Project No. 2017

Mountain Empire Unified School Disctrict

Mountain Empire Junior High School Site Modernization

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APPLICABLE CODES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH:
1. 1.1 2019 CALIFORNIA BUILDING CODE
   1.2 CALIFORNIA CODE REGULATIONS:
   TITLE 8, INDUSTRIAL CODES
   TITLE 19, PULIC SAFETY
   TITLE 21, PUBLIC WORKS
   TITLE 24, BUILDING STANDARDS
   1.3 AMERICANS WITH DISBILITIES ACT

2. ALL BARRIER FREE ITEMS SHALL COMPLY WITH TITLE 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS, 2022.

3. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED WITHOUT VIOLATIONS CODE AND REGULATION REQUIREMENTS, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.

4. PROTECTION DURING WELDING: CONFORM TO TITLE 8, C.C.R. FURTHER PROTECT OCCUPANTS AND THE GENERAL PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT.

5. DURING ENTIRE CONSTRUCTION PERIOD, IT SHALL BE BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE TO MEET THE REQUIREMENTS OF CALIFORNIA OCCUPATIONAL REGULATIONS.

6. ALL ACCESS ROADS AND FIRE HYDRANTS SHALL BE INSTALLED AND FULLY USABLE PRIOR TO LOADING THE SITE WITH CONSTUCTION MATERIALS.

7. OTHER APPLICABLE CODES AND STANDARDS:
2022 CALIFORNIA ADMINITRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2017 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
(2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 GREEN BUILDING STANDARDS CODE, (CAL GREEN), PART II, TITLE 24 C.C.R.
TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35)
NFPA 13 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS (CALIFORNIA AMENDED) 2016 ED.
NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2016 EDITION
NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISING SYSTEMS 2017 EDITION
NFPA 17A STANDARD FOR THE INSTALLATION WET CHEMICAL EXTRINGUISHING SYSTEMS 2017 EDITION
NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 EDITION
NFPS 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 EDITION
NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED), 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION
NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 EDITION
UL 300 STANDARD FOR FIRE TESTINGON FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)
UL 464 AUDIBLE SIGNALLING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 EDITION
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, and GRANDSTANDS 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR THE STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

DSA NOTES

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR).
2. A DSA CERTIFIED CLASS 1, PROJECT INSPECTOR EMPLOYEED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 C.C.R.
3. DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYEED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS.
4. GRADING PLAN, DRAINAGE IMPROVEMENT, ROADS AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPY WITH ALL LOCAL ORDINANCES.
5. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
6. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. DEFERRED APPROVALS LISTED BELOW.
7. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS INCLUDING ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR).
8. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED OR NOTCHED WITHOUT PROPER WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF STATE ACHITECT.
9. "FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33 AND CBC CHAPTER 33."

DEFERRED APPROVALS

1. DECORATIVE PRE-CAST BRIDGE
2. DIMENSIONAL LETTER SIGNAGE

PROJECT TEAM

MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT CLIENT	3291 BUCKMAN SPRINGS RD. PINE VALLEY, CA 91962 DR. PATRICK KEELEY - PATRICK.KEELEY@MEUSD.K12.CA.US JACOB MANN - JACOB.MANN@MEUSD.K12.CA.US P: (619) 473-9022
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WISEMAN & ROHY STRUCTURAL ENGINEERS STRUCTURAL	9915 MIRA MESA BLVD. #200, SAN DIEGO, CA 92131 JIM WISEMAN - JWISEMAN@WRENGINEERS.COM P: (858) 536-5166 X 314 DAVE MAESTAS - DMAESTAS@WRENGINEERS.COM P: (858) 536-5166 X 304
SALAS O'BRIEN MECHANICAL / ELECTRICAL / PLUMBING	3220 EXECUTIVE RIDGE, SUITE 210, VISTA, CA 92081 ED DAVID - ED.DAVID@SALASOBRIEN.COM P: (760) 316-5627
VELTRE ENGINEERING FIRE PROTECTION & LIFE SAFETY	2899 DICKENS ST, UNIT C-01, SAN DIEGO, CA 92106 ROMAN STAKHOVICH - RSTAKHOVICH@VELTREENGINEERING.COM P: (858) 490-9043 X 3
CONNECTED STUDIO LANDSCAPE ARCHITECT	P.O. BOX 742221, SAN DIEGO, CA 92174 FREDERICK BESANCON - FRED@CONNECTED-STUDIO.COM P: (619) 252-3071
FOOD SERVICE DESIGN GROUP FOOD SERVICE DESIGN	1202 MARKET STREET, SAN DIEGO, CA 92101 KEITH LEO - KLEO@FSDESIGNGROUP.COM P: (619) 239-8156 X119

PROJECT DATA

PROJECT ADDRESS: 3305 BUCKMAN SPRINGS RD., PINE VALLEY, CA 91962

PROPERTY OWNER: MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT 3305 BUCKMAN SPRINGS RD. PINE VALLEY, CA 91962

GROSS SITE AREA: 8 ACRES

PROJECT SCOPE:

JUNIOR HIGH SCHOOL MODERNIZATION AT MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT BUCKMAN SPRINGS CAMPUS FOR:
1. ALTERATION OF BUILDING C, P101, P102, P104 AND THE REHABILITATION OF BUILDING C. CONSTRUCTION OF A 1-STORY BOOK ROOM AND PEDESTRIAN BRIDGE.
2. NEW EXTERIOR WALL FINISH SHELL AND ROOF AND REVISED HVAC REPLACEMENT OF BUILDINGS C, P101, P102 AND P104.
3. NEW EXTERIOR BUILDING SIGNAGE, WALKWAYS AND JUNIOR HIGH SCHOOL COMMONS / LUNCH COURTYARD.
4. SITE MODERNIZATION, INCLUDING NEW FENCING, PAVING, RAMPS AND STAIRS, ACCESSIBLE PARKING, PARENT AND BUS DROP OFF FOR HIGH SCHOOL AND JUNIOR HIGH SCHOOL, CURB RAMPS, DRAINAGE, UNDERGROUND UTILITIES, LANDSCAPING & RETAINING WALLS.
5. DEMOLISH EXISTING PORTABLE P103, PATCH AND RENOVATE SITE WHERE REMOVED.
6. MODERNIZATION AND INTERIOR REMODEL OF EXISTING PORTABLE P101.
7. MODERNIZATION OF EXISTING P104 FOR JUNIOR HIGH SCHOOL WARMING KITCHEN.
8. NEW STAND ALONE ENTRY STRUCTURE AT PARKING LOT D FOR BUILDING C, AS ADD ALTERNATE.

STATEMENT OF CONFORMANCE

THE SHEETS LISTED IN THE SHEET INDEX ABOVE EXCEPT ARCHITECTURAL SHEETS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE OF CALIFORNIA. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME AND:
2. COORDINATE WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

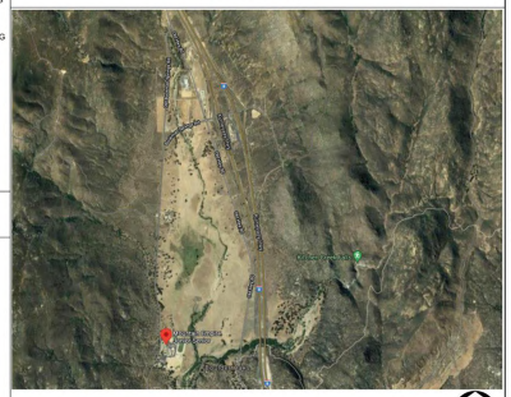
THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-334" OF ITITLE 24, PART 1, SECTION 4-317 (B)).

09/19/2022

ARCHITECT OF RECORD
AUDREY STRATTON

DATE

VICINITY MAP



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

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SVE

LICENSED ARCHITECT
AUDREY K. STRATTON
No. C35089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
—	04.29.2022	DSA SUBMITTAL
—	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

TITLE SHEET

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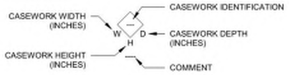

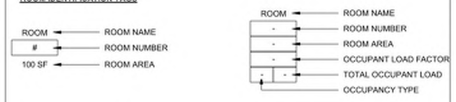

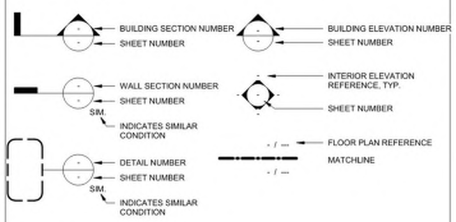

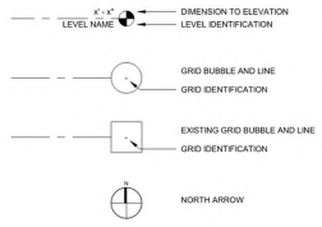

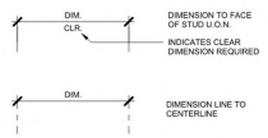

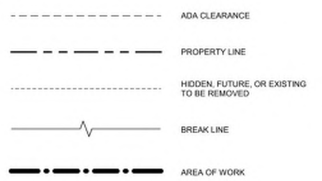

ABBREVIATIONS

'	FOOT
"	INCHES
&	AND
@	AT
℄	CENTERLINE
(E)	EXISTING
(N)	NEW
#	NUMBER OR POUND
ø	ROUND OR DIAMETER
SF	SQUARE FEET
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ACT	ACOUSTICAL TILE
ADH	ADHESIVE
AGG	AGGREGATE
A/C	AIR CONDITIONING
ALT	ALTERNATE
AL, ALUM	ALUMINUM
AB	ANCHOR BOLT
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ASPH	ASPHALT
ATT	ATTACHED
AC	ASPHALT CONCRETE PAVING
AUTO	AUTOMATIC
AVC	AVERAGE
BSMT	BASEMENT
BM	BEAM
BPL	BEARING PLATE
BEL	BELOW
BET	BETWEEN
BVL	BELEVED
BIT	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BS	BOTH SIDES
BOT	BOTTOM
BRZ	BRONZE
BLDG	BUILDING
BUR	BUILT UP ROOFING
CAB	CABINET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CK	CALK (ING), CAULK (ING)
CPT	CARPET (ED)
CSMT	CASEMENT
CIPC	CAST IN PLACE CONCRETE
CI	CAST IRON
CLG	CEILING
CHT	CEILING HEIGHT
CEM	CEMENT
CEN	CENTER
CM	CENTIMETER (S)
CER	CERAMIC
CT	CERAMIC TILE
CIR	CIRCLE
CIRC	CIRCUMFERENCE
CLR	CLEAR (ANCE)
CLO	CLOSET
CW	COLD WATER
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CX	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACT (OR)
CJ	CONTROL JOINT
CPR	COPPER
(E)	EXISTING
FOF	FACE OF FINISH
GA	GAGE, GAUGE
GALV	GALVANIZED
GKT	GASKET (ED)
GEN	GENERAL
GC	GENERAL CONTRACT (OR)
GL	GLASS, GLAZING
GLB	BLASS BLOCK
GD	GRADE, GRADING
GND	GROUND
GT	GROUT
GYP	GYPSUM
HH	HANDHOLE
HDW	HARDWARE
HWD	HARDWOOD
HDR	HEADER
HTG	HEATING
HVAC	HEATING/VENTILATION/ AIR CONDITIONING
HT	HEIGHT
HEX	HEXAGONAL
HC	HOLLOW CORE
HOR/HORIZ	HORIZONTAL
HB	HOSE BIBB
HW	HOT WATER
HR	HOUR
IN	INCH
ID	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATE (D), (ION)
INT	INTERIOR
JC	JANITOR'S CLOSET
JT	JOINT
J	JOIST
J-BOX	JUNCTION BOX
KIT	KITCHEN
KO	KNOCKOUT
LAB	LABORATORY
LAD	LADDER
LB	LAG BOLT
LAM	LAMINATE (D)
LAV	LAVORATORY
LH	LEFT HAND
L	LENGTH
LT(G)	LIGHT-(ING)
LWC	LIGHT-WEIGHT CONCRETE
LIN	LINEAR
LL	LIVE LOAD
MB	MACHINE BOLT
MH	MANHOLE
MFR	MANUFACTURE (ER)
MAS	MASONRY
MTL	MATERIAL (S)
MAX	MAXIMUM
MOE	MEANS OF EGRESS
MECH	MECHANIC (AL)
MC	MEDICINE CABINET
MED	MEDIUM
MEMB	MEMBRANE
MET	METAL
M	METER (S)
MM	MILLIMETER (S)
MWK	MILLWORK
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MOD	MODULAR
MLD	MOLDING, MOULDING
MT	MOUNT (ED), (ING)
MUL	MULLION
NAT	NATURAL
NR	NOISE REDUCTION
NOM	NOMINAL
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
P, PNT	PAINT (ED)
PNL	PANEL
PB	PANIC BAR
PAR	PARALLEL
PK	PARKING
PBD	PARTICLE BOARD
PTN	PARTITION
PERF	PERFORATE (D)
PERI	PERIMETER
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PL	PLATE
PLBG	PLUMBING
PROP	PROPERTY
PL	PROPERTY LINE
PWD	PLYWOOD
PT	POINT
PVC	PLYVINYL CHLORIDE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PCC	PRECAST CONCRETE
PFB	PREFABRICATE (D)
PFN	PREFINISHED
QTY	QUANTITY
RAD	RADIUS
REFR	REFRIGERATOR
REINF	REINFORCE (D), (ING)
REM	REMOVE
REQ	REQUIRE (D)
REV	REVISION (S), REVISED
RH	RIGHT HAND
ROW	RIGHT OF WAY
R	RISER
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RBT	RUBBER TILE
SFGL	SAFETY GLASS
SCH	SCHEDULE
SNT	SEALANT
SEC	SECTION
SHT	SHEET
SH	SHELF, SHELVING
SHR	SHOWER
SIM	SIMILAR
SKL	SKYLIGHT
SC	SOLID CORE
SP	SOUNDPROOF (ING)
S	SOUTH
SPK	SPEAKER
SPL	SPECIAL
SPEC	SPECIFICATION (S)
SQ	SQUARE
SF	SQUARE FEET
SQ IN	SQUARE INCH
SST	STAINLESS STEEL
STD	STANDARD
ST	STEEL
STO	STORAGE
SD	STORM DRAIN
STR	STRUCTURAL
SUSP	SUSPENDED
SYS	SYSTEM
TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPORARY
THK	THICK (NESS)
TPD	TOILET PAPER DISPENSER
T&G	TONGUE & GROOVE
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
TSL	TOP OF SLAB
TST	TOP OF STEEL
TW	TOP OF WALL
TR	TRANSOM
T	TREAD
TYP	TYPICAL
TFTI	TENANT FURNISHED TENANT INSTALLED
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VB	VAPOR BARRIER
VNR	VENEER
VTR	VENT THROUGH ROOF
VIF	VERIFY IN FIELD
VERT	VERTICAL
VT	VINYL TILE
WSCT	WAINSCOT
WSH	WASHER
WC	WATER CLOSET
WH	WATER HEATER
WP	WATERPROOFING
WWF	WELDED WIRE FABRIC
W	WEST, OR WIDTH, WIDE
WIN	WINDOW
WG	WIRE GLASS
WM	WIRE MESH
W/	WITH
W/O	WITHOUT
WD	WOOD
WI	WROUGHT IRON

SYMBOL LEGEND

GENERAL IDENTIFICATION TAGS

CASEWORK TAG

ROOM IDENTIFICATION TAGS

VIEW REFERENCE SYMBOLS

LOCATION SYMBOLS

DIMENSIONS

LINE STYLES

SYMBOL LEGEND

ARCHITECTURAL PLAN LEGEND

ARCHITECTURAL CEILING PLAN LEGEND

SYMBOL LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

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DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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SDVOSB

NO. C28089
REN. 05/31/23

Mountain Empire Unified
School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

ABBREVIATIONS & SYMBOLS LEGEND

G-001

9/27/2022 9:29:08 AM

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PAVEMENT MARKING NOTES

PAVEMENT MARKINGS:

- **ACCESSIBLE PARKING SPACES** SERVING A PERTICULAR BUILDING OR FACILITY SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTETO AN ENTRANCE COMPLYING WITH **CBC SECTION 11B-208.3.14**.
- ACCESSIBLE PARKING SPACES SERVING MORE THAN ONE ACCESSIBLE ENTRANCE SHALL BE DISPERSED AND LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES.
- ACCESSIBLE PARKING SPACES IN A PARKING FACILITY NOT SERVING A PERTICULAR BUILDING OR FACILITY SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY. **CBC SECTION 11B-208.3.1**.
- MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH **CBC TABLE 11B-208.2** FOR EACH PARKING FACILITY PROVIDED ON A SITE.
- FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE AN ACCESSIBLE VAN PARKING SPACE. **CBC SECTION 11B-208.2.4**
- ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL COMPLY WITH **CBC SECTION 11B-502** AND SHALL BE DIMENSIONED TO THE CENTERLINE OF THE MARKED LINES AS FOLLOWS:
    - PARKING SPACES AND AISLES SHALL BE MARKED ACCORDING TO **CBC FIGURES 11B-502.2 11B-502.3, AND 11B-502.3.3**. THEIR SURFACES SHALL COMPLY WITH **CBC SECTION 11B-302** AND SHALL BE THE SAME LEVEL, WITH SLOPES NOT STEEPER THAN 1:48 IN ANY DIRECTION. **CBC SECTION 11B-502.4**.
    - PARKING SPACES SHALL BE 9'x18' MINIMUM AND VAN PARKING SPACES SHALL BE 12'x18' MINIMUM WITH AN ADJACENT ACCESS AISLE OF 5'x18'. ACCESS AISLE SHALL BE PLACED ON EITHER SIDE OF THE STANDARD PARKING SPACES BUT ONLY ON THE PASSENGER SIDE OF THE VAN PARKING SPACES. VAN PARKING SPACES SHALL BE PERMITTED TO BE 9'x18' MINIMUM WHERE THE ACCESS AISLE IS 8'x18' MINIMUM.
    - ACCESS AISLES SHALL BE MARKED BY A BLUE PAINTED BORDERLINE AROUND THE PERIMETER. THE AREA WITHIN THE BLUE BORDERLINES SHALL BE MARKED WITH HATCHED LINES A MAXIMUM OF 36" ON CENTER IN A COLOR CONTRASTING WITH THAT OF THE AISLE SURFACE, PREFERABLY BLUE OR WHITE. ACCESS AISLE MARKINGS MAY EXTEND BEYOND THE MINIMUM REQUIRED LENGTH. **CBC SECTION 11B-502.3.3**.
    - ACCESS AISLES (ACCESSIBLE PARKING SPACES AS WELL - SIMILAR APPLICATION) SHALL NOT OVERLAP THE VEHICULAR WAY. **CBC SECTION 11B-502.5**.
    - A VEHICLE CLEARENCE OF 8'-2" MINIMUM SHALL BE PROVIDED FOR ACCESSIBLE PARKING SPACES, ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM. **CBC SECTION 11B-502.5**.

PASSENGER DROP-OFF AND LOADING ZONES:

- AT LEAST ONE PASSENGER LOADING ZONE SHALL BE PROVIDED IN EVERY CONTINUOUS100 LINEAL FEET OF LOADING ZONE SPACE OR FRACTION THEREOF, COMPLYING WITH **CBC SECTIONS 11B-209 and 11B-503** AS FOLLOWS:
    - VEHICLE PULL-UP SPACES SHALL BE 8'x20' MINIMUM.
    - ACCESS AISLES SHALL BE 5' WIDE MINIMUM x LENGTH OF VEHICLE PULL-UO SPACES THEY SERVE AND SHALL BE ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACES. THEY SHALL BE AT THE SAME LEVEL WITH EACH OTHER AND WITH SLOPES NOT STEEPER THAN 1:48 IN ANY DIRECTION. ACCESS AISLE SHALL ADJOIN AN ACCESSIBLETHE VEHICULAR WAY.
    - ACCESS AISLES FOR PASSENGER DROP-OFF AND LOADING ZONE SHALL BE MARKED WITH A PAINTED BORDERLINE AROUND THEIR PERIMETER. THE AREA WITHIN THE BORDERLINES SHALL BE MARKED WITH HATCHED LINES A MAXIMUM OF 36" ON CENTER IN A COLOR CONTRQASTING WITH THAT OF THE AISLE SURFACE. (BLUE PERIMETER LINES WITH A BLUE INTERIOR HATCH LINES ARE PREFERED FOR CONCRETE SURFACES AND BLUE PERIMETER LINES WITH WHITE INTERIOR HATCH LINES ARE PREFERED FOR ASPHALT SURFACES.) **CBC SECTION 11B-503.3.3**.
    - A VERTICAL CLEARENCE OF 9'-6" MINIMUM SHALL BE PROVIDED FOR VEHICLE PULL-UP SPACES, ACCESS AISLES, AND A VEHICULAR ENTRANCE AND A VEHICULAR EXIT. **CBC SECTION 11B- 503.5**

BUS LOADING ZONES

- BUS LOADING ZONES AND BUS STOPS SHALL COMPLY WITH **CBC SECTIONS 11B-209 AND 11B-810.2** AS FOLLOWS:
    - BUS BOARDING AND ALIGHTING AREAS SHALL BE OF 8'x5' MINIMUM, WITH 8' MEASURED PERPENDICULAR TO THE CURB OR VEHICLE ROADWAY EDGE, WITH THE 5' MEASURED PARALLEL TO THE VEHICAL ROADWAY. SLOPES IN 5' DIRECTION SHALL BE THE SAME AS THAT OF THE ROADWAY, TO THE MAXIMUM EXTENT PRACTICABLE. **CBC FIGURE 11B-810.2.2**.
    - BUS SHELTERS SHALL PROVIDE A MINIMUM 30"x48" CLEAR FLOOR OR GROUND SPACE (36"x48" OR 36"x60" IN AN ALCOVE PER **CBC 11B-305.7**), WITH SLOPES NOT STEEPER THAN 1:48 IN ANY DIRECTION, ENTIRLY WITHIN THE SHELTER COMPLYING WITH **CBC SECTION 11B-305**.
    - BUS SHELTERS SHALL BE CONNECTED BY AN ACCESSIBLE ROUTE COMPLYING WITH **CBC SECTION 11B-402** TO A BOARDING AND ALIGHTING AREA COMPLYING WITH **CBC SECTION 11B-810.2 AND FIGURE 11B-810.3**.
    - NEWLY CONSTRUCTED BUS STOP BOARDING-AND-ALIGHTING AREAS SHALL PROVIDE A DETECTIBLE TRANSITION BETWEEN BOARDING/ALIGHTING AREA AND THE ROADWAY; THE DETECTIBLE TRANSITION SHALL CONSIST OF A CURB WITH THE FACE SLOPED AT 35 DEGREES OR DETECTIBLE WARNINGS COMPLYING WITH **CBC SECTIONS 11B-705.1.1 AND 11B-705.1.2.4**.

GENERAL NOTES

1. THE GENERAL CONTRACTOR & ALL SUBCONTRACTORS SHALL CAREFULLY & THOROUGHLY EXAMINE THE PROJECT SITE, FIELD VERIFY ALL CONDITIONS, GRADES, ELEVATIONS & DIMENSIONS OF THE VARIOUS FEATURES OF THE EXISTING SITE CONDITIONS. ANY DISCREPANCIES &/OR CONDITIONS NEEDING CLARIFICATION SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT BEFORE BEGINNING WORK.

2. ALL PROPERTY LINES, EASEMENTS AND BUILDINGS, BOTH EXISTING AND PROPOSED, THAT HAVE BEEN DIVULGED TO THE ARCHITECT, ARE SHOWN ON THE SITE PLAN.

3. THE GENERAL CONTRACTOR & ALL SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR THE ENFORCEMENT OF ALL REQUIREMENTS & REGULATIONS & SHALL PERFORM ALL WORK ON THIS PROJECT IN COMPLIANCE WITH CAL O.S.H.A., THE INDUSTRIAL ACCIDENT COMMISSION OF THE STATE OF CALIFORNIA, & ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. ALL CONSTRUCTION FABRICATION & INSTALLATIONS SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE C.B.C., C.P.C., C.E.C., & ANY OTHER FEDERAL, STATE AND LOCAL CODES, REGULATIONS & ORDINANCES OF THE GOVERNING AGENCY HAVING JURISDICTION OVER THE PROJECT.

4. DUE TO THE REPROGRAPHIC PROCESS, THESE PLANS MAY NOT BE ACCURATE TO SCALE. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER THE SCALE SHOWN & IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM THE PLANS, SECTIONS, ELEVATIONS OR DETAILS.

5. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR FIRST CLASS WORK FOR THE TRADE INVOLVED. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY, IN WRITING, OF ANY ALTERNATE, NON-STANDARD, OR UNTESTED METHOD(S) PROPOSED.

6. THE STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. SHOULD THERE BE ANY DISCREPANCY BETWEEN THE VARIOUS DRAWINGS, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION.

7. THE CONTRACTOR SHALL CONSULT THE ELECTRICAL, MECHANICAL, & PLUMBING DRAWINGS FOR LOCATION OF ALL ROUGH OPENINGS THROUGH WALLS & FLOOR SLABS & NOTIFY THE ARCHITECT OF ANY ITEMS THAT DO NOT CONFORM WITH THE INTENT INDICATED ON THESE DRAWINGS.

8. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSTALLATION OF ANY SPECIAL EQUIPMENT NOT SHOWN IN THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY EQUIPMENT LOCATIONS WITH THE OWNER'S REPRESENTATIVE AND/OR EQUIPMENT MANUFACTURER FOR PROPER SIZE AND LOCATION OF FOUNDATION OR SLAB DEPRESSIONS, DRAINS, AND WARPS.

9. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE & PROTECT ANY UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED.

10. DIMENSIONS ARE TYPICAL TO FACE OF MASONRY OR CONCRETE AND TO CENTERLINE OF STUD, UNLESS OTHERWISE NOTED. LARGER SCALE DETAILS GOVERN OVER SMALLER SCALE DETAILS.

11. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL UTILITY LINES AND STUBS TO THE BUILDING(S) AS MAY BE INDICATED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO BRING ALL UTILITY LINES (WATER, SEWER, GAS AND ELECTRICAL) INTO THE BUILDING FROM POINTS AS INDICATED ON THE PLANS, READY FOR SERVICE.

12. THE CONTRACTOR SHALL COMPLY WITH SAFETY RESTRICTIONS AS REQUIRED FOR WORKERS AND PEDESTRIAN PROTECTION DURING THE ENTIRE CONSTRUCTION PROCESS.

13. RUBBISH AND DEBRIS RESULTING FROM THE WORK OF VARIOUS TRADES SHALL BE REGULATED, COLLECTED AND REMOVED FROM THE PROJECT SITE AND LEGALLY DISPOSED OF PRIOR TO DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR AN ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR, HIS SUBCONTRACTORS, OR ANY OF THEIR EMPLOYEES USE ANY AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER'S REPRESENTATIVE.

14. THE CONTRACTOR SHALL PROVIDE PROTECTION AS REQUIRED TO PREVENT ANY DAMAGE TO MATERIALS & CONSTRUCTION PREVIOUS TO & DURING CONSTRUCTION & AFTER INSTALLATION, AS WELL AS EXISTING CONSTRUCTION ADJACENT TO THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL FINISHES & MATERIALS, & FOR REPAIRING AND/OR REPLACING ALL ITEMS THAT ARE DAMAGED OR SOILED DURING CONSTRUCTION AS REQUIRED TO THE OWNER'S APPROVAL AT NO ADDITIONAL COST TO THE OWNER.

15. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CODES LISTED UNDER THE PROJECT DATA HEADING ON THIS SHEET. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH ALL CODES AND ORDINANCES, CITY OR STATE, AS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. WHERE ANY CONFLICTS OCCUR BETWEEN FEDERAL, STATE AND LOCAL LAWS, CODES, ORDINANCES, AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.

16. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF BOTH THE CALIFORNIA BUILDING CODE AND TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.).

17. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE A COMPLETE AND FINISHED PRODUCT MATCHING AND/OR ABUTTING EXISTING CONSTRUCTION IN A NEAT AND PROFESSIONAL MANNER.

18. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE LOCATION TO PREVENT DAMAGE, OR BE REPLACED AT THE CONTRACTOR'S EXPENSE.

19. THE CONTRACTOR SHALL PROVIDE WRITTEN REQUESTS FOR UTILITY SHUTDOWNS TO THE OWNER'S REPRESENTATIVE AT LEAST (7) SEVEN DAYS PRIOR TO THE EVENT. WORK REQUIRING SHUTDOWNS MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORK HOURS.

20. IF WORK ADJOINS AREAS THAT WILL BE OCCUPIED DURING CONSTRUCTION, THE CONTRACTOR AND SUBCONTRACTORS SHALL COOPERATE WITH THE OWNER TO MAINTAIN CONTINUOUS OPERATION. IF CONFLICTS OCCUR, THE INTERESTS OF THE OWNER SHALL GOVERN. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE IMPACT OF CONSTRUCTION IN AFFECTED AREAS.

21. DUST SCREENS OF EITHER PLASTIC CURTAINS OR PLYWOOD PARTITIONS SHALL BE MAINTAINED ADJACENT TO & SEPARATING AREAS OF CONSTRUCTION FROM ADJOINING OCCUPIED AREAS. SCREENS SHALL EXTEND A DISTANCE TO ALLOW WORK WITHOUT DISRUPTING THE ADEQUATE FUNCTIONING OF THE FACILITY CIRCULATION. SCREENS SHALL BE RELOCATED AS NECESSARY FOR EA. PHASE OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REP. FOR THE SCREEN LOCATIONS.

22. ALL REQUIRED EXITS FROM OCCUPIED PORTIONS OF THE BUILDING MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL ESTABLISH PROCEDURES TO MINIMIZE CIRCULATION OF CONSTRUCTION PERSONNEL AND MATERIALS THROUGH OCCUPIED PORTIONS OF THE BUILDING. THE CONTRACTOR SHALL IMMEDIATELY CLEAN DUST AND DIRT FROM CORRIDOR AREAS NOT PROTECTED BY DUST SCREENS.

23. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR ALL FIXTURES, EQUIPMENT, CASEWORK, FURNISHINGS AND ALL OTHER ITEMS AS REQUIRED, INCLUDING BUT NOT LIMITED TO: TOWEL BARS, GRAB BARS, WINDOW TREATMENT, TELEPHONE BACKBOARDS, WATER HEATERS, AND CABINETRY.

24. COMPLETED CONSTRUCTION SHALL BE CLEANED, LABELS REMOVED, & ALL OTHER TOUCH-UP COMPLETED TO THE SATISFACTION OF THE OWNER PRIOR TO FINAL ACCEPTANCE.

25. WHERE PAVING, WALKS AND/OR LANDSCAPED AREAS ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING CONDITIONS.

26. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR WILL CAUSE A DELAY IN THE CONSTRUCTION COMPLETION SCHEDULE.

27. THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOTCANDLE (11 LUX) AT THE FLOOR LEVEL ANY TIME A BUILDING IS OCCUPIED PER C.B.C. SECTION 1008.2.1. THE MEANS OF EGRESS SHALL EXTEND THE LENGTH OF THE EXIT DISCHARGE TO THE PUBLIC WAY.

28. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING TEMPORARY ELECTRICAL POWER TO THE JOB SITE FOR USE BY ALL CONSTRUCTION TRADES.

29. ALL SUBCONTRACTORS SHALL MAINTAIN THE PREMISES CLEAN AND FREE FROM ALL TRASH AND DEBRIS. THE FIXTURES, EQUIPMENT, GLAZING, FLOORS, ETC. SHALL BE LEFT CLEAN AND READY FOR EITHER THE NEXT TRADE OR OCCUPANCY.

30. NO HAZARDOUS MATERIALS SHALL BE USED OR STORED AT THE PROJECT SITE WHICH EXCEED THE QUANTITIES LISTED IN C.B.C. TABLE 414.2.2 & 414.2.5 (1)

31. AFTER THE PROJECT IS OCCUPIED, ANY CHANGE IN USE OR OCCUPANCY WHICH CAUSES AN INCREASE IN OCCUPANT LOAD SHALL COMPLY WITH ALL OF THE REQUIREMENTS FOR THE INCREASED LOAD.

32. SIDE YARDS USED FOR AREA INCREASES SHALL BE PERMANENTLY MAINTAINED.

33. THE CONTRACTOR SHALL THOROUGHLY CAULK, FLASH &/OR SEAL AROUND ALL WALL &/OR ROOF PENETRATIONS THAT ARE MADE AS PART OF THE CONTRACT WORK TO CREATE A WATERTIGHT CONDITION.

34. ALL PENETRATIONS INTO SOUND RATED PARTITIONS, FLOORS, OR CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED RESILIENT ACOUSTICAL SEALANT. ELECTRICAL DEVICES, RECESSED ITEMS, ETC. SHALL BE SEALED OR LINED TO MAINTAIN THE INTEGRITY OF THE ACOUSTIC ASSEMBLY.

35. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATIONS THROUGH FIRE RESISTIVE AREA SEPARATION AND CORRIDOR ASSEMBLIES, INCLUDING CONDUITS AND PIPING, SHALL BE TIGHTLY AND SOLIDLY SEALED WITH AN APPROVED FIRE STOPPING COMPOUND OF I.C.B.O. #1697 OR APPROVED EQUAL. WHERE SERVICES PENETRATE AN AREA SEPARATION WALL, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS THERETO SHALL BE ONLY OF METAL. FLOOR OPENINGS SHALL BE ENCLOSED BY A RATED SHAFT OF FIRE RESISTIVE CONSTRUCTION AS REQUIRED BY C.B.C. TABLE 716.1, SECTION 716.

36. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE SEALED W/ A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF A.S.T.M. E-814 AND AS PRESCRIBED IN STATE FIRE MARSHAL STANDARD 43-1.
USE 3M / UL SYSTEM #147 OR ARCHITECT APPROVED EQUAL.

37. IN BUILDINGS OTHER THAN DWELLING OR HOTEL OCCUPANCIES HAVING FLOORS AND ROOFS OF WOOD FRAME CONSTRUCTION, A DRAFT STOP SHALL BE PLACED IN THE AREA BETWEEN THE CEILING AND THE FLOOR ABOVE SO THAT NO CONCEALED SPACE EXCEEDS 1,000 SF AND NO HORIZONTAL DIMENSION EXCEEDS 60 LF (IF THE SPACE IS SPRINKLERED, THEN 3,000 SF AND 100 LF RESPECTIVELY).

38. ALL OPENINGS IN 1-HOUR CORRIDOR WALLS AND CEILINGS ARE TO BE PROTECTED. DOORS AND FRAMES MUST BE LABELED 20-MINUTE, WITH SMOKE AND DRAFT CONTROL ASSEMBLIES AND SELF-CLOSERS OR AUTOMATIC CLOSERS WITH SMOKE DETECTORS. GLAZING MUST BE 1/4" THICK WIRED GLASS INSTALLED IN STEEL FRAMES, AREA NOT TO EXCEED 25% OF THE AREA OF THE COMMON WALLS.

39. ALL EXIT DOORS ARE TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED (ALSO APPLIES TO GATES).

40. THE MAXIMUM EFFORT REQUIRED TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS, AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO 15 LBS WHEN ALLOWED
BY AUTHORITY HAVING JURISDICTION.

41. ALL DOORS LEADING TO ACCESSIBLE RESTROOMS SHALL HAVE RAISED TRIANGLE AND CIRCLE IDENTIFICATION SYMBOLS PER C.B.C. SECTION 11B-703.

GENERAL NOTES CONTINUED

42. THE MAXIMUM UNDERCUT OF ALL DOORS SHALL NOT EXCEED 1/2" ABOVE THE FINISHED FLOOR SURFACE. CONTRACTOR TO VERIFY ALL FLOOR FINISHES.

43. ALL DOOR HARDWARE TO BE LEVER-TYPE PER STATE OF CALIFORNIA AND SHALL BE INSTALLED @ 3'-0" A.F.F., UNLESS OTHERWISE NOTED.

44. PROVIDE FLOOR MOUNTED STOPS, 4" MAX. FROM WALL FOR ALL DOORS UNLESS OTHERWISE NOTED.

45. ALL PRIMARY ENTRANCES TO THE BUILDING SHALL BE ACCESSIBLE PER C.B.C. CHAPTER 11. BUILDING ENTRANCES SHALL BE IDENTIFIED BY SIGN WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, A WHITE FIGURE ON A BLUE BACKGROUND, PER C.B.C. SECTION 11B-703.7.2.1.

46. THE PATH OF EXIT TRAVEL SHALL BE IDENTIFIED BY EXIT SIGNS PER C.B.C. SECTION 1013.1 & 11B-703. EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF APPROACH. EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EXIT TRAVEL. ALL EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED WITH MINIMUM 6" HIGH LETTERS PER C.F.C. SECTION 12.108(a) AND C.B.C. SECTION 1013.5. THE CONTRACTOR SHALL COORDINATE LOCATION OF ALL EXIT SIGNS WITH ARCHITECT.

47. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM PER C.B.C. SECTION 1013.6.3 WITH THE EXCEPTION OF AN APPROVED SELF-LUMINOUS EXIT SIGN THAT PROVIDES CONTINUOUS ILLUMINATION INDEPENDENT OF AN EXTERNAL POWER SOURCE. THE COLOR AND DESIGN OF LETTERING, ARROWS AND OTHER SYMBOLS ON EXIT SIGNS SHALL BE IN HIGH CONTRAST WITH THEIR BACKGROUND PER C.B.C. SECTION 1013.6.1.

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

THIS PROJECT HAS ONE OR MORE OF THE FOLLOWING ELEMENTS THAT REQUIRES COMPLIANCE WITH CALGREEN SECTION 301.4 AND 5.106.12: NEW SURFACE PARKING AREAS, NEW LANDSCAPE AREAS, NEW HARDSCAPE AREAS.

PROVIDE A LANDSCAPE PLANTING PLAN WITH THE LOCATION OF SHADE TREES CLEARLY INDICATED ON THE PLANTING PLAN ALONG WITH A LEGEND IDENTIFYING THE TYPE AND SIZE OF TREES TO BE INSTALLED. IN ADDITION, PROVIDE ALL NECESSARY INFORMATION FOR COMPLIANCE, INCLUDING IRRIGATION DRAWINGS, AND A DSA 1-L AND RELATED DOCUMENTATION.

PRIOR TO BACK CHECK, UPLOAD THE NECESSARY DOCUMENTATION REQUIRED FOR COMPLIANCE TO CALGREEN SECTION 5.106.12. REFER TO THE DSA GL-4 PROJECT SUBMITTAL GUIDELINE: CALGREEN CODE FOR MORE INFORMATION. PROJECT WILL NOT CLEAR BACK CHECK WITHOUT THE NECESSARY INFORMATION PROVIDED FOR CALGREEN COMPLIANCE.

ASSISTIVE LISTENING SYSTEM NOTES

1. ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH CDC SECTION 11B-219 AND SHALL COMPLY WITH **CBC SECTION 11B-706**.
2. **PER CBC SECTION 11B-219.3**, THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO. 25% MINIMUM OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING-AID COMPATABLE IN ACCORDANCE WITH **CBC SECTION 11B-706.3**.
3. IF THE SYSTEM PROVIDED IS LIMITED TO SPECIFIC AREAS, THAN SUCH AREAS OR SEATS SHALL BE WITHIN A 50-FOOT VIEWING DISTANCE OF, AND HAVE A COMPLERTE VIEW OF, STAGE OR PLAYING AREA. **CBC SECTION 11B-219.4**.

PER APRIL 2020 CODE APPEAL INTERPRETATION, SCHOOL FACILITIES MAY USE THE FOLLOWING ALTERNATE PROVISION; FOR EACH SCHOOL, PROVIDE TWO PORTABLE ASSISTIVE LISTENING SYSTEMS, EACH WITH A TRANSMITTER AND A MINIMUM OF 2 RECEIVERS FOR USE IN CLASSROOMS WITHOUT AUDIO AMPLIFICATION. THE ASSISTED LISTENING RECEIVERS AND TRANSMITTER SHALL BE STORED IN THE SCHOOL SITE ADMINISTRATION OFFICE UNTIL REQUESTED. IN ADDITION, PROVIDE AN ASSISTED LISTENING SYSTEM FOR ASSEMBLY AREAS SUCH AS MULTI-PURPOSE ROOMS, CAFETERIAS, LECTURE HALLS OR OTHER ASSEMBLY AREAS. IF THE ROOM HAS NO FIXED SEATING, CALCULATE THE NUMBER OF SEATS USING 7SF PER OCCUPANT. PROVIDE 4% OF ASSISTED LISTENING RECEIVERS FOR A TOTAL NUMBER OF SEATS IN EACH ASSEMBLY AREA, BUT NO LESS THAN 2. THE ASSISTIVE LISTENING RECEIVERS SHOULD BE STORED IN OR NEAR THE ASSEMBLY AREA.

GENERAL CONDITIONS

1. THE SPECIFICATIONS SHALL INCLUDE AIA GENERAL CONDITIONS OR LOCAL DISTRICT/OWNER CONDITIONS.
2. THE SPECIFICATIONS MUST INCLUDE:
    a. CCD/CHANGE ORDERS. (SECTION 4-338(C), PART 1)
    b. SUBSTITUTIONS
    c. FIELD CHANGE DOCUMENTS (PRELIMINARY CHANGE ORDERS, SECTION 4-338(D), PART 1)

SUPPLEMENTARY CONDITIONS

1. COMPLIANCE WITH TITLE 24, CCR, PARTS 1-6 AND 9
2. TITLE 24, CCR, PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
3. ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA. (SECTION 4-338(B), PART 1).
4. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED A CHANGE ORDER OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (IR A-6)(SECTION 4-338(C)(D), PART 1) SUBSTITUTIONS SHALL BE FOR ANY MATERIAL, SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
5. THE CHANGE ORDERS/CCD AND FIELD CHANGE DOCUMENTS (PRELIMINARY CHANGE ORDERS)(SECTION 4-338(C)(D), PART 1) MUST BE SIGNED BY ALL THE FOLLOWING:
    a. A/E OF RECORD
    b. OWNER (CHANGE ORDERS ONLY)
    c. STRUCTURAL ENGINEER (WHEN APPLICABLE)
    d. DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE) AND SHALL BE SUBMITTED TO AND APPROVED BY DSA.
6. THE PROJECT INSPECTOR AND TESTING LAB SHALL BE EMPLOYED AND PAID BY THE OWNER AND APPROVED BY ALL THE FOLLOWING:
    a. A/E OF RECORD
    b. STRUCTURAL ENGINEER (WHEN APPLICABLE)
    c. DSA
7. FOR ALTERATIONS, REHABILITATION OR RECONSTRUCTION AS STATED IN TITLE 24, PART 1 SECTION 4-317(C) OR SIMILAR MEANING: "THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK."

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY
ARCHITECTURE
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1053 TENTH AVENUE
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SDVOSB

LICENSED ARCHITECT
AUDREY V. STRATTON
NO. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

GENERAL NOTES

G-002

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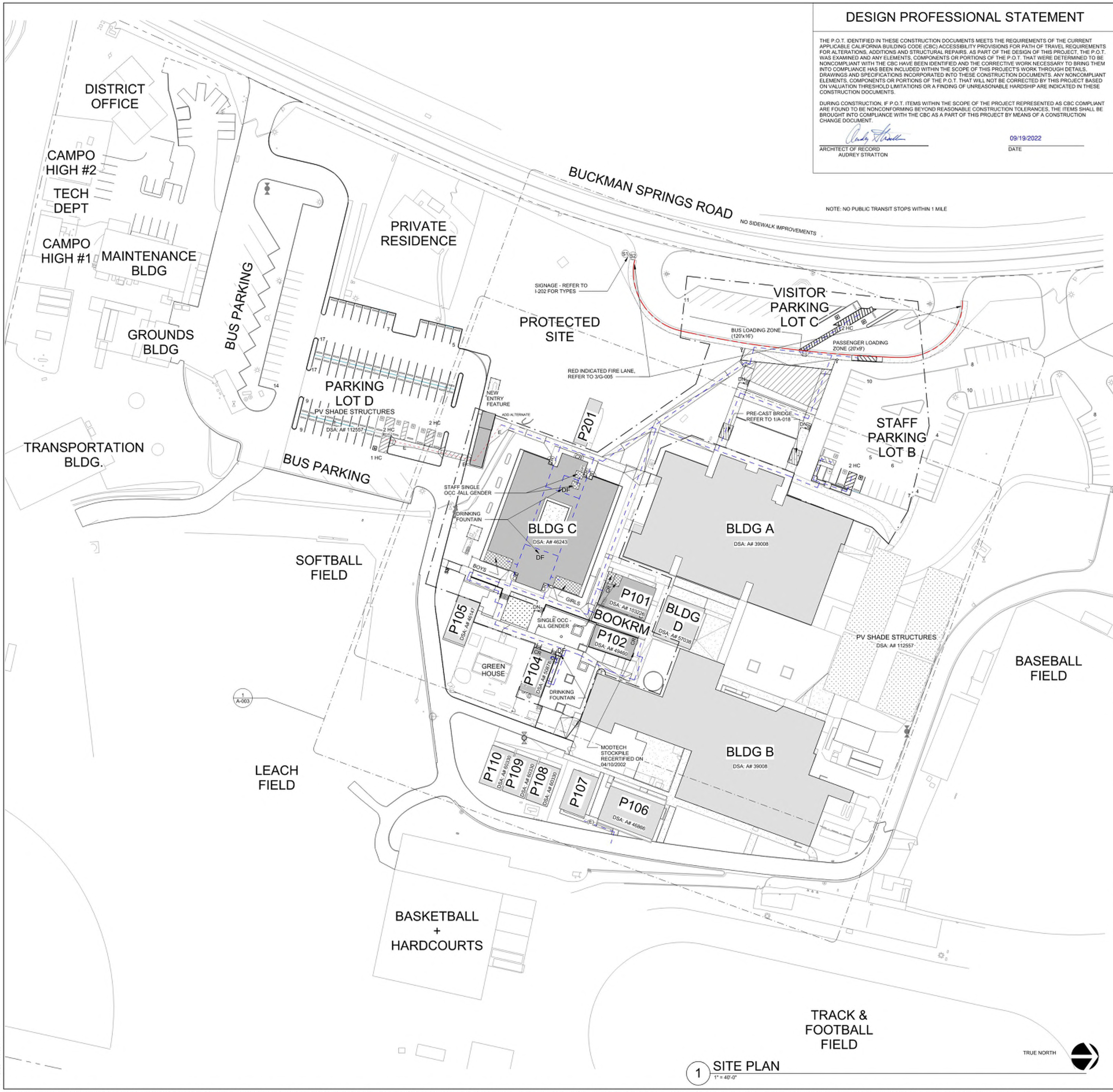

1 SITE PLAN
1" = 40'-0"

DESIGN PROFESSIONAL STATEMENT

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ARCHITECT OF RECORD
AUDREY STRATTON

DATE 09/19/2022

PARKING COUNT

REQUIRED ACCESSIBLE STALLS (TABLE 11B-208.2)

1 - 25 =	1	101 - 150 =	5
26 - 50 =	2	151- 200 =	6
51 - 75 =	3	201 - 300 =	7
76 - 100 =	4	301 - 400 =	8

1 PER 6 (OR FRACTION) TO BE VAN ACCESSIBLE

LOT "A" - STUDENT PARKING = 98 TOTAL STALLS
4 ACCESSIBLE REQUIRED (1 VAN)
94 STANDARD STALLS PROVIDED
4 ACCESSIBLE STALLS PROVIDED (2 VAN)

LOT "B" - STAFF PARKING = 57 TOTAL STALLS
3 ACCESSIBLE REQUIRED (1 VAN)
54 STANDARD STALLS PROVIDED
3 ACCESSIBLE STALLS PROVIDED (1 VAN)

LOT "C" - VISITOR PARKING = 15 TOTAL STALLS
1 ACCESSIBLE REQUIRED (1 VAN)
13 STANDARD STALLS PROVIDED
2 ACCESSIBLE STALLS PROVIDED (1 VAN)

LOT "D" - STAFF PARKING = 84 TOTAL STALLS
4 ACCESSIBLE STALLS REQUIRED (1 VAN)
78 STANDARD STALLS PROVIDED
6 ACCESSIBLE STALLS PROVIDED (3 VAN)

IDENTIFICATION STAMP
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APP: 04-121018 INC:
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DAVY ARCHITECTURE
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SDVOSB

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

SITE LEGEND

- ACCESSIBLE RESTROOM
- LIMITS OF WORK
- (E) EXISTING ACCESSIBLE PATH OF TRAVEL
- ACCESSIBLE PATH OF TRAVEL
- (N) FIRE HYDRANT LOCATION
- (E) FIRE HYDRANT LOCATION
- DF DRINKING FOUNTAIN
- BUILDING IN SCOPE OF WORK
- BUILDING NOT IN SCOPE OF WORK
- SAFE DISPERSAL AREA REFER TO G-005 FOR ADDITIONAL INFORMATION

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

PATH OF TRAVEL NOTES

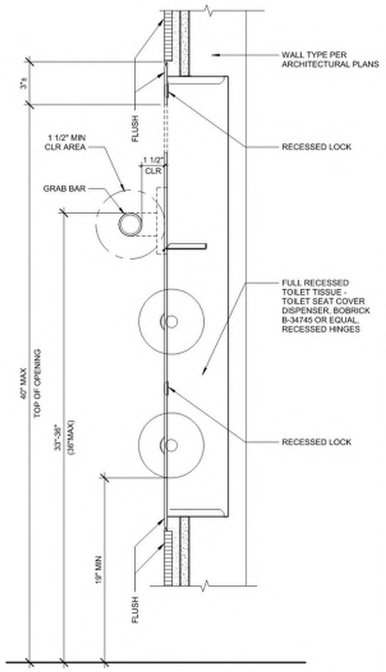
1. PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:20, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL AND IS AT LEAST 48" WIDE. SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM ABOVE FINISH GRADE (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" MAX PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2). PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING WALK SURFACES IN P.O.T. ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T. AND P.O.T. COMPLY WITH SECTION 11B-206.
2. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED TO A LEVEL OF NOT LESS THAN ONE FOOT-CANDLE AT THE WALKING SURFACE AT ALL TIMES WITHIN THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS OCCUPIED (SECTION 1008.2).
3. GRADE LEVEL AREAS DESIGNATED AS EXIT DISCHARGE COMPONENTS FOR THE BUILDING SHALL BE PERMANENTLY MAINTAINED. SUCH AREAS SHALL NOT BE DEVELOPED OR OTHERWISE ALTERED IN THEIR CAPACITY TO PROVIDE CONTINUOUS, UNOBSTRUCTED AND UNDIMINISHED MEANS OF EGRESS FOR THE BUILDING OCCUPANT. IF SUCH AREAS ARE SOLD INDEPENDENT OF THE BUILDING THEY SERVE, AN EXIT DISCHARGE COMPLYING WITH THE REQUIREMENTS OF 2019 CBC SECTION 1005 SHALL BE PROVIDED FOR THE BUILDING.

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

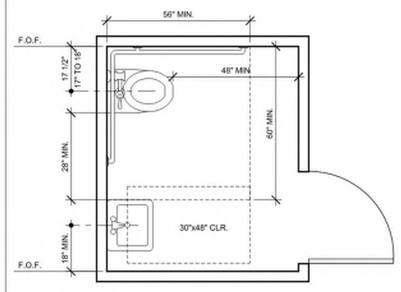
SITE PLAN

G-003

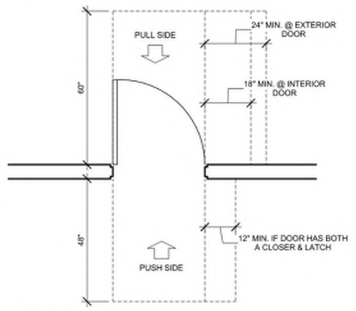
10/11/2022 1:03:56 PM



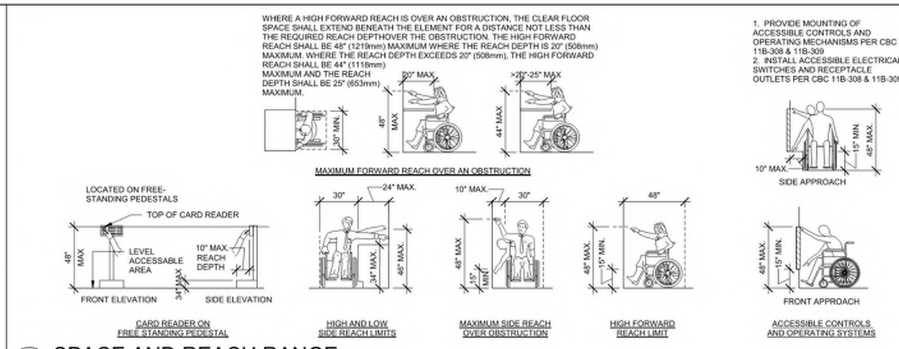
8 GRAB BAR @ FLUSH ACCESS'RY
3" = 1'-0"



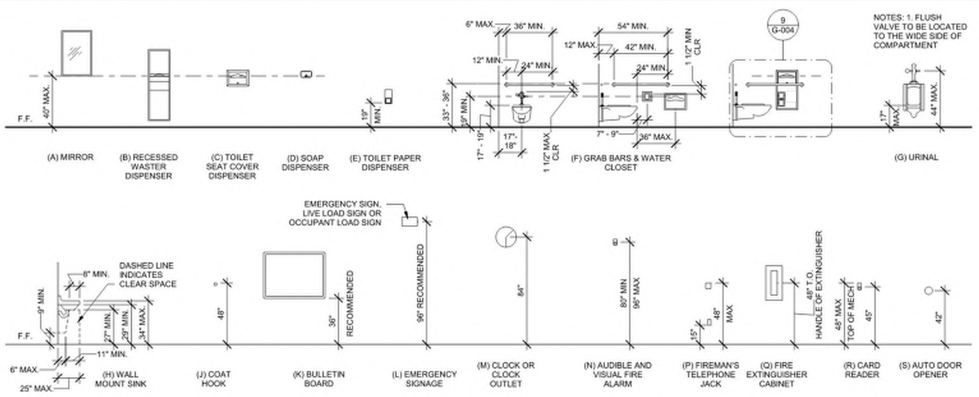
6 ACCESSIBLE RESTROOM
1/2" = 1'-0"

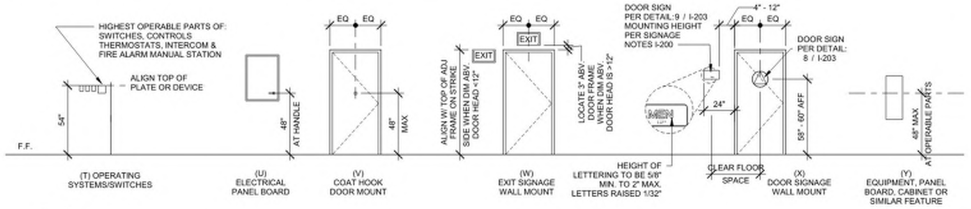


7 DOOR CLEARANCE
1/2" = 1'-0"



2 SPACE AND REACH RANGE
1/4" = 1'-0"





NOTES:

1. REFER TO SIGNAGE NOTES SHEET I-200 FOR LETTERING REQUIREMENTS.
2. REFER TO I-5-203 FOR BRAILE INFORMATION.
3. REFER TO RAISED CHARACTERS, BRAILLE AND VISUAL CHARACTERS FOR ADDITION INFORMATION

3 STANDARD MOUNTING HEIGHTS
1/4" = 1'-0"

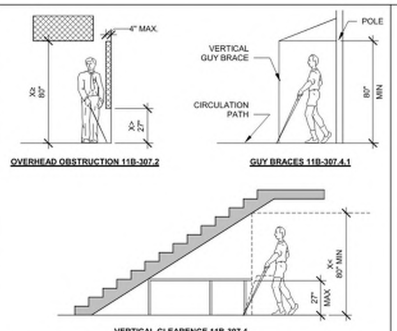
9 GRAB BAR @ FLUSH ACCESSORY ELEVATION
1 1/2" = 1'-0"

RAISED CHARACTERS, BRAILLE AND VISUAL CHARACTERS

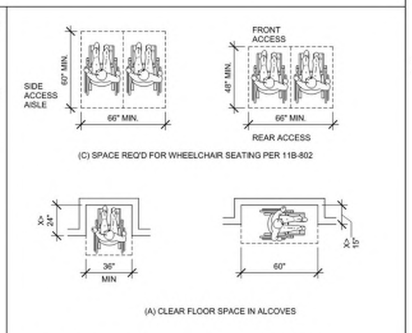
- TACTILE SIGNS SHALL BE LOCATED PER CBC SECTION AND FIGURE 11B-703.4.2 AS FOLLOWS:
  ALONG SIDE A SINGLE DOOR AT THE LATCH SIDE.
  ON THE INCATIVE LEAF AT DOUBLE DOORSWITH ONE ACTIVE LEAF.
  TO THE RIGHT OF THE RIGHT HSANDED DOOR AT DOUBLE DOORS WITH TWO ACTIVE LEAF.
  ON THE NEAREST ADJACENT WALL WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS WITH TWO ACTIVE LEAFS.
  SO THAT A CLEAR FLOOR SPACE OF 18"x18" MINIMUM CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45° OPEN POSITION.
- VISUAL CHARACTERS SHALL COMPLYWITH CBC SECTION 11B-703.5 AND SHALL BE 40" MINIMUM ABOVE FINISH FLOOR OR GROUND. CHARACTER HEIGHT SHALL BE DETERMINED BASED UPON HEIGHT ABOVE GROUND AND HORIZONTAL VIEWING DISTANCE PER CBC TABLE 11B-703.5.5
- PROPORTIONS FOR VISUAL CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTIONS 11B-703.5.4 & 11B-703.5.7
- PICTOGRAMS SHALL COMPLY WITH CBC SECTION 11B-703.6
- SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH CBC SECTION 11B-703.7
- VARIABLE MESSAGE SIGNS SHALL COMPLY WITH CBC SECTION 11B-703.8

RAISED CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.2:

- CHARACTERS SHALL BE RAISED 1/32" (0.8mm) MINIMUM ABOVE THEIR BACKGROUND, SHALL BE SANS SERIF UPPERCASE LETTERS AND BE DUPLICATED IN BRAILLE.
- CHARACTER HEIGHT SHALL BE 5/8" (15.9mm) MINIMUM AND 2" (51mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC SECTION 11B-703.2.5.
- CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTER SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DSARK CHARACTERS ON A LIGHT BACKGROUND. CBC SECTION 11B-703.5.1.
- PROPORTIONS FOR RAISED CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC 11B-703.2.4 & 11B-703.2.6.
- CHARACTER SPACING BETWEEN INDIVIDUAL LETTERS RAISED CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.2.7.
- LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN THE MESSAGE SHALL BE 135% MINIMUM & 170% MAXIMUM OF THE RAISED CHARACTER HEIGHT. CBC SECTION 11B-703.2.8
- TEXT SHALL BE IN HORIZONTAL FORMAT. CBC SECTION 11B-703.2.9.
- BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3 AND 11B-703.4. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE AND FIGURE 11B-703.3.1. REFER TO I / I-202
- TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MINIMUM TO THE BASELINE TO THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. CBC SECTION AND FIGURE 11B-703.4.1
- THE INDICATION OF AN UPPERCASE BRAILLE LETTER OR LETTERS SHALL BE USED BEFORE THE FIRST WORK SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS



5 PROTRUDING OBJECTS
1/4" = 1'-0"



4 WHEELCHAIR CLEARANCE
1/4" = 1'-0"

GENERAL NOTES:

1. DETAILS INCLUDED ON THIS SHEET ARE NOT PROJECT SPECIFIC. DETAILS ARE GENERAL AND MAY NOT APPLY TO THIS DRAWING PACKAGE. THESE DETAILS ARE SUPPLEMENTAL TO WORK INDICATED ON PLAN AND DRAWINGS.
2. PROVIDE BACKING PLATE PER DETAIL 23/AE504 & 24/AE504 FOR ALL HANDRAIL BRACKETS, GRAB BARS, BENCHES, AND ALL OTHER WALL MOUNTED ITEMS WHERE DETAILED OR CALLED FOR.

DOORS SHALL PROVIDE A CLEAR WIDTH OF 32" MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES (11B-404.2.3).

HARDWARE: OPERABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. MOUNTED 34" TO 44" ABOVE FINISH FLOOR. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS (22.2 N) MAXIMUM.

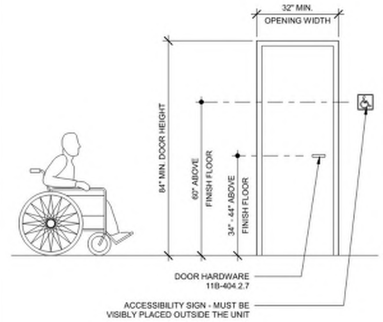
THRESHOLDS, IF ANY, SHALL BE 1/2" HIGH MAXIMUM. (11B-404.2.5).

DOOR HARDWARE CAN BE OPERATED WITH A CLOSED FIST OR A LOOSE GRIP TO ACCOMMODATE GREAT RANGE OF USERS.

DOORS SURFACE WITHIN 10" FROM FINISH FLOOR OR GROUND VERTICALLY MEASURED SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATE SHALL BE CAPPED (11B-404.2.10).

MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING PER THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, TITLE 24, 1010.1.3 AND 11B-404.2.9.

A.	INTERIOR DOORS	-	5 POUNDS
B.	EXTERIOR DOORS	-	5 MOUNTED
C.	FIRE DOORS	-	15 POUNDS

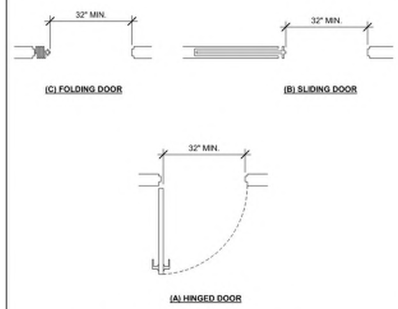


ACCESSIBLE RAMPS SHALL BE PER 11B-405

ADA RAMP

11B-404.2.2. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 11B-404.2.3. CLEAR WIDTH AND 11B-404.2.4. MANEUVERING CLEARANCES.

11B-404.2.3. CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32" (813 MM) MIN.. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOOR SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENING MORE THAN 24" (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36" (914 MM) MIN.. THERE SHALL BE NO PROJECTIONS INTO REQUIRED CLEAR OPENING WIDTH LOWER THAN 34" (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO CLEAR OPENING WIDTH BETWEEN 34" (864 MM) AND 80" (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4" (102 MM).



1 DOOR REQUIREMENTS
1/2" = 1'-0"

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

LICENSED ARCHITECT AUDREY V. STRATTON NO. C28089 REN. 05/31/23 STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

ACCESSIBILITY DETAILS

G-004

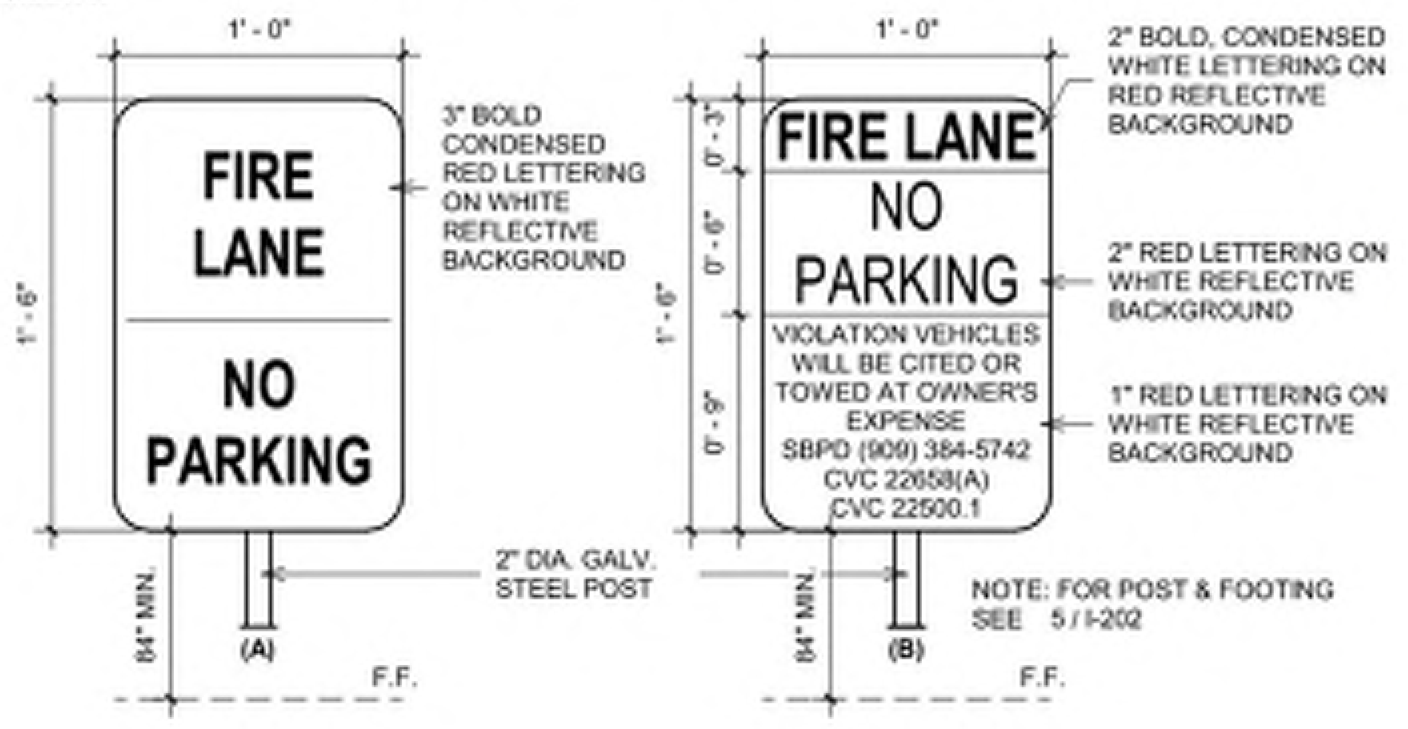
10/10/2022 1:56:15 PM

NOTE:

1. OWNERS AND / OR PROPERTY REPRESENTATIVES SHALL POST THE ENTRANCE TO THE REQUIRED ROADWAY WITH THE APPROVED SIGN. SIGNS SHALL THEN BE PLACED EVERY 100' FACING TRAFFIC AT A HEIGHT OF 7'. PLACEMENT VARIATIONS AND ALTERNATIVE SIGN DESIGNS SHALL BE SUBJECT TO WRITTEN APPROVAL BY THE FIRE MARSHALL HAVING JURISDICTION.

2. ALL CURBING WHICH OUTLINES THE ACCESS ROADWAY SHALL BE PAINTED RED. WHITE 4" HIGH LETTERING READING " NO PARKING - FIRE LANE" SHALL BE STENCILED EVERY 30' ON THE RED CURB. IF NO CURB IS PRESENT AN 8" WIDE RED STRIPE SHALL BE PAINTED ON THE PAVEMENT. THIS 8" STRIPE SHALL BE MARKED WITH 4" LETTERING EXACTLY AS IF IT WER A CURB. SEE 3 / G-005 FOR ADDITIONAL INFORMATION

3. PERIODIC MAINTENANCE ON ALL SIGNS, RED CURBING, AND WHITE LETTERING SHALL BE DONE TO ENSURE VISIBILITY.



2 FIRE LANE SIGN
1 1/2" = 1'-0"

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.	X			
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.			X	
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.	X			
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.			X	
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.		X		
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	X			
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			X	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.			X	

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Gary Hobelman Title: Assistant Superintendent of Business

Signature: [signature] Date: 4/14/2022

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: SAN DIEGO COUNTY FIRE PROTECTION DISTRICT	
LFA Review Official: DAVID SIBBET	
Title: DEPUTY FIRE MARSHAL	Work Phone: 619-672-7112
Work Email: david.sibbet@sdcounty.ca.gov	

LFA Reviewer's Signature: [signature] Date: 2/8/22

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings.*

PROJECT INFORMATION
School District/Owner: Mountain Empire Unified School District
Project Name/School: MEUSD Whole School Modernization
Project Address: 3305 Buckman Springs Rd, Pine Valley, CA 91962

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☑		No ☐
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☑
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☑

GENERAL NOTES

1. FIRE APPARATUS ACCESS ROADS AND WATER SUPPLIES FOR FIRE PROTECTION, SHALL BE INSTALLED AND MADE SERVICABLE PRIOR TO AND DURING TIME OF CONSTRUCTION. CFC 501.4
2. STREET OR ROAD SIGNS - TEMPORARY ROAD SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES. SIGNS SHALL BE OR AN APPROVED SIZE, WEATHER RESISTANT AND BE MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS. CFC 505.2
3. PROVIDE BUILDING ADDRESS NUMBERS, VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY PER FHPS P-00-6
4. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS AND SHALL BE SURFACES SO AS TO PROVIDE ALL WEATHER DRIVING CAPABILITIES.
5. PROVIDE FIRE ACCESS ROADWAY SIGNS OR RED CURBS IN ACCORDANCE WITH FHPS POLICY A-08-1
6. POST INDICATOR VALVES, FIRE DEPARTMENT CONNECTIONS, AND ALARM BELL ARE TO BE LOCATED ON THE ADDRESS/ACCESS SIDE OF THE BUILDING.
7. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS, EXCEPT AS OTHERWISE REQUIRED OR APPROVED.
8. WHERE FIRE HYDRANTS ARE SUBJECT TO IMPACT BY A MOTOR VEHICLE, GUARD POSTS OR OTHER APPROVED MEANS SHALL COMPLY WITH SECTION 312
9. DEAD-END FIRE APPARATUS ACCESS ROADS IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED AREA FOR TURNING AROUND FIRE APPARATUS. CFC 503.2.5
10. WHERE SECURITY GATES ARE INSTALLED, THEY SHALL HAVE AN APPROVED MEANS OF EMERGENCY OPERATION. THE SECURITY GATES AND EMERGENCY OPERATION SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES. ELECTRIC GATE OPERATORS, WHERE PROVIDED, SHALL BE LISTED IN ACCORDANCE WITH UL 325. GATES INTENDED FOR AUTOMATIC OPERATION SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ASTM F 2200.
11. VEGETATION SHALL BE SELECTED AND MAINTAINED IN SUCH A MANNER AS TO ALLOW IMMEDIATE ACCESS TO ALL HYDRANTS, VALVES, FIRE DEPARTMENT CONNECTIONS, PULL STATIONS, EXTINGUISHERS, SPRINKLER RISERS, ALARM CONTROL PANELS, RESCUE WINDOWS AND OTHER DEVICES OR AREAS USED FOR FIREFIGHTING PURPOSES. VEGETATIONS OR BUILDING FEATURES SHALL NOT OBSTRUCT ADDRESS NUMBERS OR INHIBIT THE FUNCTIONING OF ALARM BELLS, HORNS OR STROBES.
12. FIRE ACCESS SHALL NOT BE OBSTRUCTED BY PLAYGROUND EQUIPMENT OR SIMILIAR
13. ANY FUTURE MODIFICATION TO THE APPROVED FIRE MASTER PLAN OR APPROVED SITE PLAN INCLUDING BUT NOT LIMITED TO ROAD WIDTH, GRADE, SPEED BUMPS, TURNING RADII, GATED OR OTHER OBSTRUCTION SHALL REQUIRE REVIEW INSPECTION AND APPROVALBY THE FIRE DEPARTMENT.
14. THIS PROJECT MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS NOT STATED HERE UPON EXAMINATION OF ACTUAL SITE AND PROJECT CONDITIONS OR DISCLOSURE OF ADDITIONAL INFORMATION.

FIRE NOTES

1. STRUCTURES IN THE COURSE OF CONSTRUCTION, ALTERATION OR DEMOLITION, INCLUDING THOSE IN UNDERGROUND LOCATIONS SHALL BE IN ACCORDANCE TO 2019 CFC CH. 33.

2. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISABLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY (2019 CFC SEC. 505.1 FHPS POLICY P-00-6.

3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME RETARDANT CONDITION. (CAL CODE REGS., TITLE 19, SEC 1173 & 1174, CFC SEC. 801.

4. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A:20-B:C SHALL BE PROVIDED WITHIN 75' MAXIMUM TRAVEL DISTANCE FROM PUMPS, DISPENSERS OR STORAGE TANK FILL-PIPE OPENINGS. (CFC SEC. 2305.5, CAL. CODE REGS. TITLE 19, 3.29.)

5. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS: FIRE-EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND WET & DRY STANDPIPES; HALON SYSTEMS AND OTHER SPECIAL TYPES OF FIRE-EXTINGUISHING SYSTEMS; BASEMENT PIPE INLETS AND OTHER FIRE-PROTECTION SYSTEMS AND APPURENTANCES THERETO SHALL BE SUBMITTED TO FIRE AND HAZARD PREVENTION SERVICES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. (CFC SEC. 901.2.)

6. FIRE EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH 2019 CBC SEC. 906.9.1 THROUGH 906.9.3.

7. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, TANKS, WATER LEVELS, AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATER FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRONICALLY SUPERVISED BY A LISTED FIRE ALARM CONTROL UNIT. (CBC SEC. 903.3.4.)

8. FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITHCFC SEC. 907.

9. AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 4-A:20-B:C SHALL BE PROVIDED OUTSIDE EACH MECHANICAL, ELECTRICAL, OR BOILER ROOM. (2019 CFC SEC. 906.1, CAL CODE REGS., TITLE 19, SEC. 3.29.)

10. FIRE PROTECTION, INCLUDING FIRE APPARATUS ACCESS ROADS AND WATER SUPPLIES FOR FIRE PROTECTION, SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING TIME OF CONSTRUCTION. (CFC SEC. 501.4 AND 503)

11. FIRE HYDRANTS SYSTEMS SHALL COMPLY IN ACCORDANCE WITH CFC SEC. 507.1-507.5.6 AND APPENDIX C.

12. PROVIDE A KEY BOX IN AN APPROVED LOCATION (2019 CFC SEC. 506.1, FHPS POLICY K-00-2.)

13. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BEFORE PROCEEDING WITH THE REPAIR WORK. (CAC, 2022, 4-317 (C).)

FIRE NOTES

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH CFC CHAPTER 33 "FIRE SAFETY" DURING CONSTRUCTION AND DEMOLITION.

2. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION SHOULD BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR SEPARATE SET OF PLANS AND SPECIFICATION DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

3. PAINT FIRE HYDRANTS YELLOW COLOR.

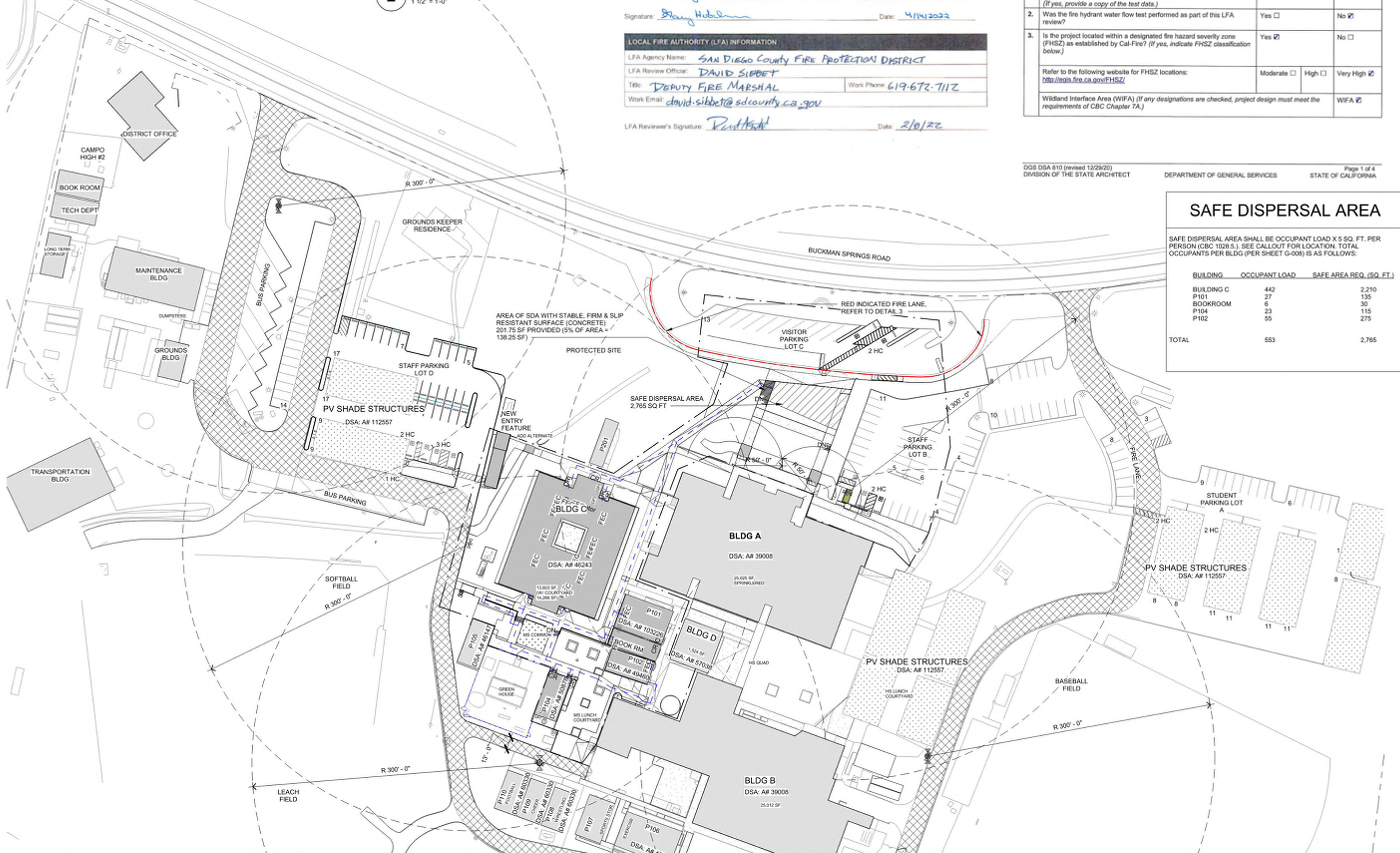
4. PROVIDE BLUE REFLECTIVE PAVEMENT MARKERS (BLUE DOTS) AT 6 INCHES FROM THE EDGE OF THE PAINTED CENTERLINES OR FROM THE APPROXIMATE CENTER OF THE STREETS WITHOUT A PAINTED CENTERLINE ON THE SIDE NEAREST THE HYDRANT.

5. SITE INSPECTIONS ARE REQUIRED FOR THIS PROJECT. SCHEDULE ALL FIELD INSPECTIONS AT LEAST 24 HOURS IN ADVANCE.

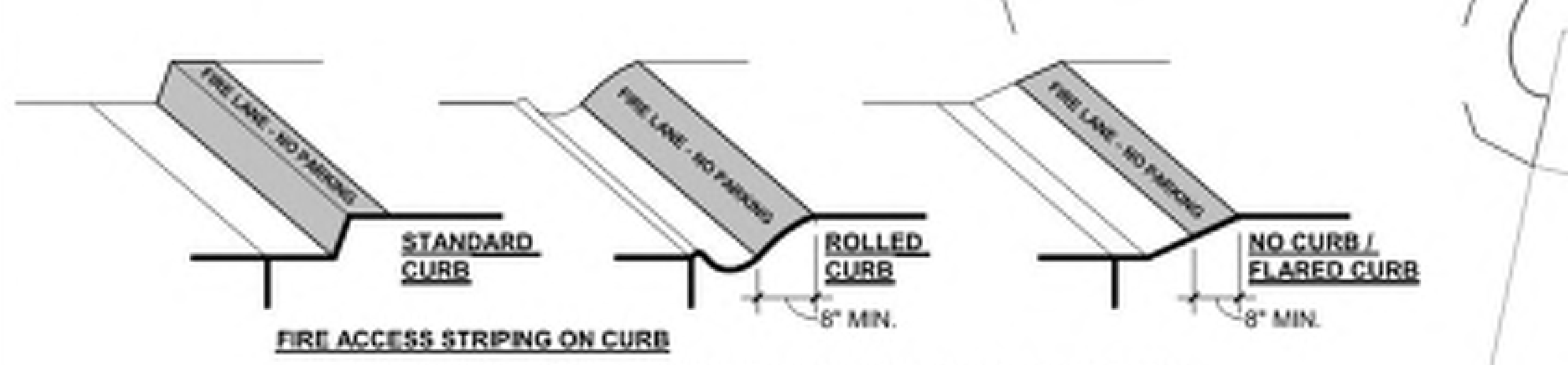
SAFE DISPERSAL AREA

SAFE DISPERSAL AREA SHALL BE OCCUPANT LOAD X 5 SQ. FT. PER PERSON (CBC 1028.5.). SEE CALLOUT FOR LOCATION. TOTAL OCCUPANTS PER BLDG (PER SHEET G-008) IS AS FOLLOWS:

BUILDING	OCCUPANT LOAD	SAFE AREA REQ. (SQ. FT.)
BUILDING C	442	2,210
P101	27	135
BOOKROOM	6	30
P104	23	115
P102	55	275
TOTAL	553	2,765



1 SITE PLAN - FIRE ACCESS EGRESS PLAN
1" = 50'-0"



FIRE ACCESS STRIPING ON CURB
- ENTIRE CURB SHALL BE PAINTED O.S.H.A. SAFETY RED (2 COATS MIN.)
- WHITE LETTERING - "FIRE LANE - NO PARKING" (2 COATS MIN.)
- LETTERING HEIGHT - 3" MINIMUM
- LETTERING TO BE ON TOP OF DESIGNATED CURBING
- SPACED AT MAXIMUM INTERVALS OF 30' O.C. OR FRACTION THEREOF
- PAINT SHALL BE SUITABLE FOR EXTERIOR APPLICATIONS AND FADE RESISTANT

3 FIRE LANE STRIPING
3/4" = 1'-0"

SITE LEGEND

(cross-hatch)	EXISTING FIRE LANE, DSA #04-120646
(red dashed line)	4" THICK, PAINTED RED CURB OR FLOOR W/ WHITE LETTERS TO INDICATE "NO PARKING FIRE LANE" PER CODE SECTION C.F.C. 503.3
(blue dashed line)	ACCESSIBLE PATH OF TRAVEL
(diagonal hatch)	SAFE DISPERSAL AREA
(symbol)	(E) FIRE HYDRANT LOCATION
(dashed circle)	FIRE HYDRANT COVERAGE AREA
(symbol)	GAS VALVE
(symbol)	HOSE PULL DISTANCE
(dotted pattern)	PV SUNSHADE STRUCTURE
(dark grey)	BUILDING IN SCOPE OF WORK
(light grey)	BUILDING NOT IN SCOPE OF WORK

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
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SDVOSB

LICENSED ARCHITECT ANDREY V. STRATTON NO. C28089 REN. 05/31/23 STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

FIRE ACCESS / EGRESS SITE PLAN

G-005

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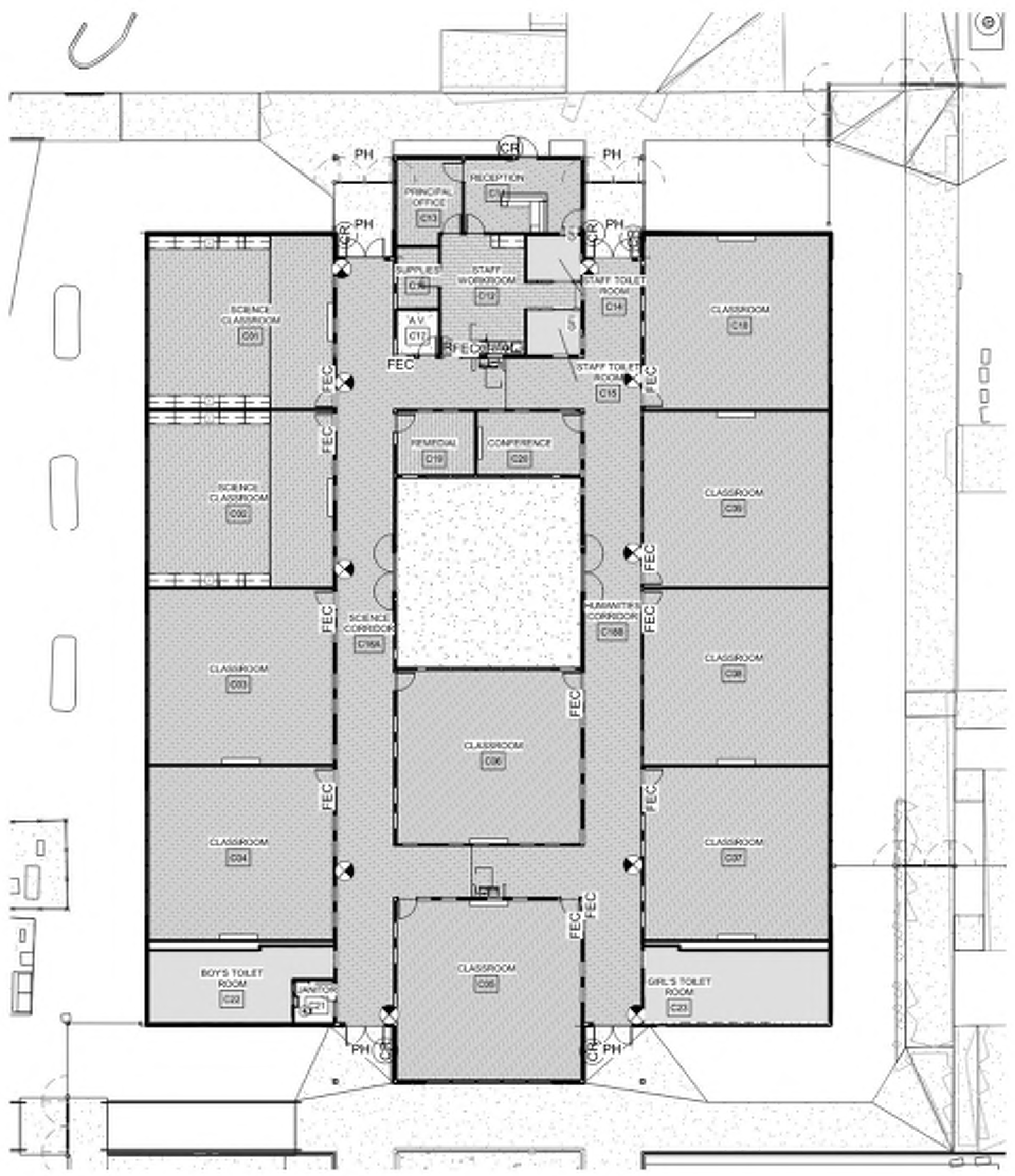
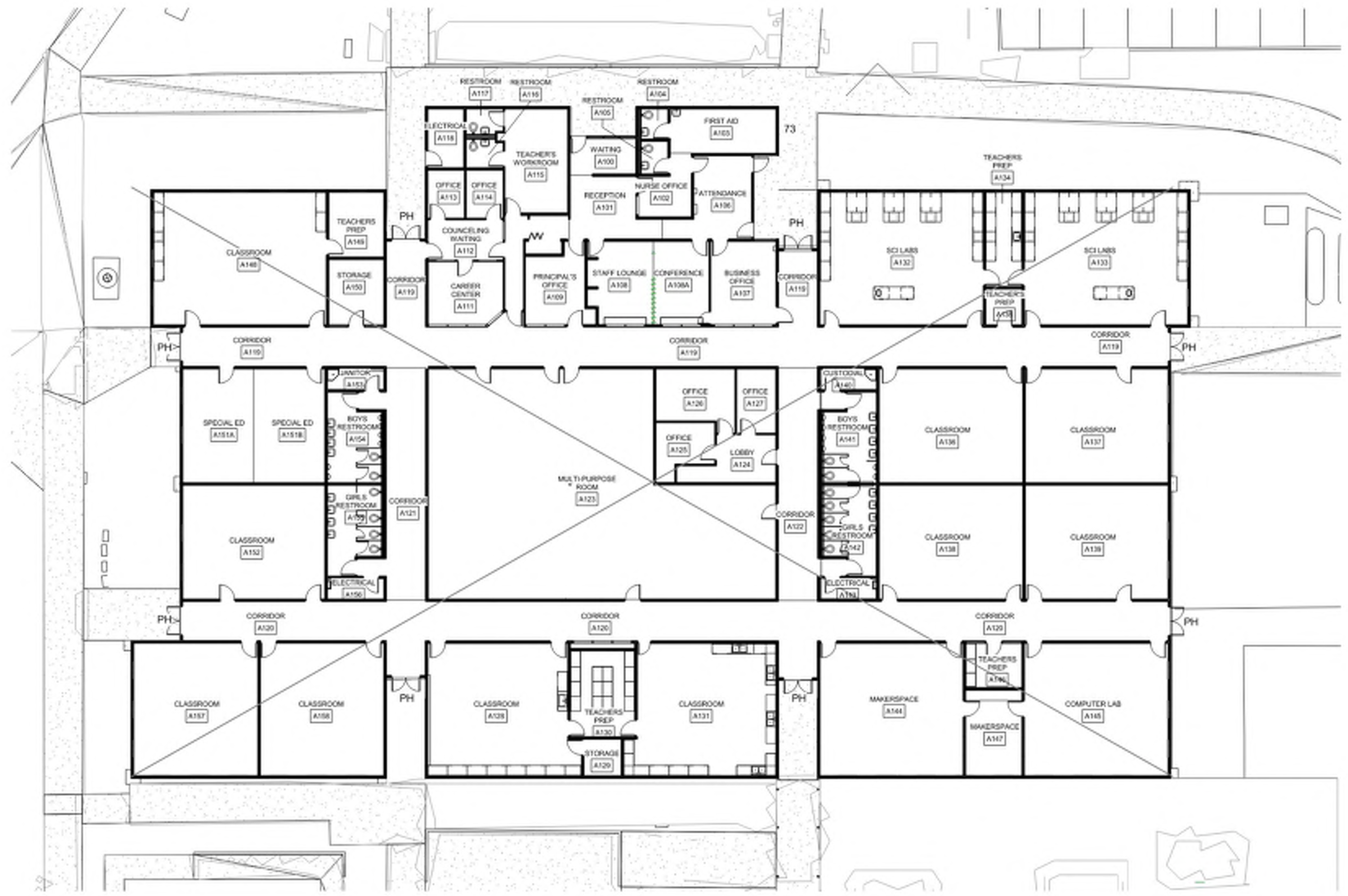


3 EGRESS FLOOR PLAN - BUILDING C

1/16" = 1'-0"

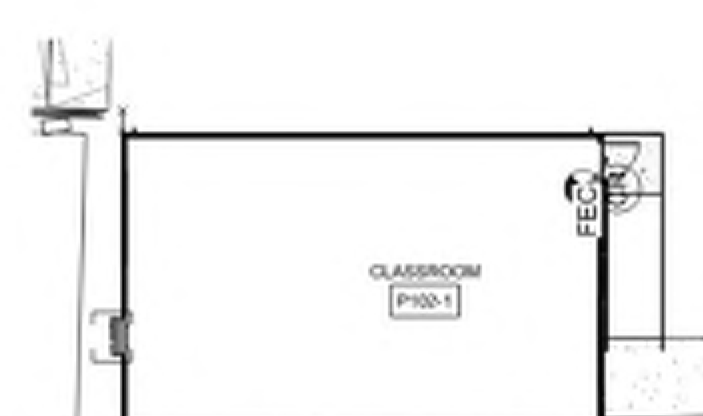
NO OCCUPANCY CHANGES TO BUILDING - OCCUPANCY UNCHANGED FROM DSA APPROVED SET PERMITTED AS E-1, EQUIVALANT TO CURRENT E OCCUPANCY



1 EGRESS FLOOR PLAN - BUILDING A

1/16" = 1'-0"

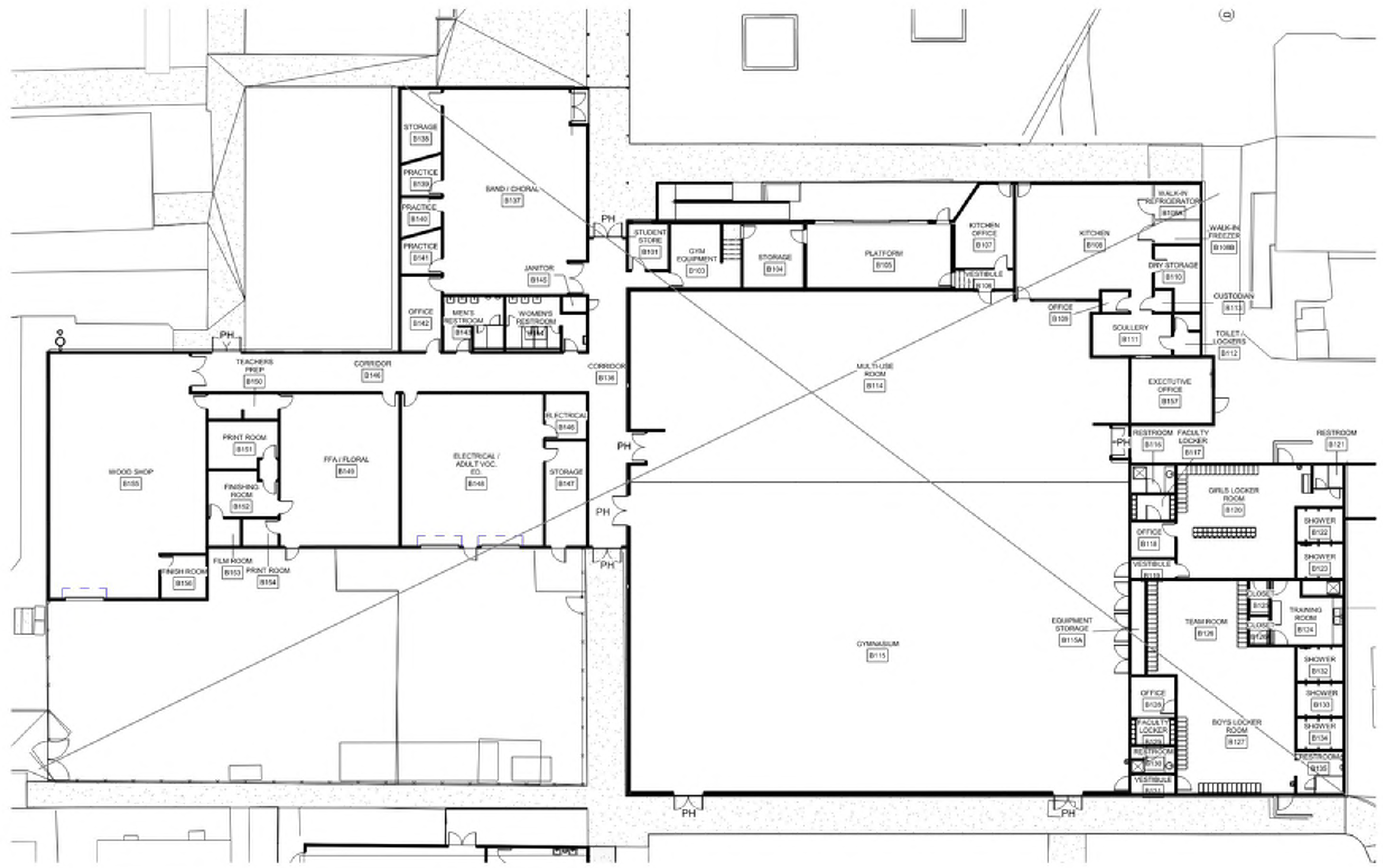
BUILDING NOT IN SCOPE - NO CHANGES TO BUILDING - OCCUPANCY UNCHANGED FROM DSA APPROVED SET PERMITTED AS E-1, EQUIVALANT TO CURRENT E OCCUPANCY



5 EGRESS FLOOR PLAN - BUILDING P102

1/16" = 1'-0"

NO OCCUPANCY CHANGES TO BUILDING - OCCUPANCY UNCHANGED FROM DSA APPROVED SET PERMITTED AS E-1, EQUIVALANT TO CURRENT E OCCUPANCY



2 EGRESS FLOOR PLAN - BUILDING B

1/16" = 1'-0"

BUILDING NOT IN SCOPE - NO CHANGES TO BUILDING - OCCUPANCY UNCHANGED FROM DSA APPROVED SET PERMITTED AS E-1, EQUIVALANT TO CURRENT E OCCUPANCY

PROJECT NORTH

TRUE NORTH

GENERAL NOTES

1. FIRE SPRINKLERS, FIRE EXTINGUISHERS, EMERGENCY ALARM SYSTEMS AND ALL EMERGENCY EQUIPMENT AND SYSTEMS, APPREAR TO BE FUNCTIONING PROPERLY. FIRE ALARM PULL STATIONS ARE CLEARLY VISABLE. FIRE EXTINGUISHERS ARE CURRENT AND PLACED IN ALL REQUIRED AREAS, INCLUDING EVERY CLASSROOM AND ASSEMBLY AREA. EMERGENCY EXITS ARE CLEARLY MARKED AND UNOBSTRUCTED.
2. DUCT SYSTEMS CONSTRUCTED OF APPROVED MATERIALS IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE THAT PENATRATE NON-FIRE RESISTANCE RATED FLOOR ASSEMBLIES SHALL BE PROTECTED (PER CBC 717.6.3).
3. DOORS WHEN FULLY OPENED, SHALL NOT REDUCE THE ENTIRE WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF (PER CBC 1005.7.1).
4. WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL (1) BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION. (2) INCLUDING LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8 INCH STROKEIN A CONTRASTING COLOR INCORPORATIONG THE SUGGESTED WORDING "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS", OR OTHER WORDING. (PER CBC 703.7).
5. EVERY ROOM OR SPACE WHICH IS UDED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR OTHER SIMILAR PURPOUSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICIOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE, POSTED SIGN SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR OWNERS AUTHORIZED AGENT. (PER CBC 1004.9) REFER TO SIGNAGE PLANS ON SHEETS I-210, I-221 & I-241 FOR SIGN LOCATIONS.

PATH OF TRAVEL NOTES

1. PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:20, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL AND IS AT LEAST 48" WIDE. SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM ABOVE FINISH GRADE (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" MAX PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2). PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING WALK SURFACES IN P.O.T. ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T. AND P.O.T. COMPLY WITH SECTION 11B-206.
2. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED TO A LEVEL OF NOT LESS THAN ONE FOOT-CANDLE AT THE WALKING SURFACE AT ALL TIMES WITHIN THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS OCCUPIED (SECTION 1008.2).
3. GRADE LEVEL AREAS DESIGNATED AS EXIT DISCHARGE COMPONENTS FOR THE BUILDING SHALL BE PERMANENTLY MAINTAINED. SUCH AREAS SHALL NOT BE DEVELOPED OR OTHERWISE ALTERED IN THEIR CAPACITY TO PROVIDE CONTINUOUS, UNOBSTRUCTED AND UNDIMINISHED MEANS OF EGRESS FOR THE BUILDING OCCUPANT. IF SUCH AREAS ARE SOLD INDEPENDENT OF THE BUILDING THEY SERVE, AN EXIT DISCHARGE COMPLYING WITH THE REQUIREMENTS OF 2019 CBC SECTION 1005 SHALL BE PROVIDED FOR THE BUILDING.

LEGEND

IN ACCORDANCE CBC TABLE 1004.5

Symbol	Description
#	OCCUPANT LOAD
#	BUILDING OCCUPANT LOAD
#	TOTAL OCCUPANT LOAD
	EXIT ACCESS PATH OF TRAVEL
	BUILDING AREA
	ACCESSIBLE RESTROOM
	FIRE RISER ROOM
	FIRE HYDRANT
	ACCESSIBLE PARKING STALL
F.E.C.	SEMI-RECESSED FIRE EXTINGUISHER CABINET SEE DETAIL 8/A-903
	EXIT SIGN, SEE DETAIL 12/I-203 FOR PLACEMENT
	1 HOUR FIRE RATED WALL AT PER PLANS
PH	PANIC HARDWARE

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REVIEWED FOR
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DAVY ARCHITECTURE
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1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT AUDREY V. STRATTON NO. C28083 REN. 05/31/23 STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

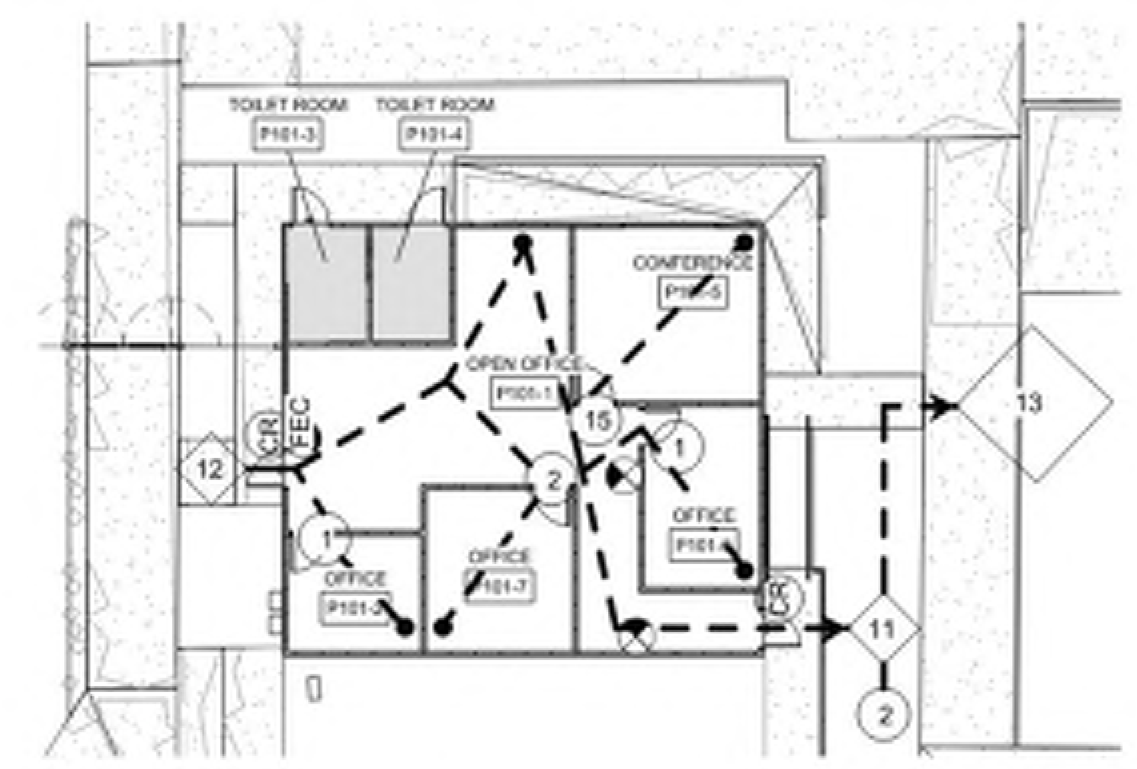
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

BUILDING EGRESS PLANS

G-006

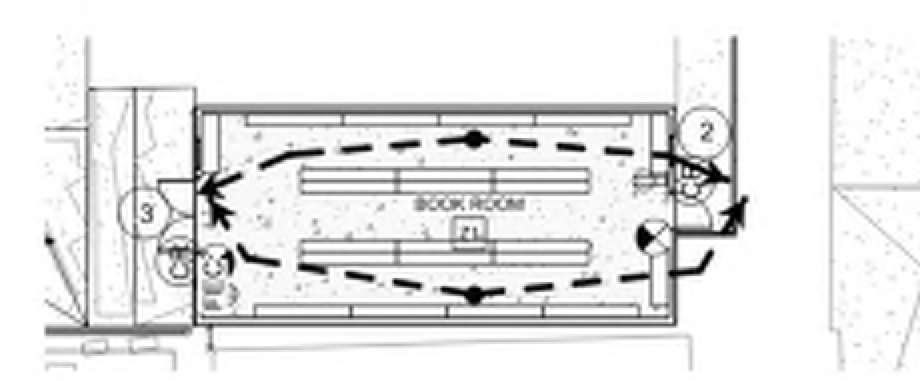
9/27/2022 9:29:51 AM

CODE ANALYSIS - BUILDING P-101					
Number	Name	Actual Area	Occupancy	Occupant Load Factor	Occupant Load
P101-1	OPEN OFFICE	566 SF	B	150 SF	4
P101-2	OFFICE	107 SF	B	150 SF	1
P101-3	TOILET ROOM	62 SF	B	0 SF	
P101-4	TOILET ROOM	62 SF	B	0 SF	
P101-5	CONFERENCE	224 SF	B	15 SF	15
P101-6	OFFICE	146 SF	B	150 SF	1
P101-7	OFFICE	166 SF	B	150 SF	2
		1333 SF			23



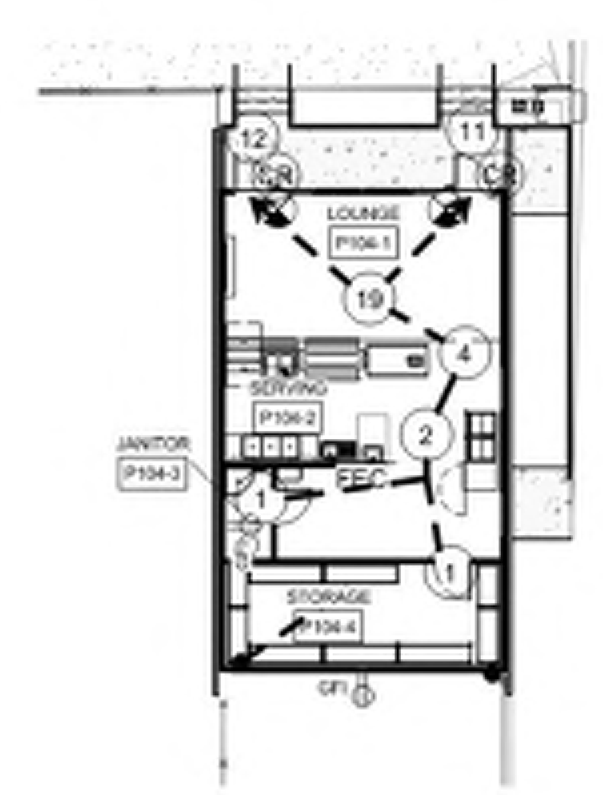
1 EGRESS FLOOR PLAN - BUILDING P101
1/16" = 1'-0"

CODE ANALYSIS - BOOKROOM					
Number	Name	Actual Area	Occupancy	Occupant Load Factor	Occupant Load
Z1	BOOK ROOM	662 SF	B	150 SF	5
		662 SF			5



2 EGRESS FLOOR PLAN - BOOK ROOM
1/16" = 1'-0"

CODE ANALYSIS - BUILDING P-104					
Number	Name	Actual Area	Occupancy	Occupant Load Factor	Occupant Load
P104-1	LOUNGE	280 SF	A-3	15 SF	19
P104-2	SERVING	380 SF	E	200 SF	2
P104-3	JANITOR	30 SF	E	300 SF	1
P104-4	STORAGE	197 SF	E	300 SF	1
		886 SF			23



3 EGRESS FLOOR PLAN - BUILDING P104
1/16" = 1'-0"

PROJECT NORTH

TRUE NORTH

GENERAL NOTES

1. FIRE SPRINKLERS, FIRE EXTINGUISHERS, EMERGENCY ALARM SYSTEMS AND ALL EMERGENCY EQUIPMENT AND SYSTEMS, APPREAR TO BE FUNCTIONING PROPERLY. FIRE ALARM PULL STATIONS ARE CLEARLY VISABLE. FIRE EXTINGUISHERS ARE CURRENT AND PLACED IN ALL REQUIRED AREAS, INCLUDING EVERY CLASSROOM AND ASSEMBLY AREA. EMERGENCY EXITS ARE CLEARLY MARKED AND UNOBSTRUCTED.
2. DUCT SYSTEMS CONSTRUCTED OF APPROVED MATERIALS IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE THAT PENATRATE NON-FIRE RESISTANCE RATED FLOOR ASSEMBLIES SHALL BE PROTECTED (PER CBC 717.6.3).
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LEGEND

IN ACCORDANCE CBC TABLE 1004.5

- OCCUPANT LOAD
- BUILDING OCCUPANT LOAD
- TOTAL OCCUPANT LOAD
- EXIT ACCESS PATH OF TRAVEL
- BUILDING AREA
- ACCESSIBLE RESTROOM
- FIRE RISER ROOM
- FIRE HYDRANT
- ACCESSIBLE PARKING STALL
- F.E.C. SEMI-RECESSED FIRE EXTINGUISHER CABINET SEE DETAIL 8/A-903
- EXIT SIGN, SEE DETAIL 12/I-203 FOR PLACEMENT
- 1 HOUR FIRE RATED WALL AT PER PLANS
- PH PANIC HARDWARE

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SDVOSB

LICENSED ARCHITECT
NO. C28080
STATE OF CALIFORNIA

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
_	04.29.2022	DSA SUBMITTAL
__	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

BUILDING EGRESS PLANS

G-007

9/27/2022 9:29:59 AM

ALLOWABLE BUILDING AREA

Bldg C	**13,606.00 SF**		
CONST TYPE	V-N		
CURRENT CODE EQUIVALENT	V-B		
SPRINKLERS	NO		
OCCUPANCY	E		
AREA	13,100.00		
P102	506.00		
ALLOWABLE AREA (per Section 506)	9,500.00		
	3,600.00		
Determination	***Requires Increase***		
FRONTAGE INCREASE			
perimeter	508		
perimeter w/ 20' min to open space	508		362
PERCENT	100%	*OVER 25%?*	YES
If over 25%, qualified for frontage increase			
If = Area factor increase	0.5		
F = building perimeter, min 20' away	508		
P = perimeter of building	508		
W= Width of public way or space in fr	20		
Allowable Area (w Increase)	**14,250.00**		
AREA:	(1,150.00)		
Determination	***OK***		

Building Bookroom	**662.00 SF**
CONST TYPE	V-N
CURRENT CODE EQUIVALENT	V-B
SPRINKLERS	NO
OCCUPANCY	E
AREA	662.00
ALLOWABLE AREA (per Section 506)	9,500.00
	(8,838.00)
Determination	***OK***

Building P101	**1,333.00 SF**
CONST TYPE	V-N
CURRENT CODE EQUIVALENT	V-B
SPRINKLERS	NO
OCCUPANCY	E
AREA	1,333.00
ALLOWABLE AREA (per Section 506)	9,500.00
	(8,167.00)
Determination	***OK***

Building P102	**936.00 SF**
CONST TYPE	V-N
CURRENT CODE EQUIVALENT	V-B
SPRINKLERS	NO
OCCUPANCY	E
AREA	936.00
ALLOWABLE AREA (per Section 506)	9,500.00
	(8,564.00)
Determination	***OK***

Bldg D+P101+BOOKROOM+P	**4,381.00 SF**
CONST TYPE	V-N
CURRENT CODE EQUIVALENT	V-B
SPRINKLERS	NO
OCCUPANCY	E
AREA	4,381.00
ALLOWABLE AREA (per Section 506)	9,500.00
	(5,119.00)
Determination	***OK***

Building P104	**865.00 SF**
CONST TYPE	V-N
CURRENT CODE EQUIVALENT	V-B
SPRINKLERS	NO
OCCUPANCY	E
AREA	865.00
ALLOWABLE AREA (per Section 506)	9,500.00
	(8,635.00)
Determination	***OK***

ALLOWABLE AREA CALC

A = (A + [A x I] + [A x I])

- A_a = ALLOWABLE AREA PER STORY (SQUARE FEET)
- A_t = TABULAR AREA PER STORY IN ACCORDANCE W/ TABLE 503
- I_f = AREA INCREASE FACTOR DUE TO FRONTAGE AS CALCULATED IN ACCORDANCE W/ SECTION 506.2
- F = BUILDING PERIMETER THAT FRONTS ON A PUBLIC WAY AS CALCULATED IN ACCORDANCE W/SECTION 506.2
- P = PERIMETER OF ENTIRE BUILDING (FEET)
- W = WIDTH OF PUBLIC WAY OR OPEN SPACE (FEET) IN ACCORDANCE W/SECTION 506.2.1
- I_s = AREA INCREASE FACTOR DUE TO SPRINKLER PROTECTION AS CALCULATED IN ACCORDANCE W/ SECTION 506.3

OCCUPANCY CALCULATIONS

BUILDING C

C01 Science Classroom C01	786	20	39.3	40
C02 Science Classroom C02	801	20	40.05	41
C03 Classroom C03	795	20	39.75	40
C04 Classroom C04	790	20	39.5	40
C05 Classroom C05	812	20	40.6	41
C66 Classroom C06	787	20	39.35	40
C07 Classroom C07	786	20	39.3	40
C08 Classroom C08	802	20	40.1	41
C09 Classroom C09	802	20	40.1	41
C10 Classroom C10	789	20	39.45	40
C11 Reception	210	15	14.0000	14
C12 Staff Workroom	312	150	2.08	3
C13 Principal's Office	130	150	0.866666667	1
C14 Staff Toilet	45	0	#DIV/0!	0
C15 Staff Toilet	45	0	#DIV/0!	0
C16 Supplys	62	300	0.206666667	1
C17 A. V.	45	300	0.15	1
C17 Corridor	2636	0	#DIV/0!	0
C19 Remedial	120	20	6.0000	6
C20 Conference	162	15	10.8	11
C21 Janitor	38	300	0.126666667	1
C22 Boy's Toilet Room	235	0	#DIV/0!	0
C23 Girl's Toilet Room	236	0	#DIV/0!	0
Interior Courtyard	865	15	57.66666667	58
B Occupancy	1011			31
E Occupancy	8108	9119		411
Circulation	2636			
Toilet Facilities	561			
Total SF Check	12316			442
Total SF	12226			
			TOTAL	442

PLUMBING FIXTURE COUNTS

		MALE	FEMALE
TOTAL OCC:	442	221	221

BUILDING P101

P101-1 Open Office	566	150	3.7733	4
P101-2 Office	107	150	0.713333333	1
P101-3 Toilet Room	62	0	#DIV/0!	0
P101-4 Toilet Room	62	0	#DIV/0!	0
P101-5 Conference	224	15	14.93333333	15
P101-6 Office	164	150	1.093333333	1
P101-7 Office	166	150	1.106666667	2
B Occupancy	1227			
E Occupancy	0	1227		
Circulation	0			
Toilet Facilities	124			
Total SF Check	1351			
Total SF	1351			
			TOTAL	23

PLUMBING FIXTURE COUNTS

		MALE	FEMALE
TOTAL OCC:	23	11	11

BUILDING P104

P104-1 Lounge	272	15	18.1333	19
P104-2 Serving	375	200	1.875	2
P104-3 Janitor	28	300	0.093333333	1
P104-4 Storage	190	300	0.633333333	1
B Occupancy	0			
E Occupancy	865	865		
Circulation	0			
Toilet Facilities	0			
Total SF Check	865			
Total SF	865			
			TOTAL	23

PLUMBING FIXTURE COUNTS

		MALE	FEMALE
TOTAL OCC:	23	12	12

BOOKROOM

Building Bookroom	662	150	4.413333333	5
			TOTAL	5

PLUMBING FIXTURE COUNTS

		MALE	FEMALE
TOTAL OCC:	5	2	2

P102

Building P102	936	20	46.8	47
			TOTAL	47

PLUMBING FIXTURE COUNTS

		MALE	FEMALE
TOTAL OCC:	47	23	23

PLUMBING FIXTURE REQUIREMENTS

BUILDING	OCCUPANCY	TOTAL OCCUPANT LOAD (FOR PLUMBING FIXTURE COUNT	50% M/F	WATER CLOSETS MALE	WATER CLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	DRINKING FOUNTAINS
		A-3 Occpancy		1: 1-100 2: 100-200 3: 201-400	1: 1-25 2:26-50 3:51-100 4:101-200	1: 1-100 2:100-200 3: 301-400 4: 401-600	1: 1-200 2: 201-400 3: 401-600	1: 1-100 2: 101-200 4:201-300 5: 301-500	1: 1-250 2: 251-500 3: 501-750
		B		1: 1-50 2: 51-100 3: 101-200 4: 201-400	1: 1-15 2: 16-30 3: 31- 50 4: 51- 100 8: 101- 200	1: 1-100 2: 101-200 3: 201-400 4: 401-600	1: 1-75 2: 76-150 3: 151-200 4: 201-300	1: 1-50 2: 51-100 3: 101-150 4: 151-200	1/150
		E		1/50	1/30	1/100	1/40	1/40	1/150
C	B E TOTAL PROVIDED	31 411 442	221	1 4 5 5	3 7 10 8	1 2 3 4	1 1 2 5	1 6 7 7	3 2
BOOKROOM	B TOTAL PROVIDED	5 5	3	1 1 0	1 1 0	1 1 0	1 1 0	1 1 0	1 0
P101	B TOTAL PROVIDED	23 23	12	1 1 1	1 1 1	1 1 0	1 1 1	1 1 1	1 0
P102	E TOTAL PROVIDED	47 47	24	1 1 0	1 1 0	0 0 0	1 1 0	1 1 0	1 0
P104	A-3 E TOTAL PROVIDED	19 4 23	12	1 1 2 0	1 1 2 0	1 1 2 0	1 1 2 0	1 1 2 0	1 0
	TOTAL PROVIDED								1
WHOLE SITE TOTALS									
		Total Required		10	15	7	7	12	7
		Total Provided		6	9	4	6	8	3

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DRAWN BY: MEP
CHECKED BY: JM / AS

ALLOWABLE BUILDING AREA, FIRE DATA, AND FIXTURE CALCS

G-008

9/27/2022 9:30:00 AM

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR, ETC.)

Y | N/A | RESPON. PARTY

CHAPTER 3
GREEN BUILDING

SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its NON COMPLIANT plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of NON COMPLIANT plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)

301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE. The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

A. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
B. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]
1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

Note: [N]
1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.
3. Refer to the California Building Code for requirements for additions and alterations.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS[1,2]

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING[3]					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting[4]	N/A	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING[5] (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.
4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting".
5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 SCOPE [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 SCOPE. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following: more than 1,000 gal/day.

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

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STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

CAL GREEN CODE

G-009

9/27/2022 9:30:03 AM

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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR, ETC.)

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at:
Http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:
1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 320/ Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, gauge.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed wood stove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. wood stoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 wood stoves. wood stoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

CAL GREEN CODE

G-010

9/27/2022 9:30:05 AM

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR, ETC.)

Y	N/A	RESPON. PARTY

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT$_{1,2}$

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS$_{2,3}$

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS$_1$	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program.
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS$_1$

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD$_2$	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:
1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

SECTION 5.508 OUTDOOR AIR QUALITY

STC ratings may be found at the California Office of

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the California Mechanical Code and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:Certification by a national or regional green building program or standard publisher.

1. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
2. Successful completion of a third-party apprentice training program in the appropriate trade.
3. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

CAL GREEN CODE

G-011

9/27/2022 9:30:08 AM

National Flood Hazard Layer FIRMette

FEMA

116°29'51"W 32°44'18"N

116°29'13"W 32°43'48"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/12/2021 at 2:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

FLOOD ZONE MAP

G-012

9/27/2022 9:30:09 AM

PRECISE GRADING PLANS FOR:
MOUNTAIN EMPIRE HIGH SCHOOL AND DISTRICT OFFICE
JUNIOR HIGH SCHOOL MODERNIZATION

GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
5. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH LANDSCAPE ARCHITECT PLANS.
6. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

SAN DIEGO GAS & ELECTRIC:	TELEPHONE NO. 1-800-611-7343
AT&T:	TELEPHONE NO. 1-619-237-2787
SPECTRUM CABLE:	TELEPHONE NO. 1-800-227-2600

7. A SOILS REPORT WAS PREPARED BY GEOCON INC. PROJECT NO. G2820-42-01 DATED 10-15-2021.
8. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
9. THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND LAND USE.
10. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 6:00 PM EACH DAY, MONDAY THRU SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
11. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
12. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
13. SLOPE RATIOS:

    CUT-1.5:1 FOR MINOR SLOPES UNDER 15' HIGH OR IN ROCK 2:1 FOR MAJOR SLOPES
    FILL-2:1

    EXCAVATION:
    FILL:
    WASTE/IMPORT:

    (NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS)

    (NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS.)
14. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE OF THE DISCOVERY DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS
15. ALL GRADING DETAILS WILL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARD DRAWINGS DS-8, DS-10, DS-11, AND D-75.
16. FINISHED GRADING SHALL BE CERTIFIED BY A REGISTERED ENGINEER OR PG OF LAND SURVEYOR AND INSPECTED BY THE COUNTY ENGINEER FOR DRAINAGE CLEARANCE. (APPROVAL OF ROUGH GRADING DOES NOT CERTIFY FINISH BECAUSE OF POTENTIAL SURFACE DRAINAGE PROBLEMS THAT MAY BE CREATED BY LANDSCAPING ACCOMPLISHED AFTER ROUGH GRADING CERTIFICATION.

CONCRETE PAVING NOTES

1. CONCRETE FLATWORK GREATER THAN 8 FEET IN BOTH DIMENSIONS SHALL BE INCREASED TO 5" THICKNESS. REDUCE JOINT DEPTH TO 1", AND ADD REINFORCING (6X6 – 6/6 WW MESH OR #3 @ 18" O.C. E.W).
2. CONTRACTOR SHALL PREPARE AND SUBMIT A JOINT SPACING LAYOUT SHOWING THE LOCATION AND SPCAING OF CONTROL,WEAKENED PLAN, EXPANSION OR OTHER JOINTS FOR REVIEW AND APPROVAL. PLAN SHALL INCLUDE ANY LIMITS OF COLOR, FINISHES AND TEXTURES.
3. CONTROL JOINT SPACING SHOULD NOT EXCEED 12 FEET. THE CRACK CONTROL JOINTS SHOULD BE CREATED WHILE THE CONCRETE IS STILL FRESH USING A GROOVING TOOL OR SHORTLY THEREAFTER USING SAW CUTS. THE JOINT SHOULD EXTEND INTO THE SLAB A MINIMUM OF ONE-FOURTH OF THE SLAB THICKNESS.
4. JOINTS SHOULD BE FILLED WITH A JOINT FILLER OR SEALER TO AID IN PREVENTING MIGRATION OF WATER INTO SUBGRADE AND BASE MATERIALS. APPROPRIATE FILLERS OR SEALERS ARE DISCUSSED IN THE REFERENCED ACI GUIDE.
5. THICKENED EDGE SHALL BE CONSTRUCTED ON THE OUTSIDE OF CONCRETE SLAB SUBJECTED TO WHEEL LOADS. THE THICKENED EDGE SHALL BE 1.2 TIMES THE SLAB THICKNESS AND TAPER TO THE MINIMUM SLAB THICKNESS OVER 3 FEET HORIZONTAL DISTANCE
6. PAVEMENT SUBGRADE SOILS SHALL SCARIFIED, MOISTURE CONDITIONS AND COMPACTED TO A DRY DENSITY OF 95% (ASTM D-1557) TO A DEPTH OF AT LEAST 12 INCHES.
7. CONTRACTOR SHALL PREPARE JOINT LAYOUT PLAN SHOWING THE LOCATION AND SPACING OF ALL WEAKENED PLANE, EXPANSION, AND CONTROL JOINTS AS PART OF THE CONCRETE MATERIAL SUBMITTAL.
8. CONCRETE WALKWAYS AND EXTERIOR SLABS GREATER THAN 8' IN BOTH DIRECTION SHALL BE 5" THICK WITH 6"x6" W2.96 GAUGE WIRE MESH IN BOTH DIRECTION AND 1" CONTROL JOINTS.

LIST OF ABBREVIATIONS

EXIST.	EXISTING	C.B.	CATCH BASIN
R/W	RIGHT-OF-WAY	C.O.	CLEANOUT
TYP.	TYPICAL	D.G.	DECOMPOSED GRANITE
F.G.	FINISHED GRADE	P.C.C.	PORTLAND CEMENT CONCRETE
T.C.	TOP OF CURB		
F.F.	FINISHED FLOOR	STA.	STATION
S.G.	SUBGRADE	DWG.	DRAWING
AC.	ACRE	MAX.	MAXIMUM
℄	PROPERTY LINE	ELEV.	ELEVATION
℄	CENTERLINE	O.C.	ON CENTER
℄	FLOW LINE	SIM.	SIMILAR
MIN.	MINIMUM	ST. LT.	STREET LIGHT
P.P.	POWER POLE	PVT.	PRIVATE
E.P.	EDGE OF PAVEMENT	DWY.	DRIVEWAY
DIA.	DIAMETER	PKWY.	PARKWAY
E.O.E.	EXISTING OVERHEAD ELECTRIC	S.D.C.O.	STORM DRAIN CLEANOUT
V.C.P.	VITRIFIED CLAY PIPE	GTR.	GUTTER
S.F.	SQUARE FEET	MOD.	MODIFIED
L.P.	LOW POINT	S.C.O.	SEWER CLEANOUT
R.C.P.	REINFORCED CONCRETE PIPE	U.N.O.	UNLESS NOTED OTHERWISE
T.W.	TOP OF WALL	I.E.	INVERT ELEVATION
S.M.H.	SEWER MANHOLE	C.Y.	CUBIC YARD
G.F.	GARAGE FLOOR	F.M.	FINAL MAP
D.U.	DWELLING UNIT		
BTM.	BOTTOM		
B.W.	BOTTOM OF WALL		
H.P.	HIGH POINT		
F.S.	FINISHED SURFACE		

SPECIAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

1. NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
2. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
3. BEFORE EXCAVATING FOR THIS CONTRACT VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATIONS OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FILED MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK.
4. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
5. WHERE TRENCHES ARE ADJACENT TO FUTURE BUILDING SITES, SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOILS ENGINEER WHICH CERTIFY THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH THE ON-SITE EARTHWORK SPECIFICATIONS.
6. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
7. THE PRELIMINARY PAVEMENT SECTION(S) SHALL BE CONFIRMED BY TESTING, PERFORMANCE BY THE SOILS ENGINEER, UPON COMPLETION OF THE ROUGH GRADING.
8. QUANTITIES SHOWN ON THIS PLAN ARE FOR BONDING AND CONTRACTOR CONFIRMATION PURPOSES ONLY. THE CONTRACTOR IS TO ESTIMATE HIS OWN QUANTITIES FOR BID AND NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WHETHER (OR NOT) THE FIELD CONDITIONS AT UTILITY POINTS OF CONNECTION ARE PER THE APPROVAL PLANS. IF FIELD CONDITIONS DIFFER FROM THE APPROVED PLANS, THE CONTRACTOR SHALL CONTACT THE SITE SUPERINTENDENT SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW REVISIONS TO THE PLANS, AND (TO OBTAIN) PUBLIC AGENCY APPROVAL, IF REQUIRED, PRIOR TO CONTRACTOR INSTALLING STRUCTURES.

GRADING AND GEOTECHNICAL SPECIFICATIONS

ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE SOILS REPORT OR GEOLOGICAL/GEOTECHNICAL INVESTIGATION(S) ENTITLED:

GEOTECHNICAL INVESTIGATION
MOUNTAIN EMPIRE HIGH SCHOOL MODERNIZATION
3305 BUCKMAN SPRINGS ROAD
PINE VALLEY, CALIFORNIA 91962

PROJECT #: G2820-42-01
DATED: 10-15-21

GEOCON INCORPORATED
6960 FLANDERS DRIVE
SAN DIEGO, CALIFORNIA 92121

ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.

IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THE RESPONSIBILITY WITHIN THE AREA OF THEIR TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE CITY ENGINEER AND THE GEOLOGY SECTION OF DEVELOPMENT SERVICES IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.

THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

9-22-2022
RODNEY C. MIKESELL G.E. 2533 DATE

REGISTERED PROFESSIONAL ENGINEER RODNEY C. MIKESELL No. 2533 GEOTECHNICAL STATE OF CALIFORNIA

9-22-2022
RUPERT S. ADAMS C.E.G. 2561 DATE

PROFESSIONAL GEOLOGIST RUPERT S. ADAMS No. 2561 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

GEOCON INCORPORATED
6960 FLANDERS DRIVE
SAN DIEGO, CALIFORNIA 92121

LEGAL DESCRIPTION

PORTION SE QUARTER OF SW QUARTER OF SECTION 32 TOWNSHIP 16 SOUTH RANGE 5 EAST

APN

760-134-05

SITE AREA

GROSS AREA = 17.81 A.C.
DISTURBED AREA = 41,600 S.F.
IMPERVIOUS AREA = 22,325 S.F.
(NEW AND REPLACED)

EARTHWORK QUANTITIES

SEE SPECIAL NOTE #8.
*CUT QUANTITIES = 250 C.Y. MAX. CUT SLOPE RATIO 2:1 (2:1 MAX.).
FILL QUANTITIES = 100 C.Y. MAX. FILL SLOPE RATIO 2:1 (2:1 MAX.).
*EXPORT = 50 C.Y.

MAX. FILL DEPTH = 2'
MAX. CUT DEPTH = 3'

*EXCLUDES VOLUMES FOR DEMOLITION, PAVING SUBGRADE, REMEDIAL GRADING AND SHRINKAGE

EXPORT NOTE

ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE IN ACCORDANCE WITH 2018/2021 GREENBOOK AND SUPPLEMENTAL AMENDMENTS. THE APPROVAL OF THIS PLAN DOES NOT ALLOW PROCESSING AND SALE OF MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

REFERENCE DRAWING

PADEREWSKI,
DEAN AND ASSOCIATES, MAY 1976

OWNER/APPLICANT

MOUNTAIN EMPIRE HIGH SCHOOL DISTRICT
3305 BUCKMAN SPRING ROAD
PINE VALLEY, CA. 91962

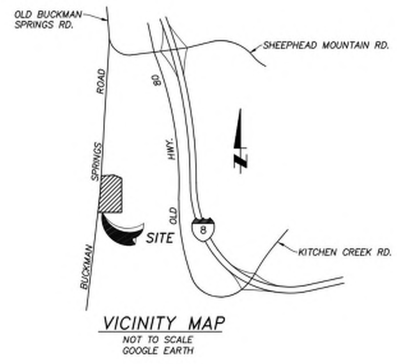
SHEET INDEX

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY ANY AGENCY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

9-21-22
ALLEN L. BUTCHER P.E. 47107 DATE

REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA



VICINITY MAP
NOT TO SCALE
GOOGLE EARTH

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE COUNTY OF SAN DIEGO AND THE RECOMMENDATION IN THE PROJECT GEOTECHNICAL REPORT.

STANDARD SPECIFICATIONS

1. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2018 EDITION.
2. CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION.
3. CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2015 EDITION.
4. 2019 CALIFORNIA PLUMBING CODE.
5. PROJECT SPECIFICATIONS.

STANDARD DRAWINGS

1. SAN DIEGO REGIONAL STANDARD DRAWING 2021 EDITION.
2. CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION.
3. CASQA CONSTRUCTION HANDBOOK, 2009 EDITION.

LEGEND

IMPROVEMENT	STANDARD DWG. NO.	SYMBOL
SEE SHEET C-05, C-06, AND C-07 FOR COPIES OF DETAIL	M-29	
PROJECT BOUNDARY		
CENTERLINE		
CURB	G-1	
CURB AND GUTTER	G-2	
CONCRETE SWALE	G-13	
CONCRETE SIDEWALK (SEE CONCRETE PAVING NOTES THIS SHEET)	G-7, G-9, G-10, G-11	
RETAINING WALL	STRUCTURAL	
REMOVE AND REPLACE A.C. PAVING		
8" P.V.C. WATER MAIN	WP-02	W8 W8
6" FIRE HYDRANT ASSEMBLY	WF-02, WF-04, WM-04, WP-01	
THRUST BLOCK	WT-01	
GATE VALVE	WV-01	
DOWNSPOUT LOCATION	SEE ARCHITECTURAL PLANS	DS
P.V.C. STORM DRAIN (SDR-35)		
CURB INLET	D-20, D-11, D-12	
TYPE "F" CATCH BASIN	D-07, D-10, D-11	
TYPE "G" CATCH BASIN	D-08, D-10, D-11 D-13, D-14	
STORM DRAIN CLEANOUT (TYPE A)	D-09, D10, D-11	
STRAIGHT HEADWALL	D-30	
WING AND U-TYPE HEADWALL	D-34	
STORM DRAIN PIPE BEDDING/ BACKFILL	D-40	
TYPE "B" BROW DITCH	D-75	
SEWER MAIN (SDR-35)	SP-01, SP-02	S
4" P.V.C. SEWER LATERAL (SDR-35)	SP-01, SP-02	S
SEWER CLEANOUT	SC-01	
SEWER MANHOLE 48" PRECAST	SM-01, SM-04, SM-05	
NARROW TRENCH RESURFACING	G-33	
TRENCH RESURFACING	WP-02, G-24A, G-24B	
A.C. BERM (TYPE D)	G-5	
SITE LIGHTING	PER LANDSCAPE PLANS	
TRUNCATED DOMES	ARCHITECTURAL DETAILS SHEET A-016	
PED RAMP	G-27, G-30	
DISABLED PARKING	ARCHITECTURAL DETAILS SHEET A-015 AND SHEET C-03	

* A.C. PAVING AND BASE 6" A.C./12" CLASS 2 AB
* UPPER 12" OF SUBGRADE AND BASE MATERIALS SHALL BE COMPACTED TO 95% RELATIVE COMPACTION (ASTM D1557) SEE PAVEMENT EVALUATION REPORT FOR ADDITIONAL SPECIFICATIONS. SEE SPECIAL NOTE #7.

EXISTING LEGEND

EXISTING ELEVATION	(270.0)
EXISTING CONTOUR	270
EXISTING SEWER LATERAL	S
EXISTING WATER LATERAL	W
EXISTING CURB AND GUTTER	
EXISTING GAS	G G
EXISTING ELECTRIC	E E
EXISTING SEWER	S S
EXISTING WATER	W W
EXISTING FIRE HYDRANT	
EXISTING SEWER MANHOLE	S
EXISTING OVERHEAD UTILITIES	OHE
EXISTING FIBER OPTIC DUCT	TV
EXISTING FENCE	X X X
EXIST. ASPHALT PAVING	
EXIST. CONCRETE PAVING	

DIGALERT 811

REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

SB&O INC.
PLANNING ENGINEERING SURVEYING
3990 Ruffin Road, Suite 120
San Diego, Ca. 92123
858-560-1141
858-560-8157 Fax

9-21-22
ALLEN BUTCHER P.E. 47107 DATE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Middle School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09/19/22	DSA RESUBMITTAL
	04/29/22	DSA SUBMITTAL

SB&O PROJECT No: 74842.30
DRAWN BY: CF/TP
CHECKED BY: ALB

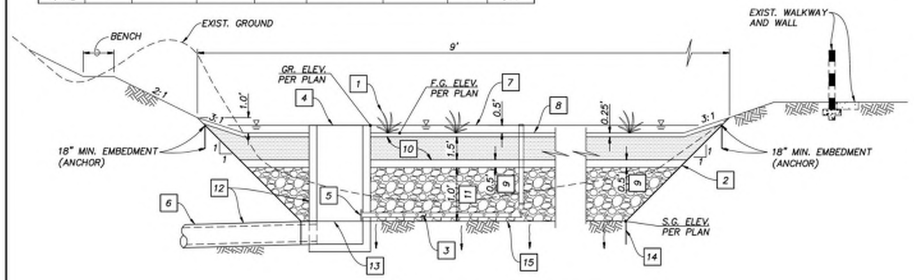
PRECISE GRADING PLAN

TITLE SHEET

C-01

Plotted: 9/22/2022 11:31 AM D:\74842 ME\DSD\03 DWG\PGP\PHASE 1B MAIN OFFICE ENTRY\74842PG01-P003.DWG - tony p

DMA	DMA AREA (AC)	IMPERVIOUS AREA (AC)	PERVIOUS AREA (AC)	SOIL TYPE	APPROXIMATE DEPTH TO GROUND WATER	BMP	BMP TYPE	SURFACE AREA (SF)
F1	–	–	–	–	>20'	BASIN A–1	INF–2	844
–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–
TOTAL	–	–	–	–	–	–	–	844



A C–02 **DETAIL ~ BASINS**
NOT TO SCALE

BIOFILTRATION DETAIL NOTES

1. PLANTING PER LANDSCAPING PLANS.
2. 30 MIL. P.V.C. LINER. ALL JOINTS TO BE SEALED WITH 12" MIN. OVERLAP. SEAL ALL PENETRATIONS.
3. 6" SLOTTED P.V.C. SUBDRAIN (ASTM D–3034), 3" MIN. FROM BOTTOM. SUBDRAIN WRAPPED IN MIRAFI 140N FABRIC "SOCK". FOR THE ENTIRE LENGTH OF BASIN.
4. OUTLET CONTROL STRUCTURE WITH GRATED TOP.
5. ORIFICE PLATE (NOT USED).
6. OUTLET PIPE.
7. CLEANOUT PER SDRSD SC–01. RIM = F.G. + 0.6'
8. ROCK MULCH PER L1.1 AND L1.3.
9. FILTER COURSE TO BE 3" CLEAN AND WASHED SAND (ASTM NO. 33) OVER 3" LAYER OF ASTM NO. 8 STONE.
10. SOIL MEDIA, INFILTRATION = (BSM SPECIFICATION PER APPENDIX G OF COUNTY OF SAN DIEGO L.I.D. HANDBOOK JUNE 2014)

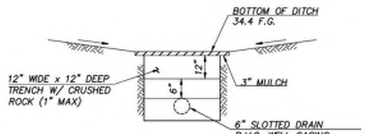
PER COUNTY OF SAN DIEGO L.I.D. HANDBOOK:

BSM COMPOSITION	SANDY LOAM				
	SAND	SAND	SILT	CLAY	COMPOST
VOLUME	65%	20%			15%
WEIGHT	75–80%	10% MAX.		3% MAX.	9% MAX.[1]

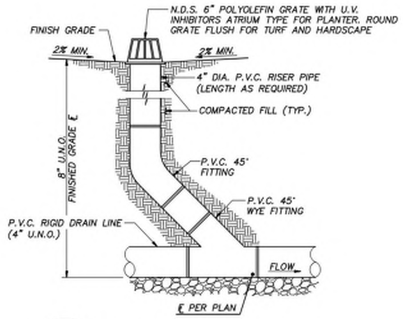
9% COMPOST BY WEIGHT RESULTS IN APPROXIMATELY 5% ORGANIC MATTER BY WEIGHT. SOIL MEDIA SHALL BE NUTRIENT SENSITIVE.

11. AGGREGATE STORAGE LAYER ASTM NO. 57 ROCK.
12. 2–SACK SLURRY BACKFILL AROUND STORM DRAIN LINE, PIPE ZONE.
13. SLURRY BACKFILL TO START AT STORM DRAIN BOX AND EXTEND AT LEAST 5 FEET BEYOND SLOPE FACE.
14. SEAL PVC LINER AROUND PIPES:
    USE A PIPE BOOT AND PVC SKIRT TO SEAL ALL LINER PENETRATIONS FOR PIPES. PVC SKIRT SHOULD BE SEALED TO THE PARENT LINER PER MANUFACTURER'S RECOMMENDATIONS (TYPICALLY A WEDGE WELDER). THE PIPE BOOT SLEEVE SHOULD BE ATTACHED TO THE PIPE USING BUTYL TAPE AND STAINLESS STEEL BAND CLAMP.

    ATTACH THE LINER TO CONCRETE STRUCTURES:
    1. PREPARE A PVC SKIRT FOR CONCRETE STRUCTURE.
    2. ATTACHED THE LINER TO THE CONCRETE STRUCTURE USING A STAINLESS STEEL BATTEN STRIP. ALSO ADHERE THE LINER TO THE CONCRETE USING A WATER PROOF ADHESIVE PER THE MANUFACTURE'S RECOMMENDATIONS (TYPICALLY A POLYURETHANE).
    3. THE PVC SKIRT TO BE SEALED TO THE PARENT LINER PER MANUFACTURER'S RECOMMENDATIONS (TYPICALLY A WEDGE WELDER).
15. EMBED LINER 12" VERTICAL.
16. NO LINER AT BOTTOM OF BASIN A–1.



B C–02 **TYPICAL SECTION ~ SUBDRAIN**
NOT TO SCALE



C C–02 **DETAIL ~ AREA DRAIN**
NOT TO SCALE

DIGALERT 811

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF DAVY ARCHITECTURE, INC. AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF DAVY ARCHITECTURE, INC. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

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Mountain Empire Unified School Disctrict

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3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09/19/22	DSA RESUBMITTAL
	04/29/22	DSA SUBMITTAL

SB&O PROJECT No:	74842.30
DRAWN BY:	CF/TP
CHECKED BY:	ALB

PRECISE GRADING PLAN

TYPICAL SECTIONS, DETAILS AND NOTES

C–02

REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

SB&O INC.
PLANNING ENGINEERING SURVEYING
3990 Ruffin Road, Suite 120
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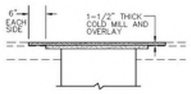
ALLEN BUTCHER P.E. 47107 9-21-22 DATE

Plotted: 9/21/2022 12:36 PM ID:74842 ME\SD\03 DWG\PDP\PHASE 1B MAIN OFFICE ENTRY\74842PG01-PG03.DWG - tony.p



TYPE D – PHASE II FINISH PAVING

	TYPE C TRENCH	
	ASPHALT	ASPHALT PLUS BASE
MIX DESIGN	3/4" TYPE III CLASS B3	3/4" TYPE III CLASS B3 PLUS CLASS II BASE
ALLEYS	8.0"	ASPHALT THICKNESS TO EQUAL EXISTING PLUS 1", MIN 4" TO MAX 9" COMBINED ASPHALT PLUS BASE 18" MIN.
LOCAL – 4 LANE COLLECTOR	10.0"	
MAJOR OR GREATER	12.0"	

GENERAL NOTES:

1. TRENCH EDGES TO BE SAWCUT A MINIMUM OF 6" WIDER THAN TRENCH FOR 3' WIDE OR LESS, AND 12" WIDER FOR TRENCHES OVER 3' WIDE ON EACH SIDE OF TRENCH, EXCEPT TYPE B.
2. EXISTING A.C. SHALL BE SAWCUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO STREET CENTERLINE, WHEN PRACTICAL.
3. BASE MATERIAL SHALL MATCH THE THICKNESS OF EXISTING BASE OR AS SHOWN ON PLAN. A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL WITH PRIOR AGENCY APPROVAL. TYPE C – SEE TABLE.
4. A TACK COAT OF ASPHALTIC EMULSION OR PAVING ASPHALT SHALL BE APPLIED TO EXISTING A.C. OR P.C.C. CONTACT SURFACES PRIOR TO RESURFACING.
5. ASPHALT CONCRETE RESURFACING:
   A. MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C. OR AS SHOWN ON PLAN.
   B. A.C. SHALL BE HOT PLANT MIX.
   C. TYPE C – SEE TABLE.
6. ALL A.C. RESURFACING SHALL BE SEAL COATED WITH AN EMULSIFIED ASPHALT AND COVERED WITH SAND. CHIP SEALING SHALL BE APPLIED AS REQUIRED BY AGENCY.
7. PAVEMENT FABRIC SHALL BE INSTALLED WHEN REQUIRED BY AGENCY.

TYPE B & C NOTES:

1. ASPHALT TRENCH CAPS IN STREETS NOT RECEIVING A FULL WIDTH OVERLAY PRIOR TO ACCEPTANCE SHALL BE BASE-PAVED TO MATCH EXISTING ADJACENT PAVEMENT SURFACE. NO LESS THAN 30 DAYS AFTER INITIAL ASPHALT PLACEMENT, TRENCH CAP SHALL BE MILLED AS SHOWN AND RESURFACED WITH 1/2" TYPE III CLASS C2 ASPHALT.
2. UPON APPROVAL OF ALL PIPELINE TESTING AND TIE-INS FROM THE AGENCY, THE CONTRACTOR SHALL COLD MILL THE TRENCH REPAIR TO A DEPTH OF 1-1/2", ONE FOOT WIDER THAN THE TRENCH WIDTH ON BOTH SIDES. WHEN EDGE OF COLD MILL LINE IS WITHIN 18" OF ANY STRUCTURE, EDGE OF PAVEMENT, ADJACENT TRENCH, OR OTHER PAVING JOIN LINE, THE COLD MILL SHALL BE EXTENDED TO THE EXISTING STRUCTURE, JOIN LINE, OR EDGE OF PAVEMENT.
3. ANY STREET TRENCH 7 FEET IN WIDTH OR GREATER AND LONGER THAN 100 FEET IN OVERALL LENGTH SHALL BE RECONSTRUCTED AS DIRECTED BY AGENCY.

TYPE D NOTES:

1. ALL AREAS OF EXISTING AC LESS THAN 48" WIDE REMAINING AFTER TRENCHING SHALL BE COLD MILLED AND PAVED PER TYPE D – PHASE II FINISH PAVING DETAIL.
2. PHASE II PAVING SHALL BE COMPLETED NOT EARLIER THAN 14 CALENDAR DAYS AND NOT LATER THAN 75 CALENDAR DAYS AFTER PHASE I PAVING.

Revision	By	Approved	Date
ORIGINAL	MR	MR/CV	03/12
REVIEWED	CV	CV	12/15

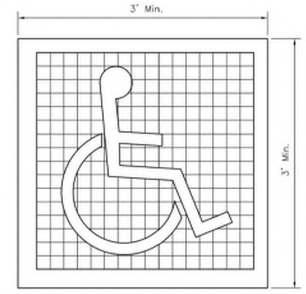
SAN DIEGO REGIONAL STANDARD DRAWING

TRENCH RESURFACING NOTES AND DETAILS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-24B



(a) SYMBOL PROPORTIONS

INTERNATIONAL SYMBOL OF ACCESSIBILITY

(b) DISPLAY CONDITIONS

NOTES

1. Pavement symbol shall be painted white on a blue background.
2. Blue color shall match color No. 15090 in the Federal Standard 595c as specified in Section 522(b)2.
3. ISA SYMBOL SHALL COMPLY WITH 11B-502.6 AND 11B-703.7.2.1.

Revision	By	Approved	Date
Revised	D. Genshaft		09/15
Reviewed	K. Esposito		10/18

SAN DIEGO REGIONAL STANDARD DRAWING

PAVEMENT SYMBOL– DISABLED PARKING

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER M-29

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB CVE

SB&O INC.
PLANNING ENGINEERING SURVEYING
3990 Ruffin Road, Suite 120
San Diego, Ca. 92123
858-560-1141
858-560-8157 Fax

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Middle School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09/19/22	DSA RESUBMITTAL
	04/29/22	DSA SUBMITTAL

SB&O PROJECT No:	74842.30
DRAWN BY:	CF/TP
CHECKED BY:	ALB

PRECISE GRADING PLAN

STANDARD DETAILS

C-03

REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

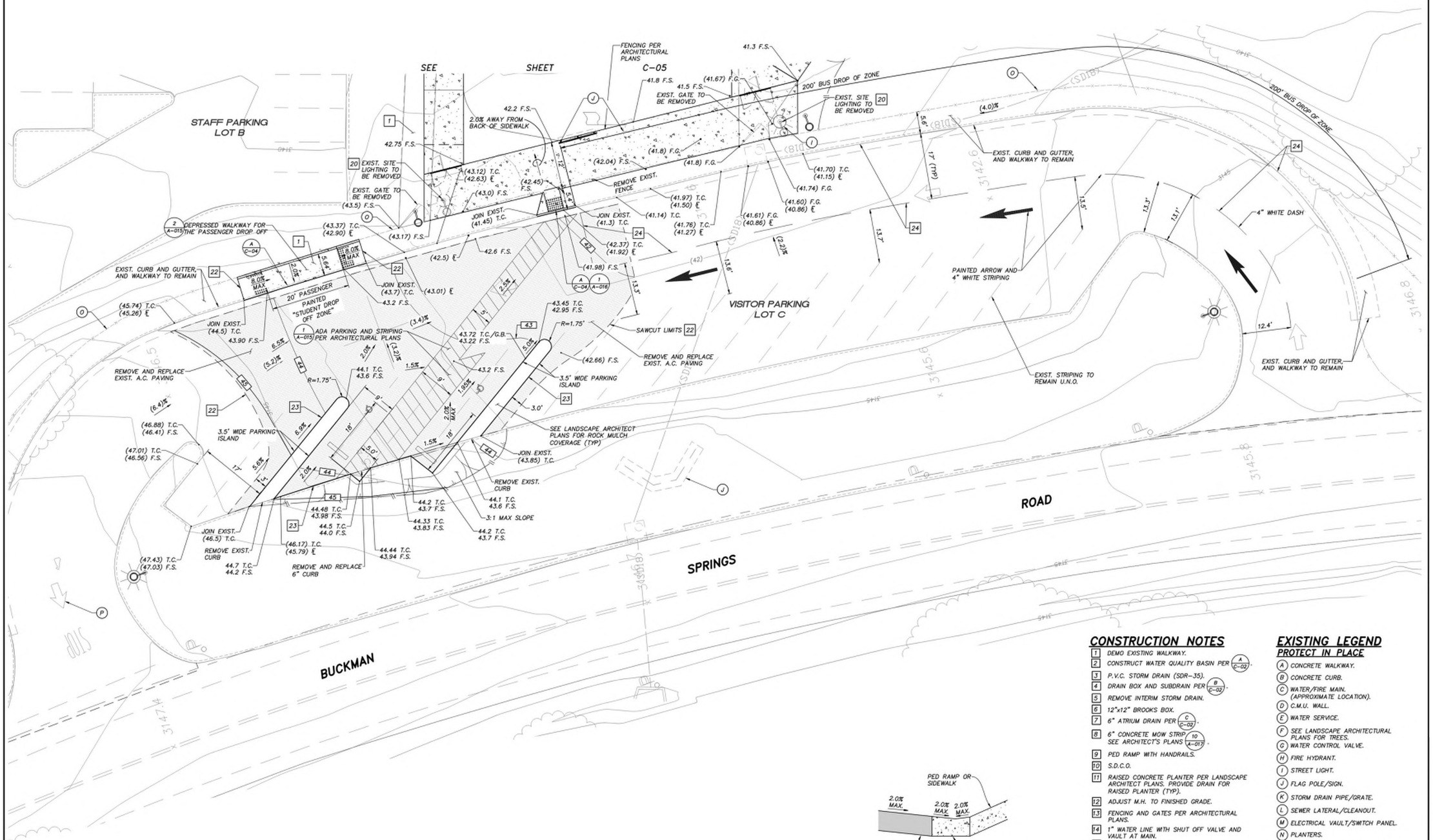
SB&O INC.
PLANNING ENGINEERING SURVEYING
3990 Ruffin Road, Suite 120
San Diego, Ca. 92123
858-560-1141
858-560-8157 Fax

Allen Butcher 9-21-22

ALLEN BUTCHER P.E. 47107 DATE

DIGALERT 811

Plotted: 9/21/2022 12:36 PM D:\74842 ME\SD\03 DWG\PGP\PHASE 1B MAIN OFFICE ENTRY\74842PG01-PG03.DWG - tony.p



PED RAMP OR SIDEWALK
2.0% MAX.
2.0% MAX.
2.0% MAX.
A.C. PAVING
MODIFIED CURB AND GUTTER

A / C-04 **DETAIL ~ MODIFIED GUTTER FLOW LINE-ADA COMPLIANT**
NOT TO SCALE

CONSTRUCTION NOTES

1. DEMO EXISTING WALKWAY.
2. CONSTRUCT WATER QUALITY BASIN PER (A / C-02).
3. P.V.C. STORM DRAIN (SDR-35).
4. DRAIN BOX AND SUBDRAIN PER (B / C-02).
5. REMOVE INTERIM STORM DRAIN.
6. 12"x12" BROOKS BOX.
7. 6" ATRIUM DRAIN PER (C / C-02).
8. 6" CONCRETE MOW STRIP, SEE ARCHITECT'S PLANS (10 / A-017).
9. PED RAMP WITH HANDRAILS.
10. S.D.C.O.
11. RAISED CONCRETE PLANTER PER LANDSCAPE ARCHITECT PLANS. PROVIDE DRAIN FOR RAISED PLANTER (TYP).
12. ADJUST M.H. TO FINISHED GRADE.
13. FENCING AND GATES PER ARCHITECTURAL PLANS.
14. 1" WATER LINE WITH SHUT OFF VALVE AND VAULT AT MAIN.
15. 4" SEWER (SDR-35).
16. DOWNSPOUT DRAIN TO PLANTER/LANDSCAPING.
17. CONNECT DOWNSPOUT TO NEAREST AREA DRAIN SYSTEM.
18. CONNECT TO EXISTING STORM DRAIN.
19. CONCRETE SIDEWALK. SEE CONCRETE PAVING NOTES ON SHEET C-01.
20. FOR SITE LIGHTING SEE E-100.
21. SYNTHETIC TURF PER ARCHITECTURAL PLANS, 2.0% MAX GRADE IN ALL DIRECTION.
22. SAWCUT, MATCH EXISTING.
23. 6" STRAIGHT CURB.
24. LIMITS OF BUS DROP ZONE.

EXISTING LEGEND

PROTECT IN PLACE

- (A) CONCRETE WALKWAY.
- (B) CONCRETE CURB.
- (C) WATER/FIRE MAIN. (APPROXIMATE LOCATION).
- (D) C.M.U. WALL.
- (E) WATER SERVICE.
- (F) SEE LANDSCAPE ARCHITECTURAL PLANS FOR TREES.
- (G) WATER CONTROL VALVE.
- (H) FIRE HYDRANT.
- (I) STREET LIGHT.
- (J) FLAG POLE/SIGN.
- (K) STORM DRAIN PIPE/GRATE.
- (L) SEWER LATERAL/CLEANOUT.
- (M) ELECTRICAL VAULT/SWITCH PANEL.
- (N) PLANTERS.
- (O) EXISTING FENCING AND GATES.
- (P) STRIPING.

SCALE: 1" = 10'
GRAPHIC SCALE
10' 0 10' 20' 30'

DIGALERT 811

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF DAVY ARCHITECTURE, INC. AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF DAVY ARCHITECTURE, INC. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

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REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

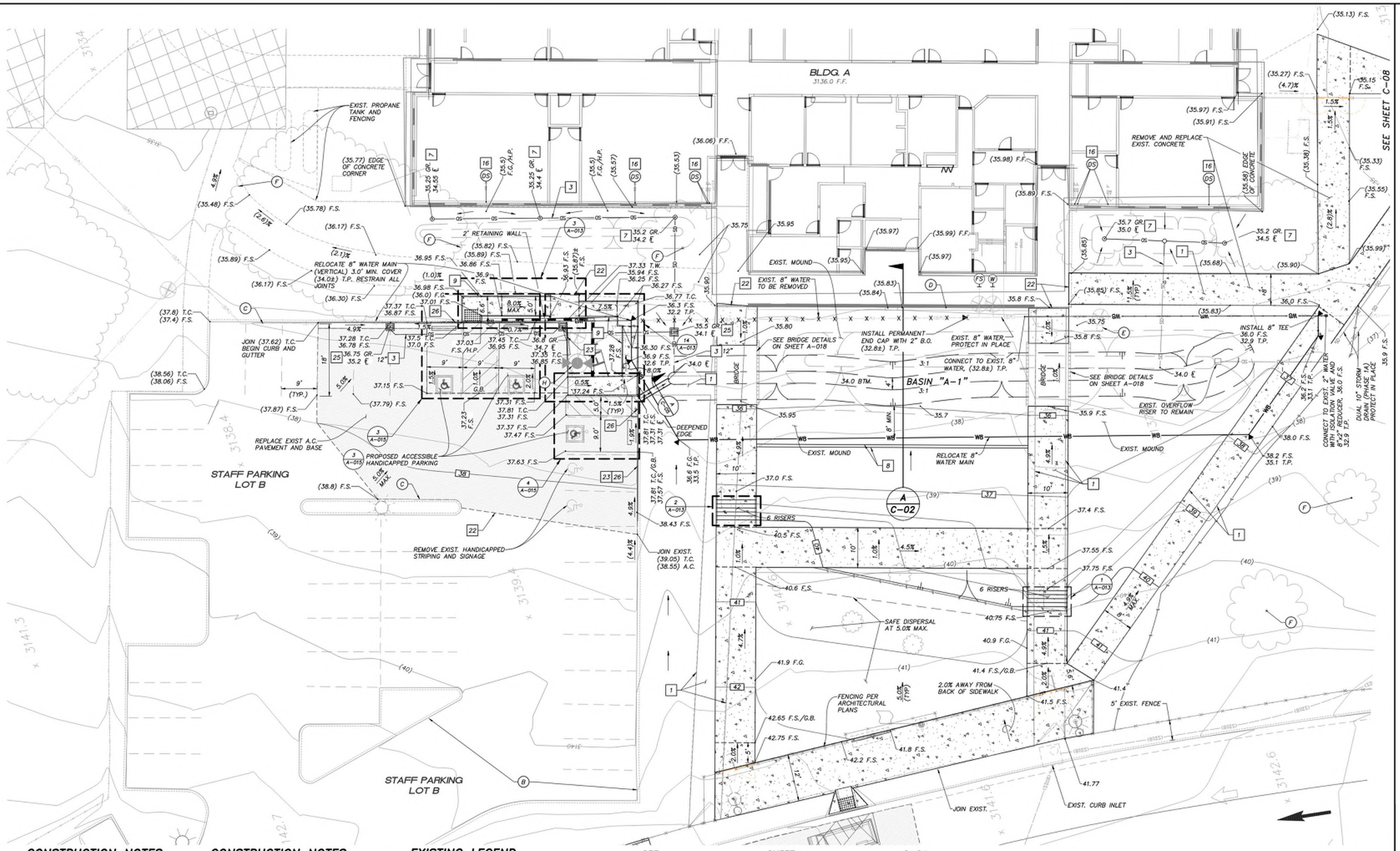
10-13-22
ALLEN BUTCHER P.E. 47107 DATE

PRECISE GRADING PLAN

FRONT PARKING LOT

C-04

Plotted: 10/13/2022 2:10 PM D:\74842 NEU\SD\03 DWG\PGP\PHASE 1B MAIN OFFICE ENTRY\74842PGN1.DWG - tony p



CONSTRUCTION NOTES

1. DEMO EXISTING WALKWAY.
2. CONSTRUCT WATER QUALITY BASIN PER (A/C-02).
3. P.V.C. STORM DRAIN (SDR-35).
4. DRAIN BOX AND SUBDRAIN PER (B/C-02).
5. REMOVE INTERIM STORM DRAIN.
6. 12"x12" BROOKS BOX.
7. 6" ATRIUM DRAIN PER (C/C-02).
8. 6" CONCRETE MOW STRIP SEE ARCHITECT'S PLANS (10/A-017).
9. PED RAMP WITH HANDRAILS.
10. S.D.C.O.
11. RAISED CONCRETE PLANTER PER LANDSCAPE ARCHITECT PLANS. PROVIDE DRAIN FOR RAISED PLANTER (TYP).
12. ADJUST M.H. TO FINISHED GRADE.
13. FENCING AND GATES PER ARCHITECTURAL PLANS.
14. 1" WATER LINE WITH SHUT OFF VALVE AND VAULT AT MAIN.
15. 4" SEWER (SDR-35).
16. DOWNSPOUT DRAIN TO PLANTER/LANDSCAPING.
17. CONNECT DOWNSPOUT TO NEAREST AREA DRAIN SYSTEM.
18. CONNECT TO EXISTING STORM DRAIN.
19. CONCRETE SIDEWALK. SEE CONCRETE PAVING NOTES ON SHEET C-01.
20. FOR SITE LIGHTING SEE E-100.

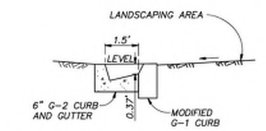
CONSTRUCTION NOTES

21. SYNTHETIC TURF PER ARCHITECTURAL PLANS, 2.0% MAX GRADE IN ALL DIRECTION.
22. SAWCUT, MATCH EXISTING.
23. 6" STRAIGHT CURB.
24. LIMITS OF BUS DROP ZONE.
25. 24"x24" BROOKS BOX.
26. 6" CURB AND GUTTER.

EXISTING LEGEND

PROTECT IN PLACE

- (A) CONCRETE WALKWAY.
- (B) CONCRETE CURB.
- (C) WATER/FIRE MAIN. (APPROXIMATE LOCATION).
- (D) C.M.U. WALL.
- (E) WATER SERVICE.
- (F) SEE LANDSCAPE ARCHITECTURAL PLANS FOR TREES.
- (G) WATER CONTROL VALVE.
- (H) FIRE HYDRANT.
- (I) STREET LIGHT.
- (J) FLAG POLE/SIGN.
- (K) STORM DRAIN PIPE/GRATE.
- (L) SEWER LATERAL/CLEANOUT.
- (M) ELECTRICAL VAULT/SWITCH PANEL.
- (N) PLANTERS.
- (O) EXISTING FENCING AND GATES.
- (P) STRIPING.



(A/C-05) SECTION ~ CURB PASS-THROUGH
NOT TO SCALE
SEE THIS SHEET

SCALE: 1" = 10'
GRAPHIC SCALE
10' 0 10' 20' 30'

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Middle School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
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	04/29/22	DSA SUBMITTAL

SB&O PROJECT No:	74842.30
DRAWN BY:	CF/TP
CHECKED BY:	ALB

PRECISE GRADING PLAN

BUILDING "A" ENTRY

C-05

REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

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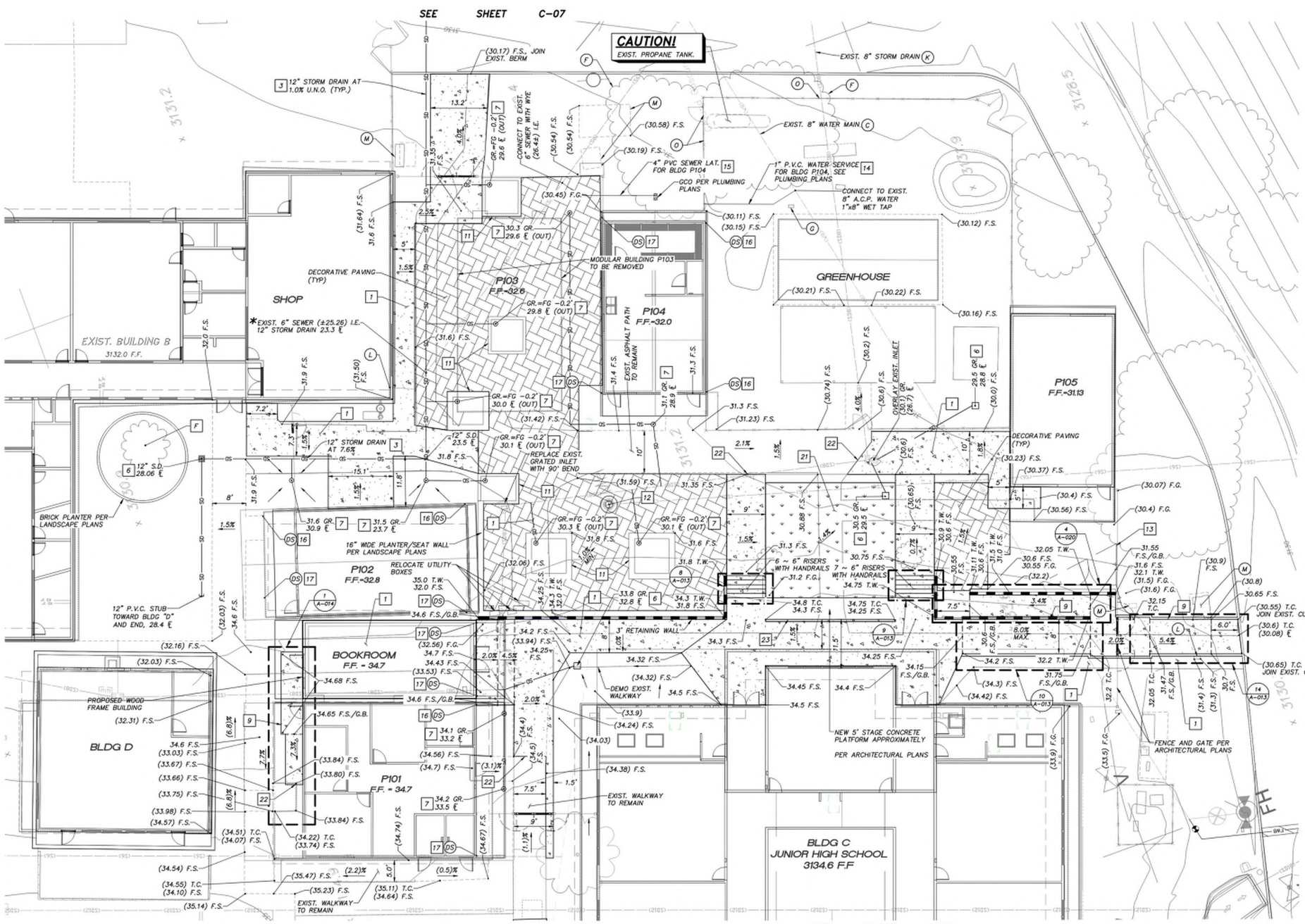
ALLEN BUTCHER P.E. 47107 10-14-22 DATE

Plotted: 10/14/2022 10:52 AM D:\74842.ME\SD\703.DWG\PDP\PHASE 1B MAIN OFFICE ENTRY\74842PC05.DWG - tonyp



SEE SHEET C-08

CONSTRUCTION NOTES

1. DEMO EXISTING WALKWAY.
2. CONSTRUCT WATER QUALITY BASIN PER (4/C-02).
3. P.V.C. STORM DRAIN (SDR-35).
4. DRAIN BOX AND SUBDRAIN PER (8/C-02).
5. REMOVE INTERIM STORM DRAIN.
6. 12"x12" BROOKS BOX.
7. 6" ATRIUM DRAIN PER (C/C-02).
8. 6" CONCRETE MOW STRIP SEE ARCHITECT'S PLANS (10/A-011).
9. PED RAMP WITH HANDRAILS.
10. S.D.C.O.
11. RAISED CONCRETE PLANTER PER LANDSCAPE ARCHITECT PLANS. PROVIDE DRAIN FOR RAISED PLANTER (TYP).
12. ADJUST M.H. TO FINISHED GRADE.
13. FENCING AND GATES PER ARCHITECTURAL PLANS.
14. 1" WATER LINE WITH SHUT OFF VALVE AND VAULT AT MAIN.
15. 4" SEWER (SDR-35).
16. DOWNSPOUT DRAIN TO PLANTER/LANDSCAPING.
17. CONNECT DOWNSPOUT TO NEAREST AREA DRAIN SYSTEM.
18. CONNECT TO EXISTING STORM DRAIN.
19. CONCRETE SIDEWALK. SEE CONCRETE PAVING NOTES ON SHEET C-01.
20. FOR SITE LIGHTING SEE E-100.
21. SYNTHETIC TURF PER ARCHITECTURAL PLANS, 2.0% MAX GRADE IN ALL DIRECTION.
22. SAWCUT, MATCH EXISTING.
23. 6" STRAIGHT CURB.
24. LIMITS OF BUS DROP ZONE.

EXISTING LEGEND

PROTECT IN PLACE

- (A) CONCRETE WALKWAY.
- (B) CONCRETE CURB.
- (C) WATER/FIRE MAIN. (APPROXIMATE LOCATION).
- (D) C.M.U. WALL.
- (E) WATER SERVICE.
- (F) SEE LANDSCAPE ARCHITECTURAL PLANS FOR TREES.
- (G) WATER CONTROL VALVE.
- (H) FIRE HYDRANT.
- (I) STREET LIGHT.
- (J) FLAG POLE/SIGN.
- (K) STORM DRAIN PIPE/GRATE.
- (L) SEWER LATERAL/CLEANOUT.
- (M) ELECTRICAL VAULT/SWITCH PANEL.
- (N) PLANTERS.
- (O) EXIST. FENCING AND GATE.
- (P) STRIPING.

*** NOTE:**
CONTRACTOR TO POTHOLE EXIST. UTILITIES BEFORE CONSTRUCTION.

SCALE: 1" = 10'
GRAPHIC SCALE
10' 0 10' 20' 30'

DIGALERT 811

IDENTIFICATION STAMP
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Mountain Empire Unified
School Disctrict

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REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

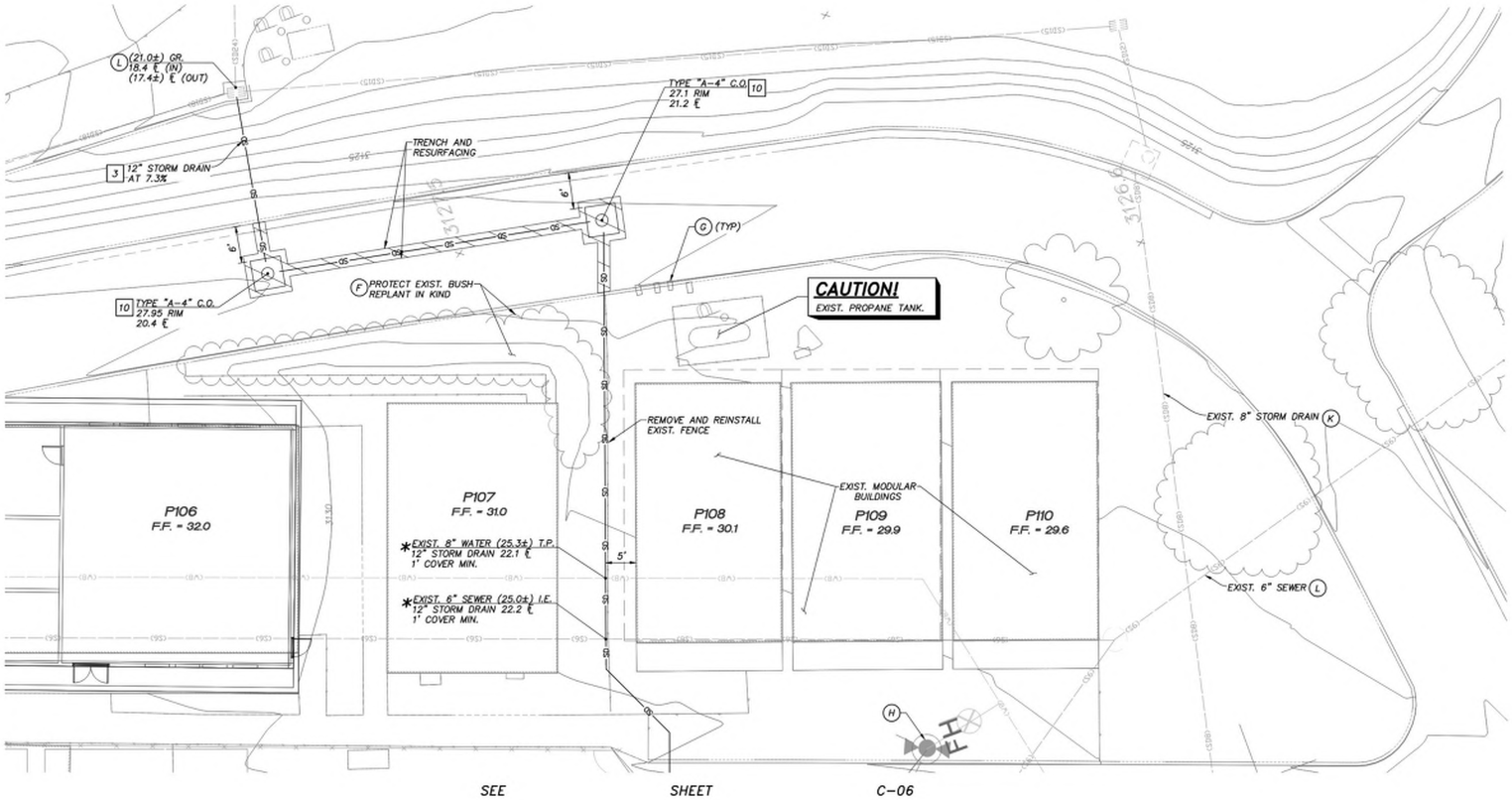
ALLEN BUTCHER P.E. 47107 10-13-22
DATE

PRECISE GRADING PLAN

JUNIOR HIGH SCHOOL COURTYARD

C-06

Plotted: 10/14/2022 8:54 AM D:\74842 MES\SD\03 DWG\PGP\PHASE 1B MAIN OFFICE ENTRY\74842PG06-PG07.DWG - tony p



CONSTRUCTION NOTES

1. DEMO EXISTING WALKWAY.
2. CONSTRUCT WATER QUALITY BASIN PER (A C-02).
3. P.V.C. STORM DRAIN (SDR-35).
4. DRAIN BOX AND SUBDRAIN PER (B C-02).
5. REMOVE INTERIM STORM DRAIN.
6. 12"x12" BROOKS BOX.
7. 6" ATRIUM DRAIN PER (C C-02).
8. 6" CONCRETE MOW STRIP BY OTHERS.
9. PED RAMP WITH HANDRAILS.
10. S.D.C.O.
11. RAISED CONCRETE PLANTER PER LANDSCAPE ARCHITECT PLANS. PROVIDE DRAIN FOR RAISED PLANTER (TYP).
12. ADJUST M.H. TO FINISHED GRADE.
13. FENCING AND GATES PER ARCHITECTURAL PLANS.
14. 1" WATER LINE WITH SHUT OFF VALVE AND VAULT AT MAIN.
15. 4" SEWER (SDR-35).
16. DOWNSPOUT DRAIN TO PLANTER/LANDSCAPING.
17. CONNECT DOWNSPOUT TO NEAREST AREA DRAIN SYSTEM.
18. CONNECT TO EXISTING STORM DRAIN.
19. CONCRETE SIDEWALK. SEE CONCRETE PAVING NOTES ON SHEET C-01.
20. FOR SITE LIGHTING SEE E-100.
21. SYNTHETIC TURF PER ARCHITECTURAL PLANS, 2.0% MAX GRADE IN ALL DIRECTION.
22. SAWCUT, MATCH EXISTING.
23. 6" STRAIGHT CURB.
24. LIMITS OF BUS DROP ZONE.

EXISTING LEGEND

PROTECT IN PLACE

- (A) CONCRETE WALKWAY.
- (B) CONCRETE CURB.
- (C) WATER/FIRE MAIN. (APPROXIMATE LOCATION).
- (D) C.M.U. WALL.
- (E) WATER SERVICE.
- (F) SEE ARCHITECTURAL PLANS FOR TREES.
- (G) WATER CONTROL VALVE.
- (H) FIRE HYDRANT.
- (I) STREET LIGHT.
- (J) FLAG POLE/SIGN.
- (K) STORM DRAIN PIPE/GRATE.
- (L) SEWER LATERAL/CLEANOUT.
- (M) ELECTRICAL VAULT/SWITCH PANEL.
- (N) CMU WALL PLANTERS.
- (O) EXIST. FENCING AND GATE.
- (P) STRIPING.

***NOTE:** CONTRACTOR TO POTHOLE EXIST. UTILITIES BEFORE CONSTRUCTION.

DIGALERT 811

SCALE: 1" = 10'

GRAPHIC SCALE

10' 0 10' 20' 30'

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ALLEN BUTCHER P.E. 47107 — 9-21-22 DATE

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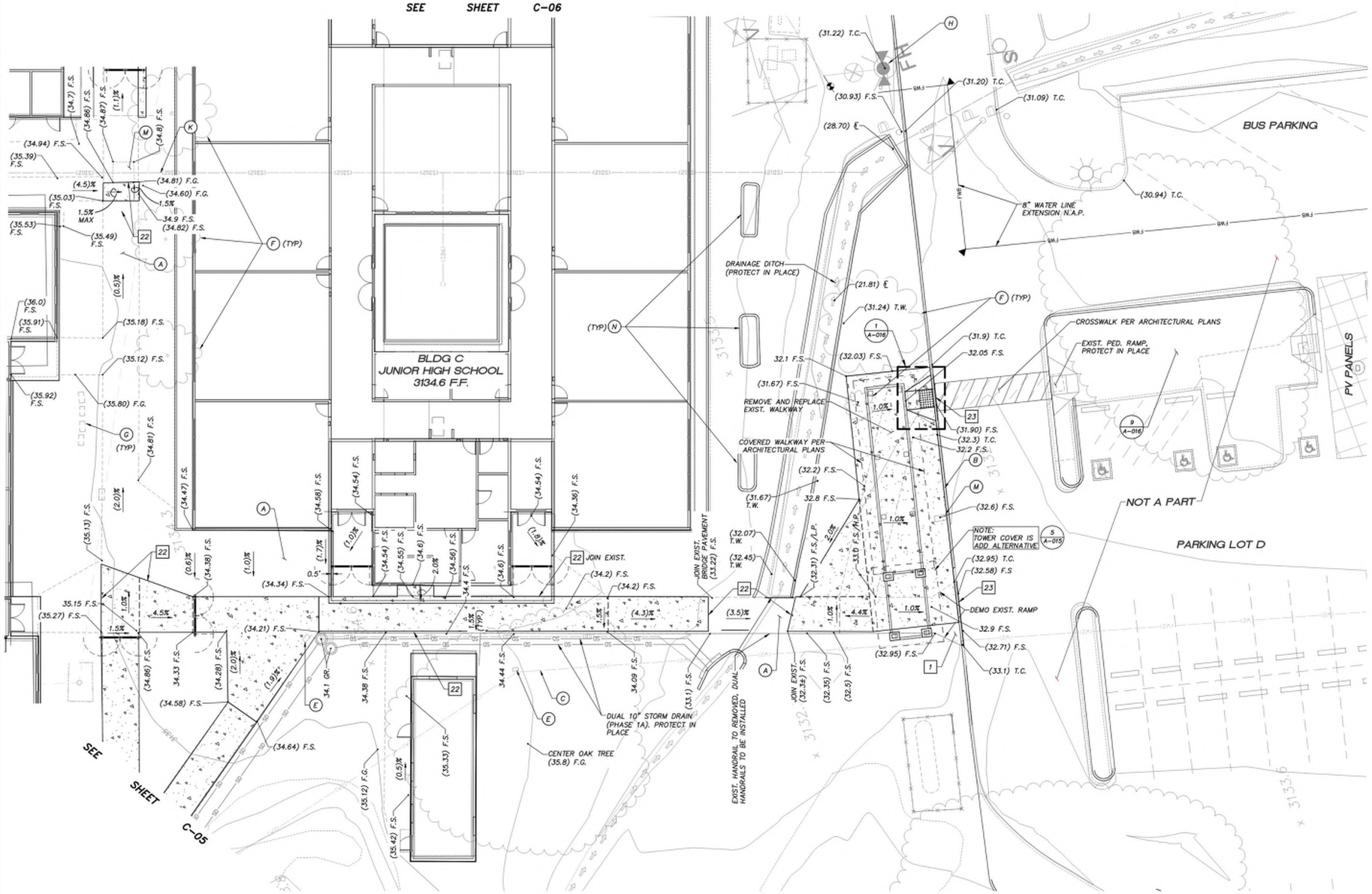
CHECKED BY:	ALB

PRECISE GRADING PLAN

STORM DRAIN AND STRUCTURES

C-07

Plotted: 9/21/2022 12:39 PM ID:74842 ME\SD\03 DWG\PDP\PHASE 1B MAIN OFFICE ENTRY\74842PG06-PG07.DWG - tonyp



CONSTRUCTION NOTES

1. DEMO EXISTING WALKWAY.
2. CONSTRUCT WATER QUALITY BASIN PER (A/C-02).
3. P.V.C. STORM DRAIN (SDR-35).
4. DRAIN BOX AND SUBDRAIN PER (B/C-02).
5. REMOVE INTERIM STORM DRAIN.
6. 12"x12" BROOKS BOX.
7. 6" ATRIUM DRAIN PER (C/C-02).
8. 6" CONCRETE MOW STRIP BY OTHERS.
9. PED RAMP WITH HANDRAILS.
10. S.D.C.O.
11. RAISED CONCRETE PLANTER PER LANDSCAPE ARCHITECT PLANS. PROVIDE DRAIN FOR RAISED PLANTER (TYP).
12. ADJUST M.H. TO FINISHED GRADE.
13. FENCING AND GATES PER ARCHITECTURAL PLANS.
14. 1" WATER LINE WITH SHUT OFF VALVE AND VAULT AT MAIN.
15. 4" SEWER (SDR-35).
16. DOWNSPOUT DRAIN TO PLANTER/LANDSCAPING.
17. CONNECT DOWNSPOUT TO NEAREST AREA DRAIN SYSTEM.
18. CONNECT TO EXISTING STORM DRAIN.
19. CONCRETE SIDEWALK. SEE CONCRETE PAVING NOTES ON SHEET C-01.
20. FOR SITE LIGHTING SEE E-100.
21. SYNTHETIC TURF PER ARCHITECTURAL PLANS, 2.0% MAX GRADE IN ALL DIRECTION.
22. SAWCUT, MATCH EXISTING.
23. 6" STRAIGHT CURB.
24. LIMITS OF BUS DROP ZONE.

EXISTING LEGEND

PROTECT IN PLACE

- (A) CONCRETE WALKWAY.
- (B) CONCRETE CURB.
- (C) WATER/FIRE MAIN. (APPROXIMATE LOCATION).
- (D) C.M.U. WALL.
- (E) WATER SERVICE.
- (F) SEE LANDSCAPE ARCHITECTURAL PLANS FOR TREES.
- (G) WATER CONTROL VALVE.
- (H) FIRE HYDRANT.
- (I) STREET LIGHT.
- (J) FLAG POLE/SIGN.
- (K) STORM DRAIN PIPE/GRATE.
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- (M) ELECTRICAL VAULT/SWITCH PANEL.
- (N) PLANTERS.
- (O) EXIST. FENCING AND GATE.
- (P) STRIPING.

*** NOTE:**
CONTRACTOR TO POTHOLE EXIST. UTILITIES BEFORE CONSTRUCTION.

SCALE: 1" = 10'
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	09/19/22	DSA RESUBMITTAL
	04/29/22	DSA SUBMITTAL

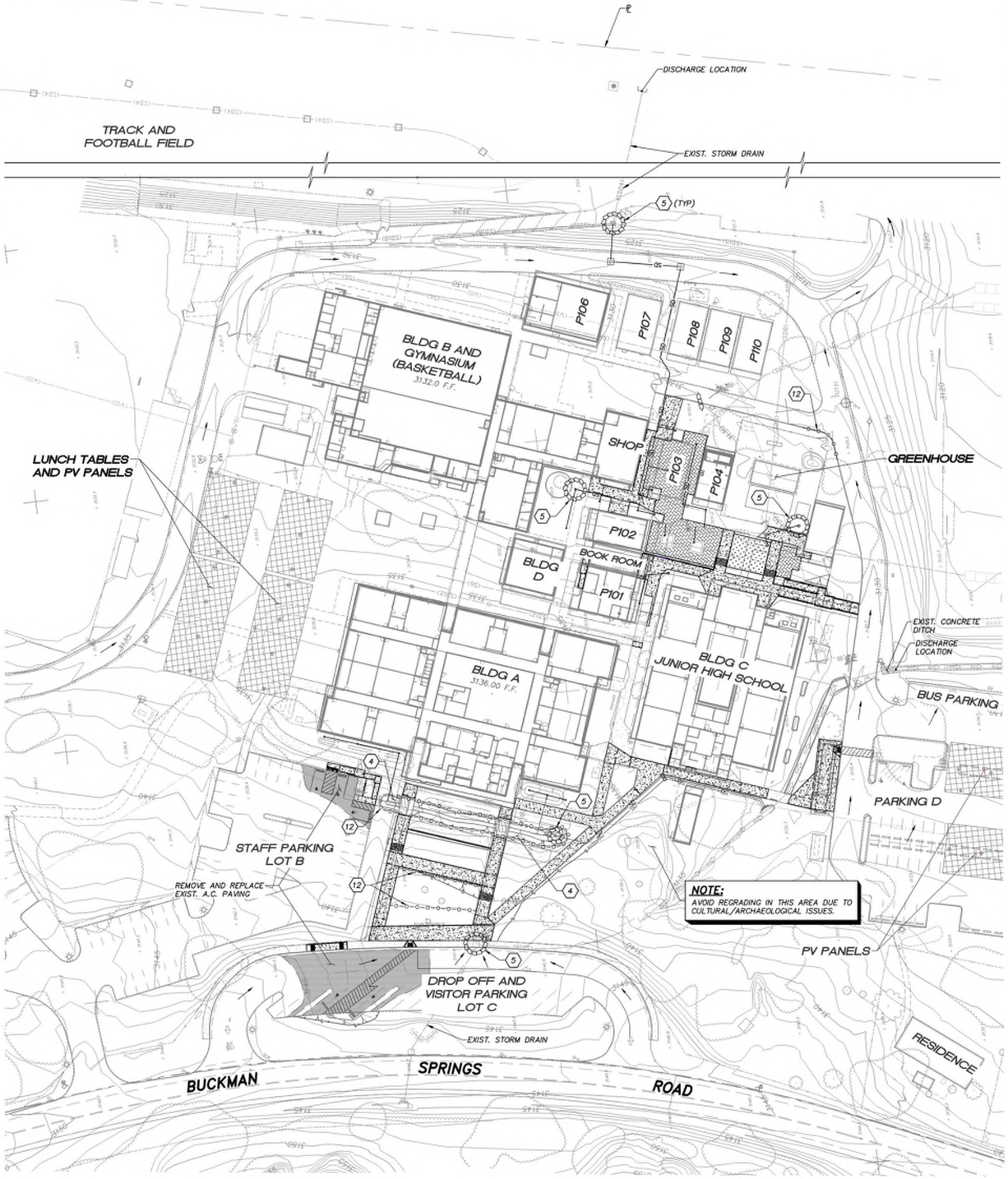
SB&O PROJECT No:	74842.30
DRAWN BY:	CF/TP
CHECKED BY:	ALB

PRECISE GRADING PLAN

BUILDING "C" AND PARKING LOT

C-08

Plotted: 10/13/2022 3:10 PM D:\74842 ME\USD\03 DWG\PGP PHASE 1B MAIN OFFICE ENTRY\74842PG08.DWG - tony.p



SCALE: 1" = 40'

GRAPHIC SCALE

40' 0 40' 80' 120'

DIGALERT 811

LEGEND

DESCRIPTION	CASQA STD. DWG.	SYMBOL
EARTH SWALE		
DIRECTION OF DRAINAGE		
STABILIZED SLOPES WITH SOIL BINDER	EC-4	
STABILIZED CONSTRUCTION ENTRY	TC-1	
SILT FENCE	SE-1	
GRAVEL BAGS (SINGLE ROW)		
INLET PROTECTION	SE-10	
FIBER ROLL	SE-5	
STORM DRAIN		
STORM DRAIN CLEANOUT		
AREA DRAIN		
CONSTRUCTION TRAILER		
STORM DRAIN INSPECTION I.D. NO.		A5
ANTICIPATED SAMPLING POINT		5
* CONCRETE WASHOUT	WM-8	CW
* MATERIAL STORAGE AREA	WM-1	MS
* SANITARY FACILITIES	WM-9	TF
* WASTE STORAGE AREA	WM-5	T
* SOIL STOCKPILE	WM-3	SS
* LANDSCAPE STOCKPILE	WM-3	LS
* EROSION CONTROL STOCKPILE	WM-1	EC
* MATERIAL STOCKPILE	WM-1	MS
* FUELING AREA	WS-9	FA
* VEHICLE MAINTENANCE	NS-10	VM
* VEHICLE PARKING		VP
* EQUIPMENT STORAGE		ES
* HAZARDOUS MATERIAL STORAGE	WM-6	HM
* CLEANUP MATERIALS		CM

EROSION CONTROL NOTES

1. ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
2. TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
3. MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
4. AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1 ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS BETWEEN OCTOBER 1 AND APRIL 15. APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEM SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
6. SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
7. THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF THE SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE SAND BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

SILTATION AND SEDIMENT CONTROL MEASURES NOTES:

1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
3. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE.
4. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS WITH A TOP ELEVATION TWO SANDBAGS BELOW THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN SANDBAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE BUT NOT TO EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

5. AFTER SEWER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
6. ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
7. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET

8. PROVIDE A SANDBAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
9. SANDBAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
10. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
11. PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR FROM IMPERVIOUS SURFACES.
12. ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES: I.E., COUNTY ENGINEER, DEPARTMENT OF SANITATION AND FLOOD CONTROL, OFFICE OF ENVIRONMENTAL MANAGEMENT, ETC.

CONSTRUCTION NOTES

DESCRIPTION	CASQA STANDARD
(1) INSTALL STABILIZED CONSTRUCTION ENTRY.	TC-1
(2) INSTALL SILT FENCE. —x—x—x—	SE-1
(3) INSTALL FIBER ROLLS (20' HORIZONTALLY). —o—o—o—o—o—	SE-5
(4) STABILIZE ALL SLOPES GREATER THAN 3' IN HEIGHT.	EC-4
(5) PROVIDE INLET PROTECTION.	SE-10
(6) SINGLE ROW GRAVEL BAGS.	SE-6, SE-8, SE-10
(7) PROVIDE VELOCITY CHECK DAMS AT 50' INTERVALS.	SE-8
(8) STREET SWEEPING.	SE-7
(9) PAD STABILIZATION.	EC-3 THROUGH EC-8
(10) WIND EROSION.	WE-1
(11) A BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROCESS. CONCENTRATED WATER SHALL BE CARRIED NOT CLOSER THAN 10 FEET FROM THE TOP OF SLOPES	
(12) INSTALL FIBER ROLLS AT TOE OF SLOPE AND RIGHT-OF-WAY LIMITS. —o—o—o—o—	SE-5

NOTICE

EFFECTIVE SOIL COVER MUST BE EMPLOYED FOR INACTIVE AREAS WHICH INCLUDES ALL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL, AND COMPLETED PADS. INACTIVE AREAS OF CONSTRUCTION ARE AREAS THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST 14 DAYS.

*** CONTRACTOR IS TO UPDATE S.W.P.P.P. WALL MAP (THIS EXHIBIT) TO REFLECT ACTUAL B.M.P. LOCATIONS.**

STORMWATER PROTECTION NOTES

1. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% OF ALL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
2. NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY DPW DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LON-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
3. THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMP'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
4. ON PROJECTS OF GREATER THAN 1 ACRE ADD THE FOLLOWING NOTE: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND THAT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [INSERT] [ALTERNATIVE: NOT YET ASSIGNED, BUT WILL BE PROVIDED BEFORE A PERMIT IS ISSUED]. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.

STORM WATER RUN OFF MANAGEMENT NOTES

1. THE OWNER AND/OR OWNER'S CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH A PLAN TO IMPLEMENT BEST MANAGEMENT PRACTICE TO ELIMINATE POLLUTANT DISCHARGE TO THE PUBLIC STORM DRAIN SYSTEM. SUCH PLAN SHALL BE SUBMITTED TO AND REVIEWED BY THE CITY ENGINEER PRIOR TO ANY SOIL DISTURBANCE GRADING, CLEARING OF VEGETATIVE MATTER, AND/OR CONSTRUCTION ON THE SITE.
2. THE PLAN SHALL PROVIDE THAT NO SAND, SILT OR DEBRIS SHALL BE ALLOWED TO ENTER THE STORM DRAIN SYSTEM INCLUDING PUBLIC STREETS.
3. THE OWNER AND/OR THE OWNER'S CONTRACTOR SHALL IMPLEMENT THE PLAN AND TAKE REMEDIAL AND PREVENTATIVE ACTION IMMEDIATELY WHEN POLLUTANT DISCHARGE OCCURS AND/OR THE CITY ENGINEER OR THE BUILDING DIVISION DIRECTS.
4. THE ABOVE SHALL APPLY STARTING THE 1ST DAY OF GRADING AND/OR CONSTRUCTION AND SHALL REMAIN IN EFFECT UNTIL ALL GRADING AND/OR CONSTRUCTION WORK HAS BEEN COMPLETED.

EROSION AND SEDIMENT CONTROL NOTES

1. IN CASE OF EMERGENCY WORK IS REQUIRED, CONTACT _____
2. EROSION CONTROL MEASURES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE PUBLIC WORKS INSPECTOR.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT AND UNTIL PERMANENT GROUND COVER AND LANDSCAPING IS ESTABLISHED.
4. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEER DUE TO COMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
6. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
7. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4 INCH MINIMUM AGGREGATE.

WET SEASON (OCTOBER 1 THROUGH APRIL 30)

IN ADDITION TO THE DRY SEASON REQUIREMENTS:

1. PERIMETER PROTECTION AND SEDIMENT CONTROL BMPS MUST BE UPGRADED IF NECESSARY TO PROVIDE SUFFICIENT PROTECTION FOR STORMS.
2. ADEQUATE EROSION PREVENTION BMPS MUST BE INSTALLED AND ESTABLISHED FOR ALL COMPLETED SLOPES PRIOR TO OCTOBER 1 AND MAINTAINED THROUGHOUT THE WET SEASON. IF A BMP FAILS, IT MUST BE REPAIRED, IMPROVED OR REPLACED WITH AN ACCEPTABLE ALTERNATE AS SOON AS IT IS SAFE TO DO SO.
3. THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED STANDBY EROSION AND SEDIMENT CONTROL BMP CAPACITY.
4. AN INCOMPLETE DISTURBED AREA THAT IS NOT BEING ACTIVELY GRADED MUST BE FULLY PROTECTED FROM EROSION IF LEFT FOR 10 DAYS OR MORE.

DRY SEASON (MAY 1 THROUGH SEPTEMBER 30)

1. ALL EXPOSED DISTURBED AREAS MUST HAVE EROSION PREVENTION CONTROLS PROPERLY INSTALLED INCLUDING BUILDING PADS, UNFINISHED ROADS AND SLOPES. SLOPES LESS THAN 33.3% OR 1:3 (VERTICAL VS. HORIZONTAL) MAY USE PROPERLY DESIGNED AND INSTALLED DE-SILTING BASINS AT ALL DISCHARGE POINTS IN LIEU OF THIS REQUIREMENT.
2. ADEQUATE PERIMETER PROTECTION BMPS MUST BE INSTALLED AND MAINTAINED.
3. ADEQUATE SEDIMENT CONTROL BMPS MUST BE INSTALLED AND MAINTAINED.
4. ADEQUATE BMPS DESIGNED TO CONTROL OFF-SITE SEDIMENT TRACKING MUST BE INSTALLED AND MAINTAINED.
5. AT A MINIMUM, 125% OF THE MATERIALS NEEDED TO INSTALL STANDBY BMPS NECESSARY TO COMPLETELY PROTECT EXPOSED PORTIONS OF THE SITE FROM EROSION AND PREVENT SEDIMENT DISCHARGES MUST BE STORED ON THE SITE.
6. AN APPROVED "WEATHER TRIGGERED" RESPONSE PLAN IS MANDATED FOR IMPLEMENTATION IN THE EVENT THAT A PREDICTED STORM EVENT HAS A 50% CHANCE OF RAIN. THE PROPONENT MUST HAVE THE CAPACITY TO DEPLOY THE STANDBY BMPS WITHIN 48 HOURS OF THE PREDICTED STORM EVENT.
7. ALL SLOPES MUST BE EQUIPPED WITH EROSION PREVENTIONS BMPS AS SOON AS SLOPES ARE COMPLETED FOR ANY PORTION OF THE SITE.
8. CLEARED OR GRADED AREAS LEFT EXPOSED AT ANY GIVEN TIME ARE LIMITED TO THE AMOUNT OF ACREAGE THAT THE PROJECT PROPONENT CAN ADEQUATELY PROTECT PRIOR TO A PREDICTED STORM EVENT.

REGISTERED PROFESSIONAL ENGINEER — ALLEN L. BUTCHER — No. 47107 — CIVIL — STATE OF CALIFORNIA

Allen Butcher 9-21-22

ALLEN BUTCHER P.E. 47107 DATE

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PLANNING ENGINEERING SURVEYING
3990 Ruffin Road, Suite 120
San Diego, Ca. 92123
858-560-1141
858-560-8157 Fax

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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SDVOSB

SB&O INC.
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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Middle School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09/19/22	DSA RESUBMITTAL
	04/29/22	DSA SUBMITTAL

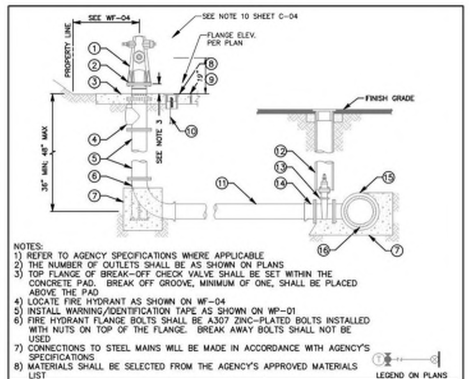
SB&O PROJECT No:	74842.30
DRAWN BY:	CF/TP
CHECKED BY:	ALB

PRECISE GRADING PLAN

EROSION CONTROL PLAN

C-09

Plotted: 9/20/2022 11:16 AM D:\74842 ME\SD\DO\ DWG\PGP\PHASE 1B MAIN OFFICE ENTRY\74842PG09.DWG - tony p



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) THE NUMBER OF OUTLETS SHALL BE AS SHOWN ON PLANS
3) TOP FLANGE OF BREAK-OFF CHECK VALVE SHALL BE SET WITHIN THE CONCRETE PAD. BREAK OFF GROOVE, MINIMUM OF ONE, SHALL BE PLACED ABOVE THE PAD
4) LOCATE FIRE HYDRANT AS SHOWN ON WF-04
5) INSTALL WARNING/IDENTIFICATION TAPE AS SHOWN ON WP-01
6) FIRE HYDRANT FLANGE BOLTS SHALL BE A307 ZINC-PLATED BOLTS INSTALLED WITH NUTS ON TOP OF THE FLANGE. BREAK AWAY BOLTS SHALL NOT BE USED
7) CONNECTIONS TO STEEL MAINS WILL BE MADE IN ACCORDANCE WITH AGENCY'S SPECIFICATIONS
8) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

LEGEND ON PLANS

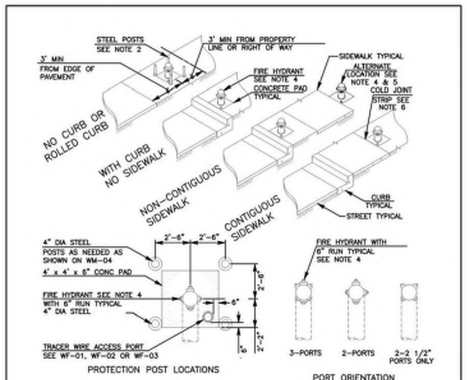
ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
(1)	6" FIRE HYDRANT SEE NOTE 2	(9)	COLD JOINT STRIP
(2)	BOLTS, SEE NOTE 6	(10)	TRACER WIRE (AS REQUIRED) PER WP-01
(3)	4' x 4' x 8" THICK CONCRETE SPLASH PAD	(11)	6" C-900 PVC PIPE
(4)	6" BREAK-OFF CHECK VALVE	(12)	GATE WELL WITH CAP SEE WV-01 OR WV-02
(5)	6" FLANGE DI SPOOL(S) (MAXIMUM OF 2 SPOOLS) NO GROOVES	(13)	6" FLG x MJ/PO/FLG RWGV
(6)	6" x 16" LONG RADIUS FLG x MJ/PO BURY ELL	(14)	6" FLG x MJ/PO ADAPTER (IF REQUIRED)
(7)	CONCRETE THRUST BLOCK SEE WT-01	(15)	SIZE x 6" MJ/PO/FLG x FLG TEE
(8)	TRACER WIRE ACCESS PORT, 4" x 8" LONG SDR 35 SEWER PIPE W/ CAP (AS-REQUIRED)	(16)	WATER MAIN

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-15		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Updated	BK	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

6" FIRE HYDRANT INSTALLATION WITH BREAK-OFF CHECK VALVE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WF-02



PROTECTION POST LOCATIONS

PORT ORIENTATION

NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) PROTECTION POSTS SHALL BE INSTALLED AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER PER WM-04
3) LOCATE FIRE HYDRANT AS SHOWN ABOVE OR AS DIRECTED BY THE ENGINEER
4) FIRE HYDRANTS SHALL BE INSTALLED WITH THE LARGEST PORT PERPENDICULAR TO THE STREET
5) AN EASEMENT MAY BE NEEDED DEPENDING ON LOCATION OF FIRE HYDRANT
6) IF THE CONCRETE SLAB IS TO BE INSTALLED ADJACENT TO A CONCRETE CURB OR SIDEWALK A COLD JOINT STRIP SHALL BE INSTALLED
7) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

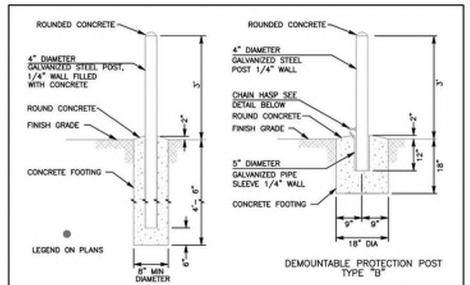
LEGEND ON PLANS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-15		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Updated	BK	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

FIRE HYDRANT LOCATIONS AND PORT ORIENTATION

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WF-04



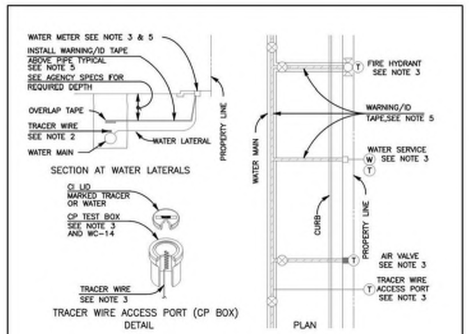
NOTES:
1) TYPE "A" AND TYPE "B" PROTECTION POSTS SHALL BE INSTALLED WHERE INDICATED ON THE APPROVED PLANS OR AS DIRECTED BY THE ENGINEER. SDG&E REQUIREMENTS DICTATE IN AREAS OF SDG&E EQUIPMENT
2) CHAIN TO BE 1/4" PROOF COIL CHAIN GALVANIZED STEEL. WELD 4-LINK SEGMENT TO POST AND 3-LINK SEGMENT TO SLEEVE
3) TYPE "A" AND TYPE "B" PROTECTION POSTS SHALL BE COATED USING SAFETY YELLOW IN ACCORDANCE WITH AGENCY'S STANDARDS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-15		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Updated	BK	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

PROTECTION POST INSTALLATION

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WM-04



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) WHERE SPECIFIED, TRACER WIRE AND OR WARNING ID TAPE, TO RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH OF WATER MAINS. WIRE SHALL BE SECURED TO THE PIPE AND MAINTAINED ON PIPE CENTERLINE DURING TRENCH BACKFILL
3) TRACER WIRE ACCESS PORTS SHALL BE INSTALLED WITHIN THE CONCRETE SPLASH PAD OF ALL FIRE HYDRANTS IN ACCORDANCE WITH THE STANDARD DRAWINGS. TRACER WIRE MAY TERMINATE WITHIN METER BOX, BLOWOFF BOX OR AIR VALVE PER AGENCY'S SPECIFICATIONS. TRACER WIRE MAY TERMINATE IN A CP TEST BOX ONLY IF NO OTHER APPURTENANCE EXISTS WITHIN THE REQUIRED 1,000' INTERVAL. ALL BURIED WIRES THAT REQUIRE TRENCHING TO A TEST BOX LOCATION SHALL BE INSTALLED, WITHOUT SPLICE, IN A CONDUIT IN THE TRENCH AT A MINIMUM DEPTH OF 24"
4) WIRE SPLICE CONNECTORS SHALL BE SILICONE FILLED TYPE
5) WARNING/IDENTIFICATION TAPE SHALL BE INSTALLED ABOVE THE PIPE AS SPECIFIED AND RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH OF THE PIPE AND ALL RELATED APPURTENANCES
6) FOR PIPE BEDDING AND TRENCH BACKFILL SEE WP-02
7) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

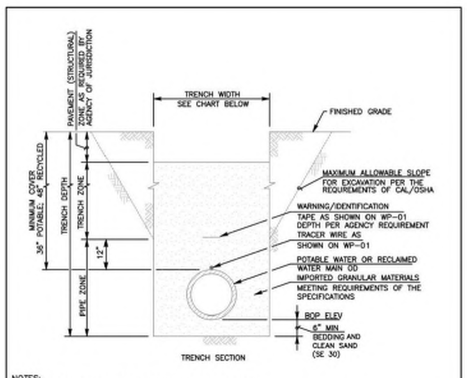
LEGEND ON PLANS (TRACER WIRE)

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-15		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Updated	BK	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

WARNING/IDENTIFICATION TAPE AND TRACER WIRE INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WP-01



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) PAVING OR PAVEMENT REPAIR TO BE DONE IN ACCORDANCE TO CITY OR COUNTY STANDARDS
3) EXCAVATE BELL HOLES AT EACH PIPE JOINT TO PERMIT PROPER ASSEMBLY AND INSPECTION OF THE ENTIRE JOINT
4) ALL PIPELINE TRENCHES SHALL BE EXCAVATED SO THAT THE DISTANCE BETWEEN TRENCH WALLS AT THE TOP OF PIPE SHALL BE AS SHOWN BELOW:

TRENCH WIDTH

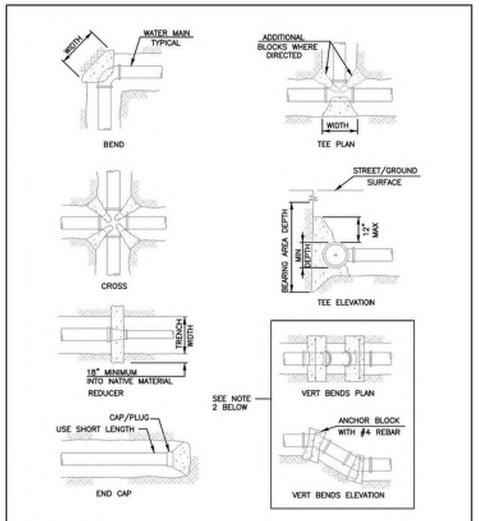
NOMINAL PIPE INSIDE DIAMETER	MINIMUM DISTANCE	MAXIMUM DISTANCE
4" & SMALLER	18"	28"
6" & 8"	24"	32"
10" & 12"	28"	36"
16" THRU 36"	OD PLUS 24"	OD PLUS 36"

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-15		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Updated	BK	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

PIPE BEDDING AND TRENCH BACKFILL FOR POTABLE AND RECYCLED WATER MAINS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WP-02



NOTES:
1) FOR ADDITIONAL THRUST BLOCKS, ANCHOR BLOCKS AND NOTES SEE WT-01 (2 OF 3) & (3 OF 3)
2) THE ANCHOR BLOCKS ON VERTICAL BENDS REQUIRE AGENCY APPROVAL

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Repl. W-15 Thrust, W-20		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Reviewed	MR	B. KNOLL	10/15
Reviewed	MR	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE THRUST AND ANCHOR BLOCK INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WT-01 (1 OF 3)

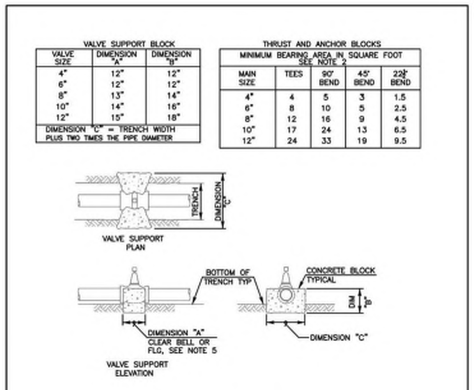
VALVE SUPPORT BLOCK

VALVE SIZE	DIMENSION "A"	DIMENSION "B"
4"	12"	12"
6"	12"	12"
8"	13"	14"
10"	14"	16"
12"	15"	18"

DIMENSION "C" = TRENCH WIDTH PLUS TWO TIMES THE PIPE DIAMETER

THRUST AND ANCHOR BLOCKS

MINIMUM BEARING AREA IN SQUARE FOOT SEE NOTE 2				
MAIN SIZE	TEES	90° BEND	45° BEND	22½° BEND
4"	4	5	3	1.5
6"	8	10	5	2.5
8"	12	16	9	4.5
10"	17	24	13	6.5
12"	24	33	19	9.5



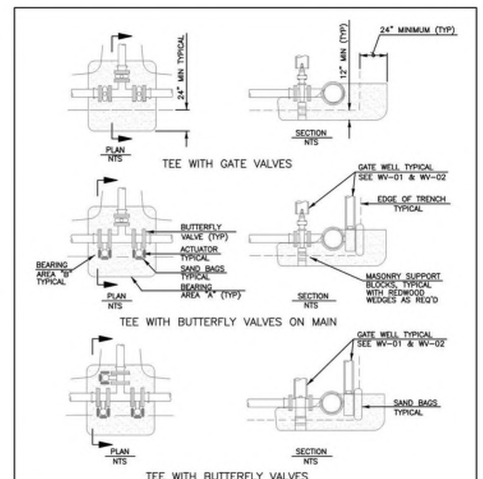
NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) BEARING AREA BASED ON SOIL BEARING VALUE OF 1500 PSF AND 225 PSI LINE PRESSURE AND A MINIMUM OF 36" COVER
   FOR BEARING= 1000 PSF, 1.5 x AREA SHOWN
   FOR BEARING= 500 PSF, 3.0 x AREA SHOWN
3) DESIGN ENGINEER SHALL DETERMINE SIZES, REFER TO AGENCY SPECIFICATIONS FOR THRUST AND ANCHOR BLOCK SIZING
4) THRUST BLOCKS SHALL BE CENTERED ON THE FITTING SO THAT THE BEARING AREA IS EXACTLY OPPOSITE THE RESULTANT DIRECTION OF THRUST
5) CONCRETE SHALL BE PLACED SO THAT FITTINGS AND VALVES WILL BE ACCESSIBLE FOR REPAIR OR REPLACEMENT
6) ALL THRUST AND ANCHOR BLOCKS SHALL BE POURED AGAINST WETTED UNDISTURBED SOIL
7) FOR MINIMUM CONCRETE CURING TIME REFER TO AGENCY SPECIFICATIONS
8) FOR ADDITIONAL THRUST BLOCKS SEE WT-01 (1 OF 3) & (3 OF 3)

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Repl. W-15 Thrust, W-20		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Reviewed	MR	B. KNOLL	10/15
Reviewed	MR	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE THRUST AND ANCHOR BLOCK INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WT-01 (2 OF 3)



NOTES:
1) BEARING AREA "B" MUST BE EQUAL TO OR GREATER THAN THE AREA REQUIRED FOR A 90° ELBOW INSTALLATION
2) INSTALL SAND BAGS AROUND BUTTERFLY VALVE ACTUATOR TO ISOLATE IT FROM CONCRETE
3) BFV'S INSTALLED AT CROSSES OR TEES REQUIRE A FLANGED DUCTILE IRON SPOOL TO BE INSTALLED BETWEEN THE FITTING AND VALVE IN ACCORDANCE WITH THE AGENCY SPECIFICATIONS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Repl. W-15 Thrust, W-20		J. Tomasulo	10/04
Delete Metric/Std	MR	B. KNOLL	03/11
Reviewed	MR	B. KNOLL	10/15
Reviewed	MR	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE THRUST AND ANCHOR BLOCK INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date 10/26/2018
DRAWING NUMBER WT-01 (3 OF 3)

DIGALERT 811

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
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www.davyarchitecture.com
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SB&O INC.
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3990 Ruffin Road, Suite 120
San Diego, Ca. 92123
858-560-1141
858-560-8157 Fax

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Middle School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09/19/22	DSA RESUBMITTAL
	04/29/22	DSA SUBMITTAL

SB&O PROJECT No: 74842.30
DRAWN BY: CF/TP
CHECKED BY: ALB

PRECISE GRADING PLAN

SAN DIEGO REGIONAL STANDARD DRAWINGS

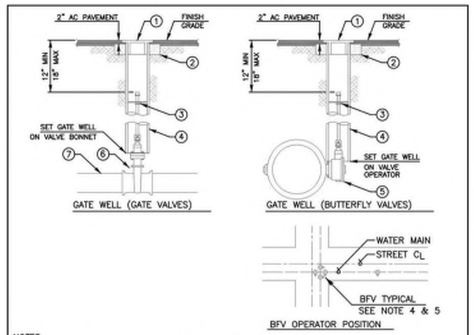
C-10

REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

SB&O INC.
PLANNING ENGINEERING SURVEYING
3990 Ruffin Road, Suite 120
San Diego, Ca. 92123
858-560-1141
858-560-8157 Fax

ALLEN BUTCHER P.E. 47107 9-21-22 DATE

Plotted: 9/21/2022 12:41 PM D:\74842 ME\SD\03 DWG\PGP\PHASE 1B MAIN OFFICE ENTRY\74842PG10-PG11.DWG - tony p



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) VALVES DEEPER THAN 5' REQUIRE A VALVE STEM EXTENSION
3) EXTENSION STEMS SHALL NOT BE ATTACHED/BOLTED TO OPERATING NUT
4) GATE WELL AND CAP SHALL BE SET SO THAT NO MORE THAN TWO 1" ADJUSTMENT RINGS ARE USED
5) BFV OPERATORS TO BE LOCATED TO THE CURBLINE SIDE OF WATER MAIN
6) BFV'S INSTALLED AT CROSSES OR TEES REQUIRE A FLANGED DUCTILE IRON SPOOL TO BE INSTALLED BETWEEN THE FITTING AND VALVE IN ACCORDANCE WITH THE AGENCY'S SPECIFICATIONS
7) GATE WELLS AND CAPS SHALL BE IDENTIFIED AS DESCRIBED ON WV-03
8) FOR INLINE VALVE ANCHOR BLOCK INSTALLATION SEE WT-02
9) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

LEGEND ON PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
①	GATE WELL WITH CAP SEE NOTE 7	④	8" PVC CL 200, C-900 PIPE x REQUIRED LENGTH GATE WELL SEE NOTE 7
②	6" HIGH x 6" WIDE COMPACTED ASPHALT-CONCRETE RING	⑤	BUTTERFLY VALVE
③	VALVE STEM EXTENSION SEE NOTES 2 & 3	⑥	RESILIENT WEDGE GATE VALVE
		⑦	WATER MAIN

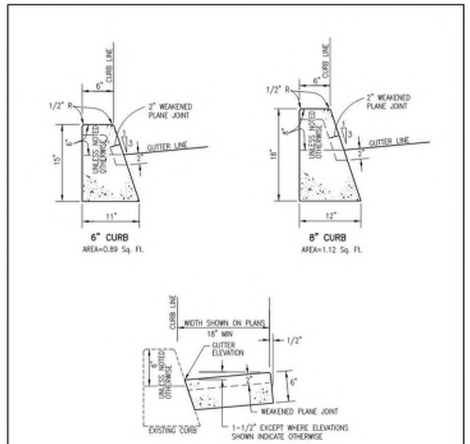
Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
Repl. W-126 and W-128		J. Tomasello	10/04
Delete MHYV	MR	B. KNOLL	03/11
Reviewed	MR	B. KNOLL	10/15
Reviewed	MR	B. KNOLL	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

GATE WELL CAP INSTALLATION, FOR VALVES 4" AND LARGER

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER WV-01



NOTES:
1. CONCRETE SHALL BE 520-C-2500.
2. SEE STANDARD DRAWINGS G-9 AND G-10 FOR JOINT DETAILS.
3. SLOPE TOP OF CURB 2% MAX TOWARD GUTTER.

LEGEND ON PLANS

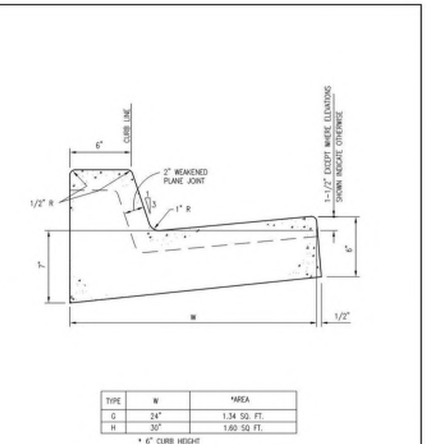
Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
UPDATED	MR	MR/CV	11/11
UPDATED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

CURBS AND GUTTER - SEPARATE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-01



TYPE	W	*AREA
G	24"	1.34 SQ. FT.
H	30"	1.60 SQ. FT.

* 6" CURB HEIGHT

NOTES:
1. CONCRETE SHALL BE 520-C-2500.
2. SEE STANDARD DRAWINGS G-9 AND G-10 FOR JOINT DETAILS.
3. SLOPE TOP OF CURB 2% MAX TOWARD GUTTER.

LEGEND ON PLANS

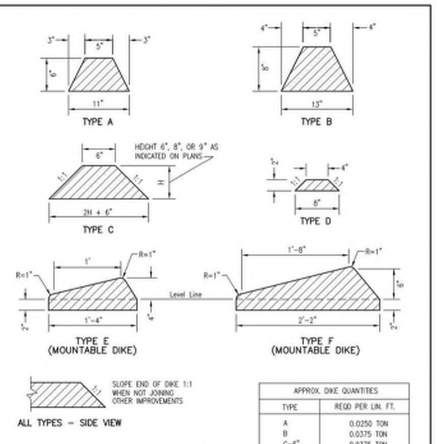
Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
UPDATED	MR	MR/CV	11/11
UPDATED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

CURB AND GUTTER - COMBINED

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-02



NOTES:
1. DIKES SHALL BE PLACED ON A 2" SECTION OF A.C. SURFACING, EXTENDING THROUGHOUT THE WIDTH OF THE DIKE.
2. PG-70-10 GRADE ASPHALT TO BE USED FOR ALL DIKES.
3. SHAPE AND COMPACT DIKES WITH AN EXTRUSION MACHINE OR OTHER EQUIPMENT CAPABLE OF SHAPING AND COMPACTING THE MATERIAL TO THE REQUIRED CROSS-SECTION.

APPROX. DIKE QUANTITIES	
TYPE	REQD PER LIN. FT.
A	0.0250 TON
B	0.0375 TON
C-6"	0.0375 TON
C-8"	0.0583 TON
C-9"	0.0702 TON
D	0.0062 TON
E	0.0407 TON
F	0.0623 TON

LEGEND ON PLANS

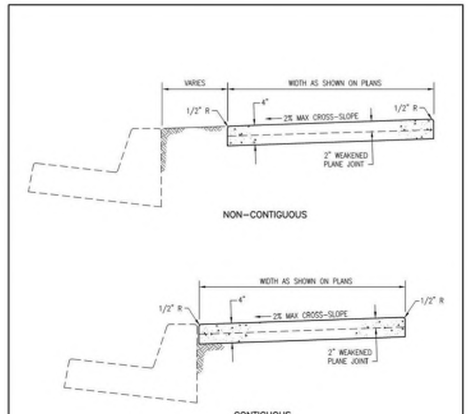
Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
UPDATED	MR	MR/CV	11/11
REVIEWED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

DIKES - ASPHALT CONCRETE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-05



NOTES:
1. CONCRETE SHALL BE 520-C-2500.
2. SEE STANDARD DRAWINGS G-9 AND G-10 FOR JOINT DETAILS.

LEGEND ON PLANS

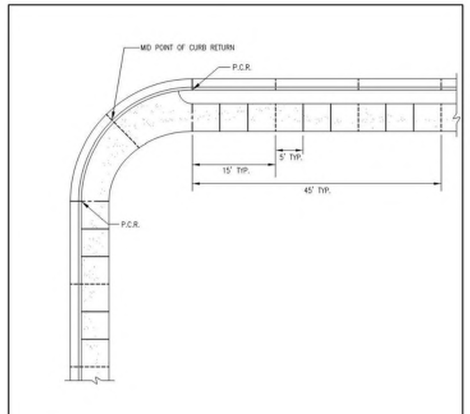
Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
REVIEWED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

SIDEWALK - TYPICAL SECTIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-07



NOTES:
1. EXPANSION JOINTS - - - AT CURB RETURNS, ADJACENT TO STRUCTURES AND AT 45' INTERVALS. (SEE STANDARD DRAWING G-10).
2. WEAKENED PLANE JOINTS ------ AT MID POINT OF CURB RETURN, WHEN REQUIED, AND AT 15' INTERVALS FROM P.C.R. (SEE STANDARD DRAWING G-10).
3. 1/4" GROOVES ——— WITH 1/4" RADIUS EDGES AT 5' INTERVALS.

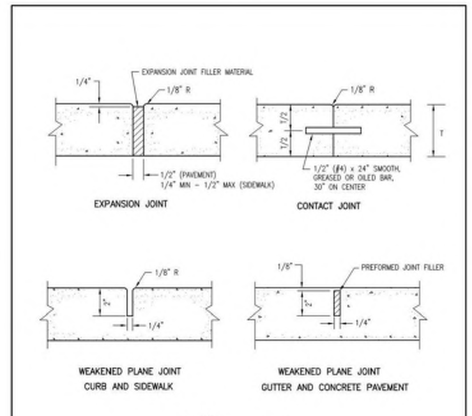
Revision	By	Approved	Date
ORIGINAL		KERCHEVAL	12/75
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
REVIEWED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

SIDEWALK JOINT LOCATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-09



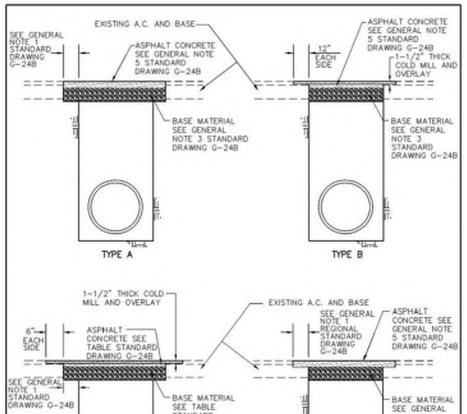
Revision	By	Approved	Date
ORIGINAL		PARKINSON	02/95
ADD METRIC		T. STANTON	03/03
REFORMATTED		T. STANTON	04/06
UPDATED	CV	MR/CV	11/11
REVIEWED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE JOINT DETAILS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-10



Revision	By	Approved	Date
ORIGINAL		PARKINSON	02/95
REVIEWED		T. STANTON	04/06
UPDATED	MR	MR/CV	03/12
REVIEWED	CV	CV	12/15

SAN DIEGO REGIONAL STANDARD DRAWING

TRENCH RESURFACING ASPHALT CONCRETE STREETS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chadgerson R.C.E. 19246 Date 10/25/2018

DRAWING NUMBER G-24A

DIGALERT 811

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF DAVY ARCHITECTURE, INC. AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF DAVY ARCHITECTURE, INC. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
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PHONE 619.238.3811
www.davyarchitecture.com
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SB&O INC.
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858-560-8157 Fax

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Middle School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09/19/22	DSA RESUBMITTAL
	04/29/22	DSA SUBMITTAL

SB&O PROJECT No:	74842.30
DRAWN BY:	CF/TP
CHECKED BY:	ALB

PRECISE GRADING PLAN

SAN DIEGO REGIONAL STANDARD DRAWINGS

C-11

SB&O INC.
PLANNING ENGINEERING SURVEYING
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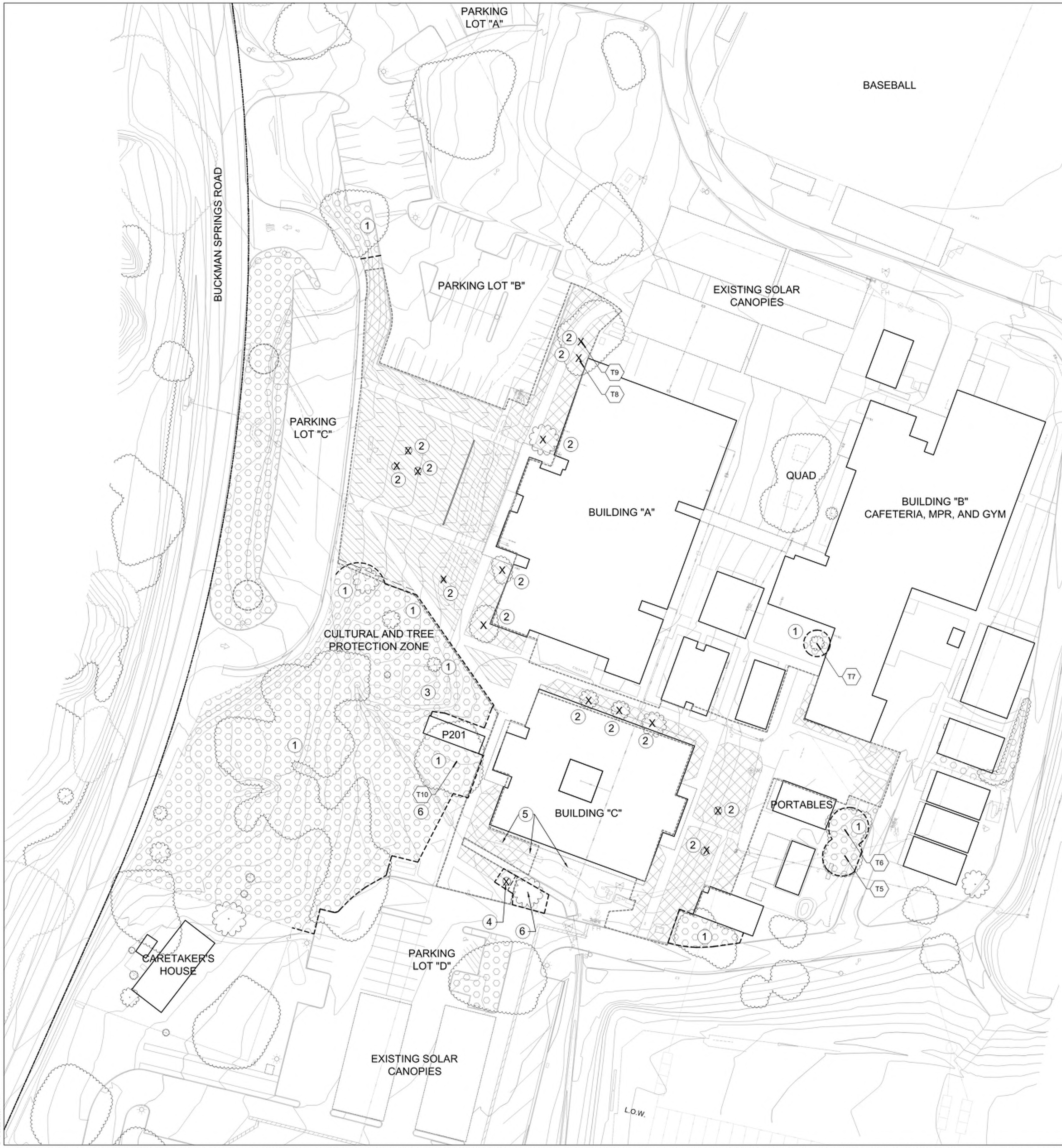
San Diego, Ca. 92123
858-560-1141
858-560-8157 Fax

REGISTERED PROFESSIONAL ENGINEER ALLEN L. BUTCHER No. 47107 CIVIL STATE OF CALIFORNIA

9-21-22
ALLEN BUTCHER P.E. 47107 DATE

Plotted: 9/21/2022 12:41 PM D:\74842 MEUSD\03 DWG\PCP\PHASE 1B MAIN OFFICE ENTRY\74842PG10-PG11.DWG - terry.p



PROTECTION LEGEND

SYMBOL	DESCRIPTION
1	Tree Protection Zone per L0.2 and Arborist Report
2	Remove existing tree
3	Kumeyaay cultural resource rock outroppings per Note #1 below
4	Remove indicated existing tree only if Entry Canopy Add Alternate is included; otherwise, extend a Tree Protection Zone per L0.2
5	Protect existing CMU planter, plants, and irrigation
6	Prune tree per Arborist Report and Recommendations only if Entry Add Alternate is included; establish a Tree Protection Zone per L0.2
T#	Tree Label per "Tree Protection Plan - Mountain Empire Union School District," Exhibit B by Tree Life Consulting (Arborist Report), dated February 15, 2022.
	Tree / cultural resource protection fence per 1/L0.2; Refer to Tree Protection Notes and Arborist Report for exact placement and distance from trees.
	Protect tree and plants in this area per L0.2; if any plant or tree is damaged, replace per Owner's Representative's and Landscape Architect's direction
	Remove existing turf in this area per specifications
	Remove plants in this area per specifications
	Existing tree canopy per survey. Verify in Field

Protection Notes:

1. The existing rock outcroppings are significant cultural resources to the local Kumeyaay nation and shall be protected from any and all construction activities, including materials or equipment storage, waste disposal, vehicular traffic, parking, or as directed by the Owner's Representative. The rock outcroppings shall be protected with temporary fences, per 1/L0.2. Any and all excavation or potholing in this area will need approval by the Owner's Representative and shall be monitored and observed by the local Kumeyaay tribal representatives, and others as required at Contractor's expense. Coordinate any work in this area with the Owner's Representative prior to commencement.
2. Refer to Sheet L0.2 for full Tree Protection Notes and details.
3. Refer to "Tree Protection Plan - Mountain Empire Union School District," Exhibit B (Arborist Report) prepared Tree Life Consulting, dated February 15, 2022 for required and recommended measures with existing tree protection and treatments.
4. Protect all existing trees and plants on site not indicated to be removed, including those away from the construction areas by complying with the measures outlined in the Tree Protection Notes, including, but are not limited to, storage of materials under a tree's dripline, compaction, or trenching. If construction activity or storage gets within 25 feet to any tree's canopy not shown in the drawings as a Tree Protection Zone, follow the procedures outline in the Tree Protection Notes on L0.2 in the setup of a Tree Protection Fence and Tree Protection Zone and review with the Project Arborist and Arborist
5. Refer to Mulch Plan for where to relocated existing boulders in the project area. If any additional boulders are discovered within the project area, stockpile them and notify the Owner's Representative and Landscape Architect for where to place within the bio-filtration area.

0 30' 60' N

TREE AND CULTURAL PROTECTION PLAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
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09/19/2022
STATE OF CALIFORNIA

CONNECTEDstudio
landscape architecture
P.O. BOX 742221 SAN DIEGO, CA 92174
619.255.3071

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.22	DSA SUBMITTAL
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: FB
CHECKED BY: JB

TREE AND CULTURAL PROTECTION PLAN

L0.1

2/18/2022 8:36:11 AM

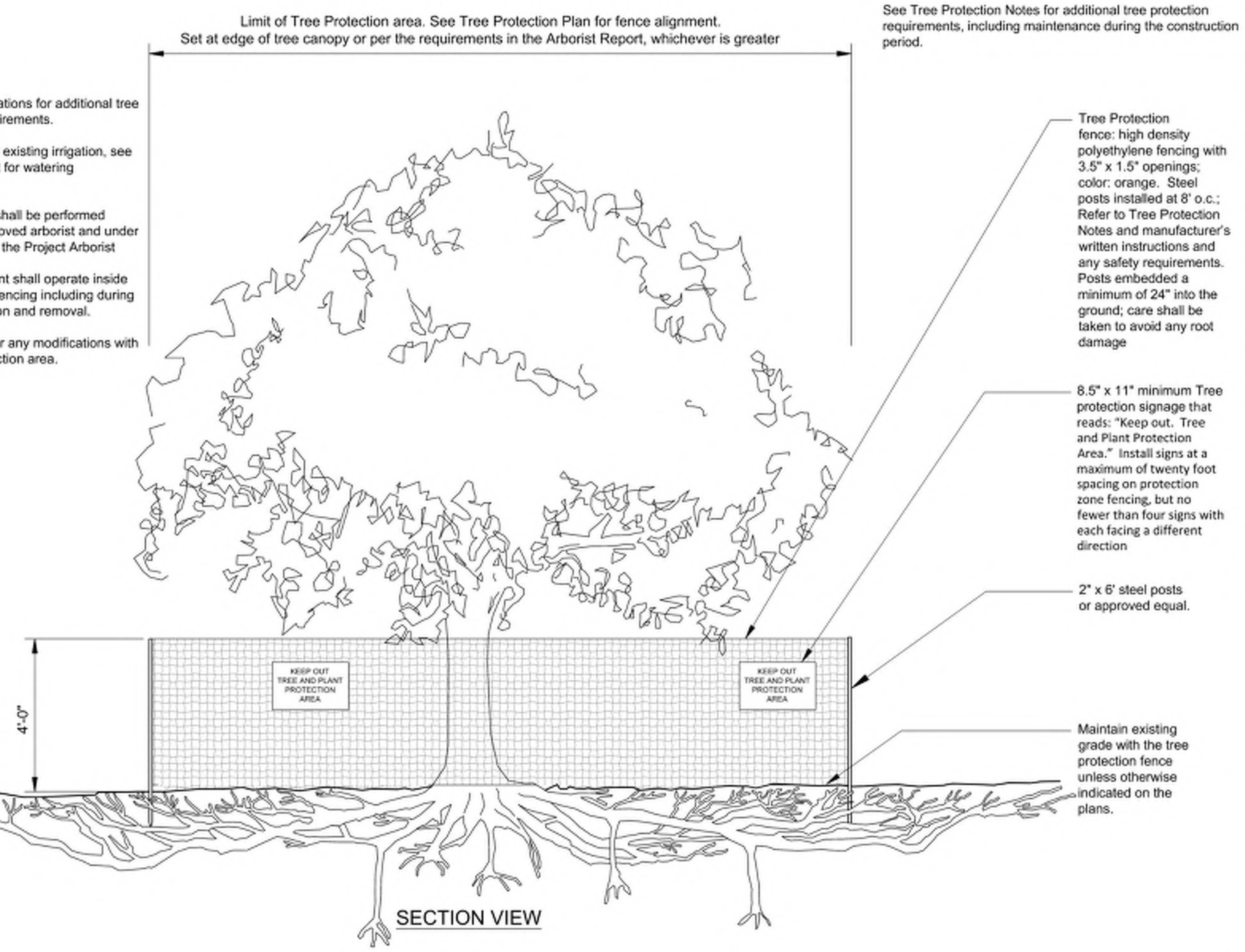
Notes:
1- See specifications for additional tree protection requirements.

2- If there is no existing irrigation, see Arborist Report for watering requirements.

3- No pruning shall be performed except by approved arborist and under the direction of the Project Arborist

4- No equipment shall operate inside the protective fencing including during fence installation and removal.

5- See plans for any modifications with the Tree Protection area.



1. TREE PROTECTION FENCE SCALE: 1/2"=1'-0"

TREE PROTECTION NOTES:

1. The Project Arborist is Laurel Everett, Jr., of Tree Life Consulting, LLC, (858) 967-2420. The Contractor shall be familiar with the requirements and recommendations in the Arborist Report: "Tree Protection Plan -- Mountain Empire Union School District," dated February 15, 2022.
2. A Tree Protection Zone (TPZ) is defined as the area surrounding trees to be protected during construction/renovation. Temporary fencing is erected to physically restrict access into the Tree Protection Zone. No activities should occur within a Tree Protection Zone without consulting with the Project Arborist and the Owner's Representative.
3. The requirements for the Tree Protection Zone shall also be used for the Cultural Protection Zone as a minimum. If any type of work, excavation, temporary storage, or temporary access is required for construction, the Contractor shall obtain in writing from the Owner's Representative. Any and all excavation or alteration within the Cultural Protection Zone shall require archaeological monitoring and observation by representatives of the local Kumeyaay tribe. Coordinate and plan all such activity with the Owner's Representative prior to commencement.
4. Tree Protection Zones are generally round with the tree being at the center. The radius of each Tree Protection Zone is determined by the trunk diameter at standard height (DSH). Because the species is not tolerant of root disturbance, the radius of the Tree Protection Zone is equal to six times the DSH or the extent of the canopy, whichever is greater. Refer to the Arborist Report for the Tree Protection Zone sizes for listed trees.
5. Once established, the Tree Protection Zone shall not be altered or disturbed for the duration of construction unless discussed with the Owner's Representative or designee and Project Arborist prior to any changes being made.
6. The Project Arborist shall review and approve the Contractor's Tree Protection Zone layout and installation and potential impacts on the Tree Protection Zone and report such findings to Owner's Representative or designee for review and approval.
7. The Contractor shall protect the Tree Protection Zone at all times from compaction of the soil, damage of any kind to trunks, bark, branches, leaves and roots of all plants; and contamination of the soil, bark or leaves with construction materials, debris, silt, fuels, oils, and any chemicals substance.
8. Any damage or injury to the tree shall be reported to the Owner's Representative and the Project Arborist as soon as possible. Injuries to roots or branches must be repaired immediately applying ISA Best Management Practices with consultation of the Project Arborist.
9. No equipment or debris of any kind shall be placed within the protective barriers of each Tree Protection Zone. No construction staging or disposal of construction material or byproducts including, but not limited to, paint, plaster, fuel, solvent, oil, asphalt, cement, grout, or any other construction material or chemical solutions is allowed in the Tree Protection Zone. Do not direct vehicle or equipment exhaust towards protection zones. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.
10. The Contractor shall not engage in any construction activity within the Tree Protection Zones without the approval of the Owner's Representative and Project Arborist including: operating, moving or storing equipment; storing supplies or materials; locating temporary facilities including trailers or portable toilets and shall not permit employees to traverse the area to access adjacent areas of the project or use the area for lunch or any other work breaks.
11. In the event that construction activity is unavoidable within the Tree Protection Zone, notify the Owner's Representative and submit a detailed written plan of action developed with the Project Arborist for approval. The plan shall include: a statement detailing the reason for the activity including why other areas are not suited; a description of the proposed activity; the time period for the activity, and a list of remedial actions that will reduce the impact on the Tree Protection Zone from the activity.
12. Flag all trees and shrubs to be removed by wrapping orange plastic ribbon around the trunk and obtain the Owner's Representative's approval of all trees and shrubs to be removed prior to the start of tree and shrub removal. After approval, mark all trees and shrubs to be removed with orange paint in a band completely around the base of the tree or shrub 4.5 feet above the ground.
13. Flag all trees and shrubs to remain with white plastic ribbon tied completely around the trunk or each tree and on a prominent branch for each shrub. Obtain the Owner's Representative's approval of all trees and shrubs to be remain prior to the start of tree and shrub removal.
14. The Contractor shall schedule a pre-construction meeting with the Owner's Representative at least seven (7) days before beginning work to review any questions the contractor may have regarding the work, administrative procedures during construction and project work schedule for tree protection and removal of any on-site plant material, and to ensure everyone fully understands all tree protective measures. Prior to the pre-construction meeting, Contractor shall layout the limits of the Tree Protection Zone and then alignments of required tree and plant protection fencing and any root pruning. Obtain the Project Arborist and Owner's Representative's approval of the limits of the protection area and the alignment of all fencing and root pruning.
15. Protective Fencing
    - i. For existing trees to remain inside the construction site, protective fencing shall be installed at the Tree Protection Zone and approved in place by Owner's Representative or designee prior to the commencement of any construction or demolition. Install Tree Protection Zone signage in visibly prominent locations in a manner approved by job supervisor. Signs shall be no less than 8.5" x 11" and laminated to each protection zone that reads: "Keep Out -- Tree and Plant Protection Area" Install signs at a maximum of twenty foot spacing on protection zone fencing, but no fewer than four signs with each facing a different direction.
    - ii. The installation of tree protection fencing shall be in accordance with the Tree Protection Plan, and inspection by the Project Arborist and Owner's Representative or designee will be required prior to construction. Maintain protection zone fencing and signage in good condition as acceptable to the Arborist. Once construction is complete and equipment has been removed from the site, carefully remove tree protection fencing.
    - iv. If required to be moved, the tree protection fencing has to be moved under the direction of the Project Arborist. All tree protection zones need to be clear of debris and construction materials, and cleared of weeds regardless if fencing is present or not. A general rule is that the tree protection zone is to be at the dripline of the tree if fencing is not present. Tree protection fencing needs to be restored to its proper dimensions immediately following activity that resulted in the removal of tree protection fencing.
    - v. The tree protection fencing shall be:
        - A. Plastic Barrier Fence: Four feet in height. No access gates are needed.
        - B. Wooden or metal support posts shall be driven in the ground at least two feet in depth. Care should be taken to avoid any root damage
13. Supplemental Water
    - i. Provide supplemental water to the trees per the Arborist Report and under the direction of the Project Arborist. Coordinate with the Owner's Representative for the sources of supplemental water and any other scheduling or safety requirements due to school operations.
    - ii. Light, frequent irrigation applications shall be avoided. Water used shall be clean potable water from a reliable source.
    - iii. Install an adjustable, slow-emitting irrigation system around all trees. Inline drip hoses (e.g. Netafim) are the preferred emitter type, as they can be easily adjusted within the TPZ.
    - iv. Concentric rings of inline drip hoses are the preferred configuration. The number of rings depends on the size and age of a tree. The first ring should be a distance from the trunk that is three times trunk diameter. For example, the first ring for a tree with a two-foot diameter should be six feet from the trunk. The next ring should be two feet from the previous ring — and so forth. The final ring should be at the drip-line.
    - v. Only irrigate the oak trees with the guidance of the Project Arborist and approval of the Owner's Representative or designee. If the oak trees appear to be water stressed, contact the Owner's Representative or designee immediately. The area outside the Tree Protection Zone should be irrigated sufficiently with clean potable water to keep the tree in good health and vigor before, during, and after construction by the Contractor per consultation with the Project Arborist. Only irrigate oaks outside the Tree Protection Zone and with the guidance of the Project Arborist. Under no circumstance should the ground near the base of an oak be allowed to become moist during warm weather months.
14. The Tree Protection Zone shall not be subjected to flooding incidental to the construction work.
15. Work within the Tree Protection Zone
    - a. The Contractor shall exercise extreme caution when working within the dripline of existing trees. Trenching and root pruning is not allowed within the TPZ unless approved by the Owner's Representative or designee with the consultation of the Project Arborist. Where trenching is approved within a TPZ, only low-pressure pneumatic tools (e.g. air spade) shall be used to expose roots without causing significant damage. No other types of excavation tools shall be used unless approved by the Project Arborist and Owner's Representative or designee. Trenches in the Tree Protection Zone should be tunneled, or completed with an air spade to avoid damage to small feeder roots with the Tree Protection Zone. Verify all layout in field with the Owner's Representative or designee prior to the start of work within the dripline.
    - b. When using a low-pressure pneumatic tool, plywood sheets should be setup to contain the soil in an area near the trench. After backfilling, excess soil above original grade shall be removed from the Tree Protection Zone entirely.
    - c. Where structural footings are required and major roots (over 2" in diameter" will be impacted, the Engineer of Record shall submit acceptable footing design alternatives and / or location alternatives to the Owner's Representative or designee before proceeding with further plan review or construction.
    - d. Under no circumstance shall anything be placed within six feet of any oak tree's trunk.
16. Root Pruning
    - a. Any root cutting must be approved by the Project Arborist. Any root damage shall be documented and reported to the Owner's Representative and the Project Arborist as soon as practical.
    - b. Trenching and root pruning is prohibited within the Tree Protection Zone unless approved by the Project Arborist. Any root pruning within the Tree Protection Zone shall not be performed by untrained construction personnel, but shall be performed by qualified tree care professionals approved by the Project Arborist
    - c. Where roots greater than 2 inches in diameter are to be removed within the dripline of the tree, the Engineer of Record shall submit acceptable design alternatives to the Owner's Representative or designee for review.
    - d. Any required trenching shall be routed in such a manner as to minimize root damage. Radial trenching (radial to the tree trunk) is preferred as it is less harmful than tangential trenching. Construction activity shall be diverted from the Tree Protection Zone. Cutting of roots shall be avoided (i.e. place pipes and cables below uncut roots). Wherever possible and in accordance with applicable code requirements, the same trench should be used for multiple utilities.
    - e. In areas where the grade around the protected tree will be lowered, some root cutting may be unavoidable. Cuts should be clean and made at right angles to the roots. When practical, cut roots back to a branching lateral root. The Owner's Representative or designee needs to be present when root cutting is proposed and discussed. All root impacts shall be documented.
    - f. Where utility trenches are required outside protection zones, cut only smaller roots (less than one inch in diameter) that interfere with installation of utilities.
    - g. If larger roots (greater than an inch in diameter) are exposed, root pruning shall not be attempted by untrained construction personnel, but shall be performed by qualified tree care professionals or certified tree care workers approved by the Project Arborist.
    - h. Cutting roots larger than one inch shall be under the supervision of the Project Arborist. Roots shall be cleanly saw-cut; do not break, tear, chop, or slant the cuts. Roots must be cut clean to sound wood and flush with the trench side. Do not use a backhoe or other equipment that rips, tears, or pulls roots. A pneumatic air spade is the preferred tool for excavation within the Tree Protection Zone.
    - i. Once roots are cut, they should be covered with soil within 15-minutes. Backfill and add water to soak. Do not allow exposed roots to dry-out. If the trench cannot be backfilled immediately, provide temporary earth-cover or wrap with moist burlap. Water and maintain a moist condition. Backfill trench as soon as possible. After backfilling, excess soil above original grade shall be removed from the site.
17. "Natural" or pre-construction grade should be maintained in the Tree Protection Zone. At no time during or after construction should soil be in contact with the trunk of the tree above the basal flare.
18. When removing existing pavement in the Tree Protection Zone, avoid the use of heavy equipment, which will compact and damage the root system.
19. If the Owner's Representative or designee requires mulch in the Tree Protection Zone, the mulch materials and location should be shown on the plan.
20. If foot-traffic within the TPZ is required during the construction process, the route shall be covered by plywood sheets. No vehicle access is permitted unless approved by the Owner's Representative or designee with the advice of the Project Arborist. If vehicle access is required, the Contractor shall submit a plan developed under the guidance of the Project Arborist that is approved the Owner's Representative or designee. The plan shall show the limits of vehicle movement, haul routes, staging areas, contacts, and measures taken to minimize soil compaction, and duration of vehicular access.
21. Canopy Pruning:
    - a. If pruning is required to accomplish a specific objective, then adhere to the following pruning
    - b. guidelines: ISA (International Society of Arboriculture) Best Management Practices and ANSI A300 standards.
    - c. Tree pruning shall not be performed by untrained construction personnel, but shall be performed by a qualified tree care professional or a certified tree care worker. Any tree pruning must be approved in writing by the Project Arborist.
22. Damage to Trees - Reporting; Any damage or injury to trees shall be reported within six (6) hours to the Project Arborist and job superintendent or Owner's Representative so that mitigation can take place. All mechanical or chemical injury to branches, trunk or to roots over two (2) inches in diameter shall be reported in the monthly inspection report. In the event of injury, the following mitigation and damage control measures shall apply:
    - A. Bark or trunk wounding: Current bark tracing and treatment methods shall be performed by a qualified tree care specialist within two (2) days with the approval of the Project Arborist.
    - B. Scaffold branch or leaf canopy injury: Remove broken or torn branches back to an appropriate branch capable of resuming terminal growth within five (5) days. If leaves are heat scorched from equipment exhaust pipes, consult the Project Arborist within six (6) hours.
    - C. Any damage any tree's canopy will need to be restoratively pruned effective immediately after the damage occurs and no later than 48 hours after the damage occurs
23. The Project Arborist retained by the applicant shall conduct the following required monitoring and inspections of the construction site:
    - a. Inspections shall verify that the type of tree protection and/or plantings are consistent with the standards outlined within this Tree Protection Notes. For each required inspection or meeting, a written summary of the changing tree related conditions, actions taken, and condition of trees shall be provided to the contractor.
    - b. Pre-Construction Meeting. Prior to commencement of construction, the contractor shall conduct a pre-construction meeting to discuss tree protection with the job site superintendent, grading equipment operators, and the Project Arborist.
    - c. Installation and Verification of Tree Protection. The Project Arborist shall verify, in writing, that all pre-construction conditions have been met (tree fencing, erosion control, pruning, etc.
    - d. The Project Arborist shall be notified prior to any type of root or crown pruning.
    - e. The Project Arborist shall monitor any pruning operations
    - f. Prior to and during any required excavation within any Tree Protection Zone.
    - g. Contact the Project Arborist for final review once the construction has been completed.

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STATE OF CALIFORNIA

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Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL
	04.29.22	DSA SUBMITTAL

DAVY PROJECT No: 2017
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CHECKED BY: JB

TREE PROTECTION DETAIL AND NOTES

L0.2

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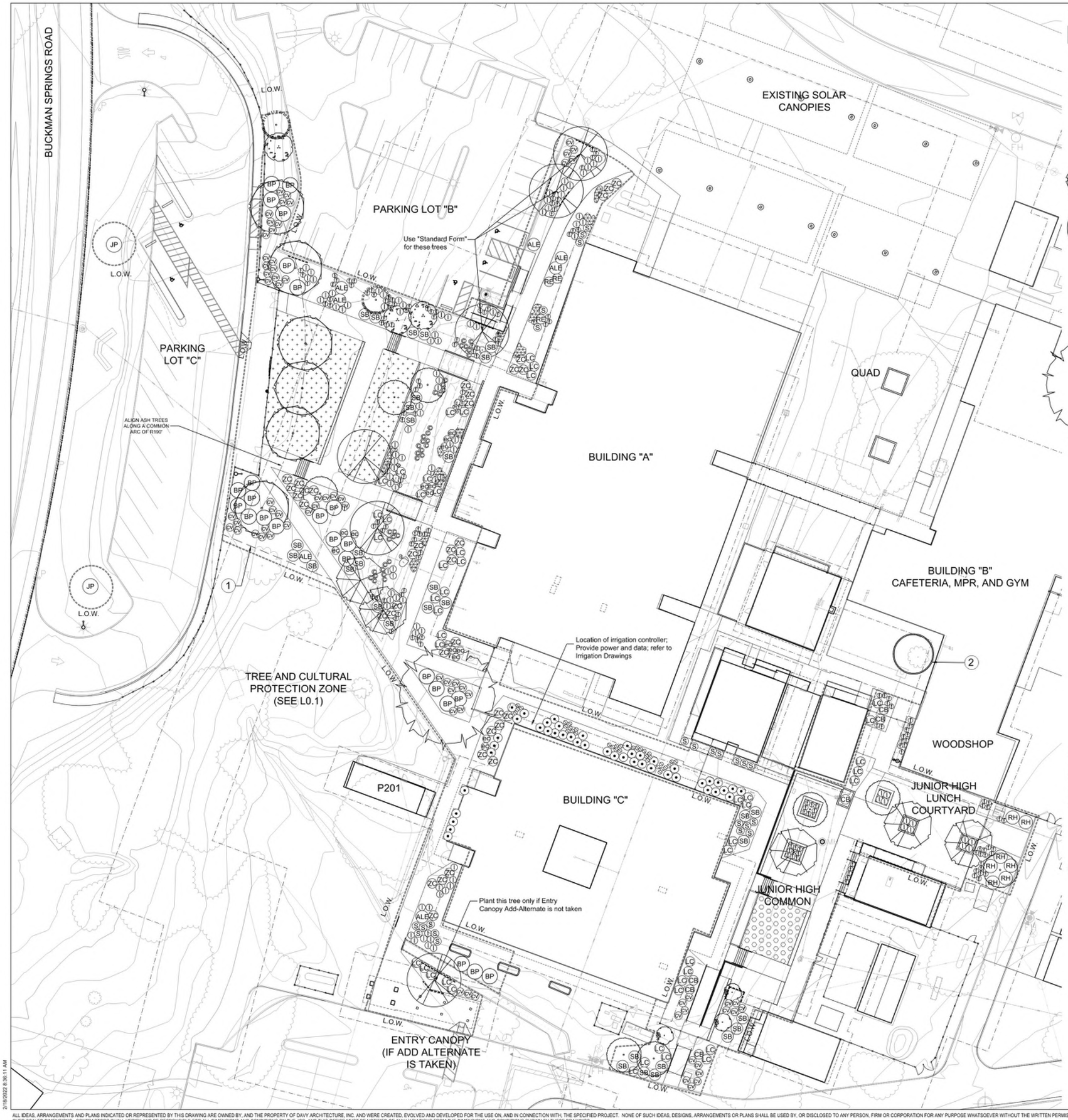

PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME
	EXISTING TREE	PROTECT IN PLACE PER L0.1 / L0.2
	ARBUTUS UNEDO	STRAWBERRY TREE (NATURAL FORM / MULTI TRUNK)
	CERCIS OCCIDENTALIS	WESTERN REDBUD (NATURAL FORM)
	FRAXINUS ANGUSTIFOLIA 'RAYWOOD'	RAYWOOD ASH / CLARET ASH
	FRAXINUS VELUTINA 'RIO GRANDE'	FAN-TEX ASH
	HETEROMELES ARBUTIFOLIA "DAVIS GOLD"	TOYON
	LAGERSTROEMIA INDICA X FAUERI 'ARAPAHO'	ARAPAHO CRAPE MYRTLE (MULTI TRUNK)
	PRUNUS ILICIFOLIA X ILISIFOLIA	HOLLYLEAF CHERRY
	QUERCUS ENGELMANNII	ENGELMANN OAK (STANDARD FORM)
	DROUGHT TOLERANT AND NATIVE PLANTS SUCH AS:	
	ACHILLEA MILLEFOLIUM 'CALISTOGA'	CALISTOGA YARROW
ALE	ARCTOSTAPHYLOS 'LOUIS EDMUNDS'	LOUIS EDMUNDS MANZANITA
BP	BACCHARIS PILULARIS 'PIGEON POINT'	PIGEON POINT COYOTE BUSH
C	CAREX TUMULICOLA	FOOTHILL SEDGE
CB	CEANOTHUS X 'BLUE JEANS'	BLUE JEANS CALIFORNIA LILAC
CV	CEANOTHUS MARITUMS 'VALLEY VIOLET'	VALLEY VIOLET CEANOTHUS
EC	ENCELIA CALIFORNICA	COAST SUNFLOWER
F	FESTUCA CALIFORNICA	CALIFORNIA FESCUE
H	HEUCHERA SANGUINEA	CORAL BELLS
JP	JUNIPERUS CHINENSIS 'PARSONII'	PARSON'S JUNIPER
LC	LEYMUS CON. 'CANYON PRINCE'	CANYON PRINCE WILD RYE
L	LOMANDRA LONGIFOLIA 'LM400'	LOMANDRA
RE	RHAMNUS CALIF. 'EVE CASE'	EVE CASE COFFEEBERRY
RH	ROSMARINUS O. 'HUNTINGTON CARPET'	CREEPING ROSEMARY
S	SALVIA CLEVELANDII 'POZO BLUE'	GREY MUSK SAGE
SB	SALVIA L. 'BEE'S BLISS'	BEE'S BLISS PURPLE SAGE
	SALVIA SPATHACEA	HUMMINGBIRD SAGE
ZC	ZAUSCHNERIA CALIFORNICA	CALIFORNIA FUCHSIA
	TURF	
	EWING KING FESCUE BLEND	EWING IRRIGATION PRODUCTS (800) 343-9464
	SYNTIPEDE 343 OR APPROVED EQUAL	SYNLAWN (858) 299-0152
	MISCELLANEOUS	
	LANDSCAPE LIMIT OF WORK	
	ROOTBARRIER	
1	METAL HEADER PER 6/L1.4	
2	SEGMENTAL CONCRETE UNIT WALL PER 5/L1.4	

Planting Plan Notes:

1. See Sheet L1.2 for full Planting Legend and Planting Notes; See "B" Sheets for mulch information
2. See Sheet L0.1 for Tree and Cultural Protection Plan for existing trees and plants
3. Install root barriers in all instances where a tree trunk will be within 5' of adjacent paving, walls, curbs, any flatwork, or any other hardscape element. See Detail 7/L1.3 and specifications

HIGH FIRE MANAGEMENT ZONES

SYMBOL	DESCRIPTION
	Zone 0 - Ember Resistant Zone (0 - 5 feet from structures)
	Zone 1 - Lean, Clean, and Green Zone (5 - 50 feet from structures)
	Zone 2 - Reduce Fuel Zone (50 - 100 feet from structures)

I am familiar with the requirements for landscape and irrigation plans contained in the County Landscape Water Conservation regulations, in Title 8, Division 6, Chapter 7. I have prepared this plan in compliance with those regulations. I certify that the plan implements those regulations to provide efficient use of water.

9/19/2022

Frederick G Besançon, RLA 6055• Date

0 20' 40' N

PLANTING PLAN

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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	09.19.22	DSA RESUBMITTAL

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CHECKED BY:	JB

PLANTING PLAN

L1.1A

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MULCH LEGEND

SYMBOL	NAME	SIZE	COLOR	SUPPLIER	REMARKS
	ROCK MULCH TYPE 1	60% 3/4" 40% 3/4"	BRODIE COMET GRANITE	D.S.S. OR APPROVED EQ. 800.699.1878	3" LAYER DEPTH SEE DETAIL 3/L1.4
	ROCK MULCH TYPE 2 (Transition Zone)	60% 3/4" 40% 3/4"	BRODIE COMET GRANITE	D.S.S. OR APPROVED EQ. 800.699.1878	1" - 3" LAYER DEPTH; SEE DETAIL 4/L1.4
	ROCK MULCH TYPE 3	80% 1/2"-1" 20% 2"-4"	SANDY WASH MESA COBBLE	D.S.S. OR APPROVED EQ. 800.699.1878	4" LAYER DEPTH; SEE SHEET 5/L1.4
	ROCK MULCH TYPE 4	30% 1/2"-1" 70% 2"-4"	SANDY WASH MESA COBBLE	D.S.S. OR APPROVED EQ. 800.699.1878	4" LAYER DEPTH; SEE SHEET 5/L1.4

OTHER

- EXISTING BOULDER, PLACED PER PLAN; SEE DETAILS 1+2 / L1.4
- ROCK COBBLE AT DOWNSPOUTS; SEE DETAIL 7/L1.4
- LANDSCAPE LIMIT OF WORK
- 1 METAL HEADER PER 6/L1.4

Mulch Plan Notes:

1. Do not use organic mulch or any other combustible mulch within the project area.
2. Do not place any mulch at trees within lawn areas.
3. Do not place mulch at the trunk of any tree or plant; refer to details for further information.
4. Provide samples of mulch for review and approval by Owner's Representative and Landscape Architect prior to order; refer to specifications for requirements
5. Refer to Planting Plans for planting information.
6. Refer to Sheet L1.4 for boulder and gravel mulch details

I am familiar with the requirements for landscape and irrigation plans contained in the County Landscape Water Conservation regulations, in Title 8, Division 6, Chapter 7. I have prepared this plan in compliance with those regulations. I certify that the plan implements those regulations to provide efficient use of water.

9/19/2022

Frederick G Besançon, RLA 6055• Date

0 20' 40' N

MULCH PLAN

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MULCH PLAN

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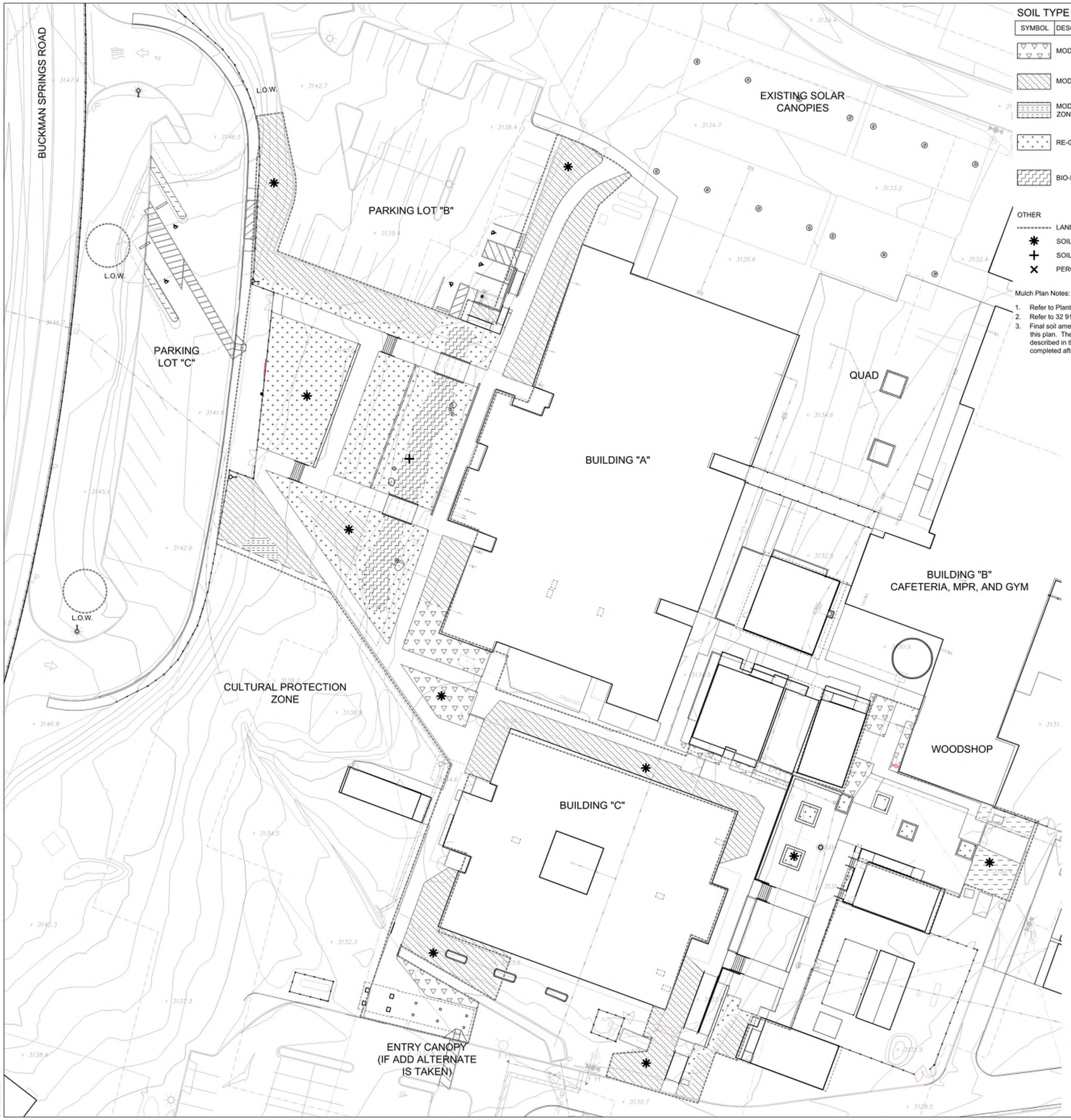

SOIL TYPE LEGEND

SYMBOL	DESCRIPTION	REMARKS
	MODIFIED EXISTING SOIL - COMPACTED	ADJUST AND AMEND BASED ON SOILS TESTS
	MODIFIED EXISTING SOIL - LOW ORGANIC MATTER	ADJUST AND AMEND BASED ON SOILS TESTS
	MODIFIED EXISTING SOIL - SOIL WITHIN ROOT ZONE OF ESTABLISHED TREES	ADJUST AND AMEND BASED ON SOILS TESTS; DO NOT DAMAGE EXISTING ROOTS PER TREE PROTECTION PLANS AND NOTES
	RE-GRADED SOIL	ADJUST AND AMEND BASED ON SOILS TESTS; SEE CIVIL DRAWINGS FOR EXTENT OF CUT AND FILL AREAS
	BIO-RETENTION SOIL	PER CIVIL; SEE CIVIL PLANS FOR EXTENTS AND DETAILS

OTHER

- LANDSCAPE LIMIT OF WORK
- SOIL AND PERCOLATION TEST LOCATION PER SPECIFICATIONS
- SOIL TEST LOCATION PER SPECIFICATIONS
- PERCOLATION TEST LOCATION PER SPECIFICATIONS

Mulch Plan Notes:

1. Refer to Planting Plans for planting information.
2. Refer to 32 91 00 Planting Soil specification for more information
3. Final soil amendments will be determined after the Contractor performs the Soils and Percolation Tests as shown on this plan. The Contractor shall include in their bid an allowance for the required amendments for soil leaching as described in the specifications. A Soils Management Plan, if required by the Authority Having Jurisdiction, will be completed after the construction soils tests.

I am familiar with the requirements for landscape and irrigation plans contained in the County Landscape Water Conservation regulations, in Title 8, Division 6, Chapter 7. I have prepared this plan in compliance with those regulations. I certify that the plan implements those regulations to provide efficient use of water.

9/19/2022

Frederick G Besançon, RLA 6055• Date

0 20' 40' N

SOILS PLAN

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SOILS PLAN

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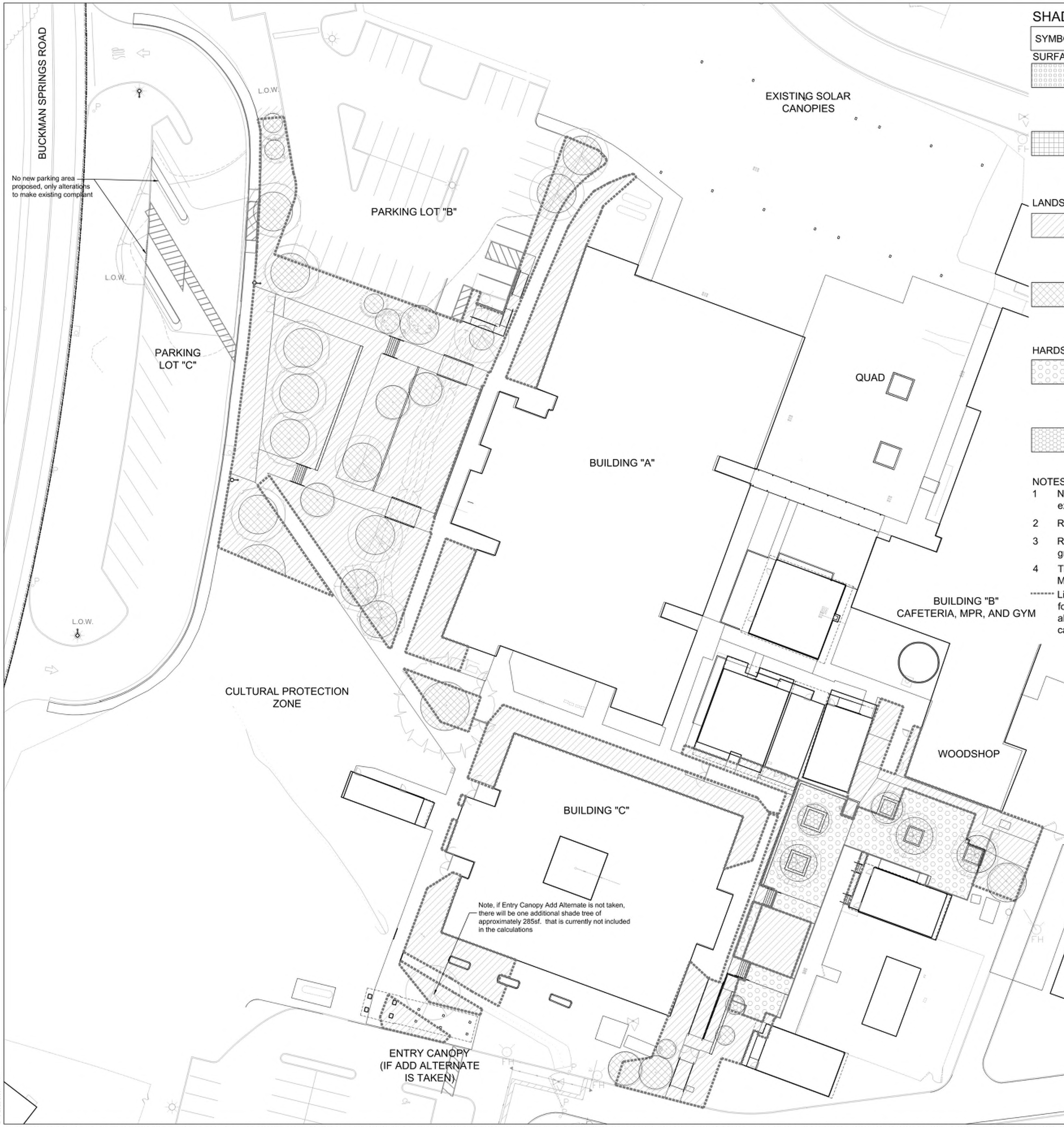

SHADE TREE CALCULATIONS (CalGREEN 5.106.12)

SYMBOL	DESCRIPTION	AREA
SURFACE PARKING AREAS CALCULATION (PER 5.106.12.1)		
	AREA OF NEW PARKING AREAS (SEE NOTE 1 BELOW)	0
	REQUIRED PERCENTAGE OF SHADE TREE COVERAGE	50%
	REQUIRED AREA OF SHADE TREE COVERAGE	N/A
	AREA OF TREES IN NEW LANDSCAPE PROVIDED	N/A
	PERCENTAGE OF SHADE TREES IN LANDSCAPE AREA	N/A
LANDSCAPE AREAS CALCULATION (PER 5.106.12.2)		
	AREA OF NEW LANDSCAPE	35,219 SF
	REQUIRED PERCENTAGE OF SHADE TREE COVERAGE	20%
	REQUIRED AREA OF SHADE TREE COVERAGE	7,044 SF
	AREA OF TREES IN NEW LANDSCAPE PROVIDED	7,048 SF
	PERCENTAGE OF SHADE TREES IN LANDSCAPE AREA	20%
HARDSCAPE AREAS CALCULATION (PER 5.106.12.3)		
	AREA OF NEW HARDSCAPE	5,116 SF
	REQUIRED PERCENTAGE OF SHADE TREE COVERAGE	20%
	REQUIRED AREA OF SHADE TREE COVERAGE	1,031 SF
	AREA OF TREES IN NEW LANDSCAPE PROVIDED	1,130 SF
	PERCENTAGE OF SHADE TREES IN LANDSCAPE AREA	22%

NOTES:

1. No new parking is proposed; proposed parking work is an alternation to existing parking to make compliant for accessiblility
2. Refer to Sheet L2.01 for irrigtion plan per 5.304.6
3. Refer to Sheet L1.2 for planting legend; note all trees will be installed in greater than No. 10 container size (15 gallon and larger)
4. Tree sizes for calculations use approximate sizes at 15 years after install. Matrue sizes are shown in light gray for reference.

Limit of New Landscape, Walkways, and Hardscape (see Landscape Plans) for shade tree calculations. Existing walkways or existing walkways that are alterations (such as meet accessibility compliance or finish) are excluded from calculation.

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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	04.29.22	DSA SUBMITTAL
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SHADE TREE DIAGRAM

L1.1D

SHADE TREE DIAGRAM

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PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	CONTAINER SIZE	QUANTITY	H	W	ON CENTER SPACING	PAVING OFFSET	SUN	WATER	NOTES
	EXISTING TREE	PROTECT IN PLACE PER L0.1 / L0.2									
	ARBUTUS UNEDO	STRAWBERRY TREE (NATURAL FORM / MULTI TRUNK)	48" BOX	5	35'	20'-30'	AS SHOWN	3'-6" MIN	FULL TO PART SHADE	LOW	
	CERCIS OCCIDENTALIS	WESTERN REDBUD (NATURAL FORM)	24" BOX	7	12'-20'	10'-15'	AS SHOWN	4' MIN	FULL TO PART SUN	VERY LOW	NATIVE
	FRAXINUS ANGUSTIFOLIA 'RAYWOOD'	RAYWOOD ASH / CLARET ASH	36" BOX	6	25'-35'	25'-30'	AS SHOWN	4' MIN	FULL SUN	MEDIUM	
	FRAXINUS VELUTINA 'RIO GRANDE'	FAN-TEX ASH	24" BOX	6	30'-50'	20'-30'	AS SHOWN	5' MIN	FULL SUN	MEDIUM	NATIVE
	HETEROMELES ARBUTIFOLIA "DAVIS GOLD"	TOYON	15 GAL	3	6'-10'	6'-8'	8'	5'	FULL TO PART SUN	LOW	NATIVE
	LAGERSTROEMIA INDICA X FAUERI 'ARAPAHO'	ARAPAHO CRAPE MYRTLE (MULTI TRUNK)	24" BOX	3	15'-20'	10'	10'	3'	FULL SUN	MEDIUM	
	PRUNUS ILICIFOLIA X ILISIFOLIA	HOLLYLEAF CHERRY	15 GAL	3	10'-25'	10'-25'	AS SHOWN	4' MIN	FULL TO PART SUN	MEDIUM	NATIVE
	QUERCUS ENGELMANNII	ENGELMANN OAK (STANDARD FORM)	48" BOX	1	25'-40'	40'-60'	AS SHOWN	4' MIN	FULL SUN	LOW	NATIVE
DROUGHT TOLERANT AND NATIVE PLANTS SUCH AS:											
	ACHILLEA MILLEFOLIUM 'CALISTOGA'	CALISTOGA YARROW	1 GAL	140	1'-3'	.5'-1.5'	18"	18"	FULL TO PART SUN	LOW	NATIVE
ALE	ARCTOSTAPHYLOS 'LOUIS EDMUNDS'	LOUIS EDMUNDS MANZANITA	15 GAL	8	4'-6'	6'-8'	10'	4'	FULL TO PART SUN	LOW	NATIVE
BP	BACCHARIS PILULARIS 'PIGEON POINT'	PIGEON POINT COYOTE BUSH	5 GAL	25	1'-2'	8'	10'-0"	4'	FULL TO PART SUN	LOW	NATIVE
C	CAREX TUMULICOLA	FOOTHILL SEDGE	1 GAL	36	1'-3'	1'-3'	30"	24"	FULL TO PART SUN	LOW	
CB	CEANOTHUS X 'BLUE JEANS'	BLUE JEANS CALIFORNIA LILAC	15 GAL	6	5'-6'	5'-6'	6'-0"	36"	FULL SUN	LOW	NATIVE
CV	CEANOTHUS MARITUMS 'VALLEY VIOLET'	VALLEY VIOLET CEANOTHUS	15 GAL	68	2'-3'	4'-5'	5'-0"	4'	FULL TO PART SUN	LOW	NATIVE
EC	ENCELIA CALIFORNICA	COAST SUNFLOWER	5 GAL	15	3'	5'	4'-6"	3'	FULL SUN	LOW	NATIVE
F	FESTUCA CALIFORNICA	CALIFORNIA FESCUE	1 GAL	163	1'-3'	3'	3'	2'	FULL TO PART SUN	LOW	NATIVE
	HEUCHERA SANGUINEA	CORAL BELLS	1 GAL	34	1'	1'	1'	1'	FULL TO PART SUN	MEDIUM	NATIVE
JP	JUNIPERUS CHINENSIS 'PARSONII'	PARSON'S JUNIPER	15 GAL	2	2'-3'	4'-10'	10'	6'	FULL TO PART SUN	LOW	
LC	LEYMUS CON. 'CANYON PRINCE'	CANYON PRINCE WILD RYE	1 GAL	46	2'-3'	4'-6'	5'	3'-6"	FULL TO PART SUN	LOW	NATIVE
L	LOMANDRA LONGIFOLIA 'LM400'	LOMANDRA	1 GAL	100	3'-4'	3'-4'	36"	2'	FULL TO PART SUN	LOW	NATIVE
RE	RHAMNUS CALIF. 'EVE CASE'	EVE CASE COFFEEBERRY	15 GAL	3	3'-6'	3'-6'	5'-6"	4'	FULL TO PART SUN	LOW	NATIVE
RH	ROSMARINUS O. 'HUNTINGTON CARPET'	CREEPING ROSEMARY	5 GAL	7	1'-2'	4'-8'	7'	4'	FULL SUN	LOW	
S	SALVIA CLEVELANDII 'POZO BLUE'	GREY MUSK SAGE	1 GAL	23	3'-5'	3'-5'	4'-6"	3'	FULL SUN	LOW	NATIVE
SB	SALVIA L. 'BEE'S BLISS'	BEE'S BLISS PURPLE SAGE	5 GAL	32	1'-2'	6'-8'	7'-6"	4'-6"	FULL SUN	LOW	NATIVE
	SALVIA SPATHACEA	HUMMINGBIRD SAGE	5 GAL	39	1'-2'	4'-5'	3'	4'-6"	FULL SUN	MEDIUM	NATIVE
ZC	ZAUSCHNERIA CALIFORNICA	CALIFORNIA FUCHSIA	5 GAL	36	1'-3'	3'-6'	5'	4'	FULL SUN	LOW	NATIVE
TURF											
	EWING KING FESCUE BLEND	EWING IRRIGATION PRODUCTS (800) 343-9464	SEED		APPROXIMIATELY 43.15% RHIZING STAR TALL FESCUE, 32.67% UNITUS TALL FESCUE; 23.44% MOTIF TALL FESCUE						
	SYNTIPEDE 343 OR APPROVED EQUAL	SYNLAWN (858) 299-0152	N/A								
MISCELLANEOUS											
	LANDSCAPE LIMIT OF WORK										
	ROOTBARRIER										
1	METAL HEADER PER 6/L1.4										
2	SEGMENTAL CONCRETE UNIT WALL PER 5/L1.4										

Planting Plan Notes:

1. See Sheet L1.2 for full Planting Legend and Planting Notes; See "B" Sheets for mulch information
2. See Sheet L0.1 for Tree and Cultural Protection Plan for existing trees and plants
3. Install root barriers in all instances where a tree trunk will be within 5' of adjacent paving, walls, curbs, any flatwork, or any other hardscape element. See Detail 7/L1.3 and specifications
4. Water use category is based on site location. Per WUCOLS IV Manual, 2014, assumed water usage is WUCOLS Zone 4, "South Inland Valley"

Planting Notes:

1. Verify locations of pertinent site improvements installed under other sections. If any part of this plan cannot be followed due to site conditions, contact landscape architect for instructions prior to commencing work.
2. Verify plant counts and square footages: quantities are provided as owner information only. If quantities on plant list differ from graphic indications, then graphics shall prevail.
3. Contact the local underground utility services for utility location and identification. Perform excavation in the vicinity of underground utilities with care and if necessary, by hand. The contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately at no expense to the owner. Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to satisfaction of the owner and operating authority at no additional cost.
4. Trees to be planted a minimum of 3 feet from pavement except as approved by Landscape Architect.
5. Provide matching forms and sizes for plant materials within each species and size designated on the drawings. Prune newly planted trees only as directed by landscape architect.
6. Align and equally space in all directions trees and shrubs so designated per these notes and drawings.
7. Plant material to be installed and maintained by a qualified and experienced landscape installer.
8. All materials are subject to the approval of the Landscape Architect and Owner's Representative at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. Stake all plant locations for review and approval by the landscape architect or owner's representative before planting. On-site adjustments may be required. Plants are to be freshly dug.
9. Transporting of plants shall be done in a manner as to not destroy the natural shape, compromise the health, or alter the characteristics of plant materials.
10. All plant beds shall receive 3" minimum of decorative gravel mulch (unless otherwise noted). Refer to Mulch Plans
11. Install all plant material in accordance with all local codes and ordinances. Coordinate with the owner to obtain any required permits necessary to complete work.
12. Protect all existing shrubs outside landscape scope of work; replace in kind any damaged plants that should occur during construction.
13. Do not plant any tree within the following distances to these site features:

- Traffic signals or stop signs: 20 feet
- Underground utility lines: 5 feet (10 feet for sewer)
- Above ground utility structures: 10 feet
- Intersections / Driveway to Road: 25 feet
- Fire Hydrants: 10 feet

Pre-Approved Nursery List

Business Name	Phone Number
Altman Speciality Plants	760.744.8191
Arbor Nursery	626.357.4823
Australian Native Plants	805.649.3362
B & B Nurserytown	951.926.1134
Baron Brothers Nursery, Inc.	805.484.0085
Barrels and Branches	760.753.2852
Berylwood Tree Farm	805.485.7601
Big Trees Nursery, Inc.	858.487.5553
Boething Treeland Farms	818.883.1222
Botanical Partners	760.758.6181
Briggs Tree Nursery	760.727.2727
Buena Creek Gardens	760.744.2810
California Cactus Center	626.795.2788
Cal-Tokyo Nursery	562.208.9534
Cedros Gardens	858.792.8640
Chia Nursery	805.684.3382
Choice Nursey	858.481.4151
Clauson Nursery	760.724.3143
Color Connection	951.927.1331
Cycads N Palms	760.728.4874
Durling Nursery	760.728.9572
E&K Groundcover	760.789.0924
El Nativo Growers	626.969.8449
Ellis Farms	760.767.5234
Evergreen Nursery	858.481.0622
Four Seasons Wholesale	818.700.0092
Foxtail Farms of California	619.669.7242
Ganters	760.758.8375
Good Earth Nursery	760.728.5177
Greelee Nursery	909.629.9045
Green Meadow Growers	760.751.0793
Grigsby Cactus	760.727.1323
Growest	714.528.0761
Hines Fallbrook	800.258.6472
Horakh Nursery	760.749.2108
Hunter's Nursery	619.463.9341
Jungle Music	619.291.4605
Kings River Nursery	559.787.3073
Las Pilitas Nursery	760.749.5930
Magic Growers	800.640.6244
Miramar Wholesale	858.552.0658
Mitsuma Nursery	800.824.0564
Monrovia Nursery	760.489.9203
Moosa Creek Nursery	760.749.3216
Mountain Herb Garden	619.445.8352
Native Sons Wholesale Nursery	805.481.5996
Native West Nursery	619.423.2284
Normans Nursery	626.285.9795
Orange County Nursery	800.569.0169
Otto & Sons Nursery	805.524.2123
Pacific West Tree Co.	559.805.5859
Pardee Tree Nursery	760.630.5400
Parkway Nursery (Palms)	760.639.4640
Perennial Adventure	619.660.9631
Performance Nursery	805.529.5446
Piergrossi Landscape	760.598.4882
Price's Nursery & Garden	760.777.7325
Rancho Soledad Nursery	858.756.3717
Roadrunner Tree Farm	760.767.3310
Roseland Nursery	760.728.8863
Sakioka Wholesale Nursery	714.898.0345
San Marcos Growers	805.683.1561
Santa Catalina Nursery	760.751.4035
Serra Gardens	310.456.1572
Sherman Nursery	760.471.9988
Silhouettes of the Desert	760.727.2935
Solana Succulents	858.259.4568
South Coast Palms	760.723.1354
Suilin and Whitney Robinson	760.758.3913
Suncrest Nurseries	800.949.5064
Sunny Slope	714.632.5550
Swan Hill Nursery, LLC	623.925.0545
Terra Bella Nursery	619.585.1118
Theodore Payne Foundation	818.768.1802
Timberline Trees	626.447.5690
Tomlinson Select Nurseries	760.727.2203
Tree of Life Nursery	949.728.0685
Tree Source	949.347.1191
Upper Chase Nursery	951.776.2868
Valley Crest Tree Company	805.524.3939
Ventura County Nursery, Inc.	805.644.7677
Village Nurseries	714.279.3100
WD Young & Sons	760.347.7906
Walker-Vice Nursery	619.749.1615
Walter Anderson's	619.224.8271
Weidner's Gardens	760.436.2194
West Coast Nurseries	760.436.1252
Western Cactus	760.726.1710
Yasuda Tree Nursery	619.262.0555

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Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL
	04.29.22	DSA SUBMITTAL

DAVY PROJECT No:	2017
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PLANTING LEGEND AND NOTES

L1.2

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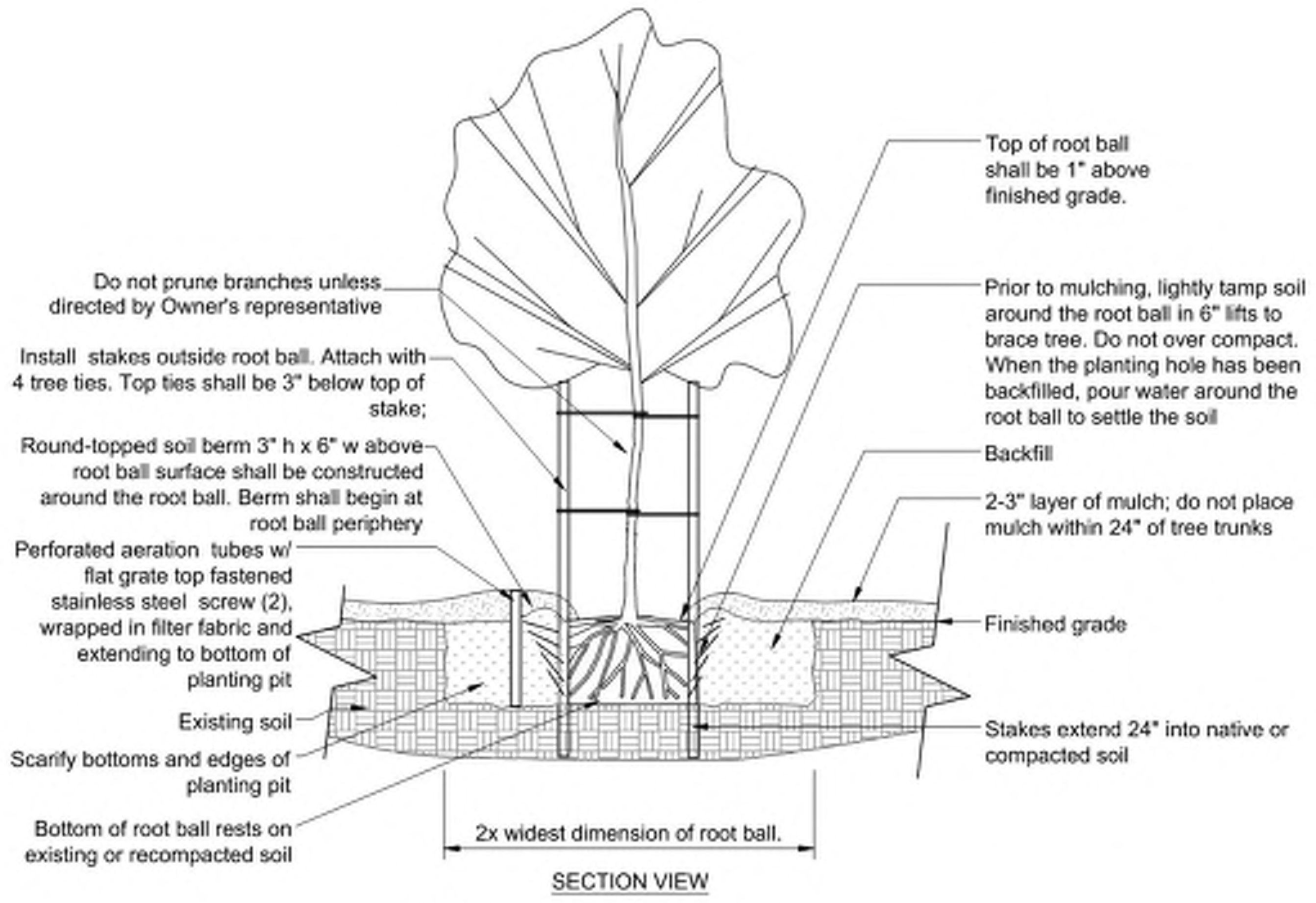
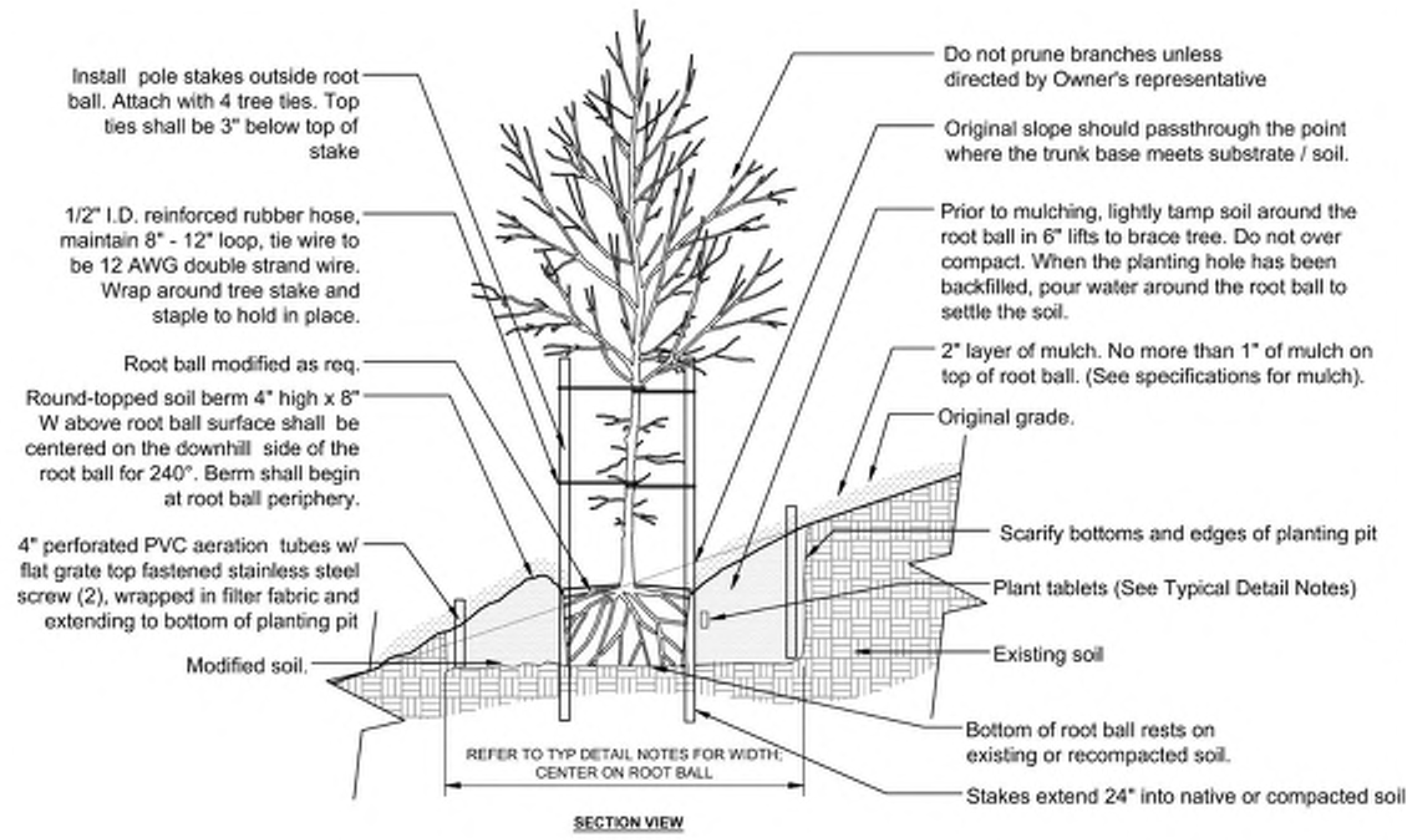


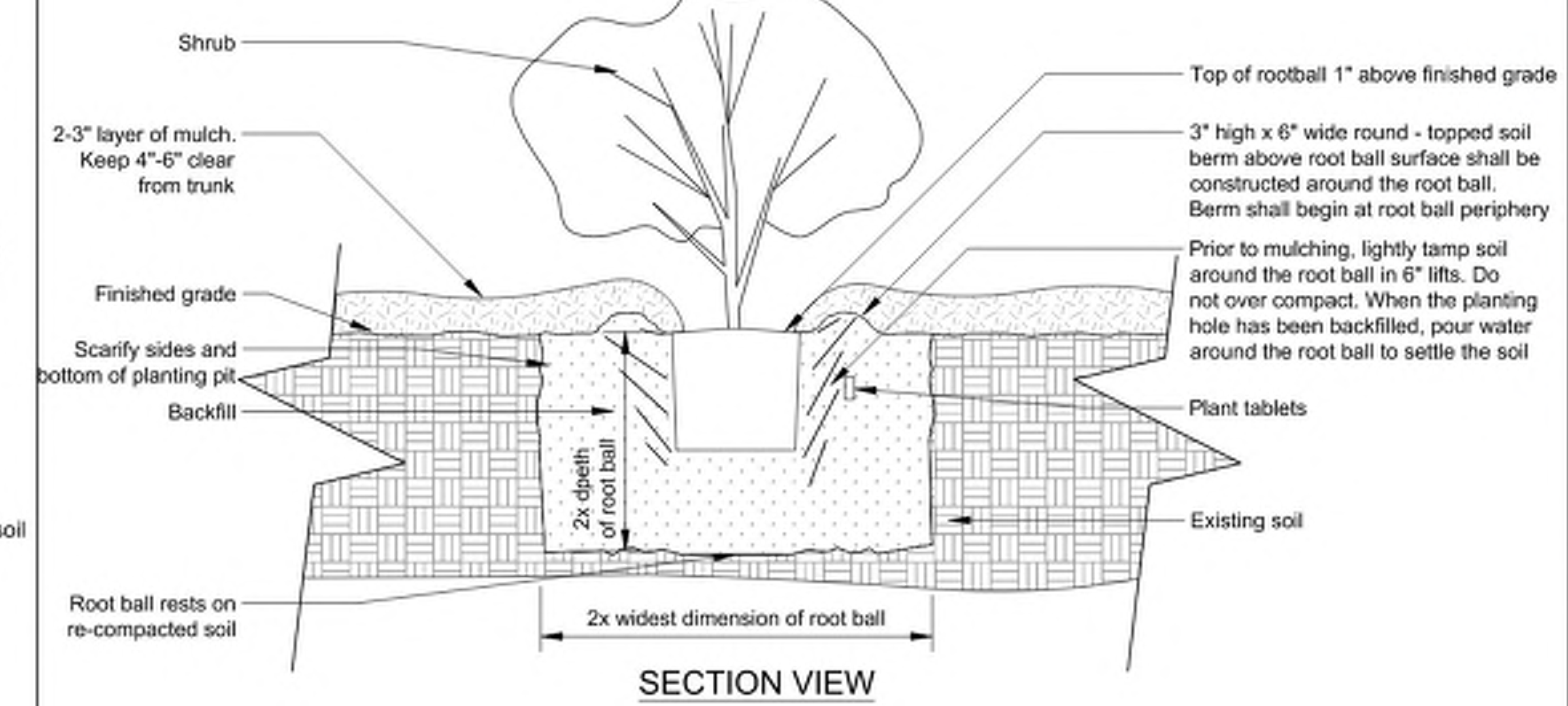
Notes:
1- Trees shall be of quality prescribed in specifications.
2- See specifications for further requirements for to this detail.

1. TYPICAL TREE INSTALLATION SCALE: 1/2"=1'-0"

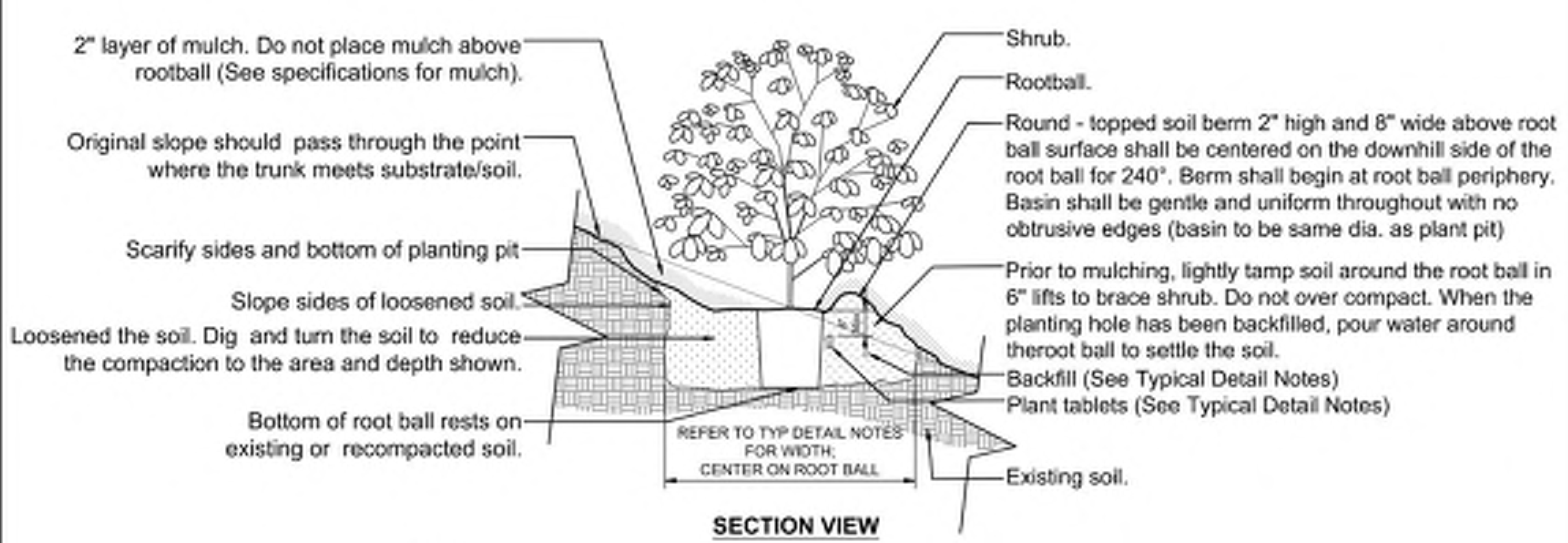


Notes:
1- Trees shall be of quality prescribed in crown observations and root observations details and specifications.
2- See specifications for further requirements for to this detail.

