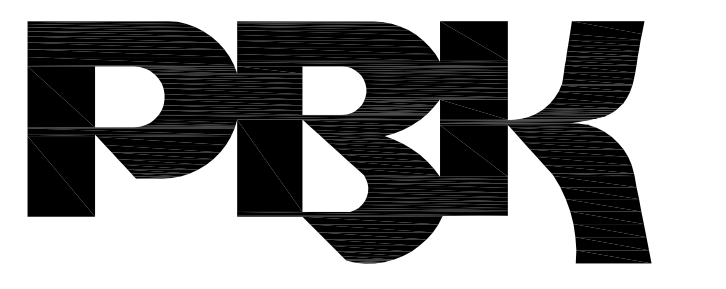


HOLLINGWORTH ELEMENTARY SCHOOL ROWLAND UNIFIED SCHOOL DISTRICT 3003 E. HOLLINGWORTH ST, WEST COVINA, CA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122206 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/29/2022



RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

GENERAL NOTES

PROJECT TEAM

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF WLC ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE, PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

6. FIRE SAFETY DURING CONSTRUCTION

A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.

B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.

C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3312.

D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS, OR FIRE APPLIANCES.

E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

7. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.

8. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

ENVELOPE MANDATORY MEASURES:

A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.

C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, OR OTHERWISE SEALED.

D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).

E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 110.6.

F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE & SHGC IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE & SHGC RATING PROCEDURE.

G. DEMISING R-19 WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).

9. DEFERRED APPROVAL ITEMS:

FABRICATION AND INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF DESIGN AND SIGNED BY A CALIFORNIA REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED FOR REVIEW NO LATER THAN 60 DAYS AFTER THE NOTICE TO PROCEED.

DEFERRED APPROVAL ITEMS FOR THIS PROJECT ARE THE FOLLOWING ITEMS:

A. [NONE]

10. PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:

A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY ANCHOR.

B. APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.

C. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).

D. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

E. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

1. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP-IN ANCHORS ARE ONLY TO BE TESTED WITH THIS METHOD.

2. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS FOR WEDGE ANCHORS: ONE-HALF (1/2) TURN OF THE NUT.

F. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS

G. ALL EXPANSION TYPE ANCHOR BOLTS USED FOR STRUCTURAL APPLICATIONS SHALL BE TESTED. ALL ANCHOR BOLTS OF THE EXPANSION TYPE USED FOR NON-STRUCTURAL APPLICATIONS (LOADED IN EITHER PULL/OUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT LISTED BELOW UNDER TEST VALUES TABLE) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1910A.5

H. ALL BOLTS MUST HAVE ICC/ES APPROVAL.

I. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN CONCRETE SHALL BE ONE OF THE FOLLOWING:

1. HILTI, INC. - KWIK BOLT T2Z: STAINLESS STEEL WEDGE ANCHOR - ICC-ES ESR-4266

2. SIMPSON - STRONGBOLT Z: STAINLESS STEEL WEDGE ANCHOR - ICC-ES ESR-3037

REQUIRED INSTALLATION TORQUE NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE			
	DIA (IN)	TORQUE (FT-LBS)	EMBEDMENT (IN)
KWIK BOLT T2Z ESR-4266	1/4"	6	1 1/2"
	3/8"	30	1 3/4"; 2"; 2 1/2"
	1/2"	40	1 1/2"; 2"; 2 1/2"; 3 1/4"
STRONG BOLT 2 ER-240	5/8"	60	2 3/4"; 3 1/4"; 4"
	3/4"	125	3 1/4"; 3 3/4"; 4 3/4"
	1/4"	4	1 3/4"
	3/8"	20	2 5/8"
	1/2"	35	3 1/2"
	5/8"	55	4 3/8"
	3/4"	100	5 1/4"

H. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN GROUT-FILLED MASONRY SHALL BE ONE OF THE FOLLOWING:

1. HILTI, INC. - KWIK BOLT T2Z: MASONRY ANCHORS - ICC-ES ESR-4561

2. SIMPSON - STRONG BOLT Z: MASONRY ANCHORS - IAPMO UES ER-240

REQUIRED INSTALLATION TORQUE GROUT-FILLED CONCRETE MASONRY			
	DIA (IN)	TORQUE (FT-LBS)	EMBEDMENT (IN)
KWIK BOLT T2Z ESR-4561	1/4"	6	1 1/2"
	3/8"	15	1 1/2"; 2 1/2"
	1/2"	25	2"; 3 1/4"
STRONG BOLT 2 ER-240	5/8"	35	2 3/4"; 4"
	3/4"	50	3 1/4"; 4 3/4"
	1/4"	4	1 3/4"
	3/8"	20	2 5/8"
	1/2"	35	3 1/2"
	5/8"	55	4 3/8"
	3/4"	100	5 1/4"

11. POWDER-DRIVEN CONCRETE FASTENERS:

GENERAL: USE OF POWDER-DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.

A. ALLOWABLE LOADS: IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 90 POUNDS PER ASCE 7, SECTION 13.4.5.

B. TESTING: THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE AROUND THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.

C. ALL POWDER-DRIVEN CONCRETE FASTENERS SHALL BE ONE OF THE FOLLOWING:

1. HILTI, INC.
X-CP 72 PINS - WOOD PLATE - ICC/ES NO. 2379
X-U PINS - STEEL TRACK - ICC/ES NO. 2269

2. ITW RAMSEY/REDHEAD
DRIVE PIN - WOOD PLATE - ICC/ES NO. 2690
DRIVE PIN - STEEL TRACK - ICC/ES NO. 1799

3. SIMPSON STRONG-TIE CO., INC.
PDPWL-300MG - WOOD PLATE - ICC/ES NO. 2138
PDPAL-125 - STEEL TRACK - ICC/ES NO. 2138

12. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

13. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

14. A "DSA CERTIFIED" CLASS 3+RBP PROJECT INSPECTORS EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

15. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

16. WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).

17. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

18. TITLE 24, PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.

19. SUBMIT RFI'S TO DESIGN TEAM IN CASE OF INCONSISTENCIES BETWEEN APPROVED DRAWINGS AND APPROVED SPECIFICATIONS IN THE DESCRIPTIONS OF WORK TO BE DONE, EQUIPMENT TO BE PROVIDED OR MATERIAL TO BE USED. IT SHALL BE THAT THE MORE STRINGENT, THE MORE RESTRICTIVE, THE HIGHER QUALITY, AND THE GREATER QUANTITY OF WORK SHALL APPLY. SUBMIT REVISED DRAWINGS OR SPECIFICATIONS AS RESULT OF SUCH RFI'S TO DSA VIA CDD'S IF REQUIRED BY IR A-6.

20. ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.

21. THE PROJECT INSPECTION (PI) SHALL WITNESS AND VERIFY GROUNDING.

22. ALL SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING INDICATED ON THESE DRAWINGS WAS DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ACCESSIBILITY STANDARDS OF THE CALIFORNIA BUILDING CODE, (CBC) TITLE 24, PART 2, CHAPTER 11B OF THE CALIFORNIA CODE OF REGULATIONS (CCR). STRICT EXECUTION OF THE SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD A CONDITION PRESENT ITSELF THAT WOULD RESULT IN AN INSTALLATION OTHER THAN WHAT IS INDICATED IN THESE DRAWINGS, WLC ARCHITECTS, INC. SHALL BE NOTIFIED IN WRITING AND A COMPLIANT RESOLUTION WILL BE FORMULATED.

23. 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](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.

PROJECT ADDRESS
HOLLINGWORTH ELEMENTARY SCHOOL
3003 E HOLLINGWORTH ST.
WEST COVINA, CA 92792
PHONE: 909-598-3661 FAX: 909-468-9581

OWNER
ROWLAND UNIFIED SCHOOL DISTRICT
1830 SOUTH NOGALES STREET
ROWLAND HEIGHTS, CA 91748
PHONE: 626-854-8300 FAX: 626-852-8302

ARCHITECT
PBK
8163 ROCHESTER AVE., SUITE 100
RANCHO CUCAMONGA, CA 91730
PHONE: 909-987-0909 FAX: 909-980-9980

CIVIL ENGINEER
SEABOARD ENGINEERING COMPANY
1415 E. COLORADO STREET, SUITE 205
GLENDALE, CA. 91205
PHONE: 310-277-7337 FAX: 818-550-0339

ELECTRICAL ENGINEER
LEAF ENGINEERS
8163 ROCHESTER AVE., SUITE 100
RANCHO CUCAMONGA, CA 91730
PHONE: 909-987-0909 FAX: 909-980-9980

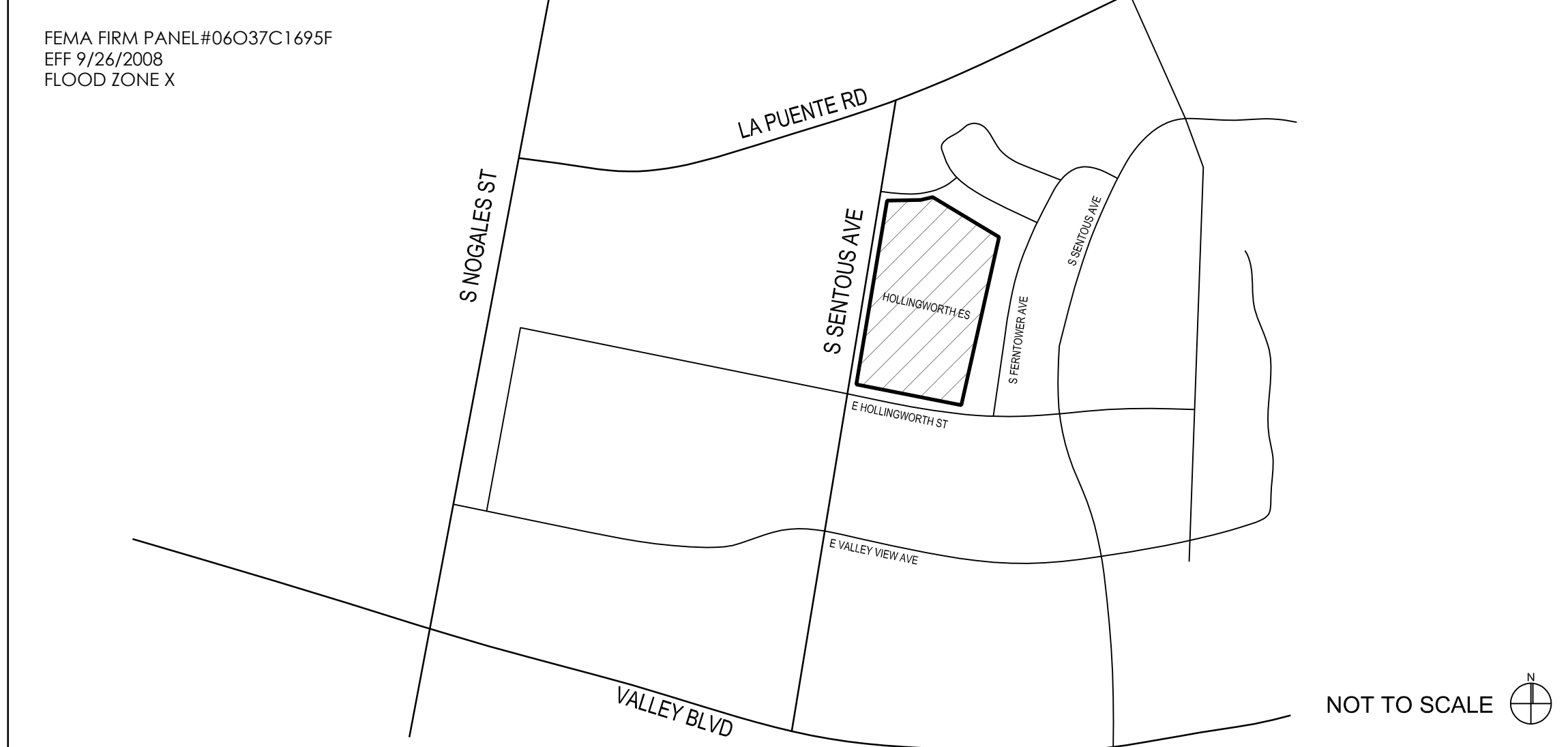
MECHANICAL / PLUMBING ENGINEER
LEAF ENGINEERS
8163 ROCHESTER AVE., SUITE 100
RANCHO CUCAMONGA, CA 91730
PHONE: 909-987-0909 FAX: 909-980-9980

STATEMENT OF GENERAL CONFORMANCE*	
APPLICATION NO. 03-122206 *THE DRAWINGS LISTED DSA APPROVED RELOCATABLES ON THE DRAWING SHEET INDEX HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR:	
1. THE DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.	
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTANCE 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 SECTION 17302 AND 91138 OF THE EDUCATION CODE AND SECTIONS 4306, 4341 AND 4344 OF TITLE 24, PART 1, TITLE 24, PART 1, SECTION 4-317 (B).	
I CERTIFY THAT ALL PORTABLE DRAWINGS LISTED ON THE DRAWING SHEET INDEX	_____ (SIGNATURE) _____ (DATE)
<input checked="" type="checkbox"/> ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT	_____ (SIGNATURE) _____ (DATE)
<input checked="" type="checkbox"/> HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS	_____ (SIGNATURE) _____ (DATE)
ARCHITECT OR ENGINEER DELEGATED TO BE IN RESPONSIBLE CHARGE	ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY GENERAL FOR PORTION OF THIS PORTION OF THE WORK
Jim DiCamillo	
PRINT NAME	PRINT NAME
C-15937	11.30.23
LICENSE NUMBER	EXPIRATION

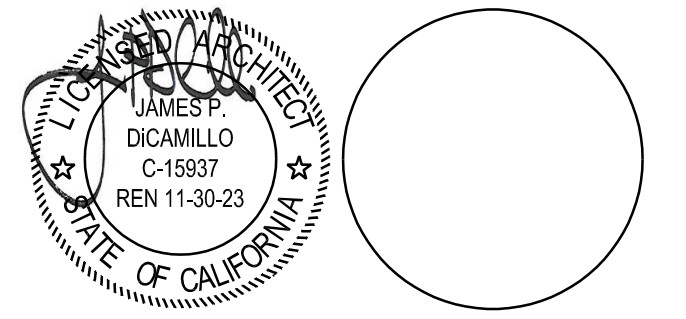
SCOPE OF WORK DESCRIPTION

NEW CONSTRUCTION OF MODULAR RESTROOM BUILDING (RIGID STEEL FRAME CONSTRUCTION) WITH CONCRETE FOUNDATION AND PLAYGROUND EQUIPMENT ALONG WITH SITE DRAINAGE AND ACCESSIBILITY IMPROVEMENT.

VICINITY MAP



HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
ROWLAND UNIFIED SCHOOL DISTRICT
3003 E. HOLLINGWORTH ST, WEST COVINA, CA



NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN: SA		CHECKED: JPD	
DATE: 06/24/2022		SCALE: AS NOTED	
PROJECT NUMBER: W2105400AR			
GENERAL NOTES & PROJECT DIRECTORY			
DRAWING NUMBER:			A0.1

DRAWING INDEX

DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION
ARCHITECTURAL			
A0.1	GENERAL NOTES / PROJECT DIRECTORY	E0.0	ELECTRICAL SYMBOLS & ABBREVIATIONS
A0.2	DRAWING INDEX AND DRAFTING SYMBOLS	E0.1	ELECTRICAL TITLE 24
A0.4	ARCHITECTURAL DRAWING ABBREVIATIONS	E1.1	ELECTRICAL SITE PLAN
A0.5	CODE ANALYSIS	E1.3	ELECTRICAL ENLARGED SITE AND FLOOR PLAN
A1.0	DEMOLITION SITE PLAN	E4.1	ELECTRICAL SINGLE LINE DIAGRAM
A1.1	SITE PLAN	E5.1	ELECTRICAL DETAILS AND SCHEDULES
A1.2	ENLARGED SITE PLAN		
A1.3	ENLARGED SITE AND FLOOR PLAN		
2.1	MISC DETAILS		
FIRE ALARM			
		FA0.0	FIRE ALARM SYMBOLS & ABBREVIATIONS
		FA1.1	FIRE ALARM SITE PLAN
		FA1.3	FIRE ALARM ENLARGED FLOOR PLAN
		FA6.1	FIRE ALARM RISER, CALC & DETAILS
CIVIL			
C-1	TITLE PAGE		
C-2	PARTIAL SITE AND TOPOGRAPHIC SURVEY		
C-3	SITE PAVING AND DRAINAGE PLAN		
C-4	SITE PAVING AND DRAINAGE PLAN		
C-5	PAVING DETAILS	T0.0	TECHNOLOGY SYMBOLS & ABBREVIATIONS
C-6	WATER AND SEWER PLAN	T1.1	TECHNOLOGY SITE PLAN
		T1.2	TECHNOLOGY ENLARGED FLOOR PLAN

MODULAR BUILDING

ARCHITECTURE		STRUCTURAL	
<input checked="" type="checkbox"/> TS	TITLE SHEET	<input checked="" type="checkbox"/> S0.0	STEEL MEMBER PROPERTIES
<input checked="" type="checkbox"/> TS-2	SHEET INDEX	<input type="checkbox"/> S1.0	CONCRETE FOUNDATION PLAN (50 PSF LIVE LOAD)
<input checked="" type="checkbox"/> TS-2-M	SHEET INDEX	<input type="checkbox"/> S1.1	CONCRETE FOUNDATION PLAN (50 PSF LIVE LOAD +15 PSF PARTITION LOAD)
<input checked="" type="checkbox"/> D1	FORM DSA-103	<input type="checkbox"/> S1.2	CONCRETE FOUNDATION PLAN (100 PSF LIVE LOAD)
<input checked="" type="checkbox"/> N1.0	GENERAL NOTES & SPECIFICATIONS	<input type="checkbox"/> S1.3	CONCRETE FOUNDATION PLAN (150 PSF LIVE LOAD)
<input checked="" type="checkbox"/> N1.0A	BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS	<input checked="" type="checkbox"/> S1.4	CONCRETE FOUNDATION DETAILS
<input checked="" type="checkbox"/> N2.0	GENERAL NOTES & SPECIFICATIONS	<input checked="" type="checkbox"/> S1.5	CONCRETE FOUNDATION DETAILS
<input checked="" type="checkbox"/> N3.0	TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES	<input checked="" type="checkbox"/> S1.6A	STANDARD ANCHORAGE FOUNDATION DETAILS
<input checked="" type="checkbox"/> N3.0-M	TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES	<input type="checkbox"/> S1.6B	UPGRADED ANCHORAGE FOUNDATION DETAILS
<input checked="" type="checkbox"/> N4.0	ACCESSIBILITY STANDARDS AND DETAILS	<input checked="" type="checkbox"/> S1.7	CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN FOOTINGS
<input checked="" type="checkbox"/> N5.0	MULTIPLE FLOOR PLAN CONFIGURATIONS	<input type="checkbox"/> S3.0	FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR
<input type="checkbox"/> N5.1	MULTIPLE FLOOR PLAN CONFIGURATIONS	<input type="checkbox"/> S3.1	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/ BH-DECK OPTION (100 PSF MAX FLOOR L.L.)
<input checked="" type="checkbox"/> EN.1	ENERGY CALCULATIONS	<input checked="" type="checkbox"/> S3.3	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/ 3WH-DECK OPTION (150 PSF MAX FLOOR L.L.)
<input checked="" type="checkbox"/> EN.2	ENERGY CALCULATIONS	<input checked="" type="checkbox"/> S4.1	ROOF FRAMING PLAN & DETAILS - ENCLOSED SOFFIT
<input checked="" type="checkbox"/> EN.3	ENERGY CALCULATIONS	<input checked="" type="checkbox"/> S4.2	ROOF FRAMING DETAILS
<input checked="" type="checkbox"/> EN.4	ENERGY CALCULATIONS	<input type="checkbox"/> S4.3	ROOF FRAMING DETAILS, ROOF SHEATHING OPTION
<input checked="" type="checkbox"/> EN.5	ENERGY CALCULATIONS	<input checked="" type="checkbox"/> S5.0	MOMENT FRAME ELEVATIONS & DETAILS
<input checked="" type="checkbox"/> EN.6	ENERGY CALCULATIONS	<input checked="" type="checkbox"/> S5.1	MOMENT FRAME CONNECTION DETAILS
<input checked="" type="checkbox"/> EN.7	ENERGY CALCULATIONS	<input type="checkbox"/> S5.4A	OPTIONAL SIDE WALL CANOPY PLAN & DETAILS
<input checked="" type="checkbox"/> EN.8	ENERGY CALCULATIONS	<input checked="" type="checkbox"/> S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
<input checked="" type="checkbox"/> EN.9	ENERGY CALCULATIONS	<input checked="" type="checkbox"/> S8.1	WALL FRAMING DETAILS - WOOD STUDS
<input checked="" type="checkbox"/> EN.10	ENERGY CALCULATIONS	<input type="checkbox"/> S9.0	WALL FRAMING ELEVATIONS & SCHEDULES - METAL STUD OPTION
<input type="checkbox"/> A1.0	TYPICAL FLOOR PLAN	<input type="checkbox"/> S9.1	WALL FRAMING DETAILS - METAL STUD OPTION
<input type="checkbox"/> A1.1	TYPICAL FLOOR PLAN w/ SOLATUBE OPTION	<input type="checkbox"/> S9.2	TYPICAL METAL STUD FRAMING DETAILS & PROPERTIES
<input checked="" type="checkbox"/> A1.2	RESTROOM FLOOR PLAN OPTIONS		
<input checked="" type="checkbox"/> A1.2-M	RESTROOM FLOOR PLAN		
<input checked="" type="checkbox"/> A2.0	TYPICAL ROOF PLAN		
<input checked="" type="checkbox"/> A2.2	TYPICAL ROOF DETAILS - METAL STANDING SEAM		
<input type="checkbox"/> A2.5	TYPICAL ROOF DETAILS - SINGLY-PLY OR BUILT-UP ROOFING		
<input type="checkbox"/> A4.0	INTERIOR ELEVATIONS - TYPICAL CLASSROOM		
<input checked="" type="checkbox"/> A4.1	INTERIOR ELEVATIONS - RESTROOM OPTIONS		
<input checked="" type="checkbox"/> A4.1-M	INTERIOR ELEVATIONS - RESTROOM OPTIONS		
<input type="checkbox"/> A5.2	TYPICAL EXTERIOR ELEVATIONS - STUCCO OPTION		
<input type="checkbox"/> A5.3	TYPICAL ARCHITECTURAL DETAILS - STUCCO OPTION		
<input type="checkbox"/> A5.3A	DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - STUCCO OPTION		
<input type="checkbox"/> A5.4	TYPICAL EXTERIOR ELEVATIONS - LAP SIDING OPTION		
<input type="checkbox"/> A5.5	TYPICAL ARCHITECTURAL DETAILS - LAP SIDING OPTION		
<input type="checkbox"/> A5.5A	DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - LAP SIDING OPTION		
<input checked="" type="checkbox"/> A5.6	TYPICAL EXTERIOR ELEVATIONS - SYNTHETIC STUCCO OPTION		
<input checked="" type="checkbox"/> A5.6-M	EXTERIOR ELEVATIONS - SYNTHETIC STUCCO OPTION		
<input checked="" type="checkbox"/> A5.7	TYPICAL ARCHITECTURAL DETAILS - SYNTHETIC STUCCO OPTION		
<input type="checkbox"/> A5.7A	DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - SYNTHETIC STUCCO OPTION		
<input type="checkbox"/> A7.0	ARCHITECTURAL EXTERIOR FINISH OPTIONS DETAILS		
<input checked="" type="checkbox"/> A7.1	MISCELLANEOUS ARCHITECTURAL DETAILS		
<input checked="" type="checkbox"/> A7.3	TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS		
<input type="checkbox"/> A8.0	1-HR FIRE RATED CONSTRUCTION DETAILS		

PLUMBING

<input checked="" type="checkbox"/> P1.0	RESTROOM OPTIONS, PLUMBING PLAN, & FIXTURE SCHEDULE
<input checked="" type="checkbox"/> P1.0-M	RESTROOM OPTIONS, PLUMBING PLAN, & FIXTURE SCHEDULE
<input checked="" type="checkbox"/> P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
<input checked="" type="checkbox"/> P3.0	PLUMBING ISOMETRIC DRAWINGS

DRAFTING SYMBOL LEGEND

	NEW / REQUIRED POINT ELEVATION (PLAN)		REVISION 3 = REVISION NUMBER
	EXISTING POINT ELEVATION (PLAN)		EQUIPMENT IDENTIFICATION 123 = EQUIPMENT NUMBER
	SURFACE DRAINAGE ARROW INDICATES DIRECTION OF FLOW		GLAZED OPENING OR WINDOW TYPE NUMERICAL DESIGNATION = GLAZED OPENING ALPHABETICAL DESIGNATION = WINDOW TYPE
	SITE REFERENCE GRID WORK POINT COORDINATES		DOOR IDENTIFICATION A = BUILDING DESIGNATION 2 = FLOOR NUMBER 50 = DOOR NUMBER
	PROJECT NORTH		REFERENCE NOTE IDENTIFICATION 06 = DIVISIONAL PREFIX 54 = NOTE NUMBER
	COLUMN REFERENCE GRIDS B,23 = COLUMN DESIGNATION		WALL IDENTIFICATION C = WALL TYPE DESIGNATION - REF SCHEDULE 4 = NOMINAL STUD OR MASONRY SIZE 2 = FIRE RATING IN HOURS B = ADDITIONAL REMARKS - REF SCHEDULE * = OPTIONAL CHARACTER
	ELEVATION 4 = ELEVATION DESIGNATION A5.1 = REFERENCE DRAWING NUMBER ARROW INDICATES DIRECTION OF VIEW		TOILET ACCESSORY IDENTIFICATION 3 = ACCESSORY NUMBER - REF SCHEDULE A = ACCESSIBLE WHEN NOTED
	BUILDING SECTION C = SECTION DESIGNATION A5.2 = REFERENCE DRAWING NUMBER ARROW INDICATES DIRECTION OF VIEW		CABINET DESIGNATION 100 = W/ CABINET NUMBER M = MODIFIED AS NOTED L = LOCK WHEN NOTED
	WALL SECTION E = SECTION DESIGNATION A5.3 = REFERENCE DRAWING NUMBER ARROW INDICATES DIRECTION OF VIEW		LEVEL LINE, CONTROL POINT FFE 0'-0" = ELEVATION
	DETAIL 10 = DETAIL DESIGNATION 8.3 = REFERENCE DRAWING NUMBER		STAIR DIRECTION SYMBOL NUMBER AND SIZE OF TREADS AND RISERS IN INCHES
	AREA IDENTITY/ CODE ANALYSIS LOBBY = ROOM NAME E1 = OCCUPANCY GROUP 6 = SPACE USE - REF SPACE USE SCHEDULE 900 = FLOOR AREA - SQUARE FEET 45 = OCCUPANT LOAD (CBC TABLE 1004.5) * = OCCUPANT LOAD SIGN REQUIRED WHEN NOTED - (CBC SEC 1004.9) REF SIGNAGE SCHEDULE 76 = ACCUMULATIVE OCCUPANT LOAD OF SPACE		MATCH LINE AND AREA DESIGNATOR SHADED PORTION IS THE SIDE CONSIDERED
	AREA IDENTITY & FINISH REFERENCE/ PLAN LOBBY = ROOM NAME A230 = AREA IDENTITY A - BUILDING OR AREA DESIGNATION 2 - FLOOR NUMBER 30 - ROOM NUMBER 9/A7.6 = INTERIOR ELEVATION DESIGNATION AND DRAWING NUMBER WHERE ELEVATION IS SHOWN A1,B2,C3,D4 = ROOM MATERIAL CODE/ FINISH A1 = FLOOR AND BASE FINISH B2 = WALL MATERIAL / FINISH C3 = CEILING MATERIAL / FINISH D4 = WAINSCOT MATERIAL / HEIGHT * = DESIGNATES SPECIAL CONDITION, REFERENCE INTERIOR ELEVATION OR REFLECTED CEILING PLAN FOR DESCRIPTION 10-0 = CEILING HEIGHT IN FEET & INCHES 1,2,3, OR 4 = ELEVATION IDENTITY NUMBER- NUMBER POINTS TO WALL SHOWN IN ELEVATION		BREAKS OF BUILDING COMPONENTS
	AREA IDENTITY/ PLAN LOBBY = ROOM NAME A230 = AREA IDENTITY A - BUILDING OR AREA DESIGNATION 2 - FLOOR NUMBER 30 - ROOM NUMBER 9/A7.6 = INTERIOR ELEVATION DESIGNATION AND DRAWING NUMBER WHERE ELEVATION IS SHOWN 1,2,3, OR 4 = ELEVATION IDENTITY NUMBER- NUMBER POINTS TO WALL SHOWN IN ELEVATION		

DRAWING INDEX CODE

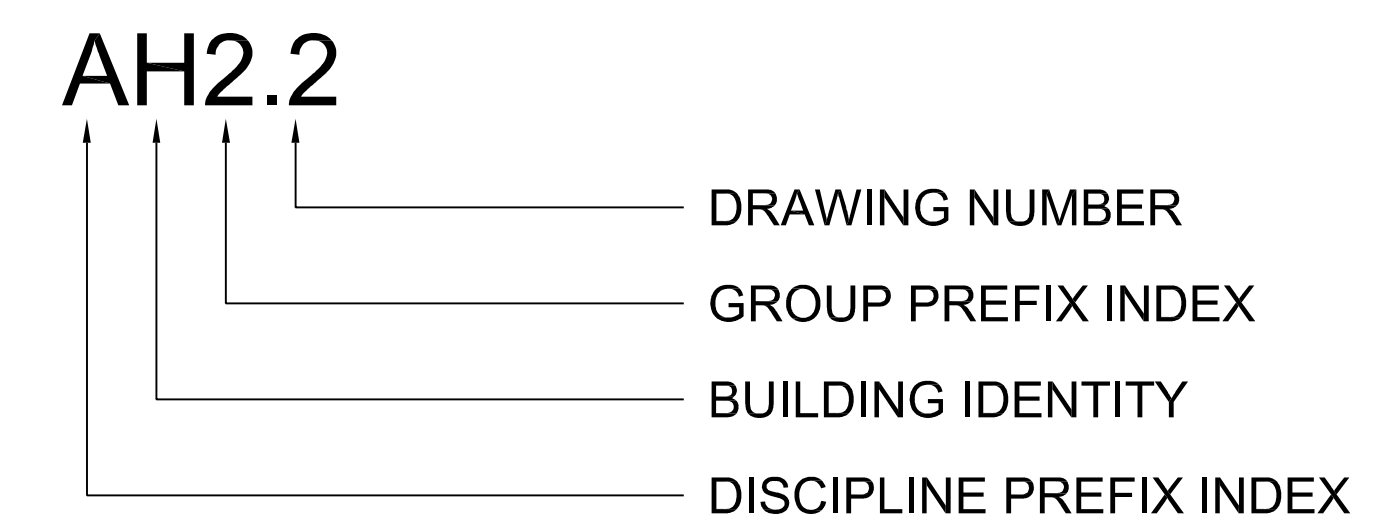
DRAWING DISCIPLINE PREFIX INDEX

- A. ARCHITECTURAL
- C. CIVIL
- D. INTERIOR DESIGN / FURNITURE
- E. ELECTRICAL
- F. FIRE PROTECTION / SPRINKLER SYSTEM
- G. GRAPHICS
- H. HAZARDOUS MATERIALS
- K. DIETARY / FOOD SERVICE
- L. LANDSCAPING
- M. MECHANICAL
- P. PLUMBING
- S. STRUCTURAL
- T. TELECOMMUNICATIONS

DRAWING GROUP PREFIX INDEX

- 0. GENERAL INFORMATION
- 1. SITE PLANS
- 2. FLOOR PLANS
- 3. REFLECTED CEILING PLANS
- 4. ROOF PLANS
- 5. EXTERIOR ELEVATIONS / SECTIONS
- 6. ENLARGED FLOOR PLANS
- 7. INTERIOR ELEVATIONS
- 8. CIRCULATION / STAIRS / ELEVATORS
- 9. 3D REPRESENTATIONS

DRAWING NUMBER CODE

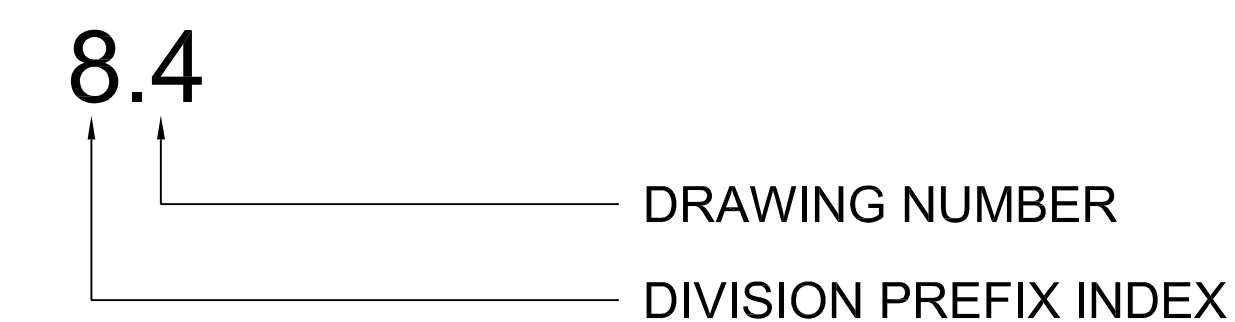


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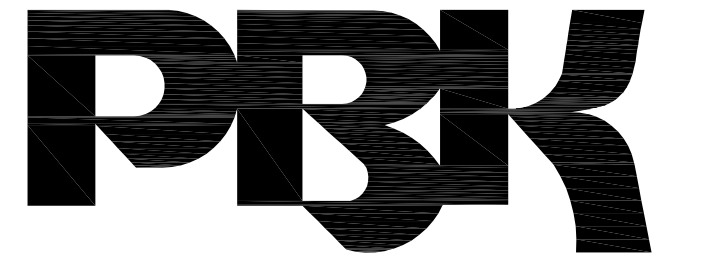
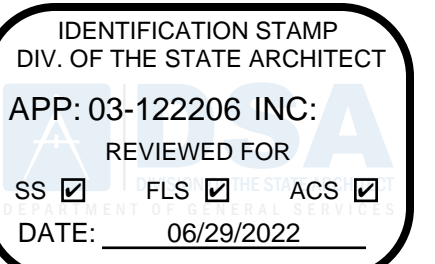
ARCHITECTURAL DETAIL DRAWING PREFIX INDEX

- DIVISION 1 - GENERAL REQUIREMENTS
- DIVISION 2 - SITE WORK
- DIVISION 3 - CONCRETE
- DIVISION 4 - MASONRY
- DIVISION 5 - METALS
- DIVISION 6 - WOOD AND PLASTICS
- DIVISION 7 - THERMAL AND MOISTURE PROTECTION
- DIVISION 8 - DOORS AND WINDOWS
- DIVISION 9 - FINISHES
- DIVISION 10 - SPECIALTIES
- DIVISION 11 - EQUIPMENT
- DIVISION 12 - FURNISHINGS
- DIVISION 13 - SPECIAL CONSTRUCTION
- DIVISION 14 - CONVEYING SYSTEMS
- DIVISION 15 - MECHANICAL- NOT USED
- DIVISION 16 - ELECTRICAL- NOT USED

DETAIL DRAWING CODE



THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 16 DIVISION GROUPING SYSTEM OF MASTER FORMAT AS PUBLISHED BY THE CONSTRUCTION SPECIFICATION INSTITUTE (CSI) AND SHALL NOT BE SOLELY REPRESENTATIVE OF REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING NOT USED OR OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.



RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
ROWLAND UNIFIED SCHOOL DISTRICT
3003 E. HOLLINGWORTH ST., WEST COVINA, CA



NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: S/LC	CHECKED: J/LC
DATE: 04/21/2022	SCALE: AS SHOWN
PROJECT NUMBER: W2105400AR	

DRAWING INDEX & DRAFTING SYMBOLS
DRAWING NUMBER: A0.2

ARCHITECTURAL DRAWING ABBREVIATIONS

SYMBOLS

&	AND
∠	ANGLE
@	AT
CL	CENTERLINE
C	CHANNEL
∅	DIAMETER OR ROUND
(E)	EXISTING
(N)	NEW
d	PENNY (NAILS)
⊥	PERPENDICULAR
PL	PLATE
#	POUND OR NUMBER

A/C	AIR CONDITIONING
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABAN	ABANDON
ABC	AGGREGATE BASE COURSE
ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACC	ACCESS(IBLE)
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADDM	ADDDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJC	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANC	ANCHOR, ANCHORAGE
APLD	APPLIED
APPRX	APPROXIMATE
ARCH	ARCHITECTURAL
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
ASSY	ASSEMBLY
ASYM	ASYMMETRICAL
AWG	AMERICAN WIRE GAGE

BC	BACK OF CURB
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW CLG	BELOW CEILING
BLW FFLR	BELOW FINISH FLOOR
BLW	BELOW
BM	BENCH MARK
BN	BOUNDARY NAILING
BOT	BOTTOM
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BRS	BRASS
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
B7WN	BETWEEN
BUR	BUILT UP ROOFING
BW	BOTH WAYS

C&G	CURB AND GUTTER
CAB	CABINET
CAD	CADMIUM
CB	CATCH BASIN
CBB	CEMENTITIOUS BACKER BOARD
CEM	CEMENT
CER	CERAMIC
CFCI	CONTRACTOR FURNISH CONTRACTOR INSTALLED
CFLG	COUNTERFLASHING
CFOI	CONTRACTOR FURNISH OWNER INSTALLED
CG	CORNER GUARD
CHBD	CHALKBOARD
CHFR	CHAMFER
CI	CAST IRON
CIR	CIRCLE
CIRC	CIRCULAR, CIRCUMFERENCE
CJRC	CONSTRUCTION JOINT
CL	CHAIN LINK
CLG	CEILING
CLJ	CONTROL JOINT
CLL	CONTRACT LIMIT LINE
CLOS	CLOSURE
CLR	CLEAR(ANCE)
CLRM	CLASSROOM
CMPS	COMPOSITION
CMU	CONCRETE MASONRY UNIT
CNCL	CONCEALED
CNR	CORNER
CNTR	COUNTER
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS (ATION)
CONTR	CONTRACT(OR)
COORD	COORDINATE
CORR	CORRIDOR
CPR	COPPER
CPRS	COMPRESS(ED), (ION), (IBLE)
CPT	CARPET(ED)
CRS	COLD ROLLED STEEL
CSG	CASING
CSK	COUNTERSUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTG	COATING
CTR	CENTER

CUFT	CUBIC FOOT
CJN	CUBIC INCH
CUST	CUSTODIAN
CUYD	CUBIC YARD

D	DRAIN
DBL	DOUBLE
DA	DOUBLE ACTING
DOBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DMPPF	DAMP/PROOFING
DMT	DEMOUNTABLE
DN	DOWN
DR	DOOR
DRB	DRAINBOARD
DRLV	DOOR LOUVER
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DT	DRAIN TILE
DVTL	DOVETAIL
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER

E	EAST
EA	EACH
EAR	EXHAUST AIR REGISTER
EB	EXPANSION BOLT
EE	EACH END
EF	EACH FACE
EFS	EXTERIOR FINISH SYSTEM
EHD	ELECTRIC HAND DRYER
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EXPANDED METAL
EMER	EMERGENCY
EN	EDGE NAILING
ENCL	ENCLOSE(URE)
ENGR	ENGINEER
ENTR	ENTRANCE
EP	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCUTCHEON
ESCL	ESCALATOR
ESMT	EASEMENT
EW	EACH WAY
EWIC	ELECTRIC WATER COOLER
EWH	ELECTRICAL WATER HEATER
EWS	EYE WASH STATION
EXC	EXCAVATE
EXG	EXISTING
EXH	EXHAUST
EXP	EXPOSED
EXPN	EXPANSION
EXS	EXTRA STRONG
EXT	EXTERIOR

F/F	FACE TO FACE
FA	FIRE ALARM
FAB	FABRIC
FBD	FIBERBOARD
FBRK	FIRE BRICK
FCBRK	FACE BRICK
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FFEL	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LINE
FGL	FIBERGLASS
FHC	FIRE HOSE CABINET
FHMS	FLATHEAD MACHINE SCREW
FHWS	FLATHEAD WOOD SCREW
FIN	FINISHED
FJT	FLUSH JOINT
FLASH	FLASH(ING)
FLDG	FOLDING
FLG	FLOORING
FLR	FLOOR
FLUOR	FLUORESCENT
FN	FIELD NAILING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOG	FACE OF GRID
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FPL	FIREPLACE
FRFP	FIREPROOF(ING)
FR	FRAME(D), (ING)
FRG	FIBER REINFORCED GYPSUM
FRGL	FIRE RESISTIVE GLAZING
FRP	FIBERGLASS REINFORCED PLASTIC
FRTD	FIRE RATED
FRTW	FIRE RETARDANT TREATED WOOD
FRZ	FREEZER
FS	FINISH SURFACE
FSTN	FASTEN, FASTENER
FT	FOOT OR FEET
FTG	FOOTING
FURG	FURRED (ING)
FUT	FUTURE
FWC	FABRIC WALL COVERING

GA	GAGE
GAL	GALLON

GALV	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GI	GALVANIZED IRON
GL	GLASS
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GLZCMU	GLAZED CONCRETE MASONRY UNITS
GND	GROUND
GPC	GYPSUM PLASTER CEILING
GR LN	GRADE LINE
GR BM	GRADE BEAM
GR	GRADE, (ING)
GRBD	GARBAGE DISPOSER
GSB	GYPSUM SHEATHING BOARD
GSS	GALVANIZED STEEL SHEET
GST	GLAZED STRUCTURAL TILE
GT	GROUT
GVL	GRAVEL
GYP	GYPSUM

HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAVY DUTY
HD JT	HEAD JOINT
HDAS	HEADED ANCHOR STUD
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HEX	HEXAGONAL
HGR	HANGER
HLDN	HOLD DOWN
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMDF	HOLLOW METAL DOOR AND FRAME
HMF	HOLLOW METAL FRAME
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HWH	HOT WATER HEATER

ID	INSIDE DIAMETER
INCL	INCLUDE(D), (ING)
INSTL	INSTALL
INSUL	INSULATE(D), (ION)
INT	INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE

JAN	JANITOR
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE(D)
LAV	LAVATORY
LBL	LABEL
LBR	LUMBER
LBS	POUND
LCT	LINOLEUM COMPOSITE TILE
LDR	LEADER
LG	LENGTH
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LKNT	LOCKNUT
LKR	LOCKER
LKWASH	LOCKWASHER
LH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMESTONE
LANDSCP	LANDSCAPE(D)
LNTL	LINTEL
LP	LIGHTPROOF
LPT	LOW POINT
LT	LIGHT
LWT	LIGHT WEIGHT
LVL	LEVEL(ER)
LVR	LOUVER
LVT	LUXURY VINYL TILE
LW	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE

MAINT	MAINTAIN(ANCE)
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MEDICINE CABINET
MCB	METAL CORNER BEAD
MDO	MEDIUM DENSITY OVERLAID
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFD	METAL FLOOR DECKING
MFR	MANUFACTURE(ER)
MH	MANHOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
ML	METAL LATH
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODULE (AR)
MIR	MOISTURE RESISTANT
MRB	MARBLE
MRD	METAL ROOF DECKING
MS	MACHINE SCREW
MTD	MOUNTED
MTL	METAL

MTR	MORTAR
MULL	MULLION
MVBL	MOVABLE
MWP	MEMBRANE WATER PROOFING
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NCOMBL	NONCOMBUSTIBLE
NE	NOT EXCEEDING
NF	NEAR FACE
NIC	NOT IN CONTRACT
NLB	NON-LOAD BEARING
NM	NONMETALLIC
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NS	NEAR SIDE
NTS	NOT TO SCALE

O/O	OUT TO OUT
OA	OVERALL
OBS	OBSCURE
OCS	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED - CONTRACTOR INSTALLED
OFF	OFFICE
OFI	OWNER FURNISHED - OWNER INSTALLED
OF	OUTSIDE FACE OF STUD
OHMS	OHMS
OHWS	OVALHEAD WOOD SCREW
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPQ	OPAQUE
OPR	OPERABLE
ORD	OVERFLOW ROOF DRAIN
OVFL	OVERFLOW
OVHD	OVERHEAD

PAR	PARALLEL
PAT	PATTERN
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PORTLAND CEMENT
PCC	PRECAST CONCRETE
PCP	PORTLAND CEMENT PLASTER
PE	PEDESTAL
PERF	PERFORATE(D)
PERIM	PERIMETER
PERP	PERPENDICULAR
PEGBD	PEGBOARD
PH	PHASE
PHS	PHILLIPS HEAD SCREW
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLB	PLUMBING
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNT	PAINT(ED)
POL	POLISHED
POLY	POLYETHYLENE
PORC	PORCELAIN
PORT	PORTABLE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PREFMD	PREFORMED
PRKG	PARKING
PRML	PREMOLDED
PROJ	PROJECT
PROP	PROPERTY
PSCONC	PRESTRESSED CONCRETE
PT	POINT
PTCONC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYL CHLORIDE
PVG	PAVE(D), (ING)
PVMT	PAVEMENT

QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTF	QUARRY TILE FLOOR
QTR	QUARTER
QTY	QUANTITY
R	RISER
RA	RETURN AIR
RAB	RABBET
RAD	RADIUS
RB	RESILIENT BASE
RBR	RUBBER
RCP	REINFORCED CONCRETE PIPE
RCVR	RECEIVER
RD	ROOF DRAIN
RDGINS	RIGID INSULATION
RDWY	ROADWAY
REBAR	REINFORCING STEEL BARS
REC	RECESSED
RECT	RECTANGULAR
REF	REFERENCE
REFL	REFLECT(ED), (IVE), (OR)
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D), (ING), (MENT)
REM	REMOVE(ABLE)
REP	REPAIR
REPL	REPLACE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION(S), REVISED
RF	RESILIENT FLOORING
RFG	ROOFING

RH	ROOF HATCH
RH	RIGHT HAND
RHMS	ROUND HEAD
RHS	MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHW	ROUND HEAD WOOD SCREW
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROUGH SAWN
RTF	RUBBER TILE FLOORING
RTU	ROOF TOP UNIT
RV	ROOF VENT
RVL	REVEAL
RVS	REVERSE (SIDE)
RVT	RIVET(ED)
RWD	REDWOOD
RWL	RAIN WATER LEADER

S	SOUTH
S2S	SURFACED TWO SIDES
S4S	SURFACED FOUR SIDES
SA	SUPPLY AIR
SALV	SALVAGE
SAT	SUSPENDED ACOUSTICAL TILE
SB	SPLASH BLOCK
SBSTR	SUBSTRATE
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCUPP	SCUPPER
SCRN	SCREEN
SD	STORM DRAIN
SOBL	SANDBLAST
SECT	SECTION
SGL	SINGLE
SHR	SHOWER
SHT	SHEET(ING)
SHTHG	SHEATHING
SHV	SHELVES (ING)
SIM	SIMILAR
SKLT	SKYLIGHT
SLD	SEALED
SLDG	SLIDE (ING)
SLDR	SOLDER
SLNT	SEALANT
SLV	SLEEVE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION

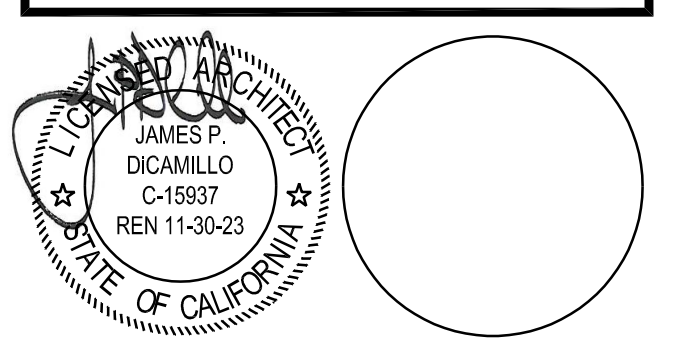
SMLS	SEAMLESS
SND	SANITARY NAPKIN DISPENSER
SNDINS	SOUND INSULATION
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SNT	SEALANT
SPC	SUSPENDED PLASTER CEILING
SPD	SOAP DISPENSER
SPEC	SPECIFICATION(S), (ED)
SPRT	SUPPORT
SQ	SQUARE
SSK	SERVICE SINK
SST	STAINLESS STEEL
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STG	SEATING
STIF	STIFFENER
STR	STIRRUP
STL	STEEL
STOR	STORAGE
STR	STRAIGHT
ST	STREET
STRUCT	STRUCTURAL
STU	STRUCT
SUSP	SUSPENDED
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM

T	TREAD
T & B	TOP AND BOTTOM
TB	THRU BOLT
TBE	THREADED BENCH MARK
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TD	TOWEL DISPENSER
TDR	TOWEL DISPENSER/ RECEPTACLE
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
T & G	TONGUE & GROOVE
THD	THREAD(ED)
THERM	THERMAL



RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
ROWLAND UNIFIED SCHOOL DISTRICT
3003 E. HOLLINGWORTH ST., WEST COVINA, CA



CONSULTANT

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: SA CHECKED: JPD
DATE: 06/24/2022 SCALE: AS NOTED
PROJECT NUMBER: W2105400AR

CODE ANALYSIS

DRAWING NUMBER: **A0.5**

GENERAL NOTES

- OCCUPANT LOAD FACTORS ARE ACCORDING TO CBC SECTION 1004, TABLE NO. 1004.5
- ACCESSORY USE AREA EXCLUDED FROM OCCUPANT LOADING.
- WHERE OCCUPANT LOAD SIGN IS REQUIRED THE ROOM SHALL BE POSTED WITH A SIGN NEAR THE MAIN EXIT FROM THE ROOM. REFER TO SIGNAGE SCHEDULE FOR DETAIL.

GOVERNING AGENCIES

DIVISION OF THE STATE ARCHITECT
STRUCTURAL SAFETY SECTION (DSA/SSS)
355 SOUTH GRAND AVE., SUITE 2100
LOS ANGELES, CALIFORNIA 90071
(213) 897-3995

DIVISION OF THE STATE ARCHITECT
ACCESS COMPLIANCE (DSA/AC)
355 SOUTH GRAND AVE., SUITE 2100
LOS ANGELES, CALIFORNIA 90071
(213) 897-0902

DIVISION OF THE STATE ARCHITECT
FIRE AND LIFE SAFETY SECTION (DSA/FLS)
355 SOUTH GRAND AVE., SUITE 2100
LOS ANGELES, CALIFORNIA 90071
(213) 897-2913

COUNTY OF SAN BERNARDINO
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
385 NORTH ARROWHEAD AVENUE
SAN BERNARDINO, CALIFORNIA 92415
(909) 387-4608

LOCAL FIRE MARSHAL APPROVAL

THE NEW LOCAL FIRE MARSHAL APPROVAL FORM IS LOCATED IN THE BLOCK FILE - FILL OUT THE PDF FORM AND THEN INSERT IT ON YOUR SITE PLAN DRAWING AS A PDF UNDERLAY

GOVERNING CODES

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2019 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2

2019 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3

2019 CALIFORNIA MECHANICAL CODE (CMC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4

2019 CALIFORNIA PLUMBING CODE (CPC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5

2019 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2019 CALIFORNIA HISTORICAL BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 8

2019 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9

2019 CALIFORNIA EXISTING BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11

2019 CALIFORNIA REFERENCED STANDARDS CODE - CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12

CALIFORNIA ELEVATOR SAFETY CODE, CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 8 (AS AMENDED TO DATE)

2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)

- APPLICABLE NFPA, UL AND ICC STANDARDS
- NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS, 2016 EDITION
 - NFPA 14 - STANDPIPE SYSTEMS, 2016 EDITION
 - NFPA 17 - DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
 - NFPA 17A - WET CHEMICAL SYSTEMS, 2017 EDITION
 - NFPA 20 - STATIONARY PUMPS, 2016 EDITION
 - NFPA 24 - PRIVATE FIRE MAINS, 2016 EDITION
 - NFPA 25 - WATER BASED FIRE PROTECTION SYSTEMS, 2013 EDITION
 - NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION
 - NFPA 80 - FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
 - NFPA 82 - STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION
 - NFPA 253 - CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2015 EDITION
 - NFPA 2001 - CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
 - ICC 300 - ICC STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION
 - UL 300 - FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL RESTAURANT COOKING AREAS, 2005 EDITION W/ REVISIONS THRU 2014
 - UL 464 - AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
 - UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION W/ REVISIONS THRU JULY 30, 2005

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2019 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL, STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

BUILDING ANALYSIS

- BUILDING SUMMARY**
- BUILDING DESIGNATION: (N) RESTROOM BLDG.
 - OCCUPANCY GROUP: E (CBC 305.1)
 - CONSTRUCTION TYPE: V-B
 - BASIC ALLOWABLE FLOOR AREA: 9,500 SF
 - ACTUAL FLOOR AREA: 960 SF
 - ALLOWABLE AREA INCREASES: NOT USED
 - BASIC ALLOWABLE BUILDING HEIGHT / NO OF STORIES: 40 / 1
 - ACTUAL BUILDING HEIGHT/ NO OF STORIES: 14 / 1
 - FIRE SPRINKLER: NO

- FIRE RESISTANCE RATING REQUIREMENTS (CBC TABLE 601)**
- STRUCTURAL FRAME: 0
 - EXTERIOR BEARING WALLS: 0
 - INTERIOR BEARING WALLS: 0
 - EXTERIOR NON-BEARING WALLS: 0
 - INTERIOR NON-BEARING WALLS: 0
 - FLOOR CONSTRUCTION: 0
 - ROOF CONSTRUCTION: 0
 - SHAFT CONSTRUCTION: 0

- FIRE RESISTANCE RATING REQUIREMENTS OF EXTERIOR WALLS (CBC TABLE 602)**
- FIRE SEPARATION DISTANCE $X < 5'-0"$: 1 HOUR RATING
 - FIRE SEPARATION DISTANCE $5'-0" \leq X < 10'-0"$: 1 HOUR RATING
 - FIRE SEPARATION DISTANCE $10'-0" \leq X < 30'-0"$: 1 HOUR RATING
 - FIRE SEPARATION DISTANCE $X \geq 30'-0"$: NO PROTECTION

- INTERIOR WALL AND CEILING FINISH REQUIREMENTS (CBC TABLE 803.13)**
- INTERIOR EXIT STAIRWAYS: CLASS
 - CORRIDORS: CLASS
 - ROOMS AND ENCLOSED SPACES: CLASS

ROOFING COVERING CLASS REQUIREMENTS (CBC TABLE 1505.1)

- ROOF COVERING: CLASS

MINIMUM EGRESS WIDTH (CBC SECTION 1005)

- INTERIOR EXIT STAIRWAYS: # OCCUPANTS X [0.2] [0.3] = EGRESS WIDTH
- DOORS: # OCCUPANTS X [0.15] [0.20] = EGRESS WIDTH
- 2 EXITS ARE PROVIDED IN ALL ROOMS WHERE OCCUPANT LOAD EXCEEDS 50

DSA 810

DSA 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 buildings, addition to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply information associated with completion 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. Acknowledgment 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 stamped 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 stamped 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 Submittal.

PROJECT INFORMATION

School District/Owner: **ROWLAND UNIFIED SCHOOL DISTRICT**
Project Name/School: **HOLLINGWORTH ELEMENTARY SCHOOL**
Project Address: **3003 E. HOLLINGWORTH ST., WEST COVINA, CA 91730**

FIRE & LIFE SAFETY INFORMATION

1. Has a fire hydrant flow test been performed within the past 12 months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2. If yes, provide a copy of the test data.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3. Has the fire hydrant flow test been performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal Fire? If yes, indicate FHSZ classification below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Refer to the following sections for FHSZ locations: California Fire Hazard Severity Zones	Moderate <input type="checkbox"/>	High <input type="checkbox"/>
Very High <input type="checkbox"/>	WFA <input type="checkbox"/>	

Wildland Interface Area (WFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)

DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION	YES	NO	NO	NO
4. Emergency vehicle access (roadways) do not meet CFC requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4a. Acceptable Alternative: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Fire Hydrants: Number and spacing does not meet CFC requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5a. Acceptable Alternative: Number of hydrants and spacing as proposed by the project architect is acceptable for the suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6a. Acceptable Alternative: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Location of the department connection(s) serving the sprinkler systems or standpipe systems does not meet CFC requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7a. Acceptable Alternative: 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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

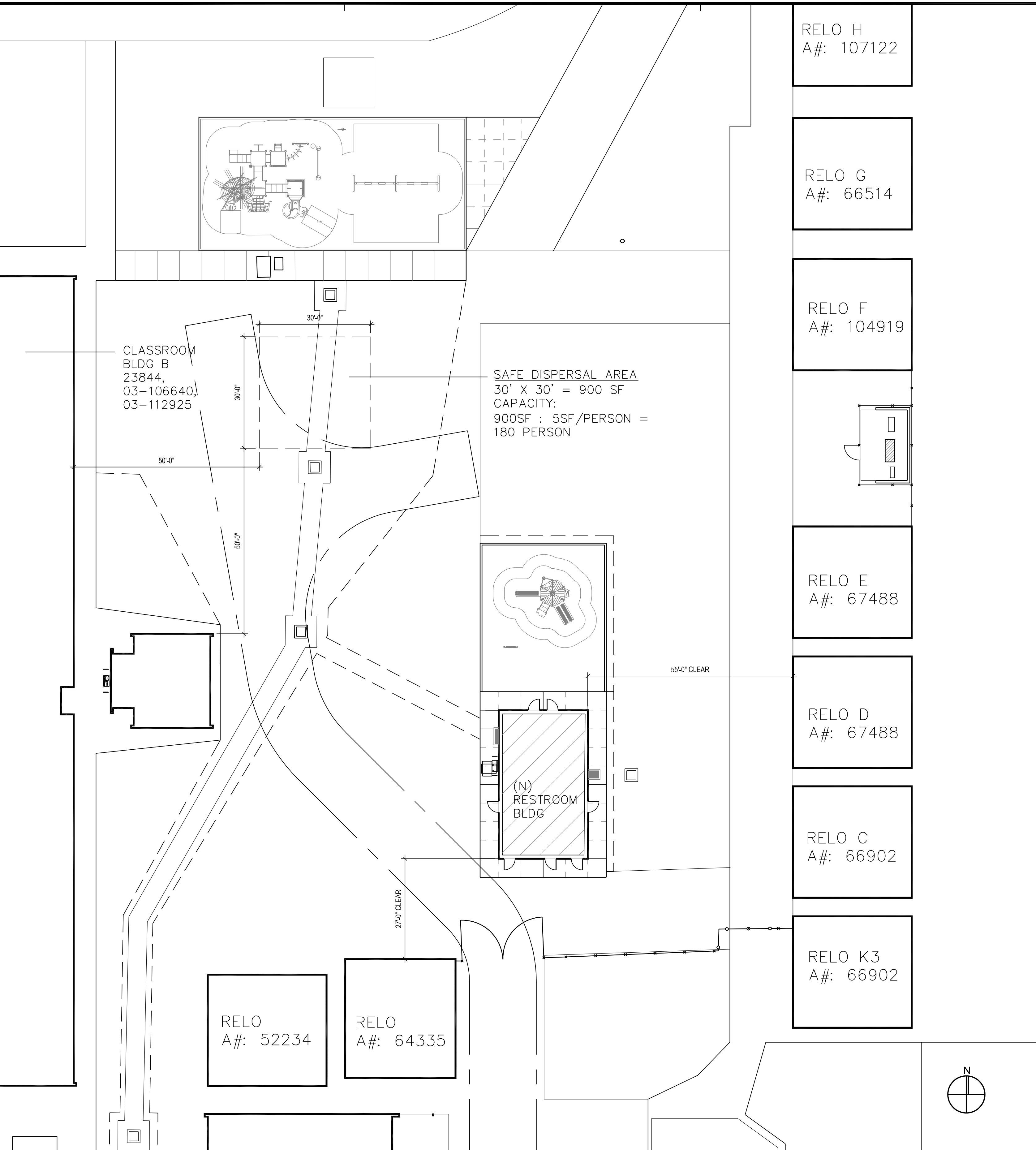
School District Acceptance of Acceptable Design Alternatives

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) 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: _____ Title: _____
Signature: _____ Date: _____

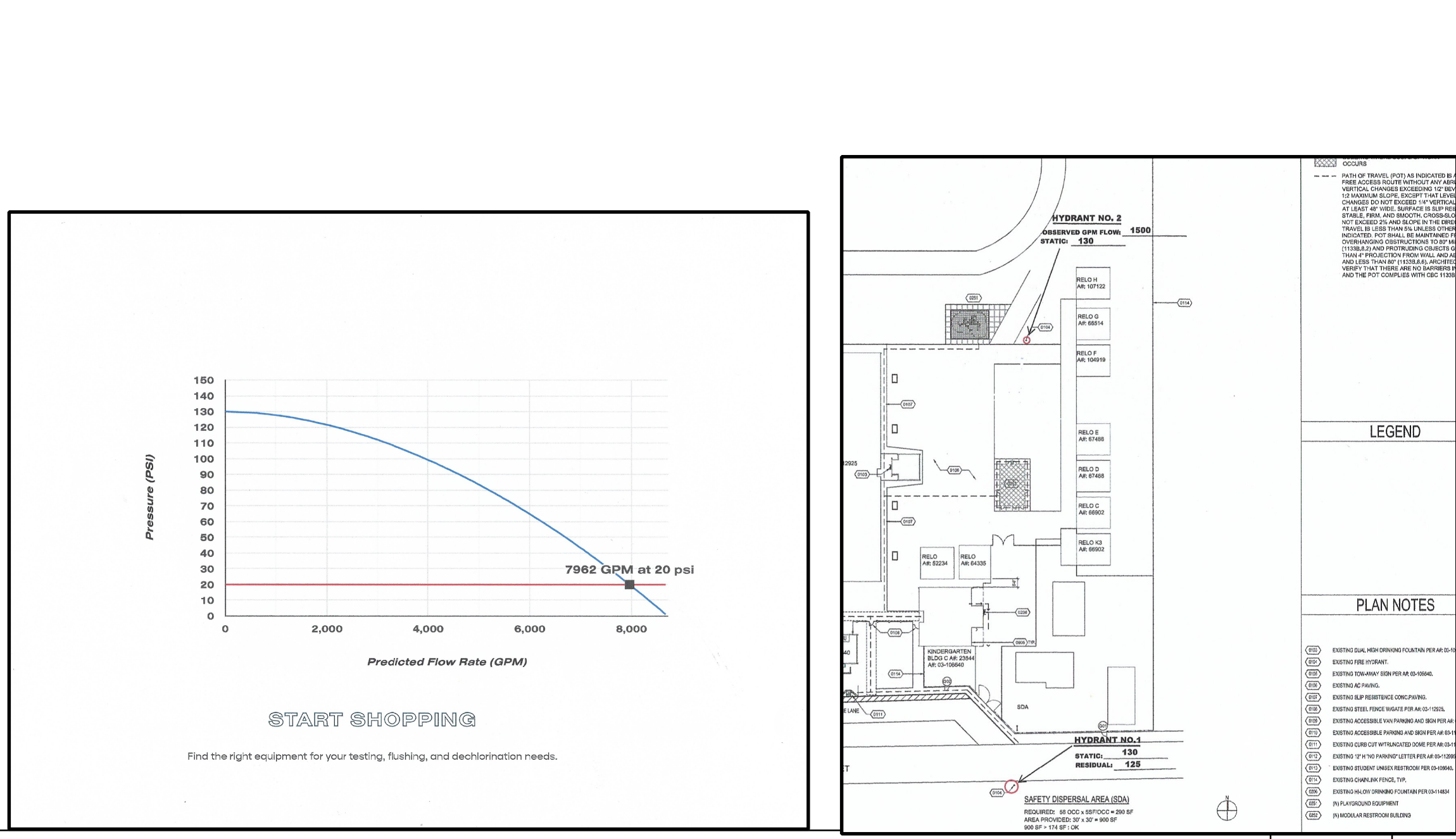
LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: _____
LFA Review Official: _____
Title: _____ Work Phone: _____
Work Email: _____
LFA Reviewer's Signature: _____ Date: _____



SITE ANALYSIS

1" = 10' - 0"

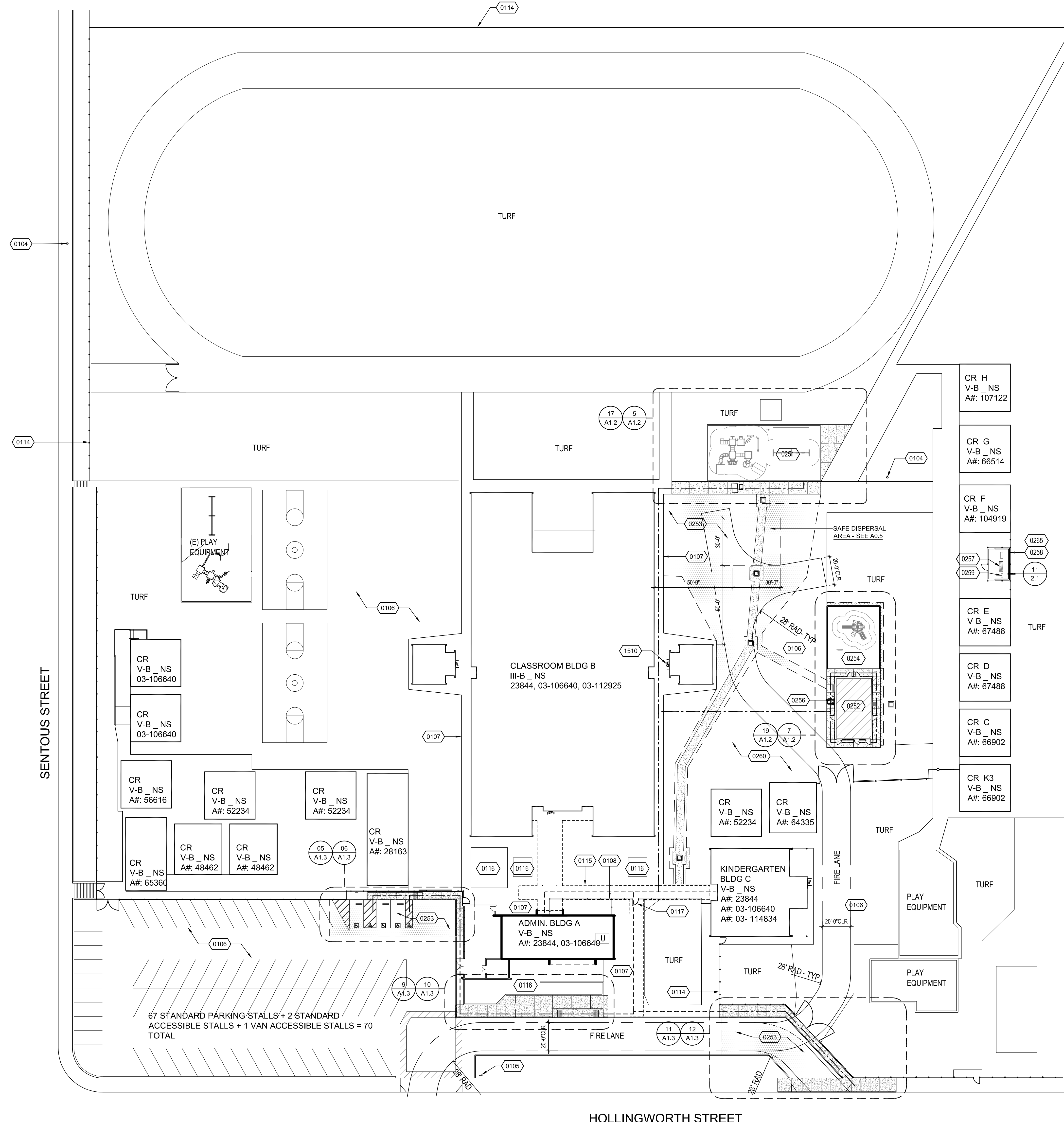


N.T.S. 2



RANCHO CUCAMONGA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-987-0909 P

HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
 ROWLAND UNIFIED SCHOOL DISTRICT
 3003 E. HOLLINGWORTH ST., WEST COVINA, CA



- EXISTING BUILDING - N.I.C.
- (N) MODULAR BUILDING
- (N) CONCRETE PAVING PER 2/3.1 UON. PROVIDE EXPANSION AND CONTROL JOINT PER SPECS. SEE CIVIL DRAWING FOR MORE INFO
- EXPANSION JOINTS PER 1C/2.1
- CONTROL JOINT PER 1B/2.1
- (N)SOD TO MATCH ADJACENT
- (N)AC PAVING RECONFIGURATION - SEE CIVIL DRAWING FOR MORE INFO

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE 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 NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCE, THE ITEM SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

THE STATEMENT INDICATES THAT THE ITEMS NOT IDENTIFIED AND NOT IN COMPLIANCE BY MEANS OF CONSTRUCTION CHANGE DOCUMENTS, IT DOES NOT MEAN AN UNREASONABLE HARDSHIP CAN BE SUBMITTED IN LIEU OF COMPLIANCE

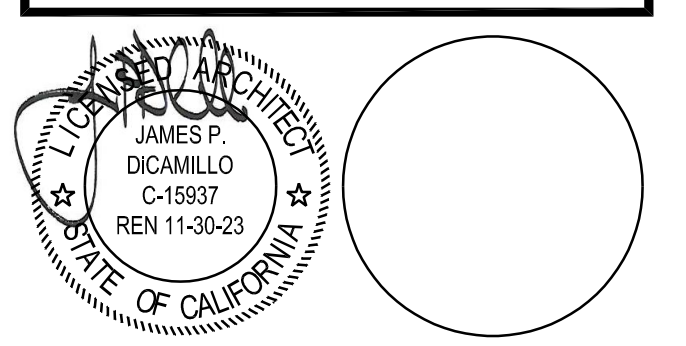
EXTERIOR ACCESSIBLE ROUTE OF TRAVEL FROM (E) OR (N) ON-SITE ACCESSIBLE PARKING TO BUILDINGS PRIMARY ENTRANCES AND WHEEL CHAIR ACCESSIBLE RESTROOMS

MAXIMUM CROSS-SLOPE OF 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.

--- EXISTING P.O.T A03-112925
 --- NEW P.O.T

LEGEND 2

- UNLESS INDICATED BY "NEW" OR "N" ALL ITEMS CALLED OUT ARE EXISTING TO REMAIN OR BE RECONFIGURED PER THE INSTRUCTION
- 0104 EXISTING FIRE HYDRANT.
- 0105 EXISTING TOW-AWAY SIGN PER A03-106640.
- 0106 EXISTING AC PAVING.
- 0107 EXISTING CONC. PAVING.
- 0108 EXISTING STEEL FENCE PER A03-112925.
- 0114 EXISTING CHAINLINK FENCE, TYP.
- 0115 EXISTING WALKWAY COVER STRUCTURE
- 0116 EXISTING PLANTER
- 0117 EXISTING ACCESSIBLE STEEL GATE PER A03-112925
- 0251 (N) PLAYGROUND EQUIPMENT AGE 5-12
 INSTALLATION OF EQUIPMENT INCLUDING EXCAVATION AND DISPOSAL OF (E) TURF/SOIL, AGGREGATE BASE, PERIMETER CURB AND SAFETY SURFACING INSTALLATION TO BE PERFORMED BY THE VENDOR. GENERAL CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING AS NECESSARY TO ACHIEVE POINT ELEVATIONS SPECIFIED ON CIVIL DRAWING
- 0252 (N) MODULAR RESTROOM BUILDING PER AMS DRAWING
 MODULAR BUILDING PLACEMENT BY AMS. GENERAL CONTRACTOR (GC) TO CONSTRUCT CONCRETE FOUNDATION PER AMS DRAWING. COORDINATE CONSTRUCTION DETAILS WITH AMS PRIOR TO, DURING AND AFTER CONSTRUCTION TO ENSURE ACCEPTANCE BY AMS.
- 0253 (N) STORM DRAINAGE AND SITE IMPROVEMENT PER C-2
- 0254 (N) PLAYGROUND EQUIPMENT AGE 2-5
 INSTALLATION OF EQUIPMENT INCLUDING EXCAVATION AND DISPOSAL OF (E) TURF/SOIL, AGGREGATE BASE, PERIMETER CURB AND SAFETY SURFACING INSTALLATION TO BE PERFORMED BY THE VENDOR. GENERAL CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING AS NECESSARY TO ACHIEVE POINT ELEVATIONS SPECIFIED ON CIVIL DRAWING
- 0256 (N) HI-LO DRINKING FOUNTAIN PER AMS DRAWING
- 0257 (N) DISTRIBUTION BOARD PER ELEC DWG
- 0258 (N) 24" H CONCRETE WALL
- 0259 (E) TERMINAL CABINET PER ELEC DWG
- 0260 (N) PLAY STRIPING IN THIS ENTIRE COURTYARD TO MATCH EXISTING
- 0265 REMOVE AND REINSTALL (E) 6" H CL FENCE FOR NEW CONSTRUCTION PROVIDE NEW MATERIAL AS NECESSARY
- 1510 (N) ACCESSIBLE DRINKING FOUNTAIN PER DETAIL 21/A1.3



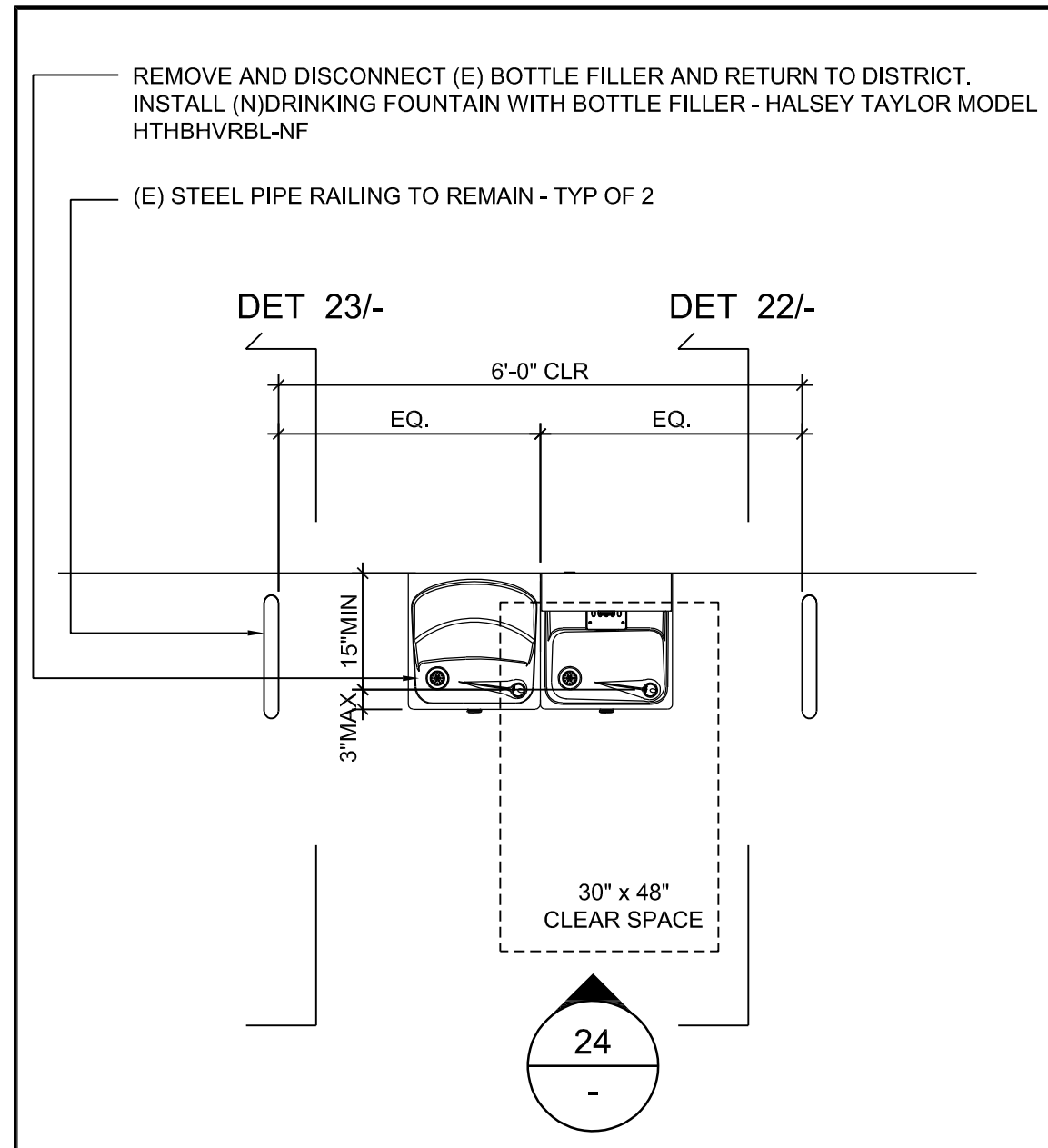
CONSULTANT

NO	DATE	BY	DESCRIPTION
REVISIONS			

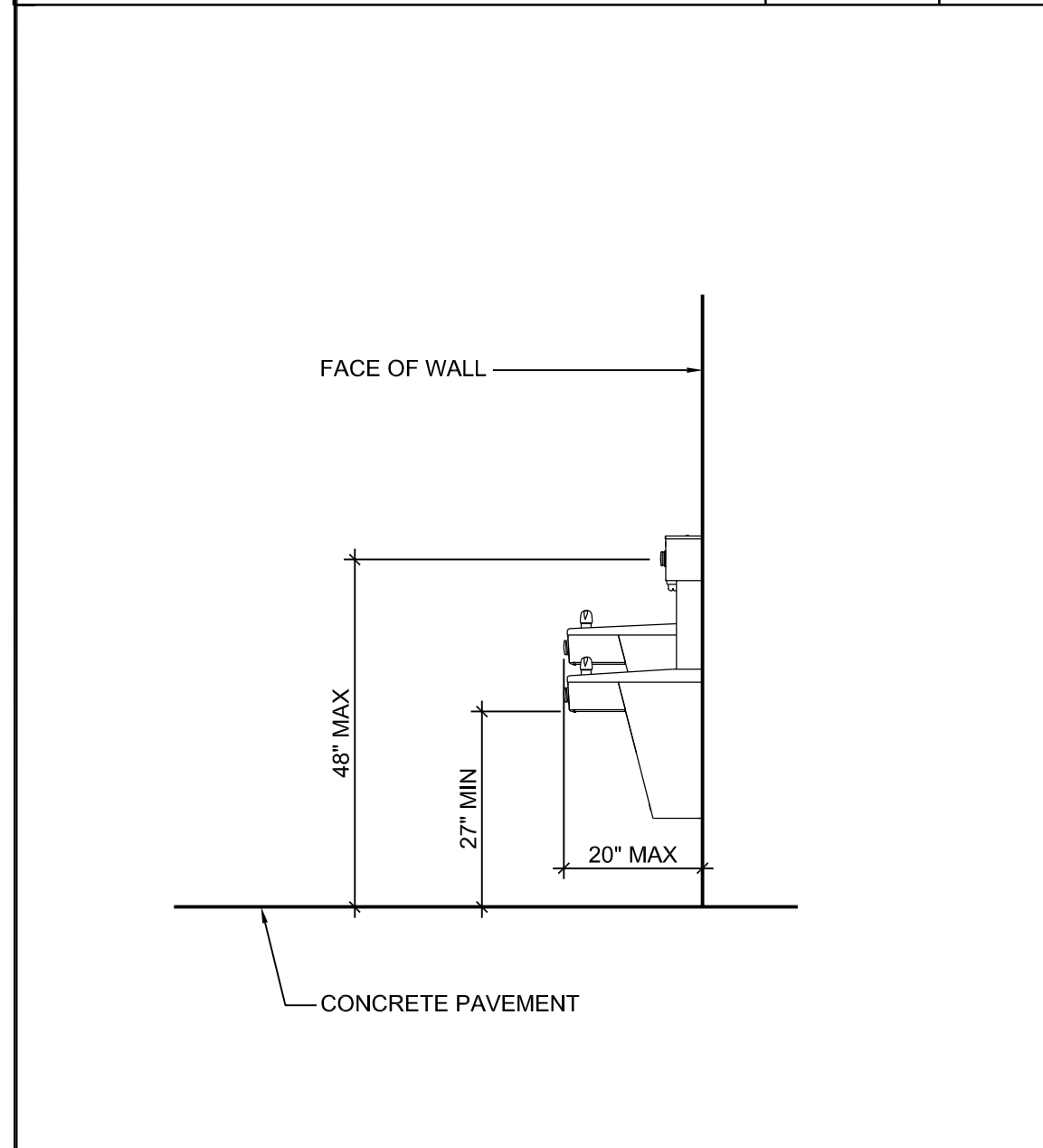
DRAWN: SA CHECKED: JPD
 DATE: 06/24/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

SITE PLAN

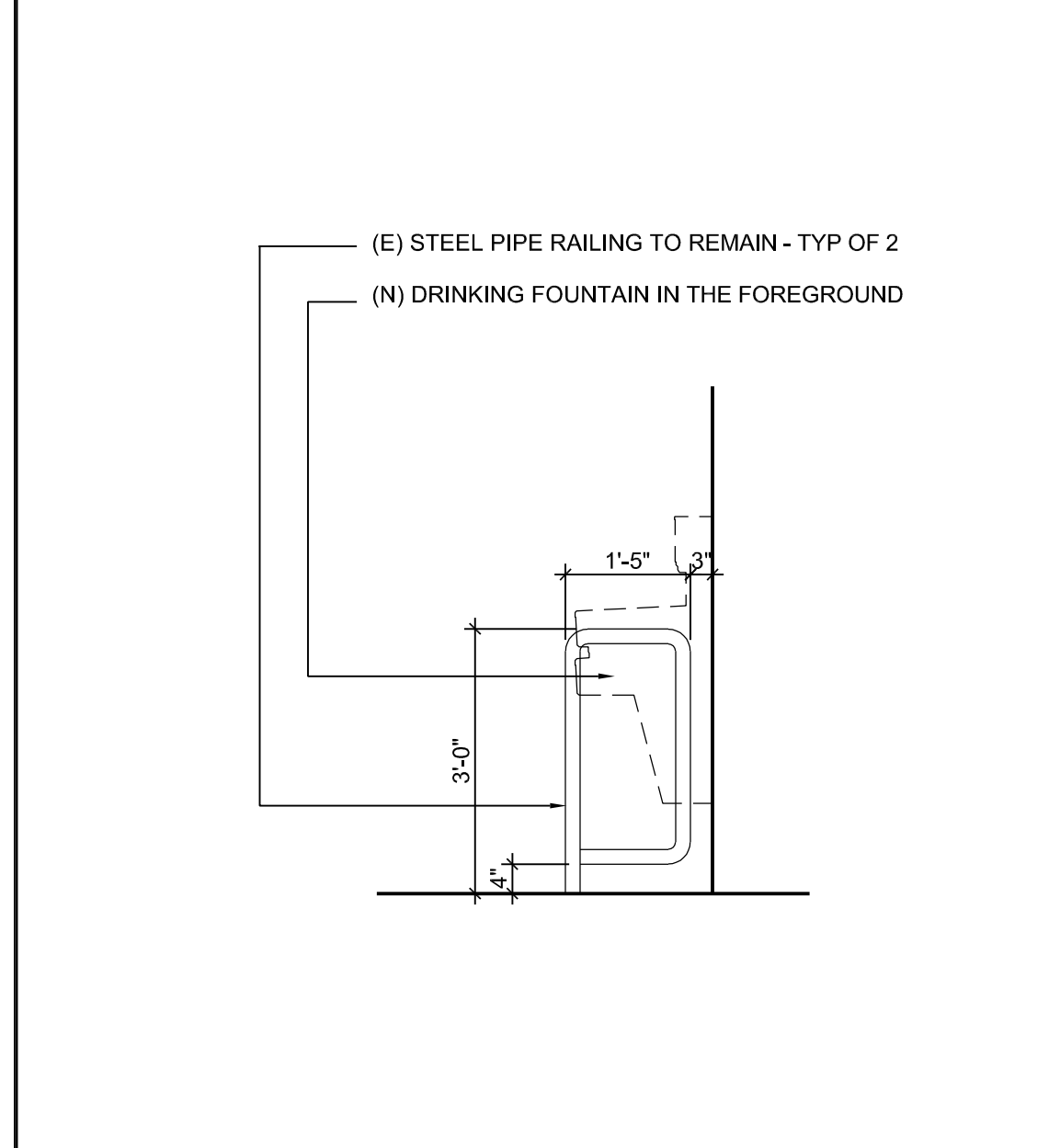
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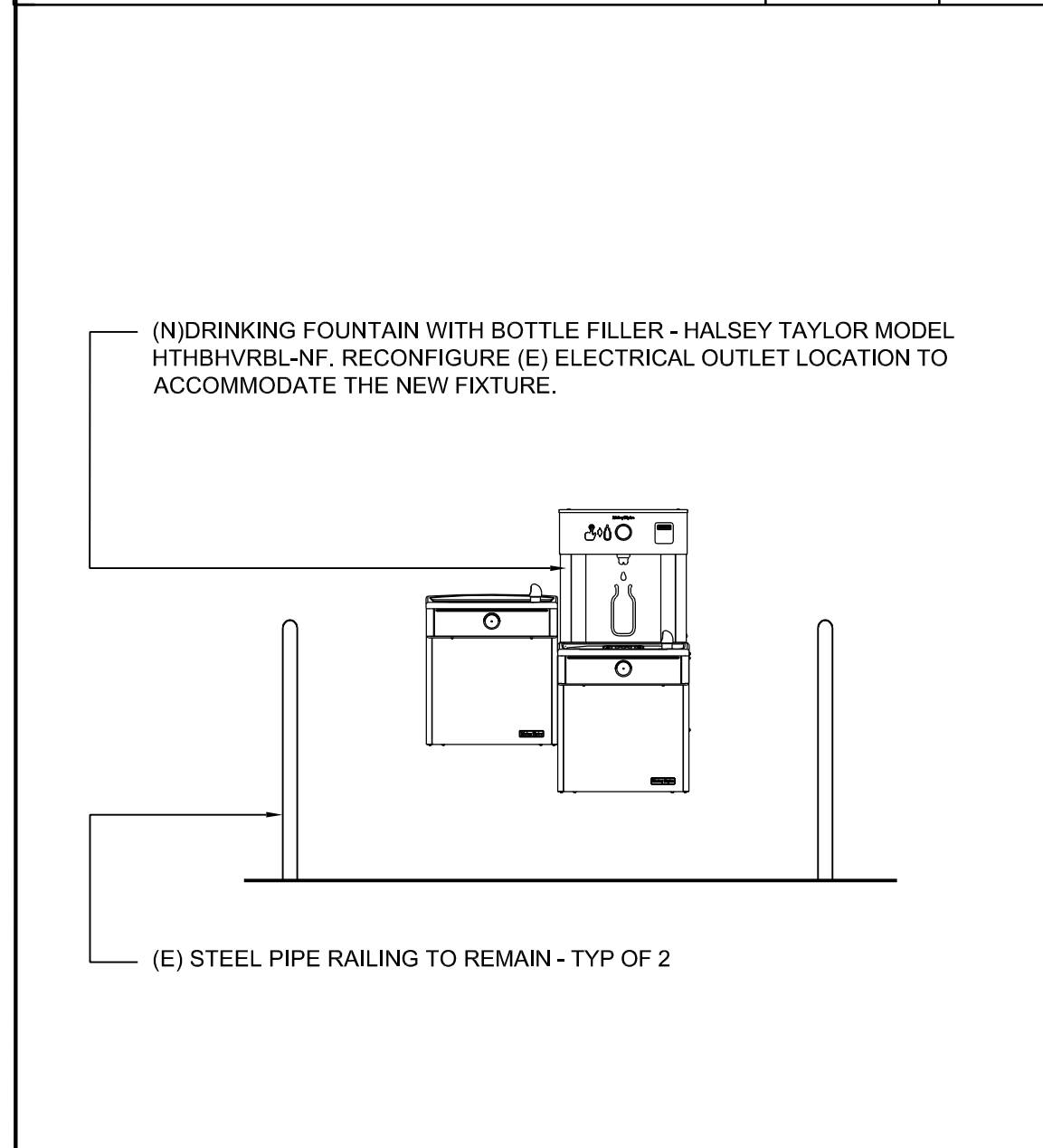
STAFF D.F. 1/2" = 1'-0" 21



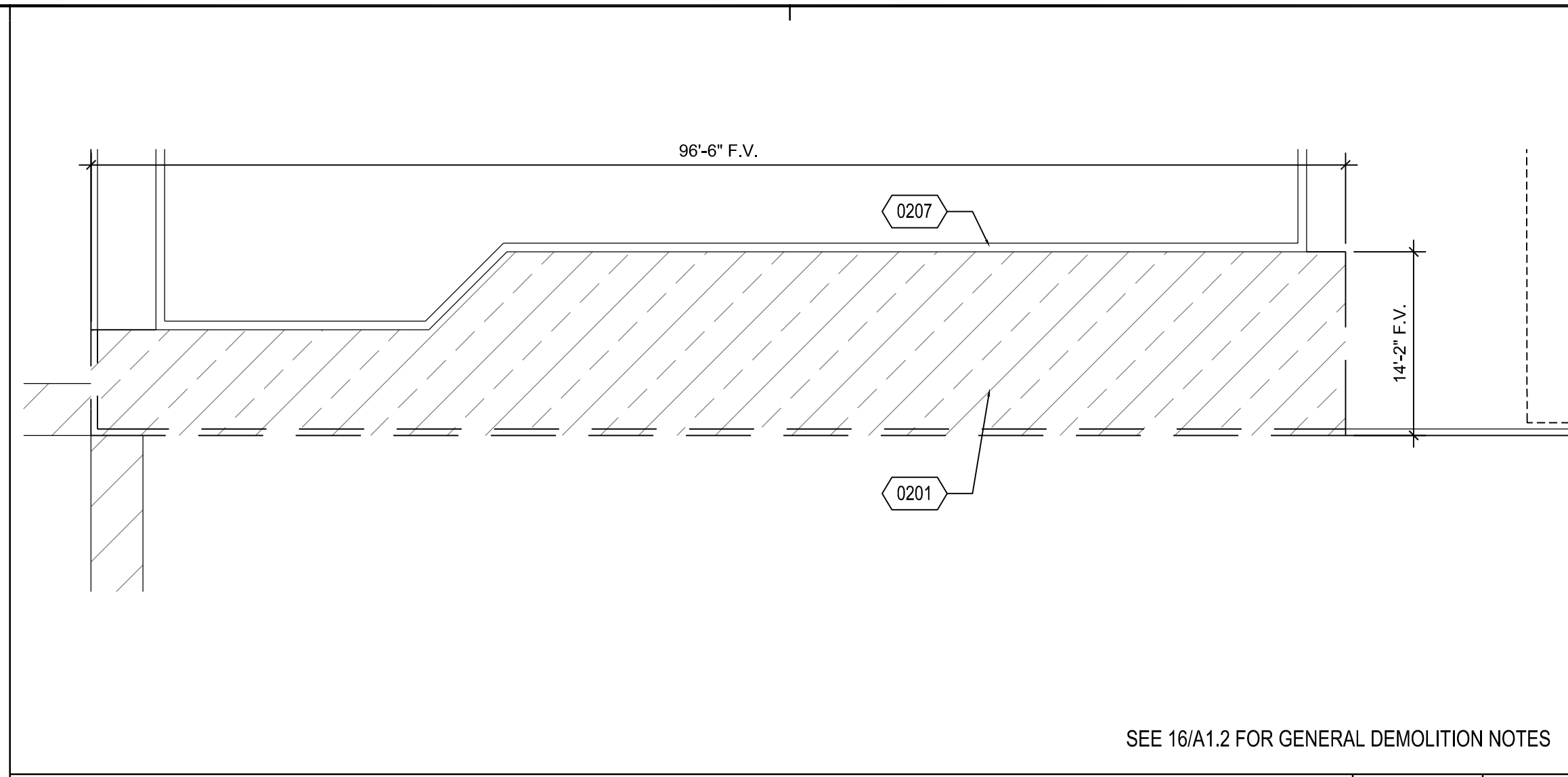
SECTION A 1/2" = 1'-0" 22



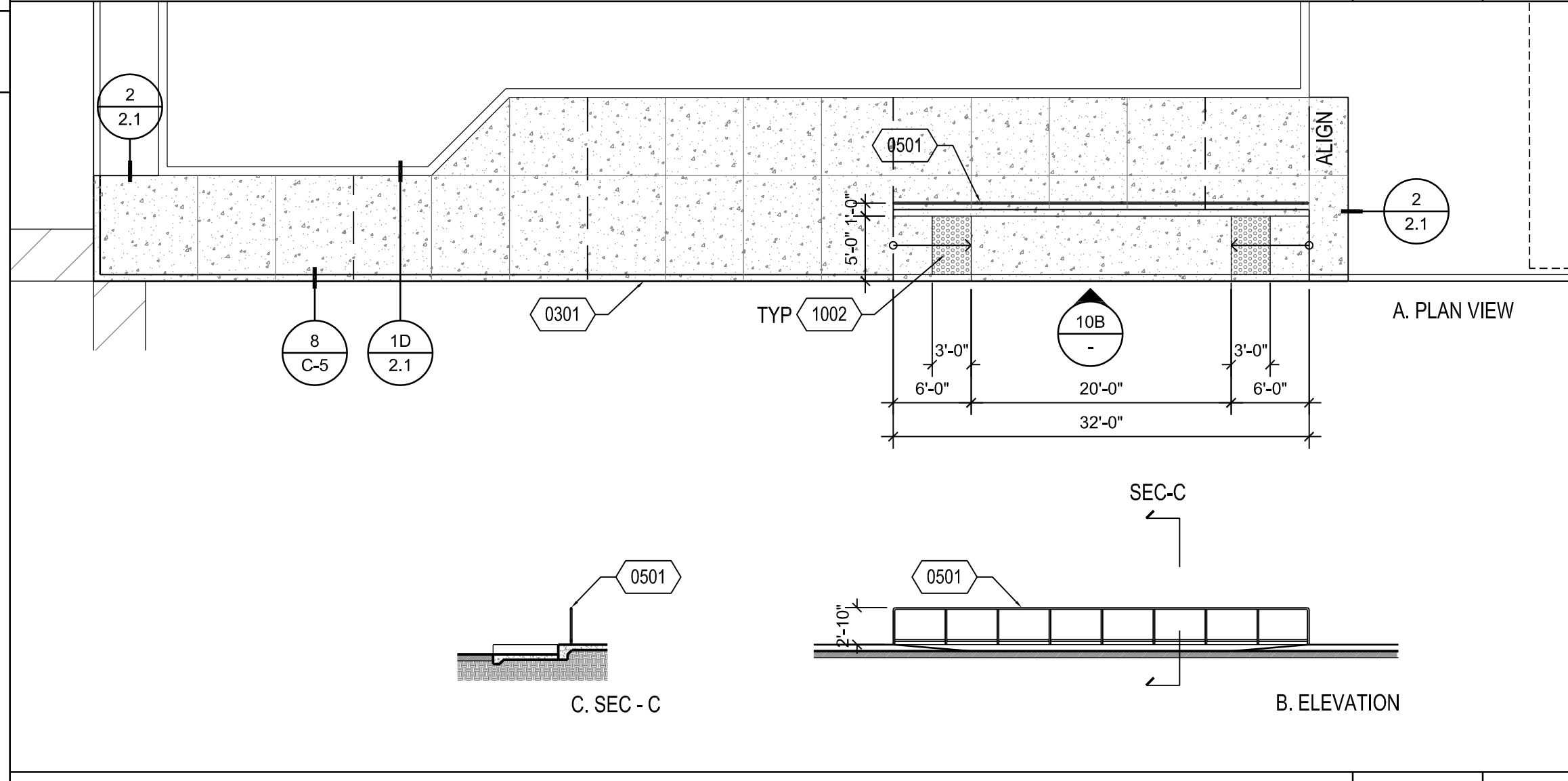
SECTION B 1/2" = 1'-0" 23



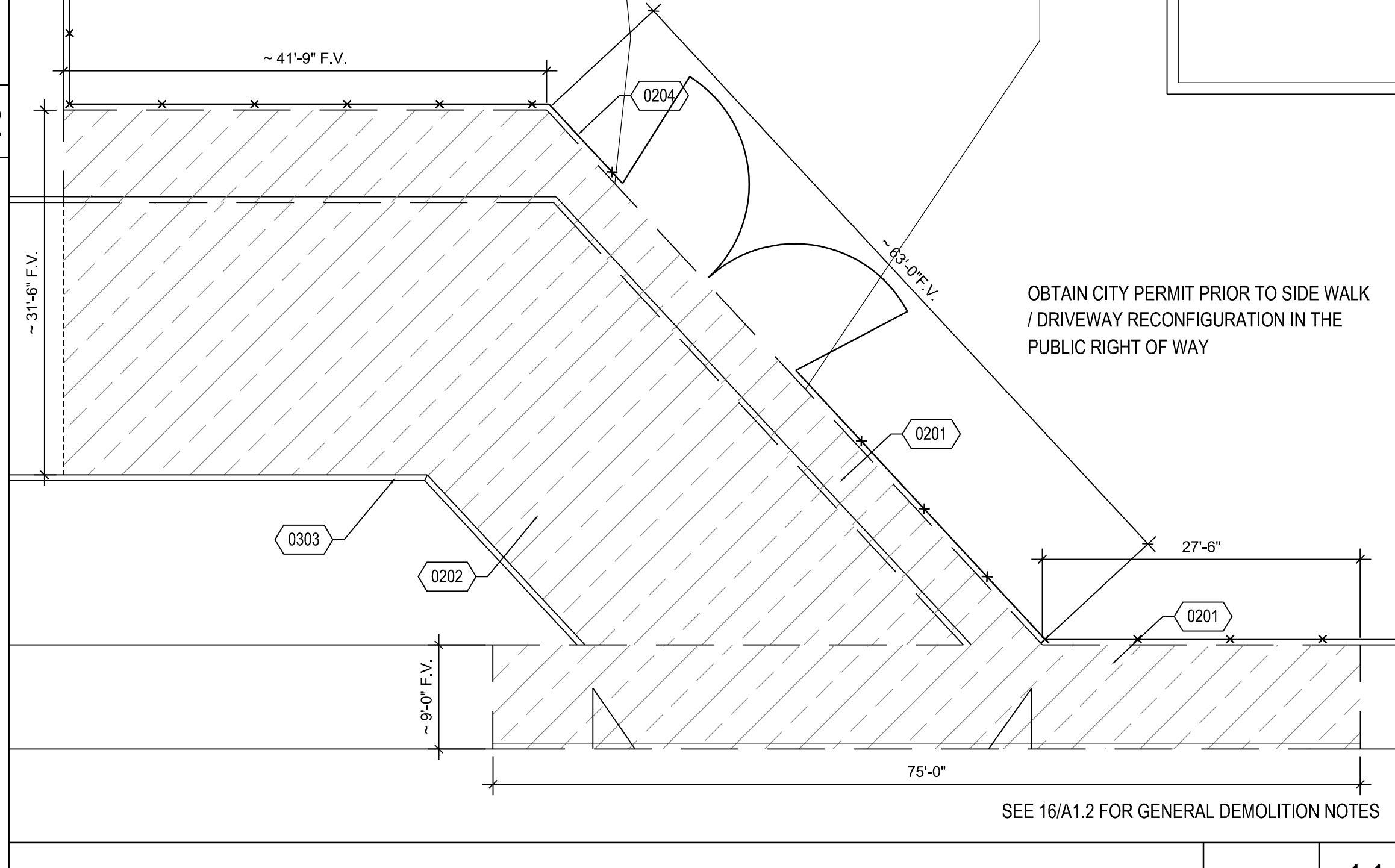
ELEVATION C 1/2" = 1'-0" 24



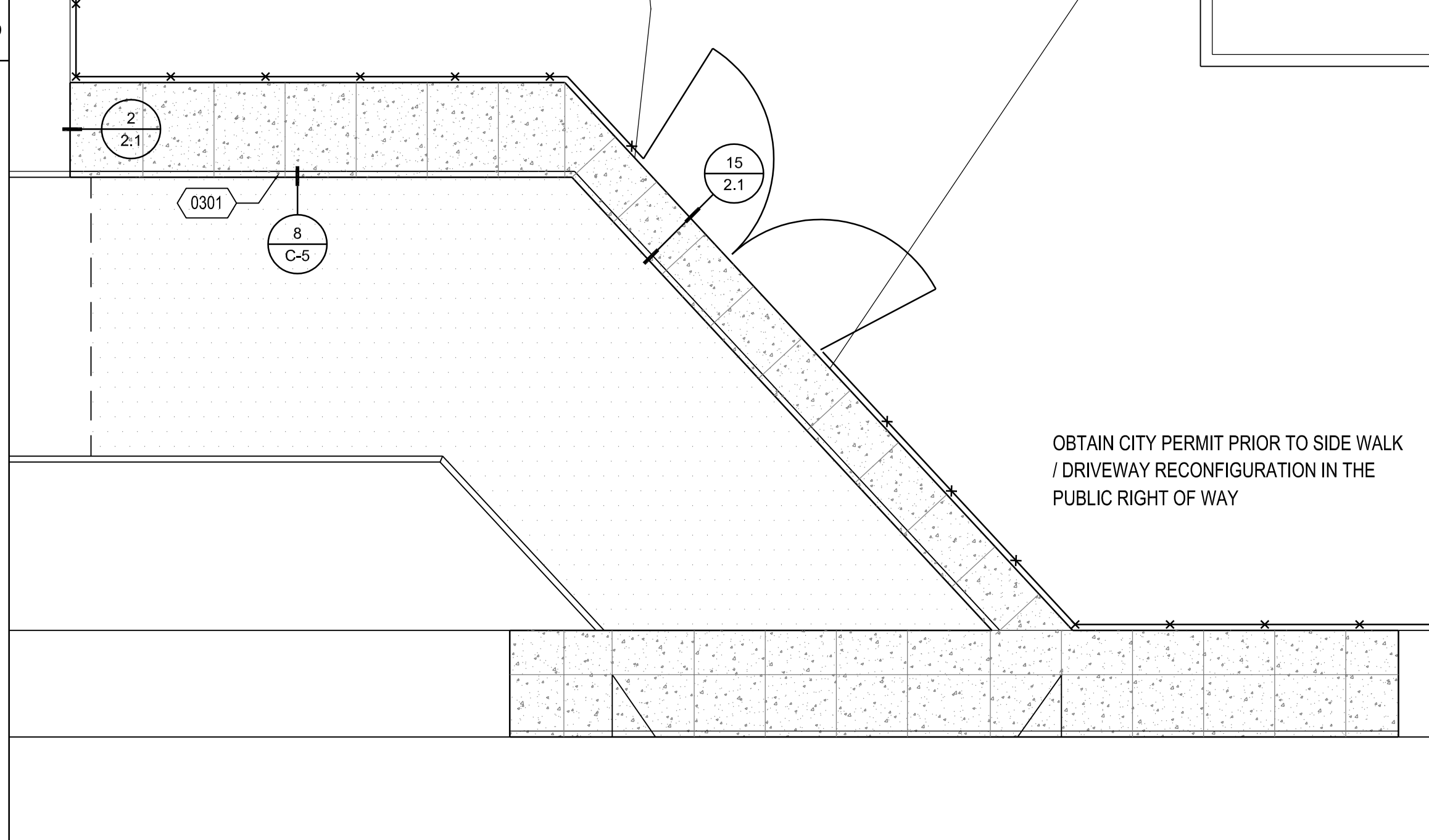
(E) WALKWAY DEMOLITION PLAN 1" = 10'-0" 9



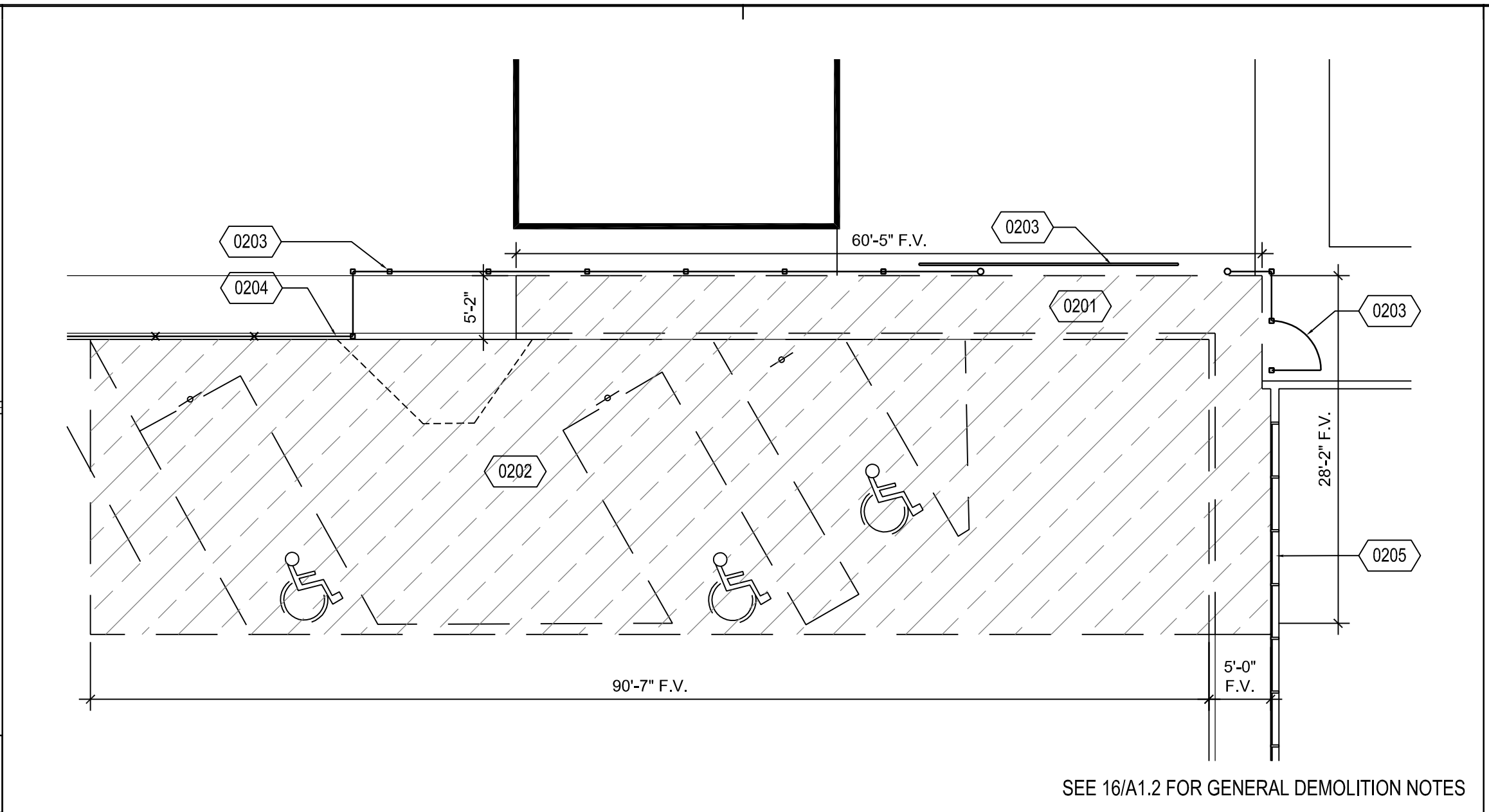
(N) WALKWAY PLAN 1" = 10'-0" 10



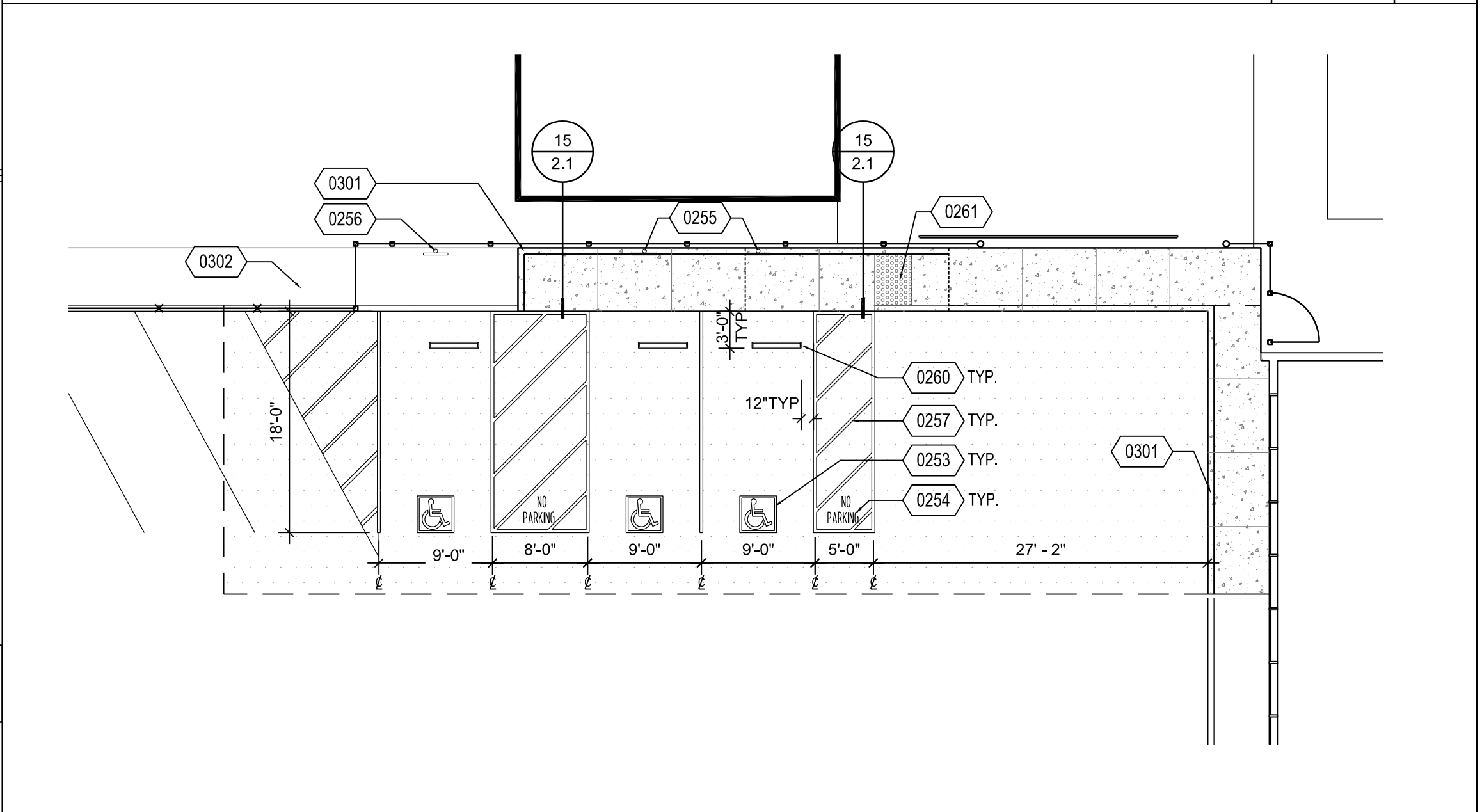
(N) WALKWAY PLAN 1" = 10'-0" 11



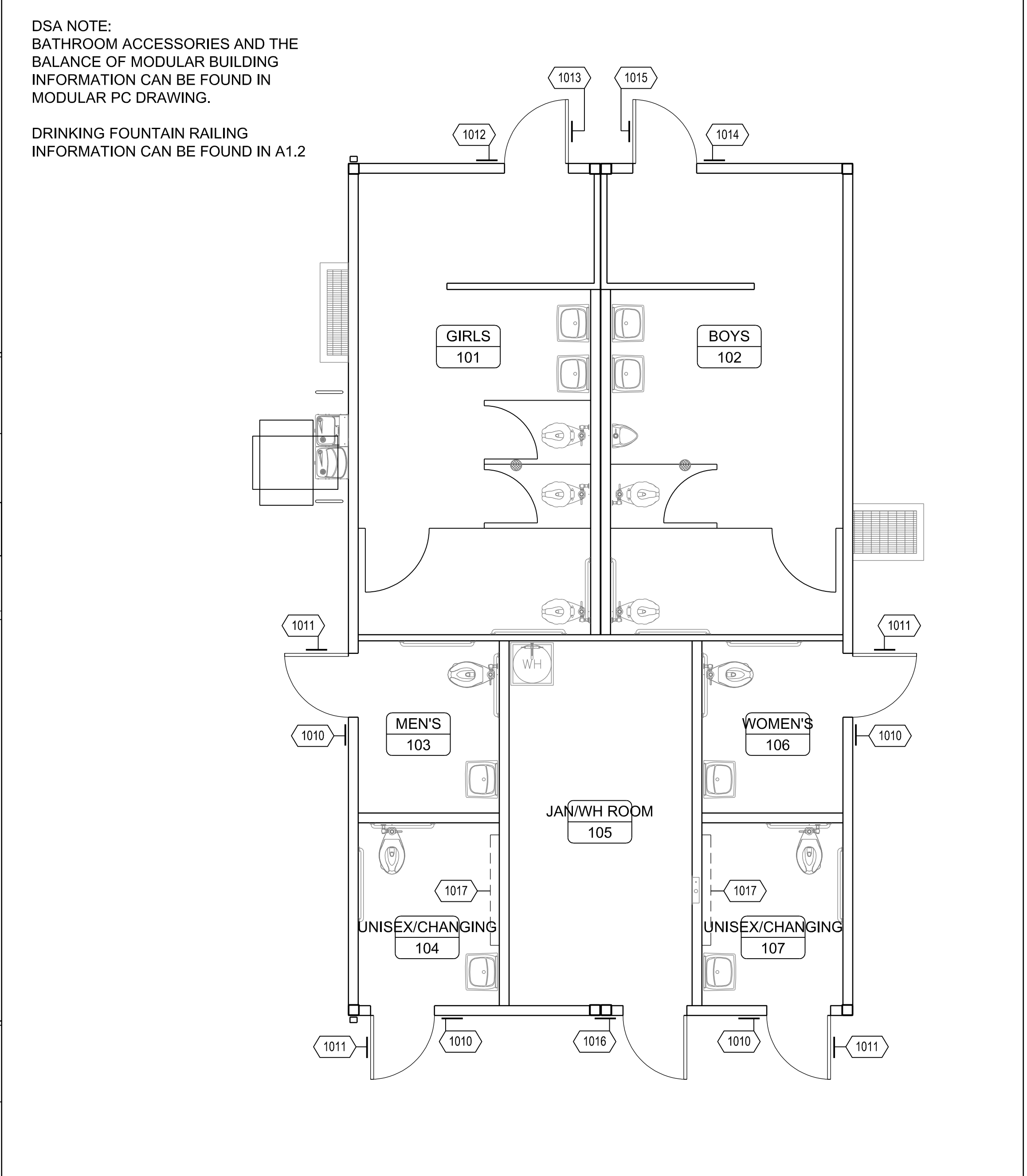
(N) WALKWAY PLAN 1" = 10'-0" 12



(E) PARKING DEMOLITION PLAN 1" = 10'-0" 5



(N) ACCESSIBLE PARKING PLAN 1" = 10'-0" 6

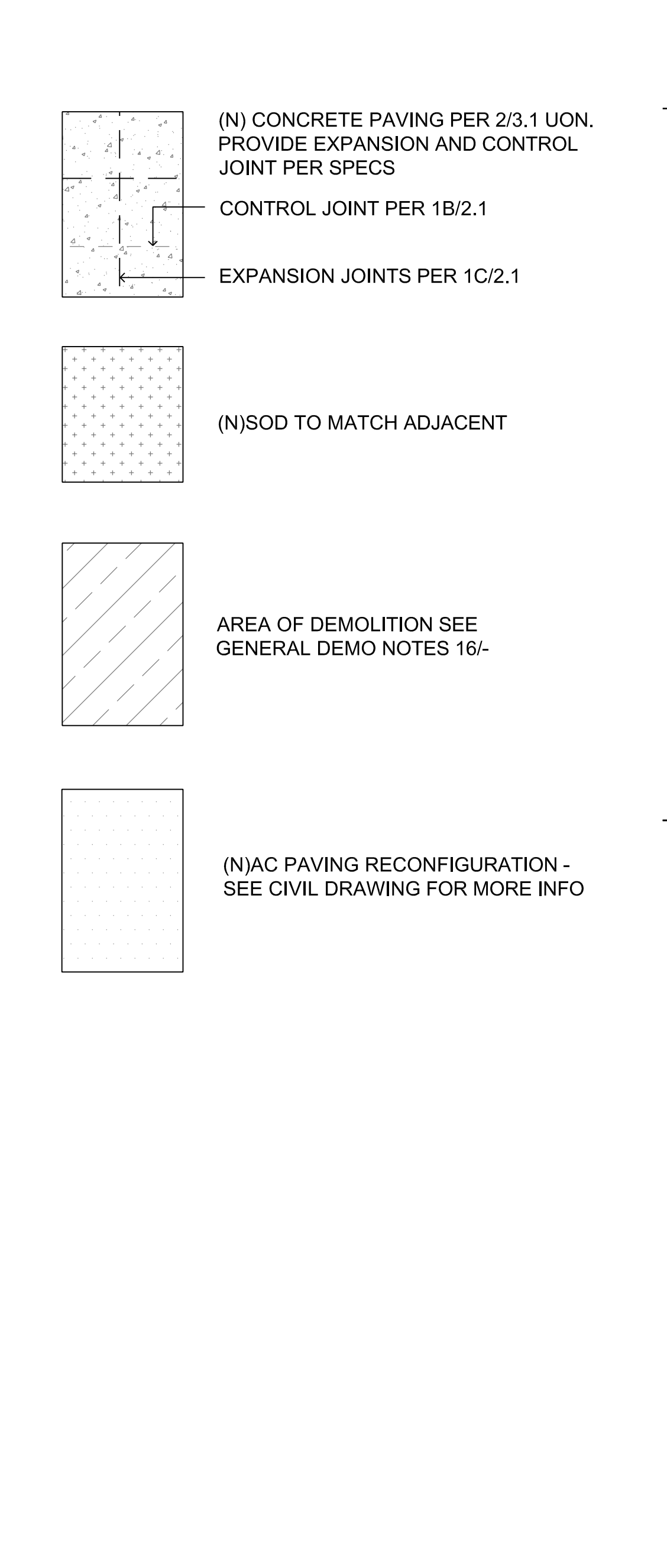


SIGNAGE AND CHANGING STATION LAYOUT - 8

- 0201 DEMO CONCRETE SIDE WALK. SEE C-2 FOR MORE INFO
- 0202 REMOVE AC PAVING, SEE C-2 FOR MORE INFO
- 0203 (E) STEEL FENCE AND GATE TO REMAIN
- 0204 (E) L. FENCE AND GATE TO REMAIN
- 0205 (E) STEEL ENCLOSURE TO REMAIN
- 0207 PLANTER WALL TO REMAIN - PROTECT DURING CONSTRUCTION
- 0253 (N) PAINTED ACCESSIBLE SYMBOL, REF DETAIL 8/A2.1
- 0254 (N) 12" H PAINTED WHITE TEXT WITH NO STRIPING THROUGH TEXT
- 0255 (N) ACCESSIBLE PARKING SIGN, REF DETAIL 5/A2.1
- 0256 (N) VAN ACCESSIBLE PARKING SIGN, REF DETAIL 6/A2.1
- 0257 (N) 4" WIDE WHITE DIAGONAL PAVEMENT STRIPING
- 0260 (N) CONC WHEEL STOP, TYP.
- 0261 (N) TRUNCATED DOMES, REF DETAIL 10/2.1
- 0301 (N) CONCRETE CURB
- 0302 (E) CONCRETE TO REMAIN
- 0303 (E) CONCRETE CURB TO REMAIN
- 0501 (N) HANDRAIL PER 4/2.1 SIM

- 1002 (N) TRUNCATED DOME PER 10/2.1
- 1010 (N) UNISEX WALL SIGN PER 3&4/ N4.0
- 1011 (N) UNISEX DOOR SIGN PER 4&8/ N4.0
- 1012 (N) GIRLS WALL SIGN PER 4&6/ N4.0
- 1013 (N) GIRLS DOOR SIGN PER 2&4/ N4.0
- 1014 (N) BOYS WALL SIGN PER 1&4/ N4.0
- 1015 (N) BOYS DOOR SIGN PER 4&7/ N4.0
- 1016 (N) ROOM ID SIGN PER 4&5/ N4.0
- 1017 (N) CHANGING TABLE (OFCI) - PER DETAIL 9/2.1 BLOCKING BY AMS

REFERENCE NOTES 2



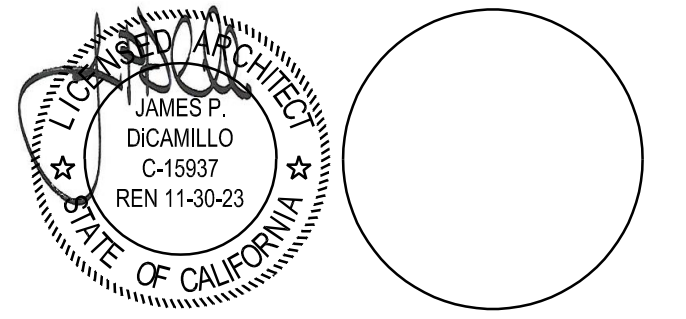
LEGEND 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122206 INC.
REVIEWED FOR
SS FLS ACS
DATE: 06/29/2022



RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
ROWLAND UNIFIED SCHOOL DISTRICT
3003 E. HOLLINGWORTH ST., WEST COVINA, CA



CONSULTANT

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: SA CHECKED: JPD
DATE: 06/24/2022 SCALE: AS NOTED
PROJECT NUMBER: W2105400AR

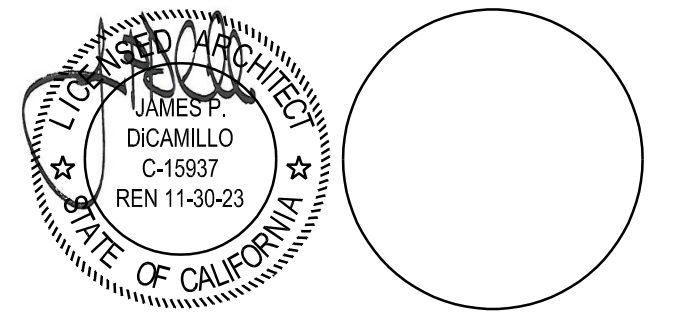
ENLARGED SITE AND FLOOR PLANS

DRAWING NUMBER: A1.3



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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: SA CHECKED: JPD
 DATE: 06/24/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

MISC DETAILS

DRAWING NUMBER: 2.1

			<p>CHANGING STATION: FOUNDATION - MODEL NUMBER 100SSE-SM OR EQUAL - INSTALL PER MANUFACTURER'S INSTRUCTION - OFCI</p> <p>NOTE: - DETECTABLE WARNING SURFACES SHALL COMPLY WITH CBC SECTION 11B-705.1 - DETECTABLE WARNING SURFACES AT TRANSIT BOARDING PLATFORM EDGES, BUS STOPS, HAZARDOUS VEHICULAR AREAS, REFLECTING POOLS, AND TRACK CROSSINGS SHALL BE YELLOW AND APPROXIMATE OF 3358 OF FED STD 595C. DETECTABLE WARNING SURFACES AT OTHER LOCATIONS SHALL BE EITHER THE APPROVED YELLOW OR A COLOR PROVIDING A 70% MIN VISUAL CONTRAST WITH THAT OF ADJACENT WALKING SURFACES. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE. CBC 11B-705.1.3 - DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJACENT SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT. SUCH CONSTRAINT SHALL NOT BE REQUIRED FOR DETECTABLE WARNING SURFACES AT CURB RAMP, ISLANDS, OR CUT-THRU MEDIANS. CBC 11B-705.1.4</p> <p>TRUNCATED DOME LAYOUT</p> <p>TRUNCATED DOME PANEL FLUSH WITH CONC PAVING, TYP</p> <p>CONC CURB FLUSH W/ TRUNCATED DOME PANEL AND ASPHALT PAVING, TYP</p> <p>ASPHALT PAVING WHERE OCCURS, TYP</p> <p>TYP SECTION @ TRUNCATED DOMES</p>	<p>CHANGING STATION 3/4"=1'-0" 9</p>	<p>PARKING SIGN 1/2"=1'-0" 5</p> <p>0.080" THK AL SIGN PAINTED W/ BLUE REFLECTORIZED PAINT NO.15090 PER SAE AMS-STND-595</p> <p>INTERNATIONAL SYMBOL OF ACCESSIBILITY AND GRAPHICS REF CBC SEC 11B-703.7.2.1 PAINTED W/ WHITE REFLECTORIZED PAINT - GRAPHICS AS FOLLOWS: "ACCESSIBLE PARKING" - MINIMUM FINE \$250 "2" HIGH LETTERS</p> <p>3 - #10 x 3/4" SELF TAPPING VANDAL PROOF SCREWS</p> <p>2" DIA STD WT STL PIPE POST - GALV</p> <p>FIN GRADE OR PAVING - REF SITE PLAN</p> <p>1"-0" DIA CONC FTG - SLOPE TOP TO DRAIN</p> <p>NOTE: MOUNT SIGN ON ADJACENT MAS WALL W/ 1/4" DIA EXPANSION BOLTS IN LOCATION AS INDICATED ON PLAN.</p>	<p>TYPICAL CONCRETE PAVING 1 1/2"=1'-0" 1</p> <p>1/4" RAD BOTH SIDES, TYP</p> <p>CAULKING, TYP</p> <p>PRE-MOLDED EXPANSION JOINT @ 24" OC MAX ALL DIRECTION, TYP</p> <p>1" @ LAWN AREAS, 1-1/2" @ PLANTER AREAS TYP, UNO</p> <p>CONC PAVING PER PLAN, TYP</p> <p>1/2" RAD TYP</p> <p>NOTE: ADJACENT PAVING WHERE OCCURS TO BE FLUSH WITH TOP EDGE OF SLAB, TYP</p> <p>(C) (EJ) EXPANSION JOINT (A) SLAB EDGE</p> <p>EXT WALL LINE, TYP</p> <p>PRE-MOLDED EXPANSION JOINT MATERIAL, TYP</p> <p>1/2" MAX SAW CUT, AT 8" O.C. MAX</p> <p>#4 BAR @ 18" OC EA WAY, TYP</p> <p>CONC PAVING PER PLAN, TYP</p> <p>(D) (EJ) EXPANSION JOINT (B) (CJ) CONTROL JOINT</p>
21	17	<p>TRUNCATED DOME 1-1/2"=1'-0" 10</p> <p>TILE JOINT, FLUSH CONDITION, TYP</p> <p>NOTE: - DETECTABLE WARNING SURFACES SHALL COMPLY WITH CBC SECTION 11B-705.1 - DETECTABLE WARNING SURFACES AT TRANSIT BOARDING PLATFORM EDGES, BUS STOPS, HAZARDOUS VEHICULAR AREAS, REFLECTING POOLS, AND TRACK CROSSINGS SHALL BE YELLOW AND APPROXIMATE OF 3358 OF FED STD 595C. DETECTABLE WARNING SURFACES AT OTHER LOCATIONS SHALL BE EITHER THE APPROVED YELLOW OR A COLOR PROVIDING A 70% MIN VISUAL CONTRAST WITH THAT OF ADJACENT WALKING SURFACES. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE. CBC 11B-705.1.3 - DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJACENT SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT. SUCH CONSTRAINT SHALL NOT BE REQUIRED FOR DETECTABLE WARNING SURFACES AT CURB RAMP, ISLANDS, OR CUT-THRU MEDIANS. CBC 11B-705.1.4</p> <p>TRUNCATED DOME PANEL FLUSH WITH CONC PAVING, TYP</p> <p>CONC CURB FLUSH W/ TRUNCATED DOME PANEL AND ASPHALT PAVING, TYP</p> <p>ASPHALT PAVING WHERE OCCURS, TYP</p> <p>TYP SECTION @ TRUNCATED DOMES</p>	<p>PARKING SIGN 1/2"=1'-0" 6</p> <p>0.080" THK AL SIGN PAINTED W/ BLUE REFLECTORIZED PAINT NO. 15090 PER SAE AMS-STND-595</p> <p>INTERNATIONAL SYMBOL OF ACCESSIBILITY AND GRAPHICS REF CBC SEC 11B-703.7.2.1 PAINTED W/ WHITE REFLECTORIZED PAINT - GRAPHICS AS FOLLOWS: "ACCESSIBLE PARKING" - MINIMUM FINE \$250 "2" HIGH LETTERS</p> <p>3 - #10 x 3/4" SELF TAPPING VANDAL PROOF SCREWS</p> <p>ADDITIONAL SIGN PAINTED W/ WHITE REFLECTORIZED PAINT GRAPHICS AS FOLLOWS: "VAN ACCESSIBLE" - "2" HIGH LETTERS</p> <p>2" DIA STD WT STL PIPE POST - GALV</p> <p>FIN GRADE OR PAVING, REFER TO SITE PLAN</p> <p>1"-0" DIA CONC FTG - SLOPE TOP TO DRAIN</p> <p>NOTE: MOUNT SIGN ON ADJACENT MAS WALL W/ 1/4" DIA EXPANSION BOLTS IN LOCATION AS INDICATED ON PLAN.</p>	<p>(N) CONC PAVEMENT JOINT TO (E) 1 1/2"=1'-0" 2</p> <p>FLUSH TRANSITION WITH 1/4" RAD MAX</p> <p>CONC PAVEMENT OVER CMB PER CIVIL DRAWING</p> <p>ASPHALT PAVING OVER CLASS 2 BASE PER CIVIL DRAWING</p> <p>90% COMPACTED NATIVE</p> <p>(N) 1/2" EXP JOINT W/ CONT CAULK</p> <p>(E) CONC PAD TO REMAIN</p> <p>2" CAP</p> <p>(2) #4 CONT</p> <p>8" CMU SOLID GROUT</p> <p>#5 AT 18" O.C.</p> <p>#5 CONT</p> <p>C.L FENCE POST WHERE OCCURS</p> <p>#5 AT 18" O.C.</p> <p>(3) #5 CONT TOP AND BOTTOM</p> <p>1'-10" F.V.</p> <p>1'-0" MIN</p> <p>1'-0" MIN</p> <p>2'-0"</p> <p>C.L FENCE POST CONC FOOTING WHERE OCCURS 12" DIA X 36" DEEP</p> <p>FLUSH TRANSITION WITH 1/4" RAD BOTH SIDES - TYP</p> <p>12" EXP JOINT WITH CAULK - CONT</p> <p>(N) CON SIDEWALK OVER CMB PER CIVIL DRAWING OR AC PAV WHERE OCCURS</p> <p>(N) PERIMETER CURB BY PLAY EQUIP MANUF.</p> <p>(N) SAFETY RUBBER SURFACING OVER CLASS 2 BASE BY PLAY EQUIP MANUF.</p> <p>GRADE LINE WHERE OCCURS</p> <p>90% COMPACTED NATIVE</p> <p>(N) DOWEL PER DET 24</p> <p>(N) PERIMETER CURB BY PLAY EQUIP MANUF.</p> <p>(N) SAFETY RUBBER SURFACING OVER CLASS 2 BASE BY PLAY EQUIP MANUF.</p> <p>3'-4"</p> <p>3'-0"</p> <p>3'-0"</p> <p>3'-0"</p> <p>NOTES: 1) ALL STROKES TO BE 2" WIDE W/ WHITE PAINT 2) PROVIDE 2 (TWO) COATS OF PAINT 3) BACKGROUND COLOR TO BE BLUE NO. 15090 PER SAE AMS-STND-595 4) LOCATE SYMBOL AT CENTER OF ACC PARKING STALL WHERE SHOWN ON SITE PLAN 5) INTERNATIONAL SYMBOL OF ACCESSIBILITY REF CBC SEC 11B-703.7.2.1</p> <p>FIGURE AND STRIPE TO BE WHITE</p> <p>BACKGROUND TO BE BLUE</p> <p>1'-0" LEVEL</p> <p>1'-0" LEVEL</p> <p>1'-0" LEVEL</p> <p>1 1/2" O.D. x 0.75" PIPE RAIL, TYP</p> <p>POST AT 48" O.C MAX</p> <p>NEW 5" CONC PAVING, TYP</p> <p>#4 AT 18" O.C. EW PIPE SLEEVE, TYP</p> <p>12" DIA CONC FOOTING, TYP</p> <p>NOTE: 1. 1/2" O.D. x 0.75" STL POST @ 4'-0" OC MAX W/ 2" DIA GALV PIPE SLEEVE W/ BOTT CAP, FILL W/ POR-ROK, TYP 2. ALL METAL COMPONENTS TO BE GALV & PAINTED, TYP</p>		
22	18	<p>CONC PAVEMENT TO ASPHALT TRANS 1"=1'-0" 15</p> <p>FLUSH TRANSITION WITH 1/4" RAD MAX</p> <p>CONC PAVEMENT OVER CMB PER CIVIL DRAWING</p> <p>ASPHALT PAVING OVER CLASS 2 BASE PER CIVIL DRAWING</p> <p>90% COMPACTED NATIVE</p>	<p>CMU YARD WALL 1"=1'-0" 11</p> <p>(N) DOWEL PER DET 24</p> <p>(N) PERIMETER CURB BY PLAY EQUIP MANUF.</p> <p>(N) SAFETY RUBBER SURFACING OVER CLASS 2 BASE BY PLAY EQUIP MANUF.</p> <p>GRADE LINE WHERE OCCURS</p> <p>90% COMPACTED NATIVE</p>	<p>METL RAILING @ D.F. 1"=1'-0" 3</p> <p>WALL FINISH FACE</p> <p>1'-0" x 0.75" DIA STD WT STL PIPE POST - GALV</p> <p>3/16" THK PLATE, 4-1/2" SQ, DRILLED FOR 3/8" DIA BOLTS (N) 3/8" HLT KB3 W/ 3" MIN EMBED INTO CONCRETE</p> <p>CONC PAVING, REFER TO SITE PLAN</p> <p>BASE PLATE</p> <p>NOTE: GRIND ALL WELDS SMOOTH, TYP</p>		
24	20	<p>CONC CURB TRANSITION IN PLAY EQUIP 1"=1'-0" 12</p> <p>FLUSH TRANSITION WITH 1/4" RAD BOTH SIDES - TYP</p> <p>12" EXP JOINT WITH CAULK - CONT</p> <p>(N) CON SIDEWALK OVER CMB PER CIVIL DRAWING OR AC PAV WHERE OCCURS</p> <p>(N) PERIMETER CURB BY PLAY EQUIP MANUF.</p> <p>(N) SAFETY RUBBER SURFACING OVER CLASS 2 BASE BY PLAY EQUIP MANUF.</p> <p>GRADE LINE WHERE OCCURS</p> <p>90% COMPACTED NATIVE</p> <p>(N) DOWEL PER DET 24</p> <p>(N) PERIMETER CURB BY PLAY EQUIP MANUF.</p> <p>(N) SAFETY RUBBER SURFACING OVER CLASS 2 BASE BY PLAY EQUIP MANUF.</p>	<p>ACCESS SIGN 3/4"=1'-0" 8</p> <p>FIGURE AND STRIPE TO BE WHITE</p> <p>BACKGROUND TO BE BLUE</p>	<p>RAMP & HANDRAIL DETAIL N.T.S 4</p>		

PARTIAL SITE DEVELOPMENT PLAN

HOLLINGWORTH ELEMENTARY SCHOOL

3003 HOLLINGWORTH STREET, WEST COVINA, CA 91792

GENERAL GRADING NOTES

- ALL GRADING AND CONSTRUCTION SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODES AND THE STATE MODEL WATER EFFICIENCY LANDSCAPE ORDINANCE UNLESS SPECIFICALLY NOTED ON THESE PLANS.
 - ANY MODIFICATIONS OF OR CHANGES TO APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.
 - NO GRADING SHALL BE STARTED WITHOUT FIRST NOTIFYING THE BUILDING OFFICIAL. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE THE START OF THE GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, GEOLOGIST, COUNTY GRADING INSPECTOR(S) OR THEIR REPRESENTATIVES, AND WHEN REQUIRED, THE ARCHITECTS OR OTHER JURISDICTIONAL AGENCIES PERMITEE OR HIS AGENT. ALL RESPONSIBLE FOR ARRANGING PRE-GRADING MEETING AND MUST NOTIFY THE BUILDING OFFICIAL AT LEAST TWO BUSINESS DAYS PRIOR TO PROPOSED PRE-GRADING MEETING.
 - APPROVAL OF THESE PLANS REFLECTS SOLELY THE REVIEW OF PLANS IN ACCORDANCE WITH THE COUNTY OF LOS ANGELES BUILDING CODES AND DOES NOT REFLECT ANY POSITION BY THE COUNTY OF LOS ANGELES OR THE DEPARTMENT OF PUBLIC WORKS REGARDING THE STATUS OF ANY TITLE ISSUES RELATING TO THE LAND ON WHICH THE IMPROVEMENTS MAY BE CONSTRUCTED. ANY DISPUTES RELATING TO TITLE ARE SOLELY A PRIVATE MATTER NOT INVOLVING THE COUNTY OF LOS ANGELES OR THE DEPARTMENT OF PUBLIC WORKS.
 - ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH COUNTY OF LOS ANGELES CODE, TITLE 12, SECTION 12.12.030 THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00 PM TO 6:30 AM, AND ON SUNDAYS AND HOLIDAYS. (MORE RESTRICTIVE CONSTRUCTION ACTIVITY TIMES MAY GOVERN, AS REQUIRED BY THE DEPARTMENT OF REGIONAL PLANNING AND SHOULD BE SHOWN ON THE GRADING PLANS WHEN APPLICABLE).
 - CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OR DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL THE FOLLOWING MEASURES HAVE BEEN TAKEN:
 - THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED, AND
 - IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.
 - THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITEE.
 - ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMP SITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMP SITE ARE REQUIRED AND MUST BE PROVIDED TO THE BUILDING OFFICIAL UPON REQUEST.
 - A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
 - SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY FIELD ENGINEER OR LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE BUILDING OFFICIAL, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
 - NO GRADING OR CONSTRUCTION SHALL OCCUR WITHIN THE PROTECTED ZONE OF ANY OAK TREE AS REQUIRED PER TITLE CHAPTER 22.56 OF THE COUNTY OF LOS ANGELES ZONING CODE. THE PROTECTED ZONE SHALL MEAN THAT AREA WITHIN THE DRIP LINE OF AN OAK TREE EXTENDING THEREFROM A POINT AT LEAST FIVE FEET OUTSIDE THE DRIP LINE, OR 15 FEET FROM THE TRUNK(S) OF A TREE, WHICHEVER IS GREATER.
 - THE STANDARD RETAINING WALL DETAILS SHOWN ON THE GRADING PLANS ARE FOR REFERENCE ONLY. STANDARD RETAINING WALLS ARE NOT CHECKED, PERMITTED, OR INSPECTED FOR THE GRADING PERMIT. A SEPARATE RETAINING WALL PERMIT IS REQUIRED FOR ALL STANDARD RETAINING WALLS.
- NOTE: THIS NOTE ONLY APPLIES TO STANDARD RETAINING WALLS. GEOTEXTILE FABRIC AND SEGMENTAL RETAINING WALLS DO NOT REQUIRE A SEPARATE RETAINING WALL PERMIT. DETAILS AND CONSTRUCTION NOTES FOR ALL GEOTEXTILE WALLS MUST BE ON THE GRADING PLAN.
- A PREVENTIVE PROGRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED PER SECTION J101.8 OF THE COUNTY OF LOS ANGELES BUILDING CODE. OWNER IS TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF BURROWING RODENTS AND A FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL.
 - IF GRADING AUTHORIZED BY THIS PLAN IS TO EXTEND THROUGH THE RAINY SEASON, NOVEMBER 1 THROUGH APRIL 15 OF THE FOLLOWING YEAR, SEPARATE UPDATED PLANS FOR EROSION CONTROL MUST BE SUBMITTED PRIOR TO OCTOBER PER SECTION J111.3 OF THE COUNTY OF LOS ANGELES BUILDING CODE.
 - TRANSFER OF RESPONSIBILITY: IF THE FIELD ENGINEER, THE SOILS ENGINEER, OR THE ENGINEERING GEOLOGIST OF RECORD IS CHANGED DURING GRADING, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THEIR RESPONSIBILITY WITHIN THE AREA OF TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITEE TO NOTIFY THE BUILDING OFFICIAL IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF SUCH GRADING.

INSPECTION NOTES:

- THE PERMITEE OR HIS AGENT SHALL NOTIFY THE BUILDING OFFICIAL AT LEAST ONE WORKING DAY IN ADVANCE OF REQUIRED INSPECTIONS AT THE FOLLOWING STAGES OF THE WORK. (SECTION J105.7 OF THE BUILDING CODE)
 - PRE-GRADING** - BEFORE THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION.
 - INITIAL** - WHEN THE SITE HAS BEEN CLEARED OF VEGETATION AND UNAPPROVED FILL HAS BEEN SCARIFIED, BENCHED OR OTHERWISE PREPARED FOR FILL. FILL SHALL NOT BE PLACED PRIOR TO THIS INSPECTION. NOTE: PRIOR TO ANY CONSTRUCTION ACTIVITIES INCLUDING GRADING, ALL STORM WATER POLLUTION PREVENTION MEASURES INCLUDING EROSION CONTROL DEVICES WHICH CONTAINS SEDIMENTS MUST BE INSTALLED.
 - ROUGH** - WHEN APPROXIMATE FINAL ELEVATIONS HAVE BEEN ESTABLISHED, DRAINAGE TERRACES, SWALES AND BERMS INSTALLED AT THE TOP OF THE SLOPE; AND THE STATEMENTS REQUIRED IN THIS SECTION HAVE BEEN REVEALED.
 - FINAL** - WHEN GRADING HAS BEEN COMPLETED, ALL DRAINAGE DEVICES INSTALLED, SLOPE PLANTING ESTABLISHED, IRRIGATION SYSTEMS INSTALLED AND THE AS-BUILT PLANS, REQUIRED STATEMENTS, AND REPORTS HAVE BEEN SUBMITTED AND APPROVED.
- IN ADDITION TO THE INSPECTION REQUIRED BY THE BUILDING OFFICIAL FOR GRADING, REPORTS AND STATEMENTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IN ACCORDANCE WITH SECTION J105 OF THE COUNTY OF LOS ANGELES BUILDING CODE.
- UNLESS OTHERWISE DIRECTED BY THE BUILDING OFFICIAL, THE FIELD ENGINEER FOR ALL ENGINEERED GRADING PROJECTS SHALL PREPARE ROUTINE INSPECTION REPORTS AS REQUIRED UNDER SECTION J105.11 OF THE COUNTY OF LOS ANGELES BUILDING CODE. THESE REPORTS KNOWN AS "REPORT OF GRADING ACTIVITIES", SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS FOLLOWS:
 - BI-WEEKLY DURING ALL TIMES WHEN GRADING OF 400 CUBIC YARDS OR MORE PER WEEK IS OCCURRING ON THE SITE;
 - MONTHLY, AT ALL OTHER TIMES; AND
 - AT ANY TIME WHEN REQUESTED IN WRITING BY THE BUILDING OFFICIAL.

- SUCH "REPORTS OF GRADING ACTIVITIES" SHALL CERTIFY TO THE BUILDING OFFICIAL THAT THE FIELD ENGINEER HAS INSPECTED THE GRADING SITE AND RELATED ACTIVITIES AND HAS FOUND THEM IN COMPLIANCE WITH THE APPROVED GRADING PLANS AND SPECIFICATIONS, THE BUILDING CODE, ALL GRADING PERMIT CONDITIONS, AND ALL OTHER APPLICABLE ORDINANCES AND REQUIREMENTS. THIS FORM IS AVAILABLE AT THE FOLLOWING WEBSITE: <http://www.seaboardeng.com/insp/grading-reports>. "REPORT OF GRADING ACTIVITIES" MAY BE SCANNED AND UPLOADED AT THE WEBSITE OR FAXED TO (310) 530-5482. FAILURE TO PROVIDE REQUIRED INSPECTION REPORTS WILL RESULT IN A "STOP WORK ORDER".
- ALL GRADED SITES MUST HAVE DRAINAGE SWALES, BERMS AND OTHER DRAINAGE DEVICES INSTALLED PRIOR TO ROUGH GRADING APPROVAL PER SECTION J105.7 OF THE COUNTY OF LOS ANGELES BUILDING CODE.
 - THE GRADING CONTRACTOR SHALL SUBMIT THE STATEMENT TO THE GRADING INSPECTOR AS REQUIRED BY SECTION J105.12 OF THE COUNTY OF LOS ANGELES BUILDING CODE AT THE COMPLETION OF ROUGH GRADING.
 - FINAL GRADING MUST BE APPROVED BEFORE OCCUPANCY OF BUILDINGS WILL BE ALLOWED PER SECTION J105 OF THE COUNTY OF LOS ANGELES BUILDING CODE.

DRAINAGE NOTES:

- ROOF DRAINAGE MUST BE DIVERTED FROM GRADED SLOPES.
- PROVISIONS SHALL BE MADE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.
- ALL CONSTRUCTION AND GRADING WITHIN A STORM DRAIN EASEMENT ARE TO BE DONE PER PRIVATE DRAIN PD NO. _____ OR MISCELLANEOUS TRANSFER DRAIN MTD NO. _____ - NOT APPLICABLE.
- ALL STORM DRAIN WORK IS TO BE DONE UNDER CONTINUOUS INSPECTION BY THE FIELD ENGINEER. STATUS REPORTS REQUIRED UNDER NOTE 18 AND SECTION J105.11 OF THE COUNTY OF LOS ANGELES BUILDING CODE SHALL INCLUDE INSPECTION INFORMATION AND REPORTS ON THE STORM DRAIN INSTALLATION.

AGENCY NOTES

- AN ENCROACHMENT PERMIT FROM LOS ANGELES COUNTY IS REQUIRED FOR ALL WORK WITHIN OR AFFECTING RIGHT OF WAY. ALL WORK WITHIN ROAD RIGHT OF WAY SHALL CONFORM TO THE COUNTY OF LOS ANGELES ENCROACHMENT PERMIT.
- AN ENCROACHMENT PERMIT/CONNECTION PERMIT IS REQUIRED FROM THE COUNTY OF LOS ANGELES FLOOD CONTROL DISTRICT FOR ALL WORK WITHIN THE COUNTY FLOOD CONTROL DISTRICT RIGHT OF WAY. ALL WORK SHALL CONFORM TO CONDITIONS SET BY THE PERMIT.
- PERMISSION TO OPERATE IN VERY HIGH FIRE HAZARD SEVERITY ZONE MUST BE OBTAINED FROM THE FIRE PREVENTION BUREAU OR THE LOCAL FIRE STATION PRIOR TO COMMENCING WORK.
- ALL WORK WITHIN THE STREAMBED AND AREAS OUTLINED ON THE GRADING PLANS SHALL CONFORM TO:
 - ARMY CORP 404 PERMIT NO. : N/A
 - CALIFORNIA FISH & GAME PERMIT NO. : N/A
- ALL CONSTRUCTION / DEMOLITION, GRADING, AND STORAGE OF BULK MATERIALS MUST COMPLY WITH THE LOCAL AQMD RULE 403 FOR FUGITIVE DUST. INFORMATION ON RULE 403 IS AVAILABLE AT AQMD'S WEBSITE: <http://www.aqmd.com>.

GENERAL GEOTECHNICAL NOTES

- ALL WORK MUST BE IN COMPLIANCE WITH THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL CONSULTANT'S REPORT(S) AND THE APPROVED GRADING PLANS AND SPECIFICATIONS.
- GRADING OPERATIONS MUST BE CONDUCTED UNDER PERIODIC INSPECTIONS BY THE GEOTECHNICAL CONSULTANTS WITH MONTHLY INSPECTION REPORTS TO BE SUBMITTED TO THE GEOLOGY AND SOILS SECTION. (900 S. FREMONT, ALHAMBRA, CA 91803 - 3RD FLOOR)
- THE SOIL ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENTS.
- ROUGH GRADING MUST BE APPROVED BY A FINAL ENGINEERING GEOLOGIST AND SOILS ENGINEERING REPORT. AN AS-BUILT GEOLOGIC MAP MUST BE INCLUDED IN THE FINAL GEOLOGY REPORT. PROVIDE A FINAL REPORT STATEMENT THAT VERIFIES THAT WORK WAS DONE IN ACCORDANCE WITH REPORT RECOMMENDATIONS AND CODE PROVISIONS. (SECTION J105.12 OF THE COUNTY OF LOS ANGELES BUILDING CODE). THE FINAL REPORT(S) MUST BE SUBMITTED TO THE GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION FOR REVIEW AND APPROVAL.
- FOUNDATION, WALL AND POOL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE CONSULTING GEOLOGIST AND SOIL ENGINEER, PRIOR TO THE PLACING OF STEEL OR CONCRETE.
- BUILDING PADS LOCATED IN CUT/FILL TRANSITION AREAS SHALL BE OVER-EXCAVATED A MINIMUM OF THREE (3) FEET BELOW THE PROPOSED BOTTOM OF FOOTING.

FILL NOTES

- ALL FILL SHALL BE COMPACTED TO THE FOLLOWING MINIMUM RELATIVE COMPACTION CRITERIA:
 - 90 PERCENT OF MAXIMUM DRY DENSITY WITHIN 40 FEET BELOW FINISH GRADE.
 - 93 PERCENT OF MAXIMUM DRY DENSITY DEEPER THAN 40 FEET BELOW FINISH GRADE, UNLESS A LOWER RELATIVE COMPACTION (NOT LESS THAN 90 PERCENT OF MAXIMUM DRY DENSITY) IS JUSTIFIED BY THE GEOTECHNICAL ENGINEER.
 THE RELATIVE COMPACTION SHALL BE DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557-91 WHERE APPLICABLE. WHERE NOT APPLICABLE, A TEST ACCEPTABLE TO THE BUILDING OFFICIAL SHALL BE USED (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE.)
 - 95 PERCENT OF MAXIMUM DRY DENSITY IS REQUIRED FOR ALL FILL LANE UNLESS OTHERWISE APPROVED BY THE FIRE DEPT.
- FIELD DENSITY SHALL BE DETERMINED BY A METHOD ACCEPTABLE TO THE BUILDING OFFICIAL. (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE) HOWEVER, NOT LESS THAN 10% OF THE REQUIRED DENSITY TEST, UNIFORMLY DISTRIBUTED, SHALL BE OBTAINED BY THE SAND CONE METHOD.
- SUFFICIENT TESTS OF THE FILL SOILS SHALL BE MADE TO DETERMINE THE RELATIVE COMPACTION OF THE FILL IN ACCORDANCE WITH THE FOLLOWING MINIMUM GUIDELINES:
 - ONE TEST FOR EACH TWO-FOOT VERTICAL LIFT.
 - ONE TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED.
 - ONE TEST AT THE LOCATION OF THE FINAL FILL SLOPE FOR EACH BUILDING SITE (LOT) IN EACH FOUR-FOOT VERTICAL LIFT OR PORTION THEREOF.
 - ONE TEST IN THE VICINITY OF EACH BUILDING PAD FOR EACH FOUR-FOOT VERTICAL LIFT OR PORTION THEREOF.
- SUFFICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIFY THAT THE SOIL PROPERTIES COMPLY WITH THE DESIGN REQUIREMENTS, AS DETERMINED BY THE SOIL ENGINEER INCLUDING SOIL TYPES, SHEAR STRENGTH PARAMETERS AND CORRESPONDING UNIT WEIGHTS IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:
 - PRIOR AND SUBSEQUENT TO PLACEMENT OF THE FILL, SHEAR TESTS SHALL BE TAKEN ON EACH TYPE OF THE SOIL MIXTURE TO BE USED FOR ALL FILL SLOPES STEEPER THAN (3) HORIZONTAL TO ONE VERTICAL.
 - SHEAR TEST RESULTS FOR THE PROPOSED FILL MATERIAL MUST MEET OR EXCEED THE DESIGN VALUES USED IN THE GEOTECHNICAL REPORT TO DETERMINE SLOPE STABILITY REQUIREMENTS. OTHERWISE, THE SLOPES MUST BE RE-EVALUATED USING THE ACTUAL SHEAR TEST VALUE OF THE FILL MATERIAL THAT IS IN PLACE.
 - FILL SOILS SHALL BE FREE OF DELETERIOUS MATERIALS.

- FILL SHALL NOT BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUB-DRAIN (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE SOIL ENGINEER. THE BUILDING OFFICIAL MAY REQUIRE A "STANDARD TEST METHOD FOR MOISTURE, ASA, ORGANIC MATTER, PEAT OR OTHER ORGANIC SOILS" ASTM D-2974-87 ON ANY SUSPECT MATERIAL. DETRIMENTAL AMOUNTS OF ORGANIC MATERIAL SHALL NOT BE PERMITTED IN FILLS. SOIL CONTAINING SMALL AMOUNTS OF ROOTS MAY BE ALLOWED PROVIDED THAT THE ROOTS ARE IN A QUANTITY AND DISTRIBUTED IN A MANNER THAT WILL NOT BE DETRIMENTAL TO THE FUTURE USE OF THE SITE AND THE SOILS ENGINEER APPROVES THE USE OF SUCH MATERIAL.
- ROCK OR SIMILAR MATERIAL GREATER THAN 12 INCHES IN DIAMETER SHALL NOT BE PLACED IN THE FILL UNLESS RECOMMENDATION HAS BEEN SUBMITTED BY THE SOIL ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL. LOCATION, EXTENT, AND ELEVATION OF ROCK DISPOSAL AREAS MUST BE SHOWN ON AN "AS-BUILT" GRADING PLAN.
- CONTINUOUS INSPECTION BY THE SOIL ENGINEER, OR A RESPONSIBLE REPRESENTATIVE, SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS. WHERE FILLS HAVE A DEPTH GREATER THAN 30 FEET OR SLOPE SURFACE STEEPER THAN 2:1, (SECTION J107.8 OF THE COUNTY OF LOS ANGELES BUILDING CODE).
- CONTINUOUS INSPECTION BY THE SOIL ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL SUB DRAIN INSTALLATIONS. (SECTION J107.2 OF THE COUNTY OF LOS ANGELES BUILDING CODE).
- ALL SUBDRAIN OUTLETS ARE TO BE SURVEYED FOR LINE AND ELEVATION. SUBDRAIN INFORMATION MUST BE SHOWN ON AN "AS-BUILT" GRADING PLAN.
- FILL SLOPES IN EXCESS OF 2:1 STEEPNESS RATIO ARE TO BE CONSTRUCTED BY THE PLACEMENT OF SOIL AT SUFFICIENT DISTANCE BEYOND THE PROPOSED FINISHED SLOPE TO ALLOW COMPACTION EQUIPMENT TO BE OPERATED AT THE OUTER LIMITS OF THE FINISH SLOPE SURFACE. THE EXCESS FILL IS TO BE REMOVED PRIOR TO COMPLETION OF ROUGH GRADING. OTHER CONSTRUCTION PROCEDURES MAY BE USED WHEN IT IS DEMONSTRATED TO THE SATISFACTION OF THE BUILDING OFFICIAL THAT THE ANGLE OF SLOPE, CONSTRUCTION METHOD AND OTHER FACTORS WILL HAVE EQUIVALENT EFFECT. (SECTION J107.5 OF THE COUNTY OF LOS ANGELES BUILDING CODE)

PLANTING AND IRRIGATION NOTES:

- PLANTING AND IRRIGATION ON GRADED SLOPES MUST COMPLY WITH THE FOLLOWING MINIMUM GUIDELINES:
 - THE SURFACE OF ALL CUT SLOPES MORE THAN 5 FEET IN HEIGHT AND FILL SLOPES MORE THAN 3 FEET IN HEIGHT SHALL BE PROTECTED AGAINST DAMAGE BY EROSION BY PLANTING WITH GRASS OR GROUNDCOVER PLANTS. SLOPES EXCEEDING 10 FEET IN VERTICAL HEIGHT SHALL ALSO BE PLANTED WITH SHRUBS, SPACED AT NOT TO EXCEED 10 FEET ON CENTERS, OR TREES, SPACED AT NOT TO EXCEED 20 FEET ON CENTERS, OR A COMBINATION OF SHRUBS AND TREES AT EQUIVALENT SPACING, IN ADDITION TO THE GRASS OR GROUNDCOVER PLANTS. THE PLANTS SELECTED AND PLANTING METHODS USED SHALL BE SUITABLE FOR THE SOIL AND CLIMATIC CONDITIONS OF THE SITE. PLANT MATERIAL SHALL BE SELECTED WHICH WILL PROVIDE A COVERAGE OF PERMANENT PLANTING EFFECTIVELY CONTROLLING EROSION. CONSIDERATION SHALL BE GIVEN TO DEEP-ROOTED PLANTING MATERIAL NEEDING LIMITED WATERING, MAINTENANCE, HIGH ROOT TO SHOOT RATIO, WIND SUSCEPTIBILITY AND FIRE-RETARDANT CHARACTERISTICS. ALL PLANT MATERIALS MUST BE APPROVED BY THE BUILDING OFFICIAL. (SECTION J103.3 OF THE COUNTY OF LOS ANGELES BUILDING CODE)

NOTE: PLANTING MAY BE MODIFIED FOR THE SITE IF SPECIFIC RECOMMENDATIONS ARE PROVIDED BY BOTH THE SOILS ENGINEER AND A LANDSCAPE ARCHITECT. SPECIFIC RECOMMENDATIONS MUST CONSIDER SOILS AND CLIMATIC CONDITIONS, IRRIGATION REQUIREMENTS, PLANTING METHODS, FIRE RETARDANT CHARACTERISTICS, WATER EFFICIENCY, MAINTENANCE NEEDS, AND OTHER REGULATORY REQUIREMENTS. RECOMMENDATIONS MUST INCLUDE A FINDING THAT THE ALTERNATIVE PLANTING WILL PROVIDE A PERMANENT AND EFFECTIVE METHOD OF EROSION CONTROL. MODIFICATIONS TO PLANTING MUST BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO INSTALLATION.
 - SLOPES REQUIRED TO BE PLANTED BY SECTION J103.3 SHALL BE PROVIDED WITH AN APPROVED SYSTEM OF IRRIGATION THAT IS DESIGNED TO COVER ALL PORTIONS OF THE SLOPE. IRRIGATION SYSTEM PLANS SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION. A FUNCTIONAL TEST OF THE SYSTEM MAY BE REQUIRED. FOR SLOPES LESS THAN 20 FEET IN VERTICAL HEIGHT, HOSE BIBS TO PERMIT HAND WATERING WILL BE ACCEPTABLE IF SUCH HOSE BIBS ARE INSTALLED AT CONVENIENTLY ACCESSIBLE LOCATIONS WHERE A HOSE NO LONGER THAN 50 FEET IS NECESSARY FOR IRRIGATION. THE REQUIREMENTS FOR PERMANENT IRRIGATION SYSTEMS MAY BE MODIFIED UPON SPECIFIC RECOMMENDATION OF A LANDSCAPE ARCHITECT OR EQUIVALENT AUTHORITY THAT BECAUSE OF THE TYPE OF PLANTS SELECTED, THE PLANTING METHODS USED AND THE SOIL AND CLIMATIC CONDITIONS AT THE SITE, IRRIGATION WILL NOT BE NECESSARY FOR THE MAINTENANCE OF THE SLOPE PLANTING. (SECTION J107.0 OF THE COUNTY OF LOS ANGELES BUILDING CODE)

- OTHER GOVERNMENTAL AGENCIES MAY HAVE ADDITIONAL REQUIREMENTS FOR LANDSCAPING AND IRRIGATION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE WITH OTHER AGENCIES TO MEET THEIR REQUIREMENTS WHILE MAINTAINING COMPLIANCE WITH THE COUNTY OF LOS ANGELES BUILDING CODE.
- THE PLANTING AND IRRIGATION SYSTEMS SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER ROUGH GRADING. PRIOR TO FINAL GRADING APPROVAL, ALL REQUIRED SLOPE PLANTING MUST BE WELL ESTABLISHED. (SECTION J107.0 OF THE COUNTY OF LOS ANGELES BUILDING CODE)
- LANDSCAPE IRRIGATION SYSTEM SHALL BE DESIGNED AND MAINTAINED TO PREVENT SPRAY ON STRUCTURES. (TITLE 31, SECTION 5.407.2.1)
- PRIOR TO ROUGH GRADE APPROVAL THIS PROJECT REQUIRES A LANDSCAPE PERMIT. LANDSCAPE PLANS IN COMPLIANCE WITH THE "MODEL WATER EFFICIENT LANDSCAPE ORDINANCE" TITLE 23, CHAPTER 2.7 OF CALIFORNIA CODE OF REGULATIONS (AB 1881) MUST BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS, LAND DEVELOPMENT DIVISION. (900 S. FREMONT AVE., ALHAMBRA - 3RD FLOOR, CA 91803) (626) 458-4071. TO OBTAIN LANDSCAPE PERMIT APPROVED PLANS AND WATER PURVEYOR ACKNOWLEDGMENT FORM MUST BE SUBMITTED TO THE LOCAL BUILDING AND SAFETY OFFICE.

GEOTECHNICAL NOTES

- THE AREAS TO RECEIVE COMPACTED FILL SHALL BE STRIPPED OF ALL VEGETATION, EXISTING FILL, AND SOFT OR DISTURBED SOILS.
- ALL EXISTING FILL MATERIALS AND ANY SOFT OR DISTURBED SOILS LOCATED WITHIN THE AREAS OF THE PROPOSED BUILDING SHALL BE REMOVED TO EXPOSE UNDISTURBED DENSE NATIVE SOILS. THE PROPOSED BUILDING PAD AREAS SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 3 FEET BELOW THE BOTTOM OF ALL FOUNDATIONS. THE EXCAVATION SHALL EXTEND AT LEAST FIVE FEET BEYOND THE EDGE OF FOUNDATIONS OR FOR A DISTANCE EQUAL TO THE DEPTH OF FILL BELOW THE FOUNDATIONS. WHICHEVER IS GREATER. THE EXCAVATED AREAS SHALL BE OBSERVED BY THE SOILS ENGINEER PRIOR TO PLACING COMPACTED FILL. THE EXPOSED GRADE SHALL THEN BE SCARIFIED TO A DEPTH OF SIX INCHES, MASTERED TO OPTIMUM MOISTURE CONTENT, AND RE-COMPACTED TO 90 PERCENT OF THE MAXIMUM DENSITY.
- FILL CONSISTING OF SOIL APPROVED BY THE SOILS ENGINEER, SHALL BE PLACED IN COMPACTED LAYERS WITH SUITABLE COMPACTION EQUIPMENT. THE EXCAVATED ON-SITE MATERIALS ARE CONSIDERED SATISFACTORY FOR REUSE IN THE CONTROLLED FILLS. ANY IMPORTED FILL SHALL BE OBSERVED BY THE SOILS ENGINEER PRIOR TO USE IN FILL AREAS. ROCKS LARGER THAN THREE INCHES IN DIAMETER SHALL NOT BE USED IN THE FILL.
- THE FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM LABORATORY DENSITY FOR THE MATERIALS USED. THE MAXIMUM DENSITY SHALL BE DETERMINED BY ASTM D 1557-91 OR EQUIVALENT.
- FIELD OBSERVATION AND TESTING SHALL BE PERFORMED BY THE SOILS ENGINEER DURING GRADING TO ASSIST THE CONTRACTOR IN OBTAINING THE REQUIRED DEGREE OF COMPACTION AND THE PROPER MOISTURE CONTENT. WHERE COMPACTION IS LESS THAN REQUIRED, ADDITIONAL COMPACTION EFFORT SHALL BE MADE WITH ADJUSTMENT OF THE MOISTURE CONTENT, AS NECESSARY, UNTIL 90 PERCENT COMPACTION IS OBTAINED.
- UTILITY TRENCHES SHOULD BE PROPERLY BACKFILLED WITH CONTROLLED FILL. THE PIPE SHOULD BE BEDDED WITH SUITABLE NATIVE SOIL TO THE APPROVAL OF SOIL ENGINEER TO AT LEAST SIX INCHES OVER THE PIPE. THE REMAINDER OF THE BACKFILL MAY BE ON-SITE SOIL COMPACTED TO 90 PERCENT AND TESTED IN ACCORDANCE WITH ASTM D-1557.
- ANY VEGETATION OR ASSOCIATED ROOT SYSTEM LOCATED WITHIN THE FOOTPRINT OF THE PROPOSED STRUCTURES SHOULD BE REMOVED DURING GRADING. ANY EXISTING OR ABANDONED UTILITIES LOCATED WITHIN THE FOOTPRINT OF THE PROPOSED STRUCTURES SHOULD BE REMOVED OR RELOCATED. ALL FILL MATERIALS AND DISTURBED SOILS RESULTING FROM GRADING OPERATIONS SHOULD BE REMOVED AND PROPERLY RE-COMPACTED PRIOR TO FOUNDATION EXCAVATION.

UNAUTHORIZED CHANGES AND USES:

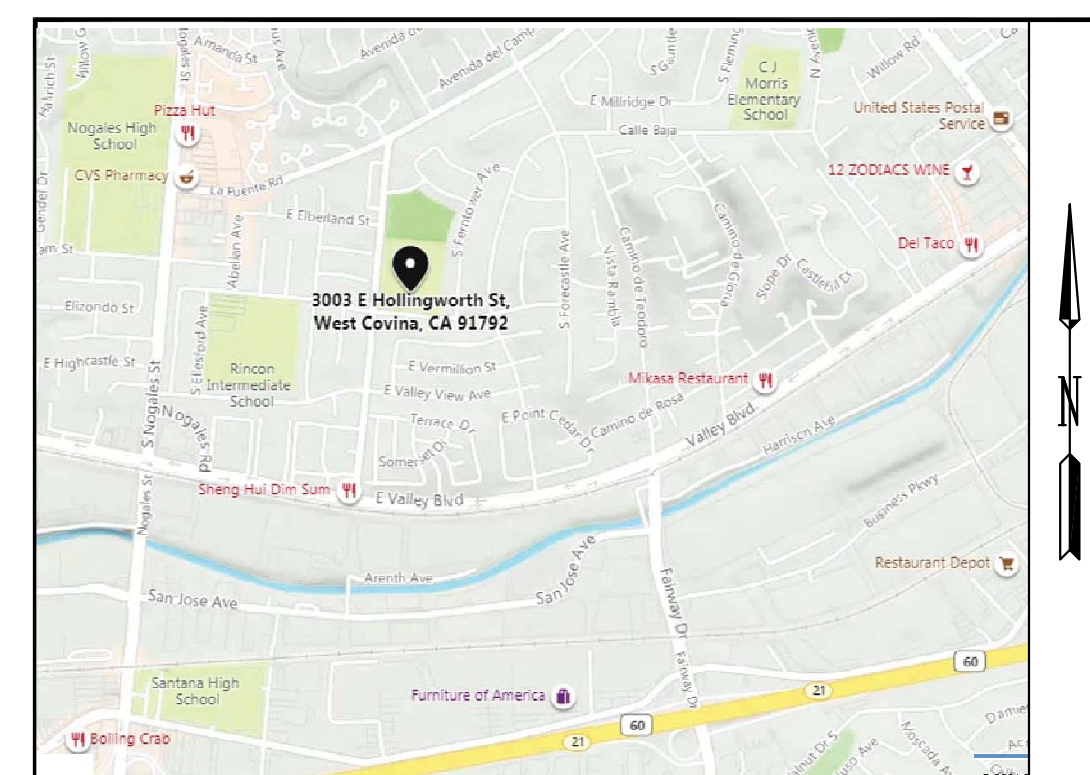
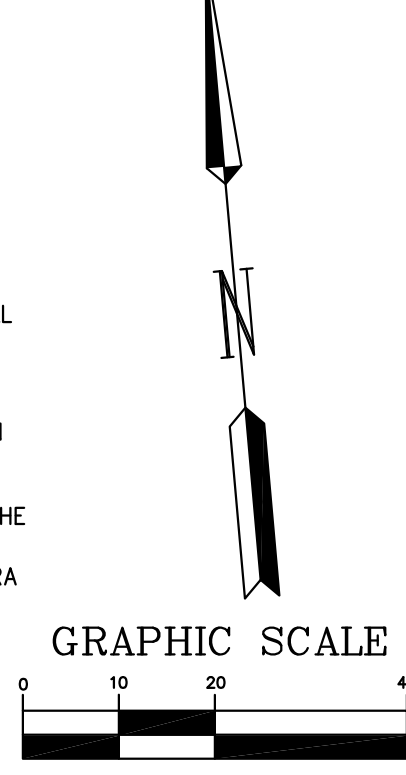
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE RECORD ENGINEER OF THESE PLANS.