2. TYPICAL TREE INSTALLATION ON SLOPE SCALE: 1/2"=1'-0"

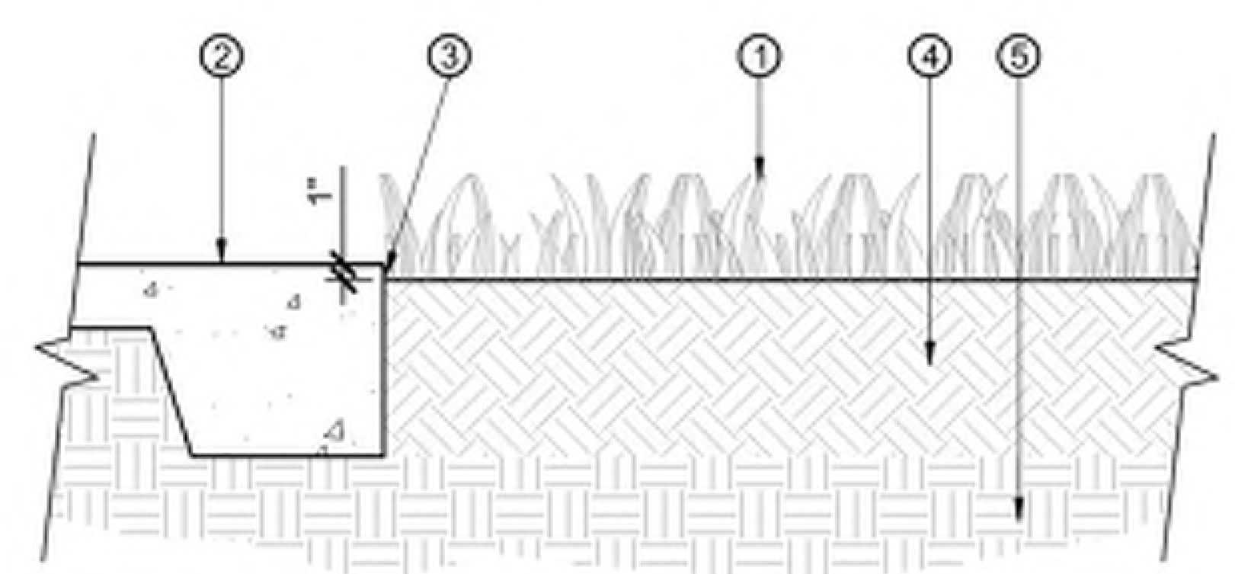


3. TYPICAL SHRUB INSTALLATION SCALE: 1"=1'-0"



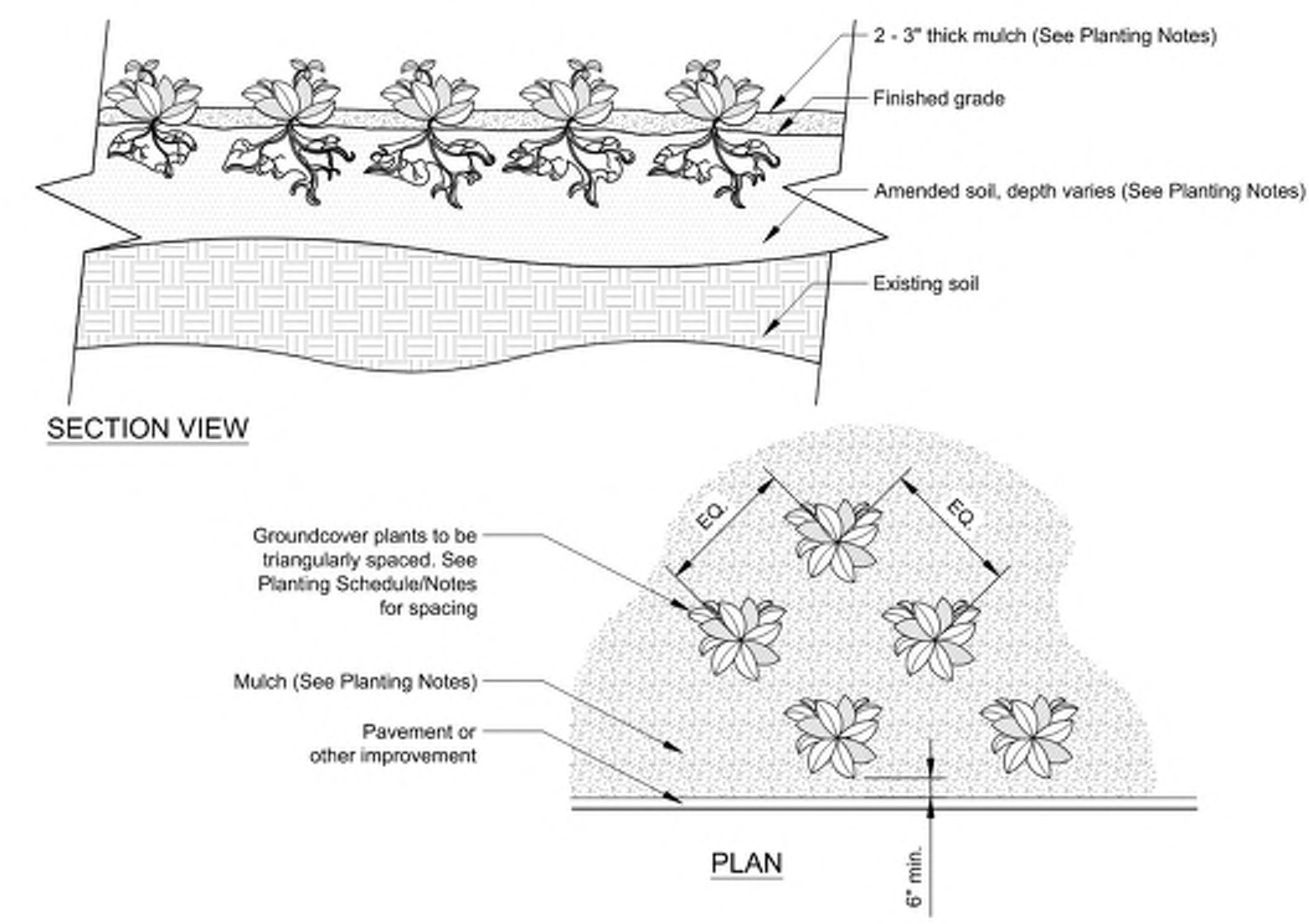
Notes:
1- Shrubs shall be of quality as prescribed in the root observations detail and specification.
2- See specifications for further requirements related to this detail.

4. TYPICAL SHRUB INSTALLATION ON SLOPE SCALE: 1"=1'-0"

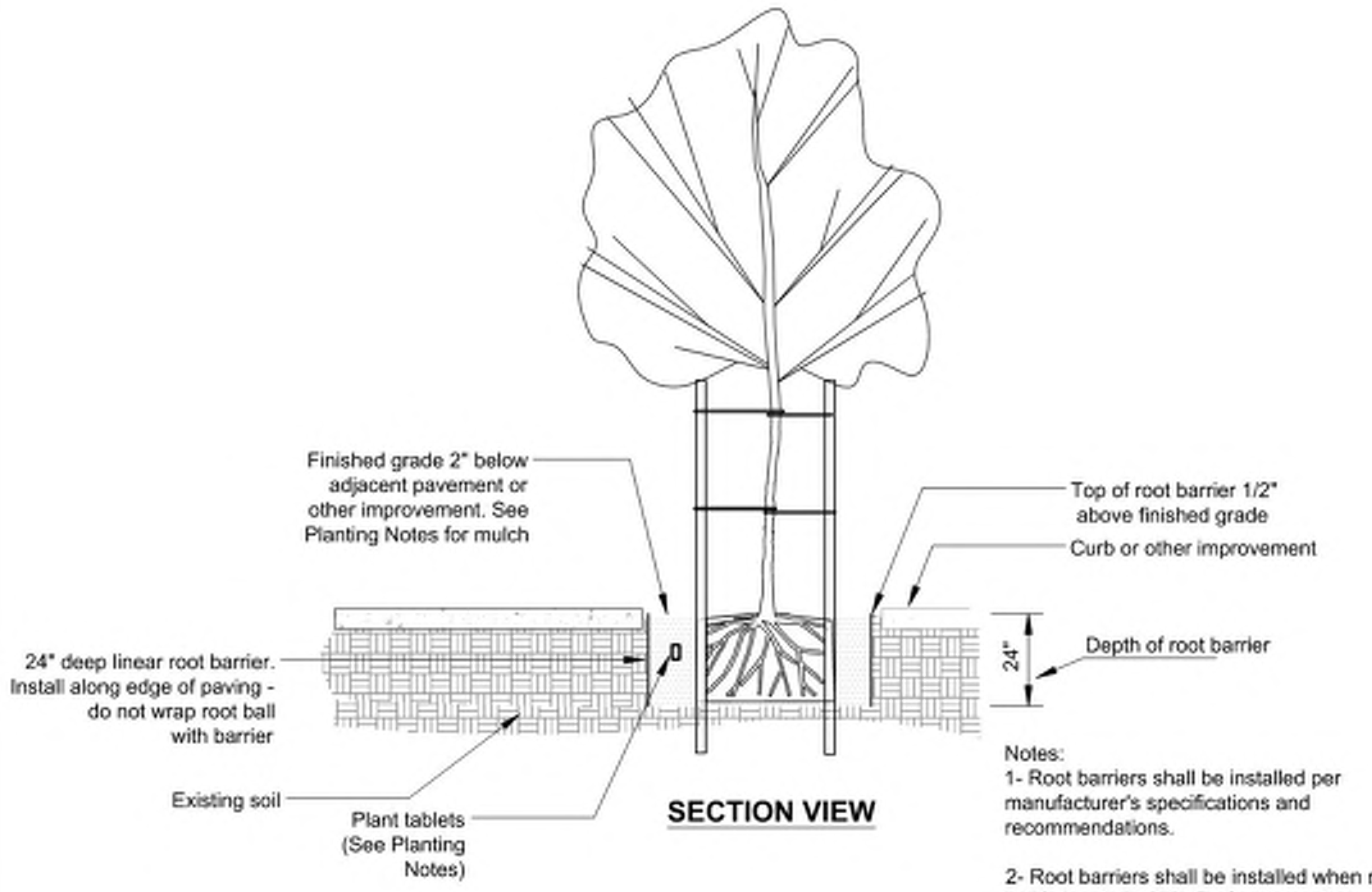


1. Turf as seed; refer to Planting Legend for species mix
2. Adjacent hardscape per Architect and Civil
3. Set finish grade 1 1/2" below adjacent paving
4. Planting soil, minimum of 12" depth; refer to specifications for soil preparation
5. Existing native sub-grade, undisturbed
6. Finish grade per Civil

5. TYPICAL TURF INSTALLATION SCALE: 1"=1'-0"



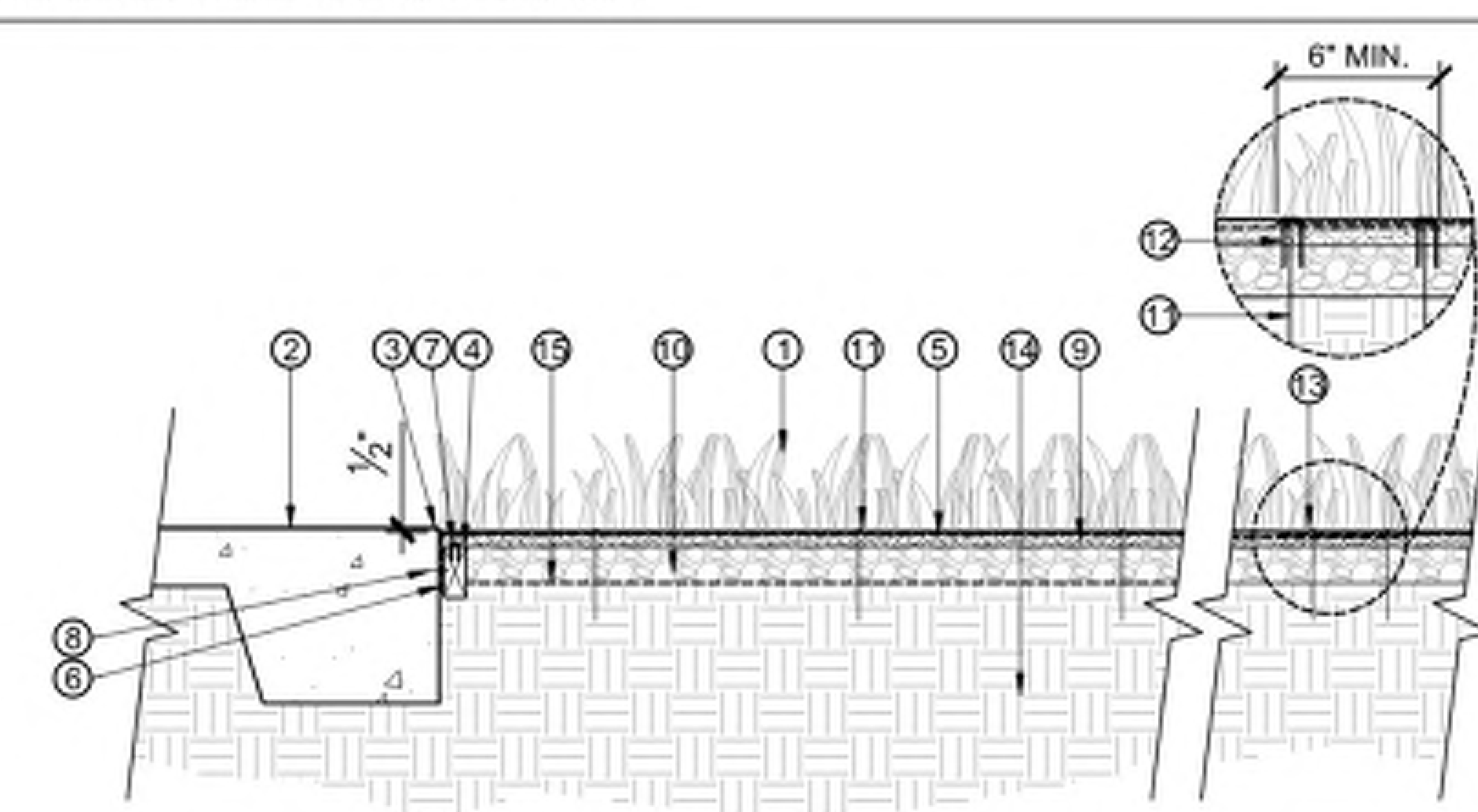
6. TYPICAL GROUNDCOVER INSTALLATION SCALE: 1"=1'-0"



Notes:
1- Root barriers shall be installed per manufacturer's specifications and recommendations.

2- Root barriers shall be installed when root ball is located within 5' of pavement or other improvements.

7. TYPICAL ROOT BARRIER INSTALLATION SCALE: 1/2"=1'-0"



1. Synthetic turf with high performance coated infill; refer to Planting Legend for information;
2. Adjacent hardscape per Architect and Civil
3. Set bottom of synthetic turf 1/4" below top of adjacent pavement
4. 2X4 Composite board installed along entire perimeter
5. Weed barrier
6. Tuck turf behind composite edging and attach with galvanized staples
7. 1" galvanized staple
8. Shot-nail composite edging to the side of adjacent paving
9. 1" layer of 1/4" leveling, compacted aggregate
10. 3" layer of 3/4" permeable,compacted crushed aggregate base
11. 6" galvanized spike at 18" O.C
12. Galvanized staples installed 1" from edge of synthetic turf, 6"-8" apart
13. Overlap ends of synthetic turf a minimum of 6"
14. Compacted sub-grade per Geotechnical Report
15. Geotextile

Notes:

1. Select and install aggregate, sub-grade, attachments, and other components per the synthetic turf manufacturer's recommendations and specifications

8. TYPICAL SYNTHETIC TURF INSTALLATION SCALE: 1"=1'-0"

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PLANTING DETAILS

L1.3

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ROCK AND MULCH DETAILS

L1.4

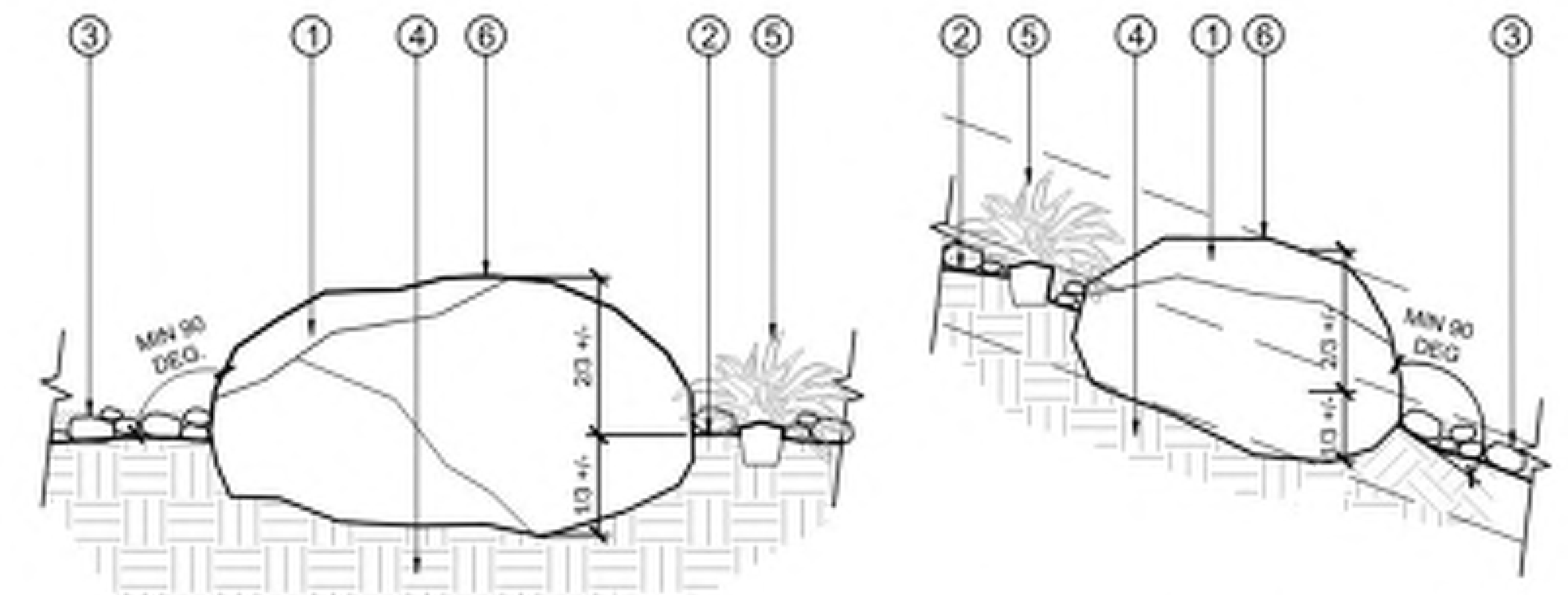
1. BOULDER NUMBERING — SCALE: N/A

PHOTOGRAPH SHOWING MIDDLE SCHOOL ENTRY

PHOTOGRAPH SHOWING HIGH SCHOOL ENTRY

Notes:
1. Refer to Mulch Plan and Details for boulder numbering and location.
2. Contractor shall review boulder positioning with Landscape Architect prior to placement.

2. TYPICAL BOULDER INSTALLATION — SCALE: 1/2"=1'-0"



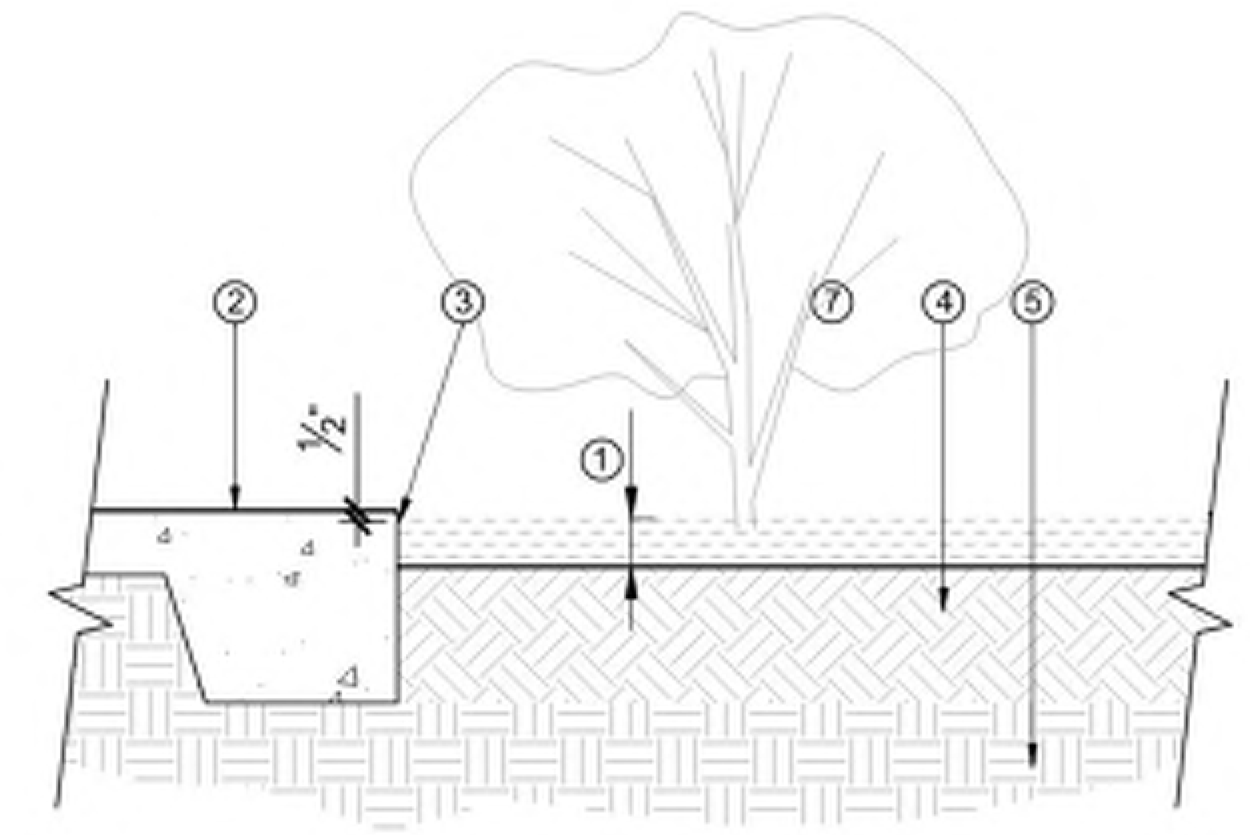
SECTION ON LEVEL GROUND

1. Boulder per Planting; size varies; set into grade a minimum of $\frac{1}{3}$ depth, TYP.
2. Finish grade per Civil
3. Rock mulch per Mulch Plans and Legend
4. 90% compacted subgrade at boulders; compaction at planting area per specifications
5. Planting per Planting Plan
6. Roughly even profile at top of rocks

SECTION ON SLOPED GROUND

Notes:
1. Refer to Planting Plan for boulder numbering, size, and location.
2. Contractor shall review boulder positioning with Landscape Architect prior to placement
3. Grind all exposed boulder edges to eliminate sharp protrusions
4. Boulders shall be placed so that a flat surfae faces up with no protrusion extending vertically

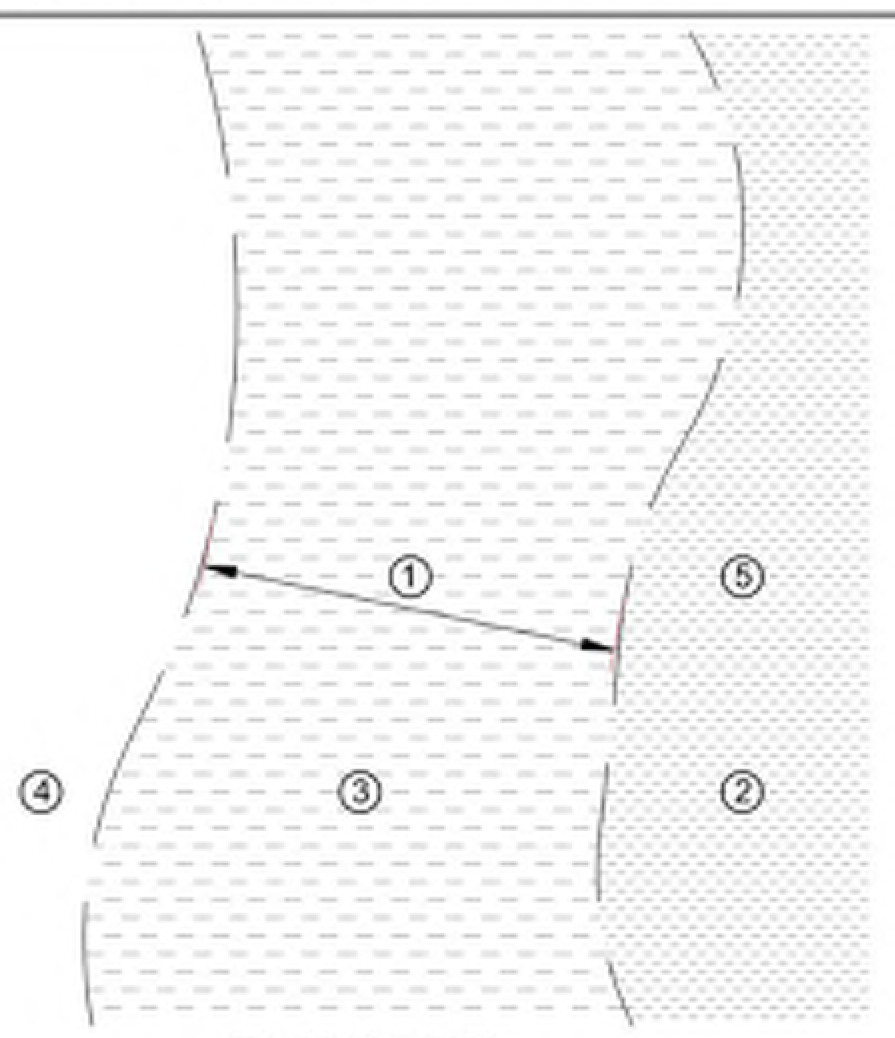
3. TYPICAL GRAVEL MULCH INSTALLATION — SCALE: 1"=1'-0"



SECTION VIEW

1. Depth of mulch per Mulch Plan and Legend, a minimum of 3"
2. Adjacent hardscape per Architect and Civil
3. Set top of mulch 1/2" below adjacent paving
4. Planting soil, minimum of 12" depth; refer to specifications for soil preparation
5. Existing native sub-grade, undisturbed
6. Finish grade per Civil
7. Planting area per Planting Plan and Legend

4. GRAVEL TRANSITION TO EXISTING BASE SOIL — SCALE: 1"=1'-0"

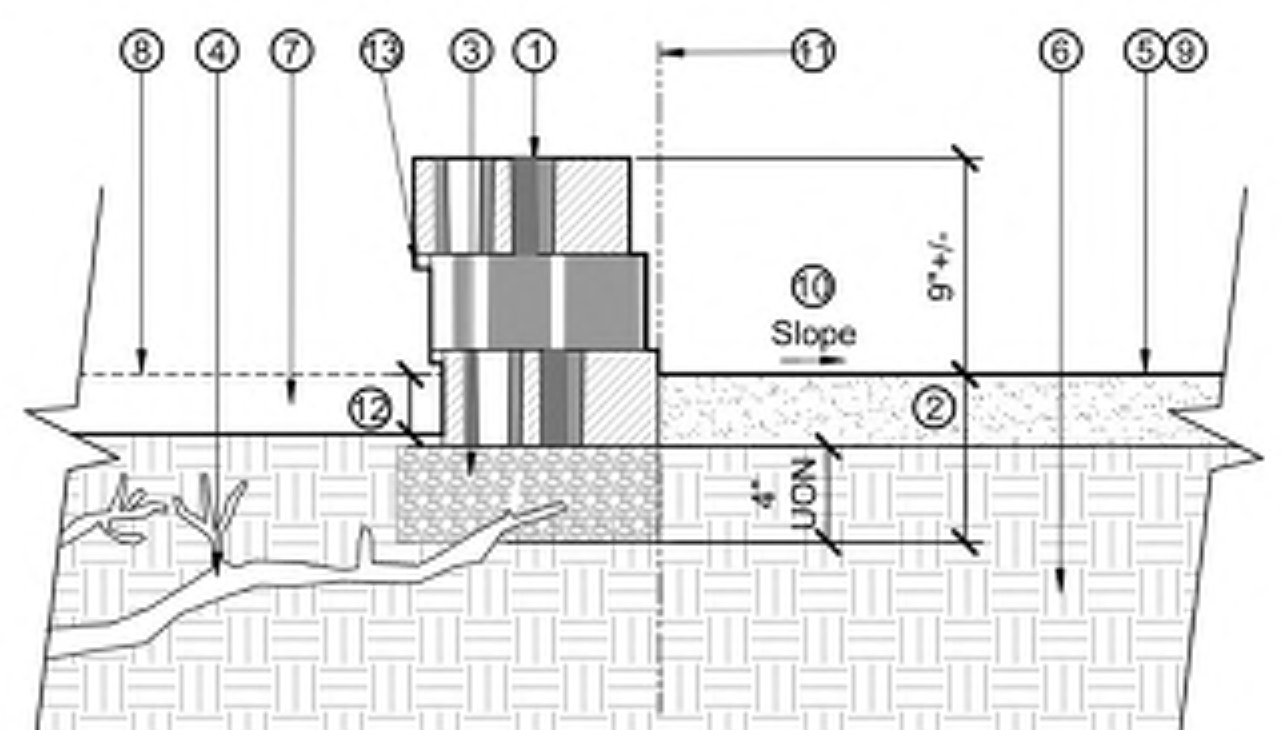


PLAN VIEW

1. Width varies between 3' to 6' in width; refer to Mulch Plan
2. Rock mulch applied at full 100% coverage per Mulch Plan and Legend
3. Rock mulch applied at approximately 50% depth; feather edge to bare dirt to avoid a strong line of rock mulch
4. Existing bare soil
5. Planting area per Planting Plan and Legend

Notes:
1. Cover all areas that are planted or irrigated with full depth and coverage of rock mulch per Mulch Plan and Legend, Planting Details, and Irrigation Details
2. Refer to Civil for finish grade elevation

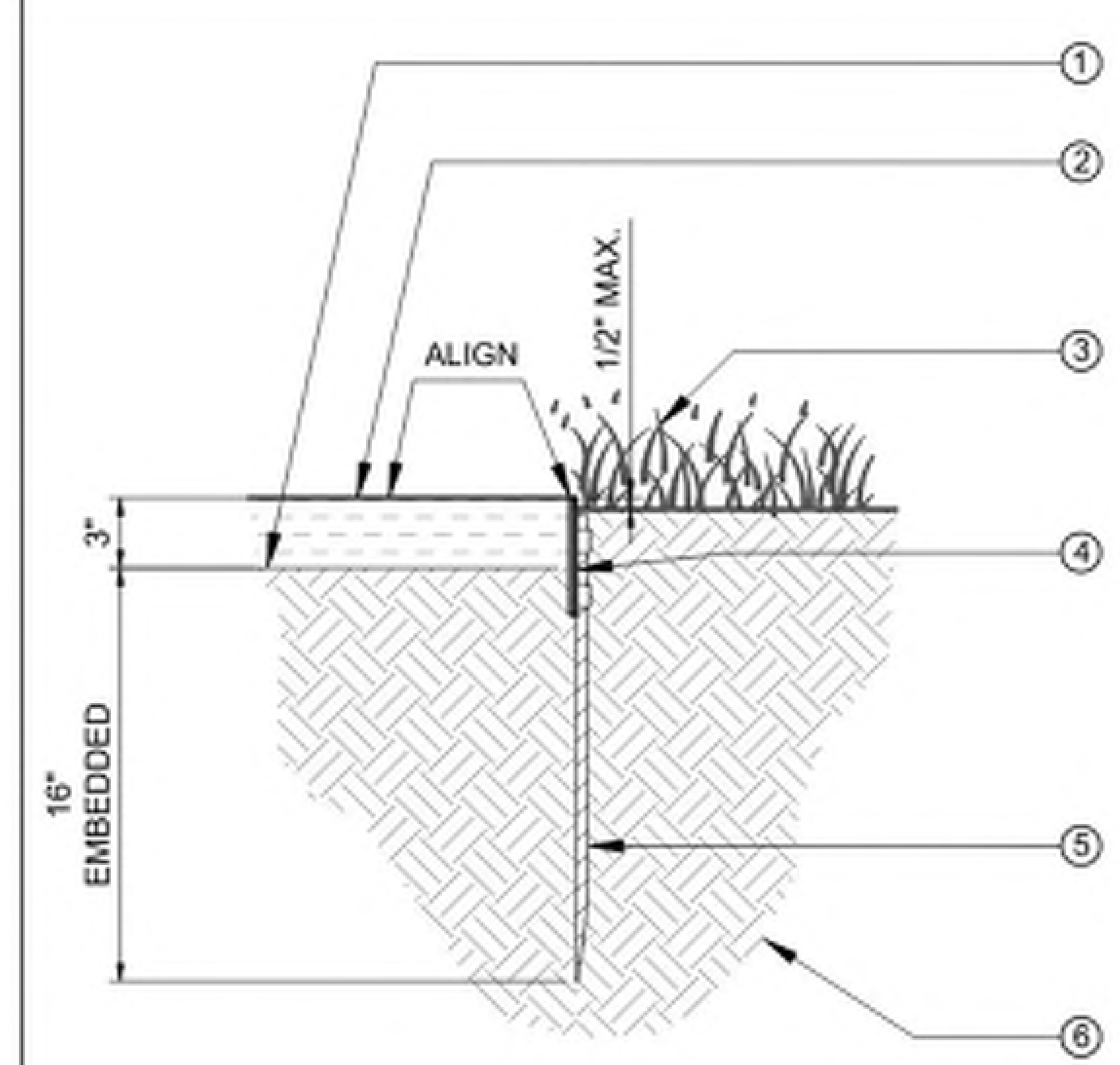
5. GARDEN WALL AT EXISTING TREE — SCALE: 1 1/2"=1'-0"



1. Dry stack concrete garden wall blocks; stagger vertical joints
2. Embedment depth, minimum of one half block depth
3. Well-graded granular rock per specifications and Manufacturer Recommendations; layering depth and layout per block wall manufacturer's requirements
4. Existing tree roots
5. Existing nonstabilized granite surface
6. Existing subgrade
7. Excavate existing nonstabilized granite fill approximately 6" to expose tree root flare per Arborist Report.
8. Existing finish grade
9. Finish grade
10. Slope to adjacent catch basin per Civil
11. Edge of Tree Protection Zone per Arborist Report; verify wall's location with Project Arborist
12. Excavate 2"-3" of existing fill before placing garden wall blocks
13. Integrated retaining lug; align upper course per manufacturer's recommendations

Notes:
1. Review Arborist Report, Tree Protection Plan, and Tree Protection Notes for work around existing tree.
2. Do not excavate. Take extreme caution as to not damage roots. Minimize any root pruning.
3. Match concrete block color and finish of existing block located in drainage swale between Middle School and access road
4. Hand grind all exposed sharp edges in concrete block
5. Do not add soil back after excavation without direction from Project Arborist

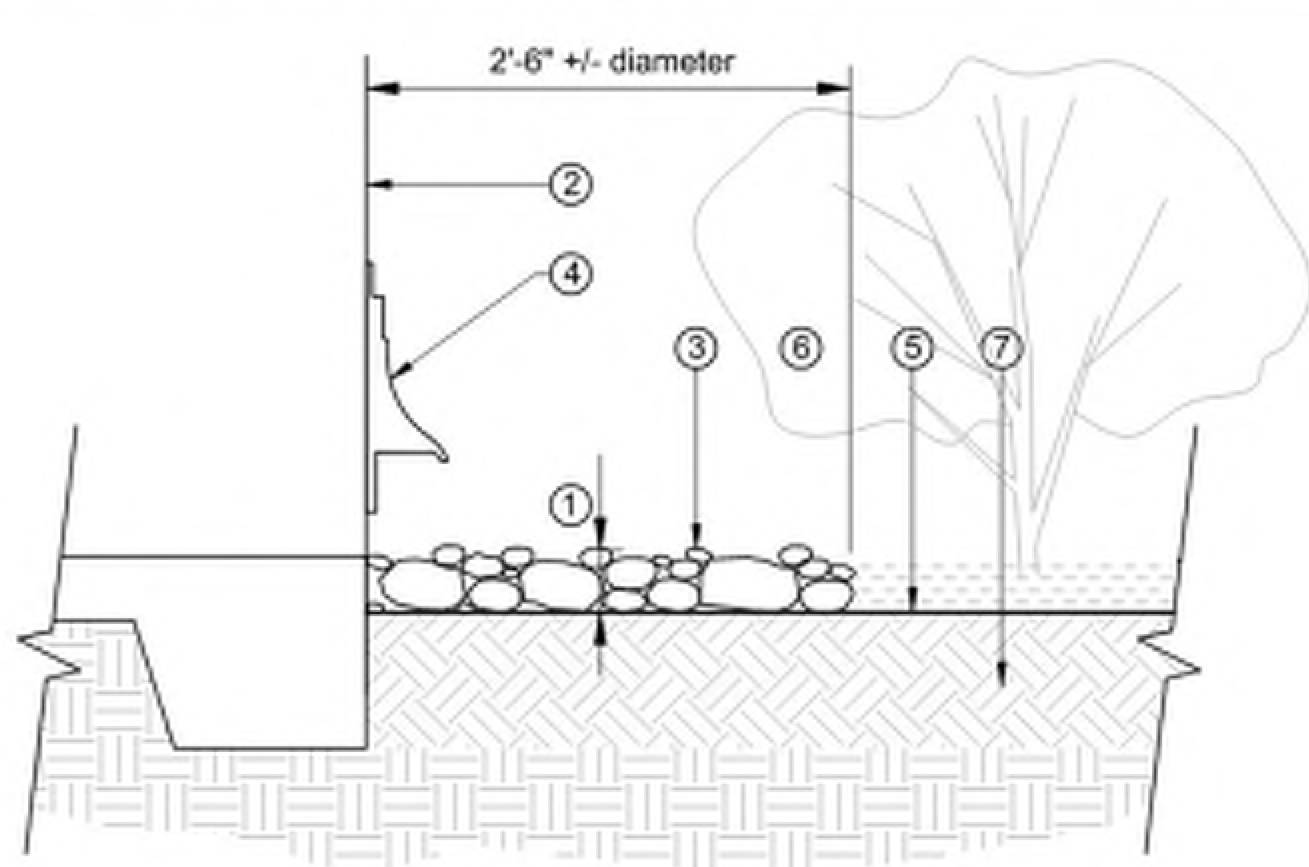
6. METAL HEADER AT ROCK MULCH — SCALE: 1 1/2"=1'-0"



1. Finish grade per plans
2. Gravel mulch per Mulch Plan
3. Existing turf per plans
4. 1/4" Thick, 5" deep, black powder-coated steel edging, layout per plans
5. 7 Gauge black powder- coated steel stake from edging manufacturer
6. Existing planting soil

NOTES:
1. 16' Metal edging section to include (7) stakes at minimum
2. All steel edging and stake material shall be powder-coated at edging manufacturer's facilities
3. Use manufacturer's pre-fabricated corners where applicable
4. Avoid damaging roots of any adjacent tree
5. Basis of design is "Duraedge" steel edging from J.D. Russell or approved equal

7. LARGER COBBLE AT DOWNSPOUTS — SCALE: 1"=1'-0"

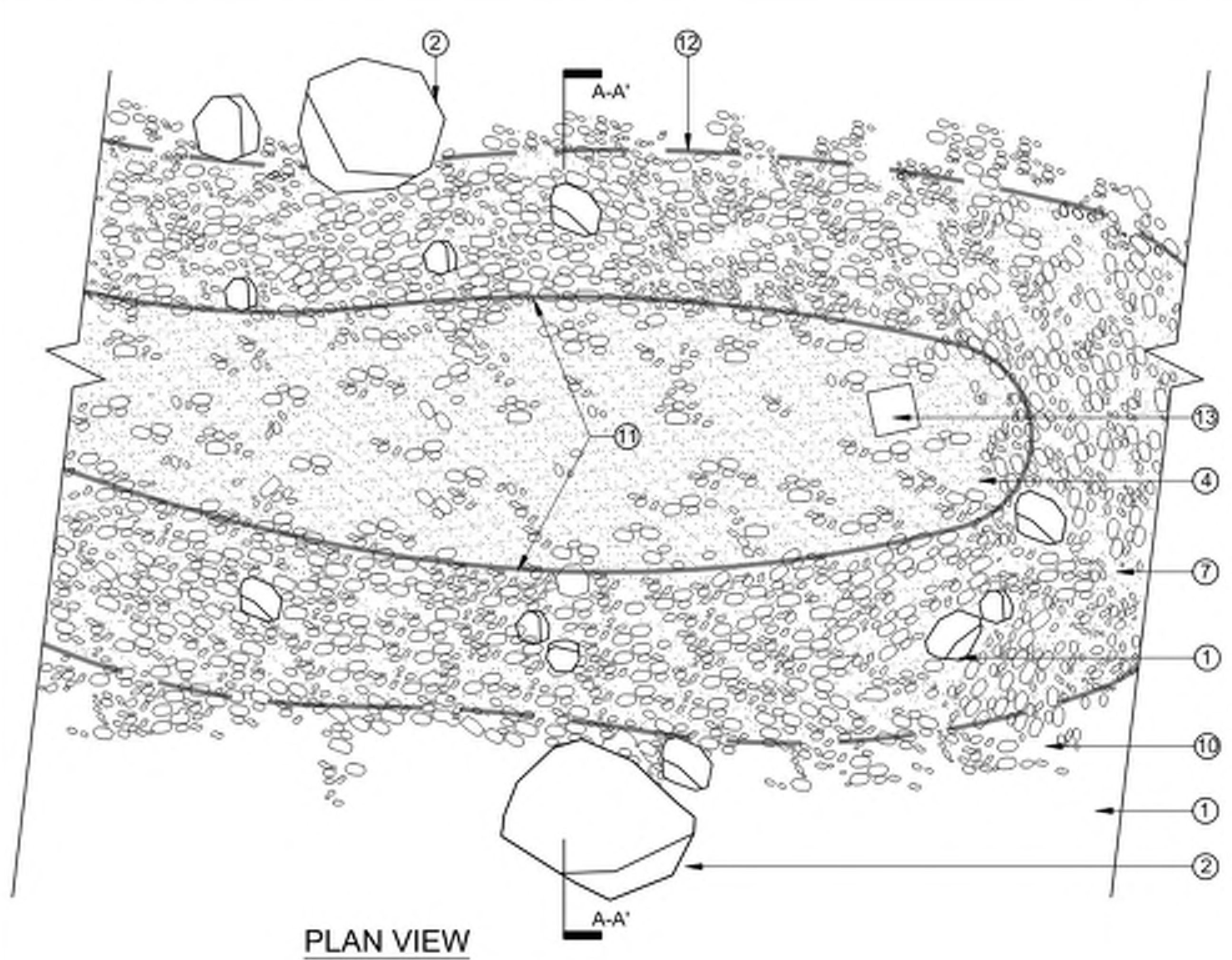


SECTION VIEW

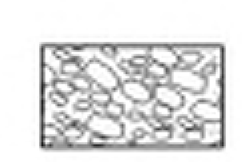
1. Depth of mulch per Mulch Plan and Legend, a minimum of 4"
2. Face of building and footing per Architect
3. Use larger cobble in Rock Mulch Type 3, per Mulch Legend
4. Roof drain and scupper per Architect
5. Finish grade per Civil
6. Planting area per Planting Plan and Legend
7. Planting soil per specifications

Notes:
1. Refer to Civil for finish grade elevations and drainage patterns
2. Do not provide rock mulch where scupper abuts hardscape paving or similar.

8. GRAVEL MULCH INSTALLATION AT BIO RETENTION — SCALE: 1/2"=1'-0"

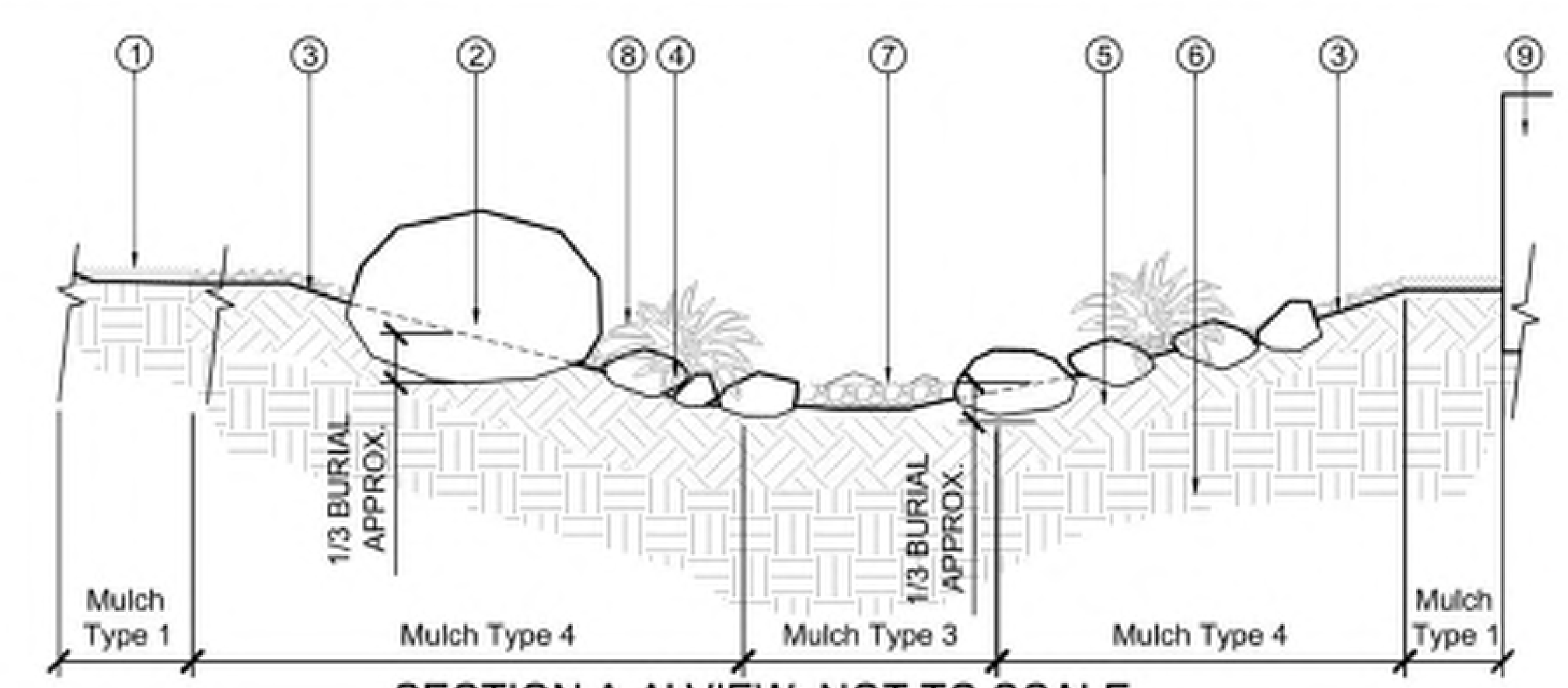


PLAN VIEW



Rock Mulch Type 3
Dry basin with smaller rock filling up the majority of the basin's bottom with larger cobble in smaller groups. Place larger cobble into basin soil approximately 1/3 of the soil in groups of 3-7 rocks in random arrangements that generally follow the water's flow. Infill with smaller rock to cover bare dirt and fill gaps between rocks.

Rock Mulch Type 4
Basin edges consisting of larger cobble and boulders with groups that generally follow the basin's contours. Place larger cobble into basin sides approximately 1/3 of the soil in large groups. Infill with smaller rock to cover bare dirt and fill gaps between rocks.



SECTION A-A' VIEW; NOT TO SCALE

1. Adjacent mulch zone per Mulch Plan and Legend
2. Boulder per Mulch Plan and Legend; install per 2/L1.4 and outside retention liner
3. Finish grade per Civil
4. Rock Mulch Type 4 per Mulch Plan and Legend
5. Bio-retention soil per Civil
6. Existing subgrade
7. Rock Mulch Type 3 per Mulch Plan and Legend
8. Planting per Planting Plans
9. Existing Concrete Wall, protect per Architect
10. Feather Rock Mulch Type 3 into the surrounding rock mulch without an abrupt change of material
11. Edge of basin bottom, per Civil
12. Approximate location of liner, per Civil
13. Catch basin, per Civil

Notes:
1. Contractor shall review boulder positioning with Landscape Architecture prior to placement
2. Keep all mulch away from plants per planting details
3. Refer to Civil Plans and Details for Bioswale installation including soil, grading, and liner.
4. Refer to Mulch Plan for extent of different mulch and rock types
5. Place boulders and rock prior to installing plants.

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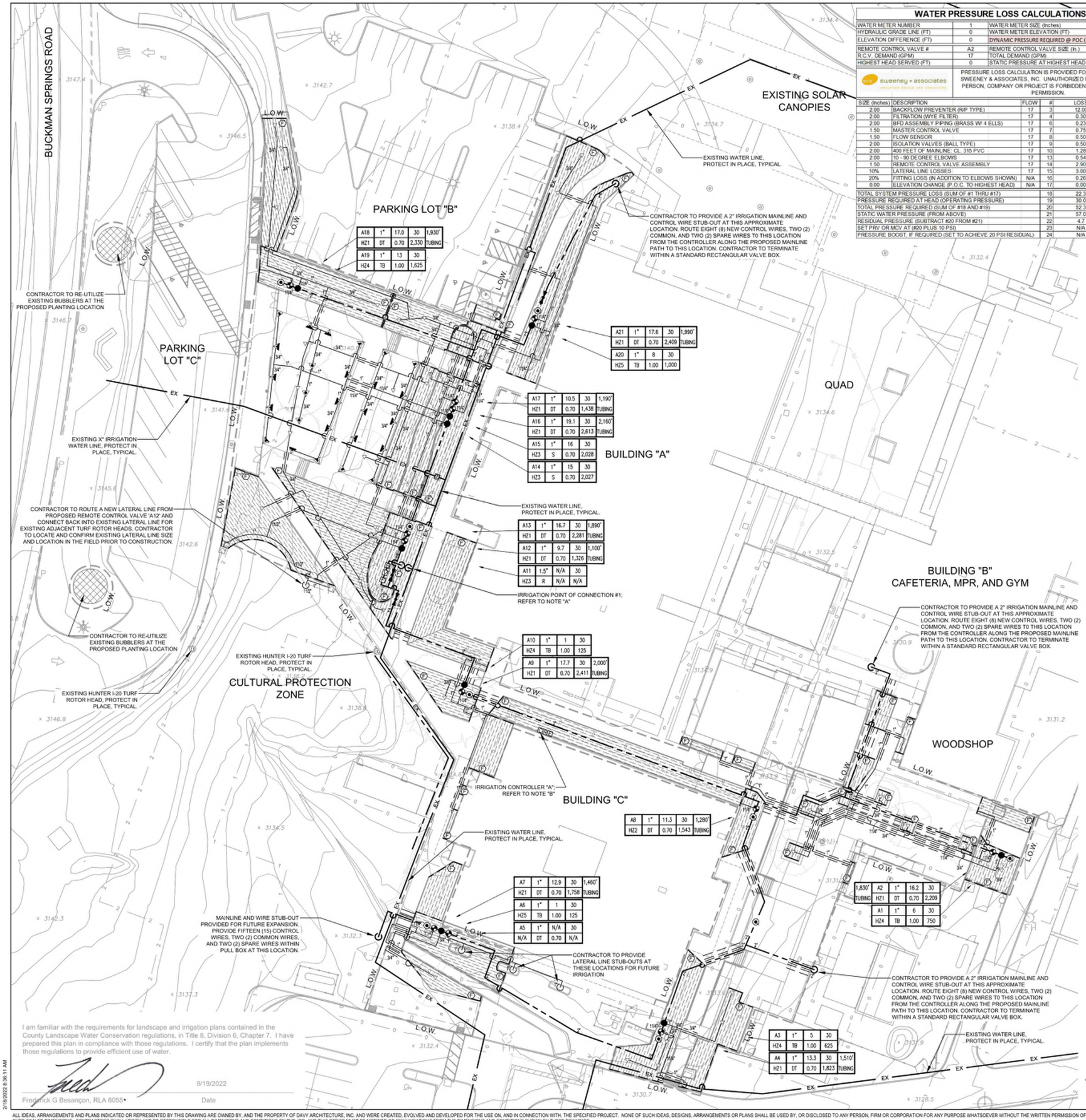

WATER PRESSURE LOSS CALCULATIONS

WATER METER NUMBER	1	WATER METER SIZE (Inches)	N/A
HYDRAULIC GRADE LINE (FT)	0	WATER METER ELEVATION (FT)	0
ELEVATION DIFFERENCE (FT)	0	DYNAMIC PRESSURE REQUIRED @ POC (PSI)	57.0
REMOTE CONTROL VALVE #	A2	REMOTE CONTROL VALVE SIZE (In.)	1.00
R.C.V. DEMAND (GPM)	17	TOTAL DEMAND (GPM)	17
HIGHEST HEAD SERVED (FT)	0	STATIC PRESSURE AT HIGHEST HEAD	0.0

sweeney + associates — IRRIGATION DESIGN AND CONSULTING

PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

SIZE (Inches)	DESCRIPTION	FLOW	#	LOSS	
2.00	BACKFLOW PREVENTER (R/P TYPE)	17	3	12.00	PSI
2.00	FILTRATION (WYE FILTER)	17	4	0.30	PSI
2.00	BFD ASSEMBLY PIPING (BRASS W/ 4 ELLS)	17	6	0.23	PSI
1.50	MASTER CONTROL VALVE	17	7	0.75	PSI
1.50	FLOW SENSOR	17	8	0.50	PSI
2.00	ISOLATION VALVES (BALL TYPE)	17	9	0.50	PSI
2.00	400 FEET OF MAINLINE CL. 315 PVC	17	10	1.28	PSI
2.00	10 - 90 DEGREE ELBOWS	17	13	0.54	PSI
1.50	REMOTE CONTROL VALVE ASSEMBLY	17	14	2.90	PSI
10%	LATERAL LINE LOSSES	17	15	3.00	PSI
20%	FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)	N/A	16	0.26	PSI
0.00	ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	N/A	17	0.00	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)			18	22.3	PSI
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)			19	30.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)			20	52.3	PSI
STATIC WATER PRESSURE (FROM ABOVE)			21	57.0	PSI
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)			22	4.7	PSI
SET PRV OR MCV AT (#20 PLUS 10 PSI)			23	N/A	PSI
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL)			24	N/A	PSI

NOTE A:
POINT OF CONNECTION (POC) #1 SHALL BE A CONNECTION TO THE EXISTING 2" WATER SUPPLY LINE DOWNSTREAM OF WATER TANK AND PUMP. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MINIMUM REQUIRED WATER PRESSURE AT POC: 57 PSI (DYNAMIC)
DESIGN WATER PRESSURE: 52 PSI
MAXIMUM SYSTEM DEMAND: 17 GPM
RESIDUAL WATER PRESSURE: 5 PSI

NOTE B:
CONTROLLER "A" SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC. THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE D:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE F:
PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SCALED SHOP DRAWING INDICATING THE PROPOSED LOCATIONS FOR THE IRRIGATION EQUIPMENT LISTED BELOW. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT. SHOP DRAWINGS MUST INCLUDE THE PROPOSED LOCATIONS FOR THE FOLLOWING ITEMS:

1. POINT OF CONNECTION (INCLUDING WATER POC, BACK FLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.)
2. ISOLATION VALVES
3. AUTOMATIC CONTROL VALVES (INDICATE STATION NUMBER)
4. QUICK COUPLING VALVES
5. IRRIGATION CONTROLLER(S)
6. RELATED EQUIPMENT (AS MAY BE DIRECTED).

EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S PROPOSED INSTALLED LOCATION SHOWN ON THE SHOP DRAWINGS. THE SYMBOL FOR EACH PRODUCT SHALL BE A SCALED REPRESENTATION OF THE FOOTPRINT OF THE EQUIPMENT OR THE VALVE BOX IN WHICH THE EQUIPMENT IS INSTALLED. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE THE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE. ANY IRRIGATION EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL WITH SHOP DRAWINGS WILL BE SUBJECT TO RELOCATION BASED ON DIRECTION BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND UPON COMPLETION OF WORK.

NOTE 4:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 6:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE 7:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 8:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE 9:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

I am familiar with the requirements for landscape and irrigation plans contained in the County Landscape Water Conservation regulations, in Title 8, Division 6, Chapter 7. I have prepared this plan in compliance with those regulations. I certify that the plan implements those regulations to provide efficient use of water.

Frederick G Besançon, RLA 6055 — 9/19/2022 Date

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38700 Sky Canyon Drive, Suite C
Murrieta, Ca 92563
e: info@sweeneyassoc.com t: (951) 461-6830
w: www.sweeneyassoc.com f: (951) 461-6850

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED LANDSCAPE ARCHITECT — Frederick G. Besançon — License No. 6055 — Expires 10/31/2023 — 08/19/2022 — STATE OF CALIFORNIA

CONNECTEDstudio landscape architecture
P.O. BOX 742221 SAN DIEGO, CA 92174
619.282.3011

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.22	DSA SUBMITTAL
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: EB
CHECKED BY: DB

IRRIGATION PLAN

L2.01

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IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
15. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT OR 811 A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND HAVE THE EXISTING UTILITIES IDENTIFIED, LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Project Name: Mountain Empire Junior High School Mod.

Project Address: 3305 Buckman Springs Rd, Pine Valley, California 91962

sweeney + associates — IRRIGATION DESIGN AND CONSULTING

Reference Evapotranspiration (ETo) 54.8 In./Yr. **Residential Project?** No

Hydrozone # / Planting Description[a]	Plant Factor	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
1. Low Water Use Plantings	0.20	Drip	0.81	0.25	20,598	5,150	174,959
2. Moderate Water Use Plantings	0.40	Drip	0.81	0.50	1,543	772	26,212
3. High Water Use Turf	0.70	Ovehead	0.75	0.94	4,055	3,812	129,506
4. Low Water Use Trees	0.30	Bubblers	0.81	0.38	3,125	1,188	40,347
5. Medium Water Use Trees	0.40	Bubblers	0.81	0.50	1,125	563	19,112
				Totals:	**30,446**	**11,483**	
		Estimated Total Water Use (ETWU) Total:					**390,136**
		Maximum Applied Water Allowance (MAWA)[e]:					**465,495**

[a] **Hydrozone # / Planting Description** — *E.g. 1.) Front Lawn 2.) Low Water Use Plantings 3.) Medium Water Use Plantings*

[b] **Irrigation Method** — *Overhead Spray of Drip*

[c] **Irrigation Efficiency** — *0.75 for Spray; 0.81 for Drip*

[d] ***ETWU (Annual Gallons Required)*** = *ETo x 0.62 x ETAF x Area*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.

[e] ***MAWA (Annual Gallons Allowed)*** = *ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year. LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.

Evapotranspiration Adjustment Factor (ETAF) Calculations

This non-residential project complies with the WELO and its average ETAF is less than 0.45

Regular Landscape Areas	
Total ETAF x Area	11,483
Total Area	30,446
Average ETAF	**0.38**

All Landscape Areas	
Total ETAF x Area	11,483
Total Area	30,446
Average ETAF	**0.38**

IRRIGATION CONTROLLER RUN TIMES

POC or Controller: **A**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
ETo / Month (Inches):	1.50	2.40	3.80	5.10	6.00	7.00	7.80	7.30	6.00	4.00	2.20	1.70	54.80
ETo / Day (Inches):	0.05	0.09	0.12	0.17	0.19	0.23	0.25	0.24	0.20	0.13	0.07	0.05	0.15
Irrigation Days / Week:	3	4	4	5	5	6	6	6	5	4	4	3	

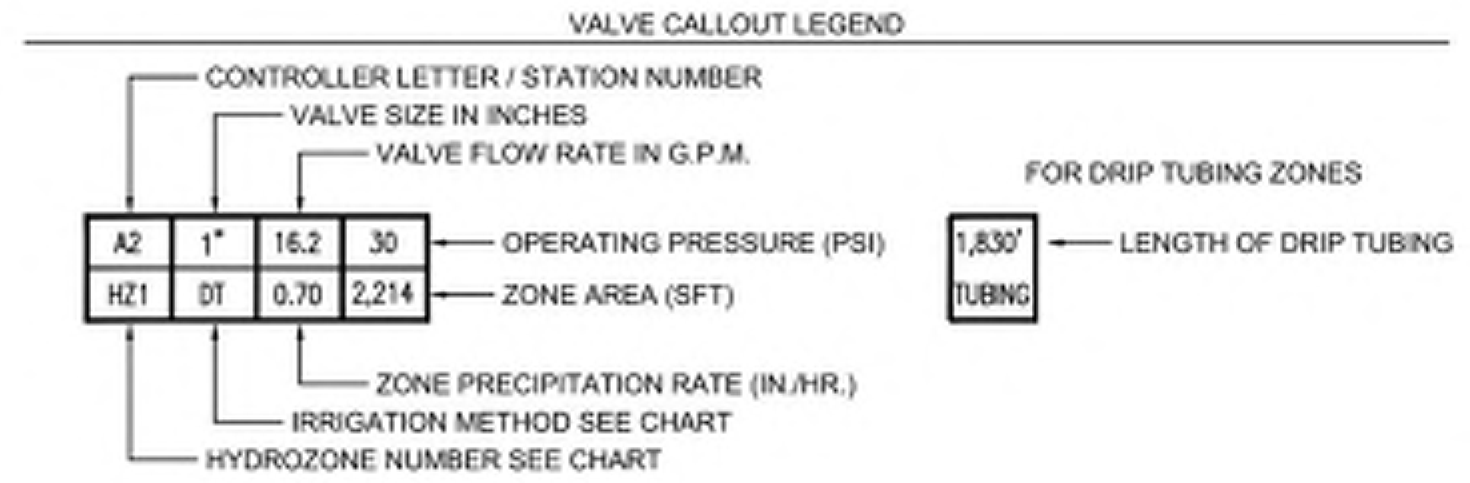
Plant / Irrig. Type	AKc	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Low Water Use Plantings	0.30	0.70	0.81	3.6	4.8	6.8	7.6	8.6	8.6	9.3	8.7	8.9	7.2	4.1	4.1	Min./Day/Zone
Drip Tubing	Number of Zones:		11	39.4	52.4	74.9	83.1	94.6	95.1	102.5	95.9	97.8	78.9	44.8	44.7	Total Min./Day
Moderate Water Use Plantings	0.40	0.70	0.81	4.8	6.3	9.1	10.1	11.5	11.5	12.4	11.6	11.9	9.6	5.4	5.4	Min./Day/Zone
Drip Tubing	Number of Zones:		1	4.8	6.3	9.1	10.1	11.5	11.5	12.4	11.6	11.9	9.6	5.4	5.4	Total Min./Day
Turf	0.70	1.82	0.75	3.5	4.6	6.6	7.3	8.3	8.4	9.0	8.5	8.6	6.9	3.9	3.9	Min./Day/Zone
Spray	Number of Zones:		2	6.9	9.2	13.2	14.6	16.7	16.8	18.1	16.9	17.2	13.9	7.9	7.9	Total Min./Day
Low Water Use Trees	0.30	1.00	0.81	2.5	3.3	4.8	5.3	6.0	6.0	6.5	6.1	6.2	5.0	2.9	2.8	Min./Day/Zone
Bubblers	Number of Zones:		4	10.0	13.3	19.1	21.2	24.1	24.2	26.1	24.4	24.9	20.1	11.4	11.4	Total Min./Day
Moderate Water Use Trees	0.40	1.00	0.81	3.3	4.4	6.4	7.1	8.0	8.1	8.7	8.1	8.3	6.7	3.8	3.8	Min./Day/Zone
Bubblers	Number of Zones:		2	6.7	8.9	12.7	14.1	16.1	16.1	17.4	16.3	16.6	13.4	7.6	7.6	Total Min./Day
EX Turf	0.70	0.70	0.75	9.0	12.0	17.2	19.0	21.7	21.8	23.5	22.0	22.4	18.1	10.3	10.2	Min./Day/Zone
Rotors	Number of Zones:		1	9.0	12.0	17.2	19.0	21.7	21.8	23.5	22.0	22.4	18.1	10.3	10.2	Total Min./Day
Total Number of Zones:			21	77	102	146	162	185	185	200	187	191	154	87	87	Total Min./Day
Total Controller Run Time in Hours:				1.28	1.70	2.44	2.70	3.08	3.09	3.33	3.12	3.18	2.56	1.46	1.45	Total Hrs./Day
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	

Note: These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specific exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRI.)	DETAIL
Q T H F	RAIN BIRD	RD-06-S-P30-F 6" POP-UP TURF HEAD WITH R-VAN24 (Q/T/H) / R-VAN24-360 NOZZLES	.60, .92, 1.20, 2.35	30	19 FT	0.70 IN./HR.	A
	RAIN BIRD	RD-06-S 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-50Q STREAM BUBBLER NOZZLE EACH SYMBOL REPRESENTS TWO (2) BUBBLER TO PROVIDE A TOTAL OF TWO (2) BUBBLERS PER TREE. PLACE THE BUBBLER HEADS SIX (6) INCHES FROM THE ROOT BALL OF THE TREE AND ON OPPOSITE SIDES OF TREE. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE.	.50 (1.0 TOTAL)	30	1 FT	1.00 IN./HR.	A,B
	HUNTER	I-20-06 6" POP-UP TURF ROTOR WITH MPR-30 NOZZLES (GREEN)	1.03, 1.34	25	29 FT	0.70 IN./HR.	C
	NETAFIM	SUB-SURFACE DRIP TUBING AS DESCRIBED BELOW: TLHCVXR5-CS-12 SUBSURFACE DRIP TUBING (BROWN EXTERIOR COLOR WITH A COPPER OXIDE STRIPE) WITH 0.53 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH A CONTINUOUS EXTERIOR CUPRON STRIPE, COPPER OXIDE INFUSED EMITTERS AND A PHYSICAL BARRIER TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP EMITTERS SHALL BE CONTINUOUS FLUSHING TYPE AND EQUIPPED WITH A CHECK VALVE AND ANTI-SIPHON FEATURE. DRIP TUBING SHALL BE INSTALLED ON GRADE BELOW THE MULCH LAYER AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE LINES SHOWN ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE SPACING REQUIREMENTS ABOVE AND IN DETAILS.	0.53 GPH / EMITTER	30	N/A	0.70 IN./HR.	D,E
NO SYMBOL	NETAFIM	CONNECTION BETWEEN HCVXR-CS DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING TL DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A TL050MA 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) TL050MA 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.					D,E
NO SYMBOL	NETAFIM	TL SERIES 17mm BARBED FITTINGS FOR CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). NO HEATING OF TUBING SHALL BE ALLOWED.					D,E
	AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					D,E
	GPH IRRIGATION/ RAIN BIRD	GDFN DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A RAIN BIRD 1812 12" POP-UP SPRINKLER BODY (NO PRS DEVICE). THE FLUSH NOZZLE SHALL BE CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.					D,F
NO SYMBOL	P.O.C.	2" WATER SUPPLY LINE. VERIFY SIZE, LOCATION AND PRESSURE IN FIELD.					N/A
	WILKINS	975XLS, 1 1/2" R/P BACK FLOW PREVENTION DEVICE WITH WYE STRAINER, INSTALL WITH BRASS NIPPLES, UNIONS AND FITTINGS, SIZED PER DEVICE					G
NO SYMBOL	V.I.T.	STRONG BOX SBBC-45SS "SMOOTH TOUCH" STAINLESS STEEL BACK FLOW DEVICE ENCLOSURE					G
NO SYMBOL	V.I.T.	PBB-XX "POLAR BEARIER" INSULATED BACK FLOW DEVICE COVER(SIZE AS REQUIRED TO FIT FINAL ASSEMBLY), FOR INFORMATION CONTACT V.I.T. PRODUCTS (800) 729-1314					G
	WILKINS	EXISTING BACKFLOW DEVICE, PROTECT IN PLACE.					N/A
	BUCKNER	3200-150 1 1/2" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE CONDUIT WITH FLOW SENSOR WIRE. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					H
	HUNTER	FCT-150, 1 1/2" FLOW SENSOR, WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX.					I
	LASCO	V20101N-SC 2" SLO-CLOSE SCH. 80 PVC, TRUE-UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					J
	RAIN BIRD	44LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX.					K
	RAIN BIRD	XXX-PESB-PRS-D PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1" AND 1 1/2"SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD AT THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE (MEASURE PSI AT HEAD). INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					L
	RAIN BIRD	100-PESB PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" SIZE). INSTALL A RAIN BIRD LCRBY-100D DISC FILTER AND A SENNINGER 1" PMR-40-MF PRESSURE REGULATOR DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). INSTALL THE DRCV ASSEMBLY INSIDE A JUMBO RECTANGULAR VALVE BOX.					M
	EXISTING	EXISTING IRRIGATION CONTROLLER, PROTECT IN PLACE.					N/A
	HUNTER	I2C-800-PL 8 STATION ICC2 CONTROLLER WITH FIVE (5) ICM-800 8-STATION EXPANSION MODULES TO CREATE AN 48 STATION CONTROLLER. INSTALL CONTROLLER INSIDE A STAINLESS STEEL ENCLOSURE, SEE BELOW FOR TYPE.					N
NO SYMBOL	V.I.T.	SB-16SS STRONGBOX STAINLESS STEEL TOP-ENTRY CONTROLLER ENCLOSURE WITH CSA SUB-ASSEMBLY, PT-TRAY16-HUNICC2 ADAPTER, RGVRSS AND QP-16 "QUICK PAD".					N
NO SYMBOL	PAIGE ELECTRIC	THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROUND ROD, A #182005 CAST BRONZE ROD CLAMP AND THE REQUIRED LENGTH OF #6AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL INSIDE A 10" ROUND VALVE BOX.					O
	HUNTER	RAIN-CLICK WIRED RAIN SENSOR, MOUNT IN RGVRSS ENCLOSURE ON THE SIDE OF THE CONTROLLER ENCLOSURE, WIRE TO THE CONTROLLER.					N
	N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
	AS APPROVED	PVC PIPE 3/4" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					P
	AS APPROVED	PVC PIPE 2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					P,R
	EXISTING	EXISTING MAINLINE, PROTECT IN PLACE					N/A
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2.5 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 36" BELOW FINISHED GRADE.					Q
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
NO SYMBOL	WELD-ON	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE P-68 LOW VOC "PURPLE PRIMER". SOLVENT CEMENT SHALL BE 705 LOW VOC, GRAY COLORED "MEDIUM BODIED" CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD MAINLINES ABOVE 2" IN SIZE SHALL HAVE CONCRETE THRUST BLOCKING INSTALLED AT ALL DIRECTIONAL CHANGES INCLUDING ELBOWS (45° AND 90°) AND TEES. MAINLINE PIPES UNDER 2" SIZE AND ALL LATERAL LINES DO NOT REQUIRE THRUST BLOCKING.					R
NO SYMBOL	AS APPROVED	11/4" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES OR CENTRAL CONTROL COMMUNICATION CABLE, PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					N/A
NO SYMBOL	PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES.					P,Q,S
NO SYMBOL	GPH IRRIGATION	GDBRY6 DIRECT BURIAL, 100% SILICONE GEL, WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					S
NO SYMBOL	NDS (K.B.I.)	KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
NO SYMBOL	NDS (K.B.I.)	KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
NO SYMBOL	CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND FLUSH VALES AND AIR RELIEF VALVES USE MODEL 708, 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECTANGULAR. SHALL BE MODEL 1419, 12" JUMBO RECT. SHALL BE MODEL 1220, SUPER JUMBO SHALL BE MODEL 1324, AND SUPER JUMBO XL SHALL BE MODEL 1730. VALVE BOXES SHALL HAVE GREEN HDPE BODY AND GREEN LIDS IN TURF, GREEN LIDS IN SHRUB BEDS, AND TAN LIDS IN ROCK MULCH. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					T

VALVE CALLOUT LEGEND



HYDROZONE DESCRIPTION CHART			
NUMBER	DESCRIPTION OF THE HYDROZONE	WUCOLS	PLANT FACTOR
HZ 1	LOW WATER USE PLANTINGS	L	0.20
HZ 2	MODERATE WATER USE PLANTINGS	M	0.40
HZ 3	HIGH WATER USE PLANTINGS	H	0.70
HZ 4	LOW WATER USE TREES	L	0.30
HZ 5	MODERATE WATER USE TREES	M	0.40

IRRIGATION METHOD DESCRIPTION CHART			
LETTERS	DESCRIPTION OF THE IRRIGATION	TYPE	IR. EFFICIENCY
S	SPRAY HEADS	SPRAY	0.75
R	ROTOR HEADS	SPRAY	0.75
DT	DRIP TUBING	DRIP	0.81
TB	TREE BUBBLERS	DRIP	0.81

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

811 — sweeney + associates, IRRIGATION DESIGN AND CONSULTING

IDENTIFICATION STAMP — DIV. OF THE STATE ARCHITECT — APP: 04-121018 INC: — REVIEWED FOR SS ☑ FLS ☑ ACS ☑ — DATE: 10/25/2022

DAVY ARCHITECTURE — DISABLED VETERAN • EMPLOYEE OWNED — 1053 TENTH AVENUE, SAN DIEGO, CA 92101 — PHONE 619.238.3811 — www.davyarchitecture.com

SDVOSB

LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA — 10/31/2023

CONNECTEDstudio landscape architecture

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

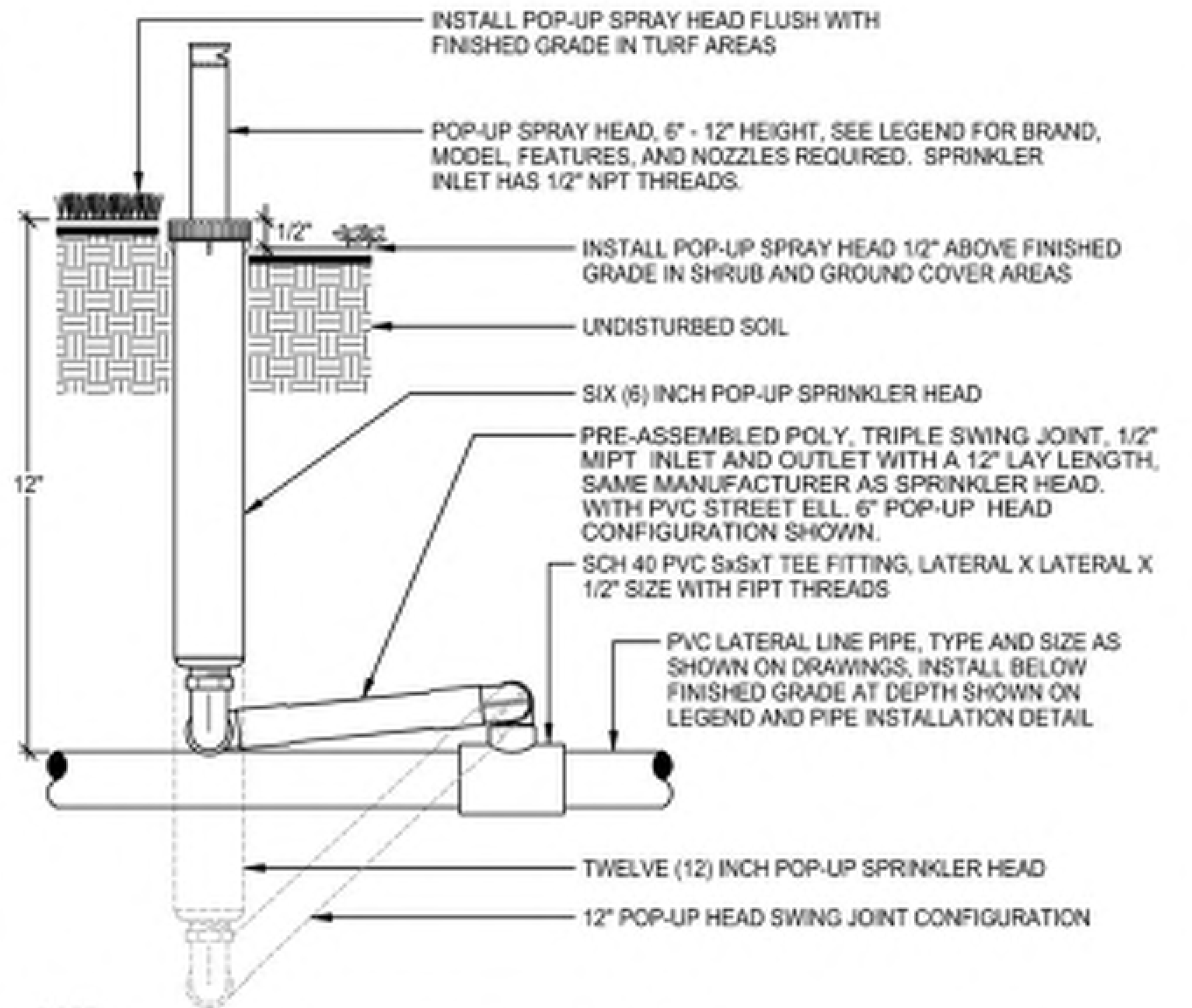
MARK	DATE	DESCRIPTION
	04.29.22	DSA SUBMITTAL
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: [illegible]
CHECKED BY: [illegible]

IRRIGATION LEGEND AND NOTES

L2.02

2/18/2022 8:36:11 AM

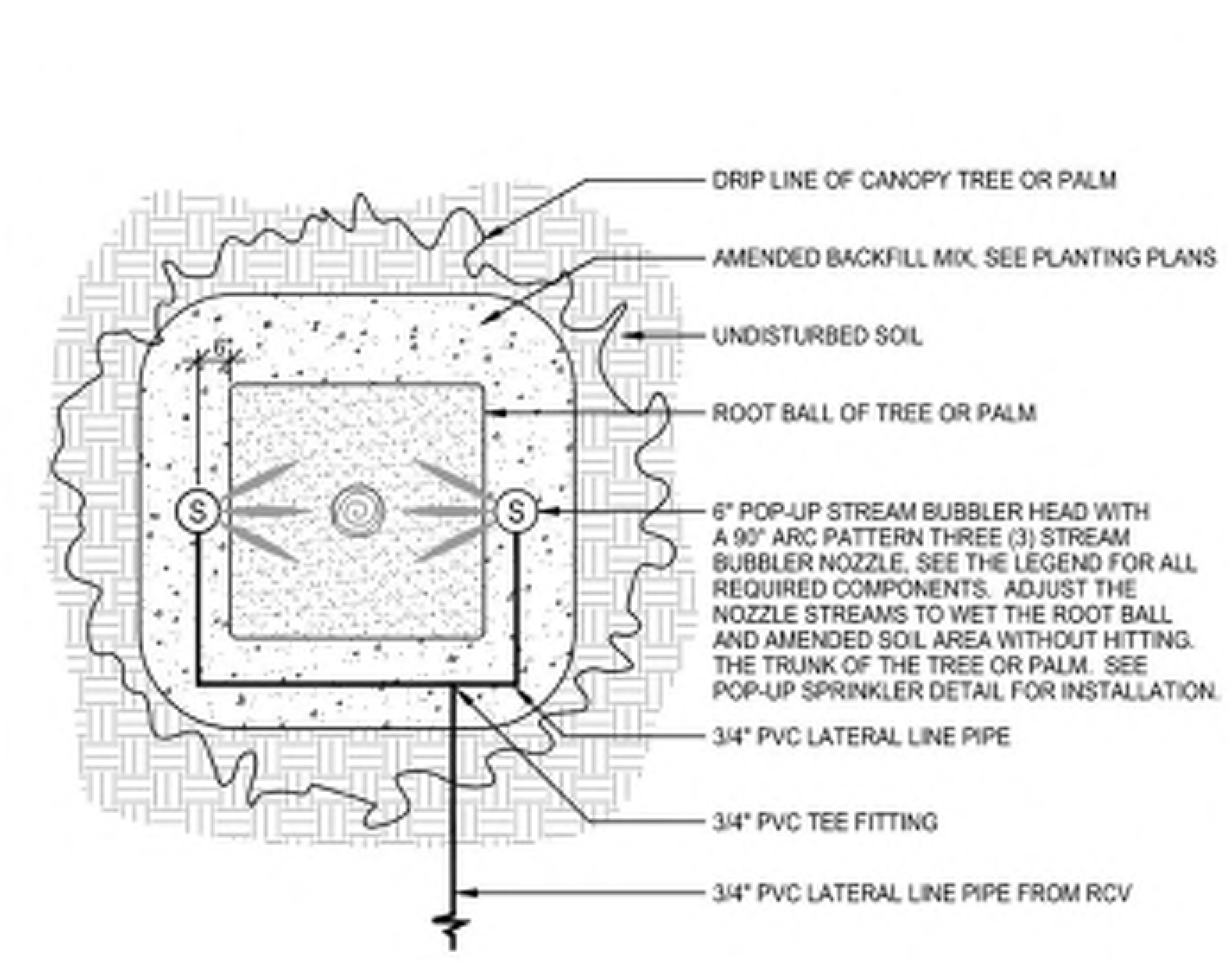


NOTE:
INSTALL SPRAY HEADS 4" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRAY HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRAY HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.

INSTALL SPRAY HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

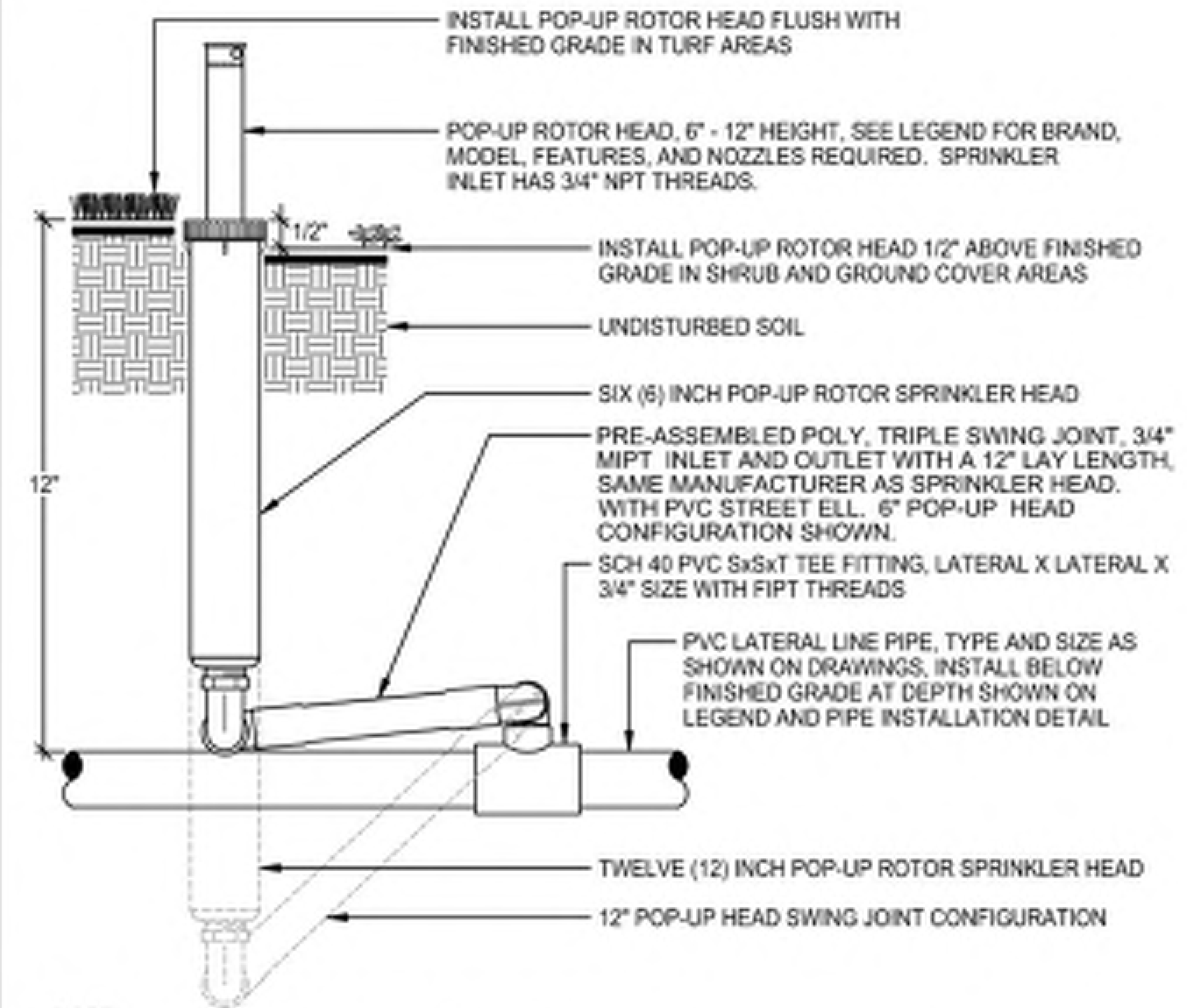
(A) POP-UP SPRINKLER HEAD



NOTE:
POSITION MSBN-50Q STREAM BUBBLER HEADS 6" FROM THE ROOT BALL.
POSITION MSBN-25Q STREAM BUBBLER HEADS 1" FROM THE ROOT BALL.

PLAN VIEW - N.T.S.

(B) TREE BUBBLER LAYOUT

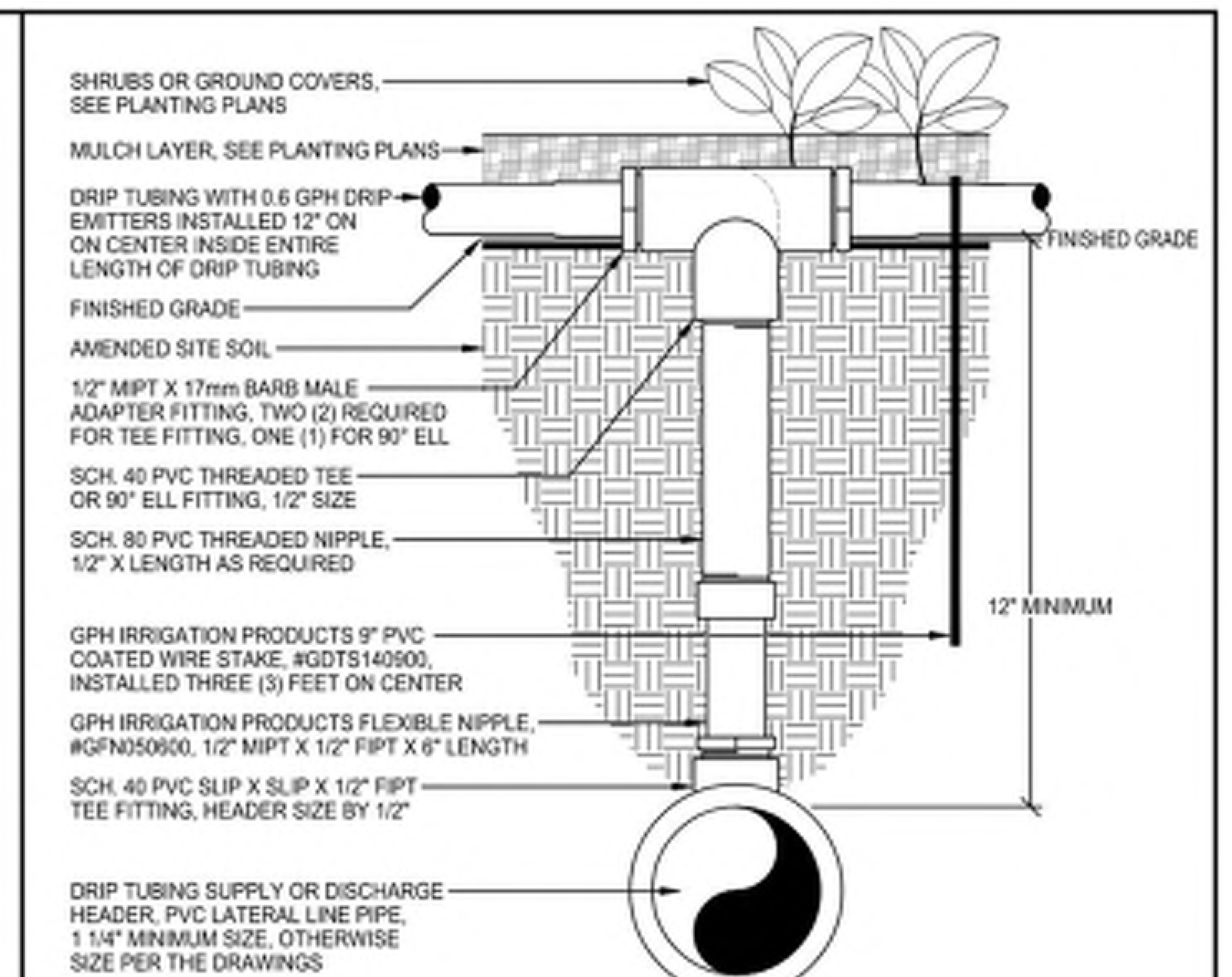


NOTE:
INSTALL ROTOR HEADS 4" FROM PAVING EDGE IN TURF AREAS.
INSTALL ROTOR HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL ROTOR HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.

INSTALL ROTOR HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

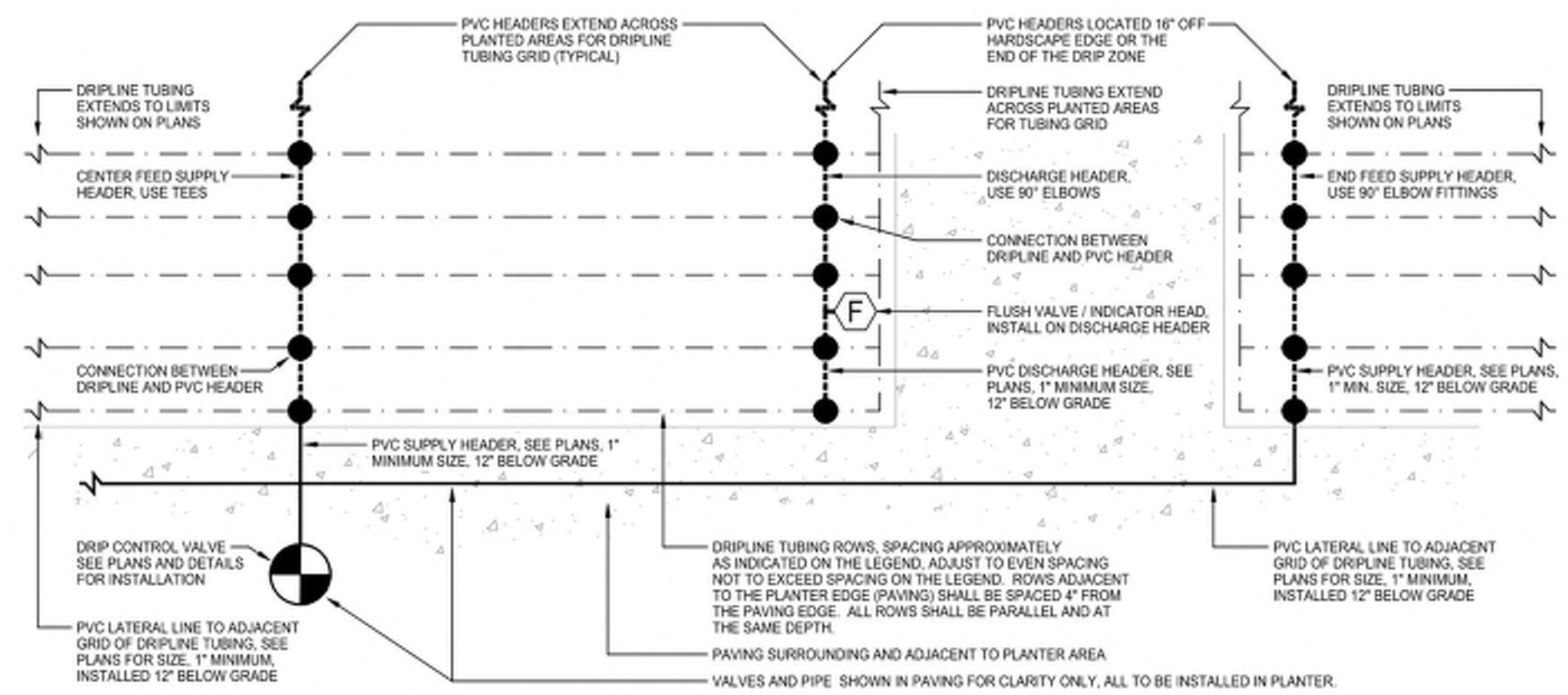
(C) POP-UP ROTOR HEAD



NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS.
FOR CONNECTIONS AT END RUNS OF TUBING, USE A 90° ELL FITTING AND ONE ADAPTER FITTING FOR CONNECTION.
FOR CONNECTIONS IN THE MIDDLE OF RUNS OF TUBING, USE A TEE FITTING AND TWO ADAPTER FITTINGS FOR THE CONNECTION.

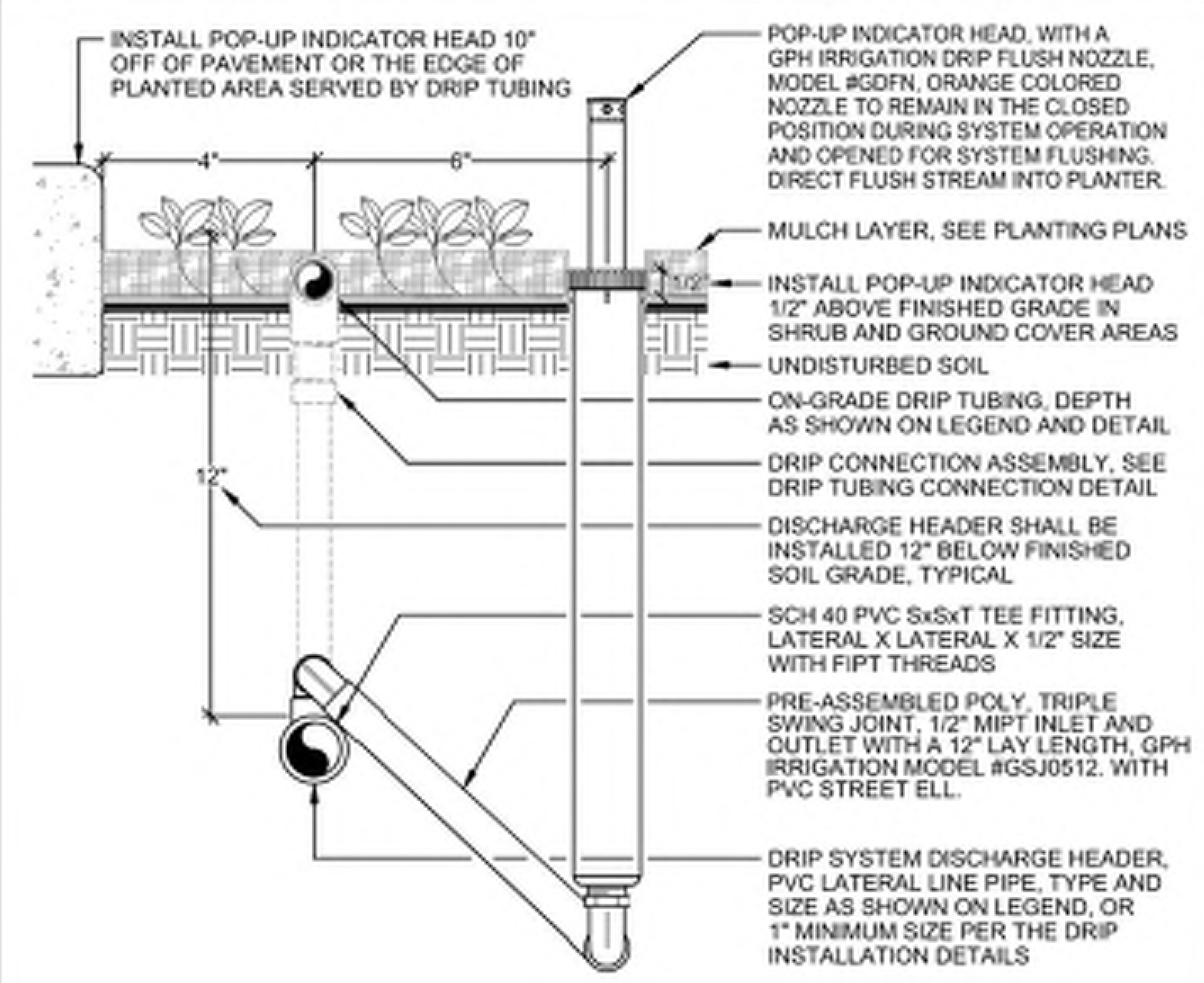
SECTION VIEW - N.T.S.

(D) ON GRADE DRIP CONNECTION



PLAN VIEW - N.T.S.

(E) DRIP TUBING LAYOUT

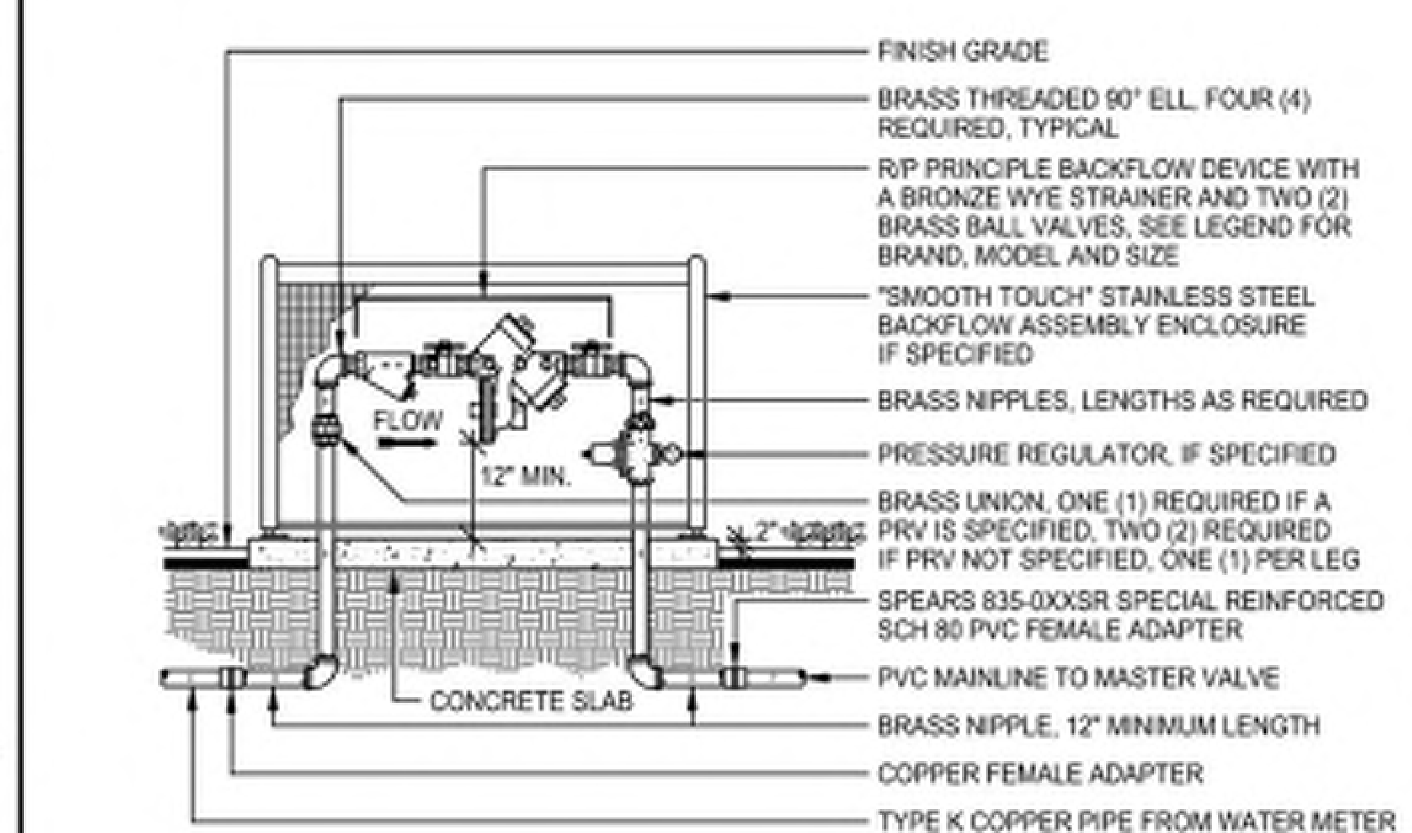


NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.

INSTALL NOZZLE ON INDICATOR HEAD AND ADJUST TO FULLY CLOSED

SECTION VIEW - N.T.S.

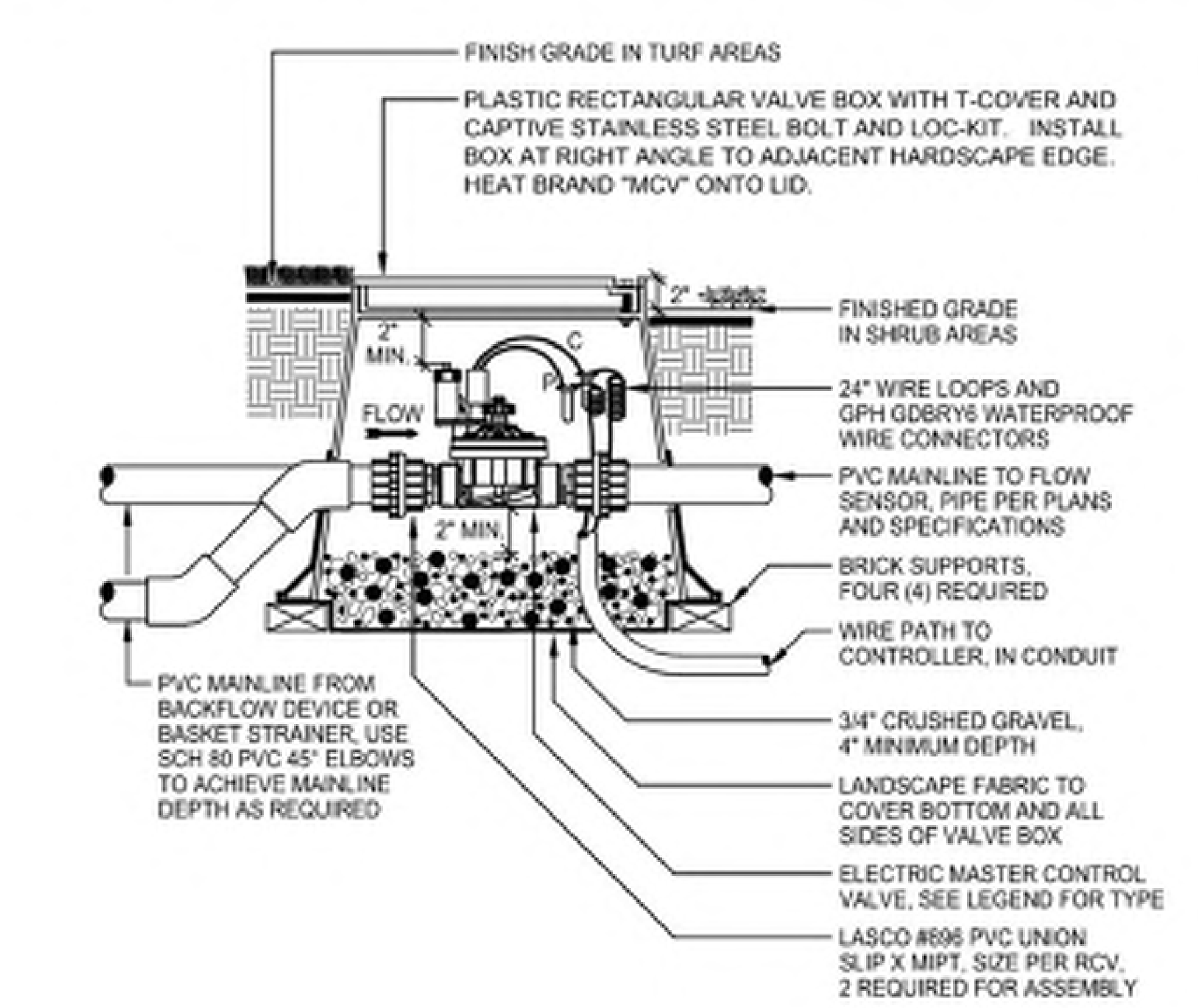
(F) ON GRADE FLUSH VALVE/INDICATOR HEAD



NOTE:
INSTALL THE PRESSURE REGULATOR ONLY IF IT IS SPECIFIED IN THE LEGEND.
BACKFLOW DEVICE OUTLET SHALL BE INSTALLED A MINIMUM OF 12" ABOVE FINISHED GRADE.
ASSEMBLY PIPING AND FITTINGS SHALL BE SIZED EQUAL TO THE SIZE OF THE BACKFLOW PREVENTION DEVICE
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
CONCRETE SLAB SHALL BE A MINIMUM OF 4" THICK, 18" WIDE AND EXTEND AT LEAST 8" PAST THE BACKFLOW ASSEMBLY PIPING, OR BE THE SIZE REQUIRED BY THE ENCLOSURE MANUFACTURER.
NO THREADED CONNECTIONS SHALL BE MADE UNDER THE CONCRETE SLAB.

SECTION VIEW - N.T.S.

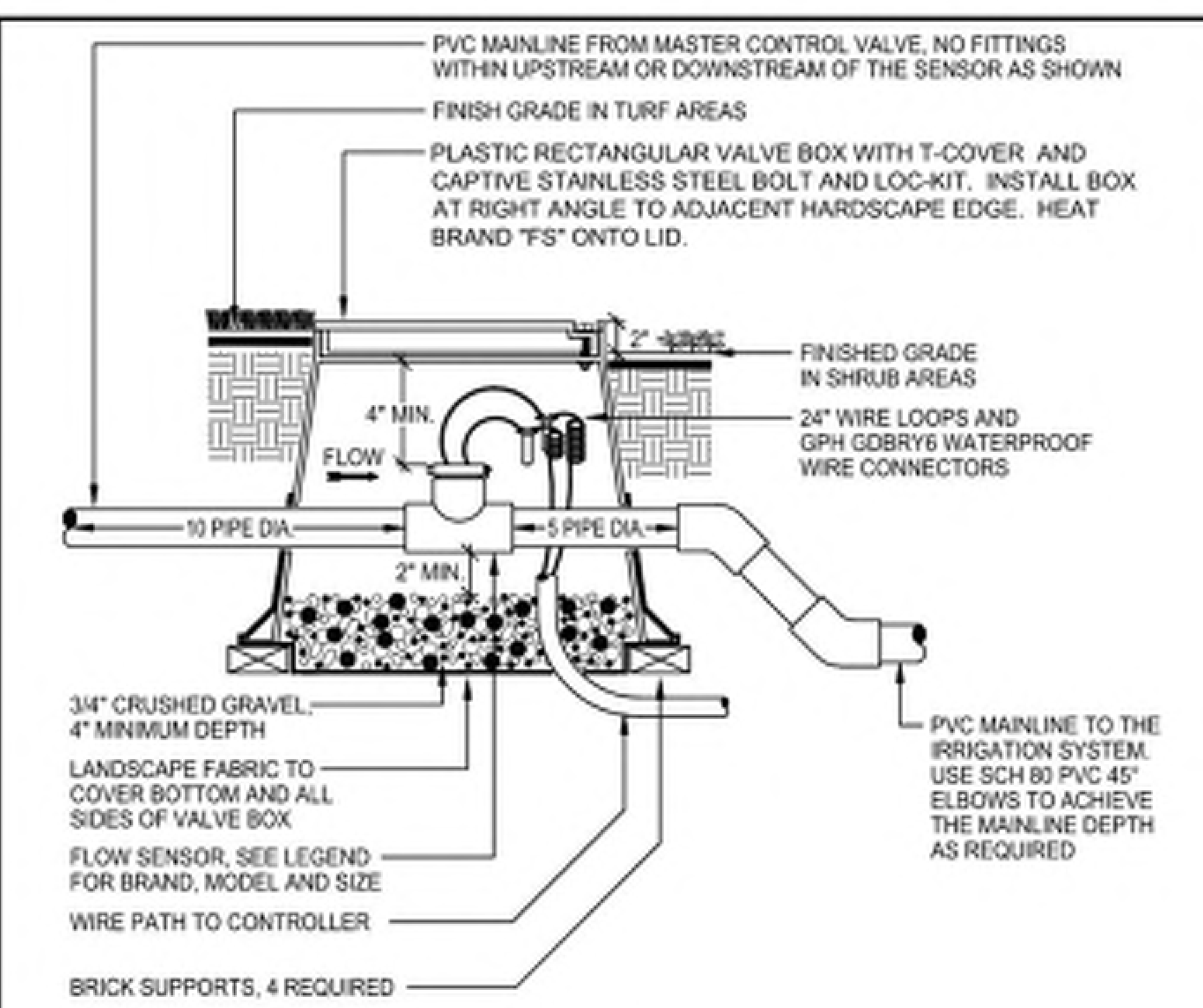
(G) BACKFLOW DEVICE



NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

SECTION VIEW - N.T.S.

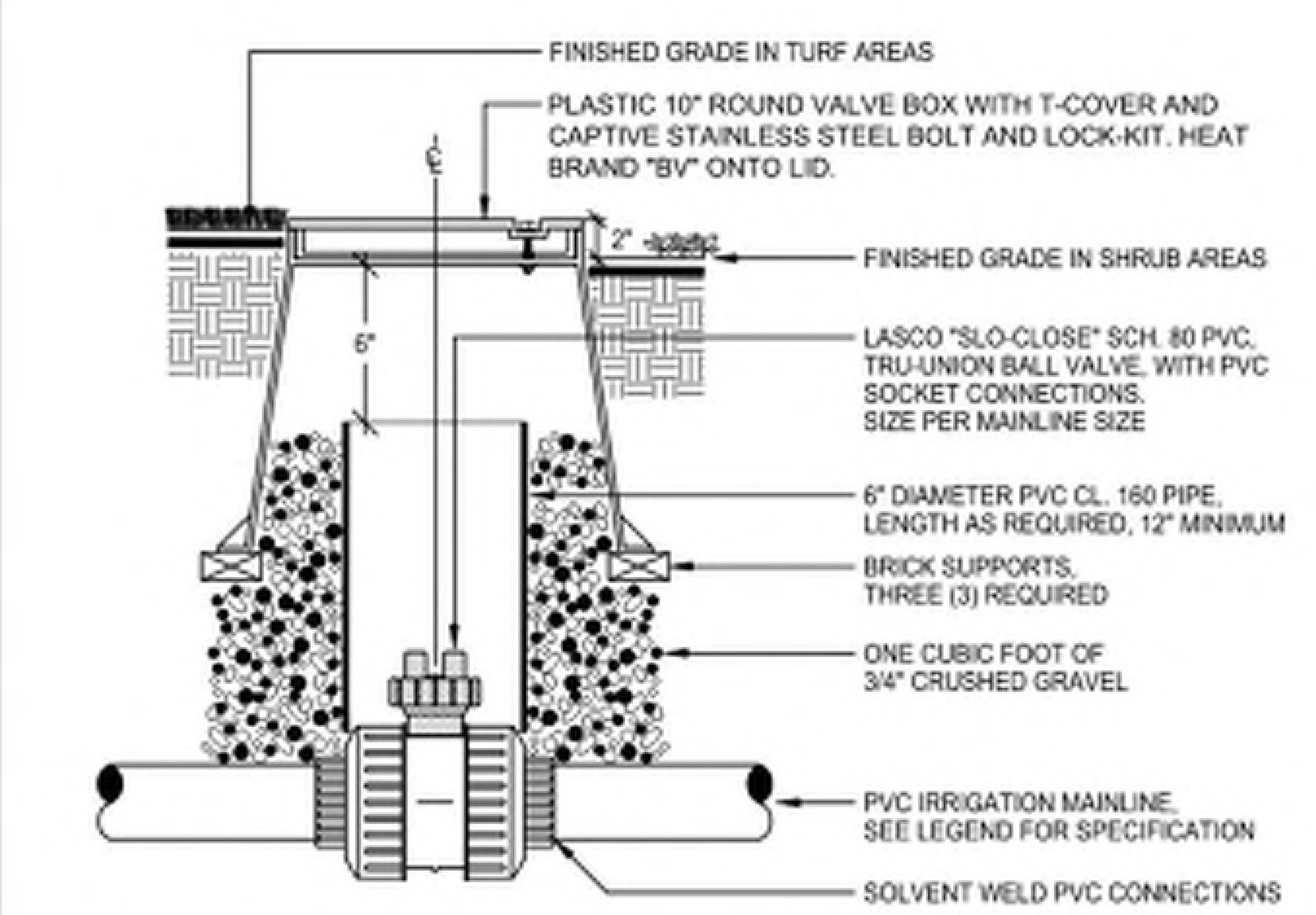
(H) MASTER CONTROL VALVE



NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

SECTION VIEW - N.T.S.

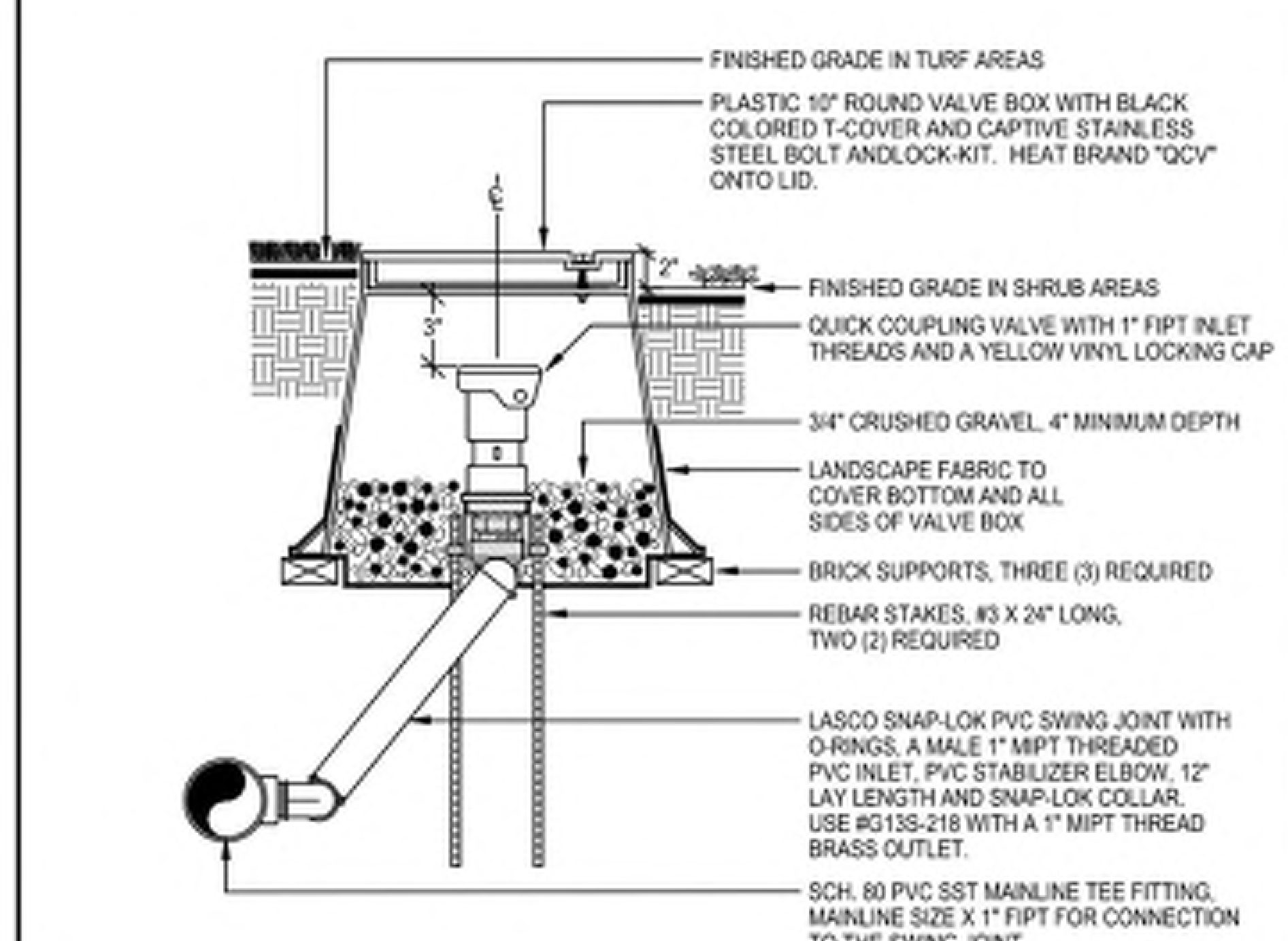
(I) FLOW SENSOR



NOTE:
PROVIDE ONE (1) 30" LONG STEEL "VALVE KEY" FOR EACH TEN (10) BALL VALVES INSTALLED ON THE PROJECT.

SECTION VIEW - N.T.S.

(J) BALL VALVE



NOTE:
WHEN QCV IS LOCATED ON A MANIFOLD, USE A SCH. 80 SxT 90° ELBOW IN PLACE OF THE TEE FITTING. SIZE THE ELBOW AS MANIFOLD MAINLINE SIZE X 1" FIPT.

WHEN USING A 3/4" QUICK COUPLER VALVE, USE A LASCO G13T-212 SWING JOINT WITH A 3/4" BRASS OUTLET FOR CONNECTION TO THE QCV INLET. ALL OTHER PARTS OF SWING JOINT SHALL REMAIN 1" SIZE.

USE A NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

SECTION VIEW - N.T.S.

(K) QUICK COUPLER VALVE

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.22	DSA SUBMITTAL
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: EB
CHECKED BY: DB

IRRIGATION DETAILS

L2.03

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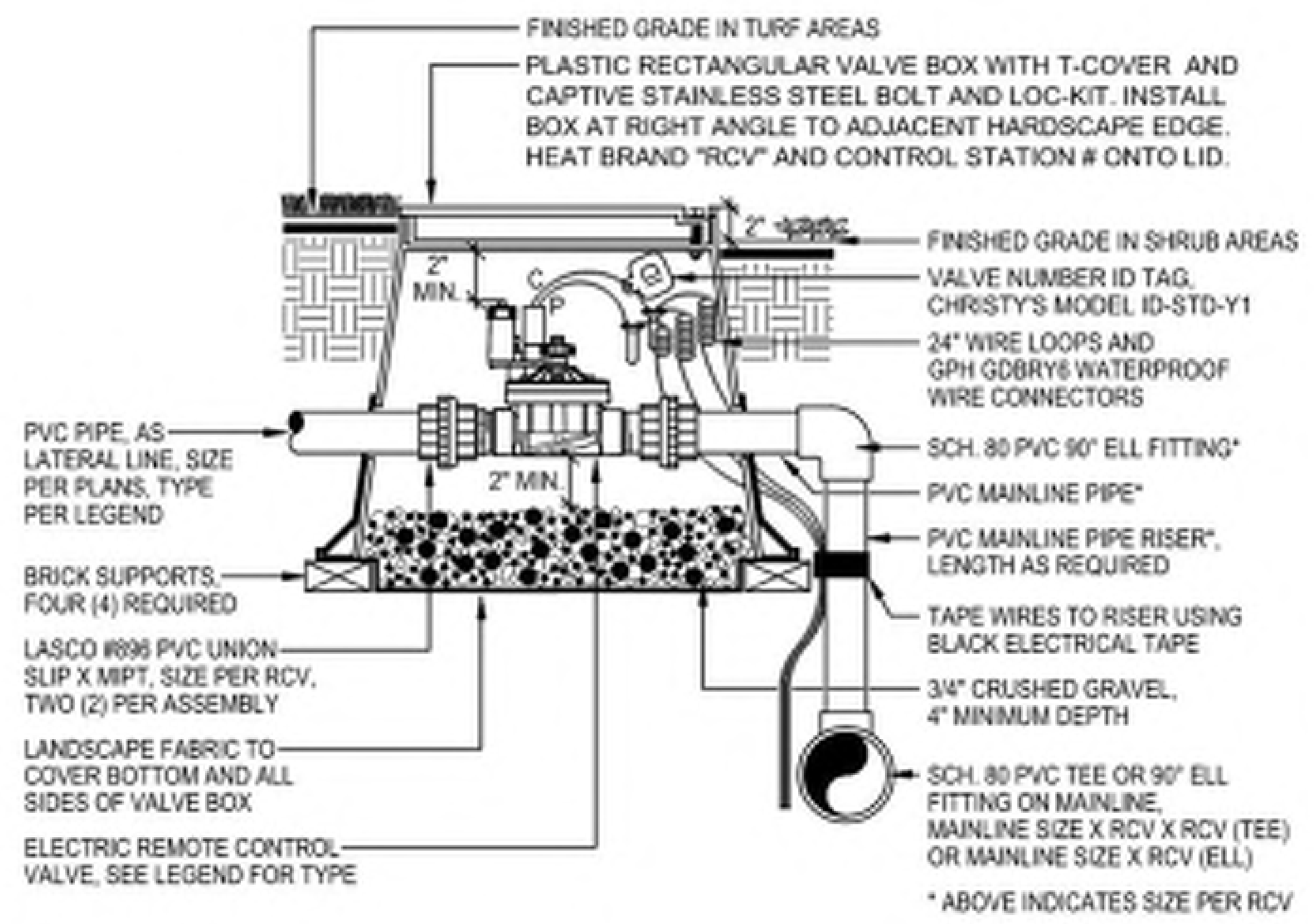
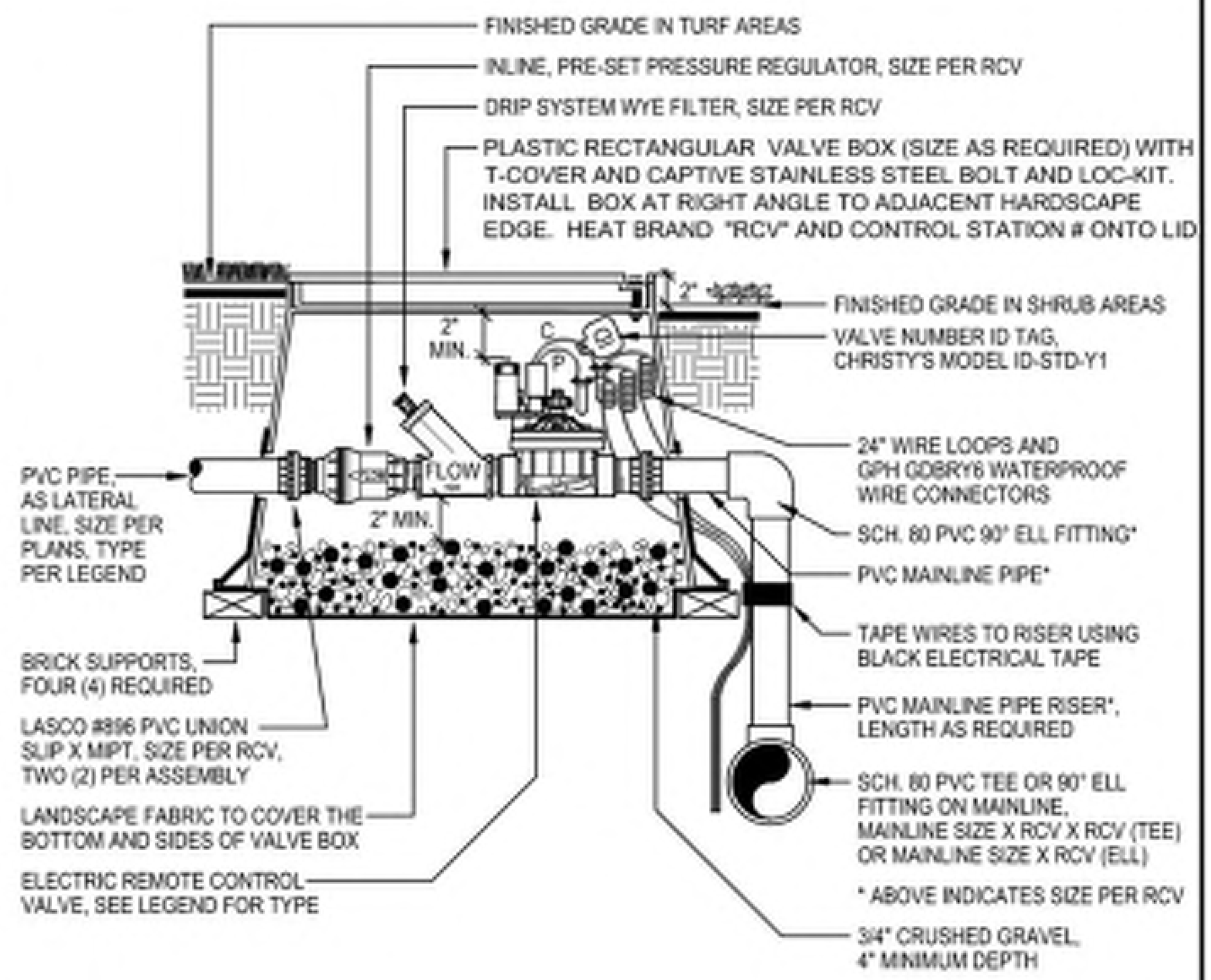


NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

SECTION VIEW - N.T.S.

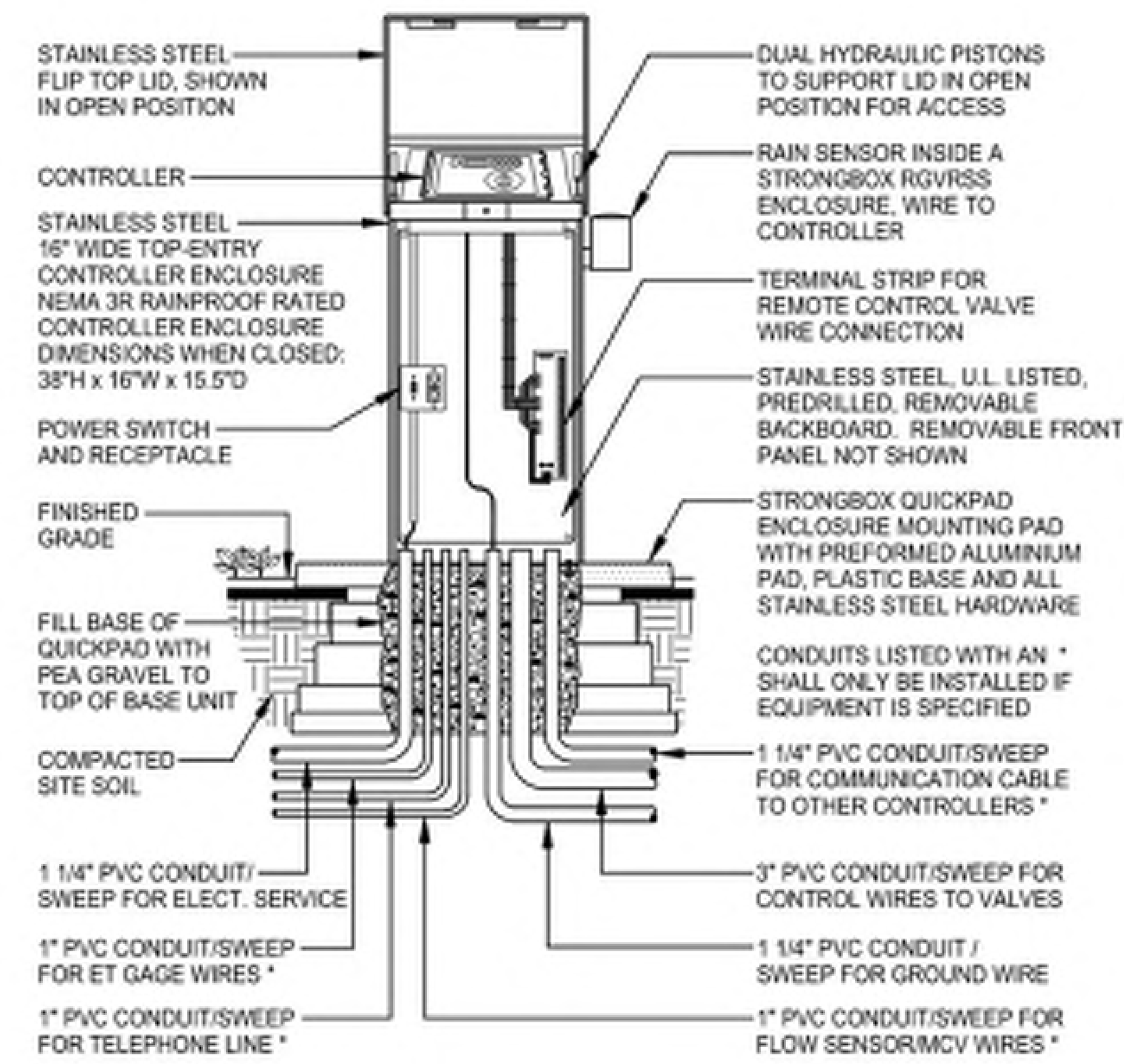
(L) REMOTE CONTROL VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

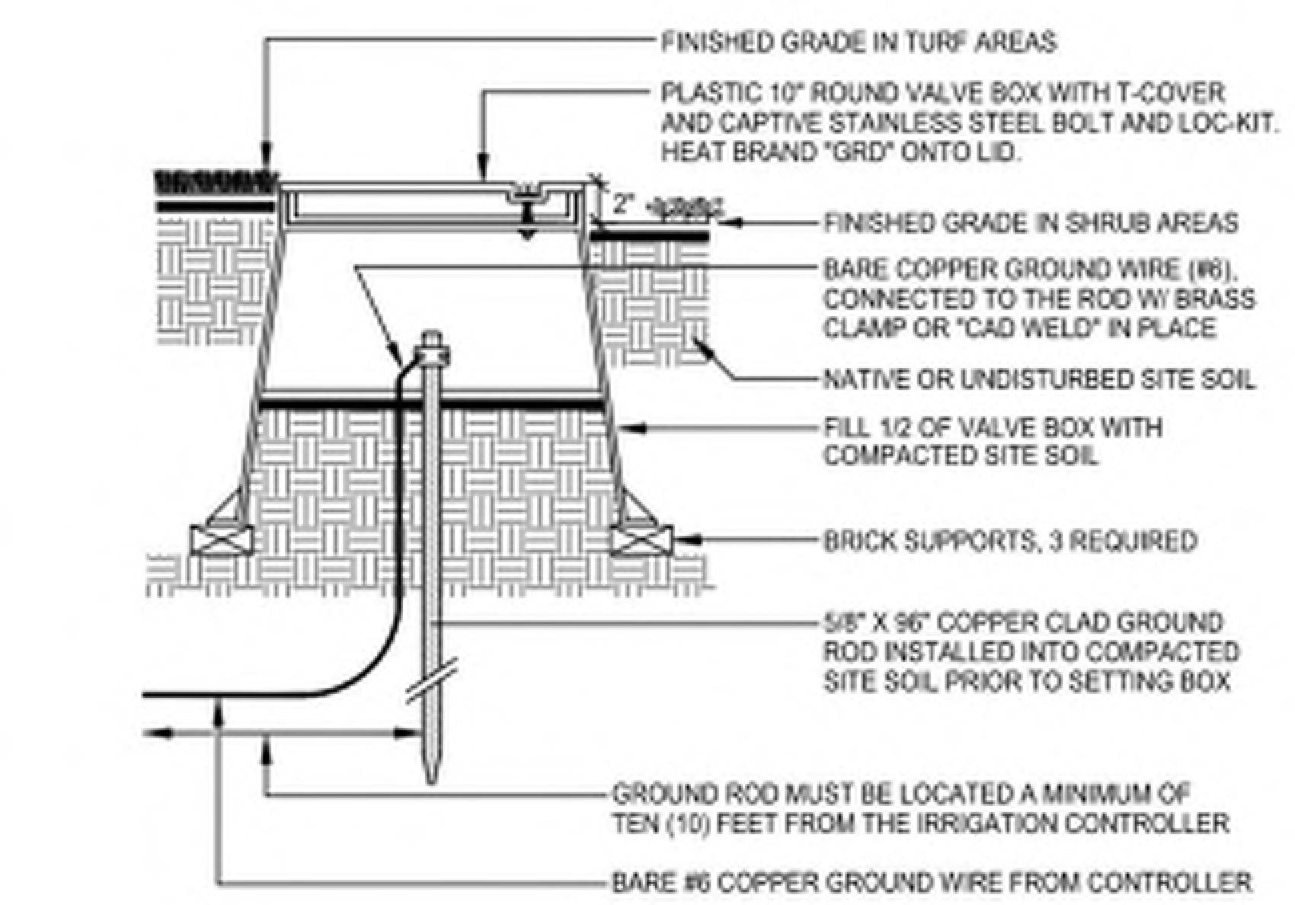
SECTION VIEW - N.T.S.

(M) DRIP REMOTE CONTROL VALVE



SECTION VIEW - N.T.S.

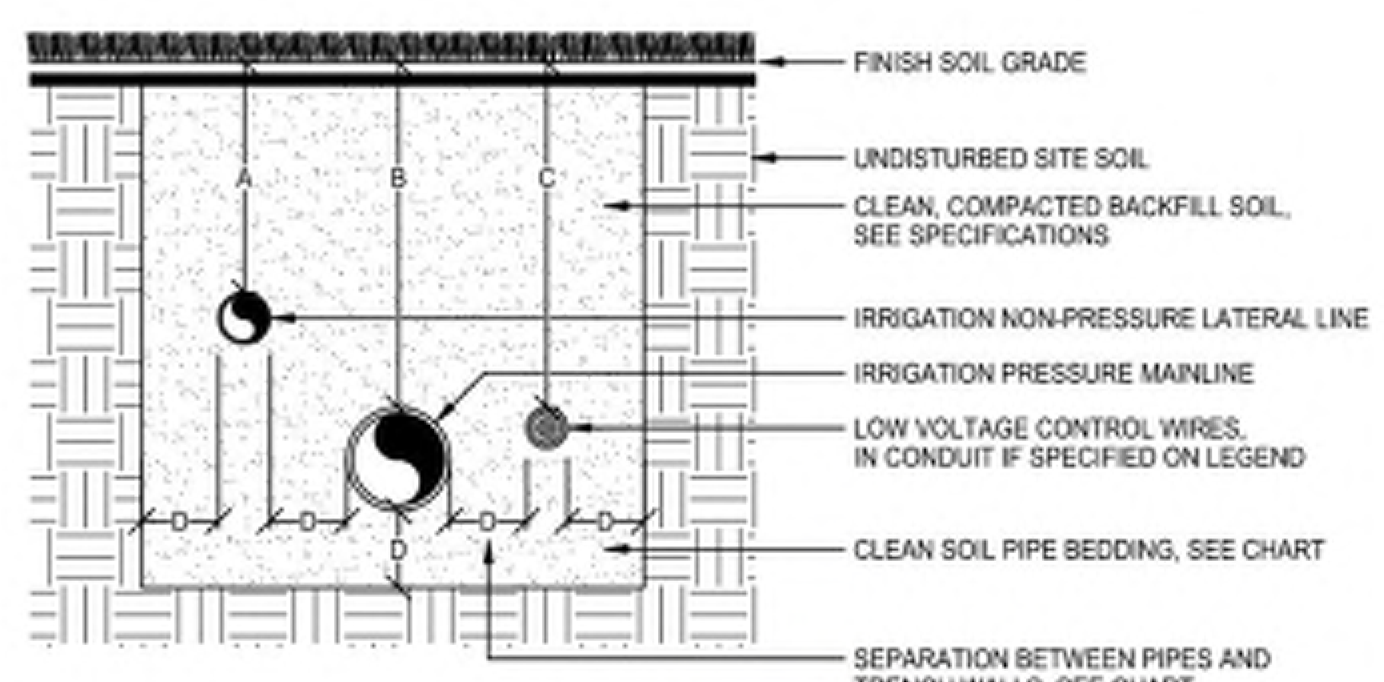
(N) CONTROLLER ASSEMBLY



NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.
EACH CONTROLLER SHALL HAVE A MINIMUM OF ONE (1) GROUND ROD INSTALLED.
GROUND ROD SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET AWAY FROM THE IRRIGATION CONTROLLER OR ANY CONTROL WIRE PATH.

SECTION VIEW - N.T.S.

(O) GROUNDING ROD



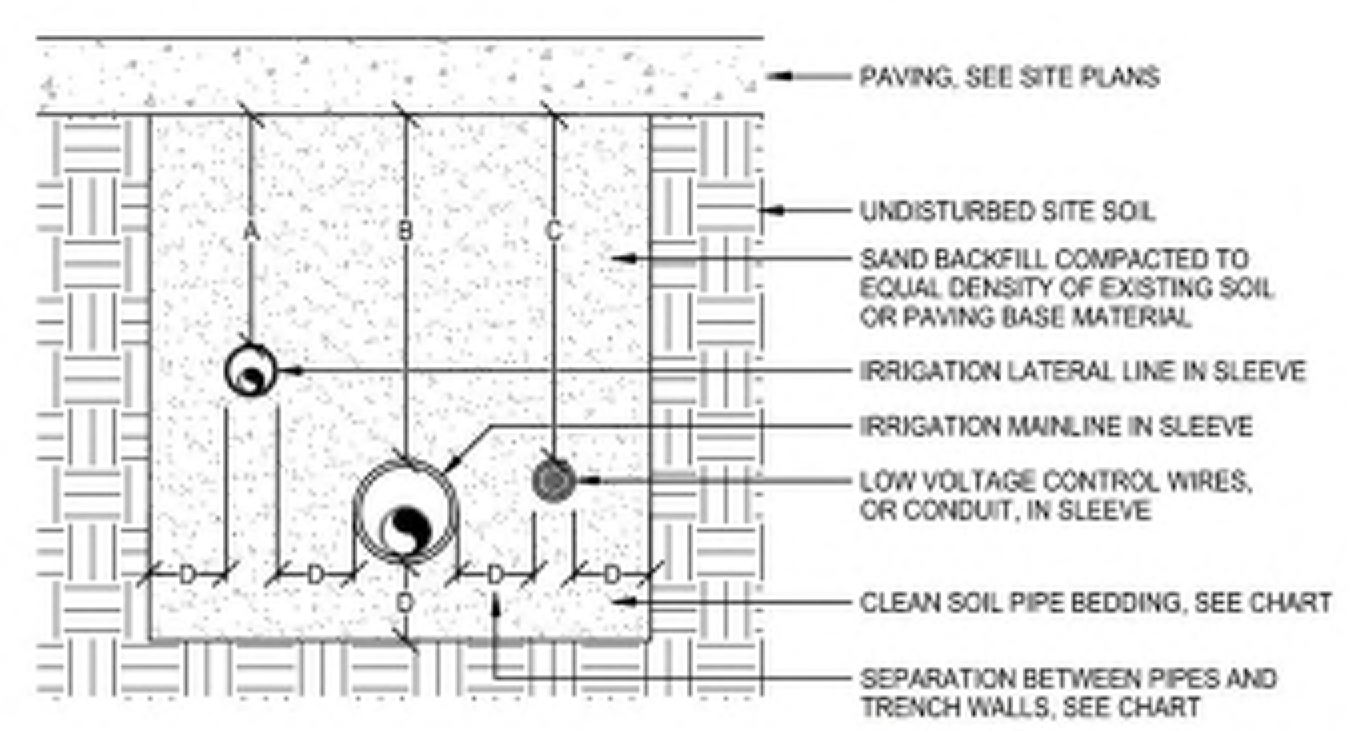
PIPE SIZES	A	B	C	D
SIZES 3/4" TO 2 1/2"	12"	18"	18"	4"
SIZES 3" AND 4"	18"	24"	24"	4"
SIZES 6" AND LARGER	X	30"	24"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

SECTION VIEW - N.T.S.

(P) PIPE INSTALLATION

NOTE:
ALL PATCHES TO PEDESTRIAN SURFACES SHALL COMPLY WITH 11B-302.1 AND 11B-303, TYPICAL

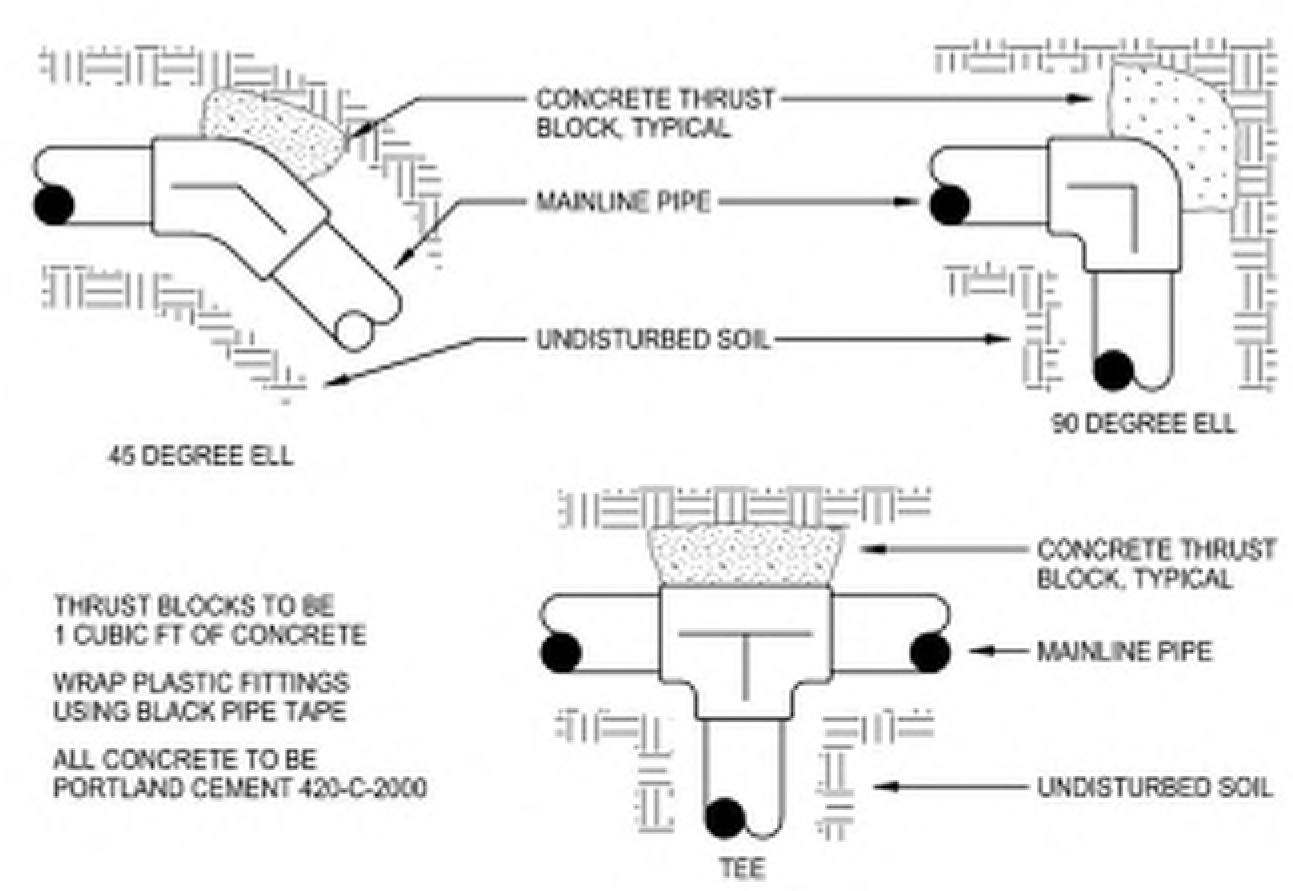


PIPE SIZES	A	B	C	D
UNDER PEDESTRIAN PAVING	12"	24"	24"	4"
UNDER VEHICULAR PAVING	24"	36"	36"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.
SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.
SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

SECTION VIEW - N.T.S.

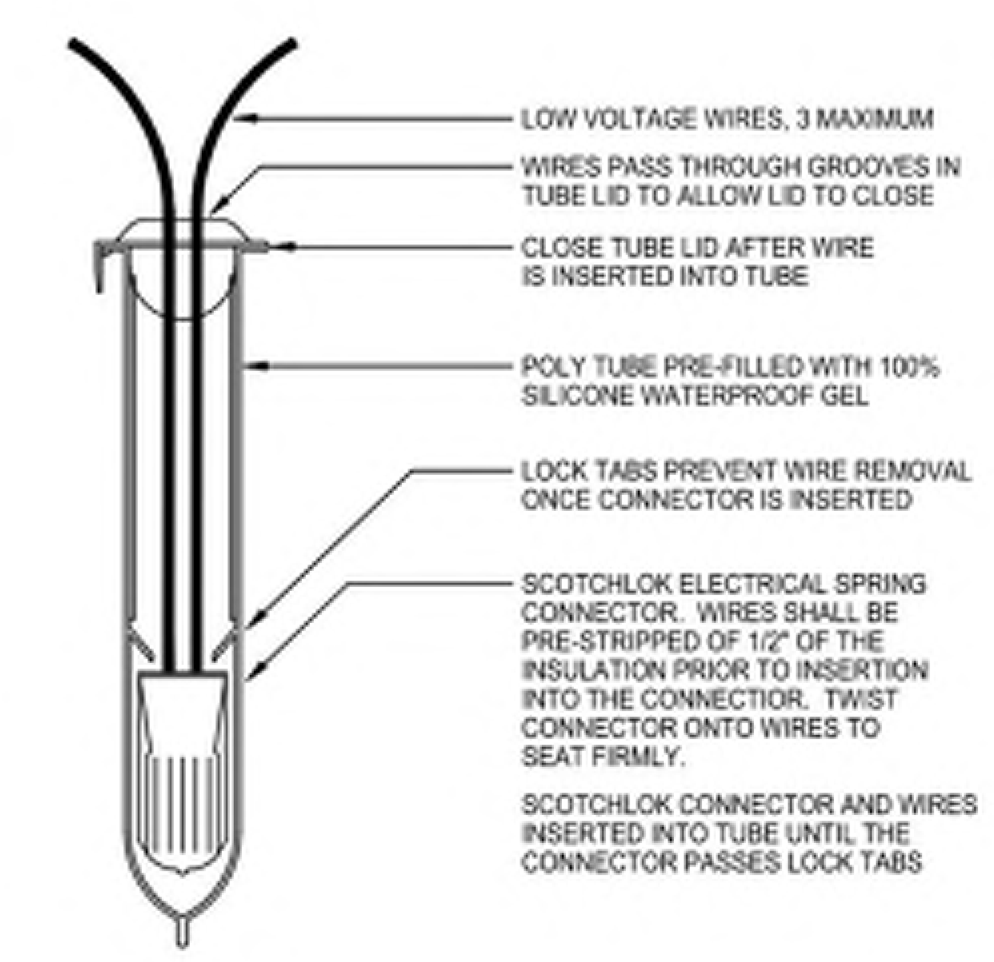
(Q) SLEEVE INSTALLATION



THRUST BLOCKS TO BE 1 CUBIC FT OF CONCRETE
WRAP PLASTIC FITTINGS USING BLACK PIPE TAPE
ALL CONCRETE TO BE PORTLAND CEMENT 420-C-2000

PLAN VIEW - N.T.S.

(R) THRUST BLOCKS



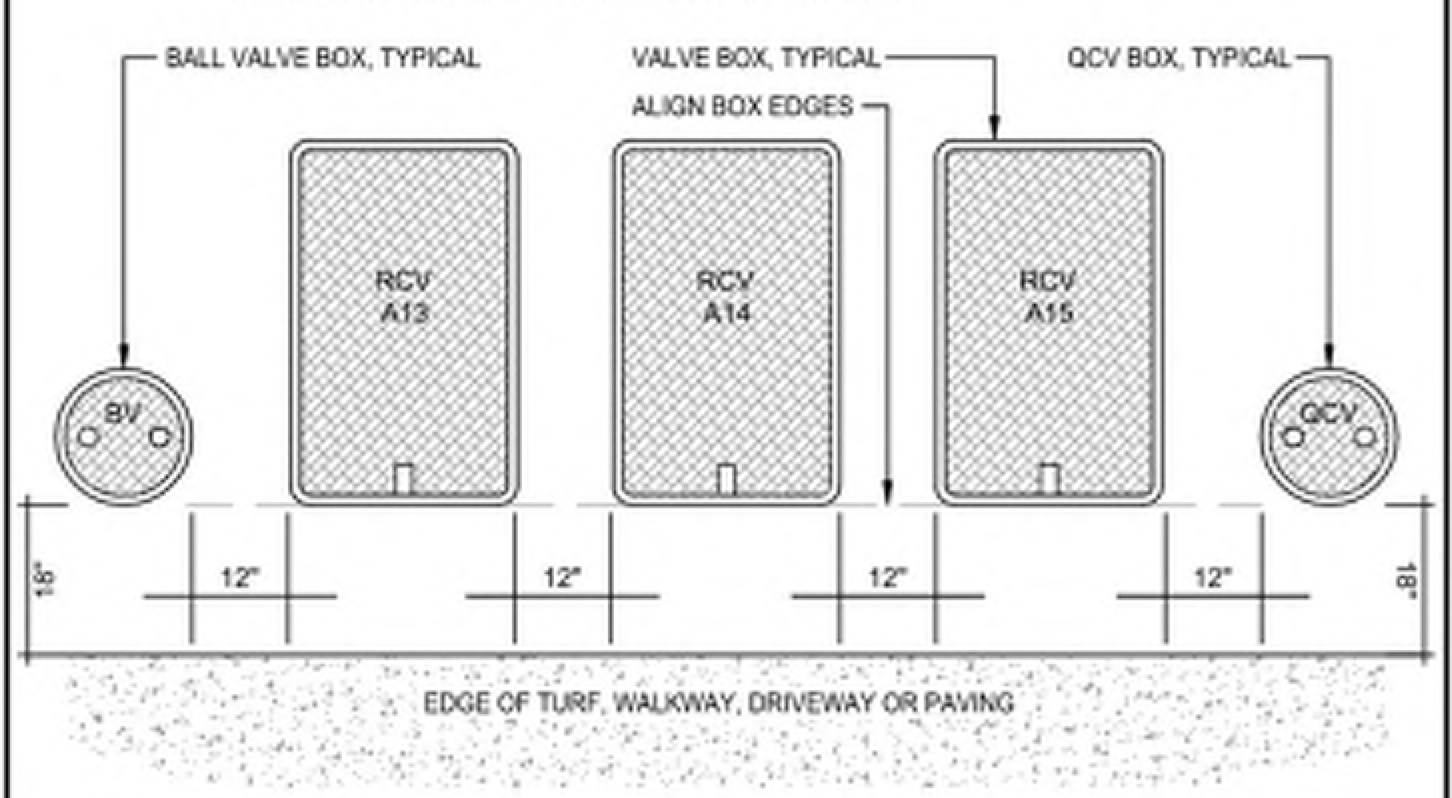
NOTE:
WIRE CONNECTOR SHALL BE A GPH IRRIGATION GDBRY6 DIRECT BURY SPLICE KIT.
KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A 100% SILICONE WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.

SECTION VIEW - N.T.S.

(S) WIRE CONNECTION

NOTE:

1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE OR DRIP ASSEMBLY TO FACILITATE SERVICING OF THE VALVE OR EQUIPMENT.
2. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER OR SHRUB AREAS WHERE EVER POSSIBLE. VALVES IN TURF AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO ADJACENT PAVING EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT THE COLLAPSE AND / OR DEFORMATION OF VALVE BOXES.
5. BOX LOCATIONS SHALL BE STAKED IN THE FIELD PRIOR TO MAINLINE INSTALLATION FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.



NOTE:
VALVE BOXES SHALL BE INSTALLED IN SHRUB AND GROUND COVER AREAS. NO VALVES SHALL BE INSTALLED IN TURF AREAS WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.

PLAN VIEW - N.T.S.

(T) VALVE BOX LAYOUT

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

sweeney + associates
IRRIGATION DESIGN AND CONSULTING

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LICENSED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA
10/31/2023
09/19/2022

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Mountain Empire Unified School District

Project No.2017

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3305 Buckman Springs Rd, Pine Valley, CA 91962

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	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: CB
CHECKED BY: DB

IRRIGATION DETAILS

L2.04

2/18/2022 8:36:11 AM

KEYNOTES

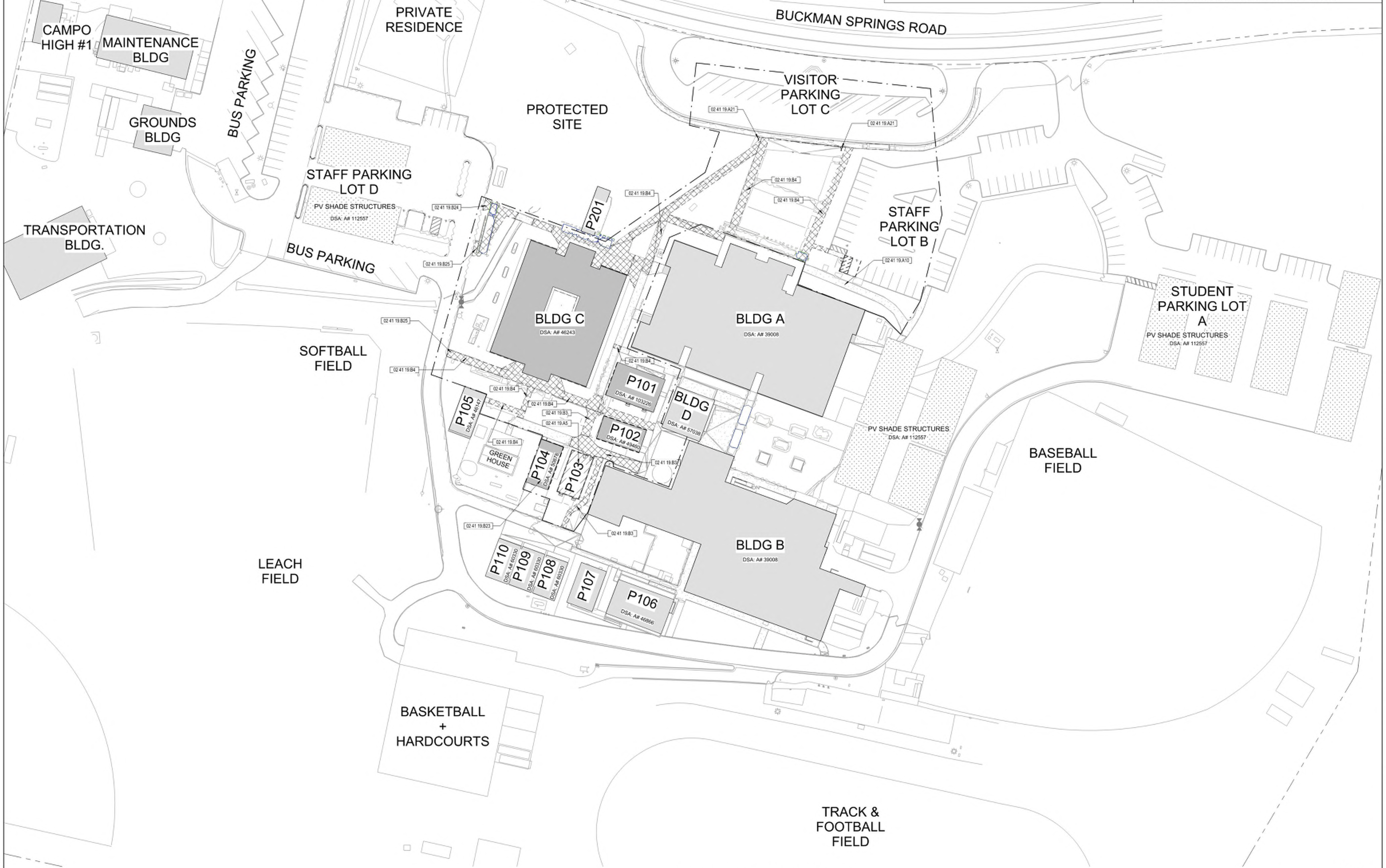
02 41 19.A5	EXISTING MODULAR BUILDING TO BE REMOVED
02 41 19.A10	EXISTING SIDEWALK TO REMAIN, TYP.
02 41 19.A21	REMOVE EXISTING LIGHT STANDARD
02 41 19.B3	ASPHALT PAVING TO BE REMOVED
02 41 19.B4	CONCRETE WALK TO BE REMOVED
02 41 19.B23	MOVE MODULAR TO PROVIDE ACCESS TO INSTALL NEW CONCRETE FOUNDATION, RETURN TO NEW FOUNDATION.
02 41 19.B24	REMOVE EXISTING CURB CUT
02 41 19.B25	EXISTING CURB CUT W/ DETECTABLE WARNING SURFACE TO REMAIN

SITE LEGEND

- (E) BUILDING TO BE DEMOLISHED
- (E) SITE WORK TO BE DEMOLISHED
- PROPERTY LINE
- LIMITS OF WORK
- BUILDING IN SCOPE OF WORK
- BUILDING NOT IN SCOPE OF WORK

GENERAL NOTES

1. DEMOLITION PLANS ARE BASED ON COMBINATION OF ON-SITE INVESTIGATION AND REVIEW OF AS-BUILT DOCUMENTATION FROM MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT.
2. REFER TO CIVIL SHEETS C-04 THRU C-08 FOR UTILITY P.O.C. TO REMAIN.
3. REFER TO ELECTRICAL FOR SWITCH GEAR & TRANSFORMER LOCATION.
4. PROTECT (E) FIRE HYDRANT DURING DEMOLITION, MAINTAIN PROPER FUNCTION AND MAKE UNIT EASILY ACCESSIBLE FOR LOCAL FIRE AUTHORITY.
5. CONTRACTOR TO CONFIRM WITH DISTRICT ANY DEMO ITEMS TO BE SALVAGED FOR DISTRICT DISPOSITION.
6. ALL EXISTING UNDERGROUND UTILITIES THAT SERVICE EXISTING BUILDINGS TO BE DEMOLISHED ARE TO BE REMOVED IN THEIR ENTIRETY THROUGHOUT THE AREA OF SITE DEMOLITION AND GRADING. CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES SHOWN ON THESE PLANS AND/OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
7. REFER TO LANDSCAPE DRAWINGS L0.1 FOR ALL TREE, LANDSCAPING, PLANTING AND IRRIGATION REMOVAL.
8. MISCELLANEOUS ACTIVE OR ABANDONED IN PLACE IRRIGATIONS LINES, WATER LINES, STORM DRAIN LINES, HIGH AND LOW PRESSURE GAS LINES, ELECTRICAL CONDUITS, LOW-VOLTAGE SYSTEMS INCLUDING TELEPHONE, FIRE ALARM AND TECHNOLOGY CONDUITS AND WIRING MAY BE ENCOUNTERED DURING SITE EXCAVATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ANY SYSTEMS INDICATED OR NOT INDICATED ON THE DEMOLITION PLAN AND TRACE BACK ANY LIVE SYSTEMS TO SOURCE AND CAP OFF AND REMOVE AND DISPOSE. SEE SECTION 02 41 19 "SELECTED DEMOLITION" PROCEDURES AND REQUIREMENTS.
10. INDIVIDUAL PORTABLE CLASSROOM LAYOUT VARIES. CONTRACTOR TO VERIFY IN THE FIELD.
11. DIG ALERT: CALL 1-800-227-2600 TWO WORKING DAYS BEFORE DIGGING



1 DEMOLITION SITE PLAN
1" = 40'-0"

TRUE NORTH

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DEMOLITION SITE PLAN

A-001

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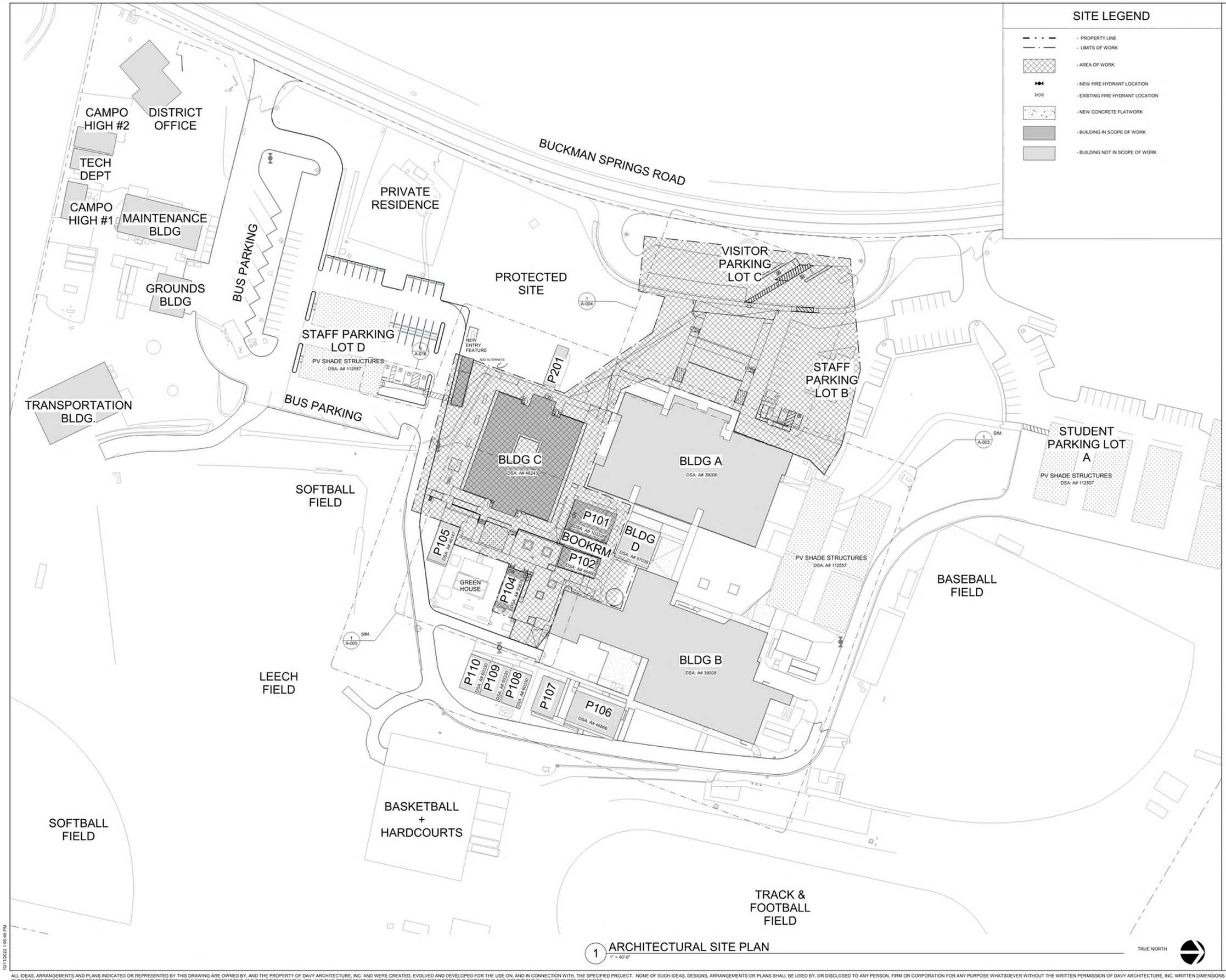

SITE LEGEND

- PROPERTY LINE
- LIMITS OF WORK
- AREA OF WORK
- NEW FIRE HYDRANT LOCATION
- EXISTING FIRE HYDRANT LOCATION
- NEW CONCRETE FLATWORK
- BUILDING IN SCOPE OF WORK
- BUILDING NOT IN SCOPE OF WORK

1 ARCHITECTURAL SITE PLAN
1" = 40'-0"

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AUDREY K. STEELE
No. C28089
REN. 08/31/23
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ARCHITECTURAL SITE PLAN

A-002

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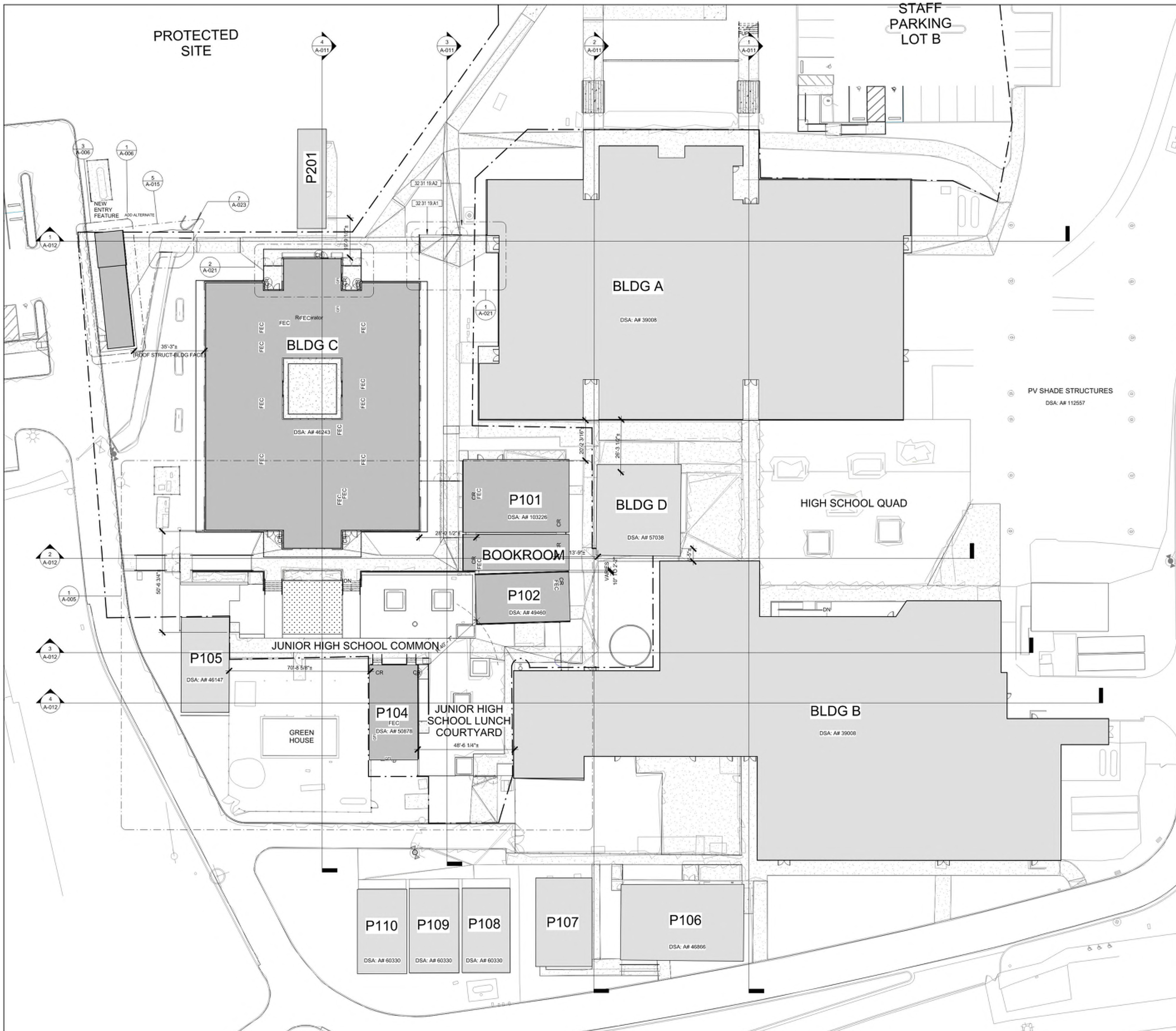

1 ARCHITECTURAL SITE PLAN - CAMPUS
1" = 20'-0"

GENERAL NOTES

PORTAND CEMENT CONCRETE PAVING AND CONCRETE FINISHES:

PORTAND CEMENT CONCRETE PAVING SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH **CBC SECTIONS 11B-302 AND 11B-403**

KEYNOTES

32 31 19.A1	DECORATIVE METAL FENCE, POWDER COAT FINISH - REFER TO 4/A-024
32 31 19.A2	DECORATIVE DOUBLE GATE, POWDER COAT FINISH - REFER TO 9/A-024

SITE LEGEND

- PROPERTY LINE
- LIMITS OF WORK
- NEW FIRE HYDRANT LOCATION
- EXISTING FIRE HYDRANT LOCATION
- NEW CONCRETE FLATWORK
- BUILDING IN SCOPE OF WORK
- BUILDING NOT IN SCOPE OF WORK

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ENLARGED SITE PLAN - CAMPUS

A-003

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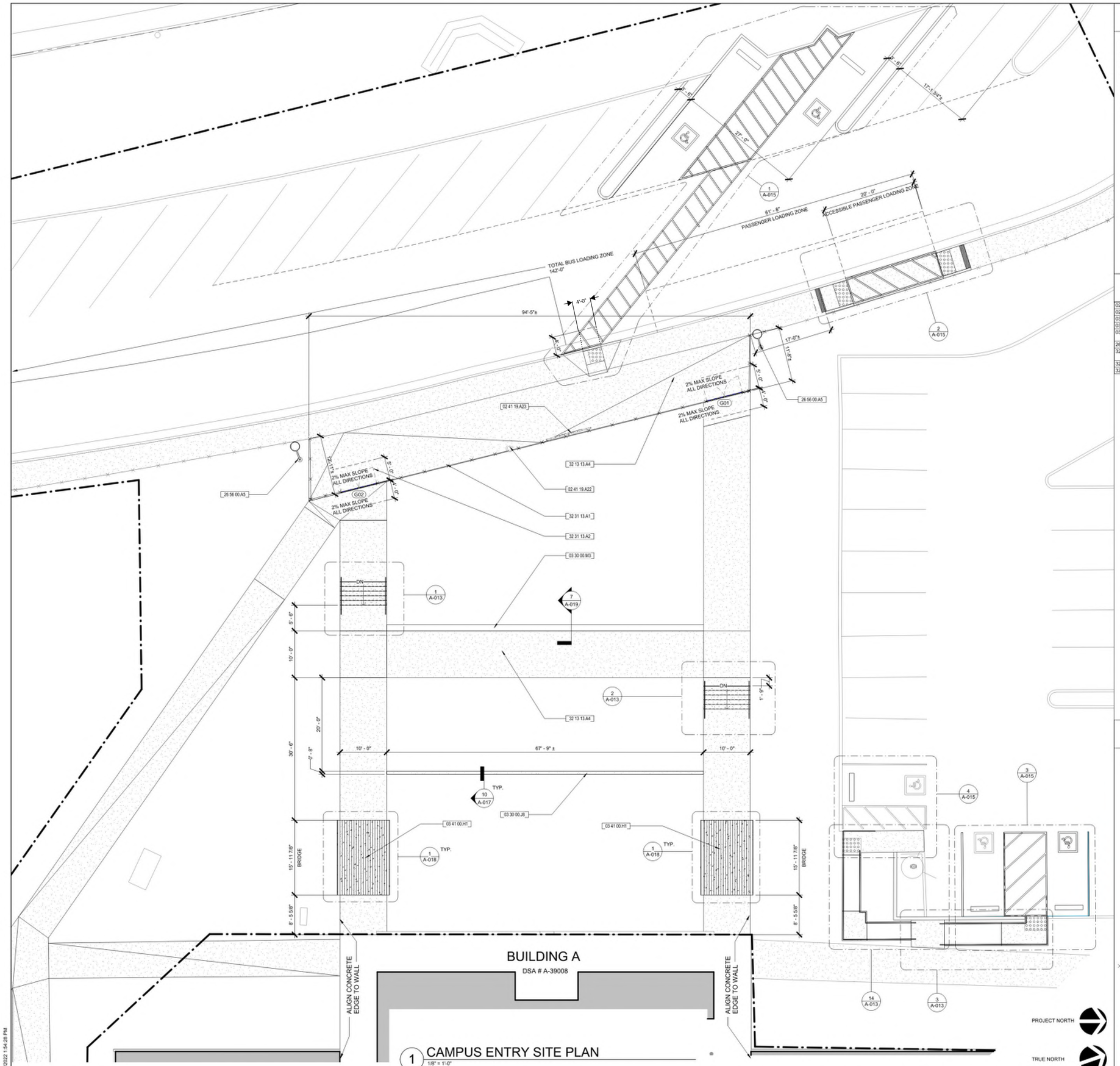

1 CAMPUS ENTRY SITE PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
2. DECORATIVE STEEL FENCE PER 4 / A-024
3. GATE SCHEDULE PER A-800.
4. DECORATIVE SINGLE STEEL GATE PER 10 / A-024
5. DECORATIVE DOUBLE STEEL GATE PER 9 / A-024
6. CHAIN LINK FENCE PER 2 / A-024
7. DOUBLE CHAIN LINK GATE PER 1 / A-024

FENCES, GATES AND HARDWARE:

- GATES THAT ARE A PART OF THE ACCESSIBLE ROUTE SHALL MEET ALL OF THE REQUIREMENTS OF AN ACCESSIBLE DOOR IN COMPLIANCE WITH **CBC SECTION 11B-404**.
- THE LEVERS OF A LEVER ACTUATED LATCHES OR LOCKS FOR ACCESSIBLE GATES SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" OF THE GATE SURFACES TO PREVENT CATCHING ON THE CLOTHING OF PERSONS. **CALIFORNIA REFERENCE STANDARDS CODE, T-24 PART 12, SECTION 12-10-202, ITEM (F)**.
- SWING DPOORS AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. **CBC SECION 11B-404.2.10**

PORTAND CEMENT CONCRETE PAVING AND CONCRETE FINISHES:

PORTAND CEMENT CONCRETE PAVING SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH **CBC SECTIONS 11B-302 AND 11B-403**

KEYNOTES

02 41 19.A22	EXISTING FLAGPOLE TO REMAIN
02 41 19.A23	EXISTING SCHOOL SIGN TO REMAIN
03 30 00.J8	8" WIDE CONCRETE MOW STRIP
03 30 00.M3	16" CAST-IN-PLACE CONCRETE BENCH WALL
03 41 00.H1	PRE-CAST CONCRETE BRIDGE FEATURE - FOR REFERENCE ONLY, DEFERRED APPROVAL REQUIRED
26 56 00.A5	NEW LIGHT STANDARD
32 13 13.A4	5" CAST-IN-PLACE SLAB W/ METAL MESH REINFORCEMENT IF OVER 8' IN BOTH DIRECTIONS, REFER TO CONCRETE PAVING NOTES C-01
32 31 13.A1	CHAIN LINK FENCE - REFER TO 2/A-024
32 31 13.A2	CHAIN LINK GATE - REFER TO 1/A-024

LEGEND

- PROPERTY LINE
- LIMITS OF WORK
- NEW CONCRETE FLATWORK
- NEW CONCRETE BRIDGE FEATURE WITH DECORATIVE CONCRETE SURFACE
- NEW DECORATIVE / STAMPED / COLORED CONCRETE
- NEW ARTIFICIAL TURF
- HSS COLUMN, SIZE PER STRUCTURAL
- NEW ACCESSIBLE PARKING ZONE STRIPING
- NEW 9'-0" HIGH GALVANIZED CHAIN LINK FENCING AND GATES
- NEW WROUGHT IRON DECORATIVE FENCING AND GATES
- BUILDING IN SCOPE OF WORK
- BUILDING NOT IN SCOPE OF WORK
- REFER TO I-202 FOR SIGNAGE TYPES

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ROBERT V. STRAYER
No. C28099
REN. 08/31/23
STATE OF CALIFORNIA

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ENLARGED SITE PLAN - CAMPUS ENTRY

A-004

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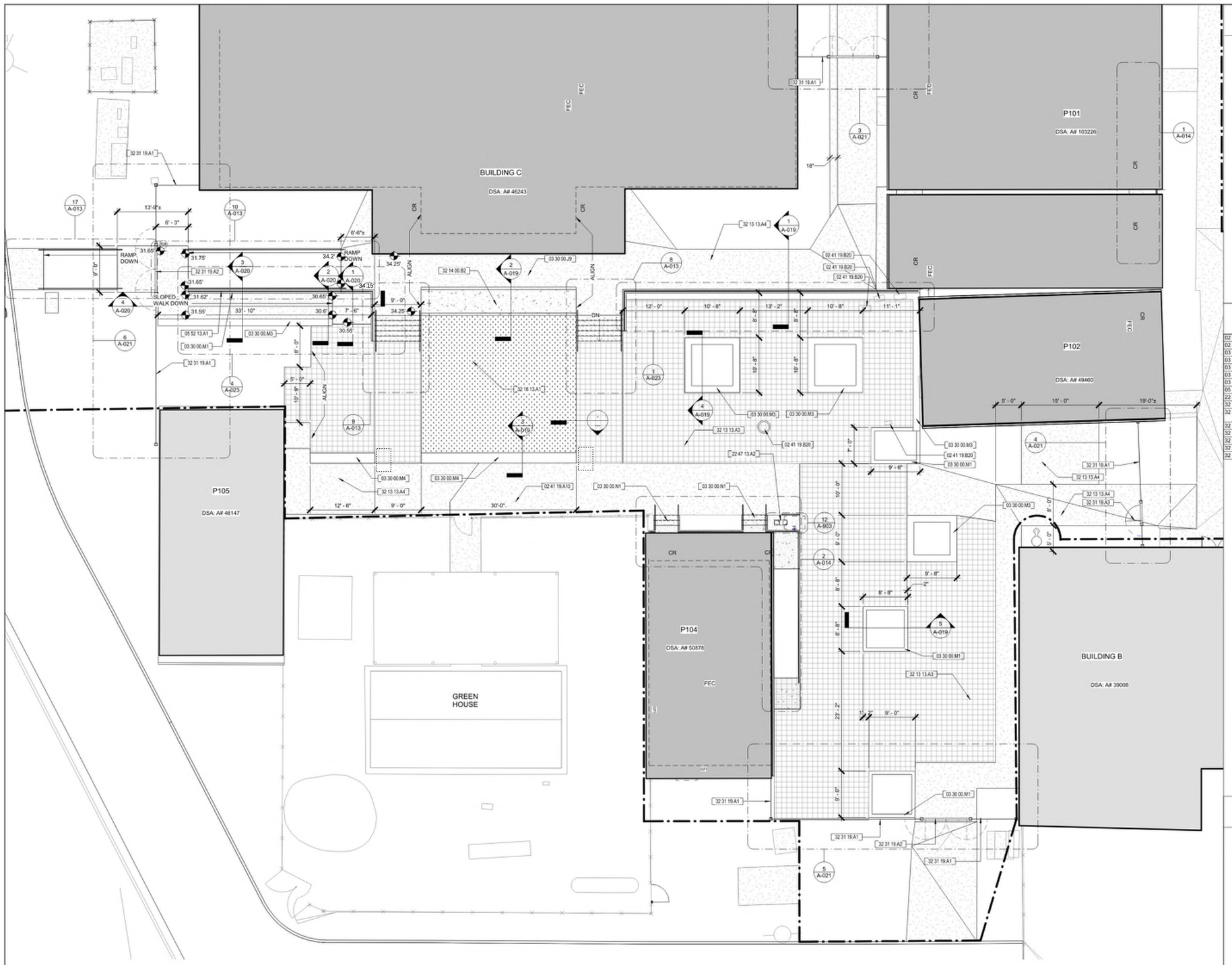

1 MIDDLE SCHOOL LUNCHYARD AND COMMONS
1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

GENERAL NOTES

PORTAND CEMENT CONCRETE PAVING AND CONCRETE FINISHES:

PORTAND CEMENT CONCRETE PAVING SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH **CBC SECTIONS 11B-302 AND 11B-403**

KEYNOTES

02 41 19.A10	EXISTING SIDEWALK TO REMAIN, TYP.
02 41 19.B20	REFER TO CIVIL SHEET C-06 FOR ADDITIONAL INFORMATION
03 30 00.J9	6" WIDE X 6" HIGH CONCRETE CURB
03 30 00.M1	8" CAST-IN-PLACE CONCRETE WALL
03 30 00.M3	16" CAST-IN-PLACE CONCRETE BENCH WALL
03 30 00.M4	24" CAST-IN-PLACE CONCRETE BENCH WALL
03 30 00.N1	7X11 CAST-IN-PLACE CONCRETE STAIR - REFER TO 13/S1.2
05 52 13.A1	METAL GUARD RAILING, REFER TO 12/A-017
22 47 13.A2	PEDESTAL DRINKING FOUNTAIN
32 13 13.A3	DECORATIVE CONCRETE PAVING - STAMPED PATTERN
32 13 13.A4	5" CAST-IN-PLACE SLAB W/ METAL MESH REINFORCEMENT IF OVER 8' IN BOTH DIRECTIONS, REFER TO CONCRETE PAVING NOTES C-01
32 14 00.B2	8" X 24" X 4" CONCRETE PAVER
32 18 13.A1	SYNTHETIC GRASS SURFACING PER B/L1.3
32 31 19.A1	DECORATIVE METAL FENCE, POWDER COAT FINISH - REFER TO 4/A-024
32 31 19.A2	DECORATIVE DOUBLE GATE, POWDER COAT FINISH - REFER TO 9/A-024
32 31 19.A3	DECORATIVE SINGLE GATE, POWDER COAT FINISH - REFER TO 10/A-024

LEGEND

- PROPERTY LINE
- LIMITS OF WORK
- NEW CONCRETE FLATWORK
- NEW CONCRETE BRIDGE FEATURE WITH DECORATIVE CONCRETE SURFACE
- NEW DECORATIVE / STAMPED / COLORED CONCRETE
- NEW ARTIFICIAL TURF
- HSS COLUMN, SIZE PER STRUCTURAL
- NEW ACCESSIBLE PARKING ZONE STRIPING
- NEW 9'-0" HIGH GALVANIZED CHAIN LINK FENCING AND GATES
- NEW WROUGHT IRON DECORATIVE FENCING AND GATES
- BUILDING IN SCOPE OF WORK
- BUILDING NOT IN SCOPE OF WORK
- REFER TO I-202 FOR SIGNAGE TYPES

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1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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LICENSED ARCHITECT
AUDREY A. STRATTON
NO. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
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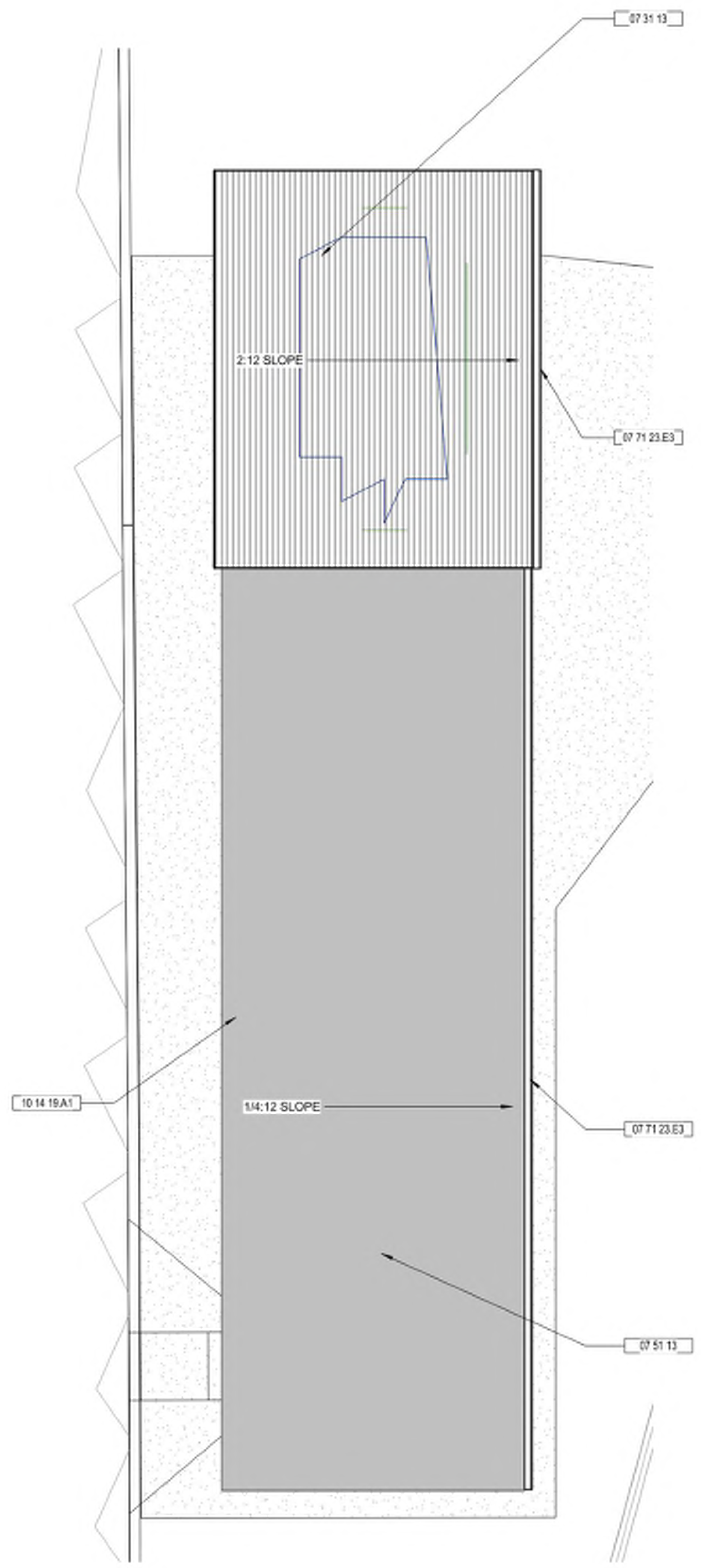
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

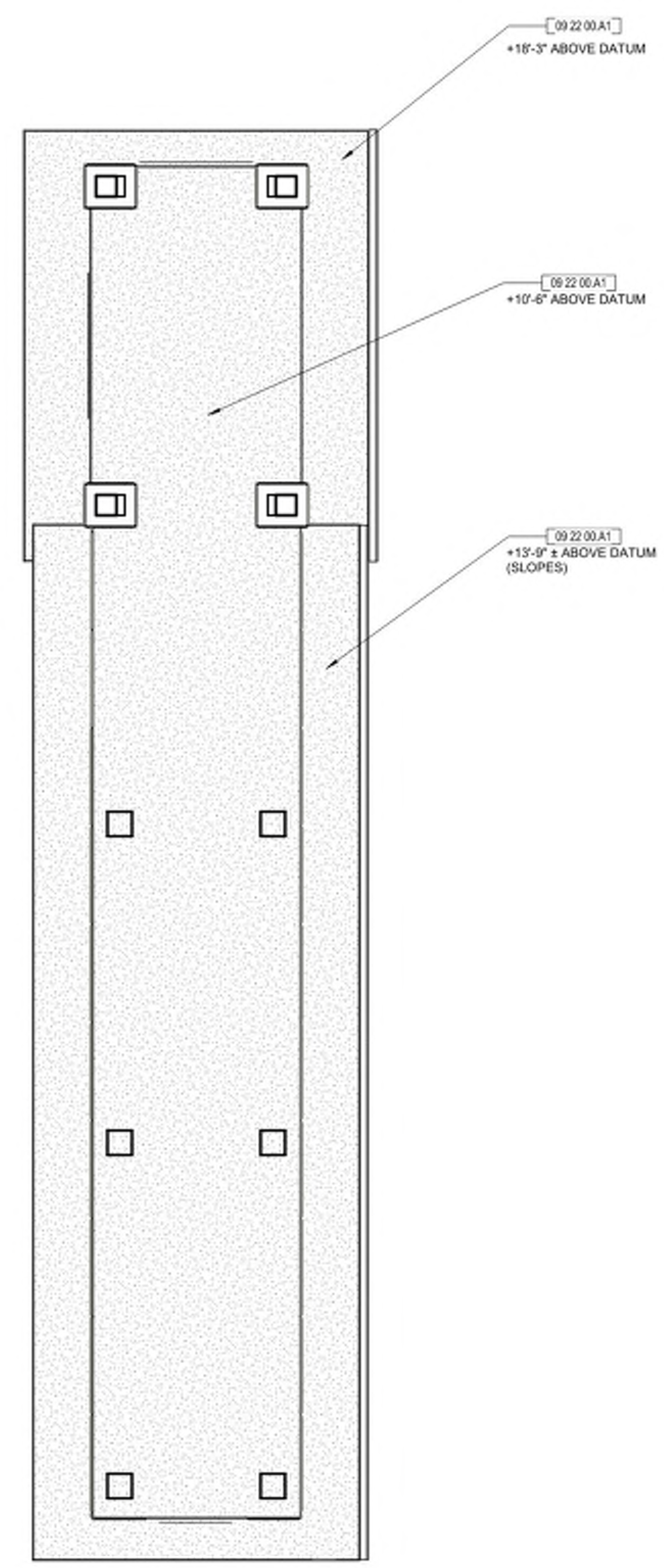
ENLARGED SITE PLAN - JR HIGH SCHOOL COMMON

A-005

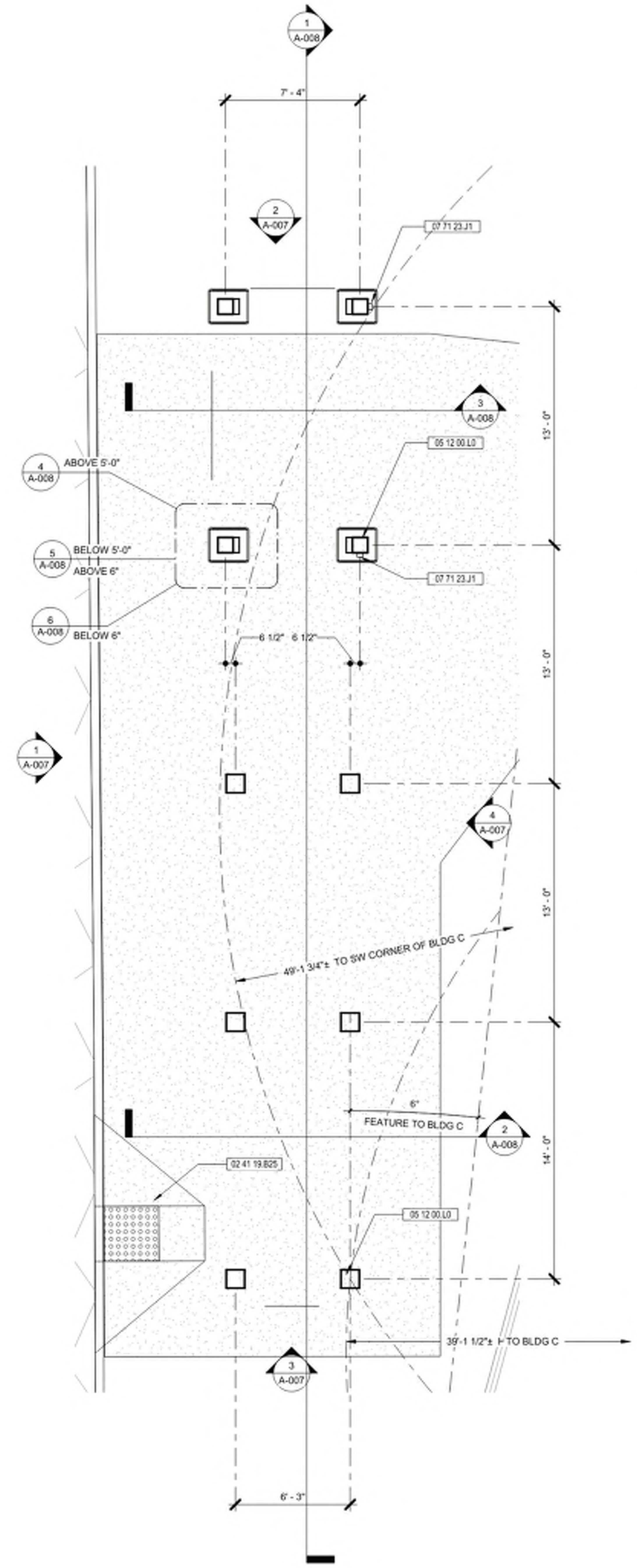
10/10/2022 1:54:32 PM



3 ROOF PLAN - JR HIGH SCHOOL ENTRY FEATURE
1/4" = 1'-0"



2 RCP - MIDDLE SCHOOL ENTRY FEATURE
1/4" = 1'-0"



1 FLOOR PLAN - JR HIGH SCHOOL ENTRY FEATURE
1/4" = 1'-0"

PLAN NORTH
TRUE NORTH

GENERAL NOTES

FLOOR PLAN

1. PROVIDE BACKING FOR ALL CASE WORK.
2. DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
3. DOORS SCHEDULED ON SHEET A-800.
4. WINDOWS SCHEDULED ON SHEET A-810.
5. WALL TYPES SCHEDULED ON SHEETS A-700, A-701 & A-702.

REFLECTED CEILING PLAN

1. CEILING HEIGHT PER PLAN.
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF PLAN

1. ALL ROOF PENETRATION TO BE 18" MINIMUM CLEAR FROM STRUCTURAL SYSTEM.
2. ATTIC VENTILATION: BUILDING SHOULD BE PROVIDED WITH NATURAL VENTILATION IN ACCORDANCE WITH 1202.2 OR WITH CALIFORNIA MECHANICAL CODE. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED.

KEYNOTES

02 41 19.B25	EXISTING CURB CUT W/ DETECTABLE WARNING SURFACE TO REMAIN
05 12 00.L0	TUBE SHAPE
07 31 13	ASPHALT SHINGLES
07 51 13	BUILT-UP ASPHALT ROOFING
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
09 22 00.A1	PORTLAND CEMENT PLASTER W/ ACRYLIC SMOOTH FINISH
10 14 19.A1	DIMENSIONAL LETTER SIGNAGE

LEGEND

- WALL BELOW
- EXTERIOR WALL WITH METAL PARAPET CAP
- OVERHEAD ROOF OR UNDER SIDE OF ROOF
- EXISTING ROOF ACCESS HATCH TO REMAIN
- NEW BUILT UP ROOFING
- NEW ASPHALT SHINGLES
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN
- NEW CONCRETE STEM WALL

LEGEND

- EXTERIOR STUCCO WALL
- NEW CONCRETE FLATWORK
- NEW CONCRETE BRIDGE FEATURE WITH DECORATIVE CONCRETE SURFACE
- HSS COLUMN, SIZE PER STRUCTURAL
- NEW EXTERIOR PLASTER

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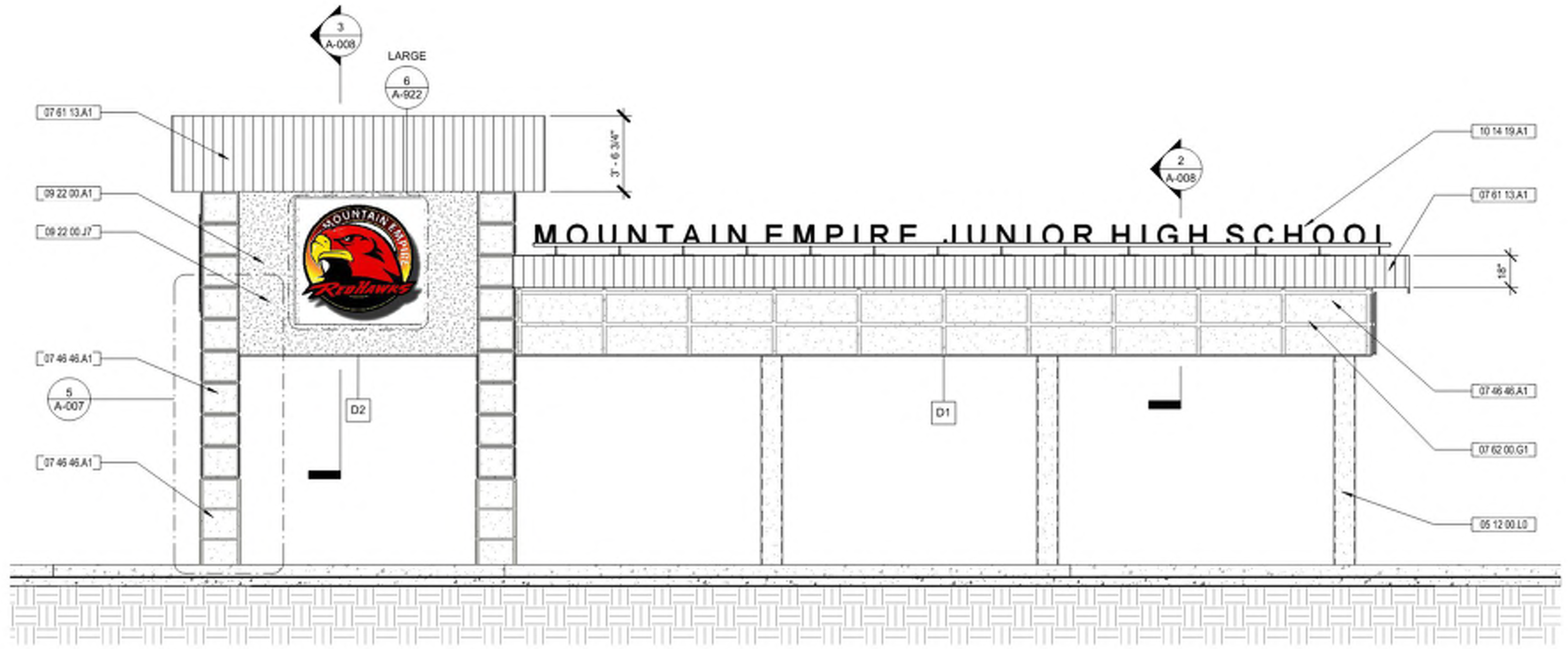
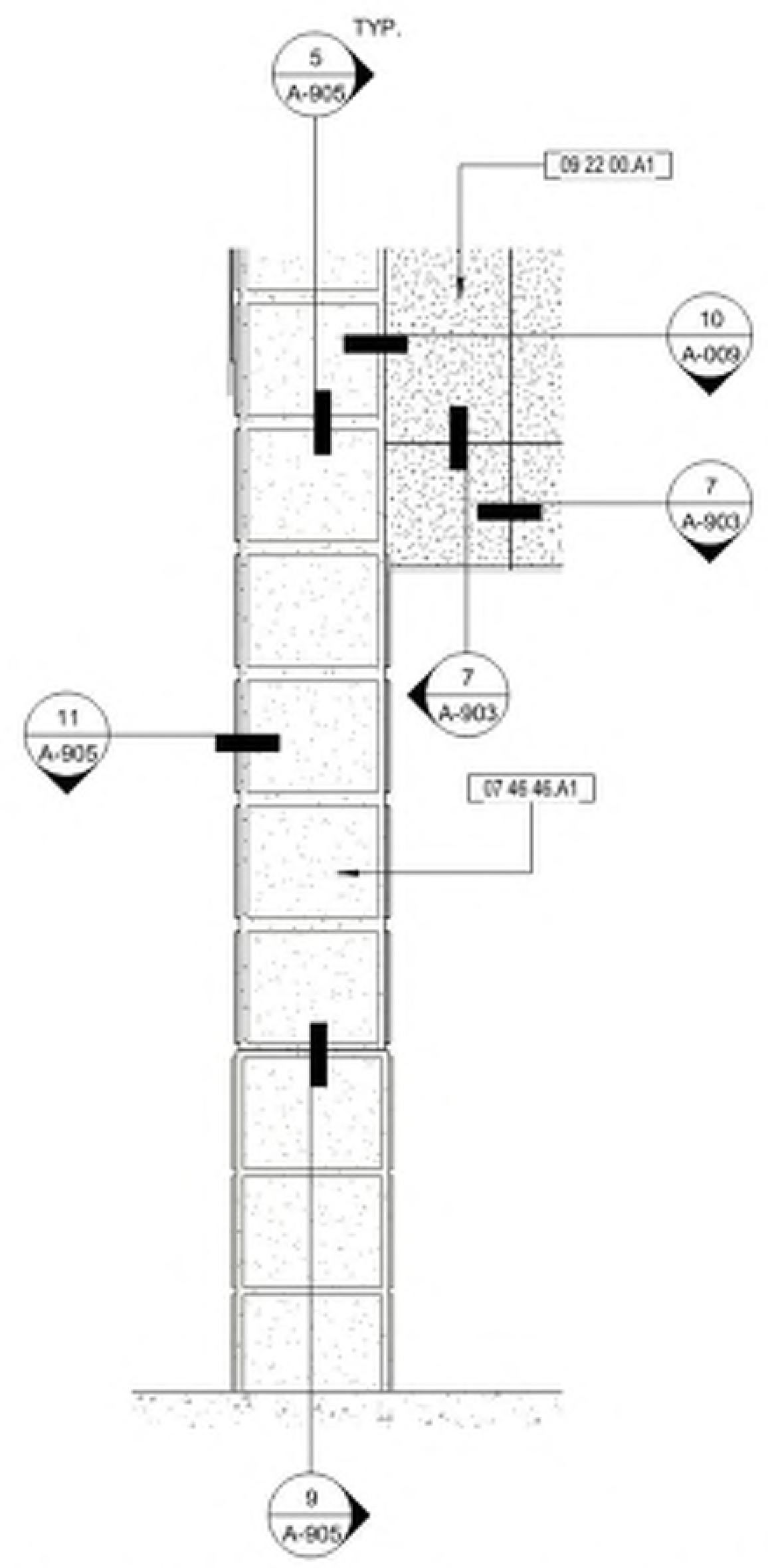
JUNIOR HIGH ENTRY FEATURE PLANS - ADD ALTERNATE

A-006

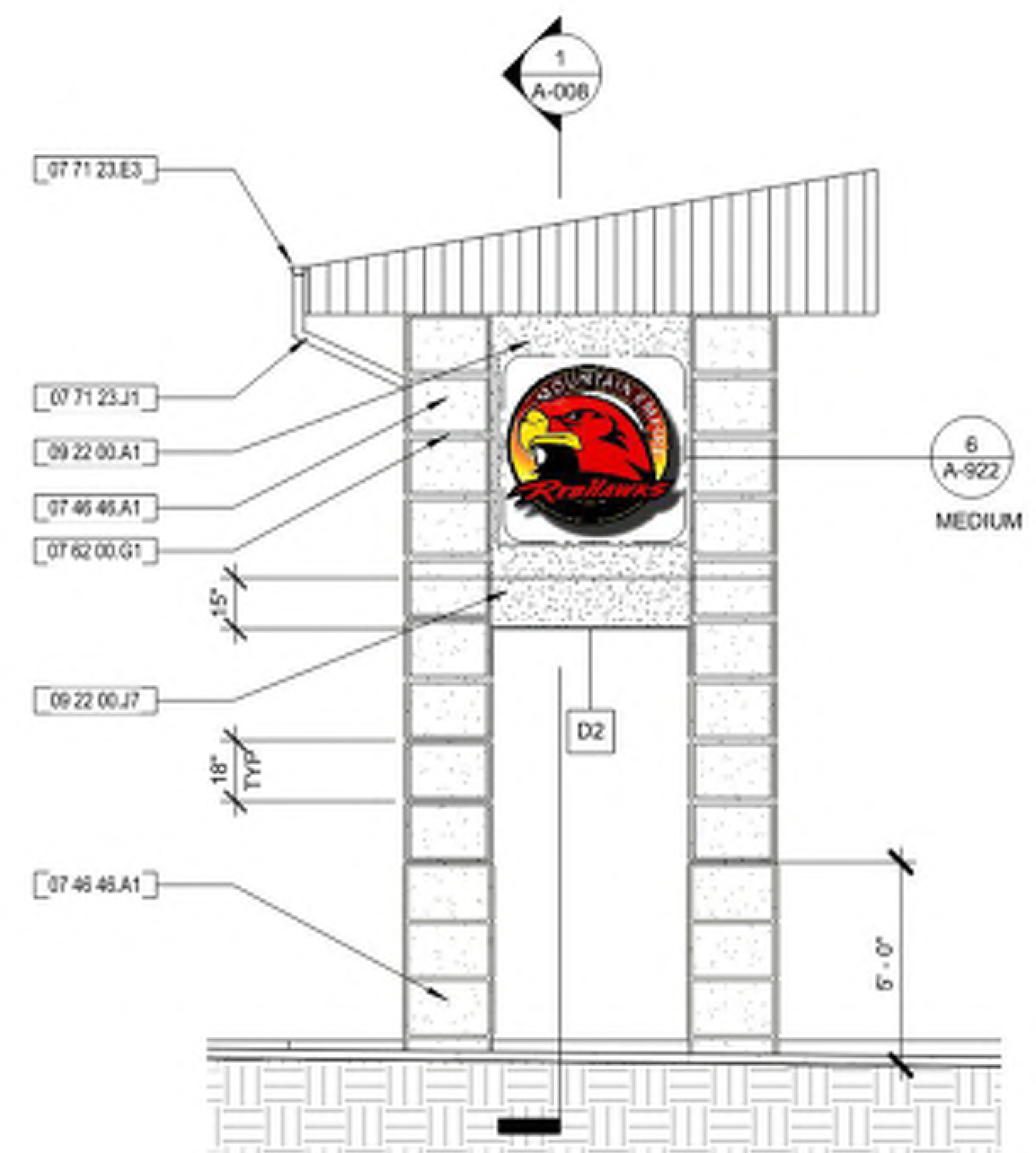
9/27/2022 9:21:51 AM



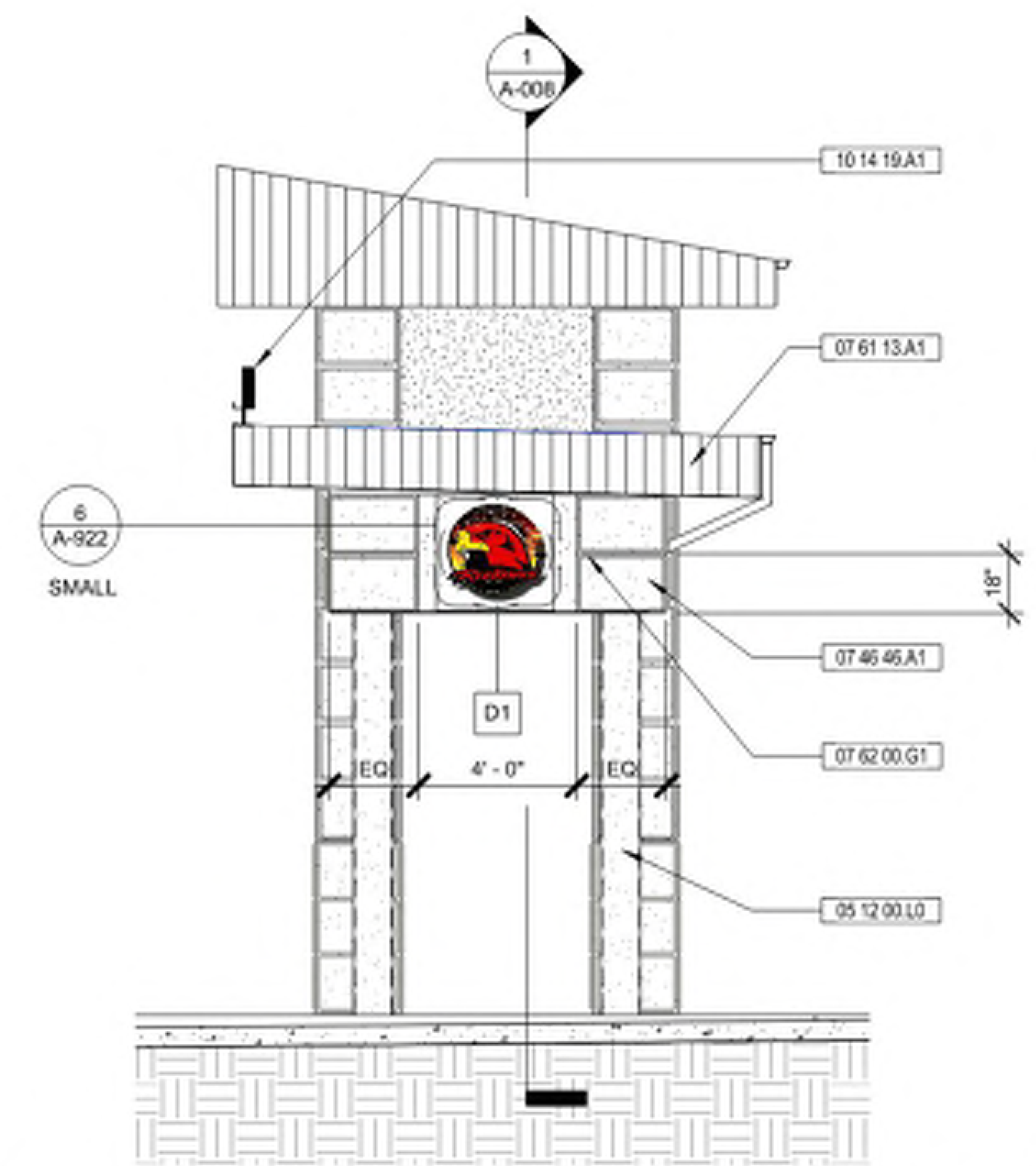
1 JR HIGH ENTRY FEATURE - SOUTH ELEVATION
1/4" = 1'-0"



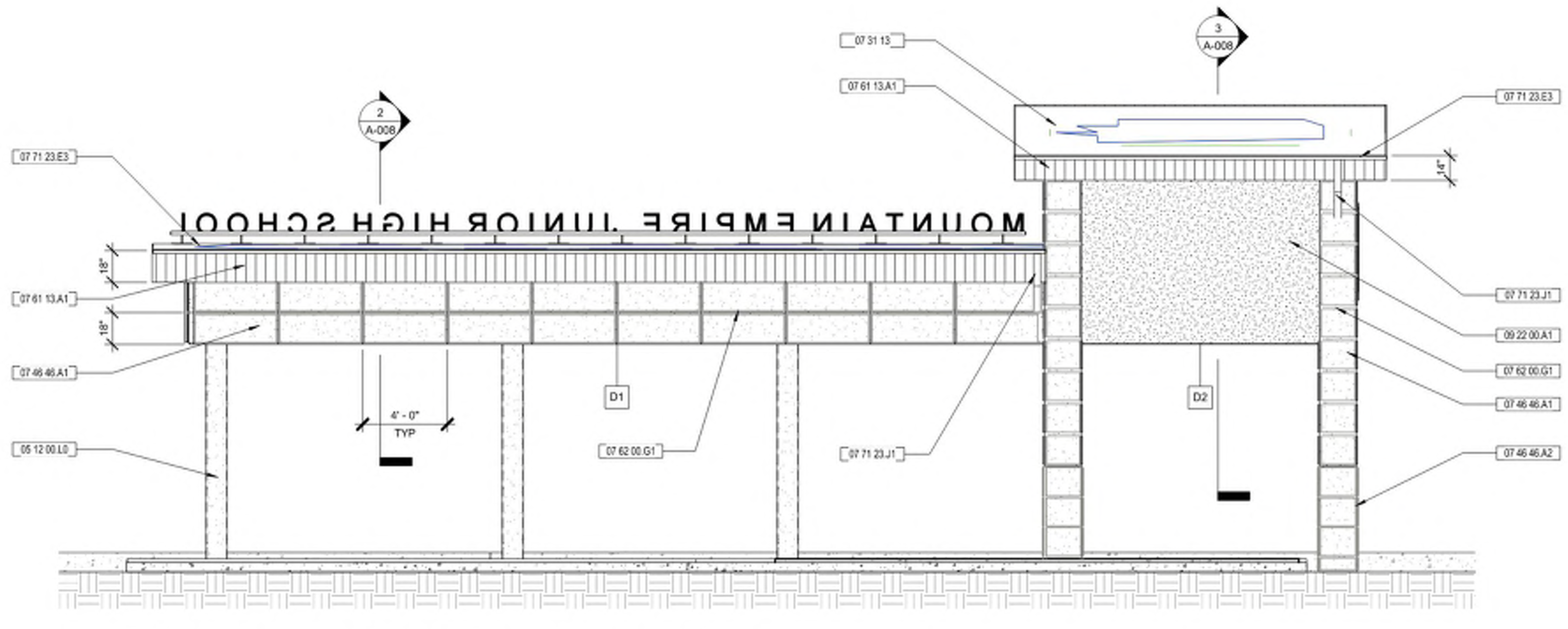
5 DETAIL PARTIAL ELEVATION - ENTRY FEATURE
1/2" = 1'-0"



2 JR HIGH ENTRY FEATURE - WEST ELEVATION
1/4" = 1'-0"



3 JR HIGH ENTRY FEATURE - EAST ELEVATION
1/4" = 1'-0"



4 JR HIGH ENTRY FEATURE - NORTH ELEVATION
1/4" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
2. DIMENSIONS FOR MIRRORED OR SYMETRICAL CONSTRUCTION MAY BE ILLUSTRATED AT ONE SIDE AND SHALL BE ASSUMED SIMILAR FOR THE OTHER.
3. KEYNOTES MAY BE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. SIMILAR CONSTRUCTION OR BUILDING ELEMENTS SHALL BE ASSUMED TO BE NOTED SIMILARLY. KEYNOTES APPLY TYPICALLY, U.O.N.
4. WALL TYPE SCHEDULED ON SHEETS A-701.
5. REFER TO S3.1, 20/S4.1 & S5.1 FOR ADDITIONAL STRUCTURAL DETAILS.

KEYNOTES

05 12 00.L0	TUBE SHAPE
07 31 13	ASPHALT SHINGLES
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 46 46.A2	FIBRE CEMENT SIDING - GROOVED-TEXTURED FINISH
07 61 13.A1	METAL FASCIA REFER TO 6/A-921, PAINT "LET IT RAIN" SW9152
07 62 00.G1	FIBRE CEMENT SIDING H-MOLD TRIM, REFER TO 7/A-905
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
09 22 00.A1	PORTLAND CEMENT PLASTER W/ ACRYLIC SMOOTH FINISH
09 22 00.J7	2" CHANNEL REVEAL, REFER TO 7/A-903
10 14 19.A1	DIMENSIONAL LETTER SIGNAGE

LEGEND

ROOF BEYOND

CEMENT PLASTER - LA HABRA, FRENCH VANILLA X-55, FINE FLOAT FINISH

CEMENT BOARD - SMOOTH FINISH
NICHIHA - ILLUMINATION - SEE BELOW FOR COLORS

SMOOTH FINISH CEMENT BOARD COLORS

LEGS

FOG
FOG
NICKEL
NICKEL
GRANITE
GRANITE
GRANITE
LAVA
LAVA
LAVA
SCARLET
SCARLET

MAIN BODY

VARIES
19 1/2"
4' - 0"
4' - 0"

NICKEL
GRANITE

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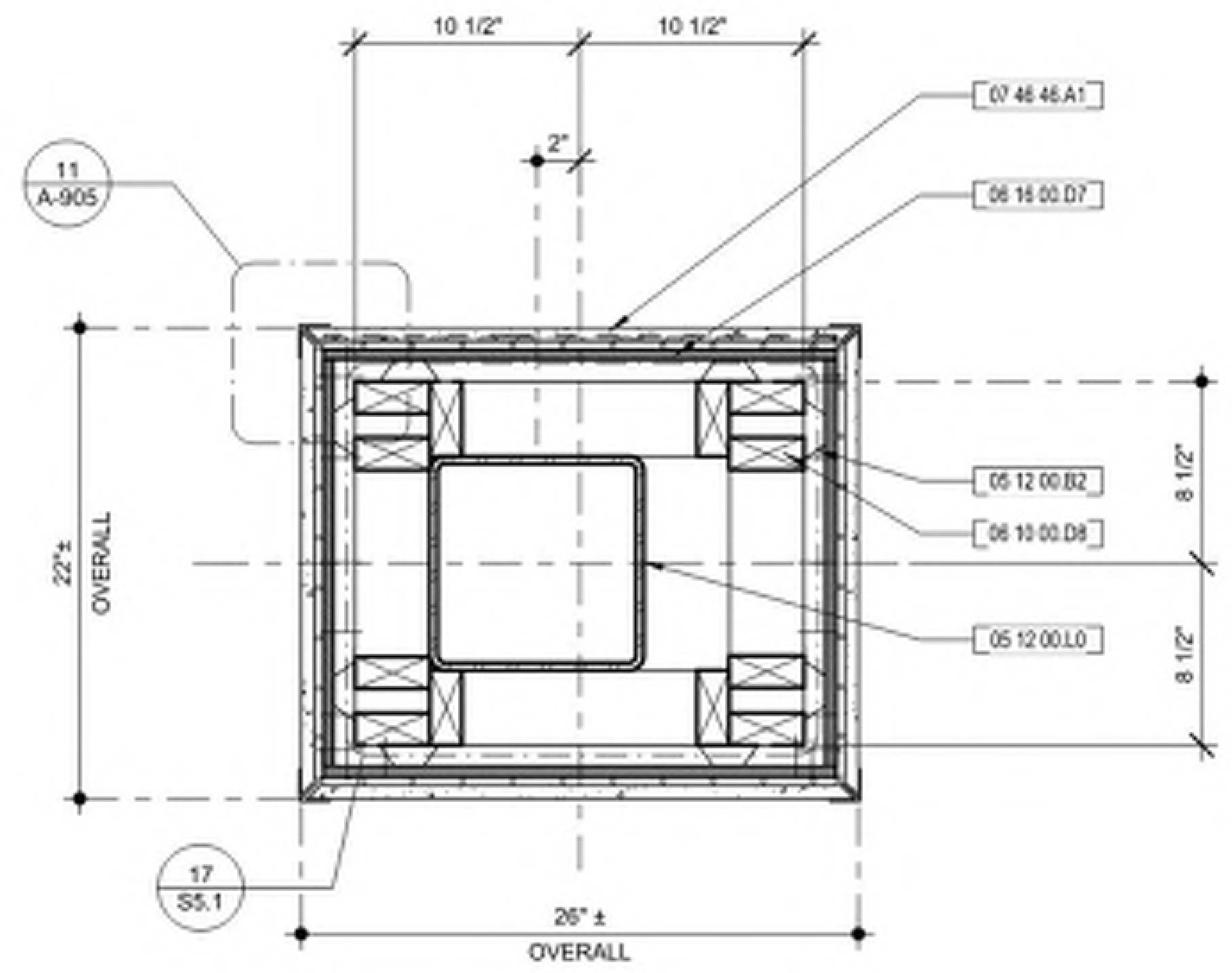
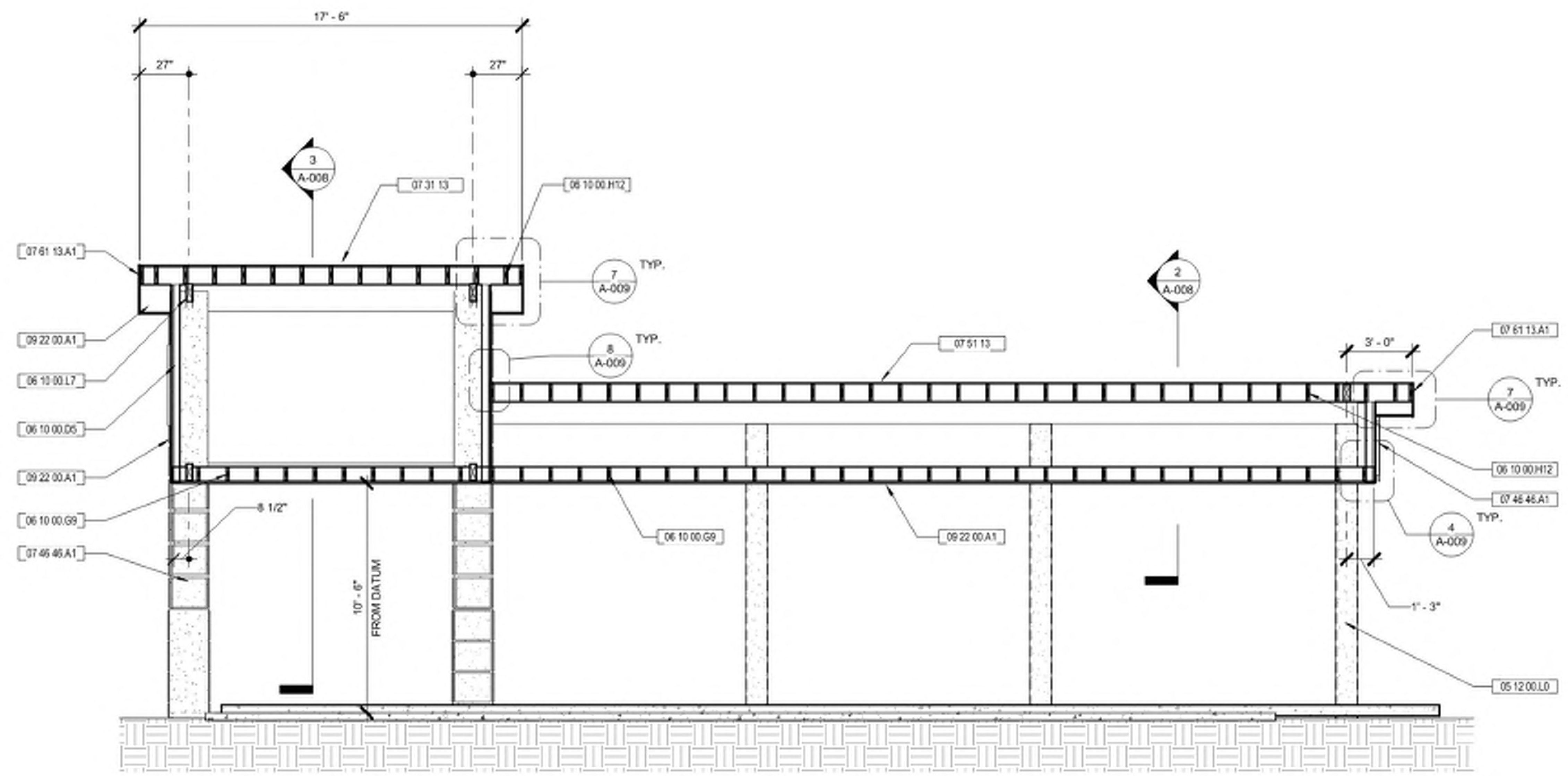
JUNIOR HIGH ENTRY FEATURE ELEVATIONS - ADD ALTERNATE

A-007

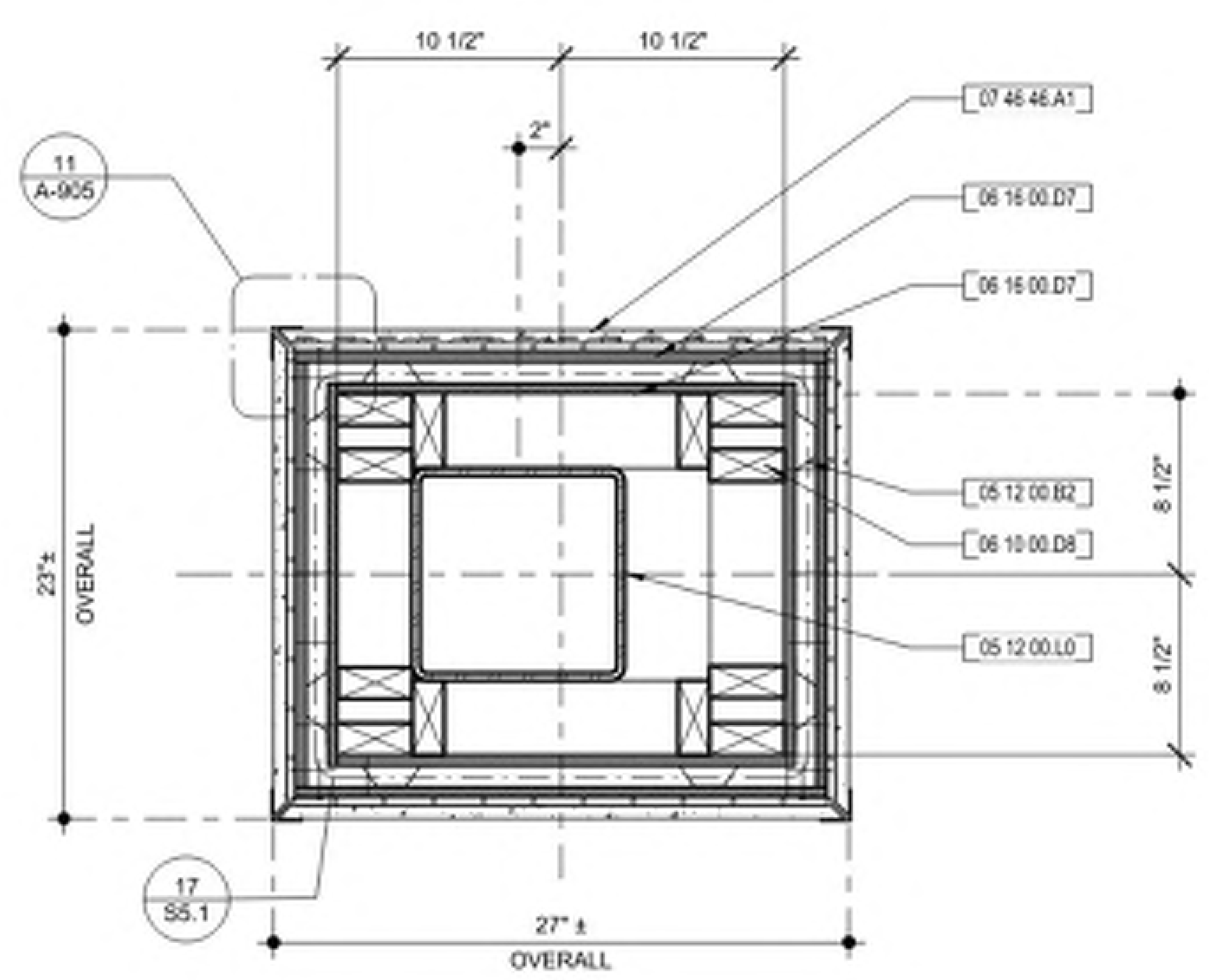
9/27/2022 9:22:00 AM



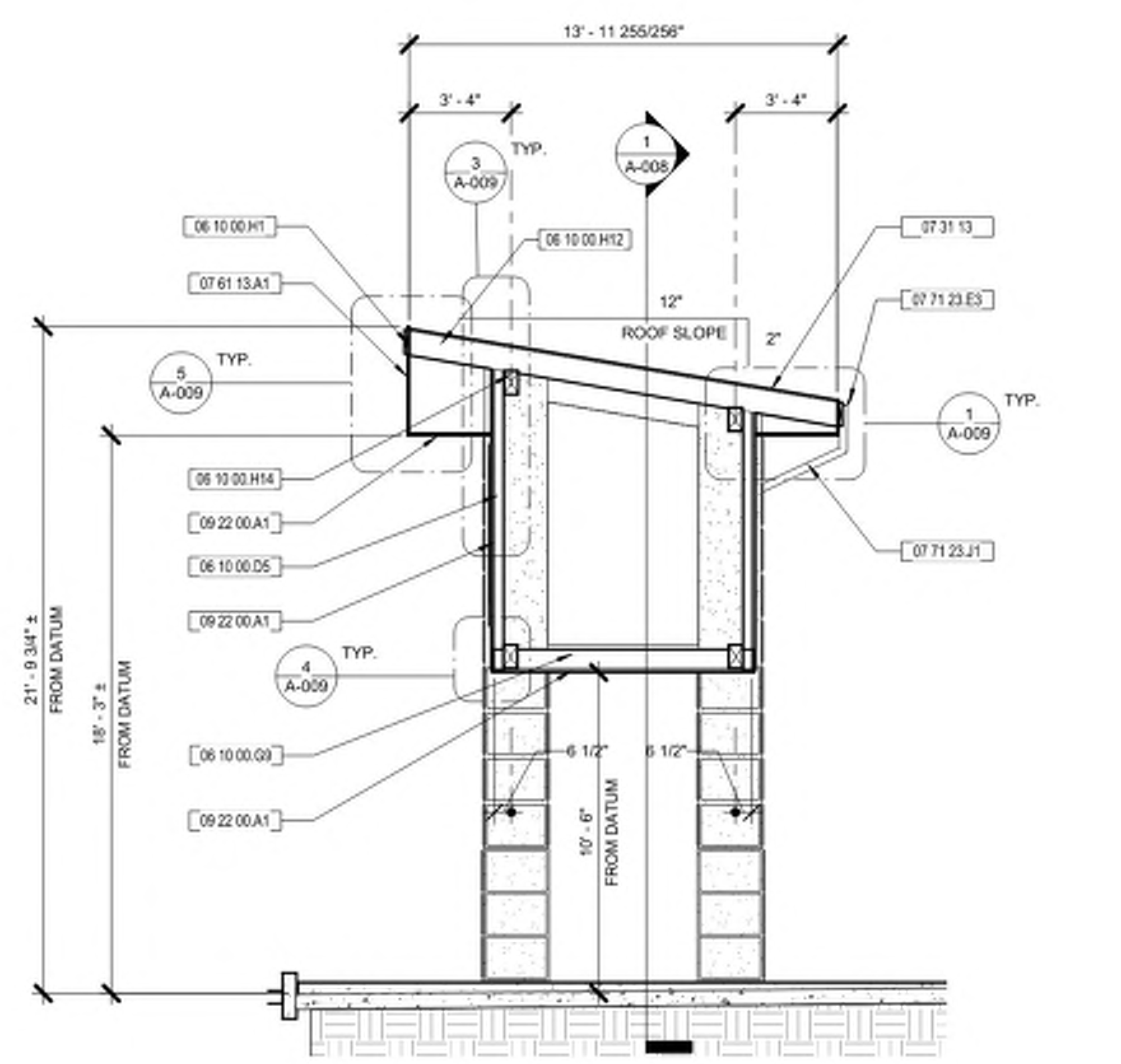
4 DETAIL PLAN - LEG ABOVE 5'
1 1/2" = 1'-0"



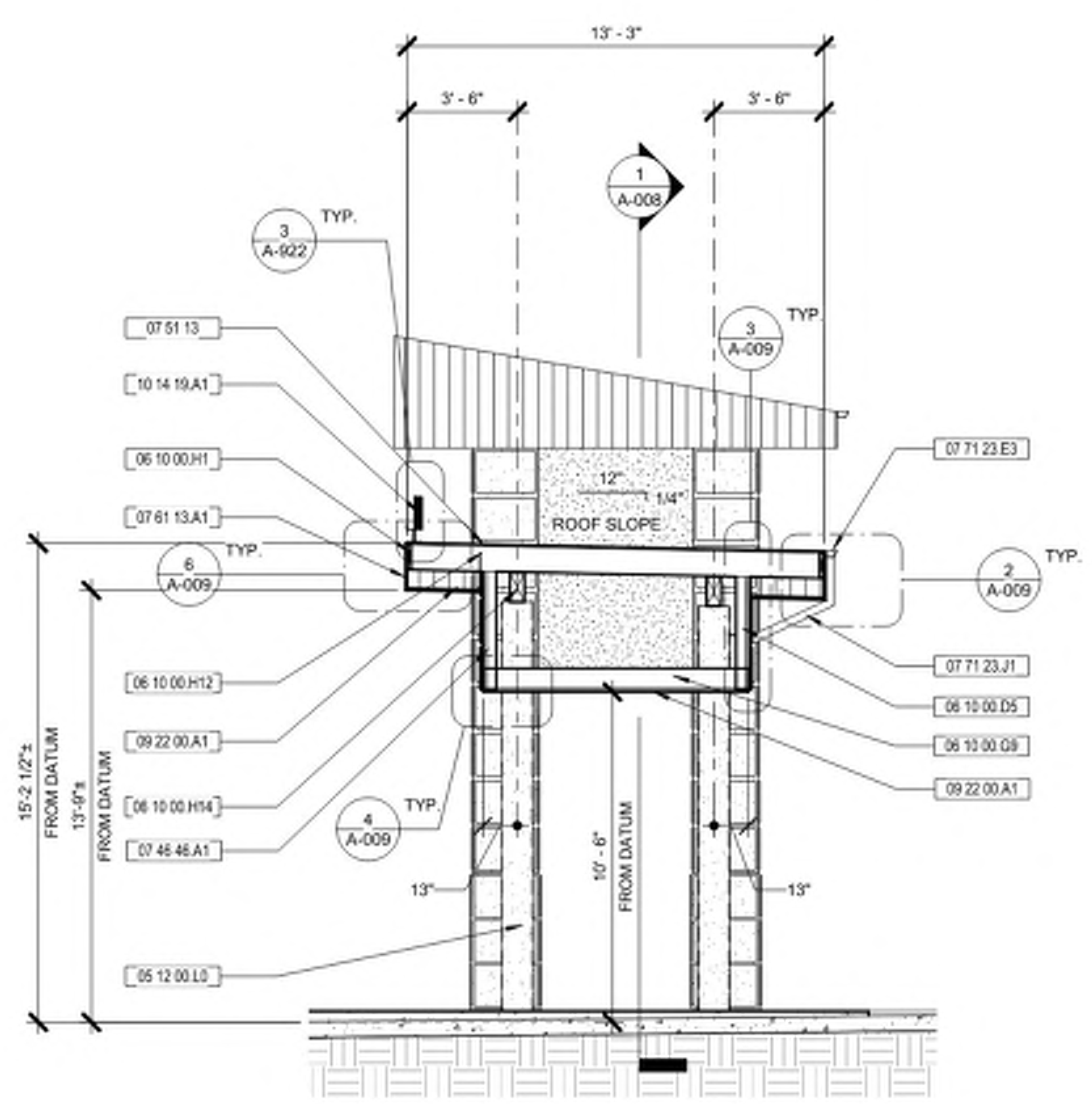
1 JR HIGH ENTRY FEATURE - LONGITUDINAL SECTION
1/4" = 1'-0"



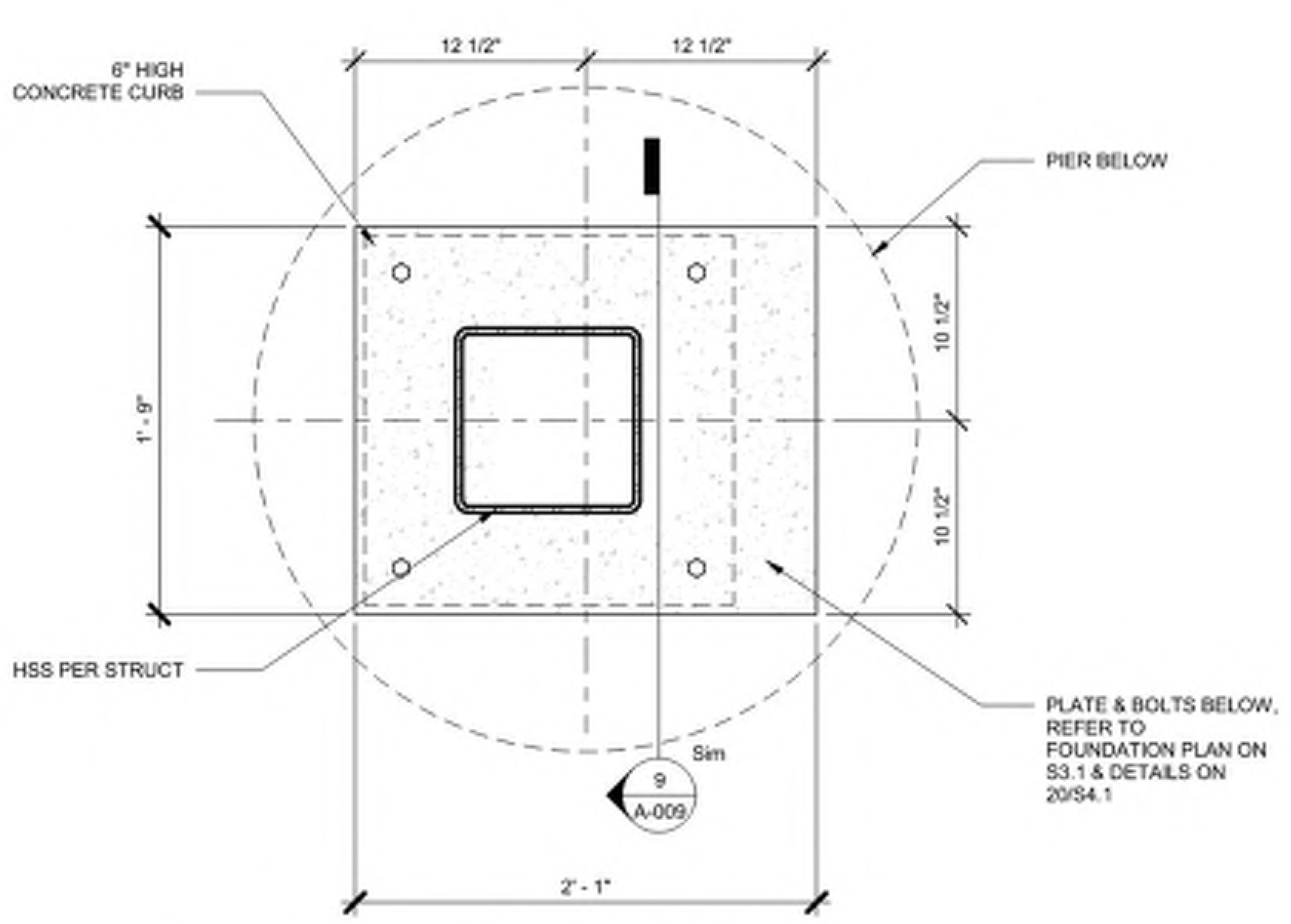
5 DETAIL PLAN - LEG BELOW 5'
1 1/2" = 1'-0"



3 JR HIGH ENTRY FEATURE - CROSS SECTION TOWER
1/4" = 1'-0"



2 JR HIGH ENTRY FEATURE - CROSS SECTION
1/4" = 1'-0"



6 DETAIL PLAN - LEG CURB
1 1/2" = 1'-0"

GENERAL NOTES

1. REFER TO S3.1, 20/S4.1 & S5.1 FOR ADDITIONAL STRUCTURAL DETAILS.
2. WALL TYPE SCHEDULED ON SHEETS A-701.

KEYNOTES

05 12 00.B2	1" HAT CHANNEL
05 12 00.L0	TUBE SHAPE
06 10 00.D5	2X4 FRAMING @ 16" O.C.
06 10 00.D8	2X4 STUDS @ 16" O.C.
06 10 00.G9	2X8 CEILING JOISTS @ 16" O.C.
06 10 00.H1	2X10
06 10 00.H12	2X10 RAFTERS @ 16" O.C.
06 10 00.H14	6X10 BEAM
06 10 00.L7	4X10 BEAM
06 16 00.D7	1/2" EXTERIOR GRADE PLYWOOD
07 31 13	ASPHALT SHINGLES
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 51 13	BUILT-UP ASPHALT ROOFING
07 61 13.A1	METAL FASCIA REFER TO 6/A-921, PAINT "LET IT RAIN" SW9152
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
09 22 00.A1	PORTLAND CEMENT PLASTER W/ ACRYLIC SMOOTH FINISH
10 14 19.A1	DIMENSIONAL LETTER SIGNAGE

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Mountain Empire Unified School District

Project No.2017

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DAVY PROJECT No: 2017
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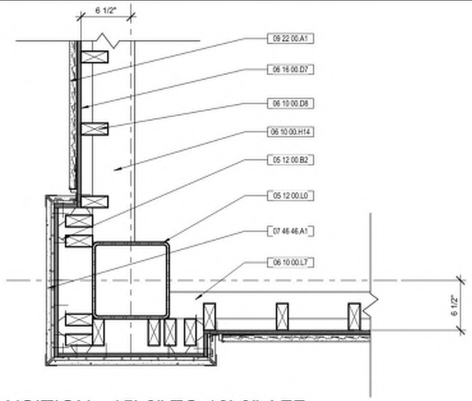
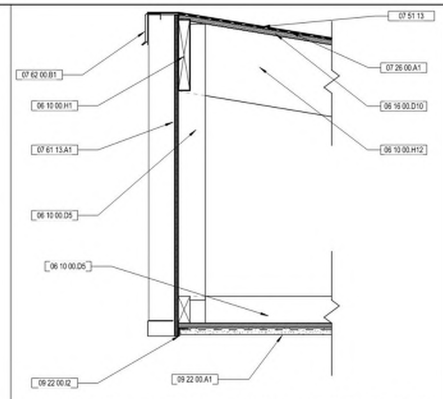
JUNIOR HIGH ENTRY FEATURE SECTIONS/DETAILS - ADD ALTERNATE

A-008

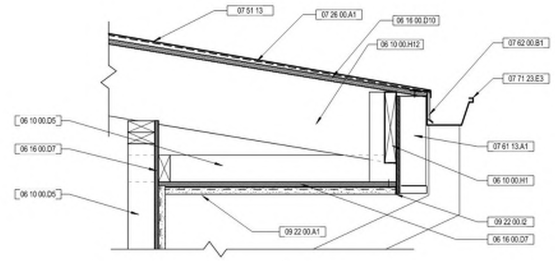
9/27/2022 9:22:08 AM



11 COL TRANSITION - 15'-2" TO 18'-3" AFF
1 1/2" = 1'-0"



5 FASCIA DETAIL - HIGH ROOF FRONT
1 1/2" = 1'-0"



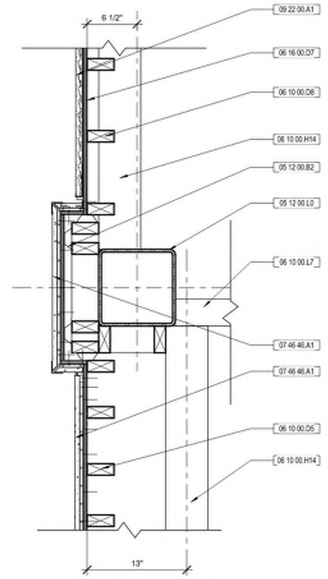
1 FASCIA DETAIL - HIGH ROOF BACK
1 1/2" = 1'-0"

GENERAL NOTES

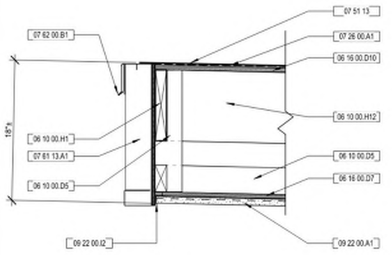
1. REFER TO S3.1, 20/S4.1 & S5.1 FOR ADDITIONAL STRUCTURAL DETAILS.
2. WALL TYPE SCHEDULED ON SHEETS A-701.

KEYNOTES

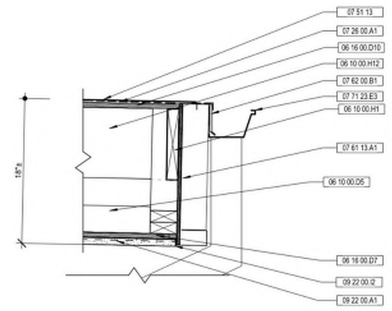
03 30 00.R1	6" HIGH CONCRETE CURB
05 05 23.J1	2" LONG CORROSION-RESISTANT STEEL WIRE FURRING NAILS @ 4" OC, EMBED 1.125" MIN
05 12 00.B2	1" HAT CHANNEL
05 12 00.L0	TUBE SHAPE
06 10 00.D2	TREATED 2X4
06 10 00.D5	2X4 FRAMING @ 16" O.C.
06 10 00.D8	2X4 STUDS @ 16" O.C.
06 10 00.G1	2X8
06 10 00.G9	2X8 CEILING JOISTS @ 16" O.C.
06 10 00.H1	2X10
06 10 00.H12	2X10 RAFTERS @ 16" O.C.
06 10 00.H14	6X10 BEAM
06 10 00.L7	4X10 BEAM
06 16 00.D7	1/2" EXTERIOR GRADE PLYWOOD
06 16 00.D10	5/8" EXTERIOR GRADE PLYWOOD
07 26 00.A1	MOISTURE BARRIER
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 51 13	BUILT-UP ASPHALT ROOFING
07 61 13.A1	METAL FASCIA REFER TO 6/A-921, PAINT "LET IT RAIN" SW9152
07 62 00.A0	METAL FLASHING
07 62 00.B1	4" ROOF EDGE
07 62 00.F1	RECTANGULAR RAIN LEADER
07 62 00.H1	EXTERIOR PLASTER WEEPSCREED
07 71 23.E3	6" X 4" BEVELED GUTTER
09 22 00.A1	PORTLAND CEMENT PLASTER W/ ACRYLIC SMOOTH FINISH
09 22 00.I2	7/8" J-MOLD FLASHING
09 29 00.H1	CORNER BEAD
22 13 16.A4	OVERFLOW ROOF DRAIN



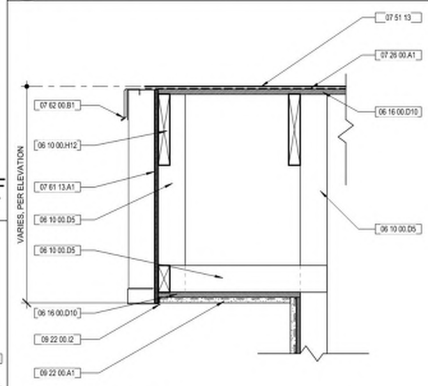
9 COL TRANSITION - 10'-6" TO 13'-6" AFF
1 1/2" = 1'-0"



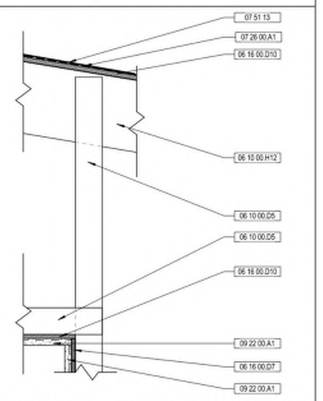
6 FASCIA DETAIL - LOW ROOF FRONT
1 1/2" = 1'-0"



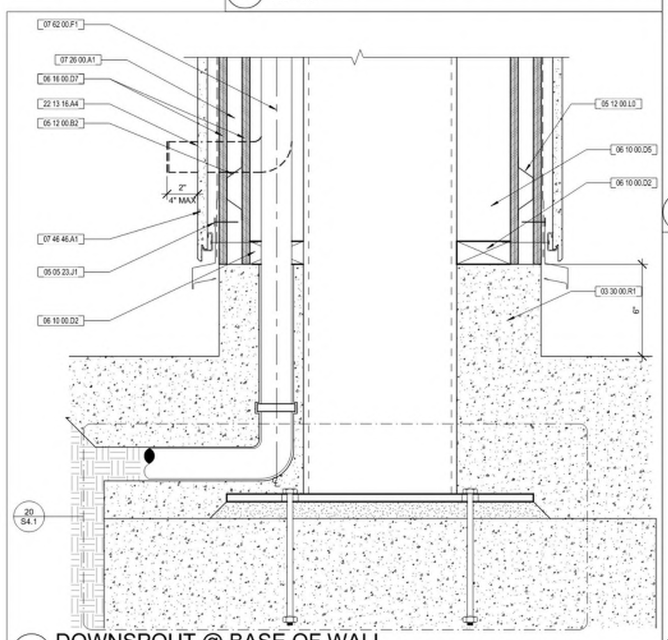
2 FASCIA DETAIL - LOW ROOF BACK
1 1/2" = 1'-0"



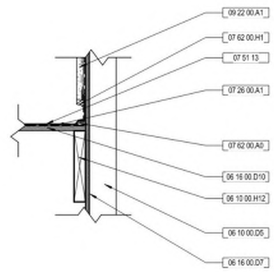
7 RAKE DETAIL
1 1/2" = 1'-0"



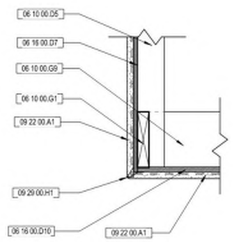
3 FRAMING DETAIL - TOP CONNECTION
1 1/2" = 1'-0"



10 DOWNSPOUT @ BASE OF WALL
3" = 1'-0"



8 WALL TO ROOF DETAIL
1 1/2" = 1'-0"



4 FRAMING DETAIL - BTTM CONN TO CJ
1 1/2" = 1'-0"

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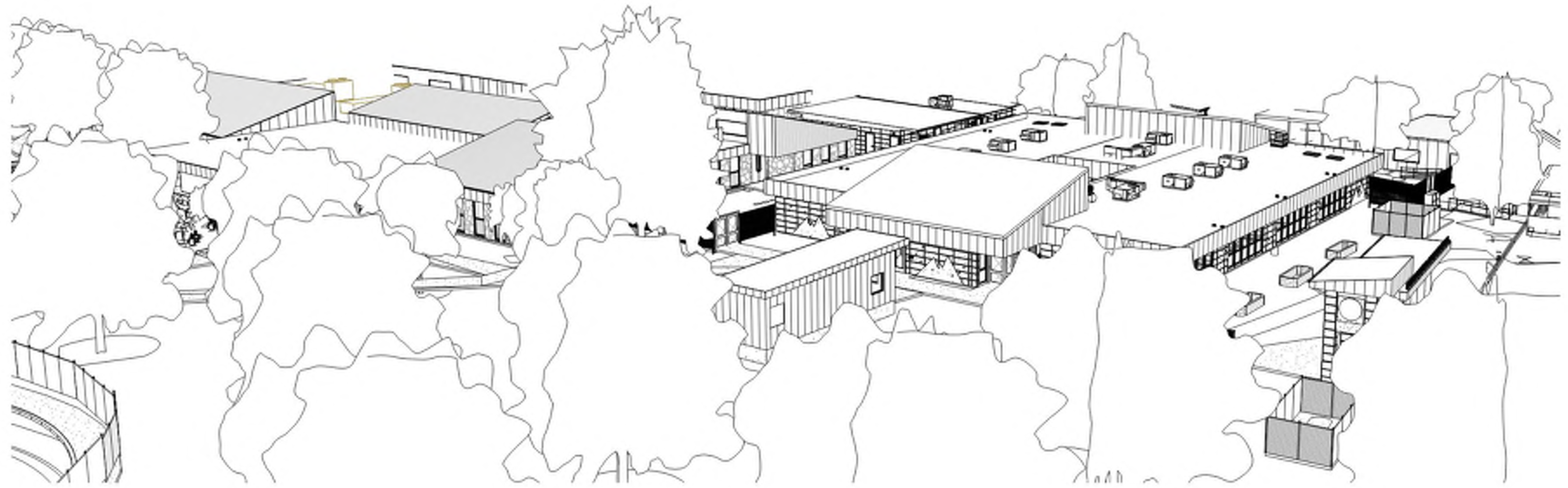
JUNIOR HIGH ENTRY FEATURE DETAILS - ADD ALTERNATE

A-009

10/10/2022 1:54:38 PM



1 BIRDS EYE MIDDLE SCHOOL SOUTHWEST VIEW

2 BIRDS EYE CAMPUS SOUTHWEST VIEW

12" = 1'-0"

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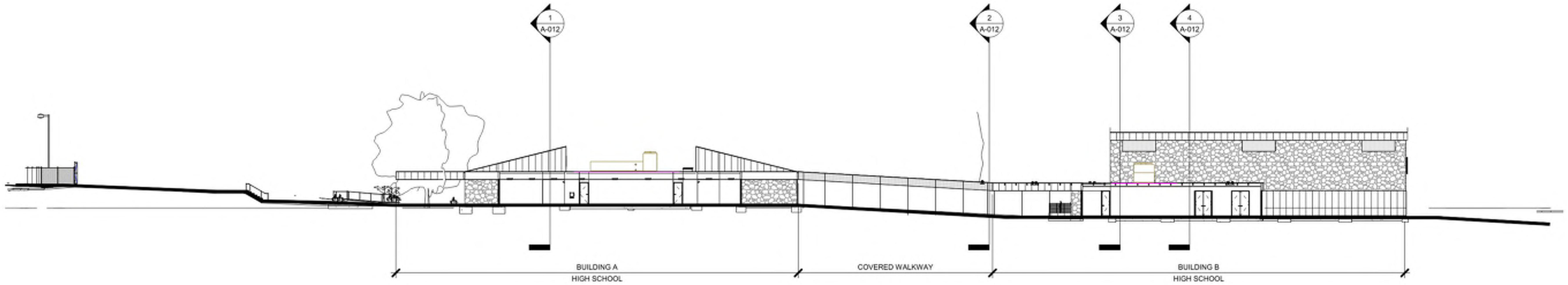
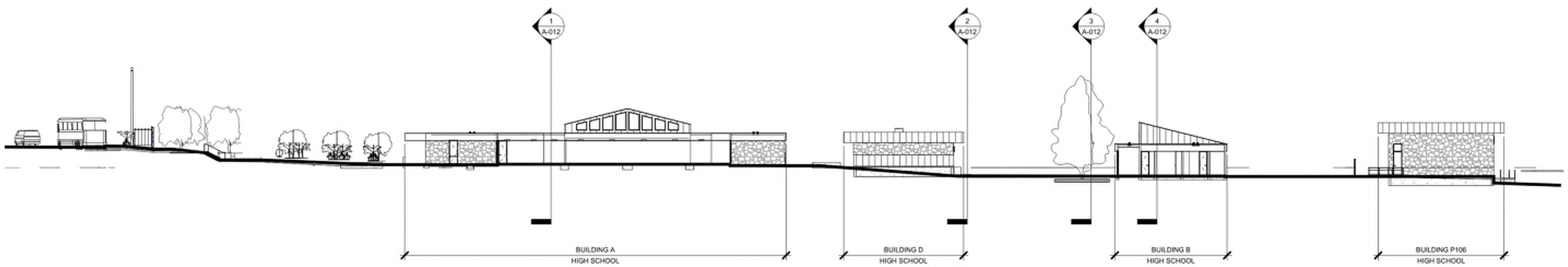
SITE 3D VIEWS

A-010

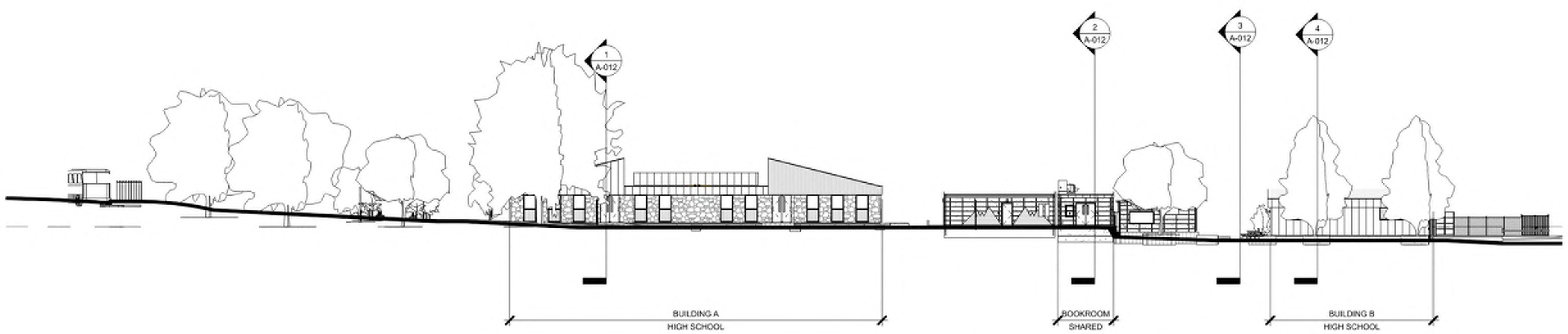
9/27/2022 9:22:21 AM



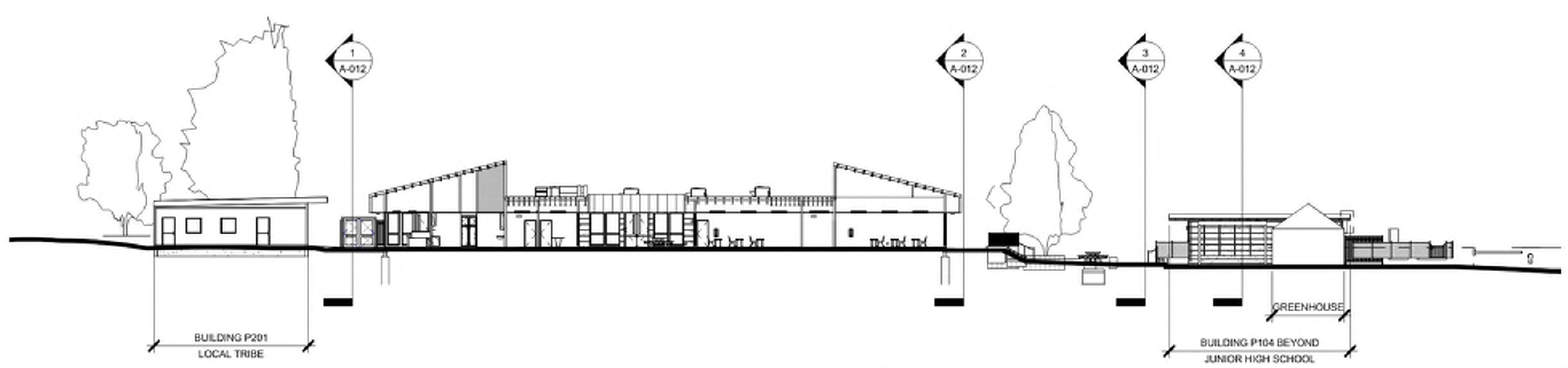
1 SITE SECTION HIGH SCHOOL THRU COVERED WALKWAY
1" = 20'-0"



2 SITE SECTION HIGH SCHOOL THRU FRONT WALK
1" = 20'-0"



3 SITE SECTION BETWEEN HIGH & JR HIGH SCHOOLS
1" = 20'-0"



4 SITE SECTION MIDDLE SCHOOL THRU JR HIGH COMMONS
1" = 20'-0"

NOTE: REFER TO A-003 FOR PLAN LOCATION CALLOUTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT
AUDREY V. STRATTON
NO. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

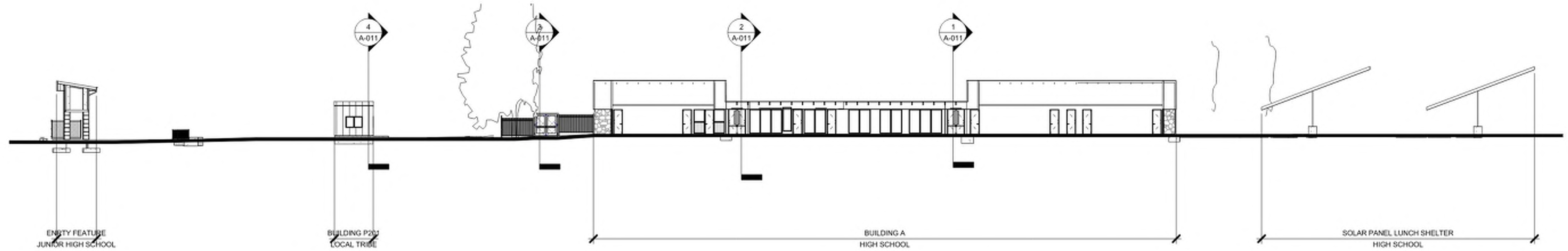
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

SITE SECTIONS AND ELEVATIONS - CAMPUS

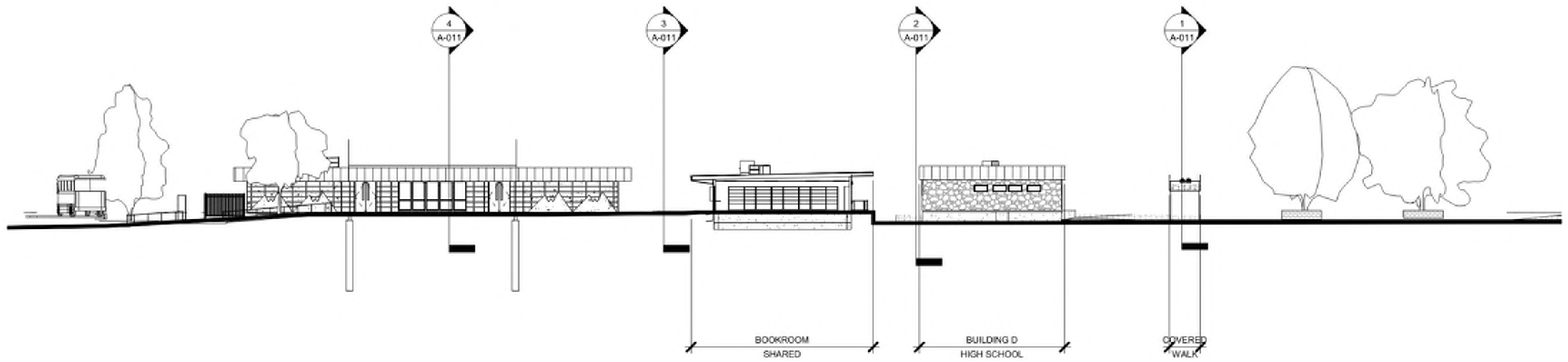
A-011

9/27/2022 9:22:30 AM



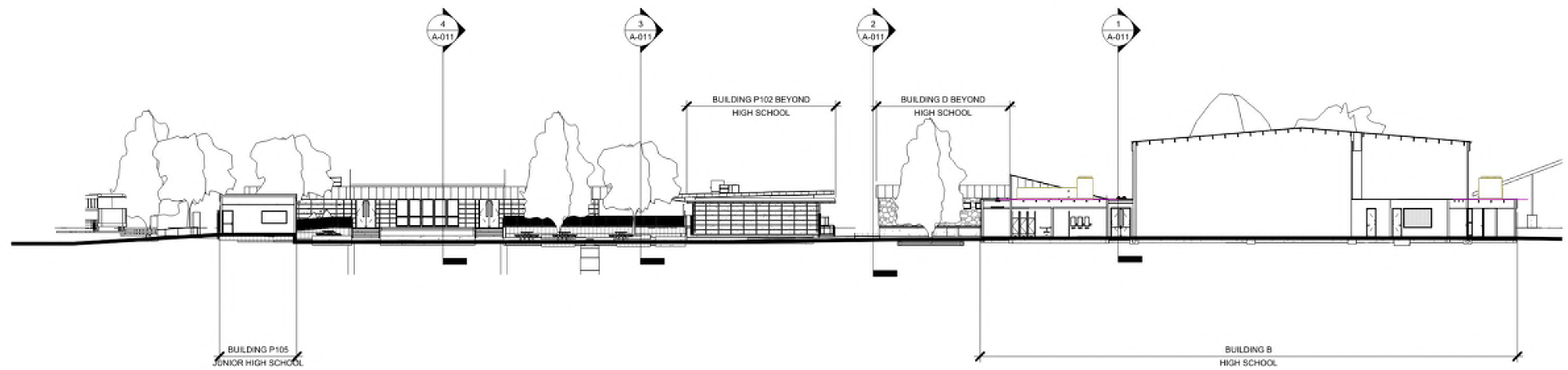
1 SITE SECTION THRU HIGH SCHOOL & JR HIGH SCHOOL ENTRY FEATURE

1" = 20'-0"



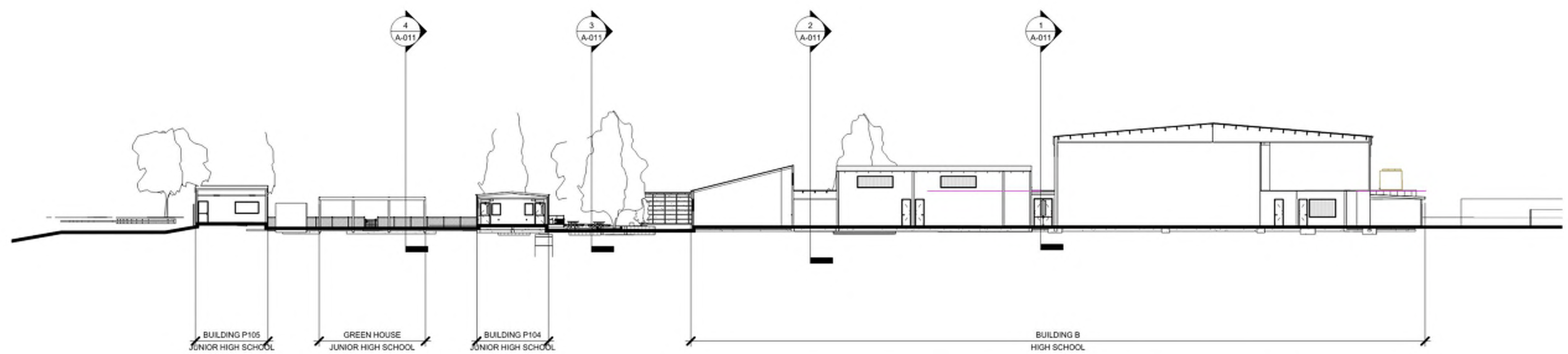
2 SITE SECTION THRU BOOKROOM

1" = 20'-0"



3 SITE SECTION THRU JR HIGH SCHOOL COMMON

1" = 20'-0"



4 SITE SECTION TRHU JR HIGH SCHOOL LUNCH COURTYARD

1" = 20'-0"

NOTE: REFER TO A-003 FOR PLAN LOCATION CALLOUTS

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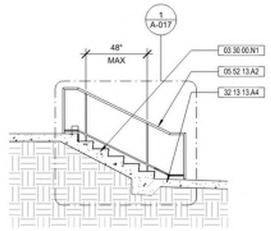
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

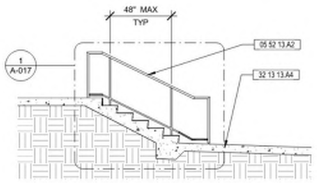
SITE SECTIONS AND ELEVATIONS - CAMPUS

A-012

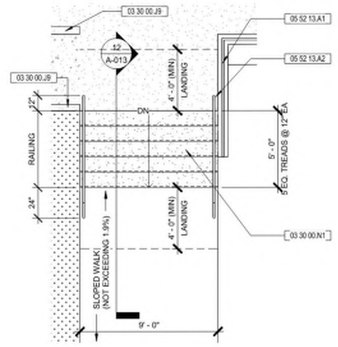
9/27/2022 9:22:41 AM



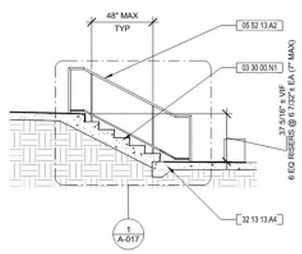
13 M S COMMONS STAIR 4 SECTION
1/4" = 1'-0"



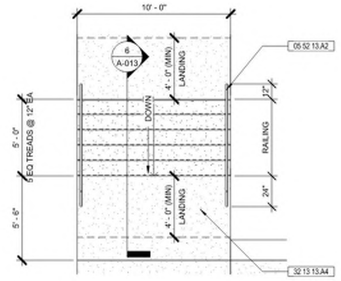
12 STAIR 3 SECTION
1/4" = 1'-0"



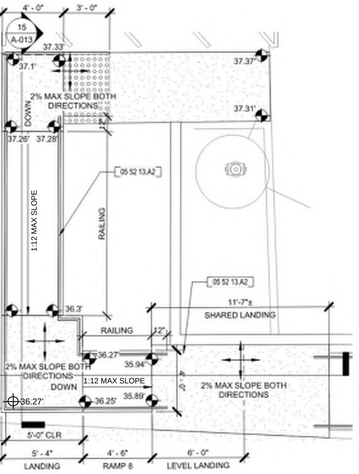
8 STAIR 3 @ M S COMMONS
1/4" = 1'-0"



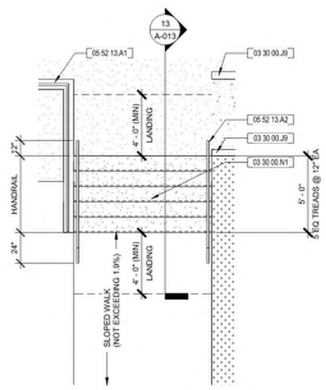
6 STAIR 1 SECTION
1/4" = 1'-0"



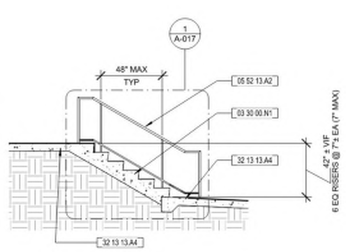
1 STAIR 1 @ FRONT
1/4" = 1'-0"



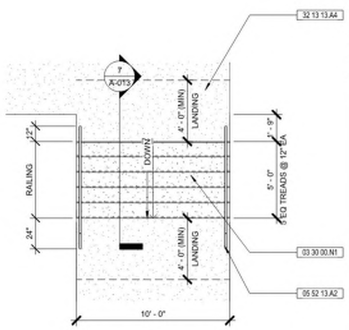
14 RAMP 7 & 8 @ STAFF PARKING
1/4" = 1'-0"



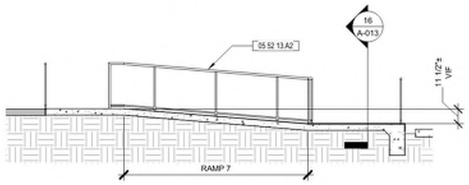
9 STAIR 4 @ M S COMMONS
1/4" = 1'-0"



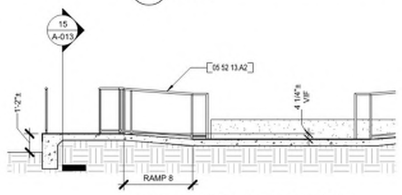
7 STAIR 2 SECTION
1/4" = 1'-0"



2 STAIR 2 @ FRONT
1/4" = 1'-0"



15 RAMP 7 SECTION
1/4" = 1'-0"



16 RAMP 8 SECTION
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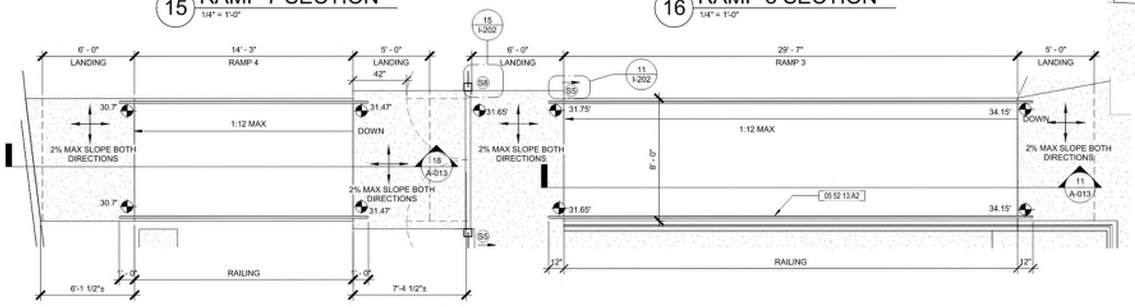
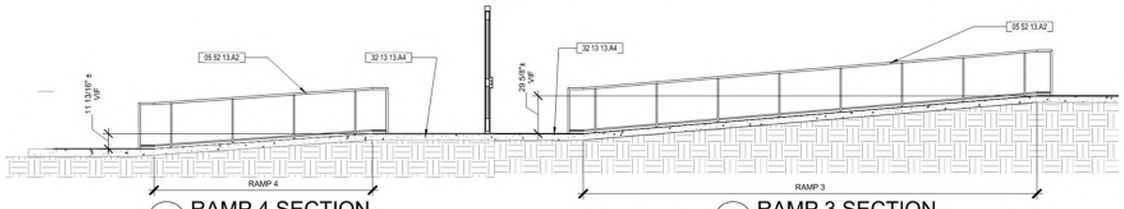


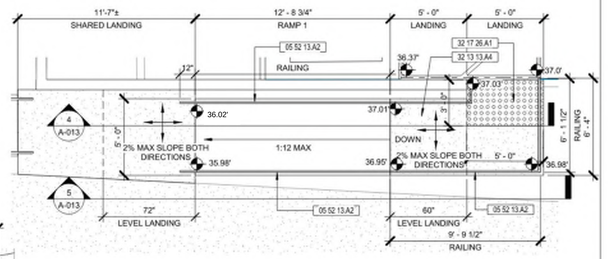
17 RAMP 4 @ MIDDLE SCHOOL TO PARKING LOT D
1/4" = 1'-0"

10 RAMP 3 @ MIDDLE SCHOOL TO PARKING LOT D
1/4" = 1'-0"

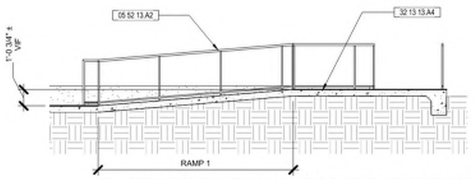


18 RAMP 4 SECTION
1/4" = 1'-0"

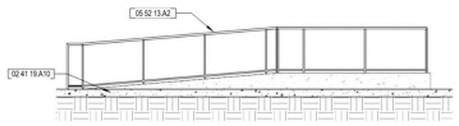
11 RAMP 3 SECTION
1/4" = 1'-0"



3 RAMP 1 @ STAFF PARKING
1/4" = 1'-0"



4 STAFF PARKING RAMP 1 SECTION
1/4" = 1'-0"



5 RAILING ELEVATION FOR RAMP 1
1/4" = 1'-0"

GENERAL NOTES

RAILINGS AND HANDRAILS: CBC SECTION 11B-505

1. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34" MINIMUM AND 38" MAXIMUM VERICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSTANT HEIGHT ABOVE SUCH SURFACES.
2. CLEARENCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES BE 1 1/2" MINIMUM. HANDRAIL MAY BE LOCATEDIN A RECESSIF THE RECESS IS 3" MAXIMUM DEEP AND PROVIDES 18" MINIMUM CLEAR SPACE ABOVE TOP OF HANDRAIL.
3. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTEDALONG THEIR TOPS OR SIDES. THE BOTTOMS OF THE HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTEDFOR MORE THAN 20% OF THEIR LENGTH. WHERE SUPPORTS ARE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2" MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.
4. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND 2" MAXIMUM.
5. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIMENSION OF 4" MINIMUM AND 6 1/2" MAXIMUM, AND A CROSS-SECTIONAL DIMENSION OF 2 1/4" MAXIMUM.
6. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
7. HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.
8. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH CBC SECTION 11B-505.10. SUCH EXTENSIONS ARE NOT REQUIRED FOR CONTINUOUS HANDRAILS AT INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPS.
9. THE ORIENTATION OF AT LEAST ONE HANDRAIL SHALL BE IN THE DIRECTION OF THE STAIR RUN, PERPENDICULAR TO THE DIRECTION OF THE STAIR NOSING, AND SHALL NOT REDUCE THE MINIMUM REQUIRED WIDTH OF THE STAIR. CBC SECTION 11B-505.2.1.
10. A 2" MINIMUM HIGH CURB OR BARRIER SHALL BE PROVIDED TO PREVENT THE PASSAGE OF A 4" DIAMETER SHERE ROLLING OFF THE EDGES OF THE RAMP OR LANDING SURFACE. SUCH A CURB OR BARRIER SHALL BE CONTINUOUS AND UNINTERRUPTED ALONG THE LENGTH OF A RAMP. CBC SECTION 11B-405.9.2.

KEYNOTES

02 41 19.A10	EXISTING SIDEWALK TO REMAIN, TYP.
03 30 00.J9	6" WIDE X 6" HIGH CONCRETE CURB
03 30 00.N1	7X11 CAST-IN-PLACE CONCRETE STAIR - REFER TO 13/S1.2
05 52 13.A1	METAL GUARD RAILING, REFER TO 12/A-017
05 52 13.A2	METAL HAND RAILING, REFER TO 1&5/A-017
32 13 13.A4	5" CAST-IN-PLACE SLAB W/ METAL MESH REINFORCEMENT IF OVER 8' IN BOTH DIRECTIONS, REFER TO CONCRETE PAVING NOTES C-01
32 17 26.A1	TACTILE WARNING SURFACE REFER TO 3/A-016

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OF WOUNDED
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SAN DIEGO, CA 92101
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www.davyarchitecture.com

SDVOSB CVE

LICENSED ARCHITECT ROBERT V. STRATTON No. C28089 REN. 08/31/23 STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
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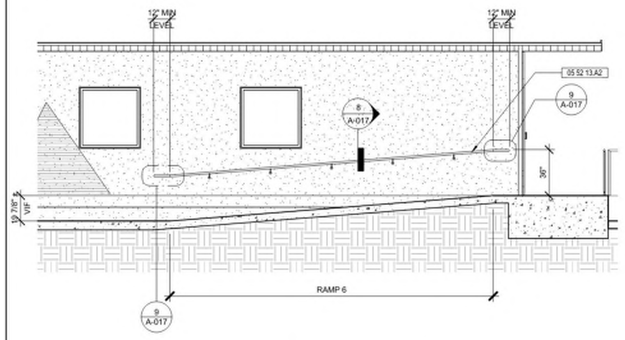
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

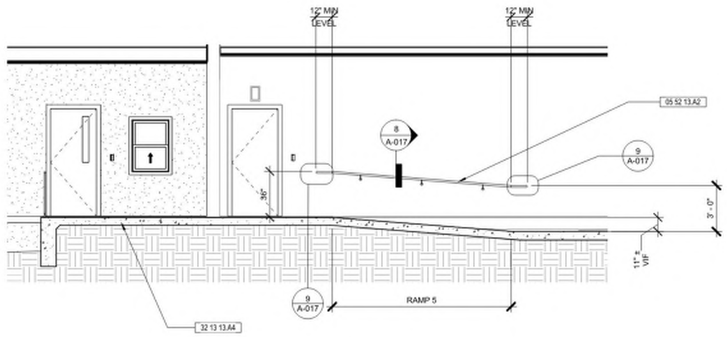
SITE DETAIL PLANS & SECTION/ ELEVATIONS - STAIRS & RAMPS

A-013

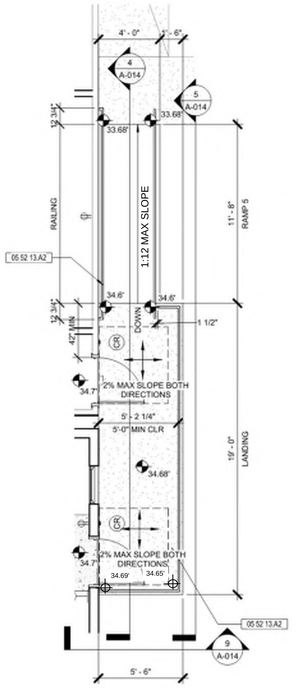
10/17/2022 8:32:54 AM



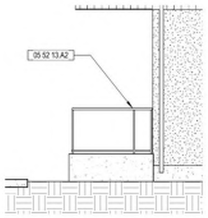
8 P104 RAMP 6 SECTION
1/4" = 1'-0"



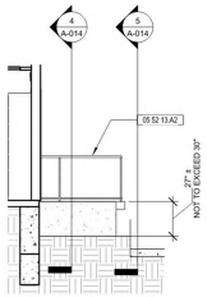
4 P101 & BOOKROOM RAMP 5 SECTION
1/4" = 1'-0"



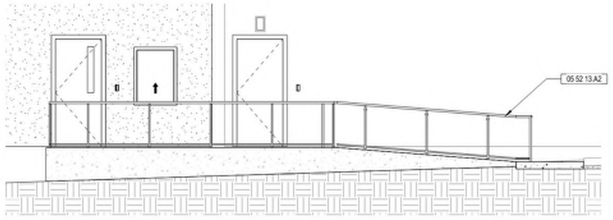
1 RAMP 5 @ BUILDING P101 & BOOKROOM
1/4" = 1'-0"



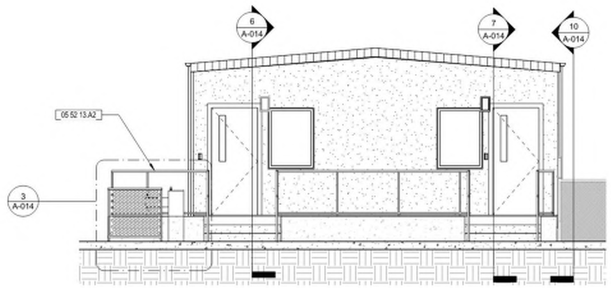
10 P104 RAILING ELEVATION
1/4" = 1'-0"



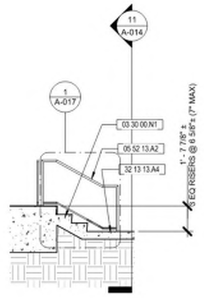
9 BOOKROOM RAILING ELEVATION
1/4" = 1'-0"



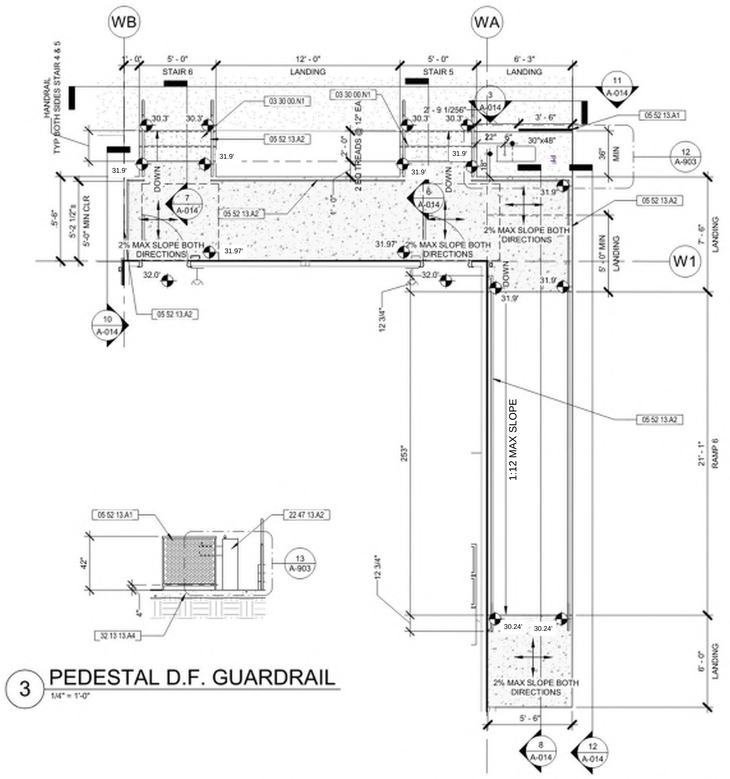
5 RAILING ELEVATION FOR RAMP 5
1/4" = 1'-0"



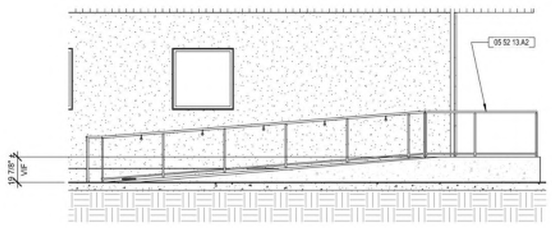
11 RAILING ELEVATION FOR P104 LANDING
1/4" = 1'-0"



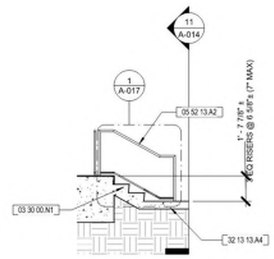
6 STAIR 5 SECTION
1/4" = 1'-0"



2 ENLARGED PLAN - LANDING @ BUILDING P104
1/4" = 1'-0"



12 RAILING ELEVATION FOR RAMP 6
1/4" = 1'-0"



7 STAIR 6 SECTION
1/4" = 1'-0"

3 PEDESTAL D.F. GUARDRAIL
1/4" = 1'-0"

GENERAL NOTES

RAILINGS AND HANDRAILS: CBC SECTION 11B-505

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2. CLEARENCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES BE 1 1/2" MINIMUM. HANDRAIL MAY BE LOCATEDIN A RECESSIF THE RECESS IS 3" MAXIMUM DEEP AND PROVIDES 18" MINIMUM CLEAR SPACE ABOVE TOP OF HANDRAIL.
3. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTEDALONG THEIR TOPS OR SIDES. THE BOTTOMS OF THE HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTEDFOR MORE THAN 20% OF THEIR LENGTH. WHERE SUPPORTS ARE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2" MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.
4. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND 2" MAXIMUM.
5. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIMENSION OF 4" MINIMUM AND 6 1/2" MAXIMUM, AND A CROSS-SECTIONAL DIMENSION OF 2 1/4" MAXIMUM.
6. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
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10. A 2" MINIMUM HIGH CURB OR BARRIER SHALL BE PROVIDED TO PREVENT THE PASSAGE OF A 4" DIAMETER SHERE ROLLING OFF THE EDGES OF THE RAMP OR LANDING SURFACE. SUCH A CURB OR BARRIER SHALL BE CONTINUOUS AND UNINTERRUPTED ALONG THE LENGTH OF A RAMP. CBC SECTION 11B-405.9.2.