- UNDERGROUND UTILITIES AND OTHER SUBSTRUCTURES SHOWN HEREON IS FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM A GENERAL REQUEST AT THE LOCAL AGENCY AND/OR SOURCES NOT CONNECTED WITH THIS COMPANY. NO GUARANTEE, WARRANTY OR REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION.

LANDSCAPE PLANS MUST BE APPROVED AND A LANDSCAPE PERMIT ISSUED PRIOR TO ROUGH GRADE APPROVAL.

INDEX

- C-1 TITLE PAGE
- C-2 SITE, BOUNDARY, TOPOGRAPHIC SURVEY
- C-3 PAVING & DRAINAGE PLAN
- C-4 PAVING DETAIL PLAN - 10 SCALE
- C-5 PAVING DETAILS
- C-6 WATER AND SEWER PLAN



BASIS OF BEARING:

THE BEARING NORTH 84°56'30" WEST OF THE CENTERLINE OF HOLLINGWORTH STREET AS SHOWN ON TRACT NO. 27666, AS PER MAP FILED IN BOOK 705, PAGES 64 THROUGH 70 INCLUSIVE OF MAPS, RECORDS OF LOS ANGELES COUNTY, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

BENCHMARK:

REFERENCE: LOS ANGELES COUNTY PUBLIC WORKS SURVEY SECTION
 BM NUMBER: 465641
 QUAD/YEAR: 22013
 ELEVATION: 474.386
 DESCRIPTION: L&RCE TAG #5828 IN E. CURB, 1FT N/O ECR @ NE COR C/L INT VALLEY BLVD & SENTOUS ST

LEGEND:

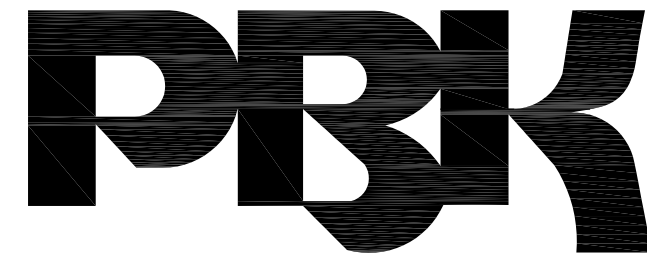
- AC - ASPHALT CONCRETE
- CF - CURB FACE
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- CONC - CONCRETE
- DI - DRAIN INLET
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- EPNL - ELECTRIC PANEL
- EV - ELECTRIC VAULT
- FD - FLOWLINE
- FS - FINISH SURFACE
- GR - GRASS
- GR - HANDICAP
- HCR - HANDICAP RAMP
- HW - INVERT ELEVATION
- IP - IRON PIPE
- LAD - LOS ANGELES COUNTY
- LS - LAND SURVEY
- L&T - LEAD & TACK
- PL - PROPERTY LINE
- PLN - PLANTER
- PWMT - PAVEMENT
- PWF - PUBLIC WORKS FIELD BOOK
- R/W - RIGHT OF WAY
- SAW - SPIKE & WASHER
- TC - TOP OF CURB ELEVATION
- TP - TOP OF GRADE ELEVATION
- TG - TOP OF PAD
- TV - TELEPHONE VAULT
- TYP - TYPICAL
- WF - WROUGHT IRON FENCE
- WB - BACK OF WALK
- EG - EDGE OF GUTTER
- EP - EDGE OF PAVEMENT
- FG - FINISH GRADE
- FL - FLOWLINE
- FS - FINISH SURFACE
- INV - INVERT
- JTC - TOP OF CURB
- JTP - TOP OF PAD
- JTM - TOP OF MANHOLE

SYMBOLS:

- SP - SIGN POST
 - P - POST
 - PH - FIRE HYDRANT
 - WM - WATER METER
 - SCD - SEWER CLEANOUT
 - RD - ROOF DRAIN
 - WV - WATER VALVE
 - CB - CATCH BASIN
 - TEP - TELEPHONE PULL BOX
 - SM - SEWER MANHOLE
 - T - TREE
 - CS - HANDICAPPED SPACE
- EXISTING R/W
 --- CENTERLINE
 --- BUILDING LINE
 --- PROPERTY LINE
 --- CHAIN LINK FENCE
 --- WROUGHT IRON FENCE

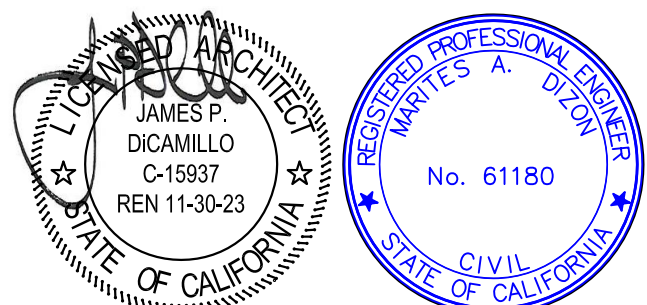
SURVEYOR'S NOTES:

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- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.



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HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
ROWLAND UNIFIED SCHOOL DISTRICT
3003 E. HOLLINGWORTH ST., WEST COVINA, CA



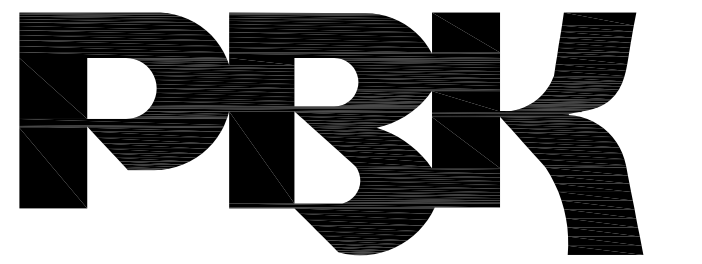
CONSULTANT
SEABOARD ENGINEERING CO.
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: SA CHECKED: JPD
 DATE: 04/21/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

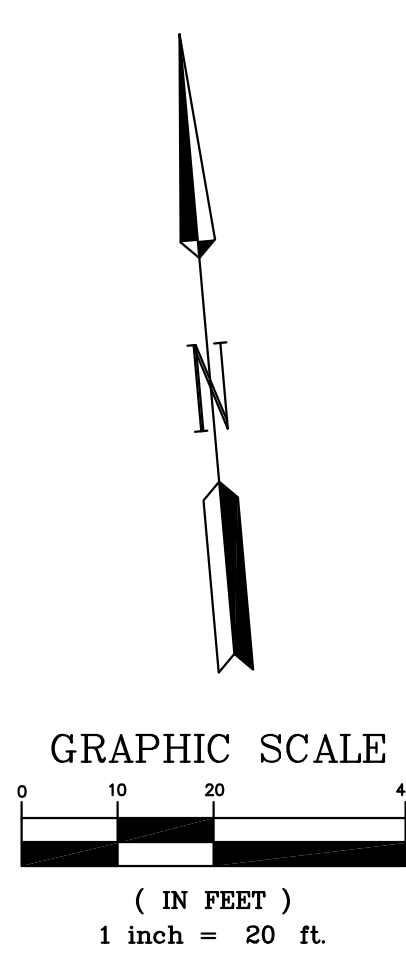
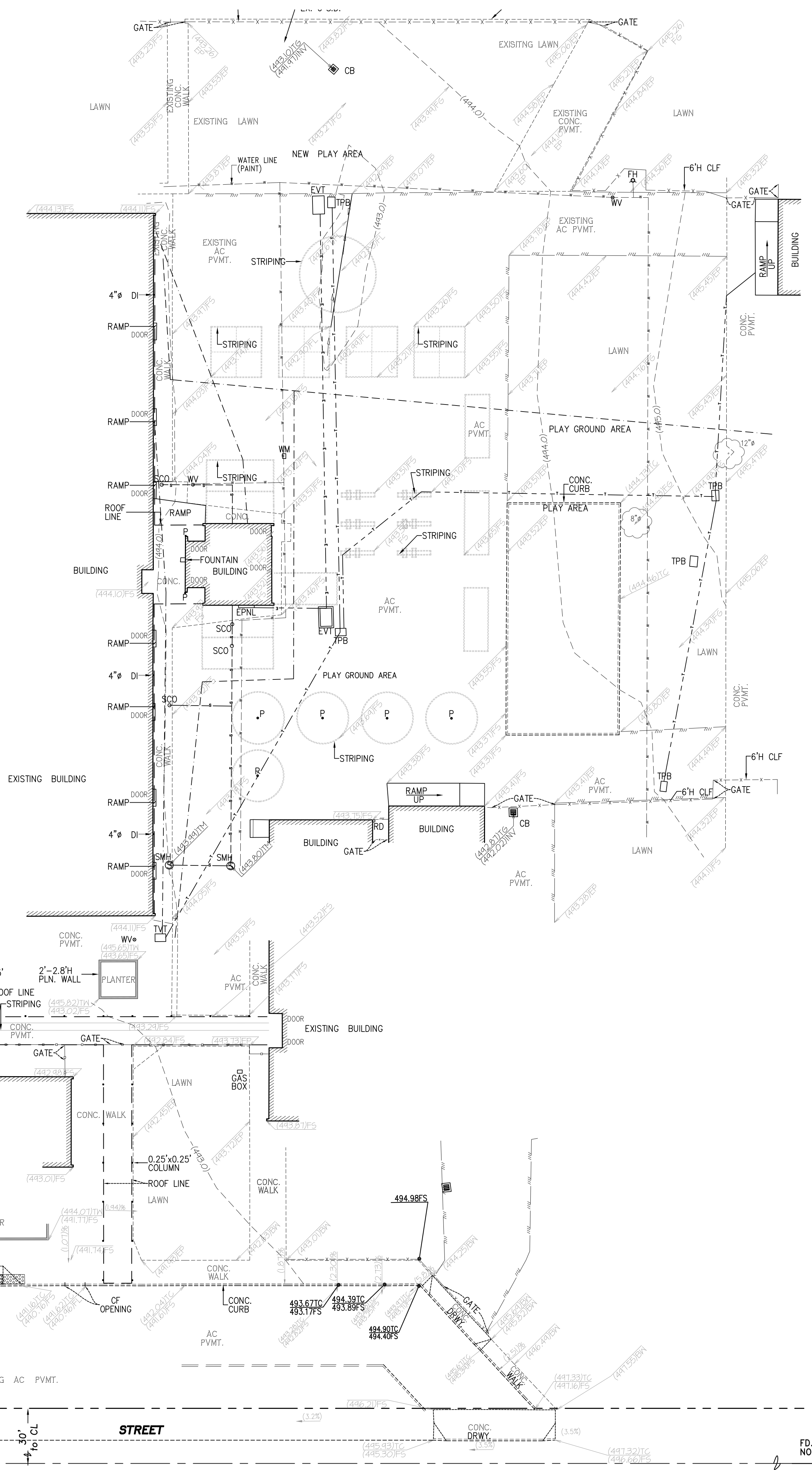
TITLE PAGE

DRAWING NUMBER: **C-1**



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HOLLINGWORTH ELEMENTARY SCHOOL
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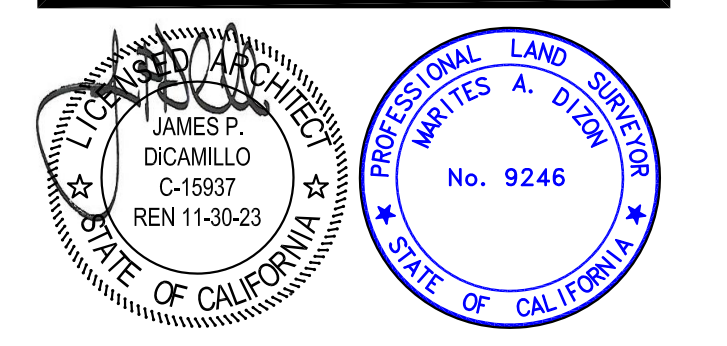
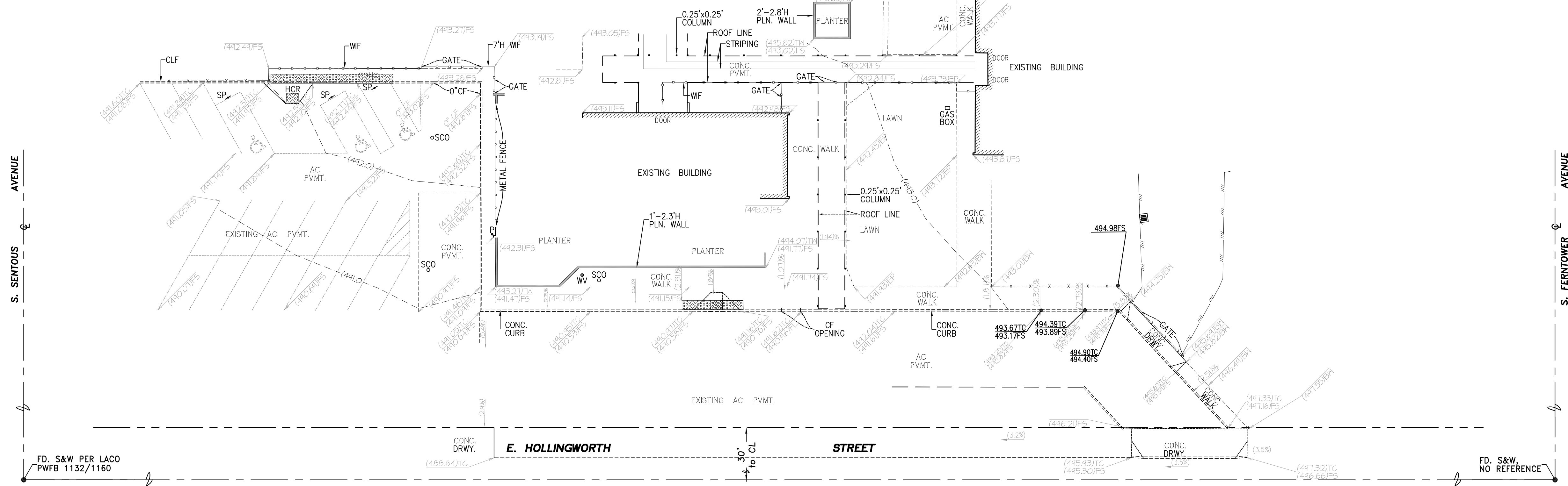
BASIS OF BEARING:
 THE BEARING NORTH 84°56'30" WEST OF THE CENTERLINE OF HOLLINGWORTH STREET AS SHOWN ON TRACT NO. 27866, AS PER MAP FILED IN BOOK 703, PAGES 64 THROUGH 70 INCLUSIVE OF MAPS, RECORDS OF LOS ANGELES COUNTY, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

BENCHMARK:
 REFERENCE: LOS ANGELES COUNTY PUBLIC WORKS SURVEY SECTION
 BM NUMBER: 465641
 QUAD/YEAR: COVINA/2013
 ELEVATION: 474.386
 DESCRIPTION: L&RCE TAG #5828 IN E. CURB, 1FT N/O ECR @ NE COR C/L INT VALLEY BLVD & SENTIOUS ST

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 - JTP - TOP OF PAD
 - JTM - TOP OF MANHOLE
- SYMBOLS:**
- EXISTING R/W
 - - - CENTERLINE
 - ==== BUILDING LINE
 - ===== WALL
 - CHAIN LINK FENCE
 - WROUGHT IRON FENCE



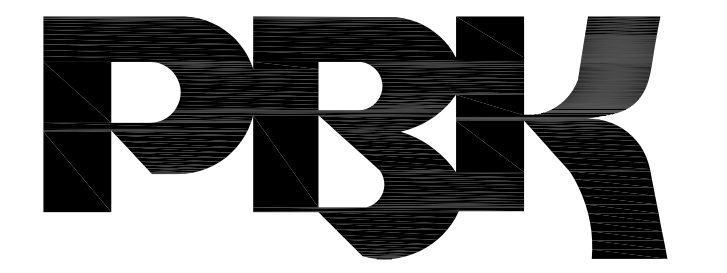
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: SA CHECKED: JPD
 DATE: 04/21/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

PARTIAL SITE & TOPOGRAPHIC SURVEY

DRAWING NUMBER: **C-2**



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HOLLINGWORTH ELEMENTARY SCHOOL
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3003 E. HOLLINGWORTH ST., WEST COVINA, CA

BASIS OF BEARING:

THE BEARING NORTH 84°56'30" WEST OF THE CENTERLINE OF HOLLINGWORTH STREET AS SHOWN ON TRACT NO. 27666, AS PER MAP FILED IN BOOK 703, PAGES 64 THROUGH 70 INCLUSIVE OF MAPS, RECORDS OF LOS ANGELES COUNTY, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

BENCHMARK:

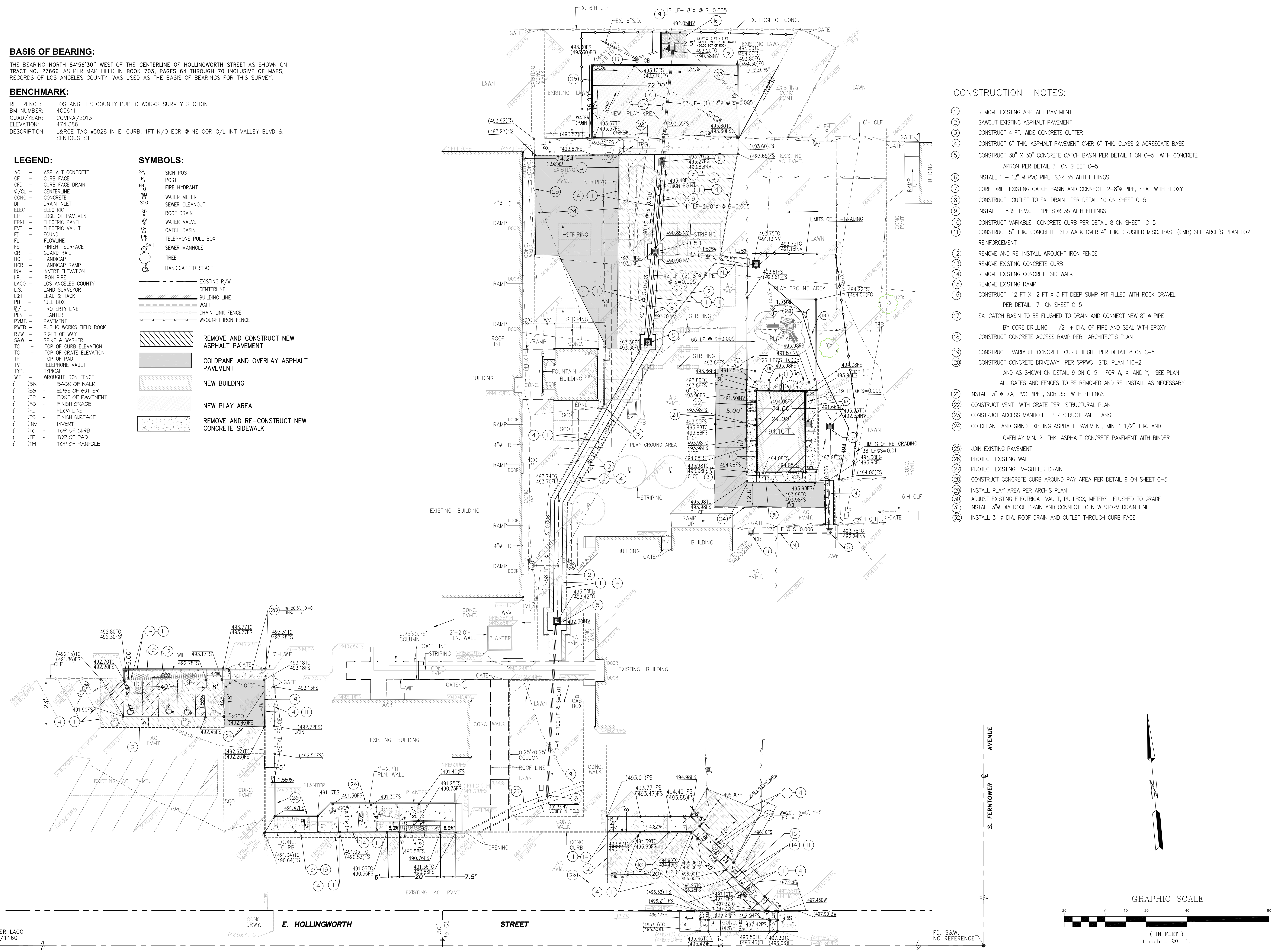
REFERENCE: LOS ANGELES COUNTY PUBLIC WORKS SURVEY SECTION
 BM NUMBER: 465641
 QUAD/YEAR: COVINA/2013
 ELEVATION: 474.386
 DESCRIPTION: LARGE TAG #5828 IN E. CURB, 1FT N/O EDR @ NE COR C/L INT VALLEY BLVD & SENTOUS ST

LEGEND:

- AC - ASPHALT CONCRETE
- CF - CURB FACE
- CFD - CURB FACE DRAIN
- CL - CENTERLINE
- CONC - CONCRETE
- DI - DRAIN INLET
- ELEC - ELECTRIC
- EP - EDGE OF PAVEMENT
- EPNL - ELECTRIC PANEL
- EVT - ELECTRIC VAULT
- FD - FOUND
- FL - FLOWLINE
- FS - FINISH SURFACE
- GR - GUARD RAIL
- HC - HANDICAP
- HCR - HANDICAP RAMP
- INV - INVERT ELEVATION
- IP - IRON PIPE
- LACO - LOS ANGELES COUNTY
- L.S. - LAND SURVEYOR
- L&T - LEAD & TACK
- PB - PULL BOX
- R/PL - PROPERTY LINE
- FLN - FLOWLINE
- PVMT - PAVEMENT
- PWFB - PUBLIC WORKS FIELD BOOK
- R/W - RIGHT OF WAY
- S&W - SPIKE & WASHER
- TC - TOP OF CURB ELEVATION
- TP - TOP OF PAD
- T/V - TELEPHONE VAULT
- TY - TYPICAL
- WF - WROUGHT IRON FENCE
- (JWH - BACK OF WALK
- (JEG - EDGE OF GUTTER
- (JEP - EDGE OF PAVEMENT
- (JFL - FINISH GRADE
- (JFL - FLOWLINE
- (JFS - FINISH SURFACE
- (JINV - INVERT
- (JTC - TOP OF CURB
- (JTP - TOP OF PAD
- (JTM - TOP OF MANHOLE

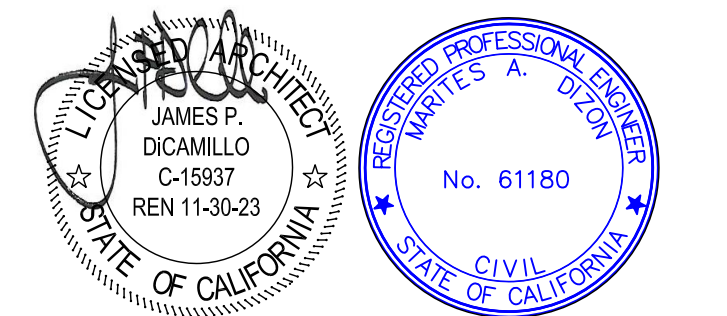
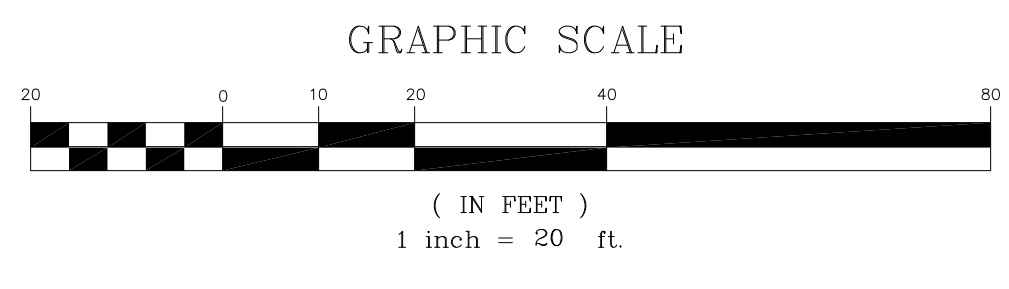
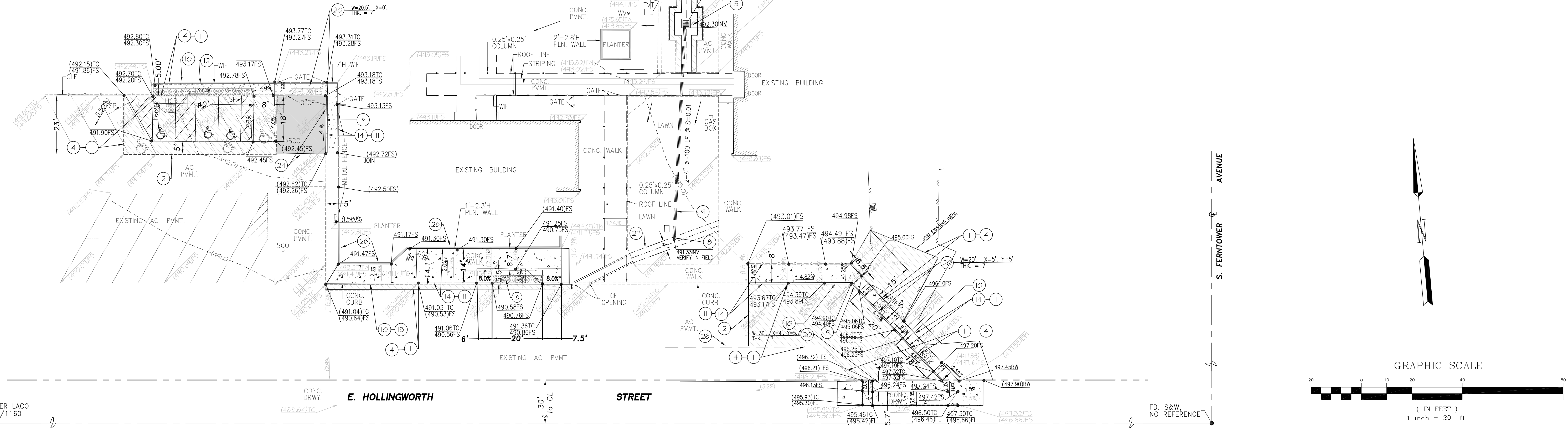
SYMBOLS:

- SP - SIGN POST
- PH - FIRE HYDRANT
- WM - WATER METER
- SCD - SEWER CLEANOUT
- RD - ROOF DRAIN
- WV - WATER VALVE
- CB - CATCH BASIN
- TFB - TELEPHONE PULL BOX
- SMH - SEWER MANHOLE
- HS - HANDICAPPED SPACE
- EXISTING R/W
- CENTERLINE
- BUILDING LINE
- WALL
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- REMOVE AND CONSTRUCT NEW ASPHALT PAVEMENT
- COLDPAVE AND OVERLAY ASPHALT PAVEMENT
- NEW BUILDING
- NEW PLAY AREA
- REMOVE AND RE-CONSTRUCT NEW CONCRETE SIDEWALK



CONSTRUCTION NOTES:

- 1 REMOVE EXISTING ASPHALT PAVEMENT
- 2 SAWCUT EXISTING ASPHALT PAVEMENT
- 3 CONSTRUCT 4 FT. WIDE CONCRETE GUTTER
- 4 CONSTRUCT 6" THK. ASPHALT PAVEMENT OVER 6" THK. CLASS 2 AGGREGATE BASE
- 5 CONSTRUCT 30" X 30" CONCRETE CATCH BASIN PER DETAIL 1 ON C-5 WITH CONCRETE APRON PER DETAIL 3 ON SHEET C-5
- 6 INSTALL 1" - 12" P.V.C. PIPE, SDR 35 WITH FITTINGS
- 7 CORE DRILL EXISTING CATCH BASIN AND CONNECT 2-8" PIPE, SEAL WITH EPOXY
- 8 CONSTRUCT OUTLET TO EX. DRAIN PER DETAIL 10 ON SHEET C-5
- 9 INSTALL 8" P.V.C. PIPE SDR 35 WITH FITTINGS
- 10 CONSTRUCT VARIABLE CONCRETE CURB PER DETAIL 8 ON SHEET C-5
- 11 CONSTRUCT 5" THK. CONCRETE SIDEWALK OVER 4" THK. CRUSHED MISC. BASE (OMB) SEE ARCH'S PLAN FOR REINFORCEMENT
- 12 REMOVE AND RE-INSTALL WROUGHT IRON FENCE
- 13 REMOVE EXISTING CONCRETE CURB
- 14 REMOVE EXISTING CONCRETE SIDEWALK
- 15 REMOVE EXISTING RAMP
- 16 CONSTRUCT 12 FT X 12 FT X 3 FT DEEP SUMP PIT FILLED WITH ROCK GRAVEL PER DETAIL 7 ON SHEET C-5
- 17 EX. CATCH BASIN TO BE FLUSHED TO DRAIN AND CONNECT NEW 8" PIPE BY CORE DRILLING 1/2" + DIA. OF PIPE AND SEAL WITH EPOXY
- 18 CONSTRUCT CONCRETE ACCESS RAMP PER ARCHITECT'S PLAN
- 19 CONSTRUCT VARIABLE CONCRETE CURB HEIGHT PER DETAIL 8 ON C-5
- 20 CONSTRUCT CONCRETE DRIVEWAY PER SPWVC STD. PLAN 110-2 AND AS SHOWN ON DETAIL 9 ON C-5 FOR W, X, AND Y. SEE PLAN ALL GATES AND FENCES TO BE REMOVED AND RE-INSTALL AS NECESSARY
- 21 INSTALL 3" DIA. PVC PIPE, SDR 35 WITH FITTINGS
- 22 CONSTRUCT VENT WITH GRATE PER STRUCTURAL PLAN
- 23 CONSTRUCT ACCESS MANHOLE PER STRUCTURAL PLANS
- 24 COLDPAVE AND GRIND EXISTING ASPHALT PAVEMENT, MIN. 1 1/2" THK. AND OVERLAY MIN. 2" THK. ASPHALT CONCRETE PAVEMENT WITH BINDER
- 25 JOIN EXISTING PAVEMENT
- 26 PROTECT EXISTING WALL
- 27 PROTECT EXISTING V-GUTTER DRAIN
- 28 CONSTRUCT CONCRETE CURB AND PAVEMENT PER DETAIL 9 ON SHEET C-5
- 29 INSTALL PLAY AREA PER ARCH'S PLAN
- 30 ADJUST EXISTING ELECTRICAL VAULT, PULLBOX, METERS FLUSHED TO GRADE
- 31 INSTALL 3" DIA. ROOF DRAIN AND CONNECT TO NEW STORM DRAIN LINE
- 32 INSTALL 3" DIA. ROOF DRAIN AND OUTLET THROUGH CURB FACE



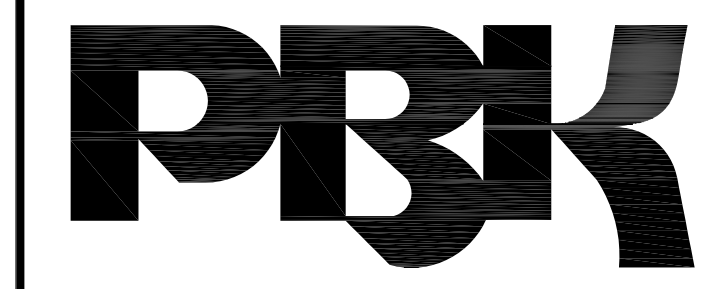
CONSULTANT
SEABOARD ENGINEERING CO.
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 GLENDALE, CALIFORNIA 91205
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 SEABOARD@SEABOARDENGINEERING.COM
James P. D'Amillo
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: SA CHECKED: JPD
 DATE: 04/21/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

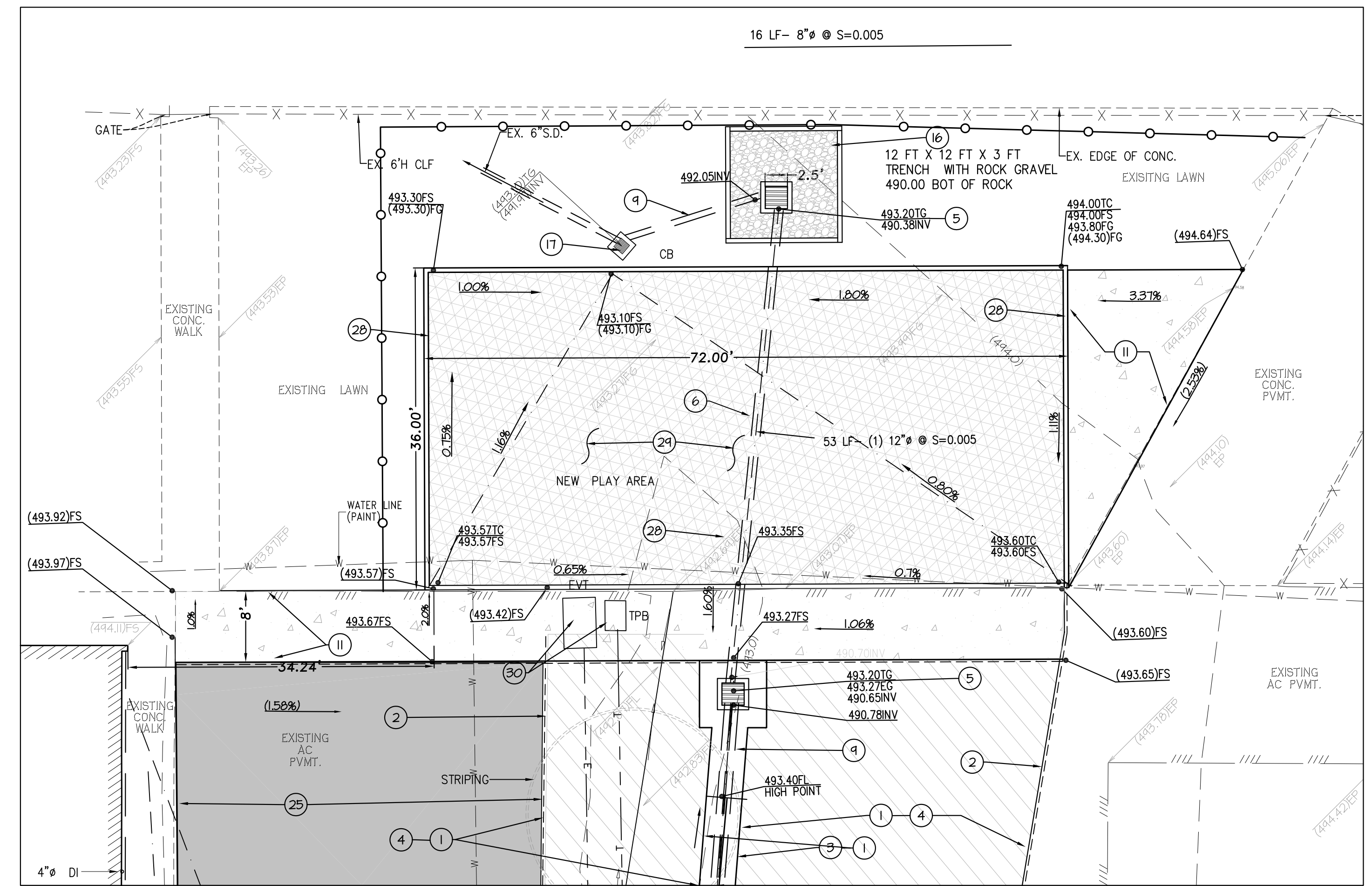
SITE PAVING AND DRAINAGE PLAN

DRAWING NUMBER: **C-3**

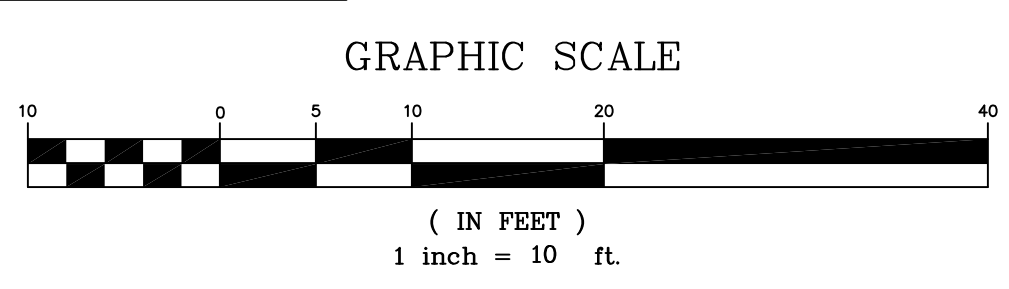


RANCHO CUCAMONGA
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 909-987-0909 P

HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
 ROWLAND UNIFIED SCHOOL DISTRICT
 3003 E. HOLLINGWORTH ST, WEST COVINA, CA



PLAYGROUND AREA
 SCALE: 1" = 10' - 0"

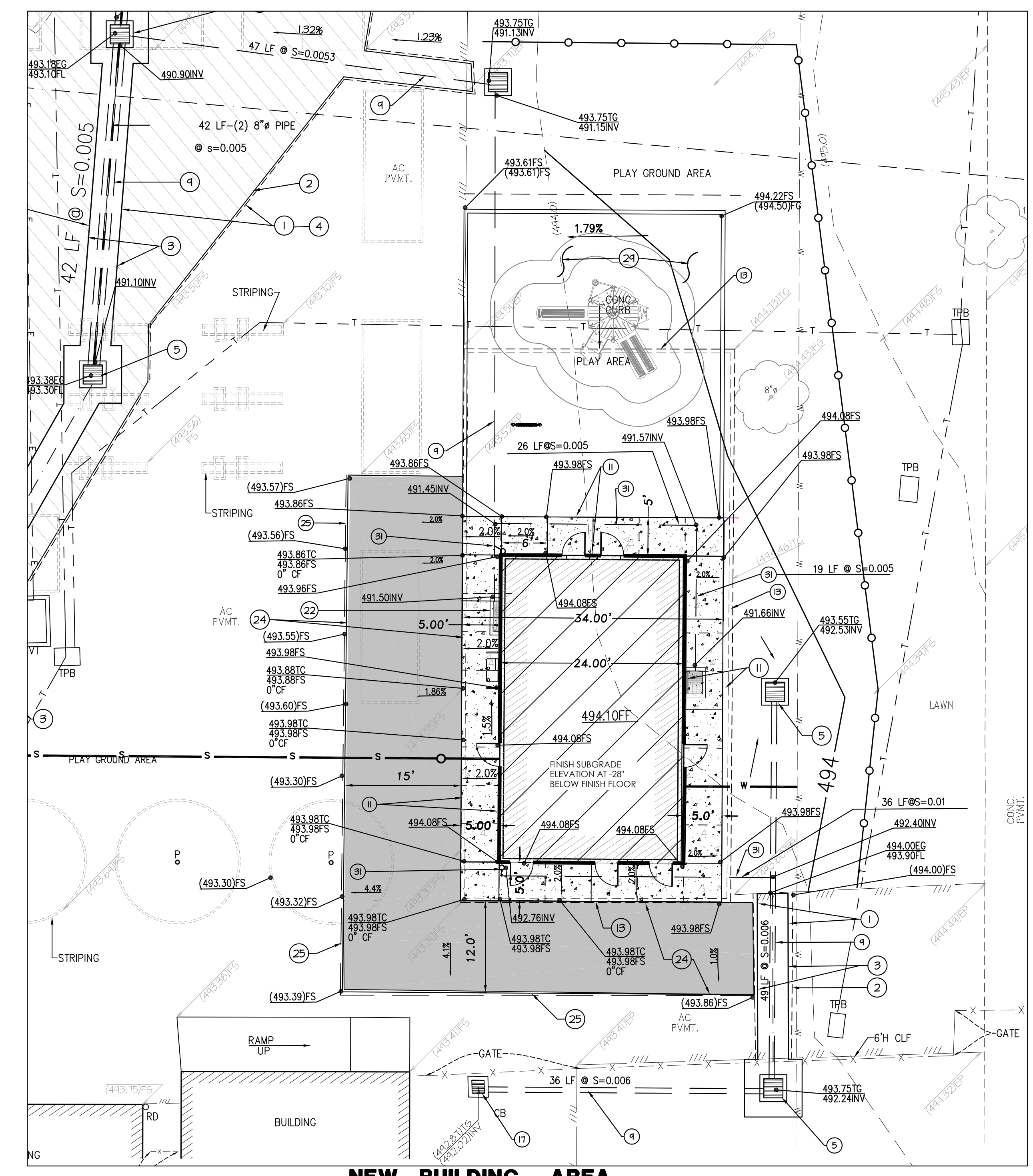


LEGEND:

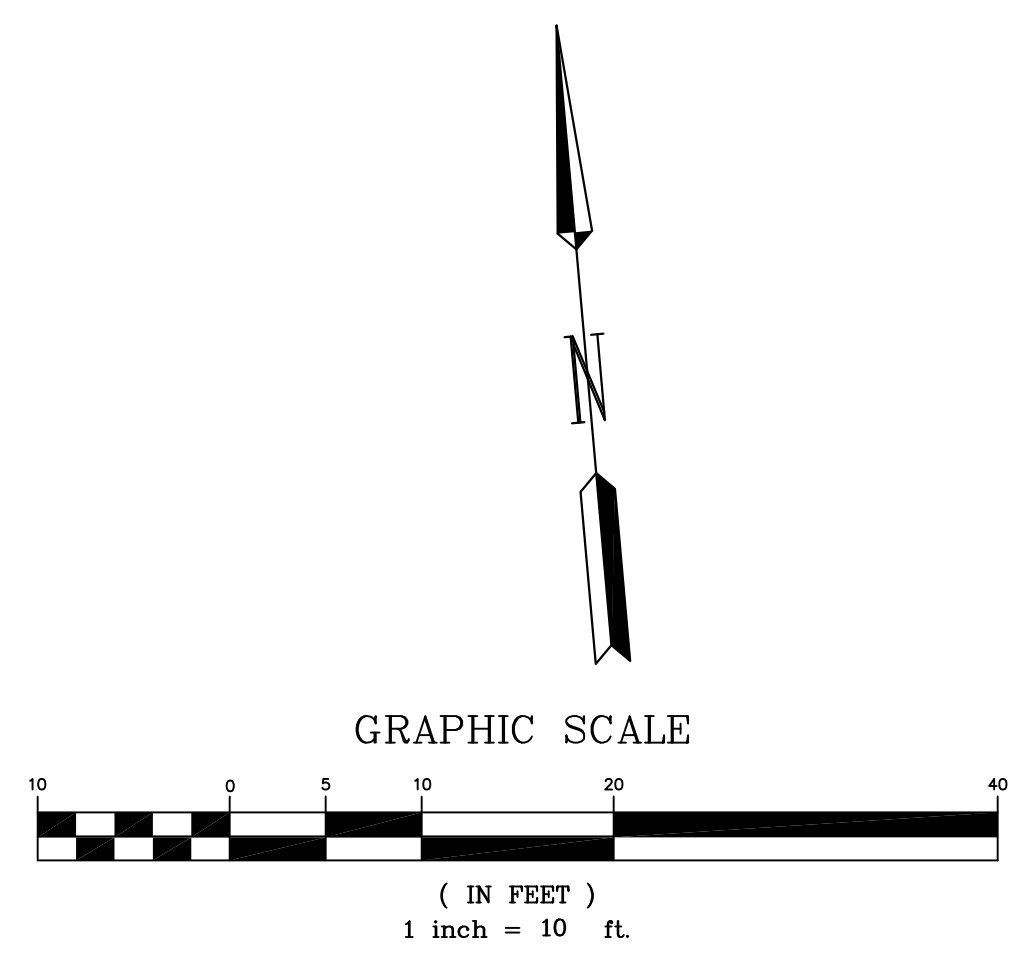
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- WBH - BACK OF WALK
- WES - EDGE OF GUTTER
- WEP - EDGE OF PAVEMENT
- WFG - FINISH GRADE
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- CB - CATCH BASIN
- TPB - TELEPHONE PULL BOX
- SMH - SEWER MANHOLE
- T - TREE
- HS - HANDICAPPED SPACE
- EXISTING R/W
- CENTERLINE
- BUILDING LINE
- WALL
- CHAIN LINK FENCE
- WROUGHT IRON FENCE

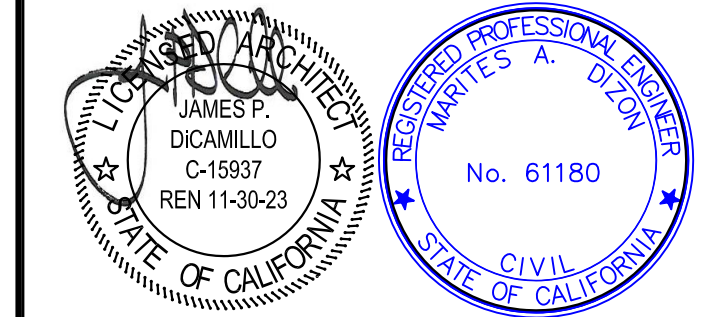


NEW BUILDING AREA
 SCALE: 1" = 10' - 0"



CONSTRUCTION NOTES:

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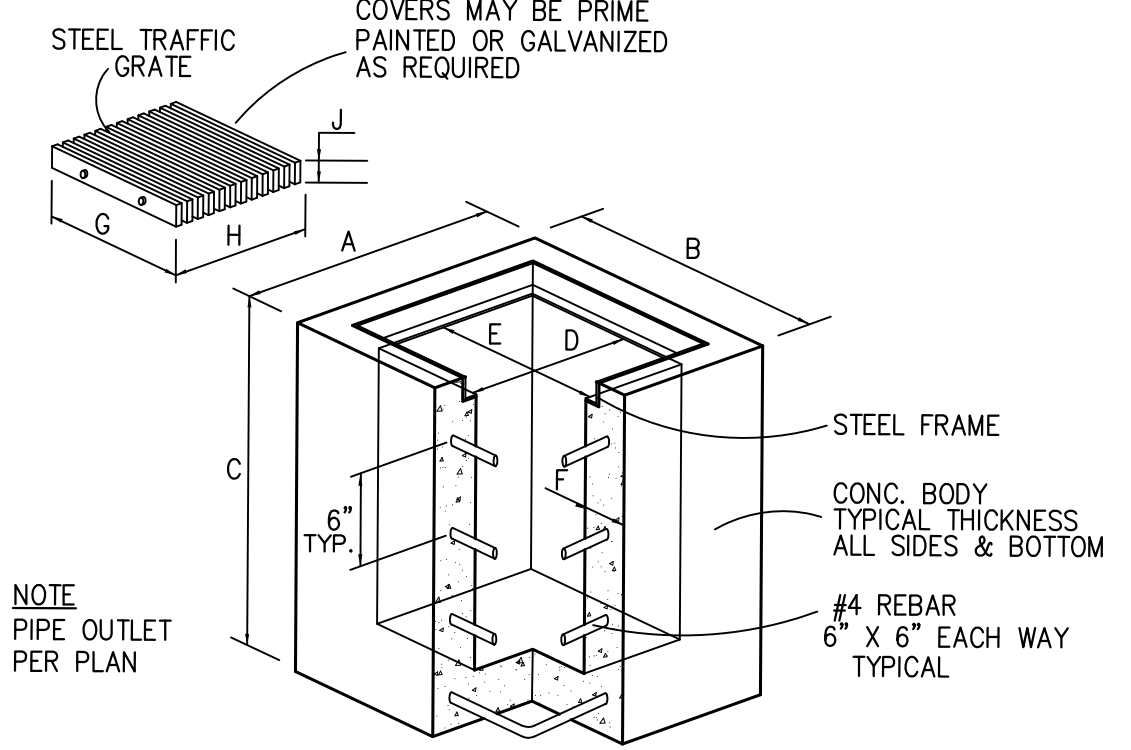
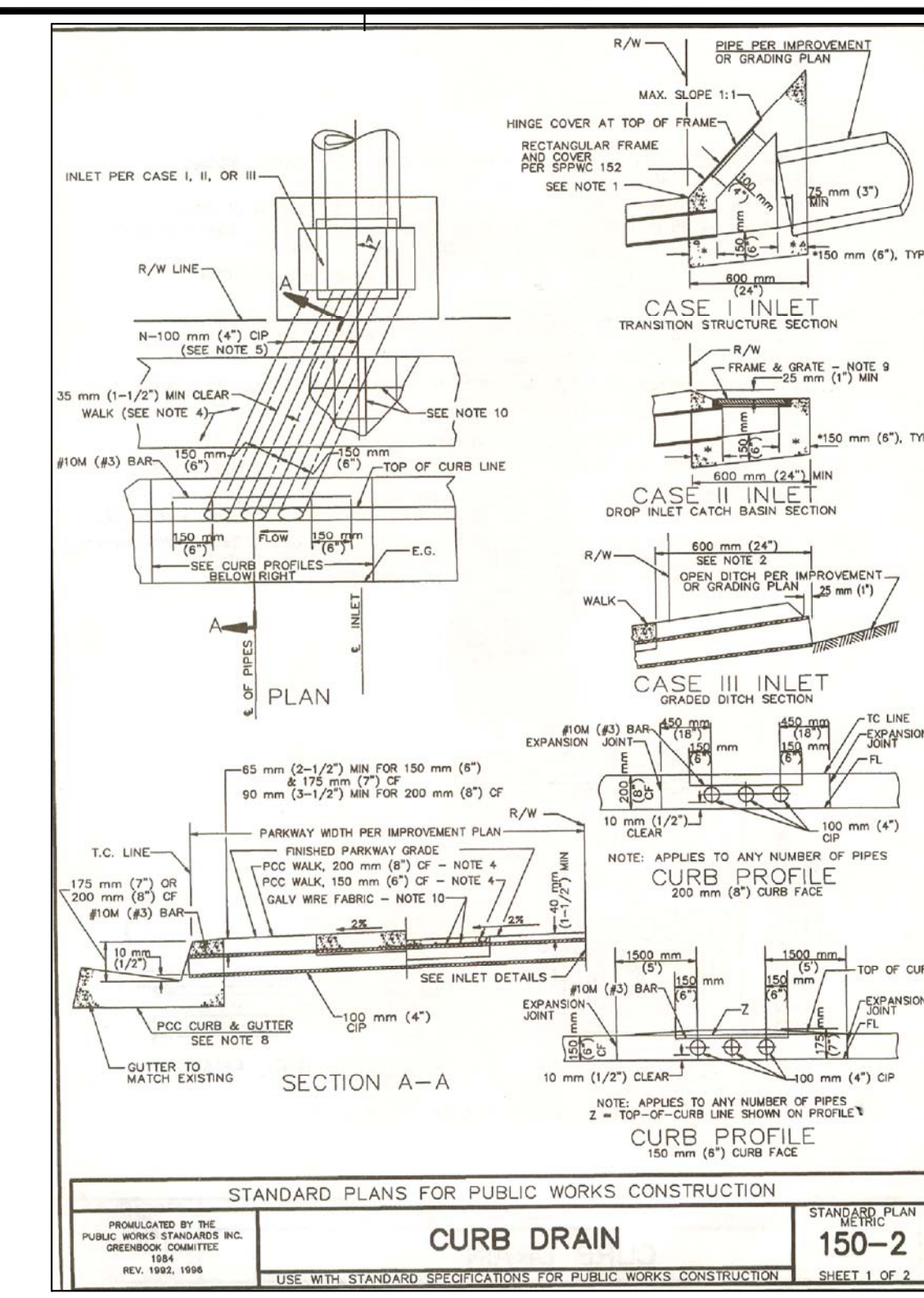
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Martine R. Digo
 MARTINE R. DIGO, PE/PLS

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SITE PAVING AND DRAINAGE PLAN

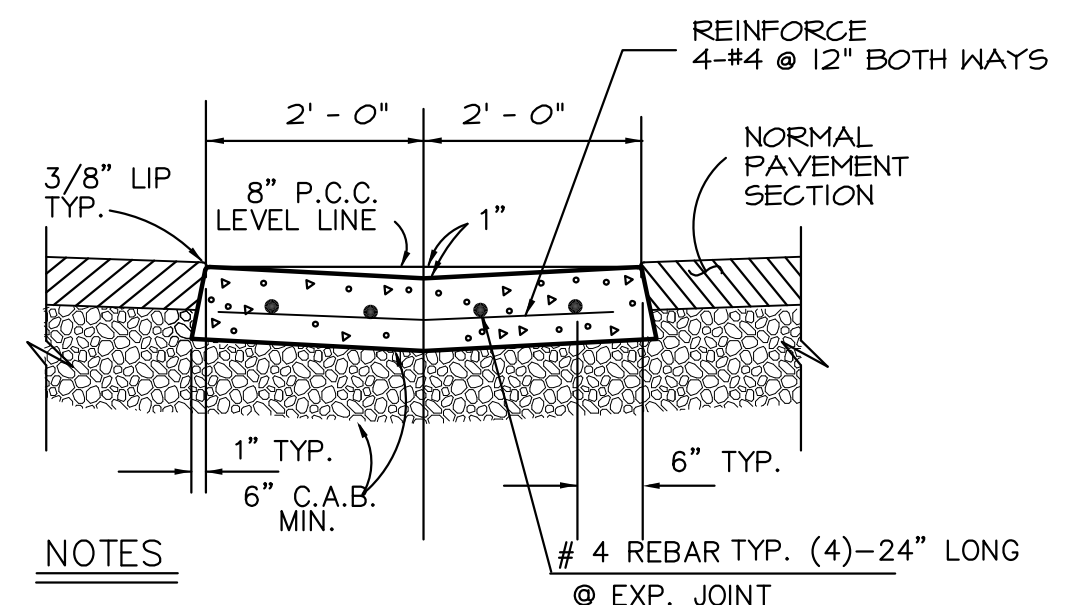
DRAWING NUMBER: **C-4**



C.B. DIMENSION TABULATION		(ALL UNITS IN INCHES)									
TYPE OF C.B. AND GRATE	A	B	C	D	E	F	G	H	J		
24" X 24" C.B. WITH TRAFFIC GRATE	36	36	VAR.	22	22	6	24	24	2 1/2		
30" X 30" C.B. WITH TRAFFIC GRATE	42	42	VAR.	26	26	8	30	30	2 1/2		

CAST-IN-PLACE CATCH BASIN DETAIL

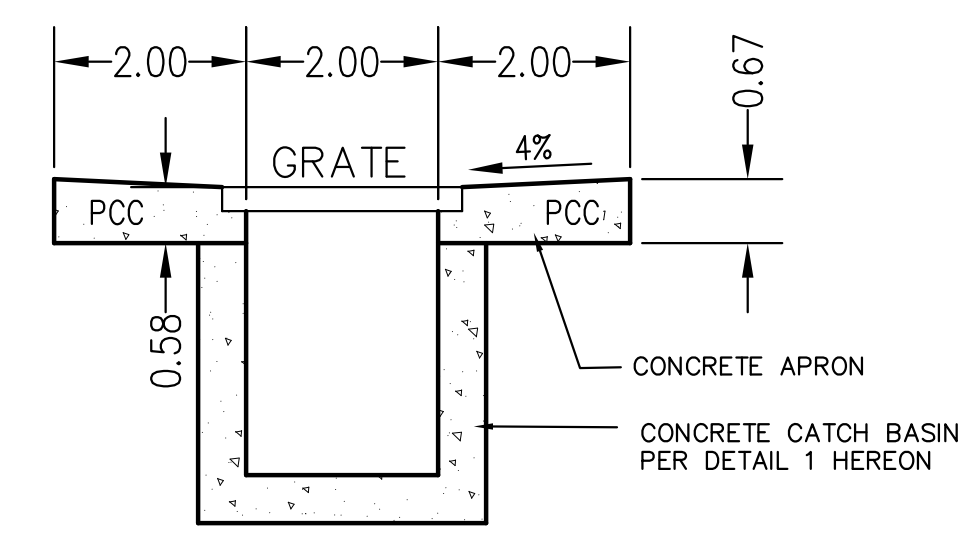
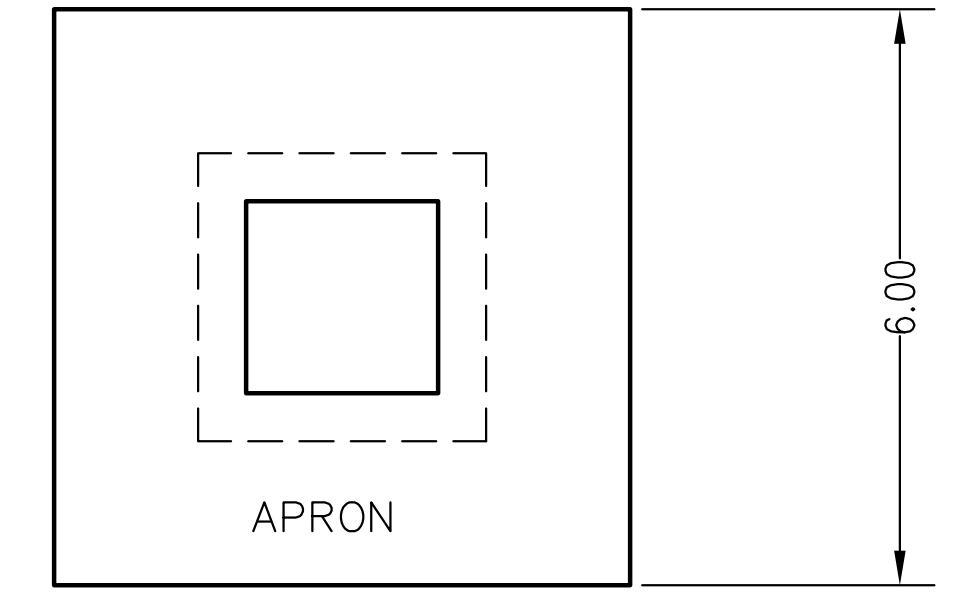
- NOTES:
 1. FLOOR OF BOX SHALL BE TROWELED SMOOTH.
 2. TOP OF GRATE SHALL BE FLUSH TO ADJACENT GRADE.
 3. CONCRETE SHALL BE CLASS 520-C-2500.
 4. GRATE SHALL BE STEEL AND GALVANIZED WITH TRAFFIC GRATING'S LOAD CAPACITY AND SPACING SAFE FOR HANDICAPPED AND PEDESTRIAN SAFETY.



NOTES

1. PILOT GUTTERS SHALL HAVE A 8" SMOOTH STEEL TROWEL FINISH.
 2. CLASS 2500 PSI CONCRETE WITH CONTRACTION JOINTS AT EQUAL SPACING (20" MAX.)

CONCRETE GUTTER
 DETAIL 2

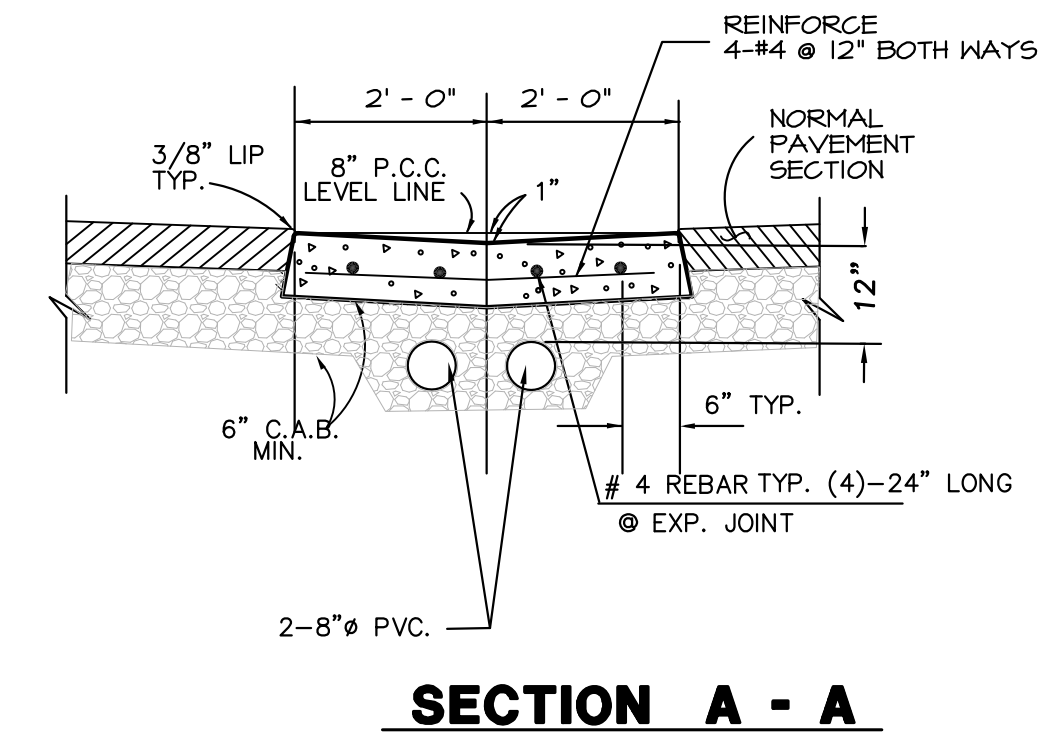


CONCRETE APRON 3

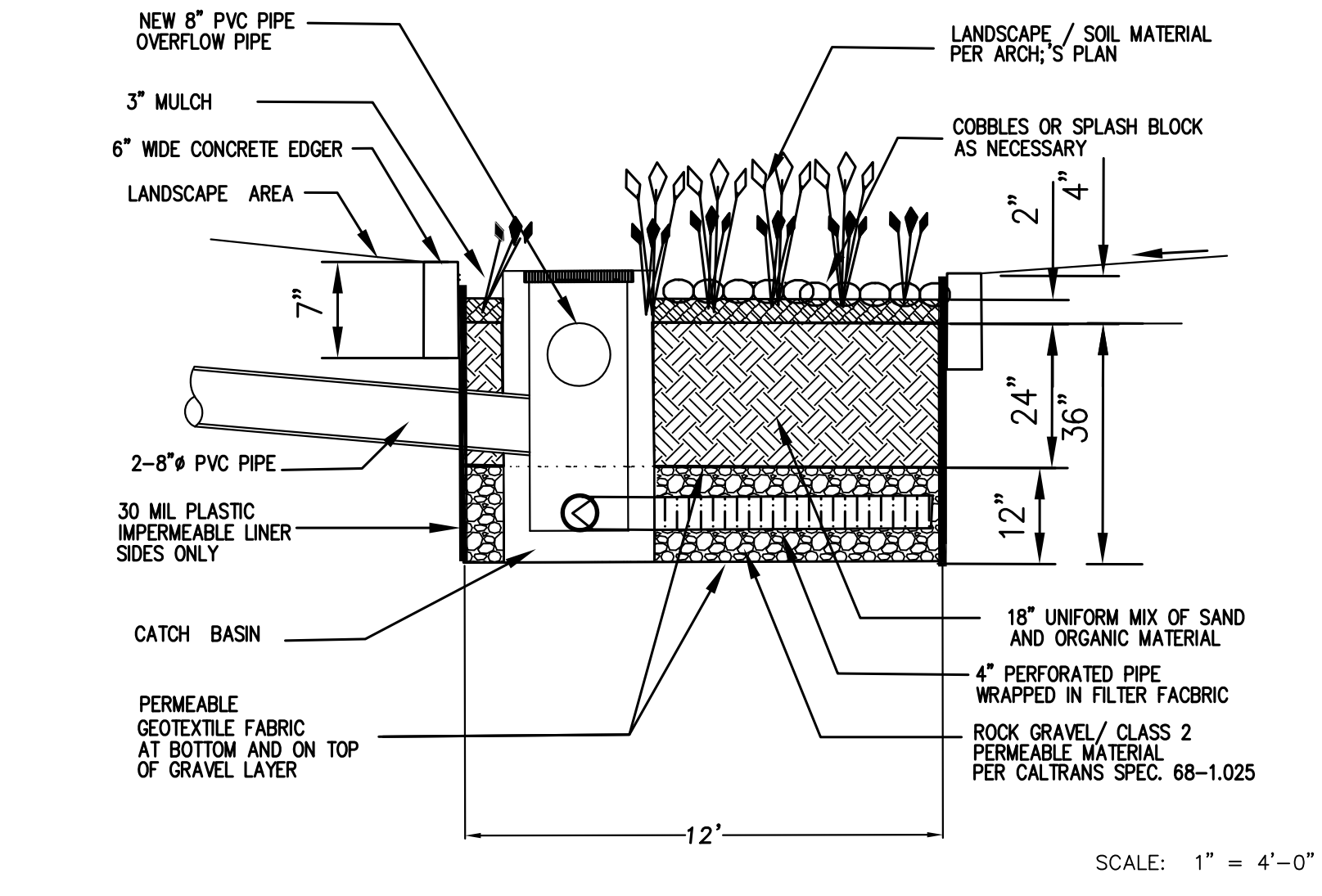
CONCRETE CATCH BASIN 1

CURB DRAIN DETAIL 4

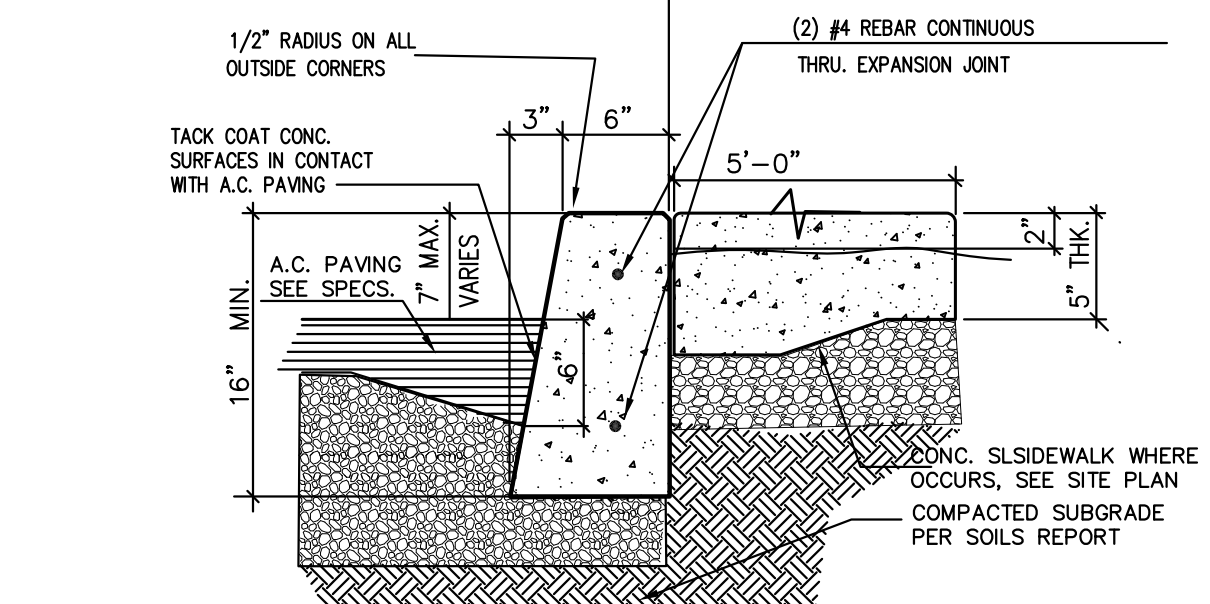
CONCRETE GUTTER 2



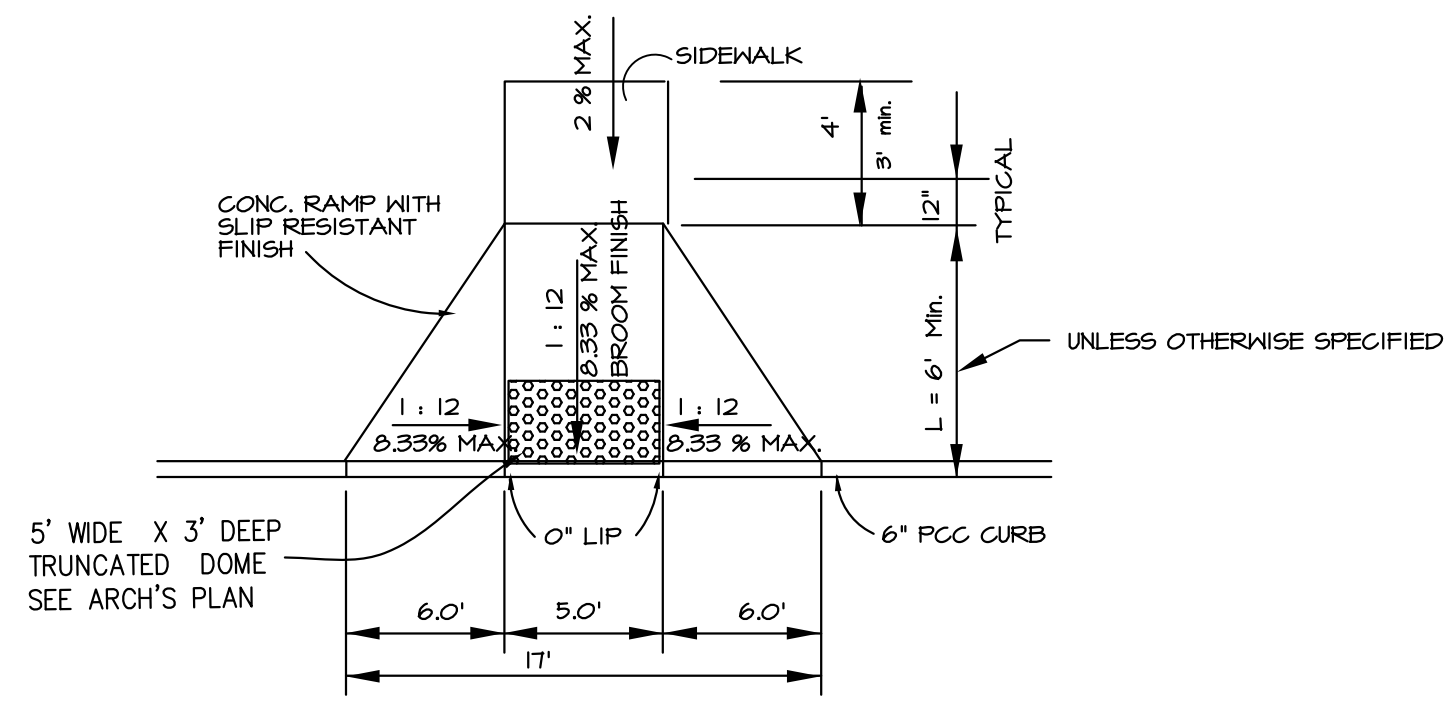
SECTION A - A 6



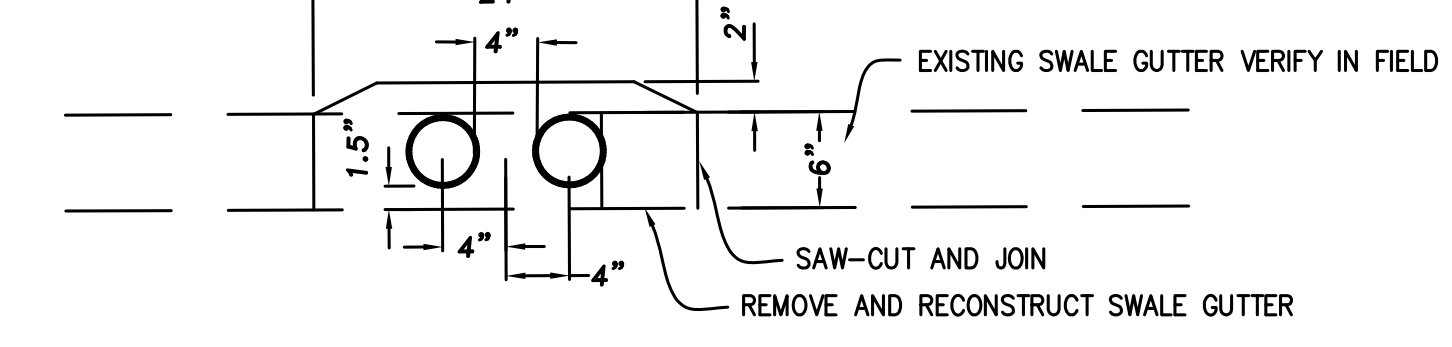
GRAVEL-SAND TRENCH PIT 7



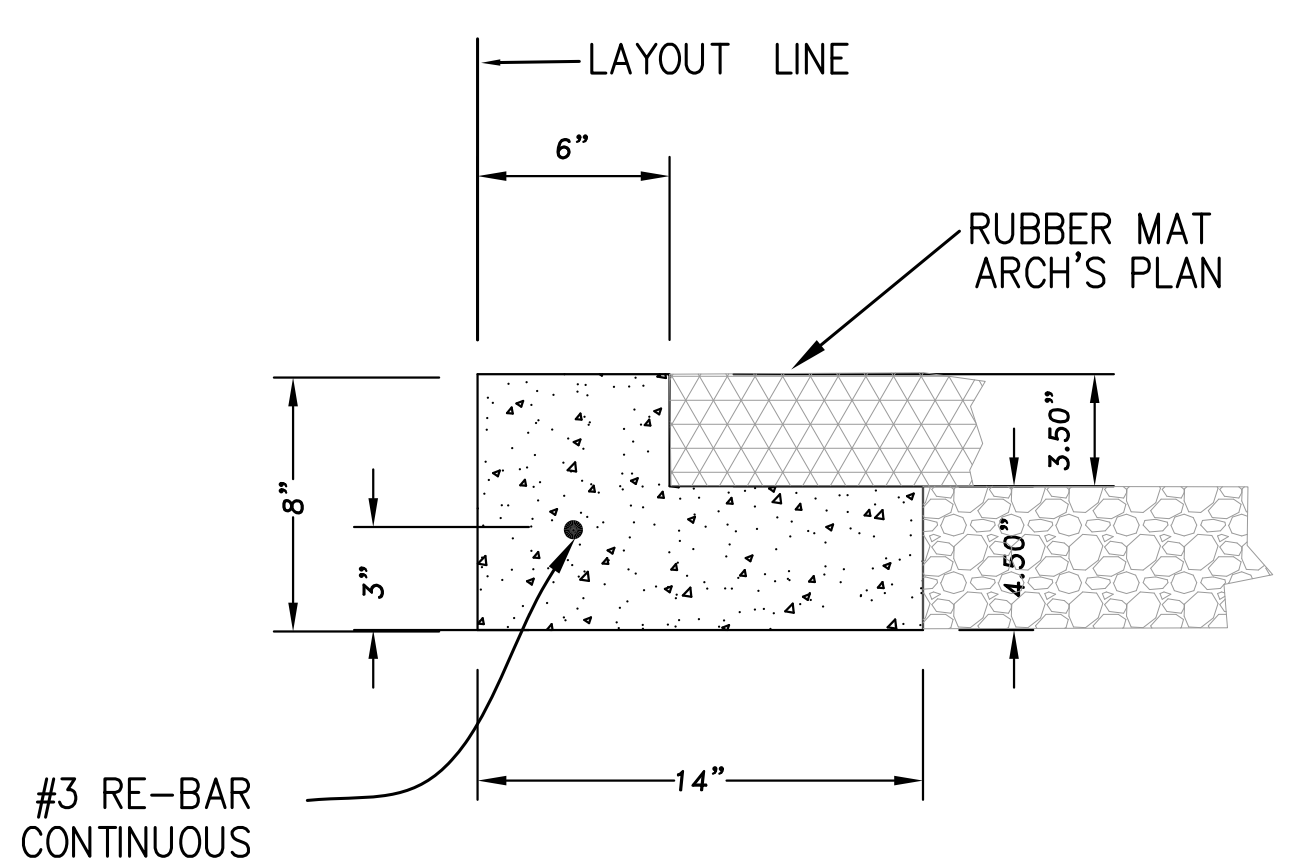
CONCRETE CURB 8



P.C.C. ACCESS RAMP 5

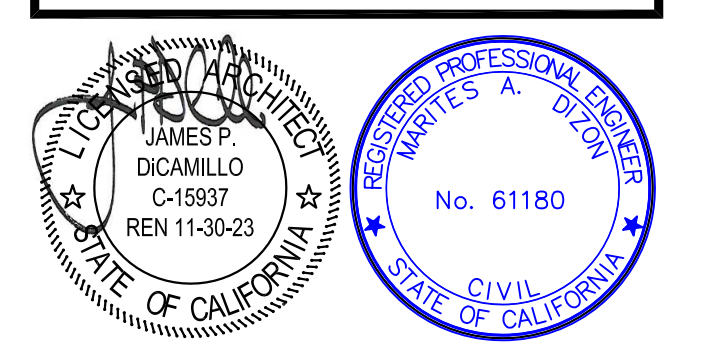


PIPE OUTLET THROUGH GUTTER 10



PLAY AREA CONCRETE CURB 9

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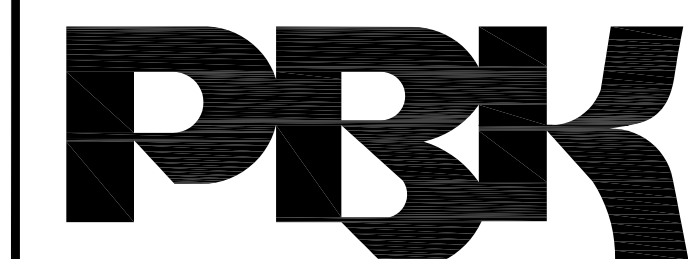
CONSULTANT
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Marites A. Dizon
 MARITES A. DIZON, PE / PLS

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: SA CHECKED: JPD
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PAVING DETAILS

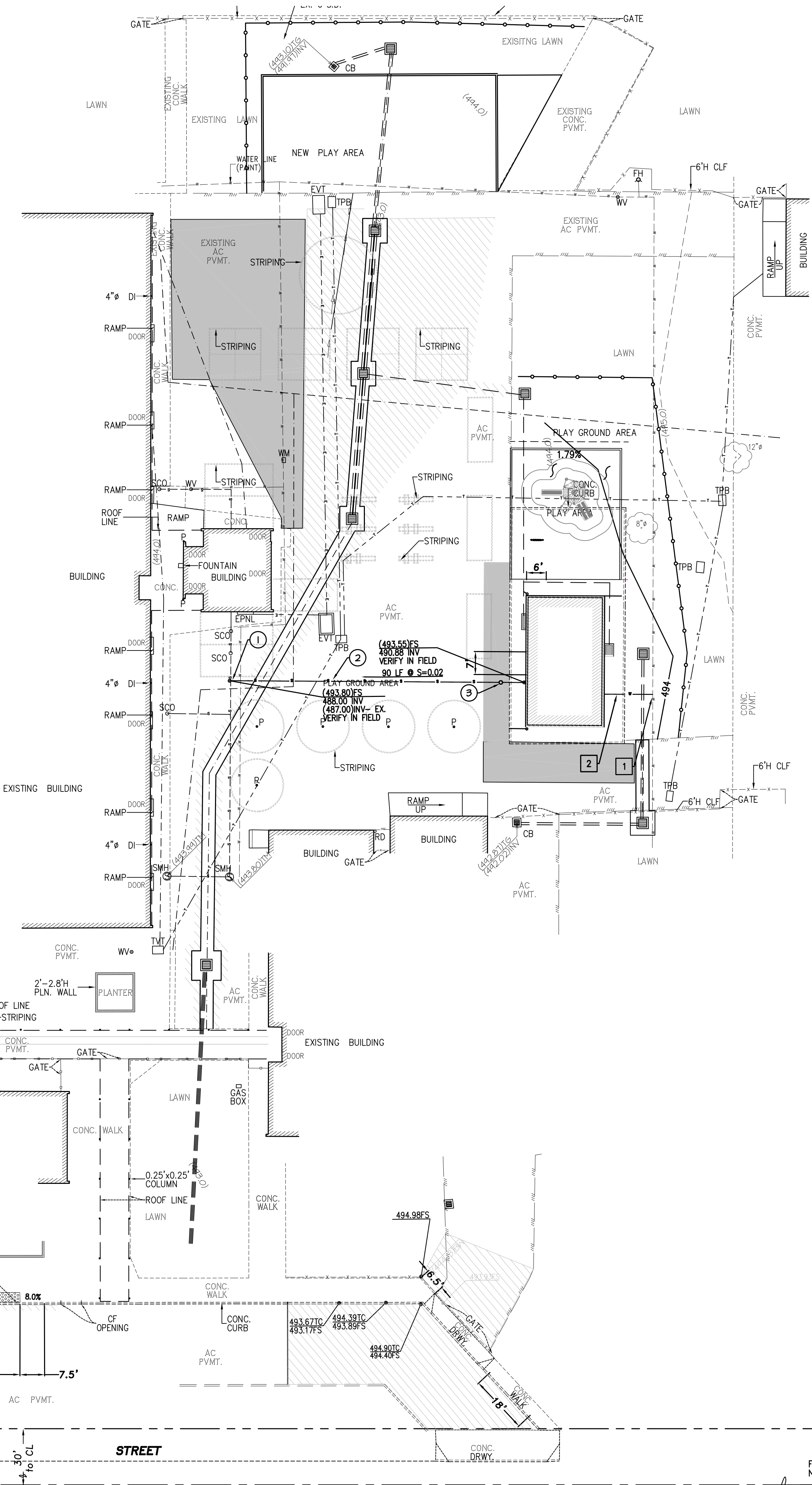
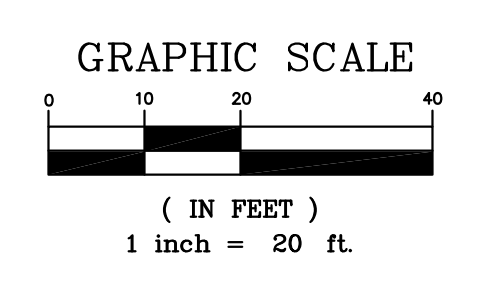
DRAWING NUMBER: **C-5**



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 RANCHO CUCAMONGA, CA 91730
 909-987-0909 P

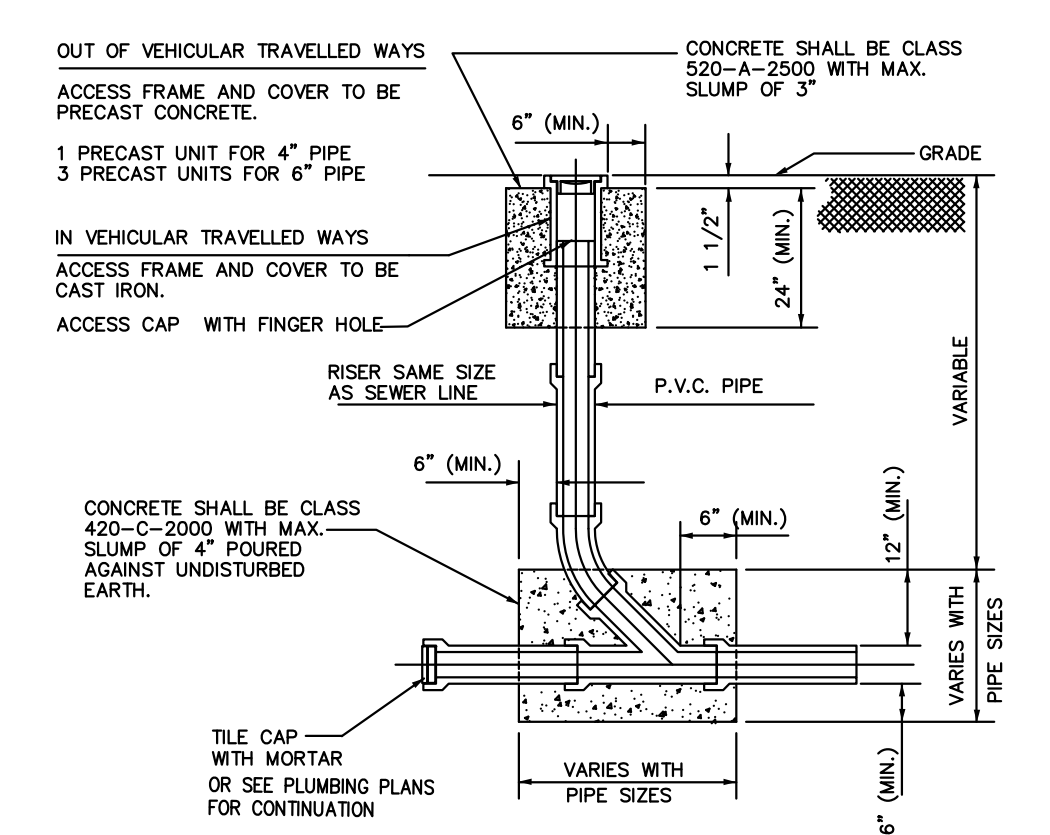
HOLLINGWORTH ELEMENTARY SCHOOL
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 - TO - TOP OF GRADE ELEVATION
 - TP - TOP OF PAD
 - TVT - TELEPHONE VAULT
 - TRIAL - TRIANGULAR
 - WF - WROUGHT IRON FENCE
 - ZBM - BACK OF HALK
 - ZEG - EDGE OF GUTTER
 - ZEP - EDGE OF PAVEMENT
 - ZFG - FINISH GRADE
 - ZFL - FLOK LINE
 - ZFS - FINISH SURFACE
 - ZINV - INVERT
 - ZJC - TOP OF CURB
 - ZJP - TOP OF PAD
 - ZJH - TOP OF MANHOLE
- SYMBOLS:**
- EXISTING R/W
 - CENTERLINE
 - BUILDING LINE
 - WALL
 - CHAIN LINK FENCE
 - WROUGHT IRON FENCE
 - EXISTING SEWER LINE
 - EXISTING WATER LINE
 - EXISTING ELECTRICAL LINE
 - EXISTING TELEPHONE LINE
 - EXISTING UNDERGROUND LINE (UNKNOWN TYPE)
 - PROPOSED SEWER LINE
 - PROPOSED WATER LINE
 - PROPOSED STORM DRAIN LINE
 - PROPOSED CATCH BASIN

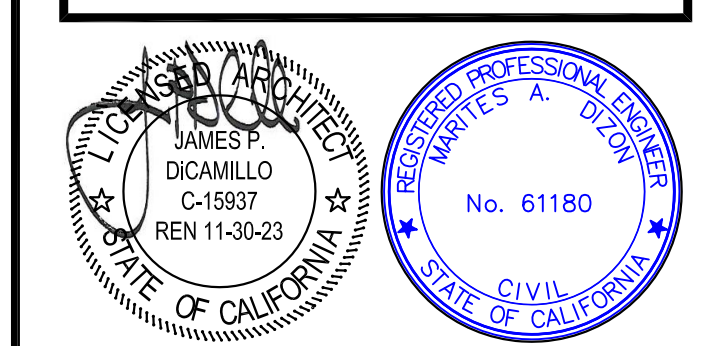
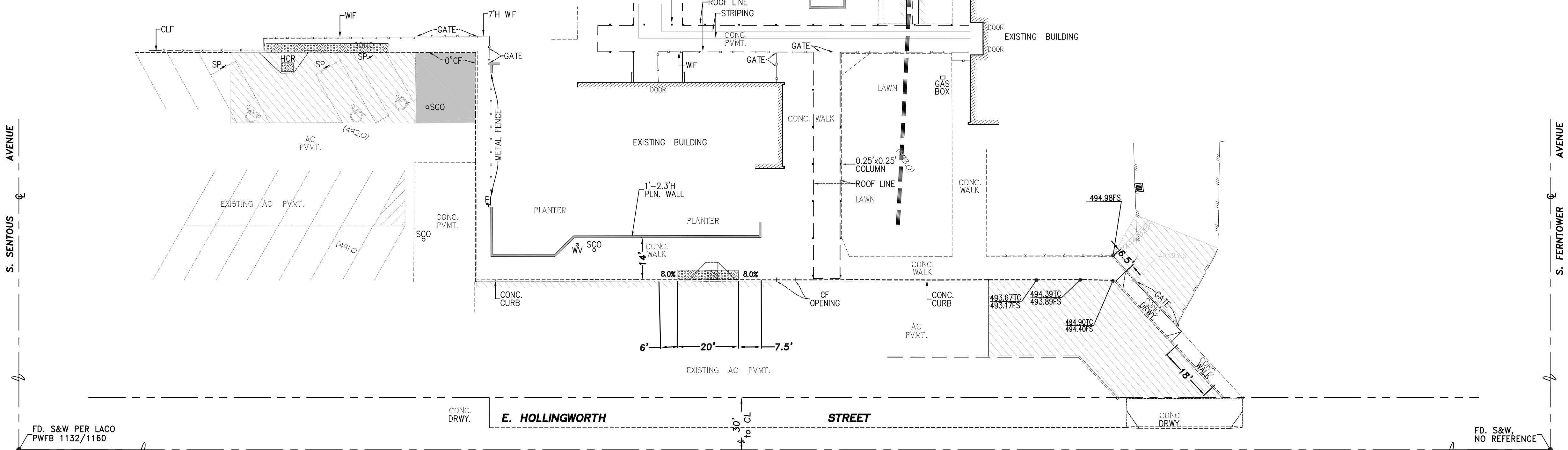


CONSTRUCTION NOTES:

- SEWER**
- 1 CONNECT 4" Ø PIPE WITH PIPE SADDLE PER SPPWC SD. PLAN 222-2
 - 2 CONSTRUCT 4" Ø PVC PIPE SDR 35 PER SPPWC STD. PLAN 222-2, PROFILE TYPE A
 - 3 CONSTRUCT SEWER CLEANOUT PER DETAIL HEREON
- WATER**
- 1 CONNECT 2" Ø PIPE PVC TO EXISTING WATER LINE
 - 2 CONSTRUCT 2" Ø PVC PIPE, PER ASTM D 2241 SDR 26 PVC. PRESSURE PIPING SHALL BE IN ACCORDANCE WITH ASTM D 1784 FOR PVC COMPOUNDS, ASTM S-3139 FOR PUSH ON JOINTS AND ASTM F-477 FOR RUBBER GASKETS.



SEWER CLEANOUT
TYPICAL DETAIL "B"
 NOT TO SCALE
 CLEANOUT PER SEC. 707 AND 719.0 OF PLUMBING CODE.
TYPICAL SEWER CLEANOUT DETAIL 'B'



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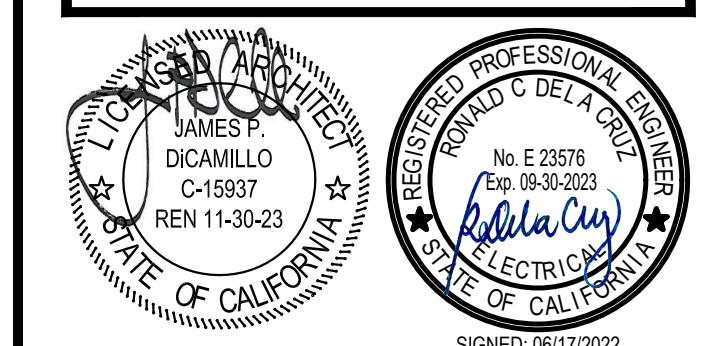
WATER AND SEWER PLAN

DRAWING NUMBER: **C-6**



RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
ROWLAND UNIFIED SCHOOL DISTRICT
3003 E. HOLLINGWORTH ST., WEST COVINA, CA



CONSULTANT
LEAF ENGINEERS
8163 Rochester Ave. Suite 100
Rancho Cucamonga, CA 91730
909-987-3111
leafengineers.com

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: [Signature] **CHECKED:** [Signature]
DATE: 04/21/2022 **SCALE:** AS NOTED
PROJECT NUMBER: W2105400AR

ELECTRICAL
TITLE 24

DRAWING NUMBER: **E0.1**

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Hollingworth Elementary School - New Modular Restroom Building Report Page: Page 3 of 6
Project Address: 3003 E. Hollingworth St., West Covina CA, 91792 Date Prepared: 04-13-22

G. CUTOFF REQUIREMENTS (BUG)
This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS
Table Instructions: Complete this table demonstrating 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. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

Area Description	02 Shut-Off §130.2(c)1	03 Auto-Schedule §130.2(c)2	04 Motion Sensor §130.2(c)3	05 Field Inspector	
				Pass	Fail
Portables	Astronomical Timer	Yes	NA: Wall > 24ft	<input type="checkbox"/>	<input type="checkbox"/>

*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).

I. LIGHTING POWER ALLOWANCE (per §140.7)
Table Instructions: Please complete this table for areas using the 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.

Area Description	01 General Hardscape Allowance	01 "Use it or lose it" Allowances (select all that apply)				
		Per Application	Sales Frontage	Ornamental	Per Specific Area	Table I (below)
FX-A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Table J

J. LIGHTING ALLOWANCE: PER APPLICATION
Table Instructions: Please complete this table for areas using the wattage allowance per application from Table 140.7-B.
Table Continued

STATE OF CALIFORNIA
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NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Hollingworth Elementary School - New Modular Restroom Building Report Page: Page 2 of 6
Project Address: 3003 E. Hollingworth St., West Covina CA, 91792 Date Prepared: 04-13-22

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table F. Outdoor Lighting Fixture Schedule Permit Applicant Notes:
FX-A: EXCEPTION 6 to Section 130.2(b): Luminaires that illuminate the public right of way on publicly maintained roadways, sidewalks, and bikeways

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2, (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

01 Name or Item Tag	02 Complete Luminaire Description	03 Watts per luminaire ¹	04 How Wattage is determined	05 Total number luminaires ²	06 Luminaire Status ³	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. ≥ 6,000 initial lumen output §130.2(b)*	10 Field Inspector
FX-A	WALLPACK <input type="checkbox"/> Linear	15	Mfr. Spec ⁴	8	New	<input type="checkbox"/>	120	Exempt*	<input type="checkbox"/>
Total Designed Watts: 120									

*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).
* For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
* 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.
* Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

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CERTIFICATE OF COMPLIANCE
Project Name: Hollingworth Elementary School - New Modular Restroom Building Report Page: Page 1 of 6
Project Address: 3003 E. Hollingworth St., West Covina CA, 91792 Date Prepared: 04-13-22

A. GENERAL INFORMATION

01 Project Location (city)	West Covina	04 Total Illuminated Hardscape Area (ft ²)	9,500
02 Climate Zone	9		
03 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):			
<input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland	<input checked="" type="checkbox"/> LZ-2: Moderate - Rural Areas	<input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
<input type="checkbox"/> LZ-1: Low - Developed Parkland	<input type="checkbox"/> LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE
Table Instructions: Include any 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)2 for alterations.
My project consists of:

01	02
<input type="checkbox"/> New Lighting System	Must Comply with Allowances from §140.7.
<input checked="" type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
03	05
% of Existing Luminaires Being Altered ¹	Calculation Method

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.
*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

C. COMPLIANCE RESULTS
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2						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)	Existing Power §141.0(b)2 (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 Must be ≥ 08
+	120	+	+	OR	=	120	≥	120
Cutoff Compliance (See Table G for Details)						Not Applicable		
Controls Compliance (See Table H for Details)						COMPLIES		

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Hollingworth Elementary School - New Modular Restroom Building Report Page: Page 6 of 6
Project Address: 3003 E. Hollingworth St., West Covina CA, 91792 Date Prepared: 04-13-22

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: Nicole Oropeza
Company: LEAF Engineers
Address: 8163 Rochester Ave.
City/State/Zip: Rancho Cucamonga

Documentation Author Signature: Nicole Oropeza
Signature Date: 04-13-2022
CEA/ HERS Certification Identification (if applicable):
Phone: 909-987-0909

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: Ronald Dela Cruz
Company: LEAF Engineers
Address: 8163 Rochester Ave.
City/State/Zip: Rancho Cucamonga

Responsible Designer Signature: [Signature]
Date Signed: 04-13-2022
License: E 23576
Phone: 909-987-0909

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Hollingworth Elementary School - New Modular Restroom Building Report Page: Page 5 of 6
Project Address: 3003 E. Hollingworth St., West Covina CA, 91792 Date Prepared: 04-13-22

D. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/NRCC/

YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTO-01-E - Must be submitted for all buildings.	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/title24/2019standards/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	<input type="checkbox"/>

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Project Address: 3003 E. Hollingworth St., West Covina CA, 91792 Date Prepared: 04-13-22

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B ¹	CALCULATED ALLOWANCE (Watts)		DESIGN WATTS				Additional Allowance (Watts)	
Portables	Bldg Entrance/ Exit	# of Locations	Allowance per Location ² (Watts)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire ³	# of Luminaires ⁴	Design Watts	
		8	15	120	FX-A	15	8	120	
Total Design Watts for this Area:								120	120
Total Allowance (Watts) All Areas:								120	

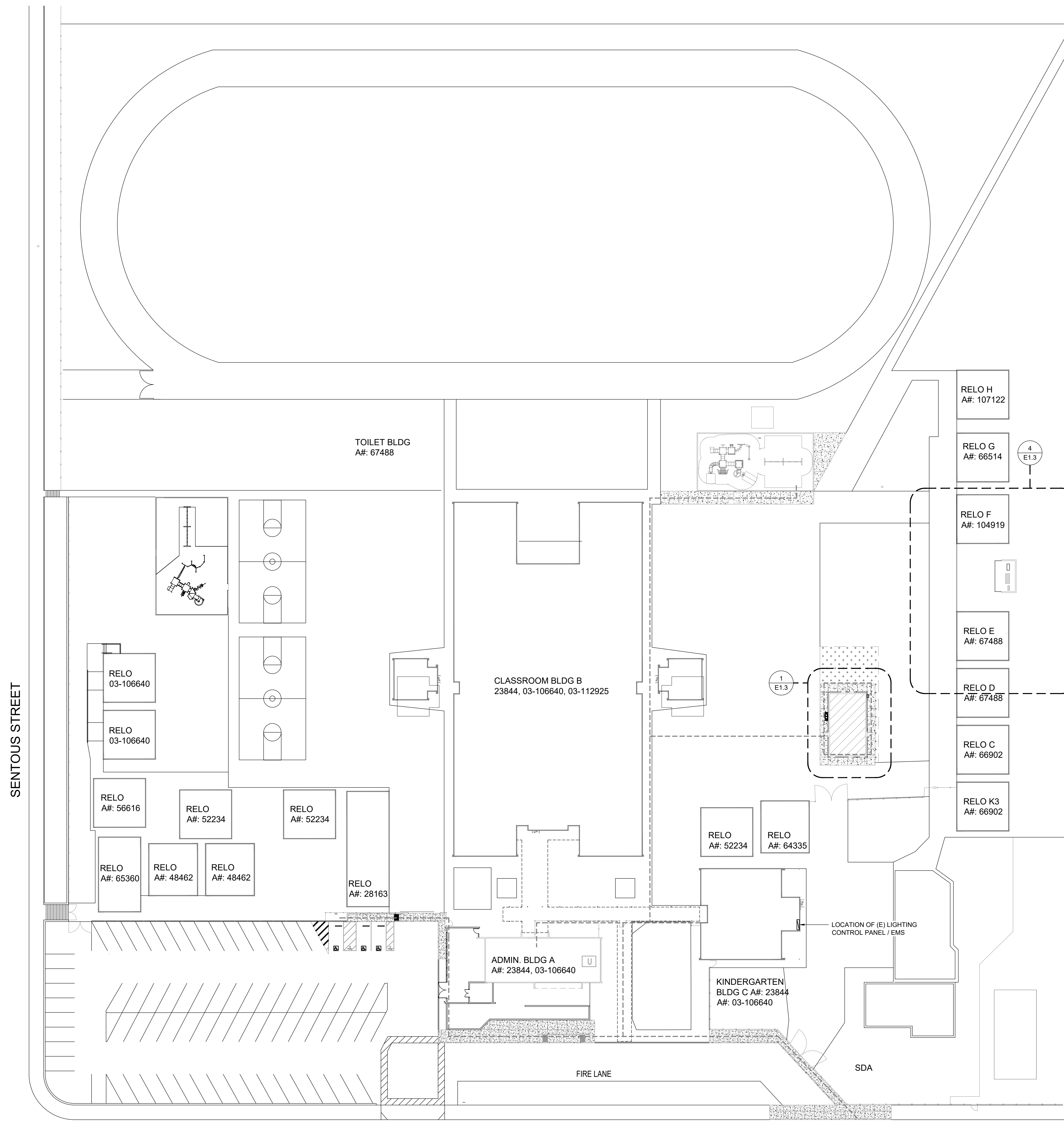
*FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
* The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B.
* For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This Section Does Not Apply


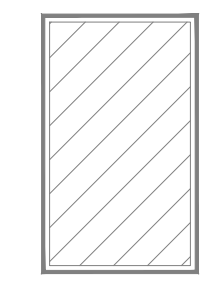
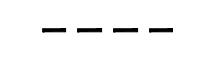
L. LIGHTING ALLOWANCE: ORNAMENTAL
This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This Section Does Not Apply



LEGEND

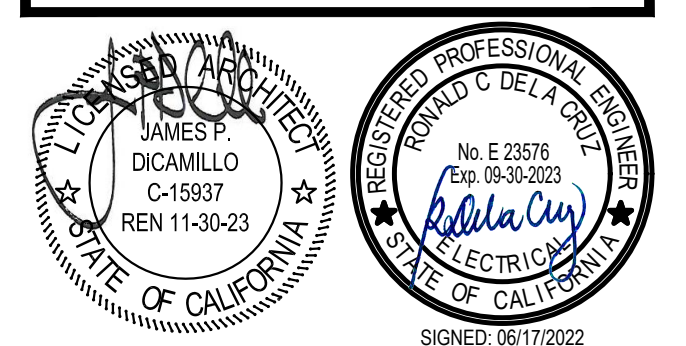
-  EXISTING BUILDING - N.I.C.
-  (N)BUILDING
-  PATH OF TRAVEL (POT) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND ARE AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (1133B.8.2) AND PROTRUDING OBJECTS GREATER THAN 4" AND LESS THAN 80" (1133B.8.6). ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE POT, AND THE POT COMPLIES WITH CBC 1133B.

IDENTIFICATION STAMP
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 APP: 03-122206 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/29/2022



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HOLLINGWORTH ELEMENTARY SCHOOL
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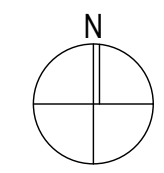
NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: NO CHECKED: RDC
 DATE: 04/21/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

ELECTRICAL SITE PLAN

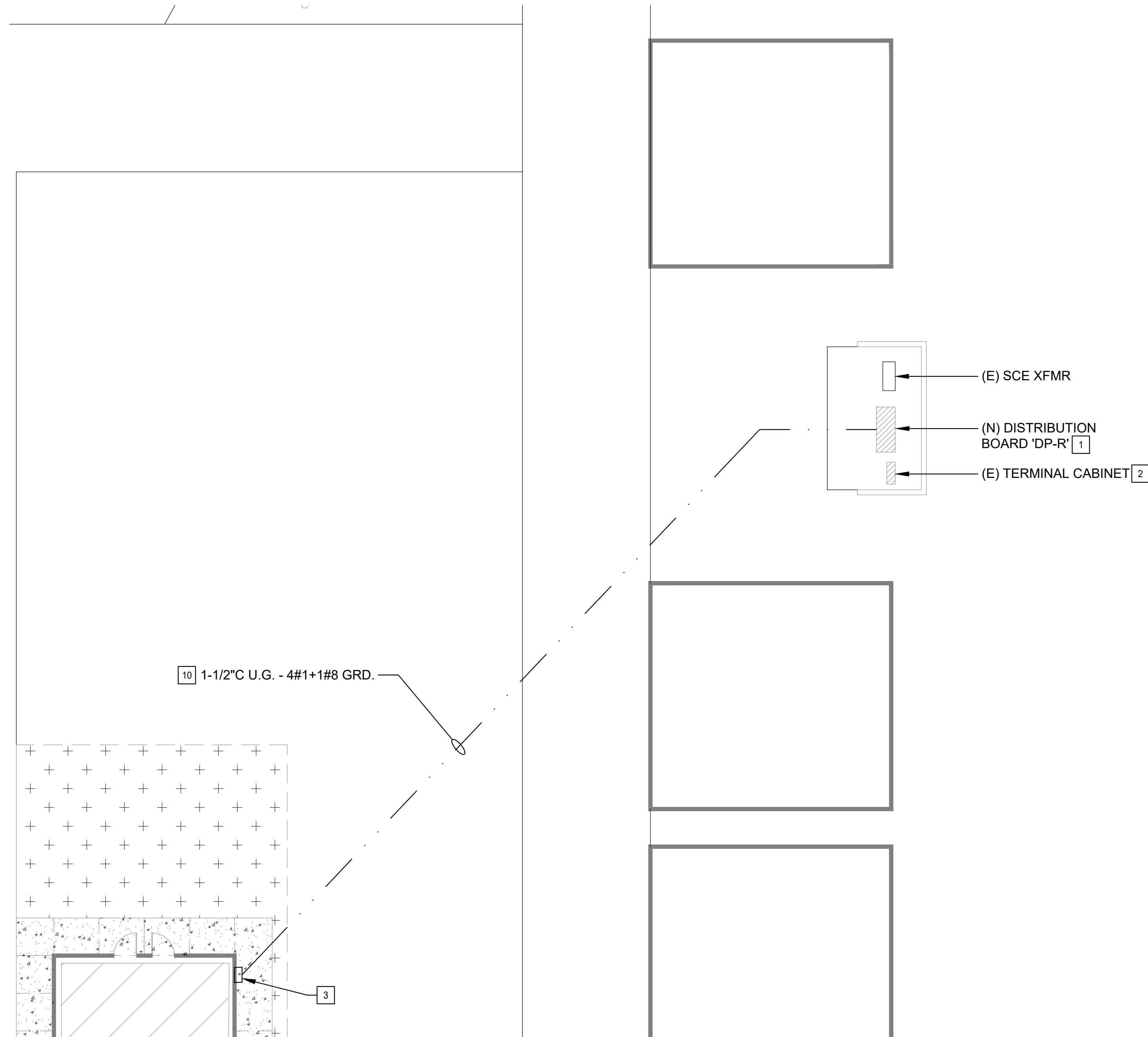
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HOLLINGWORTH STREET



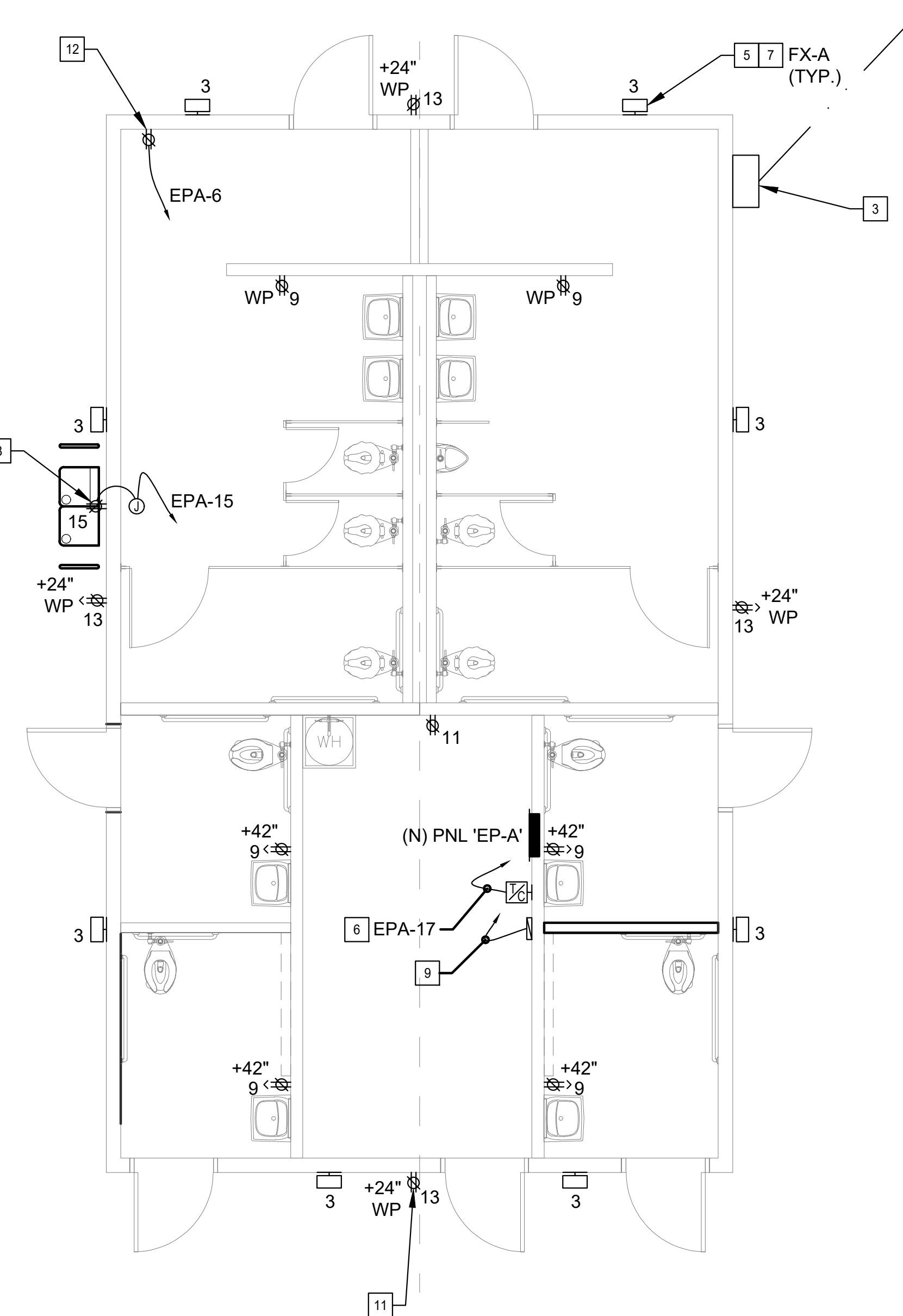
ELECTRICAL SITE PLAN

1"=30'-0" 1



ENLARGED ELECTRICAL EQUIPMENT PLAN

1"=10'-0" 4



RESTROOM BUILDING PLAN

1/4"=1'-0" 1

GENERAL NOTES

- CONTRACTOR SHALL INSPECT CONDUIT AND WIRING. PERFORM MEGOHM TEST ON ALL EXISTING WIRING. IF TESTING FAILS, CONTRACTOR SHALL PROVIDE ALL NEW WIRING. CONTRACTOR SHALL FLUSH OUT WATER FROM EXISTING CONDUIT, IF NEEDED.
- COORDINATE CONCRETE PAD SIZING AND REQUIREMENTS WITH SCE REPRESENTATIVE PRIOR TO PROCUREMENT/INSTALLATION.

CONSTRUCTION KEY NOTES

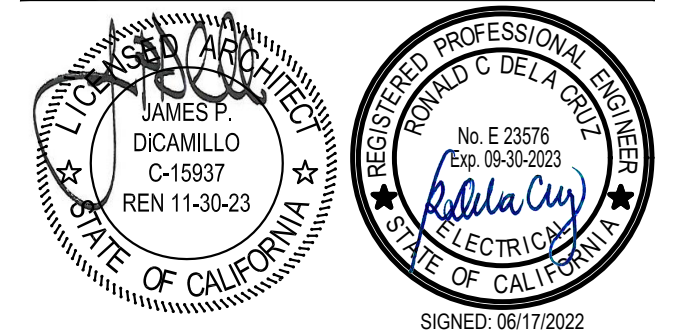
- EXISTING MAIN SWITCHBOARD SHALL BE REPLACED WITH NEW SWITCHBOARD. INTERCEPT AND EXTEND EXISTING CONDUITS AND WIRING FROM EXISTING MAIN SWITCHBOARD TO NEW MAIN SWITCHBOARD LOCATION. SEE GENERAL NOTE #1 FOR TESTING EXISTING WIRING PRIOR TO RE-INSTALLATION. COORDINATE WITH SCE REPRESENTATIVE FOR SERVICE METER.
- PROVIDE NEW NEMA 3R RATED TERMINAL CABINET. PROVIDE NEW CONDUIT AND/OR WIRING AS NEEDED.
- NEW WALL MOUNTED PULLBOX. CONTRACTOR SHALL SIZE PER NEC REQUIREMENTS.
- CIRCUIT THROUGH NEW RELAY/CONTACTOR TO MATCH EXISTING BUILDING. CONTRACTOR TO FIELD VERIFY TO MATCH EXISTING MODEL NUMBER IN ADJACENT EXISTING PORTABLES. TIE IN NEW RELAY TO EXISTING EMS.
- PROVIDE EXTERIOR WALLPACK LIGHTING FOR ILLUMINATION OF EMERGENCY EGRESS. PROVIDE NEW 20A/1P BREAKER IN PORTABLE BUILDING PANELBOARD AND ROUTE 2#12, 1#12G, 3/4" THROUGH PLENUM AND BETWEEN PORTABLE BUILDINGS TO CONNECT EXTERIOR WALLPACK LIGHTING.
- PROVIDE ASTRONOMICAL TIMECLOCK FOR SCHEDULED ON/OFF SWITCHING OF NEW EXTERIOR WALLPACK LIGHTING MOUNTED ON PORTABLE BUILDINGS. CONFIRM EXACT LOCATION IN FIELD PRIOR TO INSTALLATION.
- PROVIDE MYERS 25W MICRO INVERTER ILLUMINATOR #LVU-25VA FOR EMERGENCY POWER BACKUP OF LIGHT FIXTURE.
- PROVIDE NEW GFCI RECEPTACLE WITH DEDICATED 20/1 GFCI CIRCUIT BREAKER TO NEW DRINKING FOUNTAIN. 3/4" C-2#12 + 1#12 GRD. COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND MOUNTING HEIGHT/S.
- TIE ALL LIGHTING CIRCUITS AND LIGHTING CONTROLS INTO EXISTING EMS. PROVIDE NEW LIGHTING RELAY/CONTACTOR TO PORTABLE LIGHTING AND EXTERIOR LIGHTING.
- SAWCUT, TRENCH AND EXCAVATE AS REQUIRED TO INSTALL CONDUITS AND FEEDERS AS INDICATED. BACKFILL, TAMP AND RESURFACE TO ORIGINAL CONDITION. STUB UP INTO EXTERIOR ABOVE GROUND JUNCTION BOX AND CONNECT LOAD SIDE TO PRE-INSTALLED MODULAR BUILDING PANELBOARD. REFER TO DETAIL 1/E5.1 FOR FURTHER CONDUIT TRENCHING REQUIREMENTS.
- PROVIDE WEATHERPROOF COVER WITH LOCK.
- PROVIDE 120V POWER FOR FIRE ALARM "FAPS". SEE FIRE ALARM PLANS FOR EXACT LOCATION AND ADDITIONAL INFORMATION.

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NO	DATE	BY	DESCRIPTION
REVISIONS			

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DATE: 04/21/2022	SCALE: AS NOTED
PROJECT NUMBER: W2105400AR	

ELECTRICAL
ENLARGED SITE
AND FLOOR PLAN

DRAWING NUMBER: E1.3

DEMO KEYNOTES

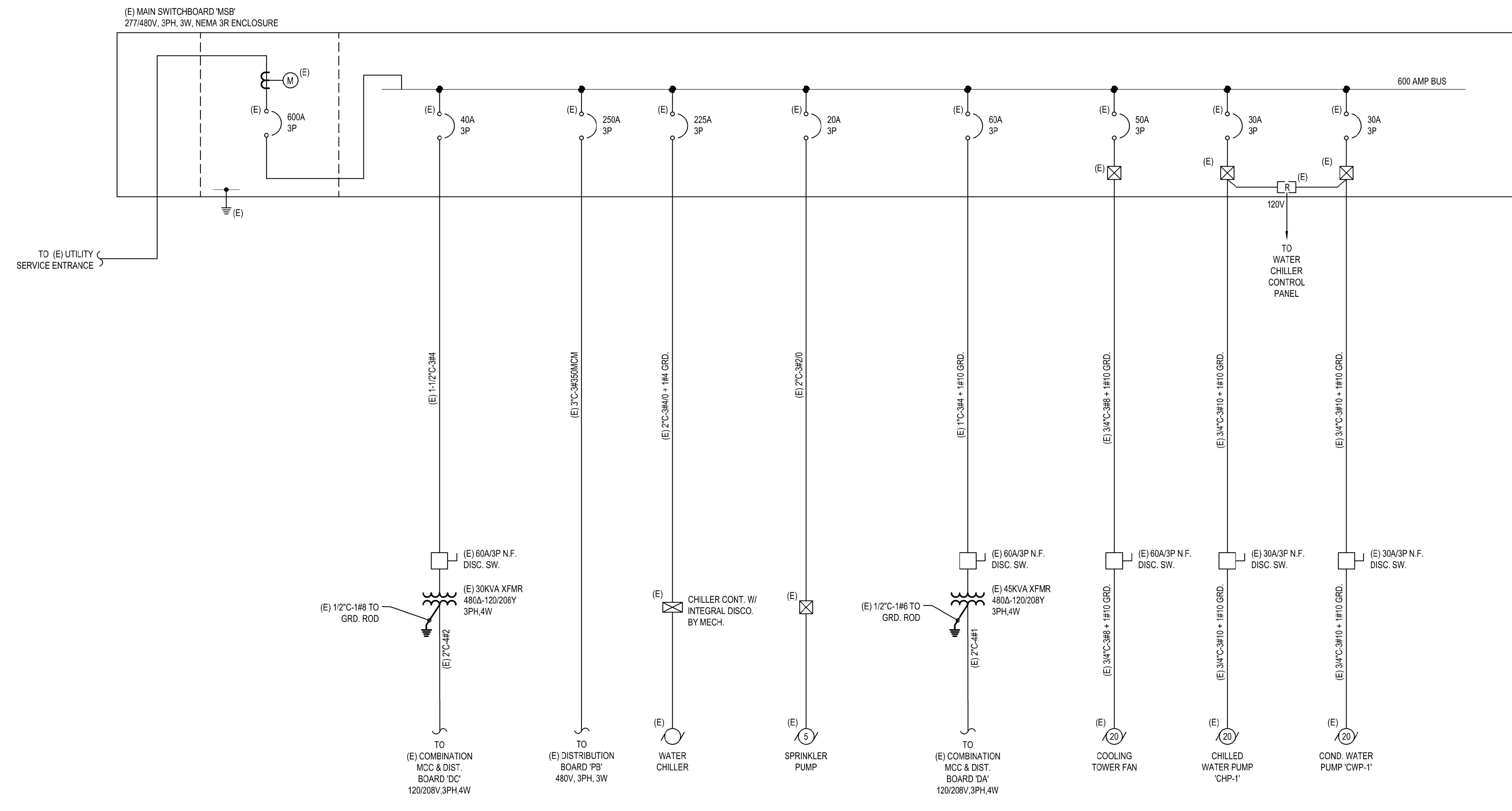
- 1 DEMOLISH EXISTING DISTRIBUTION BOARD.
- 2 DISCONNECT EXISTING CONDUIT AND WIRING FROM DISTRIBUTION BOARD. EXISTING CONDUIT AND WIRING SHALL BE RE-USED FOR NEW INSTALLATION.

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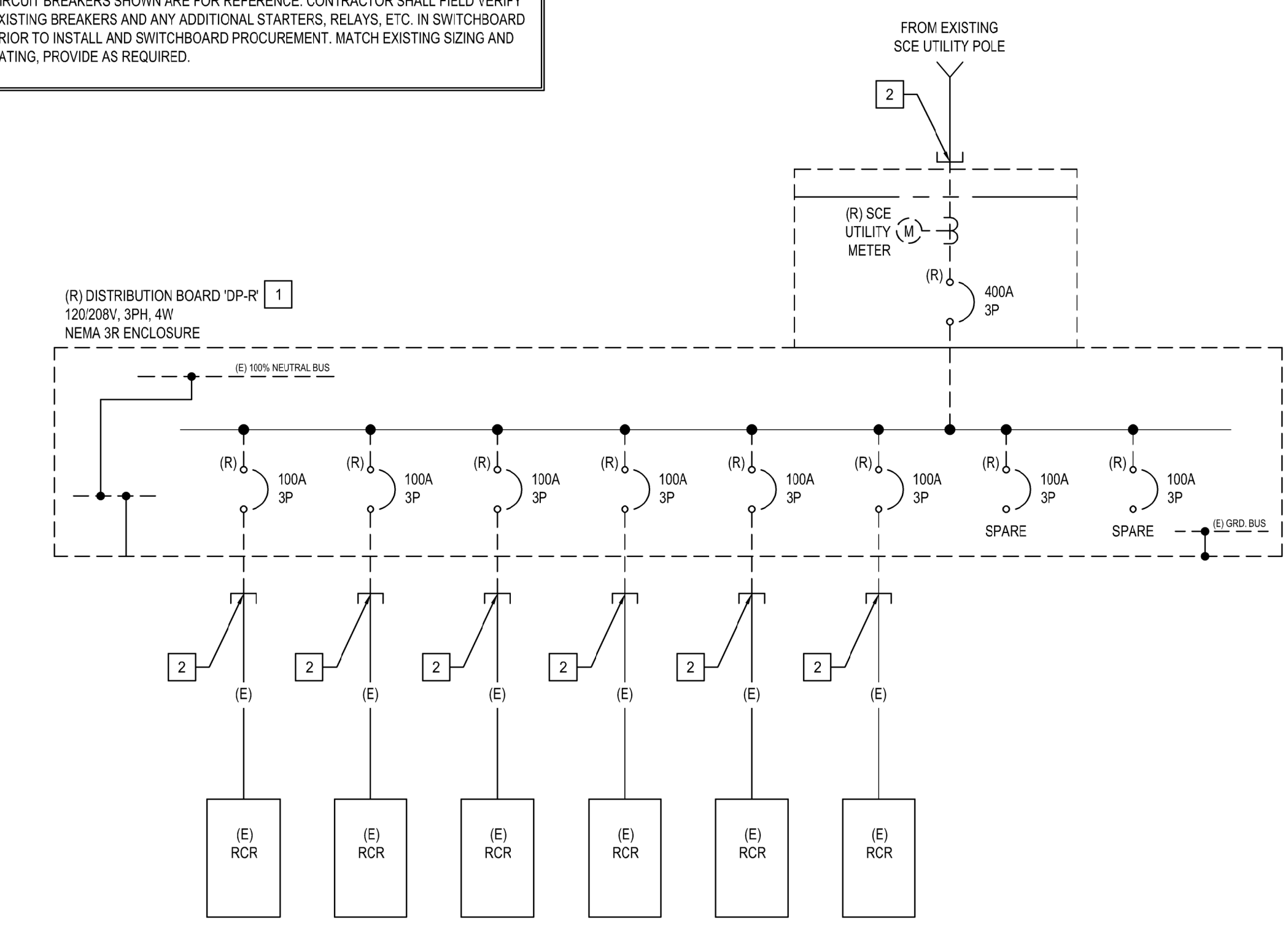


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3003 E. HOLLINGWORTH ST., WEST COVINA, CA



"NOTE":
CIRCUIT BREAKERS SHOWN ARE FOR REFERENCE. CONTRACTOR SHALL FIELD VERIFY EXISTING BREAKERS AND ANY ADDITIONAL STARTERS, RELAYS, ETC. IN SWITCHBOARD PRIOR TO INSTALL AND SWITCHBOARD PROCUREMENT. MATCH EXISTING SIZING AND RATING. PROVIDE AS REQUIRED.

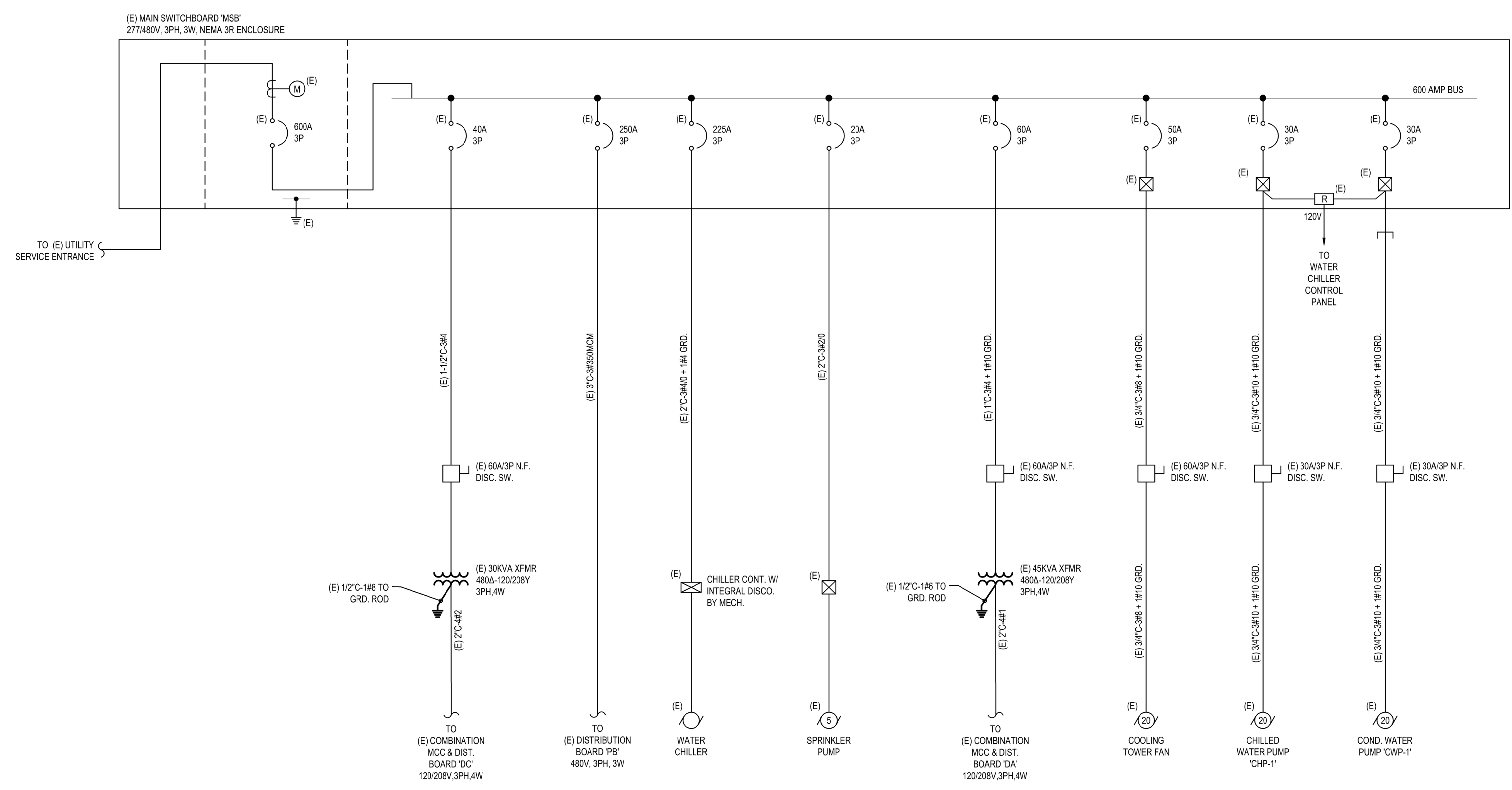


ELECTRICAL SINGLE LINE DIAGRAM - DEMO

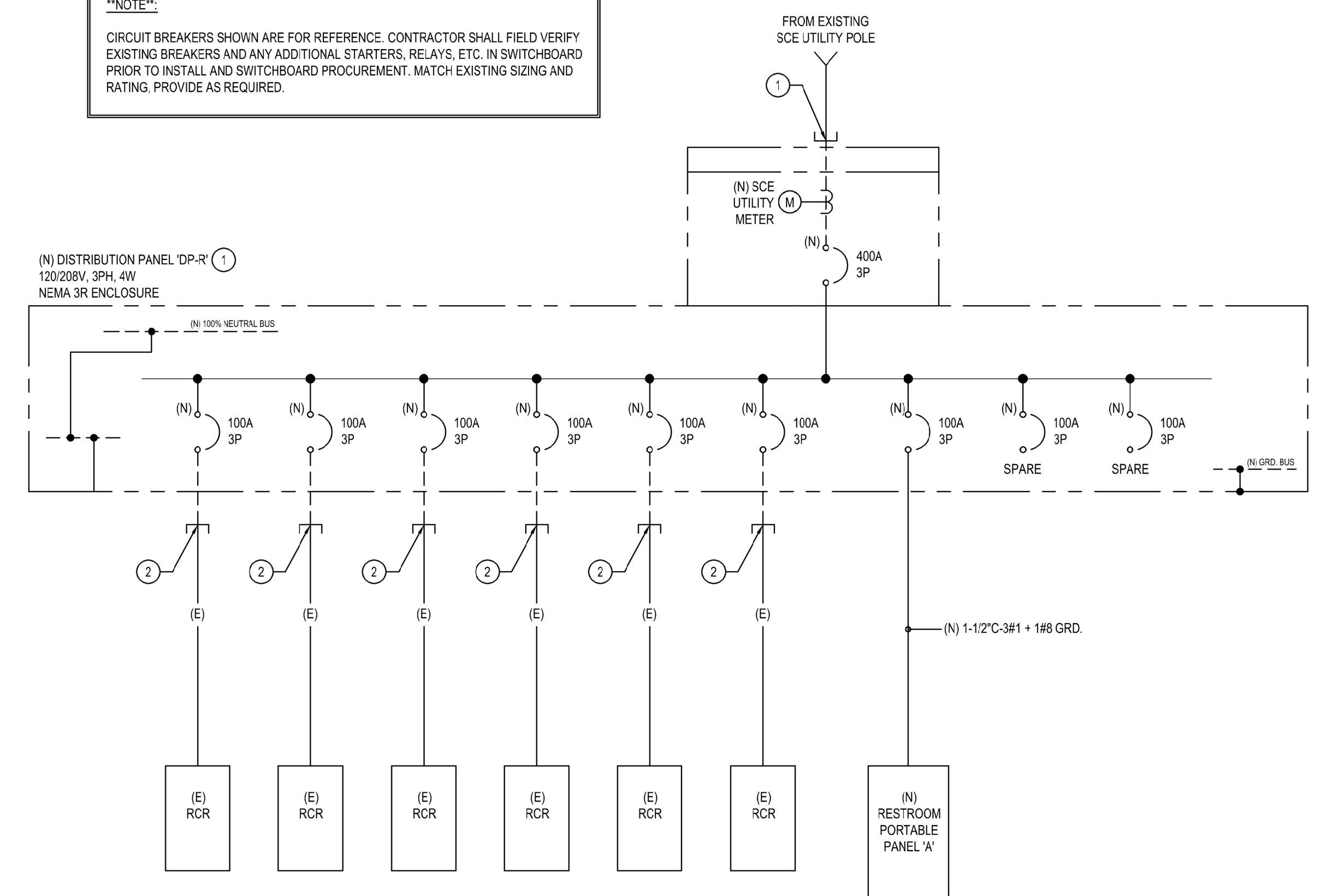
N.T.S. 1

NEW WORK KEYNOTES

- 1 INSTALL NEW 120/208V DISTRIBUTION BOARD.
- 2 INTERCEPT AND EXTEND ALL EXISTING CONDUIT AND WIRING CONNECTIONS TO NEW DISTRIBUTION BOARD. MAINTAIN CIRCUIT BREAKER DESIGNATIONS AND RATINGS.



"NOTE":
CIRCUIT BREAKERS SHOWN ARE FOR REFERENCE. CONTRACTOR SHALL FIELD VERIFY EXISTING BREAKERS AND ANY ADDITIONAL STARTERS, RELAYS, ETC. IN SWITCHBOARD PRIOR TO INSTALL AND SWITCHBOARD PROCUREMENT. MATCH EXISTING SIZING AND RATING. PROVIDE AS REQUIRED.



ELECTRICAL SINGLE LINE DIAGRAM - NEW

N.T.S. 2



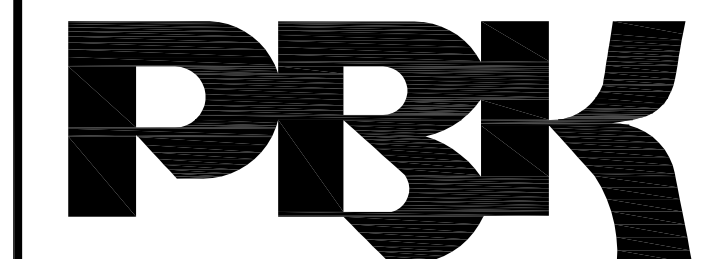
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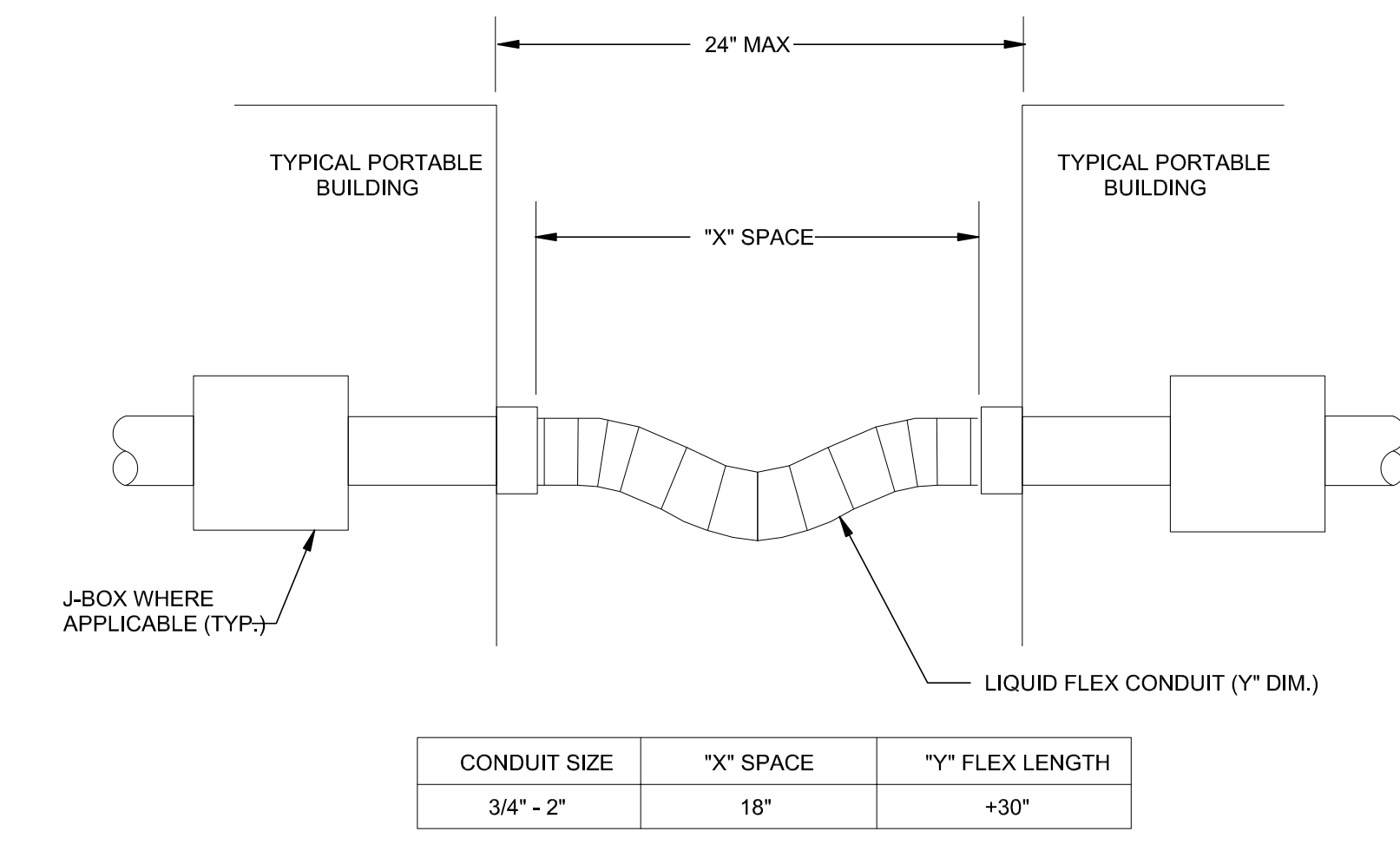
ELECTRICAL SINGLE LINE DIAGRAMS

DRAWING NUMBER: **E4.1**

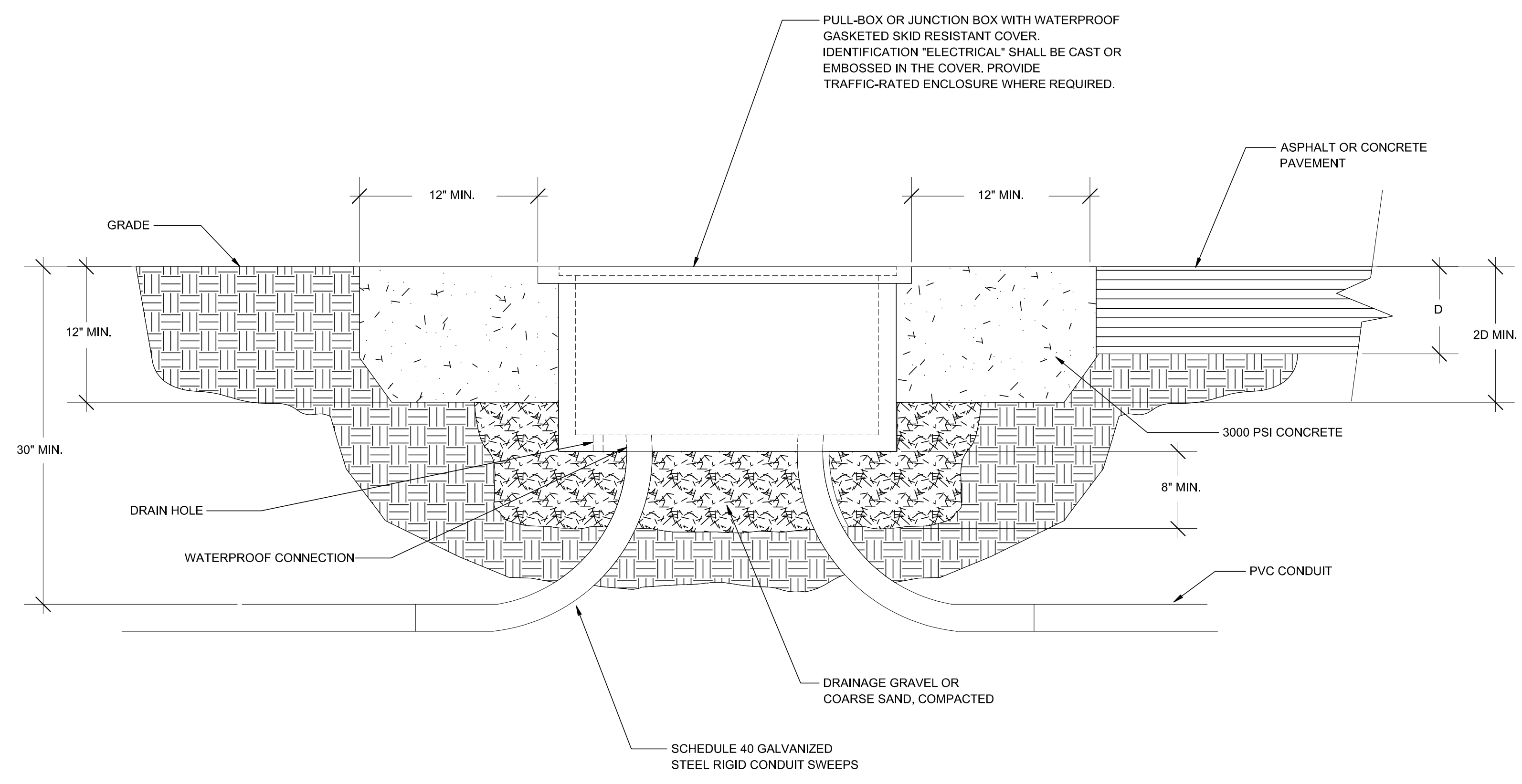


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CONDUIT RUN THRU SEISMIC SEPARATION DETAIL N.T.S. 3



EXTERIOR JUNCTION BOX DETAIL N.T.S. 2

TYPE	DESCRIPTION	VOLTAGE	MOUNTING	MANUFACTURER & NO.	REMARKS
FX-A	WALLPACK	120V	SURFACE	LITHONIA LIGHTING WDGE3 LED P-2 40K 80CRI RFT 120 SRM PE PIR DBLXD E20WC	PROVIDE EMERGENCY BATTERY BACKUP 'E20WC' OPTION

LIGHT FIXTURE SCHEDULE N.T.S. 5

Job: Hollingworth ES - Restroom Bldg Job No: W2105400AR A/C Rating: 14000
 Voltage: 120/240V-1PH-3W
 Main Type: RECESSED
 Neutral: TCO
 Grounding: Equipment Ground
 Lugs: SINGLE

PANEL		EPA		ALL LOADS IN VA		Description		Lugs		SS							
Ln	Recept	Motor	Heat	Cool	Equip	Kitchen	SS	Ln	Recept	Motor	Heat	Cool	Equip	Kitchen	SS		
360							0.00	20T	12	1	A	2	4	802	HVAC	7680	0.00
120							0.00	20T	12	3	B	4	4		HVAC	7680	0.00
100							0.00	20T	12	5	A	6	12	20T	FRAPS**	200	0.00
100							0.00	20T	12	7	B	8			SPACE		0.00
1000							0.00	20T	12	9	A	10			SPACE		0.00
100							0.00	20T	12	11	B	12			SPACE		0.00
750							0.00	20T	12	13	A	14			SPACE		0.00
100							0.00	20T	12	15	B	16			SPACE		0.00
100							0.00	20T	12	17	A	18			SPACE		0.00
							1.00	20T	12	19	B	20			SPACE		0.00
							1.00	20T	12	21	A	22			SPACE		0.00
							1.00	20T	12	23	B	24			SPACE		0.00
							1.00	20T	12	25	A	26			SPACE		0.00
							1.00	20T	12	27	B	28			SPACE		0.00
							1.00	20T	12	29	A	30			SPACE		0.00
580	2280	0	0	0	0	0	0.00	TOTALS	0	0	15560	0	0	0	0	0.00	

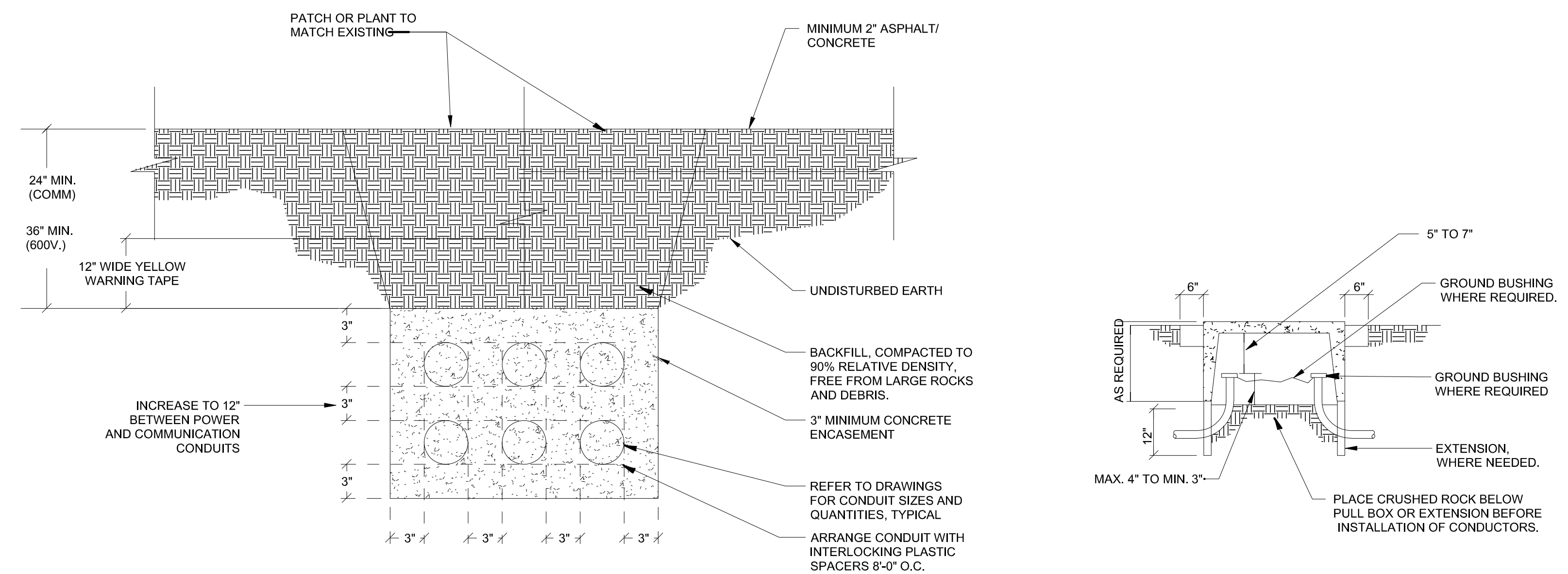
LOAD SUMMARY (KVA)
 Ln Recept Motor Heat Cool Other Kitchen SS Description
 0.0 2.3 15.0 0.0 0.0 0.0 0.0 0.0 Connected KVA
 1.25 ** 1.00 1.00 1.00 1.00 0.85 0.50 Dw Factor
 0.7 2.2 15.0 0.0 0.0 0.0 0.0 0.0 Design KVA

Phase Load (KVA)
 Phase A 7.1
 Phase B 8.2

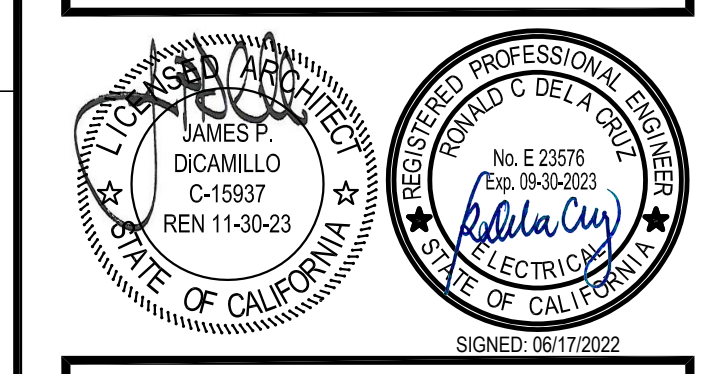
Panel Remarks:
 ** INDICATES - PROVIDE RED LOCK-ON COVER
 ** INDICATES - PROVIDE GFCI RATED CIRCUIT BREAKER

PANEL: EPA
 Date: 6/17/2022 By: N. OROPEZA

PANEL SCHEDULE N.T.S. 4



TYPICAL PULL BOX AND CONDUIT PLACEMENT DETAIL N.T.S. 1



CONSULTANT
LEAF ENGINEERS
 8163 Rochester Ave., Suite 100
 Rancho Cucamonga, CA 91730
 909-390-3111
 leafengineers.com

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: NO CHECKED: RDC
 DATE: 04/21/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

ELECTRICAL DETAILS & SCHEDULES

DRAWING NUMBER: **E5.1**

DEVICE SCHEDULE

SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT	C.S.F.M. NUMBER
[FACP]	NEW FIRE ALARM CONTROL PANEL WITH VOICE EVAC MICROPHONE	NFS2-3030	NOTIFIER	PROVIDED		7165-0028-0224
[ANN]	EXISTING FIRE ALARM ANUNCIATOR	LCD-80		N/A		--
[FATC]	FIRE ALARM TERMINAL CABINET	N/A	BY ELECTRICAL CONTRACTOR	N/A		N/A
[FAPS]	FIRE ALARM POWER SUPPLY	FAPS-2458		N/A		7315-0028-0225
[S]	ADDRESSABLE AREA SMOKE DETECTOR (PHOTOELECTRIC)	FSP-951 E200S		4S DEEP BOX W/ 3-4 RING	CEILING	7272-0028-0503 7300-1653-0213
[A]	ADDRESSABLE AREA HEAT DETECTOR	FST-881A (CEILING) FST-881HA (ATTIC) E200S		4S DEEP BOX W/ 3-4 RING	*'A' DENOTES ATTIC/ 'C' DENOTES CEILING	7270-0028-0196 7300-1653-0213
[W/P]	FIRE ALARM EXTERIOR WEATHERPROOF SPEAKER	SPRK	SYSTEM SENSOR	4S DEEP BOX W/ 4S EXTENSION		7320-1653-0211
[X]	FIRE ALARM CEILING MOUNTED SPEAKER/STROBE	SPSCVL	SYSTEM SENSOR	4S DEEP BOX W/ 4S EXTENSION		7320-1653-0505
[X]	FIRE ALARM CEILING MOUNTED STROBE	SCVL	SYSTEM SENSOR	4S DEEP BOX W/ 4S EXTENSION		7125-1653-0504
[JTB]	FIRE ALARM JUNCTION BOX	N/A	BY ELECTRICAL CONTRACTOR	N/A		N/A
[EOL]	END OF LINE RESISTOR	N/A	N/A	N/A		N/A

NOTE:
1. UNLESS NOTED AS EXISTING, ALL THE DEVICES SHOWING ON THE DRAWINGS ARE NEW.

LEGENDS

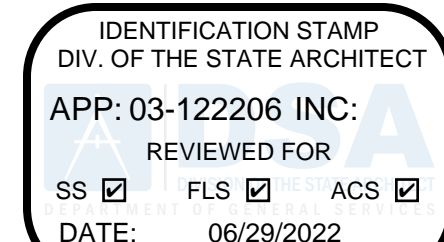
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES	NC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NO	NUMBER
AIC	ARCHES INTERRUPTING CAPACITY	PH OR Ø	PHASE
ARCH.	ARCHITECT, ARCHITECTURAL	PNL	PANEL
AWG	AMERICAN WIRE GAUGE	PWR	POWER
C	CONDUIT	REC/RECEPT	RECEPTACLE
CKT	CIRCUIT	REQD	REQUIRED
CL	CEILING MOUNTED DEVICE	RM	ROOM
C.O.	CONDUIT ONLY WITH PULL WIRE	SF	SQUARE FEET
CU	COPPER	SHT	SHEET
DWG	DRAWING	SP	SINGLE POLE
ER	EXISTING DEVICE TO BE REMOVED	SPECS	SPECIFICATIONS
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EQUIP	EQUIPMENT	TYP	TYPICAL
EXIST / (E)	EXISTING	UG	UNDERGROUND
FIN	FINISH	U.O.N.	UNLESS OTHERWISE NOTED
FLR	FLOOR	V	VOLTS
FT	FEET	V-A	VOLT-AMPERES
GF1	GROUND FAULT INTERRUPTER	W	WATTS
GND	GROUND	WI	WITH
LTG.	LIGHTING	W/O	WITHOUT
MTG	MOUNTING	WP	WEATHERPROOF
N	NEW	WPC	CALIFORNIA ELECTRICAL CODE
[FS]	FLOW SWITCH		
[JB]	JUNCTION BOX		
[PIV]	POST INDICATOR VALVE		
[TS]	TEMPER SWITCH		
[#]	PULL BOX (WEATHERPROOF)		
[#]	RISER UP AND DOWN		

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020 *
 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, 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 ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
 (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
 2019 CALIFORNIA FIRE CODE (FC), PART 5, TITLE 24 CCR
 (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
 2019 CALIFORNIA FIRE CODE (FC), PART 9, TITLE 24 CCR
 (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
 2019 CALIFORNIA EXISTING BUILDING CODE (CEB), PART 10, TITLE 24 CCR
 (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
 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 MARSHAL REGULATIONS
 PARTIAL LIST OF APPLICABLE STANDARDS
 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED); 2016 EDITION
 NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT;
 2016 EDITION
 NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2016 EDITION
 UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS; 1999 EDITION
 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 (R2010)
 ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING 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.

DRAWING INDEX

SHEET NO.	DESCRIPTION
FA0.0	FIRE ALARM SYMBOLS AND ABBREVIATIONS
FA1.1	FIRE ALARM SITE PLAN
FA1.3	FIRE ALARM ENLARGED FLOOR PLAN
FA3.1	FIRE ALARM RISER, CALCULATIONS & DETAILS



RANCHO CUCAMONGA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-987-0909 P

FIRE WATCH NOTE

A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE. A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE) PER DSA IR-F-2 AND CFC 901.7.

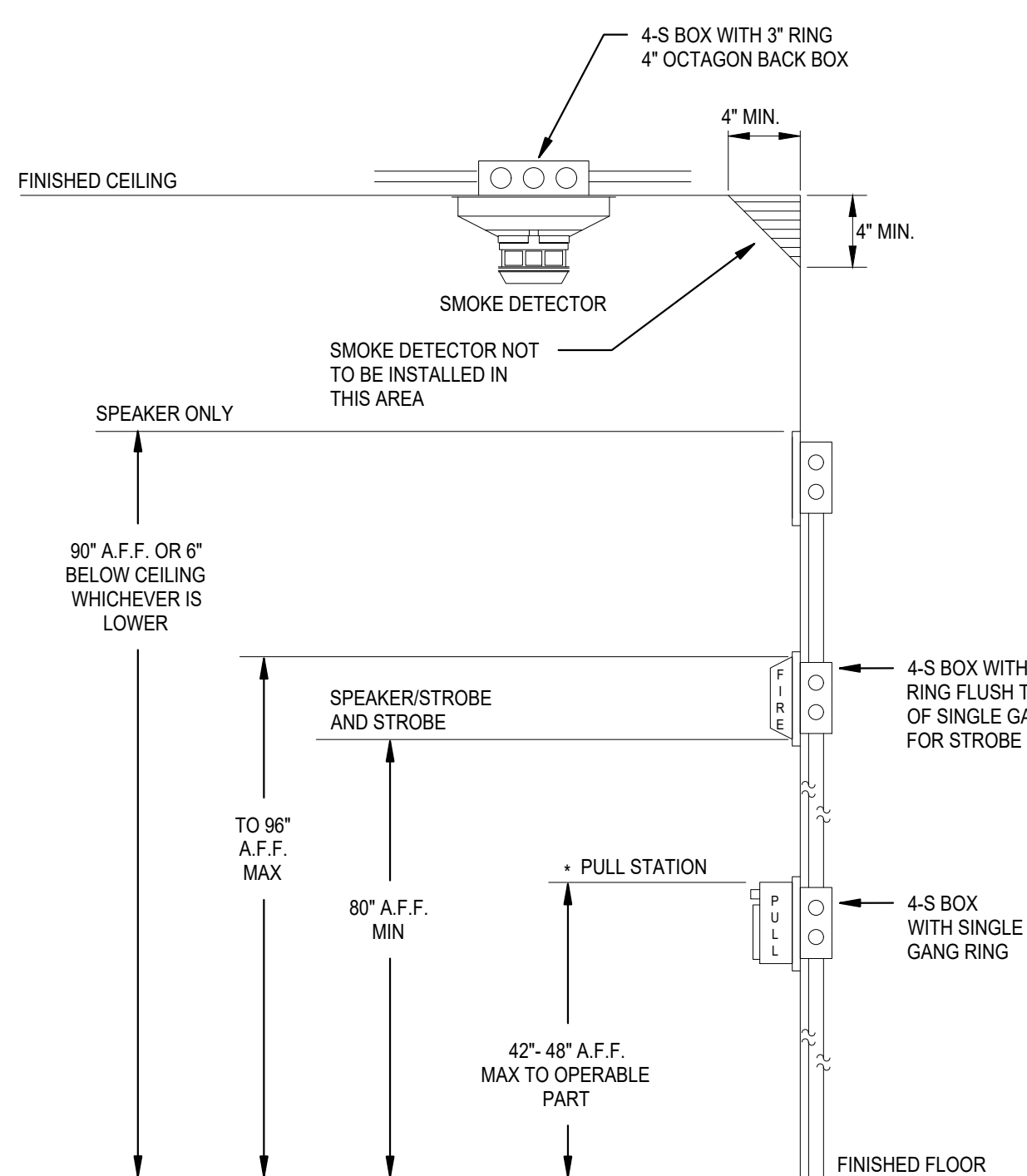
SCOPE OF WORK

PROVIDE COMPLETE FULL AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE AREA OF WORK. PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN IN EQUIPMENT LEGEND, FLOOR PLANS, AND SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET. USE NEW FIRE ALARM CONTROL PANEL TO CONNECT NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWING AND SPECIFICATION DOCUMENT. UPON COMPLETION, A COMPLETE PRE TEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

GENERAL NOTES

- APPLICABLE STANDARD 2016, NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
- 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.
- UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- 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.
- DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND ICR TESTING.
- 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 APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- WALL MOUNTED NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER. IN EVERY OCCUPABLE SPACE WITHIN THE BUILDING.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA, VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE PER FOR PFLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THN OR THHN.
- 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. ALL BOXES TO BE SIZED PER CEC.
- SMOKE DETECTORS SHALL NOT BE CLOSER THAN 1" FROM FIRE SPRINKLERS OR 3" 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.
- ALL FIRE ALARM CIRCUITS SHALL BE INSTALLED IN CONDUIT, SURFACE RAYON OR OPEN RUN ABOVE CEILING, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS.
- EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- FIRE ALARM PANEL, DEVICES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL" CIRCUIT TO BE LABELED AT FIRE PANEL ENDERS.
- THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, CHAPTER 7.2.2.
- FIRE ALARM CONTROL PANELS AND REMOTE ANUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
- MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE. INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
- THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 301.6.2.
- SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
- ALL EQUIPMENT SHALL BE UL LISTED AND C.S.F.M. LISTED.
- ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.
- DO NOT REMOVE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM DSA. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT AREA RESULT OF CONDUIT RUN CONDITIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- ALL FIRE ALARM CIRCUITS, INCLUDING FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED DRAWINGS SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED PER THE MANUFACTURERS INSTRUCTIONS.
- ALL WIRING, INITIATING DEVICES AND ANUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICES CIRCUITS.
- ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
- POINT, COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED.
- PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
- ALL CONDUIT SHALL BE 1/4" UNLESS OTHERWISE NOTED.
- ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SYSTEM SENSOR MODEL "WFD SERIES" ONLY.
- ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- FIRE ALARM SYSTEM SHALL BE UL LISTED (ULUS).
- CFC 907.8.5.1 (SFM AMENDMENT) REQUIRES FIRE ALARM TO "TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISORY STATION SHALL BE LISTED AS EITHER UJFC (CENTRAL STATION) OR ULUS (REMOTE AND PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FM 3011".
- SUBSTITUTION OF SYSTEM COMPONENTS OR MANUFACTURER WILL REQUIRE THE CONTRACTOR TO SEPARATELY OBTAIN APPROVAL WITH THE DSA AT CONTRACTORS EXPENSE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE CALIFORNIA STATE FIRE MARSHAL.
- FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SUPERVISING STATION.
- COORDINATE WITH THE ENGINEER FOR USE OF EXISTING CONDUIT ON A CASE BY CASE BASIS.
- PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST THE INTERCOM SYSTEM TO ENSURE FULL FUNCTIONALITY. GENERATE A LIST OF FAULTY EQUIPMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EQUIPMENT REPAIRS OR REPLACEMENT.
- CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM SYSTEM FROM THE EXISTING INTERCOM SYSTEM. ENSURE THE INTERCOM SYSTEM IS COMPLETELY FUNCTIONAL AFTER DISCONNECTION.
- CONTRACTOR SHALL CLEARLY MARK THE ABANDON SECTION OF PUBLIC ADDRESS SYSTEM.
- PROVIDE A FIRE ALARM DOCUMENTATION CABINET PER NFPA 72.7.
- FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING 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 REGULATION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS, AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE ENGINEER AND SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (CAC 4.317(C)).
- CHANGES TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE-SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON (CAC 4.338(C)).
- PROJECT INSPECTOR TO APPROVE SYSTEM VOICE EVACUATION INTELLIGIBILITY DURING TESTING PHASE.
- CONTRACTOR SHALL PROVIDE ALL CABLING, RELAYS, MOUNTING HARDWARE AND ANY OTHER DEVICES (FIRE ALARM SYSTEM DEVICES) TO PROVIDE A FULLY FUNCTIONING FIRE ALARM OVERSIDE SYSTEM. WHEN FIRE ALARM DEVICES, EACH LOCAL SOUND SYSTEM SHALL AUTOMATICALLY REVERT TO NORMAL OPERATION. FIRE ALARM MODULES AND CABLING BY FIRE ALARM CONTRACTOR.
- FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "H" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
- AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFC (CENTRAL STATION) OR ULUS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 917.6.2.
- THE NEW PROJECT SUBMITTAL TO INCLUDE DIRECTION THAT FIRE ALARM SYSTEM RECORD OF COMPLETION AND FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING FORM THESE TWO DOCUMENTS FROM NFPA 72 ARE TO BE COMPLETED AND SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT. A COPY OF COMPLETED AND SIGNED FORM SHALL BE GIVEN TO THE ARCHITECT OR ENGINEER OF RECORD, THE PROJECT INSPECTOR, THE OWNER (SCHOOL DISTRICT) AND LOCAL FIRE AUTHORITY.

ELEVATION MOUNTING DETAIL

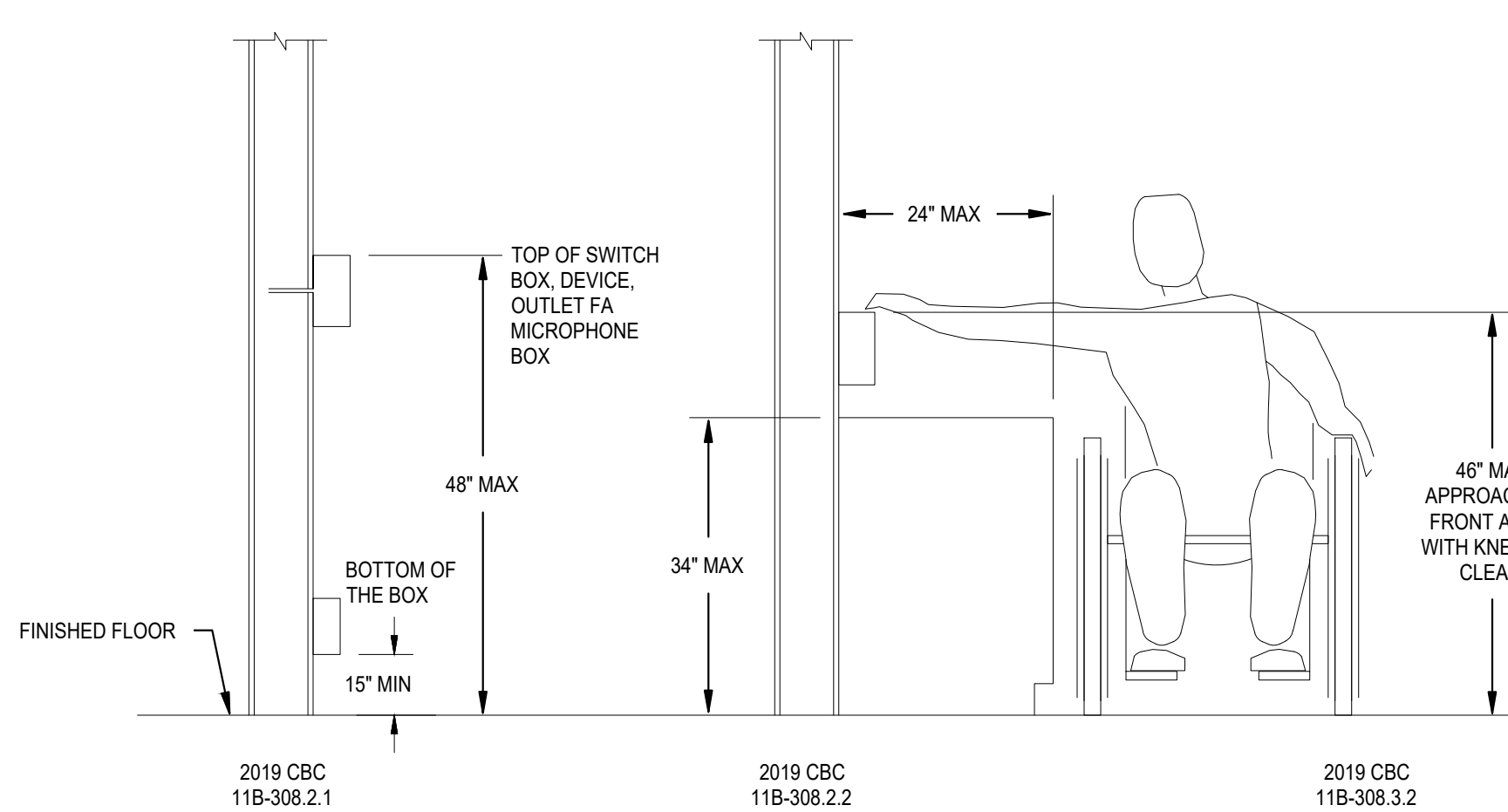


NOTES:
 THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN 80" AND 96" ABOVE FLOOR FINISH (AFF).
 IF CEILING HEIGHTS EXCEED 30 FEET, STROBE LIGHTS MUST BE SUSPENDED AT OR BELOW 30 FEET.
 MANUAL FIRE ALARM BOXES SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 907.3.1 THROUGH 907.3.5.
 MANUAL FIRE ALARM BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT THE TRAVEL DISTANCE TO THE NEAREST BOX DOES NOT EXCEED 200 FEET.
 THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES, MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOX. MANUAL FIRE ALARM BOXES SHALL ALSO COMPLY WITH 2019 CBC SECTION 11B-309.4.
 PER NFPA 72 CHAPTER A.17.7.4.1 DETECTORS SHOULD NOT BE LOCATED IN ADIRECT AIRFLOW OR CLOSER THAN 36 IN. (910 MM) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. SUPPLY OR RETURN SOURCES LARGER THAN THOSE COMMONLY FOUND IN RESIDENTIAL AND SMALL COMMERCIAL ESTABLISHMENT CAN REQUIRE GREATER CLEARANCE TO SMOKE DETECTORS. SIMILARLY, SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.
 EXCEPTIONS: (DSA-ACJ) IN EXISTING BUILDINGS THERE IS NO REQUIREMENT TO RETROACTIVELY RELOCATE EXISTING MANUAL FIRE ALARM BOXES TO A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.