KEYNOTES

03 30 00.N1	7X11 CAST-IN-PLACE CONCRETE STAIR - REFER TO 13/S1.2
05 52 13.A1	METAL GUARD RAILING, REFER TO 12/A-017
05 52 13.A2	METAL HAND RAILING, REFER TO 1&5/A-017
22 47 13.A2	PEDESTAL DRINKING FOUNTAIN
32 13 13.A4	5" CAST-IN-PLACE SLAB W/ METAL MESH REINFORCEMENT IF OVER 8' IN BOTH DIRECTIONS, REFER TO CONCRETE PAVING NOTES C-01

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DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

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DISABLED VETERAN • EMPLOYER OF WOUNDED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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HENRY L. STRATTON
LICENSED ARCHITECT
NO. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

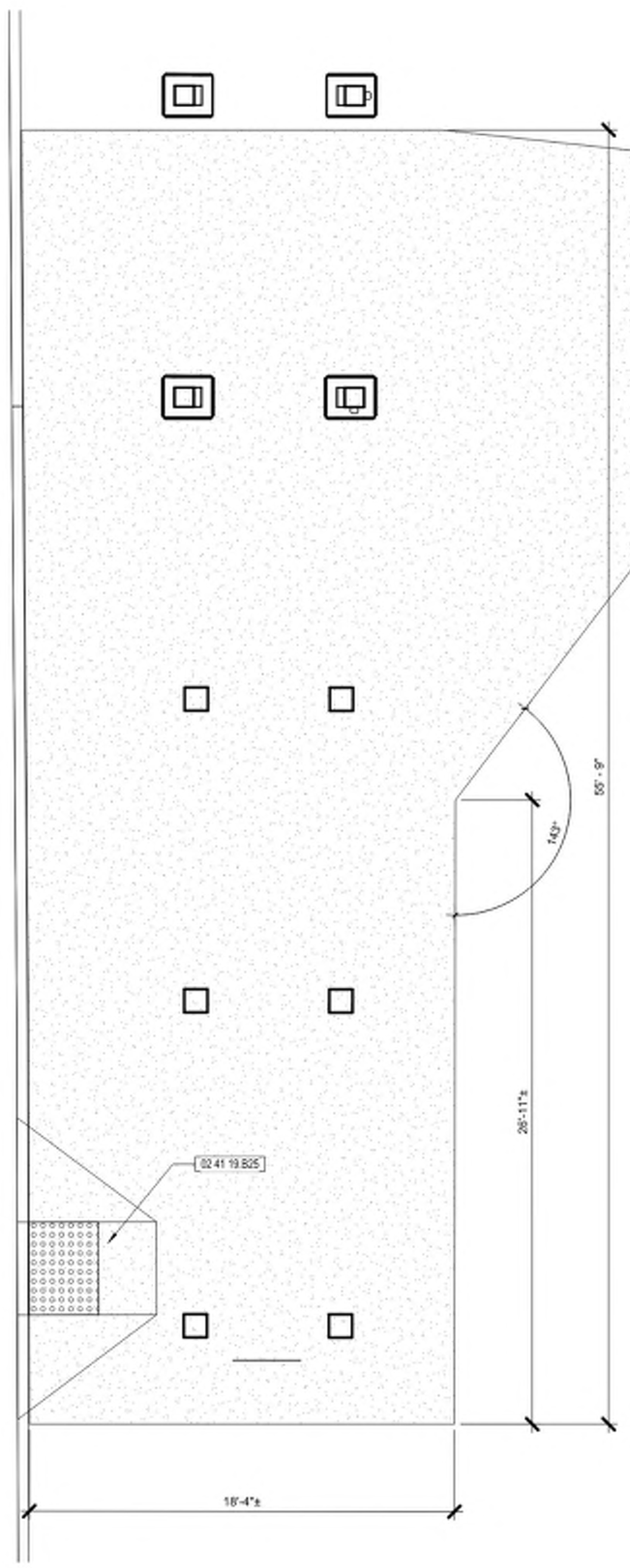
MARK	DATE	DESCRIPTION
–	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

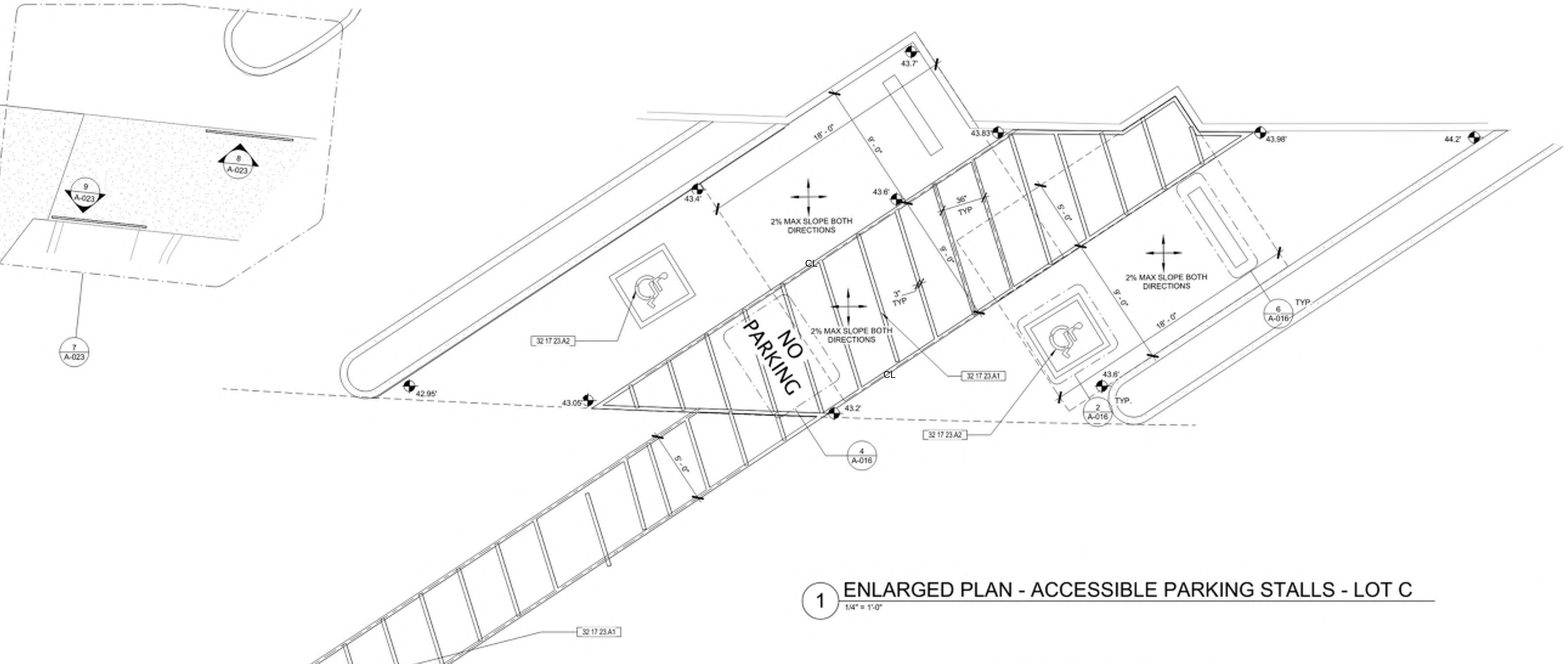
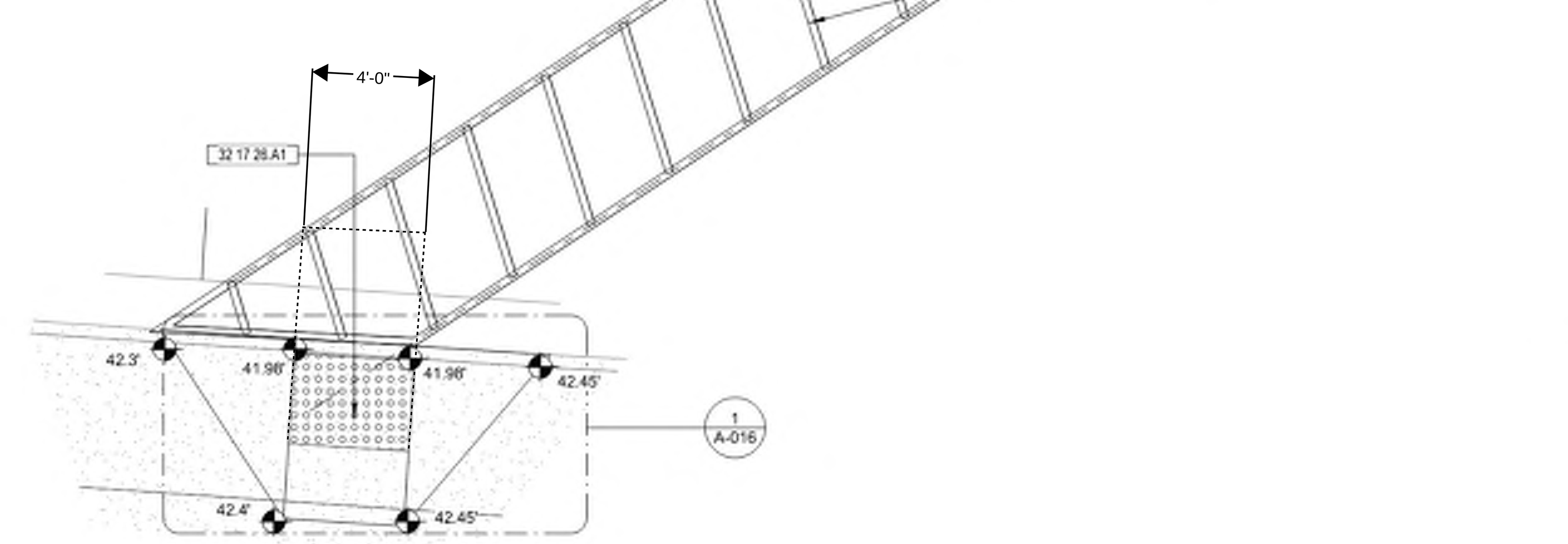
SITE DETAIL PLANS & SECTION/ELEVATIONS - STAIRS & RAMPS

A-014

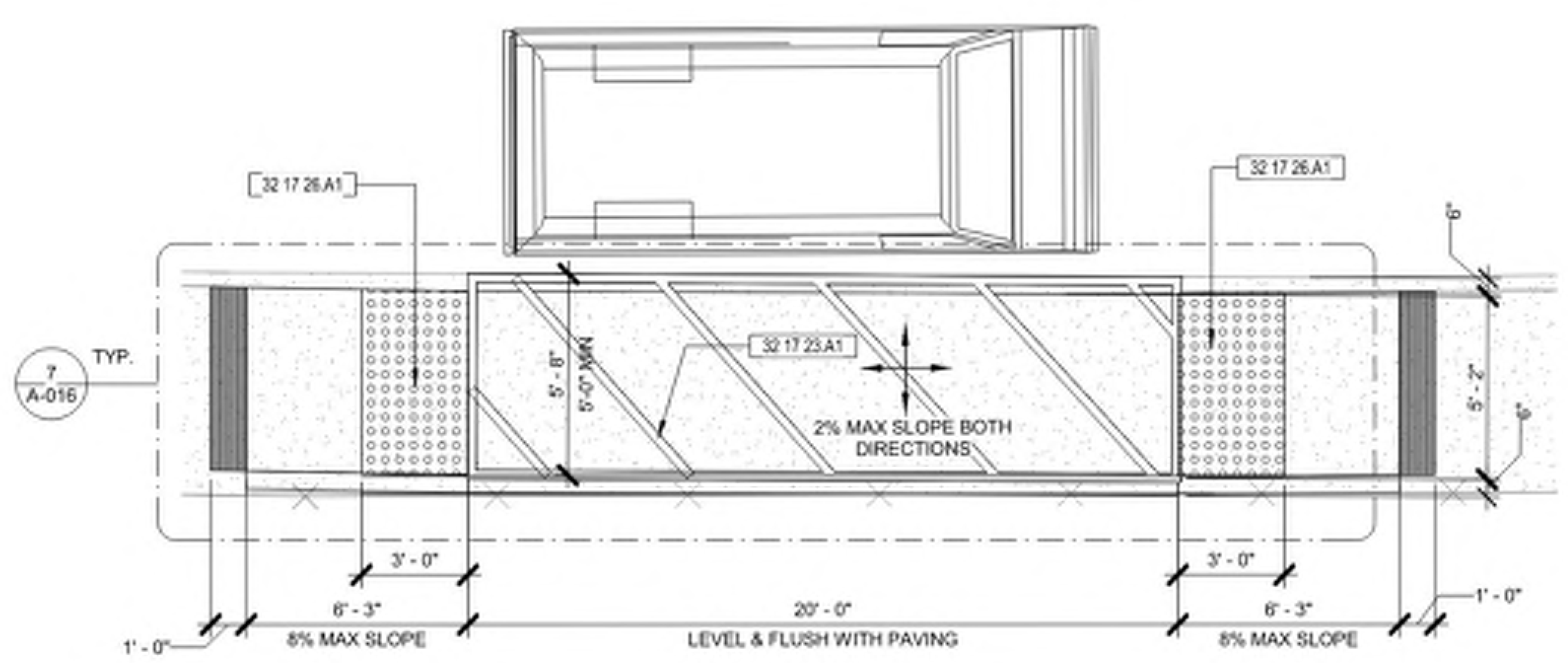
10/10/2022 1:55:10 PM



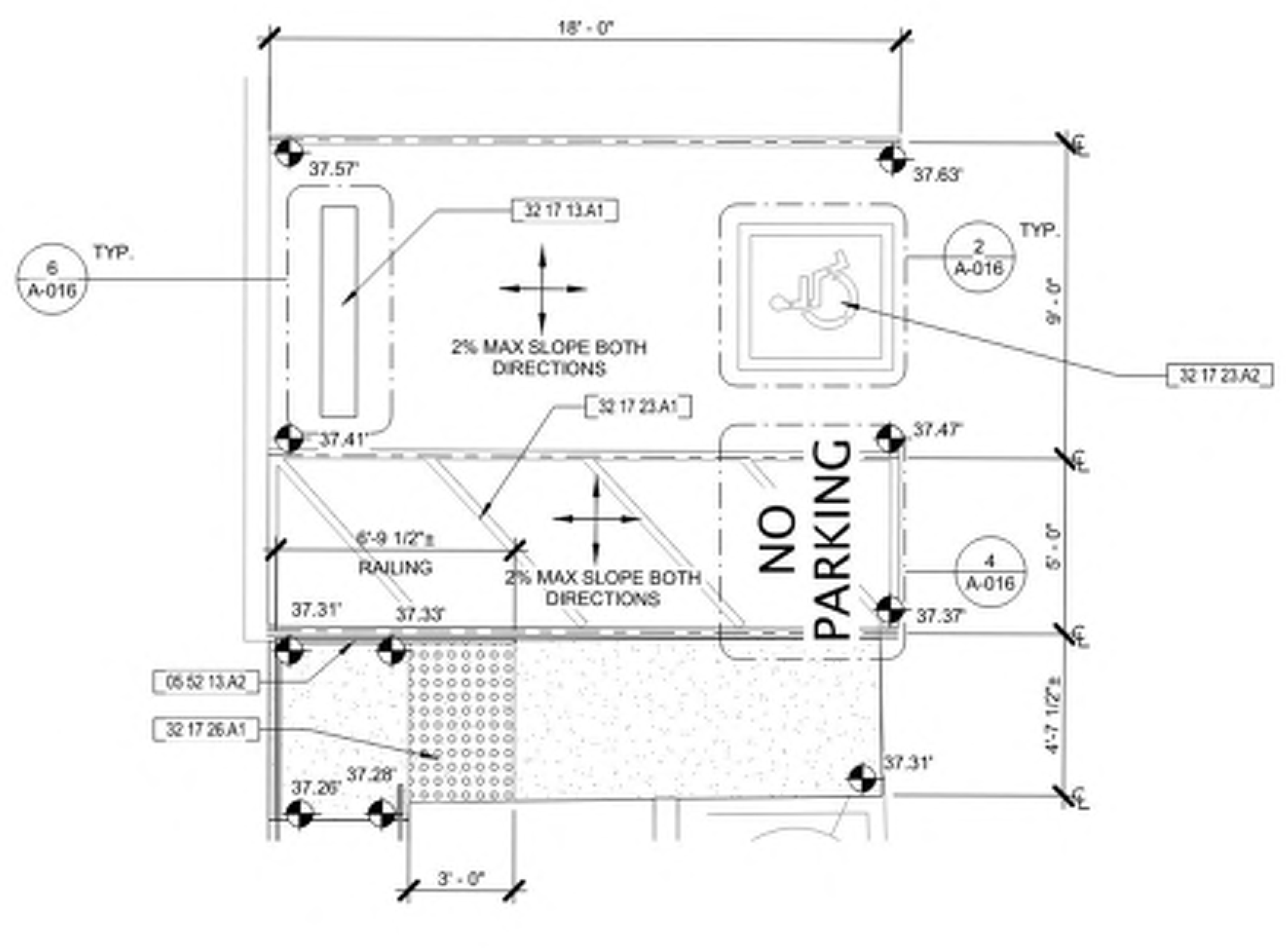
5 ENLARGED MIDDLE SCHOOL ENTRY PLAN
1/4" = 1'-0"

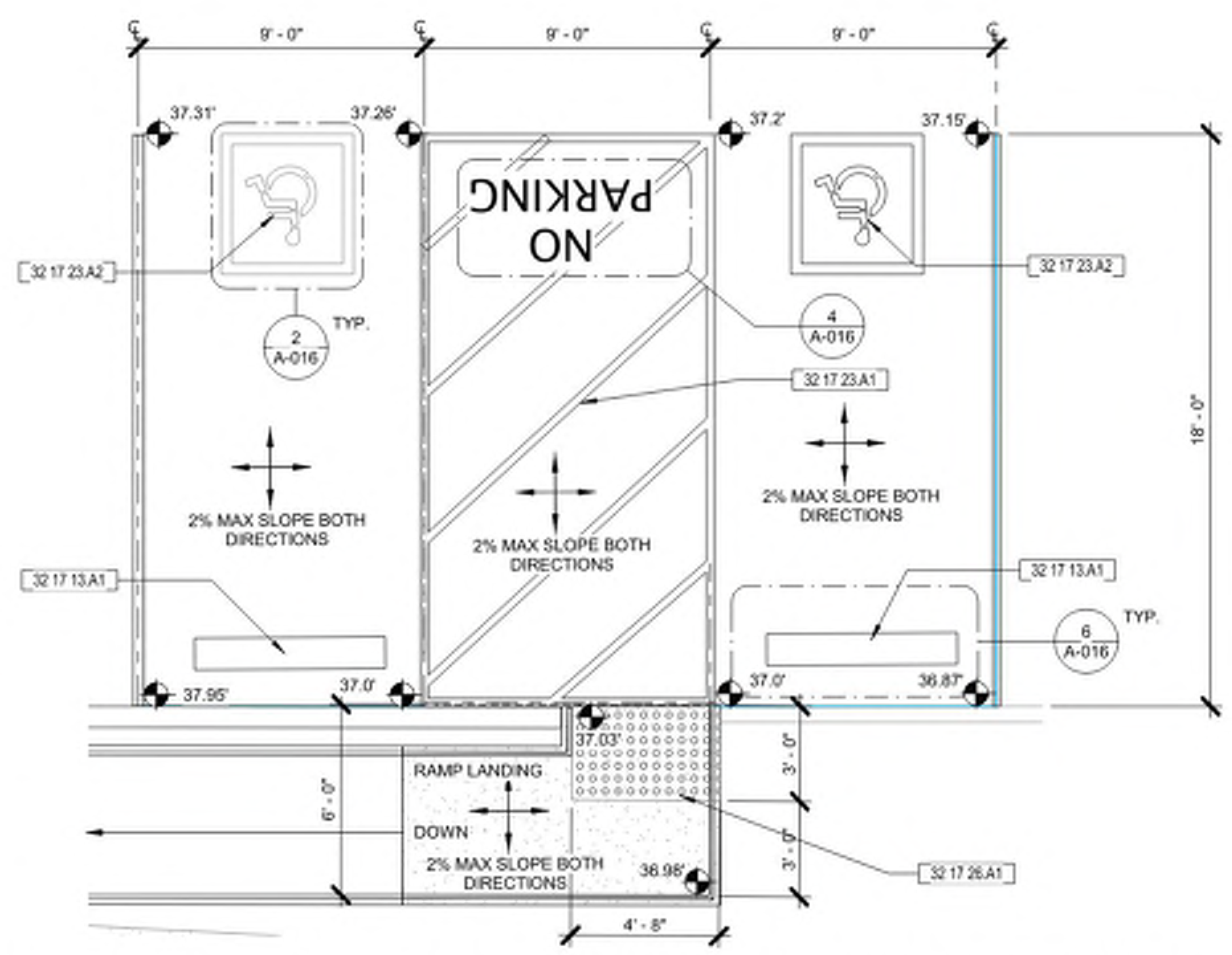
1 ENLARGED PLAN - ACCESSIBLE PARKING STALLS - LOT C
1/4" = 1'-0"



2 ENLARGED PLAN - LOADING ZONE - LOT C
1/4" = 1'-0"



4 ENLARGED PLAN - EXISTING ACCESSIBLE PARKING STALL - LOT B
1/4" = 1'-0"



3 ENLARGED PLAN - ACCESSIBLE PARKING STALLS - LOT B
1/4" = 1'-0"

KEYNOTES

02 41 19.B25	EXISTING CURB CUT W/ DETECTABLE WARNING SURFACE TO REMAIN
05 52 13.A2	METAL HAND RAILING, REFER TO 1&5/A-017
32 17 13.A1	PRE-CAST WHEEL STOP, REFER TO 6/A-016
32 17 23.A1	3" WIDE BLUE PAINT BOARDER STRIPING WITH 3" WHITE DIAGONAL STRIPING ON A/C PAVING OR BLUE DIAGONAL STRIPING ON CONCRETE PAVING
32 17 23.A2	PAINTED ADA ACCESSIBLE PAVEMENT SYMBOL, REFER TO 2/A-016
32 17 26.A1	TACTILE WARNING SURFACE REFER TO 3/A-016

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Mountain Empire Unified School District

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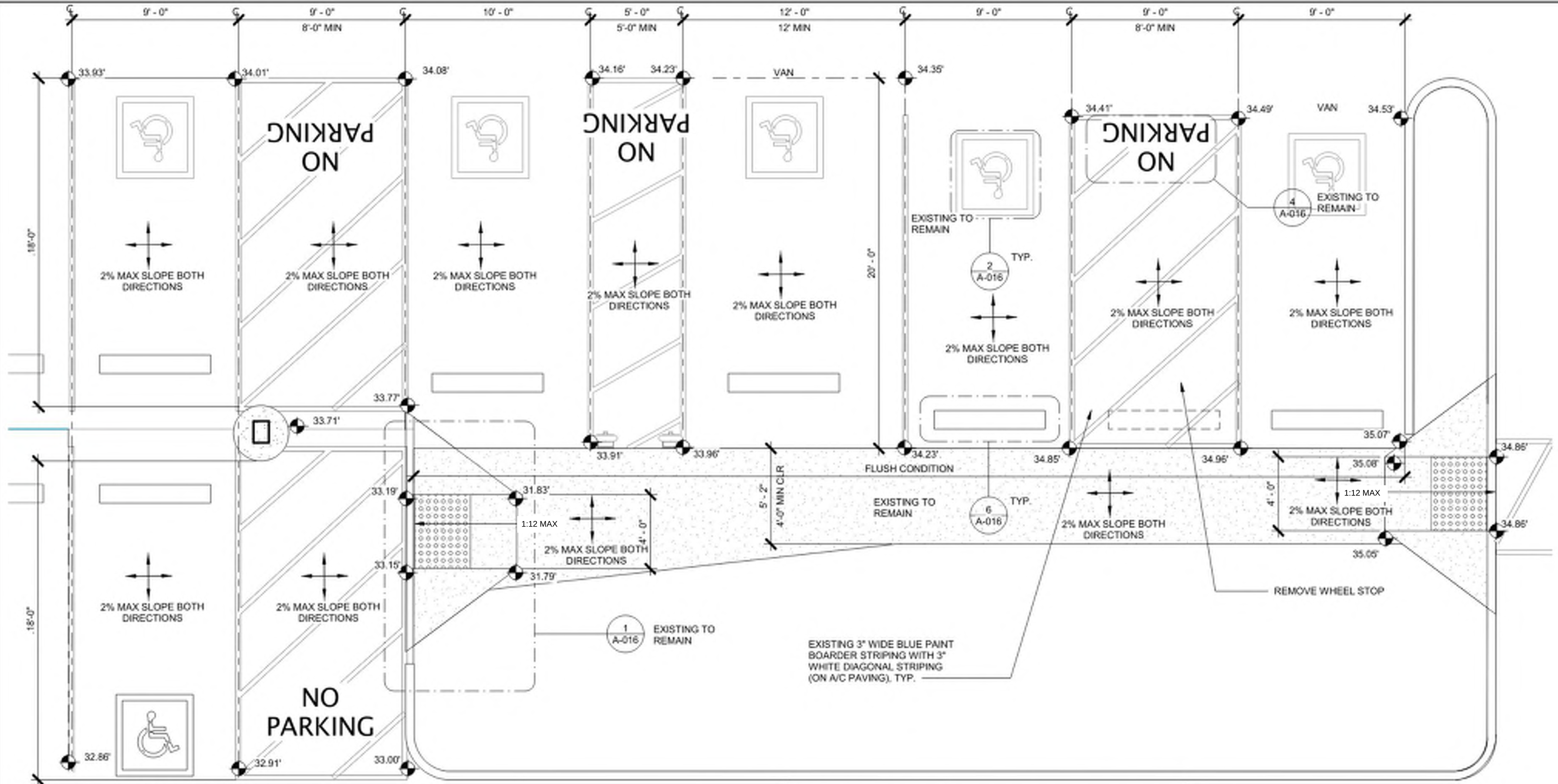
SITE DETAIL PLANS - ACCESSIBLE PARKING

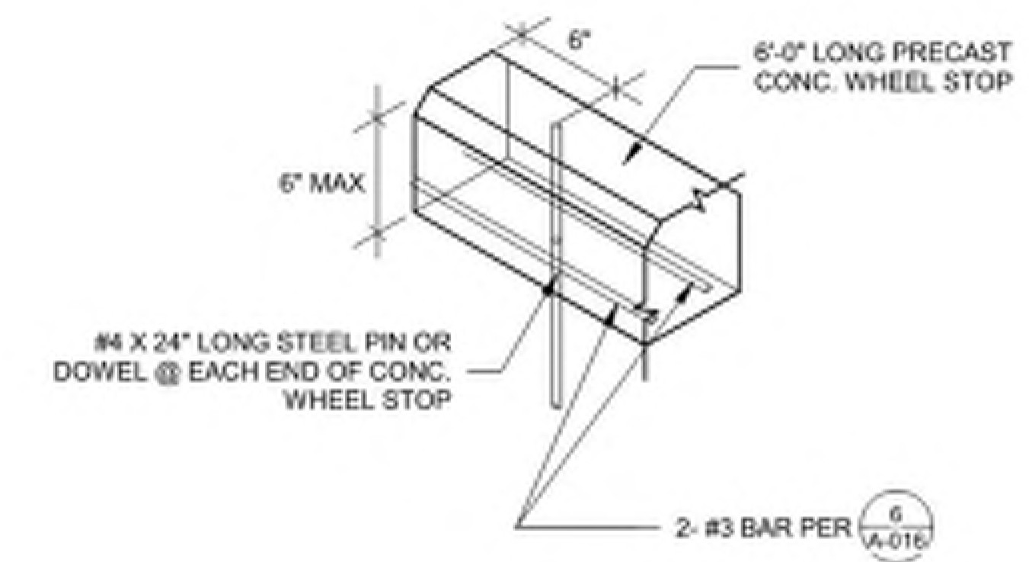
A-015

10/17/2022 8:32:08 AM



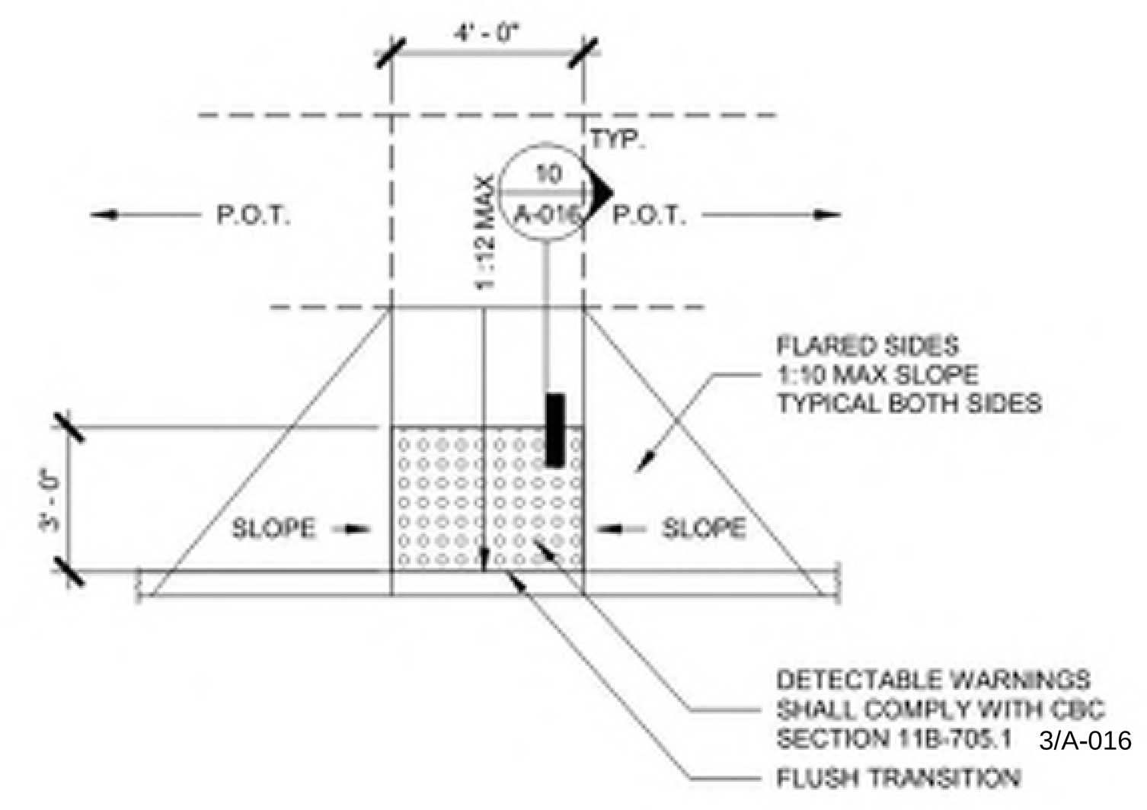
ALL ELEMENTS IN THIS VIEW ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE

9 ENLARGED PLAN - EXISTING ACCESSIBLE PARKING STALLS - LOT D (04-112557 & 04-120879)
1/4" = 1'-0"



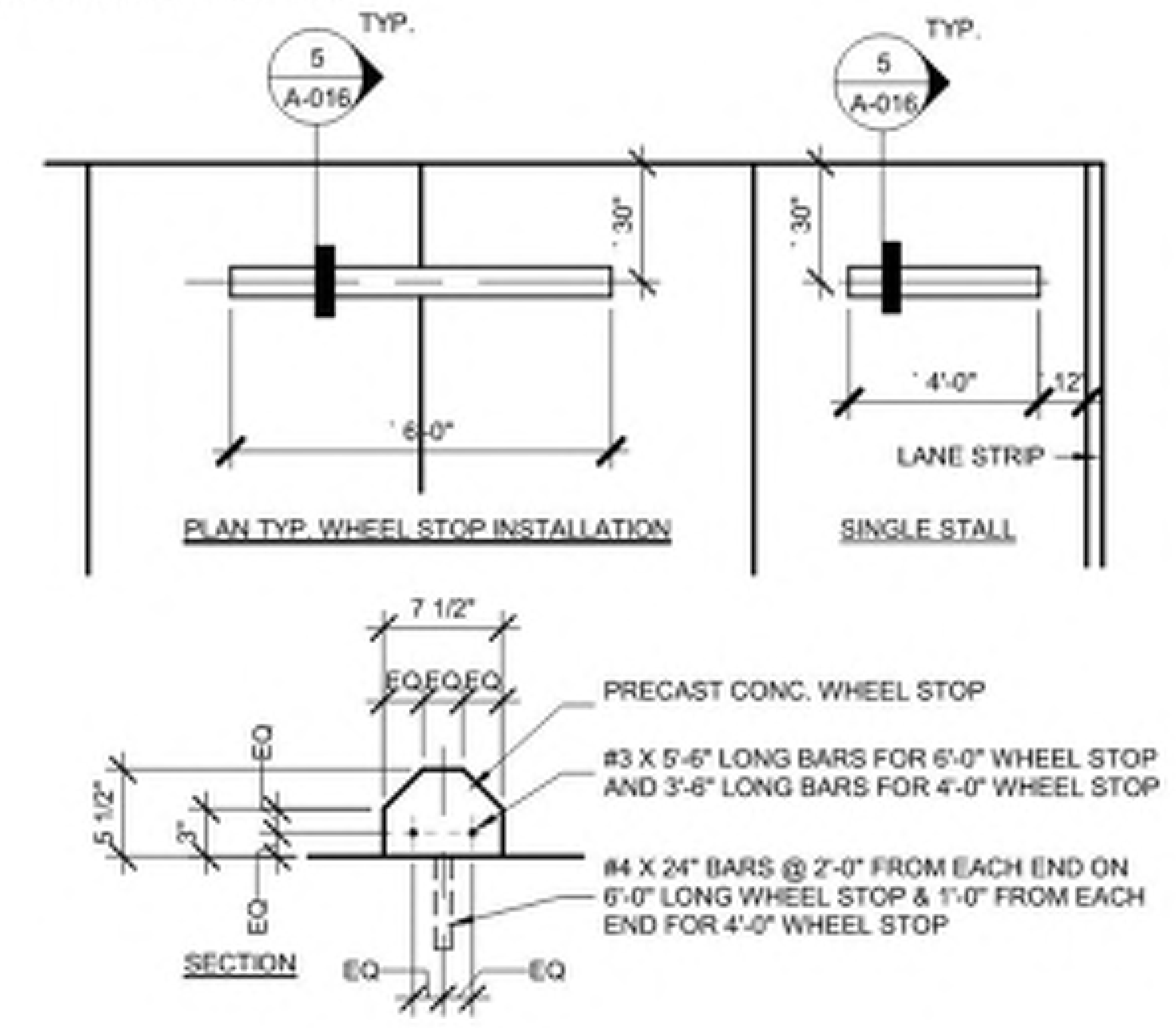
NOTE:
WHEEL STOPS ARE REQUIRED AT ALL WHEELCHAIR ACCESSIBLE STALLS & SINGLE PARKING STALLS

5 WHEEL STOP
N.T.S.

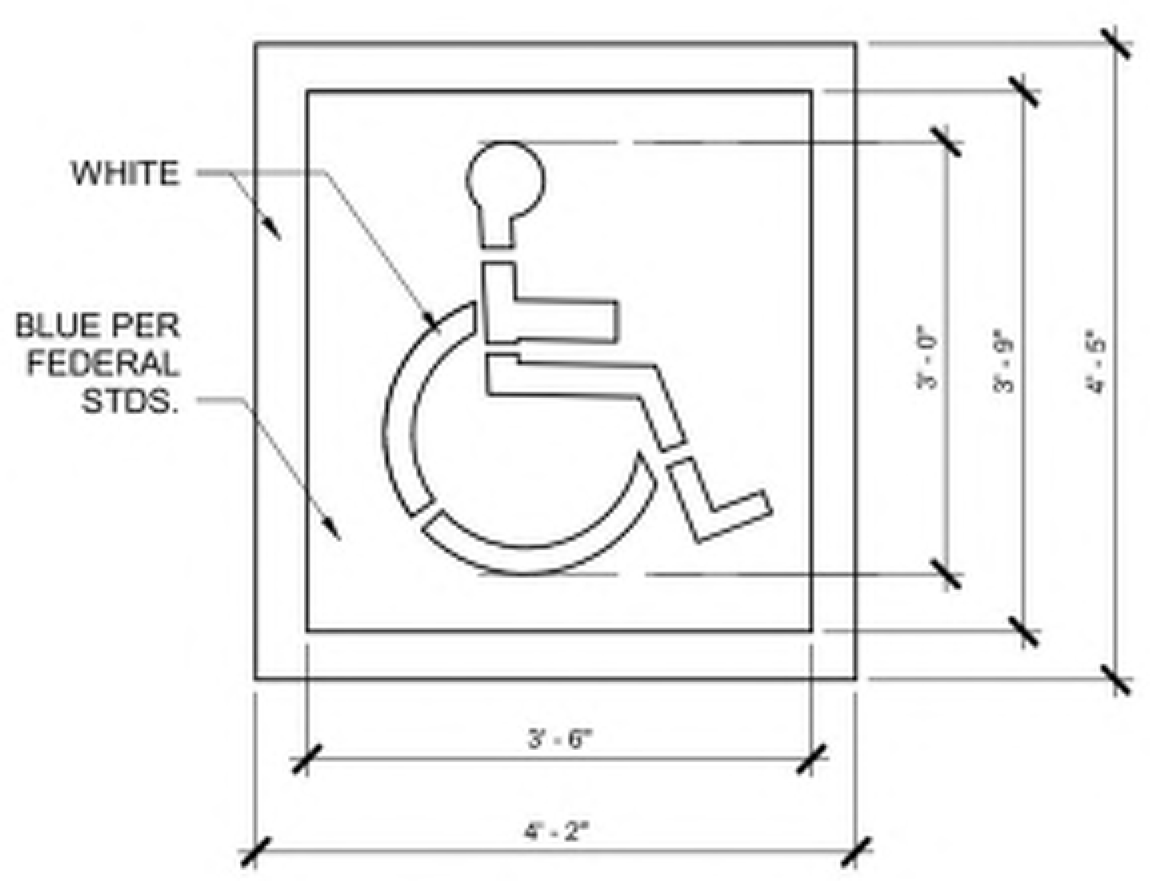


1 ADA/CBC CURB CUT
N.T.S.

SEE 5 / A-016 FOR ADDITIONAL INFORMATION

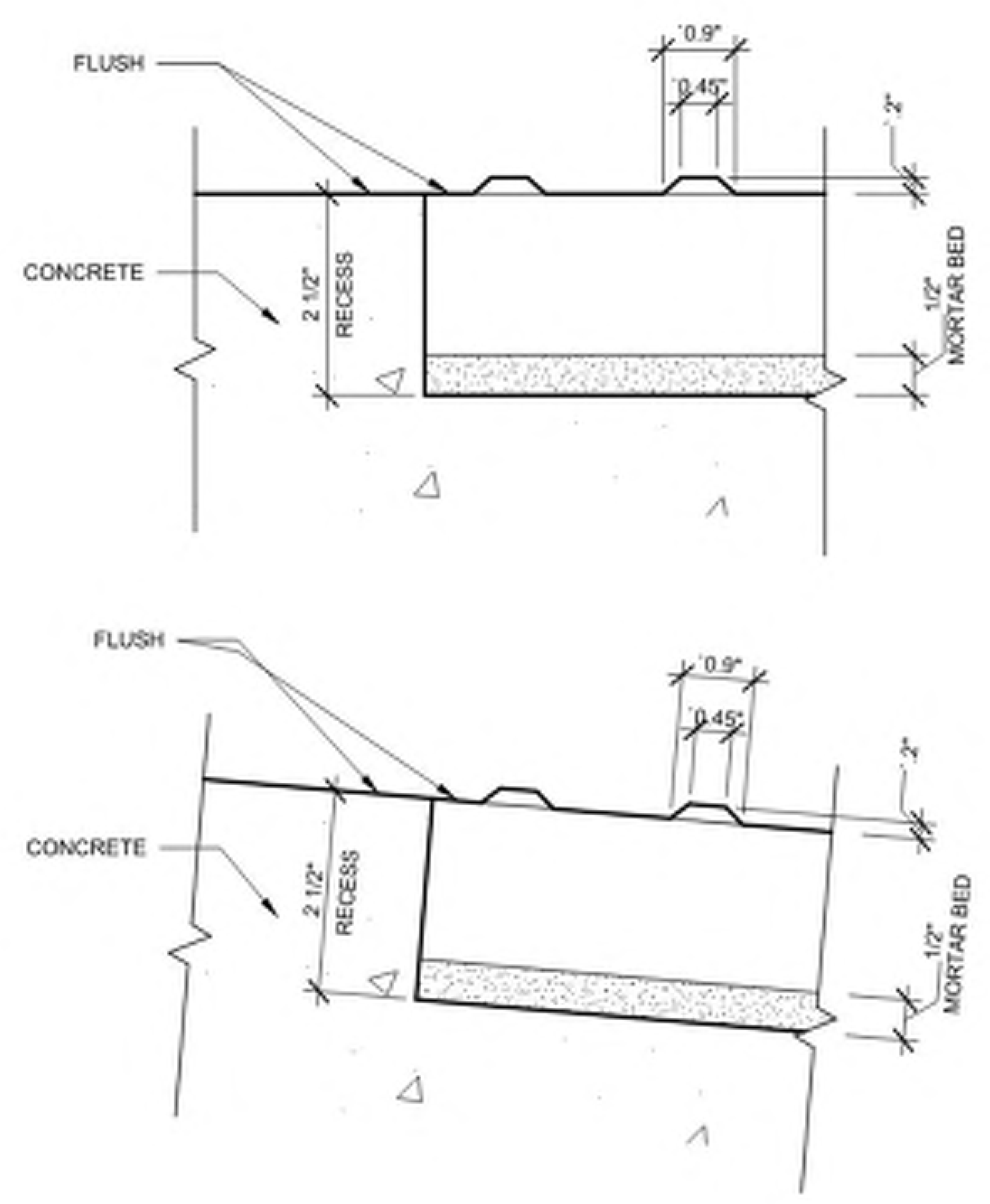


6 WHEEL STOP PLAN
N.T.S.



NOTE:
INTERNATION SYMBOL OF ACCESSIBILTY TO MATCH COLOR AND PROPORTIONS SHOWN IN FIG. 11B-703.7.2.1, TYP.

2 ADA/CBC PARKING SIGN
N.T.S.



DECTECTABLE WARNING SURFACE MUST BE ALIGNED IN THE SAME PLANE AS THE CURB RAMP SURFACE.

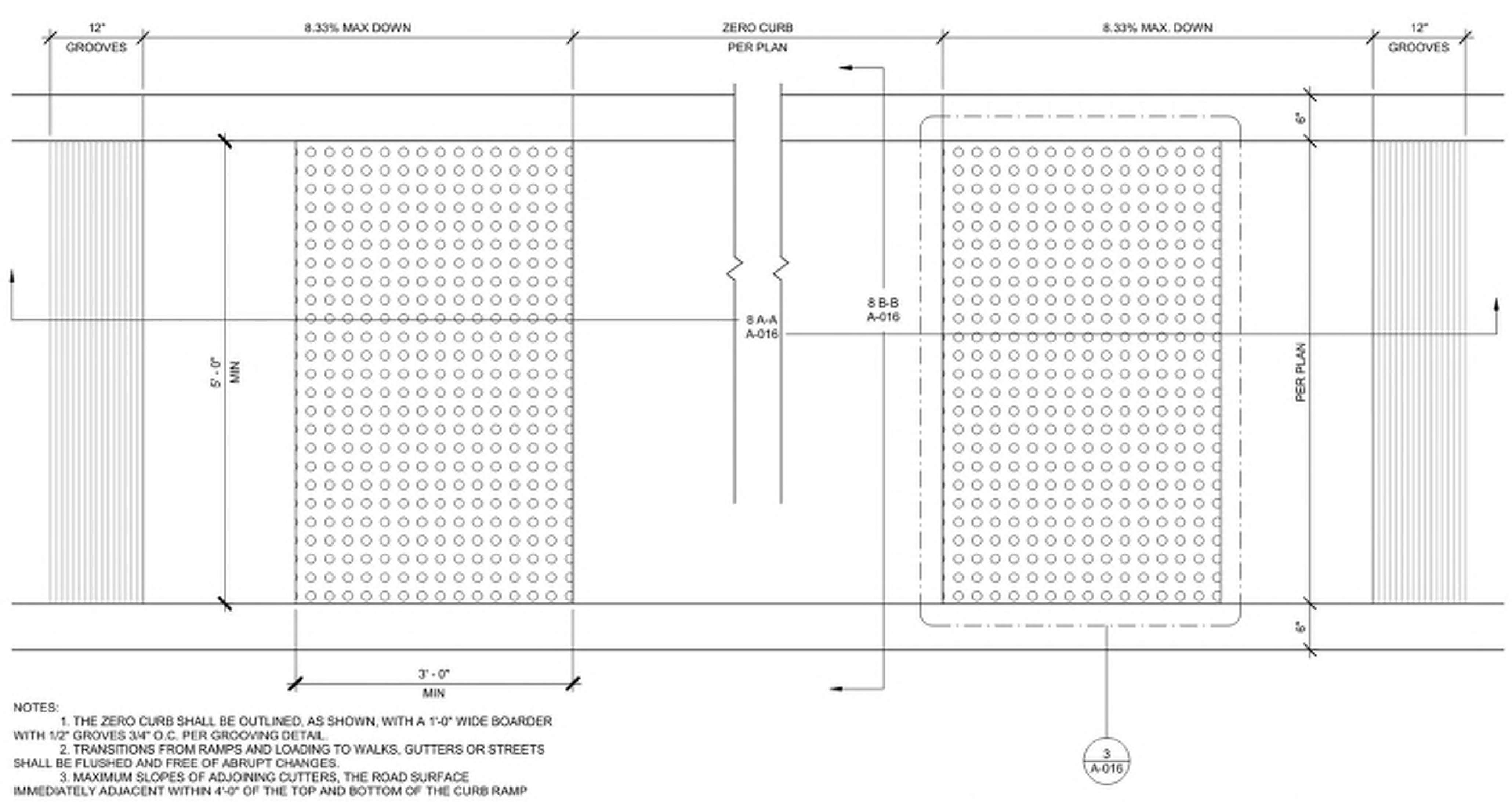
11B-406.5.4. FLOOR OR GROUND SURFACES OF CURB RAMPS AND BLENDED TRANSITIONS SHALL COMPLY WITRH SECTION 11B-405.4

11B-405.4 FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH SECTION 11B-302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS

FLUSH CONDITION @ GRADE BREAKS:

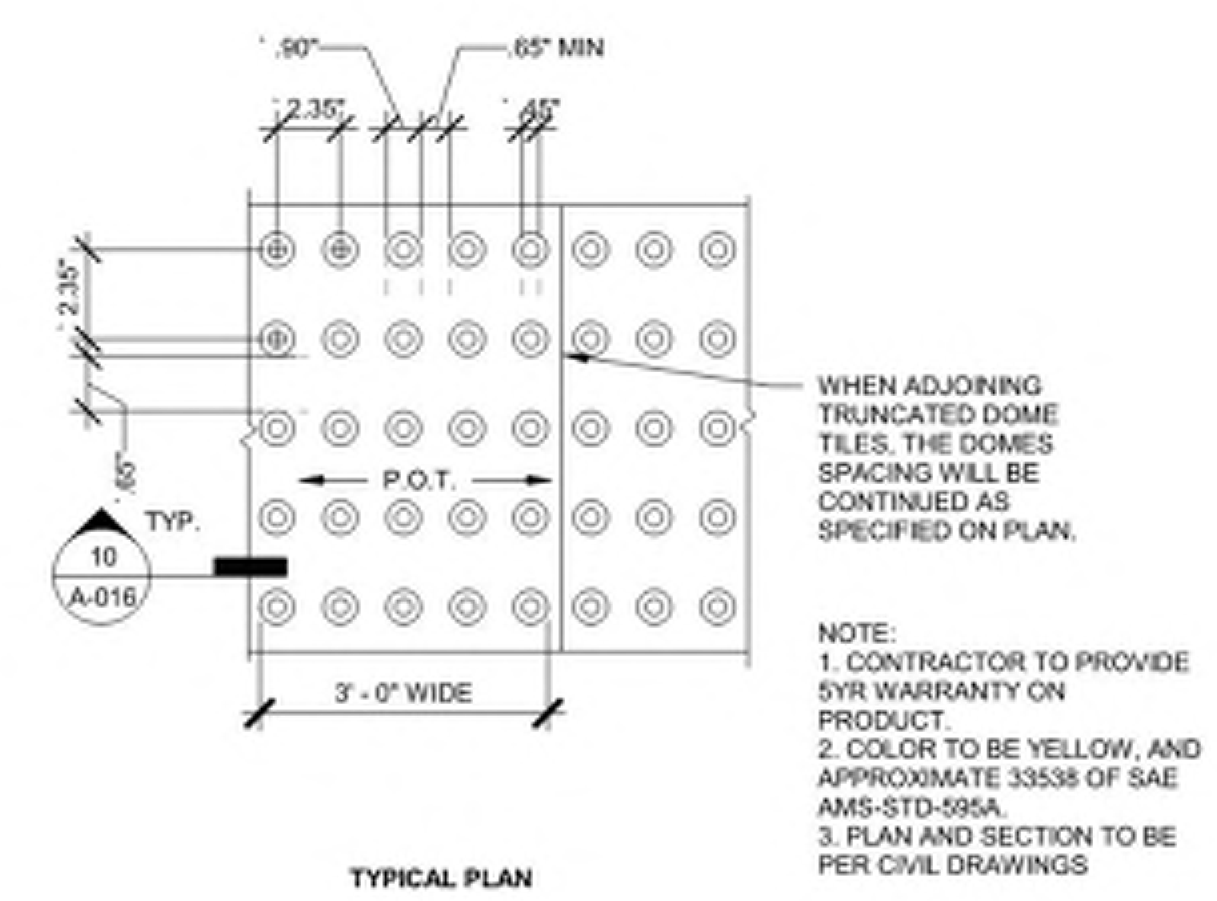
11B-406.5.6 GRADE BREAKS AT THE TOP & BOTTOM OF CURB RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACES. SURFACE SLOPES THAT MEET AT BRADE BREAKS SHALL BE FLUSH

10 TRUNCATED DOMES SECTION
6" = 1'-0"



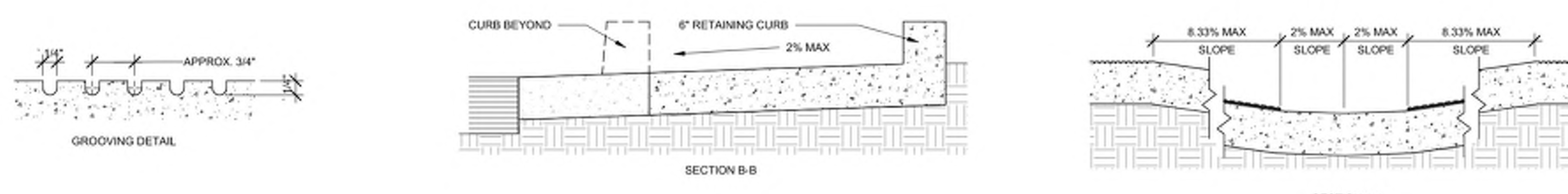
NOTES:
1. THE ZERO CURB SHALL BE OUTLINED, AS SHOWN, WITH A 1'-0" WIDE BOARDER WITH 1/2" GROVES 3/4" O.C. PER GROOVING DETAIL.
2. TRANSITIONS FROM RAMPS AND LOADING TO WALKS, GUTTERS OR STREETS SHALL BE FLUSHED AND FREE OF ABRUPT CHANGES.
3. MAXIMUM SLOPES OF ADJOINING CUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT WITHIN 4'-0" OF THE TOP AND BOTTOM OF THE CURB RAMP

7 ACCESSIBLE LOADING ZONE CURB
1" = 1'-0"



NOTE:
1. CONTRACTOR TO PROVIDE 5YR WARRANTY ON PRODUCT.
2. COLOR TO BE YELLOW, AND APPROXIMATE 33538 OF SAE AMS-STD-595A.
3. PLAN AND SECTION TO BE PER CIVIL DRAWINGS

3 TRUNCATED DOMES - PLAN
1/2" = 1'-0"



8 LOADING ZONE SECTIONS
1" = 1'-0"

NOTE: WHERE GRAPHICS ARE AT STRIPED AREA, STRIPING SHALL NOT CROSS OVER LETTERING

4 PARKING STALL LETTERING
1" = 1'-0"

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Mountain Empire Unified School District

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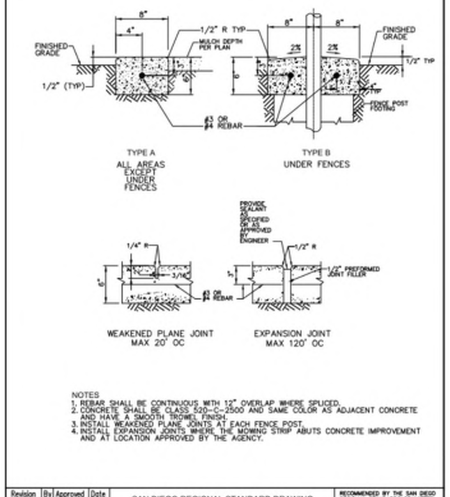
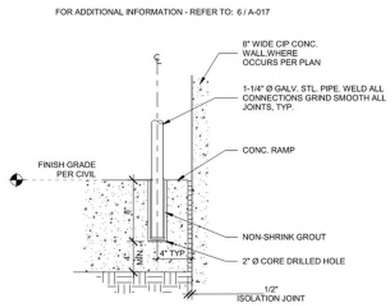
SITE DETAILS - ACCESS

A-016

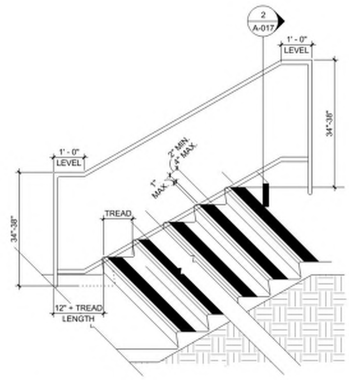
10/11/2022 1:02:17 PM



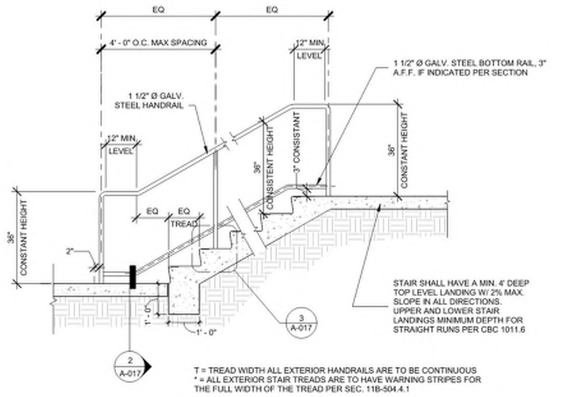
10 MOW STRIP
12" = 1'-0"



7 GUARDRAIL SLEEVE
1 1/2" = 1'-0"



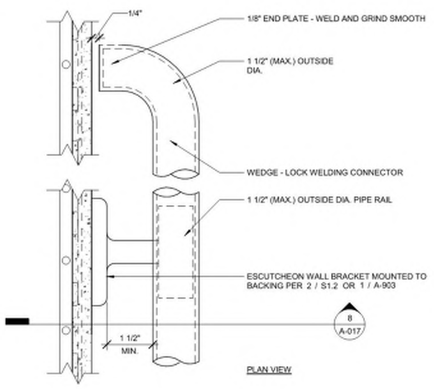
4 HANDRAIL EXTENSIONS & WARNING STRIPING
1/2" = 1'-0"



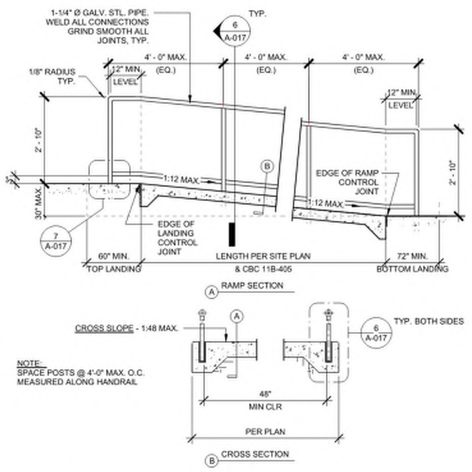
FOR STAIR REBAR, REER TO 13/S1.2

1 STAIR @ EXTERIOR
1/2" = 1'-0"

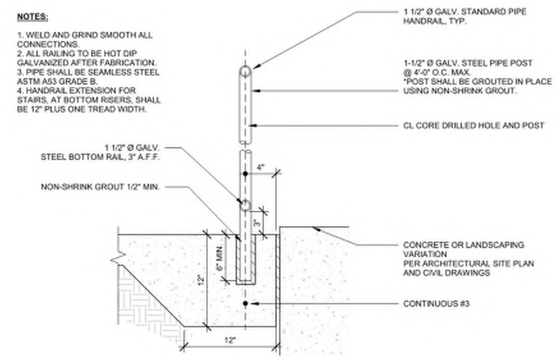
11 PERFORATED PANEL GUARDRAIL ELEVATION
1 1/2" = 1'-0"



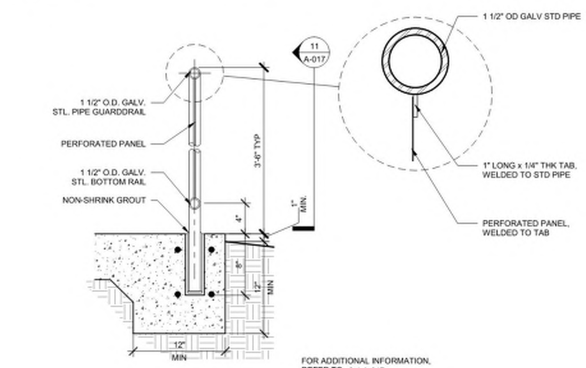
8 HANDRAIL AT WALL SECTION
3" = 1'-0"



5 ACCESSIBLE SITE RAMP DETAIL
N.T.S.

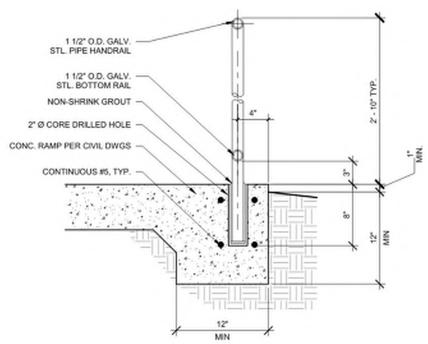


2 HANDRAIL @ RAMP/STAIR OR FLAT SURFACE
1 1/2" = 1'-0"

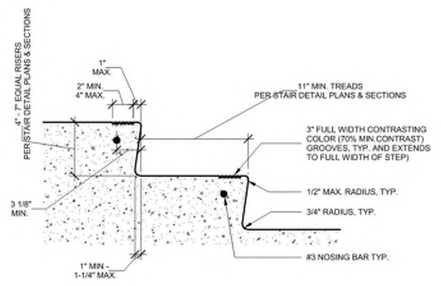


12 GUARDRAIL w/ PERF PANEL
1 1/2" = 1'-0"

9 SITE HANDRAIL AT WALL PLAN
6" = 1'-0"



6 HANDRAIL @ SITE RAMP
1 1/2" = 1'-0"



3 CONCRETE STAIR NOSING
1 1/2" = 1'-0"

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1053 TENTH AVENUE
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LICENSED ARCHITECT
JAMES V. DAVY
No. C28089
REN: 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

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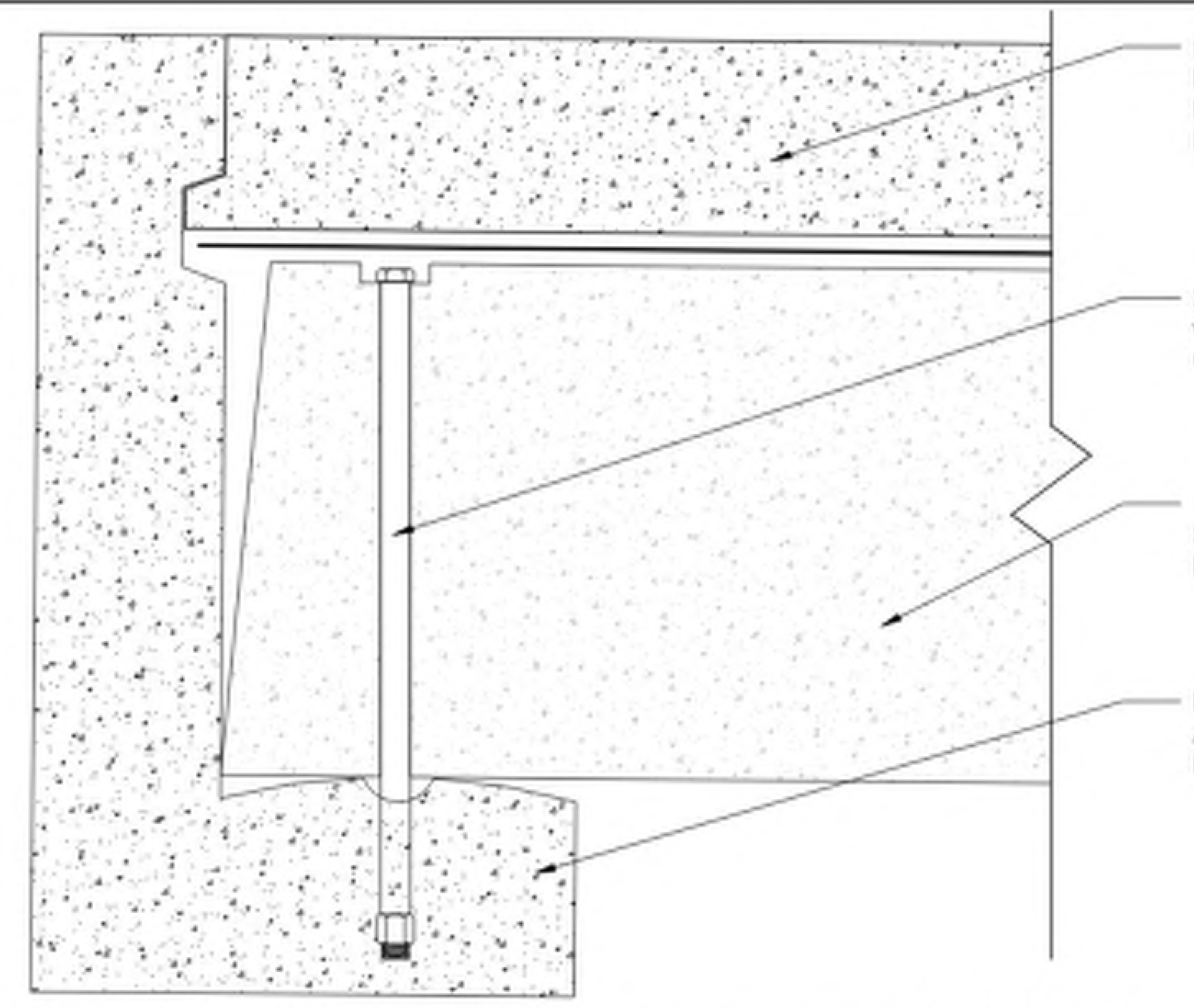
CHECKED BY: JM / AS

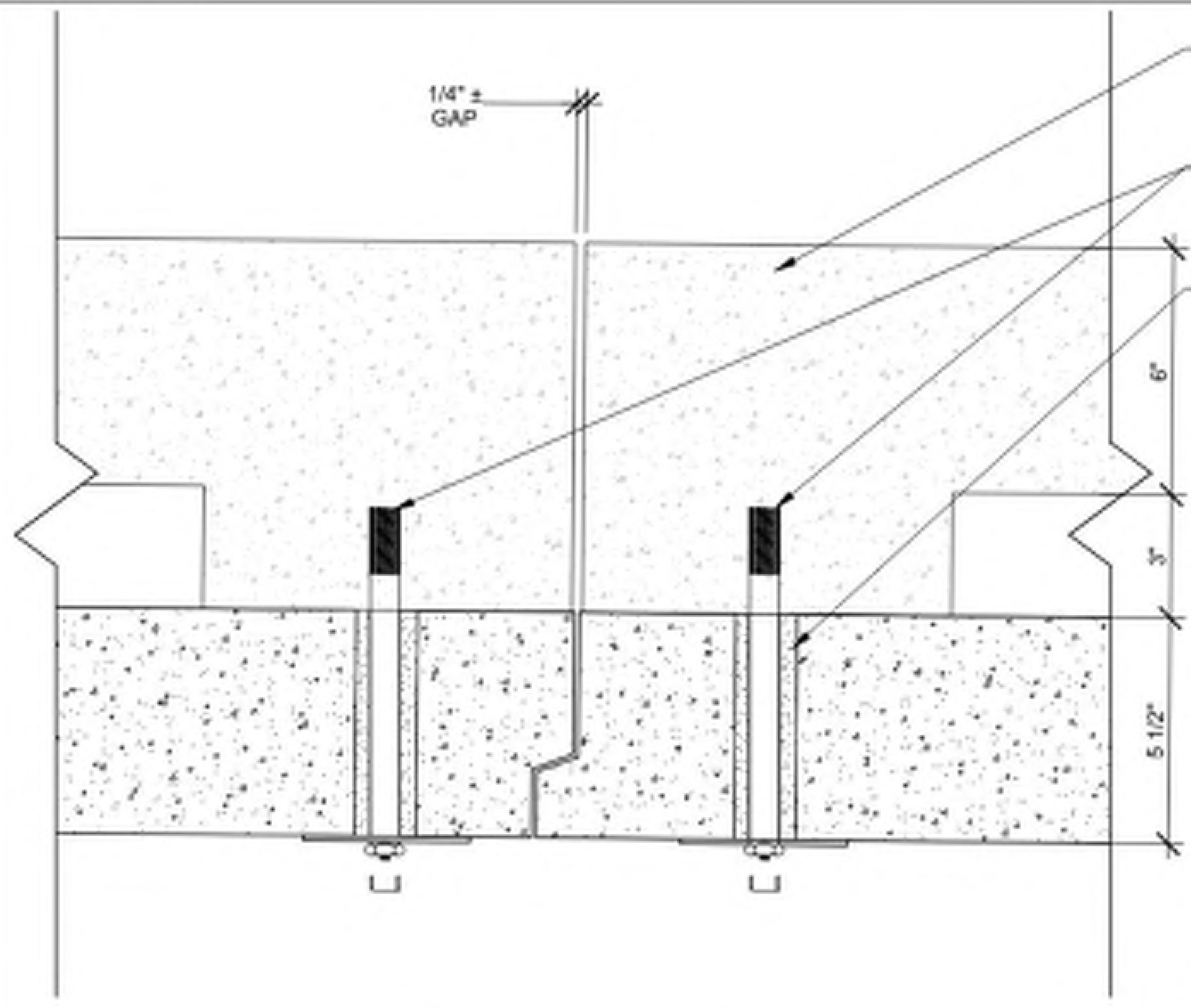
SITE DETAILS - STAIRS & RAMPS

A-017

9/27/2022 9:23:27 AM

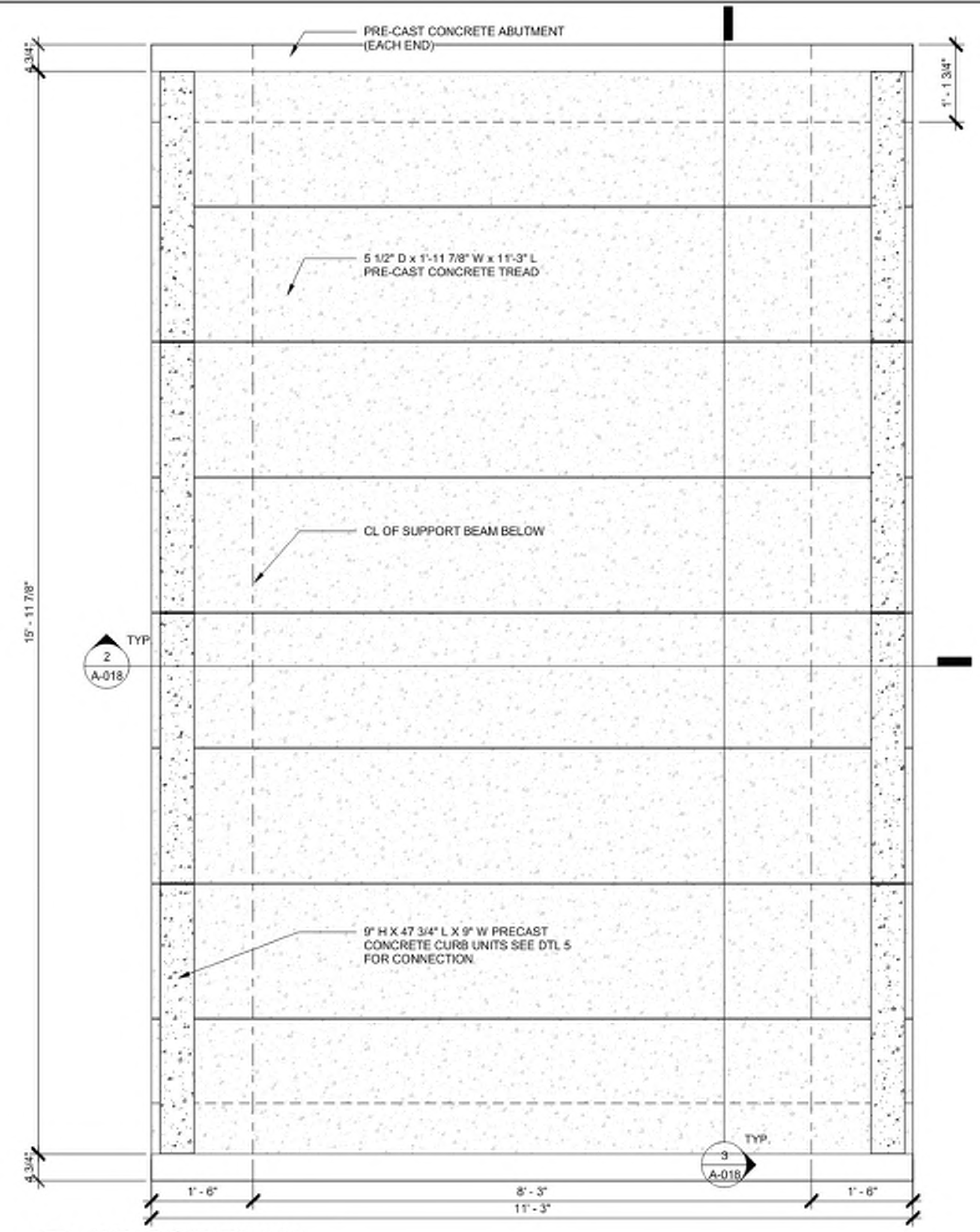


4 BRIDGE SUPPORT BEAM CONNECTION
3" = 1'-0"

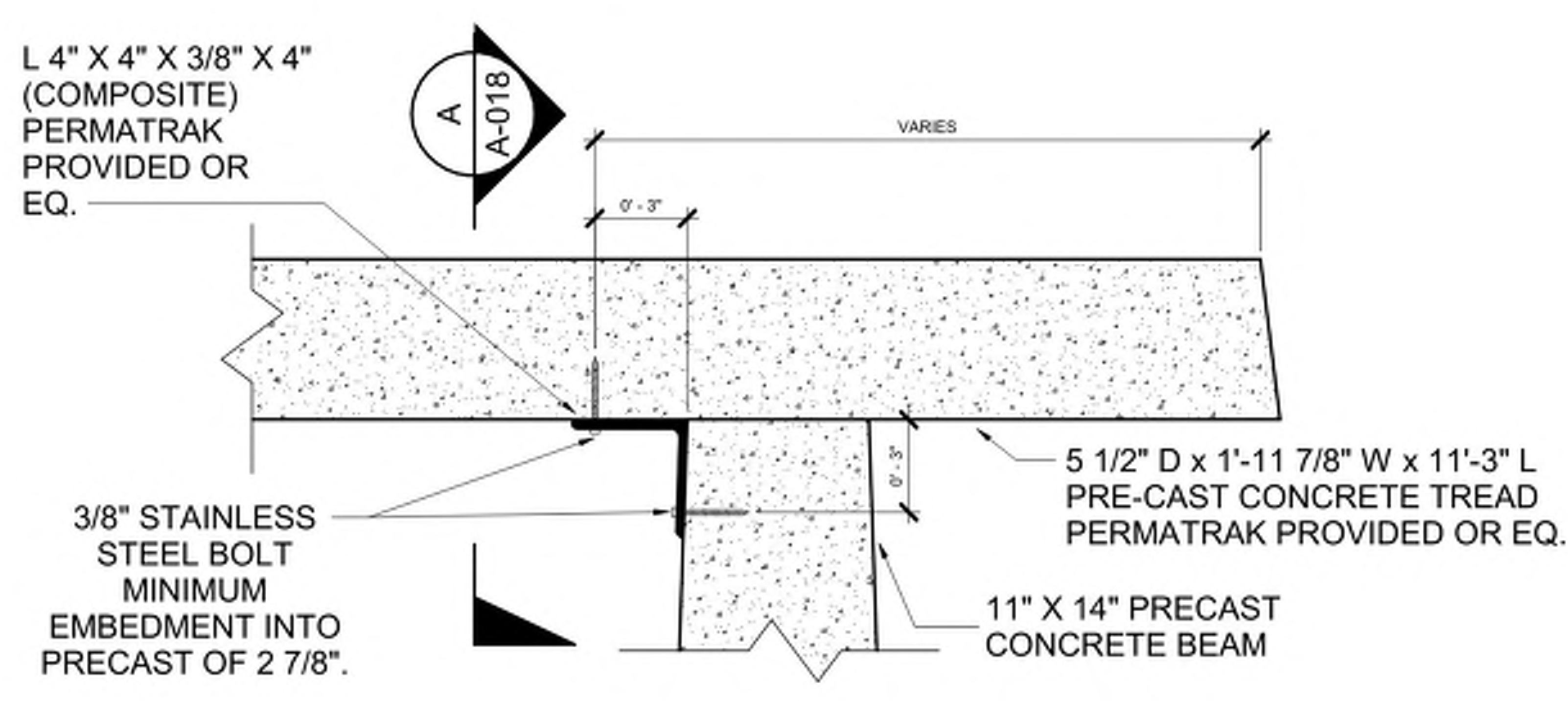


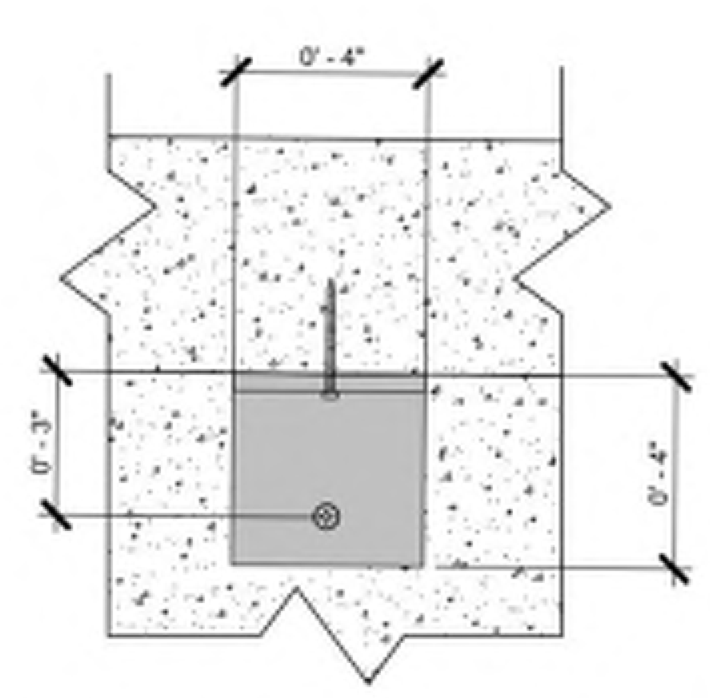
NOTES:
1. 2"Ø PRE-FORMED HOLES BY PLANK BRIDGE MANUFR.
2. CONNECTION HARDWARE SUPPLIED BY PLANK BRIDGE MANUFR
3. FILL OVERSIZED DOWEL HOLES w/ SIKAFLEX-11 FC OR APPROVED EQUAL.
4. AFTER TIGHTENING NUT, DEFORM THREADS ON ROD TO PREVENT LOOSENING.
5. THREADED ROD SHALL BE GALV. AND HAVE COURSE COILED THREADS TO FIT MEADOW BURKE CX-28 COIL WINGNUT INSERT.

5 BRIDGE CURB CONNECTION
3" = 1'-0"



1 BRIDGE PLAN
3/4" = 1'-0"

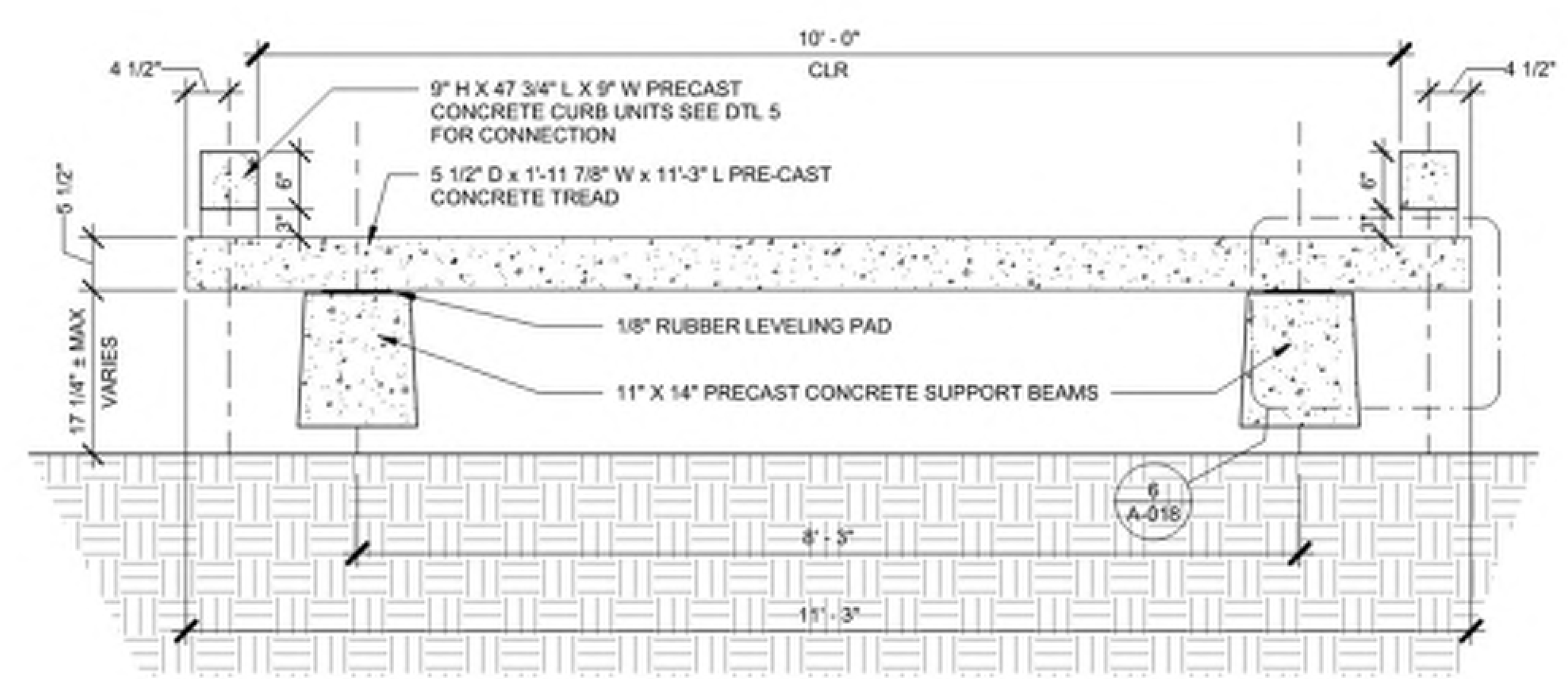




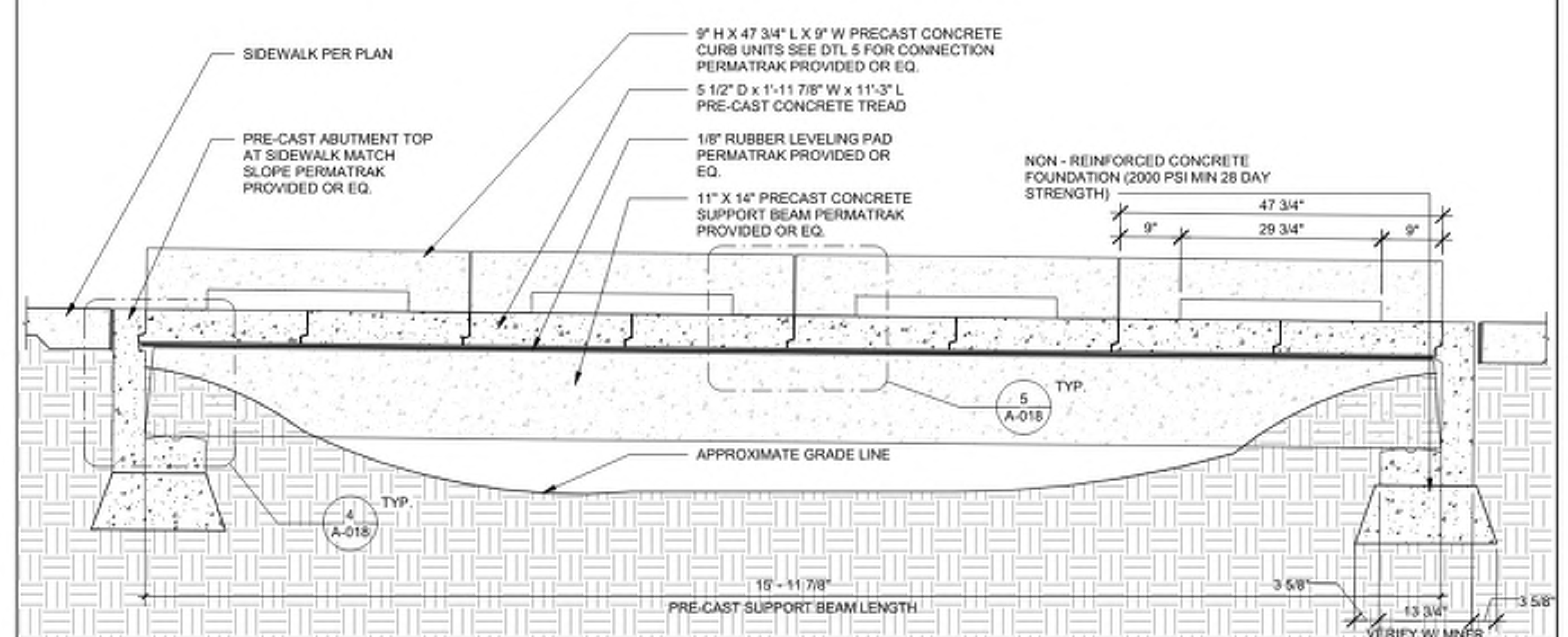
A A-018 **SECTION**

NOTES:
1. ALL HOLES IN PRECAST SHALL BE DRILLED BY CONTRACTOR.
2. DRILLED HOLES IN PRECAST SHALL BE 2 7/8" DEEP AND 3/8" DIA.
3. PRIOR TO INSTALLING BOLT, HOLE SHALL BE THOROUGHLY CLEANED.
4. MAXIMUM INSTALLATION TORQUE: 35 FT-LB.
5. ONE (1) CLIP ANGLE IS REQUIRED PER TREAD, LOCATION OF CLIP ANGLE ON TREAD SHALL ALTERNATE SIDES FROM TREAD TO TREAD.

6 TREAD TO BEAM CONNECTION
3" = 1'-0"



2 BRIDGE CROSS SECTION
3/4" = 1'-0"



3 BRIDGE LONGITUDINAL SECTION
3/4" = 1'-0"

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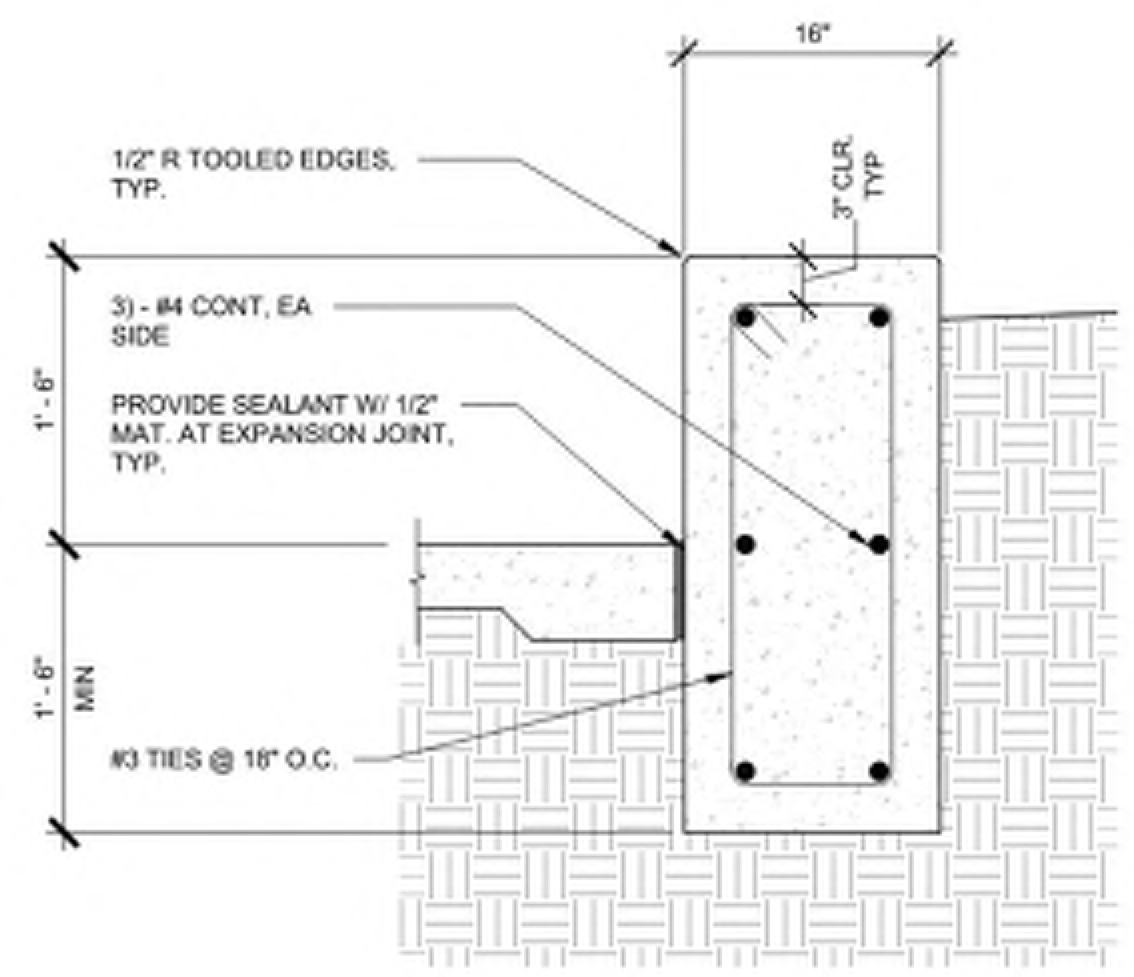
CHECKED BY:	JM / AS

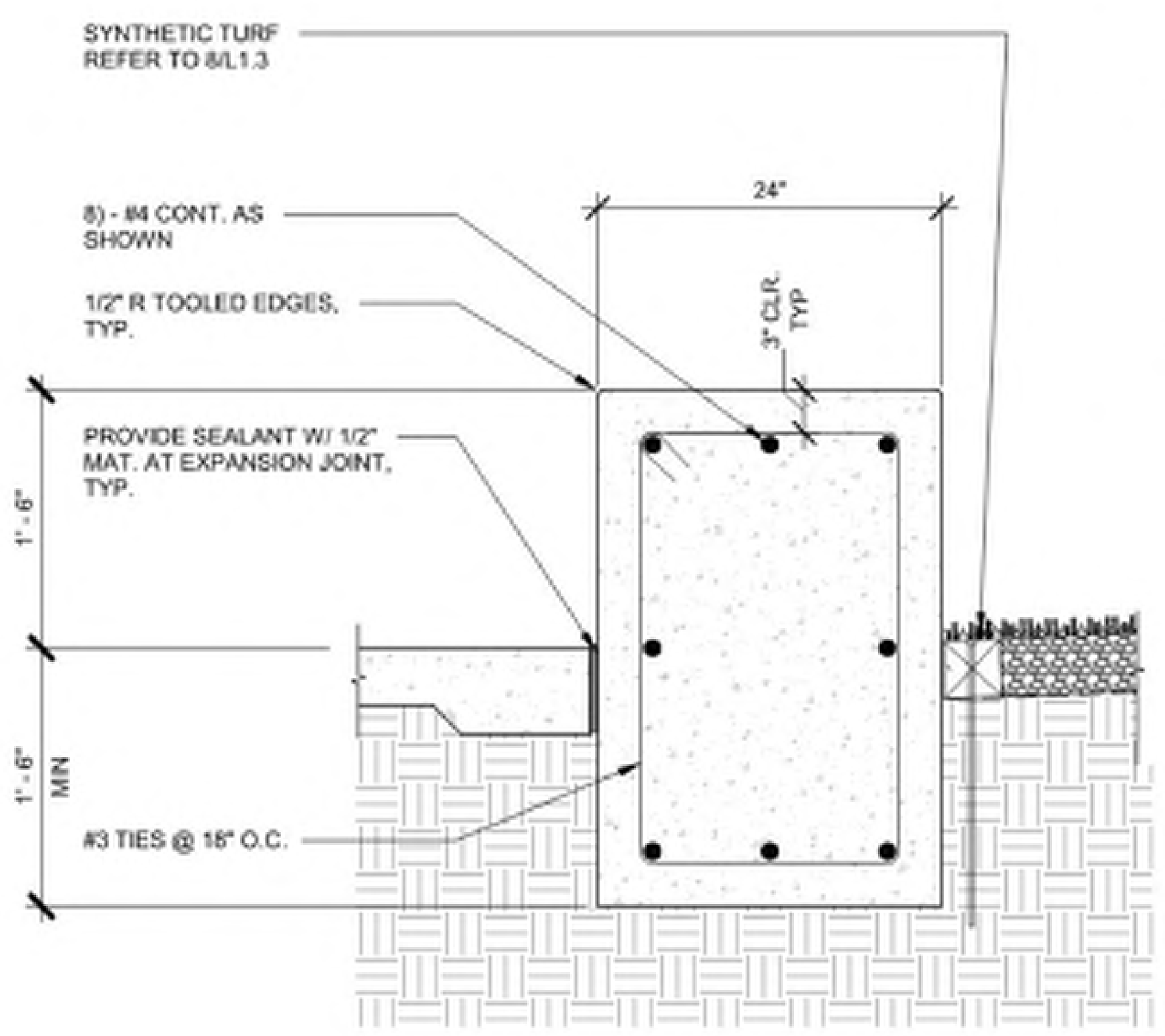
SITE DETAILS - DECORATIVE BRIDGE

A-018

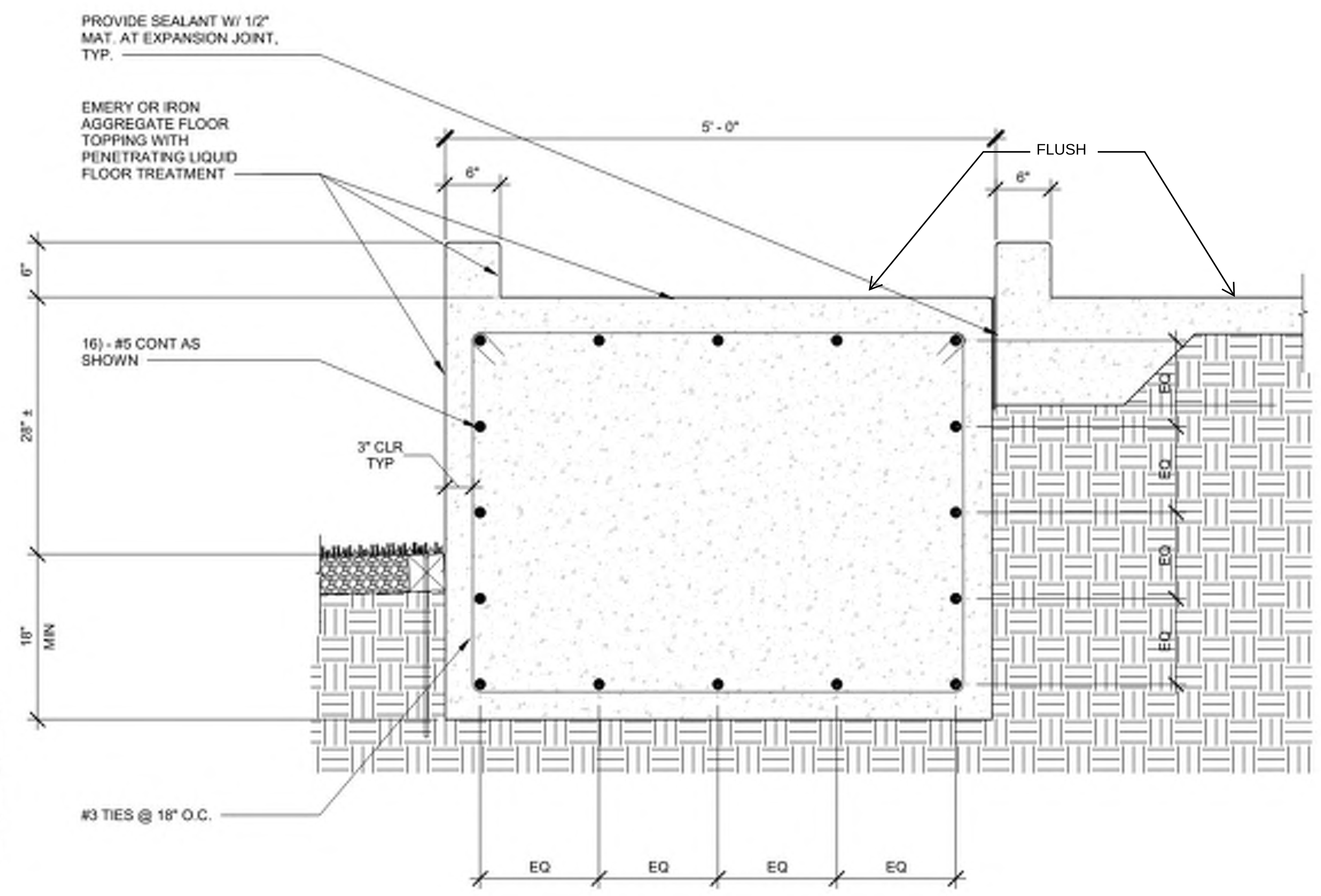
9/27/2022 11:57:47 AM



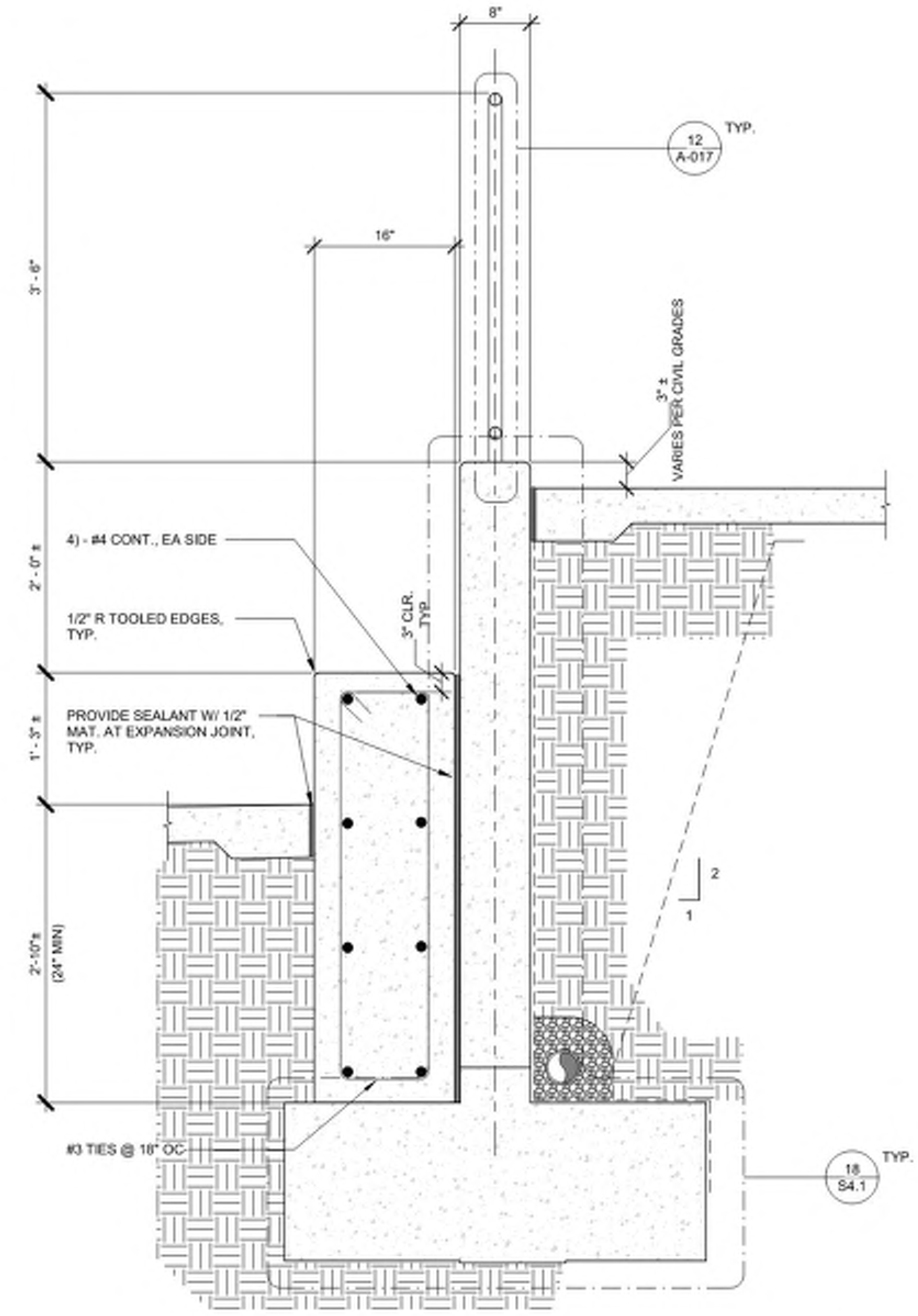
7 SECTION THRU FRONT WALL SEAT
1" = 1'-0"



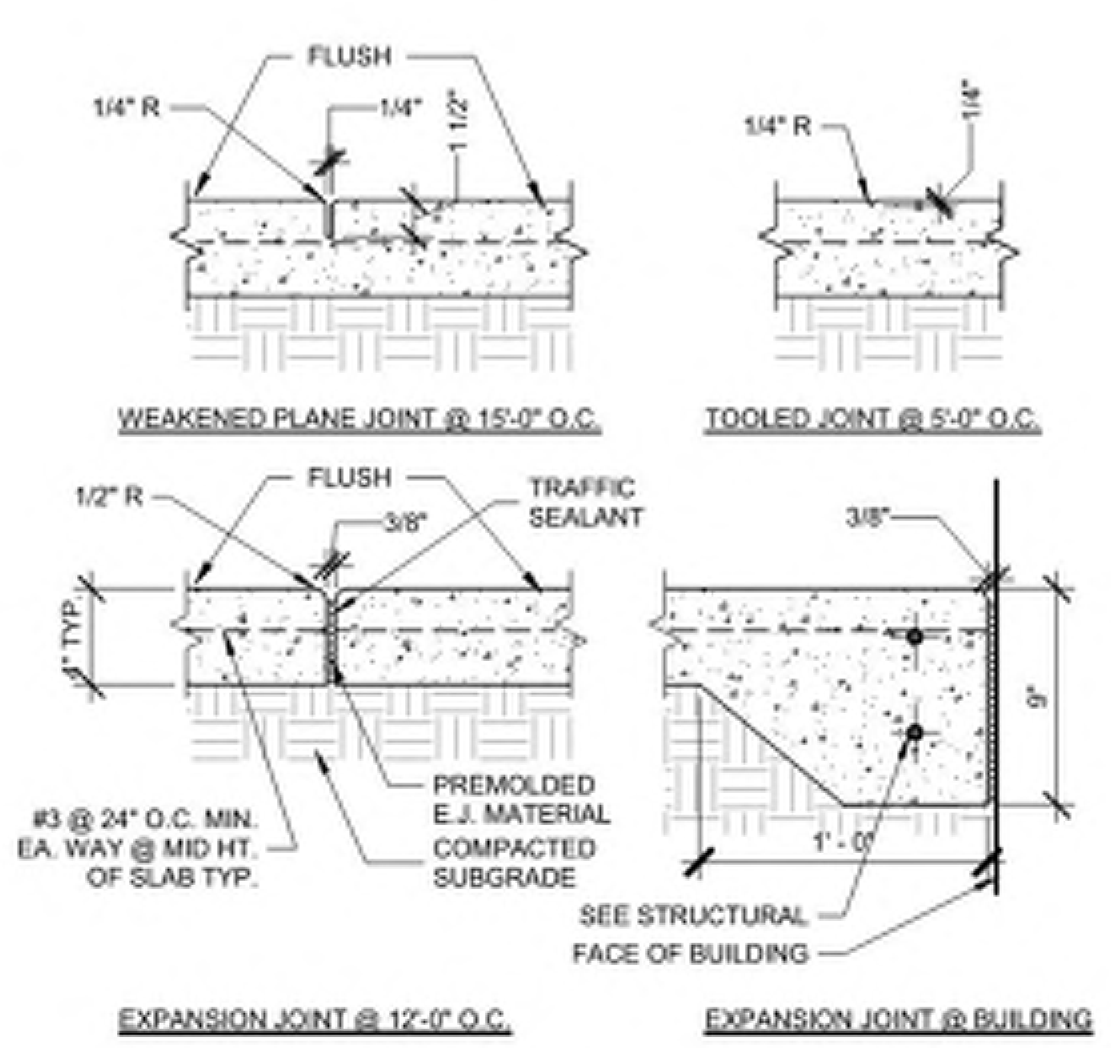
3 SECTION THRU WALL SEAT
1" = 1'-0"



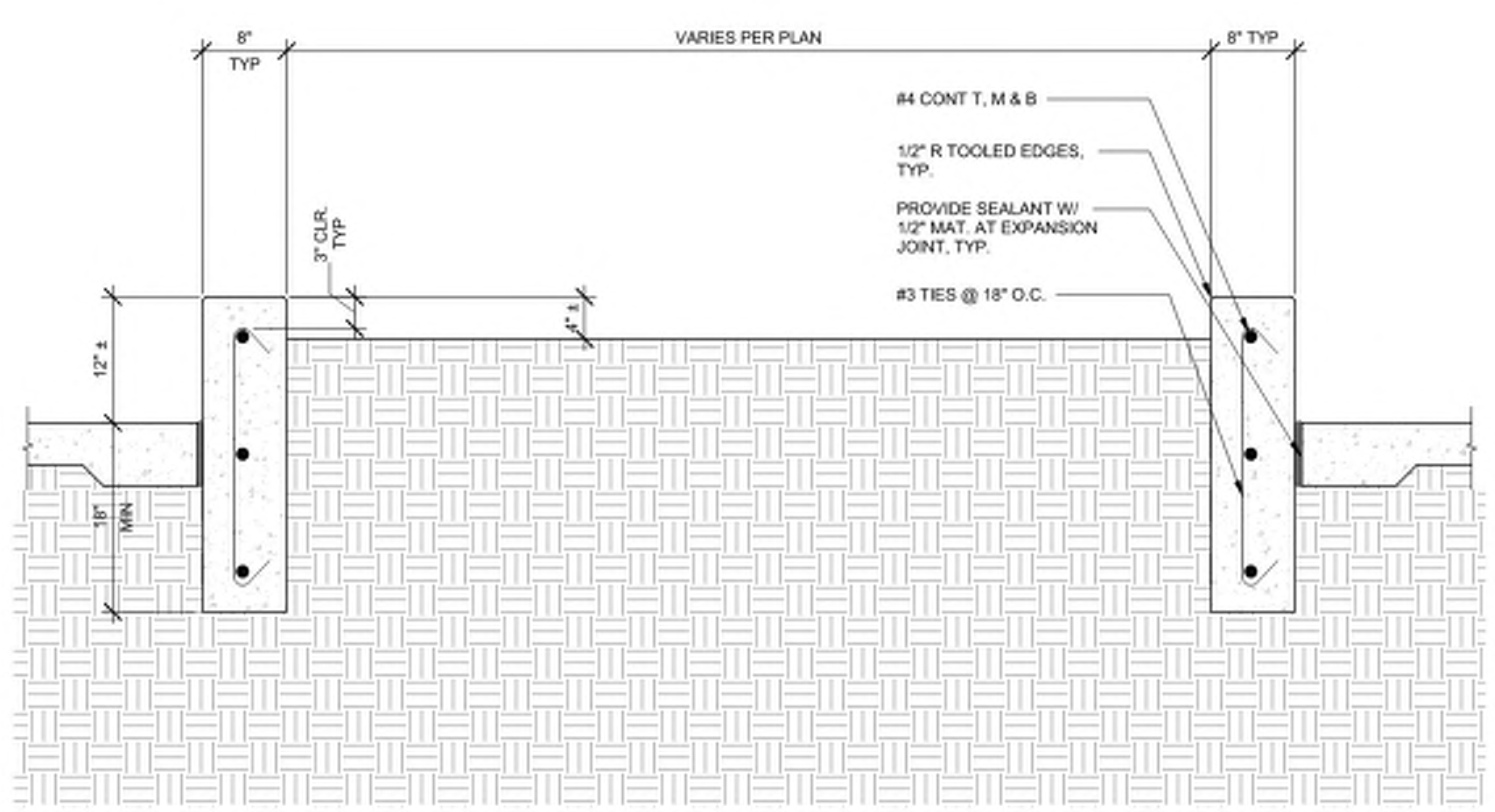
2 SECTION THRU STAGE
1" = 1'-0"



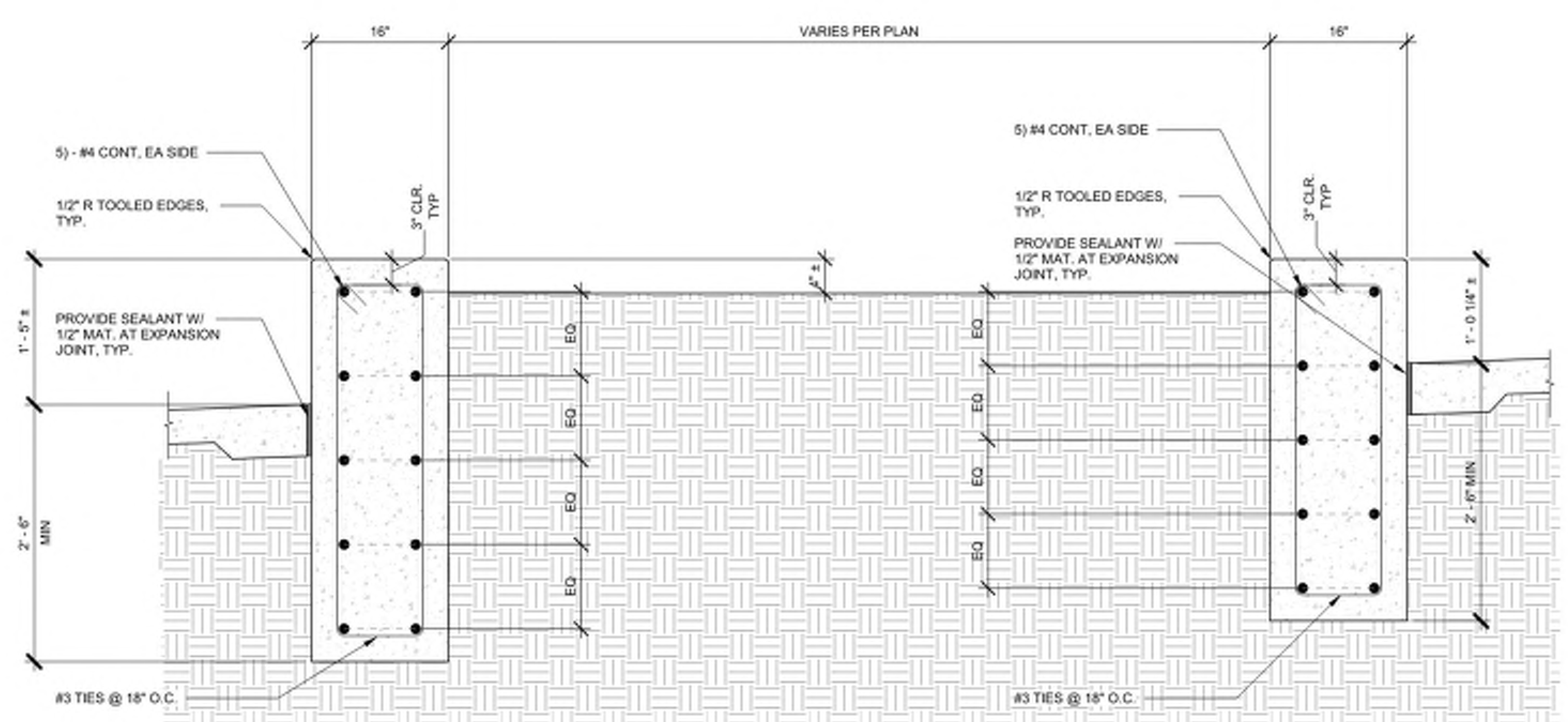
1 SECTION THRU RETAINING WALL
1" = 1'-0"



6 TYP. CONCRETE JOINTS
1 1/2" = 1'-0"



5 SECTION THRU PLANTERS - 8" WALLS
1" = 1'-0"



4 SECTION THRU PLANTERS - 16" WALLS
1" = 1'-0"

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LICENSED ARCHITECT
NO. C28089
REN. 03/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School District

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

SITE DETAILS - WALKWAYS & WALLS

A-019

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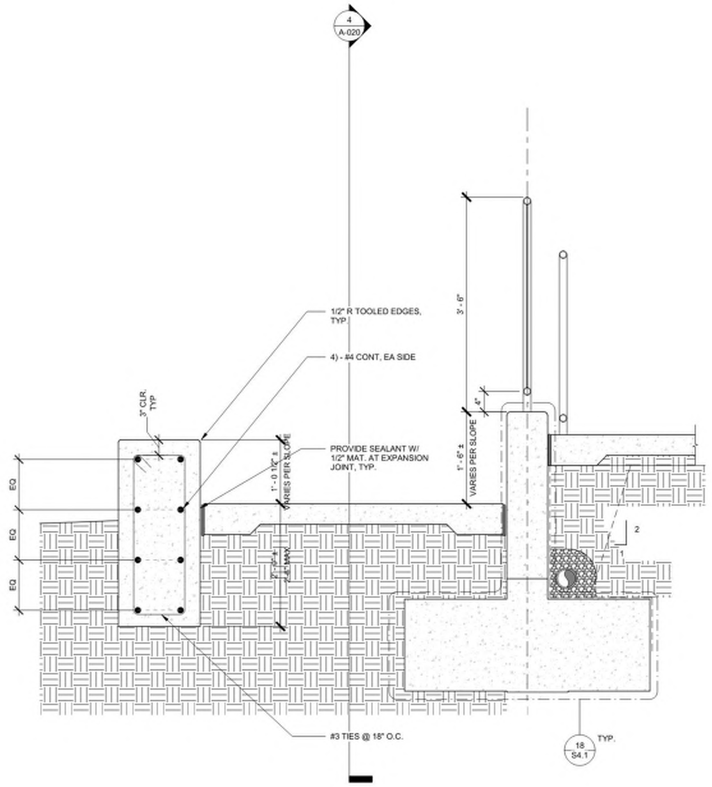
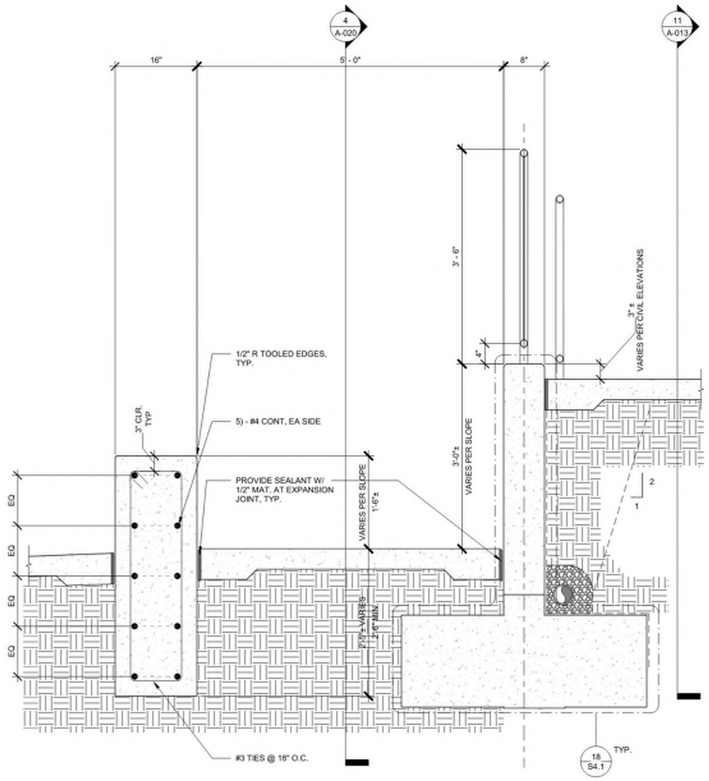
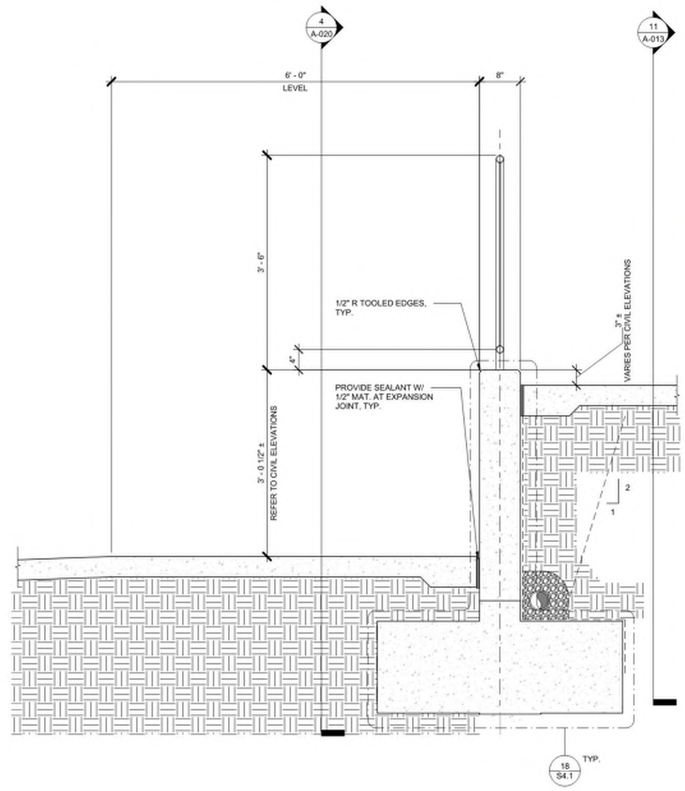


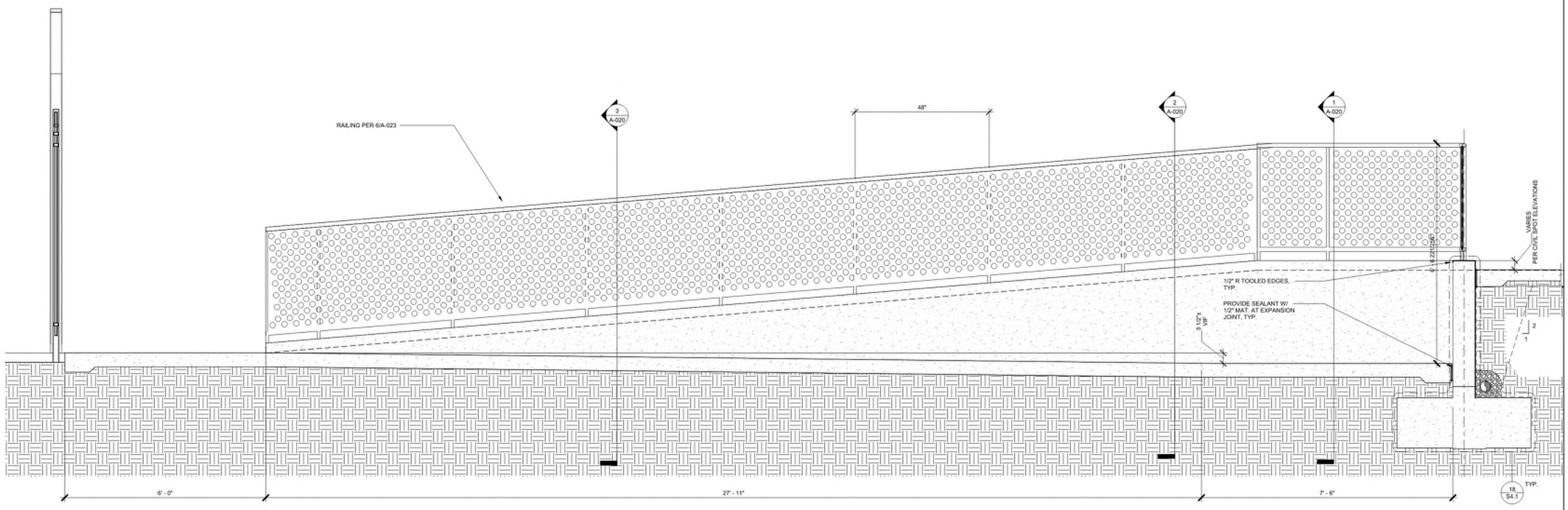




3 SECTION THRU SOUTH RETAINING WALL 3
1" = 1'-0"

2 SECTION THRU SOUTH RETAINING WALL 2
1" = 1'-0"

1 SECTION THRU SOUTH RETAINING WALL 1
1" = 1'-0"



4 SECTION THRU SLOPED WALK
3/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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CVE

LICENSED ARCHITECT
ANDREW V. STRATTON
No. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

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SITE DETAILS - WALKWAYS & WALLS

A-020

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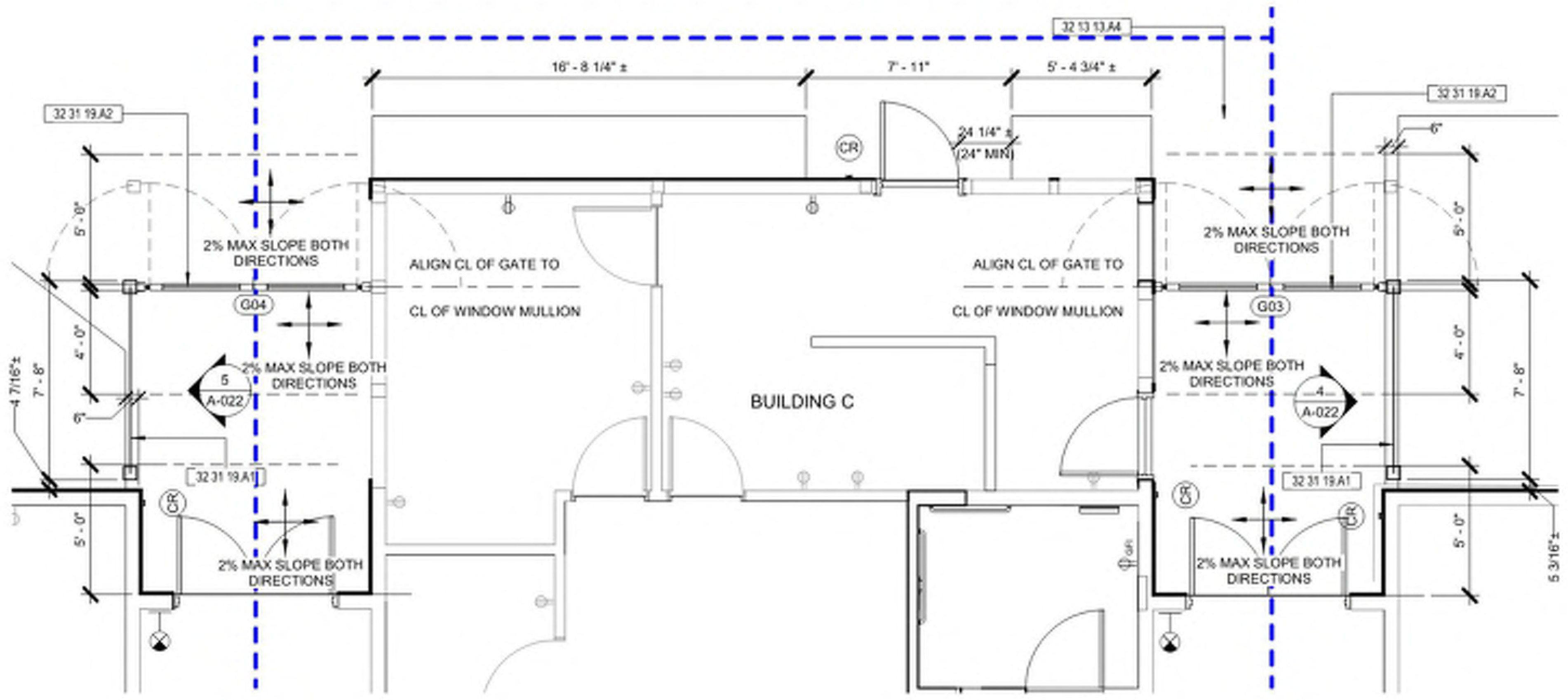

2 DETAIL FENCE PLAN - BUILDING C ENTRANCE
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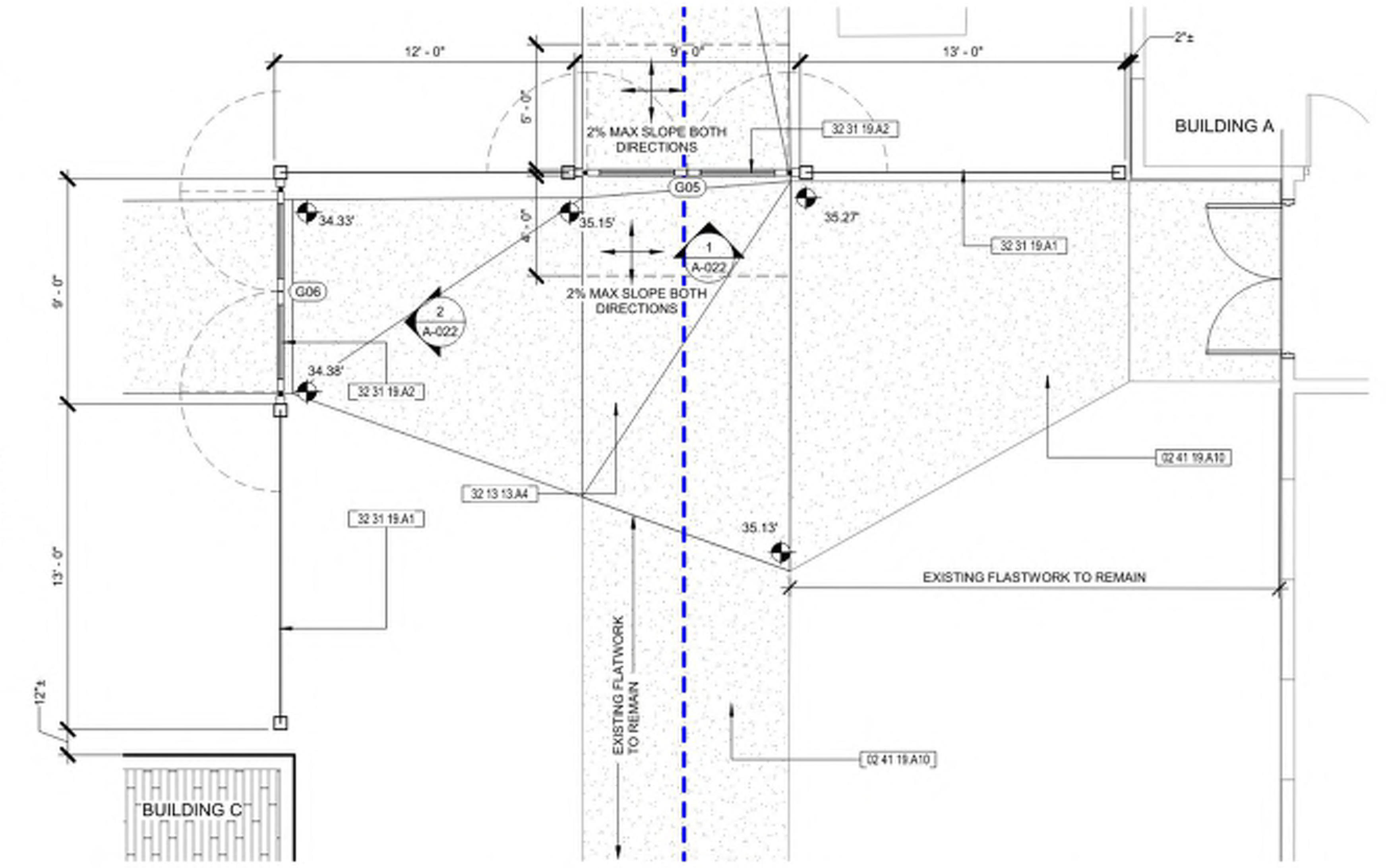
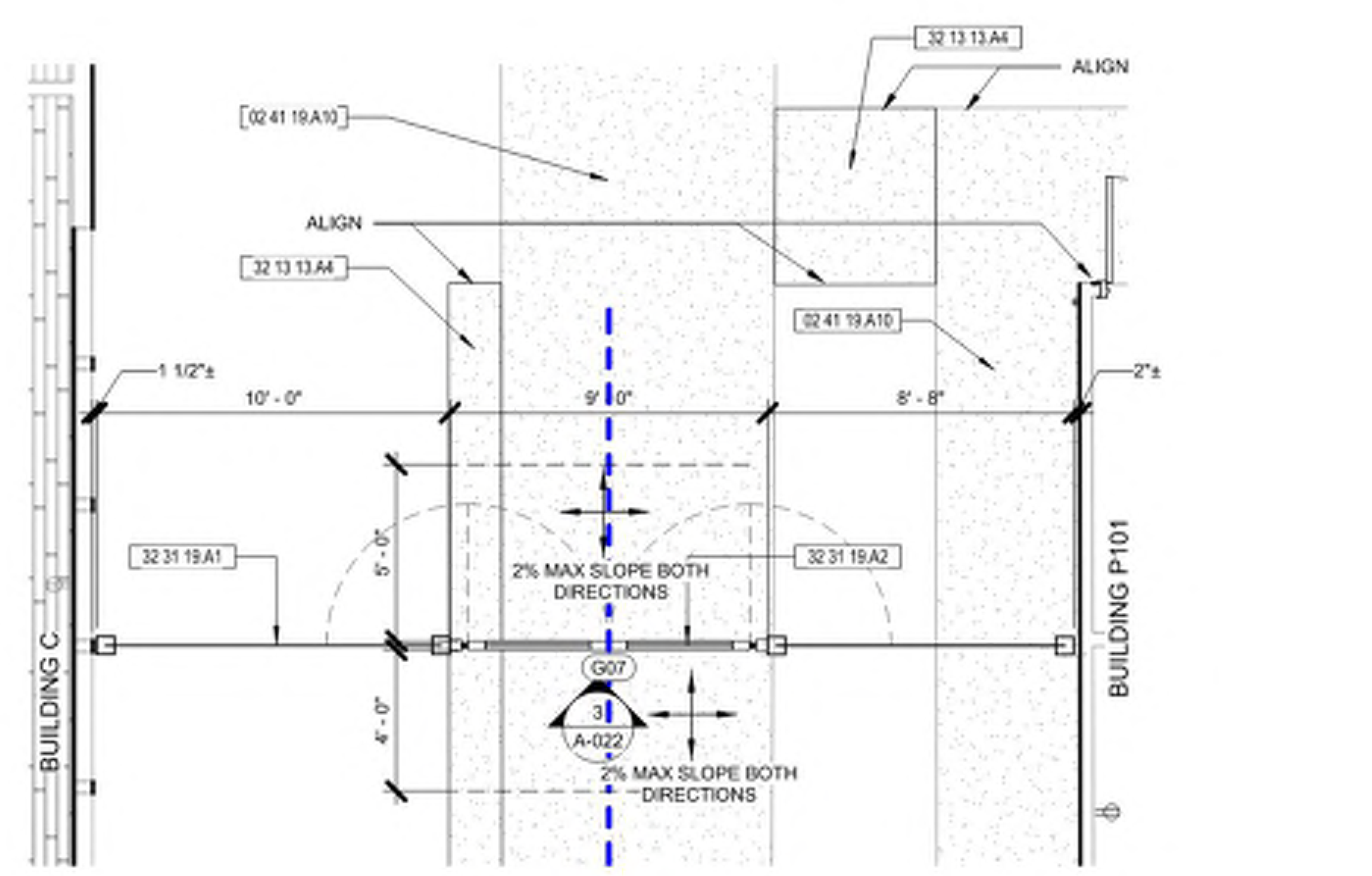


1 DETAIL FENCE PLAN - BETWEEN BLDG A & BLDG C
1/4" = 1'-0"



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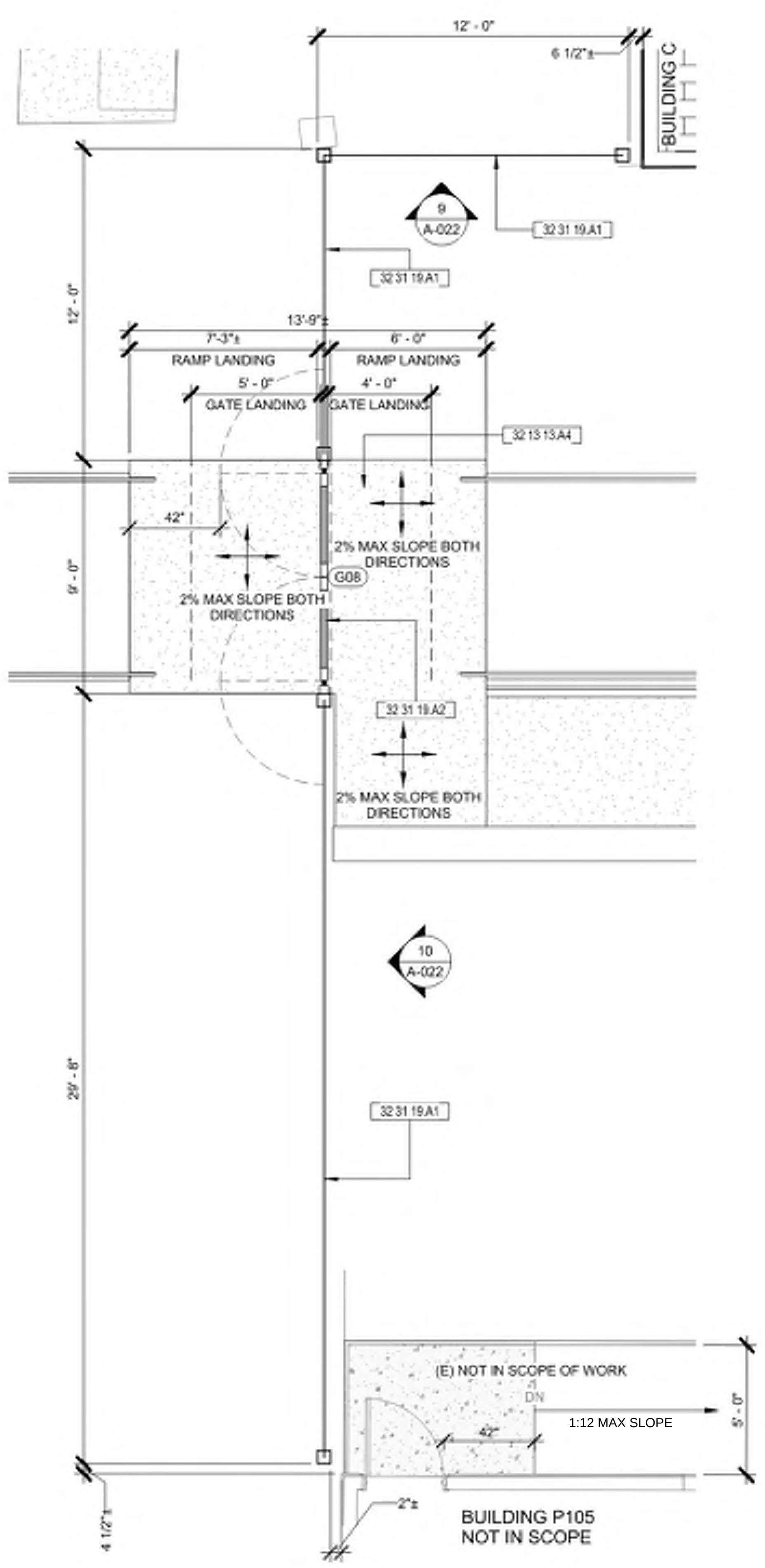

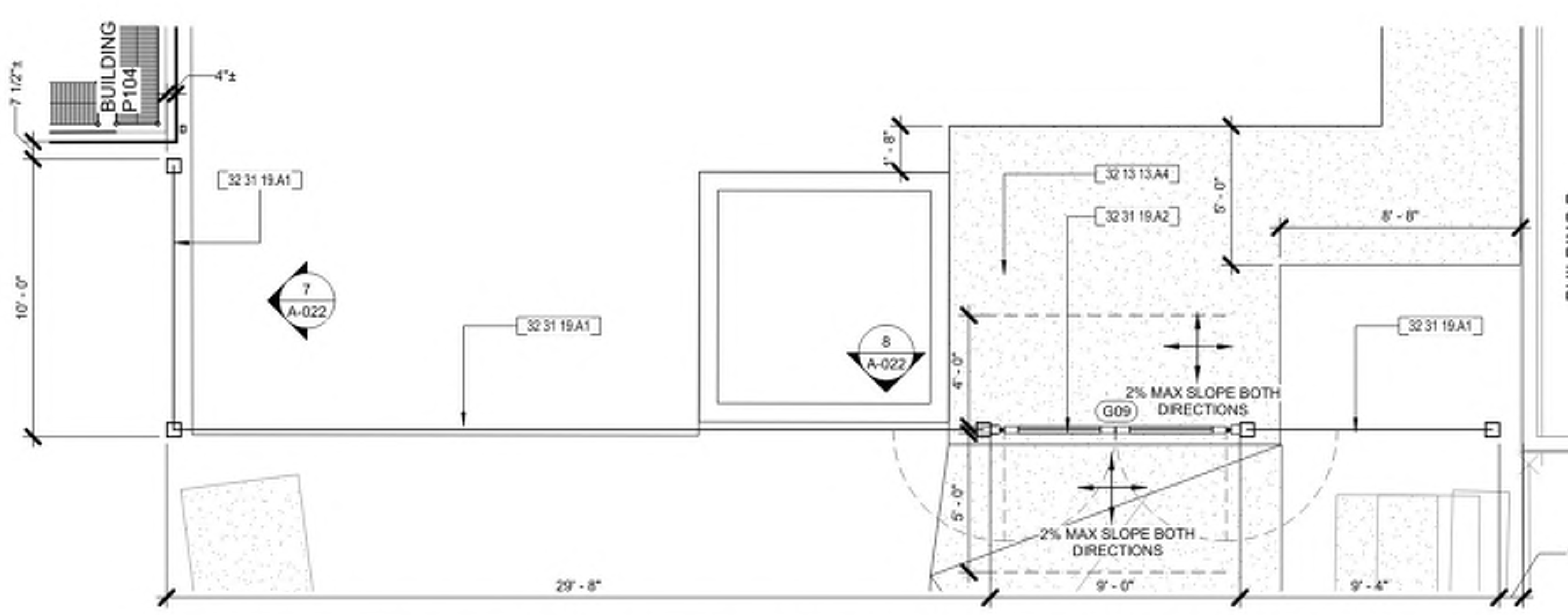

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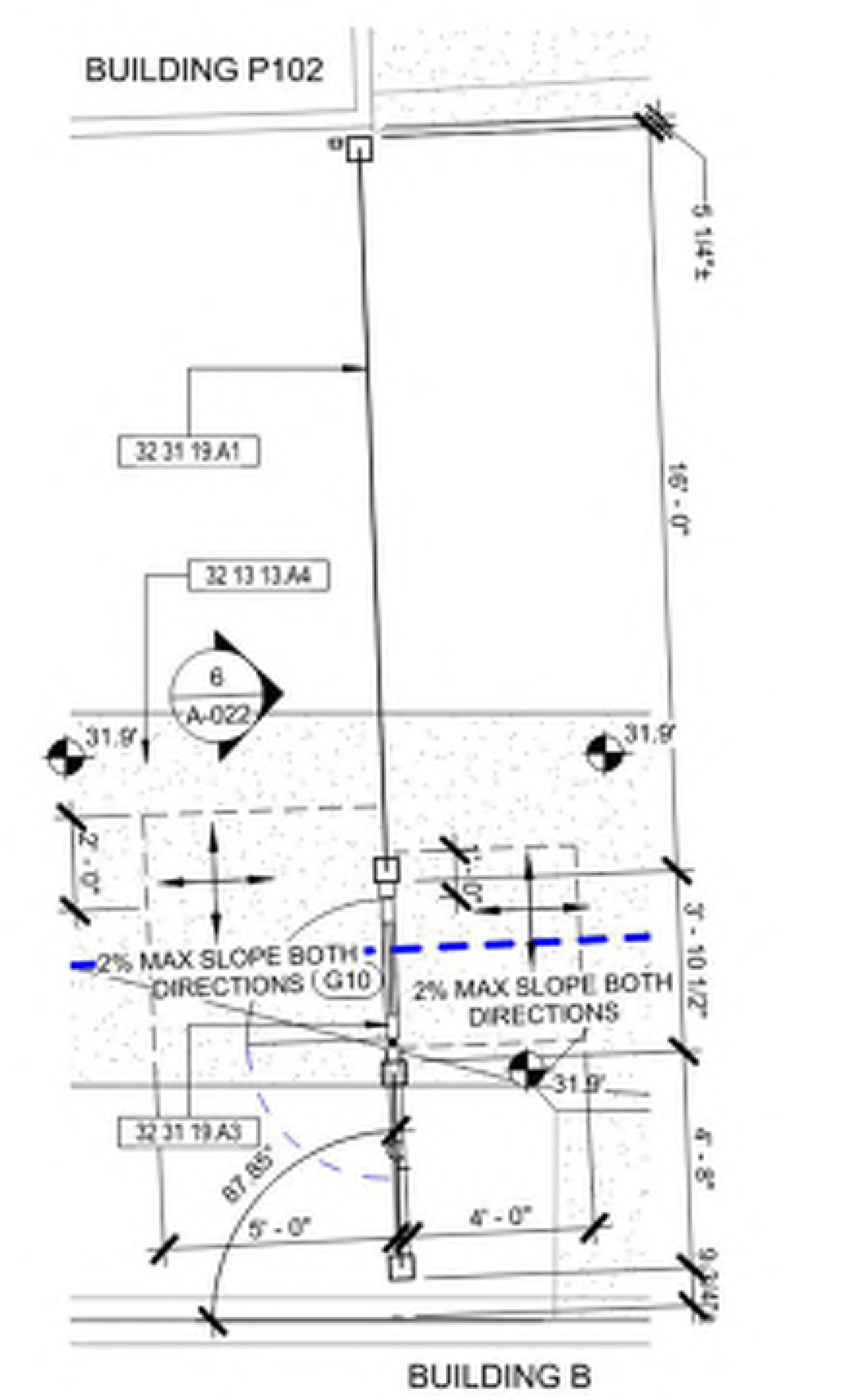

6 DETAIL FENCE PLAN - BEWTEEN BLDG C & BLDG P105
1/4" = 1'-0"

4 DETAIL FENCE PLAN - BETWEEN BLDG B & BLDG P102
1/4" = 1'-0"

GENERAL NOTES

1. LOCATION OF HARDWARE TO COMPLY WITH SD1-100. NAAMM (HMMA) QND TITLE-24 (CALIFORNIA BUILDING CODE) AND ADA (AMERICANS WITH DISABILITIES ACT).
2. DOORS AND HARDWARE SHALL COMPLY WITH C.B.C. SECTION 11B-404.
3. DOOR WIDTHS ON SCHEDULE FOR PAIRS REFER TO TOTAL WIDTH FOR BOTH LEAFS.
4. FOR ACCESSIBLE GATE AND DOOR CLEARENCE REQUIREMENTS REFER TO SHEET G-004
5. DOOR AND FRAME COLOR NOTE LEGEND SHOWN BELOW AND INDICATED IN "REMARKS" COLUMN OF SCHEDULE.
6. DOOR AND FRAME COLORS TO MATCH U.O.N.
7. ALL DOORS AND GATES ALONG THE PATH OF TRAVEL ROUTE SHALL COMPLY WITH THE PUSHING AND PULLING GFORCE TO OPEN A DOOR OR GATE AS FOLLOWS:
   A. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.
   B. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM.
   C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS MAXIMUM.
   D. EXTERIOR HINGED DOORS AND GATES: 5 POUND MAXIMUM.

   THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.
8. HARDWARE SHALL UNLATCH WITH 5 POUNDS MAXIMUM FORCE PER CBC 11B-308.4
9. WHERE DOORS OR GATES HAVE CLOSERS, CLOSING SPEED SHALL COMPLY WITH 11B-404.2.8.
   A. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE TIME REQUIREDTO MOVE THE DOOR OR GATE TO A POSITION OF 12" FROM THE LATCH IS 5 SECONDS MINIMUM.
   B. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70°, THE DOOR OR GATE SHALL MOVE TO A CLOSED POSITION IN 1.5 SECONDS.

KEYNOTES

02 41 19.A10	EXISTING SIDEWALK TO REMAIN, TYP.
32 13 13.A4	5" CAST-IN-PLACE SLAB W/ METAL MESH REINFORCEMENT IF OVER 8' IN BOTH DIRECTIONS, REFER TO CONCRETE PAVING NOTES C-01
32 31 19.A1	DECORATIVE METAL FENCE, POWDER COAT FINISH - REFER TO 4/A-024
32 31 19.A2	DECORATIVE DOUBLE GATE, POWDER COAT FINISH - REFER TO 9/A-024
32 31 19.A3	DECORATIVE SINGLE GATE, POWDER COAT FINISH - REFER TO 10/A-024

LEGEND

PATH OF TRAVEL

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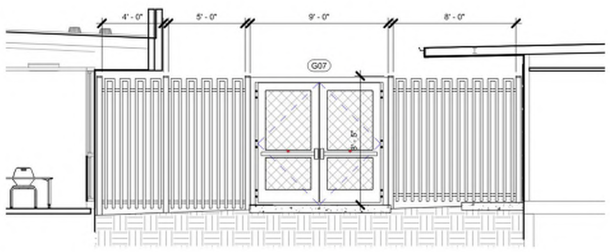
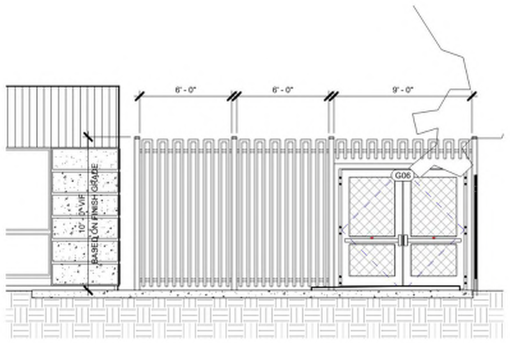
SITE DETAIL PLANS - FENCING

A-021

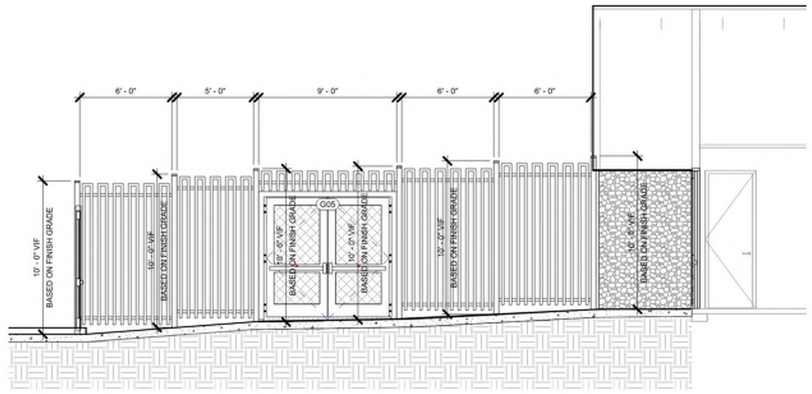
10/10/2022 1:55:55 PM



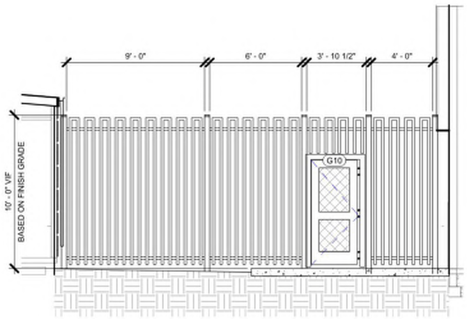
3 FENCE 3A
1/4" = 1'-0"



2 FENCE 1D
1/4" = 1'-0"



1 FENCE 1A
1/4" = 1'-0"



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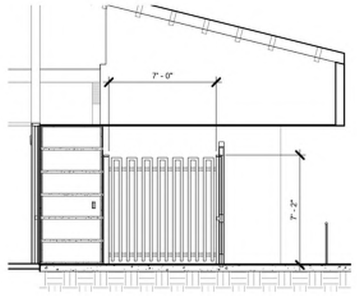
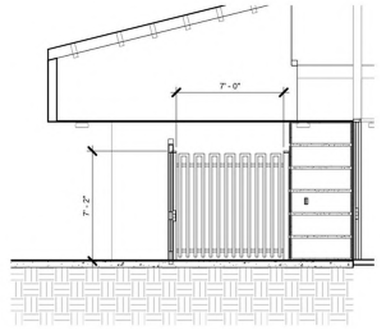
1/4" = 1'-0"



5 FENCE 2D
1/4" = 1'-0"



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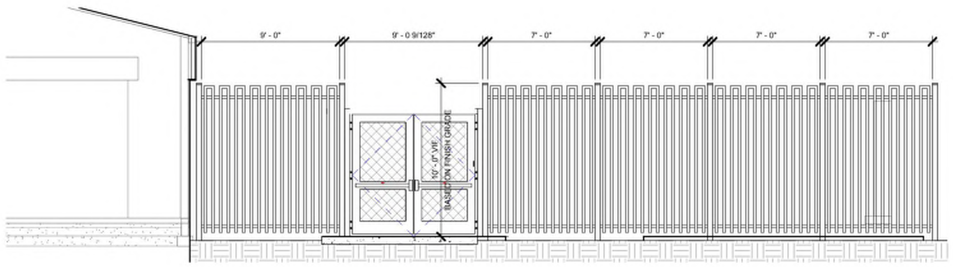
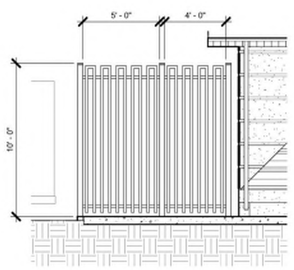
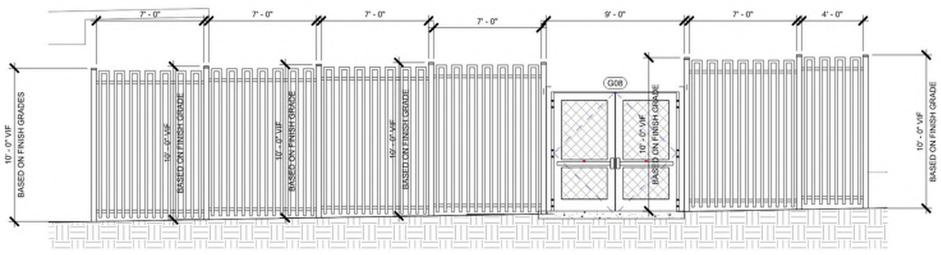
1/4" = 1'-0"



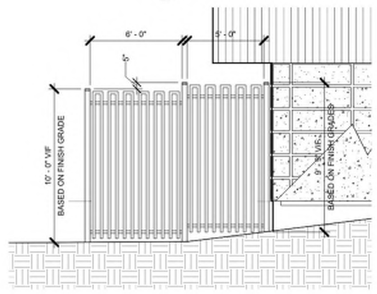
8 FENCE 5C
1/4" = 1'-0"



7 FENCE 5D
1/4" = 1'-0"



10 FENCE 6D
1/4" = 1'-0"



9 FENCE 6A
1/4" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
2. DECORATIVE STEEL FENCE PER 4 / A-024
3. GATE SCHEDULE PER A-800.
4. DECORATIVE SINGLE STEEL GATE PER 10 / A-024
5. DECORATIVE DOUBLE STEEL GATE PER 9 / A-024
6. CHAIN LINK FENCE PER 2 / A-024
7. DOUBLE CHAIN LINK GATE PER 1 / A-024

FENCES, GATES AND HARDWARE:

- GATES THAT ARE A PART OF THE ACCESSIBLE ROUTE SHALL MEET ALL OF THE REQUIREMENTS OF AN ACCESSIBLE DOOR IN COMPLIANCE WITH **CBC SECTION 11B-404**.
- THE LEVERS OF A LEVER ACTUATED LATCHES OR LOCKS FOR ACCESSIBLE GATES SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" OF THE GATE SURFACES TO PREVENT CATCHING ON THE CLOTHING OF PERSONS, **CALIFORNIA REFERENCE STANDARDS CODE. T-24 PART 12, SECTION 12-10-202, ITEM (F)**.
- SWING DPOORS AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. **CBC SECION 11B-404.2.10**

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JAMES V. SORATTEN
NO. C28089
EXP. 08/31/23
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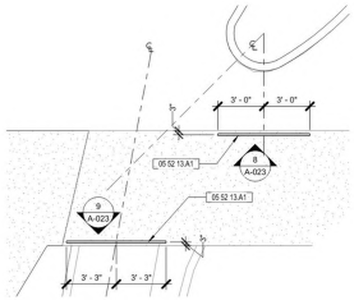
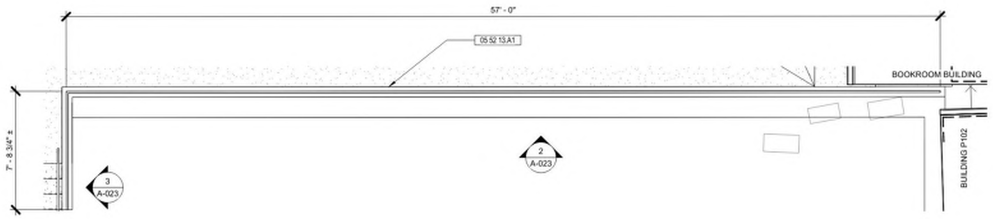
SITE DETAIL ELEVATIONS - FENCING

A-022

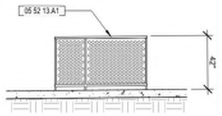
9/27/2022 9:24:10 AM



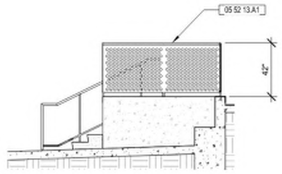
7 DETAIL RAILING PLAN - NEAR ADD ALTERNATE ENTRY
1/4" = 1'-0"



1 DETAIL RAILING PLAN - JUNIOR HIGH SCHOOL COMMONS NORTH
1/4" = 1'-0"



8 RAILING 3A
1/4" = 1'-0"



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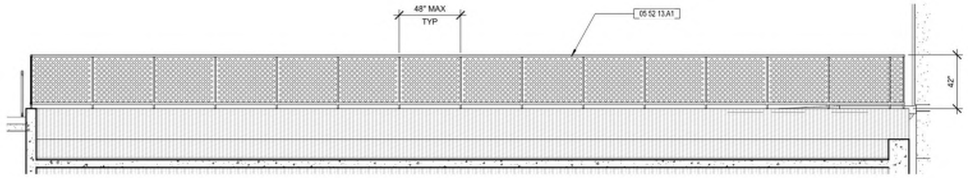
1/4" = 1'-0"



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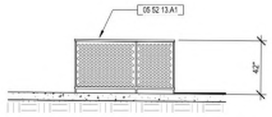
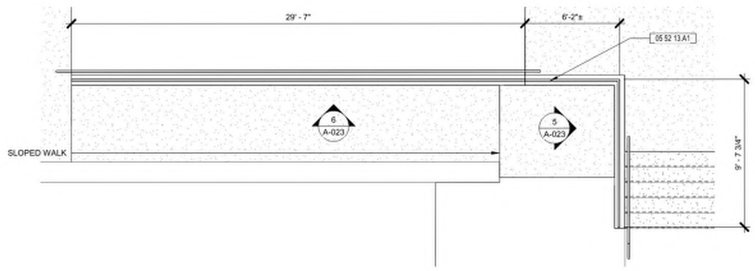
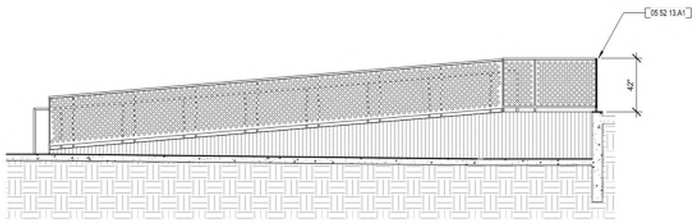
1/4" = 1'-0"



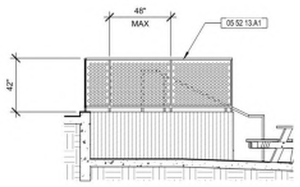
9 RAILING 3C
1/4" = 1'-0"



4 DETAIL RAILING PLAN - JUNIOR HIGH SCHOOL COMMONS SOUTH
1/4" = 1'-0"



6 RAILING 2A
1/4" = 1'-0"



5 RAILING 2B
1/4" = 1'-0"

GENERAL NOTES

RAILINGS AND HANDRAILS: CBC SECTION 11B-505

1. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34" MINIMUM AND 38" MAXIMUM VERICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSTANT HEIGHT ABOVE SUCH SURFACES.
2. CLEARENCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES BE 1 1/2" MINIMUM. HANDRAIL MAY BE LOCATEDIN A RECESSIF THE RECESS IS 3" MAXIMUM DEEP AND PROVIDES 18" MINIMUM CLEAR SPACE ABOVE TOP OF HANDRAIL.
3. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTEDALONG THEIR TOPS OR SIDES. THE BOTTOMS OF THE HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTEDFOR MORE THAN 20% OF THEIR LENGTH. WHERE SUPPORTS ARE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2" MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.
4. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND 2" MAXIMUM.
5. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIMENSION OF 4" MINIMUM AND 6 1/2" MAXIMUM, AND A CROSS-SECTIONAL DIMENSION OF 2 1/4" MAXIMUM.
6. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
7. HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.
8. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH CBC SECTION 11B-505.10. SUCH EXTENSIONS ARE NOT REQUIRED FOR CONTINUOUS HANDRAILS AT INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPS.
9. THE ORIENTATION OF AT LEAST ONE HANDRAIL SHALL BE IN THE DIRECTION OF THE STAIR RUN, PERPENDICULAR TO THE DIRECTION OF THE STAIR NOSING, AND SHALL NOT REDUCE THE MINIMUM REQUIRED WIDTH OF THE STAIR. CBC SECTION 11B-505.2.1.
10. A 2" MINIMUM HIGH CURB OR BARRIER SHALL BE PROVIDED TO PREVENT THE PASSAGE OF A 4" DIAMETER SHERE ROLLING OFF THE EDGES OF THE RAMP OR LANDING SURFACE. SUCH A CURB OR BARRIER SHALL BE CONTINUOUS AND UNINTERRUPTED ALONG THE LENGTH OF A RAMP. CBC SECTION 11B-405.9.2.

KEYNOTES

05 52 13.A1	METAL GUARD RAILING, REFER TO 12/A-017

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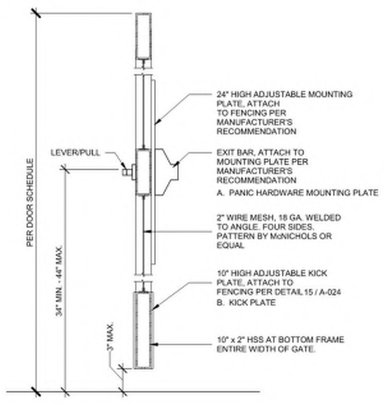
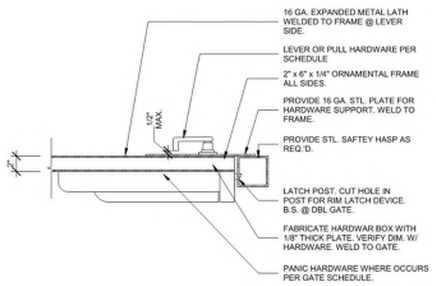
SITE DETAIL PLANS AND ELEVATIONS - RAILINGS

A-023

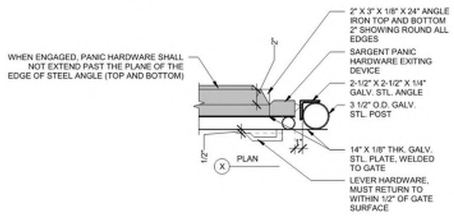
10/10/2022 1:56:08 PM



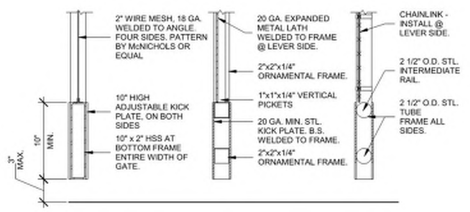
12 GATE DETAIL
1 1/2" = 1'-0"



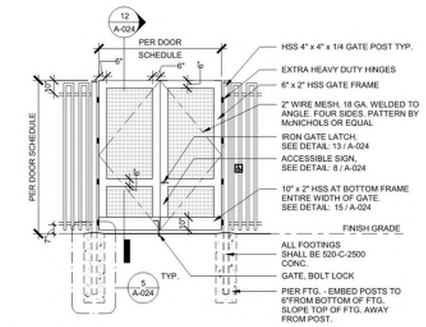
13 DECORATIVE GATE LATCH
1 1/2" = 1'-0"



14 PANIC HARDWARE DETAIL
1 1/2" = 1'-0"



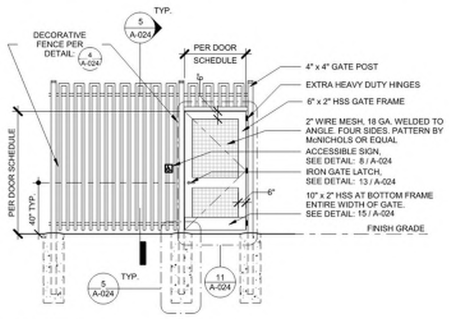
15 GATE KICKPLATE
1 1/2" = 1'-0"



GENERAL NOTES

1. ALL METAL & MESH TO BE BLACK VINYLE AND POWDERCOAT TO MATCH EXISTING DECORATIVE FENCE
2. LEVER OR PULL LATCH ADA COMPLIANT HARDWARE - SHALL HAVE NO TIGHT GRASPING, PINCHING, OR TWISTING TO OPERATE & SHALL HAVE A 5LBS. MAX OPERATING FORCE. ALL SHARP EDGES INCLUDING BOLTS AND CREWS TO BE GRINDED SMOOTH.

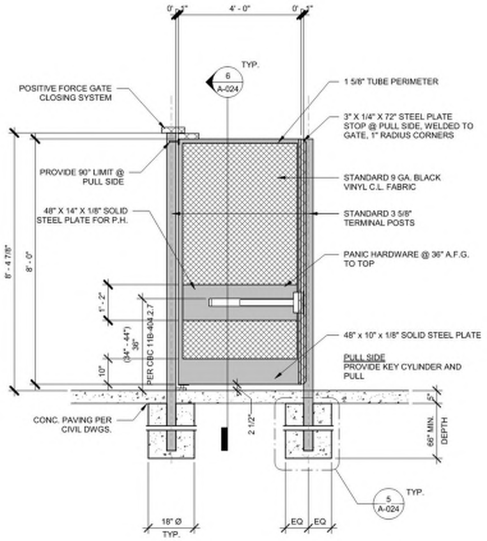
9 DECORATIVE STEEL DOUBLE GATE
1/4" = 1'-0"



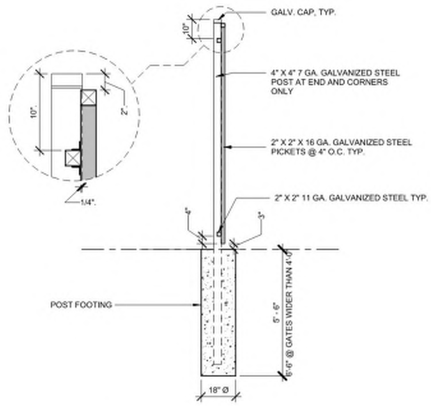
GENERAL NOTES

1. ALL METAL & MESH TO BE BLACK VINYLE AND POWDERCOAT TO MATCH EXISTING DECORATIVE FENCE
2. LEVER OR PULL LATCH ADA COMPLIANT HARDWARE - SHALL HAVE NO TIGHT GRASPING, PINCHING, OR TWISTING TO OPERATE & SHALL HAVE A 5LBS. MAX OPERATING FORCE. ALL SHARP EDGES INCLUDING BOLTS AND CREWS TO BE GRINDED SMOOTH.

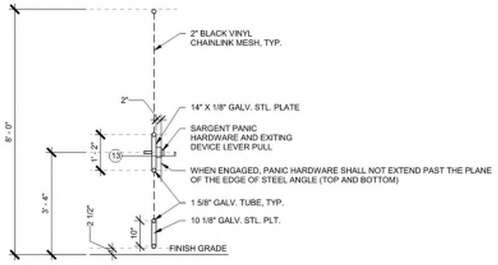
10 DECORATIVE STEEL SINGLE GATE
1/4" = 1'-0"



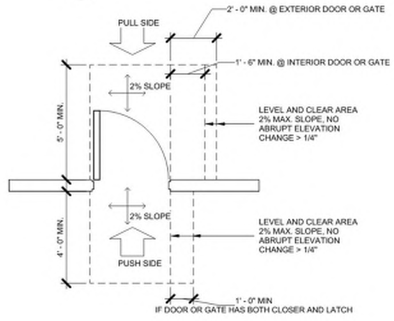
11 GATE ELEVATION
1/2" = 1'-0"



5 DECORATIVE STEEL FENCE SECTION
3/8" = 1'-0"



6 GATE PANIC HARDWARE SECTION
N.T.S.



7 ACCESSIBLE GATE CLEARANCE
N.T.S.

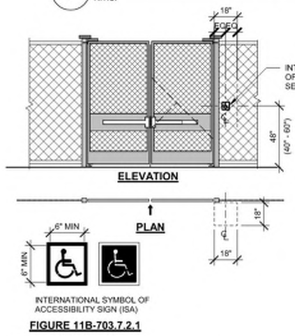
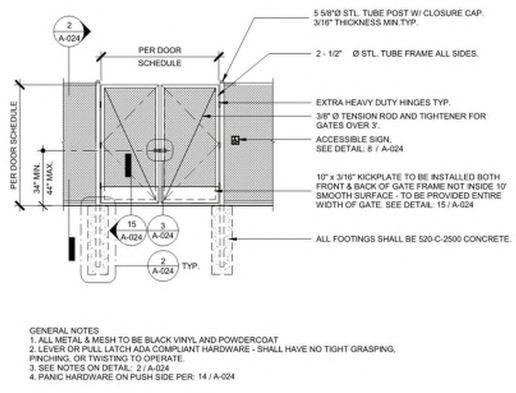


FIGURE 11B-703.7.2.1

GENERAL NOTES

1. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" (152mm) MIN. CHARACTERS AND BRAILE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
2. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
3. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE COLOR BLUE SHALL BE APPROXIMATE FS15090 IN FEDERAL STANDARD 595C. A BORDER MAY BE PROVIDED OUTSIDE OF THE MINIMUM REQUIRED INTERNATIONAL SYMBOL OF ACCESSIBILITY DIMENSION.

8 ACCESSIBLE GATE SIGNAGE
N.T.S.

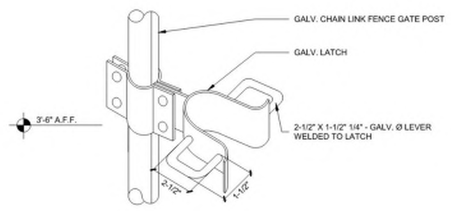


GENERAL NOTES
1. ALL METAL & MESH TO BE BLACK VINYL AND POWDERCOAT
2. LEVER OR PULL LATCH ADA COMPLIANT HARDWARE - SHALL HAVE NO TIGHT GRASPING, PINCHING, OR TWISTING TO OPERATE.
3. SEE NOTES ON DETAIL: 2 / A-024
4. PANIC HARDWARE ON PUSH SIDE PER: 14 / A-024

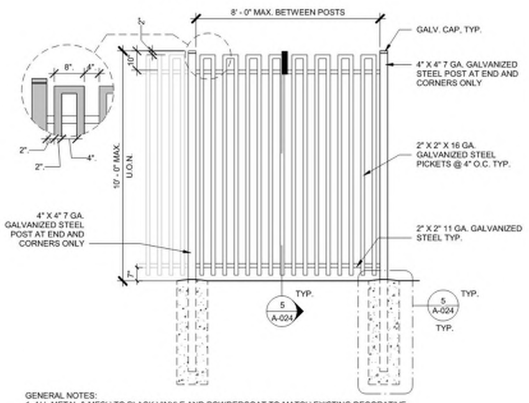
1 CHAIN LINK DOUBLE GATE & FENCE
1/4" = 1'-0"

NOTES:
1. CHAIN LINK FABRIC SHALL BE 2" MESH 9 GA. TYPICALLY WITHIN CAMPUS AND 1" MESH 9 GA. NO CLIMB FENCE AT PERIMETER/EXTERIOR FENCING.
2. ALL CHAIN LINK FABRIC SHALL BE KNUCKLED SALVAGE T & B
3. ALL FENCING SHALL HAVE A BOTTOM RAIL.
4. CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION
5. INSTALL CONCRETE BAND FLUSH WITH A.C. WHEN ADJUSTED TO A.C. PAVING TYP. ALL SIDES
6. ALL FENCE POST SHALL BE STANDARD ROUND PIPE (FY = 35 KSI)
7. ALL PERIMETER FENCE TO BE 10'-0" HIGH
8. SEE STANDARD SPECIFICATIONS FOR MATERIAL REQUIREMENTS AND INSTALLATION
9. ALL METAL POLES SHALL BE HOT DIPPED GALVANIZED

2 CHAIN LINK FENCE
3/4" = 1'-0"



3 CHAIN LINK FENCE LEVER
1 1/2" = 1'-0"



GENERAL NOTES:
1. ALL METAL & MESH TO BLACK VINYLE AND POWDERCOAT TO MATCH EXISTING DECORATIVE FENCE.
2. OPERATE SHALL HAVE A 5 LBS. MAX. OPERATING FORCE. ALL SHARP EDGES, INCLUDING BOLTS AND SCREWS TO BE GRINDED SMOOTH.

4 DECORATIVE STEEL FENCE ELEVATION
3/8" = 1'-0"

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SITE DETAILS - GATES & FENCING

A-024

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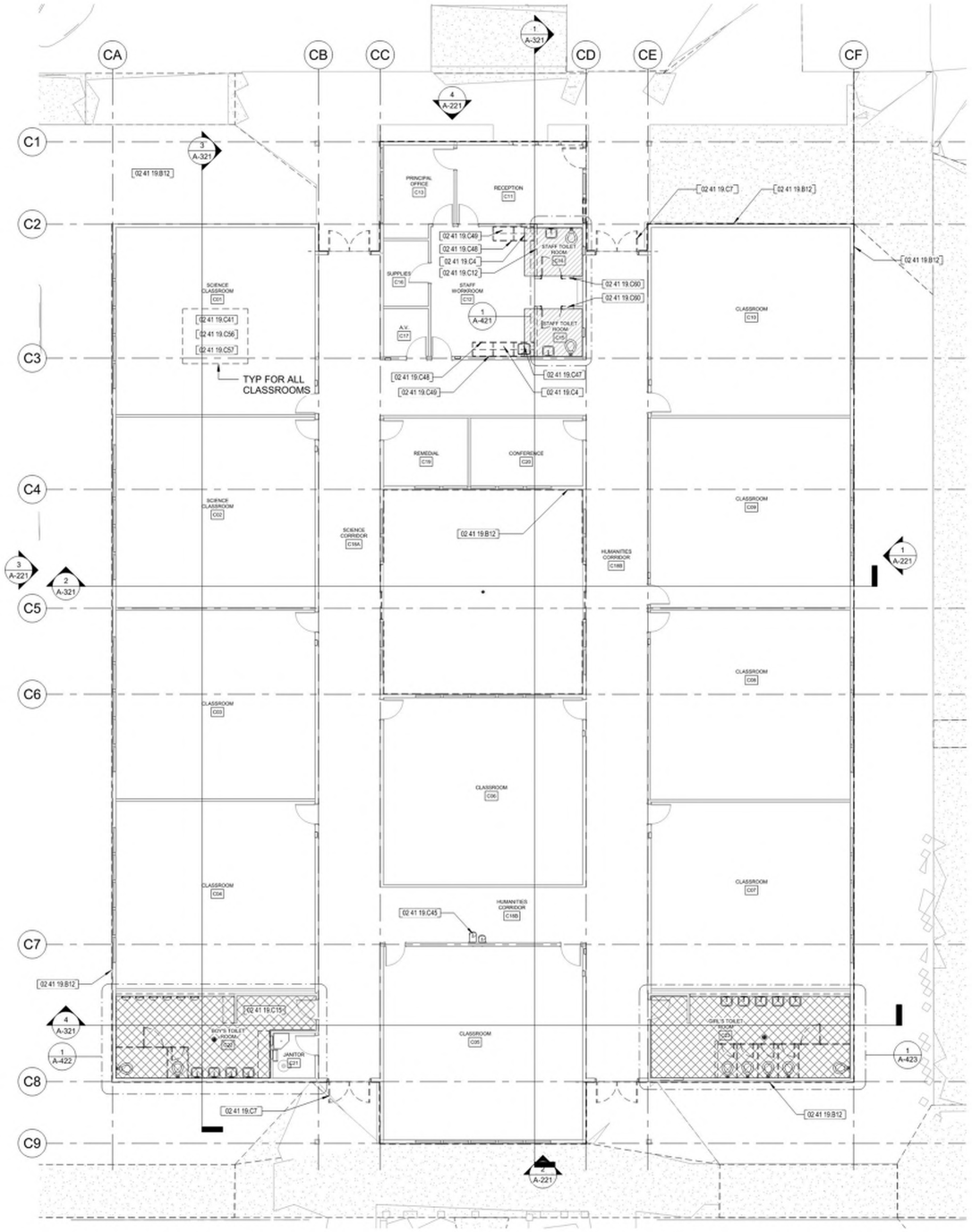

PLAN NORTH

TRUE NORTH

1 DEMOLITION FLOOR PLAN - BUILDING C
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO CIVIL SHEETS C-04, C-06 AND C-07 FOR UTILITY P.O.C. TO REMAIN.
2. REFER TO ELECTRICAL FOR SWITCH GEAR & TRANSFORMER LOCATION.
3. PROTECT (E) FIRE HYDRANT DURING DEMOLITION. MAINTAIN PROPER FUNCTION AND MAKE UNIT EASILY ACCESSIBLE FOR LOCAL FIRE AUTHORITY.
4. CONTRACTOR TO CONFIRM WITH DISTRICT ANY DEMO ITEMS TO BE SALVAGED FOR DISTRICT DISPOSITION.
5. ALL EXISTING UNDERGROUND UTILITIES THAT SERVICE EXISTING BUILDINGS TO BE DEMOLISHED ARE TO BE REMOVED IN THEIR ENTIRETY THROUGHOUT THE AREA OF SITE DEMOLITION AND GRADING. CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES SHOWN ON THESE PLANS AND/OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. REFER TO LANDSCAPE DRAWINGS L0.1 FOR ALL TREE, LANDSCAPING, PLANTING AND IRRIGATION PROTECTION AND REMOVAL.
7. DEMOLITION PLANS ARE BASED ON COMBINATION OF ON-SITE INVESTIGATION AND REVIEW OF AS-BUILT DOCUMENTATION FROM MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT.
8. MISCELLANEOUS ACTIVE OR ABANDONED IN PLACE IRRIGATIONS LINES, WATER LINES, STORM DRAIN LINES, HIGH AND LOW PRESSURE GAS LINES, ELECTRICAL CONDUITS, LOW-VOLTAGE SYSTEMS INCLUDING TELEPHONE, FIRE ALARM AND TECHNOLOGY CONDUITS AND WIRING MAY BE ENCOUNTERED DURING SITE EXCAVATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ANY SYSTEMS INDICATED OR NOT INDICATED ON THE DEMOLITION PLAN AND TRACE BACK ANY LIVE SYSTEMS TO SOURCE AND CAP OFF AND REMOVE AND DISPOSE. SEE SECTION 02 41 19 "SELECTED DEMOLITION" PROCEDURES AND REQUIREMENTS.
10. INDIVIDUAL PORTABLE CLASSROOM LAYOUT VARIES. CONTRACTOR TO VERIFY IN THE FIELD.
11. DIG ALERT: CALL 1-800-227-2600 TWO WORKING DAYS BEFORE DIGGING

KEYNOTES

02 41 19.B12	REMOVE EXPOSED AGGREGATE EPOXY MATRIX AND PLYWOOD SHEATHING (PROTECT IN PLACE SHEAR PANELS & STUDS)
02 41 19.C4	CASEWORK AND BASE TO BE REMOVED
02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C12	WALL TO BE REMOVED
02 41 19.C15	GYPSUM BOARD TO BE REMOVED
02 41 19.C41	CARPET TO BE REMOVED
02 41 19.C45	REMOVE DRINKING FOUNTAIN AND ASSEMBLY, SEE PLUMBING
02 41 19.C47	REMOVE PLUMBING FIXTURE AND ASSEMBLY
02 41 19.C48	REMOVE COUNTERTOP
02 41 19.C49	REMOVE UPPER CASEWORK
02 41 19.C56	REMOVE AND STORE ALL WALL MOUNTED ITEMS SUCH AS CHALK & TACK BOARDS AND DISPLAYS
02 41 19.C57	REMOVE WALL PAPER AND PREP WALL WITH A LEVEL 3 ORANGE PEAL FINISH
02 41 19.C60	REMOVE EXISTING 6" CONCRETE CURB

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WINDOW & FRAME TO BE DEMOLISHED
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING OPENING TO REMAIN
- EXISTING ROOF OVERHANG
- SAWCUT EDGE AND DEMOLISH AREA AS INDICATED, AS REQUIRED FOR INSTALLATION OF NEW PLUMBING LINES AND INSTALLATION OF NEW DEPRESSED SLAB AND 2" MORTAR BED PER STRUCTURAL.
- REMOVE FLOOR TILE & SETTING BED. REMOVE CONCRETE CURB ON WALLS TO BE REMOVED

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JEFFREY S. STRATTON
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

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DEMOLITION FLOOR PLAN - BUILDING C

A-120

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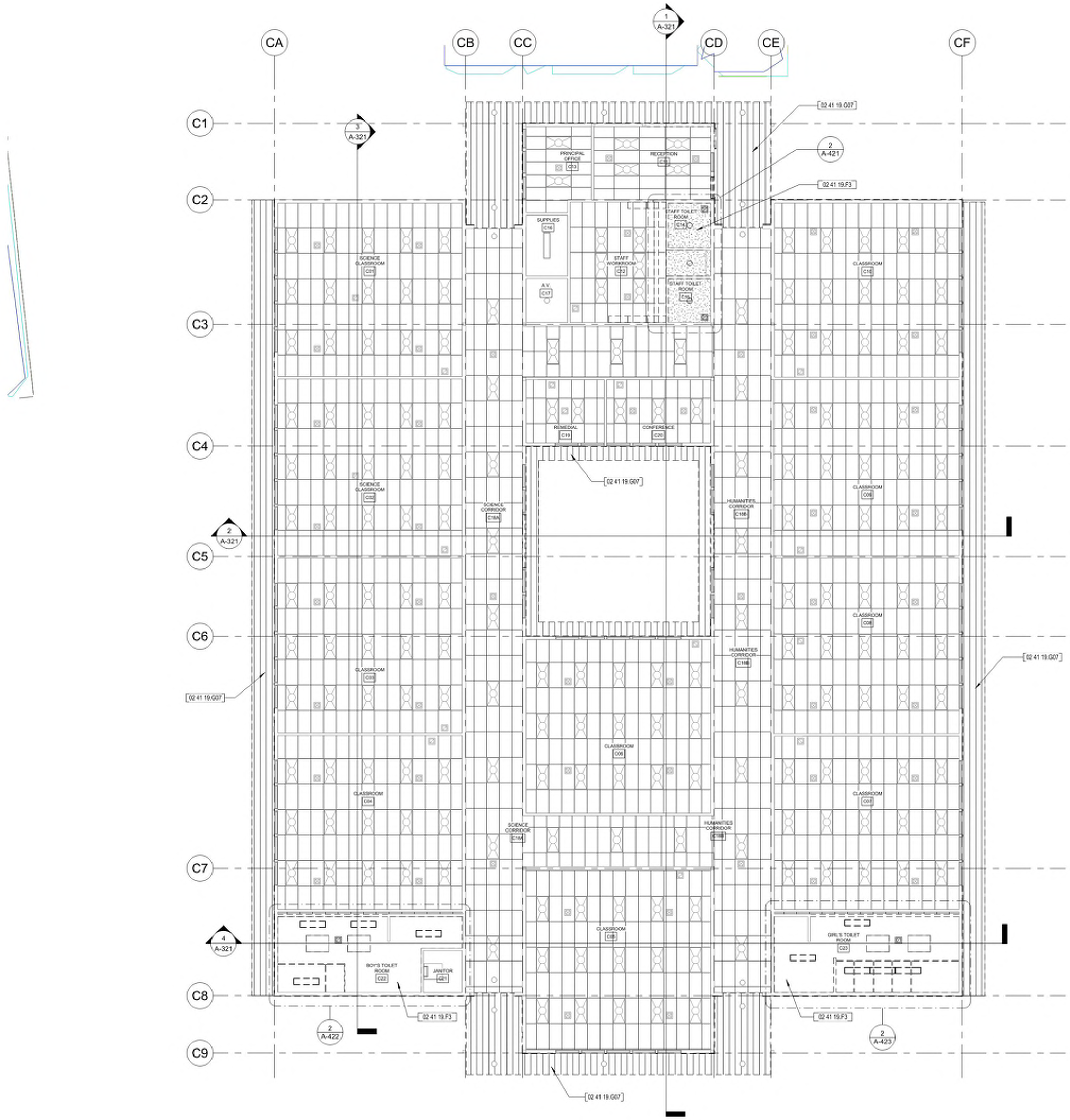

NOTE: ALL CEILINGS EXISTING TO REMAIN U.N.O.

PLAN NORTH   TRUE NORTH

1 DEMOLITION RCP - BUILDING C
1/8" = 1'-0"

GENERAL NOTES

1. UNDERSIDE OF GYPSUM WALLBOARD SOFFITS AND BULKHEADS TO RECEIVE PT-1 FINISH UNLESS NOTED OTHERWISE.
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. FOR CEILING HEIGHTS REFER TO ROOM FINISH SCHEDULE ON SHEET I-100.
4. CEILING ACCESS PANELS EXACT LOCATION TO BE COORDINATED AND VERIFIED IN FIELD UNLESS SPECIFIED OTHERWISE.

KEYNOTES

02 41 19.F3	REMOVE EXISTING GYPSUM BOARD CEILING AND CEILING JOISTS
02 41 19.G07	REMOVE EXISTING WOOD SOFFIT PROTECT SOFFIT FRAMING IN PLACE

LEGEND

- EXISTING GYP. BOARD CEILING TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO BE REMOVED
- EXISTING LIGHTING FIXTURE TO BE REMOVED
- MECHANICAL GRILLE TO BE REMOVED
- EXISTING WOOD ROOF SOFFIT TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO REMAIN
- EXISTING LIGHTING FIXTURE TO REMAIN
- MECHANICAL GRILLE TO REMAIN

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DEMOLITION RCP - BUILDING C

A-121

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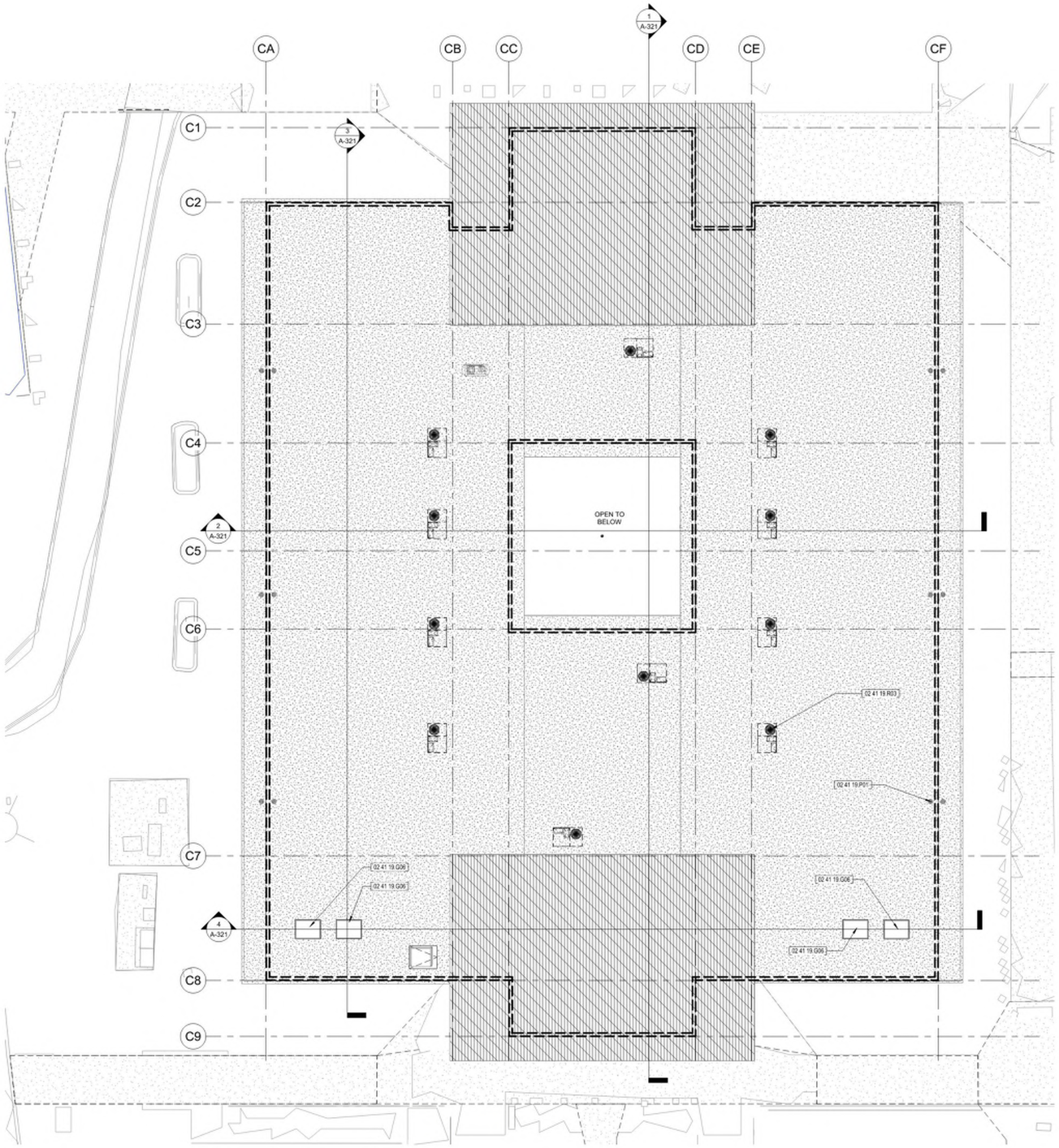

PLAN NORTH TRUE NORTH

1 DEMOLITION ROOF PLAN - BUILDING C
1/8" = 1'-0"

KEYNOTES

02 41 19.G06	EXISTING SKYLIGHT TO REMAIN
02 41 19.P01	ROOF DRAIN TO REMAIN, PROTECT IN PLACE, TYP
02 41 19.R03	REMOVE MECHANICAL EQUIPMENT, TYP

LEGEND

- BUILT UP ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- ASPHALT ROOFING SHINGLES TO BE REMOVED AND STRUCTURE TO REMAIN
- METAL STANDING SEAM ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- EXISTING EXTERIOR WALL BELOW
- EXISTING ROOF ACCESS HATCH TO REMAIN
- SCUPPER AND LEADER
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN

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DEMOLITION ROOF PLAN - BUILDING C

A-122

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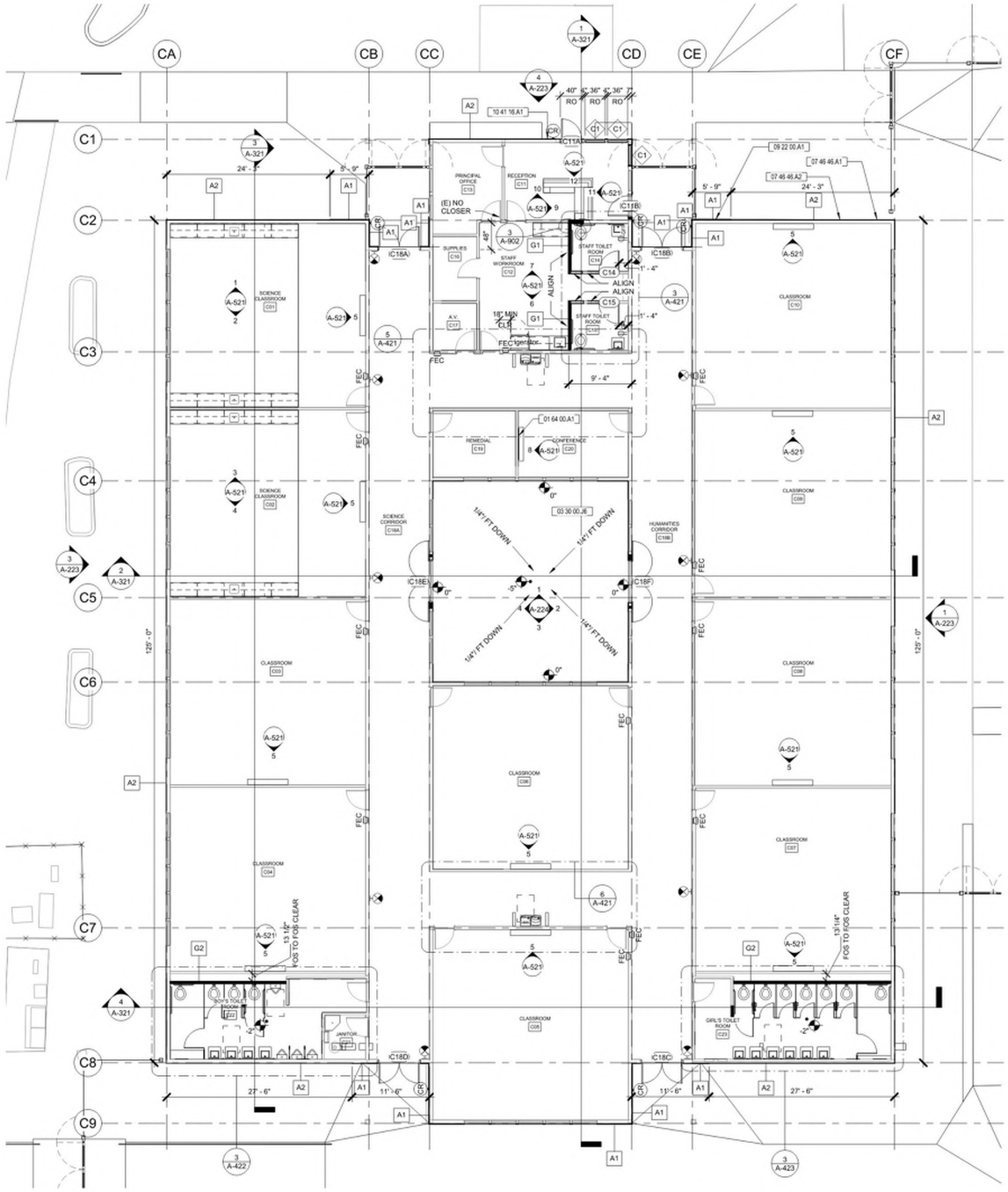

1 FLOOR PLAN - BUILDING C
1/8" = 1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES

1. CONTRACTOR TO REVIEW INTERIOR ELEVATIONS, AND CONFIRM WALL ASSEMBLY APPROPRIATE FOR FINISHES AT WET AREAS, KITCHEN, RESTROOMS, AND JANITOR CLOSETS.
2. CONTRACTOR TO REVIEW ELEVATIONS FOR WINDOW VARIATIONS ON WINDOW SCHEDULE.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
5. LOCATE NEW DOORS FRAMES SO HINGED SIDE IS 3 INCHES FROM EDGE OF FRAME TO FACE OF PERPENDICULAR STUD, UNLESS OTHERWISE NOTED.
6. DIMENSIONS AT DOOR FRAMES ARE TO ROUGH OPENING.
7. CONTRACTOR TO REVIEW INTERIOR ELEVATIONS, AND CONFIRM WALL ASSEMBLY APPROPRIATE FOR FINISHES AT WET AREAS, KITCHEN, RESTROOMS, AND JANITOR CLOSETS.
8. ALL DOORS AND WINDOWS WITHOUT SCHEDULE NUMBER ARE EXISTING TO REMAIN, NO CHANGE.
9. ALL EXISTING DOORS HAVE LEVER TYPE HARDWARE.
10. DOORS SCHEDULED ON SHEET A-800.
11. WINDOWS SCHEDULED ON SHEET A- 810
12. WALL TYPES SCHEDULED ON SHEETS A-700, A-701 & A-702.

KEYNOTES

01 64 00.A1	FLAT-PANEL TELEVISION
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 46 46.A2	FIBRE CEMENT SIDING - GROOVED-TEXTURED FINISH
09 22 00.A1	PORTLAND CEMENT PLASTER W/ ACRYLIC SMOOTH FINISH
10 41 16.A1	EMERGENCY KEY BOX

LEGEND

EXTERIOR WALL:
PORTLAND CEMENT PLASTER ON METAL LATH ON (2) LAYERS OF #15 ASPHALT FELT ON 1/2" PLYWOOD ON WOOD FRAMING, SIZE PER STRUCTURAL DRAWINGS.
SEE SHEET A-700 FOR WALL TYPES

EXTERIOR WALL:
NEW FIBER CEMENT BOARD ON (2) LAYERS OF #15 ASPHALT FELT ON EXISTING WOOD FRAMING WALL, REPLACE BATT INSULATION WITH R-19 BATT INSULATION.
SEE SHEET A-700 FOR WALL TYPES

EXTERIOR WALL:
NEW FIBER CEMENT BOARD ON (2) LAYERS OF #15 ASPHALT FELT ON PLYWOOD SHEAR PANEL, SIZE PER STRUCTURAL DRAWINGS, ON EXITING WOOD FRAMING, REPLACE BATT INSULATION WITH R-19 BATT INSULATION.
SEE SHEET A-700 FOR WALL TYPES

INTERIOR WALL:
SEE SHEET A-702 FOR WALL TYPES

FEC — SEMI-RECESSED FIRE EXTINGUISHER, SEE DETAIL 5/A-903

WINDOW OR STOREFRONT, PER SCHEDULE

101 — DOOR, PER SCHEDULE

FD — FLOOR DRAIN, SEE PLUMBING DRAWINGS

CR — CARD READER - 48" MAX TO TOP OF MECHANISM

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FLOOR PLAN - BUILDING C

A-123

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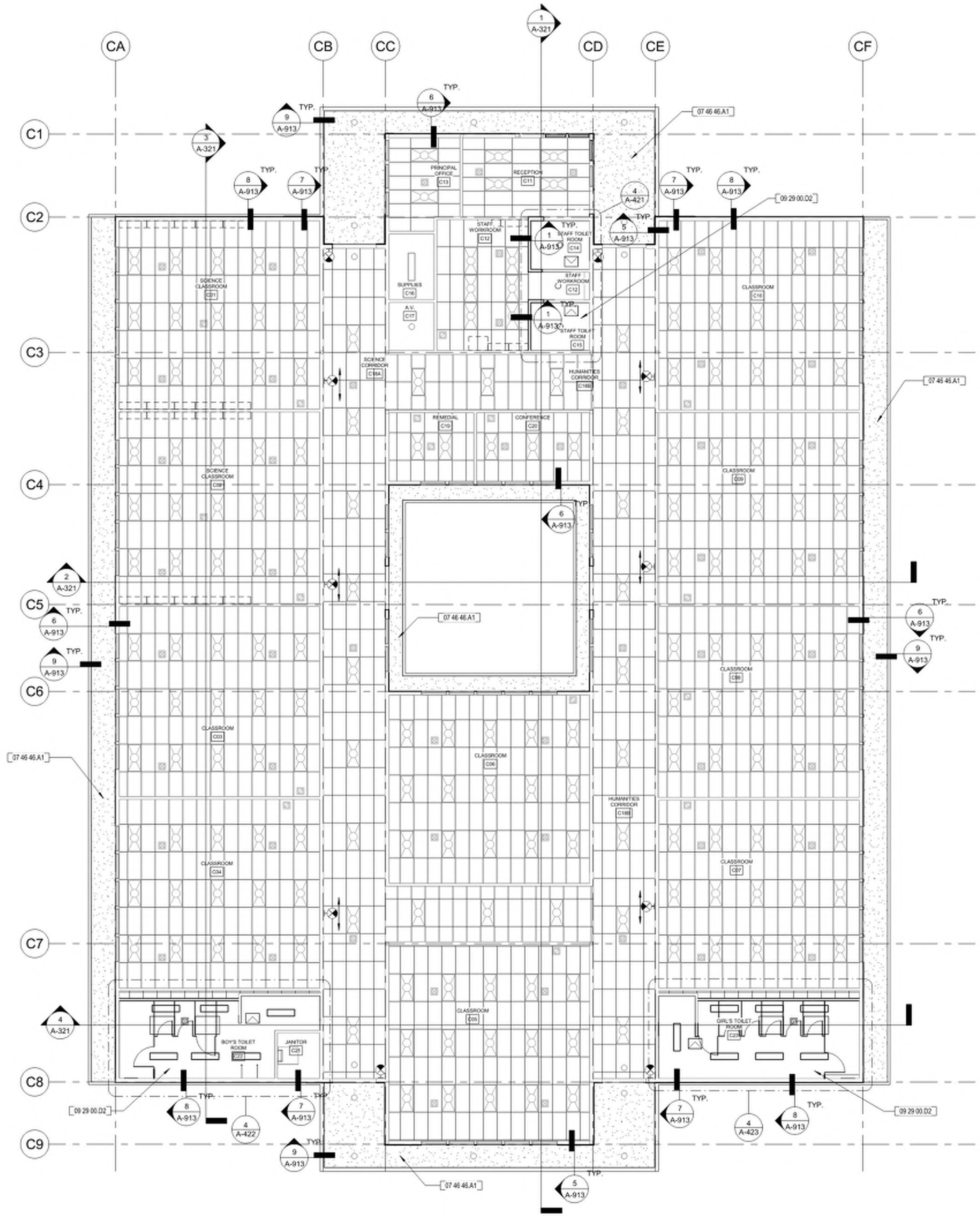

1 RCP - BUILDING C
1/8" = 1'-0"

GENERAL NOTES

1. UNDERSIDE OF GYPSUM WALLBOARD SOFFITS AND BULKHEADS TO RECEIVE PT-1 FINISH UNLESS NOTED OTHERWISE.
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. FOR CEILING HEIGHTS REFER TO ROOM FINISH SCHEDULE ON SHEET I-100.
4. CEILING ACCESS PANELS EXACT LOCATION TO BE COORDINATED AND VERIFIED IN FIELD UNLESS SPECIFIED OTHERWISE.

KEYNOTES

07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
09 29 00.D2	1 LAYER 5/8" GYPSUM BOARD

LEGEND

- 2 X 4 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 2 X 2 SUSPENDED ACOUSTICAL CEILING SYSTEM
- GYPSUM CEILING
- PLASTER CEILING / CEMENT BOARD SOFFIT
- PENDANT LIGHT FIXTURE, PER SCHEDULE
- RECESSED CAN LIGHT FIXTURE, PER SCHEDULE
- 24" X 24" LIGHT FIXTURE, PER SCHEDULE
- 24" X 48" LIGHT FIXTURE, PER SCHEDULE
- 12" X 48" LIGHT FIXTURE, PER SCHEDULE
- SURFACE MOUNTED LIGHT FIXTURE, PER SCHEDULE
- 2 X 2 SUPPLY AIR REGISTER
- 2 X 2 RETURN AIR REGISTER
- 2 X 2 EXHAUST AIR REGISTER
- LINEAR DIFFUSER
- ILLUMINATED EXIT SIGN

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LICENSED ARCHITECT
NO. C28099
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

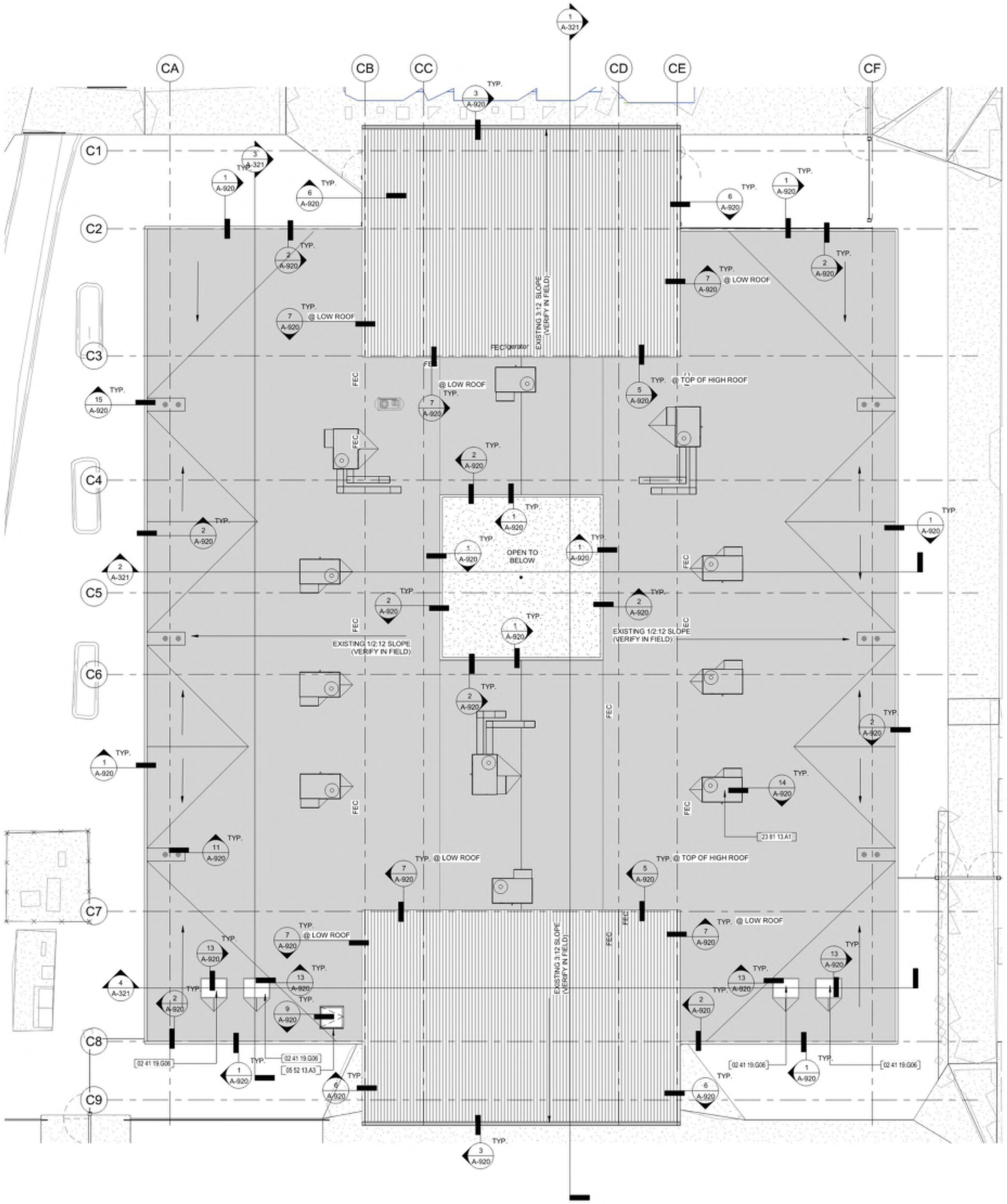
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

RCP - BUILDING C

A-124

9/27/2022 9:24:48 AM



1 ROOF PLAN - BUILDING C
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

GENERAL NOTES

1. ALL ROOF PENETRATION TO BE 18" MINIMUM CLEAR FROM STRUCTURAL SYSTEM
2. ATTIC VENTILATION: BUILDING SHOULD BE PROVIDED WITH NATURAL VENTILATION IN ACCORDANCE WITH 1202.2.1 OR WITH CALIFORNIA MECHANICAL CODE. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED.

KEYNOTES

02 41 19.G06	EXISTING SKYLIGHT TO REMAIN
05 52 13.A3	CURB MOUNT HATCH SAFETY RAIL SYSTEM, REFER TO 19/A-920
23 81 13.A1	HVAC ROOF PACKAGE UNIT, TYP

LEGEND

- WALL BELOW
- EXTERIOR WALL WITH METAL PARAPET CAP
- OVERHEAD ROOF OR UNDER SIDE OF ROOF
- EXISTING ROOF ACCESS HATCH TO REMAIN
- NEW BUILT UP ROOFING
- NEW ASPHALT SHINGLES
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN
- NEW CONCRETE STEM WALL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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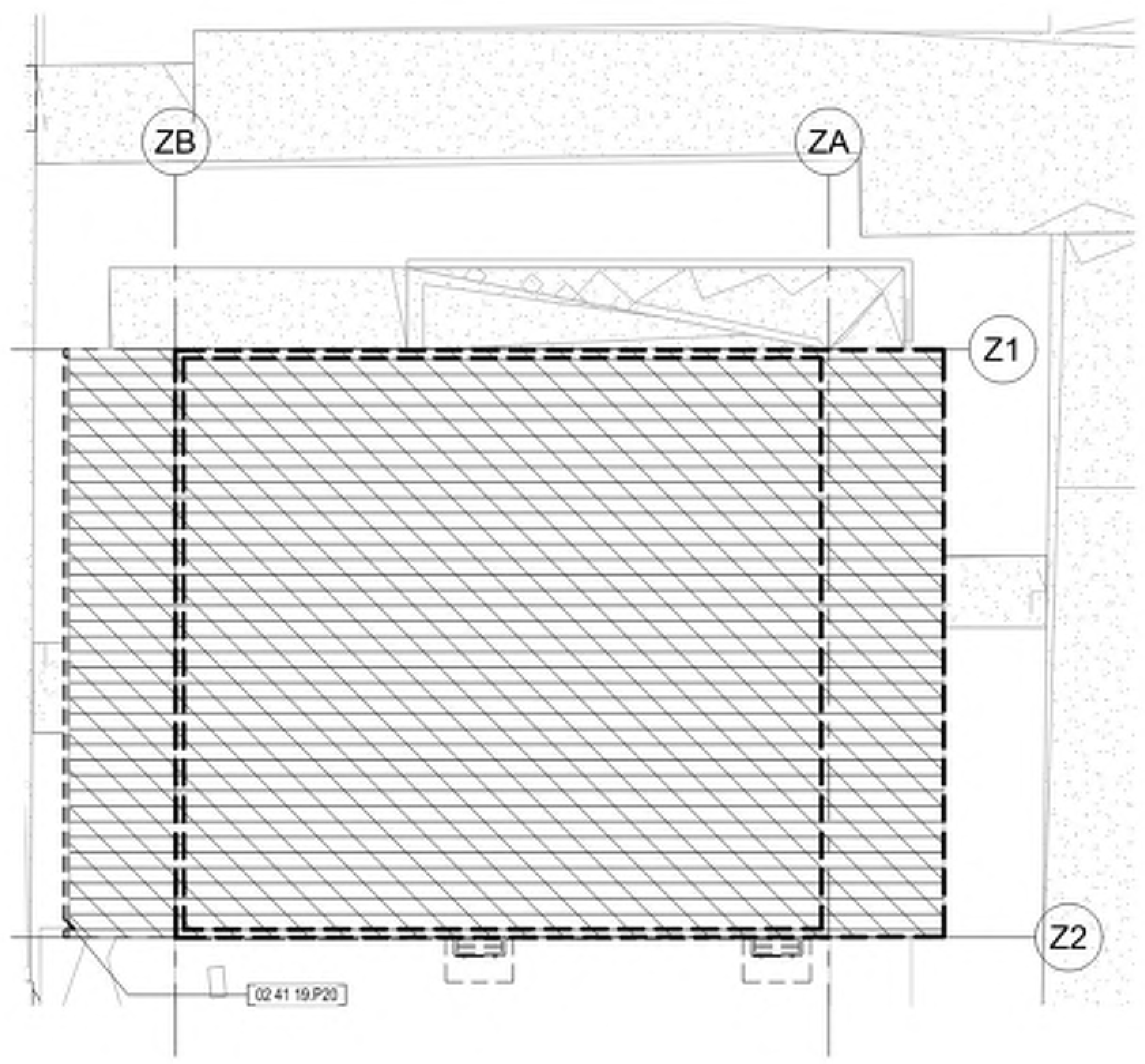
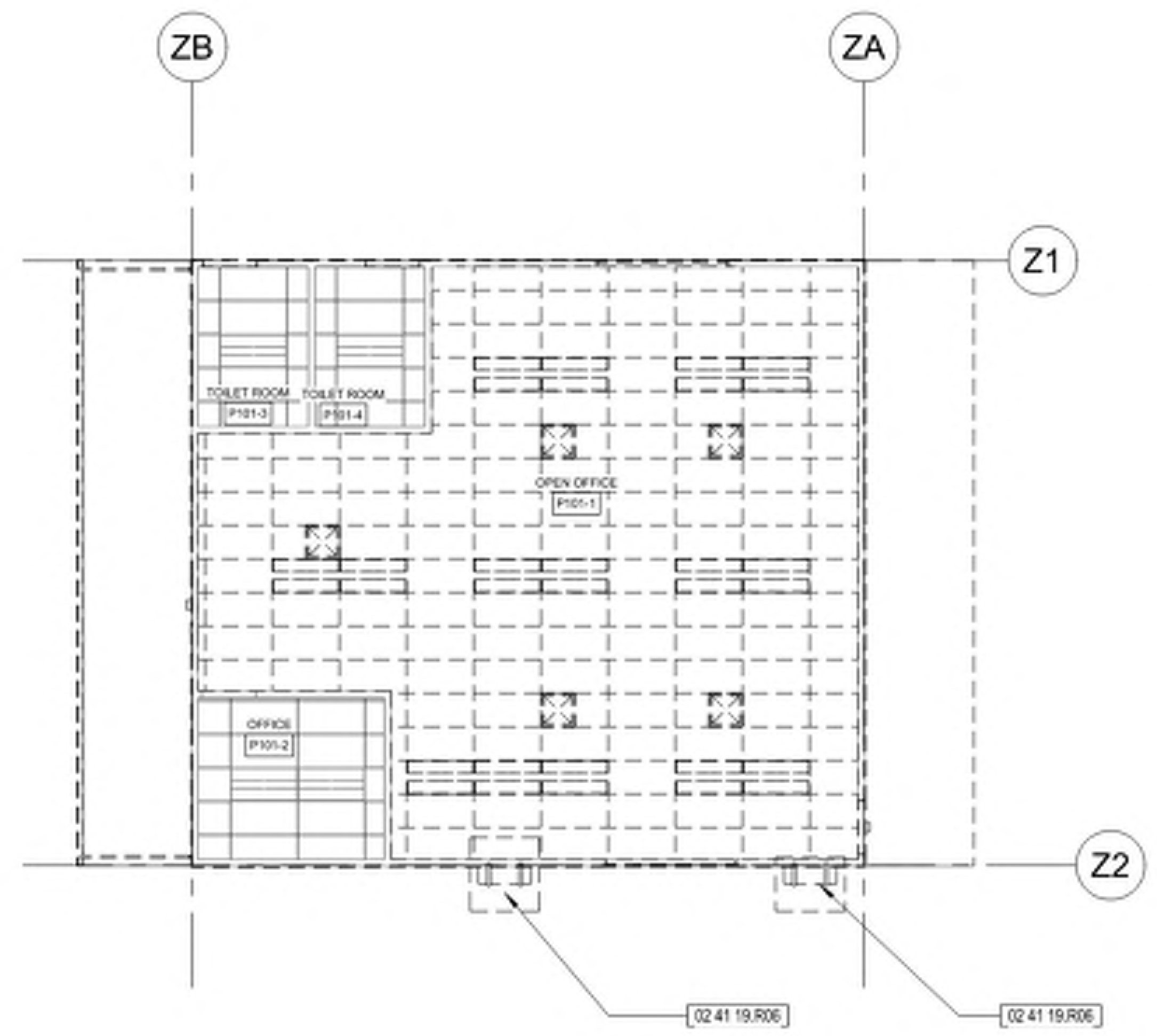
ROOF PLAN - BUILDING C

A-125

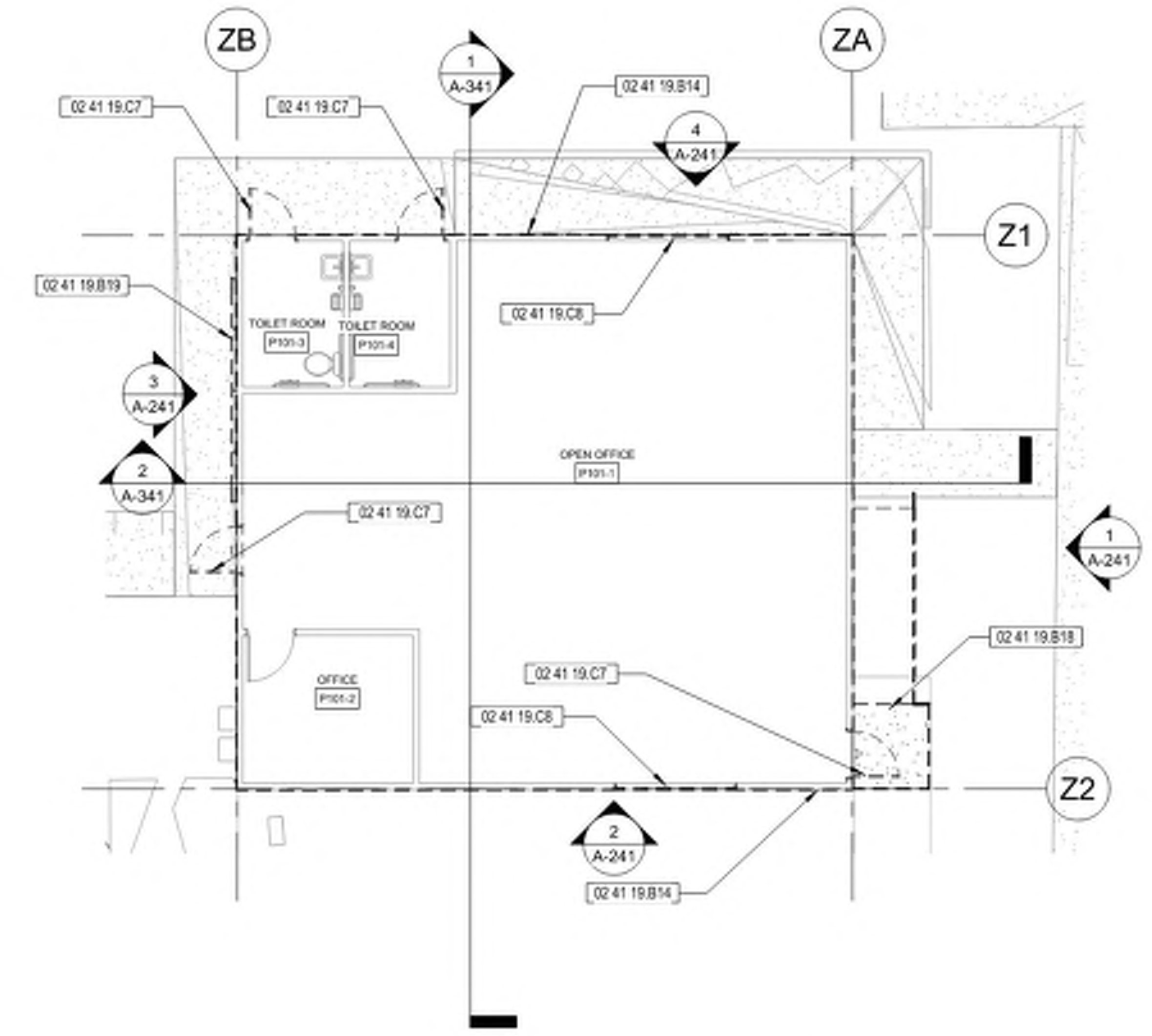
9/27/2022 9:24:55 AM



3 BUILDING P101 - DEMOLITION ROOF PLAN
1/8" = 1'-0"



2 BUILDING P101 - DEMOLITION RCP
1/8" = 1'-0"



1 BUILDING P101 - DEMOLITION FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES

1. REFER TO CIVIL SHEETS C-04, C-06 AND C-07 FOR UTILITY P.O.C. TO REMAIN.
2. REFER TO ELECTRICAL FOR SWITCH GEAR & TRANSFORMER LOCATION.
3. PROTECT (E) FIRE HYDRANT DURING DEMOLITION, MAINTAIN PROPER FUNCTION AND MAKE UNIT EASILY ACCESSIBLE FOR LOCAL FIRE AUTHORITY.
4. CONTRACTOR TO CONFIRM WITH DISTRICT ANY DEMO ITEMS TO BE SALVAGED FOR DISTRICT DISPOSITION.
5. ALL EXISTING UNDERGROUND UTILITIES THAT SERVICE EXISTING BUILDINGS TO BE DEMOLISHED ARE TO BE REMOVED IN THEIR ENTIRETY THROUGHOUT THE AREA OF SITE DEMOLITION AND GRADING. CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES SHOWN ON THESE PLANS AND/OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. REFER TO LANDSCAPE DRAWINGS L0.1 FOR ALL TREE, LANDSCAPING, PLANTING AND IRRIGATION PROTECTION AND REMOVAL.
7. DEMOLITION PLANS ARE BASED ON COMBINATION OF ON-SITE INVESTIGATION AND REVIEW OF AS-BUILT DOCUMENTATION FROM MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT.
8. MISCELLANEOUS ACTIVE OR ABANDONED IN PLACE IRRIGATIONS LINES, WATER LINES, STORM DRAIN LINES, HIGH AND LOW PRESSURE GAS LINES, ELECTRICAL CONDUITS, LOW-VOLTAGE SYSTEMS INCLUDING TELEPHONE, FIRE ALARM AND TECHNOLOGY CONDUITS AND WIRING MAY BE ENCOUNTERED DURING SITE EXCAVATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ANY SYSTEMS INDICATED OR NOT INDICATED ON THE DEMOLITION PLAN AND TRACE BACK ANY LIVE SYSTEMS TO SOURCE AND CAP OFF AND REMOVE AND DISPOSE. SEE SECTION 02 41 19 "SELECTED DEMOLITION" PROCEDURES AND REQUIREMENTS.
10. INDIVIDUAL PORTABLE CLASSROOM LAYOUT VARIES. CONTRACTOR TO VERIFY IN THE FIELD.
11. DIG ALERT: CALL 1-800-227-2600 TWO WORKING DAYS BEFORE DIGGING

KEYNOTES

02 41 19.B14	REMOVE EXTERIOR WOOD SIDING AND SHEATHING, (STUDS TO REMAIN, PROTECT IN PLACE)
02 41 19.B18	DEMOLISH EXISTING COMPOSITE RAMP, LANDING & RAILINGS
02 41 19.B19	REMOVE EXISTING WALL MOUNT METAL HANDRAIL
02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C8	REMOVE WINDOW, FRAME AND ASSEMBLY, TYP
02 41 19.P20	REMOVE EXISTING GUTTER AND DOWNSPOUTS
02 41 19.R06	EXISTING WALL MOUNT HVAC UNIT TO BE REMOVED, REMOVE ALL ASSOCIATED DUCTING & REGISTERS

ROOF PLAN

LEGEND

- BUILT UP ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- ASPHALT ROOFING SHINGLES TO BE REMOVED AND STRUCTURE TO REMAIN
- METAL STANDING SEAM ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- EXISTING EXTERIOR WALL BELOW
- EXISTING ROOF ACCESS HATCH TO REMAIN
- SCUPPER AND LEADER
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN

RCP

LEGEND

- EXISTING GYP. BOARD CEILING TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO BE REMOVED
- EXISTING LIGHTING FIXTURE TO BE REMOVED
- MECHANICAL GRILLE TO BE REMOVED
- EXISTING WOOD ROOF SOFFIT TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO REMAIN
- EXISTING LIGHTING FIXTURE TO REMAIN
- MECHANICAL GRILLE TO REMAIN

FLOOR PLAN

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WINDOW & FRAME TO BE DEMOLISHED
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING OPENING TO REMAIN
- EXISTING ROOF OVERHANG
- SAWCUT EDGE AND DEMOLISH AREA AS INDICATED, AS REQUIRED FOR INSTALLATION OF NEW PLUMBING LINES AND INSTALLATION OF NEW DEPRESSED SLAB AND 2" MORTAR BED PER STRUCTURAL.
- REMOVE FLOOR TILE & SETTING BED. REMOVE CONCRETE CURB ON WALLS TO BE REMOVED

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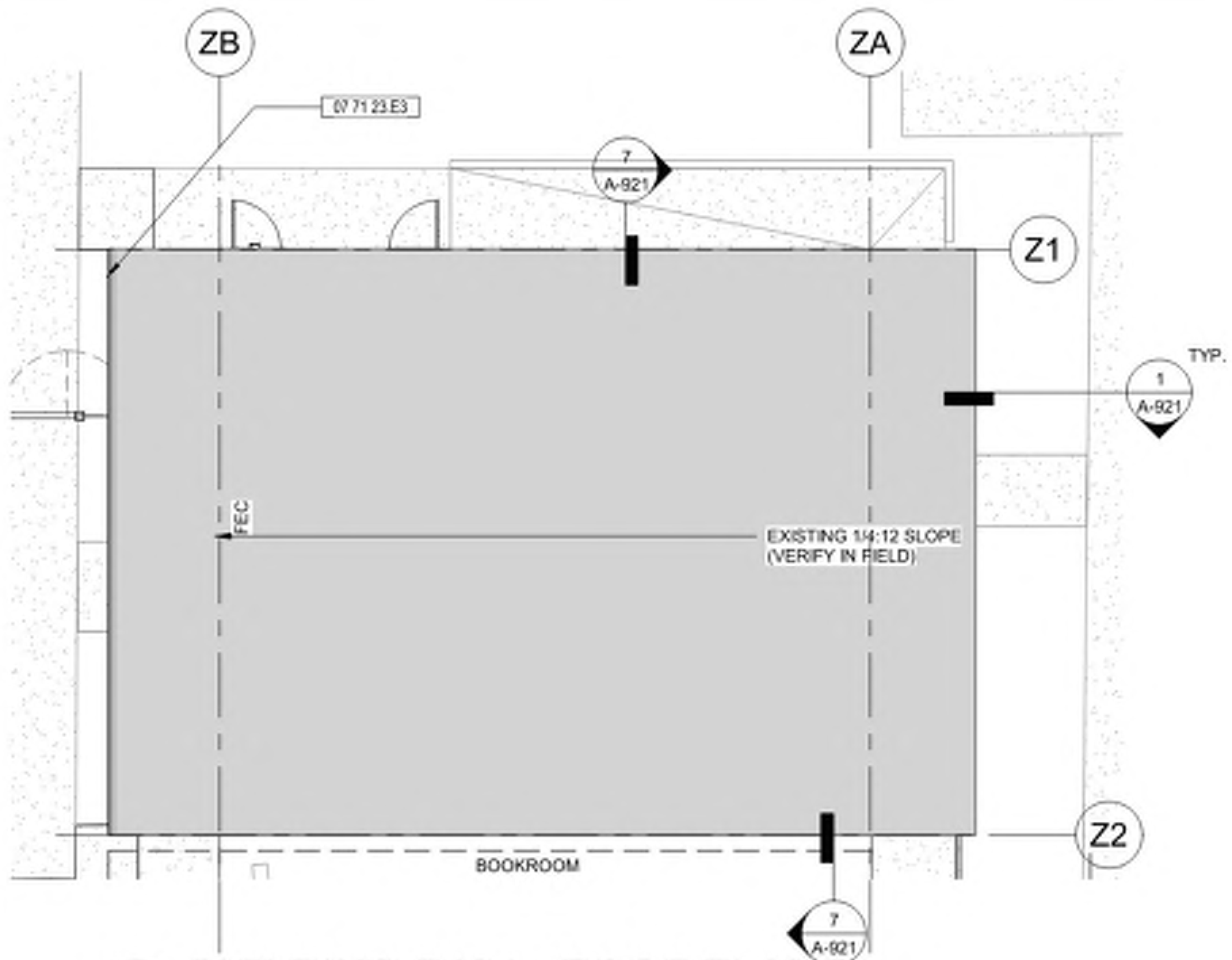
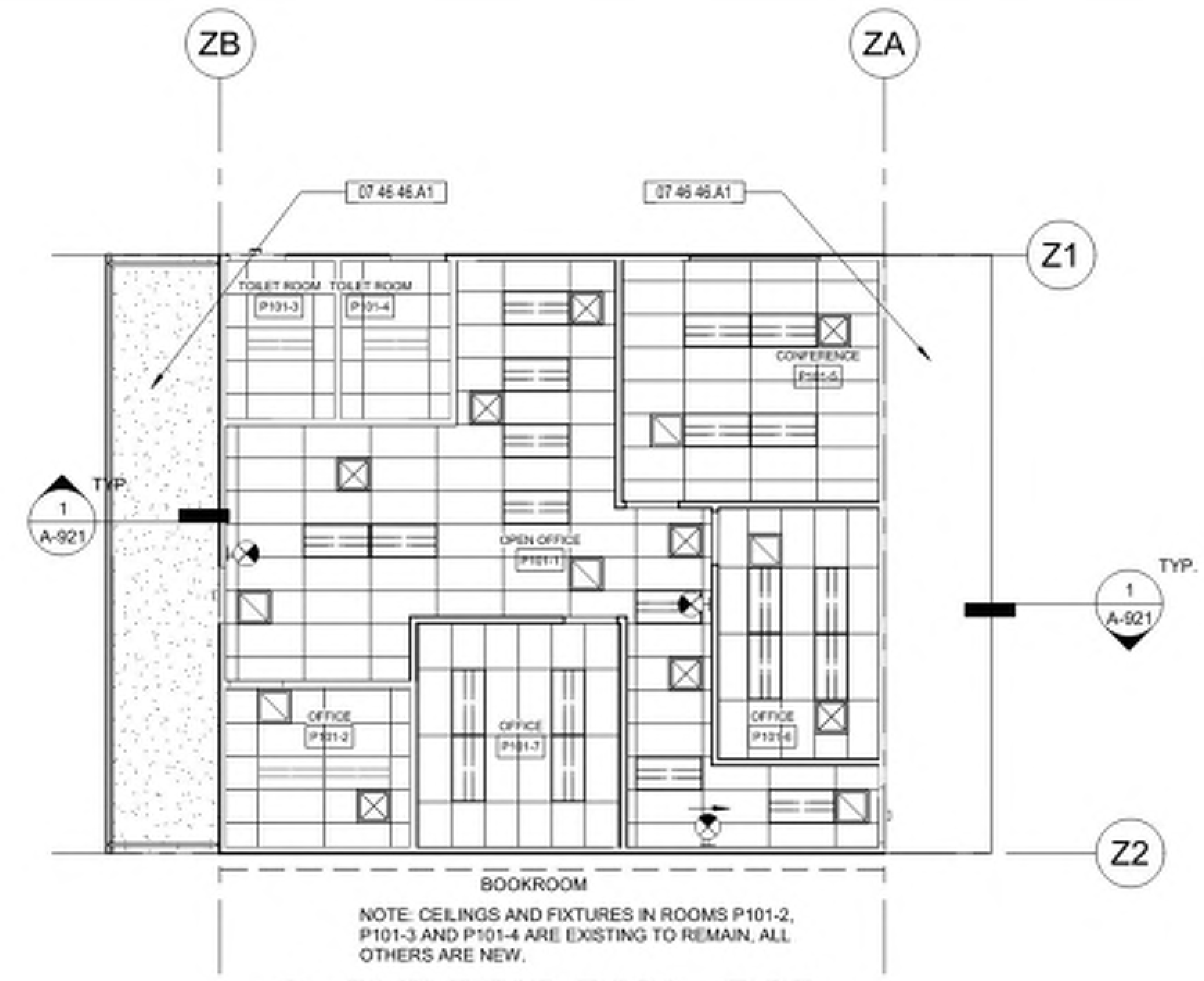
DEMOLITION PLANS - BUILDING P101 (FLOOR PLAN, RCP, ROOF PLAN)

A-140

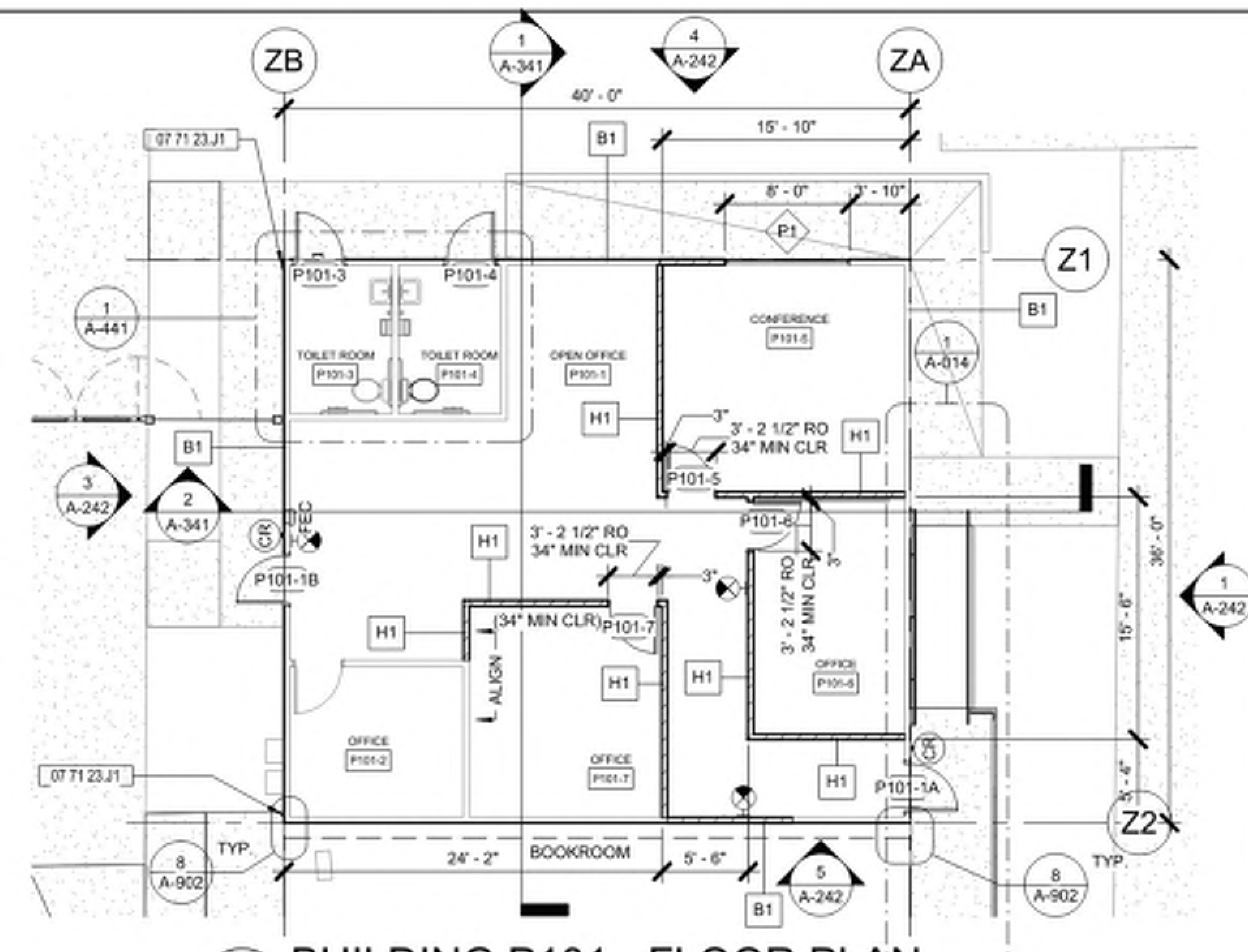
9/27/2022 9:25:00 AM



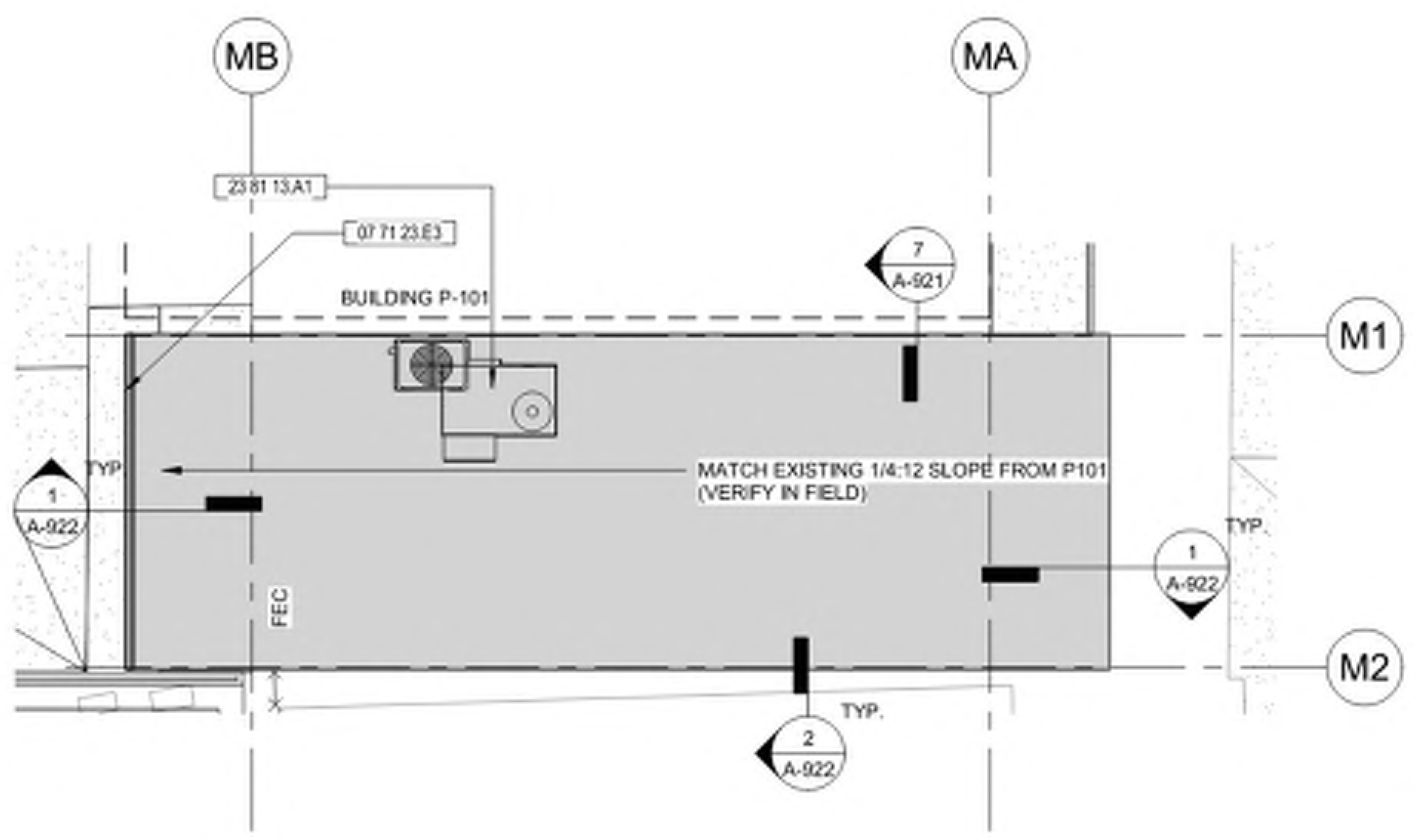
5 BUILDING P101 - ROOF PLAN
1/8" = 1'-0"



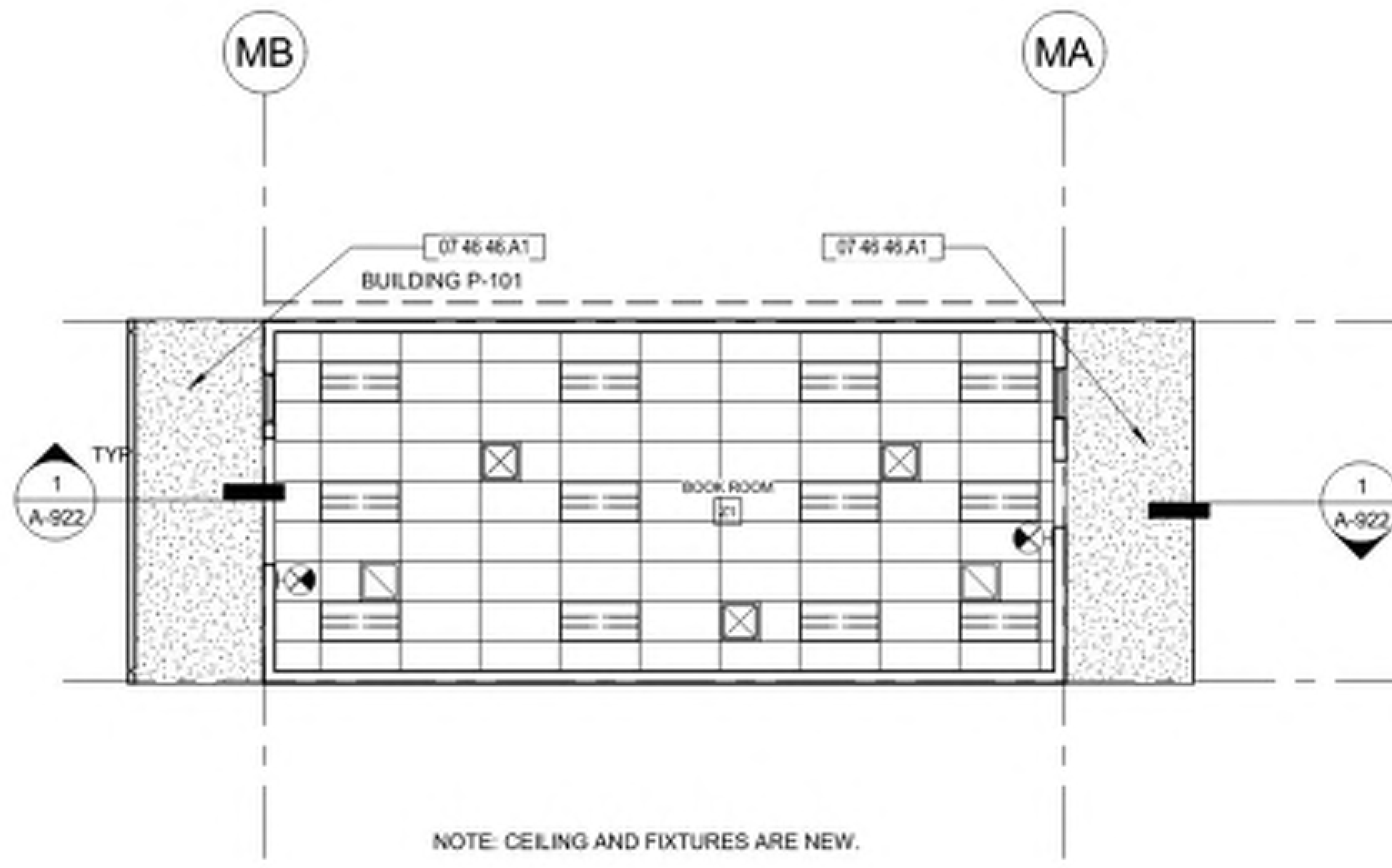
3 BUILDING P101 - RCP
1/8" = 1'-0"



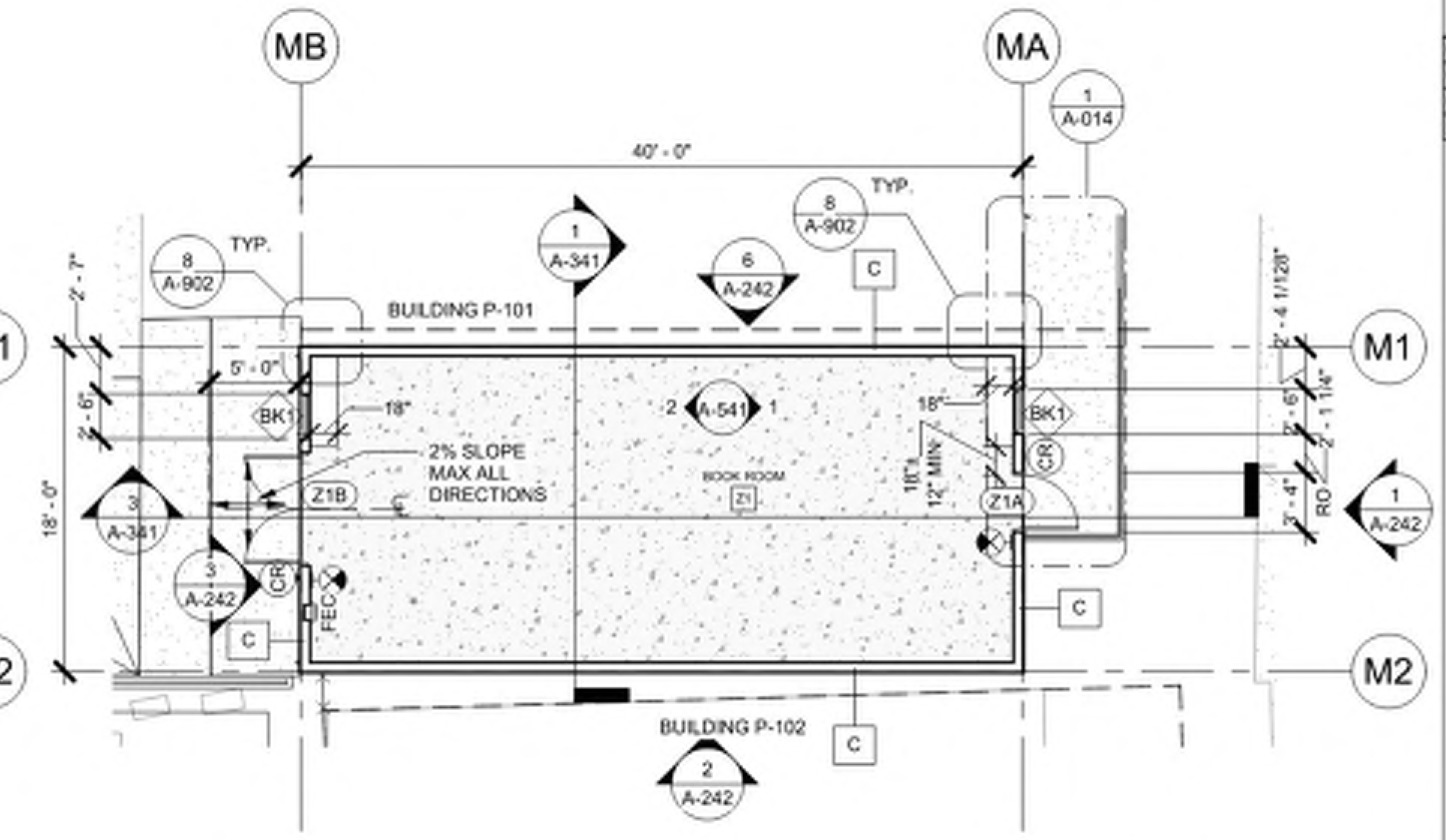
1 BUILDING P101 - FLOOR PLAN
1/8" = 1'-0"



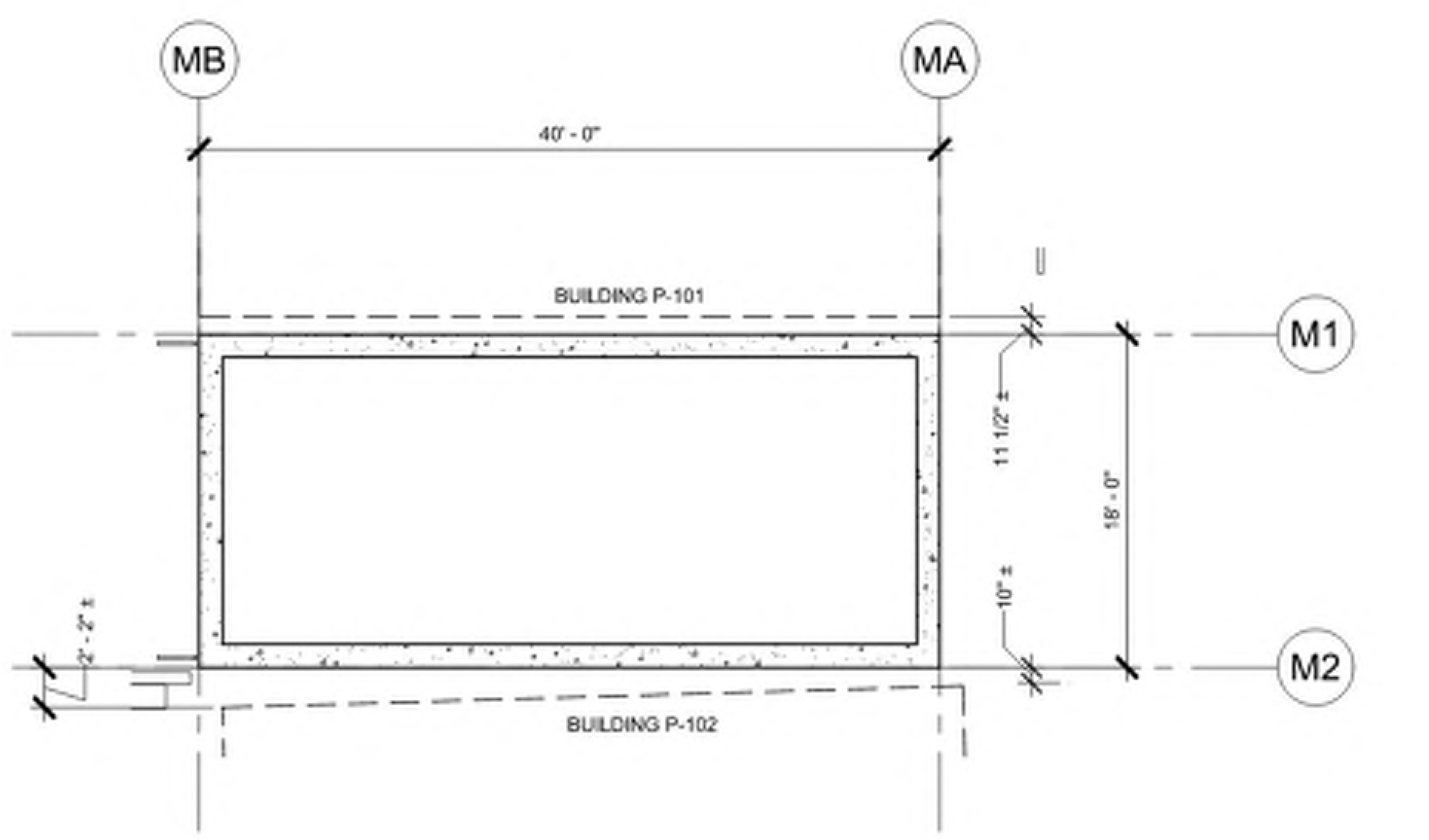
6 BUILDING BOOKROOM - ROOF PLAN
1/8" = 1'-0"



4 BUILDING BOOKROOM - RCP
1/8" = 1'-0"



2 BUILDING BOOKROOM - FLOOR PLAN
1/8" = 1'-0"



7 BUILDING BOOKROOM - FOUNDATION PLAN
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

GENERAL NOTES

FLOOR PLAN

1. CONTRACTOR TO REVIEW INTERIOR ELEVATIONS, AND CONFIRM WALL ASSEMBLY APPROPRIATE FOR FINISHES AT WET AREAS, KITCHEN, RESTROOMS, AND JANITOR CLOSETS.
2. CONTRACTOR TO REVIEW ELEVATIONS FOR WINDOW VARIATIONS ON WINDOW SCHEDULE.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
5. LOCATE NEW DOORS FRAMES SO HINGED SIDE IS 3 INCHES FROM EDGE OF FRAME TO FACE OF PERPENDICULAR STUD, UNLESS OTHERWISE NOTED.
6. DIMENSIONS AT DOOR FRAMES ARE TO ROUGH OPENING.
7. CONTRACTOR TO REVIEW INTERIOR ELEVATIONS, AND CONFIRM WALL ASSEMBLY APPROPRIATE FOR FINISHES AT WET AREAS, KITCHEN, RESTROOMS, AND JANITOR CLOSETS.
8. ALL DOORS AND WINDOWS NOT SCHEDULED ARE EXISTING TO REMAIN, NO CHANGE.
9. ALL EXISTING DOORS HAVE LEVER TYPE HARDWARE.
10. DOORS SCHEDULED ON SHEET A-800.
11. WINDOWS SCHEDULED ON SHEET A-810.
12. WALL TYPES SCHEDULED ON SHEETS A-700, A-701 & A-702.

REFLECTED CEILING PLAN

1. UNDERSIDE OF GYPSUM WALLBOARD SOFFITS AND BULKHEADS TO RECEIVE PT-1 FINISH UNLESS NOTED OTHERWISE.
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL CEILING HEIGHT @ 8'-6" A.F.F UNLESS SPECIFIED OTHERWISE.
4. CEILING ACCESS PANELS EXACT LOCATION TO BE COORDINATED AND VERIFIED IN FIELD UNLESS SPECIFIED OTHERWISE.
5. SUSPENDED LAY-IN CEILING SHALL COMPLY WITH CBC 1617A.1.21 OR DSA IR-25-2 AS PER A-910 & A-911
6. SUSPENDED GYPSUM BOARD CEILINGS SHALL COMPLY WITH DSA IR-25-3 AS PER A-912

ROOF PLAN

1. ALL ROOF PENETRATION TO BE 18" MINIMUM CLEAR FROM STRUCTURAL SYSTEM.
2. ATTIC VENTILATION: BUILDING SHOULD BE PROVIDED WITH NATURAL VENTILATION IN ACCORDANCE WITH 1202.2.1 OR WITH CALIFORNIA MECHANICAL CODE. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED.

KEYNOTES

07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
23 81 13.A1	HVAC ROOF PACKAGE UNIT, TYP

ROOF PLAN

LEGEND

- WALL BELOW
- EXTERIOR WALL WITH METAL PARAPET CAP
- OVERHEAD ROOF OR UNDER SIDE OF ROOF
- EXISTING ROOF ACCESS HATCH TO REMAIN
- NEW BUILT UP ROOFING
- NEW ASPHALT SHINGLES
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN
- NEW CONCRETE STEM WALL

RCP

LEGEND

- 2 X 4 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 2 X 2 SUSPENDED ACOUSTICAL CEILING SYSTEM
- GYPSUM CEILING
- PLASTER CEILING / CEMENT BOARD SOFFIT
- PENDANT LIGHT FIXTURE, PER SCHEDULE
- RECESSED CAN LIGHT FIXTURE, PER SCHEDULE
- 24" X 24" LIGHT FIXTURE, PER SCHEDULE
- 24" X 48" LIGHT FIXTURE, PER SCHEDULE
- 12" X 48" LIGHT FIXTURE, PER SCHEDULE
- SURFACE MOUNTED LIGHT FIXTURE, PER SCHEDULE
- 2 X 2 SUPPLY AIR REGISTER
- 2 X 2 RETURN AIR REGISTER
- 2 X 2 EXHAUST AIR REGISTER
- LINEAR DIFFUSER
- ILLUMINATED EXIT SIGN

FLOOR PLAN

LEGEND

- EXTERIOR WALL: PORTLAND CEMENT PLASTER ON METAL LATH ON (2) LAYERS OF #15 ASPHALT FELT ON 1/2" PLYWOOD ON WOOD FRAMING, SIZE PER STRUCTURAL DRAWINGS. SEE SHEET A-700 FOR WALL TYPES
- EXTERIOR WALL: *NEW FIBER CEMENT BOARD ON (2) LAYERS OF #15 ASPHALT FELT ON EXISTING* WOOD FRAMING WALL, REPLACE BATT INSULATION WITH R-19 BATT INSULATION. SEE SHEET A-700 FOR WALL TYPES
- EXTERIOR WALL: *NEW FIBER CEMENT BOARD* ON (2) LAYERS OF #15 ASPHALT FELT ON PLYWOOD SHEAR PANEL, SIZE PER STRUCTURAL DRAWINGS, ON EXITING WOOD FRAMING, REPLACE BATT INSULATION WITH R-19 BATT INSULATION. SEE SHEET A-700 FOR WALL TYPES
- INTERIOR WALL: SEE SHEET A-702 FOR WALL TYPES
- FEC — SEMI-RECESSED FIRE EXTINGUISHER, SEE DETAIL 8/A-903
- WINDOW OR STOREFRONT, PER SCHEDULE
- DOOR, PER SCHEDULE
- FD — FLOOR DRAIN, SEE PLUMBING DRAWINGS
- CR — CARD READER - 48" MAX TO TOP OF MECHANISM

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PLANS - BLDG P101 & BOOK ROOM (FLOOR PLAN, RCP, ROOF PLAN)

A-141

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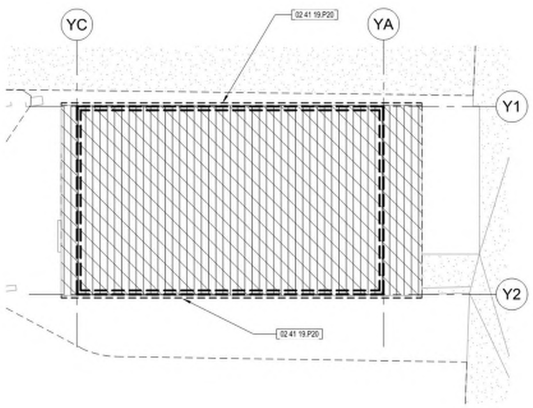
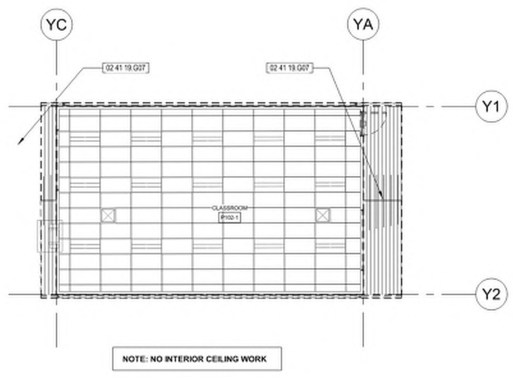
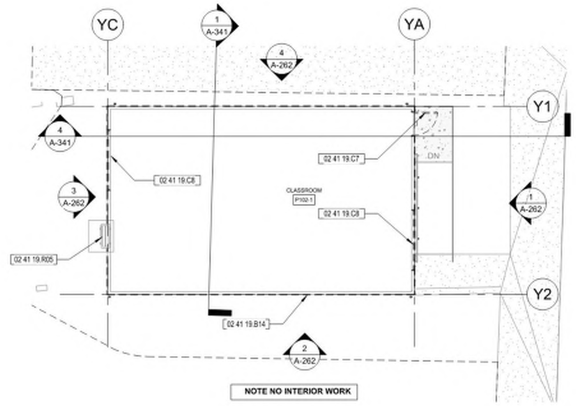


3 BUILDING P102 - DEMOLITION ROOF PLAN
1/8" = 1'-0"



2 BUILDING P102 - EXISTING RCP
1/8" = 1'-0"



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PLAN NORTH TRUE NORTH

GENERAL NOTES

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2. REFER TO ELECTRICAL FOR SWITCH GEAR & TRANSFORMER LOCATION.
3. PROTECT (E) FIRE HYDRANT DURING DEMOLITION. MAINTAIN PROPER FUNCTION AND MAKE UNIT EASILY ACCESSIBLE FOR LOCAL FIRE AUTHORITY.
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KEYNOTES

02 41 19.B14	REMOVE EXTERIOR WOOD SIDING AND SHEATHING, (STUDS TO REMAIN, PROTECT IN PLACE)
02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C8	REMOVE WINDOW, FRAME AND ASSEMBLY, TYP
02 41 19.G07	REMOVE EXISTING WOOD SOFFIT PROTECT SOFFIT FRAMING IN PLACE
02 41 19.P20	REMOVE EXISTING GUTTER AND DOWNSPOUTS
02 41 19.R05	EXISTING WALL MOUNT HVAC UNIT TO REMAIN, PROTECT IN PLACE

LEGEND

- BUILT UP ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- ASPHALT ROOFING SHINGLES TO BE REMOVED AND STRUCTURE TO REMAIN
- METAL STANDING SEAM ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- EXISTING EXTERIOR WALL BELOW
- EXISTING ROOF ACCESS HATCH TO REMAIN
- SCUPPER AND LEADER
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN

LEGEND

- EXISTING GYP. BOARD CEILING TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO BE REMOVED
- EXISTING LIGHTING FIXTURE TO BE REMOVED
- MECHANICAL GRILLE TO BE REMOVED
- EXISTING WOOD ROOF SOFFIT TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO REMAIN
- EXISTING LIGHTING FIXTURE TO REMAIN
- MECHANICAL GRILLE TO REMAIN

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WINDOW & FRAME TO BE DEMOLISHED
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING OPENING TO REMAIN
- EXISTING ROOF OVERHANG
- SAWCUT EDGE AND DEMOLISH AREA AS INDICATED, AS REQUIRED FOR INSTALLATION OF NEW PLUMBING LINES AND INSTALLATION OF NEW DEPRESSED SLAB AND 2" MORTAR BED PER STRUCTURAL.
- REMOVE FLOOR TILE & SETTING BED. REMOVE CONCRETE CURB ON WALLS TO BE REMOVED

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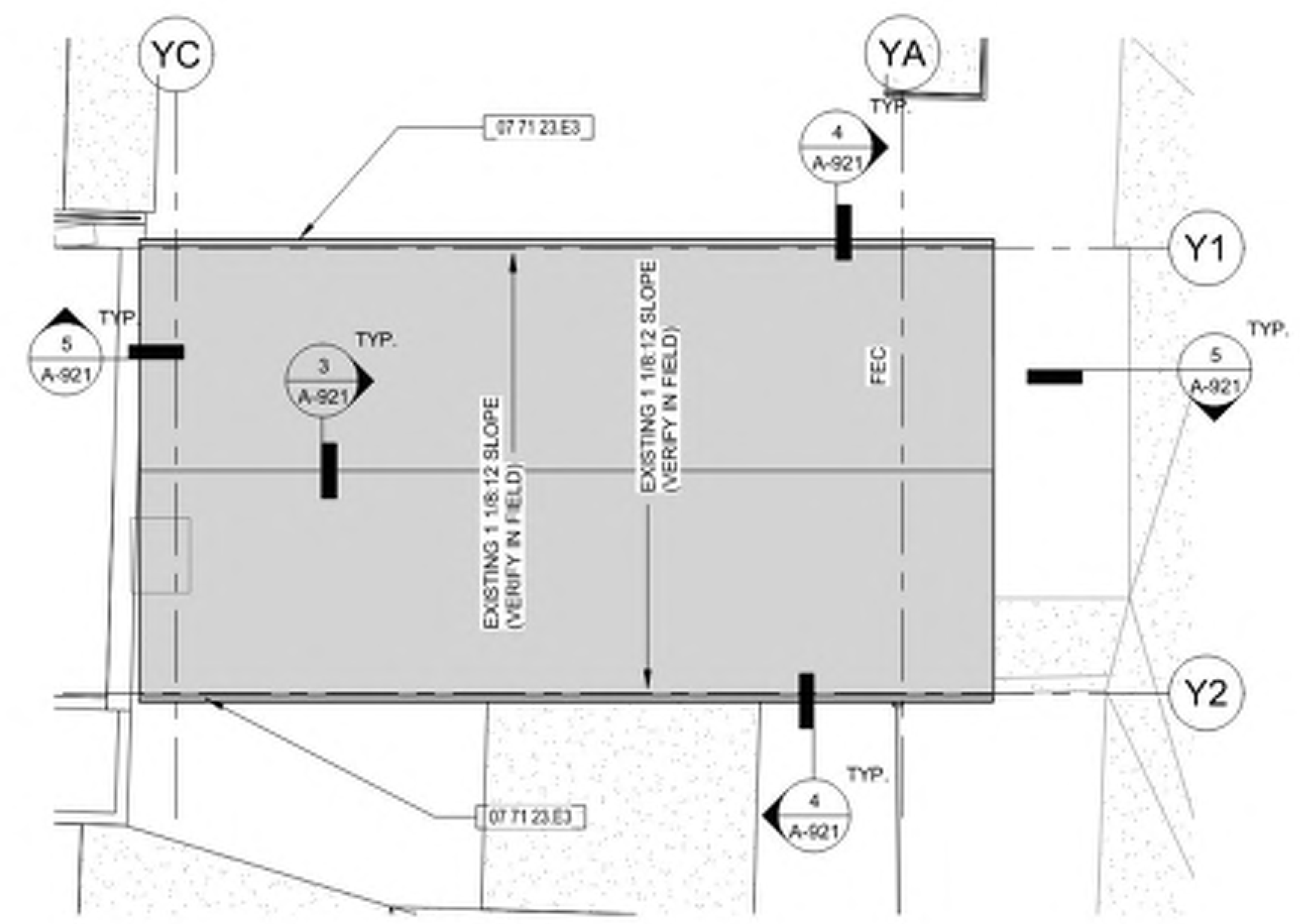
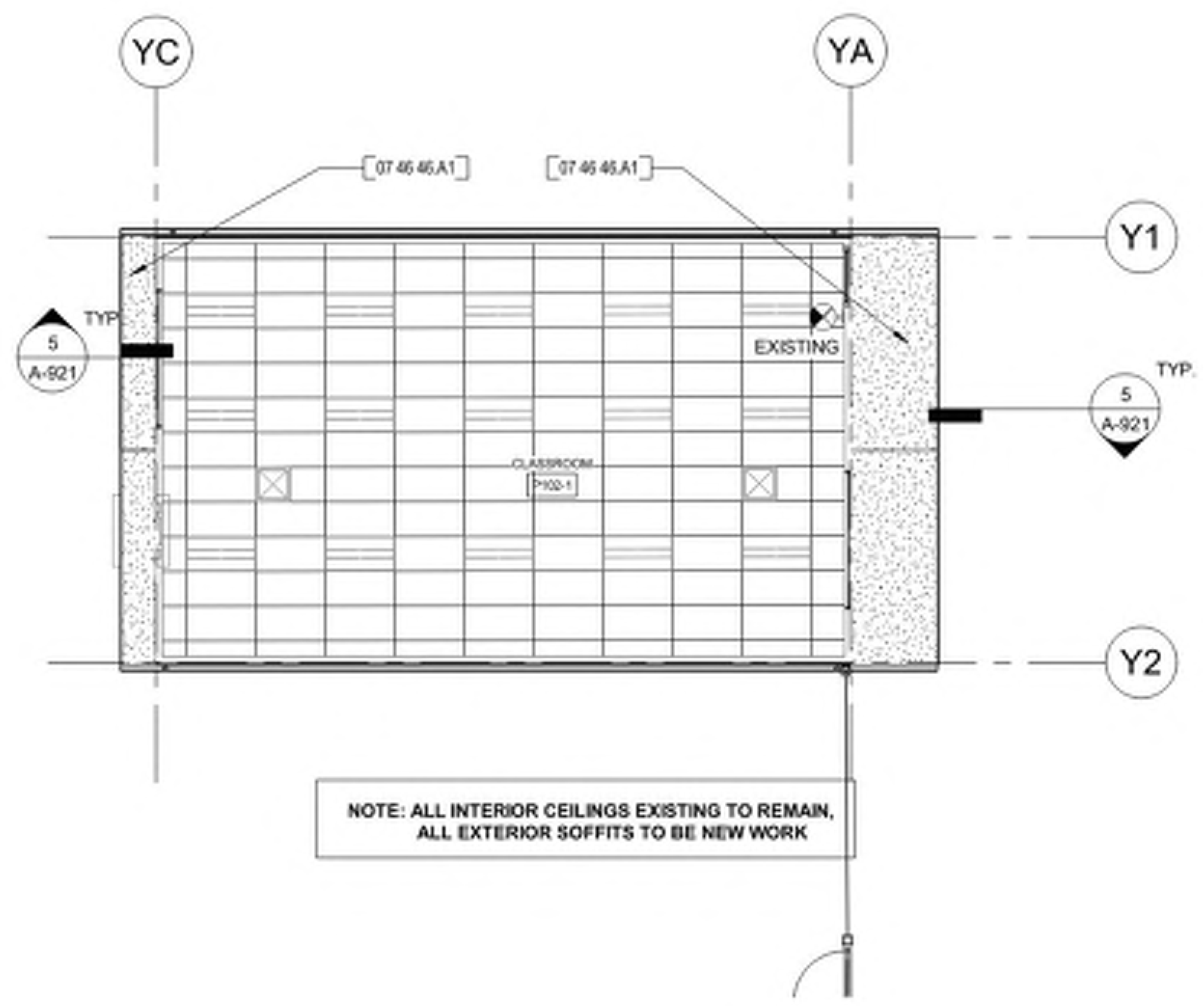
DEMOLITION PLANS - BUILDING P102 (FLOOR PLAN, RCP, ROOF PLAN)

A-160

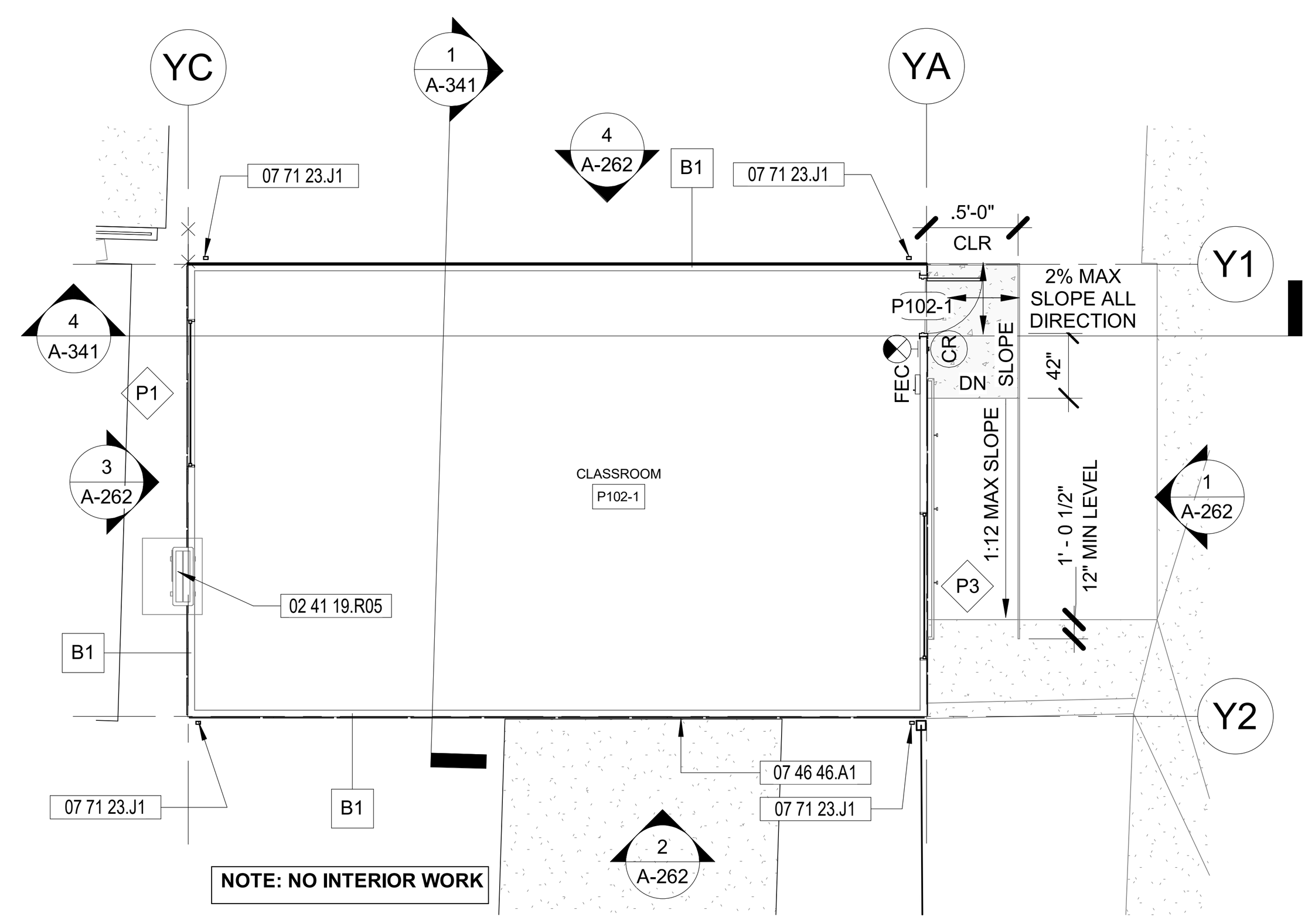
10/19/2022 1:56:27 PM



3 BUILDING P102 - ROOF PLAN
1/8" = 1'-0"



2 BUILDING P102 - RCP
1/8" = 1'-0"



1 BUILDING P102 - FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES

FLOOR PLAN

1. CONTRACTOR TO REVIEW INTERIOR ELEVATIONS, AND CONFIRM WALL ASSEMBLY APPROPRIATE FOR FINISHES AT WET AREAS, KITCHEN, RESTROOMS, AND JANITOR CLOSETS.
2. CONTRACTOR TO REVIEW ELEVATIONS FOR WINDOW VARIATIONS ON WINDOW SCHEDULE.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
5. LOCATE NEW DOORS FRAMES SO HINGED SIDE IS 3 INCHES FROM EDGE OF FRAME TO FACE OF PERPENDICULAR STUD, UNLESS OTHERWISE NOTED.
6. DIMENSIONS AT DOOR FRAMES ARE TO ROUGH OPENING.
7. CONTRACTOR TO REVIEW INTERIOR ELEVATIONS, AND CONFIRM WALL ASSEMBLY APPROPRIATE FOR FINISHES AT WET AREAS, KITCHEN, RESTROOMS, AND JANITOR CLOSETS.
8. ALL DOORS AND WINDOWS NOT SCHEDULED ARE EXISTING TO REMAIN, NO CHANGE.
9. ALL EXISTING DOORS HAVE LEVER TYPE HARDWARE.
10. DOORS SCHEDULED ON SHEET A-800.
11. WINDOWS SCHEDULED ON SHEET A-810.
12. WALL TYPES SCHEDULED ON SHEETS A-700, A-701 & A-702.

REFLECTED CEILING PLAN

1. UNDERSIDE OF GYPSUM WALLBOARD SOFFITS AND BULKHEADS TO RECEIVE PT-1 FINISH UNLESS NOTED OTHERWISE.
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL CEILING HEIGHT @ 8'-6" A.F.F UNLESS SPECIFIED OTHERWISE.
4. CEILING ACCESS PANELS EXACT LOCATION TO BE COORDINATED AND VERIFIED IN FIELD UNLESS SPECIFIED OTHERWISE.
5. SUSPENDED LAY-IN CEILING SHALL COMPLY WITH CBC 1617A.1.21 OR DSA IR-25-2 AS PER A-910 & A-911
6. SUSPENDED GYPSUM BOARD CEILINGS SHALL COMPLY WITH DSA IR-25-3 AS PER A-912

ROOF PLAN

1. ALL ROOF PENETRATION TO BE 18" MINIMUM CLEAR FROM STRUCTURAL SYSTEM.
2. ATTIC VENTILATION: BUILDING SHOULD BE PROVIDED WITH NATURAL VENTILATION IN ACCORDANCE WITH 1202.2.1 OR WITH CALIFORNIA MECHANICAL CODE. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED.

KEYNOTES

02 41 19.R05	EXISTING WALL MOUNT HVAC UNIT TO REMAIN. PROTECT IN PLACE
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT

LEGEND

- WALL BELOW
- EXTERIOR WALL WITH METAL PARAPET CAP
- OVERHEAD ROOF OR UNDER SIDE OF ROOF
- EXISTING ROOF ACCESS HATCH TO REMAIN
- NEW BUILT UP ROOFING
- NEW ASPHALT SHINGLES
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN
- NEW CONCRETE STEM WALL

LEGEND

- 2 X 4 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 2 X 2 SUSPENDED ACOUSTICAL CEILING SYSTEM
- GYPSUM CEILING
- PLASTER CEILING / CEMENT BOARD SOFFIT
- PENDANT LIGHT FIXTURE, PER SCHEDULE
- RECESSED CAN LIGHT FIXTURE, PER SCHEDULE
- 24" X 24" LIGHT FIXTURE, PER SCHEDULE
- 24" X 48" LIGHT FIXTURE, PER SCHEDULE
- 12" X 48" LIGHT FIXTURE, PER SCHEDULE
- SURFACE MOUNTED LIGHT FIXTURE, PER SCHEDULE
- 2 X 2 SUPPLY AIR REGISTER
- 2 X 2 RETURN AIR REGISTER
- 2 X 2 EXHAUST AIR REGISTER
- LINEAR DIFFUSER
- ILLUMINATED EXIT SIGN

LEGEND

- EXTERIOR WALL: PORTLAND CEMENT PLASTER ON METAL LATH ON (2) LAYERS OF #15 ASPHALT FELT ON 1/2" PLYWOOD ON WOOD FRAMING, SIZE PER STRUCTURAL DRAWINGS. SEE SHEET A-700 FOR WALL TYPES
- EXTERIOR WALL: *NEW FIBER CEMENT BOARD ON (2) LAYERS OF #15 ASPHALT FELT ON EXISTING* WOOD FRAMING WALL, REPLACE BATT INSULATION WITH R-19 BATT INSULATION. SEE SHEET A-700 FOR WALL TYPES
- EXTERIOR WALL: *NEW FIBER CEMENT BOARD* ON (2) LAYERS OF #15 ASPHALT FELT ON PLYWOOD SHEAR PANEL, SIZE PER STRUCTURAL DRAWINGS, ON EXITING WOOD FRAMING, REPLACE BATT INSULATION WITH R-19 BATT INSULATION. SEE SHEET A-700 FOR WALL TYPES
- INTERIOR WALL: SEE SHEET A-702 FOR WALL TYPES
- FEC — SEMI-RECESSED FIRE EXTINGUISHER, SEE DETAIL 8/A-903
- WINDOW OR STOREFRONT, PER SCHEDULE
- 101 — DOOR, PER SCHEDULE
- FD — FLOOR DRAIN, SEE PLUMBING DRAWINGS
- CR — CARD READER - 48" MAX TO TOP OF MECHANISM

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LICENSED ARCHITECT — NO. C28089 — REN. 05/31/23 — STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

PLANS - BUILDING P102 (FLOOR PLAN, RCP, ROOF PLAN)

A-161

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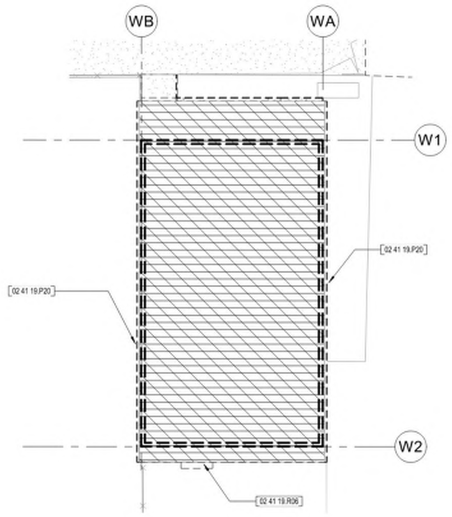
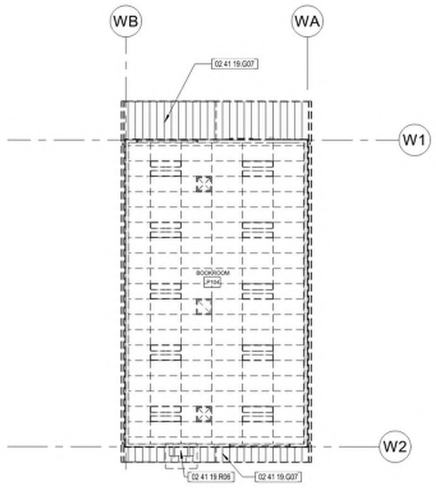
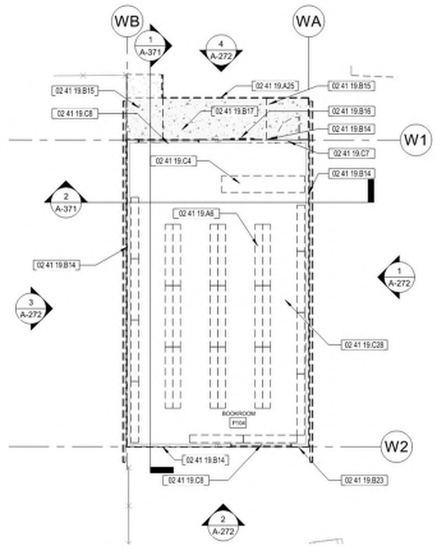


3 BUILDING P104 - DEMO ROOF PLAN
1/8" = 1'-0"



4 BUILDING P104 - DEMO RCP
1/8" = 1'-0"



1 BUILDING P104 - DEMO FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES

1. REFER TO CIVIL SHEETS C-04, C-05 AND C-07 FOR UTILITY P.O.C. TO REMAIN.
2. REFER TO ELECTRICAL FOR SWITCH GEAR & TRANSFORMER LOCATION.
3. PROTECT (E) FIRE HYDRANT DURING DEMOLITION. MAINTAIN PROPER FUNCTION AND MAKE UNIT EASILY ACCESSIBLE FOR LOCAL FIRE AUTHORITY.
4. CONTRACTOR TO CONFIRM WITH DISTRICT ANY DEMO ITEMS TO BE SALVAGED FOR DISTRICT DISPOSITION.
5. ALL EXISTING UNDERGROUND UTILITIES THAT SERVICE EXISTING BUILDINGS TO BE DEMOLISHED ARE TO BE REMOVED IN THEIR ENTIRETY THROUGHOUT THE AREA OF SITE DEMOLITION AND GRADING. CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES SHOWN ON THESE PLANS AND/OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. REFER TO LANDSCAPE DRAWINGS L0.1 FOR ALL TREE, LANDSCAPING, PLANTING AND IRRIGATION PROTECTION AND REMOVAL.
7. DEMOLITION PLANS ARE BASED ON COMBINATION OF ON-SITE INVESTIGATION AND REVIEW OF AS-BUILT DOCUMENTATION FROM MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT.
8. MISCELLANEOUS ACTIVE OR ABANDONED IN PLACE IRRIGATIONS LINES, WATER LINES, STORM DRAIN LINES, HIGH AND LOW PRESSURE GAS LINES, ELECTRICAL CONDUITS, LOW-VOLTAGE SYSTEMS INCLUDING TELEPHONE, FIRE ALARM AND TECHNOLOGY CONDUITS AND WIRING MAY BE ENCOUNTERED DURING SITE EXCAVATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ANY SYSTEMS INDICATED OR NOT INDICATED ON THE DEMOLITION PLAN AND TRACE BACK ANY LIVE SYSTEMS TO SOURCE AND CAP OFF AND REMOVE AND DISPOSE. SEE SECTION 02 41 19 "SELECTED DEMOLITION" PROCEDURES AND REQUIREMENTS.
10. INDIVIDUAL PORTABLE CLASSROOM LAYOUT VARIES. CONTRACTOR TO VERIFY IN THE FIELD.
11. DIG ALERT: CALL 1-800-227-2600 TWO WORKING DAYS BEFORE DIGGING

KEYNOTES

02 41 19.A6	SALVAGE ITEM, RETURN TO OWNER
02 41 19.A25	EXISTING METAL RAILING TO BE REMOVED
02 41 19.B14	REMOVE EXTERIOR WOOD SIDING AND SHEATHING, (STUDS TO REMAIN, PROTECT IN PLACE)
02 41 19.B15	DEMOLISH EXISTING CONCRETE LANDING
02 41 19.B16	EXISTING WALL MOUNT DISPLAY CASE TO BE REMOVED
02 41 19.B17	DEMOLISH EXISTING CONCRETE RAMP
02 41 19.B23	MOVE MODULAR TO PROVIDE ACCESS TO INSTALL NEW CONCRETE FOUNDATION, RETURN TO NEW FOUNDATION.
02 41 19.C4	CASEWORK AND BASE TO BE REMOVED
02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C8	REMOVE WINDOW, FRAME AND ASSEMBLY, TYP
02 41 19.C28	FINISH FLOOR TO BE REMOVED
02 41 19.G07	REMOVE EXISTING WOOD SOFFIT PROTECT SOFFIT FRAMING IN PLACE
02 41 19.P20	REMOVE EXISTING GUTTER AND DOWNSPOUTS
02 41 19.R06	EXISTING WALL MOUNT HVAC UNIT TO BE REMOVED, REMOVE ALL ASSOCIATED DUCTING & REGISTERS

ROOF LEGEND

- BUILT UP ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- ASPHALT ROOFING SHINGLES TO BE REMOVED AND STRUCTURE TO REMAIN
- METAL STANDING SEAM ROOFING TO BE REMOVED AND STRUCTURE TO REMAIN
- EXISTING EXTERIOR WALL BELOW
- EXISTING ROOF ACCESS HATCH TO REMAIN
- SCUPPER AND LEADER
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN

RCP LEGEND

- EXISTING GYP. BOARD CEILING TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO BE REMOVED
- EXISTING LIGHTING FIXTURE TO BE REMOVED
- MECHANICAL GRILLE TO BE REMOVED
- EXISTING WOOD ROOF SOFFIT TO BE REMOVED
- EXISTING 2X4 ACOUSTICAL CEILING TILE SYSTEM TO REMAIN
- EXISTING LIGHTING FIXTURE TO REMAIN
- MECHANICAL GRILLE TO REMAIN

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WINDOW & FRAME TO BE DEMOLISHED
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING OPENING TO REMAIN
- EXISTING ROOF OVERHANG
- SAWCUT EDGE AND DEMOLISH AREA AS INDICATED, AS REQUIRED FOR INSTALLATION OF NEW PLUMBING LINES AND INSTALLATION OF NEW DEPRESSED SLAB AND 2" MORTAR BED PER STRUCTURAL.
- REMOVE FLOOR TILE & SETTING BED. REMOVE CONCRETE CURB ON WALLS TO BE REMOVED

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Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
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	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

DEMOLITION PLANS - BUILDING P104 (FLOOR PLAN, RCP, ROOF PLAN)

A-170

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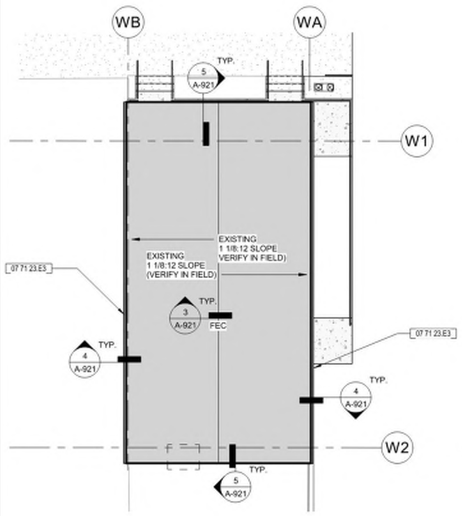
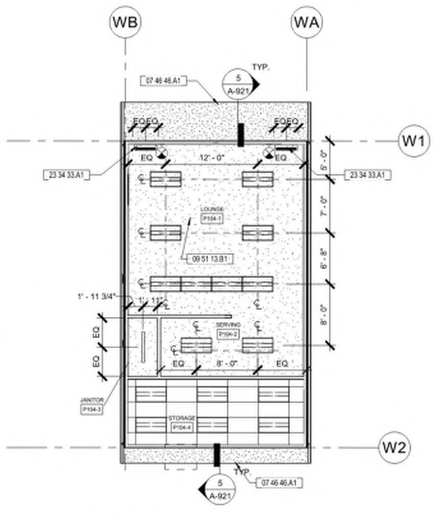
KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT					ELECTRICAL							PLUMBING									
										CONNECT		SUPPLY P.O.C.		WASTE					GAS		
																INDIRECT					
NO	QTY	DESCRIPTION	OFCI or CFCI	MANUFACTURER	MODEL #	V	PH	AMP	KW	HP	WIRE	CORD PLUG	HOT	COLD	SIZE	DIR	FO	FS	FD	SIZE	MBH	REMARKS
1	1	MILK COOLER	OFCI	TRUE FOOD SERVICE	TMC-34-05	115	1	9.0		1/3		5-15P										SELF CONTAINED
2	1	FOOD WARMER	OFCI	VOLLRATH	38002	120	1	11.7	1.40			5-15P										
3	1	COLD FOOD STATION	OFCI	CAMBRO	VBR5110																	
4	1	WORK TABLE (60"X30"X34"H)	OFCI	CUSTOM STAINLESS STEEL	NSF APPROVED																	
5	1	P.O.S. SYSTEM	OFCI	BY DISTRICT		120	1	5.0				5-15P										
6	1	WALL SHELF	CFCI	CUSTOM STAINLESS STEEL	NSF APPROVED																	
7	1	PRE-RINSE FAUCET WITH ADD ON FAUCET	CFCI	T & S BRASS	B-0133-01								1/2"	1/2"								WITH FAUCET CAPABLE OF REACHING ALL COMPARTMENTS
8	2	3 COMPARTMENT SINK	CFCI	CUSTOM STAINLESS STEEL	NSF APPROVED										1-1/2"			X				WITH MIN18"X18"12" COMPARMENTS WITH MIN 18" DUAL INTEGRAL DRAINBOARDS
9	1	WALL SHELF	CFCI	CUSTOM STAINLESS STEEL	NSF APPROVED																	
10	1	FAUCET	CFCI	T & S BRASS	08003	120	1	12.0	1.44			5-15P			1-1/2"			X				
11	2	PREP SINK	CFCI	CUSTOM STAINLESS STEEL	NSF APPROVED										1-1/2"	X						WITH MIN 18"X18"X12" COMPARTMENT WITH MIN 18" INTEGRAL DRAINBOARD
12	1	WALL SHELF	CFCI	CUSTOM STAINLESS STEEL	NSF APPROVED																	
13	1	WALL MOUNTED HAND SINK WITH FAUCET SOAP & PAPER TOWEL DISPENSER	CFCI	KROWNE METAL	HS-7								1/2"	1/2"	1-1/2"	X						WITH MIN 6" SPLASH GUARDS
14	-	SPARE NUMBER	OFCI																			
15	-	SPARE NUMBER	OFCI																			
16	-	SPARE NUMBER	OFCI																			
17	1	MOBILE FOOD WARMING CABINET	OFCI	CRES COR	H137 -UA-9D	120	1	12.0	1.50			5-15P										
18	1	REACH IN REFRIGERATOR	OFCI	TRUE FOOD SERVICE	T-23	115	1	7.5		1/3		5-15P										SELF CONTAINED
19	11	DRY SHELVING - 72" LONG	CFCI	INTERMETRO																		5 TIERS HIGH
20	11	DRY SHELVING - 42" LONG	CFCI	INTERMETRO																		5 TIERS HIGH
21	1	MOP SINK	CFCI	BY PLUMBING CONTRACTOR											2"	0"						FLOOR MOUNTED MIN 24"X24"
22	1	SERVICE FAUCET	CFCI	BY PLUMBING CONTRACTOR									1/2"	1/2"								WITH VACUUM BREAKER
23	1	JANITORIAL SHELF WITH MOP AND BROOM RACK	CFCI	JOHN BOOS																		
24	1	WATER HEATER	CFCI	BY PLUMBING CONTRACTOR		VER		VER	VER		X			VER						VER	VER	

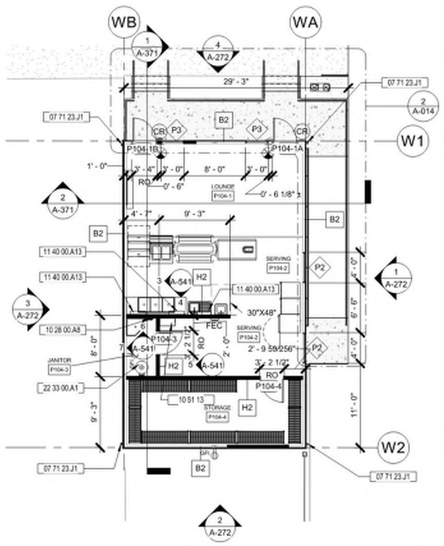


4 BUILDING P104 - ROOF PLAN
1/8" = 1'-0"

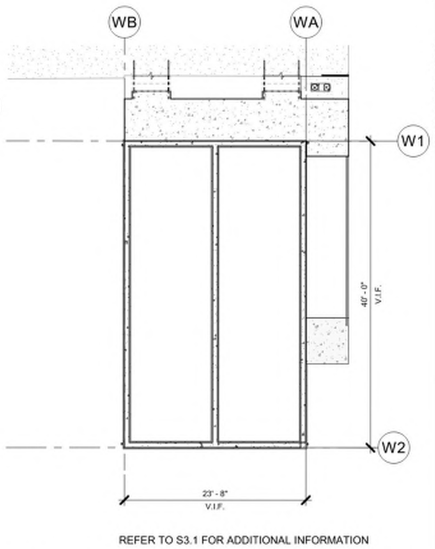


NOTE: ALL CEILINGS AND FIXTURES TO BE NEW

3 BUILDING P104 - RCP
1/8" = 1'-0"

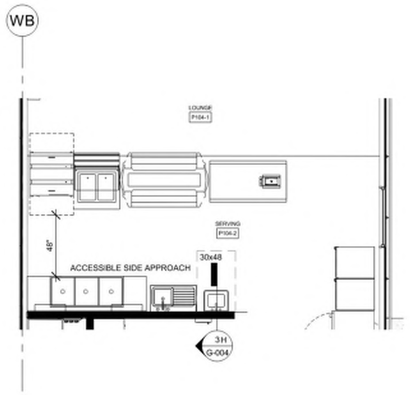


2 BUILDING P104 - FLOOR PLAN
1/8" = 1'-0"

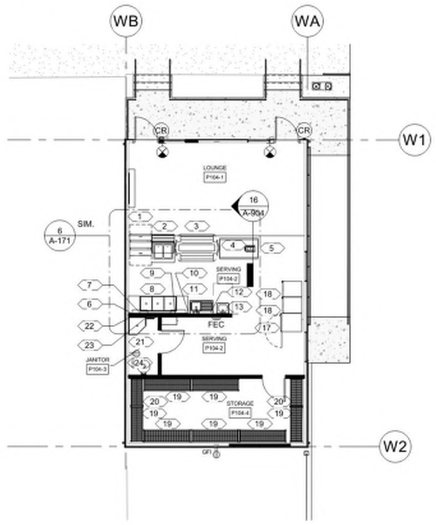


REFER TO S3.1 FOR ADDITIONAL INFORMATION

1 BUILDING P104 - FOUNDATION PLAN
1/8" = 1'-0"



6 BLDG P104 - ACCESSIBILITY PLAN
1/4" = 1'-0"



5 BUILDING P104 - EQUIPMENT PLAN
1/8" = 1'-0"

ROOF PLAN LEGEND

- WALL BELOW
- EXTERIOR WALL WITH METAL PARAPET CAP
- OVERHEAD ROOF OR UNDER SIDE OF ROOF
- EXISTING ROOF ACCESS HATCH TO REMAIN
- NEW BUILT UP ROOFING
- NEW ASPHALT SHINGLES
- EXISTING ROOF DRAIN AND OVERFLOW TO REMAIN
- NEW CONCRETE STEM WALL

RCP LEGEND

- 2 X 4 SUSPENDED ACOUSTICAL CEILING SYSTEM
- 2 X 2 SUSPENDED ACOUSTICAL CEILING SYSTEM
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- PENDANT LIGHT FIXTURE, PER SCHEDULE
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- CR — CARD READER - 48" MAX TO TOP OF MECHANISM

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2. ATTIC VENTILATION: BUILDING SHOULD BE PROVIDED WITH NATURAL VENTILATION IN ACCORDANCE WITH 1202.2.1 OR WITH CALIFORNIA MECHANICAL CODE. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED.

KEYNOTES

07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
09 51 13.B1	SUSPENDED GYPSUM BOARD CEILING
10 28 00.A8	MOP AND BROOM HOLDER
10 51 13	METAL LOCKERS - REFER TO 17/A-904 FOR MOUNTING INFORMATION
11 40 00.A13	24" LONG x 6" DEEP METAL SHELF
22 33 00.A1	WATER HEATER REFER TO PLUMBING DRAWINGS
23 34 33.A1	DOOR AIR CURTAIN

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LICENSED ARCHITECT
TOMMY V. STRATTON
No. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

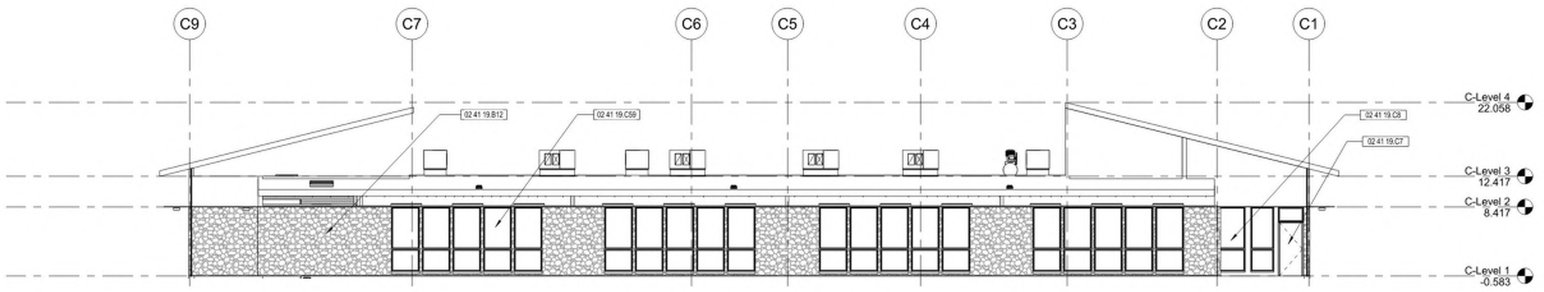
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

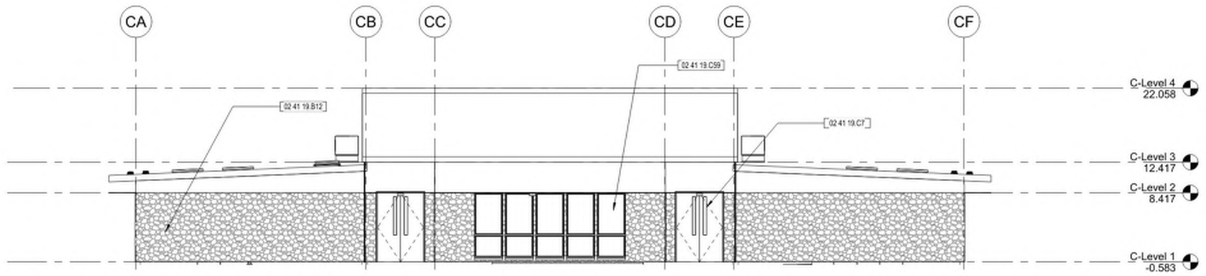
PLANS - BUILDING P104 (FLOOR PLAN, RCP, ROOF PLAN)

A-171

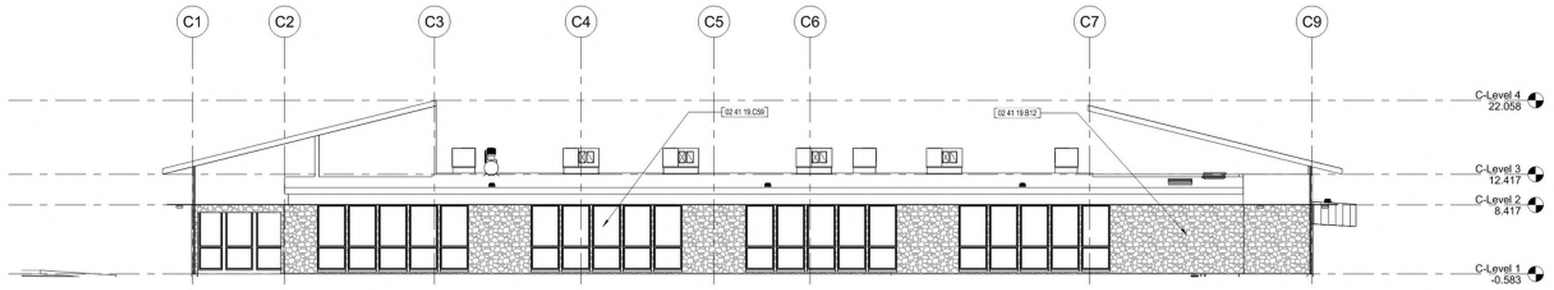
10/10/2022 1:56:43 PM



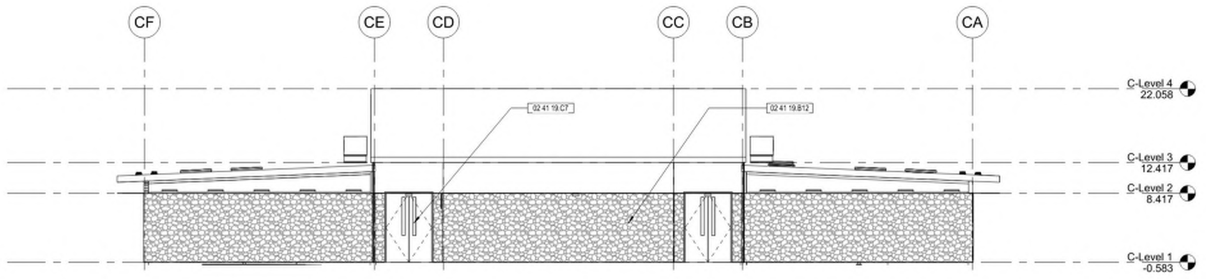
1 NORTH ELEVATION - BUILDING C - DEMOLITION
1/8" = 1'-0"



2 EAST ELEVATION - BUILDING C -DEMOLITION
1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING C - DEMOLITION
1/8" = 1'-0"



4 WEST ELEVATION - BUILDING C - DEMOLITION
1/8" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
2. DIMENTIONS FOR MIRRORED OR SYMETRICAL CONSTRUCTION MAY BE ILLUSTRATED AT ONE SIDE AND SHALL BE ASSUMED SIMILAR FOR THE OTHER.
3. KEYNOTES MAY BE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. SIMILAR CONSTRUCTION OR BUILDING ELEMENTS SHALL BE ASSUMED TO BE NOTED SIMILARLY. KEYNOTES APPLY TYPICALLY, U.O.N.