SEQUENCE OF OPERATIONS

DEVICE ACTION	AREA SMOKE DETECTOR	HEAT DETECTOR	120VAC POWER FAILURE	SHORT CIRCUIT	GROUND FAULT	BATTERY FAILURE
SOUND ALARM AT "FACP"	YES	YES	NO	NO	NO	NO
SOUND TROUBLE BUZZER AT "FACP"	NO	NO	YES	YES	YES	YES
ANNUNCIATE AT "FACP" AND THE REMOTE ANUNCIATOR (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES
ACTIVATE AUDIBLE / VISUAL ALARM SIGNAL THROUGHOUT BUILDING	YES	YES	NO	NO	NO	NO
ACTIVATE SIGNAL FOR OFF-SITE MONITORING	YES	YES	YES	YES	YES	YES
MUTE AUTONOMOUS LOCAL SOUND SYSTEM	YES	YES	NO	NO	NO	NO

MOUNTING OVER OBSTRUCTION DETAIL



NOTE:
 1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE. TEMPERATURE AND HUMIDITY SENSORS).

WIRE SCHEDULE

WIRE DESIGNATION	WIRE IN CONDUIT	WIRE IN CONDUIT UNDERGROUND/WET LOC.	UNDERGROUND/WET WIRE DESIGNATION
INIT. LOOP Z	2 CONDUCTOR #16 FPL TWISTED/SHIELDED WEST PENN #D991	2 CONDUCTOR #16 FPL SHIELDED WEST PENN #A0294	INIT. LOOP Z
SBUS B	4 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	4 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	SBUS B
VBUS C	2 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	2 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE	VBUS C
SPEAKER OKT. S	2 CONDUCTOR #14 THHN/TW/NV STRANDED	2 CONDUCTOR #14 THHN/TW/NV STRANDED	SPEAKER OKT. S
VISUAL OKT. V	2 CONDUCTOR #12 THHN/TW/NV STRANDED	2 CONDUCTOR #12 THHN/TW/NV STRANDED	VISUAL OKT. V
POWER OKT. P	2 CONDUCTOR #12 THHN/TW/NV STRANDED	2 CONDUCTOR #12 THHN/TW/NV STRANDED	POWER OKT. P

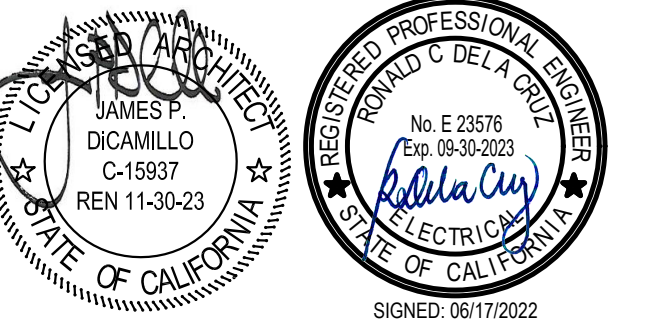
NOTE:
 ALL WIRE MODEL NUMBERS ARE WEST PENN. EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.

FIRE ALARM REQUIREMENTS

THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. THE SUBMITTAL SHALL CONTAIN THE FOLLOWING:

- SHOP DRAWINGS, COMPLETE 1/8" SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF BID SET FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBERS AND THE LOCATION OF ALL FIRE RATED WALLS.
- ELECTRICAL CONTRACTORS AND FIRE ALARM SYSTEM INSTALLERS NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER.
- LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURERS MODEL NUMBER(S) AND CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS.
- ORIGINAL COPIES OF MANUFACTURERS SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATED.
- VOLTAGE DROP CALCULATIONS - INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE:
 - POINT-TO-POINT OR OHMS LAW CALCULATIONS.
 - IDENTIFICATION OF ZONE USED IN CALCULATIONS.
 - VOLTAGE DROP PERCENT (NOT TO EXCEED MANUFACTURERS REQUIREMENTS).
 - NOTE: VOLTAGE DROP EXCEEDS 10% INDICATE MANUFACTURERS LISTED OPERATING RANGE(S) OR EQUIPMENT AND DEVICES.
 - NOTE CIRCUIT NUMBER FOR WORST CASE CALCULATION.
- BATTERY TYPES, AMPS HOURS AND LOAD CALCULATIONS - INCLUDE THE FOLLOWING INFORMATION:
 - NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS @ CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER - I.E.:
 - a. ZONE MODULES
 - b. DETECTORS
 - c. OTHER DEVICES (IDENTIFY)
 - ALARM CONDITION: 100% OF APPLICABLE DEVICES FOR 15 MINUTES @ CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER - I.E.:
 - a. ZONE MODULES
 - b. SIGNAL MODULES
 - c. DETECTORS
 - d. SIGNAL DEVICES
 - e. ANNUNCIATOR
 - f. OTHER DEVICES (IDENTIFY)
 - NORMAL OPERATION + ALARM OPERATION
 - a. TOTAL AMP HOURS REQUIRED
 - b. TOTAL AMP HOURS PROVIDED

HOLLINGWORTH ELEMENTARY SCHOOL
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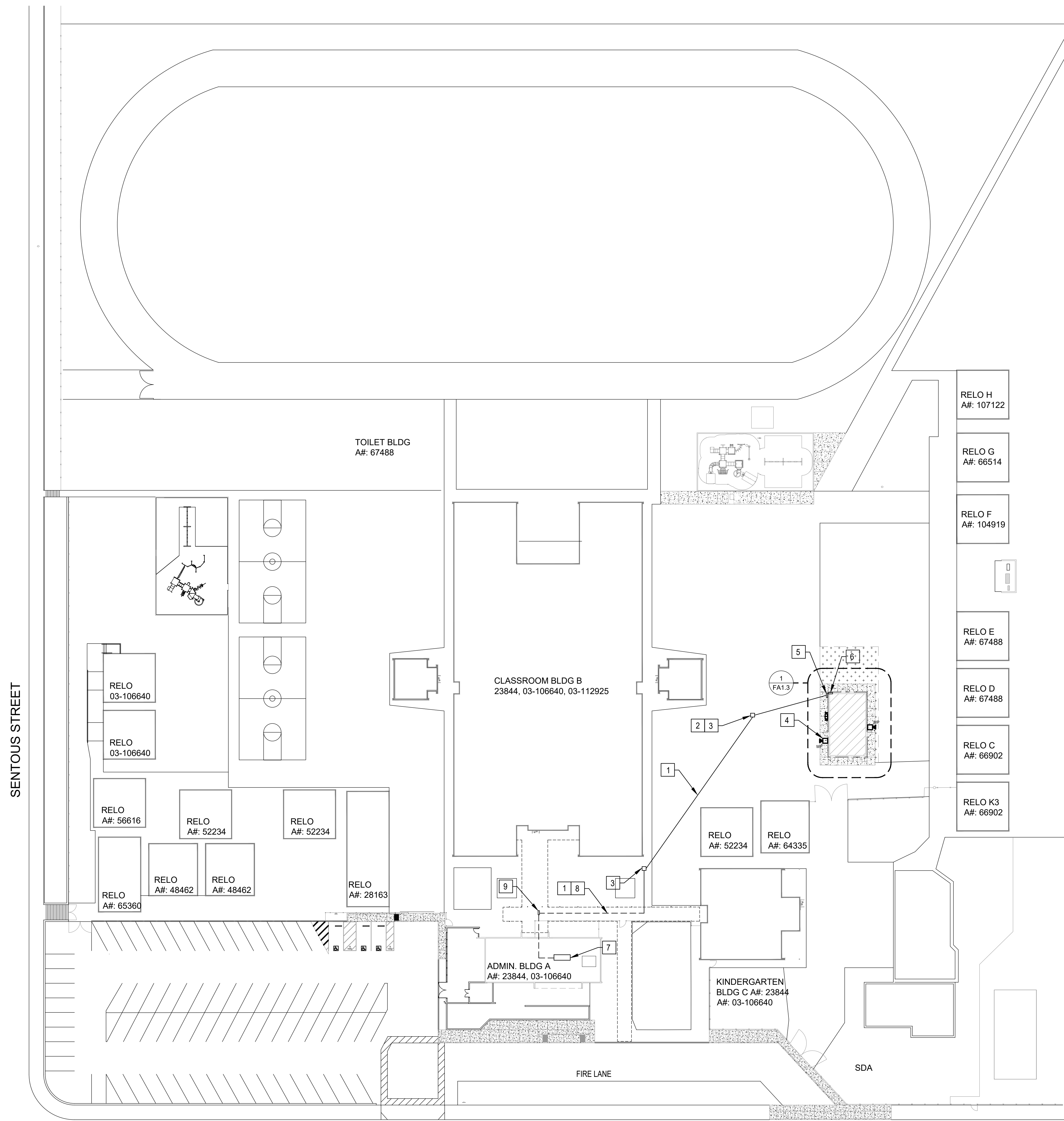
NO	DATE	BY	DESCRIPTION

REVISIONS

DRAWN: [] CHECKED: []
 DATE: 04/21/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400A0R

FIRE ALARM SYMBOLS & ABBREVIATIONS

DRAWING NUMBER: FA0.0




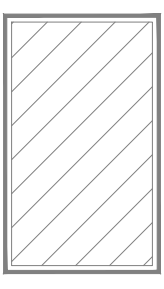
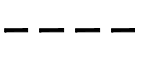
SENTOUS STREET

HOLLINGWORTH STREET

FIRE ALARM SITE PLAN

1"=30'-0" 1

LEGEND

-  EXISTING BUILDING - N.I.C.
-  (N)BUILDING
-  PATH OF TRAVEL (POT) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND ARE AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (1133B.8.2) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (1133B.8.6). ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE POT, AND THE POT COMPLIES WITH CBC 1133B.

GENERAL NOTES

1. ALL SPEAKER TAP SETTING SHALL BE SET AT 1/2 WATT FOR INTERIOR SPEAKER AND 2 WATT FOR EXTERIOR SPEAKERS UNLESS NOTED OTHERWISE (U.N.O.)
2. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
3. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC 907.2.11.8.
4. DEMOLISH AND REMOVE ALL THE EXISTING FIRE ALARM DEVICES WHETHER SHOWN ON THE PLAN OR NOT AND REPLACE WITH BLANK COVER PLATES, IF NECESSARY. DISCONNECT AND REMOVE ALL THE EXISTING CABLES BACK TO CONTROL PANEL.

KEY NOTES

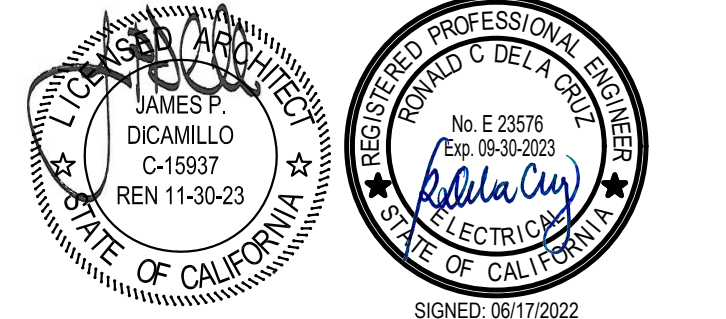
1. SAWCUT AND TRENCH EXISTING ASPHALT. REUSE EXISTING OTHERWISE PROVIDE (2) 2" UNDERGROUND CONDUIT (PVC, SCHEDULE 40, 24" BELOW GRADE). ONE CONDUIT IS FOR SPARE AND FIRE ALARM CABLE AS INDICATED. BACK FILL TO MATCH EXISTING SURFACES (TYP).
2. RUN CONDUIT IN DIRT/PLANNER AREA AS MUCH AS POSSIBLE.
3. REUSE EXISTING OTHERWISE PROVIDE NEW CONCRETE UNDERGROUND PULL BOXES AS 11" X 17" X 18" DEEP ON A 6" DEEP GRAVEL BASE.
4. PROVIDE FIRE ALARM WALL MOUNTED WEATHERPROOF SPEAKER DEVICE AS SHOWN (TYP).
5. PROVIDE NEMA 3R WEATHERPROOF PULLBOX 18"X18"X6" FOR FIRE-ALARM (TYP).
6. PROVIDE NEW FIRE ALARM POWER SUPPLY PANEL AS SHOWN.
7. PROVIDE NEW VOICE EVAC EXPANSION PANEL NEXT TO THE EXISTING FACP PANEL. FIELD VERIFY THE EXACT LOCATION.
8. PROVIDE OVERHEAD CONDUIT ABOVE CEILINGS SPACES.
9. PROVIDE NEMA 3R WEATHERPROOF PULLBOX 18"X18"X6" FOR FIRE-ALARM. CONDUITS FROM INTERIOR ABOVE CEILING SPACE TO NEW PULLBOX ON EXTERIOR ABOVE-CEILING LEVEL THEN TURN DOWN AND RUN UNDERGROUND CONDUITS TO UNDERGROUND PULL BOX AS SHOWN. FIELD VERIFY THE EXACT LOCATION.

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APP: 03-122206 INC:
REVIEWED FOR
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DATE: 06/29/2022



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HOLLINGWORTH ELEMENTARY SCHOOL
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ROWLAND UNIFIED SCHOOL DISTRICT
3003 E. HOLLINGWORTH ST., WEST COVINA, CA



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DATE: 04/21/2022 SCALE: AS NOTED
PROJECT NUMBER: W2105400AR

FIRE ALARM SITE PLAN

DRAWING NUMBER: **FA1.1**

GENERAL NOTES

1. ALL SPEAKER TAP SETTING SHALL BE SET AT 1/2 WATT FOR INTERIOR SPEAKER AND 2 WATT FOR EXTERIOR SPEAKERS UNLESS NOTED OTHERWISE (U.N.O.)
2. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
3. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC 907.2.11.8.
4. DEMOLISH AND REMOVE ALL THE EXISTING FIRE ALARM DEVICES WHETHER SHOWN ON THE PLAN OR NOT AND REPLACE WITH BLANK COVER PLATES, IF NECESSARY. DISCONNECT AND REMOVE ALL THE EXISTING CABLES BACK TO CONTROL PANEL. REUSE ALL THE EXISTING CONDUITS AS MUCH AS POSSIBLE (FIELD VERIFY LOCATIONS). REUSE EXISTING DEVICE LOCATION AS MUCH AS POSSIBLE.
5. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
6. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.

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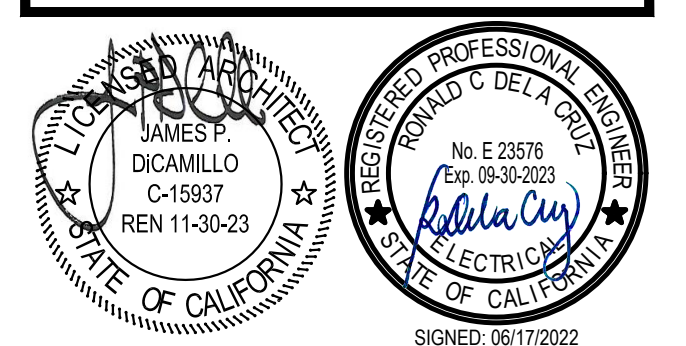
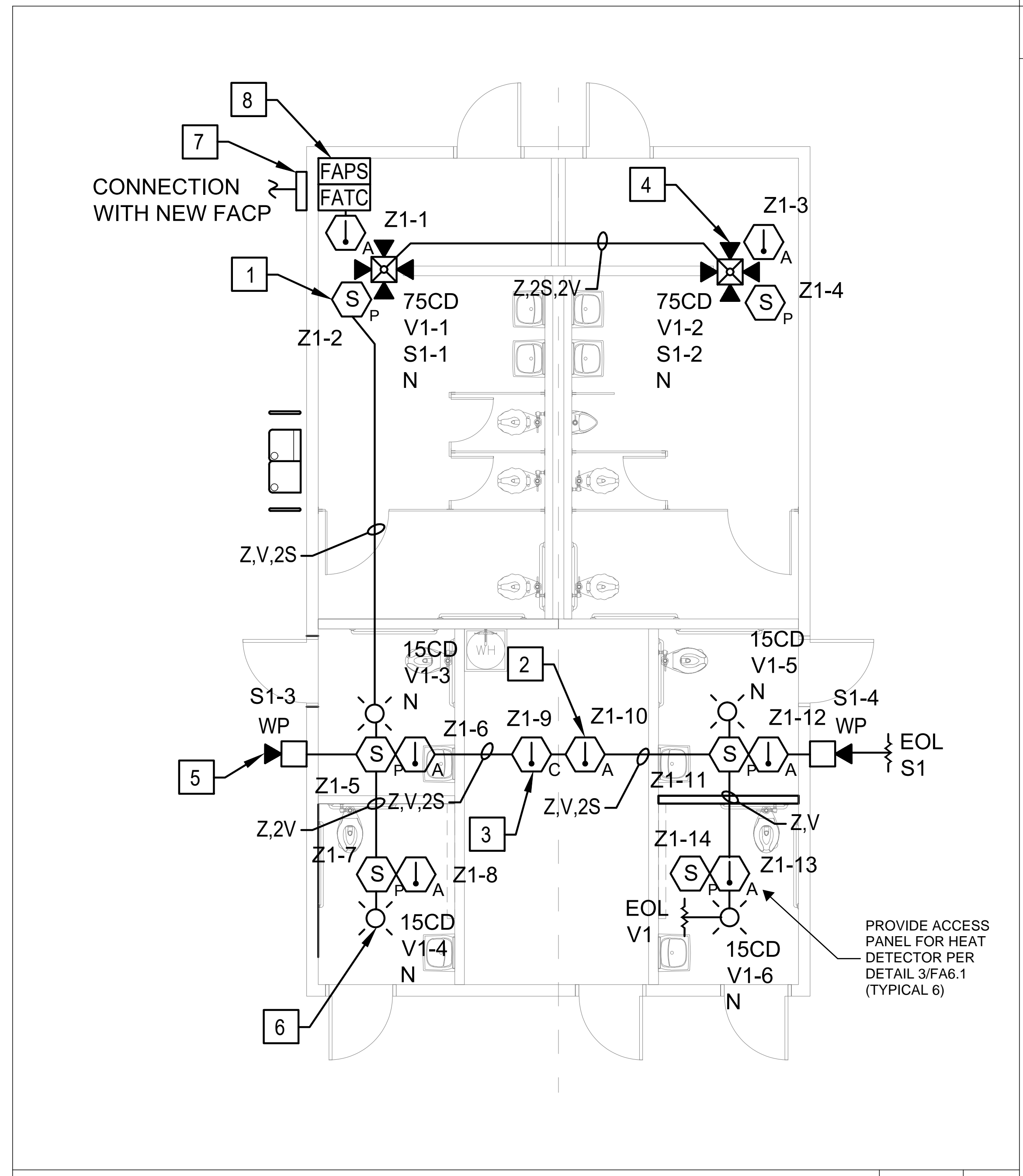


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KEY NOTES

1. PROVIDE FIRE ALARM ADDRESSABLE SMOKE DETECTOR AS SHOWN (TYP).
2. PROVIDE FIRE ALARM ADDRESSABLE ATTIC HEAT DETECTOR AS SHOWN (TYP).
3. PROVIDE FIRE ALARM ADDRESSABLE CEILING MOUNTED HEAT DETECTOR AS SHOWN.
4. PROVIDE FIRE ALARM CEILING MOUNTED SPEAKER STROBE AS SHOWN (TYP).
5. PROVIDE FIRE ALARM WALL MOUNTED WEATHERPROOF SPEAKER DEVICE AS SHOWN (TYP).
6. PROVIDE FIRE ALARM CEILING MOUNTED STROBE AS SHOWN (TYP).
7. PROVIDE NEMA 3R WEATHERPROOF PULLBOX 18"X18"X6" FOR FIRE-ALARM (TYP).
8. PROVIDE NEW FIRE ALARM POWER SUPPLY PANEL AND TERMINAL CABINET AS SHOWN.



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FIRE ALARM ENLARGED FLOOR PLAN

DRAWING NUMBER: **FA1.3**



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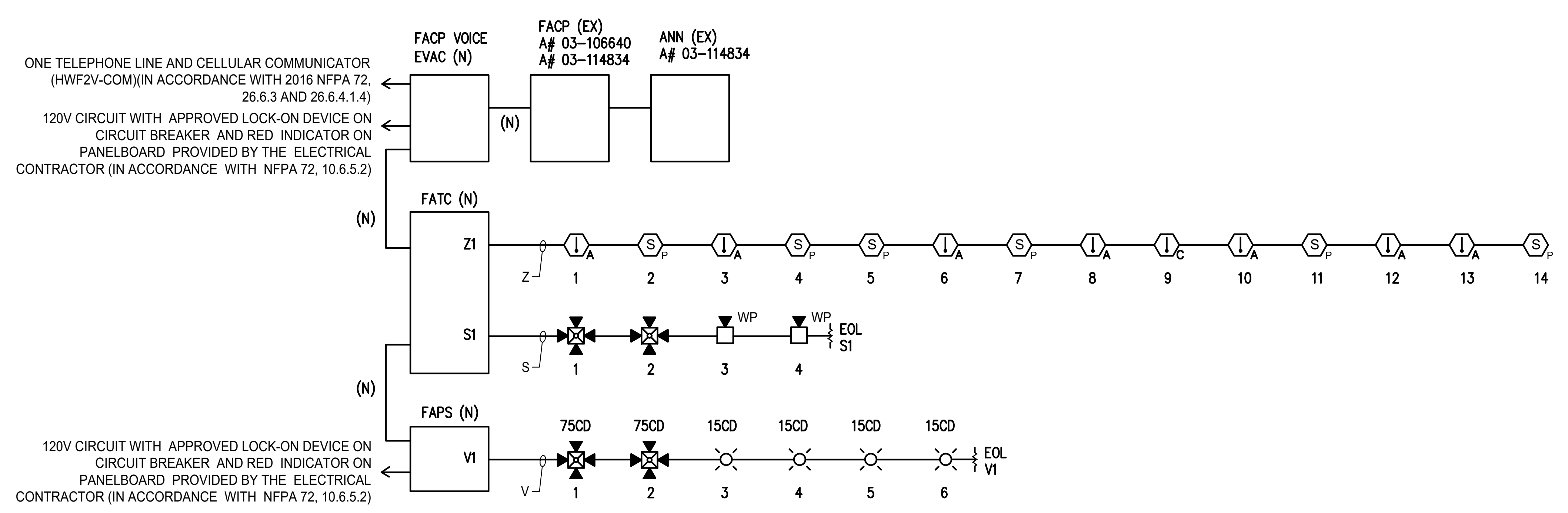
FACP BATTERY CALCULATION SHEET					
FACP - NFS2 3030 WITH VOICE EVAC LOCATION: ADMIN BLDG A					
QUANTITY	DESCRIPTION	UNIT	TOTAL	UNIT	TOTAL
		STANDBY	STANDBY	ALARM	ALARM
		CURRENT(A)	CURRENT(A)	CURRENT(A)	CURRENT(A)
1	MAIN BOARD	0.081000	0.081000	0.150000	0.150000
1	SUPPLEMENT BOARD	0.081000	0.081000	0.150000	0.150000
1	INTERFACE MAIN BOARD	0.050000	0.050000	0.091000	0.091000
1	INTERFACE SUPPLEMENT BOARD	0.050000	0.050000	0.091000	0.091000
1	120V POWER SUPPLY SUB-ASSEMBLY	0.050000	0.050000	0.050000	0.050000
1	DIGITAL COMMUNICATOR (DACT-E3)	0.018000	0.018000	0.018000	0.018000
1	AMPLIFIER KIT	0.103000	0.103000	0.140000	0.140000
1	FIRE PHONE CARD	0.053000	0.053000	0.075000	0.075000
1	AMPLIFIER	0.052000	0.052000	0.315000	0.315000
6	SMOKE DETECTOR	0.000200	0.001200	0.004500	0.027000
8	HEAT DETECTOR	0.000300	0.002400	0.006500	0.052000
SUB TOTAL			0.542		1.159
STANDBY CURRENT x 24 Hrs. (AH)			12.998 AH		
ALARM CURRENT x 15 MINUTES (AH)			0.290 AH		
TOTAL (AH)			13.288 AH		
25% DERATING			3.322 AH		
TOTAL DEMAND (AH)			16.610 AH		
BATTERY REQUIRED			25 AH		

BATTERY CAPACITY CALCULATION SHEET					
FAPS LOCATION: RESTROOM BLDG					
QUANTITY	Description	Unit	TOTAL	Unit	TOTAL
		Standby	Standby	Alarm	Alarm
		Current(A)	Current(A)	Current(A)	Current(A)
1	NAC TRIP	0.0020	0.0020	0.0020	0.0020
4	15cd ceiling strobes	0.0000	0.0000	0.0600	0.2400
2	75cd ceiling speaker/strobe	0.0000	0.0000	0.1420	0.2840
Sub Total			0.002		0.526
A - Battery Backup - Standby (Hour)			24		
B - Battery Backup (minutes)			15		
C - Allowable Error (%)			25		
D - Total Standby Backup (Amp-Hour)			0.048		
E - Total Alarm Backup (Amp-Hour)			0.132		
F - Allowable Error (C x (D + E))			0.045		
Total Amp-Hour Required (D + E + F)			0.224		
Battery Submitted			7 Amp-Hour		

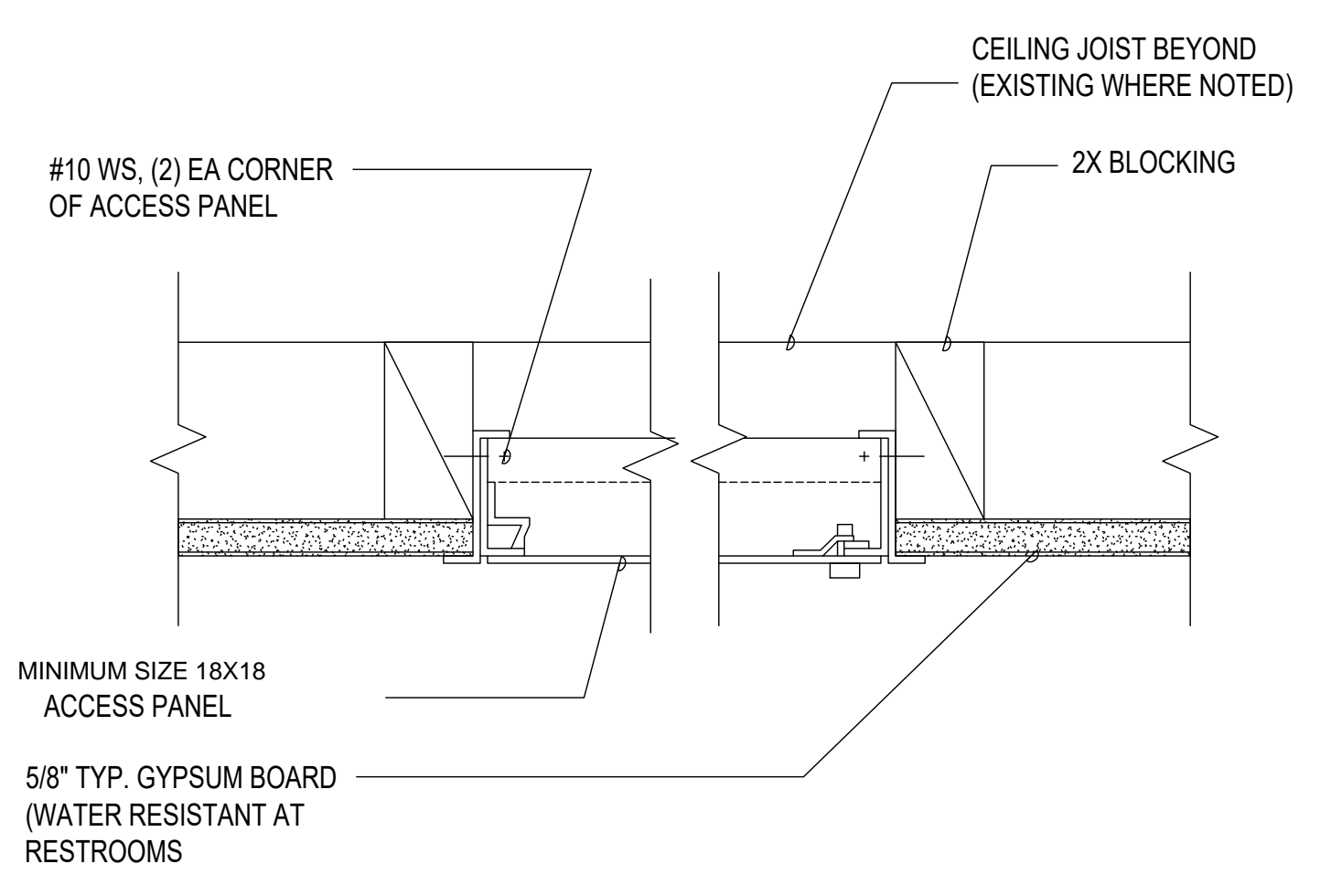
STROBES WORST CASE VOLTAGE DROP														
PANEL NAME	CIRCUIT NUMBER	CEILING STROBE				CEILING SPEAKER/STROBE				TOTAL CURRENT (AMPS)	TOTAL DISTANCE (FEET)	TOTAL VOLTAGE DROP (%)	TOTAL DEVICES	
		15cd	30cd	75cd	95cd	15cd	30cd	75cd	95cd					
FAPS	V1	4	0	0	0	0	0	0	2	0	0.524	100	0.72%	6
TOTAL		4	0	0	0	0	0	0	2	0				

SPEAKER CIRCUIT LOAD CALCULATION														
AMPLIFIER#	CIRCUIT LOCATION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14, 12)	CIRCUIT VOLTAGE (25 OR 70 VRMS)	APPLIANCES QUANTITIES / TAP VALUES				TOTAL CIRCUIT LOAD (WATT)	ESTIMATED CIRCUIT LENGTH (FEET)	MFG. REC. MAXIMUM LOSS IS: -0.5dB	ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
					SPEAKER TAPPED AT 0.25 WATTS	SPEAKER TAPPED AT 0.5 WATTS	SPEAKER TAPPED AT 1 WATTS	SPEAKER TAPPED AT 2 WATTS						
FACP	ADMIN, BLDGS A	S1	14 AWG	70	2			2	5.00	500	-0.02	10,500	2.58	
TOTAL									5.00					

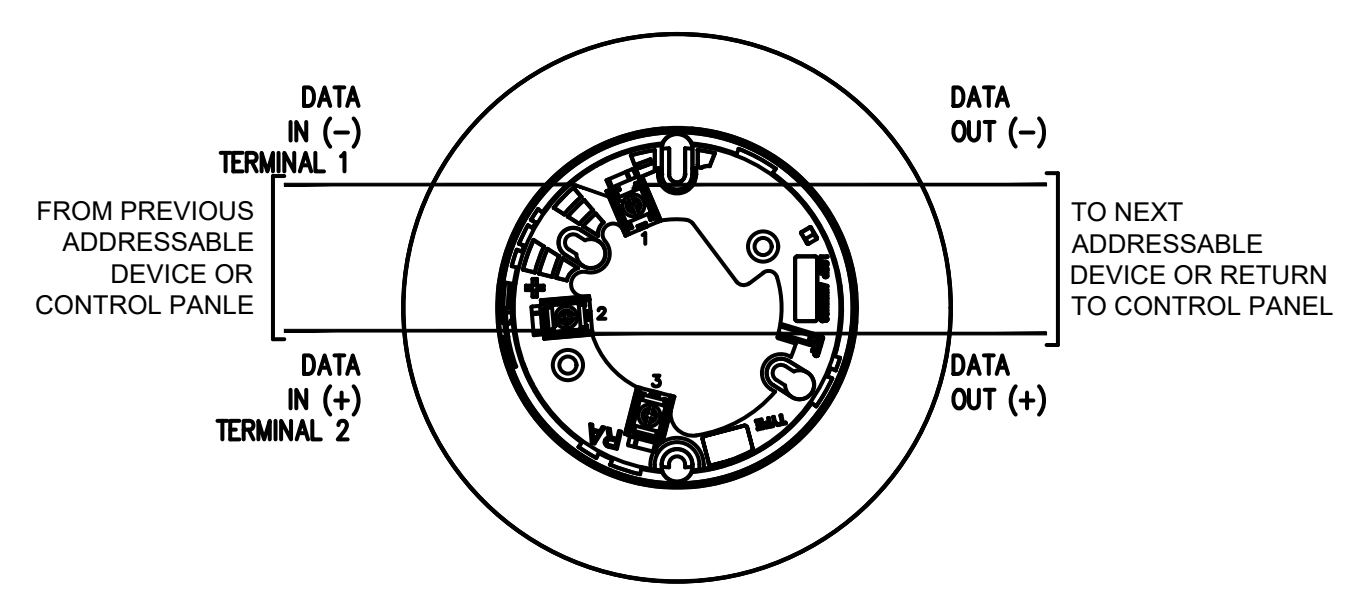
FIRE ALARM VOLTAGE DROP AND BATTERY CALCULATIONS NOT TO SCALE 3



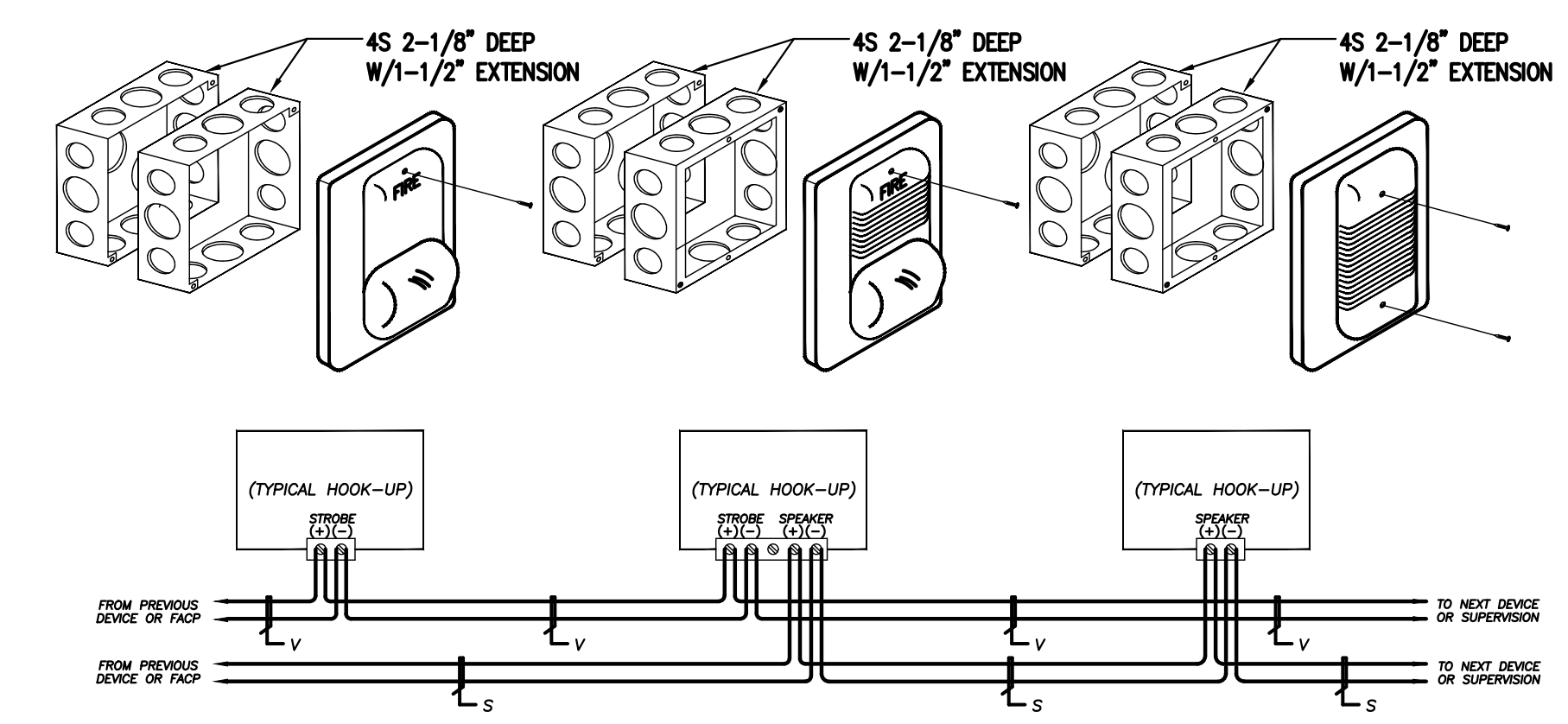
FIRE ALARM PARTIAL RISER DIAGRAM NOT TO SCALE 2



3 ACCESS PANEL DETAIL SCALE: NONE

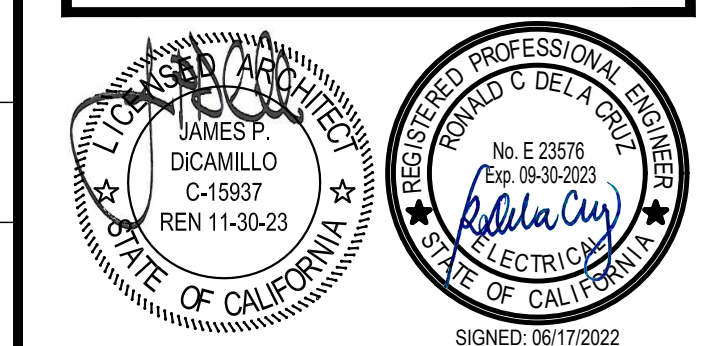


2 FIRE ALARM SMOKE/HEAT DETECTOR DETAIL SCALE: NONE



1 SPEAKER/STROBE DETAIL SCALE: NONE

FIRE ALARM DETAILS NOT TO SCALE 1



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FIRE ALARM RISER, CALC. & DETAILS

DRAWING NUMBER: **FA6.1**

INTERCOM SYMBOL LEGEND	
NOTE: EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.	
Ⓢ	SPEAKER, FLUSH MOUNTED IN CEILING. *12" INDICATES HIGH VOLUME SPEAKER. SUBSCRIPT "L" INDICATES CONNECTION TO LOCAL P.A. SYSTEM.
Ⓢ	FLUSH MOUNTED INTERIOR SPEAKER, WALL MOUNTED
Ⓢ	FLUSH MOUNTED EXTERIOR SPEAKER, WEATHER PROOF WALL MOUNTED

TECHNOLOGY OUTLET CONFIGURATION LEGEND:

- REFERENCE SPECIFICATIONS FOR PRODUCT NUMBERS AND INFORMATION FOR ALL MATERIALS REQUIRED TO PROVIDE OUTLETS AS SPECIFIED BELOW.
- TYPICAL OUTLET CONFIGURATION SHALL BE AS FOLLOWS (REFER OUTLET DIAGRAM FOR DETAILED FACEPLATE CONFIGURATION):
 - ▽ INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CABLING CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. ALL OUTLET CABLING IS TO BE DROPPED DOWN THE INSIDE OF THE WALL INDICATED. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" EMT CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. CONDUIT STUB-OUT SHALL HAVE A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.
 - DN# DESIGNATES NUMBER OF NEW DATA CIRCUITS THAT ARE TO BE INSTALLED AT FACEPLATE LOCATION. CABLING CONTRACTOR TO PROVIDE AND INSTALL CATEGORY 6A UTP CABLING FOR EACH CIRCUIT FROM THE DESIGNATED MDF OR IDF TO THE OUTLET LOCATION. PROVIDE AND INSTALL BLANKS FOR ALL UNUSED DATA PORTS.
 - Ⓢ^{AP} WIRELESS ACCESS POINTS OUTLET. CONTRACTOR SHALL PROVIDE AND INSTALL A 1-PORT STAINLESS STEEL FACEPLATE AND (1) CATEGORY 6A UTP CABLE FROM DESIGNATED MDF OR IDF AND TO THIS LOCATION WITH A 20' SERVICE LOOP AT THE OUTLET END OF THE CABLE. CONTRACTOR SHALL PROVIDE A SINGLE GANG BACK BOX. BACK BOX SHALL BE SECURELY MOUNTED TO BUILDING STRUCTURE, AT A SERVICEABLE HEIGHT, AND HAVE AN ENTRY POINT WITH A PROTECTIVE CAP TO PREVENT CABLE DAMAGE. CONTRACTOR TO LABEL CEILING GRID AT ALL "AP" LOCATIONS.

INTERCOM GENERAL NOTES:

- ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE PUBLIC ANNOUNCEMENT SYSTEM SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. PA CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT (TYPICAL)
- BUILDING WIDE P.A. SPEAKERS INSTALLED IN ALL OFFICES AND MEETING ROOMS SHALL HAVE A LOCAL, WALL MOUNTED VOLUME CONTROL MOUNTED AT +42" A.F.F., UNLESS OTHERWISE NOTED.
- BUILDING WIDE P.A. SPEAKERS SHALL BE INSTALLED IN ALL OPEN AREAS AT 30'-0" ON CENTER.
- BUILDING WIDE P.A. SPEAKERS SHALL BE INSTALLED IN CLASSROOMS, MEETING ROOMS, REST ROOMS, LABS, OFFICES, STAIRWELLS AND AS-WELL-AS ALL LOCATIONS DESIGNATED ON PLANS.
- ALL CLASSROOMS SHALL BE HOME RUN TO HEADEND EQUIPMENT ALLOWING ZONING OF SEPARATE CLASSROOMS.
- ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.
- EXTERIOR SPEAKERS SHALL NOT BE GROUPED WITH INTERIOR SPEAKERS.
- ALL SPEAKERS SHALL BE CONNECTED TO A STANDARD PUNCH DOWN BLOCK LOCATED NEAR HEADEND EQUIPMENT AND THEN CONNECTED TO HEADEND EQUIPMENT.
- ALL SPEAKERS SHOWN ARE CONSIDERED NEW UNLESS NOTED OTHERWISE.
- SYSTEM CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL INCOMING COMMUNICATION LINES BETWEEN BUILDINGS.
- ALL CLASSROOM AND LABS SHALL HAVE A CALL BUTTON CONNECTED TO THE PAGING SYSTEM AND ALLOW TWO WAY COMMUNICATIONS BETWEEN CLASSROOM AND THE FRONT OFFICE. ELECTRICAL CONTRACTOR TO PROVIDE BACK BOX AND CONDUIT STUBS OUTS AT +42" A.F.F. IN ALL CLASSROOM AND LABS.
- CONTRACTOR TO INSTALL ALL CORRIDOR CLOCKS AT 6" BELOW CEILING OR 10' A.F.F. WHICH EVER IS HIGHEST.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE PUBLIC ANNOUNCEMENT SYSTEM.
- ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
- ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.

TECHNOLOGY PLAN GENERAL NOTES

- ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AND VIDEO EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. TECHNICAL CABLING CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT (TYPICAL)
- CONTRACTOR SHALL COORDINATING WITH LEAF TECHNOLOGY DEPARTMENT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE PROPOSED LOCATIONS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY CONDUITS AND/OR BOXES REQUIRED FOR THE INSTALLATION OF CABLING, FACE PLATES, OR EQUIPMENT.
- SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY THE EIA AND THE NEC.
- ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
- ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
- ALL INDUSTRY STANDARD CATEGORY 6A CABLING PRACTICES MUST BE FOLLOWED FOR ALL DATA CABLING.
- ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
- ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
- ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER TS DRAWINGS AND/OR SPECIFICATIONS.
- CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS.
- ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
- NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.
- CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
- CONTRACTOR SHALL ROUTE ALL FIBER/VOICE/DATA AND CATV CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS ENTER INTO ALL ROOMS ABOVE THE MAIN DOORWAY.
- ALL CABLING SHALL BE PROPERLY SUPPORTED FROM ACCEPTABLE SUPPORT SYSTEMS AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. ALL CABLING SHALL BE ROUTED IN DEDICATED CABLE SUPPORT SYSTEM ONLY.
- CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CABLING AND COMPONENTS TO FURNISH TWO (2) ANALOG TELEPHONE CABLES TO EACH OF THE FOLLOWING SYSTEMS:
 - FIRE ALARM SYSTEM
 - SECURITY SYSTEM
 - EMERGENCY MANAGEMENT SYSTEM
 CONTRACTOR TO COORDINATE WITH SYSTEM INSTALLERS FOR EXACT LOCATIONS.
- CONTRACTOR TO PROVIDE AND INSTALL ONE (1) DATA CIRCUIT TO THE BUILDING'S PUBLIC ANNOUNCEMENT SYSTEM. CONTRACTOR TO COORDINATE WITH SYSTEM INSTALLER FOR EXACT LOCATIONS.
- ALL TECHNOLOGY CABLING SHALL BE INSTALLED NEW AND DROPPED DOWN INSIDE ALL WALLS FOR A FLUSH MOUNT SOLUTION. CONTRACTOR TO PROVIDE AND INSTALL A MINIMUM OF ONE (1) DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT STUBBED OUT TO THE NEAREST PLENUM CEILING AT ALL LOCATIONS.
- ALL AUDIOVISUAL (PS TO LCD/CMP) CABLING SHALL PLENUM RATED AND INSTALLED DOWN THE INSIDE OF THE WALLS FOR A FLUSH MOUNTED SOLUTION PROJECT ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A MINIMUM OF ONE (1) RACO 200 BACK BOX WITH (1) 2" CONDUITS STUBBED OUT INTO THE PLENUM CEILING AT ALL "PS" OUTLET LOCATIONS.
- ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
- ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

DRAWING INDEX

T0.0 - TECHNOLOGY SYMBOLS AND ABBREVIATIONS

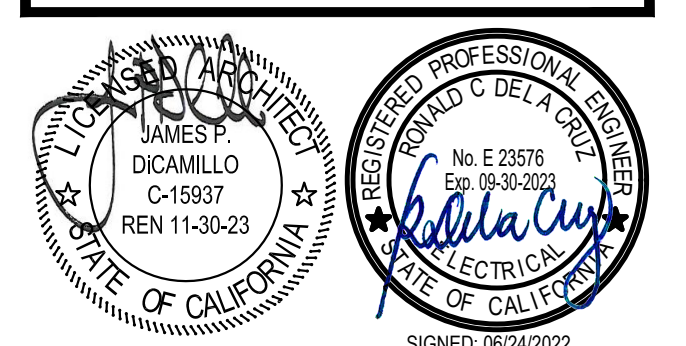
T1.1 - TECHNOLOGY SITE PLAN

T1.2 - TECHNOLOGY ENLARGED FLOOR PLAN

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122206 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/29/2022

PBK
 RANCHO CUCAMONGA
 8163 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-987-0909 P

HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
 ROWLAND UNIFIED SCHOOL DISTRICT
 3003 E. HOLLINGWORTH ST., WEST COVINA, CA



CONSULTANT
LEAF ENGINEERS
 8163 Rochester Ave., Suite 100
 Rancho Cucamonga, CA 91730
 909-390-3111
 leafengineers.com

NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: _____ CHECKED: _____
 DATE: 04/21/2022 SCALE: AS NOTED
 PROJECT NUMBER: W2105400AR

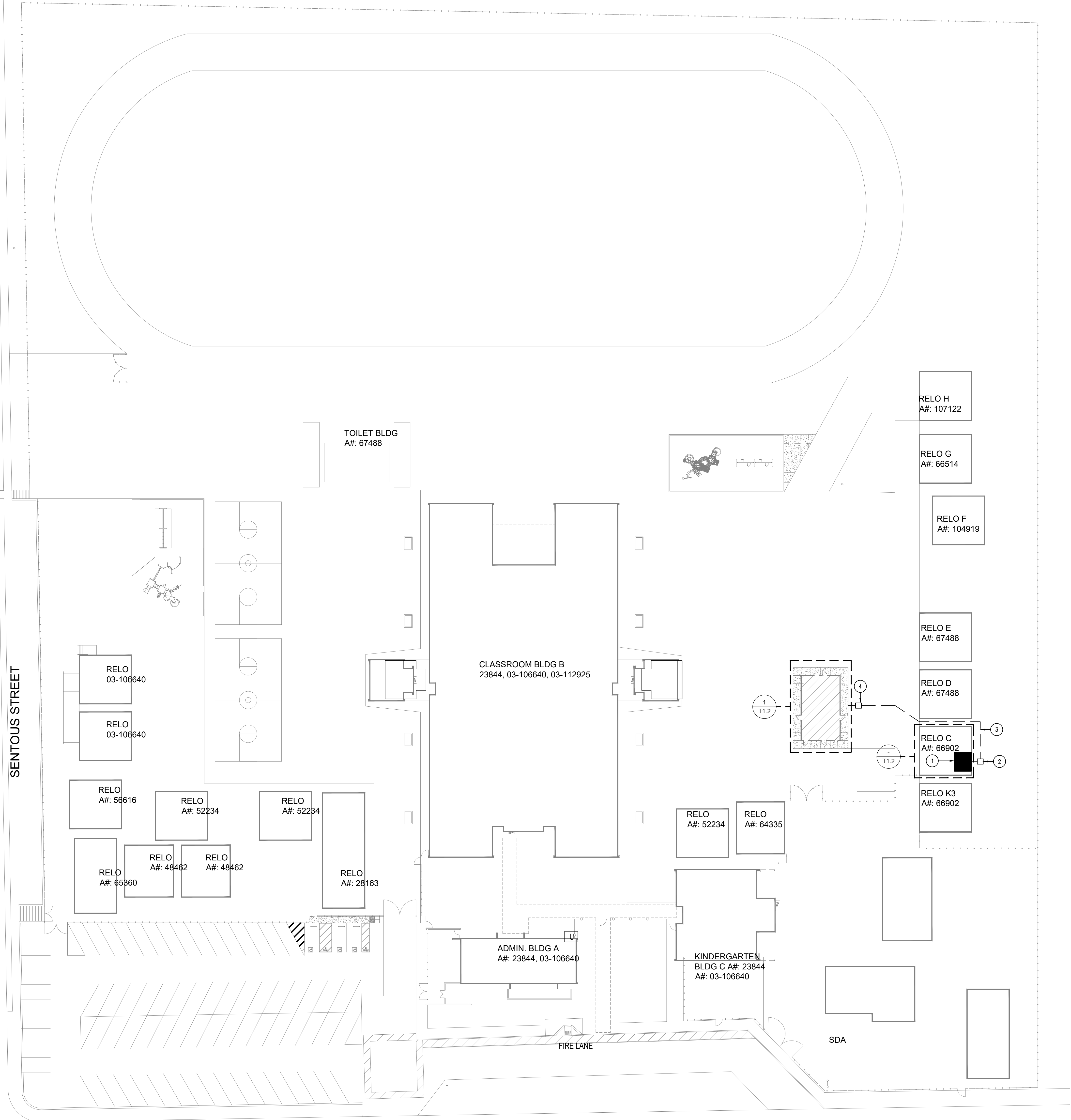
TECHNOLOGY SYMBOLS & ABBREVIATIONS

DRAWING NUMBER: **T0.0**



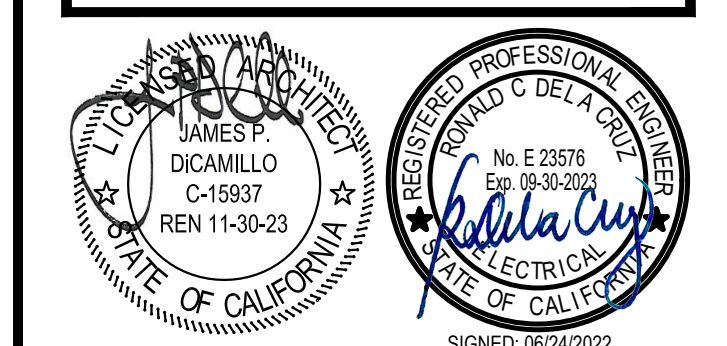
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NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
 ROWLAND UNIFIED SCHOOL DISTRICT
 3003 E. HOLLINGWORTH ST, WEST COVINA, CA



KEY NOTES

- ① INDICATES APPROXIMATE LOCATION OF EXISTING IDF. CONTRACTOR TO ROUTE TWO (2) 2" CONDUITS FROM THIS LOCATION TO THE NEW RESTROOMS BUILDING. CONDUITS ARE TO STUB UP ABOVE CEILING AND BE RESERVED FOR LOW VOLTAGE DATA CABLES.
- ② INDICATES APPROXIMATE LOCATION OF NEW PULL BOX WITH A MINIMUM SIZE OF 36" x 36" x 36". INSTALL FLUSH WITH GRADE AND PROVIDE PULL BOX AT EVERY 250' OR CHANGES OF DIRECTION MORE THAN 180 DEGREES. PROVIDE AND INSTALL WIDE SWEEPING TURNS ON ALL CONDUIT ENTERING AND EXITING PULL BOX AS WELL AS ALL CONDUIT TURNS ALONG ROUTE. TYPICAL FOR ALL LOCATIONS SHOWN.
- ③ INDICATES APPROXIMATE PATHWAY OF TWO (2) 2" CONDUITS. CONTRACTOR TO FIELD VERIFY FINAL PATHWAY.
- ④ INDICATES APPROXIMATE LOCATION OF NEW PULL BOX WITH A MINIMUM SIZE OF 36"X36"X36". THIS PULLBOX WILL BE SHARED WITH ELECTRICAL. CONTRACTOR TO PROVIDE DIVIDER AND ALL NECESSARY MATERIAL TO ENSURE ELECTRICAL AND LOW VOLTAGE CAN BE RUN IN THE SAME PULLBOX. PULLBOX TO BE INSTALLED FLUSH WITH GRADE.



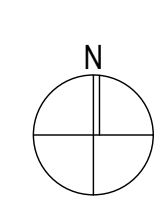
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NO	DATE	BY	DESCRIPTION
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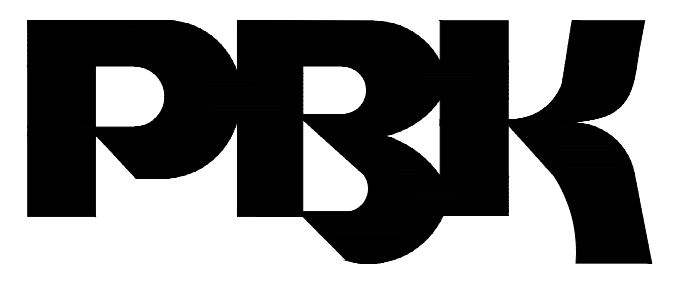
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DATE: 04/21/2022	SCALE: AS NOTED
PROJECT NUMBER: W2105400AR	

TECHNOLOGY SITE PLAN

DRAWING NUMBER: **T1.1**

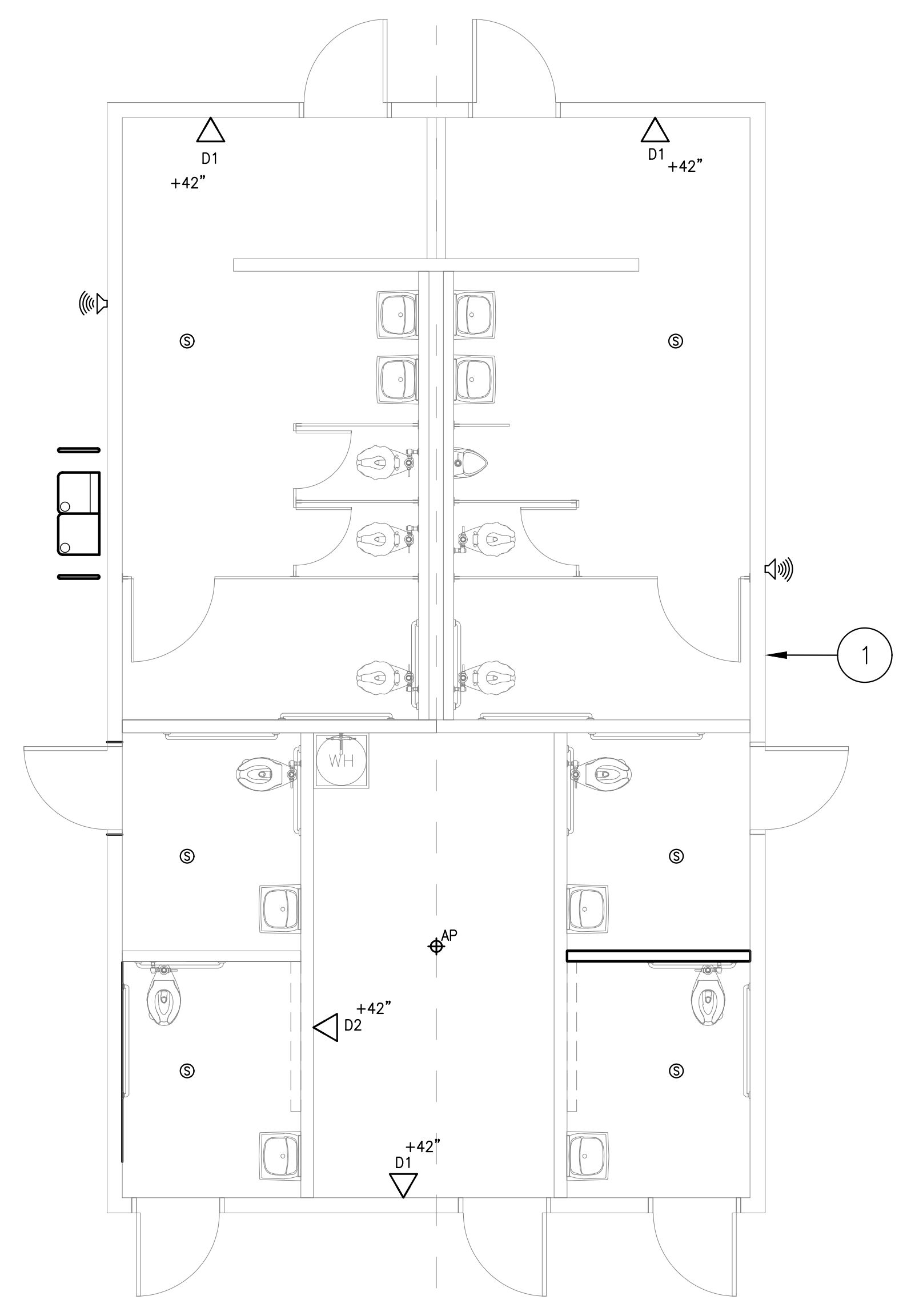


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HOLLINGWORTH ELEMENTARY SCHOOL
NEW MODULAR RESTROOM BUILDING AND PLAY EQUIPMENT
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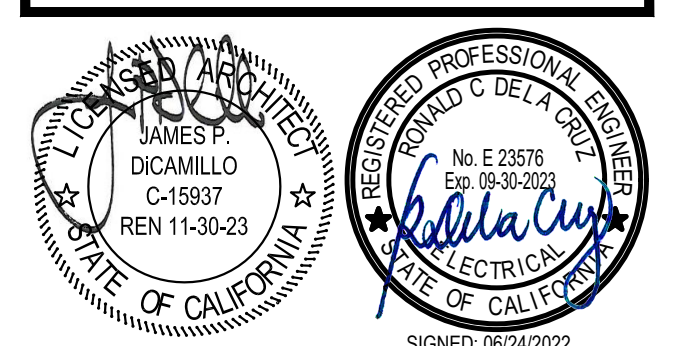


KEY NOTES

- ① INDICATES APPROXIMATE LOCATION OF PENETRATION INTO BUILDING'S CEILING SPACE. CONTRACTOR TO PROVIDE FIVE (5) ADDITIONAL CATEGORY 6A DATA CABLES THAT ARE TO BE RESERVED FOR FUTURE OWNER PROVIDED CAMERAS. DATA CABLES ARE TO HAVE 30' OF SLACK AND A 10' SERVICE LOOP. COIL CABLES CAREFULLY AND HANG OUT OF HARMS WAY FOR FUTURE USE.

GENERAL NOTES

- 1. ALL DEVICES SHOWN ARE NEW. CONTRACTOR TO ROUTE NEW STRUCTURED CABLING TO EXISTING IDF. REFER TO SITE PLAN FOR ADDITIONAL INFORMATION.
- 2. CONTRACTOR TO CONNECT NEW INTERCOM SPEAKERS TO EXISTING INTERCOM SYSTEM IN MAIN BUILDING. SPEAKERS ARE TO MATCH EXISTING SYSTEM



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DRAWN:	CHECKED:
DATE: 04/21/2022	SCALE: AS NOTED
PROJECT NUMBER: W2105400AR	

TECHNOLOGY ENLARGED FLOOR PLAN

DRAWING NUMBER: T1.2

AMS

American Modular Systems

24' x 40' THRU 120' x 40'

HIGH PITCH BUILDING (LOW SEISMIC)



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122206 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/29/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-14854 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/09/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:

TITLE SHEET

SHEET NUMBER:
TS

APPLICABLE CODES

- PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019**
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) - (PART 1, TITLE 24, CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2018 INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2017 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS
 - 2019 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS
 - 2019 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS
 - 2019 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)
 - 2019 CALIFORNIA FIRE CODE (FCF) - (PART 9, TITLE 24, CCR) BASED ON THE 2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS
 - 2019 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
 - 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
- PARTIAL LIST OF APPLICABLE STANDARDS**
- | | | |
|-----------|---|--------------|
| NFPA 13 | AUTOMATIC SPRINKLER SYSTEM | 2016 EDITION |
| NFPA 14 | STANDPIPE AND HOSE SYSTEMS | 2016 EDITION |
| NFPA 17 | DRY CHEMICAL EXTINGUISHING SYSTEMS | 2017 EDITION |
| NFPA 17A | WET CHEMICAL EXTINGUISHING SYSTEMS | 2017 EDITION |
| NFPA 20 | STATIONARY PUMPS | 2016 EDITION |
| NFPA 24 | PRIVATE FIRE MAINS | 2016 EDITION |
| NFPA 72 | NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) | 2016 EDITION |
| NFPA 253 | (NOTE: SEE IUL, STANDARD 1971 FOR "VISUAL DEVICES") | 2015 EDITION |
| NFPA 2001 | CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS | 2015 EDITION |
| NFPA 2001 | CLEAN AGENT FIRE EXTINGUISHING SYSTEMS | 2015 EDITION |

GENERAL NOTES

- SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILITY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
- PC BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B".
- PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
- PC BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. PC IS NOT APPROVED FOR WUI.
- AUTOMATIC SPRINKLER SYSTEMS MIGHT BE REQUIRED FOR SITE SPECIFIC PROJECTS. OPTIONAL AUTOMATIC FIRE SPRINKLER DESIGNS ARE INCLUDED IN THIS PC APPROVAL. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)
- FIRE SERVICE UNDERGROUND SHALL BE REVIEWED AS A SITE SPECIFIC APPLICATION. WATER SUPPLY SHALL BE DESIGNED TO MEET THE PC SPRINKLER DEMAND REQUIREMENTS.
- PROVIDE A SITE SPECIFIC FIRE FLOW LETTER OF CERTIFICATION FROM AN APPROVED WATER PURVEYOR OR LOCAL FIRE AUTHORITY.
- THIS PC PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES.
- A SEPARATE NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB OR STOCKPILE) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS. ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. THE PC ROOF FRAMING IS DESIGNED FOR SOLAR PANELS TO BE INSTALLED FLAT ON THE ROOF. (NOTE: SEE BUILDING DATA THIS SHEET FOR SOLAR PANEL SYSTEM WEIGHT & WIND LOAD INCLUDED IN BUILDING DESIGN FOR ROOF-TOP.) SUBMITTALS OF ROOF-TOP SOLAR SYSTEM SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.
- IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND SITE SPECIFIC PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
- THIS PC BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THAT THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC DRAWINGS ARE STILL APPLICABLE, UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD ELEVATION. A VALIDATION LETTER FROM THE GEOTECHNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD-BEARING VALUES PER CBC SECTION 1809A.2 ARE USED. PROJECT SHALL BE EXEMPT FROM THE VALIDATION LETTER FOR PROJECTS LOCATED IN ZONE D (UNDEFINED) IF THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE. LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS.
- THE PLACEMENT OF THE PC BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE 'FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
- PC BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB L_{eq}-1hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
- THIS PC BUILDING IS NOT DESIGNED FOR SNOW LOADS.
- THIS PC BUILDING IS NOT DESIGNED FOR ICE LOADS.
- BUILDING SHALL BE MANUFACTURED IN COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
- SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SQUARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.

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BUILDING DATA

OCCUPANCY	E OR B (CLASSROOM USE FOR COLLEGE)
TYPE OF CONSTRUCTION	V-B (CATEGORY I & II)
WIND LOAD ASCE 7-16 SECTION 28.5.3 SIMPLIFIED PROCEDURE	V = 99 MPH BASIC WIND SPEED EXPOSURE = C INTERNAL PRESSURE COEFF. G _{Cp1} = ±0.18 ROOF ANGLE = 9.5 DEGREES
ICE LOAD	NOT CONSIDERED (SEE GENERAL NOTE #15 THIS SHEET)
SNOW LOAD	NOT CONSIDERED (SEE GENERAL NOTE #14 THIS SHEET)
ROOF LIVE LOAD (MAX PSF)	20 (REDUCIBLE)
FLOOR LIVE LOAD (PSF)	<input type="checkbox"/> 50 <input checked="" type="checkbox"/> 50+15 <input type="checkbox"/> 100 <input type="checkbox"/> 150 (NON-STORAGE)
DESIGN DEAD LOADS (MAX PSF)	21.0 RF - 12.0 WD FLR - 48.0 CONC. FLR - 18.0 EXT WALLS
FIRE SPRINKLER SYSTEM DESIGN WT.	1.5 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTES #5 - #7 THIS SHEET)
ROOF SOLAR PANEL SYSTEM DESIGN WT.	3.0 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTE #9 THIS SHEET)
ALLOWABLE SOIL PRESSURE (PSF)	1500 (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATE BASIC LOAD COMBINATIONS PER CBC 1605A.3.2)
FLOOD HAZARD AREA	NO (SEE GENERAL NOTE #11 THIS SHEET)
RAIN INTENSITY (IN/HR)	3" MAX.
BUILDING AREA (SQ. FT.)	960 MIN. THRU 4800 MAX.
CLIMATE ZONE	<input type="checkbox"/> 1-2 <input checked="" type="checkbox"/> 3-14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 (REFER TO M1.7 FOR REQUIREMENTS)
MODULES	LIGHT MODULAR STEEL MOMENT-FRAMES PER CBC SECTION 2212A
SYSTEM	12'x40' MODULES (2 MODULES MINIMUM)
FOUNDATION TYPE	CONCRETE

SITE-SPECIFIC OPTIONS

FLOOR DECK	<input type="checkbox"/> 1/8" PLYWOOD SHTG. <input type="checkbox"/> BH-36 DECK 1/2"x18 GA. <input checked="" type="checkbox"/> 3WXH DECK 3"x18 GA.
WALL STUDS	<input checked="" type="checkbox"/> WOOD <input type="checkbox"/> LIGHT-GAUGE STEEL
EXTERIOR WALL FINISH	<input type="checkbox"/> STUCCO <input checked="" type="checkbox"/> SYNTHETIC STUCCO <input type="checkbox"/> LAP SIDING
HVAC	<input type="checkbox"/> INTERIOR FLOOR MOUNTED <input type="checkbox"/> EXTERIOR WALL MOUNTED <input type="checkbox"/> SPLIT SYSTEM <input type="checkbox"/> ROOF MOUNTED
ROOFING	<input checked="" type="checkbox"/> 3" x 22 GA. STANDING SEAM <input type="checkbox"/> BUILT-UP ROOFING <input type="checkbox"/> SINGLE-PLY <input type="checkbox"/>
ROOF PITCH	DUAL PITCH
ROOF DIAPHRAGM	1/2" PLYWOOD SHTG.
FRONT OVERHANG	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES - LENGTH: 4'-0" <input type="checkbox"/> ENCLOSED
REAR OVERHANG	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES - LENGTH: 4'-0" <input type="checkbox"/> ENCLOSED
SOLATUBE ON ROOF	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
FIRE SPRINKLERS	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (SEE GENERAL NOTES #5 - #7 THIS SHEET)
SOLAR PANELS	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (SEE GENERAL NOTE #9 THIS SHEET)
OPTIONAL SIDE WALL CANOPY	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (SEE SHEET S5.4A)
LIQUEFIABLE SOILS	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (SEE GENERAL NOTE #10 THIS SHEET)
MAPPED GEOHAZARD ZONE	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (AS DEFINED BY PC-6 SECTION 1.8)
GEOHAZARD REPORT	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
IF YES	GEOTECHNICAL FIRM: REPORT #: REPORT DATE:
GEOTECHNICAL REPORT	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES * REQUIRED IF BUILDING AREA > 4,000 SF
IF YES	GEOTECHNICAL FIRM: REPORT #: REPORT DATE: DEEPER FOOTINGS REQUIRED? <input type="checkbox"/> NO <input type="checkbox"/> YES - REQUIRED DEPTH: WIDER FOOTINGS REQUIRED? <input type="checkbox"/> NO <input type="checkbox"/> YES - REQUIRED WIDTH:
BELOW GRADE CONCRETE MIX DESIGN	<input checked="" type="checkbox"/> DEFAULT CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A. <input type="checkbox"/> OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.

SITE SPECIFIC WIND VALUES

SITE SPECIFIC BASIC WIND SPEED = 95 MPH WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC S_s = 1.784 SITE SPECIFIC S₁ = 0.63 SITE CLASS = D
(NOTE: SITE SHALL BE SITE CLASS "D" IF NO SOILS REPORT UNLESS THERE IS EVIDENCE OF CLASS "E" OR "F" SOILS PRESENT.)

PC BUILDING SEISMIC DESIGN CRITERIA

I_g = 1.0 T = 0.231s R = 3.5 (OMF) RISK CATEGORY II
Ω₀ = 3.0 C_d = 3.0 ρ = 1.0 SEISMIC DESIGN CATEGORY: D (S₁ < 0.75)
E (S₁ ≥ 0.75)
MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.)
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

NOTE:
PER CBC 1613A.2.3,
S_{DS} (S_{DS}) SHALL NOT BE
TAKEN AS LESS THAN S_{D1} (S_{D1})
NOTE:
COMPONENTS AND CLADDING DESIGNED FOR:
S_{DS} = 1.56

NO SOILS REPORT - ASSUMED SITE CLASS "D"
S_s = 1.952 MAX (SITE) F_a = 1.2 S_{DS} = 1.56 (SITE)
1.366 (DESIGN)* 1.09 (DESIGN)*
S₁ = 0.966 MAX (SITE & DESIGN) F_v = 1.7 S_{D1} = 1.09 MAX (SITE & DESIGN) C_s = 0.312 W (DESIGN)*

WITH SOILS REPORT - SITE CLASS "A", "B" OR "D"
NOTE: PER EXCEPTION 2 OF ASCE 7-16 SECTION 11.4.8, GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED FOR SITE CLASS "D".
S_s = 2.343 MAX (SITE) F_a = 1.0 S_{DS} = 1.56 (SITE)
1.640 (DESIGN)* 1.09 (DESIGN)*
S₁ = 1.173 MAX (SITE & DESIGN) F_v = 1.7 S_{D1} = 1.09 MAX (SITE & DESIGN) C_s = 0.312 W (DESIGN)*

WITH SOILS REPORT - SITE CLASS "C"
S_s = 1.952 MAX (SITE) F_a = 1.2 S_{DS} = 1.56 (SITE)
1.366 (DESIGN)* 1.09 (DESIGN)*
S₁ = 1.173 MAX (SITE & DESIGN) F_v = 1.4 S_{D1} = 1.09 MAX (SITE & DESIGN) C_s = 0.312 W (DESIGN)*

WITH SOILS REPORT - SITE CLASS "E"
NOTE: PER EXCEPTION 1 & 3 OF ASCE 7-16 SECTION 11.4.8, GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED.
S_s = 1.367 MAX (SITE) F_a = 1.2 S_{DS} = 1.09 (SITE)
1.367 (DESIGN) 1.09 (DESIGN)
S₁ = 0.821 MAX (SITE & DESIGN) F_v = 2.0 S_{D1} = 1.09 MAX (SITE & DESIGN) C_s = 0.312 W (DESIGN)

WITH SOILS REPORT - SITE CLASS "F"
PER ASCE 7-16 SECTION 11.4.8, A SITE RESPONSE ANALYSIS IN ACCORDANCE WITH SECTION 21.1 IS REQUIRED UNLESS EXEMPTED BY SECTION 20.3.1. SEE GENERAL NOTE #10.
SITE SPECIFIC S_{DS} = _____ S_{DS} = S_{D1} = 1.09 MAX C_s = 0.312 W (DESIGN)
SITE SPECIFIC S_{D1} = _____

*PER ASCE 7-16, SECTION 12.8.1.3:
THE VALUE OF C_s AND E_v ARE PERMITTED TO BE CALCULATED USING A VALUE OF S_{DS} EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S_{DS} AS DEFINED IN SECTION 11.4.5, PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:
1. STRUCTURE DOES NOT HAVE IRREGULARITIES;
2. STRUCTURE DOES NOT EXCEED FIVE (5) STORIES ABOVE THE LOWER OF THE BASE OR GRADE PLANE;
3. STRUCTURE HAS A FUNDAMENTAL PERIOD, T, THAT DOES NOT EXCEED 0.5 SECONDS;
4. STRUCTURE MEETS REQUIREMENTS FOR REDUNDANCY FACTOR, ρ, TO BE TAKEN AS 1.0;
5. SITE SOIL PROPERTIES ARE NOT CLASSIFIED AS SITE CLASS "E" OR "F";
6. STRUCTURE IS CLASSIFIED AS RISK CATEGORY II.

SEE SHEET TS2 FOR SHEET INDEX

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Additional Information for PC designs only, not to be added to DSA-103:			
	STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING	RELOCATION OF CERTIFIED RELOCATABLE BUILDING
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-Story	Class 4 for Single Story Class 2 for Two-Story
Selection of the Project Inspector and Testing Agency	by the Owner and approved by DSA, A/E of Record and Structural Engineer	by the School District and approved by DSA, A/E responsible for in-plant construction observation.	by the Owner and approved by DSA, A/E of Record and Structural Engineer
Cost of the Project Inspector (Title 24, Part 1, Section 4-333(b)) and Testing/Special Agency (CAC, Section 4-335(b))	by the Owner	by the School District	

HOLLO-BOLT MANUFACTURER'S INSPECTION PROCEDURES

PERIODIC SPECIAL INSPECTION REQUIREMENTS

TO VERIFY CORRECT INSTALLATION INCLUDING USE IN SEISMIC OR WIND LOADING APPLICATIONS IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE SECTIONS 1705A.1, 1705A.2, AND 1704A.3 PLEASE REFER TO THE FOLLOWING INSTRUCTIONS.

A. INSPECTION PRIOR TO INSTALLATION

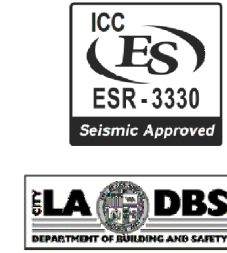
- ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
- ENSURE THAT THE HOLES ARE ALIGNED AND THAT THE HOLES HAVE THE CORRECT DIAMETER AND SPACING FOR THE CHOSEN HOLLO-BOLT.
- THE HOLES MUST BE STANDARD DIAMETER HOLES CONFORMING TO AISC 360 WHERE THE HOLE DIAMETER MUST BE NO GREATER THAN THE SLEEVE OUTER DIAMETER +1/16".
- BURRS IN THE HOLES MUST BE REMOVED BEFORE INSERTION OF THE HOLLO-BOLT.

B. INSPECTION DURING INSTALLATION

- ENSURE THAT THE HOLLO-BOLTS ARE INSTALLED AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
 - ENSURE THAT THE TORQUE WRENCH(S) HAS A CURRENT VALID CALIBRATION CERTIFICATE AND IS CALIBRATED ON REGULAR BASIS.
 - IF USING AIR POWERED WRENCHES TO TIGHTEN THE HOLLO-BOLT, CHECK THAT THE WRENCH IS SET CORRECTLY TO AVOID OVERTIGHTENING. THE FINAL TORQUE MUST BE CHECKED WITH A CALIBRATED TORQUE WRENCH.
 - IF AFTER TIGHTENING THERE IS A GAP EVIDENT BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT THIS MAY INDICATE INCORRECT INSTALLATION. REMOVE AND DISCARD THE HOLLO-BOLT, REALIGN THE CONNECTING STEELWORK AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
 - IF AFTER TIGHTENING THE BOLT HEAD CONTINUES TO TURN THIS MAY BE AN INDICATION OF OVER TIGHTENING, OR IF USING A STAINLESS STEEL HOLLO-BOLT THIS MAY BE DUE TO GALLING*. REMOVE AND DISCARD THE HOLLO-BOLT AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
- * 'GALLING' IS A TERM USED WHEN TWO SURFACES SEIZE UP AS A RESULT OF COLD WELDING AND IS COMMON WHEN TIGHTENING STAINLESS STEEL BOLTS.

C. INSPECTION AFTER INSTALLATION

- ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
- ENSURE THAT THERE ARE NO GAPS BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT.
- CHECK THE TIGHTENING TORQUE OF BETWEEN 5-10% OF THE INSTALLED HOLLO-BOLTS CHOSEN AT RANDOM USING A CALIBRATED TORQUE WRENCH.



FOOTNOTES

- WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1 AND DSA IR 17-13)
 - CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED IF THE CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE "NATIONAL READY MIXED CONCRETE ASSOCIATION" OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
 - IF THE BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS a) THRU c) SHALL BE MET:
 - AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT START OF WORK DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
 - THE LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
 - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONCRETE PLACEMENT.
- ELIMINATION OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.2):
 - BATCH PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:
 - SITE FLATWORK,
 - UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS,
 - CONTROLLED LOW-STRENGTH MATERIAL BACKFILL, OR
 - SINGLE STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET.
- PER CBC 1910A.2, TESTING MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.
- REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
- INSPECTION OF VENEER DETAILED ON SHT. A7.0 MAY BE WAIVED BY DSA ON A SITE SPECIFIC BASIS.
- THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLLUMS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF 3/4" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2019 CBC 1705A.2.1.
- EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.
- QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2019 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.

TEST OR INSPECTION (as listed on DSA-103)⁹

MATERIAL TYPE

SOILS

1. GENERAL:

- Verify that:
 - Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.
 - Foundation excavations extended to proper depth and have reached proper material.
 - Materials below footings are adequate to achieve the design bearing capacity.

2. COMPACTED FILLS:

- Perform classification and testing of fill materials.
- Verify use of proper materials, densities, and inspect lift thicknesses, placement and compaction during placement of fill.
- Compaction testing.

CONCRETE

7. CAST IN PLACE CONCRETE - Lightweight over Metal Deck:

- Verify use of required design mix.
- Identify, sample, and test reinforcing steel⁽⁵⁾
- During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.
- Test concrete (f_c - compression).
- Batch plant inspection⁽¹⁾⁽²⁾ - design complies with 1705A.3.3
- Welding of reinforcing steel.

7. CAST IN PLACE CONCRETE - Foundation:

- Verify use of required design mix.
- Identify, sample, and test reinforcing steel⁽⁵⁾
- During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.
- Test concrete (f_c - compression).
- Batch plant inspection⁽¹⁾⁽²⁾ - design complies with 1705A.3.3
- Welding of reinforcing steel.

11. POST-INSTALLED ANCHORS⁽⁴⁾:

- Inspect installation of post-installed anchors
- Test post-installed anchors

MASONRY

14. VENEER OR GLASS BLOCK⁽⁶⁾:

- Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar.
- Inspect placement of units and construction of mortar joints.
- Inspect placement of reinforcement, connectors, and anchors.
- Inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames, and other construction.
- Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90°).
- Test veneer bond strength.

STEEL, ALUMINUM

17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES:

- Verify identification of all materials and:
 - Mil certificates indicate material properties that comply with requirements.
 - Material sizes, types and grades comply with requirements.
- Test unidentified materials
- Examine seam welds of HSS shapes
- Verify and document steel fabrication per DSA approved construction documents.

19. WELDING:

- Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.
- Verify weld filler material manufacturer's certificate of compliance.
- Verify WPS, welder qualifications and equipment.

19.1 SHOP WELDING:

- Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds
- Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds
- Inspect welding of stairs and railing systems (only required where noted on S10.0 & S10.1)
- Verification of reinforcing steel weldability other than ASTM A706.
- Inspect welding of reinforcing steel.

19.2 FIELD WELDING:

- Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds (See foundation anchorage - S1.6 sheets)
- Inspect single-pass fillet welds ≤ 5/16" (See foundation anchorage - S1.6 sheets)
- Inspect end-welded studs (ASTM A-108) installation (including bend test)
- Inspect floor and roof deck welds
- Inspect welding of structural cold-formed steel
- Inspect welding of stairs and railing systems
- Verification of reinforcing steel weldability
- Inspect welding of reinforcing steel.

20. NONDESTRUCTIVE TESTING⁽⁷⁾:

- Ultrasonic (Test per sheet S5.1)
- Magnetic Particle (Test per sheet S5.1)

22. SPRAY APPLIED FIRE-PROOFING:

- Examine structural steel surface conditions, inspect application, take samples, measure thickness, and verify compliance of all aspects of application with DSA approved documents.
- Test bond strength.
- Test density.

23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:

- Anchor Bolts and Anchor Rods
- Threaded rod not used for foundation anchorage.

OTHER

26. LOAD TEST FOR IDENTIFIED PRODUCT(S):

- Column fire rating where specified per 20/A8.0 and tested per 1705A.15

STOCKPILE		CONSTRUCTION (Diaphragm - Foundation)		RELOCATION OF CERTIFIED BUILDING
A	B	C	D	E
WOOD FLOOR ONLY	CONCRETE FLOOR	WOOD FLOOR - CONCRETE FOUNDATION	CONCRETE CONCRETE FOUNDATION	CONCRETE FOUNDATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122206 INC.
REVIEWED FOR
SS FLS ACS
DATE: 06/29/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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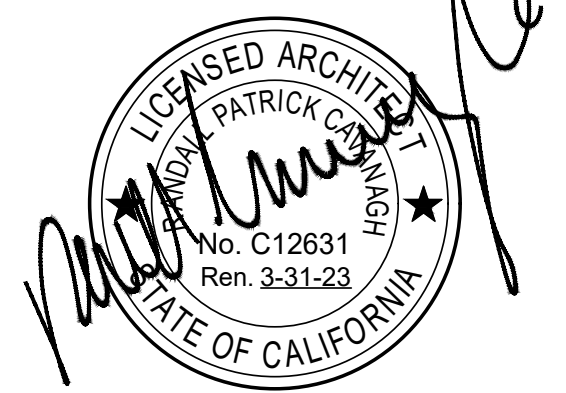
PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-148544 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/09/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

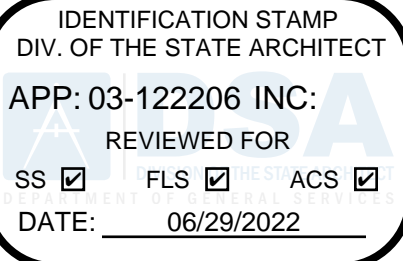


THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD

REVISIONS

DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
FORM
DSA-103

SHEET NUMBER:
D1



SECTION 1 GENERAL REQUIREMENTS

- 1. GENERAL
A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDRPC.

- 1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION TO BE PROVIDED BY THE RDRPC.
2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.

SECTION 2 FOUNDATION

- 1. ASSUMED ALLOWABLE SOIL BEARING:
• 1500 P.S.F. FOR CONCRETE FOUNDATIONS EMBEDDED 12" MINIMUM BELOW GRADE. (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED, FIRM, NATURAL SOIL OR APPROVED COMPACTED FILL.

SECTION 3 CONCRETE

- 1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14.
2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:
FOUNDATIONS.....PER SHEET N1.0A (150 PCF)
FOUNDATION VENTS & ACCESS WELLS.....PER SHEET N1.0A (150 PCF)
CONCRETE OVER METAL DECK.....3000 PSI (110 PCF)
3. THE MAXIMUM WATER TO CEMENT (W/C) RATIO SHALL BE PER SHEET N1.0A FOR FOUNDATIONS AND 0.45 FOR CONCRETE OVER METAL DECK.

CONCRETE continued

- 8. CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON DRAWINGS:
CONCRETE DIRECTLY AGAINST GROUND (EXCEPT SLABS)3"
CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS2"
SLABS (ON GROUND)POSITION IN CENTER OF SLAB
9. ALL BARS SHALL HAVE A CLASS B MINIMUM LAP SPlice PER DETAILS 6 & 9/S1.4 AND SPLICES IN ADJACENT BARS SHALL BE STAGGERED, U.N.O.

SECTION 5 STEEL

- 1. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS SECTION 2212A.1.2, AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER 'M' AND AISC 341-16 CHAPTER '1'
2. WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY, WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT.

SECTION 6 CARPENTRY

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
2. MATERIALS
LUMBER GRADE MARKED IN ACCORDANCE WITH AN APPROVED GRADING AGENCY PER DCO P520-05 INCLUDING "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES"; LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-09, PS 2-10, OR PRP-108 FOR SOFTWOOD OSB OR PLYWOOD, OF THE AMERICAN PLYWOOD ASSOCIATION (APA). EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.

Table with 2 columns: BEAMS <= 7" DEEP & COLUMNS, BEAMS >= 9 1/2" DEEP. Rows for Fc, Fv, E values.

- C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN.
D. BLOCKING: DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
E. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1. EACH PIECE SHALL BEAR AWPA STAMP, AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. (OR H.F. #2 ABOVE GROUND)
F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1403.2, & ASTM D226, TYPE I.
G. STUDS - S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.

CARPENTRY continued

- P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE 40% TO 70% OF THE SHANK DIAMETER.
R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.

SECTION 7A SHEET METAL (NON-STRUCTURAL)

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.

SECTION 7B METAL ROOFING

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING.
2. MATERIALS
A. ROOF SHALL BE CONSTRUCTED OF 3" STANDING SEAM INTERLOCKING (UNPENETRATED) STEEL SHEETS.
B. PROPERTIES INCLUDING THICKNESS SHALL BE PER SHEET 50.0.
C. BASE MATERIAL SHALL BE EITHER ASTM A1011 SS, GRADE 36 (Fy = 36 KSI) OR ASTM A653 SS, GRADE 37 (Fy = 37 KSI) AND SHALL BE GALVANIZED WITH 90 GALVANIZATION.

SECTION 7C SEALANT

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS, "GEOCEL" SILICONIZED CALK, GE DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.

SECTION 7D SINGLE-PLY ROOFING

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO INSTALL SINGLE-PLY OR BUILT-UP ROOFING. THE ROOFING SYSTEM SHALL WITHSTAND THE UPLIFT OF 10 MPH BASIC WIND SPEED.
2. MATERIALS
MEMBRANE: PVC FILM LAMINATED TO BOTH SIDES OF A REINFORCEMENT FABRIC, OR EQUIV. - PROPRIETARY THERMOPLASTIC PVC FORMULATION OF RESINS, PLASTICIZERS, STABILIZERS, BIOCIDES, FLAME RETARDANTS, AND U.V. ABSORBENTS. CLASS B FIRE RATING.
A. WOOD NAILERS MUST BE A #2 GRADE LUMBER, OR EQUIVALENT, TO SUBSTRATE.
3. WORKMANSHIP
MEMBRANE APPLIED ON SUBSTRATES THAT ARE DRY, CLEAN, AND FREE OF FINES, SHARP EDGES AND LOOSE, FOREIGN MATERIALS, WHEREVER INDICATED ON DETAILS. AN INSULATION OR SLIP SHEET HAVING AN APPROVED FACER MUST BE USED WHEN ROOFING OVER ASPHALT OR COAL TAR ROOFS.

SECTION 8 HOLLOW METAL DOORS AND FRAMES

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN. REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.

SECTION 9A STUCCO CEMENT PLASTER

- LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER, PER C.B.C. 2507.1.
LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN C.B.C. TABLE 2507.2 AND CHAPTER 35, AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7.

- WATER-RESISTIVE BARRIERS SHALL BE IN ACCORDANCE WITH C.B.C. SECTION 2510.6. WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED PER SECTION 1404.2, AND WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER.
EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT 60-MINUTE GRADE D PAPER COMPLYING WITH ASTM E 2556, TYPE II AND IS SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY NONWATER-ABSORBING LAYER OR DRAINAGE SPACE.

- 1. PLASTER NOTES: PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5.
A. THE FIRST COAT SHALL BE MIN. 3/8" THICK & APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.

SECTION 9B PAINTS & COATINGS

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS
A. FOR EXTERIOR WOOD:
REF BRAND DUNN KELLY SHERWIN SINCLAIR
EDWARDS MOORE WILLIAMS
42-9M 1240 Y24W20 289-N
PRIMER FINISH QD-60-XX 1240-XXX B54WZ102 GE2-NXX

- A. EXTERIOR WOOD SIDING, TRIM AND SKIRTING - FLAT OR SEMI-GLOSS LATEX. APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
B. INTERIOR TRIM - TRIM NOT PRE-COATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH, APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.

SECTION 9C INTERIOR AIR QUALITY CONTROL

- THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"):
1. ADHESIVES, SEALANTS, CAULKS SECTION 5.504.4.1
2. PAINTS, COATINGS SECTION 5.504.4.3
3. AEROSOL PAINTS & COATINGS SECTION 5.504.4.3.1
4. CARPET SYSTEMS SECTION 5.504.4.4

SECTION 13 SITE ASSEMBLY

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE, THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.

SECTION 23 AIR CONDITIONING

- 1. SCOPE OF WORK (SEE SHEET M1.7 FOR HVAC SPEC. AND NOTES)
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT
SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP
UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 26 ELECTRICAL

- 1. SCOPE OF WORK
A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT, EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVACS).
B. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYSTEM AND NOTIFICATION PER NFPA 72.
2. MATERIALS
ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.
A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARIZED. EXTERIOR FLEX-GALV. STEEL WITH FACTORY APPLIED P.V.C. JACKET.
B. PANEL BOARDS - FLUSH MOUNTED.
C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE #14.
D. RECEPTACLES - AS NOTED. +18" A.F.F. MIN. TO BOTTOM OF BOX
E. CLOCK RECEPTACLE - AS NOTED.
F. SWITCHES - AS NOTED. +48" A.F.F. MAX. TO TOP OF BOX
G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.

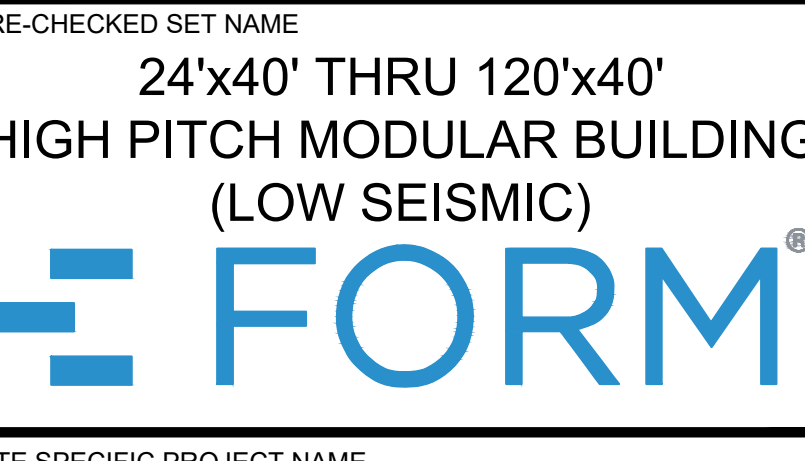
- 3. WORKMANSHIP
MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS SHALL BE FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BUILDING TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.). (FLEXIBLE CONDUIT S-BEND SEALTITE).

INSPECTION

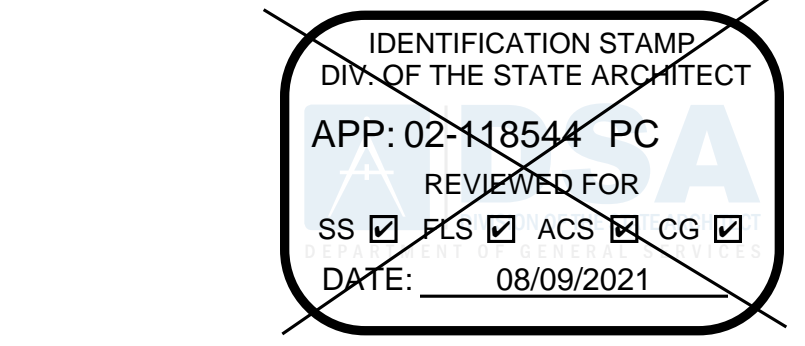
- INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS:
1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.
THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTION APPROVED BY D.S.A.
IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE OF OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY, OR FROM THE STORAGE FACILITY TO THE SITE, THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM DSA 152-1P).
A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.



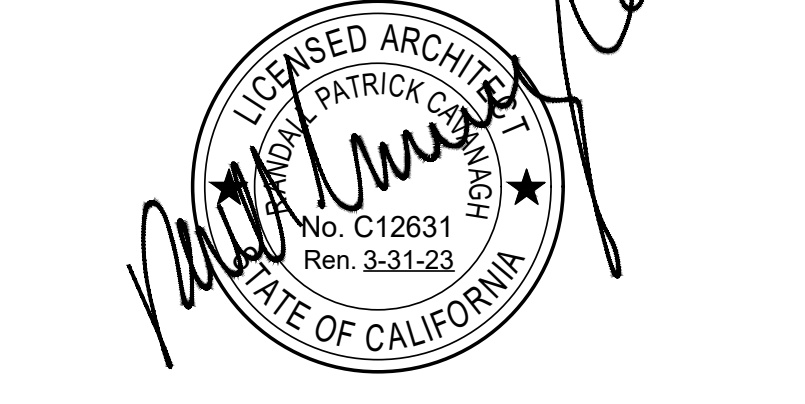
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SITE SPECIFIC PROJECT NAME
PRE-CHECKED STATE
24'x40' THRU 120'x40' HIGH PITCH MODULAR BUILDING (LOW SEISMIC)



2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
MANUFACTURER PROFESSIONAL OF RECORD ON PC



- A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARIZED. EXTERIOR FLEX-GALV. STEEL WITH FACTORY APPLIED P.V.C. JACKET.
B. PANEL BOARDS - FLUSH MOUNTED.
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E. CLOCK RECEPTACLE - AS NOTED.
F. SWITCHES - AS NOTED. +48" A.F.F. MAX. TO TOP OF BOX
G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD
REVISIONS

DRAWN BY: AS NOTED
DATE: MM/DD/YYYY
PROJECT NO: XXXX-20
SHEET TITLE:

GENERAL NOTES & SPECIFICATIONS

SHEET NUMBER: N1.0

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE. (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

- 1. ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
2. ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDRPC THAT SUCH IS THE CASE.
3. CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.
4. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

- 1. UP TO TEN (10) MODULES, APPROXIMATELY 12' x 40', DESIGNED SO THAT TWO (2) OR MORE MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE, TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.
2. EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
B. DESIGN WIND SPEED / EXPOSURE
C. DESIGN SEISMIC S_{DS} VALUE
D. DESIGN ROOF LIVE LOAD & SNOW LOAD.
E. DESIGN FLOOR LIVE LOAD
F. D.S.A. APPLICATION NUMBER
3. 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.
4. EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.
5. EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE RDRPC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
6. FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL. IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELL MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 1/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4"x8" PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16" PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

INTERIOR

- 1. FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 255 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.2.4) SHALL BE LESS THAN CLASS II. CARPET SHALL BE SECURELY ATTACHED. HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNLUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY THE RDRPC OR OWNER.)
2. BASES: RESILIENT COVE BASE - BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BLENDED COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 710). FLAME SPREAD INDEX SHALL NOT EXCEED 250. MAXIMUM PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
4. CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS. MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636, ASTM E580, AND DSA-IR 25-2.13 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-UP PANELS. SQUARE EDGE. LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.85 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C'; FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.
5. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
6. FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1-1.)

Table with 2 columns: WALL FINISH MATERIAL (CLASS 'A') and PIPE INSULATION (CLASS 'A'). Includes specifications for flame spread max and smoke developed max.

Table with 2 columns: BUILDING INSULATION (CLASS 'A') and DUCT INSULATION (CLASS 'A'). Includes specifications for flame spread max and smoke developed max.

- 7. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)

- 8. INTERIOR VENTILATION: EAVE VENTS AND ATTIC VENTS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER C.B.C. SECTION 1202.2.2.

DOORS & WINDOWS

- 1. EXTERIOR DOORS: METAL DOORS - 3'-0"x7'-0" HOLLOW METAL DOOR. CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. RECESSED STEEL FRAME ASTM A36 & CS242 HARDWARE REINFORCEMENT SHALL BE 10 GA. DOOR FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).
2. EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL, CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.
3. GLAZING MATERIAL SHALL BE: EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
4. HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA G5101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANSI), COMMERCIAL GRADE.
5. WINDOWS TO MATCH WHAT IS REQUIRED BY ENERGY REPORT. IF WINDOWS MUST BE NFRC RATED THAN NFRC LABELS SHALL BE LEFT ON THE WINDOWS FOR THE INSPECTOR TO VERIFY.

MECHANICAL EQUIPMENT PROTECTION

- 1. ALL MECHANICAL EQUIPMENT SHALL BE THOROUGHLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

FOUNDATION CLEARANCES FROM SLOPES

CBC 1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES: IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES EXCEPT AS PROVIDED IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1. THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION, WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL (100-PERCENT SLOPE). THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FROM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE SLOPE.

CBC 1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE: FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUND IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT, EXCEPT AS PROVIDED FOR IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1. THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA, WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL (100-PERCENT SLOPE). THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

FIRE EXTINGUISHER

- 1. EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

REFERENCE: 2019 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL

- 1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

SECTION 11B-216 SIGNAGE (ALSO REFER TO SPECIFICATIONS 11B-703, 1009.9, 1009.10, 1023.9) SIGNAGE IS REQUIRED:

- 1. TO IDENTIFY PERMANENT ROOMS & SPACES
2. TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES
3. TO IDENTIFY MEANS OF EGRESS
A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER 1009.9 AND 1009.11)
B. DIRECTIONS TO AN EXIT (PER 1009.10)
C. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6)
D. EXITWAYS (PER 1013.4)
• AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
• AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR DOWN" OR "EXIT RAMP DOWN")
• AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGeway, CORRIDOR, HALLWAY, ETC.
• OTHER HORIZONTAL WALLS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER 1013.1)
4. TO IDENTIFY ACCESSIBLE PARKING SPACES
5. TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE
6. TO IDENTIFY ELEVATORS
7. TO IDENTIFY TOILET ROOMS
8. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS

SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

SECTION 11B-404.2.8 DOOR CLOSING SPEED

- 1. THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12" FROM THE LATCH.

SECTION 11B-404.2.9 DOOR OPENING FORCE

- 1. THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED SLBS. EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE. THE MINIMUM FORCE NEEDED SHALL BE USED.

SECTIONS 11B-404.2.4.3 RECESSED DOORS

- 1. DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

SECTION 11B-405.5 RAMP WIDTH

- 1. THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

SECTION 11B-505 HANDRAILS

- 1. THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS.
2. HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALONG THE SIDE; MAX. 20% OBSTRUCTIONS ON THE BOTTOM (11B-505.6).
3. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND RAMPS.

SECTION 11B-606.4 WATER CONTROLS

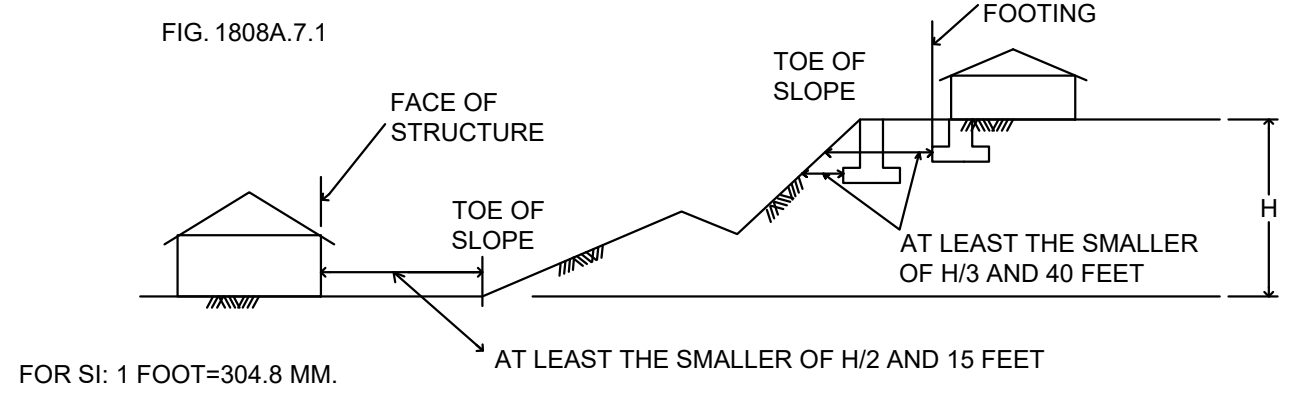
- 1. CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRIPPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS

- 1. AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
2. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-UP STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. THE LATCH AND PULL SHALL COMPLY WITH 11B-404.2.7. MAXIMUM 5 LB FORCE TO ACTIVATE (11B-309.4).
3. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNATED FOR USE BY PERSONS WITH DISABILITIES.
4. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK AND THE LAV FRONT EDGE.
5. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDRENS USE.
6. TOILET ACCESSORIES LOCATED IN THE CIRCULATION PATH AND WITH THE BOTTOM MOUNTED ABOVE 27" SHALL BE 4" DEEP MAX (11B-307.2).

OUTDOOR VENTILATION REQUIREMENTS:

CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER 1. THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.



LIGHT GAUGE METAL STUDS & COLD FORMED STEEL

- 1. ALL LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI S100-16.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.
3. CUSTOM FORMED SHAPES SHALL BE BENT FROM ASTM A1011 SS STEEL SHEETS.
4. STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION, ICC-ES EVALUATION REPORT ESR-3064P.
5. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH AISI S240-15, SECTION 4A. PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED, AND SHALL BE IN CONFORMANCE WITH ASTM C-955, OTHERWISE, G-90 OR EQUIVALENT COATING WILL BE PROVIDED.
6. WELDING OF LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL COMPLY WITH AWS D1.3-08.
7. ALL COLD-ROLLED MEMBERS FABRICATED BY AMS SHALL USE HOT-ROLLED SHEETS WITH THE FOLLOWING MIN. SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

Table with 4 columns: GA, MATERIAL, DESIGN THICKNESS, MIN. THICKNESS. Lists specifications for various materials like A1011 SS Gr. 36, A1011 SS Gr. 45, etc.

ABBREVIATION LEGEND

Large table mapping abbreviations to full names. Columns include: A (ACCESSIBLE), AC (ASPHALT CONCRETE), AC/ (AIR CONDITIONING), ACI (AMERICAN CONCRETE INSTITUTE), ACOUS (ACOUSTICAL), ADD (ADDENDUM), ADDL (ADDITIONAL), ADJ (ADJUSTABLE OR ADJACENT), AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), AISI (AMERICAN IRON AND STEEL INSTITUTE), ALT (ALTERNATE), ALUM (ALUMINUM), ANSI (AMERICAN NATIONAL STANDARDS), APA (AMERICAN PLYWOOD ASSOCIATION), ARCH (ARCHITECT(URAL)), ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS), AWC (AMERICAN WOOD COUNCIL), AWPA (AMERICAN WOOD PROTECTION ASSOCIATION), AWS (AMERICAN WELDING SOCIETY), BD (BOARD), BLDG (BUILDING), BLK (BLOCK), BLKG (BLOCKING), BLW (BELOW), BN (BOUNDARY NAILING), BOT/BOTT (BOTTOM), BRG (BEARING), BTWN (BETWEEN), BUR (BUILT UP ROOFING), CAB (CABINET), CB (CATCH BASIN), CBC (CALIFORNIA BUILDING CODE), CCR (CALIFORNIA CODE OF REGULATIONS), CEM (CEMENT), CF (CUBIC FOOT), CJ (CONTROL JOINT), CJP (COMPLETE JOINT PENETRATION), CLG (CEILING), CLR (CLEAR), CT (CERAMIC TILE), CMU (CONCRETE MASONRY UNIT), CNEL (COMMUNITY NOISE EQUIVALENT LEVEL), CO (CLEAN OUT), COL (COLUMN), CONC (CONCRETE), CONN (CONNECTION), CONT (CONTINUOUS), CSK (COUNTERSINK), CTRD (CENTERED), CW (COLD WATER), DBL (DOUBLE), DET (DETAIL), DF (DRINKING FOUNTAIN OR DOUGLAS FIR DIAMETER), DIA (DIAGONAL), DIM (DIMENSION), DIV (DIVISION), DR (DOOR), DS (DOWNSPOUT), DSA (DIVISION OF THE STATE ARCHITECT), DWG (DRAWING), (E) (EXISTING), EA (EXPANSION JOINT), EJ (EXPANSION JOINT), ELEV (ELEVATION), ELECT (ELECTRICAL), EMBED (EMBEDMENT), EMT (ELECTRICAL MAGNETIC TUBING), EN (EDGE NAILING (OR EDGE FASTENING)), ETC (ET CETERA), EQ (EQUAL), EW (EACH WAY), EXP (EXPOSURE), EXT (EXTERIOR), F (FAHRENHEIT), FUT (FUTURE), FAB (FABRICATION FACTOR), FAD (FLOOR DRAIN), FF (FINISHED FLOOR), FG (FINISHED GRADE), FHS (FLAT HEAD WOOD SCREW), FLD (FLOOR), FLR (FLOOR), FLSHG (FLASHING), FN (FIELD NAILING), FND/FNDN (FOUNDATION), FO (FACE OF), FOC (FACE OF CONCRETE), FOCOL (FACE OF COLUMN), FOF (FACE OF FINISH), FOP (FACE OF PLYWOOD), FOS (FACE OF STUD), FRP (FIBERGLASS REINFORCED FIBER PANELS), FT (FOOT), FTG (FOOTING), FURR (FURRED (-)ING), GA (GAUGE), GB (GYPSUM BOARD), GL (GLASS OR GLAZING), GLV/GALV (GALVANIZED), GSM (GALVANIZED SHEET METAL), GYP (GYPSUM), GYP.BD. (GYPSUM BOARD), HB (HOSE BIBB), HC (HOLLOW CORE), HDR (HEADER), HDW (HARDWOOD), HF (HEM FIR), HM (HOLLOW METAL (STEEL)), HOR/HORIZ (HORIZONTAL), HSS (HOLLOW STRUCTURAL SECTION (STEEL)), HT (HEIGHT), HVAC (HEATING VENTILATING AIR CONDITIONING), HW (HOT WATER), IAPMO (INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS), ICC (INTERNATIONAL CODE COUNCIL), ID (INSIDE DIAMETER), IN (INCH), INSUL (INSULATE (D), (ION)), INT (INTERIOR), INV (INVERT), IR (INTERPRETATION OF REGULATIONS), ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY/ACCESS), JOINT (JOINT), KSI (KIPS PER SQUARE INCH (KIPS = 1,000LBS)), LAM (LAMINATE(D)), LAV (LAVATORY), LB (LBS), LH (LONG LEG HORIZONTAL), LLV (LONG LEG VERTICAL), LNDG (LANDING), LONG (LONGITUDINAL), LAG (LAG SCREW), LIGHT (LIGHT), LW (LIGHT WEIGHT), LWC (LIGHT WEIGHT CONCRETE), MATL (MATERIAL), MAX (MAXIMUM), MB (MECHANICAL BOLT), MECH (MECHANICAL), MFG (MANUFACTURING), MFR (MANUFACTURER), MIN (MINIMUM), MIR (MIRROR), MISC (MISCELLANEOUS), MM (MILLIMETER), MTL (METAL), (N) (NEW), NIC (NOT IN CONTRACT), NDS (NATIONAL DESIGN SPECIFICATION), NW (NORMAL WEIGHT), NWC (NORMAL WEIGHT CONCRETE), O/ (OVER), OC (ON CENTER), OD (OUTSIDE DIAMETER), OH (OPPOSITE HAND OR OVERHANG), OI (OCCUPANT LOAD), OPG (OPENING), OPP (OPPOSITE), OSB (ORIENTED STRAND BOARD), PAF (POWER-ACTUATED FASTENER), PL (PROPERTY LINE), PLAM (PLASTIC LAMINATE), PLAS (PLASTER), PLF (POUNDS PER LINEAR FOOT), PLT (PLATE), PLW/PLPY (PLYWOOD), PNL (PANEL), POC (POINT OF CONNECTION), PS (PRODUCT STANDARD), PSF (POUNDS PER SQUARE FOOT), PSI (POUNDS PER SQUARE INCH), PSL (PARALLEL STRAND LUMBER), PT (PRESSURE TREATED), PTFD (PRESERVATIVE TREATED DOUGLAS FIR), PTN (PARTITION), PVC (POLYVINYL CHLORIDE), R (RISER), RD (ROOF DRAIN), RDRPC (REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE), RDWD (REDWOOD), REF (REFERENCE), REFR (REFRIGERATOR), REIN (REINFORCING), RED/REQD (REQUIRED), RES (RESILIENT), RDW (REDWOOD), RWL (RAIN WATER LEADER), SCH/SCHED (SCHEDULE), SD (STORM DRAIN), SDSTS (SELF-DRILLING, SELF-TAPPING SCREW), SEC (SECTION), SEP (SEPARATION), SF (SQUARE FEET), SHT (SHEET), SHTG (SHEATHING), SIM (SIMILAR), SMS (SHEET METAL SCREW), SNG (SINGLE), SP (STRUCTURAL PLYWOOD), SPEC (SPECIFICATIONS), SQ (SQUARE), SS (STAINLESS STEEL), SSM (STEEL STUD MANUFACTURERS ASSOCIATION), STAGG (STAGGERED), STN (STAIN), STD (STANDARD), STL (STEEL), STS (SELF TAPPING SCREW), STSMS (SELF TAPPING SHEET METAL SCREW), T&B (TOP AND BOTTOM), T&G (TONGUE AND GROOVE), TEMP (TEMPERED), THRU (THROUGH), TJ (TOOL JOINT), TOC (TOP OF CURB, CRICKET, OR CONCRETE), TOP (TOP OF PARAPET), TOW (TOP OF WALL), TOW (TOP OF WALL), TRANS (TRANSVERSE), TS (TOP OF SHEATHING), TV (TELEVISION), TYP (TYPICAL), UNO (UNLESS OTHERWISE NOTED), UNO (UNLESS NOTED OTHERWISE), VAR (VARIES), VCT (VINYL COMPOSITION TILE), VCTB (VINYL COVERED TACKBOARD), VERT (VERTICAL), VOC (VOLATILE ORGANIC COMPOUND(S)), VFY (VERIFY), VIF (VERIFY IN FIELD), VVC (VINYL WALL COVERING), W/ (WITH), WD (WOOD), WF (WIDE FLANGE), WIN (WINDOW), W/O (WITHOUT), WS (WOODSCREW), WSCT (WAINSCOT), WT (WEIGHT), WWF (WELDED WIRE FABRIC), Z (ANGLE), @ (AT), C (CENTER LINE), DL (DIAMETER), D (DEGREES), M (MODULE LINE), P (PLUS/MINUS)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122206 INC. REVIEWED FOR SS FLG ACS DATE: 06/29/2022

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PRE-CHECKED SET NAME 24'x40' THRU 120'x40' HIGH PITCH MODULAR BUILDING (LOW SEISMIC) FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-118544 PC REVIEWED FOR SS FLG ACS CG DATE: 08/09/2021

2019 CBC PRE-CHECK (PC) DOCUMENT A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

Licensed Architect Seal for Patrick M. ... State of California

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD

Table with 2 columns: REVISIONS, and a list of revision symbols (triangles) and descriptions.

DRAWN BY: AS NOTED SCALE: AS NOTED DATE: MM/DD/YY PROJECT NO: XXXX-20 SHEET TITLE:

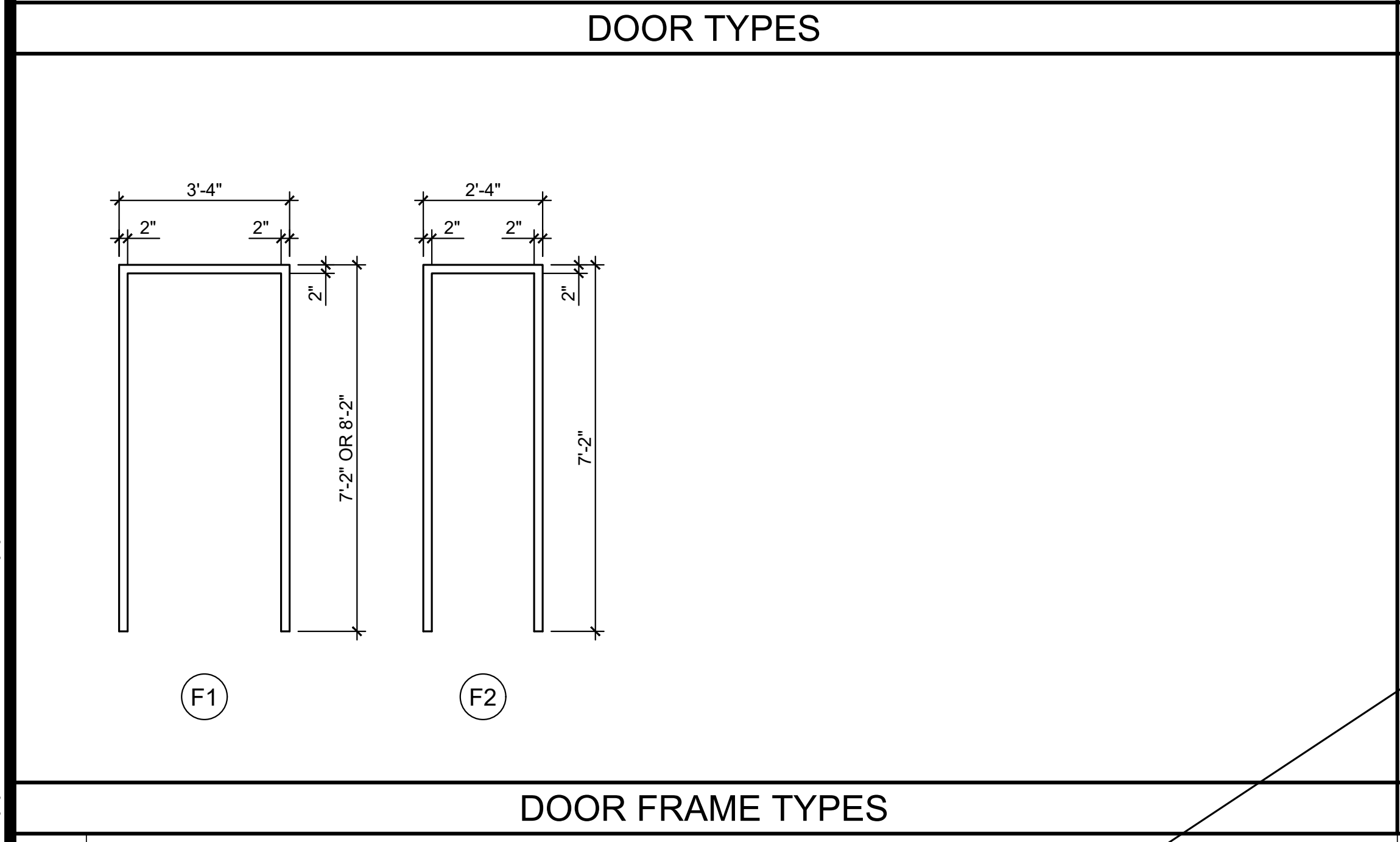
GENERAL NOTES & SPECIFICATIONS

SHEET NUMBER: N2.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122206 INC.
REVIEWED FOR
DATE: 06/29/2022

DOORS					FRAMES			REMARKS		
DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE		MATERIAL	FINISH
1	D1	3'-0" x 7'-0"	-	HM	PT	A OR B	(F1)	S	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
2	D2	3'-0" x 7'-0"	-	HM	PT	A	(F2)	S	PT	
3	D3	2'-0" x 7'-0"	-	HM	PT	A	(F2)	S	PT	
4	D4	3'-0" x 7'-0"	-	SC	CLR	C	(F1)	S	PT	

DOOR ABBREVIATIONS			DOOR NOTES		
HM - HOLLOW METAL	SC - SOLID CORE WOOD	1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.			
AL - ALUMINUM	HC - HOLLOW CORE WOOD	2. CLASSROOMS > 981 S.F. WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.			
S - STEEL	PT - PAINTED	3. PER S.B.C. 1010.1.11: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.			
SST - STAINLESS STEEL	CA - CLEAR ANODIZED				
STL - STEEL FRAME, 16ga FULLY WELDED	BR - BRONZE ANODIZED				
WWF - WINDOW WALL FRAME	CLR - CLEAR FINISH				

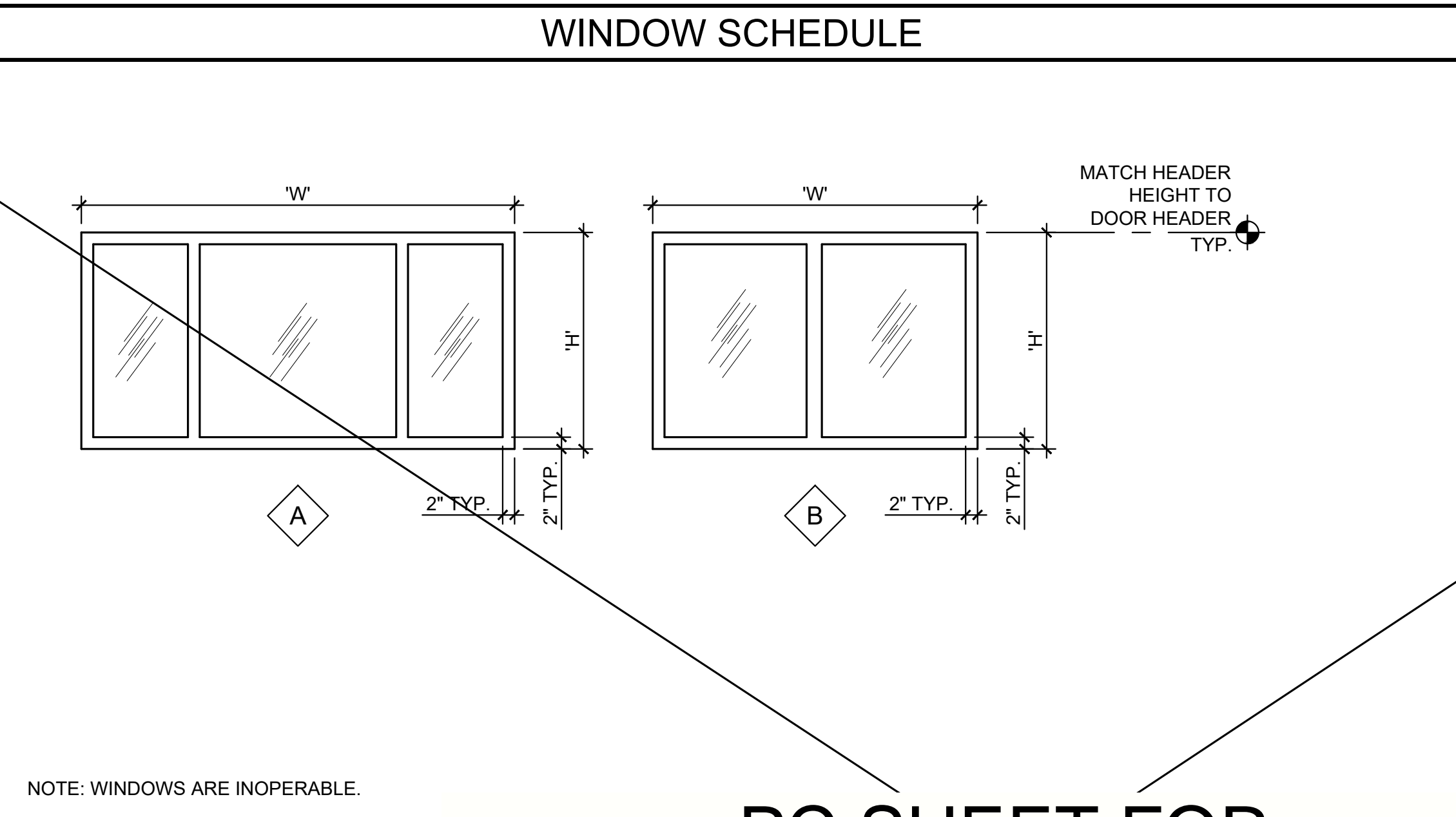


DOOR FRAME TYPES	
A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 OR MORE)
C	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER
E	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER
F	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER

EXTERIOR DOOR HARDWARE

- HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
- CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL, (5 LBS. MAX. PRESSURE)
- WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
- THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
- LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11); PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

WINDOW TYPE	QTY.	FUNCTION	W' WIDTH	H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	-	FIXED	10'-0" MAX.	8'-0" MAX.	BRONZE ANODIZED	SOLAR GREY ⁶	0.780	0.430	0.37	27	INOPERABLE
B	-	FIXED	6'-0" MAX.	6'-0" MAX.	BRONZE ANODIZED	SOLAR GREY ⁶	0.780	0.430	0.37	27	INOPERABLE



PC SHEET FOR REFERENCE

DOOR HARDWARE NOTES	
1.	OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
2.	HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX. (11B-404.2.7, 11B-309.4)
3.	ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

DOOR HARDWARE SCHEDULE

FINISHES											
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS					CEILING	CEILING HEIGHT	REMARKS
				FRONT	REAR	RIGHT	LEFT	CEILING			
101 TYP	CLASSROOM - STANDARD	A	D	F	F	F	F	K	8'-6"		
102 TYP	CLASSROOM - STANDARD	A	D	F	F	F	F	K	8'-6"		
---	TYP BOYS R.R.	B	E	J	J	J	J	H	8'-6"		
---	TYP GIRLS R.R.	B	E	J	J	J	J	H	8'-6"		
---	TYP STAFF ROOM	B	E	J	J	J	J	H	8'-6"		
---	TYP SINGLE TOILET R.R.	B	E	J	J	J	J	H	8'-0"		

FINISH INDICATOR OPTIONS	
A -	CARPET, PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.
B -	VINYL SHEET FLOORING; 0.6 MIN. C.D.F. PER ASTM D 2047
C -	VCT; ARMSTRONG, STANDARD, OR EXCELON.
D -	TOP SET BASE; 4"
E -	TOP SET BASE; 6"
F -	WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
G -	1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH
H -	1/2" GYP BOARD; TAPE, PAINTED FINISH
J -	3/32" F.R.P.; OVER 1/2" W.R. GYP BOARD
K -	ACOUSTICAL LAY-IN GRID CEILING PANELS; 2'x2' OR 2'x4'
L -	1/2" VINYL TACKBOARD, CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING
M -	5/8" TYPE "X" GYP BOARD; TAPE, TEXTURE, PAINTED FINISH
N -	CERAMIC TILE (FULL HEIGHT AT WALLS)
O -	EXPOSED CONCRETE WITH CONCRETE SEALER
P -	CLOUD CEILING PANELS

ROOM FINISHES SCHEDULE	
101 TYP	CLASSROOM - STANDARD
102 TYP	CLASSROOM - STANDARD
---	TYP BOYS R.R.
---	TYP GIRLS R.R.
---	TYP STAFF ROOM
---	TYP SINGLE TOILET R.R.

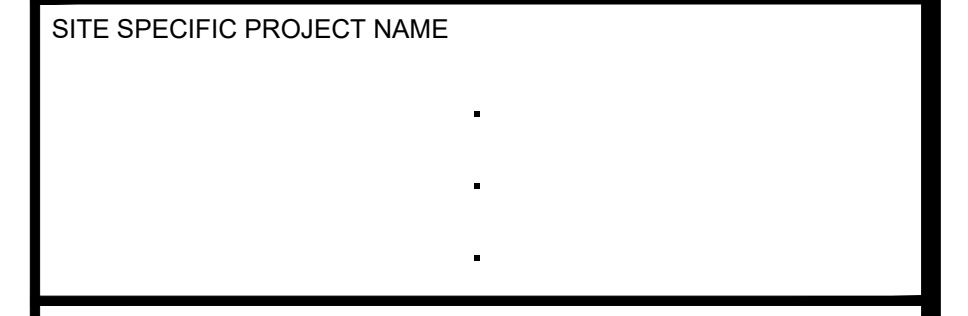
DOOR HARDWARE SCHEDULE	
A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 OR MORE)
C	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER
E	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER
F	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER

DOOR HARDWARE SCHEDULE



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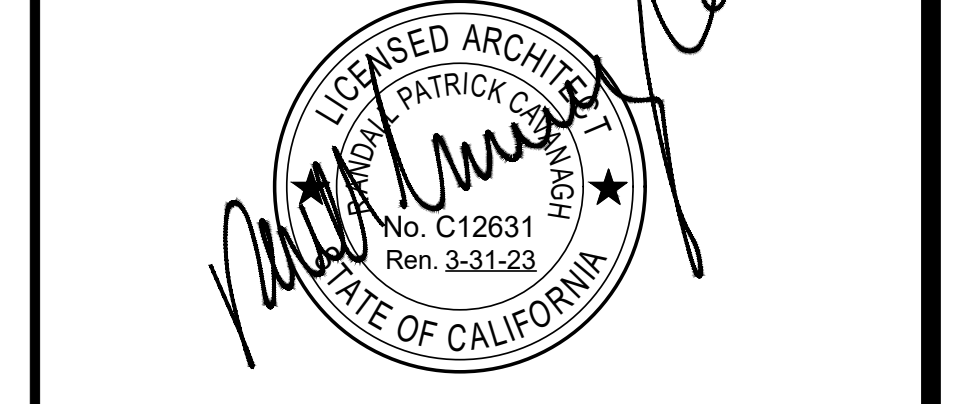
PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)



SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118544 PC
REVIEWED FOR
DATE: 08/09/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.



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DRAWN BY: AS NOTED
SCALE: MM/DD/YY
DATE: XXXX-20
PROJECT NO: XXXX-20

SHEET TITLE:
TYPICAL SCHEDULES
DOORS, WINDOWS
& FINISHES

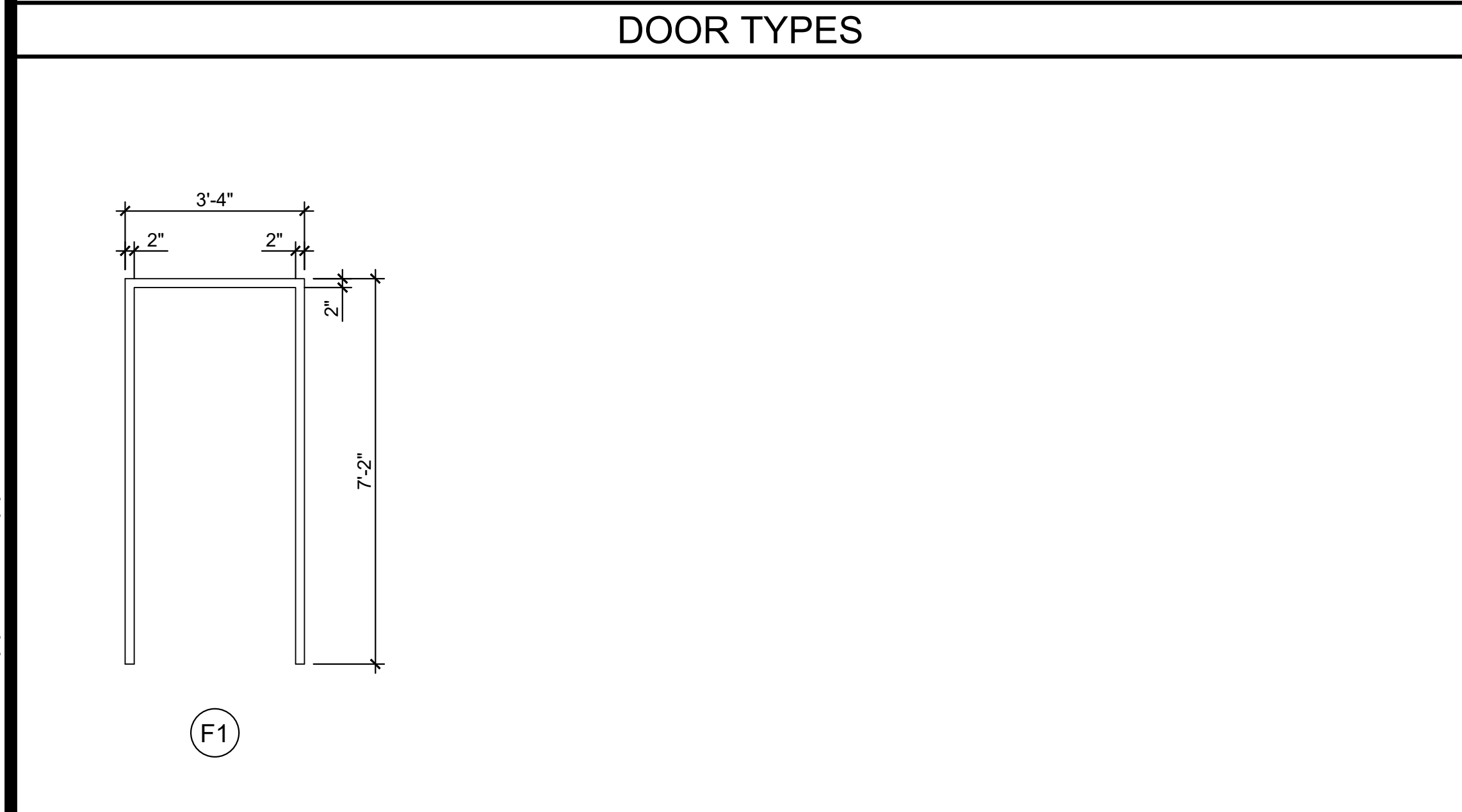
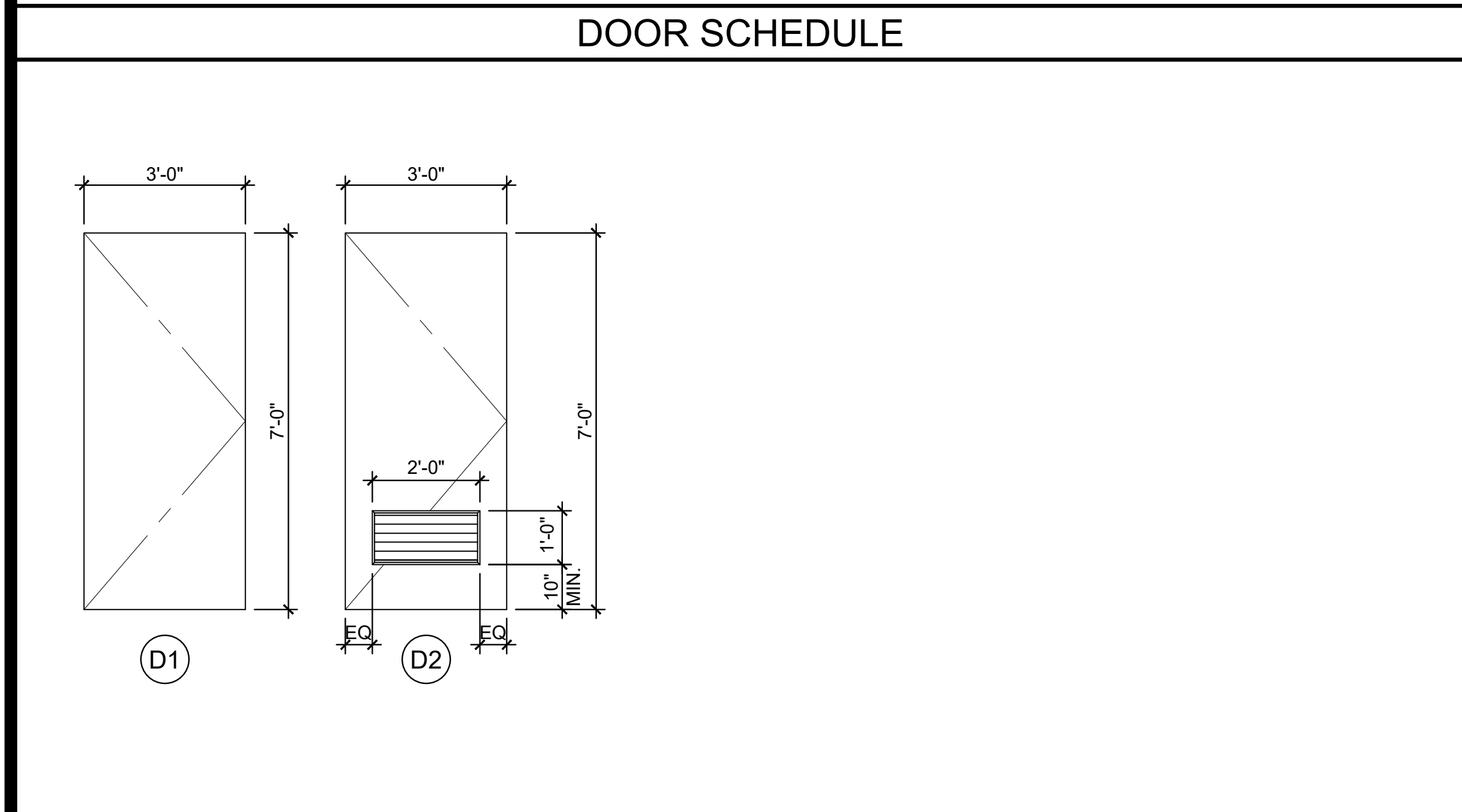
SHEET NUMBER:
N3.0

DOORS							FRAMES			REMARKS
DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	MATERIAL	FINISH	
1	(D1)	3'-0" x 7'-0"	1	HM	PT	A	(F1)	S	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
2	(D2)	3'-0" x 7'-0"	6	HM	PT	A	(F1)	S	PT	

DOOR ABBREVIATIONS
 HM - HOLLOW METAL
 AL - ALUMINUM
 S - STEEL
 SST - STAINLESS STEEL
 STL - STEEL FRAME, 16ga FULLY WELDED
 WWF - WINDOW WALL FRAME

SC - SOLID CORE WOOD
 HC - HOLLOW CORE WOOD
 PT - PAINTED
 CA - CLEAR ANODIZED
 BR - BRONZE ANODIZED
 CLR - CLEAR FINISH

DOOR NOTES
 1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.
 2. CLASSROOMS > 981 S.F. WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.
 3. PER C.B.C. 1010.1.11: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.



DOOR FRAME TYPES

A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 OR MORE)
C	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER
E	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER
F	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER

EXTERIOR DOOR HARDWARE
 1. HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
 2. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL, (5 LBS. MAX. PRESSURE)
 3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
 4. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
 5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11); PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

DOOR HARDWARE SCHEDULE

NOT USED

NOT USED

NOT USED

DOOR HARDWARE NOTES

- OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
- HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX. (11B-404.2.7, 11B-309.4)
- ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

FINISHES

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS					CEILING	CEILING HEIGHT	REMARKS
				FRONT	REAR	RIGHT	LEFT				
101	GIRLS RESTROOM	N	E	J/N	J/N	J/N	J/N	H	9'-0"		
102	BOYS RESTROOM	N	E	J/N	J/N	J/N	J/N	H	9'-0"		
103	MEN'S RESTROOM	N	E	J/N	J/N	J/N	J/N	H	9'-0"		
104	UNISEX /CHANGING R.R.	N	E	J/N	J/N	J/N	J/N	H	9'-0"		
105	JAN/WH ROOM	B	D	J	J	J	J	K	9'-0"	2 SIDES ABUTTING THE SERVICE SINK, APPROXIMATELY 4H x 3W EACH SIDE	
106	WOMEN'S RESTROOM	N	E	J/N	J/N	J/N	J/N	H	9'-0"		
107	UNISEX /CHANGING R.R.	N	E	J/N	J/N	J/N	J/N	H	9'-0"		

FINISH INDICATOR OPTIONS

A - CARPET; PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.
 B - VINYL SHEET FLOORING; 0.6 MIN. C.D.F. PER ASTM D 2047
 C - VCT; ARMSTRONG, STANDARD, OR EXCELON.
 D - TOP SET BASE; 4"
 E - TOP SET BASE; 6"
 F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
 G - 1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH
 H - 1/2" GYP BOARD; TAPE, PAINTED FINISH
 J - 3/32" F.R.P.; OVER 1/2" W.R. GYP BOARD
 K - ACOUSTICAL LAY-IN GRID CEILING PANELS; 2'x4'
 L - 1/2" VINYL TACKBOARD; CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING
 M - 5/8" TYPE "X" GYP BOARD; TAPE, TEXTURE, PAINTED FINISH
 N - CERAMIC TILE - (FULL HEIGHT AT WALLS)
 O - EXPOSED CONCRETE WITH CONCRETE SEALER
 P - CLOUD CEILING PANELS

ROOM FINISHES SCHEDULE

DOOR HARDWARE SCHEDULE

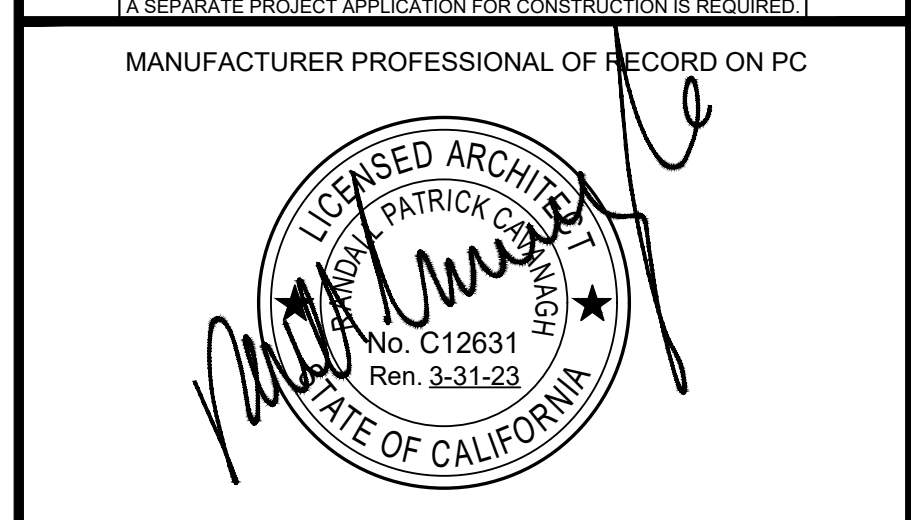
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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
ROWLAND USD
HOLLINGWORTH ES
(1) 24' x 40' RESTROOM

2019 CBC PRE-CHECK (PC) DOCUMENT
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 MANUFACTURER PROFESSIONAL OF RECORD ON PC



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DRAWN BY: JMA/WY
 SCALE: AS NOTED
 DATE: 06/07/22
 PROJECT NO: 1685-20

SHEET TITLE:
TYPICAL SCHEDULES
DOORS, WINDOWS
& FINISHES

SHEET NUMBER:
N3.0-M

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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118544 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/09/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC
Licensed Architect
PATRICK C. HENNING
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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DRAWN BY: AS NOTED
SCALE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:

ACCESSIBILITY STANDARDS AND DETAILS

SHEET NUMBER:
N4.0

WALL MOUNTED RESTROOM SYMBOLS-MEN NOT TO SCALE

NOTE: * (SIGN...)

LETTERING AND PICTOGRAMS SHALL CONTRAST WITH THEIR BACKGROUND, AND HAVE A NON-GLARE FINISH.

ISA (OR INTERNATIONAL SYMBOL OF ACCESSIBILITY) ONLY PERMITTED AT ACCESSIBLE RESTROOMS.

LOCATE TEXT DESCRIPTORS DIRECTLY BELOW PICTOGRAM FIELD (TEXT PER DETAIL 10/-)

BRAILLE, DIRECTLY BELOW TEXT (BRAILLE PER DETAIL 10/-)

RADIUS CORNERS, 0.125" MIN. (TYP.)

PICTOGRAM FIELD 6" MIN.

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

DOOR MOUNTED RESTROOM SYMBOLS-WOMEN NOT TO SCALE

NOTE: * (SIGN...)

1/2" THICK CIRCLE SHALL CONTRAST W/ DOOR

GEOMETRIC SYMBOLS SHALL HAVE EDGES ROUNDED, CHAMFERED OR EASED, TYP.

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

WALL MOUNTED RESTROOM SYMBOLS-UNISEX NOT TO SCALE

NOTE: * (SIGN...)

UNISEX

TEXT PER DETAIL 10/-

BRAILLE, DIRECTLY BELOW TEXT (BRAILLE PER DETAIL 10/-)

RADIUS CORNERS, 0.125" MIN. (TYP.)

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. THE UNISEX WALL-MOUNTED SIGN SHALL HAVE RAISED TEXT. CORRESPONDING BRAILLE, AND NO PICTOGRAM (DSA BU 17-01)

ROOM IDENTIFICATION SIGNAGE NOT TO SCALE

NOTE: SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

EQ. EQ. 9" TYP.

CENTERED ON TACTILE CHARACTERS PER 11B-703.4.2

WALL MOUNTED ROOM I.D. SIGNAGE, PER DETAIL 5/-, LOCATE AT LATCH SIDE OF DOOR (TYP.)

AT TOILET ROOMS, PLACE RESTROOM SIGN, PER DETAIL 2.7.8/- ON EACH TOILET ROOM DOOR @ 58" TO 60" ABOVE FINISH FLOOR, CENTERED ON DOOR

TYPICAL DOOR

PERMANENT ROOM I.D. SIGNAGE NOT TO SCALE

NOTE:

1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703

2. FOR REQUIRED TACTILE & NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216"

3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

TACTILE CHARACTERS SHALL BE UPPERCASE, SANS SERIF, RAISED 1/32" MIN., 5/8" MIN. TO 2" MAX HEIGHT, PER C.B.C. SECTION 11B-703.2. COLOR SHALL CONTRAST WITH BACKGROUND AND SHALL HAVE A NON-GLARE FINISH.

LOCATE SIGN PER DETAIL 4

BRAILLE SHALL BE CONTRACTED (GRADE 2), LOCATED DIRECTLY BELOW CORRESPONDING TEXT, DOTS 1/10" O.C., PER C.B.C. SECTION 11B-703.3. BRAILLE SHALL BE DOMED OR ROUNDED.

WALL MOUNTED RESTROOM SYMBOLS-WOMEN NOT TO SCALE

NOTE: * (SIGN...)

LETTERING AND PICTOGRAMS SHALL CONTRAST WITH THEIR BACKGROUND, AND HAVE A NON-GLARE FINISH.

ISA (OR INTERNATIONAL SYMBOL OF ACCESSIBILITY) ONLY PERMITTED AT ACCESSIBLE RESTROOMS.

LOCATE TEXT DESCRIPTORS DIRECTLY BELOW PICTOGRAM FIELD (TEXT PER DETAIL 10/-)

BRAILLE, DIRECTLY BELOW TEXT (BRAILLE PER DETAIL 10/-)

RADIUS CORNERS, 0.125" MIN. (TYP.)

PICTOGRAM FIELD 6" MIN.

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

DOOR MOUNTED RESTROOM SYMBOL-MEN NOT TO SCALE

NOTE: * (SIGN...)

1/2" THICK TRIANGLE SHALL CONTRAST W/ DOOR

GEOMETRIC SYMBOLS SHALL HAVE EDGES ROUNDED, CHAMFERED OR EASED, TYP.

RADIUS CORNERS, 0.125" MIN. & 0.25" MAX (TYP.)

EQUILATERAL

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

DOOR MOUNTED RESTROOM SYMBOLS-UNISEX NOT TO SCALE

NOTE: * (SIGN...)

1/2" THICK TRIANGLE, COLOR SHALL CONTRAST WITH CIRCLE

1/2" THICK CIRCLE SHALL CONTRAST W/ DOOR

GEOMETRIC SYMBOLS SHALL HAVE EDGES ROUNDED, CHAMFERED OR EASED, TYP.

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6
5. UNISEX DOOR SYMBOL SHALL BE PROVIDED WITHOUT TEXT, BRAILLE OR THE USE OF A PICTOGRAM PER DSA BU 17-01

INT'L SYMBOL OF ACCESSIBILITY NOT TO SCALE

NOTE:

1. PROVIDE MECHANICAL MOUNTING w/VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

2. SYMBOL PER C.B.C. SECTION 11B-703.2.1

3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

INTERNATIONAL SYMBOL OF ACCESSIBILITY: WHITE FIGURE ON BLUE BACKGROUND, AND HAVE A NON-GLARE FINISH.

TACTILE SIGNAGE REQUIREMENTS NOT TO SCALE

NOTE:

1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703

2. FOR REQUIRED TACTILE AND NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216"

3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

TACTILE CHARACTERS SHALL BE UPPERCASE, SANS SERIF, RAISED 1/32" MIN., 5/8" MIN. TO 2" MAX HEIGHT, PER C.B.C. SECTION 11B-703.2. COLOR SHALL CONTRAST WITH BACKGROUND AND SHALL HAVE A NON-GLARE FINISH.

LOCATE SIGN PER DETAIL 4

BRAILLE SHALL BE CONTRACTED (GRADE 2), LOCATED DIRECTLY BELOW CORRESPONDING TEXT, DOTS 1/10" O.C., PER C.B.C. SECTION 11B-703.3. BRAILLE SHALL BE DOMED OR ROUNDED.

OCCUPANT LOAD SIGN NOT TO SCALE

NOTE:

1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

2. 11B-216.3 SIGNS THAT PROVIDE INFORMATION ABOUT INTERIOR SPACES SHALL COMPLY WITH SECTION 11B-703.5

A. TYPESTYLE: 1" HIGH BLOCK 1/16" THICK ENGRAVED PLASTIC.

B. MOUNTING: (4) #8x1" SCREWS OR SELF-ADHESIVE HEIGHT AS SHOWN.

C. CAPACITY POSTING PER C.B.C. SECTION 1004.3 TITLE 19 C.C.R., SECTION 3.30: "THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM".

D. THE SIGN SHALL BE WORDED AS FOLLOWS, WITH THE APPROPRIATE CAPACITY NUMBER LISTED:

1'-6" MAX

70" MAX A.F.F.

THRESHOLD @ EXTERIOR DOOR NOT TO SCALE

NOTE: * (SIGN...)

DOOR

DOOR BOTTOM W/ SWEEP & WEATHERSTRIP

THRESHOLD: EDGES IN DIRECTION OF TRAVEL SHALL SLOPE NO MORE THAN 1/4" MAX SEE PROFILE OPTIONS ABOVE.

#10x2" COUNTERSUNK TEKs SCREW, OR AS SUITABLE TO FLOORING SYSTEM, @ 24" O.C. TYP.

FLOORING SYSTEM PER PLAN

1/4:12 MAX SLOPE @ WALKWAY

PROFILES: PROFILE 'B' (1/2" MAX, 1/4" MAX), PROFILE 'A' (1/2" MAX, 1/4" MAX)

SIDE REACH AT BASE CABINET NOT TO SCALE

NOTE:

1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

2. LOCATE AT OR NEAR THE ENTRANCE IN A PROMINENT PLACE (PER 11B-106.10)

3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

4. SYMBOL PER CBC SECTION 11B-703.7.2.4

5. THE SIGN SHALL COMPLY WITH 11B-703.5 AND SIGN SHALL BE MOUNTED AT A HEIGHT COMPLYING WITH TABLE 11B-703.5.5.

BASE CABINET

REACH HEIGHT 48" MAX

CONDITION 'A' (>10-24" MAX)

CONDITION 'B' (10" MAX)

FLOORING TRANSITION DETAIL NOT TO SCALE

NOTE:

1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

ALUMINUM CARPET BAR

RESILIENT FLOORING

UNDERLAYMENT (OPTIONAL)

CARPET

FLOOR SYSTEM

FASTEN @ 12" O.C. w/FASTENER COMPATIBLE TO FLOOR SYSTEM

MAX SLOPE: 1/4"

1/2" MAX

EGRESS SIGNAGE NOT TO SCALE

NOTE:

1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

EGRESS SIGNAGE IS REQUIRED:

- TO PROVIDE DIRECTIONS TO AN EXIT (PER C.B.C. 1009.10)
- AT EXIT WAYS (PER C.B.C. 1013.4)
- AT AN EXIT BY MEANS OF A RAMP ("EXIT RAMP DOWN")
- AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
- OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER C.B.C. 1013.1)

SIGNAGE PER C.B.C. SECTION 11B-216. (ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

SIGN REQUIREMENTS PER DETAIL 10 & 16

A. EXIT

B. NOT USED.

C. EXIT RAMP DOWN

D. EXIT ROUTE

E. TO EXIT

TYPICAL CLASSROOM SIGNAGE LOCATION NOT TO SCALE

NOTE:

18" MIN CLEAR FLOOR SPACE SHALL BE CENTERED ON THE TACTILE CHARACTERS OF THE SIGN PER 11B-703.4.2

OCCUPANT LOAD SIGN (N.I.C.), SEE DETAIL 11/- TYP.

TACTILE EXIT SIGNAGE (N.I.C.), SEE DETAIL 10/- TYP.

ROOM ID SIGNAGE (N.I.C.), SEE DETAIL 5/- TYP.

18" MIN CLR

FIN. FL.

ASSISTIVE LISTENING SIGN NOT TO SCALE

NOTE: * (SIGN...)

5/8" MINIMUM CHARACTER HEIGHT. THE BASELINE OF THE LOWEST CHARACTER IS 40" A.F.F. MINIMUM.

70" MAX A.F.F.

RADIUS CORNERS, 0.125" MIN. (TYP.)

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE AT OR NEAR THE ENTRANCE IN A PROMINENT PLACE (PER 11B-106.10)
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. SYMBOL PER CBC SECTION 11B-703.7.2.4
5. THE SIGN SHALL COMPLY WITH 11B-703.5 AND SIGN SHALL BE MOUNTED AT A HEIGHT COMPLYING WITH TABLE 11B-703.5.5.

NOT USED

NOT USED

SHEET NOTES

NOT USED



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PRE-CHECK SET NAME
 24'x40' THRU 120'x40'
 HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)
 FORM

SITE SPECIFIC PROJECT NAME
 .
 .
 .

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
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REVISIONS

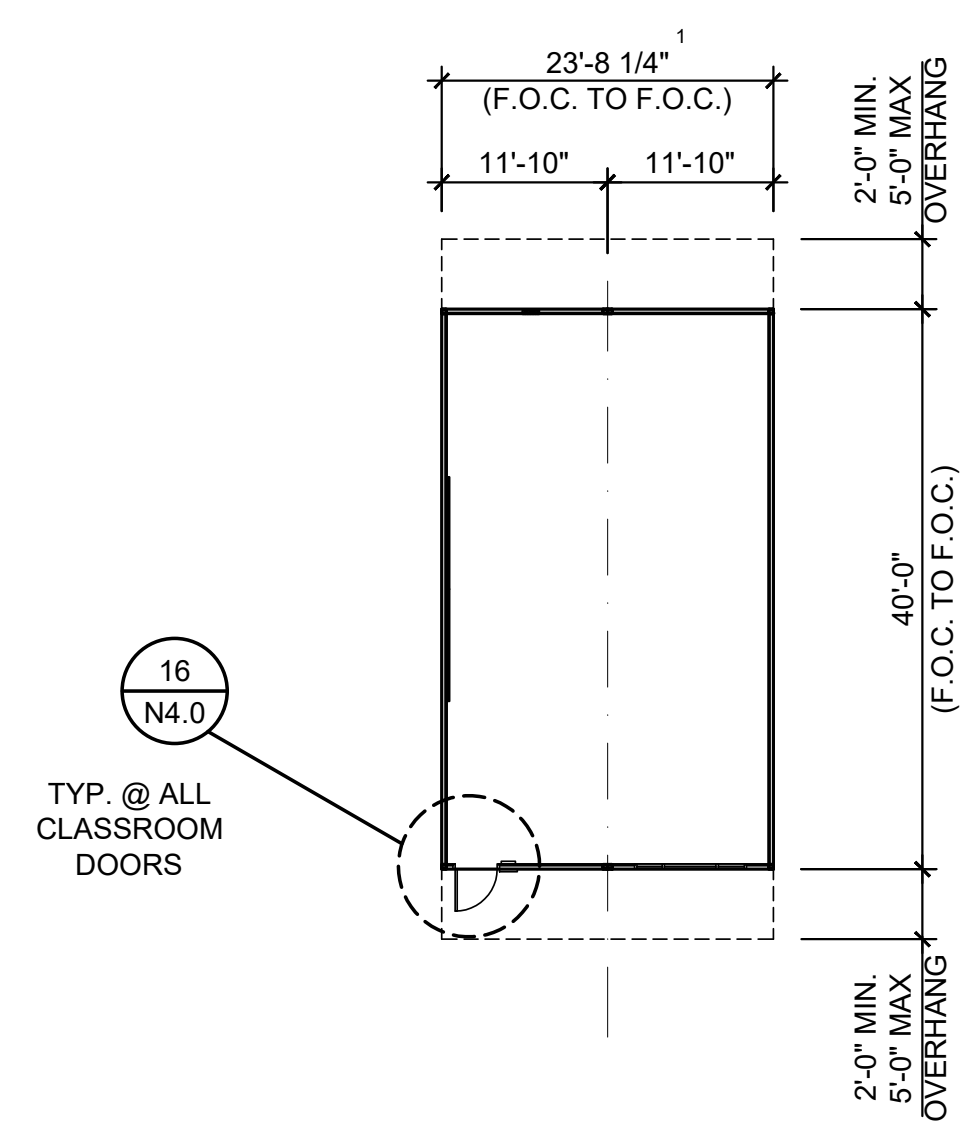
DRAWN BY: AS NOTED
 SCALE: AS NOTED
 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE:

MULTIPLE FLOOR PLAN
 CONFIGURATIONS

SHEET NUMBER:
 N5.0

- PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, PER CBC 1010.1.10.
- THE BUILDING SIZES AND SQUARE FOOTAGES REFLECTED ON THIS SHEET ARE SUBJECT TO SQUARE FOOTAGE INCREASE AS PERMITTED BY SITE CONDITIONS, PER CBC 506.2, AND BY AUTOMATIC SPRINKLER SYSTEM, PER CBC 506.3.
- RESTROOM CONFIGURATIONS OCCUR AT OUTER WINGS OF BUILDINGS.
- SEE FOUNDATION DRAWINGS FOR TRUE DIMENSIONS AT FLOOR PLACEMENT AND OVERALL FOUNDATION SIZE.
- FOR ROOM ID SIGNAGE (N.I.C.) SEE DETAIL 5/N4.0. TYPICAL FOR ALL BUILDING CONFIGURATIONS.
- MINIMUM EGRESS REQUIRED SHALL BE 34" PER CLASSROOM OR DIMENSION SPECIFIED IN BUILDING DATA, WHICHEVER IS GREATER.
- TOTAL WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS.
- BUILDING DATA REPORTED ON THIS SHEET IS INTENDED FOR OCCUPANT LOAD AND EGRESS. TOTAL BUILDING SQUARE FOOTAGE WHICH INCLUDES AREA FROM SITE SPECIFIC OVERHANGS OR PROJECTIONS IS NOT INCLUDED.
- THE CONFIGURATIONS SHOWN ARE OVERALL BUILDING FOOTPRINTS. INTERIOR WALLS/PARTITIONS (IF APPLICABLE) ARE NOT SHOWN FOR CLARITY.

SITE NOTE:
 3/16" (1%) MINIMUM TO 1/4" (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE ¹	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
24' x 40'	23' - 8 1/4"	947.5	9500	49	9.8"

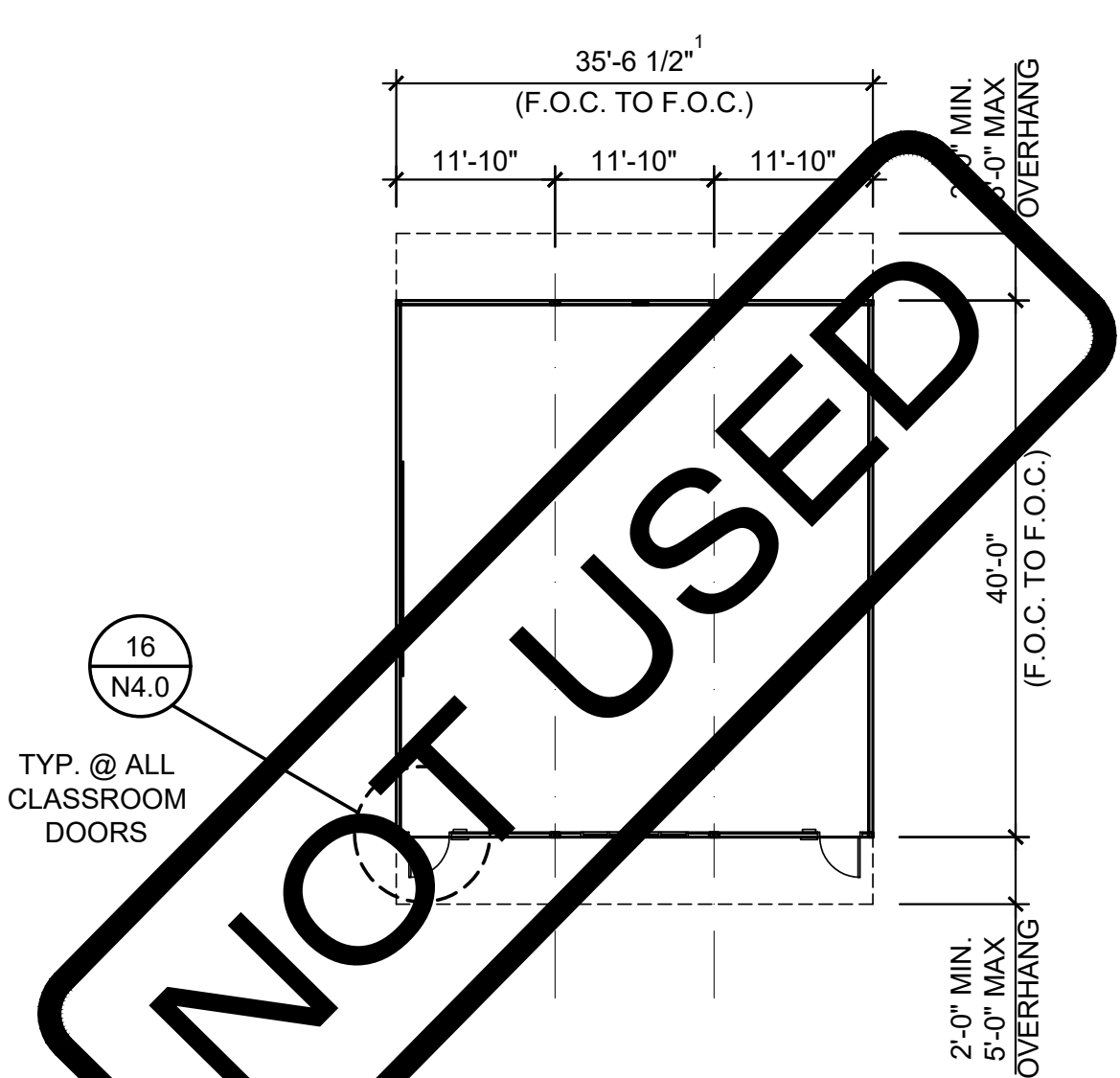
*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE GENERAL NOTES.
 **MINIMUM EGRESS WIDTH SHALL BE 34", OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
 ***THIS APPLIES TO E OCCUPANCY. NEED TO CHECK FOR B OCCUPANCY.
 1. SEE GENERAL NOTE #7.

24' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"

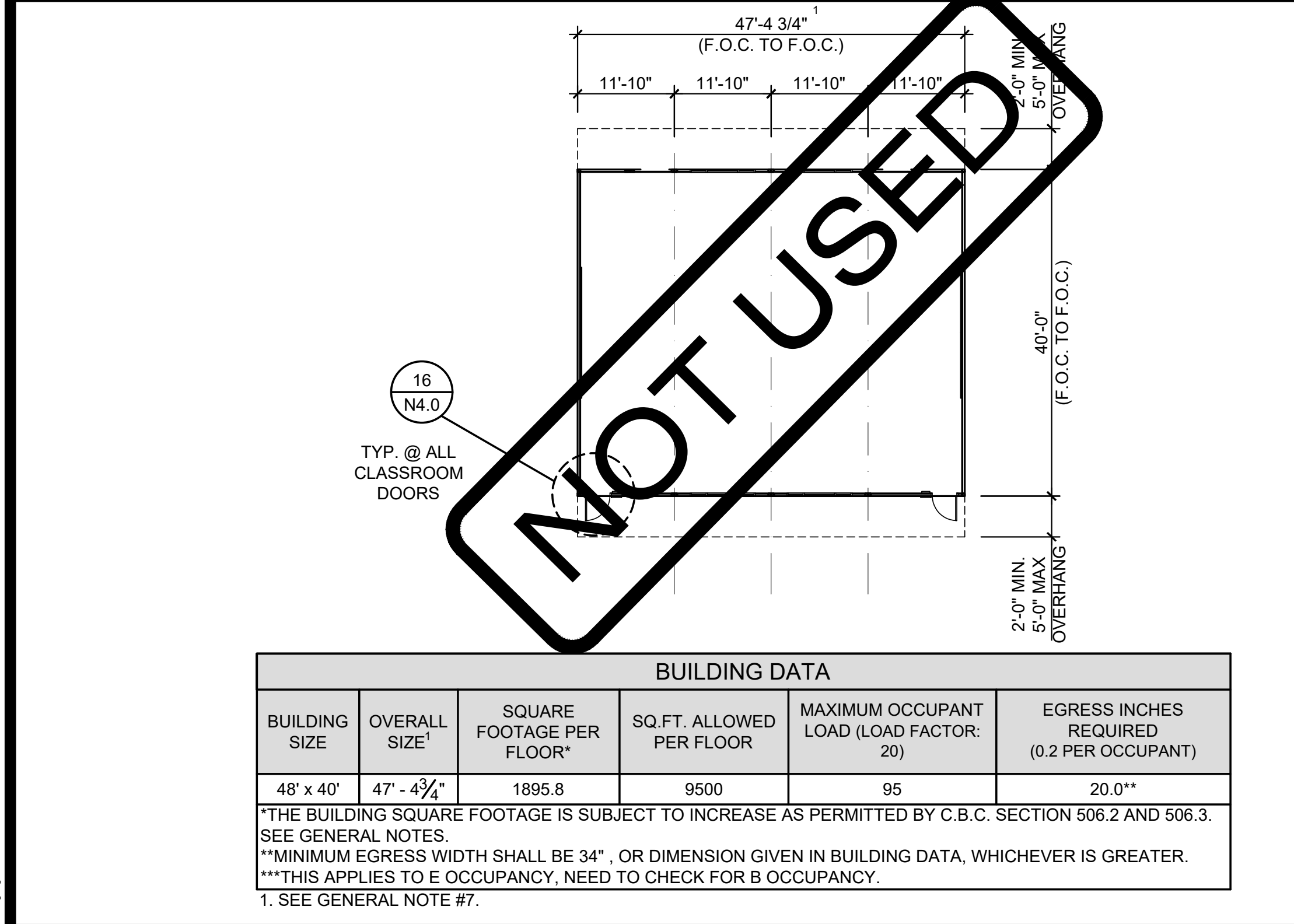
36' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE ¹	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
36' x 40'	35' - 6 1/2"	1421.6	9500	72	14.4"

*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE GENERAL NOTES.
 **MINIMUM EGRESS WIDTH SHALL BE 34", OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
 ***THIS APPLIES TO E OCCUPANCY. NEED TO CHECK FOR B OCCUPANCY.
 1. SEE GENERAL NOTE #7.



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE ¹	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
48' x 40'	47' - 4 3/4"	1895.8	9500	95	20.0"

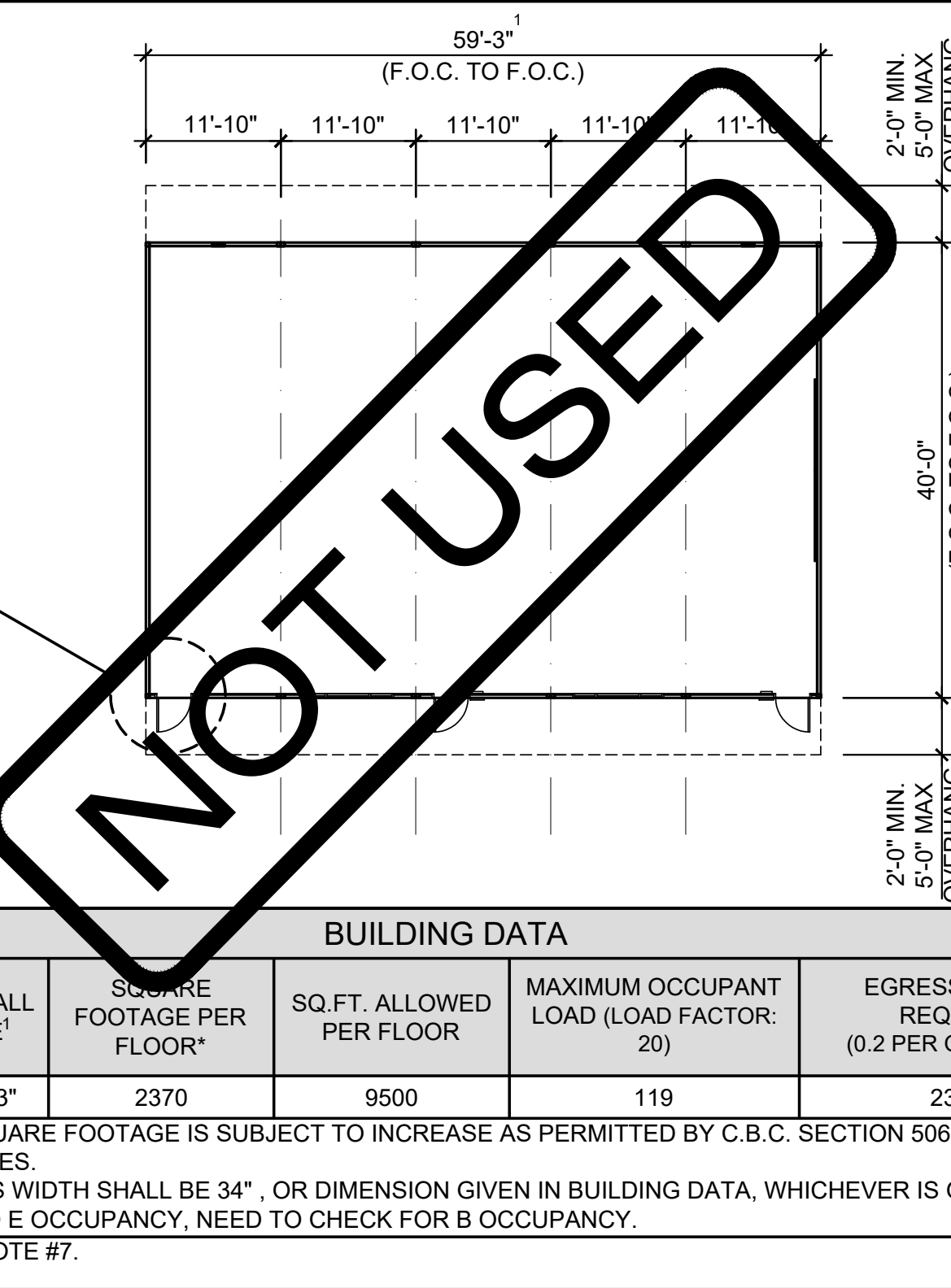
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 **MINIMUM EGRESS WIDTH SHALL BE 34", OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
 ***THIS APPLIES TO E OCCUPANCY. NEED TO CHECK FOR B OCCUPANCY.
 1. SEE GENERAL NOTE #7.

48' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"

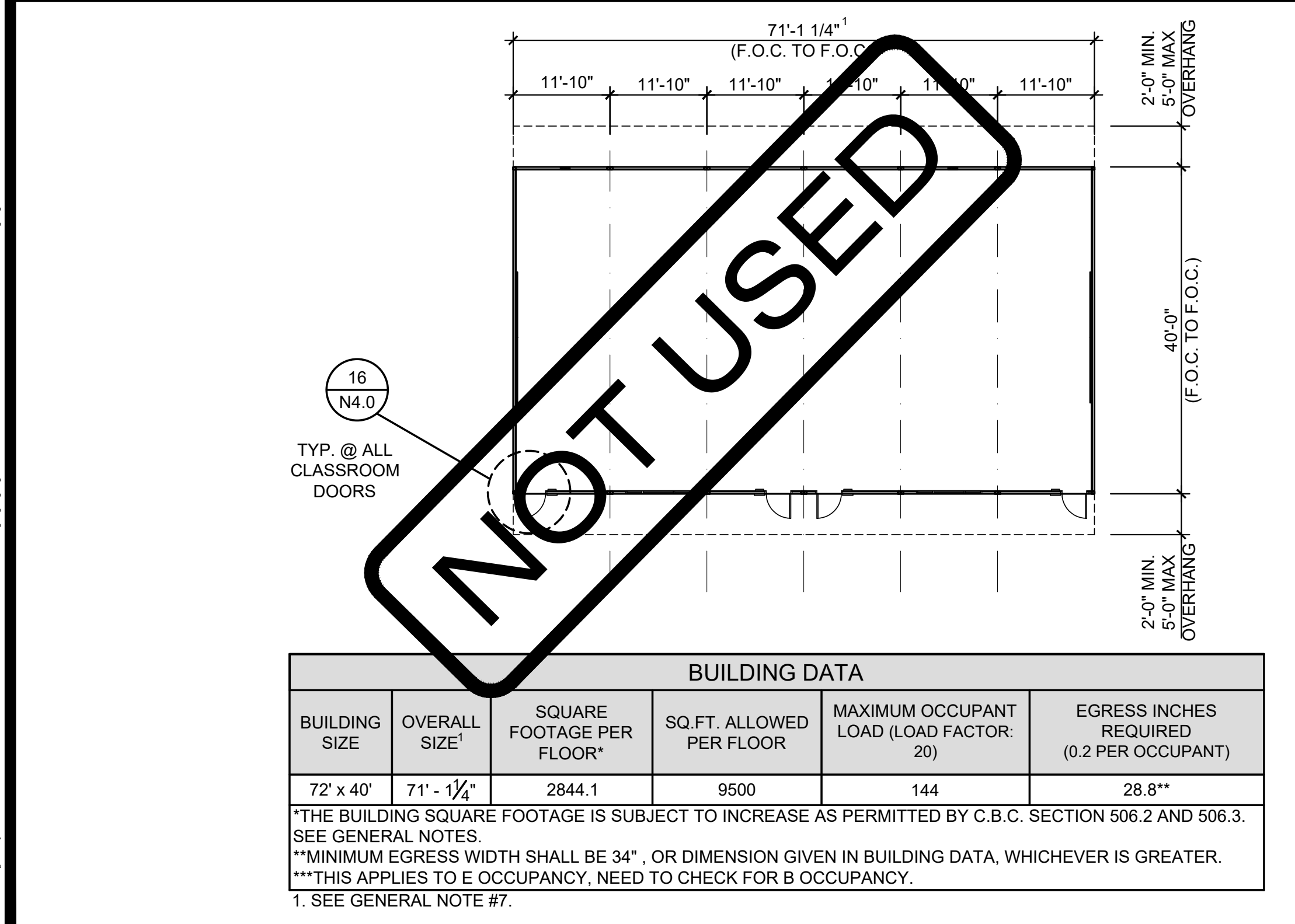
60' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE ¹	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
60' x 40'	59' - 3"	2370	9500	119	23.7"

*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE GENERAL NOTES.
 **MINIMUM EGRESS WIDTH SHALL BE 34", OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
 ***THIS APPLIES TO E OCCUPANCY. NEED TO CHECK FOR B OCCUPANCY.
 1. SEE GENERAL NOTE #7.



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE ¹	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
72' x 40'	71' - 1 1/4"	2844.1	9500	144	28.8"

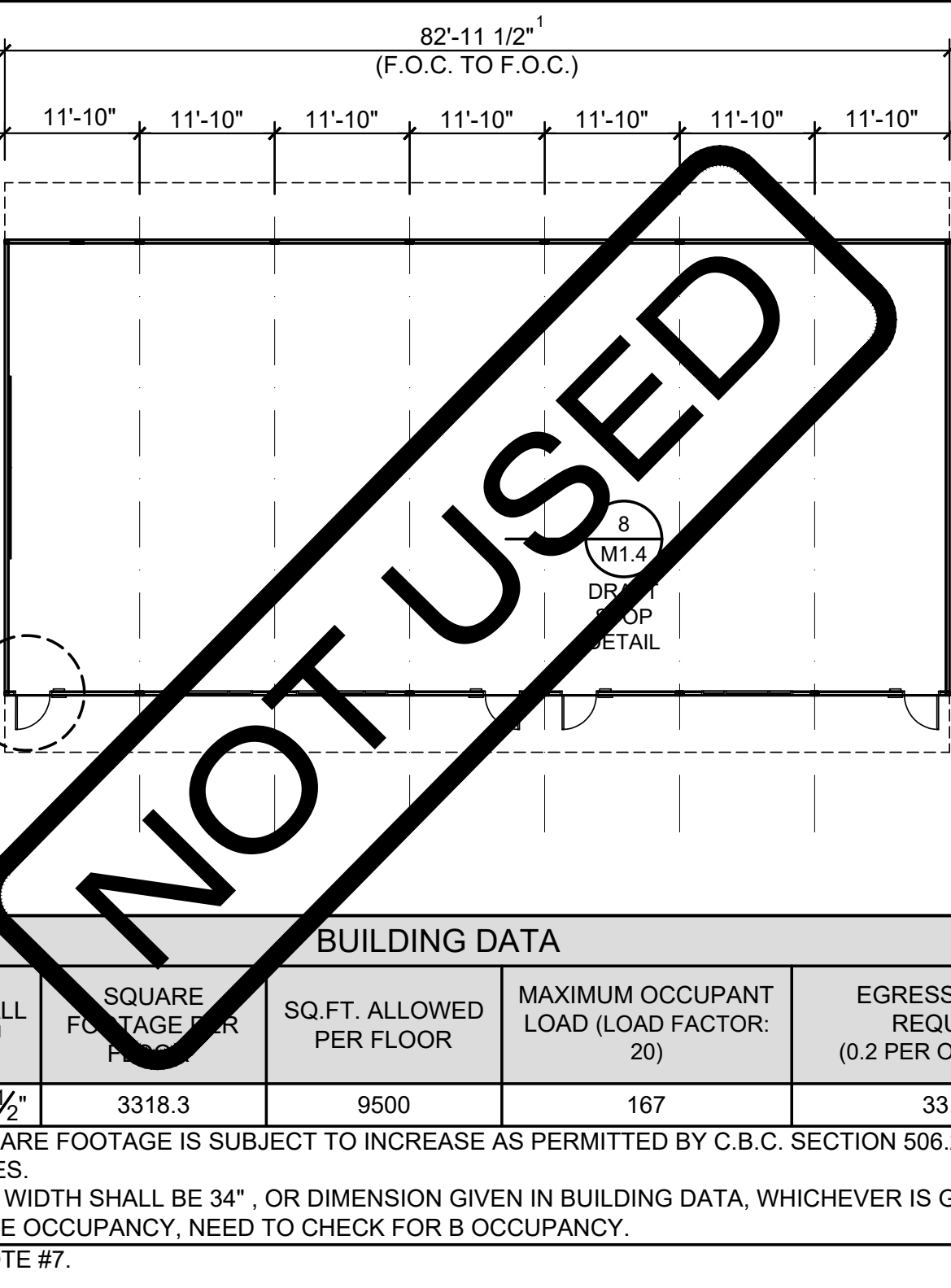
*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE GENERAL NOTES.
 **MINIMUM EGRESS WIDTH SHALL BE 34", OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
 ***THIS APPLIES TO E OCCUPANCY. NEED TO CHECK FOR B OCCUPANCY.
 1. SEE GENERAL NOTE #7.

72' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"

84' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE ¹	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
84' x 40'	82' - 11 1/2"	3318.3	9500	167	33.4"

*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE GENERAL NOTES.
 **MINIMUM EGRESS WIDTH SHALL BE 34", OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
 ***THIS APPLIES TO E OCCUPANCY. NEED TO CHECK FOR B OCCUPANCY.
 1. SEE GENERAL NOTE #7.

72' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"

84' x 40' BUILDING FLOOR PLAN

SCALE: 1/16"=1'-0"

GENERAL NOTES

DSA IR N-1
PRE-CHECK DESIGNS CALGREEN/ENERGY CODE COMPLIANCE REVIEW

Attachment 1
AMS PC 24x40 PC

Performance Runs and Orientation Table

PC Design Review Information
Date of Title 24 Report: 6/30/2021
Model Name and Option: AMS PC 24x40
Total Floor Area: 1,440 SF
HVAC System Type: VSHF
Title 24-19, Part 6, Energy Code
DSA Application: DSA File No: AMS PC 36x40
DSA-1 Submitted Date:

Climate Zone (Reference City)	Azimuth (Front Orientation)	TDV - Proposed Design	TDV - Standard Design	Compliance Margin
14 (Palmdale)	30	301.3	409.2	107.9
	75	306.5	423.0	116.5
	120	303.9	415.8	111.9
	165	290.0	385.9	95.9
	210	304.4	403.6	103.2
	255	308.2	415.6	107.4
15 (Palm Springs-Int'l)	30	340.5	424.0	83.5
	75	351.1	440.3	89.2
	120	347.0	435.6	88.6
	165	331.8	450.4	118.5
	210	358.2	466.1	107.9
	255	349.5	453.5	103.9
16 (Blue Canyon)	30	308.4	368.6	69.2
	75	313.1	379.7	66.6
	120	317.0	384.4	67.4
	165	304.9	343.4	38.4
	210	308.5	373.4	64.9
	255	312.8	368.6	55.8

Comments to DSA: (Explain why this Model Name and Option generates the smallest compliance margin)
Windows increase heating or cooling load due to orientation

DSA IR N-1
PRE-CHECK DESIGNS CALGREEN/ENERGY CODE COMPLIANCE REVIEW

Attachment 1
AMS PC 36x40 PC

Performance Runs and Orientation Table

PC Design Review Information
Date of Title 24 Report: 6/30/2021
Model Name and Option: AMS PC 36x40
Total Floor Area: 960 SF
HVAC System Type: VSHF
Title 24-19, Part 6, Energy Code
DSA Application: DSA File No: AMS PC 36x40
DSA-1 Submitted Date:

Climate Zone (Reference City)	Azimuth (Front Orientation)	TDV - Proposed Design	TDV - Standard Design	Compliance Margin
14 (Palmdale)	30	253.7	278.6	25.0
	75	261.4	285.7	24.3
	120	254.2	279.5	25.3
	165	244.4	222.3	77.8
	210	246.4	222.8	76.4
	255	253.7	231.3	77.6
15 (Palm Springs-Int'l)	30	289.8	325.8	35.7
	75	300.1	334.8	34.5
	120	292.7	328.9	36.2
	165	277.2	309.9	32.7
	210	277.7	313.8	36.1
	255	291.9	308.5	16.6
16 (Blue Canyon)	30	270.5	291.4	20.9
	75	274.6	308.8	32.2
	120	273.1	291.2	18.0
	165	272.0	322.1	50.1
	210	270.9	302.1	31.2
	255	272.8	305.8	33.0

Comments to DSA: (Explain why this Model Name and Option generates the smallest compliance margin)
Windows increase heating or cooling load due to orientation

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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Calculation Date/Time: 13:35, Wed, Jun 30, 2021

A. GENERAL INFORMATION

Item	Value	Standard	Version
1 Project Location (City)	Palmdale	8	Compliance2019
2 CA Zip Code	93510	9	CECC-Com 2019 1.3.1
3 Climate Zone	14	10	WASHNET_23ARC_C21010-epw
4 Total Unconditioned Floor Area in Scope	960 ft ²	11	Building Orientation (deg)
5 Total Unconditioned Floor Area	0 ft ²	12	Permitted Scope of Work
6 Total # of Stories (Habitable Above Grade)	3	13	Building Type(s)
7 Total # of Dwelling Units	0	14	Use Type

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 passively if within permit application.

Component	Performance	Compliance
Envelope (see Table G)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
Mechanical (see Table H)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
Domestic Hot Water (see Table I)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
Lighting (Indoor Conditioned, see Table J)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
Solar Thermal Water Heating (see Table L)	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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Calculation Date/Time: 13:35, Wed, Jun 30, 2021

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kWh/ft²-yr)

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)
Space Heating	34.18	66.00	-31.82
Space Cooling	135.74	140.11	-4.39
Indoor Fans	170.46	173.46	-3.00
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	24.10	24.10	--
Indoor Lighting	21.37	6.45	14.92
ENERGY STANDARDS COMPLIANCE TOTAL	385.88	290.01	95.87 (24.8%)

C2. RESULTS FOR ABOVE CODE QUALIFICATIONS*

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)
Receptacles	76.26	76.26	--
Process	--	--	--
Process Motors	--	--	--
Compliance Totals Plus Miscellaneous Components	462.14	366.27	95.86 (20.7%)

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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C3. ENERGY USE SUMMARY

Energy Component	Standard Design Size (MMBtu)	Proposed Design Size (MMBtu)	Margin (MMBtu)	Standard Design Size (MMBtu)	Proposed Design Size (MMBtu)	Margin (MMBtu)
Space Heating	2.8	5.6	-2.8	--	--	--
Space Cooling	3.3	3.2	0.1	--	--	--
Indoor Fans	5.5	5.7	-0.2	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	0.7	0.7	0.0	12.8	12.8	0.0
Indoor Lighting	0.7	0.3	0.4	--	--	--
Compliance Total	9.3	7.8	1.5	29.0	12.8	16.2
Receptacles	2.55	2.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Use	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	11.8	10.3	1.5	29.0	12.8	16.2

D. EXCEPTIONAL CONDITIONS
This building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. MEAS VENTILATION
This Section Does Not Apply

F. ADDITIONAL REMARKS

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing	240 ft ²	80 ft ²	33.3%
East-Facing	420 ft ²	0 ft ²	0.0%
South-Facing	240 ft ²	0 ft ²	0.0%
West-Facing	420 ft ²	0 ft ²	0.0%
Total	1,320 ft²	160 ft²	12.1%

Notes:
North-Facing is oriented to within 45 degrees of true north, including 45°/0°/0° east of north (NE), but excluding 45°/0°/0° west of north (NW).
East-Facing is oriented to within 45 degrees of true east, including 45°/0°/0° south of east (SE), but excluding 45°/0°/0° north of east (NE).
South-Facing is oriented to within 45 degrees of true south, including 45°/0°/0° west of south (SW), but excluding 45°/0°/0° east of south (SE).
West-Facing is oriented to within 45 degrees of true west, including 45°/0°/0° north of west (NW), but excluding 45°/0°/0° south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft ²)	Framing Type	Cavity R-Value	Construction R-Value	Units	Value	Description of Assembly Layers	U-Factor
Ext Roof	Roof	960	Metal	19	5	U-Factor	0.053	Metal Standing Seam - 12in. R-19 Metal Framed wall, 2in. OC, 2.5in. R-19 Air-Road - 3/2 in. Acoustic Tile - 3/8 in.	N
Ext Wall	Exterior Wall	1320	Metal	13	5	U-Factor	0.098	Wood Siding - 1/2 in. Vapor permeable foil - 1/8 in. Compliance Insulation R-6.00 Metal Framed wall, 2in. OC, 1.5in. R-13 Gypsum Board - 1/2 in.	N

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Fenestration Assembly Name / Tag ID	Fenestration Type / Product / Frame Type	Certification Method	Assembly Method	Area ft ²	Overall U-Factor	Overall SHGC	Overall VT	Description of Assembly Layers	U-Factor
Windows	Vertical Glazing Fixed/Window	Default Performance	Manufactured	160	0.71	0.60	0.77	Electrical Power Distribution 510.11	N
Tubular Skylight	Skylight Fixed/Window	NFRC Rated	Manufactured	35	0.51	0.22	0.80	N/A	N

G6. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-Factor	Status
Door	0.700	N

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Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft ²)	Framing Type	Cavity R-Value	Construction R-Value	Units	Value	Description of Assembly Layers	U-Factor
Floor over Crawlspace	Exterior Floor	960	NA	0	NA	U-Factor	0.104	Vertical Groove Space Concrete - 140 ft ² x 2 in. Carpet - 3.0 in.	N

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-Factor	Status
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Fenestration Assembly Name / Tag ID	Fenestration Type / Product / Frame Type	Certification Method	Assembly Method	Area ft ²	Overall U-Factor	Overall SHGC	Overall VT	Description of Assembly Layers	U-Factor
Windows	Vertical Glazing Fixed/Window	Default Performance	Manufactured	160	0.71	0.60	0.77	Electrical Power Distribution 510.11	N
Tubular Skylight	Skylight Fixed/Window	NFRC Rated	Manufactured	35	0.51	0.22	0.80	N/A	N

G6. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-Factor	Status
Door	0.700	N

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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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
Equipment Name	Equipment Type	Qty	Total Heating Output (MMBtu/h)	Size Heat Output (MMBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (MMBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	U-Factor
FC-1	SPHP (Packaged/Phase)	1	30	13	COP	3.30	41	EER	11.00	Not Economizer	N

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
Fan or Item Tag	System Type	Design CA	Supply Fan	Return Fan	Control	CFM	BHP	Watts	Control	Economizer Type (if present)	U-Factor	U-Factor
FC-1	SPHP	365	335	0.339	278.0	Constant Volume	NA	NA	NA	Not Economizer	N	N

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	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.14(f)	Evaporative Cooling	Heat Recovery	Other Controls
FC-1	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
Zone Name	Ventilation Function	# of rooms	# of bedrooms	Supply CA CM	Exhaust CM	Conditioned Area (ft ²)	DCV or Occupant Sensor Controls, or both	U-Factor
Zn F1 Classroom	Education - Classrooms (per §140.14)	0	24.00	0	365	0	960	NA

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtu/h)	Design	Min. Ratio	BHP	Watts	Cycles	ECM Motor	U-Factor	U-Factor
FC-1_TRM	Zn F1 Classroom	Uncontrolled	NA	NA	1315	NA	0.00	NA	NA	NA	NA

H8. EVAPORATIVE COOLER SUMMARY
This Section Does Not Apply

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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H9. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type	Conditioned Floor Area (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Function(s) (Watts)	Tolerated Method (Watts)
Classrooms, Lecture, Training, Vocational Areas	960	360	0	0	0
Building Totals:	960	360	0	0	0

H10. INDOOR CONDITIONED LIGHTING SCHEDULE

1	2	3	4	5	6
Name or Item Tag	Complete Luminaire Description (e.g., 8-bump fluorescent troffer, F22E, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
2x4_LED	2x4-LED	45	According to §140.14(f)	8	360

H11. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

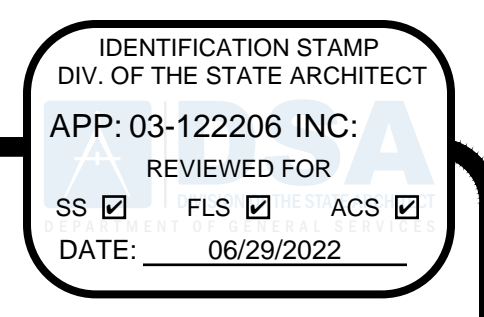
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.5.4)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Control Credits (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00	2x4-LED	360.0	8	360	0

Project Name: AMS PC 24x40
Project Address: Palmdale 93510
Input File Name: AMS 24x40 for DSA-C214(E)cb039

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Calculation Date/Time: 13:35, Wed, Jun 30, 2021

H6. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

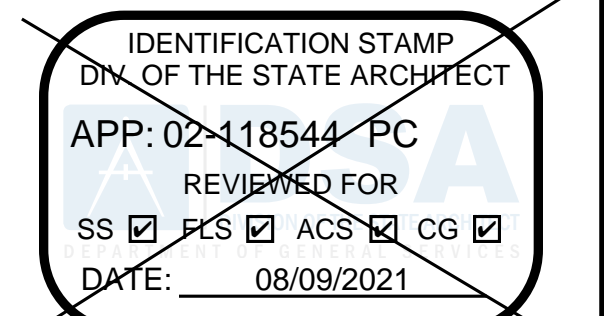
1	2	3	4	5	6	7	8	9	10
Building Level Controls	Mandatory Demand Response §130.13(c)	Shut-Off Controls §130.13(c)	Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)	Required	Required	Required	Required	Required	NA
Area Level Controls	Area Category Primary Function Area	Area Controls	Multi-Level Controls	Shut-Off Controls	Primary Daylighting	Secondary Daylighting	U-Factor	U-Factor	U-Factor
Classrooms Skylight Zn	Classroom, Lecture, Training, Vocational Areas	130.1(a)	130.1(b)	130.1(c)	130.1(d)	140.5(d)	NA	NA</	



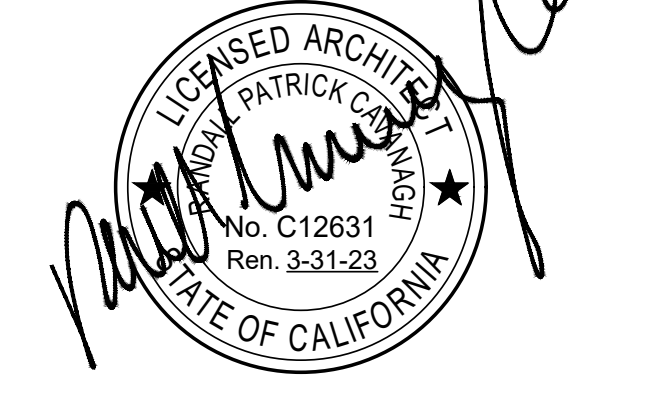
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PRE-CHECKED STATE
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(Low Seismic)
FORM

SITE SPECIFIC PROJECT NAME



2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
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SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE: ENERGY CALCULATIONS
SHEET NUMBER:

EN.2

Table with project information: Project Name: AMS-PC-2640, Project Address: Palm Springs, Input File Name: AMS-2640-for-DSA-C214(6).cld(19), Page 11 of 13

Table with project information: Project Name: AMS-PC-2640, Project Address: Palm Springs, Input File Name: AMS-2640-for-DSA-C214(6).cld(19), Page 12 of 13

Table with project information: Project Name: AMS-PC-2640, Project Address: Palm Springs, Input File Name: AMS-2640-for-DSA-C214(6).cld(19), Page 13 of 13

Table with project information: Project Name: AMS-PC-2640, Project Address: Palm Springs, Input File Name: AMS-2640-for-DSA-C214(7).cld(19), Page 1 of 15

Table: M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE. Includes sections for Building Component, Form/Title, and Mechanical components.

Table: N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION. Includes sections for Building Component, Form/Title, and Mechanical components.

Table: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT. Includes sections for RESPONSIBLE PERSON'S DECLARATION STATEMENT and RESPONSIBLE DESIGNER'S DECLARATION STATEMENT.

Table: A. GENERAL INFORMATION. Includes sections for B. PROJECT SUMMARY and B. PERFORMANCE.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

Table: C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDDV Energy Use, kWh/ft²-yr). Includes Energy Component, Standard Design Size, Proposed Design, and Compliance Margin.

Table: C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS. Includes Miscellaneous Energy Component, Standard Design, Proposed Design, and Compliance Margin.

Table: G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only). Includes Surface Name, Surface Type, Area, and U-Factor.

Table: G3. OPaque SURFACE ASSEMBLY SUMMARY. Includes Surface Name, Surface Type, Area, and U-Factor.

Table: C3. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDDV Energy Use, kWh/ft²-yr). Includes Energy Component, Standard Design Size, Proposed Design, and Compliance Margin.

Table: C4. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS. Includes Miscellaneous Energy Component, Standard Design, Proposed Design, and Compliance Margin.

Table: G2. ENVELOPE GENERAL INFORMATION (unconditioned spaces only). Includes Surface Name, Surface Type, Area, and U-Factor.

Table: G4. OPaque DOOR SUMMARY. Includes Assembly Name, Overall U-Factor, and Overall R-Value.

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

Table: H1. DRY SYSTEM EQUIPMENT (Furnaces, air handling units, heat pumps, VRF, economizers etc.). Includes Equipment Name, Equipment Type, Qty, and Efficiency.

Table: H2. FAN SYSTEMS SUMMARY. Includes System Name, System Type, Design OA, and Return Fan.

Table: H3. EXHAUST FAN SUMMARY. Includes System Name, System Type, Design OA, and Return Fan.

Table: H4. Wet System Equipment (boilers, chillers, cooling towers, etc.). Includes System Name, System Type, Design OA, and Return Fan.

Table: H5. SYSTEM SPECIAL FEATURES. Includes System Name, Optimum Start, Window Interlocks, and Evaporative Cooling.

Table: H6. MECHANICAL VENTILATION. Includes Zone Name, Ventilation Function, # of bedrooms, and Supply OA CFM.

Table: H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY. Includes System ID, Zone Name, System Type, and Fan.

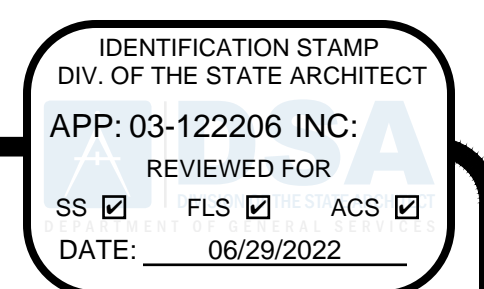
Table: H8. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS. Includes Building Level Controls, Area Level Controls, and Area Description.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PPF-01-E-04162021-6384

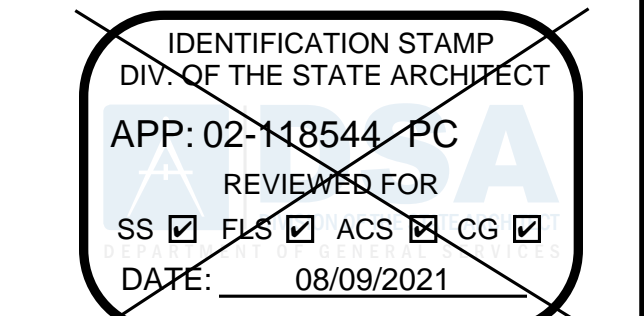


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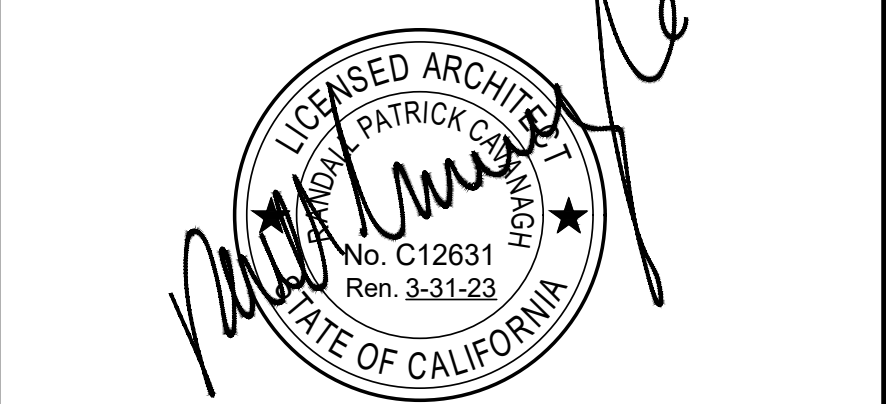
PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)



SITE SPECIFIC PROJECT NAME



2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
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REVISIONS
DRAWN BY: AS NOTED
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE: ENERGY CALCULATIONS
SHEET NUMBER: EN.3

Project Name: AMS-PC-26400, Project Address: Palm Springs-Int 92240, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

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.

Table with 2 columns: Building Component, Form/Title. Includes Mechanical, Envelope, and Indoor Lighting.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Palm Springs-Int 92240, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

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.

Table with 2 columns: Building Component, Form/Title. Includes Envelope, Indoor Lighting, and Mechanical.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Palm Springs-Int 92240, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance.

Table with 2 columns: Building Component, Form/Title. Includes Mechanical.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Palm Springs-Int 92240, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Table with 2 columns: Responsible Designer Name, Title, License #. Includes Envelope Designer, Lighting Designer, and Mechanical Designer.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

A. GENERAL INFORMATION
1 Project Location (GIS), 2 CA Zip Code, 3 Climate Zone, 4 Total Conditioned Floor Area (Sched), 5 Total Unconditioned Floor Area, 6 Total # of Stories (Inhabitable Above Grade), 7 Total # of Sleeping Units

Table with 2 columns: Building Component, Compliance Status. Includes Envelope, Mechanical, and Indoor Lighting.

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.

Table with 2 columns: Building Components Complying via Performance, Building Components Complying Prescriptively.

Table with 2 columns: Envelope (see Table G), Mechanical (see Table H), Domestic Hot Water (see Table I), Lighting (Indoor Conditioned, see Table K), Solar Thermal Water Heating (see Table J).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

C. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDD Energy Use, kWh/ft²-yr)

Table with 3 columns: Energy Component, Standard Design (TDV), Proposed Design (TDV), Compliance Margin (TDV%).

ENERGY STANDARDS COMPLIANCE TOTAL: 343.36, 304.94, 38.42 (11.2%)

Notes: The number in parenthesis following the Compliance Margin in column 4 represents the Percent Better than Standard.

C3. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS
This project is pursuing California Tier 1. This project is pursuing California Tier 2.

Table with 4 columns: Miscellaneous Energy Component, Standard Design (TDV), Proposed Design (TDV), Compliance Margin (TDV%).

COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS: 433.68, 377.26, 38.4 (9.2%)

Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

C4. ENERGY USE SUMMARY

Table with 6 columns: Energy Component, Standard Design Site (MWh), Proposed Design Site (MWh), Margin (MWh), Standard Design Site (MWh), Proposed Design Site (MWh), Margin (MWh).

COMPLIANCE TOTAL: 10.7, 11.2, -0.5, 44.5, 13.6, 30.9

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. AIRS VERIFICATION
This Section Does Not Apply.

F. ADDITIONAL REMARKS

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Table with 4 columns: 1, 2, 3, 4. Includes Opaque Surfaces & Orientation, Total Gross Surface Area (ft²), Total Fenestration Area (ft²), Window to Wall Ratio (%).

Notes: 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). 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). 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). West-facing is oriented to within 45 degrees of true west, including 45°00'00" north of west (NW), but excluding 45°00'00" south of west (SW).

G3. OPaque SURFACE ASSEMBLY SUMMARY

Table with 10 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. Includes Surface Name, Surface Type, Area (ft²), Framing Type, Frame R-Value, Continues R-Value, Units, Value, Description of Assembly Layers.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

G3. OPaque SURFACE ASSEMBLY SUMMARY

Table with 10 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. Includes Surface Name, Surface Type, Area (ft²), Framing Type, Frame R-Value, Continues R-Value, Units, Value, Description of Assembly Layers.

Notes: R-Value, U-Factor, A-weighted, f-factor, g-factor.

G4. OPaque DOOR SUMMARY

Table with 3 columns: 1, 2, 3. Includes Assembly Name, Overall U-factor, Status.

G5. FENESTRATION ASSEMBLY SUMMARY

Table with 9 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9. Includes Fenestration Assembly Name / Tag or I.D., Fenestration Type / Product Type / Frame Type, Certification Method, Assembly Method, Area (ft²), Overall U-Factor, Overall SHGC, Overall VT, Overall U-Factor.

Notes: U-Factor, SHGC, VT, A-weighted, f-factor, g-factor.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers, etc.)

Table with 12 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. Includes Equipment Name, Equipment Type, Qty, Total Heating Output (MBtu/h), Single Heat Output (MBtu/h), Efficiency Unit, Efficiency Unit, Return Fan, Efficiency Unit, Efficiency Unit, Efficiency Unit, Efficiency Unit, Efficiency Unit.

Notes: R-Value, U-Factor, A-weighted, f-factor, g-factor.

H2. FAN SYSTEMS SUMMARY

Table with 13 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13. Includes Name or Item Tag, System Type, Design CM, CFM, BHP, Watts, Control, CFM, BHP, Watts, Control, Economizer Type (if present).

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

Table with 6 columns: 1, 2, 3, 4, 5, 6. Includes System Name, Optimum Start, Window Heatlosses per \$440 (kJ), No, No Exhaustive Cooler, No Heat Recovery, No DCV Controls, No DDC, No Economizer, No Supply Air Temp. Control.

Notes: U-Factor, SHGC, VT, A-weighted, f-factor, g-factor.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

H6. MECHANICAL VENTILATION

Table with 9 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9. Includes Zone Name, Ventilation Function, # total rooms, # of bedrooms, Supply OA CFM, Exhaust CFM, Conditioned Area (sf), DCV or Occupant Sensor Control, or both.

Notes: U-Factor, SHGC, VT, A-weighted, f-factor, g-factor.

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

Table with 12 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. Includes System ID, Zone Name, System Type, Rated Capacity (Btu/h), Heating, Cooling, Design, Min., Max. Ratio, BHP, Watts, Cycles, ECM Motor.

H8. EVAPORATIVE COOLER SUMMARY
This Section Does Not Apply.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

Project Name: AMS-PC-26400, Project Address: Blue Canyon 95715, Input File Name: AMS-26400-for-DSA-C216(6).cxd(6)

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

Table with 6 columns: 1, 2, 3, 4, 5, 6. Includes Occupancy Type, Conditioned Floor Area (ft²), Installed Lighting Power (Watts), Lighting Control Features (Watts), Area Category Footcandle Allowance, Balanced Method (Watts).

Notes: U-Factor, SHGC, VT, A-weighted, f-factor, g-factor.

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Table with 6 columns: 1, 2, 3, 4, 5, 6. Includes Name or Item Tag, Complete Luminaire Description (i.e., 3-bump fluorescent troffer, 142T, one dimmable electronic ballast), Watts per luminaire, How Wattage is Determined, Total Number Luminaires, Installed Watts.

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Table with 9 columns: 1, 2, 3, 4, 5, 6, 7, 8, 9. Includes Area Description, Primary Function Area (must meet requirements of Table 140.6-B), Type of Lighting Control, Power Adjustment Factor (PAF), Luminaire Name or Item Tag, Watts per Luminaire, # of Luminaires, Lighting Control Credit (Watts), Control Credit (Watts).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCPP-01-E-04162021-6384

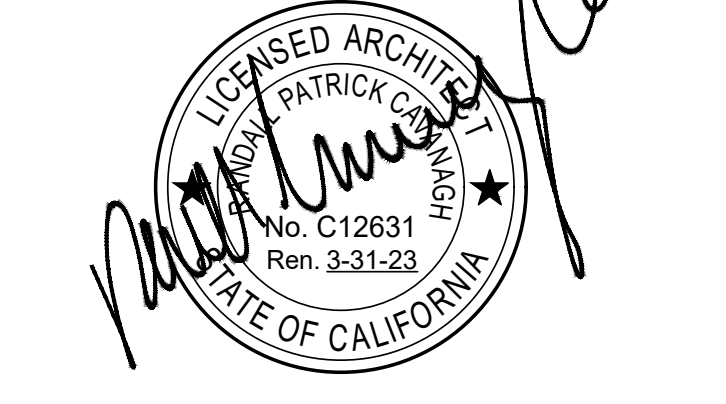


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
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SHEET TITLE:
ENERGY CALCULATIONS
SHEET NUMBER:

EN.4

Project Name:	AMS PC 2640	NRCPP-01-E	Page 9 of 13
Project Address:	Blue Canyon 97315	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls	
1	2
Mandatory Demand Response §110.12(c)	Shut Off Controls §130.1(c)
NA	Required

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)									
4	5	6	7	8	9	10			
Area Description	Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary Daylighting §130.1(d)	Secondary Daylighting §140.5(d)			
Classrooms Skylight Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	Required	NA			

Project Name:	AMS PC 2640	NRCPP-01-E	Page 10 of 13
Project Address:	Blue Canyon 97315	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

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 must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/files/e2012standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

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
Indoor Lighting	NRCI-LI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance

Project Name:	AMS PC 2640	NRCPP-01-E	Page 11 of 13
Project Address:	Blue Canyon 97315	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Building Component	Form/Title
Envelope	NRCI-ENV-02-F - NRCI label verification for fenestration
Indoor Lighting	NRCI-LI-02-A - Occupancy Sensors and Automatic Time Switch Controls
Mechanical	NRCI-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-2-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance if applicable after testing activities complete. NRCI-MCH-03-A Constant Volume Single Zone HVAC NRCI-MCH-10 Occupancy Sensor Controls

Project Name:	AMS PC 2640	NRCPP-01-E	Page 12 of 13
Project Address:	Blue Canyon 97315	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

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Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: NRCPP-01-E-04162021-0384 | Report Generated at: 2021-06-30 13:23:52

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: NRCPP-01-E-04162021-0384 | Report Generated at: 2021-06-30 13:23:52

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Project Name:	AMS PC 2640	NRCPP-01-E	Page 13 of 13
Project Address:	Blue Canyon 97315	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, the undersigned, as the Declaration of Compliance, do hereby certify that the information provided in this Certificate of Compliance is true and correct.

Documentation Author Name: Hans Marston, CA, LEED AP BD+C
Signature: [Signature]
Signature Date: 2021-06-30
Address: 1150 Street #409
City/State/Zip: San Diego CA 92101
Phone: (619) 573-6374

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I, the undersigned, under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- 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).
- The energy features and performance specifications, materials, components, and manufacturer 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.
- 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.
- I will ensure that a complete and 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 projects. I understand that a complete copy of this Certificate of Compliance is required to be included with the documentation the building permits to the building owner or occupants.

Responsible Designer Name: Randall P Cavanaugh
Company: American Modular Systems | Gen7 Schools
Address: 787 Spreckels Avenue
City/State/Zip: Manteca CA 95336
Phone: 209-825-1921

Signature: [Signature]
Title: Architect
License #: C12631

Project Name:	AMS PC 2640	NRCPP-01-E	Page 1 of 13
Project Address:	Falmouth 93510	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

A. GENERAL INFORMATION

1	2	3	4	5	6	7	8
Project Location (City)	Falmouth	Standards Version	Compliance 2019				
CA Zip Code	93510	Compliance Software (version)	CECC-Com 2019 1.3				
Climate Zone	14	Weather File	WALDMLE_223820_C2010.gpw				
Total Conditioned Floor Area in Scope	1,440 m ²	Building Orientation (deg)	81.75 deg				
Total Unconditioned Floor Area	0 m ²	Normalized Slope of Work	None/Complete				
Total # of Stories (Habitable Above Grade)	1	Building Type(s)	Nonresidential				
Total # of dwelling units	0	Gas Type	Natural Gas				

B. PROJECT SUMMARY

Note: Indicators: S=Yes # shows which building components are included in the performance calculation; I=Indicated as not included; the project must show compliance prescriptively if within permit application.

Envelope (see Table C)	Mechanical (see Table H)	Domestic Hot Water (see Table I)	Lighting (Indoor Conditioned, see Table J)	Solar Thermal Water Heating (see Table K)
<input checked="" type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	<input checked="" type="checkbox"/> Performance <input checked="" type="checkbox"/> Covered Process: Computer Rooms <input checked="" type="checkbox"/> Not Included	<input checked="" type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	<input checked="" type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	<input checked="" type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included

Project Name:	AMS PC 2640	NRCPP-01-E	Page 2 of 13
Project Address:	Falmouth 93510	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDW Energy Use, kWh/m²-yr)

COMPLIES			
Energy Component	Standard Design (TDW)	Proposed Design (TDW)	Compliance Margin (TDW)
Space Heating	23.54	17.86	44.26
Space Cooling	102.17	138.42	34.05
Indoor Fans	119.89	28.78	93.07
Heat Rejection	-	-	-
Pumps & Misc.	-	-	-
Domestic Hot Water	20.04	20.04	-
Indoor Lighting	19.88	8.38	11.60
ENERGY STANDARDS COMPLIANCE TOTAL	285.72	261.38	24.34 (8.5%)

C2. RESULTS FOR "ABOVE CODE" QUALIFICATIONS*

Miscellaneous Energy Component	Standard Design (TDW)	Proposed Design (TDW)	Compliance Margin (TDW)
Receptacle	76.36	76.36	-
Process	-	-	-
Other Use	-	-	-
Process Motors	-	-	-
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	362.08	337.64	24.3 (6.7%)

Project Name:	AMS PC 2640	NRCPP-01-E	Page 3 of 13
Project Address:	Falmouth 93510	Calculation Date/Time:	13.21, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)
Space Heating	0	3.9	-	16.6	0	16.6
Space Cooling	3.8	4.6	-0.8	-	-	-
Indoor Fans	5.4	1.3	4.1	-	-	-
Heat Rejection	-	-	-	-	-	-
Pumps & Misc.	-	-	-	36.0	36.0	0.0
Domestic Hot Water	-	0.4	0.5	-	-	-
Indoor Lighting	0.9	0.4	0.5	-	-	-
Compliance Total	9.8	10.2	-0.4	32.6	16.0	16.6
Receptacle	3.8	3.8	0.0	-	-	-
Process	-	-	-	-	-	-
Other Use	-	-	-	-	-	-
Process Motors	-	-	-	-	-	-
TOTAL	13.6	14.0	-0.4	32.6	16.0	16.6

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

F. ADDITIONAL REMARKS

Project Name:	AMS PC 2640	NRCPP-01-E	Page 4 of 13
Project Address:	Falmouth 93510	Calculation Date/Time:	13.23, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Oppage Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing	420 ft ²	0 ft ²	0.0%
East-Facing	360 ft ²	320 ft ²	33.3%
South-Facing	420 ft ²	0 ft ²	0.0%
West-Facing	360 ft ²	40 ft ²	22.2%
Total	1,560 ft²	200 ft²	12.8%

Roof: 1,440 ft² 23% 03.0%

Notes:
*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).
*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).
*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).
*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).

Project Name:	AMS PC 2640	NRCPP-01-E	Page 5 of 13
Project Address:	Falmouth 93510	Calculation Date/Time:	13.23, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Surface Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	U-Factor
Floor over Crawlspace	Exterior/Floor	1440	NA	0	NA	U-Factor	0.09	Vertical Crawlspace Concrete: 142 R-Value: 2 in. Gypsum: 3/8 in.	N

Notes: *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).
*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).
*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).
*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).

Project Name:	AMS PC 2640	NRCPP-01-E	Page 6 of 13
Project Address:	Falmouth 93510	Calculation Date/Time:	13.23, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

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
Equipment Name	Equipment Type	Qty	Total Heating Output (MBtu/h)	Supp Heat Output (MBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (MBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	U-Factor
FC-1	SPVHP (Packaged/Unit)	1	43	13	COP	3.30	48	EER	11.00	NoEconomizer	N

Notes: *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).
*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).
*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).
*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).

Project Name:	AMS PC 2640	NRCPP-01-E	Page 7 of 13
Project Address:	Falmouth 93510	Calculation Date/Time:	13.23, Wed, Jun 30, 2021
Input File Name:	AMS 2640 for OSA-C214(2).cbf(9)		

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9	
Zone Name	Mechanical Ventilation	Supply OA CFM	Exhaust CFM	Conditioned Area (ft ²)	DCV or Occupant Sensor Controls or both				
2x F3 Classroom	Ventilation Function: Education-Classrooms (ages 9-18)	0	57	0	1440	NA			

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12		
System ID	Zone Name	System Type	Rated Capacity (kBtu/h)	Heating	Cooling	Design	Arflow (cfm)	Min.	Max. Ratio	BSP	Watts	Cycles	ECM Motor
FC-1_TRM	2x F3 Classroom	Uncontrolled	NA	NA	1650	NA	NA	0.00	NA	NA	NA	NA	NA

H8. EVAPORATIVE COOLER SUMMARY

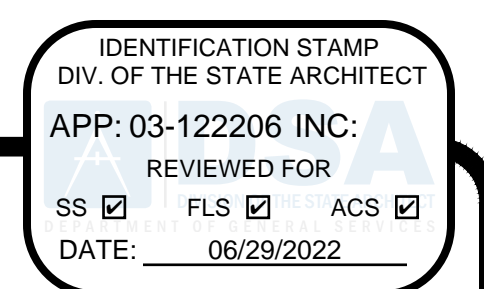
This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: NRCPP-01-E-04162021-0384 | Report Generated at: 2021-06-30 13:23:52

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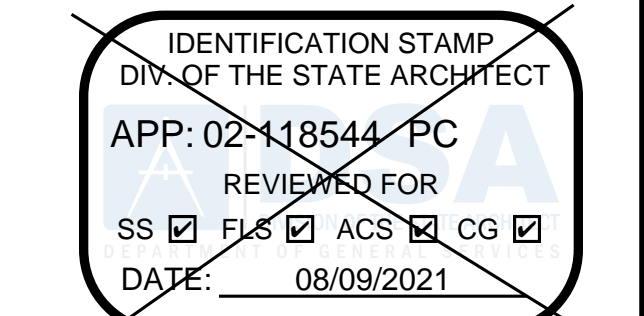


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)



SITE SPECIFIC PROJECT NAME



2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
DRAWN BY: AS NOTED
SCALE: AS NOTED
DATE: MM/DD/YYYY
PROJECT NO: XXXX-20
SHEET TITLE: ENERGY CALCULATIONS
SHEET NUMBER: EN.5

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, K1. INDOOR CONDITIONED LIGHTING GENERAL INFO table with columns for Occupancy Type, Conditional Floor Area, Installed Lighting Power, Lighting Control Credits, and Additional Controls.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS table with columns for Building Level, Area Level, and Area Description.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION table with columns for Building Component and Form/Title.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE table with columns for Building Component and Form/Title.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION table with columns for Building Component and Form/Title.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, DOCUMENTATION AUTHOR'S DECLARATION STATEMENT and RESPONSIBLE PERSON'S DECLARATION STATEMENT.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, A. GENERAL INFORMATION and B. PROJECT SUMMARY table.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS and C2. RESULTS FOR ABOVE CODE QUALIFICATIONS table.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, C3. ENERGY USE SUMMARY table with columns for Energy Component, Standard Design Site, Proposed Design Site, and Margin.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, G1. ENVELOPE GENERAL INFORMATION and G3. OPaque SURFACE ASSEMBLY SUMMARY table.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, G4. DRAPe DOOR SUMMARY and G5. FENESTRATION ASSEMBLY SUMMARY table.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance, Report Version: NRC-PPF-01-E-0416201-6384

Project Name: AMS PC 3640, Project Address: Palm Springs, CA, Input File Name: AMS 3640 for OSA-C21421.cbd19, H1. DRY SYSTEM EQUIPMENT, H2. FAN SYSTEMS SUMMARY, H3. EXHAUST FAN SUMMARY, H4. Wet System Equipment, and H5. SYSTEM SPECIAL FEATURES table.

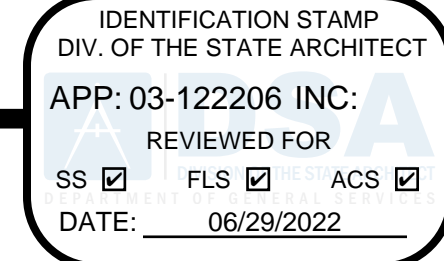
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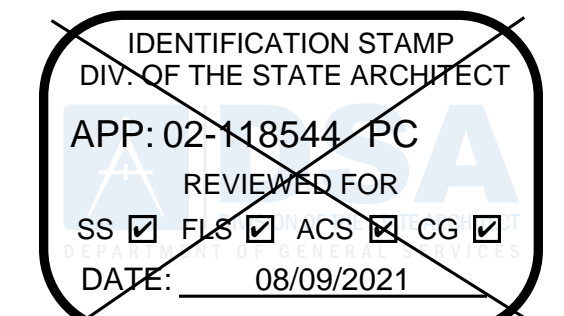
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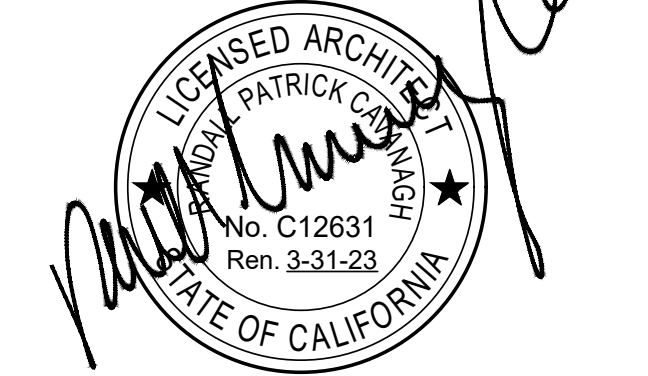
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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(Low Seismic)
FORM

SITE SPECIFIC PROJECT NAME



2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
Revision 1: As Noted

DRAWN BY: AS NOTED
SCALE: AS NOTED
DATE: MM/DD/YYYY
PROJECT NO: XXXX-20

SHEET TITLE: ENERGY CALCULATIONS

SHEET NUMBER: EN.6

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Mechanical Ventilation: Zone Name, Ventilation Function, # of rooms, # of people, Supply OA CFM, Exhaust CFM, Conditioned Area (sf), DCV or Occupant Sensor Control, or Both.

Does the Project include Zonal System? Yes

Table for Zonal System and Terminal Unit Summary: System ID, Zone Name, System Type, Heating, Cooling, Design, Min. Ratio, Max. Ratio, BHP, Watts, Cycles, ECM Motor.

Does the Project include Evaporative Cooler System? No

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Indoor Conditioned Lighting General Info: Occupancy Type, Conditioned Floor Area (ft²), Installed Lighting Power (Watts), Lighting Control Features, Additional (Custom) Allowance, Area Category, Allowance (Watts).

Does the Project include Zonal System? Yes

Table for Indoor Conditioned Lighting Schedule: Name or Item Tag, Complete Luminaire Description, Watts per luminaire, How Wattage is Determined, Total Number of Luminaires, Installed Watts.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Indoor Conditioned Lighting Mandatory Lighting Controls: Building Level Controls, Area Level Controls, Area Description, Area Category, Primary Function Area, Area Controls, Multi-Level Controls, Shut-Off Controls, Primary Daylighting, Secondary Daylighting.

Does the Project include Zonal System? Yes

Table for Indoor Conditioned Lighting Control Credits: Area Description, Primary Function Area, Type of Lighting Control, Power Adjustment Factor, Luminaire Hours of Item Tag, Watts per luminaire, # of Luminaires, Lighting Control (Points), Control Credit (Points).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Declaration of Required Certificates of Acceptance: Building Component, Form/Title, Envelope, Mechanical, Indoor Lighting.

Does the Project include Zonal System? Yes

Table for Declaration of Required Certificates of Verification: Building Component, Form/Title, Envelope, Mechanical, Indoor Lighting.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Declaration of Required Certificates of Acceptance: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

Does the Project include Zonal System? Yes

Table for Declaration of Required Certificates of Verification: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Declaration of Required Certificates of Acceptance: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

Does the Project include Zonal System? Yes

Table for Declaration of Required Certificates of Verification: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Declaration of Required Certificates of Acceptance: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

Does the Project include Zonal System? Yes

Table for Declaration of Required Certificates of Verification: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table with project information: Project Name: AMS PC 3640, Project Address: Palm Springs, HI 92240, Input File Name: AMS 3640 for OSA-C21(01).cld(19)

Table for Declaration of Required Certificates of Acceptance: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

Does the Project include Zonal System? Yes

Table for Declaration of Required Certificates of Verification: Building Component, Form/Title, Envelope, Indoor Lighting, Mechanical.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table for Compliance Results for Performance Components: Energy Component, Standard Design (TDV), Proposed Design (TDV), Compliance Margin (TDV).

ENERGY STANDARDS COMPLIANCE TOTAL: 291.17, 273.15, 18.02 (6.2%)

Table for Results for Above Code Qualifications: Miscellaneous Energy Component, Standard Design (TDV), Proposed Design (TDV), Compliance Margin (TDV).

COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS: 363.49, 345.47, 18.0 (5.0%)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table for Energy Use Summary: Energy Component, Standard Design Site (kBtu/h), Proposed Design Site (kBtu/h), Margin (kBtu/h), Standard Design Site (kBtu/h), Proposed Design Site (kBtu/h), Margin (kBtu/h).

COMPLIANCE TOTAL: 363.49, 345.47, 18.0 (5.0%)

Table for Exceptional Conditions: Energy Component, Standard Design Site (kBtu/h), Proposed Design Site (kBtu/h), Margin (kBtu/h), Standard Design Site (kBtu/h), Proposed Design Site (kBtu/h), Margin (kBtu/h).

COMPLIANCE TOTAL: 363.49, 345.47, 18.0 (5.0%)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

Table for Envelope General Information: Surface Name, Surface Type, Area (ft²), Framing Type, Cavity R-Value, Continuous R-Value, Units, Value, Window to Wall Ratio (%).

COMPLIANCE TOTAL: 363.49, 345.47, 18.0 (5.0%)

Table for Opaque Surface Assembly Summary: Surface Name, Surface Type, Area (ft²), Framing Type, Cavity R-Value, Continuous R-Value, Units, Value.

COMPLIANCE TOTAL: 363.49, 345.47, 18.0 (5.0%)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384

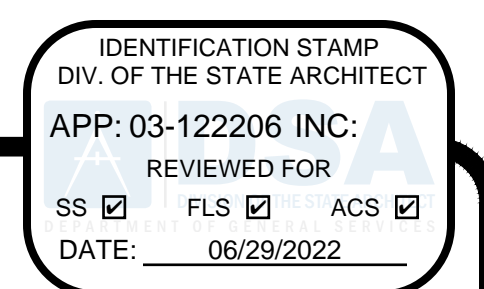
Table for Opaque Surface Assembly Summary: Surface Name, Surface Type, Area (ft²), Framing Type, Cavity R-Value, Continuous R-Value, Units, Value.

COMPLIANCE TOTAL: 363.49, 345.47, 18.0 (5.0%)

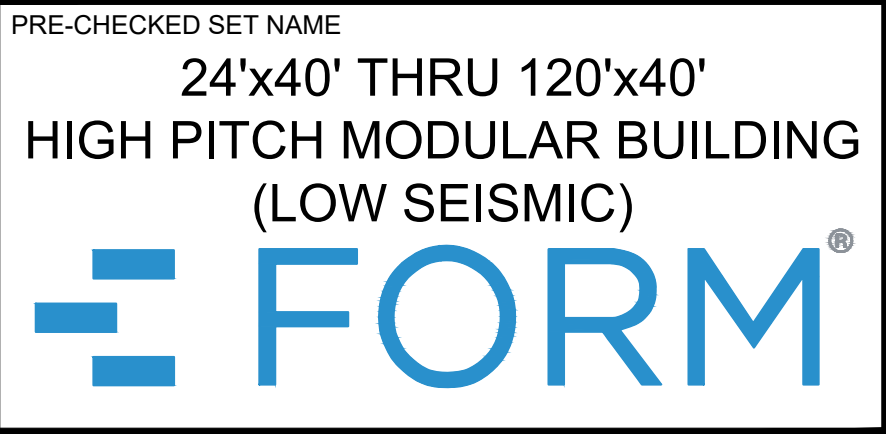
Table for Fenestration Assemblies Summary: Fenestration Assembly Name / Tag or ID, Fenestration Type / Product Type / Frame Type, Certification Method, Assembly Method, Area (ft²), Overall U-Factor, Overall SHGC, Overall VT, Overall ITC.

COMPLIANCE TOTAL: 363.49, 345.47, 18.0 (5.0%)

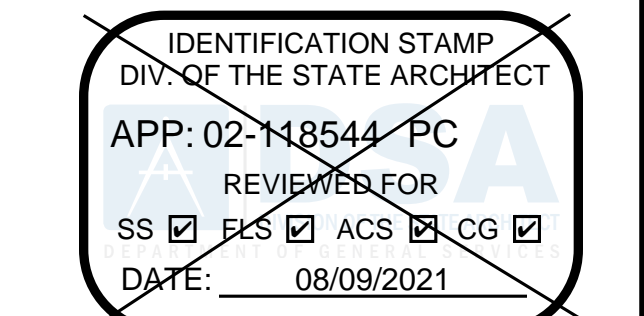
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384



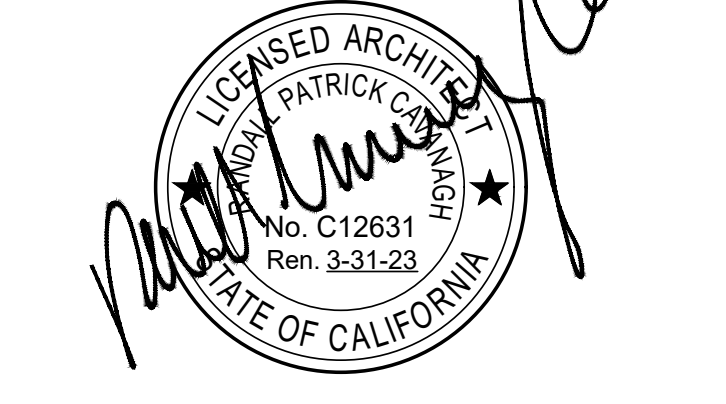
INTELLECTUAL PROPERTY & PROPRIETARY RIGHTS STATEMENT COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS) AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN...



SITE SPECIFIC PROJECT NAME



2019 CBC PRE-CHECK (PC) DOCUMENT A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS DRAWN BY: SCALE: AS NOTED DATE: MM/DD/YY PROJECT NO: XXXX-20 SHEET TITLE: ENERGY CALCULATIONS SHEET NUMBER:

EN.7

Table 1: Project Information and Summary Tables for H1. DRY SYSTEM EQUIPMENT, H2. FAN SYSTEMS SUMMARY, H3. EXHAUST FAN SUMMARY, H4. Wet System Equipment, H5. SYSTEM SPECIAL FEATURES.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 13:29:34

Table 2: Project Information and Summary Tables for H6. MECHANICAL VENTILATION, H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY, H8. EVAPORATIVE COOLER SUMMARY.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 13:29:34

Table 3: Project Information and Summary Tables for K1. INDOOR CONDITIONED LIGHTING GENERAL INFO, K2. INDOOR CONDITIONED LIGHTING SCHEDULE, K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 13:29:34

Table 4: Project Information and Summary Tables for K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 13:29:34

Table 5: Project Information and Summary Tables for L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 13:29:34

Table 6: Project Information and Summary Tables for M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 13:29:34

Table 7: Project Information and Summary Tables for N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 13:29:34

Table 8: Project Information and Summary Tables for DOCUMENTATION AUTHOR'S DECLARATION STATEMENT, RESPONSIBLE PERSON'S DECLARATION STATEMENT.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: NRC-PRF-01-E-04162021-6384 Report Generated at: 2021-06-30 14:36:03

Table 9: Indoor Lighting Compliance Summary Table with columns for project location, climate zone, office types, and compliance results.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2021-04-07 10:47:51

Table 10: Compliance Results Table showing lighting in conditioned and unconditioned spaces, with columns for area, power, and compliance status.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2021-04-07 10:47:51

Table 11: Indoor Lighting Fixture Schedule Table listing fixture types, descriptions, and field inspector pass/fail results.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2021-04-07 10:47:51

Table 12: Indoor Lighting Controls (Not including PAFs) Table showing control details for various rooms and plumb chases.

CA Building Energy Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2021-04-07 10:47:51

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ac

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ac

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ac

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ac

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-C-1
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: AMS Rheem WH Report Page: (Page 3 of 4)
Date Prepared: 2021-04-21 12:41:04-05

A. GENERAL INFORMATION
01 Project Location (City) Palmdale 02 Climate Zone 14
03 Occupancy Types Within Project (select all that apply): Nonresidential
04 Nonresidential: High-Rise Residential, Hotel/Motel, State Building, Healthcare Facility, Other (Write In)

B. PROJECT SCOPE
This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §160.3, §160.3.08, and §160.3.09, or §160.3.02, for additions or alterations. Solar water heating systems are documented on the NRC-C-208 compliance document. Combined hydronic water heating systems are documented on the NRC-C-MCH compliance document.

My project consists of (check all that apply):
01 New system (DHW system being installed for the first time in newly constructed building)
02 Individual System (serving nonresidential spaces)
03 Equipment
04 Distribution
05 Controls
06 System Alteration (equipment, distribution or controls)
07 Equipment
08 Distribution
09 Controls

FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energy Code Ace
Report Generated: 2021-04-21 12:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-C-1
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: AMS Rheem WH Report Page: (Page 2 of 4)
Date Prepared: 2021-04-21 12:41:04-05

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicates as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	COMPLIES
Yes	Yes	Yes	

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: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energy Code Ace
Report Generated: 2021-04-21 12:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-C-1
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: AMS Rheem WH Report Page: (Page 3 of 4)
Date Prepared: 2021-04-21 12:41:04-05

F. DOMESTIC HOT WATER EQUIPMENT
This table is used to demonstrate compliance with mandatory equipment requirements in §160.1 and §160.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §160.3.02, must also be demonstrated with §160.2 for addition and alteration scopes.

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF) ¹
WH-1	Electric Storage	<=30	0= FHR <=18	0.93	0.8

Water Heating Equipment All Occupancies

18	19	20
Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §160.36(3)		
New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §160.36(5)		
Insulation valves for instantaneous water heater with input rating <=8 MBTUH or 2 kW has been specified per §160.36(6)		

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM
This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §160.1 and §160.3. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §160.3(6), §160.3.02, §160.3.04, and §160.3(9).

Mandatory Pipe Insulation All Occupancies

13
For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3.3.6 (see below) per §160.3.1: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a noncirculating storage system • Pipes that are externally heated Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §160.3(8) and §160.3(9).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energy Code Ace
Report Generated: 2021-04-21 12:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-C-1
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: AMS Rheem WH Report Page: (Page 4 of 4)
Date Prepared: 2021-04-21 12:41:04-05

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

Fluid Temperature Range (°F)	Conductivity Range (lb/in per hour per ft per ft)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			< 1	1 to < 1.5	1.5 to < 4
105-140	0.22 - 0.28	100	1.0 in or R-7	1.5 in or R-12.5	1.5 in or R-11

H. DOMESTIC HOT WATER CONTROLS
This table is used to demonstrate compliance with control requirements in §160.1, for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §160.3(6).

01	02	03	04	05	06
Construction documents require manufacturer certification that service water heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §160.3(6)					
Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §160.3(6)(c), unless covered by California Plumbing Code 613.0					
Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §160.3(6)(d), unless systems serve healthcare facility.					
For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §160.3(6)(b), or §160.2 for addition or alterations.					
For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix 904.4.3 per §160.3(6)(b).					
For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §160.3(12)(a) per §160.204(1)(h).					

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energy Code Ace
Report Generated: 2021-04-21 12:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-C-1
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: AMS Rheem WH Report Page: (Page 3 of 4)
Date Prepared: 2021-04-21 12:41:04-05

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection has 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/NRC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-C-PLB-01-E - Must be submitted for all buildings	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-C-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-C-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.	<input type="checkbox"/>

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to a HERS Rater and provided to the building inspector during construction, and the final documents must be created by a HERS Provider registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-C-PLB-21-H High-Rise Residential Central Hot Water Distribution HERS Verification	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-C-PLB-22-H High-Rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energy Code Ace
Report Generated: 2021-04-21 12:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-C-1
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: AMS Rheem WH Report Page: (Page 4 of 4)
Date Prepared: 2021-04-21 12:41:04-05

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Hans Marsman
Company: Marsman Consulting
Address: 1150 S. Silverado
City/State/Zip: CA 92103
Phone: (619) 574-8376

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I, the undersigned, under penalty of perjury, under the laws 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 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: Randall P. Cavanagh
Company: American Modular Systems / One7 Schools
Address: 787 Spreckels Avenue
City/State/Zip: Manteca, CA 95336
Phone: 209.825.1921

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energy Code Ace
Report Generated: 2021-04-21 12:44:31

Point-of-use electric water heaters feature a space-saving design for installation in limited spaces

Efficiency
• 95% EF for 30-gallon models
• High efficiency heating element
• Dual-temperature pod-style outlets
• Off-cool in excess temperature
• 48-hour
• Automatic thermostat keeps water at desired temperature
• Wall bracket for easy wall mount
• Insulation and optional recirculation (4" run drain valve included with 2.5-gallon model)

Warranty
• 6-Year limited parts and parts warranty
• Non-transferable. Certificate for transfer.
• (You need a second AMS warranty. We will have more information on our website. Visit: https://www.amsmodular.com/warranty for details.)

Plus...
• Temperature and pressure relief valve
• Exclusive Rheemguard™ tank lining resists corrosion and protects tank life
• Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements
• These units are UL listed and comply with Underwriter's Laboratories Specifications 174

Point-of-Use
2.5, 5, 10, 15, 20 and 30-Gallon Capacities
120 VOLT AC
2-Wire Single Phase Electric

DESCRIPTION	HEIGHT	WIDTH	DEPTH	WEIGHT	ENERGY CONSUMPTION
2.5	14.5	14.5	14.5	14.5	14.5
5	19.5	19.5	19.5	19.5	19.5
10	24.5	24.5	24.5	24.5	24.5
15	29.5	29.5	29.5	29.5	29.5
20	34.5	34.5	34.5	34.5	34.5
25	39.5	39.5	39.5	39.5	39.5
30	44.5	44.5	44.5	44.5	44.5

In keeping with its policy of continuous program and product improvement, Rheem reserves the right to make changes without notice.

Rheem Water Heating • 101 Ball Road
Midgerty, Alabama 36117-4202 • www.rheem.com

STATE OF CALIFORNIA
Electrical Power Distribution
NRC-C-1 (General 12/17)
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: 2019 Beams G+R - N/A (SITE SPECIFIC)
Report Page: (Page 1 of 3)
Date Prepared: 06/24/20

A. GENERAL INFORMATION
01 Project Location (City) Palmdale
02 Occupancy Types Within Project: Office, Retail, Warehouse, Hotel/Motel, School, Support Area, High-Rise Residential, Relocatable, Other (Write In)

B. PROJECT SCOPE
Table instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Description/Description	Scope of Work	Rating (kVA)	Utility Provided Metering System (Exception to §160.512)	Demand Response Controls
				Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §160.2, §160.3.1 and §160.3.2 and compliance documents NRC-C-MCH, NRC-C-LT and NRC-C-LTS will indicate when demand response controls are required.

C. COMPLIANCE RESULTS
Table instructions: If this table says "DOES NOT COMPLY" refer to Table D, for guidance and review the Table that indicates "No".

01	02	03	04	05
Service Electrical Metering §160.510	Separation for Metering §160.510	Voltage Drop §160.510	Controlled Receptacles §160.510	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	

Registration Number: CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: https://www.energy.ca.gov/title24/2016standards
December 2017

STATE OF CALIFORNIA
Electrical Power Distribution
NRC-C-1 (General 12/17)
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: 2019 Beams G+R - N/A (SITE SPECIFIC)
Report Page: (Page 2 of 3)
Date Prepared: 06/24/20

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING
This Section Does Not Apply.

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING
This Section Does Not Apply.

H. VOLTAGE DROP
This Section Does Not Apply.

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
This Section Does Not Apply.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/Forms/NRC/

YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-C-ELC-01-E - Must be submitted for all buildings.	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: https://www.energy.ca.gov/title24/2016standards
December 2017

STATE OF CALIFORNIA
Electrical Power Distribution
NRC-C-1 (General 12/17)
CALIFORNIA ENERGY COMMISSION
NRC-C-1-1
CERTIFICATE OF COMPLIANCE
Project Name: 2019 Beams G+R - N/A (SITE SPECIFIC)
Report Page: (Page 3 of 3)
Date Prepared: 06/24/20

DOCUMENTATION AUTHOR'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 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.

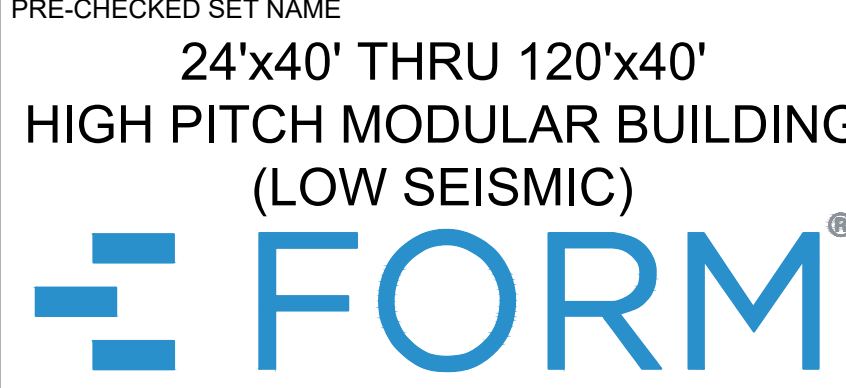
Documentation Author Name: JACOB P. JONES
Company: AMERICAN MODULAR SYSTEM
Address: 787 SPRECKELS AVE
City/State/Zip: MANTECA, CA 95336
Phone: (209) 825-1921

Responsible Designer Name: RANDALL P. CAVANAGH
Company: AMERICAN MODULAR SYSTEM
Address: 787 SPRECKELS AVE
City/State/Zip: MANTECA, CA 95336
Phone: (209) 825-1921

Registration Number: CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: https://www.energy.ca.gov/title24/2016standards
December 2017



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SITE SPECIFIC PROJECT NAME

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS

NO.	DESCRIPTION

DRAWN BY: SCALE: AS NOTED
DATE: MM/DD/YYYY
PROJECT NO: XXXX-20
SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.9

STATE OF CALIFORNIA
SOLAR READY AREAS
CERTIFICATE OF COMPLIANCE
Solar Ready Areas
Page 1 of 3

DATE: 08/28/20
Page 1 of 3

A. General Information
Project Address:
Building Type:
Solar ready requirements do not apply to hotels/motel buildings and high-rise multifamily buildings with more than three stories.
Type of Construction:
Solar ready requirements do not apply to alterations or additions that increase the roof area by 2,000 ft² or less.

B. Solar-Ready
Minimum Solar Zone Area (ft²): 144 - 288
Proposed Solar Zone Area (ft²):
The construction documents will include a location for inverters and mounting equipment and a pathway for routing of conduit from the solar zone to the point of interconnection with the electrical service. The construction documents will indicate a pathway for routing of plumbing from the solar zone to the water heating system.
A copy of the construction documents or a comparable document indicating information about the solar zone and interconnection pathways will be provided to the inspector.
If the designer certifies that all above requirements have been met and the Proposed Solar Zone Area meets or exceeds the Minimum Solar Zone Area, the building complies, otherwise it does not comply. does not comply complies

30. Permanently Installed Solar Photovoltaic (PV) System
Total Roof Area (ft²):
Minimum Nameplate DC Power Rating (watts):
New construction: reroof total roof area. Addition: newly installed roof area.
Will the proposed building have a permanently installed solar electric system that meets or exceeds the Minimum Nameplate DC Power Rating? No Yes
If a new PV system is installed, the construction documents will include a location for inverters and mounting equipment and a pathway for routing of conduit from the solar zone to the point of interconnection with the electrical service.
Please check box to right if answered yes to all questions in this section. EXEMPT

31. Permanently Installed Solar Water Heating System
Will the building have a permanently installed solar water heating system? No Yes
If a new solar water heating system is installed, the construction documents will include a location for the solar water heating system and a pathway for routing of conduit from the solar zone to the water heating system.
The annual solar energy fraction must be greater than 0.2 in climate zones 1 through 9 and 0.25 in climate zones 10 through 16.
Annual Solar Energy Fraction:
How was Annual Solar Energy Fraction Calculated?
Please check box to right if answered yes to all questions in this section. EXEMPT

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance July 2016

STATE OF CALIFORNIA
SOLAR READY AREAS
CERTIFICATE OF COMPLIANCE
Solar Ready Areas
Page 2 of 3

DATE: 08/28/20
Page 2 of 3

32. Smart Thermostats and Alternative Efficiency Measures
Is the building a high-rise multifamily building with ten stories or fewer? Yes No
Will all thermostats in each dwelling unit comply with Reference Appendix 5 (SAS) and will they be capable of receiving and responding to Demand Response Signals prior to granting of an occupancy permit by the enforcing agency? Yes No
Will one of the following alternative efficiency measures be installed?
• A dishwasher that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements or a whole house fan driven by an electrically connected motor.
• A home automation system capable of, at a minimum, controlling the operation and lighting of the dwelling and responding to energy signals or
• Alternative plumbing piping to connect the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or
• A wastewater treatment system designed to comply with the California Plumbing Code and any applicable local ordinances, and that can remove floating foam at least 50% of the available roof area.
Please check box to right if answered yes to all questions in this section. EXEMPT

33. Roof is Designed for Vehicle Traffic, Parking, or for Helipad
Will the roof be designed and approved to be used for vehicular traffic, parking or for a helipad? Yes No
Please provide building plan reference:
Please check box to right if answered yes to all questions in this section. EXEMPT

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance July 2016

STATE OF CALIFORNIA
SOLAR READY AREAS
CERTIFICATE OF COMPLIANCE
Solar Ready Areas
Page 3 of 3

DATE: 08/28/20
Page 3 of 3

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Jacob P. Jones
Signature: [Signature]
Date Signed: 08/28/20
Title: AMS (Certification Identification of Applicant)
Address: 787 Spreckels Ave., Manteca, CA 95336
Phone: 209-825-1921

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 or occupancy.
Responsible Designer Name: Randall P. Cavanaugh
Responsible Designer Signature: [Signature]
Date Signed: 08/31/20
Title: C12631
Address: 787 Spreckels Ave., Manteca, CA 95336
Phone: 209-825-1921

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance July 2016

STATE OF CALIFORNIA
MINIMUM SOLAR ZONE AREA WORKSHEET
CERTIFICATE OF COMPLIANCE
Minimum Solar Zone Area Worksheet
Page 1 of 3

DATE: 08/28/20
Page 1 of 3

A. General Information
Project Address: 787 SPRECKELS AVE., MANTECA, CA 95336
Total Roof Area: [] Less than or equal to 10,000 ft² Greater than 10,000 ft²
Phase of Construction: New Construction Addition that increases roof area by more than 2,000 ft²

Step 1: Determine Minimum Solar Zone Area
Calculate the minimum solar zone area using one of the two options provided below. Use option 2 if your roof and overhangs are shaded.
Method 1: Minimum Solar Zone Area Based on Total Roof Area Requirements in 110.10(b)(2)
New Construction: Total roof area (ft²): A 960 - 1920
Address: Total roof area added to building (ft²): B 0
New Construction: Area of roof covered with awnings (ft²): C 0
Address: Area of new roof area covered with awnings (ft²): D 0
Minimum solar zone area: E C + 0.15 (A - B) 144 - 288
Note: For additions, if a 2,000 ft² then addition does not need to comply with solar zone requirements.
Method 2: Minimum Solar Zone Area Based on Potential Solar Zone Requirements in Exception 1a 110.10(b)(3)
The enforcement agency may require additional documentation that describes how the reduced solar zone area was determined.
Method (Footcandle) used to quantify annual solar access: (For example, "Software X", "500 foot-candle")
Area of low-sloped roof (pitch of the rise to the run of 2:12 or less) where the annual solar access is 70% or greater: (ft²): D 0
Area of steep-sloped roof (pitch of the rise to the run is greater than 2:12) that is oriented between 135° and 225° and annual solar access is 70% or greater: (ft²): E 0
Minimum solar zone area: F 1 + 0.15 (D + E) 0
For new construction consider total roof area; for additions consider newly added roof area.
Minimum solar zone area (after C or F): G 144 - 288

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
MINIMUM SOLAR ZONE AREA WORKSHEET
CERTIFICATE OF COMPLIANCE
Minimum Solar Zone Area Worksheet
Page 2 of 3

DATE: 08/28/20
Page 2 of 3

Step 2: Allocated Solar Zone Subareas

Subarea ID	Building Plan Reference	If Slope, roof or overhang oriented between 110° and 270°	Subarea containing the solar zone is free of obstructions?	Plane containing the solar zone is free of obstructions?	Subarea is located at appropriate distance from obstructions?	Smallest dimension is greater than 5 feet?	Subarea meet minimum area requirement?	Subarea Qualified?	Area (ft ²)
H	I	J	K	L	M	N	O	P	Q
Low	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	144

Add Row Remove Row

A. The solar zone shall comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 5 or other Parts of Title 24 or in any requirements adopted by a local jurisdiction.
B. No obstructions, including but not limited to, vents, chimneys, architectural features, and roof mounted equipment, shall be located in the solar zone.
C. Solar zone must be located no closer than twice the distance, measured in the horizontal plane, of the height difference between the highest obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
D. If the building roof area is 20,000 ft² then minimum area is 80 ft². If building roof area > 20,000 ft² then minimum area is 160 ft².
E. Check "yes" if answers to questions in columns A through F are "yes".

Building complies with Minimum Solar Zone Area requirement if Proposed Solar Zone Area [S] is equal to or greater than the Minimum Solar Zone Area [G]. COMPLIES

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
MINIMUM SOLAR ZONE AREA WORKSHEET
CERTIFICATE OF COMPLIANCE
Minimum Solar Zone Area Worksheet
Page 3 of 3

DATE: 08/28/20
Page 3 of 3

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Jacob P. Jones
Signature: [Signature]
Date Signed: 08/28/20
Title: AMS (Certification Identification of Applicant)
Address: 787 Spreckels Ave., Manteca, CA 95336
Phone: 209-825-1921

RESPONSIBLE PERSON'S DECLARATION STATEMENT
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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 or occupancy.
Responsible Designer Name: Randall P. Cavanaugh
Responsible Designer Signature: [Signature]
Date Signed: 08/31/20
Title: C12631
Address: 787 Spreckels Ave., Manteca, CA 95336
Phone: 209-825-1921

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

PROPOSED FRAMED ENVELOPE ASSEMBLY FORM-3R / ENV-3
For Residential & Nonresidential Buildings - EZFRAME Version 2.0
Project Name: AMS

COMPONENT DESCRIPTION

Assembly Name	Roof
Assembly Type	Roof
Framing Material	Metal
Framing Spacing	48"
Framing Size	
Actual depth	3.500"
Actual width	3.000"
Cavity Insulation	
R-value	19.0
Knock-out (%)	0.0
Web Thickness	0.1496"
Insulation Type R-value	
Interior Flange	1.0
Exterior Flange	0.0

SKETCH OF ASSEMBLY

CONSTRUCTION COMPONENTS

Description	R-value	Thickness	Int/Ext	Air/ Metal
Exterior Components:				
1. Steel Siding	0.17	N/A	Ins	N/A
	0.00	0.06"	NO	YES
Interior Components:				
3/8" Acoustic Tile	0.95	0.38"	NO	NO
Inside surface air film	0.62	N/A	N/A	N/A

RESULTS FOR: AMS

Total R-value: 14.27 h.ft2.F/Btu
Total U-value: 0.070 Btu/h.ft2.F

COMMENTS

Thank you,
[Signature]
Randall P. Cavanaugh

AMERICAN MODULAR SYSTEMS
Gen7
healthy schools, delivered

April 30, 2020
DSA
Division of the State Architect
5100 Q Street
Sacramento, CA 95811

This letter is in regards to the 2019 Energy/CALGreen Code DSA Plan Review, 2019 CBC - AMS PC Submissions.
American Modular Systems (AMS) shall conform their on-site construction practices to comply with the required construction waste management practices illustrated in the Part 11, Title 24 California Green Building Code (CBC). The intent of this letter is to inform, illustrate, and demonstrate that AMS and its building comply to the following applicable code section illustrated below:
2019 California Green Building Code (CBC) - Part 11, Title 24, CBC
• Section 4.06.1 - Construction Waste Management
If the construction waste management takes place in the factory, provide program specifics to CALGreen plan reviewer which identifies:
1. Percentage of waste to be salvaged or recycled with a minimum of 65% non-hazardous construction waste.
2. Procedures for waste management reporting.
3. Type of waste to be diverted.
4. If sorted or bulk mixed.
5. If handled by a waste management company or a diversion facility.
6. If calculated by weight or volume.
AMS shall comply to this section by the following procedure & practice:
1. AMS shall be responsible for the organization and management of construction waste on the factory site, including the responsibility of recycling waste that is a minimum of 65% non-hazardous construction waste.
2. AMS shall enter metal waste & recycling bins from a licensed and authorized waste management company from the City of Manteca, or equivalent in that matter. Upon approval, the bins(s) shall be dropped off on factory site by hired waste management company. As the bins(s) reach full capacity of construction waste, AMS schedules a pick-up for the bins and is given invoice receipts from the waste management company.
3. AMS shall station the bins(s) whereas needed for AMS plant workers to salvage and/or recycle construction waste during the work day. Each bin is labeled to help sort the different types of construction waste (e.g. Wood, Scrap Metal, Glass, Lumber).
4. AMS plant workers and management are responsible for sorting each bin with the correct types of construction waste listed above.
5. The invoice provided by the hired waste management company provides a description of the bin(s) and additional information.
6. Invoice receipts provide calculated weights of each bin & pricing of rental usage.
The PC plans and specifications will not reflect and show these procedures for any project.
Any questions regarding the construction waste management procedures, please feel free to contact AMS's office.
American Modular Systems, Inc., 787 Spreckels Ave., Manteca, California 95336, Ph: 209-825-1921 Fax: 209-825-7018
www.americanmodular.com



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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC
[Signature]
LICENSED ARCHITECT
PATRICK HONG
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:

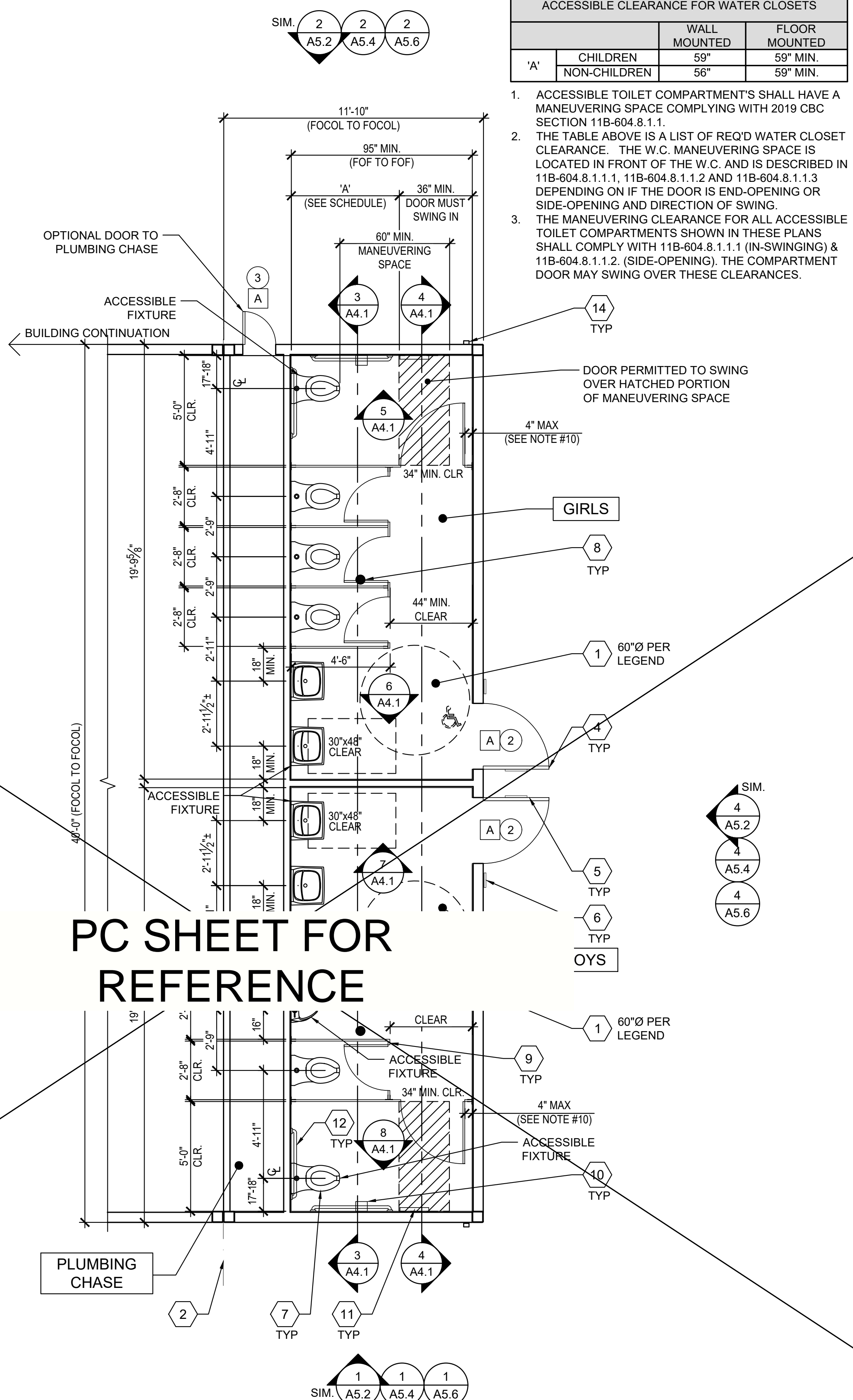
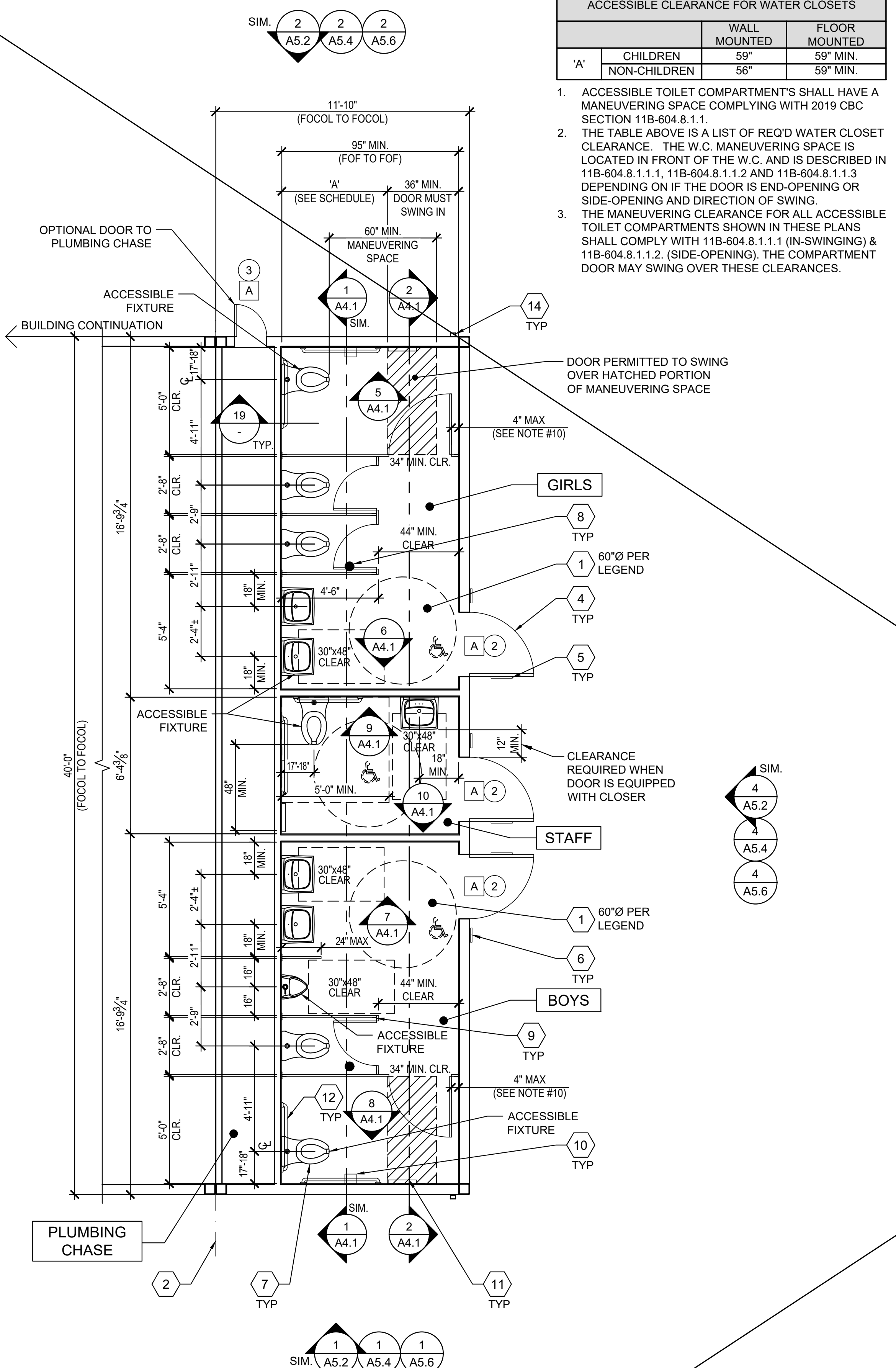
ENERGY CALCULATIONS
SHEET NUMBER:
EN.10

ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
'A'		WALL MOUNTED	FLOOR MOUNTED
		CHILDREN	59"
NON-CHILDREN	56"	59" MIN.	

- ACCESSIBLE TOILET COMPARTMENTS SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
- THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
- THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2 (SIDE-OPENING). THE COMPARTMENT DOOR MAY SWING OVER THESE CLEARANCES.

ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
'A'		WALL MOUNTED	FLOOR MOUNTED
		CHILDREN	59"
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PC SHEET FOR REFERENCE

- CLEAR FLOOR SPACE AREA
- TYP. MOD LINE
- NOT USED
- DOOR PER SCHEDULE ON SHEET N3.0, TYP.
- RESTROOM SIGNAGE (BY OTHERS) PER DETAILS 1-9, SHEET N4.0
- ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 5&9/N4.0
- PLUMBING FIXTURE PER P1.0
- FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0
- 1:48 FLOOR SLOPE MAX
- TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL)
- TOILET TISSUE DISPENSER PER P1.0
- TOILET SEAT COVER DISPENSER PER P1.0
- GRAB BARS - SEE 6/A7.1
- NOT USED
- DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.) (QUANTITY AND LOCATION MAY VARY)

KEY NOTES

- DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (I.e. F.O.C.).
- RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
- RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
- RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER MODULE OF THE SAME SIZE.
- INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
- REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS & DIMENSIONS.
- REFER TO DETAILS 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
- SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
- PIPING MATERIAL
 - WATER: COPPER TYPE "L", 95/5 SOLDER.
 - WASTE DRAIN AND VENT: ABS.
- TOILET COMPARTMENT DOORS LOCATED IN THE FRONT PARTITION SHALL BE 4" MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, PER C.B.C. SECTION 11B-604.8.1.2.

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER P.O.C'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.



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SITE SPECIFIC PROJECT NAME

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REVISIONS

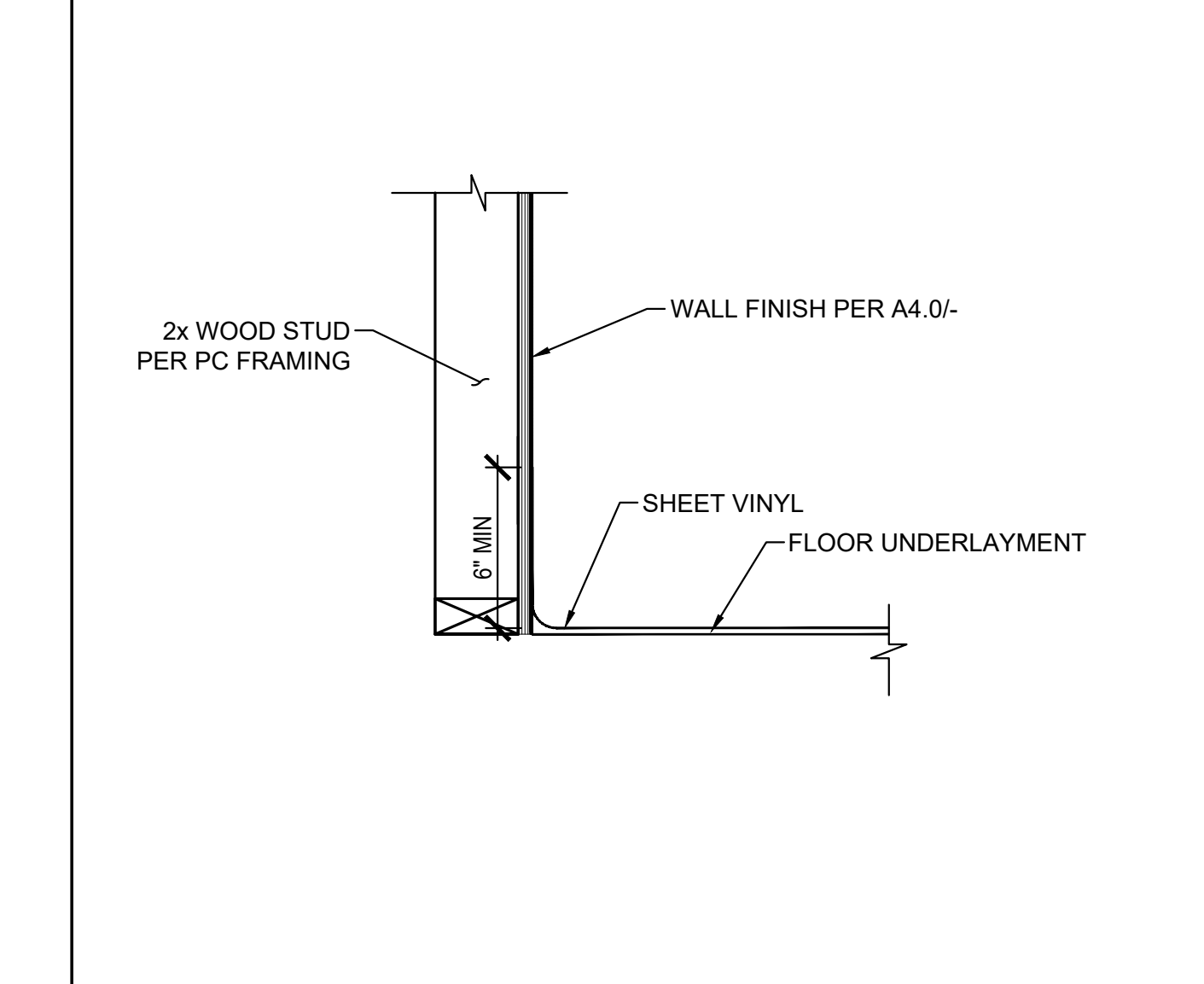
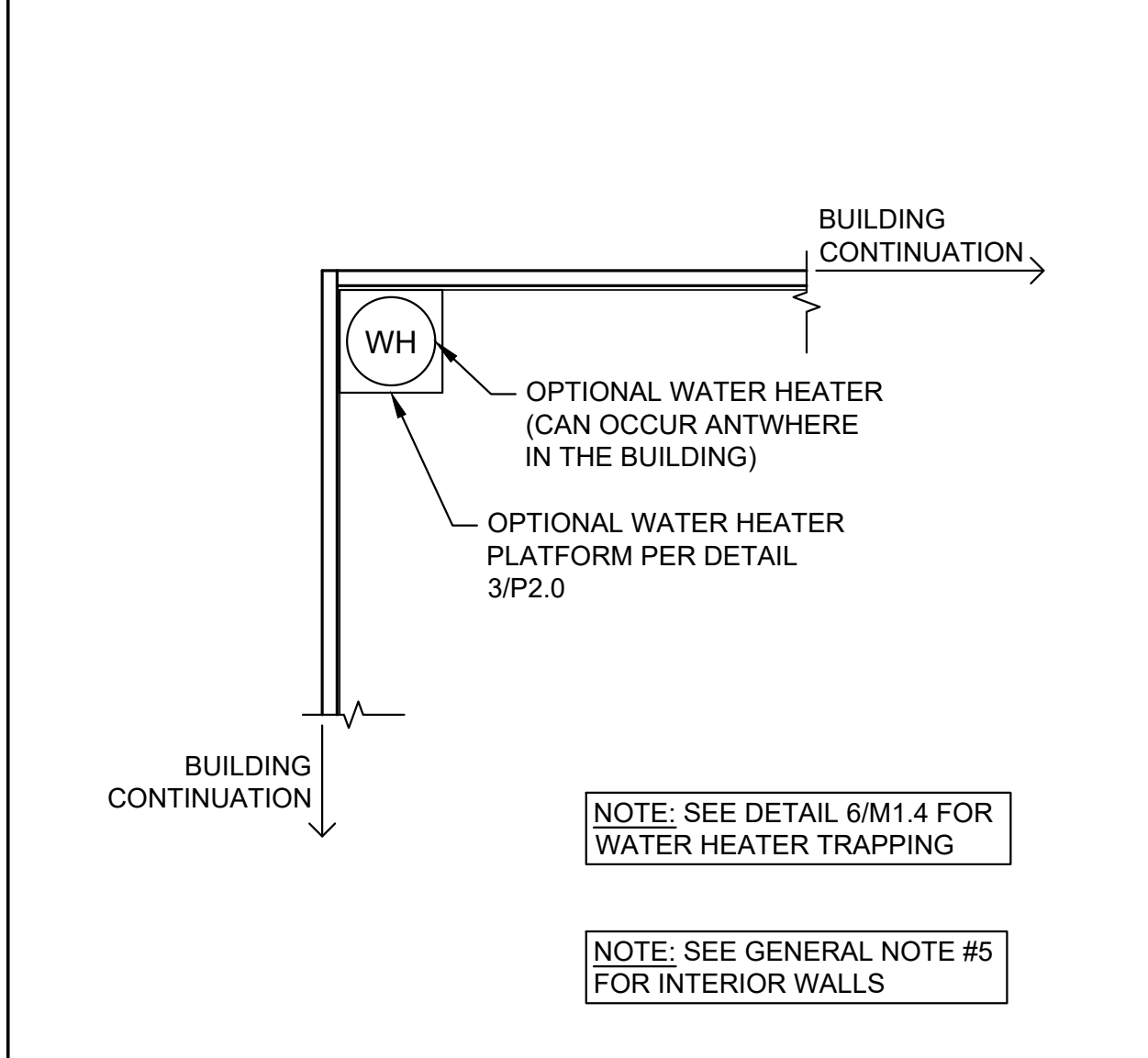
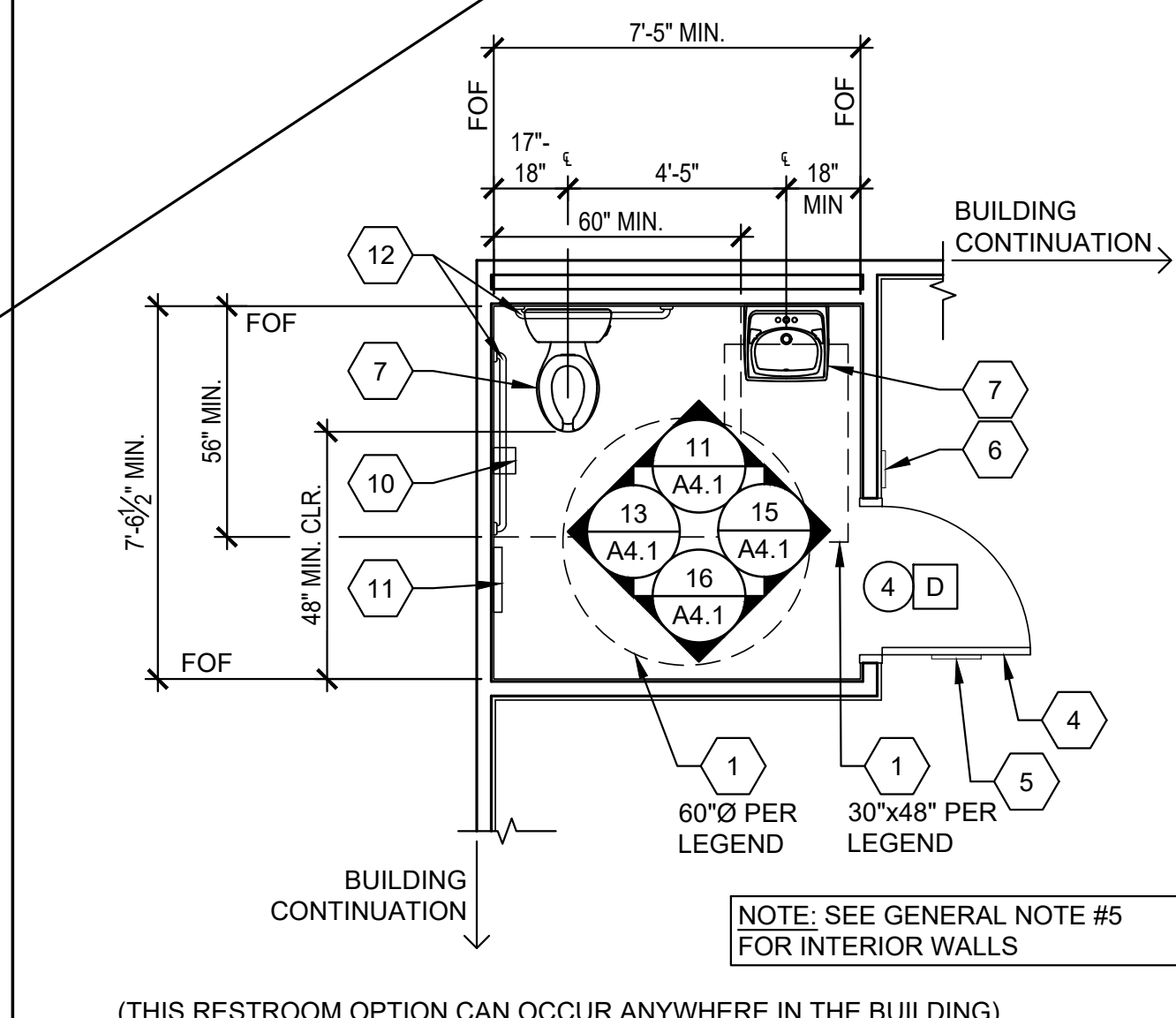
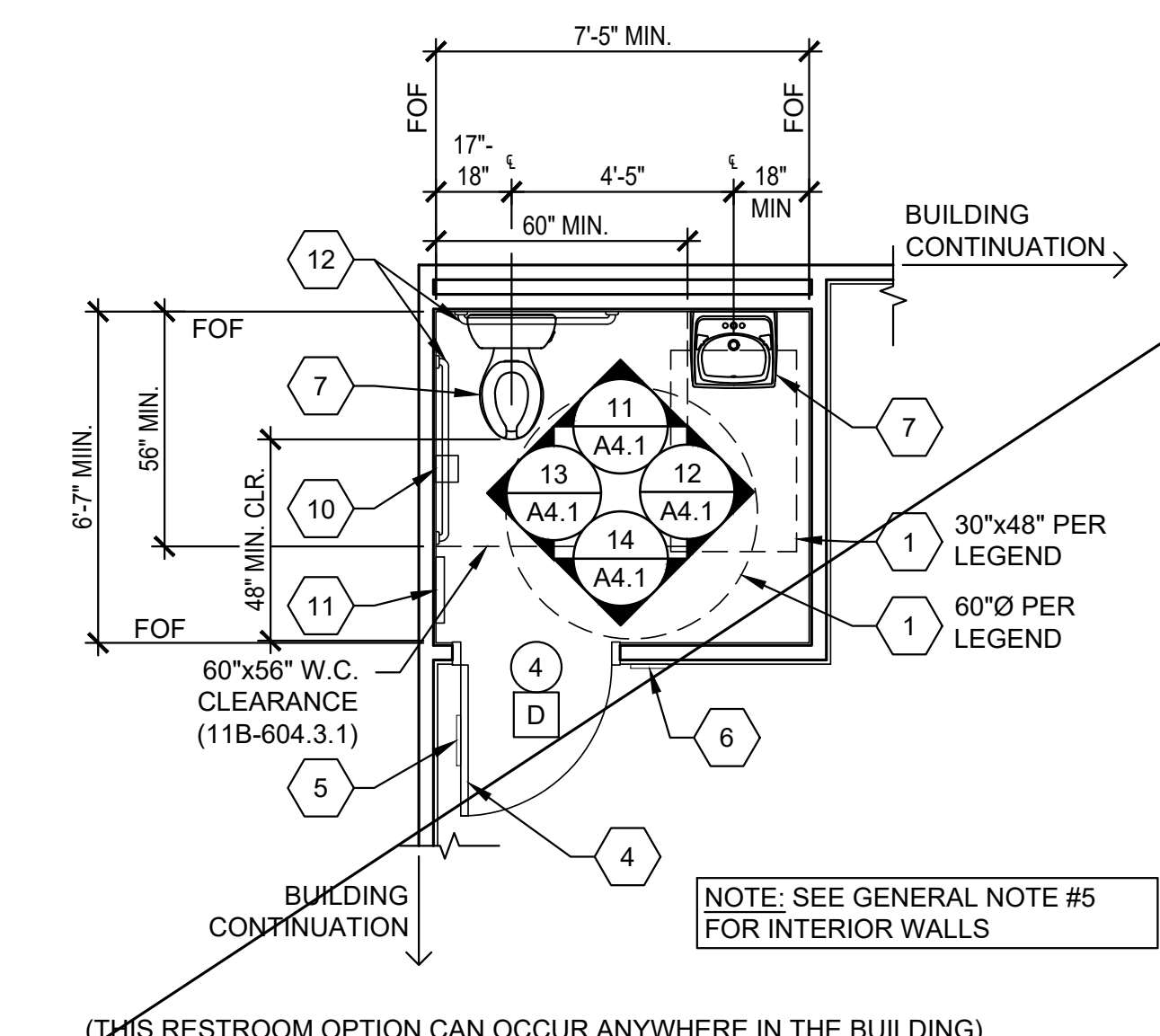
NO.	DESCRIPTION

DRAWN BY: AS NOTED
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE: RESTROOM FLOOR PLAN OPTIONS
SHEET NUMBER:

BOYS, GIRLS & STAFF RESTROOM FLOOR PLAN OPTION A SCALE: 1/4" = 1'-0"

BOYS & GIRLS RESTROOM FLOOR PLAN OPTION B SCALE: 1/4" = 1'-0"

GENERAL NOTES



- 1 = KEY NOTE - SEE KEY NOTES, THIS SHEET
- X = DOOR TYPE - SEE SCHEDULE SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE SHEET N3.0
- 60" = 60" DIAMETER CLEAR FLOOR TURNING SPACE
- 30"x48" = 30"x48" CLEAR FLOOR SPACE

SINGLE TOILET PLAN - FRONT WALL APPROACH SCALE: 1/4" = 1'-0"

SINGLE TOILET PLAN - SIDE WALL APPROACH SCALE: 1/4" = 1'-0"

OPTIONAL WATER HEATER SCALE: 1/4" = 1'-0"

PROTECTION OF WOOD WALLS @ TOILET ROOMS SCALE: 1/4" = 1'-0"

SYMBOLS LEGEND

A1.2

ACCESSIBLE MANEUVERING SPACE FOR WATER CLOSETS

	WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN 56" MIN.	59" MIN.
	NON-CHILDREN 59" MIN.	59" MIN.

1. ACCESSIBLE TOILET COMPARTMENTS SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2016 CBC SECTION 11B-604.8.1.1.

- 1 NOT USED
- 2 DOOR SIGNAGE PER 2, 7 OR 8/IN.4.0 (BY OWNER)
- 3 RESTROOM I.D. SIGNAGE (BY OTHERS) PER DETAILS 1,3 OR 6, SHEET N4.0
- 4 TYPICAL DOOR PER SCHEDULE ON SHEET N3.0.
- 5 60" CLEAR TURNING SPACE
- 6 ELECTRICAL PANEL (LOCATION MAY VARY)
- 7 PLUMBING FIXTURE PER P1.0
- 8 CERAMIC TILE FLOOR
- 9 NOT USED
- 10 TOILET TISSUE DISPENSER BY OTHERS (BRADLEY MODEL 508-32, OR EQUAL) PER P2.0
- 11 TOILET SEAT COVER DISPENSER BY OTHERS (BOBRICK MODEL B-221, OR EQUAL)
- 12 GRAB BARS - SEE 6/A7.1
- 13 HAND DRYER
- 14 DOWNSPOUT - DISCHARGE TO STORM DRAIN LINE
- 15 EXTERIOR LIGHT
- 16 JANITOR SINK
- 17 ELECTRICAL WATER HEATER PER DETAIL 3/P2.0
- 18 WALL MOUNT WATER FOUNTAIN
- 19 SITE MOUNTED HANDRAILS (BY OTHERS)
- 20 CHANGING STATION (BY OTHERS)

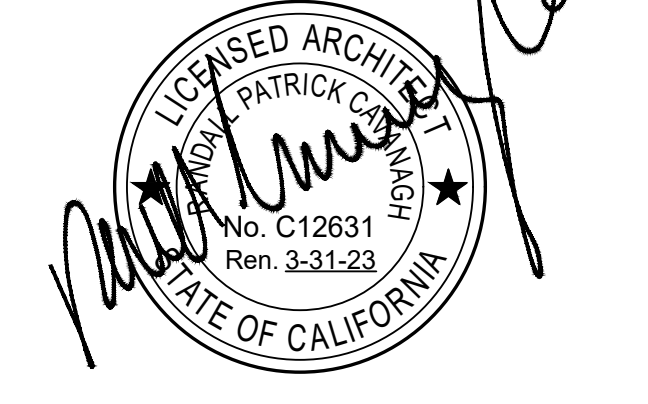
AMS
 American Modular Systems
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PRE-CHECKED SET NAME
 24'x40' THRU 120'x40'
 HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
 ROWLAND USD
 HOLLINGWORTH ES
 (1) 24' x 40' RESTROOM

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC



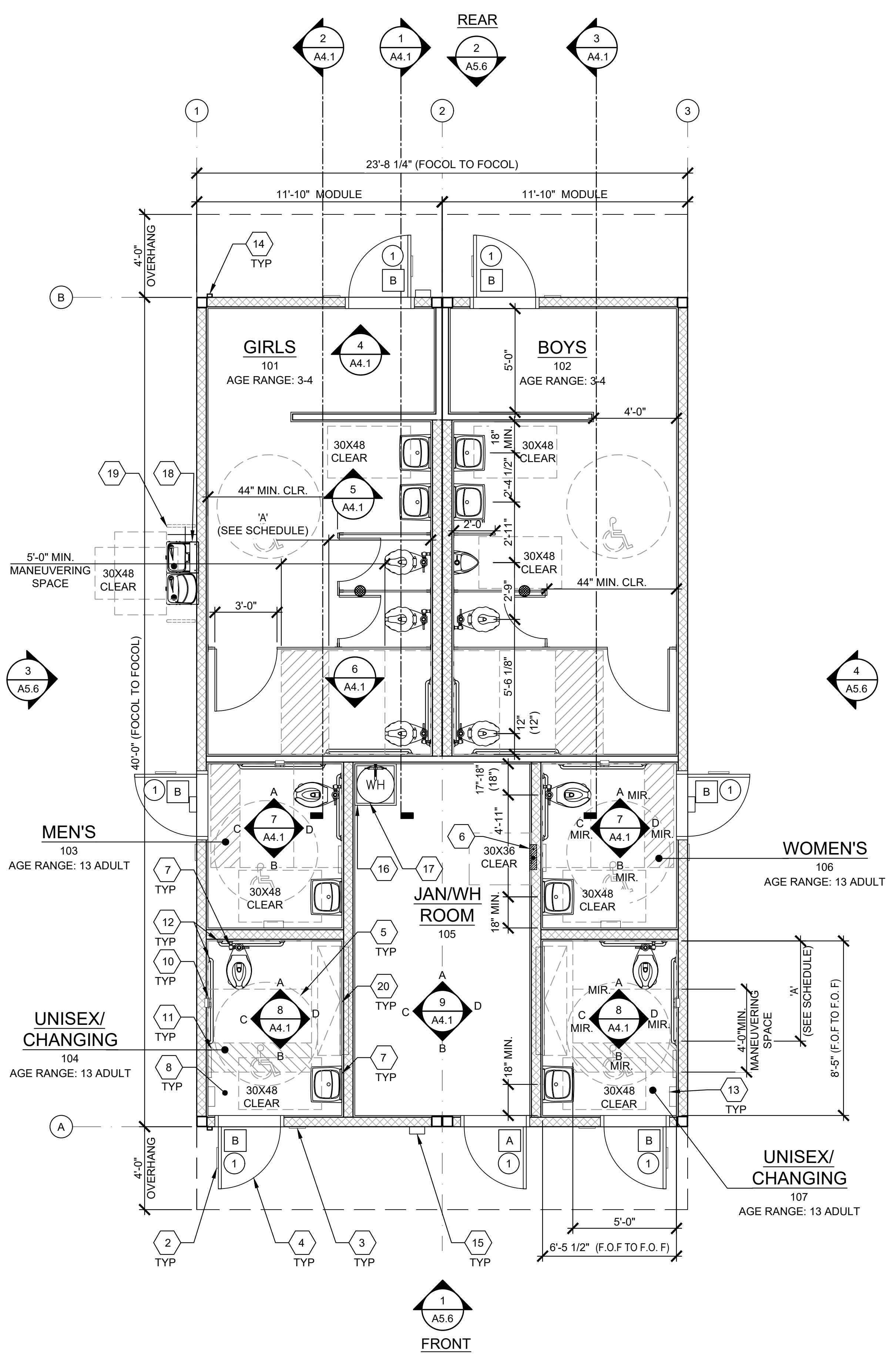
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REVISIONS

NO.	DESCRIPTION

DRAWN BY: JMA/VV
 SCALE: AS NOTED
 DATE: 06/24/22
 PROJECT NO: 1685-20
 SHEET TITLE: RESTROOM FLOOR PLAN
 SHEET NUMBER:

A1.2-M



KEY NOTES

- RESTROOM CONFIGURATION MAY VARY.
- RESTROOM MODULE OCCURS AT END OF BUILDING WHEN COMBINED WITH OTHER MODULES. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
- NOT USED.
- INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
- REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AND DIMENSIONS. AGE 13-ADULT IS SHOWN.
- REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
- PROVIDE FIRE BLOCKING PER DETAIL 5, SHEET M1.5.
- SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
- PIPING MATERIAL:
 A. WATER: COPPER TYPE "L", 95/5 SOLDER.
 B. WASTE DRAIN AND VENT: ABS.
- TOILET COMPARTMENT DOORS LOCATED IN THE FRONT PARTITION SHALL BE 4" MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, PER C.B.C. SECTION 11B-604.8.1.2.

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES - BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY - ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR UON.

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

- IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).
-
- (2) LAYER 5/8" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 24" O.C. MAX. w/ 3/2" THK. BATT INSULATION
- STC=40
 TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER: OL-05-1003
- MINIMUM WINDOW & DOOR RATINGS:
 ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

TYPICAL FLOOR PLAN

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH ¹
24'x40'	2	0	23'-8 1/2"
36'x40'	3	1	35'-6 3/4"
48'x40'	4	2	47'-5"
60'x40'	5	3	59'-3 1/4"
72'x40'	6	4	71'-1 1/2"
84'x40'	7	5	82'-1 3/4"
96'x40'	8	6	94'-10"
108'x40'	9	7	106'-8 1/4"
120'x40'	10	8	118'-6 1/2"

NOTES:
 1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULAR CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.1.

SYMBOLS/WALL LEGEND

(X) # = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS

(X) = KEY NOTE - SEE KEY NOTES ABOVE

(X) = DOOR TYPE - SEE SCHEDULE, SHEET N3.0

(X) = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0

(X) = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

2X4 WALL = NO HATCHING

2X6 WALL = ANS137 (253)

ENERGY CONTROLS

- DEMAND RESPONSE CONTROLS:
 ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
- AUTOMATIC DAYLIGHTING CONTROLS:
 NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SKYLIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1
- ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
 PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROL S IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
- SOLAR-READY ZONE REQUIREMENTS:
 REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

NOTE:
 ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ACOUSTIC CONTROLS

- WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
- MINIMUM WALL ASSEMBLIES:
 WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.3, A5.5, A5.7, & A8.0, WITH EITHER 2x4 WOOD STUDS OR 6" STEEL STUDS PER LISTED OPTIONS.
 MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.

(1) LAYER 1/2" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 16" O.C. MAX.

STC=28
 (CATALOG SECTION 1.2.1.5.4.1)
 TEST REF.: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

BUILDING SIZE SCHEDULE

SYMBOLS/WALL LEGEND

ENERGY NOTES

ACOUSTIC NOTES

ACOUSTIC NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122206 INC.
REVIEWED FOR
SS FLS ACS
DATE: 06/29/2022



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24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
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APP: 02-18544 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/09/2021

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REVISIONS	
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△	
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DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
**TYPICAL ROOF DETAILS
METAL STANDING SEAM**
SHEET NUMBER:

A2.2

		<p>22 GA. 1 1/2" CLIP @ 12" O.C. #14x1" STMS w/ NEOPRENE WASHER @ 24" O.C. 24 GA. GALVANIZED CAP FLASHING 1"x4" NAILER METAL STANDING SEAM ROOF RIGID ROOF INSULATION PER SHEET M1.7 ROOF SHEATHING CONT. VAPOR BARRIER Z-PURLIN PER PLAN ANGLE CLIPS PER STRUCTURAL SHEET S4.2 OVERHANG OUTRIGGER BEYOND BOUNDARY ATTACHMENT PER S4.0 & S4.2 ROOF BEAM EXTERIOR FINISH MAY VARY - SEE PLANS EXTERIOR WALL</p> <p>SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.</p>																																					
NOT USED	1	<p>SCALE: 1 1/2"=1'-0"</p> <p>CRIMP OVERLAP 4'-0" O.C. @ MODLINE METAL ROOF PAN ROOF CLIPS PER STRUCTURAL - SEE S4.2 CONT. VAPOR BARRIER RIGID ROOF INSULATION PER SHEET M1.7 ROOF PURLIN PER STRUCTURAL SEE STRUCTURAL S4.2</p> <p>NOTE: SEE DETAIL 9/- FOR OPTIONAL MOD-LINE CONNECTION AT SEISMIC JOINT.</p>	NOT USED	3	NOT USED	4	<p>GUTTER CLIP W/ #8 x 3/4" S.M.S. TYP. @ 48" O.C. METAL STANDING SEAM ROOF 5"x5" BOX GUTTER FACE OF WALL DOWNSPOUT ATTACH TO BLDG w/ (2) #10x2 1/2" TEKS SCREWS</p> <p>SCALE: 1 1/2"=1'-0"</p>	5	NOT USED	6	<p>SCALE: 1 1/2"=1'-0"</p>	7	<p>SCALE: 1 1/2"=1'-0"</p>	8	<p>SCALE: 1 1/2"=1'-0"</p>	9	NOT USED	10	NOT USED	11	<p>SCALE: 1-1/2"=1'-0"</p>	12	<p>SCALE: 1-1/2"=1'-0"</p>	13	NOT USED	14	NOT USED	15	NOT USED	16	NOT USED	17	NOT USED	18	NOT USED	19	NOT USED	20	NOT USED

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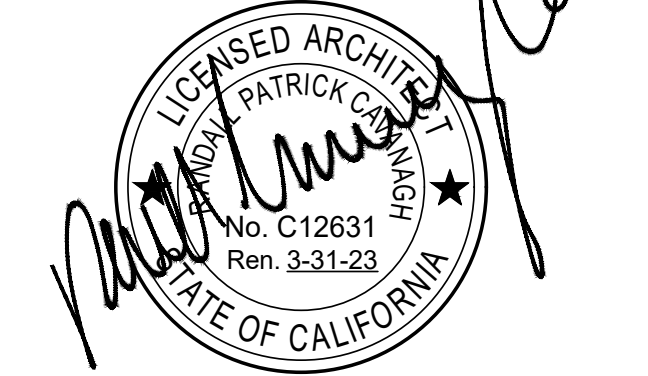
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 (LOW SEISMIC)
FORM

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IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-118544 PC
 REVIEWED FOR
 SS FLS ACS CG
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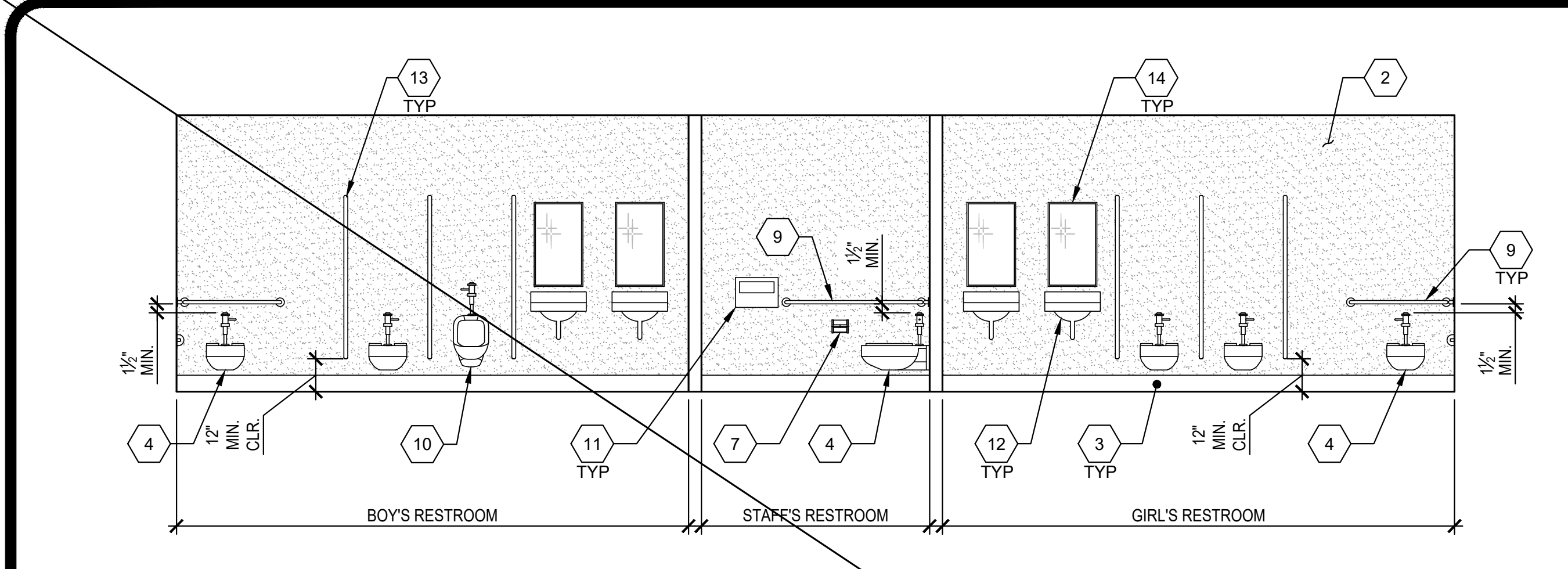
REVISIONS	

DRAWN BY: AS NOTED
 SCALE: MM/DD/YY
 DATE: XXXX-20
 PROJECT NO: XXXX-20
 SHEET TITLE:

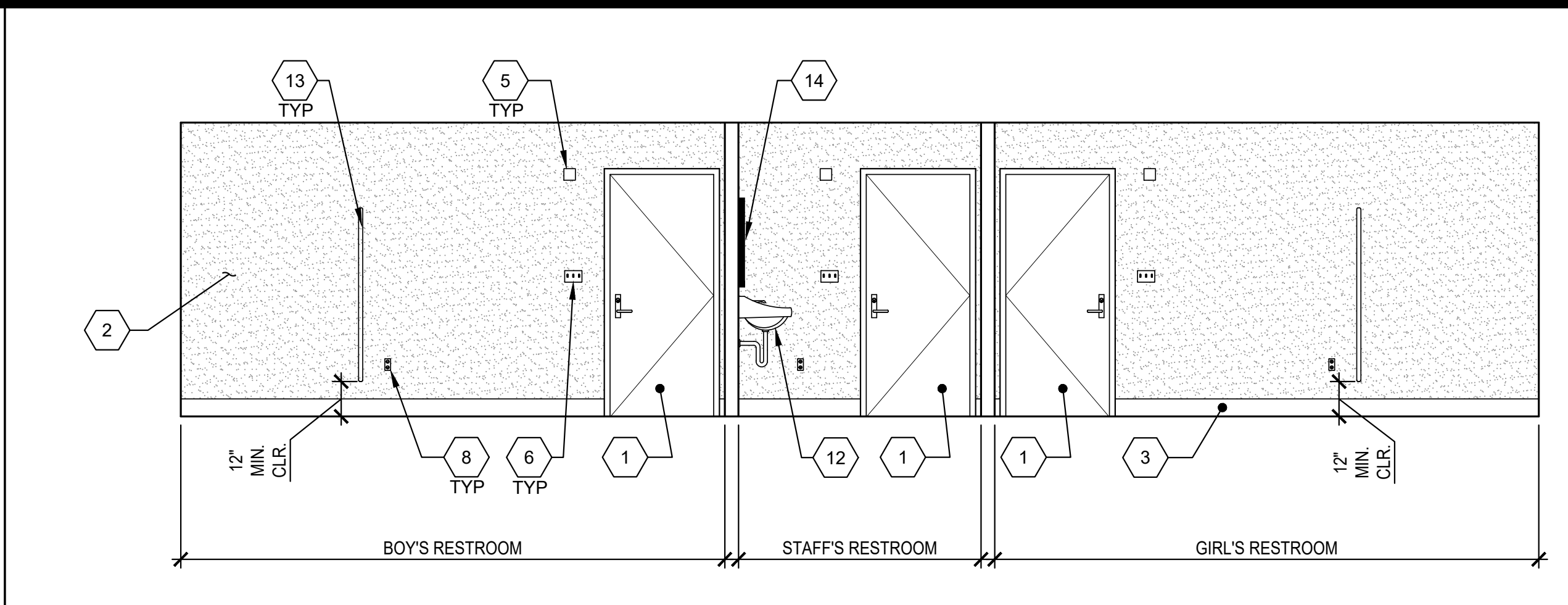
**INTERIOR ELEVATIONS
 RESTROOM OPTIONS**

SHEET NUMBER:

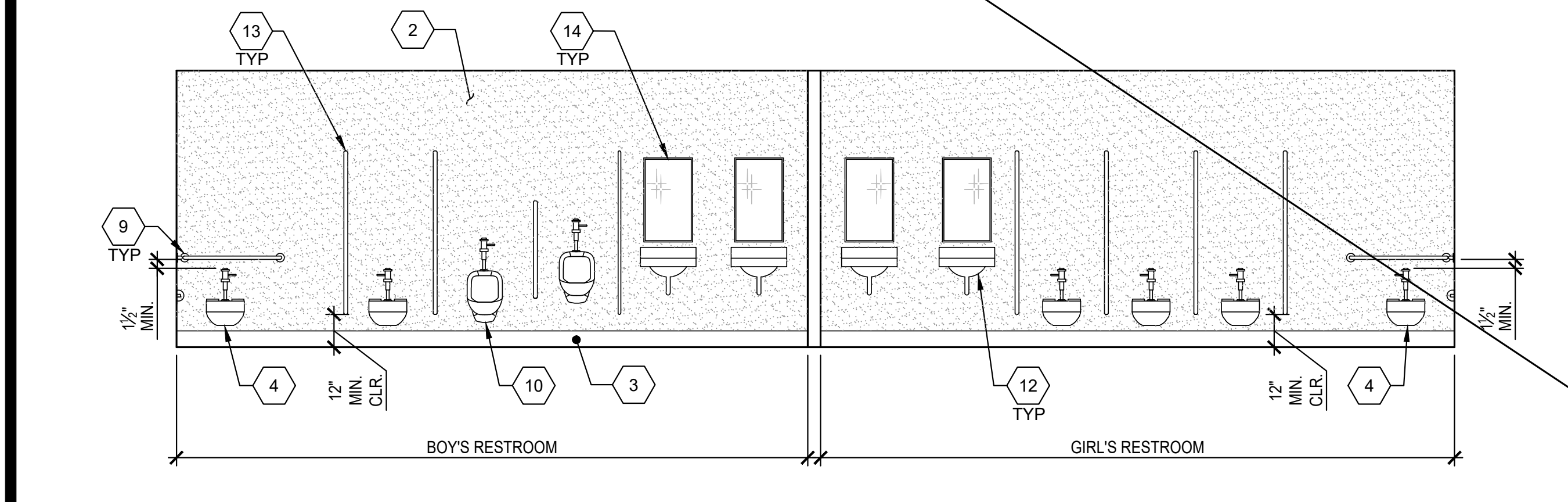
A4.1



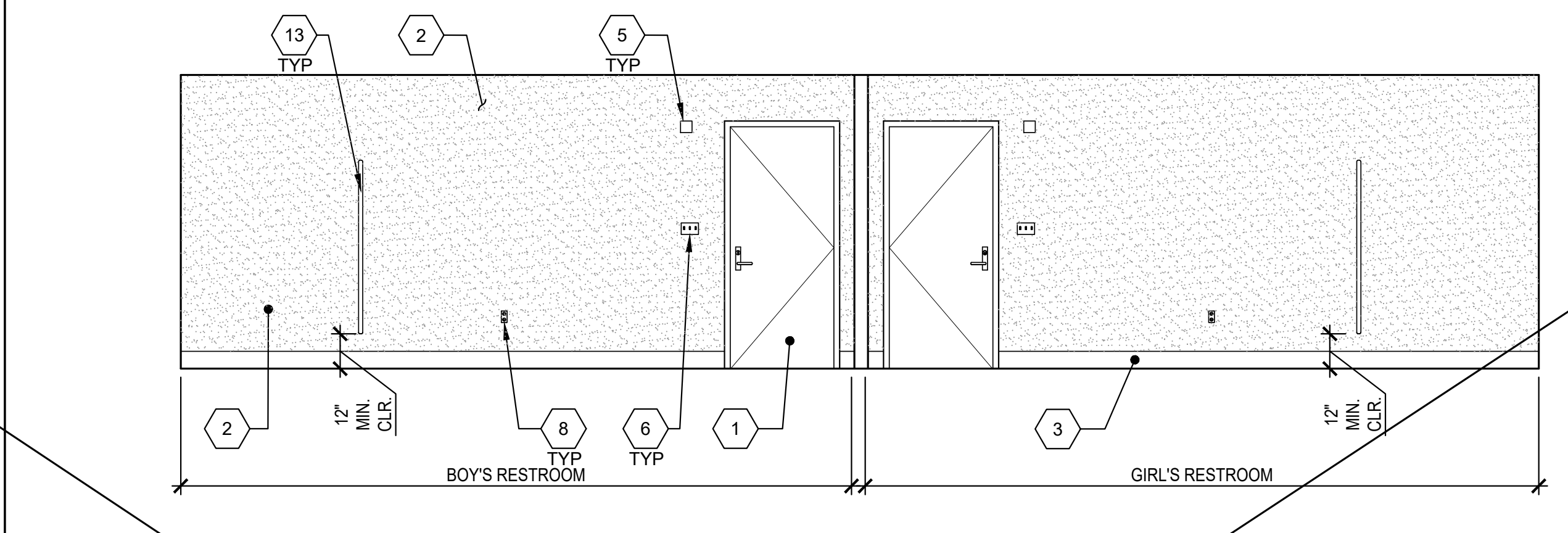
RESTROOM SIDEWALL ELEVATION - GIRLS, STAFF, BOYS SCALE: 1/4" = 1'-0" 1



RESTROOM SIDEWALL ELEVATION - GIRLS, STAFF, BOYS SCALE: 1/4" = 1'-0" 2



RESTROOM SIDEWALL ELEVATION - BOYS & GIRLS SCALE: 1/4" = 1'-0" 3

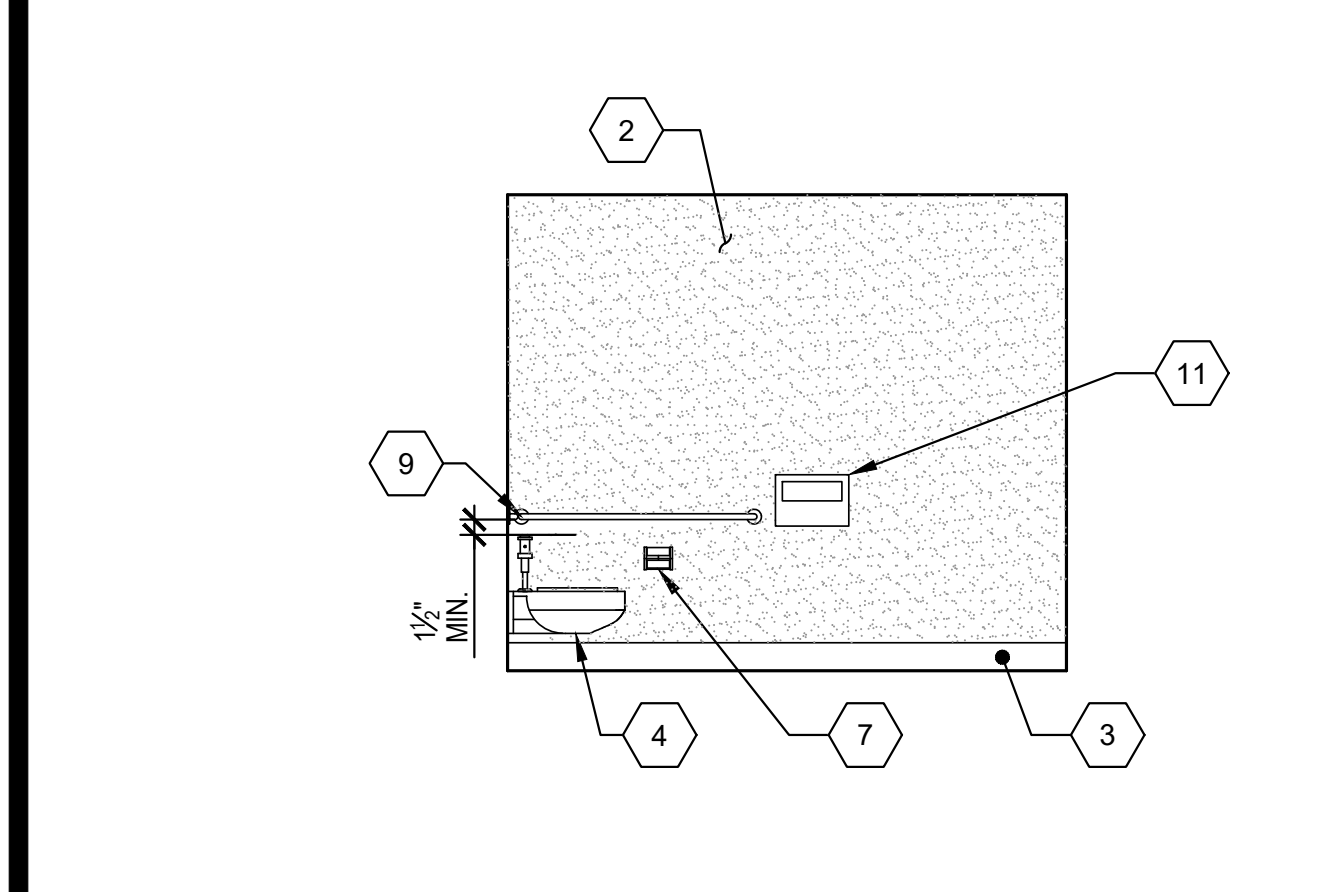


RESTROOM SIDEWALL ELEVATION - BOYS & GIRLS SCALE: 1/4" = 1'-0" 4

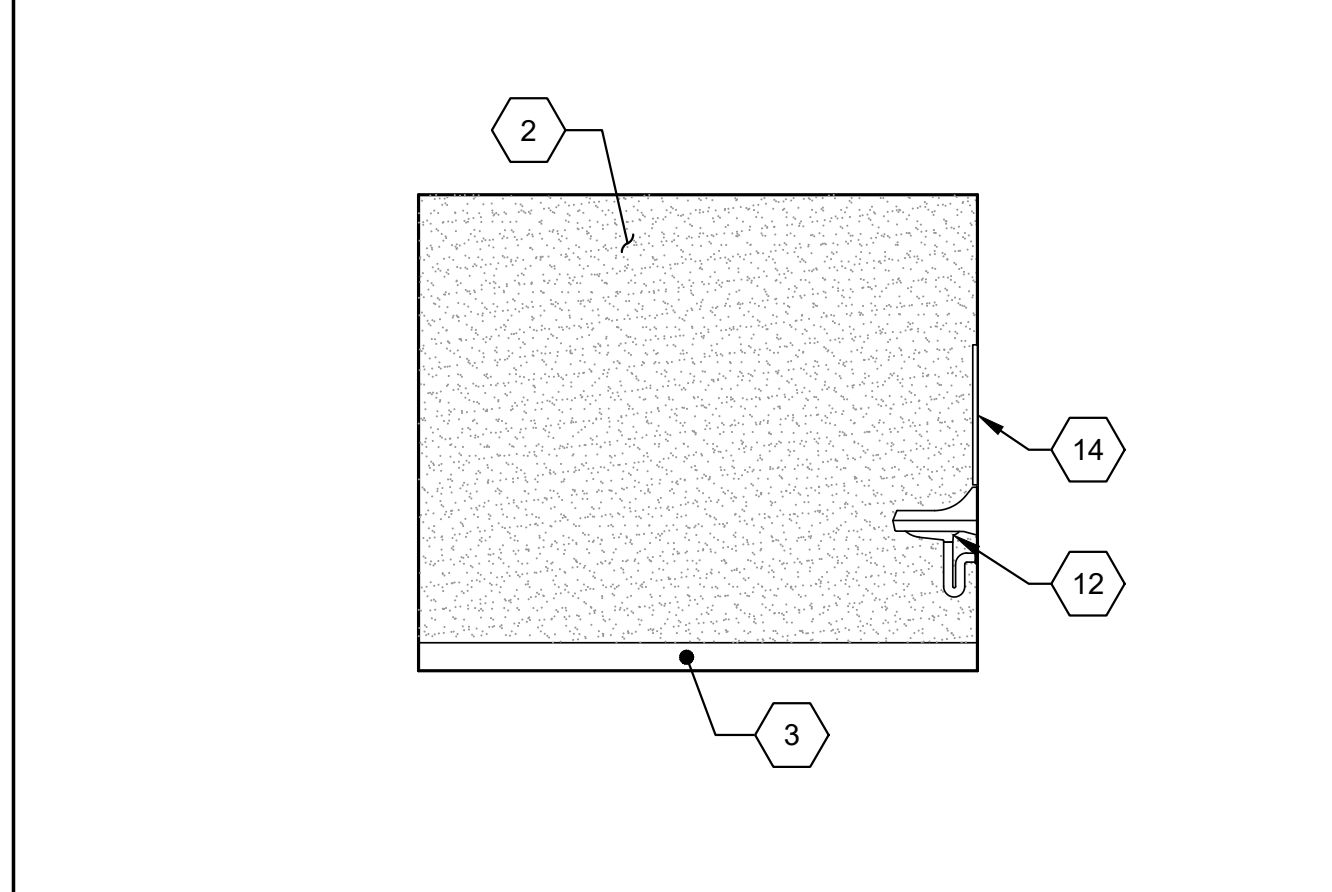
- 1 TYPICAL DOOR
- 2 F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 3 6" TOP SET BASE - REFER TO DETAIL 19/A1.2
- 4 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
- 5 HORN/STROBE J-BOX - SEE ELECTRICAL SHEETS
- 6 LIGHT SWITCH - SEE ELECTRICAL SHEETS
- 7 TOILET PAPER DISPENSER PER P1.0
- 8 TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
- 9 GRAB BAR - SEE DETAIL 6/A7.1
- 10 ACCESSIBLE URINAL - SEE DETAIL 15/P2.0
- 11 TOILET SEAT COVER DISPENSER PER P1.0
- 12 ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
- 13 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 20. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
- 14 TYP. MIRROR (19" MAX. WEIGHT) - SEE DETAIL 17/P2.0

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10.

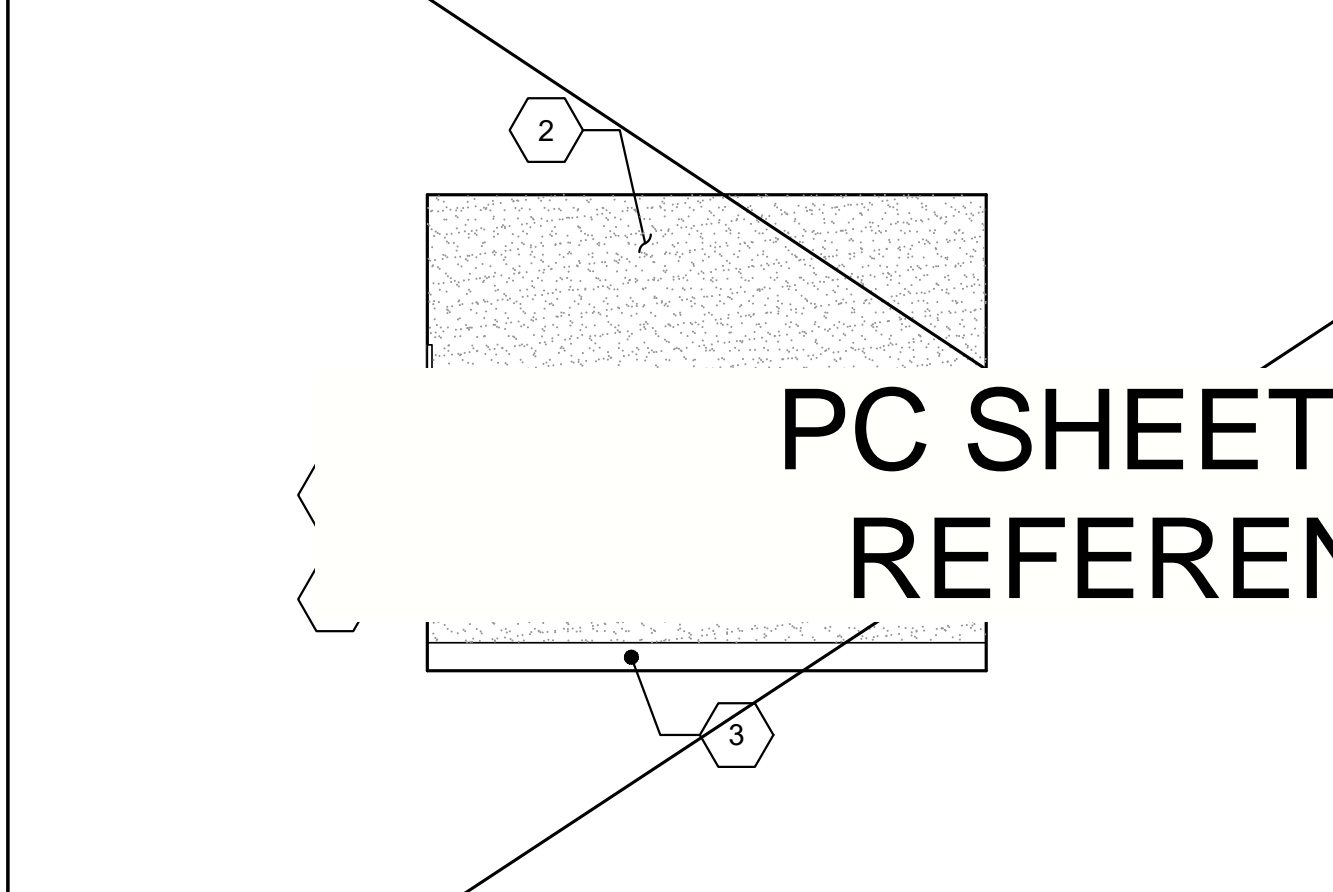
KEY NOTES



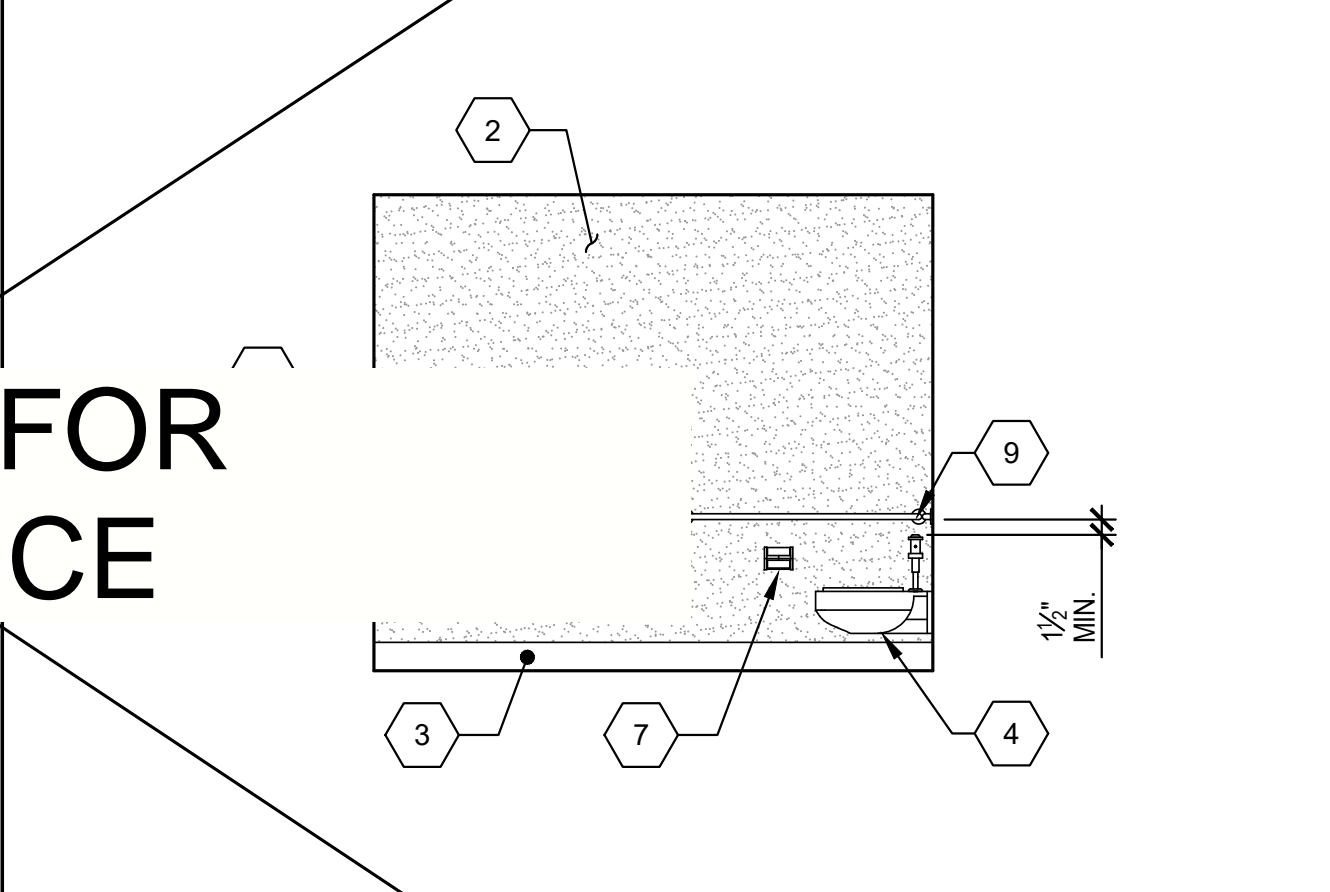
RESTROOM ENDWALL ELEV. - GIRLS SCALE: 1/4" = 1'-0" 5



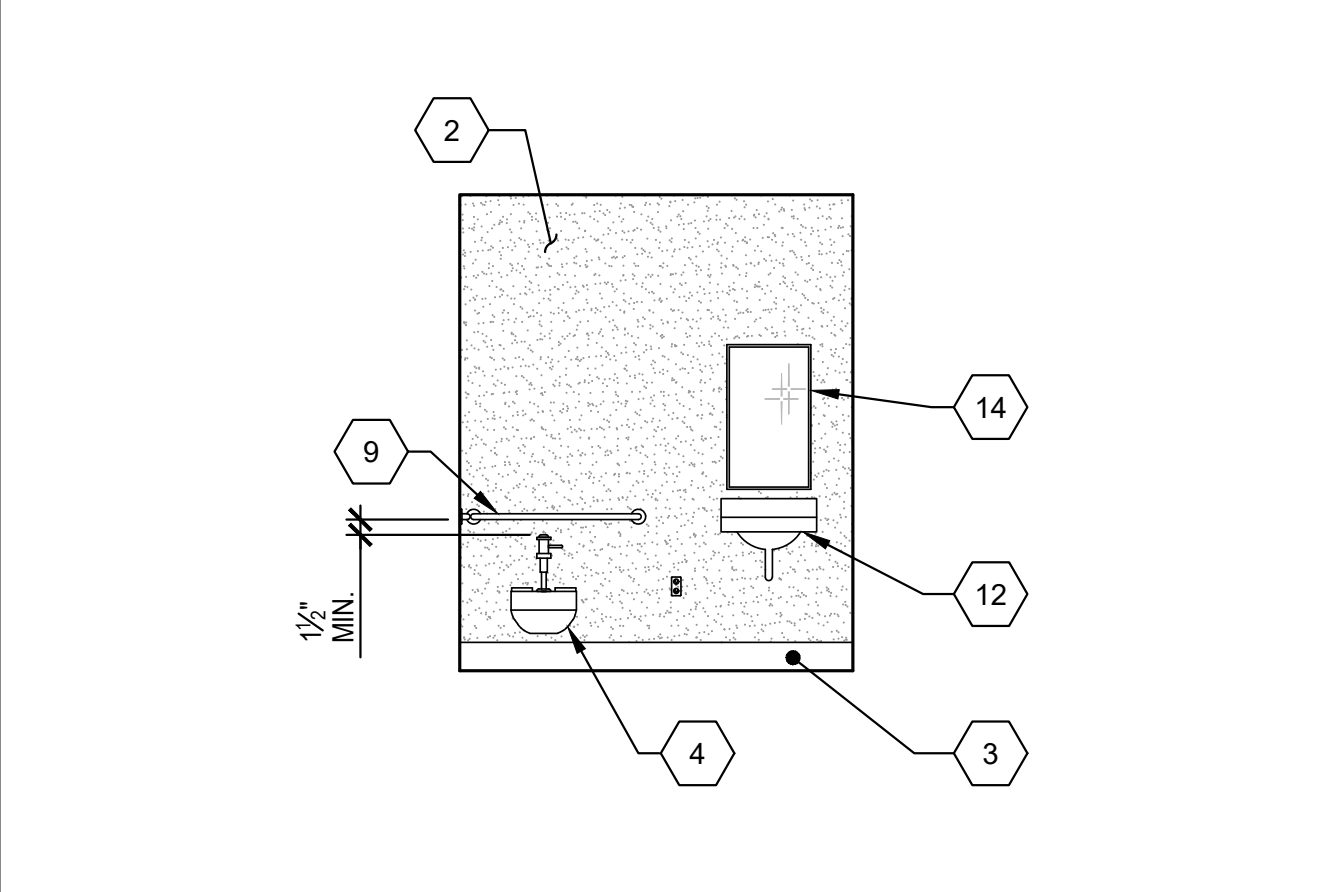
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RESTROOM INTERIOR WALL ELEV. - BOYS SCALE: 1/4" = 1'-0" 7

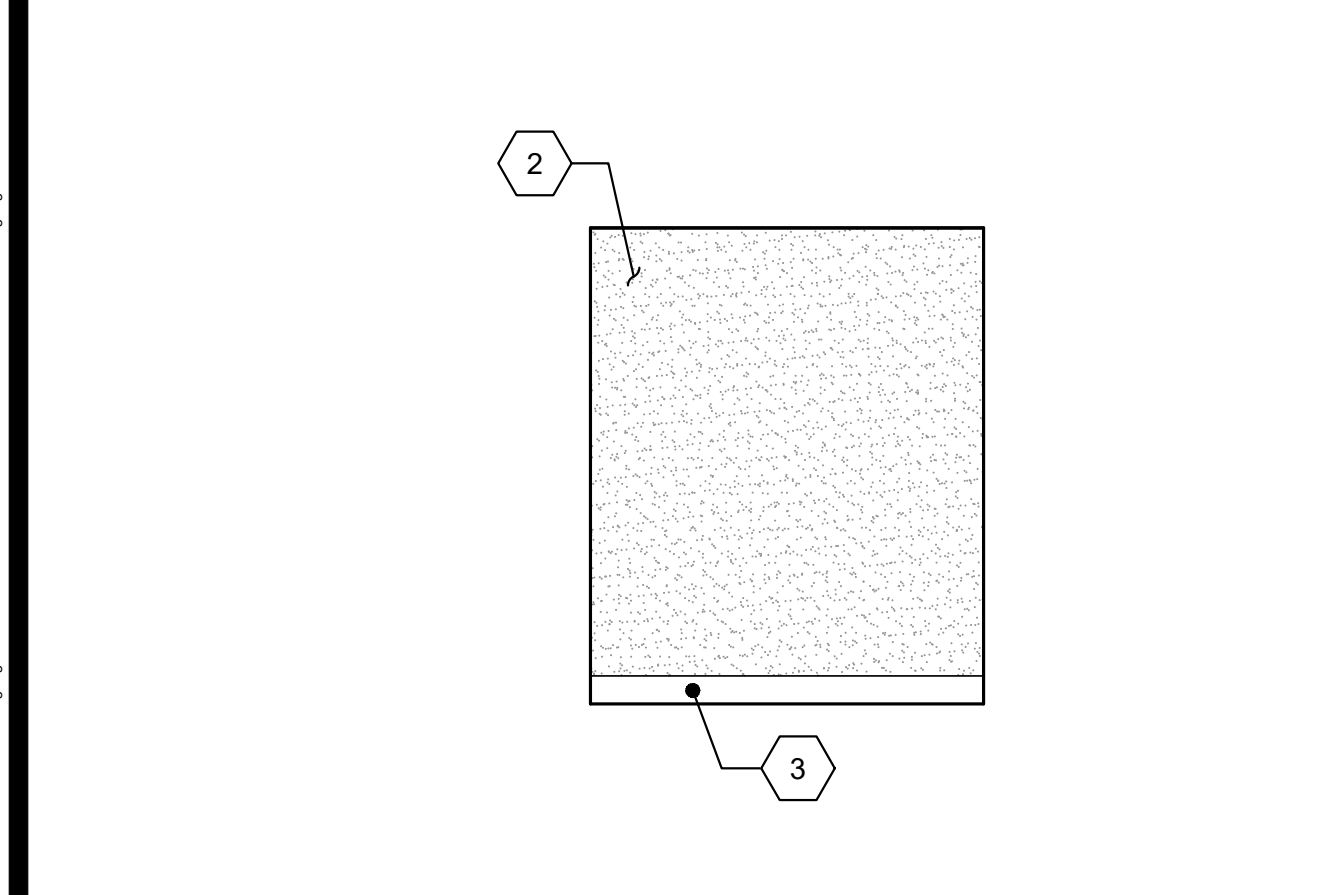


RESTROOM ENDWALL ELEV. - BOYS SCALE: 1/4" = 1'-0" 8

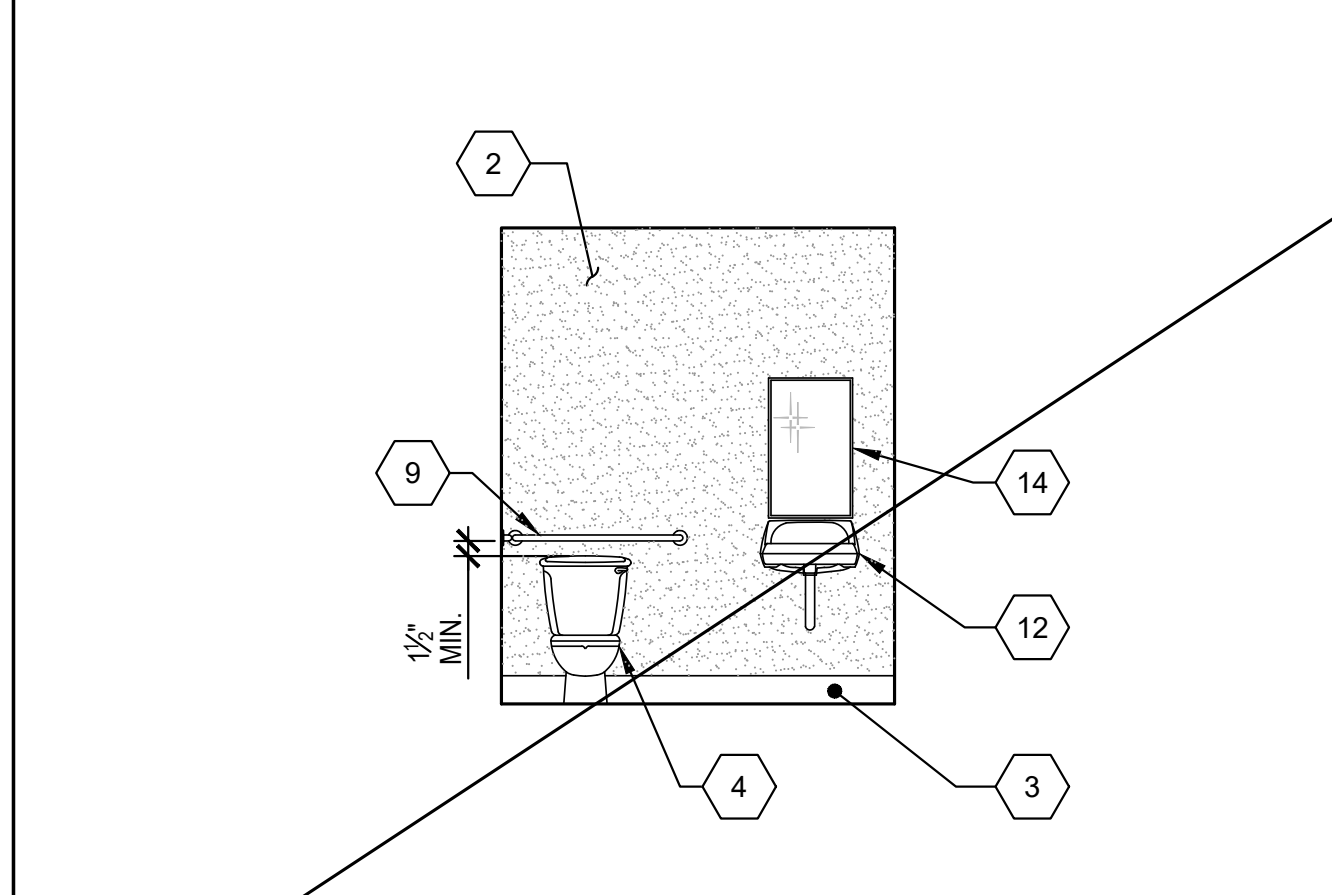


RESTROOM INTERIOR WALL ELEV. - STAFF SCALE: 1/4" = 1'-0" 9

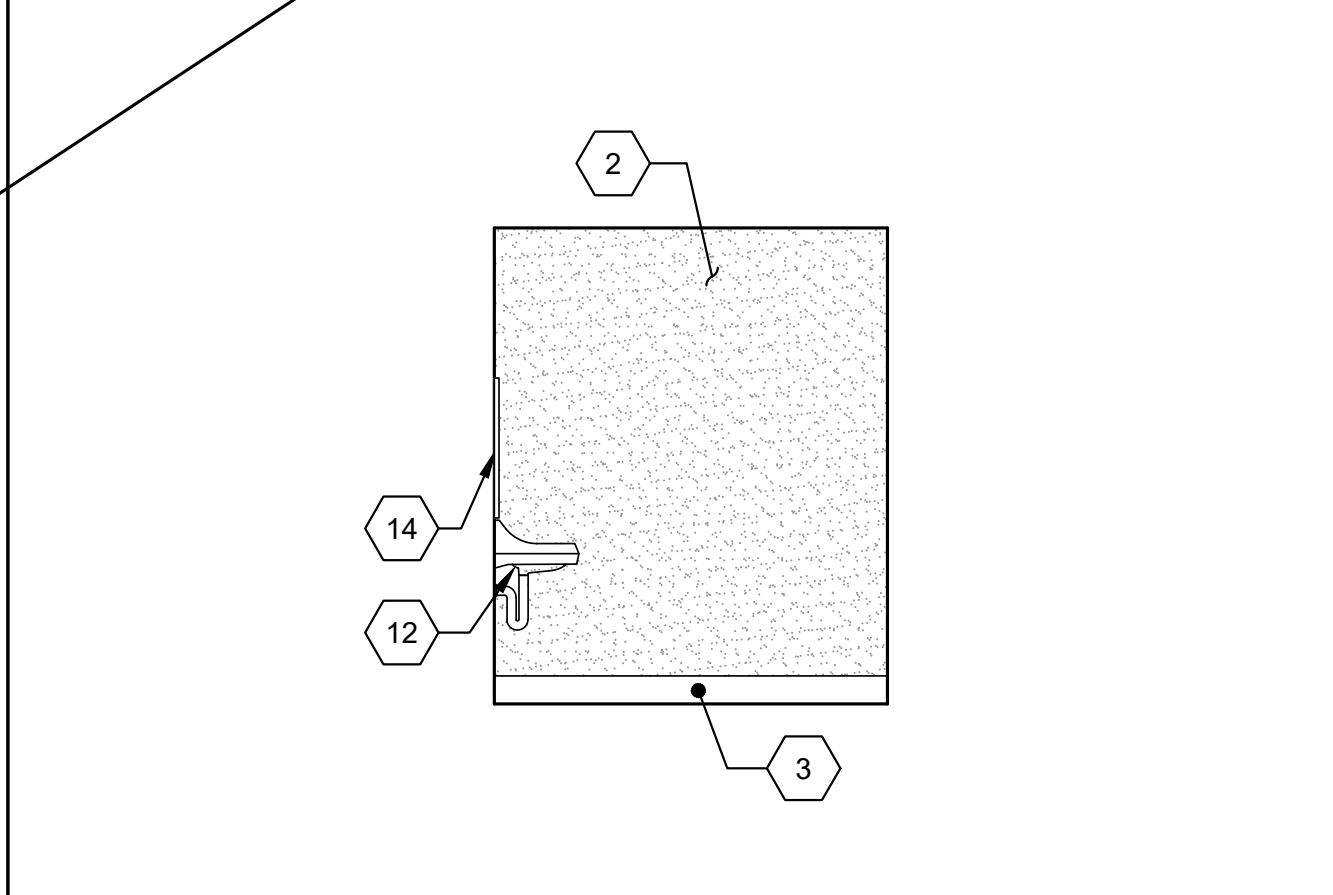
PC SHEET FOR REFERENCE



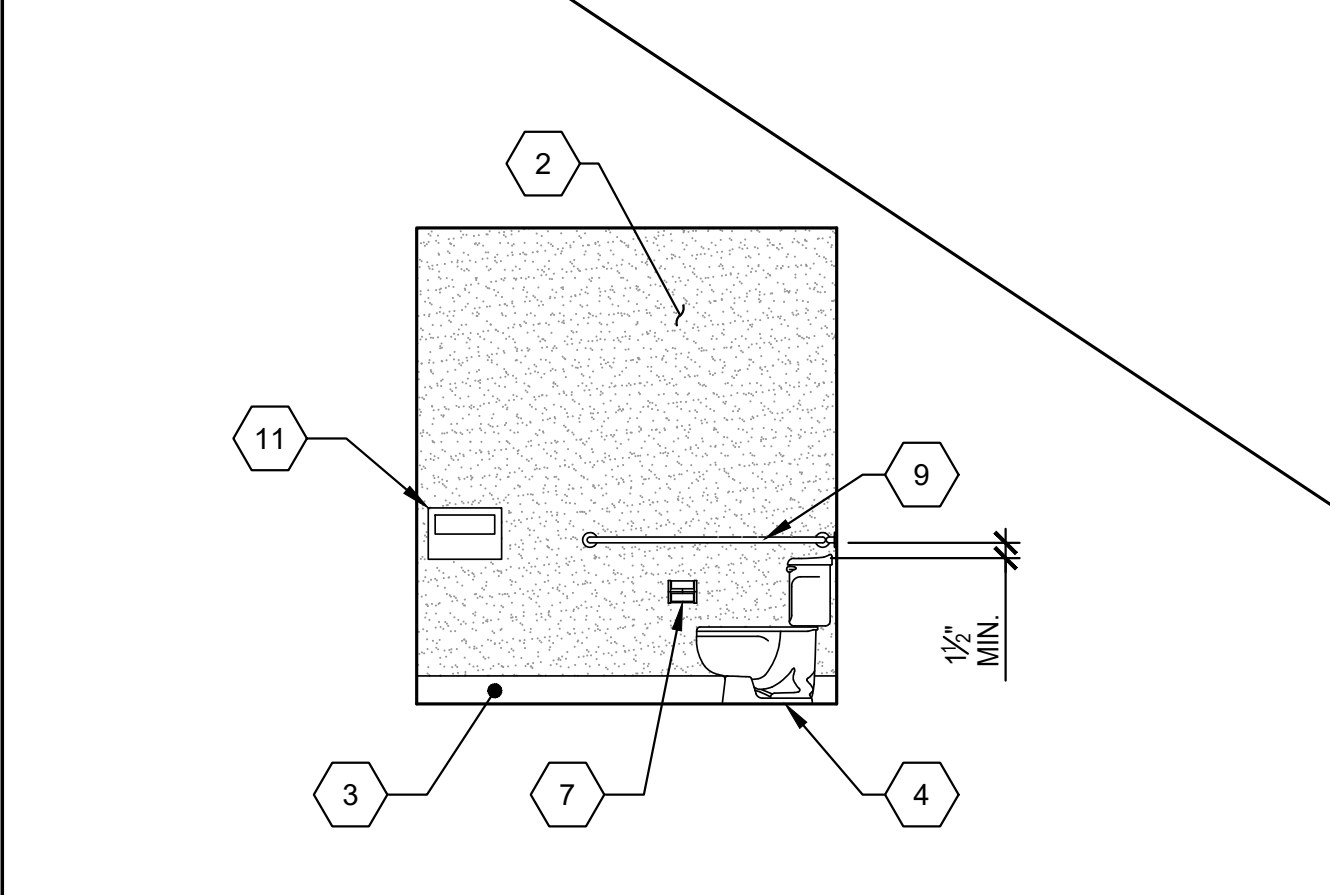
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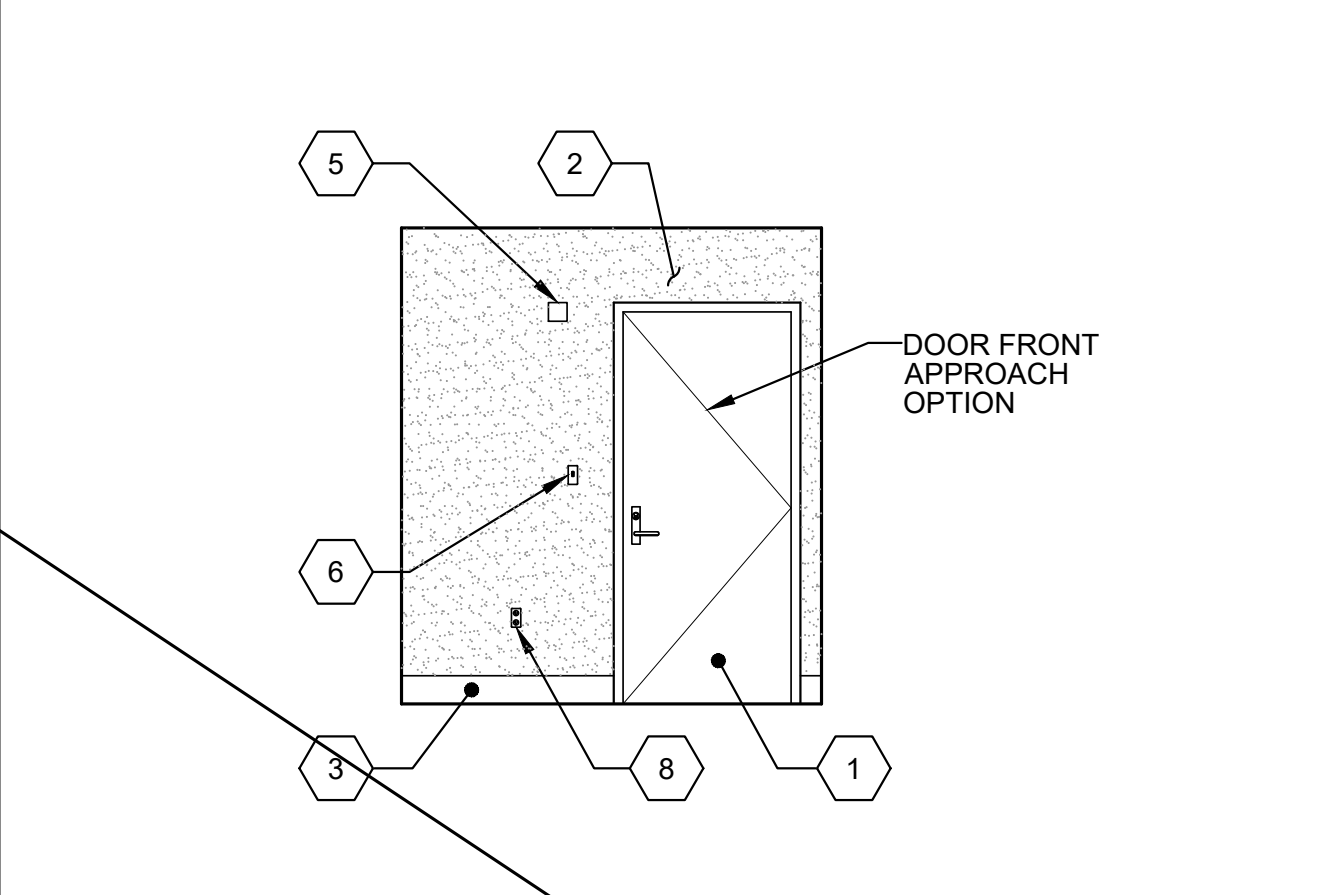
SINGLE TOILET ELEVATION - UNISEX SCALE: 1/4" = 1'-0" 11



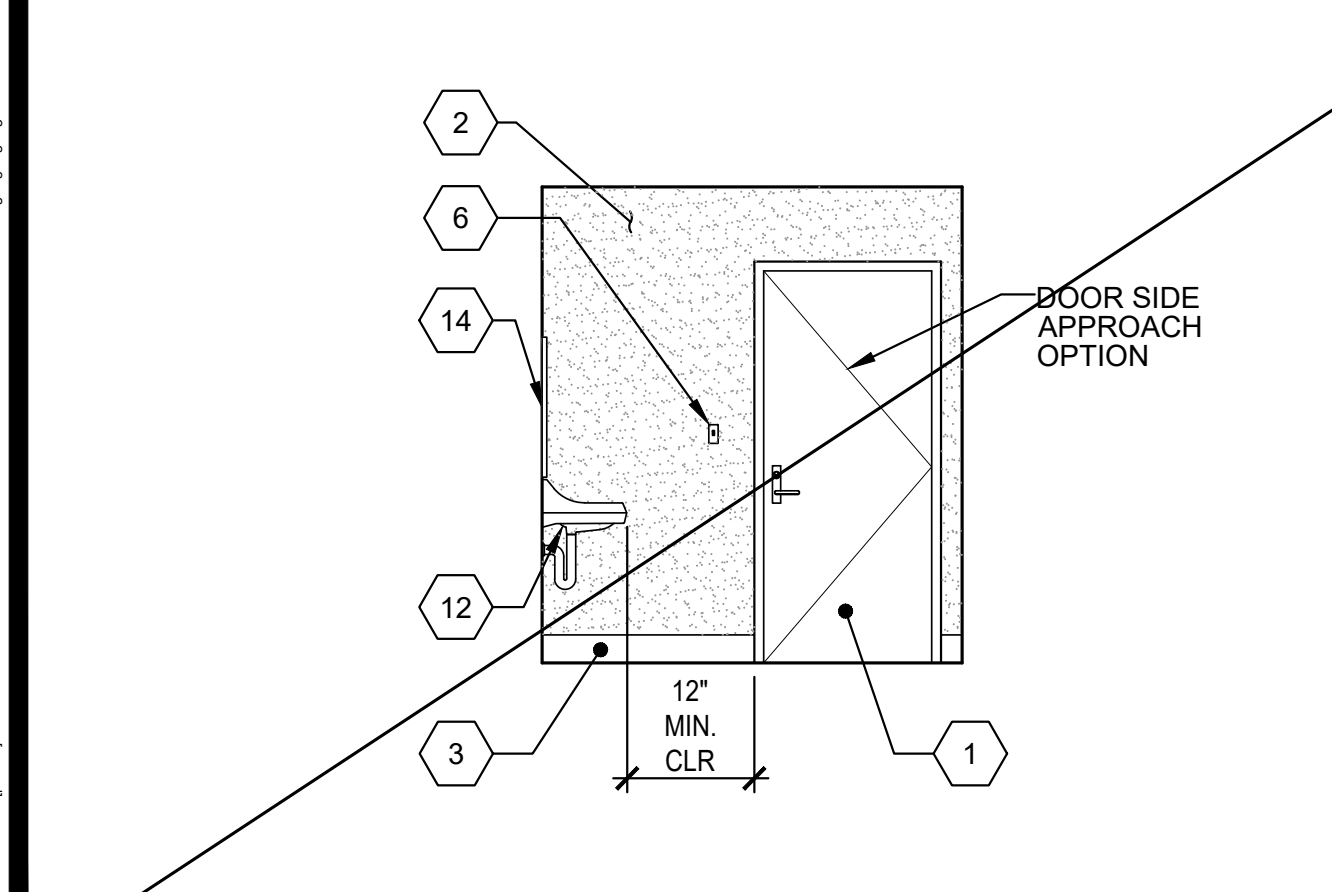
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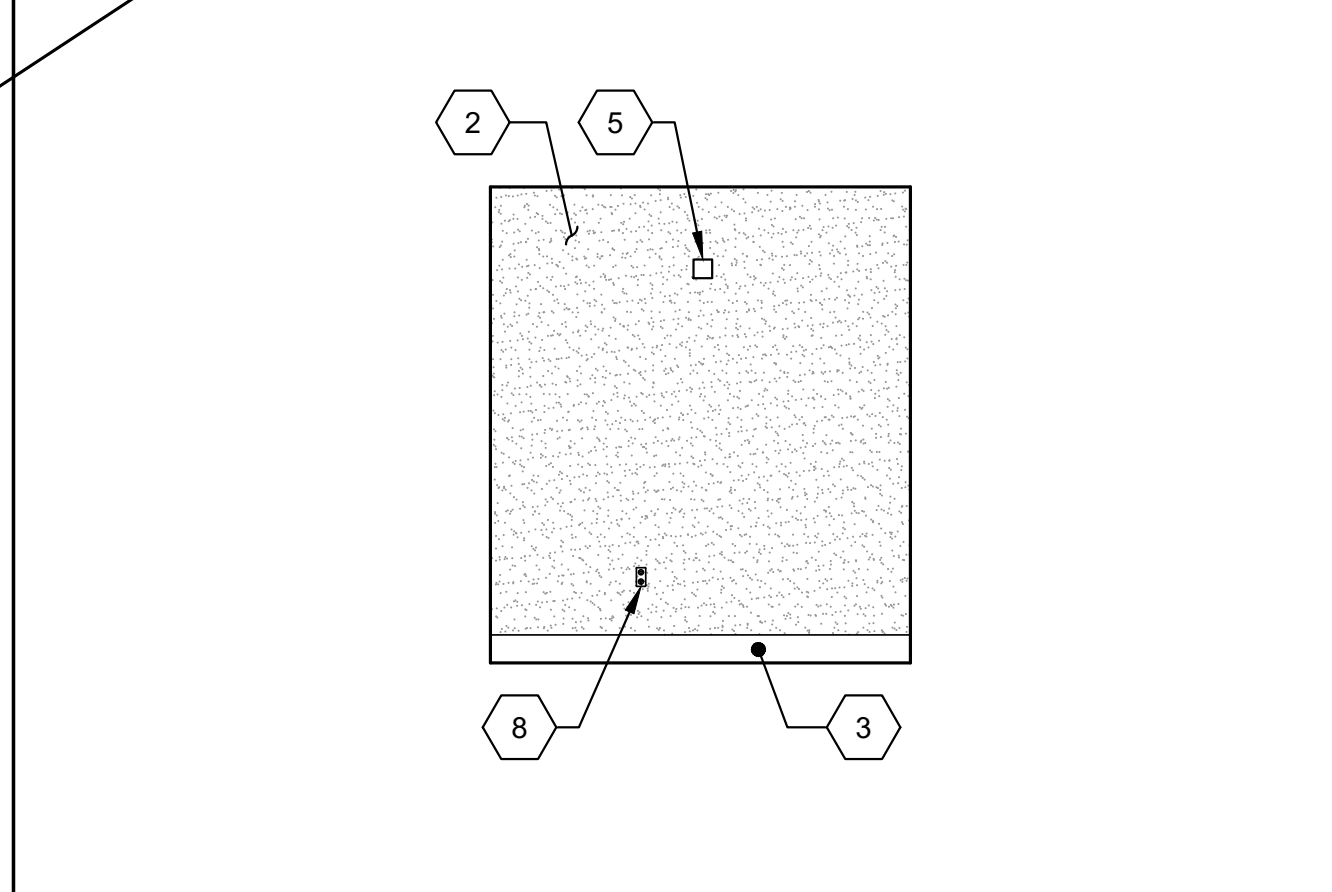
SINGLE TOILET ELEVATION - UNISEX SCALE: 1/4" = 1'-0" 13



SINGLE TOILET ELEVATION - UNISEX SCALE: 1/4" = 1'-0" 14



SINGLE TOILET ELEVATION - UNISEX SCALE: 1/4" = 1'-0" 15



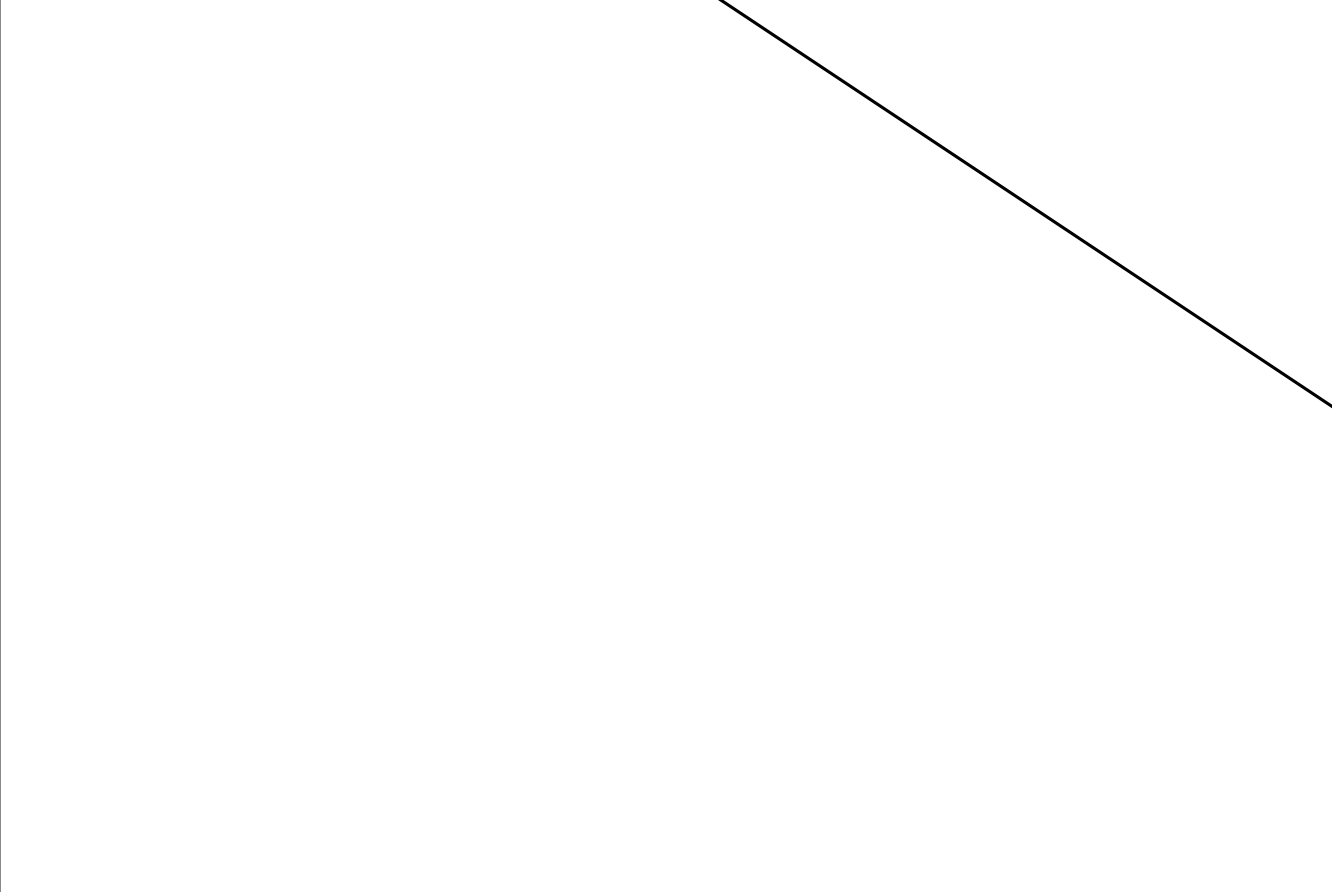
SINGLE TOILET ELEVATION - UNISEX SCALE: 1/4" = 1'-0" 16



NOT USED 17



NOT USED 18



NOT USED 19



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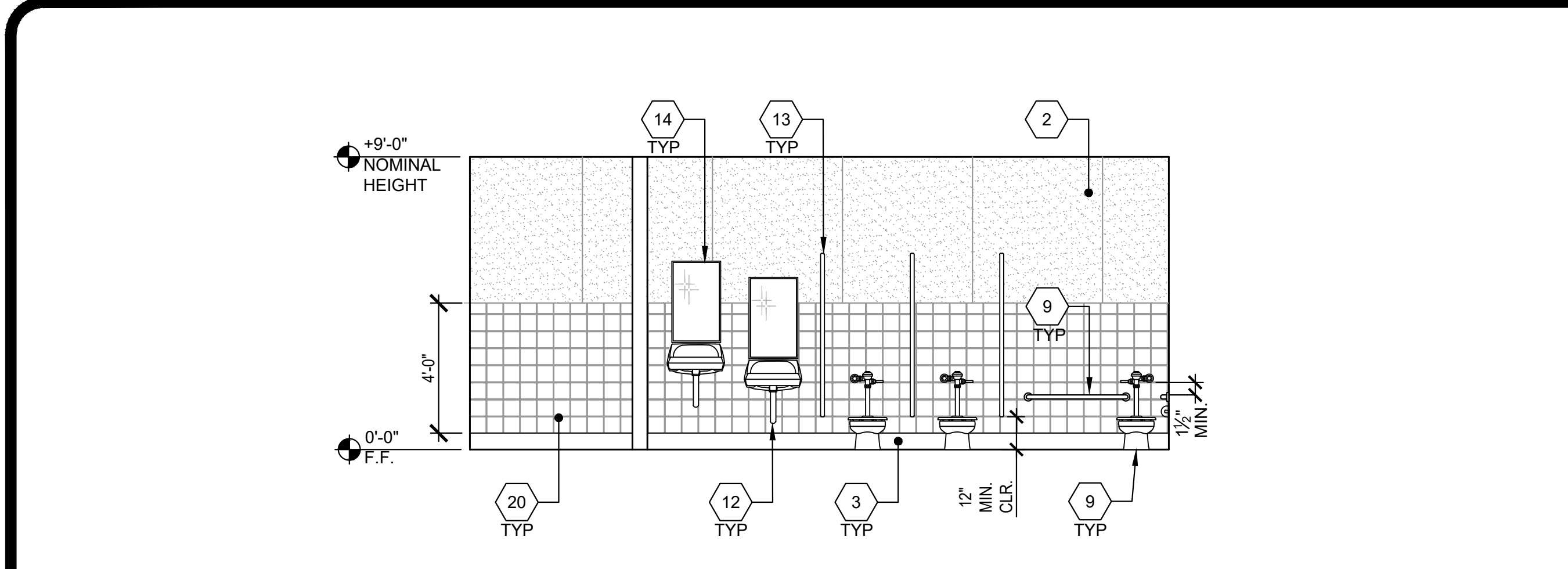
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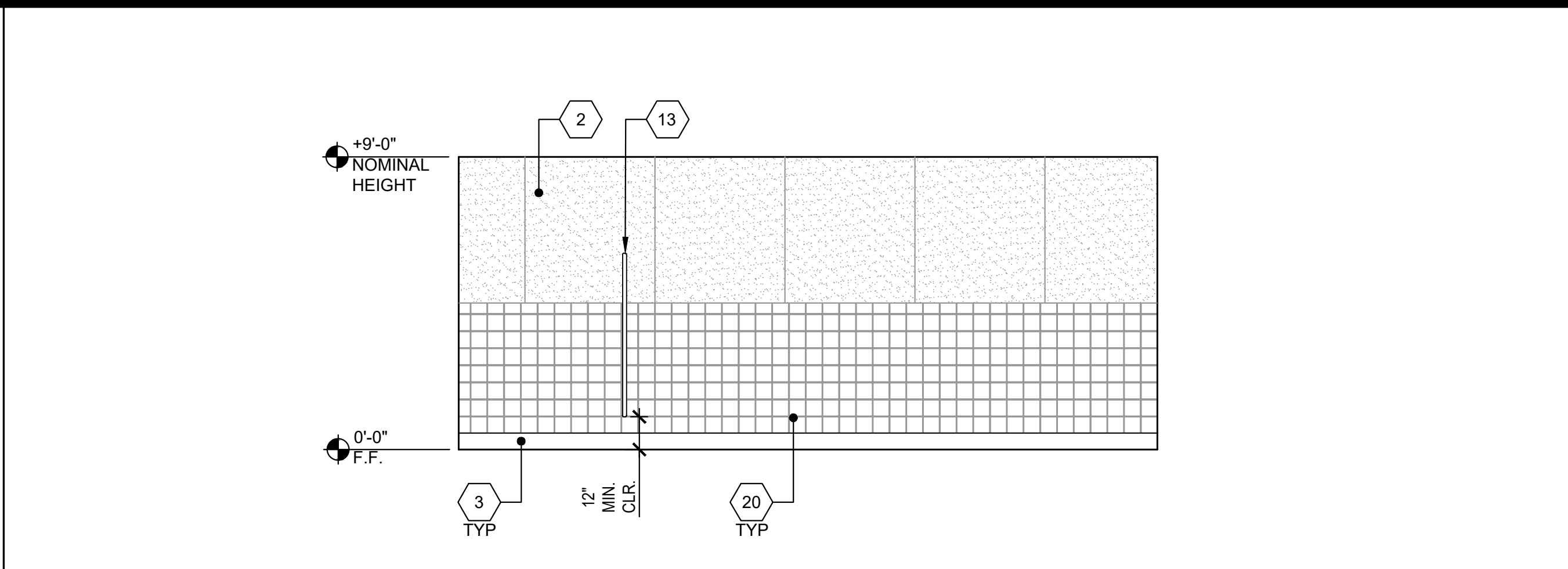
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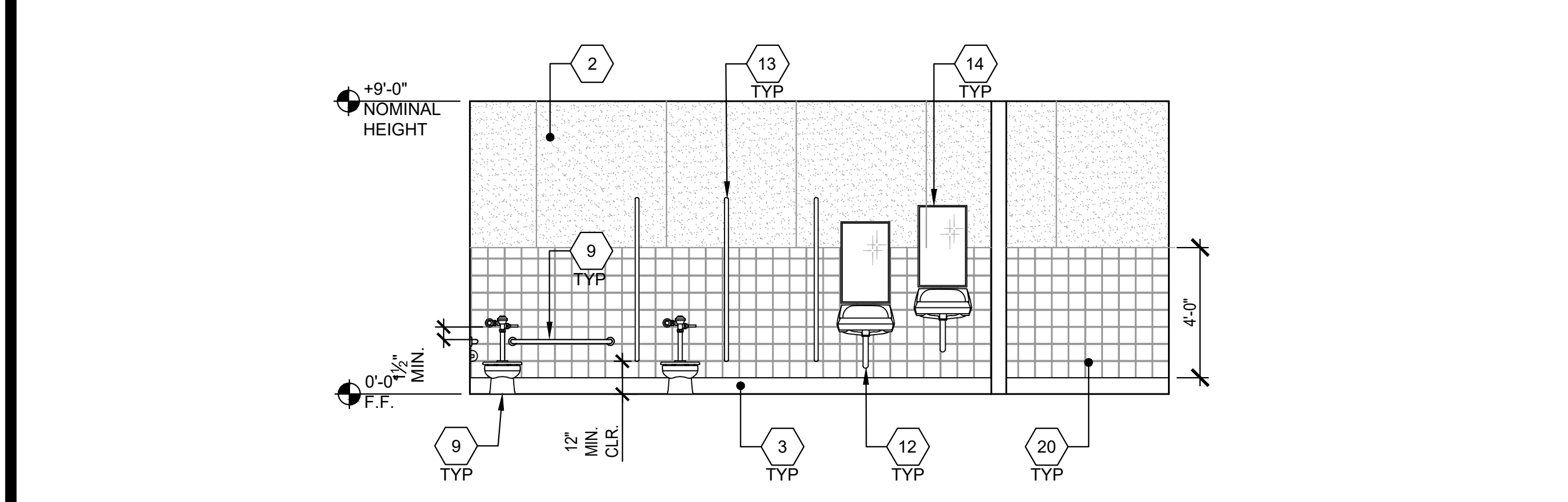
SHEET NUMBER:
A4.1-M



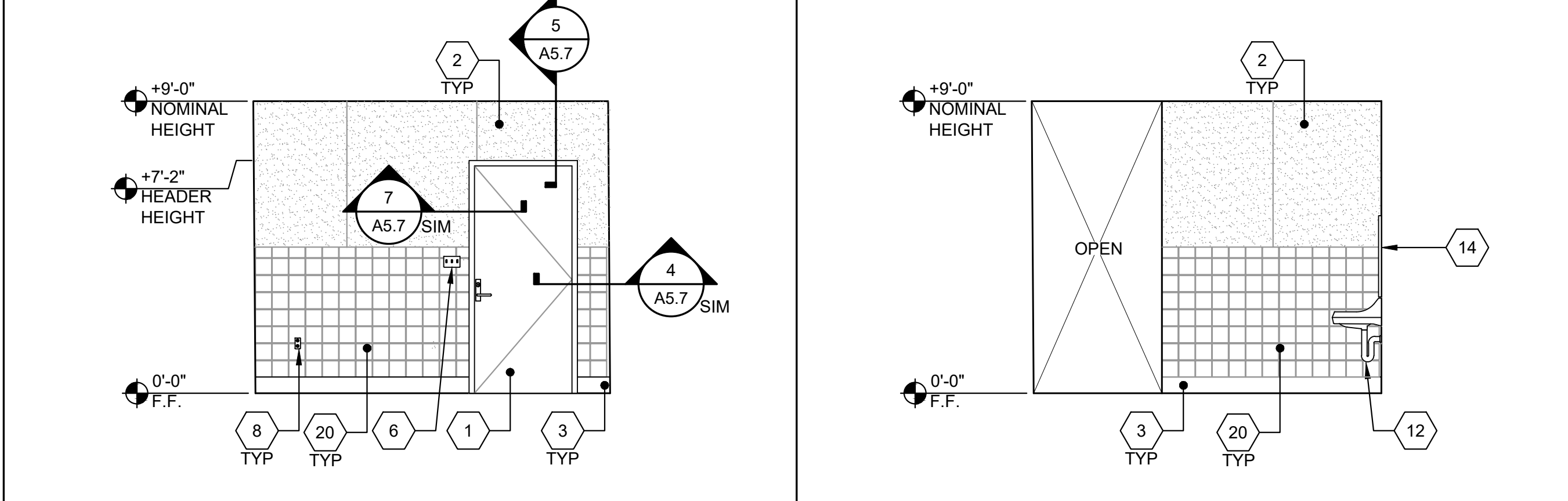
1 GIRLS RESTROOM SIDEWALL ELEVATION - 101
 AGE RANGE: 3-4 SCALE: 1/4" = 1'-0"



1 GIRLS/BOYS RESTROOM SIDEWALL ELEVATION (MIR.) - 101 & 102
 AGE RANGE: 3-4 SCALE: 1/4" = 1'-0"



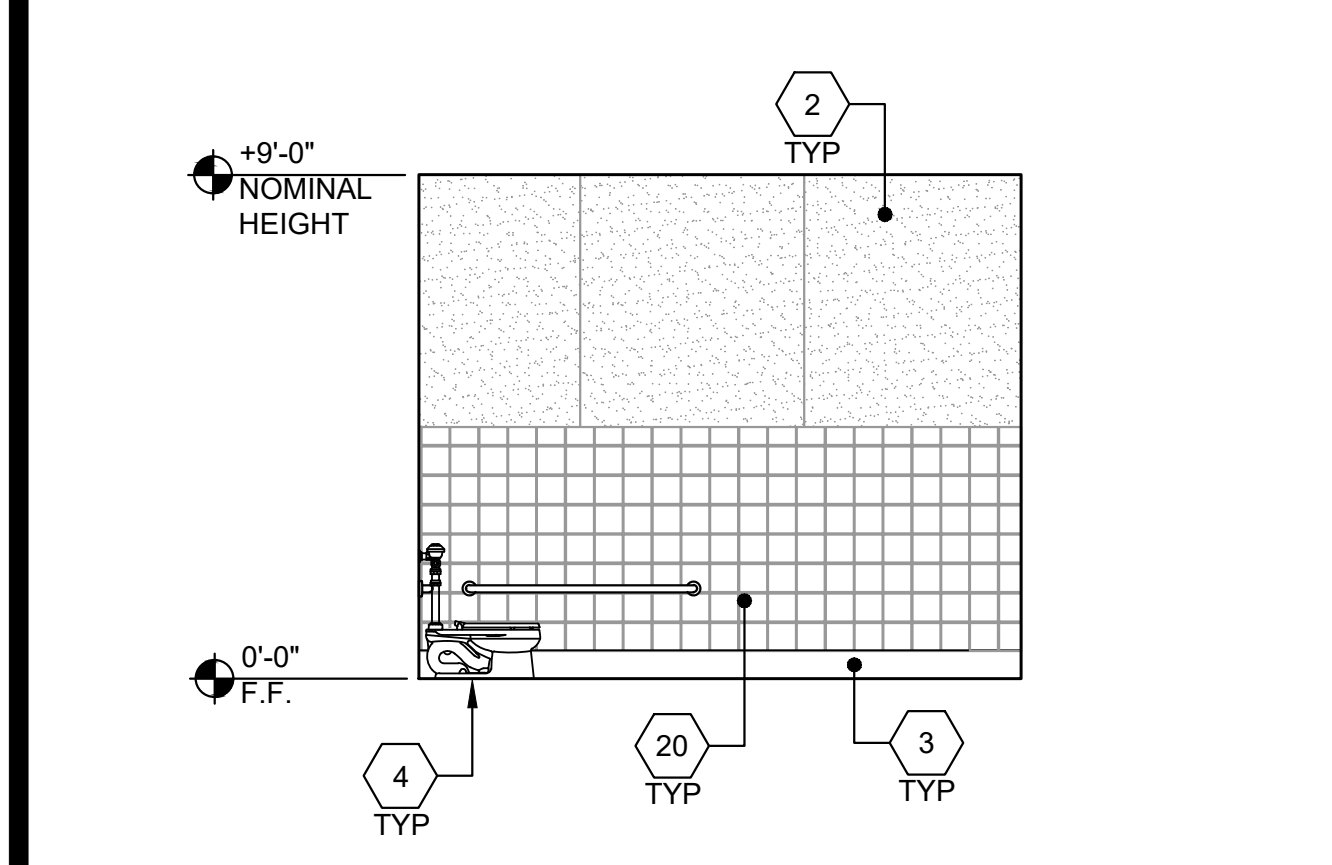
1 BOYS RESTROOM SIDEWALL ELEVATION - 101
 AGE RANGE: 3-4 SCALE: 1/4" = 1'-0"



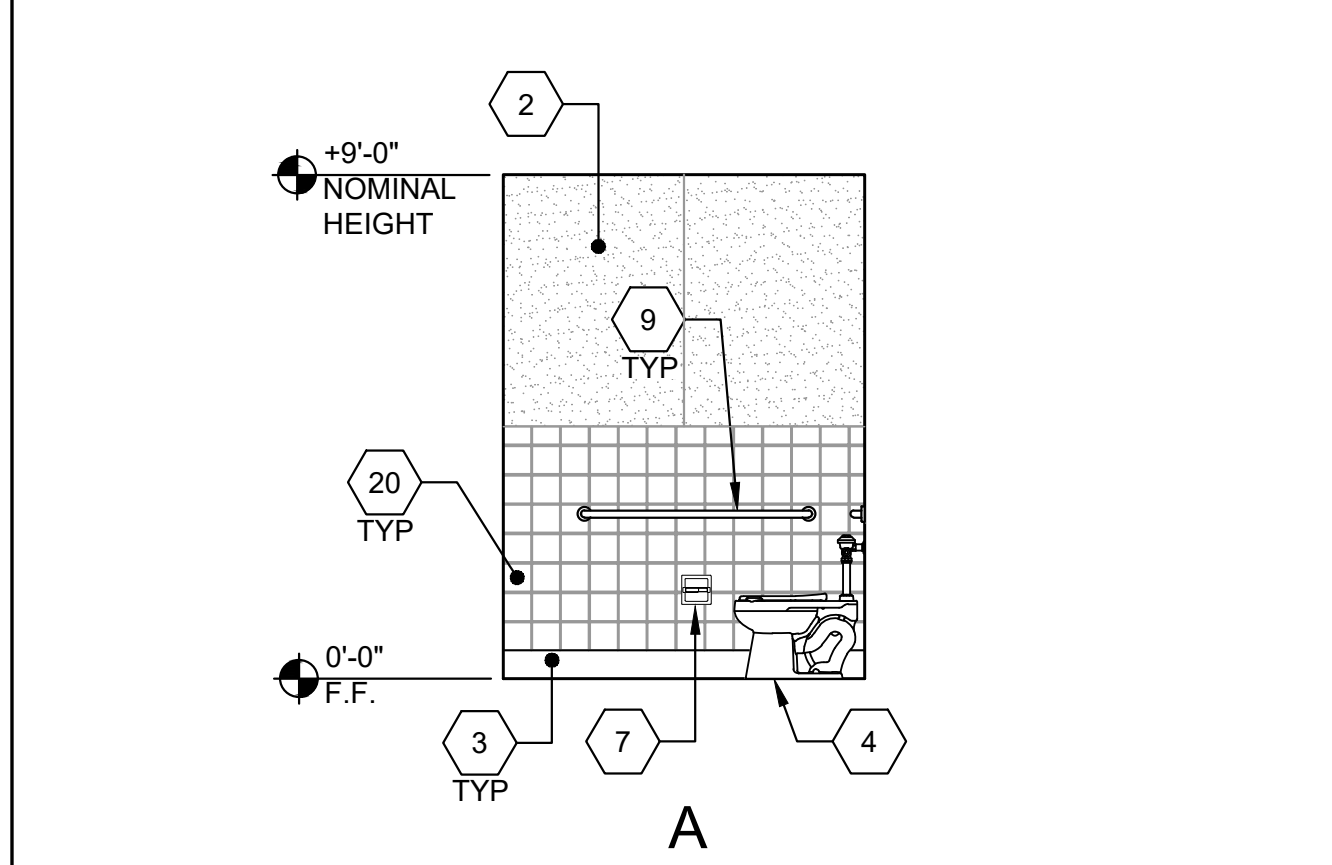
3 GIRLS/BOYS RESTROOM INTERIOR WALL (MIR.) 101 & 102
 AGE RANGE: 3-4 SCALE: 1/4" = 1'-0"

- 1 TYPICAL DOOR
 - 2 F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE +0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
 - 3 6" TOP SET BASE - REFER TO DETAIL 19/A1.2
 - 4 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
 - 5 HORN/STROBE J-BOX - SEE ELECTRICAL SHEETS
 - 6 LIGHT SWITCH - SEE ELECTRICAL SHEETS
 - 7 TOILET PAPER DISPENSER PER P.10
 - 8 TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
 - 9 GRAB BAR - SEE DETAIL 6/A7.1
 - 10 ACCESSIBLE URINAL - SEE DETAIL 15/P2.0
 - 11 TOILET SEAT COVER DISPENSER PER P.10
 - 12 ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
 - 13 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP., OR EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATINGS: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY AMS)
 - 14 TYP. MIRROR (19" MAX. WEIGHT) - SEE DETAIL 17/P2.0
 - 15 HAND DRYER
 - 16 TYP MOD. LINE
 - 17 FULL PANEL CLOSE-UP AT MOD-LINES, TYP
 - 18 ELECTRICAL WATER HEATER PER DETAIL 3/P2.0
 - 19 JANITOR SINK
 - 20 CERAMIC TILE
 - 21 RUBBER BASE
 - 22 ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
 - 23 CHANGING STATION (BY OTHERS) - SEE BLOCKING DETAIL 10I-
- NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10.

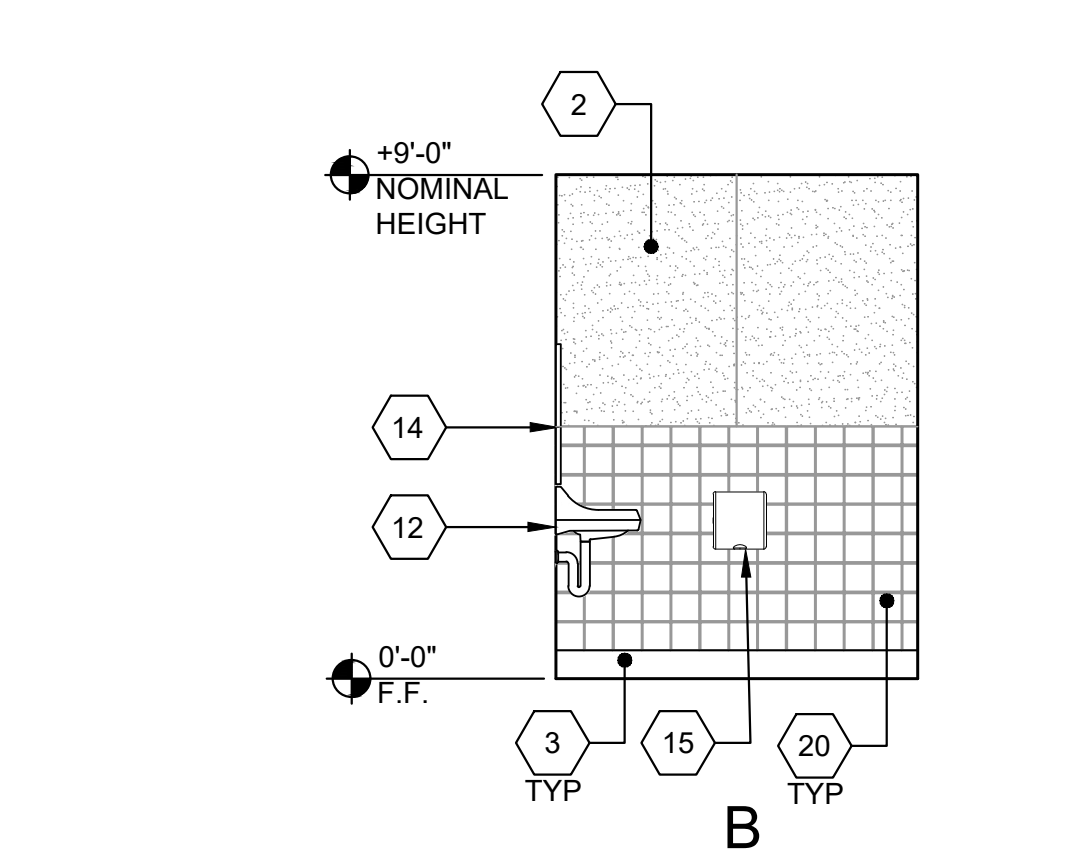
KEY NOTES



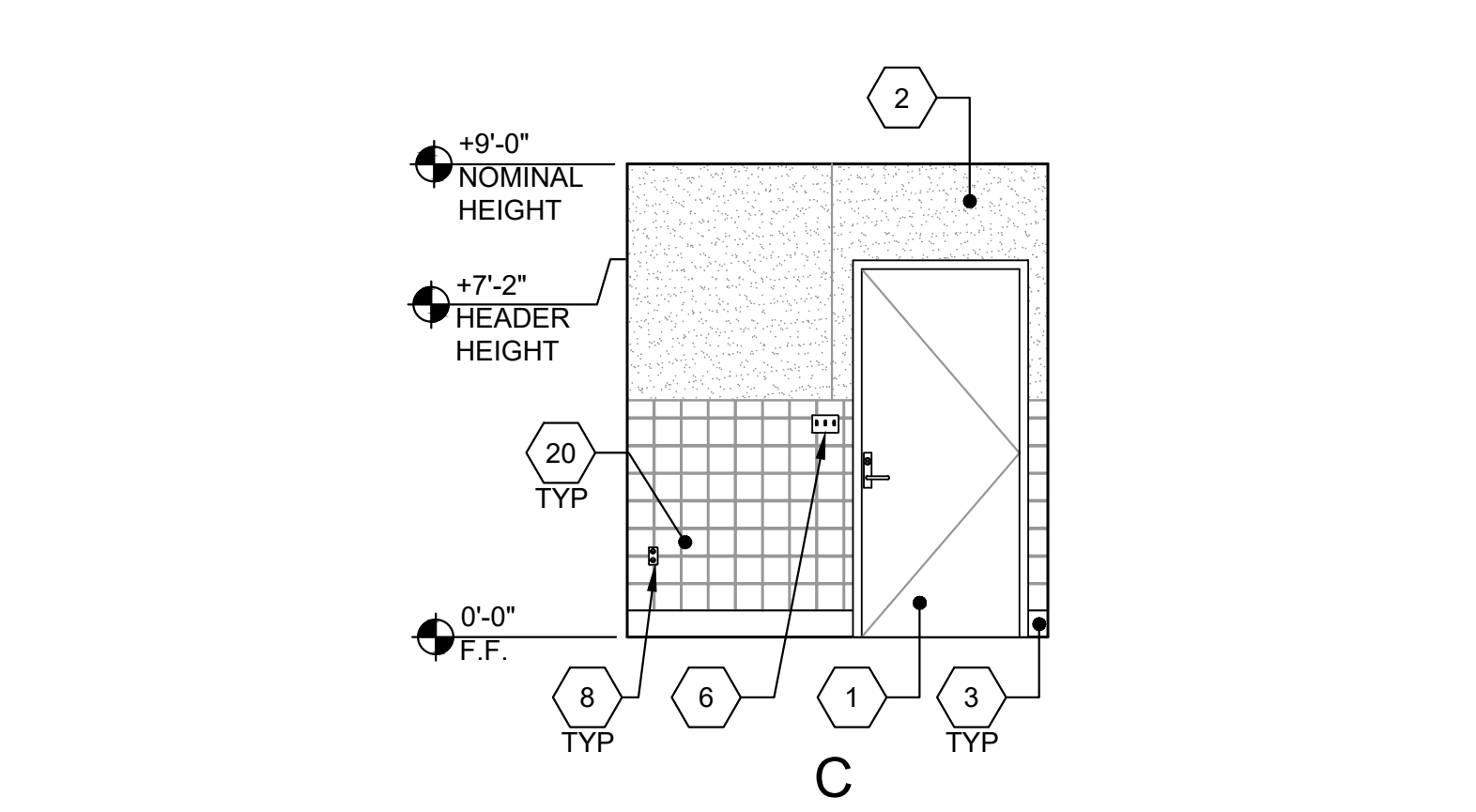
6 GIRLS/BOYS INTERIOR WALL - 101 & 102
 AGE RANGE: 3-4 SCALE: 1/4" = 1'-0"



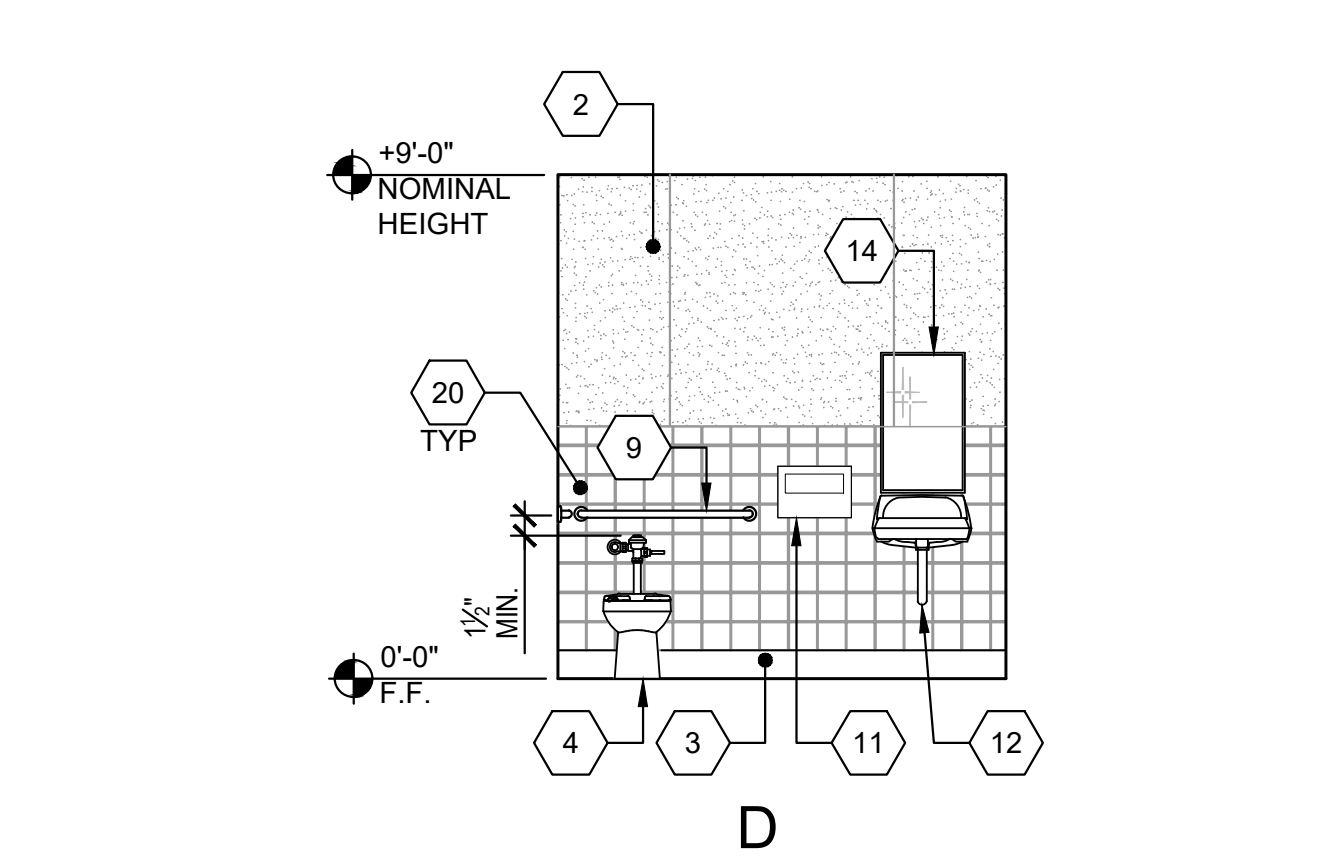
6 MEN & WOMEN INTERIOR WALL ELEV. (MIR.) - 103 & 106
 AGE RANGE: 13 ADULT SCALE: 1/4" = 1'-0"



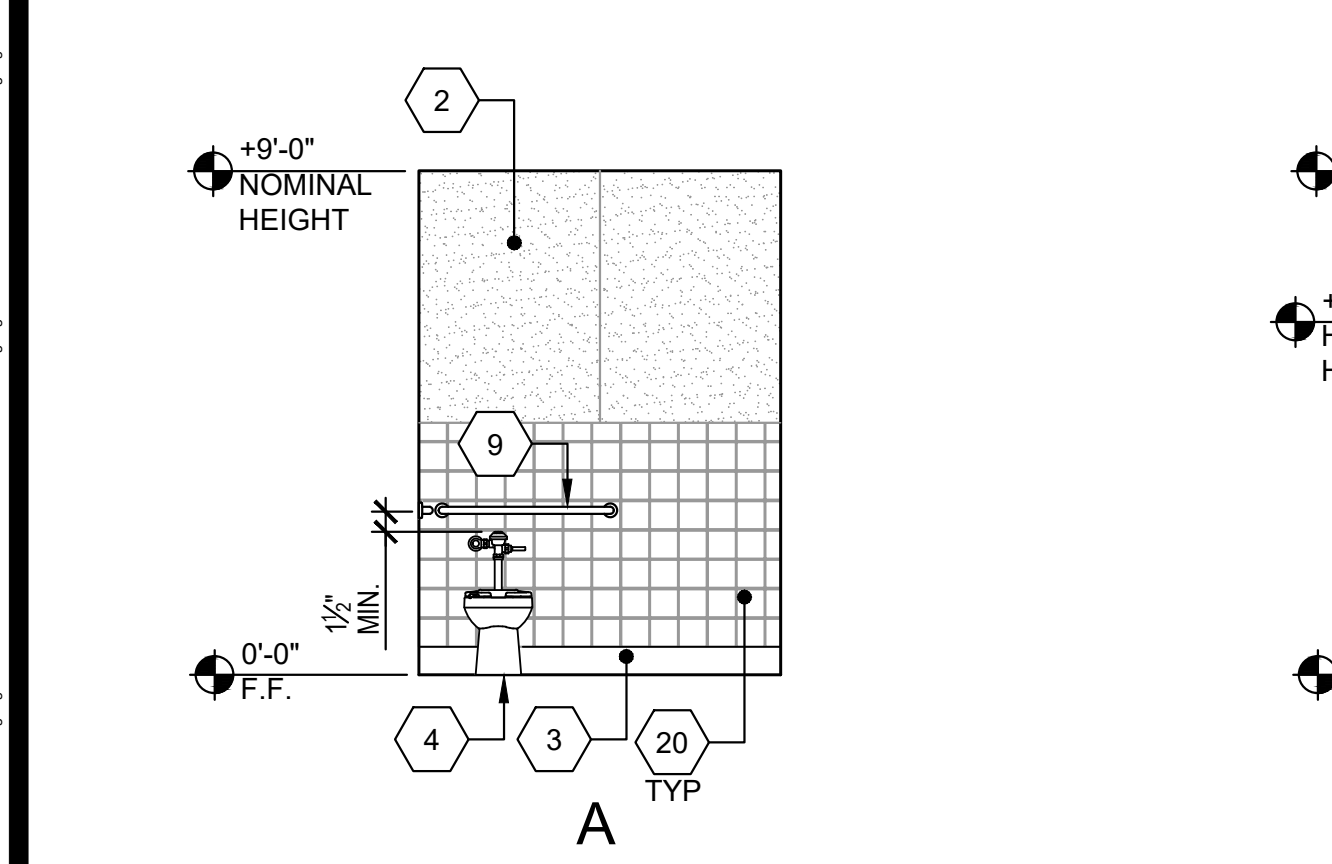
3 GIRLS/BOYS INTERIOR WALL 101 & 102
 AGE RANGE: 3-4 SCALE: 1/4" = 1'-0"



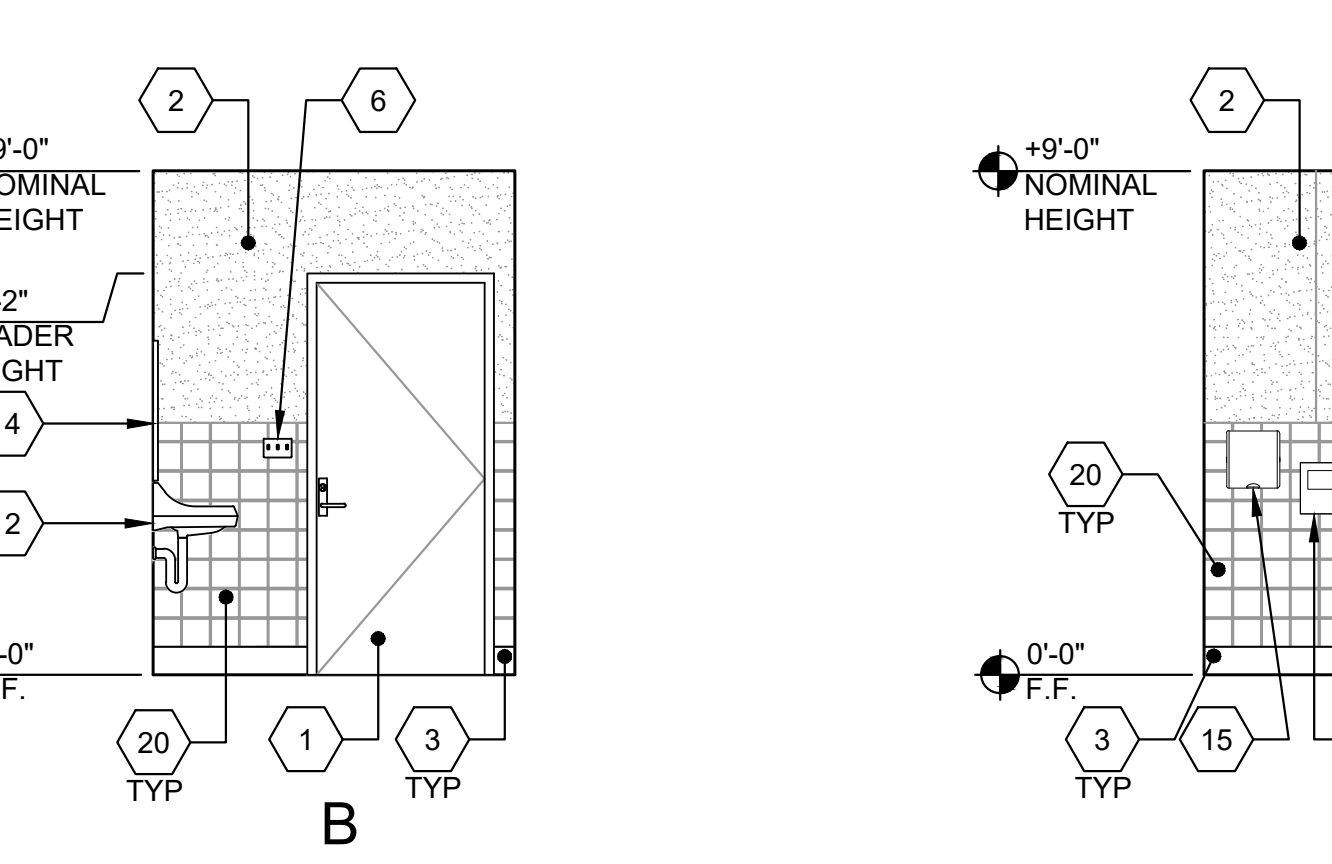
5 GIRLS/BOYS INTERIOR WALL 101 & 102
 AGE RANGE: 3-4 SCALE: 1/4" = 1'-0"



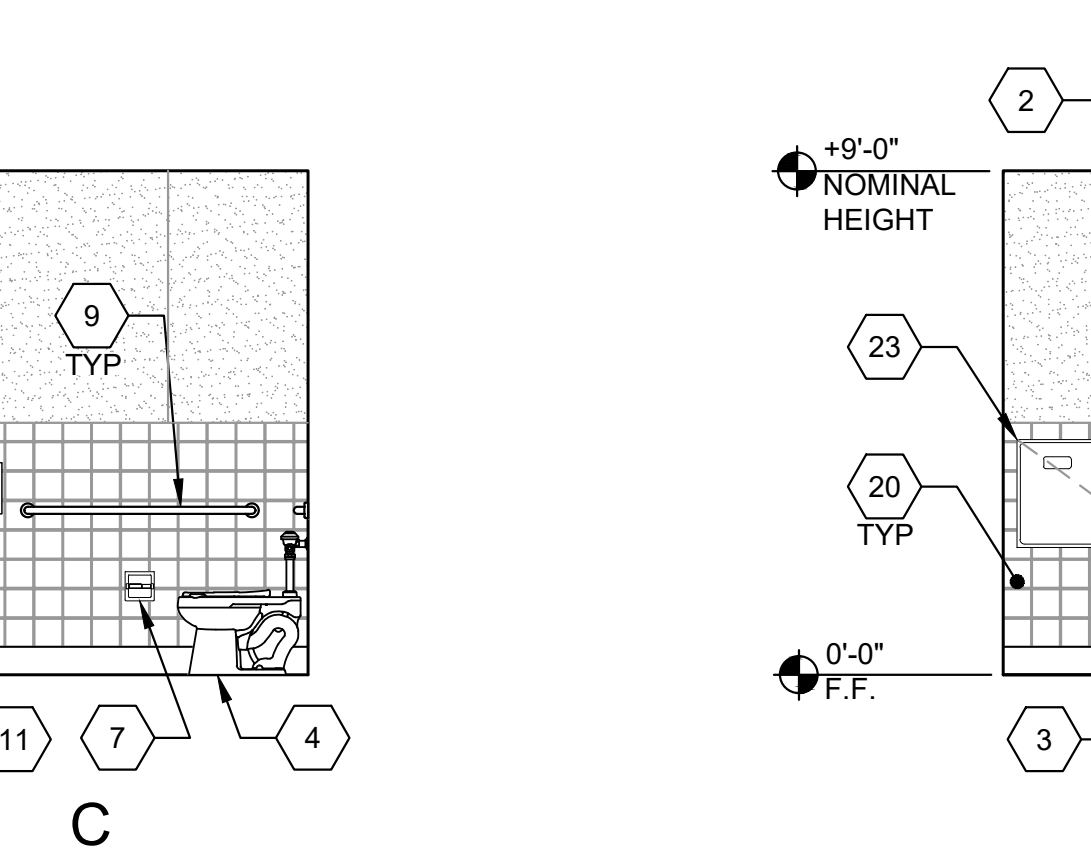
7 UNISEX RESTROOM INTERIOR ELEVATIONS (MIR.) - 104 & 107
 AGE RANGE: 13 ADULT SCALE: 1/4" = 1'-0"



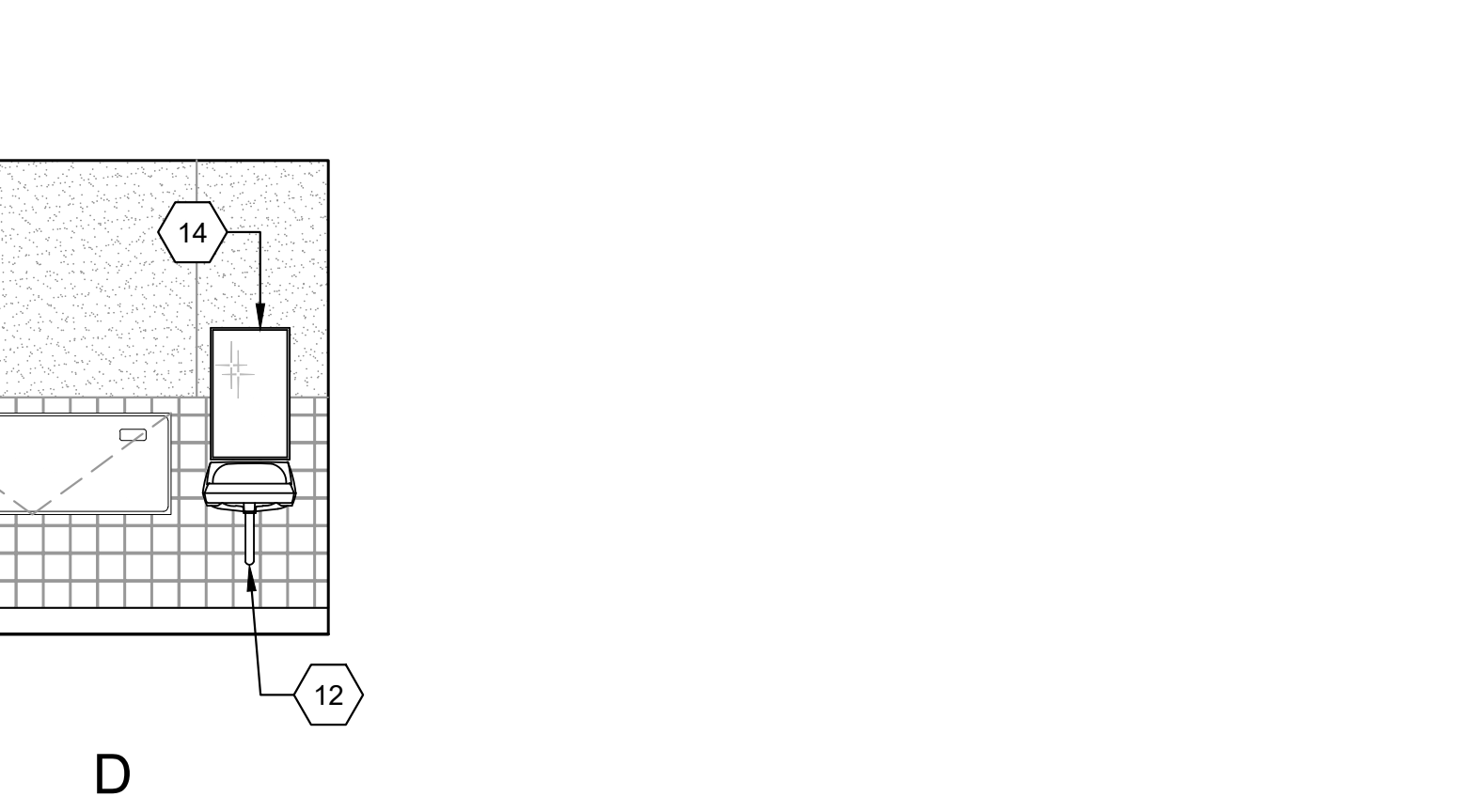
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 AGE RANGE: 13 ADULT SCALE: 1/4" = 1'-0"



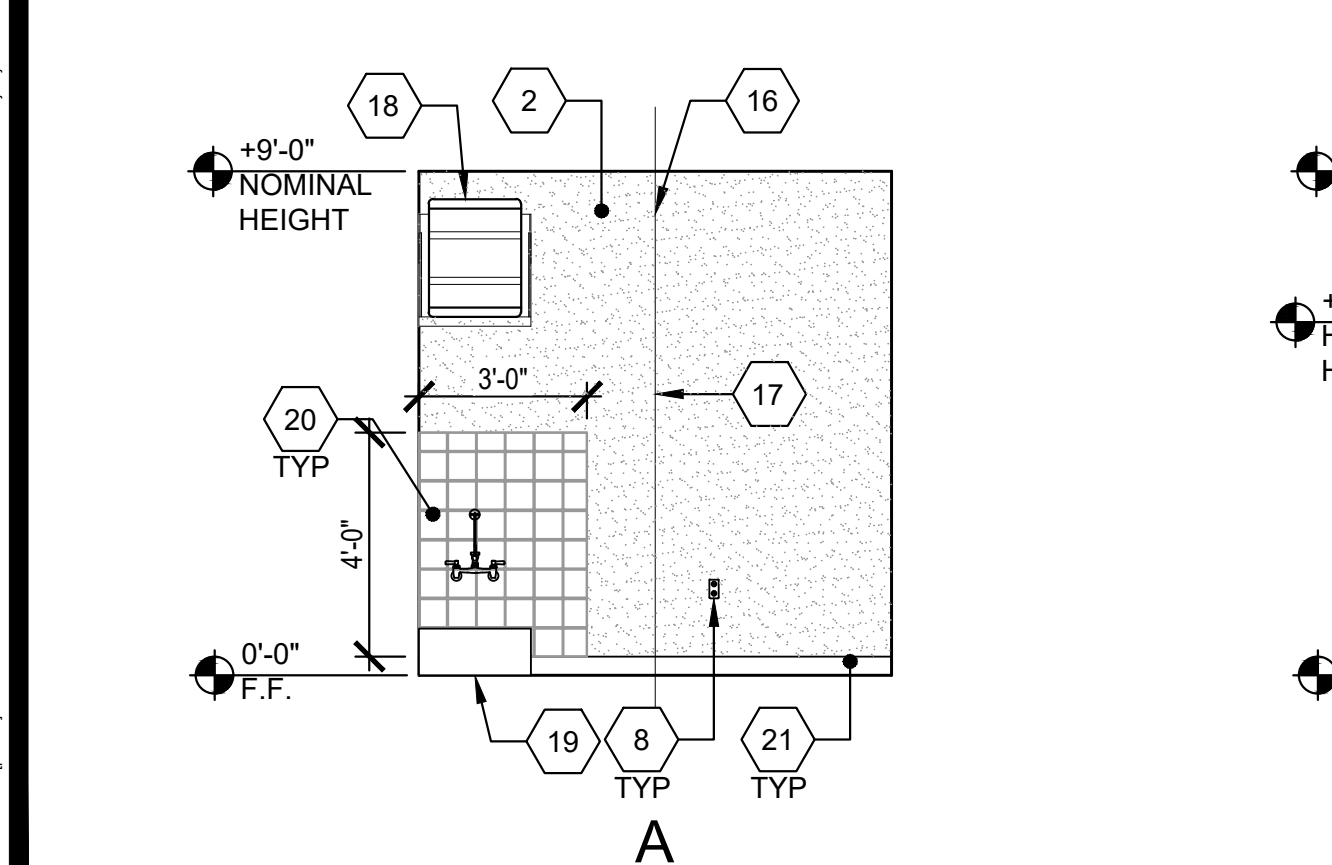
7 UNISEX RESTROOM INTERIOR ELEVATIONS (MIR.) - 104 & 107
 AGE RANGE: 13 ADULT SCALE: 1/4" = 1'-0"



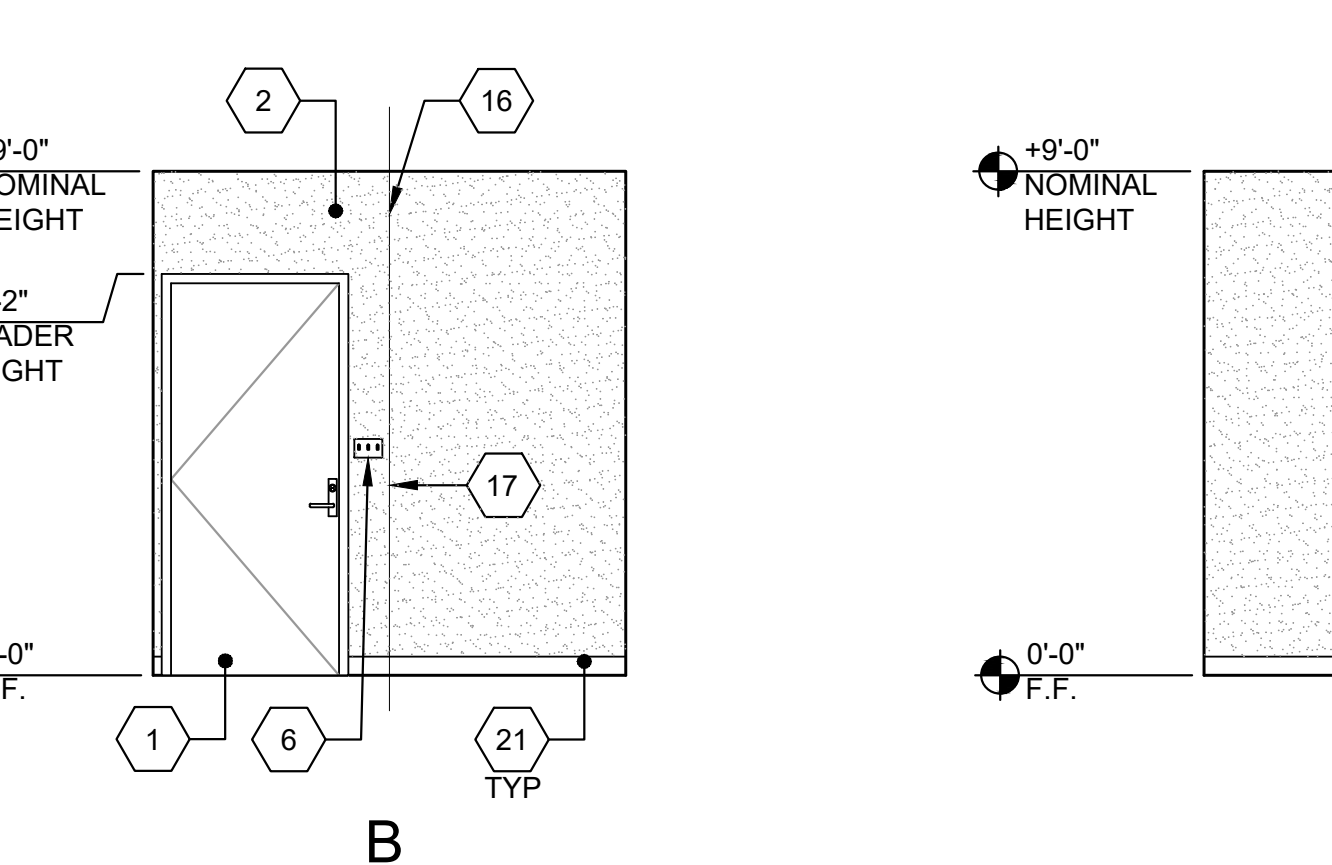
7 UNISEX RESTROOM INTERIOR ELEVATIONS (MIR.) - 104 & 107
 AGE RANGE: 13 ADULT SCALE: 1/4" = 1'-0"



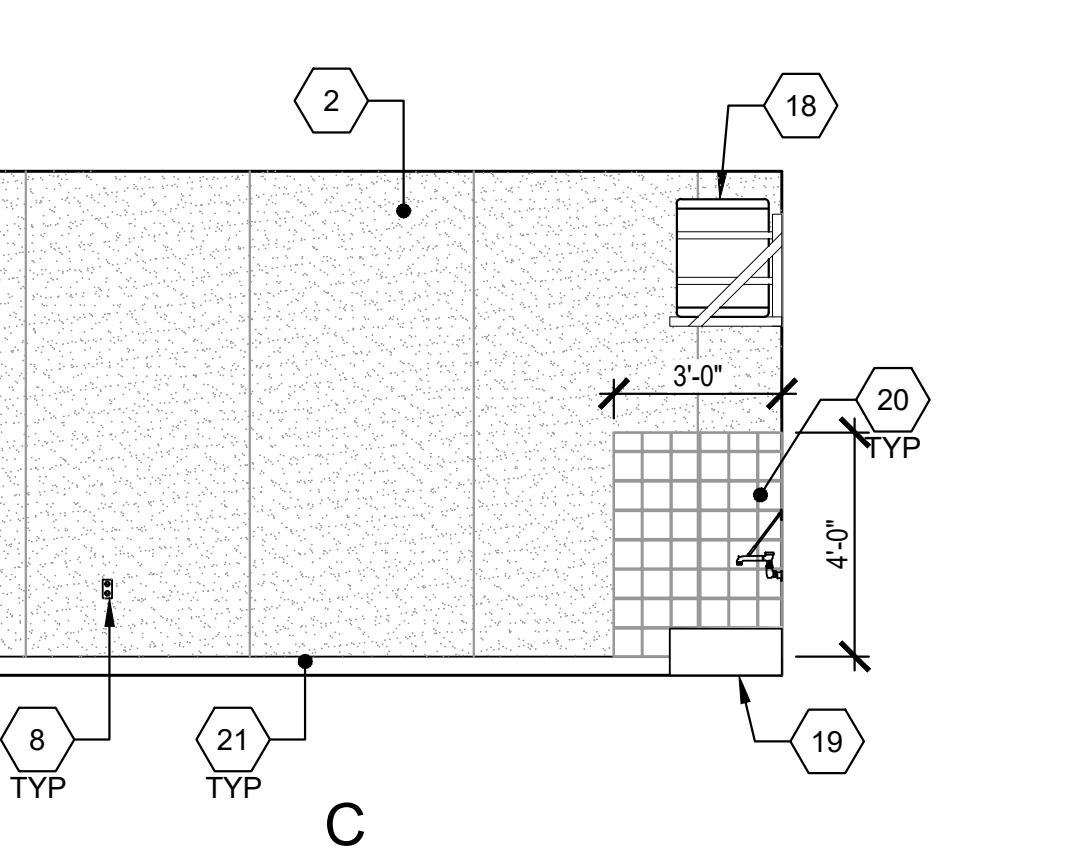
7 UNISEX RESTROOM INTERIOR ELEVATIONS (MIR.) - 104 & 107
 AGE RANGE: 13 ADULT SCALE: 1/4" = 1'-0"



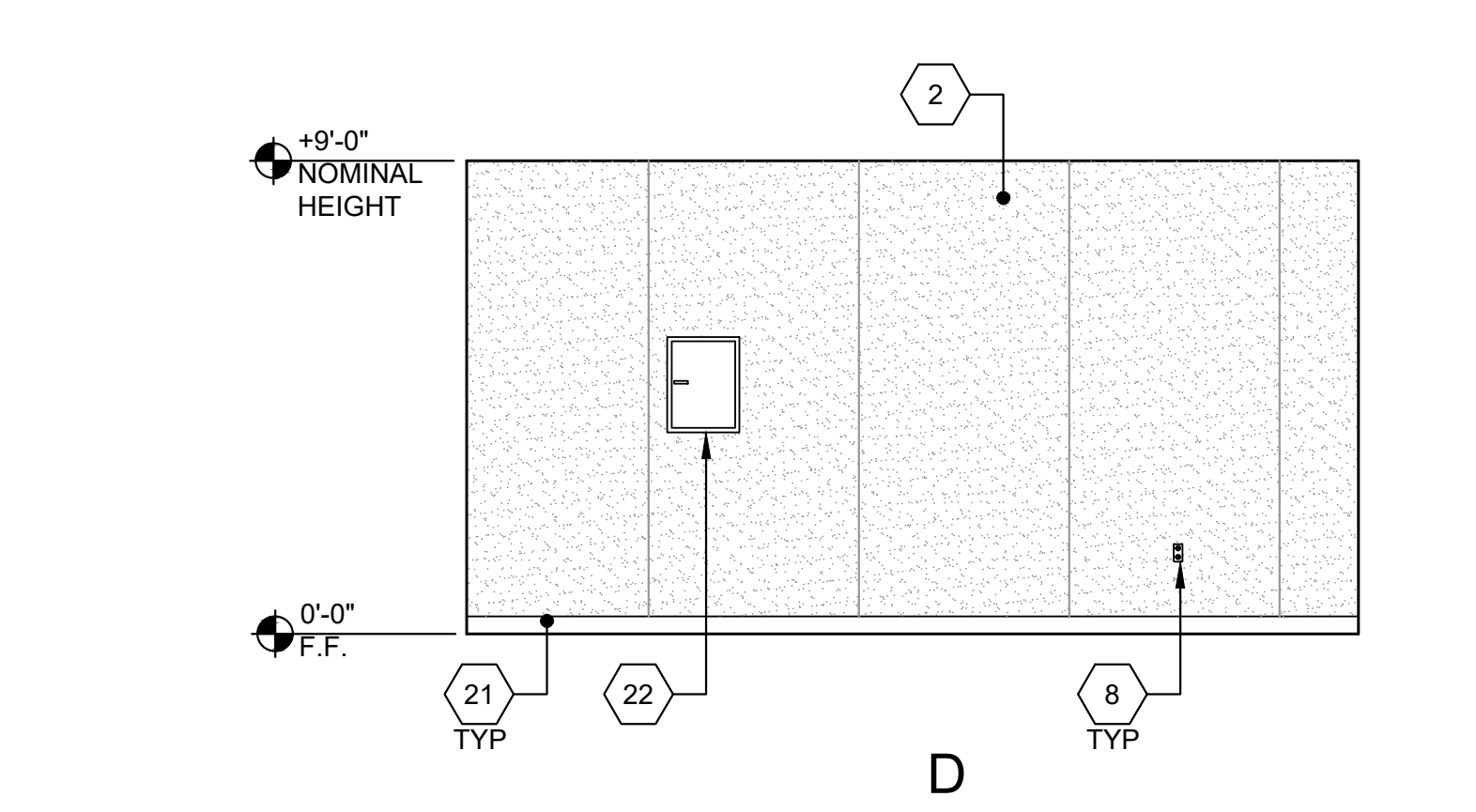
9 JAN/WH ROOM 105
 SCALE: 1/4" = 1'-0"



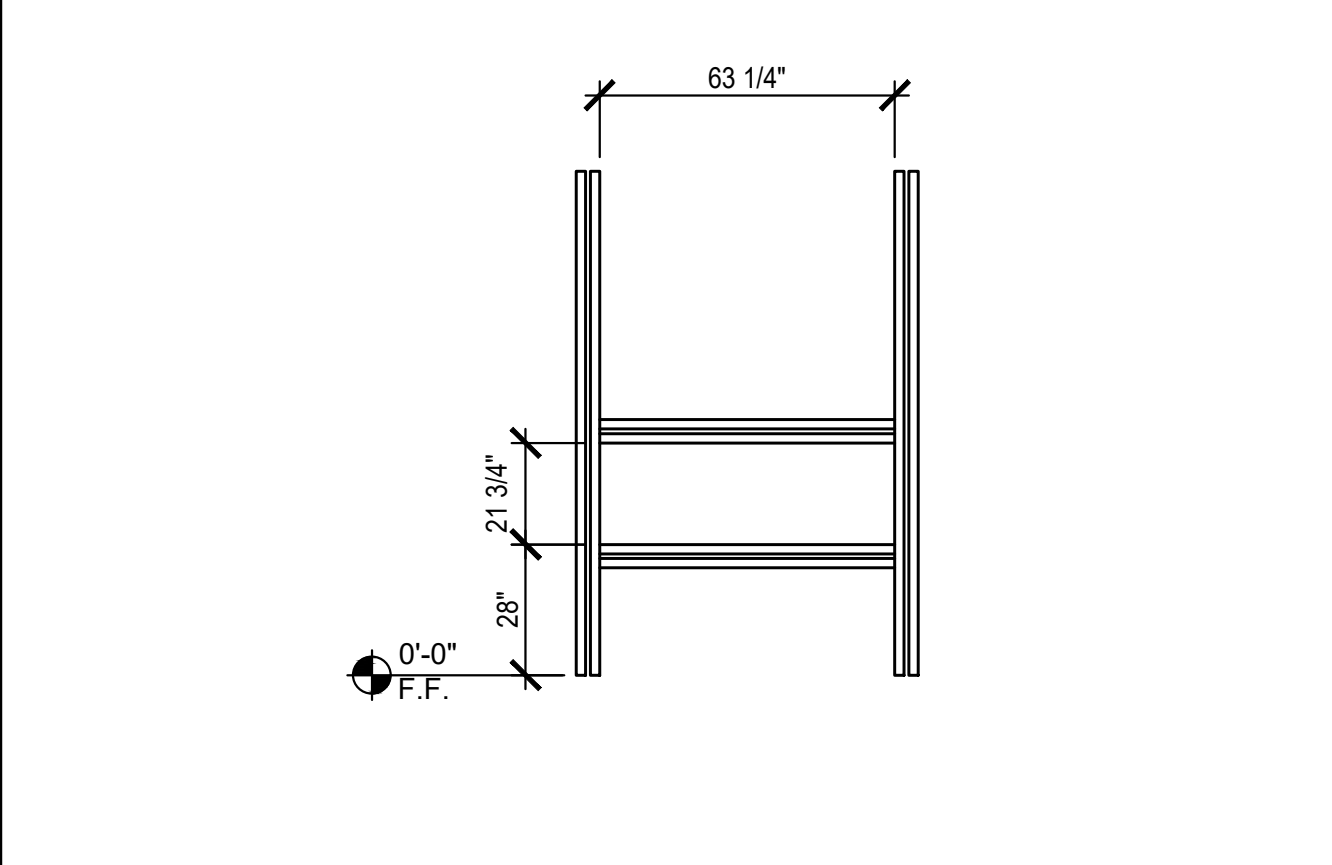
9 JAN/WH ROOM 105
 SCALE: 1/4" = 1'-0"



9 JAN/WH ROOM 105
 SCALE: 1/4" = 1'-0"



9 JAN/WH ROOM 105
 SCALE: 1/4" = 1'-0"



9 CHANGING STATION BLOCKING DETAIL
 SCALE: 1/4" = 1'-0"

10

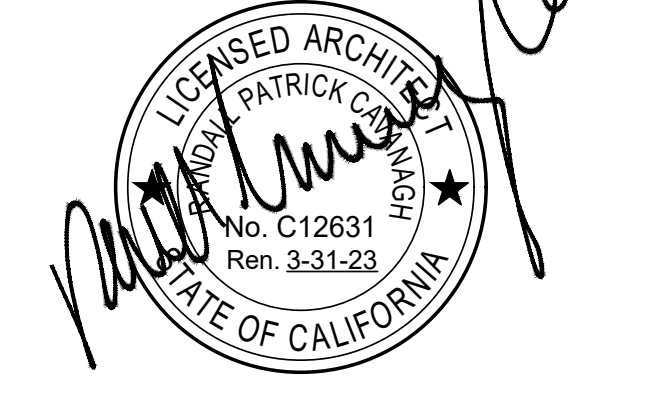


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC

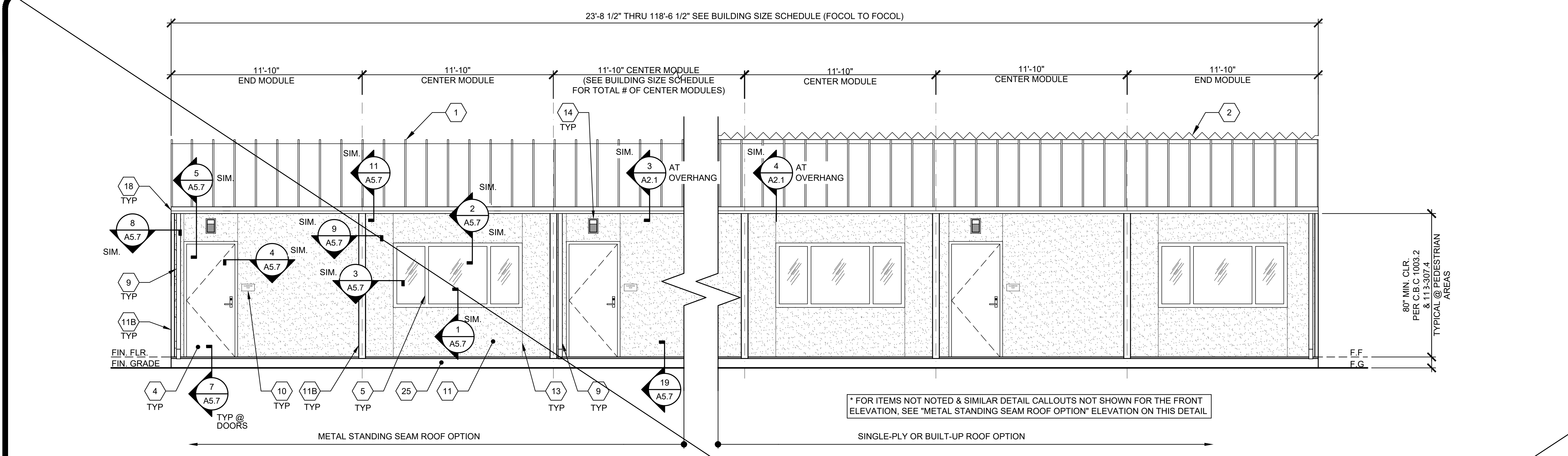


- 1 STANDING SEAM METAL ROOFING
- 2 SINGLE-PLY OR BUILT-UP ROOFING
- 3 OVERHANG - SEE STRUCTURAL
- 4 TYP EXTERIOR DOOR - SEE SCHEDULE SHEET N3.0
- 5 WINDOW - SEE SCHEDULE SHEET N3.0
- 6 NOT USED
- 7 NOT USED
- 8 NOT USED
- 9 DOWNSPOUT SEE DETAIL 8/A5.7 FOR ATTACHMENT
- 10 ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 5 & 9/N4.0 - TYP.
- 11 SYNTHETIC STUCCO FINISH
- 11A NOT USED
- 11B 18 GA. FLASHING TRIM
- 12 NOT USED
- 13 CONTROL JOINT (LOCATION MAY VARY) SIMILAR DETAIL 9/A5.3 @ STUDS
- 14 EXTERIOR LIGHT - SEE ELECTRICAL
- 15 NOT USED
- 16 NOT USED
- 17 NOT USED
- 18 GUTTER - SEE ATTACHMENT DETAIL 3/A2.1 AT METAL STANDING SEAM ROOFING OR 4/A2.1 AT SINGLE-PLY / BUILT-UP ROOFING
- 19 MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.
- 20 NOT USED
- 21 WP/IG.F.CI. @ HVAC UNITS - REFER TO ELECTRICAL PLANS
- 22 NOT USED
- 23 HVAC UNIT
- 24 NOT USED
- 25 SHEET METAL FLASHING PAINTED BODY COLOR

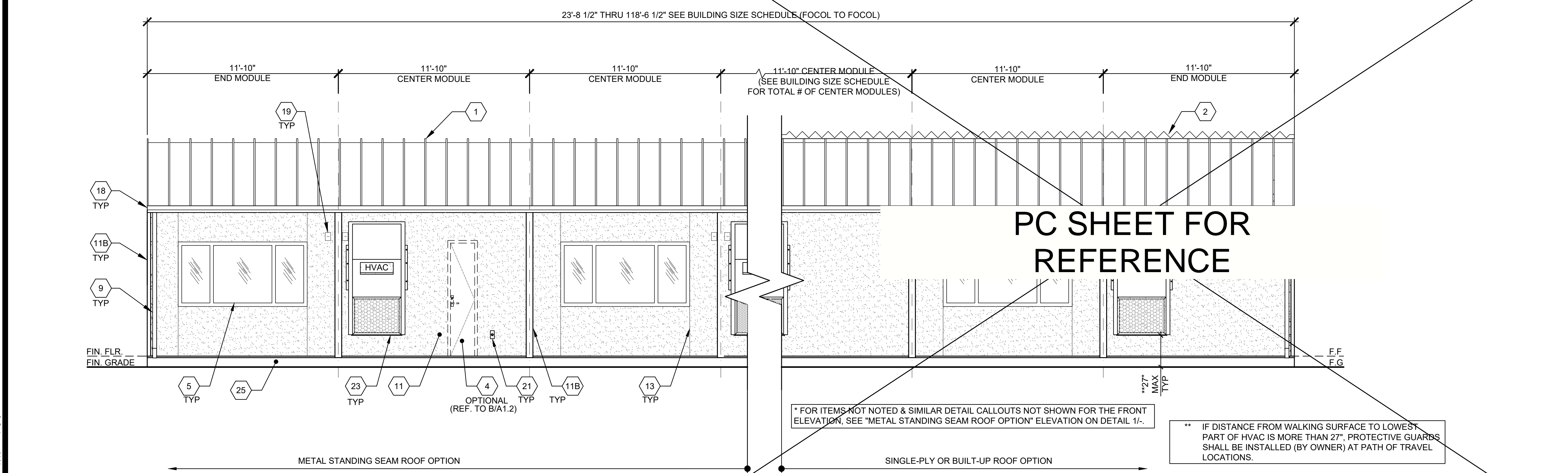
KEYNOTES

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH ¹
<input type="checkbox"/> 24'x40'	2	0	23'-6 1/2"
<input type="checkbox"/> 36'x40'	3	1	35'-6 1/2"
<input type="checkbox"/> 48'x40'	4	2	47'-5"
<input type="checkbox"/> 60'x40'	5	3	59'-3 1/2"
<input type="checkbox"/> 72'x40'	6	4	71'-1 1/2"
<input type="checkbox"/> 84'x40'	7	5	82'-11 3/4"
<input type="checkbox"/> 96'x40'	8	6	94'-10"
<input type="checkbox"/> 108'x40'	9	7	106'-8 1/2"
<input type="checkbox"/> 120'x40'	10	8	118'-6 1/2"

NOTES:
 1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.0, S1.1, S1.2, S1.3

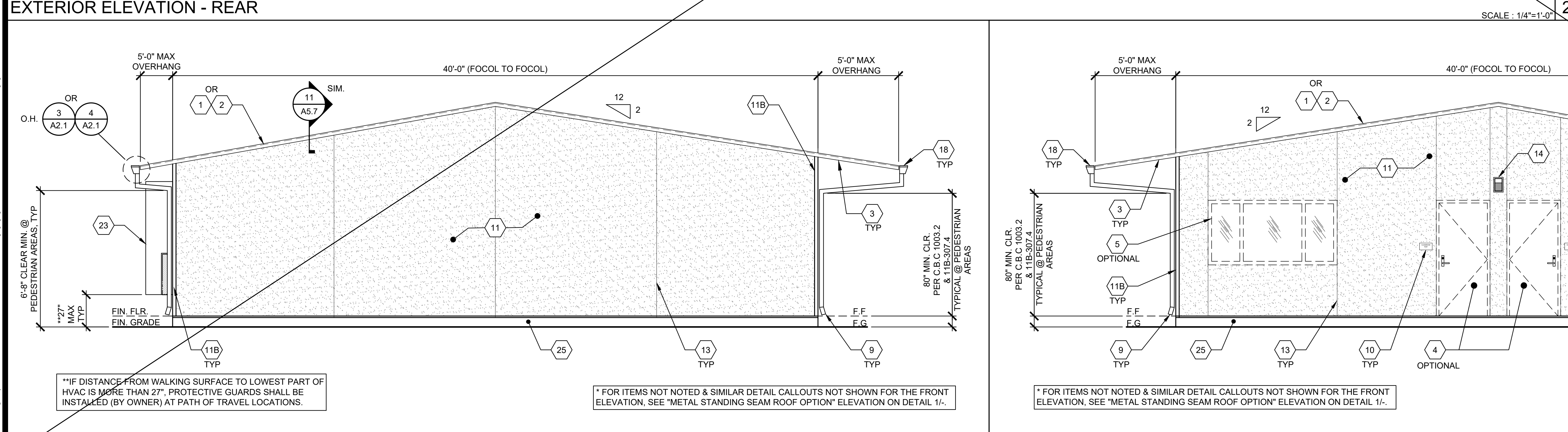


EXTERIOR ELEVATION - FRONT SCALE: 1/4"=1'-0" 1



EXTERIOR ELEVATION - REAR SCALE: 1/4"=1'-0" 2

BUILDING SIZE SCHEDULE



EXTERIOR ELEVATION - LEFT SCALE: 1/4"=1'-0" 3

EXTERIOR ELEVATION - RIGHT SCALE: 1/4"=1'-0" 4

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REVISIONS

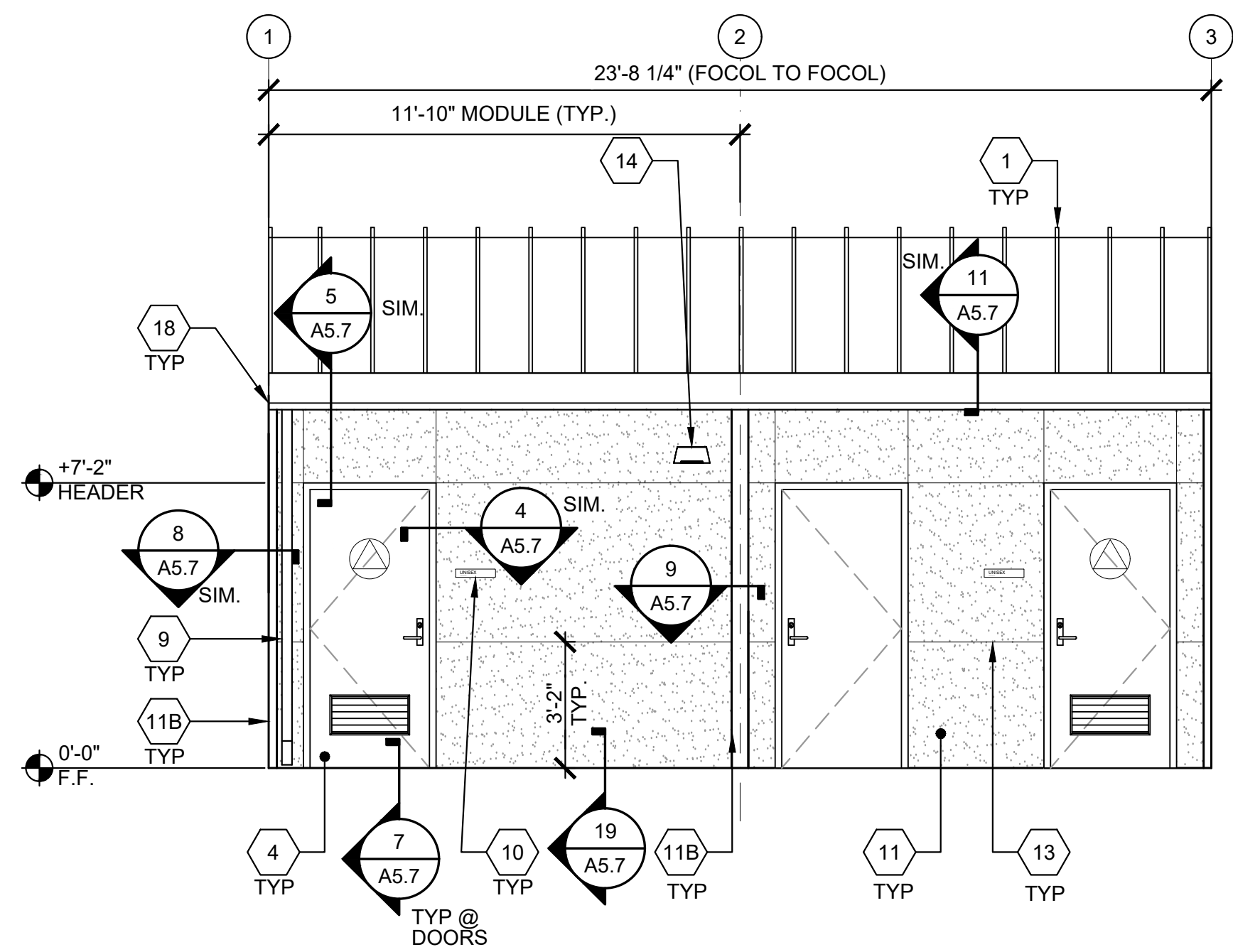
NO.	DESCRIPTION

DRAWN BY: AS NOTED
 SCALE: AS NOTED
 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE:

TYPICAL EXTERIOR ELEVATION - SYNTHETIC STUCCO OPTION

SHEET NUMBER:

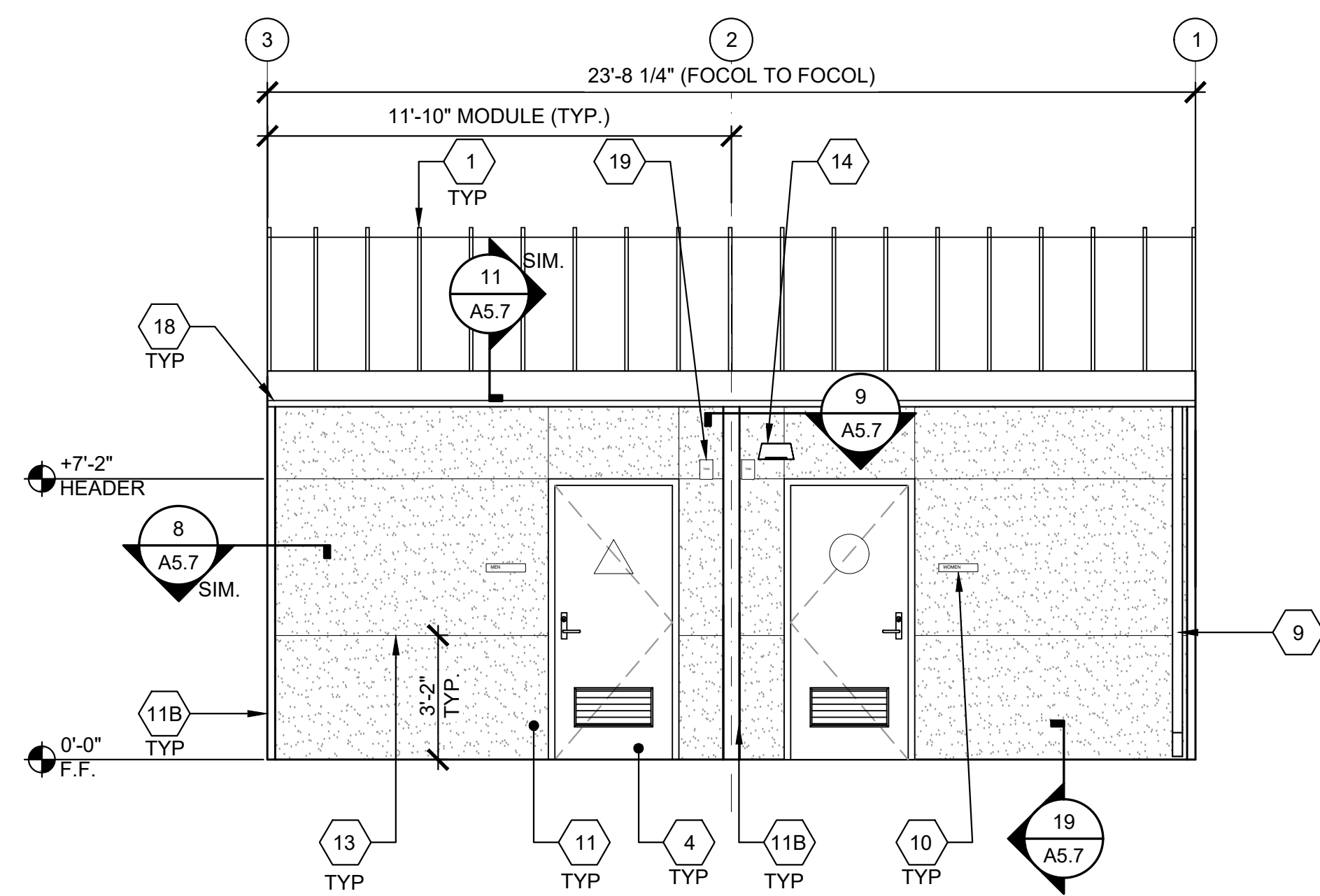
A5.6



EXTERIOR ELEVATION - FRONT

SCALE: 1/4"=1'-0"

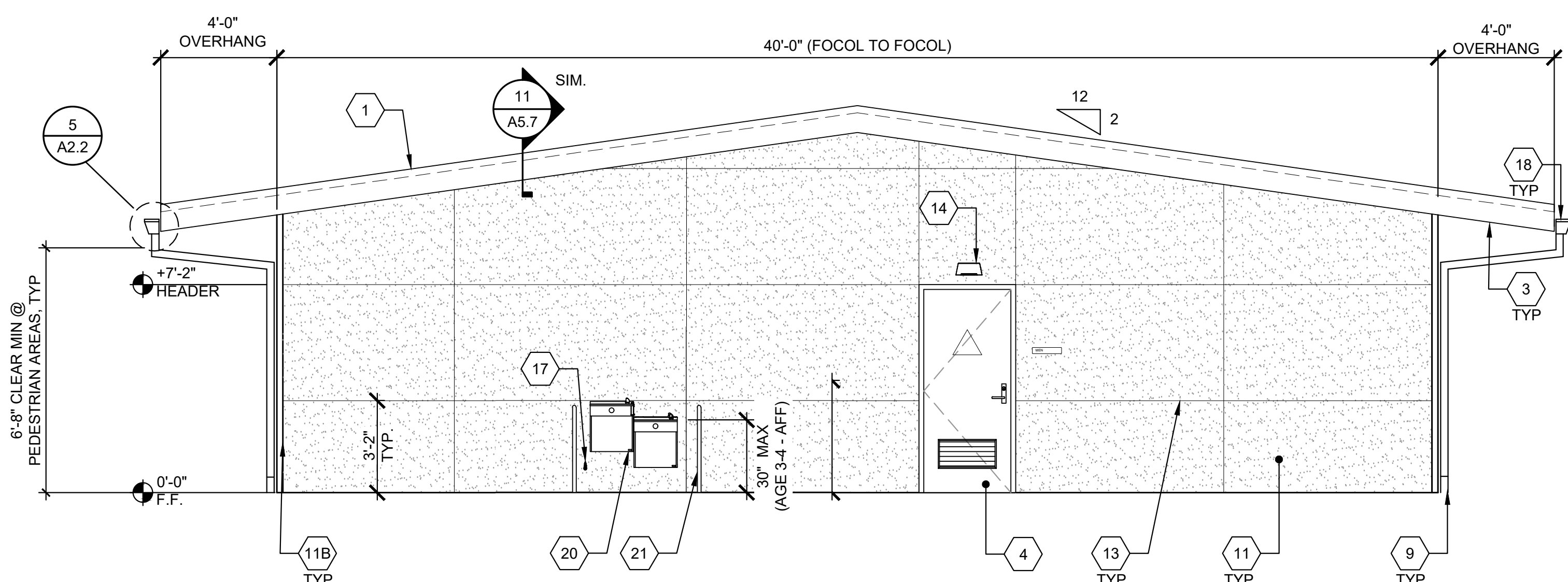
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EXTERIOR ELEVATION - REAR

SCALE: 1/4"=1'-0"

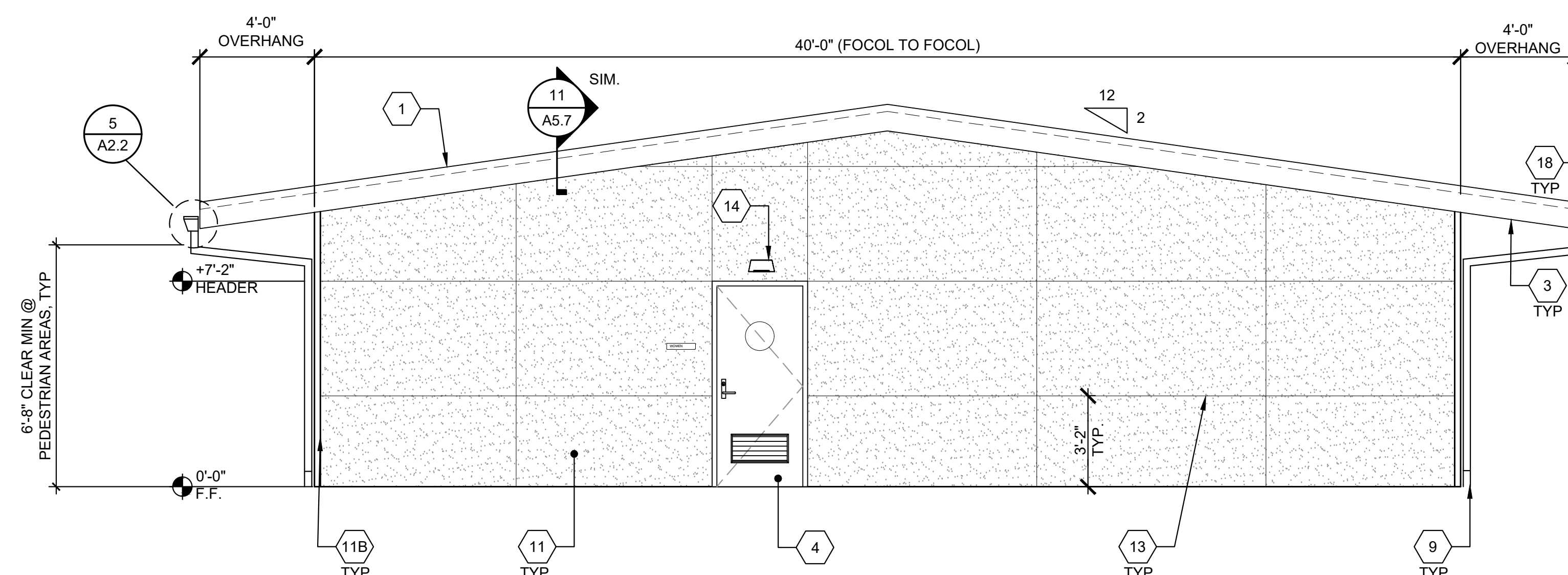
2



EXTERIOR ELEVATION - LEFT

SCALE: 1/4"=1'-0"

3



EXTERIOR ELEVATION - RIGHT

SCALE: 1/4"=1'-0"

4

- 1 STANDING SEAM METAL ROOFING
- 2 NOT USED
- 3 OVERHANG - SEE STRUCTURAL
- 4 TYP EXTERIOR DOOR - SEE SCHEDULE SHEET N3.0
- 5 NOT USED
- 6 NOT USED
- 7 NOT USED
- 8 NOT USED
- 9 DOWNSPOUT SEE DETAIL 8/A5.7 FOR ATTACHMENT AND CIVIL PLANS FOR CONNECTION TO A STORM DRAIN LINE OR PLANTING AREA.
- 10 ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 5 & 9/N4.0 - TYP.
- 11 SYNTHETIC STUCCO FINISH
- 11A NOT USED
- 11B 18 GA. FLASHING TRIM
- 12 NOT USED
- 13 CONTROL JOINT (LOCATION MAY VARY) SIMILAR DETAIL 9/A5.3 @ STUDS
- 14 EXTERIOR LIGHT - SEE ELECTRICAL
- 15 NOT USED
- 16 NOT USED
- 17 HOSE BIB
- 18 GUTTER - SEE ATTACHMENT DETAIL 3/A2.1 AT METAL STANDING SEAM ROOFING OR 4/A2.1 AT SINGLE-PLY / BUILT-UP ROOFING
- 19 MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.
- 20 WALL MOUNT WATER FOUNTAIN
- 21 SITE MOUNTED HAND RAILS (BY OTHERS)

KEYNOTES

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH ¹
<input checked="" type="checkbox"/> 24'x40'	2	0	23'-8 1/2"
<input type="checkbox"/> 36'x40'	3	1	35'-6 3/4"
<input type="checkbox"/> 48'x40'	4	2	47'-5"
<input type="checkbox"/> 60'x40'	5	3	59'-3 1/4"
<input type="checkbox"/> 72'x40'	6	4	71'-1 1/2"
<input type="checkbox"/> 84'x40'	7	5	82'-11 3/4"
<input type="checkbox"/> 96'x40'	8	6	94'-10"
<input type="checkbox"/> 108'x40'	9	7	106'-8 1/2"
<input type="checkbox"/> 120'x40'	10	8	118'-6 1/2"

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.1

BUILDING SIZE SCHEDULE

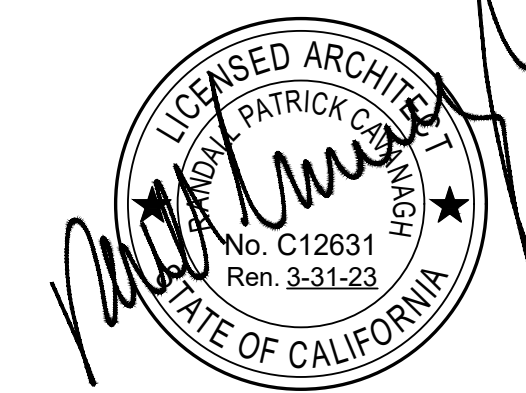


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
ROWLAND USD
HOLLINGWORTH ES
(1) 24' x 40' RESTROOM

2019 CBC PRE-CHECK (PC) DOCUMENT
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REVISIONS	

DRAWN BY: JMA/WY
 SCALE: AS NOTED
 DATE: 06/24/22
 PROJECT NO: 1685-20
 SHEET TITLE:
EXTERIOR ELEVATION - SYNTHETIC STUCCO OPTION

SHEET NUMBER:
A5.6-M



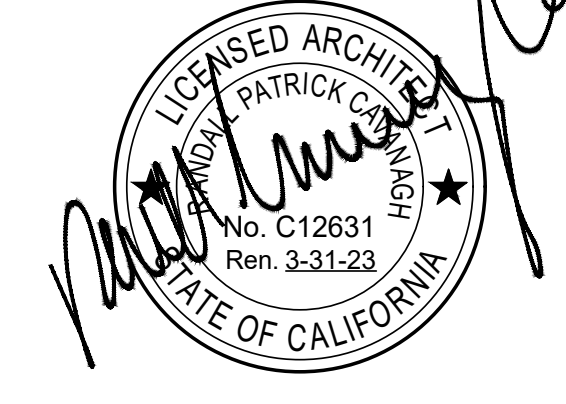
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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.

2019 CBC PRE-CHECK (PC) DOCUMENT
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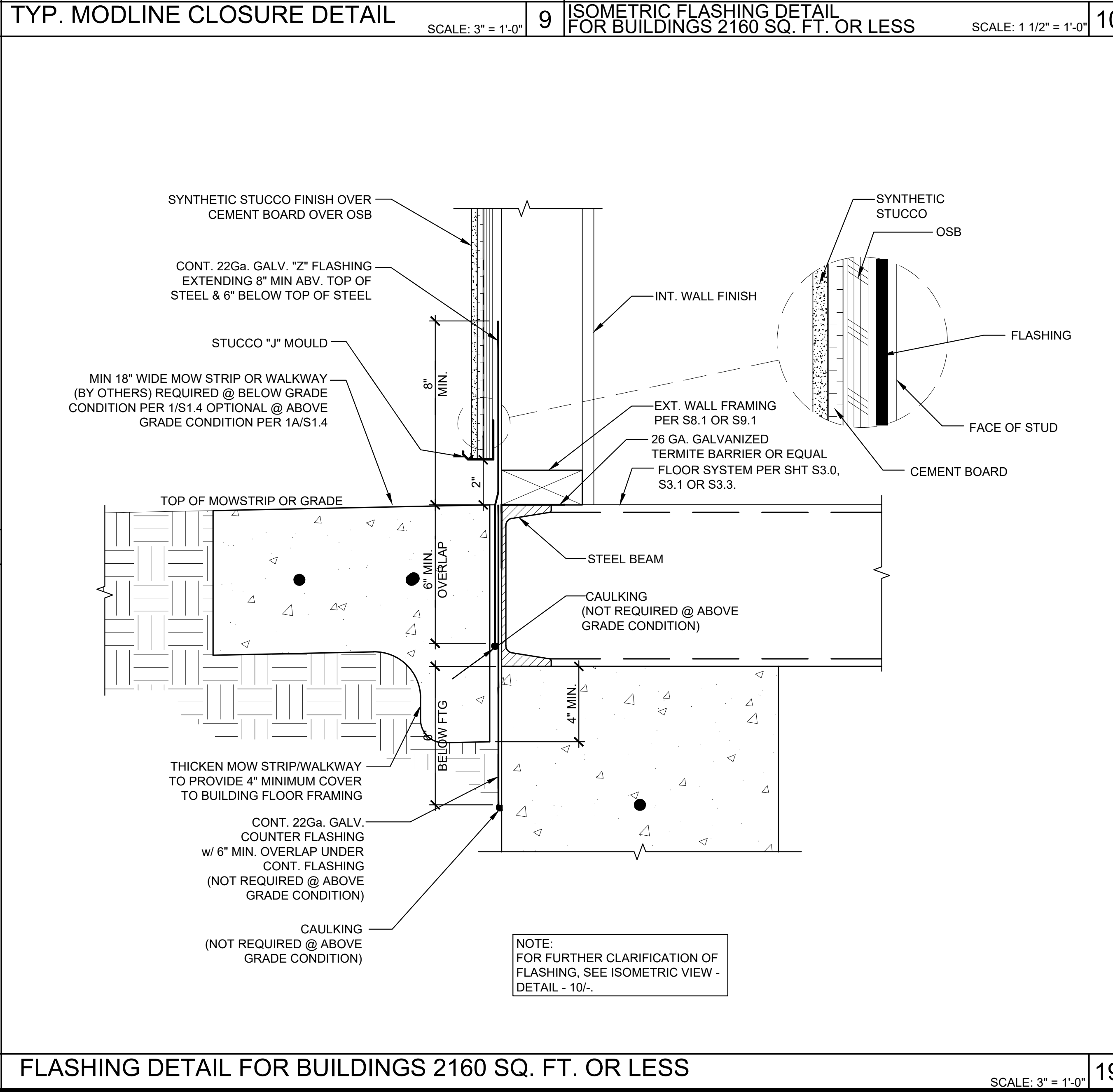
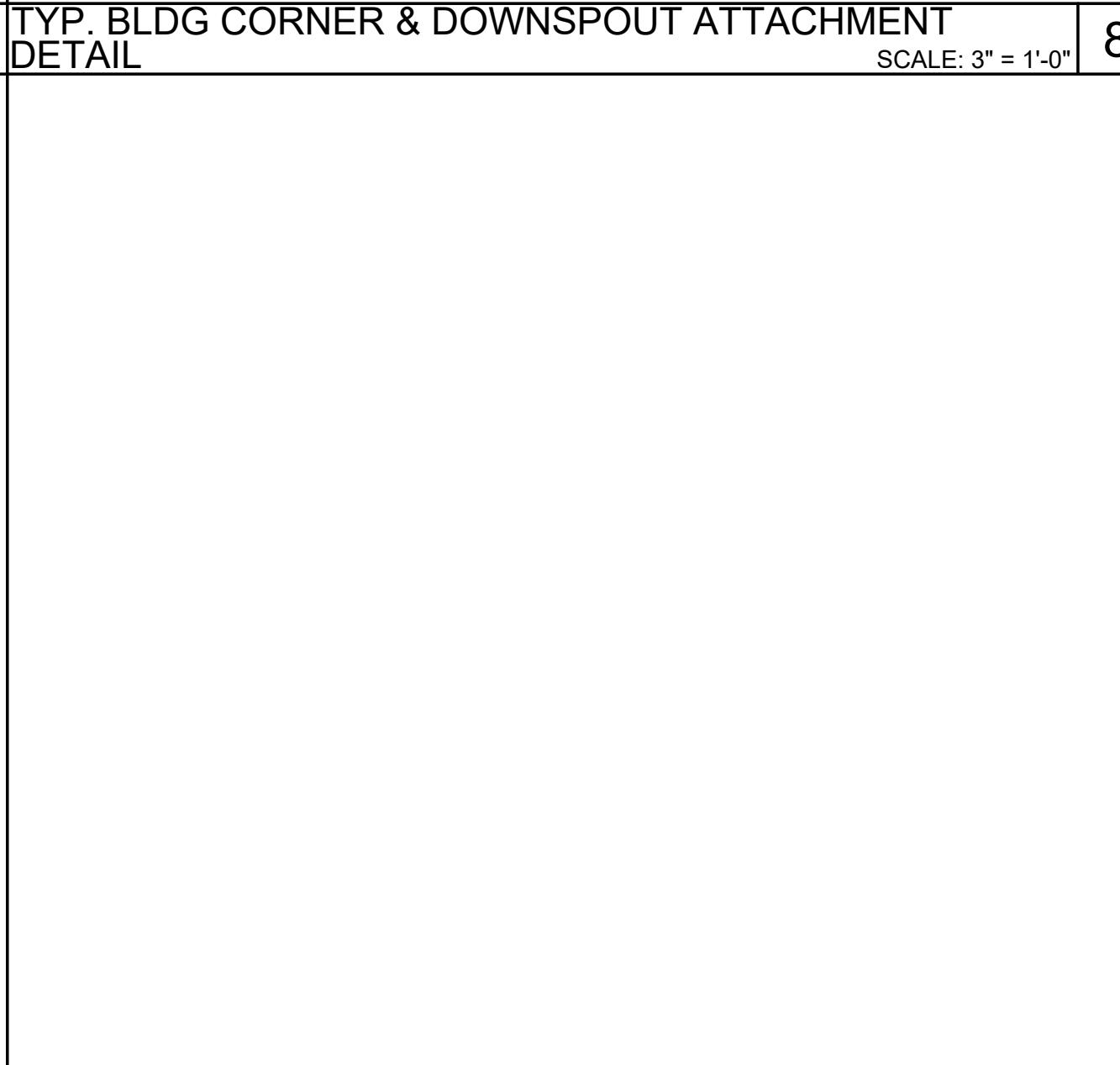
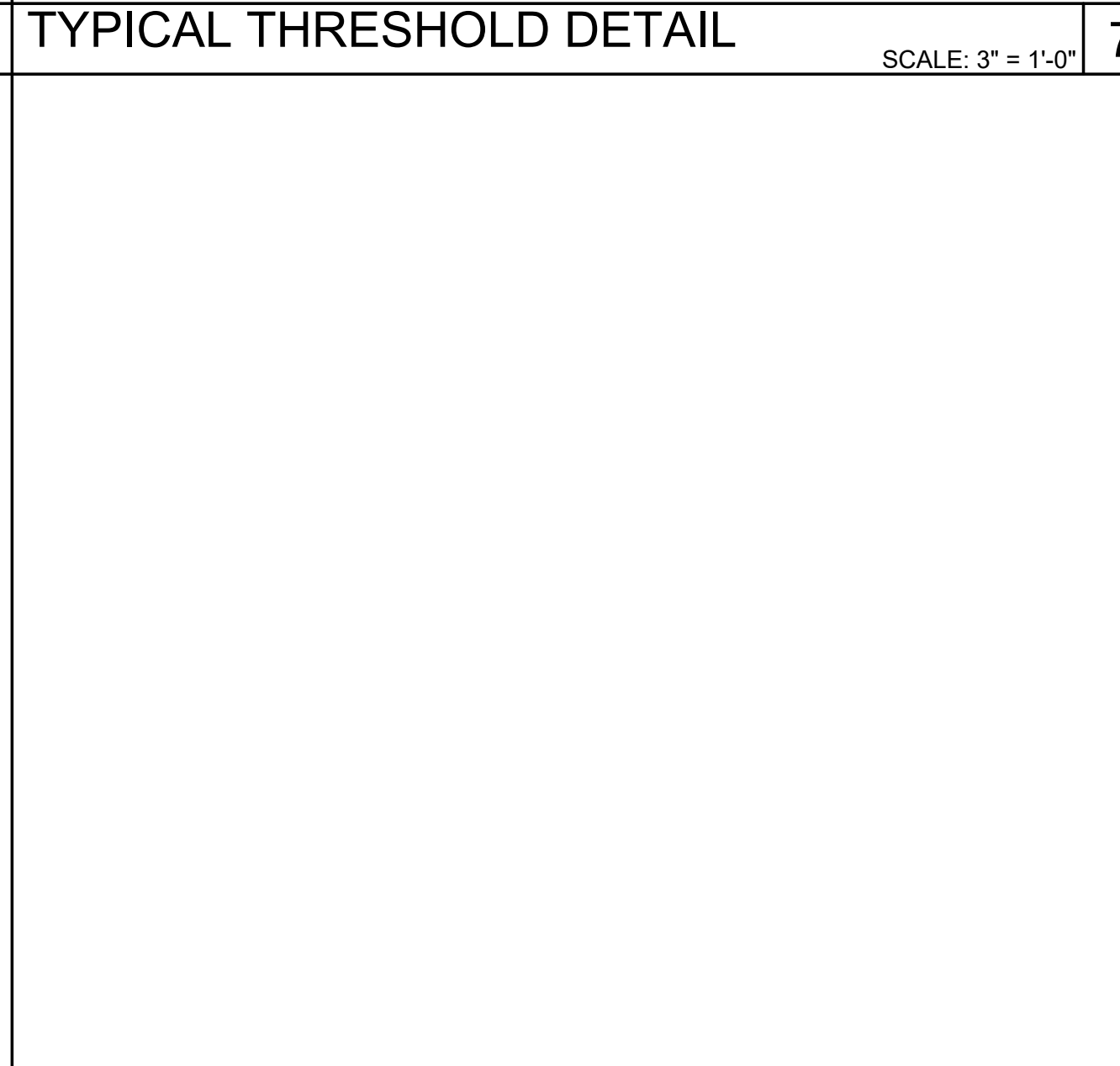
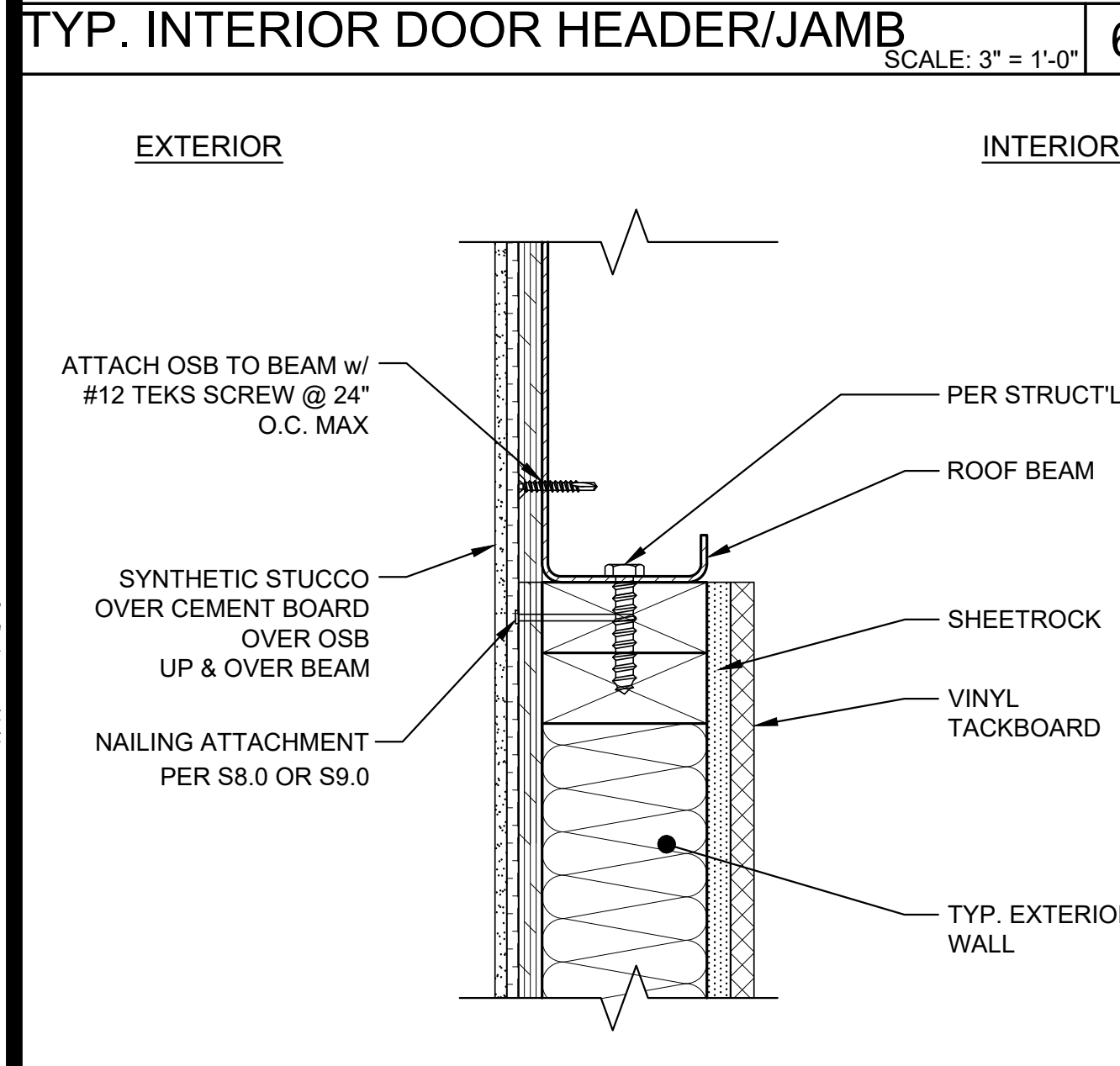
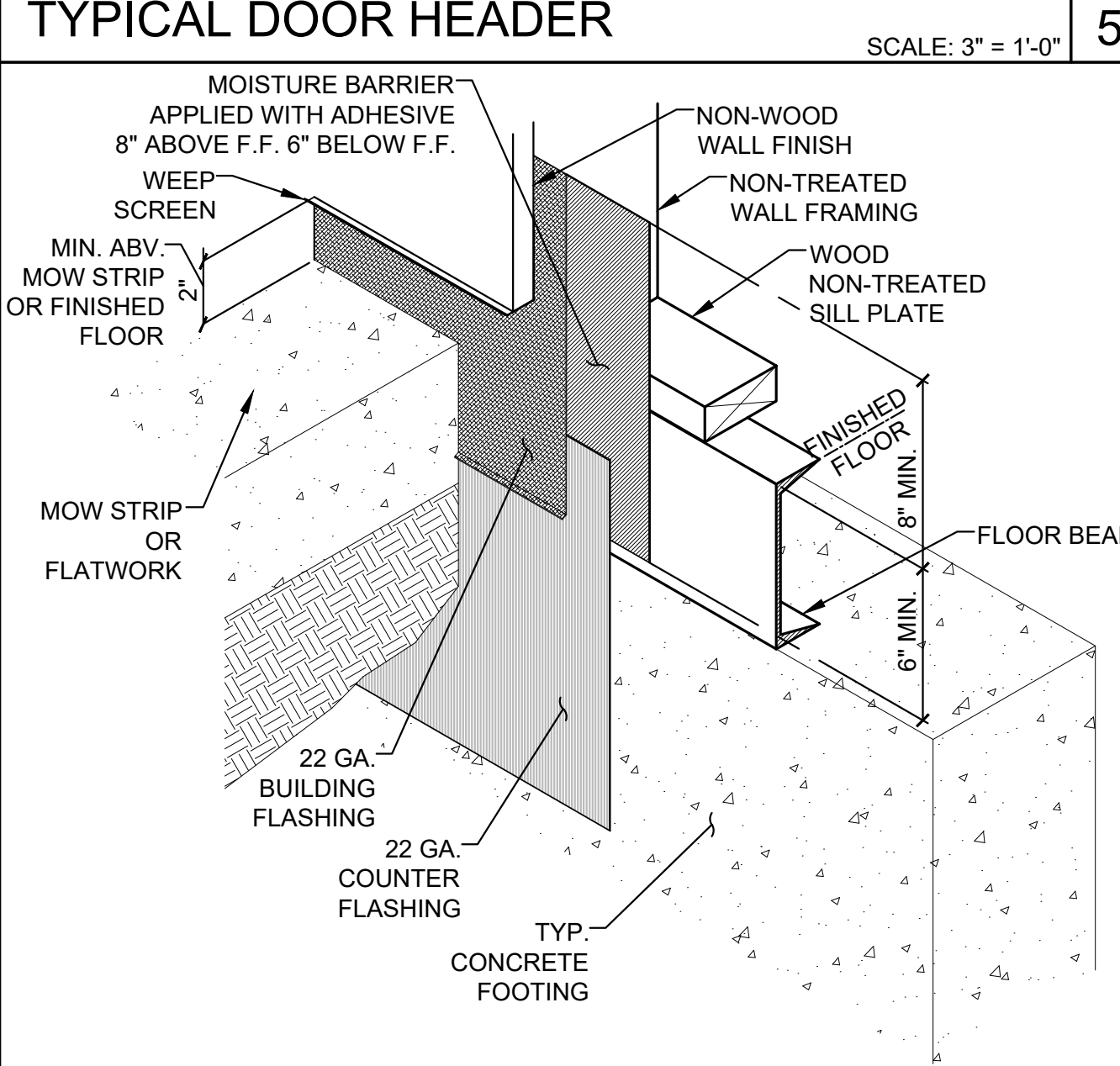
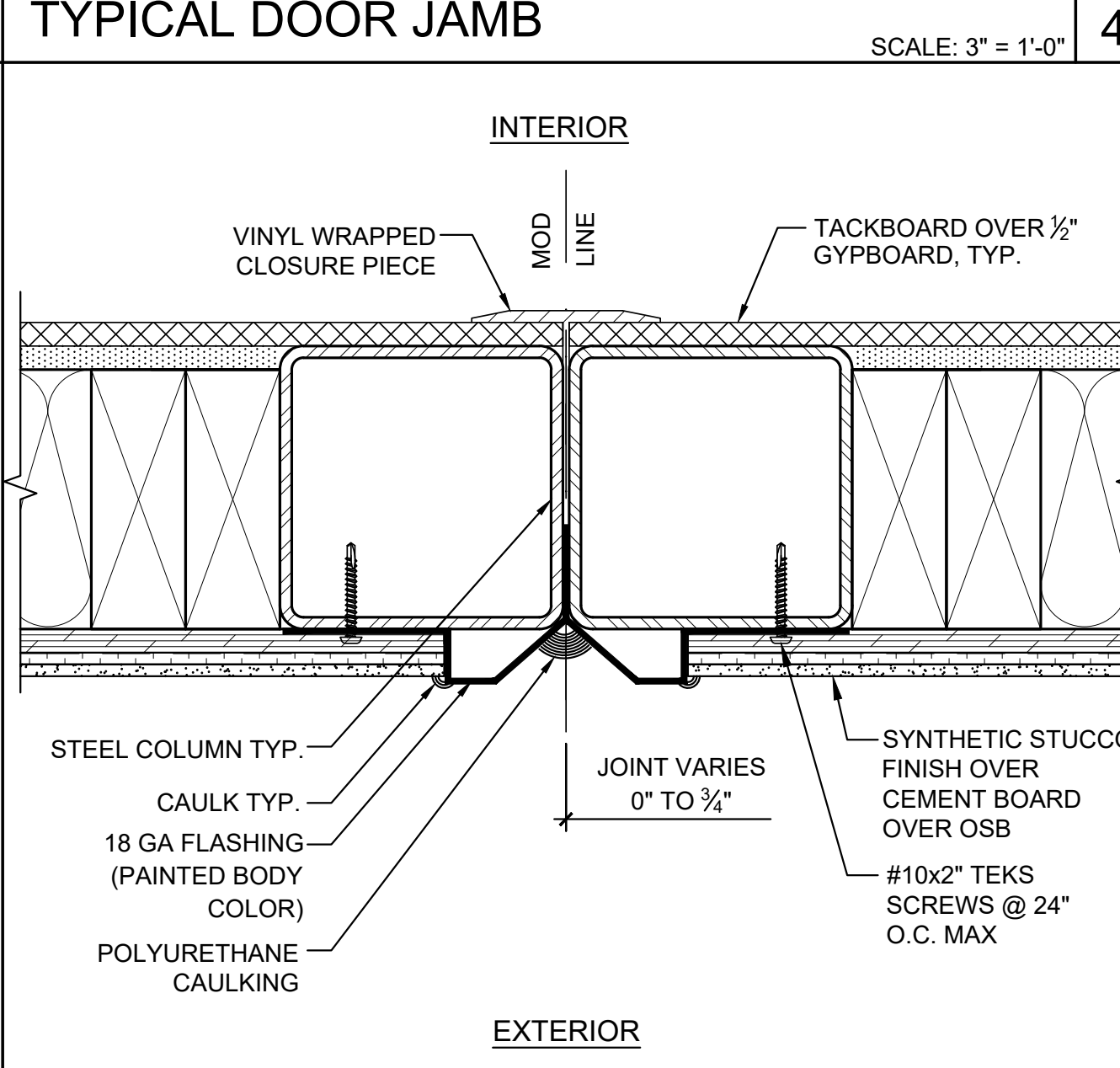
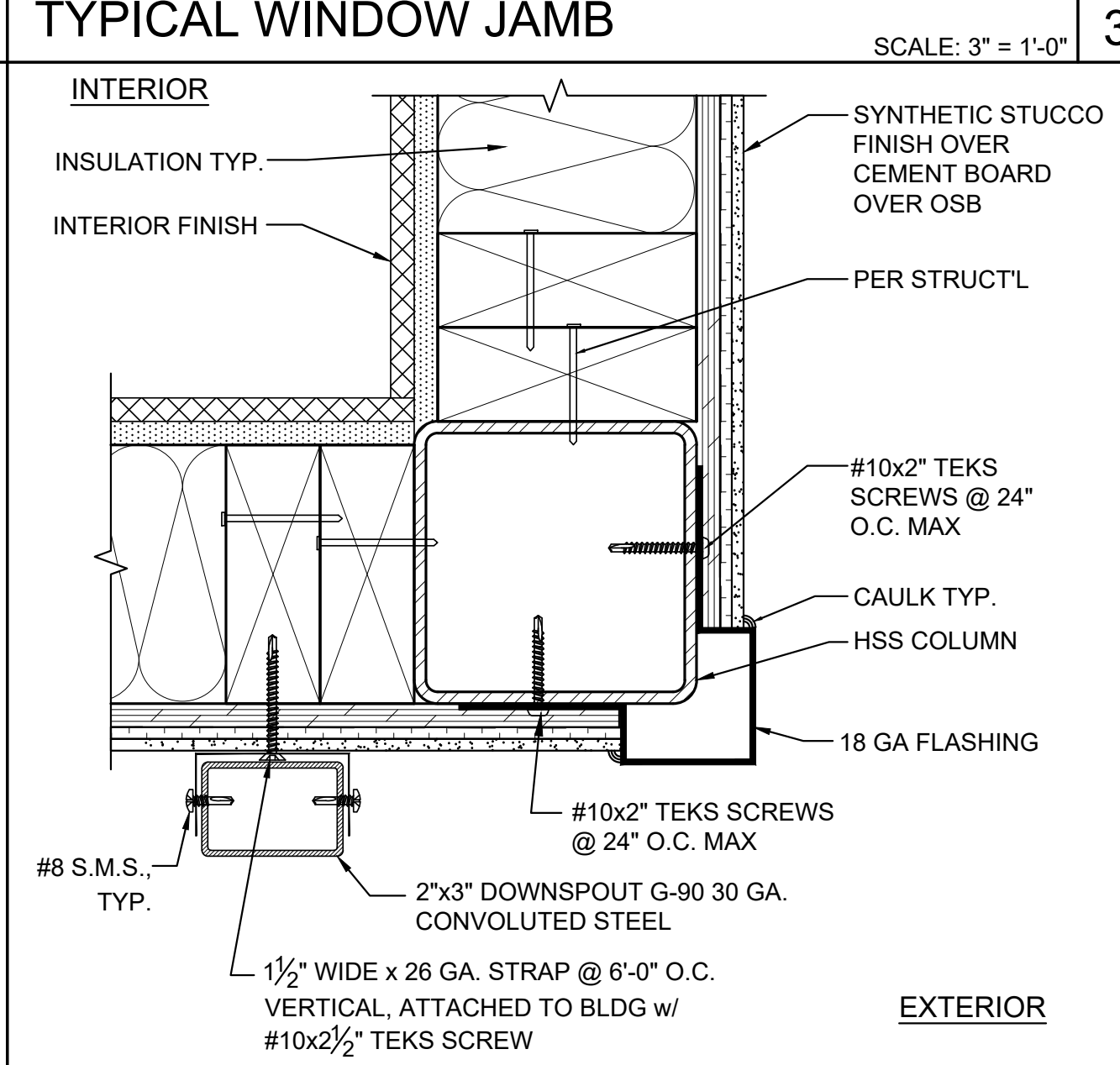
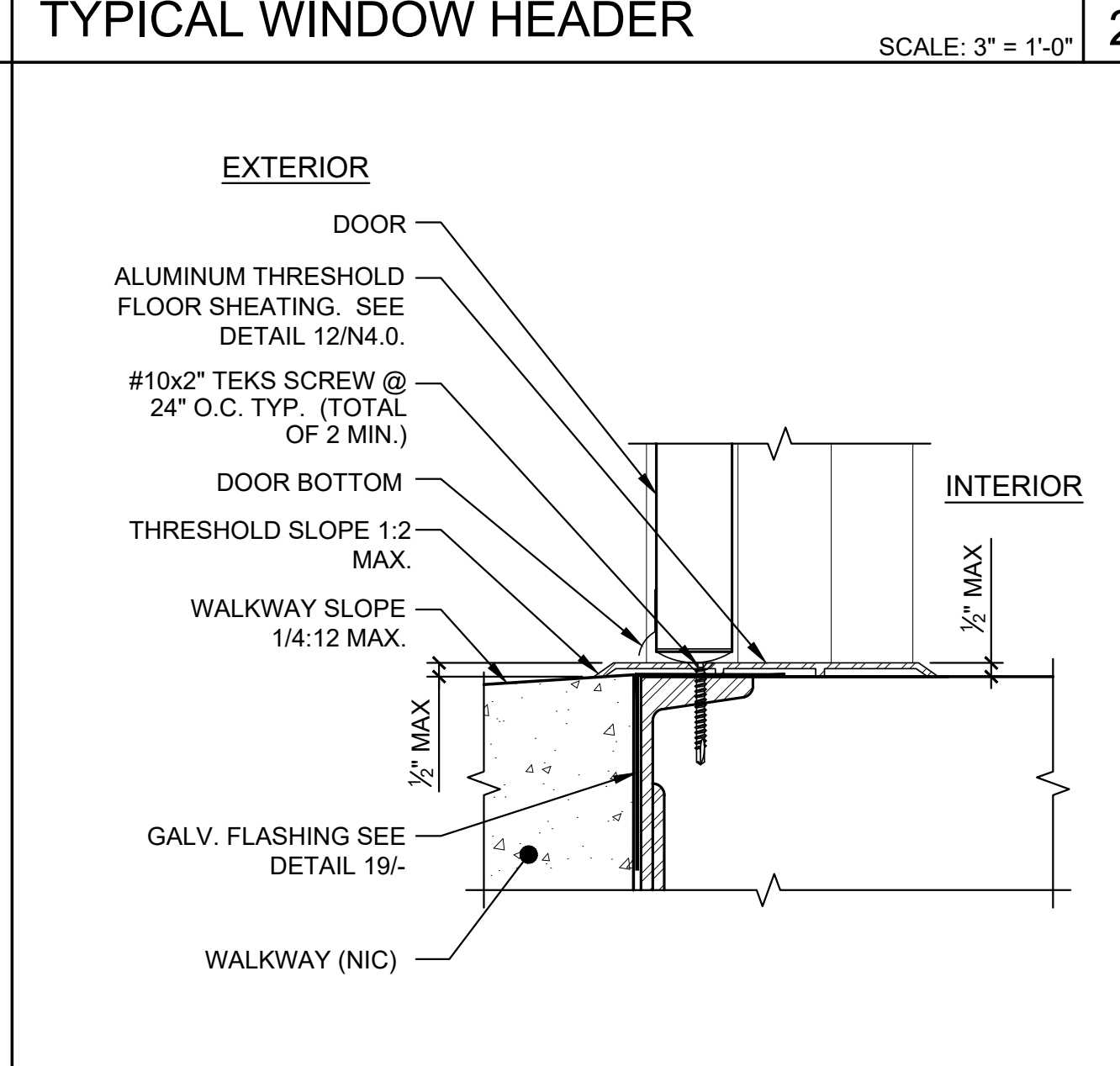
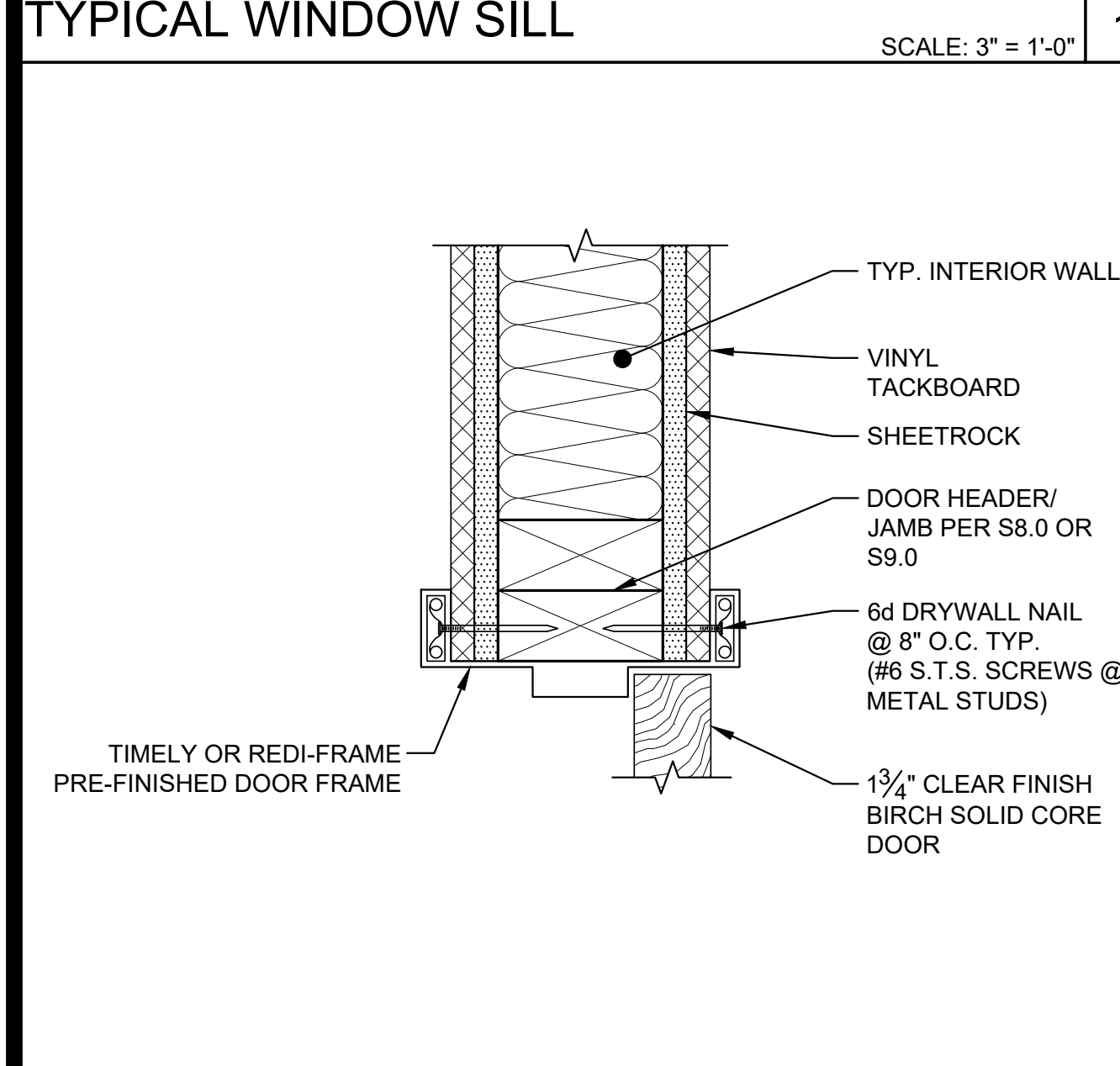
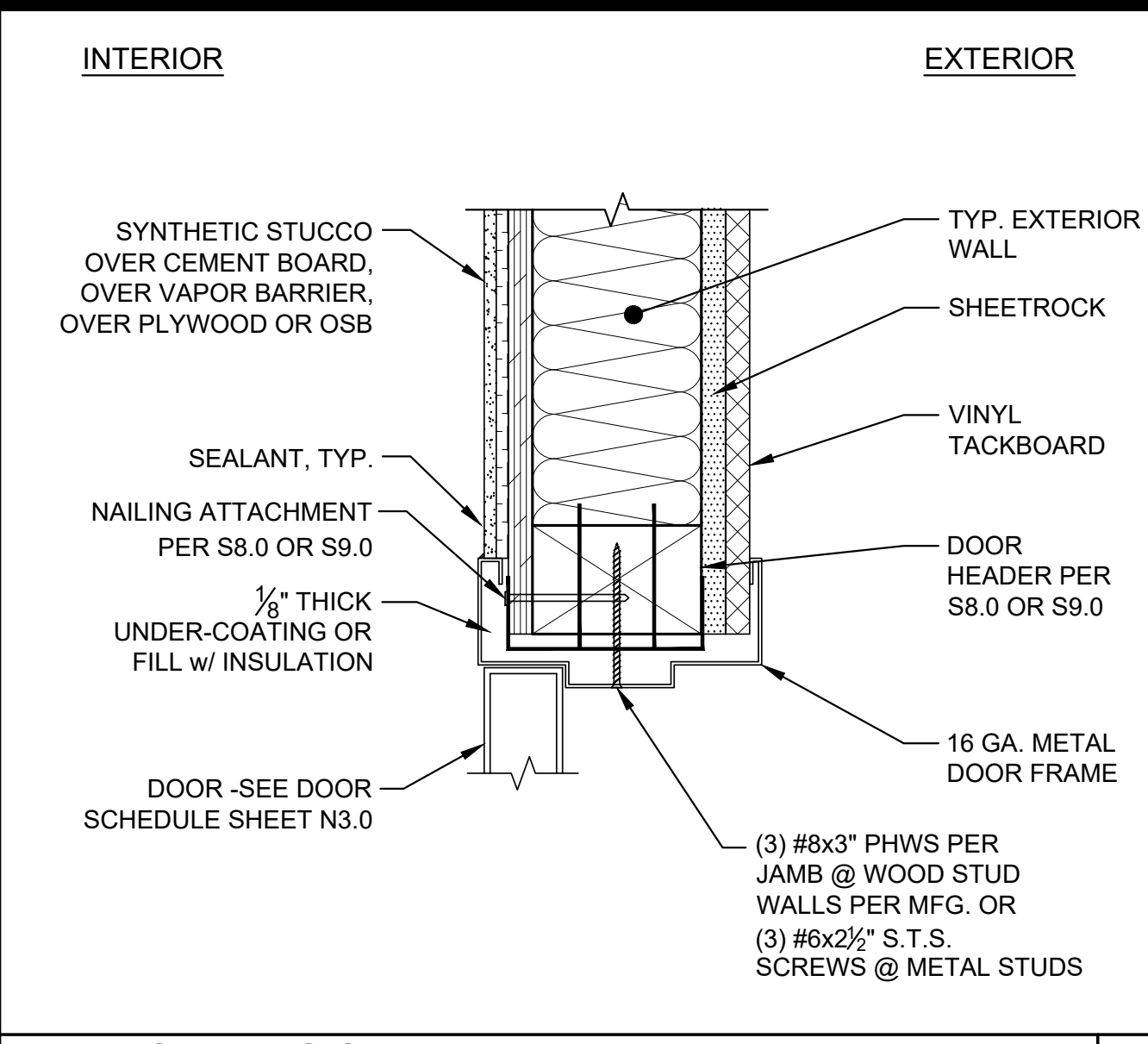
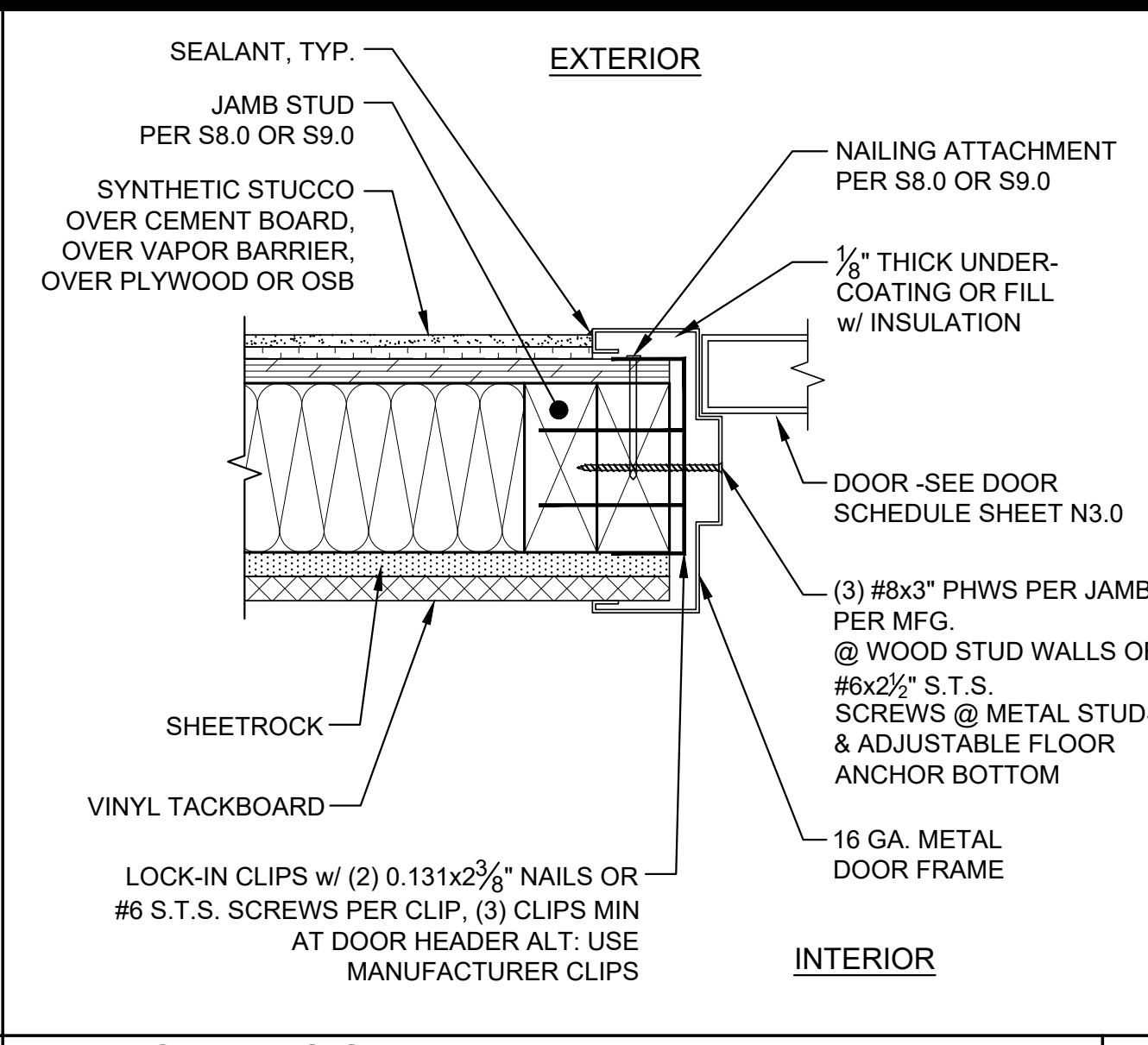
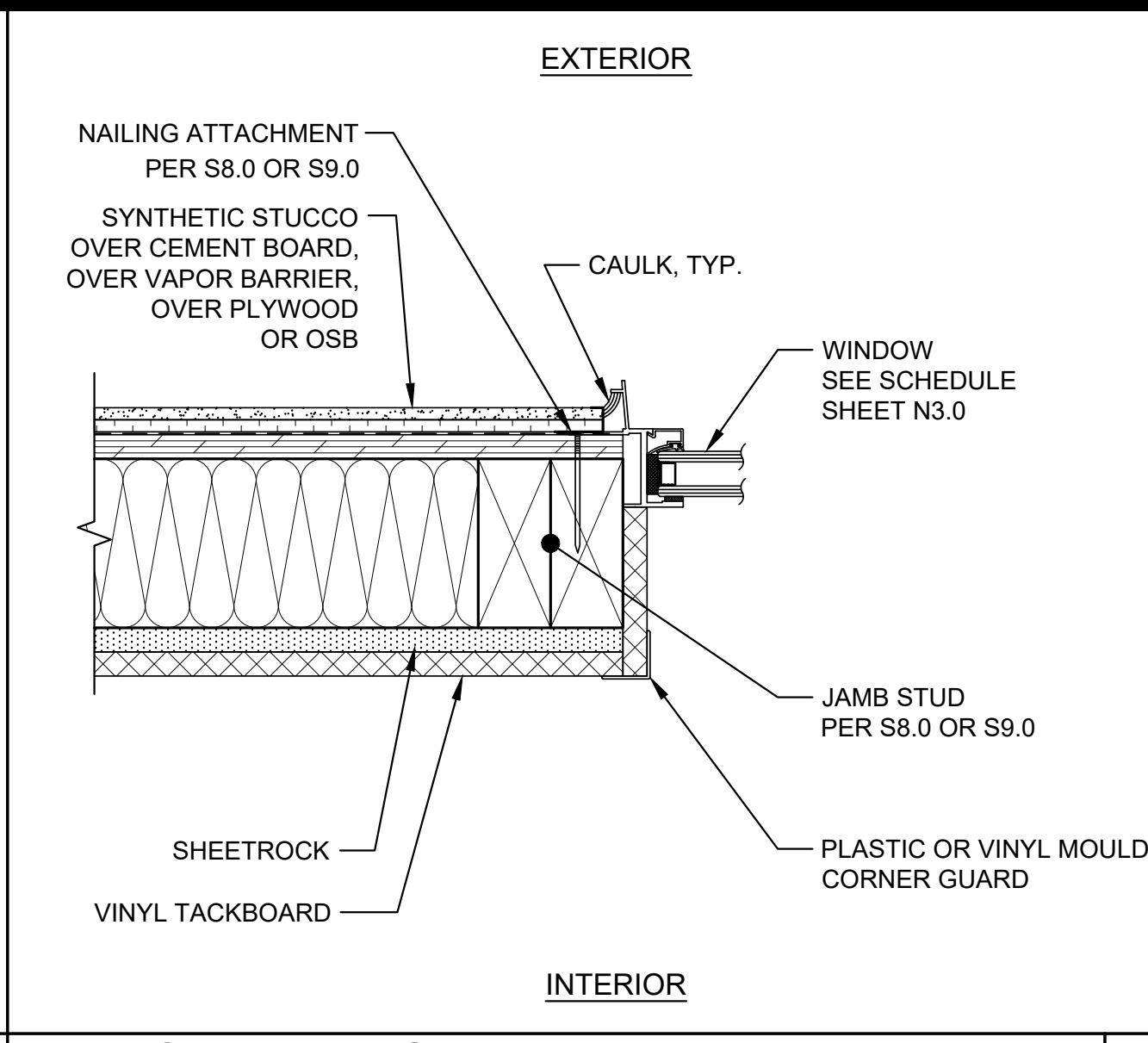
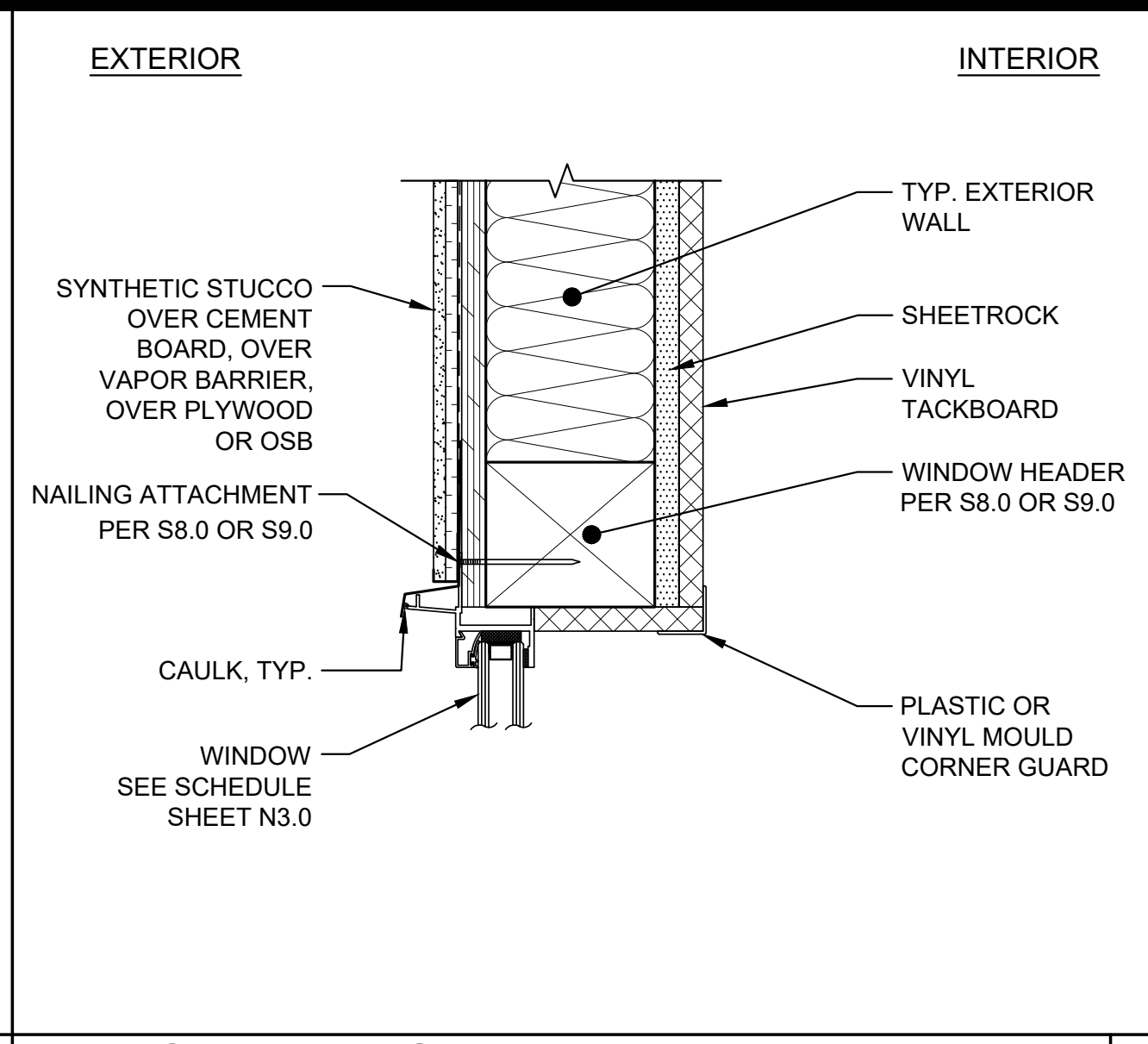
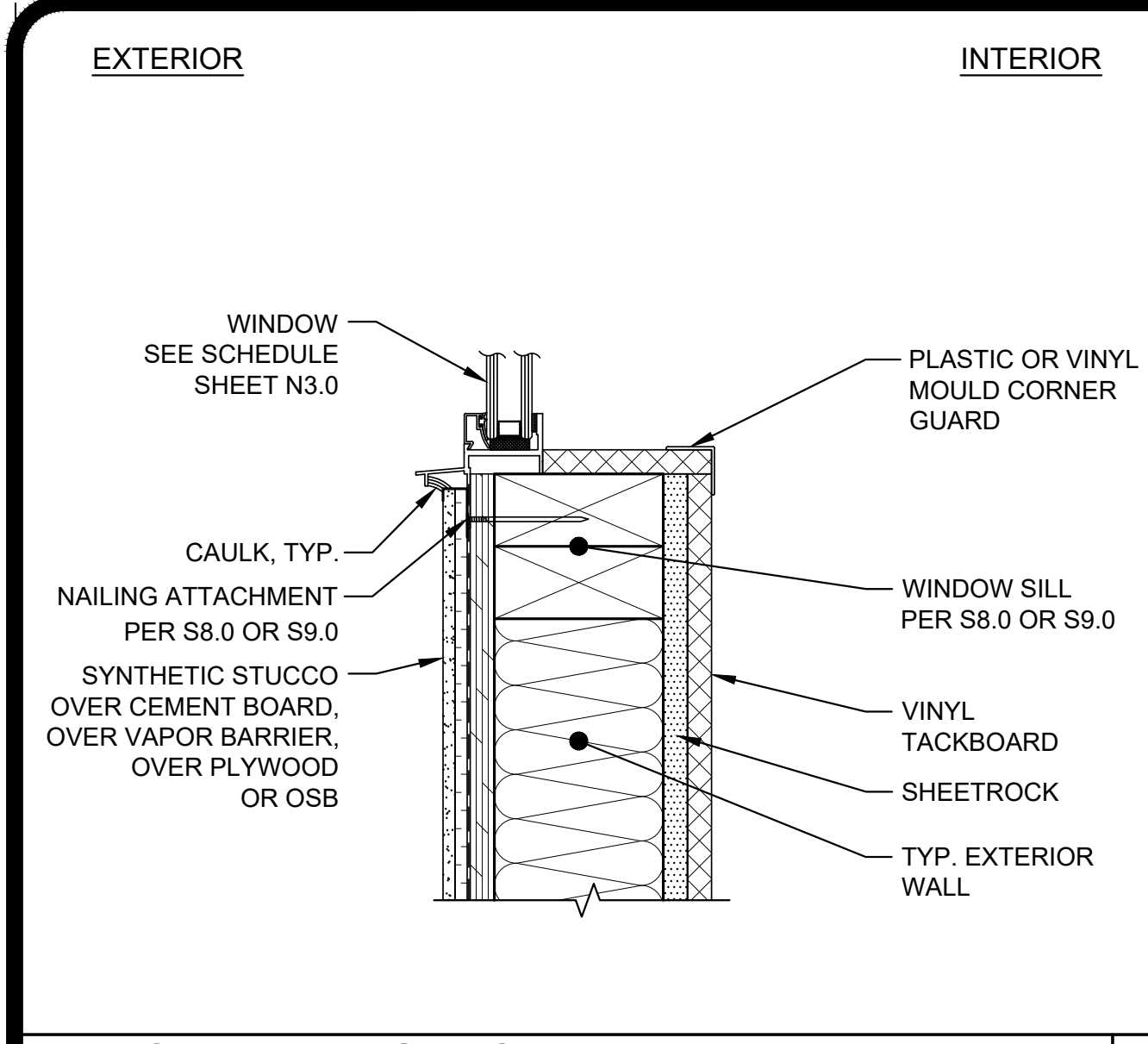
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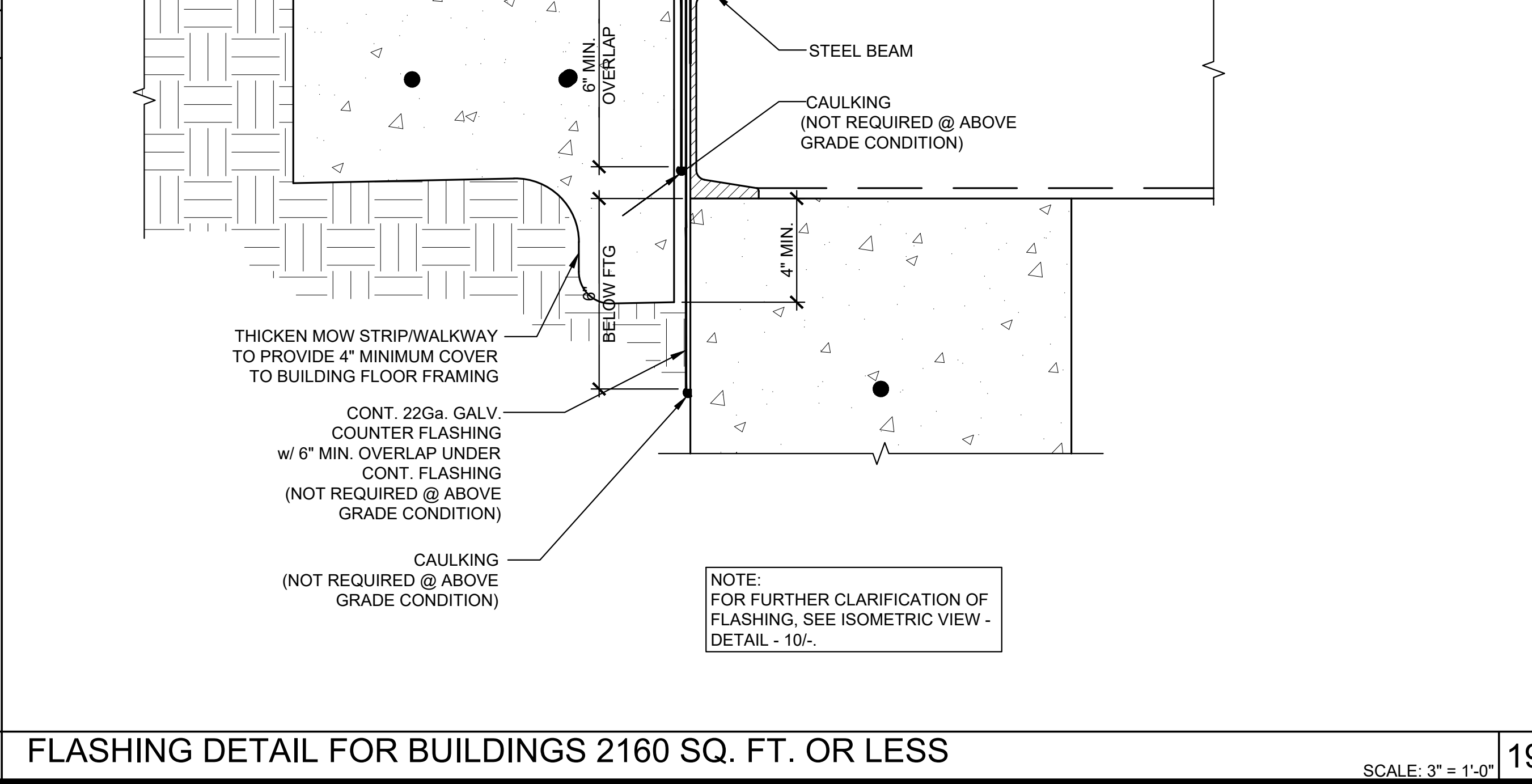
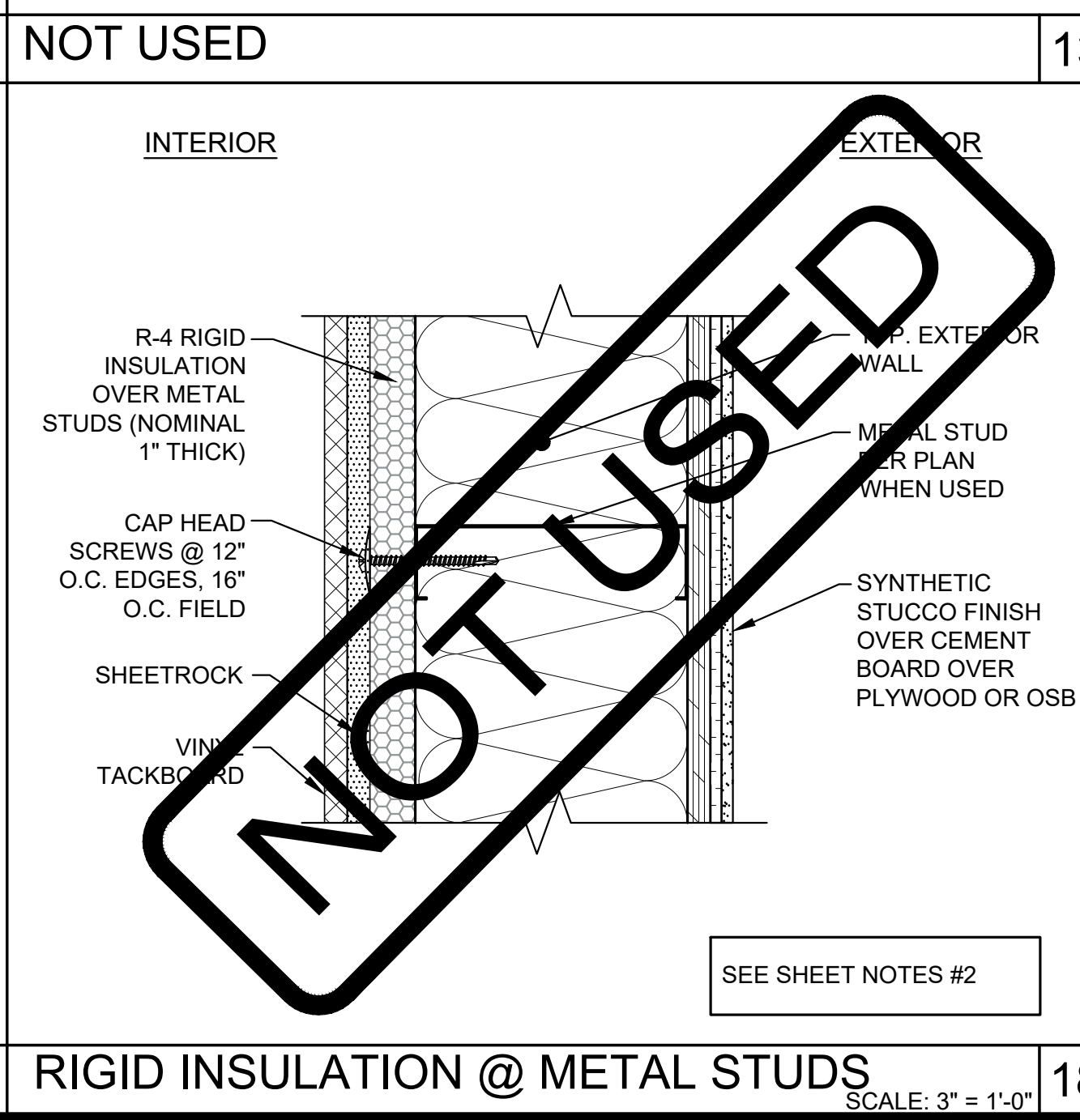
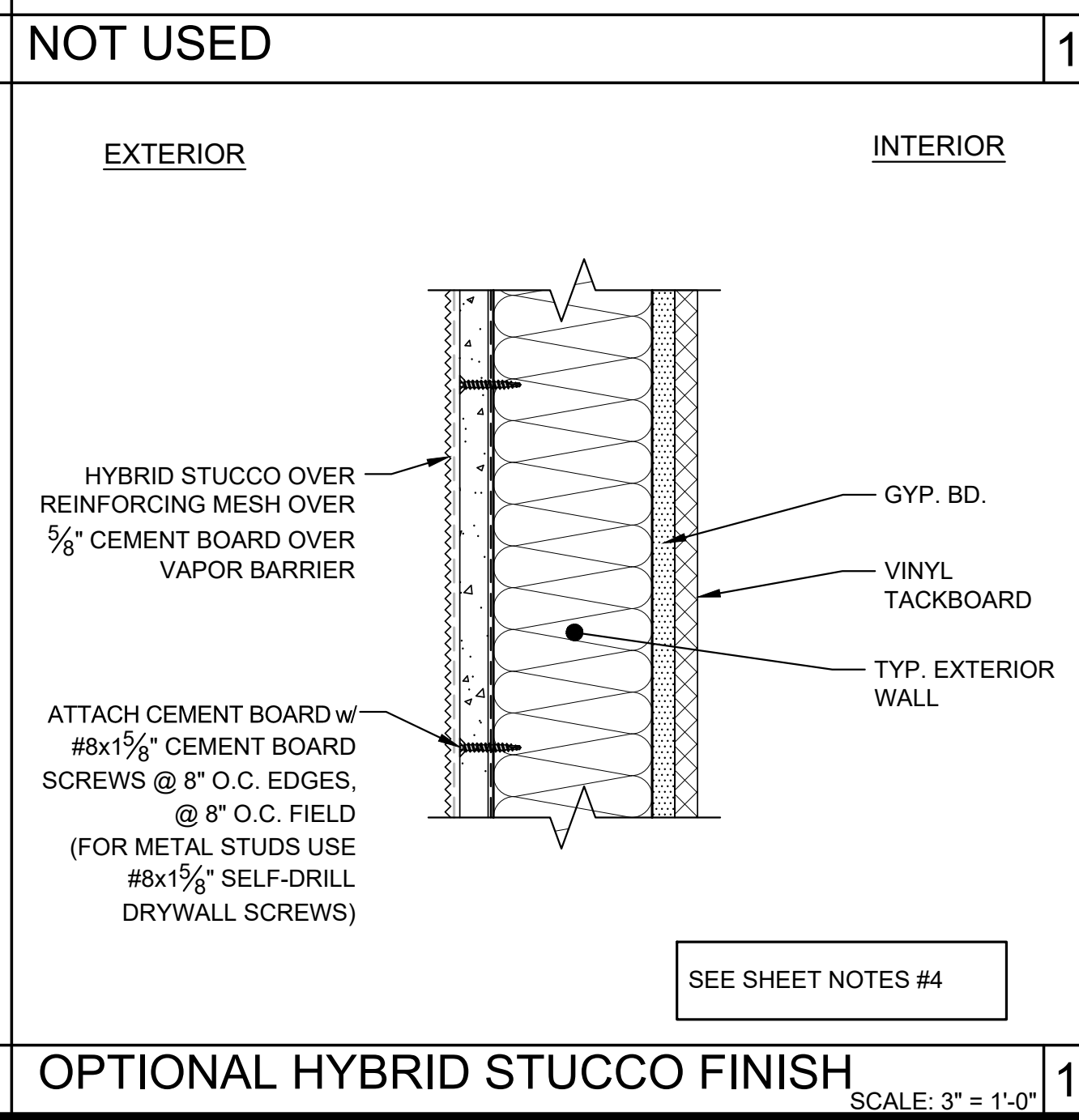
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SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:

TYP. ARCHITECTURAL DETAILS
- SYNTHETIC STUCCO
OPTION

SHEET NUMBER:
A5.7



- SHEET NOTES**
- FOR OPTIONAL METAL STUD FRAMING, SEE S9.0-S9.2.
 - ADDITIONAL R-4 RIGID INSULATION REQUIRED @ METAL STUD WALLS, PER INSULATION SCHEDULE SHEET M1.7 & 18'.
 - FOR FINISH OPTIONS, SEE SHEET A7.0.
 - OPTIONAL HYBRID STUCCO FINISH DOES NOT REQUIRE OSB; SEE DETAIL 17'.
 - REFER TO SHEET A7.3 FOR ALL BUILDING INSULATION INSTALLATION NOT SHOWN OR NOTED ON DETAIL ON THIS SHEET.
 - FOR BUILDINGS 2160 SQ. FT. OR LESS & ALL BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATIONS PER 1A/5.1.4, FLASHING SHALL BE PROVIDED PER DETAILS 10 & 19'.
 - FOR BUILDINGS LARGER THAN 2160 SQ. FT. INSTALLED ON BELOW GRADE FOUNDATIONS PER 1A/5.1.4, FLASHING & DETERIORATION PROTECTION SHALL BE PROVIDED PER SHEET 55.7A. WHERE DETERIORATION PROTECTION IS NOT REQUIRED BY THE SHEET NOTES OF SHEET A5.7A, FLASHING SHALL BE PROVIDED BY DETAIL 10 & 19'.