KEYNOTES

02 41 19.B12	REMOVE EXPOSED AGGREGATE EPOXY MATRIX AND PLYWOOD SHEATHING (PROTECT IN PLACE SHEAR PANELS & STUDS)
02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C8	REMOVE WINDOW, FRAME AND ASSEMBLY, TYP
02 41 19.C59	EXISTING WINDOW TO REMAIN, PROTECT IN PLACE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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LICENSED ARCHITECT
KENNETH K. STEVENSON
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

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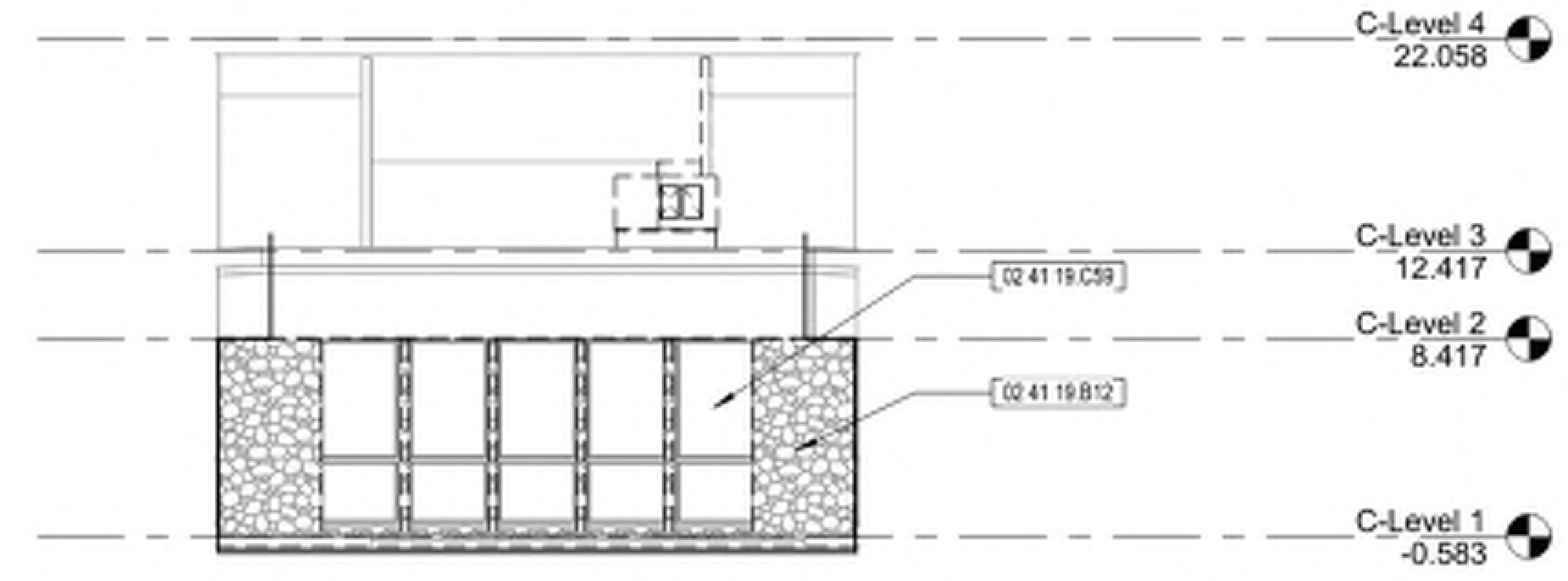
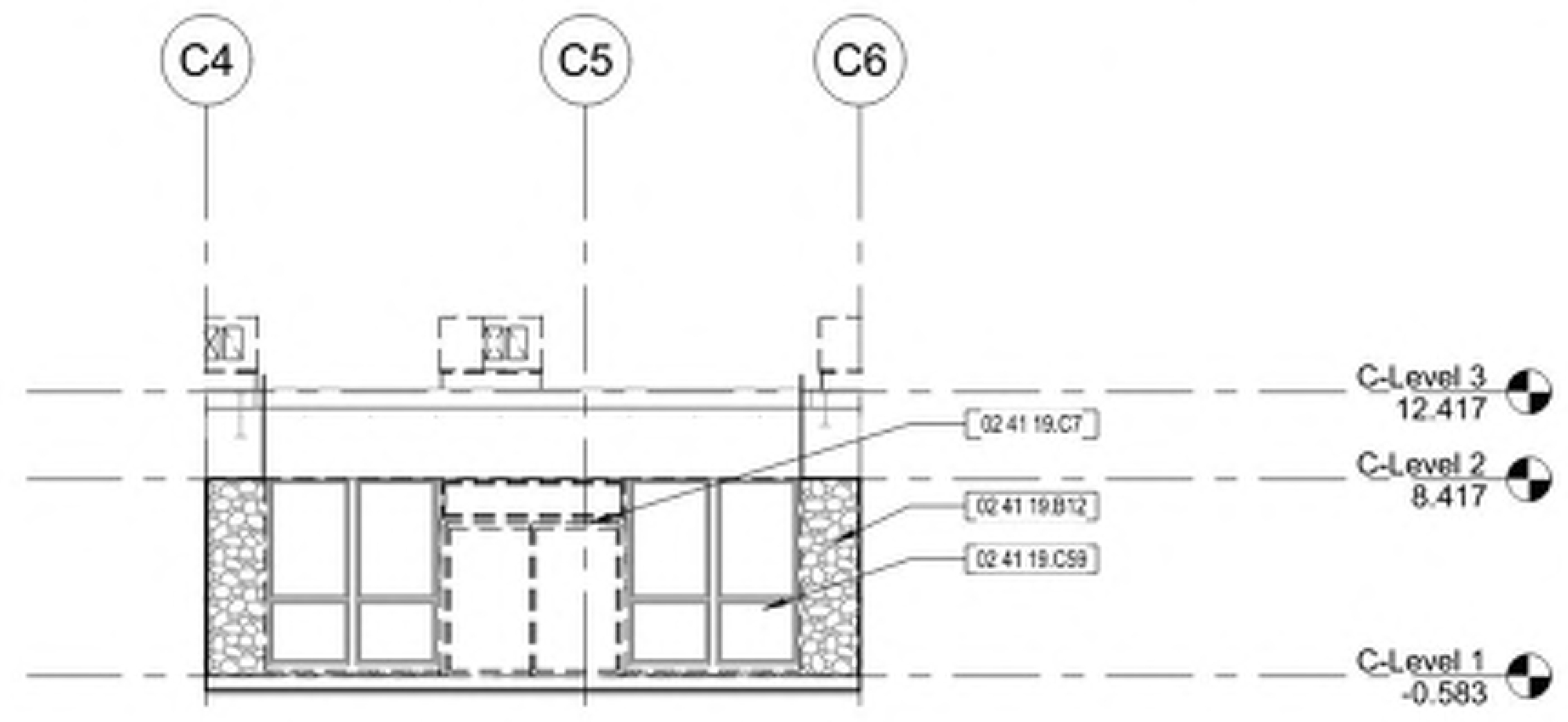
DEMOLITION
EXTERIOR
ELEVATIONS -
BUILDING C

A-221

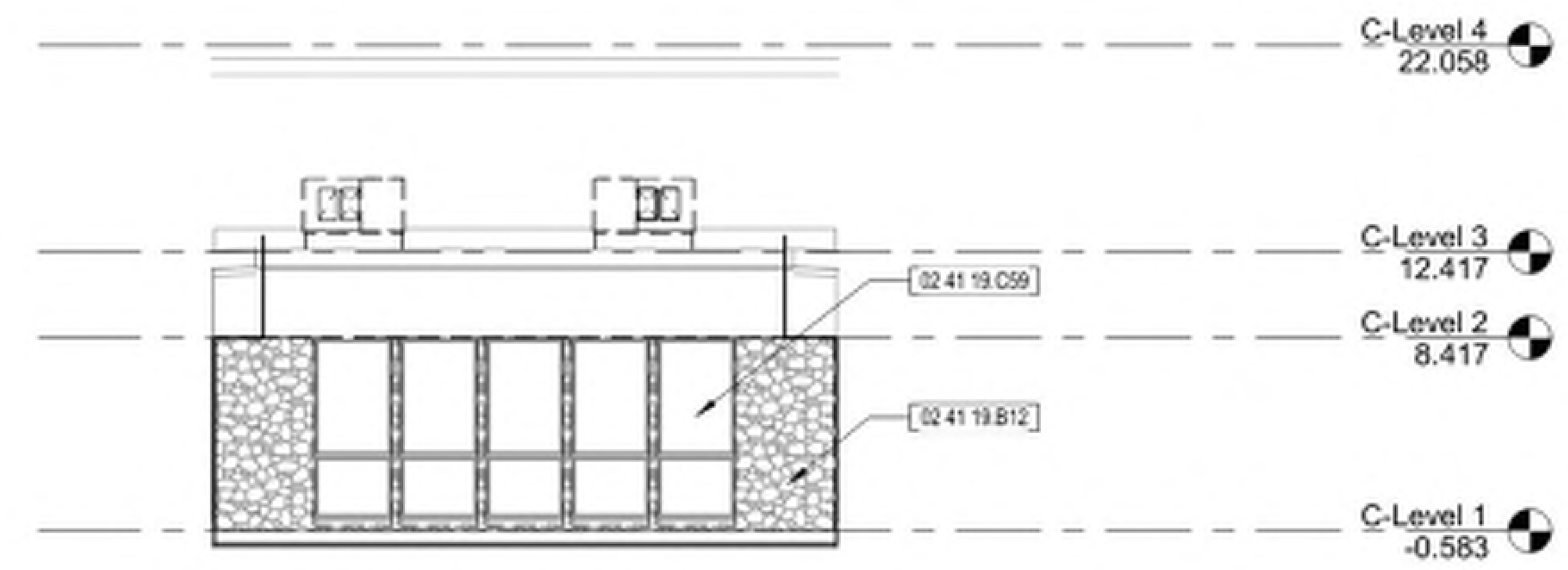
9/27/2022 9:25:43 AM



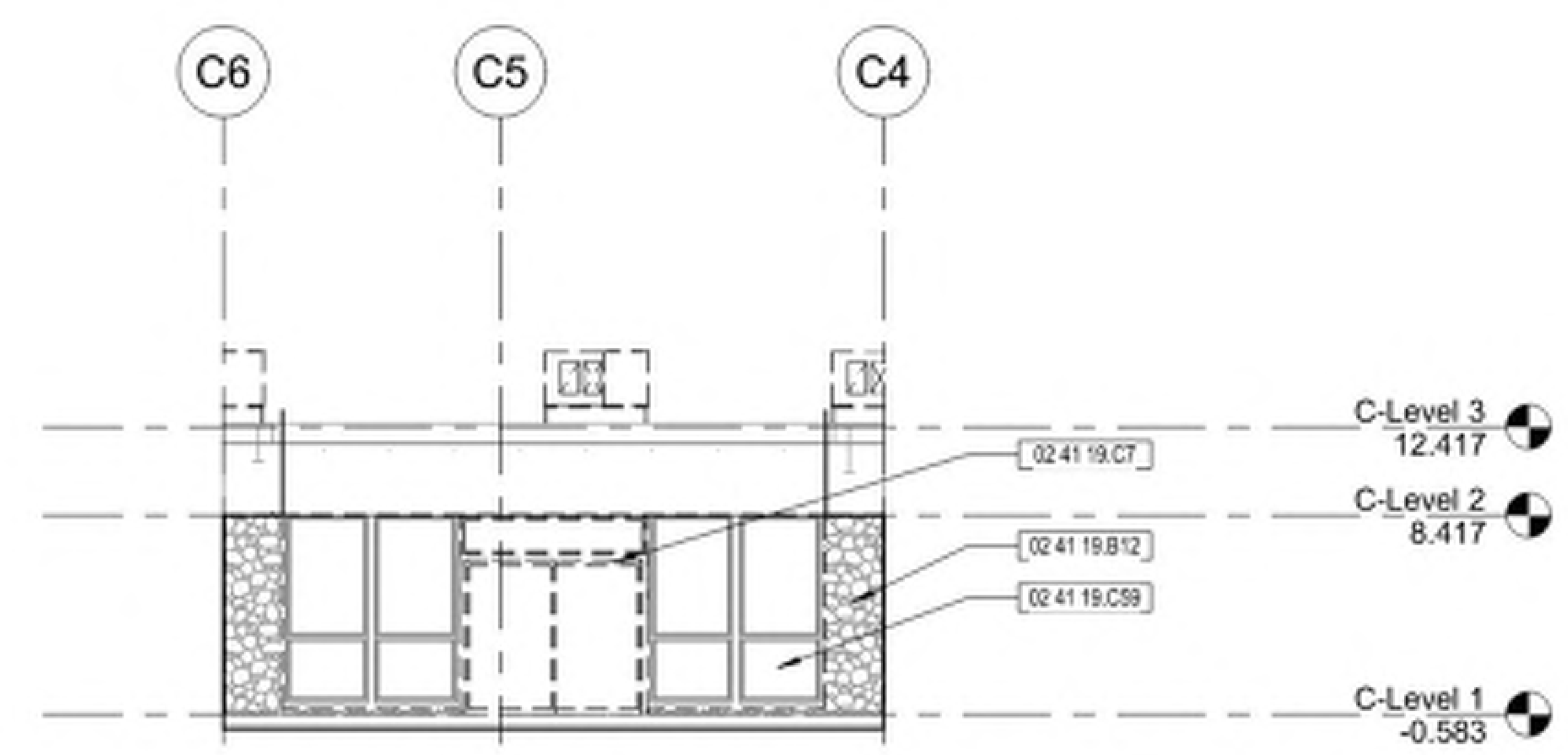
1 WEST COURTYARD ELEVATION - BUILDING C - DEMOLITION
1/8" = 1'-0"



2 NORTH COURTYARD ELEVATION - BUILDING C - DEMOLITION
1/8" = 1'-0"



3 EAST COURTYARD ELEVATION - BUILDING C - DEMOLITION
1/8" = 1'-0"



4 SOUTH COURTYARD ELEVATION - BUILDING C - DEMOLITION
1/8" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
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02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C59	EXISTING WINDOW TO REMAIN, PROTECT IN PLACE

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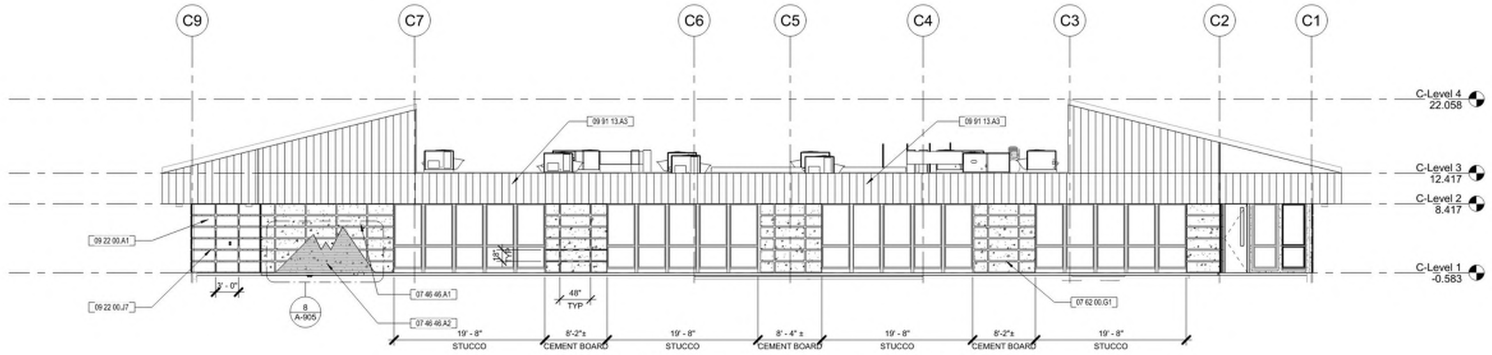
DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

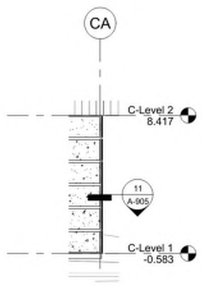
DEMO COURTYARD EXTERIOR ELEVATIONS - BUILDING C

A-222

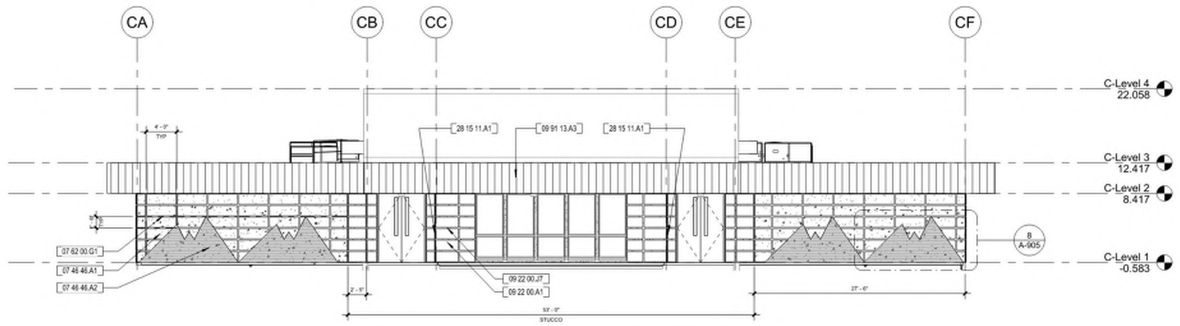
9/27/2022 9:25:47 AM



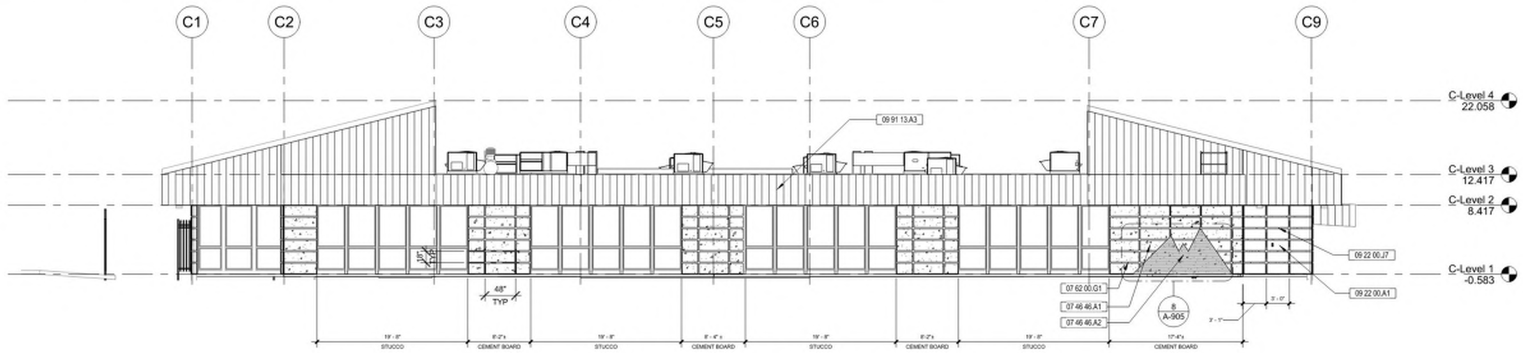
1 NORTH ELEVATION - BUILDING C
1/8" = 1'-0"



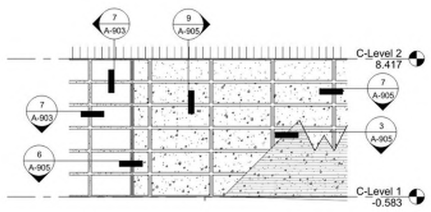
5 DETAIL PARTIAL ELEVATION - CORNER
1/4" = 1'-0"



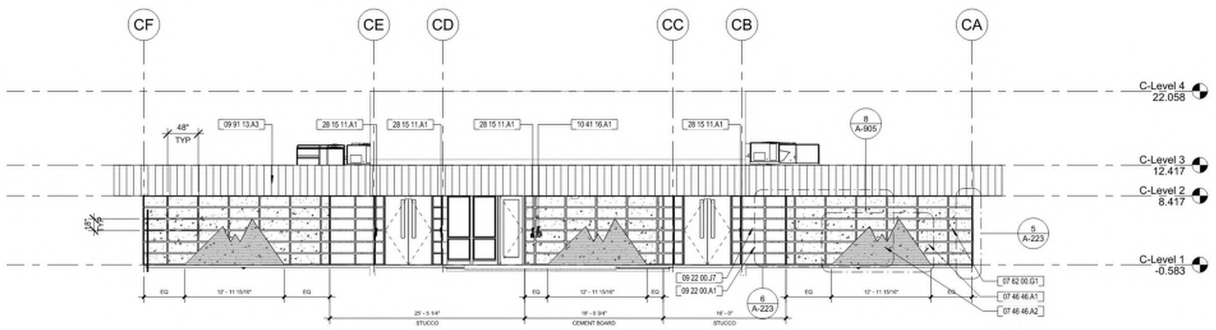
2 EAST ELEVATION - BUILDING C
1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING C
1/8" = 1'-0"



6 DETAIL PARTIAL ELEVATION - BLDG C
1/4" = 1'-0"



4 WEST ELEVATION - BUILDING C
1/8" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
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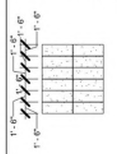
KEYNOTES

07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 46 46.A2	FIBRE CEMENT SIDING - GROOVED-TEXTURED FINISH
07 62 00.G1	FIBRE CEMENT SIDING H-MOLD TRIM, REFER TO 7/A-905
09 22 00.A1	PORTLAND CEMENT PLASTER W/ ACRYLIC SMOOTH FINISH
09 22 00.J7	2" CHANNEL REVEAL, REFER TO 7/A-903
09 91 13.A3	PAINT METAL FASCIA SHERWIN WILLIAMS "LET IT RAIN" SW9152
10 41 16.A1	EMERGENCY KEY BOX
28 15 11.A1	CARD READER

LEGEND

- ROOF BEYOND
- CEMENT PLASTER - LA HABRA, FRENCH VANILLA X-55, FINE FLOAT FINISH
- CEMENT BOARD - SMOOTH FINISH NICHIHA - ILLUMINATION - SEE BELOW FOR COLORS
- CEMENT BOARD - GROOVED TEXTURED FINISH NICHIHA - DIMENSION - RIBBED - IVORY

SMOOTH FINISH CEMENT BOARD COLORS



FOG
NICKEL
GRANITE
GRANITE
LAVA
SCARLET

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APP: 04-121018 INC:
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AUDREY K. STEWART
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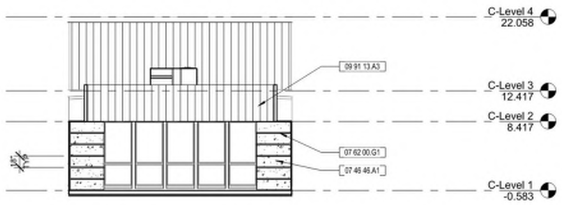
DRAWN BY:	MEP
CHECKED BY:	JM / AS

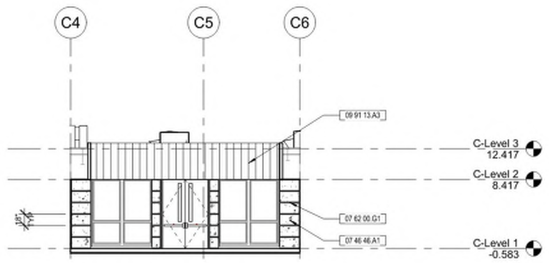
EXTERIOR ELEVATIONS - BUILDING C

A-223

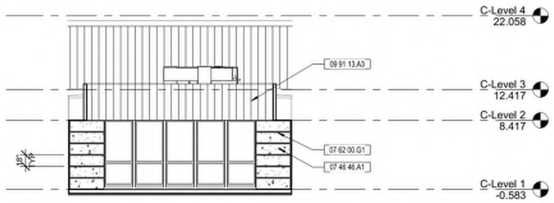
9/27/2022 9:26:02 AM



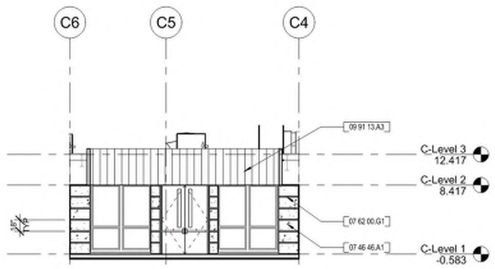
1 WEST COURTYARD ELEVATION - BUILDING C
1/8" = 1'-0"



2 NORTH COURTYARD ELEVATION - BUILDING C
1/8" = 1'-0"



3 EAST COURTYARD ELEVATION - BUILDING C
1/8" = 1'-0"



4 SOUTH COURTYARD ELEVATION - BUILDING C
1/8" = 1'-0"

GENERAL NOTES

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07 62 00.G1	FIBRE CEMENT SIDING H-MOLD TRIM, REFER TO 7/A-905
09 91 13.A3	PAINT METAL FASCIA SHERWIN WILLIAMS "LET IT RAIN" SW9152

LEGEND

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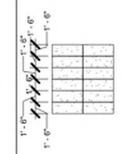
CEMENT PLASTER - LA HABRA, FRENCH VANILLA X-55, FINE FLOAT FINISH

CEMENT BOARD - SMOOTH FINISH
NICHIHA - ILLUMINATION - SEE BELOW FOR COLORS

CEMENT BOARD - GROOVED TEXTURED FINISH
NICHIHA - DIMENSION - RIBBED - IVORY

SMOOTH FINISH CEMENT BOARD COLORS



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SDVOSB

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ANDREW K. STRATTON
No. C28089
REN 08/31/23
STATE OF CALIFORNIA

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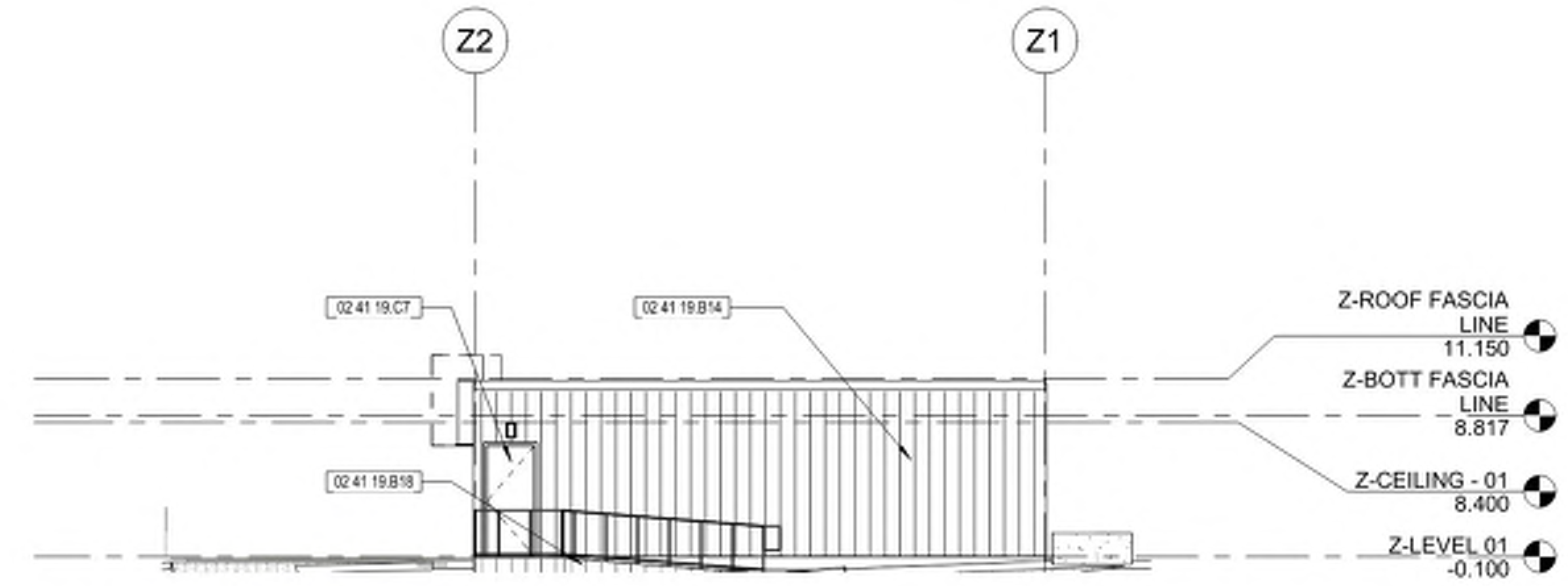
DRAWN BY:	MEP
CHECKED BY:	JM / AS

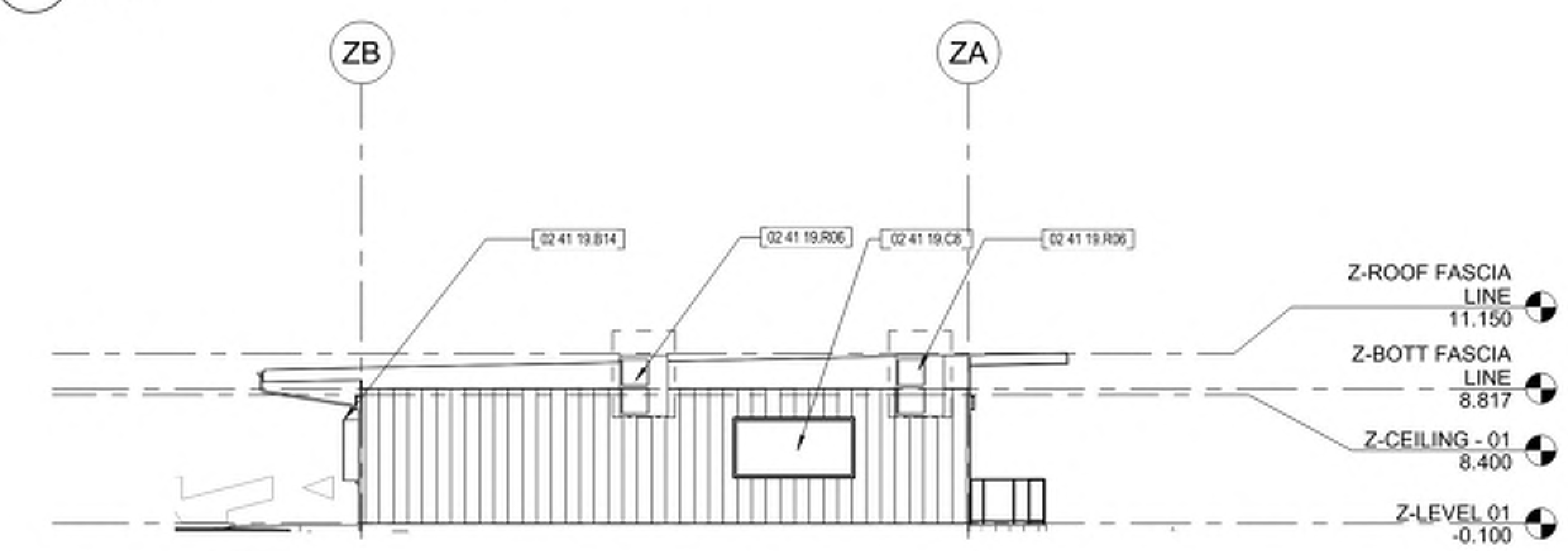
COURTYARD EXTERIOR ELEVATIONS - BUILDING C

A-224

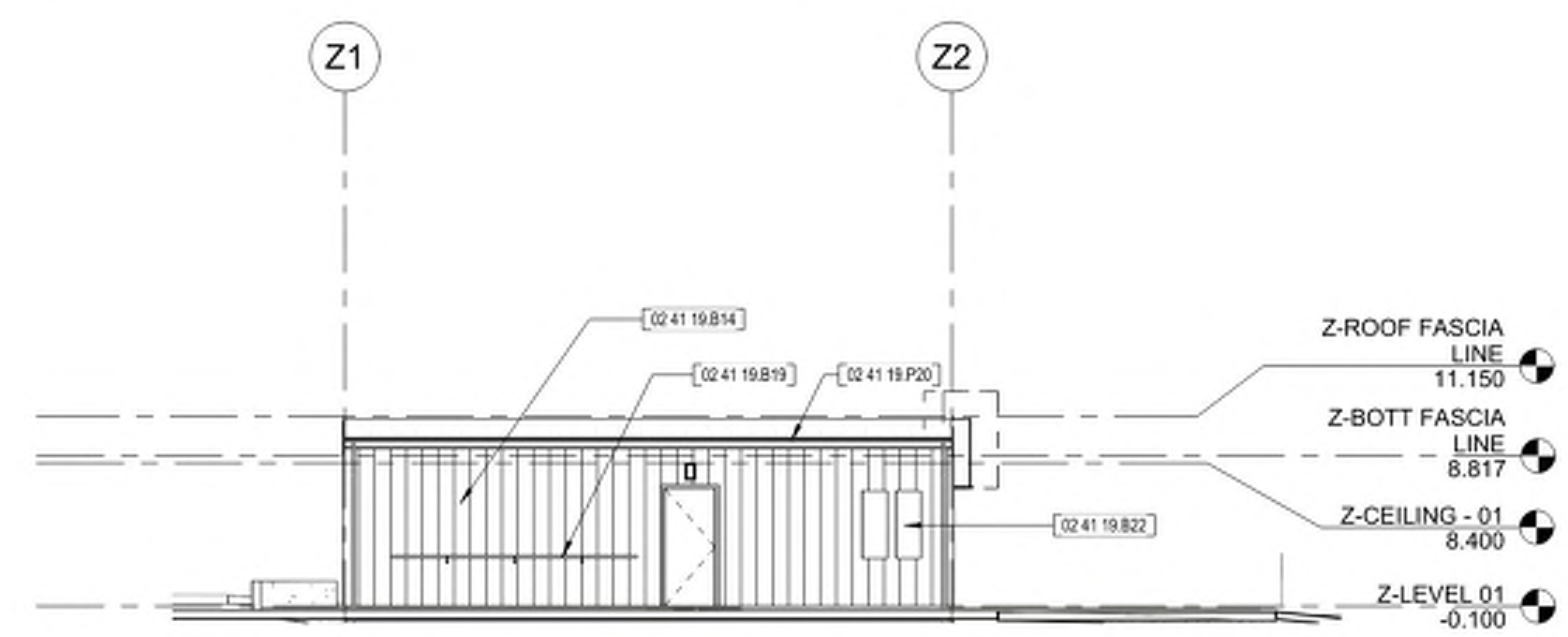
9/27/2022 9:26:07 AM



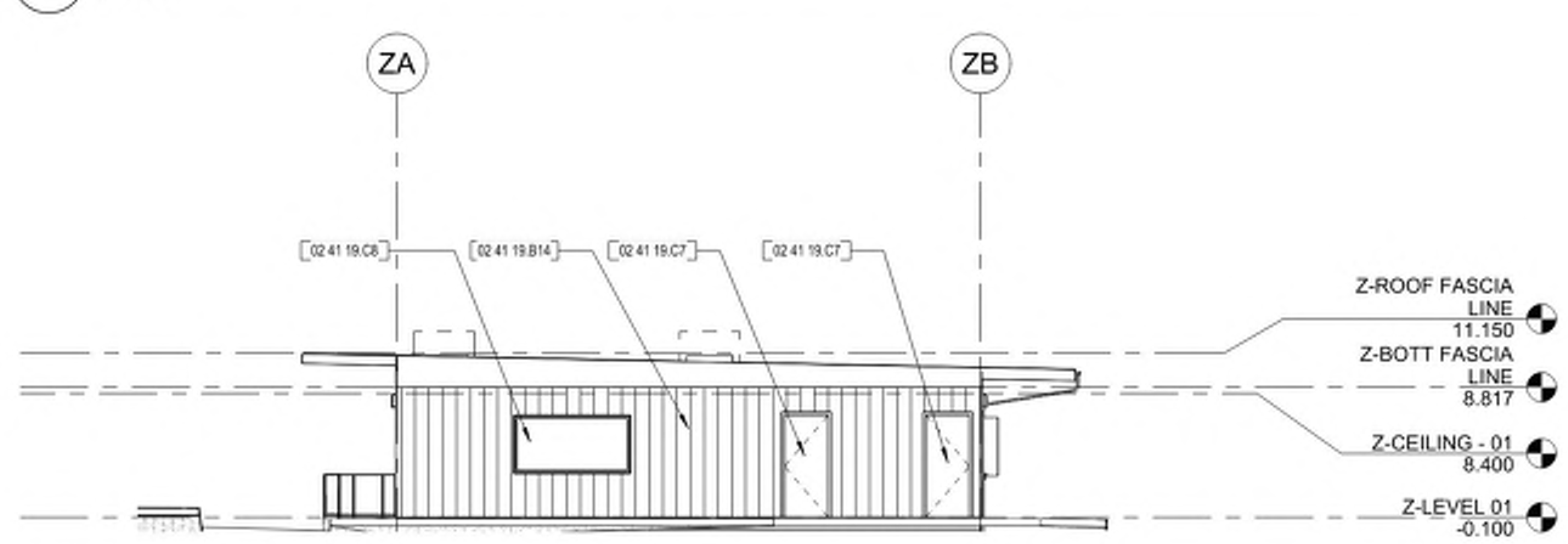
1 NORTH ELEVATION - BUILDING P101 - DEMOLITION
1/8" = 1'-0"



2 EAST ELEVATION - BUILDING P101 - DEMOLITION
1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING P101 - DEMOLITION
1/8" = 1'-0"



4 WEST ELEVATION - BUILDING P101 - DEMOLITION
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GENERAL NOTES

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KEYNOTES

02 41 19.B14	REMOVE EXTERIOR WOOD SIDING AND SHEATHING, (STUDS TO REMAIN, PROTECT IN PLACE)
02 41 19.B18	DEMOLISH EXISTING COMPOSITE RAMP, LANDING & RAILINGS
02 41 19.B19	REMOVE EXISTING WALL MOUNT METAL HANDRAIL
02 41 19.B22	WALL MOUNTED ELECTRICAL SWITCHGEAR, REMOVE & REPLACE AFTER WALL SURFACE REWORK
02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C8	REMOVE WINDOW, FRAME AND ASSEMBLY, TYP
02 41 19.P20	REMOVE EXISTING GUTTER AND DOWNSPOUTS
02 41 19.R06	EXISTING WALL MOUNT HVAC UNIT TO BE REMOVED, REMOVE ALL ASSOCIATED DUCTING & REGISTERS

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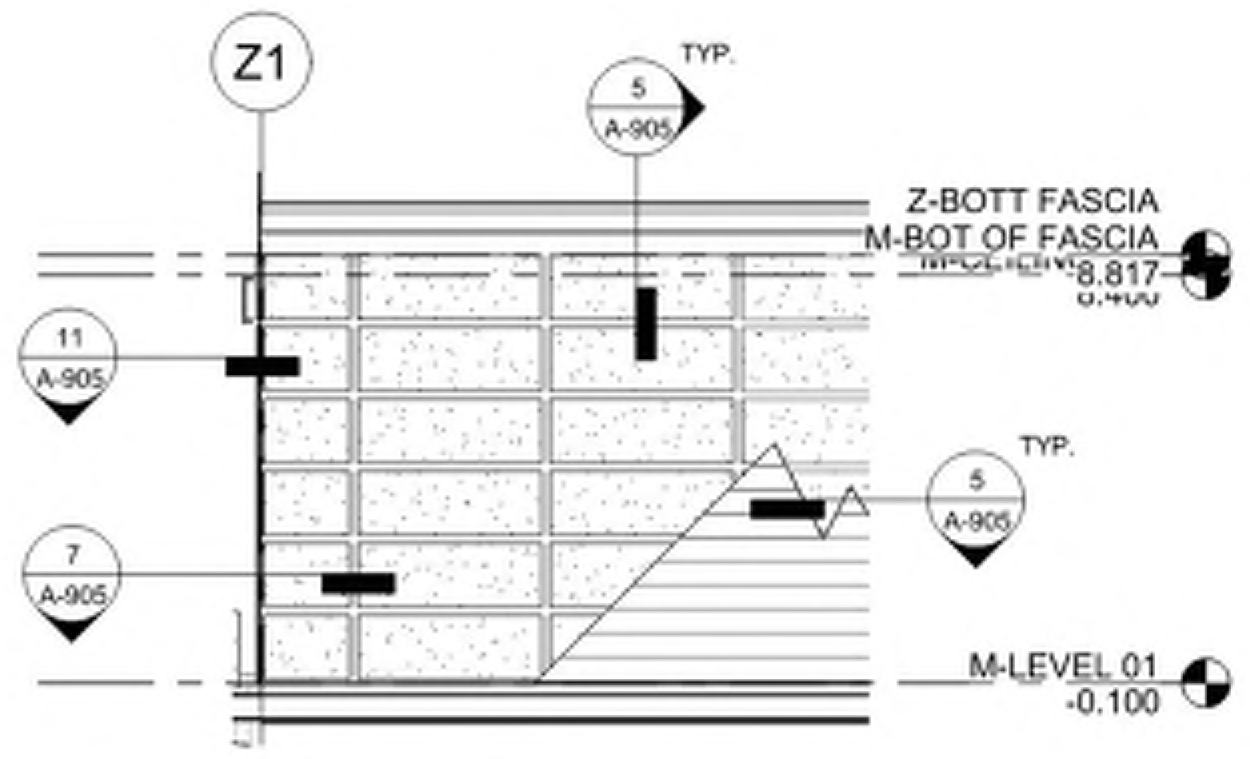
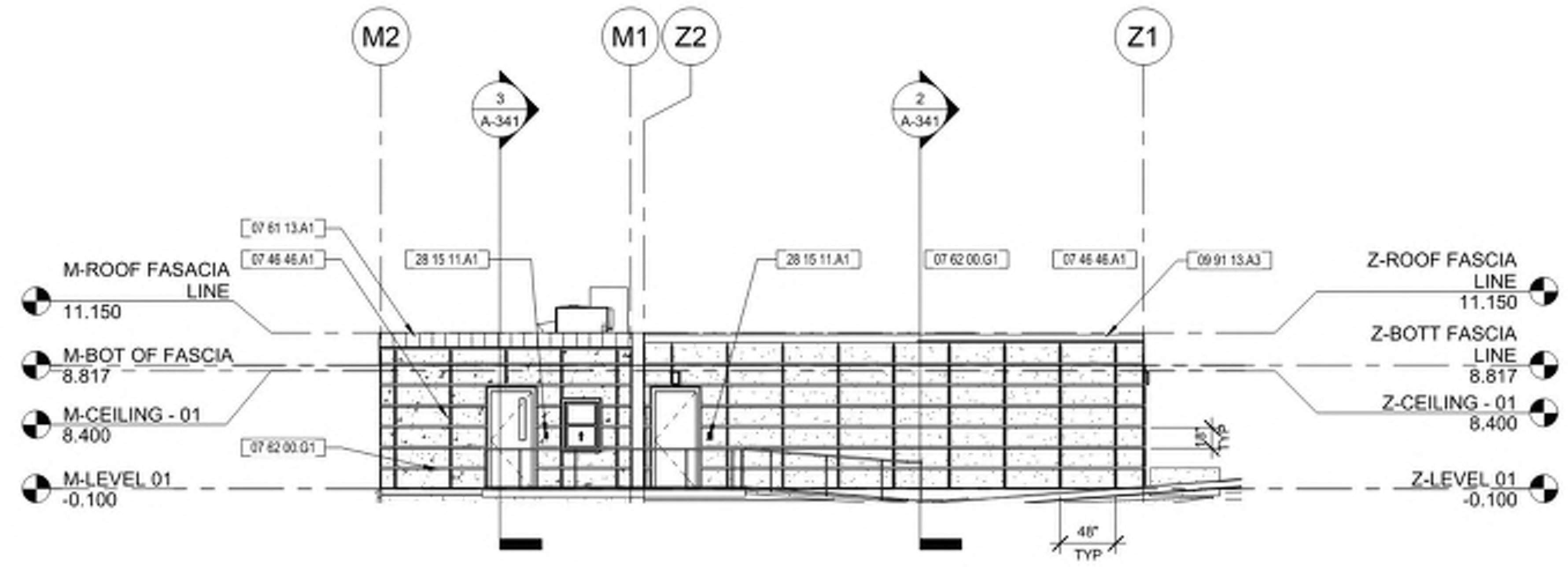
DEMOLITION EXTERIOR ELEVATIONS - BUILDING P101

A-241

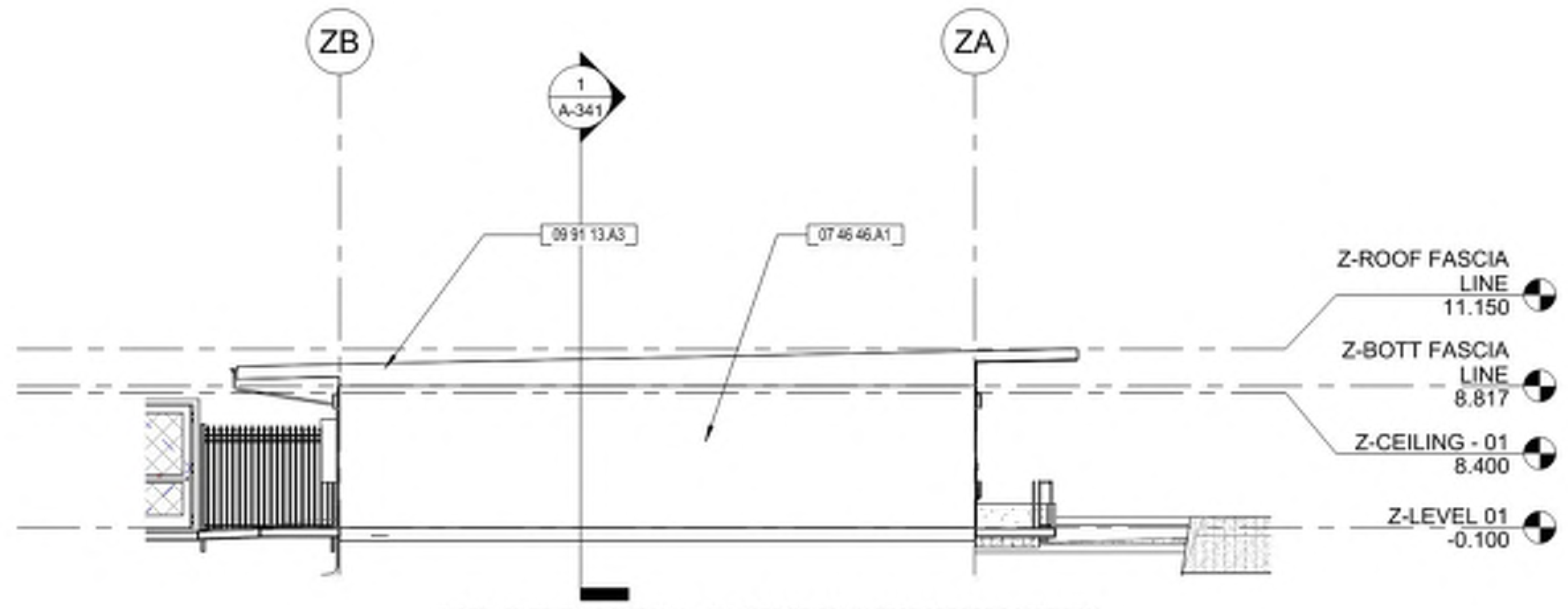
9/27/2022 9:26:11 AM



7 DETAIL PARTIAL ELEVATION - P101
1/4" = 1'-0"

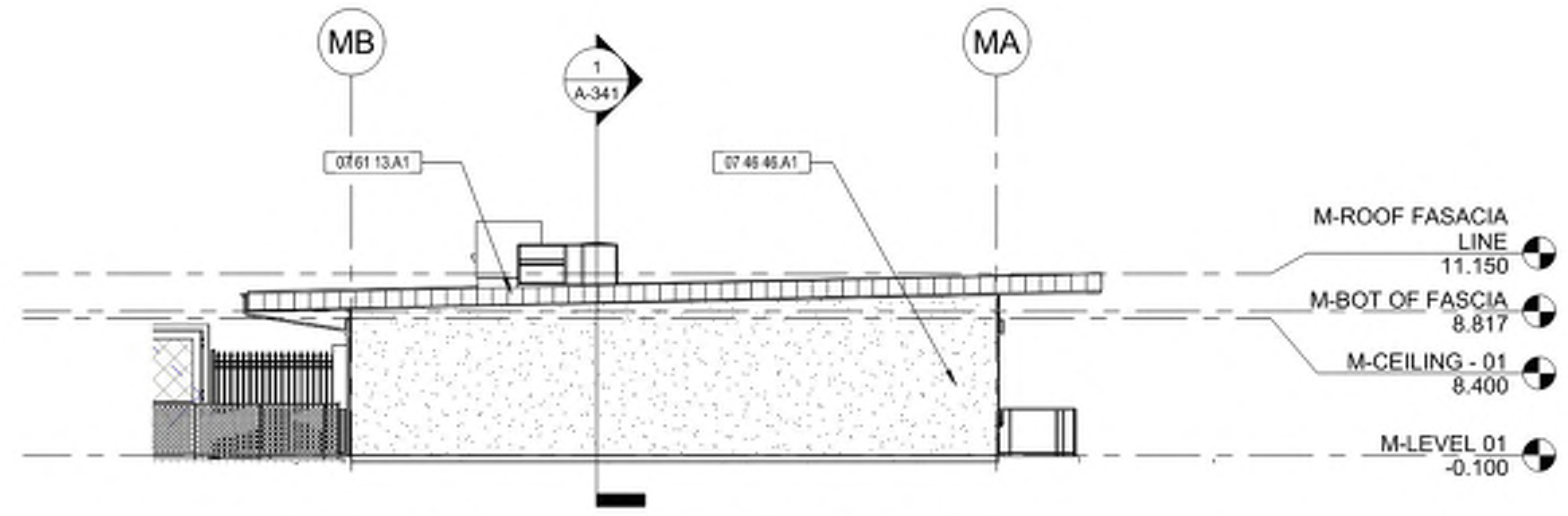


1 NORTH ELEVATION - BUILDING P101 / BOOKROOM
1/8" = 1'-0"



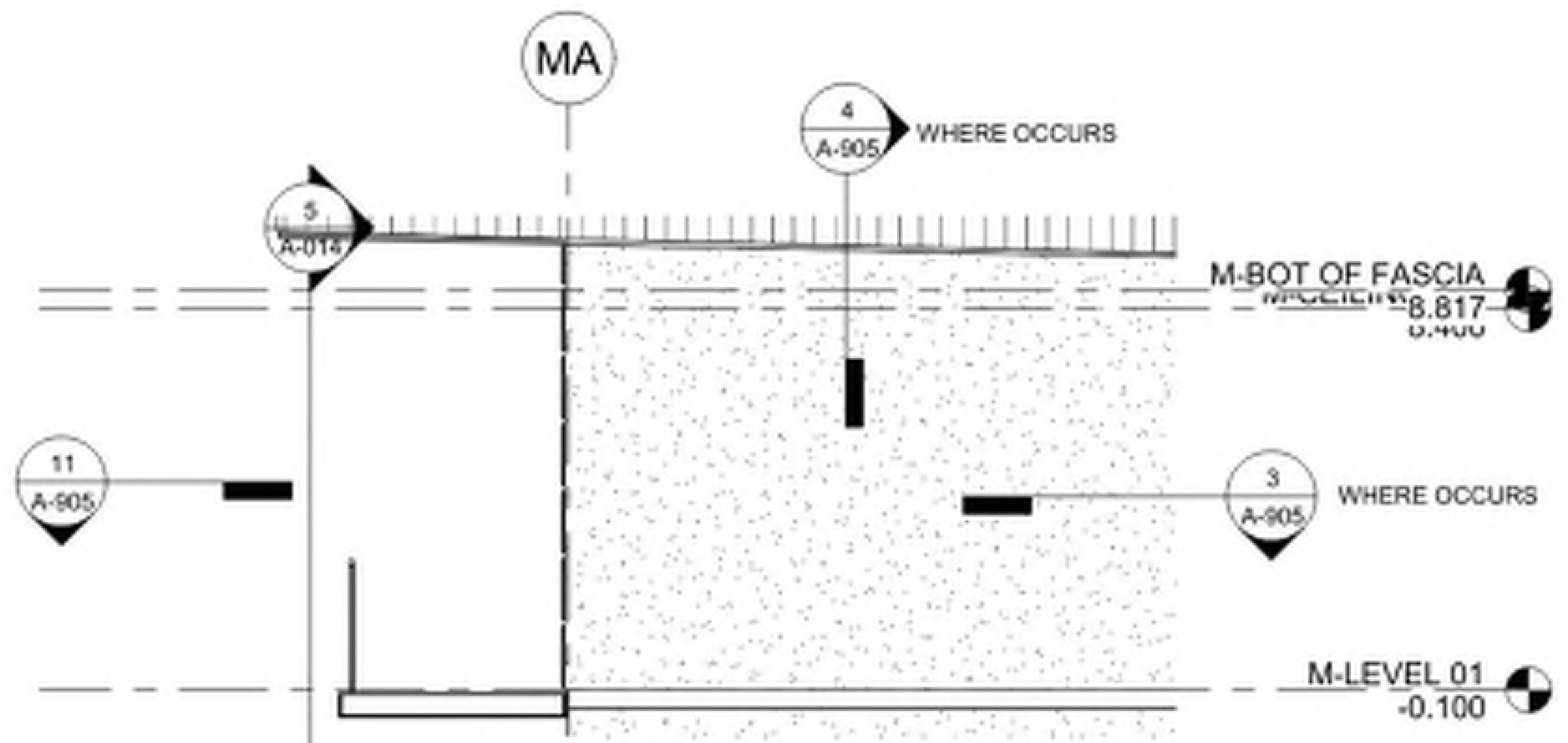
NOTE: NO REVEALS THIS WALL. WALL TO BE COMPLETED BEFORE BOOKROOM

5 EAST ELEVATION - BUILDING P101
1/8" = 1'-0"

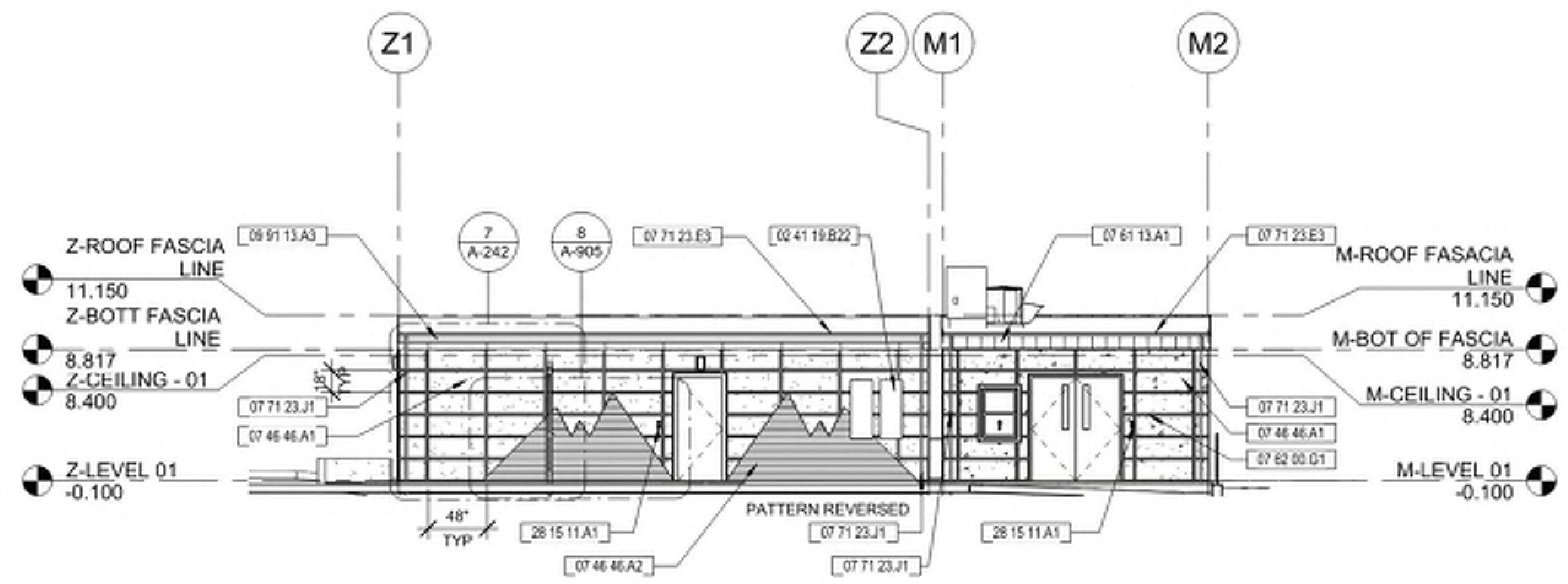


NOTE: NO REVEALS THIS WALL. WALL MUST BE CONSTRUCTED ON GROUND AND TILTED UP

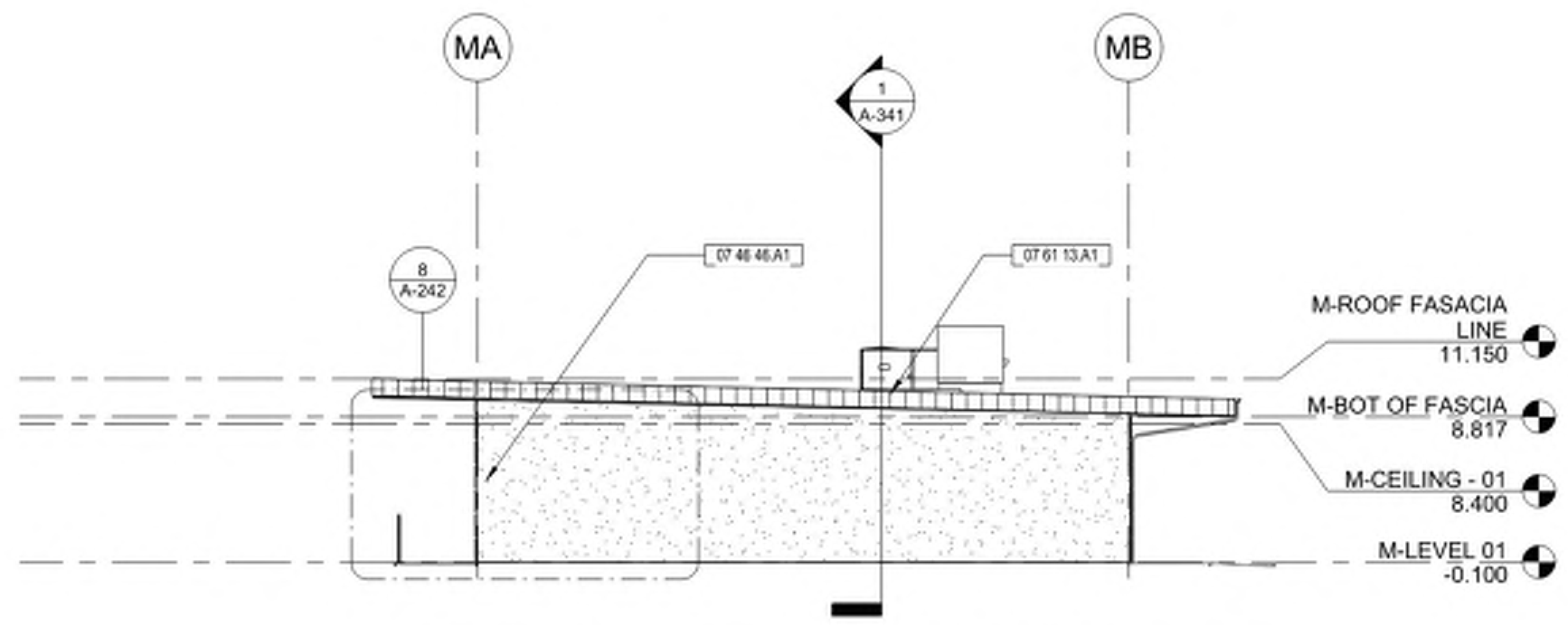
2 EAST ELEVATION - BOOKROOM
1/8" = 1'-0"



8 DETAIL PARTIAL ELEVATION - BOOKROOM
1/4" = 1'-0"

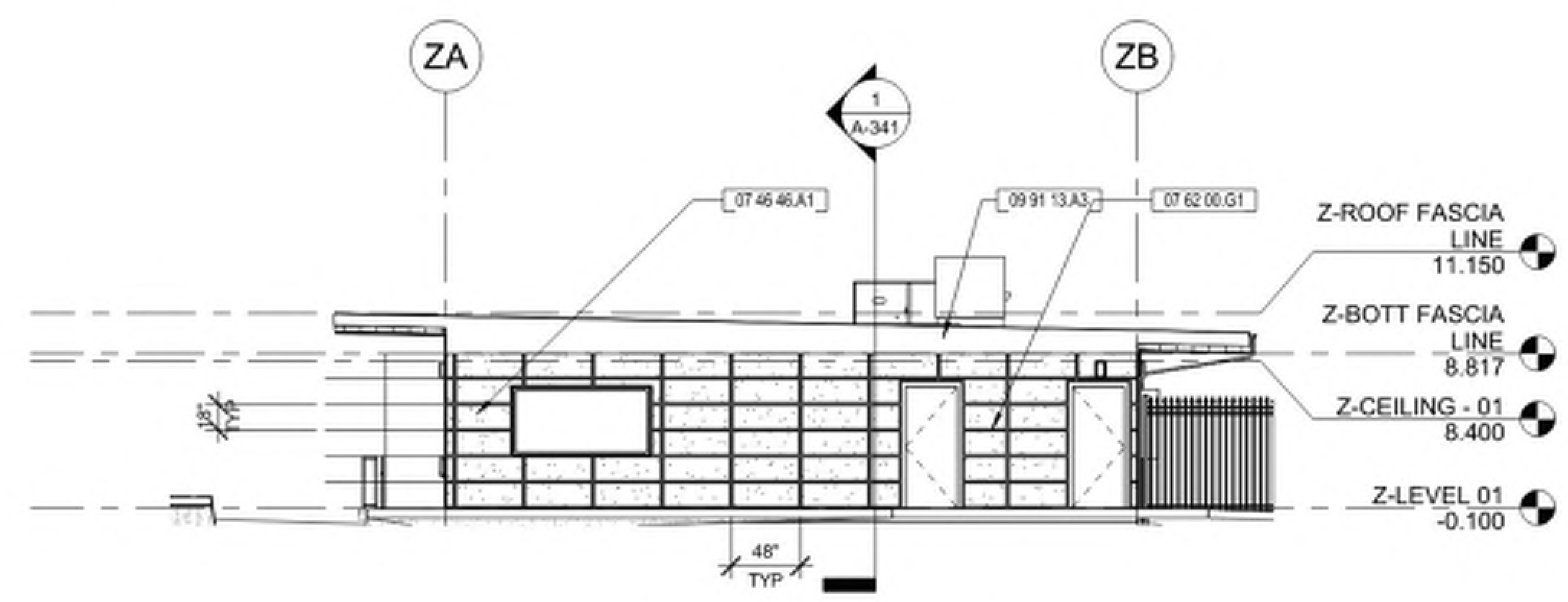


3 SOUTH ELEVATION - BUILDING P101 / BOOKROOM
1/8" = 1'-0"



NOTE: NO REVEALS THIS WALL. WALL MUST BE CONSTRUCTED ON GROUND AND TILTED UP

6 WEST ELEVATION - BOOKROOM
1/8" = 1'-0"



4 WEST ELEVATION - BUILDING P101
1/8" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
2. DIMENTIONS FOR MIRRORED OR SYMETRICAL CONSTRUCTION MAY BE ILLUSTRATED AT ONE SIDE AND SHALL BE ASSUMED SIMILAR FOR THE OTHER.
3. KEYNOTES MAY BE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. SIMILAR CONSTRUCTION OR BUILDING ELEMENTS SHALL BE ASSUMED TO BE NOTED SIMILARLY. KEYNOTES APPLY TYPICALLY, U.O.N.

KEYNOTES

02 41 19.B22	WALL MOUNTED ELECTRICAL SWITCHGEAR, REMOVE & REPLACE AFTER WALL SURFACE REWORK
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 46 46.A2	FIBRE CEMENT SIDING - GROOVED-TEXTURED FINISH
07 61 13.A1	METAL FASCIA REFER TO 6/A-921, PAINT "LET IT RAIN" SW9152
07 62 00.G1	FIBRE CEMENT SIDING H-MOLD TRIM, REFER TO 7/A-905
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
09 91 13.A3	PAINT METAL FASCIA SHERWIN WILLIAMS "LET IT RAIN" SW9152
28 15 11.A1	CARD READER

LEGEND

ROOF BEYOND

CEMENT PLASTER - LA HABRA, FRENCH VANILLA X-55, FINE FLOAT FINISH

CEMENT BOARD - SMOOTH FINISH
NICHIHA - ILLUMINATION - SEE BELOW FOR COLORS

CEMENT BOARD - GROOVED TEXTURED FINISH
NICHIHA - DIMENSION - RIBBED - IVORY

SMOOTH FINISH CEMENT BOARD COLORS

FOG
NICKEL
GRANITE
GRANITE
LAVA
SCARLET

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DATE: 10/25/2022

DAVY ARCHITECTURE
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1053 TENTH AVENUE
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Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

EXTERIOR ELEVATIONS - BUILDINGS P101 & BOOKROOM

A-242

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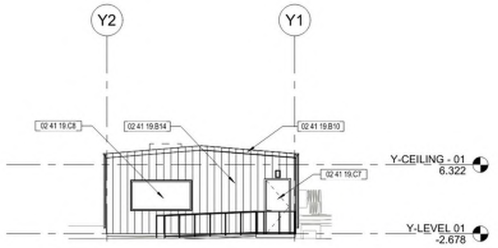
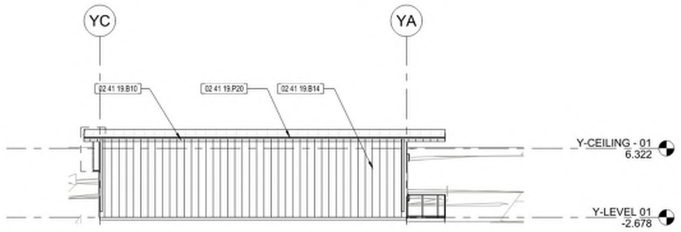
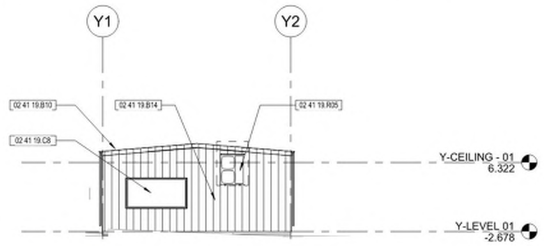


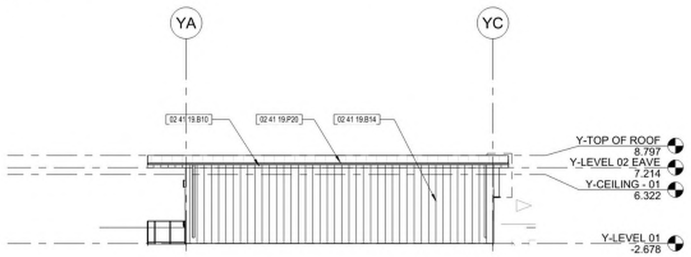
1 NORTH ELEVATION - BUILDING P102 - DEMOLITION
1/8" = 1'-0"



2 EAST ELEVATION - BUILDING P102 - DEMOLITION
1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING P102 - DEMOLITION
1/8" = 1'-0"



4 WEST ELEVATION - BUILDING P102 - DEMOLITION
1/8" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
2. DIMENTIONS FOR MIRRORED OR SYMETRICAL CONSTRUCTION MAY BE ILLUSTRATED AT ONE SIDE AND SHALL BE ASSUMED SIMILAR FOR THE OTHER.
3. KEYNOTES MAY BE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. SIMILAR CONSTRUCTION OR BUILDING ELEMENTS SHALL BE ASSUMED TO BE NOTED SIMILARLY. KEYNOTES APPLY TYPICALLY, U.O.N.

KEYNOTES

02 41 19.B10	EXISTING WOOD FASCIA TO BE REMOVED
02 41 19.B14	REMOVE EXTERIOR WOOD SIDING AND SHEATHING, (STUDS TO REMAIN, PROTECT IN PLACE)
02 41 19.C7	DOOR AND FRAME TO BE REMOVED, TYP
02 41 19.C8	REMOVE WINDOW, FRAME AND ASSEMBLY, TYP
02 41 19.P20	REMOVE EXISTING GUTTER AND DOWNSPOUTS
02 41 19.R05	EXISTING WALL MOUNT HVAC UNIT TO REMAIN, PROTECT IN PLACE

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AUDREY V. SYMKOWICZ
NO. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

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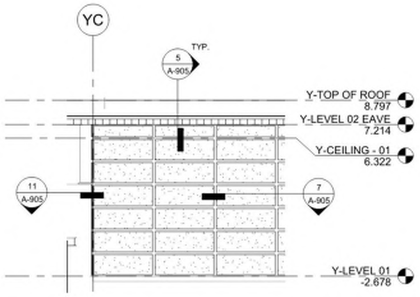
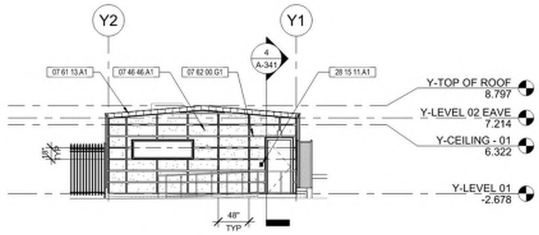
DEMOLITION
EXTERIOR
ELEVATIONS -
BUILDING P102

A-261

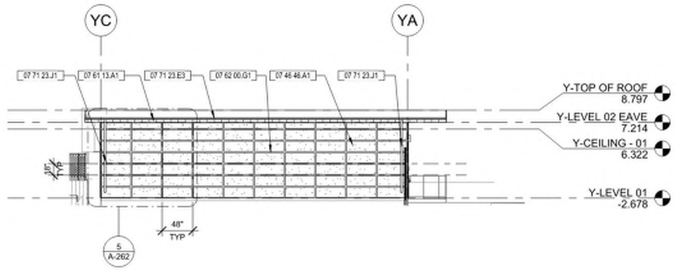
9/27/2022 9:26:25 AM



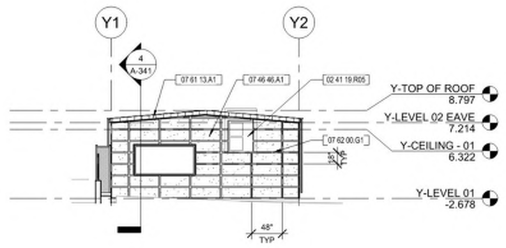
5 DETAIL PARTIAL ELEVATION - P102
1/4" = 1'-0"



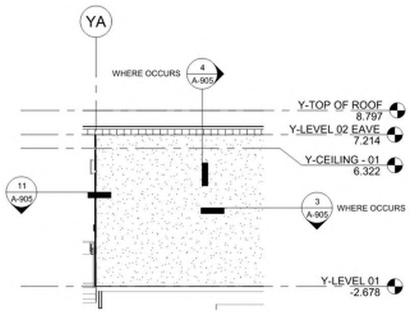
1 NORTH ELEVATION - BUILDING P102
1/8" = 1'-0"



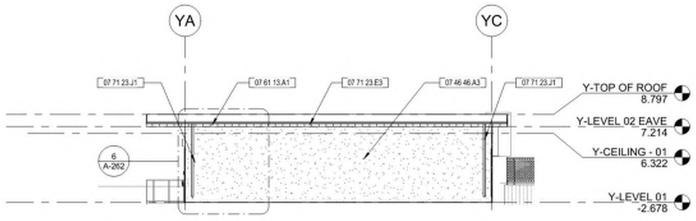
2 EAST ELEVATION - BUILDING P102
1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING P102
1/8" = 1'-0"



6 DETAIL PARTIAL ELEVATION - P102 BLIND WALL
1/4" = 1'-0"



NOTE: NO REVEALS THIS WALL. WALL TO BE COMPLETED BEFORE BOOKROOM

4 WEST ELEVATION - BUILDING P102
1/8" = 1'-0"

GENERAL NOTES

1. ALL ELEVATION HEIGHTS ARE RELATIVE TO THE CIVIL GRADE.
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KEYNOTES

02 41 19.R05	EXISTING WALL MOUNT HVAC UNIT TO REMAIN, PROTECT IN PLACE
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 46 46.A3	FIBRE CEMENT SIDING - NO REVEAL
07 61 13.A1	METAL FASCIA REFER TO 6/A-921, PAINT "LET IT RAIN" SW9152
07 62 00.G1	FIBRE CEMENT SIDING H-MOLD TRIM, REFER TO 7/A-905
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
28 15 11.A1	CARD READER

LEGEND

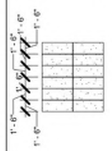
ROOF BEYOND

CEMENT PLASTER - LA HABRA, FRENCH VANILLA X-55, FINE FLOAT FINISH

CEMENT BOARD - SMOOTH FINISH
NICHIHA - ILLUMINATION - SEE BELOW FOR COLORS

CEMENT BOARD - GROOVED TEXTURED FINISH
NICHIHA - DIMENSION - RIBBED - IVORY

SMOOTH FINISH CEMENT BOARD COLORS



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ROBERT K. DAVY
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

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Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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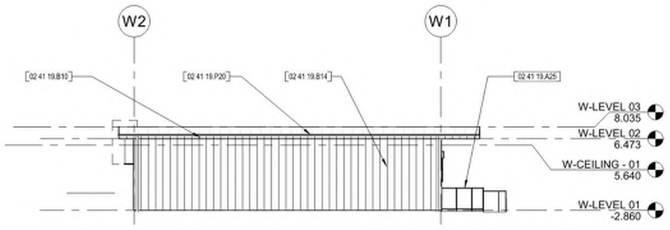
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

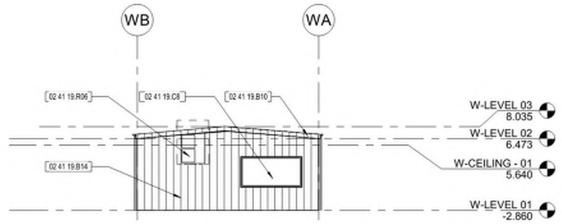
EXTERIOR ELEVATIONS - BUILDING P102

A-262

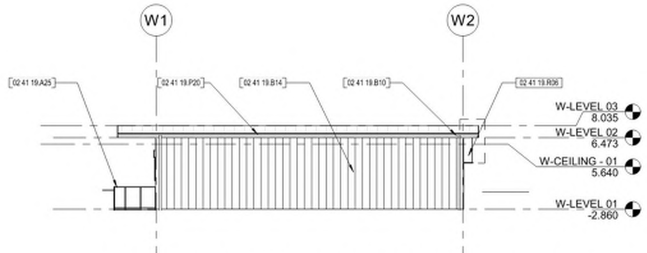
9/27/2022 9:26:33 AM



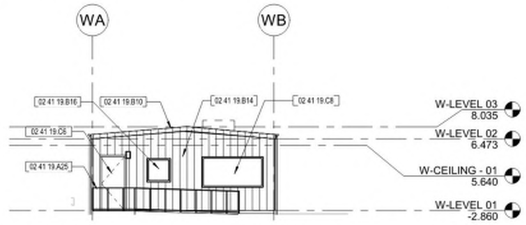
1 NORTH ELEVATION - BUILDING P104 - DEMOLITION
1/8" = 1'-0"



2 EAST ELEVATION - BUILDING P104 - DEMOLITION
1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING P104 - DEMOLITION
1/8" = 1'-0"



4 WEST ELEVATION - BUILDING P104 - DEMOLITION
1/8" = 1'-0"

GENERAL NOTES

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KEYNOTES

02 41 19.A25	EXISTING METAL RAILING TO BE REMOVED
02 41 19.B10	EXISTING WOOD FASCIA TO BE REMOVED
02 41 19.B14	REMOVE EXTERIOR WOOD SIDING AND SHEATHING, (STUDS TO REMAIN, PROTECT IN PLACE)
02 41 19.B16	EXISTING WALL MOUNT DISPLAY CASE TO BE REMOVED
02 41 19.C6	EXISTING DOOR & FRAME TO REMAIN, PROTECT IN PLACE
02 41 19.C8	REMOVE WINDOW, FRAME AND ASSEMBLY, TYP
02 41 19.P20	REMOVE EXISTING GUTTER AND DOWNSPOUTS
02 41 19.R06	EXISTING WALL MOUNT HVAC UNIT TO BE REMOVED, REMOVE ALL ASSOCIATED DUCTING & REGISTERS

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SAN DIEGO, CA 92101
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RODNEY V. DAVY
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

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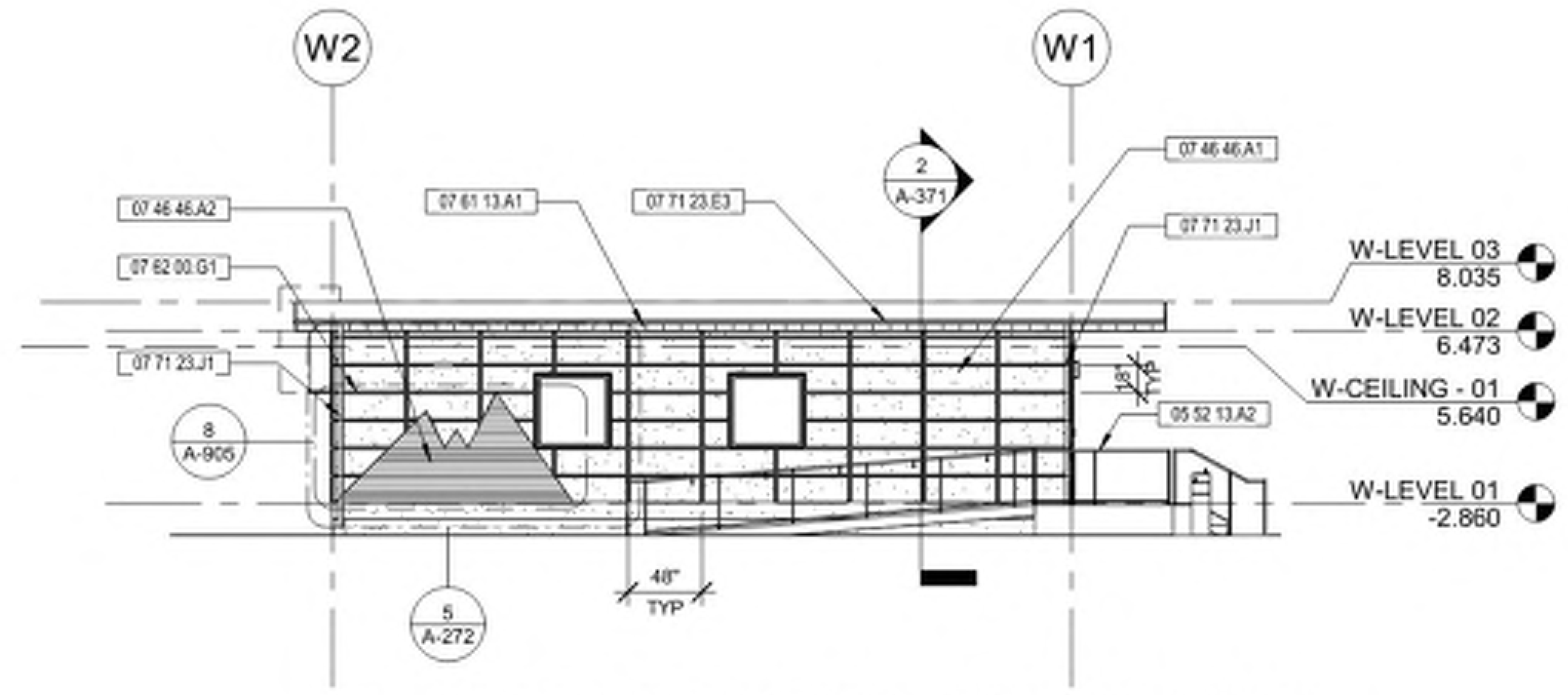
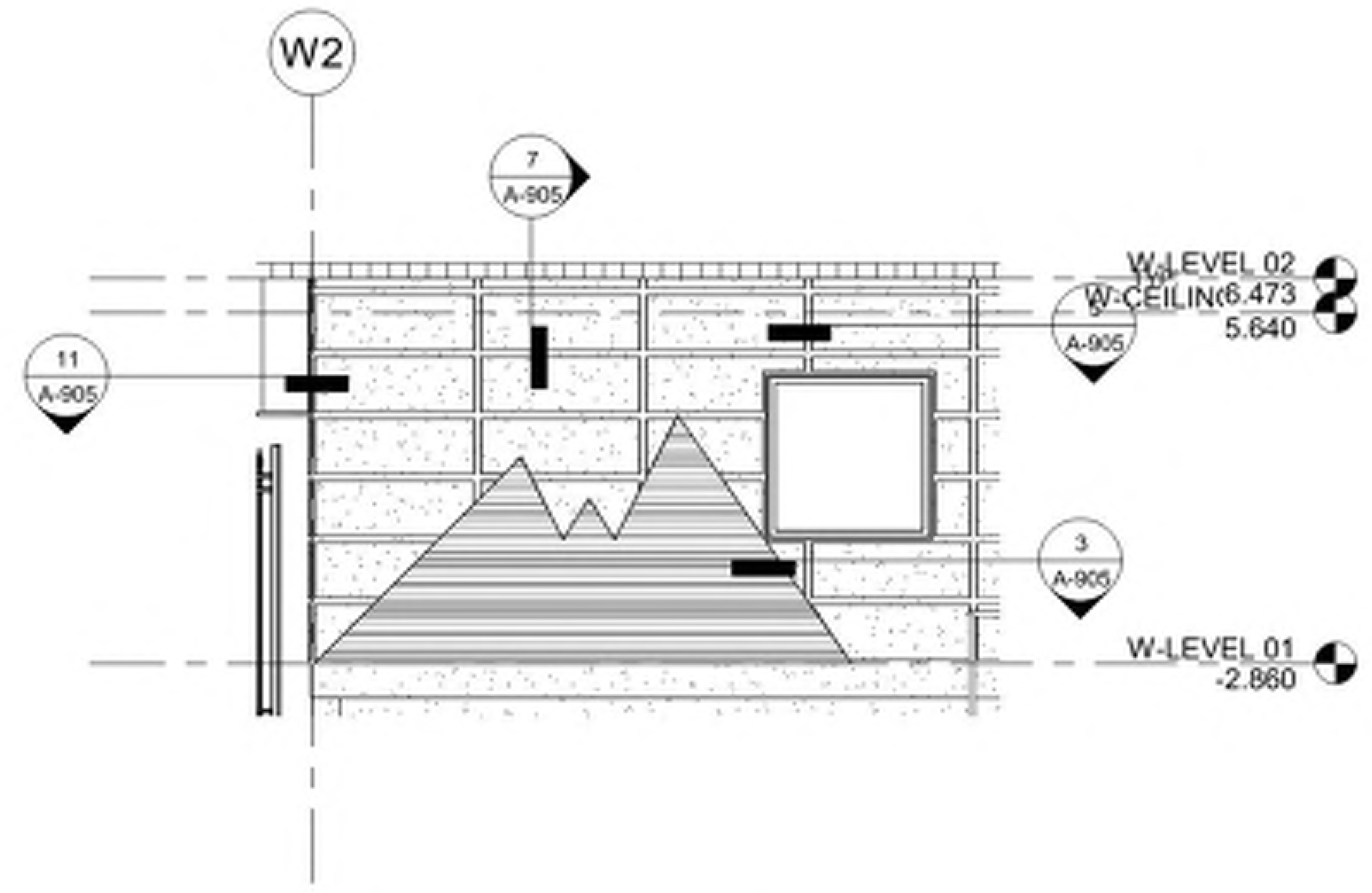
DEMOLITION EXTERIOR ELEVATIONS - BUILDING P104

A-271

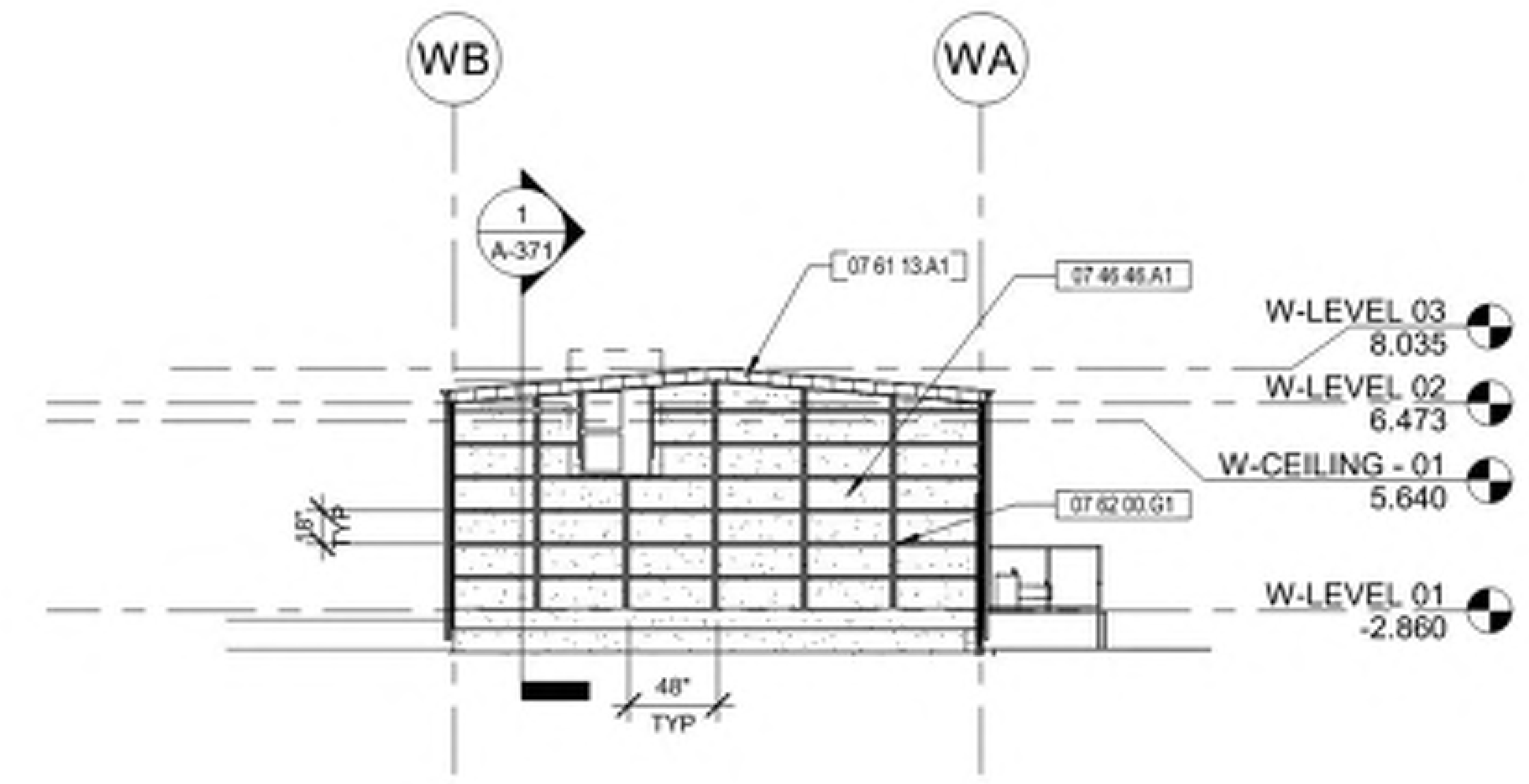
9/27/2022 9:28:37 AM



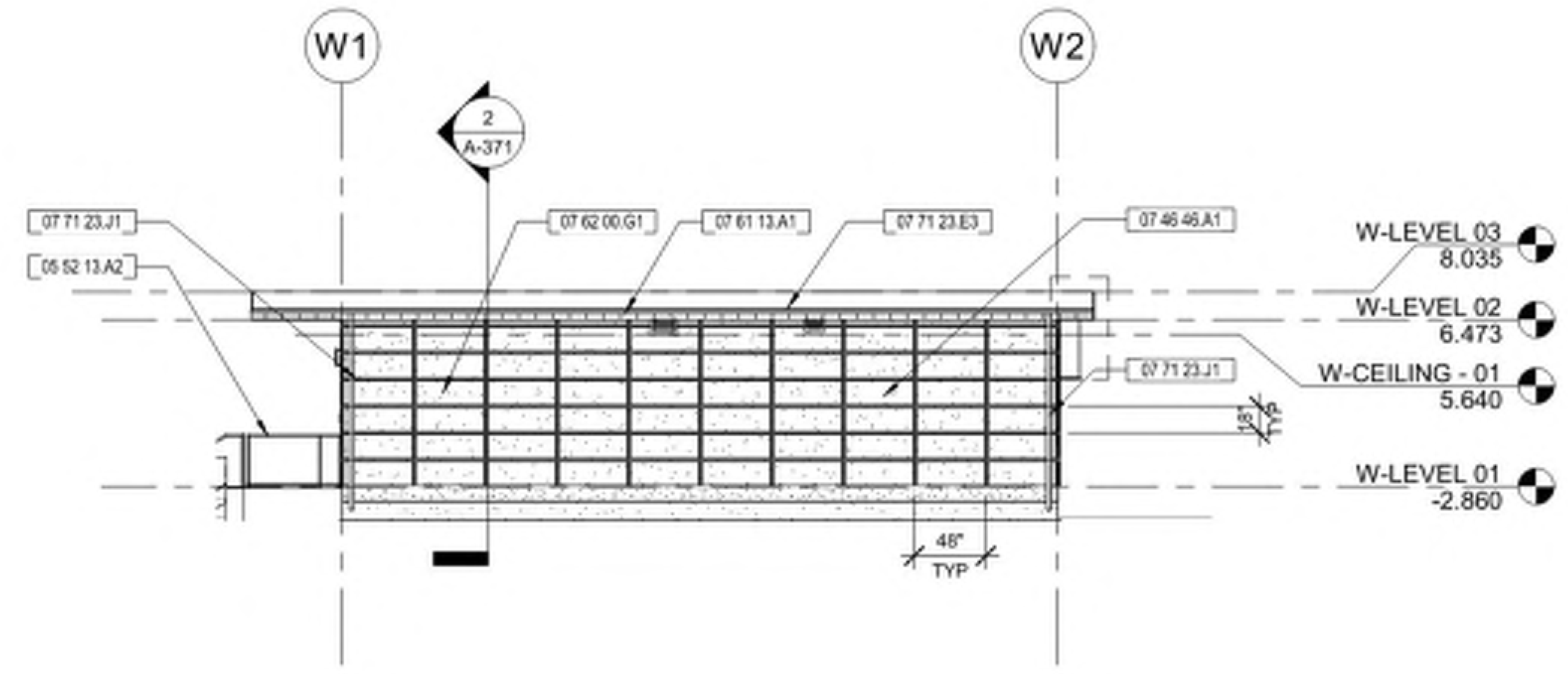
1 NORTH ELEVATION - BUILDING P104
1/8" = 1'-0"



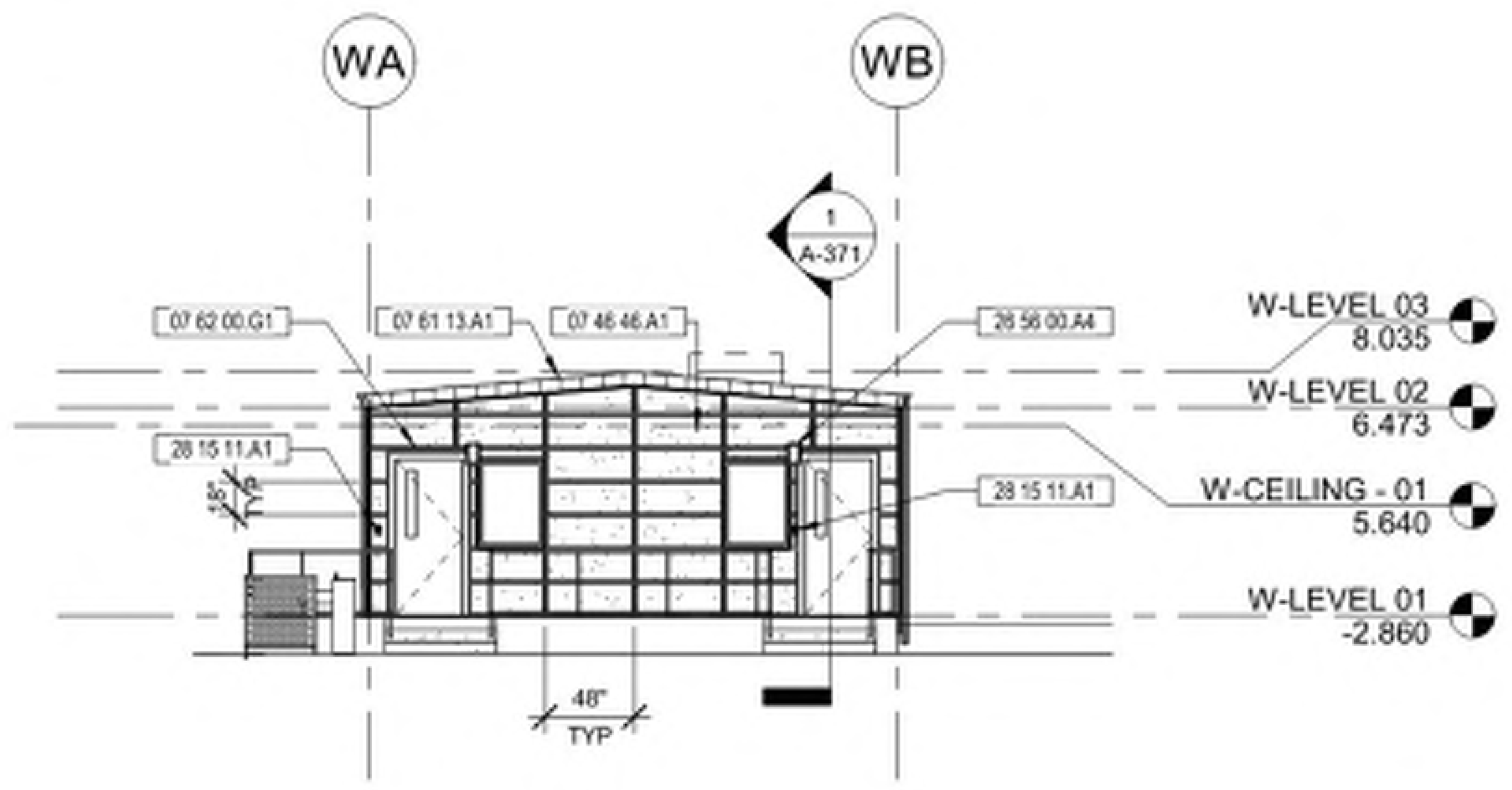
5 DETAIL PARTIAL ELEVATION - P104
1/4" = 1'-0"



2 EAST ELEVATION - BUILDING P104
1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING P104
1/8" = 1'-0"



4 WEST ELEVATION - BUILDING P104
1/8" = 1'-0"

GENERAL NOTES

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KEYNOTES

05 52 13.A2	METAL HAND RAILING, REFER TO 1&5/A-017
07 46 46.A1	FIBRE CEMENT SIDING - SMOOTH FINISH
07 46 46.A2	FIBRE CEMENT SIDING - GROOVED-TEXTURED FINISH
07 61 13.A1	METAL FASCIA REFER TO 6/A-921, PAINT "LET IT RAIN" SW9152
07 62 00.G1	FIBRE CEMENT SIDING H-MOLD TRIM, REFER TO 7/A-905
07 71 23.E3	6" X 4" BEVELED GUTTER
07 71 23.J1	3" X 4" DOWNSPOUT
26 56 00.A4	SURFACE MOUNTED WALL LIGHT FIXTURE
28 15 11.A1	CARD READER

LEGEND

ROOF BEYOND

CEMENT PLASTER - LA HABRA, FRENCH VANILLA X-55, FINE FLOAT FINISH

CEMENT BOARD - SMOOTH FINISH
NICHIHA - ILLUMINATION - SEE BELOW FOR COLORS

CEMENT BOARD - GROOVED TEXTURED FINISH
NICHIHA - DIMENSION - RIBBED - IVORY

SMOOTH FINISH CEMENT BOARD COLORS

1'-6" 1'-6" 1'-6" 1'-6" 1'-6" 1'-6"

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EXTERIOR ELEVATIONS - BUILDING P104

A-272

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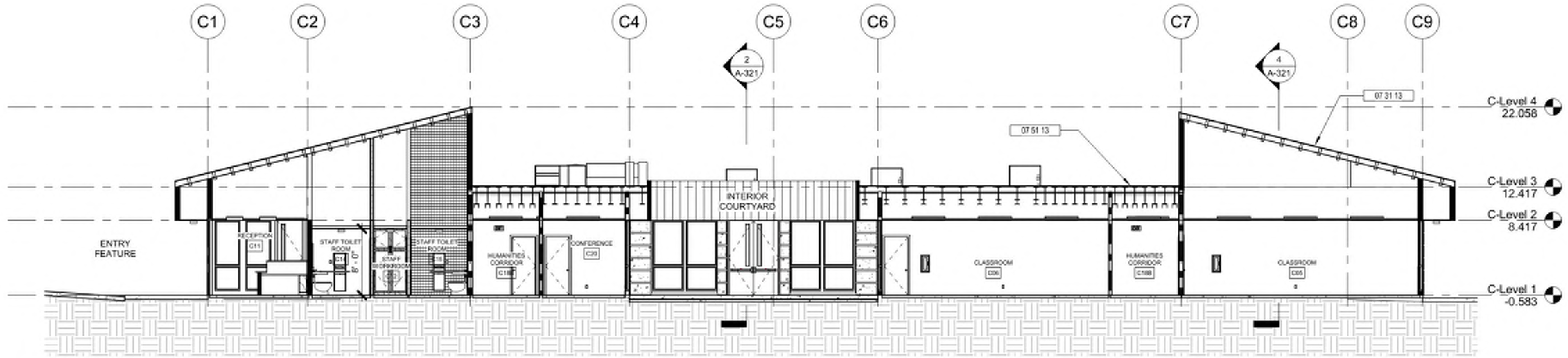
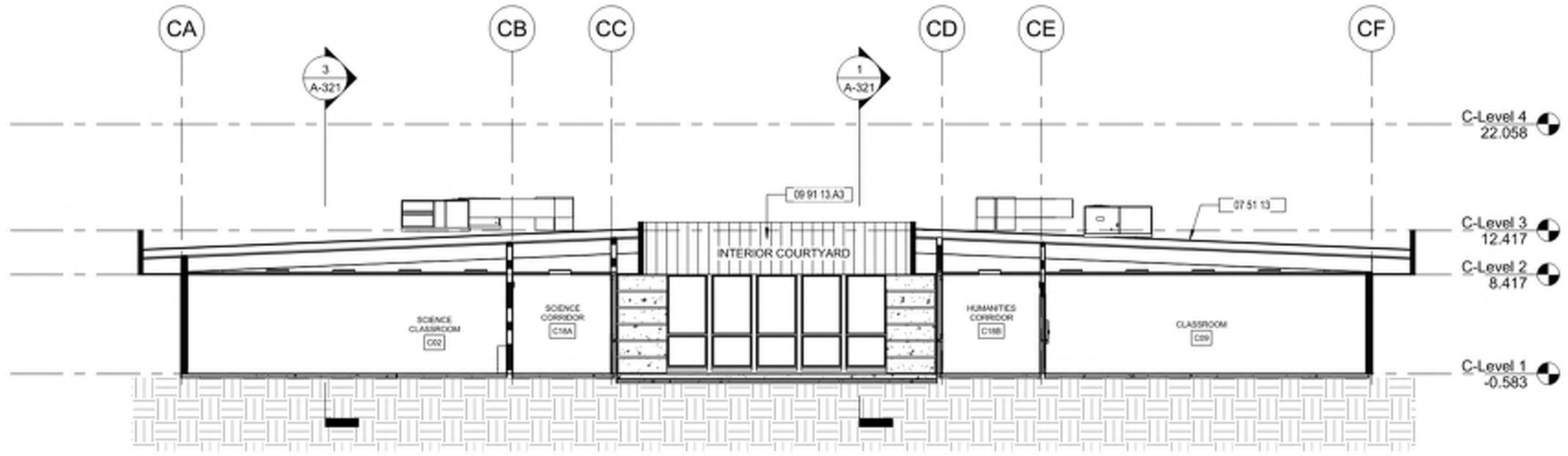
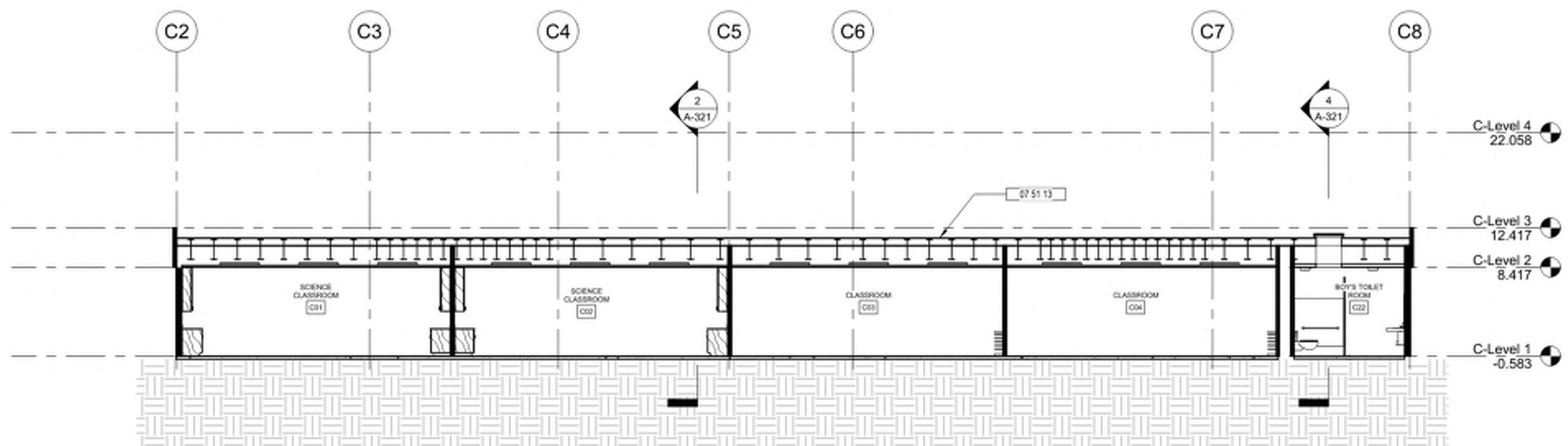


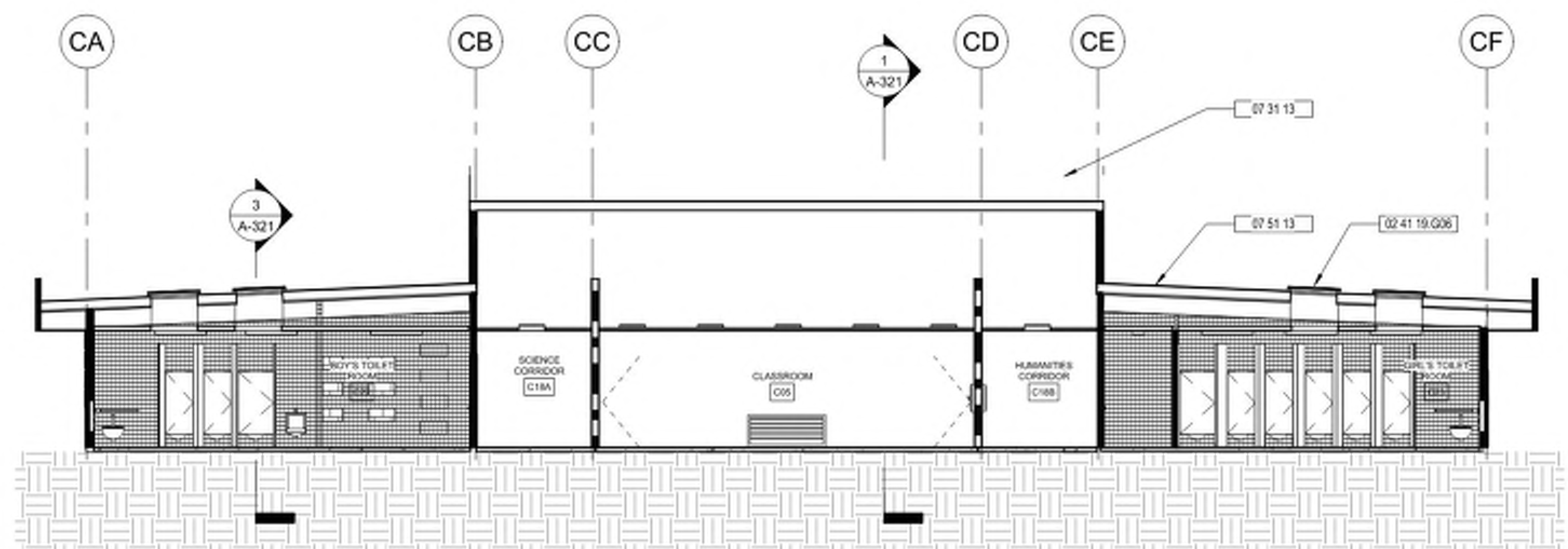
1 BUILDING C SECTION - EAST-WEST
1/8" = 1'-0"



2 BUILDING C SECTION - NORTH-SOUTH
1/8" = 1'-0"



3 BUILDING C SECTION - EAST-WEST
1/8" = 1'-0"



4 BUILDING C SECTION - NORTH-SOUTH
1/8" = 1'-0"

KEYNOTES

02 41 19.G06	EXISTING SKYLIGHT TO REMAIN
07 31 13	ASPHALT SHINGLES
07 51 13	BUILT-UP ASPHALT ROOFING
09 91 13.A3	PAINT METAL FASCIA SHERWIN WILLIAMS "LET IT RAIN" SW9152

DAVY
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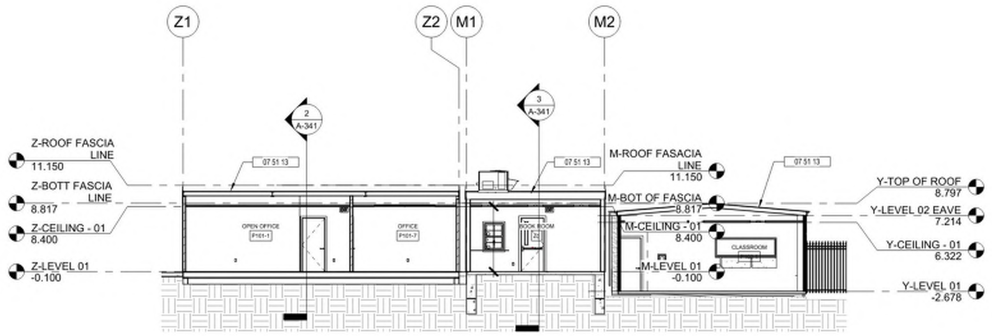
DRAWN BY:	MEP
CHECKED BY:	JM / AS

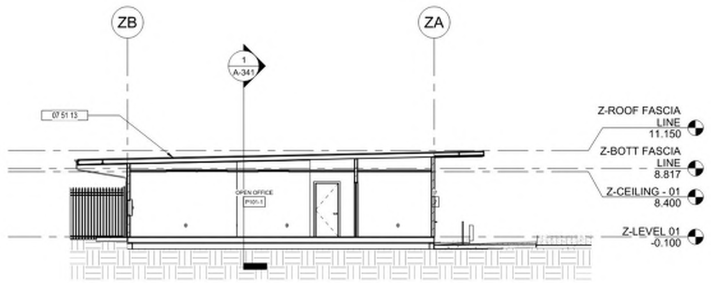
BUILDING SECTIONS - BUILDING C

A-321

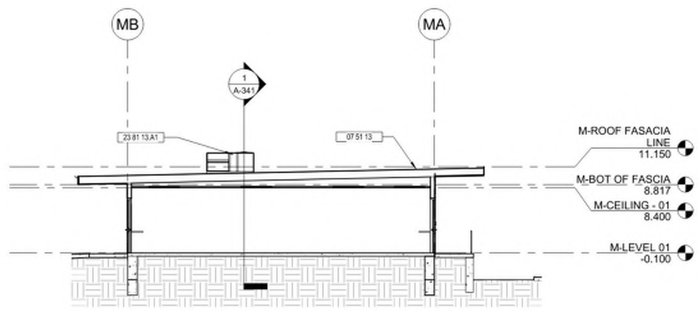
9/27/2022 9:26:52 AM



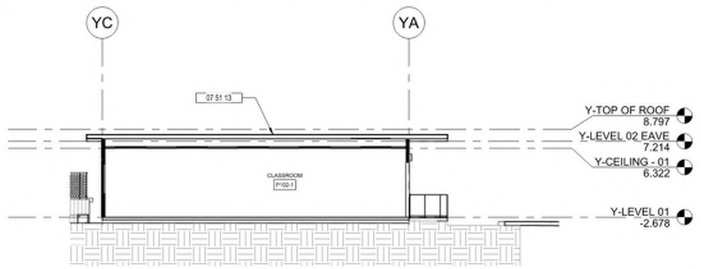
1 BUILDING P101, BOOKROOM & P102 SECTION - EAST-WEST
1/8" = 1'-0"



2 BUILDING P101 SECTION - NORTH-SOUTH
1/8" = 1'-0"



3 BOOKROOM BUILDING SECTION - NORTH-SOUTH
1/8" = 1'-0"



4 BUILDING P102 SECTION - NORTH-SOUTH
1/8" = 1'-0"

KEYNOTES

07 51 13	BUILT-UP ASPHALT ROOFING
23 81 13.A1	HVAC ROOF PACKAGE UNIT, TYP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT
ROBERT V. SUTHERLAND
No. C26089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

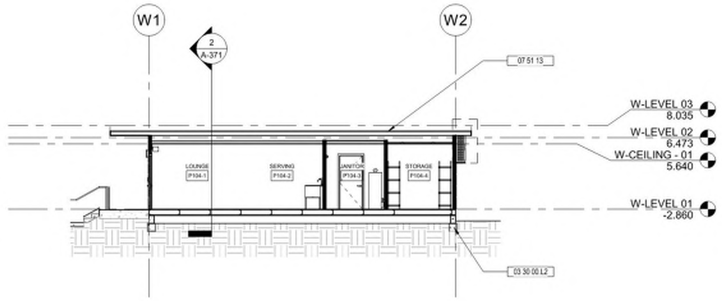
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

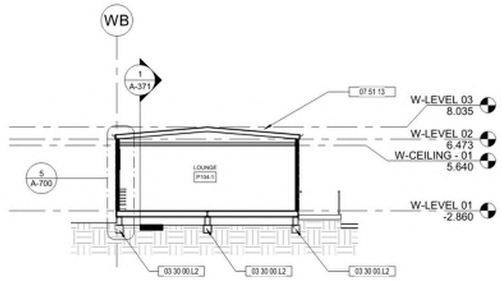
BUILDING SECTIONS - BUILDING P101, BOOKROOM & P102

A-341

9/27/2022 9:26:58 AM



1 BUILDING P104 SECTION - EAST-WEST
1/8" = 1'-0"



2 BUILDING P104 SECTION - NORTH-SOUTH
1/8" = 1'-0"

KEYNOTES

03 30 00 L2	12"X12" CONTINUOUS CONCRETE FOOTING WITH 8" STEMWALL
07 51 13	BUILT-UP ASPHALT ROOFING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
SMALLS VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
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SDVOSB

LICENSED ARCHITECT
ASHLEY K. STEVENS
RENEWAL 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

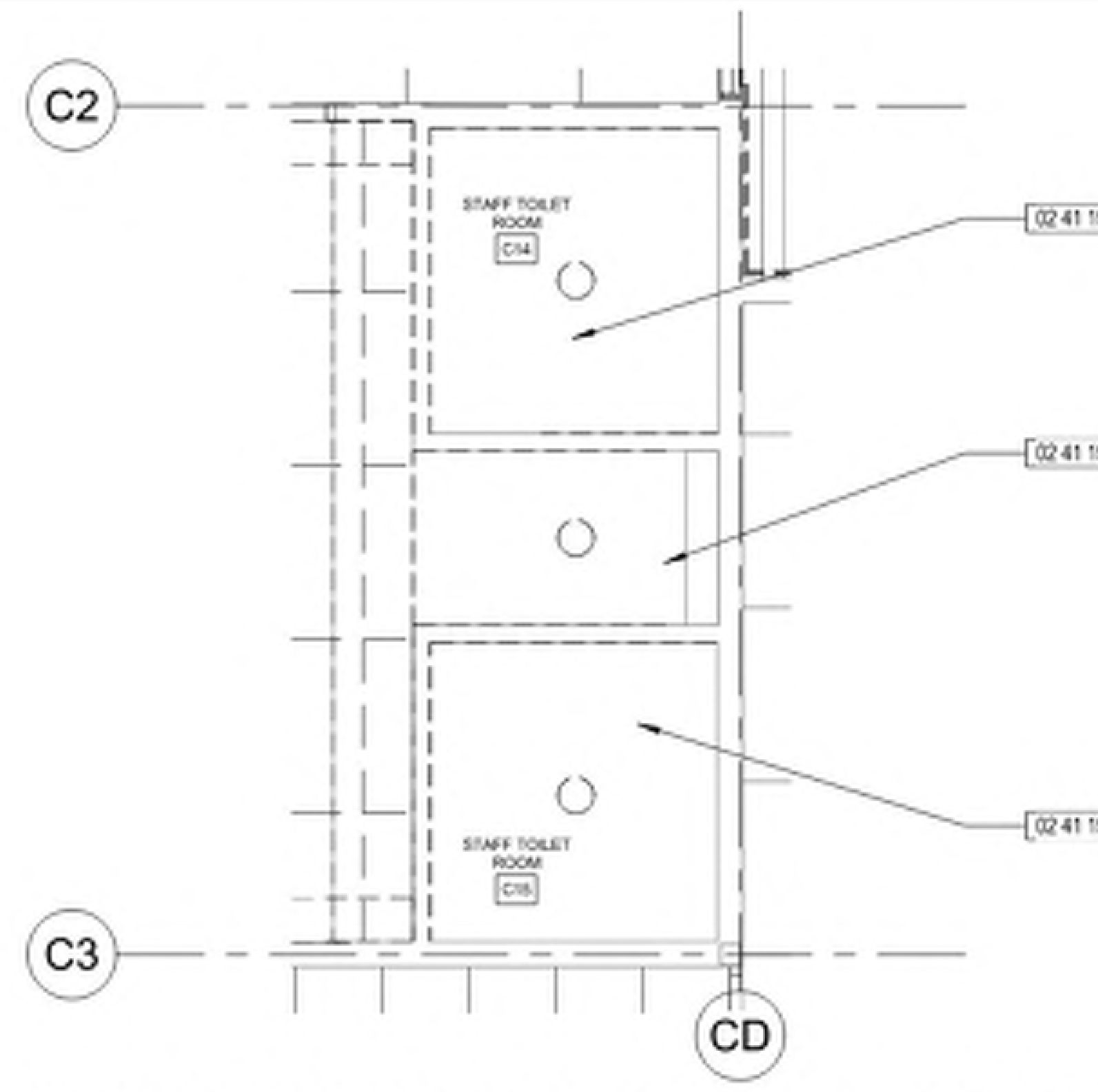
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

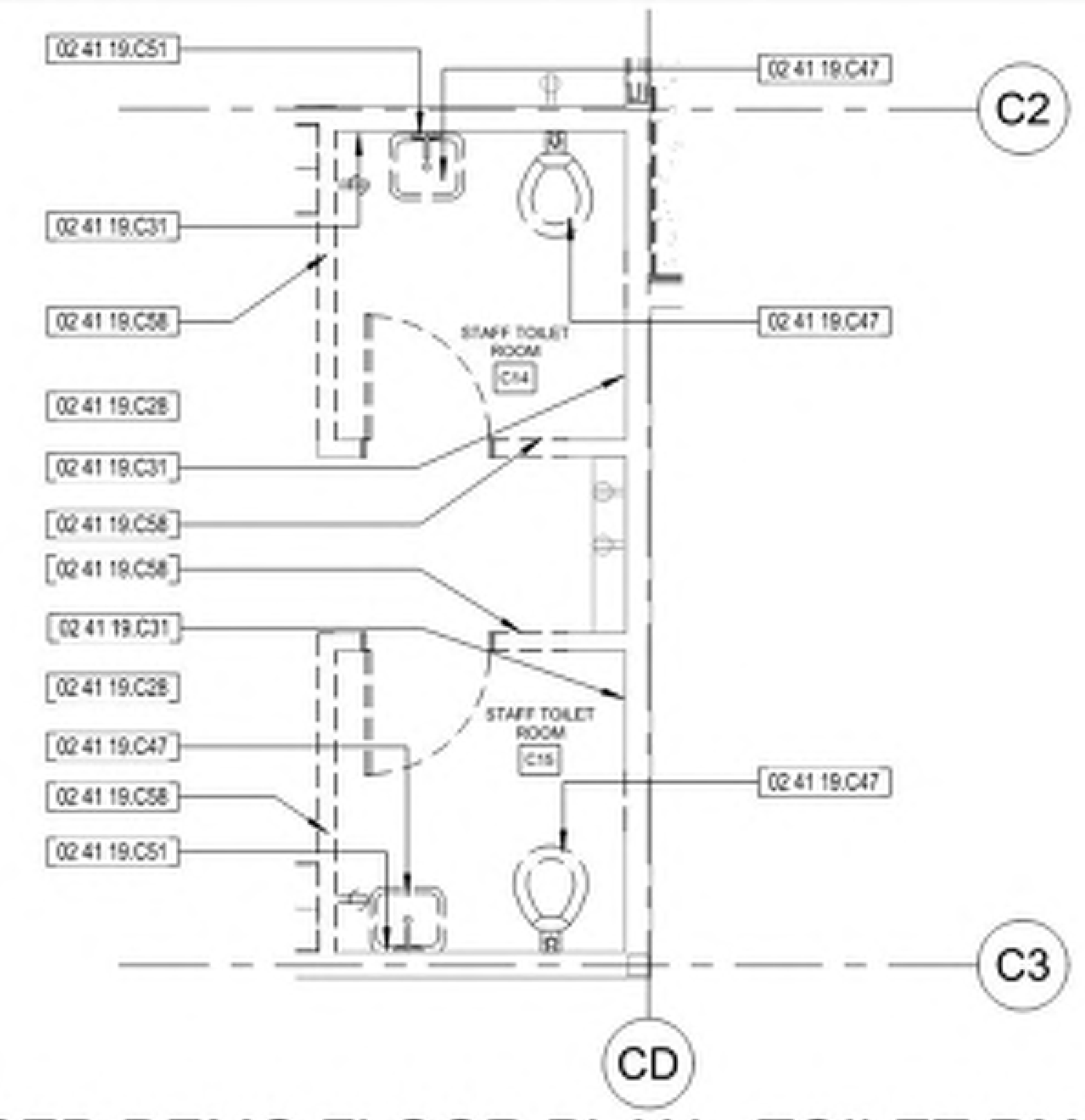
BUILDING SECTIONS - BUILDING P104

A-371

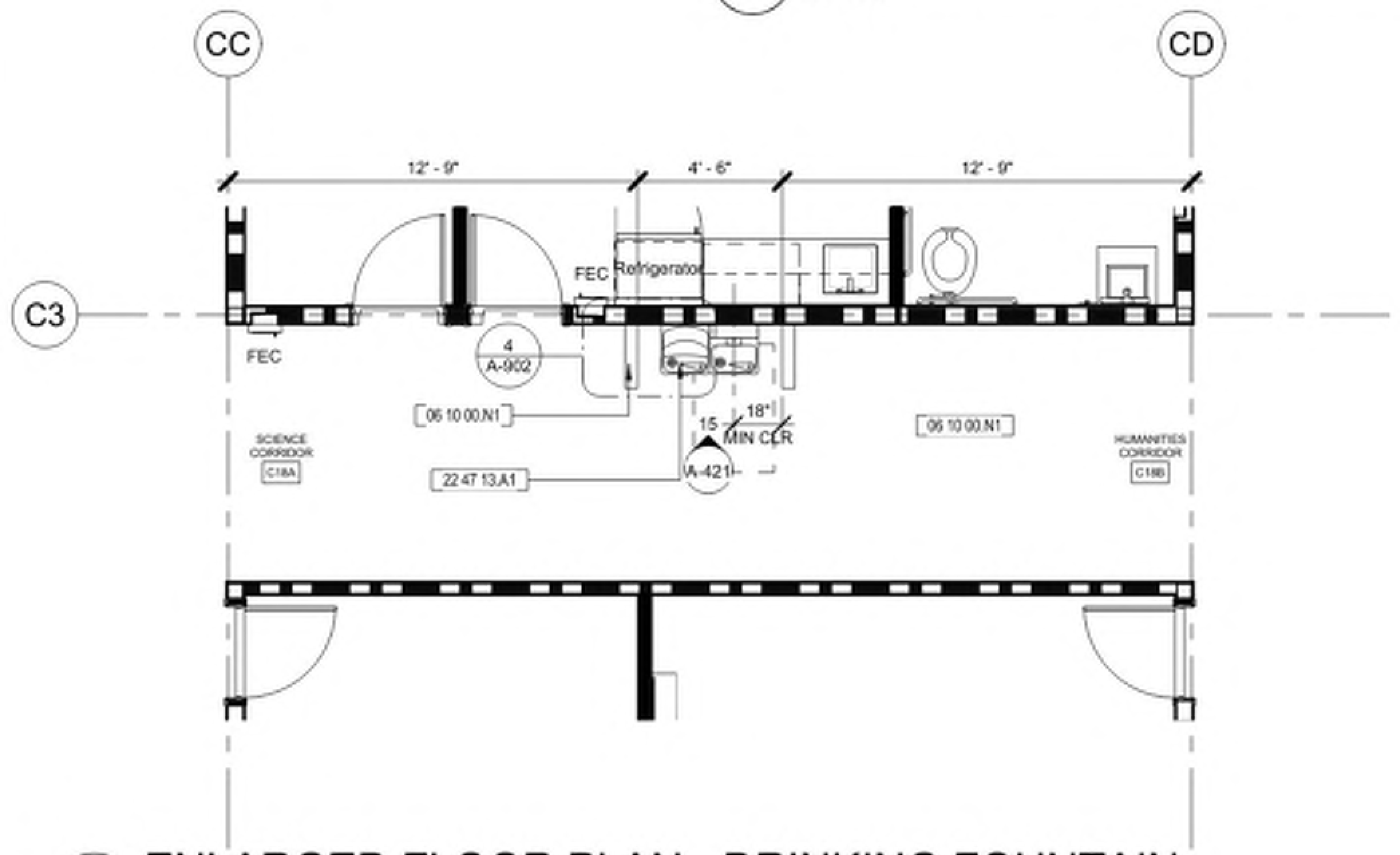
9/27/2022 9:27:02 AM



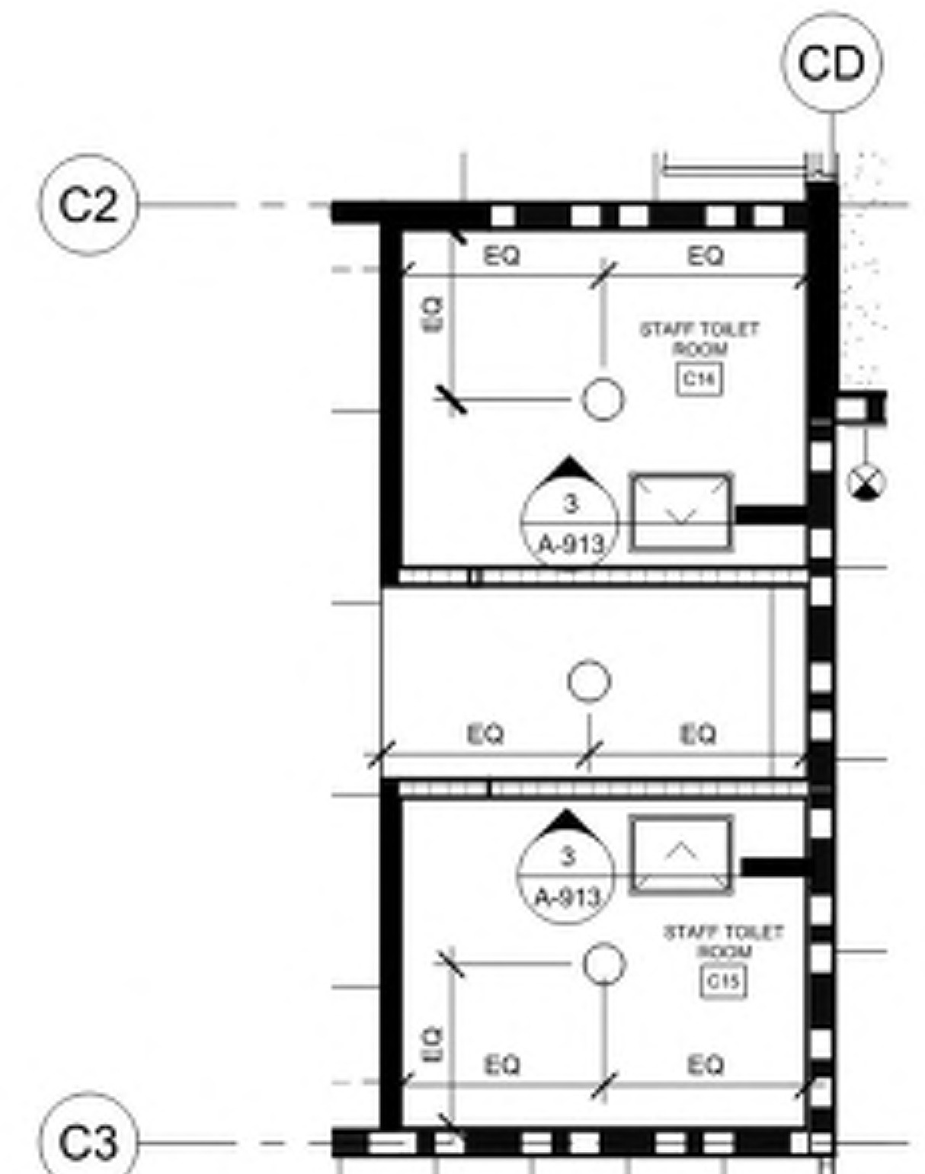
2 ENLARGED DEMO RCP - TOILET RMS C14 & C15
1/4" = 1'-0"



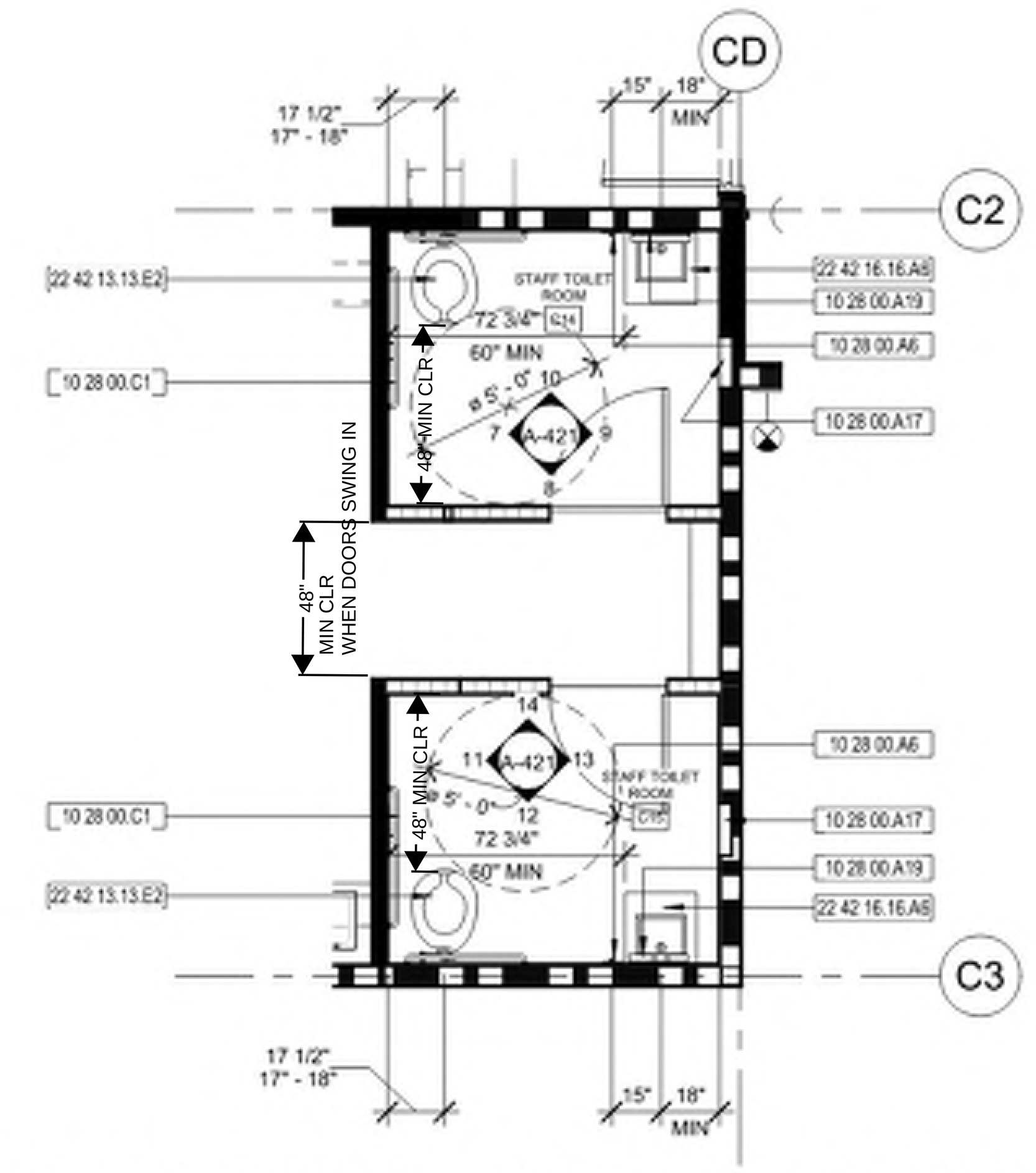
1 ENLARGED DEMO FLOOR PLAN - TOILET RMS C14 & C15
1/4" = 1'-0"



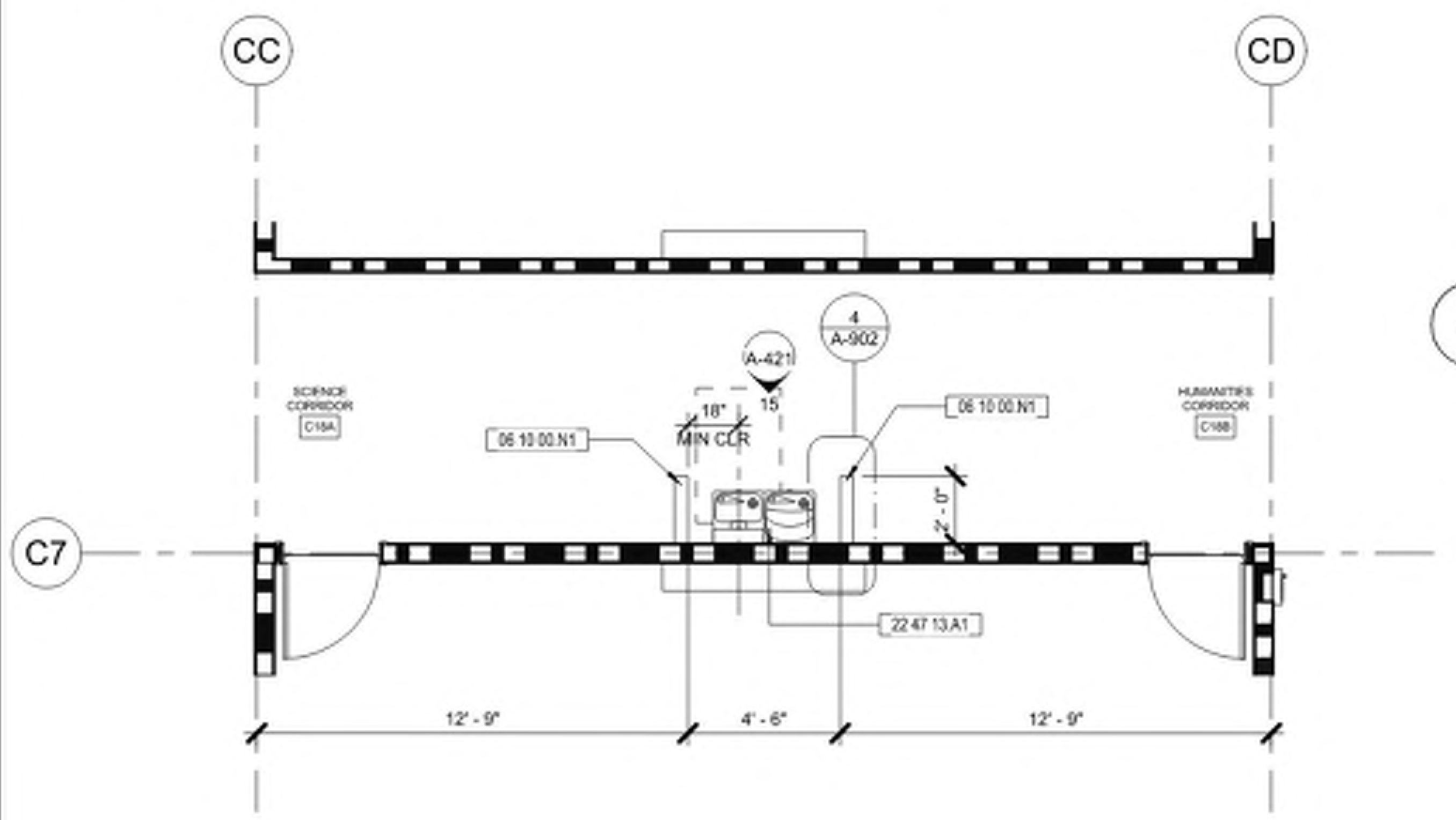
5 ENLARGED FLOOR PLAN - DRINKING FOUNTAIN
1/4" = 1'-0"



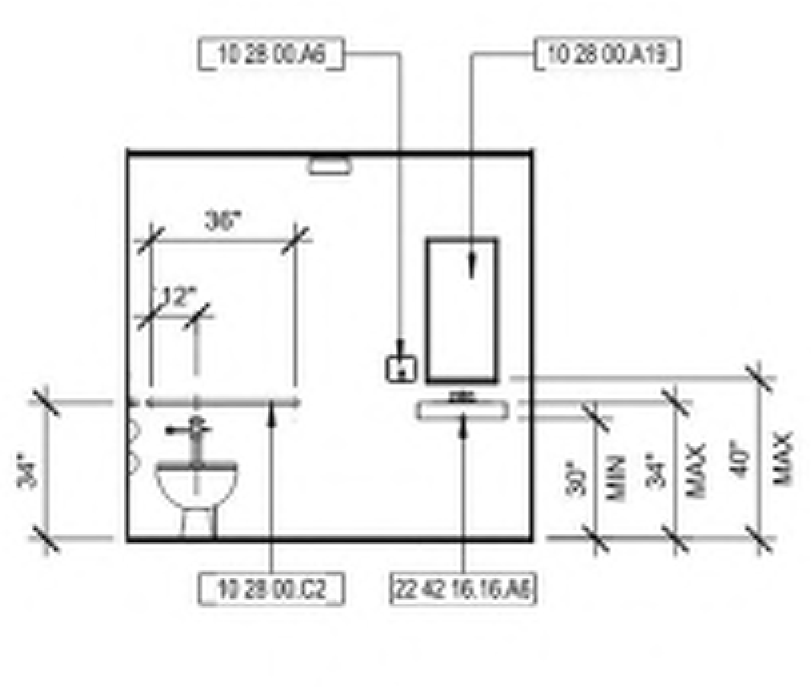
4 ENLARGED RCP - TOILET RMS C14 & C15
1/4" = 1'-0"



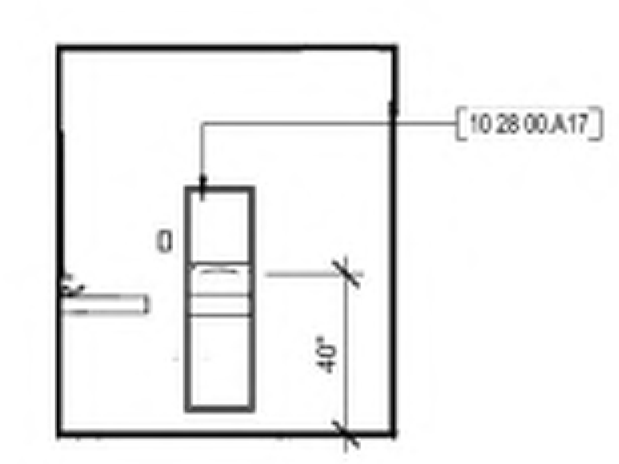
3 ENLARGED FLOOR PLAN - TOILET RMS C14 & C15
1/4" = 1'-0"



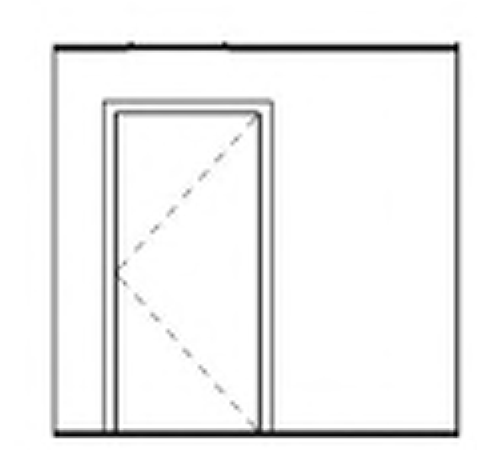
6 ENLARGED FLOOR PLAN - DRINKING FOUNTAIN
1/4" = 1'-0"



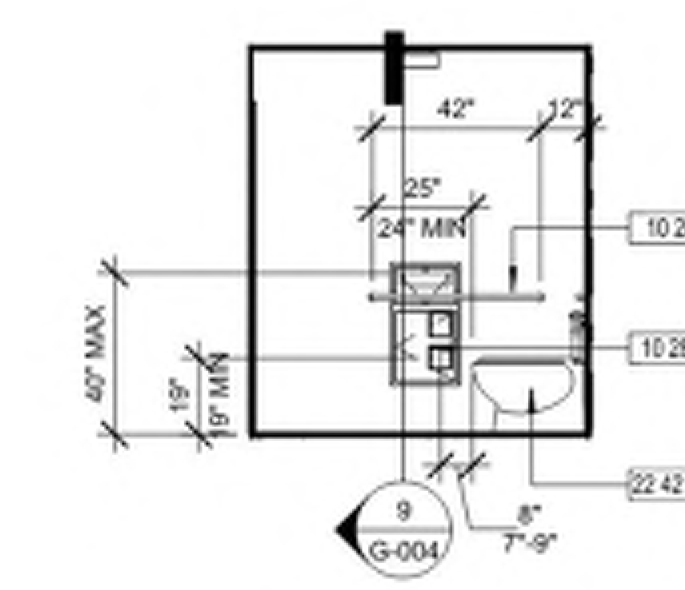
10 C14 - WEST
1/4" = 1'-0"



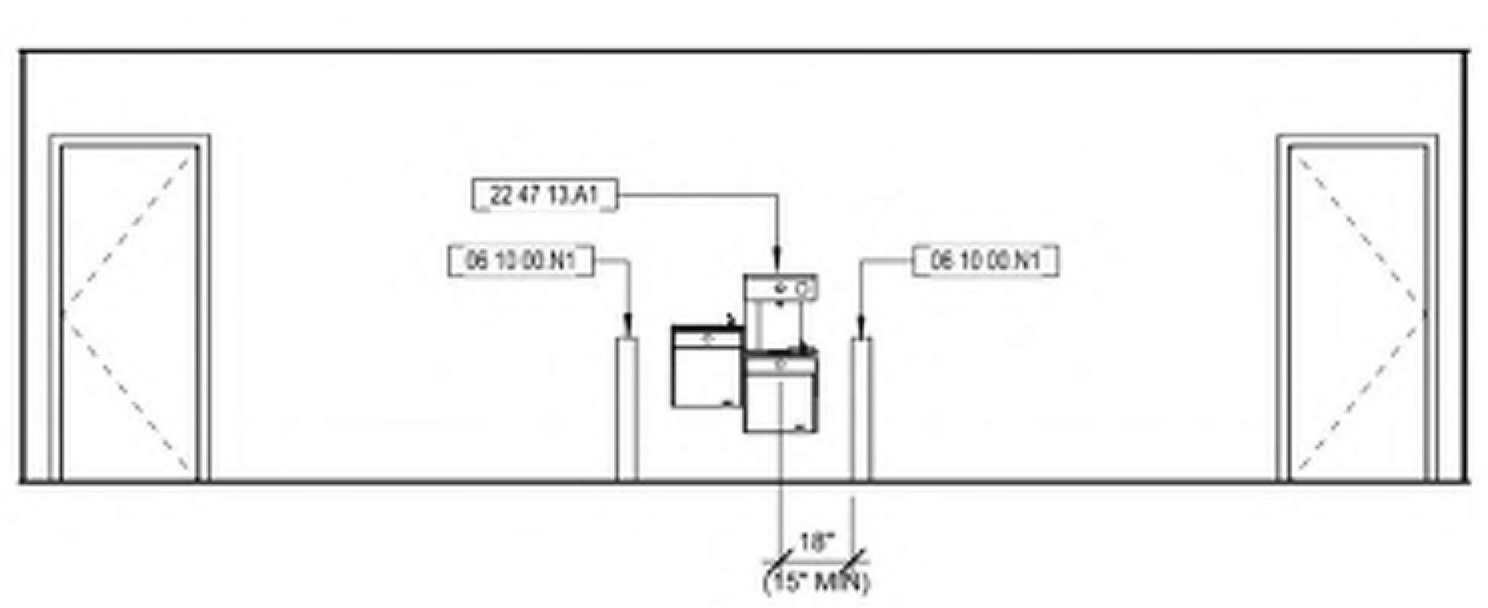
9 C14 - NORTH
1/4" = 1'-0"



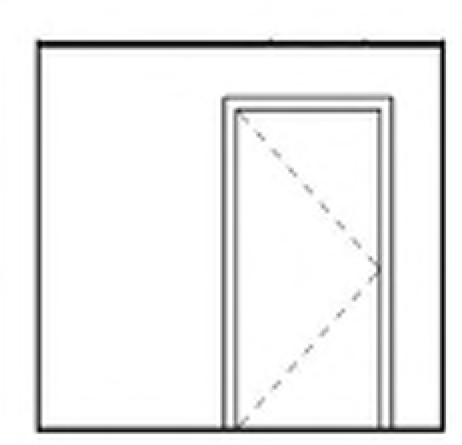
8 C14 - EAST
1/4" = 1'-0"



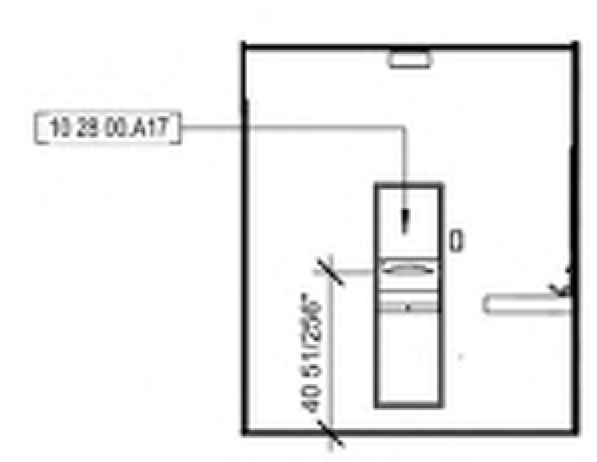
7 C14 - SOUTH
1/4" = 1'-0"



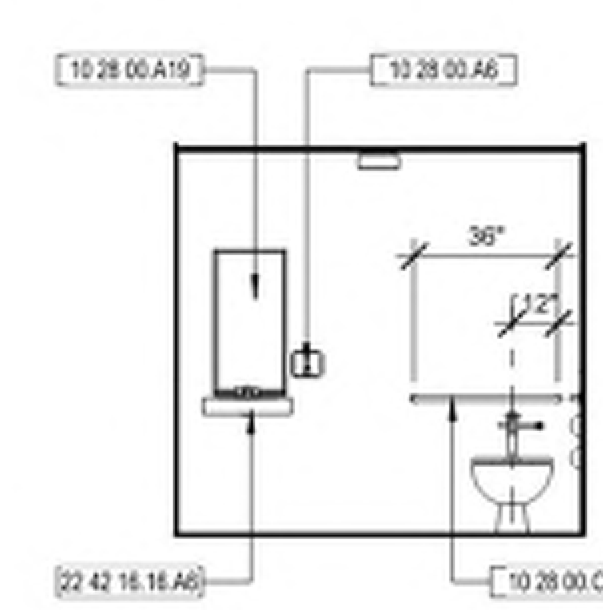
15 C18 - EAST / WEST
1/4" = 1'-0"



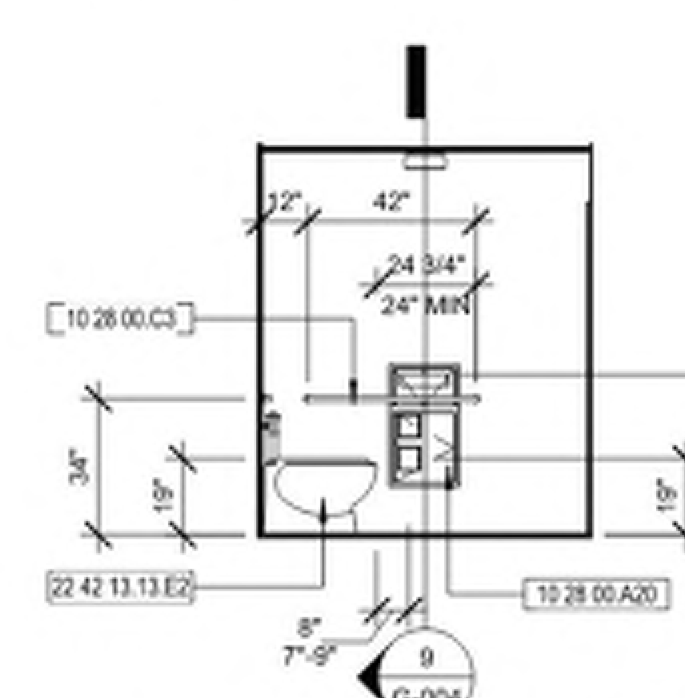
14 C15 - WEST
1/4" = 1'-0"



13 C15 - NORTH
1/4" = 1'-0"



12 C15 - EAST
1/4" = 1'-0"



11 C15 - SOUTH
1/4" = 1'-0"

GENERAL NOTES

RESTROOM

1. SEE ACCESSIBLE DEATAILS SHEET FOR ALL RESTROOM FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
2. PROVIDE BACKING FOR ALL GRAB BARS.
3. ALL GRAB BARS MUST COMPLY WITH CLEARENCE REQUIREMENT PER C.B.C. 11B-609.3. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE A MINIMUM OF 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE A MINIMUM OF 1 1/2".
4. AT ACCESSIBLE RESTROOM STALLS, 34" MINIMUM CLEAR AT DOORS WHEN OPENED AT 90 DEGREES.
5. TOE CLEARENCE; AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARENCE OF 9" DEEP MINIMUM ABOVE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND COMPARTMENT SIDE FACE OF PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. PARTITION COMPONANTS AT TOE CLEARENCE FOR CHILDRENS USE SHALL PROVIDE A TOE CLEARENCE OF 12" MINIMUM ABOVE FINISH FLOOR, PER C.B.C. 11B-604.8.1.4.

CASEWORK

1. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONANTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION..
2. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL OUTLETS.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. PROVIDE BACKSPLASH FOR ALL COUNTERTOPS.
5. ALL CASEWORK; REFER TO NORTH AMERICAN ARCHITECTURAL WOODWORK SERIES CABINET DESIGN SERIES.

KEYNOTES

02 41 19.C11	CEILING TO BE REMOVED
02 41 19.C31	REMOVE MASONITE WALL MATERIAL, PROTECT EXISTING GYPSUM BOARD IN PLACE
02 41 19.C47	REMOVE PLUMBING FIXTURE AND ASSEMBLY
02 41 19.C51	REMOVE WALL MOUNTED ACCESSORIES THROUGHOUT
02 41 19.C58	REMOVE CONCRETE WALL CURB TO FLOOR LEVEL
06 10 00.N1	PONY WALL - 2X4 STUDS @ 16" OC W/ 5/8" WB ON TOP, SIDES, & END
10 28 00.A6	SOAP DISPENSER-PRUDENTIAL MODEL 9971
10 28 00.A17	PAPER TOWEL DISPENSER/WASTE RECEPTACLE - SEMI RECESSED-BOBICK B-3942
10 28 00.A19	MIRROR WITH SHELF-BOBRICK B-292 1836
10 28 00.A20	RECESSED TOILET TISSUE - SEAT COVER DISPENSER-BOBRICK B-34745
10 28 00.C2	36" GRAB BAR-BOBRICK B-6806X36
10 28 00.C3	42" GRAB BAR-BOBRICK B-6806X42
22 42 13.13.E2	FLOOR MOUNT TOILET
22 42 16.16.A6	WALL MOUNT SINK, REFER TO 3H/G-004 FOR MOUNTING
22 47 13.A1	WALL MOUNTED DRINKING FOUNTAIN REFER TO 3/A-903

ACCESSIBLE TOILET NOTES

ACCESSIBLE TOILET COMPARTMENTS:

1. WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH **CBC SECTION 11B-604.8.1**.
2. TOE CLEARENCE FOR AT LEAST ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH **CBC SECTION AND FIGURE 11B-604.8.1.4**. TOE CLEARENCE SHALL BE 9" HIGH INIMUM ABOVE THE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. IT SHALL BE 12" HIGH MINIMUM ABOVE FINISH FLOOR FOR CHILDREN'S USE. PARTITION COMPONENTS AT TOE CLEARENCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. TOE CLEARENCE AT SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66" WIDE.
3. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE PROVIDED WHERE THERE ARE SIX OR MORE TOILET COMPARTMENTS, OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES. SUCH COMPARTMENTS SHALL BE PROVIDED IN THE SAME QUANTITY AS WHEELCHAIR ACCESSIBLE COMPARTMENTS PER **CBC SECTION 11B-213.3.1** AND SHALL COMPLY WITH **CBC SECTION 11B-604.8.2**.
4. DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENTS SHALL BE SELF-CLOSING AND COMPLY WITH **CBC SECTION 11B-404** EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF AN AMBULATORY COMPARTMENT DOOR, CLEARENCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44" MINIMUM. **CBC SECTION 11B-604.8.2.**
5. A DOOR PULL COMPLYING WITH **CBC SECTION 11B-404.2.7** SHALL BE PLACED ON BOTH SIDES OF THE ACCESSIBLE COMPARTMENT DOOR NEAR THE LATCH.
6. AMBULATORY ACCESSIBLE TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARENCE REQUIRED FOR ANY FIXTURE OR INTO MINIMUM REQUIRED COMPARTMENT AREA. **CBC SECTION 11B-604.8.2.2.**
7. ELEMENTS OF SANITARY FACILITIES SHALL BE MOUNTED AT LOCATIONS IN COMPLIANCE WITH **CBC SECTIONS 11B-602 THROUGH 11B-612.**
8. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY **CBC SECTION11B-609**. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. THE SPACE AROUND THE GRAB BARS SHALL BE AS FOLLOWS:
   - 1 1/2" BETWEEN THE GRAB BAR AND THE WALL
   - 1 1/2" MINIMUM BETWEEN THE GRAB BAR AND PROJECTION OBJECTS BELOW AND AT THE ENDS
   - 12" MINIMUM BETWEEN THE GRAB BAR AND PRJECTION OBJECTS ABOVE.

IDENTIFICATION STAMP
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APP: 04-121018 INC:
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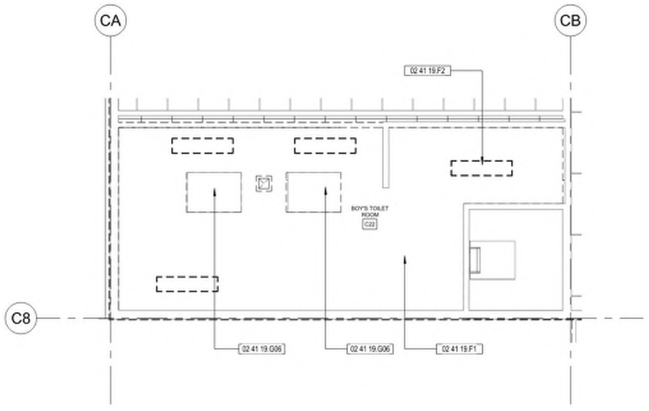
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

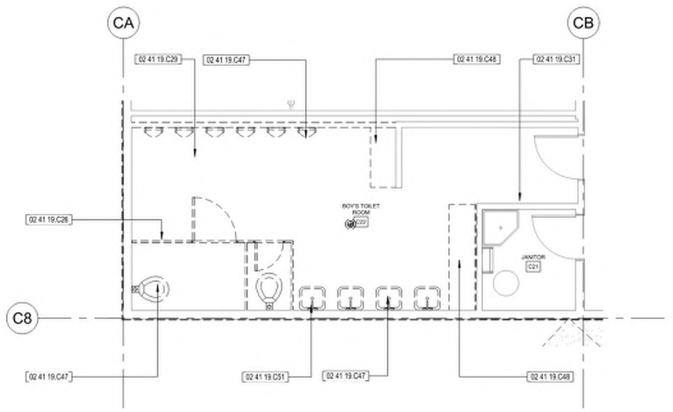
TOILET RESTROOM PLANS & ELEVATIONS - BLDG C

A-421

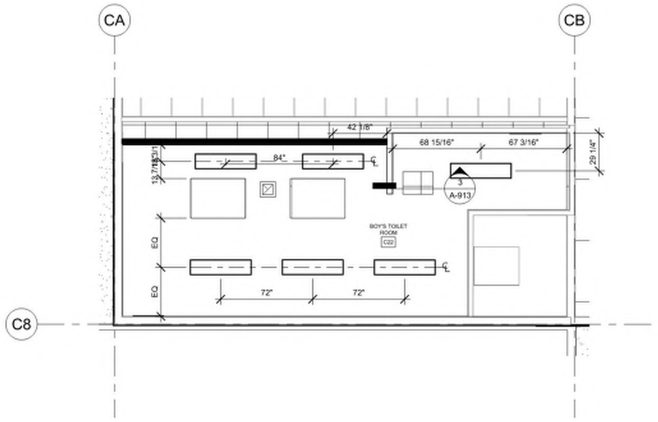
10/10/2022 1:56:59 PM



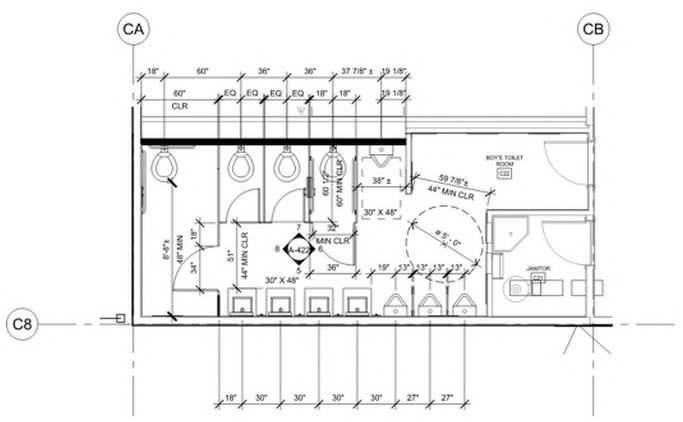
2 ENLGARGED DEMO RCP - BOY'S TOILET RM C22
1/4" = 1'-0"



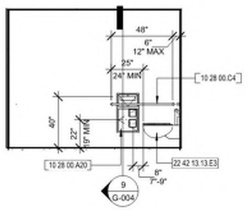
1 ENLARGED DEMO FLOOR PLAN - BOY'S TOILET RM C22
1/4" = 1'-0"



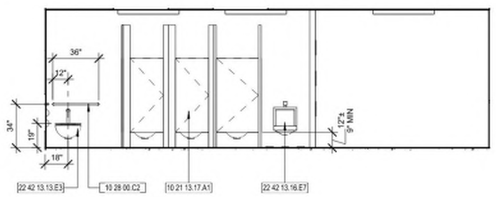
4 ENLARGED RCP - BOY'S TOILET RM C22
1/4" = 1'-0"



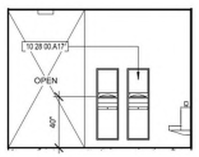
3 ENLARGED FLOOR PLAN - BOY'S TOILET RM C22
1/4" = 1'-0"



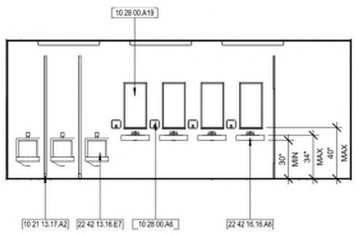
8 C22 - SOUTH
1/4" = 1'-0"



7 C22 - WEST
1/4" = 1'-0"



6 C22 - NORTH
1/4" = 1'-0"



5 C22 - EAST
1/4" = 1'-0"

GENERAL NOTES

RESTROOM

1. SEE ACCESSIBLE DEATAILS SHEET FOR ALL RESTROOM FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
2. PROVIDE BACKING FOR ALL GRAB BARS.
3. ALL GRAB BARS MUST COMPLY WITH CLEARENCE REQUIREMENT PER C.B.C. 11B-609.3. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE A MINIMUM OF 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE A MINIMUM OF 1 1/2".
4. AT ACCESSIBLE RESTROOM STALLS, 34" MINIMUM CLEAR AT DOORS WHEN OPENED AT 90 DEGREES.
5. TOE CLEARENCE; AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARENCE OF 9" DEEP MINIMUM ABOVE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND COMPARTMENT SIDE FACE OF PARTITION. EXCLUSIVE OF PARTITION SUPPORT MEMBERS. PARTITION COMPONANTS AT TOE CLEARENCE FOR CHILDRENS USE SHALL PROVIDE A TOE CLEARENCE OF 12" MINIMUM ABOVE FINISH FLOOR, PER C.B.C. 11B-604.8.1.4.

CASEWORK

1. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONANTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION..
2. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL OUTLETS.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. PROVIDE BACKSPLASH FOR ALL COUNTERTOPS.
5. ALL CASEWORK; REFER TO NORTH AMERICAN ARCHITECTURAL WOODWORK SERIES CABINET DESIGN SERIES.

KEYNOTES

02 41 19.C26	TOILET PARTITION TO BE REMOVED
02 41 19.C29	CERAMIC FLOOR TILE TO BE REMOVED
02 41 19.C31	REMOVE MASONITE WALL MATERIAL, PROTECT EXISTING GYPSUM BOARD IN PLACE
02 41 19.C47	REMOVE PLUMBING FIXTURE AND ASSEMBLY
02 41 19.C48	REMOVE COUNTERTOP
02 41 19.C51	REMOVE WALL MOUNTED ACCESSORIES THROUGHOUT
02 41 19.F1	REMOVE GYPSUM BOARD CEILING PROTECT CEILING JOISTS IN PLACE
02 41 19.F2	REMOVE EXISTING SURFACE MOUNTED LIGHT FIXTURES
02 41 19.G06	EXISTING SKYLIGHT TO REMAIN
10 21 13.17.A1	TOILET PARTITION-BOBRICK 1540 SERIES CLASSIC SERIES HPL, MOUNTING REFER TO 2/A-903
10 21 13.17.A2	URINAL SCREEN-BOBRICK 1545 WALL HUNG
10 28 00.A6	SOAP DISPENSER-PRUDENTIAL MODEL 9971
10 28 00.A17	PAPER TOWEL DISPENSER/WASTE RECEPTACLE - SEMI RECESSED-BOBICK B-3942
10 28 00.A19	MIRROR WITH SHELF-BOBRICK B-292 1836
10 28 00.A20	RECESSED TOILET TISSUE - SEAT COVER DISPENSER-BOBRICK B-34745
10 28 00.C2	36" GRAB BAR-BOBRICK B-6806X36
10 28 00.C4	48" GRAB BAR-BOBRICK B-6806X48
22 42 13.13.E3	WALL MOUNT TOILET
22 42 13.16.E7	WALL MOUNT URINAL
22 42 16.16.A6	WALL MOUNT SINK, REFER TO 3/HG-004 FOR MOUNTING

ACCESSIBLE TOILET NOTES

ACCESSIBLE TOILET COMPARTMENTS:

1. WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH **CBC SECTION 11B-604.8.1**.
2. TOE CLEARENCE FOR AT LEAST ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH **CBC SECTION AND FIGURE 11B-604.8.1.4**. TOE CLEARENCE SHALL BE 9" HIGH NIMUM ABOVE THE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. IT SHALL BE 12" HIGH MINIMUM ABOVE FINISH FLOOR FOR CHILDREN'S USE. PARTITION COMPONENTS AT TOE CLEARENCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. TOE CLEARENCE AT SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66" WIDE.
3. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE PROVIDED WHERE THERE ARE SIX OR MORE TOILET COMPARTMENTS, OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES. SUCH COMPARTMENTS SHALL BE PROVIDED IN THE SAME QUANTITY AS WHEELCHAIR ACCESSIBLE COMPARTMENTS PER **CBC SECTION 11B-213.3.1** AND SHALL COMPLY WITH **CBC SECTION 11B-604.8.2**.
4. DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENTS SHALL BE SELF-CLOSING AND COMPLY WITH **CBC SECTION 11B-404** EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF AN AMBULATORY COMPARTMENT DOOR, CLEARENCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44" MINIMUM. **CBC SECTION 11B-604.8.2**.
5. A DOOR PULL COMPLYING WITH **CBC SECTION 11B-404.2.7** SHALL BE PLACED ON BOTH SIDES OF THE ACCESSIBLE COMPARTMENT DOOR NEAR THE LATCH.
6. AMBULATORY ACCESSIBLE TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARENCE REQUIRED FOR ANY FIXTURE OR INTO MINIMUM REQUIRED COMPARTMENT AREA. **CBC SECTION 11B-604.8.2.2.**
7. ELEMENTS OF SANITARY FACILITIES SHALL BE MOUNTED AT LOCATIONS IN COMPLIANCE WITH **CBC SECTIONS 11B-602 THROUGH 11B-612.**
8. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY **CBC SECTION11B-609**. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. THE SPACE AROUND THE GRAB BARS SHALL BE AS FOLLOWS:
   - 1 1/2" BETWEEN THE GRAB BAR AND THE WALL
   - 1 1/2" MINIMUM BETWEEN THE GRAB BAR AND PROJECTION OBJECTS BELOW AND AT THE ENDS
   - 12" MINIMUM BETWEEN THE GRAB BAR AND PROJECTION OBJECTS ABOVE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT
AUDREY A. STRATTON
Signature
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

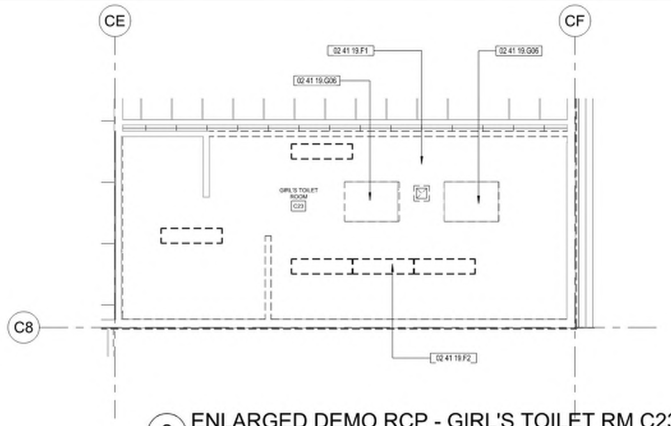
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

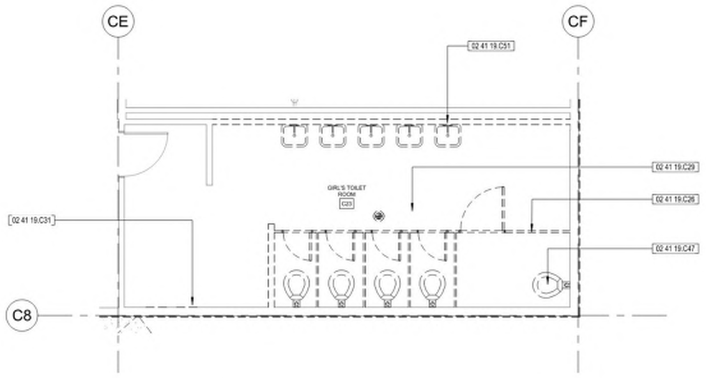
TOILET RESTROOM PLANS & ELEVATIONS - BLDG C

A-422

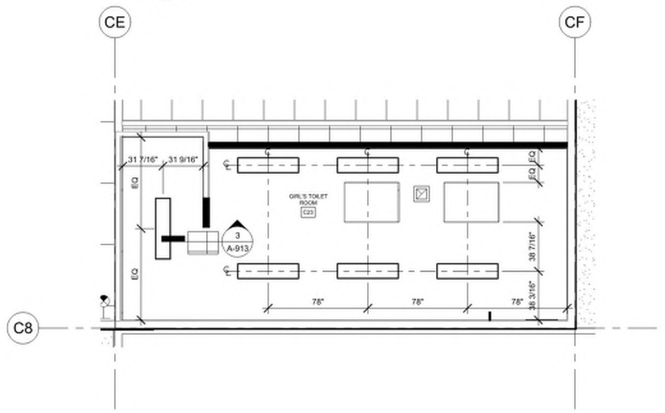
10/10/2022 1:57:08 PM



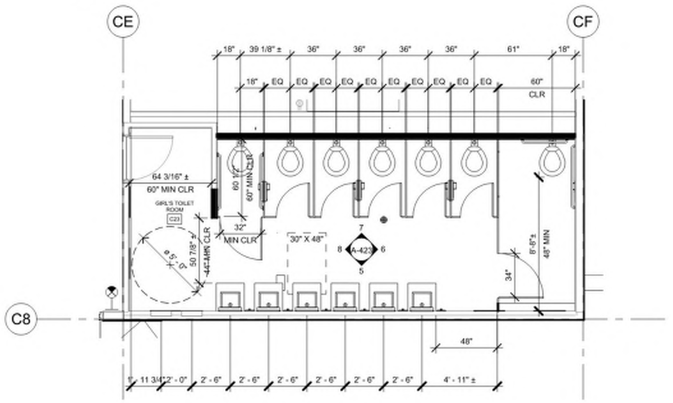
2 ENLARGED DEMO RCP - GIRL'S TOILET RM C23
1/4" = 1'-0"



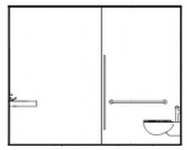
1 ENLARGED DEMO FLOOR PLAN - GIRL'S TOILET RM C23
1/4" = 1'-0"



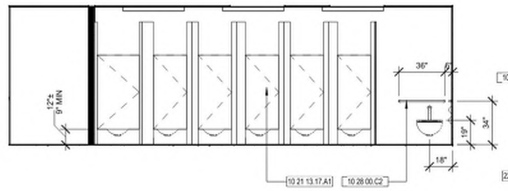
4 ENLARGED RCP - GIRL'S TOILET RM C23
1/4" = 1'-0"



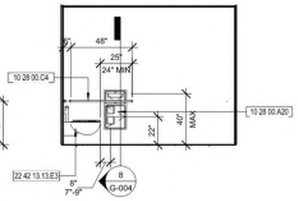
3 ENLARGED FLOOR PLAN - GIRL'S TOILET RM C23
1/4" = 1'-0"



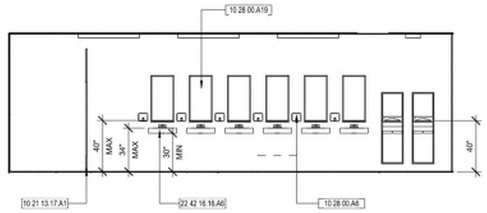
8 C23 - SOUTH
1/4" = 1'-0"



7 C23 - WEST
1/4" = 1'-0"



6 C23 - NORTH
1/4" = 1'-0"



5 C23 - EAST
1/4" = 1'-0"

GENERAL NOTES

RESTROOM

1. SEE ACCESSIBLE DEATAILS SHEET FOR ALL RESTROOM FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
2. PROVIDE BACKING FOR ALL GRAB BARS.
3. ALL GRAB BARS MUST COMPLY WITH CLEARENCE REQUIREMENT PER C.B.C. 11B-609.3. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE A MINIMUM OF 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE A MINIMUM OF 1 1/2".
4. AT ACCESSIBLE RESTROOM STALLS, 34" MINIMUM CLEAR AT DOORS WHEN OPENED AT 90 DEGREES.
5. TOE CLEARENCE; AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARENCE OF 9" DEEP MINIMUM ABOVE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND COMPARTMENT SIDE FACE OF PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. PARTITION COMPONANTS AT TOE CLEARENCE FOR CHILDRENS USE SHALL PROVIDE A TOE CLEARENCE OF 12" MINIMUM ABOVE FINISH FLOOR, PER C.B.C. 11B-604.8.1.4.

CASEWORK

1. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONANTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION..
2. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL OUTLETS.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. PROVIDE BACKSPLASH FOR ALL COUNTERTOPS.
5. ALL CASEWORK; REFER TO NORTH AMERICAN ARCHITECTURAL WOODWORK SERIES CABINET DESIGN SERIES.

KEYNOTES

02 41 19.C26	TOILET PARTITION TO BE REMOVED
02 41 19.C29	CERAMIC FLOOR TILE TO BE REMOVED
02 41 19.C31	REMOVE MASONITE WALL MATERIAL. PROTECT EXISTING GYPSUM BOARD IN PLACE
02 41 19.C47	REMOVE PLUMBING FIXTURE AND ASSEMBLY
02 41 19.C51	REMOVE WALL MOUNTED ACCESSORIES THROUGHOUT
02 41 19.F1	REMOVE GYPSUM BOARD CEILING PROTECT CEILING JOISTS IN PLACE
02 41 19.F2	REMOVE EXISTING SURFACE MOUNTED LIGHT FIXTURES
02 41 19.G06	EXISTING SKYLIGHT TO REMAIN
10 21 13.17.A1	TOILET PARTITION-BOBRICK 1040 SERIES CLASSIC SERIES HPL, MOUNTING REFER TO 2/A-903
10 28 00.A6	SOAP DISPENSER-PRUDENTIAL MODEL 9971
10 28 00.A19	MIRROR WITH SHELF-BOBRICK B-292 1836
10 28 00.A20	RECESSED TOILET TISSUE - SEAT COVER DISPENSER-BOBRICK B-34745
10 28 00.C2	36" GRAB BAR-BOBRICK B-6806X36
10 28 00.C4	48" GRAB BAR-BOBRICK B-6806X48
22 42 13.13.E3	WALL MOUNT TOILET
22 42 16.16.A6	WALL MOUNT SINK, REFER TO 3/H/G-004 FOR MOUNTING

ACCESSIBLE TOILET NOTES

ACCESSIBLE TOILET COMPARTMENTS:

1. WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH **CBC SECTION 11B-604.8.1**.
2. TOE CLEARENCE FOR AT LEAST ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH **CBC SECTION AND FIGURE 11B-604.8.1.4**. TOE CLEARENCE SHALL BE 9" HIGH INIMUM ABOVE THE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. IT SHALL BE 12" HIGH MINIMUM ABOVE FINISH FLOOR FOR CHILDREN'S USE. PARTITION COMPONENTS AT TOE CLEARENCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. TOE CLEARENCE AT SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 60" WIDE.
3. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE PROVIDED WHERE THERE ARE SIX OR MORE TOILET COMPARTMENTS, OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES. SUCH COMPARTMENTS SHALL BE PROVIDED IN THE SAME QUANTITY AS WHEELCHAIR ACCESSIBLE COMPARTMENTS PER **CBC SECTION 11B-213.3.1** AND SHALL COMPLY WITH **CBC SECTION 11B-604.8.2**.
4. DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENTS SHALL BE SELF-CLOSING AND COMPLY WITH **CBC SECTION 11B-404** EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF AN AMBULATORY COMPARTMENT DOOR, CLEARENCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44" MINIMUM. **CBC SECTION 11B-604.8.2**.
5. A DOOR PULL COMPLYING WITH **CBC SECTION 11B-404.2.7** SHALL BE PLACED ON BOTH SIDES OF THE ACCESSIBLE COMPARTMENT DOOR NEAR THE LATCH.
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DAVY ARCHITECTURE
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LICENSED ARCHITECT
JEFFREY V. STRATTON
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

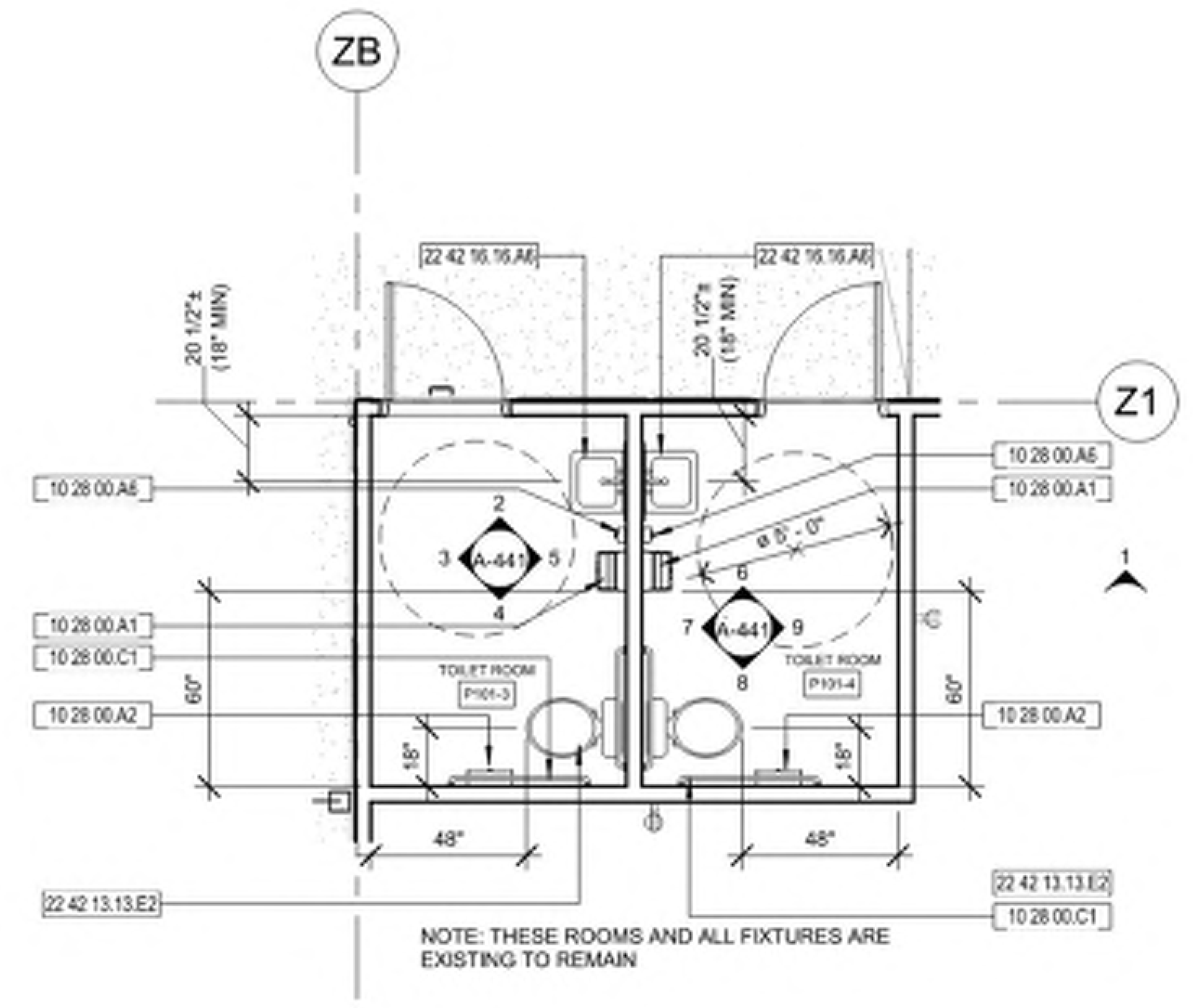
MARK	DATE	DESCRIPTION
–	04.29.2022	DSA SUBMITTAL
–	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

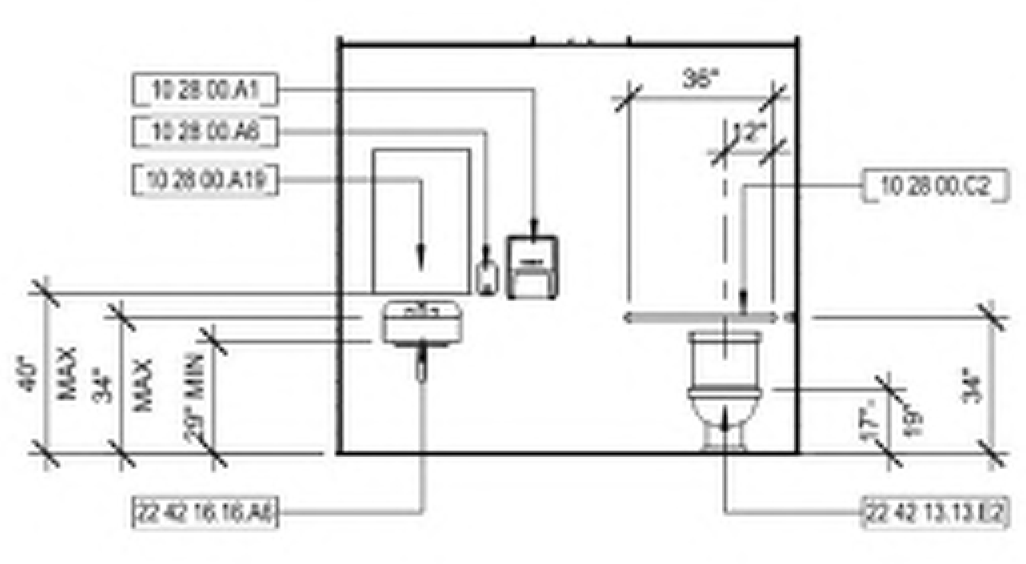
TOILET RESTROOM PLANS & ELEVATIONS - BLDG C

A-423

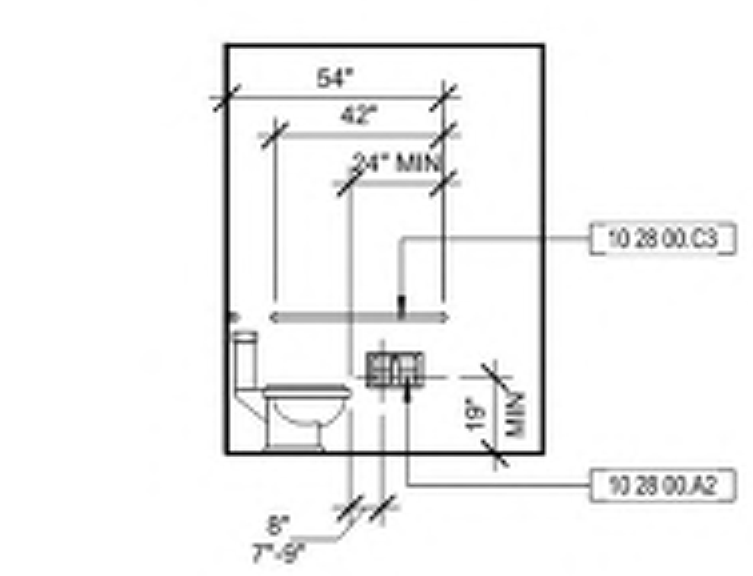
10/19/2022 1:57:17 PM



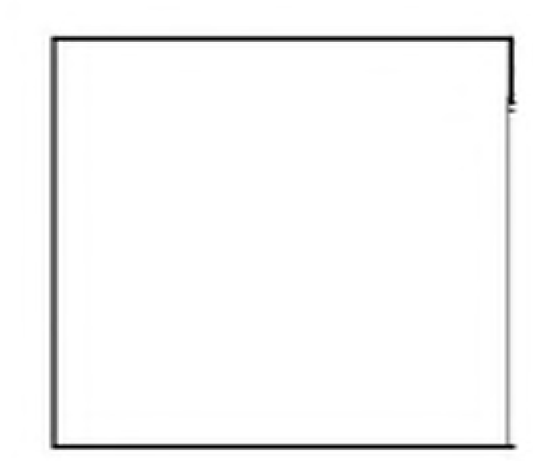
1 ENLARGED FLOOR PLAN - TOILET ROOMS P101-3 & P101-4
1/4" = 1'-0"



5 P101-3 - NORTH
1/4" = 1'-0"

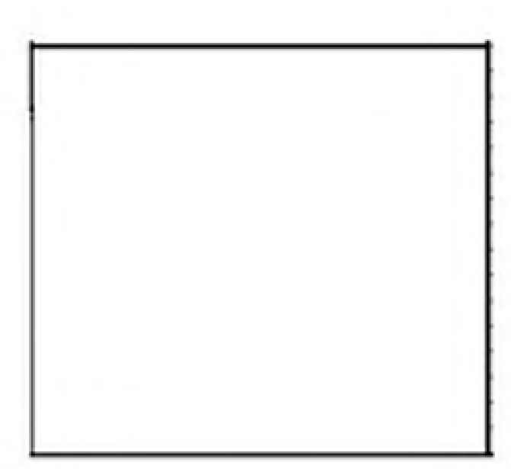


4 P101-3 - EAST
1/4" = 1'-0"

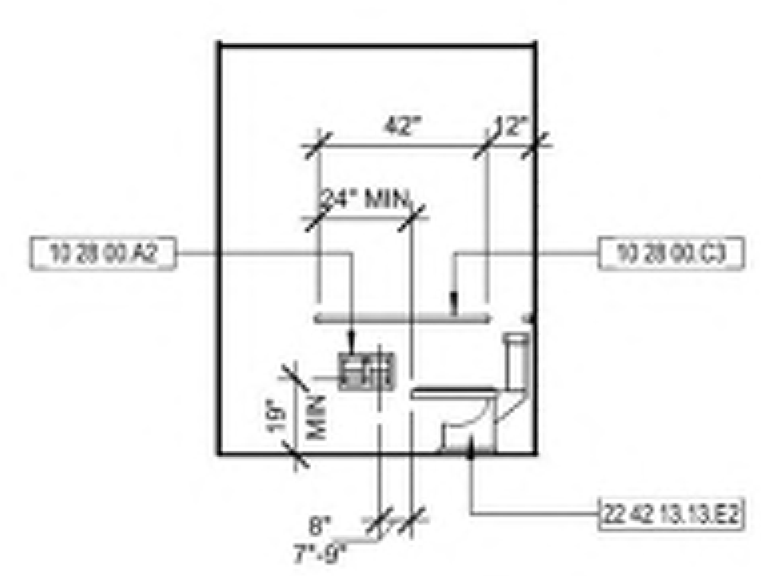


3 P101-3 - SOUTH
1/4" = 1'-0"

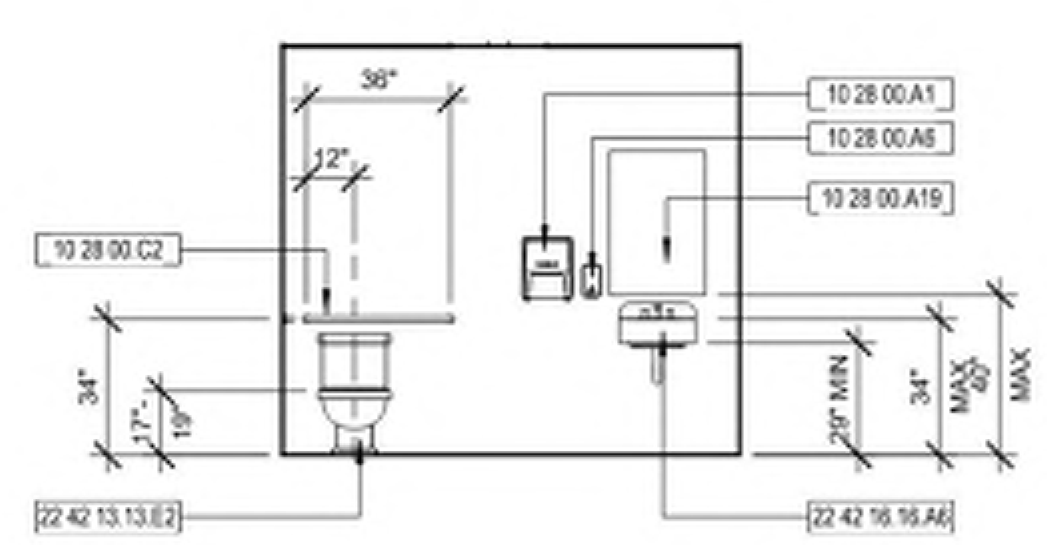
2 P101-3 - WEST
1/4" = 1'-0"



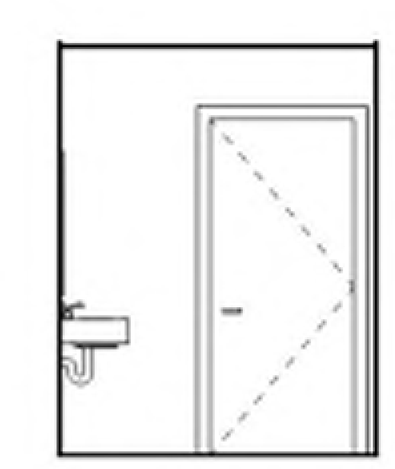
9 P101-4 - NORTH
1/4" = 1'-0"



8 P101-4 - EAST
1/4" = 1'-0"



7 P101-4 - SOUTH
1/4" = 1'-0"



6 P101-4 - WEST
1/4" = 1'-0"

GENERAL NOTES

RESTROOM

1. SEE ACCESSIBLE DEATAILS SHEET FOR ALL RESTROOM FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
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3. ALL GRAB BARS MUST COMPLY WITH CLEARENCE REQUIREMENT PER C.B.C. 11B-609.3. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE A MINIMUM OF 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE A MINIMUM OF 1 1/2".
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CASEWORK

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KEYNOTES

10 28 00.A1	PAPER TOWEL DISPENSER
10 28 00.A2	TOILET TISSUE DISPENSER
10 28 00.A6	SOAP DISPENSER-PRUDENTIAL MODEL 9971
10 28 00.A19	MIRROR WITH SHELF-BOBRICK B-292 1836
10 28 00.C1	GRAB BAR, REFER TO 11&12/A-903
10 28 00.C2	36" GRAB BAR-BOBRICK B-6806X36
10 28 00.C3	42" GRAB BAR-BOBRICK B-6806X42
22 42 13.13.E2	FLOOR MOUNT TOILET
22 42 16.16.A6	WALL MOUNT SINK, REFER TO 3H/G-004 FOR MOUNTING

ACCESSIBLE TOILET NOTES

ACCESSIBLE TOILET COMPARTMENTS:

1. WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH **CBC SECTION 11B-604.8.1**.
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SDVOSB

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

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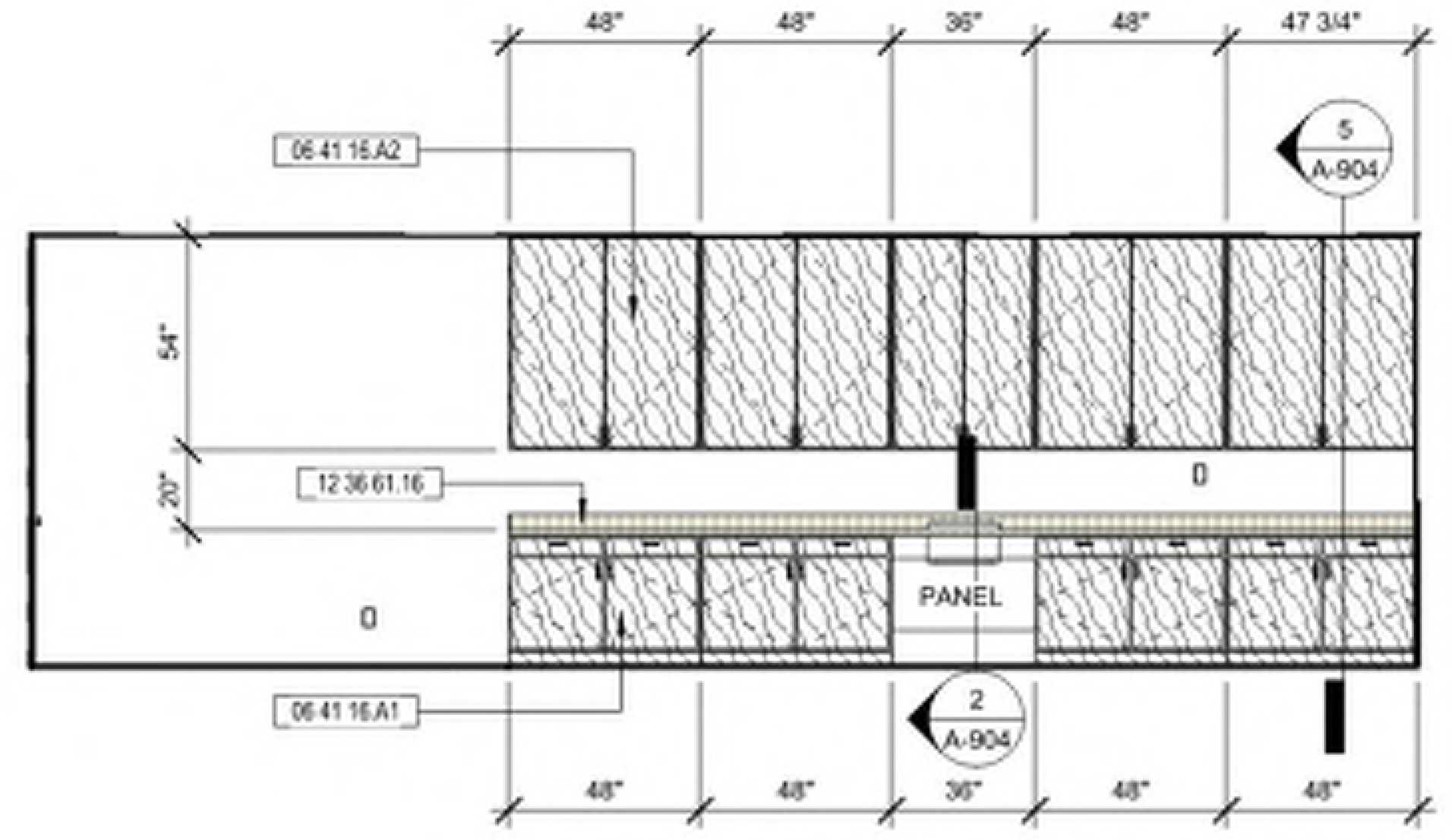
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	Checker

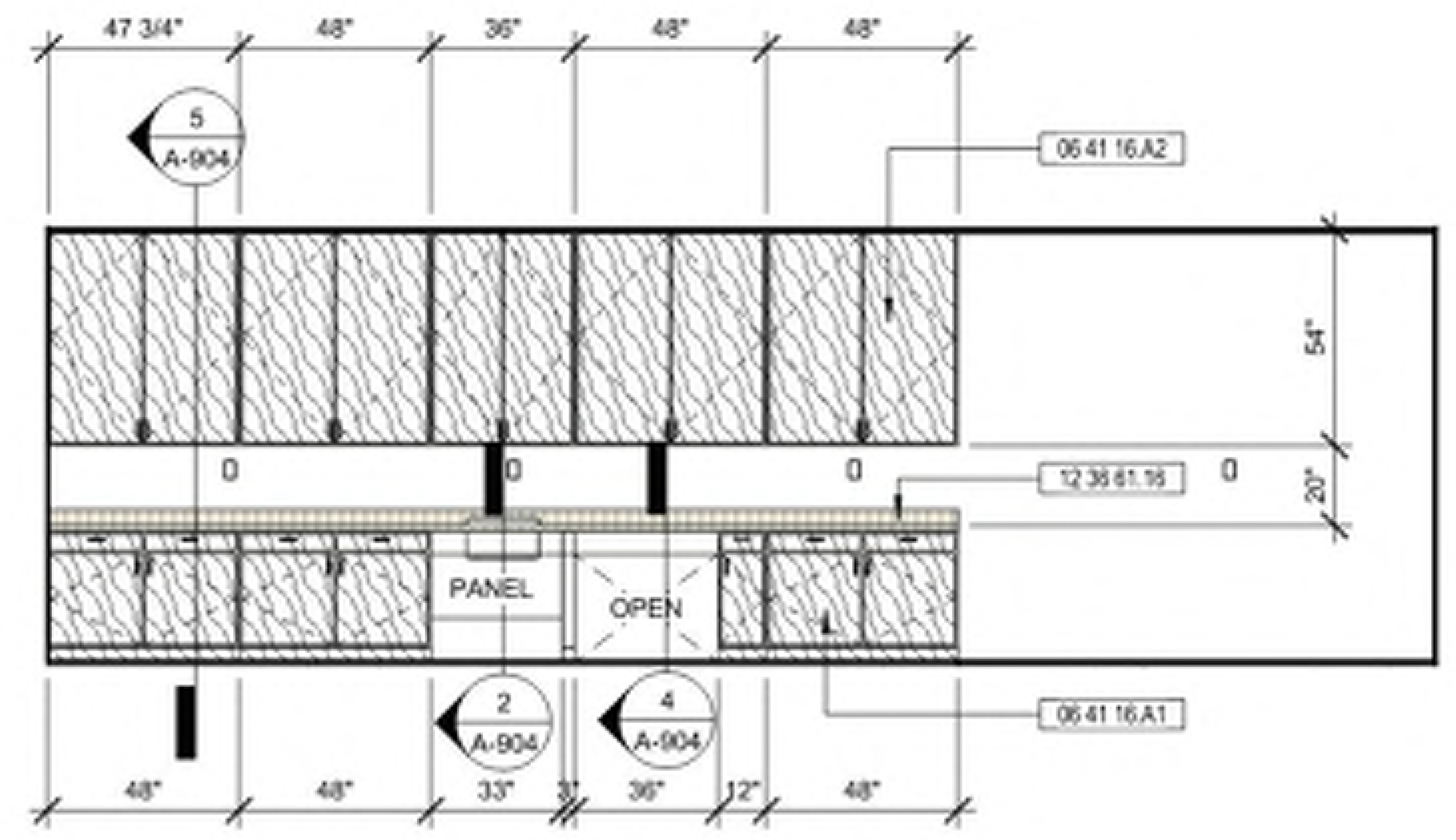
(E) TOILET RESTROOM PLAN & ELEVATIONS - BLDG P101

A-441

9/27/2022 10:45:53 AM



2 CLASSROOM C01 - EAST
1/4" = 1'-0"



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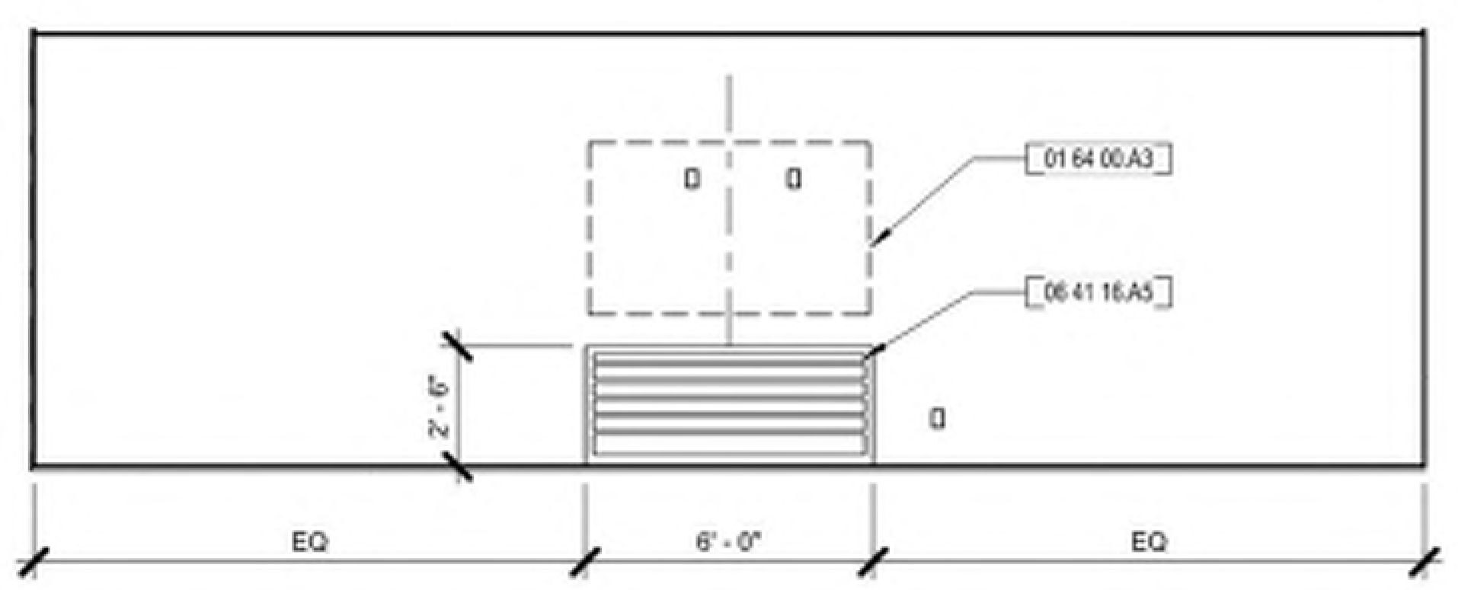
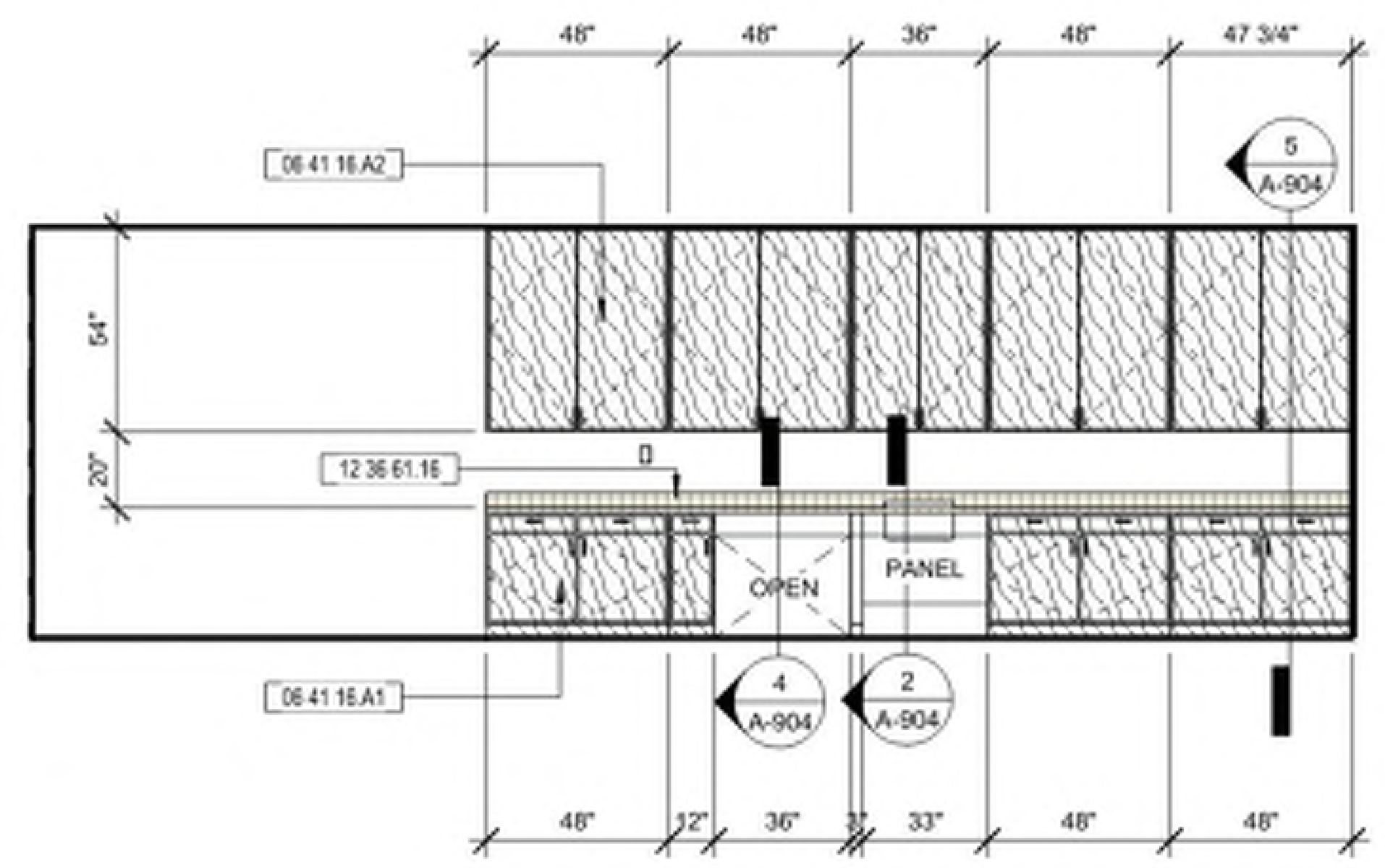
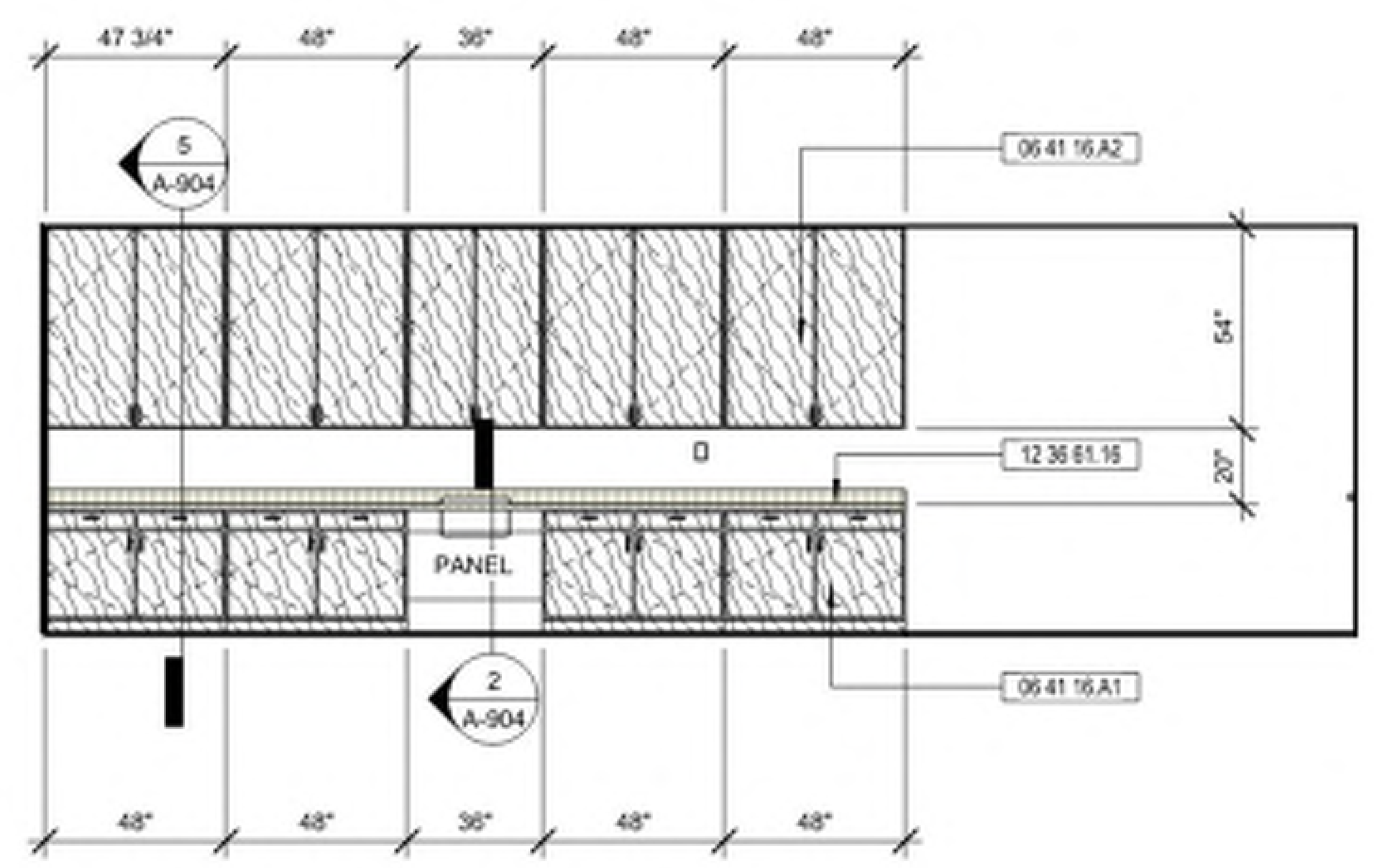
1/4" = 1'-0"



5 TYPICAL CLASSROOM FRONT
1/4" = 1'-0"



4 CLASSROOM C02 - EAST
1/4" = 1'-0"



3 CLASSROOM C02 - WEST
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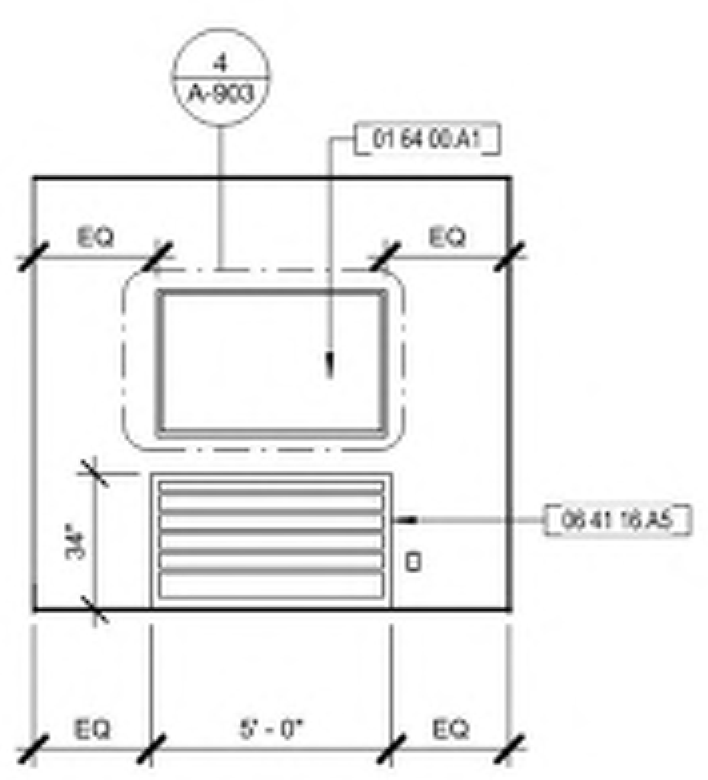
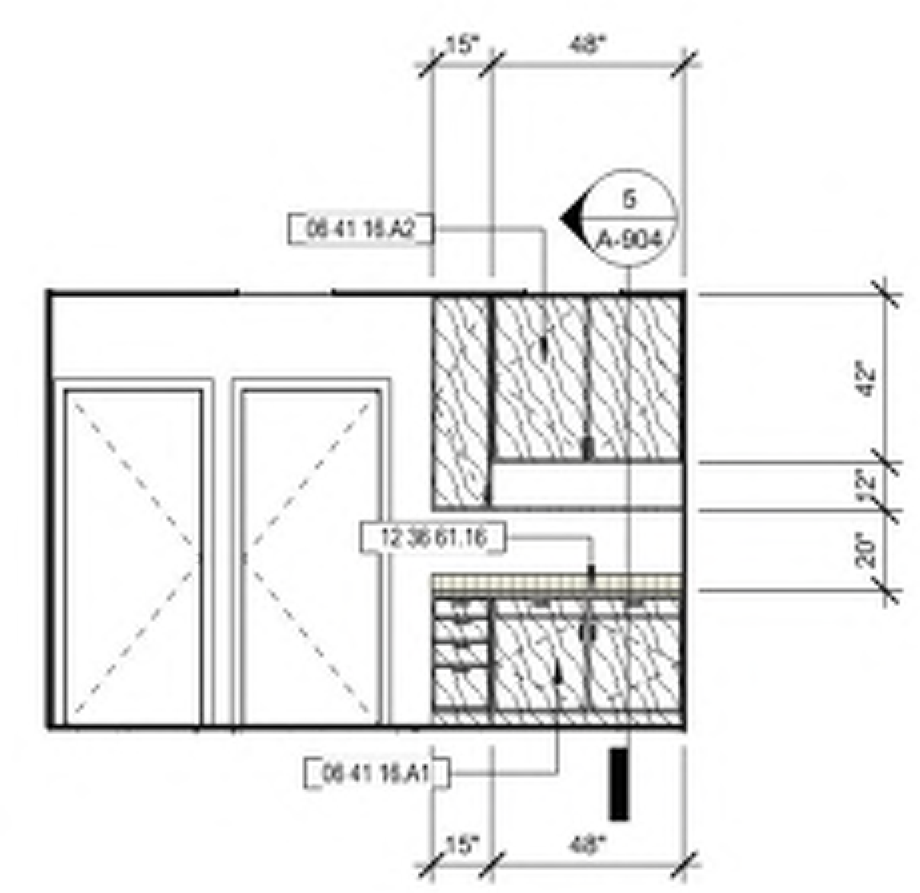
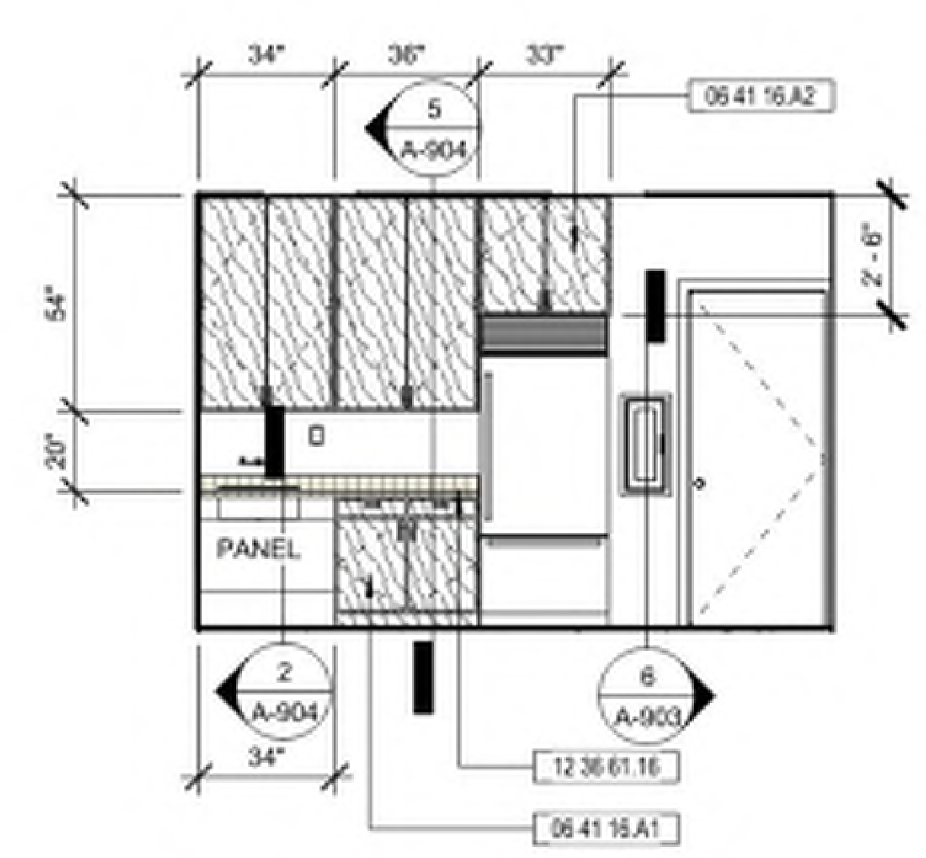


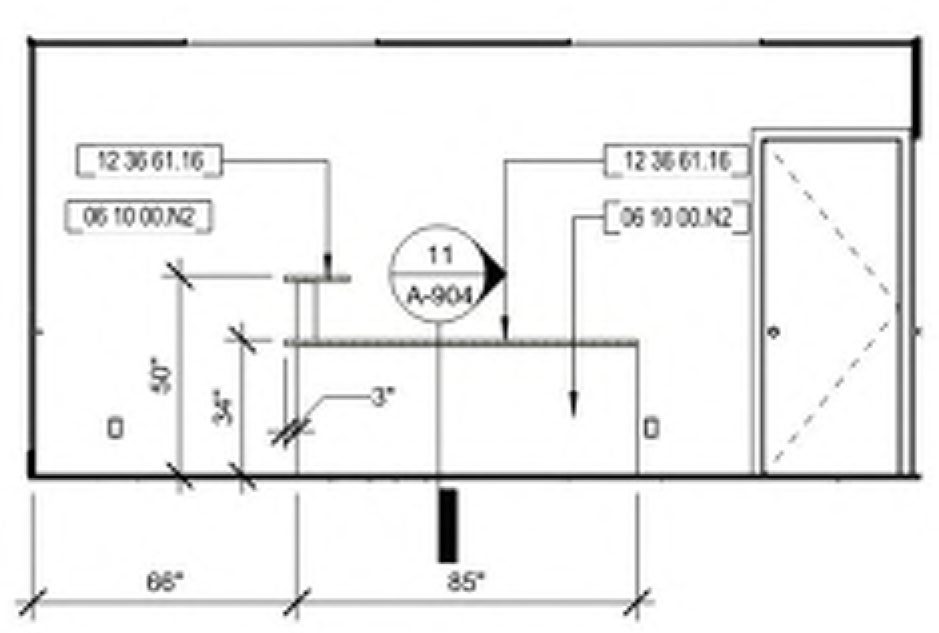
8 CONFERENCE C20 - SOUTH
1/4" = 1'-0"



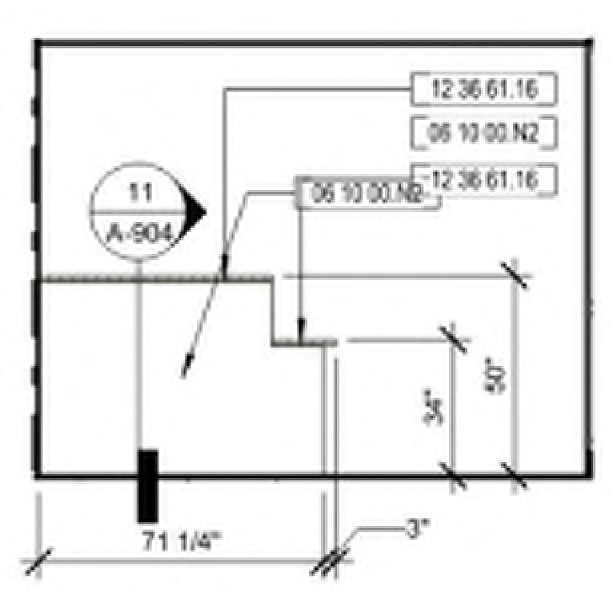
7 STAFF WORKROOM C12 - WEST
1/4" = 1'-0"



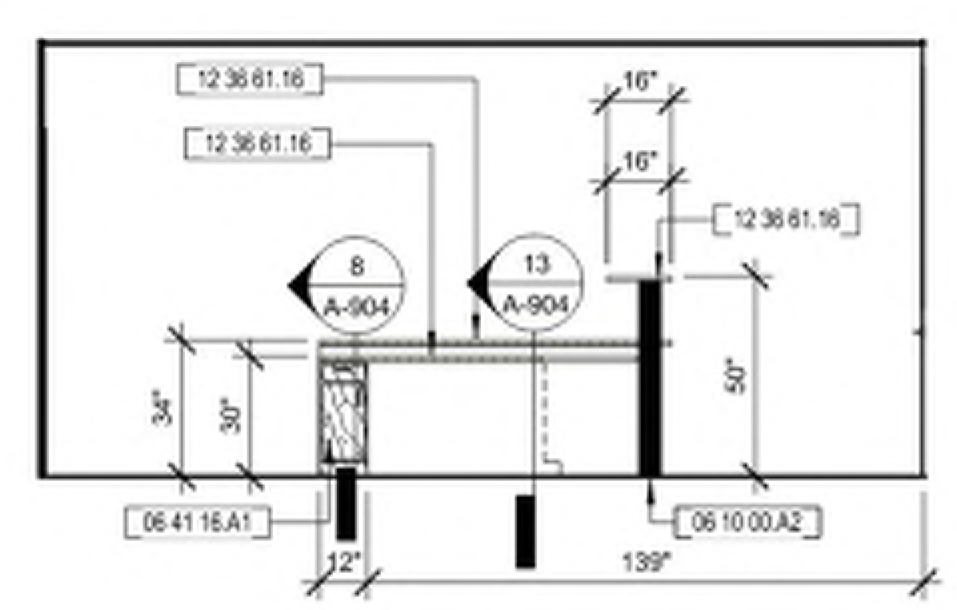
6 STAFF WORKROOM C12 - EAST
1/4" = 1'-0"



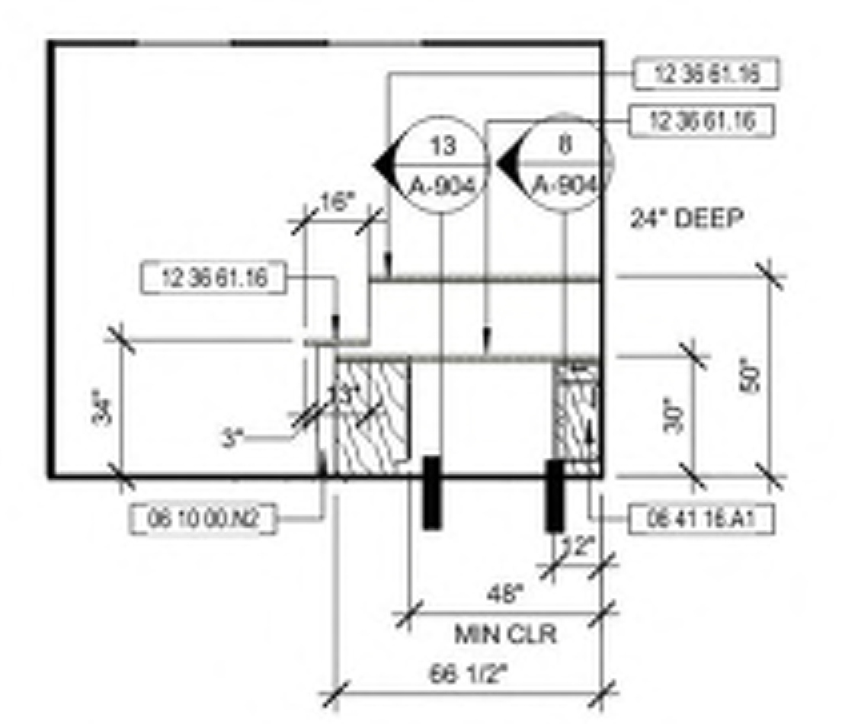
12 RECEPTION C11 - EAST
1/4" = 1'-0"



11 RECEPTION C11 - SOUTH
1/4" = 1'-0"



10 RECEPTION C11 - WEST
1/4" = 1'-0"



9 RECEPTION C11 - NORTH
1/4" = 1'-0"

GENERAL NOTES

RESTROOM

1. SEE ACCESSIBLE DEATAILS SHEET FOR ALL RESTROOM FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
2. PROVIDE BACKING FOR ALL GRAB BARS.
3. ALL GRAB BARS MUST COMPLY WITH CLEARENCE REQUIREMENT PER C.B.C. 11B-609.3. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE A MINIMUM OF 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE A MINIMUM OF 1 1/2".
4. AT ACCESSIBLE RESTROOM STALLS, 34" MINIMUM CLEAR AT DOORS WHEN OPENED AT 90 DEGREES.
5. TOE CLEARENCE; AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARENCE OF 9" DEEP MINIMUM ABOVE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND COMPARTMENT SIDE FACE OF PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. PARTITION COMPONANTS AT TOE CLEARENCE FOR CHILDRENS USE SHALL PROVIDE A TOE CLEARENCE OF 12" MINIMUM ABOVE FINISH FLOOR, PER C.B.C. 11B-604.8.1.4.

CASEWORK

1. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONANTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION..
2. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL OUTLETS.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. PROVIDE BACKSPLASH FOR ALL COUNTERTOPS.
5. ALL CASEWORK; REFER TO NORTH AMERICAN ARCHITECTURAL WOODWORK SERIES CABINET DESIGN SERIES.

KEYNOTES

01 64 00.A1	FLAT-PANEL TELEVISION
01 64 00.A3	INTERACTIVE PROMETHEAN BOARD, WALL MOUNTED - OFOI, PROVIDE WALL BACKING, POWER & DATA, SIM TO 4/A-903
06 10 00.A2	WOOD BLOCKING AS REQUIRED
06 10 00.N2	PONY WALL - 2X4 STUDS @ 16" OC W 5/8" WB ON ALL EXPOSED SIDES
06 41 16.A1	PLASTIC LAMINATE CLAD BASE CABINET - WILSONART CLEAR MAPLE S2409
06 41 16.A2	PLASTIC LAMINATE CLAD WALL CABINET - WILSONART CLEAR MAPLE S2409
06 41 16.A5	PLASTIC LAMINATE 10" DEEP OPEN SHELF UNIT - WILSONART CLEAR MAPLE S2409
12 36 61.16	SOLID SURFACING COUNTERTOPS - CORIAN: OYSTER GRIGIO

IDENTIFICATION STAMP
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SDVOSB

Mountain Empire Unified School Dscirict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

INTERIOR ELEVATIONS CASEWORK - BUILDING C

A-521

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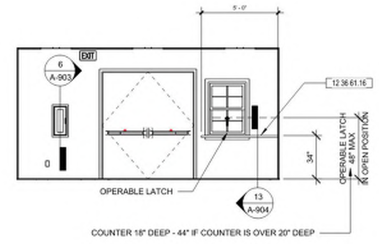
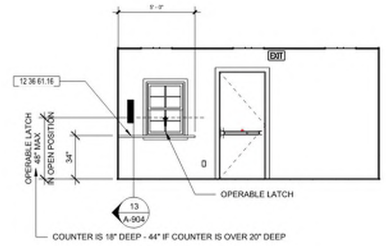
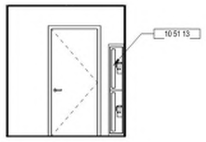


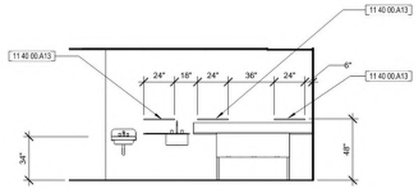
2 BOOKROOM - SOUTH
1/4" = 1'-0"



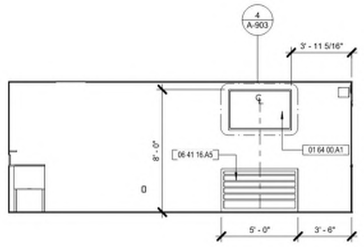
1 BOOKROOM - NORTH
1/4" = 1'-0"



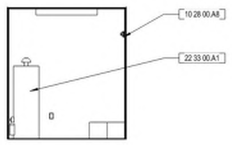
5 SERVING BACK P104-2 - SOUTH
1/4" = 1'-0"



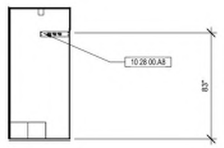
4 SERVING P104-2 - EAST
1/4" = 1'-0"



3 LOUNGE P-104-1 - SOUTH
1/4" = 1'-0"



7 JANITOR P104-3 - SOUTH
1/4" = 1'-0"



6 JANITOR P104-3 - WEST
1/4" = 1'-0"

GENERAL NOTES

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2. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL OUTLETS.
3. PROVIDE BACKING FOR ALL CASE WORK.
4. PROVIDE BACKSPLASH FOR ALL COUNTERTOPS.
5. ALL CASEWORK; REFER TO NORTH AMERICAN ARCHITECTURAL WOODWORK SERIES CABINET DESIGN SERIES.

KEYNOTES

01 64 00.A1	FLAT-PANEL TELEVISION
06 41 16.A5	PLASTIC LAMINATE 10" DEEP OPEN SHELF UNIT - WILSONART CLEAR MAPLE S2409
10 28 00.A8	MOP AND BROOM HOLDER
10 51 13	METAL LOCKERS - REFER TO 17/A-904 FOR MOUNTING INFORMATION
11 40 00.A13	24" LONG x 6" DEEP METAL SHELF
12 36 61.16	SOLID SURFACING COUNTERTOPS - CORIAN: OYSTER GRIGIO
22 33 00.A1	WATER HEATER REFER TO PLUMBING DRAWINGS

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AUDREY V. STRATTON
No. C26099
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

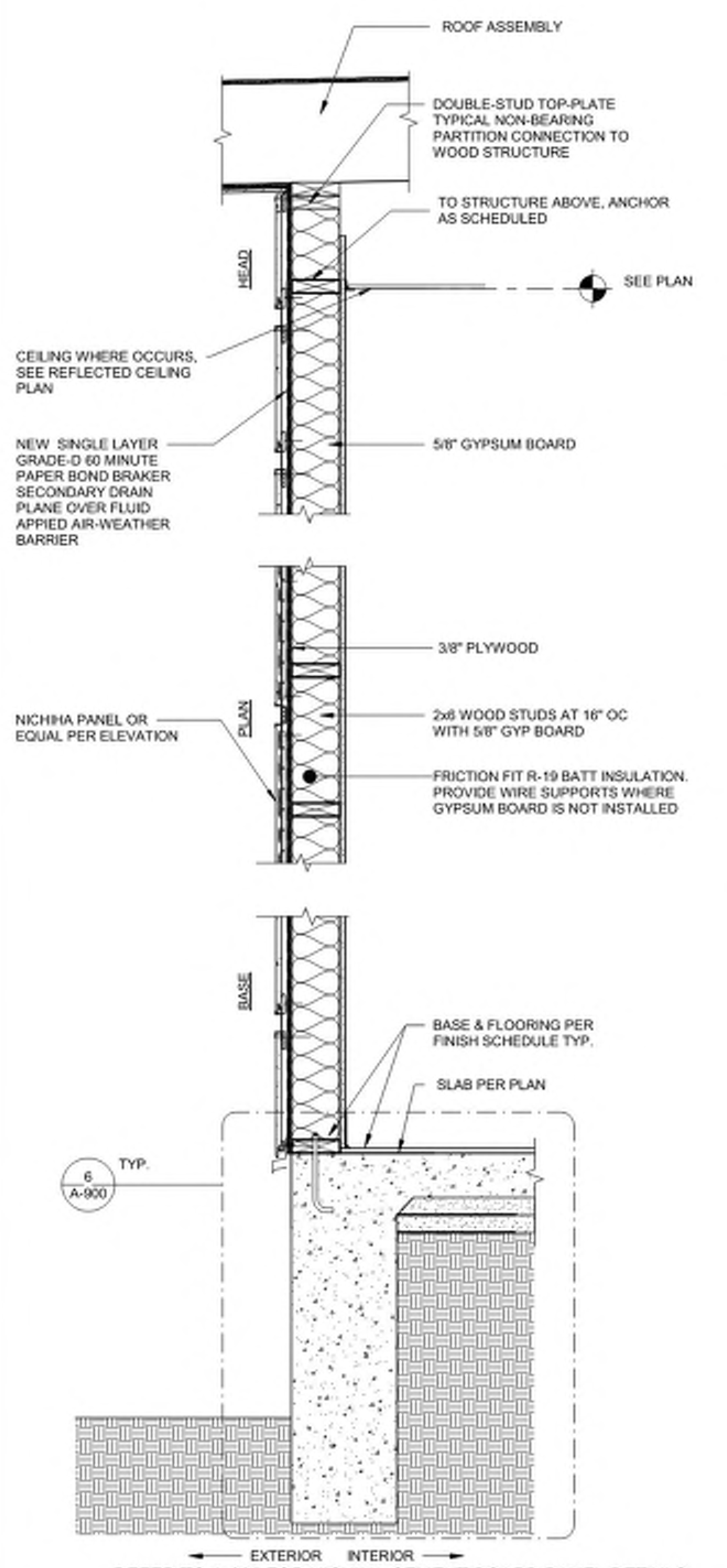
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

INTERIOR ELEVATIONS CASEWK & EQUIP- BOOKRM & P104

A-541

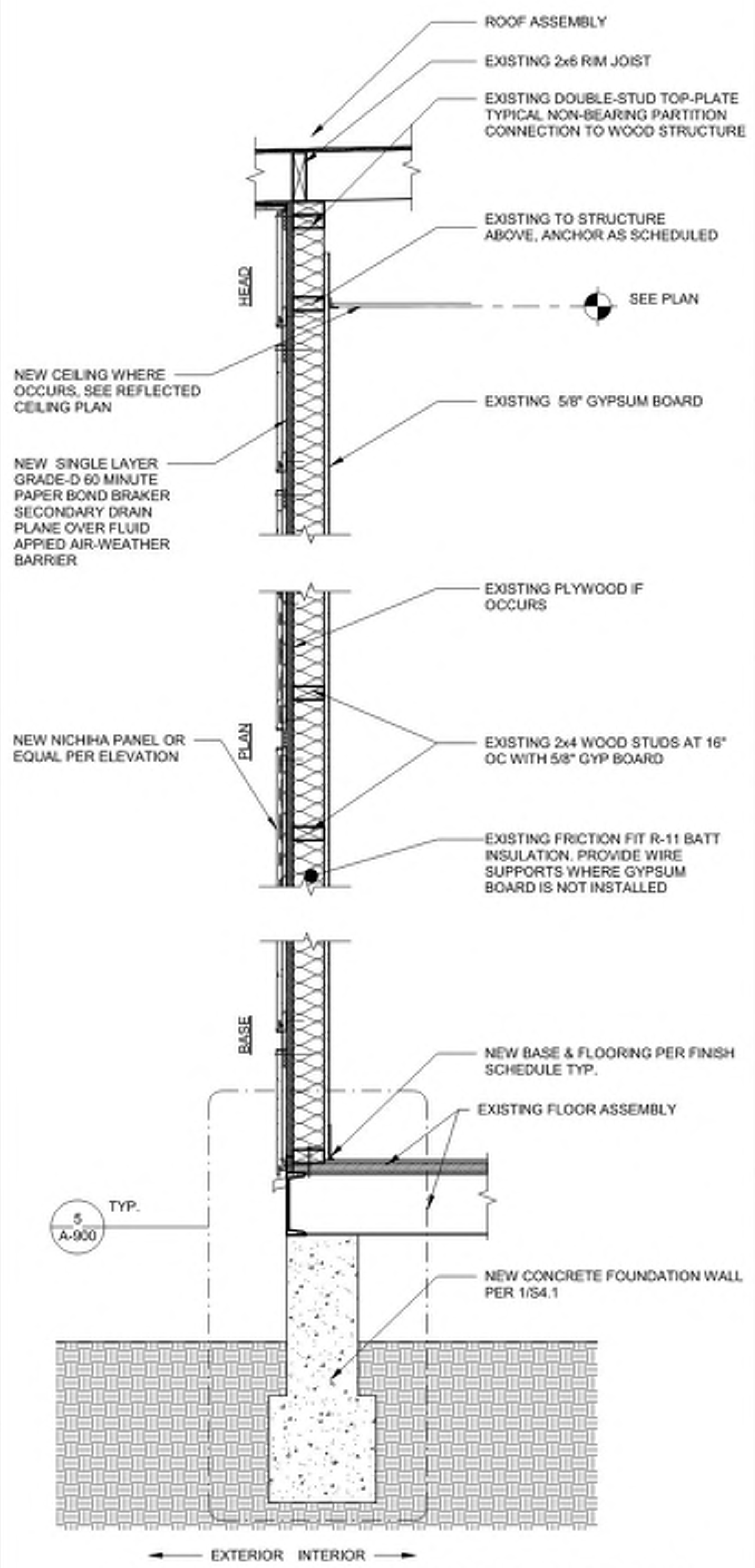
10/10/2022 1:57:27 PM

NOTE: ALL WORK SHOWN ON THIS WALL TYPE IS NEW



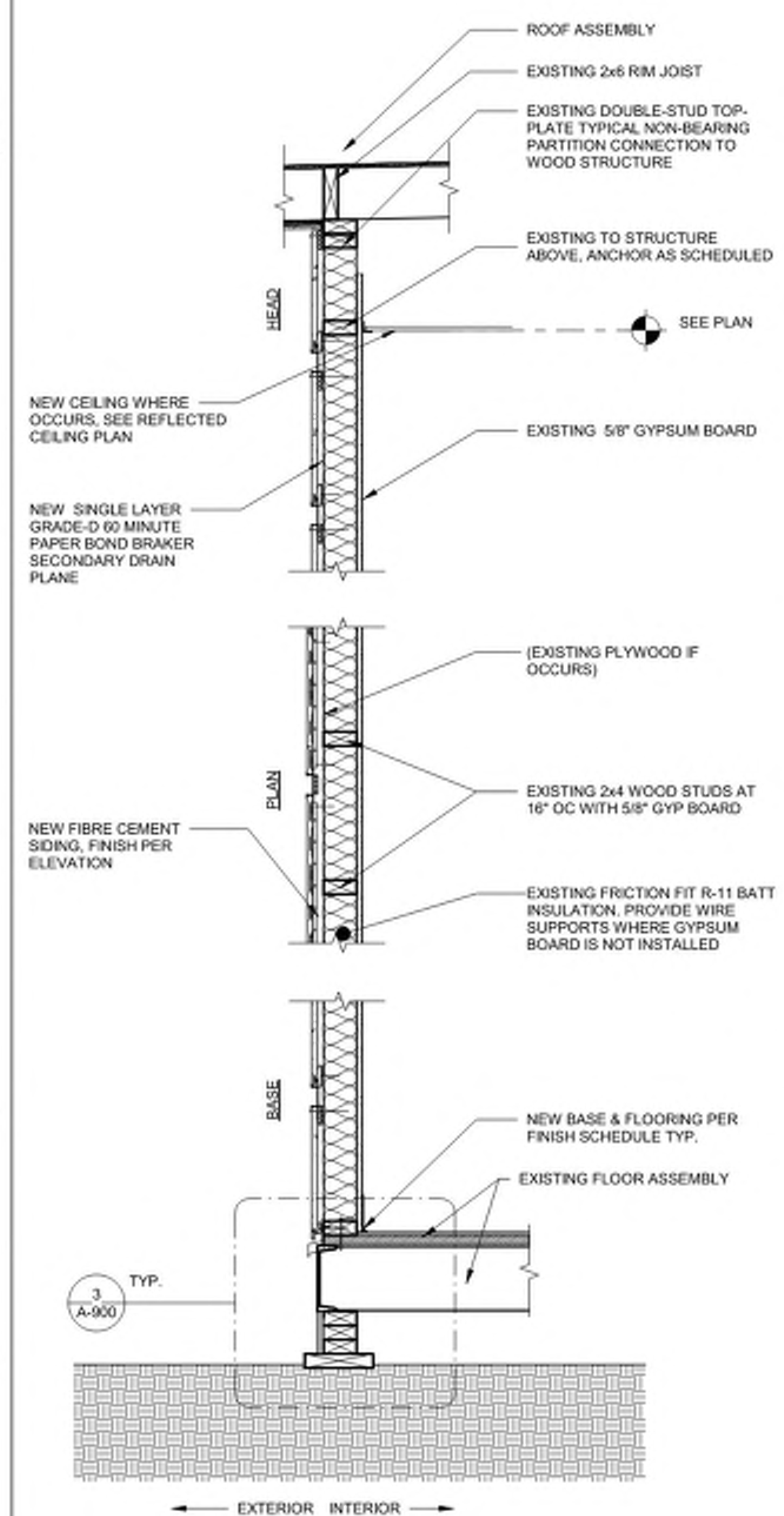
REFER TO A-905 FOR NICHIHA CEMENT BOARD PANEL DETAILS

5 WALL - TYPE C
1" = 1'-0"



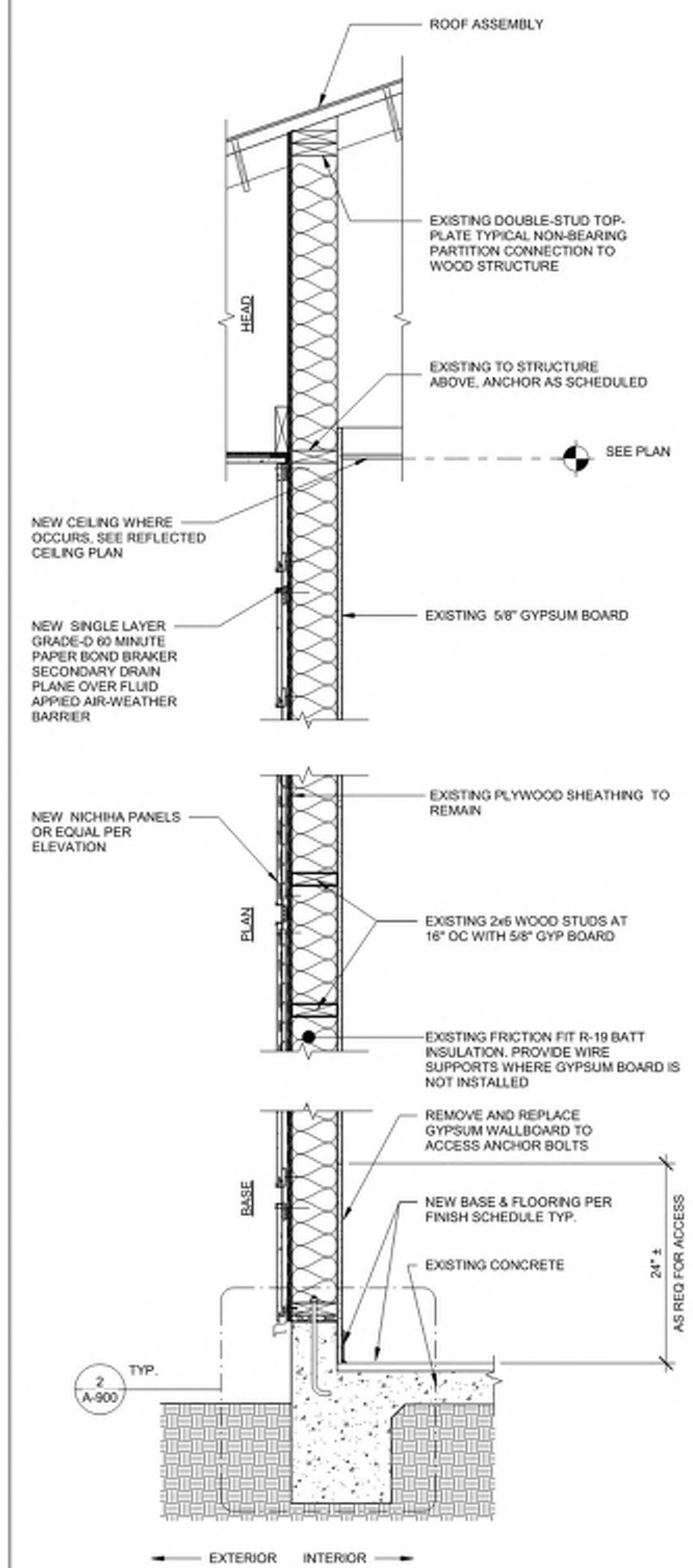
REFER TO A-905 FOR NICHIHA CEMENT BOARD PANEL DETAILS

4 WALL - TYPE B2
1" = 1'-0"



REFER TO A-905 FOR NICHIHA CEMENT BOARD PANEL DETAILS

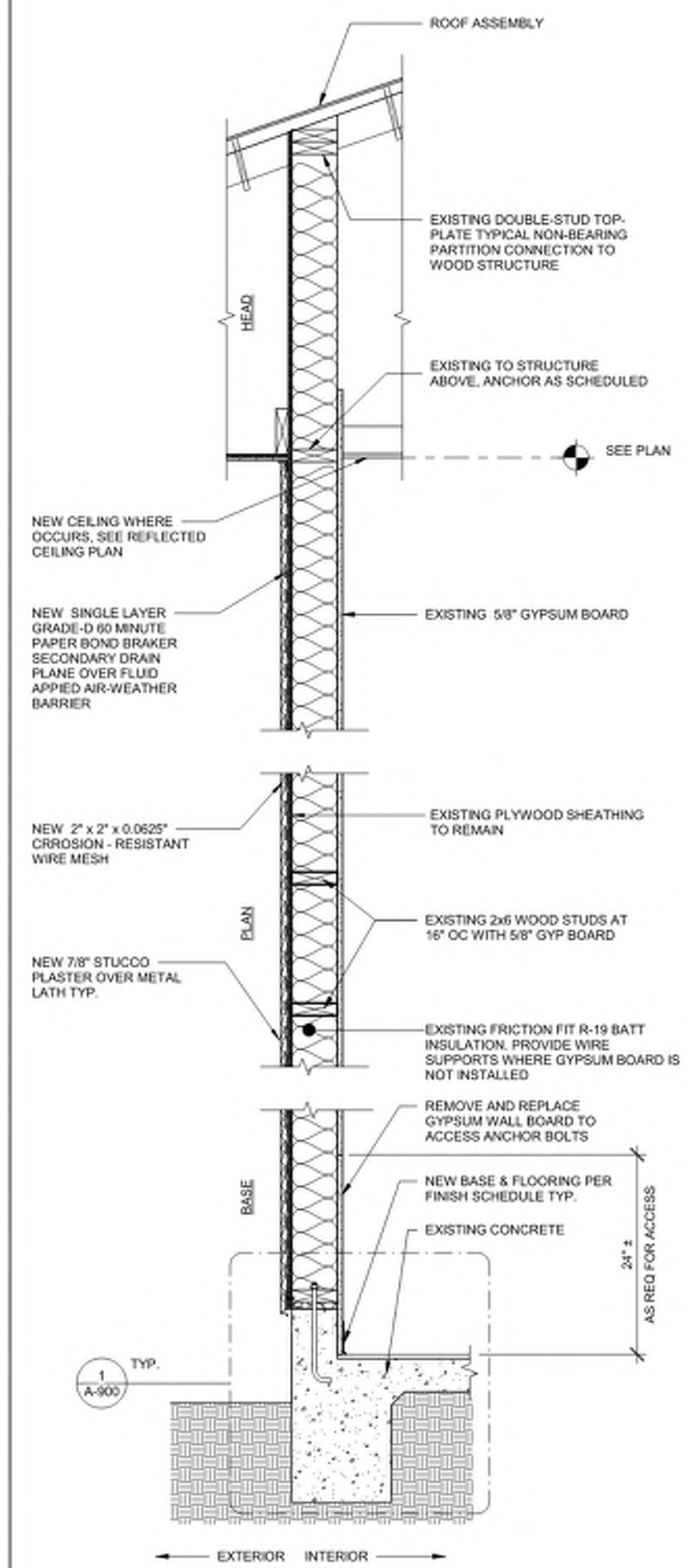
3 WALL - TYPE B1
1" = 1'-0"



FIBRE CEMENT BOARD NOTES:
GENERIC BOARD SIZE- 17 7/8" H
71 9/16" L
5/8" THK
WEIGHT- 35.2 LBS/PANEL
3.9 LBS/ SQ. FT.

REFER TO A-905 FOR NICHIHA CEMENT BOARD PANEL DETAILS

2 WALL - TYPE A2
1" = 1'-0"



1 WALL - TYPE A1
1" = 1'-0"

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Mountain Empire Unified School District

Project No.2017

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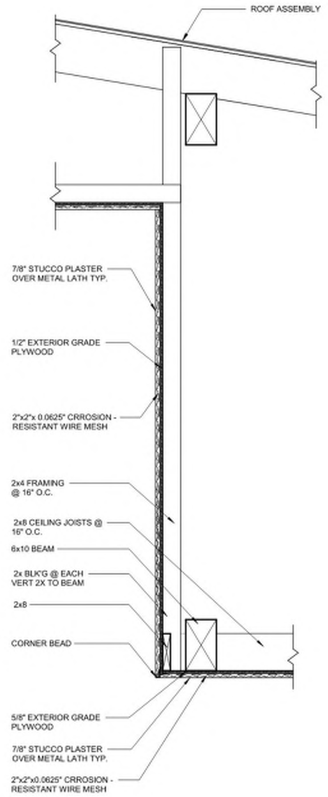
DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

EXTERIOR WALL TYPES

A-700

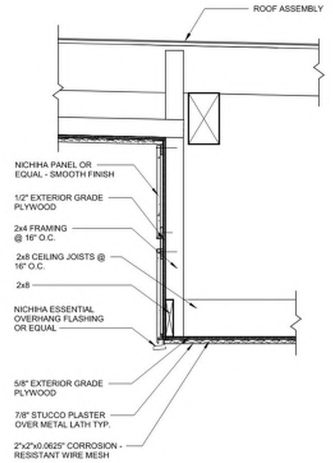
9/27/2022 9:27:53 AM



REFER TO 3&4/A-009 FOR ADDITIONAL FRAMING INFORMATION

3 WALL TYPE - D3

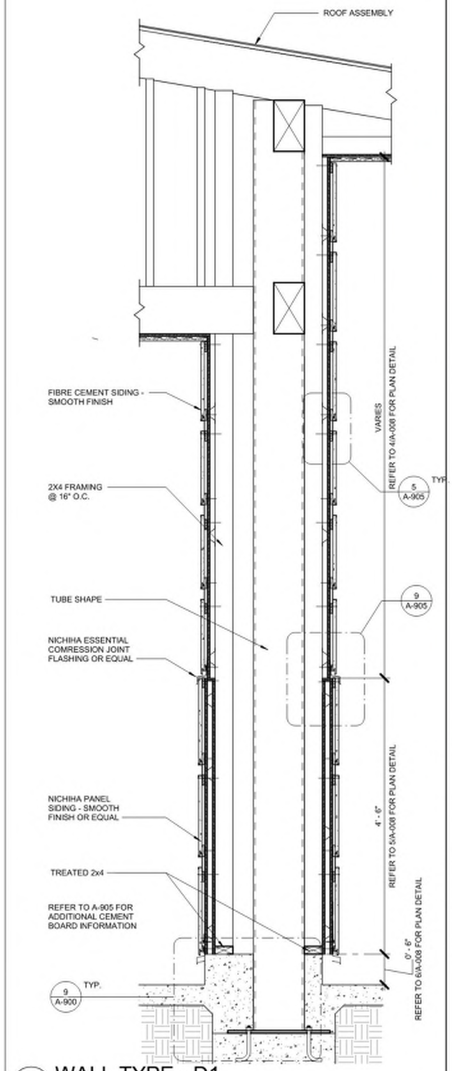
1" = 1'-0"



REFER TO 3&4/A-009 FOR ADDITIONAL FRAMING INFORMATION & A-905 FOR CEMENT BOARD INFORMATION

2 WALL TYPE - D2

1" = 1'-0"



1 WALL TYPE - D1

1" = 1'-0"

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AUDREY V. STRATTON
NO. C28089
REN. 05/31/23

Mountain Empire Unified
School District

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

	04.29.2022	DSA SUBMITTAL
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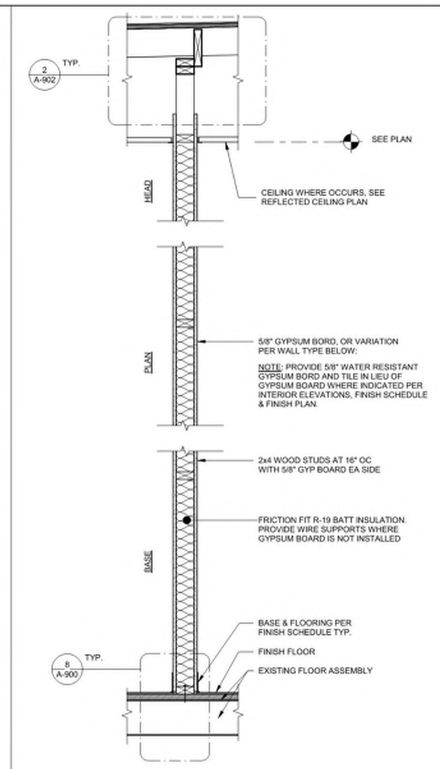
MARK	DATE	DESCRIPTION

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

EXTERIOR WALL
TYPES - ADD
ALTERNATE

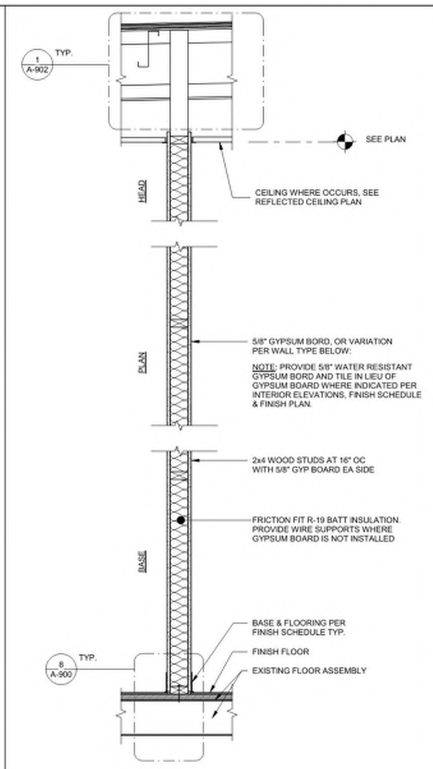
A-701

10/10/2022 1:57:29 PM



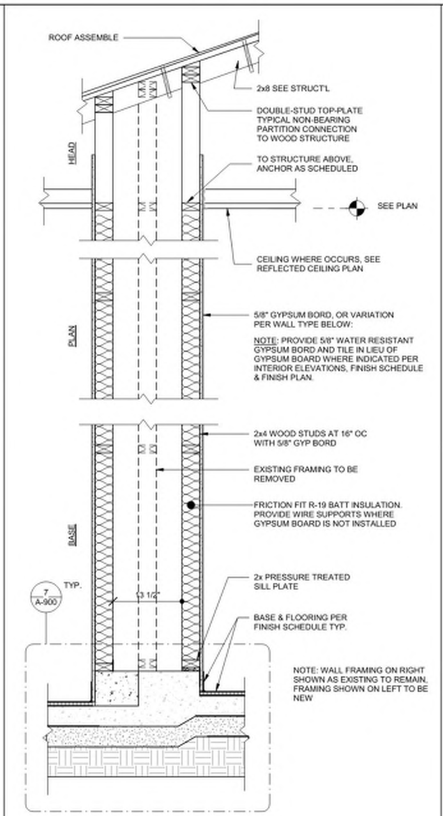
4 WALL - TYPE H2

1" = 1'-0"



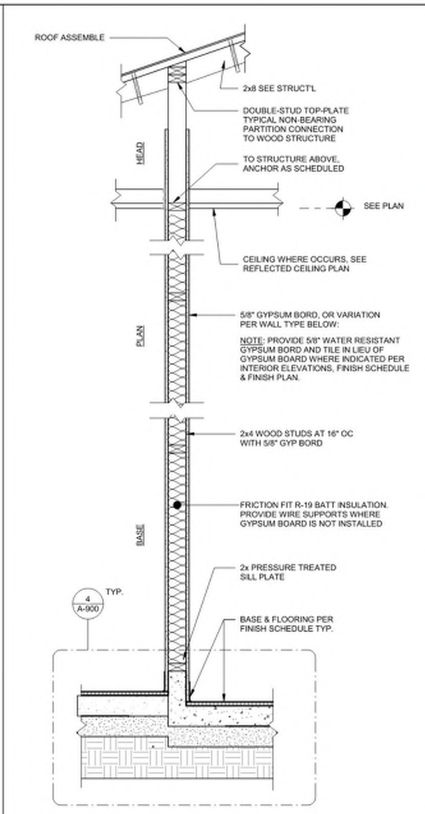
3 WALL - TYPE H1

1" = 1'-0"



2 WALL - TYPE G2

1" = 1'-0"



1 WALL - TYPE G1

1" = 1'-0"

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INTERIOR WALL TYPES

A-702

9/27/2022 9:27:58 AM

SITE GATE SCHEDULE

NUMBER	TYPE	GATE DIMENSIONS WIDTH	GATE DIMENSIONS HEIGHT	GATE DIMENSIONS THICKNESS	GATE MATERIAL	GATE FINISH	FRAME MATERIAL	FRAME FINISH	PANIC DEVICE	CARD READER	FIRE RATING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	REMARKS
G01	G1	7' - 10"	8' - 0"		CHAIN LINK	GALV	PIPE		Yes	No	No	15	1/A-024	1/A-024	--	
G02	G1	7' - 10"	8' - 0"		CHAIN LINK	GALV	PIPE		Yes	No	No	15	1/A-024	1/A-024	--	
G03	G3	8' - 0"	8' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	04	9/A-024	9/A-024	--	
G04	G3	8' - 0"	8' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	04	9/A-024	9/A-024	--	
G05	G3	8' - 0"	8' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	04	9/A-024	9/A-024	--	
G06	G3	8' - 0"	8' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	04	9/A-024	9/A-024	--	
G07	G3	8' - 0"	8' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	04	9/A-024	9/A-024	--	
G08	G3	8' - 0"	8' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	04	9/A-024	9/A-024	--	
G09	G3	8' - 0"	8' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	04	9/A-024	9/A-024	--	
G10	G2	3' - 0"	7' - 0"		GALV STEEL	POWDER COAT	GALV STEEL	POWDER COAT	Yes	No	No	07	10/A-024	10/A-024	--	

DOOR SCHEDULE - BUILDING C

NUMBER	TYPE	DOOR DIMENSIONS WIDTH	DOOR DIMENSIONS HEIGHT	DOOR DIMENSIONS THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	PANIC DEVICE	CARD READER	CBC CH. 10 (INTERIOR SIDE LOCKABLE)	FIRE RATING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	REMARKS
C11A	E4	3' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	17	1/A-801	5/A-801	9/A-801	REMOVE 6" CONCRETE CURB IF EXISTING
C11B	E3	3' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	No	Yes	Yes	No	14	2/A-801	6/A-801	10/A-801	REMOVE 6" CONCRETE CURB IF EXISTING
C14	I1	3' - 0"	6' - 8"	1 5/8"	WD	ST-1	HM	ST-1		No	No	No	01	4/A-801	8/A-801	12/A-801	REMOVE 6" CONCRETE CURB IF EXISTING
C15	I1	3' - 0"	6' - 8"	1 5/8"	WD	ST-1	HM	ST-1		No	No	No	01	4/A-801	8/A-801	12/A-801	REMOVE 6" CONCRETE CURB IF EXISTING
C18A	E2	6' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	10	1/A-801	5/A-801	9/A-801	
C18B	E2	6' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	10	1/A-801	5/A-801	9/A-801	
C18C	E2	6' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	10	1/A-801	5/A-801	9/A-801	
C18D	E2	6' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	10	1/A-801	5/A-801	9/A-801	
C18E	E2.1	6' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	No	Yes	13	2/A-801	6/A-801	10/A-801	
C18F	E2.1	6' - 0"	9' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	No	Yes	12	2/A-801	6/A-801	10/A-801	

DOOR SCHEDULE - BUILDING P101

NUMBER	TYPE	DOOR DIMENSIONS WIDTH	DOOR DIMENSIONS HEIGHT	DOOR DIMENSIONS THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	PANIC DEVICE	CARD READER	CBC CH. 10 (INTERIOR SIDE LOCKABLE)	FIRE RATING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	REMARKS
P101-1A	E4	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	No	Yes	Yes	No	08	3/A-801	7/A-801	11/A-801	
P101-1B	E4	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	No	Yes	Yes	No	08	3/A-801	7/A-801	11/A-801	
P101-3	E4	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	No	Yes	No	No	06	3/A-801	7/A-801	11/A-801	
P101-4	E4	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	No	Yes	No	No	09	3/A-801	7/A-801	11/A-801	
P101-5	I1	3' - 0"	7' - 0"	1 3/4"	WD	ST-1	HM	P-1	No	No	No	No	02	4/A-801	8/A-801	16/A-801	
P101-6	I1	3' - 0"	7' - 0"	1 3/4"	WD	ST-1	HM	P-1	No	No	No	No	02	4/A-801	8/A-801	16/A-801	
P101-7	I1	3' - 0"	7' - 0"	1 3/4"	WD	ST-1	HM	P-1	No	No	No	No	02	4/A-801	8/A-801	16/A-801	

DOOR SCHEDULE - BOOKROOM

NUMBER	TYPE	DOOR DIMENSIONS WIDTH	DOOR DIMENSIONS HEIGHT	DOOR DIMENSIONS THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	PANIC DEVICE	CARD READER	CBC CH. 10 (INTERIOR SIDE LOCKABLE)	FIRE RATING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	REMARKS
Z1A	E1	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	11	3/A-801	7/A-801	11/A-801	
Z1B	E2	6' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	16	3/A-801	7/A-801	11/A-801	

DOOR SCHEDULE - BUILDING P102

NUMBER	TYPE	DOOR DIMENSIONS WIDTH	DOOR DIMENSIONS HEIGHT	DOOR DIMENSIONS THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	PANIC DEVICE	CARD READER	CBC CH. 10 (INTERIOR SIDE LOCKABLE)	FIRE RATING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	REMARKS
P102-1	E4	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	No	Yes	Yes	No	08	3/A-801	7/A-801	11/A-801	

DOOR SCHEDULE - BUILDING P104

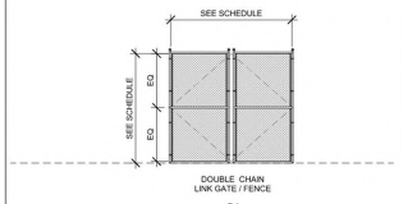
NUMBER	TYPE	DOOR DIMENSIONS WIDTH	DOOR DIMENSIONS HEIGHT	DOOR DIMENSIONS THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	PANIC DEVICE	CARD READER	CBC CH. 10 (INTERIOR SIDE LOCKABLE)	FIRE RATING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	REMARKS
P104-1A	E1	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	05	3/A-801	7/A-801	11/A-801	
P104-1B	E1	3' - 0"	7' - 0"	1 3/4"	HM	P-3	HM	P-3	Yes	Yes	Yes	No	05	3/A-801	7/A-801	11/A-801	
P104-3	I1	3' - 0"	7' - 0"	1 3/4"	WD	P-1	HM	P-1	No	No	No	No	03	4/A-801	8/A-801	16/A-801	
P104-4	I1	3' - 0"	7' - 0"	1 3/4"	WD	P-1	HM	P-1	No	No	No	No	03	4/A-801	8/A-801	16/A-801	

CBC CH. 10 (REF: 17075 (A) (B), CAL ED. CODE: CBC 1010.1.11

- THE FOLLOWING ROOMS WILL HAVE LOCKS THAT COMPLY WITH THE ABOVE MENTIONED REGULATION:

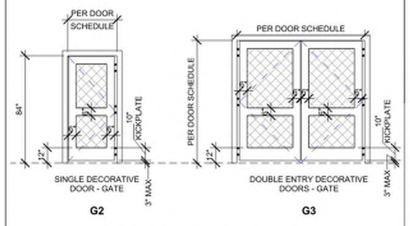
- C01	- C02	- C03	- C04
- C05A	- C05B	- C06A	- C06B
- C07	- C08	- C09	- C10
- C19	- C20		

- AS THESE DOORS ARE EXISTING AND SET TO REMAIN, HARDWARE UPDATES MUST BE MADE AS NECESSARY TO MEET STATE REQUIREMENTS.



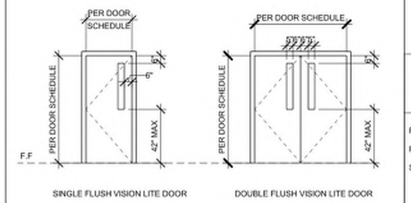
DOUBLE CHAIN LINK GATE / FENCE

G1

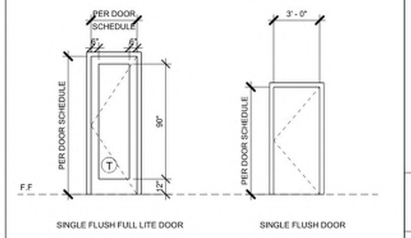


G2 **G3**

GATE TYPE LEGEND

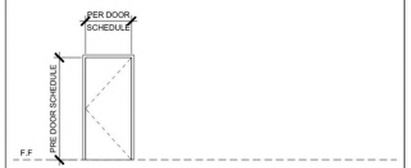


E1 **E2**



E3 **E4**

EXTERIOR DOOR TYPES LEGEND



I1

INTERIOR DOOR TYPES LEGEND

GENERAL NOTES

1. LOCATION OF HARDWARE TO COMPLY WITH SD1-100. NAAMM (HMMA) QND TITLE-24 (CALIFORNIA BUILDING CODE) AND ADA (AMERICANS WITH DISABILITIES ACT).
2. DIMENSIONS SHOWN ARE TO GLAZED OR LOUVERED OPENINGS OF RATED ASSEMBLIES, PROVIDE RATED FRAMES WITH APPROVED GLAZING. DO NOT USE WIRE GLASS.
3. DOORS AND HARDWARE SHALL COMPLY WITH C.B.C. SECTION 11B-404.
4. DOOR WIDTHS ON SCHEDULE FOR PAIRS REFER TO TOTAL WIDTH FOR BOTH LEAFS.
5. ELECTRICAL ROOMS WITH EQUIPMENT RATED 800-AMPERS OR MORE AND OVER 6 FEET WIDE, AND THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVISES OR CONTROL DEVISES WITH EXIT OR EXIT ACCESS DOORS, SHALL BE EQUIPPED WITH DIRECTION OF TRAVEL EGRESS TRAVEL. PER C.B.C. SECTION 1010.1.10 INSTALLATION, WHERE PANIC OR FIRE EXIT HARDWARES INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING:
   A. PANIC HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL305
   B. THE ACTUATION PORTION OF THE RELEASING DEVISE SHALL EXTEND NOT LESS THAN ONE-HALF OF THE DOOR LEAF WIDTH
   C. THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS.
6. FOR ACCESSIBLE GATE AND DOOR CLEARENCE REQUIREMENTS REFER TO SHEET G-004
7. TEMPERED SAFETY GLASS INDICATED BY T .
8. DOOR AND FRAME COLOR NOTE LEGEND SHOWN BELOW AND INDICATED IN "REMARKS" COLUMN OF SCHEDULE.
9. DOOR AND FRAME COLORS TO MATCH U.O.N.
10. ALL DOORS AND GATES ALONG THE PATH OF TRAVEL ROUTE SHALL COMPLY WITH THE PUSHING AND PULLING GFORCE TO OPEN A DOOR OR GATE AS FOLLOWS:
    A. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.
    B. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM.
    C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS MAXIMUM.
    D. EXTERIOR HINGED DOORS AND GATES: 5 POUND MAXIMUM.

    THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.
11. WHERE DOORS OR GATES HAVE CLOSERS, CLOSING SPEED SHALL COMPLY WITH 11B-404.2.8.
    A. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE TIME REQUIREDTO MOVE THE DOOR OR GATE TO A POSITION OF 12° FROM THE LATCH IS 5 SECONDS MINIMUM.
    B. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70°, THE DOOR OR GATE SHALL MOVE TO A CLOSED POSITION IN 1.5 SECONDS.

DOOR AND FRAME COLORS LISTED IN DOOR SCHEDULE

P-1	SW 7008 ALABASTER
P - 3	MATCH LA HABRA STUCCO FRENCH VANILLA X-55
ST-1	MATCH EXISTING STAIN DOORS

GATE AND FENCE COLORS LISTED IN GATE SCHEDULE

CHAIN LINK	GALVANIZED METAL
DECORATIVE METAL	SW 7068 GRIZZLE GRAY

ABBREVIATIONS

P	PAINT
HM	HOLLOW METAL
WD	WOOD
EG	EGGSHELL
SG	SEMI-GLOSS
FF	FACTORY FINISH
ST	STAIN
T	TEMPERED

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JEFFREY K. STRATTON
No. C28089
REN: 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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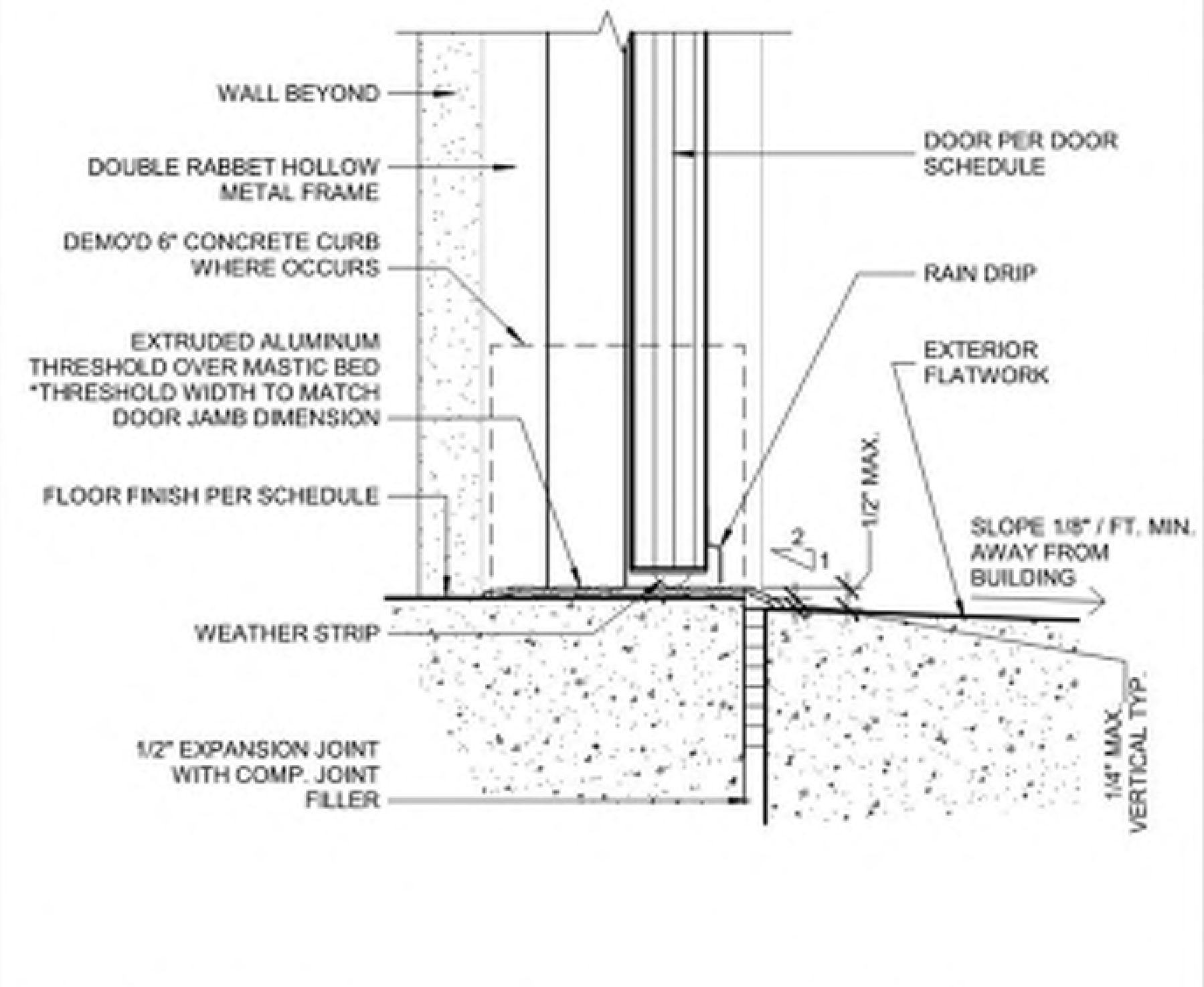
-	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

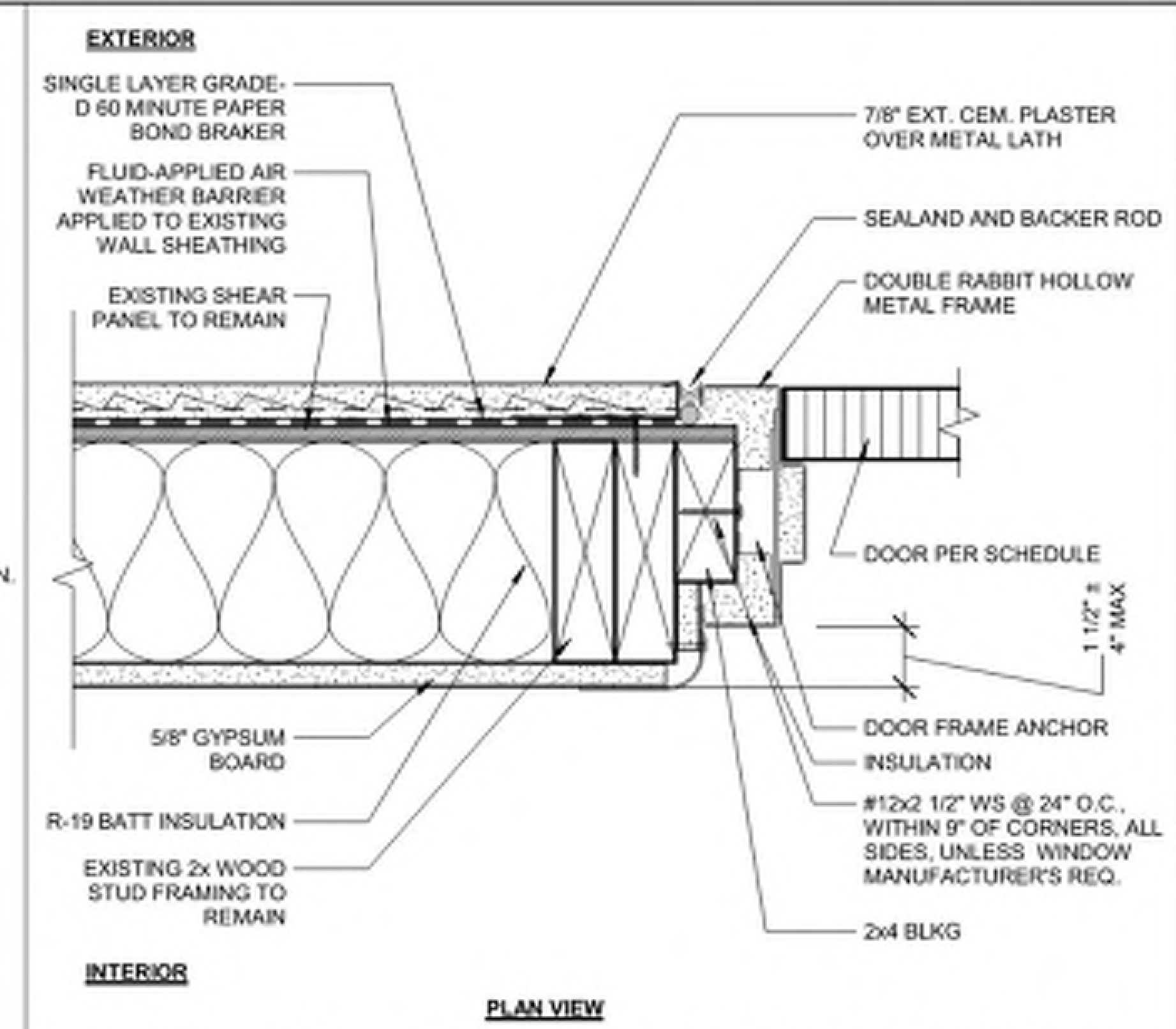
DOOR SCHEDULES

A-800

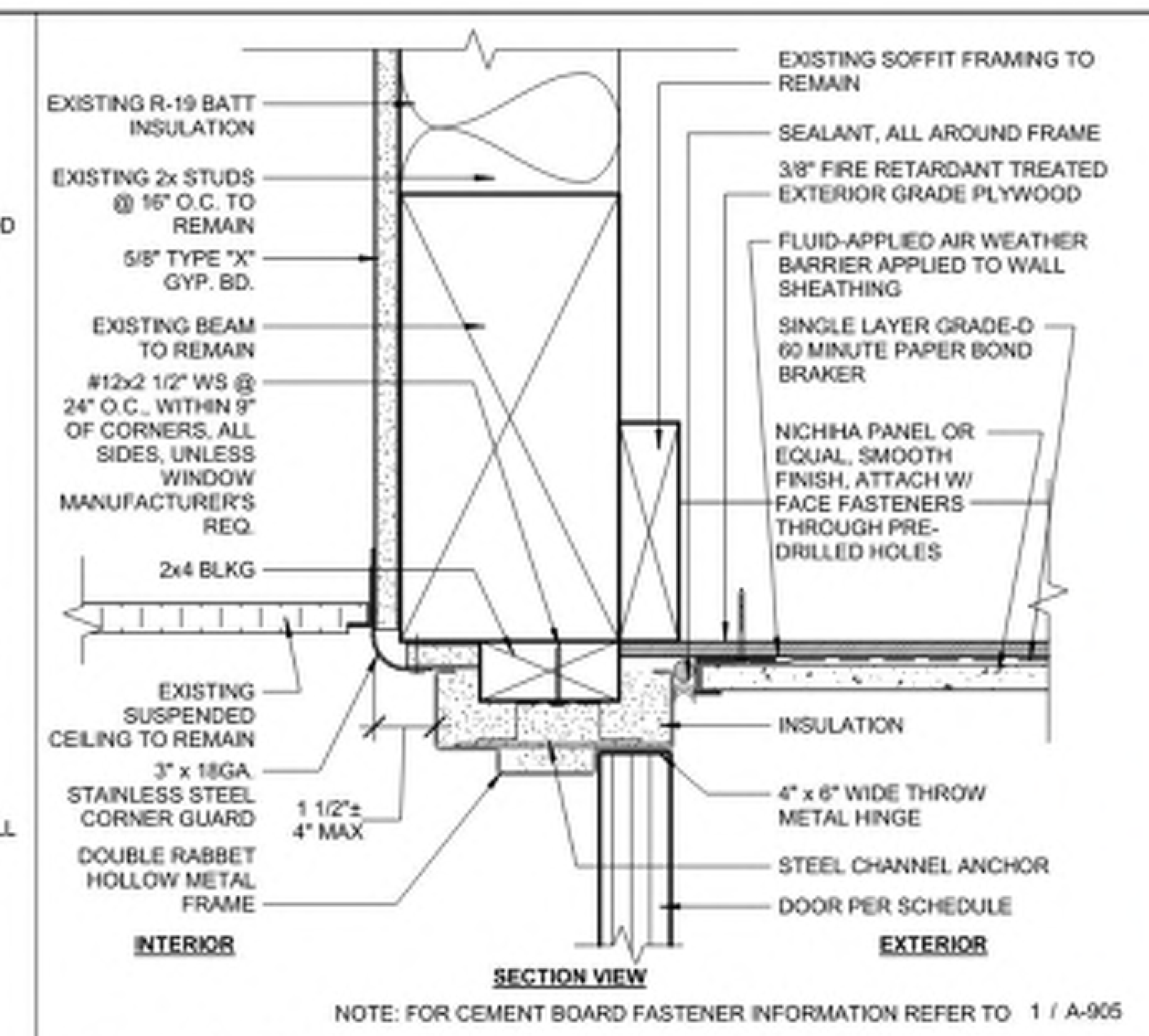
10/10/2022 1:57:40 PM



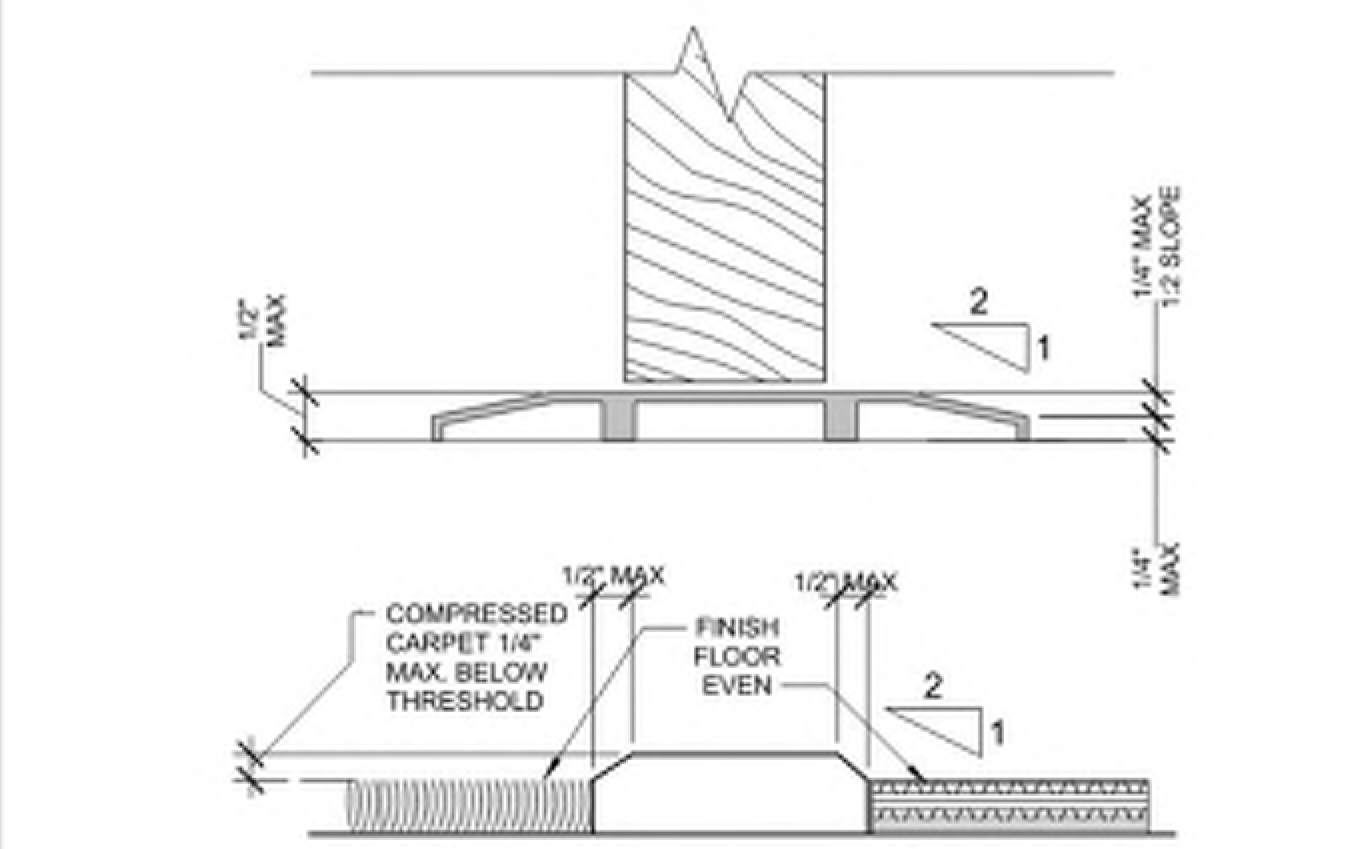
9 EXTERIOR DOOR THRESHOLD
3" = 1'-0"



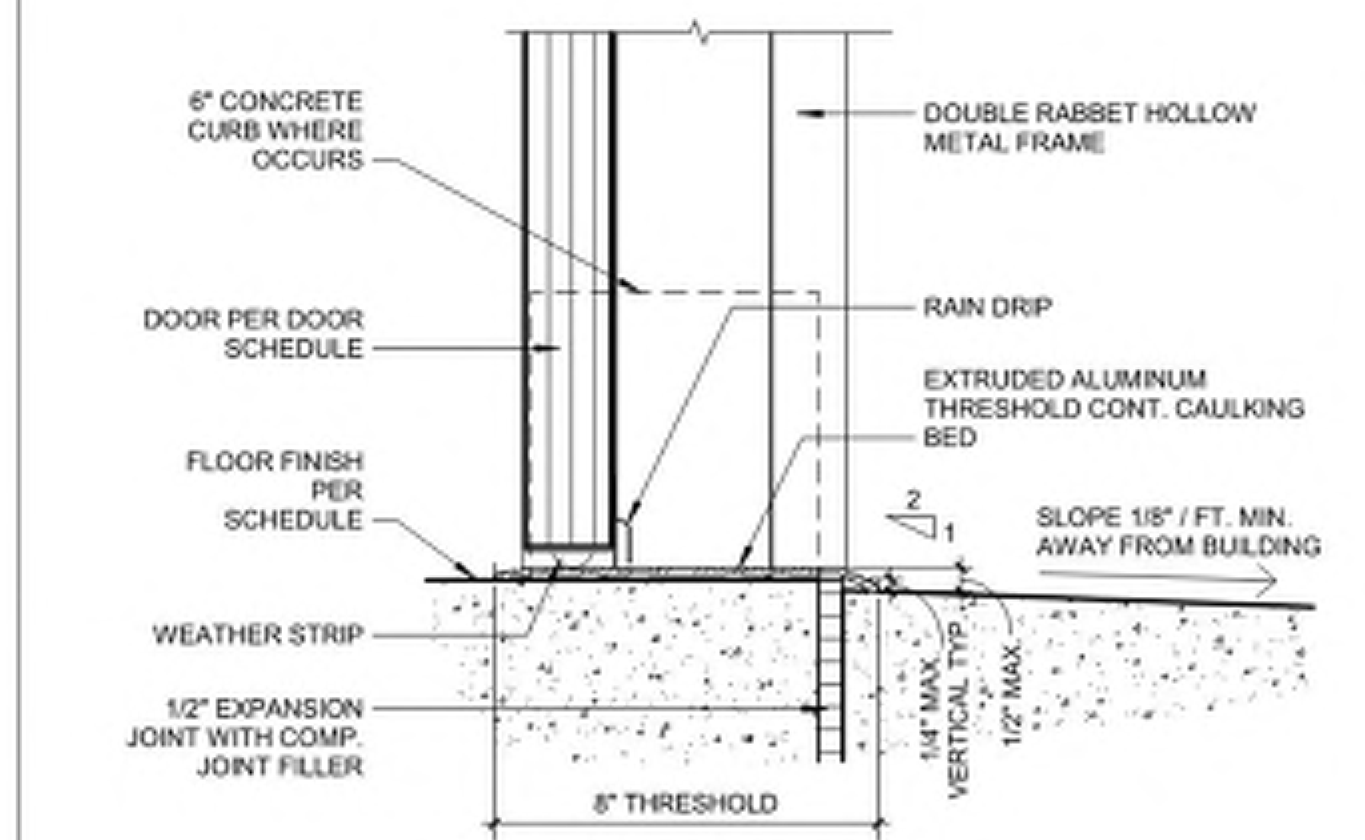
5 HL. MTL. DR. JAMB @ EXT. STUCCO
3" = 1'-0"



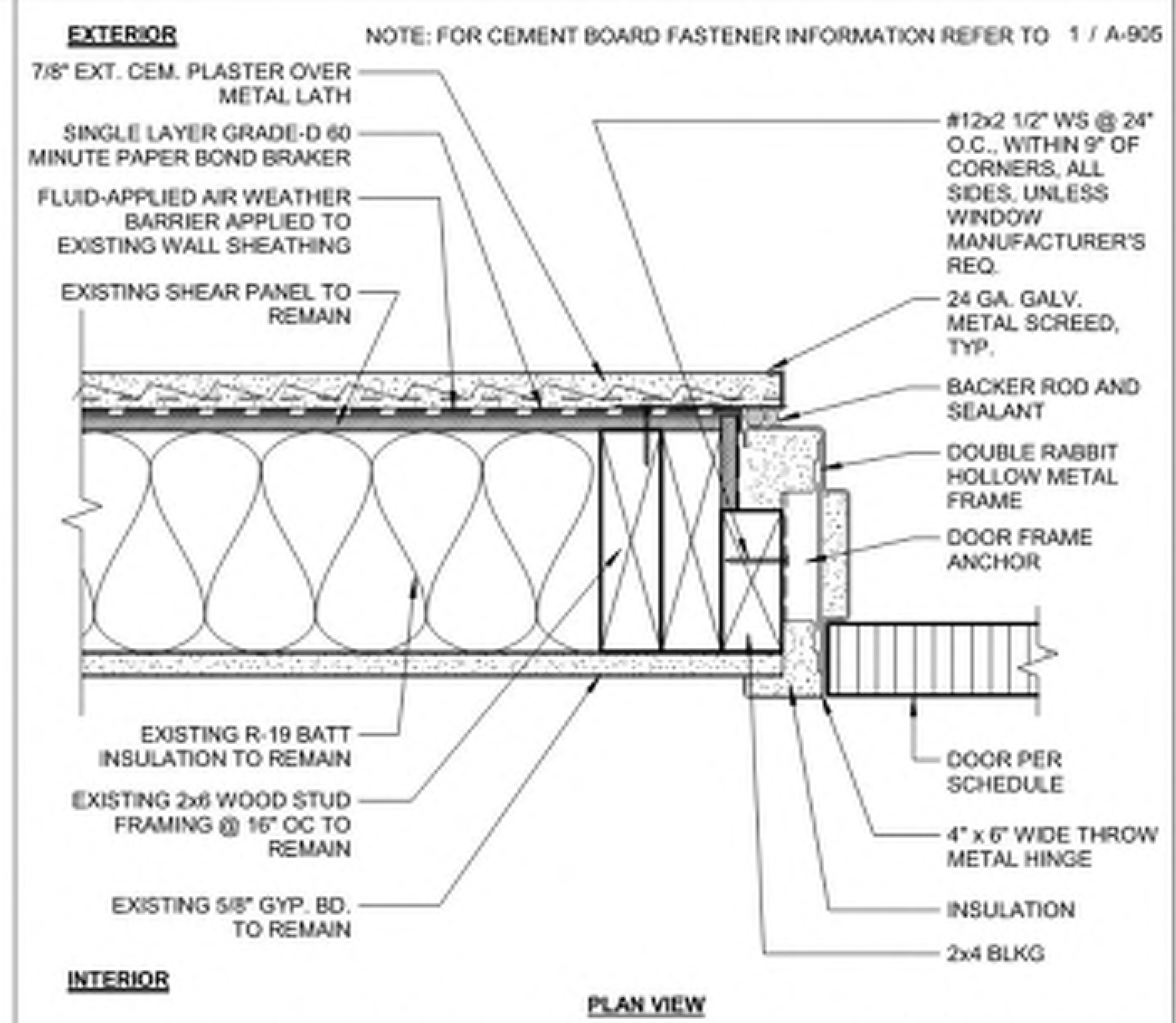
1 HL. MTL. DR. HEAD @ EXTERIOR
3" = 1'-0"



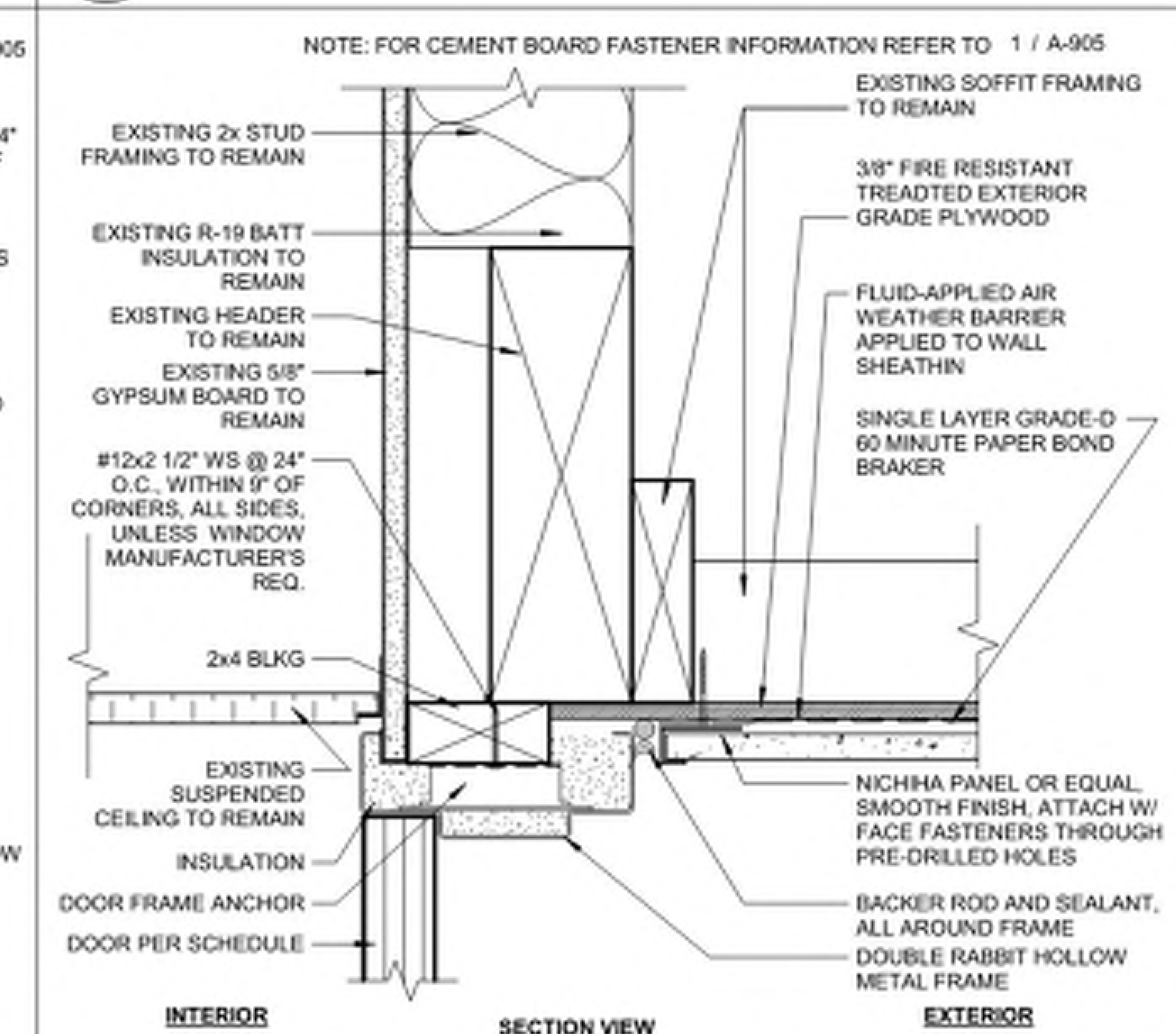
14 ADA COMPLIANT THRESHOLD
6" = 1'-0"



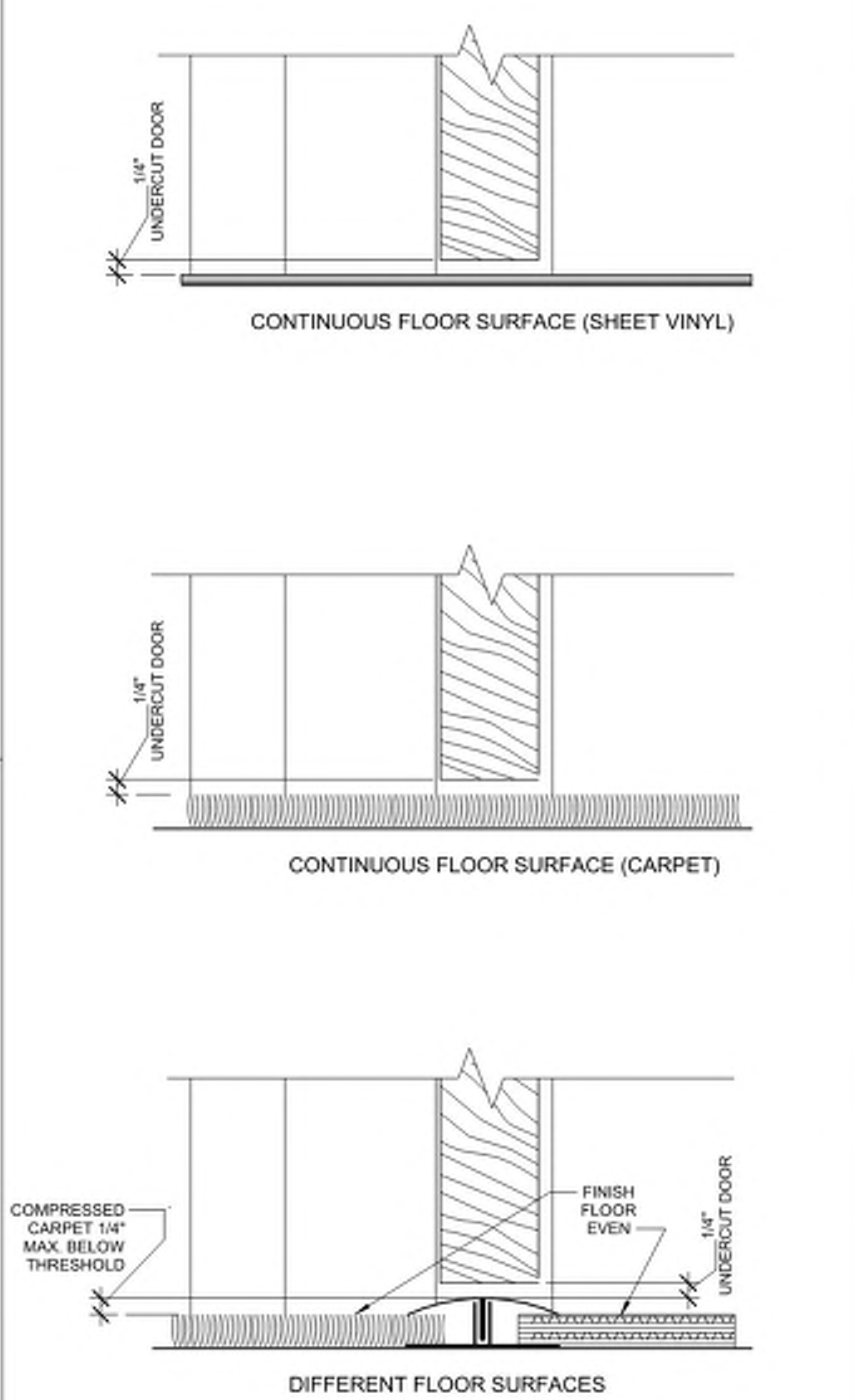
10 EXT. DOOR THRESHOLD IN SWING
3" = 1'-0"



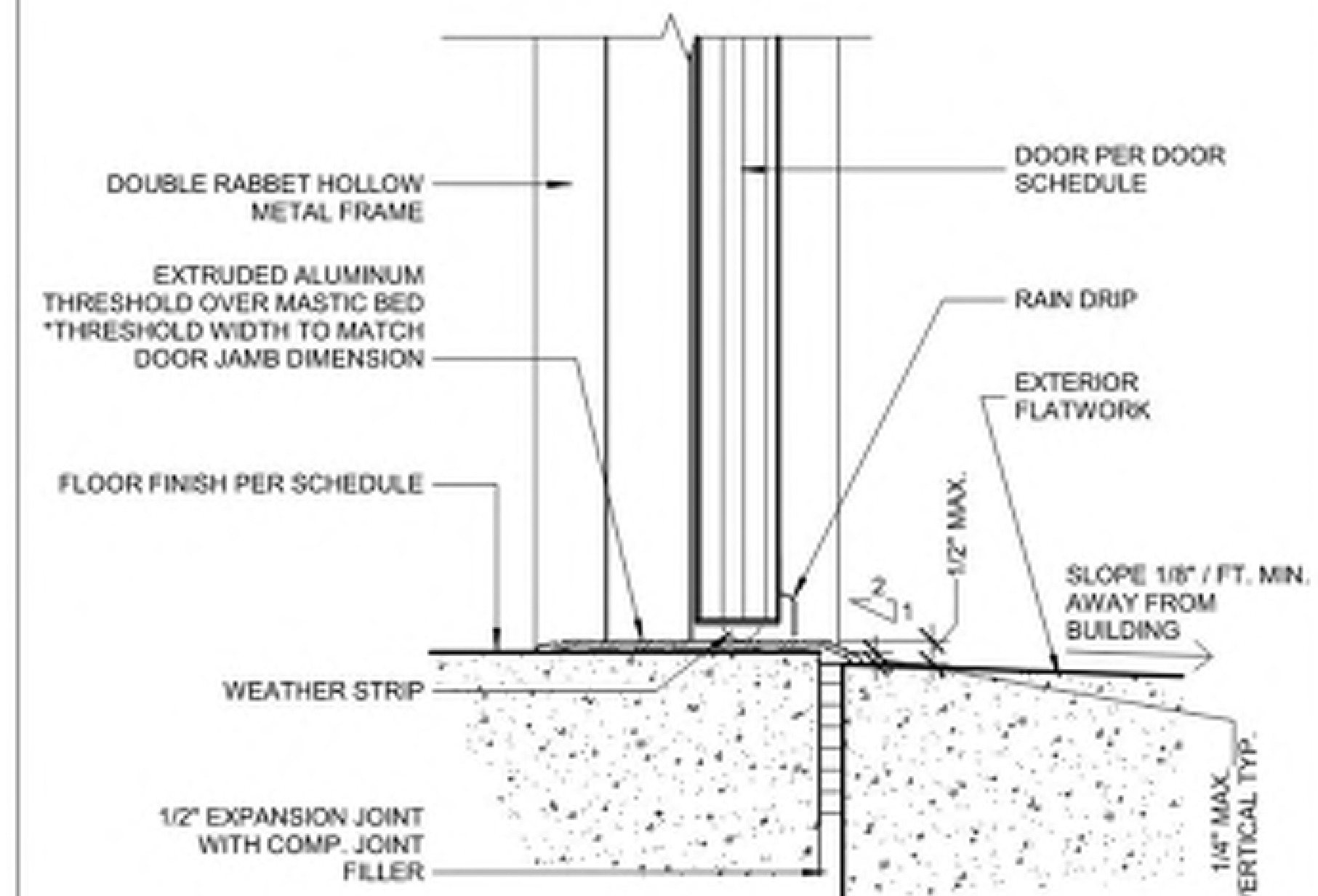
6 H.M. DR. JAMB @ EXT. STUCCO IN SW
3" = 1'-0"



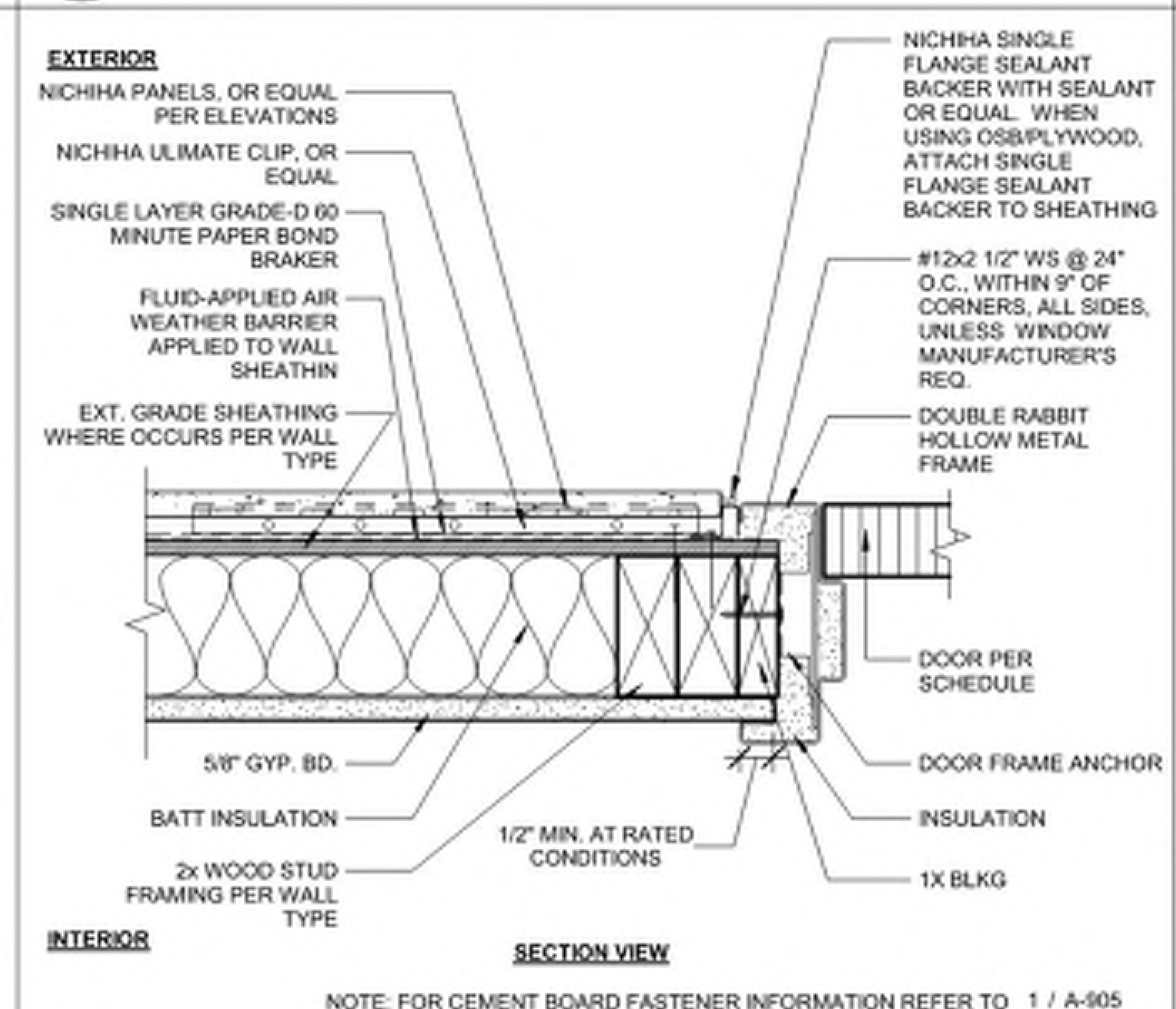
2 HL. MTL. DR. HEAD @ EXT. IN SWING
3" = 1'-0"



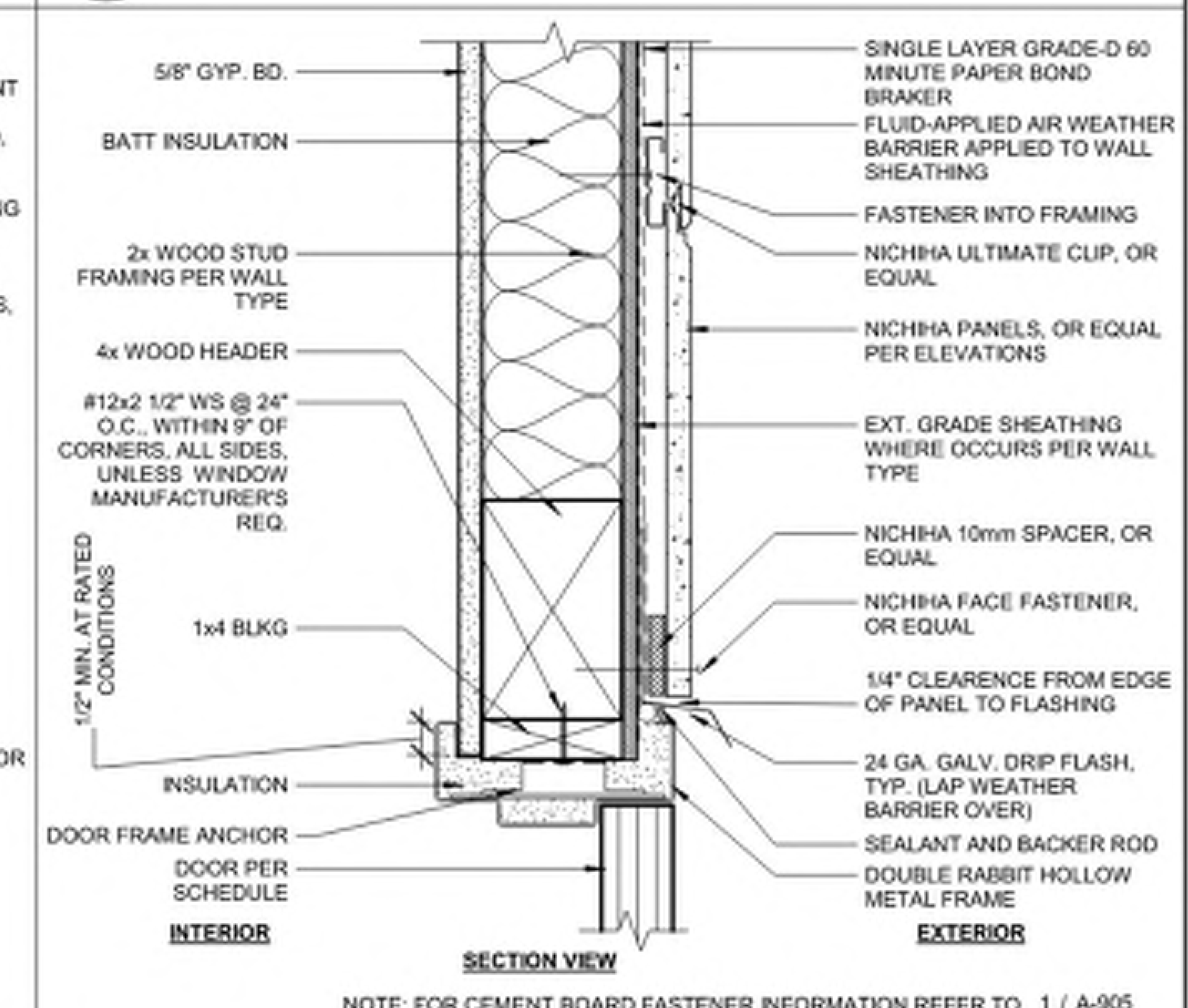
16 INTERIOR THRESHOLD
6" = 1'-0"



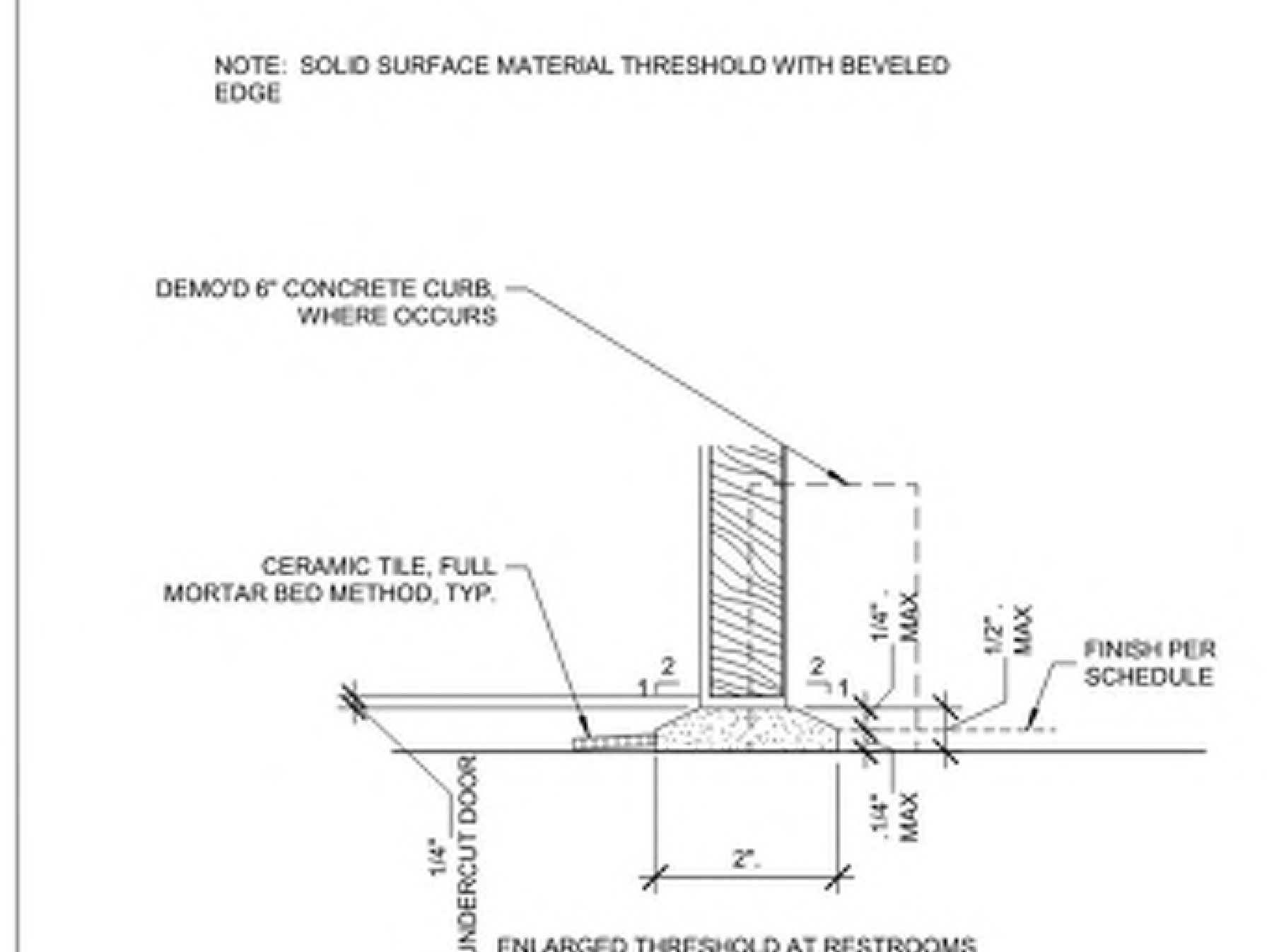
11 EXTERIOR DOOR THRESHOLD
3" = 1'-0"



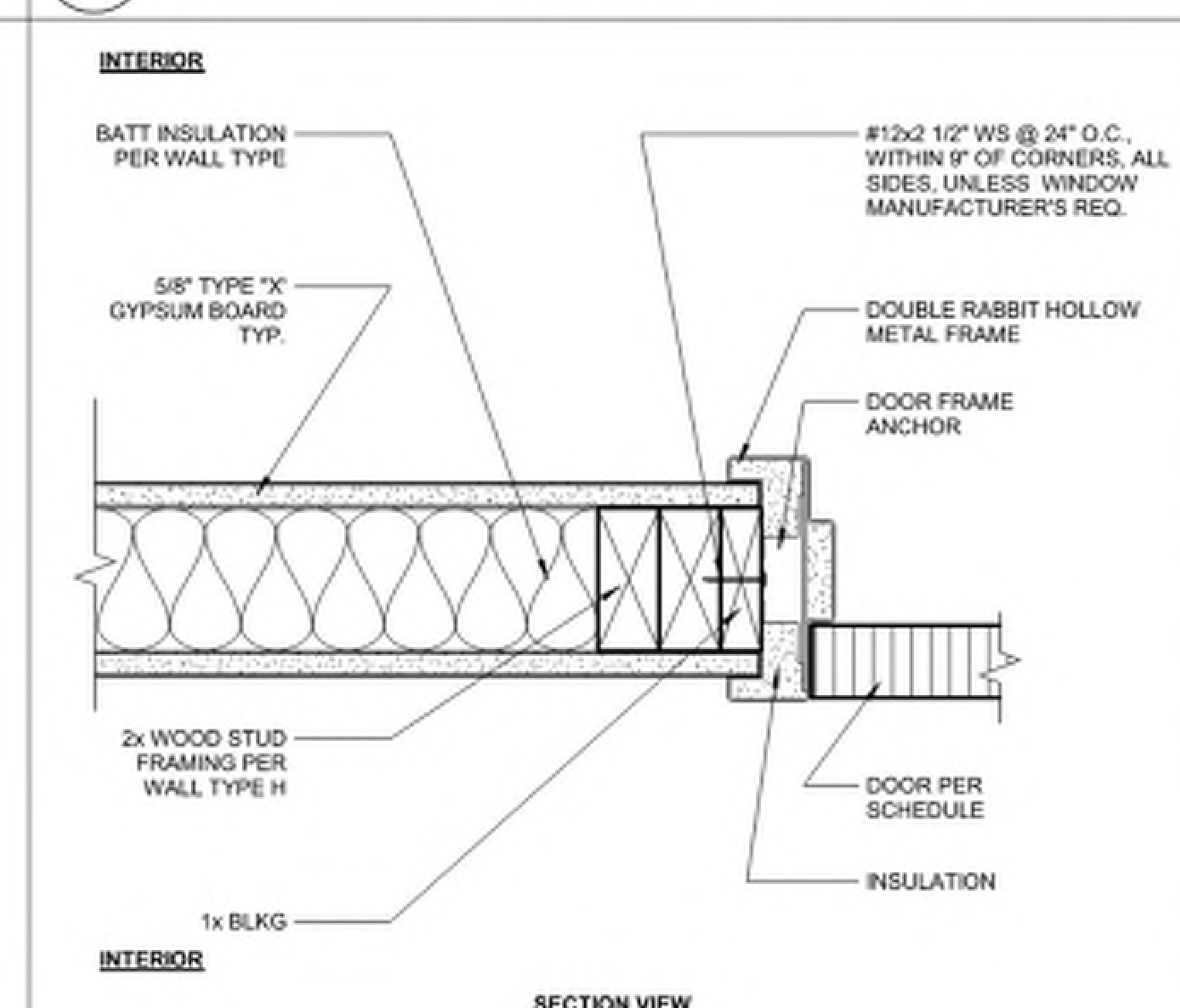
7 HL. METAL DOORJAMB @ CB WALL
3" = 1'-0"



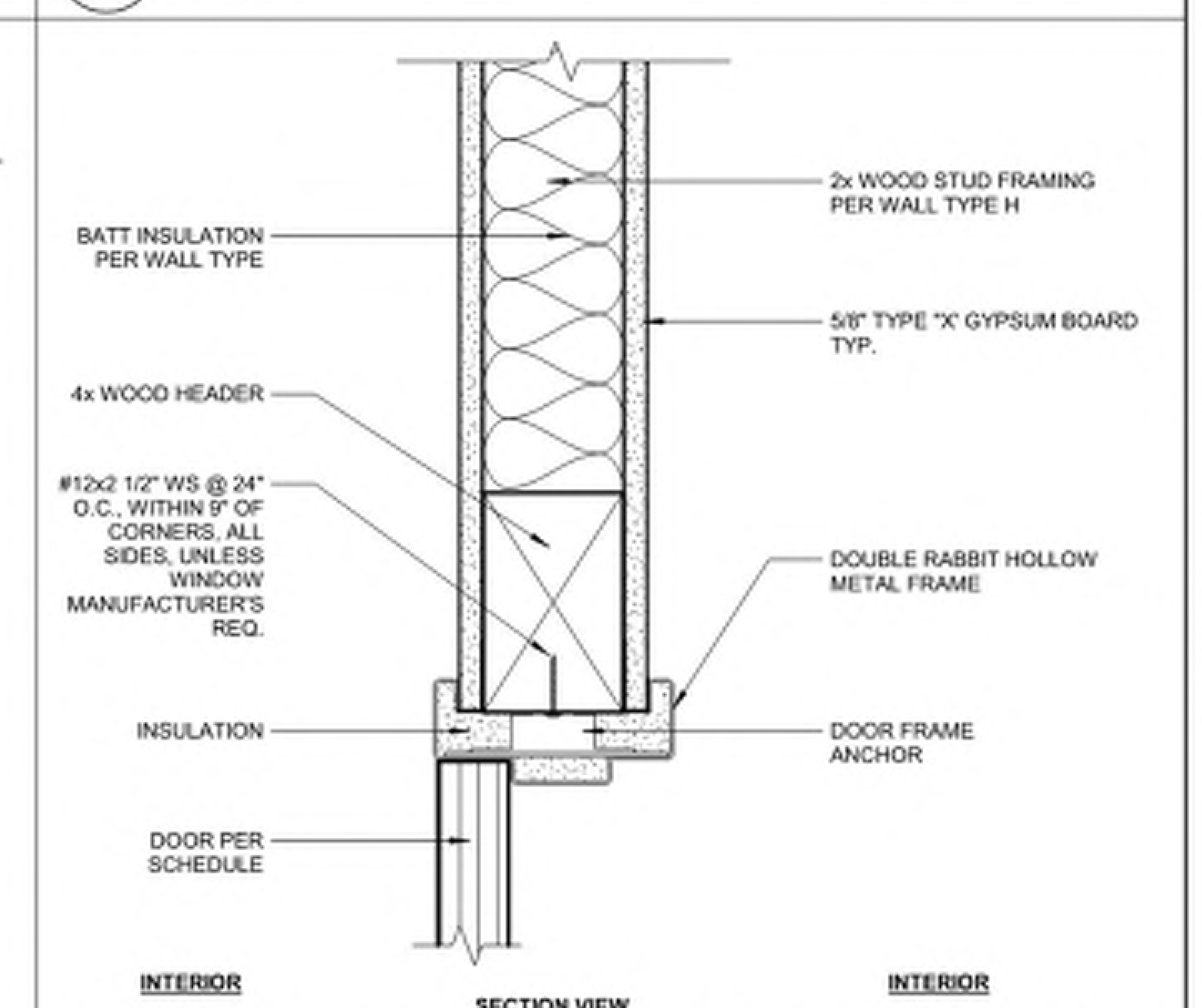
3 HL. METAL DOOR HEAD @ CB WALL
3" = 1'-0"



12 CERAMIC TILE THRESHOLD
3" = 1'-0"



8 HL. MTL. DR. JAMB @ INT. PARTITION
3" = 1'-0"



4 HL. MTL. DR. HEAD @ INT. PARTITION
3" = 1'-0"

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NO. C28080
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

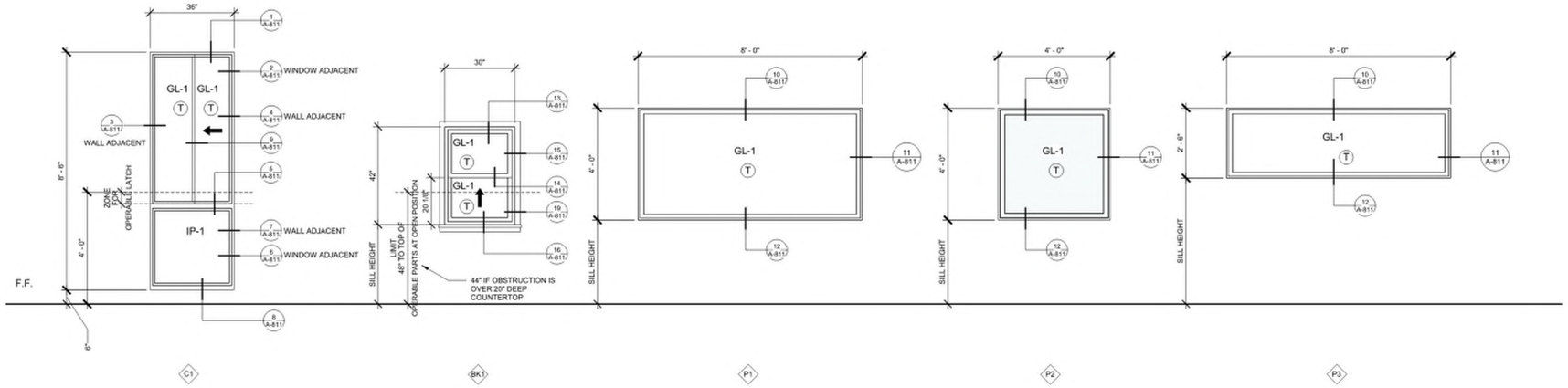
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

DOOR DETAILS

A-801

9/27/2022 9:28:12 AM

WINDOW TYPE LEGEND



WINDOW SCHEDULE - BUILDING C

TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	Sill Height	NOTES
C1	3' - 0"	8' - 6"	9' - 0"	0' - 6"	
C1	3' - 0"	8' - 6"	9' - 0"	0' - 6"	
C1	3' - 0"	8' - 6"	9' - 0"	0' - 6"	

WINDOW SCHEDULE - BUILDING P101

TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	Sill Height	Notes
P1	8' - 0"	4' - 0"	7' - 0"	3' - 0"	

WINDOW SCHEDULE - BOOKROOM

TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	Sill Height	NOTES
BK1	2' - 6"	3' - 6"	6' - 4"	2' - 10"	
BK1	2' - 6"	3' - 6"	6' - 4"	2' - 10"	

WINDOW SCHEDULE - BUILDING P102

TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	Sill Height	NOTES
P3	8' - 0"	2' - 6"	7' - 0"	4' - 6"	
P1	8' - 0"	4' - 0"	7' - 0"	3' - 0"	

WINDOW SCHEDULE - BUILDING P104

TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	Sill Height	NOTES
P2	4' - 0"	4' - 0"	7' - 0"	3' - 0"	
P2	4' - 0"	4' - 0"	7' - 0"	3' - 0"	
P3	3' - 0"	4' - 0"	7' - 0"	3' - 0"	
P3	3' - 0"	4' - 0"	7' - 0"	3' - 0"	

GENERAL NOTES

1. **11B-308.2 FORWARD REACH**
   A. 11B-308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE FINISH FLOOR OR GROUND.
   B. 11B-308.2.2 OBSTRUCTED HIGH REACH. WHERE THE FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH EXCEEDS 20 INCHES. THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM.
2. **11B-308.3 SIDE REACH**
   A. 11B-308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE FINISH FLOOR OR GROUND.
   B. 11B-308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACHTO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES FOR A REACH DEPTH OF 10 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES. THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.
3. ALL OPERABLE WINDOWS SHALL COMPLY WITH 11B-229.1 & 11B-309.4. NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. 5 POUNDS MAXIMUM FORCE TO OPERATE LATCHING MECHANISM AND 5 POUNDS MAXIMUM FORCE TO PUSH/PULL WINDOW OPEN OR CLOSED.
4. **11B-229.1 WINDOWS**
   WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY OCCUPANTS, AT LEAST ONE SHALL COMPLY WITH CBC SECTION 11B-309.