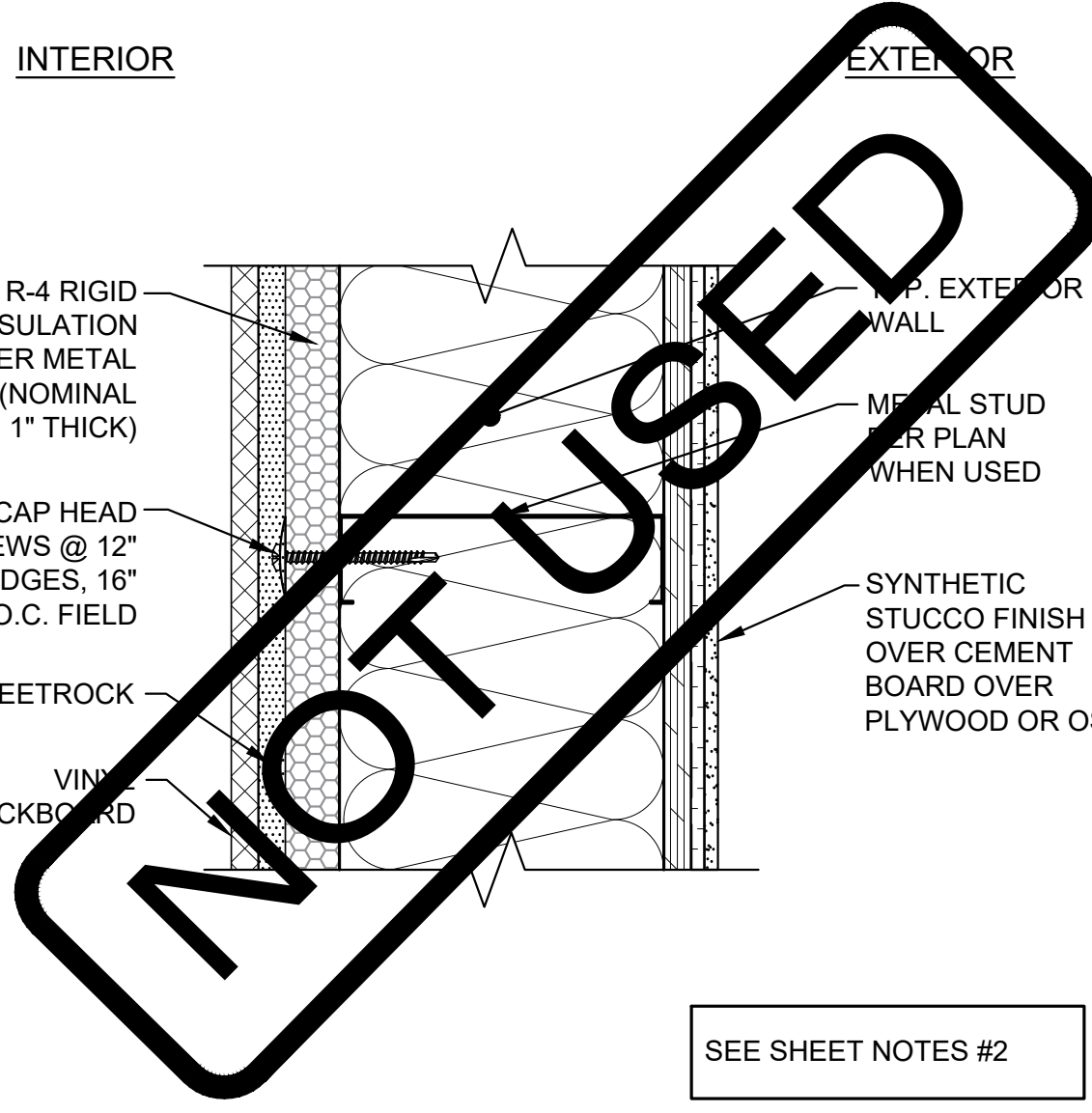


SHEET NOTES

OPTIONAL HYBRID STUCCO FINISH

RIGID INSULATION @ METAL STUDS

FLASHING DETAIL FOR BUILDINGS 2160 SQ. FT. OR LESS



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122206 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/29/2022

- 1 ROOF PURLINS PER ROOF FRAMING PLAN
- 1A FLOOR JOISTS PER FLOOR FRAMING PLAN
- 2 BATT ROOF INSULATION PER SHEET M1.7
- 3 WALL FRAMING PER SHEETS S8.0 OR S9.0
- 4 WALL INSULATION PER SHEET M1.7
- 5 VINYL FABRIC OVER TACKABLE BRACING PANELS
- 6 BATT FLOOR INSULATION PER SHEET M1.7 (PLYWOOD FLOOR ONLY)
- 7 PLYWOOD FLOOR PER SHEET S3.0 OR CONCRETE FLOOR PER SHEETS S3.1 - S3.3
- 8 SUSPENDED T-BAR CEILING PER M1.0
- 8A OPTIONAL PITCHED SUSPENDED T-BAR CEILING
- 9 FINISHED ROOFING PER ROOF PLAN & ROOF FRAMING PLAN
- 10 RIGID ROOF INSULATION PER SHEET M1.7 OVER ROOF SHEATHING
- 11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
- 12 SOLID BLOCKING @ CEILING LEVEL PER CBC 718.2

AMS
 American Modular Systems
 787 Spreckels Ave., Manteca, CA 95336
 Phone (209) 825-1921 Fax (209) 825-7018
 www.americanmodular.com

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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
 .
 .
 .

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-148544 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/09/2021

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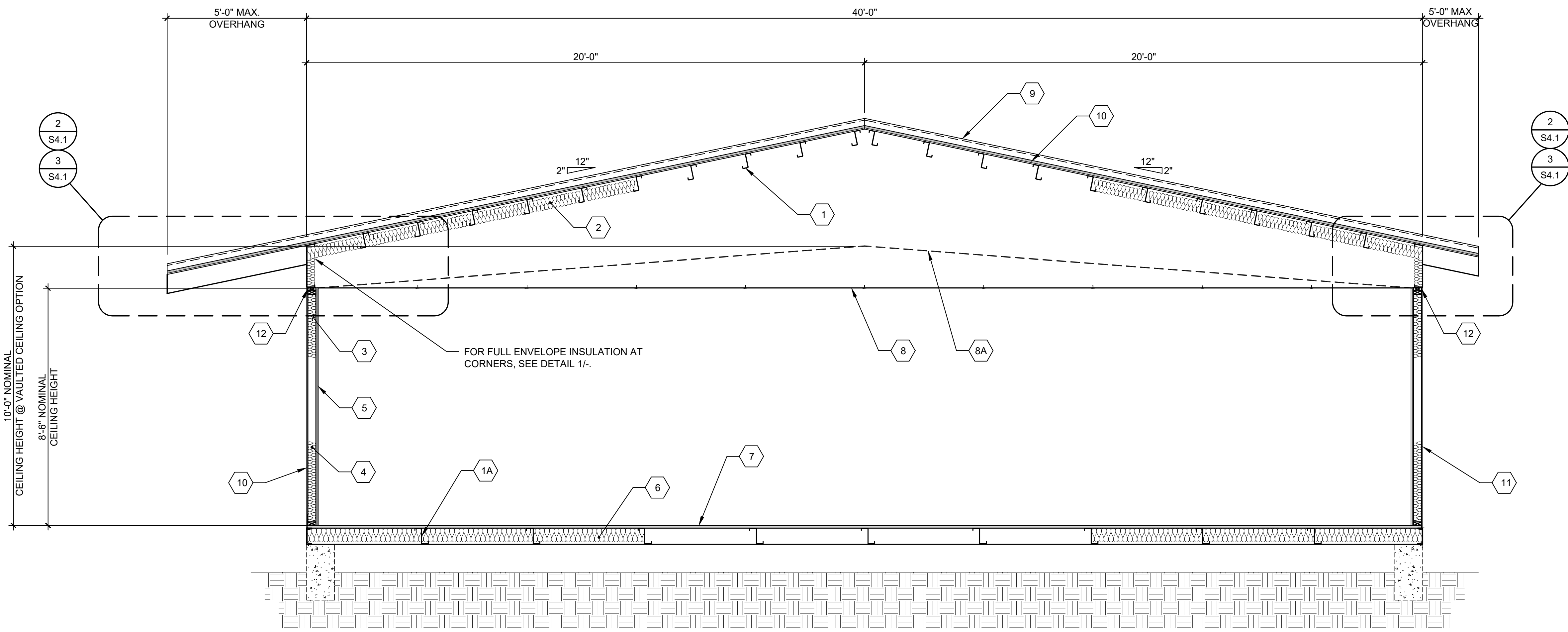
LICENSED ARCHITECT
 PATRICK C. HONG
 No. C12631
 Ren. 3-31-23
 STATE OF CALIFORNIA

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REVISIONS

DRAWN BY: AS NOTED
 SCALE: MM/DD/YY
 DATE: XXXX-20
 PROJECT NO:
 SHEET TITLE:
TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS
 SHEET NUMBER:

A7.3



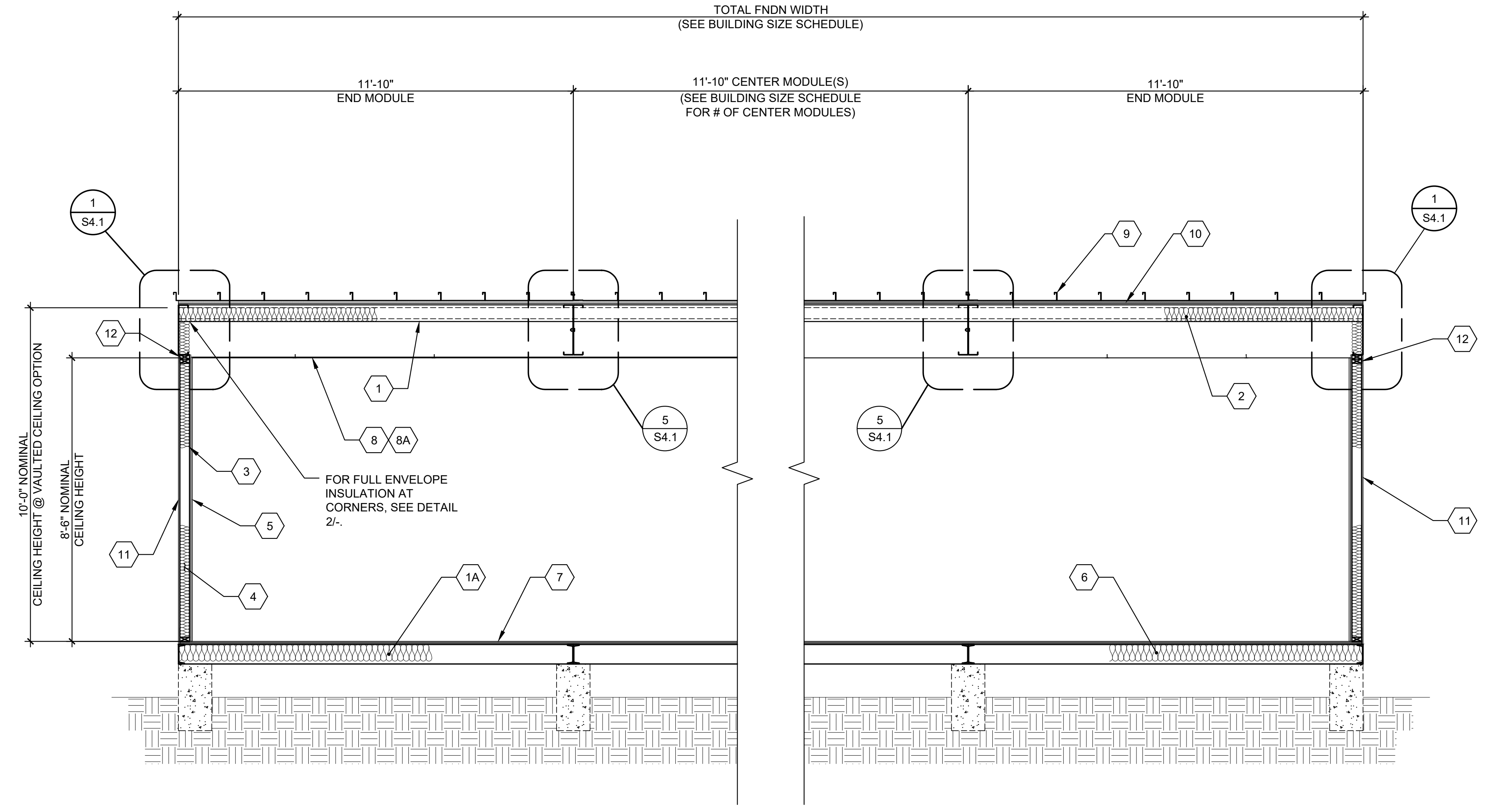
TYP. LONGITUDINAL SECTION-DUAL PITCH

SCALE: 3/8"=1'-0" A

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH
<input checked="" type="checkbox"/> 24'x40'	2	0	23'-8 1/2"
<input type="checkbox"/> 36'x40'	3	1	35'-6 3/4"
<input type="checkbox"/> 48'x40'	4	2	47'-5"
<input type="checkbox"/> 60'x40'	5	3	59'-3 1/4"
<input type="checkbox"/> 72'x40'	6	4	71'-1 1/2"
<input type="checkbox"/> 84'x40'	7	5	82'-11 3/4"
<input type="checkbox"/> 96'x40'	8	6	94'-10"
<input type="checkbox"/> 108'x40'	9	7	106'-8 1/4"
<input type="checkbox"/> 120'x40'	10	8	118'-6 1/2"

NOTES:
 1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.0, S1.1, S1.2 & S1.3

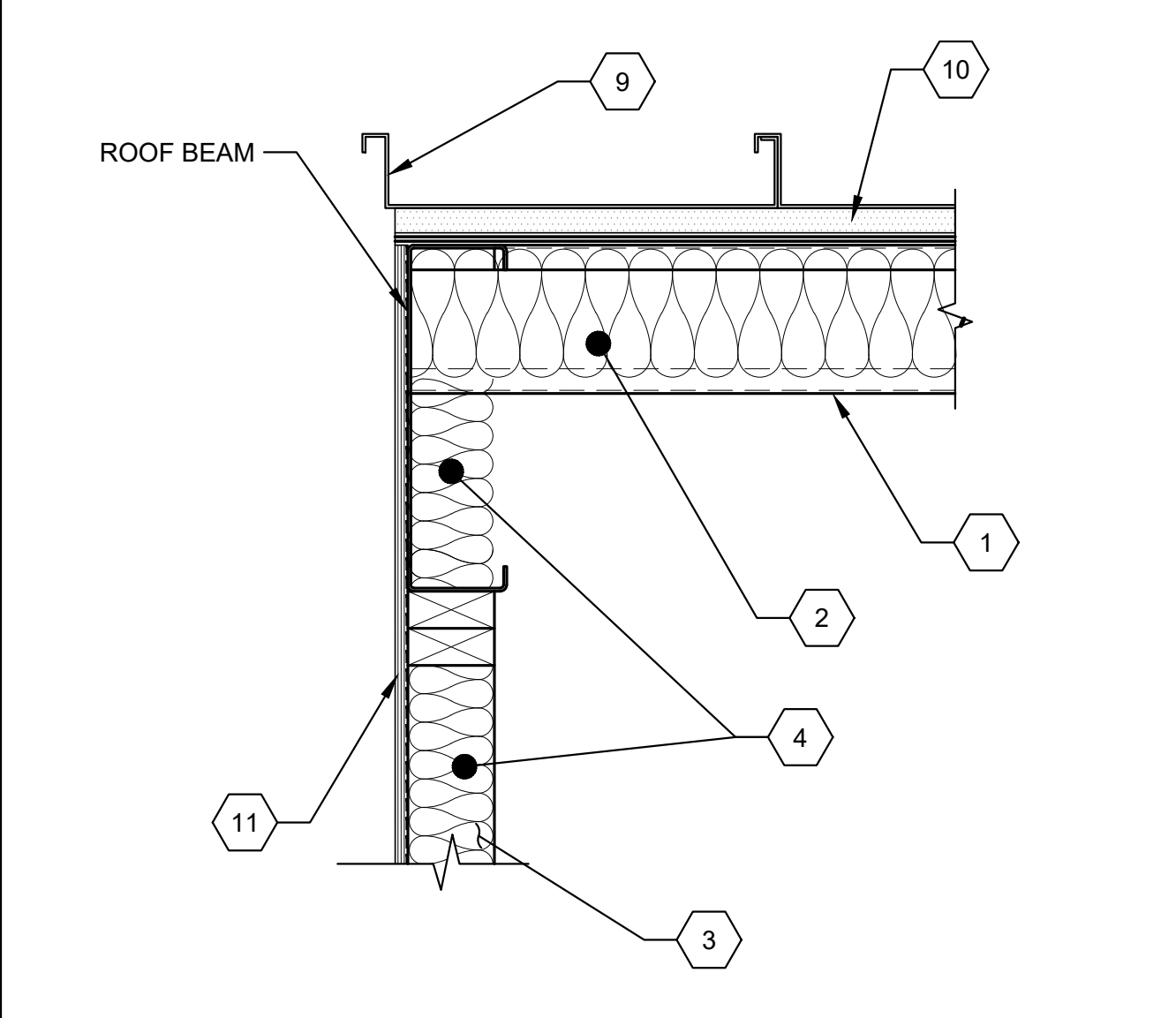


TYP. TRANSVERSE SECTION-DUAL PITCH

SCALE: 3/8"=1'-0" B

INSULATION CORNER DET.

SCALE: 1-1/2"=1'-0" 1



INSULATION CORNER DET.

SCALE: 1-1/2"=1'-0" 2



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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
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2019 CBC PRE-CHECK (PC) DOCUMENT
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MANUFACTURER PROFESSIONAL OF RECORD ON PC



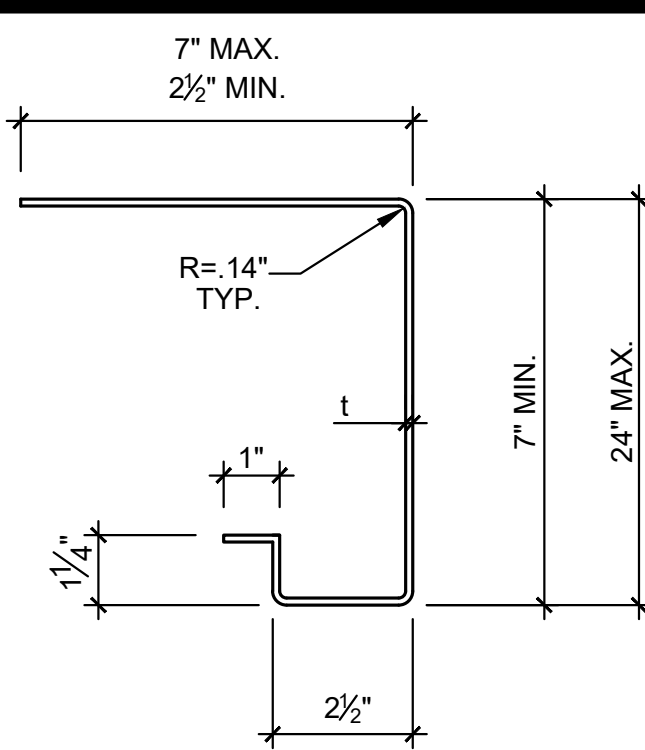
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REVISIONS

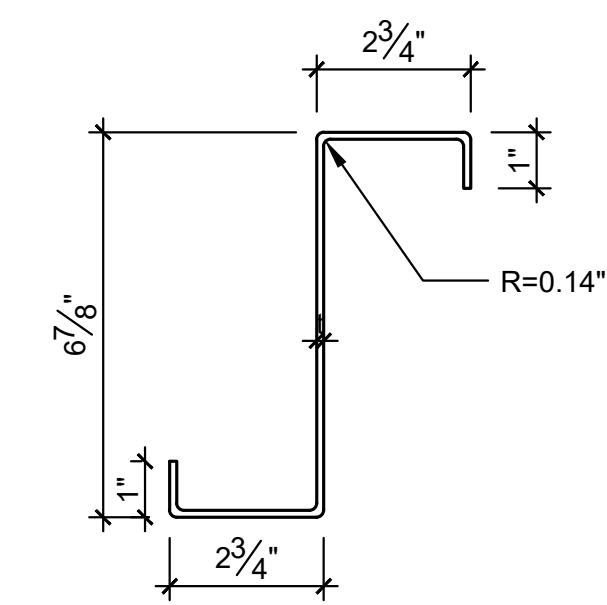
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SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:

STEEL MEMBER PROPERTIES

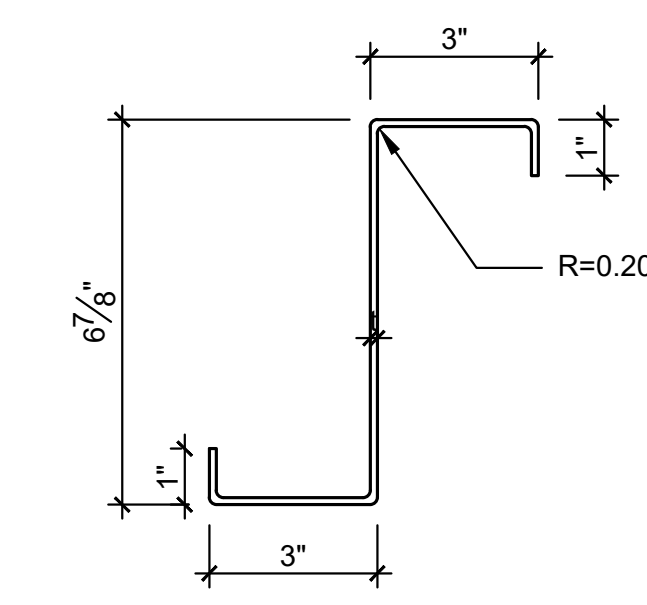
SHEET NUMBER:
S0.0



7" MIN. x 2 1/2" x 14ga SOFFIT BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.97 IN²
Sx = 1.78 IN³
Ix = 6.87 IN⁴
t = 0.068 IN MIN.
(0.0713 IN DESIGN)



6 7/8" x 2 3/4" x 14ga FLOOR JOIST
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.98 IN²
Sx = 2.10 IN³
Ix = 7.22 IN⁴
t = 0.068 IN MIN.
(0.0713 IN DESIGN)



6 7/8" x 3" x 12ga FLOOR JOIST
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.43 IN²
Sx = 3.08 IN³
Ix = 10.54 IN⁴
t = 0.097 IN MIN.
(0.1017 IN DESIGN)

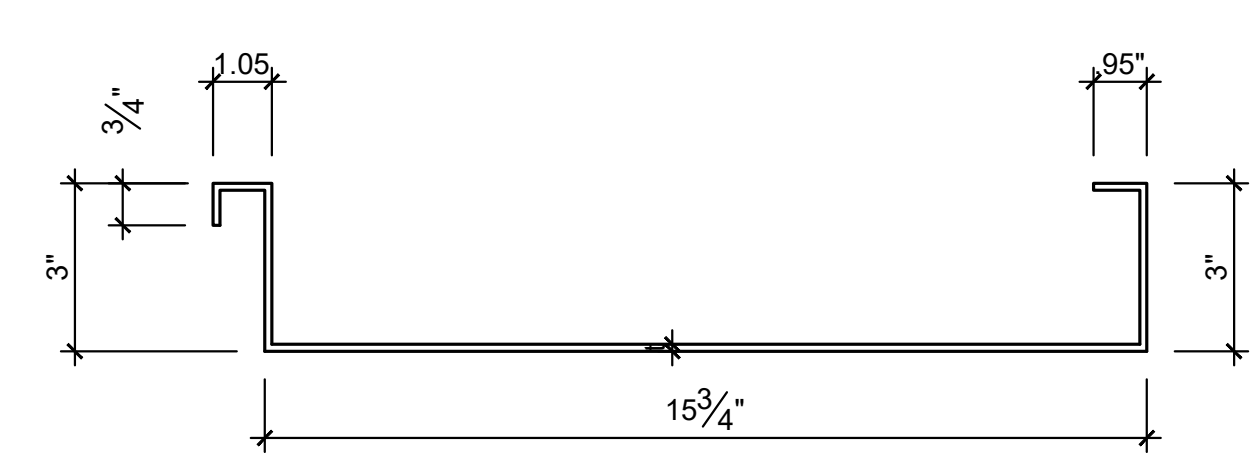
NOT USED

1 NOT USED

2 SOFFIT BEAM PROPERTIES

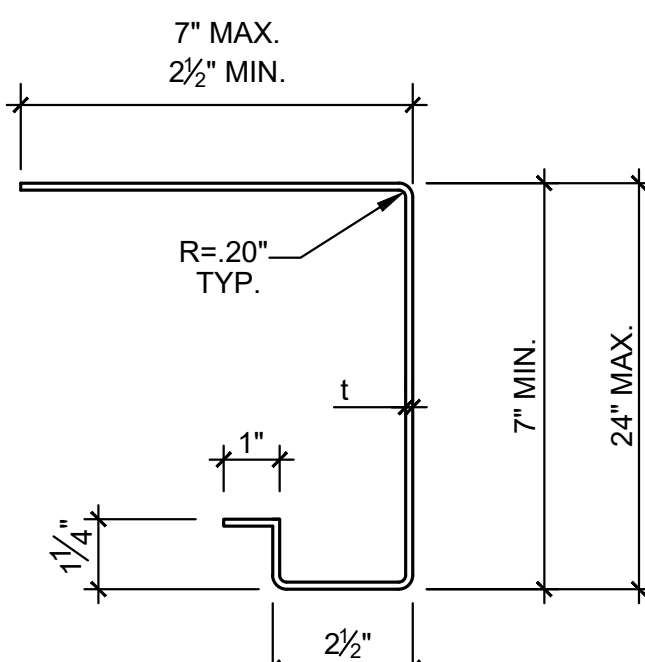
3 LIGHT GAUGE FLOOR JOIST PROPERTIES

5

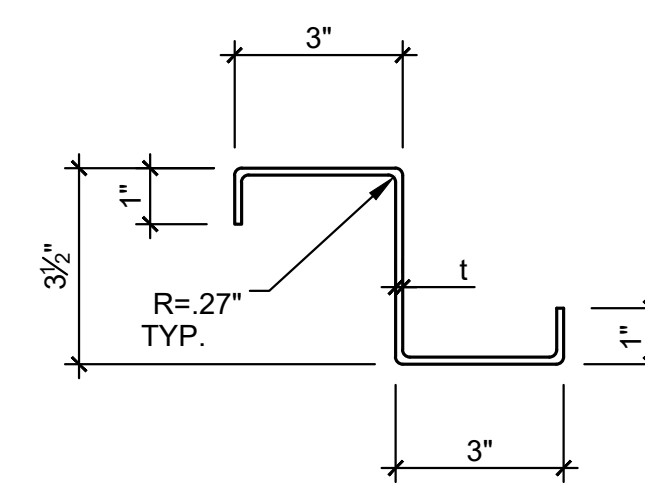


ASTM A1011 SS, GRADE 36 (Fy = 36 ksi)
OR ASTM A653 SS, GRADE 37 (Fy = 37 ksi)

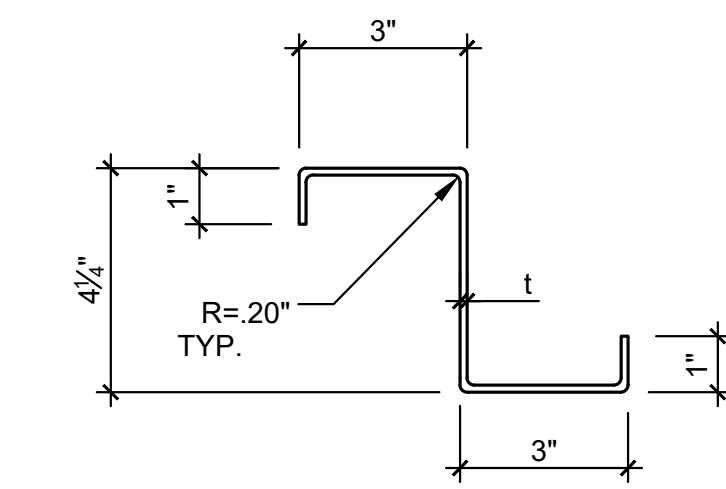
	EFFECTIVE SECTION PROPERTIES		GROSS SECTION PROPERTIES	
w/ GALVANIZATION t=0.0296 IN. MIN.	Sx'(l) = 0.253 IN ³	Sx'(t) = 0.260 IN ³	A = 0.682 IN ²	
	Sx'(b) = 1.109 IN ³	Sx'(b) = 0.226 IN ³	Sx(l) = 0.338 IN ³	
w/o GALVANIZATION t=0.0269 IN. MIN. (0.0283 IN. DESIGN)	Ix' = 0.618 IN ⁴	Ix' = 0.363 IN ⁴	Sx(b) = 1.148 IN ³	
		Ae = 0.180 IN ²	Ix = 0.784 IN ⁴	



7" MIN. x 2 1/2" x 12ga SOFFIT OUTRIGGER BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.36 IN²
Sx = 2.48 IN³
Ix = 9.52 IN⁴
t = 0.097 IN MIN.
(0.1017 IN DESIGN)



3 1/2" x 3" x 10ga ROOF PURLIN
ASTM A1011 SS, GRADE 50
Fy = 50 ksi
A = 1.31 IN²
Sx = 1.51 IN³
Ix = 2.64 IN⁴
t = 0.1278 IN MIN.
(0.1345 IN DESIGN)

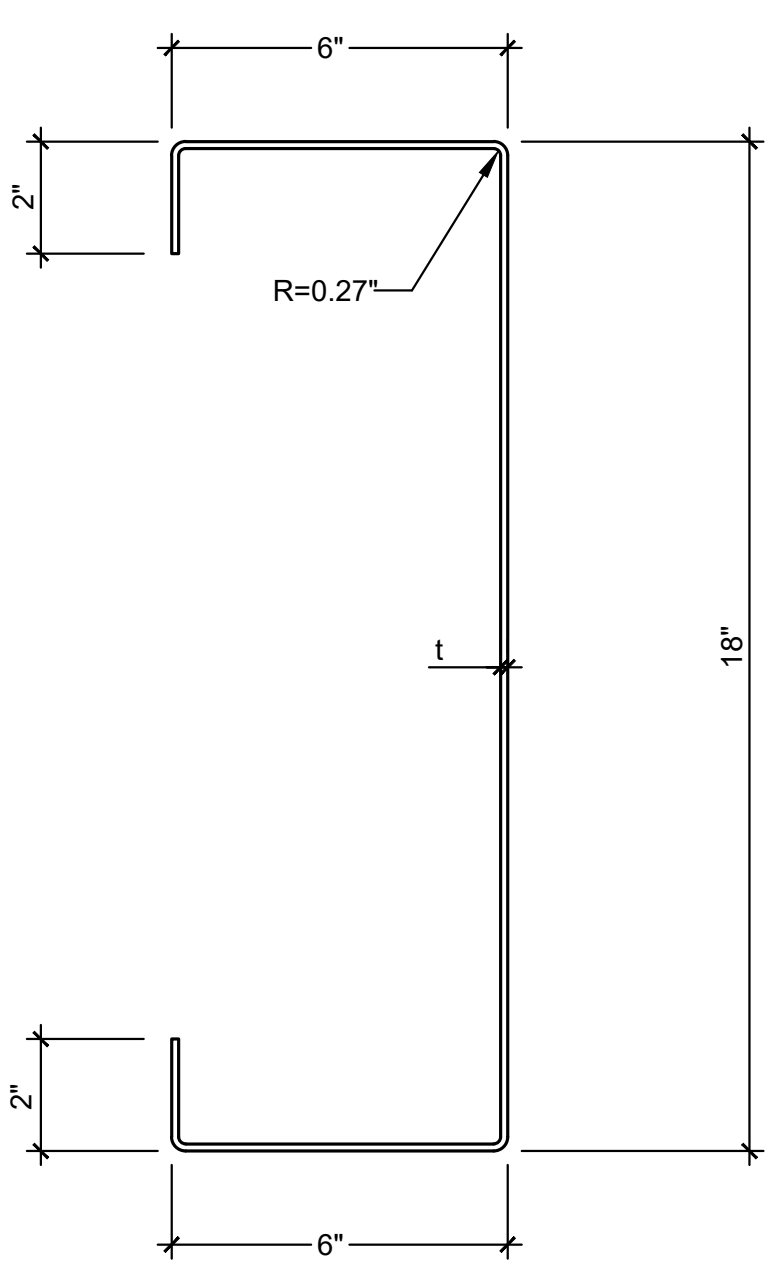


4 1/4" x 3" x 12ga ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.16 IN²
Sx = 1.63 IN³
Ix = 3.46 IN⁴
t = 0.097 IN MIN.
(0.1017 IN DESIGN)

22GA ROOF PAN PROPERTIES

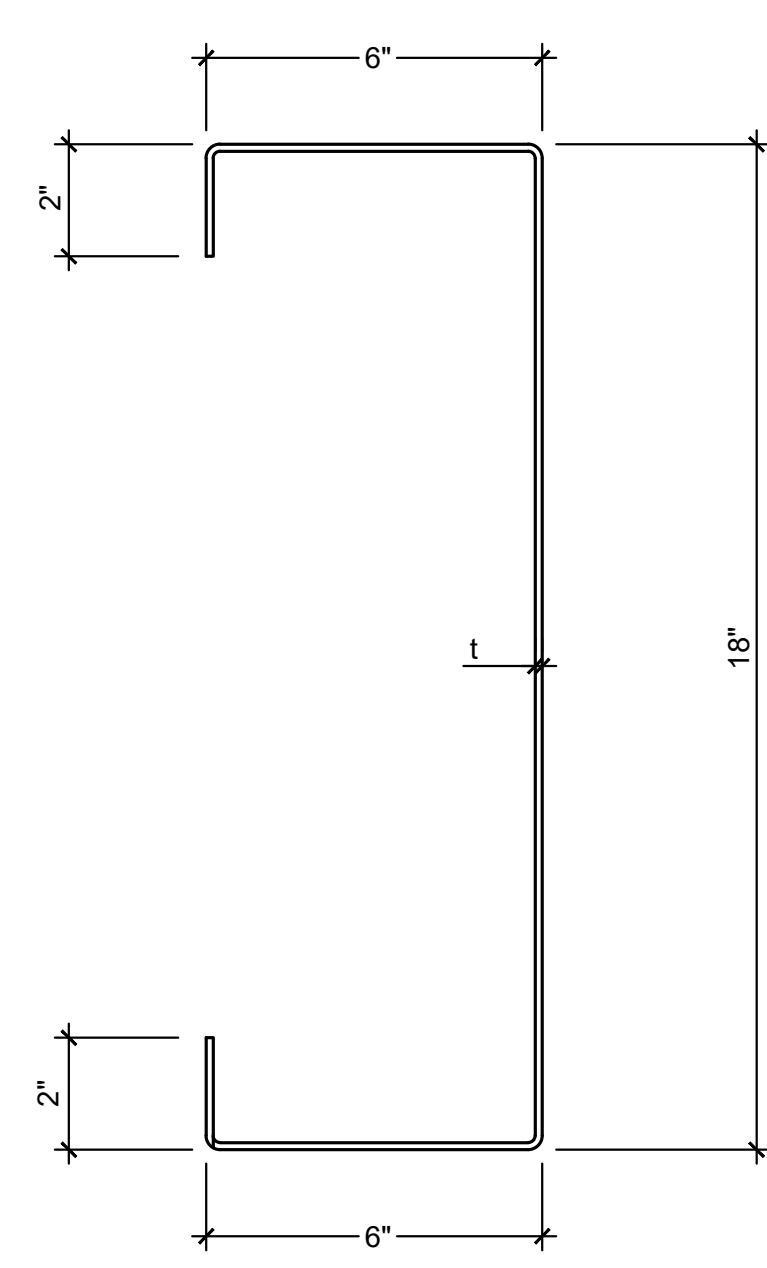
7 SOFFIT OUTRIGGER BEAM PROPERTIES

8



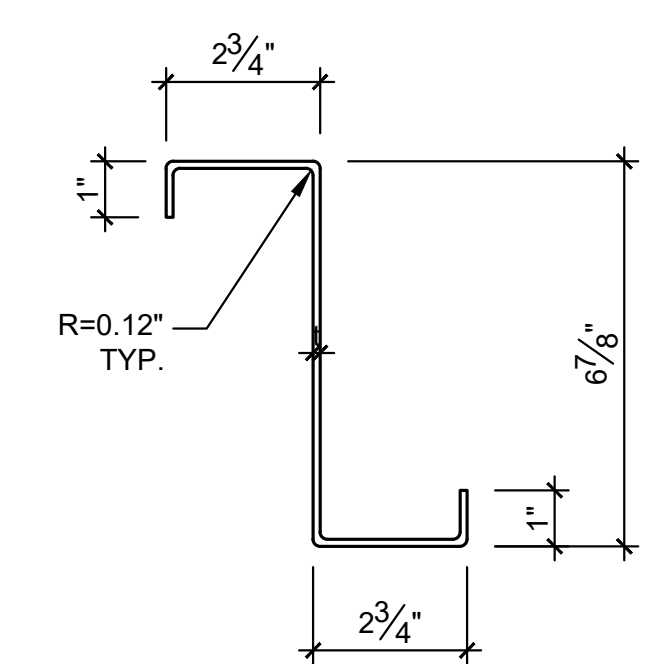
10 GA. LONGITUDINAL BEAM
ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.1278 IN. MIN.
(0.1345 IN. DESIGN)

BEAM DEPTH	18"
A (IN ²)	4.42
Sx MIN. (IN ³)	24.077
Ix MIN. (IN ⁴)	216.70

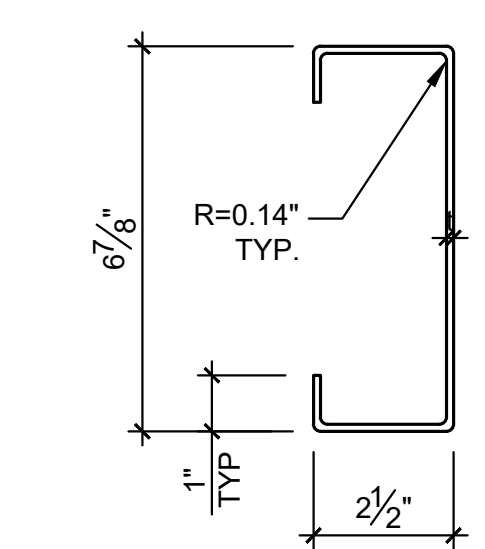


10 GA. TRANSVERSE BEAM / HEADER
ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.1278 IN. MIN.
(0.1345 IN. DESIGN)

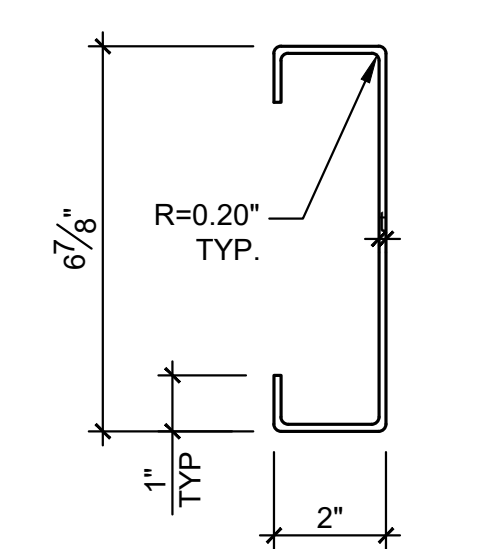
BEAM DEPTH	18"
A (IN ²)	4.42
Sx MIN. (IN ³)	24.077
Ix MIN. (IN ⁴)	216.70



6 7/8" x 2 3/4" x 16ga 'Z' TYPICAL ROOF PURLIN
ASTM A1011 SS, GRADE 50
Fy = 50 ksi
A = 0.79 IN²
Sx = 1.69 IN³
Ix = 5.82 IN⁴
t = 0.0538 IN MIN.
(0.0566 IN DESIGN)



6 7/8" x 2 1/2" x 14ga 'C' ALTERNATE ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.95 IN²
Sx = 1.98 IN³
Ix = 6.81 IN⁴
t = 0.0677 IN MIN.
(0.0713 IN DESIGN)



6 7/8" x 2" x 12ga 'C' ALTERNATE ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.22 IN²
Sx = 2.39 IN³
Ix = 8.20 IN⁴
t = 0.0966 IN MIN.
(0.1017 IN DESIGN)

LIGHT GAUGE ROOF PURLIN PROPERTIES

15

- THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
- UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES.
- LIGHT GAUGE STRUCTURAL MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING. SEE SHEET N2.0, "LIGHT GAUGE METAL STUDS & COLD FORMED STEEL", FOR ADDITIONAL INFORMATION.

ROOF BEAM PROPERTIES

18 NOT USED

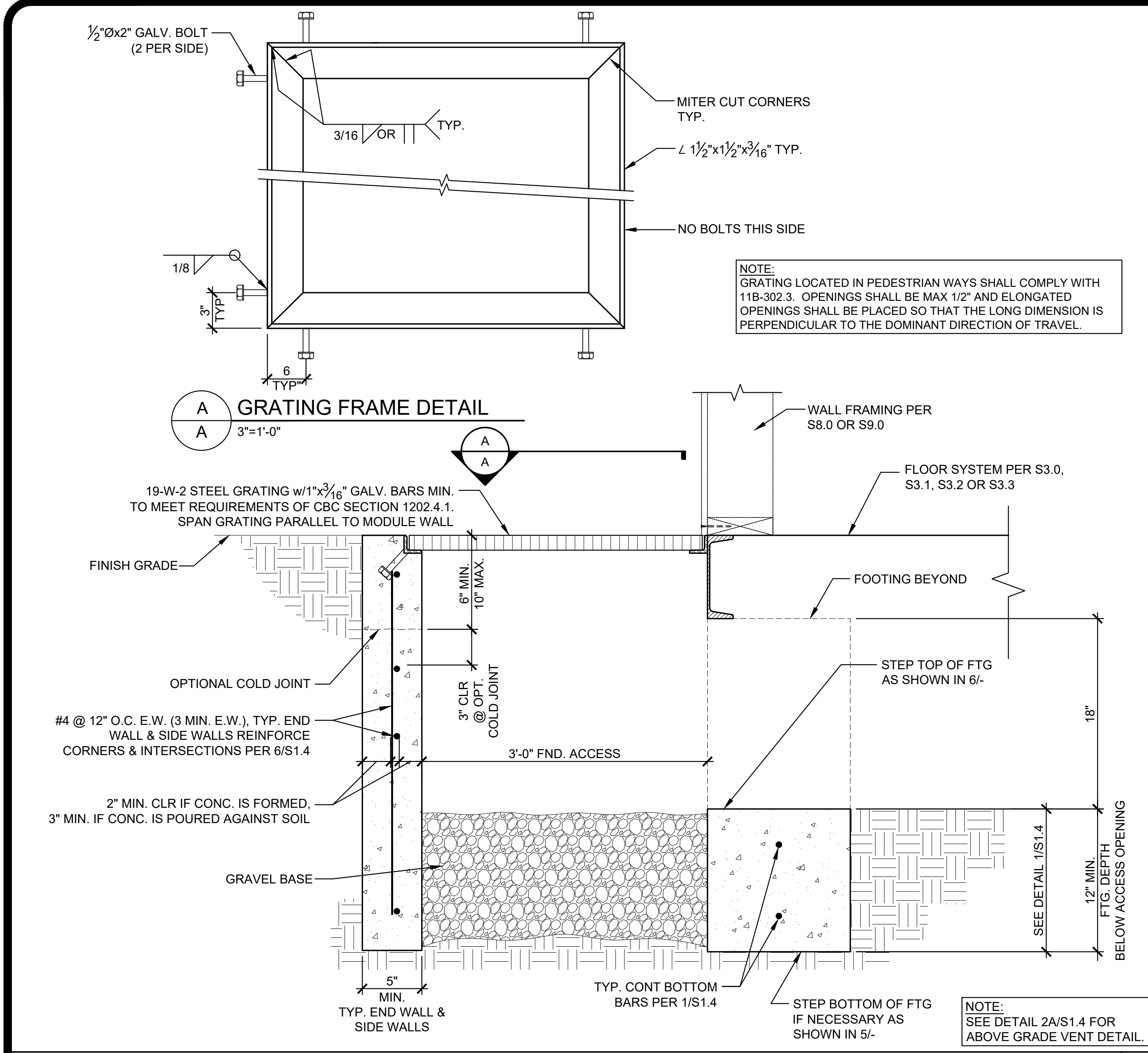
19 SHEET NOTES

REVISIONS

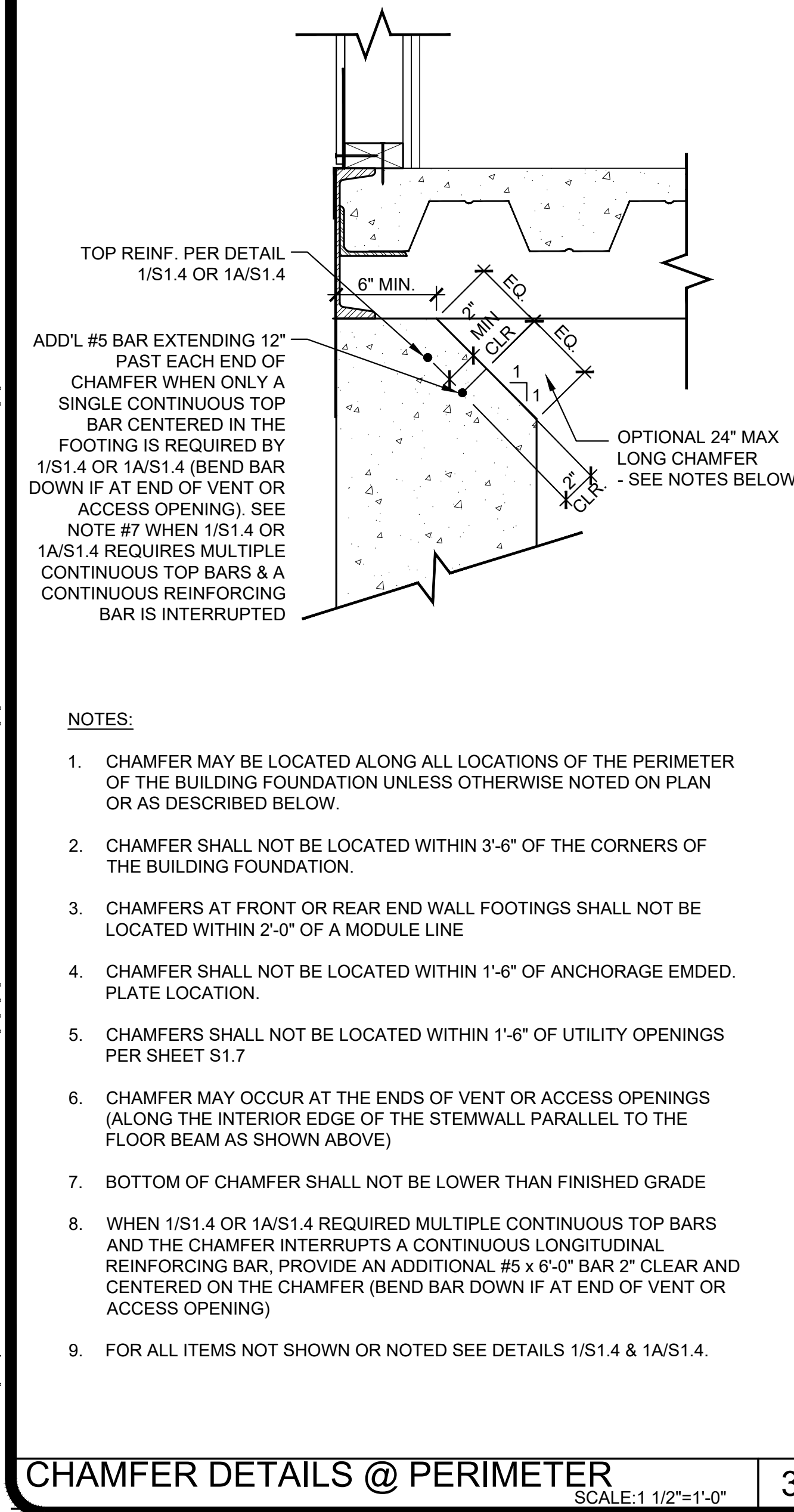
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 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE:

**CONCRETE FOUNDATION
 DETAILS**

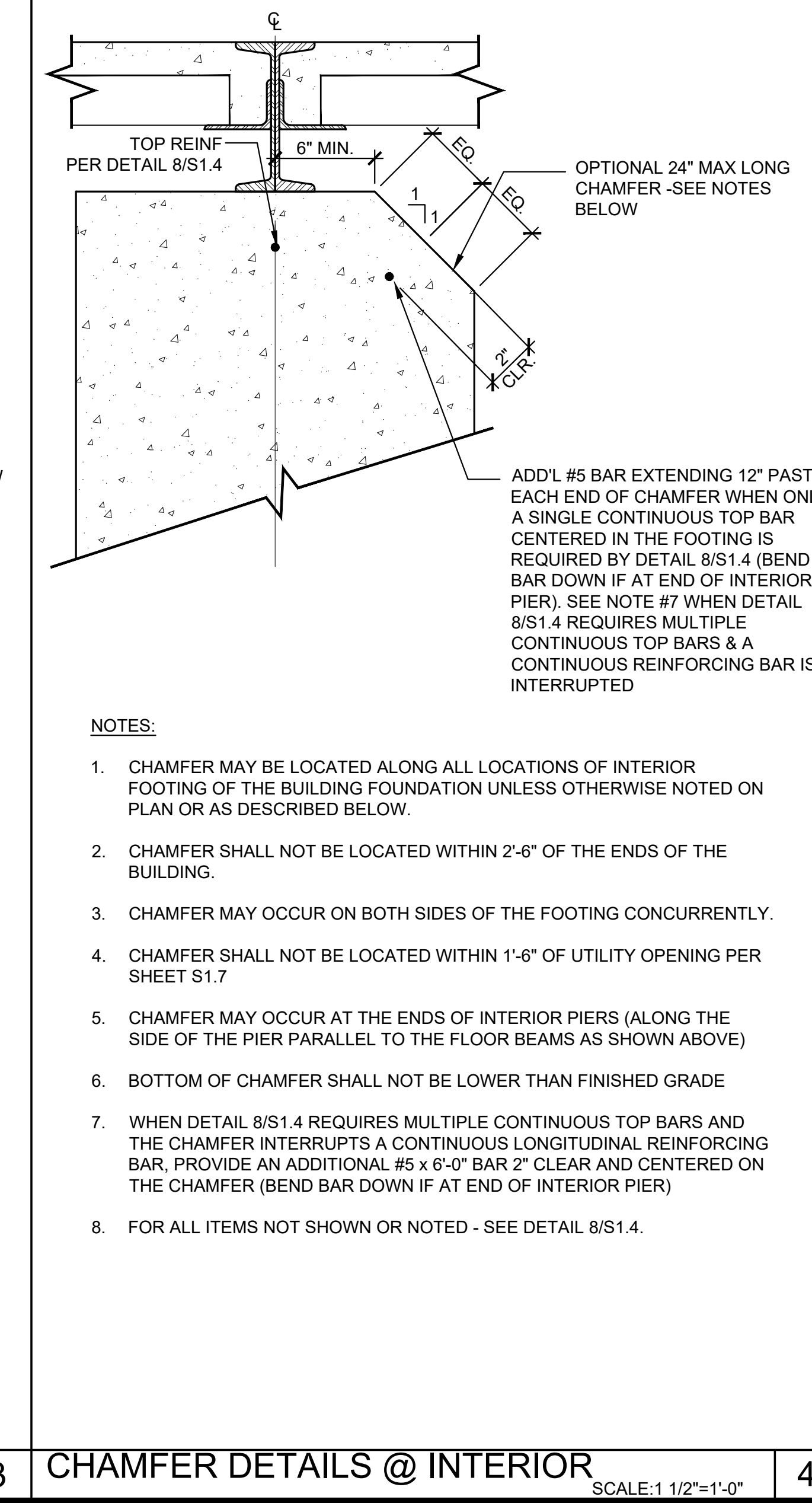
SHEET NUMBER:
S1.5



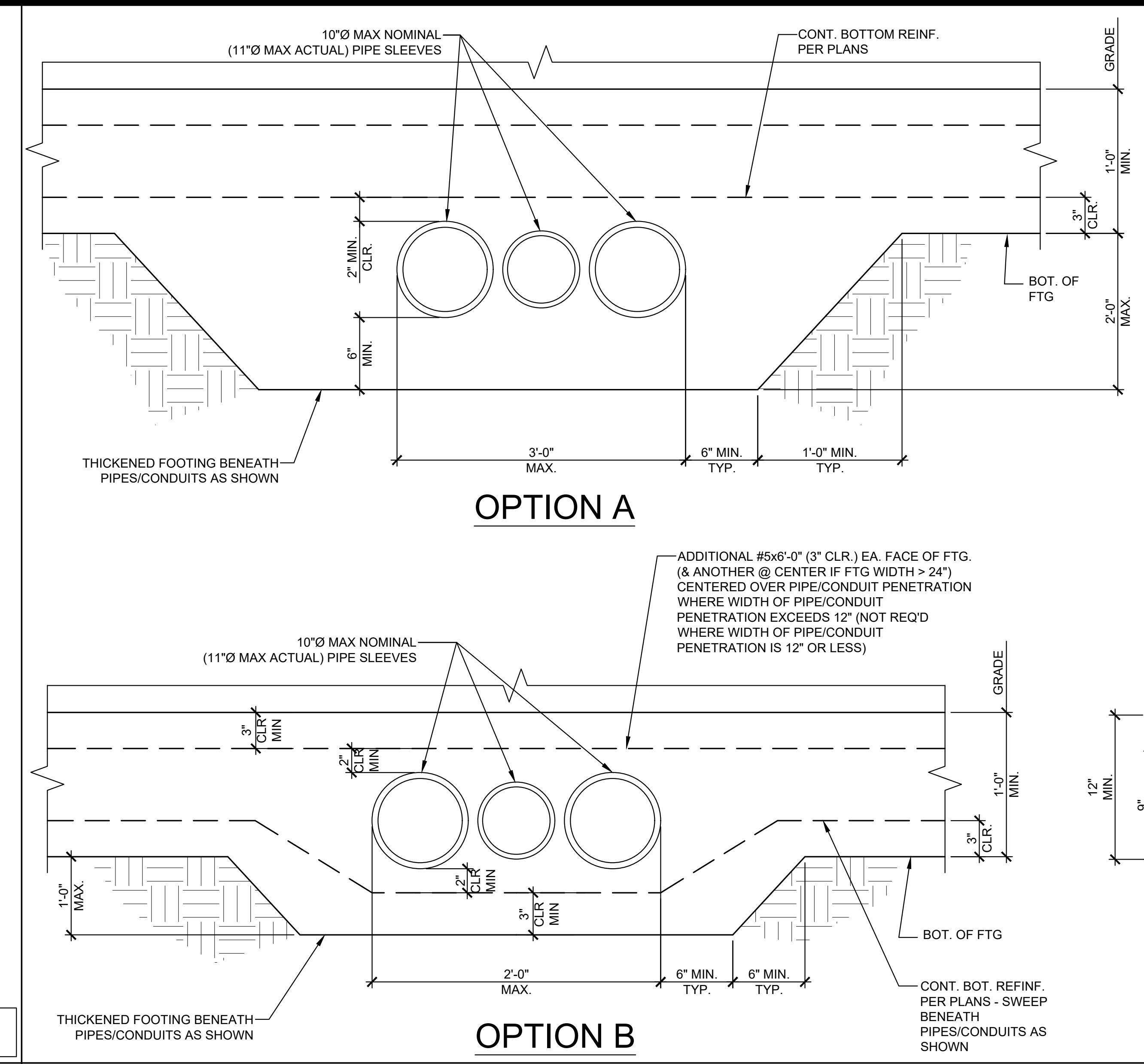
BELOW GRADE SECTION / ACCESS WELL DETAIL
 SCALE: 1/2"=1'-0"



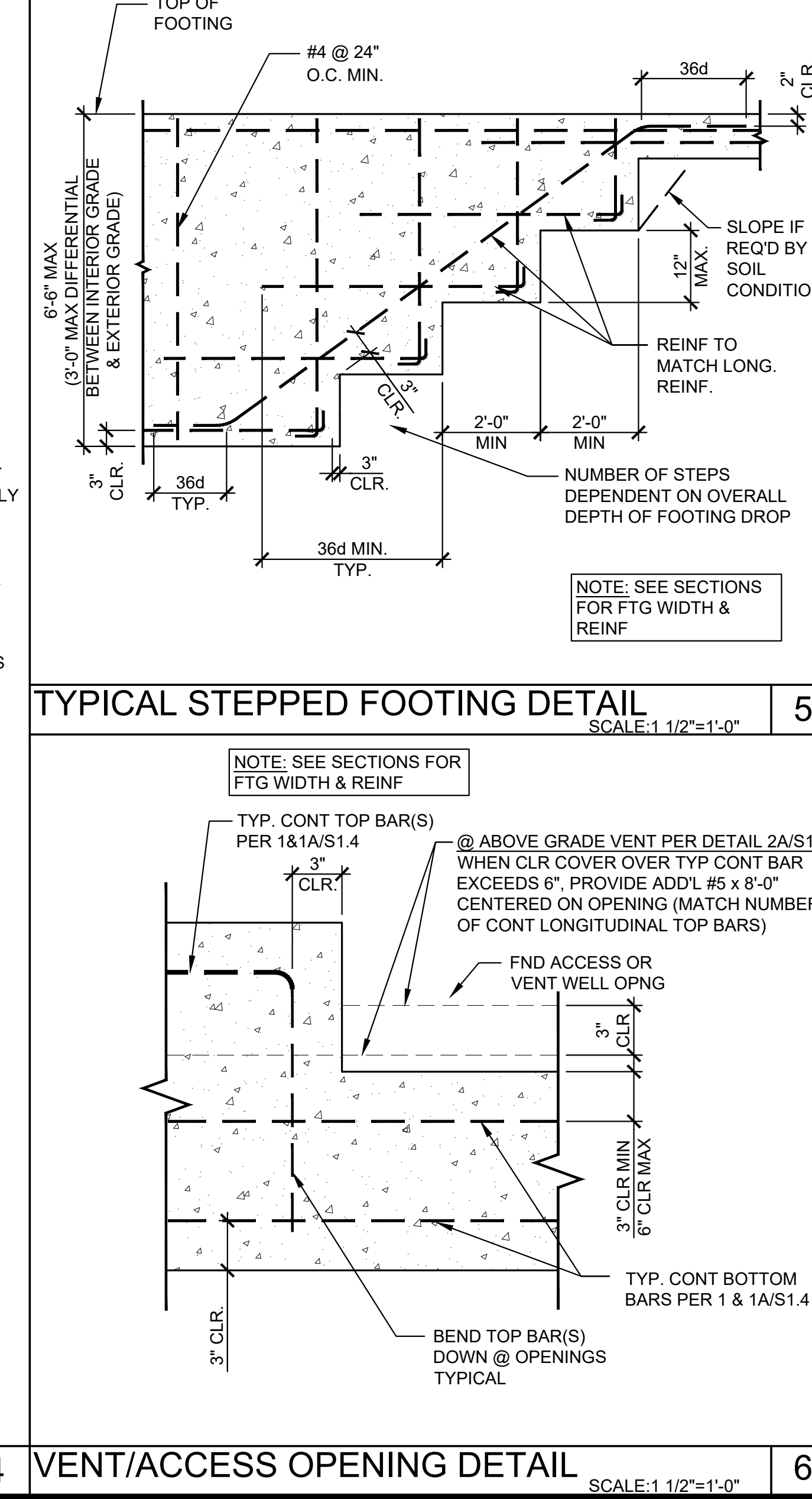
CHAMFER DETAILS @ PERIMETER
 SCALE: 1/2"=1'-0"



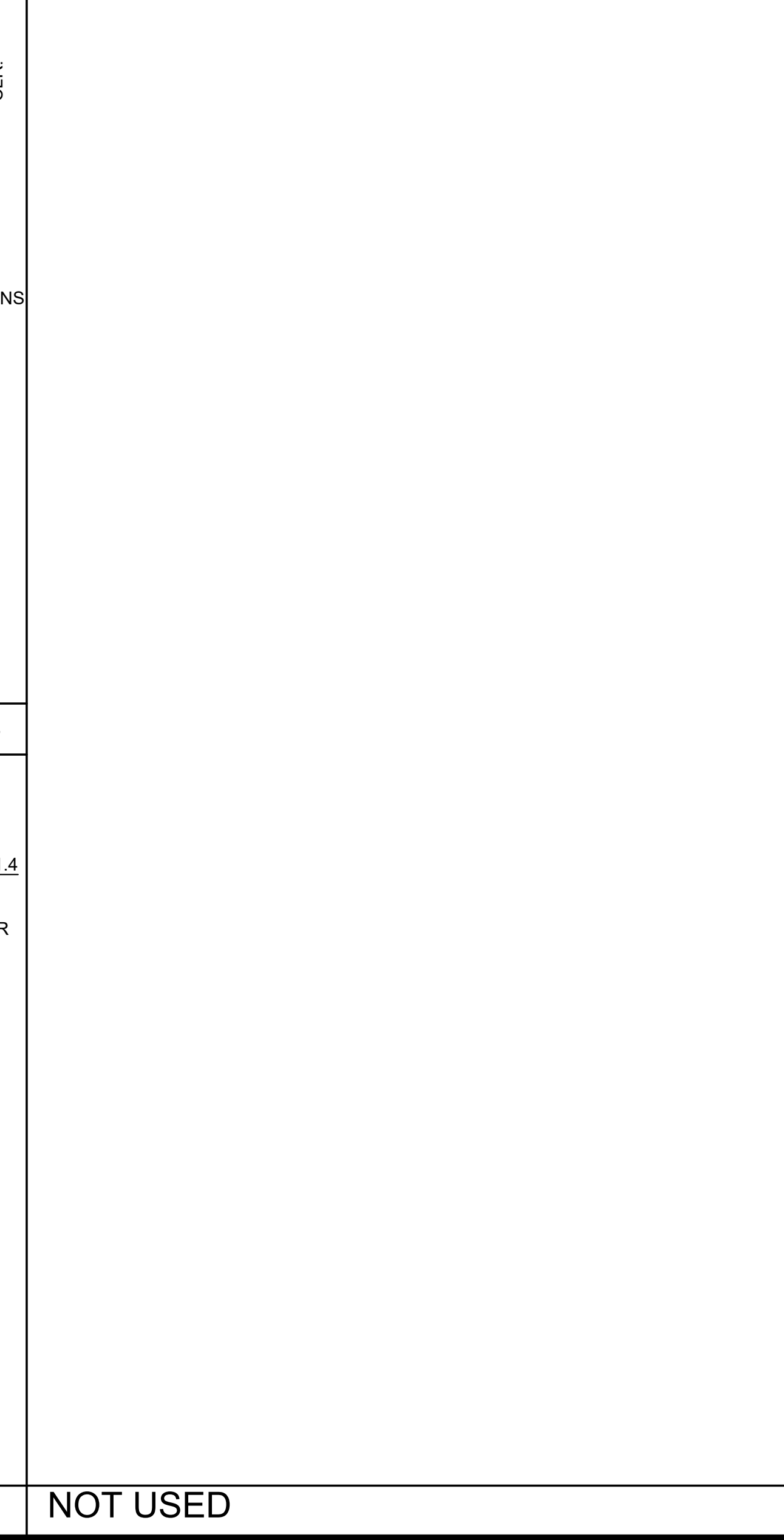
CHAMFER DETAILS @ INTERIOR
 SCALE: 1/2"=1'-0"



PIPE SLEEVE DETAIL
 SCALE: 1-1/2"=1'-0"

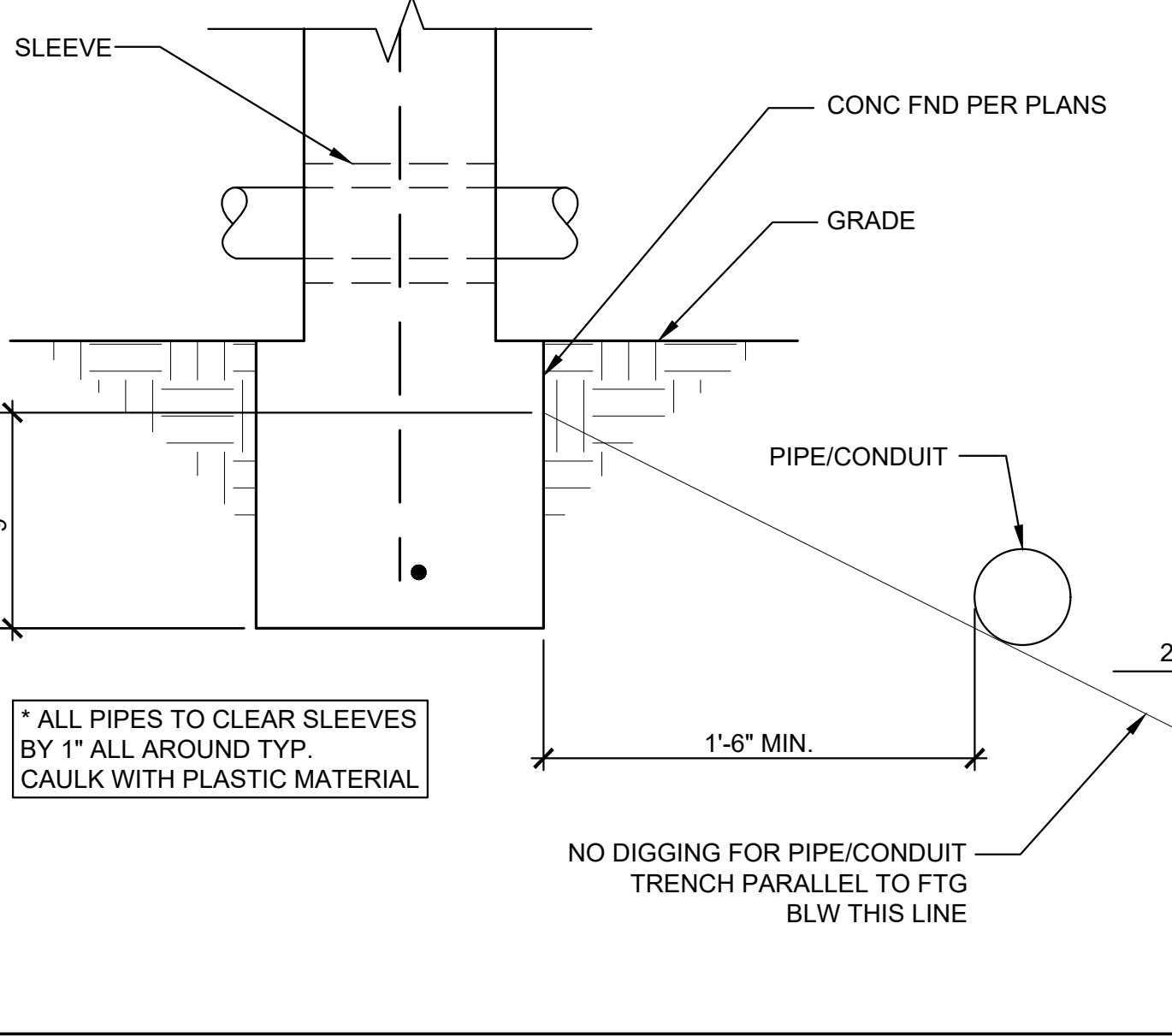


VENT/ACCESS OPENING DETAIL
 SCALE: 1/2"=1'-0"



NOT USED
 SCALE: 1/2"=1'-0"

- NOTES:
- AS AN OPTION TO INDIVIDUAL PIPE SLEEVES, THE FOOTING MAY BE BLOCKED OUT FOR MULTIPLE PIPES (10" HIGH x 36" WIDE MAX @ OPTION "A", 10" HIGH x 24" WIDE MAX @ OPTION "B") OR INDIVIDUALLY. PROVIDE 1" MIN. CLEARANCE ALL AROUND BETWEEN PIPES/CONDUITS & BLOCKOUTS/SLEEVES & FILL W/ CAULK.
 - CONCRETE SHALL BE WELL CONSOLIDATED AROUND & UNDER PIPES, CONDUITS, SLEEVES, BLOCKOUTS TO PREVENT CONCRETE VOIDS.
 - PROVIDE 2" CLEAR MIN BETWEEN BLOCKOUT SLEEVES AND REINFORCEMENT.
 - WHERE TOP OF PIPES/CONDUITS ARE 12" OR MORE BELOW THE BOTTOM OF THE FOOTING, THICKENED FOOTING AROUND PIPES/CONDUITS IS NOT REQUIRED. BACKFILL & COMPACT TO 95% OVER PIPES / CONDUITS PRIOR TO PLACING FOOTING.



SLEEVE DETAIL
 SCALE: 1-1/2"=1'-0"



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PRE-CHECK SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
 .
 .
 .

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PRODUCT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC

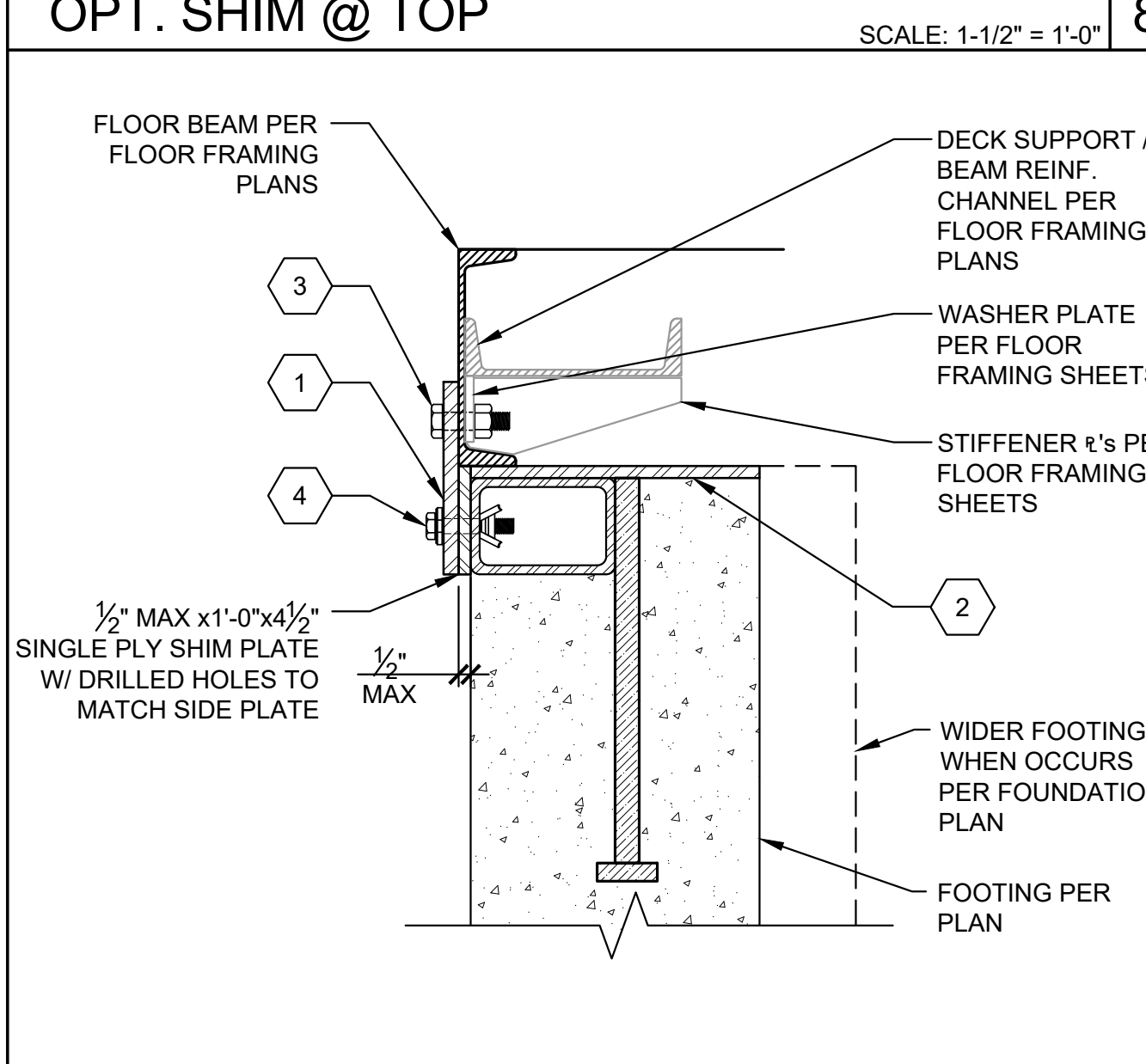
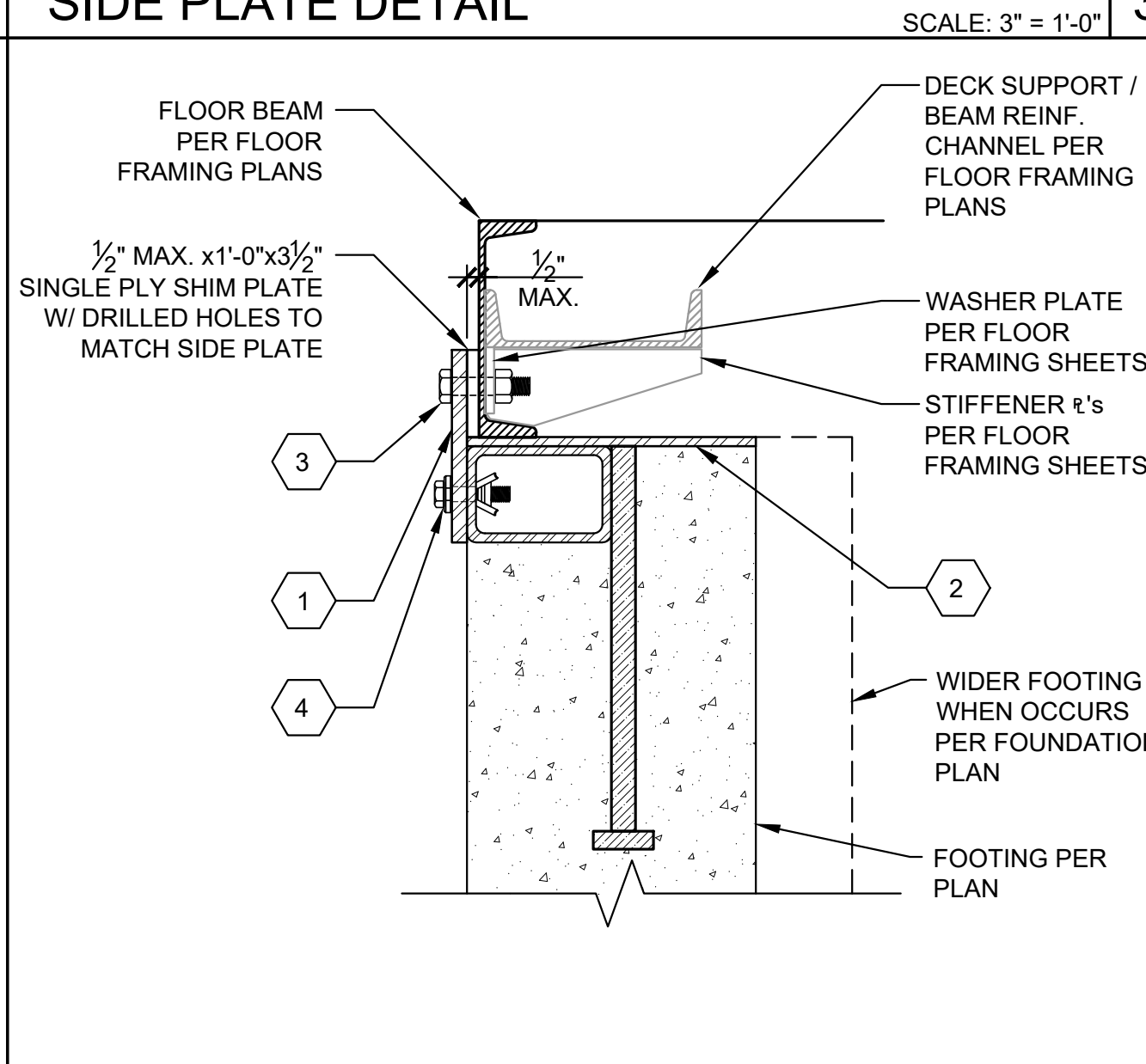
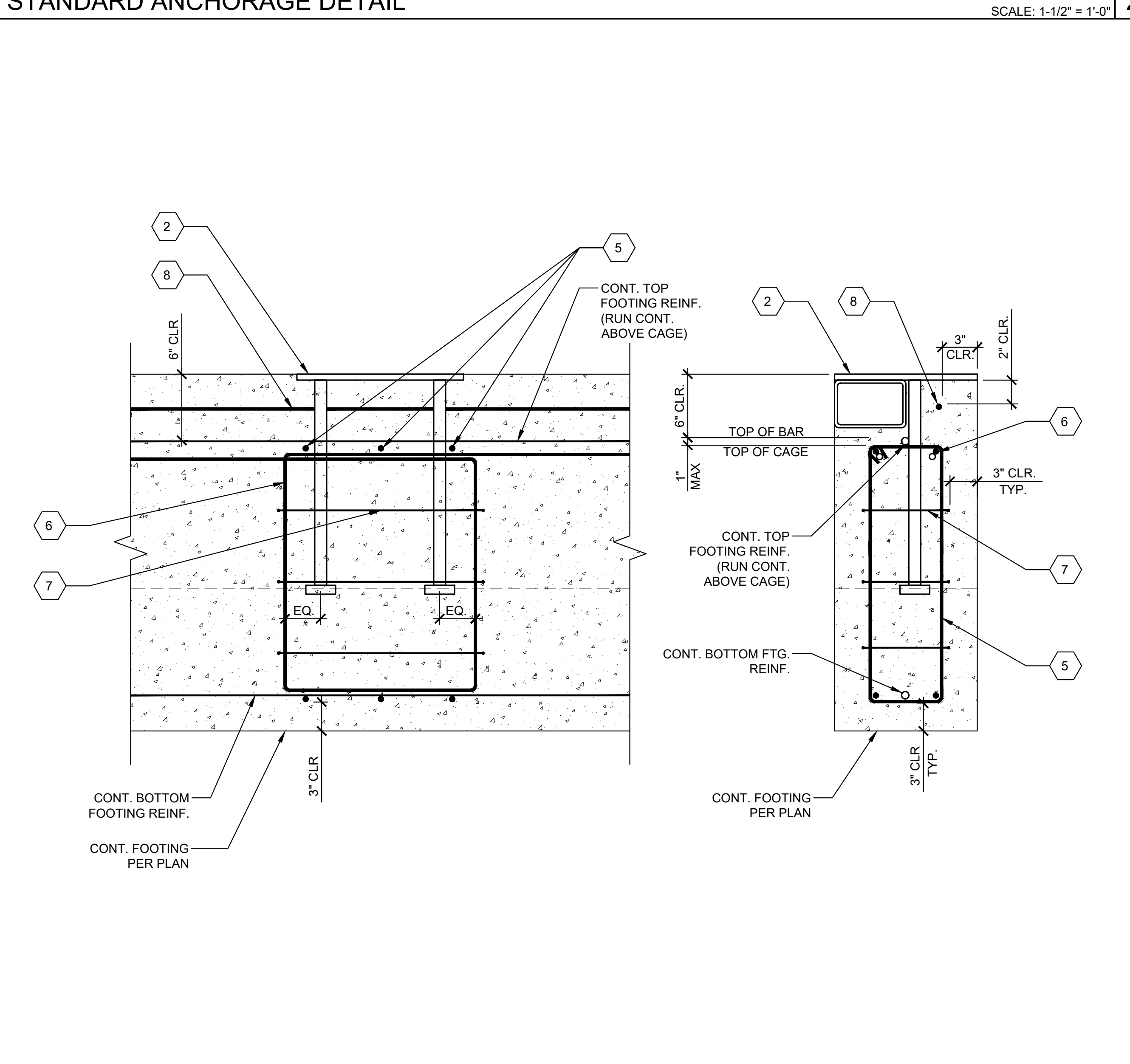
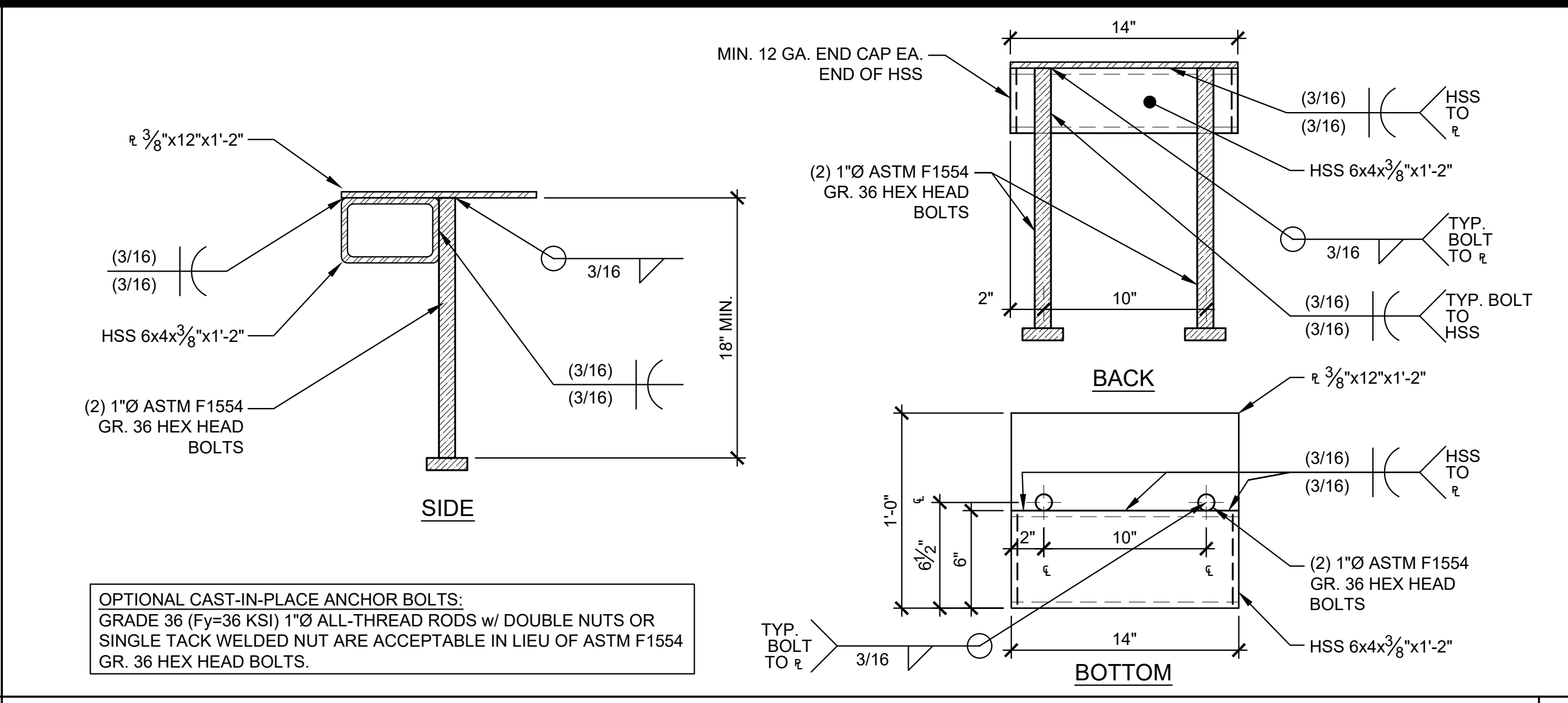
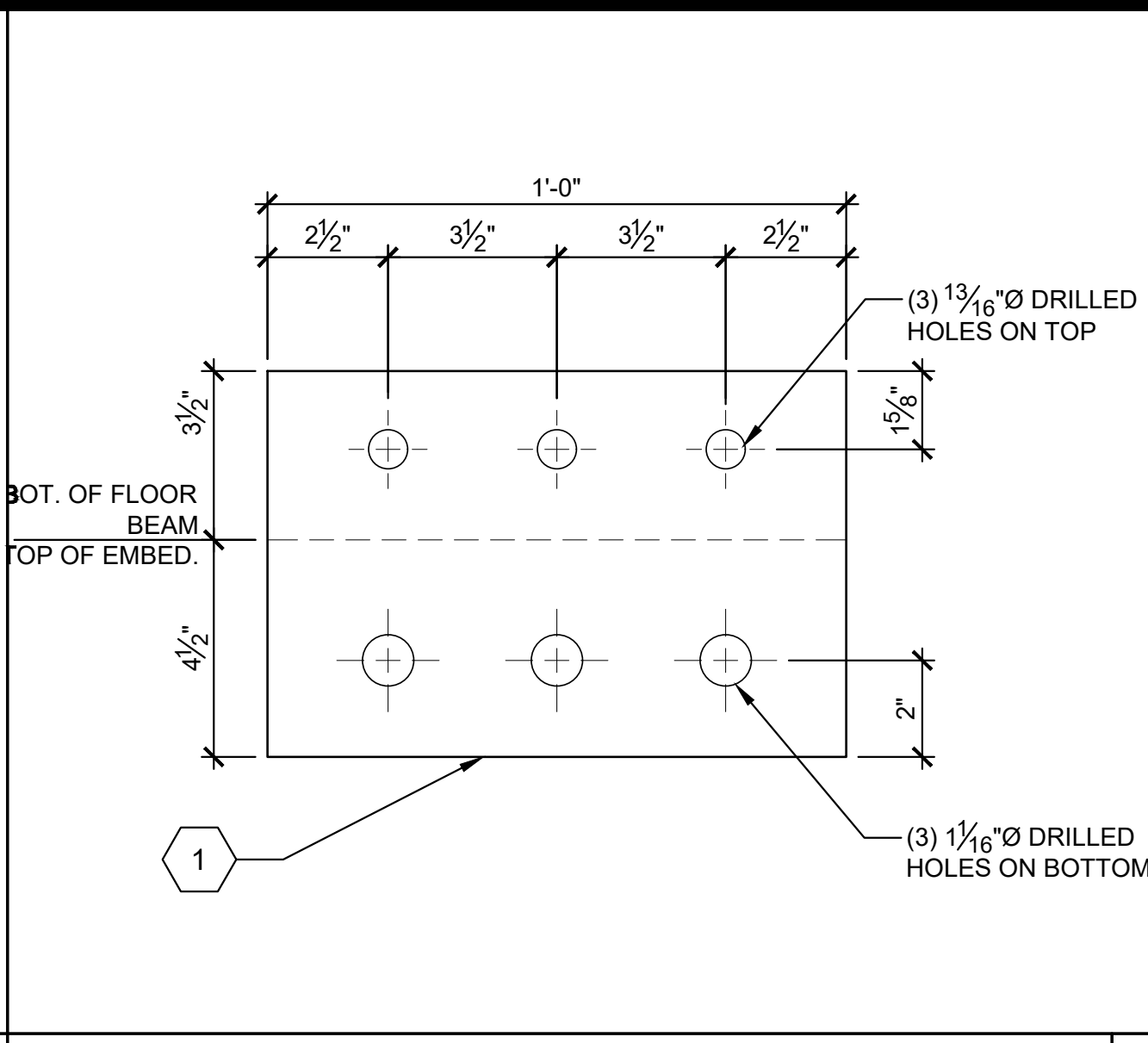
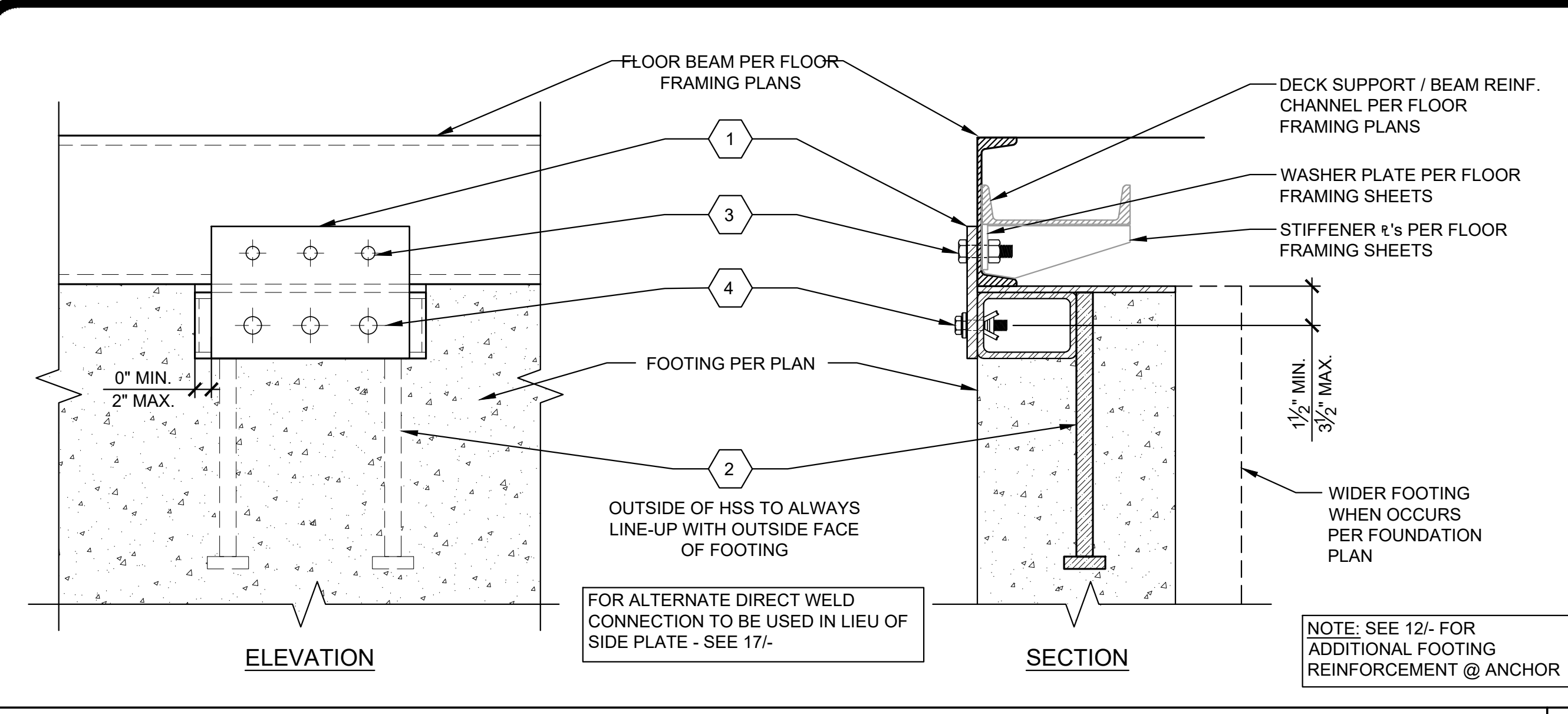
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REVISIONS

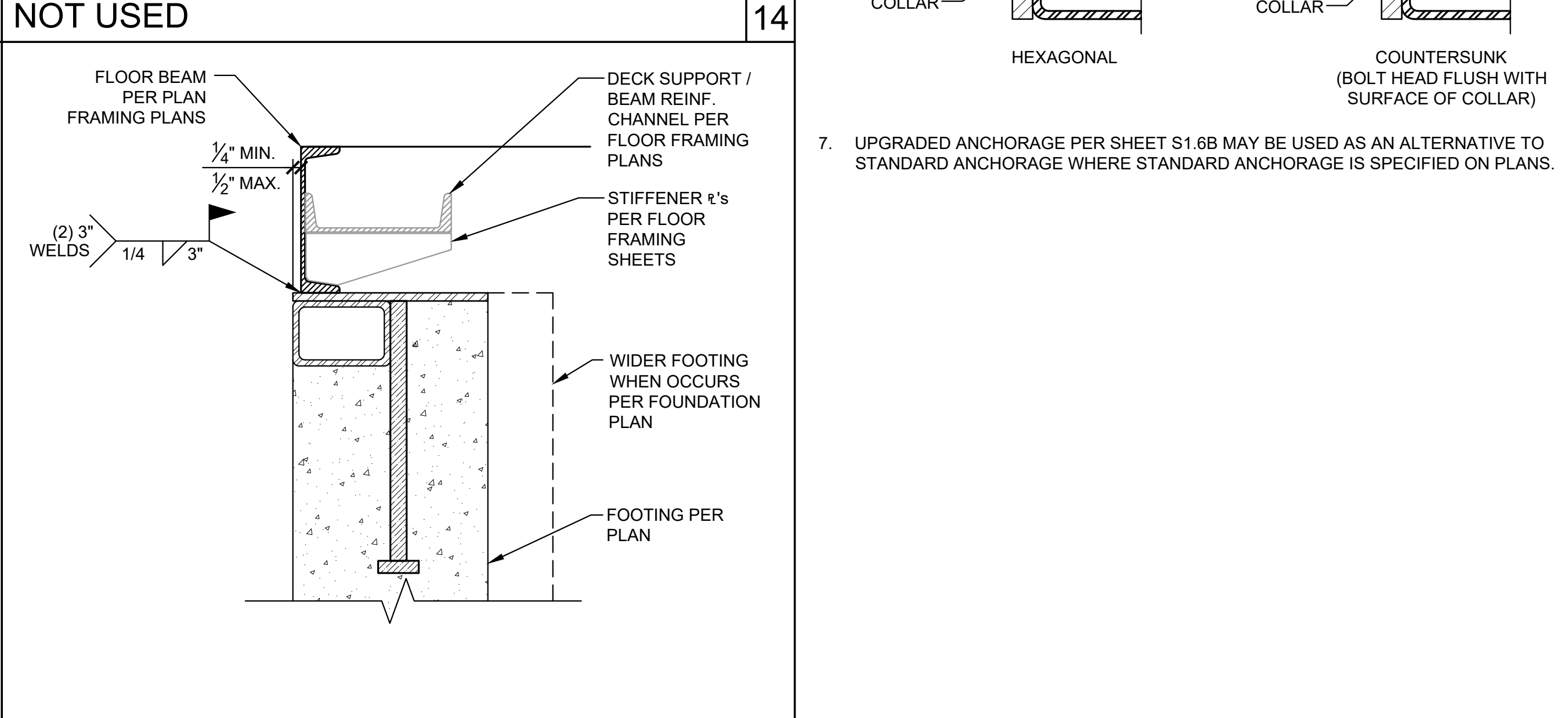
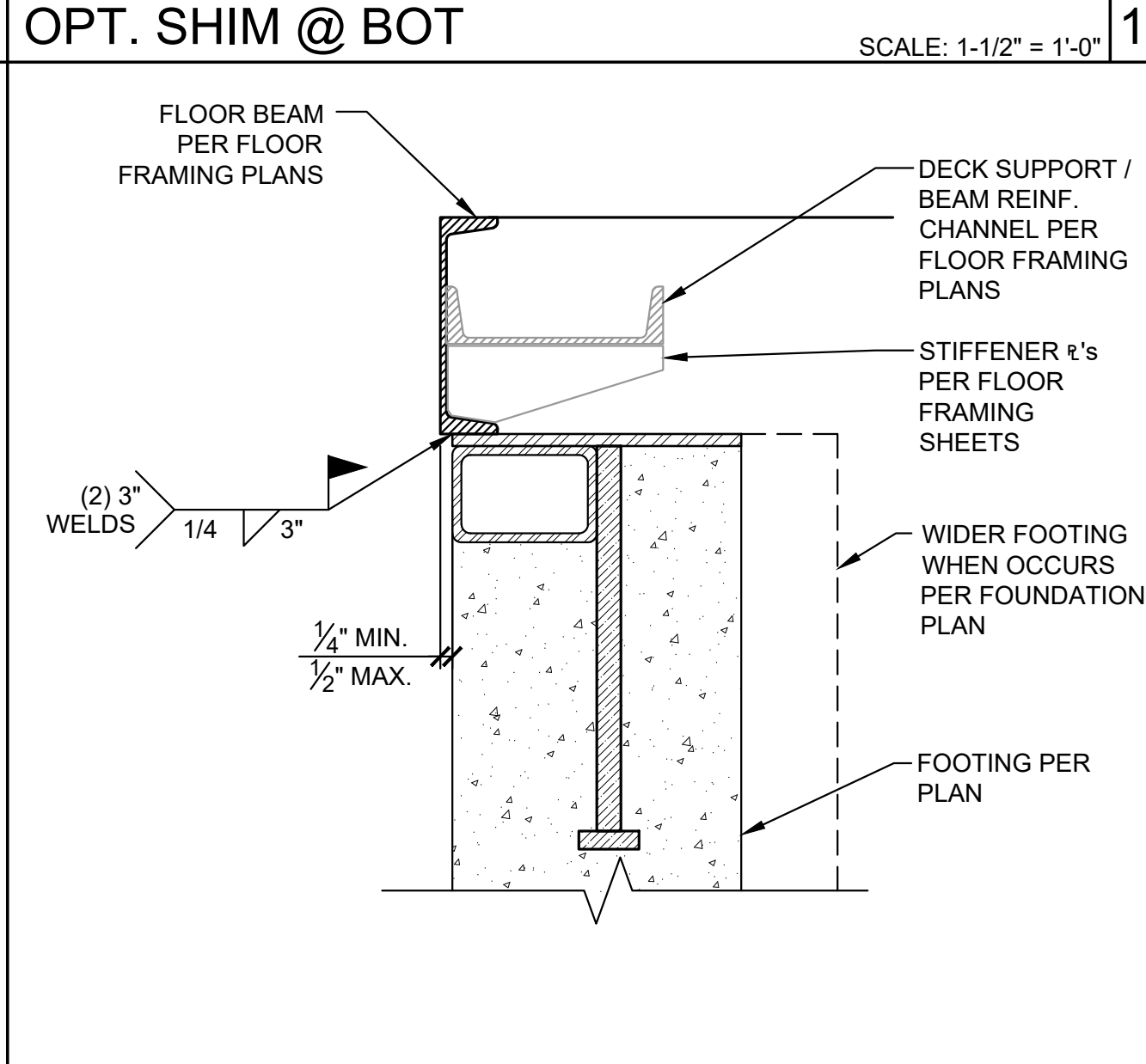
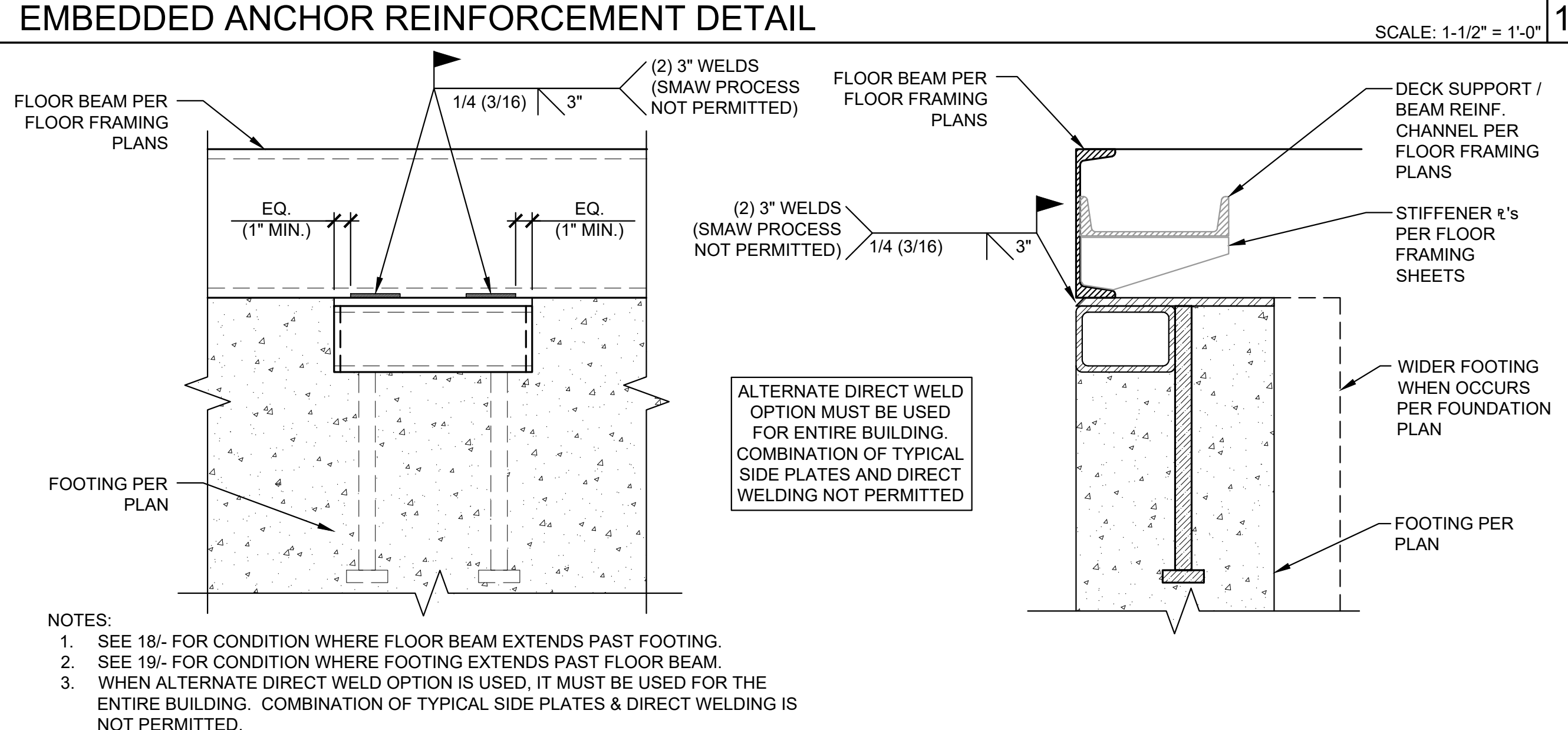
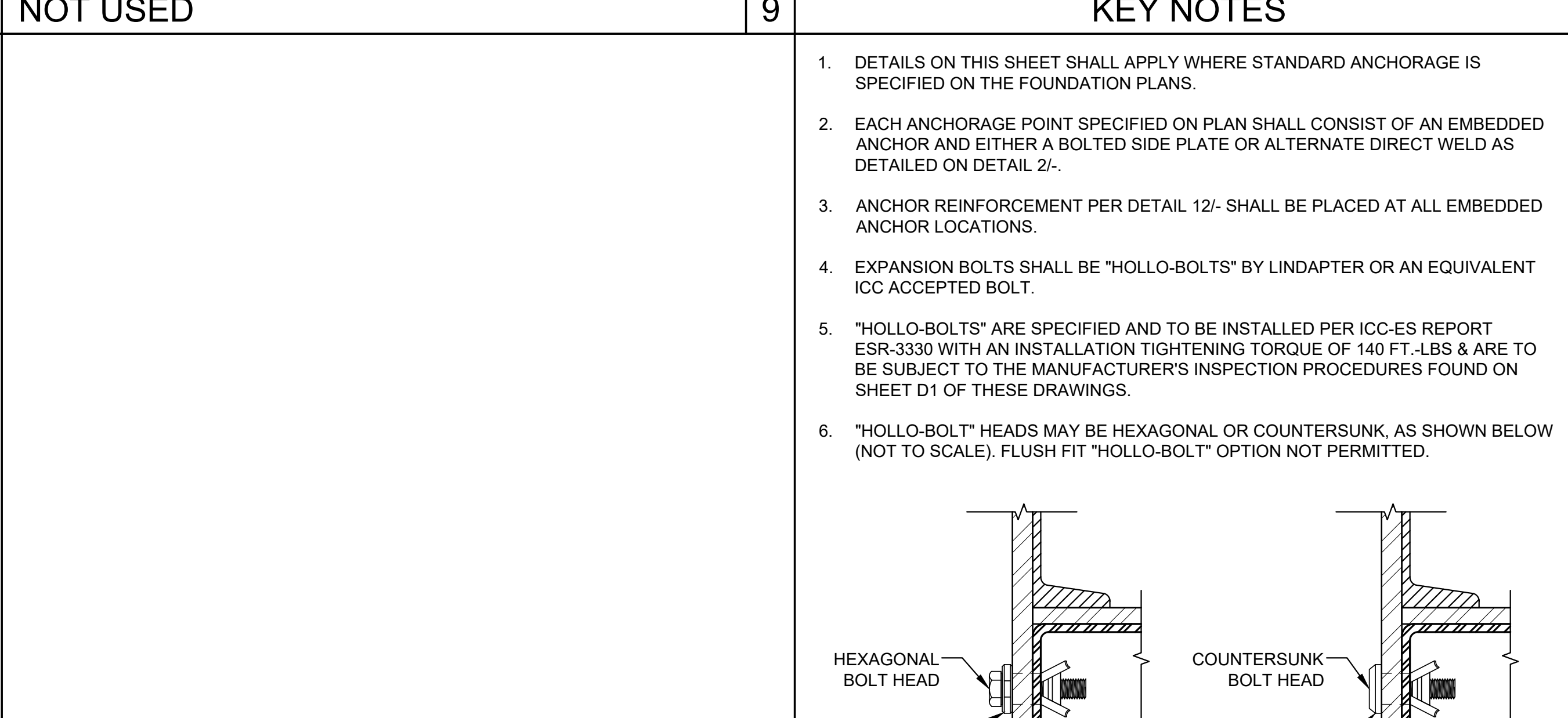
NO.	DESCRIPTION

DRAWN BY: AS NOTED
 SCALE: AS NOTED
 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE: STANDARD ANCHORAGE FOUNDATION DETAILS
 SHEET NUMBER:

S1.6A



- KEY NOTES**
- 1/2"x8"x1'-0" (36 KSI) OR 3/8"x8"x1'-0" (50 KSI) SIDE PLATE. LOCATION PER PLAN - SEE 3/-
 - EMBEDDED ANCHOR. LOCATION PER PLAN - SEE 5/-
 - 3/4" M.B. THRU-BOLTED THROUGH SIDE & FLOOR BEAM w/ 13/16" HOLES - SEE 8/- FOR OPTIONAL SHIM DETAIL.
 - 3/8" LHM16 "HOLLO-BOLT" EXPANSION BOLTS PER ICC ESR-3330 THROUGH SIDE & INTO THE HSS OF THE EMBEDDED ANCHOR w/ 1/2" HOLES - SEE GENERAL NOTES FOR SPECS. & INSTALLATION REQUIREMENTS, - SEE 13/- FOR OPTIONAL SHIM DETAIL.
 - #3 VERTICAL HOOPS PER 12"- FORMED PER 5/S1.4 & EVENLY SPACED @ ANCHORS.
 - #4 BENT BARS CENTERED ON ANCHORS - (1) EA. SIDE OF ANCHORS.
 - #3 HORIZONTAL HOOPS PER 12"- FORMED PER 5/S1.4 & SPACED @ 6" O.C.
 - ADDITIONAL #5x8'-0" CENTERED @ ANCHOR. BEND DOWN @ VENTS OR AROUND PERIMETER @ CORNERS.



GENERAL NOTES

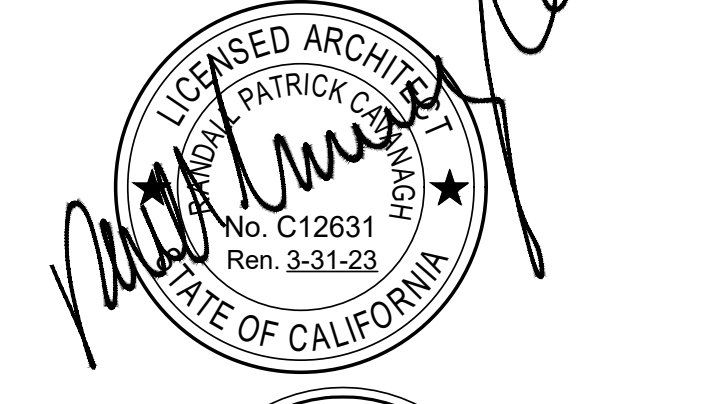


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
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FORM

SITE SPECIFIC PROJECT NAME
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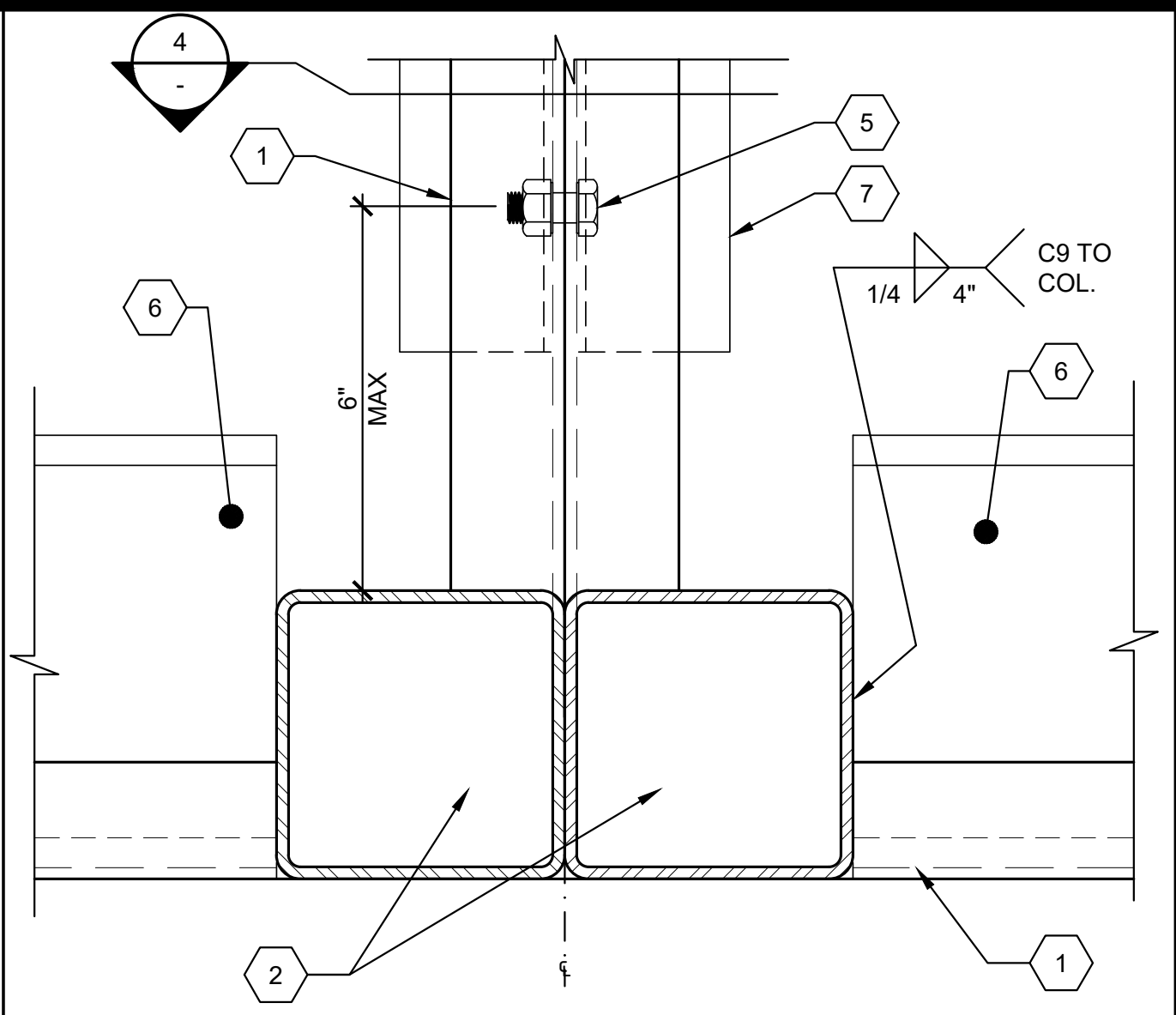
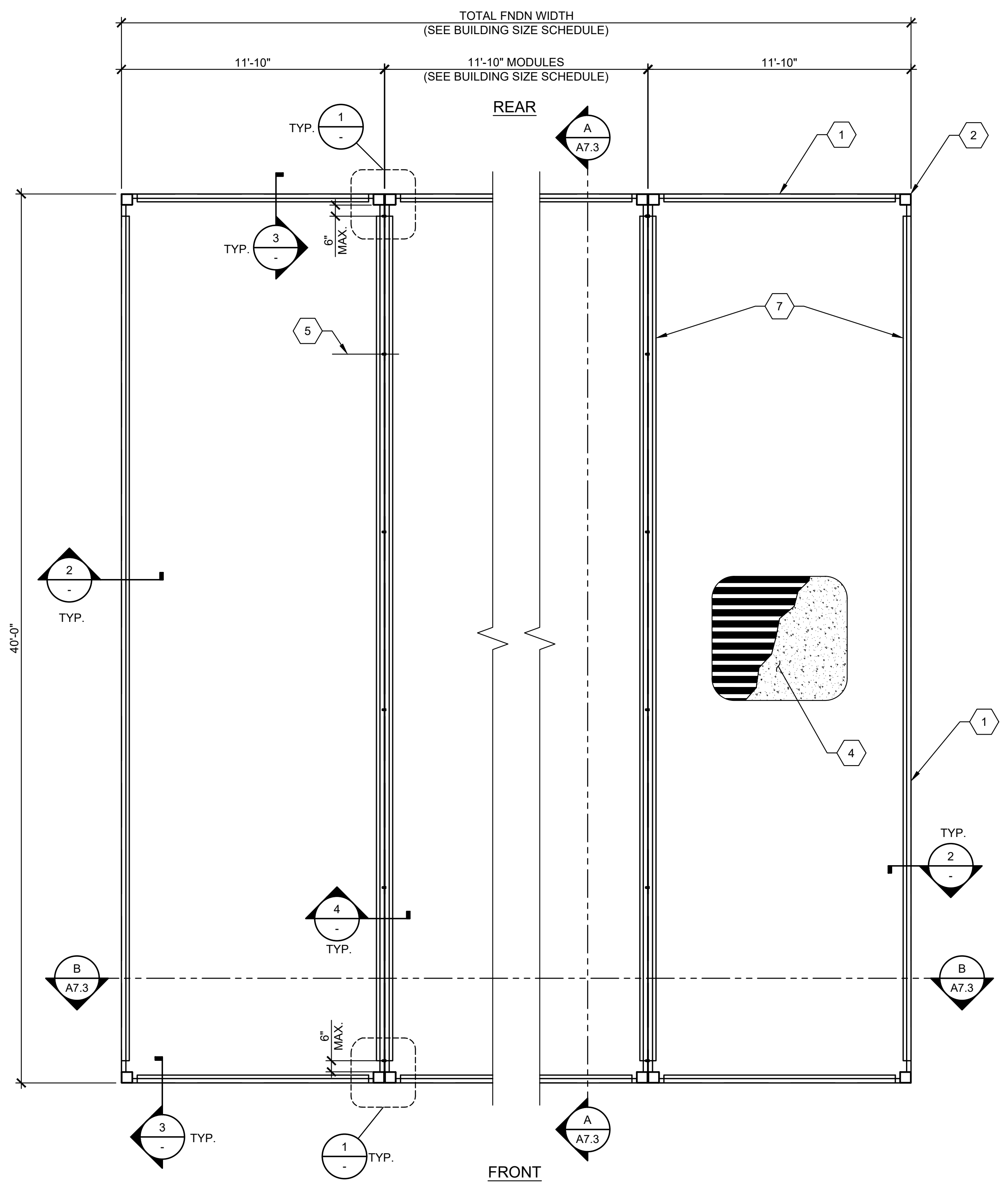
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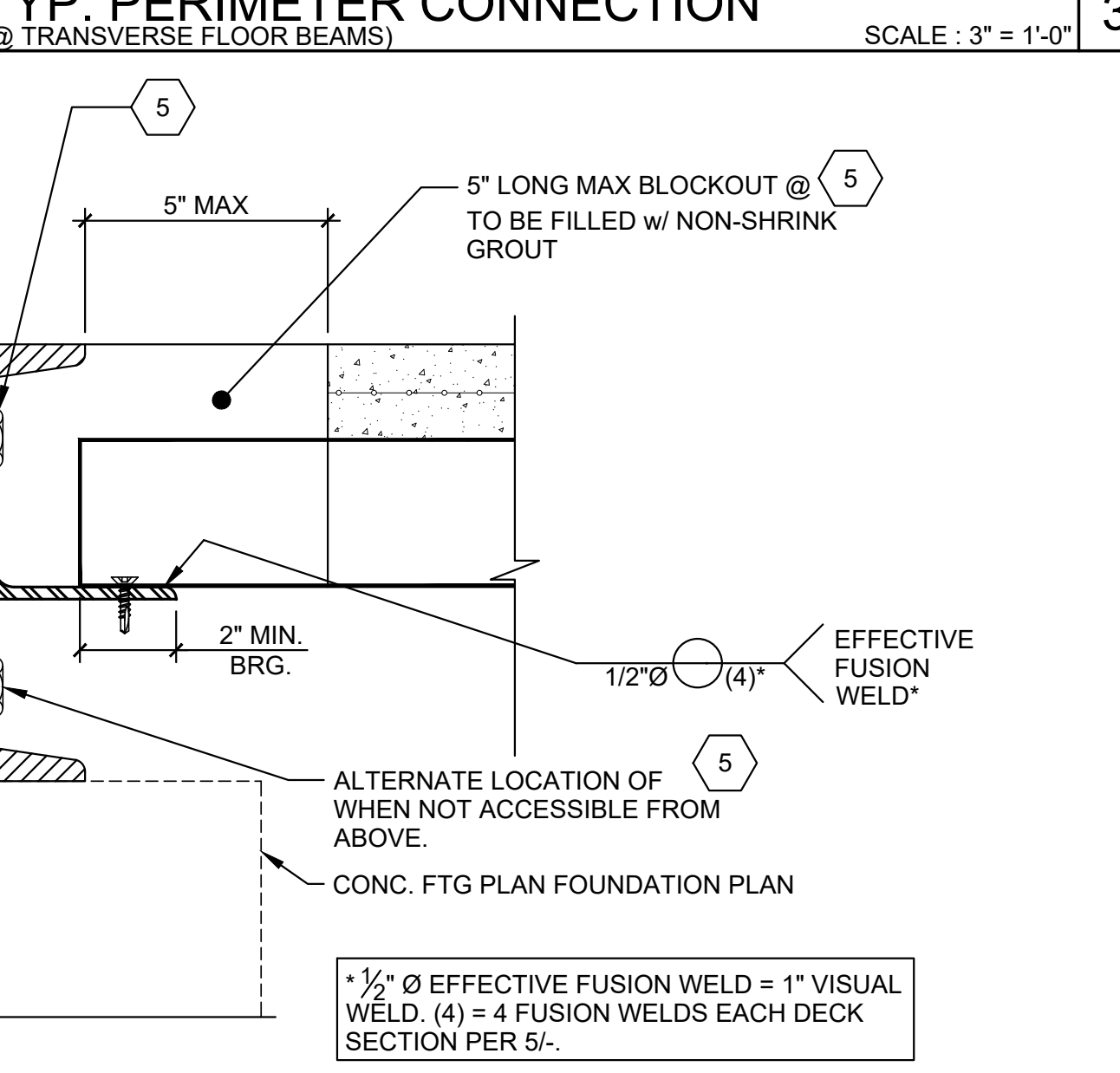
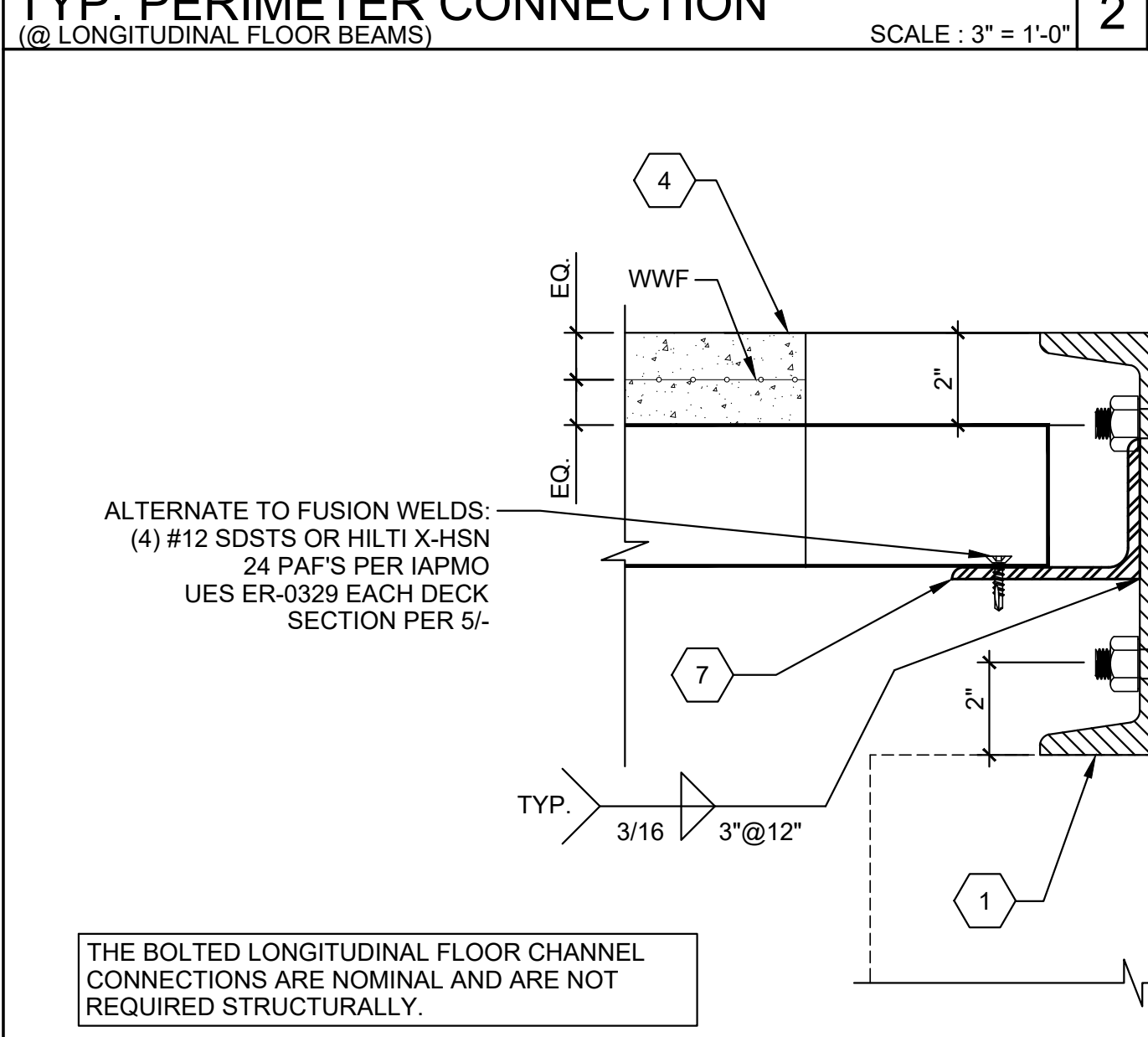
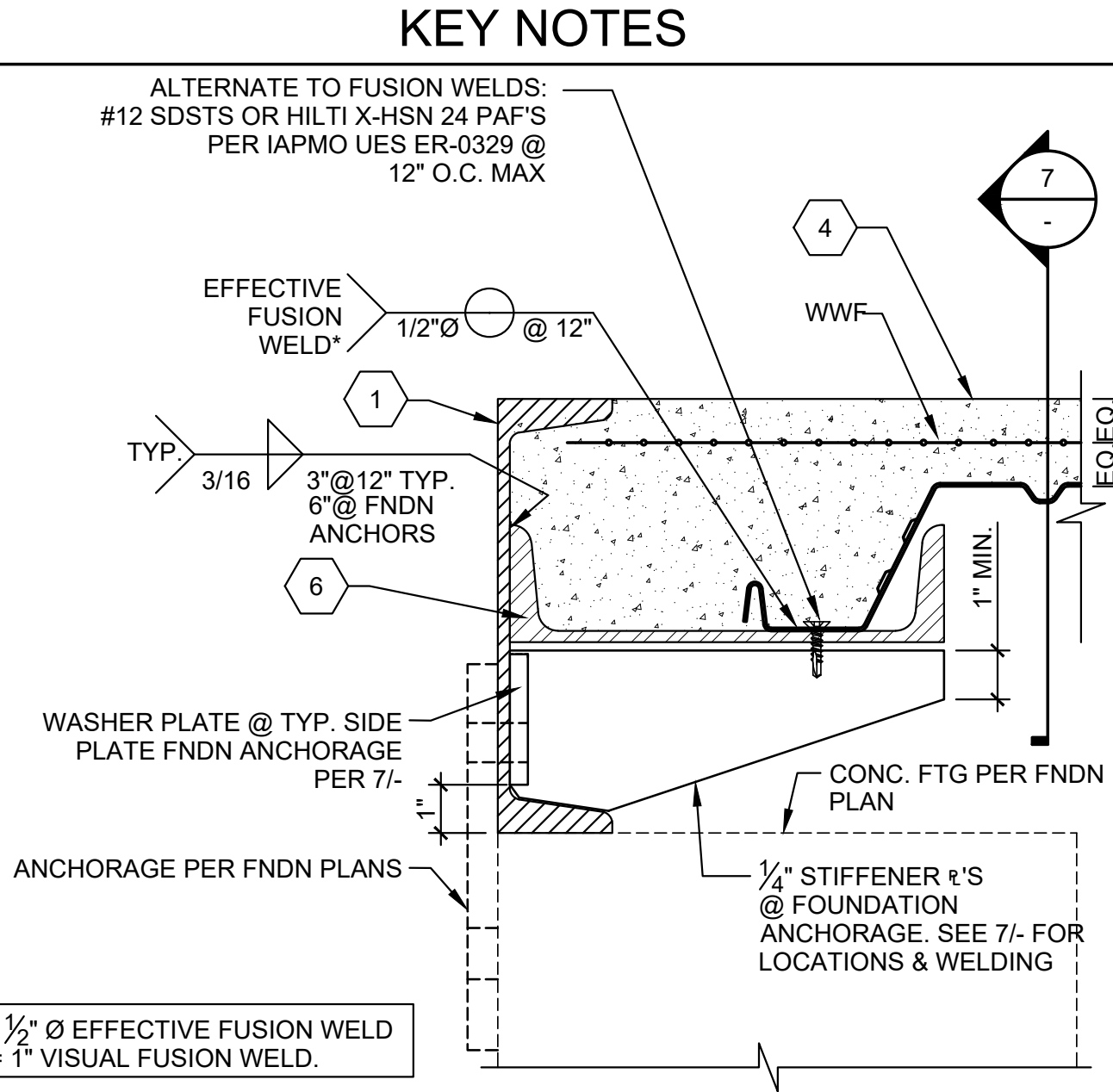
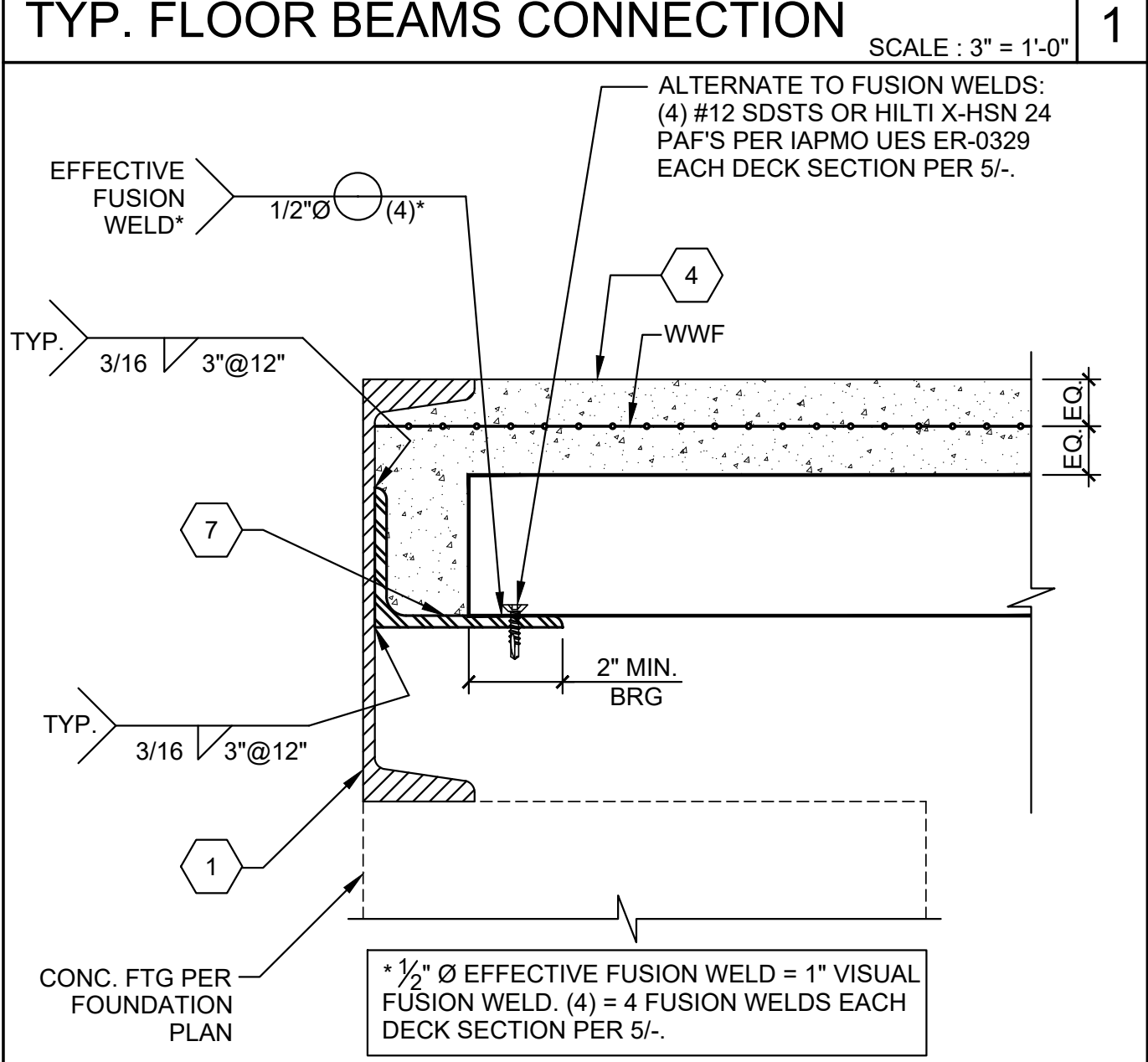
SHEET TITLE:
FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/ 3WxH DECK OPTION (150 PSF MAX FLOOR L.L.)

SHEET NUMBER:

S3.3



- FLOOR BEAM PER SHEET S5.0. USE SINGLE SIZE CHANNEL THROUGHOUT FLOOR SYSTEM.
- HSS COLUMN PER SHEET S5.0.
- NOT USED
- 2" MIN. LIGHTWEIGHT CONC. FILL w/ 6x6/W1.4xW1.4 WWF w/ 1'-0" LAP OVER ASC 18 GA. 3WxH GALVANIZED DECK (5" MAX TOTAL THICKNESS) SEE 5/- FOR DECK PROPERTIES AND ATTACHMENT PATTERN.
- 5/8" MB @ 10'-0" O.C. MAX. 6" MAX FROM INSIDE FACE OF COLUMNS PER DETAILS 1 & 4/-.
- BOLT HOLE THRU FLOOR CHANNELS = BOLT Ø + 1/16".
- C9x13.4" DECK SUPPORT CHANNEL PER DETAIL 3/-.
- C9 MAY HAVE 3" Ø MAX HOLES THRU WEB WITHOUT WEB REINFORCEMENT PER THE FOLLOWING:
1. HOLES MUST BE CENTERED ON WEB.
2. MULTIPLE HOLES MUST BE SPACED A MIN. OF 24" APART.
3. HOLES MUST BE 24" MIN. FROM INSIDE FACE OF COLUMNS.
- 4"x3"x1/4" LLH (MIN.) DECK SUPPORT ANGLE PER DETAIL 2 & 4/-.



FLOOR FRAMING PLAN (CONCRETE FLOOR w/ 3WxH-DECK OR 3WxH DECK OPTION) 150 PSF MAX FLOOR LIVE LOAD SCALE: 1/4" = 1'-0" A

TYP. MODULE LINE CONNECTION SCALE: 3" = 1'-0" 4

MINIMUM PROPERTIES

PLAN DESIGNATION	DECK TYPE	S _{gbot} IN ² /FT	I _g IN ⁴ /FT	AVAILABLE DIAPHRAGM SHEAR (LRFD)
	3"-18 GA ASC 3WxH GALV DECK (36" WIDE)	0.789	1.233	1565 PLF (LRFD) w/ 2" LWC TOPPING (5" TOTAL SLAB THICKNESS)

DECK PROFILE
(N.T.S.)
3" 12" 4 1/2" 36" 4 1/2"
○ = (4) 1/2" Ø EFFECTIVE FUSION WELDS* ALTERNATE (4) #12 SDSTS OR HILTI X-HSN 24 PAF'S. (SEE 3/- FOR ATTACHMENT AT PARALLEL SUPPORTS)
* 1/2" Ø EFFECTIVE FUSION WELD = 1" Ø VISUAL FUSION WELD

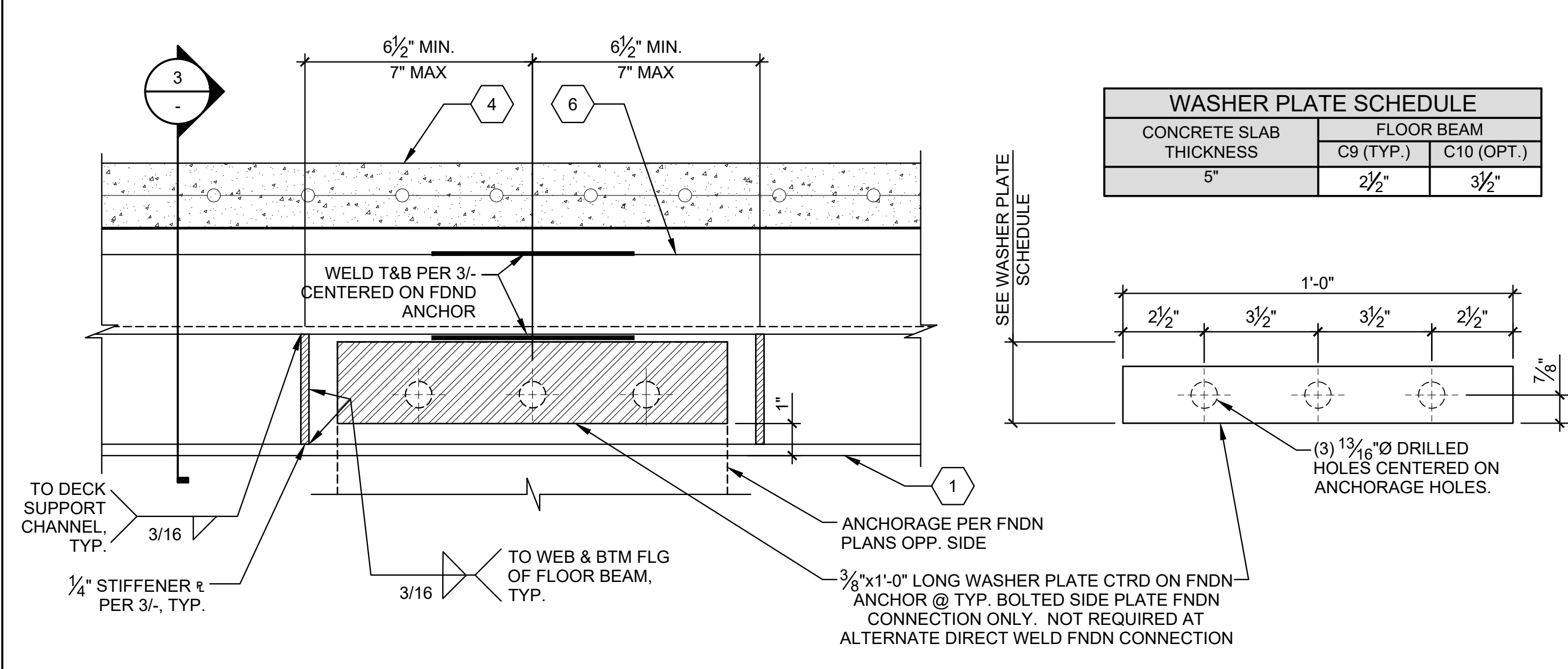
NOTES:
1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.0, S1.1, S1.2, & S1.3

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH ¹
24'x40'	2	0	23'-8 1/2"
36'x40'	3	1	35'-6 3/4"
48'x40'	4	2	47'-5"
60'x40'	5	3	59'-3 1/4"
72'x40'	6	4	71'-1 1/2"
84'x40'	7	5	82'-11 3/4"
96'x40'	8	6	94'-10"
108'x40'	9	7	106'-8 1/4"
120'x40'	10	8	118'-6 1/2"

3WxH MTL DECK PROPERTIES & PROFILE N.T.S.

NOT USED



BUILDING SIZE SCHEDULE

3WxH MTL DECK PROPERTIES & PROFILE N.T.S.

NOT USED

TYP. REINFORCED FRAMING @ FOUNDATION ANCHORAGE SCALE: 3" = 1'-0" 7

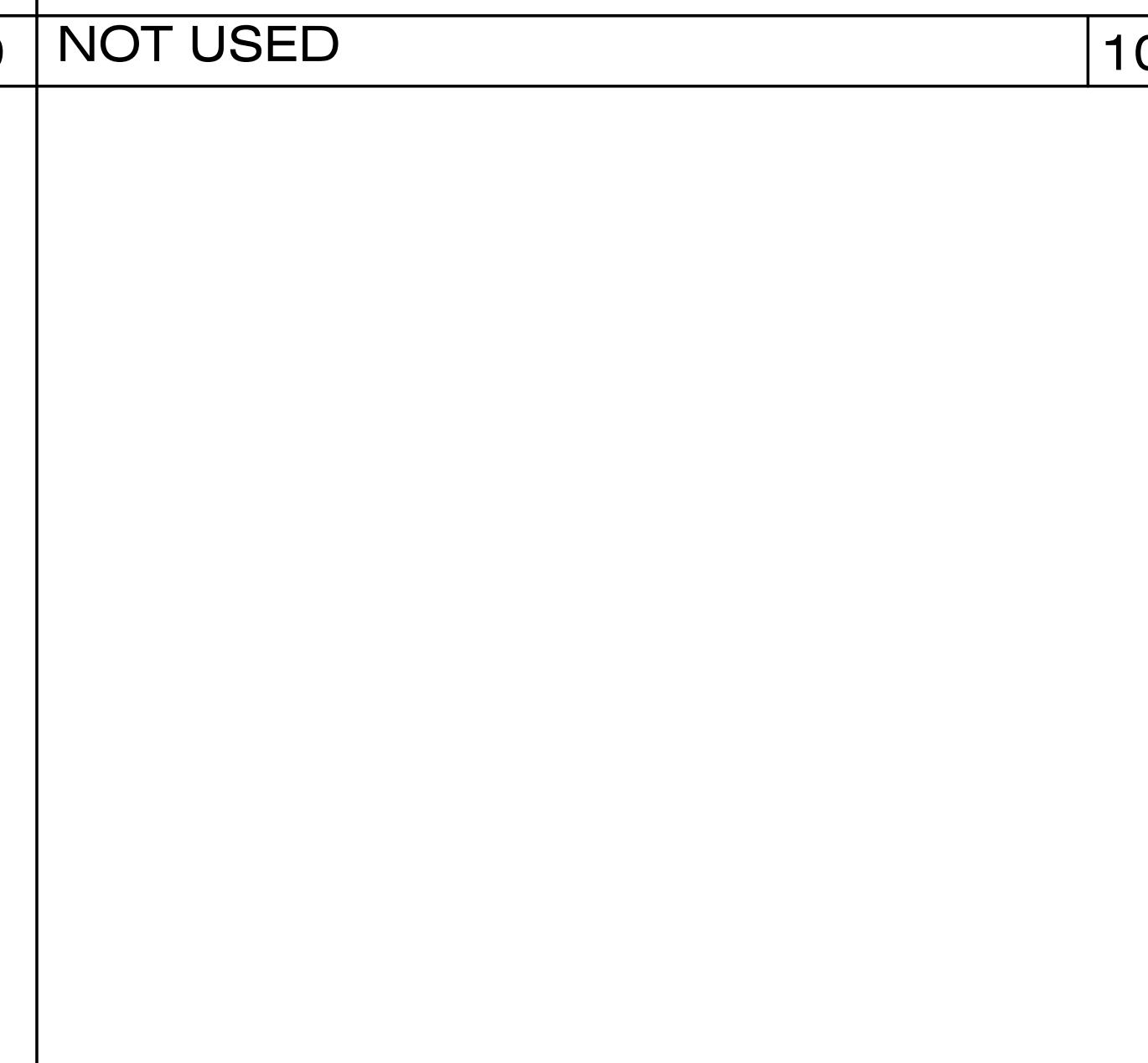
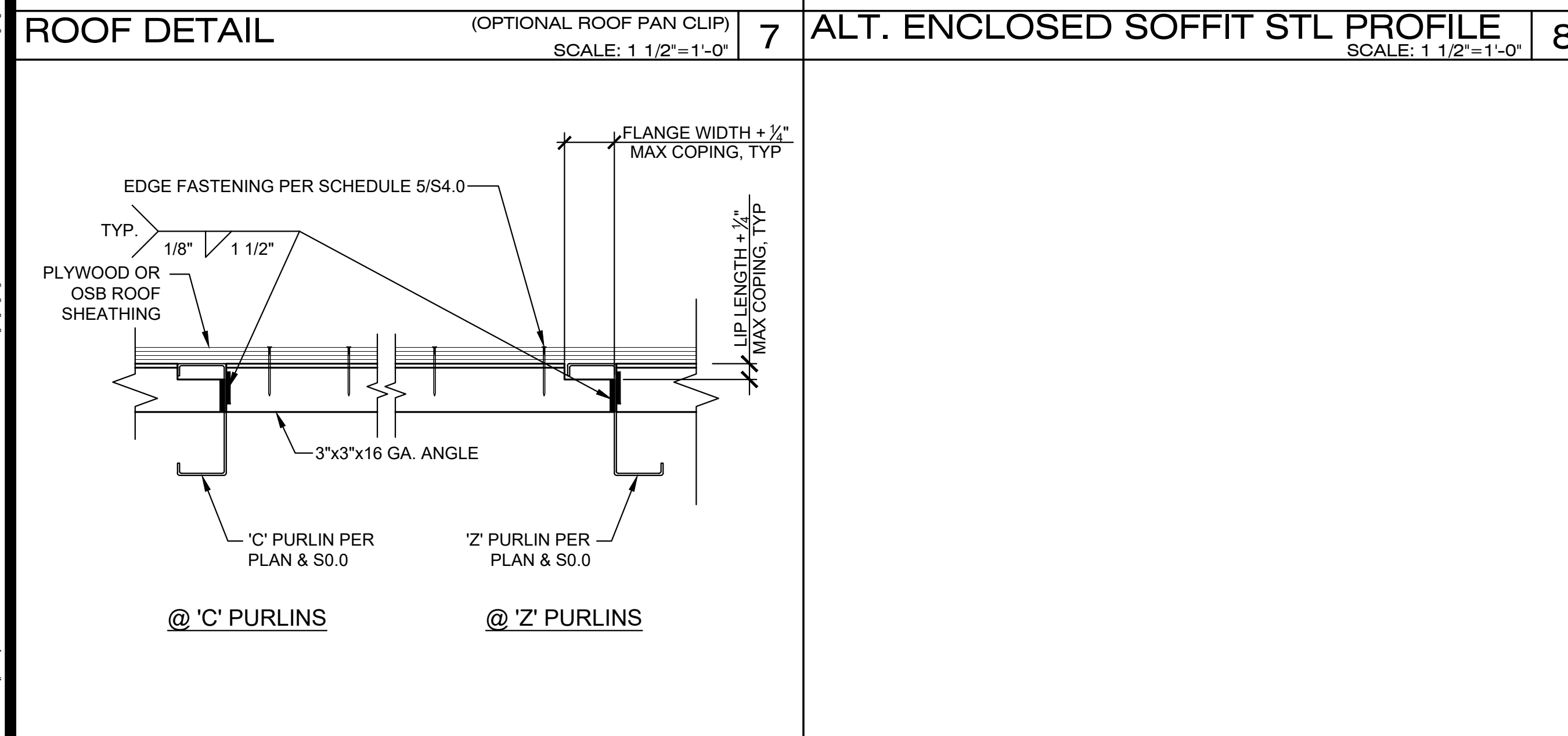
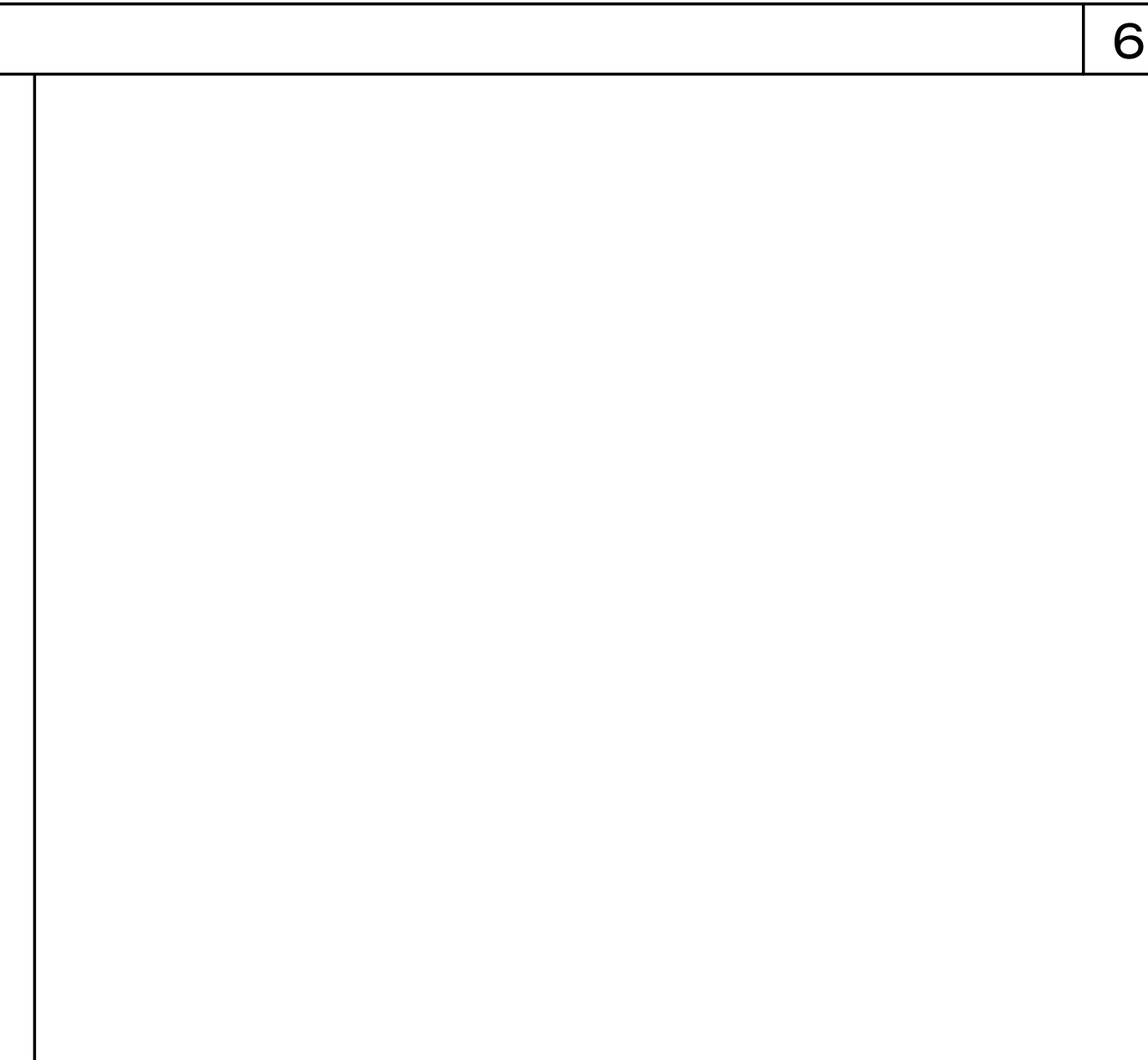
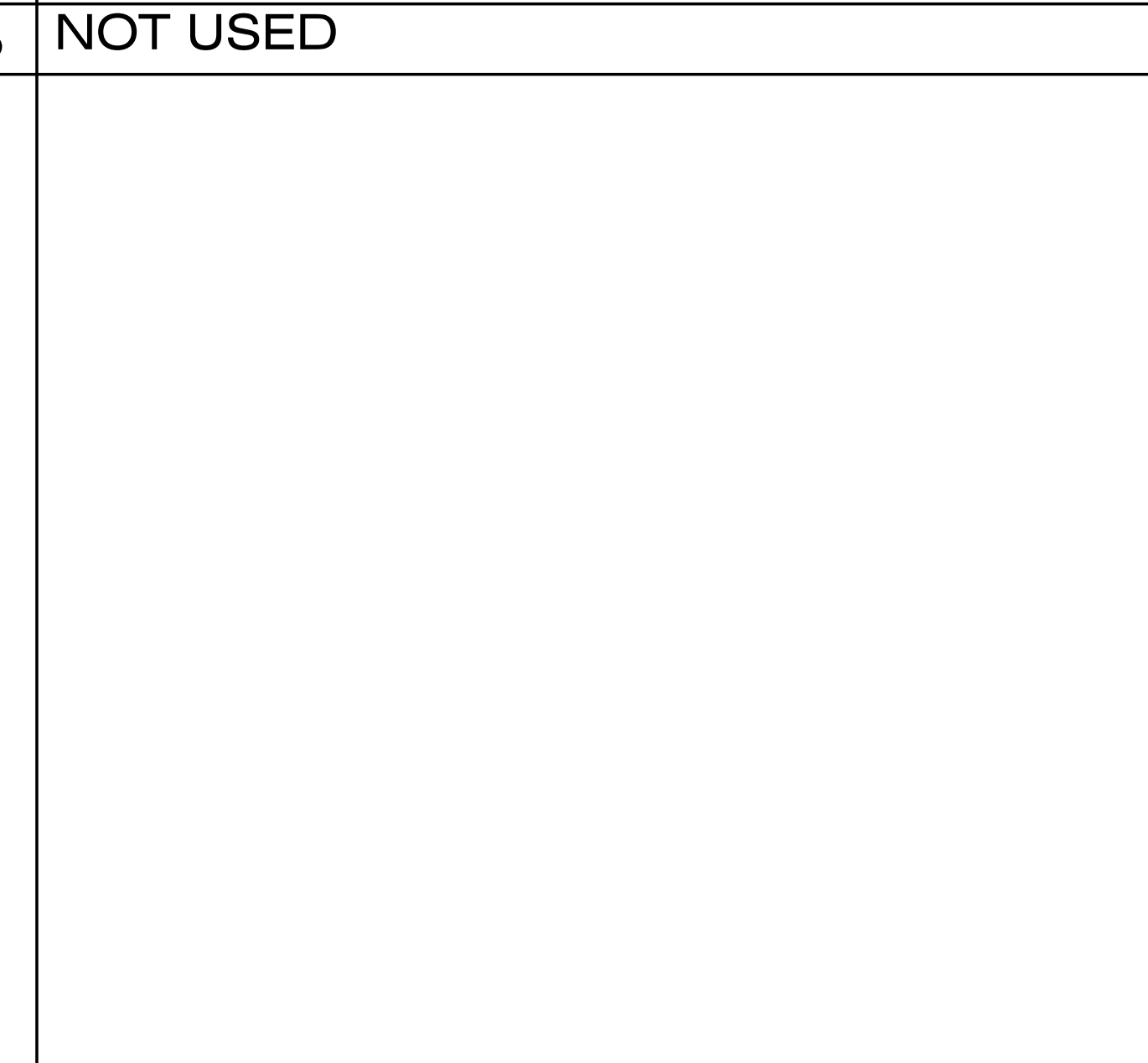
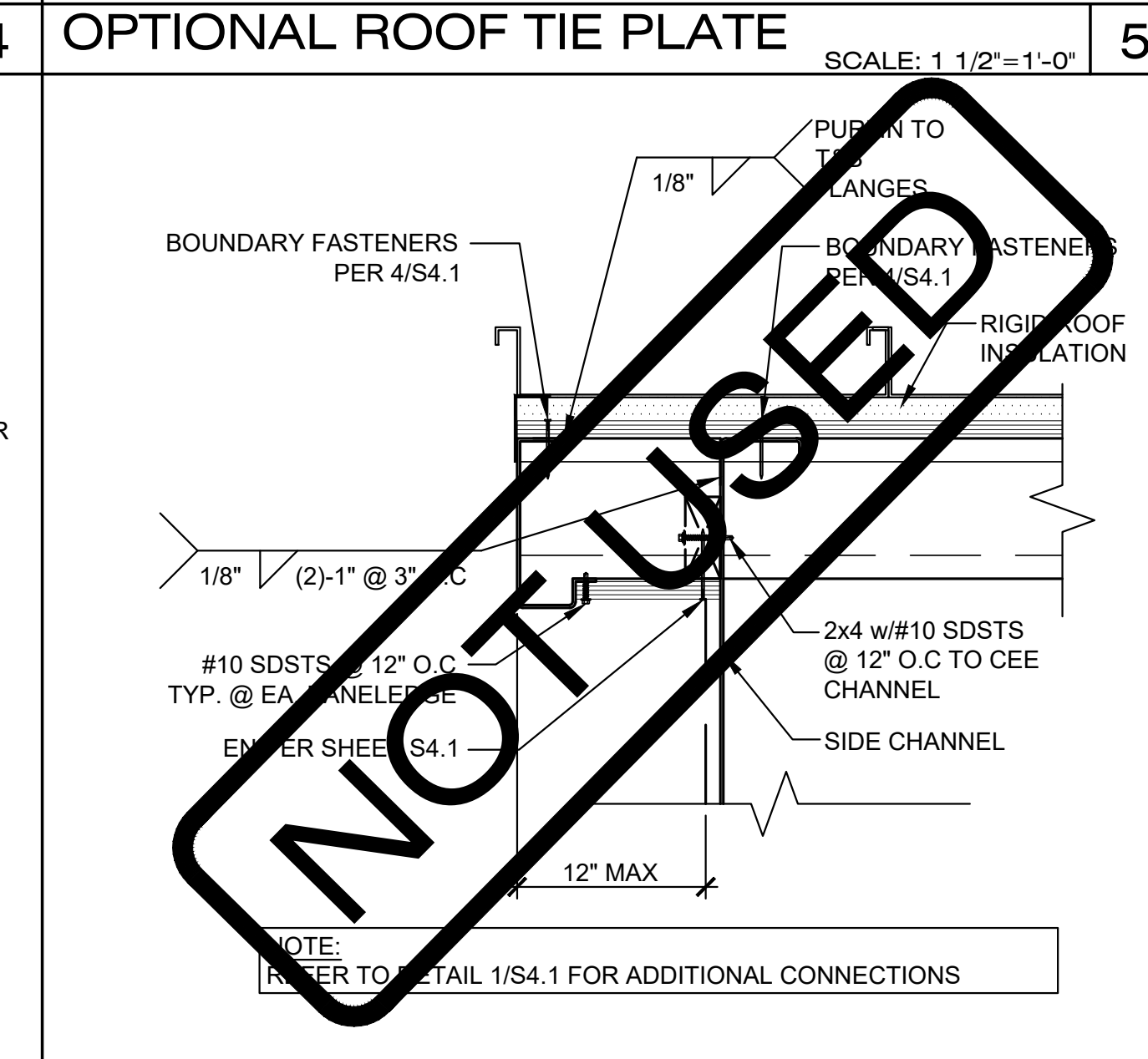
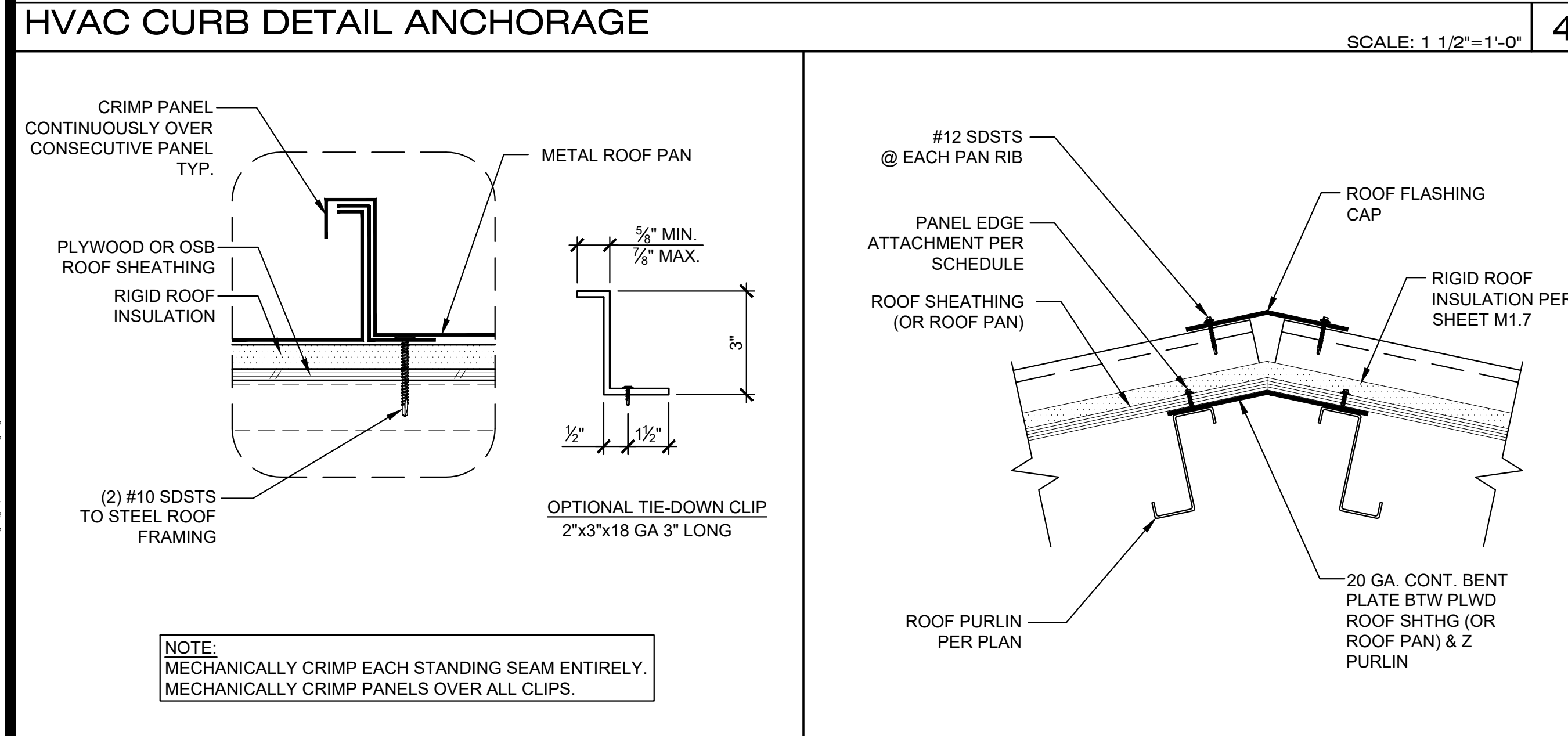
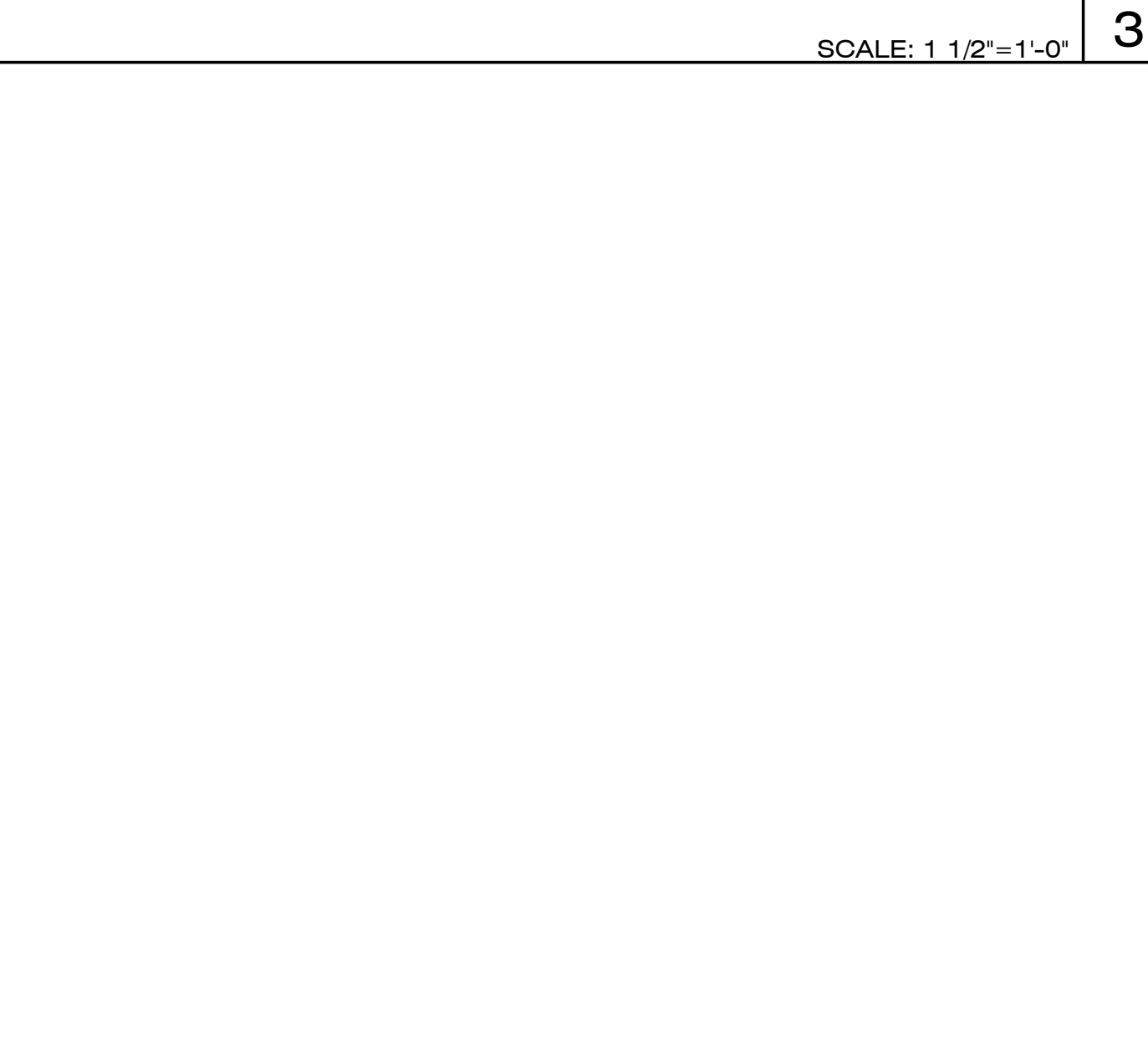
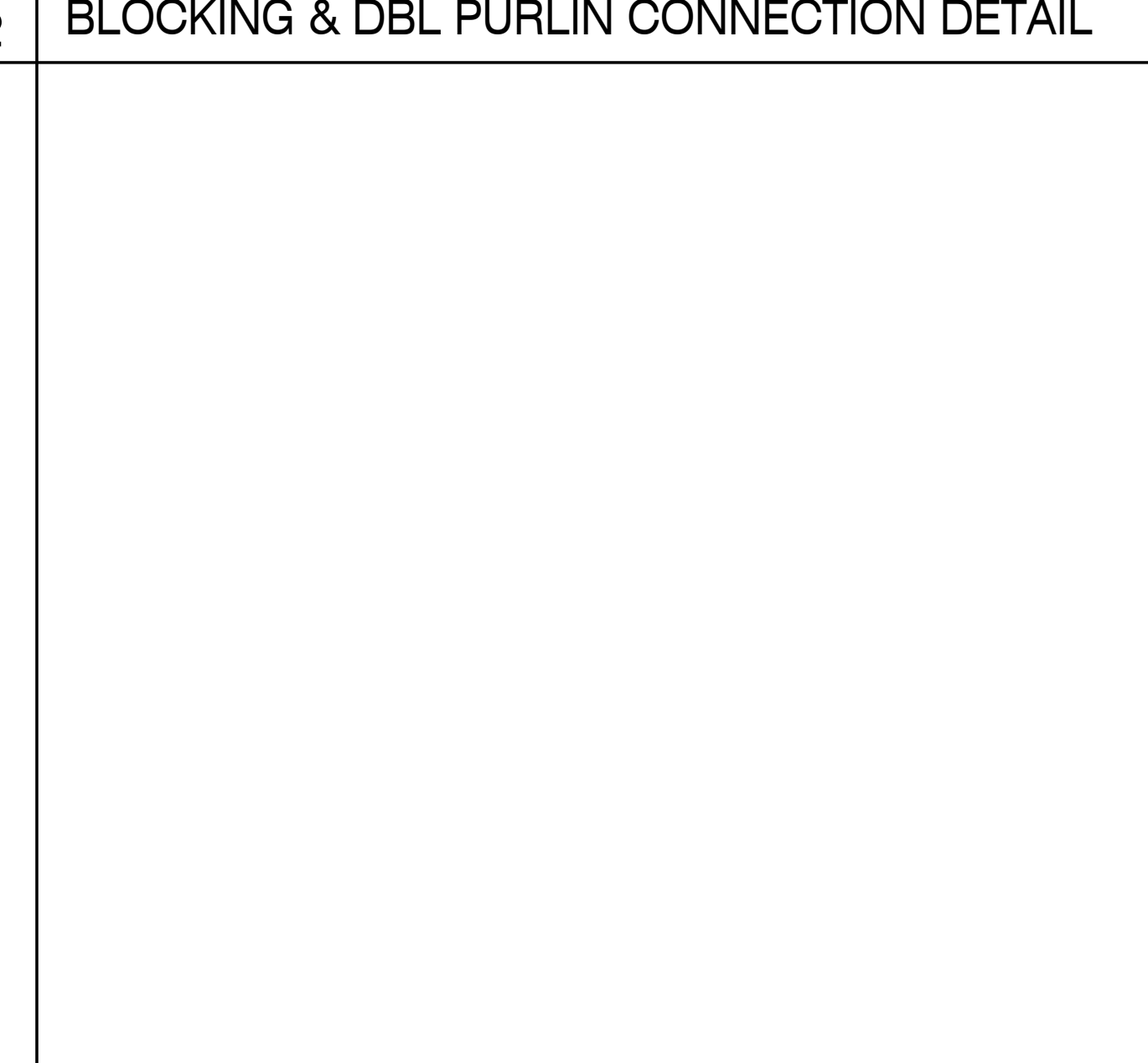
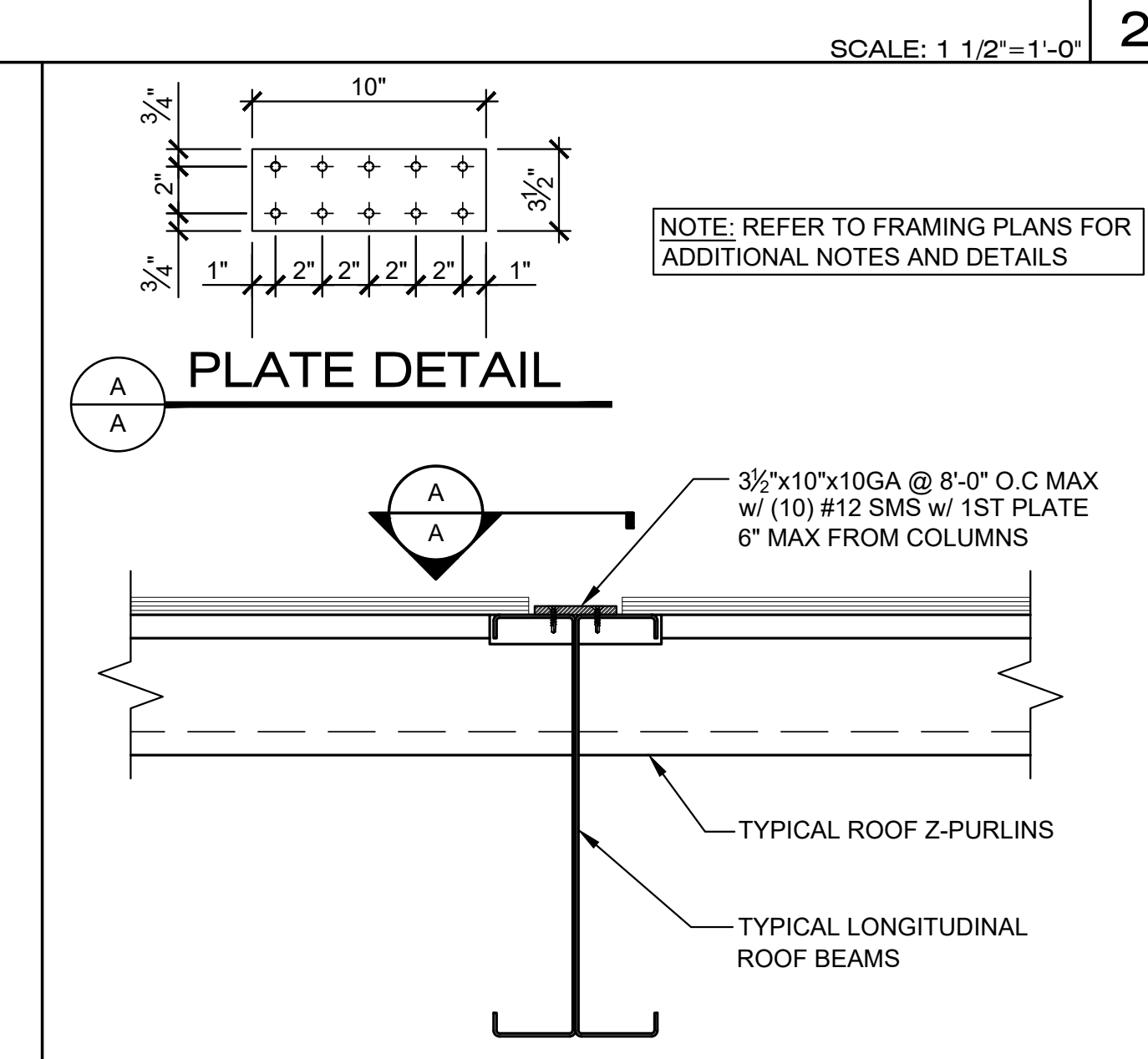
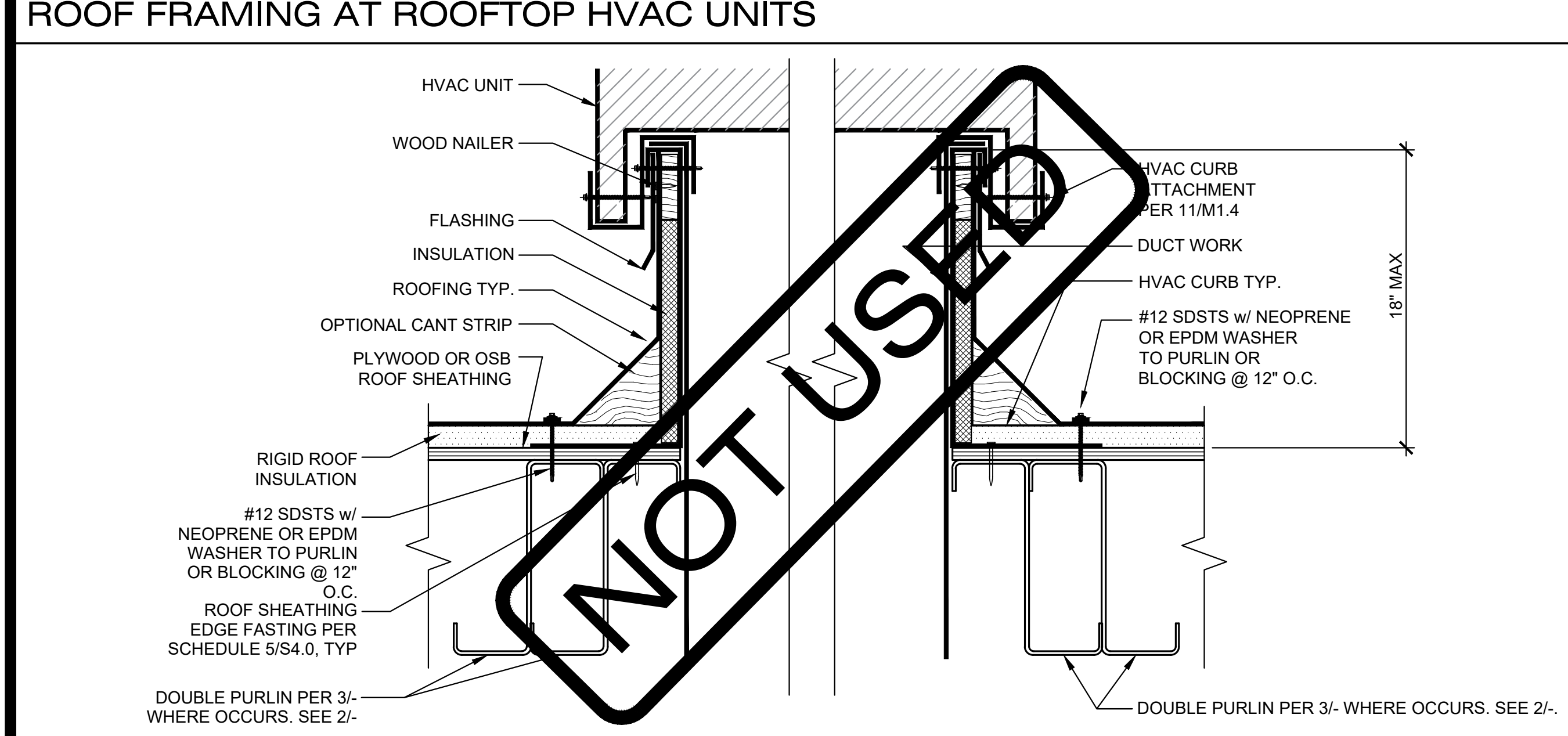
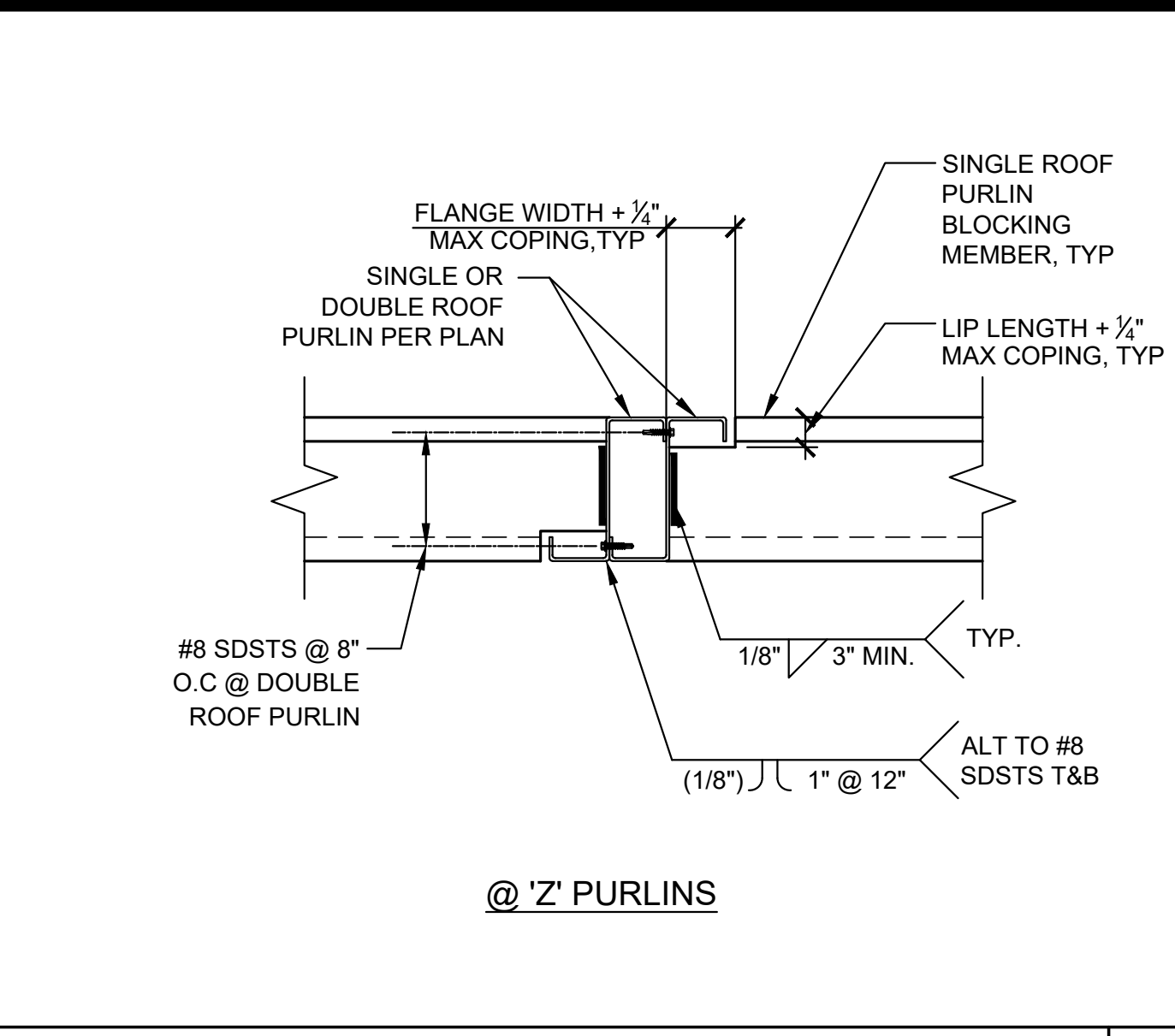
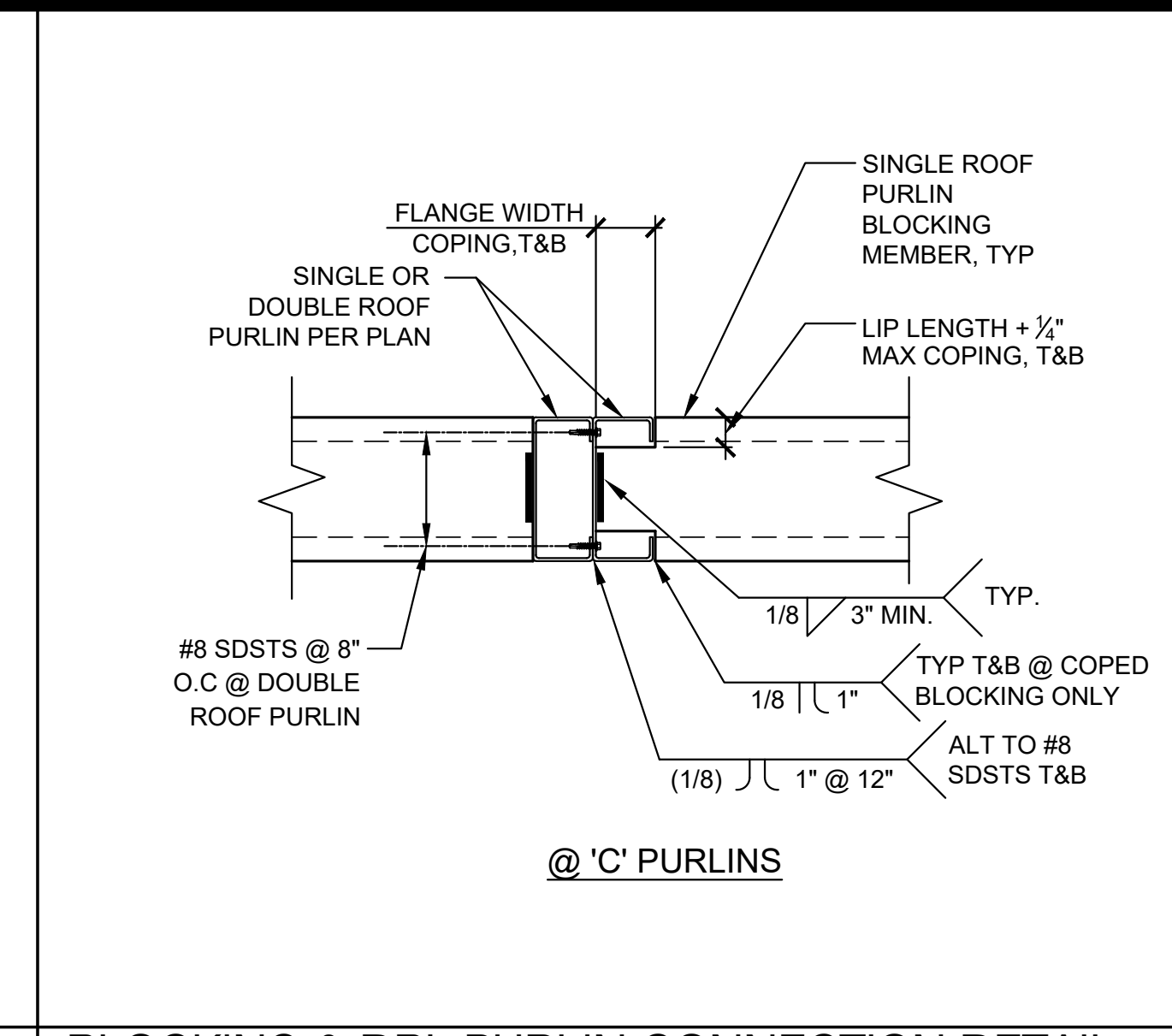
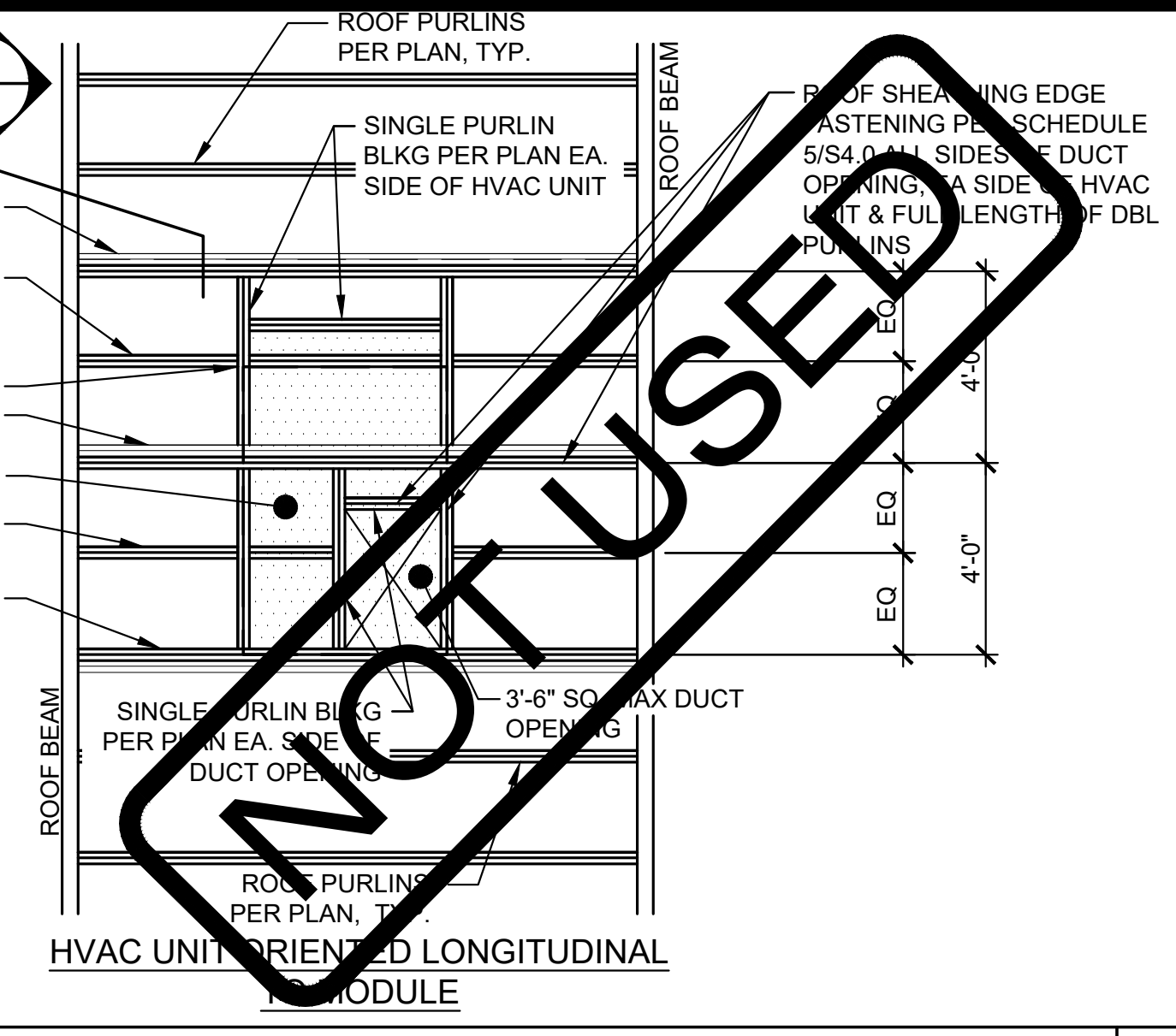
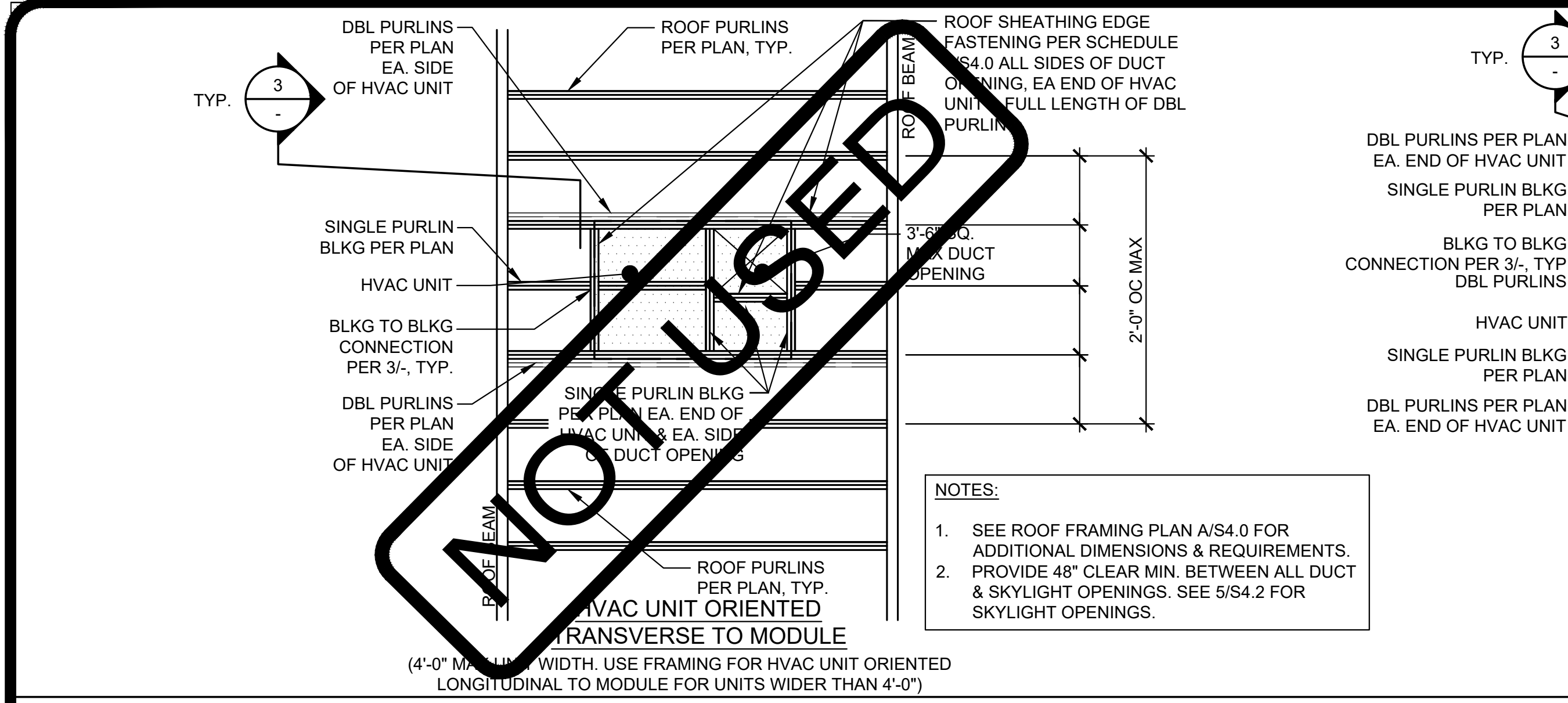
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24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
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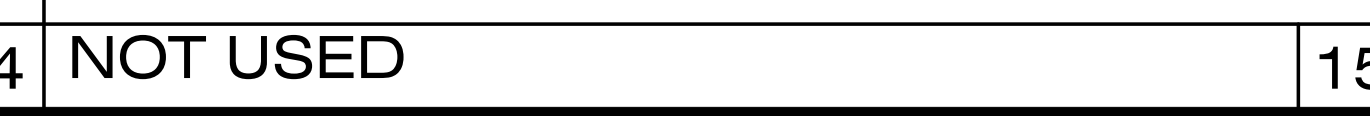
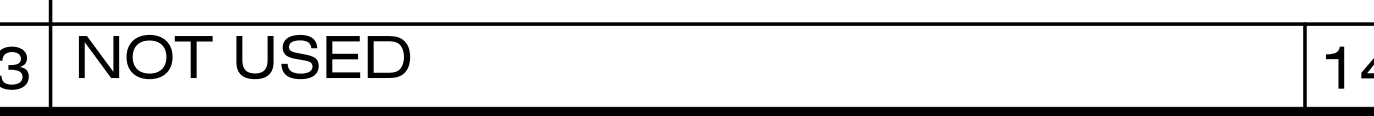
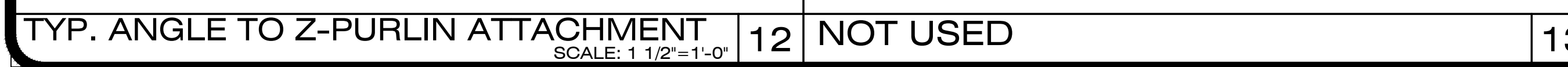
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1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.