DOOR AND FRAME COLORS LISTED IN WINDOW SCHEDULE

GL - 1	REFER TO TITLE 24 SHEET M-005
P-1	SW 7008 ALABASTER
P-3	MATCH LA HABRA STUCCO FRENCH VANILLA X-55
ST-1	MATCH EISTING DOOR STAIN COLOR
FRAME	ALUMINUM
FRAME COLOR	FACTORY FINISH

ABBREVIATIONS

P	PAINT
HM	HOLLOW METAL
WD	WOOD
GL	GLAZING
IP	INSULATED PANEL
FF	FACTORY FINISH
ST	STAIN
(T)	TEMPERED

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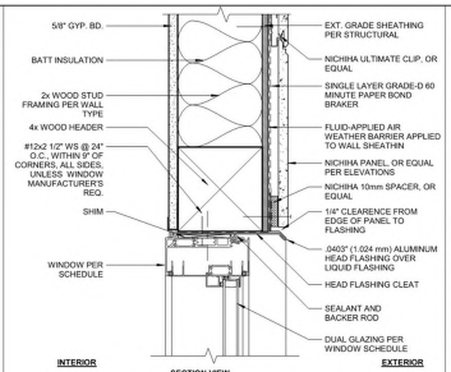
DRAWN BY: MEP
CHECKED BY: JM / AS

WINDOW SCHEDULES

A-810

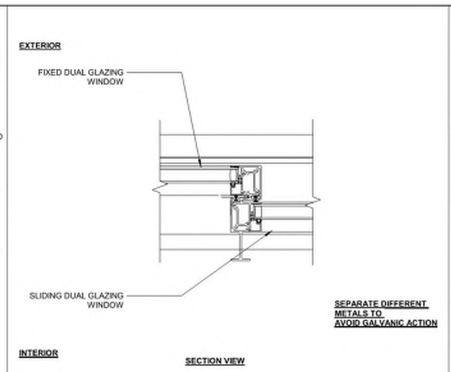
10/10/2022 1:57:49 PM



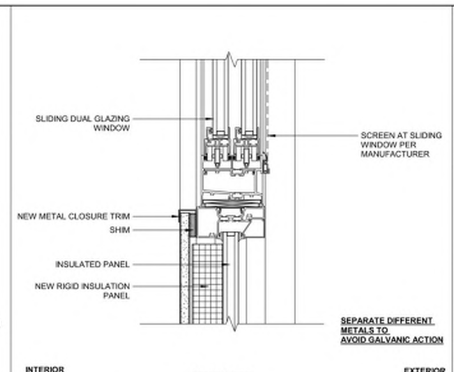
SECTION VIEW

NOTE: FOR CEMENT BOARD FASTENER INFORMATION REFER TO 1 / A-905

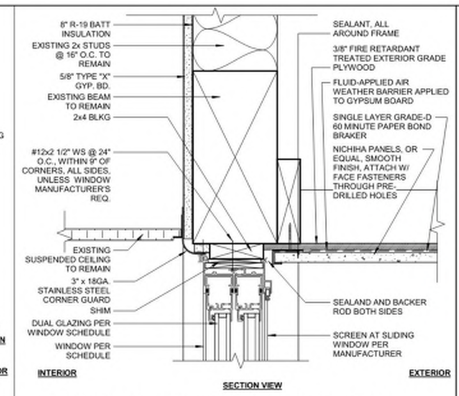
13 WINDOW HEAD @ BOOKROOM
3" = 1'-0"



9 INTERLOCK WINDOW MULLION
3" = 1'-0"

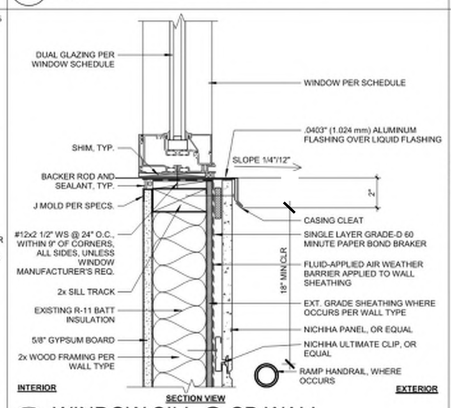


5 INTERMEDIATE WINDOW MULLION
3" = 1'-0"



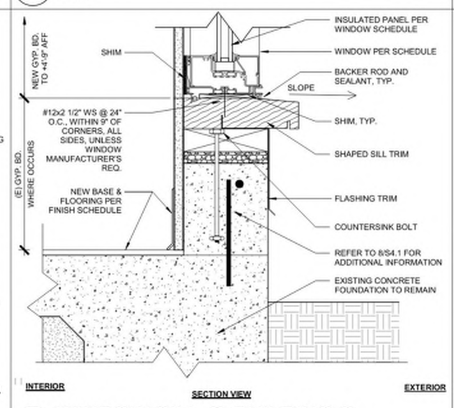
1 WINDOW HEAD @ BUILDING C
3" = 1'-0"

14 INTERMEDIATE WINDOW MULLION
3" = 1'-0"

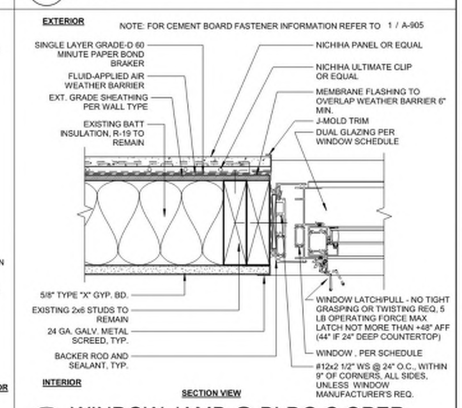


NOTE: FOR CEMENT BOARD FASTENER INFORMATION REFER TO 1 / A-905

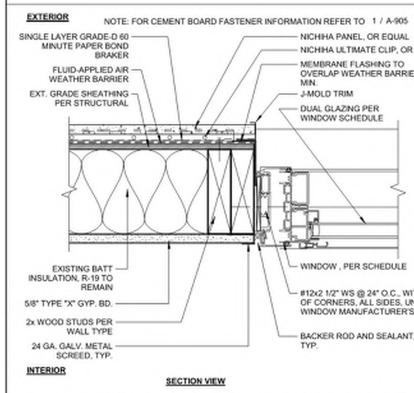
10 WINDOW HEAD @ CB WALL
3" = 1'-0"



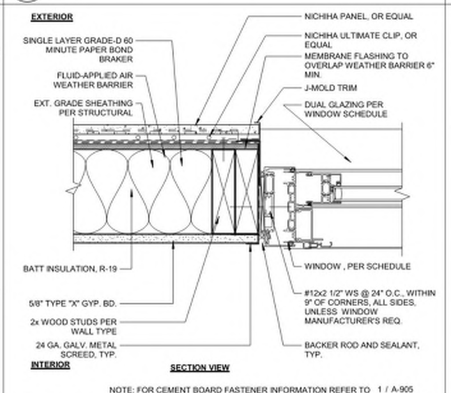
6 WINDOW PANEL COL JAMB @ BLDG C
3" = 1'-0"



2 WINDOW COL JAMB @ BLDG C OPER
3" = 1'-0"

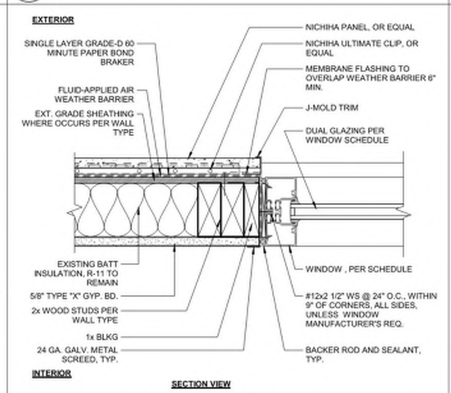


19 WINDOW JAMB @ BOOKROOM OPER
3" = 1'-0"

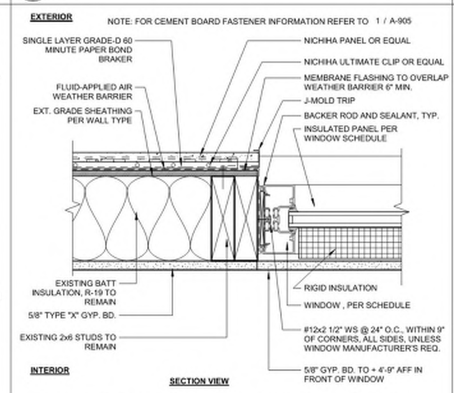


NOTE: FOR CEMENT BOARD FASTENER INFORMATION REFER TO 1 / A-905

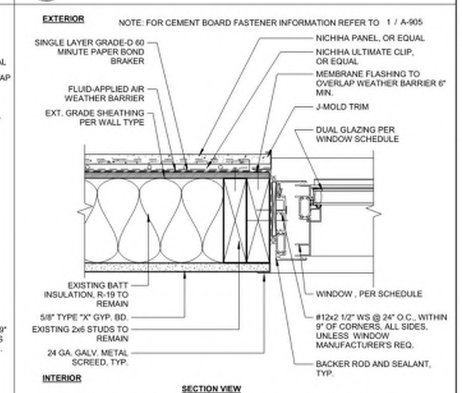
15 WINDOW JAMB @ BOOKROOM FIXED
3" = 1'-0"



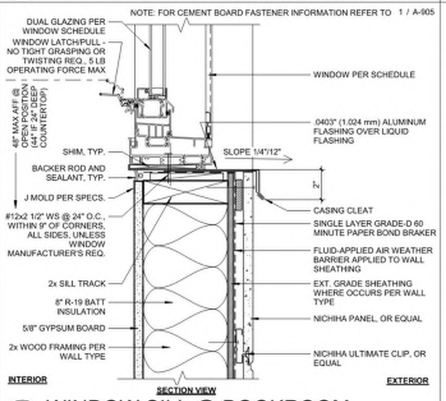
11 WINDOW JAMB @ CB WALL
3" = 1'-0"



7 WINDOW PANEL JAMB @ BLDG C
3" = 1'-0"



3 WINDOW JAMB @ BLDG C FIXED
3" = 1'-0"



16 WINDOW SILL @ BOOKROOM
3" = 1'-0"

12 WINDOW SILL @ CB WALL
3" = 1'-0"

8 WINDOW SILL @ BUILDING C
3" = 1'-0"

4 WINDOW JAMB @ BLDG C OPER
3" = 1'-0"

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1053 TENTH AVENUE
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LICENSED ARCHITECT TERRY V. STRATTON NO. C28089 REN. 08/31/23 STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

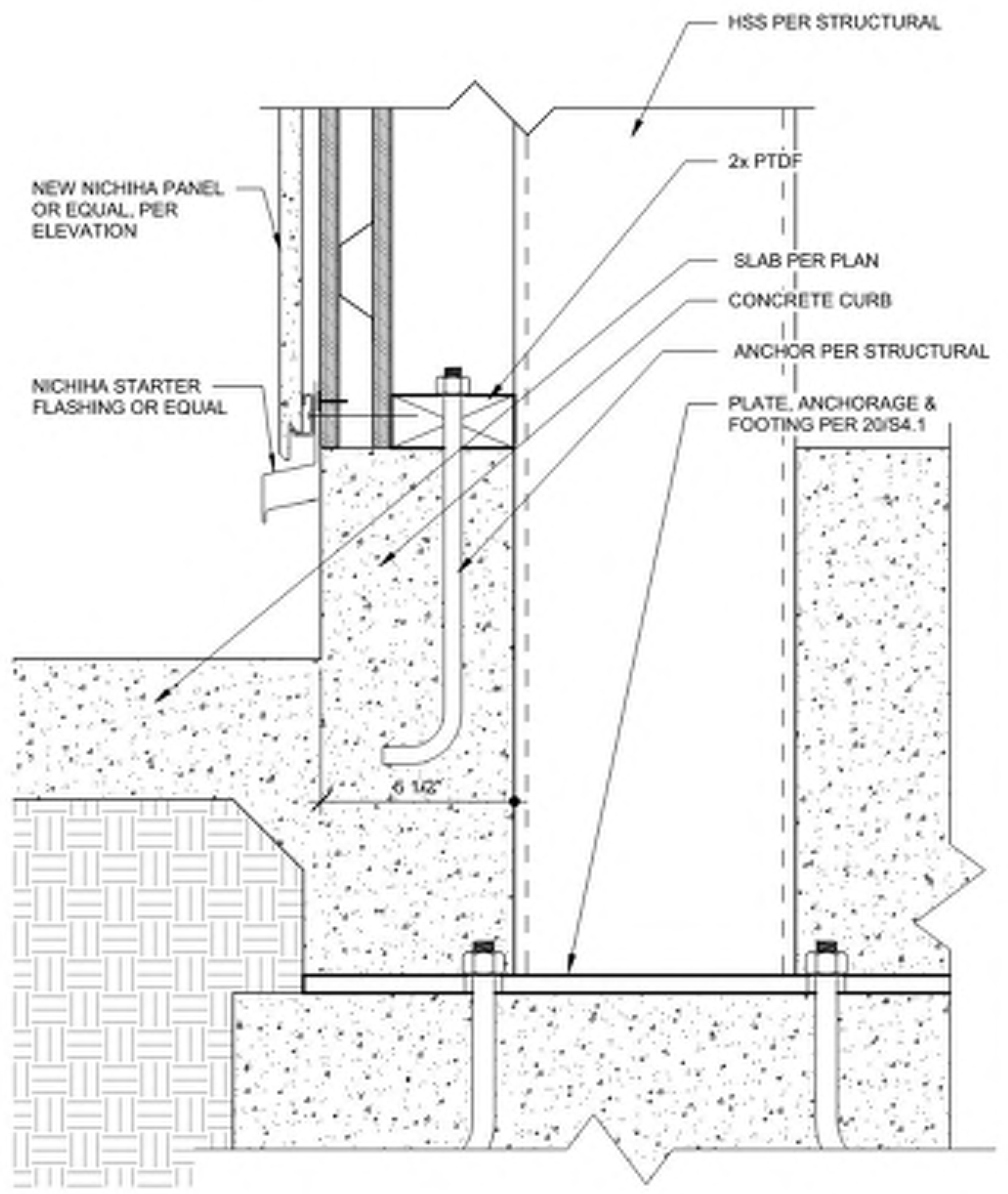
MARK	DATE	DESCRIPTION
-	04.29.2022	DSA SUBMITTAL
1	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

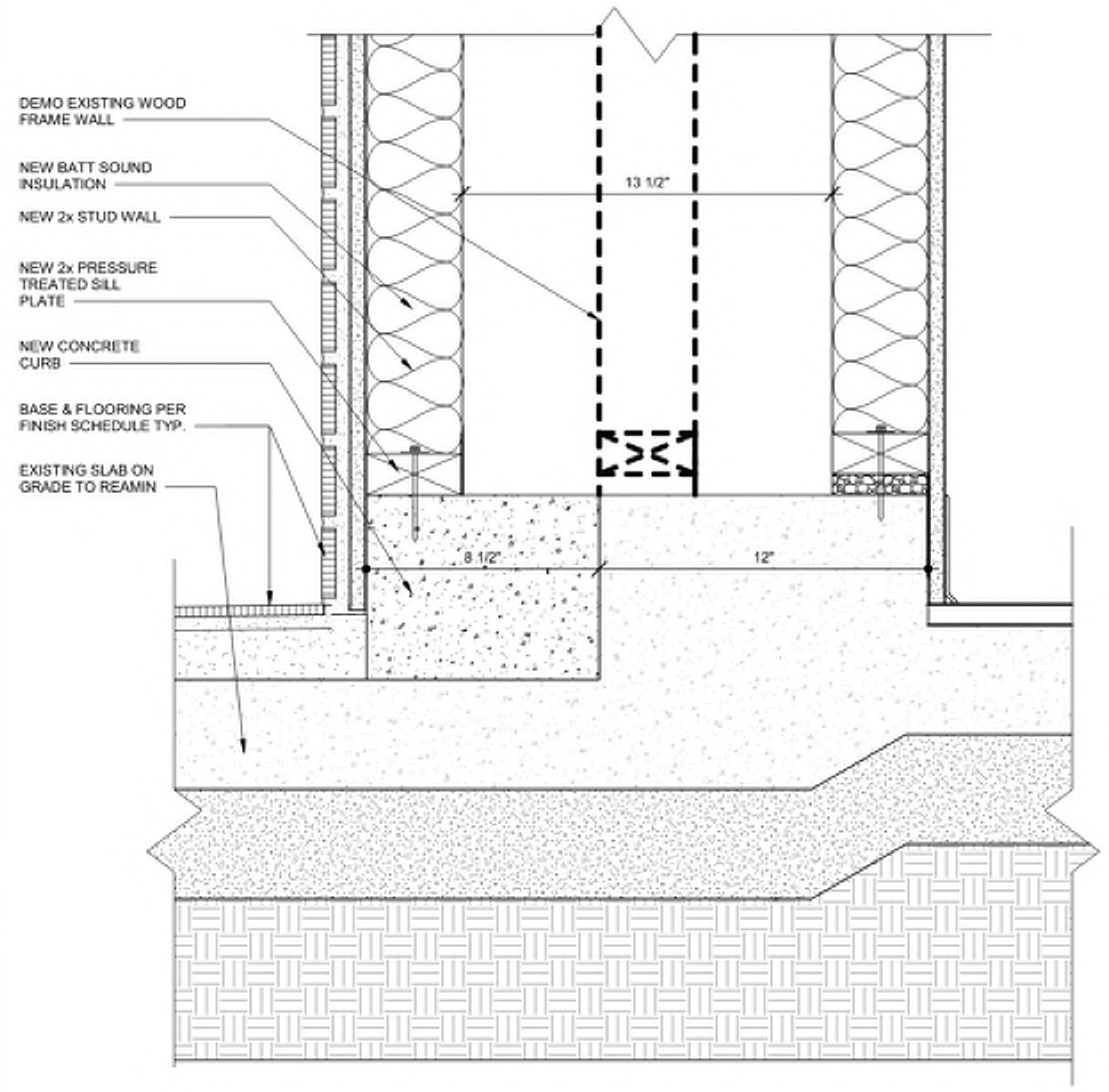
WINDOW DETAILS

A-811

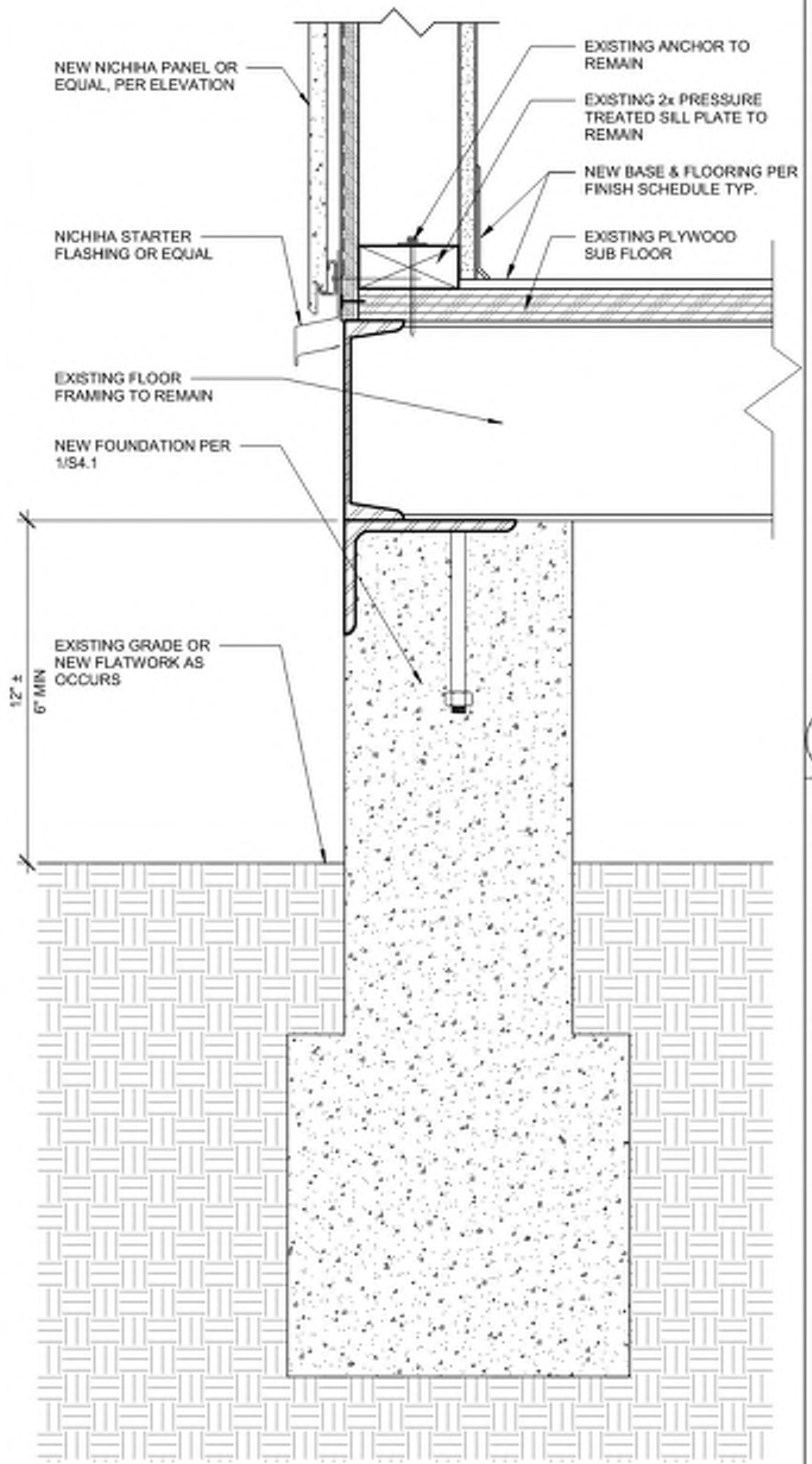
10/19/2022 1:57:56 PM



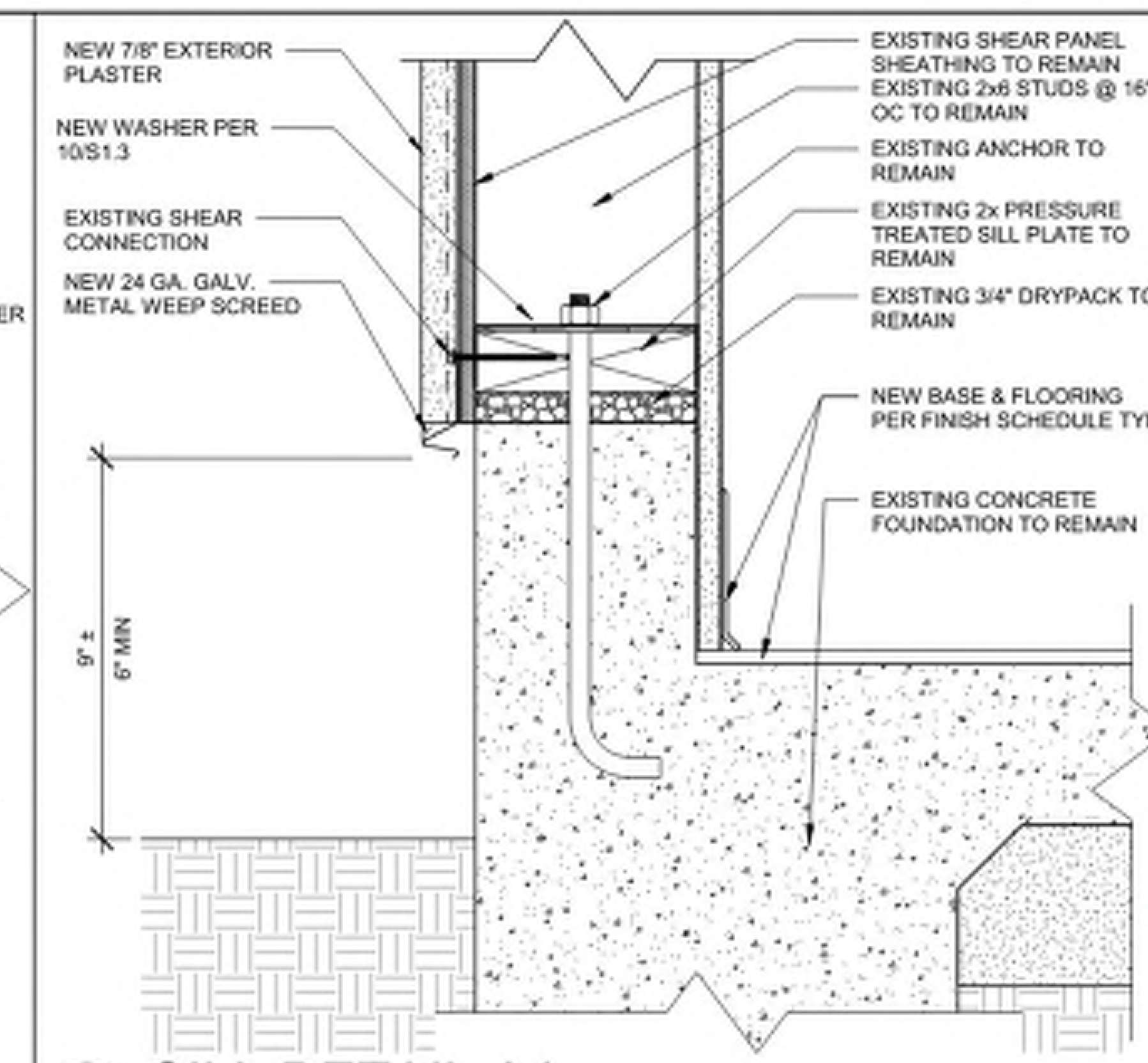
9 SILL DETAIL D1 - ADD ALTERNATE
3" = 1'-0"



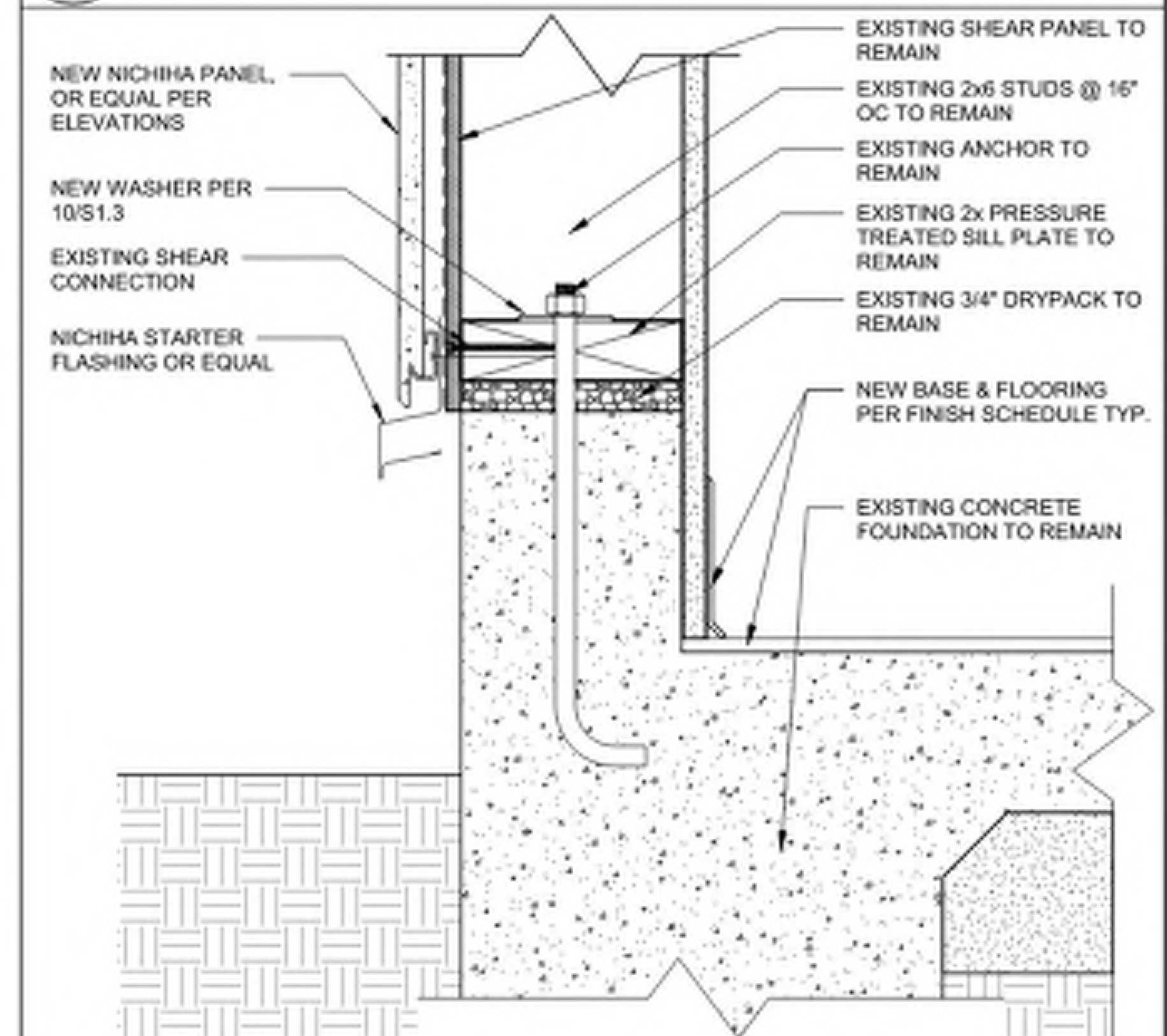
7 SILL DETAIL G2
3" = 1'-0"



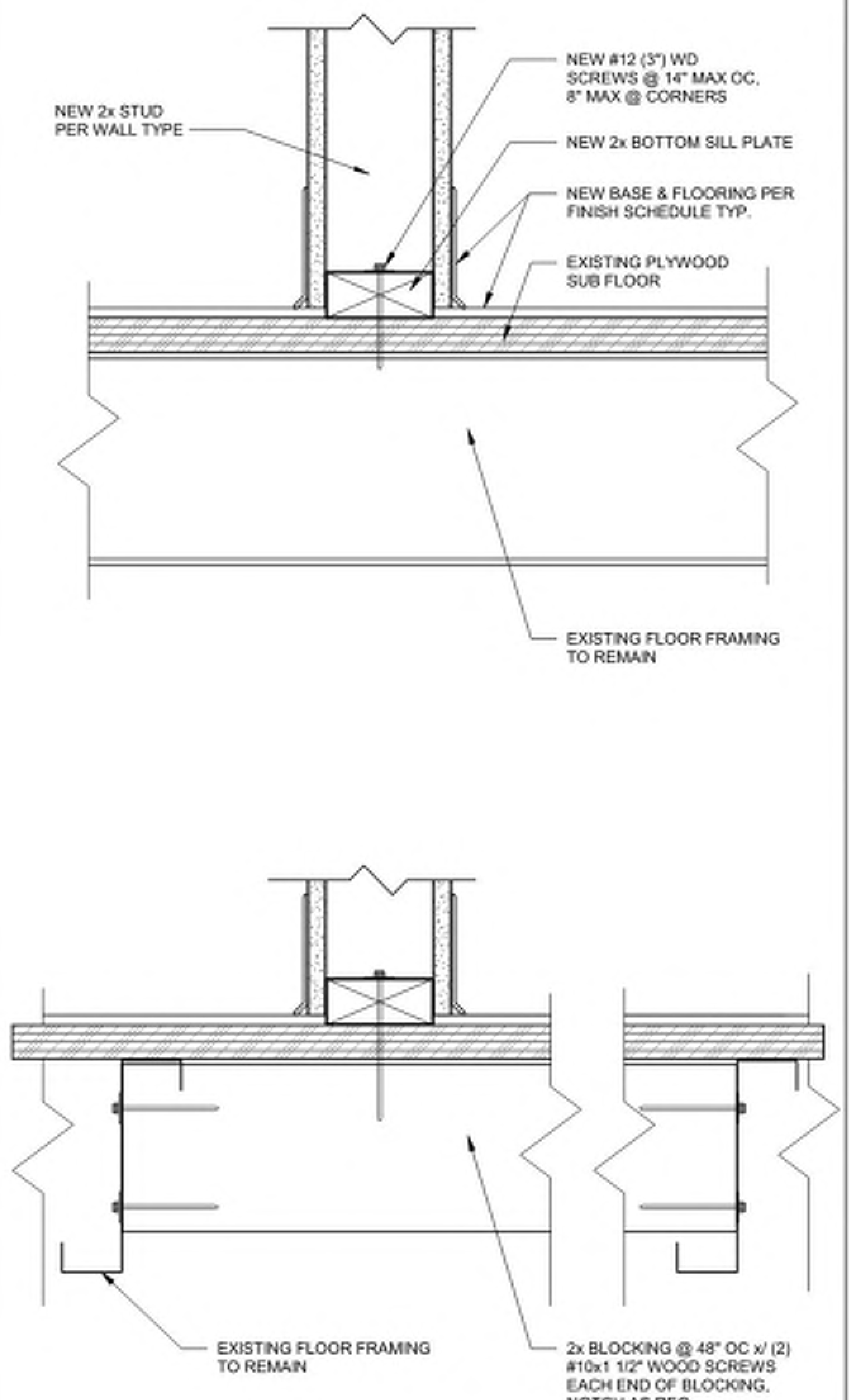
5 SILL DETAIL B2
3" = 1'-0"



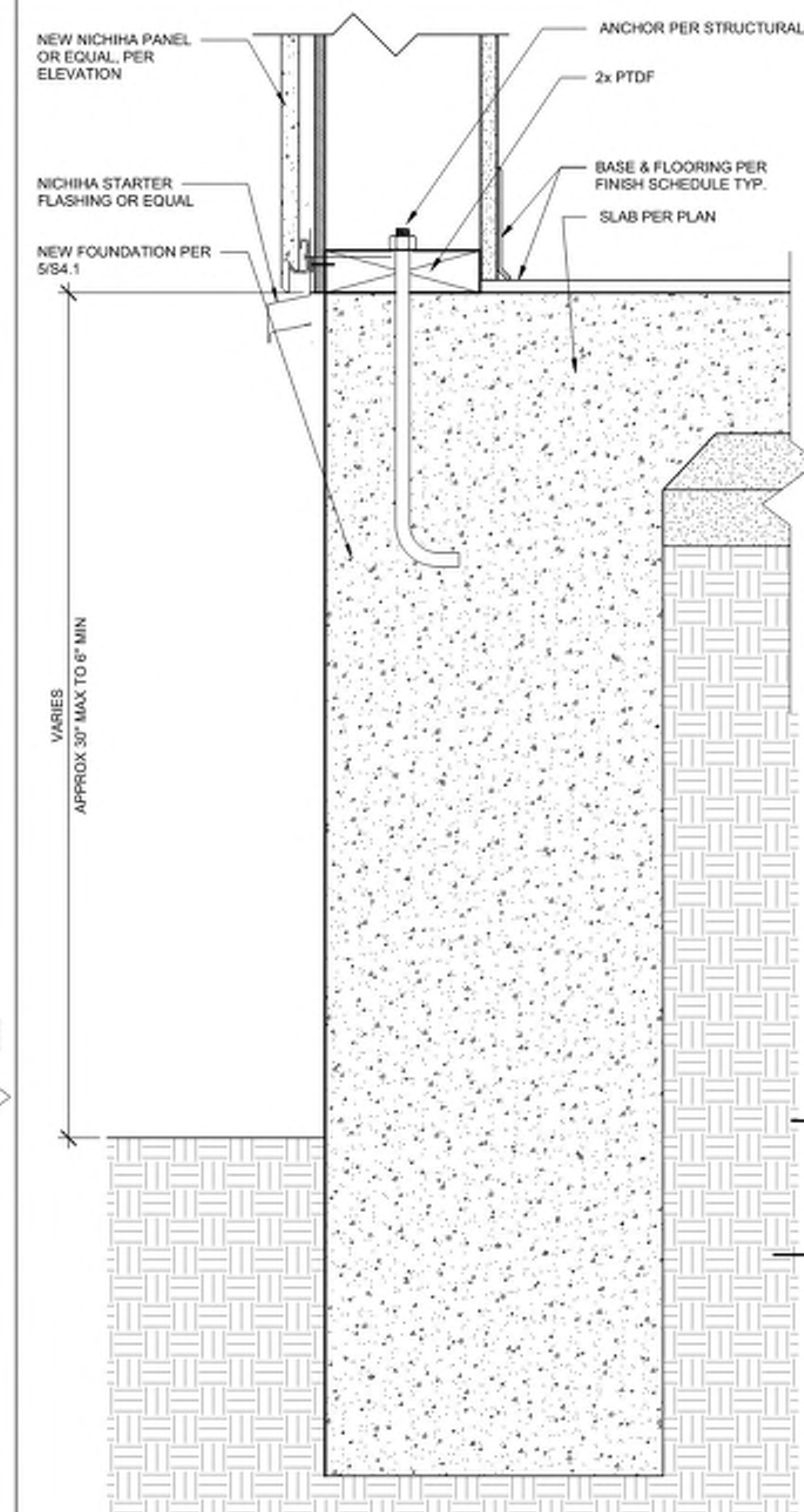
1 SILL DETAIL A1
3" = 1'-0"



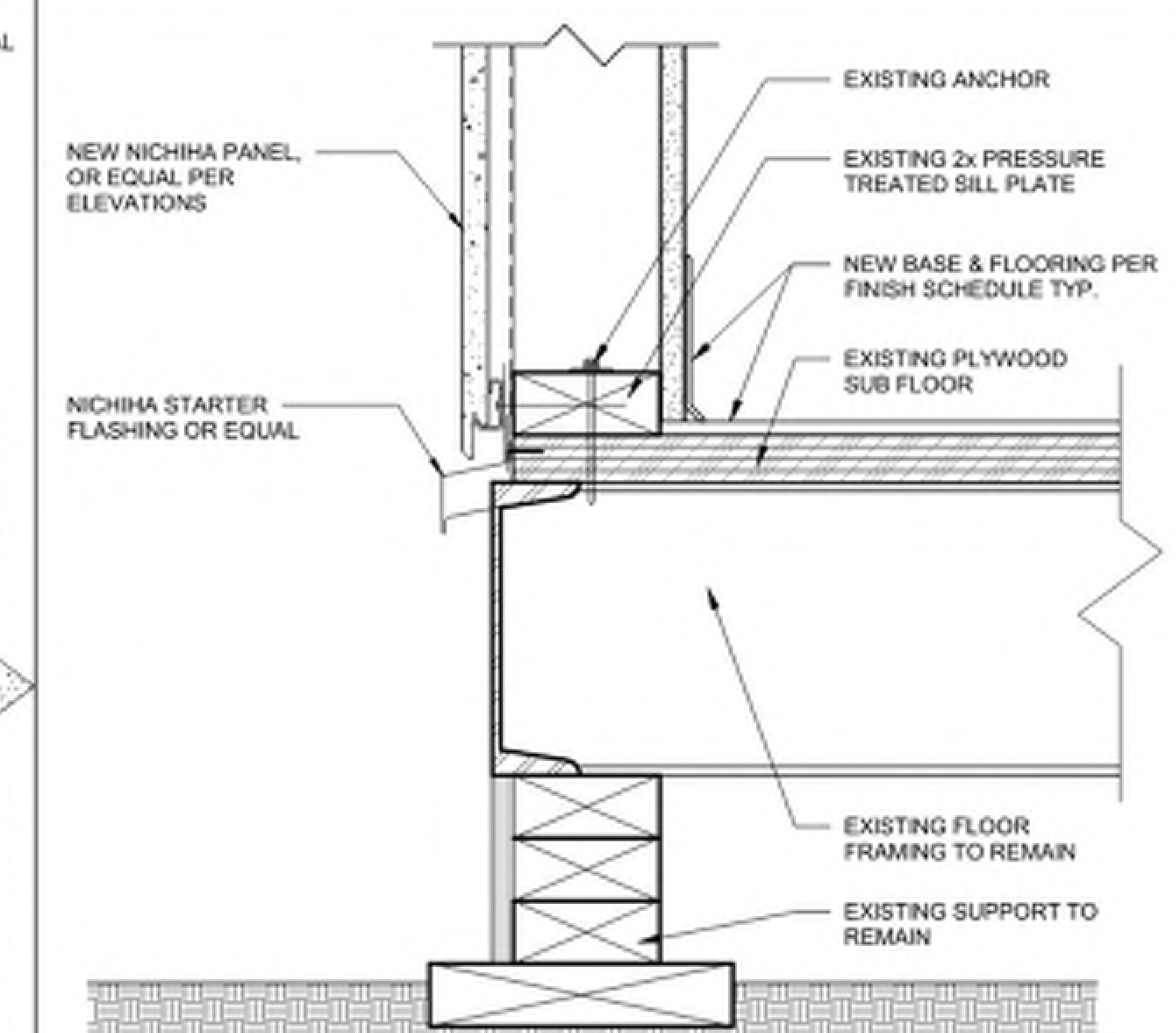
2 SILL DETAIL A2
3" = 1'-0"



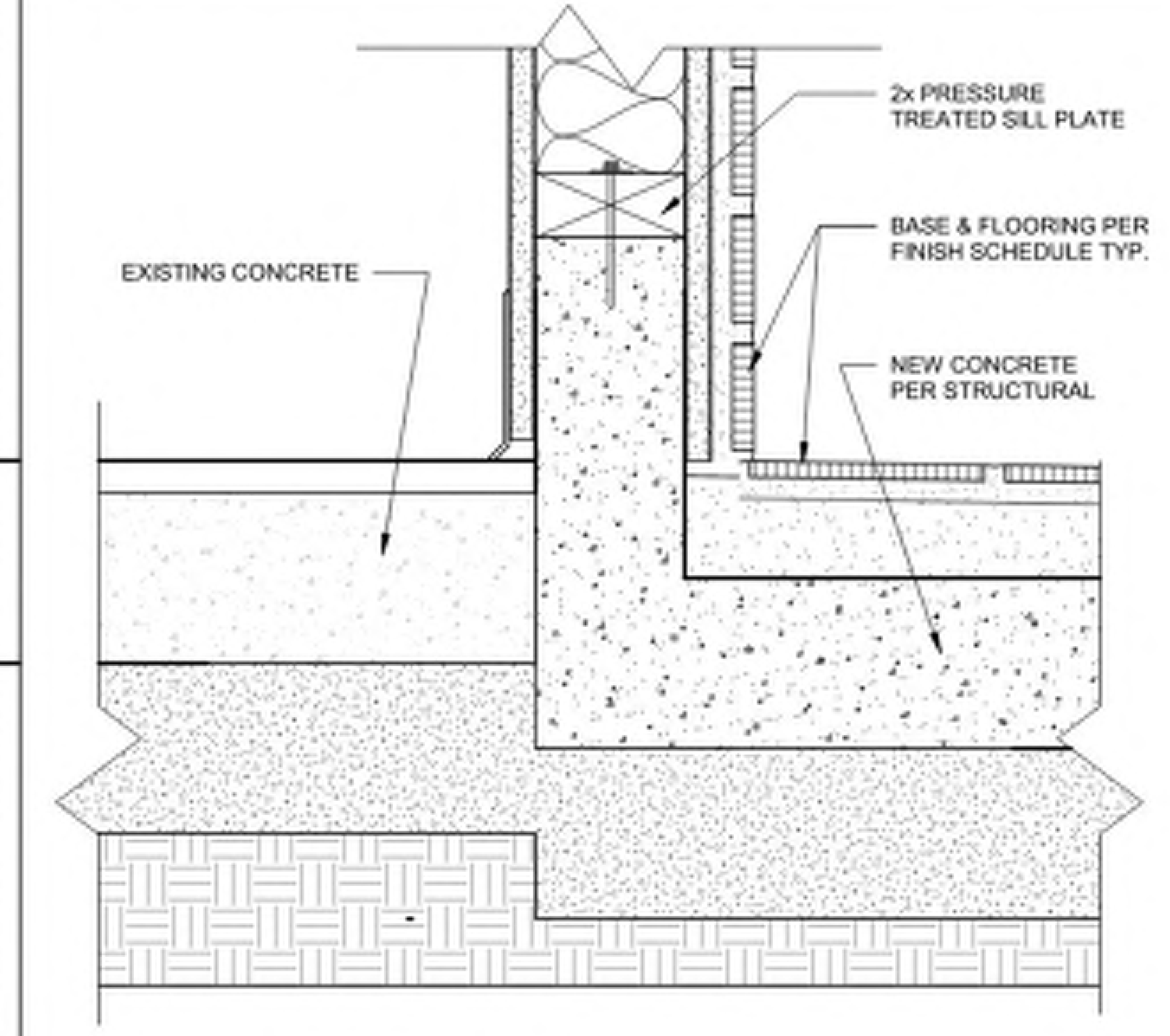
8 SILL DETAIL H
3" = 1'-0"



6 SILL DETAIL C
3" = 1'-0"



3 SILL DETAIL B1
3" = 1'-0"



4 SILL DETAIL G1
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

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Mountain Empire Unified School District

Project No.2017

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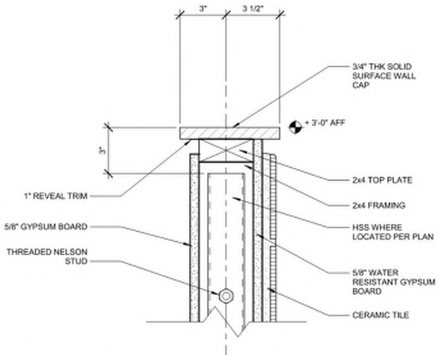
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

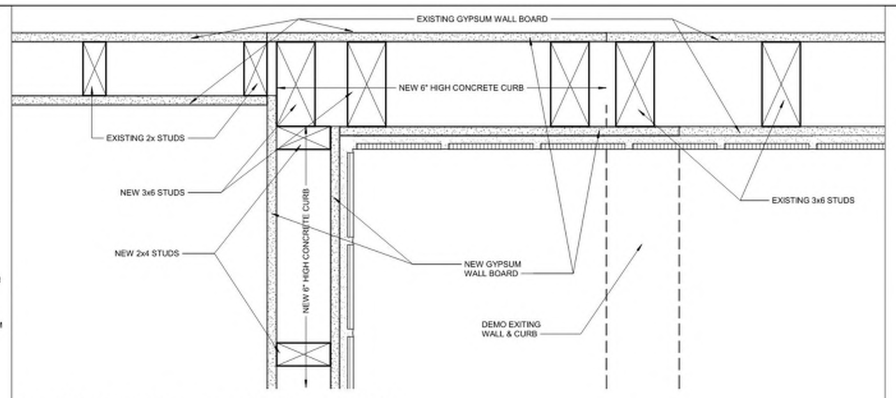
FOUNDATION DETAILS

A-900

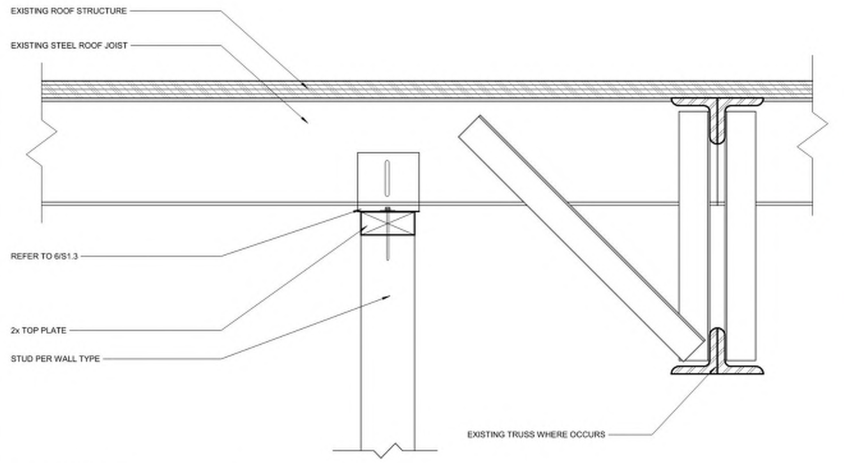
9/27/2022 9:28:29 AM

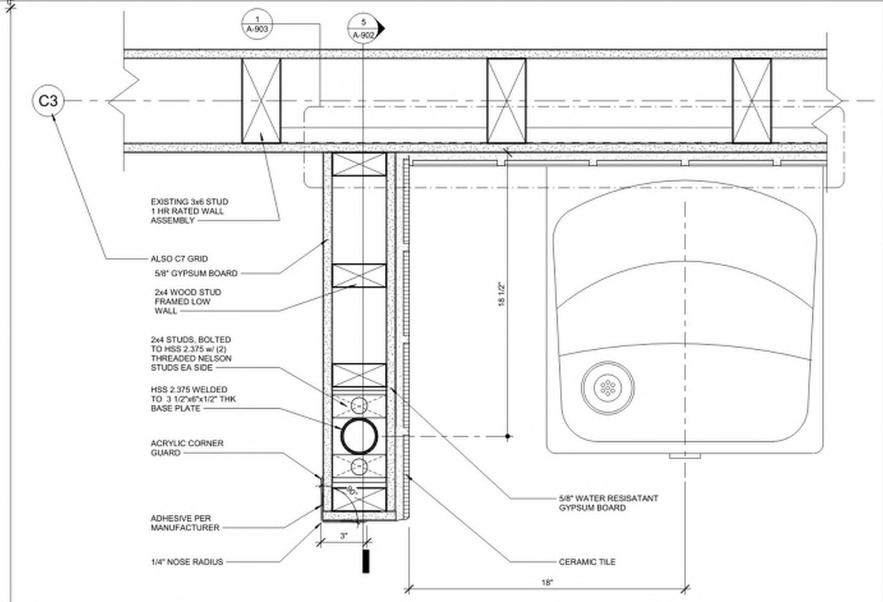


6 LOW WALL CAP DETAIL
3" = 1'-0"



3 FRAMING DETAIL PLAN - BLDG C
3" = 1'-0"





4 FRAMING DETAIL PLAN - LOW WALL BLDG C
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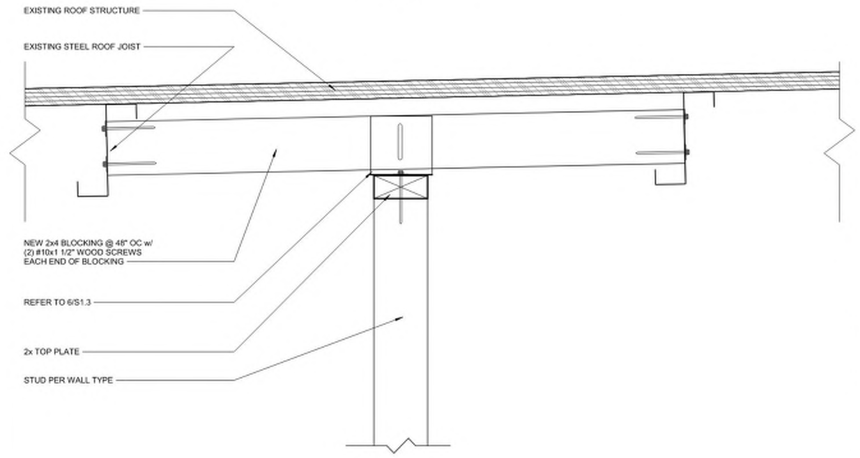
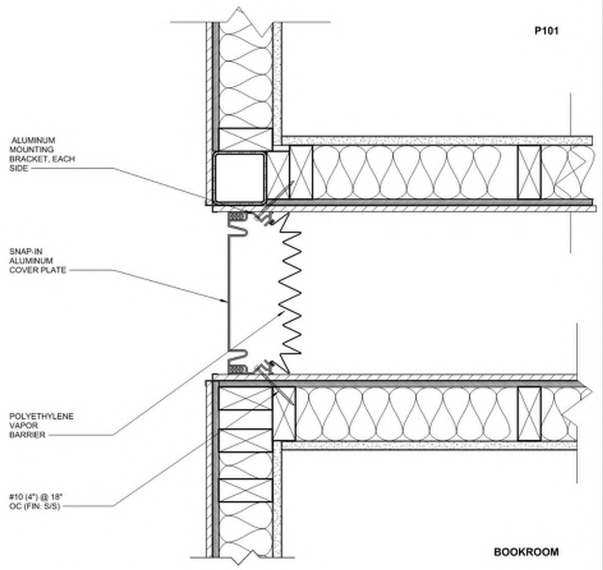
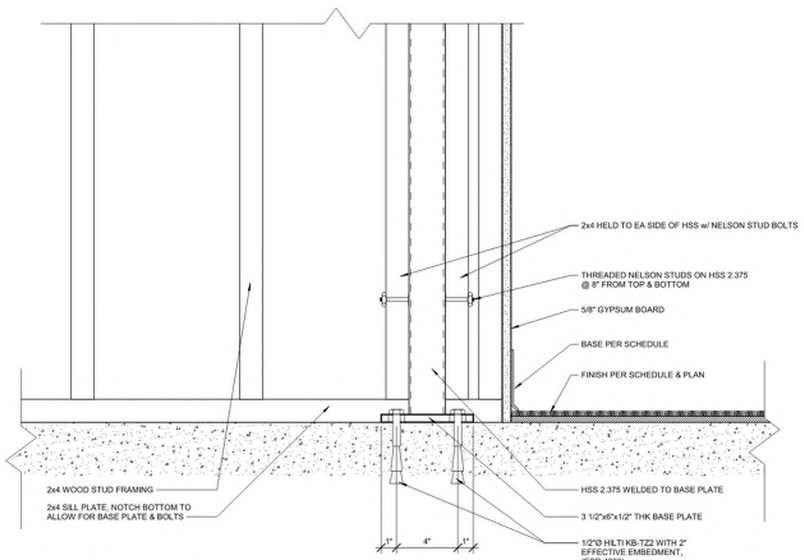


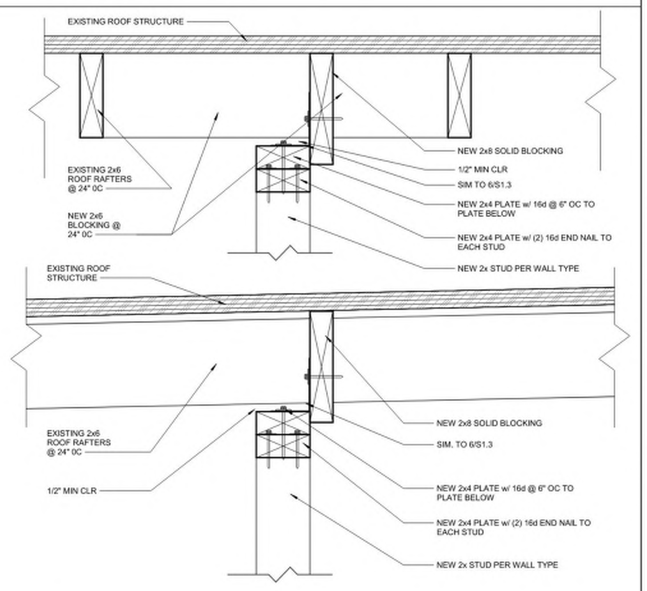
1 HEAD DETAIL H1
3" = 1'-0"



8 EXPANSION JOINT PLAN DETAIL
3" = 1'-0"



5 LOW WALL ACHORAGE DETAIL
3" = 1'-0"



2 HEAD DETAIL H2
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
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LICENSED ARCHITECT
JAMES V. STRETTON
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

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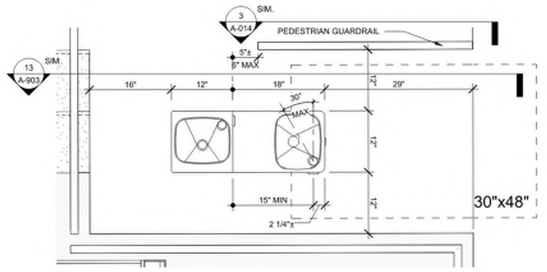
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

FRAMING DETAILS

A-902

9/27/2022 9:28:32 AM

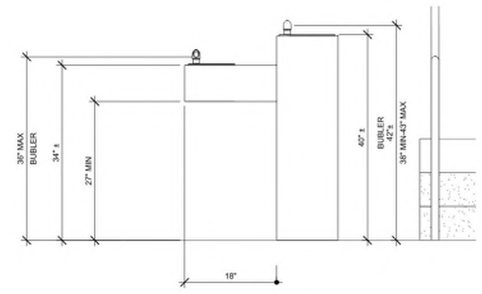


NOTES:

1. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4" (102mm) HIGH AND A MINIMUM AND SHALL BE LOCATED 5"(127mm) MAXIMUM FROM FRONT OF THE UNIT.

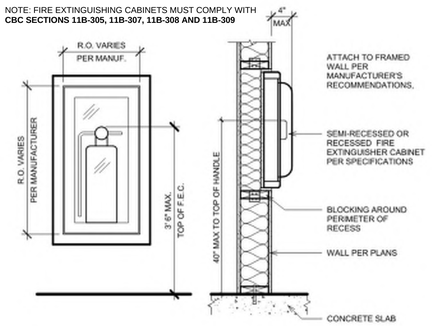
2. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT OF THE UNIT.
   A: WHERE SPOUTS ARE LOCATED LESS THAN 3" (76mm) OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30° MAXIMUM.
   B: WHERE SPOUTS ARE LOCATED BETWEEN 3" (76mm) AND 5" (127mm) MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15° MAXIMUM.

12 DETAIL PLAN - PEDESTAL DRINKING FOUNTAIN
1" = 1'-0"

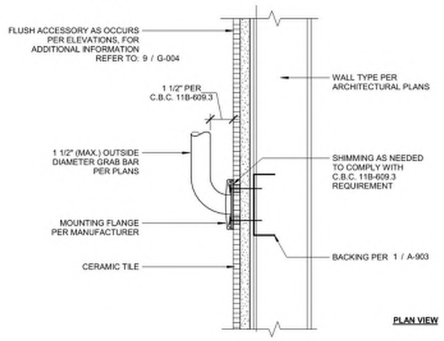


13 DETAIL ELEVATION - PEDESTAL DRINKING FOUNTAIN
1" = 1'-0"

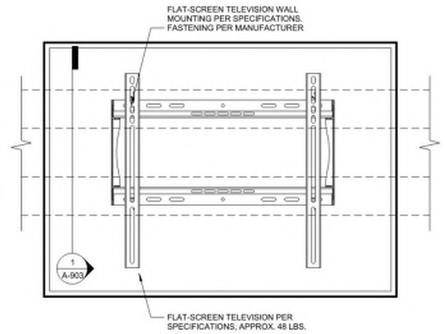
NOTE: FIRE EXTINGUISHING CABINETS MUST COMPLY WITH **CBC SECTIONS 11B-305, 11B-307, 11B-308 AND 11B-309**



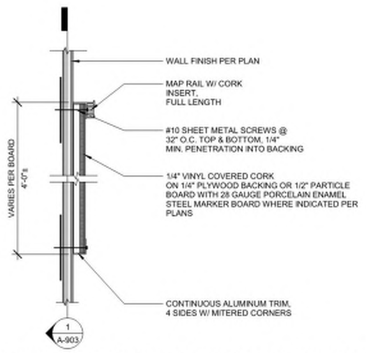
8 FIRE EXTINGUISHER
1" = 1'-0"



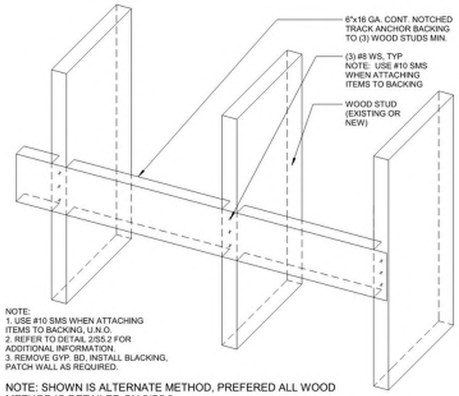
9 GRAB BAR CLEARANCE REQUIREMENT
3" = 1'-0"



4 WALL MOUNTED FLAT-SCREEN TELEVISION
N.T.S.



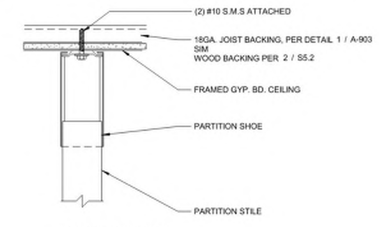
5 TACKBOARD MOUNTING CONNECTION
3" = 1'-0"



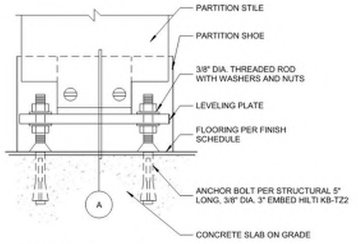
NOTE:
1. USE #10 SMS WHEN ATTACHING ITEMS TO BACKING, U.N.O.
2. REFER TO DETAIL 2/S5.2 FOR ADDITIONAL INFORMATION.
3. REMOVE GYP. BD, INSTALL BLACKING, PATCH WALL AS REQUIRED.

NOTE: SHOWN IS ALTERNATE METHOD, PREFERED ALL WOOD METHOD IS DETAILED ON 2/S5.2.

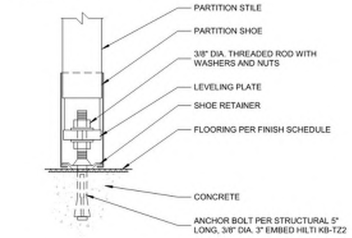
1 BACKING AT (E) WOOD STUDS
N.T.S.



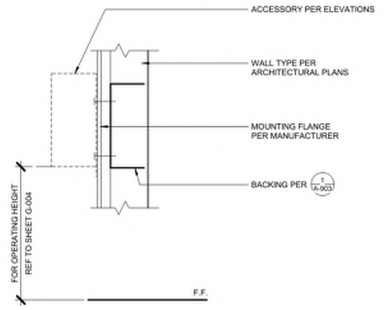
OPTIONAL TOP MOUNTING



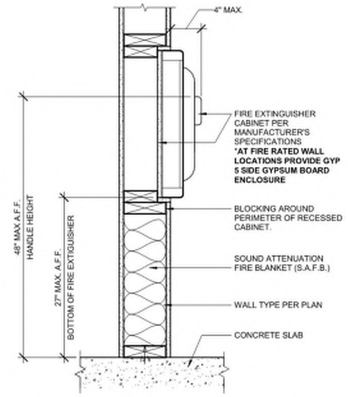
FLOOR MOUNTED PARTITION B



FLOOR MOUNTED PARTITION SECTION A

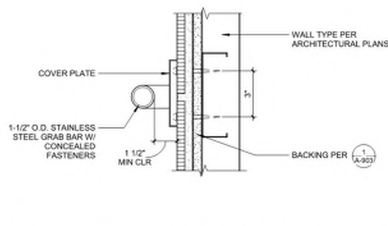


10 ACCESSORY MOUNTING DETAIL
3" = 1'-0"

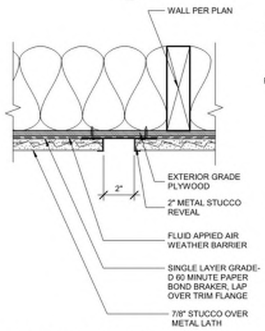


6 SEMI-RECESSED FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"

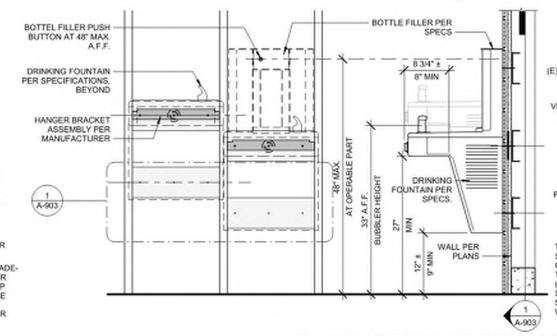
2 FLOOR MTD. TOILET PARTITION
N.T.S.



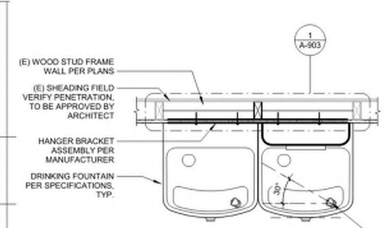
11 GRAB BAR CONNECTION @ STUD WALL
3" = 1'-0"



7 STUCCO REVEAL
3" = 1'-0"



3 MOUNTING AT DRINKING FOUNTAIN
1" = 1'-0"



THE SPOUT SHALL PROVIDE A FLOW OF WATER 4" (102mm) HIGH MIN. AND SHALL BE LOCATED 5" (127mm) MAX. FROM FRONT OF UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELETIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED < 3" (76mm) OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STRAM SHALL BE 30° MAX. WHERE SPOUTS ARE LOCATED BETWEEN 3" (76mm) & 5" (127mm) MAX FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15° MAX.

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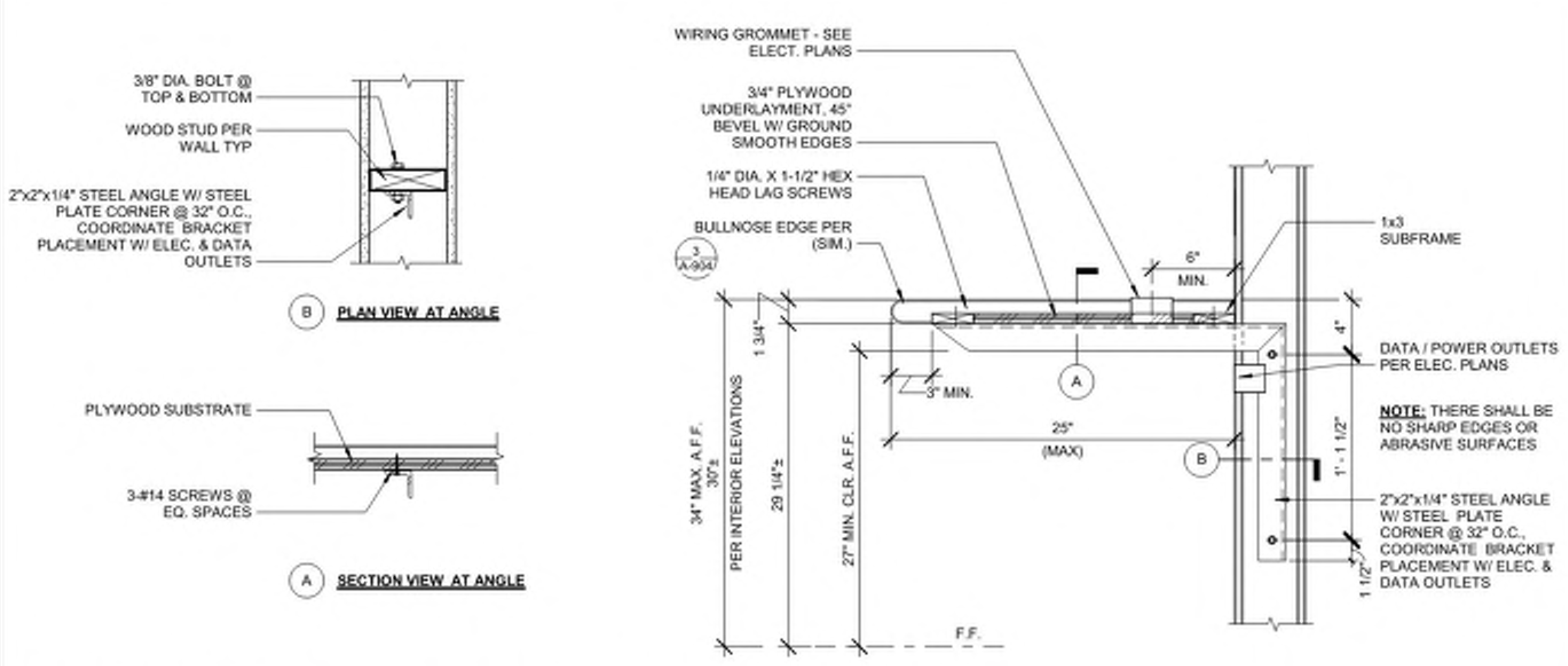
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

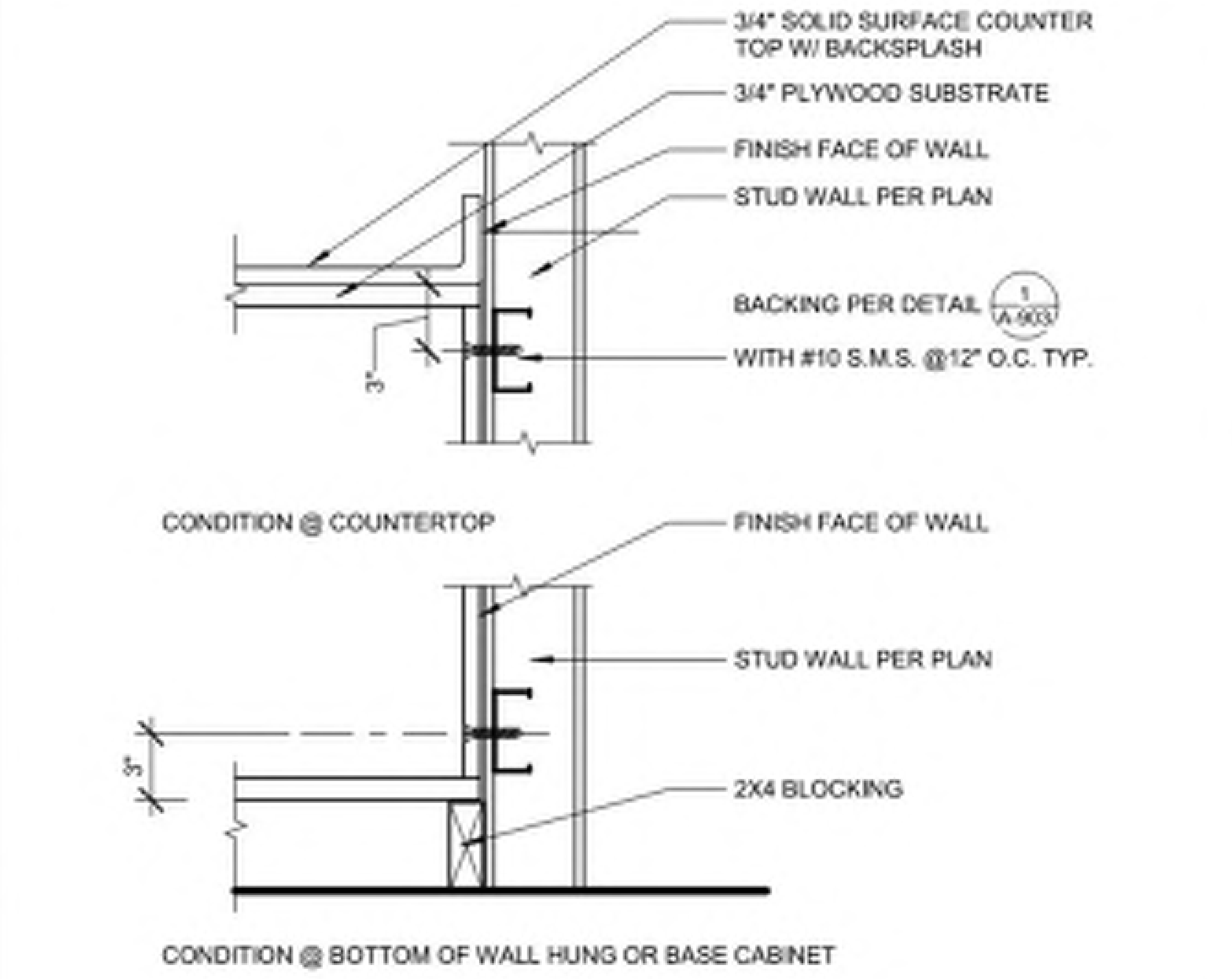
DETAILS

A-903

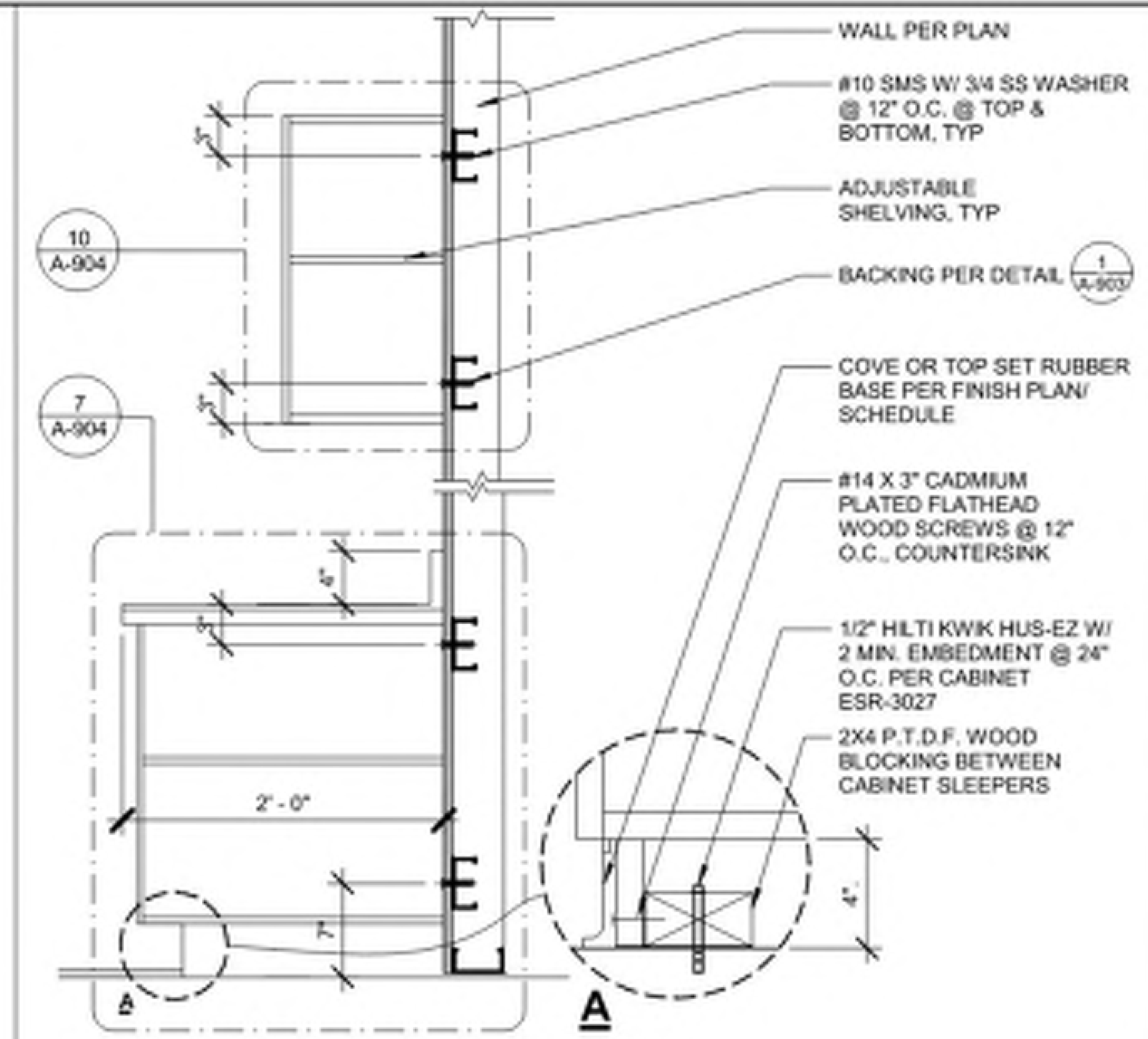
10/10/2022 1:56:03 PM



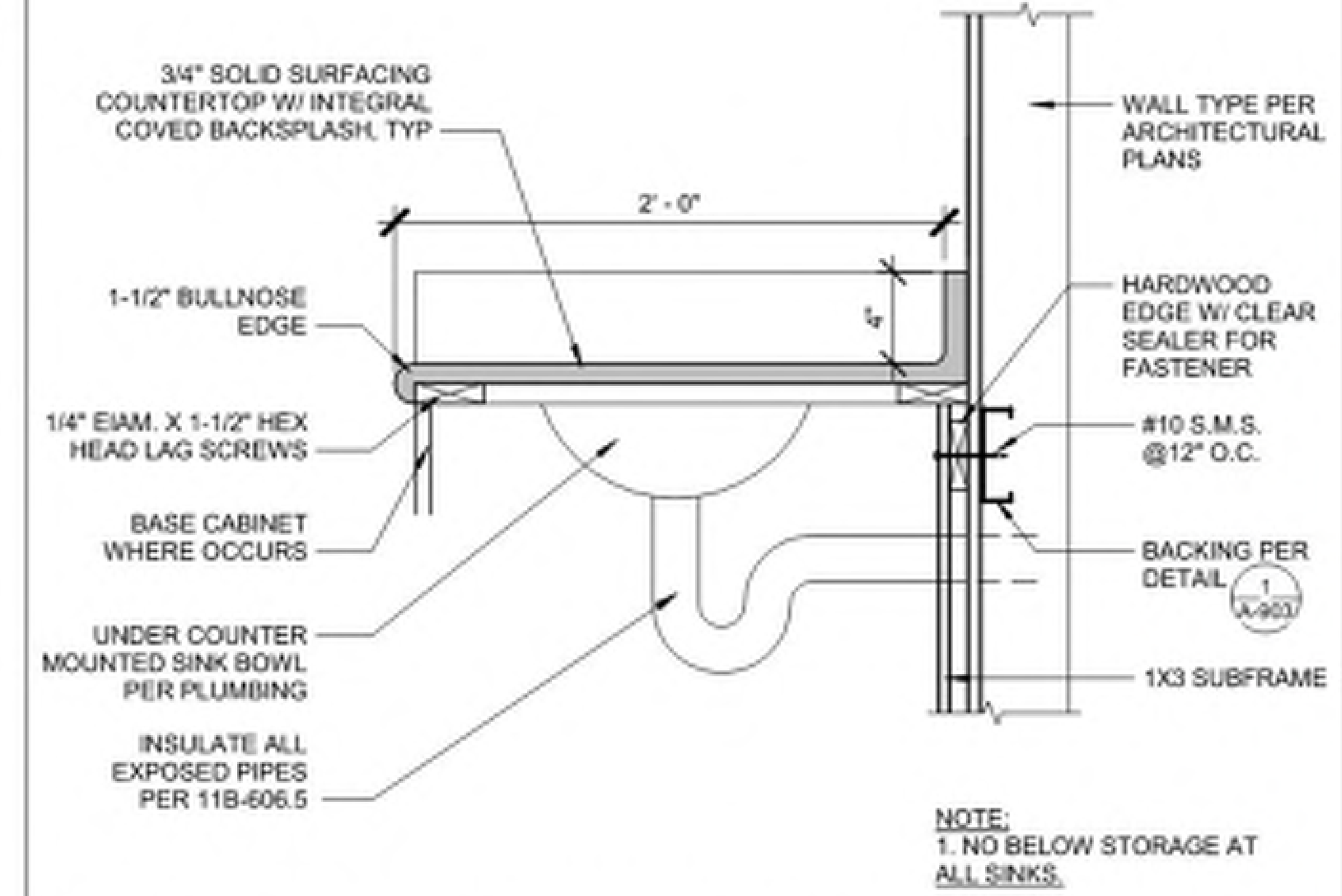
13 WORKSTATION COUNTERTOP SUPPORT
1 1/2" = 1'-0"



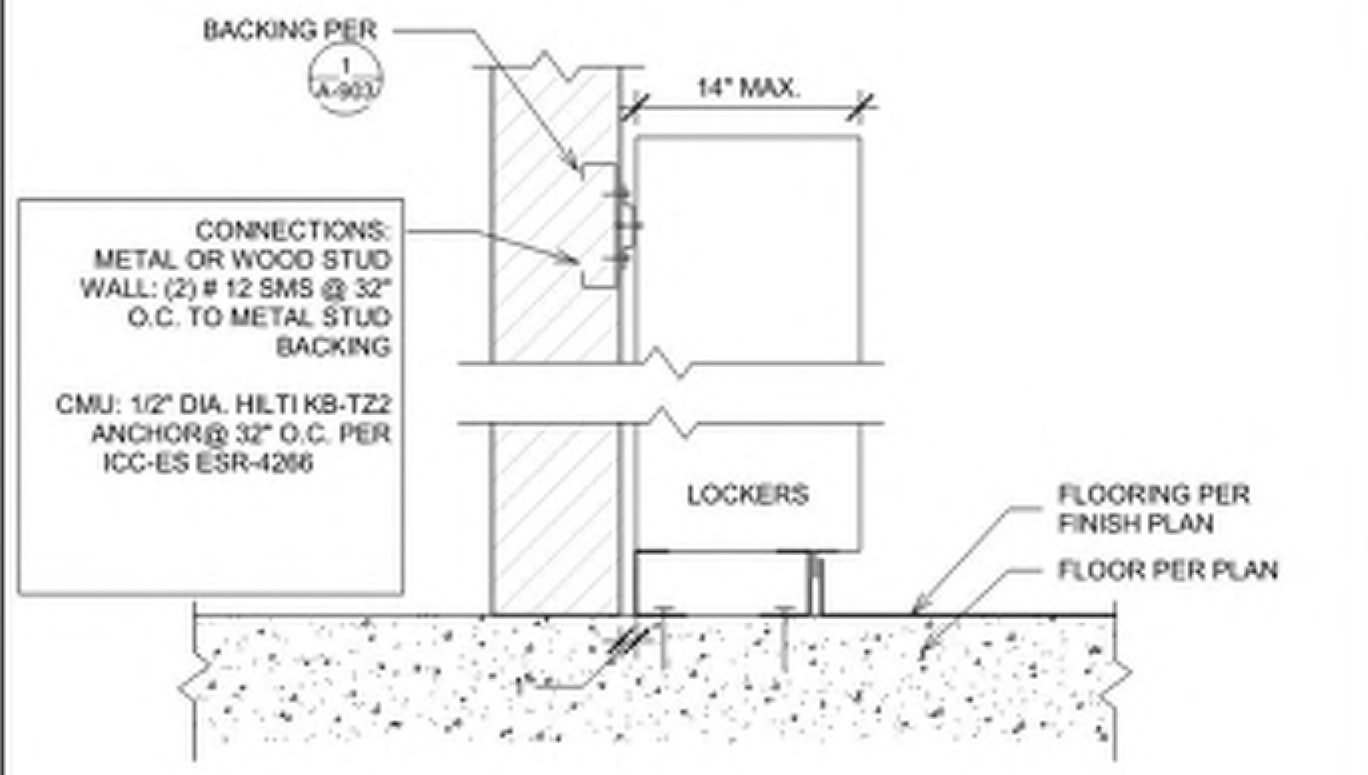
9 LOWER CASEWORK ANCHORAGE
1 1/2" = 1'-0"



5 UPPER AND LOWER
1" = 1'-0"

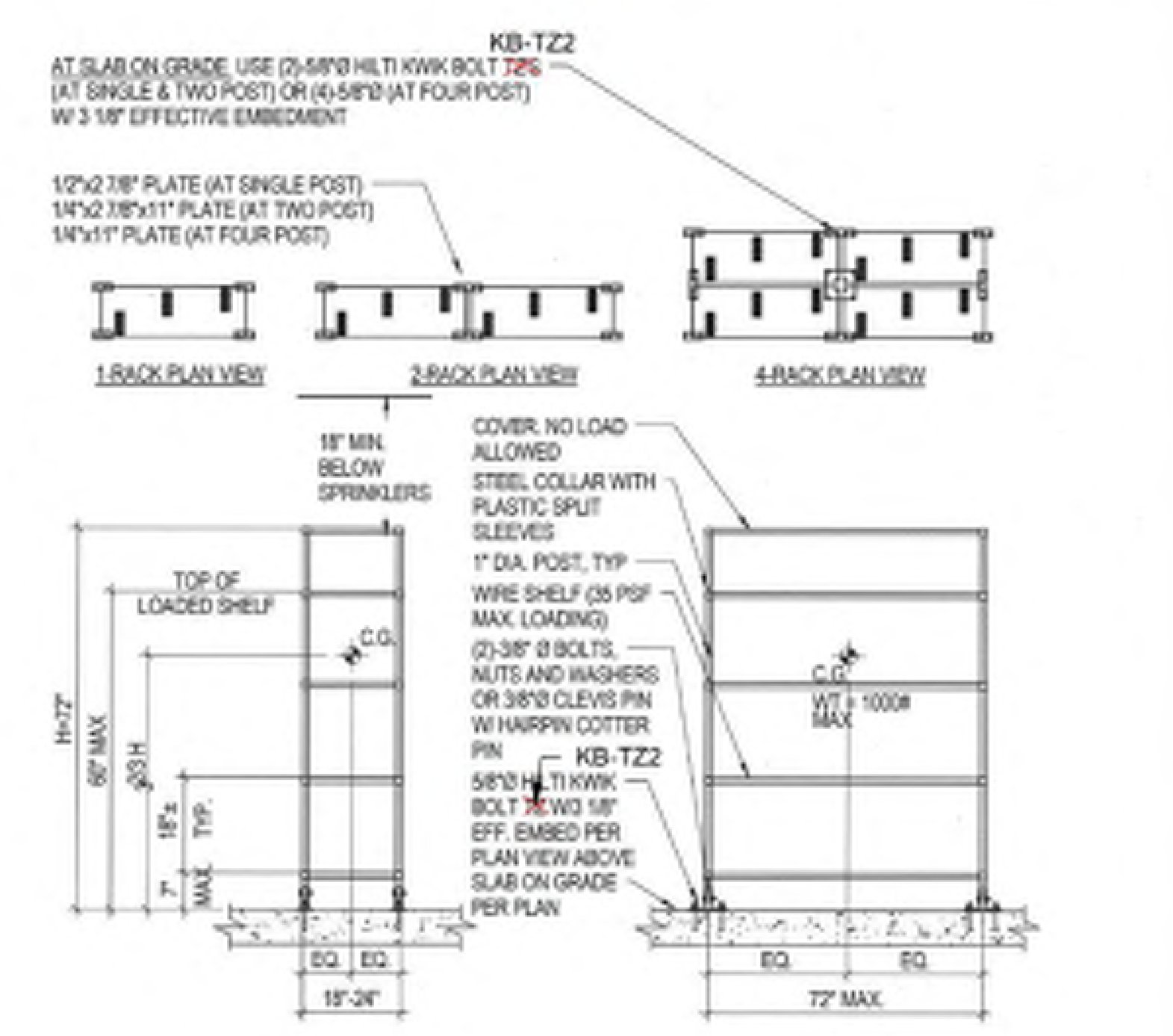


1 SOLID SURFACE COUNTER W/ SINK
1 1/2" = 1'-0"

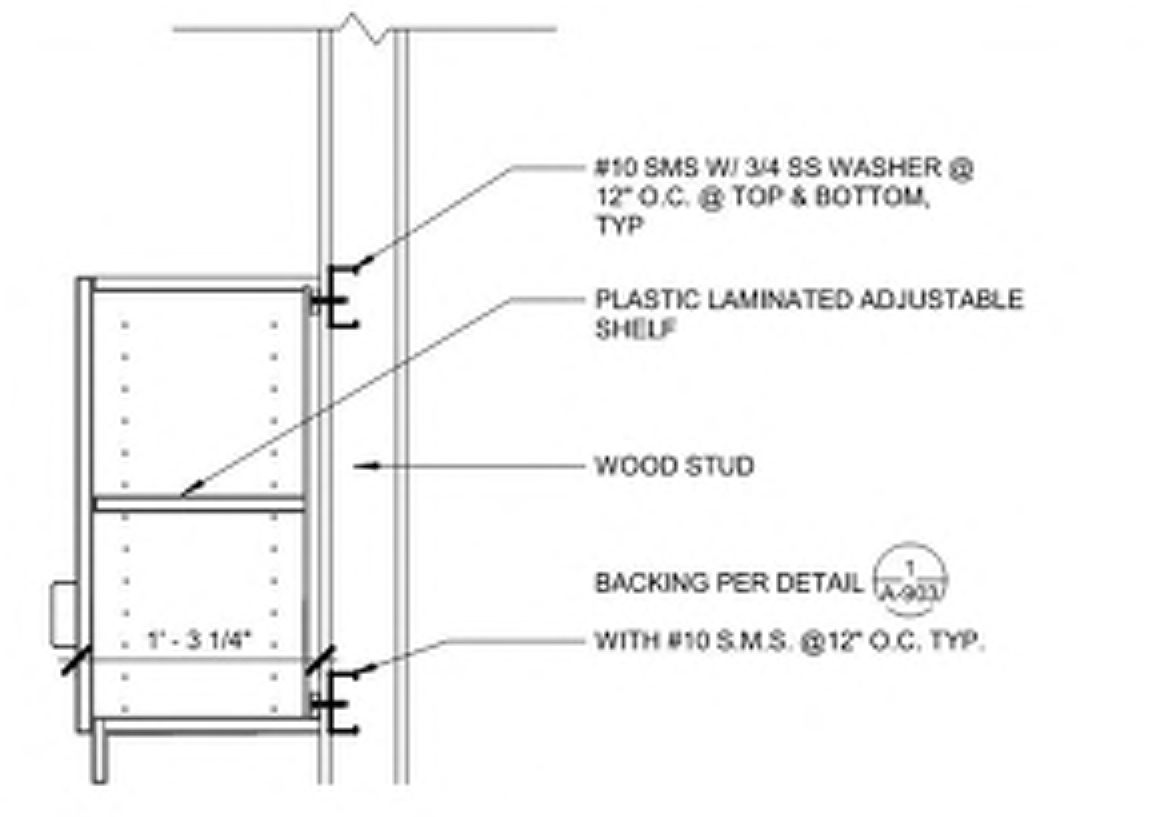


LOCKERS: CBC SECTION 11B-225.2.1
WHERE LOCKERS ARE PROVIDED, AT LEAST 5%, BUT NO FEWER THAN ONE OF EACH TYPE, SHALL COMPLY WITH **CBC SECTION 11B-811**

17 ANCHORAGE AT LOCKERS
1" = 1'-0"

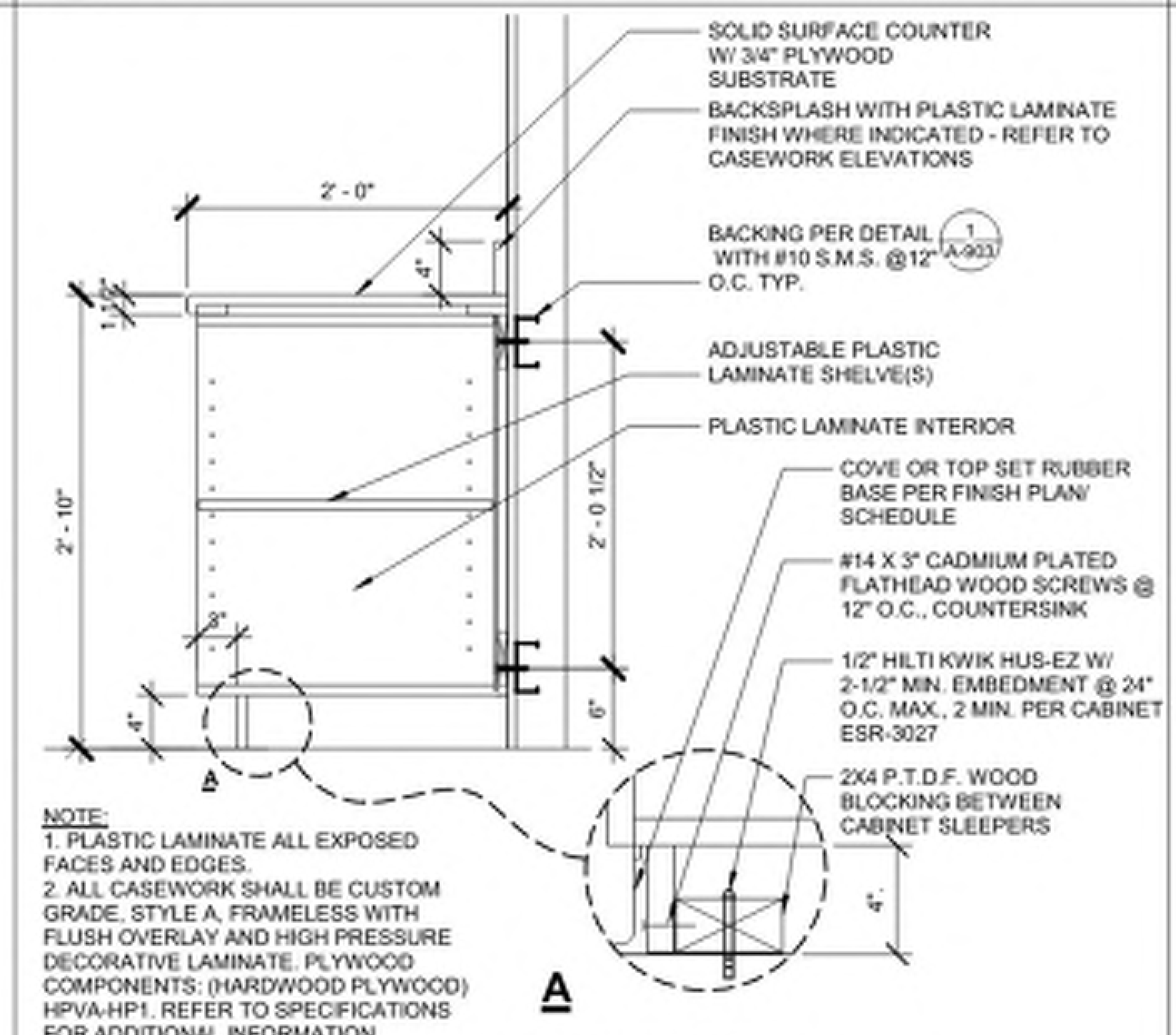


14 SHELVING UNIT - FREE STANDING
1/2" = 1'-0"



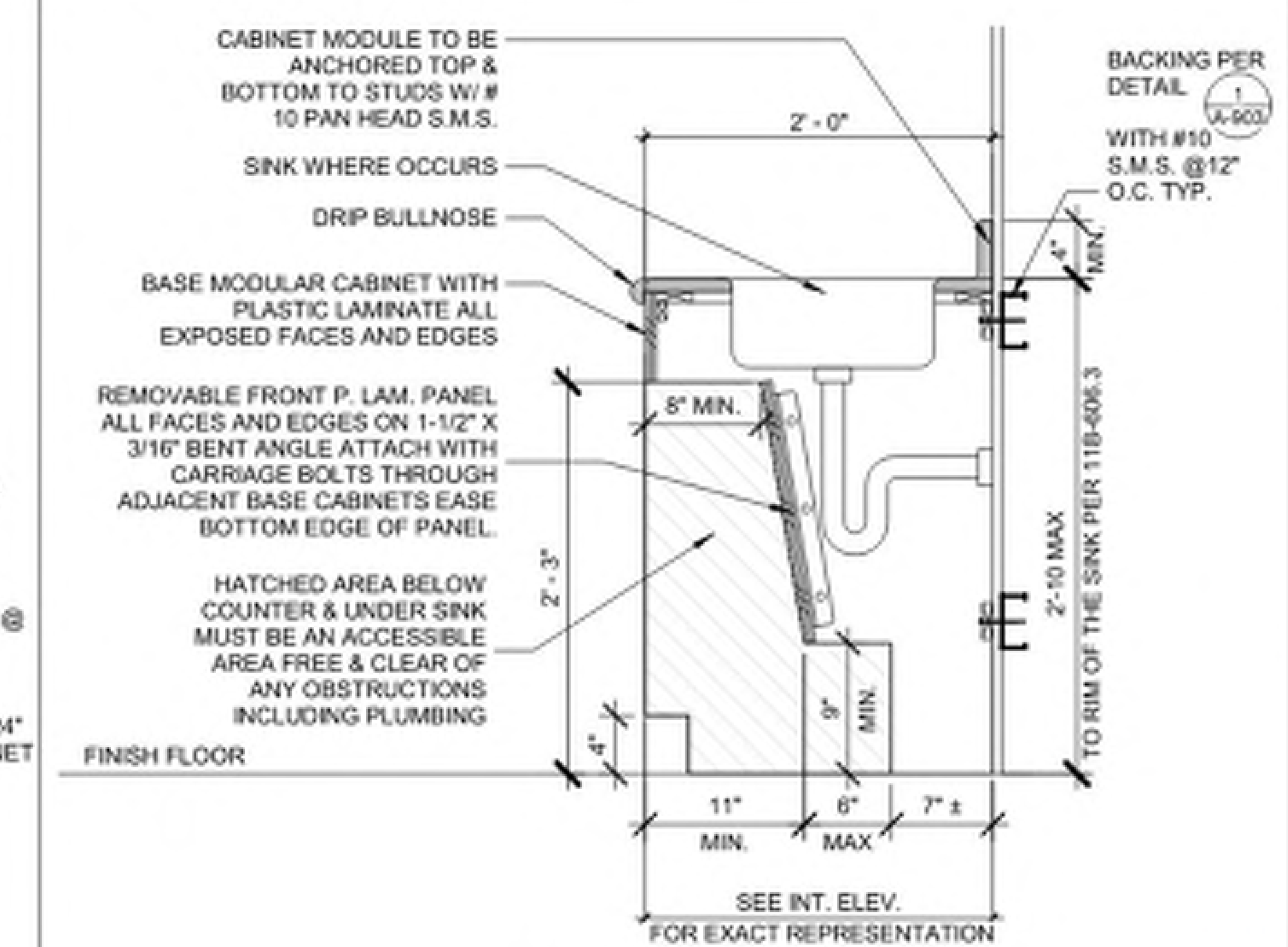
NOTE:
1. PLASTIC LAMINATE ALL EXPOSED FACES AND EDGES.
2. PROVIDE LOCKS ON UPPER CABINET DOOR(S) LOCATIONS AS SHOWN ON THE INTERIOR ELEVATIONS.
3. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONENTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

10 CASEWORK ANCHORAGE (TOP CAB)
1" = 1'-0"



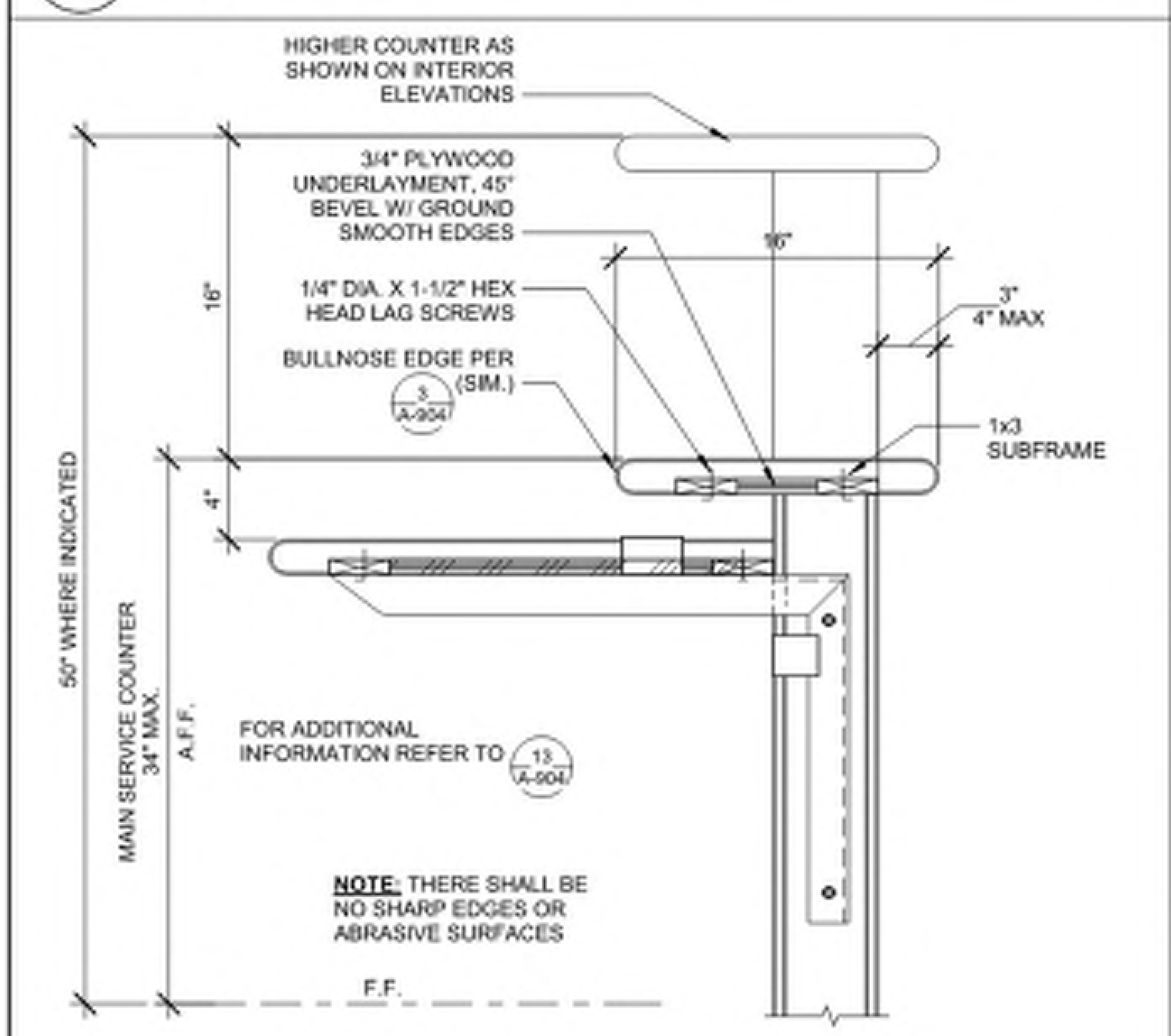
NOTE:
1. PLASTIC LAMINATE ALL EXPOSED FACES AND EDGES.
2. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONENTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6 BASE CABINET SHELVES
1" = 1'-0"

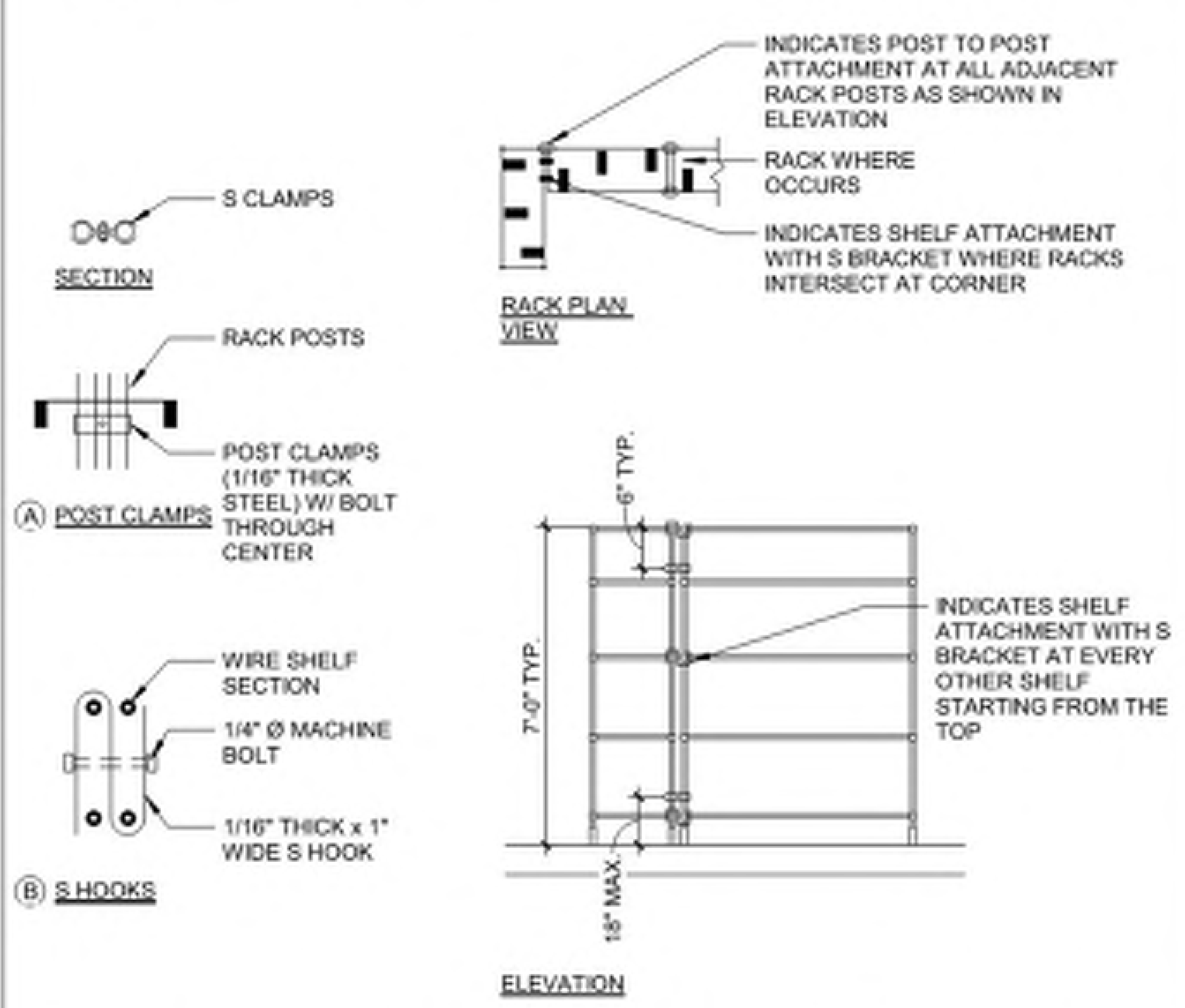


NOTE:
1. WATER SUPPLY AND DRAIN SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS. THE CLEAR SPACE SHALL EXTEND A MAX. OF 19" UNDERNEATH THE SINK.

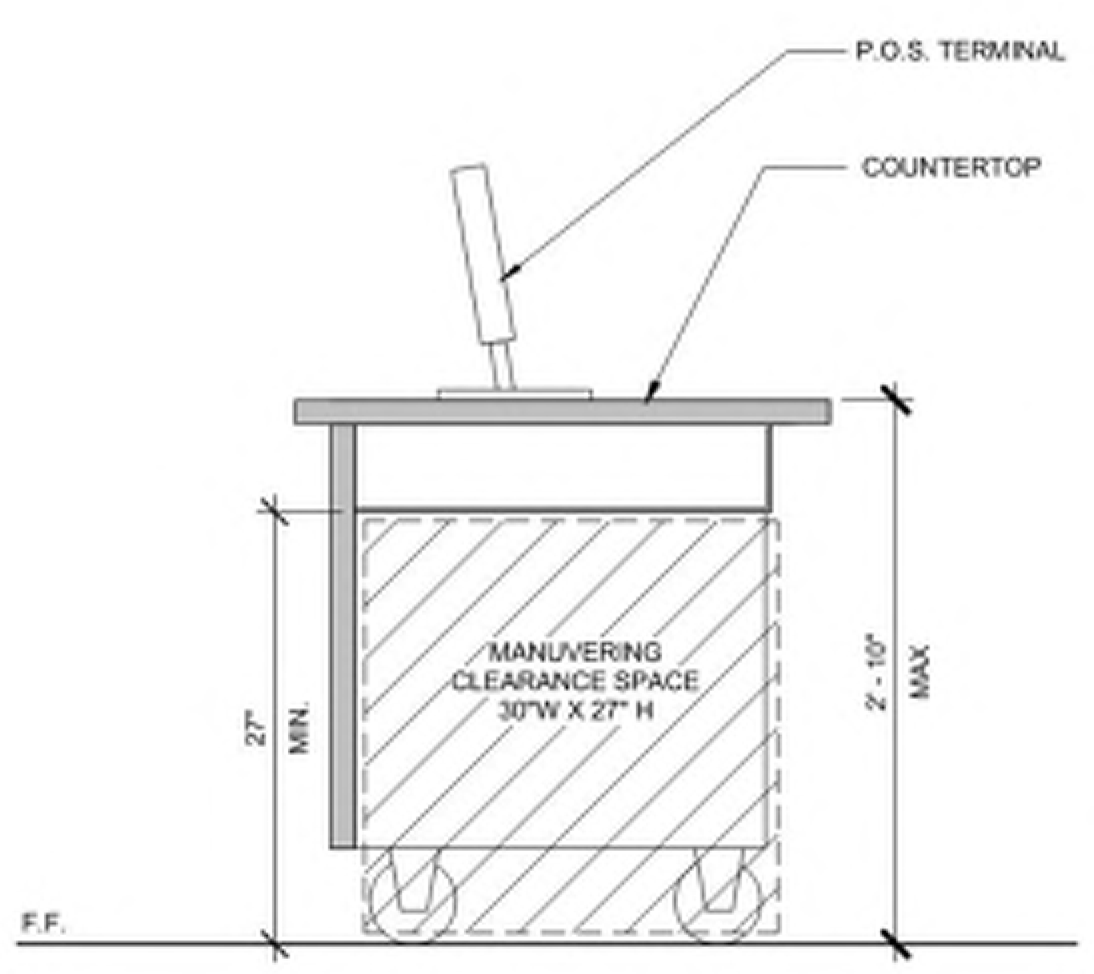
2 SINK CABINET
1" = 1'-0"



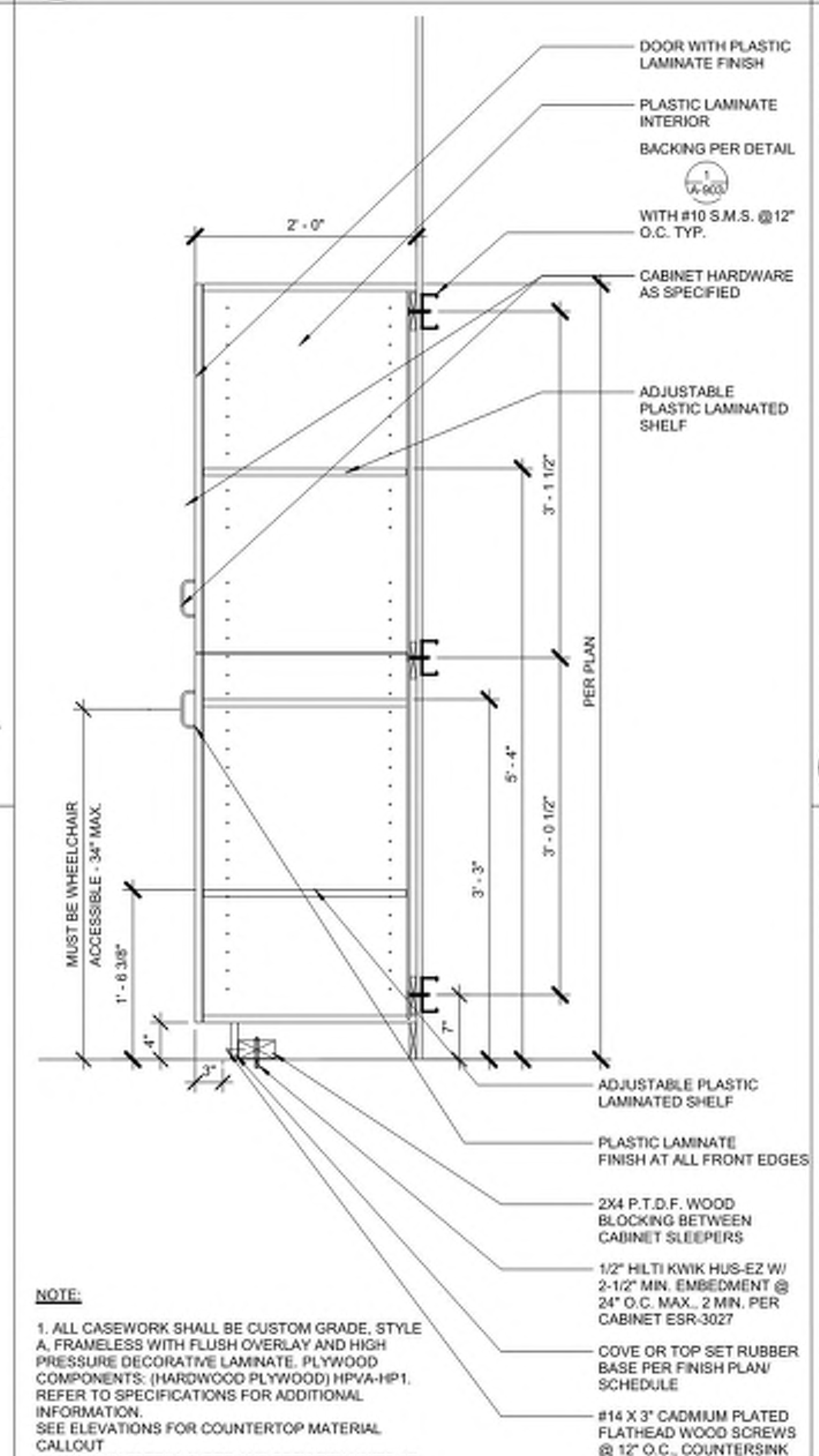
11 SERVICE COUNTER
1 1/2" = 1'-0"



15 SHELVING RACK TO RACK CONNECT
1/2" = 1'-0"



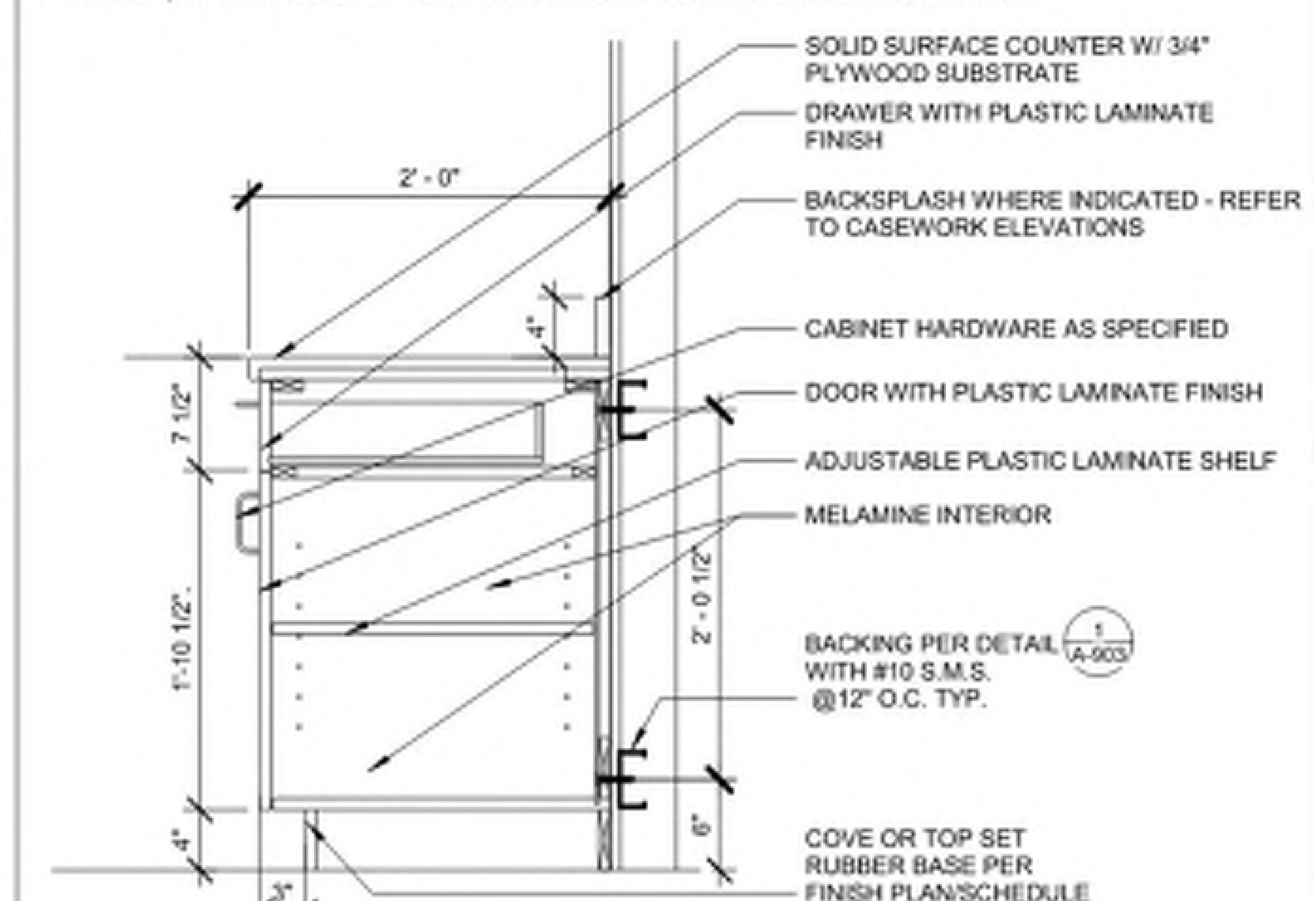
16 FOOD EQUIP POS ADA
1" = 1'-0"



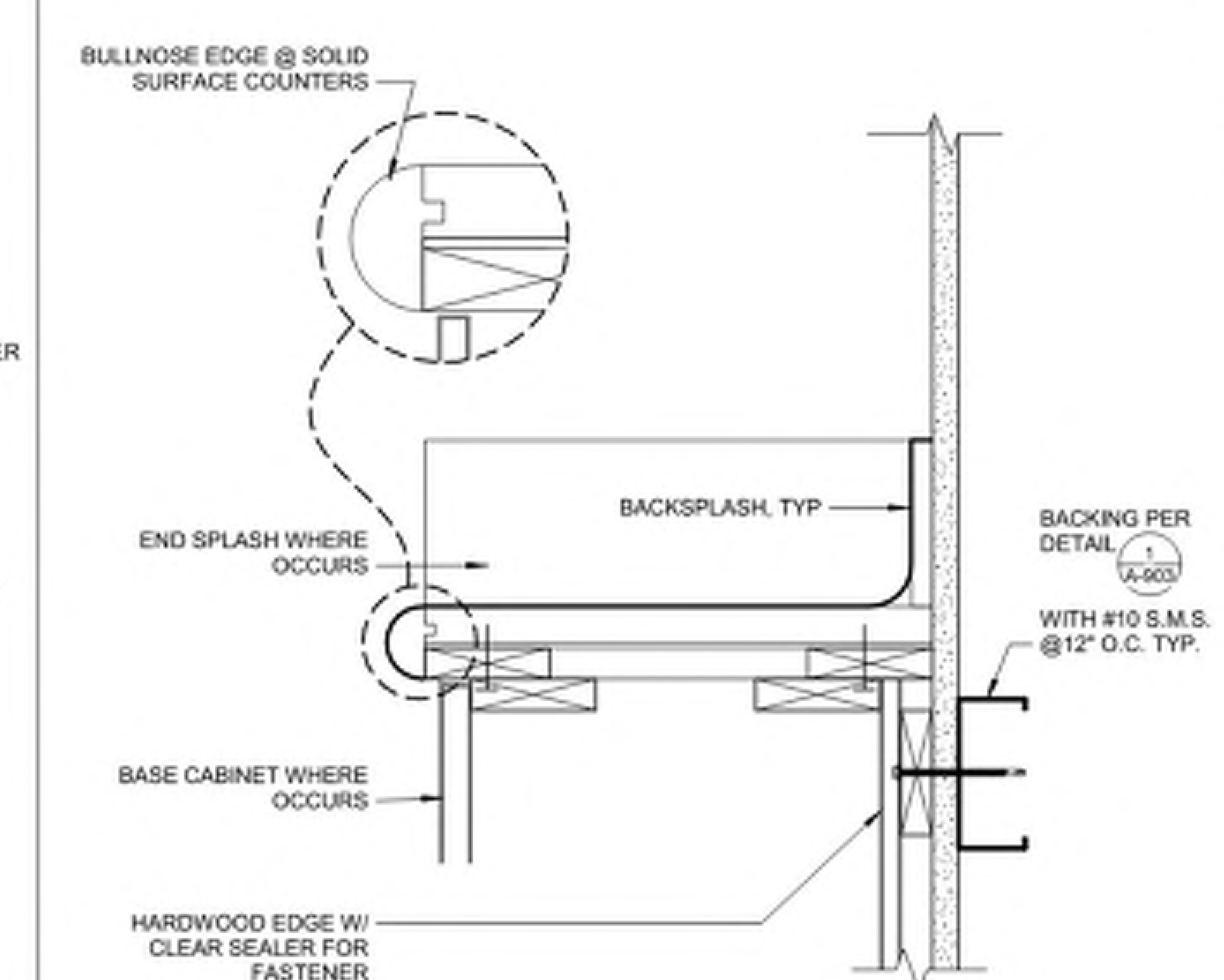
NOTE:
1. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONENTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE ELEVATIONS FOR COUNTERTOP MATERIAL CALLOUT
2. MAXIMUM 2" TRIM @ TOP AND BETWEEN UNITS AT END WALL CONDITION.

12 CASEWORK (TALL CABINET)
1" = 1'-0"

NOTE:
1.PROVIDE SOLID SURFACE COUNTER WHERE INDICATED ON CASEWORK ELEVATIONS.
2. PROVIDE COUNTER WITH BULLNOSE EDGE WHERE INDICATED ON CASEWORK ELEVATIONS.
3. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONENTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

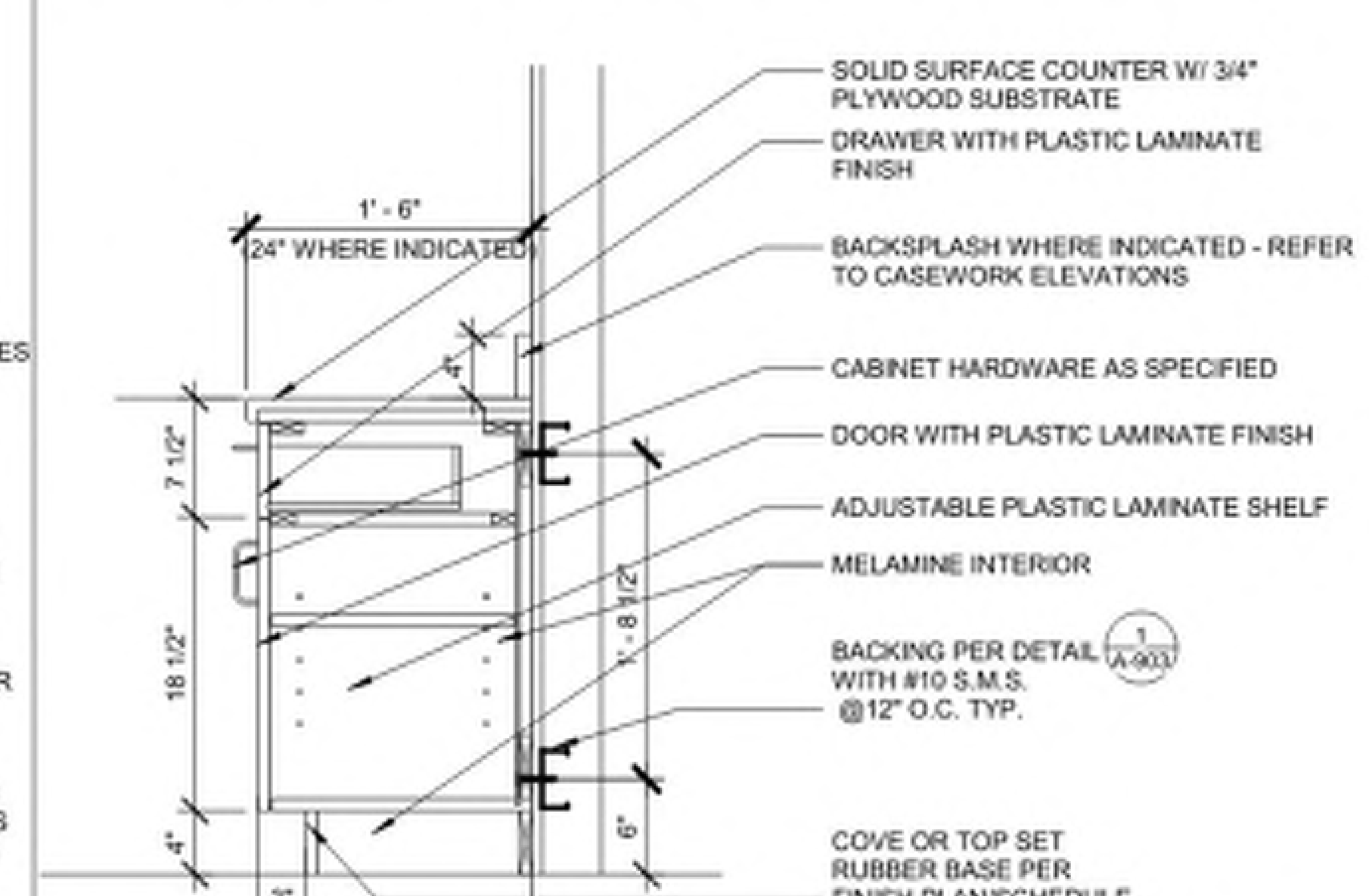


7 BASE CABINET W/ DRAWER
1" = 1'-0"

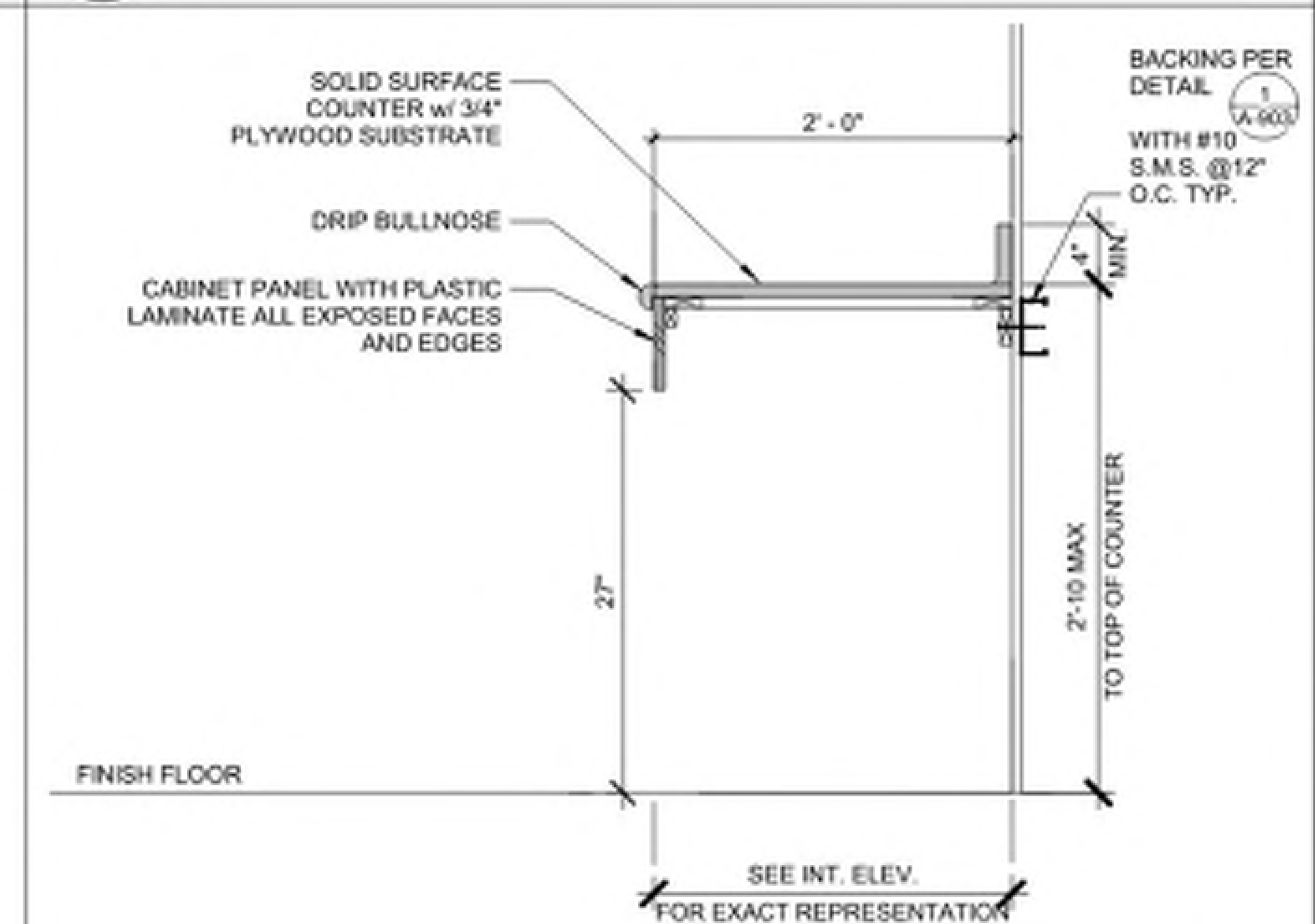


3 BULLNOSE SOLID SURFACE
3" = 1'-0"

NOTE:
1.PROVIDE SOLID SURFACE COUNTER WHERE INDICATED ON CASEWORK ELEVATIONS.
2. PROVIDE COUNTER WITH BULLNOSE EDGE WHERE INDICATED ON CASEWORK ELEVATIONS.
3. ALL CASEWORK SHALL BE CUSTOM GRADE, STYLE A, FRAMELESS WITH FLUSH OVERLAY AND HIGH PRESSURE DECORATIVE LAMINATE. PLYWOOD COMPONENTS: (HARDWOOD PLYWOOD) HPVA-HP1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



8 RECEPTION BASE CAB. W/ DRAWER
1" = 1'-0"



4 ACCESSIBLE WORK STATION
1" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT · STATE OF CALIFORNIA · NO. C28089 · REN. 05/31/23

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

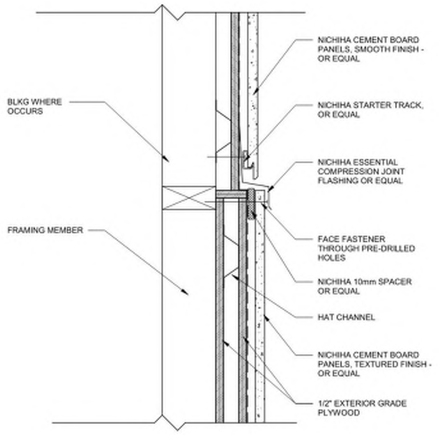
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

CASEWORK DETAILS

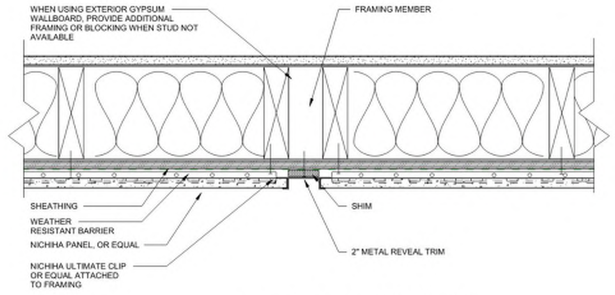
A-904

9/27/2022 9:28:43 AM



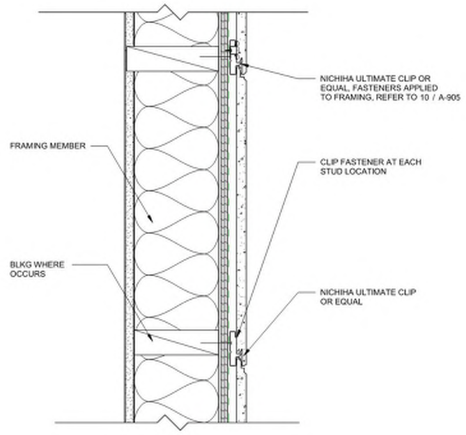
NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

9 HORIZONTAL TRANSITION DETAIL
3" = 1'-0"



NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

7 VERTICAL REVEAL DETAIL
3" = 1'-0"



NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

4 HORIZONTAL BUTT JOINT DETAIL
3" = 1'-0"

PANEL PROPERTIES

SMOOTH HORIZONTAL PANELS AWP1818

DIMENSIONS	17 7/8" H x 71 9/16" L (MAX) (455mm x 1818mm)
THICKNESS	5/8" (16mm)
WEIGHT (#/PANEL)	35.2
WEIGHT (#/SQ FT)	3.9
EXPOSED COVERAGE (SQ FT/PANEL)	8.88 SQ FT

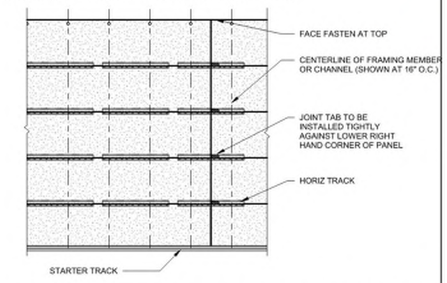
TEXTURED PANELS AWP3030

DIMENSIONS	17 7/8" H x 119" L (MAX) (455mm x 3030mm)
THICKNESS	5/8" (16mm)
WEIGHT (#/PANEL)	57.2
WEIGHT (#/SQ FT)	3.8
EXPOSED COVERAGE (SQ FT/PANEL)	14.81 SQ FT

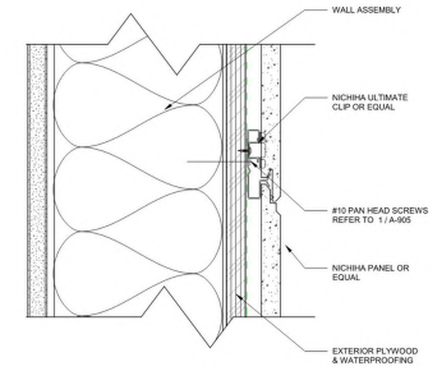
FASTENERS:
FASTENERS SHALL BE CORROSION RESISTANT. STAINLESS STEEL OR CORROSION RESISTANT SCREWS SUCH AS HOT DIPPED ZINC OR CERAMIC COATED.

CLIP FASTENERS =	#10 PAN-HEAD SCREWS (HD .365" (9.3mm))
ULTIMATE CLIP, STARTER TRACK =	#8 PAN, WAFER OR HEX TYPE FULL HEAD
FACE FASTENING LOCATIONS =	#7 OR LARGER w/ A BUGLE OR FLAT HEAD (MIN HEAD Ø 0.255" (6.5mm)

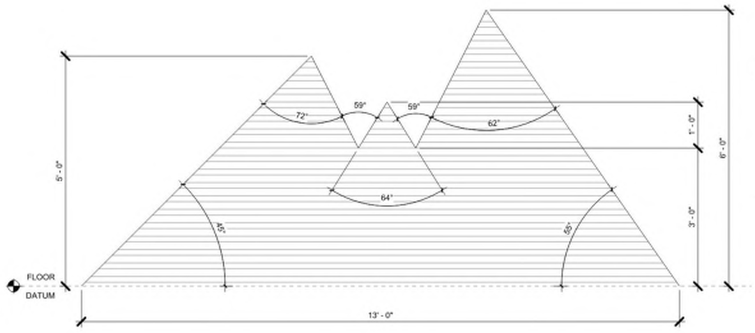
FASTENERS MUST PENETRATE SOLID STRUCTURE BY A MIN OF 1" (25mm)



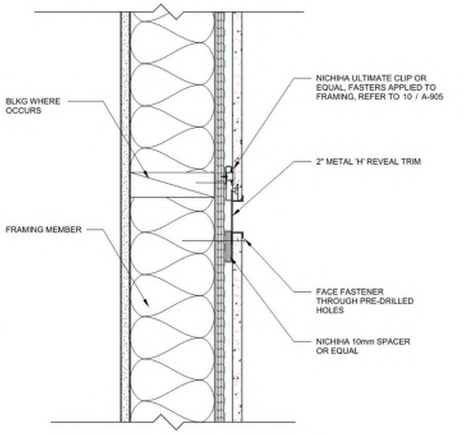
1 CEMENT BOARD SUPPORT LAYOUT
1/2" = 1'-0"



10 TYPICAL CEMENT BOARD CLIP DETAIL
6" = 1'-0"

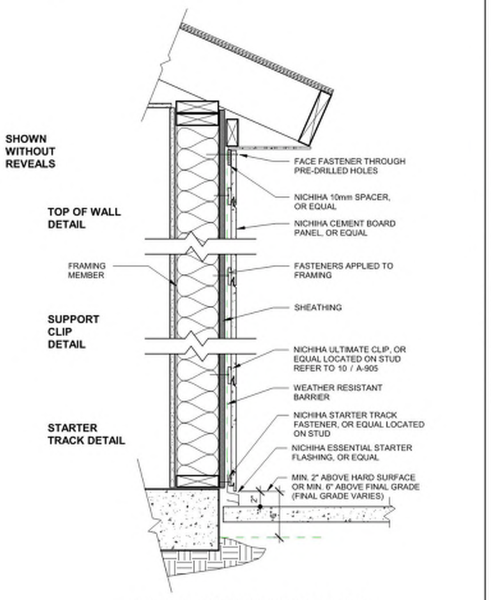


8 TEXTURED FIBRE CEMENT BOARD PATTERN
3/4" = 1'-0"



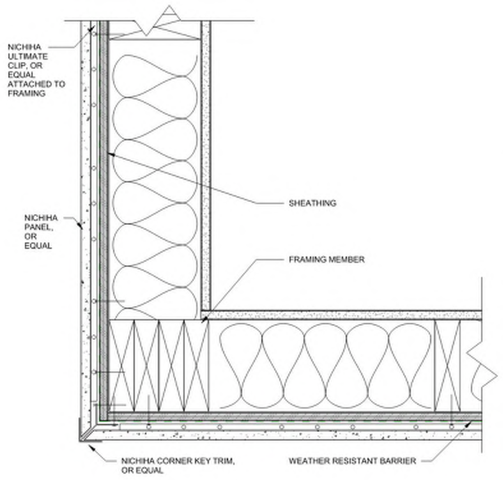
NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

5 HORIZONTAL REVEAL DETAIL
3" = 1'-0"



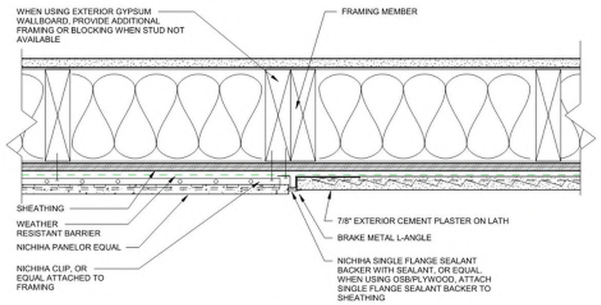
NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

2 WALL SECTION MOUNTING DETAIL
1 1/2" = 1'-0"



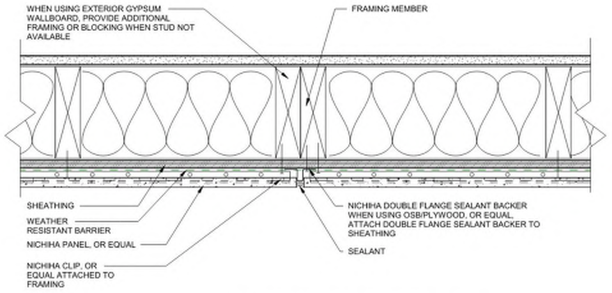
NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

11 CEMENT BOARD OUTSIDE CORNER
3" = 1'-0"



NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

6 CEMENT BOARD TRANSITION TO STUCCO
3" = 1'-0"



NOTE: FOR FASTENER INFORMATION REFER TO 1 / A-905

3 CEMENT BOARD EXPANSION JOINT
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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LICENSED ARCHITECT
ROBERT V. DAVY
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
–	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	Author
CHECKED BY:	Checker

FIBRE CEMENT BOARD DETAILS

A-905

9/27/2022 9:29:46 AM

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer: Armstrong World Industries
Product Name: Prelude XL 15/16" Exposed Tee Grid
Evaluation Report Type and Number: ASTM C 635 Heavy Duty
Main Runner Part, Model, or Catalog Number: Prelude XL 15/16" 7307
Cross Runner Part, Model, Catalog Number: Prelude XL 15/16" XL7378

1.04 Seismic Wall Clip: BERC2 Clips
Manufacturer's Model: Prelude XL Accessories

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50 ksi. ←

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (F_Y) of 30 ksi and minimum ultimate strength (F_U) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.

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SUSPENDED LAY-IN PANEL CEILING: 2019 CBC

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: ***[RDP to indicate manufacturer, product, evaluation report number and test load for each size specified per CBC 1910A.5.4.]***

4.03 Power-Actuated Fasteners shall be: ***[RDP to indicate manufacturer, product, evaluation report number.]***

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member

4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

5.01 All field testing must be performed in the presence of the project inspector.

5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A5.

6. LUMINAIRES

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.

6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting

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SUSPENDED LAY-IN PANEL CEILING: 2019 CBC

ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.

6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.

6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.

6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.

7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
CEILING NOTES		1.00

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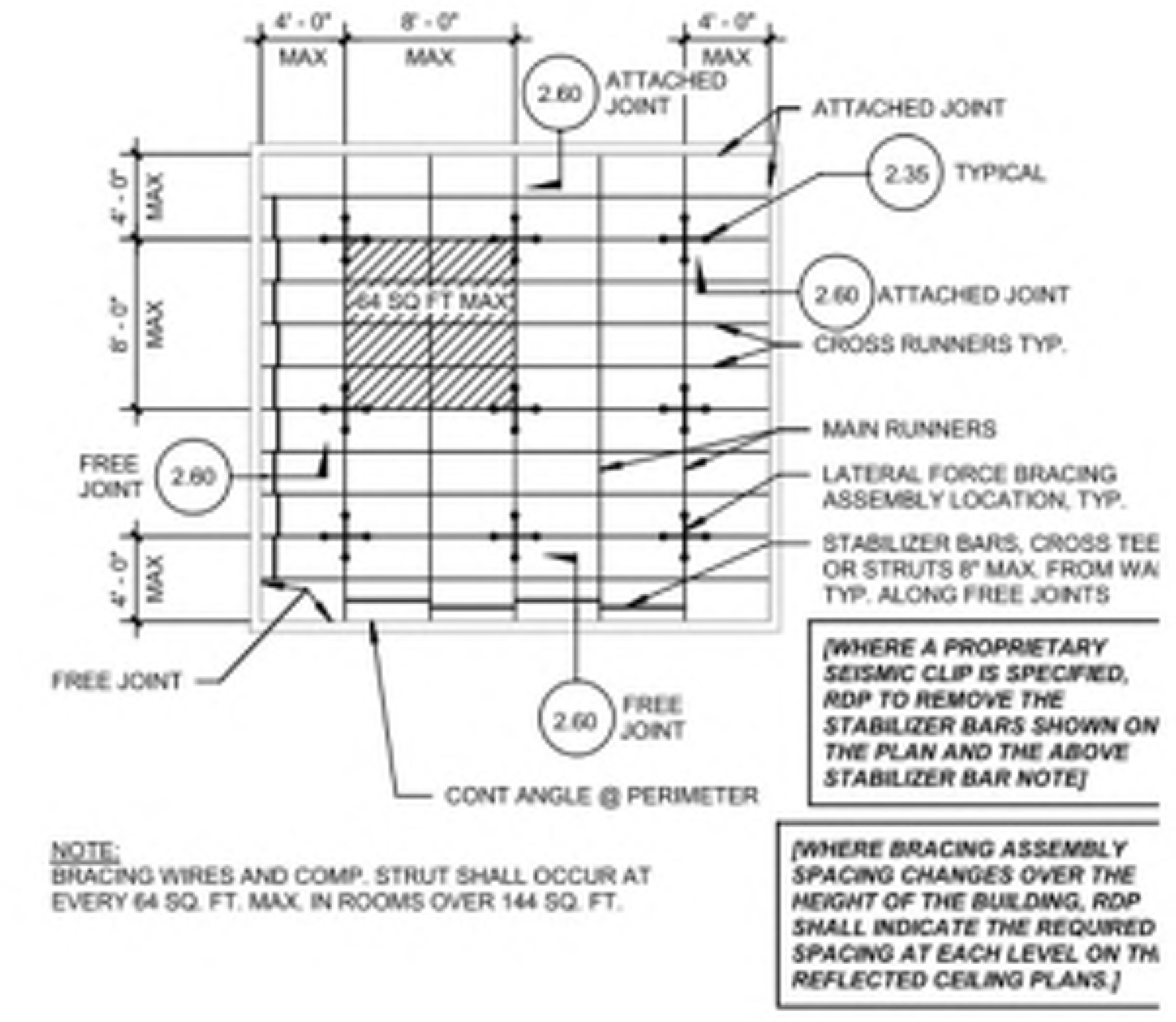
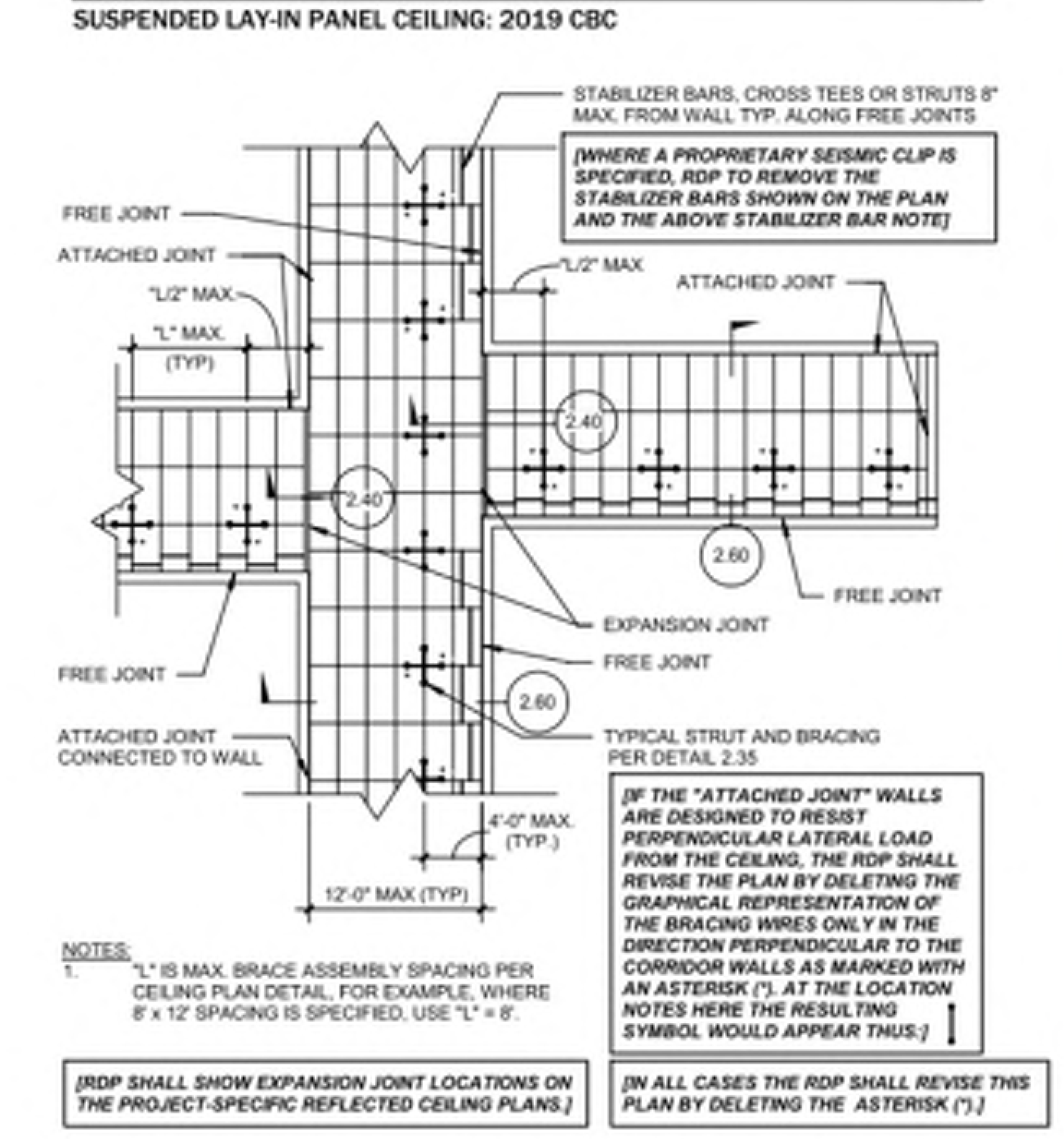
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



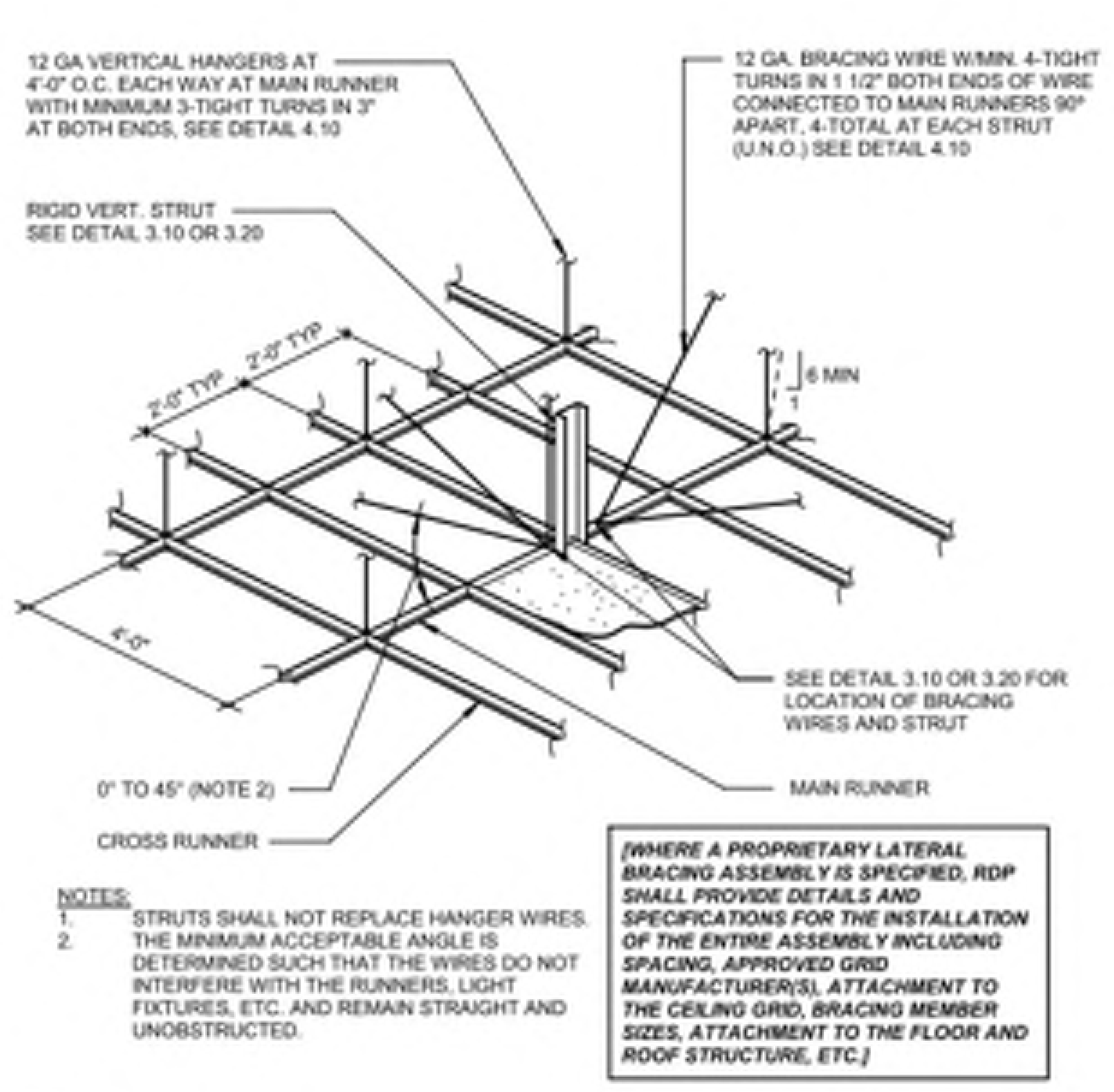
Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
TYP. CEILING PLAN FOR 8'-0"x8'-0" BRACE ASSEMBLY SPACING		2.10

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



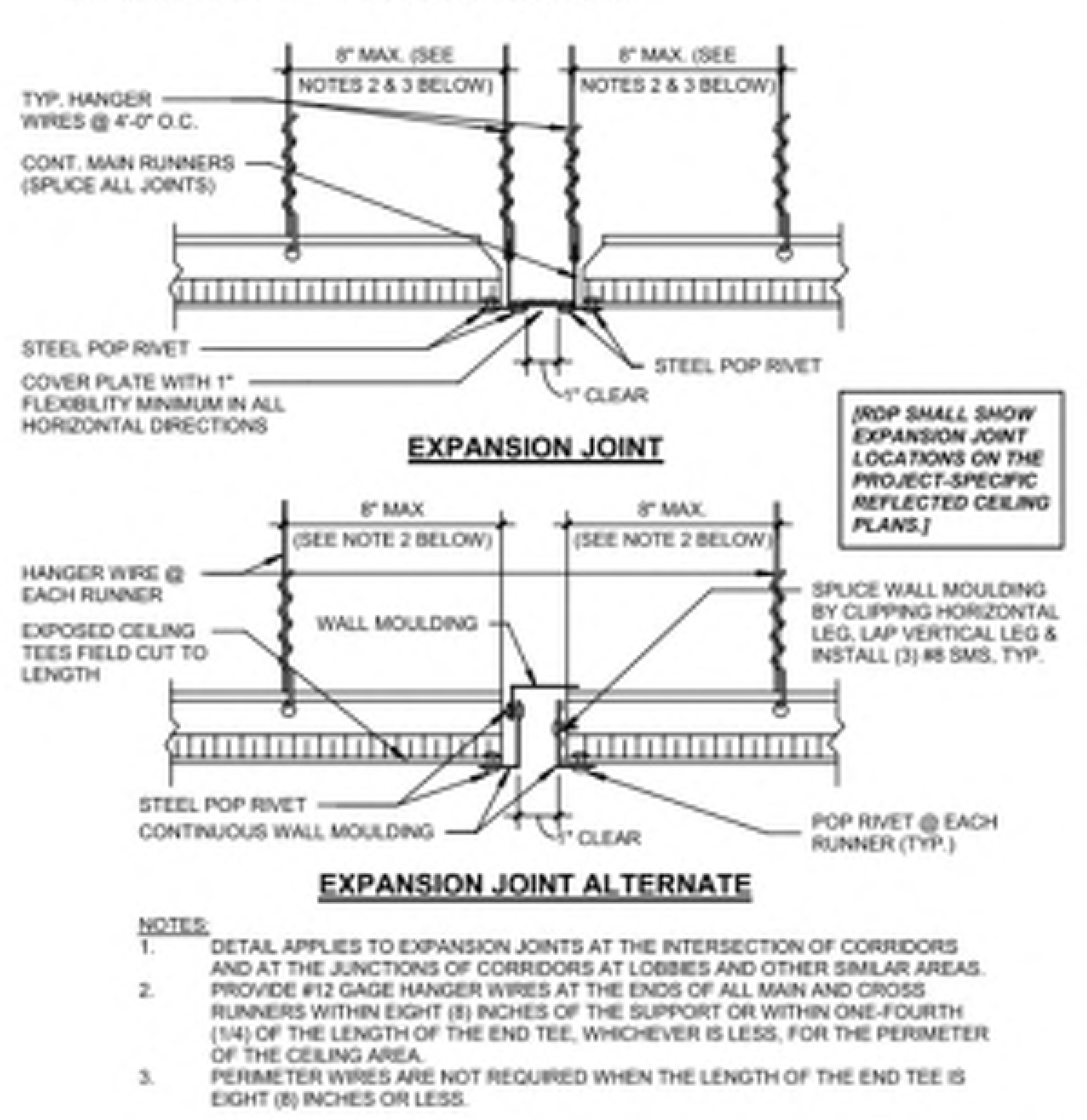
Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
CORRIDOR CEILING PLAN (SCHOOL BUILDING)		2.30

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



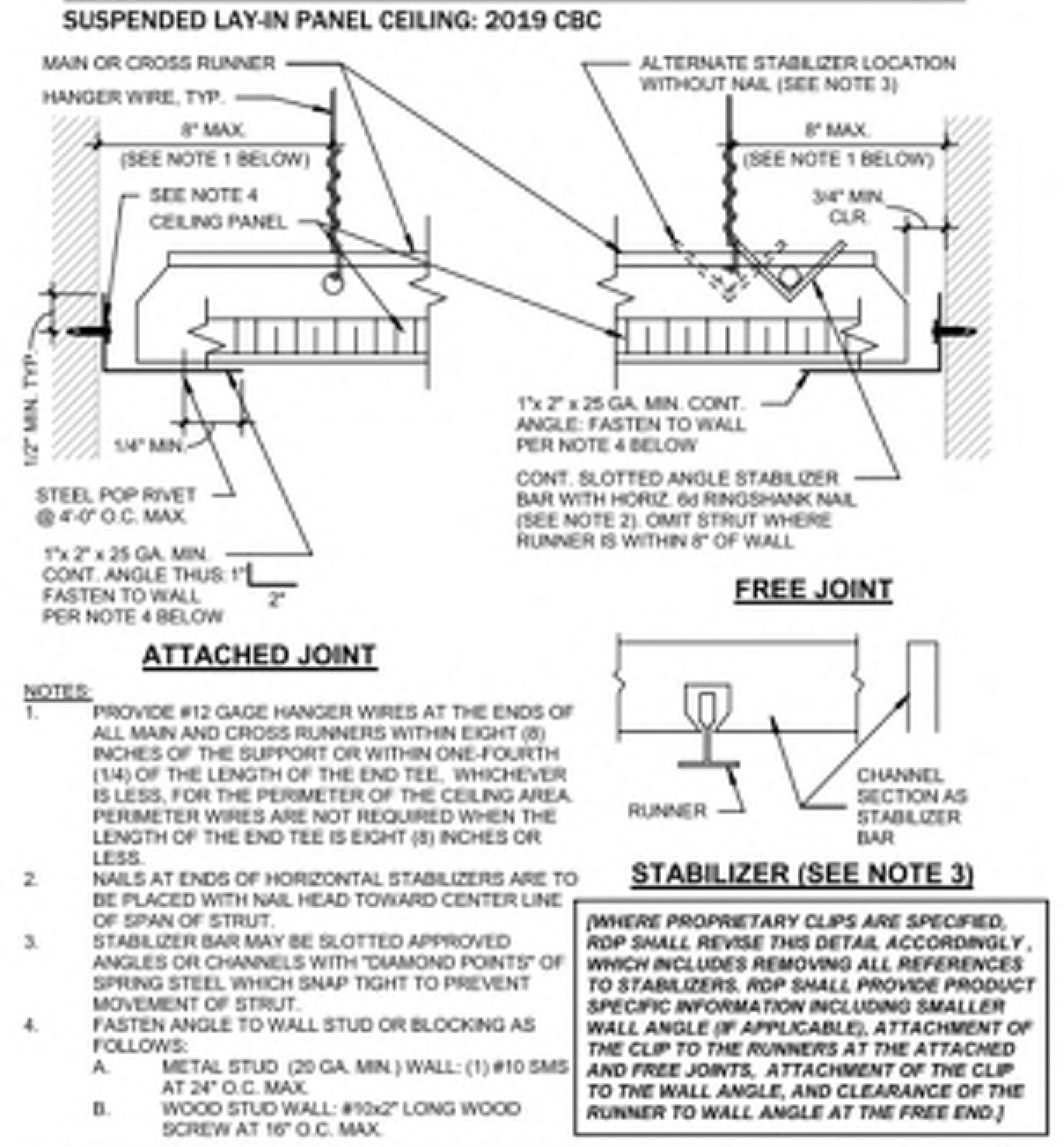
Detail Title:	REV: 09/21/2015 REV: 03/10/2017 REV: 03/2022	Detail No.
SUSPENSION AND LATERAL BRACING ASSEMBLY		2.35

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



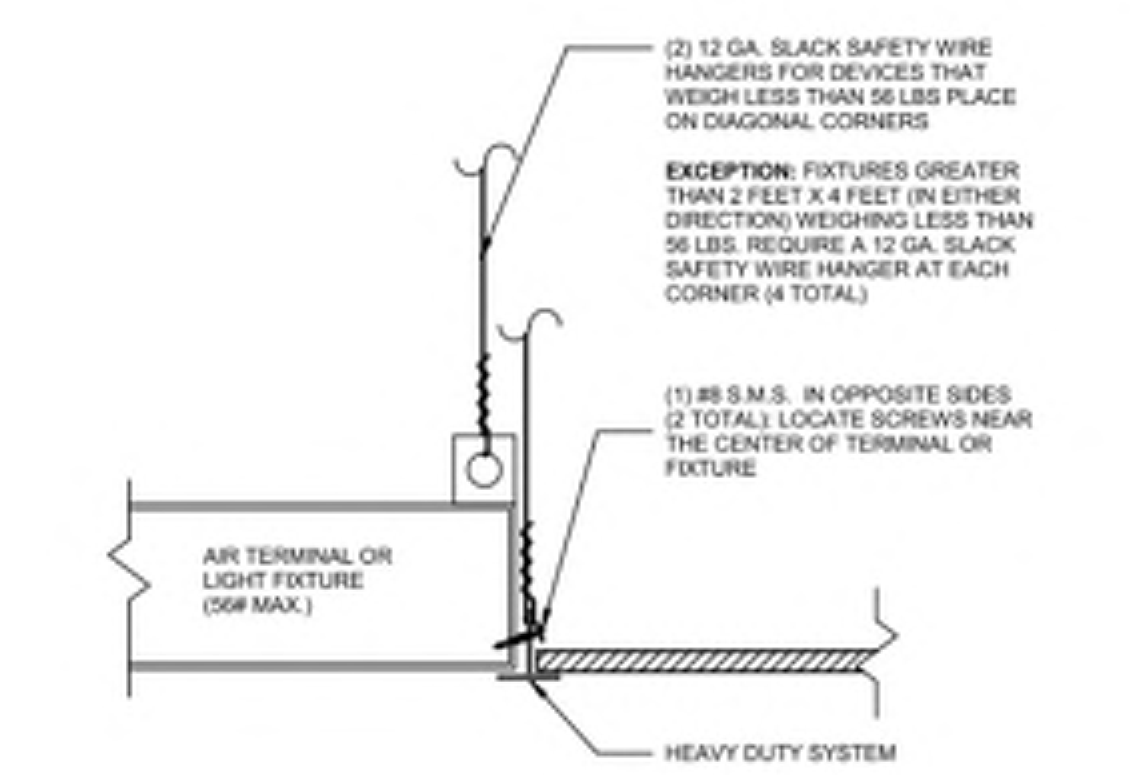
Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
EXPANSION JOINT (SCHOOL BUILDING)		2.40

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



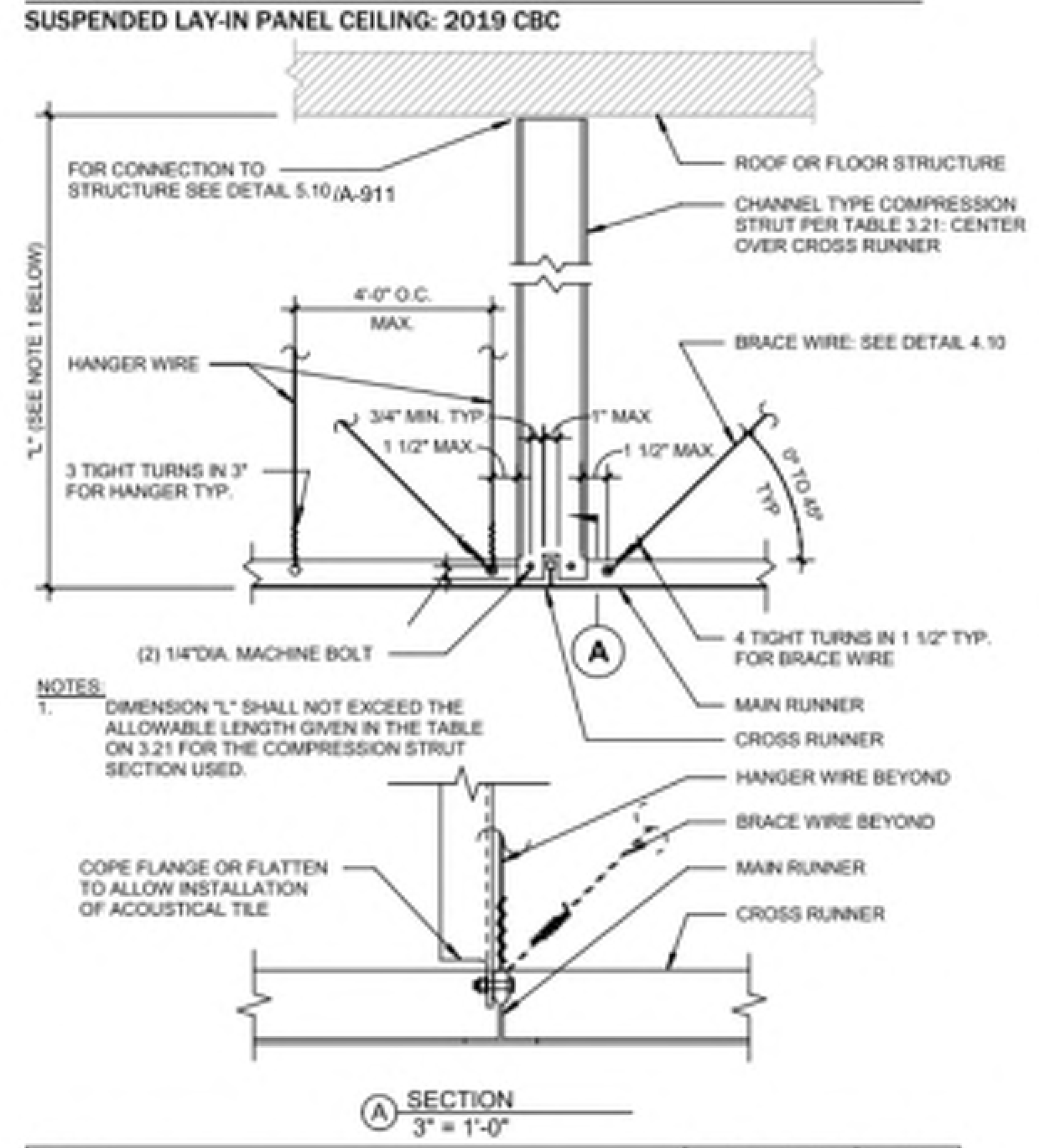
Detail Title:	REV: 09/21/2015 REV: 03/10/2017 REV: 03/2022	Detail No.
CEILING PERIMETER		2.60

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



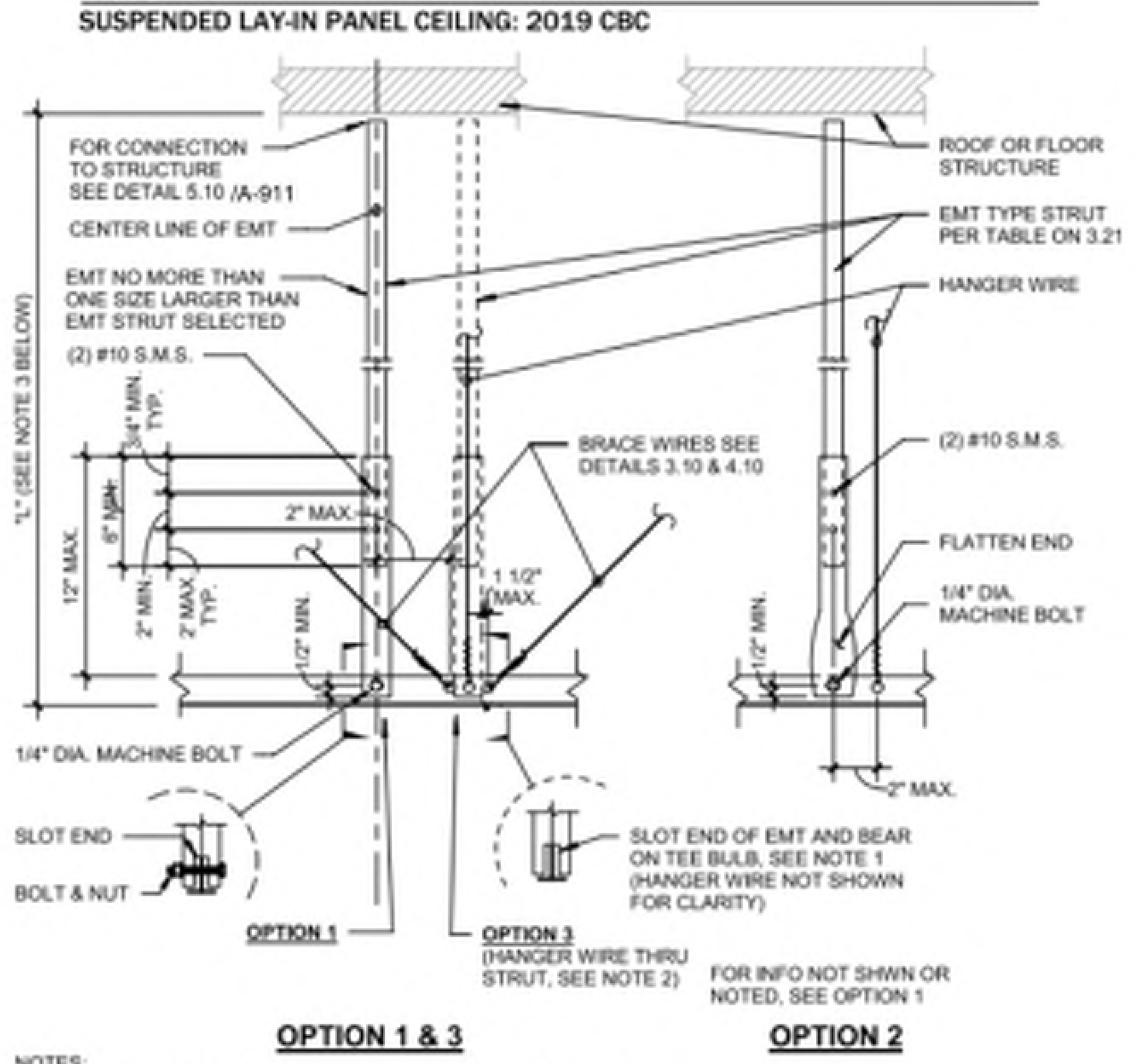
Detail Title:	REV: 09/21/2015 REV: 02/10/2016 REV: 03/2022	Detail No.
LUMINAIRE / AIR TERMINAL SUPPORT		2.80

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
COMPRESSION STRUT - CHANNEL TYPE		3.10

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
COMPRESSION STRUT - EMT TYPE		3.20

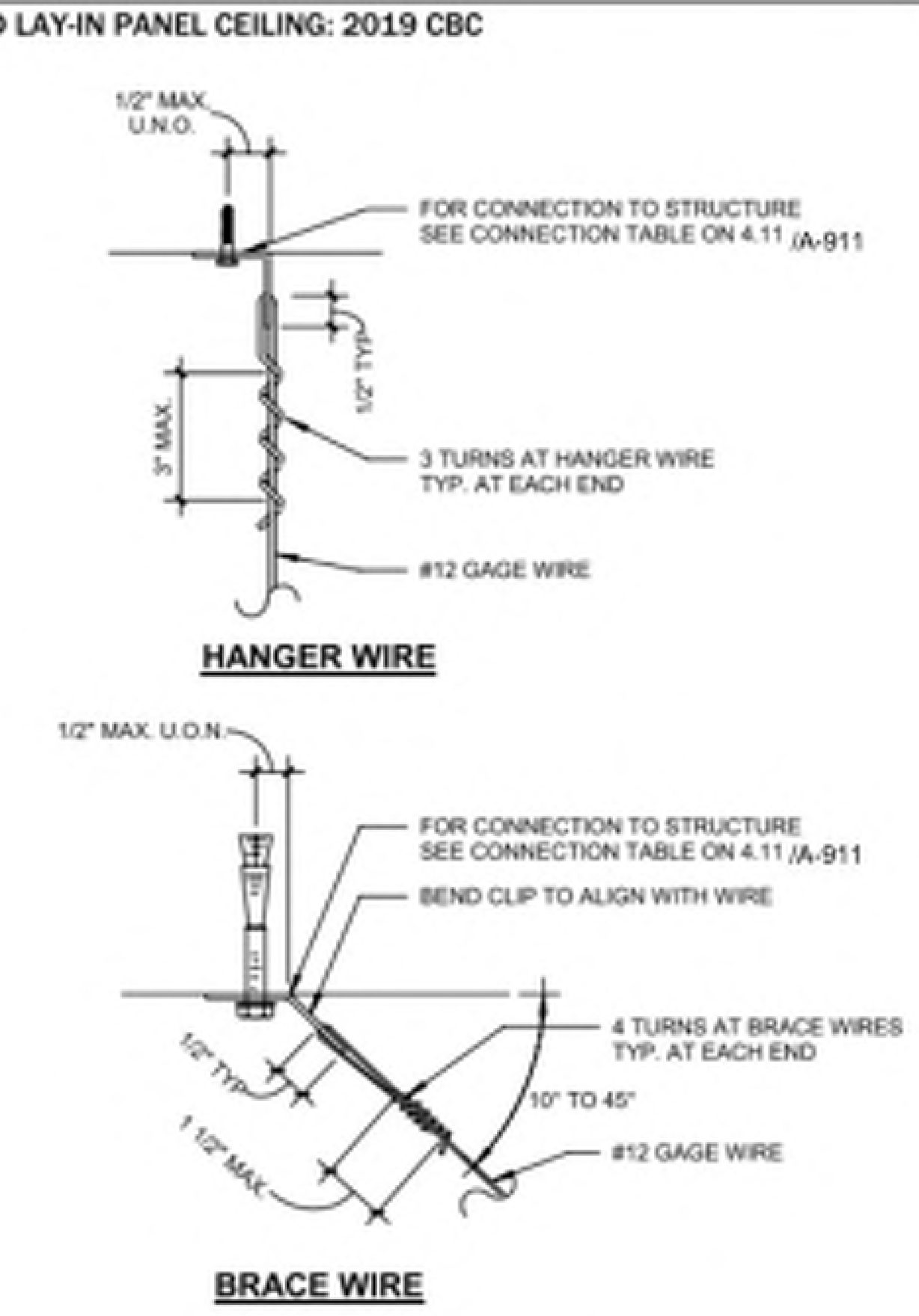
IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC

COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3' - 11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6' - 4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9' - 9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12' - 9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14' - 9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18' - 10"

COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5' - 10"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"

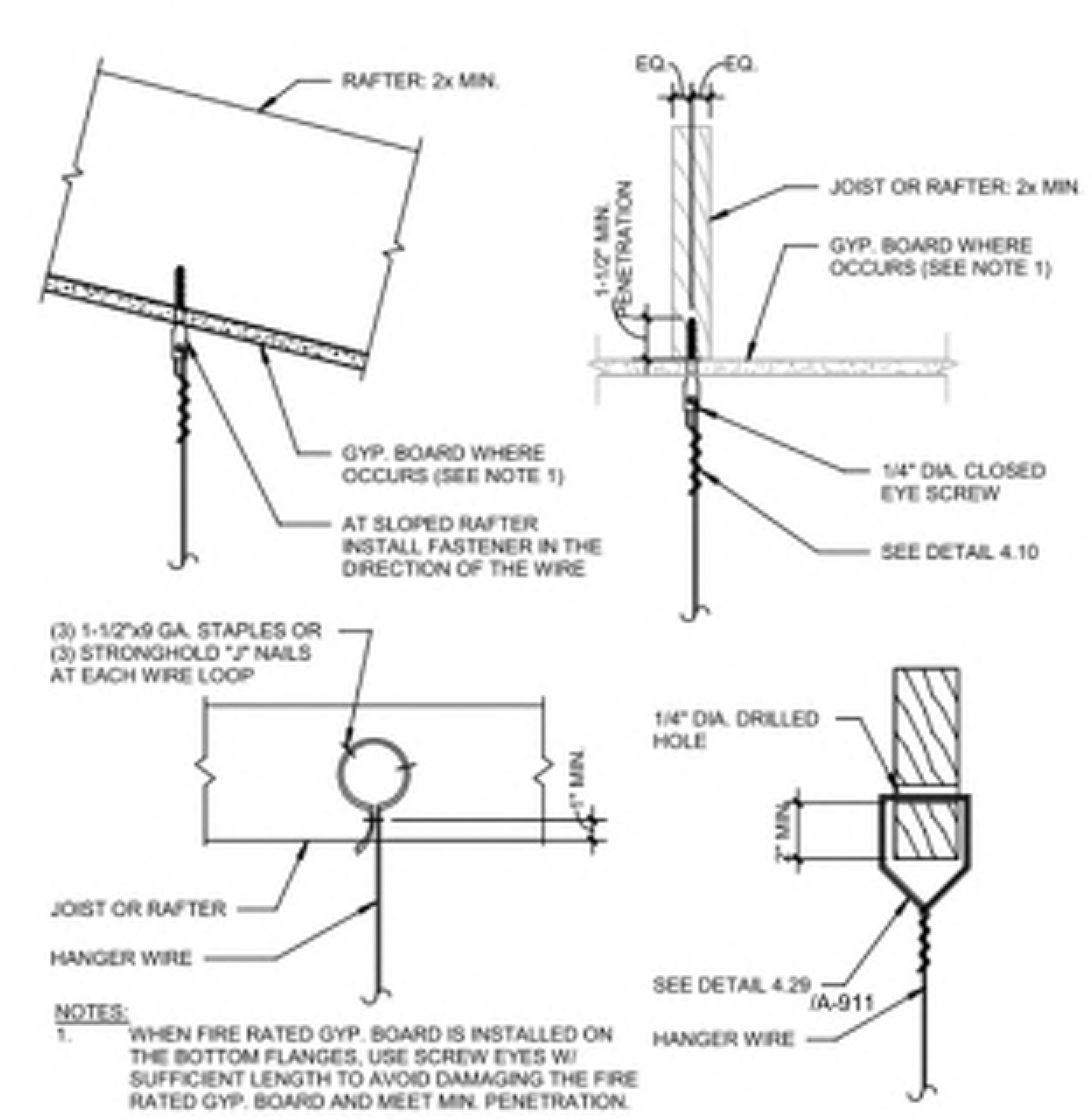
Detail Title:	REV: 09/21/2015 REV: 03/10/2017 REV: 03/2022	Detail No.
COMPRESSION STRUT TABLE		3.21

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



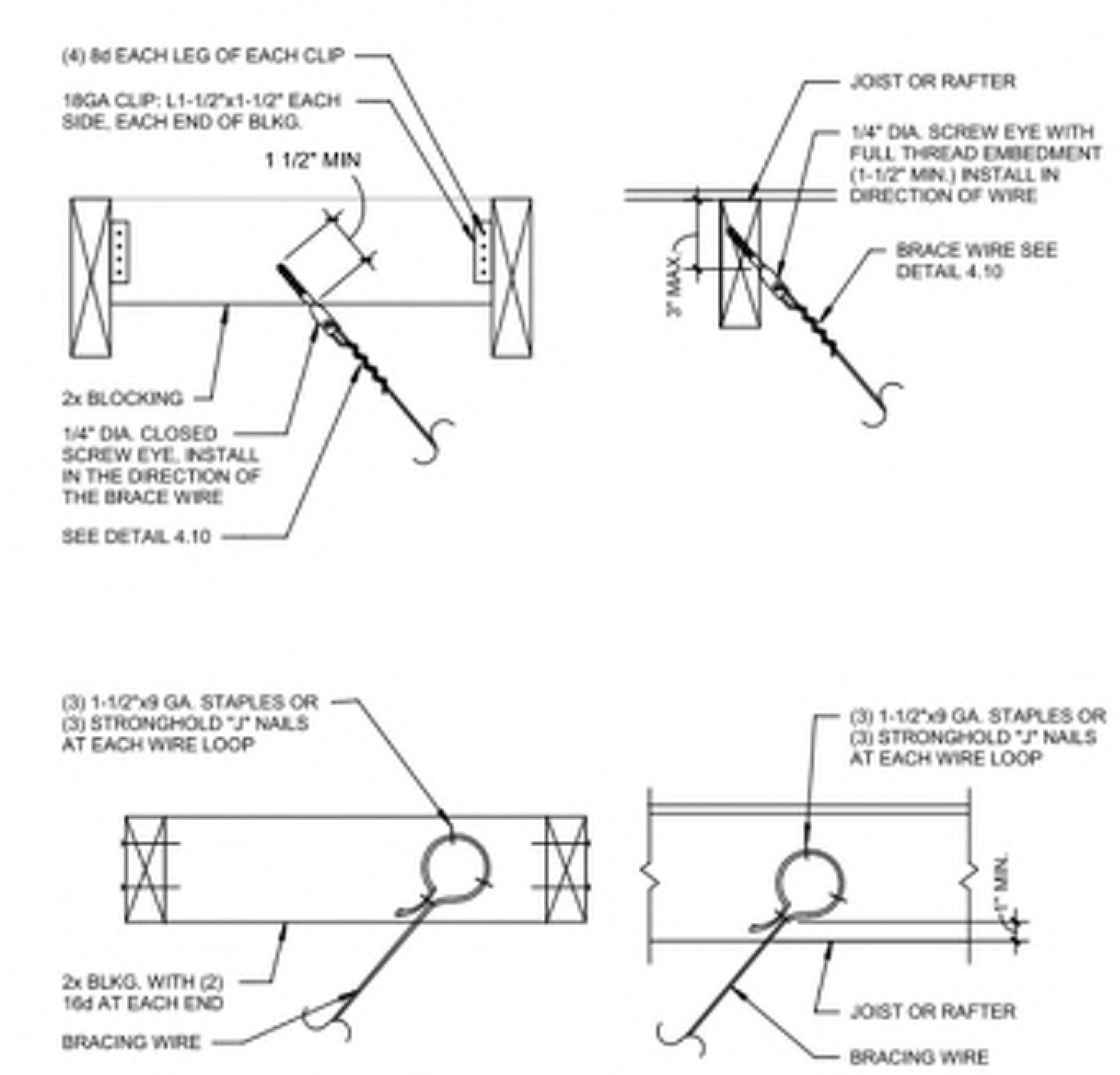
Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
HANGER AND BRACE WIRE CONNECTION - TYP. WIRE TURNS		4.10

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
HANGER WIRE CONNECTION TO SAWN TIMBER		4.25

IR 25-2
SUSPENDED LAY-IN PANEL CEILING: 2019 CBC



Detail Title:	REV: 09/21/2015 REV: 03/2022	Detail No.
BRACE WIRE CONNECTION TO SAWN TIMBER		4.35

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
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1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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SDVOSB

LICENSED ARCHITECT
AUBREY V. STRATTON
NO. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

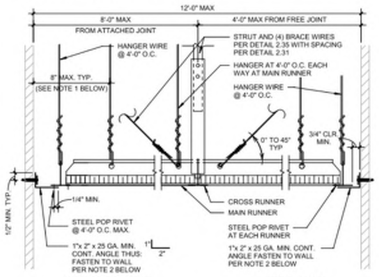
MARK	DATE	DESCRIPTION
__	04.29.2022	DSA SUBMITTAL
__	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

TYPICAL SUSPENDED LAY-IN CEILING DETAILS

A-910

9/27/2022 9:28:47 AM



ATTACHED JOINT **FREE JOINT**

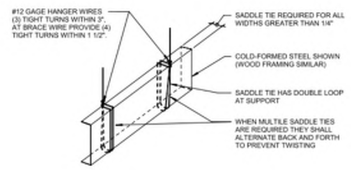
NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. FASTEN ANGLE TO WALL FRAMING AS FOLLOWS:
   A. METAL STUD (20 GA. MIN.) WALL: (1) #10 SMS AT 24" O.C. MAX.
   B. WOOD STUD WALL: #10x2" LONG WOOD SCREW AT 16" O.C. MAX.

[WHERE A PROPRIETARY LATERAL BRACING ASSEMBLY IS SPECIFIED, RDP SHALL PROVIDE DETAILS AND SPECIFICATIONS FOR THE INSTALLATION OF THE ENTIRE ASSEMBLY INCLUDING SPACING, APPROVED GRID MANUFACTURER(S), ATTACHMENT TO THE CEILING GRID, BRACING MEMBER SIZES, ATTACHMENT TO THE FLOOR AND ROOF STRUCTURE, ETC.]

Detail Title:	REV: 09/21/2015	Detail No.
TYP. SECTION AT EXIT CORRIDOR (ESSENTIAL SERVICE BUILDING)	REV: 03/2022	2.50

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACE WIRE DETAIL
BARE METAL DECK	4.20	4.30
CONCRETE OVER METAL DECK	4.21	4.30 & 4.31
CONCRETE SLAB, BEAM, OR JOIST	4.22	4.32
STRUCTURAL STEEL	4.23	4.33
METAL STUD WALL	4.24	4.34
SAWN TIMBER	4.25 & 4.29	4.35
WOOD I-JOIST	4.26	4.36 & 4.37
WOOD CHORD TRUSS	4.27 & 4.29	4.38 & 4.29
OPEN WEB STEEL JOIST	4.28 & 4.29	4.39 & 4.29

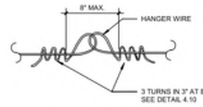
Detail Title:	REV: 09/21/2015	Detail No.
HANGER AND BRACE WIRE CONNECTION TABLE	REV: 03/2022	4.11



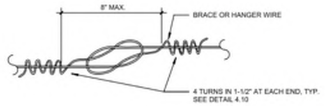
Detail Title:	REV: 09/21/2015	Detail No.
TYPICAL SADDLE TIE DETAIL	REV: 03/2022	4.29

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE DETAIL
BARE METAL DECK	5.20
CONCRETE OVER METAL DECK	5.21
CONCRETE SLAB, BEAM, OR JOIST	5.30
STRUCTURAL STEEL	5.40
SAWN TIMBER WITH GYPSUM BOARD	5.50
SAWN TIMBER WITHOUT GYPSUM BOARD	5.51
WOOD I-JOIST	5.52

Detail Title:	REV: 09/21/2015	Detail No.
COMPRESSION STRUT CONNECTION TABLE	REV: 03/2022	5.10



HANGER WIRE ONLY



HANGER OR BRACE WIRE

NOTES:
1. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.
2. WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION WITHIN THE LOOPS.
3. EACH HANGER AND BRACE WIRE SHALL BE SPLICED NO MORE THAN ONCE ALONG ITS LENGTH.

Detail Title:	REV: 09/21/2015	Detail No.
CEILING WIRE SPLICES	REV: 03/2022	6.10

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APP: 04-121018 INC:
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DATE: 10/25/2022

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LICENSED ARCHITECT SIDNEY R. DAVY No. C28089 REN. 05/31/23 STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
_	04.29.2022	DSA SUBMITTAL
_	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	Author
CHECKED BY:	Checker

TYPICAL SUSPENDED LAY-IN CEILING DETAILS

A-911

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1. GENERAL

1.1 Materials

Materials shall comply with CBC Section 2508 and applicable ASTM standards.

1.1.1 Gypsum board shall be either 1/2 inch or 5/8 inch in thickness.

1.1.2 Cold formed steel (CFS) sections shall be identified by a product designation, which has been standardized by the American Iron and Steel Institute (AISI) in collaboration with the Steel Stud Manufacturers Association (SSMA).

1.1.3 Hanger and brace wires shall conform to American Society for Testing and Materials (ASTM) A641 and the material properties required by *IR 25-1: Maximum Allowable Load for Ceiling Wires.*

1.1.3.1 Hanger wires shall be #12 gauge (0.106 inch diameter) or larger. Turn of wire connections shall consist of a minimum of three turns within a 3-inch length. Loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within the loops in accordance with ASTM E580 Section 5.2.7.2.

1.1.3.2 Brace wires shall be #12 gauge (0.106 inch diameter) or larger. Turn of wire connections shall consist of a minimum of four turns within a 1½-inch length.

1.1.4 Compression struts, when required, shall comply with one of the following. Compression struts are required as a component of lateral bracing assemblies per Section 4.2 below or whenever the code-prescribed seismic loads result in a net upward force on the ceiling.

1.1.4.1 Electrical Metallic Tubing (EMT) material shall conform to the American National Standards Institute (ANSI) C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (F_y) of 30 kips per square inch (ksi) and minimum ultimate strength (F_u) of 48 ksi.

1.1.4.2 Galvanized CFS channel shall conform to ASTM A653 material, or other equivalent ASTM standard listed in Section A3.1 of AISI S100 with a minimum yield strength as follows:

1.1.4.2.1 43 mil (#18 gauge) material and thinner: 33 ksi.

1.1.4.2.2 54 mil (#16 gauge) material and thicker: 50 ksi.

1.1.5 Post-installed anchors (e.g., expansion anchors, screw anchors, power actuated fasteners, etc.) shall have a current evaluation report acceptable to DSA in accordance with *IR A-5: Acceptance of Products, Materials and Evaluation Reports.*

1.2 Construction Details

Typical construction details presented in other resource documents defined in this section are deemed to meet the general requirements of this IR. To be applicable for a specific project the details must be graphically shown on the DSA approved construction drawings. Incorporation by reference is not permitted. Refer to Section 6 below for additional information and requirements relative to project-specific construction documents.

1.2.1 The T-Bar System outlined in Section 2 below may employ applicable construction notes and details published in Appendix A of IR 25-2. These details are also available in electronic format. Refer to IR 25-2 Section 6.2 for additional information. The details published in IR 25-2 were developed for suspended lay-in panel ceilings and require some modification for conversion to appropriate use with suspended gypsum board ceilings, including the following:

1.2.1.1 Throughout the details the graphical representation and specification of lay-in panels should be replaced with gypsum board located beneath and screwed into the bottom flange of the T-bar sections.

1.2.1.2 Details illustrating the dimension of ceiling grid member ends to adjacent walls at the "free joint" condition (e.g., sheets 2.50, 2.60, etc.) when the lateral force bracing system is used shall be revised to 1-inch clear in accordance with Section 4.2.6 below.

1.2.1.3 Details illustrating the maximum dimension of hangers from the edge of the ceiling (i.e., wall or expansion/seismic joint) shall be revised to 6 inches.

1.2.2 The Legacy System outlined in Section 3 below may employ applicable construction notes and details published in the Office of Statewide Health Planning and Development (OSHPD) document OPD-0003-13: 2013 CBC Standard Gypsum Board Ceiling Details for Suspended Joist and Framing Construction. The use of OSHPD Preapproved Details (OPD) is in accordance with IR A-5.

1.3 Ceiling Support Hangers

Suspended ceilings constructed in accordance with either Section 2 or Section 3 below require wire hangers as follows:

1.3.1 Hanger wire material, gauge, and turn of wire connections shall comply with Section 1.1.3 above.

1.3.2 Hanger wire shall be attached to main runners as defined in Section 2 or 3 below.

1.3.3 Hanger wire spacing shall not exceed 4 feet on center in both plan directions.

1.3.4 Hanger wire shall be located at the ends of all main and cross runners within 6 inches of the edge of the ceiling (i.e., wall or expansion/seismic joint) and within one-fourth (1/4) of the length of the end tee, whichever is least. Perimeter wires are not required when the length of the end tee is 6 inches or less.

1.3.5 Hanger wires shall not be out of plumb by more than 1:6 (horizontal to vertical) unless counter-sloping wires are provided in accordance with ASTM C1858 Figure 1. Counter-sloping wires are not allowed unless detailed on the DSA-approved construction documents.

1.3.6 Hanger wires shall be separated at least 6 inches from all unbraced components (e.g., ducts, pipes, conduit, etc.) above the ceiling.

1.3.7 Hanger wires shall be attached to the floor or roof structure above in accordance with ASTM C636. Sheets 4.20 through 4.29 provided in Appendix A of IR 25-2 are acceptable means of connecting hanger wires to the structure.

1.3.8 Where obstructions occur above the ceiling, trapeze or other supplementary supports are required to maintain the required hanger spacing. Sheets CG6.10 and CG6.20 of OPD-0003-13 show acceptable means of supporting hanger wires at obstructions.

1.3.9 Provide additional hanger wires as required at expansion joints, discontinuities, breaks, or other special conditions.

1.3.10 Where post-installed anchors supporting hanger wires are installed in existing concrete, construction embedment depths shall be designed to avoid existing reinforcement. Special care shall be taken to protect the tendons in prestressed concrete.

1.4 Access Panels

Access to the space between the ceiling and the floor or roof above is not permitted. A ceiling that is required by the CBC to be accessible shall be designed by the responsible design professional to meet the applicable requirements of CBC Sections 1607A and 2508.1, and ASCE 7 Section 13.3.1.

1.4.1 Small access panels for the inspection, adjustment or repair of utility switches, valves, sensors, etc. may be allowed if the panel is less than 300 square inches.

1.4.2 Small access panels shall have a permanently attached warning label stating the following: "Warning: Do not climb, walk, or crawl on the gypsum board ceiling panels or metal framing. Do not store or stow anything on the gypsum board ceiling panels or metal framing."

1.4.3 If fire fighter access is required per CBC Section 1209.2 in attics of combustible construction, the prescriptive suspended ceiling systems prescribed in this IR are not applicable, and the ceiling shall be designed and framed for such loading.

1.5 Ceiling Luminaires, Services and Other Devices

Suspended gypsum board ceilings shall not support building components other than luminaires, HVAC terminals, flexible sprinkler hose fittings, or other lightweight devices weighing 20 pounds or less such as strobe lights, occupancy sensors, exit signs, etc. Luminaires, HVAC terminals, flexible sprinkler hose fittings, and other lightweight devices are referred to in this section generally as fixtures.

1.5.1 Fixtures shall be mounted to resist gravity loads in accordance with this section in a manner that will not compromise the ceiling performance. Independent supports as required by Sections 1.5.1.4 and 1.5.1.5 below shall have a capacity to resist four times the weight of the fixture.

1.5.1.1 No gravity loads other than the gypsum board weight shall be applied to the typical cross runners or cross furring. Additional cross runners or cross furring members may be added to the system and specifically dedicated to the support of fixtures.

1.5.1.2 Gypsum board shall not support any fixture.

1.5.1.3 Fixtures weighing 20 pounds or less may be supported by main runners or by supplemental framing connected to the main runners. Fixtures weighing more than 10 pounds shall have a minimum of one #12-gauge safety wire connected from the fixture to the structure above. Safety wires are not required to be taut.

1.5.1.4 Fixtures weighing 56 pounds or less but more than 20 pounds shall be independently supported to the structure above by not less than two taut #12-gauge wires. Other means of supporting the fixture independent of the ceiling system are acceptable when approved by DSA.

1.5.1.5 Fixtures weighing more than 56 pounds shall be independently supported to the structure above by not less than four taut #12-gauge wires. Other means of supporting the fixture independent of the ceiling system are acceptable when approved by DSA.

1.5.2 Fixtures shall be positively attached to the ceiling suspension system by mechanical means to resist a horizontal force equal to the weight of the fixture. The total weight of the suspended ceiling system inclusive of all fixtures resisted by its seismic force resisting system as described in Section 4 below shall not exceed 4 PSF.

1.5.2.1 A minimum of two screws or approved fasteners are required at each fixture.

1.5.2.2 Surface-mounted fixtures shall be attached to main runners with positive clamping devices complying with the following:

1.5.2.2.1 Provide at least two positive clamping devices on each fixture. Provide additional devices for fixtures exceeding 56 pounds or 8 feet in length.

1.5.2.2.2 Clamping device shall completely surround the supporting ceiling runner.

1.5.2.2.3 Clamping device shall be made of steel with a minimum thickness of #14 gauge.

1.5.2.2.4 Rotational spring catches are not compliant.

1.5.2.2.5 Spacing of clamping device shall not exceed 8 feet.

1.5.2.3 When seismic forces are resisted by lateral force bracing assemblies per Section 4.2 below, fixtures shall comply with ASTM E580 Sections 5.3 and 5.4.

1.5.3 When code-prescribed seismic forces induce lateral movement of the suspended ceiling of ¼ inch or more, penetrations through the ceiling for sprinkler heads and other similar devices that are not integrally tied to the ceiling system in the lateral direction shall comply with one of the following per ASTM E580 Section 5.2.8.5:

1.5.3.1 Provide a 2-inch oversized ring, sleeve, or adapter through the gypsum board to allow free movement of 1 inch in all horizontal directions.

1.5.3.2 Provide a flexible sprinkler hose fitting that can accommodate 1 inch of ceiling movement.

1.5.4 Pendant Luminaires: Comply with *IR 16-9: Pendant Luminaires.*

1.6 DSA Acceptance of Evaluation Reports

At the discretion of DSA, proprietary systems may be accepted as follows:

1.6.1 Acceptance will be granted on a project-specific basis.

1.6.2 Proprietary systems must meet the requirements of CBC.

1.6.3 Proprietary systems must have valid evaluation reports meeting the provisions of IR A-5.

2. T-BAR SYSTEM

2.1 Vertical Support System

2.1.1 Ceiling suspension system and its components shall comply with ASTM C635, ASTM C645, the applicable sections of ASTM E580, and the product's evaluation report. Ceiling system shall be installed in accordance with ASTM C636 and ASTM E580 Section 5.2.

2.1.2 Main runner spacing shall not exceed 4 feet on center and the ceiling area supported by each hanger wire shall not exceed 16 square feet. Hanger wires shall comply with Section 1.3 above.

2.1.3 Main runners shall be heavy duty "T" shaped sections in accordance with ASTM C635.

2.1.3.1 Heavy duty main runners shall be capable of carrying an equivalent uniform load of 16 pounds per linear foot (PLF).

2.1.3.2 Wire attachments to main runners shall be made in pre-punched holes or holes drilled in accordance with the manufacturer's installation requirements.

2.1.4 Cross runners shall be "T" shaped sections with sufficient capacity to support the screw-attached gypsum board and meeting the following requirements:

2.1.4.1 Cross runners shall be spaced no further than 24 inches on center.

2.1.4.2 Cross runners shall meet the deflection criteria of ASTM C635 Section 4.2.

2.1.4.3 Cross runners shall be connected to main runners in accordance with the manufacturer's requirements.

2.1.4.4 Hanger wires are required at the ends of cross runners greater than 6 inches in length adjacent to the edge of the ceiling (i.e., wall or expansion/seismic joint).

2.1.5 Main runners, cross runners, splices, expansion devices, and intersection connectors shall be designed to carry a mean ultimate test load of not less than 180 pounds in compression and tension per ASTM E580 Section 5.1.2.

2.1.6 Main and cross runners shall have a bottom flange width of 1-1/4 inches or larger to provide sufficient attachment of the gypsum board at panel edges.

2.2 Seismic Force Resistance

Suspended gypsum board ceilings using the T-Bar System shall have a system to resist seismic loads in accordance with Section 4 below.

Exception: Suspended ceiling systems with an area of 144 square feet or less surrounded by walls that are laterally braced to the structure above do not require lateral bracing assemblies per Section 4.2 below nor diaphragm analysis per Section 4.3 below.

3. LEGACY SYSTEM

3.1 Vertical Support System

3.1.1 Main runner spacing shall not exceed 4 feet on center and the ceiling area supported by each hanger wire shall not exceed 16 square feet. Hanger wires shall comply with Section 1.3 above.

3.1.2 Main runner size, spacing, and spans shall comply with ASTM C754 Table 7. The main runner most frequently used is a 1-1/2-inch cold-rolled channel conforming to SSMA designation 150U050-54, weighing 0.414 PLF, and spaced no more than 4 feet on center maximum.

3.1.3 Cross furring shall be 7/8-inch galvanized steel hat channel sections conforming to SSMA designation 087F125-18 and spaced at 24 inches on center maximum.

3.1.4 Hanger wires shall be saddle-tied to the main runners. Refer to IR 25-2 Appendix A, Sheet 4.29 or OPD-0003-13, Sheet CG2.31 for acceptable saddle tie details.

3.1.5 Cross-furring shall be saddle-tied to the main runners with at least one strand of #16-gauge or two strands of #18-gauge wire. Refer to OPD-0003-13, Sheet CG2.32 for an acceptable saddle tie detail.

3.1.6 Main runners shall be spliced by lapping and interlocking flanges and installing two #8 sheet metal screws at each end of splice (four screws total). The lap shall be 12 inches long minimum. Refer to OPD-0003-13, Sheet CG2.31 for an acceptable splice detail.

3.1.7 Cross-furring shall be spliced by lapping and interlocking the pieces and installing two #8 sheet metal screws at each end of splice (four screws total). The lap shall be 8 inches long minimum. Refer to OPD-0003-13, Sheet CG2.31 for an acceptable splice detail.

3.2 Seismic Force Resistance

Suspended gypsum board ceilings using the Legacy System shall have a system to resist seismic loads in accordance with Section 4 below.

Exception: Suspended ceiling systems with an area of 144 square feet or less surrounded by walls that are laterally braced to the structure above do not require bracing assemblies per Section 4.2 below nor diaphragm analysis per Section 4.3 below.

4. SEISMIC FORCE RESISTING SYSTEM

Suspended gypsum board ceilings shall resist the seismic forces resulting from the mass of the ceiling itself. The ceilings and their seismic force resisting system shall not resist seismic forces resulting from the mass of other components, such as partition walls.

4.1 General Requirements

4.1.1 Seismic loads are permitted to be resisted by either of the systems defined in this Section as follows:

4.1.1.1 Lateral force bracing assemblies in accordance with Section 4.2 below.

4.1.1.2 Diaphragm system in accordance with Section 4.3 below.

4.1.2 Either or both options may be specified on the DSA-approved construction drawings. If both options are provided on the construction drawings as options, only one option can be used for each separate ceiling area.

4.1.3 Fire-resistance-rated systems shall be installed per their listing (i.e., Underwriter Laboratories [UL], Factory Mutual [FM], etc.) and the manufacturer's installation instructions, which may dictate the lateral system used.

4.2 Lateral Force Bracing

Lateral force bracing assemblies shall comply with ASTM E580 as modified by ASCE 7 Section 13.5.6 and CBC Section 1617A.1.21.

4.2.1 Lateral force bracing assemblies shall consist of a compression strut and four #12-gauge splayed bracing wires oriented 90 degrees from each other.

4.2.1.1 For the T-Bar System per Section 2 above refer to IR 25-2 Appendix A, Sheet 2.35.

4.2.1.2 For the Legacy System per Section 3 above refer to OPD-0003-13, Sheet CG2.10.

4.2.2 Lateral force bracing assemblies shall be spaced, per Table 1 below for all values of the component importance factor (I_p) of the ceiling. Where different brace spacing is specified at various stories, the respective ceiling plan shall clearly indicate the brace spacing.

4.2.2.1 For the T-Bar System per Section 2 above refer to IR 25-2 Appendix A, Sheets 2.10 through 2.12.

4.2.2.2 For the Legacy System per Section 3 above refer to OPD-0003-13, Sheets CG2.20 through CG2.22.

TABLE 1: LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter, (S_{DS})	Brace Assembly Spacing	
	z/h ≤ 0.5[a]	z/h > 0.5[a,b]
$S_{DS} \le 1.15$	12'-0" x 12'-0"	12'-0" x 12'-0"
$1.15 < S_{DS} \le 1.73$	12'-0" x 12'-0"	8'-0" x 12'-0"
$S_{DS} > 1.73$	8'-0" x 12'-0"	8'-0" x 8'-0"

Footnotes:

a) Where, as defined in ASCE 7 Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base.
h = average roof height of the structure with respect to the base.
b) It shall be permitted to use the brace assembly spacing for "z/h > 0.5" for the full building height.

4.2.3 There shall be a brace assembly a distance of not more than one-half (1/2) of the spacing listed in Table 1 above from each surrounding wall, expansion joint, and edge of any ceiling vertical offset. For example, where the brace spacing is 8 feet by 12 feet, the edge distance shall be 4 feet in the direction of the 8-foot spacing and 6 feet in the direction of the 12-foot spacing.

4.2.4 Bracing wires shall be taut and their slope shall not exceed 45 degrees from the plane of the ceiling.

4.2.5 Bracing wire material, gauge, and turn of wire connections shall comply with Section 1.1.3 above.

4.2.5.1 Bracing wires shall be separated at least 6 inches from all unbraced components (e.g., ducts, pipes, conduit, etc.) above the ceiling.

4.2.5.2 Screw-type anchors (i.e., screws, lag screws, eye screws, etc.) supporting brace wires and installed in wood structure shall be installed to align as closely possible with the direction of the wire. Clips supporting bracing wires shall be bent and rotated as required to align closely with the direction of the wire.

4.2.5.3 Splices in bracing wires are not permitted unless detailed on the DSA-approved construction documents. Splices in bracing wires shall develop the wire allowable load. No more than one splice is allowed in each hanger wire. Refer to IR 25-2 Appendix A, Sheet 6.10 for an acceptable wire splice detail.

4.2.5.4 The attachment of bracing wire to main runner shall not be more than 2 inches away from the compression strut.

4.2.5.5 Power actuated fasteners in concrete are not permitted to support bracing wires.

4.2.5.6 Where custom connections are required, attachment of the bracing wires shall be adequate for the load imposed. The ceiling weight shall not be taken as less than 4 PSF for calculating seismic forces in accordance with ASCE 7 Chapter 13.

4.2.6 Ceiling grid members shall be connected to two adjacent walls and disconnected from the two opposite walls per ASTM E580 Section 5.2.3. Ceiling grid members shall be at least 1-inch clear of the disconnected walls.

4.2.6.1 If walls run diagonally to ceiling grid system runners, one end of the main and cross runners shall be disconnected and a minimum of 1-inch clear of the wall.

4.2.6.2 The width of the perimeter supporting closure angle shall be not less than 2 inches. Use of angles with smaller widths in conjunction with proprietary perimeter clips may be acceptable in accordance with Section 1.6 above.

4.2.6.3 The closure angle shall be attached to the wall directly to studs spaced at no more than 24 inches on center.

4.2.7 Compression struts shall meet the following requirements:

4.2.7.1 Struts shall be sized to adequately resist the sum of the vertical component of the bracing wire force and the vertical seismic force. The slenderness (kl/r) ratio of struts shall not exceed 300. Sections listed in IR 25-2 Appendix A, Sheet 3.21 meet this requirement for the maximum lengths listed.

4.2.7.2 Compression strut material shall comply with Section 1.1.4 above.

4.2.7.3 The strut shall not be out of plumb by more than 1:6 (horizontal to vertical).

4.2.7.4 Compression struts weighing more than 10 pounds or longer than 10 feet shall be provided with a #12-gauge safety wire connected to the structure above. Safety wires are not required to be taut.

4.2.7.5 Compression struts shall be separated at least 6 inches from all unbraced components (e.g., ducts, pipes, conduit, etc.) above the ceiling.

4.2.8 Expansion and seismic separation joints shall be provided as follows:

4.2.8.1 Expansion joints shall be provided in the ceiling at intersections of corridors and at junctions of corridors and lobbies or other similar areas.

4.2.8.2 For ceiling area exceeding 2,500 square feet, a seismic separation joint shall be provided to divide the ceiling into areas not exceeding 2,500 square feet in accordance with ASTM E580 Section 5.2.9.

4.3 Diaphragm System

A suspended gypsum board ceiling may be designed as a horizontal diaphragm to resist its own seismic loads as prescribed in this section.

4.3.1 As prohibited by CBC Section 2508.6.6, gypsum board shall not be used in diaphragm ceilings to resist lateral forces imposed by partitions.

4.3.2 Horizontal gypsum board ceiling diaphragm proportions shall comply with CBC Section 2508.6.1, including the maximum span-to-depth ratio of 1.5:1.

4.3.3 There shall be no steps or vertical offsets in the ceiling plane within the span of the gypsum board diaphragm.

4.3.4 The gypsum board installation shall comply with ASTM C840.

4.3.5 An allowable diaphragm shear equal to 50 PLF is permitted for allowable stress design when the gypsum board is fastened to the cross furring with Hi-Lo Type S or S-12 bugle head screws complying with the following conditions:

4.3.5.1 Screw size: #6 (0.136-inch diameter) or larger.

4.3.5.2 Screw length: 1 inch or 1-1/4 inch.

4.3.5.3 Screw spacing: 12 inches on center maximum at all gypsum board edges and intermediate supports.

4.3.5.4 Screw edge distance: 3/8 inch minimum.

4.3.6 A complete load path for the seismic loads transferred by the gypsum board diaphragm to the primary lateral force resisting system (e.g., diaphragm, shear wall, etc.) must be provided and substantiated.

4.3.7 Ceiling diaphragm forces may be resisted through walls sheathed with gypsum board fastened in accordance with Section 4.3.5 above, which can be used to resist 50 PLF in the plane of the wall. The maximum height-to-width ratio of gypsum sheathed walls used for this purpose shall not exceed 1:1.

4.3.8 Details are required to demonstrate the seismic load transfer from the gypsum board ceiling to the primary lateral force resisting system on all four sides of the diaphragm.

5. EXISTING CEILING ALTERATION

5.1 Cut or Altered

Where any portion of an existing suspended ceiling is cut or altered, the entire ceiling in the affected space shall be evaluated to the provisions of the current applicable codes, standards, and this IR. When the evaluation identifies a deficiency, the existing ceiling shall be upgraded to conform to the current provisions.

5.1.1 Where the existing suspended ceiling has lateral force bracing assemblies spaced in compliance with Table 1 above, an evaluation and upgrade of the entire ceiling shall be required only if the area of alteration exceeds 10 percent of the entire ceiling area.

5.1.2 For the purpose of determining upgrade requirements, the "entire" ceiling in the affected space is defined as the area of ceiling bounded by four walls or a combination of walls and expansion or seismic separation joints.

5.1.3 With DSA concurrence, other existing lateral force bracing systems may be deemed equivalent to a four-way splay wire and compression post lateral force bracing system.

5.2 Replacement in Kind

Where the ceiling grid is not cut or altered and the scope of work complies with the following, an upgrade of the ceiling, suspension system, and lateral force bracing assemblies is not required:

5.2.1 Replacement of luminaires or fixtures with units of equal size and equal or lesser weight placed in the same location.

5.3 Reuse of Existing Ceiling Wires

Existing ceiling hanger and bracing wires may be reused provided they comply with the following:

5.3.1 The gauge and spacing of wires must comply with the current applicable codes, standards, and this IR.

5.3.2 Where a new wire is to be spliced to an existing wire, the design professional in general responsible charge must prepare and obtain DSA approval of a detail defining how the splice is to be made. Detail 6.10 provided in Appendix A of IR 25-2 is an acceptable means of splicing hanger or brace wires.

5.3.3 Existing hanger and bracing wire assemblies shall be tested in accordance with Section 7.3 below.

6. CONSTRUCTION DOCUMENTS

6.1 General Requirements

The items listed in this section are required to be provided in the construction documents where applicable to the project scope. This list includes items common to most projects but is not all-inclusive for every project.

6.1.1 Additional information and/or details may be required on the construction documents for a specific project for specialty conditions, configurations, products, etc.

6.1.2 It is not permitted to reproduce this IR on the construction documents as a means to meet these requirements.

6.2 Ceiling Systems

When the T-Bar System described in Section 2 above is used, a list of acceptable grid systems must be shown on the construction documents and shall specify the following for each acceptable grid system:

6.2.1 Manufacturer. `Armstrong World Industries`

6.2.2 Product name. `Prelude XL 15/16" Exposed Tee`

6.2.3 Evaluation report number. `ASTM C 635 Heavy Duty`

6.2.4 Main and cross runner part, model, or catalog numbers. `Prelude XL 7301`

6.2.5 Seismic wall clip when applicable. `BERC2`

6.3 Suspension System

The ceiling suspension system and its anchorage to the structure shall be fully detailed.

6.3.1 Where accepted proprietary components are utilized, the details on the construction documents shall be in compliance with all evaluation report requirements.

6.3.2 Trapeze or other supplementary support members provided so that typical hanger spacing can be maintained while avoiding obstructions shall be shown on the construction documents.

6.4 Lateral System

The system used to resist the seismic load of the suspended gypsum board ceiling shall be fully detailed.

6.4.1 Lateral Force Bracing Assemblies: The lateral force bracing system, including bracing wires, compression struts, anchorage to the structure, expansion/seismic separation joints, and other requirements of Section 4.2 above, shall be fully detailed. The bracing assembly spacing at each floor and roof level must be clearly specified.

6.4.2 Diaphragm: The diaphragm system requirements of Section 4.3 above shall be specified and fully detailed.

6.5 Luminaires, Services and Devices

Anchorage, support, and bracing details for all luminaires, terminals, flexible fire sprinkler hose fittings, and other devices shall be provided in compliance with the requirements of this IR.

6.6 Partition Walls

The construction documents shall include partition wall details that demonstrate an independent lateral load path and ensure the partition walls do not impose additional lateral forces on the ceiling.

6.7 Construction Details

Typical construction details presented in other resource documents are deemed to meet the general requirements of this IR.

6.7.1 Refer to Section 1.2 above for cited resources. All qualifications contained in the resource document are also applicable to use in accordance with this IR.

6.7.2 When details from an appropriate reference document are used, they shall be incorporated into the construction drawings submitted for DSA approval. Incorporation by reference alone is not permitted.

7. TESTING

7.1 General

All field testing must be performed in the presence of the project inspector or a special inspector. Slack safety wires required for luminaires, services, or other devices shall be considered hanger wires for testing requirements.

7.2 New Ceiling Wires

Installation of new hanger and bracing wires requires testing as follows. These testing requirements shall be indicated on the construction documents.

7.2.1 Post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

7.2.2 Hanger Wires: Post-installed anchors in concrete used to fasten hanger wires shall be tested at a frequency of 10 percent.

7.2.2.1 Tension test load shall be 200 pounds minimum.

7.2.2.2 When allowed by its evaluation report, anchors may be torque tested. Power actuated fasteners shall be tension tested; torque testing is not allowed.

7.2.3 Bracing Wires: Post-installed anchors in concrete used to fasten bracing wires shall be tested at a frequency of 50 percent.

7.2.3.1 Tension test load shall be 440 pounds minimum.

7.2.3.2 Power actuated fasteners in concrete are not permitted for bracing wires.

7.2.4 If any post-installed anchor fails testing additional testing is required in accordance with CBC Section 1910A.5.

7.3 Reuse of Existing Ceiling Wires

Existing hanger and bracing wires to be reused in accordance with Section 5.3 above shall be tested as follows. These testing requirements shall be indicated on the construction documents.

7.3.1 All existing ceiling hanger wire/anchor assemblies must be field tested to 200 pounds.

7.3.2 All existing bracing wire/anchor assemblies must be field tested to 440 pounds.

7.3.3 Where a new wire is spliced to an existing wire, each spliced wire/anchor assembly must be field tested to the loads given for existing assemblies above.

REFERENCES:

2019 California Code of Regulations (CCR) Title 24
Part 2: California Building Code (CBC), Sections 1617A.1.21, 1910A.5, 2506, 2508

This IR is intended for use by DSA staff and by design professionals to promote statewide consistency for review and approval of plans and specifications as well as construction oversight of projects within the jurisdiction of DSA, which includes State of California public schools (K–12), community colleges and state-owned or state-leased essential services buildings. This IR indicates an acceptable method for achieving compliance with applicable codes and regulations, although other methods proposed by design professionals may be considered by DSA.

This IR is subject to revision at any time. Please check DSA's website for currently effective IRs. Only IRs listed on the webpage at https://www.dgs.ca.gov/dsa/publications at the time of project application submittal to DSA are considered applicable.

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NOTE: DETAILS FOR SUSPENDED GYPSUM BOARD GRID SYSTEM THE SAME AS THE LAY-IN CEILING, PER SHEETS A-910 & A-911

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY
ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

AUBREY V. STRATTON
NO. C28095
REN. 05/31/23

Mountain Empire Unified
School District

Project No.2017

Mountain Empire
Junior High School
Site Modernization

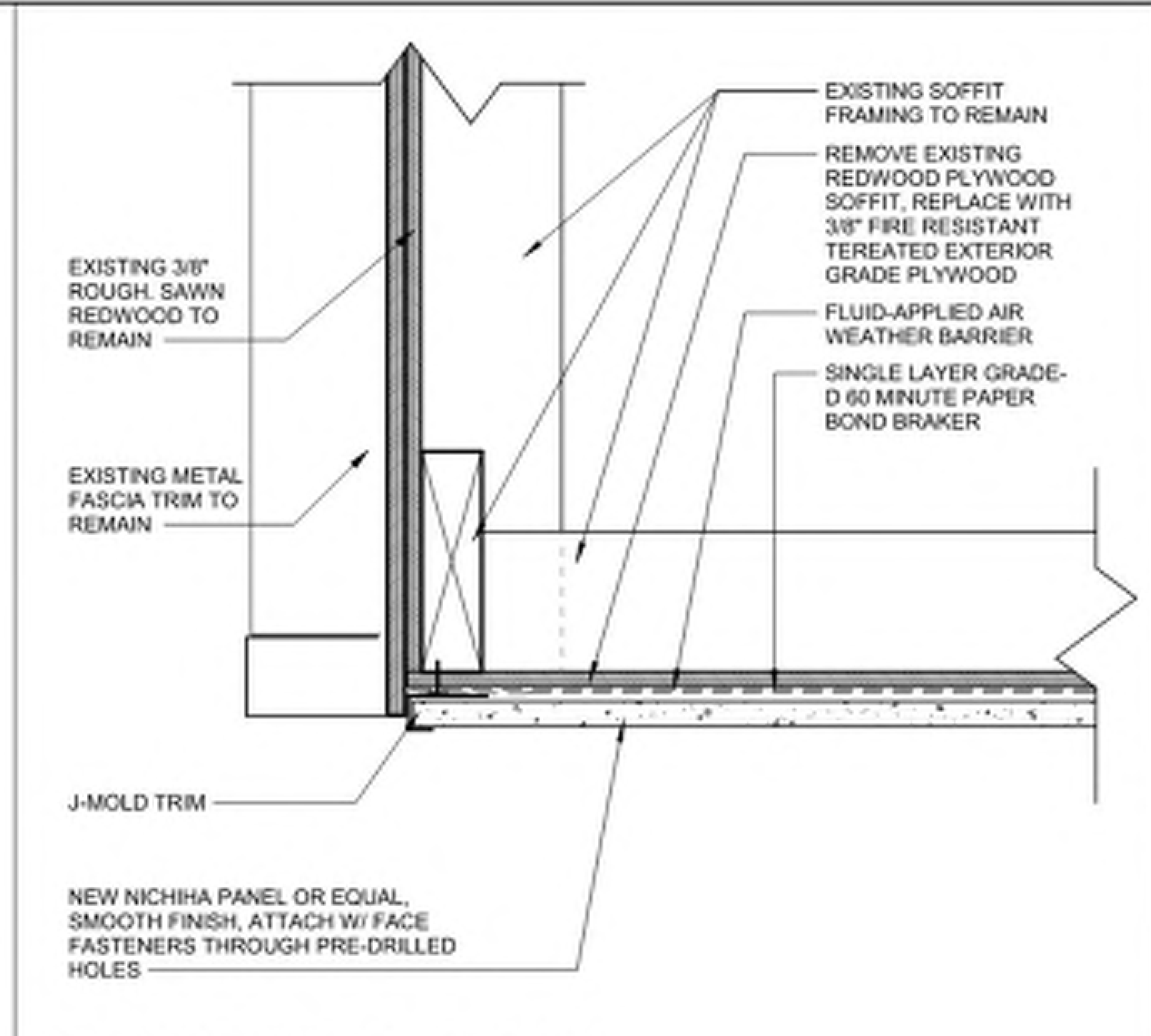
3305 Buckman Springs Rd, Pine Valley, CA
91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: Author
CHECKED BY: Checker

TYPICAL
SUSPENDED
GYPSUM BOARD
CEILING

A-912



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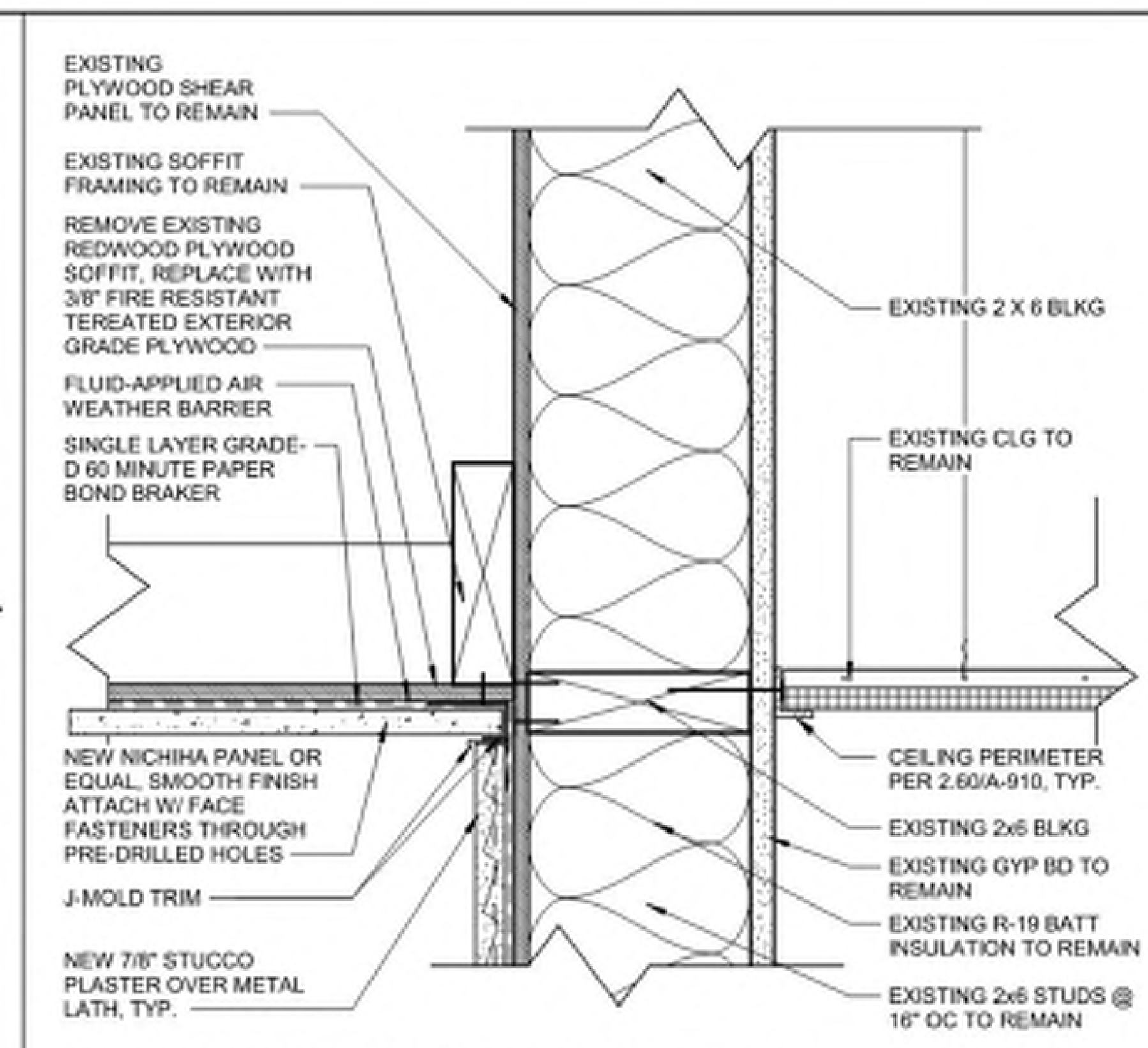

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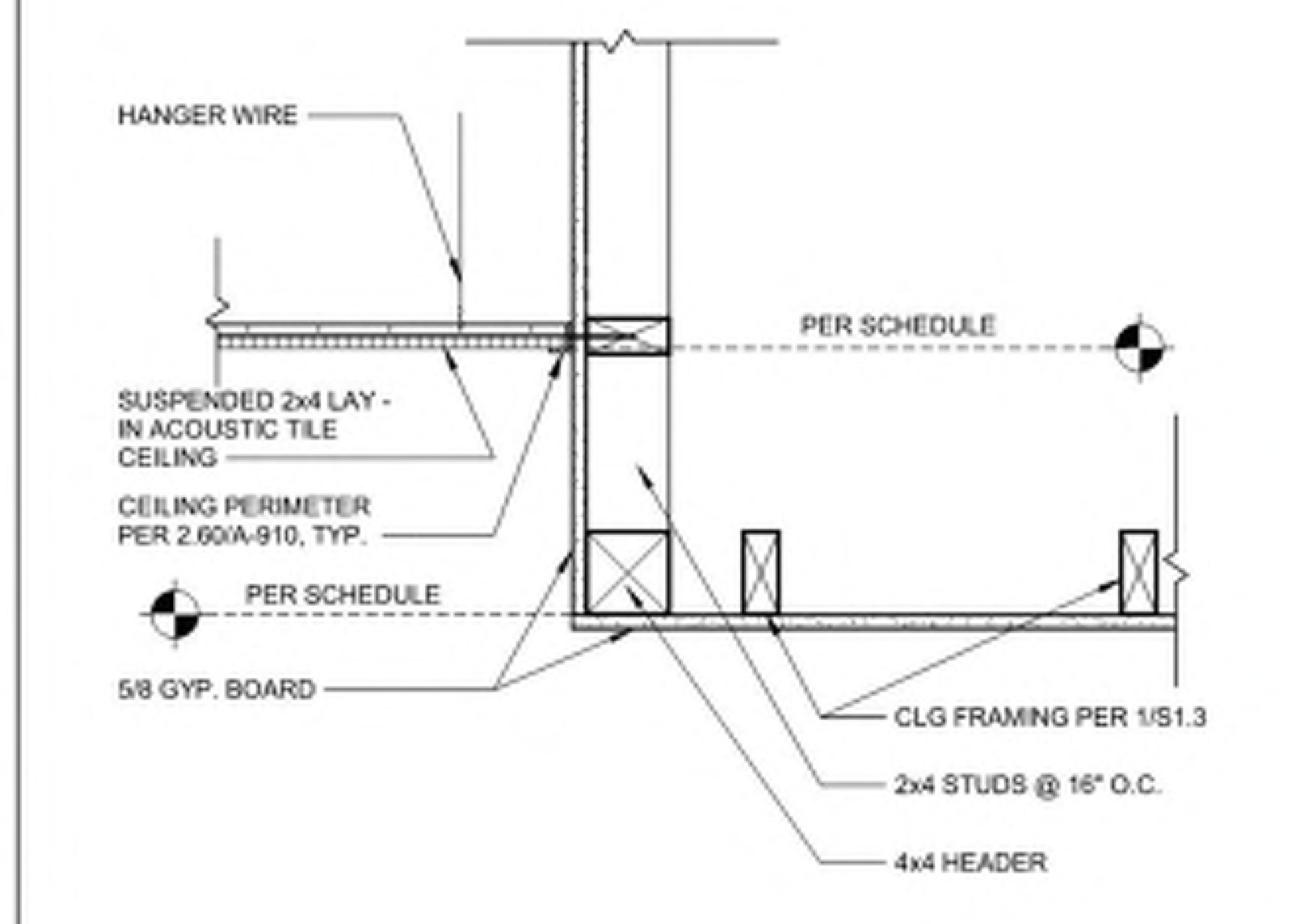

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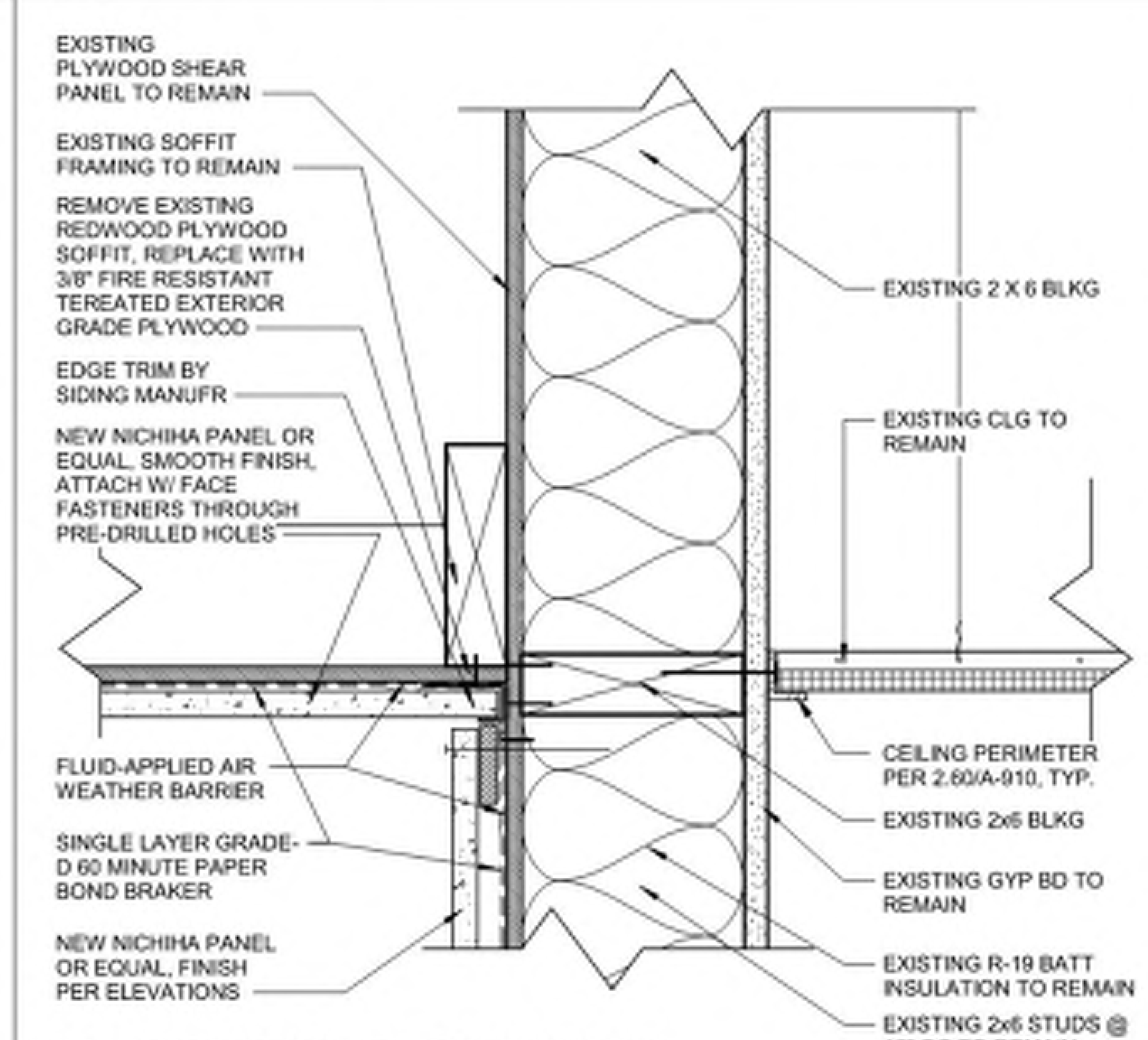

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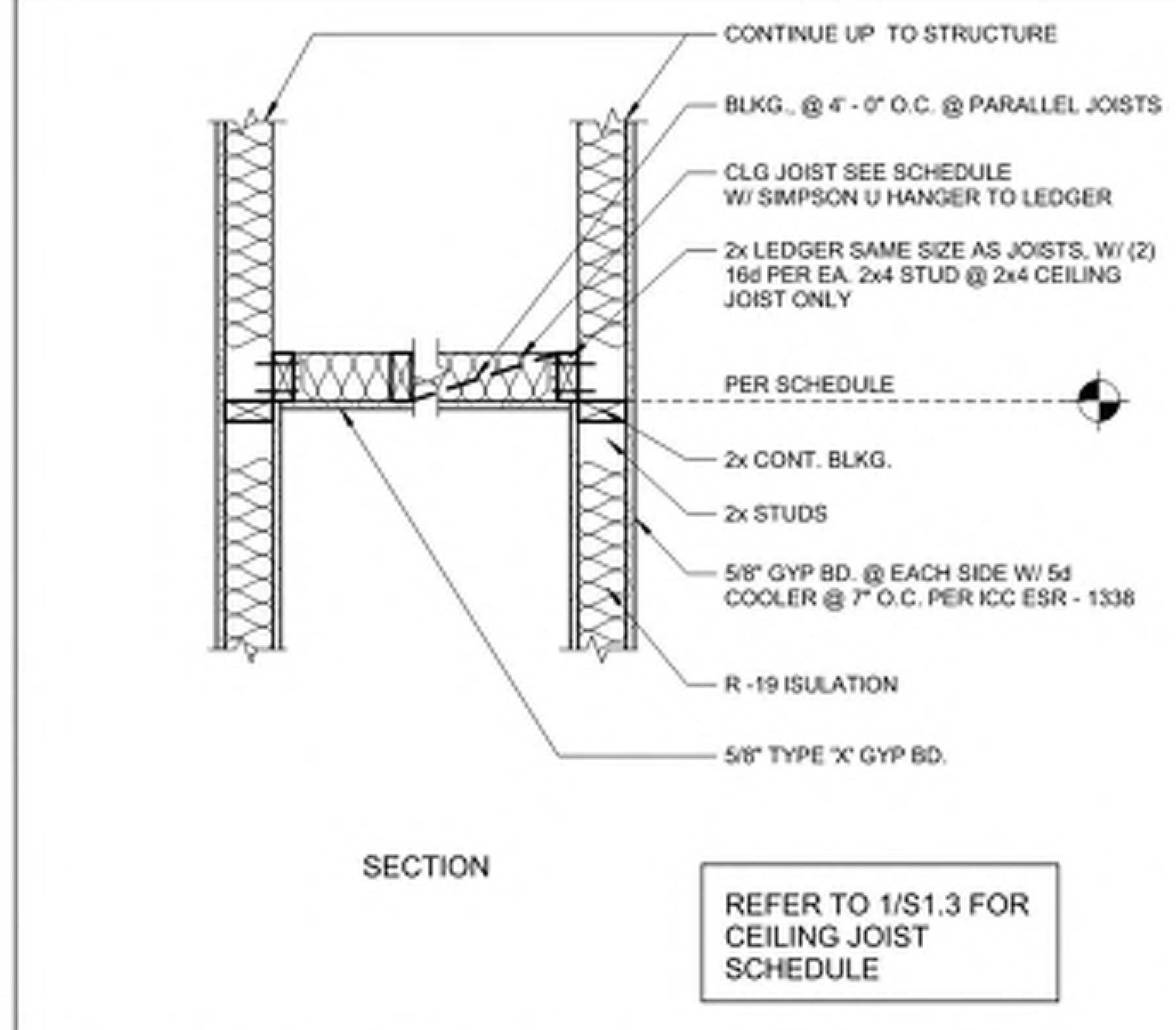

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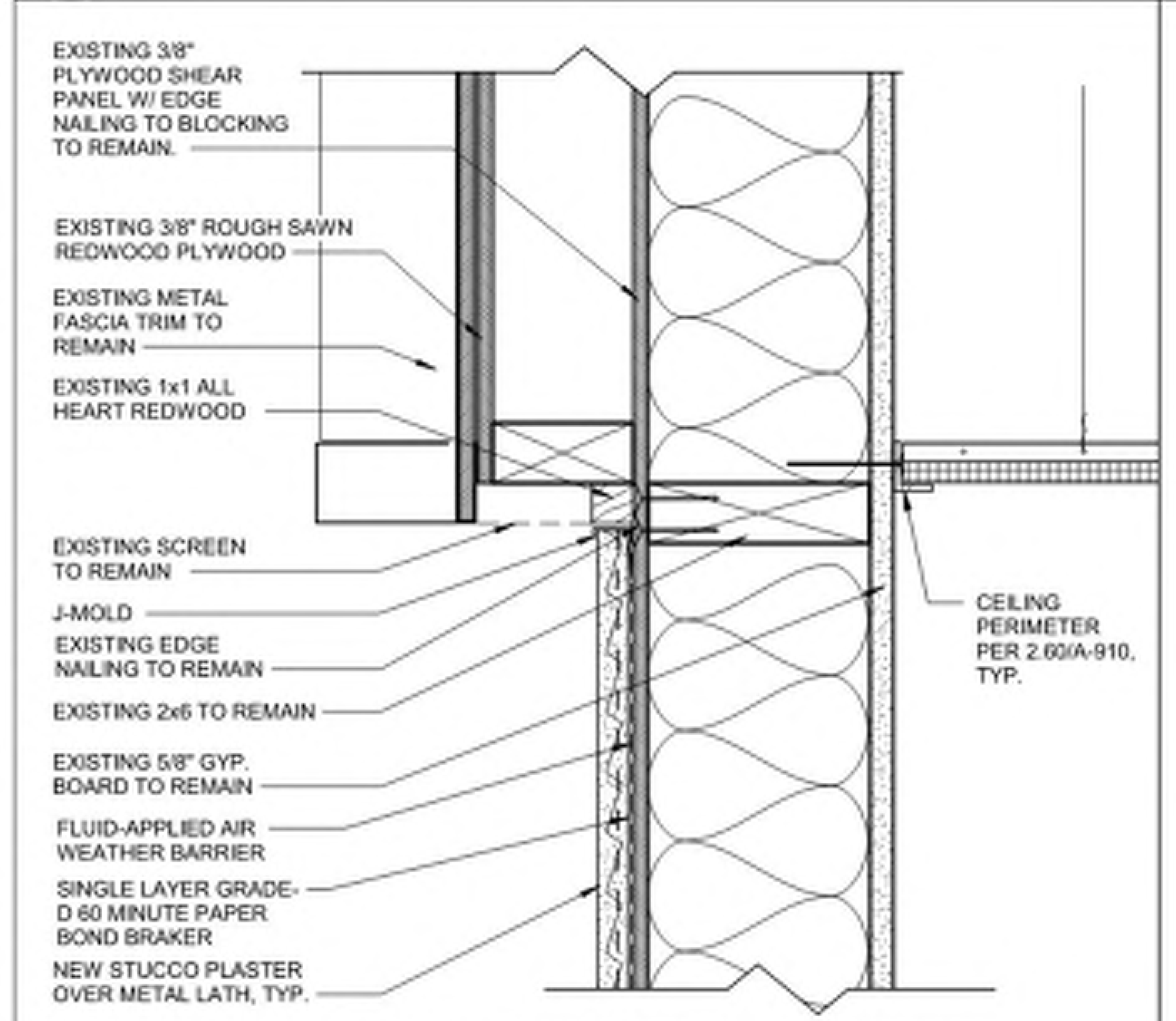

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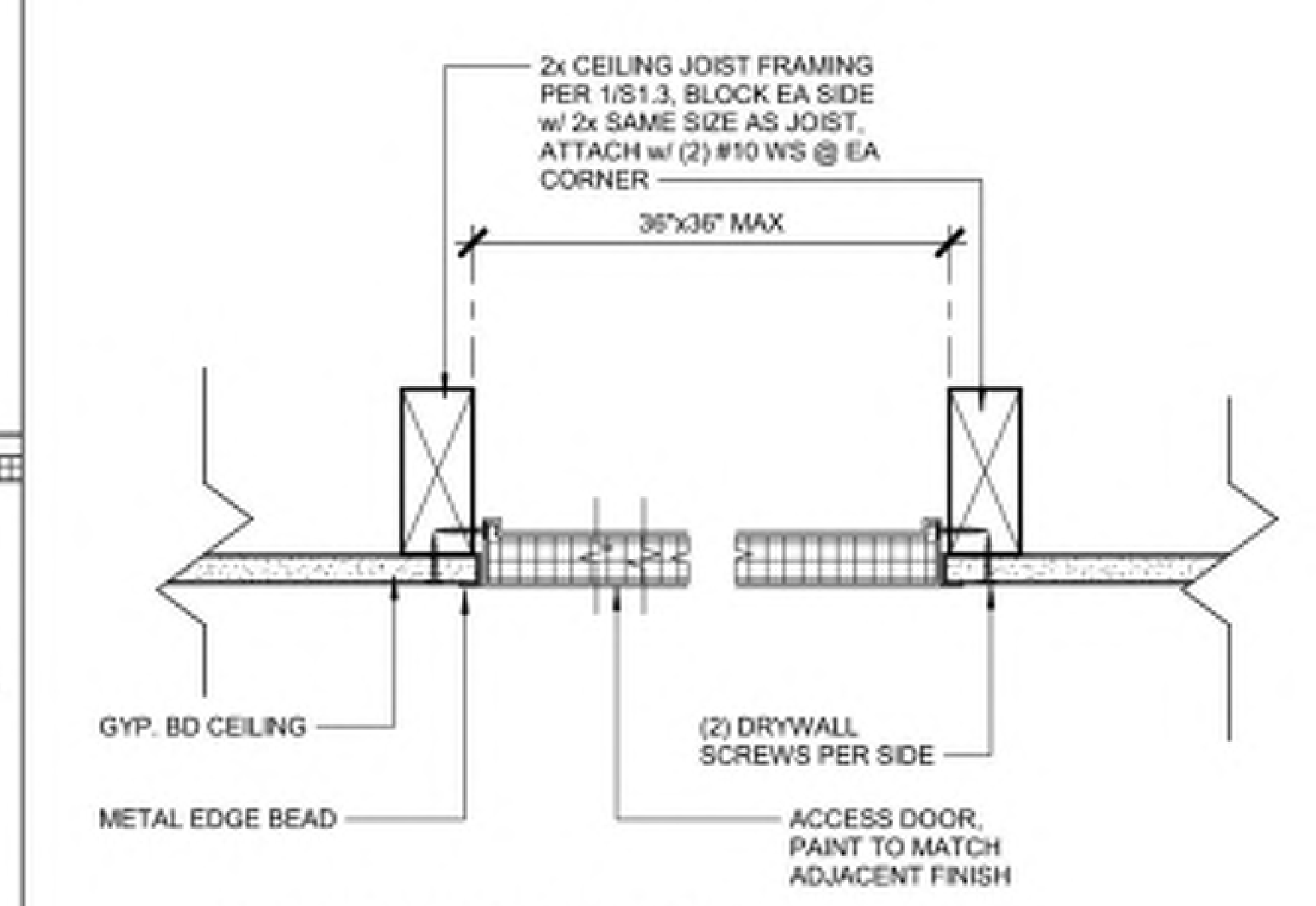

NOTE: PANEL SIZE NOT TO EXCEED 300 SQUARE INCHES.
PROVIDE PERMANENT WARNING LABEL AS FOLLOWS.
1. DO NOT CLIMB, WALK, OR CRAWL ON THE GYP.BD. CEILING.
2. DO NOT STORE OR STOW ANYTHING ON THE GYP.BD CEILING

CSI # 08 31 13

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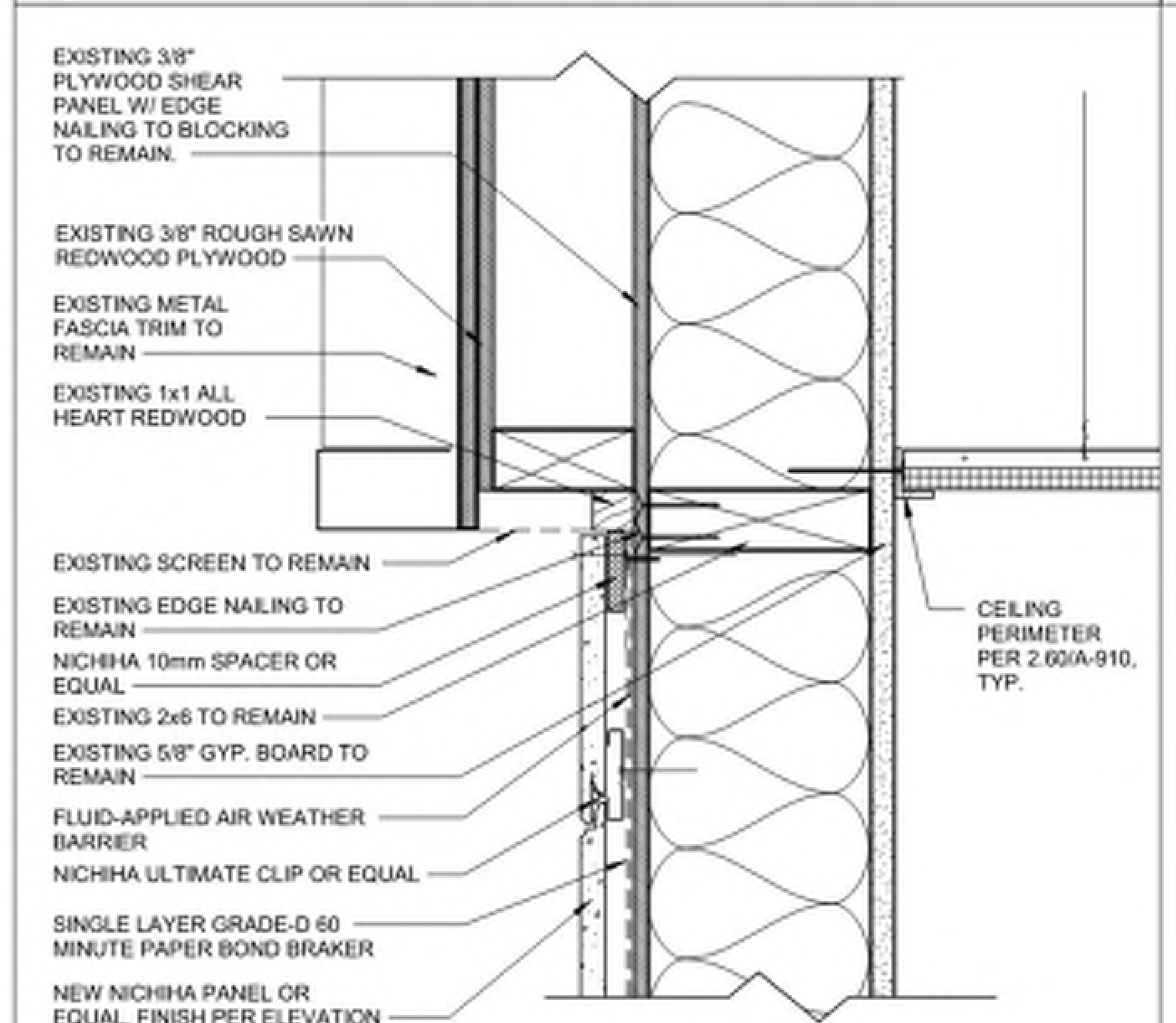

8 FASCIA TRIM @ C B WALL
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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LICENSED ARCHITECT
NO. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

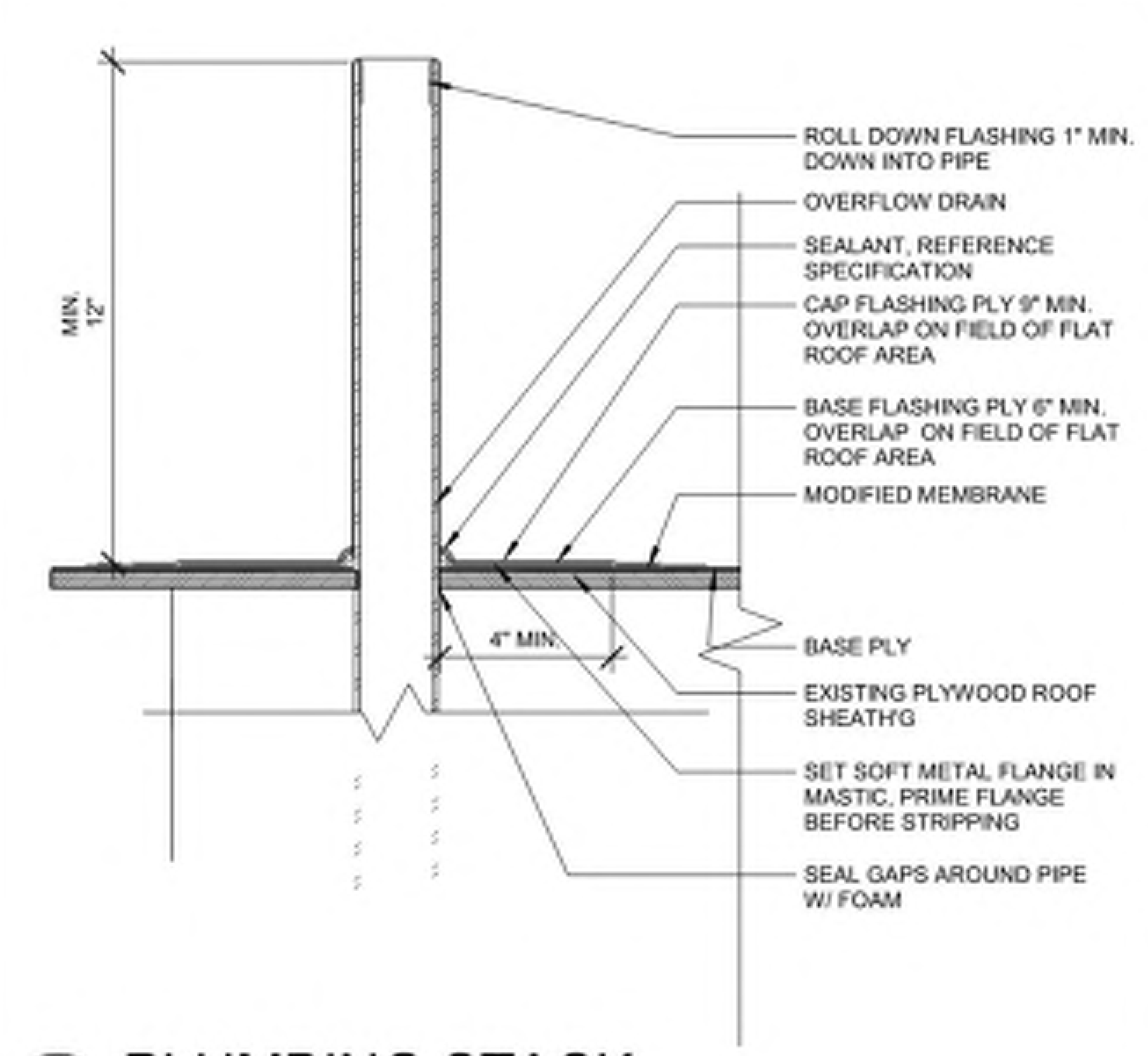
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

CEILING AND SOFFIT DETAILS

A-913

9/27/2022 9:28:52 AM



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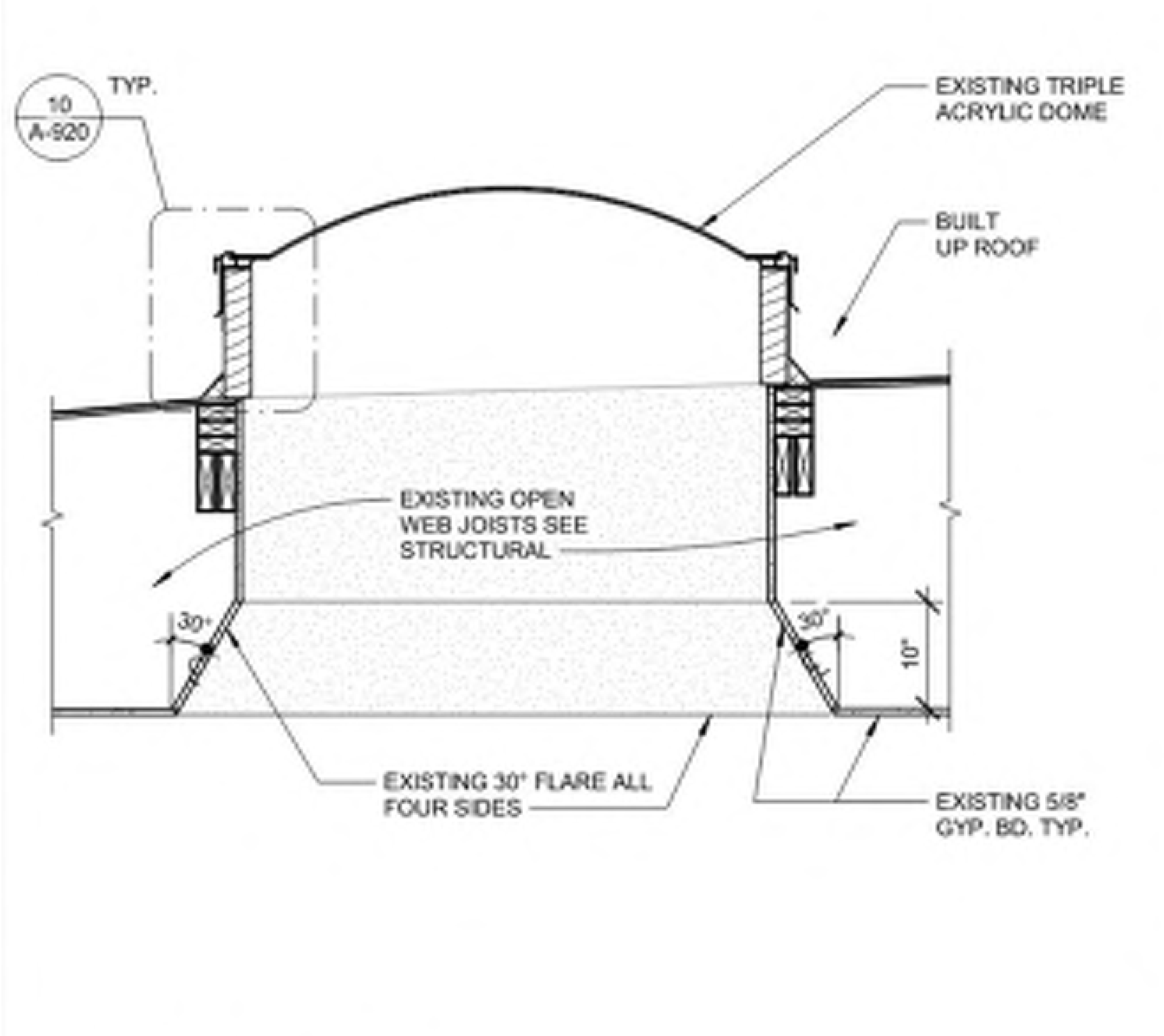

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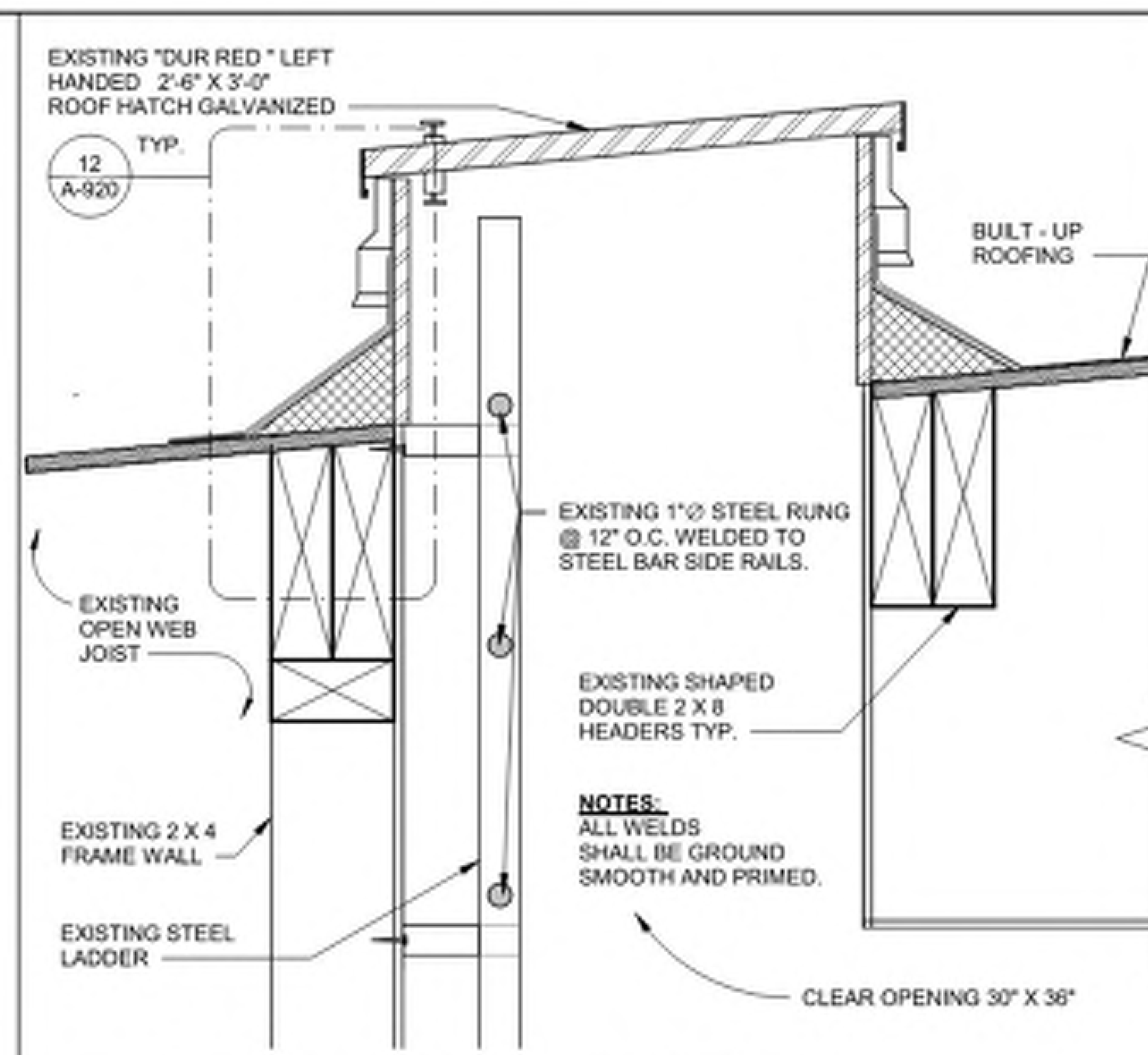

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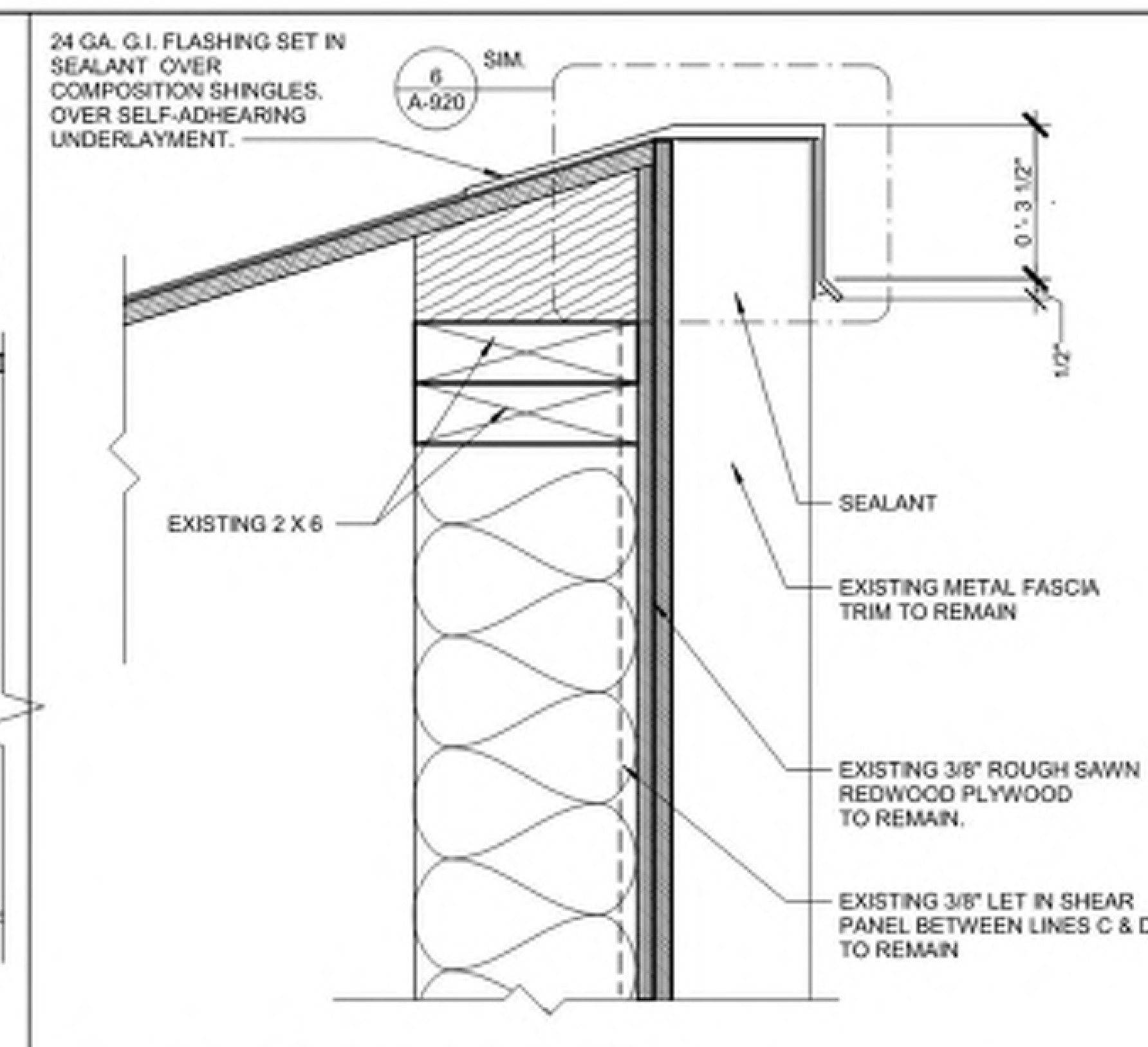

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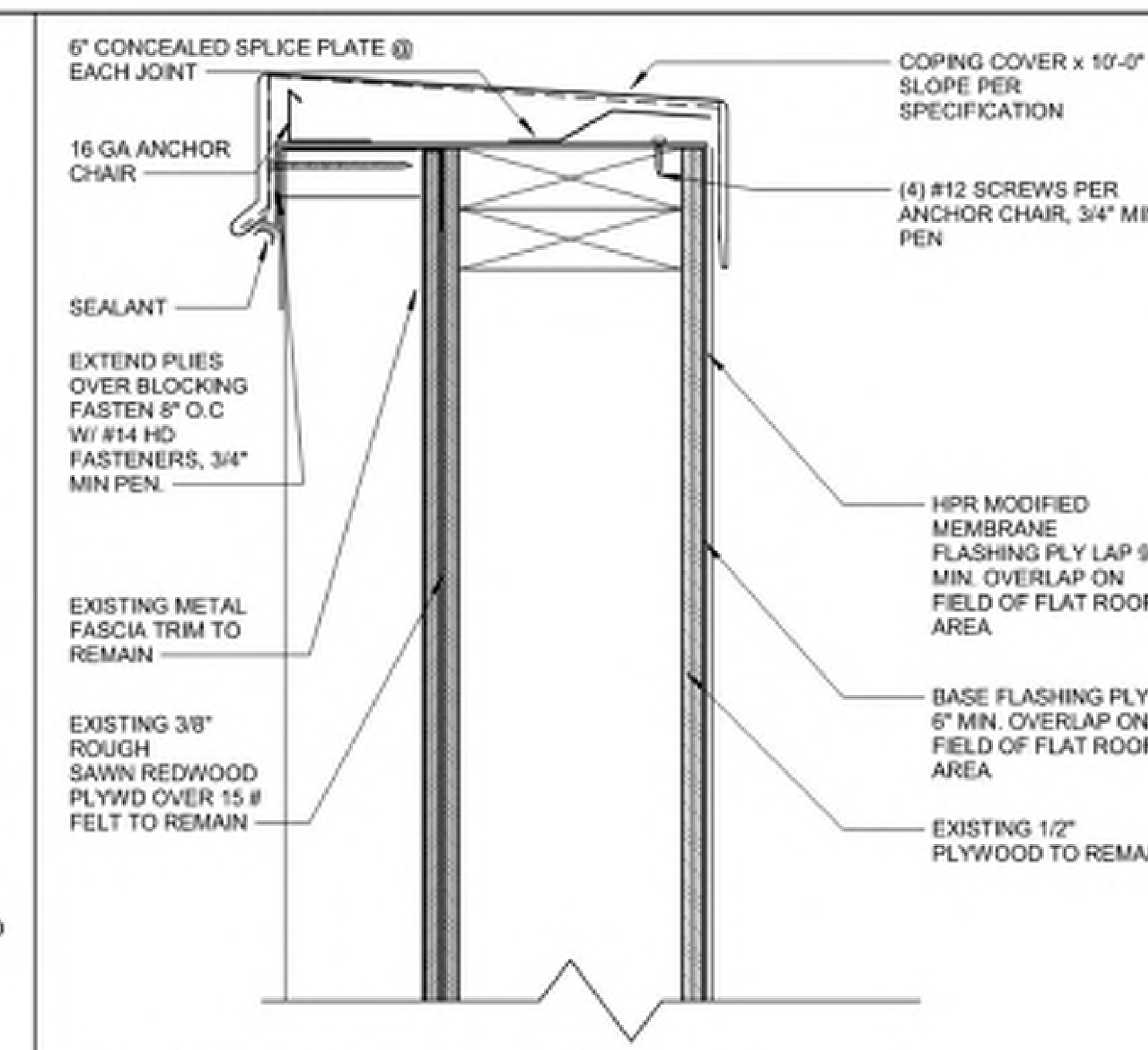

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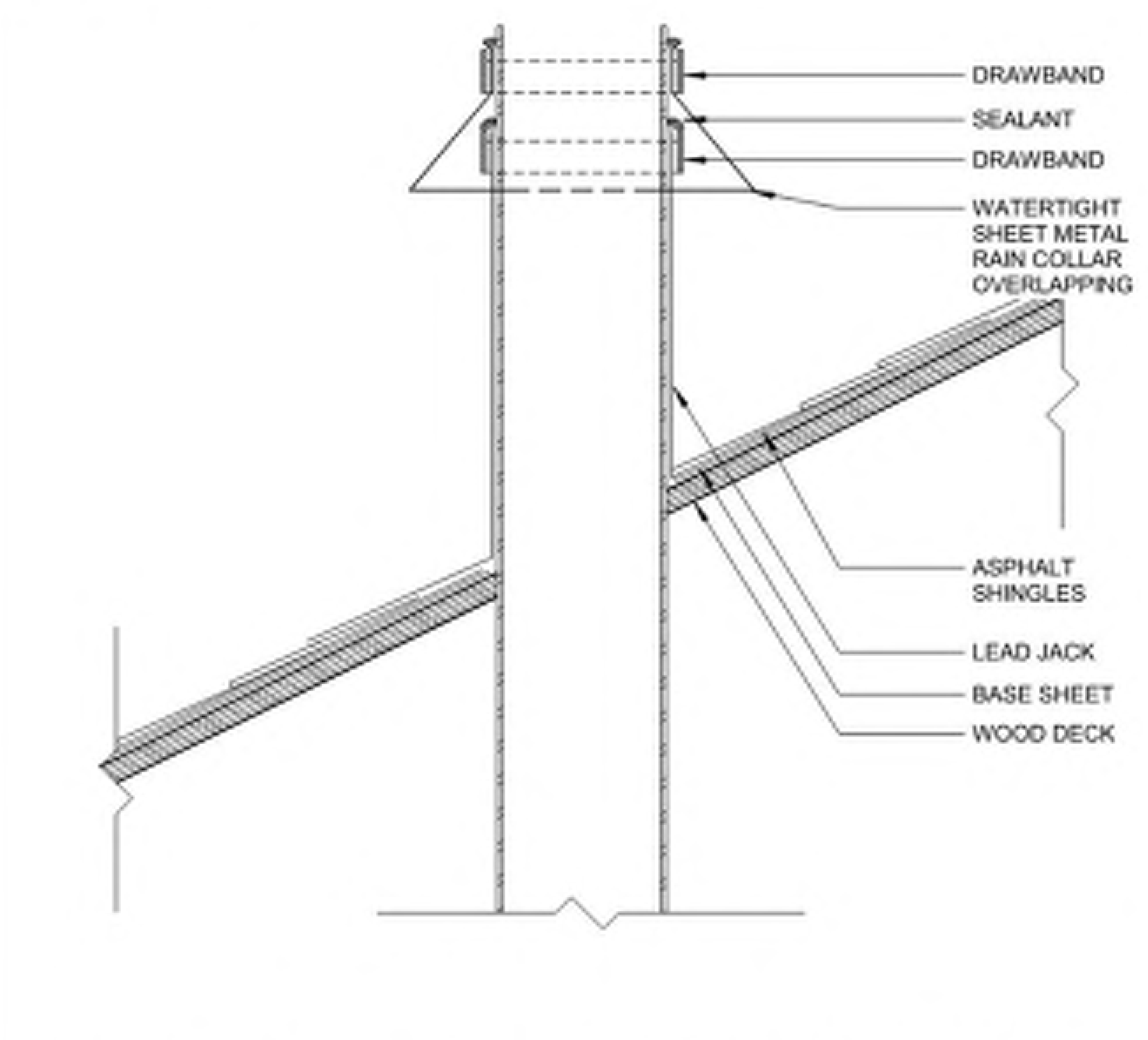

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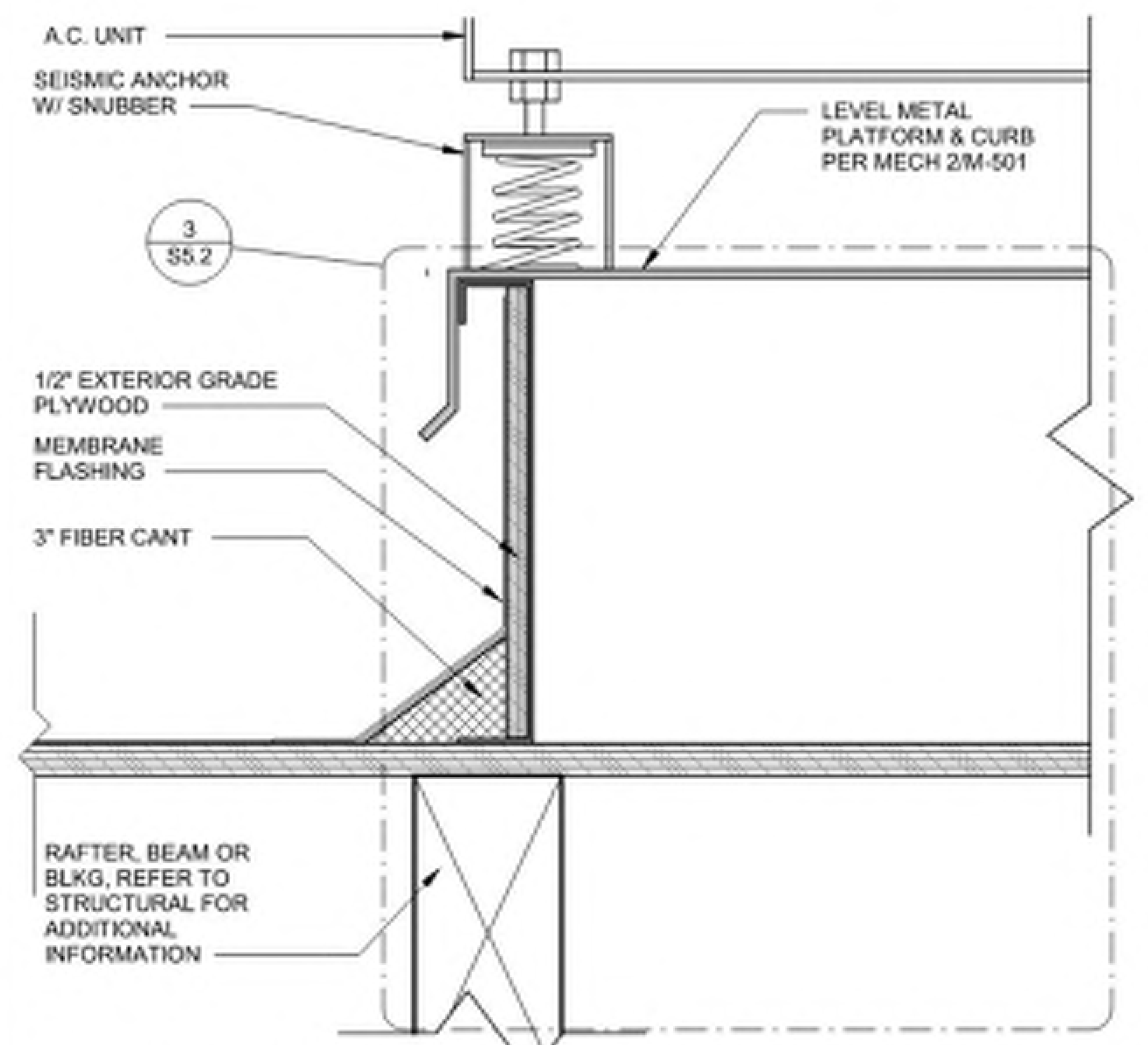

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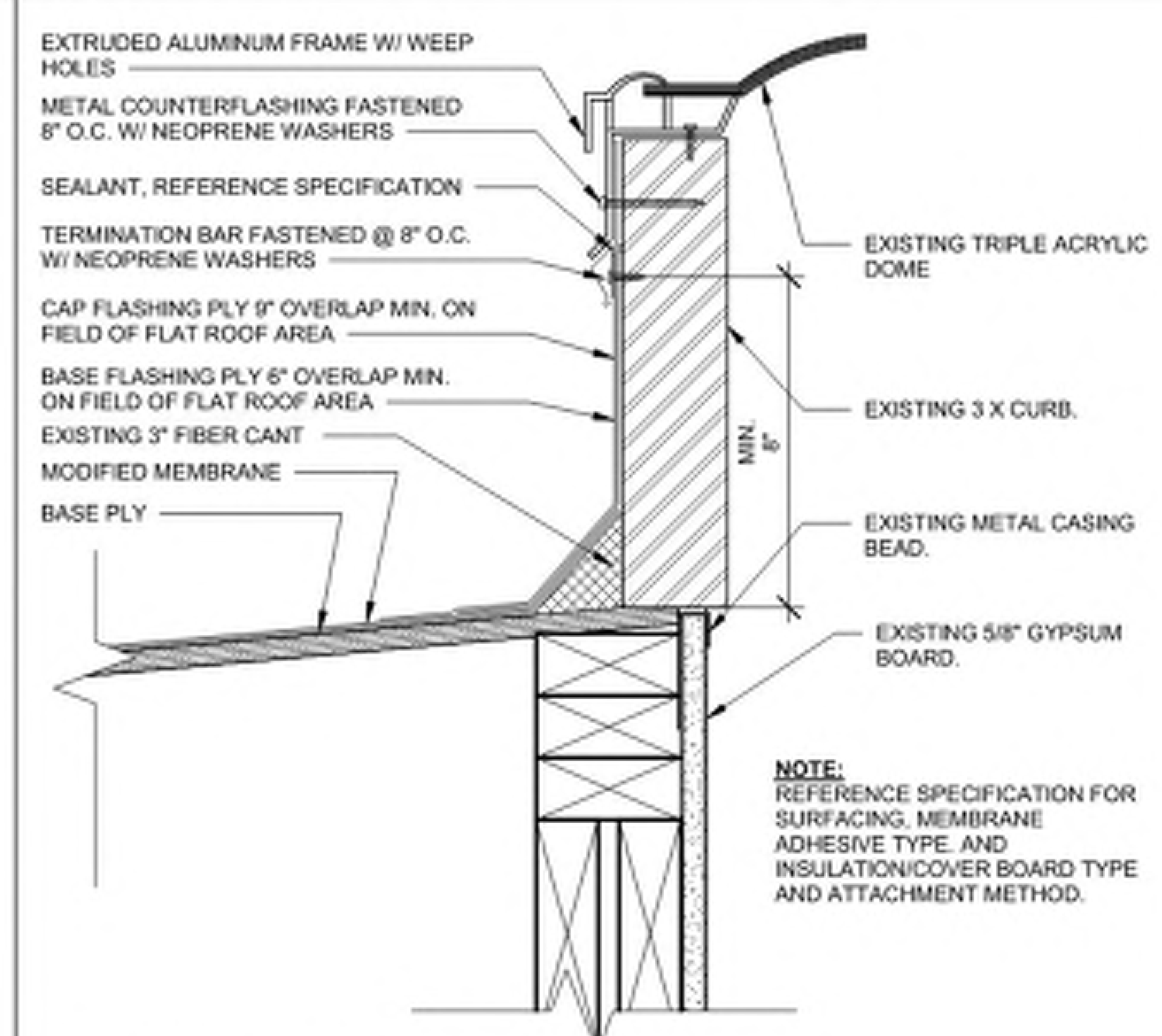

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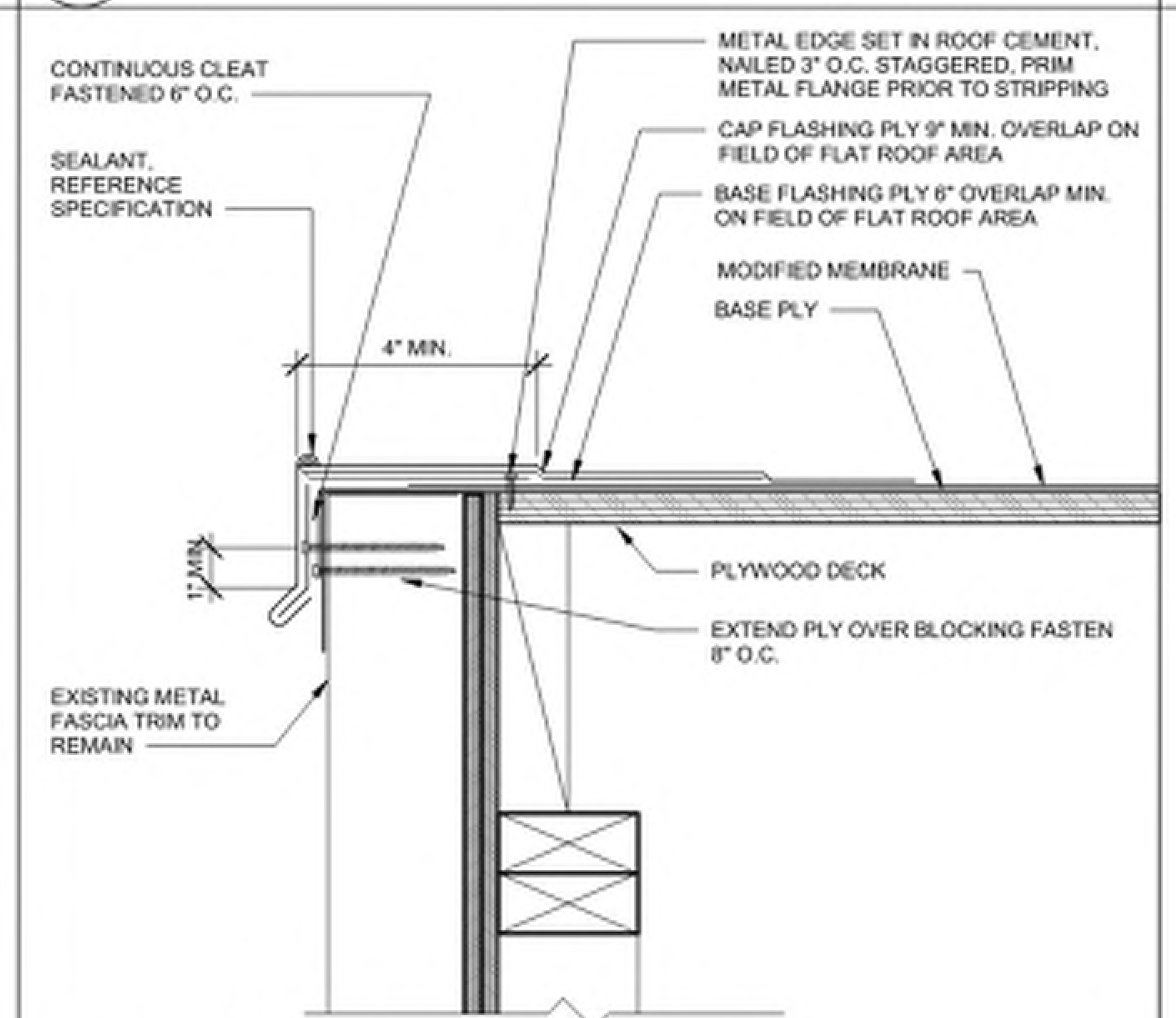

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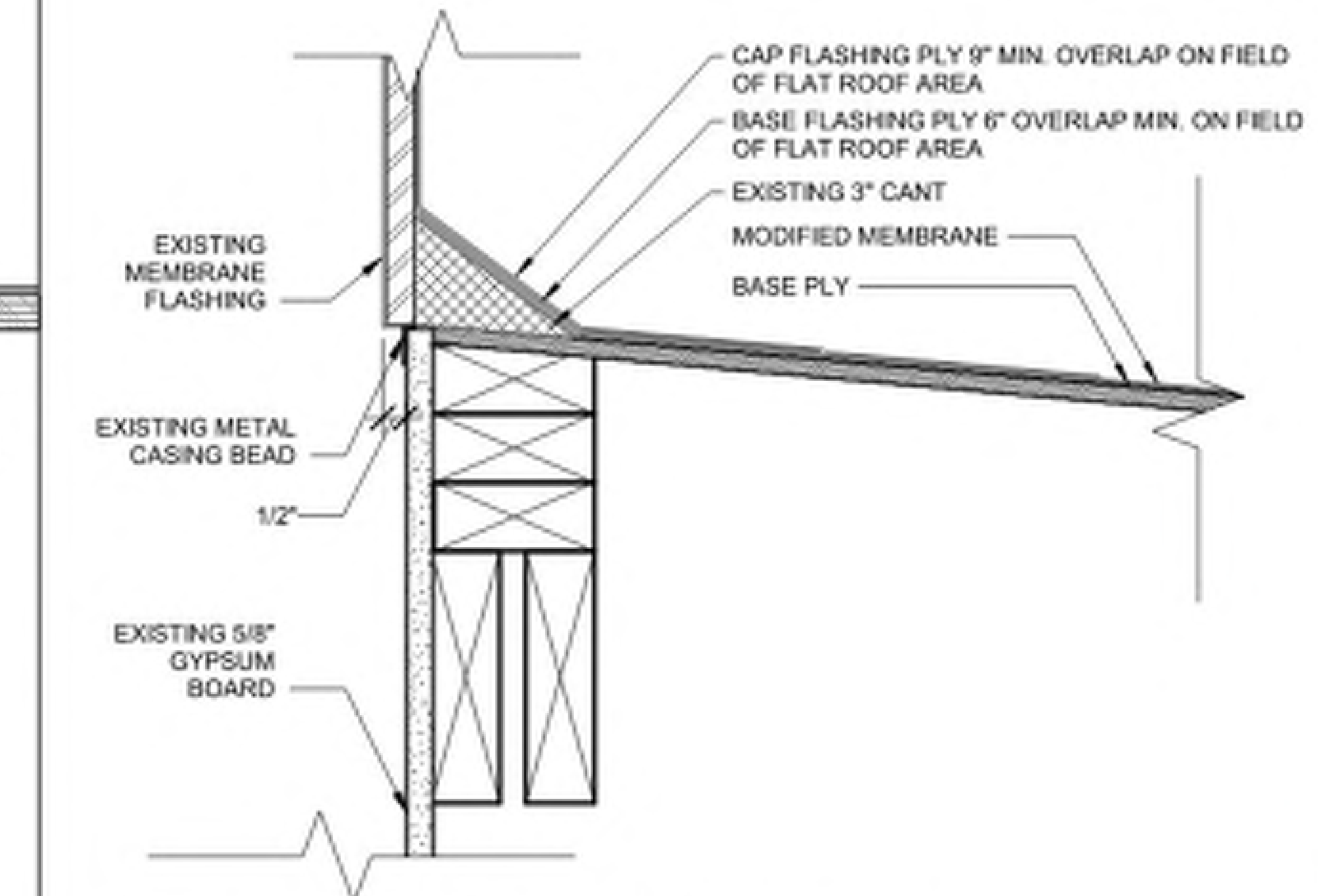

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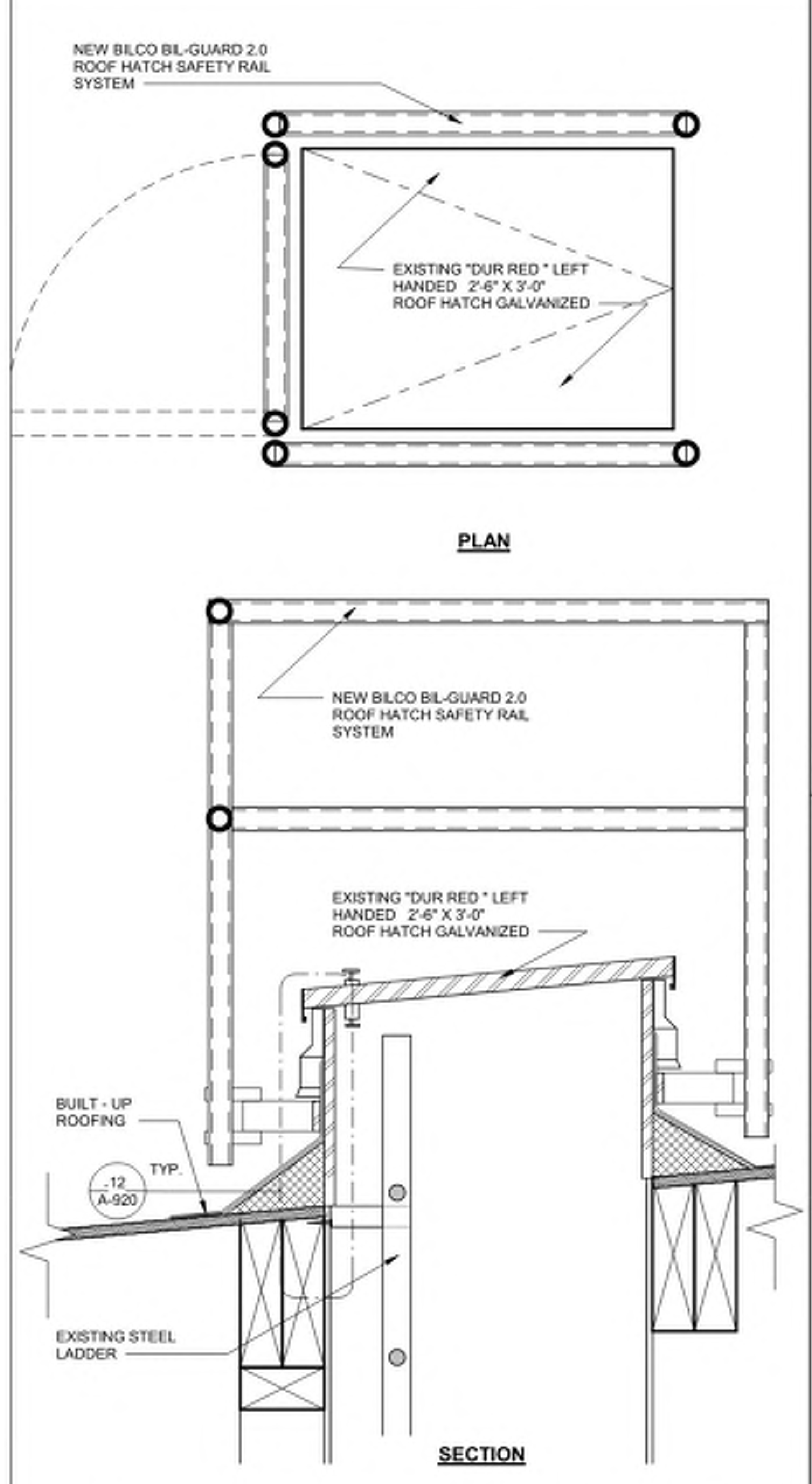

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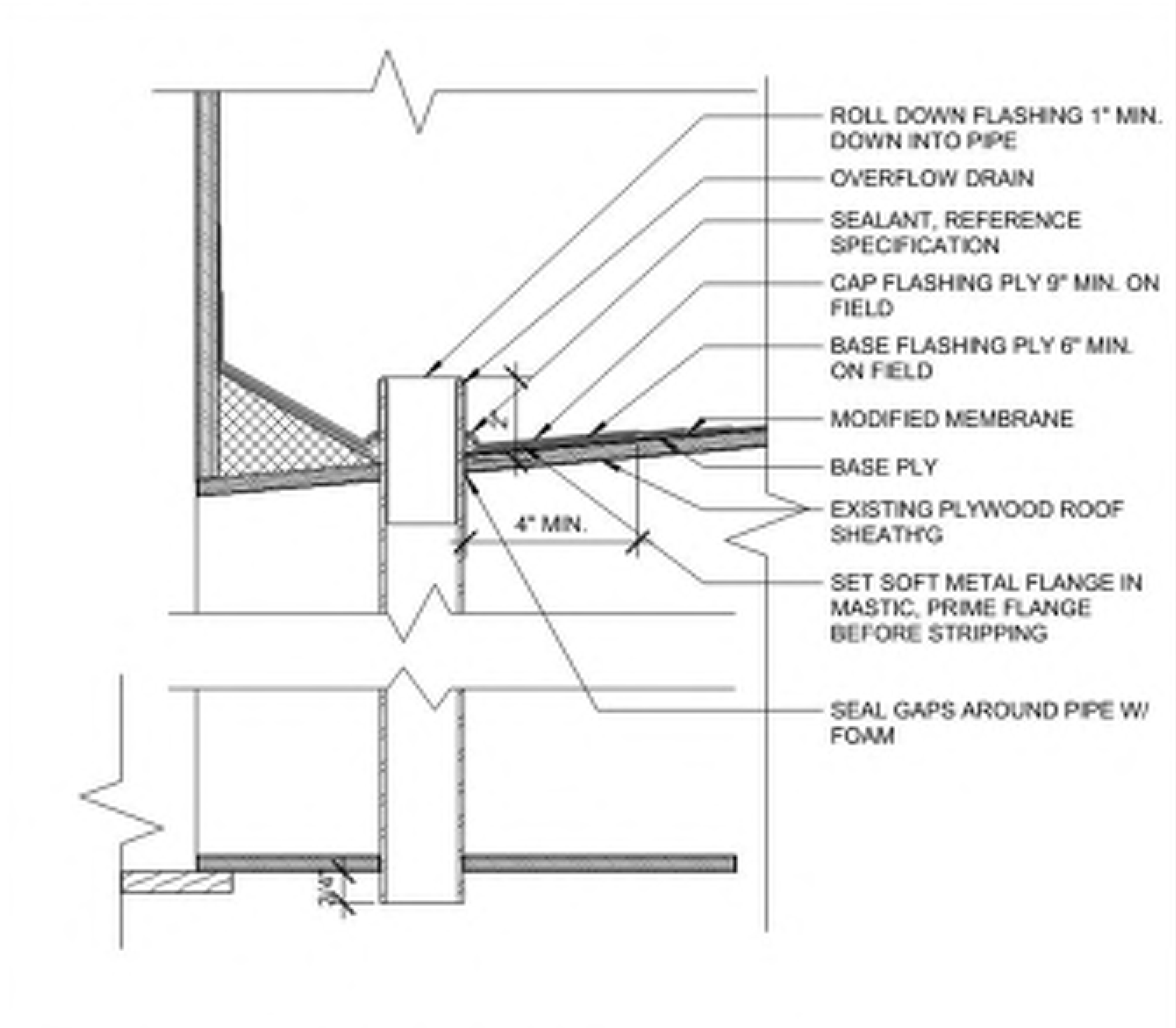

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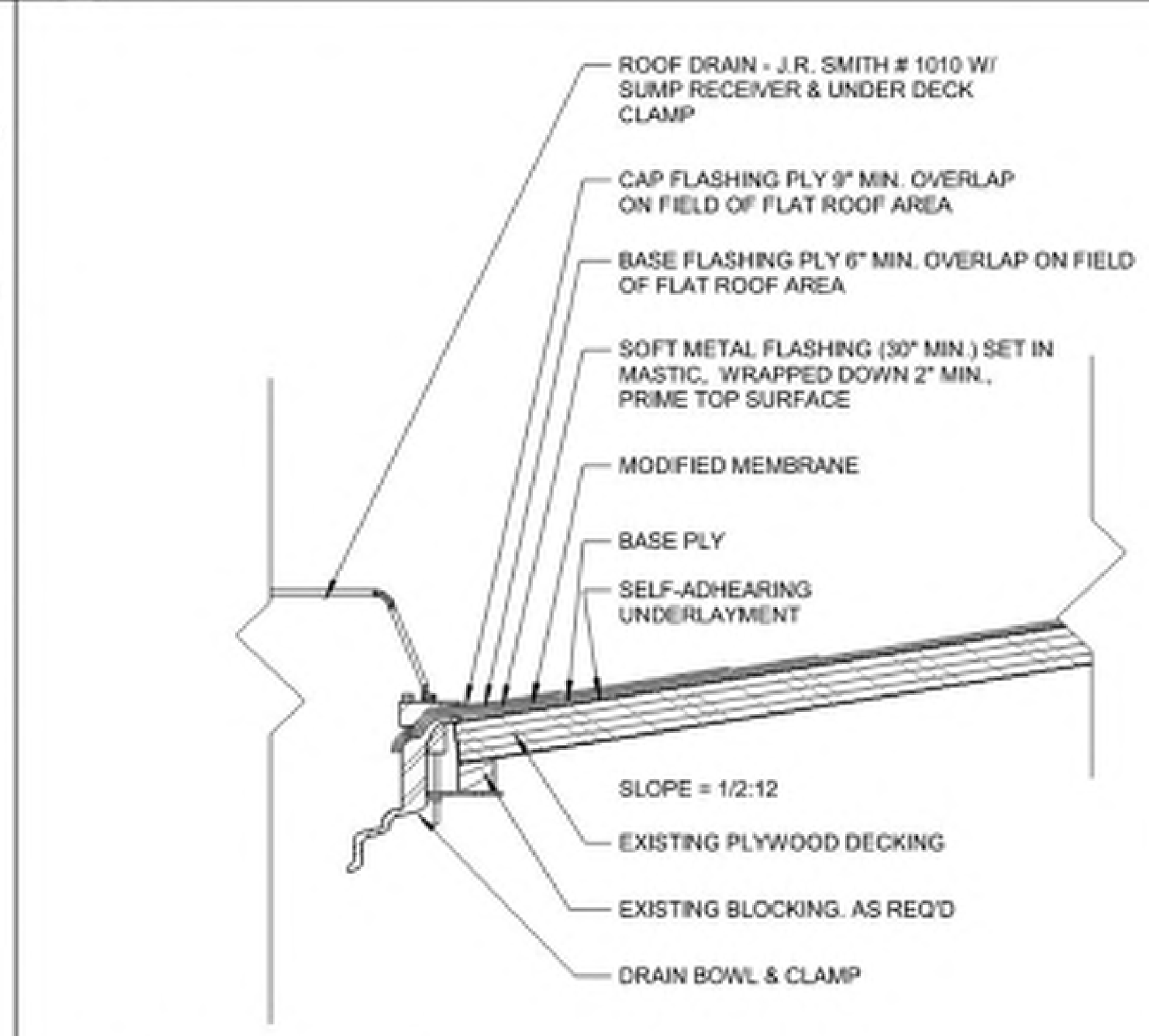

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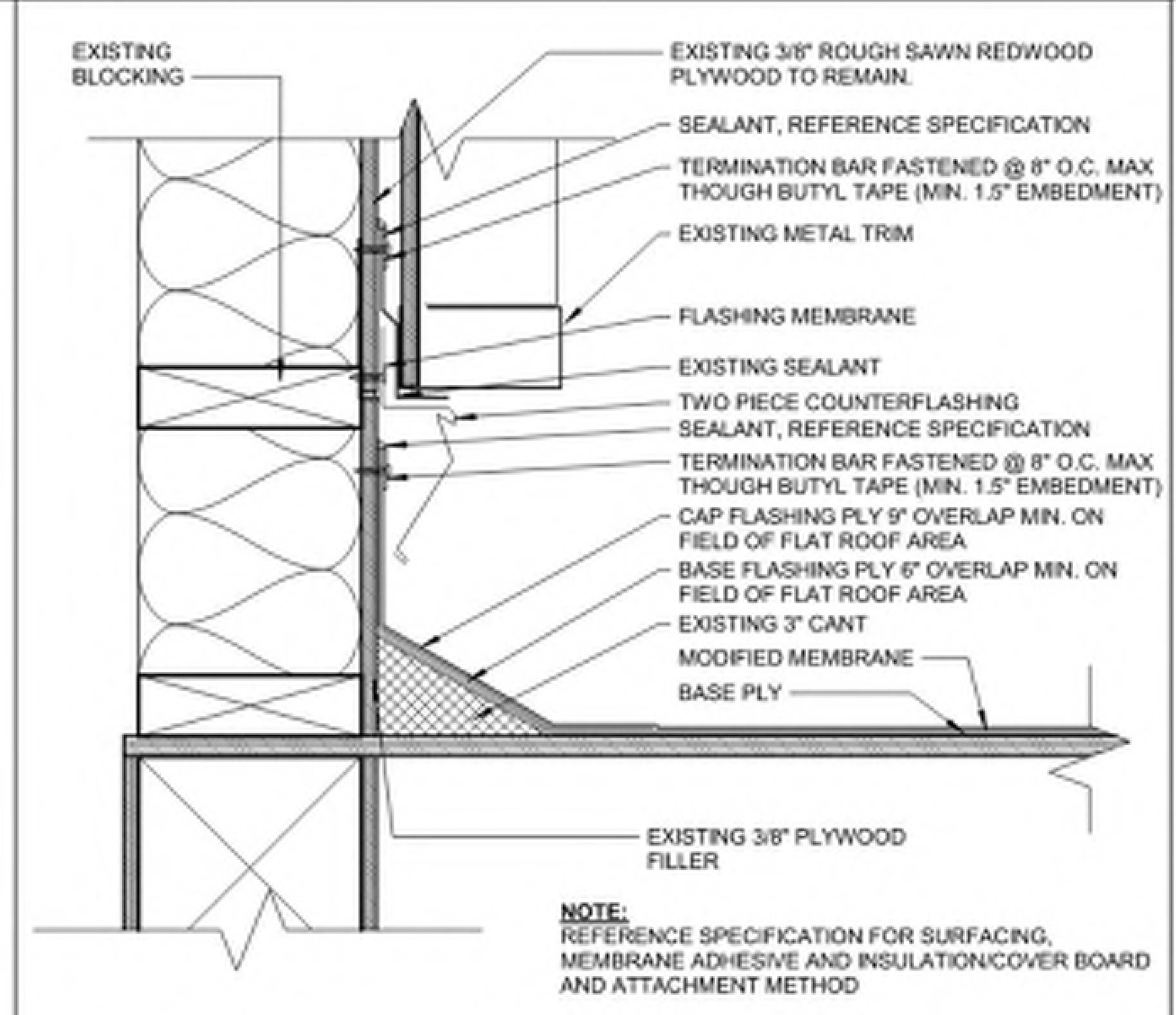

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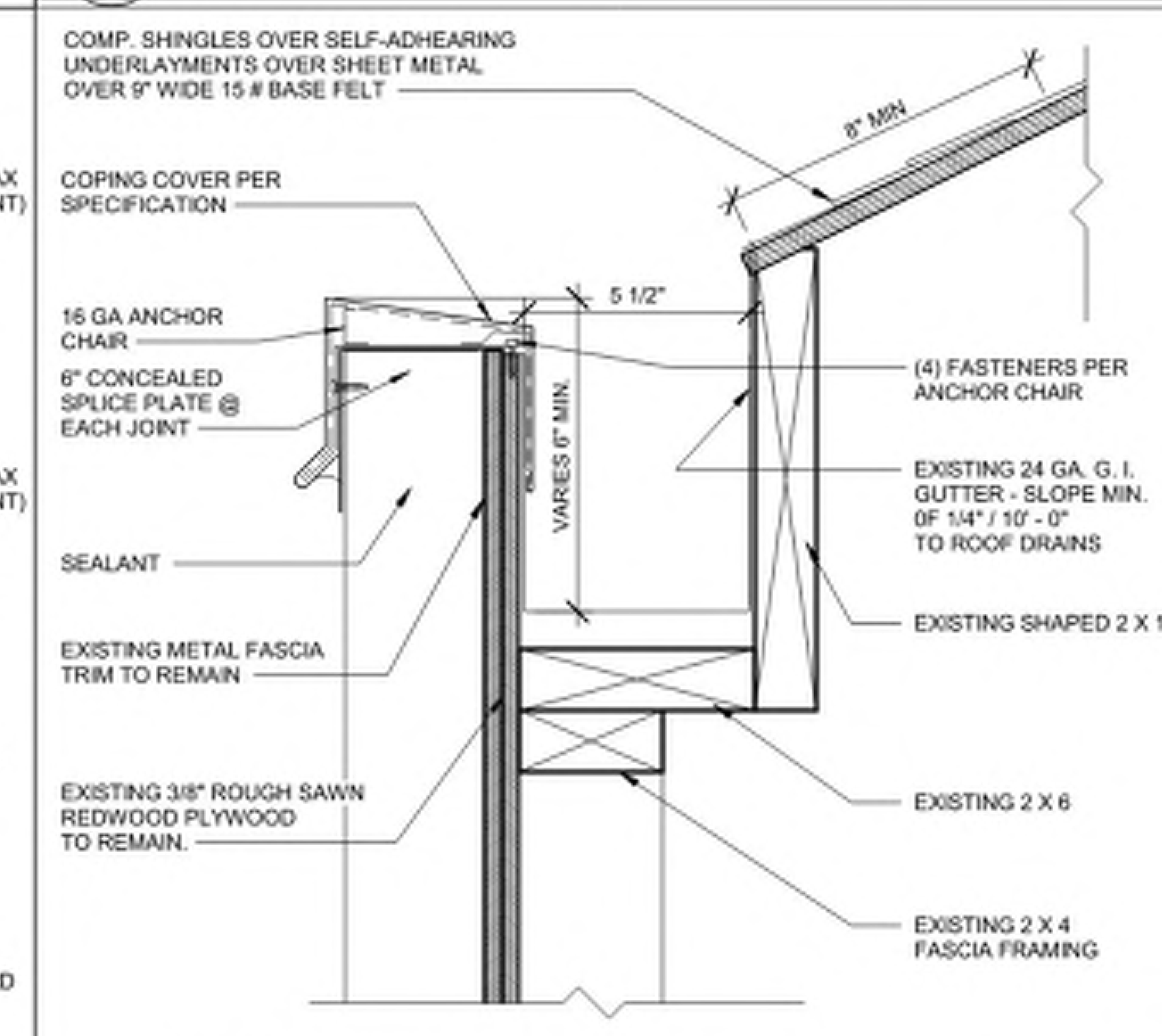

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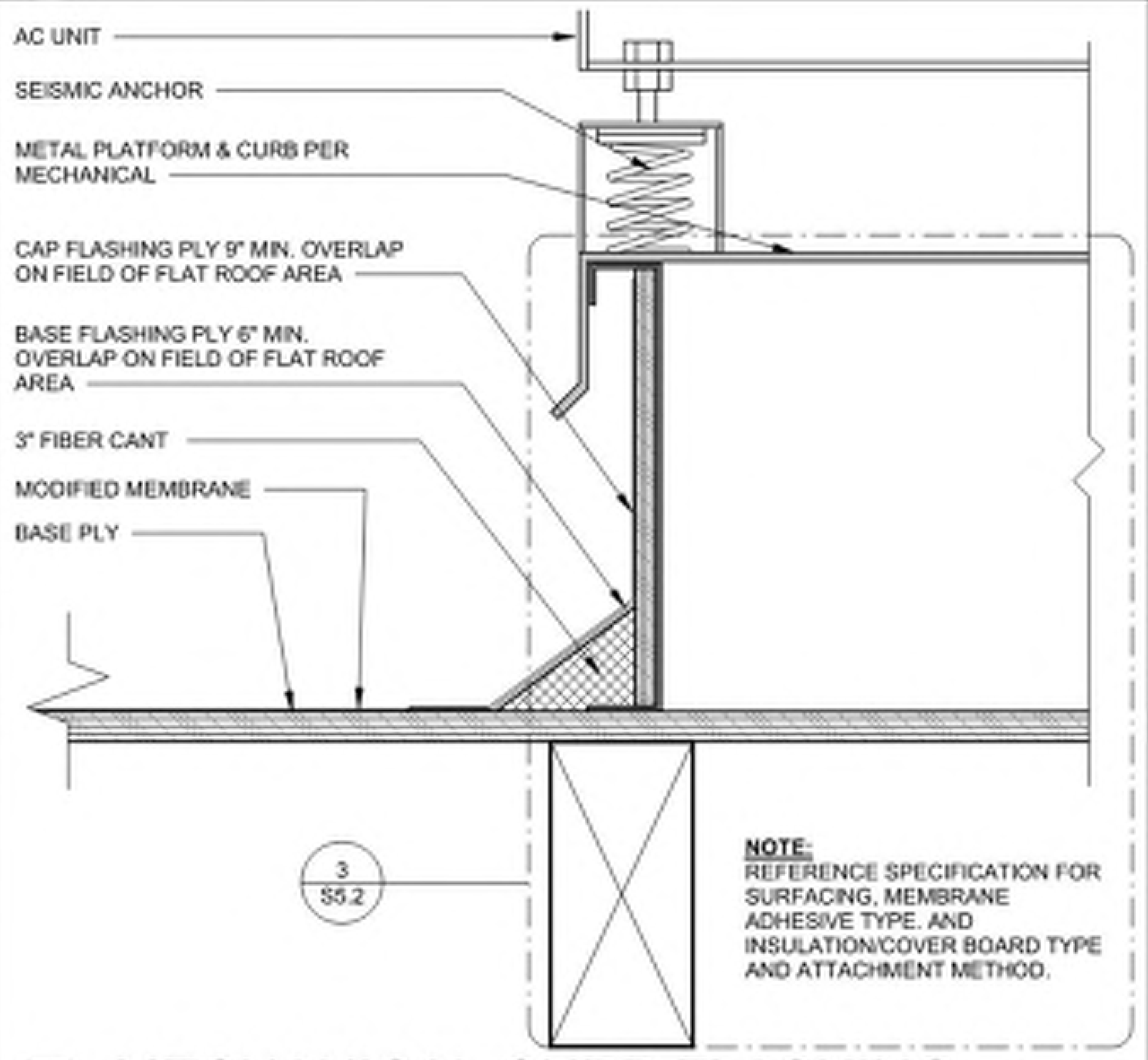

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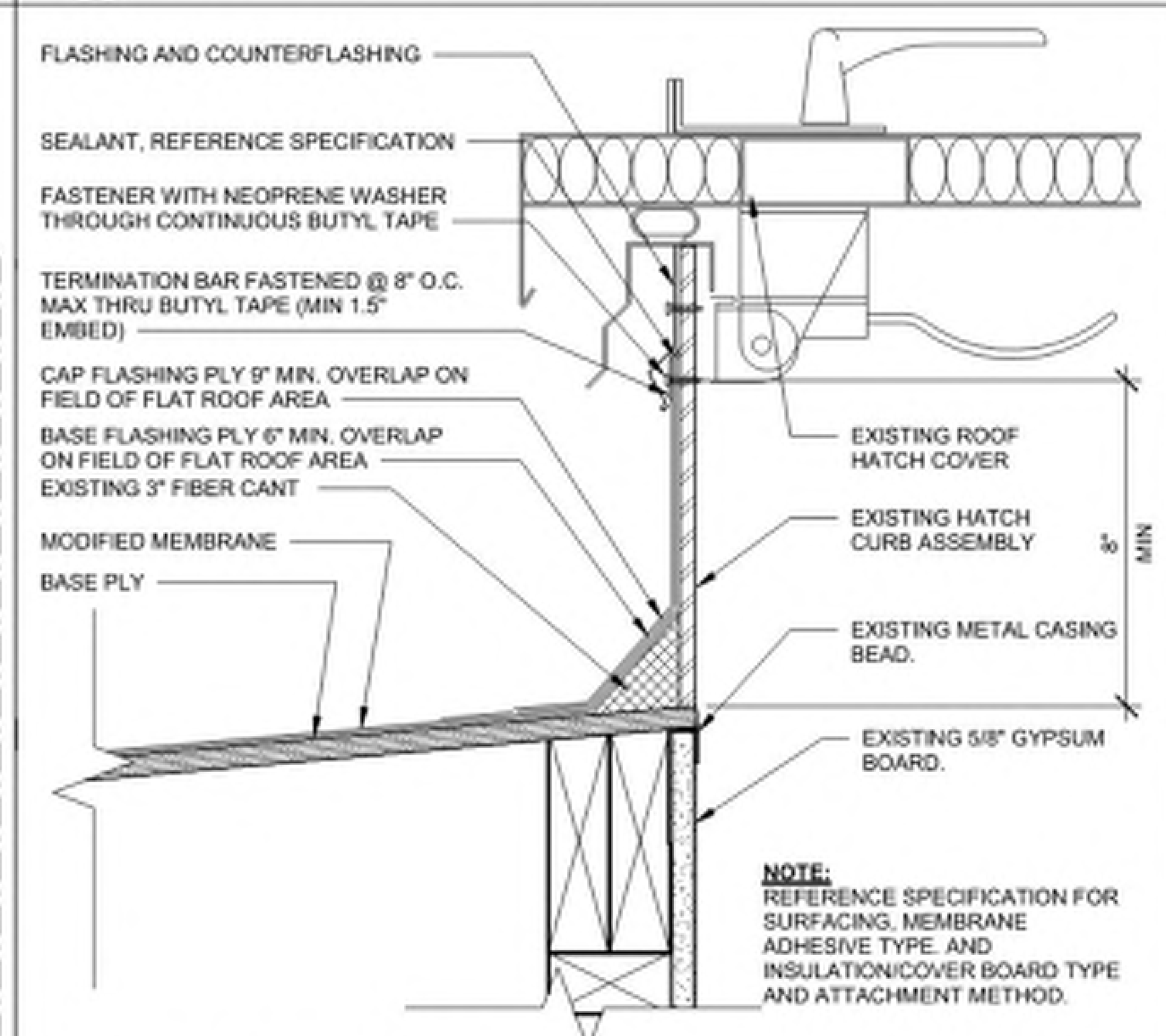

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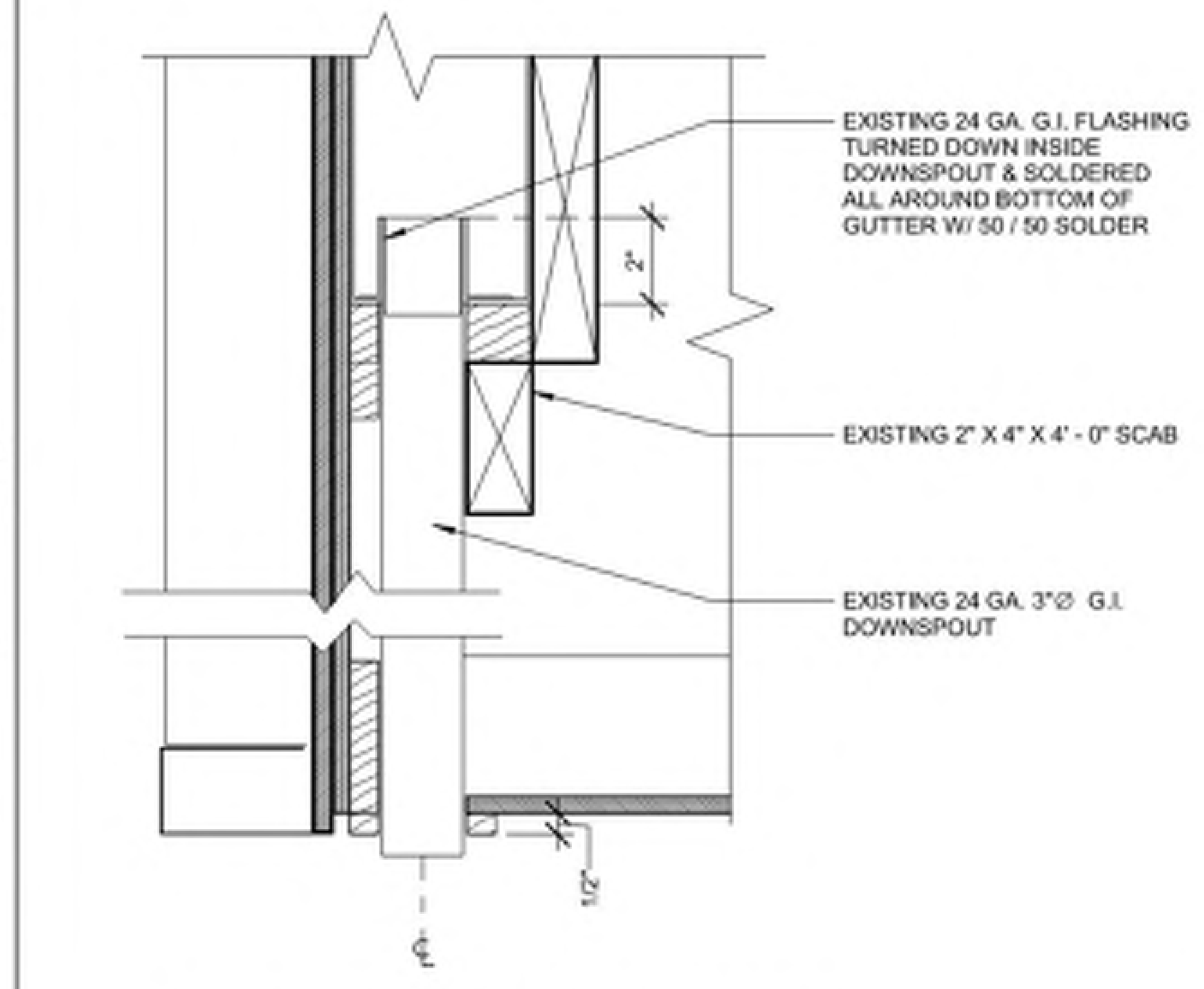
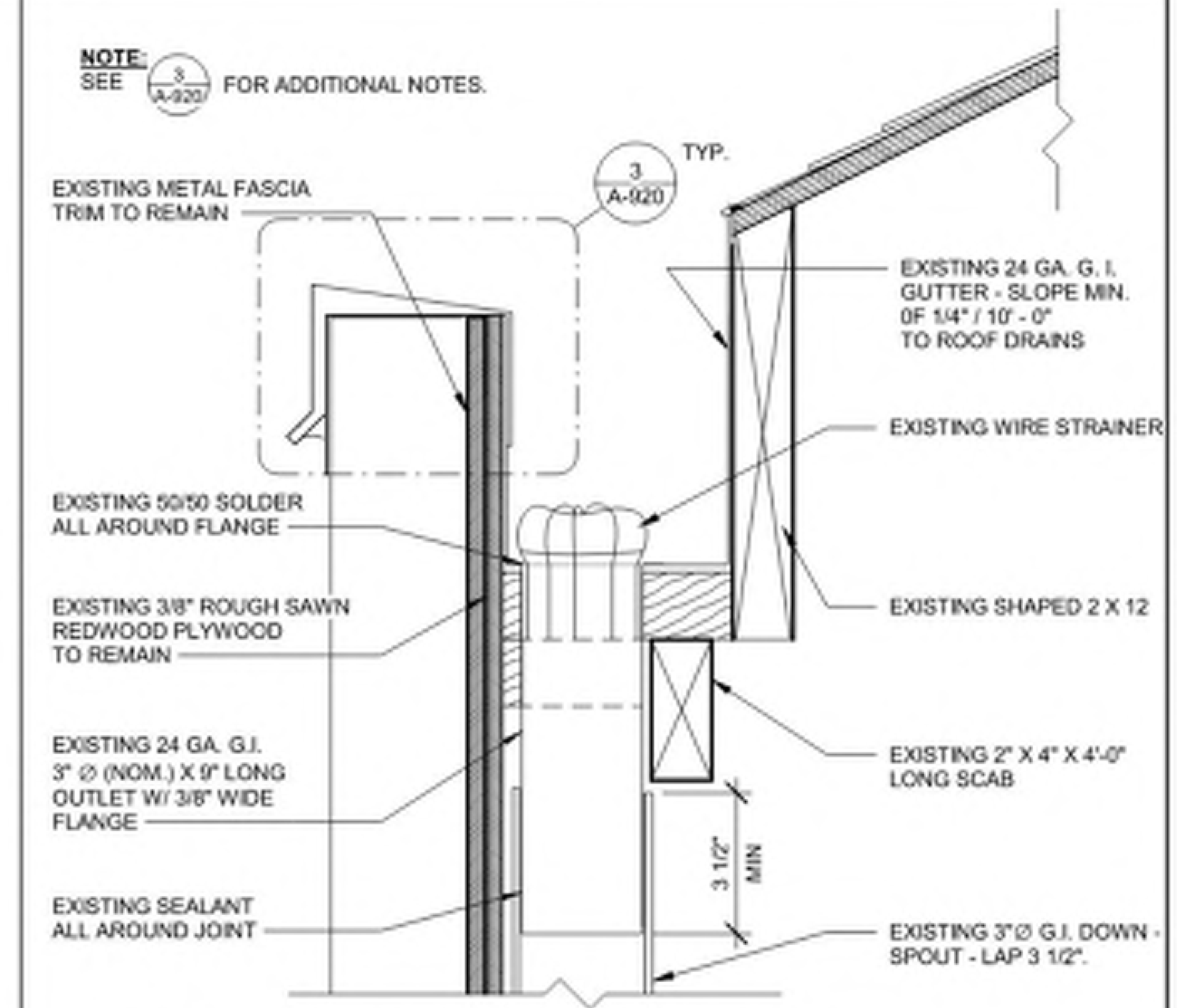


8 OVERFLOW @ GUTTER
3" = 1'-0"



4 DOWNSPOUT @ GUTTER
3" = 1'-0"

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DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
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PHONE 619.238.3811
www.davyarchitecture.com

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LICENSED ARCHITECT
NO. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

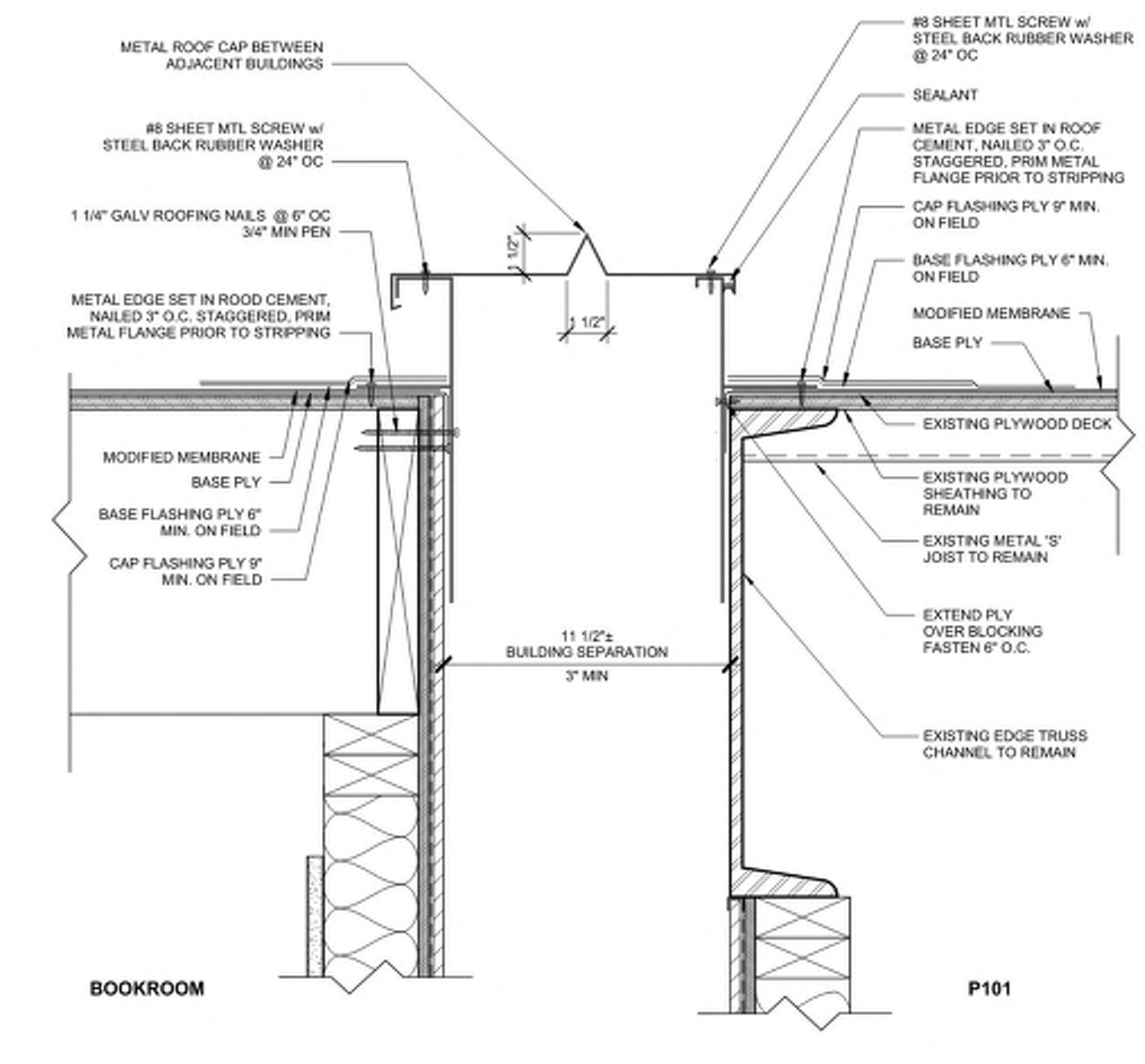
DAVY PROJECT No:	2017
DRAWN BY:	MEP / WA
CHECKED BY:	JM / AS

ROOF DETAILS - BUILDING C

A-920

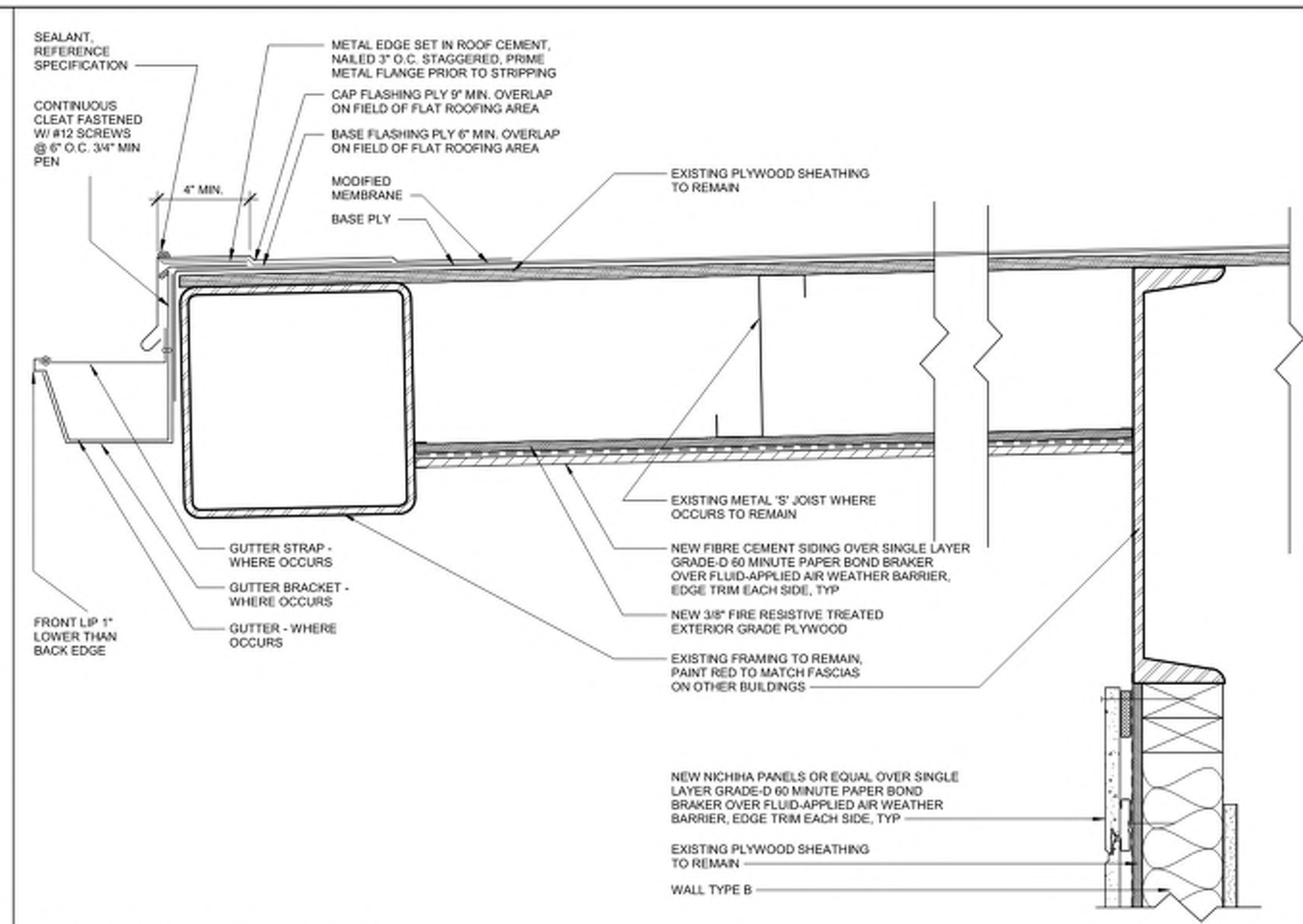
9/27/2022 9:28:57 AM

PAINT ALL METAL RED TO MATCH EXISTING METAL EAVES



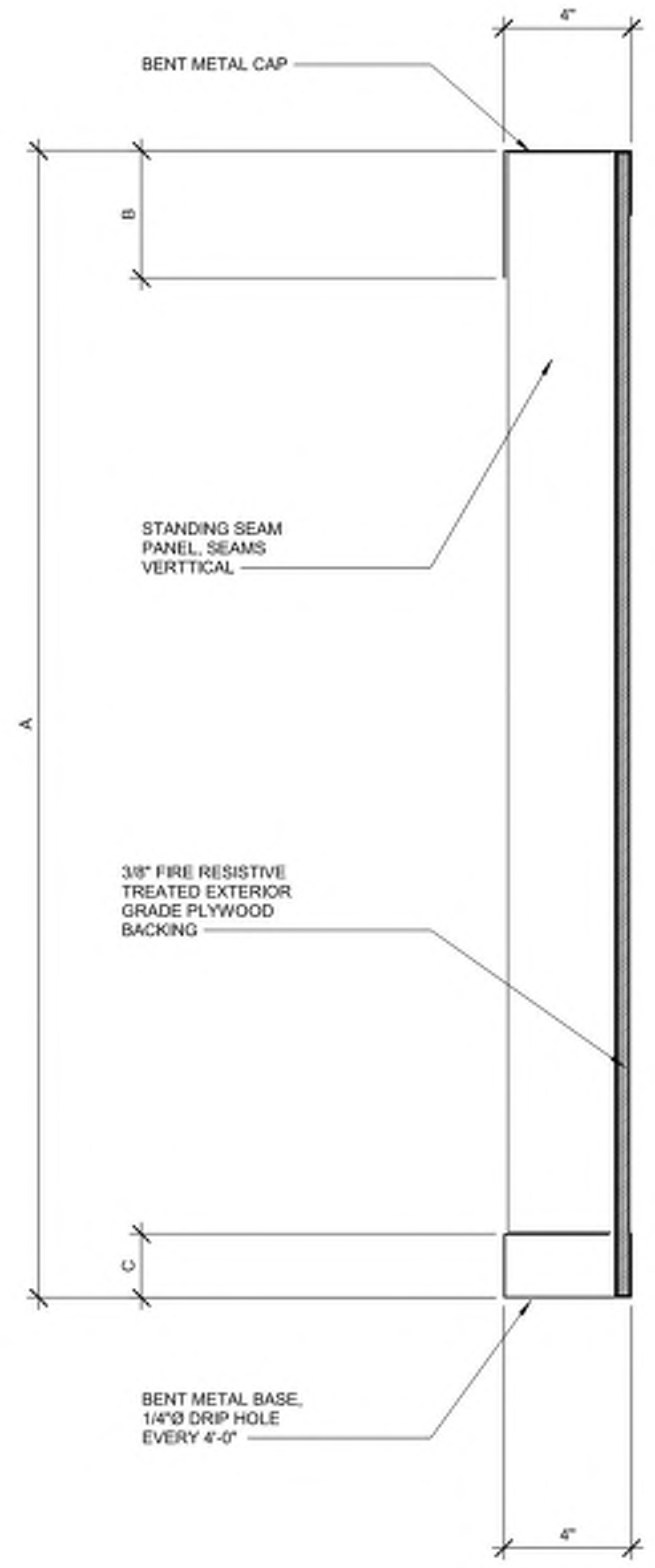
7 ROOF EXPANSION JOINT - P101 AND BOOKROOM

3" = 1'-0"



1 EAVE DETAIL - P101

3" = 1'-0"

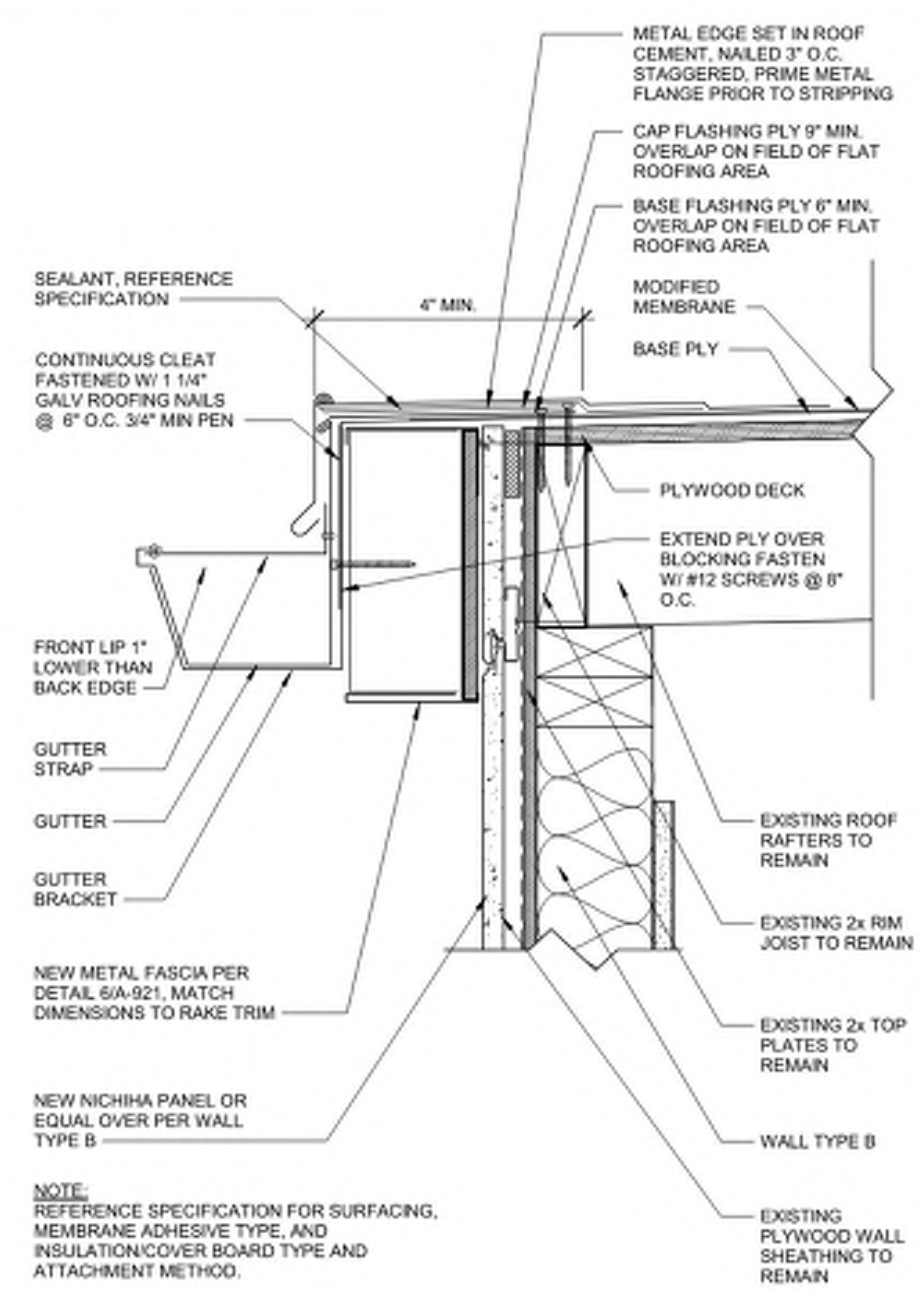


SIZE CHART		
A	B	C
6" - 10"	1/2"	1/4"
11" - 1'-5"	2"	1"
1'-6" - 4'-0"	4"	2"

NOTE: IF FASCIA VARIES WITHIN A CONTINUOUS LOCATION, USE MOST PREVALENT SIZING

6 NEW METAL FASCIA DETAIL

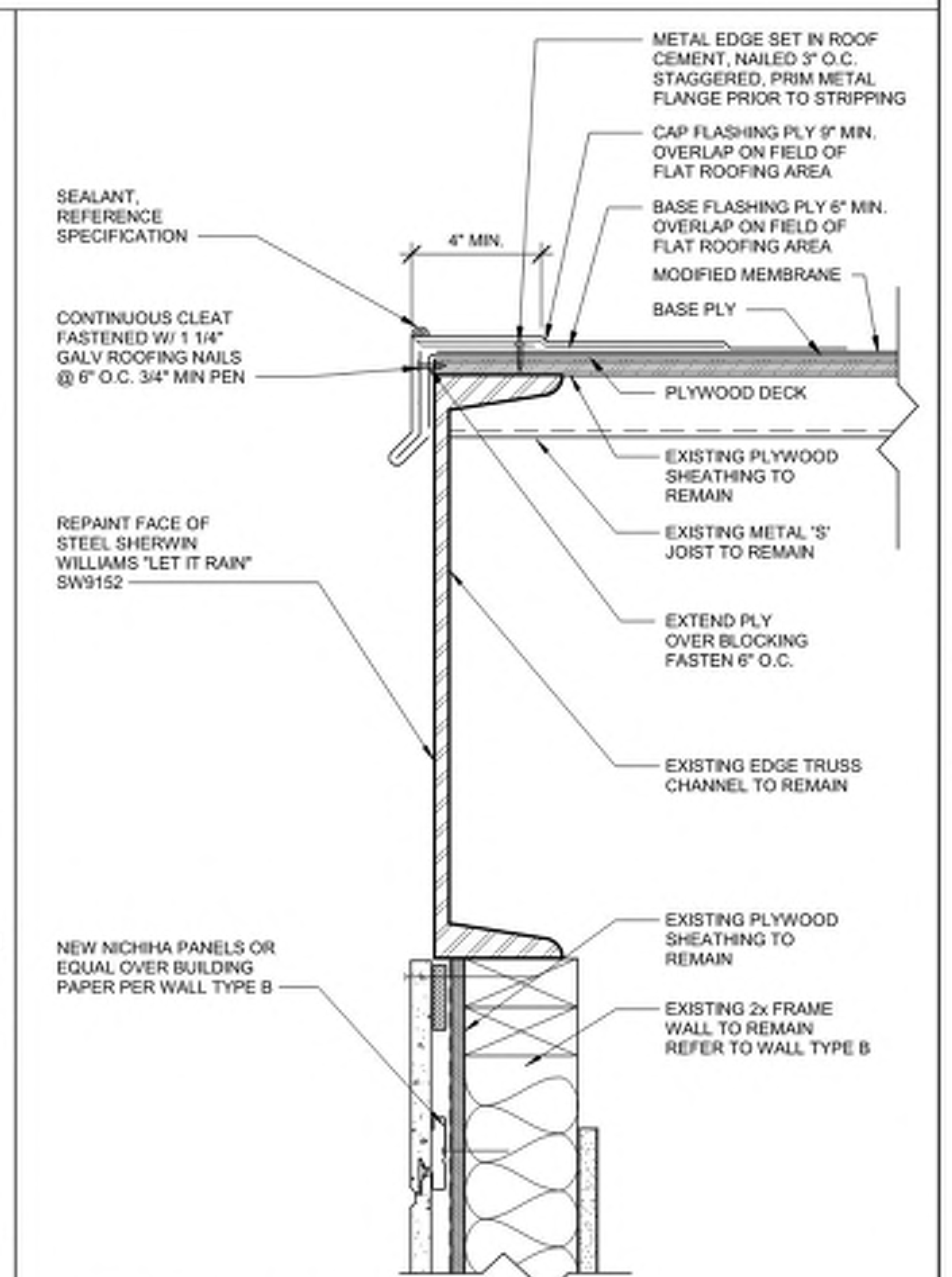
3" = 1'-0"



NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

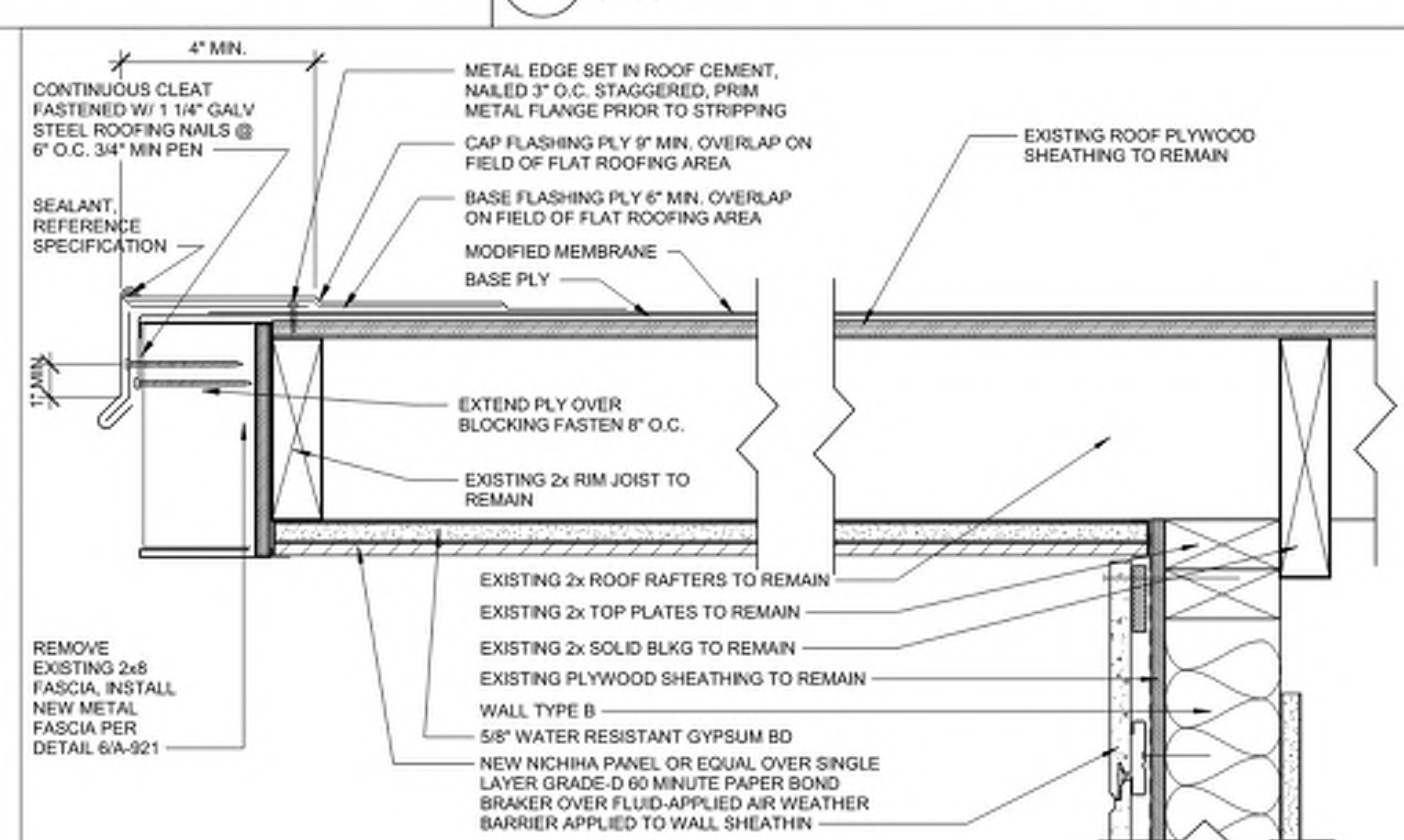
4 EAVE DETAIL - P102-P104

3" = 1'-0"



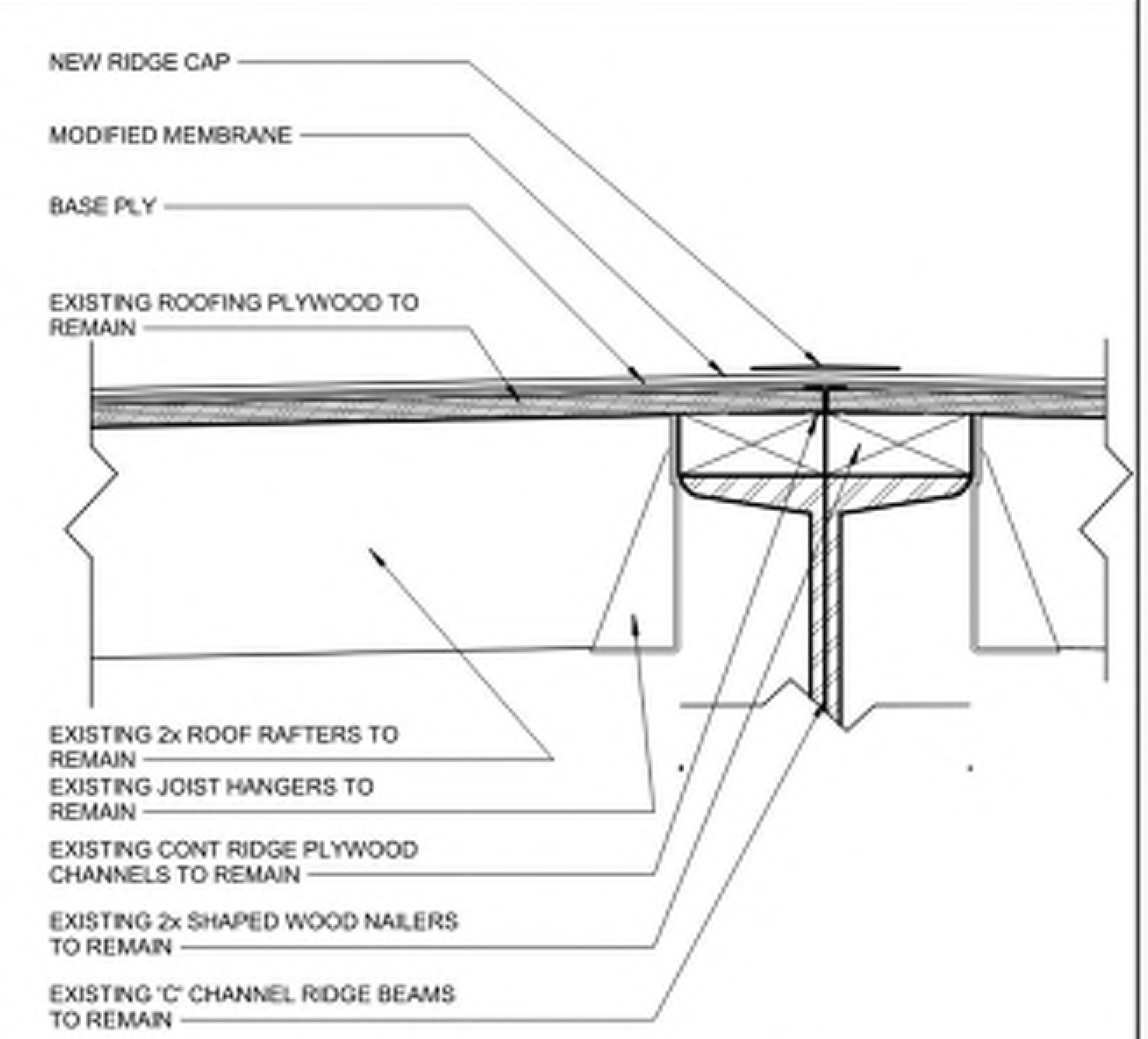
2 RAKE DETAIL - P101

3" = 1'-0"



5 RAKE DETAIL - P102-P104

3" = 1'-0"



3 RIDGE DETAIL - P102-P104

3" = 1'-0"

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LICENSED ARCHITECT, STATE OF CALIFORNIA, NO. C28089, REN. 05/31/23

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

ROOF DETAILS - BUILDINGS P101, P102 & P104

A-921

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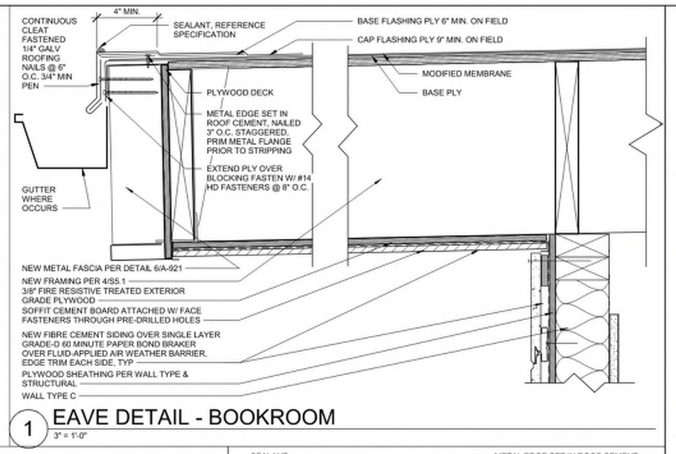
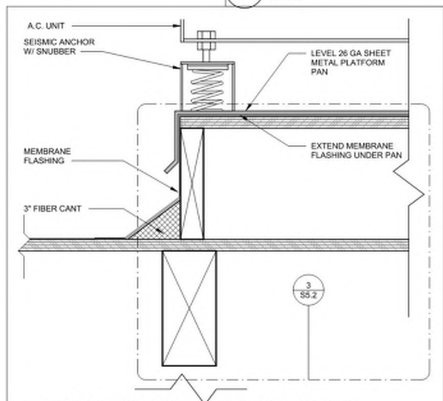
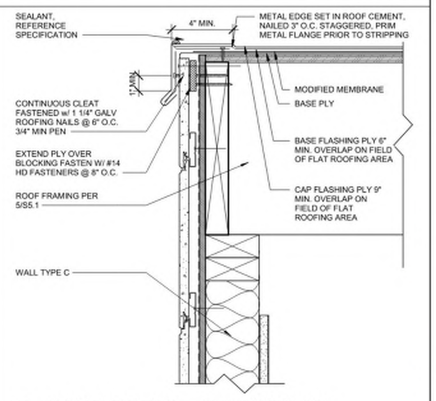


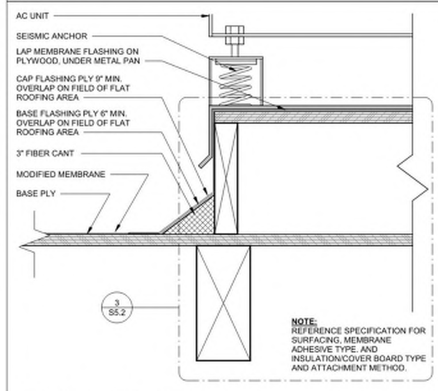
1 EAVE DETAIL - BOOKROOM
3" = 1'-0"



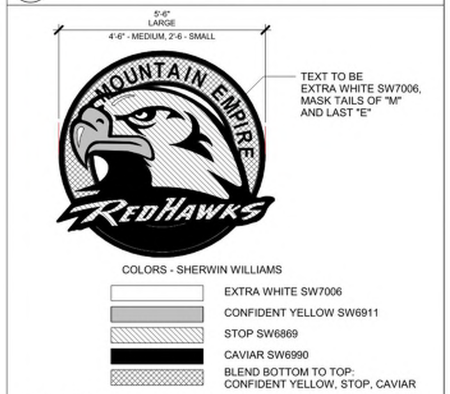
4 FRAMED MECHANICAL CURB
3" = 1'-0"



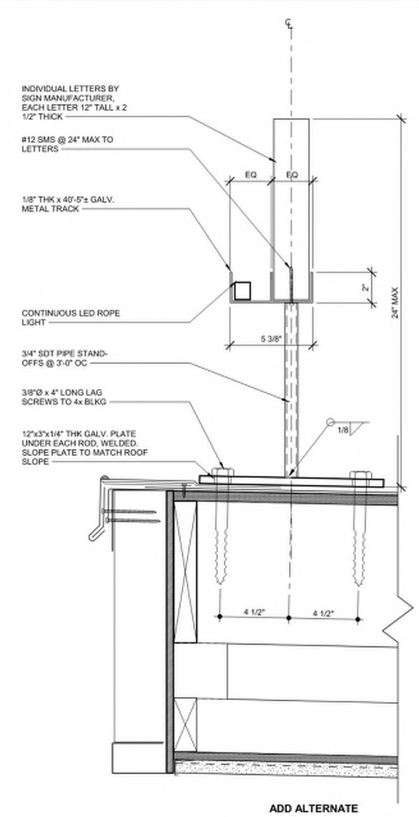
2 RAKE DETAIL - BOOKROOM
3" = 1'-0"



5 FRAMED MECH CURB FLASHING
3" = 1'-0"



6 REDHAWKS SIGN - ADD ALTERNATE
1 1/2" = 1'-0"



3 ENTRY FEATURE SIGN MOUNTING
3" = 1'-0"

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LICENSED ARCHITECT
ANDREW V. STRATTON
No. C26095
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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DRAWN BY:	MEP
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ROOF DETAILS - BUILDING BOOKROOM & ENTRY FEATURE

A-922

9/27/2022 9:29:02 AM

ROOM FINISH SCHEDULE - BUILDING C

NO.	ROOM NAME	FLOOR		BASE		WALL NORTH			WALL EAST			WALL SOUTH			WEST			CEILING				COMMENTS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	
C01	SCIENCE CLASSROOM	LVT	LVT-1 & 2	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C02	SCIENCE CLASSROOM	LVT	LVT-1& 2	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C03	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C04	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C05	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C06	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT	-	-	9'-0"	
C07	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C08	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C09	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C10	CLASSROOM	CPT	CPT-1, 2 & 3	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C11	RECEPTION	LVT	LVT-2	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C12	STAFF WORKROOM	LVT	LVT-1	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	ACT			9'-0"	
C13	PRINCIPAL OFFICE	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C14	STAFF TOILET ROOM	PT	CPT-3	PT	-	PT	-	PT-3	PT	-	PT-3	PT	-	PT-3	PT	-	PT-3	GYP	SGL	P-1	8'-0"	
C15	STAFF TOILET ROOM	PT	PT-4	PT	-	PT	-	PT-3	PT	-	PT-3	PT	-	PT-3	PT	-	PT-3	GYP	SGL	P-1	8'-0"	
C16	SUPPLIES	LVT	LVT-1	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) GYP			9'-0"	
C17	A.V.	LVT	LVT-1	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) GYP		P-1	9'-0"	
C18A	SCIENCE CORRIDOR	LVT	LVT-1	RUB	RUB-2	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C18B	HUMANITIES CORRIDOR	LVT	LVT-1	RUB	RUB-2	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C19	REMEDIAL	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C20	CONFERENCE	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	GYP	EGS	P-1	(E) ACT			9'-0"	
C21	JANITOR	CON-1	CLR. SEALED	RUB	RUB-1	FRP./GYP	GLS	P-1	FRP./GYP	GLS	P-1	FRP./GYP	GLS	P-1	FRP./GYP	GLS	P-1	(E) ACT			9'-0"	
C22	BOY'S TOILET ROOM	PT	PT-4 & 2	PT	-	PT	-	PT 1, 2 & 3	PT	-	PT 1, 2 & 3	PT	-	PT 1, 2 & 3	PT	-	PT 1, 2 & 3	GYP	SGL	P-1	9'-0"	
C23	GIRL'S TOILET ROOM	PT	PT-4 & 2	PT	-	PT	-	PT 1, 2 & 3	PT	-	PT 1, 2 & 3	PT	-	PT 1, 2 & 3	PT	-	PT 1, 2 & 3	GYP	SGL	P-1	9'-0"	

ROOM FINISH SCHEDULE - BOOKROOM

NO.	ROOM NAME	FLOOR		BASE		WALL NORTH			WALL EAST			WALL SOUTH			WEST			CEILING				COMMENTS
		MATERIAL	FINISH	MATERIAL	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	
Z1	BOOK ROOM	CON-1/LVT-2	-	RUB	RUB-1	GYP.	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	ACT	FF	ACT-1	8'-6"	

ROOM FINISH SCHEDULE - BUILDING P101

NO.	ROOM NAME	FLOOR		BASE		WALL NORTH			WALL EAST			WALL SOUTH			WEST			CEILING				COMMENTS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	
P101-1	OPEN OFFICE	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	ACT	FF	ACT-1	8'-6"	
P101-2	OFFICE	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	(E) ACT	-	-	8'-6"	
P101-3	TOILET ROOM	(E) SV	(E) SV	(E) SV	(E) SV	(E) FRP	FF	(E) FRP	(E) FRP	FF	(E) FRP	(E) FRP	FF	(E) FRP	(E) FRP	FF	(E) FRP	(E) ACT	-	-	8'-6"	
P101-4	TOILET ROOM	(E) SV	(E) SV	(E) SV	(E) SV	(E) FRP	FF	(E) FRP	(E) FRP	FF	(E) FRP	(E) FRP	FF	(E) FRP	(E) FRP	FF	(E) FRP	(E) ACT	-	-	8'-6"	
P101-5	CONFERENCE	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	ACT	FF	ACT-1	8'-6"	
P101-6	OFFICE	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	ACT	FF	ACT-1	8'-6"	
P101-7	OFFICE	CPT	CPT-1	RUB	RUB-1	GYP	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	GYP.	EGS	P-1	ACT	FF	ACT-1	8'-6"	

ROOM FINISH SCHEDULE - BUILDING P104

NO.	ROOM NAME	FLOOR		BASE		WALL NORTH			WALL EAST			WALL SOUTH			WEST			CEILING				COMMENTS
		MATERIAL	FIHISH	MATERIAL	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	
P104-1	LOUNGE	SV	SV-1	SV-COVED	SV-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP	SGL	P-1	8'-6"	
P104-2	SERVING	SV	SV-1	SV-COVED	SV-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP	SGL	P-1	8'-6"	
P104-3	JANITOR	SV	SV-1	SV-COVED	SV-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP	SGL	P-1	8'-6"	
P104-4	STORAGE	SV	SV-1	SV-COVED	SV-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	GYP.	SGL	P-1	ACT	FF	ACT-1	8'-6"	

GENERAL NOTES

1. USE MOISTURE RESISTANT GYPSUM BOARD THAT SATIFIES ASTM C473 FOR WATER RESISTANCE AND ASTM G21 FOR MOLD RESISTANCE AT ALL WET WALLS.
2. ALL EXPOSED WOOD ON MILLWORK TO BE PAINTED TO MATCH MOST IMMEDIATE ADJACENT WALL SURFACES.
3. ALL GYPSUM BOARD WALLS TO BE LEVEL "4" FINISH.
4. FRAMED TACKABLE SURFACE PER INTERIOR ELEVATIONS.
5. RESTROOM GYPSUM BOARD CEILINGS TO BE GLOSS FINISH.
6. CERAMIC WALL TILE TO BE 60" AFF, WITH ENAMEL PAINTED GYPSUM BOARD ABOVE, WHERE OCCURS, WITH STAINLESS STEEL TRIM AT CORNER CONDITIONS.
7. FRP TO 60" AFF, WITH PAINTED GYPSUM BOARD ABOVE TO BE PAINTED PER SCHEDULE.
8. SEE FINISH FLOOR PLAN FOR PAINT COLOR LOCATIONS.
9. SEE FINISH FLOOR PLANS FOR FLOORING COLORS/PATTERNS.
10. SEE INTERIOR ELEVATIONS FOR WALL TILE COLORS/PATTERNS.
11. WHERE ABUSIVE RESISTIVE GYPSUM BOARD IS INDICATED, PROVIDE ONLY UP TO 8' AFF, THEN PROVIDE REGULAR GYPSUM BOARD WHERE INDICATED PER WALL TYPE.
12. ALL WALLS AND CEILINGS ARE EXISTING, U.O.N.

COLOR LEGEND

CPT -1 - INTERFACE, HARMONIZE: MESQUITE
CPT - 2 - INTERFACE, ON-LINE: CANARY
CPT - 3 - INTERFACE, ON-LINE: BERRY
LVT - 1 - INTERFACE, STUDIO SET: SAND
LVT - 2 - INTERFACE, STUDIO SET: PEPPER
P - 1 - SHERWIN-WILLIAMS: ALABASTER SW 7008
P - 2 - SHERWIN-WILLIAMS: LET IT RAIN SW 9152
PT - 1 - DALTILE, PORTFOLIO VIVID: CRIMSON RED
PT - 2 - DALTILE, THEORETICAL BOLD: PRIMARY YELLOW
PT - 3 - DALTILE, VOLUME 1.0, REVERB ASH
PT - 4 - DALTILE, ASTRONOMY, SOLSTICE
RUB-1 - MANNINGTON BURKE: 660 ROCKY 4"
RUB-2 - MANINGTON BURKE:660 ROCKY 6"
SV - 1 - INTERFACE, CONTINUAL GRAINS, SILVER OAK

FINISH MATERIAL LEGEND

(E) ACT - PAINT EXISTING CEILING GRIDS & ACOUSTICAL PANELS, MATCH COLOR TO ORIGINAL ARMSTRONG COLOR

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
CPT	CARPET TILE
CT	CERAMIC TILE
CON-1	CONCRETE W/ CLR. SEALER
EGS	EGGSHELL
FF	FACTORY FINISH
FRP	FIBERGLASS-REINFORCED PLASTIC
GYP	GYPSUM BOARD
LVT	LUXURY VINYL TILE
MFR.	MANUFACTURER
PT	PORCELAIN TILE
P	PAINT
RUB	RUBBER BASE
SGL	SEMI-GLOSS
SV	SHEET VINYL

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SDVOSB

Mountain Empire Unified School Disctrict

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DAVY PROJECT No: 2017
DRAWN BY: MEP
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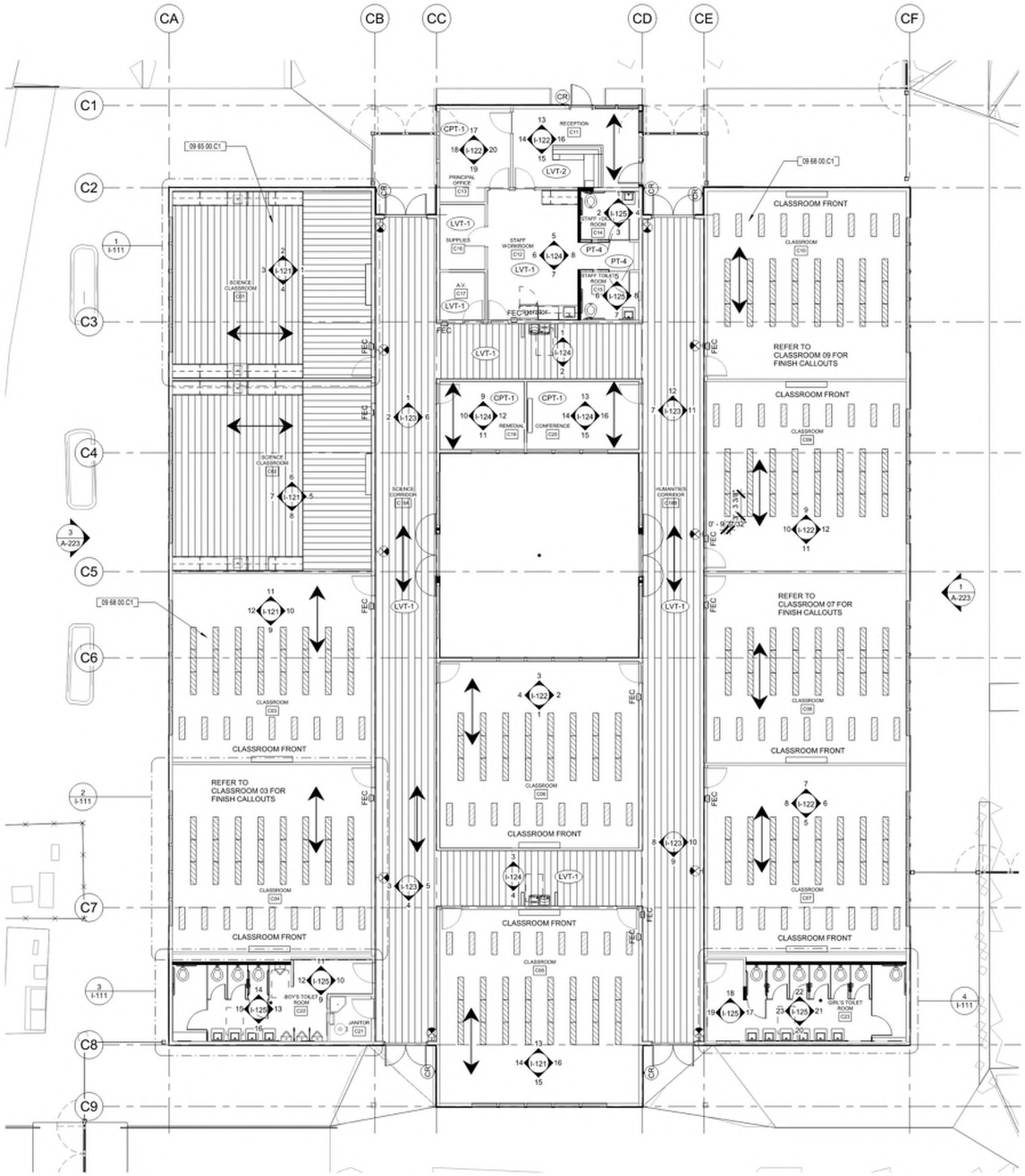
ROOM FINISH SCHEDULE

I-100

9/27/2022 9:30:17 AM



1 BUILDING C - FINISH PLAN
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

GENERAL NOTES

1. DIMENTIONS FOR MIRRORED OR SYMETRICAL CONSTRUCTION MAY BE ILLUSTRATED AT ONE SIDE AND SHALL BE ASSUMED SIMILAR FOR THE OTHER.
2. KEYNOTES MAY BE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. SIMILAR CONSTRUCTION OR BUILDING ELEMENTS SHALL BE ASSUMED TO BE NOTED SIMILARLY. KEYNOTES APPLY TYPICALLY, U.O.N.
3. RESILIANT FLOOR SHALL BE STABLE, FIRM, AND SLIP RESISTANT. **CBC SECTION 11B-302.1**
4. CERAMIC TILE FLOORING SHALL BE STABLE, FIRM, AND SLIP RESISTANT. **CBC SECTION 11B-302.1**
5. **CARPET / CARPET TILE FLOORING: CBC SECTION 11B-302.2** CARPET SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. IT SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2" MAXIMUM. EXPOSED EDGES SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH. CARPET EDGES SHALL COMPLY WITH **CBC SECTION 11B-303**

KEYNOTES

09 65 00.C1	LUXURY VINYL TILE
09 68 00.C1	CARPET

LEGEND

↔ ASHLAR PATTERN DIRECTION

(X-1) FLOOR / WALL MATERIAL

FLOOR / WALL MATERIAL LIST

CPT - 1 -	INTERFACE, HARMONIZE: MESQUITE
CPT - 2 -	INTERFACE, ON-LINE: CANARY
CPT - 3 -	INTERFACE, ON-LINE: BERRY
LVT - 1 -	INTERFACE, STUDIO SET: SAND
LVT - 2 -	INTERFACE, STUDIO SET: PEPPER
PT - 1 -	DALTILE, PORTOLIO VIVID: CRIMSON RED
PT - 2 -	DALTILE, THEORETICAL BOLD: PRIMARY YELLOW
PT - 3 -	DALTIME, VOLUME 1.0, REVERB ASH
PT - 4 -	DALTIME, ASTRONOMY, SOLSTICE
SV - 1 -	INTERFACE, CONTINUAL GRAINS, SILVER OAK
P - 1 -	SHERWIN WILIAMS: ALABASTER SW7008
P - 2	

CARPET

▭ CPT - 1
▨ CPT - 2
▨ CPT - 3

LUXURY VINYL TILE

▥ LVT - 1
▤ LVT - 2

PORCELAIN TILE

▩ PT - 1
▦ PT - 2
▭ PT - 3 - WALL
▭ PT - 4 - FLOOR

IDENTIFICATION STAMP
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APP: 04-121018 INC:
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DATE: 10/25/2022

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SAN DIEGO, CA 92101
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www.davyarchitecture.com

NO. C28089
REN. 05/31/23

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

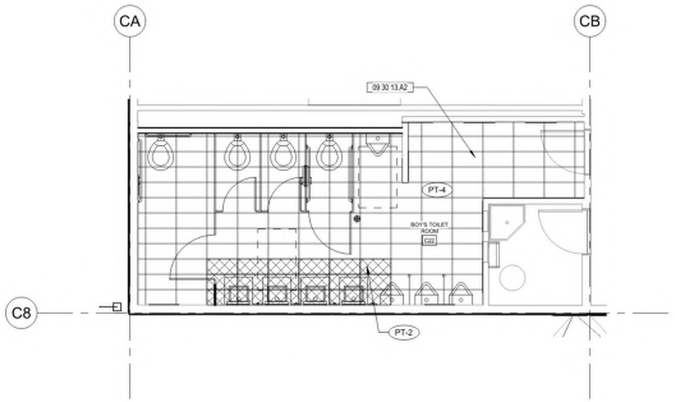
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

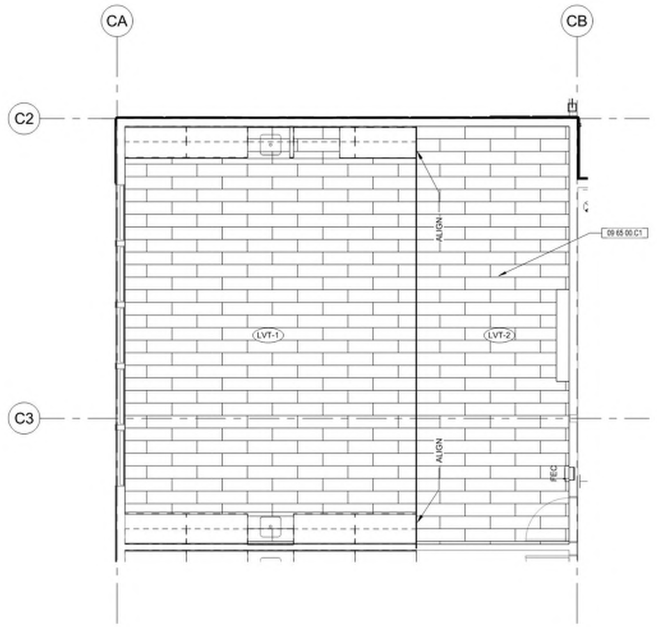
FINISH PLANS -
BUILDING C

I-110

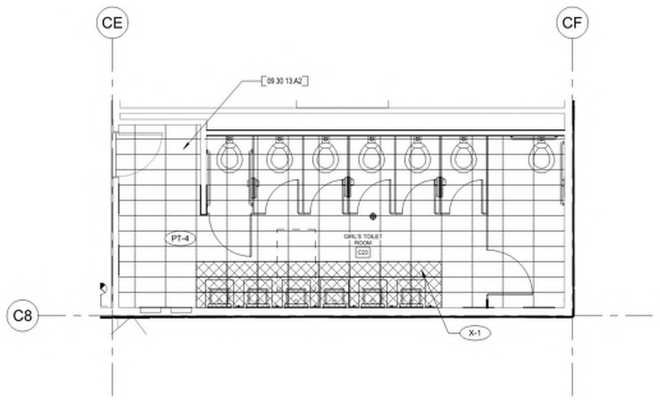
9/27/2022 2:11:12 PM



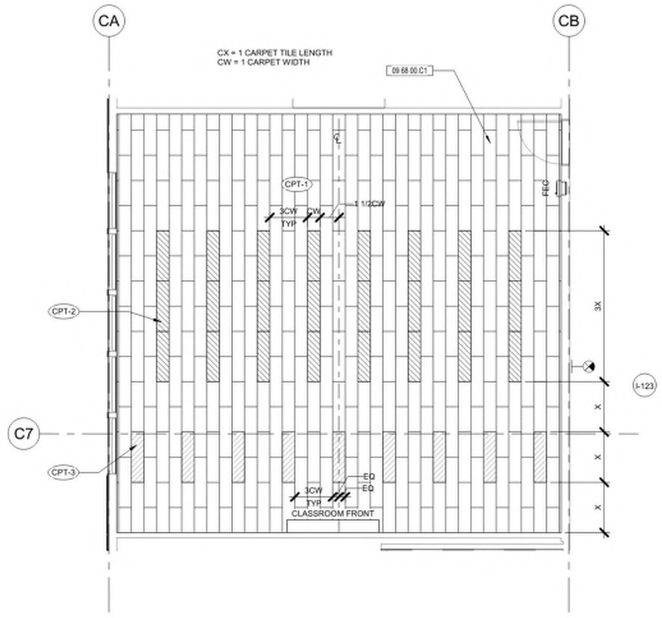
3 ENLARGED BOY'S TOILET ROOM PLAN
1/4" = 1'-0"



1 ENLARGED SCIENCE CLASSROOM PLAN
1/4" = 1'-0"



4 ENLARGED GIRL'S TOILET ROOM PLAN
1/4" = 1'-0"



2 ENLARGED TYPICAL CLASSROOM PLAN
1/4" = 1'-0"

GENERAL NOTES

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KEYNOTES

09 30 13.A2	PORCELAIN TILE SMARTSTEP TECHNOLOGY
09 65 00.C1	LUXURY VINYL TILE
09 68 00.C1	CARPET

LEGEND

ASHLAR PATTERN DIRECTION

X-1 FLOOR / WALL MATERIAL

FLOOR / WALL MATERIAL LIST

CPT - 1 -	INTERFACE, HARMONIZE: MESQUITE
CPT - 2 -	INTERFACE, ON-LINE: CANARY
CPT - 3 -	INTERFACE, ON-LINE: BERRY
LVT - 1 -	INTERFACE, STUDIO SET: SAND
LVT - 2 -	INTERFACE, STUDIO SET: PEPPER
PT - 1 -	DALTILE, PORTOLIO VIVID: CRIMSON RED
PT - 2 -	DALTILE, THEORETICAL BOLD: PRIMARY YELLOW
PT - 3 -	DALTIME, VOLUME 1.0, REVERB ASH
PT - 4 -	DALTIME, ASTRONOMY, SOLSTICE
SV - 1 -	INTERFACE, CONTINUAL GRAINS, SILVER OAK
P - 1 -	SHERWIN WILIAMS: ALABASTER SW7008
P - 2	

CARPET

CPT - 1

CPT - 2

CPT - 3

LUXURY VINYL TILE

LVT - 1

LVT - 2

PORCELAIN TILE

PT - 1

PT - 2

PT - 3 - WALL

PT - 4 - FLOOR

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1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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LICENSED ARCHITECT
TERRY K. STANTON
No. C28089
EXP. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

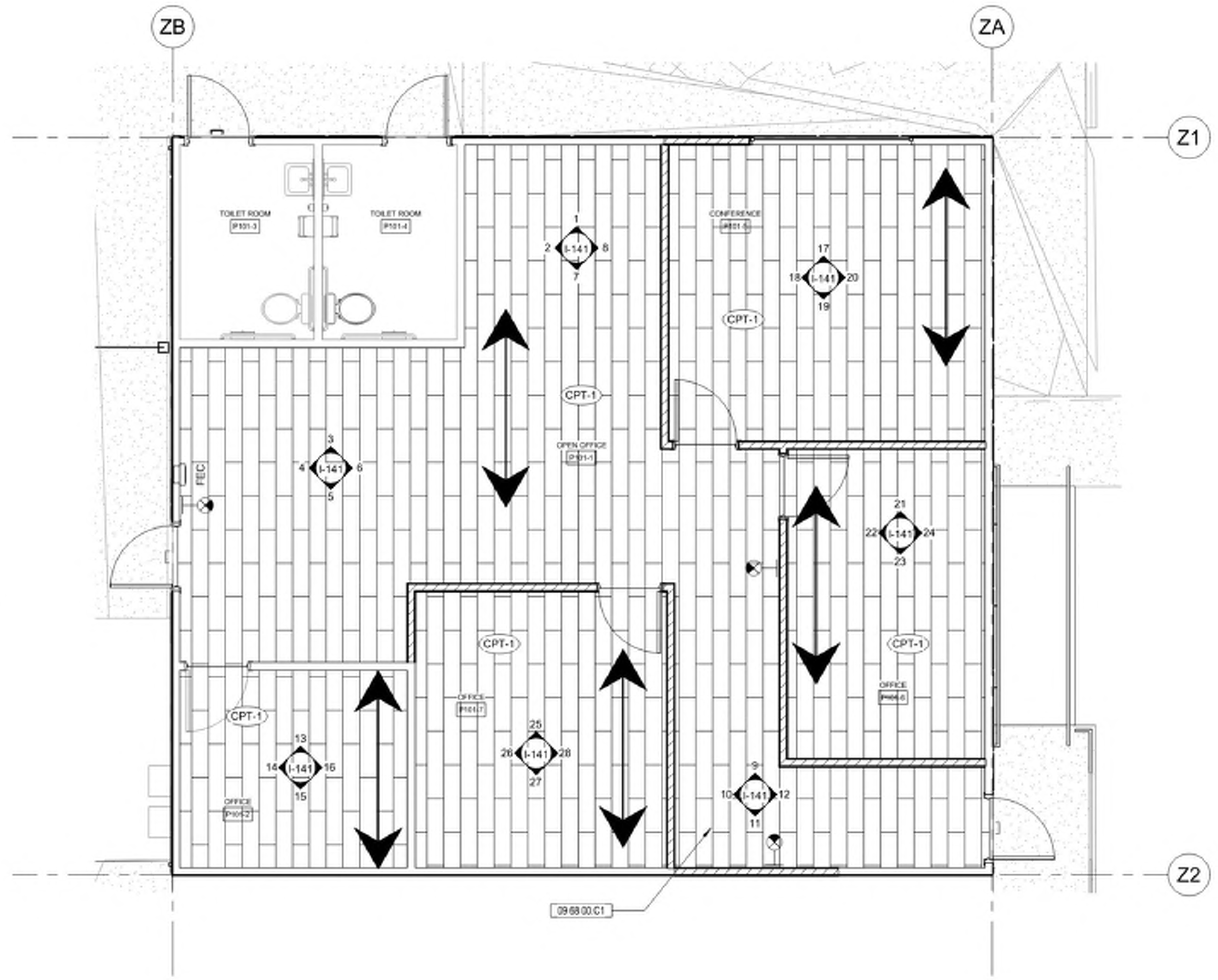
MARK	DATE	DESCRIPTION

DAVY PROJECT No:	2017
DRAWN BY:	Author
CHECKED BY:	Checker

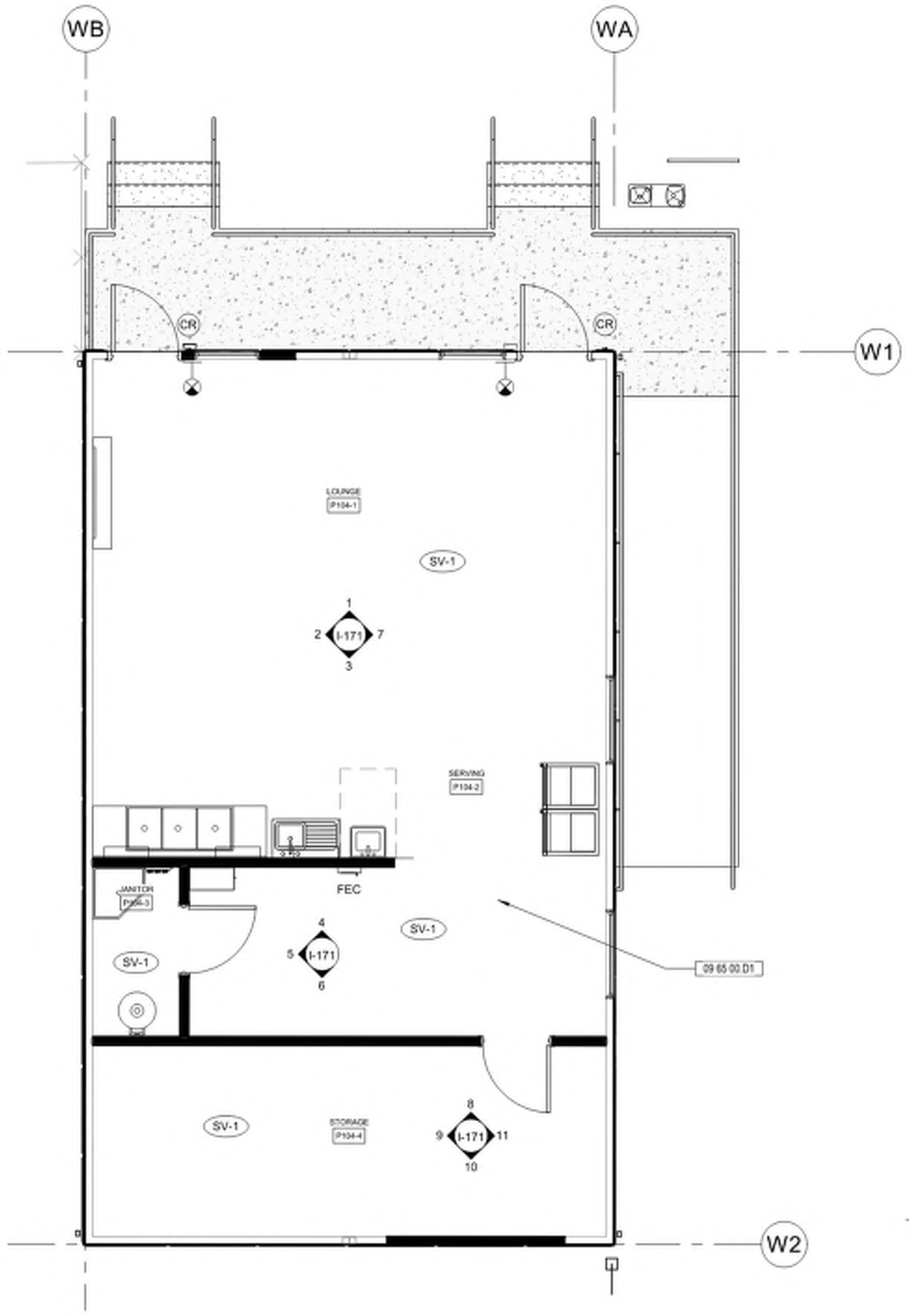
FINISH PLANS - BUILDING C - ENLARGED

I-111

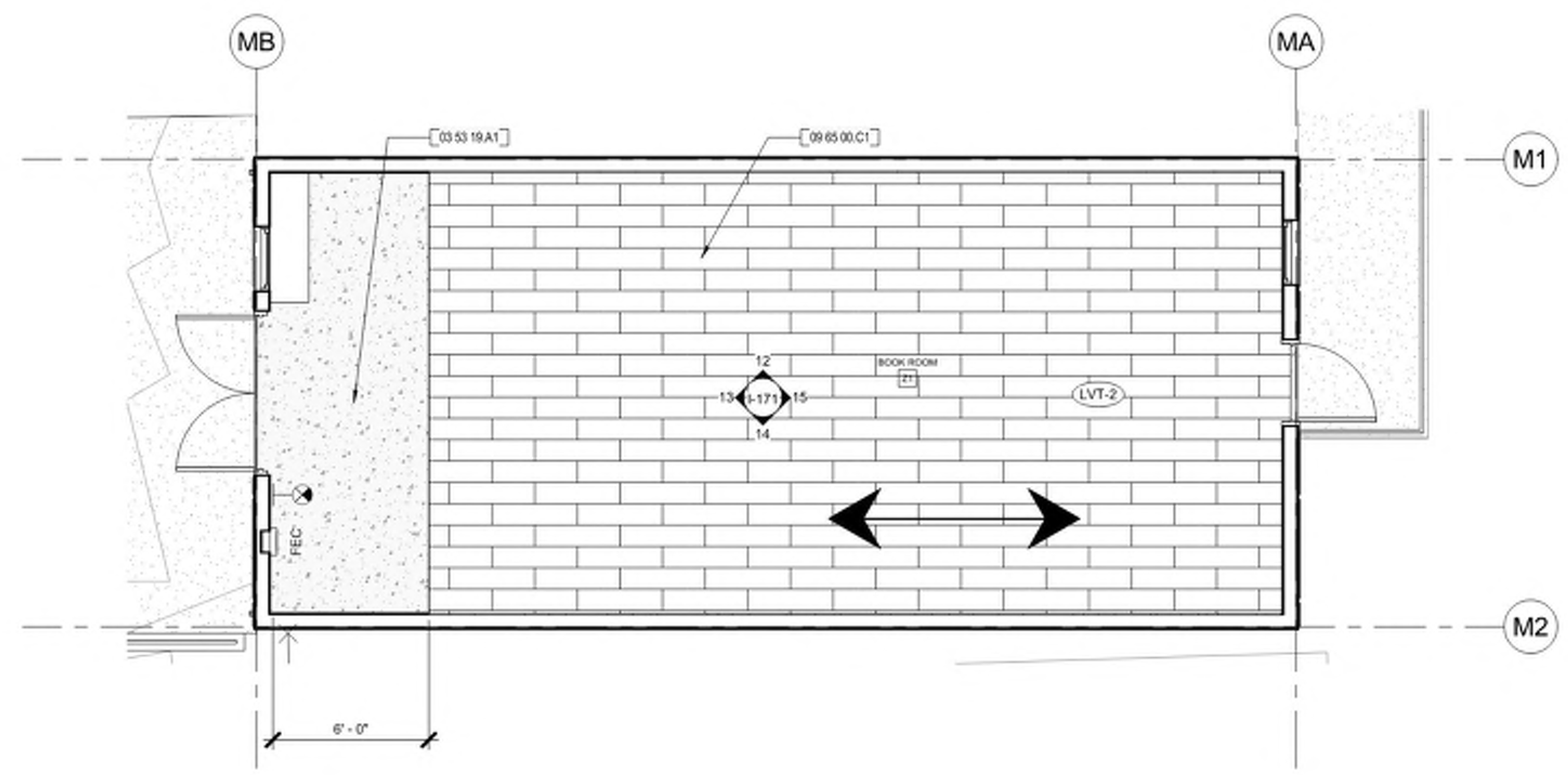
9/27/2022 9:30:28 AM



1 BUILDING P101 - FINISH PLAN
1/4" = 1'-0"



4 BUILDING P104 - FINISH PLAN
1/4" = 1'-0"



2 BUILDING BOOKROOM - FINISH PLAN
1/4" = 1'-0"

PLAN NORTH TRUE NORTH

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KEYNOTES

03 53 19.A1	CLEAR CONCRETE SEALER
09 65 00.C1	LUXURY VINYL TILE
09 65 00.D1	SHEET VINYL
09 68 00.C1	CARPET

LEGEND

ASHLAR PATTERN DIRECTION

X-1 FLOOR / WALL MATERIAL

FLOOR / WALL MATERIAL LIST

CPT - 1 -	INTERFACE, HARMONIZE: MESQUITE
CPT - 2 -	INTERFACE, ON-LINE: CANARY
CPT - 3 -	INTERFACE, ON-LINE: BERRY
LVT - 1 -	INTERFACE, STUDIO SET: SAND
LVT - 2 -	INTERFACE, STUDIO SET: PEPPER
PT - 1 -	DALTILE, PORTOLIO VIVID: CRIMSON RED
PT - 2 -	DALTILE, THEORETICAL BOLD: PRIMARY YELLOW
PT - 3 -	DALTIME, VOLUME 1.0, REVERB ASH
PT - 4 -	DALTIME, ASTRONOMY, SOLSTICE
SV - 1 -	INTERFACE, CONTINUAL GRAINS, SILVER OAK
P - 1 -	SHERWIN WILIAMS: ALABASTER SW7008
P - 2	

CARPET

CPT - 1

CPT - 2

CPT - 3

LUXURY VINYL TILE

LVT - 1

LVT - 2

PORCELAIN TILE

PT - 1

PT - 2

PT - 3 - WALL

PT - 4 - FLOOR

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SDVOSB

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

FINISH PLANS - BUILDING P101, BOOKROOM & P104

I-112

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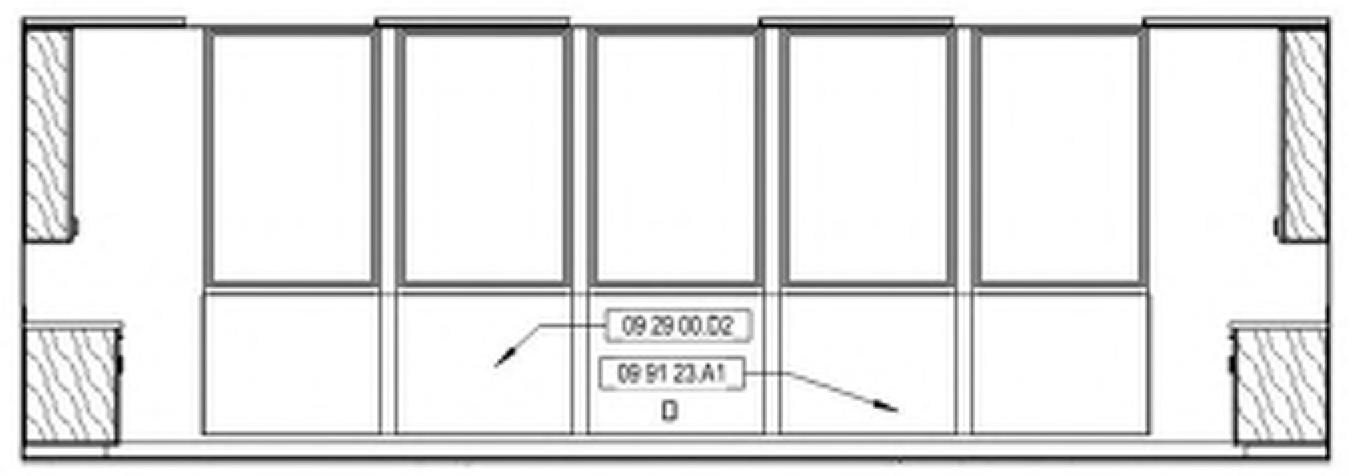
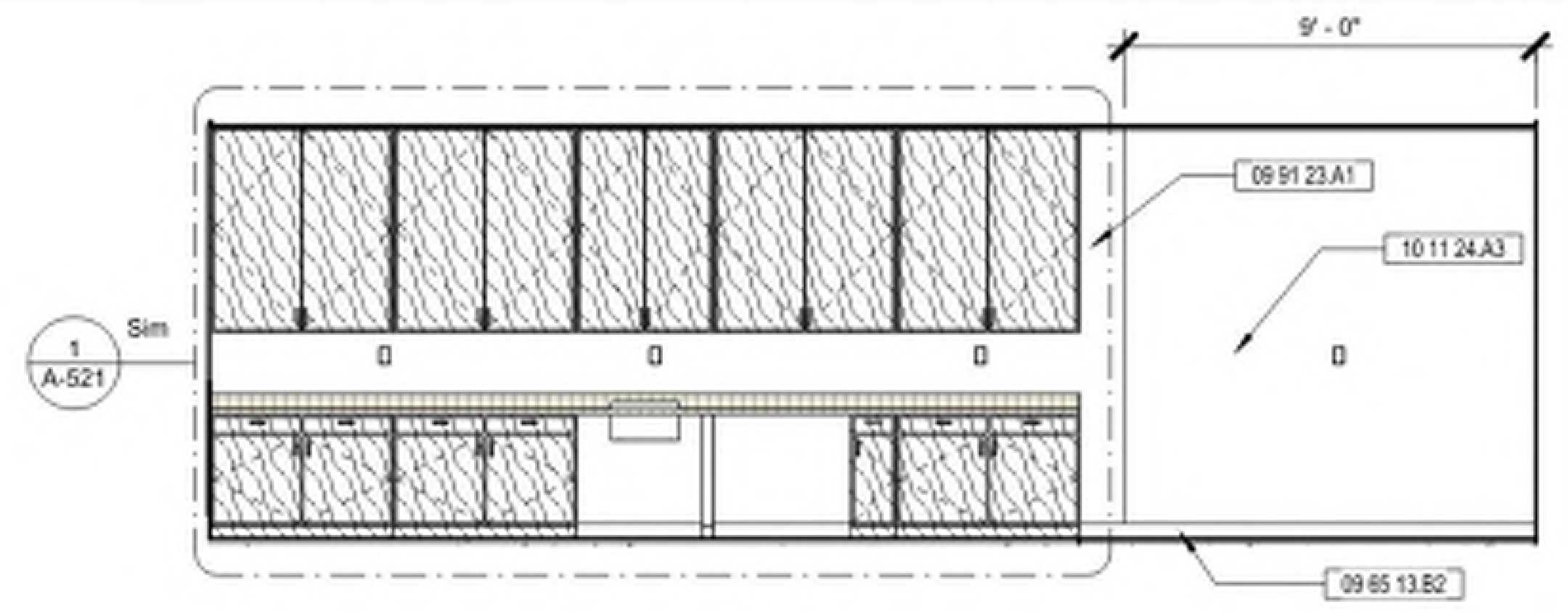
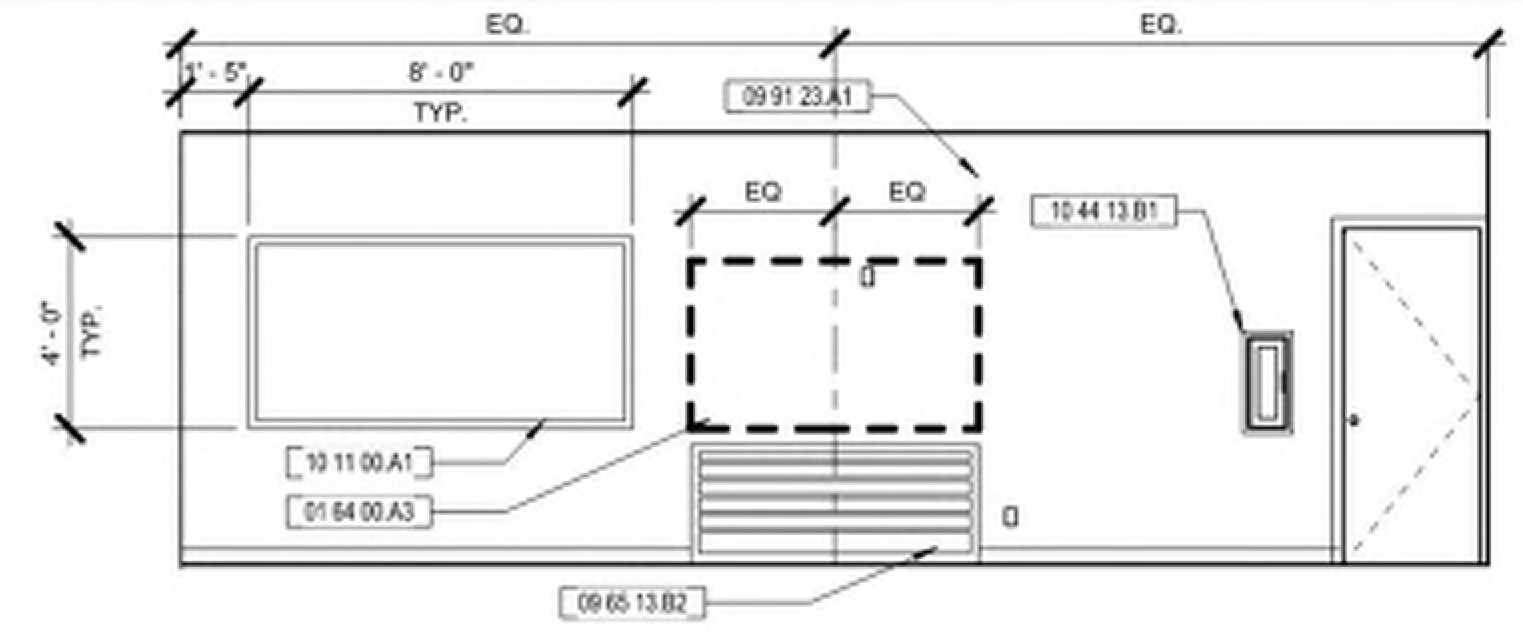


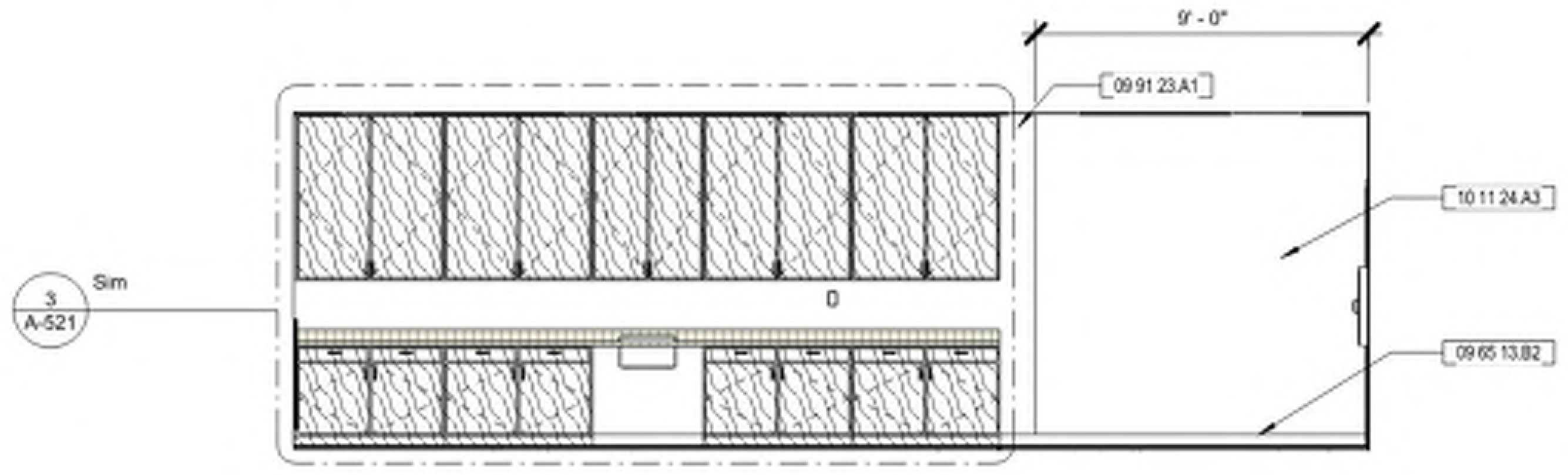
3 C01 - REAR
1/4" = 1'-0"



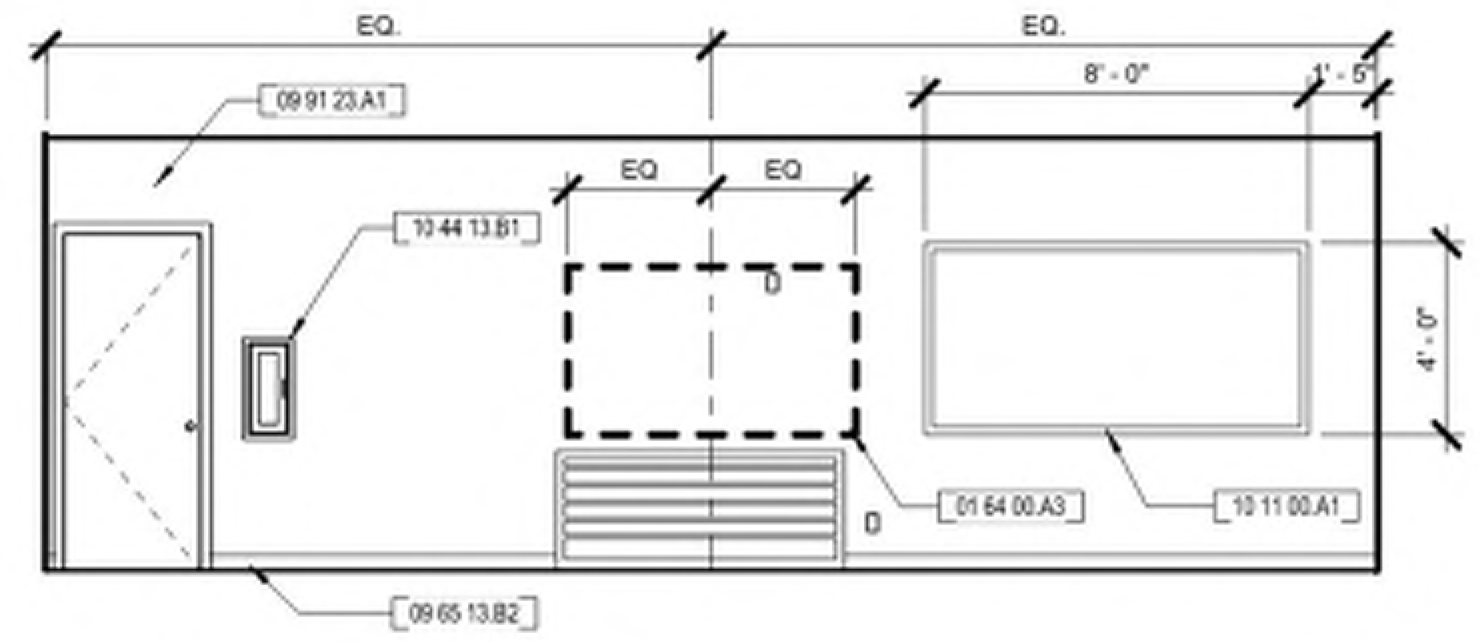
2 C01 - LEFT SIDE
1/4" = 1'-0"



1 C01 - FRONT
1/4" = 1'-0"



6 C02 - LEFT SIDE
1/4" = 1'-0"



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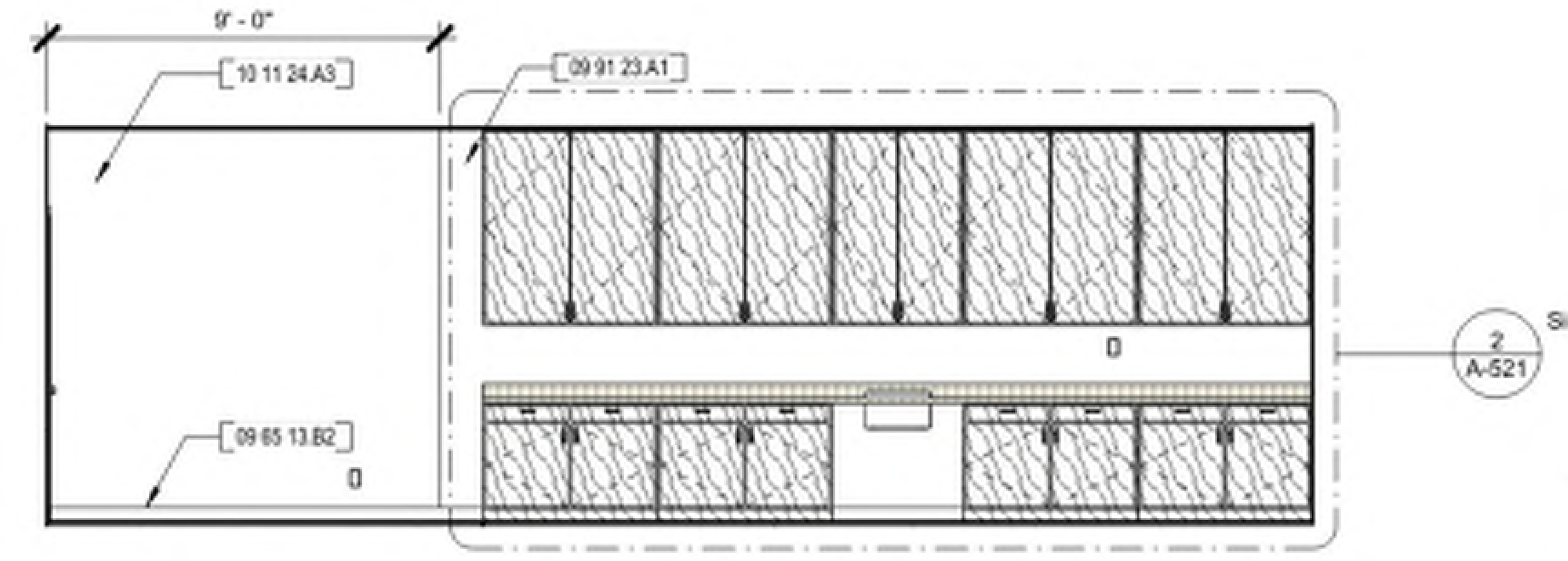
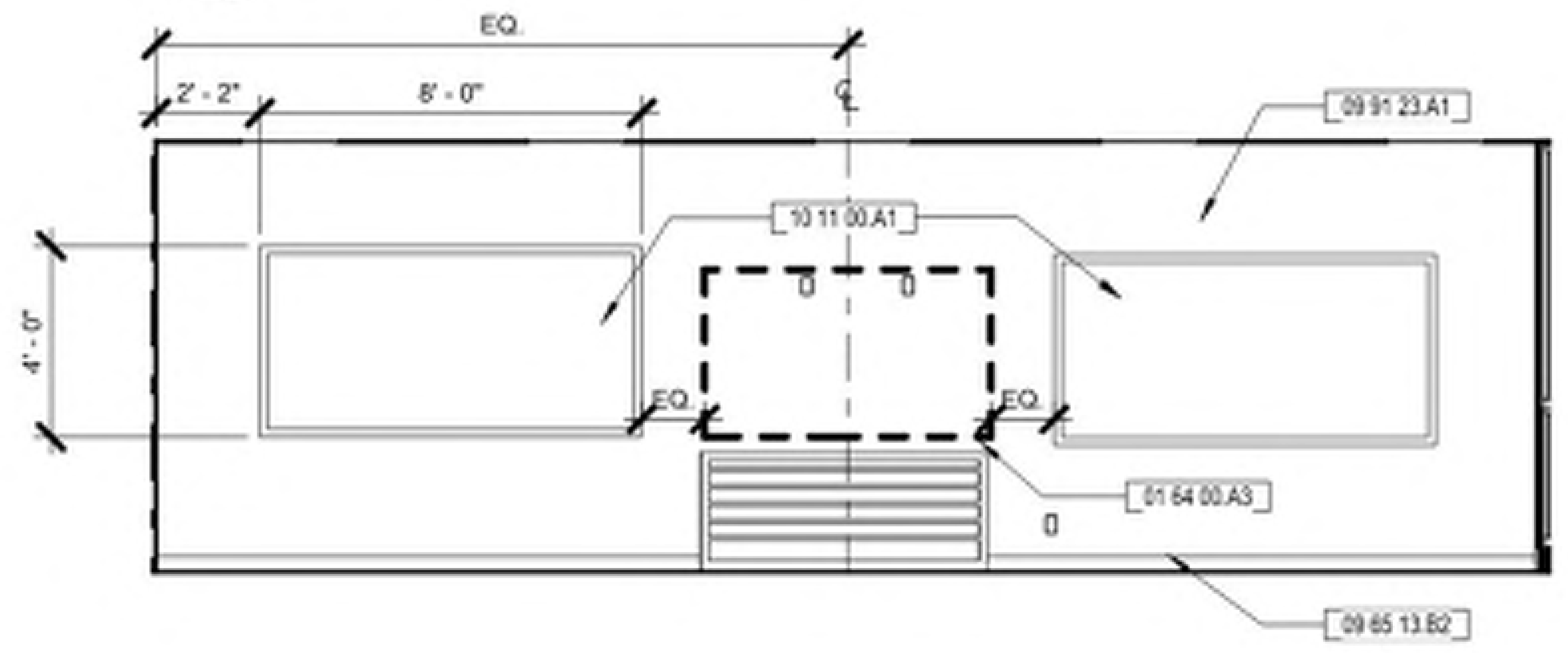
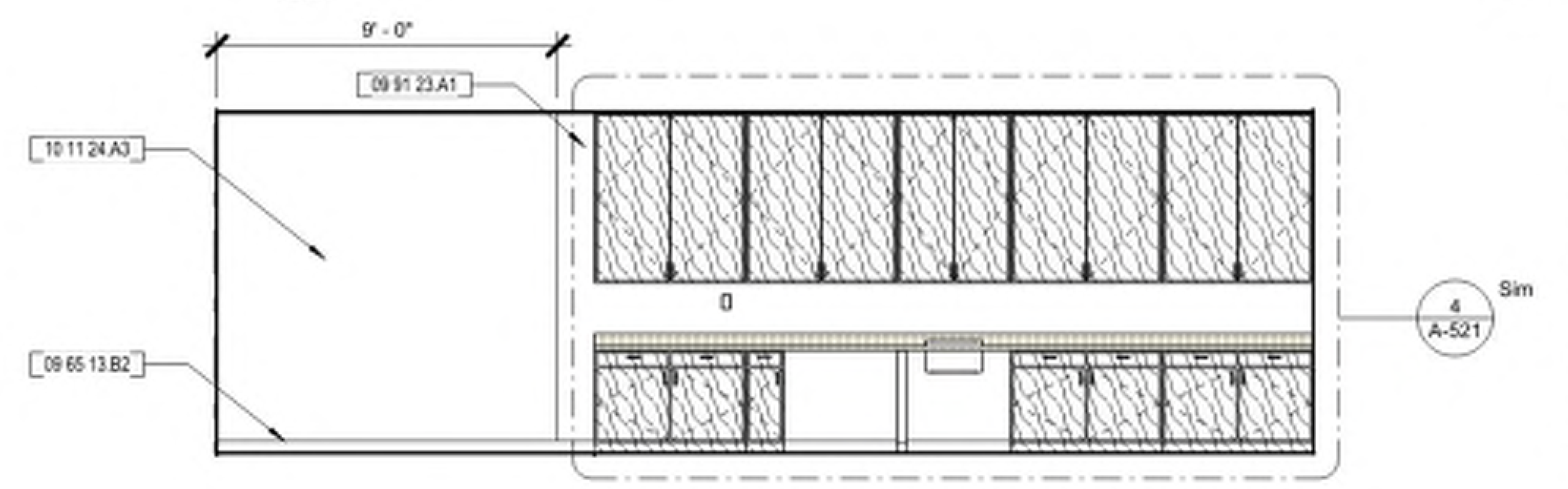
1/4" = 1'-0"



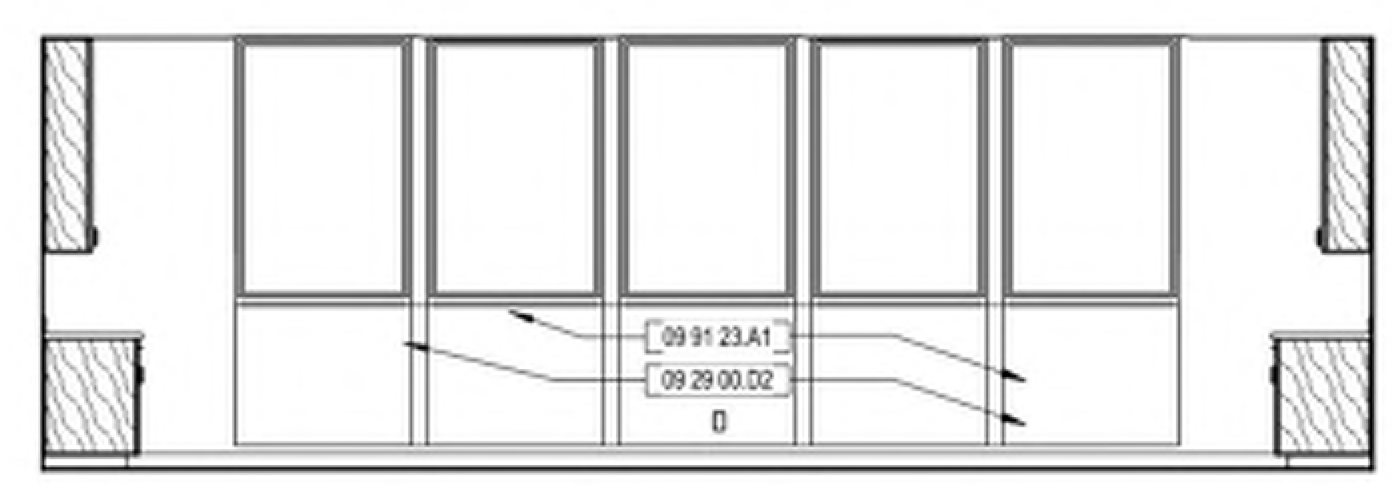
4 C01 - RIGHT SIDE
1/4" = 1'-0"



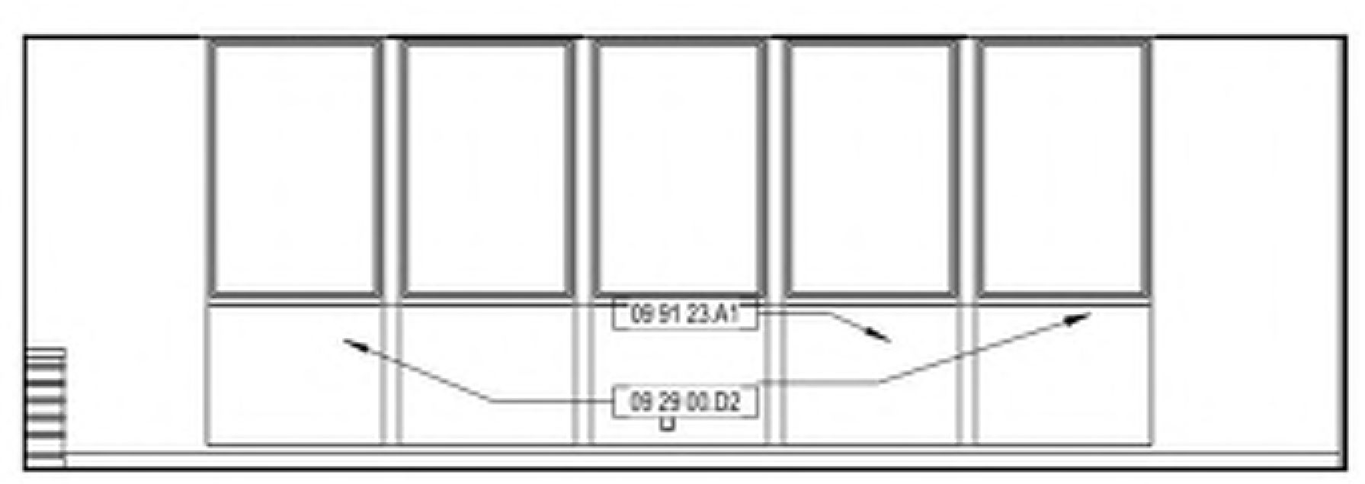
9 C03-C04 FRONT
1/4" = 1'-0"



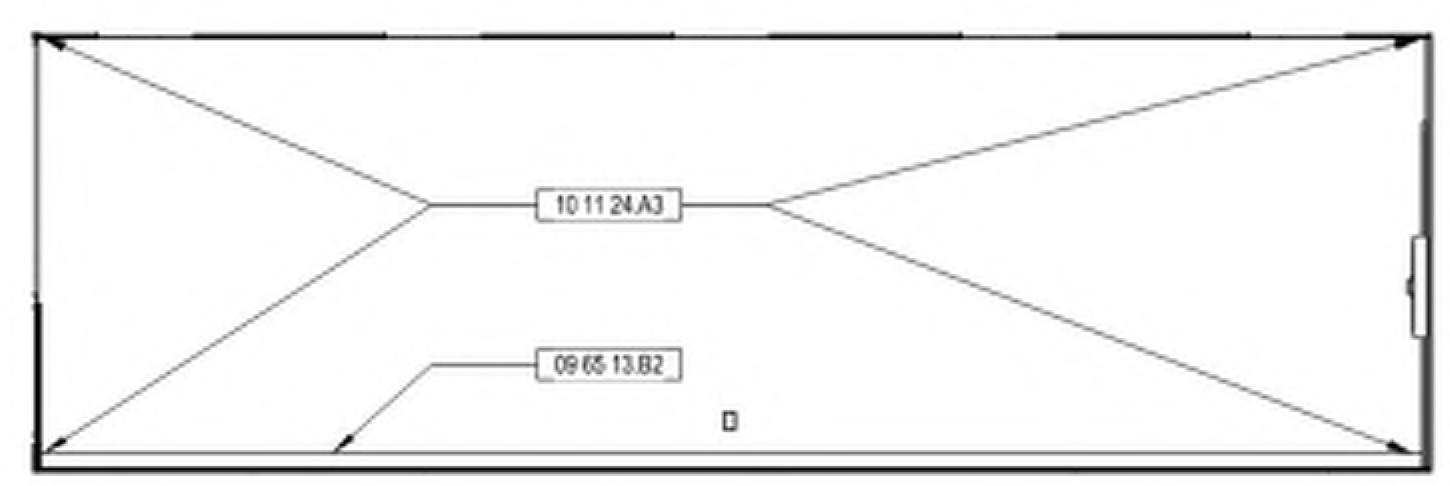
8 C02 - RIGHT SIDE
1/4" = 1'-0"



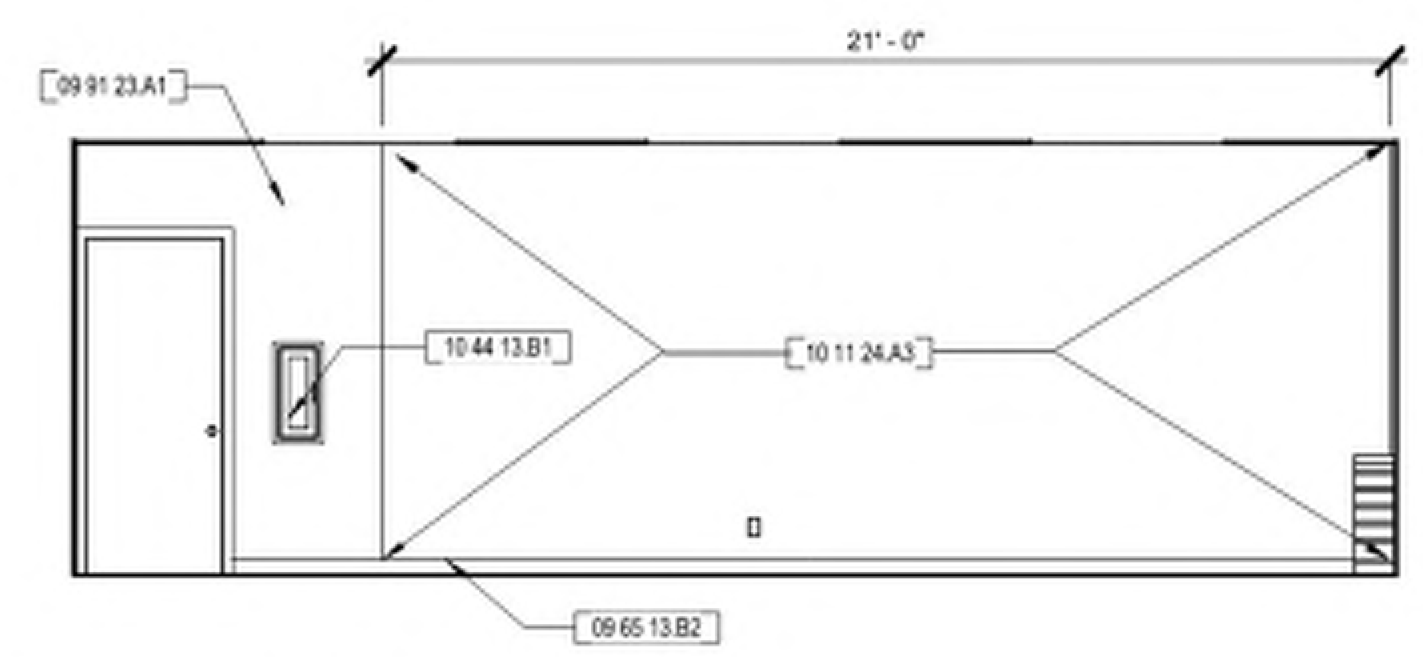
7 C02 - REAR
1/4" = 1'-0"



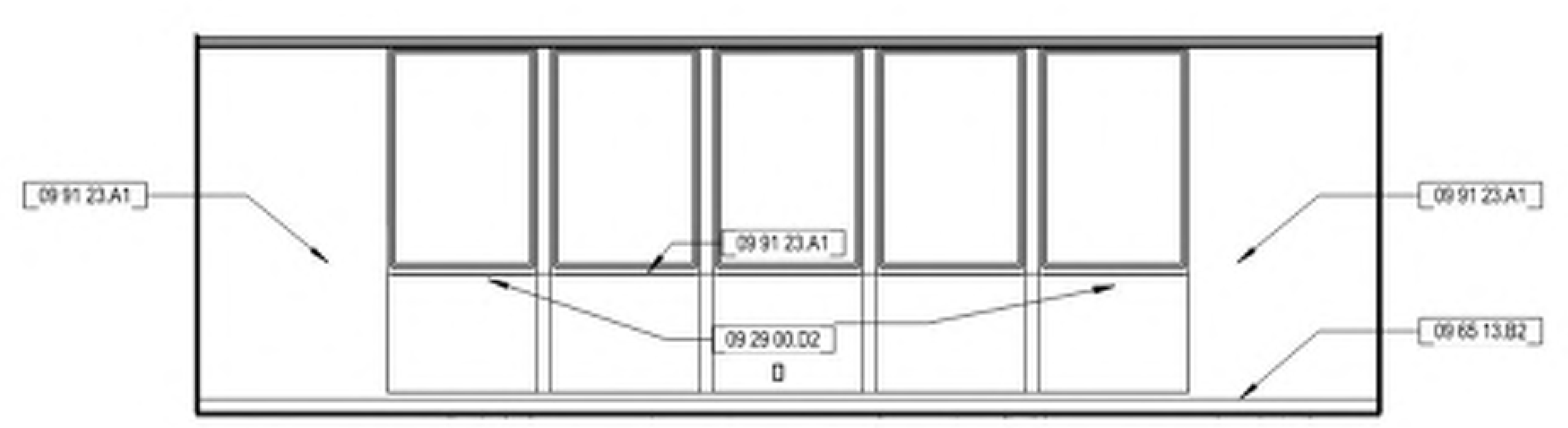
12 C03-C04 RIGHT SIDE
1/4" = 1'-0"



11 C03-C04 REAR
1/4" = 1'-0"



10 C03-C04 LEFT SIDE
1/4" = 1'-0"



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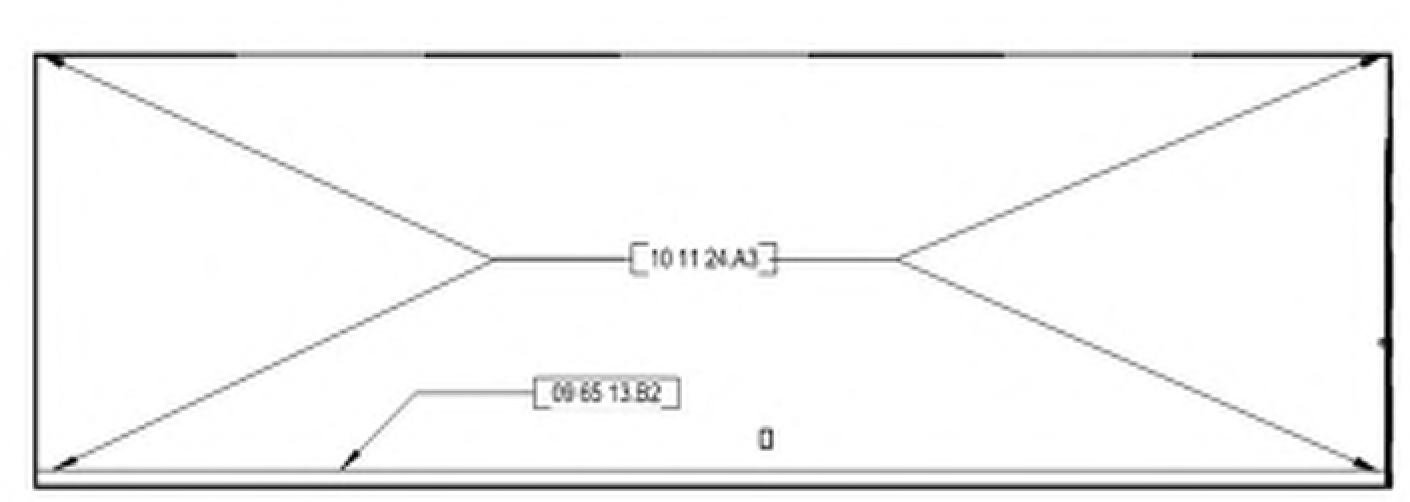
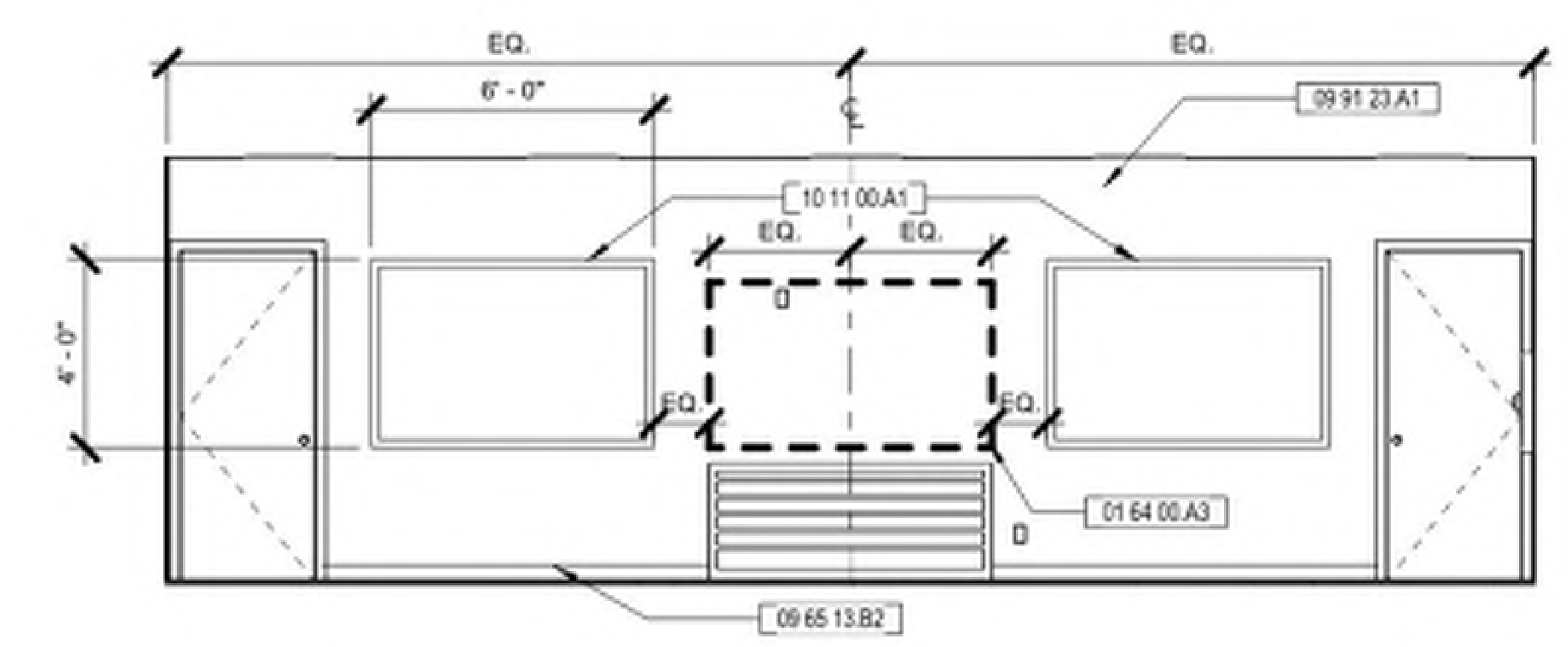
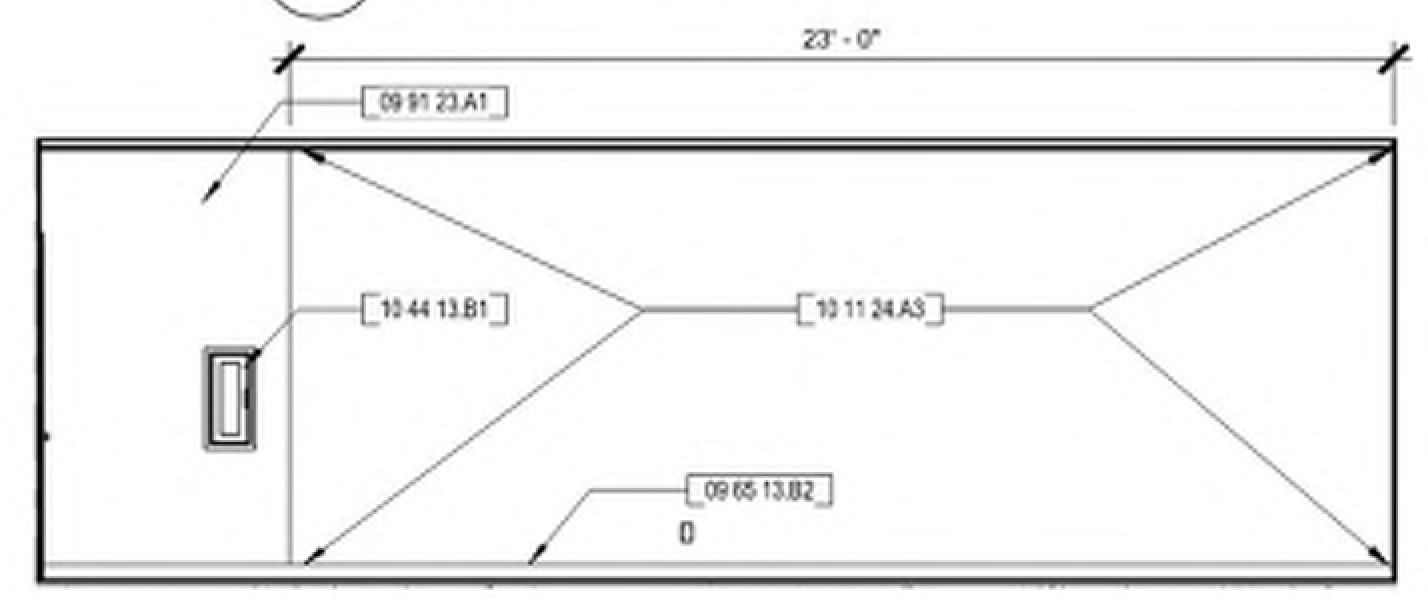
1/4" = 1'-0"



14 C05 - LEFT SIDE
1/4" = 1'-0"



13 C05 - FRONT
1/4" = 1'-0"



16 C05 - RIGHT SIDE
1/4" = 1'-0"

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KEYNOTES

01 64 00.A3	INTERACTIVE PROMETHEAN BOARD, WALL MOUNTED - OFOI, PROVIDE WALL BACKING, POWER & DATA, SIM TO 4/A-903
09 29 00.D2	1 LAYER 5/8" GYPSUM BOARD
09 65 13.B2	4" RESILIENT TOPSET BASE
09 91 23.A1	INTERIOR PAINT - P-1, UNO
10 11 00.A1	MARKER BOARD REFER TO 5/A-903
10 11 24.A3	TACKABLE WALL SURFACE
10 44 13.B1	SEMI-RECESSED FIRE EXTINGUISHER CABINET, REFER TO 6/A-903

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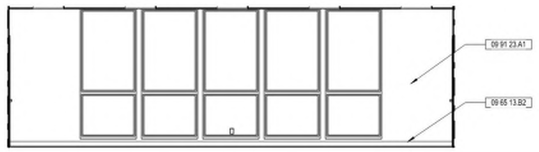
DAVY PROJECT No: 2017
DRAWN BY: JP / MEP
CHECKED BY: JM / AS

INT FINISH ELEVS - BUILDING C

I-121

9/27/2022 9:30:49 AM



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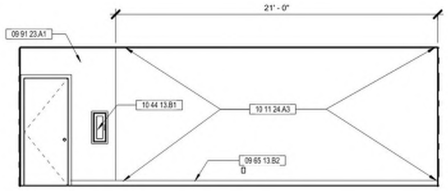
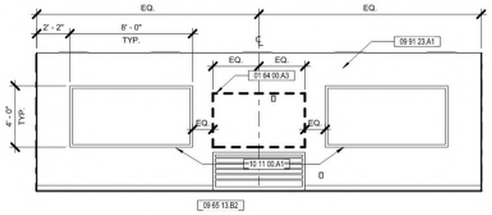
1/4" = 1'-0"



2 C06 - LEFT SIDE
1/4" = 1'-0"



1 C06 - FRONT
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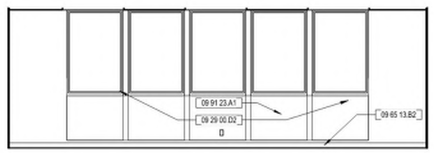

6 C07-C08 - LEFT SIDE
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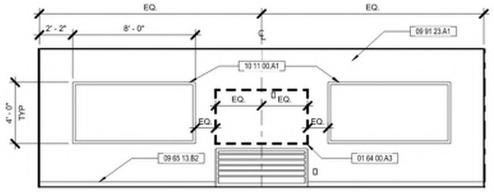
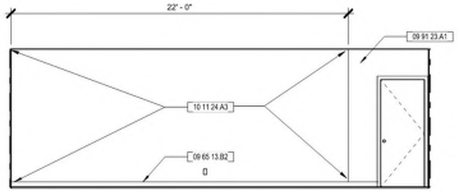


5 C07-C08 - FRONT
1/4" = 1'-0"



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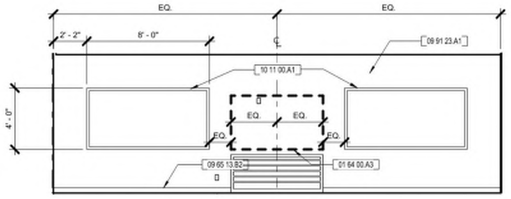

9 C09-C10 - FRONT
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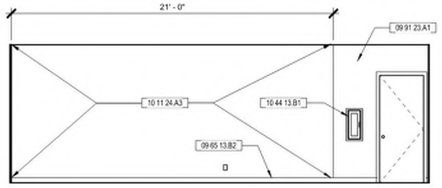

8 C07-C08 - RIGHT SIDE
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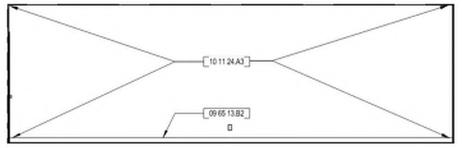

7 C07-C08 - REAR
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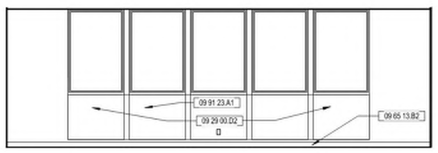
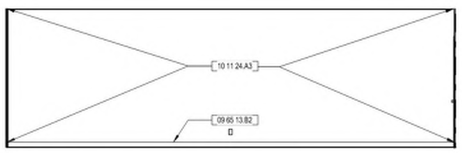
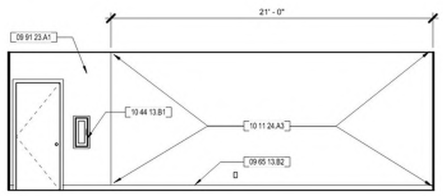


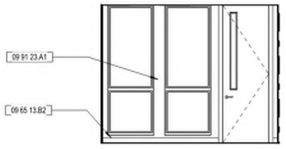
12 C09-C10 - RIGHT SIDE
1/4" = 1'-0"



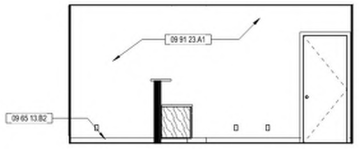
11 C09-C10 - REAR
1/4" = 1'-0"



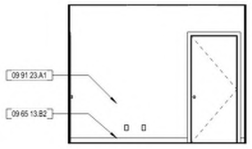
10 C09-C10 - LEFT SIDE
1/4" = 1'-0"



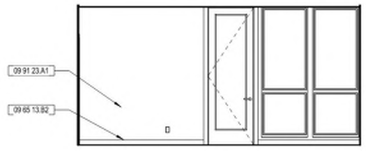
16 C11 FINISH - NORTH
1/4" = 1'-0"



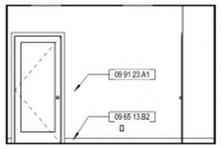
15 C11 FINISH - EAST
1/4" = 1'-0"



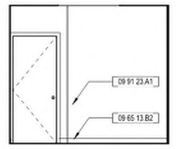
14 C11 FINISH - SOUTH
1/4" = 1'-0"



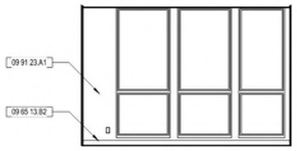
13 C11 FINISH - WEST
1/4" = 1'-0"



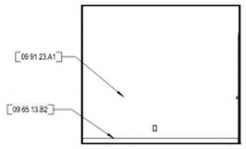
20 C13 - NORTH
1/4" = 1'-0"



19 C13 - EAST
1/4" = 1'-0"



18 C13 - SOUTH
1/4" = 1'-0"



17 C13 - WEST
1/4" = 1'-0"

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KEYNOTES

01 64 00.A3	INTERACTIVE PROMETHEAN BOARD, WALL MOUNTED - OFOI, PROVIDE WALL BACKING, POWER & DATA, SIM TO 4/A-903
09 29 00.D2	1 LAYER 5/8" GYPSUM BOARD
09 65 13.B2	4" RESILIENT TOPSET BASE
09 91 23.A1	INTERIOR PAINT - P-1, UNO
10 11 00.A1	MARKER BOARD REFER TO 5/A-903
10 11 24.A3	TACKABLE WALL SURFACE
10 44 13.B1	SEMI-RECESSED FIRE EXTINGUISHER CABINET, REFER TO 6/A-903

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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SDVOSB

LICENSED ARCHITECT
AUDREY K. STRATTON
No. C28089
REN: 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

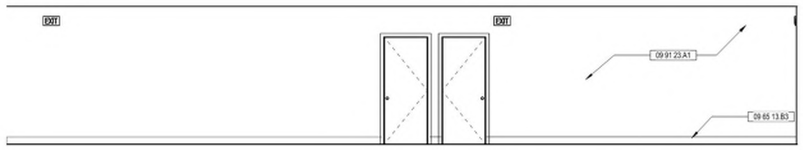
MARK	DATE	DESCRIPTION
-	04.29.2022	DSA SUBMITTAL
-	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	JP / MEP
CHECKED BY:	JM / AS

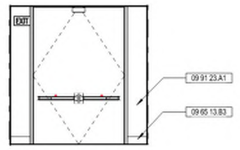
INT FINISH ELEVS - BUILDING C

I-122

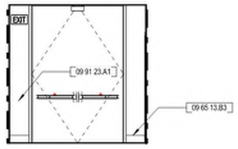
9/27/2022 9:31:07 AM

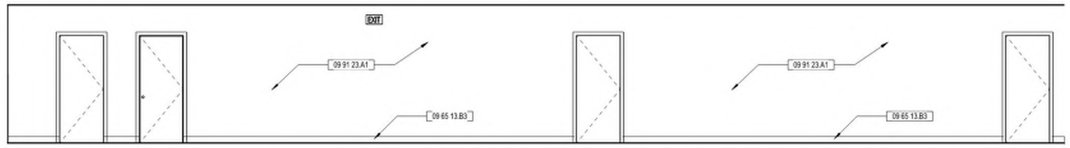


2 SCIENCE CORRIDOR C18A - SOUTH A
1/4" = 1'-0"



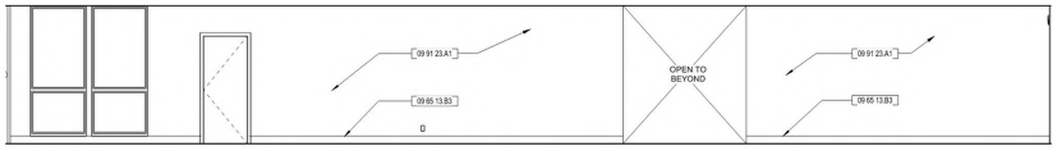
1 SCIENCE CORRIDOR C18A - WEST
1/4" = 1'-0"



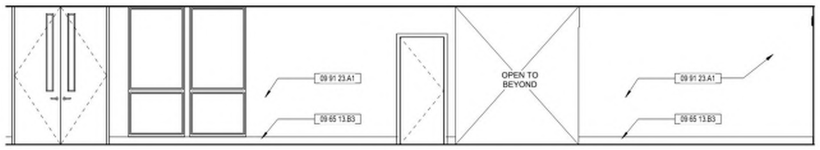


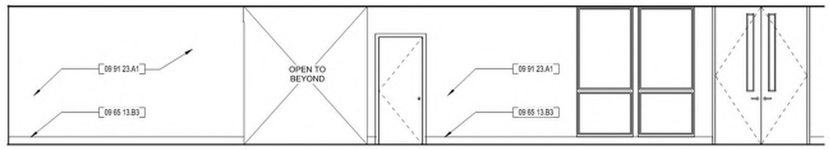
4 SCIENCE CORRIDOR C18A - EAST
1/4" = 1'-0"

3 SCIENCE CORRIDOR C18A - SOUTH B
1/4" = 1'-0"



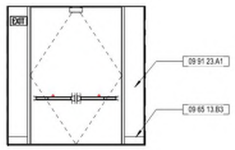
5 SCIENCE CORRIDOR C18A - NORTH A
1/4" = 1'-0"



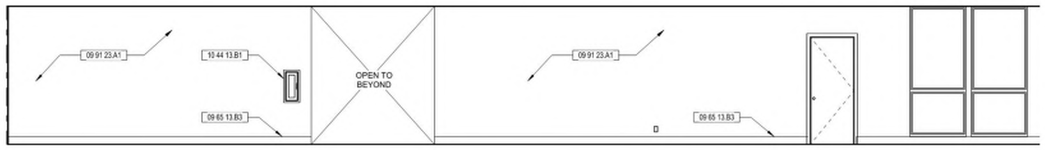


7 HUMANITIES CORRIDOR C18B - SOUTH A
1/4" = 1'-0"

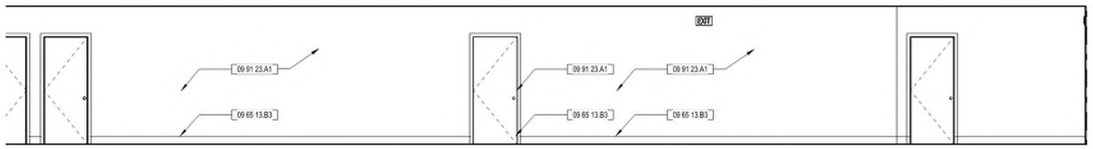
6 SCIENCE CORRIDOR 18A - NORTH B
1/4" = 1'-0"



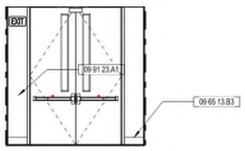
9 HUMANITIES CORRIDOR C18B - EAST
1/4" = 1'-0"



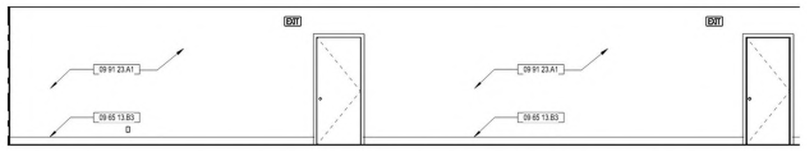
8 HUMANIETIES CORRIDOR C18B - SOUTH B
1/4" = 1'-0"



10 HUMANITIES CORRIDOR C18B - NORTH A
1/4" = 1'-0"



12 HUMANITIES CORRIDOR C18B - WEST
1/4" = 1'-0"



11 HUMANITIES CORRIDOR C18B - NORTH B
1/4" = 1'-0"

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KEYNOTES

09 65 13.B3	6" RESILIENT TOPSET BASE
09 91 23.A1	INTERIOR PAINT - P-1, UNO
10 44 13.B1	SEMI-RECESSED FIRE EXTINGUISHER CABINET, REFER TO 6/A-903

IDENTIFICATION STAMP
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APP: 04-121018 INC:
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DATE: 10/25/2022

DAVY ARCHITECTURE
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT
ROBERT V. DAVY
No. C28095
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

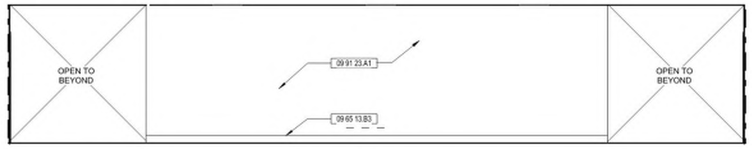
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	JP / MEP
CHECKED BY:	JM / AS

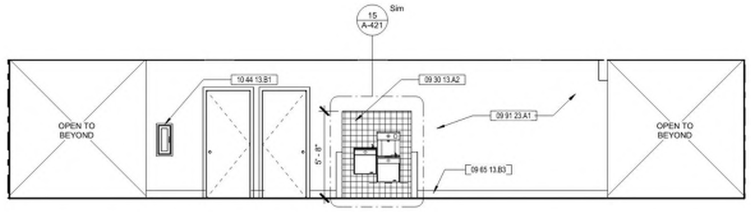
INT FINISH ELEVS - BUILDING C

I-123

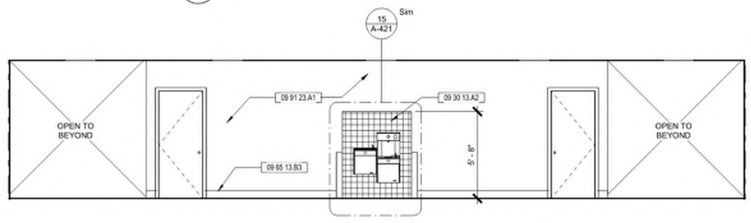
9/27/2022 9:31:19 AM



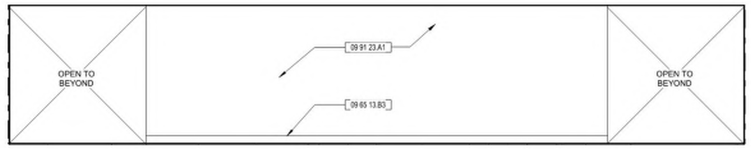
2 WEST CROSS CORRIDOR C18 - EAST
1/4" = 1'-0"



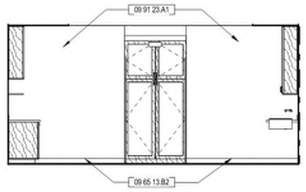
1 WEST CROSS CORRIDOR C18 - WEST
1/4" = 1'-0"



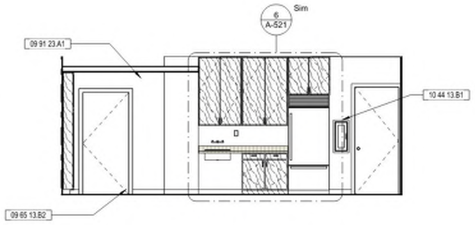
4 EAST CROSS CORRIDOR C18 - EAST
1/4" = 1'-0"



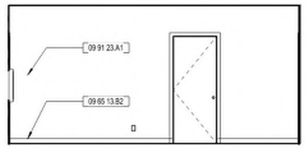
3 EAST CROSS CORRIDOR C18 - WEST
1/4" = 1'-0"



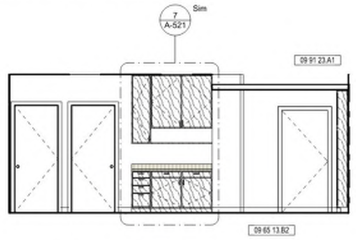
8 C12 FINISH - NORTH
1/4" = 1'-0"



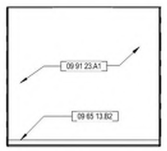
7 C12 FINISH - EAST
1/4" = 1'-0"



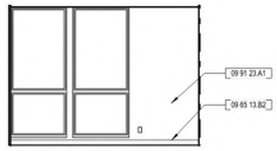
6 C12 FINISH - SOUTH
1/4" = 1'-0"



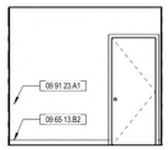
5 C12 FINISH - WEST
1/4" = 1'-0"



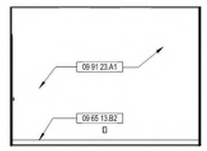
12 C19 - NORTH
1/4" = 1'-0"



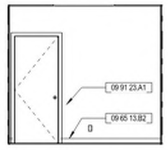
11 C19 - EAST
1/4" = 1'-0"



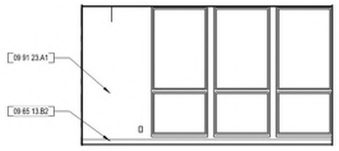
10 C19 - SOUTH
1/4" = 1'-0"



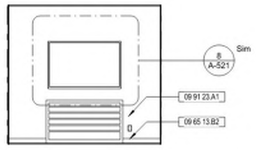
9 C19 - WEST
1/4" = 1'-0"



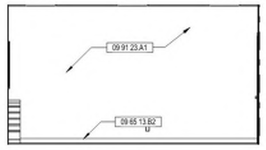
16 C20 FINISH - NORTH
1/4" = 1'-0"



15 C20 FINISH - EAST
1/4" = 1'-0"



14 C20 FINISH - SOUTH
1/4" = 1'-0"



13 C20 FINISH - WEST
1/4" = 1'-0"

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KEYNOTES

09 30 13.A2	PORCELAIN TILE SMARTSTEP TECHNOLOGY
09 65 13.B2	4" RESILIENT TOPSET BASE
09 65 13.B3	6" RESILIENT TOPSET BASE
09 91 23.A1	INTERIOR PAINT - P-1, UNO
10 44 13.B1	SEMI-RECESSED FIRE EXTINGUISHER CABINET, REFER TO 6/A-903

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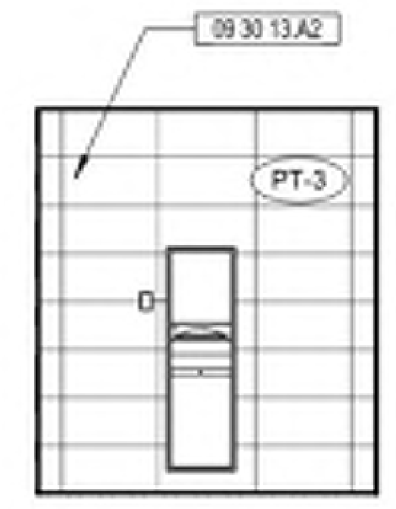
DAVY PROJECT No:	2017
DRAWN BY:	JP / MEP
CHECKED BY:	JM / AS

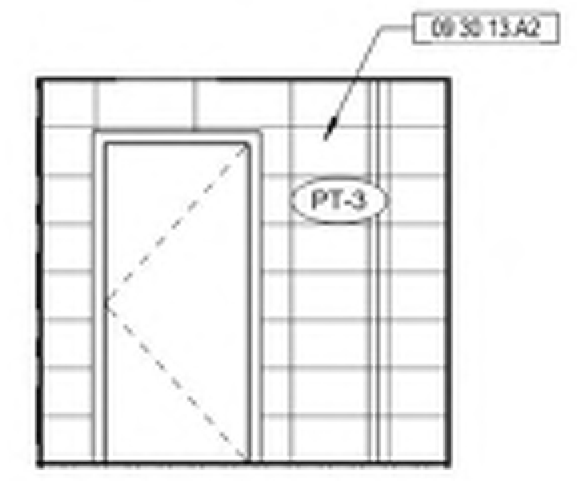
INT FINISH ELEVS - BUILDING C

I-124

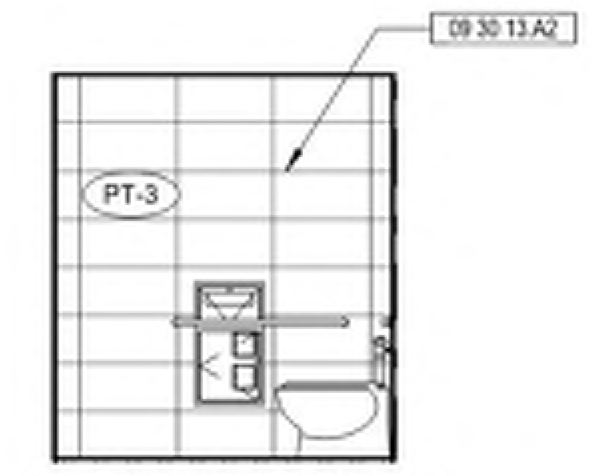
9/27/2022 9:31:35 AM



4 C14 FINISH - NORTH
1/4" = 1'-0"

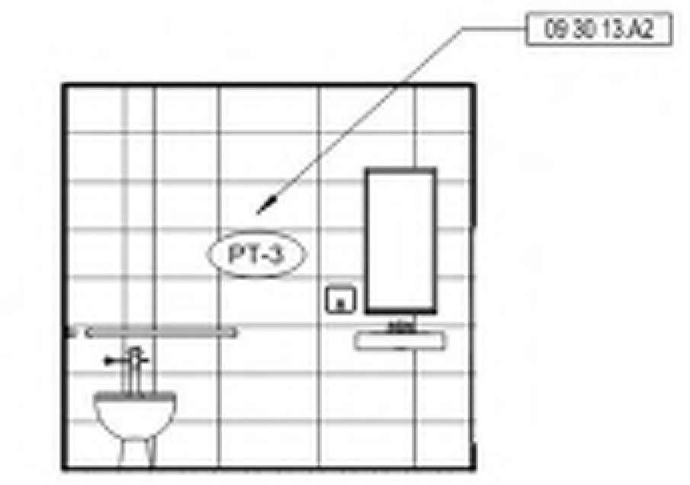


3 C14 FINISH - EAST
1/4" = 1'-0"



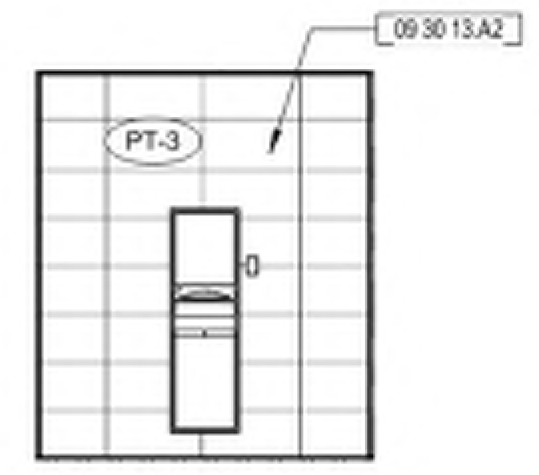
FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 7 / A-421

2 C14 FINISH - SOUTH
1/4" = 1'-0"

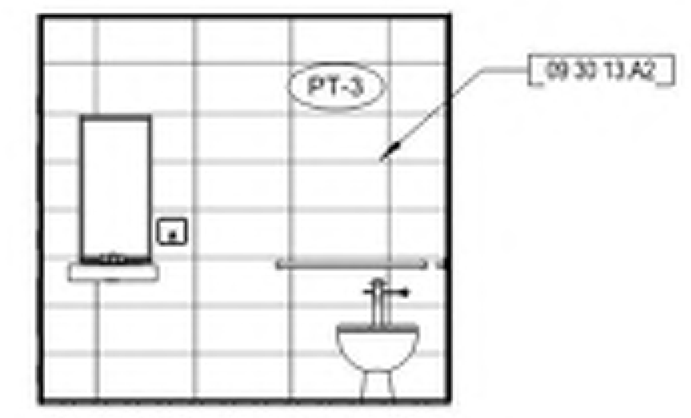


FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 10 / A-421

1 C14 FINISH - WEST
1/4" = 1'-0"

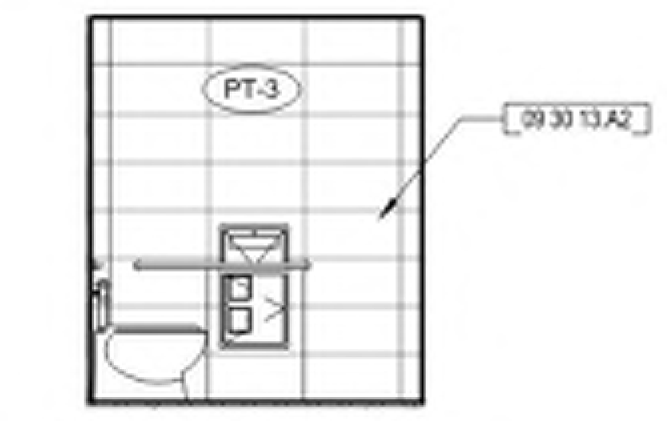


8 C15 FINISH - NORTH
1/4" = 1'-0"



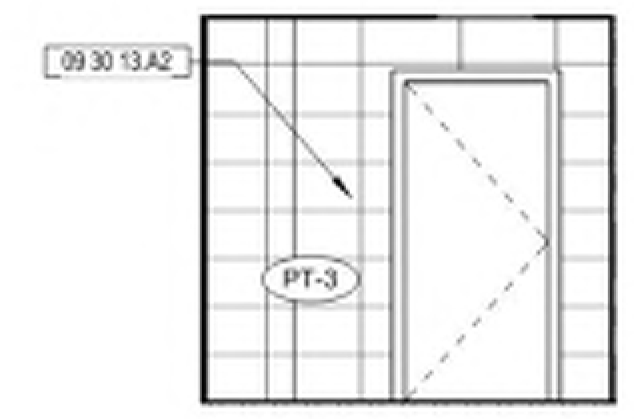
FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 12 / A-421

7 C15 FINISH - EAST
1/4" = 1'-0"

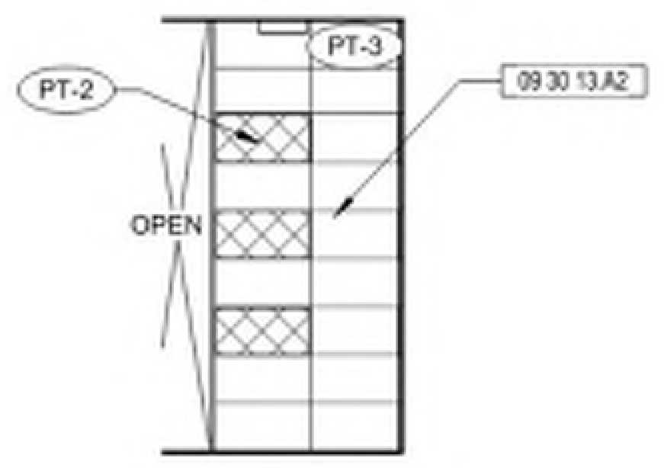


FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 11 / A-421

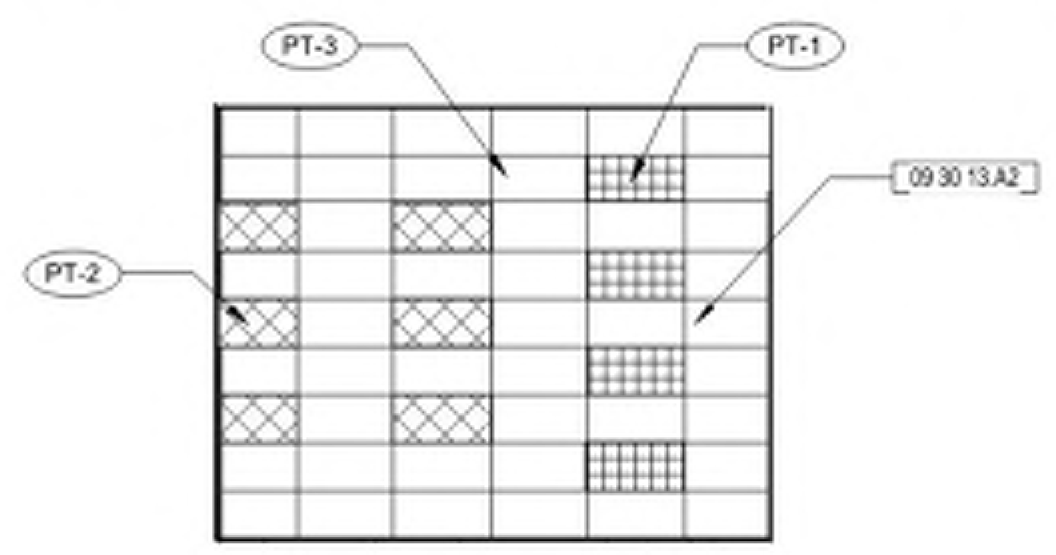
6 C15 FINISH - SOUTH
1/4" = 1'-0"



5 C15 FINISH - WEST
1/4" = 1'-0"



12 ENTRY C22 FINISH - SOUTH
1/4" = 1'-0"



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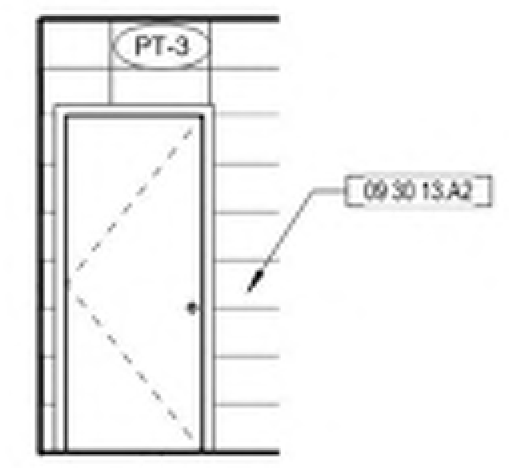
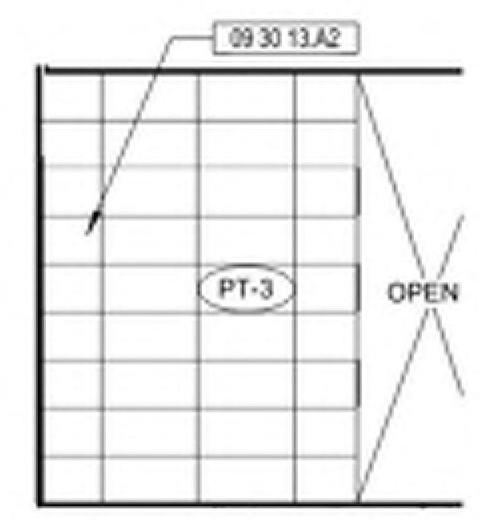
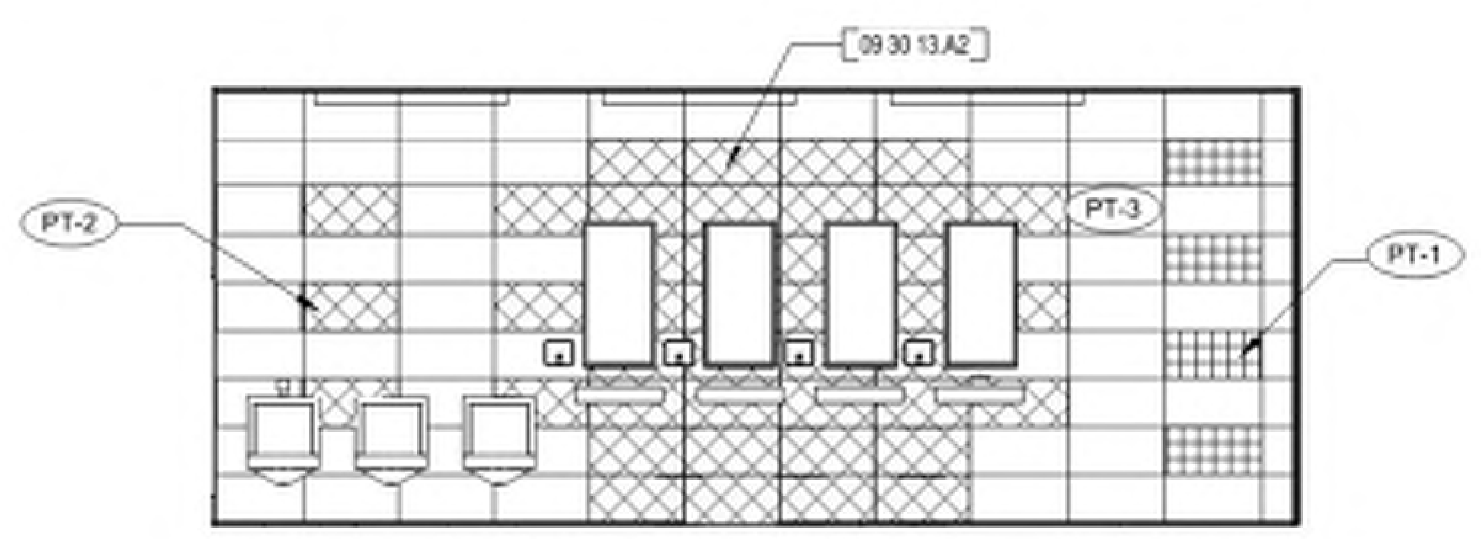
1/4" = 1'-0"



10 ENTRY C22 FINISH - NORTH
1/4" = 1'-0"

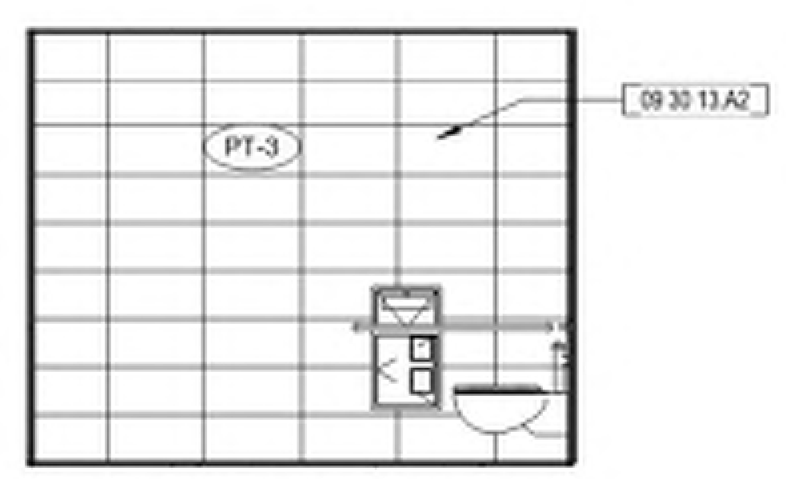


9 ENTRY C22 FINISH - EAST
1/4" = 1'-0"



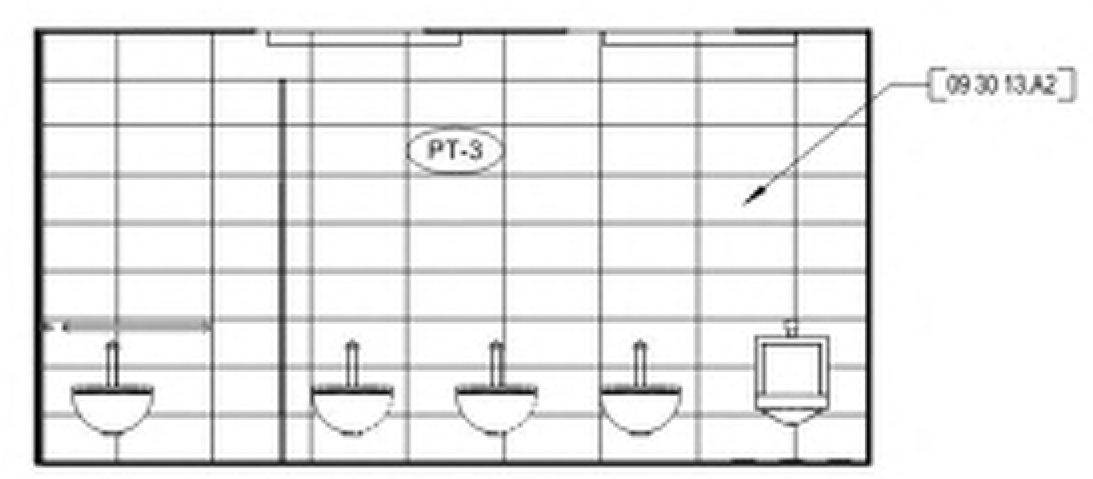
FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 5 / A-422

16 C22 FINISH - EAST
1/4" = 1'-0"



FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 8 / A-422

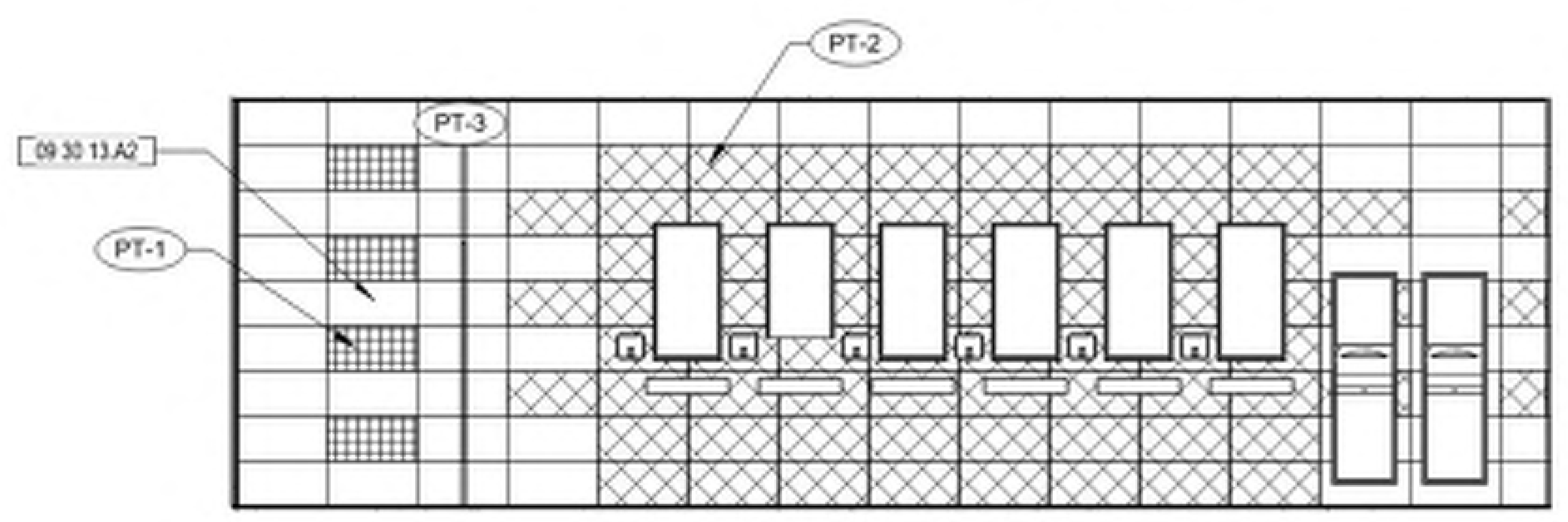
15 C22 FINISH - SOUTH
1/4" = 1'-0"



FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 7 / A-422

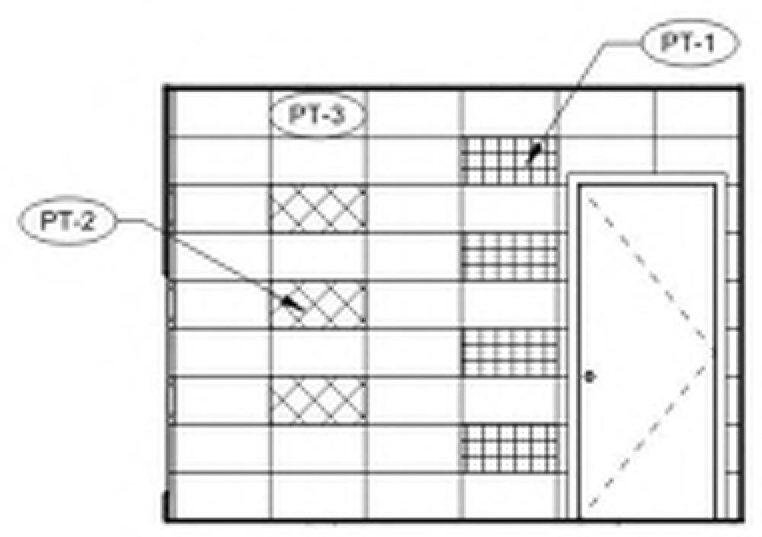
14 C22 FINISH - WEST
1/4" = 1'-0"

13 C22 FINISH - NORTH
1/4" = 1'-0"



FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 5 / A-423

20 C23 FINISH - EAST
1/4" = 1'-0"



19 ENTRY C23 FINISH - SOUTH
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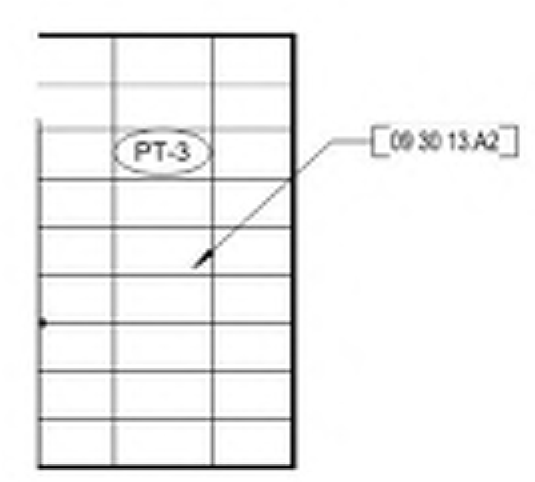
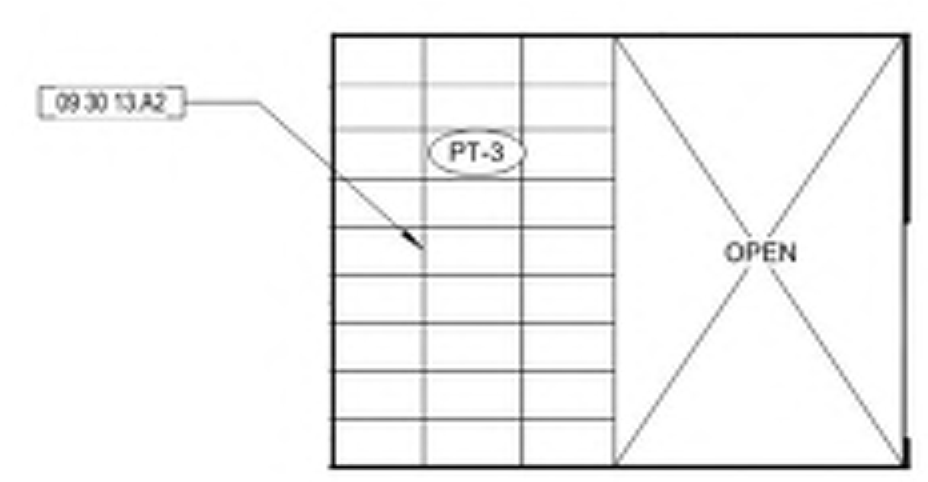
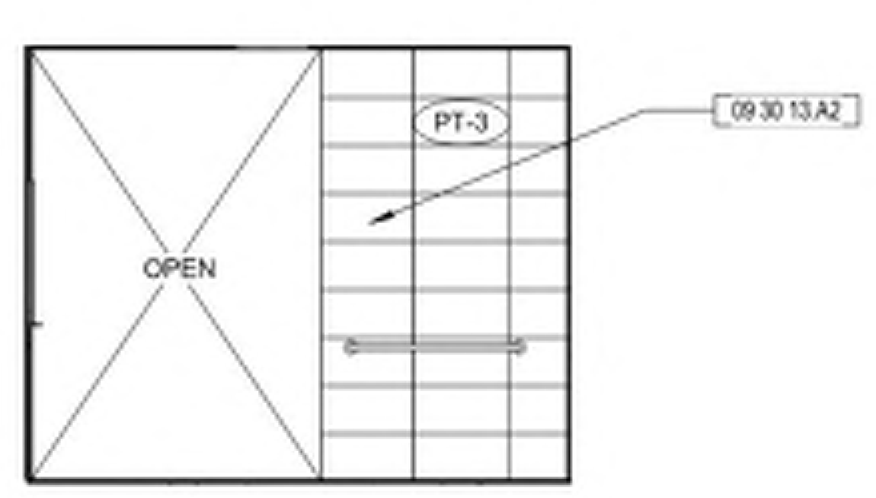


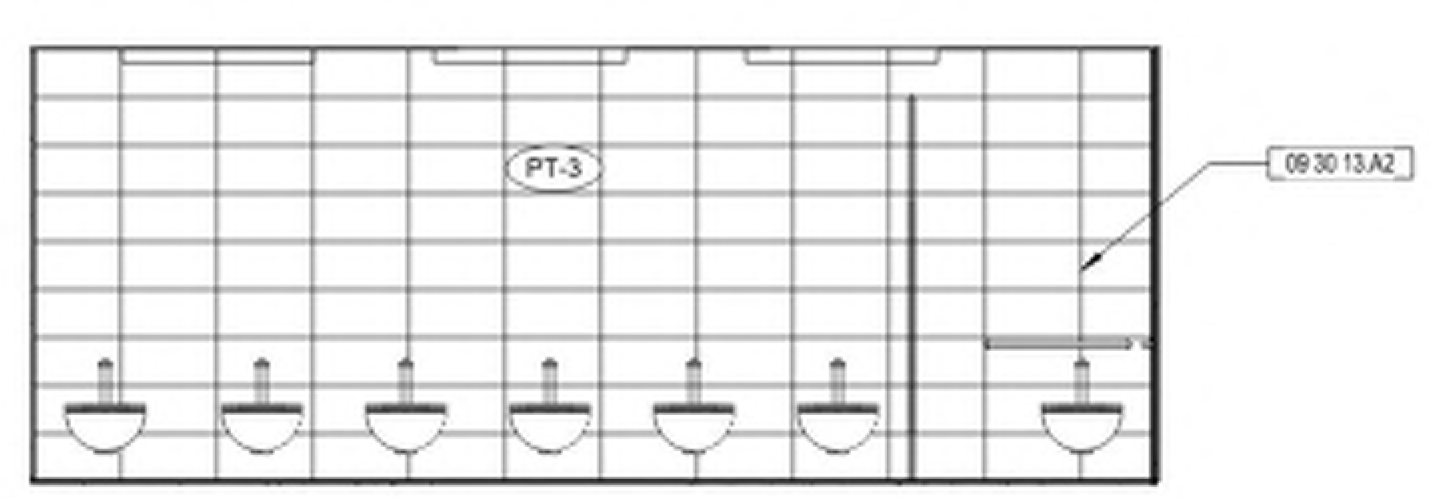
18 ENTRY C23 FINISH - WEST
1/4" = 1'-0"



17 ENTRY C23 FINISH - NORTH
1/4" = 1'-0"

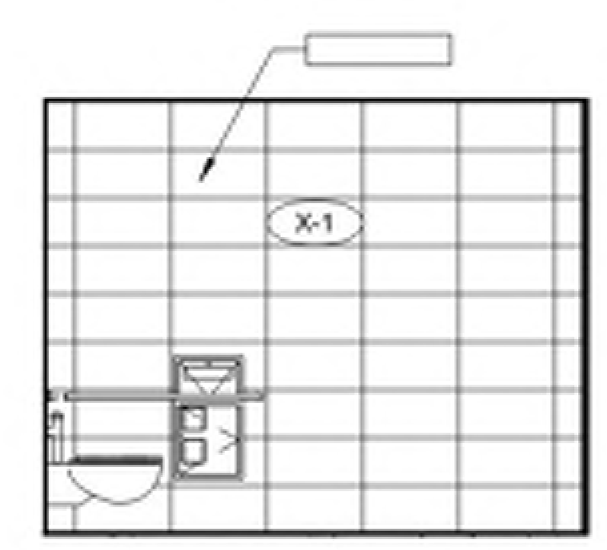


23 C23 FINISH - SOUTH
1/4" = 1'-0"



FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 7 / A-423

22 C23 FINISH - WEST
1/4" = 1'-0"



FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS REFER TO 6 / A-423

21 C23 FINISH - NORTH
1/4" = 1'-0"

9/27/2022 9:31:57 AM

GENERAL NOTES

1. DIMENTIONS FOR MIRRORED OR SYMETRICAL CONSTRUCTION MAY BE ILLUSTRATED AT ONE SIDE AND SHALL BE ASSUMED SIMILAR FOR THE OTHER.
2. KEYNOTES MAY BE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. SIMILAR CONSTRUCTION OR BUILDING ELEMENTS SHALL BE ASSUMED TO BE NOTED SIMILARLY. KEYNOTES APPLY TYPICALLY, U.O.N.

KEYNOTES

09 30 13.A2	PORCELAIN TILE SMARTSTEP TECHNOLOGY

LEGEND

ASHLAR PATTERN DIRECTION

X-1 FLOOR / WALL MATERIAL

FLOOR / WALL MATERIAL LIST

CPT - 1 -	INTERFACE, HARMONIZE: MESQUITE
CPT - 2 -	INTERFACE, ON-LINE: CANARY
CPT - 3 -	INTERFACE, ON-LINE: BERRY
LVT - 1 -	INTERFACE, STUDIO SET: SAND
LVT - 2 -	INTERFACE, STUDIO SET: PEPPER
PT - 1 -	DALTILE, PORTOLIO VIVID: CRIMSON RED
PT - 2 -	DALTILE, THEORETICAL BOLD: PRIMARY YELLOW
PT - 3 -	DALTIME, VOLUME 1.0, REVERB ASH
PT - 4 -	DALTIME, ASTRONOMY, SOLSTICE
SV - 1 -	INTERFACE, CONTINUAL GRAINS, SILVER OAK
P - 1 -	SHERWIN WILIAMS: ALABASTER SW7008
P - 2	

CARPET

CPT - 1
CPT - 2
CPT - 3

LUXURY VINYL TILE

LVT - 1
LVT - 2

PORCELAIN TILE

PT - 1
PT - 2
PT - 3 - WALL
PT - 4 - FLOOR

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT
AUDREY V. STRATTON
NO. C28089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

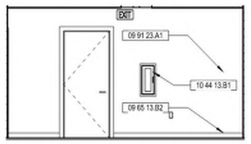
3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
_	04.29.2022	DSA SUBMITTAL
__	09.19.2022	DSA RESUBMITTAL

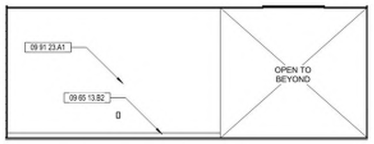
DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

INT FINISH ELEVS - BUILDING C

I-125



4 P101-1 - SOUTH B
1/4" = 1'-0"



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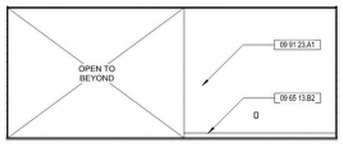
1/4" = 1'-0"



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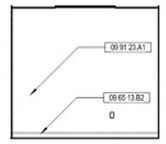

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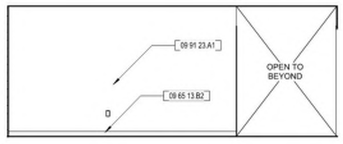
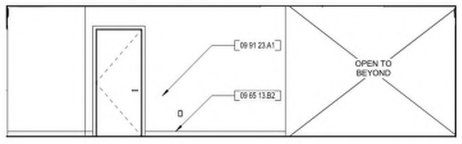


8 P101-1 - NORTH B
1/4" = 1'-0"



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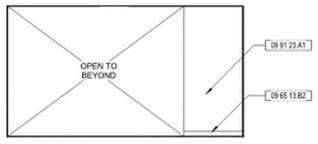
1/4" = 1'-0"



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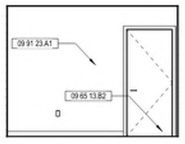
1/4" = 1'-0"



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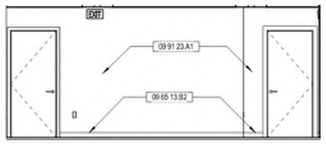
1/4" = 1'-0"



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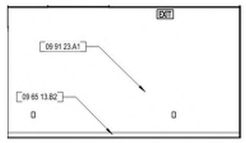
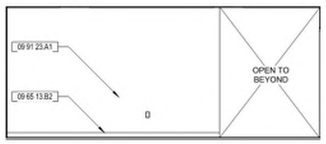
1/4" = 1'-0"



11 P101-1 - EAST
1/4" = 1'-0"



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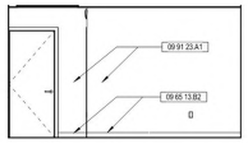
1/4" = 1'-0"



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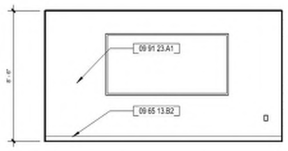
1/4" = 1'-0"



17 CONFERENCE P101-5 - WEST
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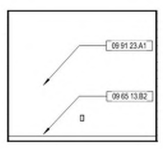

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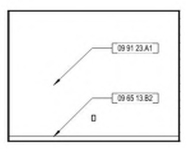
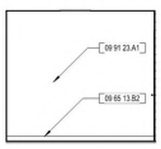
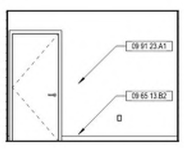
1/4" = 1'-0"



15 P101-2 - EAST
1/4" = 1'-0"



14 P101-2 - SOUTH
1/4" = 1'-0"



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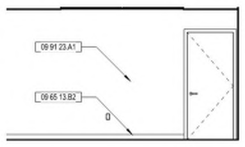
1/4" = 1'-0"



22 P101-6 - SOUTH
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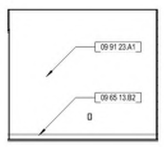

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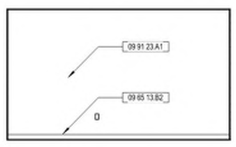

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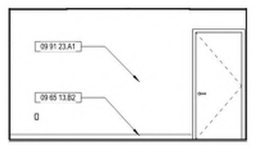

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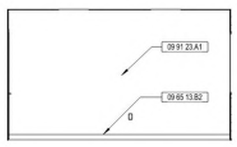

18 P101-5 - SOUTH
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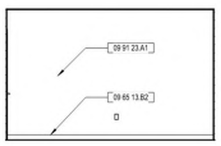
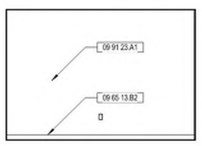


28 P101-7 - NORTH
1/4" = 1'-0"



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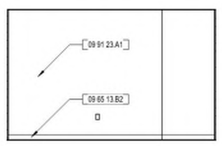

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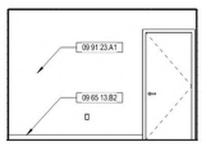
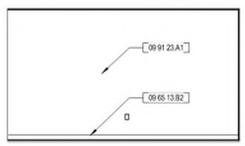
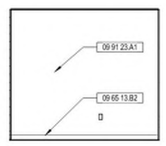
1/4" = 1'-0"



25 P101-7 - WEST
1/4" = 1'-0"



24 P101-6 - NORTH
1/4" = 1'-0"



23 P101-6 - EAST
1/4" = 1'-0"

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KEYNOTES

09 65 13.B2	4" RESILIENT TOPSET BASE
09 91 23.A1	INTERIOR PAINT - P-1, UNO
10 44 13.B1	SEMI-RECESSED FIRE EXTINGUISHER CABINET, REFER TO 6/A-903

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

LICENSED ARCHITECT
JAMES K. SCHMITZ
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

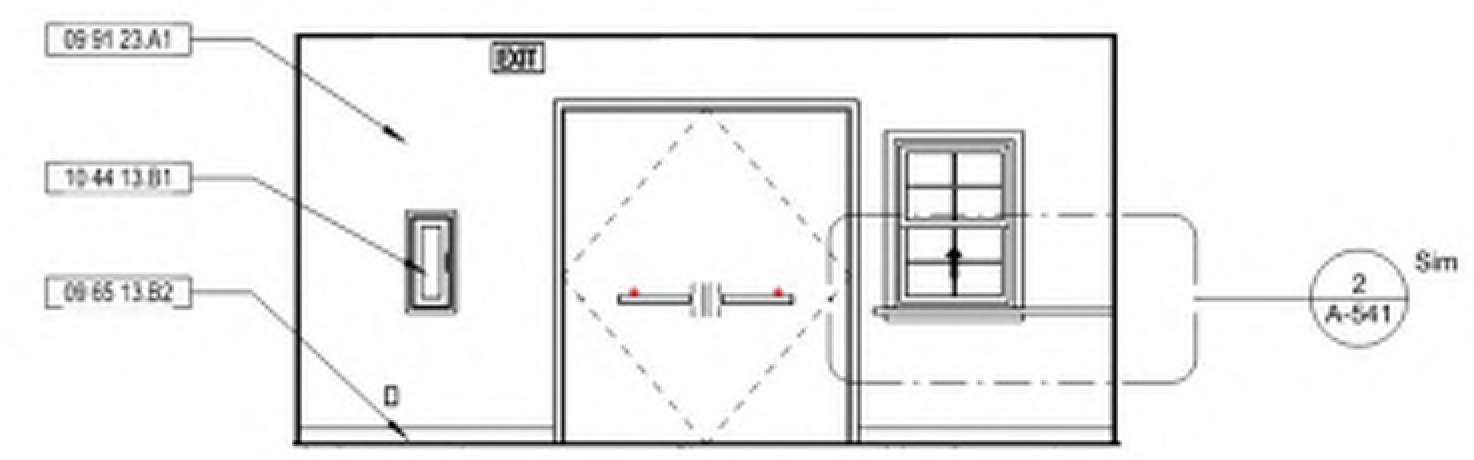
MARK	DATE	DESCRIPTION
-	04.29.2022	DSA SUBMITTAL
-	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	JP / MEP
CHECKED BY:	JM / AS

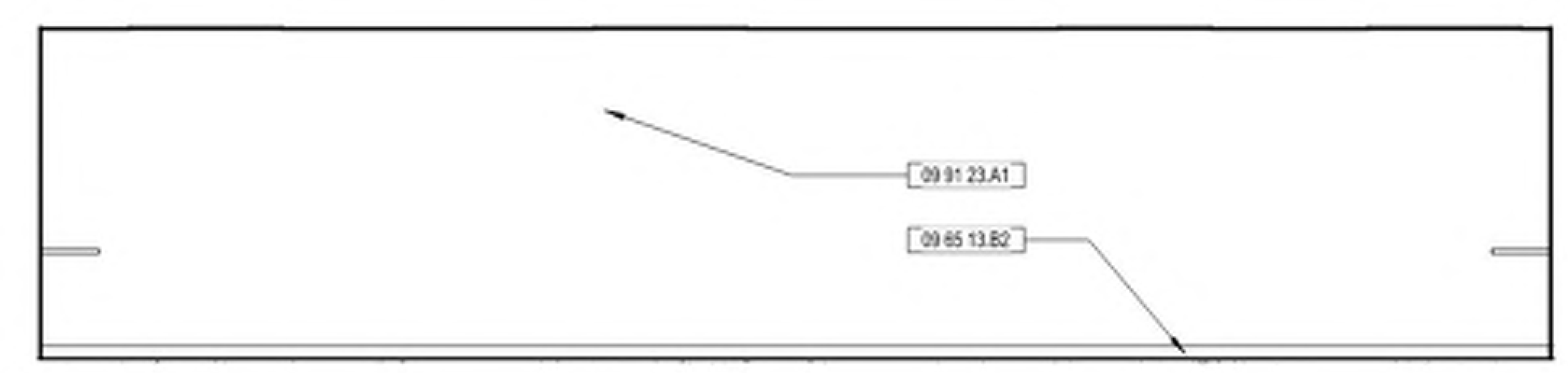
INT FINISH ELEVS - BUILDING P101

I-141

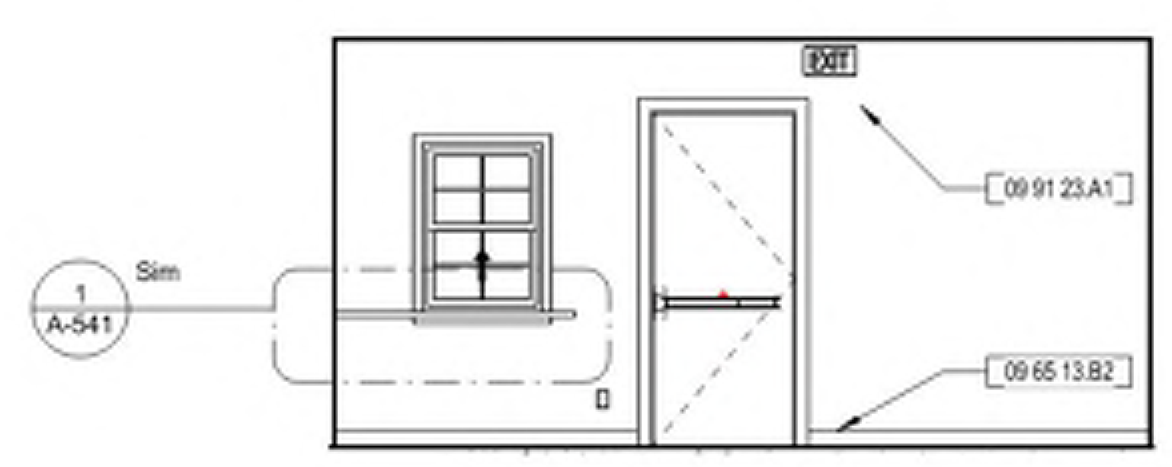
9/27/2022 9:32:24 AM



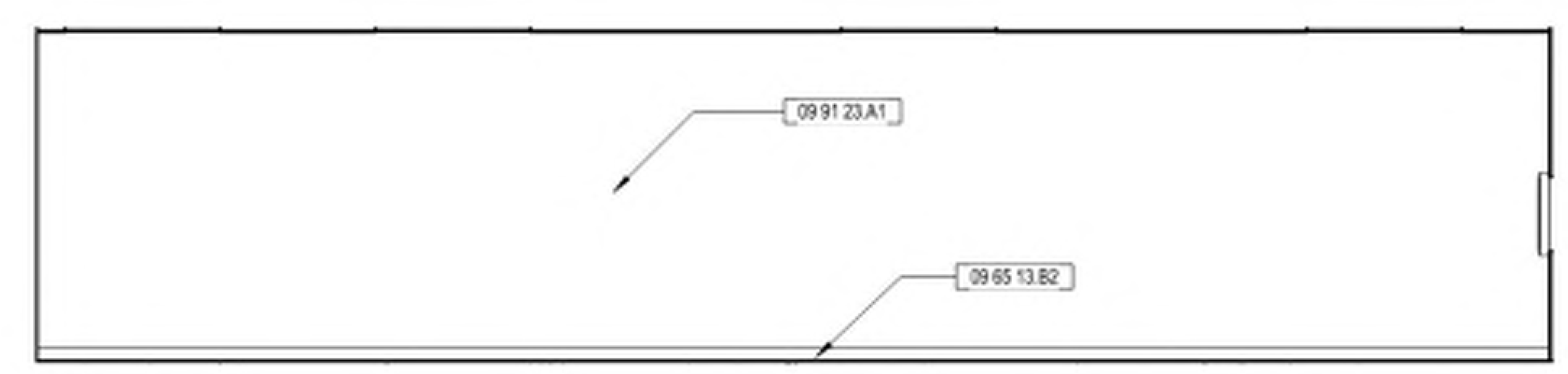
13 Z1 - SOUTH WALL
1/4" = 1'-0"



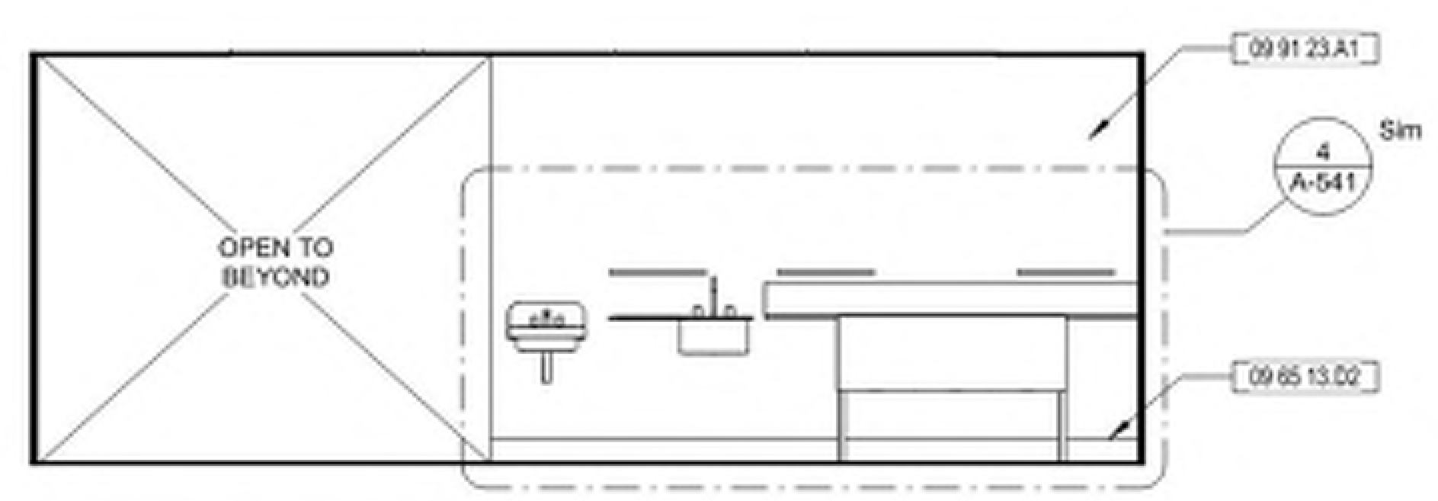
12 Z1 - WEST WALL
1/4" = 1'-0"



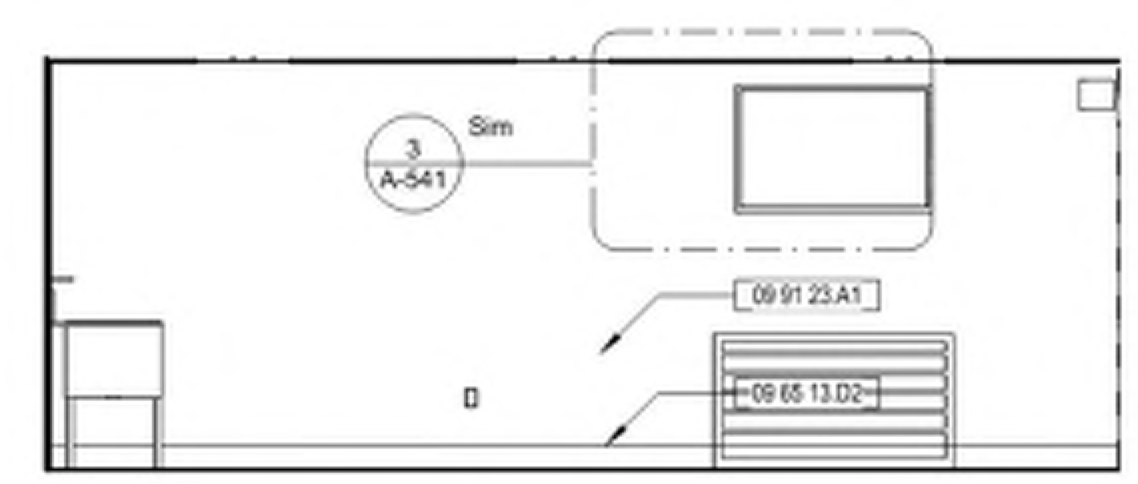
15 Z1 - NORTH WALL
1/4" = 1'-0"



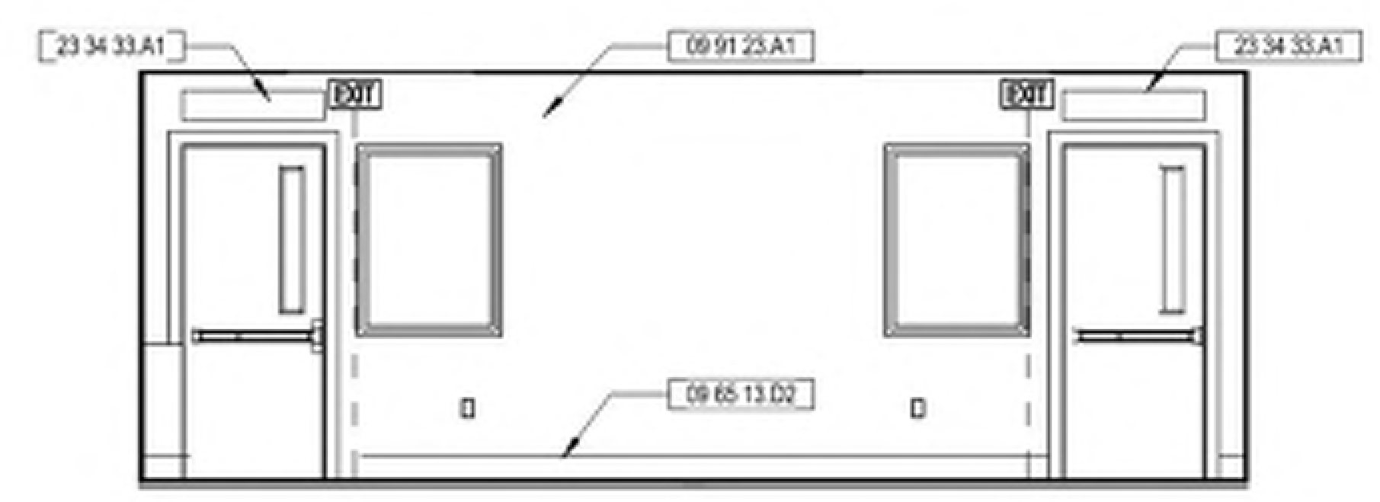
14 Z1 - EAST WALL
1/4" = 1'-0"



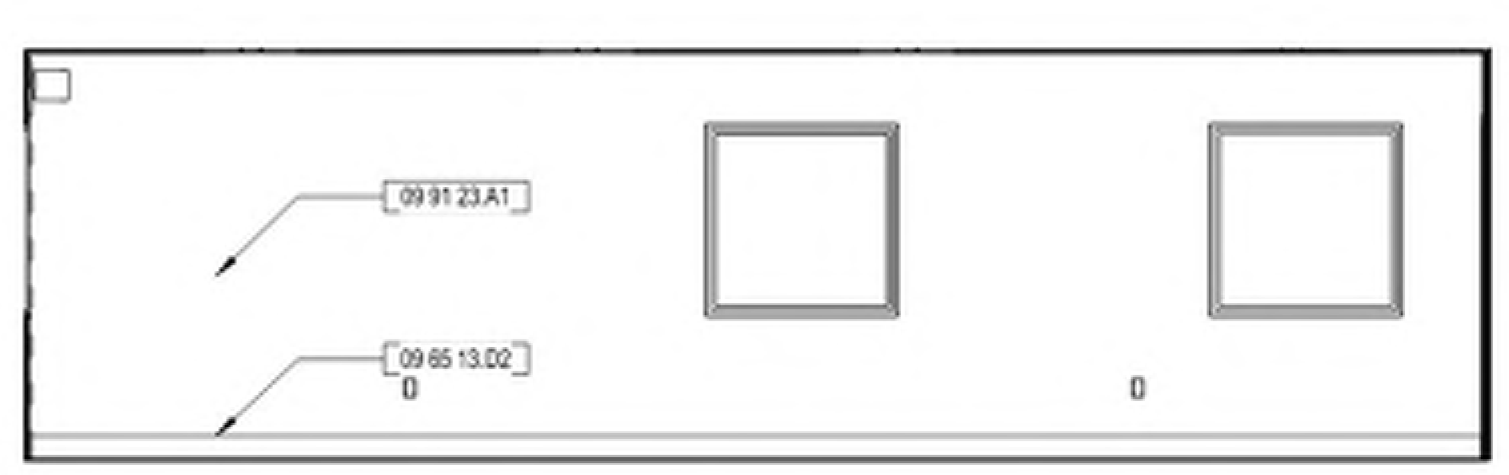
3 SERVING P104-2 FINISH - EAST
1/4" = 1'-0"



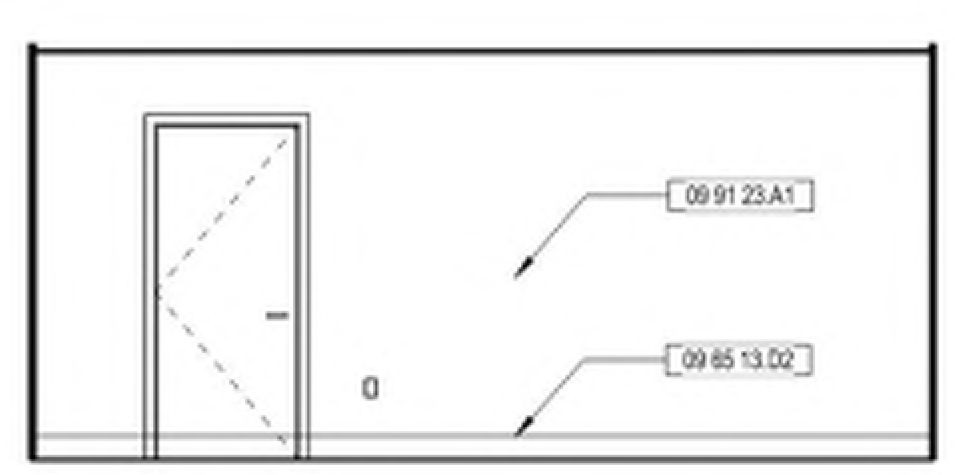
2 P104-1 & P104-2 - SOUTH
1/4" = 1'-0"



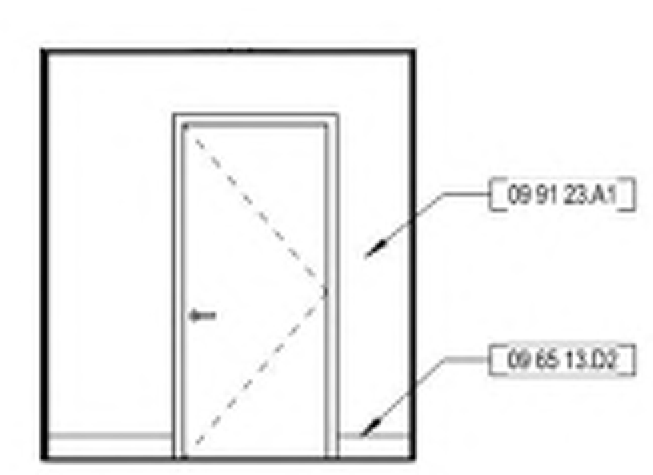
1 P104-1 FINISH - WEST
1/4" = 1'-0"



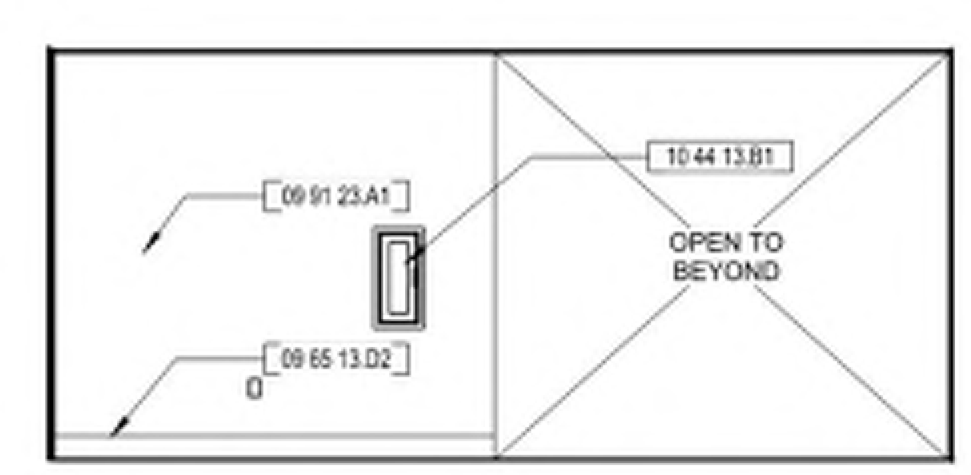
7 P104-1 & P104-2 - NORTH
1/4" = 1'-0"



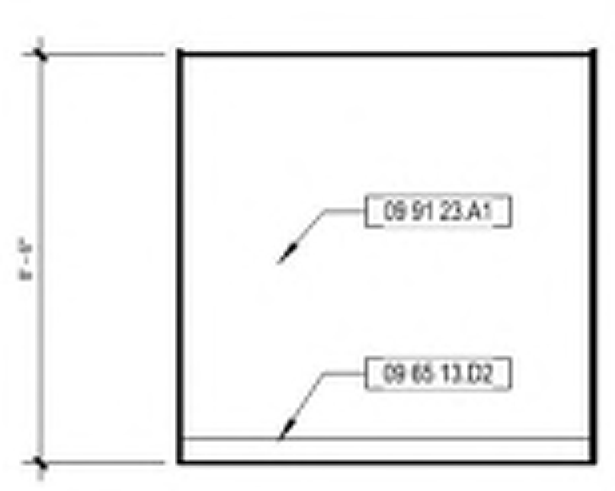
6 P104-2 BACK - EAST
1/4" = 1'-0"



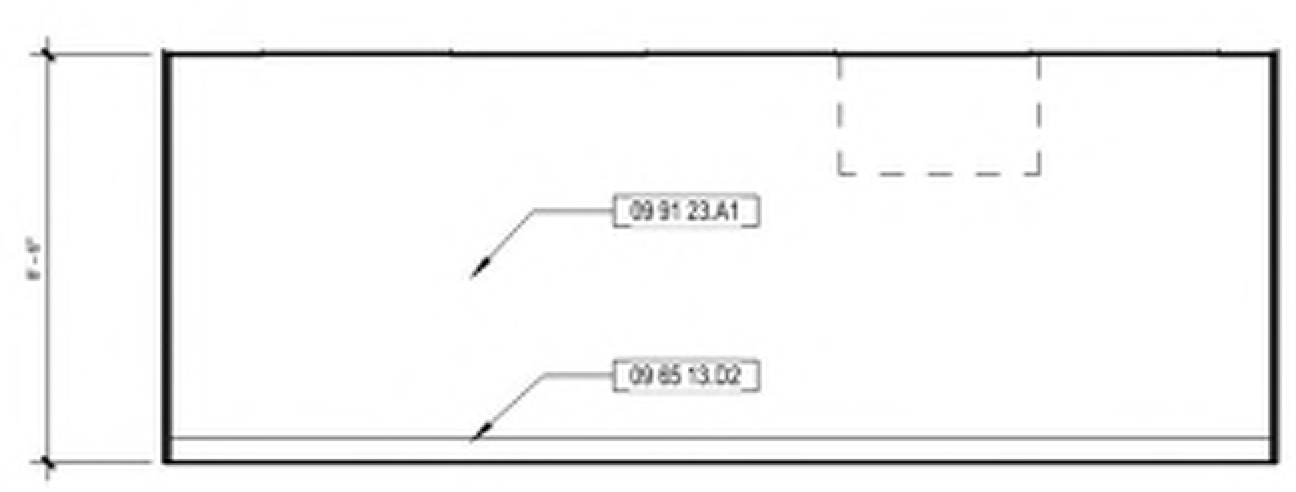
5 P104-2 BACK - SOUTH
1/4" = 1'-0"



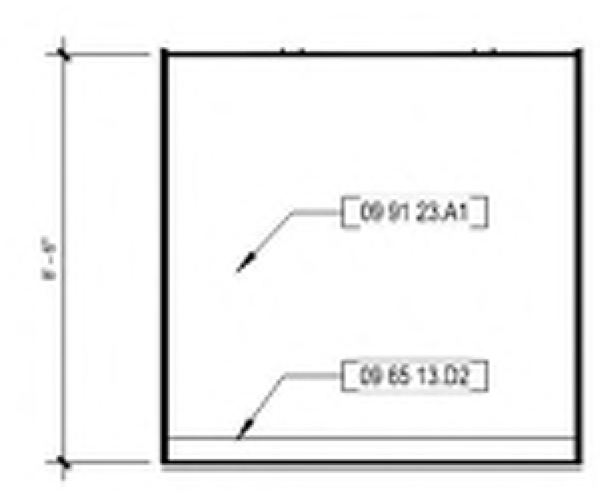
4 P104-2 BACK - WEST
1/4" = 1'-0"



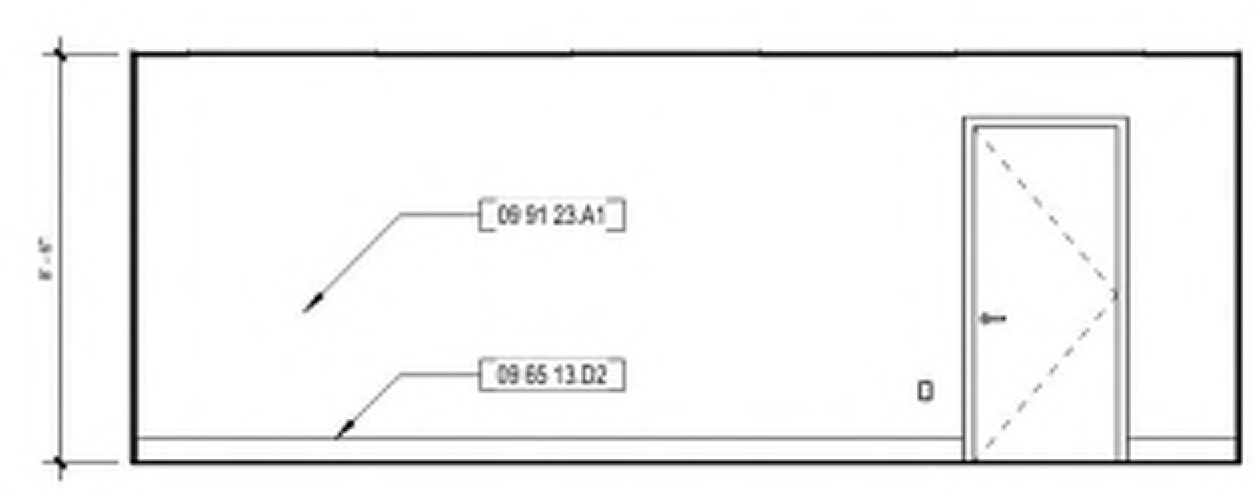
11 STORAGE P1-4-4 - NORTH
1/4" = 1'-0"



10 STORAGE P104-4 - EAST
1/4" = 1'-0"



9 STORAGE P104-4 - SOUTH
1/4" = 1'-0"



8 P104-4 - WEST
1/4" = 1'-0"

GENERAL NOTES

1. DIMENTIONS FOR MIRRORED OR SYMETRICAL CONSTRUCTION MAY BE ILLUSTRATED AT ONE SIDE AND SHALL BE ASSUMED SIMILAR FOR THE OTHER.
2. KEYNOTES MAY BE INDICATED AT ONLY A PORTION OF THE BUILDING ELEMENTS. SIMILAR CONSTRUCTION OR BUILDING ELEMENTS SHALL BE ASSUMED TO BE NOTED SIMILARLY. KEYNOTES APPLY TYPICALLY, U.O.N.

KEYNOTES

09 65 13.B2	4" RESILIENT TOPSET BASE
09 65 13.D2	6" VINYL BASE, COVE
09 91 23.A1	INTERIOR PAINT - P-1, UNO
10 44 13.B1	SEMI-RECESSED FIRE EXTINGUISHER CABINET, REFER TO 6/A-903
23 34 33.A1	DOOR AIR CURTAIN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: JP / MEP
CHECKED BY: JM / AS

INT FINISH ELEVS - BOOKROOM & BUILDING P104

I-171

9/27/2022 9:32:42 AM

SIGNAGE SCHEDULE

				SIGNAGE TYPE SEE SHEETS I-202 & I-203										
ROOM NO.	Name	COPY	BUILDING	ROOM (EXTERIOR)	ROOM (INTERIOR)	SIGN TYPE	ACCESS SYMBOL	EXIT (TYPE E1/E4)	EXIT ROUTE (TYPE E2)	EVACUATION MAP (TYPE E3)	RESTROOM SYMBOL	MAX. OCCUPANCY	ASSIST. LISTENING (TYPE R9)	NOTE
P101-6	OFFICE													
01 BUILDING C														
C01	SCIENCE CLASSROOM	ROOM C1 SCIENCE	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C02	SCIENCE CLASSROOM	ROOM C2 SCIENCE	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C03	CLASSROOM	ROOM C3	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C04	CLASSROOM	ROOM C4	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C05	CLASSROOM	ROOM C5	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C06	CLASSROOM	ROOM C6	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C07	CLASSROOM	ROOM C7	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C08	CLASSROOM	ROOM C8	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C09	CLASSROOM	ROOM C9	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C10	CLASSROOM	ROOM C10	01 BUILDING C	X	X	R1/E2/E3	X	E2	-	X	-	X	X	
C11	RECEPTION	OFFICE	01 BUILDING C	X	X	R1\E1	X	E1	-	-	-	-	-	
C12	STAFF WORKROOM	WORKROOM	01 BUILDING C	X	-	R1\E2	-	E2	-	-	-	-	-	
C13	PRINCIPAL OFFICE	PRINCIPAL	01 BUILDING C	X	-	R1/B4	-	-	-	-	-	-	-	
C14	STAFF TOILET ROOM	REST ROOM	01 BUILDING C	X	-	R3	X	-	-	-	X	-	-	
C15	STAFF TOILET ROOM	REST ROOM	01 BUILDING C	X	-	R3	X	-	-	-	X	-	-	
C16	SUPPLIES	SUPPLIES	01 BUILDING C	X	-	R1	-	-	-	-	-	-	-	
C17	A.V.	AUDIO / VISUAL	01 BUILDING C	X	-	R1	-	-	-	-	-	-	-	
C18A	SCIENCE CORRIDOR	SCIENCE HALL	01 BUILDING C	X	X	E1\B4		E1	X	X			-	
C18B	HUMANITIES CORRIDOR	HUNANITIES HALL	01 BUILDING C	X	X	E1\B4	-	E1	X	X	-	-	-	
C19	REMEDIAL	COUNCELING	01 BUILDING C	X	-	R1	-	-	-	-	-	-	X	
C20	CONFERENCE	CONFERENCE	01 BUILDING C	X	-	R1	-	-	-	-	-	-	X	
C21	JANITOR	CUSTODIAL	01 BUILDING C	X	-	R1	-	-	-	-	-	-	-	
C22	BOY'S TOILET ROOM	BOY'S	01 BUILDING C	X	-	R4	X	-	-	-	X	-	-	
C23	GIRL'S TOILET ROOM	GIRL'S	01 BUILDING C	X	-	R5	X	-	-	-	X	-	-	
02 P101														
P101-1	OPEN OFFICE	COUNCELING CENTER	02 P101	X	X	E1/B4	X	E1	X	-	-	-	-	
P101-2	OFFICE	COUNCELOR	02 P101	X	-	R1	-	-	-	-	-	-	-	
P101-3	TOILET ROOM	TOILET	02 P101	X	-	R3	-	-	-	-	X	-	-	
P101-4	TOILET ROOM	TOILET	02 P101	X	-	R3	X	-	-	-	X	-	-	
P101-5	CONFERENCE	CONFERENCE	02 P101	X	X	R1	-	E1	-	-	-	-	X	
P101-7	OFFICE	COUNCELOR	02 P101	X	-	R2	-	-	-	-	-	-	-	
03 P102														
P102-1	CLASSROOM	CLASSROOM P2	03 P102											
04 P104														
P104-1	LOUNGE	CAFETERIA	04 P104	X	X	B4/E1	X	E1	-	-	-	-	-	
P104-2	SERVING	SERVING	04 P104	X	X	R1	-	-	X	-	-	-	-	
P104-3	JANITOR	CUSTODIAL	04 P104	X	-	-	-	-	-	-	-	-	-	
P104-4	STORAGE	STORAGE	04 P104	X	X	R1/E2	-	-	-	X	-	-	-	
05 BUILDING BOOK ROOM														
Z1	BOOK ROOM	BOOK ROOM	05 BUILDING BOOK ROOM	X	X	E1/B4	X	E1	-	-	-	-	-	

SIGNAGE NOTES

SIGNAGE AND GRAPHICS:

RAISED CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.2:

1. DEPTH: IT SHALL BE 1/32-INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE AND BE DUPLICATED IN BRAILLE.

2. HEIGHT: IT SHALL BE 5/8-INCH (15.9 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC SECTION 11B-703.2.5

3. PROPORTIONS: IT SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 % MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTIONS 11B-703.2.6 AND 11B-703.2.6

4. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8-INCH (3.2 MM) MINIMUM OF 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16-INCH (1.6 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8-INCH (3.2) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8-INCH (9.5 MM) MINIMUM. 11B-703.2.7

5. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISE CHARACTER WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

6. FORMAL: TEXT SHALL BE IN A HORIZONTAL FORMAT. CBC SECTIONS 11B-103.2.9

7. FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTER SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. CBC SECTION 11B-703.5.1

8. BRAILLE: IT SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3 AND 11B-703.4. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE AND FIGURE 11B-703.3.1 (SEE DETAIL 11/A804)

9. BRAILLE POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8-INCH (9.5 MM) MINIMUM AND ½-INCH (12.7 MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8-INCH (9.5 MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS. 11B-703.3.2

10. MOUNTING HEIGHT: TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. CBC SECTION AND FIGURE 11B-703.4.1

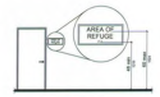


FIGURE 11B-703.4.1

FIGURE 11B-703.4.2

11. MOUNTING LOCATION: A TACTILE SIGN SHALL BE LOCATED PER CBC SECTION AND FIGURE 11B-703.4.2 AS FOLLOWS:

- **A.** ALONGSIDE A SINGLE DOOR AT THE LATCH SIDE.
- **B.** ON THE INACTIVE LEAF AT DOUBLE DOORS WITH ONE ACTIVE LEAF.
- **C.** TO THE RIGHT OF THE RIGHT-HAND DOOR AT DOUBLE DOORS WITH TWO ACTIVE LEAFS.
- **D.** ON THE NEAREST ADJACENT WALL WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS WITH TWO ACTIVE LEAFS.
- **E.** SO THAT A CLEAR FLOOR SPACE OF 18" X 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45-DEGREE OPEN POSITION.

VISUAL CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.5 AND SHALL BE 40" MINIMUM ABOVE FINISH FLOOR OR GROUND:

12. FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. CBC SECTION 11B-703.5.1

13. CASE: CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. CBC SECTION 11B-703.5.2

14. STYLE: CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. CBC SECTION 11B-703.5.3

15. CHARACTER PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IF 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". CBC SECTION 11 B-703.5.4

16. STROKE THICKNESS: STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTION 11B-703.5.7

17. CHARACTER HEIGHT: MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I". CBC SECTION 11B-703.5.5

18. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT. CBC SECTION 11B-703.5.9

19. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

20. FORMAT: TEXT SHALL BE IN A HORIZONTAL FORMAT. CBC SECTION 11B-703.2.9

21. PICTOGRAMS: SHALL COMPLY WITH CBC SECTION 11B-703.6.

SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH CBC SECTION 11B-703.7.

22. FINISH AND CONTRAST: SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND.
INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE COLOR BLUE, SHALL APPROXIMATE FS 15090 IN FEDERAL STANDARD 595C. 11B-703.7.2.1 (SEE DETAIL 2/A-016)

23. VARIABLE MESSAGE SIGNS SHALL COMPLY WITH CBC SECTION 11B-703.8.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY
ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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LICENSED ARCHITECT
AUBREY V. STRATTON
NO. C35089
REN. 05/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School District

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
91962

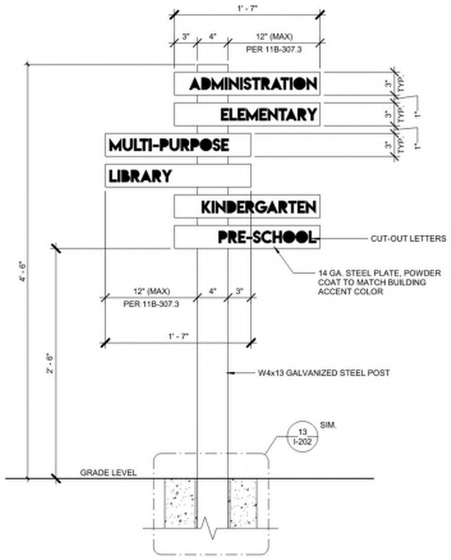
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP / WA
CHECKED BY: JM / AS

SIGNAGE
SCHEDULE

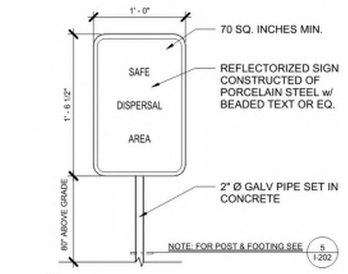
I-200

9/27/2022 9:32:45 AM



NOTES:
1. SIGNAGE WILL VARY PER LOCATION. FINAL DESIGN PER LOCATION TO BE APPROVED BY ARCHITECT.
2. EACH BUILDING SECTION TO MATCH BUILDING ACCENT COLOR APPROVED BY ARCHITECT.

12 S6 - EXTERIOR WAYFINDING POST
1 1/2" = 1'-0"



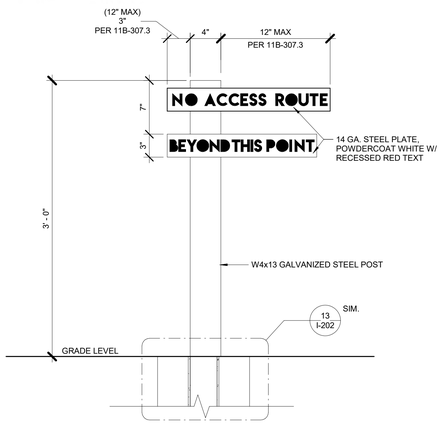
NOTE:

1. CONTRACTOR SHALL INCLUDE ALL SIGN INFORMATION AS A PERMANENT PART OF THE SIGN PRIOR TO INSTALLATION.

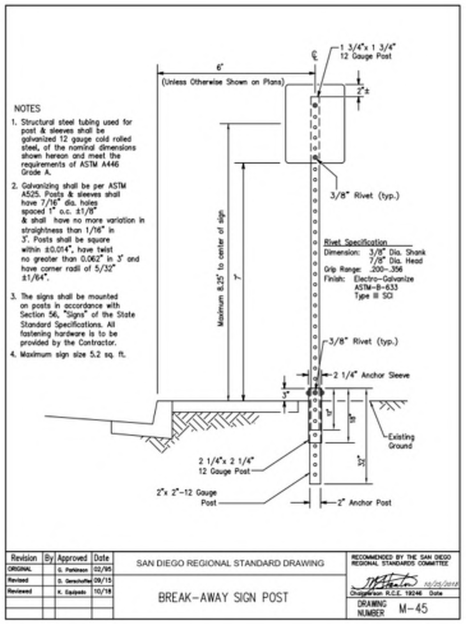
2. THIS SIGN SHALL COMPLY WITH CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, PART 2, SECTION 7102 - MIN. 1" LETTERS.

3. PERIODIC MAINTENANCE ON ALL SIGNS SHALL BE DONE TO ENSURE VISIBILITY.

14 S7 SAFE DISPERSAL AREA SIGN
1 1/2" = 1'-0"



15 S8 - EXTERIOR ADA/CBC NO EXIT ROUTE POST
1 1/2" = 1'-0"



NOTES
1. Structural steel tubing used for post & sleeves shall be galvanized 12 gauge cold rolled steel, of the nominal dimensions shown hereon and meet the requirements of ASTM A446 Grade A.
2. Galvanizing shall be per ASTM A525. Posts & sleeves shall have 7/16" dia. holes spaced 1" o.c. ±1/8" & shall have no more variation in straightness than 1/16" in 3'. Posts shall be square within ±0.014", have twist no greater than 0.062" in 3' and have corner radii of 5/32" ±1/64".
3. The signs shall be mounted on posts in accordance with Section 56, "Signs" of the State Standard Specifications. All fastening hardware is to be provided by the Contractor.
4. Maximum sign size 5.2 sq. ft.

Revision	By	Approved	Date
ORIGINAL		S. Parkinson	02/95
Revised		D. Gerschaffer	09/15
Reviewed		K. Salgado	10/18

SAN DIEGO REGIONAL STANDARD DRAWING

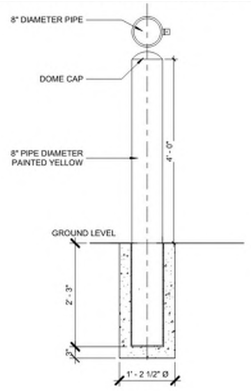
BREAK-AWAY SIGN POST

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Chairperson R.C.E. 19246 Date

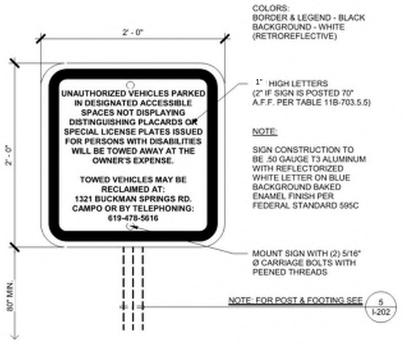
DRAWING NUMBER M-45

10 BREAK-AWAY SIGN POST
N.T.S.

11 S5 - EXTERIOR ADA/CBC EXIT ROUTE POST
1 1/2" = 1'-0"



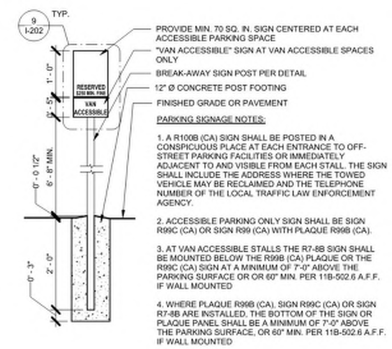
13 SITE BOLLARD
3/4" = 1'-0"



6 TOW AWAY SIGN (ENLARGED)
1 1/2" = 1'-0"

NOTE: 2" HIEGHT MIN ALL TEXT

7 S3 PASSENGER LOADING SIGN
1 1/2" = 1'-0"



PARKING SIGNAGE NOTES:

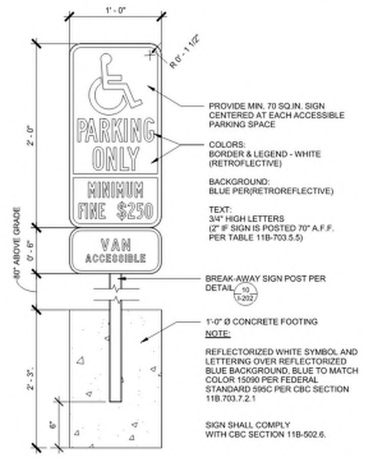
1. A R100B (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.

2. ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R99C (CA) OR SIGN R99 (CA) WITH PLAQUE R99B (CA).

3. AT VAN ACCESSIBLE STALLS THE R7-8B SIGN SHALL BE MOUNTED BELOW THE R99B (CA) PLAQUE OR THE R99C (CA) SIGN AT A MINIMUM OF 7'-0" ABOVE THE PARKING SURFACE OR OR 60" MIN. PER 11B-502.6 A.F.F. IF WALL MOUNTED

4. WHERE PLAQUE R99B (CA), SIGN R99C (CA) OR SIGN R7-8B ARE INSTALLED, THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE PARKING SURFACE, OR 60" MIN. PER 11B-502.6 A.F.F. IF WALL MOUNTED

8 S4 ACCESSIBILE PARKING ONLY SIGN
N.T.S.



9 S4 ACCESSIBLE PARKING SIGNAGE
N.T.S.

Table 11B-703.3.1 Braille Dimensions

Measurement Range	Minimum in Inches Maximum in Inches
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell[1]	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1]	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1]	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.

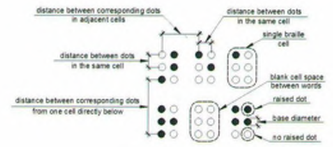


Figure 11B-703.3.1
Braille Measurement

BRAILLE POSITIONING
BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE SEPARATED 3/8" (9.5mm) MINIMUM AND 1/2" (12.7mm) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8" (9.5mm) MINIMUM FROM RAISED BOARDERS AND DECORATIVE ELEMENTS.

1 BRAILLE STANDARD
3" = 1'-0"

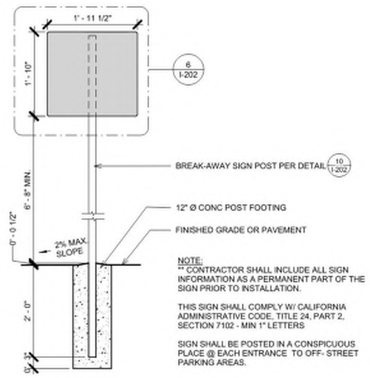
NOTE:

1. OWNERS AND/OR PROPERTY REPRESENTATIVES SHALL POST THE ENTRANCE TO THE REQUIRED ROADWAY WITH THE APPROVED SIGN. SIGNS SHALL THEN BE PLACED EVERY 100' FACING TRAFFIC AT A HEIGHT OF 7'. PLACEMENT VARIATIONS AND ALTERNATIVE SIGN DESIGNS SHALL BE SUBJECT TO WRITTEN APPROVAL BY THE FIRE MARSHALL HAVING JURISDICTION.

2. ALL CURBING WHICH OUTLINES THE ACCESS ROADWAY SHALL BE PAINTED RED. WHITE 4" HIGH LETTERING READING " NO PARKING - FIRE LANE" SHALL BE STENCILED EVERY 30' ON THE RED CURB. IF NO CURB IS PRESENT AN 8" WIDE RED STRIPE SHALL BE PAINTED ON THE PAVEMENT. THIS 8" STRIPE SHALL BE MARKED WITH 4" LETTERING EXACTLY AS IF IT WER A CURB.

3. PERIODIC MAINTENANCE ON ALL SIGNS, RED CURBING, AND WHITE LETTERING SHALL BE DONE TO ENSURE VISIBILITY.

4 S1 FIRE LANE SIGN
1 1/2" = 1'-0"



NOTE:
** CONTRACTOR SHALL INCLUDE ALL SIGN INFORMATION AS A PERMANENT PART OF THE SIGN PRIOR TO INSTALLATION.

THIS SIGN SHALL COMPLY W/ CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, PART 2, SECTION 7102 - MIN 1" LETTERS

SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE @ EACH ENTRANCE TO OFF- STREET PARKING AREAS.

5 S2 TOW-AWAY SIGN
3/4" = 1'-0"

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1053 TENTH AVENUE
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PHONE 619.238.3811
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LICENSED ARCHITECT
AUBREY V. STRATTON
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

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3305 Buckman Springs Rd, Pine Valley, CA 91962

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	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP
CHECKED BY:	JM / AS

SIGNAGE TYPES

I-202

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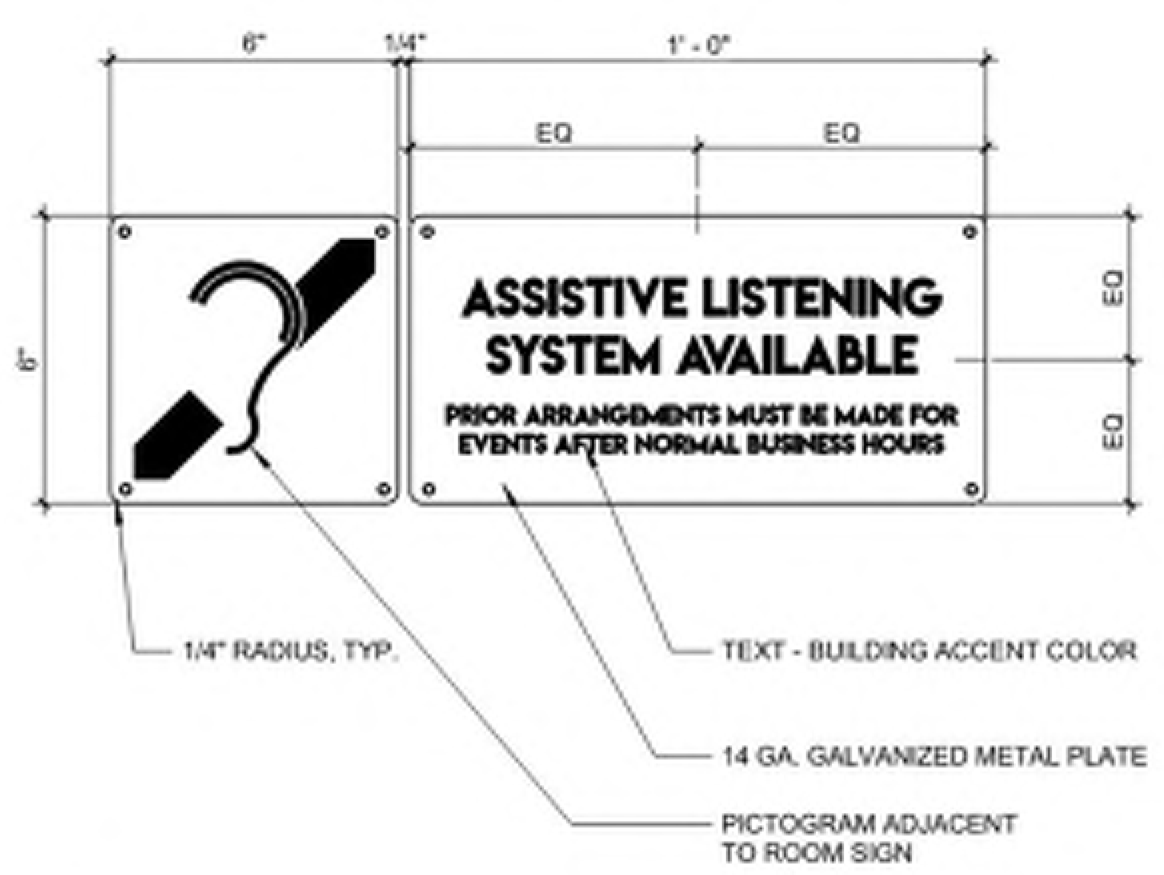
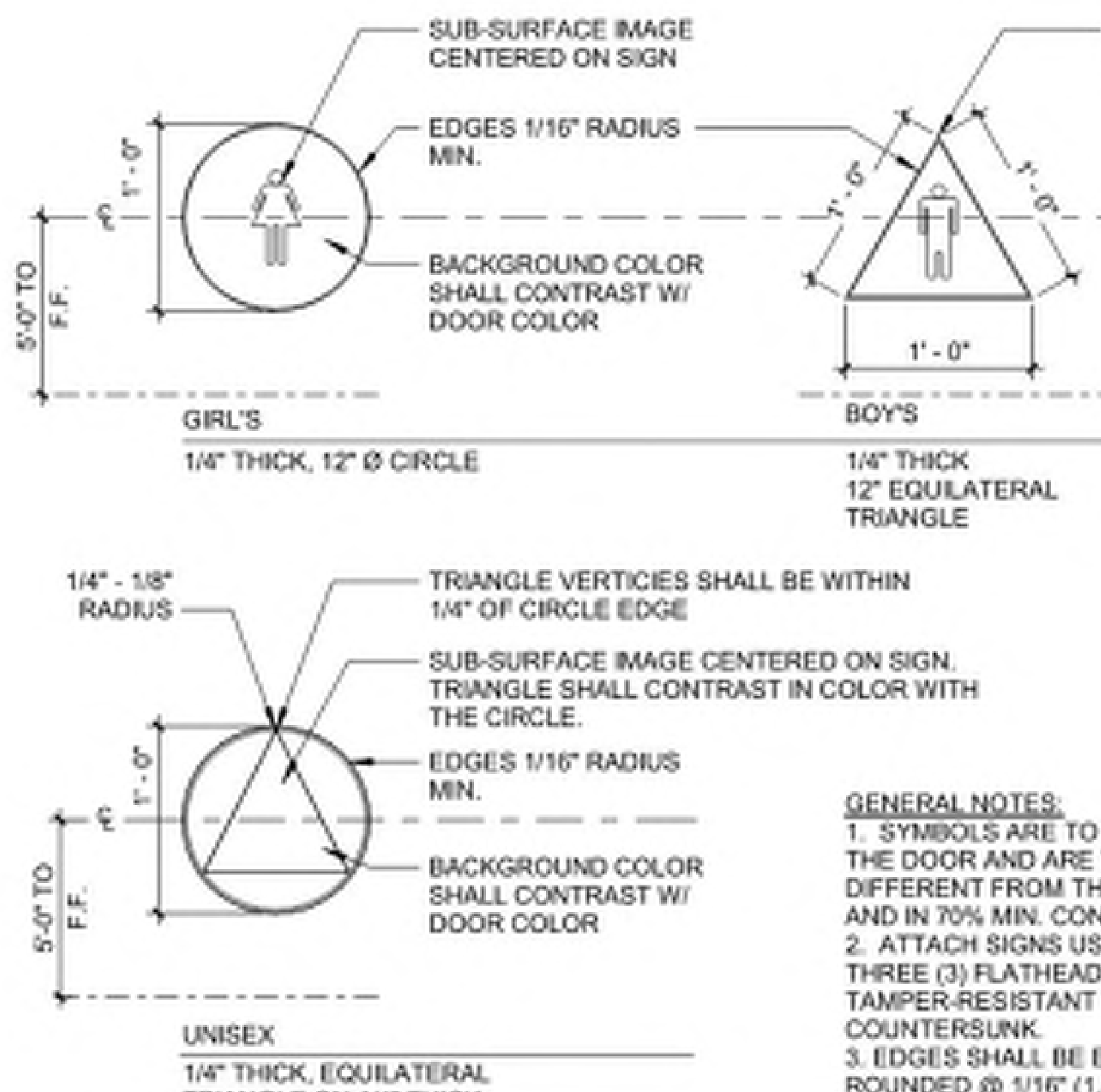


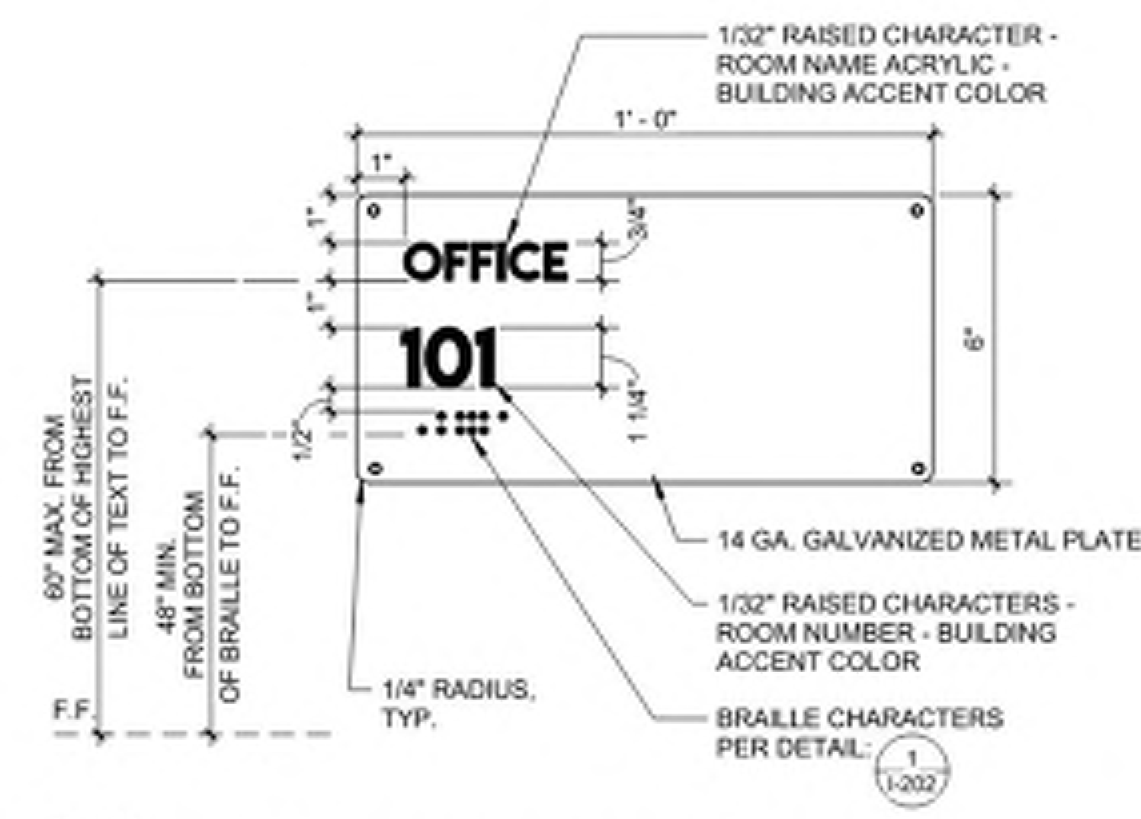
NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200
2. PICTOGRAM IMAGE TO CONFORM TO FIGURE 11B-703.6.1.
3. ASSISTIVE LISTENING SYSTEMS SIGN PROPORTIONS SHALL CONFORM TO FIGURE 11B-703.7.2.4.

11 R9 - ASSISTIVE LISTENING
3" = 1'-0"



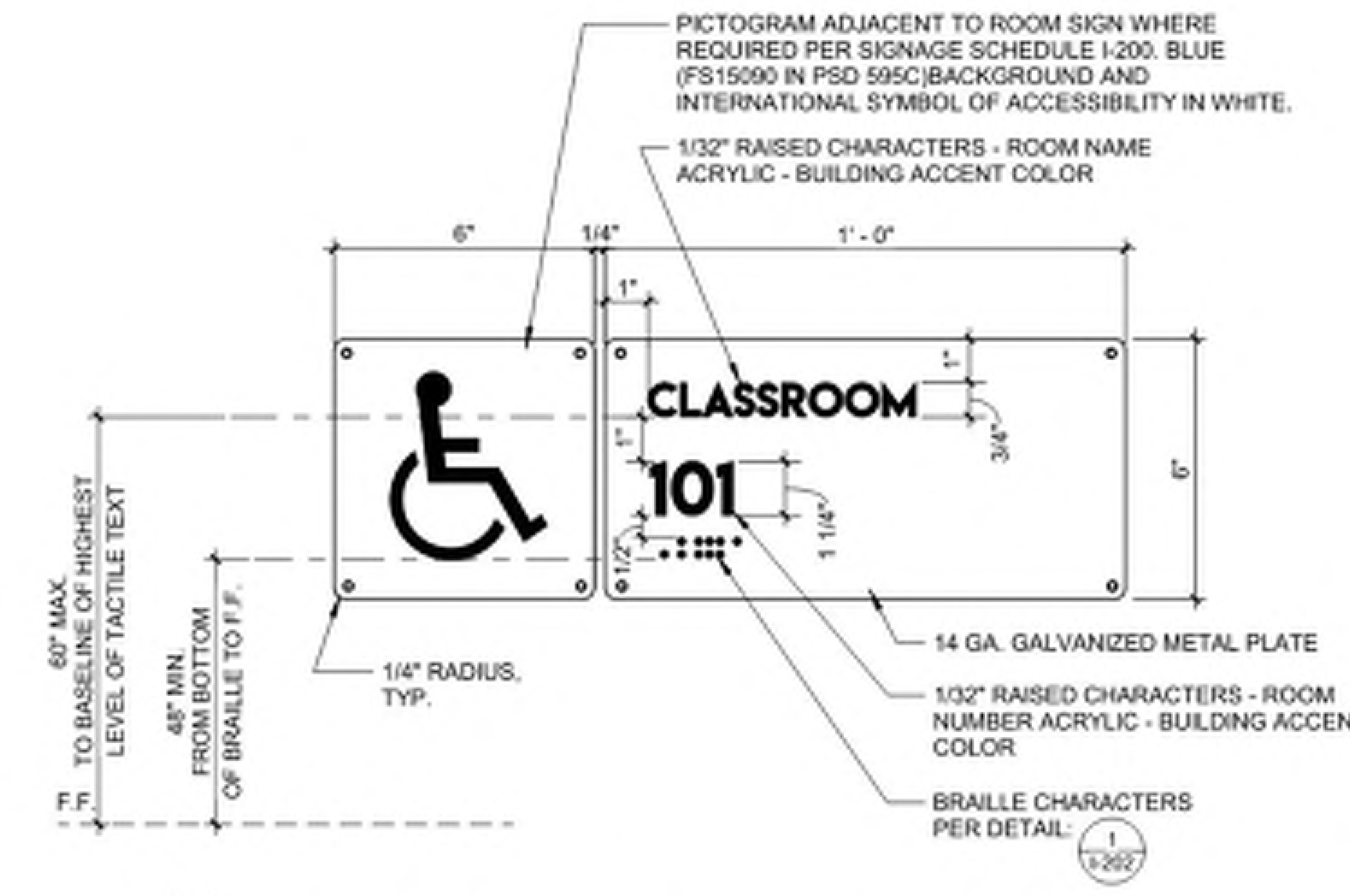
GENERAL NOTES:
1. SYMBOLS ARE TO BE CENTERED ON THE DOOR AND ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND IN 70% MIN. CONTRAST.
2. ATTACH SIGNS USING ADHESIVE AND THREE (3) FLATHEAD CHROME, TAMPER-RESISTANT WOOD SCREWS, COUNTERSUNK.
3. EDGES SHALL BE EASED OR ROUNDED @ 1/16" (1.59mm) MINIMUM, OR CHAMFERED @ 1/8" (3.2mm) MAXIMUM. VERTICES SHALL BE RADIUSED BETWEEN 1/8" (3.2mm) MINIMUM AND 1/4" (6.4mm) MAXIMUM.

8 ACCESSIBLE RESTROOM SIGNAGE DETAIL
1" = 1'-0"



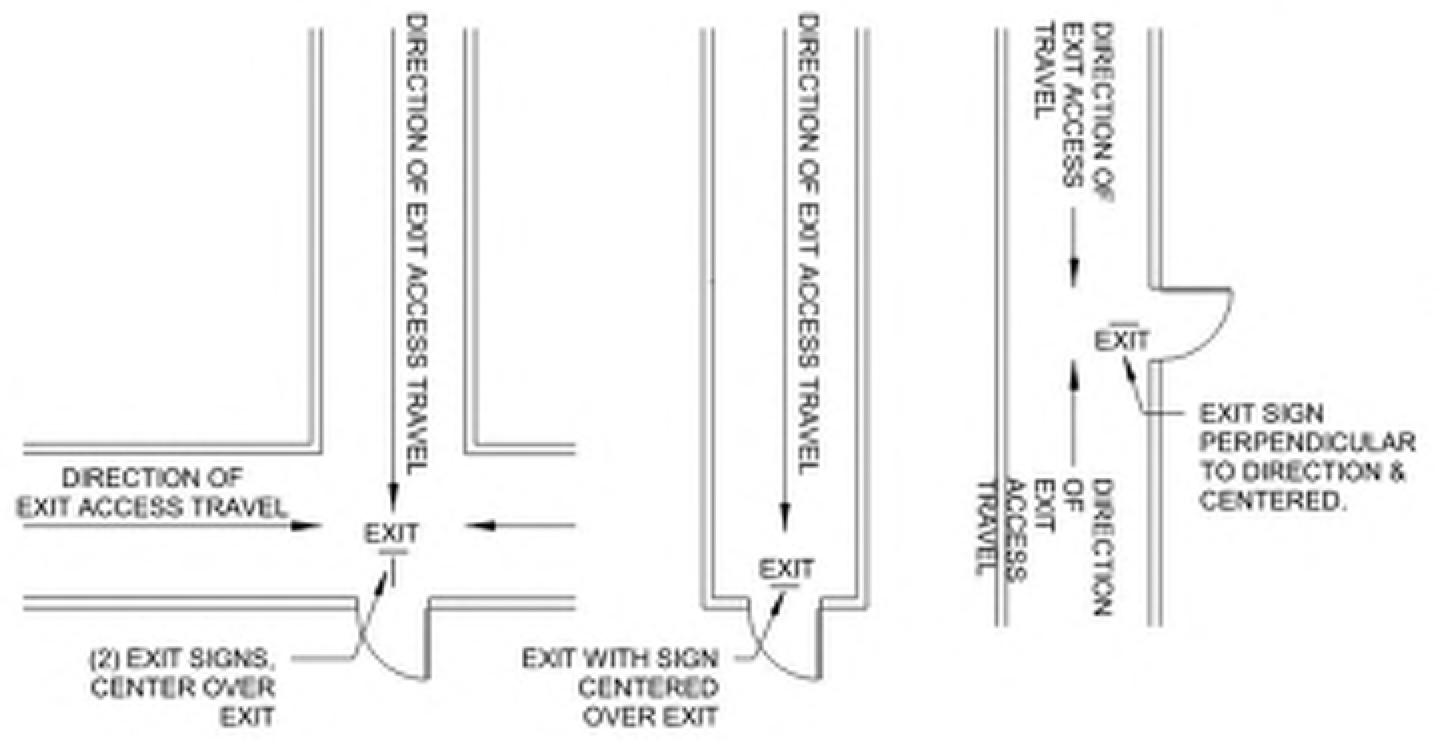
NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200
2. CHARACTER AND SYMBOLS IDENTIFYING PERMANENT ROOMS SHALL HAVE RAISED LETTERS 1/32" ABOVE THEIR BACKGROUND.

5 R1 - INTERIOR ROOM SIGNAGE
3" = 1'-0"



NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200
2. CHARACTERS AND SYMBOLS IDENTIFYING PERMANENT ROOMS SHALL HAVE RAISED LETTERS 1/32" ABOVE THEIR BACKGROUND.
3. PROVIDE ACCESSIBLE ENTRY SIGNAGE AT ALL EXTERIOR ENTRY DOORS.
4. PROVIDE ACCESSIBLE ROOM SIGNAGE AT ALL ACCESSIBLE ROOMS.

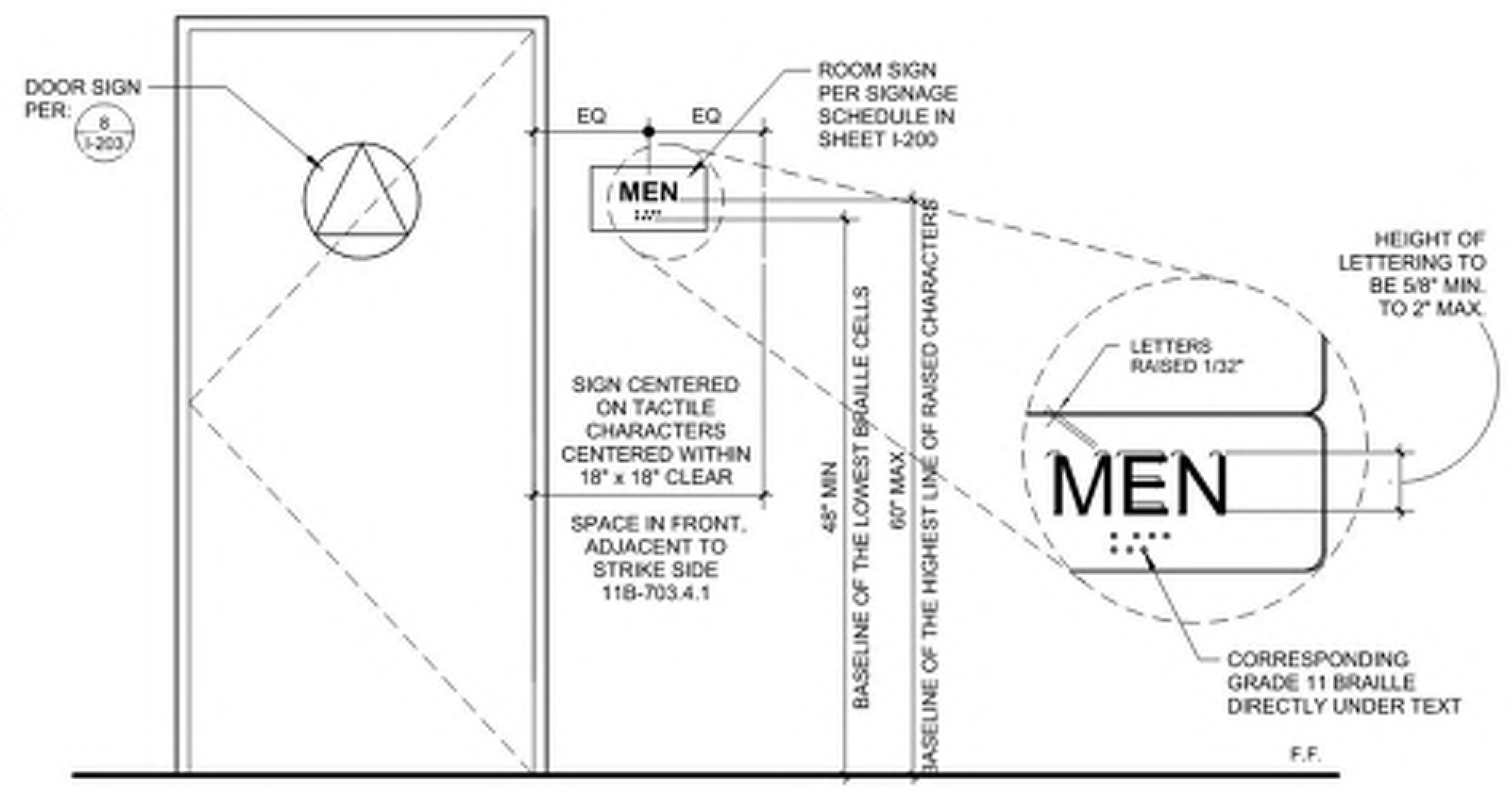
1 B4 - EXTERIOR ROOM SIGNAGE
3" = 1'-0"



EXIT SIGN NOTES

1. PROVIDE SIGNAGE ARROWS ON ALL FACES OF SIGNS POINTING TOWARDS THE INDICATED EXIT.
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED ALONG THE PATH OF EXIT TRAVEL WITHIN THE MEANS OF EGRESS SYSTEM.
3. EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF APPROACH.
4. EXIT SIGNS SHALL BE LOCATED TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL.
5. NO POINT SHALL BE MORE THAN 100 FEET FROM THE NEAREST VISIBLE EXIT SIGN.
6. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL POWER SYSTEM, OR AN APPROVED SELF LUMINOUS SYSTEM THAT PROVIDES CONTINUOUS ILLUMINATION INDEPENDENT OF THE EXTERNAL POWER SOURCE, TO ENSURE THAT THE EXIT SIGNS ARE ILLUMINATED AT ALL TIMES.
7. EXIT SIGNS SHALL COMPLY WITH CBC 1013.1 AND 1013.5.
8. COORDINATE WITH ELECTRICAL WORK FOR EXACT SIGN TYPES AND ADDITIONAL REQUIREMENTS.

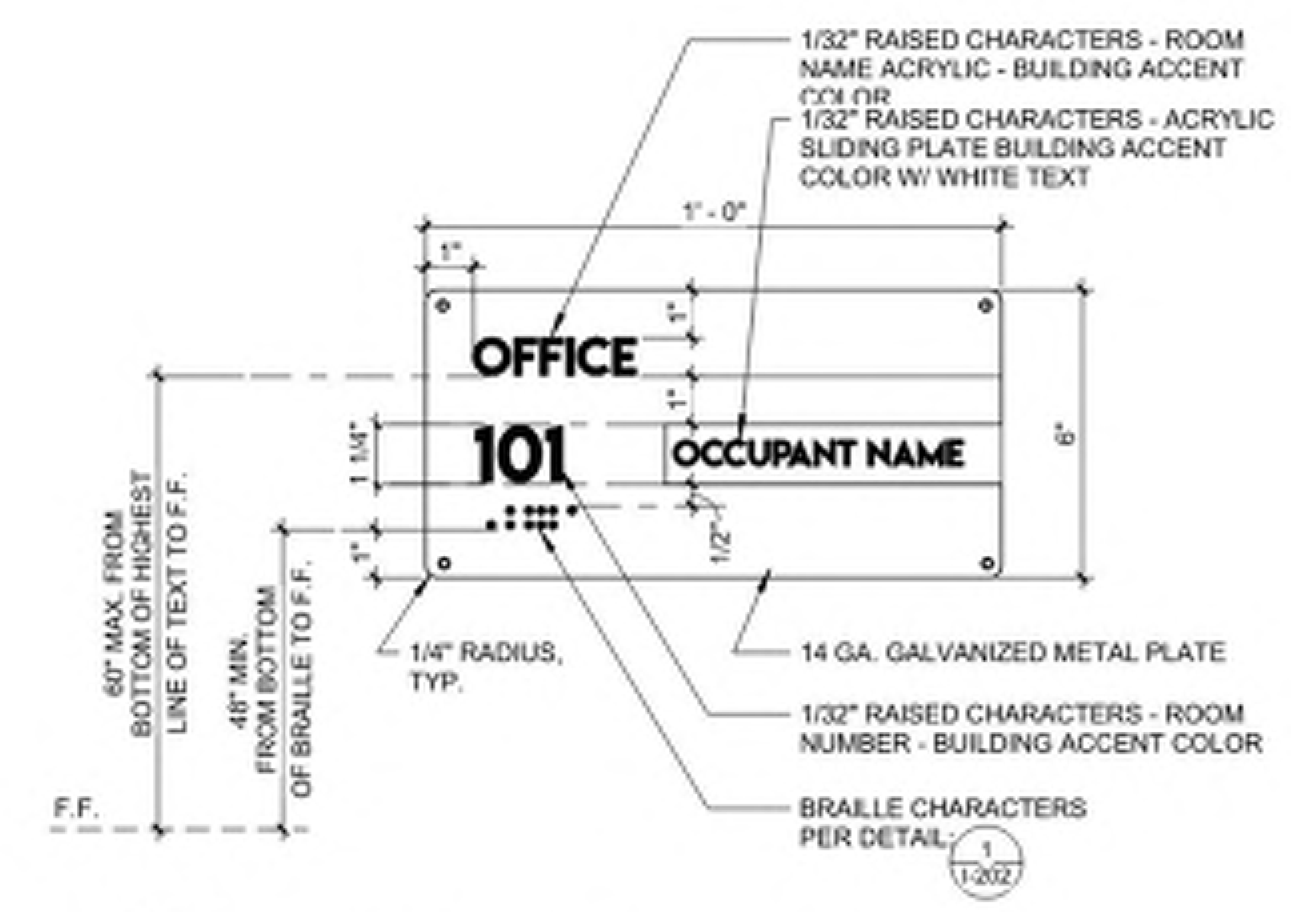
12 INTERIOR EXIT ROUTE SIGN
12" = 1'-0"



GENERAL NOTES:

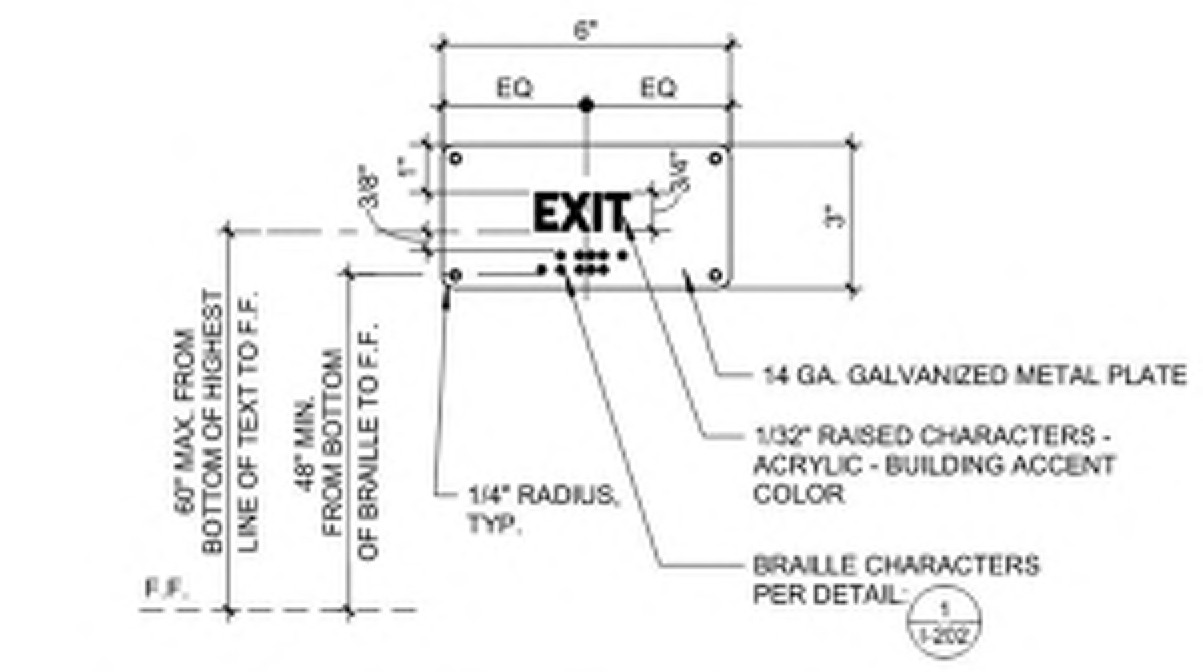
1. LETTERS, BRAILLE CHARACTERS & PICTOGRAM SYMBOL TO BE RAISED .025" to .037" ABOVE THEIR BACKGROUND.
2. UPPER CASE CHARACTERS TO BE SANS SERIF, 5/8" MIN. TO 2" MAX. HEIGHT.
3. WIDTH OF UPPER CASE "O" IS 60% MIN. AND 110% MAX. OF THE HEIGHT OF THE UPPERCASE "I".
4. STROKE WIDTH TO HEIGHT RATIO TO BE BETWEEN 15% OF CHARACTER HEIGHT.
5. CHARACTERS & SYMBOLS SHALL CONTRAST WITH
PICTOGRAM ACCOMPANIED BY EQUIVALENT VERBAL DESCRIPTION DIRECTLY BELOW.
8. PICTOGRAM IDENTIFICATION SIGN TO MATCH DOOR SIGN.
9. SIGN TO BE A MINIMUM OF 6" x 6".
10. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" X 18", CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING.
11. BRAILLE CHARACTERS TO BE CONTRACTED GRADE II, 3/8" TO 1/2" MAX BELOW TACTILE.
12. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

9 RDS - RESTROOM DOOR SIGNAGE
1" = 1'-0"



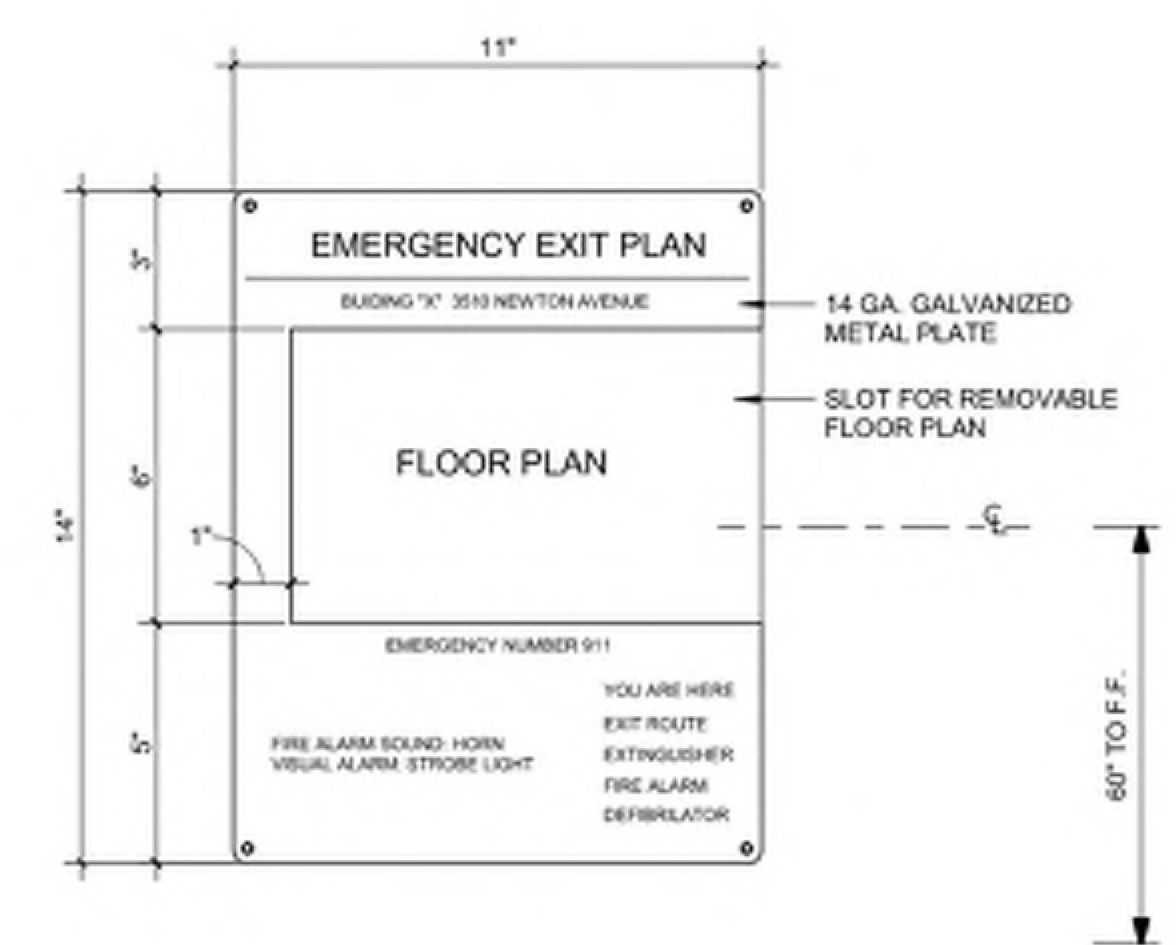
NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200
2. CHARACTER AND SYMBOLS IDENTIFYING PERMANENT ROOMS SHALL HAVE RAISED LETTERS 1/32" ABOVE THEIR BACKGROUND.

6 R2 - INTERIOR ROOM SIGNAGE W/ NAME PLATE
3" = 1'-0"

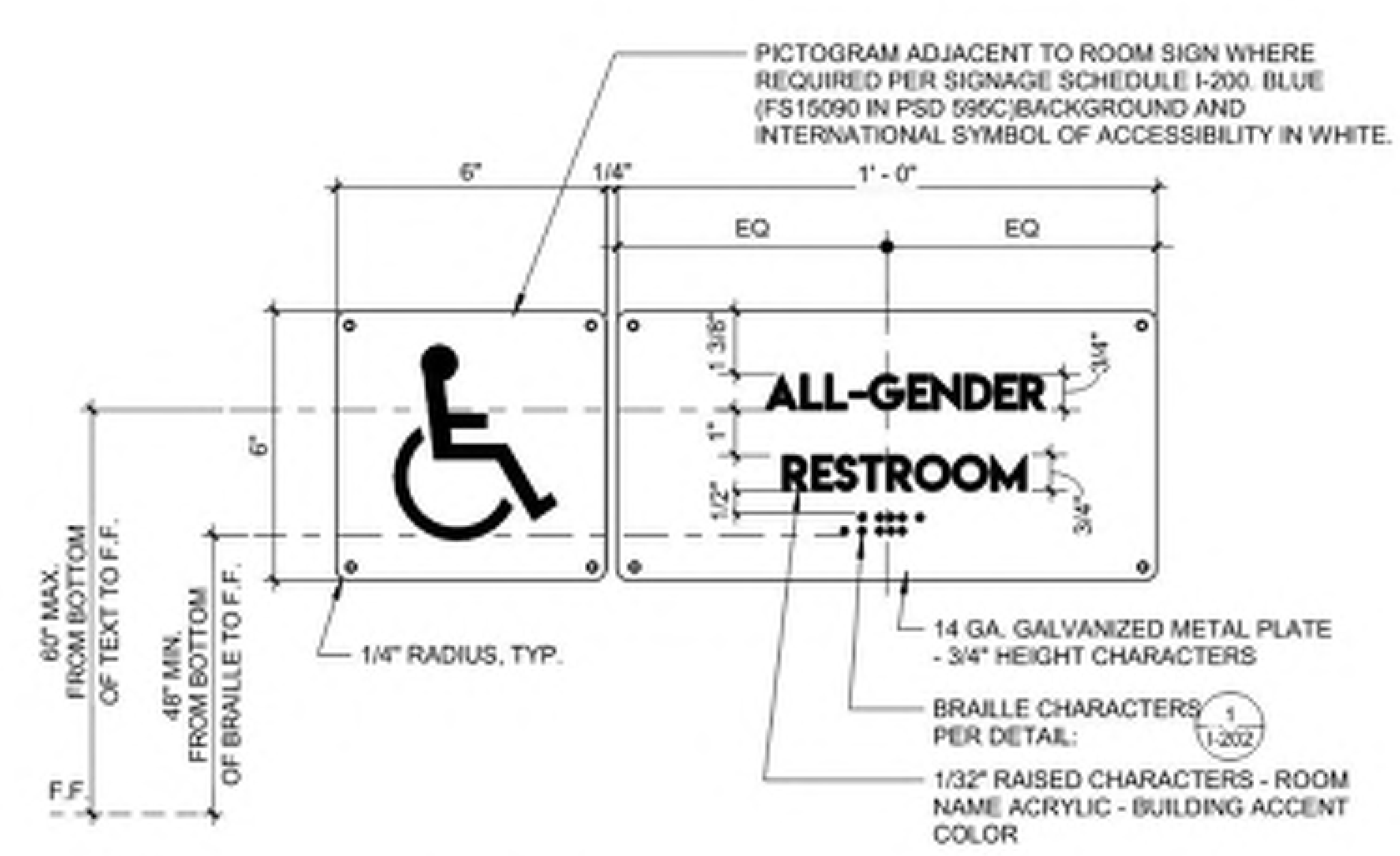


NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200
2. TYPE E2 SIM. COPY TO READ "EXIT ROUTE"
3. CHARACTER AND SYMBOLS IDENTIFYING PERMANENT ROOMS SHALL HAVE RAISED LETTERS 1/32" ABOVE THEIR BACKGROUND.

2 E1/E2 - INTERIOR EXIT WALL SIGN
3" = 1'-0"



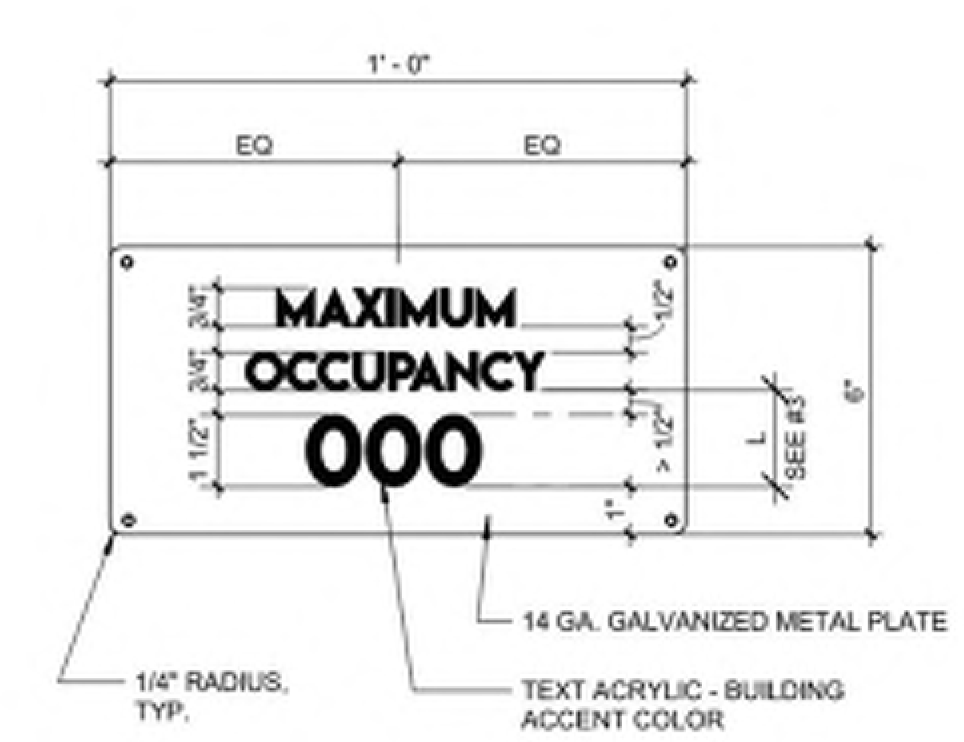
3 TYPE E3 - EVACUATION MAP WALL SIGN
3" = 1'-0"



NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200.
2. TYPE R3/R4/R5/R6 SIM. COPY PER SIGNAGE SCHEDULE I-200.
3. CHARACTER AND SYMBOLS IDENTIFYING PERMANENT ROOMS SHALL HAVE RAISED LETTERS 1/32" ABOVE THEIR BACKGROUND.
4. PROVIDE RESTROOM DOOR SIGNAGE AT EVERY ROOM'S DOOR WHERE THIS SIGN IS PROVIDED, PER DETAIL 9/I-203

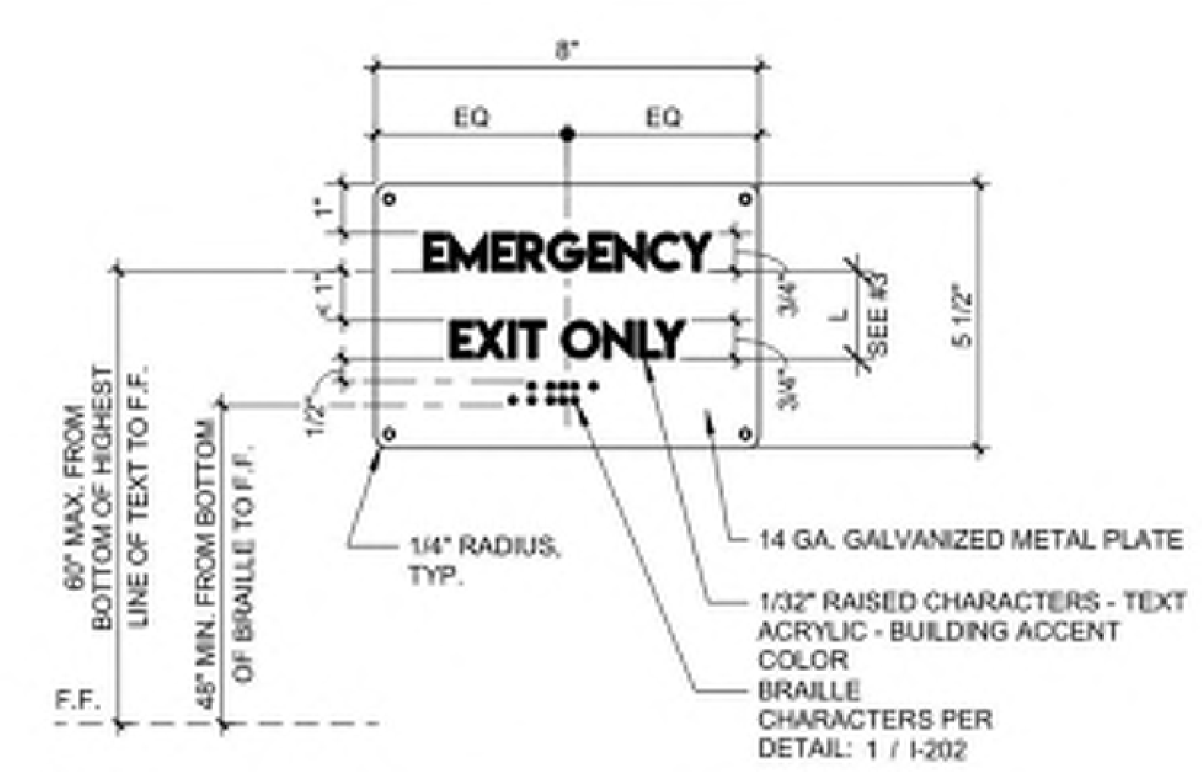
R3 = ALL GENDER
R4 = BOYS
R5 = GIRLS
R6 = MEN
R7 = WOMEN

7 R3/R4/R5/R6/R7 - ALL GENDER RESTROOM WALL SIGN
3" = 1'-0"



NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200
2. PROVIDE AT ALL ROOMS WITH OCCUPANT LOAD GREATER THAN 49.
3. LINE SPACING FORMULA FOR 1 1/2" TEXT: L=135%X<L<170%X (X= TEXT HEIGHT)
2.025<L<2.55

10 R8 - MAXIMUM OCCUPANCY WALL SIGN
3" = 1'-0"



NOTES:
1. FOR ACCESSIBILITY INFORMATION SEE SIGNAGE NOTES ON SHEET I-200
2. CHARACTER AND SYMBOLS IDENTIFYING PERMANENT ROOMS SHALL HAVE RAISED LETTERS 1/32" ABOVE THEIR BACKGROUND.
3. LINE SPACING FORMULA FOR 1/2" TEXT: L=135%X<L<170%X (X= TEXT HEIGHT)
1.0125<L<1.275

4 E4 - EMERGENCY EXIT ONLY WALL SIGN
3" = 1'-0"

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DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

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LICENSED ARCHITECT
STATE OF CALIFORNIA
NO. C28089

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: MEP
CHECKED BY: JM / AS

SIGNAGE TYPES

I-203

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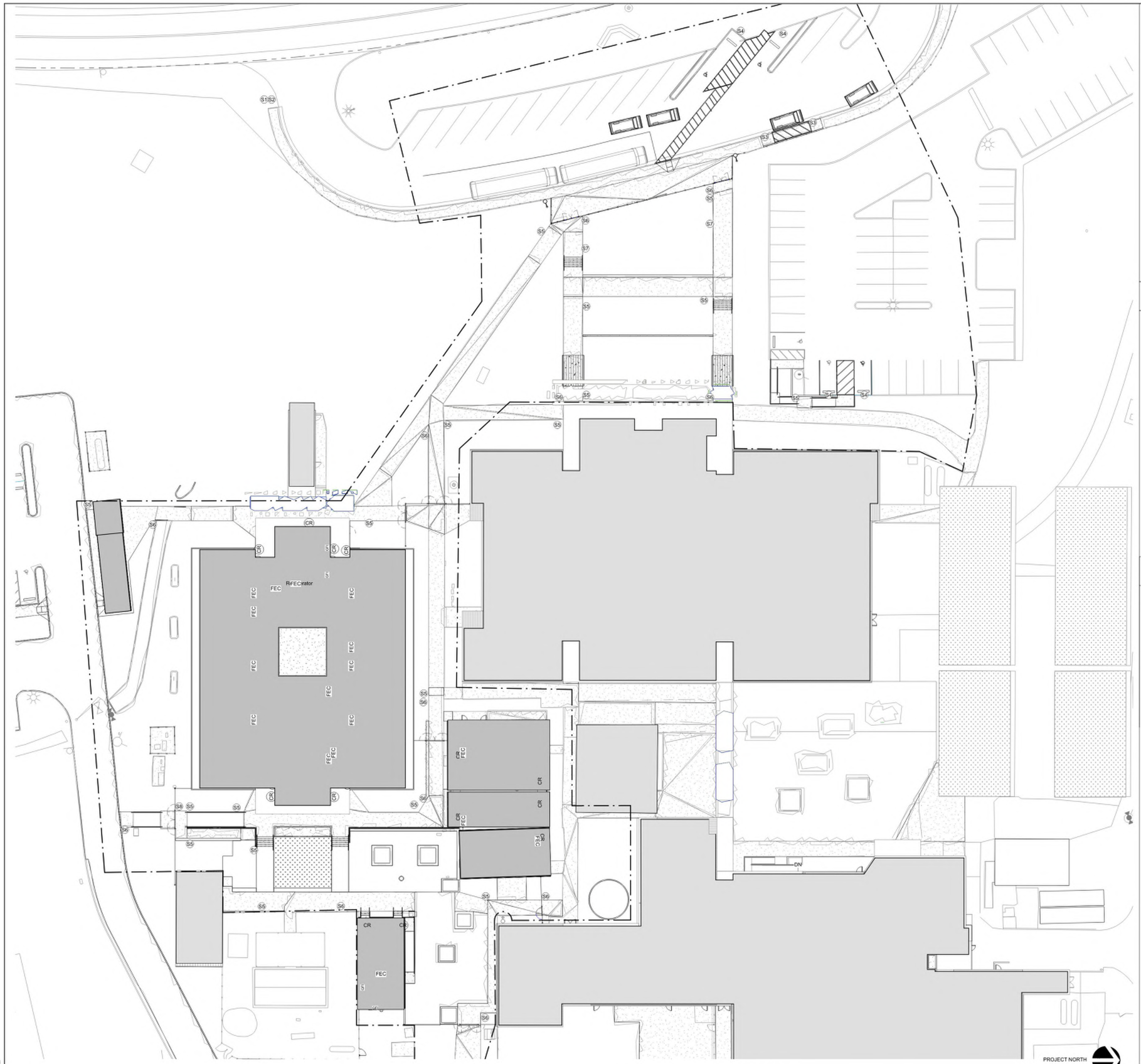

1 SIGNAGE SITE PLAN
1" = 20'-0"

PROJECT NORTH
TRUE NORTH

KEYNOTES

SIGNAGE LEGEND

B- EXTERIOR ROOM SIGNAGE
B4: 1/I-203

E- INTERIOR EXIT SIGNAGE
E1: 2/I-203 E2: 2/I-203 E3: 3/I-203 E4: 4/I-203

R- INTERIOR SIGNAGE
R1: 5/I-203 R2: 6/I-203 R3: 7/I-203 R4: R5: R6: R7: R8: 10/I-203 R9: 11/I-203 RDS: 9/I-203

S- SITE SIGNAGE
S1: 4/I-202 S2: 5/I-202 S3: 7/I-202 S4: 8/I-202 S5: 11/I-202 S6: 12/I-202 S7: 14/I-202 S8: 15/I-202

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AUDREY V. SORAYA DAVY
NO. C28089
REN. 08/31/23
STATE OF CALIFORNIA

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DAVY PROJECT No:	2017
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CHECKED BY:	JM / AS

SIGNAGE PLANS - SITE

I-210

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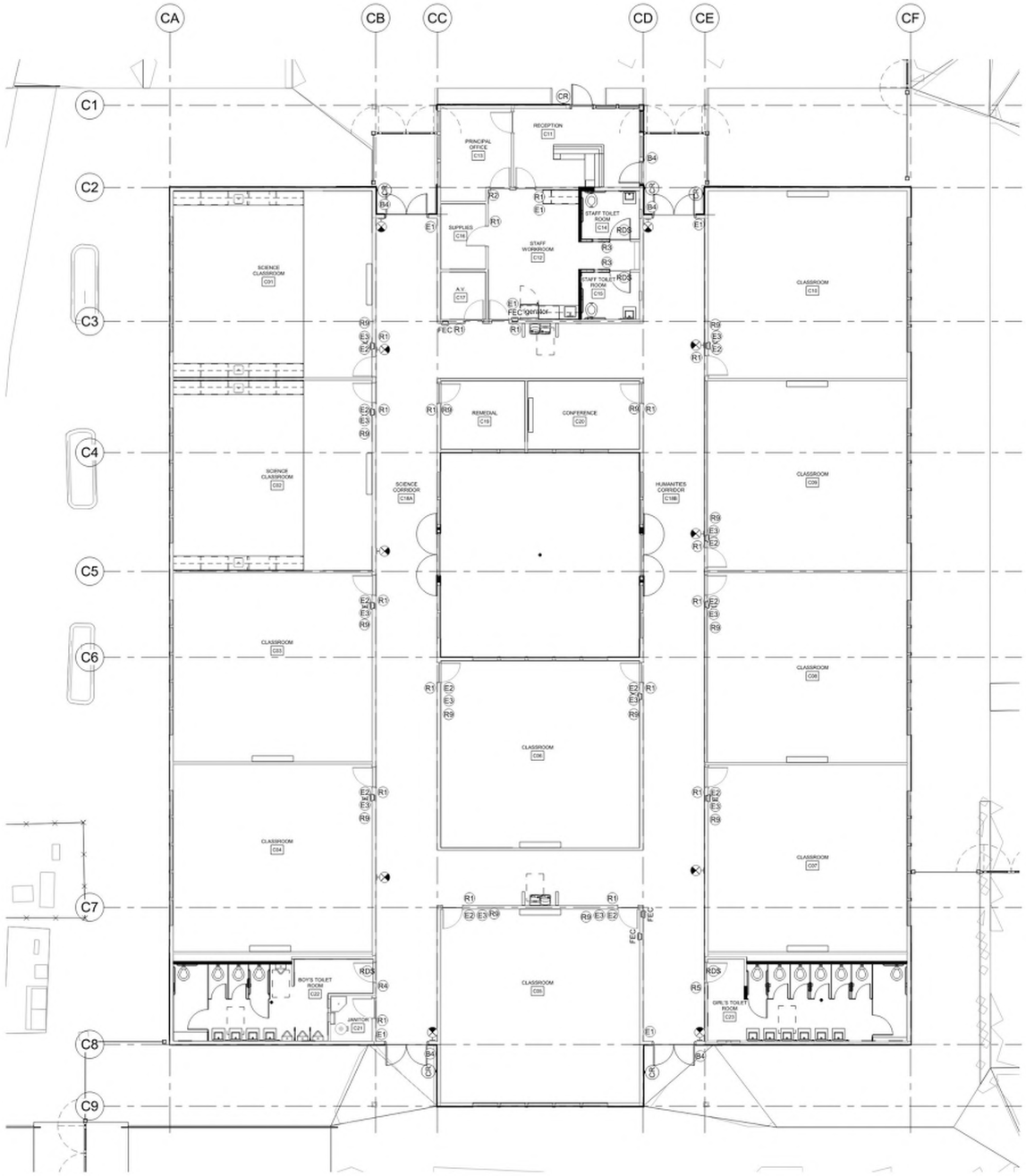

1 BUILDING C - SIGNAGE PLAN
1/8" = 1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES

1. ASSISTED LISTENING DEVICES: PROVIDE 2 TRANSMITTERS & 4 RECIEVERS TO SERVE ALL CLASSROOMS ON CAMPUS. PROVIDE ADDITIONAL TRANSMITTERS AND RECIEVERS BASED ON OCCUPANCY OF OTHER ASSEMBLY SPACES i.e. MPR, CONFERENCE ROOMS, ECT.
2.

KEYNOTES

SIGNAGE LEGEND

B- EXTERIOR ROOM SIGNAGE
B4: 1/I-203

E- INTERIOR EXIT SIGNAGE
E1: 2/I-203 E2: E3: 3/I-203 E4: 4/I-203

R- INTERIOR SIGNAGE
R1: 5/I-203 R2: 6/I-203 R3: 7/I-203 R4: R5: R6: R7: R8: 10/I-203 R9: 11/I-203 RDS: 9/I-203

S- SITE SIGNAGE
S1: 4/I-202 S2: 5/I-202 S3: 7/I-202 S4: 8/I-202 S5: 11/I-202 S6: 12/I-202 S7: 14/I-202 S8: 15/I-202

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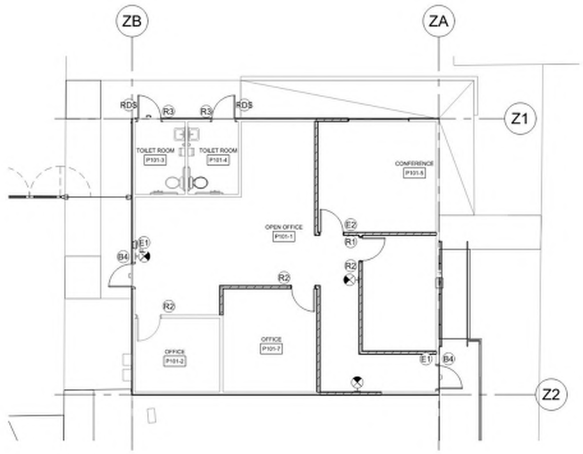
DAVY PROJECT No:	2017
DRAWN BY:	MEP / WA
CHECKED BY:	JM / AS

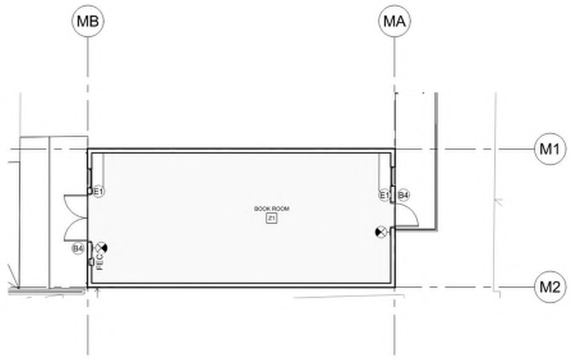
SIGNAGE PLANS - BUILDING C

I-221

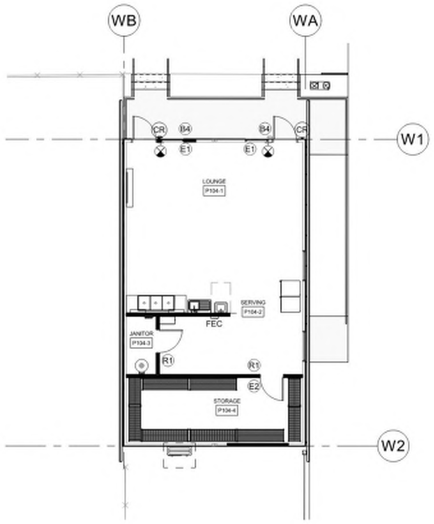
9/27/2022 9:33:05 AM



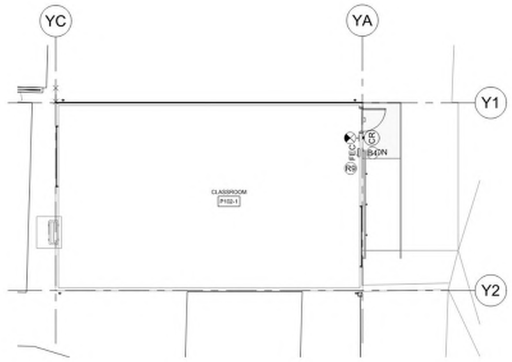
1 BUILDING P101 - SIGNAGE PLAN
1/8" = 1'-0"



2 BUILDING BOOKROOM - SIGNAGE PLAN
1/8" = 1'-0"



4 BUILDING P104 - SIGNAGE PLAN
1/8" = 1'-0"



3 BUILDING P102 - SIGNAGE PLAN
1/8" = 1'-0"

PLAN NORTH

TRUE NORTH

GENERAL NOTES

1. ASSISTED LISTENING DEVICES: PROVIDE 2 TRANSMITTERS & 4 RECIEVERS TO SERVE ALL CLASSROOMS ON CAMPUS. PROVIDE ADDITIONAL TRANSMITTERS AND RECIEVERS BASED ON OCCUPANCY OF OTHER ASSEMBLY SPACES i.e. MPR, CONFERENCE ROOMS, ECT.
2.

KEYNOTES

SIGNAGE LEGEND

B- EXTERIOR ROOM SIGNAGE
B4: 1 / I-203

E- INTERIOR EXIT SIGNAGE
E1: 2 / I-203 E2: 2 / I-203 E3: 3 / I-203 E4: 4 / I-203

R- INTERIOR SIGNAGE
R1: 5 / I-203 R2: 6 / I-203 R3: 7 / I-203 R4: R5: R6: R7: R8: 10 / I-203 R9: 11 / I-203 RDS: 9 / I-203

S- SITE SIGNAGE
S1: 4 / I-202 S2: 5 / I-202 S3: 7 / I-202 S4: 8 / I-202 S5: 11 / I-202 S6: 12 / I-202 S7: 14 / I-202 S8: 15 / I-202

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
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SDVOSB

LICENSED ARCHITECT
SYDNEY V. STRATTON
No. C28089
REN. 08/31/23
STATE OF CALIFORNIA

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	MEP / WA
CHECKED BY:	JM / AS

SIGNAGE PLANS - BUILDINGS P101, BOOKROOM, P102 & P104

I-241

10/10/2022 1:58:50 PM

SPECIAL INSPECTIONS & TESTING (CBC CHAPTER 17A)

1. SPECIAL INSPECTIONS & TESTING SHALL MEET THE REQUIREMENTS OF CBC SECTION 1704A, 1707A AND 1708A, TITLE 24, PART 2, CCR.
2. PROJECT INSPECTOR OF RECORD: IN ACCORDANCE WITH TITLE 24, PART 1.
3. CERTIFIED SPECIAL INSPECTORS SHALL:
   - A. BE CERTIFIED BY DSA TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.
   - B. PREPARE REPORTS THAT SHALL BE SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
   - C. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS.
   - D. FURNISH INSPECTION REPORTS TO THE ENGINEER AND PROJECT INSPECTOR AND DSA. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE ENGINEER AND DSA PER CBC SECTION 1704A.2.4.
   - E. SUBMIT TO THE ENGINEER AND DSA A FINAL VERIFIED REPORT, SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER, STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE
4. SUMMARY OF CONTINUOUS AND PERIODIC INSPECTIONS:
   - A. SPECIAL INSPECTIONS ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY CBC SECTION 110.3, TITLE 24, PART 2, CCR. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY DSA. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF DSA IS SUBJECT TO REMOVAL OR EXPOSURE.
   - B. CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
   - C. IT IS THE RESPONSIBILITY OF THE PROJECT INSPECTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY BEFORE PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
5. SEE DSA-103 DOCUMENT FOR LIST OF REQUIRED INSPECTIONS BY DSA. THIS DOCUMENT SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS.

STRUCTURAL OBSERVATION (CBC CHAPTER 17A)

1. DEFINITION: THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY CBC SECTION 110, CHAPTER 17A OR OTHER SECTIONS OF THE CODE.
2. IN ACCORDANCE WITH CBC SECTION 1704A.6 THE ENGINEER REQUIRES OBSERVATION DURING CONSTRUCTION OF THE FOLLOWING:
   - A. FOUNDATION EXCAVATION AND REINFORCEMENT
     GRADE BEAMS
     HOLDOWNS
   - B. PARTIAL FRAMING
     STEEL CONNECTIONS
     SHEARWALL FRAMING
     NOTCHED BEAMS AND STUDS
     REINFORCING STEEL
   - C. FINAL FRAMING
     ROOF DIAPHRAGM NAILING
     DRAG & CHORD CONNECTIONS
     ALL REVISIONS TO PLANS
3. NOTIFICATION: 48 HOURS BEFORE REQUIRED OBSERVATION. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERED MATERIALS FOR OBSERVATION.
4. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVERS KNOWLEDGE, HAVE NOT BEEN RESOLVED.