GENERAL NOTES

REVISIONS
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 PROJECT NO: XXXX-20
 SHEET TITLE:
ROOF FRAMING DETAILS
 SHEET NUMBER:
S4.2

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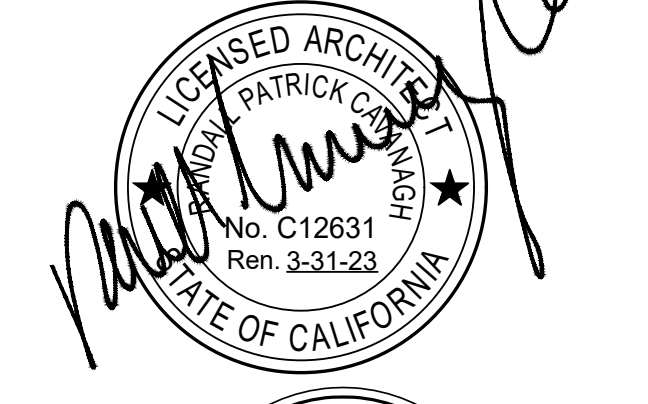
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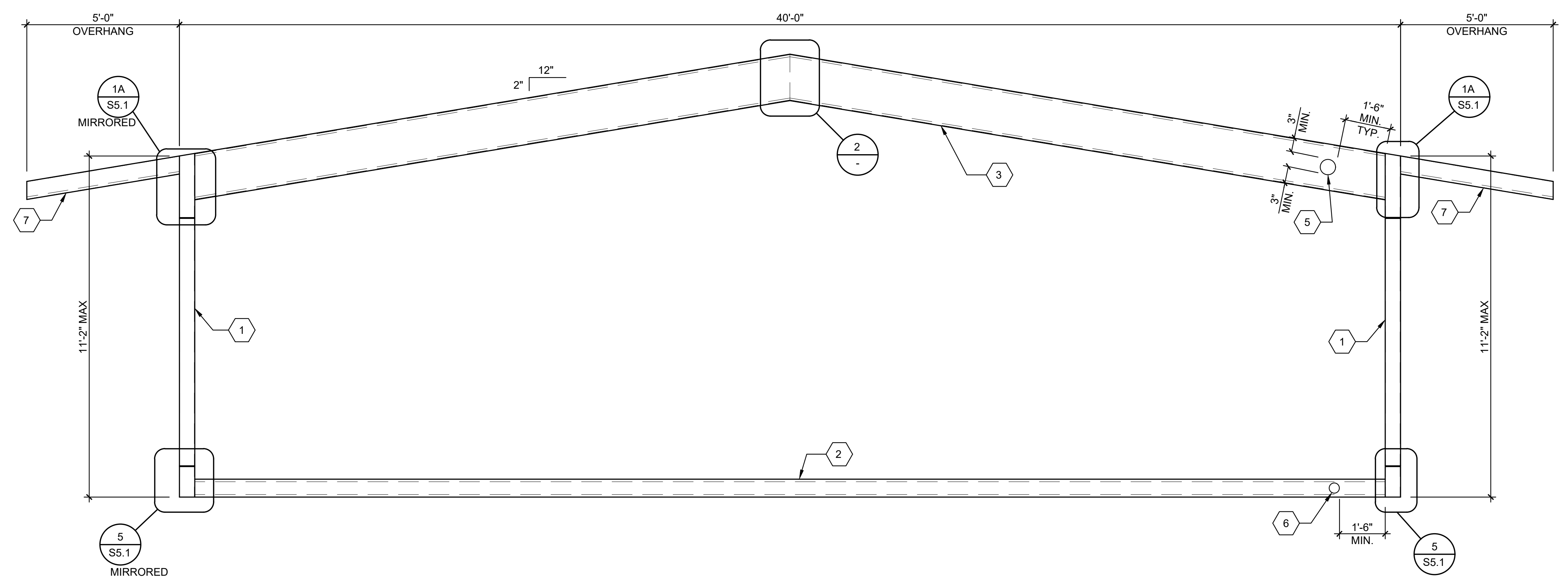
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 PROJECT NO: XXXX-20
 SHEET TITLE:

MOMENT FRAME
ELEVATIONS & DETAILS

SHEET NUMBER:
S5.0



- 1 HSS COLUMN - SEE SCHEDULE 3 & BELOW
 - 2 FLOOR BEAM - SEE SCHEDULE 3 & BELOW
 - 3 LONGITUDINAL ROOF BEAM PER 18/S0.0 - GAUGE PER SCHEDULE 3 BELOW.
 - 4 TRANSVERSE ROOF BEAM PER 18/S0.0 - GAUGE PER 3 BELOW.
 - 5 6"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C., HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/S5.1
- NOTE: IF HOLE IS 3" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM
- 6 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION - SEE 6/S5.1.
- NOTE: IF HOLE IS 2" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.
- 7 SOFFIT OUTRIGGER BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1A OR 1B/S5.1 & S0.0 FOR PROPERTIES.
 - 8 SOFFIT BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1A/S5.1 & S0.0 FOR PROPERTIES
 - 9 LONGITUDINAL BEAM OPENING: REFER TO DETAIL 3/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)
 - 10 TRANSVERSE BEAM OPENING: REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)

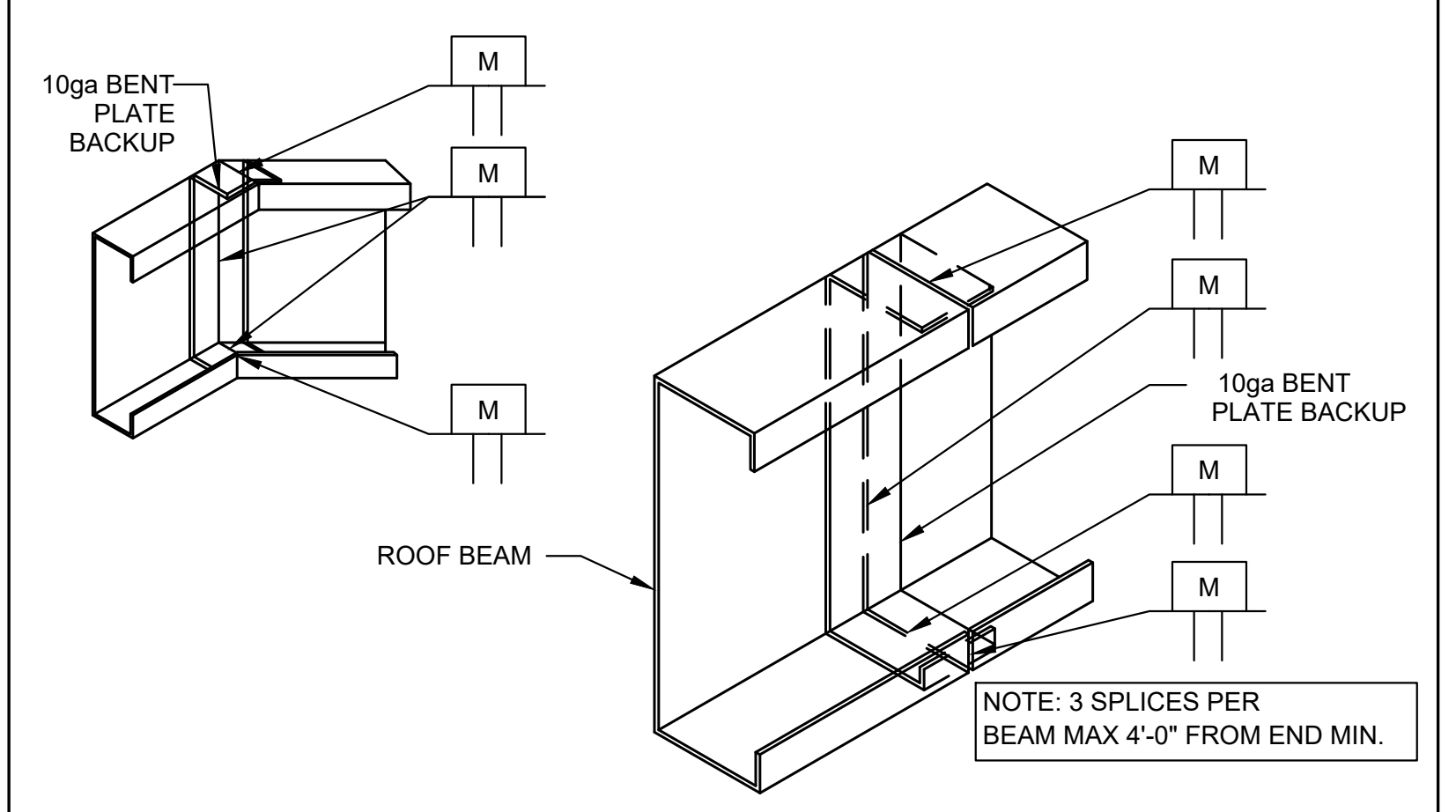
TYPICAL LONGITUDINAL FRAME ELEVATION

SCALE: 3/8"=1'-0"

1

KEY NOTES

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15, D1.3-08 & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL ALL DETAILS THIS SHEET. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.



TYPICAL BEAM SLICE

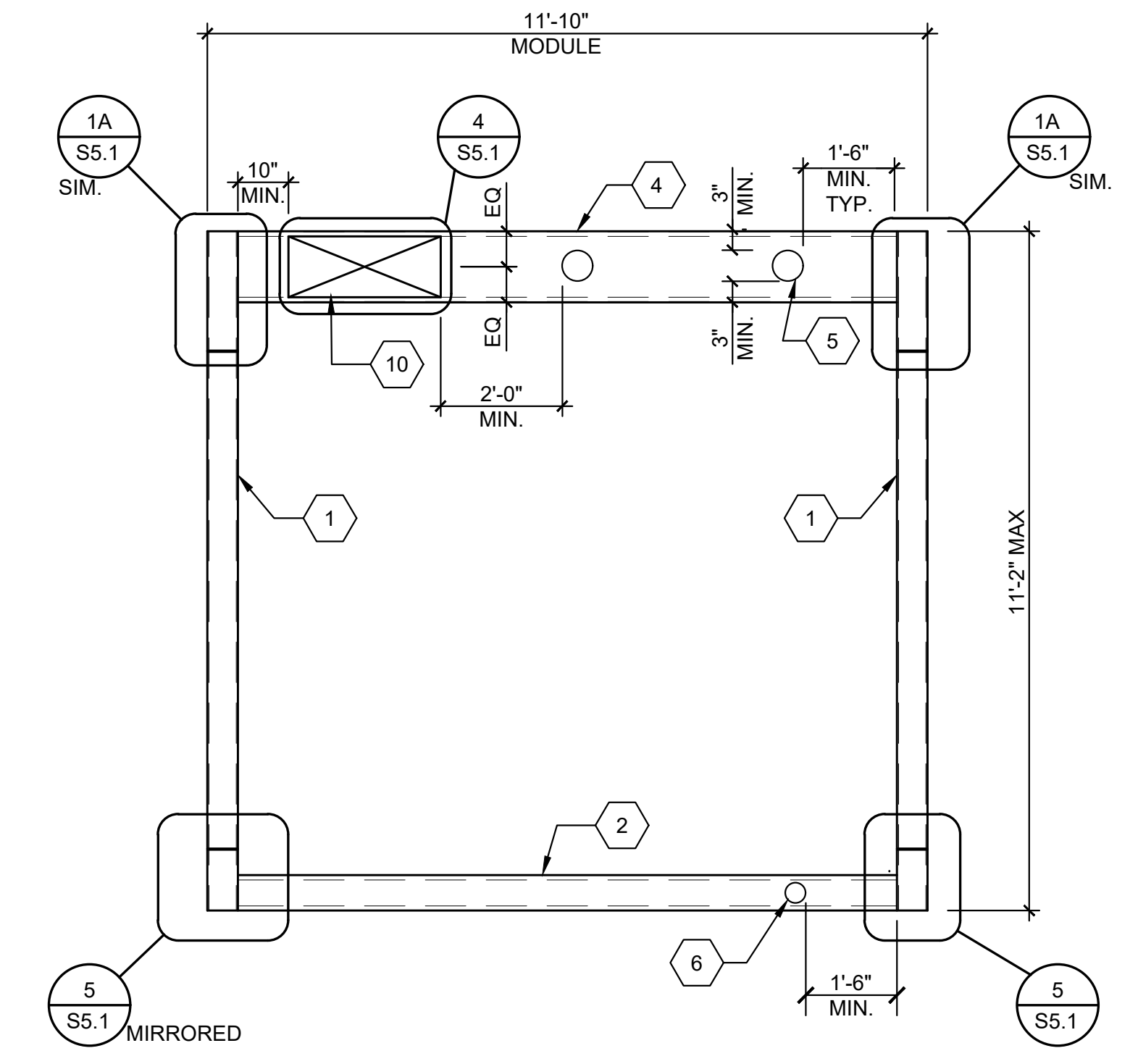
SCALE: 1 1/2"=1'-0"

2

FRAME MEMBER SCHEDULE

FLOOR BEAMS		ALT. FLOOR BEAMS		COLUMNS	LONGITUDINAL ROOF BEAMS	TRANSVERSE ROOF BEAMS
PLYWOOD FLOOR	CONCRETE FLOOR	PLYWOOD FLOOR	CONCRETE FLOOR			
C7x9.8 (36 KSI)	C9x13.4 (50 KSI)	C9x13.4 (36 KSI) OPTIONAL: C10x15.3	C10x15.3	HSS 6x6x4 (ASTM A1085) Fy = 50Ksi	10 GA.	10 GA.

NOTE: SEE ALL SECTION PROPERTIES ON SHEET S0.0

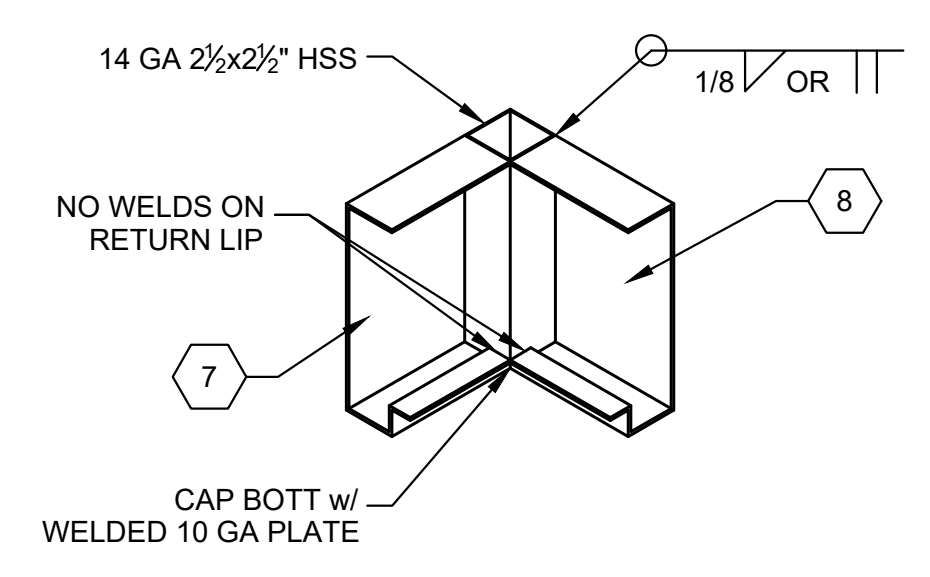


TYPICAL TRANSVERSE FRAME ELEVATION

SCALE: 3/8"=1'-0"

4

OVERHANG CORNER DETAIL



SCALE: 1 1/2"=1'-0"

5

NOT USED

6

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AMS
 American Modular Systems
 787 Spreckels Ave., Manteca, CA 95336
 Phone (209) 825-1921 Fax (209) 825-7018
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PRE-SET NAME
 24'x40' THRU 120'x40'
 HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
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LICENSED ARCHITECT
 PATRICK J. HONAN
 No. C12631
 Ren. 3-31-23
 STATE OF CALIFORNIA

LICENSED PROFESSIONAL ENGINEER
 MANNING P. FARMER
 No. 53388
 STRUCTURAL
 STATE OF CALIFORNIA

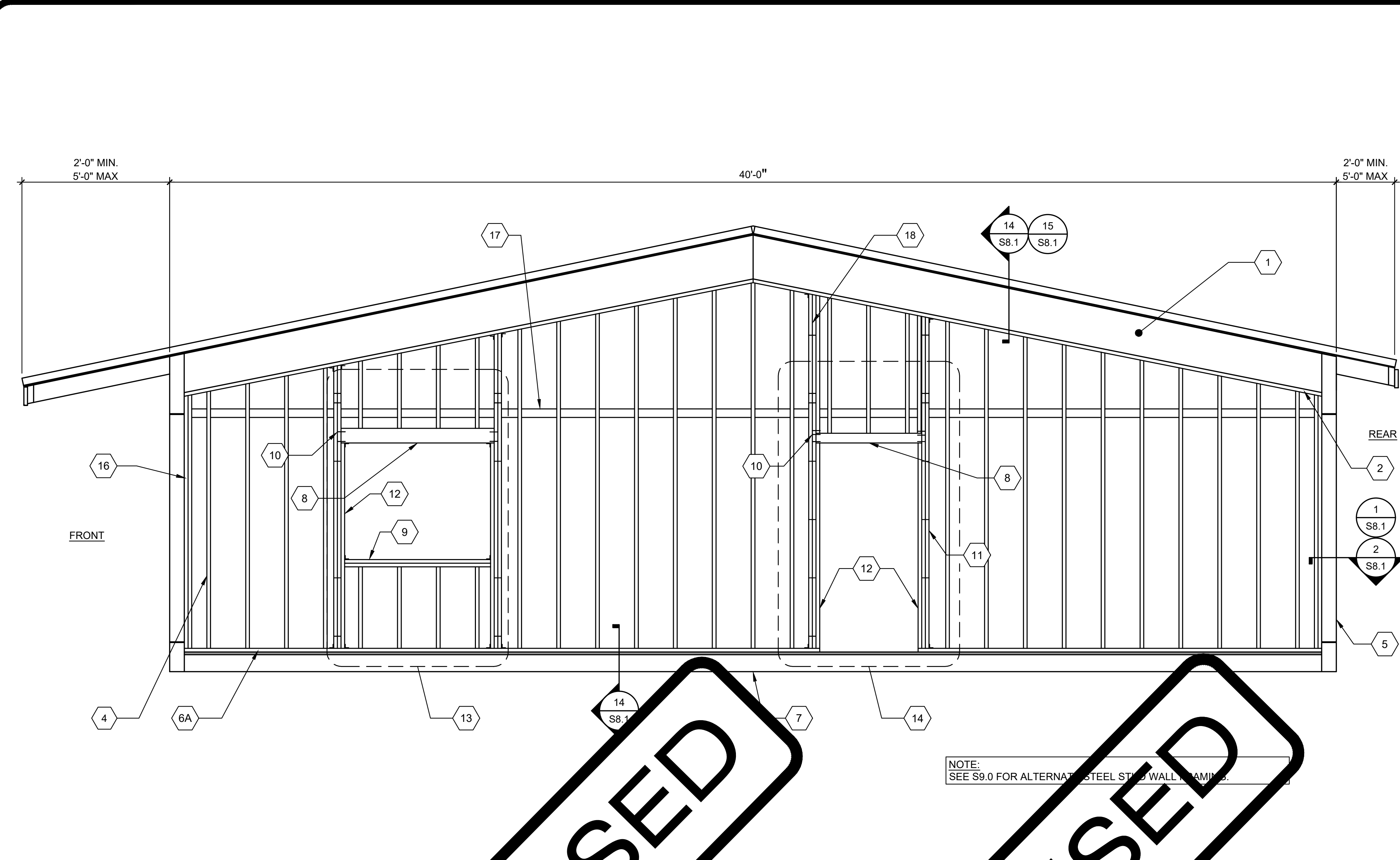
07/07/2021

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REVISIONS

DRAWN BY: AS NOTED
 SCALE: AS NOTED
 DATE: MM/DD/YYYY
 PROJECT NO: XXXX-20
 SHEET TITLE: WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
 SHEET NUMBER:

S8.0



- 1 ROOF BEAM PER SHEET S5.0
- 2 2x6 MIN. TOP PLATE - NO SPLICE
- 3 2x6 MIN. TOP PLATE
- 4 2x6 MIN. STUDS SPACED PER SCHEDULE W/(3) 0.131"Ø x3" END NAILS OR (4) 0.131"Ø x3" TOE NAILS T&B TO PLATES TYP.
- 5 HSS COLUMN PER SHEET S5.0
- 6 2x6 MIN. BOTTOM PLATE - NO SPLICE (P.T. AT CONCRETE FLOORS)
- 6A 2x6 MIN. BOTTOM PLATE (P.T. AT CONCRETE FLOORS)
- 7 PERIMETER FLOOR BEAM PER SHEET S5.0
- 8 HEADER PER OPENING SCHEDULES
- 9 WINDOW SILL PER OPENING SCHEDULE
- 10 END NAILS THROUGH KING STUD TO HEADER SILL PER OPENING SCHEDULE
- 11 KING STUDS PER OPENING SCHEDULE
- 12 2x6 MIN. TRIMMER
- 13 OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
- 14 OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 5/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
- 15 HVAC OPENING @ EXTERIOR WALL (600#MAX WT.) SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT
- 16 2x DOUBLE NAILER
- 17 2x BLOCKING
- 18 KING STUD PER OPENING SCHEDULE INTERNAL PER OPENING SCHEDULE

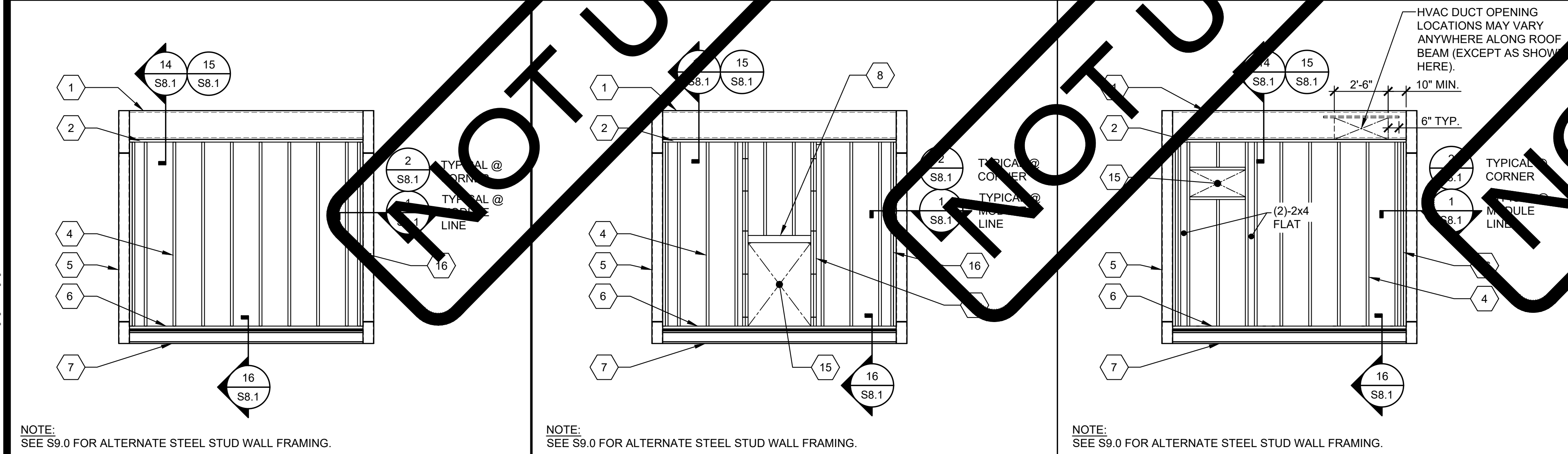
NOTE: SEE CARPENTRY NOTES SHEET N1.0 SECTION 6 FOR WOOD SPECIES & GRADE

KEY NOTES

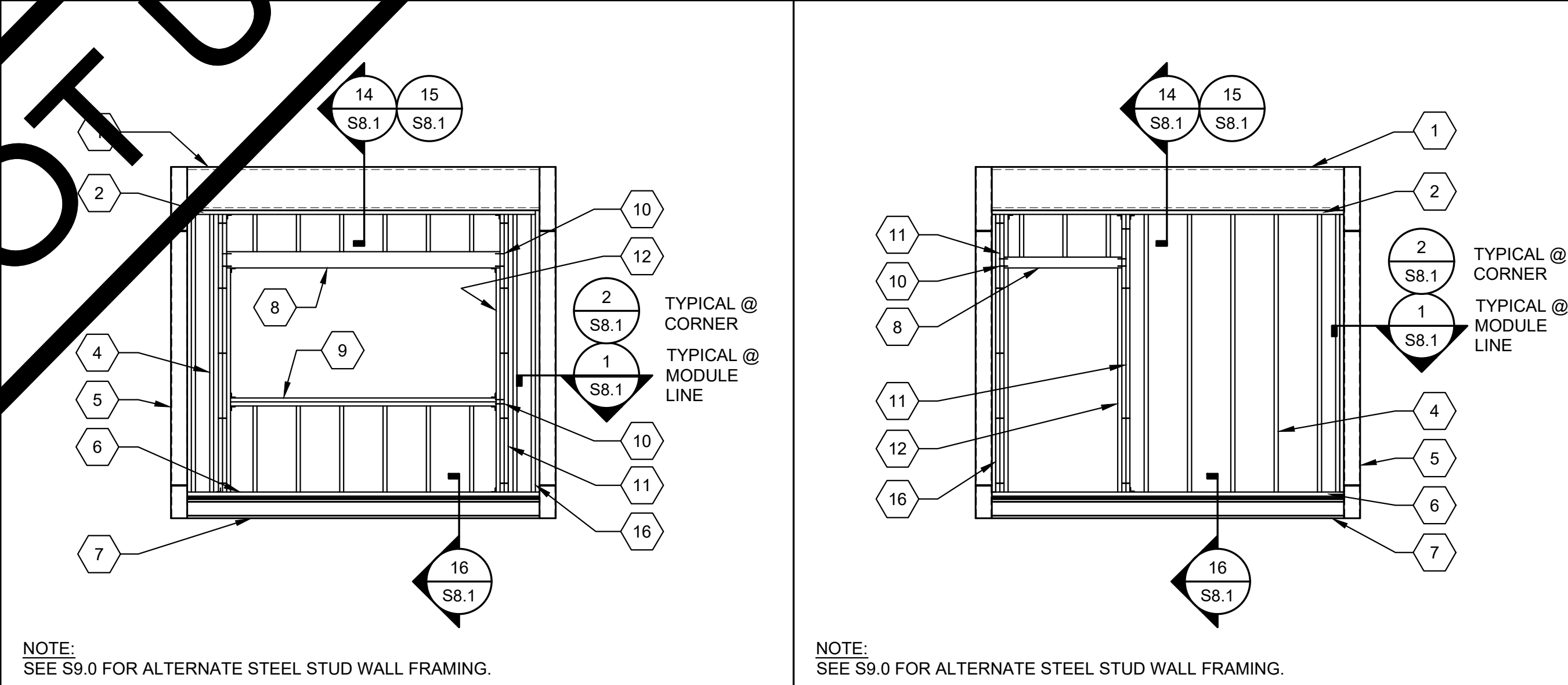
EXTERIOR WALL SCHEDULE			
FINISH TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING
3/4" HARDI-BOARD w/ SYNTHETIC STUCCO OR 3/4" HARDI-LAP SIDING	WALL FINISH PER A5.5 & A5.7	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
1/2" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32 PER PANELS EXPOSURE 1 w/ 7/8" STUCCO	WALL FINISH PER A5.2 & A5.3, NAILING PER BLDG SECTIONS 1	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX

- FOOTNOTES
- ALL NAILS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
 - TYPICAL PLYWOOD NAILING WHERE OCCURS: 0.131"Ø x2 1/4" GALV. NAILS @ 6" O.C. E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED).

TYPICAL SIDE WALL FRAMING



EXTERIOR WALL FINISH/WALL STUD SCHEDULE



TYP. END WALL FRAMING w/ NO OPENINGS SCALE: 1/4"=1'-0"

TYP. END WALL FRAMING w/ INDOOR HVAC UNIT (OPTIONAL) SCALE: 1/4"=1'-0"

TYP. END WALL FRAMING w/ WALL HUNG HVAC UNIT (OPTIONAL) SCALE: 1/4"=1'-0"

TYPICAL END WALL FRAMING WINDOW SCALE: 1/4"=1'-0"

TYPICAL END WALL FRAMING w/ DOOR SCALE: 1/4"=1'-0"

DOOR/WINDOW OPENING AT TYPICAL WALL (NO STUCCO)						
OPENING SIZE	HEADER	WINDOW SILL ² (AS APPLICABLE)	KING STUDS ¹	KING STUD INTERNAL SPACING	HEADER TO KING STUD NAILING	
					# END NAILS 1 ST KING STUD TO HEADER ³ (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Øx3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	6	3
>6'-0" TO 8'-0"	6x6	(1) 2x6	(2) 2x6		5	3
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6		4	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6		4	2

DOOR/WINDOW OPENING AT STUCCO WALL								
OPENING SIZE	HEADER	WINDOW SILL ² (AS APPLICABLE)	KING STUDS ¹	KING STUD INTERNAL SPACING	HEADER TO KING STUD NAILING		WINDOW SILL TO KING STUD NAILING	
					# END NAILS 1 ST KING STUD TO HEADER ³ (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Øx3" NAILS)	# END NAILS 1 ST KING STUD TO WINDOW SILL ² (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ WINDOW SILL (0.131"Øx3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	6	3	4	2
>6'-0" TO 8'-0"	6x6	(2) 2x6	(3) 2x6		5	3	4	2
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2

- FOOTNOTES
- PROVIDE (2) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS GREATER THAN 4'-0". PROVIDE (1) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS 4'-0" OR LESS.
 - WHEN MORE THAN A SINGLE SILL PLATE IS REQUIRED, INTERNAL w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED.
 - TWO (2) END NAILS PER LAMINATION MINIMUM.

OPENING SCHEDULES

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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
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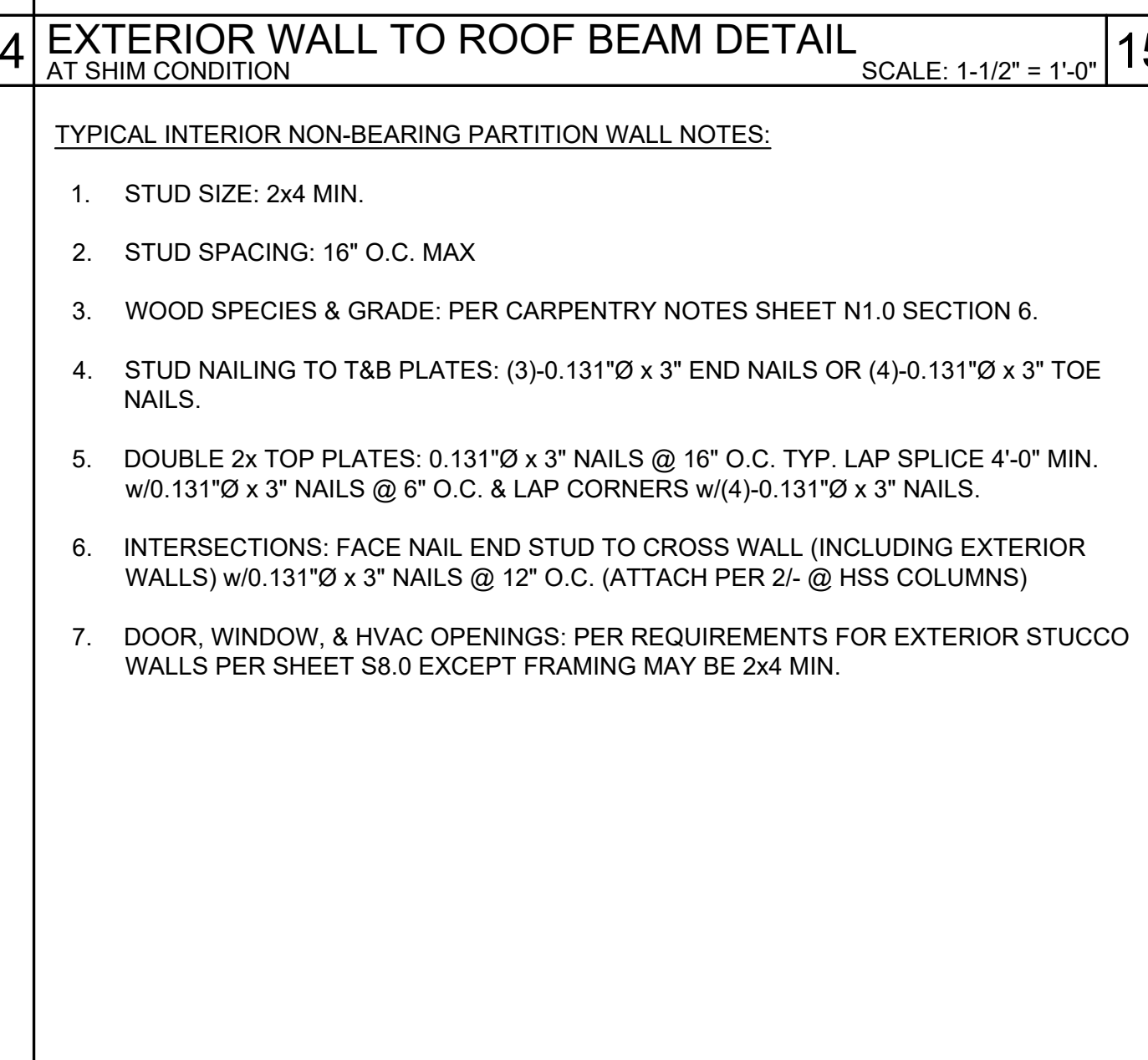
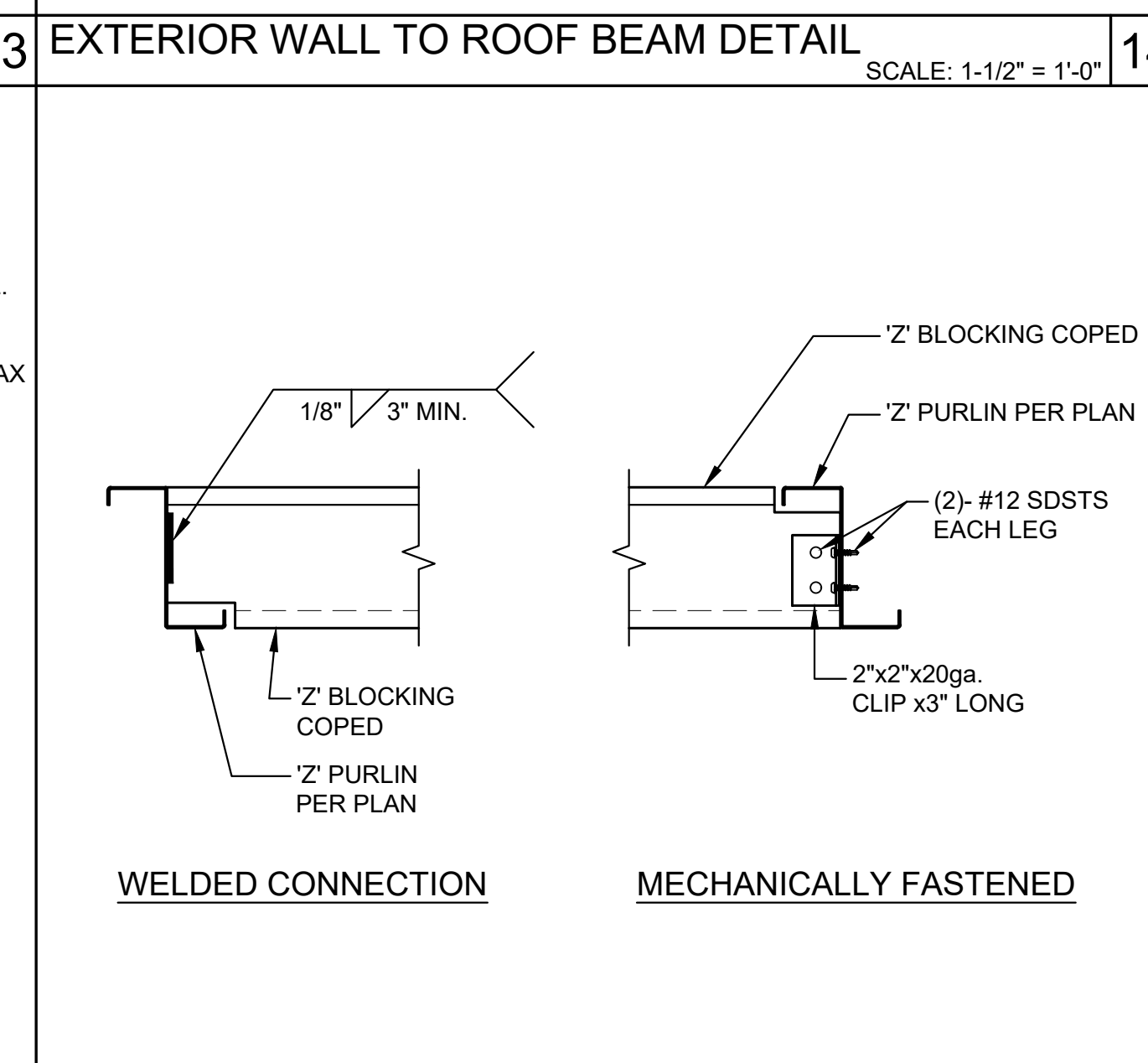
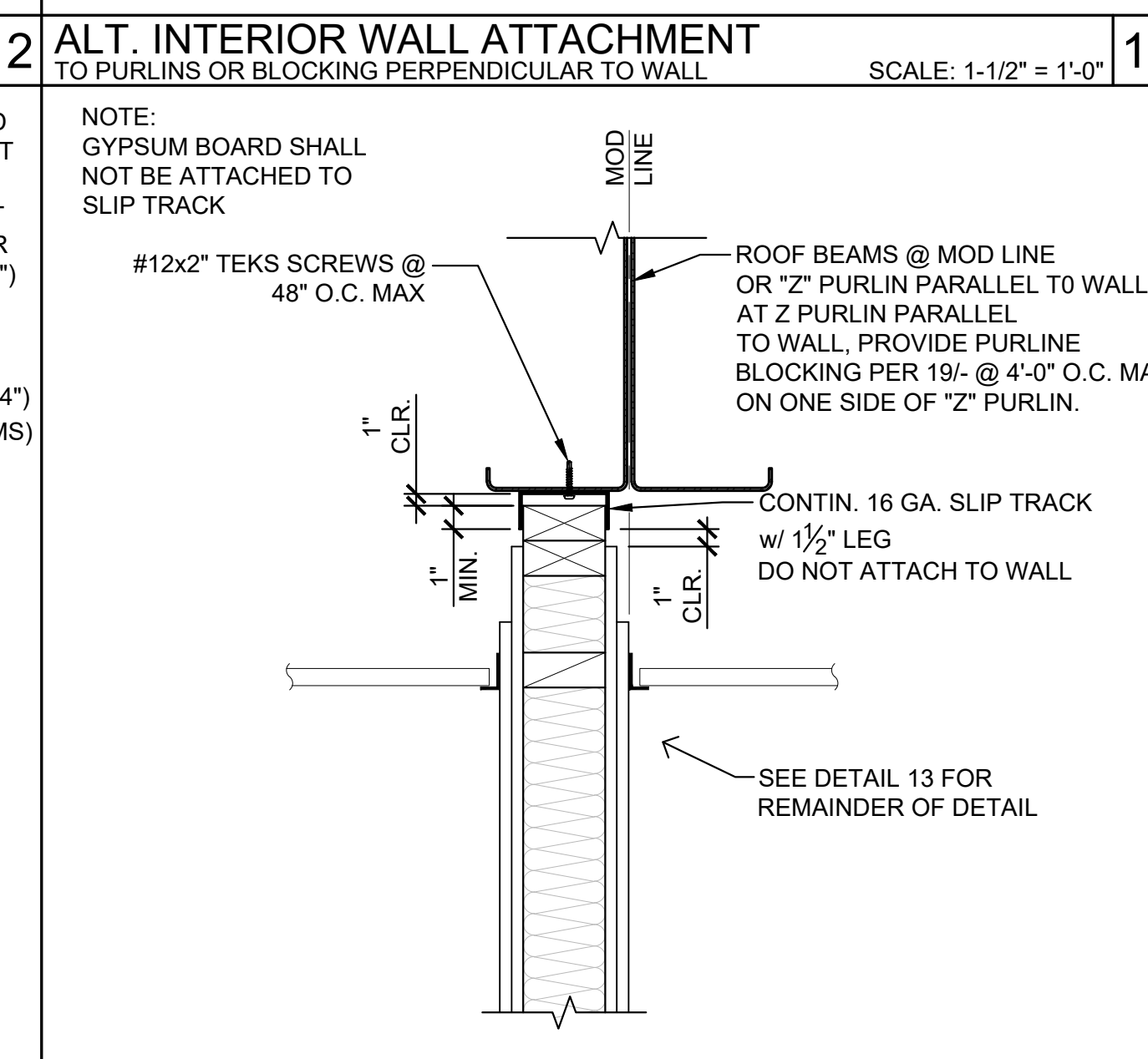
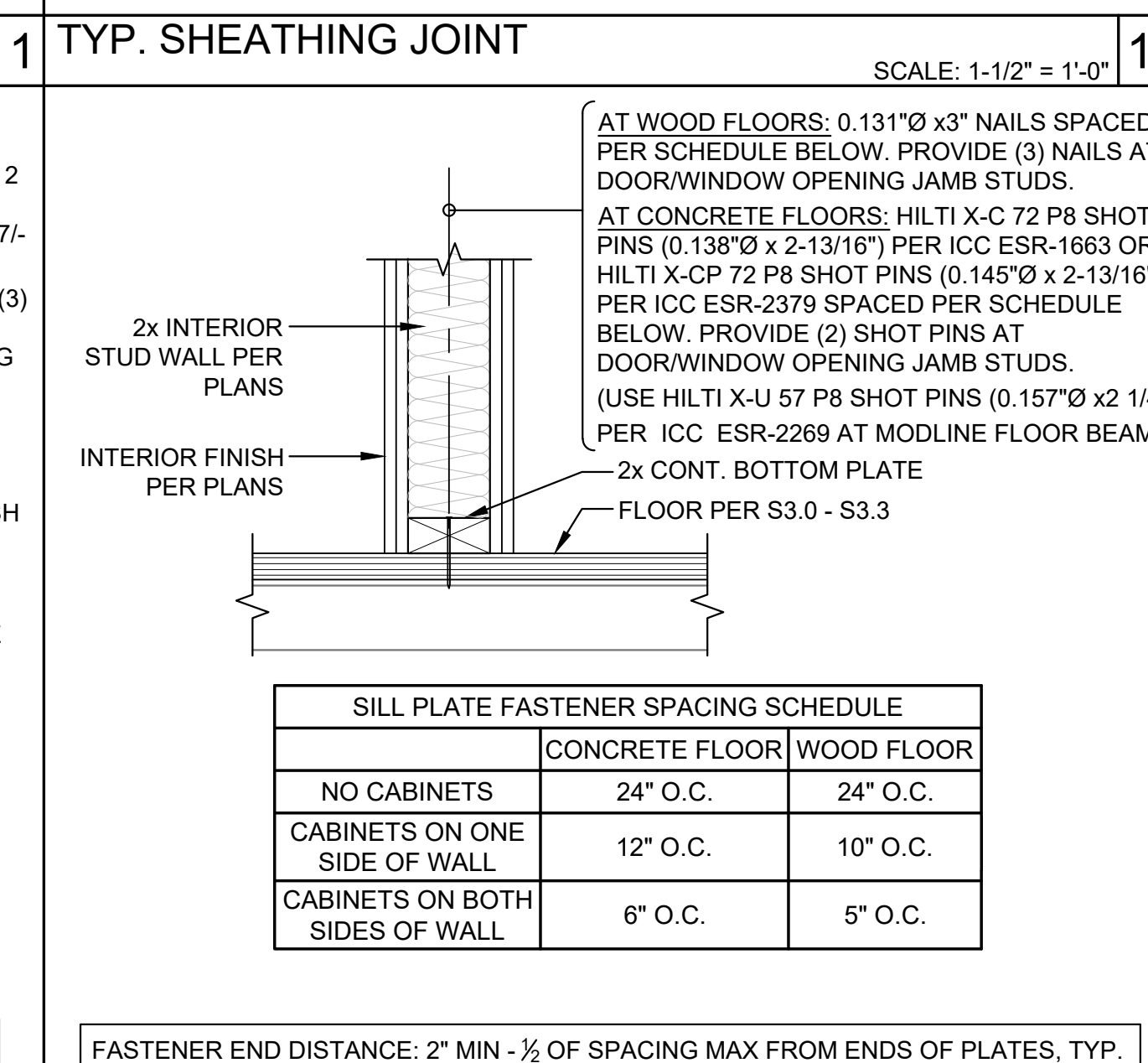
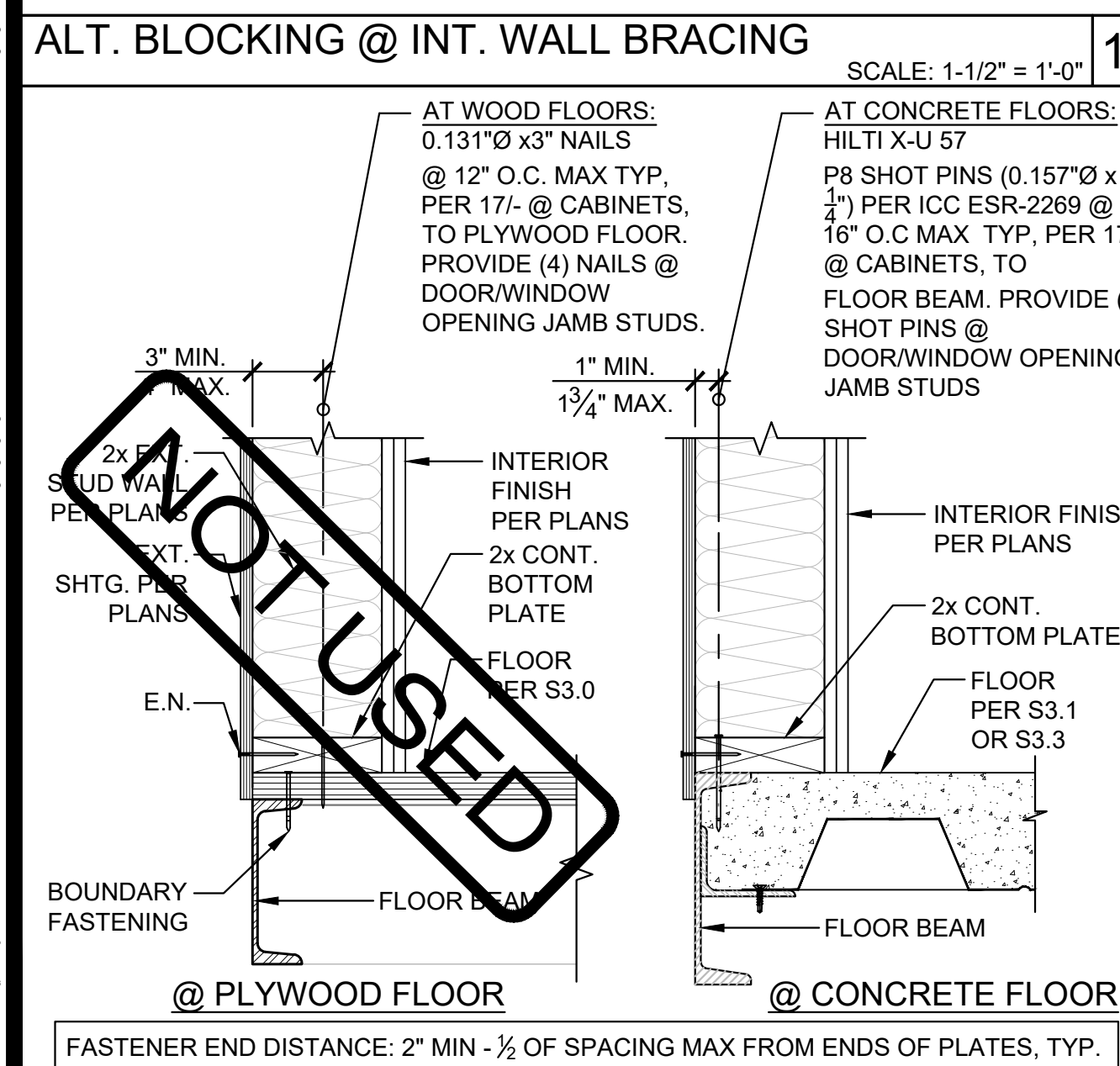
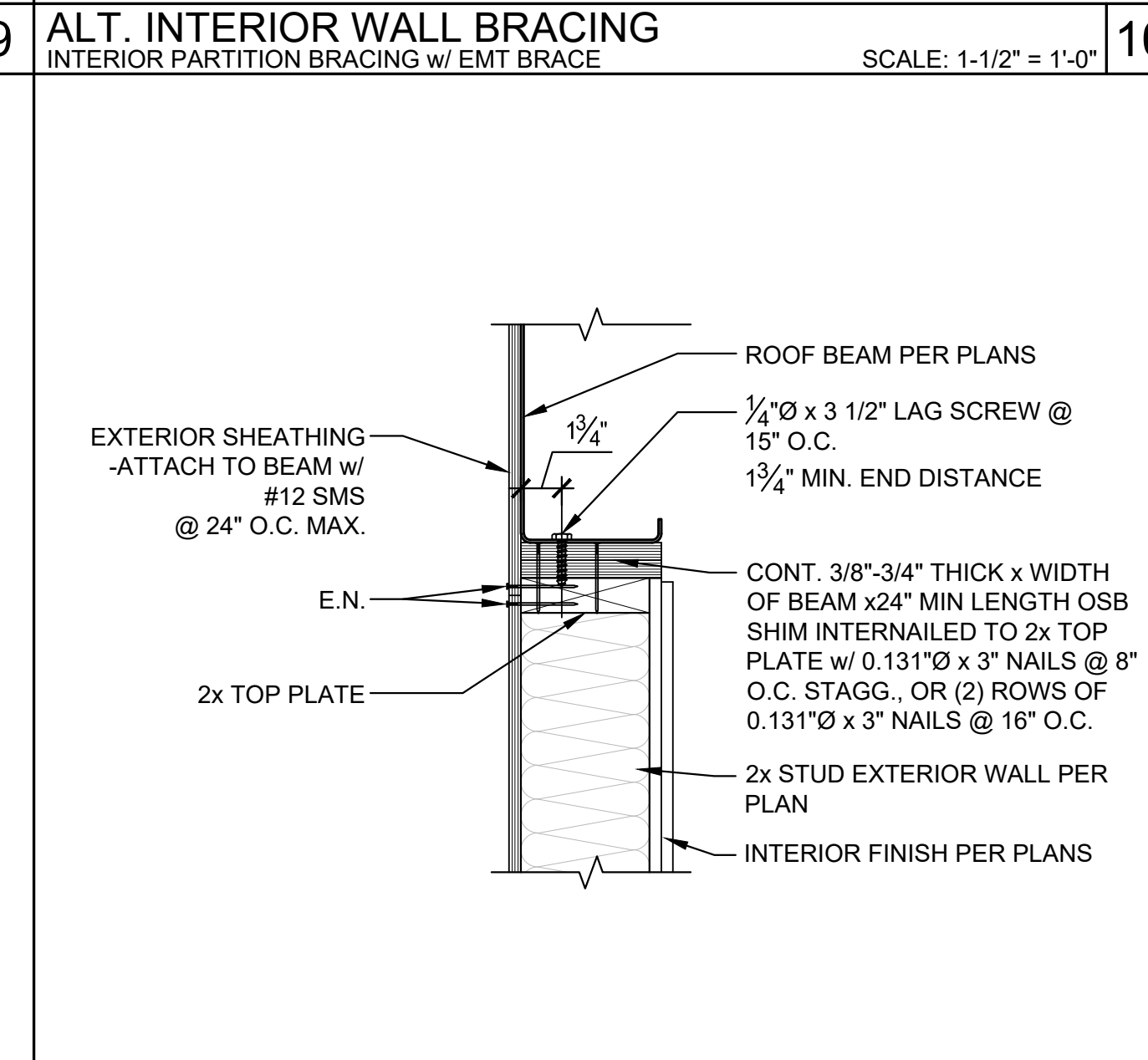
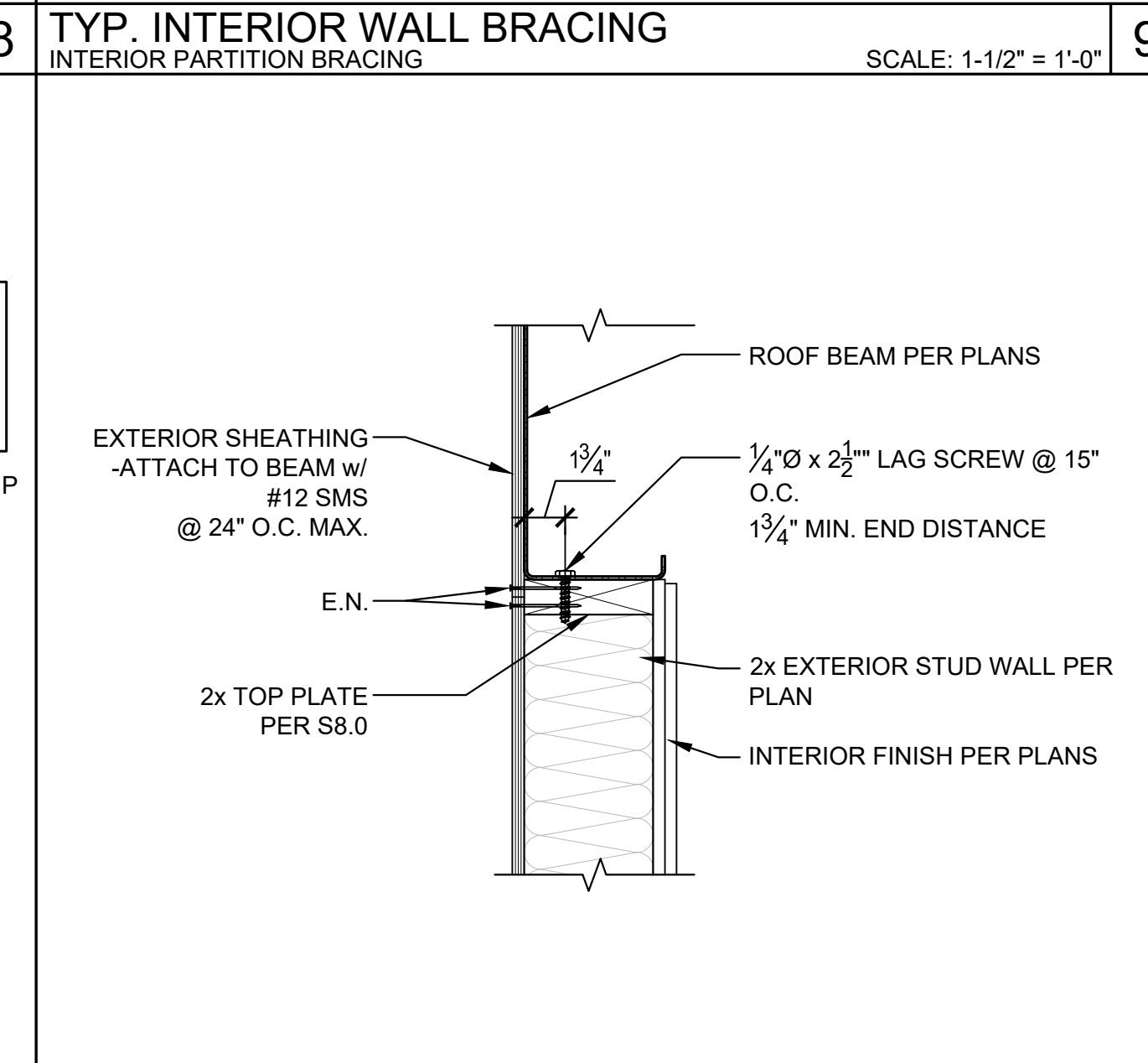
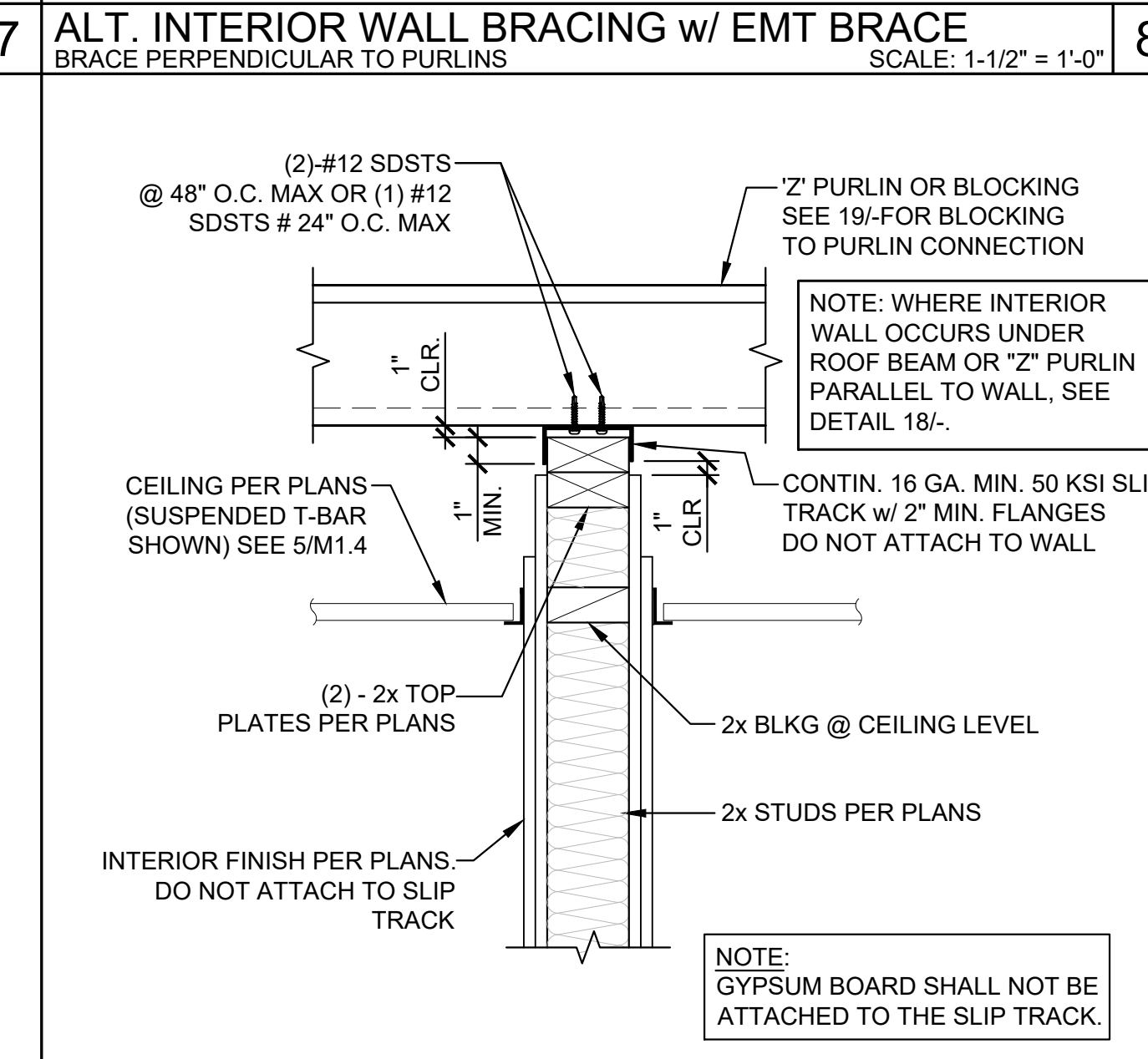
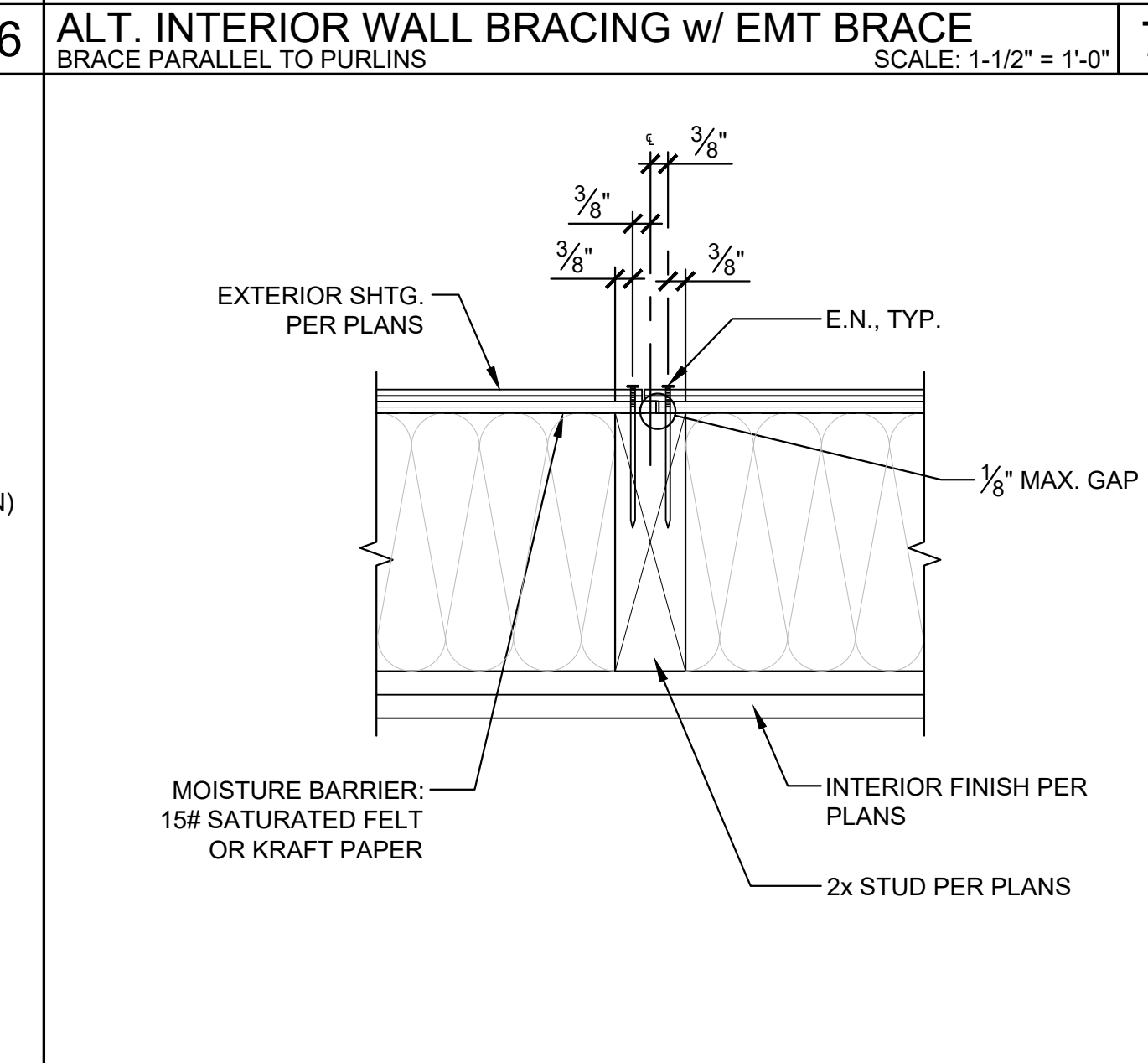
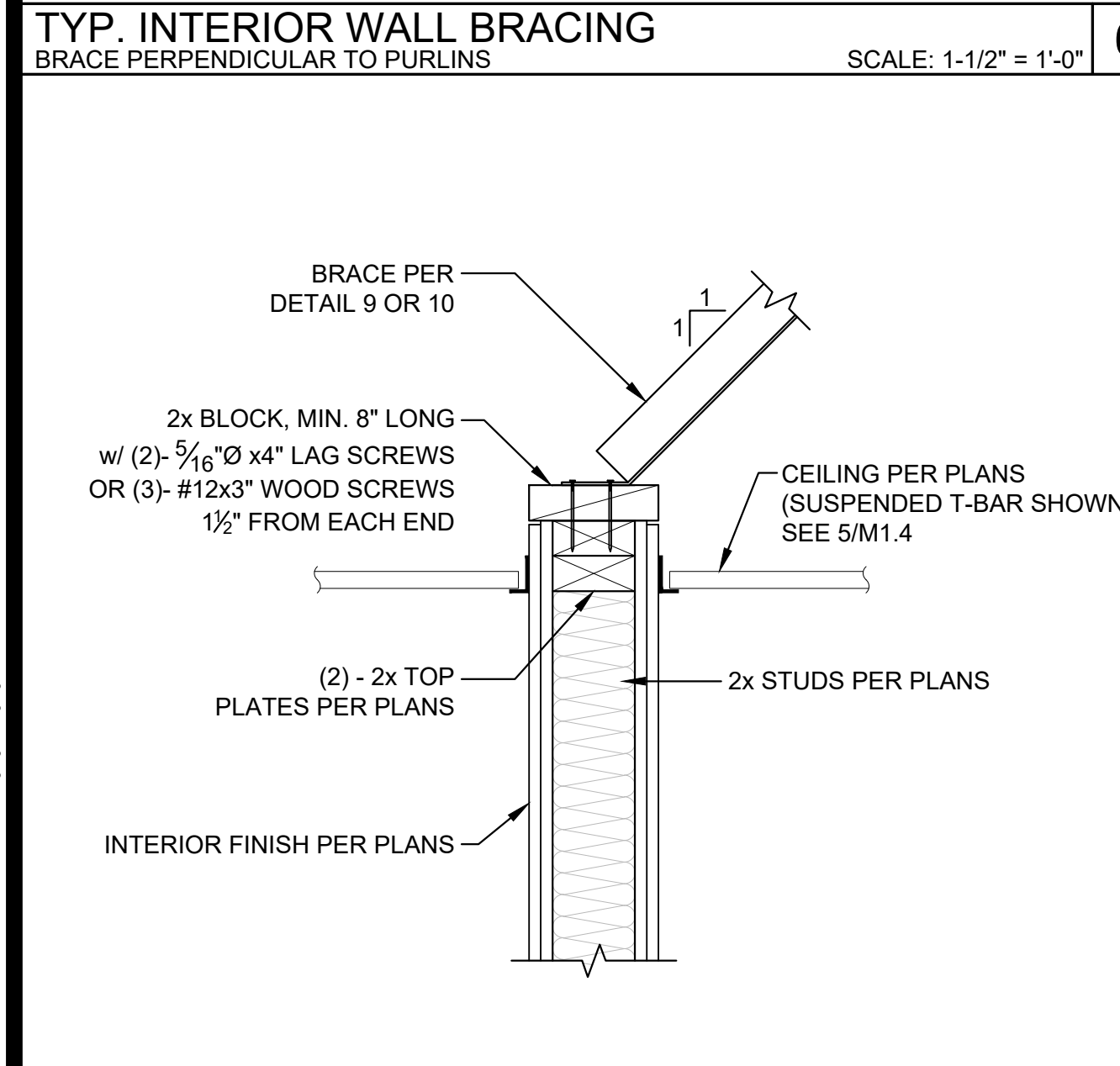
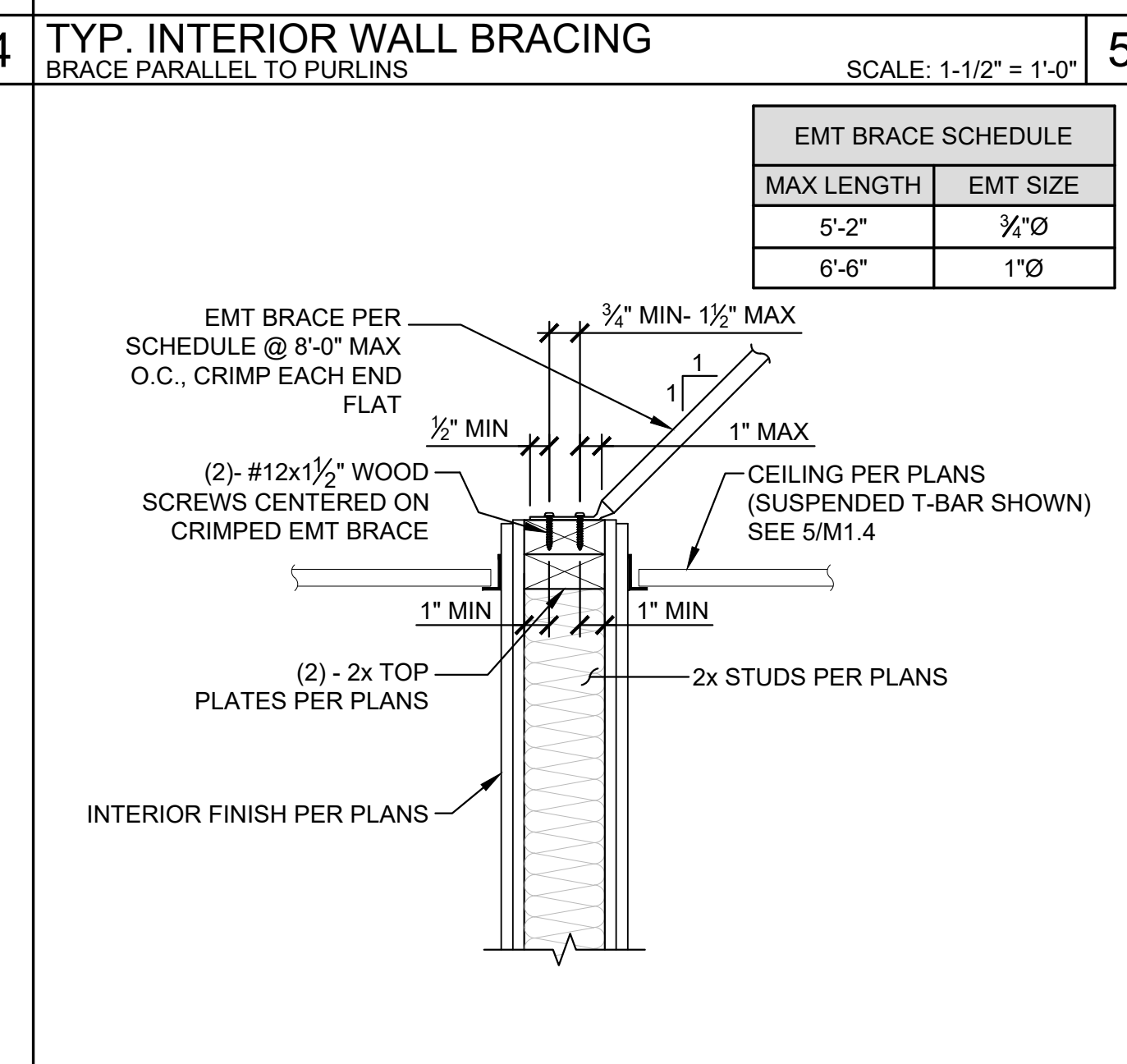
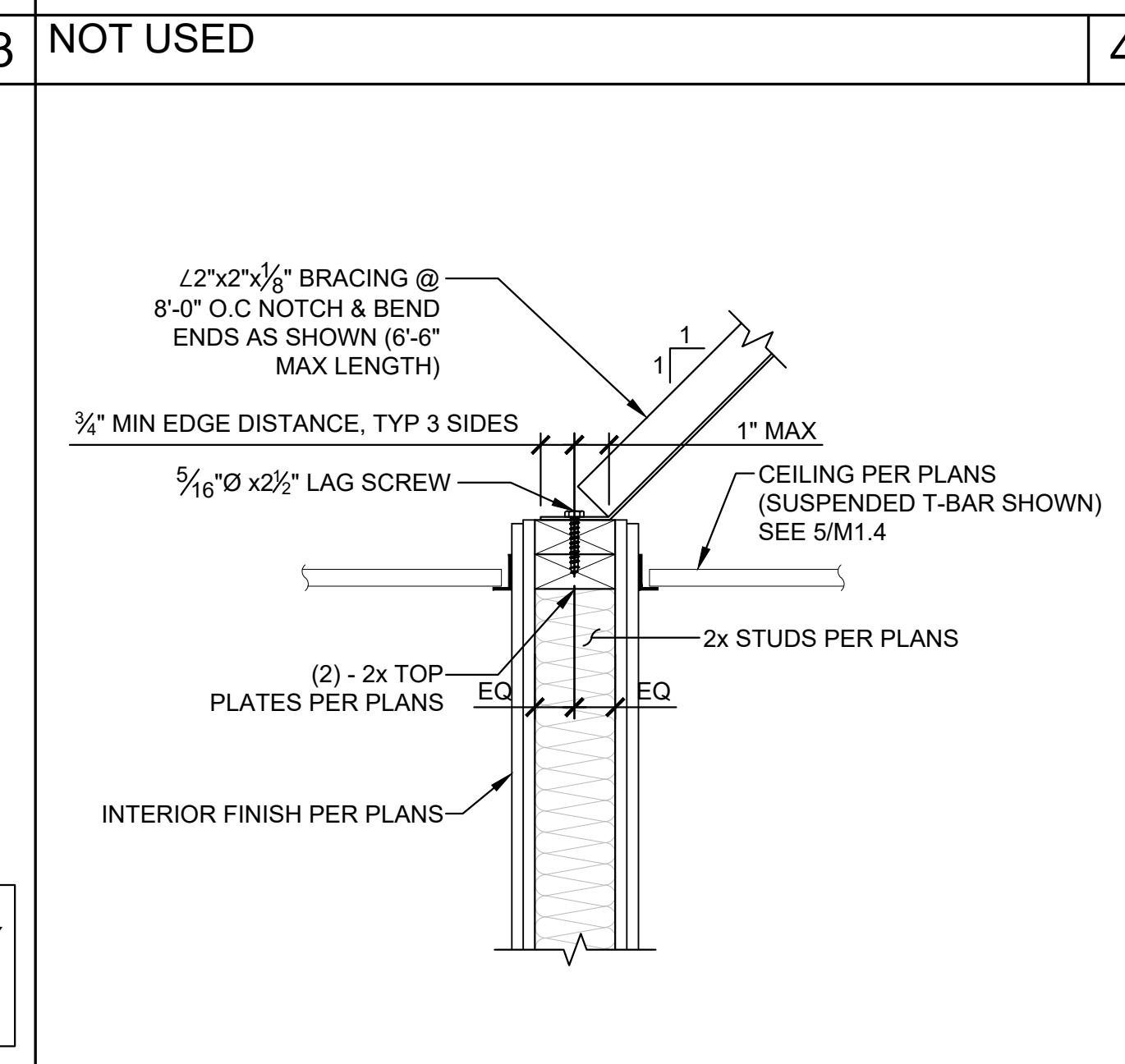
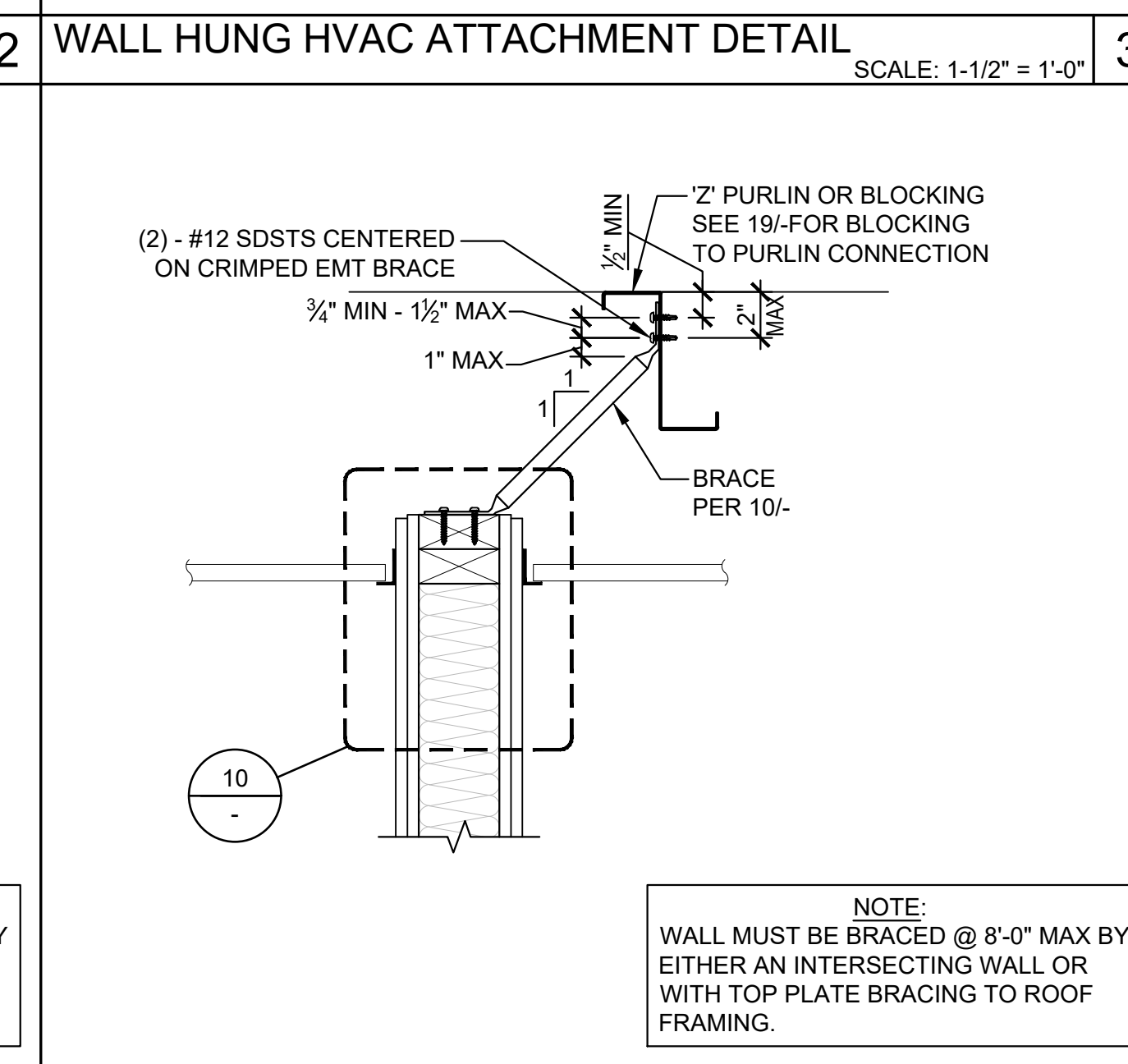
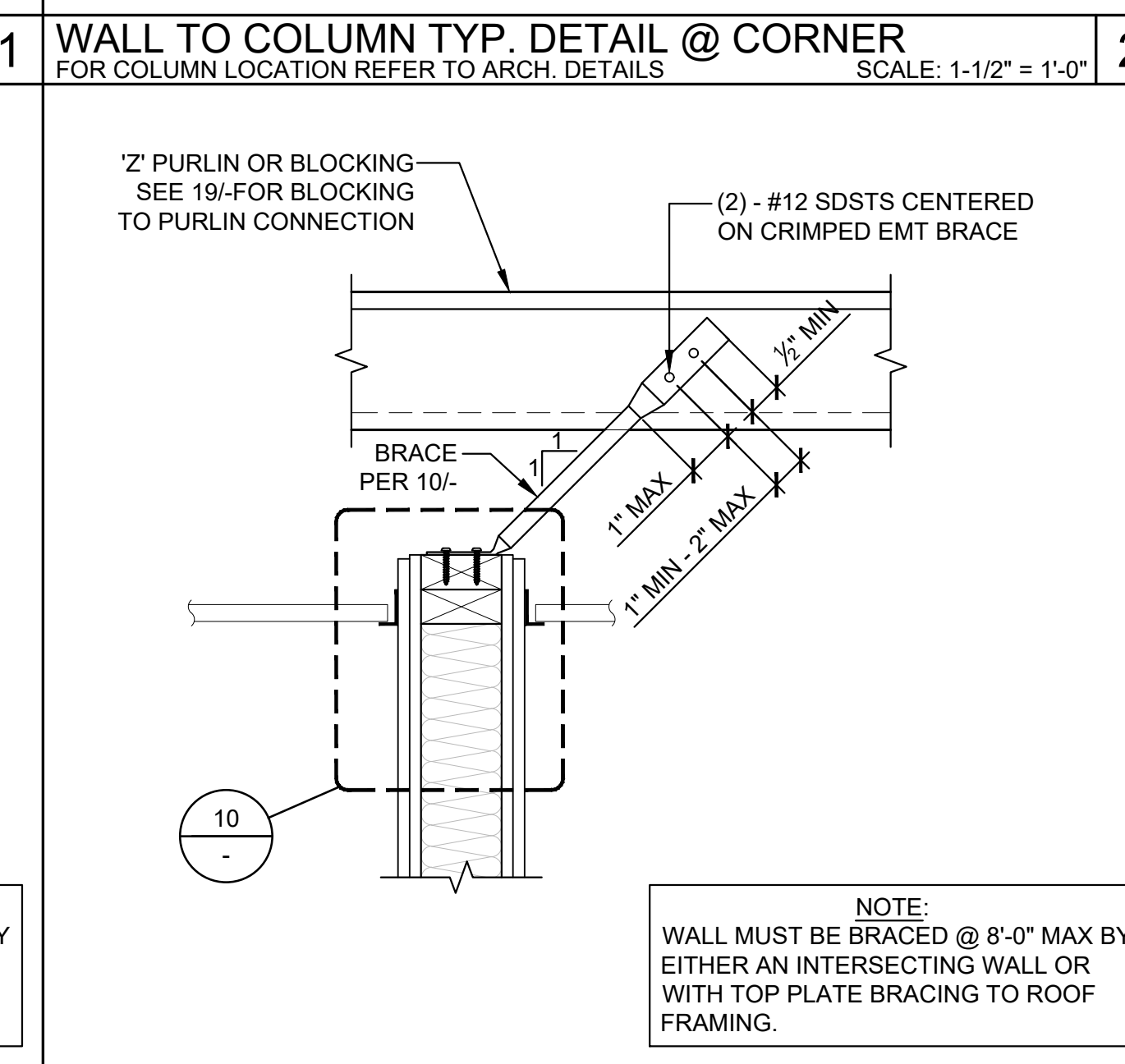
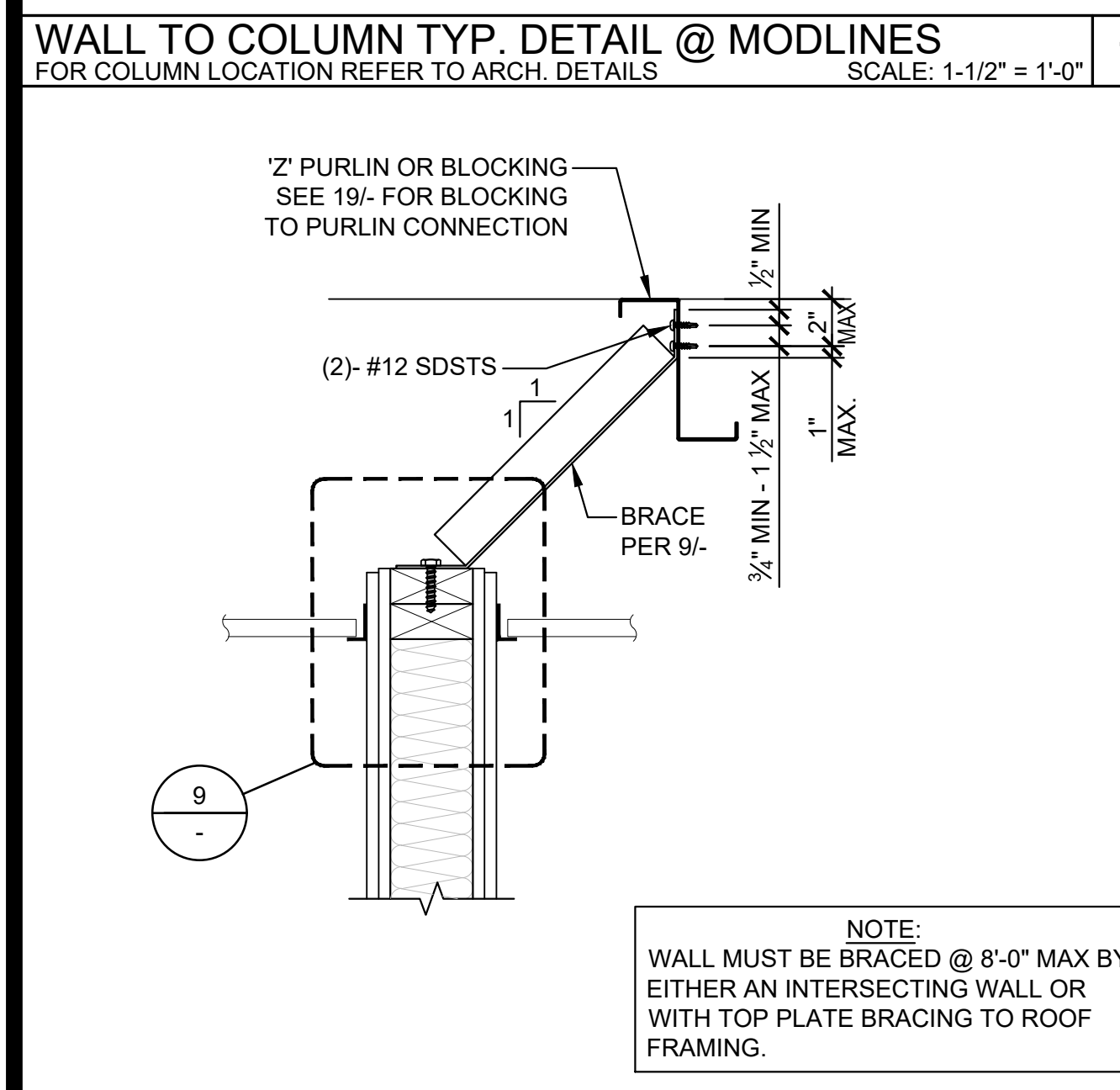
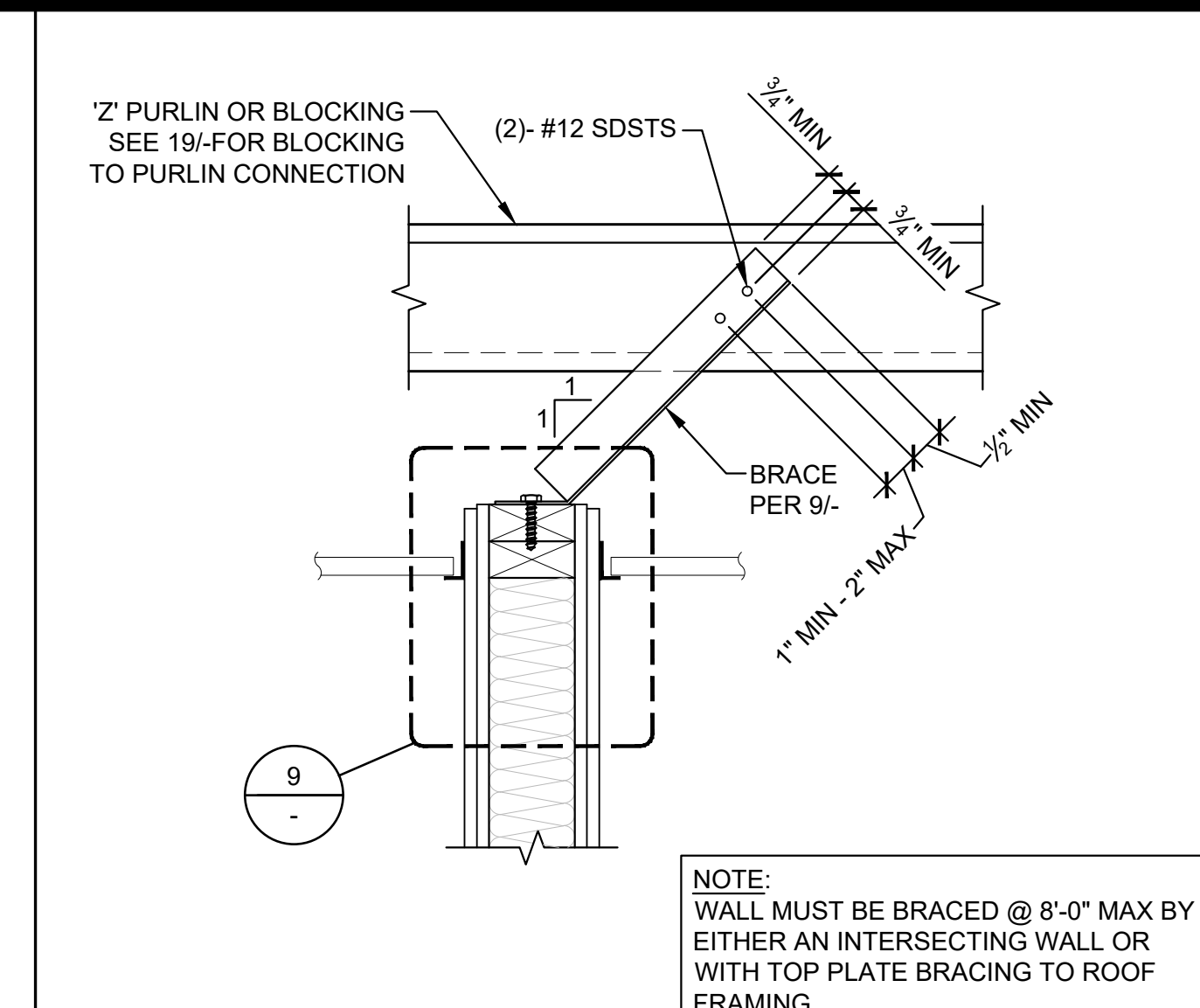
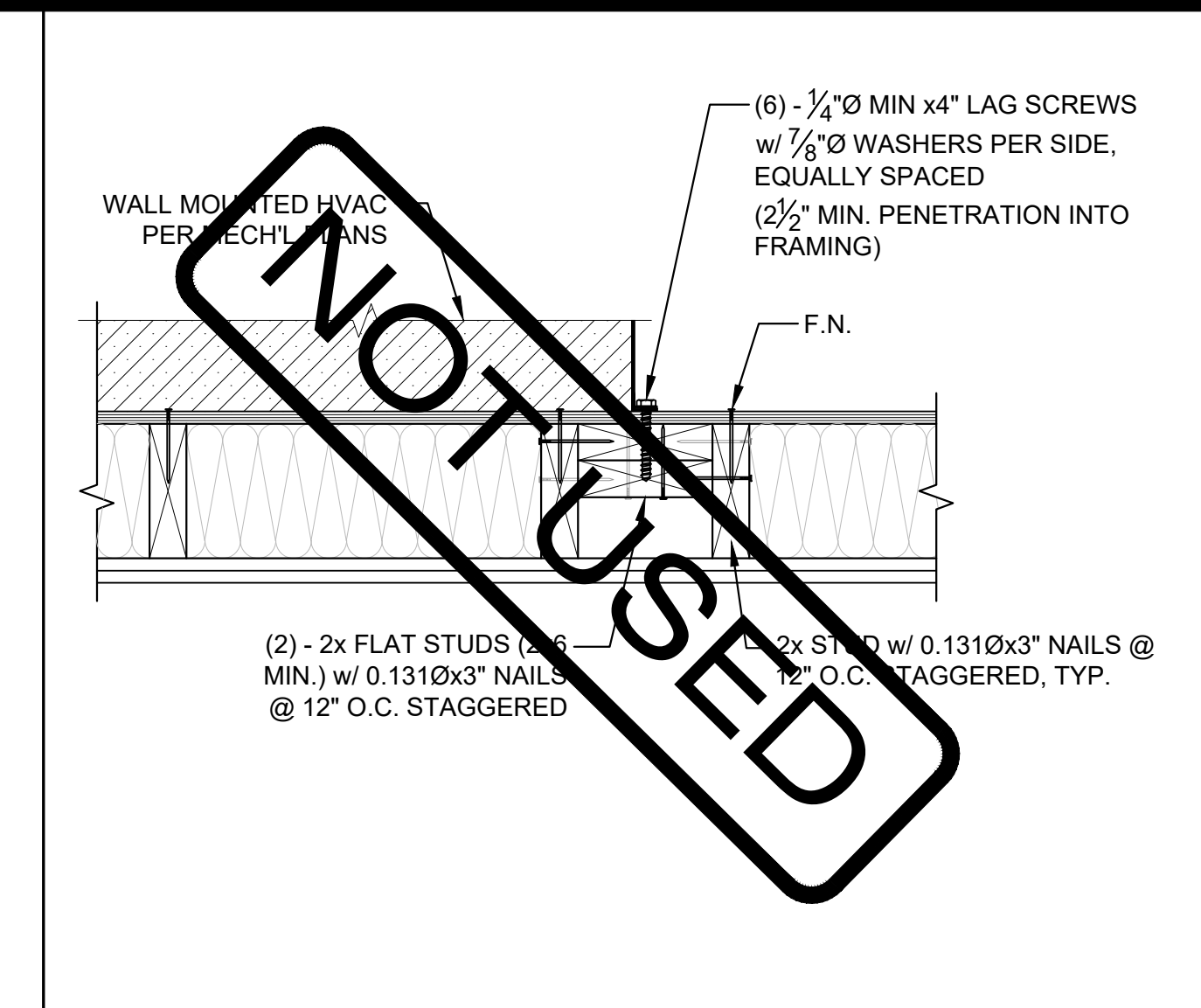
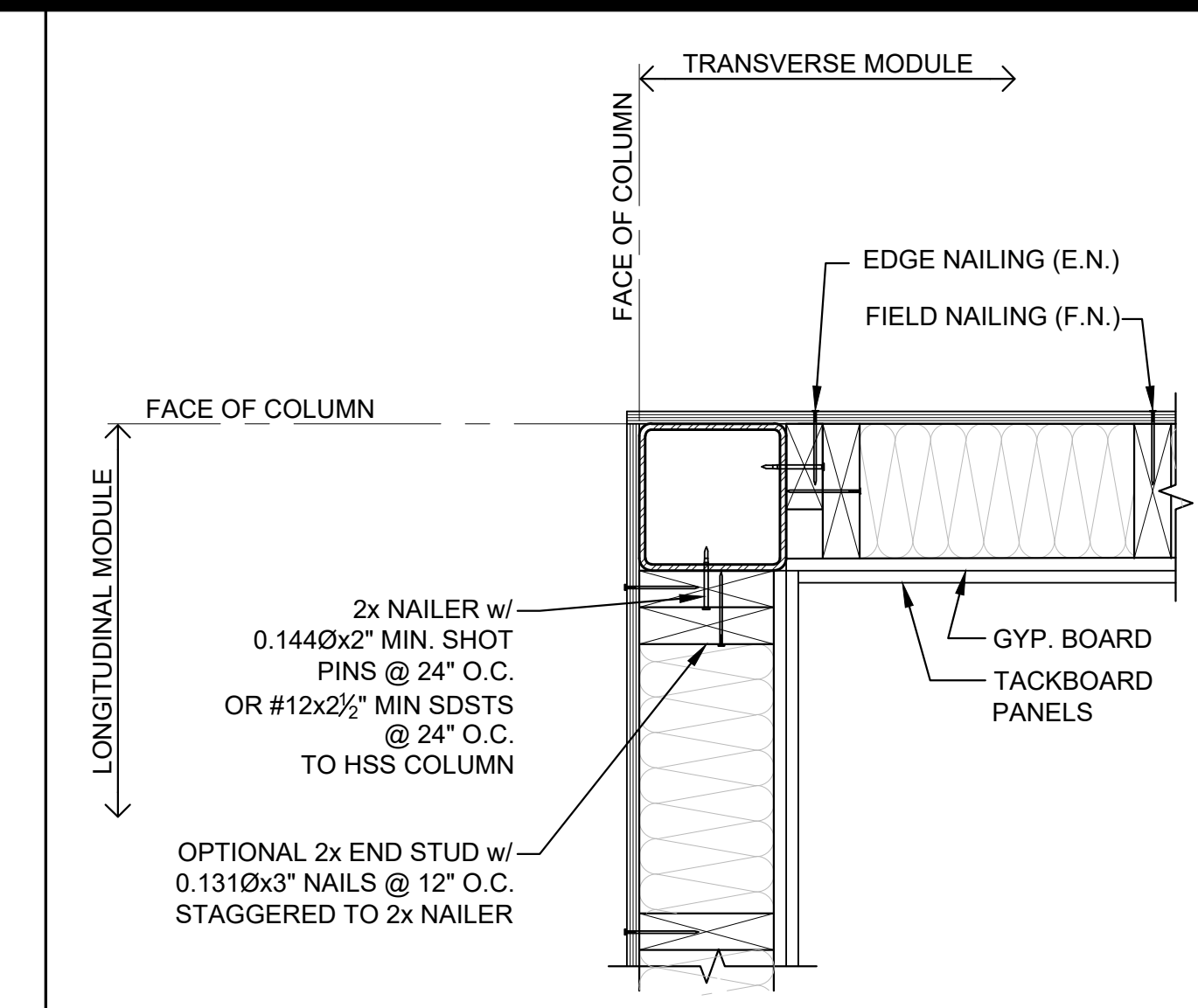
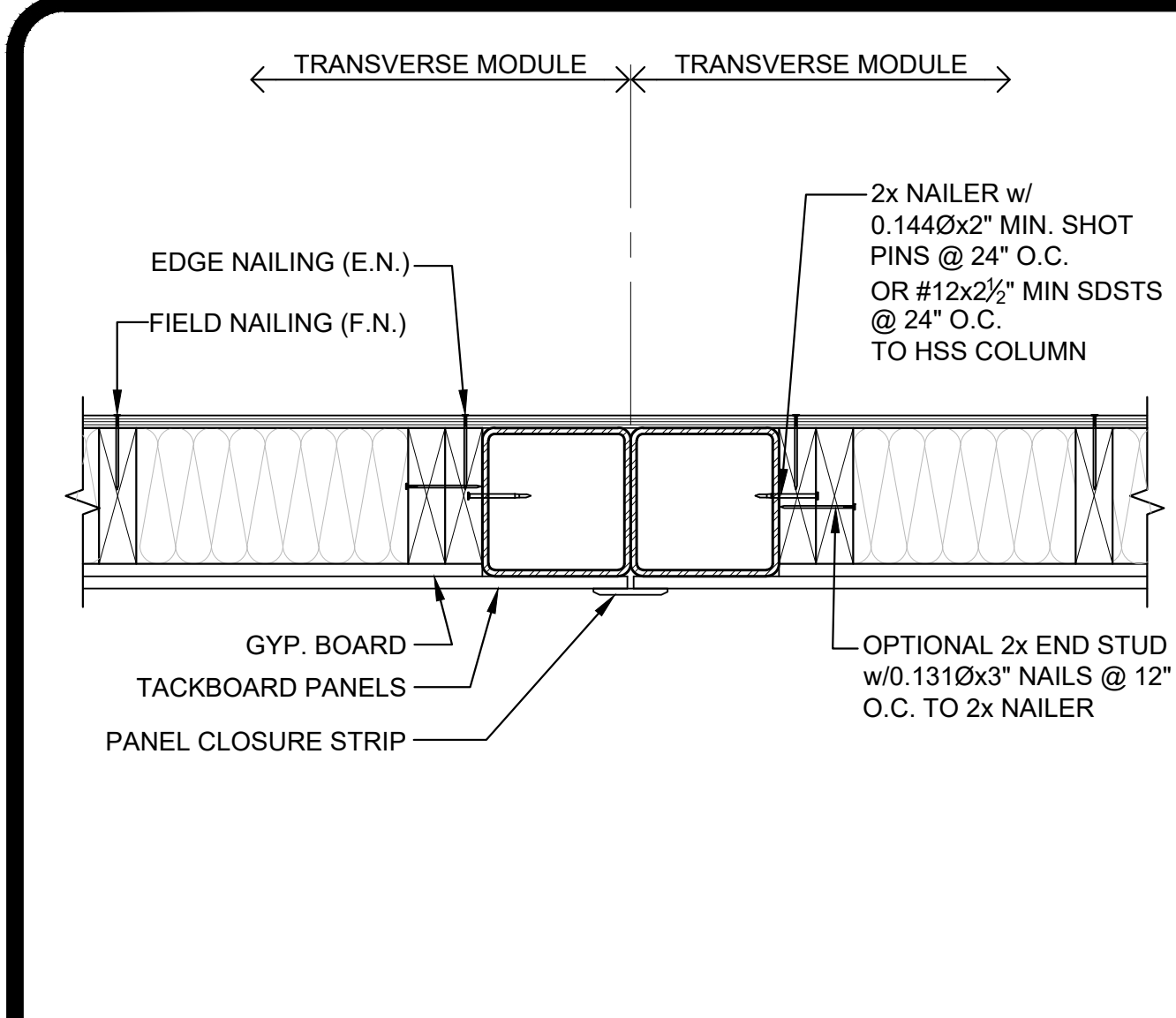
2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC

 07/07/2021
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REVISIONS

DRAWN BY: AS NOTED
 DATE: MM/DD/YYYY
 PROJECT NO: XXXX-20
 SHEET TITLE: WALL FRAMING DETAILS - WOOD STUDS
 SHEET NUMBER:

S8.1



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-122206 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/29/2022



- 1 MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- 2 CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- 3 INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
- 4 CEILING HEIGHT @ 8'-0" MIN.
- 5 STRUT/PLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
- 6 FIXED CEILING END, SEE DETAIL 5A/M1.4
- 7 FREE CEILING END, SEE DETAIL 5B/M1.4
- 8 CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
- 9 TYP. HVAC UNIT
- 10 OPTIONAL SOLA-TUBE - SEE DETAIL 1/M1.6

SHEET NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
3. LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
4. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)

GENERAL NOTES

- MEP COMPONENT ANCHORAGE NOTES**
- 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 CHAPTER 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 INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A 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 REFERENCE 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 SUPPORT 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 SYSTEM BRACING NOTES

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 13.6.3, 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 #) # _____.

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PRE-CHECKED SET NAME
 24'x40' THRU 120'x40'
 HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
 .
 .
 .

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-118544 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/09/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PRODUCT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC

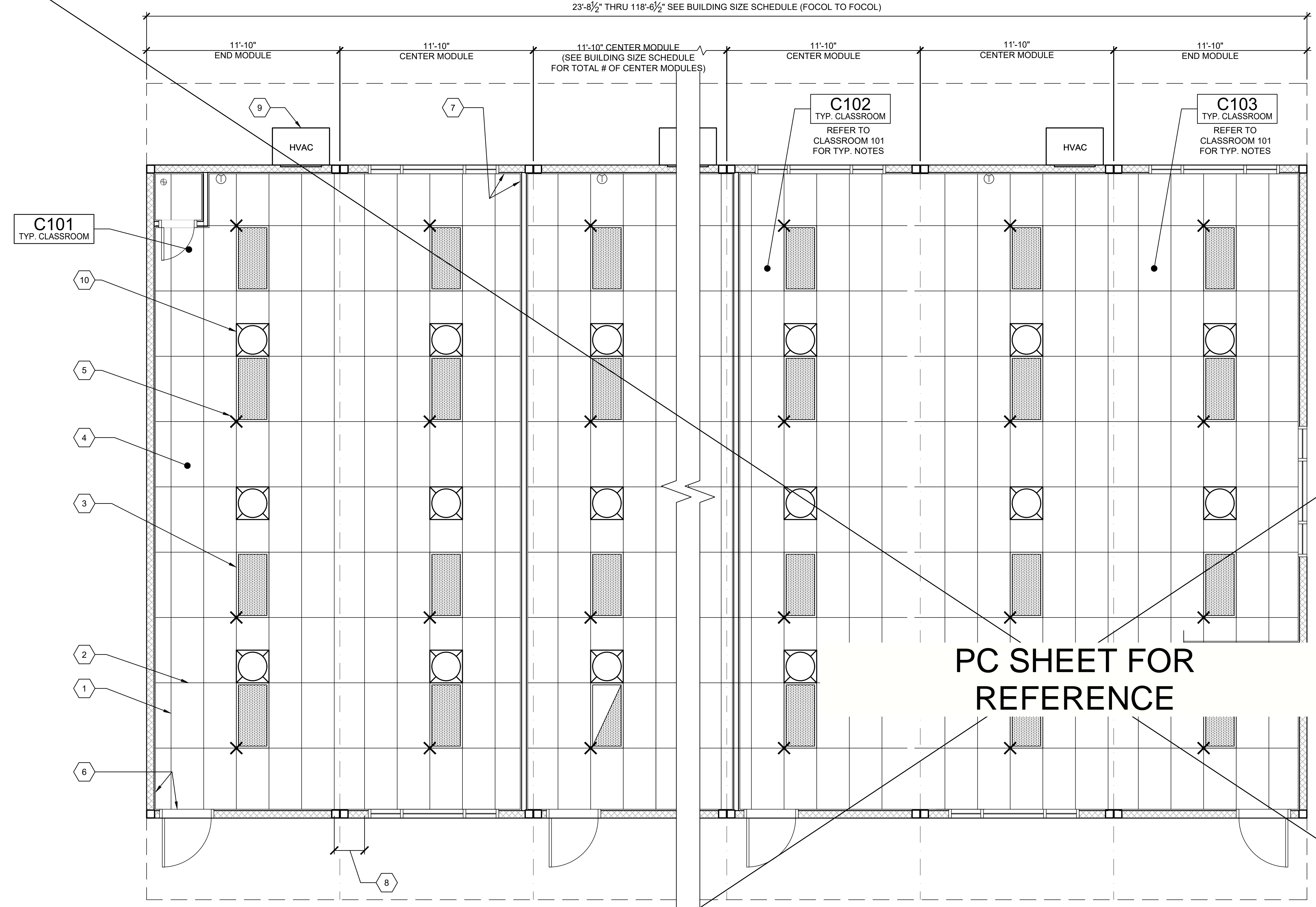
 Patrick A. Hoover
 LICENSED ARCHITECT
 No. C12631
 Exp. 3-31-23
 STATE OF CALIFORNIA

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REVISIONS

DRAWN BY: _____
 SCALE: AS NOTED
 DATE: MM/DD/YYYY
 PROJECT NO: XXXX-20
 SHEET TITLE: TYPICAL REFLECTED CEILING PLAN
 SHEET NUMBER: _____

M1.0



TYPICAL REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" 1

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH ¹
<input type="checkbox"/> 24'x40'	2	0	23'-8 1/2"
<input type="checkbox"/> 36'x40'	3	1	35'-6 1/4"
<input type="checkbox"/> 48'x40'	4	2	47'-5"
<input type="checkbox"/> 60'x40'	5	3	59'-3 1/4"
<input type="checkbox"/> 72'x40'	6	4	71'-1 1/2"
<input type="checkbox"/> 84'x40'	7	5	82'-11 3/4"
<input type="checkbox"/> 96'x40'	8	6	94'-10"
<input type="checkbox"/> 108'x40'	9	7	106'-8 1/4"
<input type="checkbox"/> 120'x40'	10	8	118'-6 1/2"

NOTES:
 1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.0, S1.1, S1.2 & S1.3

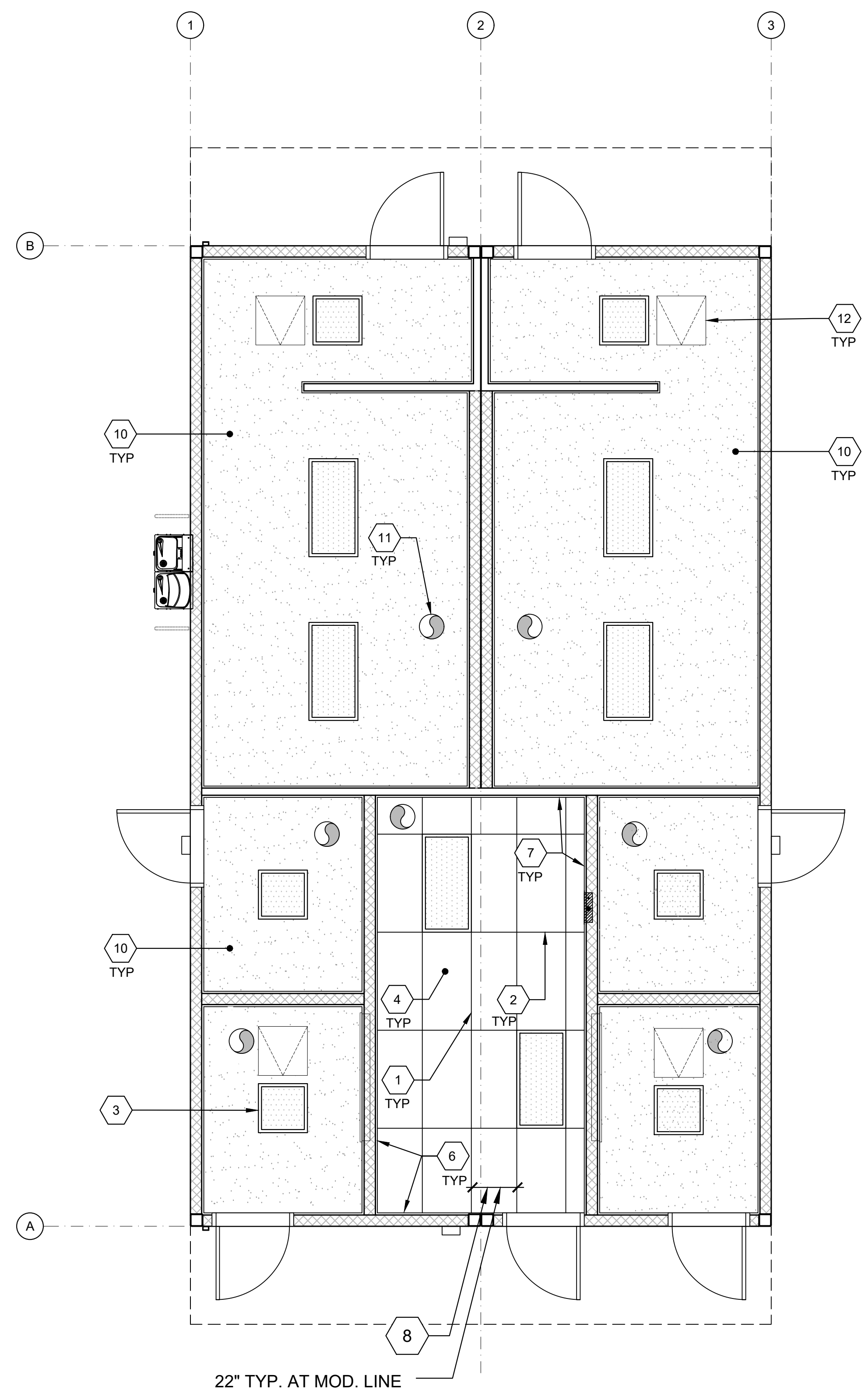
NOT USED

NOT USED

NOT USED

BUILDING SIZE SCHEDULE

MEP COMPONENT ANCHORAGE NOTES



22" TYP. AT MOD. LINE

- 1 MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- 2 CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- 3 INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
- 4 CEILING HEIGHT @ 9'-0" MIN.
- 5 STRUT/PLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
- 6 FIXED CEILING END, SEE DETAIL 5A/M1.4
- 7 FREE CEILING END, SEE DETAIL 5B/M1.4
- 8 CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
- 9 NOT USED
- 10 GYPSUM CEILING
- 11 EXHAUST FAN
- 12 2'X2' CEILING ACCESS HATCH

SHEET NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
3. LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
4. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)

GENERAL NOTES

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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 INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A 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 REFERENCE 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 SUPPORT 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 SYSTEM BRACING NOTES
 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 #) # _____.



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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
ROWLAND USD
HOLLINGWORTH ES
(1) 24' x 40' RESTROOM

2019 CBC PRE-CHECK (PC) DOCUMENT
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REVISIONS

DRAWN BY: JMA/VV
 SCALE: AS NOTED
 DATE: 06/24/22
 PROJECT NO: 1685-20
 SHEET TITLE: REFLECTED CEILING PLAN
 SHEET NUMBER: M1.0-M

REFLECTED CEILING PLAN

SCALE: 1/4" = 1' - 0" 1

NOT USED

NOT USED

NOT USED

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH
<input checked="" type="checkbox"/> 24'x40'	2	0	23'-8 1/2"
<input type="checkbox"/> 36'x40'	3	1	35'-6 1/4"
<input type="checkbox"/> 48'x40'	4	2	47'-5"
<input type="checkbox"/> 60'x40'	5	3	59'-3 1/4"
<input type="checkbox"/> 72'x40'	6	4	71'-1 1/2"
<input type="checkbox"/> 84'x40'	7	5	82'-1 1/4"
<input type="checkbox"/> 96'x40'	8	6	94'-10"
<input type="checkbox"/> 108'x40'	9	7	106'-8 1/4"
<input type="checkbox"/> 120'x40'	10	8	118'-6 1/2"

NOTES:
 1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.1

MEP COMPONENT ANCHORAGE NOTES

NOT USED

NOT USED

NOT USED

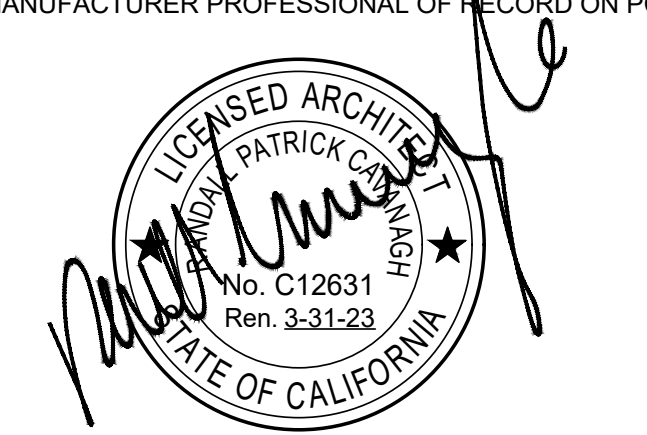
BUILDING SIZE SCHEDULE

MEP COMPONENT ANCHORAGE NOTES

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HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

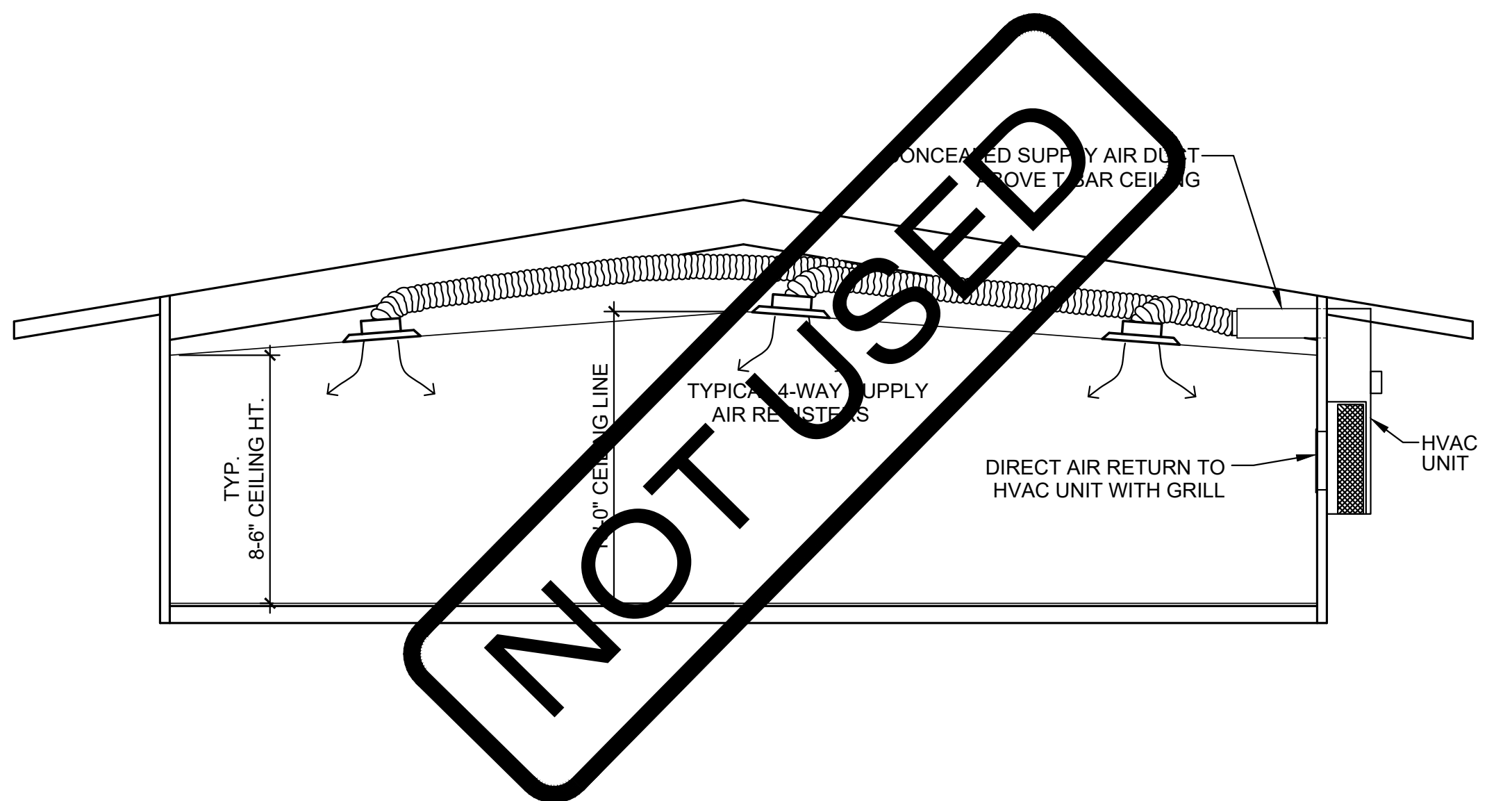
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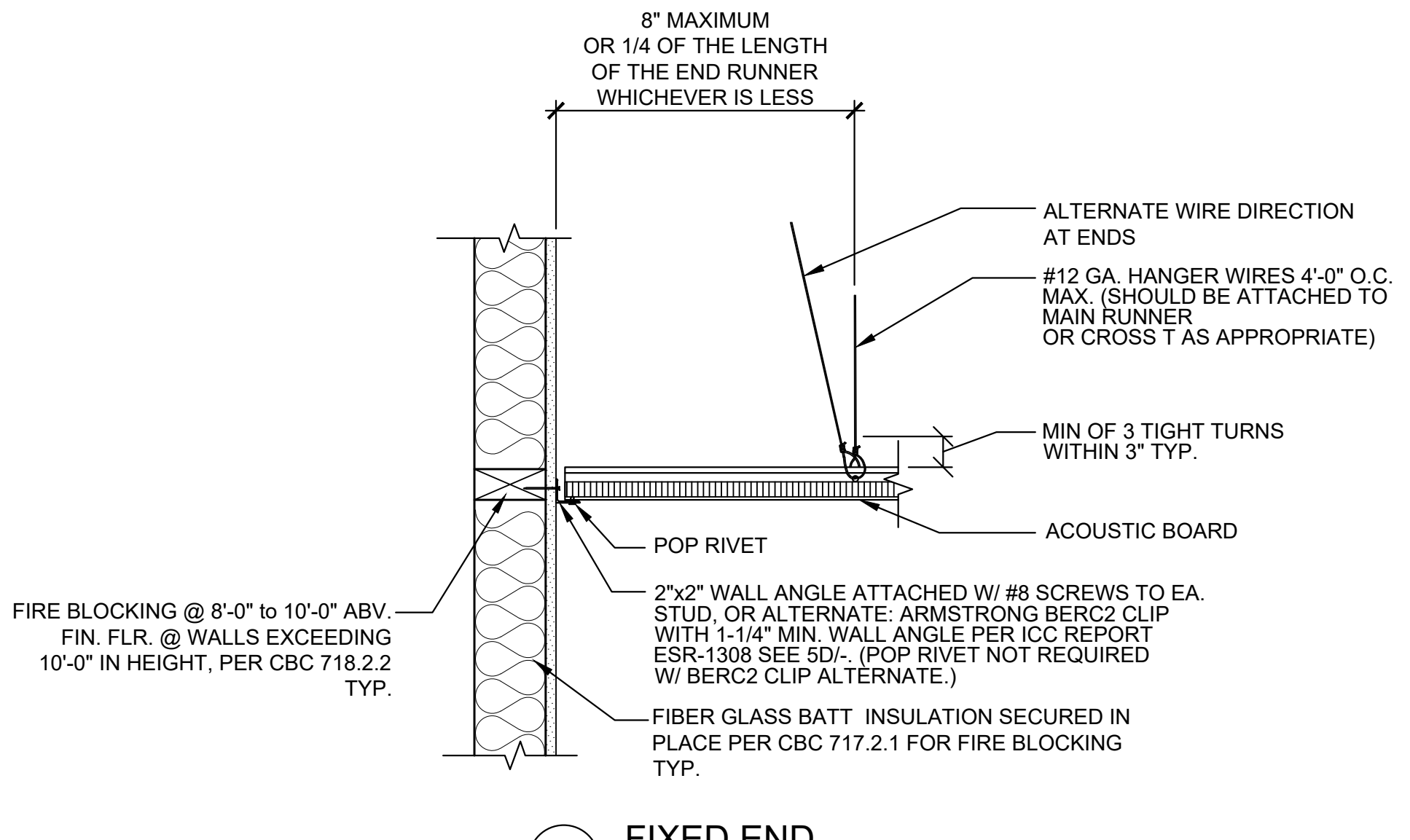
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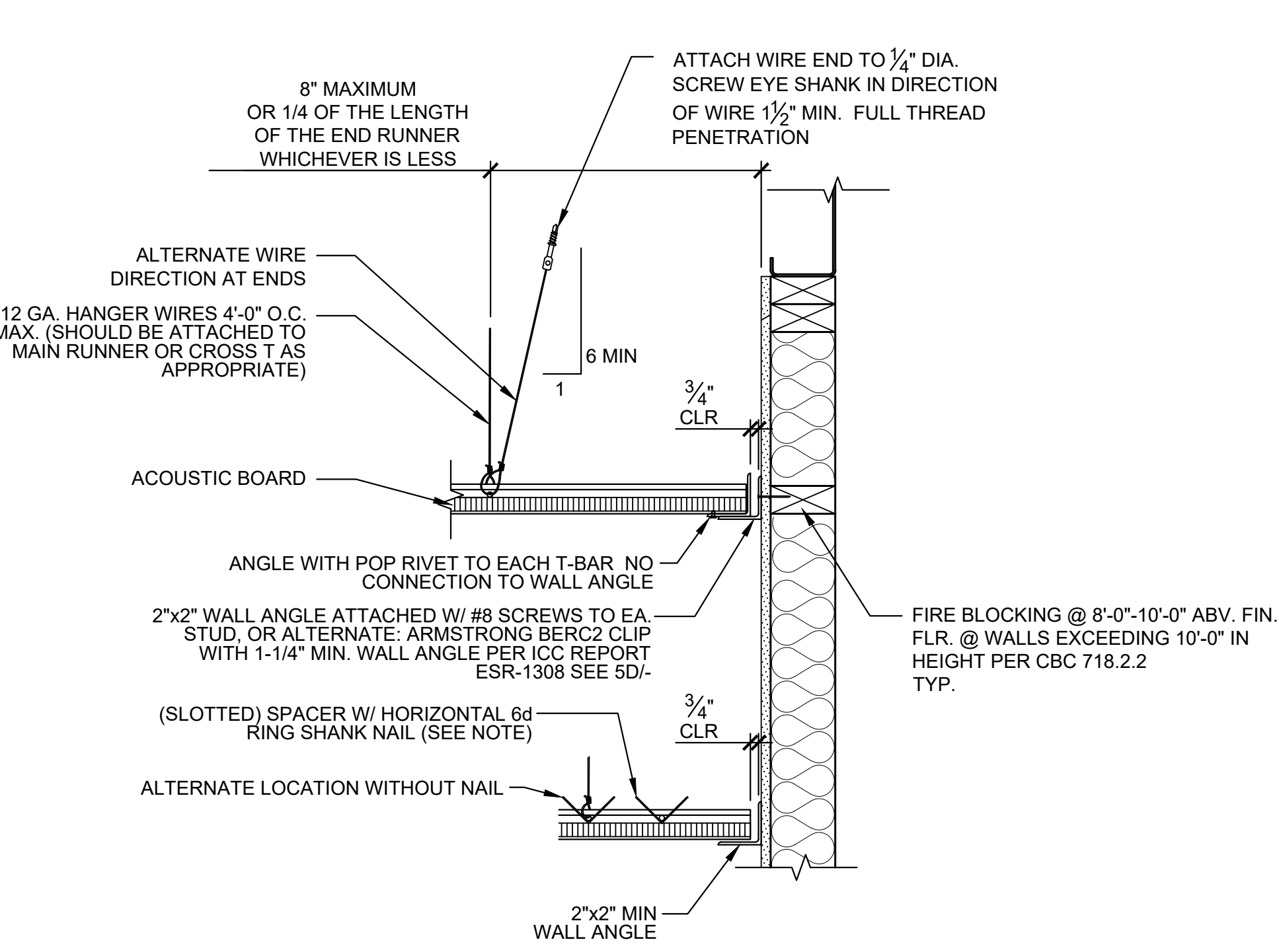
DRAWN BY: AS NOTED
 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE: MECHANICAL & CEILING DETAILS
 SHEET NUMBER: M1.4



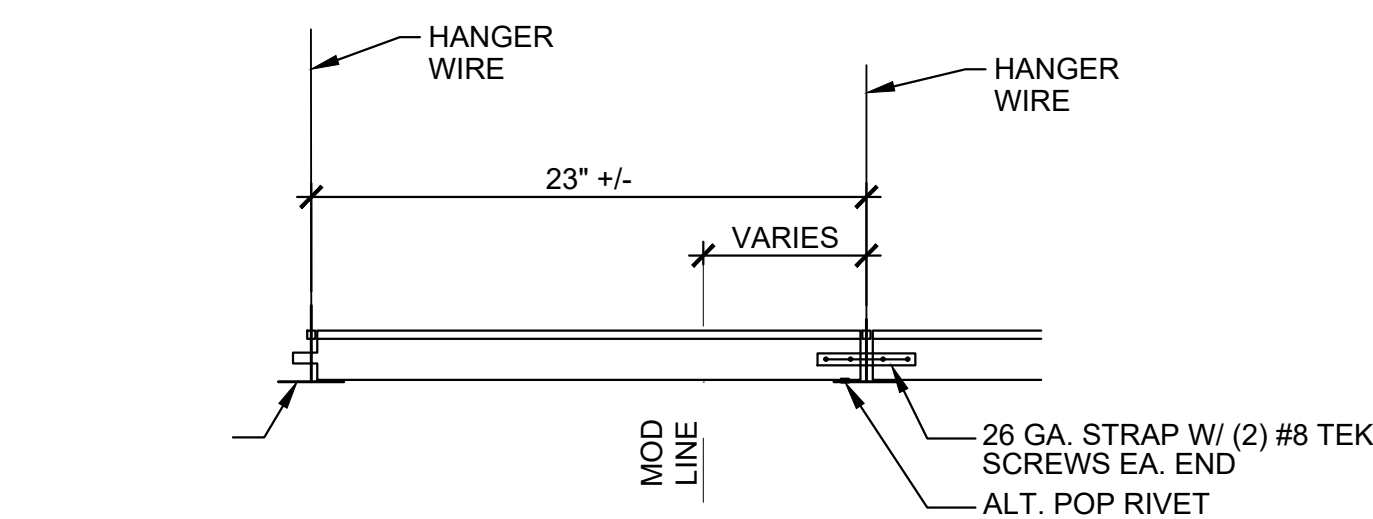
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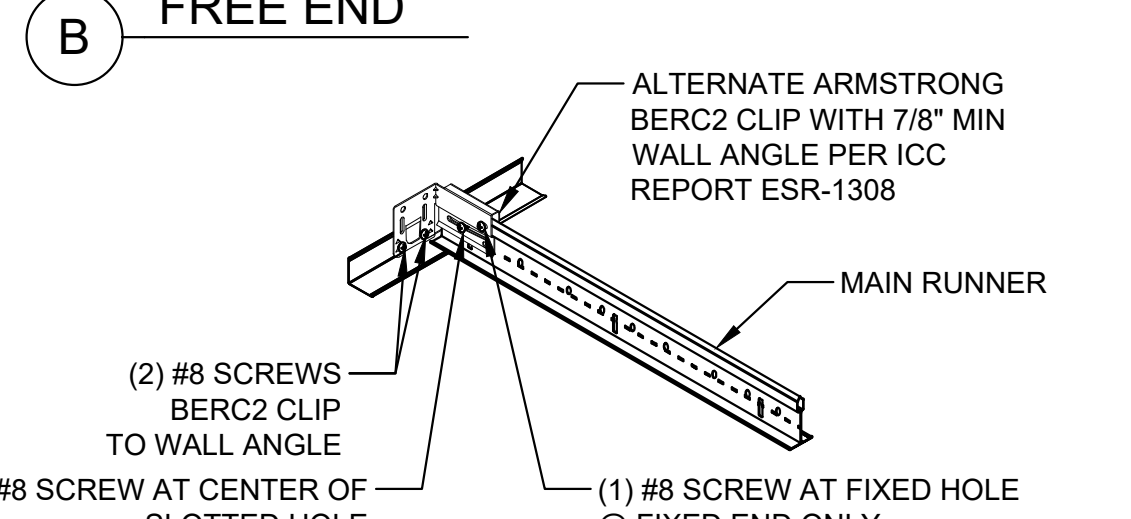
FIXED END A



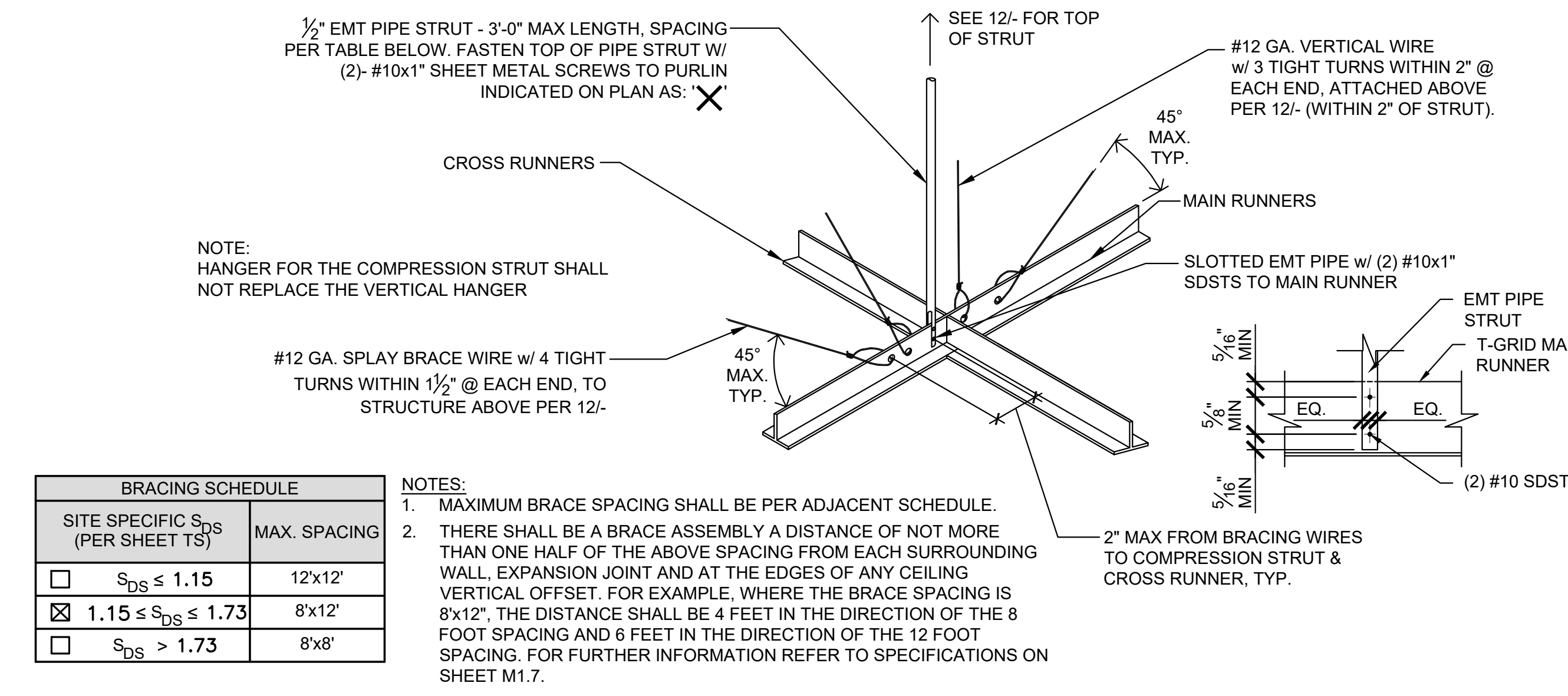
FREE END B



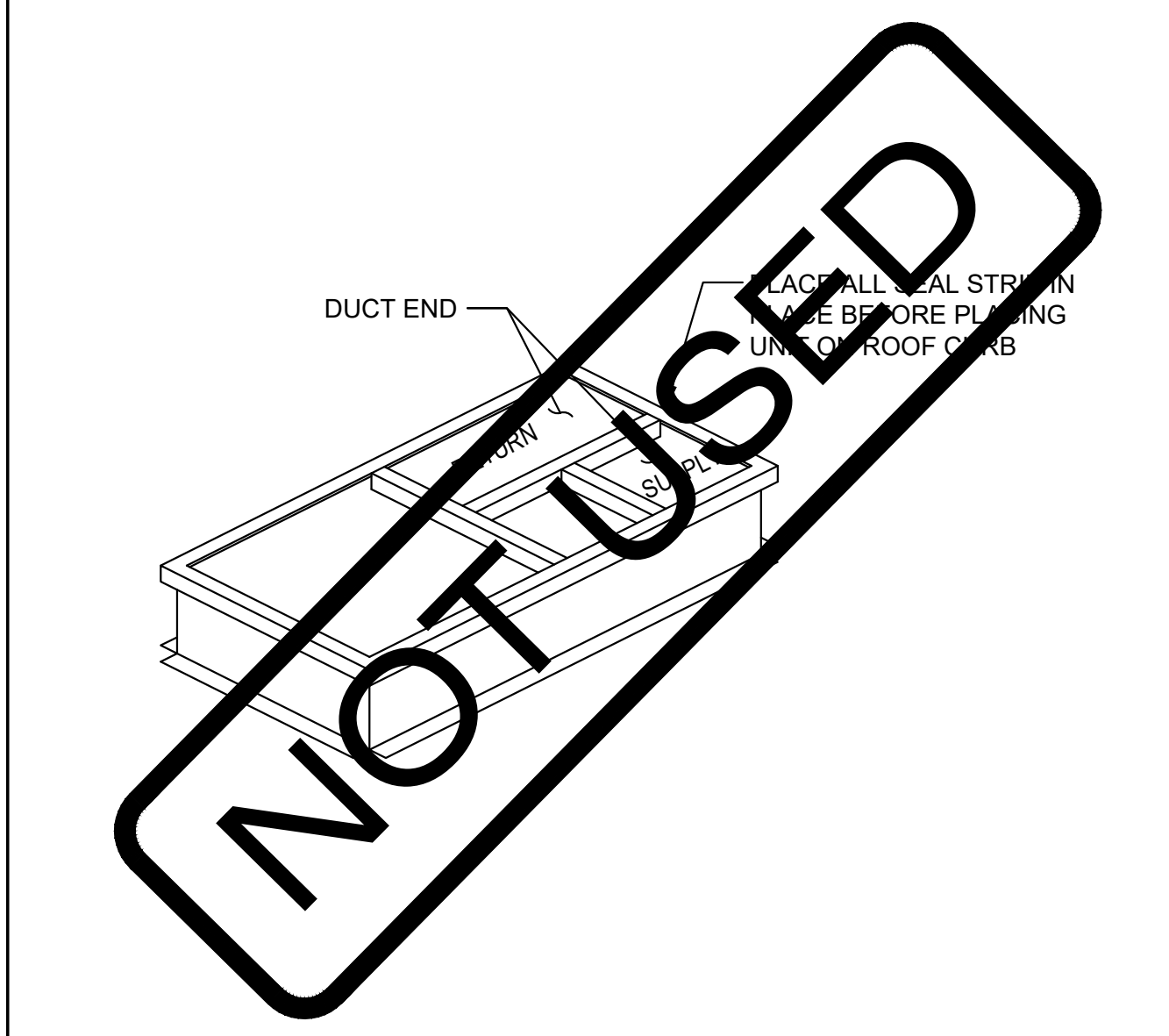
RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE C



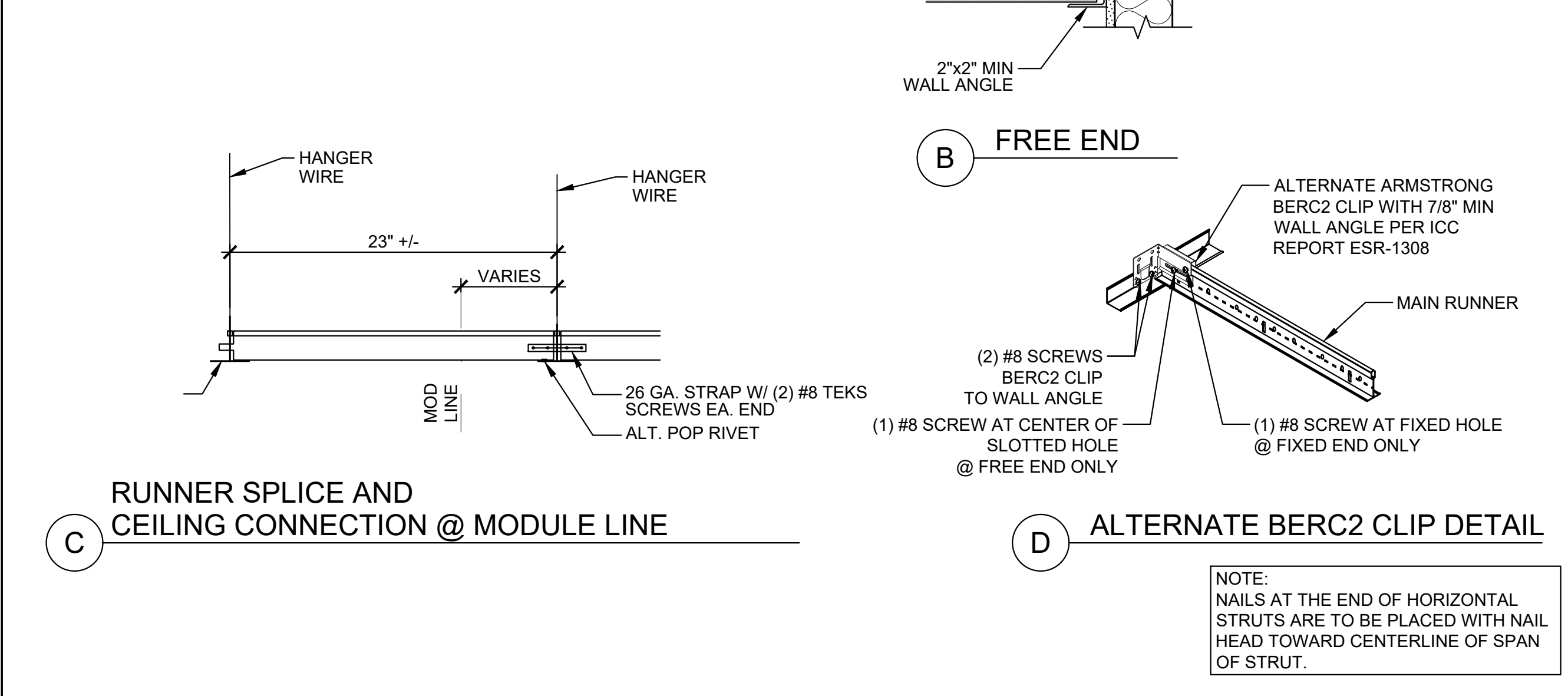
ALTERNATE BERC2 CLIP DETAIL D



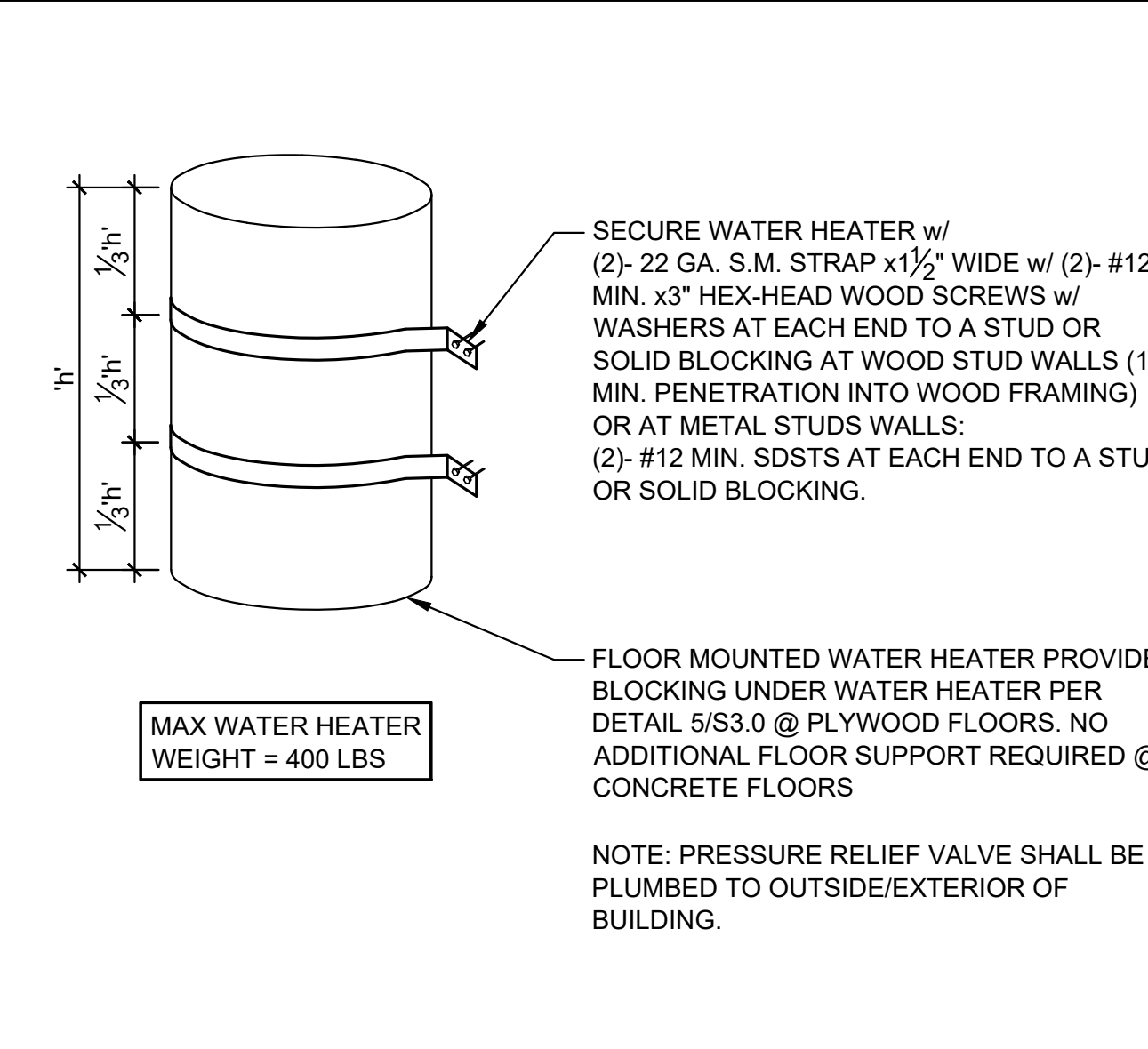
STRUT/SPLAY WIRE ASSEMBLY DETAIL NOT TO SCALE 3