WOOD (CBC CHAPTER 23)

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR (DF) OR LARCH GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WCLIB & WWPA)
2. WOOD GRADES:
   - A. FOR HORIZONTAL MEMBERS:
     3 X & LARGER BEAMS & HEADERS: ....GRADE #1
     2 X: ....GRADE #1
   - B. FOR VERTICAL MEMBERS:
     2 X & 3 X STUDS: ....GRADE #2
     4 X & LARGER STUDS OR POSTS..........GRADE #1
3. APA RATED SHEATHING CONFORMING TO APA STANDARD PS-1 SHALL BE USED FOR FLOOR, ROOF, AND WALL SHEATHING IN ACCORDANCE WITH CBC SECTION 2303.1.5, TITLE 24, PART 2, CCR. PLYWOOD AND OSB SHALL COMPLY WITH DSA IR 23-6.
4. NOTCHING AND BORING OF STUDS AND JOISTS SHALL BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER.
5. AS A MINIMUM, ALL NAILING SHALL BE WITH COMMON NAILS, EXCEPT AS NOTED IN CBC TABLE 2304.10.1.
6. 10D X 2 1/2" COMMON NAILS CAN BE USED FOR ATTACHMENT OF PLYWOOD SHEATHING.
7. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY, WHICH IS IN CONTACT WITH EARTH OR RESTING ON FOUNDATIONS, SHALL BE PRESSURE TREATED DOUGLAS FIR. NEWLY EXPOSED SURFACES RESULTING FROM FIELD CUTTING, BORING OR HANDLING SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M-4.
8. BOLTS: ALL BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" DIAMETER LARGER THAN NOMINAL BOLT DIAMETERS. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER. THREAD PROJECTION SHALL BE 1/16 INCH MINIMUM. ALL NUTS SHALL BE TIGHTENED WHEN INSTALLED AND RE-TIGHTENED AT THE COMPLETION OF WORK OR BEFORE CLOSING IN.
9. MACHINE BOLT ANCHOR BOLTS SHALL BE PROVIDED WITH FULL BODY DIAMETER AS FOLLOWS:

NOMINAL SIZE (INCHES)		BODY OR SHANK DIAMETER (INCHES)	
		MAX	MIN
1/2	0.500	0.515	0.482
5/8	0.625	0.642	0.605
3/4	0.750	0.768	0.729
7/8	0.875	0.895	0.852
1	1.000	1.022	0.976

   - A. ADOPTED FROM ANSI B18.2.1.
   - B. FOR BOLT DIAMETERS NOT INDICATED, REFER TO ASME B18.2.1 AND B18.2.6.
   - C. THE BODY AND SHANK OF A BOLT IS THE SMOOTH PORTION BETWEEN THE HEAD AND THE THREADS.
10. LAG SCREWS: SHALL BE FULL BODY DIAMETER ACCORDING TO ANSI B18.2.1 PRE-DRILL LEAD WITH A BIT SIZE OF 40% TO 70% OF THE SHANK DIAMETER FOR THE THREADED PORTION. CLEARANCE HOLE TO BE THE SAME LENGTH AND DIAMETER AS THE UN-THREADED SHANK. LUBRICATE LAGS AND SCREW INTO PLACE.
11. WOOD SCREWS SHALL BE CUT THREAD ACCORDING TO ANSI B18.6.1
12. WASHERS: ALL BOLT HEADS, LAG SCREWS AND NUTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS.
13. ALL FRAMING ANCHORS, POST CAPS, BASES, HANGERS, STRAPS, ETC., SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" LATEST CATALOG OR ENGINEER APPROVED EQUAL. SUBMIT LOAD COMPARISONS WITH CATALOG AND ICC REPORTS TO THE ENGINEER FOR APPROVAL.
14. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS AND 2X SOLID BLOCKING UNDER PARTITIONS PERPENDICULAR TO JOISTS.
15. PROVIDE FULL DEPTH BLOCKING OR BRIDGING NOT EXCEEDING 8 FEET ON CENTER FOR ALL 2X12 JOISTS AND RAFTERS AND PER CBC SECTION 2308.7.8.
16. TOP PLATES OF ALL WOOD STUD WALLS TO BE 2-2X MINIMUM (SAME WIDTH AS STUDS), LAP 48" (MINIMUM), WITH NOT LESS THAN 6-16D NAILS AT EACH LAP AND NOT MORE THAN 12" BETWEEN NAILS.
17. MOISTURE CONTENT OF WOOD AT TIME OF PLACING SHALL NOT EXCEED 19%.
18. OVER DRIVING OF NAILS THROUGH SHEARWALL, ROOF, OR FLOOR SHEATHING IS NOT ALLOWED. NAILS SHALL BE DRIVEN SO THAT THE HEADS ARE FLUSH WITH THE SURFACE OF SHEATHING.
19. MACHINE APPLIED NAILING TO WOOD FRAMING OR PLYWOOD: SUBJECT TO SATISFACTORY JOB SITE DEMONSTRATION FOR THIS PROJECT AND APPROVAL BY THE ENGINEER AND DSA. IF NAIL-HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.
20. WHERE ADJACENT WALLS ARE SHEATHED, PROVIDE SHEATHING OVER AND UNDER OPENINGS AND REMAINDER OF UNSHEATHED WALLS.
21. FASTENERS, NAILS AND CONNECTORS IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-653 HOT DIPPED ZINC COATED GALVANIZED OR SHALL BE STAINLESS STEEL.
22. WHEN HARDWARE THAT REQUIRE 10d x 1 1/2" NAILS ARE INSTALLED OVER SHEATHING. THE LENGTH OF THE NAILS USED SHALL BE INCREASED BY THE THICKNESS OF THE SHEATHING.

ABBREVIATIONS

A.B.	ANCHOR BOLT
ABV.	ABOVE
ADD'L.	ADDITIONAL
ADJ.	ADJACENT
ALT.	ALTERNATE
ARCH.	ARCHITECT
ARCH'L.	ARCHITECTURAL
BLW.	BELOW
B.F.	BRACED FRAME
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
B.O.F.	BOTTOM OF FOOTING
BR.	BRACE
BRDG.	BRIDGE(ING)
BRG.	BEARING
(B)	BOTTOM
BTWN.	BETWEEN
C	CAMBER(ED)
CANT.	CANTILEVERED
C.F.	CUBIC FEET(FOOT)
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.J.	CONSTRUCTION JOINT
CL.	CENTER LINE
CLG.	CEILING
CLR.	CLEAR
CMU.	CONC. MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CTSK.	COUNTERSINK
CTR.	CENTER(ED)
C.Y.	CUBIC YARD
d	PENNY(NAILS)
DBL.	DOUBLE
D.F.	DOUGLAS FIR
DIA.(Ø)	DIAMETER
DIAG.	DIAGONAL
DIAPH.	DIAPHRAGM
DIM.	DIMENSION
DN.	DOWN
DP (D)	DEEP(DEPTH)
DWG.	DRAWING(S)
DWL.	DOWEL(S)
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
E.N.	EDGE NAIL
ENG.	ENGINEER
E.O.D.	EDGE OF DECK
E.O.S.	EDGE OF SLAB
EQ.	EQUAL
EQPT.	EQUIPMENT
EXP.	EXPANSION
EXIST	EXISTING
(E)	EXISTING
EXT.	EXTERIOR
FAB.	FABRICATION
FND.	FOUNDATION
FIN.	FINISH(ED)
F.F.	FINISH FLOOR
FLG.	FLANGE
FLR.	FLOOR
F.N.	FIELD(FACE)NAIL
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FRM.	FRAME
FRMG.	FRAMING
F.S.	FAR SIDE
FT.(')	FOOT(FEET)
FTDF	FIRE-RETARDANT TREATED DOUGLAS FIR
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GB.	GRADE BEAM
GLB.	GLUED LAMINATED BEAM
GRD.	GRADE
GYPBD.	GYPSUM WALLBOARD
HD	HOLD DOWN
HDR.	HEADER
HGR.	HANGER
HORIZ.	HORIZONTAL
(H)	HORIZONTAL
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT.	HEIGHT
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
I.F.	INSIDE FACE
IN.(")	INCH(S)
INT.	INTERIOR
JST.	JOIST
JT.	JOINT
K	KIPS(1000)
LAT.	LATERAL
LB(#)	POUNDS
LDGR.	LEDGER
L.F.	LINEAL FEET(FOOT)
LONG.	LONGITUDINAL
LGTH.	LENGTH
LLH	LONG LEG HORIZ.
LLV	LONG LEG VERT.
LT. WT.	LIGHT WEIGHT
L.S.	LAG SCREW
MAS.	MASONRY
MAT'L.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
MISC.	MISCELLANEOUS
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
N. WT.	NORMAL WEIGHT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
O.H.	OPPOSITE HAND
OPNG.	OPENING
ORNT.	ORIENTATE(ION)
O.W.J.	OPEN WEB JOISTS
O.W.J.	OPEN WEB STEEL JOISTS
PAR. (//)	PARALLEL
P/C	PRECAST CONCRETE
PERP.	PERPENDICULAR
PL.	PLATE
PLAM	PARALAM BEAM
PLY.	PLYWOOD
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
P/T	POSTTENSIONED
P/S	PRE-STRESSED
QTY.	QUANTITY
RAD. (R)	RADIUS
REF.	REFERENCE
REINF.	REINFORCEMENT(ING)
REQ'D.	REQUIRED
M.F.	MOMENT FRAME
R.O.	ROUGH OPENING
RO.S.	ROUGH SAWN
R.S.	RE-SAWN
SCH.	SCHEDULE
SHR	SHEAR
SHT.	SHEET
SIM.	SIMILAR
SKW.	SKEW(ED)
SPEC.	SPECIFICATION(S)
SQ.	SQUARE
SS	SELECT STRUCTURAL
STD.	STANDARD
STG.	STRONG
STGR.	STAGGER(ED)
STIFF.	STIFFENER(S)
STIR.	STIRRUP(S)
STL.	STEEL
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
SYMM.	SYMMETRICAL
(T)	TOP
T & B	TOP AND BOTTOM
TEMP.	TEMPERATURE
T & G	TONGUE AND GROOVE
THK.	THICK(NESS)
THRD.	THREADED
TEMP.	TEMPORARY
T.N.	TOE NAIL
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF SHEATHING
T.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.(V)	VERTICAL
VIF	VERIFY IN FIELD
(W)	WIDE(WIDTH)
W/	WITH
WD.	WOOD
W.F.	WIDE FLANGE
W.P.	WORK POINT
WPJ	WEAKENED PLANE JOINT
W.S.	WOOD SCREW(S)
WT.	WEIGHT
WWF	WELDED WIRE FABRIC
X-STG	EXTRA STRONG
XX-STG	DOUBLE EXTRA STRONG
YD.	YARD

STRUCTURAL STEEL (CBC CHAPTER 22A)

1. ALL WORKMANSHIP AND MATERIALS SHALL FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS SHALL CONFORM TO 14th EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
2. MATERIALS:
   WIDE FLANGE..........ASTM A-992..........GRADE 50
   CHANNELS..........ASTM A-36..........GRADE 36
   ANGLES & RODS..........ASTM A-36..........GRADE 36
   PLATES..........ASTM A-572..........GRADE 50
   HSS (TUBES)..........ASTM A-500..........GRADE B (FY= 46 KSI)
   HSS (ROUNDS)..........ASTM A-500..........GRADE B (FY= 42 KSI)
   HSS (PIPES)..........ASTM A-53..........GRADE B (FY= 35 KSI)
   MACHINE BOLTS..........ASTM A-307..........GRADE A
   NUTS..........ASTM A-563..........HEX, GRADE A
   ANCHOR BOLTS/ RODS*..........ASTM F-1554*..........(SEE PLAN FOR GRADE)
   NUTS*..........ASTM A-563*..........HEAVY HEX, GRADE A
   HARDENED WASHERS..........ASTM F-436
   HEADED STUDS..........ASTM A-108..........TEST PER CBC SECTION 2213A.2
   NON-SHRINK GROUT..........ASTM C-1107..........7000 PSI (NON-METALLIC)
3. ROLLED STRUCTURAL SHAPES SHALL BEAR MILL IDENTIFICATION MARKS IN CONFORMANCE WITH ASTM A6 HSS (TUBES AND ROUNDS) SHALL BEAR MILL IDENTIFICATION IN ACCORDANCE WITH ASTM A-500 AND HSS (PIPES) IN ACCORDANCE WITH ASTM A-53.
4. BOLT HOLES:
   - A. TYPICAL STEEL TO STEEL CONNECTIONS..........BOLT DIAMETER + 1/16 INCH
   - B. ANCHOR BOLTS (RODS)..........BOLT DIAMETER + 3/16 INCH
5. HEADED AND THREADED ANCHORS: NELSON SELF-FLUXED ANCHORS.
6. NON- SHRINK GROUT SHALL BE INSTALLED IMMEDIATELY AFTER COLUMN IS PLUMBED. CONTRACTOR SHALL NOT LOAD COLUMN ANCHOR BOLTS BEFORE PLACEMENT OF NON-SHRINK GROUT WITHOUT TAKING MEASURES TO PREVENT BUCKLING OF ANCHOR BOLTS UNDER CONSTRUCTION LOAD.
7. ALL WELDING SHALL BE DONE BY THE FLUX-CORE PROCESS USING APPROVED ELECTRODES PER AWS SPECIFICATION E70XX (LOW HYDROGEN ELECTRODES). WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 AND AWS D1.4 AND SHALL BE PERFORMED BY CERTIFIED WELDERS QUALIFIED UNDER THE PROCEDURES CONTAINED THEREIN.
8. WHERE WELD LENGTH IS NOT SHOWN, IT SHALL BE THE FULL LENGTH OF THE JOINT.
9. WHERE MINIMUM AISC FILLET WELD THICKNESS REQUIREMENT EXCEEDS WELDS SHOWN ON DETAILS, PROVIDE MINIMUM AISC WELD.
10. INSPECTION OF WELDING SHALL CONFORM TO CBC SECTION 1705A.2 TITLE 24, PART 2, CCR.
11. INSPECTION OF SHOP FABRICATION SHALL CONFORM TO CBC SECTION 1704A.2.5, TITLE 24, PART 2, CCR.
12. STRESSES OCCURING DURING FABRICATION, SHIPMENT, AND ERECTION SHALL BE TEMPORARY AND NOT EXCESSIVE. STRESSES AT ALL TIMES SHALL BE LESS THAN DESIGN AND ALLOWABLE STRESSES. THE FULL DESIGN AND LOAD CARRYING CAPACITY OF THE STEELWORK SHALL NOT BE IMPAIRED DUE TO FABRICATION, SHIPMENT, OR ERECTION PROCEDURES. THROUGHOUT THE COMPLETE PROCESS, THE STABILITY OF INDIVIDUAL MEMBERS AND ASSEMBLIES SHALL BE MAINTAINED.
13. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER BEFORE FABRICATION.
14. ALL EXTERIOR EXPOSED STEEL SHALL BE PAINTED OR GALVANIZED. SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.

SHOT-PINS/ POWDER DRIVEN FASTENERS

1. MATERIALS:
   SHOTPINS.......... HILTI 'X-U' (U.O.N.) ICC-ESR-2269
   SHANK DIAMETER..........0.157 INCHES
2. INSTALLATION INTO CONCRETE

EMBED (IN)	EDGE MIN (IN)	SPACING MIN (IN)
PER DETAIL	3	4

3. INSTALLATION INTO STEEL

EMBED (IN)	EDGE MIN (IN)	SPACING MIN (IN)
SEE NOTE 5.	5 1/2	1

4. FASTENERS SHALL BE DRIVEN TO A PENETRATION WHERE THE SHANK PIERCES THROUGH STEEL BASE MATERIAL, UNLESS USING 3/4 INCH OR GREATER STEEL THICKNESS PROVIDE 1/2 INCH PENETRATION.
5. QUALIFICATION FOR USE OF ALL POWDER ACTUATED TOOLS SHALL MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND SHALL MEET OSHA REQUIREMENTS.
6. WHEN INSTALLING SHOTPINS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE SHOTPIN AND THE REINFORCING BAR.
7. FASTENERS ARE TO BE DRIVEN INTO THE CONCRETE AFTER THE CONCRETE OR MORTAR AND GROUT ATTAIN THEIR SPECIFIED STRENGTH.
8. CONCRETE THICKNESS MUST BE A MINIMUM OF 3 TIMES THE EMBEDMENT DEPTH OF THE FASTENER.
9. FASTENERS SHALL NOT BE USED FOR ATTACHMENT OF PRESERVATIVE-TREATED OR FIRE-RETARDANT- TREATED LUMBER.

CONCRETE-EPOXY ANCHORED REINFORCEMENT & THREADED RODS

1. SPECIAL INSPECTION IS REQUIRED.
2. MATERIALS: (ICC ESR 3814)
   EPOXY ADHESIVE.......... HILTI..........HIT RE-500V3
3. INSTALLATION OF REINFORCEMENT AND THREADED RODS:
   - A. SHALL BE IN ACCORDANCE WITH ICC ESR 3814.
   - B. USE CARBIDE-TIPPED DRILL BITS CONFORMING TO ANSI B212.15.
   - C. CLEAN HOLES OF DUST AND DEBRIS USING OIL-FREE COMPRESSED AIR AND A STEEL WIRE BRUSH FOR STANDARD EQUIPMENT AND ANCHORS.
   - D. NO CLEANING OF HOLES IS REQUIRED WITH 'HILTI SAFESET' SYSTEM USING HIT-Z OR HIT-Z-R ANCHORS.
4. DO NOT INSTALL REINFORCEMENT OR ANCHORS IN CONCRETE THAT IS LESS THAN 21 DAYS OLD.
5. ANCHORS SHALL BE TESTED TO TWO TIMES THE ALLOWABLE DESIGN DEMAND. SEE DETAILS FOR TESTING VALUES.
6. TESTING AND INSPECTIONS SHALL MEET THE REQUIREMENTS OF CBC SECTION 1910A.5.
7. ANCHORS SHALL BE USED ONLY WHERE SPECIFICALLY INDICATED ON PLANS AND DETAILS.

FOUNDATION (CBC CHAPTER 18A)

1. THE SOILS REPORT RECOMMENDATIONS SHALL BE COMPLIED WITH BY THE CONTRACTOR.
2. SOILS INFORMATION:
   SEE SOILS REPORT BY: GEOCON, INC.
   DATED: OCTOBER 15, 2021
   SOIL DESIGN PARAMETERS:
   ALLOWABLE BEARING PRESSURE.......... 1500 PSF (1000 PSF FOR MODULAR BLDG.)
   LATERAL BEARING (PASSIVE) PRESSURE.......... 300 PSF
   CANTILEVER ACTIVE (LEVEL).......... 35 PCF
   CANTILEVER ACTIVE (2:1 SLOPE).......... 50 PCF
   COEFFICIENT OF FRICTION.......... 0.35
   MINIMUM CONTINUOUS FOOTING WIDTH.......... 12"
   MINIMUM SPREAD FOOTING WIDTH.......... 24"
   BOTTOM OF FOOTINGS SHALL BE AT LEAST 12 INCHES BELOW LOWEST ADJACENT GRADE.
3. ALL FOUNDATION WORK SHALL BE FOUNDED ON FIRM UNDISTURBED NATURAL SOILS OR APPROVED COMPACTED SOILS.
4. ALL SITE SOIL WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF THE SOILS ENGINEER.
5. SPECIAL INSPECTIONS SHALL BE PER SECTION 1705A.6, TITLE 24, PART 2, CCR.
6. SOILS ENGINEER SHALL VERIFY IN WRITING TO THE ENGINEER THAT SITE SOIL WORK COMPLIES WITH ALL OF THE RECOMMENDATIONS AND CONCLUSIONS OF THE SOILS REPORT.
7. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT & TRUE TO LINE.
8. FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE SOILS ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.
9. THE TESTING LAB SHALL SUBMIT COMPACTION REPORTS FOR ALL FILL TO THE ENGINEER BEFORE REQUESTING FOUNDATION INSPECTION. ALL LOOSE SOIL AND FILL DIRT, INCLUDING BACKFILL BEHIND RETAINING WALLS, SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY, OR GREATER AS REQUIRED BY THE SOILS REPORT.
10. BACKFILL FOR ALL RETAINING WALLS SHALL BE NON-EXPANSIVE PERVIOUS MATERIAL APPROVED BY THE SOILS ENGINEER AND SHALL NOT BE PLACED UNTIL CONCRETE RETAINING MEMBERS HAVE BEEN IN PLACE A MINIMUM OF 14 DAYS AND HAVE OBTAINED 75% OF THE DESIGN STRENGTH.
11. PROVIDE TEMPORARY SHORING FOR ALL WALLS RETAINING EARTH, PRIOR TO BACKFILLING.
12. TEMPORARY SHORING FOR ALL RETAINING WALLS REQUIRING PERMANENT STRUCTURAL SUPPORT AT THE TOP OF THE WALL SHALL REMAIN IN PLACE UNTIL SUCH SUPPORTS ARE INSTALLED, AND IN THE CASE OF CONCRETE SUPPORTS, THE SHORING SHALL REMAIN IN PLACE A MINIMUM OF 7 DAYS.
13. OVER-EXCAVATION AND COMPACTION REQUIREMENTS PER SOILS REPORT AND SHALL CONFORM TO SECTION 1803A AND 3304 TITLE 24, PART 2, CCR.

REINFORCED CONCRETE (CBC CHAPTER 19A)

1. CEMENT SHALL CONFORM TO ASTM C150, TYPE II / V.
2. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 AND SECTION 1903A.5, TITLE 24, PART 2, CCR.
3. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
4. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES.
5. CONCRETE SHALL BE STANDARD WEIGHT CONCRETE (145 PCF) AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:

ELEMENT	STRENGTH	AGG	W/C RATIO (MAX)
FOOTINGS..........	3000 PSI	1"	0.57
GRADE BEAMS..........	3000 PSI	1"	0.57
SLAB ON GRADE..........	3000 PSI	1"	0.45
DRILLED PIERS..........	4500 OSI	1"	0.45

6. CONCRETE SHALL BE PROPORTIONED SUCH THAT THE 7 DAY STRENGTHS ARE A MINIMUM OF SEVENTY PERCENT OF THE SPECIFIED 28 DAY STRENGTH FOR ANY CONCRETE CONSTRUCTION REQUIRING SHORING, BRACING OR TO RECEIVE CONSTRUCTION LOADS. ALSO, SLABS ON GRADE SHALL HAVE A COMPRESSION STRENGTH OF 1800 PSI MINIMUM AT 3 DAYS OF SUBJECT TO CONSTRUCTION TRAFFIC.
7. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER AND DSA. ADMIXTURES SHALL COMPLY WITH ASTM C494 & C1017 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
8. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLD-DOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE.
9. CONCRETE CURING SEE SPECIFICATIONS.
10. NO CONDUIT PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB.NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK. EXCEPT FOR LOCAL OFFSETS, MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE THREE DIAMETERS ON CENTER.
11. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER.
12. REFER TO DRAWINGS OF OTHER DISCIPLINES FOR MOLDS, GROOVES, CLIPS, ORNAMENTS, OR GROUNDS REQUIRED TO BE CAST INTO CONCRETE.
13. CONSTRUCTION JOINTS IN ALL FOUNDATIONS, WALLS, SUPPORTED SLABS AND CONCRETE FRAMING BEAMS SHALL NOT BE SPACED FURTHER APART THAN 60 FEET IN LENGTH.
14. LOCATION OF ALL CONSTRUCTION, CONTROL AND WEAKENED PLANE JOINTS NOT SPECIFICALLY INDICATED ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO REINFORCEMENT PLACEMENT.
15. ALL CONSTRUCTION JOINTS IN WALLS OR OTHER ELEMENTS NOT HAVING PREFORMED KEYS, SHALL BE WIRE BRUSHED, AND ROUGHENED TO A MINIMUM AMPLITUDE OF 1/4 INCH, CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACEMENT OF NEW CONCRETE.
16. FOUNDATIONS TO RECEIVE CONCRETE WALLS: ROUGHEN TOPS OF FOOTINGS TO A FULL AMPLITUDE OF 1/4 INCH AND ABRASIVELY CLEAN.
17. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.
18. CONCRETE TESTING SHALL CONFORM TO SECTION 1903A, TITLE 24, PART 2, CCR.

CONCRETE-EXPANSION ANCHORS

1. SPECIAL INSPECTION IS REQUIRED.
2. MATERIALS: (ICC ESR 4266)
   HILTI ANCHORS..........ICC ESR 4266..........KWIK-BOLT TZ2
3. INSTALLATION:

ANCHOR DIA.	ANCHOR TORQUE (CARBON STL)	ANCHOR TORQUE (STAINLESS STL.)	MIN EMBED	NOMINAL EMBED
3/8"	30 ft-lb	30 ft-lb	1 1/2"	1 7/8"
1/2"	50 ft-lb	40 ft-lb	2"	2 1/2"
5/8"	40 ft-lb	60 ft-lb	2 3/4"	3 1/4"
3/4"	110 ft-lb	125 ft-lb	3 1/4"	4"

   - A. SHALL BE IN ACCORDANCE WITH ICC ESR 4266.
   - B. USE CARBIDE-TIPPED DRILL BITS CONFORMING TO ANSI B212.15-1994. DRILL BIT SIZE IS EQUAL TO ANCHOR DIAMETER.
   - C. CLEAN HOLES OF DUST AND DEBRIS USING OIL-FREE COMPRESSED AIR AND A STEEL WIRE BRUSH. HOLE DEPTH TO EXCEED EMBEDMENT DEPTH BY TWO ANCHOR DIAMETERS.
4. DO NOT INSTALL ANCHORS IN CONCRETE THAT IS LESS THAN 7 DAYS OLD. CONCRETE SHALL ATTAIN THE MINIMUM DESIGN STRENGTH PRIOR TO INSTALLATION.
5. PROVIDE STAINLESS STEEL ANCHORS OR MECHANICALLY GALVANIZED ANCHORS (PER ASTM B-695) WHERE ANCHORS ARE USED IN EXTERIOR CONDITIONS.
6. TESTS AND INSPECTIONS SHALL MEET THE REQUIREMENTS OF CBC 1910A.5.
7. ANCHORS SHALL BE USED ONLY WHERE SPECIFICALLY INDICATED ON PLANS AND DETAILS.

GENERAL NOTES

1. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OR DRAWINGS. THESE NOTES TAKE PRECEDENCE OVER ANY OTHER BOOK SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK, AND THE ENGINEER/ ARCHITECT SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
3. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND RESOLVED WITH, THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
4. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
5. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED, BEFORE BEGINNING EXCAVATION.
6. NO PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL BE PLACED IN SLABS, BEAMS, OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
7. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE (CBC).
8. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
9. RETAIN A CA REGISTERED CIVIL ENGINEER TO DESIGN ALL TEMPORARY BRACING, SHORING, AND SUPPORT REQUIRED DURING CONSTRUCTION.
10. INCLUDE ENGINEERING FEES, ENGINEERING DESIGN TIME AND DSA DEPARTMENT APPROVAL TIME IN THE COST OF PROPOSED MATERIAL ALTERNATES. CONTACT ENGINEER FOR FEE AMOUNT. SUBMIT MATERIAL ALTERNATE FOR REVIEW BEFORE CONSTRUCTION.
11. STRUCTURAL CAD DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS UNLESS AN AGREEMENT BETWEEN THE STRUCTURAL ENGINEER AND CONTRACTOR HAS BEEN ESTABLISHED ACCORDING TO CASE DOCUMENT 11-1996. CONTACT ENGINEER FOR FEE AMOUNT.
12. ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS (CCD) SHALL BE SUBMITTED TO DSA FOR APPROVAL.

DESIGN CRITERIA

1. VERTICAL LOADS:
   - A. DEAD LOADS:
     BLDG. C ROOF (FLAT).......... 18 PSF
     BLDG. C ROOF (SLOPED).......... 17 PSF
     BLDG. C ROOF (OVERHANGS).......... 22 PSF
     ENTRY FEATURE ROOF.......... 21 PSF
     BOOKROOM ROOF..........16 PSF
   - B. B. LIVE LOADS: REDUCIBLE UNLESS NOTES OTHERWISE
     ROOF (FLAT).......... 20 PSF
     ROOF (SLOPED).......... 20 PSF
2. LATERAL LOADS:
   - A. WIND: PER ACSE 7-16 (CBC 2019)
     BASIC WIND SPEED-3 SECOND GUST (V3s).......... 103 MPH
     TOPOGRAPHIC FACTOR (Kzt).......... 1.0
     RISK CATEGORY.......... III
     EXPOSURE CATEGORY.......... C
     ENCLOSURE CLASSIFICATION.......... ENCLOSED
   - B. SEISMIC: PER ASCE 7-16 (CBC 2019)
     RISK CATEGORY.......... III
     SEISMIC IMPORTANCE FACTOR (IE).......... 1.25
     RHO (N-S).......... 1.0
     RHO (E-W).......... 1.0
     MAPPED SPECTRAL RESPONSE ACCELERATIONS:
     SS= 0.899 G
     S1= 0.316 G
     SITE CLASS:.......... C
     SPECTRAL RESPONSE COEFFICIENTS:
     Sds= 0.719 G
     Sd1= 0.316 G
     SEISMIC DESIGN CATEGORY:.......... D
     SITE COEFFICIENTS:
     Fa= 1.2
     Fv = 1.5
1. BUILDING C, P104 & BOOKROOM
   SEISMIC FORCE RESISTING SYSTEM:
   LIGHT FRAMED WOOD SHEAR WALLS
   RESPONSE MODIFICATION FACTOR:.......... R=6.5
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
   SEISMIC RESPONSE COEFFICIENT (Cs)..........0.138
   V= Cs* W = 0.138 W (STRENGTH)
   V= Cs* W / 1.4 = 0.099 W (ASD)
2. ENTRY STRUCTURE SEISMIC FORCE RESISTING SYSTEM:
   ORDINARY STEEL CANTILEVERED COLUMNS
   RESPONSE MODIFICATION FACTOR.......... R=1.25
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
   SEISMIC RESPONSE COEFFICIENT (Cs)..........0.719
   V= 0.719W (STRENGTH)
   V= 0.514W (ASD)

BUILDING C REHABILITATION

BUILDING C HAS BEEN VERIFIED FOR CONFORMANCE TO 2019 CALIFORNIA BUILDING CODE REQUIREMENTS UNDER THIS SCOPE OF WORK. SEE DESIGN CRITERIA FOR VERTICAL & LATERAL LOADS.

REINFORCING STEEL

1. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60 DEFORMED BARS.
2. BAR REINFORCEMENT THAT IS TO BE WELDED SHALL BE ASTM A706, GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAPPED 12 INCHES MINIMUM OR LARGEST OF ONE SPACING OF CROSS WIRES PLUS 2", WHICHEVER IS LESS.
4. MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS SPECIFIED IN THE DRAWINGS.
5. VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL UNLESS OTHERWISE NOTED ON PLANS.
6. REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
7. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM CONCRETE COVER FOR CAST IN PLACE CONCRETE:
   - A. CONCRETE DEPOSITED AGAINST EARTH: 3"
   - B. CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS: 2" #5 BAR AND SMALLER: 1-1/2"
   - C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS AND JOISTS #14 AND #18 BARS: 1-1/2" #11 BAR AND SMALLER: 3/4" BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1-1/2"
8. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLDOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE OR GROUT.
9. DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING UNLESS OTHERWISE NOTED ON PLANS.
10. FURNISH #3 SPACER TIES AT APPROXIMATELY 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING IN PLACE.
11. WELDING OF REINFORCING BARS SHALL CONFORM TO THE LATEST EDITION OF AWS D1.4 AND CBC SECTION 1903A.8. E80XX ELECTRODES SHALL BE USED FOR BAR TO BAR & E70XX ELECTRODES SHALL BE USED FOR REINFORCING TO STRUCTURAL STEEL.
12. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY
ARCHITECTURE
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1053 TENTH AVENUE
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SDVOSB

No. 6773

WISEMAN + ROHY
STRUCTURAL ENGINEERS

Mountain Empire Unified
School District

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 21032.00
DRAWN BY: Team
CHECKED BY: DM

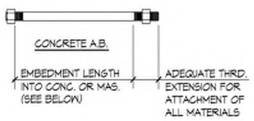
STRUCTURAL NOTES

S1.1

2/18/2022 8:36:11 AM

TYP. TRENCH SLAB INFILL

6



BOLT DIA "D"	MINIMUM EMBEDMENT U.O.N.	
	HORIZONTAL ANCHOR BOLTS	VERTICAL ANCHOR BOLTS
1/2"	5"	7"
5/8"	5"	7"
3/4"	6"	7"
7/8"	7"	8"
1"	8"	9"
1 1/8"	9"	10"

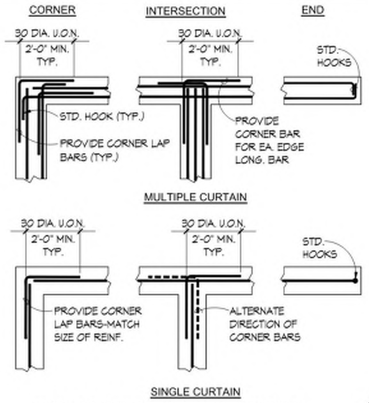
TYPICAL ANCHOR BOLT

2

REBAR LAP SCHEDULE (CONCRETE)		
BAR SIZE	f'c=3000 PSI	
	TOP BARS (IN.)	OTHER BARS (IN.)
#3	28	22
#4	37	29
#5	47	36
#6	56	43
#7	81	63
#8	93	72
#9	105	81
#10	118	91
#11	131	101

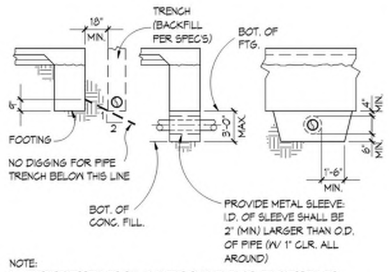
NOTES:
1. LAP SPLICE LENGTHS FOR GRADE 60 REINFORCING BAR.
2. LAP SPLICE LENGTHS FOR NORMAL WEIGHT CONCRETE
3. LAP SPLICE LENGTHS FOR CLASS B LAPS = 1.3ld.
4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
5. LAP SPLICE LENGTHS ARE BASED ON THE TYPE OF STRUCTURAL ELEMENT AS FOLLOWS:
   BEAMS OR COLUMNS: COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 2.0db.
   ALL OTHERS: COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 3.0db.

3



TYP. CONCRETE INTERSECTIONS

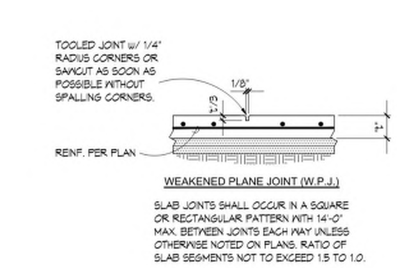
7



NOTE:
1. WHERE BOTTOM OF FILL IS MORE THAN 3'-0" BELOW BOTTOM OF FOOTING, STEP FOOTING DOWN PER TYPICAL FOOTING STEP DETAIL.
2. PLACE CONCRETE FILL AROUND SLEEVES BEFORE POURING FOOTING PADS. FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
3. NO PIPES SHALL BE PLACED IN FOOTINGS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS

TYP. FOOTING AT PIPE OR CONDUIT

8



SLAB JOINTS SHALL OCCUR IN A SQUARE OR RECTANGULAR PATTERN WITH 14'-0" MAX. BETWEEN JOINTS EACH WAY UNLESS OTHERWISE NOTED ON PLANS. RATIO OF SLAB SEGMENTS NOT TO EXCEED 1.5 TO 1.0.

SLAB TO BE POURED IN A CHECKERBOARD PATTERN AS FOLLOWS:
- EACH SEGMENT RATIO NOT OVER 1.5 TO 1.0.
- EACH SEGMENT NOT OVER 16,000 SQ. FT.
- MINIMUM 3 DAY WAIT BETWEEN ADJACENT POURS.

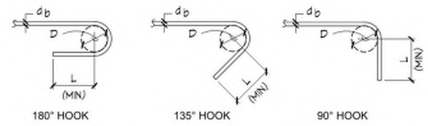
SLAB-ON-GRADE JOINTS & POUR PROCEDURE

5

BARS OTHER THAN STIRRUPS, TIES, HOOPS & CROSS-TIES				
BAR SIZE	"D"	180 deg "L"	135 deg "L"	90 deg "L"
# 3	2 1/4	2 1/2	-	4 1/2
# 4	3	2 1/2	-	6
# 5	3 3/4	2 1/2	-	7 1/2
# 6	4 1/2	3	-	9
# 7	5 1/4	3 1/2	-	10 1/2
# 8	6	4	-	12
# 9	9 1/2	4 1/2	-	13 1/2
# 10	10 3/4	5 1/4	-	15 1/4
# 11	12	5 3/4	-	17
# 14	18 1/4	7	-	21
# 18	24	9	-	27
STIRRUPS, TIES, HOOPS & CROSS-TIES				
# 3	1 1/2	-	4	4
# 4	2	-	4	4
# 5	2 1/2[1]	-	4	4
# 6	4 1/2	-	4 1/2	9
# 7	5 1/4	-	5 1/4	10 1/2
# 8	6	-	6	12

(1) USE 3 3/4" IN CONC. BLK. CONSTRUCTION

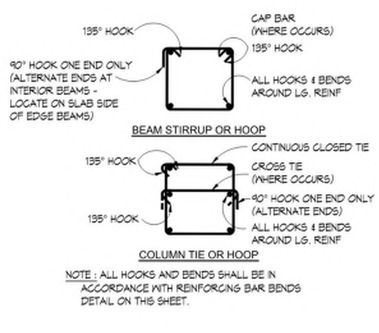
NOTE : ALL DIMENSIONS GIVEN ARE IN INCHES.



LEGEND FOR REINF. BENDS (NOT SHOWN TO SCALE)
- INDICATES 90 deg BEND IN PLANE OF DRAWING
- INDICATES 90 deg BEND PERPENDICULAR TO PLANE OF DRAWING
- INDICATES 135 deg BEND IN PLANE OF DRAWING
- INDICATES 180 deg BEND IN PLANE OF DRAWING
- INDICATES 135 deg OR 180 deg BEND PERPENDICULAR TO PLANE OF DRAWING
- INDICATES OFFSET IN PLANE OF DRAWING

REINFORCING BAR BENDS & HOOKS

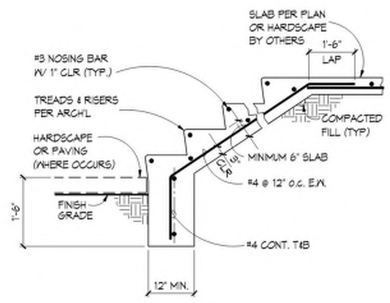
10



NOTE : ALL HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH REINFORCING BAR BENDS DETAIL ON THIS SHEET.

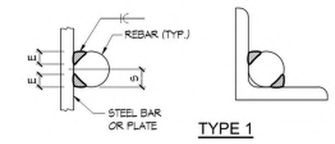
TYP. STIRRUP, TIE, HOOP OR CROSS TIE

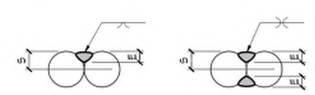
12



TYPICAL STEPS-ON-GRADE

13



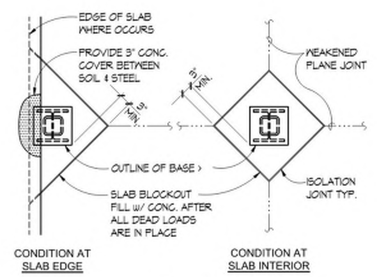


MINIMUM WELD SIZES & LENGTHS						
BAR SIZE	TYPE 1 WELD SIZE	LENGTH WELD 1-SIDE	LENGTH WELD 2-SIDES	TYPE 2 WELD SIZE	LENGTH WELD 1-SIDE	LENGTH WELD 2-SIDES
#3	1/8	4	3	1/8	3	2
#4	1/8	5	3	3/16	4	2
#5	1/8	6	3	3/16	4	2
#6	3/16	7	4	1/4	5	3
#7	3/16	9	5	5/16	6	3
#8	1/4	10	5	5/16	7	4
#9	1/4	11	6	3/8	7	4
#10	1/4	12	6	3/8	8	4

1. EFFECTIVE THROAT (E)=0.4xS FOR TYPE 1 WELDS.
2. EFFECTIVE THROAT (E)=0.6xS FOR TYPE 2 WELDS.
3. WELDING OF REINFORCING BARS SHALL CONFORM TO AWS D1.4.
4. E70XX ELECTRODES SHALL BE USED. FOR ALL TYPE 1 WELDS (REINF. TO STRUCTURAL STEEL)
5. E80XX ELECTRODES SHALL BE USED FOR ALL TYPE 2 WELDS (REINF. TO REINF.)
6. REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A706 WITH CARBON EQUIVALENT (C.E. = 0.55%).
7. REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT IS PERFORMED. THE CARBON EQUIVALENT OF REINFORCING BAR SHALL BE CALCULATED PER AWS D1.4 (C.E. = 0.55%) USING THE CHEMICAL COMPOSITION AS SHOWN IN THE MILL TEST REPORT.
8. IF MILL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL BE MADE OF REINFORCING BARS REPRESENTATIVE OF THE BARS TO BE WELDED OR THE BARS SHALL BE PREHEATED ACCORDING TO AWS D1.4.
9. COPY OF THE MILL TEST REPORT SHALL BE SENT TO THE STRUCTURAL ENGINEER'S OFFICE.

TYPICAL REINFORCING WELDING

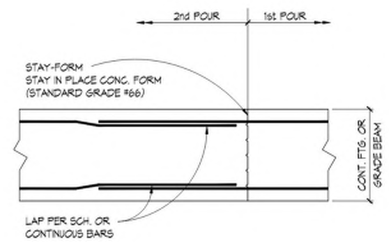
15



PLAN

SLAB BLOCKOUT

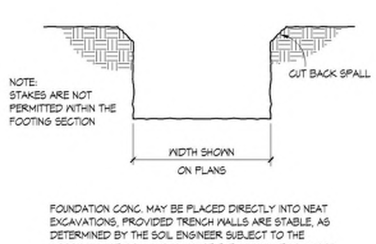
16



CONT. FTG. OR GRADE BEAM COLD JT. (BULKHEAD)

(JOINT SHALL OCCUR @ MID-SPAN BETWEEN COLUMNS AND SHALL BE APPROVED BY THE STRUCTURAL ENGINEER)

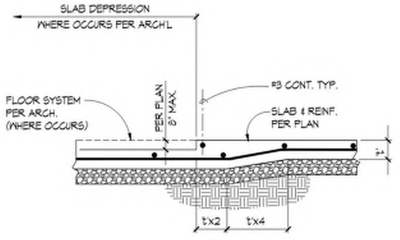
18



FOUNDATION CONC. MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS, PROVIDED TRENCH WALLS ARE STABLE, AS DETERMINED BY THE SOIL ENGINEER SUBJECT TO THE APPROVAL OF DSA. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE. FORMWORK SPECIFICATIONS APPLY.

MANDATORY MINIMUM FORMWORK-DSA

19



TYP. DEPRESSION IN SLAB-ON-GRADE

20

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WISEMAN + ROHY STRUCTURAL ENGINEERS

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

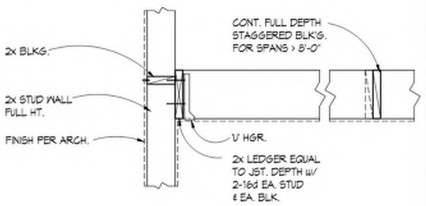
DAVY PROJECT No: 21032.00
DRAWN BY: Team
CHECKED BY: DM

TYPICAL DETAILS

S1.2

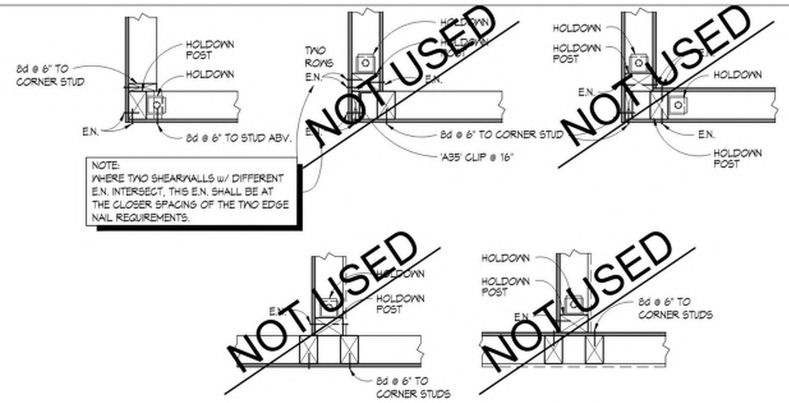
2/18/2022 8:36:11 AM

CEILING JOIST SCHEDULE		
MAX. SPAN	SIZE	SPACING
8'-0"	2x4	@ 16"
13'-0"	2x6	@ 16"
17'-0"	2x8	@ 16"



TYPICAL CEILING JOIST

1



TYPICAL SHEARWALL INTERSECTIONS

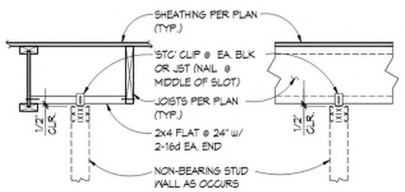
3

3/8" WOOD STRUCTURAL PANEL SCHEDULE									
MARK	SHEATHING (1)	NAIL SIZE (2)	EDGE NAIL SPACING	FIELD NAIL SPACING	SILL TO WOOD CONN. (PRE-DRILL)	SILL TO CONC. CONN.	SHEAR WALL TYPE(3)	SHEAR CAPACITY (PLF) (5)	SIMPSON SDWS 22600 PER EA. SHEARWALL BLOCK @ 2x LEDGERS (6)
A1	3/8 STR I O.S.	8d	6"	12"	1/2"XT" L.S. @ 16"	5/8" DIA AB @ 48"	I	280	1
B1	3/8 STR I O.S.	8d	4" STGR(4)	12"	1/2"XT" L.S. @ 16"	5/8" DIA AB @ 48"	II	430	1
C1	3/8 STR I O.S.	8d	3" STGR(4)	12"	1/2"XT" L.S. @ 12"	5/8" DIA AB @ 32"	II	550	2
D1	3/8 STR I O.S.	8d	2" STGR(4)	12"	1/2"XT" L.S. @ 8"	5/8" DIA AB @ 24"	II	730	2
B2	3/8 STR I B.S.	8d	4" STGR(4)	12"	1/2"XT" L.S. @ 8"	5/8" DIA AB @ 24"	III	860	2 (7)
C2	3/8 STR I B.S.	8d	3" STGR(4)	12"	1/2"XT" L.S. @ 6"	5/8" DIA AB @ 16"	III	1100	2 (7)
D2	3/8 STR I B.S.	8d	2" STGR(4)	12"	1/2"XT" L.S. @ 4"	5/8" DIA AB @ 12"	III	1460	2 (7)

SHEARWALL NOTES

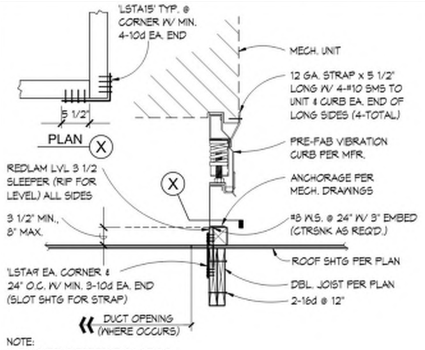
1. O.S. INDICATES SHEATHING ON ONE SIDE OF WALL AS SHOWN ON PLANS. B.S. INDICATES SHEATHING ON BOTH SIDES OF WALL. L.S. INDICATES LAG SCREWS.
2. USE COMMON WIRE NAILS. (.131" DIA. x 2 1/2")
3. SEE DETAILS ON THIS SHEET FOR SHEARWALL ASSEMBLIES BASED ON SHEARWALL TYPE.
4. FOR STAGGERED EDGE NAILING REQUIREMENTS SEE DETAIL ON THIS SHEET.
5. BASED ON 2019 CBC (INCLUDES ALL ALLOWABLE INCREASES) AND 2018 NDS & 2015 SDPWS

5



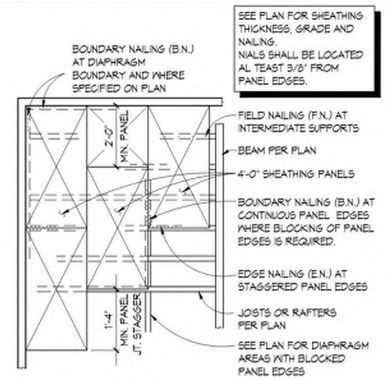
TYP. NON-BEARING WOOD WALL ATTACH

6



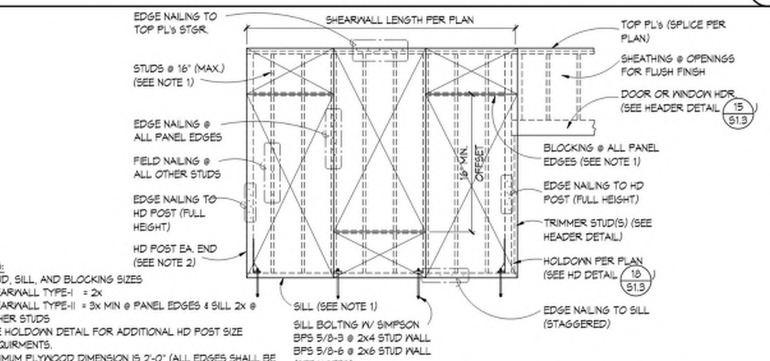
TYPICAL VIBRATION ISOLATED A/C UNIT ANCHORAGE

7



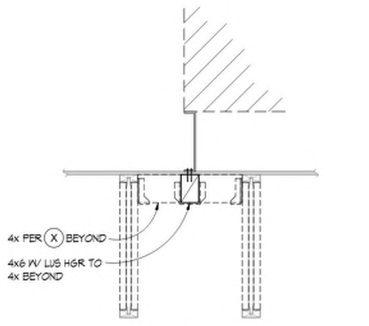
TYPICAL ROOF DIAPHRAGM ASSEMBLY

8

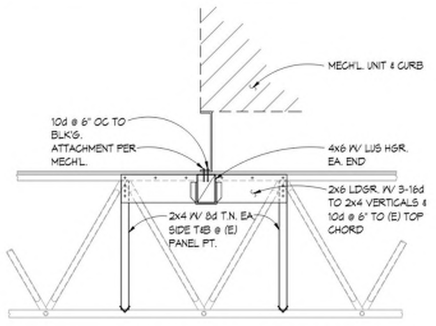


TYPICAL SHEARWALL ASSEMBLY W/ SHEATHING ON ONE SIDE
(SHEARWALL TYPES I & II)

10



PARALLEL TO (E) JOISTS (Y)



PERPENDICULAR TO (E) JOISTS (X)

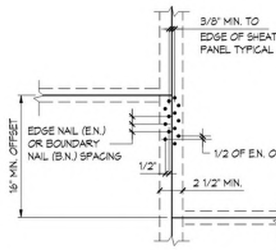
MECHANICAL UNIT ANCHORAGE

12

ROOF DIAPHRAGM NAILING SCHEDULE (3) (5) (6) (8)							
MARK	(4) NAILS	B. N.(1)	E. N.	F. N.	MN. FRAMING SIZE (8)	BLOCKED (6)	CAPACITY (PLF)
1	10d	6"	6"	12"	2x	NO(7)	215
2	10d	6"	6"	12"	2x	YES	320
3	10d	4"	6"	12"	2x	YES	425
4	10d	4"	6"	12"	3x	YES	480
5	10d	2 1/2" STGR	4"	12"	2x	YES	640
6	10d	2 1/2" STGR	4"	12"	3x	YES	720
7	10d	2" STGR (2)	3" STGR (2)	12"	3x	YES	820

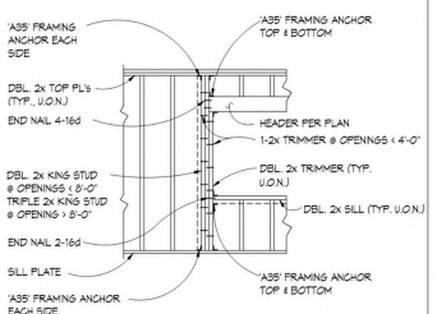
NOTES:
1. INCLUDES CONTINUOUS PANEL EDGES.
2. WHEN NAIL SPACING = 3" OR LESS, MEMBER SHALL BE 3x MIN. w/ NAILS STAGGERED PER DETAIL 14/S1.3
3. MINIMUM NAIL EDGE DISTANCE = 3/8" TO EDGE OF SHEET OR FRAMING.
4. ALL NAILS SHALL BE COMMON WIRE 6
5. FOR SHEATHING LAYOUT SEE DETAIL S1.3
6. BLOCKING WIDTH SHALL MEET 'MIN. FRAMING SIZE' REQUIREMENTS. BLOCKING SHALL BE 2x NOMINAL IN DEPTH.
7. ONE 'PSCA' SHEATHING CLIP SHALL BE USED MIDWAY BETWEEN EACH SUPPORT AT UNBLOCKED SHEATHING EDGES.
8. MINIMUM FRAMING SIZE SHALL BE 2x MIN. FOR MEMBERS NOT LOCATED AT PANEL EDGES (U.O.N.).
9. SHEATHING SHALL BE STRUCT-1, 15/32" (1/2") MIN. MATERIAL THICKNESS.

13



SINGLE ROW STAGGERED EDGE OR BOUNDARY NAILING

14



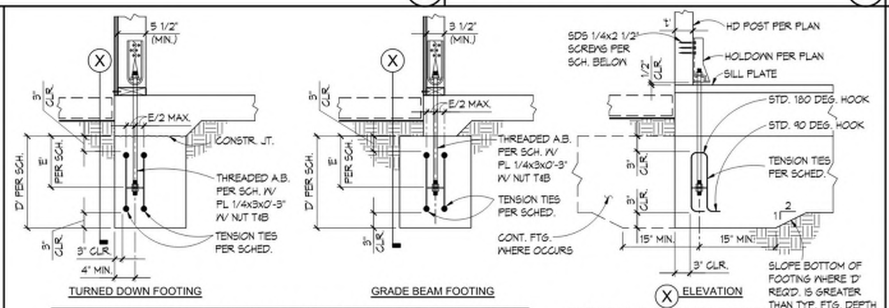
TYPICAL FRAMING @ 2x STUD WALL

15

STUD SIZE SCHEDULE	
MAX. HEIGHT	STUD SIZE
13'-0	2x4 @ 16"
18'-0	2x6 @ 16"
22'-0	2x8 @ 16"

TYP. NON-STRUCTURAL PARTITION STUD WALLS

16

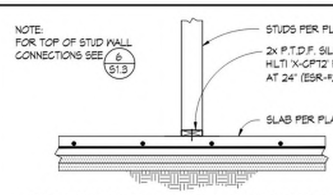


MARK	MIN. HD POST t (3)	# OF SDS 1/4" x 2 1/2" SCREWS	ANCHOR ROD (F1554 GR105)	FOOTING THICKNESS 'D'	ANCHOR BOLT EMBED. 'E'	ALLOW. LOAD (ASD)	TENSION TIES REQ'D.
HDU2	2-2x OR 4x	6	5/8" DIA.	1'-6"	10"	2460#	2-#3
HDU4	2-2x OR 4x	10	5/8" DIA.	1'-6"	10"	3652#	2-#3
HDU5	2-2x OR 4x	14	5/8" DIA.	1'-6"	10"	4516#	2-#3
HDU8	4x	20	7/8" DIA.	1'-10"	12"	5412#	2-#4
HDU8	3-2x OR 6x	20	7/8" DIA.	1'-10"	12"	6246#	2-#4
HDU11	6x	30	1" DIA.	1'-10"	15"	7468#	2-#4
HDU14	6x6	36	1" DIA.	2'-2"	15"	11558#	2-#5

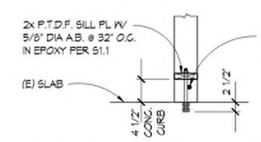
TYPICAL 'HDU' HOLDOWN

1. ALL HOLDOWN ANCHOR BOLTS SHALL BE SECURELY FASTENED IN PLACE PRIOR TO PLACING CONCRETE.
2. PROVIDE 3" COVER AT EARTH FORMED SURFACES, AT ALL HD. A.B.'S.
3. CONNECT 2-2x POSTS TOGETHER WITH 16-10d NAILS EQUALLY SPACED.
4. ALLOWABLE LOADS REDUCED TO 80% OF THE LISTED VALUES PER DSA IR A-5.

18

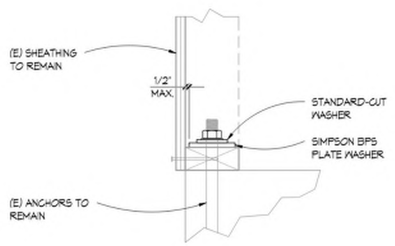


TYP. NON-BEARING NON-SHEAR PARTITION (A) ATTACHMENT TO SLAB



NON-BEARING, NON-SHEAR PARTITION (B) ATTACHMENT W/ CURB @ EXISTING SLAB

19



NEW PLATE WASHER INSTALLATION

20

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DATE: 10/25/2022

DAVY ARCHITECTURE
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STRUCTURAL ENGINEERS

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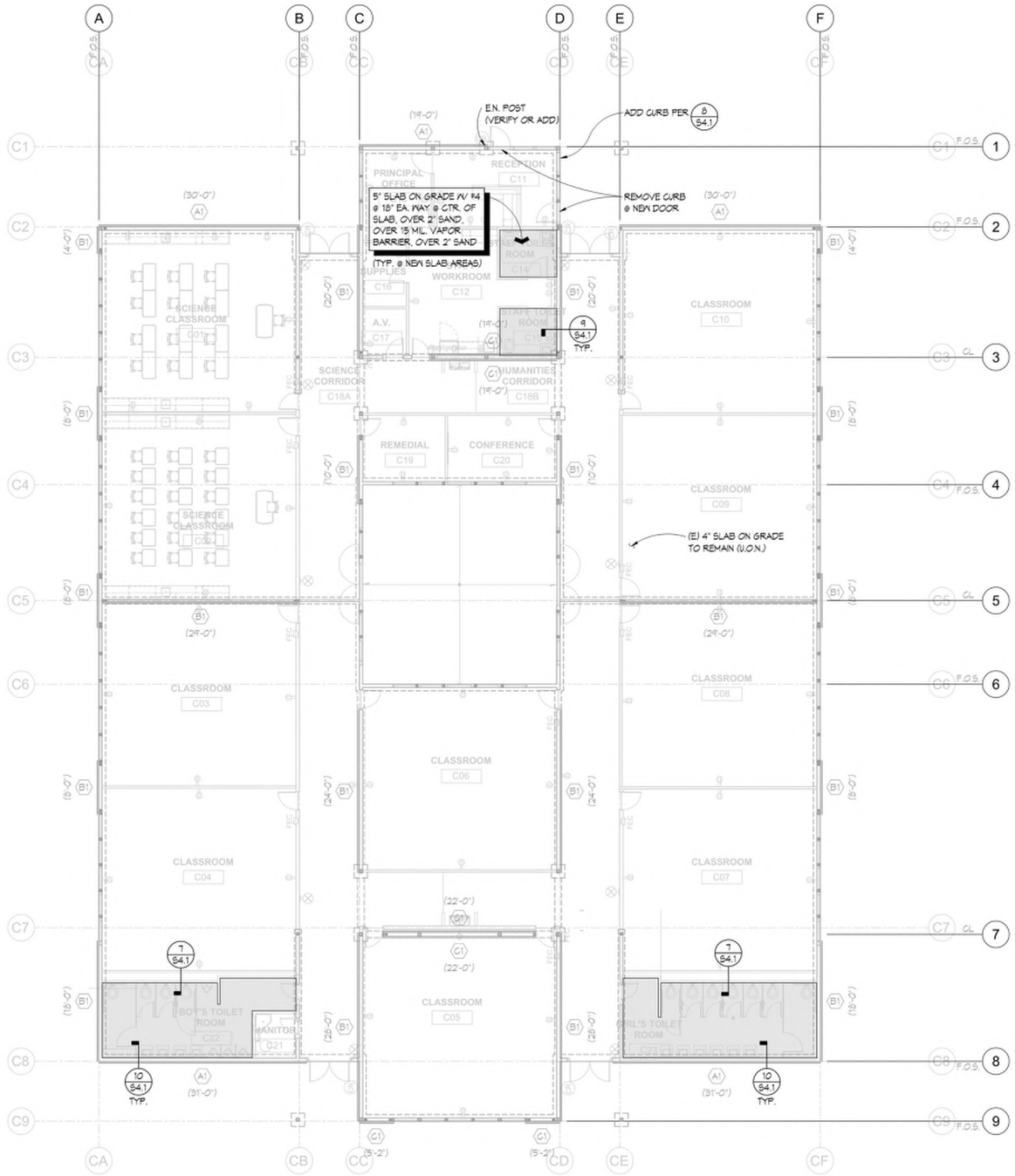
DAVY PROJECT No: 21032.00
DRAWN BY: Team
CHECKED BY: DM

TYPICAL DETAILS

S1.3

2/18/2022 8:36:11 AM



FOUNDATION PLAN NOTES

1. SEE GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S1.1 THRU S1.3. THESE NOTES AND DETAILS SHALL BE USED WHERE APPLICABLE WHETHER SPECIFICALLY REFERENCED OR NOT.
2. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES WITH THE STRUCTURAL REQUIREMENTS INDICATED. REFER TO CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
3. TOP OF SLAB-ON-GRADE IS THE NOMINAL FINISH FLOOR LINE.
4. SLAB-ON-GRADE CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACEMENT OF CONCRETE.
5. FOR NATURE AND EXTENT OF DRAINS, SUMPS, EXTERIOR HARDSCAPE, ETC., REFER TO OTHER DRAWINGS.
6. FOR SIZE AND LOCATION OF DEPRESSED SLABS, CURBS, AND SLAB OPENINGS, REFER TO ARCHITECTURAL DRAWINGS.
7. FOR ITEMS EMBEDDED INTO CONCRETE SLABS AND WALLS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
8. ALL WOOD FRAME STRUCTURAL WALLS ARE 2x6 @ 16" O.C. STUD WALLS, UNLESS OTHERWISE NOTED ON PLANS, DETAILS, OR SHEARWALL SCHEDULE.
9. FOR DIMENSIONS, EXTENT, AND NATURE OF ALL WALLS, REFER TO ARCHITECTURAL DRAWINGS.
10. SEE DETAIL 6/S1.2 FOR SLAB TRENCH REPAIR AS REQUIRED.

FOUNDATION PLAN LEGEND

- 4x6 — WOOD POST SIZE. MARK IS INDICATED AT THE BASE OF THE POST.
- HD-2 — SIMPSON HOLDOWN ANCHOR SIZE AT THIS LEVEL PER DETAIL 18/S1.3. HOLDOWN SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.
- T.O.F. — TOP OF FOOTING ELEVATION AT THE LOCATION SHOWN.
- A1 (X) — SHEARWALL PER SCHEDULE 5/S1.3. SEE DETAILS ON SHEET S1.3 FOR TYP. SHEARWALL ASSEMBLY. (X) INDICATES MINIMUM SHEARWALL LENGTH FROM EDGE TO EDGE OF PLYWOOD.
- INDICATES NEW SLAB & FOOTING.
- SLAB-ON-GRADE JOINT PER DETAIL 5/S1.2
- A1 (X) — INDICATES EXISTING SHEARWALL TO REMAIN

ALL EXISTING SHEARWALL SILL PLATE WASHERS ARE TO BE REPLACED W/ SIMPSON BPS, SEE 10/S1.3 & 20/S1.3 FOR SIZE & INSTALLATION REQUIREMENTS

BUILDING C EXISTING LATERAL SYSTEM HAS BEEN VERIFIED FOR CONFORMANCE TO 2019 CBC FORCES WITHOUT ANY SEISMIC REHABILITATION UPGRADES REQUIRED EXCEPT REPLACING ANCHOR BOLT PLATE WASHERS PER 2019 CBC SECTION 2308.3.1.1.

FOUNDATION PLAN-BLDG C

SCALE: 1/8" = 1'-0"

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CHECKED BY: DM

FOUNDATION PLAN BUILDING C

S2.1

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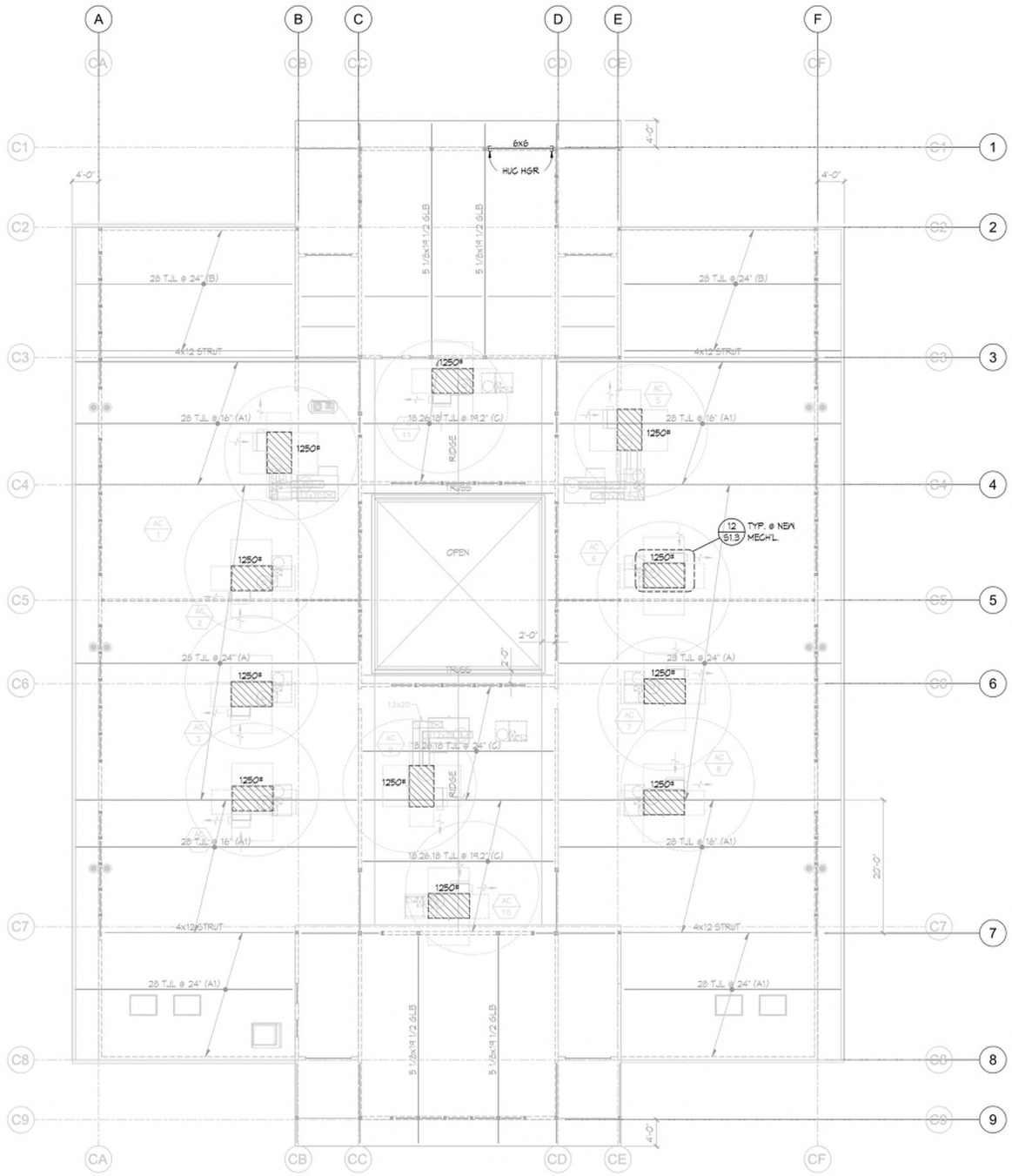

ROOF FRAMING PLAN NOTES

1. SEE GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S1.1 THRU S1.3. THESE NOTES AND DETAILS SHALL BE USED WHERE APPLICABLE WHETHER SPECIFICALLY REFERENCED OR NOT.
2. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES WITH THE STRUCTURAL REQUIREMENTS INDICATED. REFER TO CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
3. FOR SIZE AND LOCATION OF ROOF OPENINGS FOR PIPES AND DUCTS, REFER TO MECHANICAL AND PLUMBING DRAWINGS.
4. FOR TOP OF SHEATHING AND TOP OF PARAPET ELEVATIONS NOT NOTED, REFER TO ARCHITECTURAL DRAWINGS.
5. FOR DIMENSIONS, EXTENT, AND NATURE OF ALL WALLS, REFER TO ARCHITECTURAL DRAWINGS.
6. SIZE AND LOCATION OF ALL MECHANICAL EQUIPMENT TO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.
7. WHEN HARDWARE THAT REQUIRE 10dx1 1/2" NAILS ARE INSTALLED OVER SHEATHING, THE LENGTH OF NAILS USED SHALL BE INCREASED BY THE THICKNESS OF THE SHEATHING.

ROOF FRAMING PLAN LEGEND

- FRAMING MEMBER BEARING ON TOP OF SUPPORT.
- FRAMING MEMBER INSTALLED FLUSH (IN HANGER) AT ITS SUPPORT.
- HEADER MEMBER. INSTALL MEMBER AT HEAD OF OPENING IN WALL BELOW. SEE DETAIL 15 / S1.3
- BEAM MEMBER INSTALLED DIRECTLY BELOW SHEATHING, U.O.N.
- 500# (ABV.) / 500# (BLW) — APPROXIMATE SIZE, LOCATION, AND ASSUMED MAXIMUM WEIGHT OF MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION OF EQUIPMENT WITH MECHANICAL DRAWINGS. WEIGHT INDICATED SHALL NOT BE EXCEEDED NOR UNIT RELOCATED WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

ROOF FRAMING PLAN-BLDG C

SCALE: 1/8" = 1'-0"

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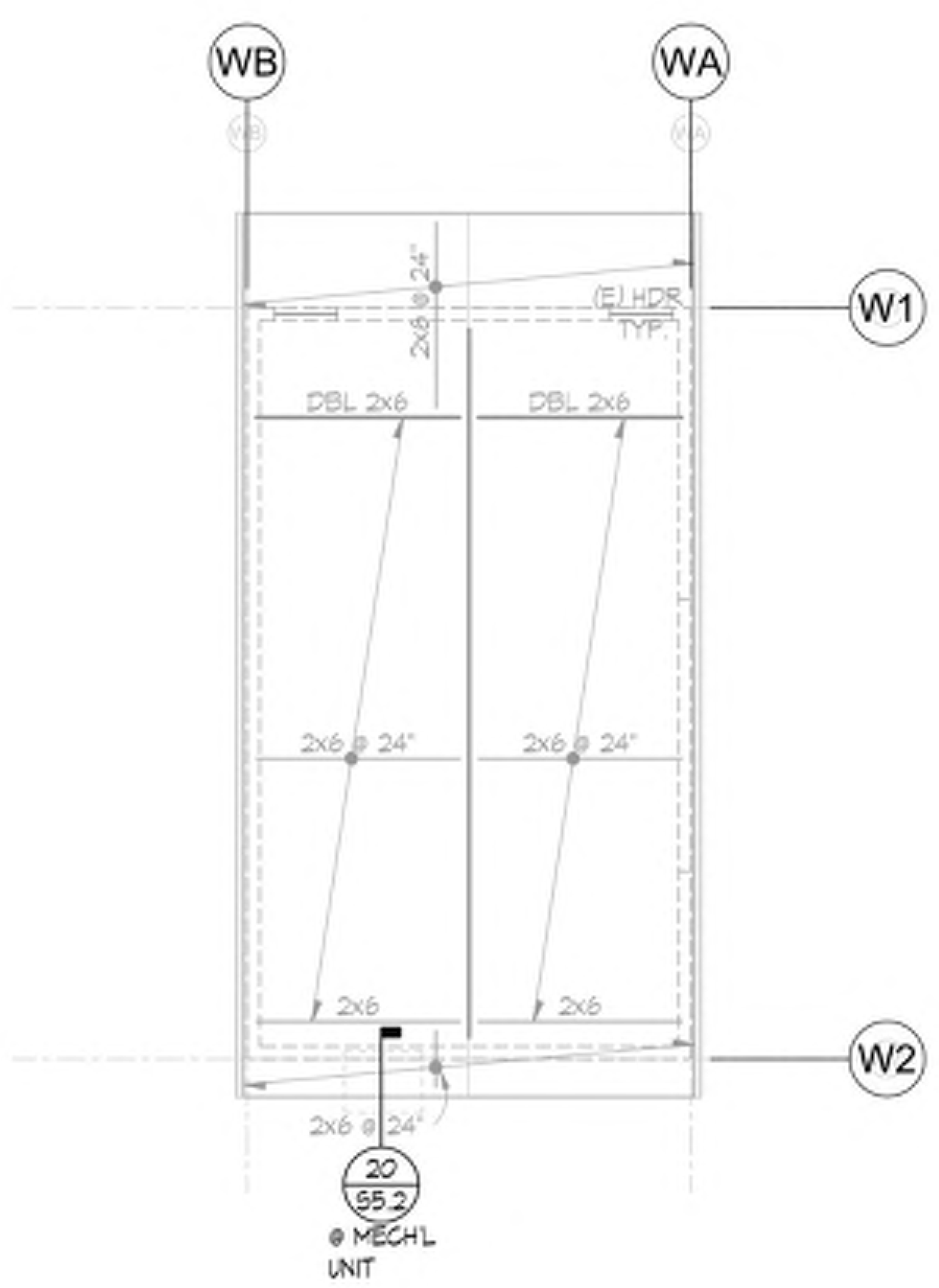
DAVY PROJECT No:	21032.00
DRAWN BY:	Team
CHECKED BY:	DM

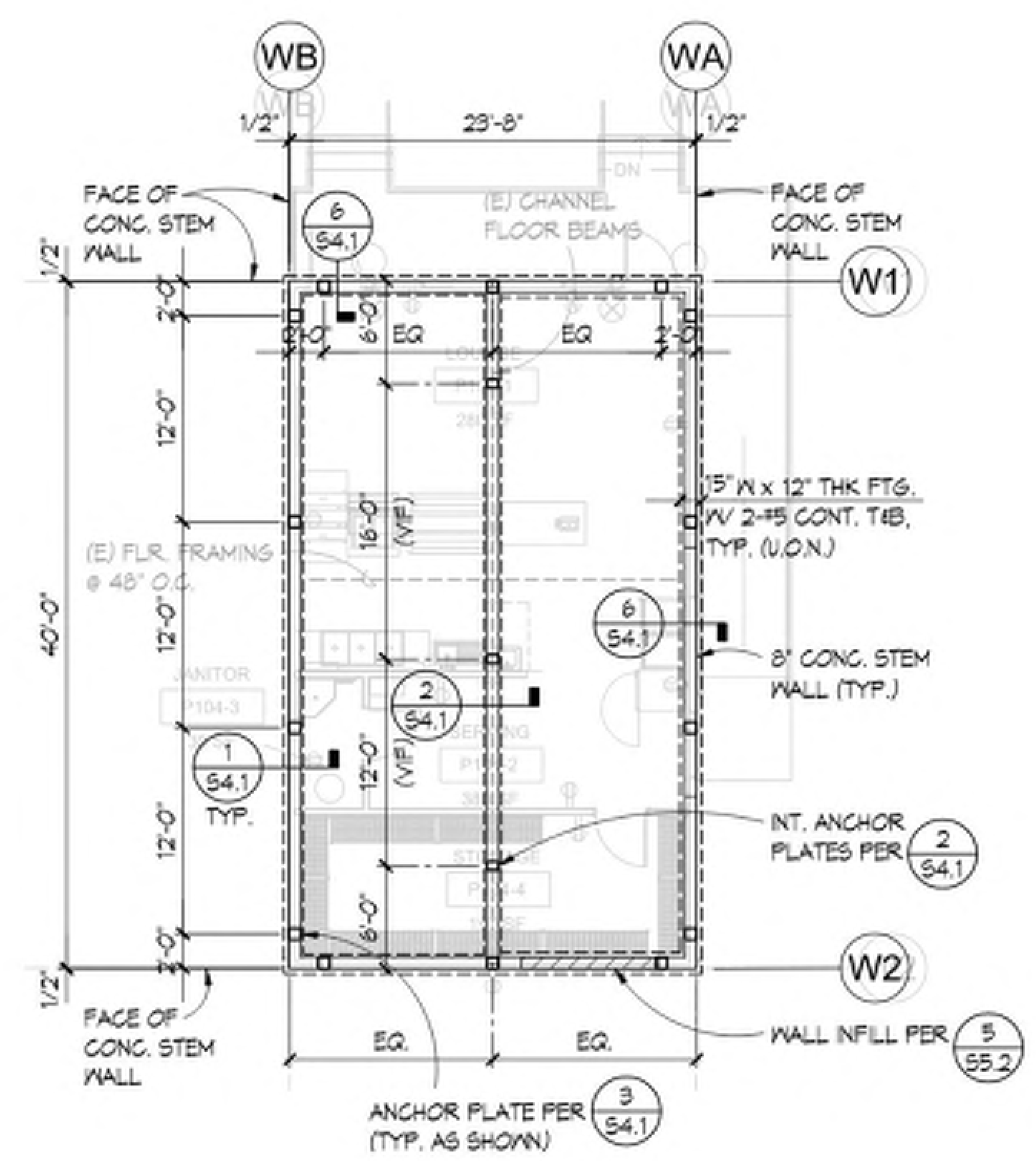
ROOF FRAMING PLAN BUILDING C

S2.2

2/15/2022 8:36:11 AM



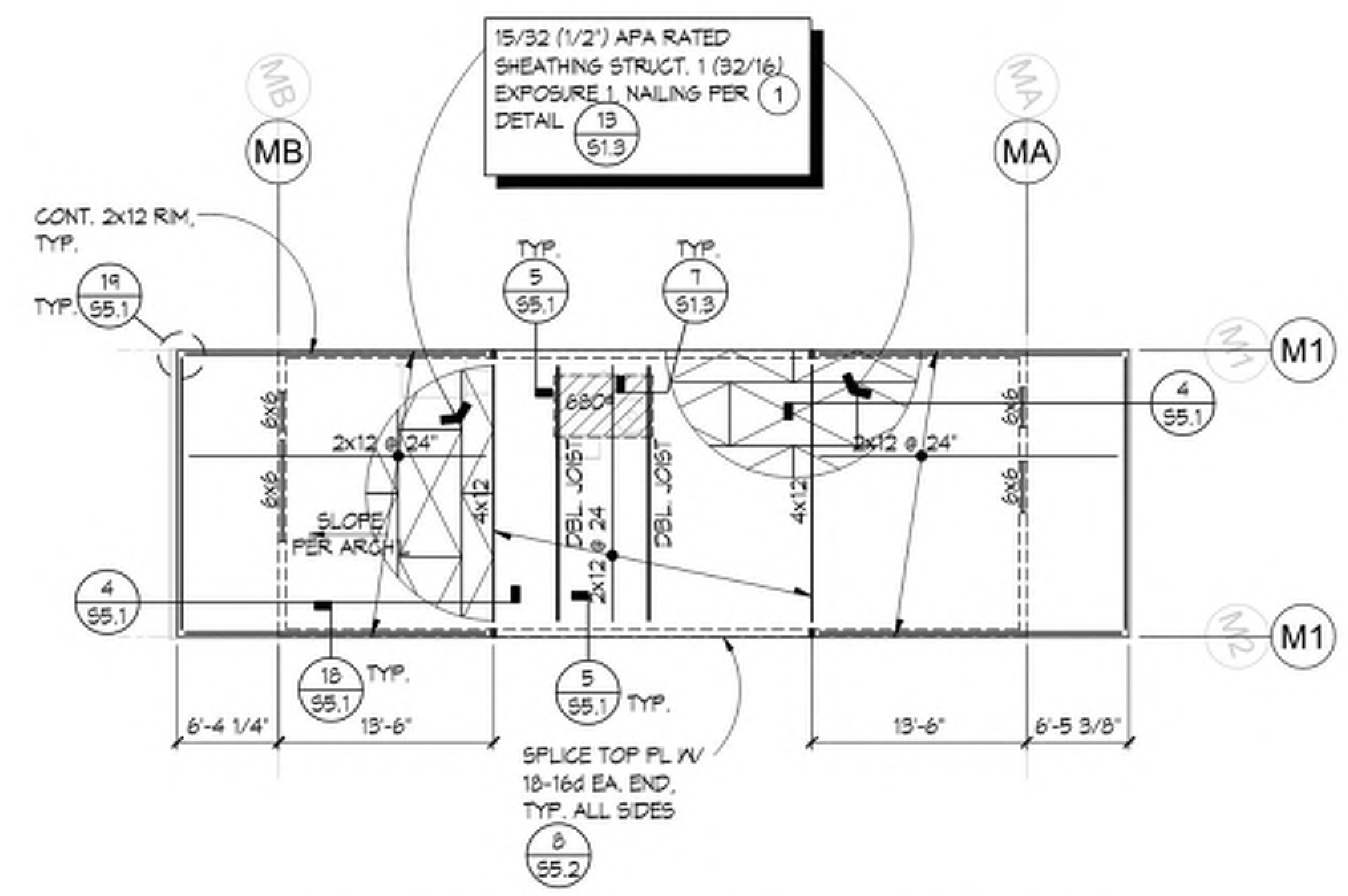
ROOF FRAMING PLAN BLDG P104
SCALE: 1/8" = 1'-0"



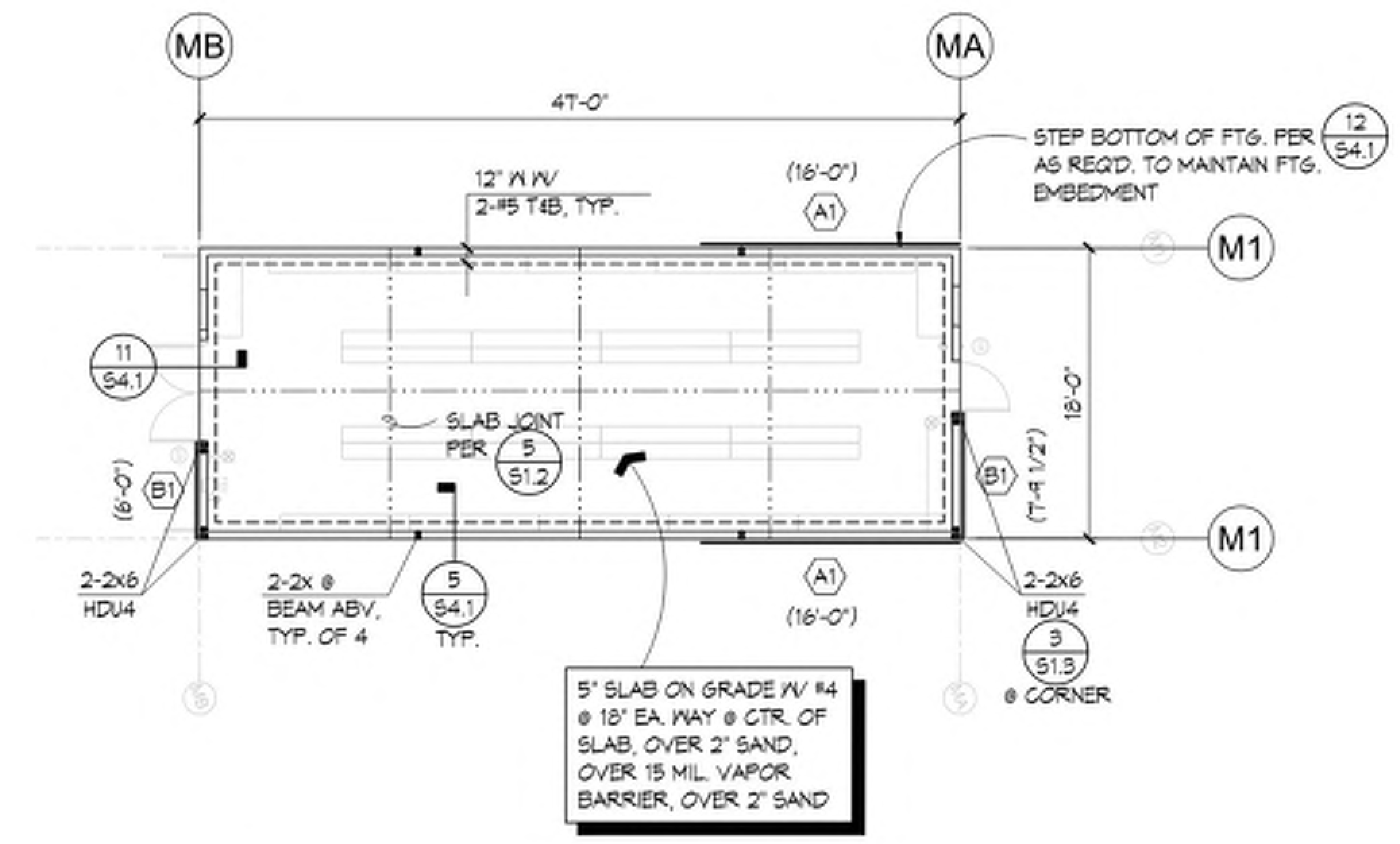
FOUNDATION PLAN BLDG P104
SCALE: 1/8" = 1'-0"

BUILDING P104 EXISTING LATERAL SYSTEM HAS BEEN VERIFIED FOR CONFORMANCE TO 2019 CBC FORCES WITHOUT ANY SEISMIC REHABILITATION UPGRADES TO THE SUPER STRUCTURE EXCEPT CONNECTION TO THE NEW FOUNDATION.

NOTE:
WITHIN THE AREA OF THE PROPOSED BUILDINGS, EXISTING SOIL SHOULD BE REMOVED TO A DEPTH OF AT LEAST 1 FT. BELOW THE BOTTOM OF PROPOSED FOOTINGS AND REPLACED WITH PROPERLY COMPACTED FILL. THE REMOVALS SHOULD EXTEND 5 FT. OUTSIDE THE BUILDING STRUCTURE FOOTPRINT, WHERE POSSIBLE. THE ACTUAL EXTENT OF UNSUITABLE SOIL REMOVALS SHOULD BE DETERMINED IN THE FIELD BY THE SOIL ENGINEER GEOLOGIST.



ROOF FRAMING PLAN BOOKROOM
SCALE: 1/8" = 1'-0"



FOUNDATION PLAN BOOKROOM
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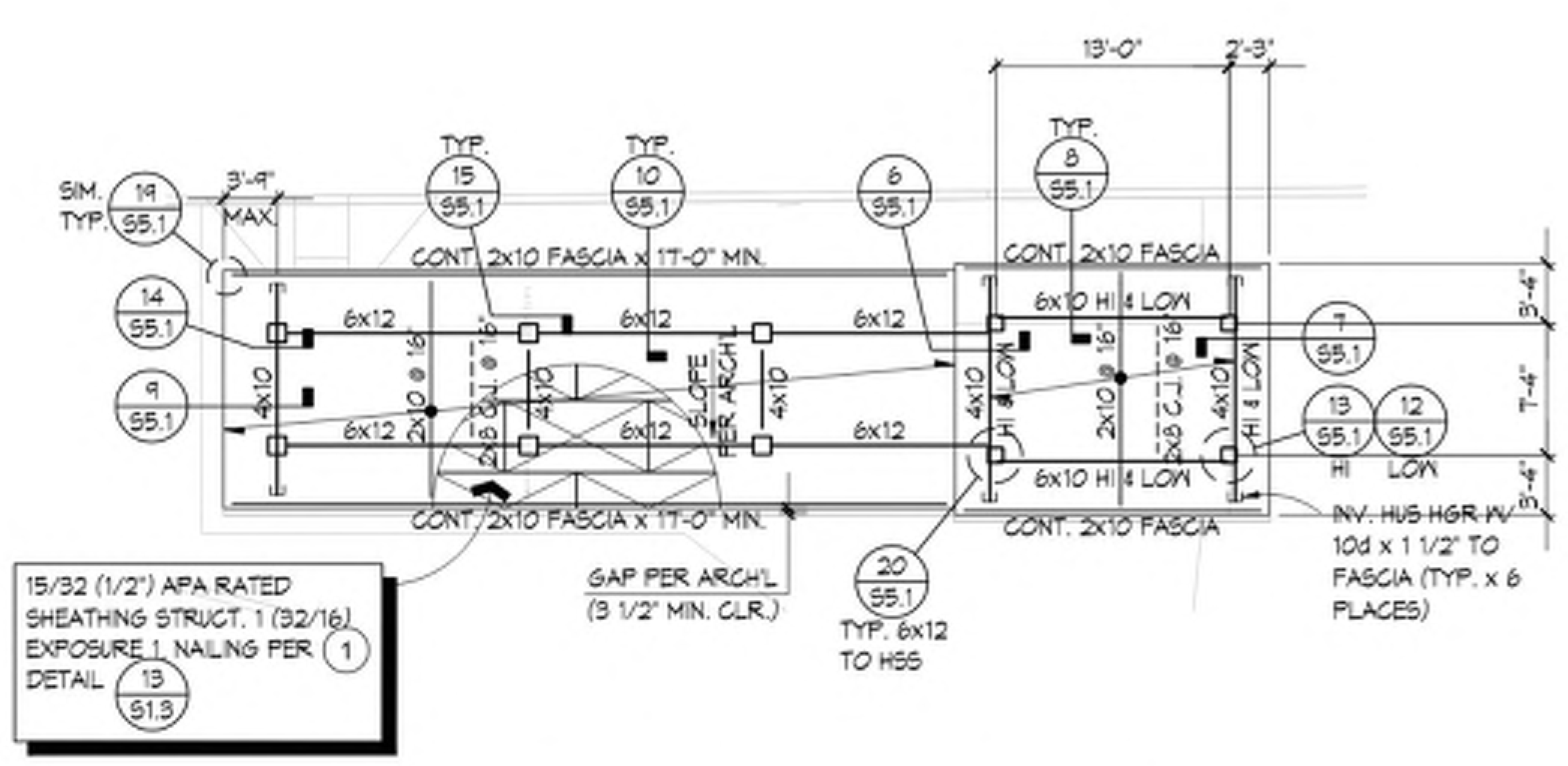
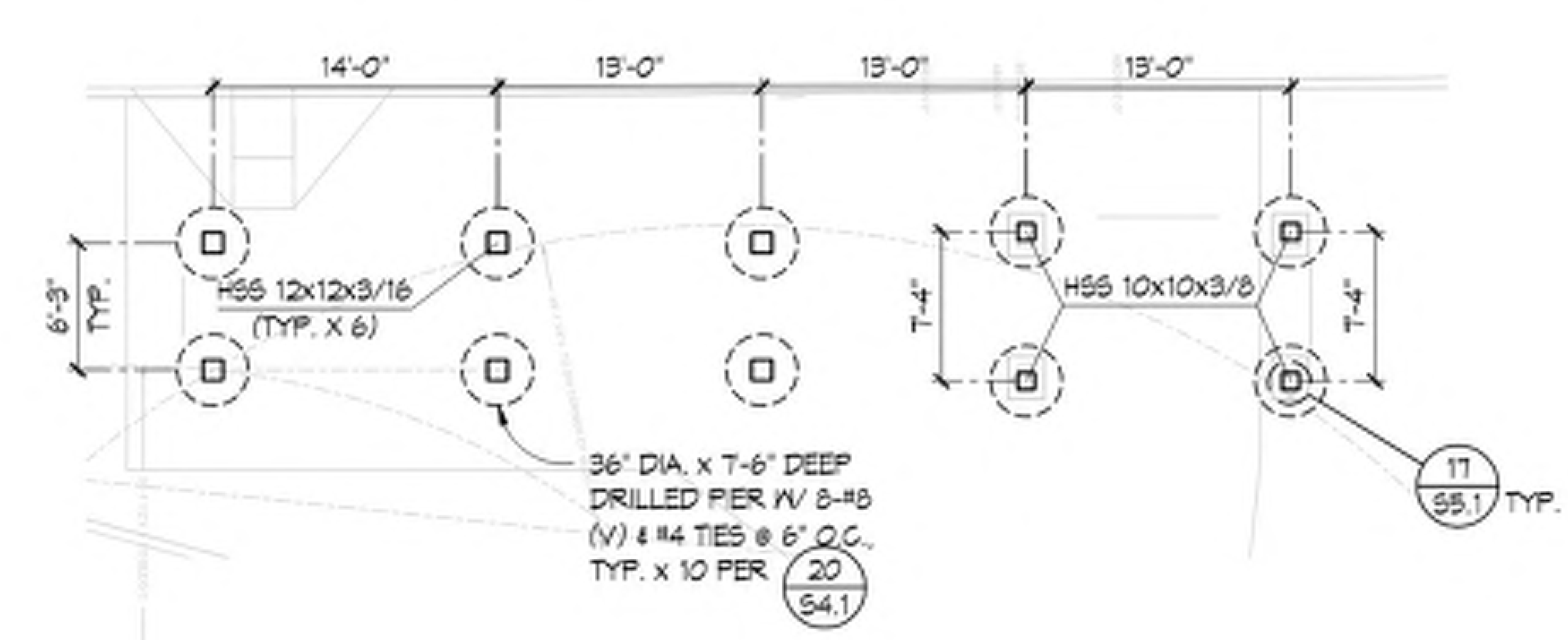


ROOF FRAMING PLAN ENTRY
SCALE: 1/8" = 1'-0" (ADD ALTERNATE)
REFER TO ARCH'L SHEETS A-006, A-007 & A-008 FOR ADDITIONAL INFORMATION.



FOUNDATION PLAN ENTRY
SCALE: 1/8" = 1'-0" (ADD ALTERNATE)

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APP: 04-121018 INC:
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DAVY ARCHITECTURE
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WISEMAN + ROHY STRUCTURAL ENGINEERS

Mountain Empire Unified School District

Project No.2017

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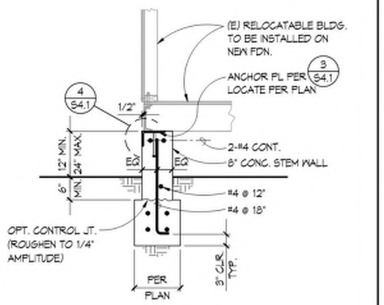
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	21032.00
DRAWN BY:	Team
CHECKED BY:	DM

FOUNDATIONS & ROOF FRAMING PLANS

S3.1

2/18/2022 8:36:11 AM



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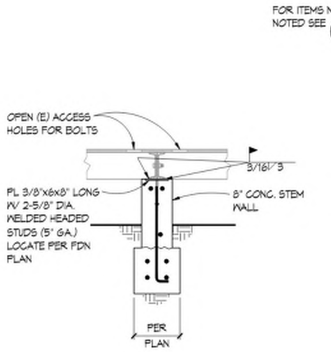

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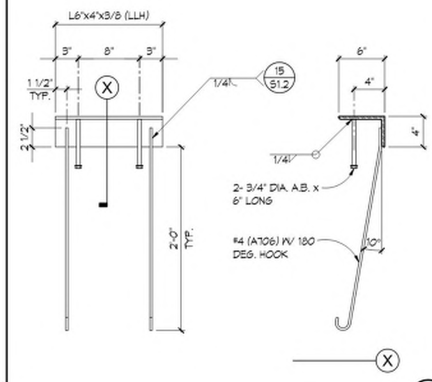

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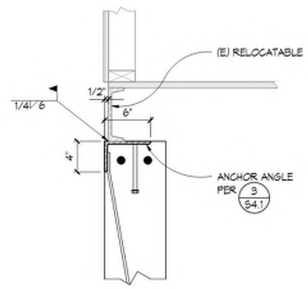

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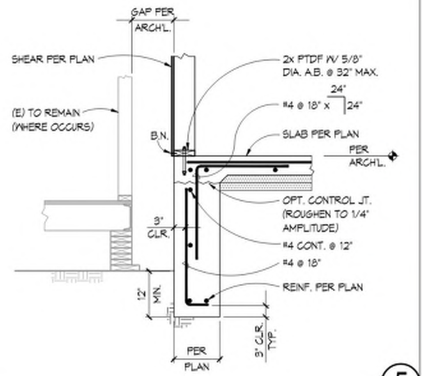

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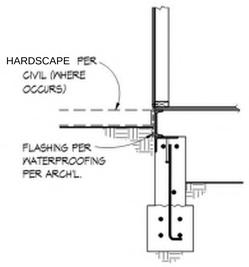

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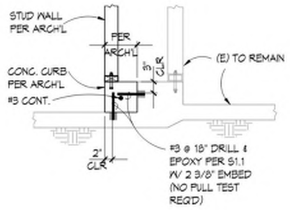

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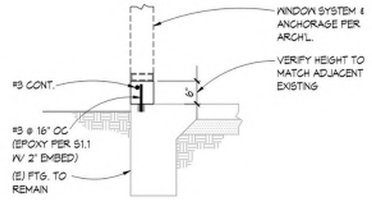

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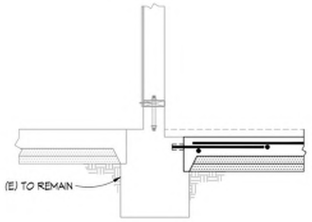

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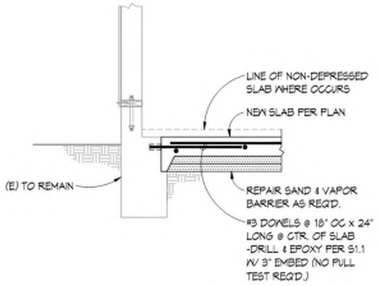

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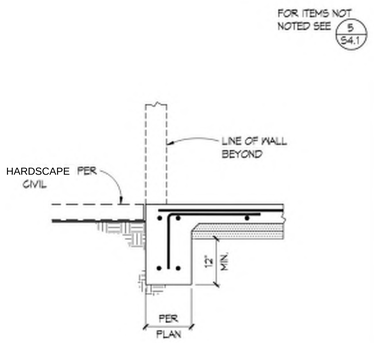

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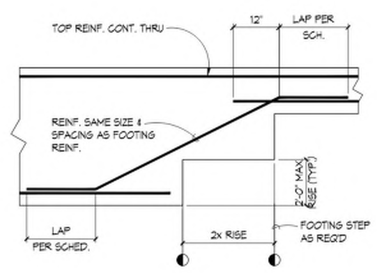

TYPICAL FOOTING STEP

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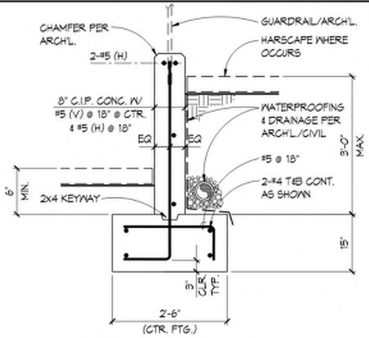
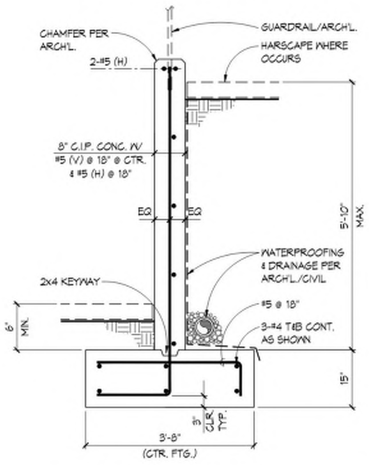
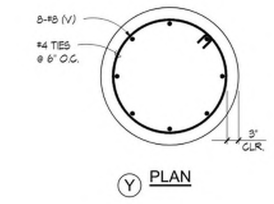


3'-0" MAX. RETAINING



5'-10" MAX. RETAINING



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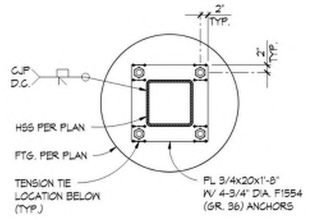

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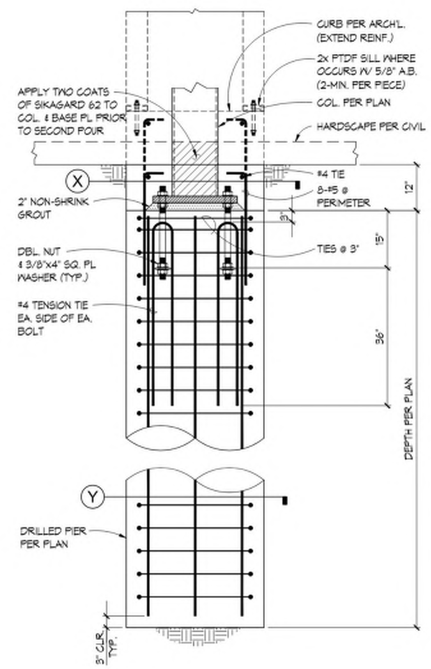

(ADD ALTERNATE)

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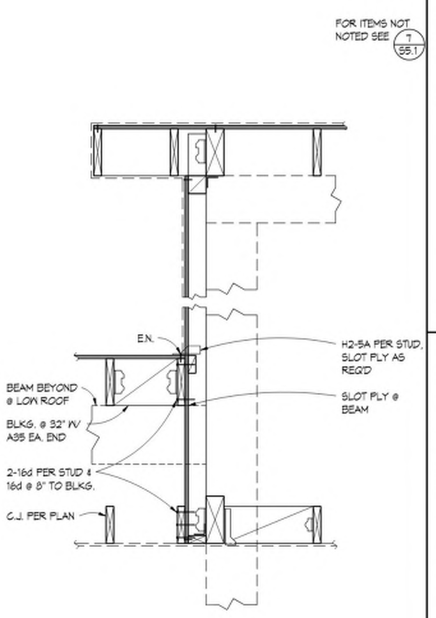

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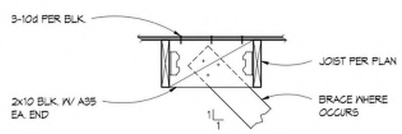

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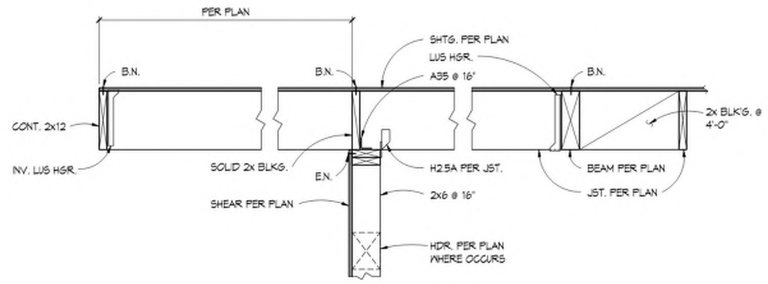

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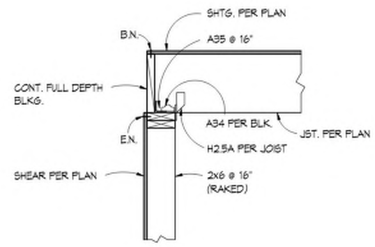

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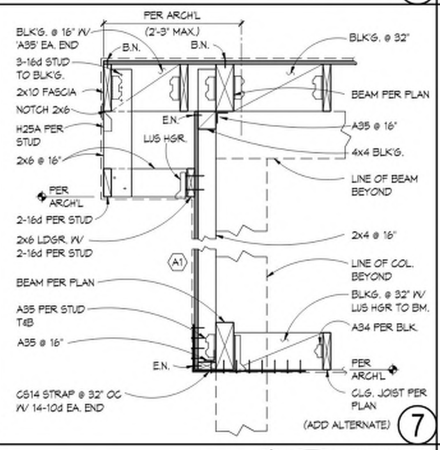

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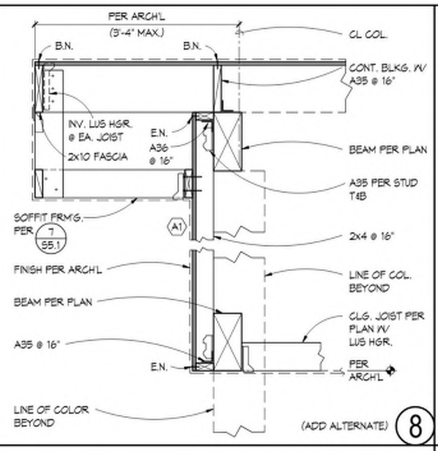

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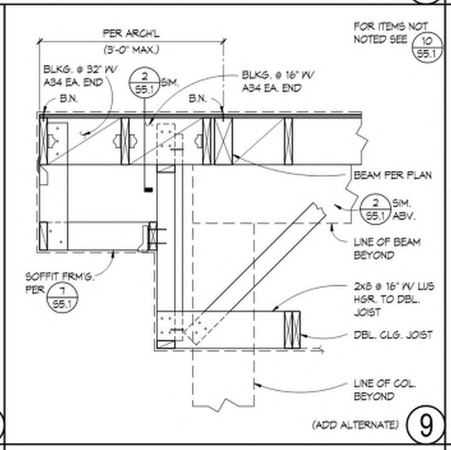

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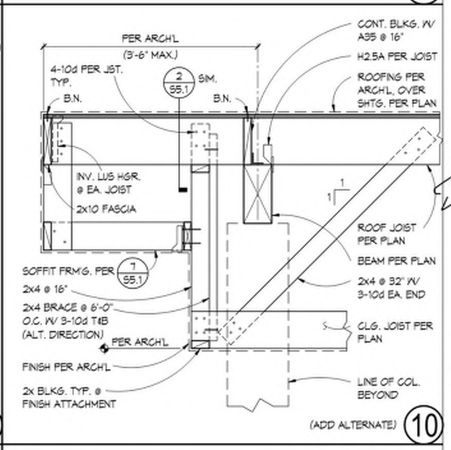

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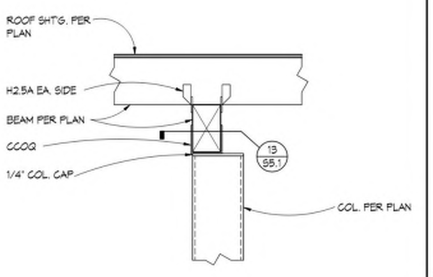

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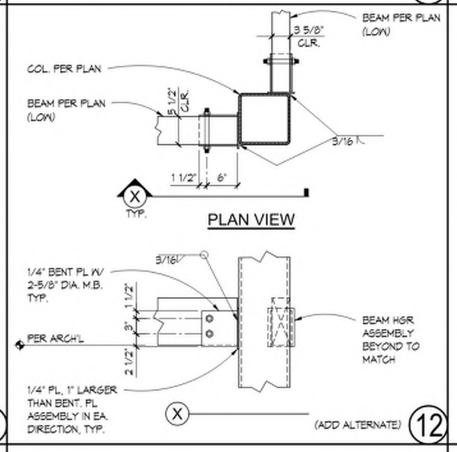

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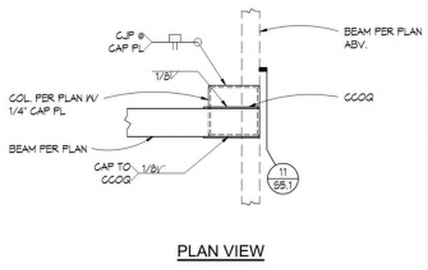

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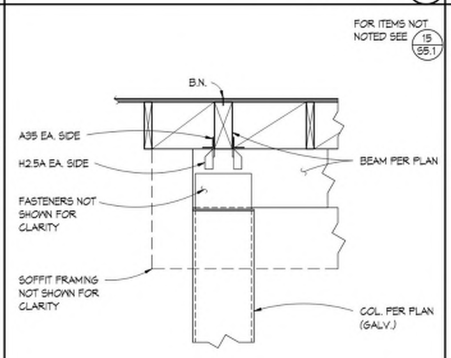

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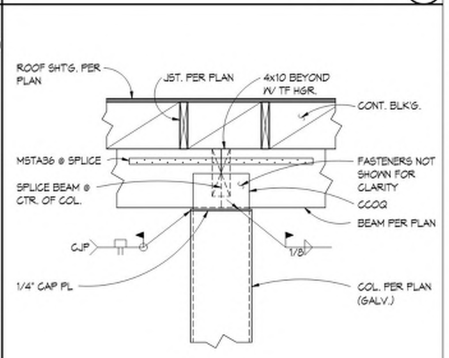

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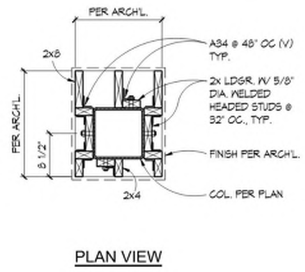

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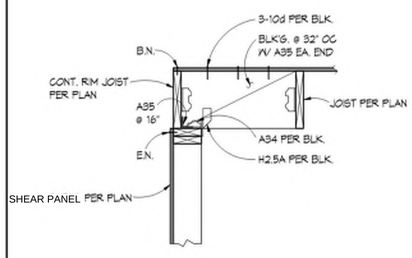

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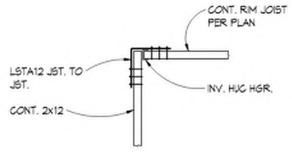

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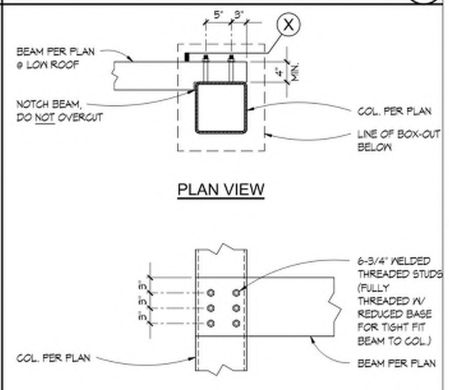

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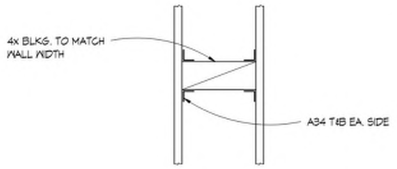
S5.1

1



PLAN

TYPICAL WALL BLOCKING

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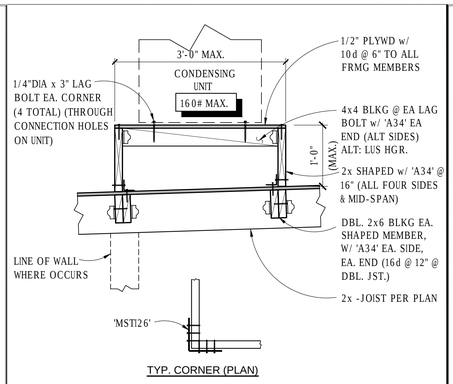

TYP. CORNER (PLAN)

CU/HP UNIT ANCHORAGE

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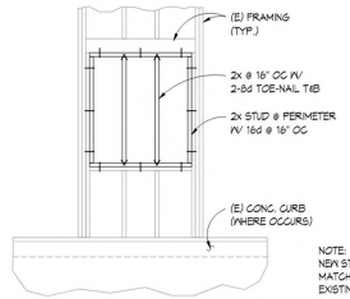
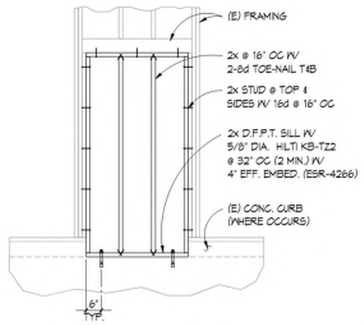


NOTE:
NEW STUDS SHALL MATCH DEPTH OF EXISTING STUDS

TYP. (E) WINDOW INFILL



TYP. (E) DOOR INFILL

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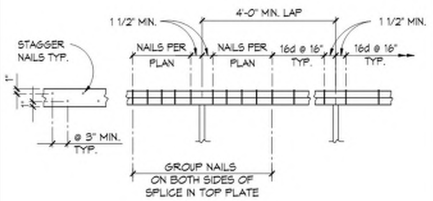
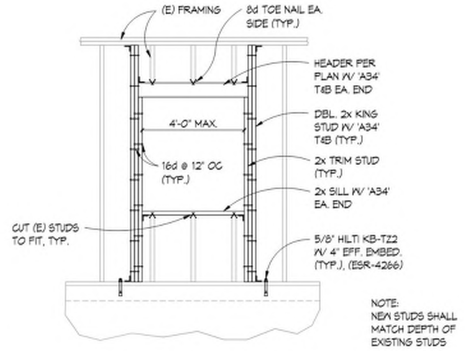


TYPICAL TOP PLATE SPLICE



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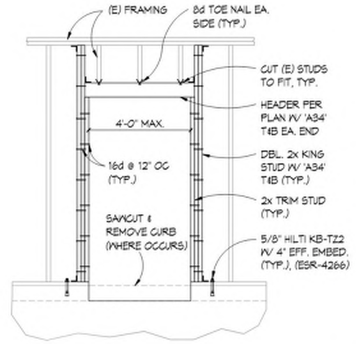
NEW WINDOW OPENING



NEW DOOR OPENING

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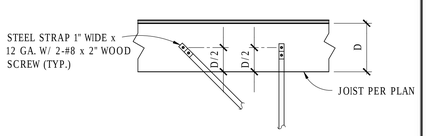

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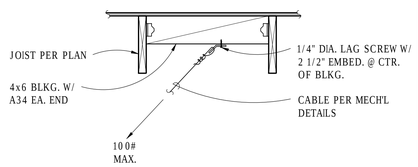

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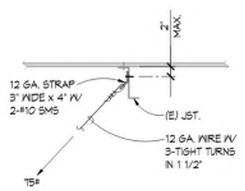

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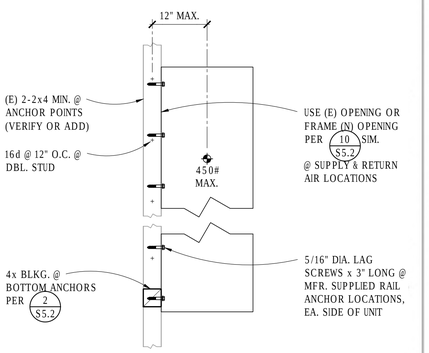

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GENERAL NOTES

1. THESE DOCUMENTS MAY NOT BE USED FOR ANY REPRODUCTION, BIDDING, OR CONSTRUCTION UNLESS AUTHORIZED, IN WRITING, BY SALAS O'BRIEN AND THE ENGINEER OF RECORD RESPONSIBLE FOR THEIR PREPARATION.
2. ALL BRANCH DUCTS SHALL HAVE BALANCE DAMPERS WITH QUADRANT LOCKS.
3. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
4. DUCTWORK SHALL BE GALVANIZED SHEET METAL IN COMPLETE CONFORMANCE WITH C.M.C., AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. FLEXIBLE DUCTS MAY BE USED TO CONNECT INTO AIR OUTLETS AND INLETS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5'-0".

   DUCTWORK ON ROOF SHALL BE DOUBLE WALL & INTERNALLY LINED AND PAINTED. ALL JOINTS AND SEAMS SHALL BE WEATHERPROOF.

   ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES.

   DUCTS SERVING TYPE 1 KITCHEN HOODS SHALL BE CONSTRUCTED OF MINIMUM 16 GAUGE CARBON STEEL OR MINIMUM 18 GAUGE STAINLESS STEEL WITH FULLY WELDED JOINTS. DISHWASHER EXHAUST SHALL BE MINIMUM 18 GAUGE STAINLESS STEEL.
5. ALL FLEXIBLE DUCTS SHALL BE INSULATED. MINIMUM BEND RADIUS SHALL BE TWICE THE DUCT DIAMETER.
6. SUPPLY AND RETURN DROPS SHALL BE SHEET METAL PLENUMS.
7. DUCT AND PLENUM INSULATION SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6, ENERGY EFFICIENCY STANDARDS (E.E.S.), TABLE 150.1-A AND THE 2019 CALIFORNIA MECHANICAL CODE (C.M.C.) SECTION 604.0.
8. ALL SHEET METAL DUCTS SHALL BE INSULATED BY MEANS OF FOIL WRAP, 3/4 LB. DENSITY FIBERGLASS INSULATION. INSULATION SHALL BE UL LISTED. DUCT LINERS SHALL BE NON-FIBERGLASS TYPE WITH THICKNESS AS REQUIRED TO MEET T-24 REQUIREMENTS.
9. THERMOSTATS SHALL BE LOCATED AT 4' - 0" ABOVE FINISHED FLOOR (46" MAX. IF MOUNTED OVER CASEWORK OR OTHER OBSTRUCTION) IN ACCORDANCE WITH A.D.A. REQUIREMENTS, UNLESS NOTED OTHERWISE.
10. CONDENSATE DRAIN PIPING SHALL BE COPPER TYPE "L", AND SHALL BE ROUTED TO AN APPROVED RECEPTOR.
11. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS.
12. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, I.E. LIGHTS, SPEAKERS, TILES AND SPRINKLER HEADS.
13. ALL SUPPLY CEILING DIFFUSERS SHALL HAVE 4-WAY AIR FLOW DISTRIBUTION PATTERNS, UNLESS INDICATED OTHERWISE.
14. COORDINATE FINAL LOCATIONS OF THERMOSTATS WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FIELD COORDINATE LOCATIONS WITH OTHER TRADES INCLUDING ELECTRICAL, TELEPHONE, ETC.
15. FIRE/SMOKE DAMPERS SHALL BE INSTALLED ON ALL DUCTWORK PASSING THROUGH FIRE SEPARATING WALLS, AND SHALL BE INSTALLED AS PER 2019 CMC SECTION 605.0, 2019 CBC SECTION 717. AND UL., LOCAL, STATE, AND N.F.P.A.
16. ALL ROOF PENETRATIONS, CUTTING, PATCHING, BLOCKOUTS, STRUCTURAL SUPPORT, ROOF OPENINGS, LEVELING OF PRE-FAB CURBS SHALL BE BY GENERAL CONTRACTOR. CONTRACTOR SHALL VERIFY EXACT ROOF OPENING SIZES WITH UNIT MANUFACTURER PRIOR TO START OF WORK AND SHALL MAKE ALL NECESSARY ADJUSTMENTS AT NO EXTRA COST TO OWNER.
17. LOCATION OF ALL MECHANICAL EQUIPMENT SHOWN ARE SCHEMATIC. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATIONS AND REQUIRED SERVICE/MAINTENANCE CLEARANCES PRIOR TO START OF WORK.
18. CONTRACTOR SHALL VERIFY WEIGHTS OF ALL MECHANICAL EQUIPMENT WITH THEIR MANUFACTURER PRIOR TO START OF WORK. IF DIFFERENT THAN THE WEIGHTS INDICATED ON DRAWINGS, CONTRACTOR SHALL INFORM THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO START OF WORK.
19. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS W/MFR. AND COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE MANUFACTURER PRIOR TO START OF WORK. NOTIFY THE ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCIES, PRIOR TO START OF WORK.
20. ALL HVAC EQUIPMENT, APPLIANCES, AND DUCTWORK SHALL CONFORM TO THE LATEST GUIDELINES OF U.L., A.G.A., N.F.P.A., C.M.C., C.P.C., AND ALL OTHER LOCAL CODES HAVING JURISDICTION.
21. TEST AND BALANCE THE HVAC SYSTEM AS PER REQUIREMENTS OF THE MANDATORY HVAC MEASURES INDICATED ON THIS SHEET.
22. CONTRACTOR SHALL FIELD VERIFY EXACT CEILING SPACE AVAILABLE FOR ROUTING OF DUCT, PRIOR TO START OF WORK, INFORM ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCY OR POTENTIAL CONFLICTS PRIOR TO FABRICATING AND/OR PURCHASE OF ANY DUCTWORK.
23. ALL HVAC UNITS SYSTEMS WITH 2000 CFM OR MORE OR SERVING A COMMON AIR SPACE MUST BE INTERCONNECTED TO SHUT DOWN IMMEDIATELY UPON ALARM CONDITION FROM DUCT DETECTORS (OR FIRE ALARM SYSTEM WHEN USING AREA SMOKE DETECTORS IN LIEU OF DUCT DETECTORS) WITHOUT INTERFACE FROM EMS OR ANY OTHER SYSTEMS. ALL CONTROL RELAYS USED FOR SHUT DOWN MUST BE CALIFORNIA STATE FIRE MARSHAL LISTED FOR RELEASING SERVICE.
24. ACCESS PANELS SHALL BE PROVIDED TO ALL EQUIPMENT, MANUAL VOLUME DAMPERS, ETC. LOCATED IN INACCESSIBLE AREAS.
25. MAINTAIN MINIMUM 10'-0" BETWEEN ALL OA INTAKES AND EXHAUST AIR DISCHARGES OR VENTS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA..

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5., 13.6.6 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☒ MD☒ PP☐ E☐ — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ — OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #______.

LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		DEMOLITION
		ITEM TO BE RELOCATED
		FLEXIBLE CONNECTION, DUCTWORK
	10x6	DUCT SIZE (1ST NUMBER INDICATES SIDE SHOWN)
	(L)	INTERNALLY LINED DUCTWORK
	TV	SQUARE ELBOW WITH TURNING VANES
		ROUND ELBOW
	MVD	MANUAL VOLUME DAMPER
	OA	OUTSIDE AIR
		ROUND DUCT UP
		CEILING SUPPLY AIR DIFFUSER (4-WAY THROW UNLESS NOTED OTHERWISE)
	SA	SUPPLY AIR
	RR/RG	RETURN AIR REGISTER/GRILLE
	RA	RETURN AIR
	ER/EG	EXHAUST AIR REGISTER/GRILLE
	EA	EXHAUST AIR
	AP	CEILING ACCESS PANEL
		RECTANGULAR SUPPLY DUCT UP
		RECTANGULAR RETURN DUCT UP
	EA	RECTANGULAR EXHAUST DUCT UP
T	TSTAT	THERMOSTAT
S		WALL SWITCH/WALL STAT
CO_2	CO_2	CARBON DIOXIDE SENSOR
SD	SD	DUCT MOUNTED SMOKE DETECTOR INTERLOCK WITH FIRE ALARM. SEE ELECT. DWGS.
TS	TS	TIMER SWITCH
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
¢	CFM	CUBIC FEET PER MINUTE
	ACI	AMERICAN CONCRETE INSTITUTE
	A.D.A.	AMERICANS WITH DISABILITIES ACT
	A.F.F.	ABOVE FINISH FLOOR
	A.G.A.	AMERICAN GAS ASSOCIATION
	AL	ALUMINUM
	AMB.	AMBIENT
	APRX.	APPROXIMATE(LY)
	ARCH.	ARCHITECT OR ARCHITECTURAL
	ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
	BHP	BRAKE HORSEPOWER
	BLDG	BUILDING
	BTU(H)	BRITISH THERMAL UNIT (PER HOUR)
	B.U.R.	BUILT-UP ROOFING
	CAP.	CAPACITY
	C.B.C.	CALIFORNIA BUILDING CODE
	C.E.C.	CALIFORNIA ENERGY COMMISSION
	C.M.C.	CALIFORNIA MECHANICAL CODE
	C.P.C.	CALIFORNIA PLUMBING CODE
	CGBSC	CALIFORNIA GREEN BUILDING STANDARDS COMMISSION
	CONC.	CONCRETE
	COND.	CONDITIONS
	CONN.	CONNECTIONS
	COORD.	COORDINATE
	C.O.P.	COEFFICIENT OF PERFORMANCE
	CORR.	CORRIDOR
	CU	COPPER
	DB	DRY BULB
	DET.	DETAIL
	DIM.	DIMENSIONS
	DN.	DOWN
	DWG(S).	DRAWING(S)
	U.L.	UNDERWRITER'S LABORATORIES
	U.F.C.	UNIFIED FACILITIES CRITERIA
	V	VOLTAGE/VOLTS
	VEL.	VELOCITY
	WB	WET BULB
	WT.	WEIGHT

LEGEND (CONT.)

SYMBOL	ABBREV.	DESCRIPTION
	DX	DIRECT EXPANSION
	(E)	EXISTING
	EAT	ENTERING AIR TEMPERATURE
	EDB.	ENTERING DRY BULB
	ENT.	ENTERING
	EQ.	EQUAL
	EWT	ENTERING WATER TEMPERATURE
	EER	ENERGY EFFICIENCY RATIO
	E.E.S.	ENERGY EFFICIENCY STANDARDS
	EFF.	EFFICIENCY
	ELEC.	ELECTRICAL
	ESP	EXTERNAL STATIC PRESSURE (INCHES OF WATER)
	FAB	FABRICATED
	F.A.R.	FREE AREA REQUIRED
	FLA	FULL LOAD AMPS
	FPM	FEET PER MINUTE
	FT.	FEET
	GA.	GAUGE
	GALV.	GALVANIZED
	GPM	GALLONS PER MINUTE
	GSM	GALVANIZED SHEET METAL
	HERS	HOME ENERGY RATING SYSTEM
	HHW	HEATING HOT WATER
	HP	HORSEPOWER
	HSPF	HEATING SEASONAL PERFORMANCE FACTOR
	HVAC	HEATING, VENTILATION AND AIR CONDITIONING
	I.B.C.	INTERNATIONAL BUILDING CODE
	I.M.C.	INTERNATIONAL MECHANICAL CODE
	I.P.C.	INTERNATIONAL PLUMBING CODE
	IN.	INCHES
	KW	KILOWATT
	LAT	LEAVING AIR TEMPERATURE
	LBS.	POUNDS
	LVG.	LEAVING
	MECH.	MECHANICAL
	MAX.	MAXIMUM
	MB	MACHINE BOLT
	MBH	1000 BTUH
	MCA	MINIMUM CIRCUIT AMPACITY
	MFR	MANUFACTURER
	MIN.	MINIMUM
	MOCP	MAXIMUM OVERCURRENT PROTECTION
	MTG.	MOUNTING
	MVD	MANUAL VOLUME DAMPER
	NA	NOT APPLICABLE
	N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
	NIC	NOT IN CONTRACT
	NC	NOISE CRITERIA
	NO.	NUMBER
	OBD	OPPOSED BLADE DAMPER
	OPER.	OPERATING
	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
	PH	PHASE
	QTY.	QUANTITY
	RECT.	RECTANGLE/RECTANGULAR
	RPM	REVOLUTIONS PER MINUTE
	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	SF	SQUARE FEET
	SQ.	SQUARE
	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
	S.M.S.	SHEET METAL SCREW
	S.O.V.	SHUT-OFF VALVE
	SPD	STATIC PRESSURE DROP
	SQFT	SQUARE FEET
	STRUC.	STRUCTURAL
	STL.	STEEL
	TEMP.	TEMPERATURE
	THRU	THROUGH
	TSP	TOTAL STATIC PRESSURE
	TYP.	TYPICAL
	U/C	UNDERCUT DOOR

MANDATORY HVAC SYSTEM MEASURES

1. ALL WORK INDICATED ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE COORDINATED WITH WORKS OF OTHER TRADES PRIOR TO START OF WORK.
2. ALL HVAC EQUIPMENT LISTED IN SECTION 100(H) OF THE E.E.S. MUST BE C.E.C. CERTIFIED.
3. ALL PIPING INSULATION SHALL BE CONSISTENT WITH THE REQUIREMENTS OF C.M.C. SECTIONS 1201.2 AND TABLE E 502.5, AND E.E.S. SECTION 120.3-A.
4. ALL DUCTWORK INSULATION SHALL BE CONSISTENT WITH THE REQUIREMENTS OF SECTIONS C.M.C. SECTION 604.0 TITLE 24 E.E.S. TABLE 150.1-A.
5. ALL HVAC EQUIPMENT AND APPLIANCE SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.2, 110.5 AND 120.1-120.7 E.E.S.
6. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 E.E.S.
7. ALL VENTILATION SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE C.M.C.
8. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER, MANAGER, AND THE ORIGINAL OCCUPANTS A LIST OF THE HEATING, VENTILATION, AND AIR CONDITIONING FEATURES, MATERIALS, AND COMPONENTS INSTALLED IN THE BUILDING AND OPERATING INSTRUCTIONS.
9. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 120.3 AND 120.4 E.E.S.
10. ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS, OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS. TESTING AND BALANCING SHALL BE DONE BY AN INDEPENDENT QUALIFIED AGENCY.
11. ALL SYSTEMS SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY AN INDEPENDENT QUALIFIED TESTING AGENCY.
12. DUCT INSULATION SHALL HAVE A MINIMUM INSTALLED R-VALUE OF 8.0.
13. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS SHALL BE SEALED AND MECHANICAL EQUIPMENT SHALL BE COVERED TO PROTECT INTEGRITY OF SYSTEM CLEANLINESS.
14. PRIOR TO FINAL APPROVAL OF THE BUILDING, THE LICENSED CONTRACTOR, ARCHITECT, OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVE TO THE BUILDING DEPARTMENT OFFICIAL TO BE FILED WITH THE APPROVED PLANS.
15. PROVIDE TEMPORARY MEANS OF BUILDING VENTILATION DURING CONSTRUCTION IN ACCORDANCE WITH CGBSC SECTION 5.504.1.1.
16. BUILDING FLUSH-OUT SHALL BE PERFORMED AND MONITORED UPON CONSTRUCTION COMPLETION IN ACCORDANCE WITH CGBSC SECTION 5.504.2.
17. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
18. THERMOSTATIC CONTROLS FOR ALL SINGLE ZONE AIR CONDITIONERS AND HEAT PUMPS SHALL COMPLY WITH THE REQUIREMENTS OF EES SECTION 110.2(C) AND REFERENCE JOINT APPENDIX JA5. THERMOSTAT SHALL BE CAPABLE OF COMMUNICATING THROUGH EITHER (1) AT LEAST ONE EXPANSION PORT WITH A REMOVABLE MODULE TO ENABLE COMMUNICATION; OR (2) ON BOARD COMMUNICATION DEVICE.
19. DUCTWORK SHALL BE LEAK TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL FOR A REPRESENTATIVE TOTAL NOT LESS THAN 10% OF INSTALLED DUCTWORK IN ACCORDANCE WITH THE REQUIREMENTS OF CMC 603.10.

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART, TITLE 24 CCR*

2019 CALIFORNIA BUILDING CODE (CBC), PART 2. TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3. TITLE 24 CCR(2017 NATIONAL ELECTRIC CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS.

2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN BUILDING CODE (CALGreen), PART 11, TITLE 24 CCR

2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH. 35)

Note: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 (2016) - STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)

NFPA 14 (2016) - STANDARDS FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)

NFPA 17 (2017) - STANDARDS FOR DRY CHEMICAL EXTINGUISHING SYSTEMS

NFPA 17A (2017) - STANDARD FOR FOR WET CHEMICAL EXTINGUISHING SYSTEMS

NFPA 20 (2016) - STANDARDS FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

NFPA 22 (2013) - STANDARDS FOR WATER TANKS FOR PRIVATE FIRE PROTECTION

NFPA 24 (2016) - STANDARDS FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THERE APPURTENANCES (CA AMENDED)

NFPA 72 (2016) - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)

NFPA 80 (2016) - STANDARDS FOR FIRE DOORS AND OTHER OPENING PROTECTIVES

NFPA 2001 (2015) - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)

UL 300 (2005, R2010) - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT

UL 464 (2003) - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521 (1999) - STANDARDS FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

UL 1971 (2002, R2010) - STANDARDS FOR SIGNALING DEVICES FOR THE HEATING IMPAIRED

ICC 300 (2017) - STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS

CURRENT AS OF OCTOBER 10, 2020 ERRATA (CBC VOLUMES 1 AND 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

SALASOBRIEN
#21089

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

MECHANICAL LEGEND AND GENERAL NOTES

M-001

7/27/2021 9:46:11 AM

ROOFTOP GAS/ELEC. AIR CONDITIONING UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	SERVES	NOMINAL CAP. @ ARI COND. (TONS)	SEER (EER)	SUPPLY FAN						COMPRESSOR			CONDENSER FAN			POWER EXH.			V/PH/ COMB. FAN		UNIT POWER SUPPLY				COOLING				HEATING		FILTERS		OPER. WEIGHT (LBS.)	REMARKS
					CFM	ESP (IN. W.G.)	OA CFM	NO.	HP	FLA	NO.	RLA	LRA	NO.	HP	FLA	CFM	ESP	HP	NO.	FLA	MCA	MOCP	V	PH	TOTAL CAP (MBH)	SENS. CAP (MBH)	EAT (°F) DB	EAT (°F) WB	AMB. TEMP (°F)	INPUT (MBH)	MIN. AFUE (%)	QTY	SIZE (IN.)		
AC 1	CARRIER 48FCLA05	CLASSROOM C11	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 2	CARRIER 48VLNC48	CLASSROOM C12	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 3	CARRIER 48FCLA05	CLASSROOM C13	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 4	CARRIER 48FCLA05	CLASSROOM C14	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 5	CARRIER 48FCLA05	CLASSROOM C20	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 6	CARRIER 48FCLA05	CLASSROOM C19	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 7	CARRIER 48FCLA05	CLASSROOM C18	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 8	CARRIER 48FCLA05	CLASSROOM C17	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 9	CARRIER 48FCLA05	CLASSROOM C16	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 10	CARRIER 48FCLA05	CLASSROOM C15	4	14 (–)	1600	0.5	405	1	–	7.1	1	13.7	83	1	–	1.5	1600	.75	3.9	1	0.48	26	30	208	3	48.4	34.3	80	67	95	60	81	2	16x25x2	1250	1 2 3 4 5 6 8 9 10 11 12 13
AC 11	CARRIER 48FCLA06	OFFICE	5	14 (–)	2000	0.5	134	1	–	8.6	1	16	110	1	–	1.5	2000	0.3	3.9	1	0.48	35	50	208	3	59.3	44.7	80	67	95	60.0	81	2	16x25x2	1250	1 2 3 4 5 6 7 8 9 10 11 12

1. PROVIDE WITH PRE-FABRICATED LEVEL ROOF CURB AND CANT, SEE DETAIL 2/M-501.
2. PROVIDE BELT DRIVEN INDOOR FAN MOTOR.
3. PROVIDE FULLY MODULATING ENTHALPY BASED ECONOMIZER.
4. PROVIDE CENTRIFUGAL POWER EXHAUST WITH VFD AND ALL INTEGRATED FAULT DETECTION DIAGNOSTICS, CONTROLS AND REQUIRED ACCESSORIES PER MANUFACTURER RECOMMENDATION FOR PROPER SYSTEM OPERATION.
5. PROVIDE WITH PROGRAMMABLE THERMOSTAT, SEE DETAIL 1/M-501.
6. PROVIDE UL900 (CLASS 1 OR 2) 2"MERV 13 DISPOSABLE PLEATED FILTERS.
7. PROVIDE WITH DUCT MOUNTED SMOKE DETECTOR IN SUPPLY PLENUM. SEE FLOOR PLAN FOR LOCATION. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
8. PROVIDE WITH FLUE DISCHARGE DEFLECTOR.
9. PROVIDE WITH FUSED DISCONNECT SWITCH. FOR CONTROL DIAGRAM, SEE 3/M-501. SEE ELECTRICAL DRAWINGS.
10. PROVIDE ALL CONTROL WIRING IN CONDUIT AND ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
11. FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
12. PROVIDE WITH NON-CFC REFRIGERANT BASED SYSTEM.
13. PROVIDE WITH WALL-MOUNTED CO_2 SENSOR FOR DCV.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OF WOUNDED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

REGISTERED PROFESSIONAL ENGINEER
Peter Davy
No. M32881
Exp. 6/30/24
MECHANICAL
STATE OF CALIFORNIA

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www.salasobrien.com
E-Mail:admin@lsajeng.com

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

MECHANICAL SCHEDULES

M-002

7/27/2021 9:46:11 AM

Project Name:	Building C	NRCC-PRF-01-E	Page 1 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	Pine Valley	8	Standards Version	Compliance2019
2	CA Zip Code	91962	9	Compliance Software (version)	EnergyPro 8.1
3	Climate Zone	10	10	Weather File	SAN DIEGO-GILLESPIE_722907_CZ2010.epw
4	Total Conditioned Floor Area in Scope	11,685 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	ExistingAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☐ Performance ☒ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
				Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	NRCC -LTS-E
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included			Electrical Power Distribution §110.11	NRCC-ELC-E
Solar Thermal Water Heating (see Table I)	☐ Performance			Commissioning §120.8	NRCC-CXR-E
	☒ Not Included			Solar Ready §110.10	NRCC-SRA-E

Project Name:	Building C	NRCC-PRF-01-E	Page 2 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	4.20	2.05	2.15
Space Cooling	119.74	64.78	54.96
Indoor Fans	180.85	67.76	113.09
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	12.01	12.01	--
Indoor Lighting	41.50	41.50	--
ENERGY STANDARDS COMPLIANCE TOTAL	**358.30**	**188.10**	**170.20 (47.5%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	79.68	79.68	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**437.98**	**267.78**	**170.2 (38.9%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

Project Name:	Building C	NRCC-PRF-01-E	Page 3 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	--	--	24.0	11.8	12.2
Space Cooling	38.6	18.4	20.2	--	--	--
Indoor Fans	70.0	26.2	43.8	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.3	0.3	0.0	73.8	73.8	0.0
Indoor Lighting	16.6	16.6	0.0	--	--	--
Compliance Total	**125.5**	**61.5**	**64.0**	**97.8**	**85.6**	**12.2**
Receptacle	32.1	32.1	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**157.6**	**93.6**	**64.0**	**97.8**	**85.6**	**12.2**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

Project Name:	Building C	NRCC-PRF-01-E	Page 4 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
Classrooms	SZAC (Packaged3Phase)	10	49	0	AFUE	81.0	46	SEER EER	14.00 12.20	DifferentialDryBulb	N
Office	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	57	SEER EER	14.00 12.20	DifferentialDryBulb	N

[1] Status: N - New; A – Altered; E – Existing

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
			Supply Fan				Return Fan					
Name or Item Tag	System Type packaged, DOAS, etc.	Design OA CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	Economizer Type (if present)	Status[2]
Classrooms	SZAC	405	1600	0.570	497.1	ConstantVolume	NA	NA	NA	NA	DifferentialDryBulb	N
Office	SZAC	134	2000	0.720	627.9	ConstantVolume	NA	NA	NA	NA	DifferentialDryBulb	N

[1] Status: N - New; A – Altered; E – Existing

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

Project Name:	Building C	NRCC-PRF-01-E	Page 5 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
Classrooms	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential DrybulbEconomizer No Supply Air Temp. Control
Office	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Differential DrybulbEconomizer No Supply Air Temp. Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-Classrooms	Education - Classrooms (ages 9-18)	0	269.75	0	4046	0	10790	NA
2-Office	Office - Office space	0	4.47	0	134	0	895	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	No

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	Zone Name	System Type	Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
1-Classrooms-Trm	1-Classrooms	Uncontrolled	NA	NA	16000	NA	0.00	NA	NA	NA	☐

Project Name:	Building C	NRCC-PRF-01-E	Page 6 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	Zone Name	System Type	Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
2-Office-Trm	2-Office	Uncontrolled	NA	NA	2000	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	Building C	NRCC-PRF-01-E	Page 7 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

Project Name:	Building C	NRCC-PRF-01-E	Page 8 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-05-A Air Economizer Controls
	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints
	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
	NRCA-MCH-20 MultiFamily Ventilation

Project Name:	Building C	NRCC-PRF-01-E	Page 9 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	13:07, Wed, Feb 23, 2022
Input File Name:	Building C.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Misty DuPre	Signature:
Company: Salasobrien	
Address: 3220 Executive Ridge Suite 210	Signature Date: 2022-02-23
City/State/Zip: Vista, CA 92081	CEA/ HERS Certification Identification (if applicable):
Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:	Signature: NOT IN SCOPE	
Company: DAVY Architecture		
Address: 1053 10th Ave	Date Signed:	
City/State/Zip: San Diego CA 92101		
Phone:	Title:	License #:
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Misty Dupre	Signature:	
Company: Salasobrien		
Address: 3220 Executive Ridge Suite 210	Date Signed: 02/23/2022	
City/State/Zip: Vista CA 92081		
Phone: 760 560 0100	Title: Mechanical engineer	License #: M32811

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
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SALASOBRIEN
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3220 EXECUTIVE RIDGE
SUITE 210
VISTA, CA 92081
TEL: (760) 560-0100
#21089
09-23-22
www.salasobrien.com
E-Mail: admin@bigerg.com

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: SOBE
CHECKED BY: SOBE

BUILDING C
TITLE 24

M-003

7/27/2021 9:46:11 AM

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 1 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	Pine Valley	8	Standards Version	Compliance2019
2	CA Zip Code	91962	9	Compliance Software (version)	EnergyPro 8.1
3	Climate Zone	10	10	Weather File	SAN-DIEGO-GILLESPIE_722907_CZ2010.epw
4	Total Conditioned Floor Area in Scope	2,480 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	ExistingAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope (see Table G)	☐ Performance	Covered Process: Commercial Kitchens	☐ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☒ Not Included		☒ Not Included			
Mechanical (see Table H)	☒ Performance	Covered Process: Computer Rooms	☐ Performance		Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
	☐ Not Included		☒ Not Included		Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☐ Performance	Covered Process: Laboratory Exhaust	☐ Performance		Sign Lighting §140.8	*NRCC -LTS-E*
	☒ Not Included		☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included				Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance				Commissioning §120.8	*NRCC-CXR-E*
	☒ Not Included				Solar Ready §110.10	*NRCC-SRA-E*

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 2 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	49.92	42.94	6.98
Space Cooling	98.44	86.09	12.35
Indoor Fans	117.18	32.61	84.57
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	11.90	11.91	-0.01
Indoor Lighting	49.87	49.87	--
ENERGY STANDARDS COMPLIANCE TOTAL	**327.31**	**223.42**	**103.89 (31.7%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	115.38	115.38	--
Process	38.32	38.32	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**481.01**	**377.12**	**103.9 (21.6%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 3 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	4.4	--	63.2	--	--
Space Cooling	6.1	5.9	0.2	--	--	--
Indoor Fans	9.0	2.8	6.2	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.6	0.6	0.0	6.7	6.7	0.0
Indoor Lighting	4.2	4.2	0.0	--	--	--
Compliance Total	**19.9**	**17.9**	**2.0**	**69.9**	**6.7**	**63.2**
Receptacle	9.4	9.4	0.0	6.3	6.3	0.0
Process	3.5	3.5	0.0	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**32.8**	**30.8**	**2.0**	**76.2**	**13.0**	**63.2**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 4 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
RTU 1	SZHP (Packaged1Phase)	1	37	0	HSPF	9.000	35	SEER EER	14.000 12.200	NoEconomizer	N
HP 1	SZHP (Packaged1Phase)	1	34	0	HSPF	9.000	36	SEER EER	14.000 11.100	NoEconomizer	N

[1] Status: N - New, A - Altered, E - Existing

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
	System Type	Design OA	Supply Fan				Return Fan					
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	Economizer Type (if present)	Status[1]
RTU 1	SZHP	240	1200	0.200	174.4	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N
HP 1	SZHP	0	1150	0.200	174.4	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

[1] Status: N - New, A - Altered, E - Existing

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H20)
Food service15	2-Food service	1	265	0.125	109.0	1.95

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 5 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
RTU 1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
HP 1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
	Mechanical Ventilation							
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-Office	Office - Office space	0	8.00	0	240	0	1600	NA
2-Food service	Exhaust - Kitchenettes	0	2.20	0	0	265	880	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	Zone Name	System Type	Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
1-Office-Trm	1-Office	Uncontrolled	NA	NA	1200	NA	0.00	NA	NA	NA	☐
2-Food service-Trm	2-Food service	Uncontrolled	NA	NA	1150	NA	0.00	NA	NA	NA	☐

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 6 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 7 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 8 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-20 Multifamily Ventilation

Project Name:	P101 - P104	NRCC-PRF-01-E	Page 9 of 9
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	09:00, Mon, Mar 21, 2022
Input File Name:	Portables.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Misty Dupre	Signature:
Company: Misty Dupre	
Address: 3220 Executive Ridge Suite 200	Signature Date: 2022-03-21
City/State/Zip: Vista, CA 92081	CEA/ HERS Certification Identification (if applicable):
Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:	Signature: NOT IN SCOPE	
Company: DAVY Architecture		
Address: 1053 10th Ave	Date Signed:	
City/State/Zip: San Diego CA 92101		
Phone:	Title:	License #:
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Misty Dupre	Signature:	
Company: Salasobrien		
Address: 3220 Executive Ridge Suite 210	Date Signed: 03/21/2022	
City/State/Zip: Vista CA 92081		
Phone: 760 560 0100	Title: Mechanical engineer	License #: M32811

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

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E-Mail admin@tsqeng.com

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

PORTABLE BUILDINGS AND BOOK ROOM TITLE 24

M-004

7/27/2021 9:46:11 AM

Project Name:	Book Room		NRCC-PRF-01-E	Page 1 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

A. GENERAL INFORMATION

1	Project Location (city)	Pine Valley	8	Standards Version	Compliance2019
2	CA Zip Code	91962	9	Compliance Software (version)	EnergyPro 8.1
3	Climate Zone	10	10	Weather File	SAN DIEGO-GILLESPIE_722907_CZ2010.epw
4	Total Conditioned Floor Area in Scope	800 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewEnvelopeAndMechanical
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	Propane

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
				Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	NRCC -LTS-E
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included			Electrical Power Distribution 5110.11	NRCC-ELC-E
Solar Thermal Water Heating (see Table I)	☐ Performance			Commissioning 5120.8	NRCC-CXR-E
	☒ Not Included			Solar Ready 5110.10	NRCC-SRA-E

Project Name:	Book Room		NRCC-PRF-01-E	Page 2 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	33.21	42.92	-9.71
Space Cooling	82.36	72.67	9.69
Indoor Fans	135.83	1.87	133.96
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	15.14	15.14	--
Indoor Lighting	42.85	42.85	--
ENERGY STANDARDS COMPLIANCE TOTAL	**309.39**	**175.45**	**133.94 (43.3%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	125.67	125.67	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**435.06**	**301.12**	**133.9 (30.8%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

Project Name:	Book Room		NRCC-PRF-01-E	Page 3 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	1.4	--	6.7	--	--
Space Cooling	1.8	1.4	0.4	--	--	--
Indoor Fans	3.7	0.1	3.6	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.4	0.4	0.0	--	--	--
Indoor Lighting	1.2	1.2	0.0	--	--	--
Compliance Total	**7.1**	**4.5**	**2.6**	**6.7**	**0.0**	**--**
Receptacle	3.4	3.4	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**10.5**	**7.9**	**2.6**	**6.7**	**0.0**	**--**

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

The proposed building includes HVAC components that do not meet the mandatory efficiency requirements.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

Project Name:	Book Room		NRCC-PRF-01-E	Page 4 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	144 ft²	0 ft²	00.0%
East-Facing[2]	400 ft²	32 ft²	08.0%
South-Facing[3]	144 ft²	0 ft²	00.0%
West-Facing[4]	400 ft²	32 ft²	08.0%
Total	**1,088 ft²**	**64 ft²**	**05.9%**
Roof	800 ft²	0 ft²	00.0%

Notes:
[1] *North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).*
[4] *West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).*

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
R-19 Wall6	ExteriorWall	1088	Wood	19	NA	U-Factor	0.072	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.	N
R-19 Roof No Attic13	Roof	800	Wood	19	NA	U-Factor	0.050	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 16in. OC, 7.25in., R-19 Gypsum Board - 1/2 in.	N

Project Name:	Book Room		NRCC-PRF-01-E	Page 5 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
R-11 Floor No Crawlspace15	ExteriorFloor	800	Wood	11	NA	U-Factor	0.070	Wood framed floor, 16in. OC, 5.5in., R-11 Plywood - 1/2 in. Carpet - 3/4 in.	N

[1] *Status: N - New, A – Altered, E – Existing*

G5. FENESTRATION ASSEMBLY SUMMARY

1 Fenestration Assembly Name / Tag or I.D.	2 Fenestration Type / Product Type / Frame Type	3 Certification Method[2]	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Status[3]
New Double Non Metal Tinted	VerticalFenestration OperableWindow NonMetalFraming	Default Performance	Manufactured	64	0.58	0.53	0.67	N

[2] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[3] *Status: N - New, A – Altered, E – Existing*

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1 Equipment Name	2 Equipment Type	3 Qty	4 Heating	5	6	7 Cooling	8	9	10	11 Economizer Type (if present)	12 Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
FC/HP 1	SZHP (Split1Phase)	1	37	0	HSPF	9.000	35	SEER EER	17.500 8.500	NoEconomizer	N

[1] *Status: N - New, A – Altered, E – Existing*

Project Name:	Book Room		NRCC-PRF-01-E	Page 6 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status[2]
	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
FC/HP 1	SZHP	120	1200	0.010	8.7	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

[1] *Status: N - New, A – Altered, E – Existing*

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

1 System Name	2 Optimum Start	3 Window Interlocks per §140.4(n)	4 Evaporative Cooling	5 Heat Recovery	6 Other Controls
FC/HP 1	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H6. MECHANICAL VENTILATION

1 Zone Name	2	3	4	5	6	7	8	9
	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-Bookroom	Office - Office space	0	4.00	0	120	0	800	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No

Project Name:	Book Room		NRCC-PRF-01-E	Page 7 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1 System ID	2 Zone Name	3 System Type	4 Rated Capacity (kBtuh)		6 Airflow (cfm)		8	9 Fan			12
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
1-Bookroom-Trm	1-Bookroom	Uncontrolled	NA	NA	1200	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	Book Room		NRCC-PRF-01-E	Page 8 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings

Project Name:	Book Room		NRCC-PRF-01-E	Page 9 of 10	
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962		Calculation Date/Time:	08:53, Mon, Mar 21, 2022	
Input File Name:	Bookroom.cibd19x				

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-20 Multifamily Ventilation

IDENTIFICATION STAMP
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09-23-22
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E-Mail:admin@stpcorp.com

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

PORTABLE BUILDINGS AND BOOK ROOM TITLE 24

M-005

7/27/2021 9:46:11 AM

Project Name:	Book Room	NRCC-PRF-01-E	Page 10 of 10
Project Address:	3305 Buckman Springs Rd. Pine Valley 91962	Calculation Date/Time:	08:53, Mon, Mar 21, 2022
Input File Name:	Bookroom.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Misty DuPre	Signature: Misty DuPre
Company: Salasobrien	
Address: 2220 Executive Ridge Suite 210	Signature Date: 2022-03-21
City/State/Zip: Vista, CA 92081	CEA/ HERS Certification Identification (if applicable):
Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:	Signature:	
Company: DAVY Architecture		
Address: 1053 10th Ave	Date Signed:	
City/State/Zip: San Diego CA 92101		
Phone:	Title:	License #:
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Misty Dupre	Signature: Misty DuPre	
Company: Salasobrien		
Address: 3220 Executive Ridge Suite 210	Date Signed: 03/21/2022	
City/State/Zip: Vista CA 92081		
Phone: 760 560 0100	Title: Mechanical engineer	License #: M32811

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12202021-6384 Report Generated at: 2022-03-21 08:54:23

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DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB CVE

REGISTERED PROFESSIONAL ENGINEER
Misty DuPre
No. M32811
Exp. 6/30/24
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STATE OF CALIFORNIA

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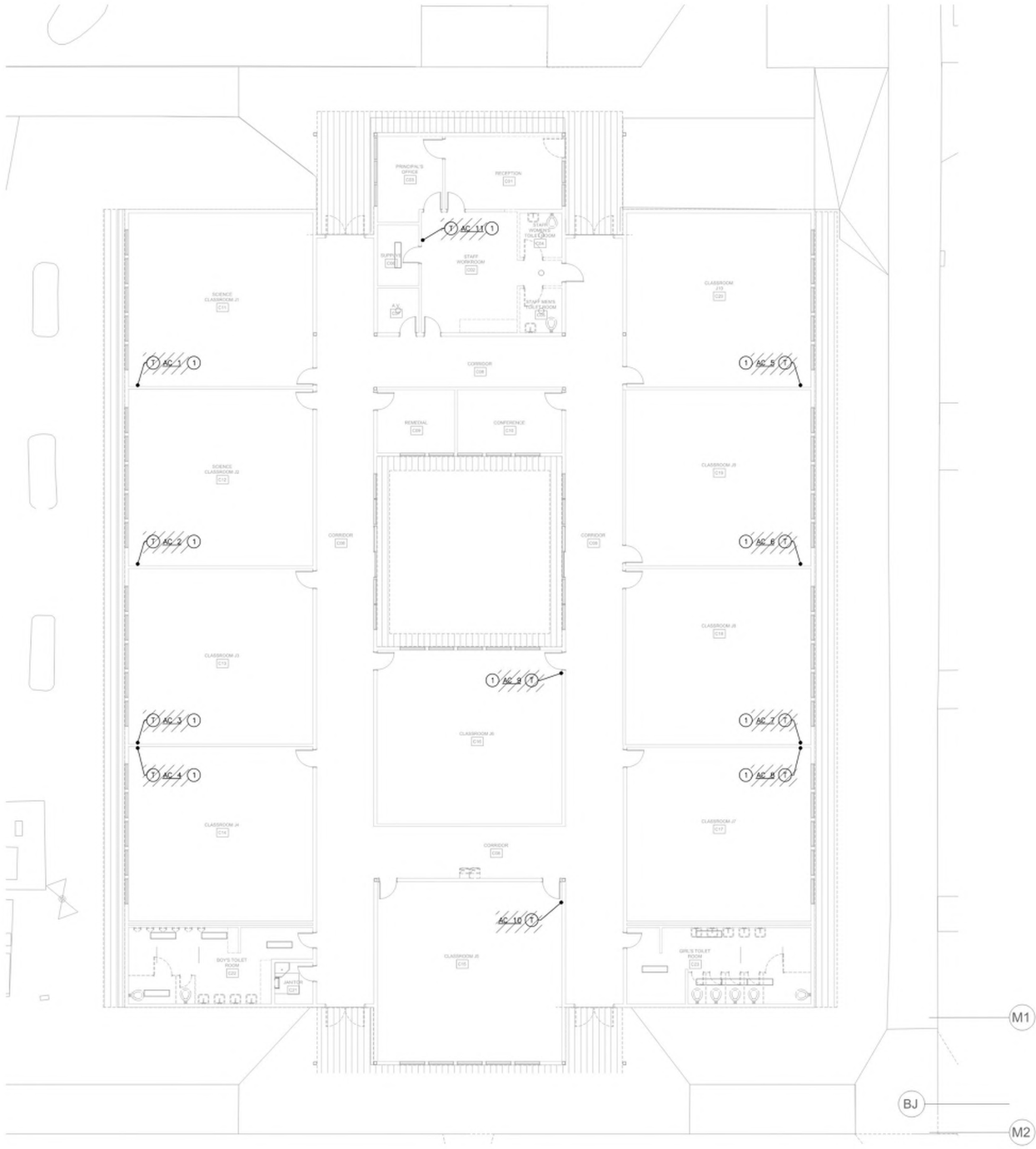
BOOK ROOM
TITLE 24

M-006

7/27/2021 9:46:11 AM



1 MECHANICAL DEMOLITION FLOOR PLAN - BUILDING C

1/8"=1'-0"

0' 2' 4' 8' 16'

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, DETERMINING EXTENT OF DEMOLITION, AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING CONDITION.

C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

KEY NOTES

(1) SAFEOFF AND REMOVE EXISTING THERMOSTAT CONTROLLER.

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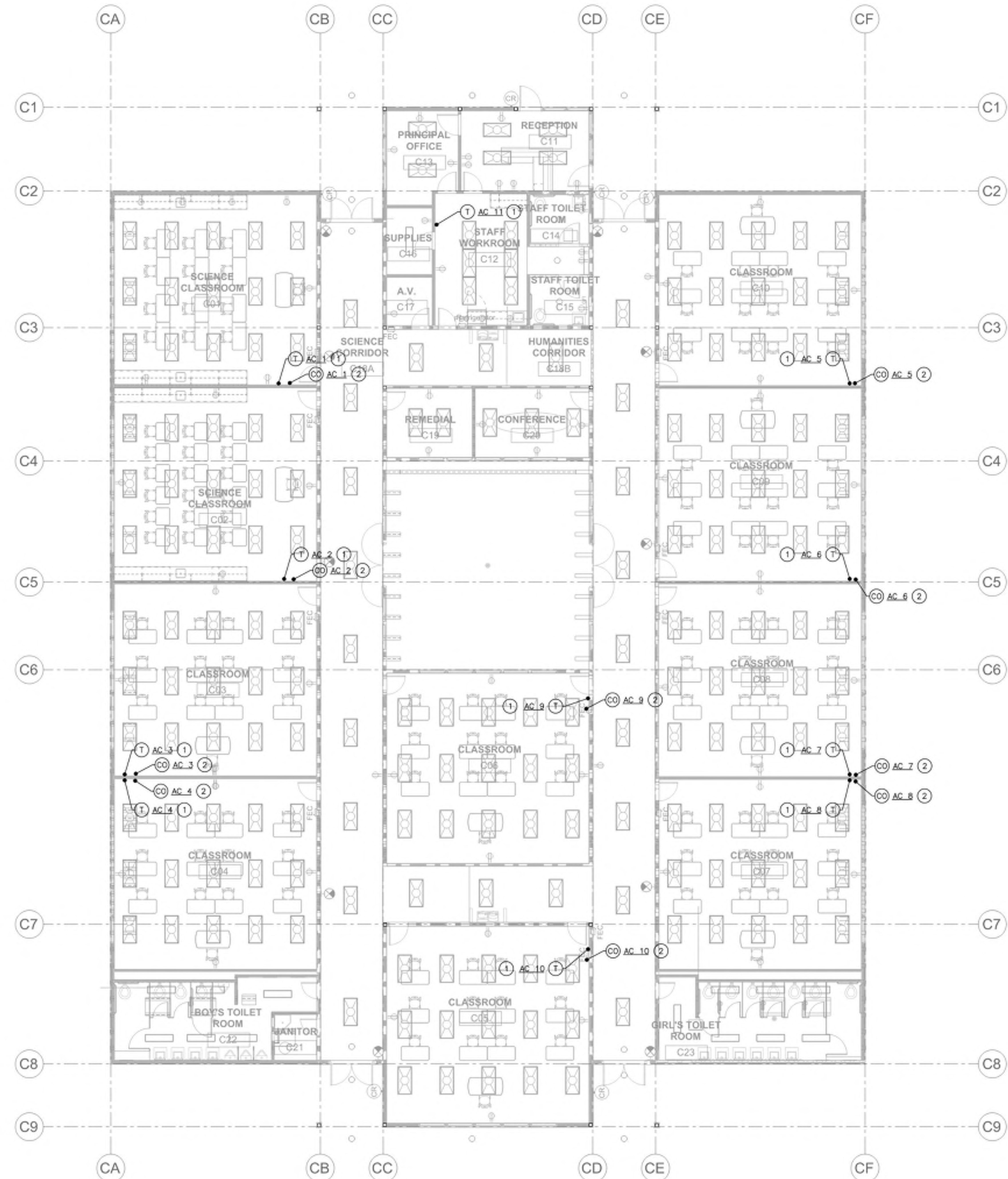
MECHANICAL DEMOLITION FLOOR PLAN BUILDING C

M-230.1

7/27/2021 9:46:11 AM



1 MECHANICAL FLOOR PLAN - BUILDING C

1/8"=1'-0"

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B. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING CONDITION.

C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

KEY NOTES

(1) INSTALL T24 COMPLIANT 7 DAY PROGRAMMABLE, WIFI CAPABLE THERMOSTAT CONTROLLER. SEE DETAIL 1/M-501 FOR MOUNTING.

(2) CO2 WALL SENSOR. MOUNT PER MANUFACTURERS INSTRUCTIONS.

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Mountain Empire Unified School Disctrict

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DAVY PROJECT No: 2017
DRAWN BY: SOBE
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MECHANICAL FLOOR PLAN BUILDING C

M-231.1

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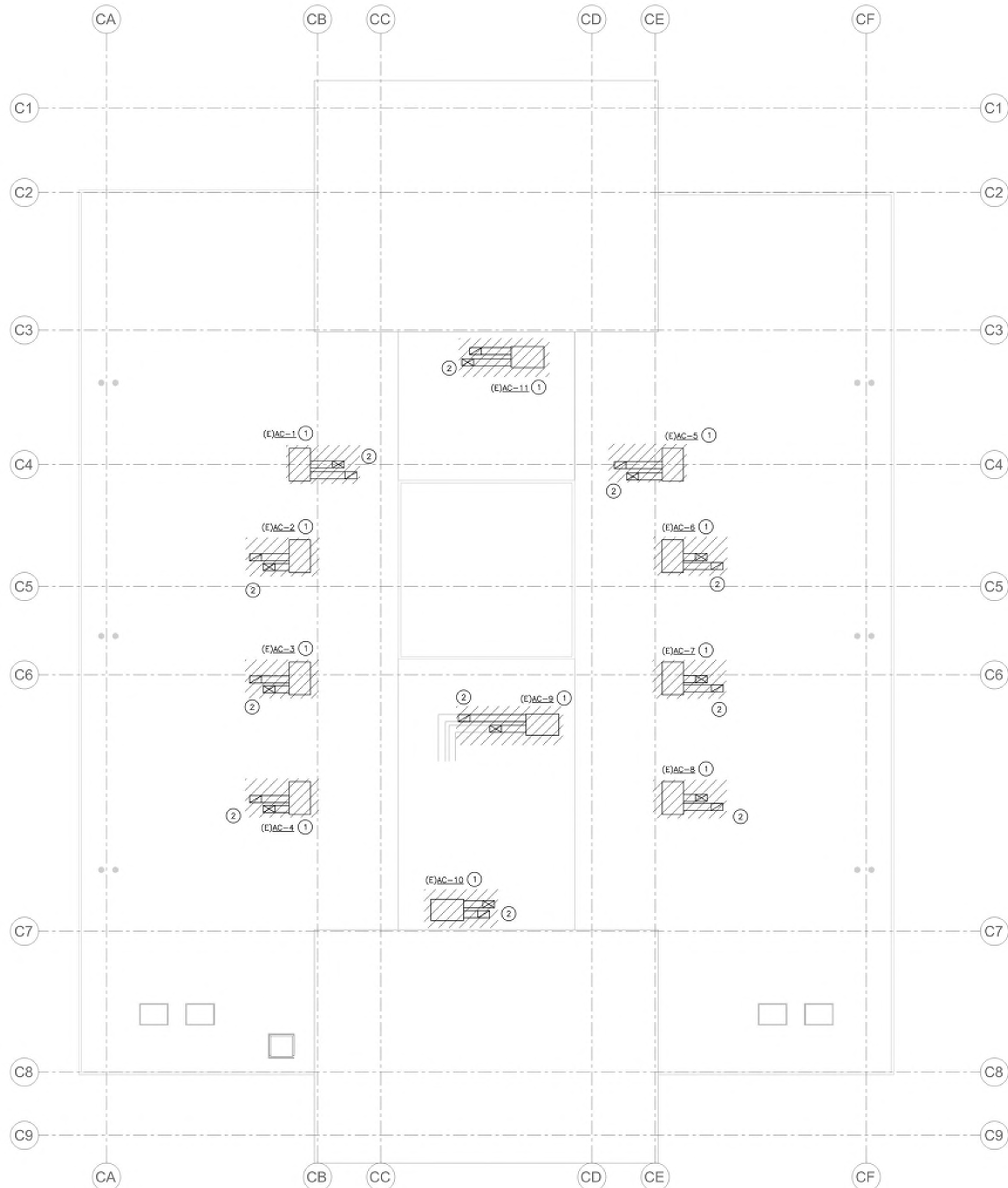

1 MECHANICAL ROOF PLAN - BUILDING C

1/8"=1'-0"

GENERAL NOTES

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B. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING CONDITION.

C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

KEY NOTES

(1) SAFEOFF AND REMOVE UNIT INCLUDING ALL ASSOCIATED CONTROLS, CURBS. SUPPORTS AND APPURTENANCES. . PREPARE FOR NEW LIKE KIND INSTALL.

(2) DEMO ROOF TOP DUCTING TO POINT OF ROOF PENETRATION. DO NOT DEMO DUCT THRU ROOF, LEAVE DUCT FOR RECONNECTION TO NEW ROOF CURB AS SHOWN ON M-231.3.

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Mountain Empire Unified School District

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MECHANICAL DEMOLITION ROOF PLAN BUILDING C

M-231.2

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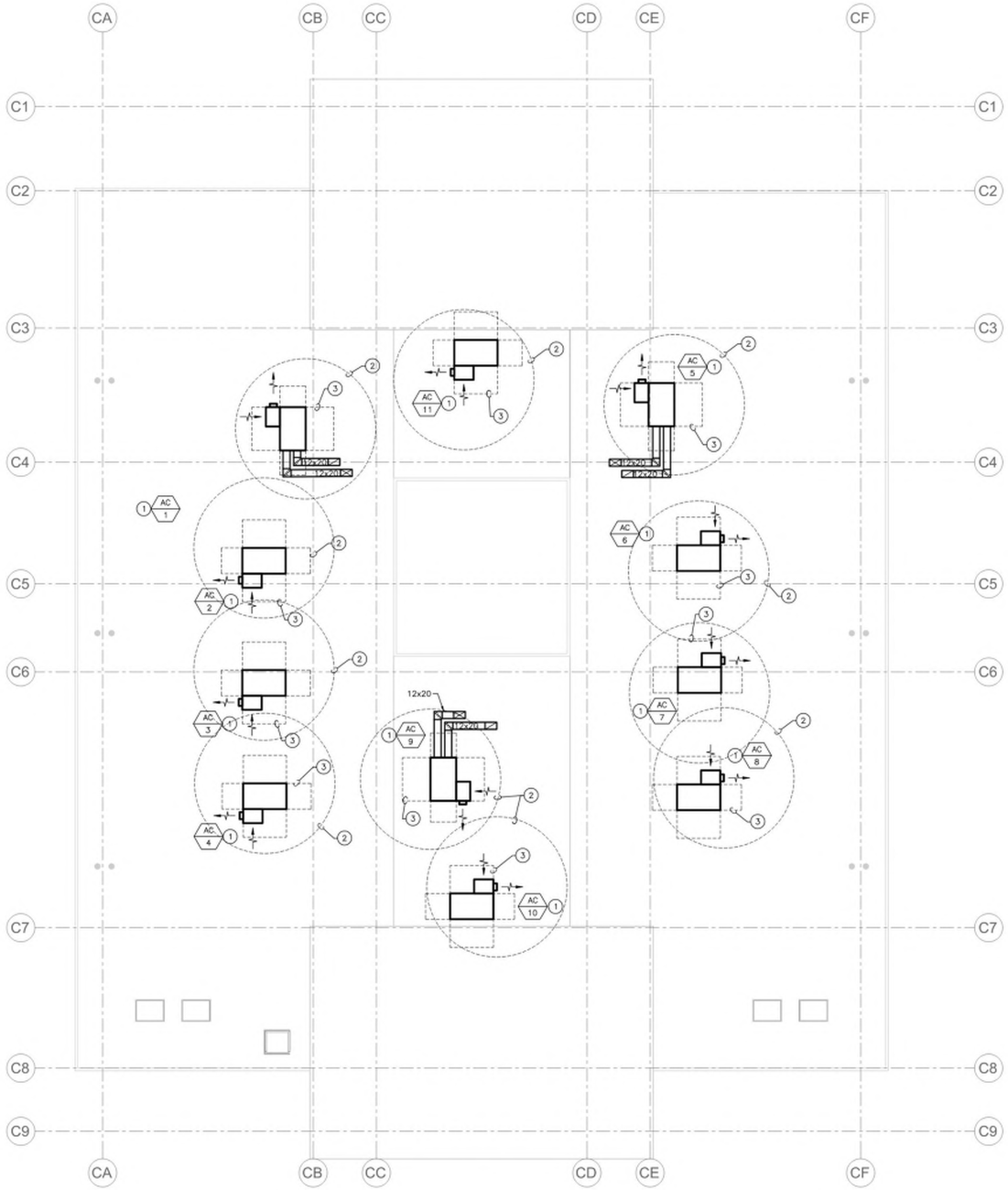

1 MECHANICAL ROOF PLAN - BUILDING C

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0' 2' 4' 8' 16'

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B. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING CONDITION.

C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

D. DUCT TAKE-OFF PER DETAIL 3/M-502.

KEY NOTES

(1) INSTALL NEW GAS/ELECTRIC UNIT. RECONNECT TO EXISTING CONDENSATE, ELECTRICAL, CONTROLS AND GAS PIPING. PROVIDE AND INSTALL SHEETMETAL TRANSITION FROM NEW CURB TO EXISTING PLENUMS AS NECESSARY.

(2) ALL EXHAUST SHALL MAINTAIN MINIMUM 10' CLEAR FROM BUILDING OPENINGS AND INTAKES.

(3) MANUFACTURERS MINIMUM AREA CLEAR FOR SERVICE AND MAINTENANCE. KEEP CLEAR FROM OBSTRUCTIONS.

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MECHANICAL ROOF PLAN BUILDING C

M-231.3

7/27/2021 9:46:11 AM

ROOFTOP PACKAGED HEAT PUMP UNIT SCHEDULE – BUILDING P-101

TAG	MANUFACTURER & MODEL NO.	SERVES	NOMINAL CAP. @ ARI COND. (TONS)	SEER (EER)	HSPF (COP)	SUPPLY FAN						COMPRESSOR			CONDENSER FAN			POWER EXH.		V/PH	UNITS POWER SUPPLY				COOLING NET CAPACITY					HEATING CAPACITY			FILTERS		OPER. WEIGHT (LBS.)	REMARKS
						CFM	OA CFM	ESP (IN. W.G.)	NO.	HP	FLA	NO.	RLA	LRA	NO.	HP	FLA	CFM	ESP	HP	MCA	MOCP	V	PH	TOTAL (MBH)	SENS. (MBH)	EDB (°F)	EWB (°F)	AMB (°F)	SENS. (MBH)	EDB (°F)	AMB (°F)	QTY	SIZE (IN.)		
RTU 1	CARRIER 50GCQM04	P101	3	16.2	8.3	1200	240	.05	1	---	5.1	1	15.1	84	1		1.5	N/A	N/A	(FLA)	25.8	40	208	1	35.8	27.3	80	63	93	34.3	70	47	2	16X25X2	680	1 2 3 4 5 6 7 8 9

1. PROVIDE WITH MANUAL OA DAMPER AND RAIN HOOD.
2. PROVIDE WITH PRE-FABRICATED LEVEL ROOF CURB AND CANT, SEE DETAIL 2/M-501.
3. PROVIDE WITH INTERNALLY MOUNTED FILTER RACK.
4. PROVIDE UL900 (CLASS 1 OR 2) 2" MERV 13 DISPOSABLE PLEATED FILTER.
5. PROVIDE WITH PROGRAMMABLE THERMOSTAT, SEE DETAIL 1/M-501.
6. PROVIDE WITH FUSED DISCONNECT SWITCH. FOR WIRING, SEE DETAIL 3/M-501.
7. PROVIDE ALL CONTROL WIRING IN CONDUIT AND ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
9. PROVIDE WITH NON-CFC REFRIGERANT BASED SYSTEM.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE – BOOKROOM BUILDING

HEAT PUMP

TAG	MANUFACTURER & MODEL NO.	COOLING NET CAPACITY			SEER (EER)	HEATING CAPACITY		HSPF (COP)	ELECTRICAL											OPER. WEIGHT (LBS.)
		TOTAL (MBH)	SENS. (MBH)	AMB. (°F)		SENS. (MBH)	AMB. (°F)		COND. FAN			COMPRESSOR			UNITS POWER SUPPLY				
									NO.	HP	FLA	NO.	RLA	LRA	MCA	MOCP	V	PH		
HP 1	LG LSU363HLV3	36	25.2	93	18.5 (10)	38.9	29	11	1	---	0.25	1	15.3		23	30	208	1		160

FAN COIL UNIT

TAG	MANUFACTURER & MODEL NO.	SERVES	CFM	ESP (IN. W.G.)	MIN. OA CFM	COOLING		HEATING	ELECTRICAL								FILTERS		OPER. WEIGHT (LBS.)	REMARKS
						EDB (°F)	EWB (°F)	EDB (°F)	EVAP. FAN			UNITS POWER SUPPLY					QTY	SIZE		
									NO.	HP	FLA	MCA	MOCP	V	PH					
FC 1	LG LSN363HLV3	BOOK ROOM	1100	0.1	150	80.2	63.9	64.9	8	8	8	8	8	8	8		1	WASHABLE	50	1 2 3 4 5 6 7 8 9 10

1. PROVIDE REFRIGERANT PIPING AND INSULATION INCLUDING FULL REFRIGERANT CHARGE. SIZES SHALL BE BASED ON FINAL DEVELOPED LENGTH AND MANUFACTURER'S REQUIREMENTS. PROVIDE ALL REFRIGERANT ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION. VERIFY SIZING WITH MANUFACTURER'S REP. PRIOR TO INSTALLATION, SEE DETAILS 5/M-501 AND 6/M-501.
2. PROVIDE WITH NON-CFC REFRIGERANT BASED SYSTEM.
3. FOR WALL MOUNTED FAN COIL UNIT MOUNTING DETAIL, SEE MANUFACTURER'S WRITTEN INSTRUCTIONS, RECOMMENDATIONS AND DETAIL 8/M-502.
4. PROVIDE FAN COIL WITH INTEGRAL CONDENSATE PUMP AND SECONDARY CONDENSATE DRAIN OVERFLOW CUTOUT SWITCH.
5. PROVIDE WITH PROGRAMMABLE THERMOSTAT, SEE DETAIL 1/M-501.
6. PROVIDE CONDENSING UNIT WITH 2x2 NEOPRENE PADS, SEE DETAIL 7/M-501.
7. INDOOR FAN COIL UNIT RECEIVES POWER FROM OUTDOOR CONDENSING UNIT.
8. PROVIDE WITH FUSED DISCONNECT. FOR CONTROL DIAGRAM, SEE 8/M-501.
9. PROVIDE ALL CONTROL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED BY MANUFACTURER FOR PROPER OPERATION.
10. FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.

AIR DEVICE SCHEDULE

TAG	MANUFACTURER & MODEL NO.	TYPE	FRAME STYLE	OBD (YES/NO)	REMARKS
A	TITUS PMC	PERFORATED SUPPLY	BORDER TYPE 3	NO	1 2 3 4
B	TITUS PAR	PERFORATED RETURN/EXHAUST	BORDER TYPE 3	NO	1 2 4
C	TITUS 355FLF2	LOUVER FACE FILTERED RETURN	BORDER TYPE 3	NO	1 2 4

1. SQUARE NECK WITH ROUND ADAPTOR.
2. STEEL CONSTRUCTION.
3. MODULAR CORE WITH 4-WAY DEFLECTION, U.N.O.
4. SEE DETAIL 1/M-502.

EXHAUST FAN SCHEDULE

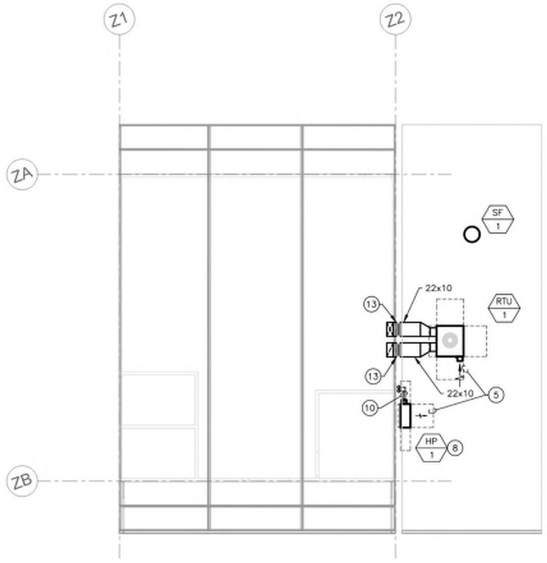
TAG	MANUFACTURER & MODEL NO.	SERVES	CFM	ESP (IN. W.G.)	DRIVE TYPE	RPM	BHP (AMPS)	HP (WATTS)	MAX. SONES	V	PH	FAN TYPE	OPER. WEIGHT (LBS.)	REMARKS
EF 1	BROAN L100	BUILDING P-101 TOILET	100	0.125	DIRECT	640	1.1	87	0.9	120	1	CEILING	25	1 2 3 4 5 6 7
EF 2	BROAN L100	BUILDING P-101 TOILET	100	0.125	DIRECT	640	1.1	87	0.9	120	1	CEILING	25	1 2 3 4 5 6 7
EF 3	BROAN L150	BOOKROOM	150	0.125	DIRECT	710	1.3	100	1.4	120	1	CEILING	25	1 2 3 5 6 7 8

1. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER AND CEILING GRILLE.
2. PROVIDE ALL MOUNTING HARDWARE INCLUDING SEISMIC BRACING & VIBRATION ISOLATION, SEE DETAIL 9/M-501.
3. PROVIDE THERMAL OVERLOAD PROTECTION ON FAN MOTOR.
4. INTERLOCK WITH LIGHT SWITCH, SEE DETAIL 10/M-501. SEE ELECTRICAL DRAWINGS FOR LIGHT SWITCH LOCATION.
5. PROVIDE WITH DISCONNECT SWITCH, BY OTHERS.
6. PROVIDE ALL CONTROL WIRING IN CONDUIT AND ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
7. FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
8. INTERLOCK WITH SF-1, FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS VIA TIME CLOCK. SEE DETAIL 11/M-501.

SUPPLY FAN SCHEDULE

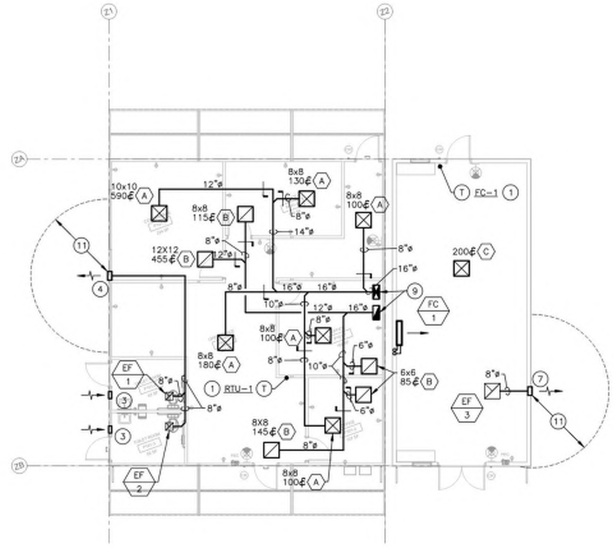
TAG	MANUFACTURER & MODEL NO.	SERVES	CFM	ESP (IN. W.G.)	DRIVE TYPE	RPM	BHP (WATTS)	HP (WATTS)	MAX. SONES	V	PH	FAN TYPE	OPER. WEIGHT (LBS.)	REMARKS
SF 1	GREENHECK AS-12-420	BOOKROOM	200	0.5	DIRECT	1750	0.08	1/4	12.6	115	1	ROOF	50	1 2 3 4 5 6 7 8

1. PROVIDE WITH BACKDRAFT DAMPER.
2. PROVIDE ALL MOUNTING HARDWARE INCLUDING SEISMIC BRACING, SEE DETAIL 12/M-501.
3. PROVIDE THERMAL OVERLOAD PROTECTION ON FAN MOTOR.
4. INTERLOCK WITH EF-3.
5. PROVIDE WITH DISCONNECT SWITCH, BY OTHERS.
6. FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS VIA TIME CLOCK. SEE DETAIL 11/M-501.
7. FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
8. PROVIDE UL900 (CLASS 1 OR 2) 2" MERV 13 DISPOSABLE PLEATED FILTER AT INTERIOR FILTER GRILLE.



2 MECHANICAL ROOF PLAN

1/8"=1'-0"



1 MECHANICAL FLOOR PLAN

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C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

D. DUCT TAKE-OFFS PER DETAIL 3/M-502.

KEY NOTES

1. PROVIDE TITLE 24 COMPLIANT 7 DAY PROGRAMMABLE, WIFI CAPABLE THERMOSTAT. COORDINATE WITH ARCHITECT FOR FINAL LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 1/M-501.
2. NOT USED.
3. PROVIDE 10x10 MAKE UP AIR LOUVER MINIMUM 0.33SF F.A.R. COORDINATE WITH ARCHITECT FOR FINAL LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 4/M-502.
4. PROVIDE 12x8 WATER TIGHT EXTERIOR GRADE PAINTED LOUVER WITH 1/2" BIRD SCREEN. MINIMUM 0.33SF F.A.R. COORDINATE WITH ARCHITECT FOR FINAL SIZE & LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 4/M-502.
5. MANUFACTURERS RECOMMENDED MAINTENANCE CLEARANCE. KEEP FREE OF OBSTRUCTIONS. VERIFY EXACT DIMENSIONS WITH MANUFACTURER PRIOR OF START TO WORK.
6. NOT USED.
7. PROVIDE 10x8 WATER TIGHT EXTERIOR GRADE PAINTED LOUVER WITH 1/2" BIRD SCREEN. MINIMUM 0.25SF F.A.R. COORDINATE WITH ARCHITECT FOR FINAL SIZE & LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 4/M-502.
8. PROVIDE ROOF PLATFORM. MOUNT AND ANCHOR CONDENSER PER DETAIL 7/M-501.
9. 22x10 S/A & R/A UP THRU ROOF. SEE DETAIL 7/M-502.
10. MANUFACTURERS SPECIFIED SIZED REFRIGERANT PIPING FROM HP-1 DOWN TO FC-1. SEE DETAIL 6/M-501 FOR ROOF PENETRATION.
11. ALL BUILDING EXHAUST SHALL MAINTAIN MINIMUM 10' CLEAR FROM BUILDING OPENINGS AND INTAKES.
12. PROVIDE 4" WEATHER RESISTANT SLEEVE WITH FLEXIBLE JOINT BETWEEN BUILDING FOR DUCTWORK ROUTING BETWEEN BUILDING.
13. PROVIDE SEISMIC JOINT AT DUCTWORK.

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

MECHANICAL FLOOR PLANS BUILDINGS P101 AND BOOKROOM

M-251

7/27/2021 9:46:11 AM

WALL MOUNTED PACKAGED HEAT PUMP UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	SERVES	NOMINAL CAP. @ ARI COND. (TONS)	SEER (EER)	HSPF (COP)	SUPPLY FAN CFM	SUPPLY FAN OA CFM	SUPPLY FAN ESP (IN. W.G.)	SUPPLY FAN NO.	SUPPLY FAN HP	SUPPLY FAN FLA	UNITS POWER SUPPLY MCA	UNITS POWER SUPPLY MOCP	UNITS POWER SUPPLY V	UNITS POWER SUPPLY PH	COOLING NET CAPACITY TOTAL (MBH)	COOLING NET CAPACITY SENS. (MBH)	COOLING NET CAPACITY EDB (°F)	COOLING NET CAPACITY EWB (°F)	COOLING NET CAPACITY AMB (°F)	HEATING CAPACITY SENS. (MBH)	HEATING CAPACITY EDB (°F)	HEATING CAPACITY AMB (°F)	FILTERS QTY	FILTERS SIZE (IN.)	OPER. WEIGHT (LBS.)	REMARKS
HP 1	BARD W36HB-A05MP4	P104	3	(11.1)	(3.3)	1300	360	0.5	1			53	60	240	1	36.9	28.6	80	67	95	33.0	70	10	1	30x14	450	(1)(2)(3)(4)(5)(6)(7)

(1) PROVIDE UL900 (CLASS 1 OR 2) 2" MERV 13 DISPOSABLE PLEATED FILTER.
(2) PROVIDE WITH PROGRAMMABLE THERMOSTAT, SEE DETAIL 1/M-501.
(3) PROVIDE WITH FUSED DISCONNECT SWITCH. FOR WIRING, SEE DETAIL 6/M-502.
(4) PROVIDE ALL CONTROL WIRING IN CONDUIT AND ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
(5) FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
(6) PROVIDE WITH NON-CFC REFRIGERANT BASED SYSTEM.
(7) SUPPORT UNIT PER MANUFACTURERS INSTRUCTIONS.

AIR DEVICE SCHEDULE

TAG	MANUFACTURER & MODEL NO.	TYPE	FRAME STYLE	OBD (YES/NO)	REMARKS
A	TITUS 300RL	LOUVER FACE SUPPLY	BORDER TYPE 1	YES	(1)(3)(4)(6)
B	TITUS 350RL	LOUVER FACE RETURN/EXHAUST	BORDER TYPE 1	YES	(1)(3)(4)(5)
C	TITUS S300FS	SPRIAL MOUNTED SUPPLY	BORDER TYPE 1	NO	(2)(3)

(1) SQUARE NECK WITH ROUND ADAPTOR.
(2) SEE DETAIL 2/M-502.
(3) STEEL CONSTRUCTION.
(4) 4 WAY DIFFUSION
(5) SEE DETAIL 1/M-502.
(6) SEE DETAIL 5/M-502.

EXHAUST FAN SCHEDULE

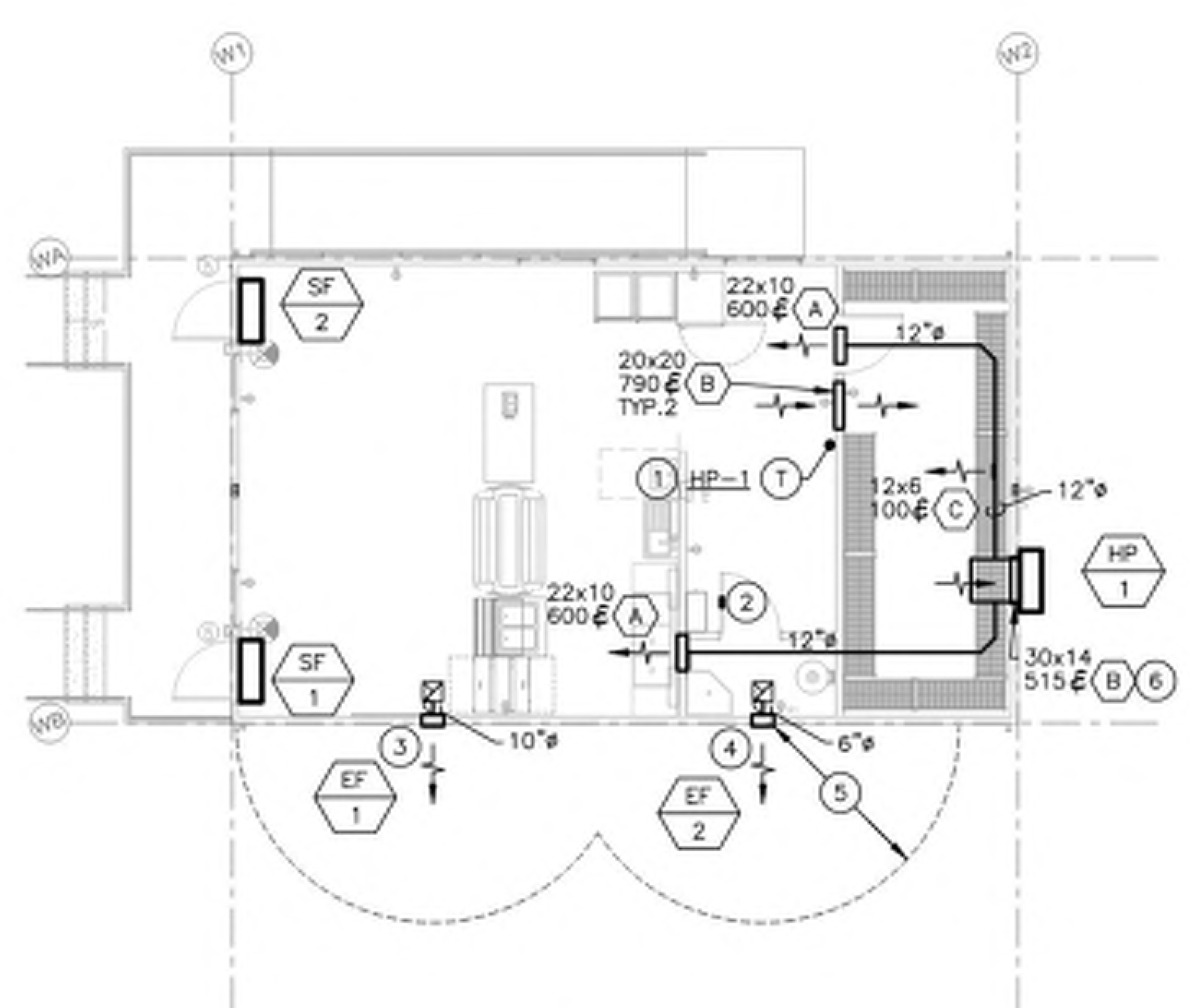
TAG	MANUFACTURER & MODEL NO.	SERVES	CFM	ESP (IN. W.G.)	DRIVE TYPE	RPM	BHP (AMPS)	HP (WATTS)	MAX. SONES	V	PH	FAN TYPE	OPER. WEIGHT (LBS.)	REMARKS
EF 1	BROAN L300	P104	325	0.125	DIRECT	305	2.6	127	2.8	120	1	CEILING	30	(1)(2)(3)(4)(5)(6)(7)(8)
EF 2	BROAN L100	JAN. CLOSET	100	0.125	DIRECT	640	1.1	87	0.9	120	1	CEILING	25	(1)(2)(5)(6)(7)(9)

(1) PROVIDE WITH INTEGRAL BACKDRAFT DAMPER AND CEILING GRILLE.
(2) PROVIDE ALL MOUNTING HARDWARE INCLUDING SEISMIC BRACING, SEE DETAIL 9/M-501.
(3) CONTROLLED BY WALL SWITCH, SEE DETAIL 10/M-501.
(4) PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER. INSTALL AT FAN HOUSING. COORDINATE CFM WITH CERTIFIED T.A.B. AGENCY.
(5) PROVIDE THERMAL OVERLOAD PROTECTION ON FAN MOTOR.
(6) PROVIDE WITH DISCONNECT SWITCH, BY OTHERS.
(7) PROVIDE ALL CONTROL WIRING IN CONDUIT AND ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
(8) FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
(9) FAN TO RUN CONTINUOUSLY.

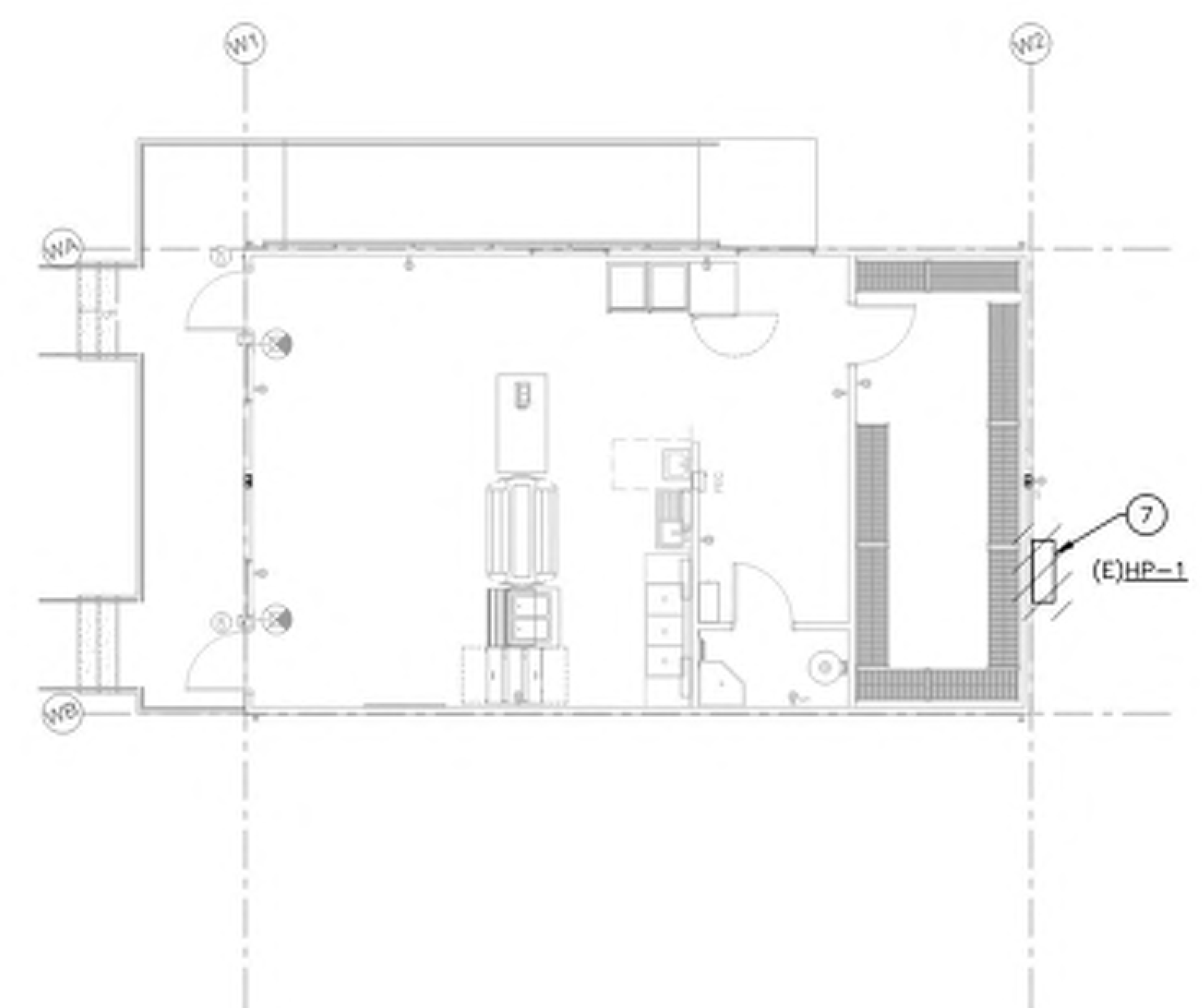
AIR CURTAIN SUPPLY FAN SCHEDULE

TAG	MANUFACTURER & MODEL NO.	AREA SERVED	CFM	ESP (IN. W.G.)	DRIVE TYPE	RPM	AMPS	HP	MAX. DBA	V	PH	FAN TYPE	OPER. WEIGHT (LBS.)	REMARKS
SF 1	MARS LPV236-1UA-OB	P104	900	0.1	DIRECT	740	2.4	1/6	49	115	1	WALL	45	(1)(2)(3)(4)
SF 2	MARS LPV236-1UA-OB	P104	900	0.1	DIRECT	740	2.4	1/6	49	115	1	WALL	45	(1)(2)(3)(4)

(1) MOUNT PER MANUFACTURERS INSTRUCTIONS.
(2) PROVIDE ALL CONTROL WIRING IN CONDUIT AND ACCESSORIES REQUIRED BY MFR FOR PROPER OPERATION.
(3) FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
(4) PROVIDE WITH MANUFACTURERS FAN SPEED CONTROLLER.
(5) INTERLOCK FAN WITH DOOR SWITCH. FAN SHALL OPERATE WHENEVER DOOR IS OPEN.



2 MECHANICAL FLOOR PLAN
1/8"=1'-0"



1 MECHANICAL DEMO PLAN
1/8"=1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, DETERMINING EXTENT OF DEMOLITION, AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, SHALL BE CLEANED AND REFURBISHED TO ORIGINAL WORKING CONDITION.

C. ALL WORK TO BE DEMOLISHED OR REMOVED SHALL NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

D. DUCT TAKE-OFF PER DETAILS 3/M-502.

KEY NOTES

(1) PROVIDE TITLE 24 COMPLIANT 7 DAY PROGRAMMABLE, WIFI CAPABLE THERMOSTAT. COORDINATE WITH ARCHITECT FOR FINAL LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 1/M-501.
(2) PROVIDE 10x10 LOUVERED TRANSFER GRILLE AT BOTH SIDES OF DOOR. MINIMUM 0.33SF F.A.R. COORDINATE WITH ARCHITECT FOR FINAL LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 4/M-502.
(3) PROVIDE 14x10 WATER TIGHT EXTERIOR GRADE PAINTED LOUVER WITH 1/2" BIRD SCREEN. MINIMUM 0.54SF F.A.R. COORDINATE WITH ARCHITECT FOR FINAL SIZE & LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 4/M-502.
(4) PROVIDE 10x8 WATER TIGHT EXTERIOR GRADE PAINTED LOUVER WITH 1/2" BIRD SCREEN. MINIMUM 0.17SF F.A.R. COORDINATE WITH ARCHITECT FOR FINAL SIZE & LOCATION PRIOR TO START OF WORK. MOUNT PER DETAIL 4/M-502.
(5) ALL BUILDING EXHAUST SHALL MAINTAIN MINIMUM 10' CLEAR FROM BUILD OPENINGS AND INTAKES.
(6) RETURN AIR GRILLE.
(7) REMOVE EXISTING WALL MOUNTED AC UNIT INCLUDING ALL CONTROLS, SUPPORTS AND APPURTENANCES. PREPARE OPENINGS FOR NEW UNIT.

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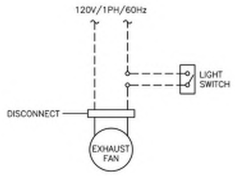
CHECKED BY: SOBE

MECHANICAL FLOOR PLANS BUILDING P104

M-271

7/27/2021 9:46:11 AM



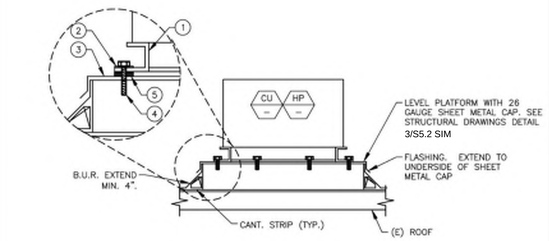
NOTE:
CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED FOR PROPER OPERATION OF SYSTEM AS RECOMMENDED BY MANUFACTURER.

WIRING PROVIDED AND INSTALLED BY DIVISION 26

WIRING PROVIDED AND INSTALLED BY DIVISION 23

EXHAUST FAN CONTROL DIAGRAM

SCALE NONE | 10

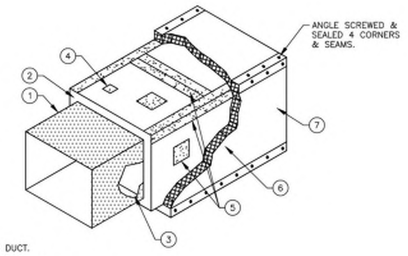


1. CHANNEL BASE
2. HOLD-DOWN CLAMP
3. LEVEL PLATFORM
4. 1/2" ANCHOR BOLTS, 3" LONG – 2 PER SIDE
5. ISO-PAD (TYP.)

NOTE: ALL PATCHING AND SEALING OF ROOF SHALL BE PERFORMED BY ORIGINAL ROOFING CONTRACTOR.

CONDENSING UNIT MOUNTING DETAIL

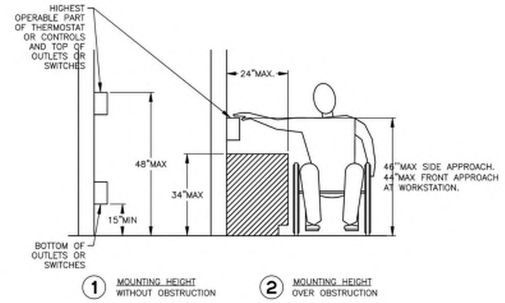
SCALE NONE | 7



1. RECTANGULAR DUCT.
2. FIBROUS BOARD INSULATION.
3. ADHESIVE SPOTTED TO ASSIST INSTALLATION.
4. MECHANICAL FASTENERS AS REQUIRED TO SECURE INSULATION.
5. VAPOR-RETARDER TAPE OVER JOINTS, BREAKS AND PENETRATIONS OF THE VAPOR-RETARDER JACKET.
6. WEATHER-BARRIER MASTIC REINFORCED WITH FABRIC OR MESH (FOR OUTDOOR APPLICATIONS).
7. ALUMINUM JACKETING.

DOUBLE WALL DUCT DETAIL

SCALE NONE | 4

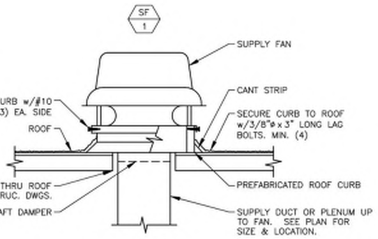


NOTE: ELECTRICAL OUTLETS, SWITCHES AND SIMILAR CONTROLS SHALL BE MOUNTED A MAXIMUM OF 48" ABOVE FINISHED FLOOR, MEASURED TO THE TOP OF THE ELECTRICAL BOX.

THE MINIMUM MOUNTING HEIGHT FOR SWITCHES AND OUTLETS IS 18"A.F.F. MEASURED FROM CENTERLINE OF ELECTRICAL BOX.

THERMOSTAT MOUNTING DETAIL

SCALE NONE | 1



NOTE:
CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED FOR PROPER OPERATION OF SYSTEM AS RECOMMENDED BY MANUFACTURER.

WIRING PROVIDED AND INSTALLED BY DIVISION 26

WIRING PROVIDED AND INSTALLED BY DIVISION 23

EXHAUST FAN CONTROL DIAGRAM

SCALE NONE | 11

NOTE: CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED FOR PROPER OPERATION OF SYSTEM AS RECOMMENDED BY MANUFACTURER.

WIRING PROVIDED AND INSTALLED BY DIVISION 26

WIRING PROVIDED AND INSTALLED BY DIVISION 23

DUCTLESS SPLIT SYSTEM CONTROL DIAGRAM

SCALE NONE | 8

NOTE: NOT A MOUNTING DETAIL.

CONDENSING UNIT PIPING DIAGRAM

SCALE NONE | 5

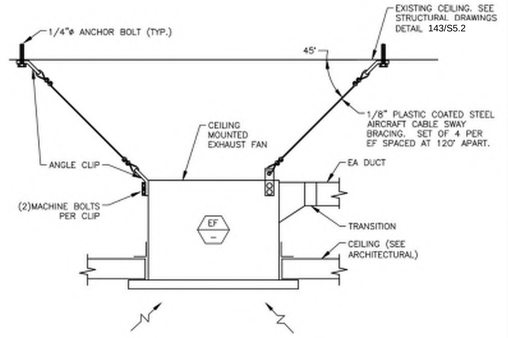
1. A/C UNIT
2. WEATHER SEAL
3. ROOF CURB
4. FLASHING
5. CANT STRIP
6. ROOF
7. SEISMIC HOLD DOWN CLIPS
8. ATTACHED TO UNIT (4 EA) #10x1/2" TEK SCREWS (8 PER CLIP)
9. LEVELING 2x WOOD SHIM BY OTHERS.
10. DUCT

ROOFTOP UNIT MOUNTING DETAIL

SCALE NONE | 2

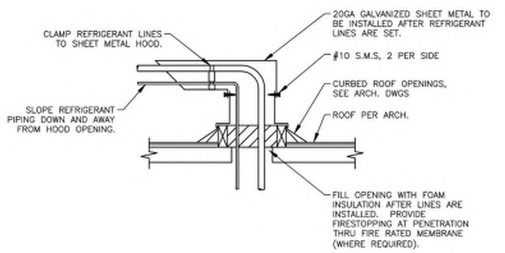
ROOF SUPPLY FAN MOUNTING DETAIL

SCALE NONE | 12



CEILING MOUNTED EXHAUST FAN DETAIL

SCALE NONE | 9

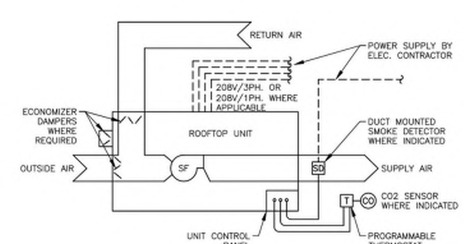


NOTE:

1. PROVIDE ALUMINUM JACKET ON EXTERIOR EXPOSED PIPING.

REFRIGERANT PIPE THRU ROOF DETAIL

SCALE NONE | 6



NOTE: CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED FOR PROPER OPERATION OF SYSTEM AS RECOMMENDED BY MANUFACTURER.

WIRING PROVIDED AND INSTALLED BY DIVISION 26

WIRING PROVIDED AND INSTALLED BY DIVISION 23

ROOFTOP UNIT CONTROL DIAGRAM

SCALE NONE | 3

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MOUNTAIN EMPIRE REDHAWKS HIGH SCHOOL

Mountain Empire Unified
School Disctrict

Project No.2017

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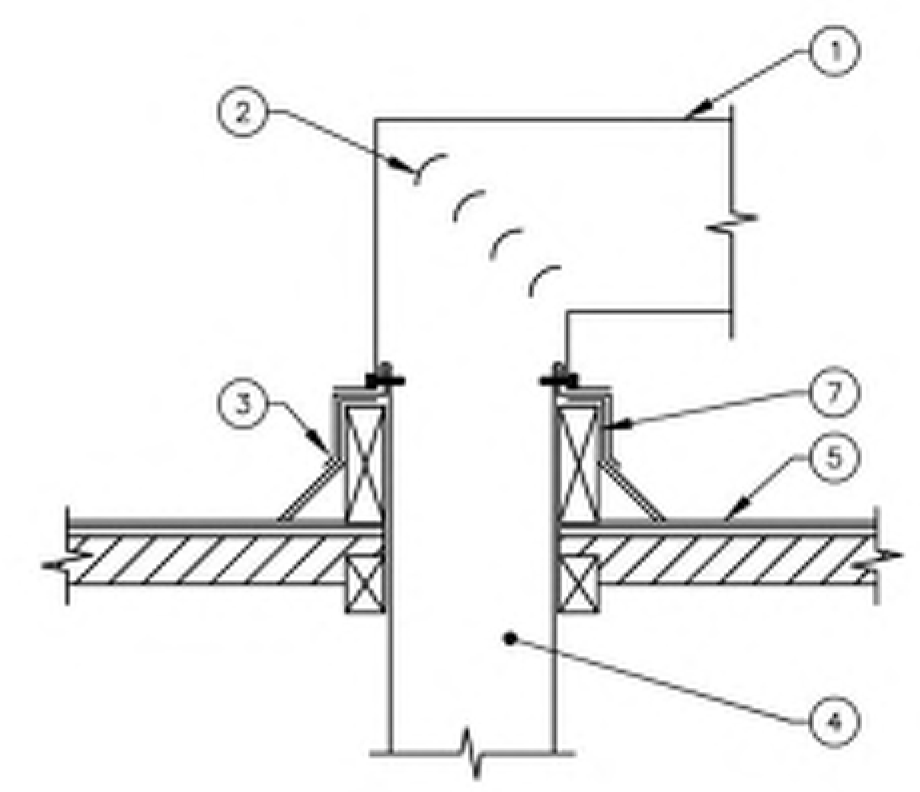
MECHANICAL DETAILS

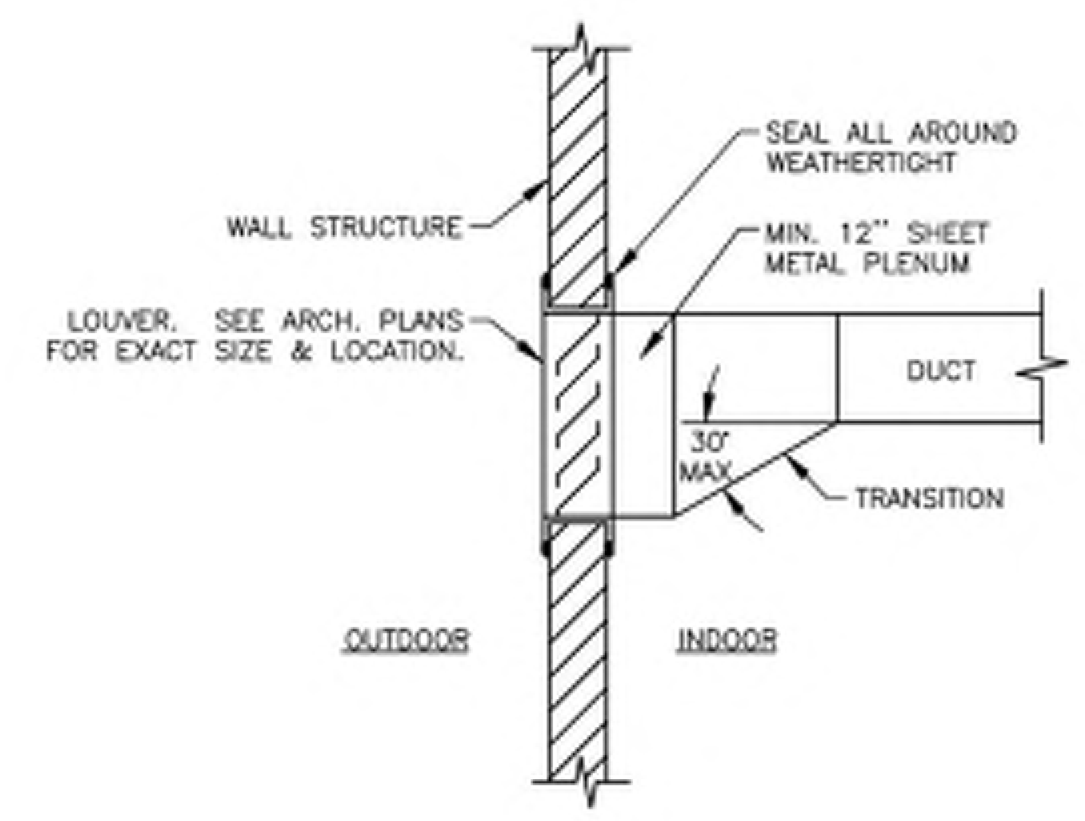
M-501

NOT USED
SCALE NONE 10

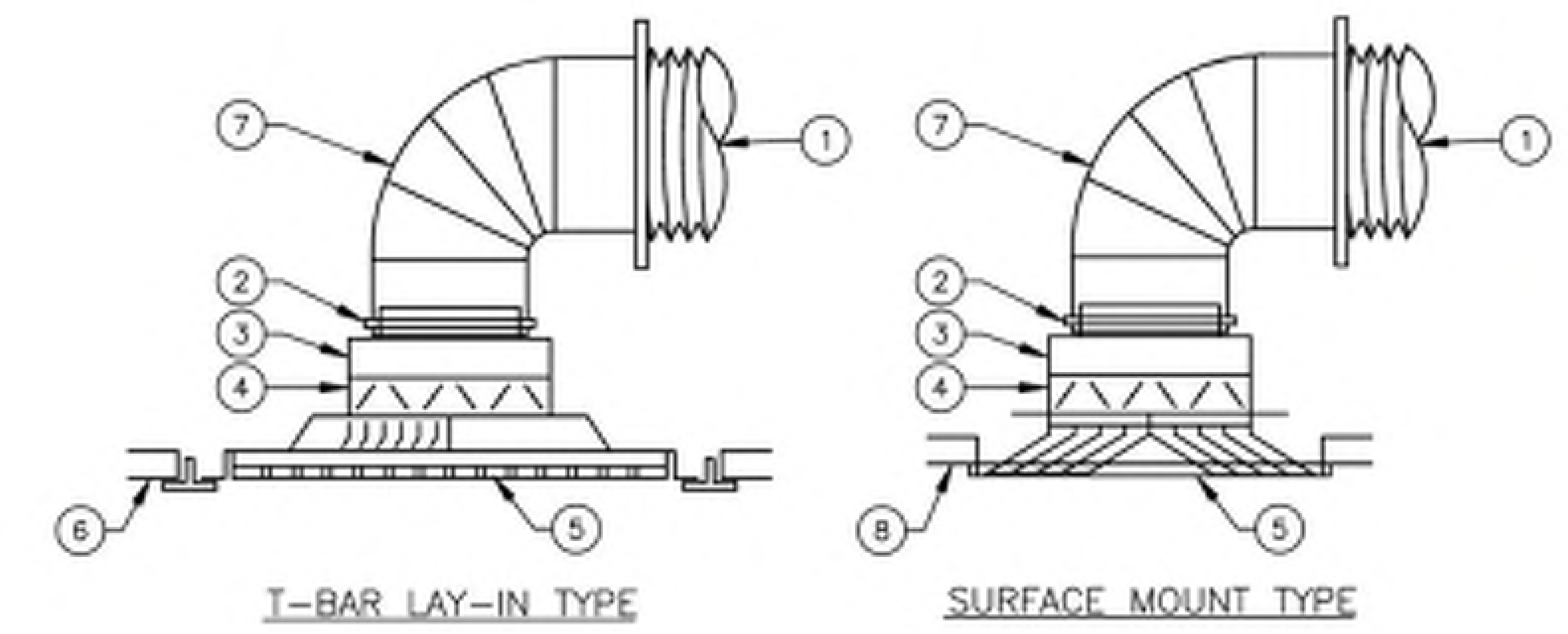


1. WATERPROOF ALL SEAMS AND JOINTS.
2. TURNING VANES.
3. FLASHING (SEE ARCH. DWGS.).
4. SUPPLY/RETURN DUCT.
5. ROOF (SEE ARCH. DWGS.).
6. BUILT-UP CURB (SEE ARCH. DWGS.).

DUCT THRU ROOF DETAIL
SCALE NONE 7



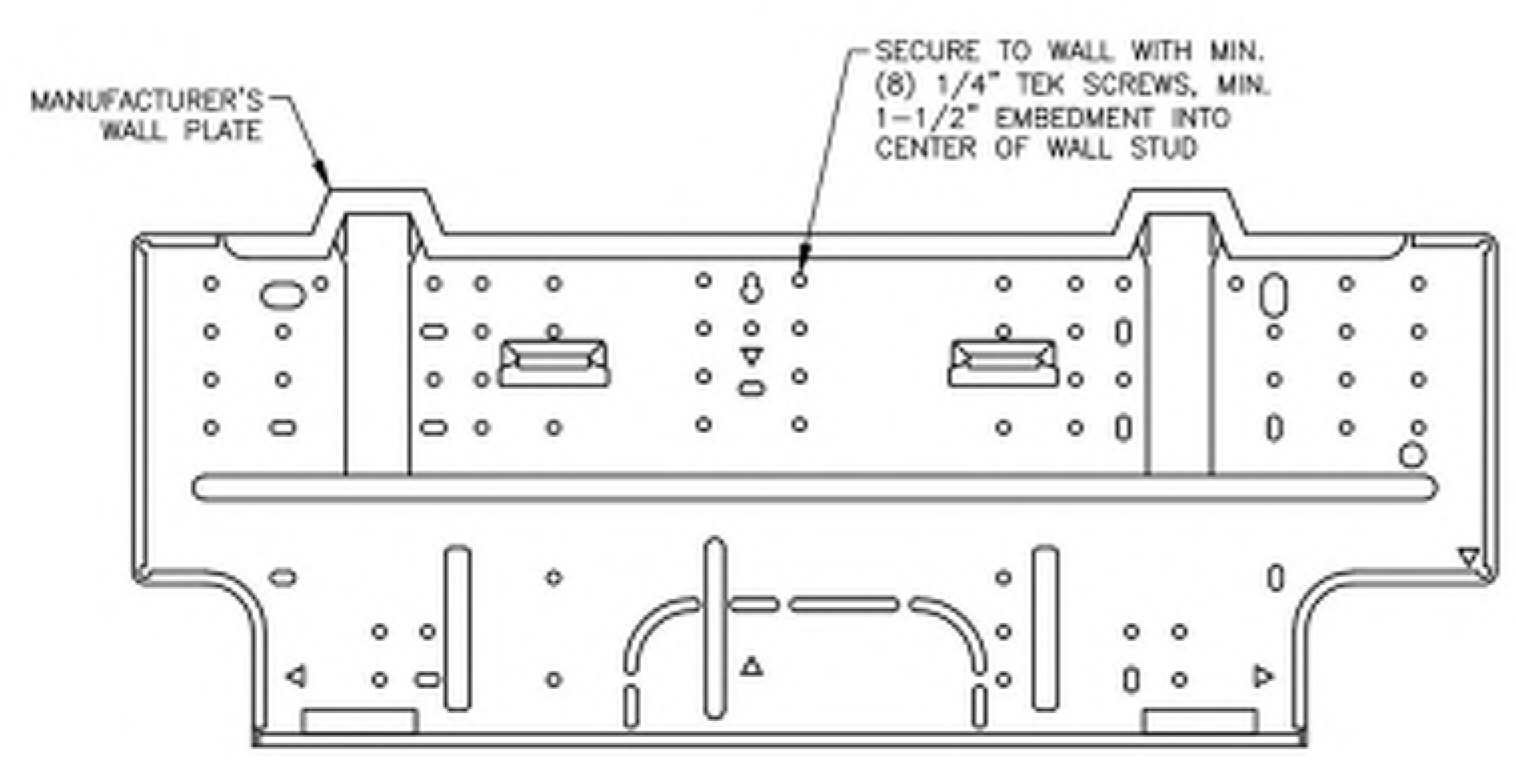
LOUVER CONNECTION DETAIL
SCALE NONE 4



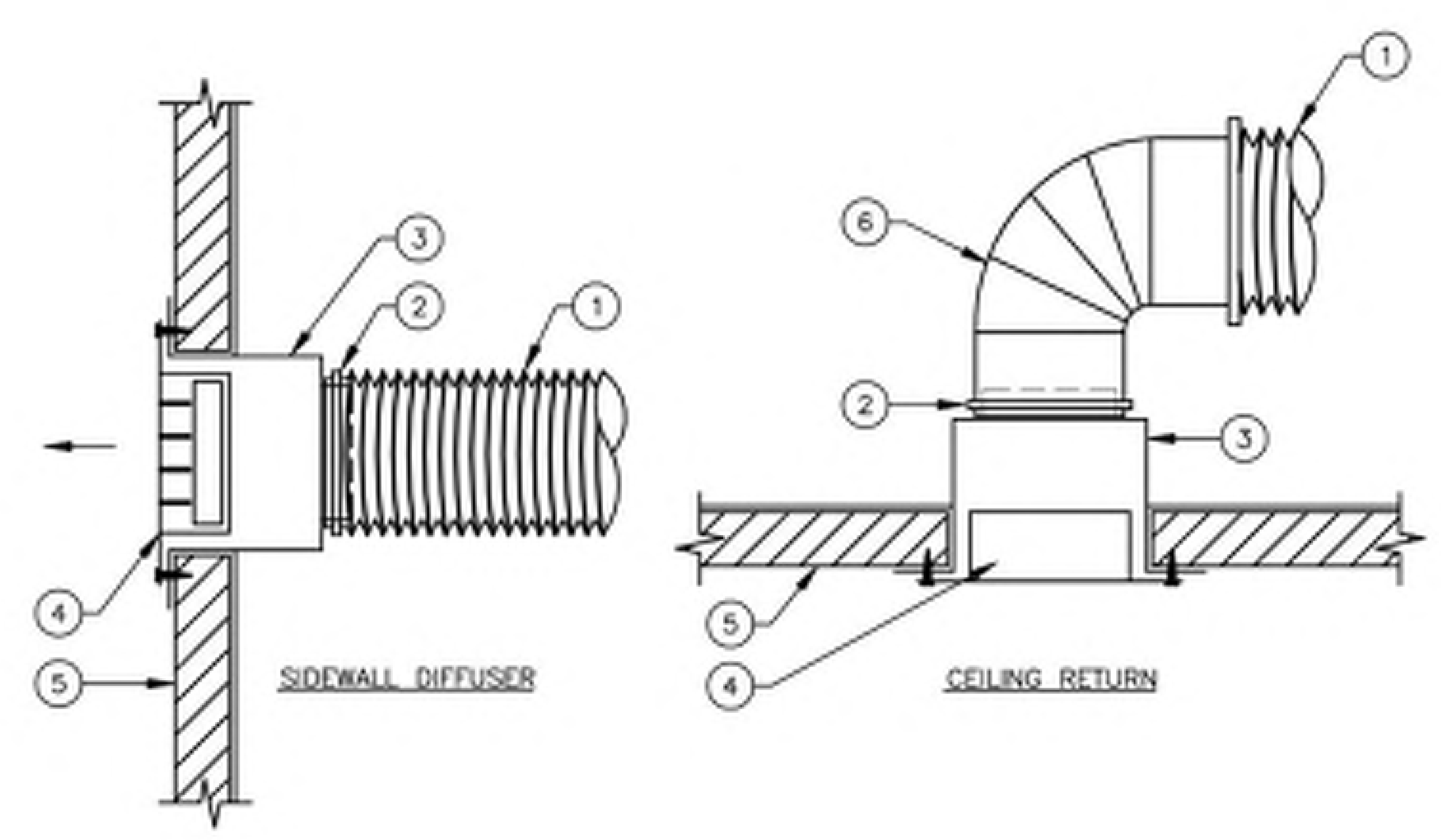
1. FLEXIBLE DUCT.
2. STAINLESS STEEL CLAMP (NO DUCT TAPE).
3. SQUARE TO ROUND ADAPTOR (WHERE INDICATED).
4. OPPOSED BLADE DAMPERS (WHERE INDICATED).
5. DIFFUSER OR GRILLE.
6. EXISTING CEILING. SEE ARCH SHEET A-910 FOR CEILING DETAILS.
7. RIGID 90° ELBOW.
8. HARD-LID CEILING.

CEILING DIFFUSER/REGISTER DETAIL
SCALE NONE 1

NOT USED
SCALE NONE 11

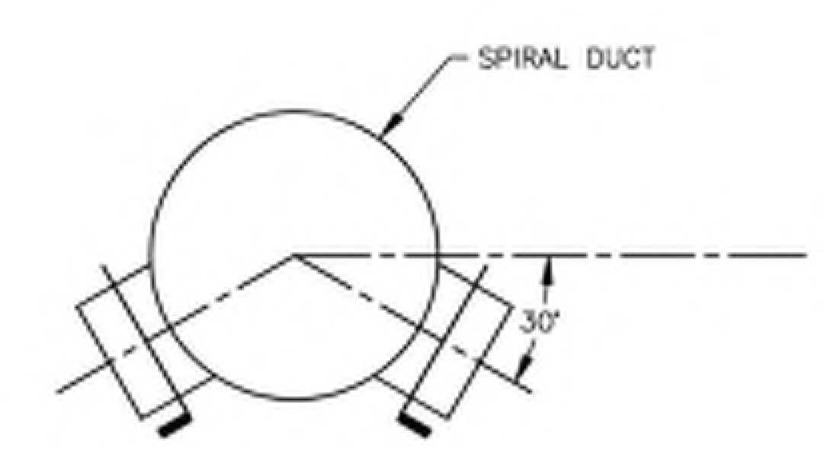


WALL MOUNTED FAN COIL UNIT DETAIL
SCALE NONE 8



1. FLEXIBLE DUCT.
2. STAINLESS STEEL CLAMP (NO DUCT TAPE).
3. SQUARE TO ROUND ADAPTOR (WHERE REQUIRED).
4. DIFFUSER OR GRILLE.
5. EXISTING CEILING. SEE ARCH SHEET A-910 FOR CEILING DETAILS.
6. 90° ELBOW.

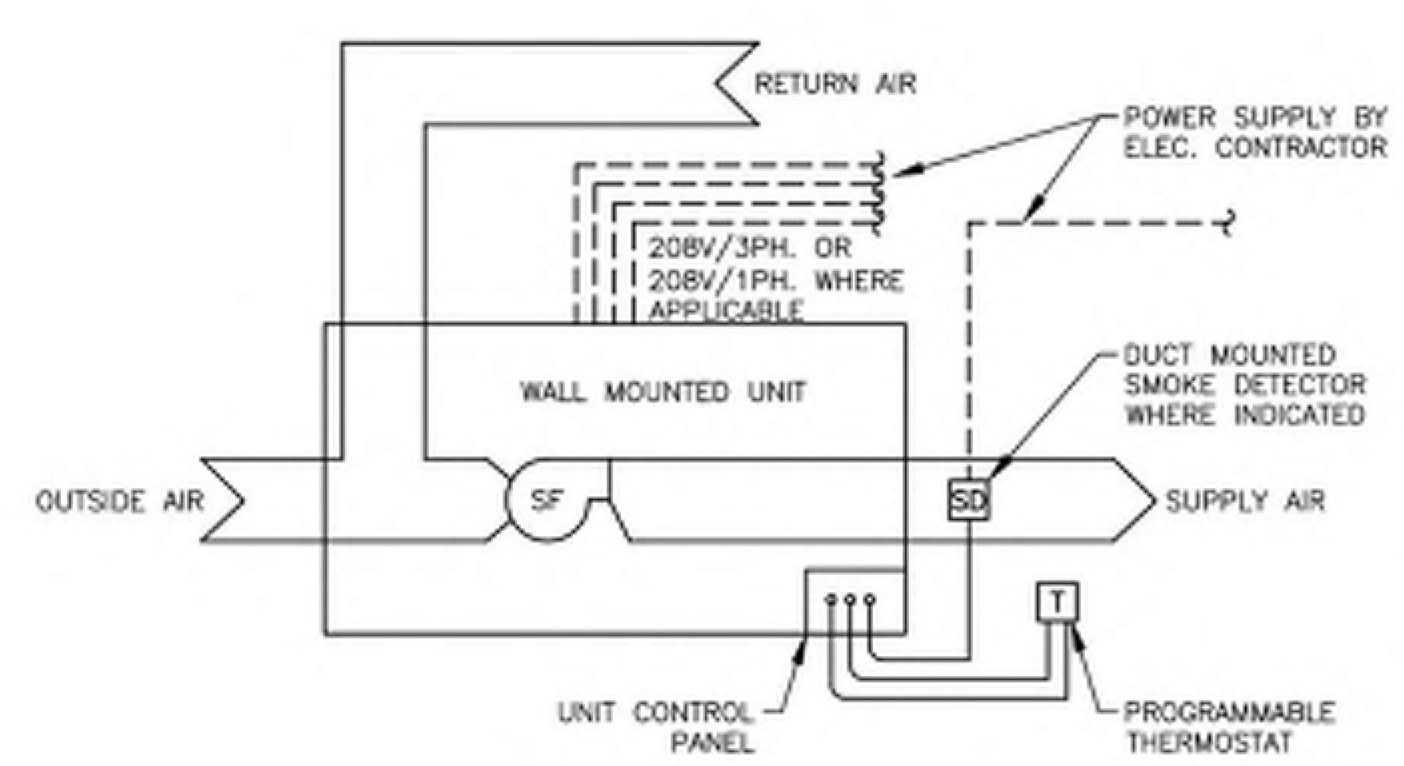
CEILING DIFFUSER/REGISTER DETAIL
SCALE NONE 5



DUCT MOUNTED SUPPLY REGISTER DETAIL
SCALE NONE 2

NOT USED
SCALE NONE 12

NOT USED
SCALE NONE 9

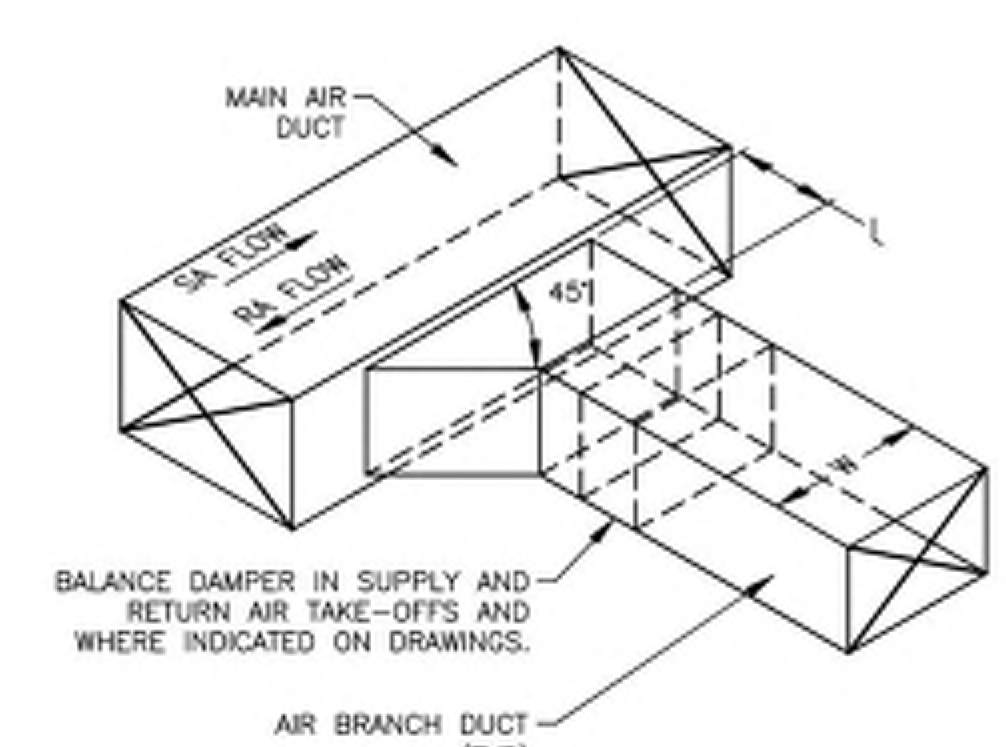


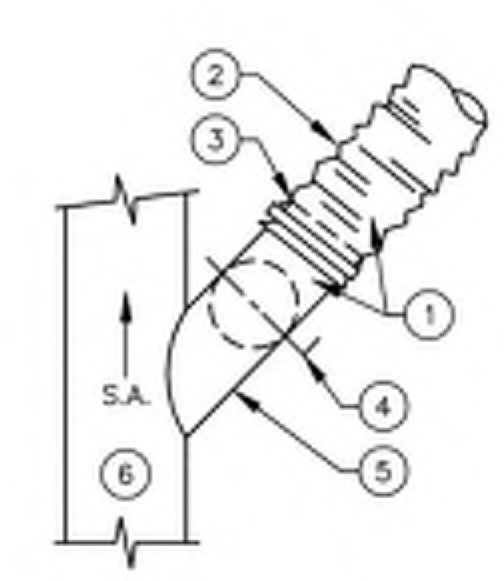
NOTE: CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED FOR PROPER OPERATION OF SYSTEM AS RECOMMENDED BY MANUFACTURER.

- - - - - WIRING PROVIDED AND INSTALLED BY DIVISION 16

——— WIRING PROVIDED AND INSTALLED BY DIVISION 15

WALL MOUNTED UNIT CONTROL DIAGRAM
SCALE NONE 6





1. SAME SIZE.
2. FLEXIBLE DUCT.
3. CLAMP (NO DUCT TAPE).
4. MANUAL BALANCING DAMPER.
5. 45° LATERAL BRANCH.
6. MAIN DUCT.

NOTE: L=1/4W (4" MIN.).

DUCT TAKE-OFF DETAIL
SCALE NONE 3

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MECHANICAL DETAILS

M-502

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S	SEWER PIPE
OW	OW	OILY WASTE PIPE
GW	GW	GREASE WASTE PIPE
PW	PW	PUMPED (FORCED) WASTE PIPE
IW	IW	INDIRECT WASTE PIPE
	V	VENT PIPE
	CW	COLD WATER PIPE
ICW	ICW	INDUSTRIAL COLD WATER PIPE
SCW	SCW	SOFT COLD WATER PIPE
	HW	HOT WATER PIPE
IHW	IHW	INDUSTRIAL HOT WATER PIPE
	HWR	HOT WATER RETURN PIPE
140	140	140°F HOT WATER PIPE
R	R	RECLAIMED WATER PIPE
G	G	LOW PRESSURE NATURAL GAS PIPE
MPG	MPG	MEDIUM PRESSURE NATURAL GAS PIPE
HPG	HPG	HIGH PRESSURE NATURAL GAS PIPE
LPG	LPG	LIQUEFIED PETROLEUM GAS PIPE
CD	CD	CONDENSATE DRAIN PIPE
SCD	SCD	SECONDARY CONDENSATE DRAIN PIPE
PCD	PCD	PUMPED CONDENSATE DRAIN PIPE
RD	RD	ROOF DRAIN PIPE
ORD	ORD	OVERFLOW ROOF DRAIN PIPE
CA	CA	COMPRESSED AIR PIPE
FCO	FCO	FLOOR CLEAN OUT
GCO	GCO	GRADE CLEAN OUT
WCO	WCO	WALL CLEAN OUT
FC	FC	FLEXIBLE CONNECTION
SOV	SOV	SHUT OFF VALVE
GC	GC	GAS COCK
CV	CV	CHECK VALVE
BV	BV	BALL VALVE
PRV	PRV	PRESSURE REDUCING VALVE
BLV	BLV	BALANCING VALVE
PTR	PTR	PRESSURE AND TEMPERATURE RELIEF VALVE
U	U	UNION
		CAPPED PIPE
CONT	CONT	CONTINUED OR CONTINUATION
TP	TP	TRAP PRIMER LINE
WHA	WHA	WATER HAMMER ARRESTOR
RPBP	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
HB	HB	HOSE BIBB
		PIPE DOWN OR DROP
		PIPE UP OR RISE
		VALVE ON DROP
		VALVE ON RISE
T	T	THERMOMETER
AS	AS	AQUASTAT
P.O.D.	P.O.D.	POINT OF DISCONNECT
POC	POC	POINT OF CONNECTION
AD, FD	AD, FD	AREA DRAIN OR FLOOR DRAIN
FS, RR	FS, RR	FLOOR SINK OR ROOF RECEPTOR
VTR	VTR	VENT THROUGH ROOF
DEMO	DEMO	DEMOLITION OR DEMOLISH
RELO	RELO	RELOCATE
CIRC PUMP	CIRC PUMP	CIRCULATING PUMP
DIA, DIAM	ø	DIAMETER

ABBREVIATION	DESCRIPTION
ABV	ABOVE
A/C	ABOVE CEILING
AGA	AMERICAN GAS ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ASME	AMERICAN SOCIETY FOR MECHANICAL ENGINEERS
ASSE	AMERICAN SOCIETY FOR SANITARY ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
A/G	ABOVE GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT OR ARCHITECTURAL
BT	BATH TUB
BEL	BELOW
B/F	BELOW FLOOR
B/G	BELOW GRADE
BOP	BOTTOM OF PIPE
B/S	BELOW SLAB
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CMC	CALIFORNIA MECHANICAL CODE
CPC	CALIFORNIA PLUMBING CODE
CI	CAST IRON
CISPI	CAST IRON SOIL PIPE INSTITUTE
CLG	CEILING
CP	CIRCULATION PUMP
CL	CLARIFIER
CLR	CLEAR
CONC	CONCRETE
CONN	CONNECT OR CONNECTION
CONTR	CONTRACTOR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
°C	DEGREES CELSIUS
°F	DEGREES FAHRENHEIT
DIV	DIVISION
DWG(S)	DRAWING(S)
EA	EACH
(E)	EXISTING
ELEC	ELECTRICAL
ELEV	ELEVATION
ET	EXPANSION TANK
FF	FINISHED FLOOR
FPM	FEET PER MINUTE
FLR	FLOOR
FT	FEET OR FOOT
FU	FIXTURE UNIT
FOG	FAT, OIL, AND GREASE
GA	GAUGE
GALV	GALVANIZED
GPC	GALLONS PER CYCLE
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GD	GARBAGE DISPOSAL
HD	HEAD
GI	GREASE INTERCEPTOR
HDR	HEADER
HR	HOUR
IM	ICE MAKER SUPPLY BOX
IES	ILLUMINATING ENGINEERS SOCIETY
IND	INDIRECT
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBERS AND MECHANICAL OFFICIALS
IBC	INTERNATIONAL BUILDING CODE
IMC	INTERNATIONAL MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE
INV	INVERT
IE	INVERT ELEVATION
KEC	KITCHEN EQUIPMENT CONTRACTOR
KG	KILOGRAMS
KPQ	KILOPASCALS
KS	KITCHEN SINK
LS	LAUNDRY SINK
L, LAV	LAVATORY
L/S	LITERS PER SECOND
LPF	LITERS PER FLUSH
MH	MANHOLE
MFR	MANUFACTURER
MSS	MANUFACTURERS STANDARDIZATION SOCIETY
MAX	MAXIMUM
MECH	MECHANICAL
MSA	MEDIUM PRESSURE GAS METER SET ASSEMBLY
MIL	0.001 INCH
mm	MILLIMETER
MIN	MINIMUM
MS	MOP SINK
MTD	MOUNTED
NSF	NATIONAL SANITATION FOUNDATION
NPSH	NET POSITIVE SUCTION HEAD
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
PLBG	PLUMBING
PDI	PLUMBING AND DRAINAGE INSTITUTE
PE	POLYETHYLENE
LBS	POUNDS
PSIG	POUNDS PER SQUARE INCH GAUGE
PD	PRESSURE DROP
QTY	QUANTITY
REQ'D	REQUIRED
RI	ROUGH-IN
SCH	SCHEDULE
SH	SHOWER
SOV	SHUT-OFF VALVE
SPEC	SPECIFICATION
SF	SQUARE FEET
SS	STAINLESS STEEL
STRUC	STRUCTURAL
TEMP	TEMPERATURE
MBH	THOUSANDS OF BRITISH THERMAL UNITS PER HOUR
THRU	THROUGH
TDH	TOTAL DEVELOPED HEAD
TDL	TOTAL DEVELOPED LENGTH
TEL	TOTAL EQUIVALENT LENGTH
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UL	UNDERWRITERS LABORATORIES
UBC	UNIFORM BUILDING CODE
UMC	UNIFORM MECHANICAL CODE
UPC	UNIFORM PLUMBING CODE
UR	URINAL
VCP	VITRIFIED CLAY PIPE
V/PH/Hz	VOLTS/PHASE/HERTZ
WB, WSB	WASHING MACHINE SUPPLY BOX
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER
YB	YARD BOX

PLUMBING GENERAL NOTES:

1. THESE DOCUMENTS MAY NOT BE USED FOR ANY REPRODUCTION, BIDDING, OR CONSTRUCTION UNLESS AUTHORIZED, IN WRITING, BY SALAS O'BRIEN AND THE ENGINEER OF RECORD RESPONSIBLE FOR THEIR PREPARATION.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITY PIPES PRIOR TO START OF WORK. NECESSARY ADJUSTMENTS TO THE PLUMBING LAYOUT SHALL BE DONE AT NO EXTRA COST.
3. CONTRACTOR SHALL NOTIFY ALL LOCAL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE GAS COMPANY, ELECTRIC COMPANY, TELEPHONE COMPANY, AND THE WATER DEPARTMENT, ABOUT THE EXTENT OF PLUMBING WORK. ALL EXCAVATION WORK SHALL BE APPROVED BY ALL UTILITY COMPANIES TO ASSURE PREVENTION OF INTERRUPTION OF EXISTING SERVICES PRIOR TO START OF WORK.
4. ALL PLUMBING WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CALIFORNIA PLUMBING CODE, CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA ADMINISTRATIVE CODE. TITLE 24, AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE LOCAL CITY AND COUNTY CODES, AND ALL OTHER CODES HAVING JURISDICTION. IN CASE OF CONFLICT, THE MORE STRICT REGULATIONS SHALL GOVERN.
5. ALL PLUMBING WORK SHALL BE COORDINATED WITH THE WORKS OF OTHER TRADES PRIOR TO START OF WORK. NECESSARY ADJUSTMENTS SHALL BE MADE AT NO EXTRA COST.
6. FOR MINIMUM PIPE SIZE CONNECTIONS TO EACH PLUMBING FIXTURE SEE PLUMBING FIXTURE SCHEDULE. THESE VALUES ARE MINIMUM; LARGER CONNECTIONS MAY RESULT BASED ON THE DIFFERENT MANUFACTURER'S RECOMMENDATIONS.
7. MANUFACTURER'S NAMES AND MODEL NUMBERS SHOWN FOR PLUMBING FIXTURES AND EQUIPMENT ARE FOR REFERENCE ONLY. OTHER MANUFACTURERS WHICH CAN MEET THE DESIGN REQUIREMENTS OF THE PLUMBING SYSTEM MAY BE SUBSTITUTED UPON APPROVAL FROM THE ARCHITECT AND THE OWNER.
8. PROVIDE DIELECTRIC FITTINGS FOR DISSIMILAR METALS IN CONTACT.
9. PROVIDE HANGERS AND SUPPORTS FOR PIPING IN ACCORDANCE WITH THE RECOMMENDATIONS OF MSS SP-69-2003.
10. PROVIDE VALVES AT THE FOLLOWING LOCATIONS:
    A. WATER MAIN SHUT-OFF VALVE IN VALVE BOX.
    B. VALVE WITH HOSE CONNECTION ON DOWNSTREAM SIDE OF THE MAIN SHUT-OFF VALVE.
    C. SHUT-OFF VALVE ON EACH SUPPLY TO EACH FIXTURE AND EQUIPMENT ITEM NOT PROVIDED WITH CONTROL STOP OR OTHER AUXILIARY SHUT-OFF VALVE. INSTALL SHUT-OFF VALVES SO THAT STEMS EITHER ARE VERTICAL WITH HANDWHEELS OR OPERATORS ON TOP OR ARE HORIZONTAL AND SO THAT VALVES ARE EASILY ACCESSIBLE FOR OPERATION, SERVICE, REMOVAL AND REPLACEMENT.
11. PROVIDE SLEEVES FOR ALL PIPE AND TUBING PASSING THROUGH FLOORS, ROOFS, AND WALLS. PACK CAULK INTO THE SPACE AROUND THE PIPE OR TUBING. PROVIDE FLASHING FOR ALL PIPES EXTENDING THROUGH THE ROOF.
12. ALL VENT TERMINATIONS AT ROOF SHALL BE AT LEAST 10 FEET AWAY FROM OUTSIDE AIR INTAKES, OPERABLE WINDOWS, AND BUILDING OPENINGS.
13. FILL CRACKS BETWEEN FIXTURES AND WALL/FLOORS WITH SILICONE RUBBER SEALANT.
14. LOCATE, SIZE, AND INSTALL WATER HAMMER ARRESTERS IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD NO. WH-201.
15. INSTALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. SECURE FLOOR OUTLET OF FLOOR-MOUNTED FIXTURES TO DRAINAGE CONNECTIONS AND FLOOR IN A RIGID MANNER. RIGIDLY SUPPORT WALL-HUNG FIXTURES BY MEANS OF METAL SUPPORTING MEMBERS. USE CHROMIUM-PLATED BRASS BOLTS, NUTS, AND WASHERS WHERE EXPOSED. ALL CONNECTIONS SHALL BE MADE GAS-TIGHT AND WATER-TIGHT. USE OF PUTTY AND PLASTICS FOR GASKETS WILL NOT BE PERMITTED.
16. PROVIDE ALL FIXTURE COMPONENTS AS INDICATED ON DRAWINGS. PROVIDE ADDITIONAL COMPONENTS AS PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER OPERATION OF THE FIXTURES.
17. PROVIDE EACH PLUMBING FIXTURE (INCLUDING HOSE BIBBS) WITH AN INDIVIDUAL STOP OR COMPRESSION VALVE OF POLISHED CHROME-PLATED LOOSE KEY TYPE.
18. WHERE DEPTHS OR INVERTS ELEVATIONS ARE NOT INDICATED, PROVIDE MINIMUM COVERAGE (ABOVE TOP OF PIPES) AS FOLLOWS:
    A. ANY PIPING UNDER SLAB (TOP OF PIPE TO UNDERSIDE OF SLAB): 18 INCHES.
    B. CAST IRON AND COPPER PIPES IN OTHER LOCATIONS: 18 INCHES.
    C. EXCAVATE TO UNDISTURBED EARTH: CUT LEVEL AND FORM TRUE. REMOVE DEBRIS, RUBBISH AND SOFT MATERIAL (SUCH AS MUD). WHERE ROCK IS ENCOUNTERED, UNDERCUT TRENCHES 6-INCHES AND FILL WITH WELL TAMPED NEUTRAL SAND AND PEA GRAVEL TO PROPER PIPE ELEVATION. DURING EXCAVATION FREE OF STANDING WATER. UNDERCUT TRENCH 6-INCHES AND INSTALL PIPING IN A 6-INCH NEUTRAL SAND ENVELOPE.
19. BACKFILL TO A POINT 12-INCHES ABOVE TOP OF PIPING WITH EARTH (EXCAVATED MATERIAL MAY BE USED) FREE OF CLAY, DEBRIS, RUBBISH, ROCKS, OR CLODS OVER 4-INCHES IN THE GREATEST DIMENSION. BACKFILL ABOVE 12-INCHES FROM TOP OF PIPING MAY BE WITH EXCAVATED MATERIAL. APPLY BACKFILL BY HAND IN 6-INCH DEEP LAYERS THE FULL WIDTH OF THE TRENCH. MOISTEN EACH LAYER (DO NOT FLOOD OR PUDDLE), AND HAND TAMP TO A MINIMUM 90 PERCENT COMPACTION BEFORE PROCEEDING WITH THE NEXT LAYER OF BACKFILL.
20. DO NOT EXCAVATE UNDER FOUNDATIONS OR FOOTINGS EXCEPT IN MANNER PERMITTED BY THE ARCHITECT. DO NOT BACKFILL UNTIL INSTALLED PIPING HAS BEEN SUCCESSFULLY TESTED.
21. VERIFICATION OF WATER AGENCY APPROVAL SHALL BE SUBMITTED TO THE BUILDING AND SAFETY DIVISION PRIOR TO ISSUANCE OF A PLUMBING PERMIT FOR THIS PROJECT.
22. ALL PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL BE PACKED WITH APPROVED FIRE PROOFING. FOR LOCATIONS OF FIRE RATED ASSEMBLIES, SEE ARCHITECTURAL PLANS.
23. ROUTE ALL PIPES AS HIGH AS POSSIBLE IN EXPOSED LOCATIONS. COORDINATE ROUTING WITH ALL OTHER TRADES PRIOR TO START OF WORK.
24. NO SPRAY FOAM INSULATION SHALL BE APPLIED TO AREAS CONTAINING PEX PIPING.

PLUMBING MANDATORY MEASURES

1. ALL PLUMBING SYSTEM COMPONENTS SHALL MEET OR EXCEED THE REQUIREMENTS OF CURRENT CBC, CMC, CPC, NEC, NFPA, ASTM, ANSI, AND ALL LOCAL AND STATE CODE REQUIREMENTS. (SEE BELOW)
2. ALL PLUMBING EQUIPMENT LISTED IN OF THE 2019 CALIFORNIA CODE OF REGULATIONS (CCR), TITLE-24, PART 6, SECTION 110.3 ENERGY EFFICIENCY STANDARDS MUST BE CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CEC.
3. ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADOPTED BY THE CEC IN ACCORDANCE WITH THE 2019 CALIFORNIA CODE OF REGULATIONS (CCR), TITLE-24, PART 6, SECTION 110.3 RESIDENTIAL NON-RESIDENTIAL.
4. ALL GAS APPLIANCES MUST HAVE PILOTLESS IGNITION SYSTEM IN ACCORDANCE WITH SECTION 110.5 OF THE 2019 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6, ENERGY EFFICIENCY STANDARDS, TABLE 4-4.
5. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET 2019 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6, ENERGY EFFICIENCY STANDARDS, SECTION 120.3 AND TABLE 4-15.
6. ALL INSULATION INSTALLED SHALL MEET THE FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF 2019 CBC, PART 1, SECTION 720 AND 2019 CMC. SECTION 602.2.
7. ALL PIPING EXPOSED TO WEATHER SHALL BE METALLIC.
8. ALL FERROUS PIPING EXPOSED TO WEATHER SHALL BE GALVANIZED AND PAINTED.
9. ALL PIPES, FITTINGS AND FIXTURES USED TO CONVEY POTABLE WATER SHALL BE LEAD FREE IN COMPLIANCE WITH CPC SECTION 604.2.
10. ALL FIXTURES REQUIRED TO BE ACCESSIBLE SHALL BE INSTALLED AS PER THE LATEST REQUIREMENTS OF TITLE 24 AND ADA (AMERICANS WITH DISABILITIES ACT).
11. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
12. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH CPC SECTION 608.5.
13. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER CPC SECTION 507.2.
14. WATER HEATER SHALL COMPLY WITH CPC SECTION 608.3, FOR THERMAL EXPANSION REQUIREMENTS.
15. LAVATORY FAUCETS IN PUBLIC RESTROOM SHALL BE SELF CLOSING TYPE.
16. TUB AND SHOWER COMBINATIONS SHALL BE PROVIDED WITH MIXING VALVES PER CPC SECTION 408.3.
17. SHOWERHEADS SHALL BE 1.8 GPM AT 80PSI.
18. NONRESIDENTIAL LAVATORY FAUCETS SHALL BE 0.4 GPM MAXIMUM.
19. KITCHEN FAUCETS AND WASH FOUNTAINS SHALL BE 1.8 GPM MAXIMUM.
20. METERING FAUCETS SHALL BE 0.2 GPC MAXIMUM.
21. WATER CLOSETS (GRAVITY TANK TYPE, FLUSHOMETER TANK, FLUSHOMETER VALVE AND ELECTROMECHANICAL HYDRAULIC TYPE) SHALL BE 1.28 GPF MAXIMUM.
22. FLOOR-MOUNT URINALS SHALL BE 0.5 GPF MAXIMUM. WALL-MOUNT URINALS SHALL BE 0.125 GPF MAXIMUM.
23. ALL INSTALLATION OF PEX PIPE INSTALLED IN NEW CONSTRUCTION SHALL BE FLUSHED TWICE OVER A PERIOD OF AT LEAST ONE WEEK PER CPC SECTION 604.1.2. PEX.
    1) AT THE TIME OF FILL, EACH NEW PLUMBING FIXTURE SHALL HAVE A REMOVABLE TAG APPLIED STATING:
       a. THIS NEW PLUMBING SYSTEM SHALL BE FIRST FILLED AND FLUSHED ON _____(DATE) BY _____(NAME). THE STATE OF CALIFORNIA REQUIRES THAT THE SYSTEM BE FLUSHED AFTER STANDING AT LEAST ONE WEEK AFTER THE FILL DATE SPECIFIED ABOVE. IF THIS SYSTEM IS USED EARLIER THAN ONE WEEK AFTER THE FILL DATE ABOVE. IF THIS SYSTEM IS USED EARLIER THAN ONE WEEK AFTER THE FILL DATE, THE WATER MUST BE ALLOWED TO RUN FOR AT LEAST TWO MINUTES PRIOR TO USE FOR HUMAN CONSUMPTION. THE TAG MAY NOT BE REMOVED PRIOR TO THE COMPLETION OF THE REQUIRED SECOND FLUSHING, EXCEPT BY BUILDING OWNER OR OCCUPANT.
    2) PRIOR TO ISSUING A BUILDING PERMIT TO INSTALL PEX PIPE, THE BUILDING OFFICIAL SHALL REQUIRE AS PART OF THE PERMITTING PROCESS THAT THE CONTRACTOR; OR THE APPROPRIATE PLUMBING SUBCONTRACTORS, PROVIDE WRITTEN CERTIFICATION THAT HE OR SHE WILL COMPLY WITH THE FLUSHING PROCEDURES SET FORTH BY ALL REQUIREMENTS OF GOVERNMENT CODES AND APPROVED BY DSA AND SCHOOL DISTRICT.
    3) THE BUILDING OFFICIAL SHALL NOT GIVE FINAL PERMIT APPROVAL FOR ANY PEX PLUMBING INSTALLATION UNLESS HE OR SHE FINDS THAT THE MATERIAL HAS BEEN INSTALLED IN COMPLIANCE WITH ALL REQUIREMENTS OF GOVERNMENT CODES AND APPROVED BY DSA AND SCHOOL DISTRICT. INCLUDING THE REQUIREMENTS TO FLUSH AND TAG THE SYSTEMS.
    4) ANY CONTRACTOR OR SUBCONTRACTOR FOUND TO HAVE FAILED TO COMPLY WITH THE PEX FLUSHING REQUIREMENTS SHALL BE SUBJECT TO THE PENALTIES IN HEALTH AND SAFETY CODE, DIVISION 13, PART 1.5, CHAPTER 6 (SECTION 17995, et seq.).

APPLICABLE CODES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR PART 1, TITLE 24
- 2019 CALIFORNIA BUILDING CODE (CBC), CCR TITLE 24, PARTS 1 & 2 (BASED ON THE 2018 EDITION INTERNATIONAL BUILDING CODE, VOLS. 1 & 2)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), CCR TITLE 24, PART 3 (BASED ON THE 2017 EDITION NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (CMC), CCR TITLE 24, PART 4, TITLE 24 CCR (BASED ON THE 2018 EDITION UNIFORM MECHANICAL CODE WITH CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (CPC), CCR TITLE 24, PART 5, (BASED ON THE 2018 EDITION UNIFORM PLUMBING CODE WITH CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEC), CCR TITLE 24, PART 6, AND ASSOCIATED ADMINISTRATIVE REGULATION IN PART 1.
- 2019 CALIFORNIA FIRE CODE (CFC), CCR TITLE 24, PART 9 (BASED ON THE 2018 EDITION INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), CCR TITLE 24, PART 10, (BASED ON THE 2018 EDITION INTERNATIONAL EXISTING BUILDING CODE WITH CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen), CCR TITLE 24, PART 11
- 2019 CALIFORNIA REFERENCED STANDARDS CODE, CCR TITLE 24, PART 12
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OF WARRIORS
1053 TENTH AVENUE
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SDVOSB

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MOUNTAIN EMPIRE RedHawks HIGH SCHOOL

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

PLUMBING LEGEND AND GENERAL NOTES

P-001

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MANDATORY CALGREEN CHECKLIST

WATER EFFICIENCY AND CONSERVATION INDOOR WATER USE	MANDATORY
5.303.1 METERS. SEPARATE METERS SHALL BE INSTALLED FOR THE USES DESCRIBED IN SECTIONS 5.303.1.1 AND 3.303.1.2. 5.303.1.1 BUILDINGS IN EXCESS OF 50,000 SQUARE FEET. SEPARATE SUBMETERS SHALL BE INSTALLED AS FOLLOWS: 1. FOR EACH INDIVIDUAL LEASED, RENTED OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100GAL/DAY. 2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDINGS TENANTS ARE UNFEASABLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS: a. MAKEUP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM (30L/S) b. MAKEUP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM (0.04 L/S) c. STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 Btu/h (147 kW) 5.303.1.2 EXCESS CONSUMPTION. ANY BUILDING OR A SPACE WITHIN A BUILDING THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY (3800 L/DAY)	
5.303.2 20 PERCENT SAVINGS. A SCHEDULE OF PLUMBING FIXTURES AND FIXTURE FITTINGS THAT WILL REDUCE THE OVERALL USE OF POTABLE WATER WITHIN THE BUILDING BY 20 PERCENT SHALL BE PROVIDED. (CALCULATE SAVINGS BY WATER USE WORKSHEETS) 5.303.2.1 MULTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED THE MAXIMUM FLOW RATE AT ≥ 20 PERCENT REDUCTION CONTAINED IN TABLE 5.303.2.3 OR THE SHOWER SHALL BE DESIGNED TO ONLY ALLOW ONE SHOWERHEAD TO BE IN OPERATION AT A TIME.	
5.303.4 WASTEWATER REDUCTION. EACH BUILDING SHALL REDUCE THE GENERATION OF WASTEWATER BY ONE OF THE FOLLOWING METHODS: 1. THE INSTALLATION OF WATER-CONSERVING FIXTURES OR 2. UTILIZING NONPOTABLE WATER SYSTEMS.	
5.303.6 PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE REQUIREMENTS LISTED FOR EACH TYPE IN ITEMS LISTED IN TABLE 5.303.6. 1. WATER CLOSETS (TOILETS) – FLUSHOMETER TYPE 2. WATER CLOSETS (TOILETS) – TANK TYPE 3. URINALS 4. PUBLIC LAVATORY FAUCETS 5. PUBLIC METERING SELF-CLOSING FAUCETS 6. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS 7. RESIDENTIAL KITCHEN FAUCETS 8. RESIDENTIAL SHOWER HEADS 9. SINGLE SHOWER FIXTURES SERVED BY MORE THAN ONE SHOWERHEAD	

WATER REDUCTION FIXTURE FLOW RATES

PER 2019 CALIFORNIA GREEN BUILDING CODE – TABLE A5.303.2.3.1

FIXTURE TYPE	MAXIMUM FLOW RATE
KITCHEN FAUCETS	1.8 GPM AT 60 PSI
WASH FOUNTAINS	1.8 [RIM SPACE (IN.)/20 GPM AT 60 PSI]
METERING FAUCETS	0.20 GALLONS/CYCLE
METERING FAUCETS FOR WASH FOUNTAINS	0.20 GALLONS/CYCLE/20 [RIM SPACE (IN.)@ 60 PSI]

EACH PLUMBING FIXTURE AND FITTING SHALL MEET THE FLOW RATE SPECIFIED IN 2019 CAL GREEN TABLE A5.303.2.3.1

WATER CONSERVATION FIXTURE FLOW RATES

PER 2019 CALIFORNIA GREEN BUILDING CODE SECTION 5.303.3

FIXTURE TYPE	MAXIMUM BASELINE FLOW RATE
WATER CLOSETS	1.28 GALLONS PER FLUSH
URINALS (FLOOR-MOUNT/WALL-MOUNT)	0.5/0.125 GALLONS PER FLUSH
SHOWERHEADS	1.8 GPM AT 80 PSI

PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH 5.303.3.

PLUMBING FIXTURES AND FIXTURE FITTINGS

PER 2019 CALIFORNIA PLUMBING CODE – TABLE 1701.1

REQUIRED STANDARDS	
WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/CSA B45.1 – 1.28 GPF (4.8 L)
WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.2 AND USEPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION – 1.28 GPF (4.8 L)
WATER CLOSETS (TOILETS) – TANK TYPE	U.S. EPA WATERSENSE TANK-TYPE HIGH EFFICIENCY TOILET SPECIFICATION
URINALS, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/CSA B45.1 – 0.5 GPF (1.9 L)
URINALS, NONWATER URINALS	ASME A 112.19.19 (VITREOUS CHINA) ANSI Z124.9-2004 OR IAPMO Z124.9 (PLASTIC)
PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE – 0.5 GPM (1.9 L/MIN.)	ASME A 112.18.1/CSA B125.1
PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM FLOW RATE – 0.25 (1.0 L) PER METERING CYCLE	ASME A 112.18.1/CSA B125.1
RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE – 1.5 GPM (5.7L/MIN)	ASME A 112.18.1/CSA B125.1

PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN TABLE 5.303.6.

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	DESCRIPTION	STORAGE CAPACITY (GALLONS)	ELECTRICAL KW	V	PH	RECOVERY @ 100°ΔT (GPH)	INLET TEMP °F	OUTLET TEMP °F	OPER. WEIGHT (LBS.)	REMARKS
WH 1	A.O. SMITH DRE-52-12	50	12	208	3	49	40°	130°	685	(1)(2)(3)

(1) PROVIDE EXPANSION TANK PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL 9/P-501.

(2) PROVIDE ASME RATED PTR VALVE.

(3) UL LISTED.

PLUMBING PIPE MATERIAL SCHEDULE

SERVICE	LOCATION	PIPE MATERIAL	SLOPE
WATER	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'
	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER, FACTORY INSULATED, WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'
SEWER AND VENT	ABOVE GRADE	ASTM A888 SERVICE WEIGHT CAST IRON PIPE AND DWV FITTINGS SHALL CONFORM TO CPC AND BEAR THE COLLECTIVE TRADEMARK OF CISPI AND NSF.	1/4" PER 1'
	BELOW GRADE	ABS SCHEDULE 40 PIPE AND DWV FITTINGS SHALL CONFORM TO ASTM D2321-2000 AND CPC.	1/4" PER 1'
ROOF DRAIN	ABOVE GRADE	ASTM A888 SERVICE WEIGHT CAST IRON PIPE AND DWV FITTINGS SHALL CONFORM TO CPC AND BEAR THE COLLECTIVE TRADEMARK OF CISPI AND NSF.	1/4" PER 1'
	BELOW GRADE	ABS SCHEDULE 40 PIPE AND DWV FITTINGS SHALL CONFORM TO ASTM D2321-2000 AND CPC.	1/4" PER 1'
NATURAL GAS	ABOVE GRADE	ASTM A53 SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE AND FITTINGS SHALL CONFORM TO CPC. EXPOSED PIPING SHALL BE PAINTED.	1/4" PER 15'
	BELOW FLOOR (INTERIOR)	ASTM A53 SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE AND FITTINGS SHALL CONFORM TO CPC. PIPING INSTALLED UNDERGROUND BENEATH BUILDING SHALL CONFORM TO CPC 1210.1.6.	1/4" PER 15'
	BELOW GRADE (EXTERIOR)	ASTM D2513-16a POLYETHYLENE "PE" PIPE. ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 15'
CONDENSATE	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/4" PER 1'

PIPE INSULATION THICKNESS

PER 2019 CALIFORNIA ENERGY CODE TABLE 120.3-A

FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY: CONDUCTIVITY (IN BTU-IN/H PER SQ. FT² °F)	MEAN RATING TEMPERATURE (°F)		NOMINAL PIPE DIAMETER (INCHES) <1	1 – < 1.5	1.5 – < 4	4 – < 8	8 AND LARGER
				INSULATION THICKNESS REQUIRED (IN INCHES)				
SPACE HEATING, SERVICE WATER HEATING SYSTEMS (STEAM, STEAM CONDENSATE, REFRIGERANT, SPACE HEATING, SERVICE HOT WATER)				MINIMUM PIPE INSULATION REQUIRED (THICKNESS IN INCHES OR R-VALUE)				
ABOVE 350	0.32 – 0.34	250	INCHES	4.5	5.0	5.0	5.0	5.0
			R-VALUE	R37	R41	R37	R27	R23
251-350	0.29 – 0.31	200	INCHES	3.0	4.0	4.5	4.5	4.5
			R-VALUE	R24	R34	R35	R26	R22
201-250	0.27 – 0.30	150	INCHES	2.5	2.5	2.5	3.0	3.0
			R-VALUE	R21	R20	R17.5	R17	R14.5
141-200	0.25 – 0.29	125	INCHES	1.5	1.5	2.0	2.0	2.0
			R-VALUE	R11.5	R11	R14	R11	R10
105-140	0.22 – 0.28	100	INCHES	1.0	1.5	1.5	1.5	1.5
			R-VALUE	R7.7	R12.5	R11	R9	R8
				NOMINAL PIPE DIAMETER (INCHES) <=1	1 – < 1.5	1.5 – < 4	4 – < 8	8 <
SPACE COOLING SYSTEMS (CHILLED WATER, REFRIGERANT AND BRINE)				MINIMUM PIPE INSULATION REQUIRED (THICKNESS IN INCHES OR R-VALUE)				
40-60	0.21 – 0.27	75	INCHES	NONRES 0.5 / RES 0.5	NONRES 0.5 / RES 0.5	1.0 1.0	1.0 1.0	1.0 1.0
			R-VALUE	R3 / R6	R3 / R5			
BELOW 40	0.20 – 0.26	50	INCHES	1.0	1.5	1.5	1.5	1.5
			R-VALUE	R8.5	R14	R12	R10	R9

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MIN. PIPE SIZE CW	HW	V	S	REMARKS
WC 1	WATER CLOSET (FLUSH VALVE) WALL MT'D	1-1/2"	--	2"	4"	BOWL: AMERICAN STANDARD 'AFWALL'. #3351.101, 1.1-1.6GPF, VITREOUS CHINA, ELONGATED BOWL. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. FLUSH VALVE: SLOAN ROYAL 111 EXPOSED, MANUAL, DIAPHRAGM, 1.28 GPF. SEAT: AMERICAN STANDARD OPEN FRONT, LESS COVER. CHECK HINGE. PROVIDE ABS CLOSET RING.
WC 2	WATER CLOSET (FLUSH VALVE) WALL MT'D [ADA]	1-1/2"	--	2"	4"	BOWL, FLUSH VALVE, AND SEAT, SAME AS WC-1 MOUNTED AT ADA HEIGHT, WITH ACTUATOR LOCATED IN ACCORDANCE WITH ADA GUIDELINES. SEE ARCHITECTURAL PLANS FOR MOUNTAIN HEIGHT.
WC 3	WATER CLOSET (FLUSH VALVE) FLOOR MT'D [ADA]	1-1/2"	--	2"	4"	BOWL: AMERICAN STANDARD 'MADERA'. #3249.001, 1.1-1.6GPF, VITREOUS CHINA, ELONGATED BOWL. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. FLUSH VALVE: SLOAN 'ROYAL' EXPOSED, MANUAL, DIAPHRAGM, 1.28 GPF. SEAT: AMERICAN STANDARD OPEN FRONT, LESS COVER. CHECK HINGE. PROVIDE ABS CLOSET RING. MOUNT AT ADA HEIGHT PER ARCHITECTURAL PLANS.
UR 1	URINAL (FLUSH VALVE)	3/4"	--	2"	2"	AMERICAN STANDARD MAYBROOK WALL MOUNTED URINAL MOUNTED AT ADA HEIGHT PER ARCHITECTURAL PLANS. TOP SPUD WITH EVERCLEAN FINISH. PROVIDE SLOAN 'ROYAL' 186 MANUAL FLUSH VALVE WITH PUSH BUTTON ACTIVATION FOR 0.125 GPF. SEE ARCHITECTURAL PLANS FOR STANDARD MOUNTAIN HEIGHT.
UR 2	URINAL (FLUSH VALVE) (ADA)	3/4"	--	2"	2"	AMERICAN STANDARD MAYBROOK WALL MOUNTED URINAL MOUNTED AT ADA HEIGHT PER ARCHITECTURAL PLANS. TOP SPUD WITH EVERCLEAN FINISH. PROVIDE SLOAN 'ROYAL' 186 MANUAL FLUSH VALVE WITH PUSH BUTTON ACTIVATION FOR 0.125 GPF. MOUNT AT ADA HEIGHT PER ARCHITECTURAL PLANS.
L 1	LAVATORY (WALL HUNG,ADA)	3/4"	3/4"	1-1/2"	2"	FIXTURE: KOHLER "GREENWICH" #K-2031. VITREOUS CHINA, OVERFLOW. FAUCET: FAUCET: ZURN #Z86100-XL. 0.35 GPM VANDAL RESISTANT SPRAY, 10 SECOND CYCLE. ZURN #Z1231 CONCEALED ARM CARRIER AND PLUMBEREX "HANDY-SHIELD MAXX" P-TRAP COVER. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. INSTALL ASSE 1017 MIXING VALVE SET AT 105' MAX. MOUNT AT ADA HEIGHT.
S 1	SINK	3/4"	3/4"	1-1/2"	2"	FIXTURE: ELKAY DAYTON STAINLESS STEEL 25"X22"X5-3/8" MODEL GE12522. SINGLE BOWL 18 GAUGE TYPE 304 STAINLESS STEEL. 4 HOLES WITH CHICAGO FAUCET:.CHICAGO FAUCETS MODEL: 2304-E35ABCP, SWING GOOSENECK SPOUT, 1.5 GPM, CERAMIC OPERATING CARTRIDGE, DECK MOUNT. SUPPLIES WITH LOOSE KEY STOPS. PROVIDE FOOD DISPOSER: THE BADGER 1/3 HP GARBAGE DISPOSAL.
CS 1	CLASSROOM SINK	3/4"	3/4"	1-1/2"	2"	DATON MODEL D12521 SINGLE BOWL DROP-IN SINK, TYPE 304 STAINLESS STEEL COUNTER MOUNT 25" X 21-1/4" X 6-9/16" DEEP. ADA COMPLIANT. FAUCET: JUST MODEL: JSFVR-5 EAD-FREE POLISHED CHROME-PLATED DOUBLE LABORATORY FAUCET WITH INTEGRAL SHANK. QUARTER TURN CERAMIC DISK CARTRIDGES AND 5-3/8" CENTERLINE RIGID OR SWING GOOSENECK SPOUT. MOUNTING HARDWARE AND STAINLESS STEEL FLEX CONNECTION HOSES. NO MIXING COLD WATER ONLY. ADA ACCESSIBLE.
FD 1	FLOOR DRAIN	1/2"TP	--	1-1/2"	2"	ZURN #Z415-B CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND COLLAR WITH NICKEL BRONZE STRAINER, OPENING AT DRAIN GRATE WITHIN RESTROOMS SHALL BE 1/4" MAX. OPENINGS IN ALL DIRECTIONS.TRAP PRIMER CONNECTION.
FS 1	FLOOR SINK	1/2"TP	--	2"	3"	ZURN #Z1900-K. COATED SAT IRON BODY AND SQUARE SLOTTED LIGHT DUTY GRATE WITH 1/2" MAX GRATE OPENINGS, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH BOTTOM DOME STRAINER, TRAP PRIMER CONNECTION.
MS 1	MOP SINK	3/4"	3/4"	2"	3"	FIXTURE: MUSTEE #63M WHTITE W/BUMPER GUARDS #63.401 & WALL GUARDS #67.2424. FAUCET: MUSTEE #63.600A CHROME WALL MOUNT, VACUUM BREAKER, TOP BRACE, PAIL HOOK. INSTALL ASSE-1017 MIXING VALVE SET AT 120' MAX.
DF 1	ELECTRIC WATER COOLER BOTTLE FILLER	3/4"	--	1-1/2"	2"	ELKAY LZSTLBWSLK WATER COOLER WITH EZH20 BOTTLE FILLING STATION & COOLER CHILLING CAPACITY 8 GPH. ELECTRONIC SENSOR BOTTLE FILLER, FRONT AND SIDE PUSHBAR, ADA COMPLIANT. NEW VERSATILE BI-LEVEL. REFER TO ARCHITECTURAL PLANS FOR ADA MOUNTING HEIGHTS.
HB 1	WALL HYDRANT HOSE BIBB	3/4"	--	--	--	WOODFORD MODEL 79 WALL HYDRANT 360 DEGREES SWIVEL INLET, EXTERIOR FINISH: STANDARD CHROME (CH), LOOSE KEY OPERATES HYDRANT. HARDENED STAINLESS STEEL STEM RESIST DAMAGE.
HB 2	ROOF HYDRANT	3/4"	--	--	--	WOODFORD MODEL RHMC-MS. BACKFLOW PROTECTED WITH A FIELD TESTABLE ASSE 1052 DUAL CHECK BACKFLOW PREVENTER, BRASS HEAD CASTING, EPDM PACKING PREVENTS LEAKING, POWDER COATED METAL WHEEL HANDLE, MODEL 50HF WITH 3/4" HOSE CONNECTION. SEE DETAIL 10/P-501.

FIXTURE DATA

SYMBOL	DESCRIPTION	DOMESTIC WATER: NO. OF UNITS	F.U. PER UNIT (1)	TOTAL FIXTURE UNITS CW	TOTAL FIXTURE UNITS HW	SEWER: NO. OF UNITS	F.U. PER UNIT (2)	TOTAL FIXTURE UNITS
CS 1	CLASSROOM SINK	4	1.5	6.0	4.5	4	2.0	8.0
DF 1	DRINKING FOUNTAIN	4	0.5	2.0	--	4	0.5	2.0
HB 1	HOSE BIBB	1	2.5	2.5	--	1	--	--
HB 2	ADDITIONAL HOSE BIBB	2	1.0	2.0	--	2	--	--
L 1	LAVATORY	12	1.0	12.0	9.0	12	1.0	12.0
BS 1	BAR SINK	0	2.0	0.0	0.0	0	2.0	0.0
S 1	SINK	1	1.5	1.5	1.1	1	2.0	2.0
MS 1	SERVICE/MOP BASIN SINK	2	3.0	6.0	4.5	2	3.0	6.0
SH 1	SHOWER	0	2.0	0.0	0.0	0	2.0	0.0
UR –	URINAL	4	4.0	16.0	--	4	2.0	8.0
WC –	WATER CLOSET (VALVE)	13	5.0	65.0	--	13	4.0	52.0
FD 1	FLOOR DRAIN	4	--	--	--	4	0.0	0.0
FS 1	FLOOR SINK	1	--	--	--	1	2.0	2.0
	TOTAL			113.0	19.1			92.0

(1) WATER FIXTURE UNITS PER CPC TABLE A 103.1 (2) SEWER FIXTURE UNITS PER CPC TABLE 702.1

WATER CALCULATIONS

DOMESTIC COLD WATER PRESSURE CALCULATION (AVG PSI / 100 FT)

RESIDUAL PRESSURE
AVAILABLE WATER PRESSURE IS 70HI – 65LO PSI. CONTRACTOR TO FIELD VERIFY STREET WATER PRESSURE PRIOR TO START OF WORK. IN CASE OF ANY DISCREPANCIES NOTIFY ARCHITECT/ENGINEER PRIOR TO START OF WORK.

MAX. SYSTEM INLET PRESSURE [AT WATER METER INLET]	=	70	PSI
MIN. SYSTEM INLET PRESSURE [AT PRESSURE REDUCING VALVE INLET]	=	60	PSI
SYSTEM PRESSURE LOSSES			
2" WATER METER @ 72 GPM (EXISTING)	=	2	PSI
2" BACKFLOW PREVENTER @ 72 GPM (EXISTING)	=	13	PSI
2" PRESSURE REDUCING VALVE @ 72 GPM	=	5	PSI
TOTAL OF SYSTEM PRESSURE LOSSES		20.0	PSI
RESIDUAL PRESSURE AT PRV		40	
PRESSURE REDUCING VALVE SETPOINT	=	40	PSI
STATIC HEIGHT PRESSURE LOSS (15' x .433)	=	6.5	PSI
RESIDUAL PRESSURE REQUIRED AT GOVERNING FIXTURE [WATER CLOSET 25 PSI]	=	25	PSI
TOTAL SYSTEM PRESSURE LOSSES (DOWNSTREAM OF PRV)	=	31.5	PSI
PRESSURE AVAILABLE FOR PIPE SIZING			
(PRV SETPOINT – TOTAL SYSTEM PRESSURE LOSSES DOWNSTREAM OF PRV)	=	8.5	PSI
ACTUAL LENGTH OF SYSTEM	=	165	FT
DEVELOPED LENGTH OF SYSTEM (165' X 1.5)	=	248	FT
AVERAGE PRESSURE DROP			
(PRESSURE AVAILABLE FOR PIPE SIZING) X 100 FT / (DEVELOPED LENGTH OF SYSTEM)	(8.5PSI	x100	/ 248)
	=	3.4	PSI/100 FT AVG
SUMMARY			

PIPE SIZING BASED UPON 3.4 PSI LOSS PER 100' AVG

DOMESTIC COLD WATER SIZING

FRICTION LOSS 3.4 PSI PER 100 FT AVG, AT 8 FPS MAX. VELOCITY

PIPE SIZE	WSFU FLUSH TANK	WSFU FLUSH VALVE	GPM	FPS
1/2"	1	–	2	2.6
3/4"	6	–	5	3.4
1"	15	–	11	4.1
1-1/4"	28	–	19	4.8
1-1/2"	54	13	30	5.4
2"	195	88	64	6.6
2-1/2"	455	329	115	7.7
3"	748	700	170	8.0

DOMESTIC HOT WATER SIZING

FRICTION LOSS 3.4 PSI PER 100 FT AVG, AT 5 FPS MAX. VELOCITY

PIPE SIZE	WSFU FLUSH TANK	WSFU FLUSH VALVE	GPM	FPS
1/2"	1	–	2	2.6
3/4"	6	–	5	3.4
1"	15	–	11	4.1
1-1/4"	28	–	19	4.8
1-1/2"	49	–	28	5.0
2"	119	–	48	5.0

PLUMBING EQUIPMENT SCHEDULE

TAG	EQUIPMENT	LOCATION	MANUFACTURER	MODEL	REMARKS
TP 1	TRAP PRIMER	VARIES	PPP	P-2-500	PRESSURE DROP ACTIVATED, BRASS CONSTRUCTION. PROVIDE WITH APPROVED ACCESS PANEL. SEE DETAIL 1/P-501.
WHA 1	WATER HAMMER ARRESTOR	VARIES	PPP	SC SERIES	PISTON OPERATED WITH HARD DRAWN, SEAMLESS TYPE "K" COPPER BODY. PROVIDE WITH APPROVED ACCESS PANEL. INSTALL PER MANUFACTURES RECOMMENDATIONS. SEE DETAIL 2/P-501.
TMV 1	MIXING VALVE	BELOW LAVATORIES	WATTS	LFMMV	WATTS MODEL LFMMV, 1/2", 4.0 PSI PRESSURE DROP AT 2.0 GPM WITH RANGE TEMPERATURE OF 80°F TO 120°F, SET VALVE AT A MAXIMUM 105°F. VALVE TO BE INSTALLED AT EACH LAVATORY AND HAND SINK AND SHALL MEET ASSE STANDARD 1070. VALVE TO BE ALSO LABELED IPC CERTIFIED. VALVE SHALL BE BRONZE BODY WITH INTEGRAL CHECKSTOPS, STRAINERS AND AN ADJUSTMENT CAP WITH LOCKING FEATURE. THE VALVE SHALL BE APPROVED FOR 0.35 GPM WATERFLOW IN ACCORDANCE WITH ASSE 1016-2003.
ET 1	EXPANSION TANK	WATER HEATER ROOM #1014	AMTROL	THERM-X-TROL ST-12	SIZE PER MANUFACTURER'S RECOMMENDATIONS. MAX. OPERATIONAL WEIGHT 46 LBS.
CP 1	CONDENSATE PUMP	BOOK ROOM Z1	LITTLE GIANT	554542 VCMX-20ULS-C	84 GPH, 1/30 HP, 115V, 1.5A, 93 WATTS, 60 Hz, AUTOMATIC CONDENSATE PUMP WITH SAFETY SWITCH, AND CHECK VALVE.

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DATE: 10/25/2022

DAVY ARCHITECTURE
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#21089
09-23-22

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: SOBE
CHECKED BY: SOBE

PLUMBING SCHEDULES

P-002

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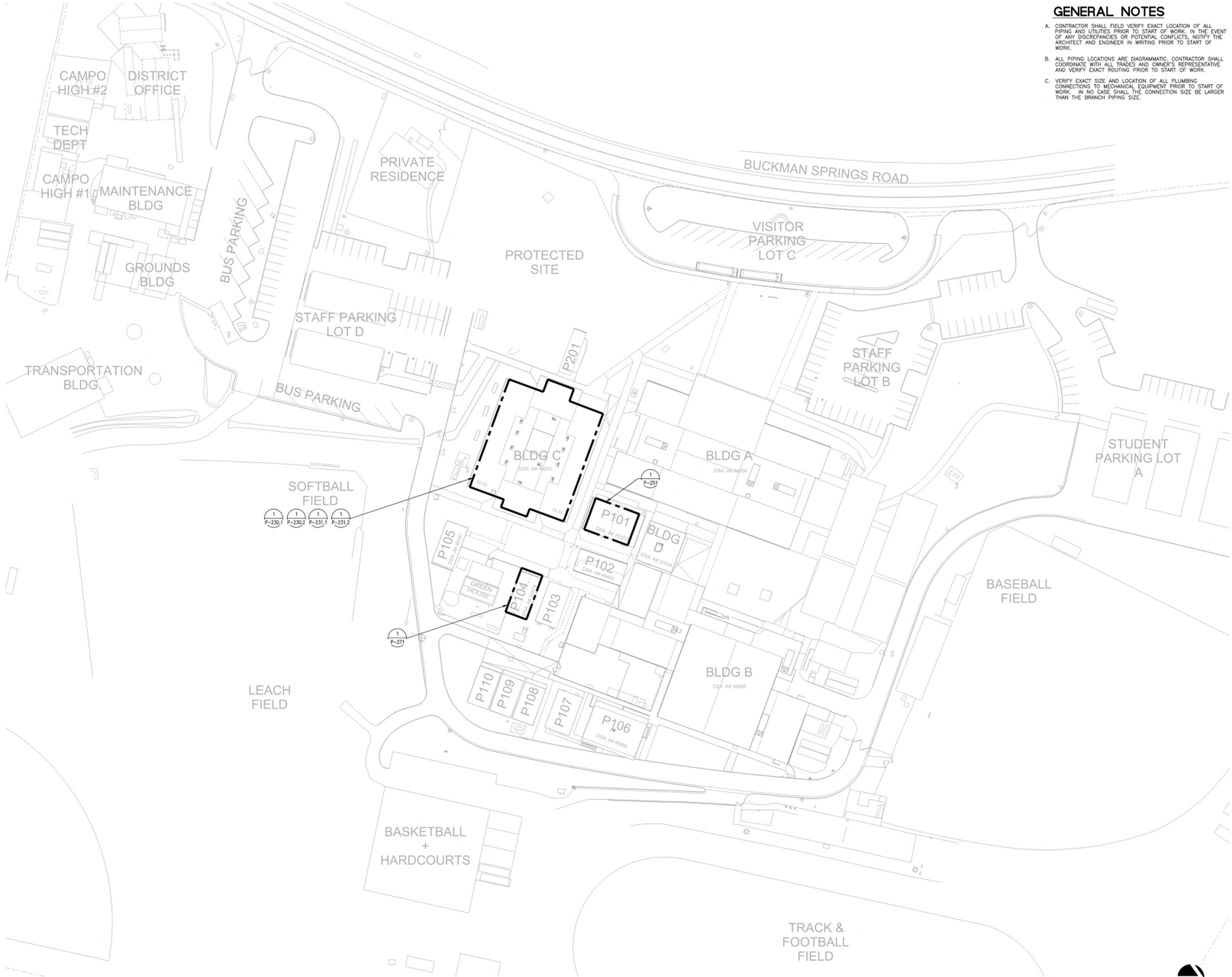
GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.

C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL THE CONNECTION SIZE BE LARGER THAN THE BRANCH PIPING SIZE.



1 PLUMBING SITE PLAN

1"=40'-0"

0' 10' 20' 40' 80'

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Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
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CHECKED BY:	SOBE

PLUMBING SITE PLAN

P-100

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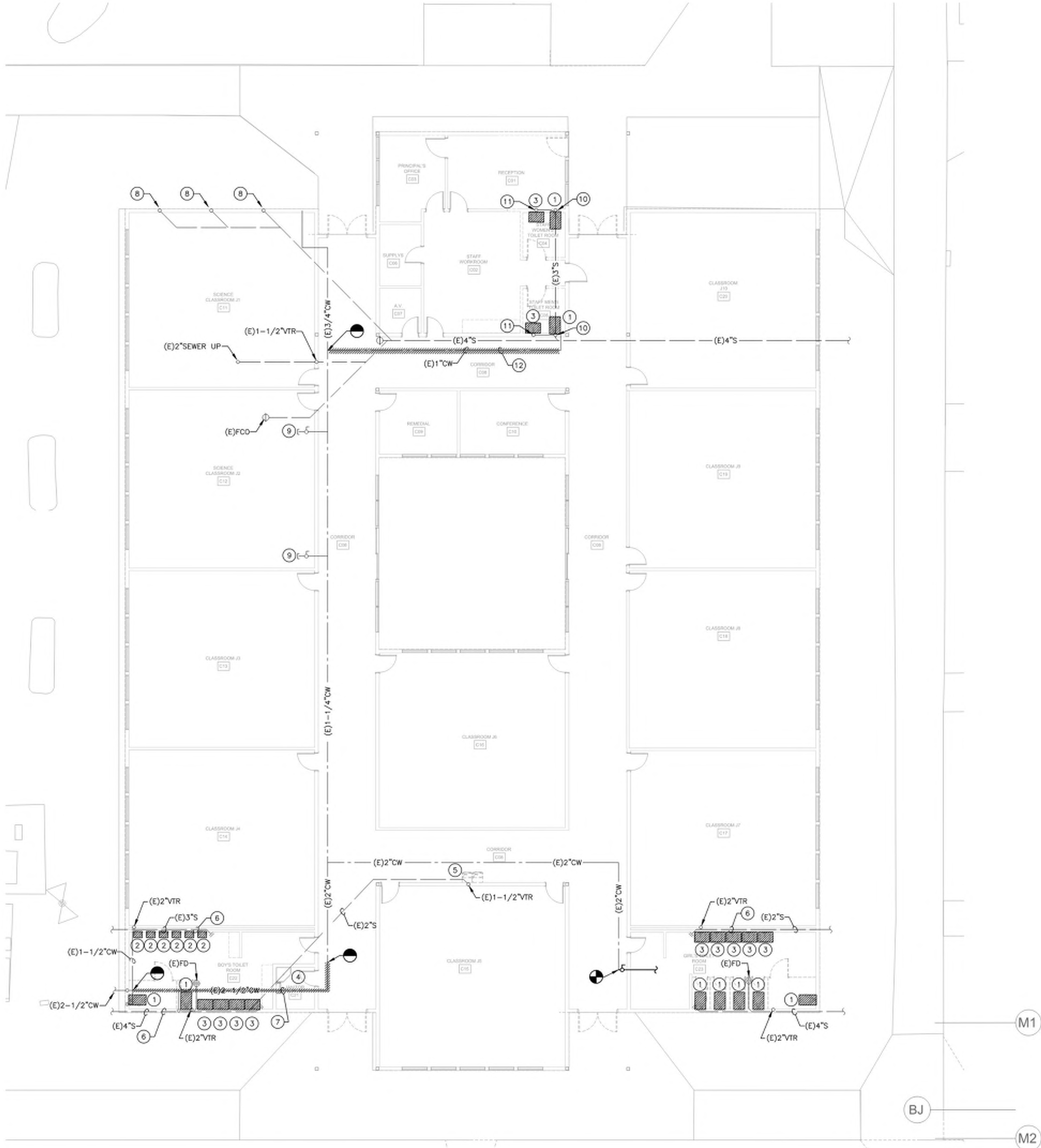

1 PLUMBING DEMOLITION FLOOR PLAN - BUILDING C

1/8"=1'-0"

0 2 4 8 16

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND DISPOSAL WITH ARCHITECT AND OWNERS REPRESENTATIVE PRIOR TO START OF WORK.

B. ALL FIXTURES, EQUIPMENT, AND PIPING TO REMAIN OR TO BE RELOCATED AND REUSED SHALL BE CLEANED AND REPAIRED TO ORIGINAL WORKING CONDITION.

C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL BRANCH SIZE BE SMALLER THAN CONNECTION SIZE.

KEY NOTES

1. REMOVE EXISTING WATER CLOSET AND ALL ACCESSORIES. CAP OR PLUG EXISTING PIPING AT ACTIVE MAIN OR BRANCH LINE.
2. REMOVE EXISTING URINAL AND ALL ACCESSORIES. CAP OR PLUG EXISTING PIPING AT ACTIVE MAIN OR BRANCH LINE.
3. REMOVE EXISTING LAVATORY AND ALL ACCESSORIES. CAP OR PLUG EXISTING PIPING AT ACTIVE MAIN OR BRANCH LINE.
4. EXISTING PLUMBING FIXTURE TO REMAIN AS-IS.
5. REMOVE EXISTING DRINKING FOUNTAIN AND ALL ACCESSORIES. TEMPORARILY CAP OR PLUG EXISTING PIPING WALL FOR REUSE.
6. REMOVE EXISTING SANITARY PIPING BELOW FLOOR CAP OR PLUG AT LOCATION INDICATED ON DRAWING FOR REUSE.
7. REMOVE EXISTING DOMESTIC COLD WATER PIPING ABOVE CEILING, CAP OR PLUG AT LOCATION INDICATED ON DRAWING FOR REUSE.
8. 2" SEWER UP TO SINK TO BE REMOVED CAP BELOW FLOOR FOR FUTURE USE.
9. EXISTING COLD WATER CAPPED OUTLET FOR FUTURE.
10. EXISTING 2" VENT UP THRU ROOF.
11. EXISTING 2" SEWER DOWN TO BELOW FLOOR AND 1-1/2" VENT UP.
12. REPLACE EXISTING 1" COLD WATER WITH 1-1/4" COLD WATER. RE-CONNECT ALL EXISTING PLUMBING FIXTURES TO NEW 1-1/4" LINE..

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Mountain Empire Unified School Disctrict

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3305 Buckman Springs Rd, Pine Valley, CA 91962

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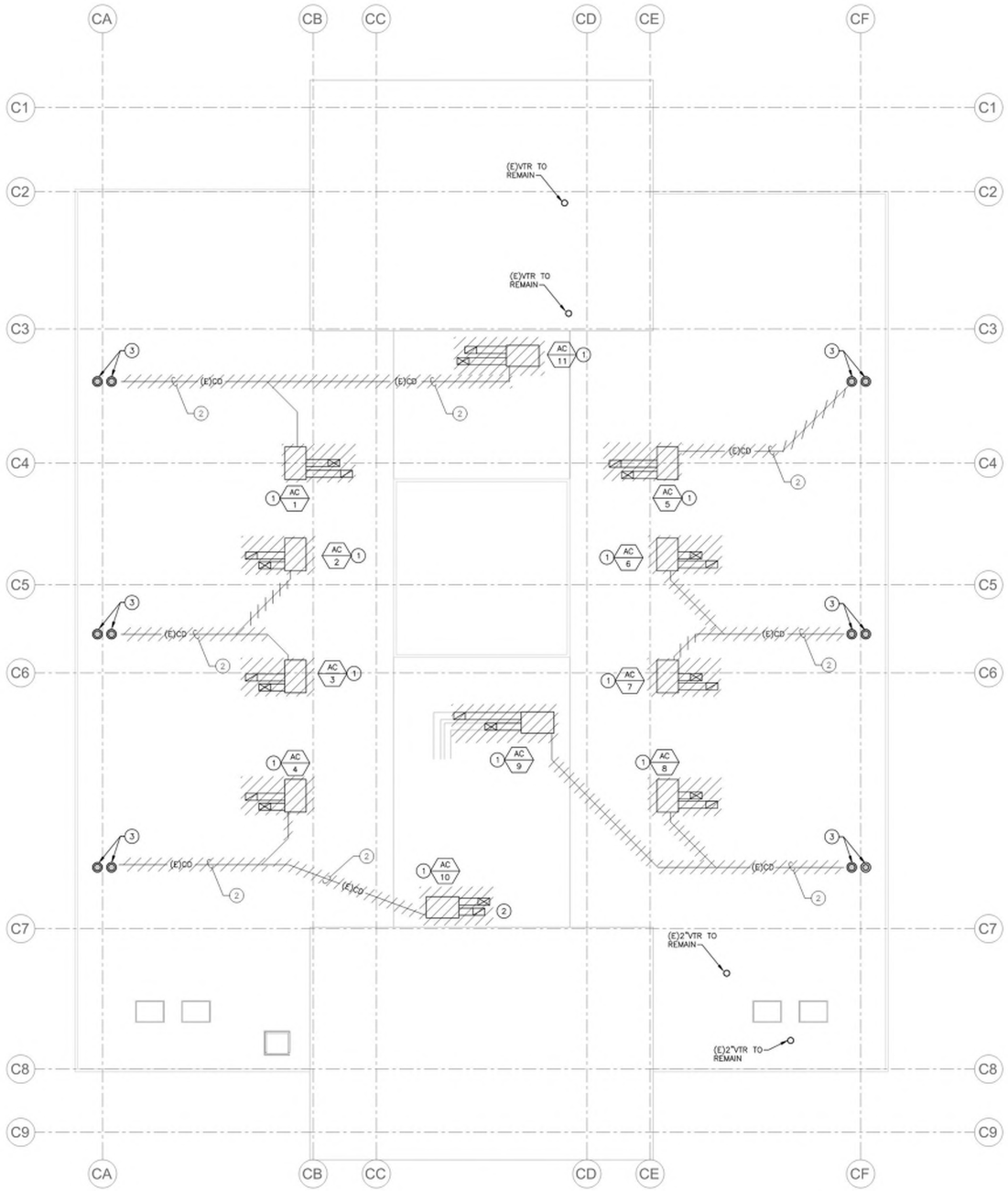
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

PLUMBING DEMOLITION FLOOR PLAN BUILDING C

P-230.1

7/27/2021 9:46:11 AM



1 PLUMBING DEMOLITION ROOF PLAN - BUILDING C

1/8"=1'-0"

0' 2' 4' 8' 16'

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND DISPOSAL WITH ARCHITECT AND OWNERS REPRESENTATIVE PRIOR TO START OF WORK.

B. ALL FIXTURES, EQUIPMENT, AND PIPING TO REMAIN OR TO BE RELOCATED AND REUSED SHALL BE CLEANED AND REPAIRED TO ORIGINAL WORKING CONDITION.

C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL BRANCH SIZE BE SMALLER THAN CONNECTION SIZE.

KEY NOTES

1. REMOVE EXISTING GAS PIPING AND ALL ASSOCIATED EQUIPMENT FROM EXISTING ROOF TOP UNITS (RTU) DURING CONSTRUCTION OF NEW ROOF TEMPORARILY CAP OR PLUG EXISTING GAS PIPING BELOW ROOF AT MAIN OR ACTIVE BRANCH PIPING FOR RE-USE AS PART OF THIS SCOPE. RE-CONNECT GAS PIPING TO NEW RTU'S UPON COMPLETION OF NEW ROOF CONSTRUCTION.
2. REMOVE EXISTING CONDENSATE PIPING AND ALL ASSOCIATED EQUIPMENT FROM EXISTING ROOF TOP UNITS (RTU) DURING CONSTRUCTION OF NEW ROOF. CONTRACTOR TO FIELD VERIFY EXACT ROUTING OF EXISTING CONDENSATE DRAIN PIPING.
3. REMOVE EXISTING ROOF DRAIN DOME, CLAMP COLLAR, DECK PLATE. PROTECT OPEN PIPING FROM ANY DEBRIS ENTERING OPEN PIPE DURING CONSTRUCTION OF NEW ROOF.

IDENTIFICATION STAMP
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APP: 04-121018 INC:
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DATE: 10/25/2022

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

PLUMBING DEMOLITION ROOF PLAN BUILDING C

P-230.2

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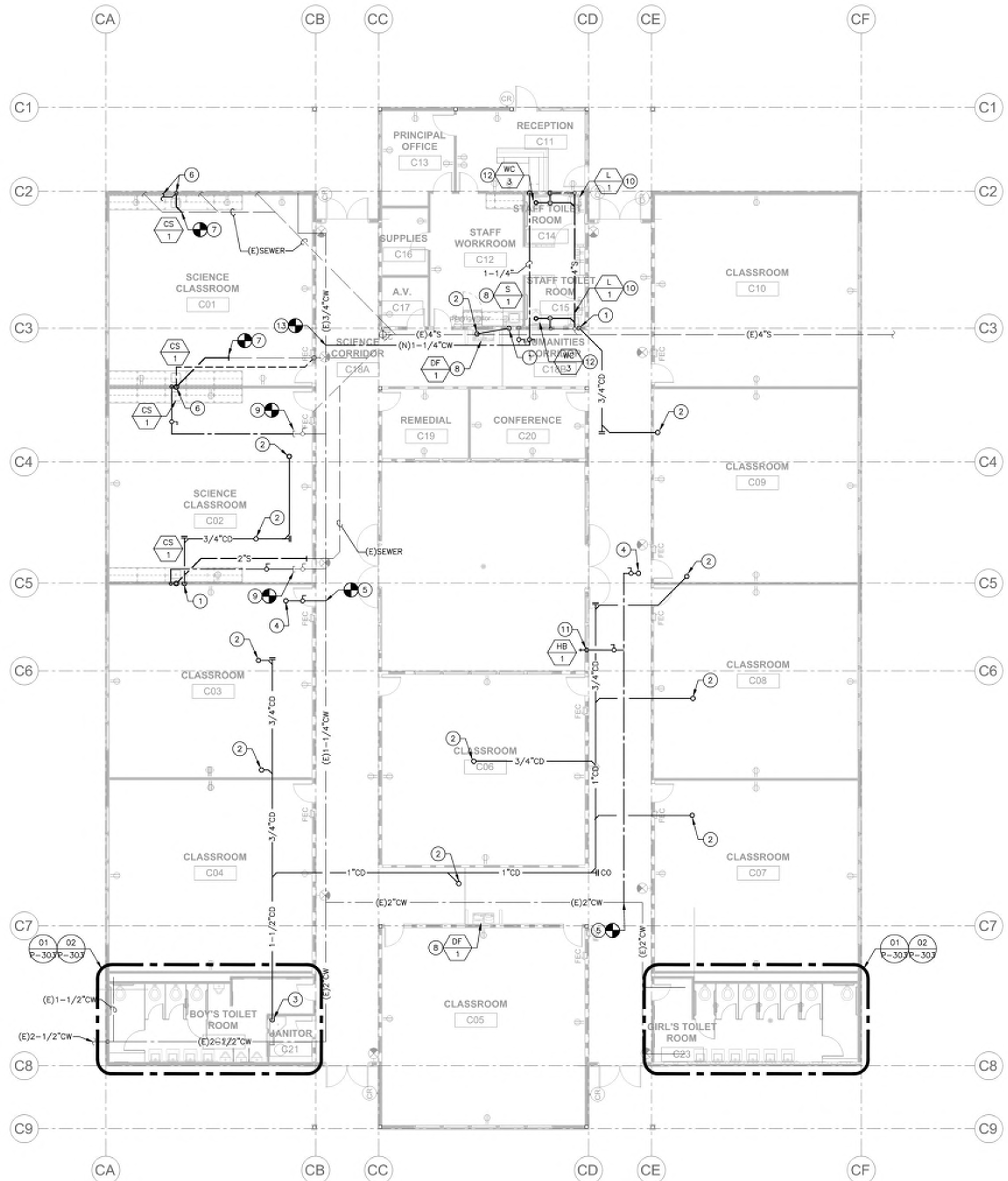

1 PLUMBING FLOOR PLAN - BUILDING C

1/8"=1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.

C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL THE CONNECTION SIZE BE LARGER THAN THE BRANCH PIPING SIZE.

KEY NOTES

(1) ROUTE CONDENSATE DRAIN DOWN IN WALL. ROUTE TO FIXTURE TAILPIECE. SEE DETAIL 5/P-501.

(2) 3/4" CONDENSATE DRAIN UP TO ROOF TOP UNIT.

(3) ROUTE CONDENSATE DOWN TO MOP SINK. PROVIDE MINIMUM 1" AIRGAP.

(4) 3/4" CW UP TO HOSE BIBB ON ROOF. SEE DETAIL 10/P-501.

(5) 3/4" CW CONNECT TO EXISTING CW MAIN ABOVE CEILING. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND PIPE SIZE.

(6) 2" SEWER DOWN TO BELOW FLOOR AND 1-1/2" VENT UP AND CONNECT TO EXISTING VENT ABOVE CEILING. 3/4" COLD WATER CONNECT TO NEAREST EXISTING WATER PIPING ABOVE CEILING. . CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND PIPE SIZE.

(7) CONNECT TO EXISTING SEWER BELOW FLOOR. CONTRACTOR TO FIELD VERIFY EXACT LOCATION.

(8) CONNECT NEW PLUMBING FIXTURE TO EXISTING PLUMBING ROUGH-IN ADJUST AS REQUIRED TO ACCOMMODATE NEW FIXTURE.

(9) 3/4" CW CONNECT TO EXISTING CW CAPPED OUTLET ABOVE CEILING. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND PIPE SIZE.

(10) NEW LAVATORY CONNECT TO EXISTING PLUMBING UTILTIES: SEWER, VENT AND HOT AND COLD WATER LINES. RELOCATE EXISTING WATER HEATERS AS NEEDED.

(11) 3/4" COLD WATER DOWN TO HOSE BIBB.

(12) 4" SEWER DOWN TO BELOW FLOOR AND 2" VENT UP AND CONNECT TO 2"VTR. 1-1/4" COLD WATER CONNECT TO FIXTURE.

(13) CONNECT NEW 1-1/4" COLD WATER TO EXISTING 1-1/4" COLD WATER MAIN. CONTRACTOR TO FIELD VERIFY EXACT LOCATION.

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Mountain Empire Unified School District

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CHECKED BY: SOBE

PLUMBING FLOOR PLAN BUILDING C

P-231.1

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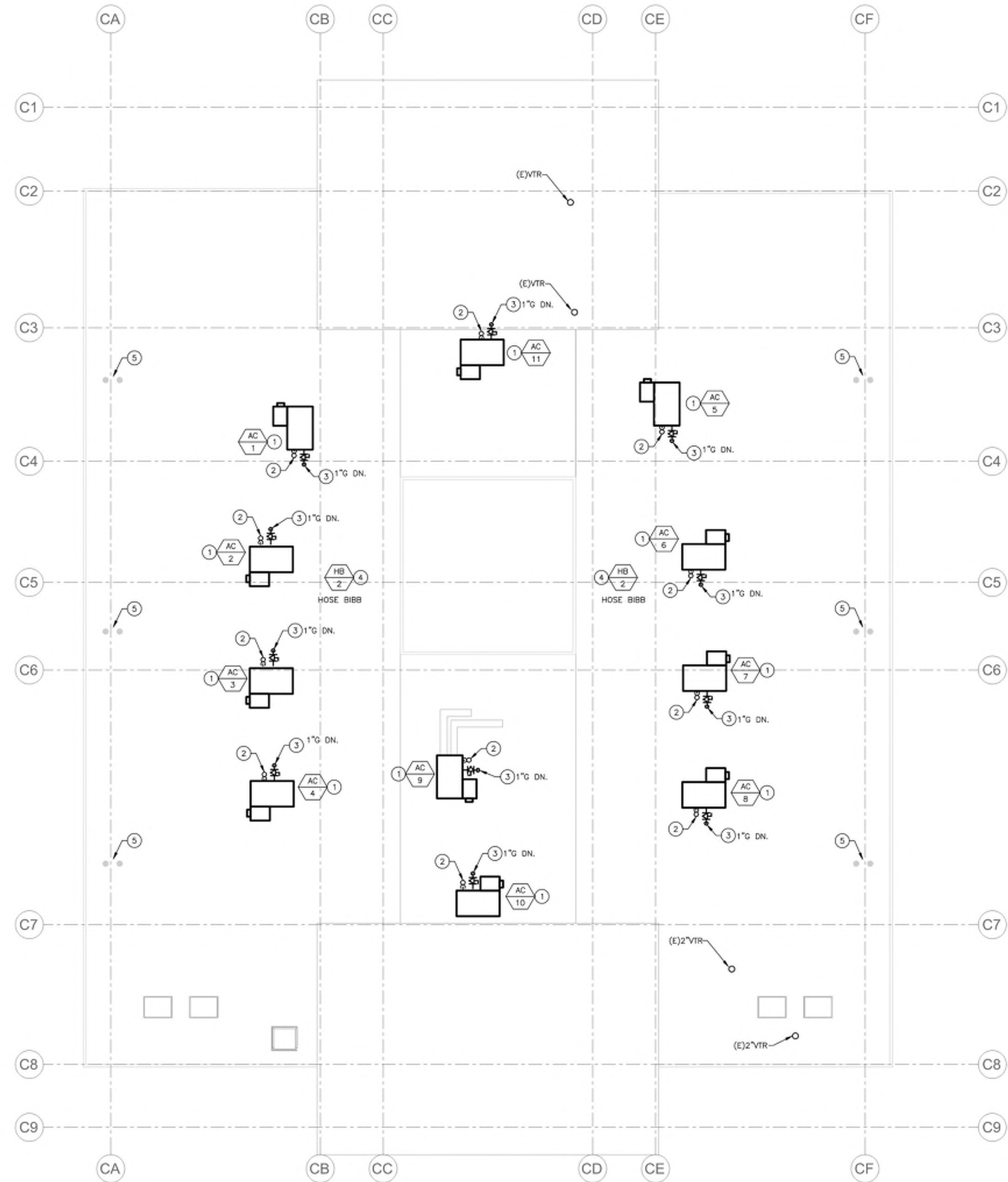

1 PLUMBING ROOF PLAN - BUILDING C

1/8"=1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.

C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL THE CONNECTION SIZE BE LARGER THAN THE BRANCH PIPING SIZE.

KEY NOTES

(1) MECHANICAL UNITS SHOWN FOR REFERENCE ONLY.

(2) 3/4" CONDENSATE DRAIN CONNECT TO ROOF TOP UNIT AND DOWN THROUGH ROOF. SEE DETAIL 7/P-501.

(3) GAS CONNECTION TO ROOF TOP UNIT AND DOWN THROUGH ROOF AND RE-CONNECT TO EXISTING GAS BRANCH PIPING. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONNECTION POINT. PROVIDE PRESSURE REGULATOR (IF APPLICABLE), GAS COCK, UNION, DIRT LEG, AND TEST TEE AT EACH RTU UNLESS OTHERWISE NOTED. SEE DETAIL 8/P-501.

(4) 3/4" CW DOWN FROM HOSE BIBB. SEE DETAIL 10/P-501.

(5) EXISTING ROOF DRAIN AND OVERFLOW ROOF DRAIN. PROVIDE NEW DRAIN DOME TO MATCH EXISTING.

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Mountain Empire Unified School District

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CHECKED BY: SOBE

PLUMBING ROOF PLAN BUILDING C

P-231.2

7/27/2021 9:46:11 AM

GENERAL NOTES

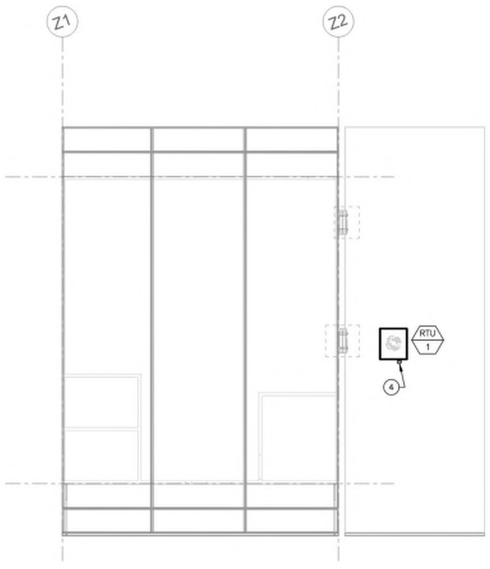
A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.

C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL THE CONNECTION SIZE BE LARGER THAN THE BRANCH PIPING SIZE.

KEY NOTES

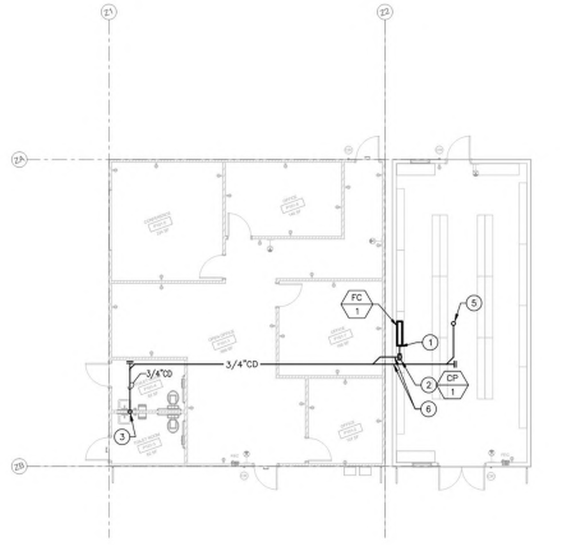
1. 3/4" CONDENSATE CONNETION TO MECHANICAL EQUIPMENT. SEE DETAIL 7/P-501.
2. CONDENSATE PUMP. SEE PLUMBING DRAWING P-002 FOR SPECIFICATION.
3. ROUTE CONDENSATE DRAIN DOWN IN WALL AND CONNECT TO FIXTURE TAILPIECE. SEE DETAIL 5/P-501.
4. 3/4" CONDENSATE DRAIN DOWN TO CEILING BELOW.
5. CONDENSATE DRAIN UP THRU ROOF AND CONNECT TO RTU-1.
6. PROVIDE SEISMIC JOINT AND HANGERS FOR PLUMBING PIPING CROSSING OVER THE SEPARATION.



2 PLUMBING ROOF PLAN

1/8"=1'-0"

0' 2' 4' 8' 16'



1 PLUMBING FLOOR PLAN - SEWER & VENT

1/8"=1'-0"

0' 2' 4' 8' 16'

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Mountain Empire Unified
School Disctrict

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Mountain Empire Junior High School Site Modernization

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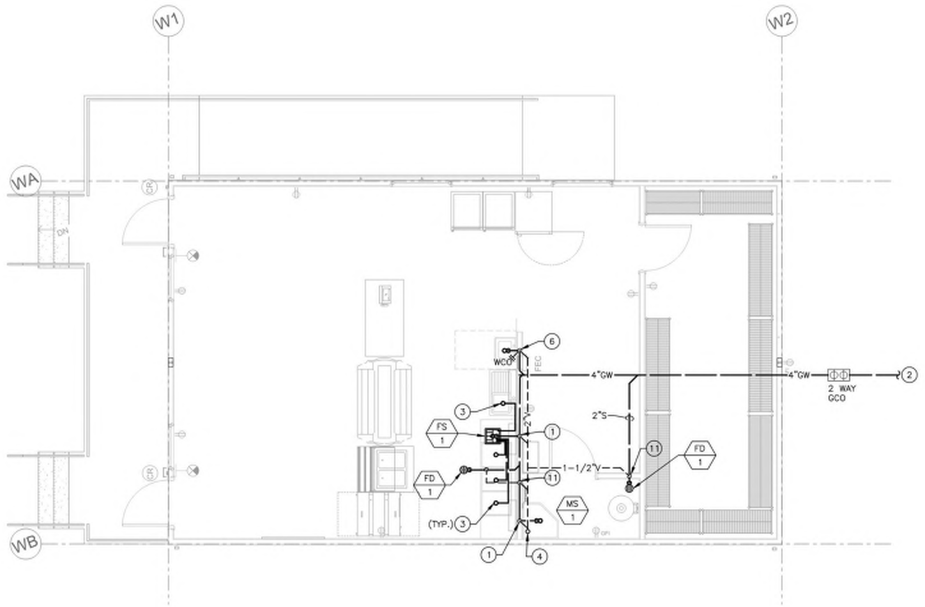
DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

PLUMBING FLOOR PLANS BUILDING P101 AND BOOKROOM

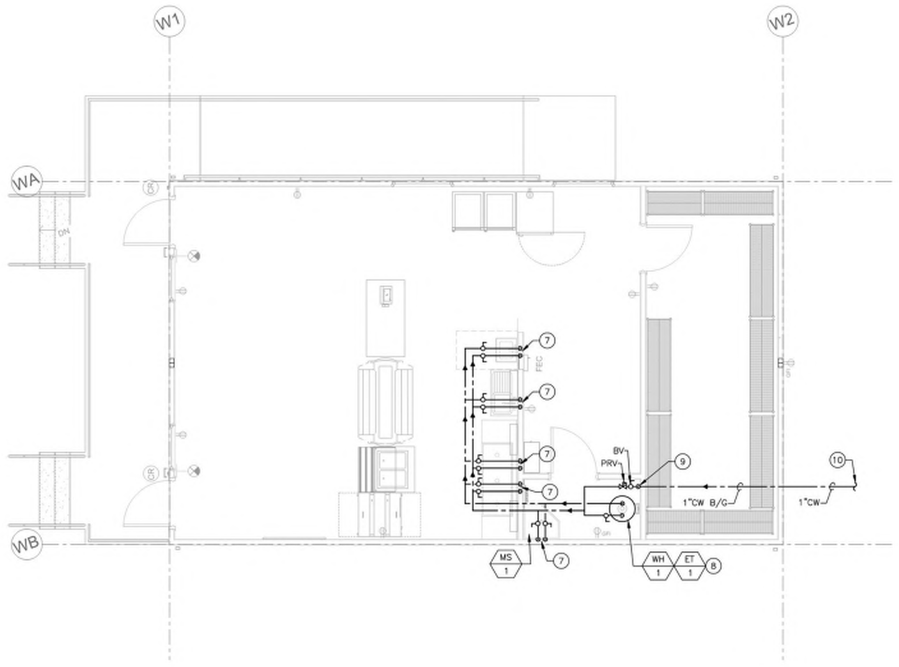
P-251

7/27/2021 9:46:11 AM



1 ENLARGED FLOOR PLAN - SEWER & VENT

1/4"=1'-0"



2 ENLARGED FLOOR PLAN - DOMESTIC WATER

1/4"=1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND DISPOSAL WITH ARCHITECT AND OWNERS REPRESENTATIVE PRIOR TO START OF WORK.

B. ALL FIXTURES, EQUIPMENT, AND PIPING TO REMAIN OR TO BE RELOCATED AND REUSED SHALL BE CLEANED AND REPAIRED TO ORIGINAL WORKING CONDITION.

C. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

D. B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.

E. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL BRANCH SIZE BE SMALLER THAN CONNECTION SIZE.

KEY NOTES

1. 2" VENT DOWN TO BELOW FLOOR AND CONNECT TO 3" SEWER PIPING. EACH HORIZONTAL VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX INCHES IN HEIGHT ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE BEFORE BEING CONNECTED TO ANY OTHER VENT (CPC 905.3)
2. 4" SEWER. FOR CONTINUATION REFER TO CIVIL DRAWINGS.
3. INDIRECT WASTE PIPE TO FLOOR SINK. PIPING FROM FOOD HANDLING FIXTURES OR EQUIPMENT SHALL BE SEPARATELY PIPED BY MEANS OF AN AIRGAP TO THE FLOOR SINK, AND SHALL NOT BE COMBINED WITH ANY OTHER INDIRECT WASTE PIPING.
4. 3" VENT THRU ROOF. CONTRACTOR TO CONFIRM FINAL LOCATIONS OF VTR WITH FUTURE TI DRAWINGS.
5. 4" SEWER DOWN TO BELOW FLOOR.
6. 2" SEWER DOWN AND 1-1/2" VENT UP. PROVIDE INSULATORS FOR WATER SUPPLY AND DRAIN PIPES UNDER SINK. INSULATORS SHALL COMPLY WITH ASME A112.18.9.
7. 3/4" HW & CW DOWN TO FIXTURE. PROVIDE INSULATION FOR WATER SUPPLY AND DRAIN PIPES UNDER LAVS. AND SINKS. INSULATORS SHALL COMPLY WITH ASME A112.18.9.
8. ELECTRIC WATER HEATER. P&T VALVE AND DRAIN PAN DISCHARGE INTO MOP SINK. SEE DETAIL 9/P-501 FOR DETAIL.
9. 1" CW DOWN TO BELOW GRADE.
10. 1" CW. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
11. 1-1/2" VENT DOWN TO BELOW FLOOR.

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Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

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DAVY PROJECT No:	2017
DRAWN BY:	SOBE
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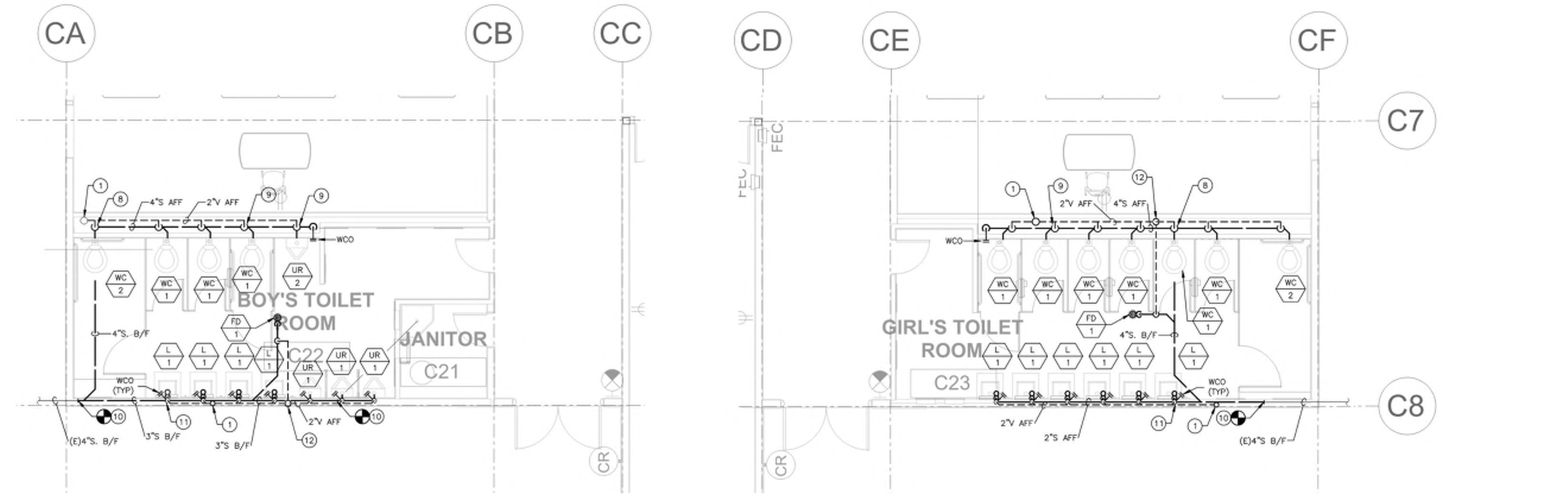
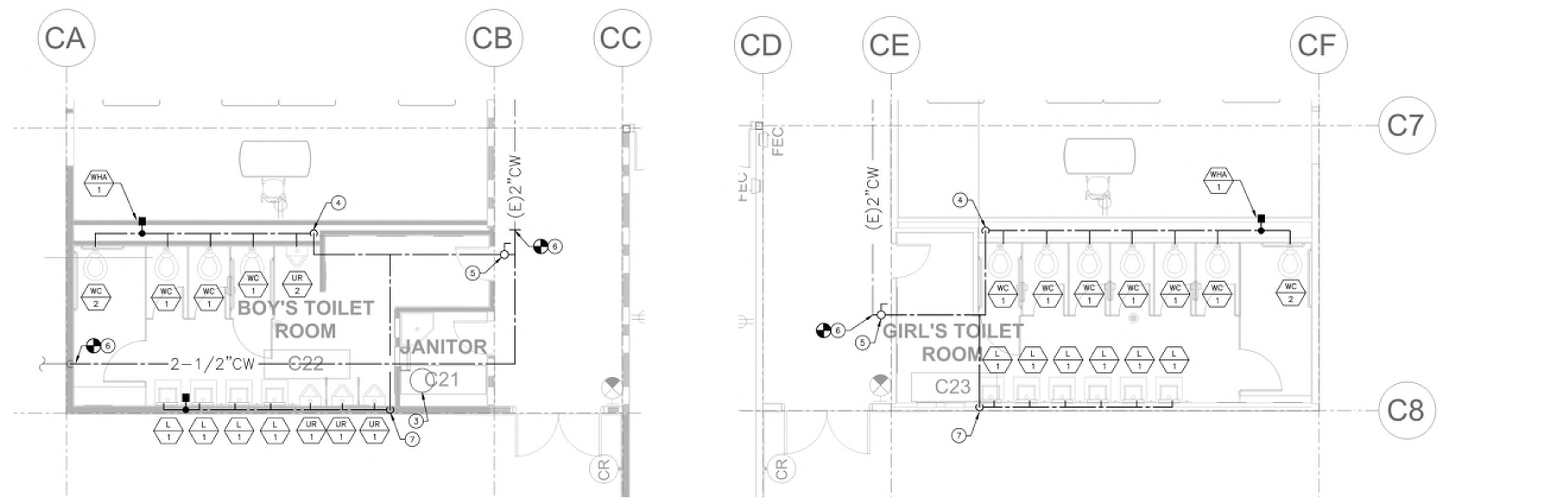
PLUMBING ENLARGED FLOOR PLANS BUILDING P104

P-271

7/27/2021 9:46:11 AM



PLUMBING BUILDING C - ENLARGED FLOOR PLAN - SEWER & VENT 1/4" = 1'-0" 01



PLUMBING BUILDING C - ENLARGED FLOOR PLAN - DOMESTIC WATER 1/4" = 1'-0" 02

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.

C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE SHALL THE CONNECTION SIZE BE LARGER THAN THE BRANCH PIPING SIZE.

KEY NOTES

1. 2" VENT CONNECT TO EXISTING 2" VENT THRU ROOF. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND PIPE SIZE.
2. REPLACE EXISTING FLOOR DRAIN STRAINER WITH NEW TO MATCH EXISTING. REMOVE ALL DEBRIS FROM DRAIN BEFORE INSTALLING NEW STRAINER.
3. EXISTING WATER HEATER SERVING JANITOR'S SINK TO REMAIN.
4. 2" COLD WATER DOWN IN PIPE CHASE AND CONNECT TO FIXTURES.
5. PROVIDE MAIN SHUT-OFF VALVE IN EVERY RESTROOM. PROVIDE ACCESS PANEL IF AVOVE HARD LID.
6. CONNECT 2" COLD WATER TO EXISTING 2" COLD WATER MAIN ABOVE CEILING.
7. COLD WATER DOWN IN WALL AND CONNECT TO FIXTURES.
8. 4" SEWER DOWN TO BELOW FLOOR AND 2" VENT UP.
9. 2" VENT DOWN TO FIXTURE.
10. 4" SEWER CONNECT NEW PIPING BELOW FLOOR TO EXISTING SEWER PIPING. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND PIPE SIZE.
11. 2" SEWER DOWN AND 1-1/2" VENT UP.
12. 1-1/2" VENT DOWN TO BELOW FLOOR AND CONNECT TO 2" SEWER PIPING BELOW FLOOR.

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Mountain Empire Unified School District

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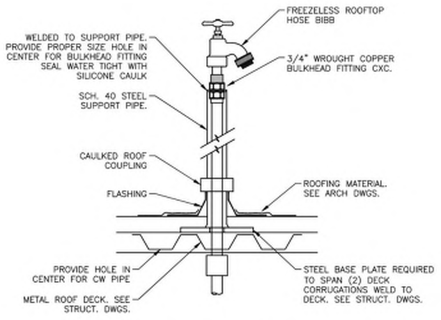
CHECKED BY: SOBE

PLUMBING ENLARGED PLANS BUILDING C

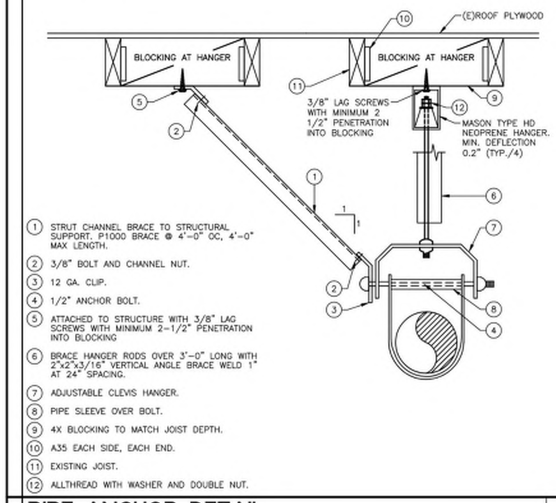
P-303



ROOFTOP HOSE BIBB DETAIL

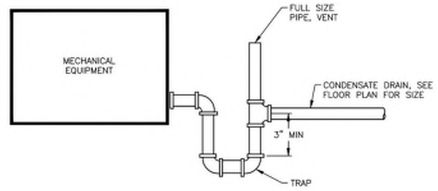
SCALE: NONE | 10

PIPE SUPPORT SPACING SCHEDULE (TABLE 313.3 CPC 2019)			
MATERIAL	TYPES OF JOINT	HORIZONTAL	VERTICAL
CAST-IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4FT. THEN SUPPORT EACH JOINT [1,AAA]	BASE AND EACH FLOOR, NOT TO EXCEED 15 FT.
COPPER & COPPER COPPER ALLOYS	SOLDERED, BRAZED, THREADED, OR MECHANICAL	1-1/2 INCHES AND SMALLER, 6FT. 2 INCHES AND LARGER, 10FT.	EACH FLOOR, NOT TO EXCEED 10 FT [3]
STEEL PIPE FOR WATER OR DWV	THREADED OR WELDED	3/4 INCH AND SMALLER, 10FT. 1 INCHES AND LARGER, 12FT.	EVERY OTHER FLOOR, NOT EXCEED 25 FT [3]
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, 10 FEET	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES EVERY FLOOR LEVEL
SCHEDULE 40 PVC & ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET [3]	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET



PIPE ANCHOR DETAIL

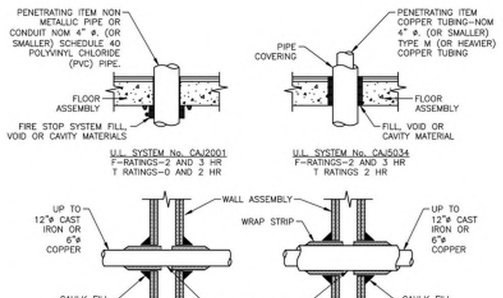
SCALE: NONE | 11



NOTE: CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS INTO MECHANICAL UNITS PRIOR TO START OF WORK. BRANCH PIPE SIZE SHALL NOT BE LESS THAN THE CONNECTION SIZE.

CONDENSATE DRAIN TRAP DETAIL

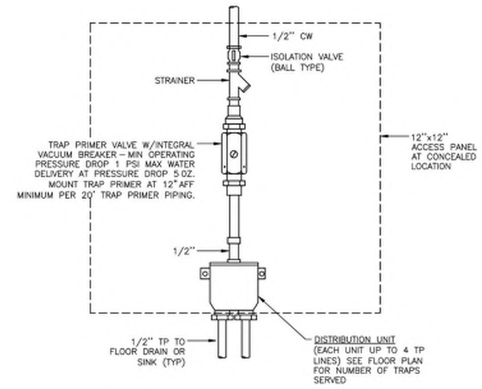
SCALE: NONE | 7



NOTE: PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS, FLOORS OR CEILING ASSEMBLIES REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY AS PRESCRIBED IN C.B.C. SECTION 714 AND AS APPROVED BY THE STATE FIRE MARSHALL (C.B.C. 4304(E), 4305(A))

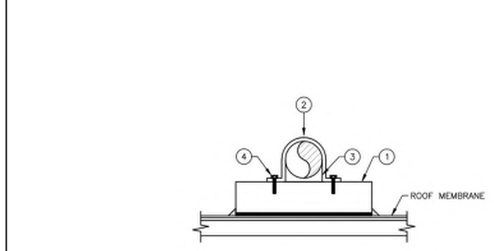
PIPE PENETRATION DETAIL

SCALE: NONE | 4



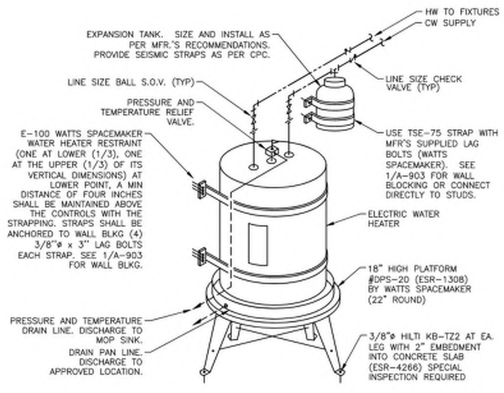
TRAP PRIMER DETAIL

SCALE: NONE | 1



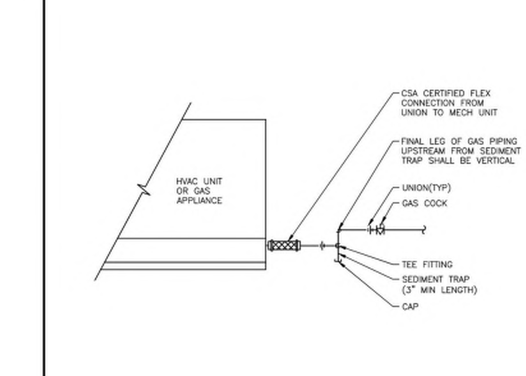
PIPING SUPPORT DETAIL

SCALE: NONE | 12



ELECTRIC WATER HEATER DETAIL

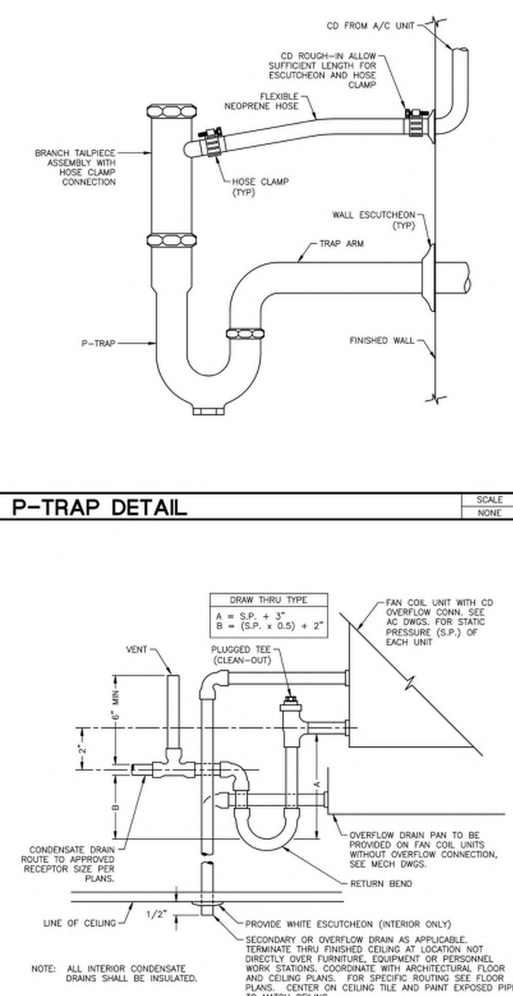
SCALE: NONE | 9



NOTE: SEDIMENT TRAP NOT REQUIRED FOR APPLIANCES WITH INTERNAL SEDIMENT TRAP, RANGES, CLOTHES DRYERS, FIREPLACES OR OUTDOOR GRILLES.

GAS CONNECTION DETAIL

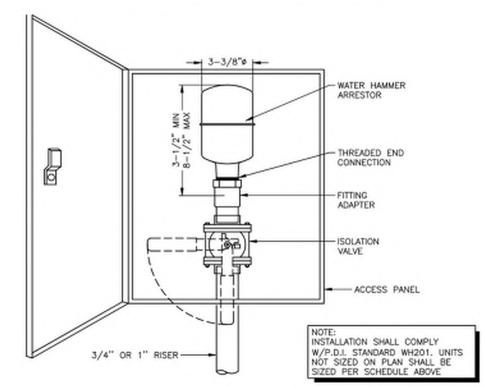
SCALE: NONE | 8



P-TRAP DETAIL

SCALE: NONE | 5

WATER HAMMER ARRESTOR SCHEDULE						
P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION SIZE	3/4"	1"	1"	1"	1"	1"



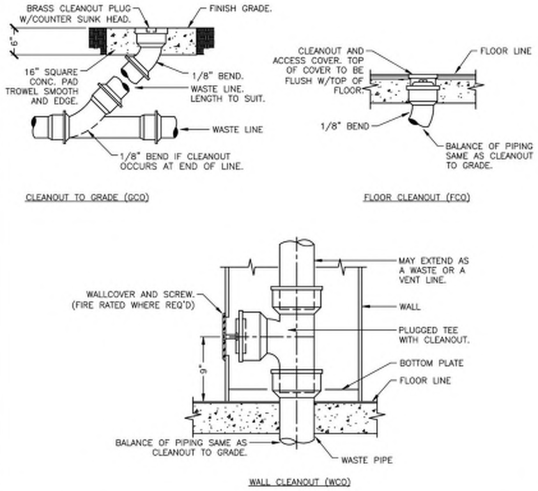
WATER HAMMER ARRESTOR DETAIL

SCALE: NONE | 2

NOTE: ALL INTERIOR CONDENSATE DRAINS SHALL BE INSULATED.

CONDENSATE DRAIN DETAIL

SCALE: NONE | 6



FLOOR AND GRADE CLEANOUT DETAILS

SCALE: NONE | 3

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SDVOSB

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

PLUMBING DETAILS

P-501

27/2021 9:46:11 AM

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS IN THIS LEGEND MAY OR MAY NOT BE USED IN THIS PROJECT. FLOOR PLANS SHALL DICTATE WHICH SYMBOLS ARE APPLICABLE.

SYMBOL	DESCRIPTION
A-1,3	CONDUIT HOMERUN WITH PANEL DESIGNATION AND CIRCUITS INDICATED.
— — — —	CONDUIT/WIRING, INSTALLED IN OR BELOW FLOOR SLAB.
------------	CONDUIT/WIRING, EXPOSED.
———	CONDUIT/WIRING CONCEALED IN WALL OR CEILING SPACE.
	CONDUIT, FLEXIBLE CONNECTION DRY LOCATIONS – FLEXIBLE STEEL CONDUIT WET LOCATIONS – LIQUIDTIGHT FLEXIBLE STEEL CONDUIT
A	LIGHT FIXTURE DESIGNATION
	LED LIGHTING FIXTURE UPPER CASE LETTER(S) = FIXTURE TYPE NUMBER = CIRCUIT NUMBER LOWER CASE LETTER(S) = ROOM SWITCHING CIRCUITS AND NUMBER OF SWITCHES NOTE: THIS LABELING SCHEME IS TYPICAL FOR ALL LIGHT FIXTURES.
	LED, WALL MOUNTED LIGHT FIXTURE.
	LED STRIP OR UNDERCABINET TASK LIGHT
	LED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY POWER SYSTEM.
	POLE MOUNTED LIGHT FIXTURE WITH POLE AND FOUNDATION. NUMBER AND ORIENTATION OF LUMINAIRES AS SHOWN ON DRAWINGS.
	LIGHTING FIXTURE, WALL OR BRACKET MOUNTED.
	LIGHTING FIXTURE, SURFACE OR RECESSED MOUNTED.
	LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY POWER SYSTEM.
	TRACK LIGHTING WITH FIXTURES.
MS	MOTION SENSOR, DUAL TECHNOLOGY, CEILING MOUNTED NOT TO BE LOCATED WITHIN 48" OF ANY HVAC DIFFUSER.
	EXIT LIGHT FIXTURE. DARKENED AREA INDICATES FIXTURE FACE. ARROW INDICATES DIRECTION OF FACE ARROW. LL = LOW LEVEL
S 3 ab	LIGHT SWITCH, WALL MOUNTED AT +42" AFF, U.O.N. 2 = TWO POLE, 3 = THREE WAY, 4 = FOUR WAY a,b = INDICATES ROOM SWITCHING CIRCUITS AND NUMBER OF SWITCHES D = DIMMER K = KEYED OC = OCCUPANCY SENSOR, DUAL TECHNOLOGY VS = VACANCY SENSOR, MANUAL ON, WHERE REQUIRED BY CODE P = PILOT LIGHT, LIGHTED IN THE OFF POSITION. BP = BYPASS TIMER WP = WEATHERPROOF WR = WEATHER RESISTANT F = FAN SWITCH S = SOLATUBE CONTROL T = TIMER SWITCH LV = LOW VOLTAGE
J	JUNCTION BOX, HANDHOLE OR PULLBOX WITH COVER, SIZE PER NEC, ART. 314.28.
	GROUND
	FUSE
M	UTILITY COMPANY APPROVED CT/METER PROVISIONS
	FUSED SWITCH
	CIRCUIT BREAKER
TC	TIME CLOCK
	LIGHTING OR POWER PANEL – FLUSH MOUNT UNLESS INDICATED OTHERWISE
LA	DISTRIBUTION BOARD, LIGHTING OR POWER PANEL DESIGNATION
	MOTOR OR MECHANICAL EQUIPMENT, WITH FLEXIBLE CONNECTION
FC 3	MECHANICAL EQUIPMENT DESIGNATION
30AS 3P F	DISCONNECT SWITCH (30=AMPS 3=POLES) NEMA 1 INDOORS NEMA 3R IN WET LOCATIONS F = FUSED PROVIDE TIME-DELAY TYPE FUSE(S) SIZED PER EQUIPMENT MANUFACTURERS NAMEPLATE RATING.
SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTOR
'0' ☒	MAGNETIC MOTOR STARTER WITH THERMAL OVERLOAD PROTECTOR
30AS 3P ☒ '0'	COMBINATION MOTOR STARTER WITH FUSED SWITCH, WITH THERMAL OVERLOAD PROTECTOR AND DUAL ELEMENT FUSES. (30=AMPS, 3=POLES 0=STARTER SIZE).
⊡	PUSHBUTTON OR SHUNT TRIP STATION
GFI	DUPLEX RECEPTACLE, +18" AFF, U.O.N.; NEMA 5-20R, U.O.N.; NUMBER INDICATES CIRCUIT NUMBER. GFIF = GROUND FAULT INTERRUPTION, FEED-THRU TYPE WP = WEATHERPROOF WITH A WEATHERPROOF WHILE-IN-USE COVER WR = WEATHER-RESISTANT TYPE RECEPTACLE WITH A WEATHERPROOF WHILE IN-USE COVER GFI = GROUND FAULT INTERRUPTION.
OR	DOUBLE DUPLEX RECEPTACLE, +18" AFF, U.O.N.
	DUPLEX RECEPTACLE ABOVE COUNTERTOP BACKSPLASH, VERIFY REQ'D HEIGHT
J	POWER RECEPTACLE, SEE POWER RECEPTACLE SCHEDULE FOR NEMA CONFIGURATION AND SIZE.
	POWER POLE, WITH NUMBER OF RECEPTACLES INDICATED
	DUPLEX RECEPTACLE, PEDESTAL MOUNTED
	CEILING MOUNTED DUPLEX RECEPTACLE AT T-BAR CEILING NOT TO BE MOUNTED IN CEILING SPACE.
	DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED, WITH HINGED COVER, U.O.N.
	CORD SUSPENDED CEILING RECEPTACLE, WITH STRAIN RELIEF ASSEMBLY
	SURFACE MOUNTED DUPLEX RECEPTACLE +18" AFF, U.O.N.
	SURFACE MOUNTED DOUBLE DUPLEX RECEPTACLE +18" AFF, U.O.N.
	DOUBLE DUPLEX RECEPTACLE, +18" AFF, U.O.N. 1-CONTROLLED + 1-UNCONTROLLED DUPLEX RECEPTACLE. CONTROLLED RECEPTACLE TO BE GRAY IN COLOR.

SYMBOL	DESCRIPTION
DD	DUCT MOUNTED SMOKE DETECTOR
SS	SOLID STATE, ELECTRONIC, ADJUSTABLE TRIP CIRCUIT BREAKER WITH LSIG.
DS	DAYLIGHT SENSOR
SD	SMOKE DETECTOR

Signal Systems

SYMBOL	DESCRIPTION
	TELEPHONE OR TERMINAL BACKBOARD
	TELEPHONE OR TERMINAL CABINET, WITH PLYWOOD BACKBOARD
S	PAGING SPEAKER, WALL MOUNT
S	PAGING SPEAKER, CEILING MOUNT WITH BACKBOX
I	INTRUSION INFRARED SENSOR.
	TIME-OF-DAY CLOCK OUTLET AND CLOCK, AT +96" AFF, U.O.N.
TV	CABLE TELEVISION OUTLET, AT +18" AFF, U.O.N.
C/S	CLOCK AND SPEAKER COMBINATION
◁	DATA JUNCTION BOX, AT +18" AFF U.O.N., WITH 1-1/4" CONDUIT WITH PULLSTRING UP TO NEAREST CABLE TRAY OR ACCESSIBLE TO CEILING SPACE. REFER TO SPECIFICATIONS FOR CABLING TYPE.
◀	TELEPHONE JUNCTION BOX, AT +18" AFF U.O.N., WITH 1-1/4" CONDUIT WITH PULLSTRING UP TO NEAREST ACCESSIBLE TO CEILING SPACE. REFER TO SPECIFICATIONS FOR CABLING TYPE.
◀	TELE/DATA JUNCTION BOX AT +18" AFF, U.O.N., WITH (2)1-1/4" CONDUIT WITH PULLSTRING UP TO NEAREST CABLE TRAY OR ACCESSIBLE CEILING SPACE. W = WALL MOUNT AT +42" AFF, U.O.N. REFER TO SPECIFICATIONS FOR CABLING TYPE.
	CEILING MOUNTED DATA AT T-BAR CEILING NOT TO BE MOUNTED IN CEILING SPACE, WITH 1" CONDUIT AND (1) CAT 6 CABLE TO INTERMEDIATE DISTRIBUTION FRAME AS INDICATED ON DWGS.
	VIDEO PROJECTOR SHOWN FOR REFERENCE ONLY
△	DATA OUTLET, FLUSH FLOOR MOUNTED, WITH HINGED COVER, U.O.N.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE SPECIFICALLY INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE EXISTING CONDITIONS, AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH THEY WILL BE REQUIRED TO PERFORM THEIR WORK.
2. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REMODELED AREA. THIS WILL INCLUDE REROUTING, OR THE EXTENSION OF, EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF EXISTING EQUIPMENT REMAINING.
3. ALL CIRCUIT NUMBERS AND EXISTING CONDUIT HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED.
4. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT-OFF AND CAPPED FLUSH WITH FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS UNLESS NOTED OTHERWISE.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.
6. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS OF SAME TYPE, STYLE AND RATING (MINIMUM 20 AMP, SINGLE POLE) AS CALLED FOR ON DRAWINGS. IDENTIFY EACH NEW CIRCUIT ON PANEL SCHEDULE.
7. EXISTING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, BUT IN NO CASE SHALL ANY EXISTING CONDUCTORS BE REUSED.
8. ALL ABANDONED OUTLETS INCLUDING LIGHT, RECEPTACLES, TELEPHONE, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.
9. ALL LIGHTING FIXTURES REMOVED TO ACCOMPLISH DEMOLITION WORK SHALL BE REINSTALLED SIMILAR TO NEW WORK

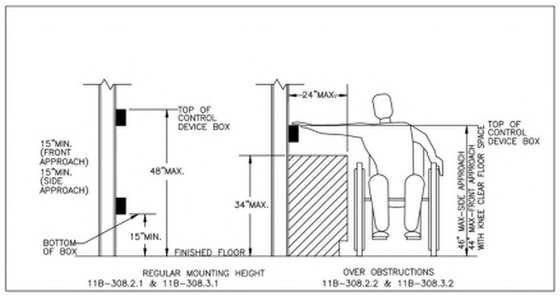
BRANCH CIRCUIT WIRING NOTE:

1. FOR RECEPTACLE CIRCUITS AND 120 VOLT BRANCH CIRCUITS, UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING CONDUCTORS: (1) #12 CONDUCTOR FOR EACH PHASE (I.E. CIRCUIT NUMBER) AND (1) SEPARATE DEDICATED #12 NEUTRAL CONDUCTOR FOR EACH SINGLE 120 VOLT CIRCUIT OR FOR 2 TO 3 CIRCUITS PROVIDED THEY ARE OF DIFFERENT PHASES; (1) EQUIPMENT GROUNDING CONDUCTOR, SIZED PER CEC. FOR CIRCUITS TO COMPUTER/DATA EQUIPMENT, PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.
2. FOR LIGHTING BRANCH CIRCUITS, PROVIDE THE FOLLOWING CONDUCTORS: (1) #12 CONDUCTOR FOR EACH PHASE (I.E. CIRCUIT NUMBER); (1) #12 NEUTRAL CONDUCTOR FOR A SINGLE, 120 OR 277 VOLT CIRCUIT, OR (1) #12 NEUTRAL CONDUCTOR FOR 2 TO 3 CIRCUITS WHERE EACH CIRCUIT IS ON A DIFFERENT PHASE; (1) EQUIPMENT GROUNDING CONDUCTOR, SIZED PER CEC ARTICLE 250 (DO NOT USE A COMMON NEUTRAL FOR MULTIPLE CIRCUITS ON SAME PHASE) (1) INTERCONNECTING CONDUCTOR BETWEEN EACH 3-WAY AND/OR 4-WAY SWITCH

APPLICABLE CODES

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 EDITION INTERNATIONAL BUILDING CODE, VOL. 1 & 2)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 EDITION NATIONAL ELECTRICAL CODE)
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 EDITION IAPMO UNIFORM MECHANICAL CODE)
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 EDITION IAPMO UNIFORM PLUMBING CODE)
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
- 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 EDITION INTERNATIONAL FIRE CODE)
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 EDITION INTERNATIONAL)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen), PART 11, TITLE 24 CCR
- 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS
- 2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

ADA MOUNTING HEIGHT REFERENCES



REGULAR MOUNTING HEIGHT
11B-308.2.1 & 11B-308.3.1

OVER OBSTRUCTIONS
11B-308.2.2 & 11B-308.3.2

PROJECT NOTES

1. THESE DOCUMENTS MAY NOT BE USED FOR ANY REPRODUCTION, BIDDING, OR CONSTRUCTION UNLESS AUTHORIZED, IN WRITING, BY SALAS O'BRIEN AND THE ENGINEER OF RECORD RESPONSIBLE FOR THEIR PREPARATION.
2. VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS, DIMENSIONS, ELEVATIONS, POINTS OF CONNECTION AND PROJECT CONSTRUCTION LIMITS BEFORE SUBMITTING BID. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
3. THESE DRAWINGS ARE DIAGRAMMATIC AND ONLY INDICATE THE INTENT OF OUTLETS, DEVICES, ETC., TO BE CONNECTED AND THE CIRCUIT NUMBERS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL REQUIRED JUNCTION BOXES ETC., AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM WHICH COMPLIES WITH ALL LOCAL AND NATIONAL GOVERNING CODES.
4. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
5. LOCATIONS OF ALL EQUIPMENT SHALL BE VERIFIED PRIOR TO ROUGH-IN.
6. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN COMPLIANCE WITH OSHA.
7. PVC CONDUIT, WITH CODE SIZED GROUND, SHALL BE USED UNDERGROUND ONLY, IF APPROVED BY LOCAL CODE. INSTALL PER LOCAL CODE REQUIREMENTS. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR PVC COATING.
8. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM.
9. ALL MATERIALS SHALL BE NEW, AND OF THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY THE UNDERWRITER'S LABORATORIES, AND SHALL BEAR THE INSPECTION LABEL WHERE SUBJECT TO SUCH APPROVAL. MATERIAL SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY, AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY A.N.S.I., U.L., N.E.M.A. AND N.B.F.U. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
10. ALL CONDUIT SHALL BE INSTALLED CONCEALED WHERE PHYSICALLY POSSIBLE. ALL EXPOSED CONDUIT SHALL BE INTERMEDIATE METAL CONDUIT AND INSTALLED PARALLEL TO OR AT RIGHT ANGLES WITH THE BUILDING WALLS. IF VIEWED BY THE PUBLIC, PAINT TO MATCH SURFACE TO WHICH IT IS ATTACHED.
11. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES, O.S.H.A. AND THE CURRENTLY ADOPTED NATIONAL ELECTRICAL CODE (N.E.C.).
12. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF THE NEC, ARTICLE 250.
13. ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED AREA SEPARATION AND CORRIDOR ASSEMBLIES INCLUDING CONDUITS AND PIPING SHALL BE TIGHTLY AND SOLIDLY SEALED WITH FIRESTOPPING WALLBOARD COMPOUND AND SHALL BE AN APPROVED MATERIAL AS REQUIRED BY LOCAL ENFORCING AGENCY.
14. ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS, UTILITY CHARGES AND PAY FOR SAME. COORDINATE AND PAY FOR ALL ELECTRICAL SERVICE CHARGES WITH THE BUILDING DEPARTMENT, SERVING UTILITY AND OWNER.
15. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER AFTER DATE OF ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
16. CONDUCTORS SHALL BE CODE GRADE, 600 VOLT CLASS, COPPER (UNLESS NOTED OTHERWISE) MARKED EVERY 24" ALONG IT'S LENGTH SHOWING MANUFACTURER'S NAME, MAXIMUM ALLOWABLE VOLTAGE AND SIZE. GENERAL PURPOSE WIRING SHALL BE SOLID COPPER CONDUCTORS #10 AND SMALLER, STRANDED COPPER CONDUCTORS FOR #8 AND LARGER, TYPE 'THWN'(WET) OR 'THHN'(DRY). FOR SPECIAL PURPOSE WIRE TYPES REFER TO EQUIPMENT MANUFACTURER'S PLANS.
17. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
18. USE ONLY COMPETENT AND SKILLED PERSONNEL AND PERFORM ALL WORK, INCLUDING AESTHETIC AS WELL AS ELECTRICAL AND MECHANICAL ASPECTS TO STANDARDS CONSISTENT WITH THE BEST PRACTICES OF THE TRADE.
19. ALL ELECTRICAL SYSTEM CONDUCTORS SHALL BE INSTALLED IN APPROVED RACEWAYS. NON-METALLIC SHEATHED CABLE IS NOT APPROVED.
20. WHERE IT BECOMES NECESSARY TO DRILL INTO OR CUT THROUGH ANY EXISTING SLABS, WALKWAYS OR DRIVES TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT, OR TO REPAIR ANY DEFECTS THAT MAY APPEAR TO THE EXPIRATION OF THE WARRANTY, SUCH CUTTING AND PATCHING SHALL PERFORMED BY TRADESMAN EXPERIENCED IN THE WORK REQUIRED. CONTRACTOR SHALL PAY FOR ALL COSTS REQUIRED FOR CUTTING OR REPAIRING. ALL FINISHES SHALL MATCH EXISTING OR NEW ADJACENT SURFACES.
21. ALL BROCHURES, OPERATING MANUALS, CATALOGS, ETC. SHALL BE TURNED OVER TO THE OWNER AT JOB COMPLETION.
22. ALL SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT TEN (10) DAYS PRIOR TO BID. SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO, COST SAVINGS, WRITTEN REASON FOR SUBSTITUTION AND A WRITTEN STATEMENT THAT IF THE SUBSTITUTION IS APPROVED, THERE WILL BE NO DELAY IN DELIVERY, CONSTRUCTION TIME OR COST TO OTHER TRADES.
23. PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL MAJOR PIECES OF EQUIPMENT. PLATES SHALL BE 3 PLY, BLACK FACE, WHITE CORE WITH 1/4" HIGH CONDENSED GOTHIC LETTERING. SCREW-ON ATTACHMENT ONLY. NO CEMENT.
24. PROVIDE THE OWNER WITH ONE (1) SET OF COMPLETE ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DEPTHS AND LOCATIONS.
25. WHERE A CONFLICT OCCURS BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS ISSUED AS PART OF THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL.
26. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES. THE OWNER WILL MAKE NO SUBSEQUENT ALLOWANCE FOR ELECTRICAL WORK REQUIRED BY OTHER TRADES. OBTAIN ALL OTHER PERTINENT INFORMATION REQUIRED TO MEET ACTUAL BUILDING OR FIELD CONDITIONS.
27. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR. CONNECTIONS TO ALL EQUIPMENT FURNISHED BY OTHERS SHALL BE COORDINATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.
28. NOTIFY THE OWNER'S REPRESENTATIVE WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, TRANSFORMERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS) THAT ARISE ON THE DRAWINGS AND/OR SPECIFICATIONS. PROVIDE AND INSTALL ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATIONS TO INSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.
29. ALL FEEDER AND BRANCH CIRCUITS SHALL BE PROVIDED WITH AN EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC, AND RUN IN THE SAME RACEWAY OR CONDUIT SUPPLYING SUCH FEEDER OR BRANCH CIRCUIT.
30. TRENCH AND BACKFILL AS REQUIRED TO PERFORM UNDERGROUND WORK. USE EXTREME CAUTION WHEN TRENCHING SO AS NOT TO INTERFERE WITH EXISTING UNDERGROUND UTILITIES. REPAIR ANY DAMAGE CAUSED BY UNDERGROUND TRENCHING.
31. PATCH AND REPAIR WALLS OR CEILINGS WHICH HAVE BEEN DAMAGED BECAUSE OF ELECTRICAL WORK.
32. CONDUIT SHALL NOT BE RUN THROUGH ANY STRUCTURAL MEMBER OF THE BUILDING, EXCEPT AS SPECIFICALLY DIRECTED BY THE OWNER'S REPRESENTATIVE. UNDER NO CIRCUMSTANCE SHALL CONDUIT RUN THROUGH COLUMNS, FOOTINGS OR GRADE BEAMS.
33. FOR ADDITIONAL ROUGH-IN AND WIRING REQUIREMENTS SEE MANUFACTURER'S INSTALLATION PLANS, WHICH ARE SUPPLEMENTAL TO AND PART OF THE ELECTRICAL WORK.
34. EXACT ROUTING OF ALL FEEDERS, CONDUITS, ETC. SHALL BE FIELD VERIFIED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. COORDINATE THE INSTALLATION WITH OTHER TRADES.
35. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF RECESSED, SURFACE OR PENDANT MOUNTED LIGHT FIXTURES.
36. COLD WATER PIPE GROUNDING BOND SHALL BE LOCATED WITHIN 5' OF BUILDING ENTRANCE.
37. CONTRACTOR SHALL VERIFY EXACT LOADS OF HVAC EQUIP. WITH MECHANICAL ENGINEER AND HVAC UNIT MANUFACTURER PRIOR TO START OF WORK. IN CASE OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, INFORM ARCHITECT AND ELECTRICAL ENGINEER IN WRITING PRIOR TO PROCEEDING ANY FURTHER.
38. PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE S.M.A.C.N.A. "GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS AND PLUMBING AND PIPING SYSTEMS".
39. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:
    - A. EQUIPMENT ON GRADE – 20% OF OPERATING WEIGHT
    - B. EQUIPMENT ON STRUCTURE – 30% OF OPERATING WEIGHT
    - C. FOR FLEXIBLY MOUNTED EQUIPMENT USE FOUR (4) TIMES THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE ONE-THIRD (1/3) TIMES THE HORIZONTAL FORCE.
    - D. THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR I = 1.0 AND SEISMIC DESIGN CATEGORY D
    - E. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD INSPECTOR.
40. ALL OUTLET RATINGS SHALL BE 20 AMPS, UNLESS NOTED OTHERWISE.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDED ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAN DIRECTLY SUPPORTS THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #______.

ABBREVIATIONS

A	AMPS
AF	AMP FUSE (SIZE), AMP FRAME (SIZE)
AFCI	ARC FAULT CURRENT INTERRUPT
AFF	ABOVE FINISH FLOOR
AS	AMP SWITCH (SIZE)
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CIR	CIRCUIT
CO	CONDUIT ONLY, WITH PULL LINE
CU	COPPER
EDF	ELECTRIC DRINKING FOUNTAIN
EM	EMERGENCY POWER
EMT	ELECTRICAL METALLIC TUBING
EX	EXISTING
EXP	EXPLOSION PROOF
F	FUSE
G	GROUND CONDUCTOR
GFI	GROUND FAULT INTERRUPT PROTECTION
GND	GROUND
I.G.	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
ISC	INTERRUPTING SHORT CIRCUIT
LCL	LONG CONTINUOUS LOAD
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NA	NON-AUTOMATIC
NEC	NATIONAL ELECTRICAL CODE
NKE	NO KNOWN EQUAL; NO SUBSTITUTES
NOM	NOMINAL
NTS	NOT TO SCALE
P	POLE
PH OR ø	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
SFM	STATE FIRE MARSHAL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TYP	TYPICAL, UNLESS NOTED OTHERWISE, OF MANY
U.O.N.	UNLESS OTHERWISE NOTED OR INDICATED
V	VOLTS
WP	WEATHERPROOF
X	EXISTING TO REMAIN
XL	EXISTING TO BE RELOCATED
XN	NEW LOCATION OF RELOCATED EQUIPMENT
XR	EXISTING TO BE REMOVED
XFMR	TRANSFORMER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

No. E18809
Exp. 6/30/23

SALASOBRIEN
3220 EXECUTIVE RIDGE
SUITE 210
VISTA, CA 92081
TEL: (760) 560-0100
#21089
09-23-22
www.salasobrien.com
E-Mail admin@tsqeng.com

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

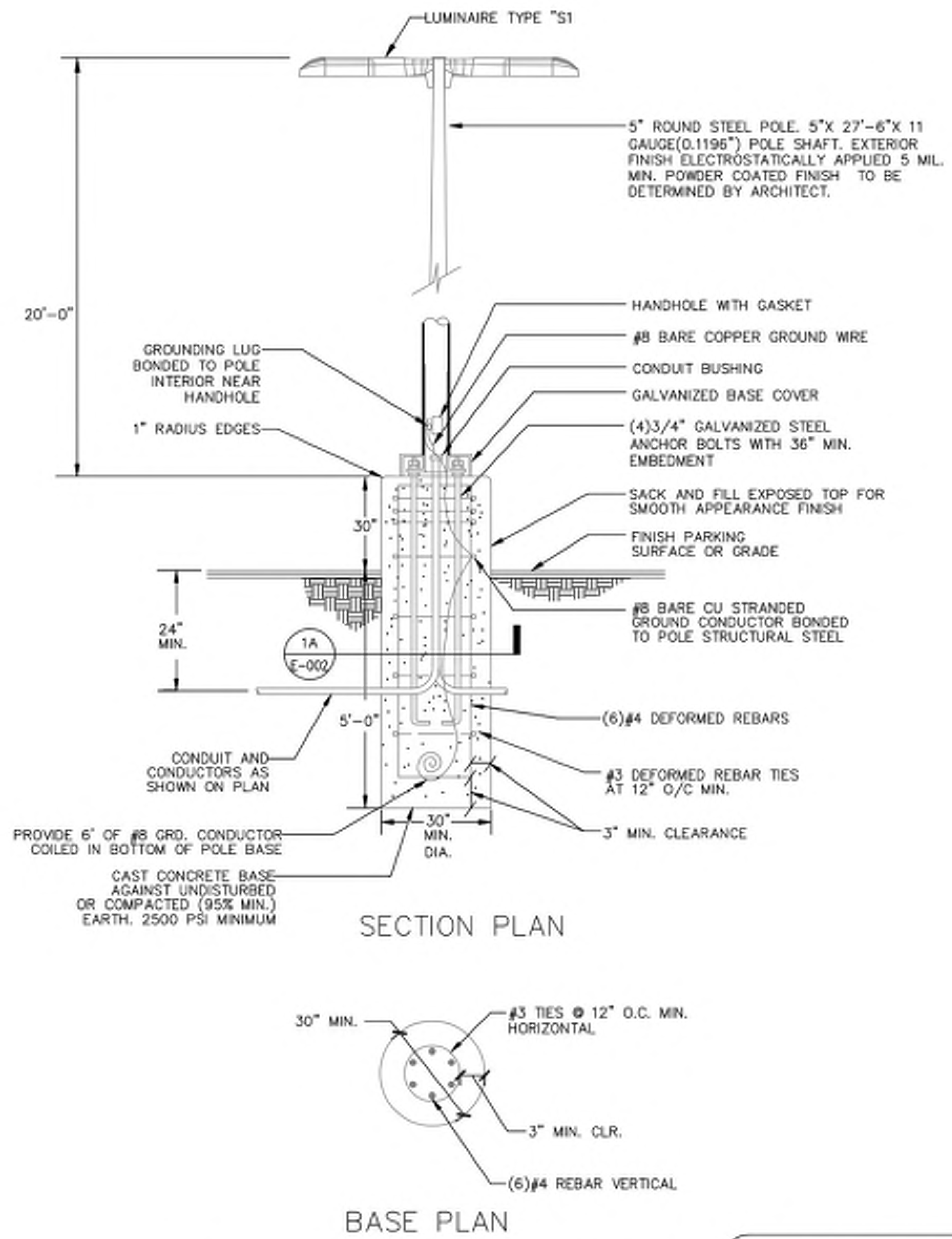
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: SOBE
CHECKED BY: SOBE

ELECTRICAL LEGEND AND GENERAL NOTES

E-001

7/27/2021 9:46:11 AM



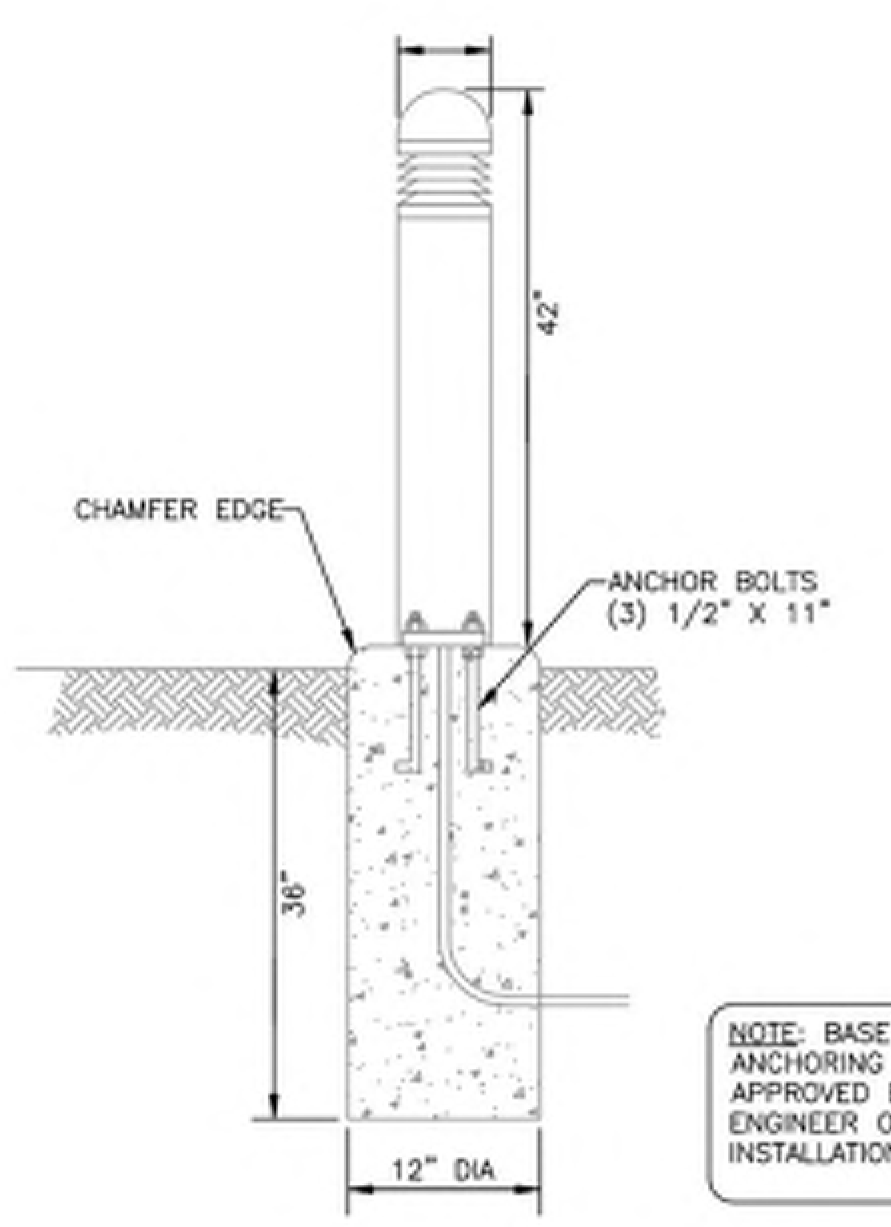
FOOTING BASE PLAN 1A NTS

NOTE: POLE BASE DIMENSIONS AND ANCHORING HARDWARE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLATION.

LIGHT POLE LESS THAN 35' HIGH IS EXEMPT FROM DSA STRUCTURAL REVIEW PER DSA IR A-22.

SCALE: NONE

FIXTURE TYPE 'S1' DETAIL (1)



NOTE: BASE DIMENSIONS AND ANCHORING HARDWARE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLATION.

SCALE: NONE

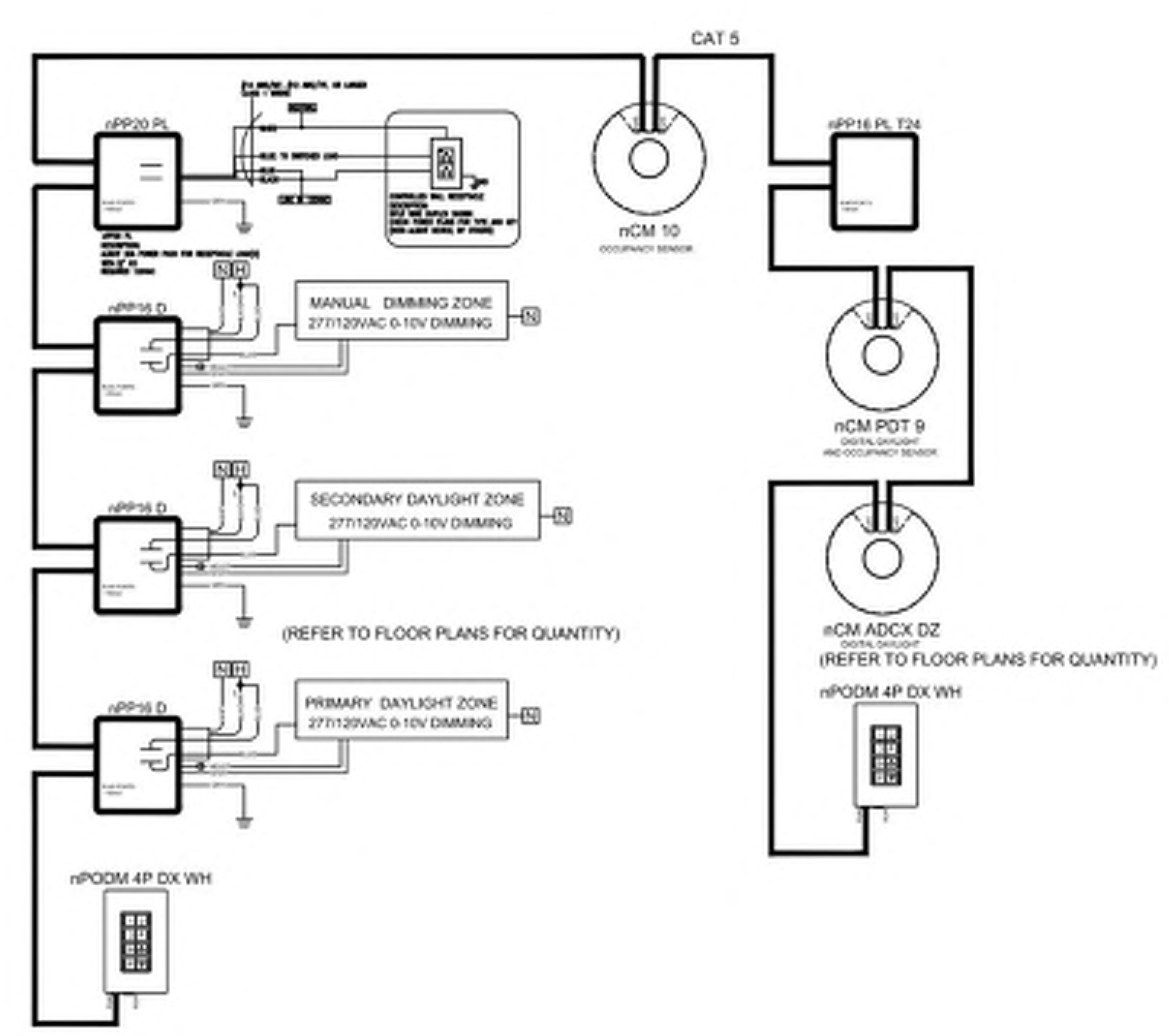
FIXTURE TYPE 'S2' DETAIL (2)

LIGHTING FIXTURE SCHEDULE

FIXT DES	SYMBOL	LAMP TYPE	FIXTURE MOUNTING	LAMP DESC	WATTS	VOLTS	MFR/CATALOG	DESCRIPTION
F1		LED	RECESSED	LED 4000K 4300 LUMENS	35	120	DAY-BRITE 2EVG43L840-4-D-UNV-DIM	2'x4' LED VOLUMETRIC TROFFER WITH MULTI-VOLT 0-10 DIMMABLE DRIVER.
F1E		LED	RECESSED	LED 4000K 4300 LUMENS	35	120	DAY-BRITE 2EVG43L840-4-D-UNV-DIM-EMLED	SIMILAR TO TYPE "F1" EXCEPT WITH 90 MINUTES EMERGENCY BATTER PACK
F2		LED	RECESSED	LED 4000K 4300 LUMENS	35	120	DAY-BRITE 2EVG43L840-4-D-UNV-DIM	2'x4' LED LENSED WITH MULTI-VOLT 0-10 DIMMABLE DRIVER.
F2E		LED	RECESSED	LED 4000K 4300 LUMENS	35	120	DAY-BRITE 2EVG43L840-4-D-UNV-DIM	SIMILAR TO TYPE "F2" EXCEPT WITH 90 MINUTES EMERGENCY BATTER PACK
F3		LED	WALL	LED 4000K	47	120	GARDCO 121-16L-1200-BW-G4-3-EBPC-DD PCB-F1-BZ	LED WALL MOUNTED FIXTURE WITH FLAT LENS, TYPE III DISTRIBUTION, INTEGRAL DRIVER, LISTED FOR WET LOCATIONS, 90-MINUTE EMERGENCY BATTERY BACKUP AND INTEGRAL PHOTOCELL.
F4		LED	SURFACE	24.5W LED 4000K 2750 LUMENS	24	120	DAY-BRITE FSW440L840-UNV -DIM	4' WRAPAROUND LIGHT FIXTURE WITH ELECTRONIC BALLAST.
E		LED	SURFACE	1W LED	1	120	BEGHELLI LC-1-SA-LR-1-B-B	EXIT SIGN LIGHT FIXTURE, WHITE HOUSING, RED LETTERS, 90 MINUTE BACKUP BATTERY AND SELF DIAGNOSTICS. FACES AND ARROWS PER PLANS
S1		LED	POLE	LED 4000K	526	120	NLS LIGHTING VUE-2-80L-1-40K UNV DPS6 GRN HSS MS	LED POST MOUNTED FIXTURE WITH TYPE V DISTRIBUTION LENS, MARINE GRADE FINISH AND LISTED FOR WET LOCATIONS. DOUBLE
S2		LED	BOLLARD	LED 4000K	20W	120	-	LED BOLLARDS FIXTURE WITH DISTRIBUTION LENS, MARINE GRADE FINISH AND LISTED FOR WET LOCATIONS. DOUBLE

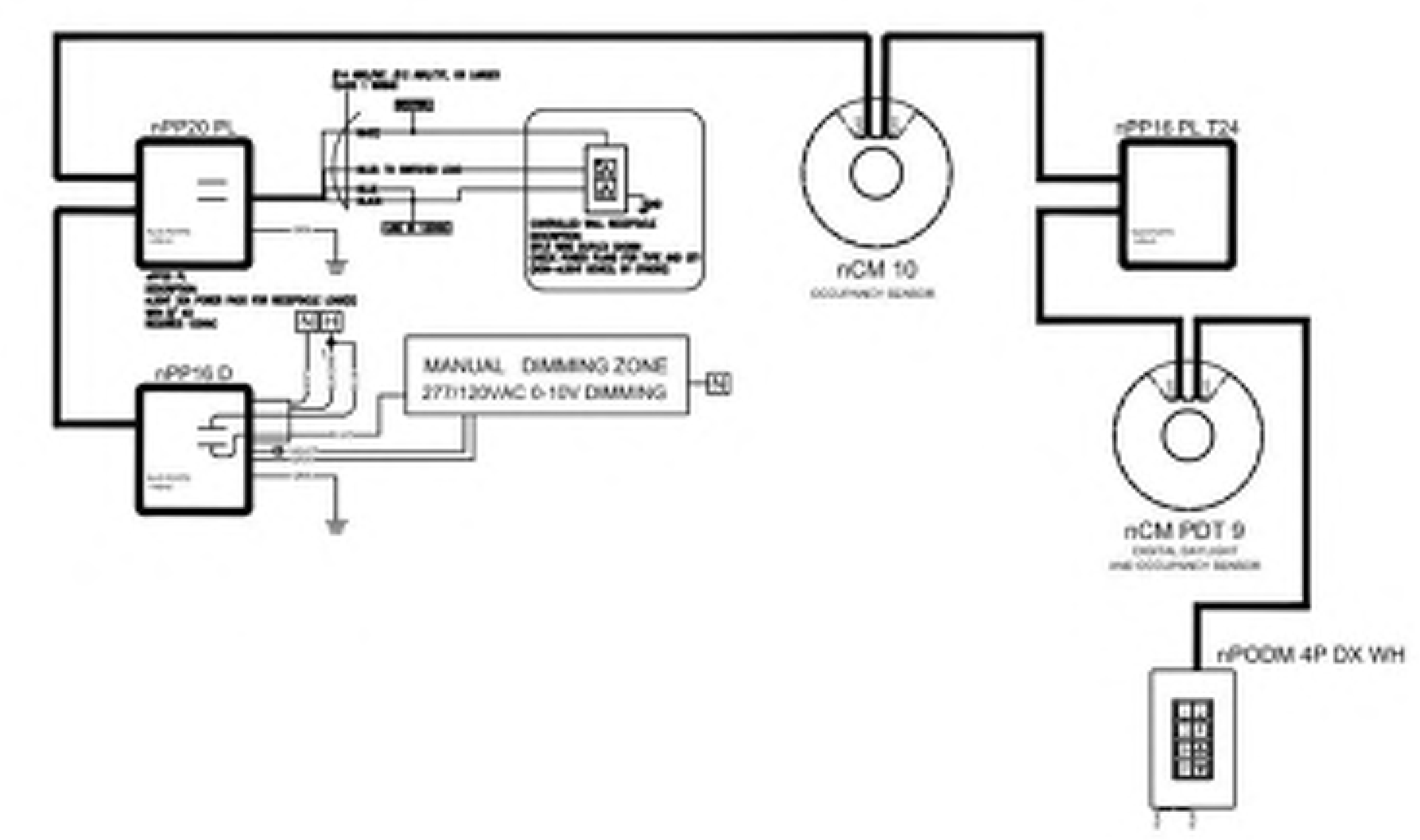
LIGHTING FIXTURE NOTES:

1. PROVIDE SPECIFIED LIGHTING MANUFACTURER FOR EACH LIGHT FIXTURE. ANY SUBSTITUTIONS SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE LISTED MANUFACTURERS CATALOG NUMBER. SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT.



SCALE: NONE

RECEPTION CONTROL (3)



SCALE: NONE

SMALL OFFICES/CONFERENCE CONTROL (4)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
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www.davyarchitecture.com

SDVOSB

SALASOBRIEN
3220 EXECUTIVE RIDGE SUITE 210
VISTA, CA 92081
#21089
09-23-22

Mountain Empire Unified School District

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: SOBE
CHECKED BY: SOBE

LIGHTING FIXTURE SCHEDULE AND CONTROL PANELS

E-002

7/27/2021 9:46:11 AM

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 7 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: Ed David	Documentation Author Signature: Eduardo G Davy
Company: Salas O'Brien Engineers	Signature Date: 2022-04-26
Address: 3220 Executive Ridge Suite 210	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Vista CA 92081	Phone: (760)560.0100

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ed David	Responsible Designer Signature: Eduardo G Davy
Company: Salas O'Brien	Date Signed: 2022-04-26
Address: 3220 Executive Ridge Suite 210	License: E18809
City/State/Zip: Vista CA 92081	Phone: (760)560-0100

Registration Number:
Registration Date/Time:
Registration Provider: EnergySoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.0.001
Schema Version: rev 20190401
Report Generated: 2022-04-26 14:35:31

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 4 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Pedestrian Hardscape	Photocontrol	Yes	Yes	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Registration Number:
Registration Date/Time:
Registration Provider: EnergySoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.0.001
Schema Version: rev 20190401
Report Generated: 2022-04-26 14:35:31

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 1 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

A. GENERAL INFORMATION

01	Project Location (city)	Pine Valley	04	Total Illuminated Hardscape Area (ft²)	45000
02	Climate Zone	14			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas		☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from §140.7	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number:
Registration Date/Time:
Registration Provider: EnergySoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.0.001
Schema Version: rev 20190401
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STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 5 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01					
☑ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)
This section does not apply to this project.
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	9	10
Area Description	Surface Type	Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			Total General AWA + LWA (Watts)
		Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Pedestrian Hardscape	Asphalt	45000	0.03	1125	2000	0.4	500	1625
						Initial Wattage Allowance for Entire Site (Watts):		350
						Total General Hardscape Allowance (Watts):		1975

J. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

Registration Number:
Registration Date/Time:
Registration Provider: EnergySoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 2 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L									Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08
1,975	+		+		+		+		OR		=	1,975	≥	1,975	COMPLIES
Cutoff Compliance (See Table G for Details)															Not Applicable
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number:
Registration Date/Time:
Registration Provider: EnergySoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.0.001
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 6 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

Registration Number:
Registration Date/Time:
Registration Provider: EnergySoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.0.001
Schema Version: rev 20190401
Report Generated: 2022-04-26 14:35:31

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 3 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total number luminaires [4]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req.: > 6,200 initial lumen output §130.2(b) [4]	Field Inspector	
										Pass	Fail
F3	LED WALL MOUNTED FIXTURE	☐ Linear	47	Mfr. Spec[5]	15	New	☐	705	NA: < 6200 lumens	☐	☐
S1	LED POST MOUNTED FIXTURE	☐ Linear	526	Mfr. Spec[5]	2	New	☐	1,052	NA: < 6200 lumens	☐	☐
S2	LED BOLLARD	☐ Linear	20	Mfr. Spec[5]	9	New	☐	180	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1937			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)
This section does not apply to this project.

Registration Number:
Registration Date/Time:
Registration Provider: EnergySoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019.0.001
Schema Version: rev 20190401
Report Generated: 2022-04-26 14:35:31

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
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1053 TENTH AVENUE
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REGISTERED PROFESSIONAL ENGINEER EDWARD A. DAVY LICENSE E18809 Exp. 6/30/23 ELECTRICAL STATE OF CALIFORNIA

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E-Mail: admin@lsapnp.com

MOUNTAIN EMPIRE RedHawks HIGH SCHOOL

Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

OUTDOOR TITLE 24

E-003

7/27/2021 9:46:11 AM

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 7 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
Documentation Author Name: Ed David	Documentation Author Signature: Eduardo G David
Company: Salas O'Brien Engineers	Signature Date: 2022-04-26
Address: 3220 Executive Ridge Suite 210	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Vista CA 92081	Phone: (760)560,0100

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ed David	Responsible Designer Signature: Eduardo G David
Company: Salas O'Brien	Date Signed: 2022-04-26
Address: 3220 Executive Ridge Suite 210	License: E18809
City/State/Zip: Vista CA 92081	Phone: (760)560-0100

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 4 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
Library	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Open Office	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Office	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Conference Room	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13 — Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Library	Library Stacks	1.1	780	858	No	No
Open Office	Office Open Plan	0.6	765	459	No	No
Office	Office 250 square feet or less	0.7	445	311.5	No	No

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 1 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

A. GENERAL INFORMATION

01	Project Location (city)	Pine Valley	04	Total Conditioned Floor Area (ft²)	2,235
02	Climate Zone	14	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☒ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☒ Other (Write in)	See Table I

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	2235	Area Category Method	0
☐ New Lighting System - Parking Garage				
☐ Altered Lighting System				
Total Area of Work (ft²)	2235		0	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 5 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Conference Room	Convention, Conference, Multipurpose and Meeting Center Areas	0.85	245	208.25	No	No
		TOTALS:	2,235	1,836.75	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P.POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 2 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments: PAF Lighting Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned	0	1,836.75	0	0	=	1836.75	≥	1,260	0	=	1260	COMPLIES
Unconditioned	0	0	0	0	=		≥	0	0	=		
											Controls Compliance (See Table H for Details)	COMPLIES
											Rated Power Reduction Compliance (See Table Q for Details)	

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
F1/F1E	2X4 LED VOLUMETRIC TROFFER	No	No	35	Mfr. Spec[1]	24	No	840	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 6 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

R. 80% LIGHTING POWER FOR ALLALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MEUSD MEHS MOD	Report Page:	(Page 3 of 7)
Project Address:	3305 Buckman Springs Rd	Date Prepared:	4/26/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

F2/F2E	2X4 LED LENSED	No	No	35	Mfr. Spec[1]	12	No	420	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,260		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When an control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Not Required 10,000 SF	See Area/Space Level Controls	☐	☐

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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

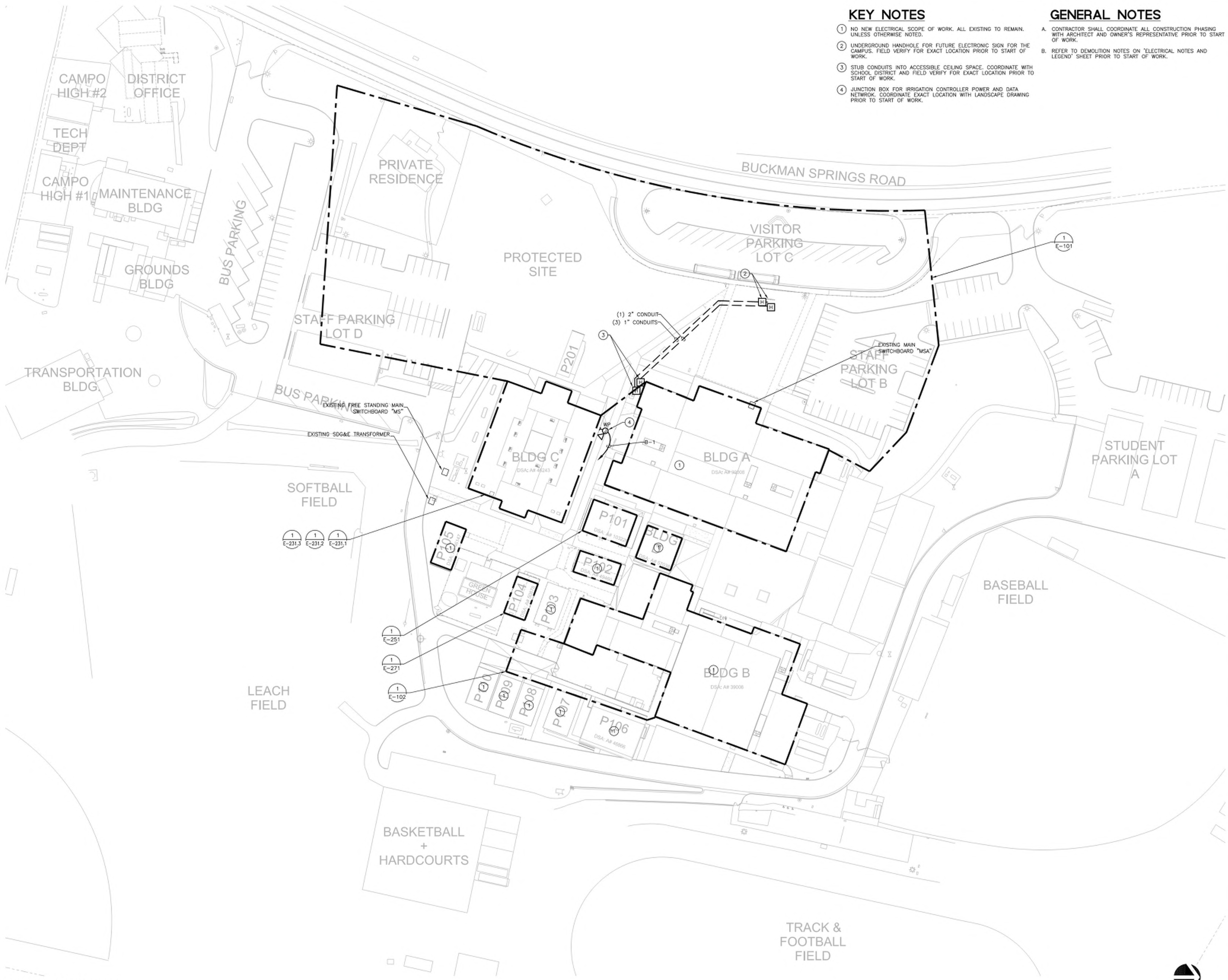
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

P101-BOOKROOM INTERIOR TITLE 24

E-004

7/27/2021 9:46:11 AM



KEY NOTES

1. NO NEW ELECTRICAL SCOPE OF WORK. ALL EXISTING TO REMAIN. UNLESS OTHERWISE NOTED.
2. UNDERGROUND HANDHOLE FOR FUTURE ELECTRONIC SIGN FOR THE CAMPUS. FIELD VERIFY FOR EXACT LOCATION PRIOR TO START OF WORK.
3. STUB CONDUITS INTO ACCESSIBLE CEILING SPACE. COORDINATE WITH SCHOOL DISTRICT AND FIELD VERIFY FOR EXACT LOCATION PRIOR TO START OF WORK.
4. JUNCTION BOX FOR IRRIGATION CONTROLLER POWER AND DATA NETWROK. COORDINATE EXACT LOCATION WITH LANDSCAPE DRAWING PRIOR TO START OF WORK.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.

B. REFER TO DEMOLITION NOTES ON 'ELECTRICAL NOTES AND LEGEND' SHEET PRIOR TO START OF WORK.

(1) ELECTRICAL SITE PLAN

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E-Mail admin@tsqeng.com

Mountain Empire Unified School Disctrict

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3305 Buckman Springs Rd, Pine Valley, CA 91962

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DAVY PROJECT No: 2017
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CHECKED BY: SOBE

ELECTRICAL SITE PLAN

E-100

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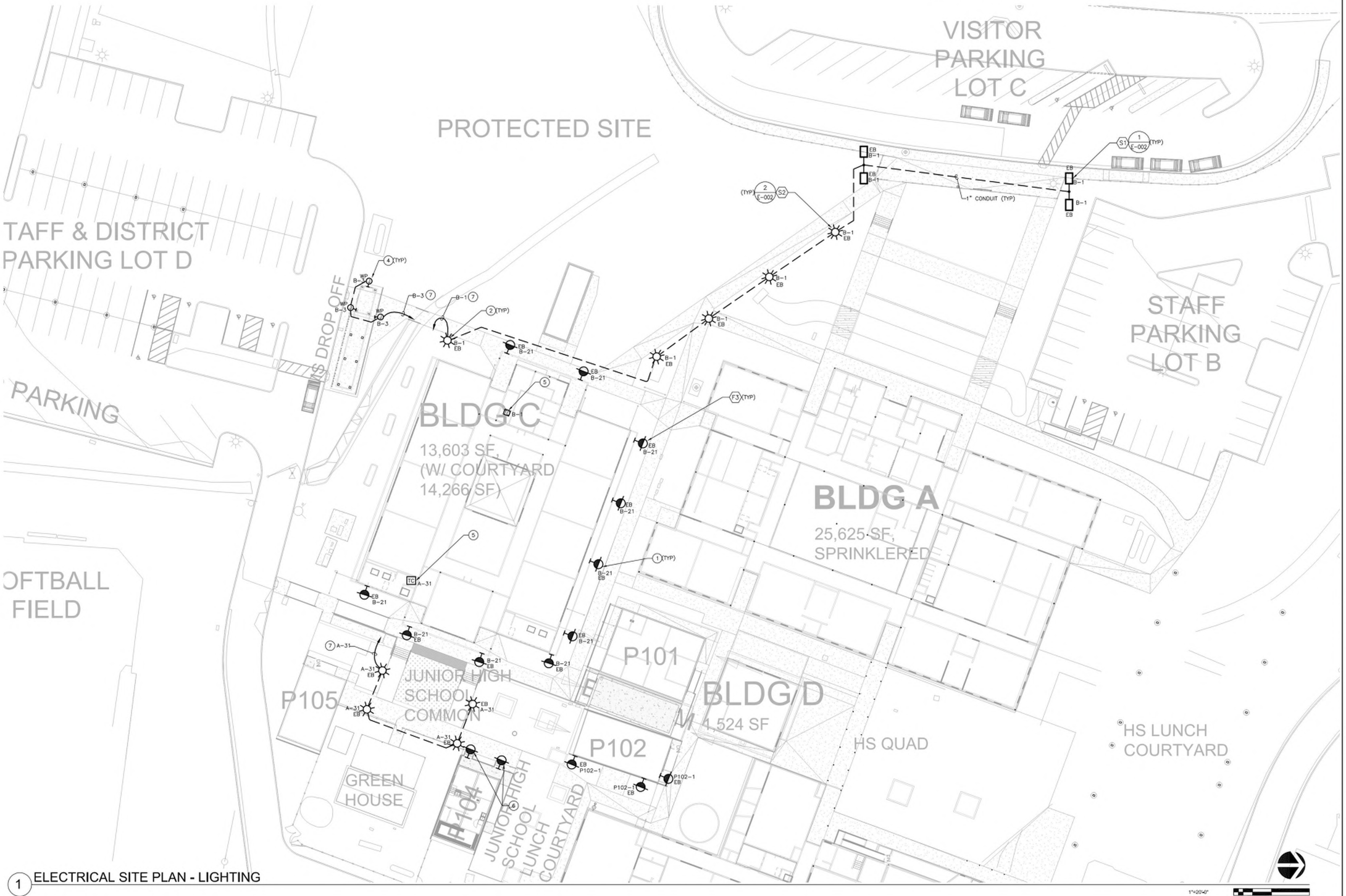
KEY NOTES

1. NEW WALL SCONCE WITH EMERGENCY BATTERY PACK TO BE CONNECT TO EXISTING CIRCUIT AS SHOWN. ROUTE CIRCUIT TO THRU TIME CLOCK.
2. 42" BOLLARD WITH BATTERY BACKUP FOR EGRESS PATHWAY LIGHTING. ROUTE CIRCUIT THRU TIMECLOCK AND EMERGENCY BATTERY BACKUP.
3. DUAL HEAD POLE LIGHTING FIXTURE.
4. JUNCTION BOX FOR BUILDING SIGNAGE. ROUTE CIRCUIT THRU BUILDING TIME CLOCK. REFER TO ARCHITECTURAL DRAWING ELEVATION FOR SIGNAGE LOCATION.
5. PROVIDE DIGITAL TITLE 24 COMPLIANT PROGRAMMABLE TIMECLOCK CONTROL WITH 4 RELAYS.
6. SEE SHEET E-271.
7. ROUTE CIRCUIT THRU TIMECLOCK.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.

B. REFER TO DEMOLITION NOTES ON 'ELECTRICAL NOTES AND LEGEND' SHEET PRIOR TO START OF WORK.



1 ELECTRICAL SITE PLAN - LIGHTING

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Mountain Empire Unified School Disctrict

Project No.2017

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MARK	DATE	DESCRIPTION
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DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

ELECTRICAL SITE PLAN - LIGHTING

E-101

GENERAL NOTES

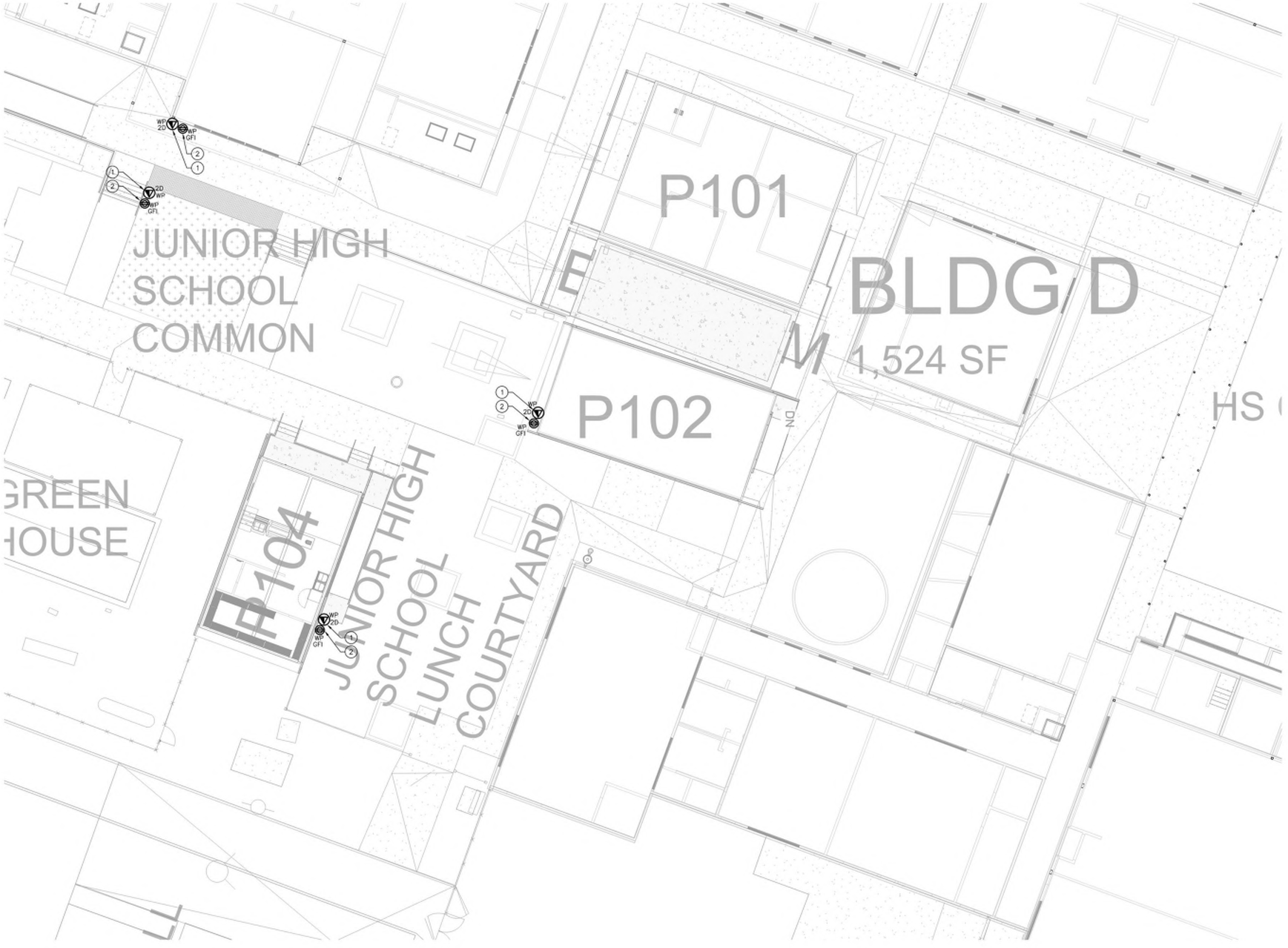
A. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PHASING WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.

B. REFER TO DEMOLITION NOTES ON 'ELECTRICAL NOTES AND LEGEND' SHEET PRIOR TO START OF WORK.

KEY NOTES

(1) WEATHERPROOF DATA OUTLET MOUNT UNDER THE SOFFIT. ROUTE CABLE TO THE NEAREST BUILDING IDF CLOSET. COORDINATE WITH SCHOOL DISTRICT IT FOR EXACT LOCATION.

(2) WEATHERPROOF GFI OUTLET MOUNT UNDER THE SOFFIT NEXT TO DATA OUTLET, FIELD VERIFY FOR EXACT MOUNTING LOCATION.



1 ELECTRICAL ENLARGED SITE PLAN

1"=10'-0"

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Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire
Junior High School
Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA
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DAVY PROJECT No:	2017
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ELECTRICAL
ENLARGED
SITE PLAN

E-102

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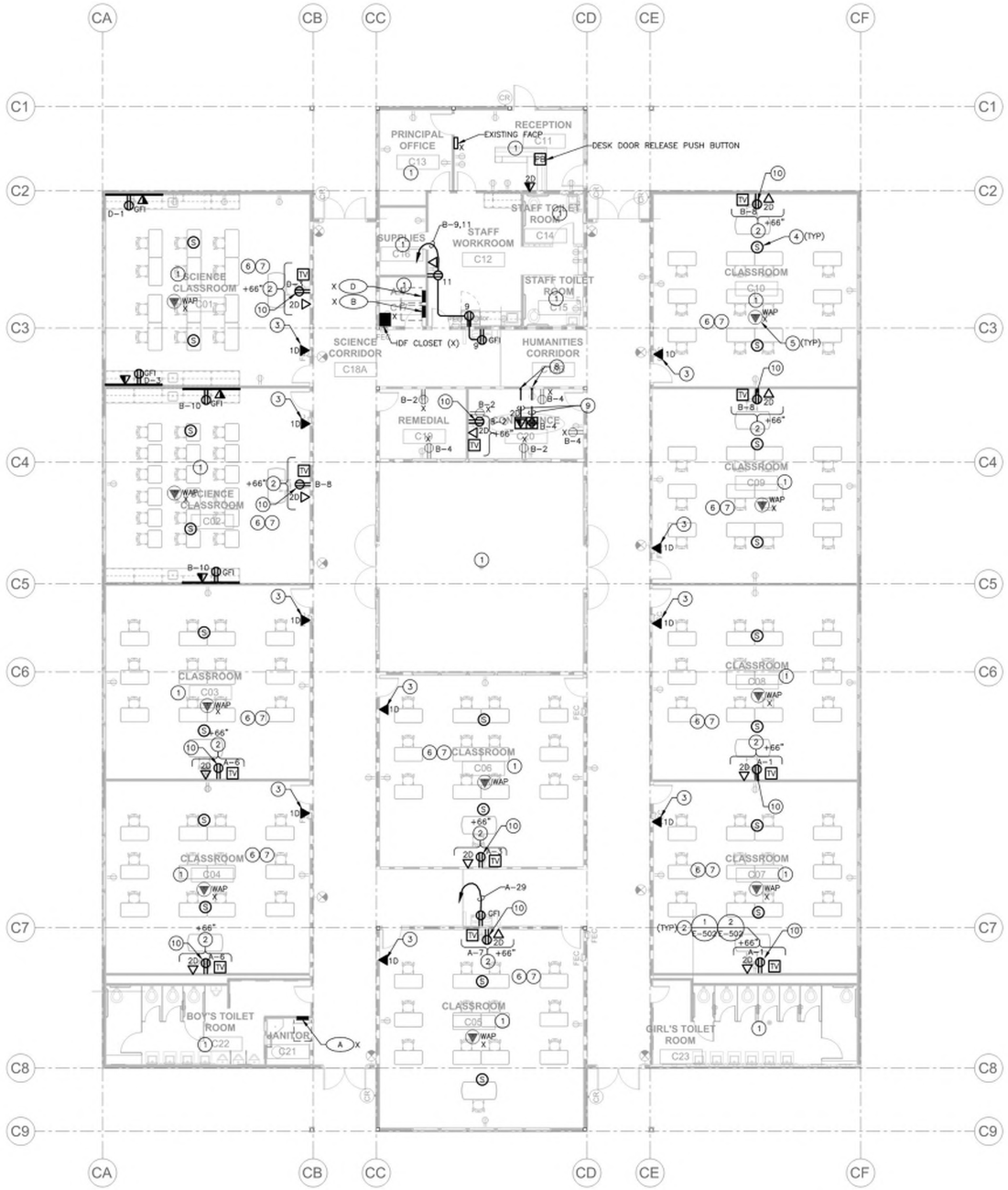

1 ELECTRICAL FLOOR PLAN - BUILDING C

1/8"=1'-0"

0' 2' 4' 8' 16'

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. CONTRACTOR SHALL VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL FIXTURES WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.

KEY NOTES

1. ALL ELECTRICAL EXISTING TO REMAIN. NO NEW ELECTRICAL WORK, UNLESS OTHERWISE NOTED.
2. POWER AND DATA DROP FOR PROMETHEAN BOARD. COORDINATE EXACT MOUNT LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO START OF WORK.
3. PHONE DATA OUTLET. COORDINATE WITH SCHOOL DISTRICT FOR EXACT LOCATION AND HEIGHT.
4. LOCAL CLASSROOM CEILING MOUNT SPEAKERS FOR PROMETHEAN BOARD TV.
5. EXISTING WIRELESS ACCESS POINT TO REMAIN. SHOWN FOR REFERENCE ONLY.
6. PROVIDE ASSISTIVE LISTENING SYSTEM (ALS) TO BE INTEGRATED WITH TOPCAT AV SYSTEM. REFER TO SPECIFICATIONS FOR TYPE AND QUANTITY OF (ALS) PER CBC 11B-219. COORDINATE WITH THE SCHOOL DISTRICT FOR (ALS) STORAGE LOCATION.
7. ALL NEW VOICE AND DATA CABLES ROUTE TO THE EXISTING BUILDING IDF CLOSET. CONTRACTOR FIELD VERIFY FOR LOCATION PRIOR TO START OF WORK.
8. STUB CONDUIT UP INTO ACCESSIBLE CEILING SPACE 1" CONDUIT FOR DATA AND 3/4" CONDUIT FOR POWER
9. FLOOR DATA AND POWER OUTLETS MOUNT UNDER TABLE. SAW CUT EXISTING CONCRETE FLOOR AND PROVIDE 1" CONDUIT FOR DATA AND 3/4" CONDUIT FOR POWER.
10. INTERCEPT AND EXTEND NEW OUTLET TO EXISTING CIRCUIT. BRANCH CIRCUIT NUMBER AS SHOWN. FIELD VERIFY EXISTING CIRCUIT CONDITION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYER OF HEROES
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REGISTERED PROFESSIONAL ENGINEER
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Exp. 6/30/23
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Mountain Empire Unified
School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

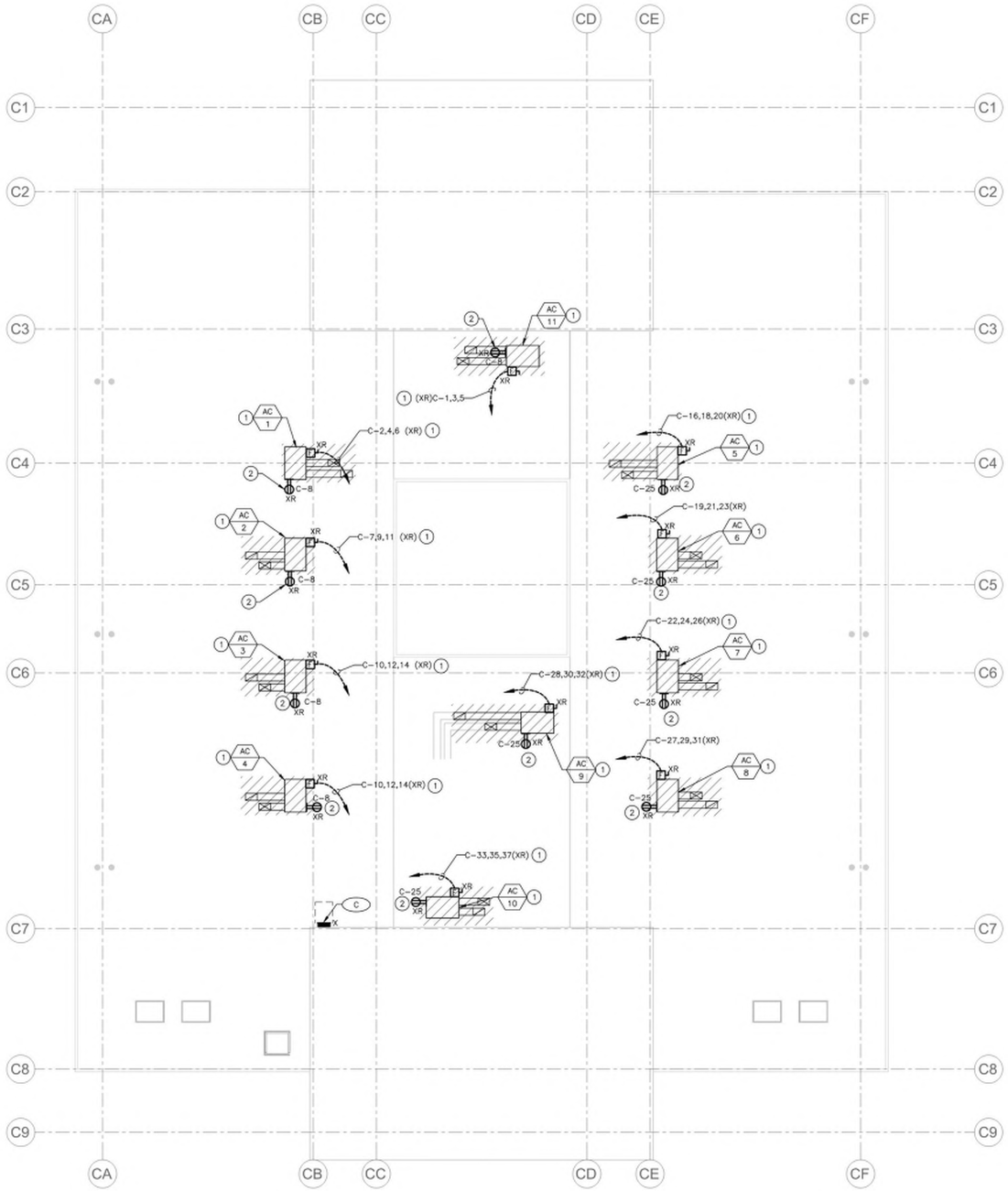
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

ELECTRICAL FLOOR PLAN BUILDING C

E-231.1

7/27/2021 9:46:11 AM



1 ELECTRICAL DEMOLITION ROOF PLAN - BUILDING C

1/8"=1'-0"

0' 2' 4' 8' 16'

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. REFER TO DEMOLITION NOTES ON 'ELECTRICAL NOTES AND LEGEND' SHEET PRIOR TO START OF WORK.

KEY NOTES

(1) DISCONNECT EXISTING MECHANICAL EQUIPMENT AND ALL THE ASSOCIATED ELECTRICAL DISCONNECT SWITCHES, CONDUCTORS, CONDUITS BACK TO ITS ORIGINAL SOURCE.

(2) DISCONNECT AND REMOVE EXISTING ELECTRICAL OUTLET ON MECHANICAL UNIT AND ALL THE ASSOCIATED ELECTRICAL CONDUCTORS AND CONDUITS BACK TO ITS ORIGINAL SOURCE.

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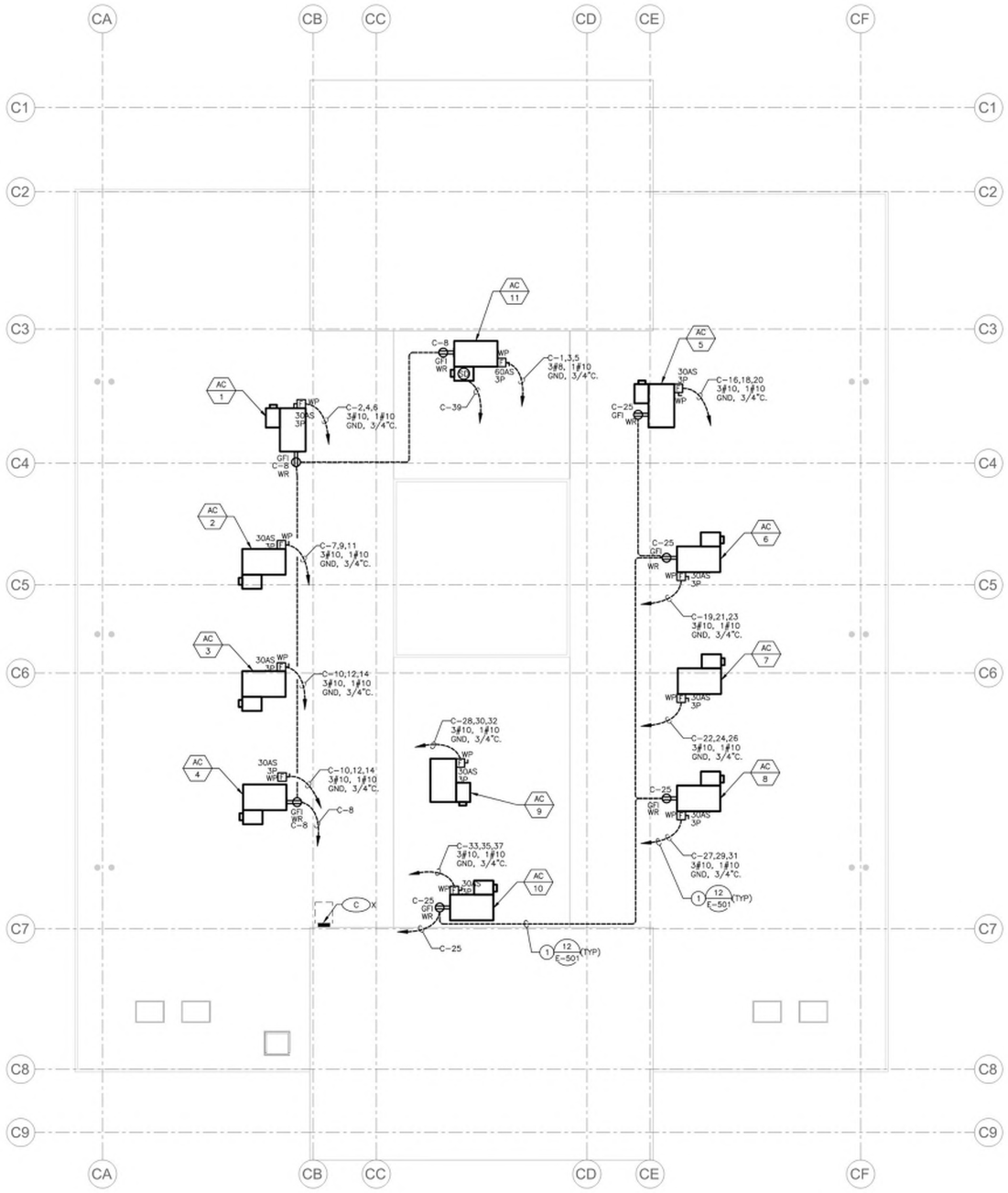
ELECTRICAL DEMOLITION ROOF PLAN BUILDING C

E-231.2

7/27/2021 9:46:11 AM



1 ELECTRICAL ROOF PLAN - BUILDING C

1/8"=1'-0"

0 2 4 8 16

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. CONTRACTOR SHALL VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL OUTLETS WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.

C. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND REQUIREMENTS PRIOR TO START OF WORK.

D. MECHANICAL EQUIPMENT FUSE SIZE RATINGS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

E. ALL MECHANICAL EQUIPMENT FUSIBLE DISCONNECTS AND MOTOR RATED SWITCHES EXPOSED TO WEATHER SHALL BE WEATHERPROOF RATED NEMA 3R.

KEY NOTES

(1) PROVIDE ALL CONDUITS WITH ROOF MOUNTING SUPPORTS.

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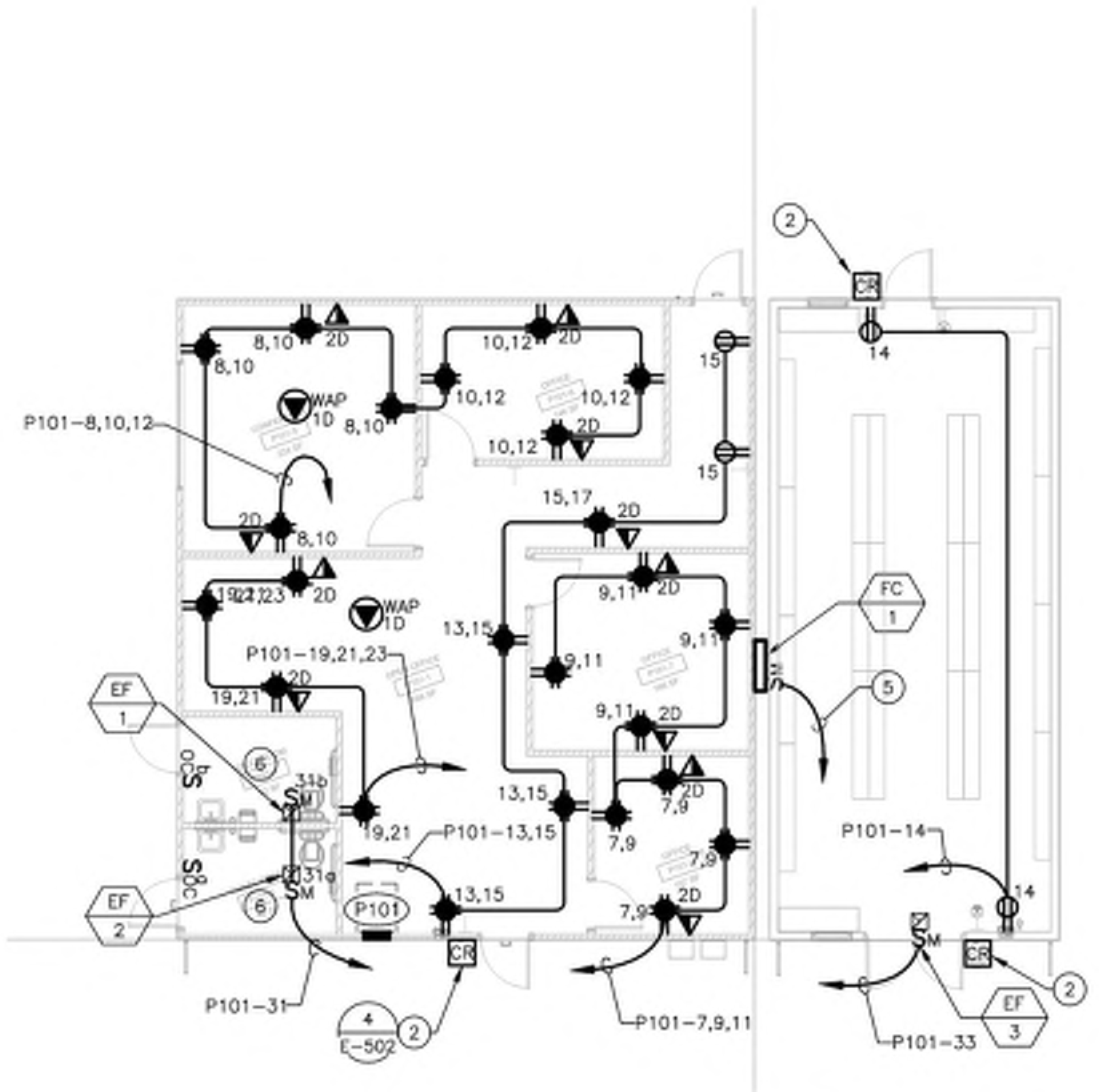
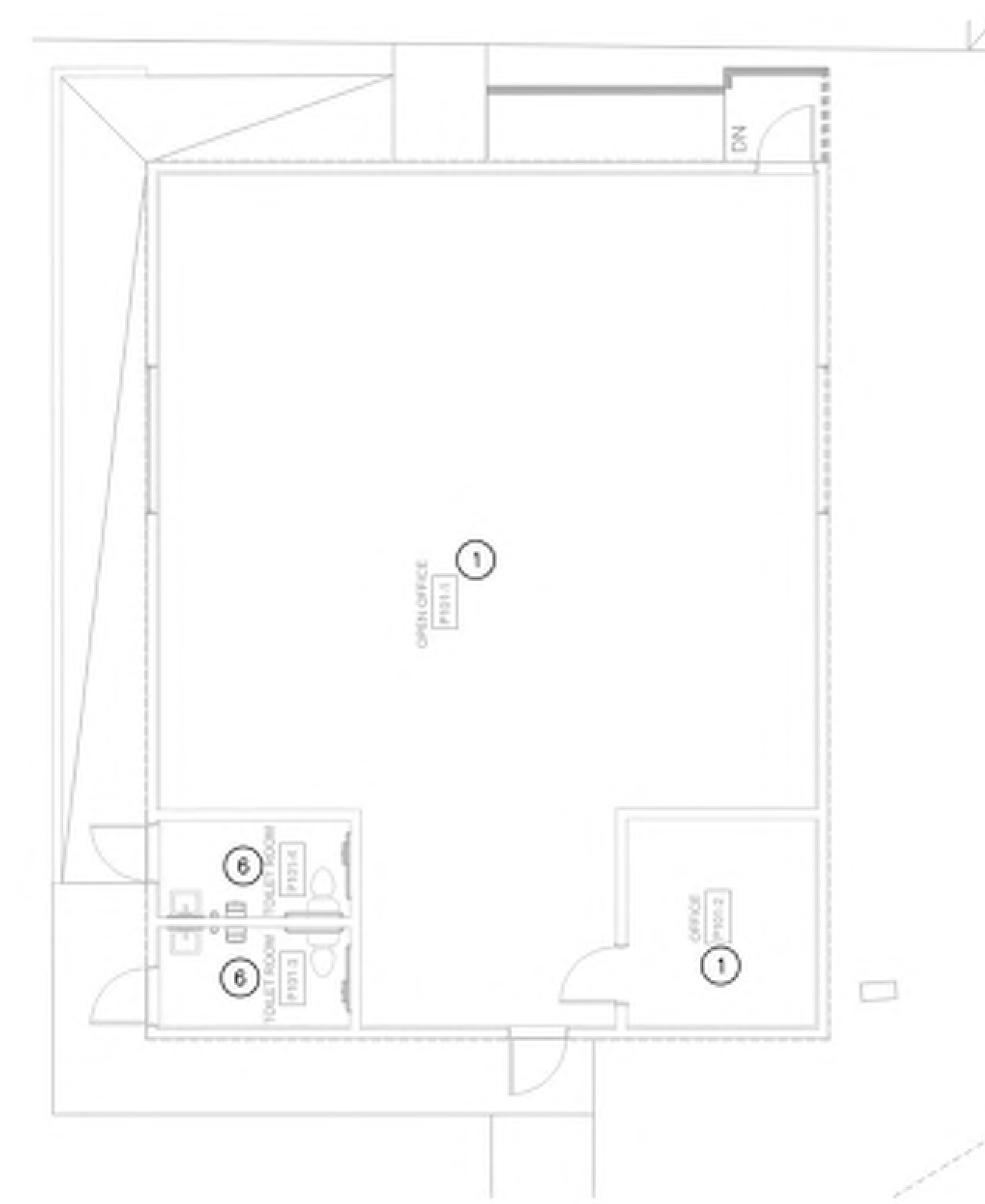
ELECTRICAL ROOF PLAN BUILDING C

E-231.3

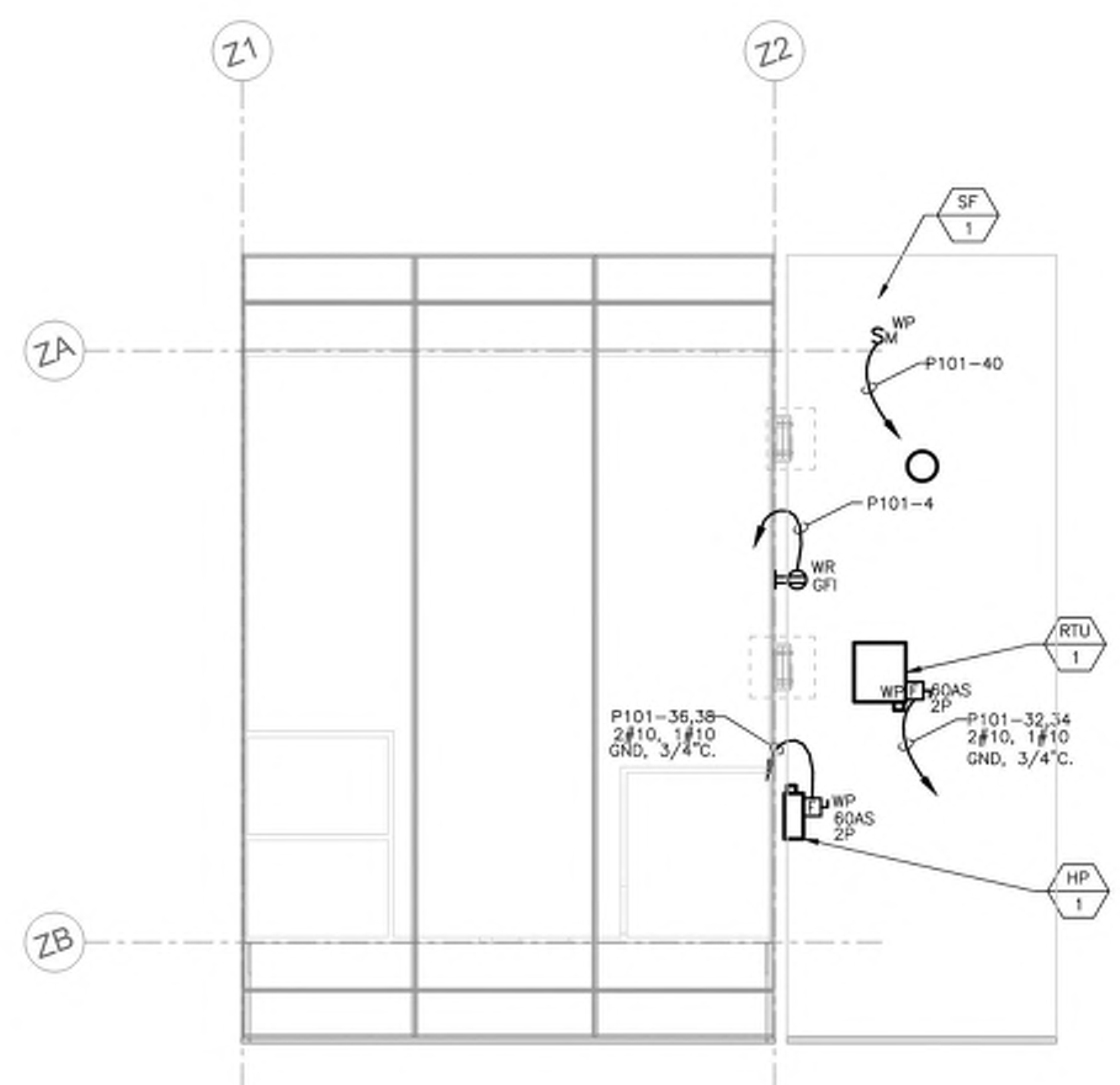
7/27/2021 9:46:11 AM



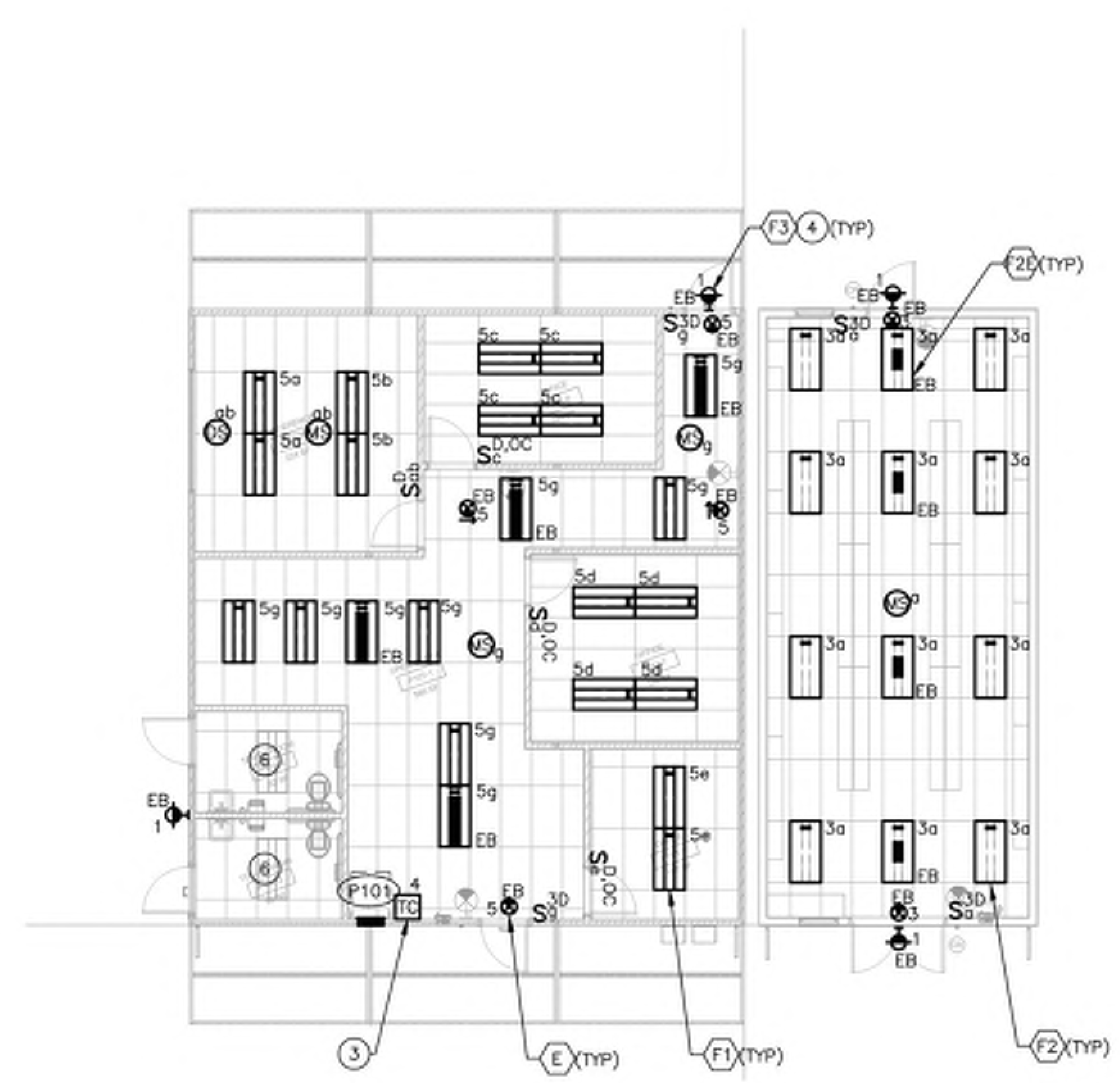
3 POWER FLOOR PLAN
1/8"=1'-0"



1 DEMOLITION FLOOR PLAN
1/8"=1'-0"



4 ROOF FLOOR PLAN
1/8"=1'-0"



2 LIGHTING FLOOR PLAN
1/8"=1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. CONTRACTOR SHALL VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL OUTLETS WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.

C. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND REQUIREMENTS PRIOR TO START OF WORK.

D. MECHANICAL EQUIPMENT FUSE SIZE RATINGS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

E. ALL MECHANICAL EQUIPMENT FUSIBLE DISCONNECTS AND MOTOR RATED SWITCHES EXPOSED TO WEATHER SHALL BE WEATHERPROOF RATED.

F. ALL LIGHTING TO BE CONNECTED TO PANEL 'P101', CIRCUIT NUMBER(S) AS SHOWN.

G. ALL FIXTURES PROVIDED WITH EGRESS LIGHTING BATTERY PACK BACK-UP SHALL BE FED FROM UNSWITCHED CIRCUIT SERVING LIGHTING IN SAME AREA PER NEC ARTICLE 700.12(F). EMERGENCY BATTERY PACK SHALL BE ACTIVATED ONLY UPON NORMAL POWER FAILURE.

KEY NOTES

(1) DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES (LIGHT FIXTURES, POWER OUTLETS, DATA OUTLETS) CONDUITS AND CONDUCTORS BACK TO ITS ORIGINAL SOURCE.

(2) PROVIDE 3/4"C. CONDUIT STUB UP TO CEILING SPACE ACCESS CONTROL.

(3) PROVIDE DIGITAL TITLE 24 COMPLIANT PROGRAMMABLE TIMECLOCK CONTROL WITH 4 RELAYS.

(4) ROUTE FIXTURE THRU TIME CLOCK.

(5) INDOOR UNIT FAN COIL FC-1 RECEIVES POWER FROM OUTDOOR UNIT HP-1. PROVIDE 2#12, 1#12 GND, 3/4"C. TO HP-1. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.

(6) EXISTING CEILING, POWER AND LIGHTING TO REMAIN.

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Mountain Empire Unified School Disctrict

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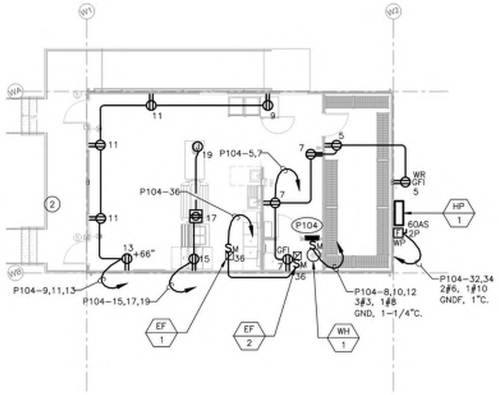
DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

ELECTRICAL FLOOR PLANS BUILDING P101 AND BOOKROOM

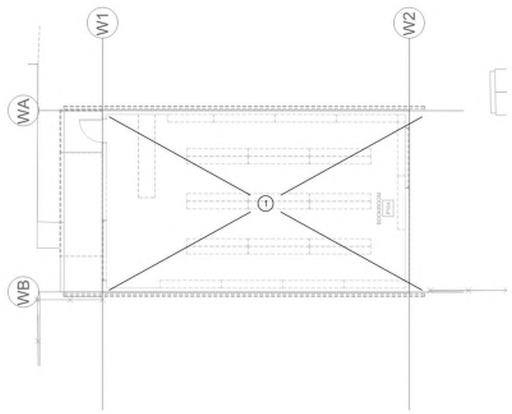
E-251

7/27/2021 9:46:11 AM



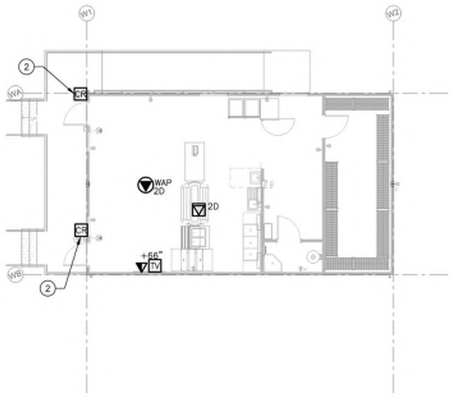
3 POWER FLOOR PLAN

1/8"=1'-0"



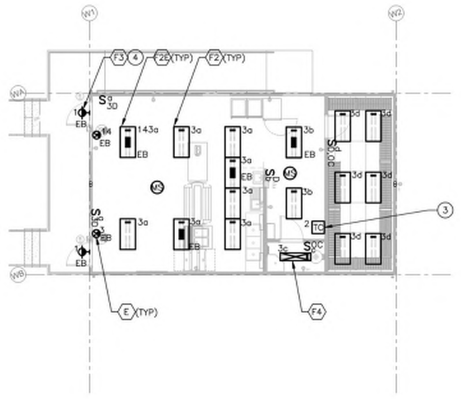
1 DEMOLITION FLOOR PLAN

1/8"=1'-0"



4 LOW VOLTAGE FLOOR PLAN

1/8"=1'-0"



2 LIGHTING FLOOR PLAN

1/8"=1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

B. CONTRACTOR SHALL VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL OUTLETS WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.

C. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND REQUIREMENTS PRIOR TO START OF WORK.

D. MECHANICAL EQUIPMENT FUSE SIZE RATINGS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

E. ALL MECHANICAL EQUIPMENT FUSIBLE DISCONNECTS AND MOTOR RATED SWITCHES EXPOSED TO WEATHER SHALL BE WEATHERPROOF RATED.

F. ALL LIGHTING TO BE CONNECTED TO PANEL 'P104', CIRCUIT NUMBER(S) AS SHOWN.

G. ALL FIXTURES PROVIDED WITH EGRESS LIGHTING BATTERY PACK BACK-UP SHALL BE FED FROM UNSWITCHED CIRCUIT SERVING LIGHTING IN SAME AREA PER NEC ARTICLE 700.12(F). EMERGENCY BATTERY PACK SHALL BE ACTIVATED ONLY UPON NORMAL POWER FAILURE.

KEY NOTES

1. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES (LIGHT FIXTURES, POWER OUTLETS, DATA OUTLETS) CONDUITS AND CONDUCTORS BACK TO ITS ORIGINAL SOURCE.
2. PROVIDE 3/4"C. CONDUIT STUB UP TO CEILING SPACE ACCESS CONTROL. COORDINATE WITH ACCESS CONTROL VENDOR PRIOR TO ROUGH-IN.
3. PROVIDE DIGITAL TITLE 24 COMPLIANT PROGRAMMABLE TIMECLOCK CONTROL WITH 4 RELAYS.
4. ROUTE FIXTURE THRU TIME CLOCK.

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SAN DIEGO, CA 92101
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Exp. 6/30/23
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Mountain Empire Unified
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DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

ELECTRICAL
FLOOR PLANS
BUILIDNG P104

E-271

7/27/2021 9:46:11 AM

GENERAL NOTES

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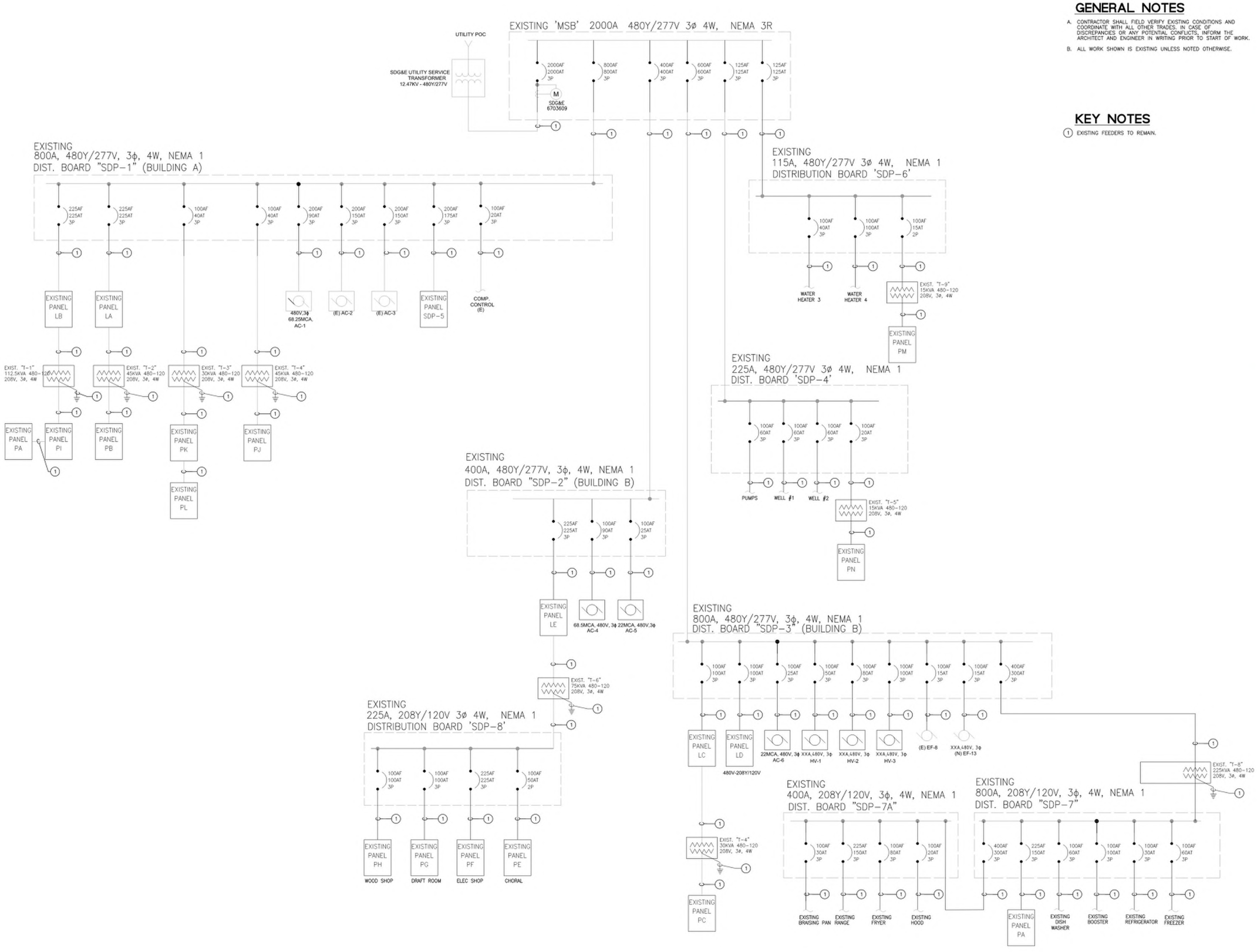
B. ALL WORK SHOWN IS EXISTING UNLESS NOTED OTHERWISE.

KEY NOTES

(1) EXISTING FEEDERS TO REMAIN.



1 SINGLE LINE DIAGRAM
NO SCALE

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DAVY PROJECT No:	2017
DRAWN BY:	SOBE
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SINGLE LINE DIAGRAM

E-401

7/27/2021 9:46:11 AM

GENERAL NOTES

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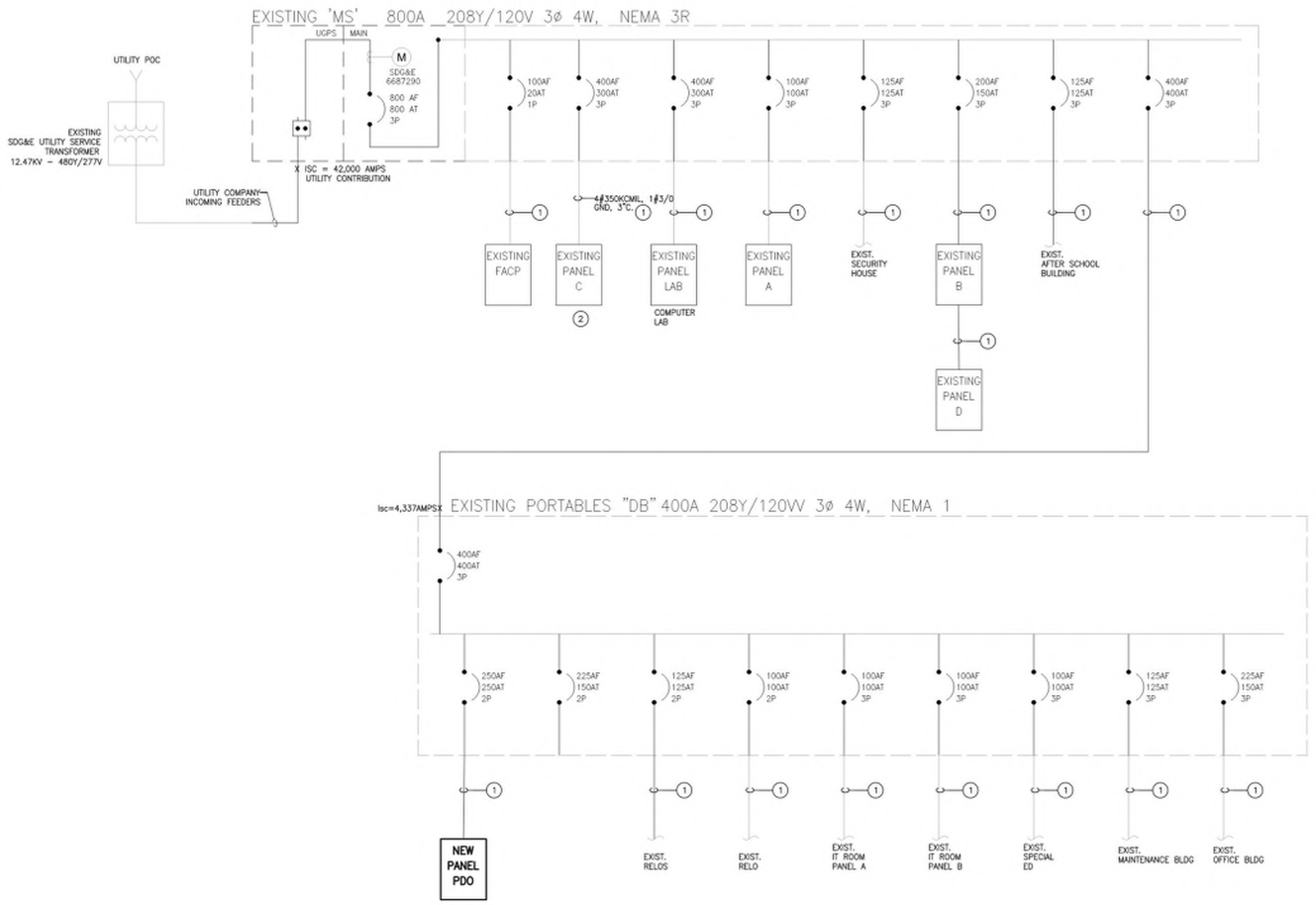
B. ALL WORK SHOWN LIGHT IS EXISTING, ALL WORK SHOWN DARK IS NEW UNLESS NOTED OTHERWISE.

KEY NOTES

(1) EXISTING FEEDERS TO REMAIN.

(2) EXISTING PANEL WITH REVISED LOAD.



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SINGLE LINE DIAGRAM

E-402

7/27/2021 9:46:11 AM

PANEL: P101 | LOCATION: SEE PLANS | MAIN: 150A/3P | BUS: 225A | NEMA 1
VOLTAGE: 208 / 120 | AIC RATING: 10000 | FEED: BOTTOM | MTG: SURFACE
PHASE: 3 | CIRCUIT CODE:
WIRE: 4 | blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN

NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
3	EXTERIOR LTS	L	20	1	1	180	A	500	2	1	20		TIME CLOCK	
	OFFICE LTS	L	20	1	3	910	B	180	4	1	20		EXTERIOR REC	
	STORAGE LTS	L	20	1	5	420	C		6	1	20		SPARE	
1a	REC - OFFICE		20	1	7	720	A	720	8	1	20		REC - OFFICE	1d
1a,2	REC - OFFICE		20	1	9	1440	B	1440	10	1	20		REC - OFFICE	1d,2
1a	REC - OFFICE		20	1	11	720	C	720	12	1	20		REC - OFFICE	1d
1b	REC - OPEN OFFICE		20	1	13	540	A	360	14	1	20		REC - STORAGE	
1b,2	REC - OPEN OFFICE		20	1	15	1080	B	360	16	1	20		REC - RESTROOMS	
1b	REC - OPEN OFFICE		20	1	17	540	C		18	1	20		SPARE	
1c	REC - OFFICE		20	1	19		A		20	1	20		SPARE	
1c,2	REC - OFFICE		20	1	21		B		22	1	20		SPARE	
1c	REC - OFFICE		20	1	23		C		24	1	20		SPARE	
	SPARE				25		A		26	1	20		SPARE	
	SPARE				27		B		28	1	20		SPARE	
	SPARE				29		C		30	1	20		SPARE	
	POWER LOADS ABOVE - SPLIT-BUS - MECHANICAL LOADS BELOW													
	EF-1, EF-2		20	1	31	174	A	2256	32	2	40	L	RTU-1	
	EF-3		20	1	33	100	B	2256	34				-	
	SPARE		20	1	35		C	1617	36	2	30		HP-1/FC-1	
	SPARE		20	1	37		A	1617	38				-	
	SPARE		20	1	39		B	696	40	1	20		SF-1	
	SPARE		20	1	41		C		42	1	20		SPARE	

CONNECTED VA Ø A	7067	CONNECTED VA ( )	15780	PANEL CONN. AMPS WITH LCL	56.87	PANEL DEMAND KVA WITH LCL	20.49
CONNECTED VA Ø B	8462	CONNECTED VA (L)	3766	CONNECTED VA WITH LCL (L)	4708	PANEL DEMAND AMPS WITH LCL	56.87
CONNECTED VA Ø C	4017	CONNECTED VA (R)	0	DEMAND VA (R)	0	PANEL CONNECTED AMPS	54.25
TOTAL VA	19546	CONNECTED VA (K)	0	DEMAND VA (K)	0	DEMAND HIGH Ø AMPS WITH LCL	72.36

1 PROVIDE LISTED HANDLE-TIE DEVICE — 6
2 CONTROLLED CIRCUIT THRU OCC. SENSOR — 7
3 CIRCUIT ROUTED THRU TIMECLOCK, CONTACTOR — 8
4 — 9
5 — 10

SPECIAL NOTES:

PANEL: C EXIST | LOCATION: SEE PLANS | MAIN: 300A/3P | BUS: 400A | NEMA 3R
VOLTAGE: 208 / 120 | AIC RATING: 14000 | FEED: BOTTOM | MTG: SURFACE
PHASE: 3 | CIRCUIT CODE:
WIRE: 4 | blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN

NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
2	AC-11		50	3	1	3189	A	2733	2	3	30		AC-1	2
	-				3	3189	B	2733	4				-	
	-				5	3189	C	2733	6				-	
2	AC-2		30	3	7	2733	A	540	8	1	20		ROOF RECEPTACLES	1
	-				9	2733	B	2733	10	3	30		AC-3	2
	-				11	2733	C	2733	12				-	
2	AC-4		30	3	13	2733	A	2733	14				-	
	-				15	2733	B	2733	16	3	30		AC-5	2
	-				17	2733	C	2733	18				-	
2	AC-6		30	3	19	2733	A	2733	20				-	
	-				21	2733	B	2733	22	3	30		AC-7	2
	-				23	2733	C	2733	24				-	
1	ROOF RECEPTACLES		20	1	25	540	A	2733	26				-	
2	AC-8		30	3	27	2733	B	2733	28	3	30		AC-9	2
	-				29	2733	C	2733	30				-	
	-				31	2733	A	2733	32				-	
2	AC-10		30	3	33	2733	B		34	1	20		SPARE	
	-				35	2733	C		36	1	20		SPARE	
	-				37	2733	A		38	1	20		SPARE	
1	DUCT DETECTORS		20	1	39	100	B		40	1	20		SPARE	
	SPARE		20	1	41		C		42	1	20		SPARE	

CONNECTED VA Ø A	31599	CONNECTED VA ( )	92737	PANEL CONN. AMPS WITH LCL	257.41	PANEL DEMAND KVA WITH LCL	92.74
CONNECTED VA Ø B	30619	CONNECTED VA (L)	0	CONNECTED VA WITH LCL (L)	0	PANEL DEMAND AMPS WITH LCL	257.41
CONNECTED VA Ø C	30519	CONNECTED VA (R)	0	DEMAND VA (R)	0	PANEL CONNECTED AMPS	257.41
TOTAL VA	92737	CONNECTED VA (K)	0	DEMAND VA (K)	0	DEMAND HIGH Ø AMPS WITH LCL	263.13

1 EXISTING CIRCUIT BREAKER WITH REVISED LOAD — 6
2 PROVIDE NEW CIRCUIT BREAKER TO REPLACE EXISTING — 7
OF SAME TYPE, STYLE AND AIC RATING AS EXISTING — 8
3 PROVIDE RED HANDLE CIRCUIT BREAKER FOR F/A — 9
4 — 10

SPECIAL NOTES:

PANEL: A EXIST | LOCATION: SEE PLANS | MAIN: 100A/3P | BUS: 125A | NEMA 1
VOLTAGE: 208 / 120 | AIC RATING: 10000 | FEED: BOTTOM | MTG: RECESSED
PHASE: 3 | CIRCUIT CODE:
WIRE: 4 | blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN

NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
3	REC		20	1	1	720	A	600	2	1	20		REC	1
3	REC		20	1	3	540	B	600	4	1	20		REC	1
1	REC		20	1	5	400	C	540	6	1	20		REC	3
3	REC		20	1	7	540	A	400	8	1	20		REC	1
1	REC		20	1	9	200	B	400	10	1	20		REC	1
1	REC		20	1	11	200	C	1500	12	1	20		EL. WTR. HTR	1
1	LTS		20	1	13	400	A	700	14	1	20		LTS	1
1	LTS		20	1	15	160	B	750	16	1	20		LTS	1
1	LTS		20	1	17	750	C	1500	18	1	20		LTS	1
1	LTS		20	1	19	1500	A	1500	20	1	20		LTS	1
1	LTS		20	1	21	1500	B	750	22	1	20		LTS	1
1	LTS		20	1	23	750	C	800	24	1	20		LTS, FAN	1
1	LTS, FAN		20	1	25	600	A	750	26	1	20		LTS	1
1	LTS		20	1	27	750	B	1500	28	1	20		LTS	1
3	DRINKING FOUNTAIN		20	1	29	180	C		30	1	20		SPARE	
3,4	EXTERIOR LIGHTS		20	1	31	400	A		32	1	20		SPARE	
	SPARE		20	1	33		B		34	1	20		SPARE	
	SPARE		20	1	35		C		36	1	20		SPARE	
	SPARE		20	1	37		A		38	1	20		SPARE	
	SPARE		20	1	39	100	B		40	1	20		SPARE	
	SPARE		20	1	41		C		42	1	20		SPARE	

CONNECTED VA Ø A	8110	CONNECTED VA ( )	21980	PANEL CONN. AMPS WITH LCL	61.01	PANEL DEMAND KVA WITH LCL	21.98
CONNECTED VA Ø B	7250	CONNECTED VA (L)	0	CONNECTED VA WITH LCL (L)	0	PANEL DEMAND AMPS WITH LCL	61.01
CONNECTED VA Ø C	6620	CONNECTED VA (R)	0	DEMAND VA (R)	0	PANEL CONNECTED AMPS	61.01
TOTAL VA	21980	CONNECTED VA (K)	0	DEMAND VA (K)	0	DEMAND HIGH Ø AMPS WITH LCL	67.53

1 EXISTING LOAD TO REMAIN — 6
2 PROVIDE NEW CIRCUIT BREAKER TO REPLACE EXISTING — 7
OF SAME TYPE, STYLE AND AIC RATING AS EXISTING — 8
3 EXISTING CIRCUIT BREAKER WITH REVISED LOAD — 9
4 CIRCUIT ROUTED THRU TIMECLOCK, CONTACTOR OR LCP — 10

SPECIAL NOTES:

PANEL: P104 | LOCATION: SEE PLANS | MAIN: 200A/3P | BUS: 225A | NEMA 1
VOLTAGE: 208 / 120 | AIC RATING: 10000 | FEED: BOTTOM | MTG: SURFACE
PHASE: 3 | CIRCUIT CODE:
WIRE: 4 | blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN

NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
2	EXTERIOR LTS	L	20	1	1	96	A	100	2	1	20		TC CLOCK	
	KITCHEN LTS	L	20	1	3	630	B		4	1	20		SPARE	
1b	REC - EXTERIOR/STORAGE		20	1	5	360	C		6	1	20		SPARE	
1b	REC - KITCHEN		20	1	7	540	A	6840	8	3	75	L	WHI-1	
1a	REC - FRIDGE		20	1	9	900	B	6840	10				-	
1a	REC - GENERAL		20	1	11	540	C	6840	12				-	
1a	REC - TV		20	1	13	180	A		14	1	20		SPARE	
1c	REC - POS		20	1	15		B		16	1	20		SPARE	
1c	REC - COOLER		20	1	17		C		18	1	20		SPARE	
1c	REC - COOLER		20	1	19		A		20	1	20		SPARE	
	SPARE				21		B		22	1	20		SPARE	
	SPARE				23		C		24	1	20		SPARE	
	SPARE				25		A		26	1	20		SPARE	
	SPARE				27		B		28	1	20		SPARE	
	SPARE				29		C		30	1	20		SPARE	
	SPARE				31		A	5512	32	2	60		HP-1	
	SPARE				33		B	5512	34				-	
	SPACE				35		C	214	36	1	20		EF-1, EF-2	
	SPACE				37		A		38				SPACE	
	SPACE				39		B		40				SPACE	
	SPACE				41		C		42				SPACE	

CONNECTED VA Ø A	13268	CONNECTED VA ( )	27538	PANEL CONN. AMPS WITH LCL	102.69	PANEL DEMAND KVA WITH LCL	37.00
CONNECTED VA Ø B	13882	CONNECTED VA (L)	7566	CONNECTED VA WITH LCL (L)	9458	PANEL DEMAND AMPS WITH LCL	102.69
CONNECTED VA Ø C	7954	CONNECTED VA (R)	0	DEMAND VA (R)	0	PANEL CONNECTED AMPS	97.44
TOTAL VA	35104	CONNECTED VA (K)	0	DEMAND VA (K)	0	DEMAND HIGH Ø AMPS WITH LCL	124.92

1 PROVIDE LISTED HANDLE-TIE DEVICE — 6
2 CIRCUIT ROUTED THRU TIMECLOCK, CONTACTOR — 7
3 — 8
4 — 9
5 — 10

SPECIAL NOTES:

PANEL: D EXIST | LOCATION: SEE PLANS | MAIN: 70A/3P | BUS: 125A | NEMA 1R
VOLTAGE: 208 / 120 | AIC RATING: 14000 | FEED: TOP | MTG: RECESSED
PHASE: 3 | CIRCUIT CODE:
WIRE: 4 | blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN

NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
3	REC		20	1	1	900	A	800	2	1	20		REC	1
3	REC		20	1	3	900	B	800	4	1	20		REC	1
1	REC		20	1	5	800	C	600	6	1	20		REC	1
1	REC		20	1	7	800	A	400	8	1	20		REC	1
1	REC		20	1	9	600	B	400	10	1	20		REC	1
1	REC		20	1	11	600	C	600	12	1	20		REC	1
1	TIME CLOCK		20	1	13	200	A	600	14	1	20		REC	1
1	ELECT HOT WATER		20	1	15	1500	B	600	16	1	20		REC	1
	SPARE		20	1	17		C		18	1	20		SPARE	
	SPARE		20	1	19		A		20	1	20		SPARE	
	SPARE		20	1	21		B		22				SPACE	
	SPACE				23		C		24				SPACE	

CONNECTED VA Ø A	3700	CONNECTED VA ( )	11100	PANEL CONN. AMPS WITH LCL	30.81	PANEL DEMAND KVA WITH LCL	11.10
CONNECTED VA Ø B	4800	CONNECTED VA (L)	0	CONNECTED VA WITH LCL (L)	0	PANEL DEMAND AMPS WITH LCL	30.81
CONNECTED VA Ø C	2600	CONNECTED VA (R)	0	DEMAND VA (R)	0	PANEL CONNECTED AMPS	30.81
TOTAL VA	11100	CONNECTED VA (K)	0	DEMAND VA (K)	0	DEMAND HIGH Ø AMPS WITH LCL	39.97

1 EXISTING LOAD TO REMAIN — 6
2 PROVIDE NEW CIRCUIT BREAKER TO REPLACE EXISTING — 7
OF SAME TYPE, STYLE AND AIC RATING AS EXISTING — 8
3 EXISTING CIRCUIT BREAKER WITH REVISED LOAD — 9
4 — 10

SPECIAL NOTES:

PANEL: B EXIST | LOCATION: SEE PLANS | MAIN: 150A/3P | BUS: 200A | NEMA 1
VOLTAGE: 208 / 120 | AIC RATING: 14000 | FEED: BOTTOM | MTG: RECESSED
PHASE: 3 | CIRCUIT CODE:
WIRE: 4 | blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN

NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
3,4	EXTERIOR LIGHTING		20	1	1	1152	A	540	2	1	20		EXIST. REC	1
3,4	EXTERIOR LIGHTING		20	1	3	500	B	540	4	1	20		EXIST. REC	1
1	EXIST. REC		20	1	5	500	C	540	6	1	20		EXIST. REC	1
1	EXIST. REC		20	1	7	1000	A	720	8	1	20		EXIST. REC/TV	3
3	EXIST. REC/TV		20	1	9	900	B	900	10	1	20		EXIST. REC/TV	3
3	EXIST. REC/TV		20	1	11	900	C	400	12	1	20		EXIST. REC	1
1	EXIST. REC TV		20	1	13	200	A	200	14	1	20		EXIST. REC/TEL	1
1	REC/MASTER CLOCK		20	1	15	200	B	200	16	1	20		EXIST. REC/TV	1
1	EXIST. REC/TV		20	1	17	200	C	160	18	1	20		EXIST. LTS	1
1	EXIST. REC/TV		20	1	19	1300	A	540	20	1	20		EXIST. FANS	1
3,4	LTS - EXTERIOR		20	1	21	470	B	900	22	1	20		EXIST. LTS	1
1	EXIST. LTS		20	1	23	1100	C	900	24	1	20		EXIST. LTS	1
1	EXIST. LTS		20	1	25	750	A	750	26	1	20		EXIST. LTS	1
1	EXIST. LTS		20	1	27	1500	B	1500	28	1	20		EXIST. LTS	1
1	EXIST. LTS		20	1	29	1500	C	1500	30	1	20		EXIST. LTS	1
1	EXIST. LTS		20	1	31	750	A	750	32	1	20		EXIST. LTS	1
1	EXIST. LTS		20	1	33	560	B		34	1	20		SPARE	1
1	EXIST. LTS		20	1	35	750	C	3700	36	3	70		PANEL D	3
1	AIR COMPRESSOR		20	3	37	500	A	4800	38				-	
	-		20	1	39	500	B	2600	40				-	
	-		20	1	41	500	C		42	1	20		SPARE	

CONNECTED VA Ø A	13952	CONNECTED VA ( )	37872	PANEL CONN. AMPS WITH LCL	105.12	PANEL DEMAND KVA WITH LCL	37.87
CONNECTED VA Ø B	11270	CONNECTED VA (L)	0	CONNECTED VA WITH LCL (L)	0	PANEL DEMAND AMPS WITH LCL	105.12
CONNECTED VA Ø C	12650	CONNECTED VA (R)	0	DEMAND VA (R)	0	PANEL CONNECTED AMPS	105.12
TOTAL VA	37872	CONNECTED VA (K)	0	DEMAND VA (K)	0	DEMAND HIGH Ø AMPS WITH LCL	116.18

1 EXISTING LOAD TO REMAIN — 6
2 PROVIDE NEW CIRCUIT BREAKER TO REPLACE EXISTING — 7
OF SAME TYPE, STYLE AND AIC RATING AS EXISTING — 8
3 EXISTING CIRCUIT BREAKER WITH REVISED LOAD — 9
4 CIRCUIT ROUTED THRU TIMECLOCK, CONTACTOR OR LCP — 10

SPECIAL NOTES:

P101	C	A
P104	D	B
–	–	–

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
www.davyarchitecture.com

SDVOSB

REGISTERED PROFESSIONAL ENGINEER — EDUARDO A. [illegible] — E18809 — Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

SALASOBRIEN
3220 EXECUTIVE RIDGE
SUITE 210
VISTA, CA 92081
TEL: (760) 560-0100
#21089
09-23-22
www.salasobrien.com
E-Mail admin@tsqeng.com

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

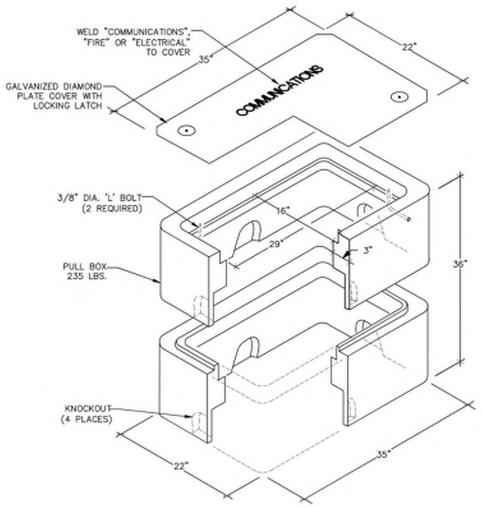
MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: SOBE
CHECKED BY: SOBE

PANEL SCHEDULES

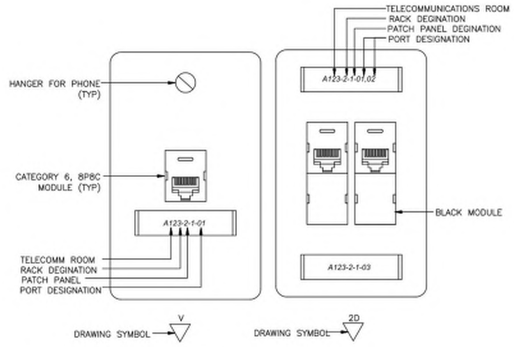
E-403

7/27/2021 9:46:11 AM



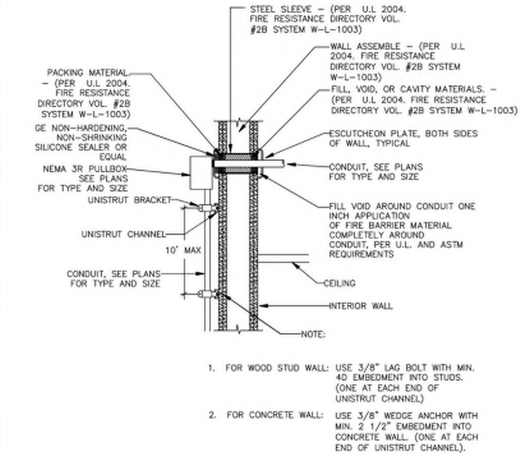
UNDERGROUND HANDHOLE

SCALE: NONE | 10



TELECOMM WALL FACEPLATES

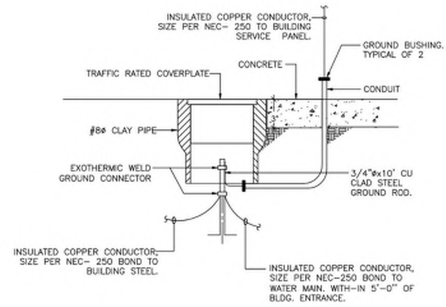
SCALE: NONE | 7



1. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 4D EMBEDMENT INTO STUDS. (ONE AT EACH END OF UNISTRUT CHANNEL)
2. FOR CONCRETE WALL: USE 3/8" WEDGE ANCHOR WITH MIN. 2 1/2" EMBEDMENT INTO CONCRETE WALL. (ONE AT EACH END OF UNISTRUT CHANNEL).

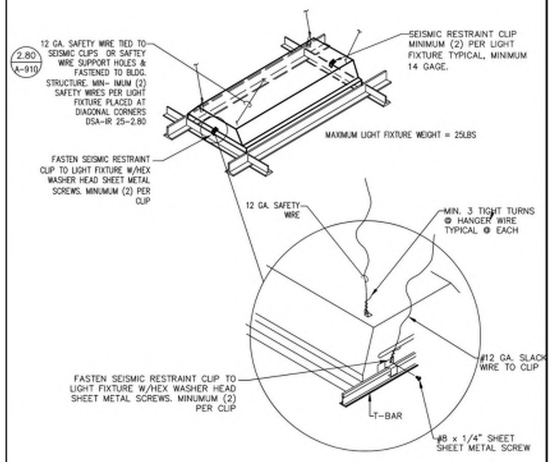
PULLBOX EXT. WALL PENETRATION

SCALE: NONE | 4



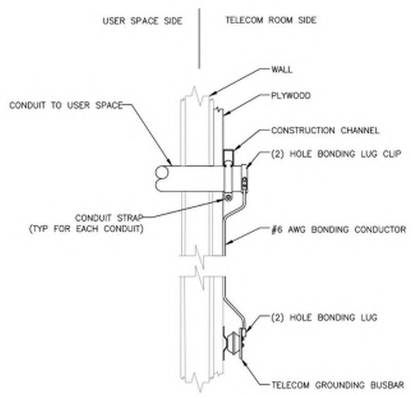
GROUNDING DETAIL

SCALE: NONE | 1



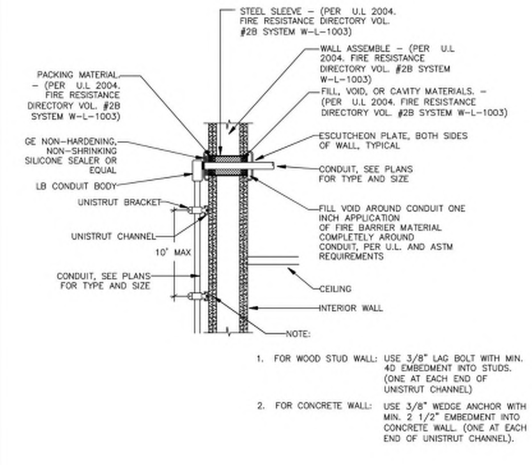
T–GRID FIXTURE SEISMIC SUPPORTS

SCALE: NONE | 11



CONDUIT GROUNDING DETAIL

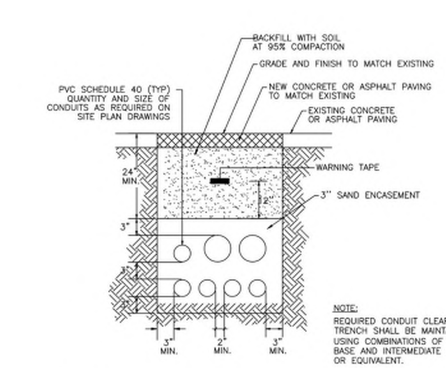
SCALE: NONE | 8



1. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 4D EMBEDMENT INTO STUDS. (ONE AT EACH END OF UNISTRUT CHANNEL)
2. FOR CONCRETE WALL: USE 3/8" WEDGE ANCHOR WITH MIN. 2 1/2" EMBEDMENT INTO CONCRETE WALL. (ONE AT EACH END OF UNISTRUT CHANNEL).

CONDUIT EXT. WALL PENETRATION

SCALE: NONE | 5

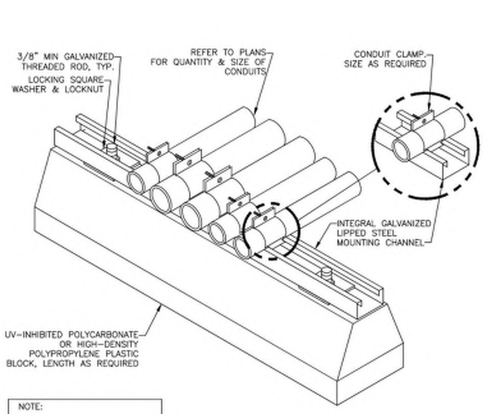


NOTE: REQUIRED CONDUIT CLEARANCES IN TRENCH SHALL BE MAINTAINED USING COMBINATIONS OF "CARLON" BASE AND INTERMEDIATE SPACERS OR EQUIVALENT.

NOTE: 1. CONTRACTOR SHALL MAINTAIN A 12" SEPARATION BETWEEN POWER AND SIGNAL CONDUITS.

UNDERGROUND TRENCHING DETAIL

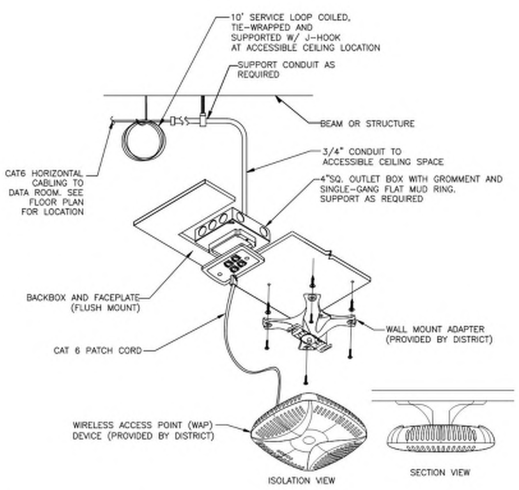
SCALE: NONE | 2



NOTE:
PROVIDE CONDUIT SUPPORT EVERY 10' FOR CONDUIT SIZE 1/2" – 3/4" CONDUIT PER NFPA 70, NATIONAL ELECTRICAL CODE, TABLE 334.30(B)(2)

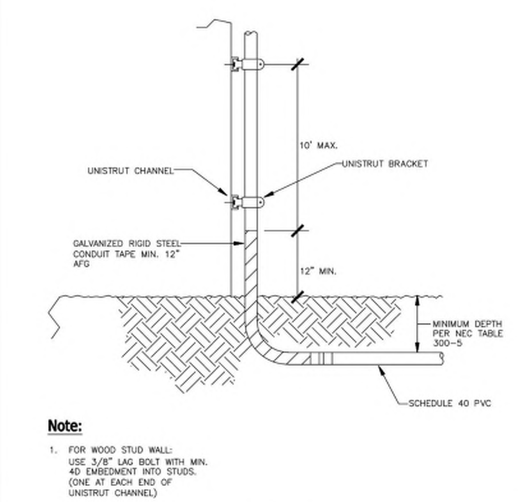
ROOF CONDUIT SUPPORT DETAIL

SCALE: NONE | 12



CEILING MOUNT (WAP) DETAIL

SCALE: NONE | 9

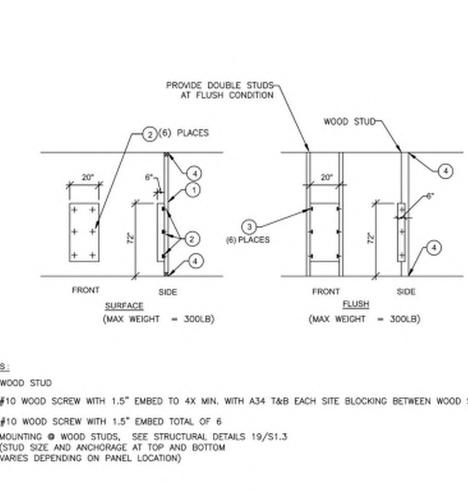


Note:

1. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 4D EMBEDMENT INTO STUDS. (ONE AT EACH END OF UNISTRUT CHANNEL)

TYP. UNDERGROUND CONDUIT RISER

SCALE: NONE | 6



NOTES:
1. WOOD STUD
2. #10 WOOD SCREW WITH 1.5" EMBED TO 4X MIN. WITH A34 T&B EACH SITE BLOCKING BETWEEN WOOD STUDS
3. #10 WOOD SCREW WITH 1.5" EMBED TOTAL OF 6
4. MOUNTING ⊘ WOOD STUDS, SEE STRUCTURAL DETAILS 19/S1.3 (STUD SIZE AND ANCHORAGE AT TOP AND BOTTOM VARIES DEPENDING ON PANEL LOCATION)

SURFACE MOUNT PANEL

SCALE: NONE | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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SDVOSB

REGISTERED PROFESSIONAL ENGINEER
EDWARD A. DAVY
No. E18808
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

SALASOBRIEN
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E-Mail: admin@salaprg.com

Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No:	2017
DRAWN BY:	SOBE
CHECKED BY:	SOBE

ELECTRICAL DETAILS

E-501

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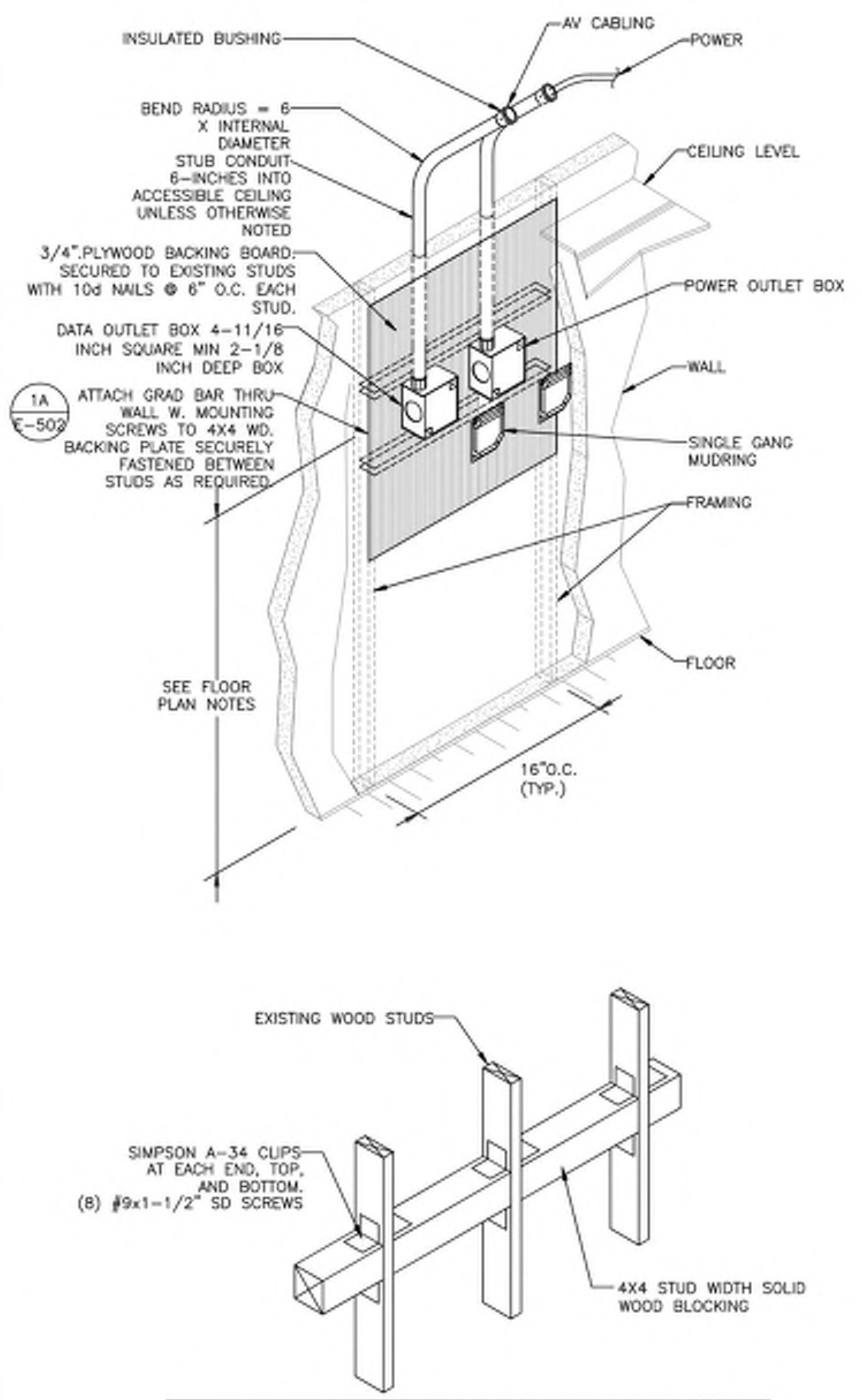
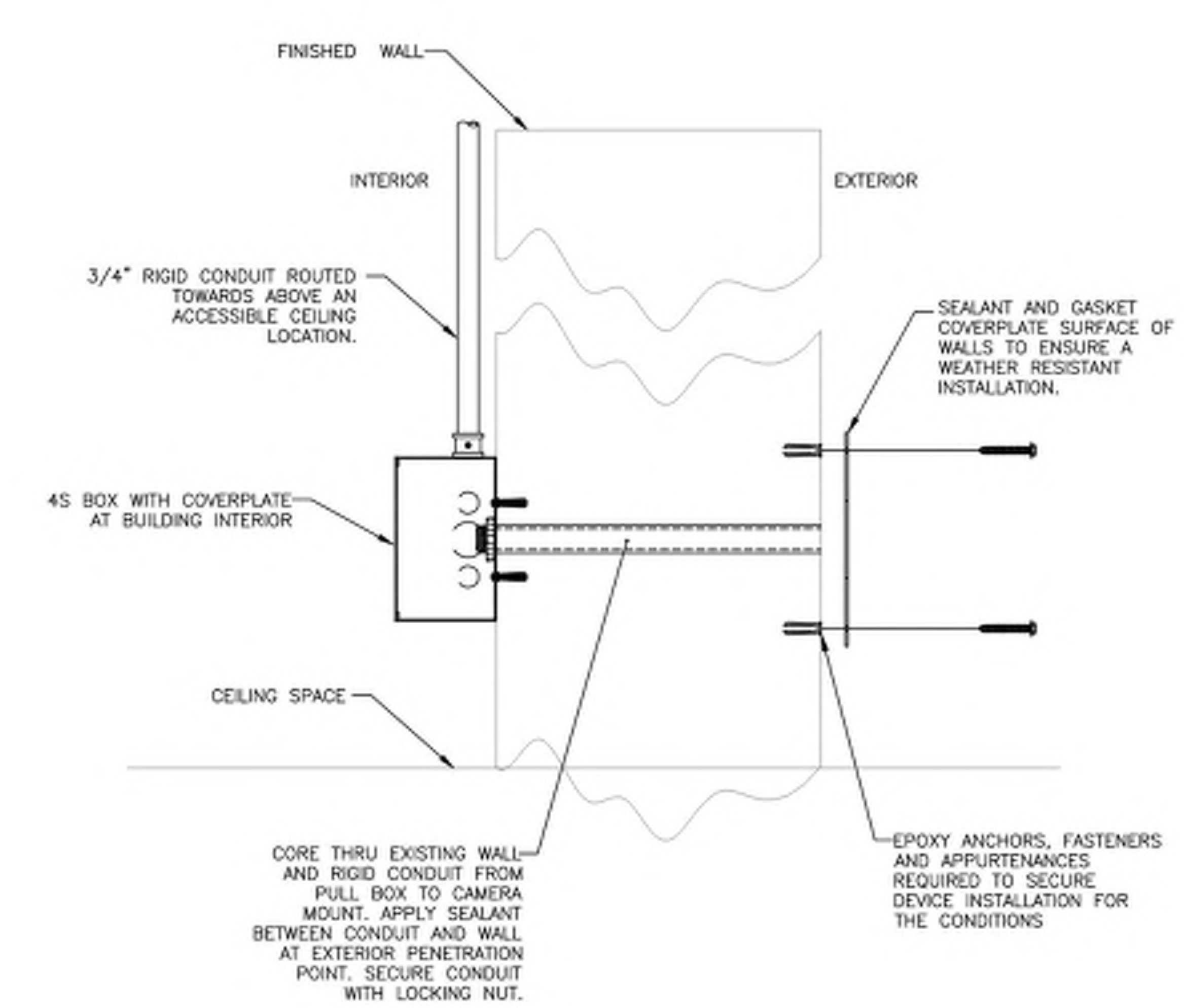
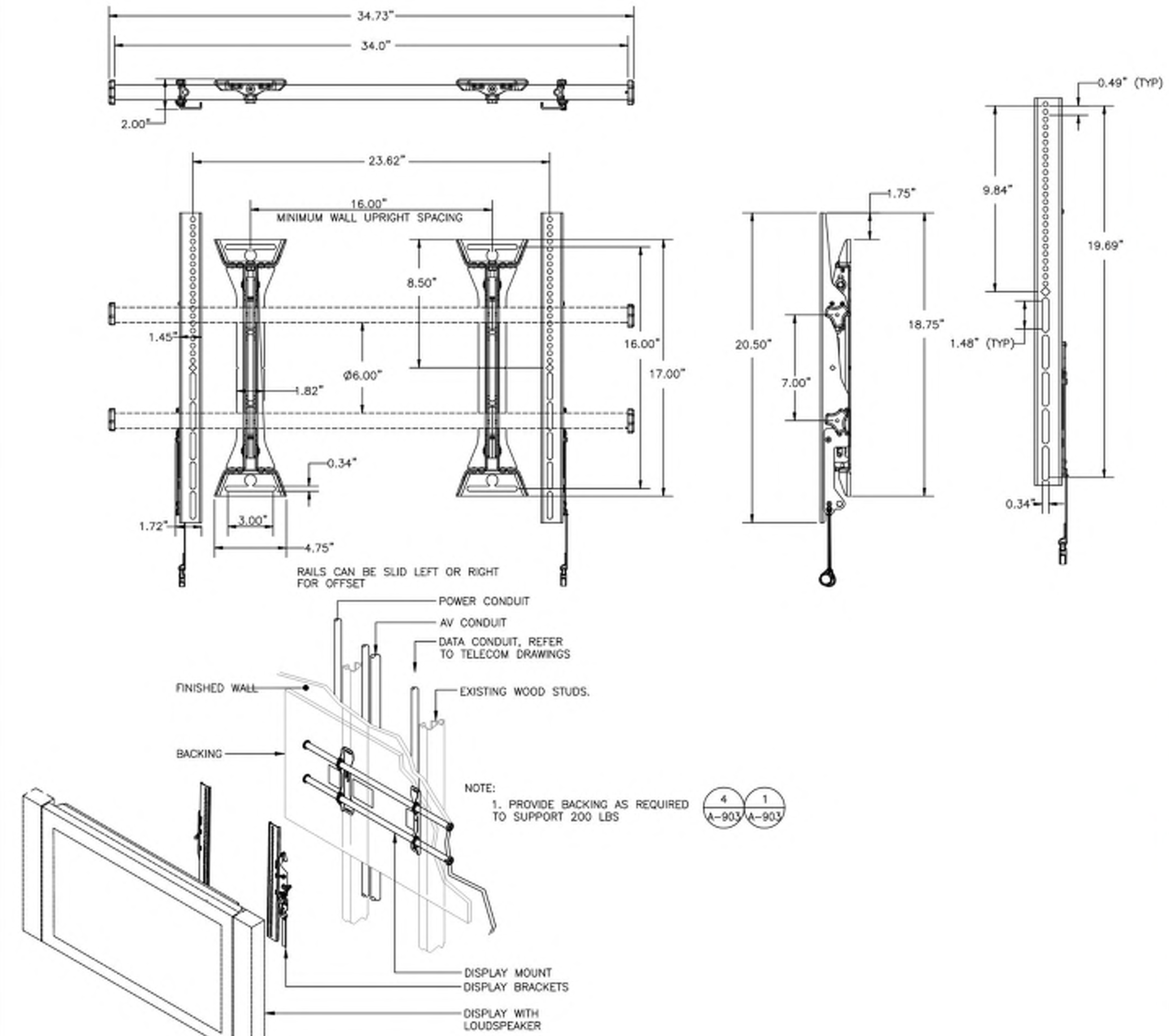


TYPICAL WOOD BLOCKING 1A NTS

WALL MOUNTED LCD TV DISPLAY — SCALE NONE — 5

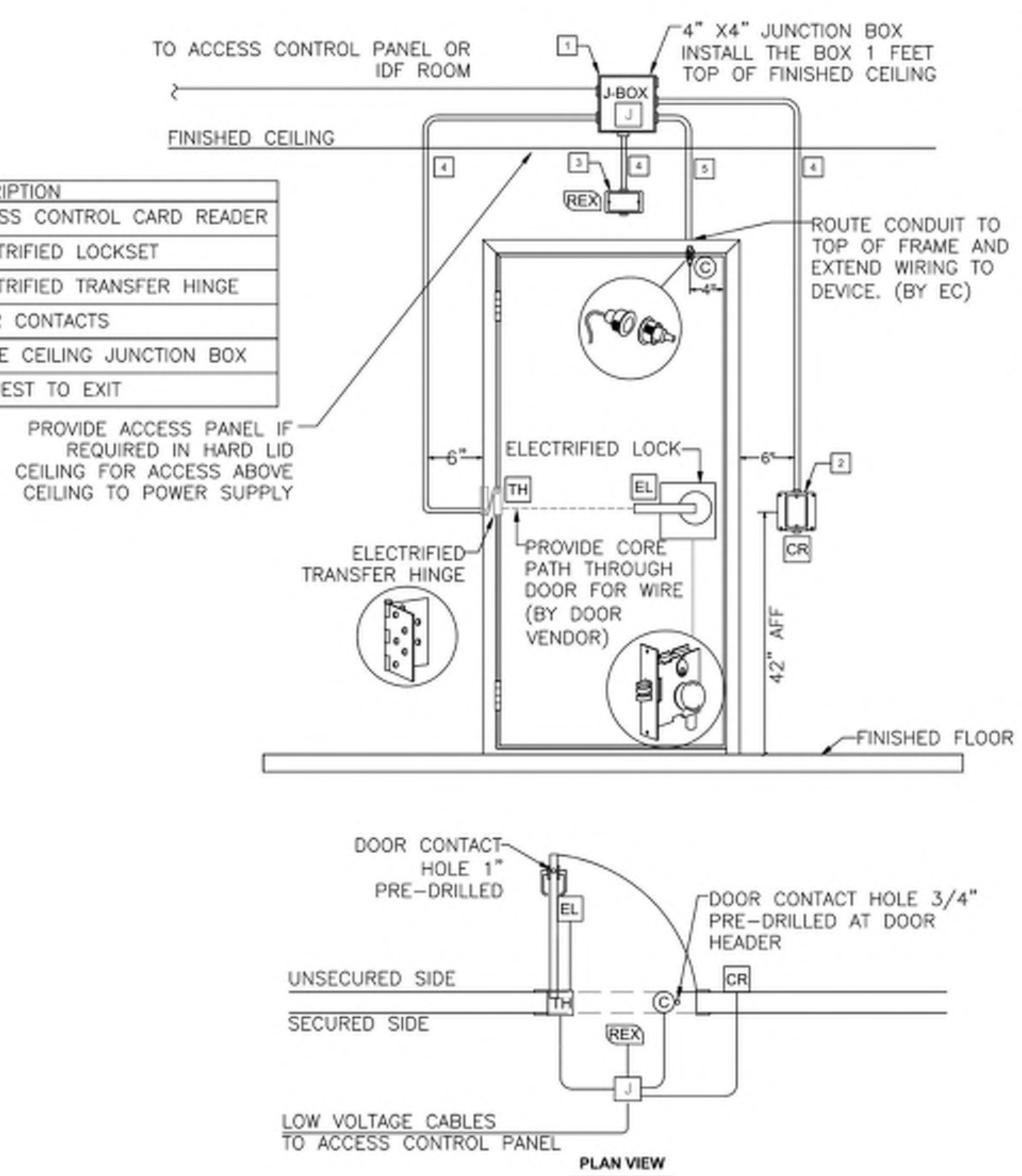


TYPICAL CONDUIT PENETRATION FUTURE CAMERA DETAIL — SCALE NONE — 3



TYPICAL DISPLAY WALL MOUNTING DETAIL — SCALE NONE — 1

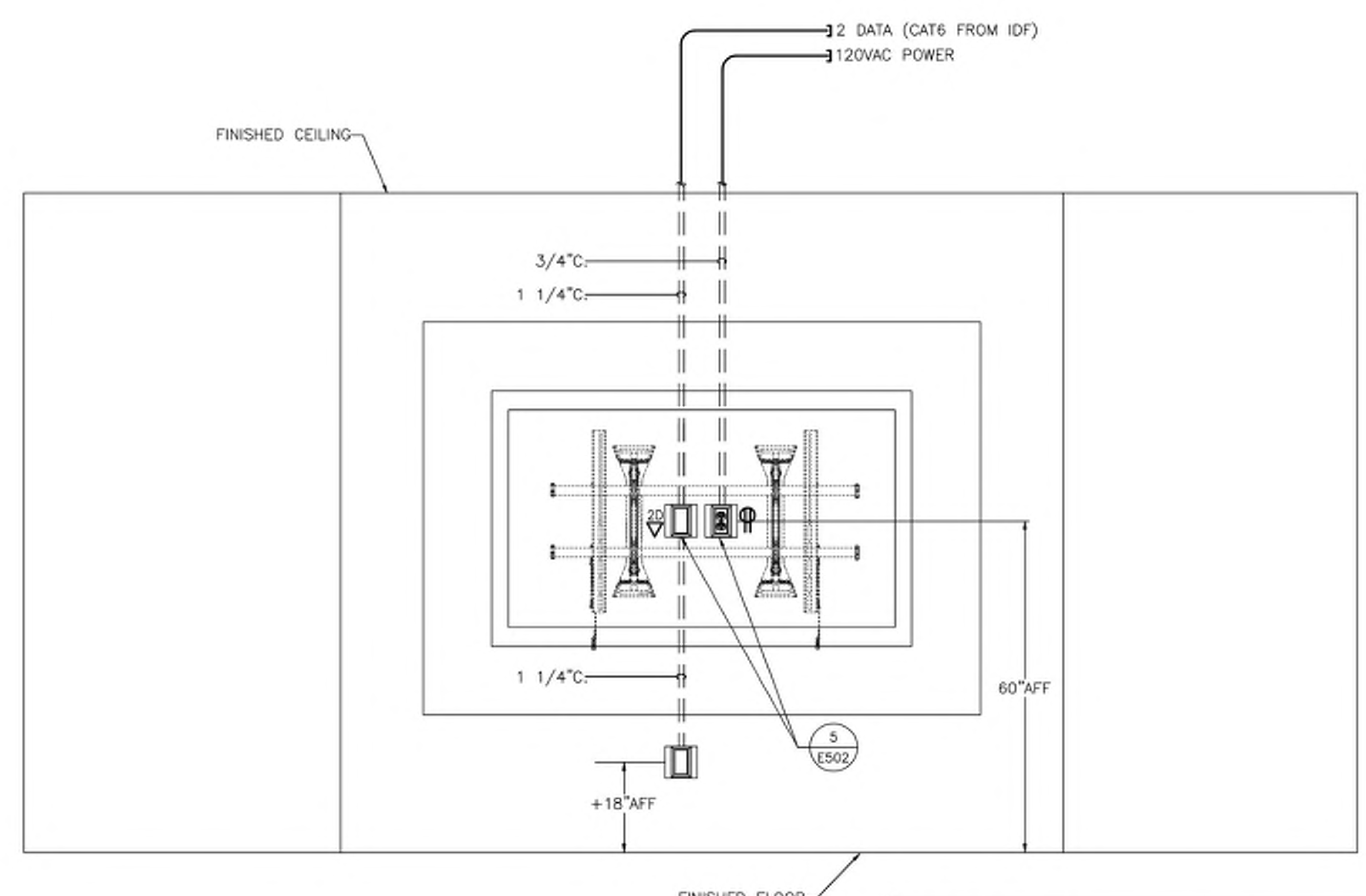
SYMBOL	DESCRIPTION
CR	ACCESS CONTROL CARD READER
EL	ELECTRIFIED LOCKSET
TH	ELECTRIFIED TRANSFER HINGE
C	DOOR CONTACTS
J	ABOVE CEILING JUNCTION BOX
REX	REQUEST TO EXIT



NOTES:

1. PROVIDE 4"X4" JUNCTION BOX (UNSECURED SIDE OF THE DOOR).
2. PROVIDE SINGLE GANG VERTICAL JUNCTION BOX ON UNSECURED SIDE OF THE DOOR.
3. PROVIDE SINGLE GANG VERTICAL JUNCTION BOX ON SECURED SIDE OF THE DOOR.
4. PROVIDE 3/4" CONDUIT FROM SINGLE GANG J-BOX UP TO 4"X4" J-BOX.
5. PROVIDE 3/4" CONDUIT FROM THE TOP OF FRAME UP TO 4"X4" J-BOX.

TYPICAL ACCESS CONTROL DOOR ROUGH-IN DETAIL — SCALE NONE — 4



REFERENCE ITEMS

TV	USB/CAT6 FACEPLATE	DATA & USB OUTLET BOX 4-11/16 INCH SQUARE MIN 2-1/8 INCH DEEP BOX
▽	DATA DROPS	
⏀	RECEPTACLE	4 SQUARE BACK BOX POWER

TYPICAL FIXED LCD DISPLAY ELEVATION DETAIL — SCALE NONE — 2

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN • EMPLOYEE OWNED
1053 TENTH AVENUE
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SALASOBRIEN
3220 EXECUTIVE RIDGE SUITE 210
VISTA, CA 92081
#21089
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Mountain Empire Unified School Disctrict

Project No.2017

Mountain Empire Junior High School Site Modernization

3305 Buckman Springs Rd, Pine Valley, CA 91962

MARK	DATE	DESCRIPTION
	04.29.2022	DSA SUBMITTAL
	09.19.2022	DSA RESUBMITTAL

DAVY PROJECT No: 2017
DRAWN BY: SOBE
CHECKED BY: SOBE

ELECTRICAL DETAILS

E-502

7/27/2021 9:46:11 AM

APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF JAN. 1, 2017*:
- 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.*
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R
- 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS:
- NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) , 2016 EDITION
- NFPA 17, STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS , 2017 EDITION
- NFPA 17A, STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS , 2017 EDITION
- NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2016 EDITION
- NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE, 2016 EDITION
- NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVE, 2016 EDITION
- NFPA 2001, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
- UL 300, STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT, 2005 (R2010)
- UL 464, AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS INCLUDING ACCESSORIES, 2003 EDITION
- UL 521,STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTION SIGNALING SYSTEMS, 1999 EDITION
- UL 1971, STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED, 2002 EDITION (R2010)
- ICC 300, STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2020 EXCEPT THE EFFECTIVE DATE FOR THE US OF THE 2019 BUILDING EFFICIENCY STANDARD (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2019 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER4) IS JANUARY 8, 2019.

SCOPE OF WORK

- REPLACE EXISTING GAMEWELL FCI PANEL IN BUILDING WITH A NEW INTELLIGENT REPORTING, NETWORKED, FULLY PEER-TO-PEER, MICROPROCESSOR-CONTROLLED FIRE DETECTION AND EMERGENCY VOICE ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH THE APPLICABLE CRITERIA, SPECIFICATIONS, AND AS INDICATED ON THE DRAWINGS.
- REMOVE EXISTING GAMEWELL FCI FIRE ALARM CONTROL PANEL IN BUILDING C.
- NEW FACP MUST BE COMPATIBLE WITH EXISTING SYSTEM DEVICES AND MUST BE EXPANDABLE AND INCLUDE ADDRESSABLE DEVICES, NOTIFICATION APPLIANCES, CONTROLS AND SUPERVISORY DEVICES.
- PROVIDE A NEW ADDRESSABLE FIRE DETECTION AND NOTIFICATION ALARM SYSTEM IN BUILDING C AND P104 CONTROLLED BY FACP IN BUILDING A. EXTEND A NEW FIRE ALARM SYSTEM TO NEW BOOKROOM ADDITION BETWEEN PORTABLES P101 AND P102.
- WORK SHALL INCLUDE FURNISHING OF LABOR, EQUIPMENT AND MATERIALS FOR INSTALLATION OF THE FIRE ALARM AND VOICE EVACUATION SYSTEM AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. THE SYSTEM SHALL CONSIST OF ALL NECESSARY HARDWARE, EQUIPMENT AND SOFTWARE PROGRAMMING TO PERFORM FIRE-ALARM AND DETECTION OPERATIONS, AND ONE-WAY SUPERVISED AUTOMATIC VOICE ALARM OPERATIONS. THE SYSTEM SHALL BE DIGITAL ADDRESSABLE TYPE.
- WHERE SPECIFIC SYSTEM COMPONENTS ARE NOT SHOWN ON THE DRAWINGS, IT SHALL BE THE REASONABILITY OF THE INSTALLING CONTRACTOR TO PROVIDE A COMPLETE SYSTEM IN ACCORDANCE WITH THE APPLICABLE CRITERIA.

PLANS AND CALCULATIONS

1. DEVIATIONS FROM APPROVED PLANS, INCLUDING PRODUCT SUBSTITUTIONS ARE SUBJECT TO REVIEW AND SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION (DSA).
2. ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGNER OF RECORD AND MODIFICATIONS SUBMITTED TO DSA FOR REVIEW AND APPROVAL.

INSTALLATION

1. AN EXPERIENCED FIRE DETECTION AND ALARM SYSTEMS CONTRACTOR LICENSED BY THE STATE OF CALIFORNIA, POSSESSING A C-10 LICENSE FOR THE APPLICABLE SYSTEMS SHALL INSTALL FIRE PROTECTION DETECTION AND ALARM SYSTEMS.
2. INSTALLING CONTRACTOR SHALL HAVE A MINIMUM OF 20 YEARS EXPERIENCE INSTALLING GAMEWELL FCI FIRE ALARM SYSTEMS IN SAN DIEGO COUNTY. INSTALLING CONTRACTOR SHALL NOT OUTSOURCE ANY EQUIPMENT OR LABOR.
3. INSTALLING CONTRACTOR SHALL HAVE AN OFFICE WITHIN SAN DIEGO COUNTY. THAT OFFICE SHALL INCLUDE A 24/7 SERVICE DEPARTMENT, AND MUST MAINTAIN SPARE INVENTORY FOR ALL EQUIPMENT USED ON THIS PROJECT.
4. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
5. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
6. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
7. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
8. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.

GENERAL FIRE ALARM NOTES

1. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION. REFER TO FLOOR PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES AND DETAILS.
2. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
3. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM.
4. AUDIBLE DEVICES TO BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT THE MINIMUM HEARING DISTANCE . SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECONDS 5 dBA MUST BE MAINTAINED.
5. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
6. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
7. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES LOCATED WITHIN THE SAME ROOM SHALL BE SYNCHRONIZED.
8. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
9. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
10. ALL FIRE ALARM WIRING SHALL BE MODIFIED CLASS B IN ACCORDANCE WITH GUIDE SPECIFICATION SECTION 28 46 21.11.
11. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6 FT OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
12. PER NFPA 72 SECTION 17.5.3.1.2, DETECTORS SHALL NOT BE REQUIRED IN COMBUSTIBLE BLIND SPACES IF ANY OF THE FOLLOWING CONDITIONS EXIST:

    WHERE THE CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE SUPPORTING BEAMS OF A COMBUSTIBLE ROOF OR FLOOR DECK.

    WHERE THE CONCEALED SPACE IS ENTIRELY FILLED WITH A NONCOMBUSTIBLE INSULATION, I.E. IN SOLID JOIST CONSTRUCTION, THE INSULATION SHALL BE REQUIRED TO FILL ONLY THE SPACE FROM THE CEILING TO THE BOTTOM EDGE OF THE JOIST OF THE ROOF OR FLOOR DECK.

    HERE THERE ARE SMALL CONCEALED SPACES OVER ROOMS, PROVIDED THAT ANY SPACE IN QUESTION DOES NOT EXCEED 50 SQ-FT IN AREA.

    IN SPACES FORMED BY SETS OF FACING STUDS OR SOLID JOISTS IN WALLS, FLOORS, OR CEILINGS, WHERE THE DISTANCE BETWEEN THE FACING STUDS OR SOLID JOISTS IS LESS THAN 6 IN.
13. SMOKE DETECTORS SHALL BE PROVIDED THROUGHOUT, UNLESS SPECIFIC ENVIRONMENTAL CONDITIONS, I.E. AREAS WHERE DUST AND ELEVATED TEMPERATURES ARE ANTICIPATED, HEAT DETECTORS SHALL BE PERMITTED.
14. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FT FROM FIRE SPRINKLERS OR 3 FT FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
15. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
16. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
17. WHERE AVAILABLE, EXISTING DEDICATED BRANCH CIRCUIT SHALL BE UTILIZED FOR FIRE ALARM EQUIPMENT. FOR NEW FIRE ALARM EQUIPMENT, ENSURE DEDICATED BRANCH CIRCUITS ARE ENERGIZED FROM THE COMMON USE AREA PANEL ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND HAVE NO OTHER OUTLETS.

    · ENSURE THE CIRCUIT BREAKERS ARE PROVIDED WITH A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION.

    · ENSURE THE CIRCUIT BREAKERS ARE LABELED "FIRE ALARM CIRCUIT CONTROL".

    · ENSURE THE CIRCUIT BREAKER ID AND LOCATION IS LABELED AT FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLY PANELS.
18. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
19. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48 IN.
20. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
21. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
22. ALL NEW WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN METALLIC CONDUIT (3/4 INCH MINIMUM). PROVIDE EMT, IMT, RIGID METALLIC CONDUIT IN DRY AREAS. PROVIDE RIGID METALLIC CONDUIT IN WET LOCATIONS.
23. WHERE EXISTING DEVICES ARE DEMOLISHED, PATCH HOLES AND PAINT TO MATCH EXISTING FINISH.
24. LOCATE SMOKE DETECTORS IN ACCORDANCE WITH THE SPACING REQUIREMENTS DESCRIBED IN NFPA 72 SECTION 17.7.3.2.

FIRE ALARM DRAWING INDEX

DEVICE LEGEND

SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION	CSFM	SIZE	TRIM
FACP	1	GAMEWELL FCI	E3 SERIES CLASSIC	EMERGENCY VOICE EVACUATION SYSTEM	7165-1703:0125		
	1	GAMEWELL FCI	E3BB-RC/INCC	COMMAND CENTER ENCLOSURE, RED	7165-1703:0125		
	1	GAMEWELL FCI	E3-BP	INNER DOOR PANEL BLANK PLATE, DOUBLE SIZE (INCC-TEL SLOT)	7165-1703:0125		
	1	GAMEWELL FCI	ILI-MB-E3	INTELLIGENT LOOP INTERFACE-MAIN BOARD	7165-1703:0125		
	1	GAMEWELL FCI	1100-0450	INNER DOOR PANEL BLANK PLATE, SINGLE SIZE	7165-1703:0125		
	1	GAMEWELL FCI	INI-VGX	TRANSPONDER VOICE GATEWAY (UTP ONLY)	7165-1703:0125		
	1	GAMEWELL FCI	E3/D2-D	"D" SIZE CABINET, INNER DOOR	7165-1703:0125		
	1	GAMEWELL FCI	LCD-SLP MAIN BOARD	LCD TOUCHSCREEN ANNUNCIATOR DISPLAY, MAIN BOARD	7165-1703:0125		
	1	GAMEWELL FCI	E3-INX-CPLATE	TRANSPONDER MOUNTING PLATE, C SIZE	7165-1703:0125		
	1	GAMEWELL FCI	ASM-16	ADDRESSABLE SWITCH MODULE	7165-1703:0125		
	1	GAMEWELL FCI	INCC-MIC	PAGING MICROPHONE MODULE (OCCUPIES 1 SLOT ON INNER DOOR)	7165-1703:0125		
	1	GAMEWELL FCI	PM-9	POWER SUPPLY CARD	7165-1703:0125		
FACP	1	GAMEWELL FCI	INCC-C	INTELLIGENT NETWORK COMMAND CENTER-CLASSIC	7165-1703:0125		
	1	GAMEWELL FCI	INI-VGX	TRANSPONDER VOICE GATEWAY (UTP ONLY)	7165-1703:0125		
	1	GAMEWELL FCI	E3-BP	INNER DOOR PANEL BLANK PLATE, DOUBLE SIZE (INCC-TEL SLOT)	7165-1703:0125		
	1	GAMEWELL FCI	E3/D2-C	COMMAND CENTER INNER DOOR, 2 SLOT, C SIZE	7165-1703:0125		
	1	GAMEWELL FCI	E3-INX-CPLATE	TRANSPONDER MOUNTING PLATE, C SIZE	7165-1703:0125		
FACP	1	GAMEWELL FCI	LCD-SLP MAIN BOARD	LCD TOUCHSCREEN ANNUNCIATOR DISPLAY, MAIN BOARD	7165-1703:0125		
	2	GAMEWELL FCI	AM-50-25	AM-50, 25VRMS AUDIO OUTPUT, 50 WATT	7165-1703:0125		
	1	GAMEWELL FCI	E3BB-RC/INCC	COMMAND CENTER ENCLOSURE, RED	7165-1703:0125		
	1	GAMEWELL FCI	PM-9	POWER SUPPLY CARD	7165-1703:0125		
	1	GAMEWELL FCI	AM-50-25 BACKUP	AM-50 BACKUP AMPLIFIER , 25VRMS AUDIO OUTPUT, 50 WATT	7165-1703:0125		
	1	GAMEWELL FCI	1100-0450	INNER DOOR PANEL BLANK PLATE, SINGLE SIZE	7165-1703:0125		
	1	GAMEWELL FCI	ILI-MB-E3	INTELLIGENT LOOP INTERFACE-MAIN BOARD	7165-1703:0125		
FATC	1	SPACE AGE ELECTRONICS	SSU00657	FIRE ALARM ACCESSORY CABINET, 23.5" 23.5" 5.5"			
NAC	1	GAMEWELL FCI	HPFF8	NAC POWER SUPPLY	7315-1637:0102		
SS 4	1	DITEK	DTK-2MHLP24B W/DTK-2MB	4 PAIR / 4 WIRE SURGE MODULE W/BASE FOR PIV, NAC, IDC ETC.			
	2	DITEK	DTK-2MHLP24B	2 PAIR / 4 WIRE SURGE MODULE FOR PIV, NAC, IDC ETC.			
SS 4	1	DITEK	DTK-2MHLP24B W/DTK-2MB	4 PAIR / 4 WIRE SURGE MODULE W/BASE FOR PIV, NAC, IDC ETC.			
	2	DITEK	DTK-2MHLP24B	2 PAIR / 4 WIRE SURGE MODULE FOR PIV, NAC, IDC ETC.			
SS 6	1	DITEK	DTK-2MHLP24B W/DTK-3MB	6 PAIR / 4 WIRE SURGE MODULE W/BASE FOR PIV, NAC, IDC ETC.			
	3	DITEK	DTK-2MHLP24B	2 PAIR / 4 WIRE SURGE MODULE FOR PIV, NAC, IDC ETC.			
SS 8	1	DITEK	DTK-2MHLP24B W/DTK-4MB	8 PAIR / 4 WIRE SURGE MODULE W/BASE FOR PIV, NAC, IDC ETC.			
	4	DITEK	DTK-2MHLP24B	2 PAIR / 4 WIRE SURGE MODULE FOR PIV, NAC, IDC ETC.			
AM	2	GAMEWELL FCI	MMI-6SF	MMI-6SF	7300-1703:0124		
	2	GAMEWELL FCI	MCH-6	6-UNIT MOUNTING CHASSIS	7300-1703:0124		
	2	GAMEWELL FCI	MMI-10F	TEN-INPUT MONITOR MODULE	7300-1703:0124		
	2	GAMEWELL FCI	MBB-6	BACKBOX, 6 UNIT (RED)	7300-1703:0124		
SS 24V	1	DITEK	DTK-2MHLP24BWB	SURGE PROTETION LOOP OR DATA (2 ADDR LOOP PER ITEM)	7300-1703:0124		
	1	SYSTEM SENSOR	RTS151	REMOTE TEST STATION W/ SWITCH, ALARM & POWER LEDS	7135-1653:0196		
F	2	GAMEWELL FCI	MS-7AF	ADDRESSABLE PULL STATION, DOUBLE ACTION	7150-1703-0119		
S	1	GAMEWELL FCI	DNR W/ASD-PL3R	INTELLIGENT DUCT DETECTOR HOUSING, NON-RELAY W/ASD-PL2FR	3240-1653:0209	N/A	N/A
H 135°	7	GAMEWELL FCI	ATD-L3R W/B300-6	THERMAL HEAT DETECTOR, 135°F RATE OF RISE, BRIGHT WHITE, VELOCITI W/ 6" FLANGED MOUNTING BASE, BRIGHT WHITE	7270-1703:0115	4" SQ. DEEP	3 "O" PLASTER RING
H AC	45	GAMEWELL FCI	ATD-HL2F W/B210LP	INTELLIGENT ADDRESSABLE 190°F THERMAL DETECTOR W/ FLASHSCAN, PLUG-IN DETECTOR BASE	7270-1703:0115	4" SQ. DEEP	3 "O" PLASTER RING
CO	12	GAMEWELL FCI	MCS-C0F3 W/B300-6	INTELLIGENT MULTI-CRITERIA PHOTO/CO, BRIGHT WHITE, VELOCITI W/ 6" FLANGED MOUNTING BASE, BRIGHT WHITE	7272-1703:0508	4" SQ. DEEP	3 "O" PLASTER RING
S	41	GAMEWELL FCI	ASD-PL3 W/B300-6	PHOTOELECTRIC SMOKE DETECTOR, BRIGHT WHITE, VELOCITI W/ 6" FLANGED MOUNTING BASE, BRIGHT WHITE	7272-1703-0501	4" SQ. DEEP	3 "O" PLASTER RING
	43	SYSTEM SENSOR	SPSCWL	SPEAKER/STROBE CEILING MOUNT, WHITE	7320-1653-0505		
S WP	17	COOPER NOTIFICATION	ET-1010-W	SPEAKER WP WALL MOUNT, WHITE	7125-0785:0152		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
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VETERAN OWNED BUSINESS
SDVOSB
SVA

REGISTERED PROFESSIONAL ENGINEER
JOHN VELTRE
No. 1508
6/30/23
STATE OF CALIFORNIA

VE
VELTRE ENGINEERING, INC.
FIRE PROTECTION ENGINEERING
LIFE SAFETY | CODE CONSULTING
2899 DICKENS ST, UNIT C-01
SAN DIEGO, CA 92106 (858)490-9043

MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

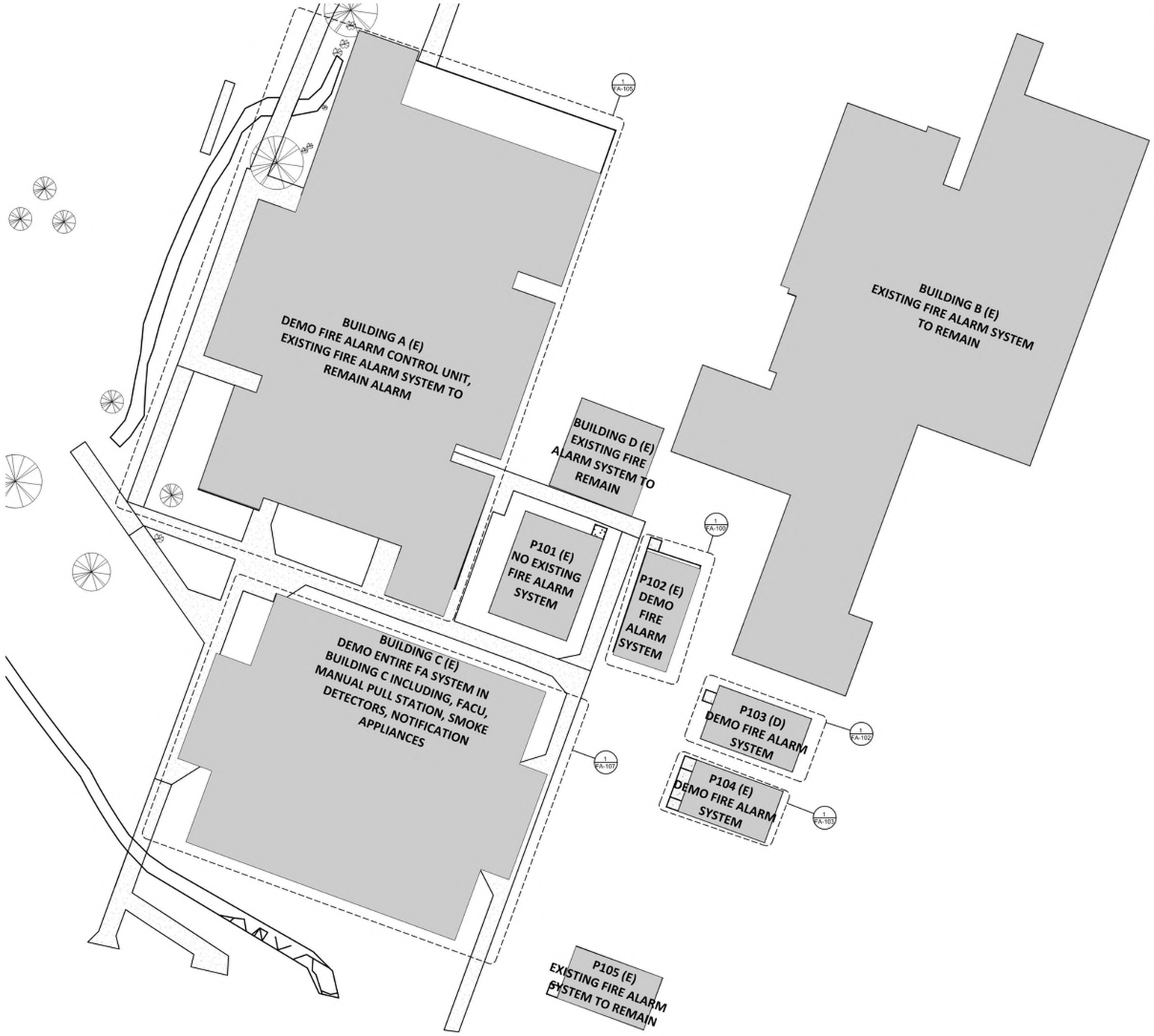
DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

GENERAL NOTES

FA-001

GENERAL NOTES

1. REFER TO SHEET FA-100, FA-102, FA-103, FA-105 AND FA-107 FOR SPECIFIC DEMO PANELS AND DEVICES.
2. REFER TO SHEET FA-001 FOR SCOPE OF WORK.
3. REFER TO ELECTRICAL DRAWINGS FOR DEMO WIRING AND CONDUITS DETAILS.



1 FIRE ALARM DEMOLITION SITE PLAN
1" = 20'-0"

0 10' 20' 40' TRUE NORTH

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REGISTERED PROFESSIONAL ENGINEER JOHN VELTRE No. 1508 6/30/23 FIRE PROTECTION STATE OF CALIFORNIA

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VELTRE ENGINEERING, INC.
FIRE PROTECTION ENGINEERING
LIFE SAFETY | CODE CONSULTING
2899 DICKENS ST, UNIT C-01
SAN DIEGO, CA 92106 (858)490-9043

MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	05.19.22	DSA RESUBMITTAL

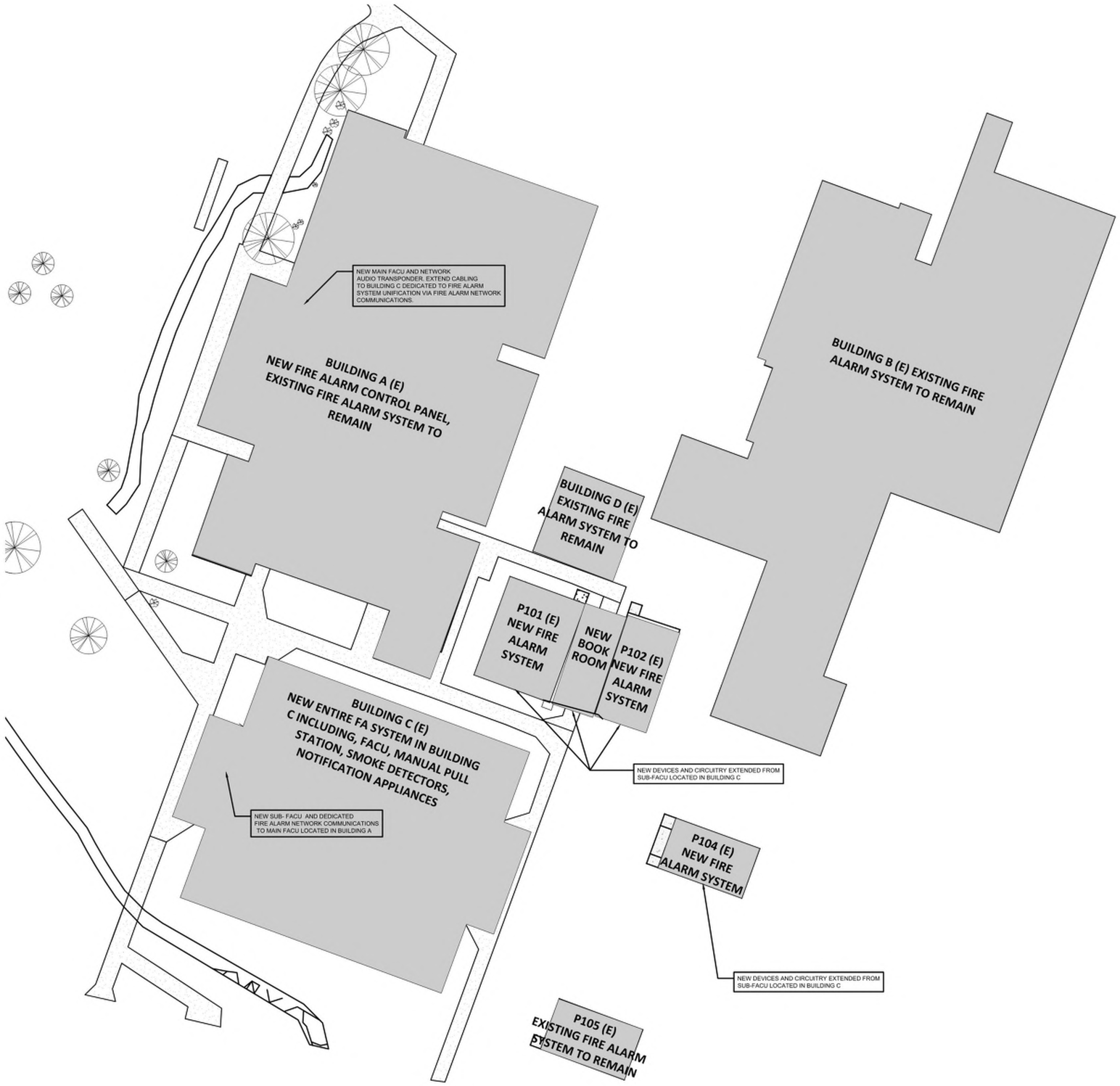
DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

FIRE ALARM DEMOLITION SITE PLAN

FA-002

GENERAL NOTES

1. SEE SHEET FA-001 FOR GENERAL NOTES, SCOPE OF WORK, AND INSTALLATION INFORMATION.
2. REFER TO FA-101, FA-104, FA-106 AND FA-108 FOR SPECIFIC NEW DEVICE LOCATIONS.



1 FIRE ALARM NEW SITE PLAN
1" = 20'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
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DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
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MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
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DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
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FIRE ALARM SITE CIRCUIT PLAN

FA-003

GENERAL NOTES

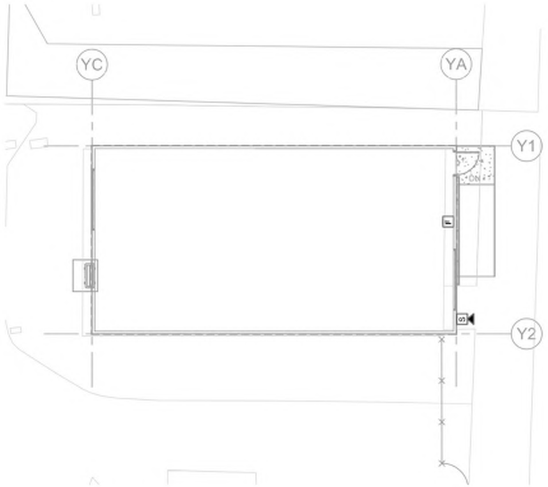
1. DEMO ALL FIRE ALARM EQUIPMENT INCLUDING CONTROL PANELS, PULL STATIONS, AND DEVICES.
2. EXISTING EXPOSED ENT CONDUIT AND WIRING TO REMAIN AND REUTILIZES WITH THE NEW SYSTEM.

KEYNOTES

FIRE ALARM

FIRE ALARM LEGEND

FACP	FIRE ALARM CONTROL PANEL
BATT	FIRE ALARM BETTERY CABINET
LOC	LOCAL OPERATING CONSOLE
FATC	FIRE ALARM TERMINAL CABINET
FAA	FIRE ALARM ANNUNCIATOR
NAC	FIRE ALARM BOOSTER POWER SUPPLY PANEL
AMP	AMPLIFIER PANEL
F	MANUAL PULL STATION
	HORN/STROBE COMBINATION, CEILING MOUNTED
S WP	HORN, WEATHER PROOF
S	SMOKE DETECTOR
H AC	HEAT DETECTOR ABOVE CEILING
H C	HEAT DETECTOR ON CEILING
AIM	ADDRESSIBLE INPUT MODULE



1 BUILDING P102 - DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16'

PLAN NORTH

TRUE NORTH

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MOUNTAIN EMPIRE
UNIFIED SCHOOL
DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE
MIDDLE SCHOOL SITE
MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.15.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING P102 - FIRE ALARM
DEMOLITION PLAN

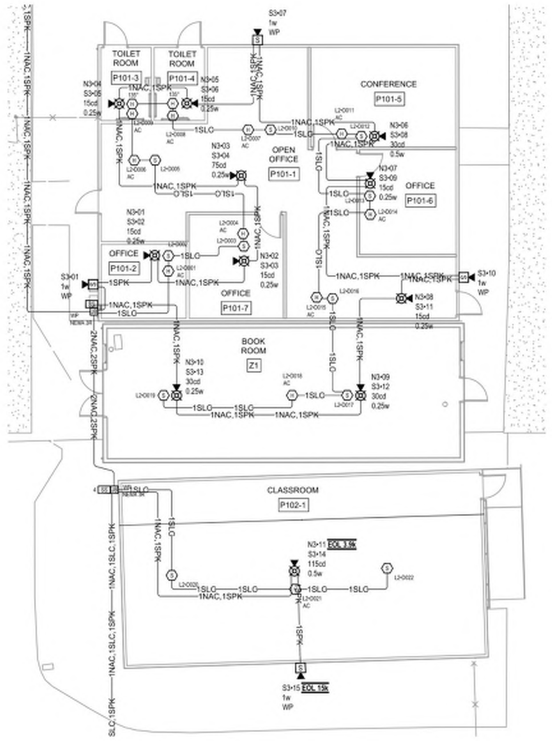
FA-100

GENERAL NOTES

1. SEE SHEET FA-001 FOR GENERAL NOTES, SCOPE OF WORK, AND INSTALLATION INFORMATION.

CABLE AND WIRE LEGEND				
LABEL	PART NO	AWG	RESISTANCE (Ω/KFT)	DESCRIPTION
NAC	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
NAC	12/2 THHN (NAC)	12	1.93	2 COND. SOLID COPPER THHN
NTWU	16/4 TPPLTC FPL (ARCNET)	16	4.89	4 COND. SOLID COPPER TWISTED PLTC FPL ANALOG UNSHIELDED-WET LOCATION/BURIAL RATED
RTS	18/4 FPLP/R (RTS)	18	7.77	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
SLC	16/2 TP FPLP/R (SLC)	16	4.89	2 COND. SOLID COPPER TWISTED FPLP/R ADDRESSABLE UNSHIELDED
SPK	14/2 OAS FPLP/R (SPEAKER)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG SHIELDED
SPKU	14/2 OAS FPLTC	14	3.07	2 COND. SOLID COPPER TYPE TC ANALOG SHIELDED

SEGMENT LABEL SCHEDULE	
SEGMENT ID	LABEL
C12	3 NAC 1 NTWU 2 SPK
C2	1 NAC 1 SPK
C3	1 NTWU
C7	2 NAC 1 NTWU 1 SLC 1 SPK



1 FIRE ALARM - CIRCUIT PLAN - BUILDING P101, P102, & BOOKROOM

1/8" = 1'-0"

0' 4' 8' 16'

PLAN NORTH TRUE NORTH

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MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	05.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING P101, P102, AND BOOKROOM FIRE ALARM CIRCUIT PLAN

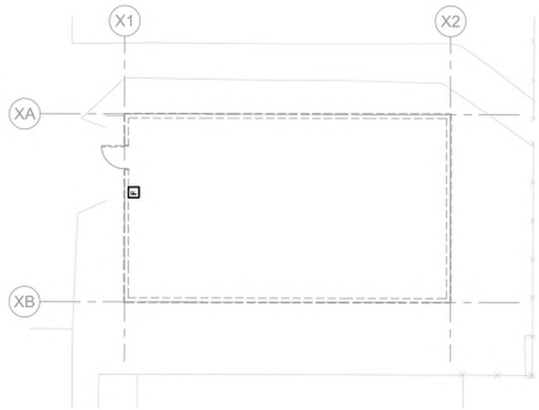
FA-101

GENERAL NOTES

1. DEMO ALL FIRE ALARM EQUIPMENT INCLUDING CONTROL PANELS, PULL STATIONS, AND DEVICES.
2. EXISTING EXPOSED ENT CONDUIT AND WIRING TO REMAIN AND REUTILIZES WITH THE NEW SYSTEM.

KEYNOTES

FIRE ALARM



1 BUILDING P103 - FIRE ALARM DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16' PLAN NORTH TRUE NORTH

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JOHN VELTRE
No. 1508
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MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

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3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
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DAVY PROJECT No:
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BUILDING P103 - FIRE ALARM DEMOLITION PLAN

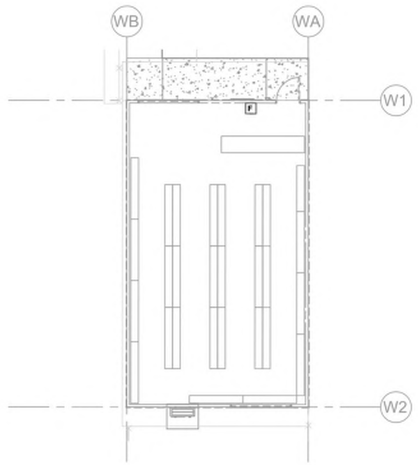
FA-102

GENERAL NOTES

1. DEMO ALL FIRE ALARM EQUIPMENT INCLUDING CONTROL PANELS, PULL STATIONS, AND DEVICES.
2. EXISTING EXPOSED ENT CONDUIT AND WIRING TO REMAIN AND REUTILIZES WITH THE NEW SYSTEM.

FIRE ALARM LEGEND

FACP	FIRE ALARM CONTROL PANEL
BATT	FIRE ALARM BETTERY CABINET
LOC	LOCAL OPERATING CONSOLE
FATC	FIRE ALARM TERMINAL CABINET
FAA	FIRE ALARM ANNUNCIATOR
NAC	FIRE ALARM BOOSTER POWER SUPPLY PANEL
AMP	AMPLIFIER PANEL
F	MANUAL PULL STATION
	HORN/STROBE COMBINATION, CEILING MOUNTED
S	HORN, WEATHER PROOF
	SMOKE DETECTOR
H	HEAT DETECTOR ABOVE CEILING
H	HEAT DETECTOR ON CEILING
	ADDRESSIBLE INPUT MODULE



1 BUILDING P104 - FIRE ALARM DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16'

PLAN NORTH

TRUE NORTH

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MOUNTAIN EMPIRE
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PROJECT NO. 2017

MOUNTAIN EMPIRE
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MODERNIZATION

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MARK	DATE	DESCRIPTION
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DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING P104 - FIRE ALARM
DEMOLITION PLAN

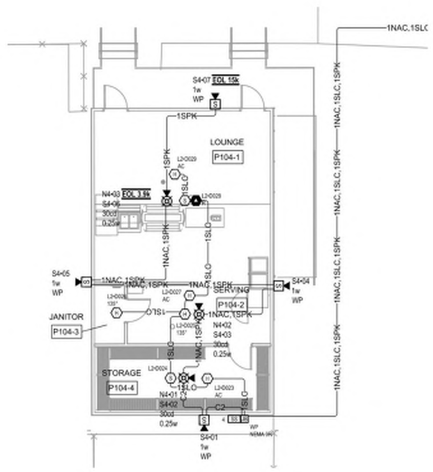
FA-103

GENERAL NOTES

1. SEE SHEET FA-001 FOR GENERAL NOTES, SCOPE OF WORK, AND INSTALLATION INFORMATION.

CABLE AND WIRE LEGEND				
LABEL	PART NO	AWG	RESISTANCE (Ω/KFT)	DESCRIPTION
NAC	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
NAC	12/2 THHN (NAC)	12	1.93	2 COND. SOLID COPPER THHN
NTWU	16/4 TPPLTC FPL (ARCNET)	16	4.89	4 COND. SOLID COPPER TWISTED PLTC FPL ANALOG UNSHIELDED-WET LOCATION/BURIAL RATED
RTS	18/4 FPLP/R (RTS)	18	7.77	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
SLC	16/2 TP FPLP/R (SLC)	16	4.89	2 COND. SOLID COPPER TWISTED FPLP/R ADDRESSABLE UNSHIELDED
SPK	14/2 OAS FPLP/R (SPEAKER)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG SHIELDED
SPKU	14/2 OAS FPLTC	14	3.07	2 COND. SOLID COPPER TYPE TC ANALOG SHIELDED

SEGMENT LABEL SCHEDULE	
SEGMENT ID	LABEL
C12	3 NAC 1 NTWU 2 SPK
C2	1 NAC 1 SPK
C3	1 NTWU
C7	2 NAC 1 NTWU 1 SLC 1 SPK



1 BUILDING P104 - FIRE ALARM CIRCUIT PLAN
1/8" = 1'-0"

0' 4' 8' 16'

PLAN NORTH TRUE NORTH

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DAVY ARCHITECTURE
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MOUNTAIN EMPIRE
UNIFIED SCHOOL
DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE
MIDDLE SCHOOL SITE
MODERNIZATION

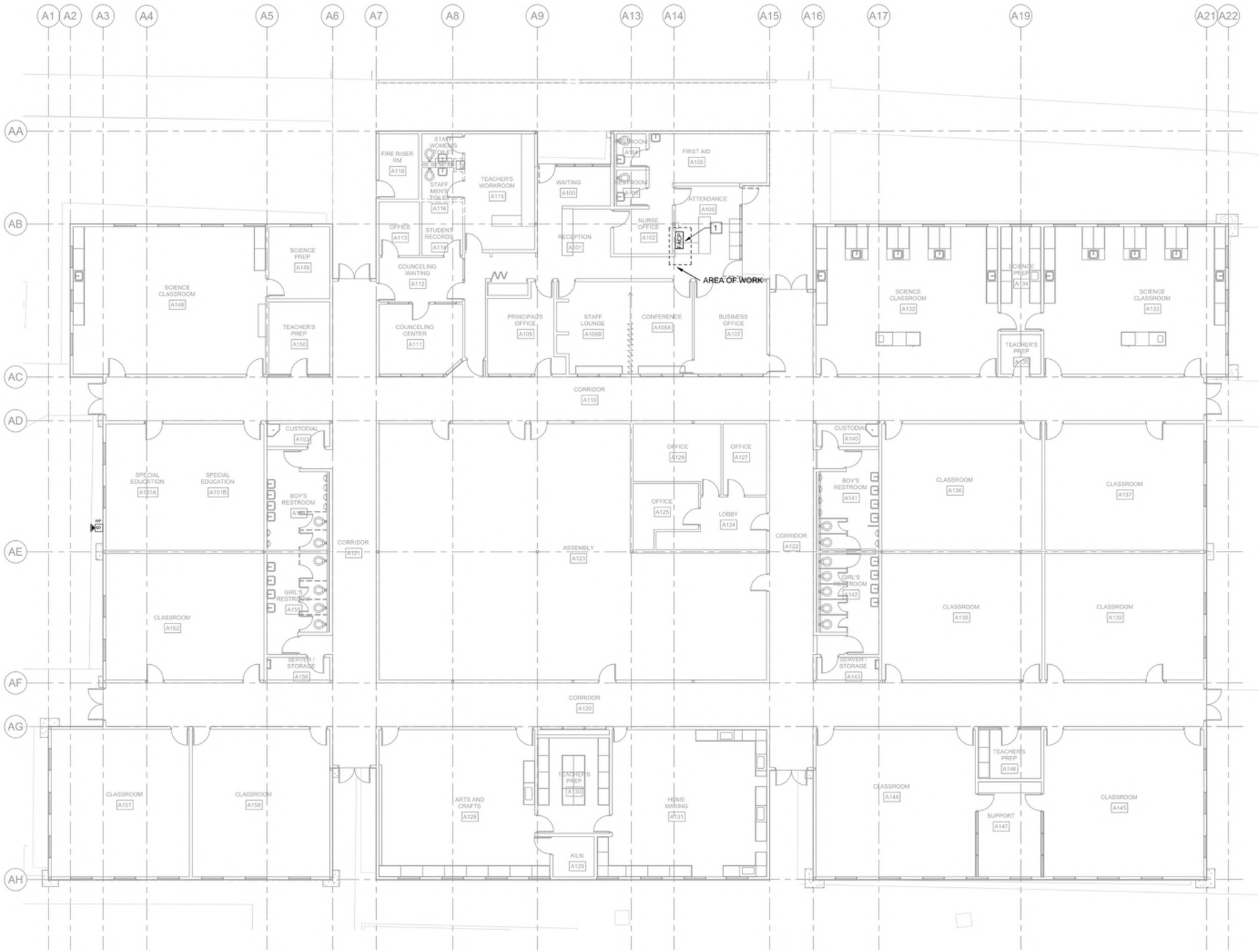
3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING P104 - FIRE ALARM CIRCUIT PLAN

FA-104



GENERAL NOTES

1. REPLACE FIRE ALARM CONTROL PANEL.

KEYNOTES

1	REPLACE EXISTING FIRE ALARM CONTROL PANEL (FACP).

FIRE ALARM LEGEND

FACP	FIRE ALARM CONTROL PANEL
BATT	FIRE ALARM BETTERY CABINET
LOC	LOCAL OPERATING CONSOLE
FATC	FIRE ALARM TERMINAL CABINET
FAA	FIRE ALARM ANNUNCIATOR
NAC	FIRE ALARM BOOSTER POWER SUPPLY PANEL
AMP	AMPLIFIER PANEL
F	MANUAL PULL STATION
	HORN/STROBE COMBINATION, CEILING MOUNTED
S WP	HORN, WEATHER PROOF
	SMOKE DETECTOR
H AC	HEAT DETECTOR ABOVE CEILING
H	HEAT DETECTOR ON CEILING
AM	ADDRESSIBLE INPUT MODULE

1 BUILDING A - FIRE ALARM DEMOLITION PLAN

1/8" = 1'-0"

0" 4" 8" 16"

PLAN NORTH

TRUE NORTH

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REGISTERED PROFESSIONAL ENGINEER
JOHN VELTRE
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MOUNTAIN EMPIRE
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PROJECT NO. 2017

MOUNTAIN EMPIRE
MIDDLE SCHOOL SITE
MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING A - FIRE ALARM
DEMOLITION PLAN

FA-105

CABLE AND WIRE LEGEND				
LABEL	PART NO	AWG	RESISTANCE (Ω/KFT)	DESCRIPTION
NAC	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
NAC	12/2 THHN (NAC)	12	1.93	2 COND. SOLID COPPER THHN
NTWU	16/4 TPPLTC FPL (ARCNET)	16	4.89	4 COND. SOLID COPPER TWISTED PLTC FPL ANALOG UNSHIELDED-WET LOCATION/BURIAL RATED
RTS	18/4 FPLP/R (RTS)	18	7.77	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
SLC	16/2 TP FPLP/R (SLC)	16	4.89	2 COND. SOLID COPPER TWISTED FPLP/R ADDRESSABLE UNSHIELDED
SPK	14/2 OAS FPLP/R (SPEAKER)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG SHIELDED
SPKU	14/2 OAS FPLTC	14	3.07	2 COND. SOLID COPPER TYPE TC ANALOG SHIELDED

SEGMENT LABEL SCHEDULE	
SEGMENT ID	LABEL
C12	3 NAC 1 NTWU 2 SPK
C2	1 NAC 1 SPK
C3	1 NTWU
C7	2 NAC 1 NTWU 1 SLC 1 SPK

GENERAL NOTES

1. SEE SHEET FA-001 FOR GENERAL NOTES, SCOPE OF WORK, AND INSTALLATION INFORMATION.
2. NEW FACP MUST BE COMPATIBLE WITH EXISTING SYSTEM DEVICES AND MUST BE EXPANDABLE AND INCLUDE ADDRESSABLE DEVICES, NOTIFICATION APPLIANCES, CONTROLS AND SUPERVISORY DEVICES.

1 BUILDING A - FIRE ALARM CIRCUIT PLAN
1/8" = 1'-0"

0' 4' 8' 16' PLAN NORTH TRUE NORTH

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MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

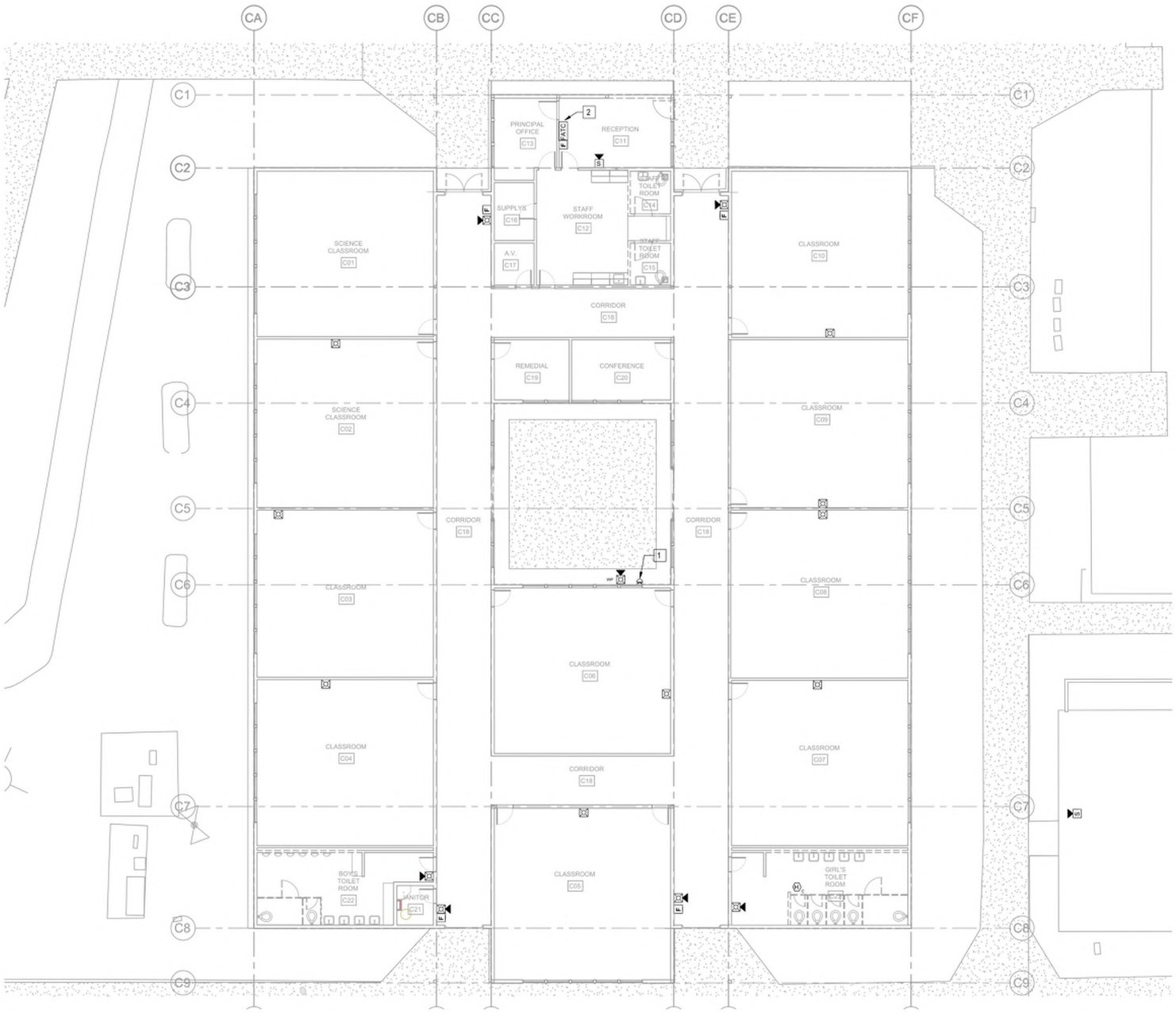
3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	06.15.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING A - FIRE ALARM CIRCUIT PLAN

FA-106



1 BUILDING C - FIRE ALARM DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16'

PLAN NORTH

TRUE NORTH

GENERAL NOTES

1. DEMO ALL FIRE ALARM EQUIPMENT INCLUDING CONTROL PANELS, PULL STATIONS, AND DEVICES.
2. EXISTING EXPOSED ENT CONDUIT AND WIRING TO REMAIN AND REUTILIZES WITH THE NEW SYSTEM.

KEYNOTES

1	EXISTING BELL TO REMAIN.
2	DEMO EXISTING FIRE ALARM CONTROL PANEL (FACP).

FIRE ALARM LEGEND

FACP	FIRE ALARM CONTROL PANEL
BATT	FIRE ALARM BETTERY CABINET
LOC	LOCAL OPERATING CONSOLE
FATC	FIRE ALARM TERMINAL CABINET
FAA	FIRE ALARM ANNUNCIATOR
NAC	FIRE ALARM BOOSTER POWER SUPPLY PANEL
AMP	AMPLIFIER PANEL
F	MANUAL PULL STATION
	HORN/STROBE COMBINATION, CEILING MOUNTED
S WP	HORN, WEATHER PROOF
	SMOKE DETECTOR
H AC	HEAT DETECTOR ABOVE CEILING
H C	HEAT DETECTOR ON CEILING
AIM	ADDRESSIBLE INPUT MODULE

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MOUNTAIN EMPIRE
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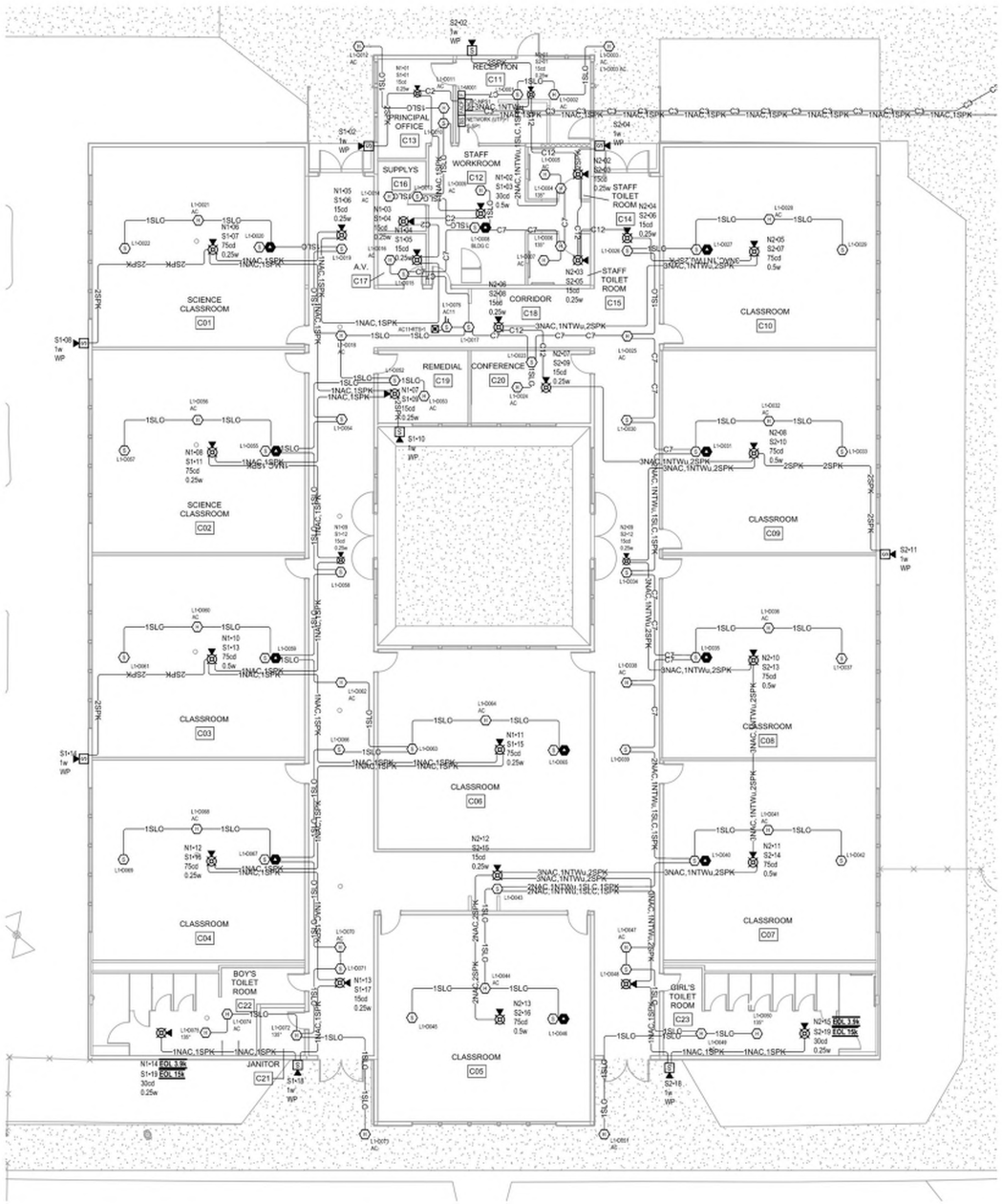
3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING C - FIRE ALARM
DEMOLITION PLAN

FA-107



2 FIRE ALARM - CIRCUIT PLAN - BUILDING C
1/8" = 1'-0"

0' 4' 8' 16' PLAN NORTH TRUE NORTH

GENERAL NOTES

1. SEE SHEET FA-001 FOR GENERAL NOTES, SCOPE OF WORK, AND INSTALLATION INFORMATION.
2. PROVIDE A NEW INTELLIGENT REPORTING MICROPROCESSOR-CONTROLLED FIRE DETECTION AND EMERGENCY VOICE ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH THE APPLICABLE CRITERIA, SPECIFICATIONS, AND AS INDICATED ON THE DRAWINGS.
3. SYSTEM SHALL BE EXPANDABLE AND INCLUDE ADDRESSABLE DEVICES, NOTIFICATION APPLIANCES, CONTROLS AND SUPERVISORY DEVICES.

CABLE AND WIRE LEGEND				
LABEL	PART NO	AWG	RESISTANCE (Ω/KFT)	DESCRIPTION
NAC	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
NAC	12/2 THHN (NAC)	12	1.93	2 COND. SOLID COPPER THHN
NTWU	16/4 TPPLTC FPL (ARCNET)	16	4.89	4 COND. SOLID COPPER TWISTED PLTC FPL ANALOG UNSHIELDED-WET LOCATION/BURIAL RATED
RTS	18/4 FPLP/R (RTS)	18	7.77	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
SLC	16/2 TP FPLP/R (SLC)	16	4.89	2 COND. SOLID COPPER TWISTED FPLP/R ADDRESSABLE UNSHIELDED
SPK	14/2 OAS FPLP/R (SPEAKER)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG SHIELDED
SPKU	14/2 OAS FPLTC	14	3.07	2 COND. SOLID COPPER TYPE TC ANALOG SHIELDED

SEGMENT LABEL SCHEDULE	
SEGMENT ID	LABEL
C12	3 NAC 1 NTWU 2 SPK
C2	1 NAC 1 SPK
C3	1 NTWU
C7	2 NAC 1 NTWU 1 SLC 1 SPK

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
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REGISTERED PROFESSIONAL ENGINEER
JOHN VELTRE
No. 1508
6/30/23
ELECTRICAL
STATE OF CALIFORNIA

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LIFE SAFETY | CODE CONSULTING
2899 DICKENS ST, UNIT C-01
SAN DIEGO, CA 92106 (858)490-9043

MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

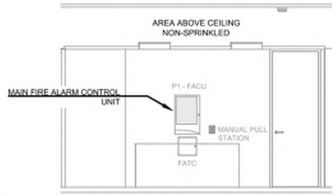
3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	06.19.22	DSA RESUBMITTAL

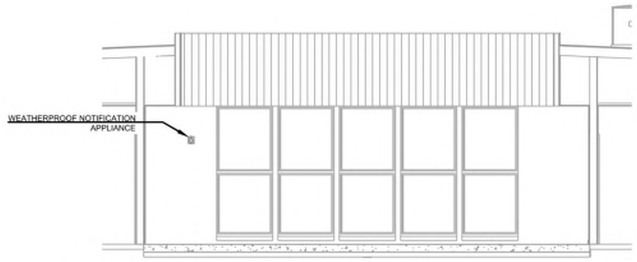
DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

BUILDING C - FIRE ALARM PLAN

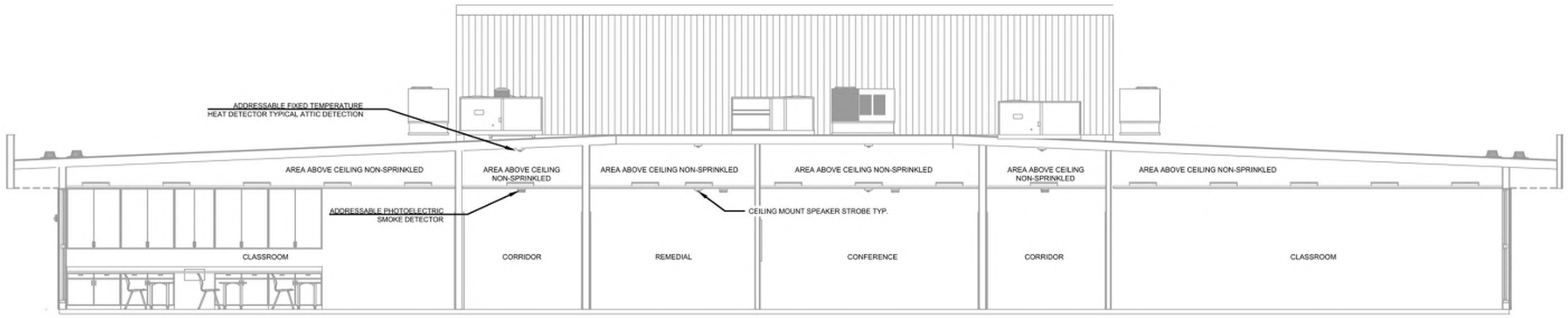
FA-108



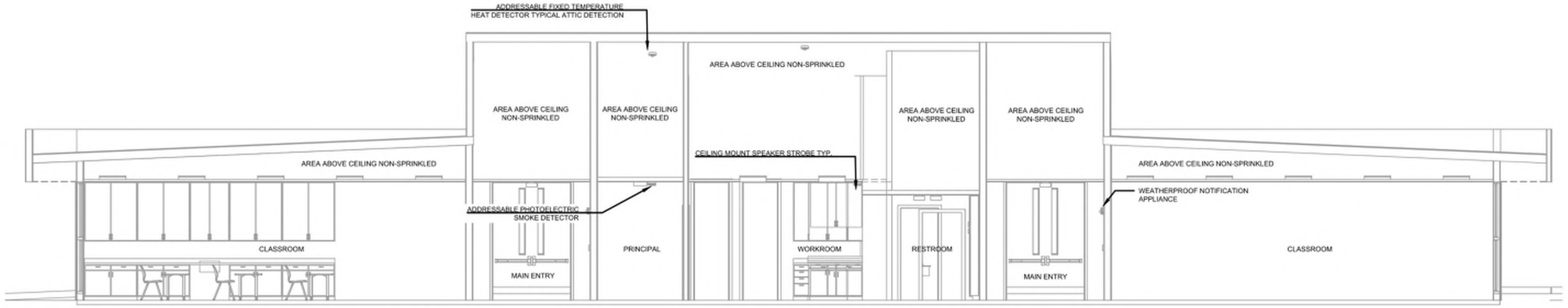
1 BUILDING A106 - FACU LOCATION
1/4" = 1'-0"



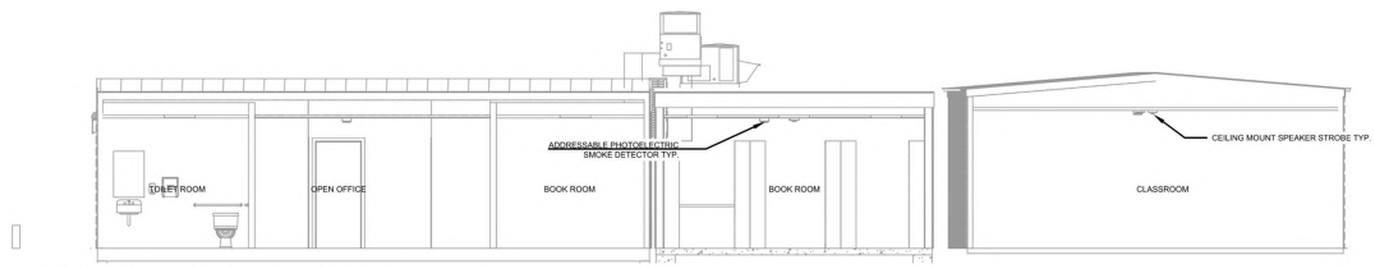
2 BUILDING C - CORE ATRIUM OPEN AIR
1/4" = 1'-0"



3 BUILDING C - CENTER
1/4" = 1'-0"



4 BUILDING C - MAIN ENTRIES AND EXTERIOR SOFFIT
1/4" = 1'-0"



5 BUILDING P101, P102, AND BOOKROOM
1/4" = 1'-0"

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MOUNTAIN EMPIRE
UNIFIED SCHOOL
DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE
MIDDLE SCHOOL SITE
MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

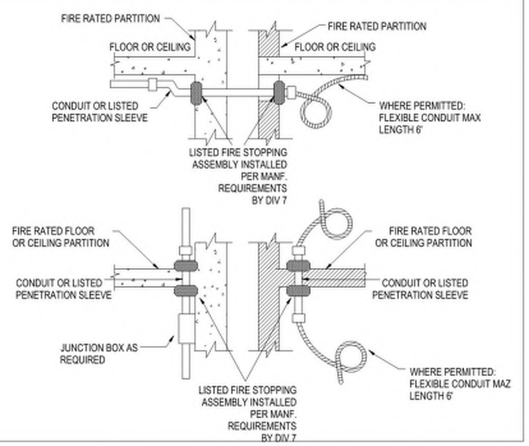
MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

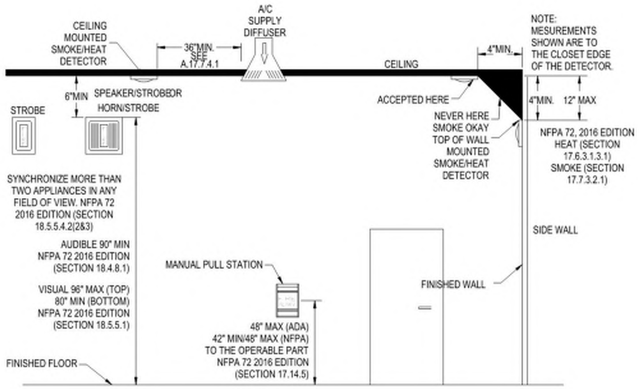
ELEVATION SECTIONS

FA-109

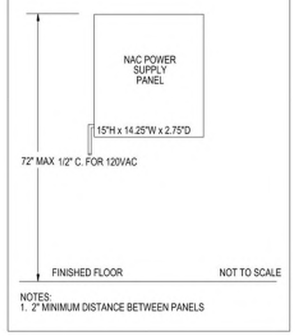
CONDUIT PENETRATION THROUGH FIRE RATED ASSEMBLIES



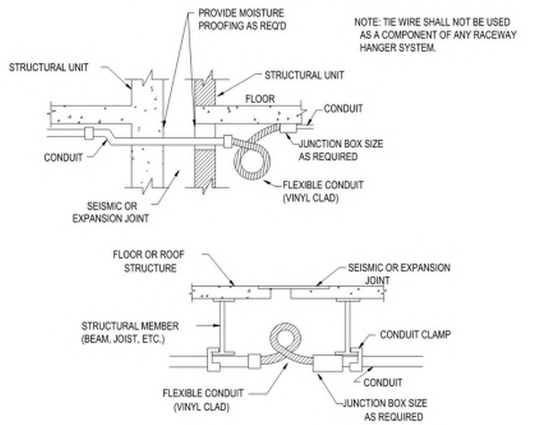
FIRE ALARM DEVICE ELEVATIONS



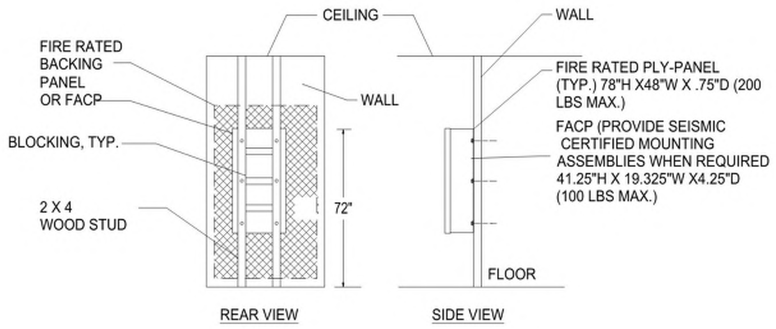
NAC PANEL ELEVATION DETAIL



CONDUIT CROSSING SEISMIC OR EXPANSION JOINT

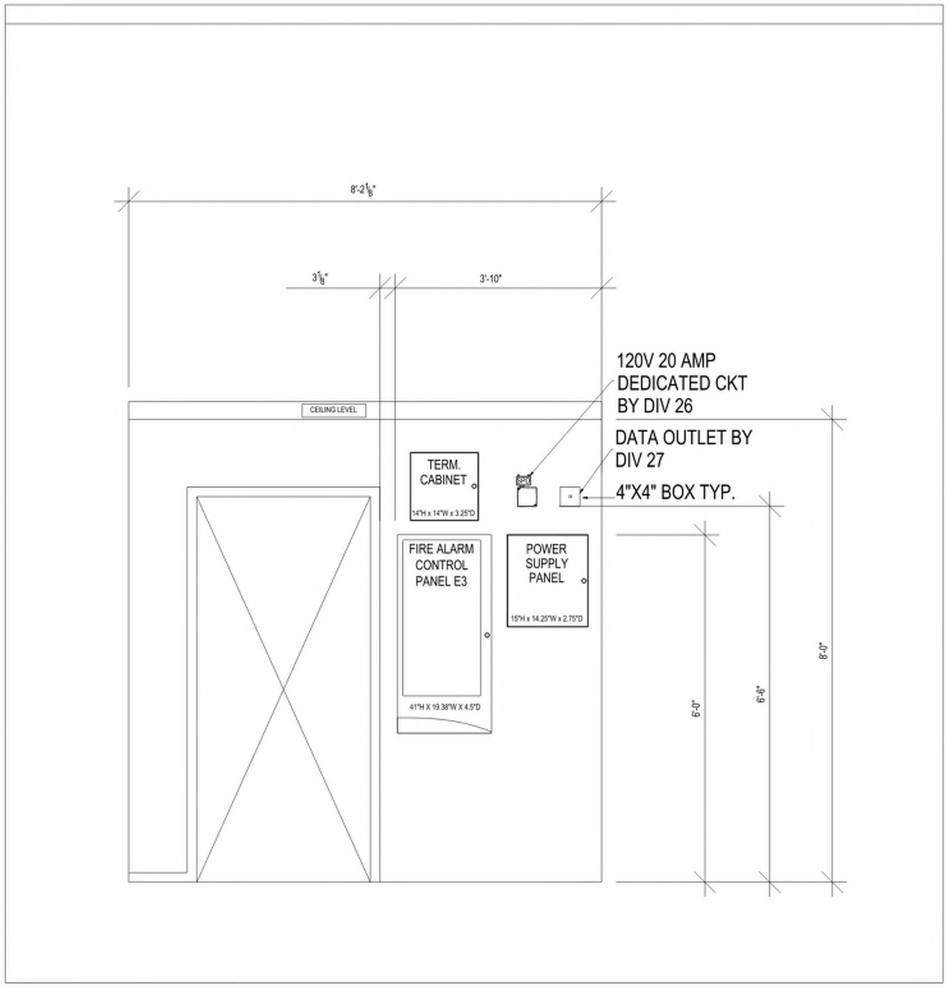


WALL MOUNTED EQUIPMENT SUPPORT DETAIL



NOTE:

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



1 FIRE ALARM DETAILS
1/8" = 1'-0"

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MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
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DRAWN BY: S. RAWLINGS
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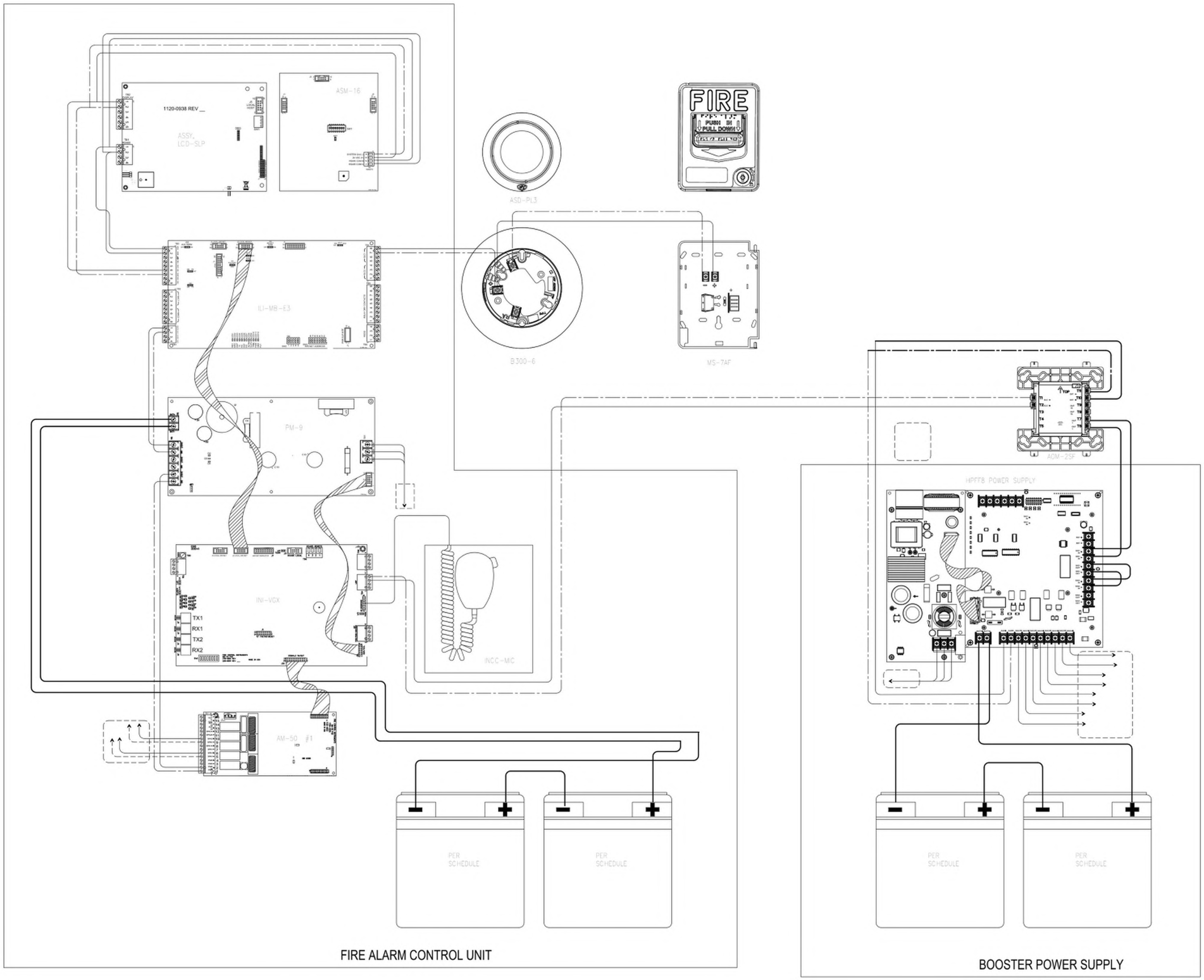
FIRE ALARM EQUIPMENT DETAILS

FA-110



FIRE ALARM CONTROL UNIT

BOOSTER POWER SUPPLY

1 FIRE ALARM POINT TO POINT DIAGRAM
NOT TO SCALE

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MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

FIRE ALARM POINT TO POINT DIAGRAM

FA-111

PANEL A-P1 (E3 SERIES CLASSIC) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

					STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
PANEL COMPONENTS		1	ASM-16	Addressable Switch Module	0.011	**0.011**	0.011	**0.011**
		1	ILI-MB-E3	Intelligent Loop Interface-Main Board	0.081	**0.081**	0.15	**0.15**
		1	INCC-MIC	Paging microphone module (occupies 1 slot on inner door)	0.001	**0.001**	0.001	**0.001**
		1	INI-VGX	Transponder Voice Gateway (UTP only)	0.15	**0.15**	0.15	**0.15**
		1	LCD-SLP MAIN BOARD	LCD Touchscreen Annunciator Display, Main Board	0.03	**0.03**	0.065	**0.065**
		1	PM-9	Power Supply Card	0.05	**0.05**	0.05	**0.05**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
A-P1•ND1-ILI-L1	S	1	ASD-PL3 w/B300-6	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.0002	**0.0002**	0.0045	**0.0045**
	AM	1	MMI-6SF	MMI-6SF	0.002	**0.002**	0.04	**0.04**
	F	1	MS-7AF	Addressable Pull Station, Double Action	0.0003	**0.0003**	0.0003	**0.0003**
					TOTAL STANDBY (A)	**0.3255**	TOTAL ALARM (A)	**0.4718**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)				**0.3255**	24			**7.812**
SECONDARY ALARM LOAD (A)				**0.4718**	0.25			**0.118**
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					**7.93**			
DERATING FACTOR					1.2			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					**9.516**			
PROVIDE (2) 12V 12AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

PANEL C-NPS1 (HPFF8) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

PANEL POWER SUPPLY MAX CURRENT = 8A — TOTAL USED CAPACITY (IN ALARM) = 2.923A (36.54 %)

					STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
		1	HPFF8 Main Board	Main board	0.206	**0.206**	0.075	**0.075**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
C-NPS1•N1		7	SPSCWL	Speaker/Strobe Ceiling Mount, White 15cd	0	**0**	0.041	**0.287**
		2	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	0	**0**	0.063	**0.126**
		5	SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	0	**0**	0.111	**0.555**
C-NPS1•N2		9	SPSCWL	Speaker/Strobe Ceiling Mount, White 15cd	0	**0**	0.041	**0.369**
		1	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	0	**0**	0.063	**0.063**
		5	SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	0	**0**	0.111	**0.555**
C-NPS1•N3		6	SPSCWL	Speaker/Strobe Ceiling Mount, White 15cd	0	**0**	0.041	**0.246**
		3	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	0	**0**	0.063	**0.189**
		1	SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	0	**0**	0.111	**0.111**
		1	SPSCWL	Speaker/Strobe Ceiling Mount, White 115cd	0	**0**	0.158	**0.158**
C-NPS1•N4		3	SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	0	**0**	0.063	**0.189**
					TOTAL STANDBY (A)	**0.206**	TOTAL ALARM (A)	**2.923**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)				**0.206**	24			**4.944**
SECONDARY ALARM LOAD (A)				**2.923**	0.25			**0.731**
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					**5.675**			
DERATING FACTOR					1.2			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					**6.81**			
PROVIDE (2) 12V 7AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

PANEL C-SP1 (INCC-C) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

					STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
PANEL COMPONENTS		2	AM-50-25	AM-50, 25VRMS audio output, 50 watt	0.086	**0.172**	2.206	**4.412**
		1	ILI-MB-E3	Intelligent Loop Interface-Main Board	0.081	**0.081**	0.15	**0.15**
		1	INI-VGX	Transponder Voice Gateway (UTP only)	0.15	**0.15**	0.15	**0.15**
		1	LCD-SLP MAIN BOARD	LCD Touchscreen Annunciator Display, Main Board	0.03	**0.03**	0.065	**0.065**
		1	PM-9	Power Supply Card	0.05	**0.05**	0.05	**0.05**
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
C-SP1•ND3-ILI-L1	S	28	ASD-PL3 w/B300-6	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.0002	**0.0056**	0.0045	**0.126**
	H AC	31	ATD-HL2F w/B210LP	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	0.0003	**0.0093**	0.0003	**0.0093**
	H 135°	5	ATD-L3R w/B300-6	Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.0002	**0.001**	0.0045	**0.0225**
	D	1	DNR w/ASD-PL3R	Intelligent duct detector housing, non-relay w/ASD-PL2FR	0.0002	**0.0002**	0.0045	**0.0045**
	CO	11	MCS-COP3 w/B300-6	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.0002	**0.0022**	0.0045	**0.0495**
	F	1	MS-7AF	Addressable Pull Station, Double Action	0.0003	**0.0003**	0.0003	**0.0003**
C-SP1•ND3-ILI-L2	S	12	ASD-PL3 w/B300-6	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.0002	**0.0024**	0.0045	**0.054**
	H AC	14	ATD-HL2F w/B210LP	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	0.0003	**0.0042**	0.0003	**0.0042**
	H 135°	2	ATD-L3R w/B300-6	Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.0002	**0.0004**	0.0045	**0.009**
	CO R	1	MCS-COP3 w/B224RB-WH	Intelligent multi-criteria photo/CO, bright white, Velociti w/ Intelligent relay base, white, UL listed	0.0002	**0.0002**	0.0045	**0.0045**
					TOTAL STANDBY (A)	**0.5088**	TOTAL ALARM (A)	**5.1108**
					REQUIRED STANDBY TIME = 24 HOURS			
					REQUIRED ALARM TIME = 15 MINUTES			
SECONDARY STANDBY LOAD (A)				**0.5088**	24			**12.211**
SECONDARY ALARM LOAD (A)				**5.1108**	0.25			**1.278**
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					**13.489**			
DERATING FACTOR					1.2			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)					**16.187**			
PROVIDE (2) 12V 18AH BATTERIES								
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.								

1 FIRE ALARM BATTERY CALCULATIONS

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MOUNTAIN EMPIRE
UNIFIED SCHOOL
DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

FIRE ALARM BATTERY CALCULATIONS

FA-112

C-NPS1 VOLTAGE DROP SUMMARY N1

CIRCUIT SETTINGS		TOTALS	
Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**2.79**
Min. Operational Voltage:	16	End Of Line Voltage:	**17.61**
Max. Circuit Current (A):	3	Voltage Drop Percent:	**13.68 %**
Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	**0.97**
Total Circuit Length (Ft):	469.7	Spare Current (A):	**2.03**
Total Circuit Resistance (Ω):	2.88	Spare Current (A) Percent:	**67.73 %**

Circuit Wiring Properties: 'NAC' 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded

Distance measured using drawn segment lengths with 10.00 % additional length calculated

	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
DEVICE TOTALS		SPSCWL	Speaker/Strobe Ceiling Mount, White 15cd	7	0.04	**0.29**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	2	0.06	**0.13**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	5	0.11	**0.56**	

Calculation Methods:

Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)

Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)

C-NPS1 VOLTAGE DROP SUMMARY N2 REPORT

CIRCUIT SETTINGS		TOTALS	
Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**3.65**
Min. Operational Voltage:	16	End Of Line Voltage:	**17.35**
Max. Circuit Current (A):	3	Voltage Drop Percent:	**14.93 %**
Wire Resistance (Ω/KFt):	3.07	Total Circuit Current (A):	**0.99**
Total Circuit Length (Ft):	502.53	Spare Current (A):	**2.01**
Total Circuit Resistance (Ω):	3.09	Spare Current (A) Percent:	**67.10 %**

Circuit Wiring Properties: 'NAC' 14/2 FPLP/R (NAC) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Unshielded

Distance measured using drawn segment lengths with 10.00 % additional length calculated

	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
DEVICE TOTALS		SPSCWL	Speaker/Strobe Ceiling Mount, White 15cd	9	0.04	**0.37**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	1	0.06	**0.06**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	5	0.11	**0.56**	

Calculation Methods:

Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)

Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)

C-NPS1 VOLTAGE DROP SUMMARY N3 REPORT

CIRCUIT SETTINGS		TOTALS	
Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**1.57**
Min. Operational Voltage:	16	End Of Line Voltage:	**18.83**
Max. Circuit Current (A):	3	Voltage Drop Percent:	**7.72 %**
Wire Resistance (Ω/KFt):	1.93	Total Circuit Current (A):	**0.7**
Total Circuit Length (Ft):	579.44	Spare Current (A):	**2.3**
Total Circuit Resistance (Ω):	2.24	Spare Current (A) Percent:	**76.53 %**

Circuit Wiring Properties: 'NAC' 12/2 THHN (NAC) 12 AWG, 2 Cond. Solid Copper THHN

Distance measured using drawn segment lengths with 10.00 % additional length calculated

	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
DEVICE TOTALS	SS 6	DTK-2M/LP24B w/DTK-3MB	6 Pair / 4 Wire Surge Module w/Base for PIV, NAC, IDC etc.	1	0	**0**	
	SS 8	DTK-2M/LP24B w/DTK-4MB	8 Pair / 4 Wire Surge Module w/Base for PIV, NAC, IDC etc.	1	0	**0**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 15cd	6	0.04	**0.25**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	3	0.06	**0.19**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 75cd	1	0.11	**0.11**	
		SPSCWL	Speaker/Strobe Ceiling Mount, White 115cd	1	0.16	**0.16**	

Calculation Methods:

Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)

Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)

C-NPS1 N4 LUMP SUM REPORT

CIRCUIT SETTINGS		TOTALS	
Starting Calculation Voltage:	20.4	Max. Voltage Drop:	**0.35**
Min. Operational Voltage:	16	End Of Line Voltage:	**20.05**
Max. Circuit Current (A):	3	Voltage Drop Percent:	**1.72 %**
Wire Resistance (Ω/KFt):	1.93	Total Circuit Current (A):	**0.19**
Total Circuit Length (Ft):	480.07	Spare Current (A):	**2.81**
Total Circuit Resistance (Ω):	1.85	Spare Current (A) Percent:	**93.70 %**

Circuit Wiring Properties: 'NAC' 12/2 THHN (NAC) 12 AWG, 2 Cond. Solid Copper THHN

Distance measured using drawn segment lengths with 10.00 % additional length calculated

	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
DEVICE TOTALS		SPSCWL	Speaker/Strobe Ceiling Mount, White 30cd	3	0.06	**0.19**	

Calculation Methods:

Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)

Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)

1 FIRE ALARM VOLTAGE DROP SCHEDULES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
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FIRE PROTECTION ENGINEERING
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2899 DICKENS ST, UNIT C-01
SAN DIEGO, CA 92106 (858)490-9043

MOUNTAIN EMPIRE
UNIFIED SCHOOL
DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE
MIDDLE SCHOOL SITE
MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	06.19.22	DSA RESUBMITTAL

DAVY PROJECT No:

DRAWN BY: S. RAWLINGS

CHECKED BY: J. VELTRE

FIRE ALARM VOLTAGE DROP SCHEDULES

FA-113

ND3-ILI C-SP1 L1 DEVICE SCHEDULE			TOTALS	
			Total Circuit Length (Ft)	11715.87
			Total Used SLC MODULES:	1
			Total Used SLC SENSORS:	76
Device Label	**Part No.**	**Building**	**Description**	
L1-M001	MS-7AF	BLDG C	Addressable Pull Station, Double Action	
L1-D001	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D002	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D003	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D004	ATD-L3R w/B300-6	BLDG C	Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D005	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D006	ATD-L3R w/B300-6	BLDG C	Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D007	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D008	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D009	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D010	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D011	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D012	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D013	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D014	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D015	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D016	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D017	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D018	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D019	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D020	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D021	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D022	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D023	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D024	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D025	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D026	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D027	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D028	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D029	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D030	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D031	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D032	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D033	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D034	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D035	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D036	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D037	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D038	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D039	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D040	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D041	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D042	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D043	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D044	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D045	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D046	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D047	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D048	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D049	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D050	ATD-L3R w/B300-6	BLDG C	Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D051	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D052	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D053	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D054	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D055	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D056	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D057	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D058	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D059	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D060	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D061	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D062	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D063	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D064	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D065	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D066	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D067	MCS-COP3 w/B300-6	BLDG C	Intelligent multi-criteria photo/CO, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D068	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D069	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D070	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D071	ASD-PL3 w/B300-6	BLDG C	Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D072	ATD-L3R w/B300-6	BLDG C	Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D073	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D074	ATD-HL2F w/B210LP	BLDG C	Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	
L1-D075	ATD-L3R w/B300-6	BLDG C	Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-D076	DNR w/ASD-PL3R	BLDG C	Intelligent duct detector housing, non-relay w/ASD-PL2FR	

ND1-ILI A-P1 L1 DEVICE SCHEDULE			TOTALS	
			Total Circuit Length (Ft)	66.44
			Total Used SLC MODULES:	14
			Total Used SLC SENSORS:	1
Device Label	**Part No.**	**Building**	**Description**	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
	MMI-6SF	BLDG A	MMI-6SF	
L1-D001	ASD-PL3 w/B300-6		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	
L1-M014	MS-7AF		Addressable Pull Station, Double Action	

ND2-INI A-P1 NETWORK (UTP) DEVICE SCHEDULE			TOTALS	
			Total Circuit Length (Ft)	2790.92
Circuit Wiring Properties: 'NTWu' 16/4 TPPLTC FPL (ARCNET) 16 AWG, 4 Cond. Solid Copper Twisted PLTC FPL Analog Unshielded-Wet Location/Burial Rated				
Distance measured using drawn segment lengths with 10.00 % additional length calculated				
Device Label	**Part No.**	**Building**	**Description**	**Dist. From Previous (Ft)**
NETWORK (UTP)-1	INCC-C	BLDG C	Intelligent Network Command Center-Classic	255.83

ND3-ILI C-SP1 L2 DEVICE SCHEDULE			CIRCUIT SETTINGS		TOTALS	
			Max. Circuit Length (Ft)	n/a	Total Circuit Length (Ft)	699.11
			Max. SLC MODULES:	159	Total Used SLC MODULES:	0
			Max. SLC SENSORS:	159	Total Used SLC SENSORS:	29
Circuit Wiring Properties: 'SLC' 16/2 TP FPLP/R (SLC) 16 AWG, 2 Cond. Solid Copper Twisted FPLP/R Addressable Unshielded						
Distance measured using drawn segment lengths with 10.00 % additional length calculated						
Device Label	**Part No.**	**Building**	**Floor**	**Location**	**Description**	**Dist. From Previous (Ft)**
	DTK-2MHLP24B w/DTK-4MB	P101	1		8 Pair / 4 Wire Surge Module w/Base for P/V, NAC, IDC etc.	233.89
L2-D001	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	16.73
L2-D002	ASD-PL3 w/B300-6	P101	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.83
L2-D003	ASD-PL3 w/B300-6	P101	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	10.28
L2-D004	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	0.4
L2-D005	ASD-PL3 w/B300-6	P101	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	21.56
L2-D006	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	1.36
L2-D007	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	20.72
L2-D008	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	11.16
L2-D009	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	6.12
L2-D010	ASD-PL3 w/B300-6	P101	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	22.16
L2-D011	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	8.92
L2-D012	ASD-PL3 w/B300-6	P101	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	1.41
L2-D013	ASD-PL3 w/B300-6	P101	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	19.72
L2-D014	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	1.28
L2-D015	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	17.97
L2-D016	ASD-PL3 w/B300-6	P101	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	0.79
L2-D017	ASD-PL3 w/B300-6	BOOKROOM	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	14.11
L2-D018	ATD-HL2F w/B210LP	BOOKROOM	2		Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	6.31
L2-D019	ASD-PL3 w/B300-6	BOOKROOM	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	20.29
L2-D020	ASD-PL3 w/B300-6	P102	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	40.24
L2-D021	ATD-HL2F w/B210LP				Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	18.01
L2-D022	ASD-PL3 w/B300-6	P102	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	14.53
L2-D023	ATD-HL2F w/B210LP	P104	2		Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	144.96
L2-D024	ASD-PL3 w/B300-6	P104	1		Photoelectric smoke detector, bright white, Velociti w/ 6" Flanged mounting base, bright white	6.21
L2-D025	ATD-L3R w/B300-6	P104	1		Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	9.44
L2-D026	ATD-L3R w/B300-6	P104	1		Thermal heat detector, 135°F rate of rise, bright white, Velociti w/ 6" Flanged mounting base, bright white	8.47
L2-D027	ATD-HL2F w/B210LP	P104	2		Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	1.56
L2-D028	MCS-COP3 w/B224RB-WH				Intelligent multi-criteria photo/CO, bright white, Velociti w/ Intelligent relay base, white, UL listed	16.09
L2-D029	ATD-HL2F w/B210LP	P104	2		Intelligent Addressable 190°F Thermal Detector w/ Flashscan, Plug-in Detector Base	3.59

1 FIRE ALARM DEVICE SCHEDULES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
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FIRE PROTECTION ENGINEERING
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2899 DICKENS ST, UNIT C-01
SAN DIEGO, CA 92106 (858)490-9043

MOUNTAIN EMPIRE UNIFIED SCHOOL DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE MIDDLE SCHOOL SITE MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	09.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

FIRE ALARM DEVICE SCHEDULES

FA-114

AMP1 C-SP1 S1 SPEAKER SCHEDULE

CIRCUIT SETTINGS	
Starting Calculation Voltage:	25
Min. Operational Voltage:	22.3
Max. Circuit Watts:	50
Wire Resistance (Ω/kFt):	3.07
Total Circuit Length (Ft):	632.31
Total Circuit Resistance (Ω):	3.88 Ω

Circuit Wiring Properties: "SPK" 14/2 OAS FPLP/R (SPEAKER) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Shielded

Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Watts	Watts To Amps Conversion	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
S1•01	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.99	0.01	0.04 %
S1•02	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.97	0.03	0.13 %
S1•03	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.91	0.09	0.36 %
S1•04	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.9	0.1	0.41 %
S1•05	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.88	0.12	0.48 %
S1•06	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.82	0.18	0.71 %
S1•07	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.79	0.21	0.82 %
S1•08	ET-1010-W	Speaker WP Wall Mount, White 1w	1	0.04	24.76	0.24	0.97 %
S1•09	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.69	0.31	1.26 %
S1•10	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.68	0.32	1.27 %
S1•11	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.65	0.35	1.40 %
S1•12	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.5w	0.5	0.02	24.62	0.38	1.50 %
S1•13	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.6	0.4	1.59 %
S1•14	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.58	0.42	1.66 %
S1•15	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.54	0.46	1.84 %
S1•16	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.51	0.49	1.94 %
S1•17	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.5	0.5	2.00 %
S1•18	ET-1010-W	Speaker WP Wall Mount, White 1w	1	0.04	24.5	0.5	2.02 %
S1•19 EOL 15k	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.49	0.51	2.02 %

Calculation Methods:

Watts To Amps Conversion = Device Watts / Voltage

Resistance From Previous (Ω) = Wire Resistance (Ω/Ft) x 2 x Dist. From Previous (Ft)

Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)

dB Loss From Previous = 20 × Log (Voltage At Previous Device / Voltage At Device)

Max. dB Loss = 20 × Log (Voltage At Last Device / Start Voltage)

AMP2 C-SP1 S3 SPEAKER SCHEDULE

CIRCUIT SETTINGS	
Starting Calculation Voltage:	25
Min. Operational Voltage:	22.3
Max. Circuit Watts:	50
Wire Resistance (Ω/kFt):	3.07
Total Circuit Length (Ft):	594.26
Total Circuit Resistance (Ω):	3.65 Ω

Circuit Wiring Properties: "SPK" 14/2 OAS FPLP/R (SPEAKER) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Shielded

Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Watts	Watts To Amps Conversion	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
S3•01	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.72	0.28	1.12 %
S3•02	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.71	0.29	1.17 %
S3•03	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.69	0.31	1.24 %
S3•04	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.67	0.33	1.30 %
S3•05	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.65	0.35	1.41 %
S3•06	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.64	0.36	1.45 %
S3•07	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.62	0.38	1.52 %
S3•08	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.6	0.4	1.61 %
S3•09	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.59	0.41	1.65 %
S3•10	ET-1010-W	Speaker WP Wall Mount, White 1w	1	0.04	24.56	0.44	1.75 %
S3•11	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.56	0.44	1.76 %
S3•12	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.55	0.45	1.78 %
S3•13	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.55	0.45	1.81 %
S3•14	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.5w	0.5	0.02	24.53	0.47	1.88 %
S3•15 EOL 15k	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.53	0.47	1.88 %

Calculation Methods:

Watts To Amps Conversion = Device Watts / Voltage

Resistance From Previous (Ω) = Wire Resistance (Ω/Ft) x 2 x Dist. From Previous (Ft)

Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)

dB Loss From Previous = 20 × Log (Voltage At Previous Device / Voltage At Device)

Max. dB Loss = 20 × Log (Voltage At Last Device / Start Voltage)

AMP1 C-SP1 S2 SPEAKER SCHEDULE

CIRCUIT SETTINGS	
Starting Calculation Voltage:	25
Min. Operational Voltage:	22.3
Max. Circuit Watts:	50
Wire Resistance (Ω/kFt):	3.07
Total Circuit Length (Ft):	606.35
Total Circuit Resistance (Ω):	3.72 Ω

Circuit Wiring Properties: "SPK" 14/2 OAS FPLP/R (SPEAKER) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Shielded

Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Watts	Watts To Amps Conversion	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
S2•01	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.98	0.02	0.06 %
S2•02	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.96	0.04	0.15 %
S2•03	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.9	0.1	0.42 %
S2•04	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.89	0.11	0.45 %
S2•05	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.86	0.14	0.54 %
S2•06	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.85	0.15	0.60 %
S2•07	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.82	0.18	0.71 %
S2•08	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.77	0.23	0.93 %
S2•09	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.75	0.25	0.99 %
S2•10	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.7	0.3	1.21 %
S2•11	ET-1010-W	Speaker WP Wall Mount, White 1w	1	0.04	24.66	0.34	1.34 %
S2•12	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.5w	0.5	0.02	24.62	0.38	1.54 %
S2•13	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.6	0.4	1.62 %
S2•14	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.56	0.44	1.75 %
S2•15	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.54	0.46	1.83 %
S2•16	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.53	0.47	1.88 %
	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.51	0.49	1.98 %
S2•18	ET-1010-W	Speaker WP Wall Mount, White 1w	1	0.04	24.5	0.5	2.00 %
S2•19 EOL 15k	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.5	0.5	2.00 %

Calculation Methods:

Watts To Amps Conversion = Device Watts / Voltage

Resistance From Previous (Ω) = Wire Resistance (Ω/Ft) x 2 x Dist. From Previous (Ft)

Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)

dB Loss From Previous = 20 × Log (Voltage At Previous Device / Voltage At Device)

Max. dB Loss = 20 × Log (Voltage At Last Device / Start Voltage)

AMP2 C-SP1 S4 SPEAKER SCHEDULE

CIRCUIT SETTINGS	
Starting Calculation Voltage:	25
Min. Operational Voltage:	22.3
Max. Circuit Watts:	50
Wire Resistance (Ω/kFt):	3.07
Total Circuit Length (Ft):	498.47
Total Circuit Resistance (Ω):	3.06 Ω

Circuit Wiring Properties: "SPK" 14/2 OAS FPLP/R (SPEAKER) 14 AWG, 2 Cond. Solid Copper FPLP/R Analog Shielded

Distance measured using drawn segment lengths with 10.00 % additional length calculated

Device Label	Part No.	Description	Device Watts	Watts To Amps Conversion	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
S4•01	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.75	0.25	0.99 %
S4•02	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.75	0.25	1.00 %
S4•03	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.74	0.26	1.02 %
S4•04	ET-1010-W	Speaker WP Wall Mount, White 1w	1	0.04	24.74	0.26	1.05 %
S4•05	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.73	0.27	1.07 %
S4•06	SPSCWL	Speaker/Strobe Ceiling Mount, White 0.25w	0.25	0.01	24.73	0.27	1.08 %
S4•07 EOL 15k	ET-1010-W	Speaker WP Wall Mount, White 0.25w	0.25	0.01	24.73	0.27	1.08 %

Calculation Methods:

Watts To Amps Conversion = Device Watts / Voltage

Resistance From Previous (Ω) = Wire Resistance (Ω/Ft) x 2 x Dist. From Previous (Ft)

Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)

dB Loss From Previous = 20 × Log (Voltage At Previous Device / Voltage At Device)

Max. dB Loss = 20 × Log (Voltage At Last Device / Start Voltage)

1 FIRE ALARM SPEAKER SCHEDULES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121018 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/25/2022

DAVY ARCHITECTURE
DISABLED VETERAN + EMPLOYEE OWNED
1053 TENTH AVENUE
SAN DIEGO, CA 92101
PHONE 619.238.3811
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SAN DIEGO, CA 92106 (858)490-9043

MOUNTAIN EMPIRE
UNIFIED SCHOOL
DISTRICT

PROJECT NO. 2017

MOUNTAIN EMPIRE
MIDDLE SCHOOL SITE
MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	06.15.22	DSA RESUBMITTAL

DAVY PROJECT No:

DRAWN BY: S. RAWLINGS

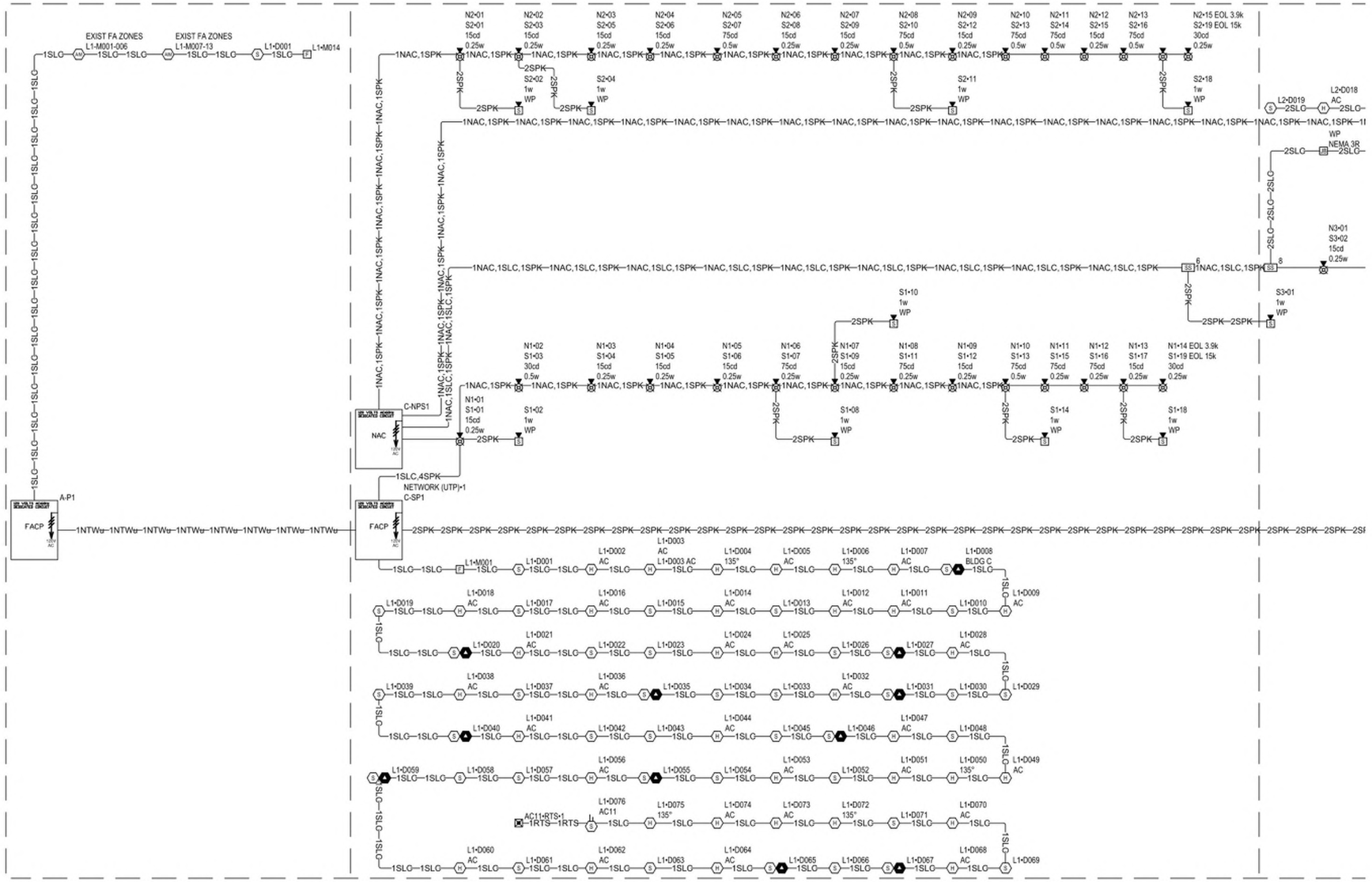
CHECKED BY: J. VELTRE

FIRE ALARM SPEAKER SCHEDULE

FA-115

SEGMENT LABEL SCHEDULE	
SEGMENT ID	LABEL
C12	3 NAC 1 NTWU 2 SPK
C2	1 NAC 1 SPK
C3	1 NTWU
C7	2 NAC 1 NTWU 1 SLC 1 SPK

CABLE AND WIRE LEGEND				
LABEL	PART NO	AWG	RESISTANCE (Ω/KFT)	DESCRIPTION
NAC	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
NAC	12/2 THHN (NAC)	12	1.93	2 COND. SOLID COPPER THHN
NTWU	16/4 TPPLTC FPL (ARCNET)	16	4.89	4 COND. SOLID COPPER TWISTED PLTC FPL ANALOG UNSHIELDED-WET LOCATION/BURIAL RATED
RTS	18/4 FPLP/R (RTS)	18	7.77	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
SLC	16/2 TP FPLP/R (SLC)	16	4.89	2 COND. SOLID COPPER TWISTED FPLP/R ADDRESSABLE UNSHIELDED
SPK	14/2 OAS FPLP/R (SPEAKER)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG SHIELDED
SPKU	14/2 OAS FPLTC	14	3.07	2 COND. SOLID COPPER TYPE TC ANALOG SHIELDED



1 FIRE ALARM RISER DIAGRAM
NTS

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MODERNIZATION

3305 BUCKMAN SPRINGS RD, PINE VALLEY, CA 91962

MARK	DATE	DESCRIPTION
	06.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

FIRE ALARM RISER DIAGRAM

FA-116

SEQUENCE OF OPERATIONS									
INPUTS / OUTPUTS	MANUAL PULL STATION	AREA SMOKE OR HEAT DETECTOR	LOCAL DUCT SMOKE DETECTOR		CARBON MONOXIDE DETECTOR	BUILDING POWER FAIL & LOW BATTERY	SYSTEM TROUBLES	VOICE MESSAGE ACTIVATION	LIVE VOICE OVERRIDE
ANNUNCIATE ALARM CONDITION AT FIRE CONTROL PANEL	●	●			●				
ANNUNCIATE TROUBLE CONDITION AT FIRE CONTROL PANEL						●	●		
ANNUNCIATE SUPERVISORY CONDITION AT FIRE CONTROL PANEL				●				●	●
ACTIVATE AUDIBLE/VISUAL ALARM SIGNAL *	●	●			●			●	
TRANSMIT ALARM SIGNALS TO MONITORING STATION	●	●			●				
TRANSMIT TROUBLE SIGNALS TO MONITORING STATION						●	●		
TRANSMIT SUPERVISORY SIGNALS TO MONITORING STATION			●	●				●	
ACTIVATE AUDIBLE APPLIANCE CIRCUIT	●	●	●					●	●
DISCONNECT/OVERRIDE AUDIO SYSTEM									●

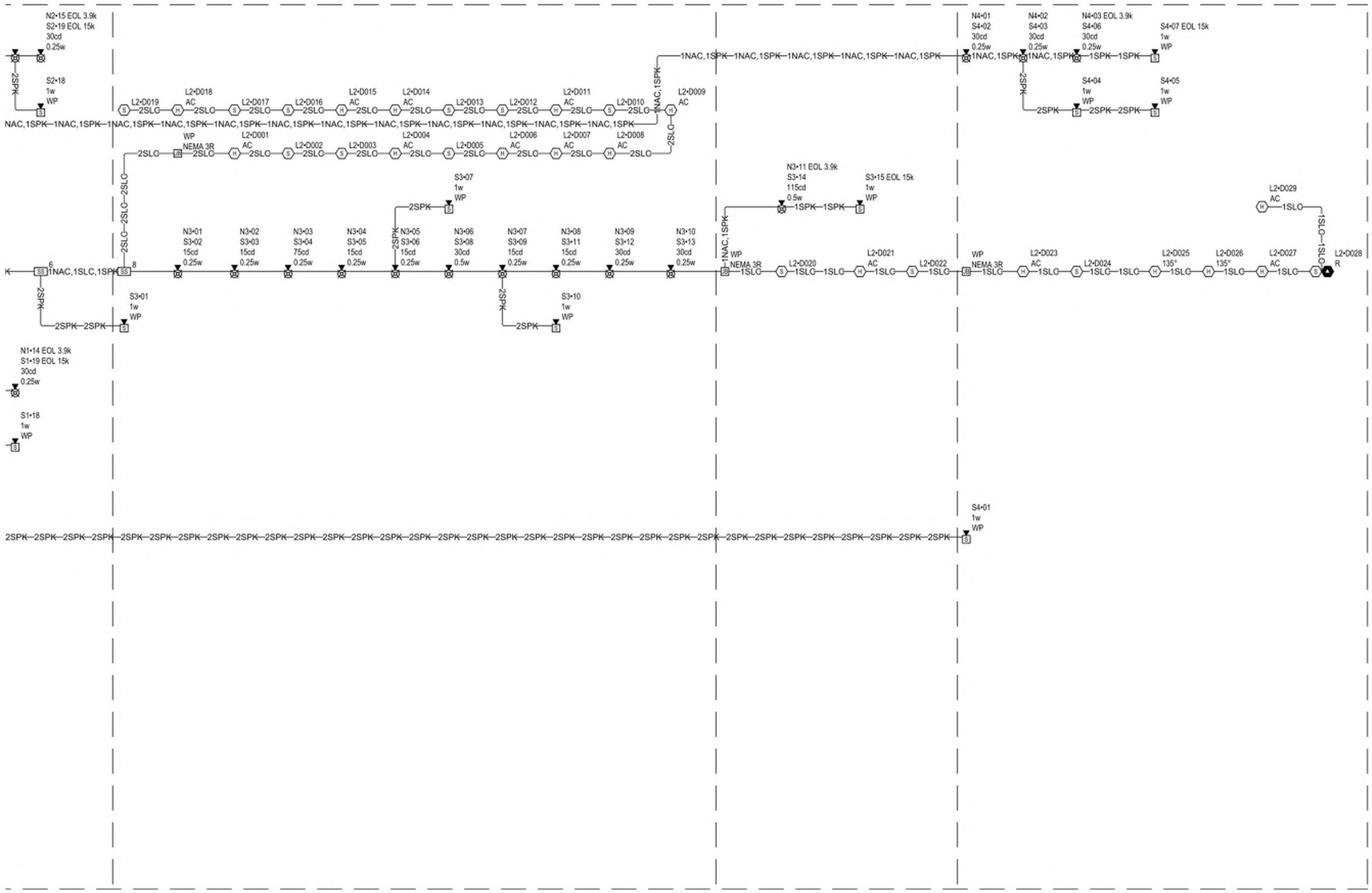
* THE DEFAULT FIRE ALARM VOICE EVACUATION MESSAGE SHALL BE: (TEMPORAL 3 ALERT TONE) "MAY I HAVE YOUR ATTENTION PLEASE. MAY I HAVE YOUR ATTENTION PLEASE. A FIRE EMERGENCY HAS BEEN REPORTED IN THE BUILDING. PLEASE LEAVE THE BUILDING AND REPORT TO THE ASSEMBLY LOCATION. DO NOT USE THE ELEVATORS". <PROVIDE A 2 SECOND PAUSE> "MAY I HAVE YOUR ATTENTION PLEASE." (REPEAT THE MESSAGE)

* THE DEFAULT CO DETECTOR MESSAGE SHALL BE: (TEMPORAL 4 ALERT TONE) "CARBON MONOXIDE HAS BEEN DETECTED IN THE BUILDING; PLEASE LEAVE THE BUILDING BY THE NEAREST EXIT AND REPORT TO THE ASSEMBLY LOCATION."

SEGMENT LABEL SCHEDULE	
SEGMENT ID	LABEL
C12	3 NAC 1 NTWU 2 SPK
C2	1 NAC 1 SPK
C3	1 NTWU
C7	2 NAC 1 NTWU 1 SLC 1 SPK

CABLE AND WIRE LEGEND				
LABEL	PART NO	AWG	RESISTANCE (Ω/KFT)	DESCRIPTION
NAC	14/2 FPLP/R (NAC)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
NAC	12/2 THHN (NAC)	12	1.93	2 COND. SOLID COPPER THHN
NTWU	16/4 TPPLTC FPL (ARCNET)	16	4.89	4 COND. SOLID COPPER TWISTED PLTC FPL ANALOG UNSHIELDED-WET LOCATION/BURIAL RATED
RTS	18/4 FPLP/R (RTS)	18	7.77	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
SLC	16/2 TP FPLP/R (SLC)	16	4.89	2 COND. SOLID COPPER TWISTED FPLP/R ADDRESSABLE UNSHIELDED
SPK	14/2 OAS FPLP/R (SPEAKER)	14	3.07	2 COND. SOLID COPPER FPLP/R ANALOG SHIELDED
SPKU	14/2 OAS FPLTC	14	3.07	2 COND. SOLID COPPER TYPE TC ANALOG SHIELDED

1 FIRE ALARM SEQUENCE OF OPERATION



2 FIRE ALARM RISER DIAGRAM

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MARK	DATE	DESCRIPTION
	06.19.22	DSA RESUBMITTAL

DAVY PROJECT No:
DRAWN BY: S. RAWLINGS
CHECKED BY: J. VELTRE

RISER DIAGRAM & MATRIX

FA-117