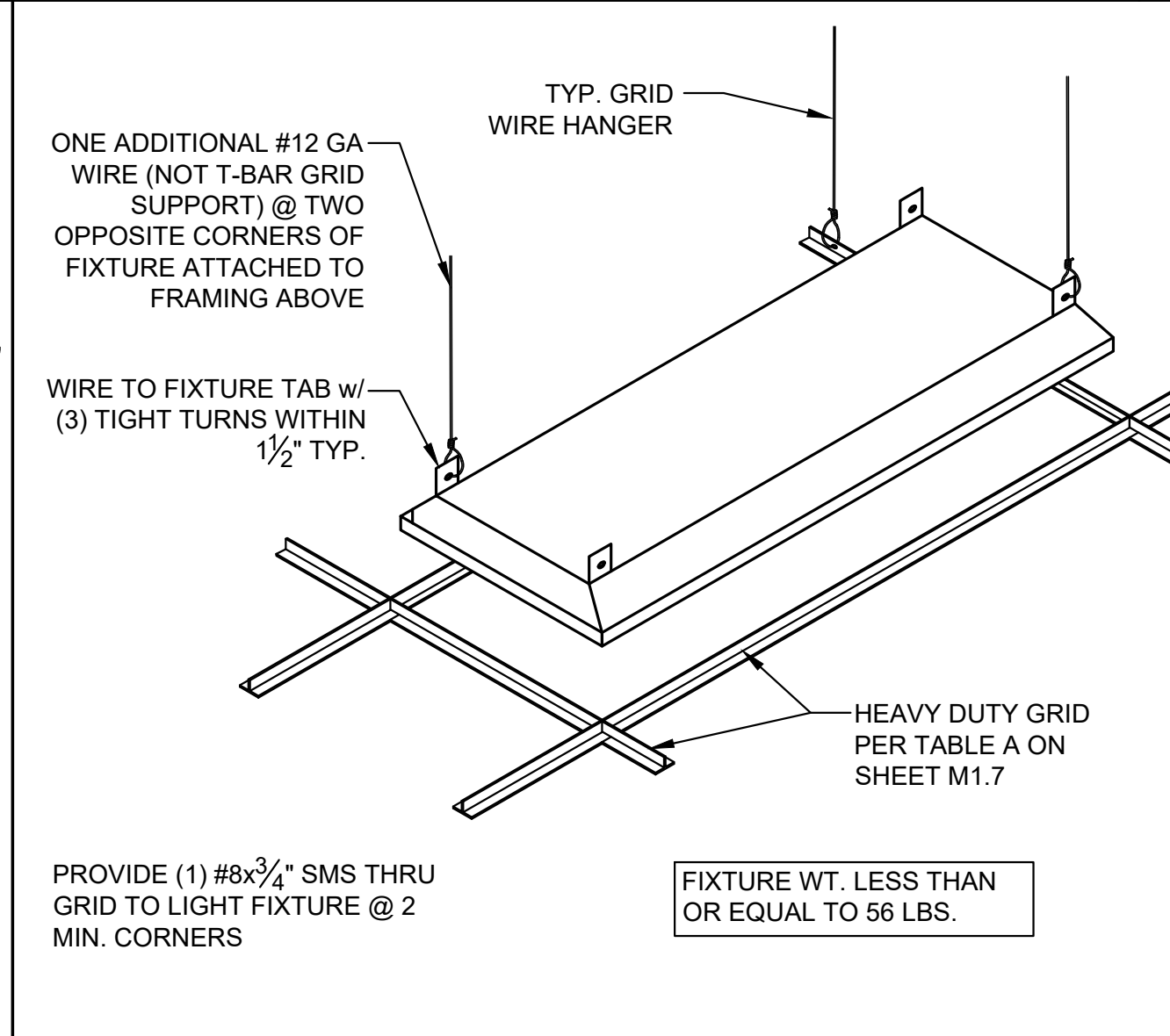
ROOF CURB SEAL DETAIL SCALE: N.T.S. 4



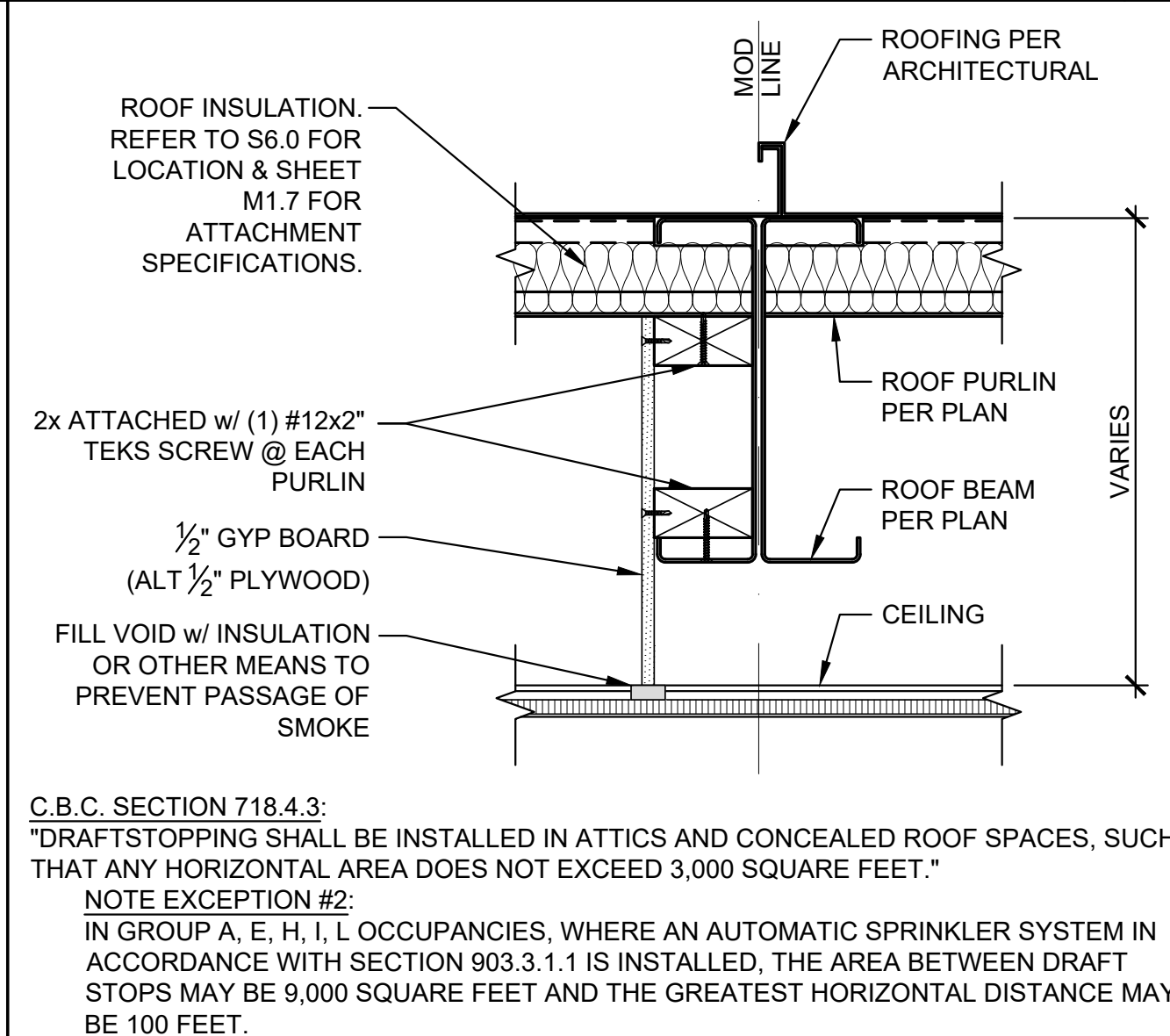
SUSPENDED CEILING ATTACHMENT DETAILS SCALE: 1-1/2" = 1'-0" 5



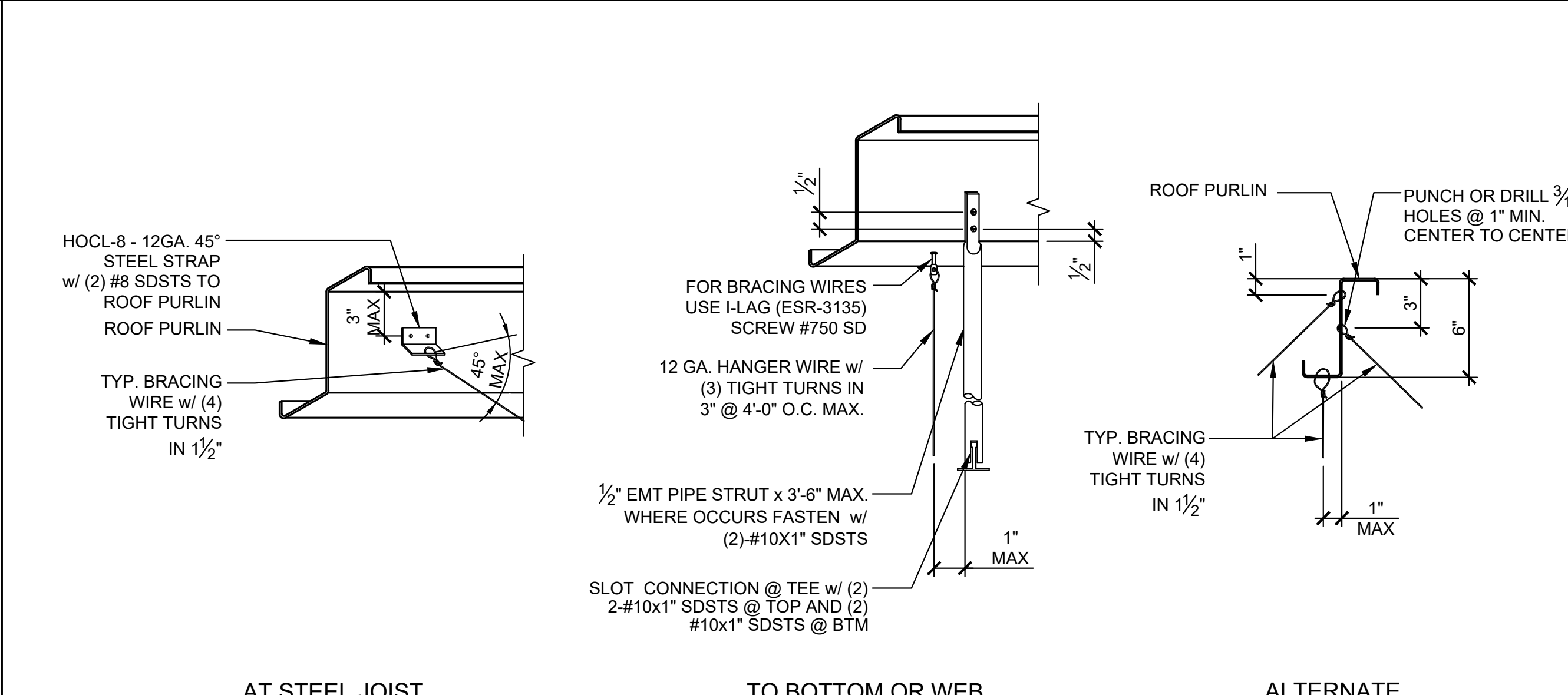
WATER HEATER STRAP DETAIL NOT TO SCALE 6



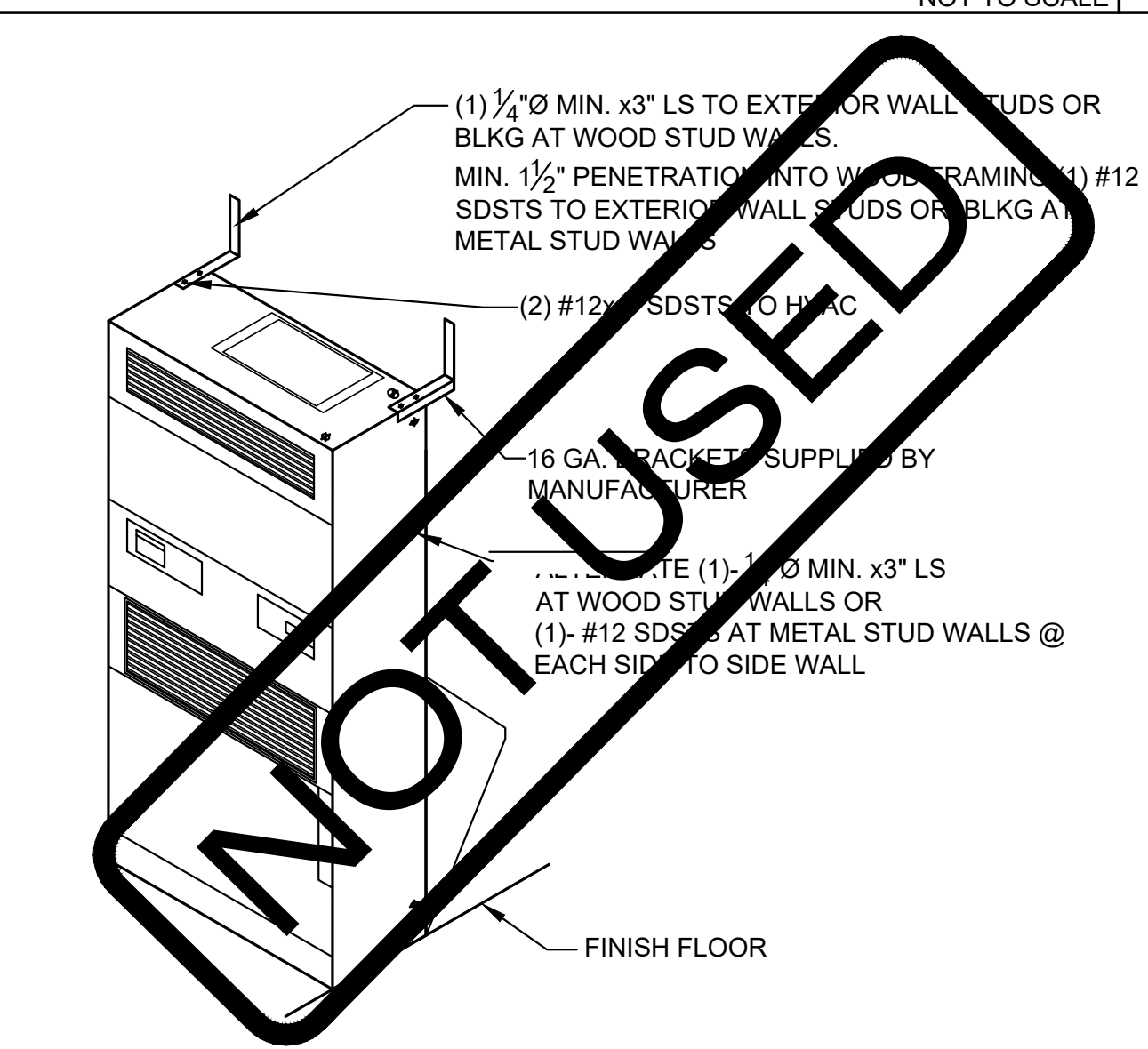
LIGHT FIXTURE ATTACHMENT NOT TO SCALE 7



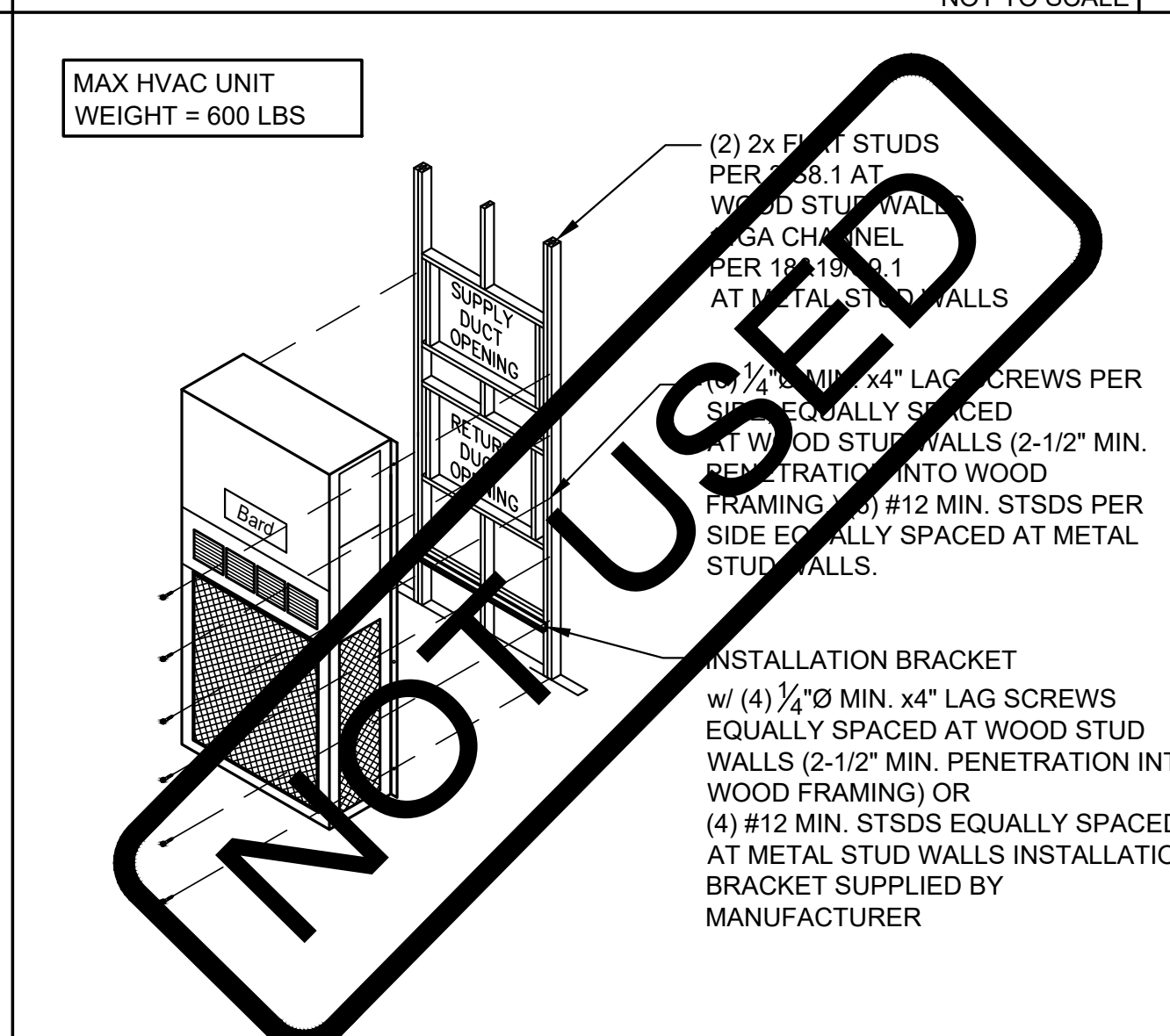
CEILING DRAFT STOP DETAIL SCALE: 1-1/2" = 1'-0" 8



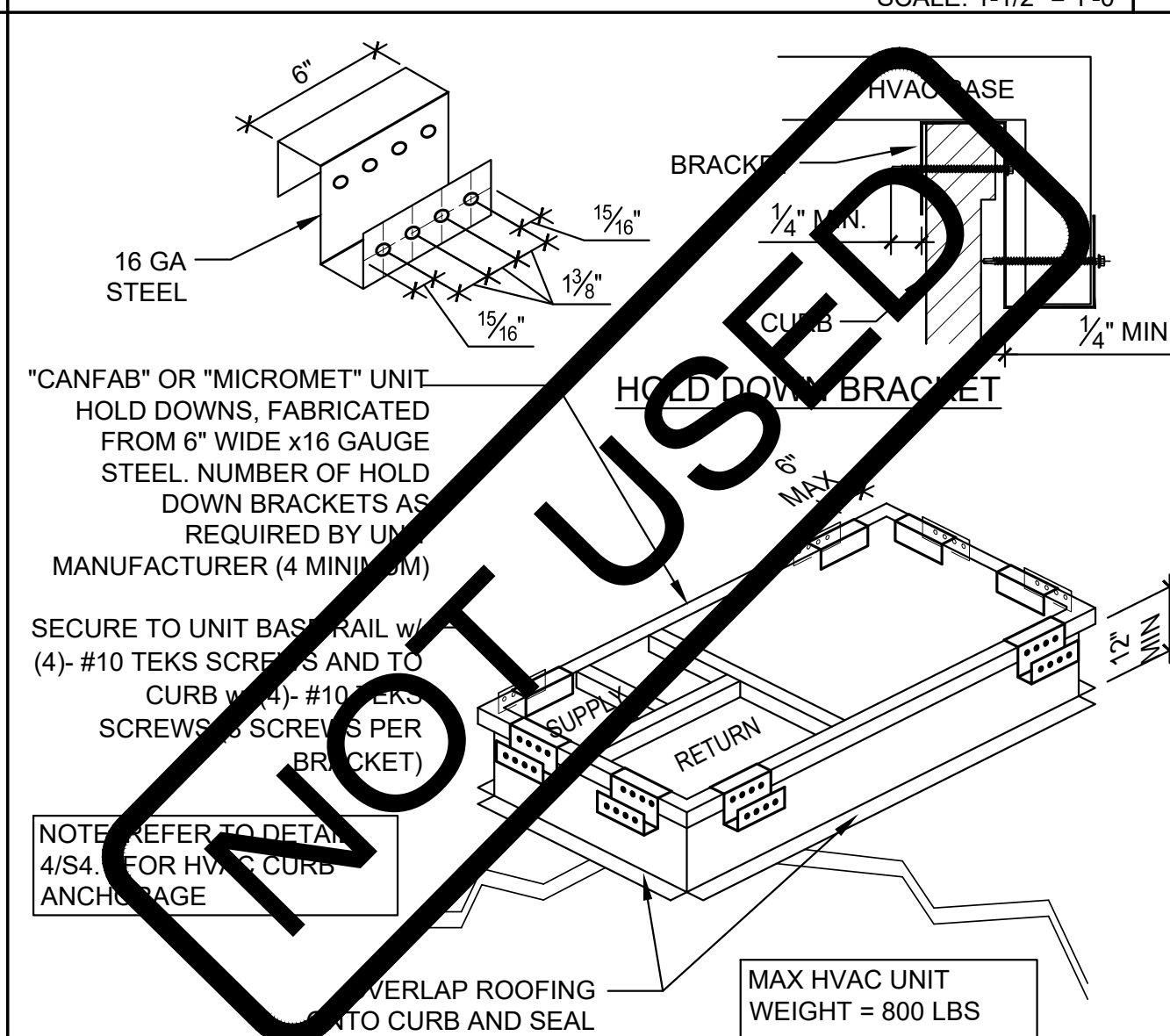
SUSPENDED CEILING TO PURLIN CONNECTION DETAILS NOT TO SCALE 12



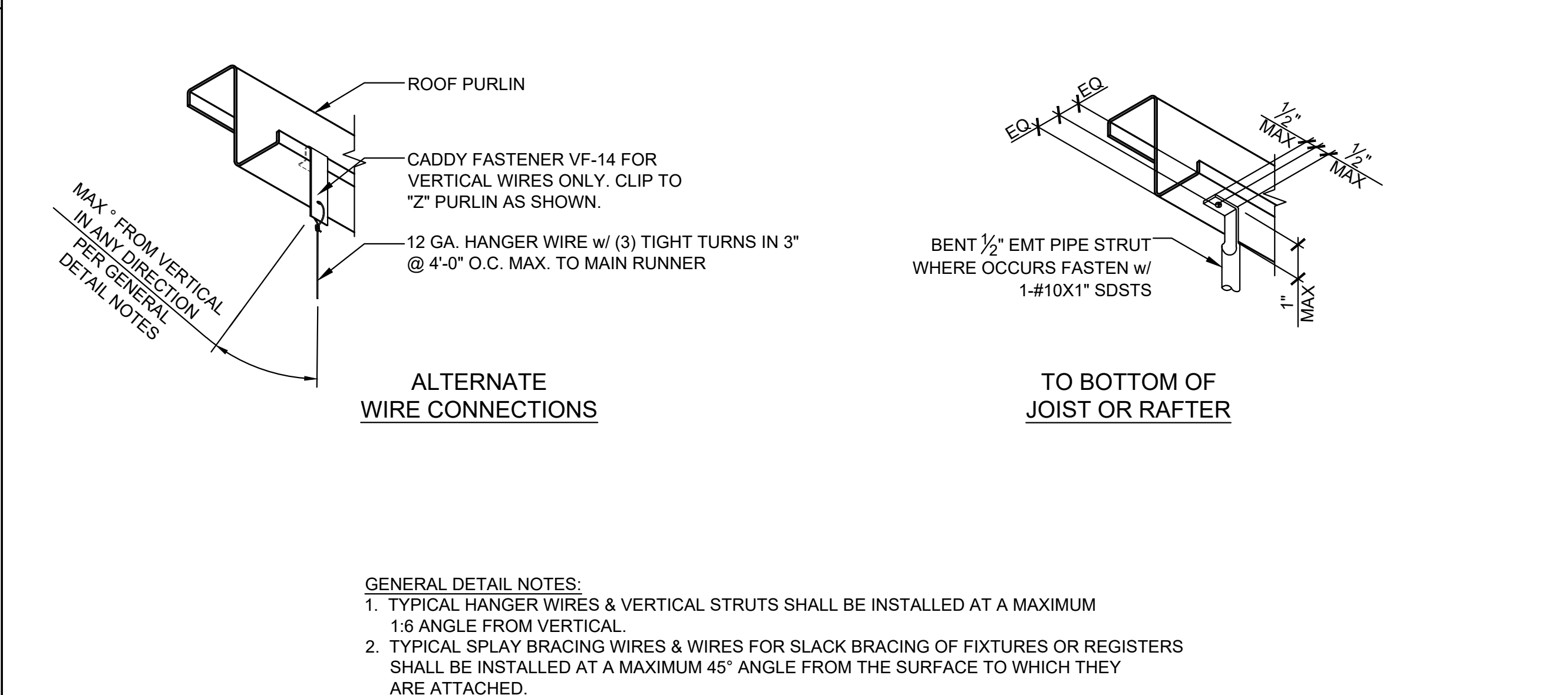
INTERIOR HVAC ANCHORAGE NOT TO SCALE 9



WALL MOUNT HVAC ANCHORAGE NOT TO SCALE 10



OPTIONAL HVAC ROOF CURB NOT TO SCALE 11



SUSPENDED CEILING TO PURLIN CONNECTION DETAILS NOT TO SCALE 12

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

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PRE-CHECKED SET NAME
 24'x40' THRU 120'x40'
 HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
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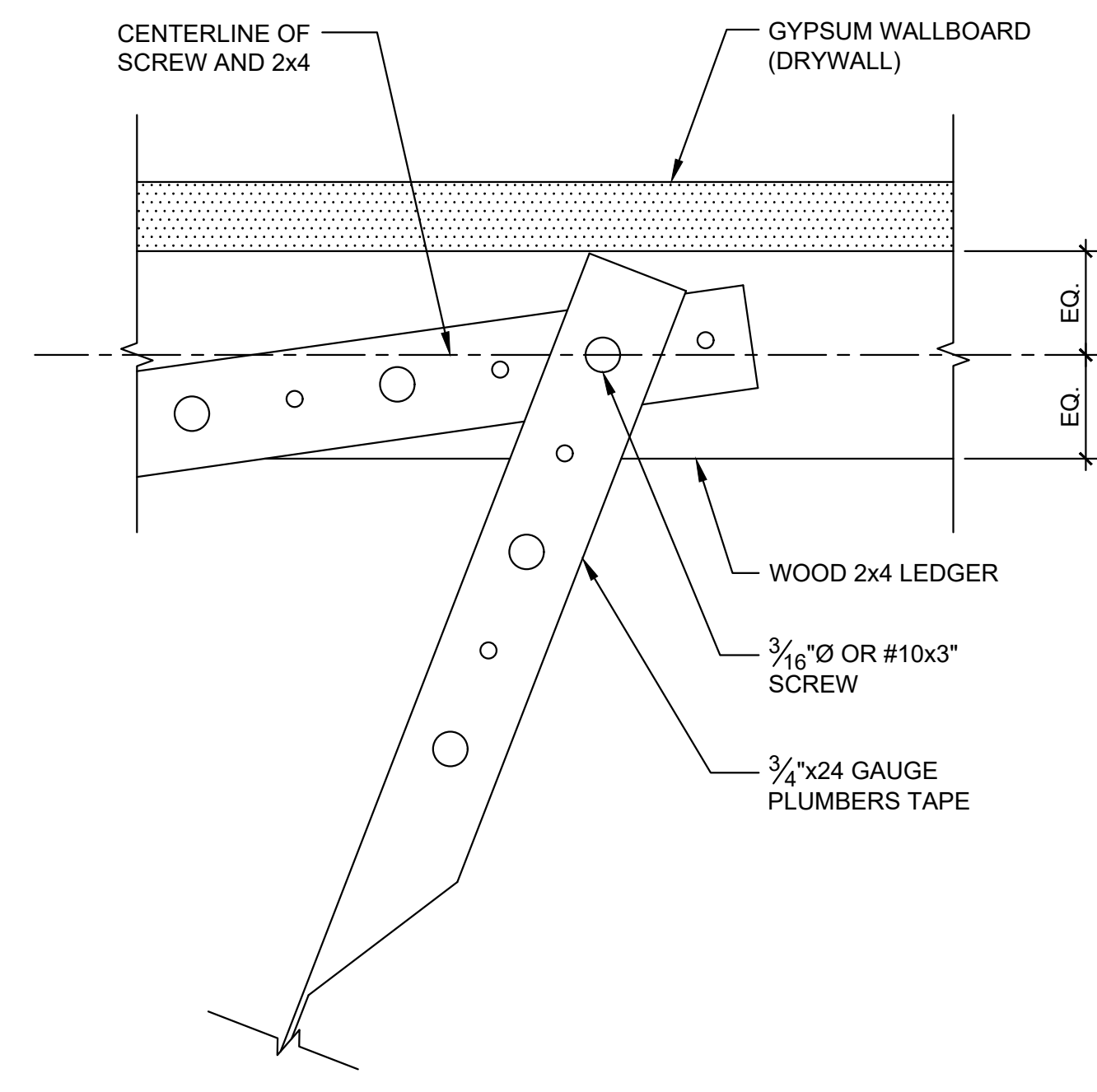
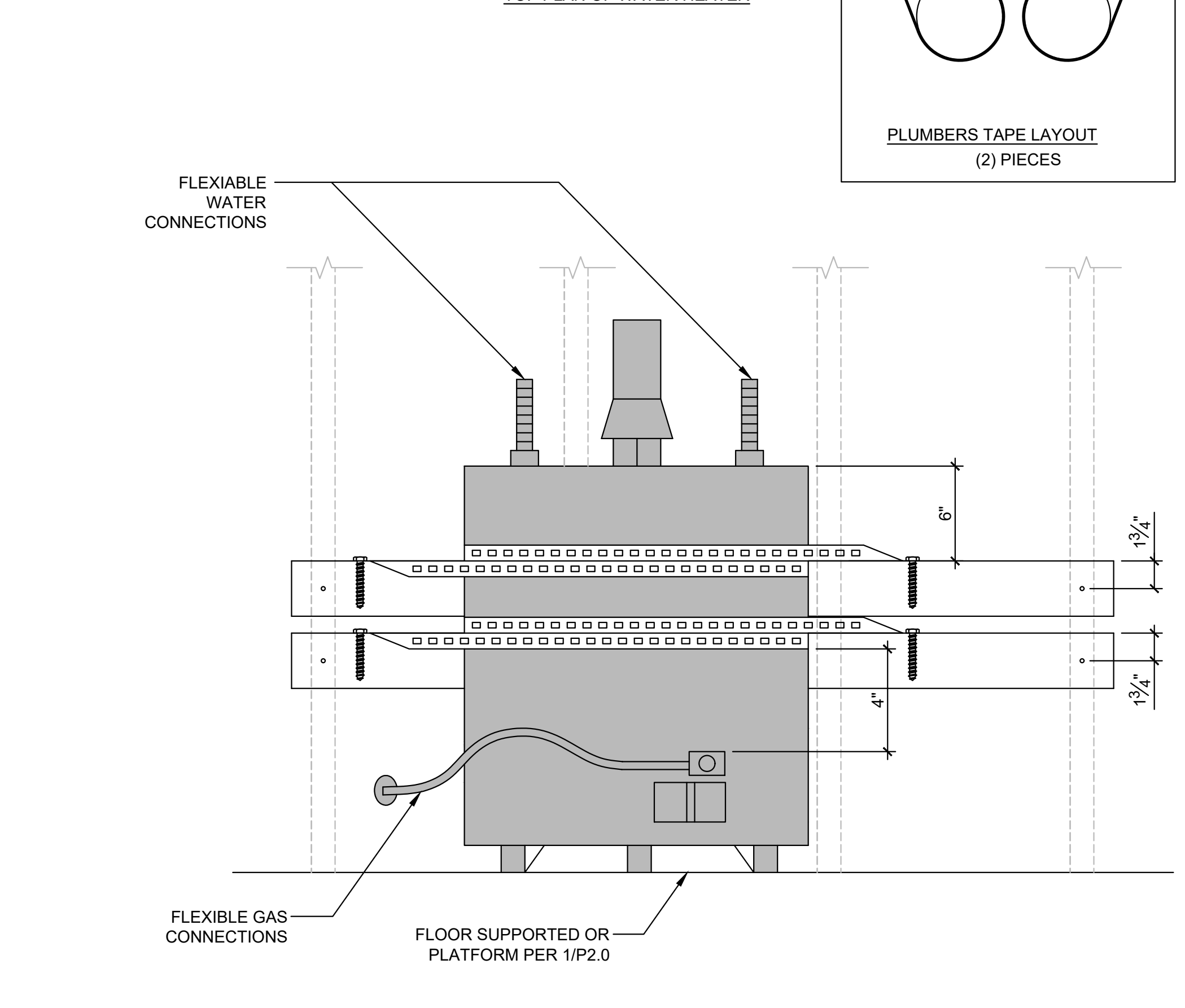
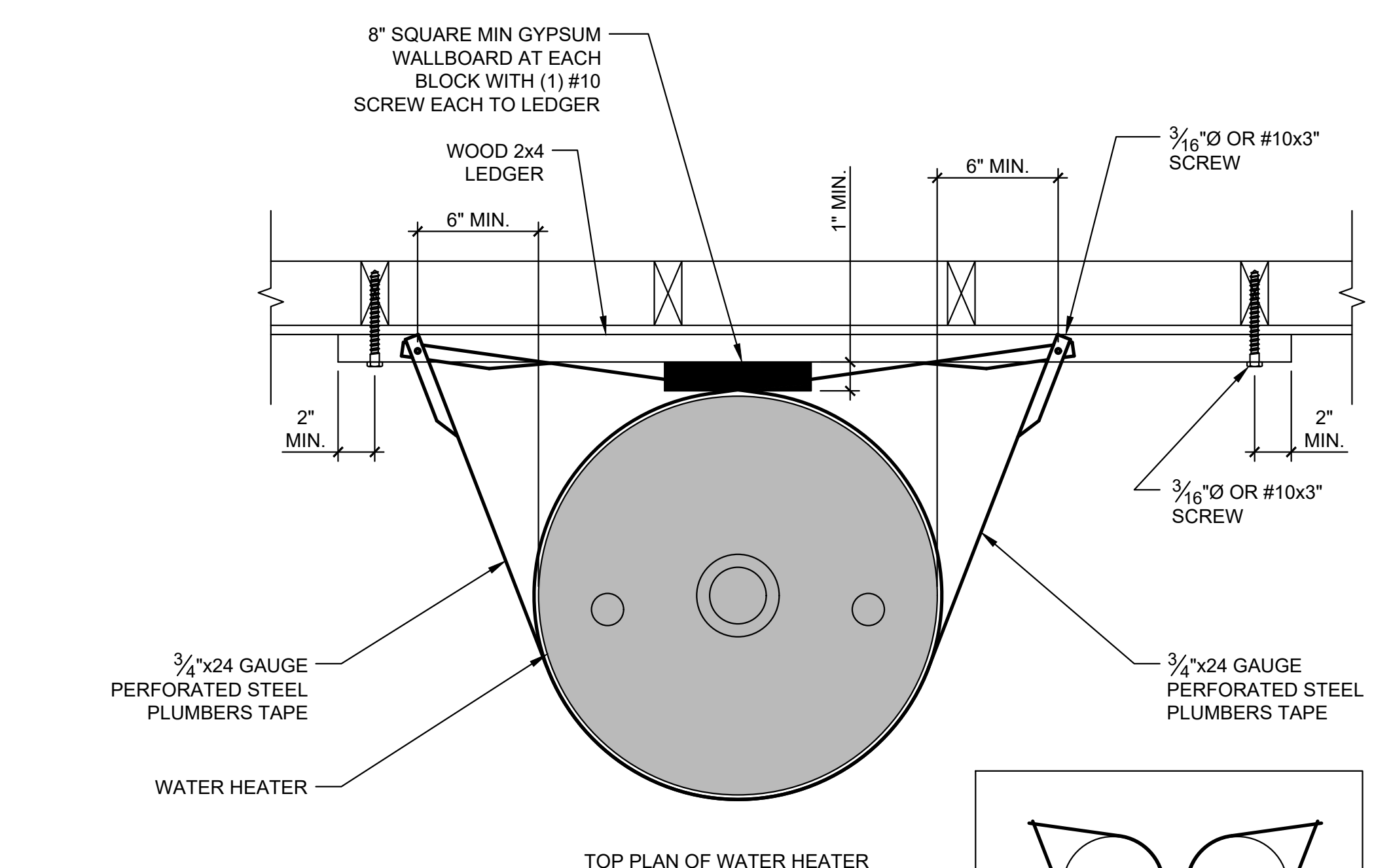
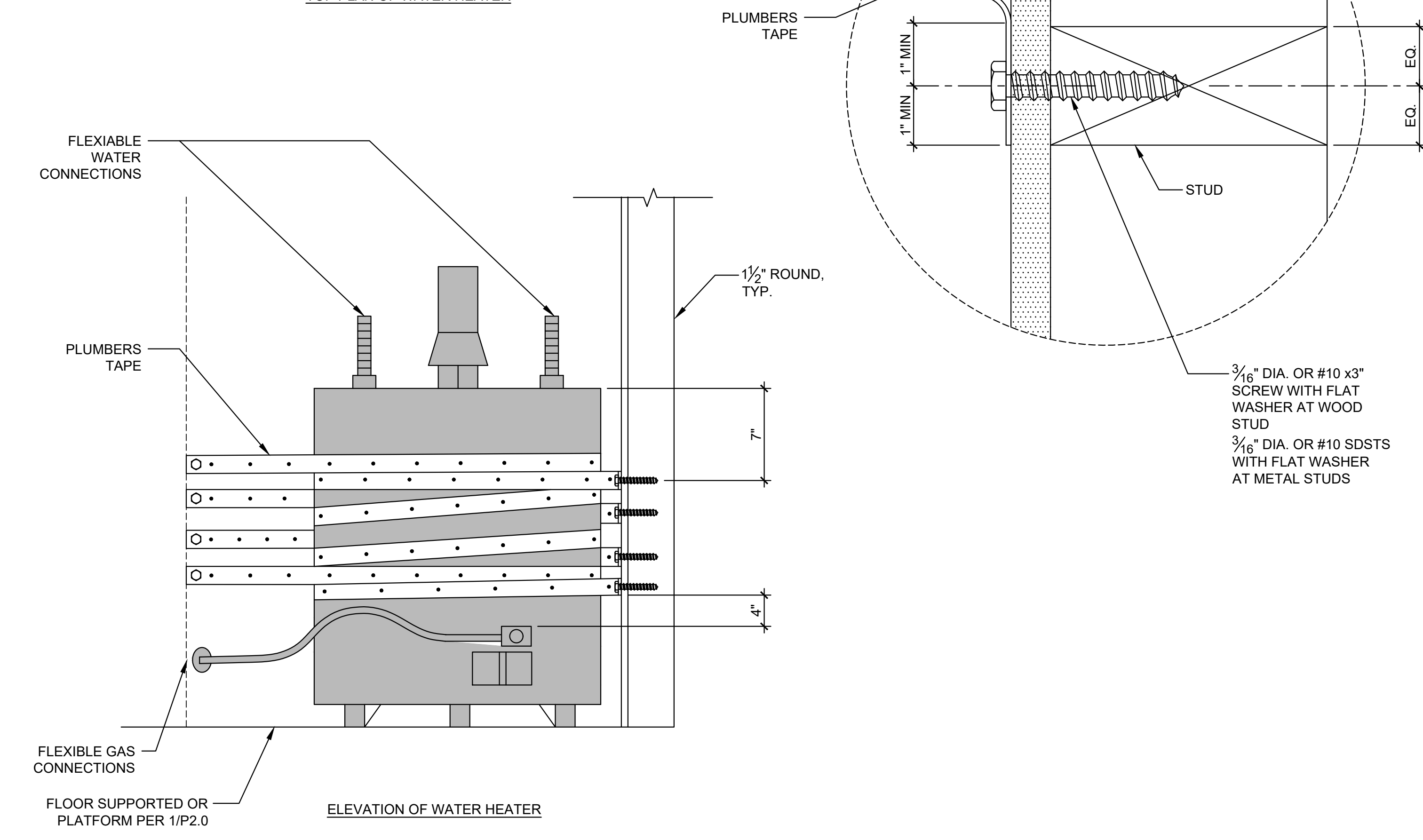
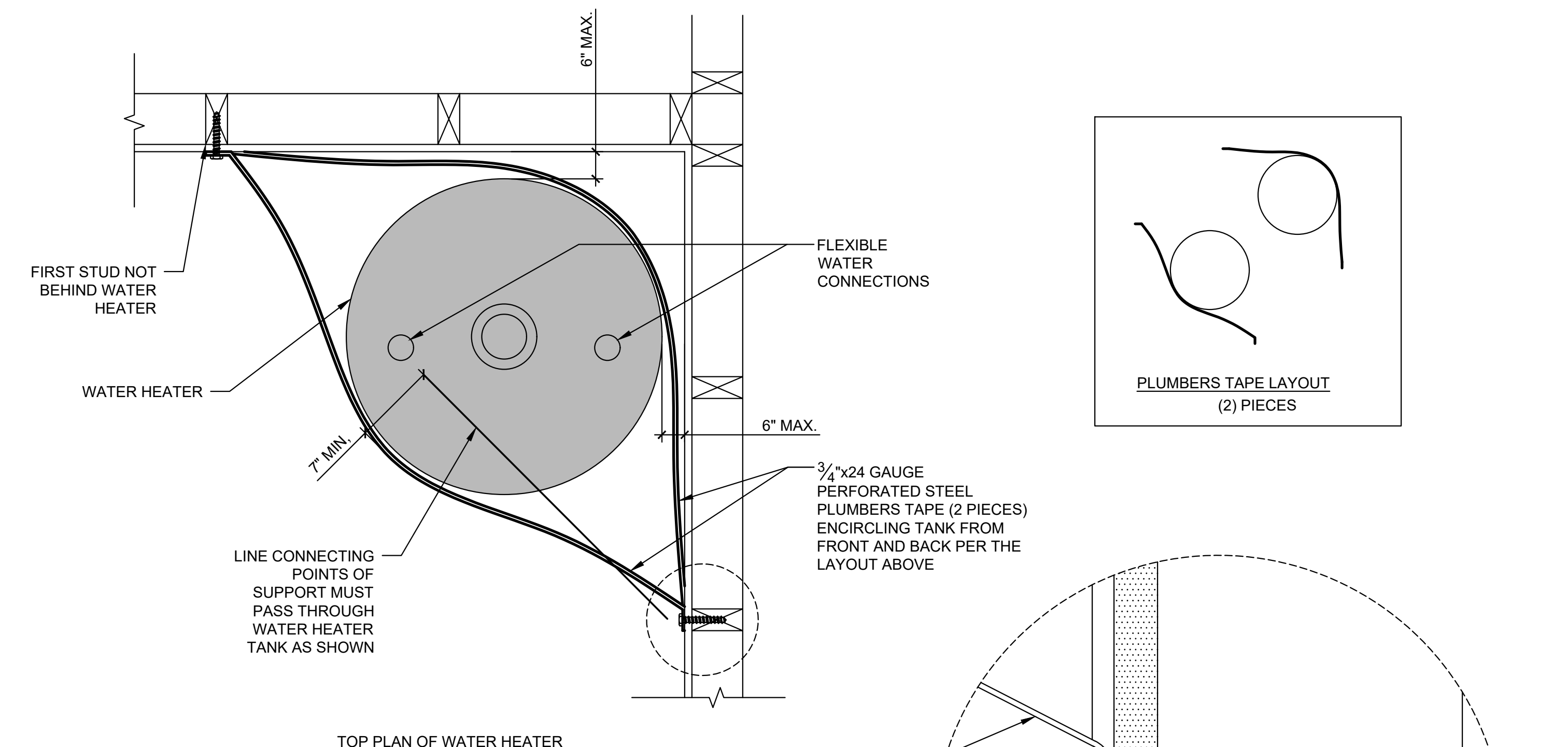
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DRAWN BY: AS NOTED
 SCALE: MM/DD/YY
 DATE: XXXX-20
 PROJECT NO:
 SHEET TITLE:

MECHANICAL AND CEILING DETAILS

SHEET NUMBER:
M1.4A



- CEILING GRID SYSTEMS IN SEISMIC ZONES D, E, F, MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.
- SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.
- WHEN HANGER AND BRACING WIRES ARE ATTACHED TO CONCRETE ABOVE, TESTS PER D.S.A. IR 25-2.13 SECTION 6.8 MUST BE PERFORMED. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT ALLOWED FOR BRACING WIRE.
- 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.
- PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.
- CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
- PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY ANGLES & SEISMIC CLIPS THAT HAVE A VALID EVALUATION REPORT.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- CEILING AREAS EXCEEDING 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPARATION JOINT.
- EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS OF CORRIDORS, LOBBIES AND OTHER SIMILAR AREAS.
- PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT ALLOWS 1 INCH OF MOVEMENT CAN BE USED.
- LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES. SPACING OF BRACING ASSEMBLIES MUST BE SHOWN ON THE PLANS.
- LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A. APPROVAL.
- COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PULL INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.
- LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.
- ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.3 OF D.S.A. IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF D.S.A. IR 25-2.13. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF D.S.A. IR 25-2.13.
- PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.
- ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS, SQUARE EDGE, ASTM FLAME SPREAD CLASS T, 24"x48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.
- THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2019 SECTION 110.2(b).

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
	W36HB	3 TON HEAT PUMP	1143	500	11	3.3	1-16
BARD WALL HUNG	W42HC	3 1/2 TON HEAT PUMP	1140	500	11	3.3	1-16
	W48HC	4 TON HEAT PUMP	854	505	11	3.3	1-16
	W60HC	4 1/2 TON HEAT PUMP	1855	515	11	3.3	1-16

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
CARRIER ROOF MOUNT	50VT-C36--3-TP	3 TON HEAT PUMP	1200	371	12.0	14.5	1-16
	50VT-C42--3-TP	3 1/2 TON HEAT PUMP	1400	412	12.0	14.5	1-16
	50VT-C48--3-TP	4 TON HEAT PUMP	1600	432	12.0	14.5	1-16
	50VT-C60--3-TP	4 1/2 TON HEAT PUMP	1750	462	12.0	14.2	1-16

HVAC CFM CHART

	MODEL #	DESCRIPTION	AIR HANDLER MODEL # (INTERIOR OR ATTIC MOUNTED)	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
CARRIER SPLIT DX SYSTEM	25HCE436A003	3 TON HEAT PUMP	FX4DN03	200	157	11.5	14.0	1-16
	25HCE442A003	3 1/2 TON HEAT PUMP	FX4DN04	400	157	11.5	14.0	1-16
	25HCE448A003	4 TON HEAT PUMP	FX4DN05	160	185	11.5	14.0	1-16
	25HCE460A003	4 1/2 TON HEAT PUMP	FX4DN061	2000	201	11.5	14.0	1-16

HVAC SCHEDULE

BUILDING SIZE	# OF HVAC CLIMATE ZONE 14				# OF HVAC CLIMATE ZONE 15				# OF HVAC CLIMATE ZONE 16			
	3 TON HVAC	3 1/2 TON HVAC	4 TON HVAC	4 1/2 TON HVAC	3 TON HVAC	3 1/2 TON HVAC	4 TON HVAC	4 1/2 TON HVAC	3 TON HVAC	3 1/2 TON HVAC	4 TON HVAC	4 1/2 TON HVAC
	24'x40'	1				1				1		
36'x40'		1			1					1		
48'x40'	2				2				2			
60'x40'		2				2				2		
72'x40'	3				3				3			
84'x40'		3				3				3		
96'x40'	4				4				4			
108'x40'		4				4				4		
120'x40'	5				5				5			

MINIMUM INSULATION SCHEDULE

ZONE	WALL	ROOF		FLOORS (NON-CONCRETE)	CONCRETE FLOORS
		BATTS	RIGID		
1-2	"R-13	"R-10	R-10	R-13	N/A
3-15	"R-13	"R-19	R-5	R-13	N/A
16	"R-13	"R-19	R-15	R-13	N/A

* IN ADDITION TO R-13 BATT INSULATION, R-4 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS
 ** SECURED w/ 22 GA WIRE @ 16" O.C.

ADDITION HVAC NOTE:
 MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e)
 ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

TABLE A - HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	ICBO ER REPORT
DONN/USG	DX-26	DX-424	DX-216	N/A	ICC-ESR-1222
ARMSTRONG	7301	XL7341	XL8320	N/A	ICC-ESR-1308
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A	ICC-ESR-2631

NOTE: ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

- HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.
 - THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER.
 - THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.
- DUCTWORK
 - CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.
 - NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
 - DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.
 - SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.
 - FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1
- AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
- SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM. 12" ROUND, 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTANTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
- REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
 - AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
 - 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
 - KEY BOARD LOCKOUT SWITCH.
 - PROGRAMMABLE DISPLAY.
 - 2-HOUR OVERRIDE MINIMUM.
 - STATUS INDICATED LED'S.
 - BATTERY BACKUP.
 - PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX. (WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)
- THERMAL INSULATION
 - ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
 - WALLS INSULATION: R-13 KRAFT FACED. (R-5 INSULATION OVER METAL FRAMED WALLS)
 - NON-CONCRETE FLOORS INSULATION: R-13
 - CONCRETE FLOORS INSULATION: N/A
 - FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
- FACTORY-MADE AIR DUCTS
 - FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
 - EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
 - DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
 - SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
 - SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
 - SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.
- FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
 - AT THE CEILING AND FLOOR LEVELS;
 - AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. REFERENCE 2019 CBC SECTION 718.
- THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
- HVAC FILTER
 - FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND 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. PER 2019 CEC SECTION 5.504.5.3.
 - INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CBC SECTION 5.504.5.3.1
- ROOF MOUNTED HVAC
 - A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND DUCTS.
- HVAC CONTROLS
 - THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(c)1.
- UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

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 DIV. OF THE STATE ARCHITECT
 APP: 03-122206 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/29/2022



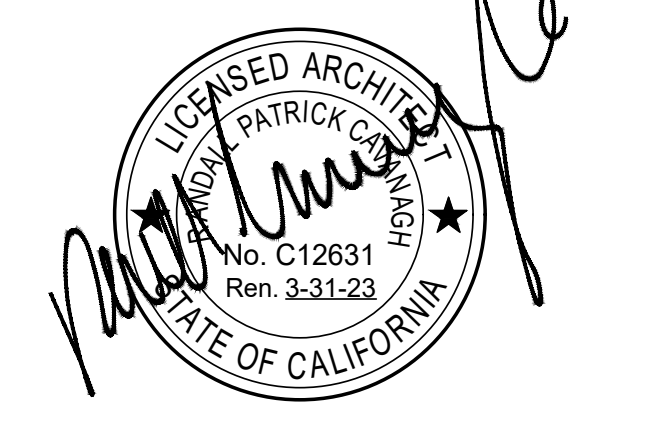
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PRE-CHECKED SET NAME
 24'x40' THRU 120'x40'
 HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)

SITE SPECIFIC PROJECT NAME
 .
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2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
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REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: AS NOTED
 SCALE: MM/DD/YY
 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE: CEILING & MECHANICAL NOTES & SCHEDULES
 SHEET NUMBER: M1.7



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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
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2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
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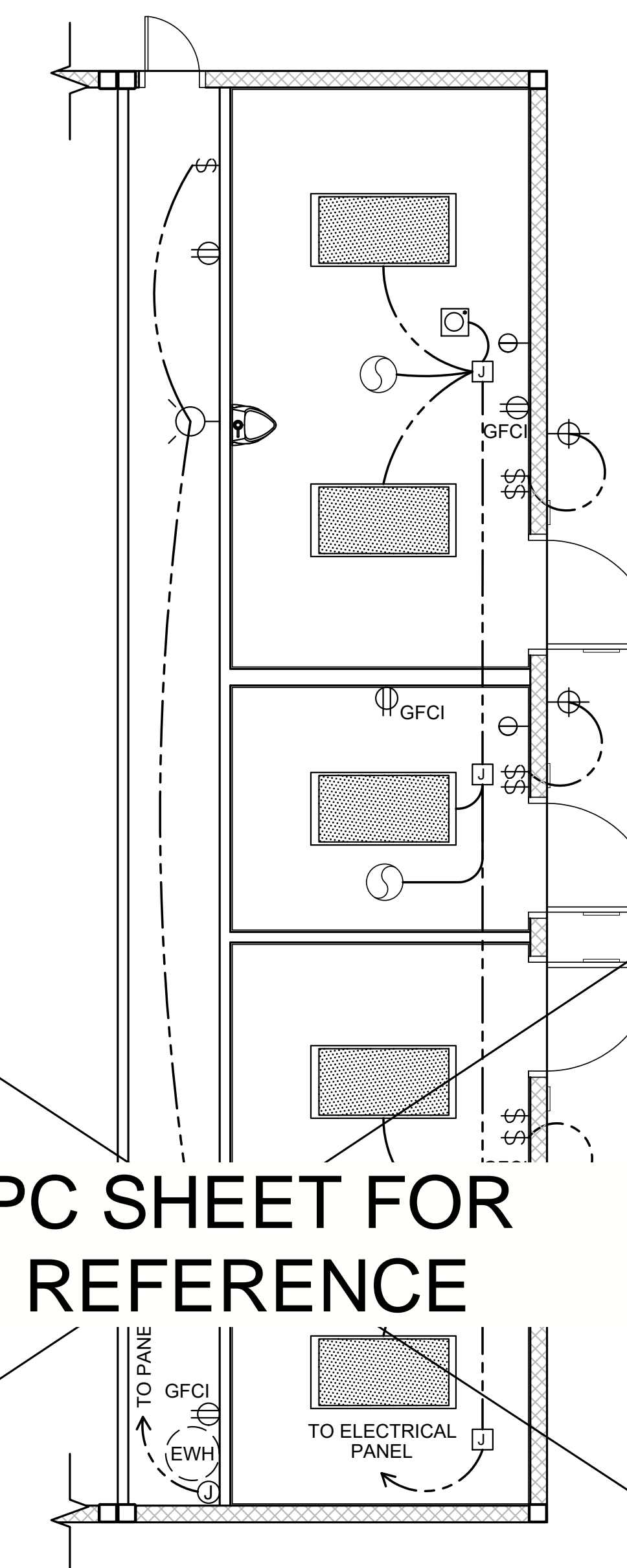
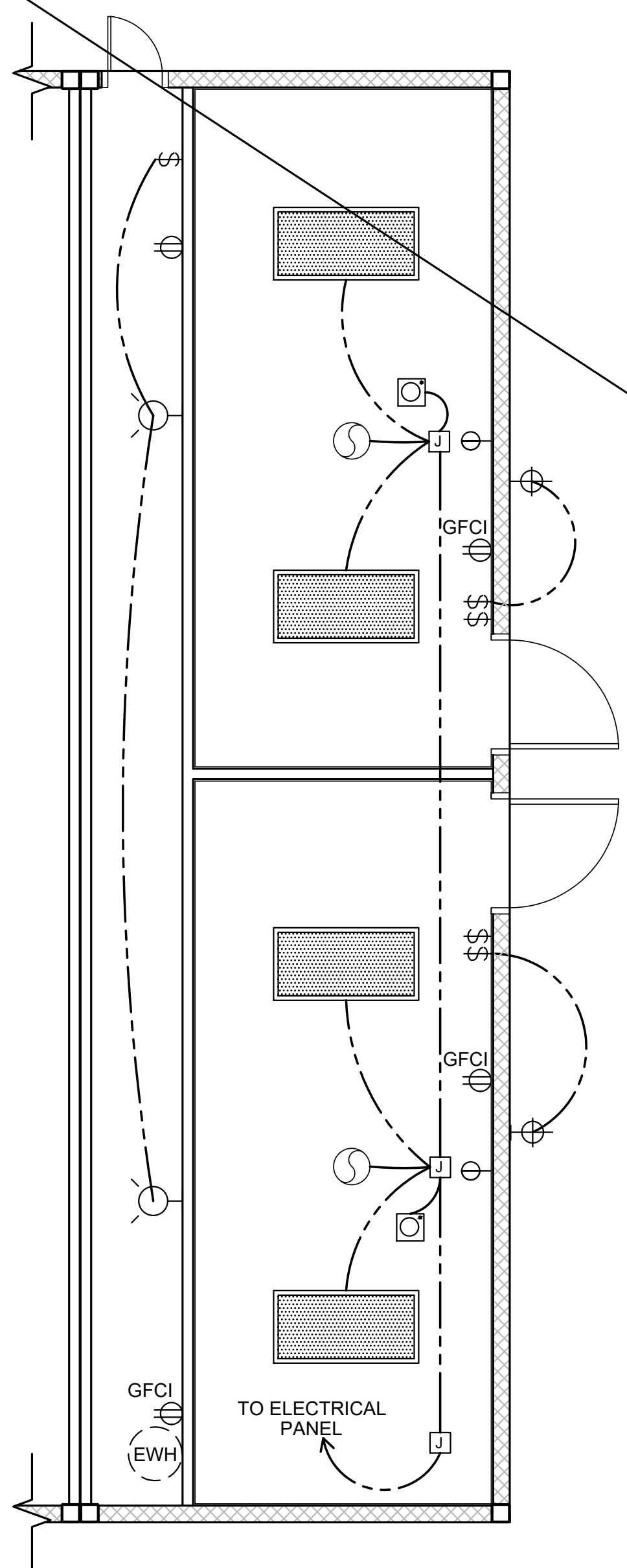
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 SHEET TITLE:

RESTROOM OPTIONS
ELECTRICAL PLANS

SHEET NUMBER:
E1.1

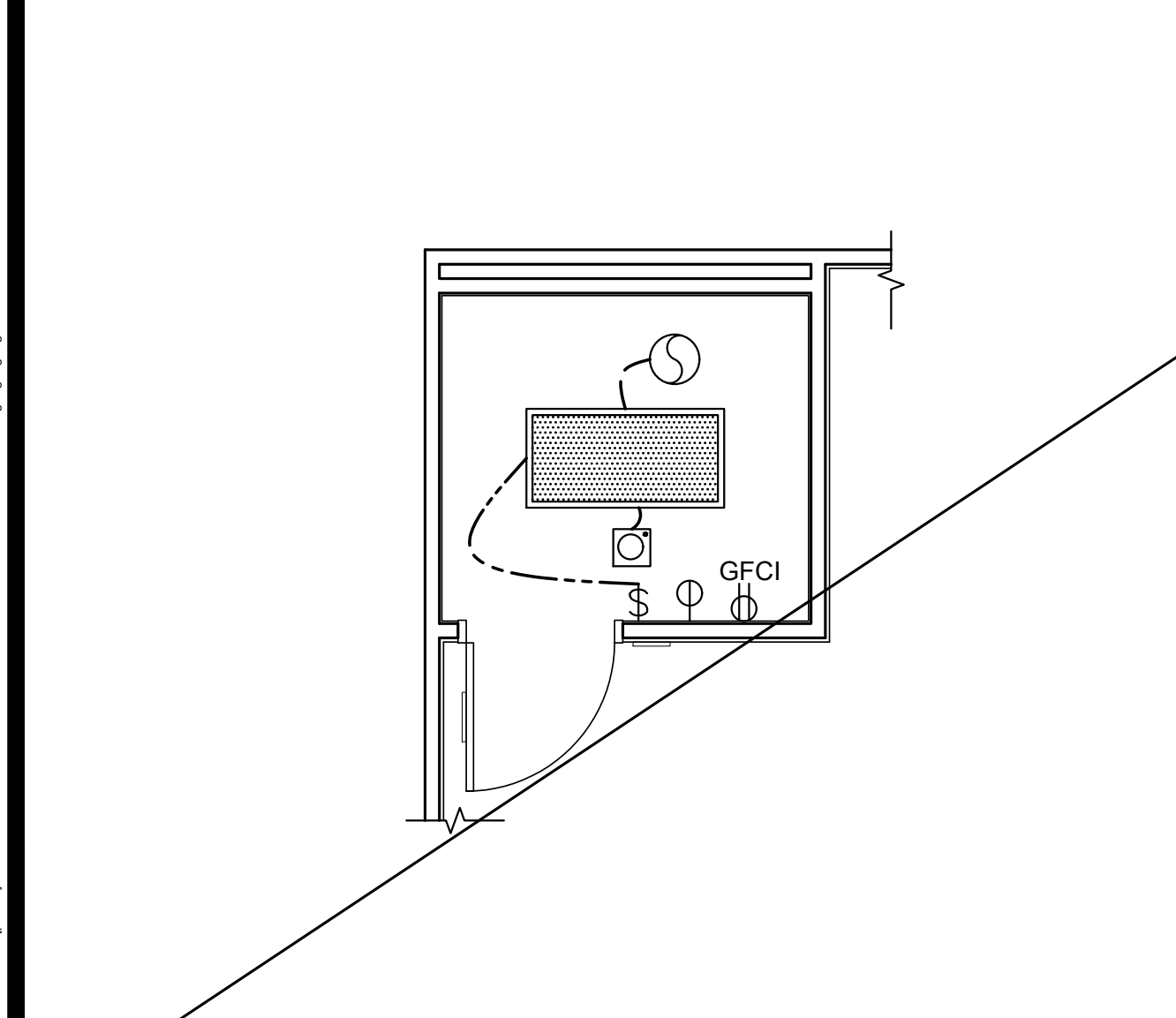
- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE MODEL: 9850-LED, 10W MAX
- ⊕ EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- ⊙ EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BSH2X7LED-50 LOW PROFILE CANOPY, LED OR EQUAL (MAX 16W)
- ⊕ UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- ⊕ CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- ⊕ COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- ⊕ FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE - U.O.N.
- ⊕ WP/GFCI WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- ⊕ GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- ⊕ CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ⊕ SINGLE POLE SOLA-TUBE SWITCH - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- ⊕ SPRING WOUND COUNTDOWN TIMER, 125-277 VAC, 50/60 HZ, DSPT, 60 MINUTE MAX, ITEM FD460MW OR EQUAL. - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- ⊕ SWITCH SUBSCRIPTS - a=DEVICE CONTROLLED.
- ⊕ THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F.
- ⊕ JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS NOTED
- ⊕ ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING - #1-4"x1", #22-4"x2"
- ⊕ CLOCK/SPEAKER COMBO - MOUNT @ +90" A.F.F. TO CENTERLINE - U.O.N. - DEVICE BY OTHERS
- ⊕ SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +84" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- ▽ DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ▽ CATV CATV OUTLET - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - (1) 3/4" DIA CONDUIT - STUBBED ABOVE CEILING - DEVICES BY OTHERS
- ▽ INTERCOM/TELEPHONE - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT TOP OF BOX @ +48" A.F.F. U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ⊕ SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX w/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ⊕ DOOR CONTACT - PROVIDE (1) EMPTY 1/2" DIA EMT THROUGH DOOR HEADER - STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ⊕ MOTION SENSOR OUTLET - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING
- ⊕ ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)
- ⊕ FIRE ALARM PULL STATION - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - TOP OF OPERATING HANDLE MOUNTED BETWEEN +42" TO +48" A.F.F. - DEVICE BY OTHERS
- ▽ FIRE ALARM HORN - OUTLET ONLY - 4" SQ. SINGLE GANG J-BOX WITH BLANK WEATHERPROOF COVER - MOUNTED +90" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- ▽ MIN/HORN BOX - OUTLET ONLY - SINGLE DEVICE RING AND COVER - MOUNTED +80" A.F.F. TO CENTERLINE BUT NO GREATER THAN +96" - DEVICE BY OTHERS
- ⊕ VISUAL FIRE ALARM ALARM - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT SO THAT LENS IS BETWEEN 80"-96" A.F.F. (CEILING MOUNT PER NFPA72 TABLE 6.4.4.1(b)) - DEVICES BY OTHERS.
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3169K LUMENS - 30 WATTS MAX OR EQUAL
- 24 HOUR EMERGENCY LIGHTING WITH MINIMUM 90-MINUTE BATTERY BACK-UP - WHERE TWO OR MORE EXITS ARE REQUIRED
- ⊕ EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED.
- ⊕ EXTERIOR SOFFIT MOUNTED LIGHTING PER MODEL ABOVE WITH EMERGENCY 90 MIN. MINIMUM BATTERY BACK-UP, PROVIDE (1) BY THE STAIR LANDINGS.



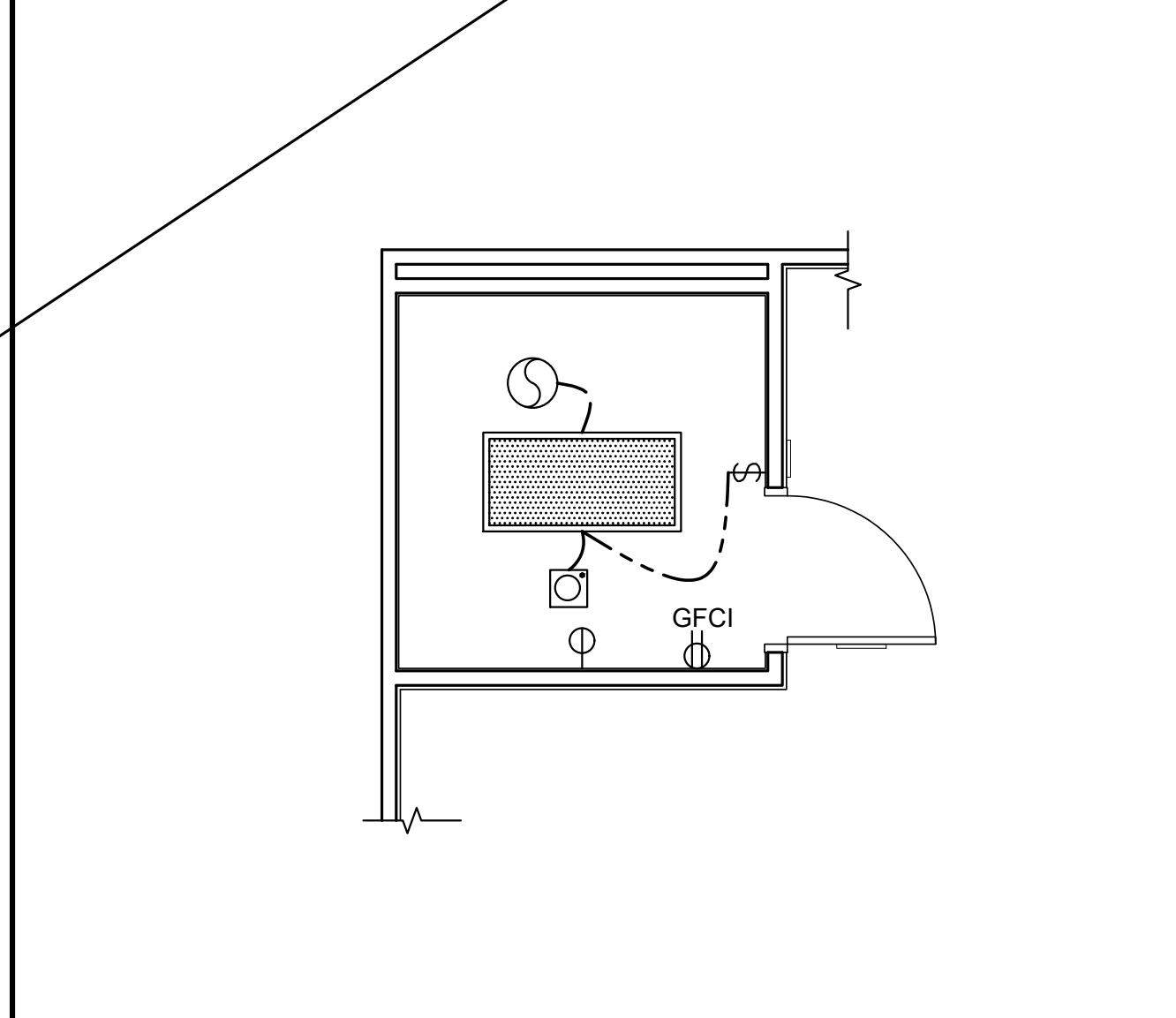
PC SHEET FOR REFERENCE

BOYS & GIRLS R.R. PLAN
 SCALE: 1/4" = 1'-0"

BOYS & GIRLS & STAFF R.R. PLAN
 SCALE: 1/4" = 1'-0"



SINGLE TOILET PLAN - FRONT APPROACH OPTION
 SCALE: 1/4" = 1'-0"



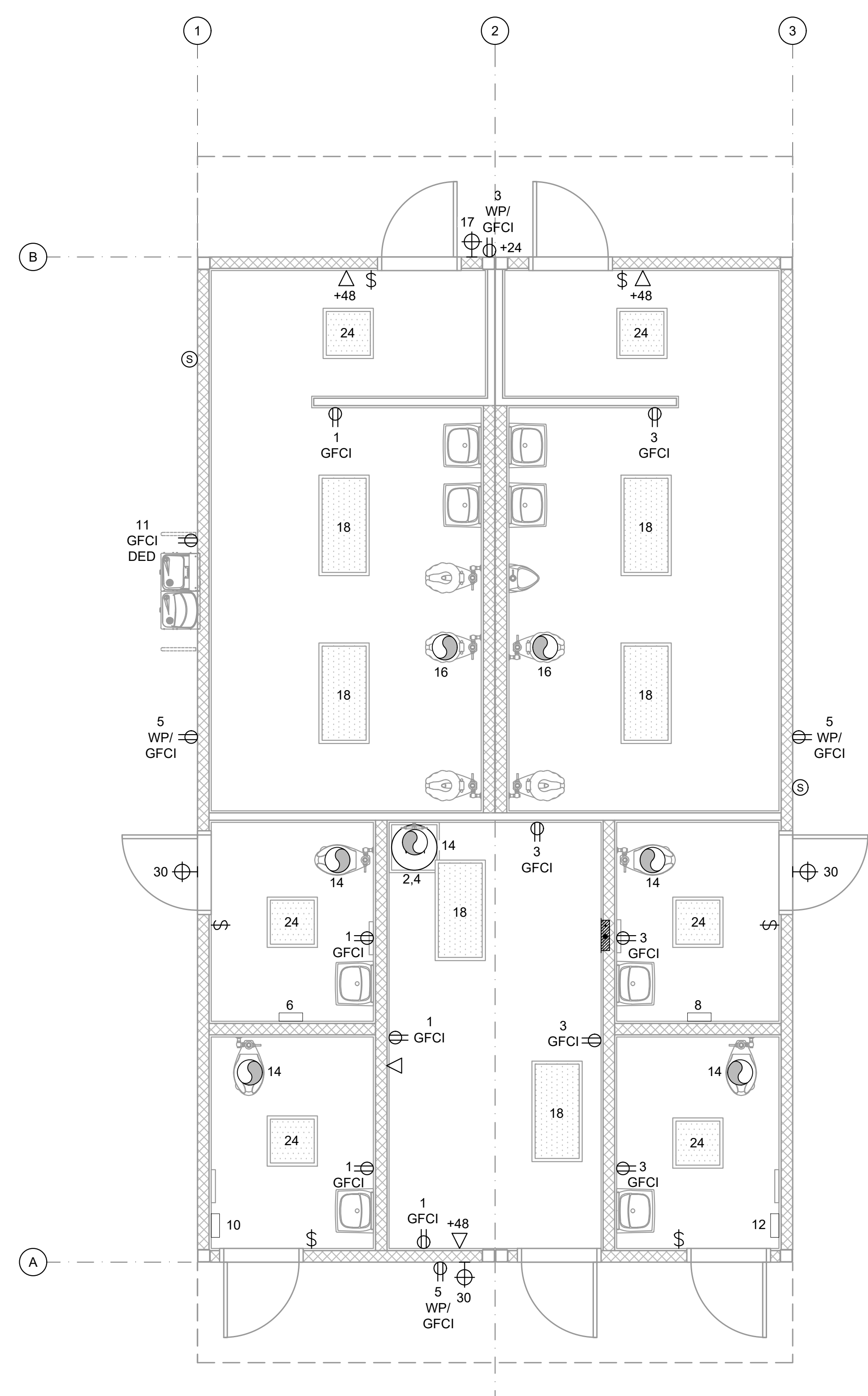
SINGLE TOILET PLAN - SIDE APPROACH OPTION
 SCALE: 1/4" = 1'-0"

- THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
- ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
- PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
- SEE PLANS FOR LOCATIONS OF ALL DEVICES.
- STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
- STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
- THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
- FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

- LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.
- DEMAND RESPONSE CONTROLS**
- DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
 - DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
 - DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
 - SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-01-E TO DSA (BY OTHERS).

GENERAL NOTES

STANDARD ELECTRICAL SYMBOLS



- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +108" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL
- EMERGENCY EXIT LIGHT - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED.

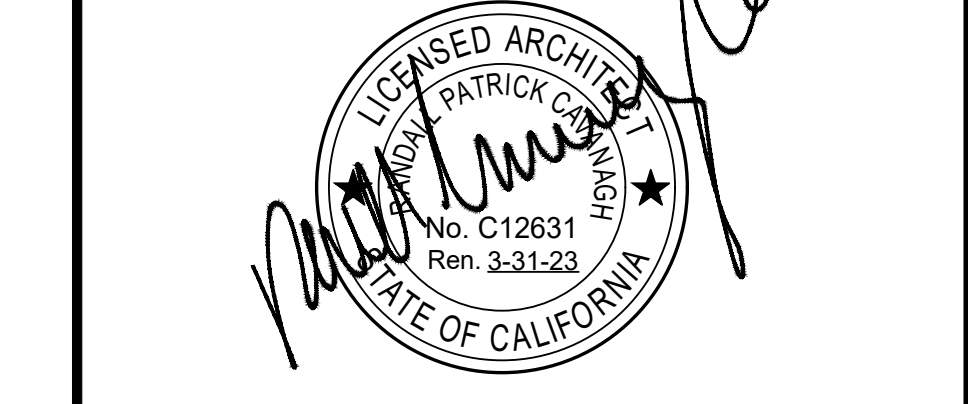


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)

SITE SPECIFIC PROJECT NAME
ROWLAND USD
HOLLINGWORTH ES
(1) 24' x 40' RESTROOM

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC



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REVISIONS

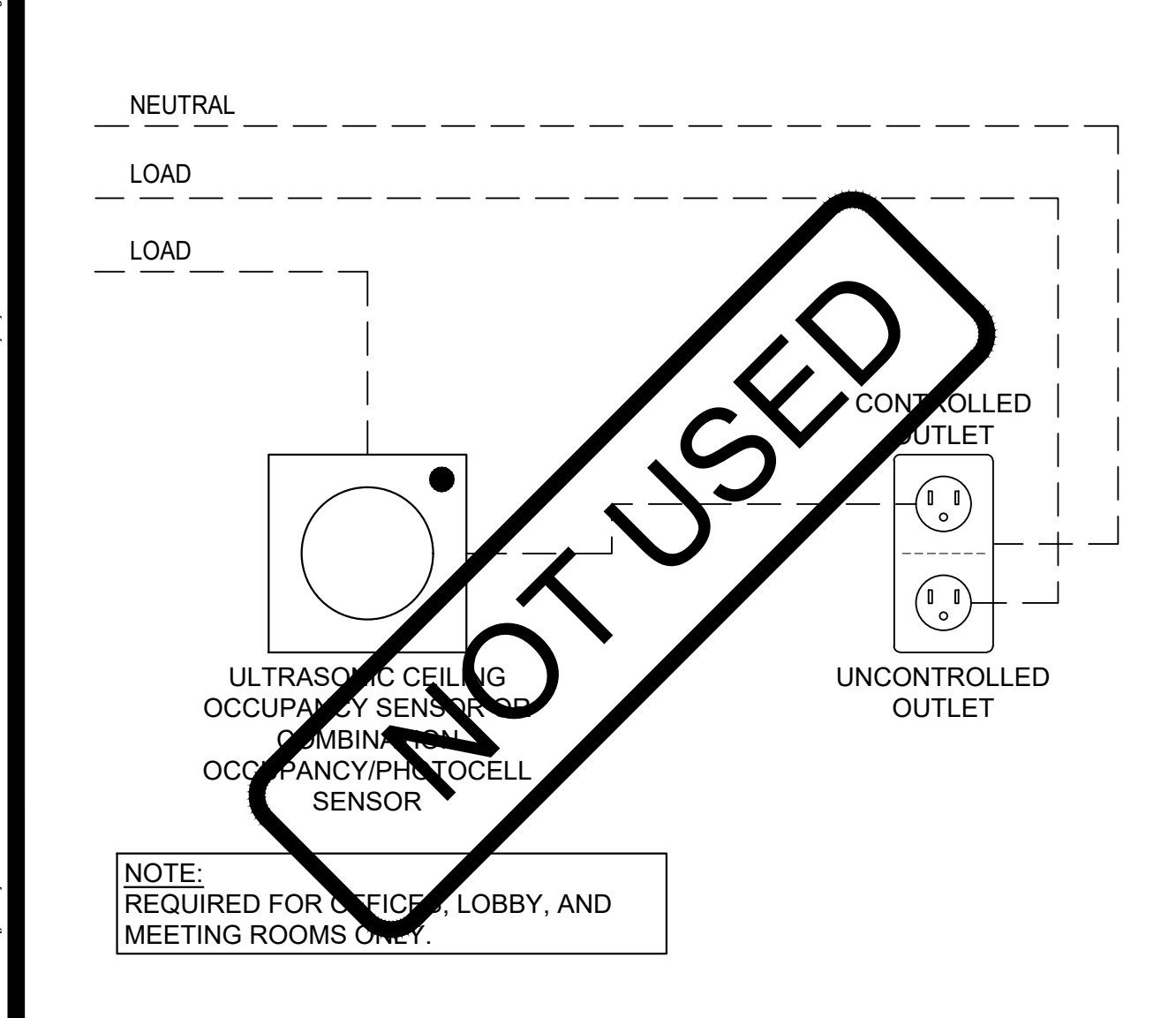
DRAWN BY: JMA/VV
 SCALE: AS NOTED
 DATE: 06/24/22
 PROJECT NO: 1685-20
 SHEET TITLE:

ELECTRICAL PLAN

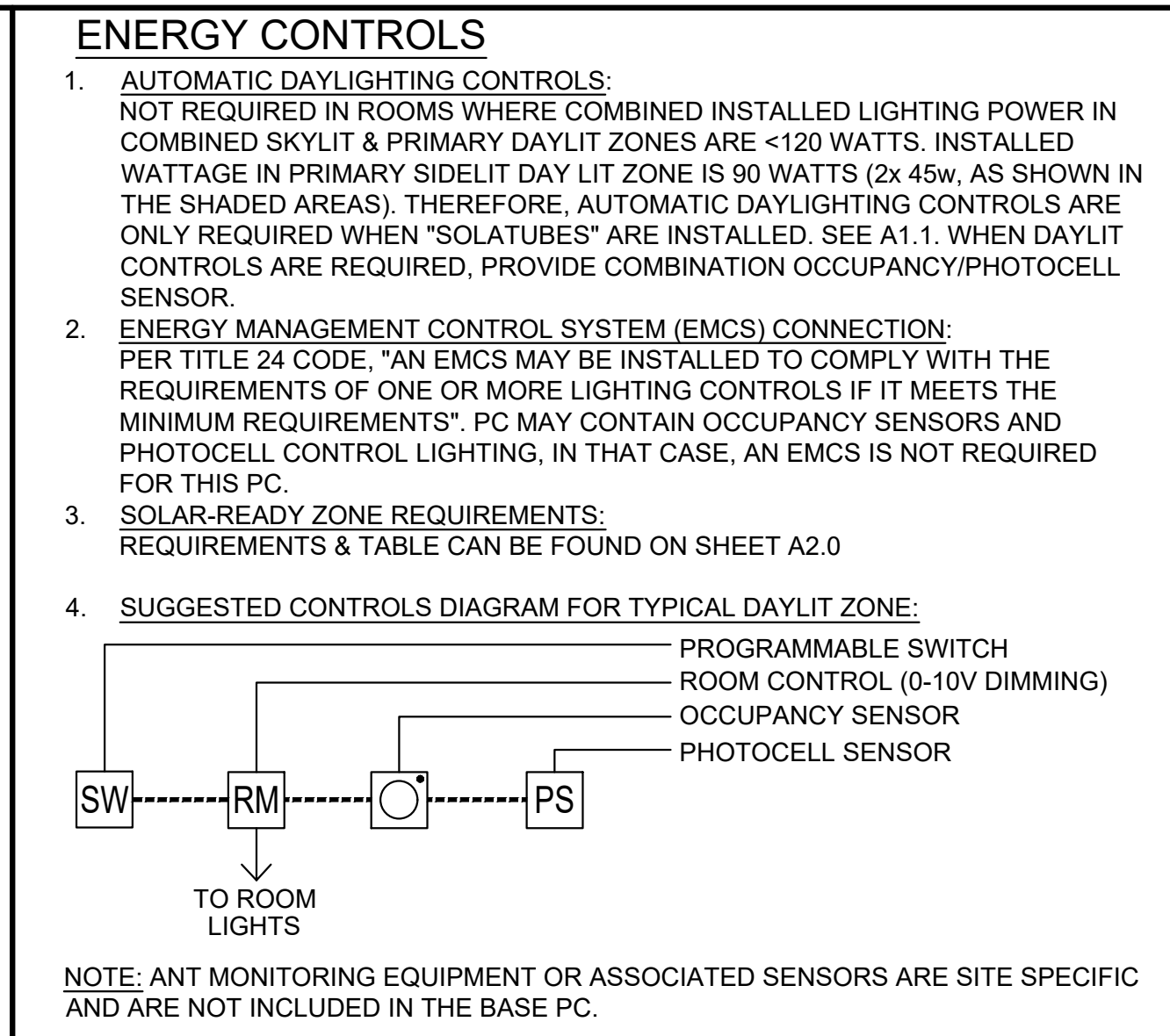
SHEET NUMBER:
E1.1-M

ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0" **1**



TYP. CONTROLLED/UNCONTROLLED RECEPTACLE WIRING DIAGRAM SCALE: 1/4" = 1' - 0" **2**



ENERGY NOTES **3**

- THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
- ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
- PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
- SEE PLANS FOR LOCATIONS OF ALL DEVICES.
- STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICALLY ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
- STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
- THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
- FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

GENERAL NOTES

- LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.
- DEMAND RESPONSE CONTROLS**
- DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
 - DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
 - DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
 - SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-01-E TO DSA (BY OTHERS).

ELECTRICAL SYMBOLS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122206 INC.
REVIEWED FOR
SS FLS ACS
DATE: 06/29/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

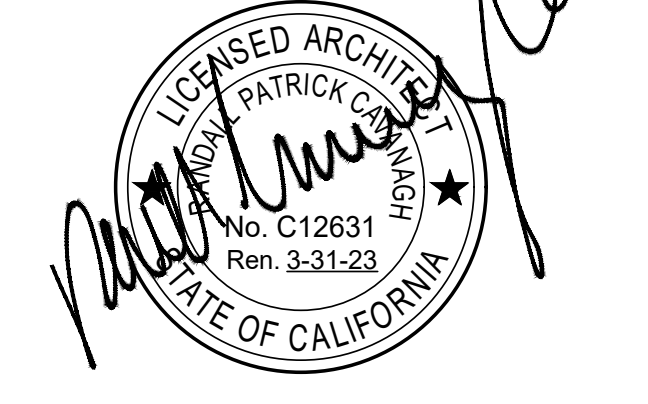
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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118544 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/09/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC



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REVISIONS
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DRAWN BY: AS NOTED
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:

ELECTRICAL NOTES & DETAILS

SHEET NUMBER:
E1.2

FIRE ALARM SYSTEM

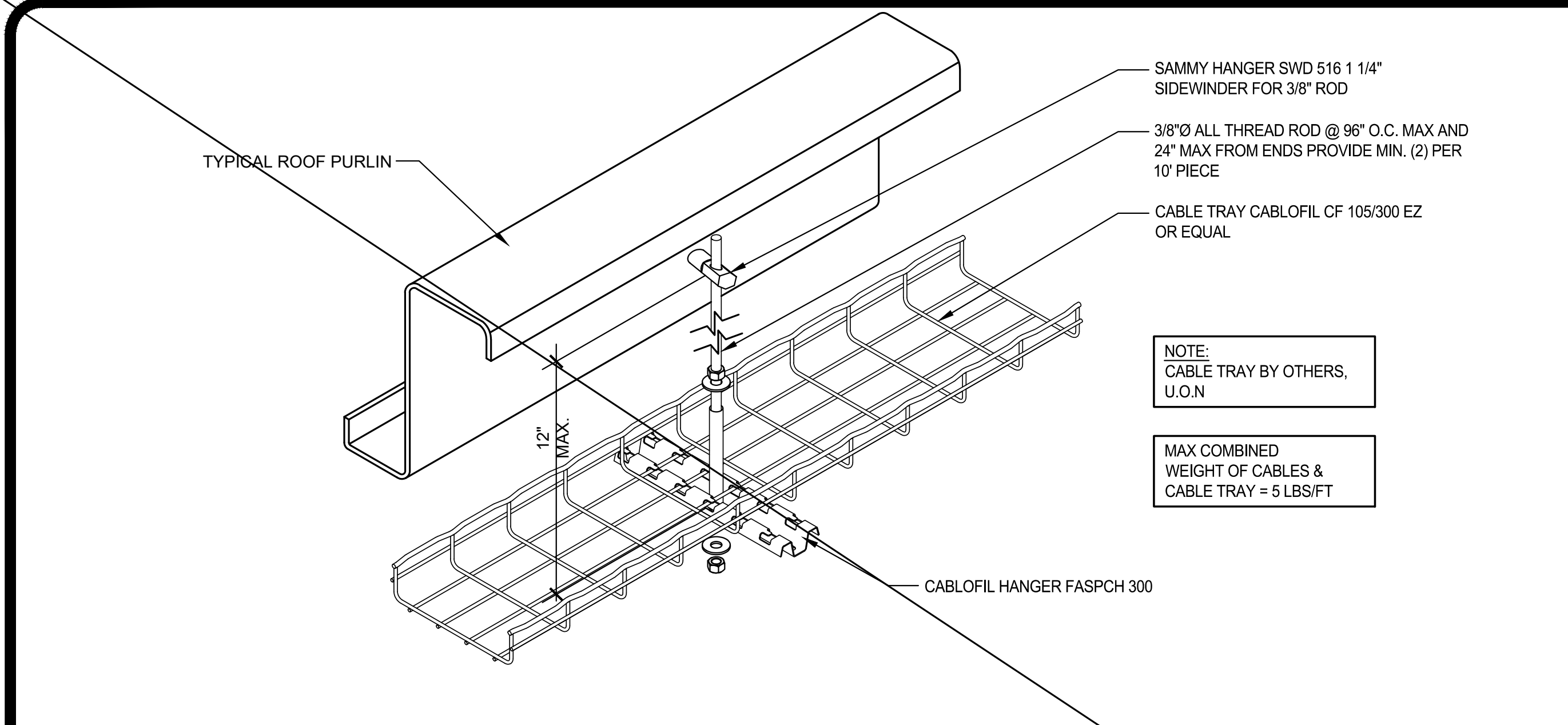
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
- JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
- COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
- THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
- ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
- AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFX OR ULJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

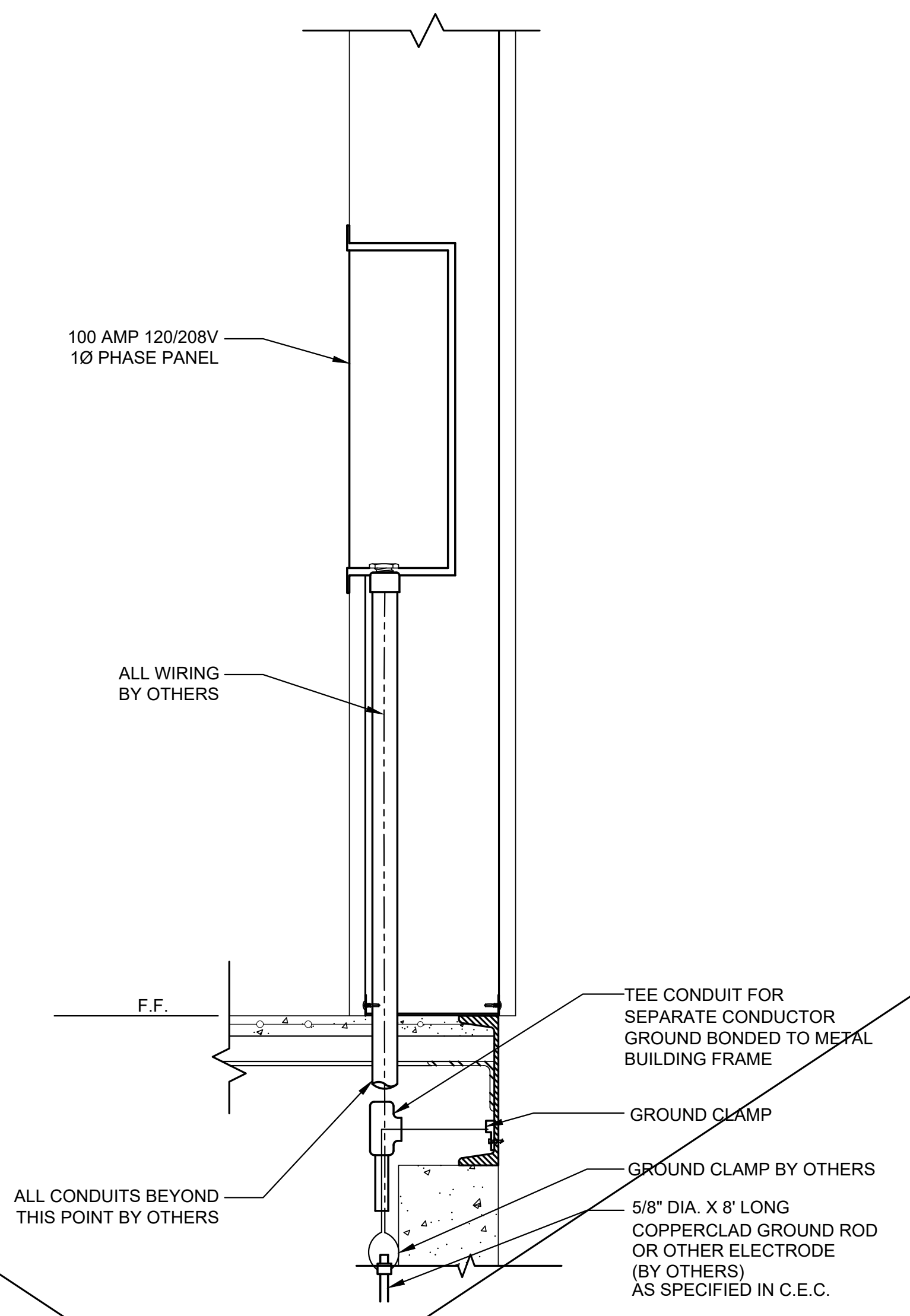
- GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
- PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
- PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
- ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.
- WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS, PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION 13.6.9 & DSA IR PC-2 SECTION 1.18. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE PROVIDED BY OTHERS.

FIXTURE NOTES:

- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
- LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
- FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
- ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
- MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
- ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
- 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME. LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKONITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
- FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT. CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
- CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 120V 60 CYCLE
B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.



CABLE TRAY DETAIL SCALE: N.T.S. 1



PC SHEET FOR REFERENCE

ELECTRICAL BOND MODULES TOGETHER W/ #8 CU @ MODLINE BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

NOT USED 2

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION SCALE: 1-1/2" = 1' - 0" 3

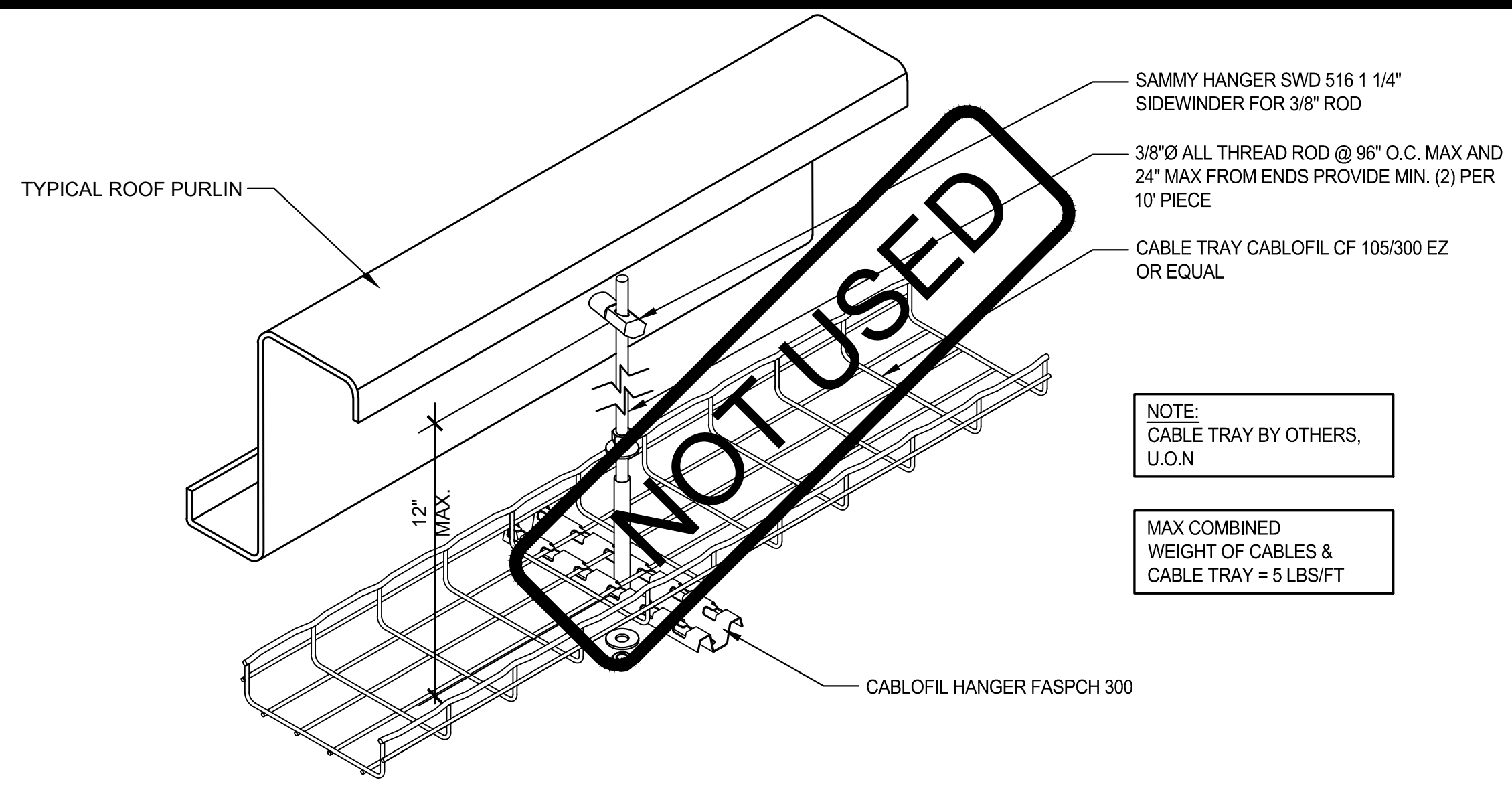
VOLTS: 120/240 SINGLE PHASE				PANEL: "EP-A"				FEED: EXTERIOR				
MAIN: 100 AMP MAIN BKR.				LOCATION: INTERIOR				MOUNTING: RECESS				
LOAD	WATTS		BRK.	CIR.	A	B	CIR.	BRK.	WATTS		LOAD	
	A	B							A	B		
LIGHTS	360		20	1	1		2	2	80	7680	HVAC	
EXTERIOR LIGHTS	100		20	1	3		4	-	-	7680	HVAC	
EMERG. EXIT LIGHTS	100		20	1	5		6				SPACE	
CLOCK	100		20	1	7		8					
RECEPTS	1080		20	1	9		10					
RECEPTS	360		20	1	11		12					
GFI RECEPTS	180		20	1	13		14					
SPARE					15		16					
					17		18					
					19		20					
					21		22					
					23		24					
					25		26					
					27		28					
					29		30					
PHASE WATTAGE	1720	560						7680	7680		PHASE WATTAGE	
TOTAL WATTS "A" LEG =	9400							17640			TOTAL WATTS "B" LEG =	8240
TOTAL WATTS =	17640							74 AMPS		120/240V	SINGLE PHASE	125 AMP BUS.

FEEDERS: 3-#2 & 1-#8 CU. TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

LOAD PANEL CALCULATIONS

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

GENERAL NOTES



3/8"Ø ALL THREAD ROD @ 96" O.C. MAX AND 24" MAX FROM ENDS PROVIDE MIN. (2) PER 10' PIECE

CABLE TRAY CABLOFIL OF 105/300 EZ OR EQUAL

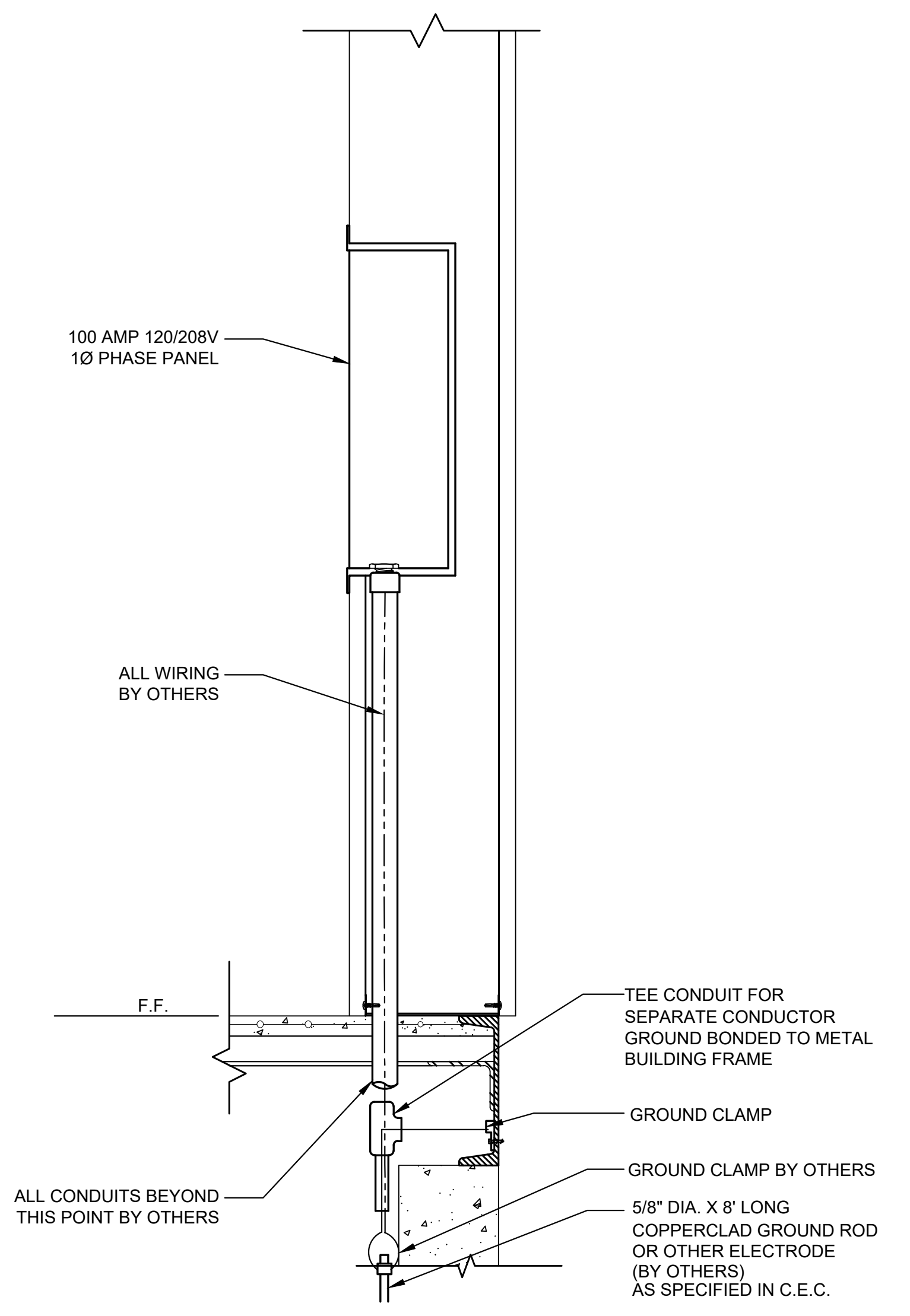
CABLOFIL HANGER FASPCB 300

NOTE:
CABLE TRAY BY OTHERS, U.O.N

MAX COMBINED WEIGHT OF CABLES & CABLE TRAY = 5 LBS/FT

CABLE TRAY DETAIL

SCALE: N.T.S. 1



- SIZE OF CONDUCTORS SHALL COMPLY W/CEC.A
- BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
- ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

NOT USED

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

SCALE: 1-1/2" = 1'-0" 3

PANEL: B SERIAL NO:	PHASE:	VOLTS:			BUSS:			MAIN:				LOCATION:				FEED:			MOUNTING:		
		3Ø	120/208		225 Amp	150 Amp	Interior				Bottom			Recessed							
OBJECT DESCRIPTION	WATTS PER	NO. OF	LCL	A	B	C	BRK	POLE	WIRE SIZE	WIRE NO	A	B	C	WIRE NO	A	B	C	LCL	NO. OF	WATTS PER	OBJECT DESCRIPTION
Receps (GFCI)	180	5		900			20	1	#12	1	X			2	#10	2	30	2250	1	2250	Water Heater (20 gal)
Receps (GFCI)	180	5			900		20	1	#12	3	X			4				2250		2250	
Ext Receps (GFCI)	180	4				720	20	1	#12	5	X			6	#12	1	20	1500	1	1500	Hand Dryer
				0						7	X			8	#12	1	20	1500	1	1500	Hand Dryer
				0						9	X			10	#12	1	20	1500	1	1500	Hand Dryer
Ext Recep (DF, DED)	180	1				180	20	1	#12	11	X			12	#12	1	20	1500	1	1500	Hand Dryer
				0						13	X			14	#12	1	20	720	5	144	Exhaust Fans
Ext Recep (GFCI)	180	1				180	20	1	#12	15	X			16	#12	1	20	624	2	312	Exhaust Fans (Multituse)
				0						17	X			18	#12	1	20	294	6	49	Int Lights (2x4)
				0						19	X			20				0			
				0						21	X			22				0			
				0						23	X			24	#12	1	20	234	6	39	Int Lights (2x2)
				0						25	X			26				0			
				0						27	X			28				0			
				0						29	X			30	#12	1	20	160	4	40	Ext Lights
				0						31	X			32				0			
				0						33	X			34				0			
				0						35	X			36				0			
				0						37	X			38				0			
				0						39	X			40				0			
				0						41	X			42				0			
LEG TOTALS				900	900	1080									4470	4374		3688	LEG TOTALS		
LCL=0+15412=15412																					
TOTAL WATTS=15412				LEG BALANCE = 5.9%																TOTAL AMPS: 42.83	

LOAD PANEL CALCULATIONS

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

FIRE ALARM SYSTEM

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
- JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
- COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
- THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
- ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
- AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFX OR ULJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

- GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
- PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
- PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
- ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.
- WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS, PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION 13.6.9 & DSA IR PC-2 SECTION 1.18. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE PROVIDED BY OTHERS.

FIXTURE NOTES:

- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
- LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
- FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
- ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
- MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
- ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
- 2x4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME. LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
- FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT. CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
- CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
C. IF 60 DEGREE WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

GENERAL NOTES

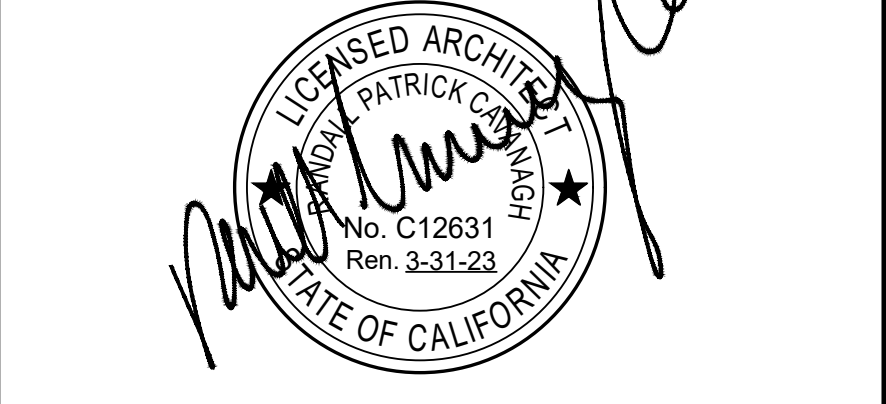


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
ROWLAND USD
HOLLINGWORTH ES
(1) 24' x 40' RESTROOM

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
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REVISIONS

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2	
3	

DRAWN BY: JMA/VVY
SCALE: AS NOTED
DATE: 06/07/22
PROJECT NO: 1685-20
SHEET TITLE:

ELECTRICAL NOTES & DETAILS

SHEET NUMBER:
E1.2-M



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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
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2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PRODUCT APPLICATION FOR CONSTRUCTION IS REQUIRED.
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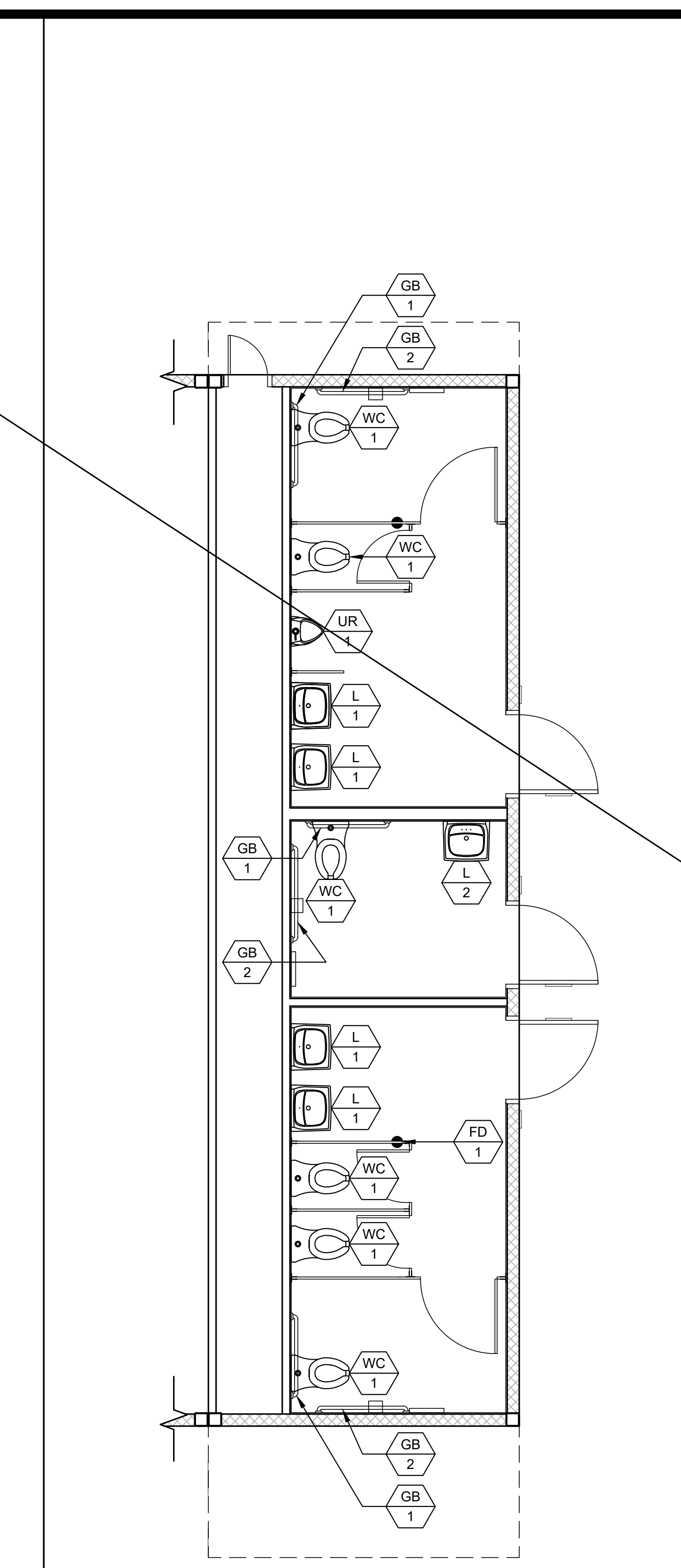
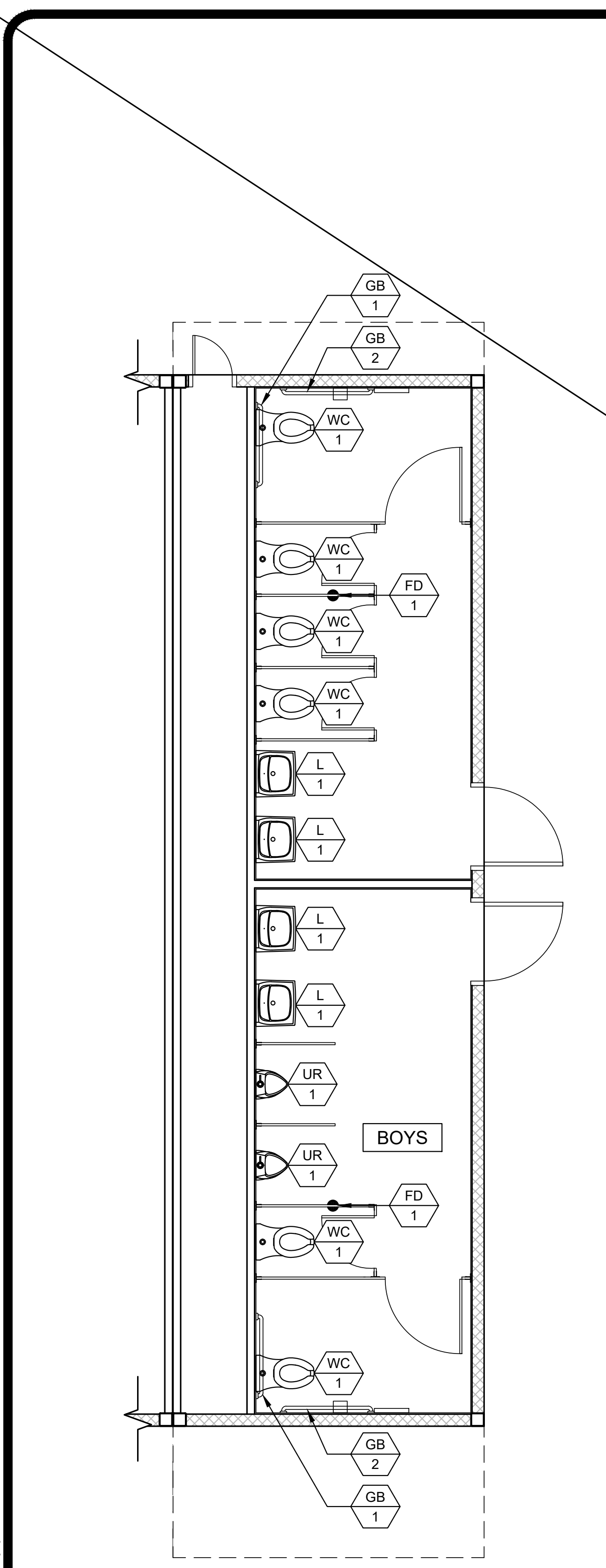
REVISIONS

DRAWN BY: AS NOTED
 SCALE: AS NOTED
 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLANS
& FIXTURE SCHEDULE
 SHEET NUMBER:

MARK	FIXTURE ¹	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 1 ADA		CANNOT USE	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 12" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 17" A.F.F. - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F. OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
WC 2		FLOOR MOUNT TANK TYPE AMERICAN STANDARD #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE AMERICAN STANDARD w/2.2650T SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL ADA COMPLIANT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F. - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
WC 3 OPTIONAL ADA		FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL. FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'JUVENILE ULTRA' MODEL K-96059 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'WELLCOMME ULTRA' MODEL K-96053 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF ULTRA' MODEL K-96057 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F. OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
L 1		KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL 86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2		KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL Z7440-XL-PC - HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M.
UR 1		WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL. FLOW RATE = 0.125 gpf				FLUSH VALVE ZURN MODEL Z6003-ULF (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
M 1		WALL MOUNT TYPE BOBRICK MODEL B165-18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE 10/P2.0
GB 1		WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36" & 48") OR EQUAL.				18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
GB 2						
WH 1		RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PRO20-1-RH-POU 240 VOLT SINGLE PHASE				AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P.20
WH 1		CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104"				CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 7/P2.0
FS 1		FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" BRAIN OR EQUAL				ZURN 843-M-RC OR EQUAL
FC 1		CONCRETE FLOOR COVERING MODEL 822-2DNRV OR EQUAL				CAITLIN CBK110CP OR EQUAL
FD 1		CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.)
CS 1		ROC MODEL 25103 25X22 SINGLE BOWL SINK OR EQUAL				FAUCET - ZURN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
DF 1		ELKAY MODEL EDFP217C WALL MOUNT WATER FOUNTAIN OR EQUAL				
HB 1		STANDARD HOSE BIBB ARROWHEAD MODEL 353LKF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.

PC SHEET FOR REFERENCE

- NOTES:
 1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
 2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
 3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.
 4. THERE SHOULD BE NO SHARP OR ABRASIVE UNDER LAVS OR SINKS.

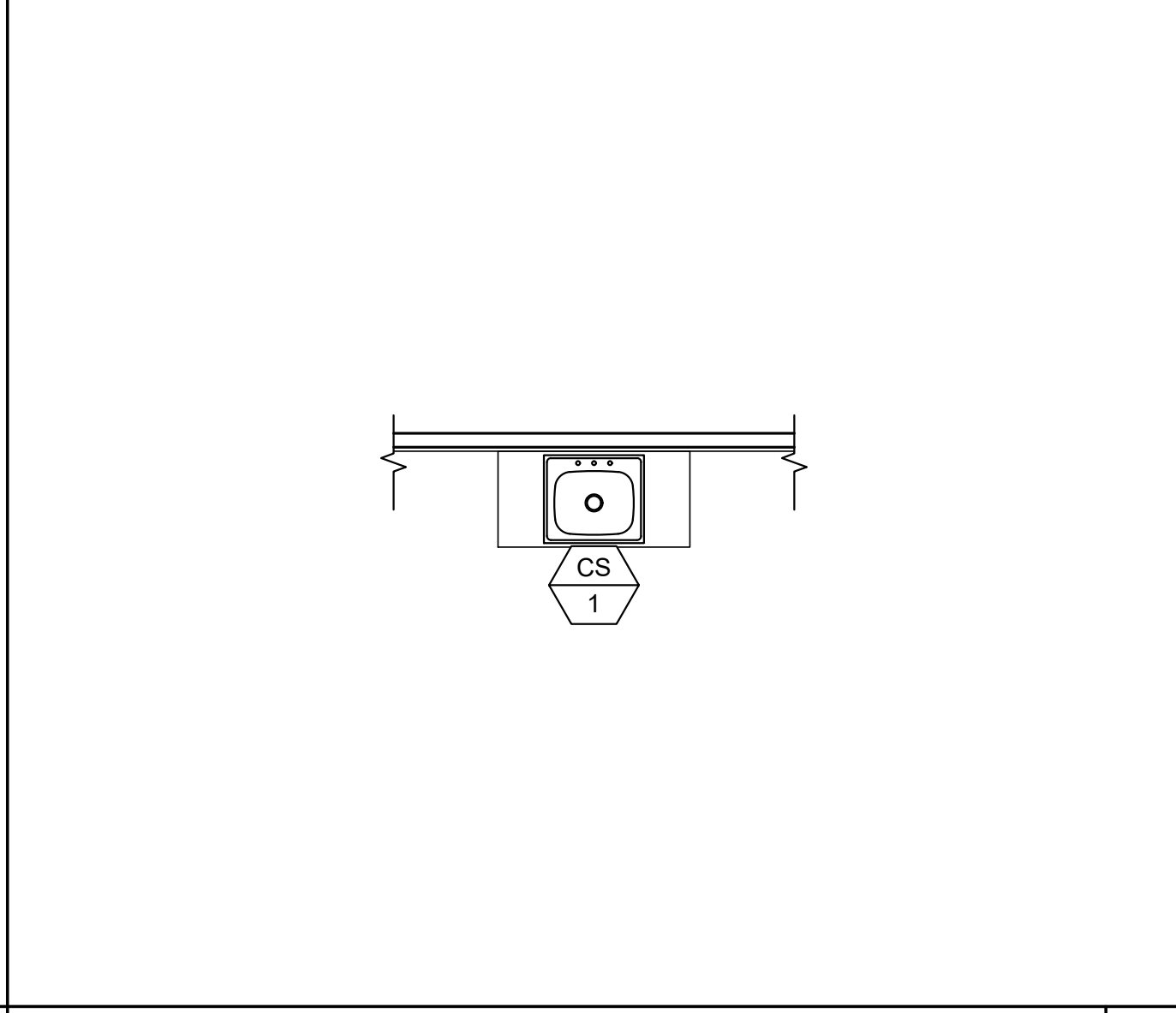
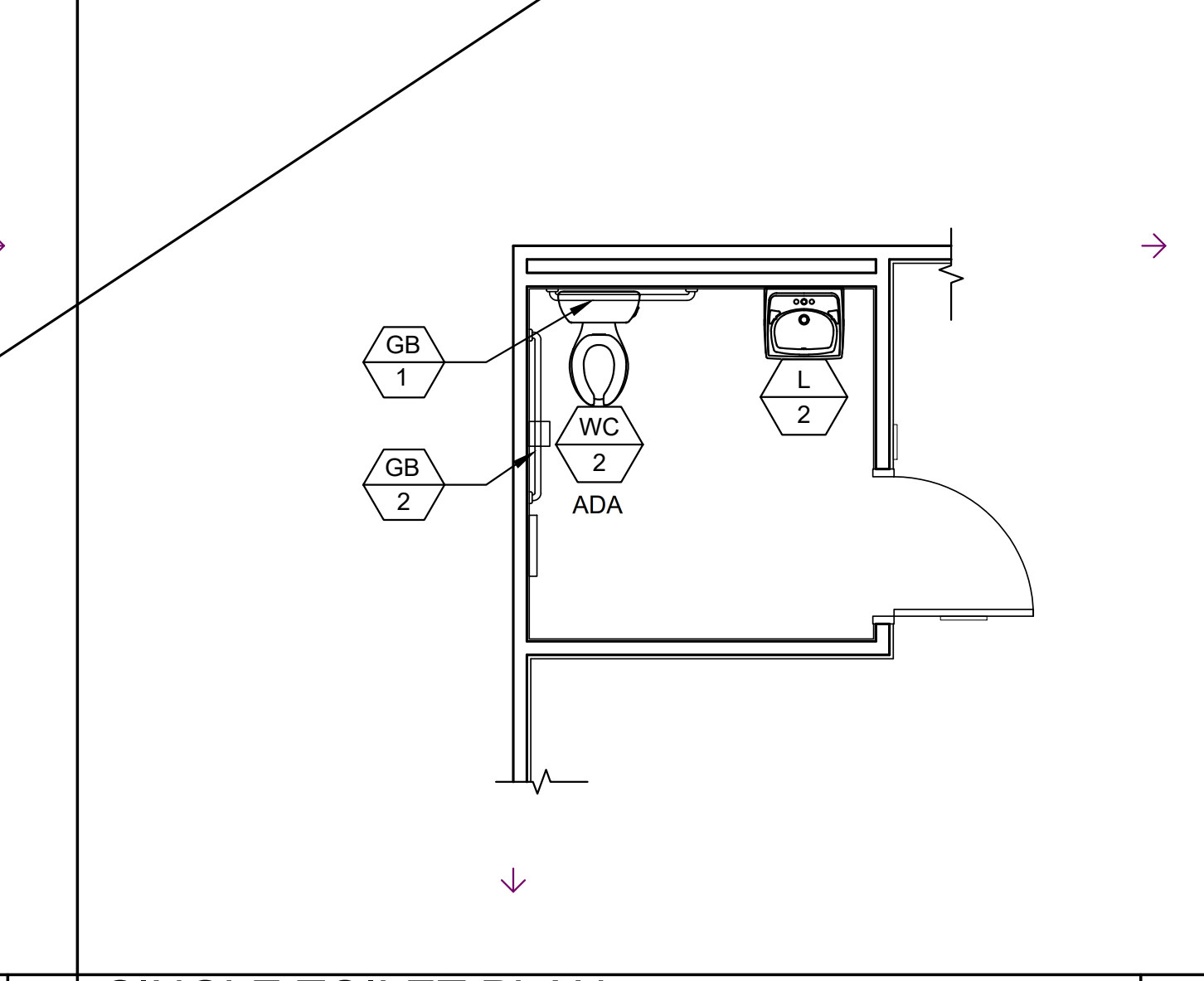
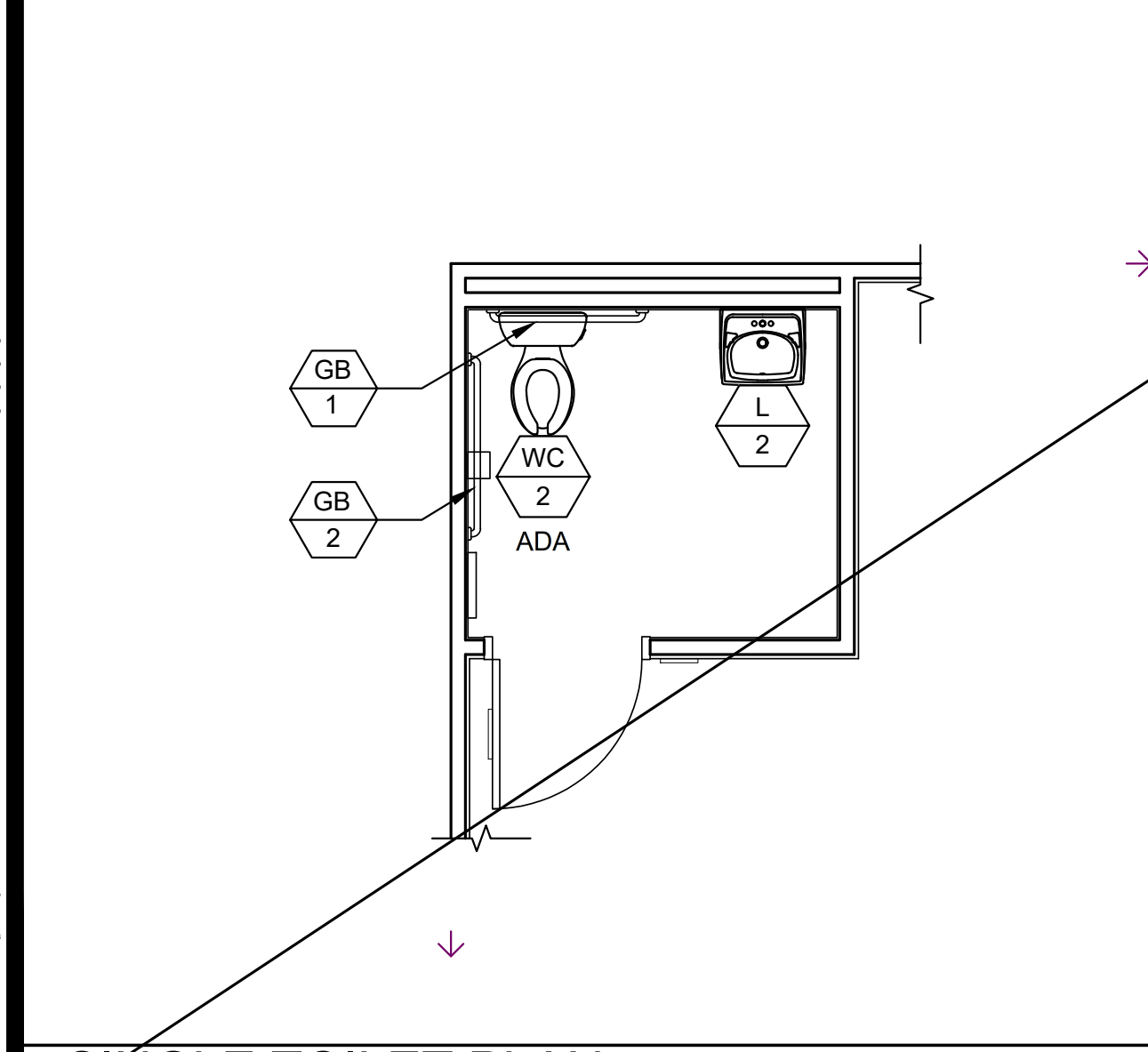


BOYS, GIRLS & STAFF R.R. PLAN SCALE: 1/4" = 1'-0" 1

BOYS & GIRLS R.R. PLAN SCALE: 1/4" = 1'-0" 2

CLASSROOM SINK PLAN SCALE: 1/4" = 1'-0" 7

PLUMBING FIXTURE SCHEDULE



PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

- DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C. &)
- RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
- RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
- RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
- INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
- REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
- REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
- SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
- PIPING MATERIAL
 - WATER: COPPER TYPE "L", 95/5 SOLDER.
 - WASTE DRAIN AND VENT: ABS.

= PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

SINGLE TOILET PLAN - FRONT WALL APPROACH SCALE: 1/4" = 1'-0" 6

SINGLE TOILET PLAN - SIDE WALL APPROACH SCALE: 1/4" = 1'-0" 7

CLASSROOM SINK PLAN SCALE: 1/4" = 1'-0" 7

SYMBOLS LEGEND

GENERAL NOTES

P1.0

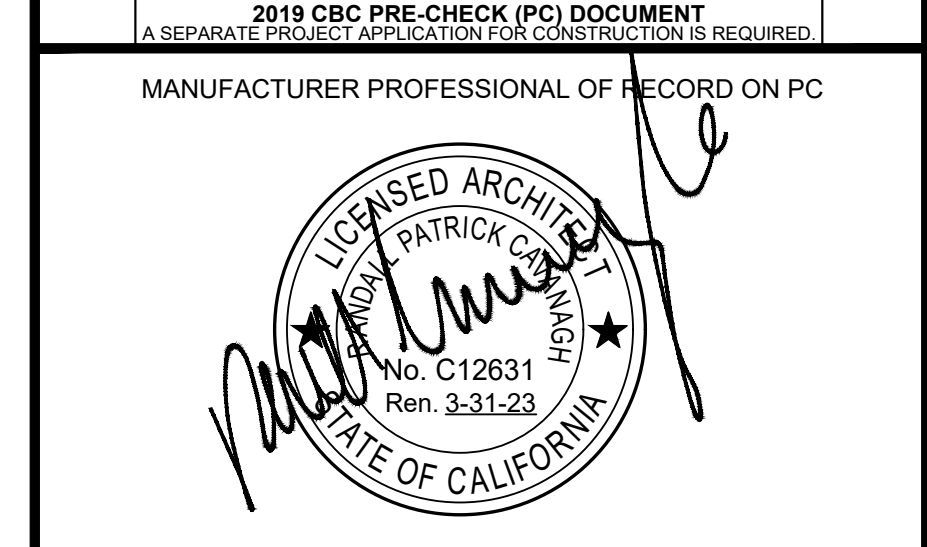


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PRE-CHECKED SET NAME
24'x40' THRU 120'x40'
HIGH PITCH MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
ROWLAND USD
HOLLINGWORTH ES
(1) 24' x 40' RESTROOM

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
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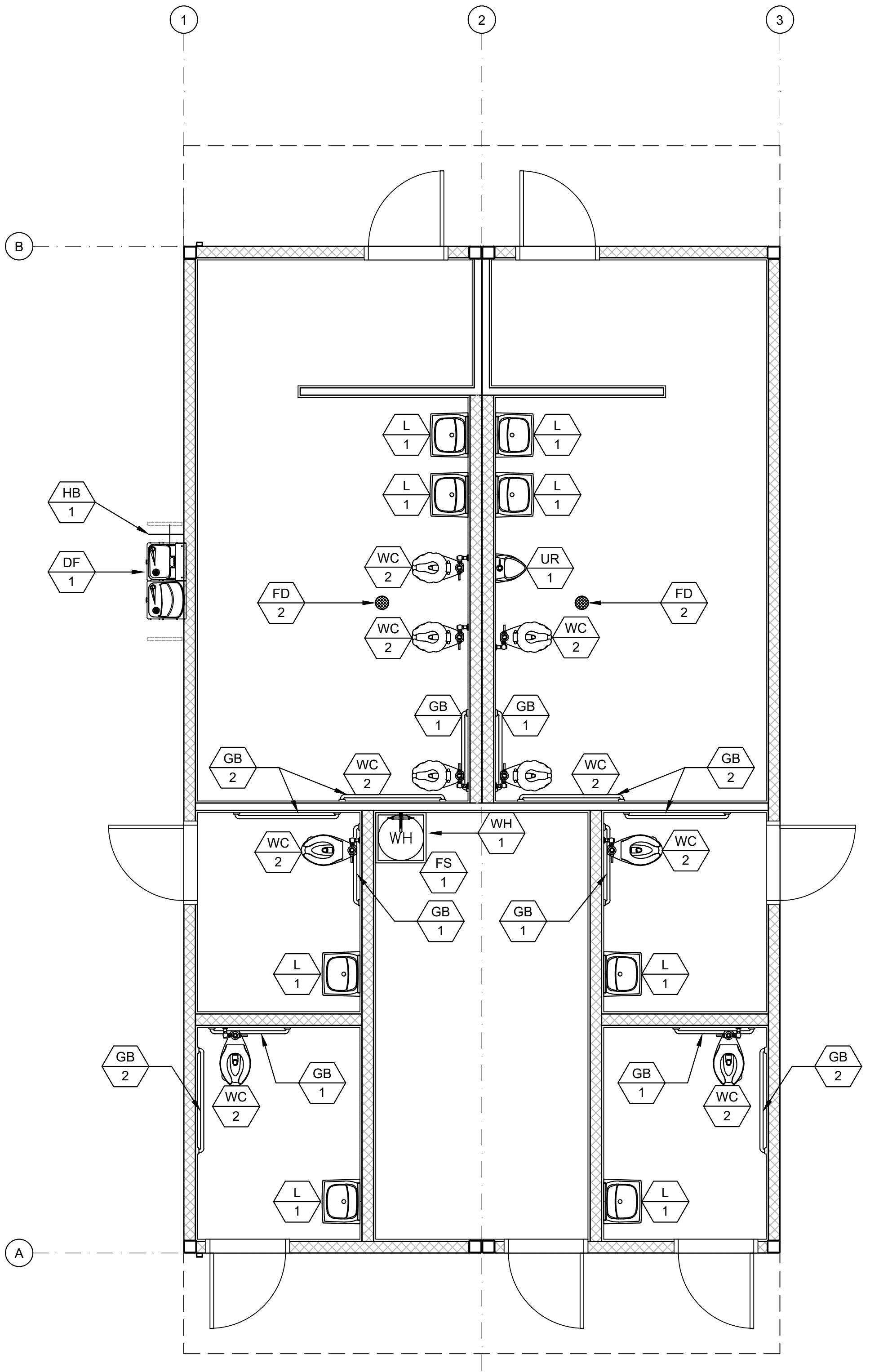
REVISIONS

DRAWN BY: JMA/WY
 SCALE: AS NOTED
 DATE: 06/24/22
 PROJECT NO: 1685-20
 SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLANS
& FIXTURE SCHEDULE

SHEET NUMBER:
P1.0-M

MARK	FIXTURE ¹	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 1 ADA		CANNOT USE	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 12" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 17" A.F.F. - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL 2600AV-HET - 1.28 G.P.F. OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
WC 2		FLOOR MOUNT TANK TYPE AMERICAN STANDARD #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE AMERICAN STANDARD w/2.260T SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL. ADA COMPLIANT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F. - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
WC 3 OPTIONAL ADA		FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL. FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'JUVENILE-ULTRA' MODEL K-96059 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'WELLCOMME ULTRA' MODEL K-96053 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF-ULTRA' MODEL K-96057 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL 2600AV-HET - 1.28 G.P.F. OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
L 1		KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL 86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2		KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL 77440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE - FLOW RATE OF 0.5 G.P.M.
UR 1		WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL. FLOW RATE = 0.125 gpf				FLUSH VALVE ZURN MODEL 26003-ULF (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
M 1		WALL MOUNT TYPE BOBRICK MODEL B165-18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MIRROR PER SCHEDULE.
GB 1		WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36" & 48") OR EQUAL.				18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
WH 1		RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PRO20-1-RH-POU 240 VOLT SINGLE PHASE				AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P2.0
TWH 1		CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104"				CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 7/P2.0
FS 1		FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL				ZURN 843-M-RC OR EQUAL
ULS 1		WALL MOUNT TYPE FLORESTONE-FM OR EQUAL				CAITLIN CBK110CP OR EQUAL
FD 1		WOOD FLOOR DRAIN SIOUX CHIEF MODEL MODEL 822-2DNRV OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.
FD 2		CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.)
CS 1		ROC MODEL 25103 25X22 SINGLE BOWL SINK OR EQUAL				FAUCET - ZURN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER DETAILS 4 & 6/P3.0.
DF 1		ELKAY MODEL VRCTDDWSK DRINKING FOUNTAIN W/BOTTLE FILLER				
HB 1		STANDARD HOSE BIBB ARROWHEAD MODEL 353LKF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.

NOTES:
 1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
 2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
 3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.
 4. THERE SHOULD BE NO SHARP OR ABRASIVE UNDER LAVS OR SINKS.



PLUMBING FIXTURE SCHEDULE

= PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

PLUMBING NOTE
 MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

- DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C. &)
- RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
- RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
- RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
- INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
- REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
- REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
- SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
- PIPING MATERIAL
 - WATER: COPPER TYPE "L", 95/5 SOLDER.
 - WASTE DRAIN AND VENT: ABS.

BOYS, GIRLS & STAFF R.R. PLAN

6 NOT USED

7 NOT USED

7 NOT USED

8 SYMBOLS LEGEND

8

GENERAL NOTES

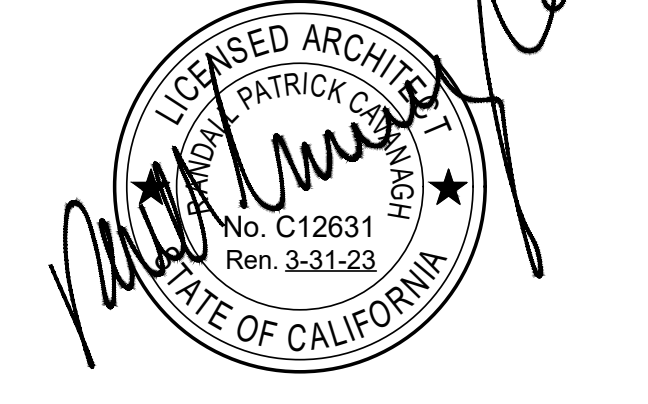


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PRE-CHECKED SET NAME
 24'x40' THRU 120'x40'
 HIGH PITCH MODULAR BUILDING
 (LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
 .
 .
 .

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PRODUCT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC



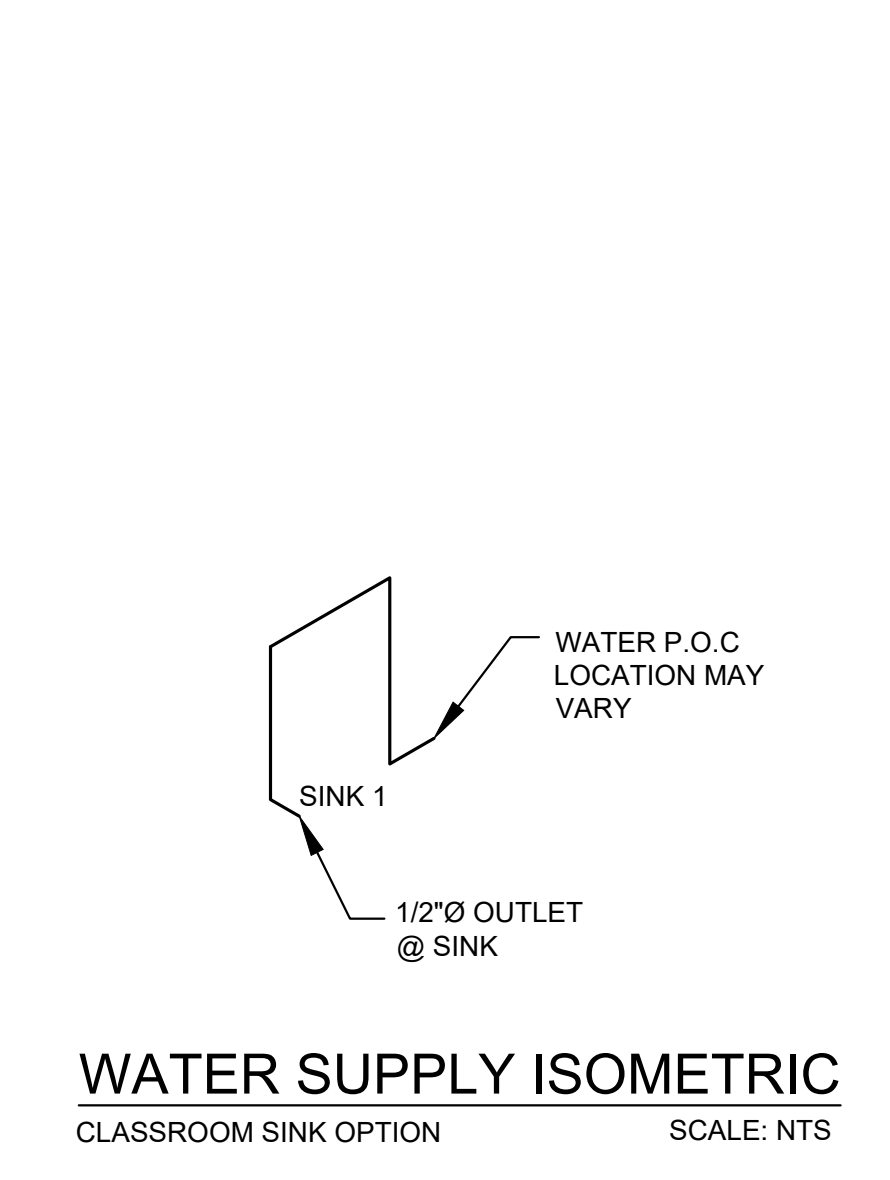
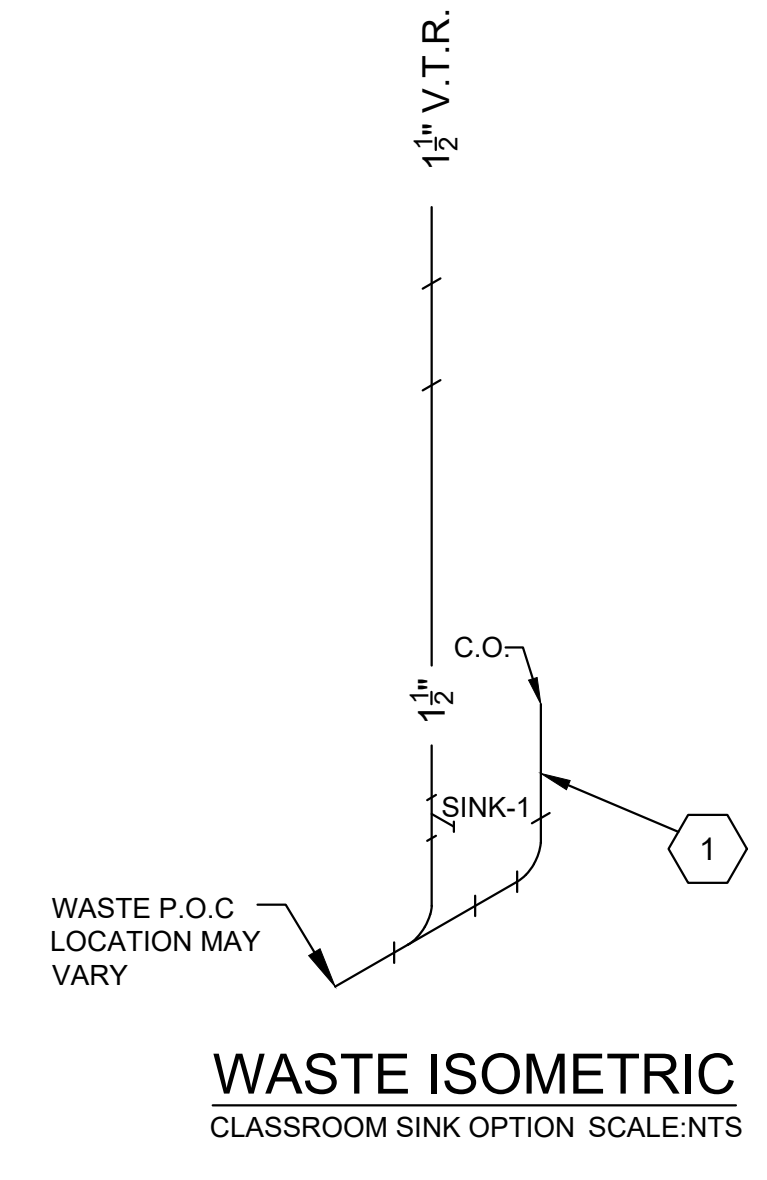
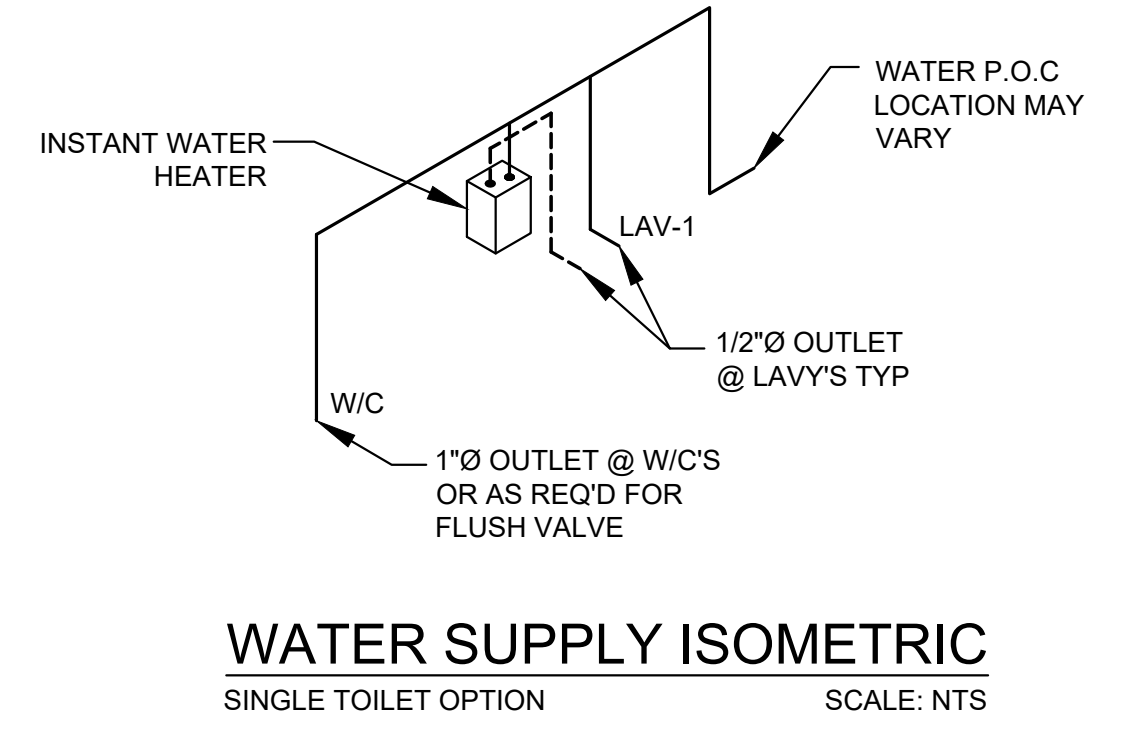
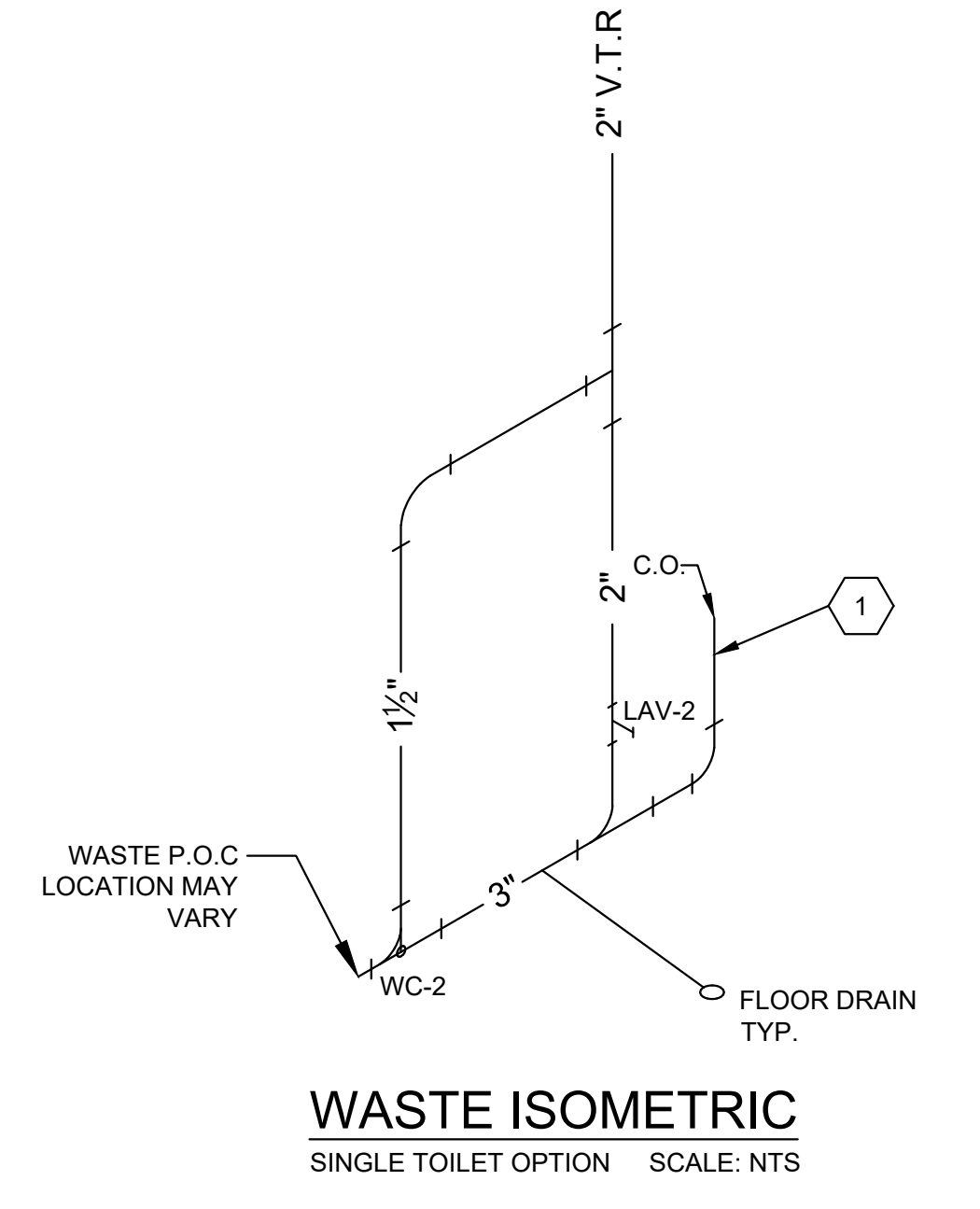
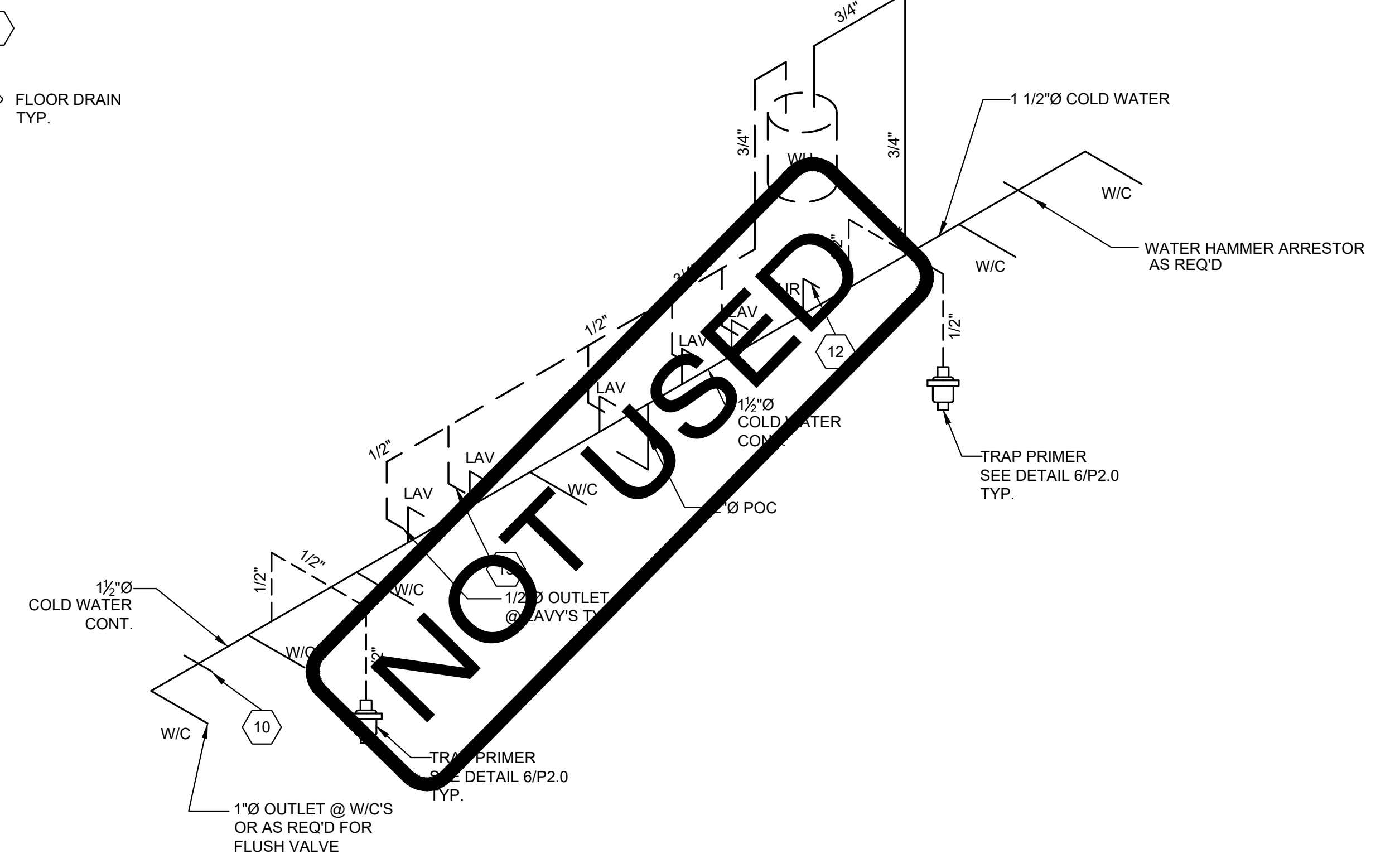
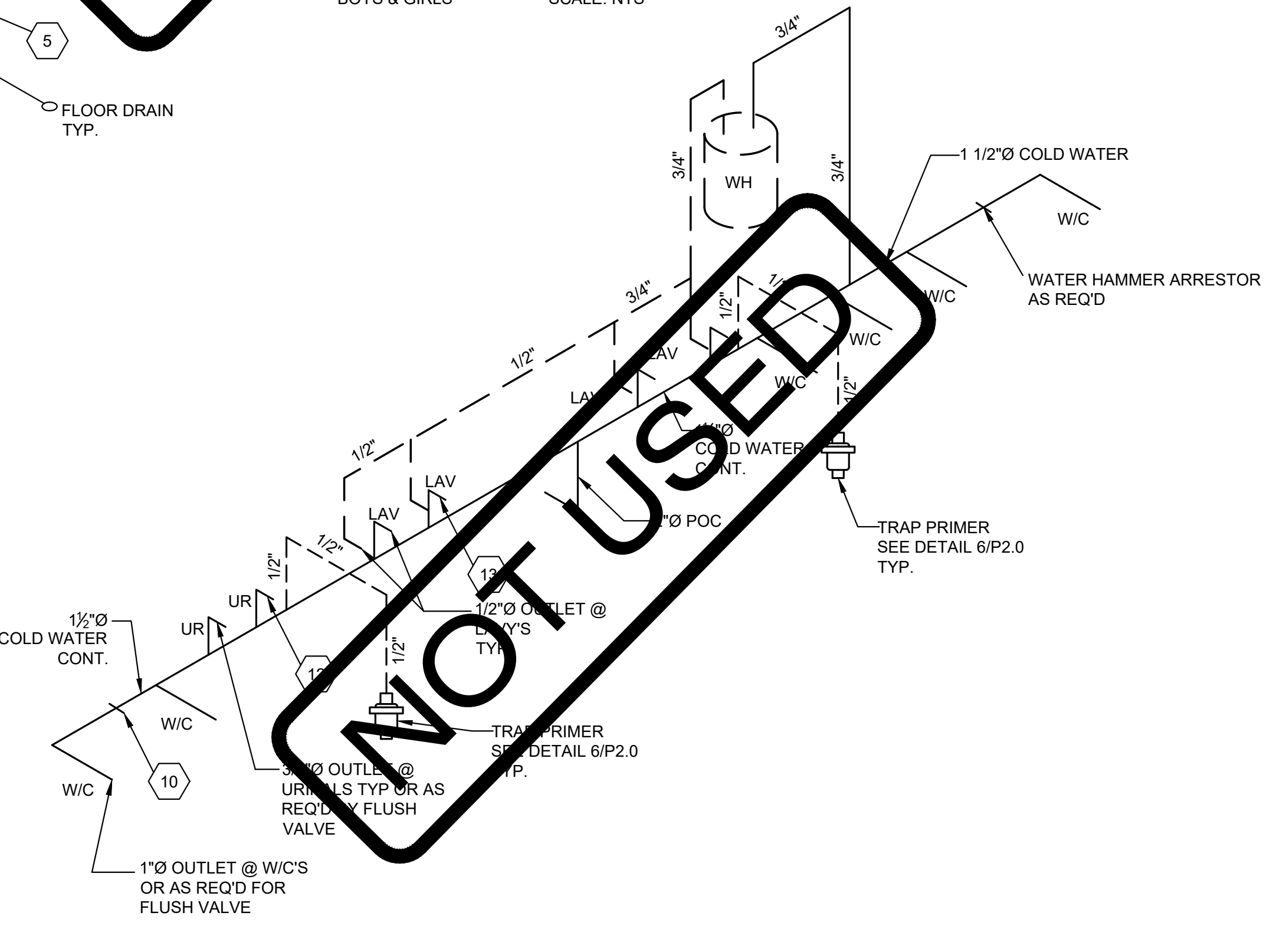
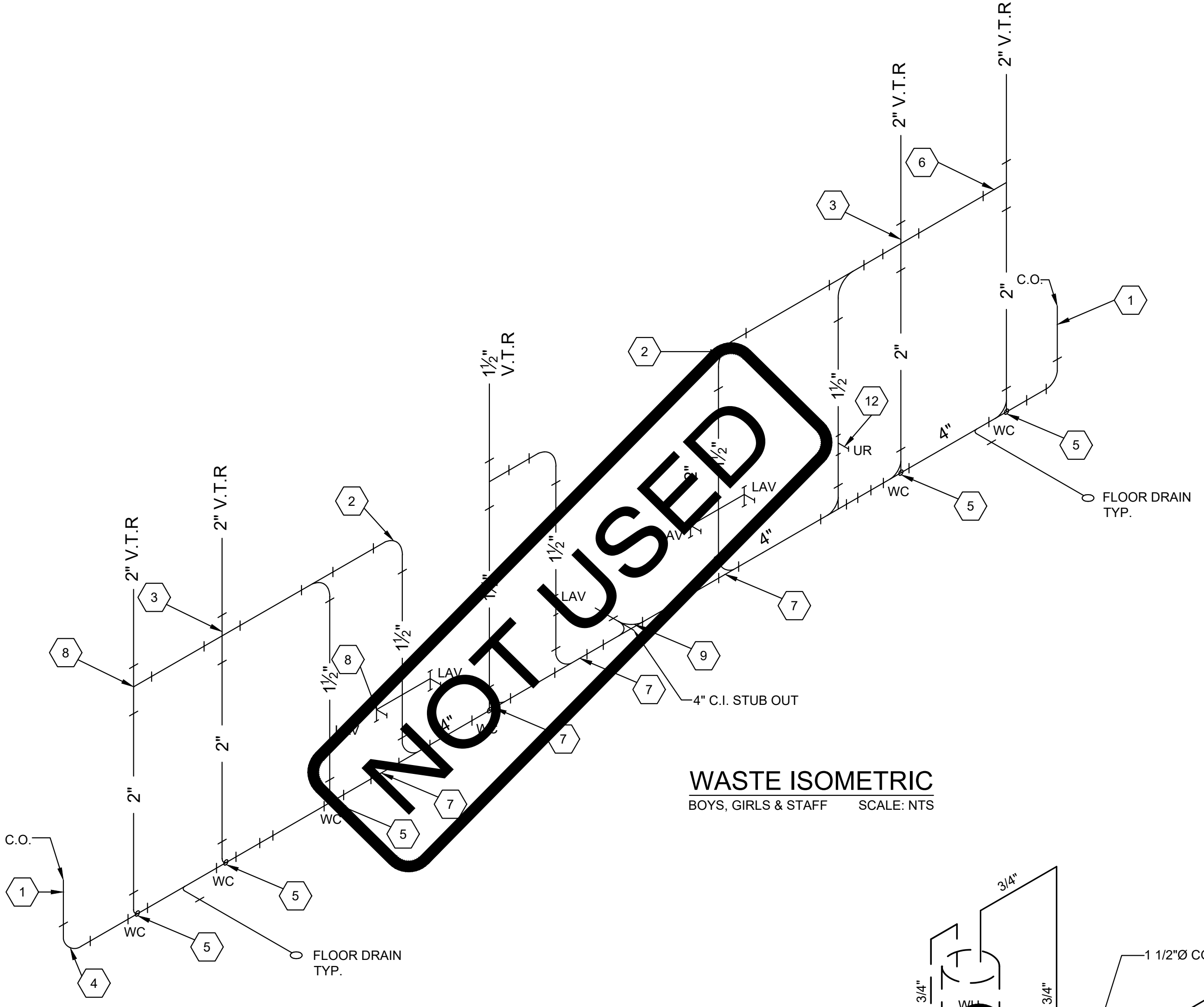
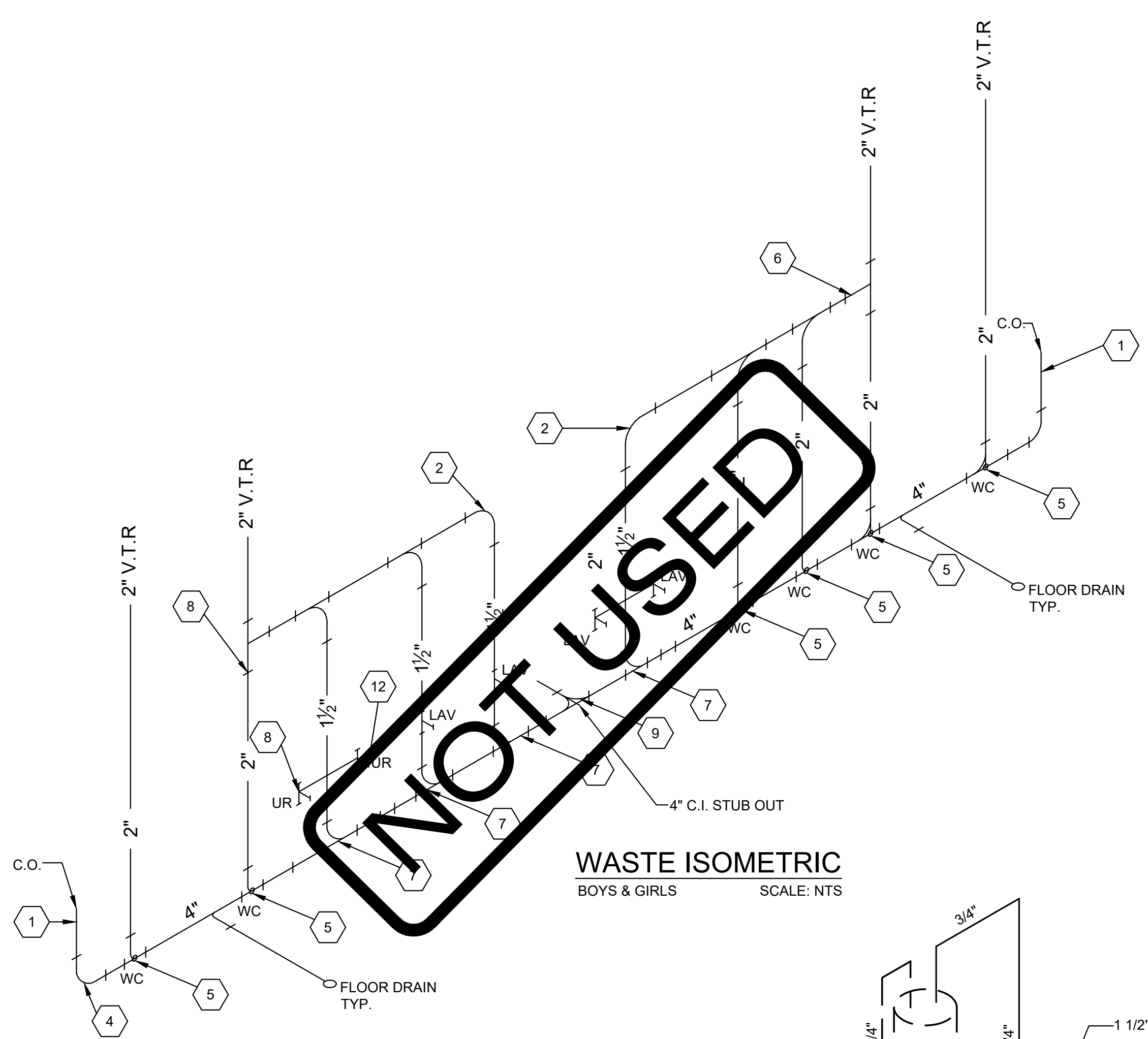
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REVISIONS

DRAWN BY: AS NOTED
 SCALE: AS NOTED
 DATE: MM/DD/YY
 PROJECT NO: XXXX-20
 SHEET TITLE:

PLUMBING ISOMETRICS DRAWINGS

SHEET NUMBER:
P3.0



KEY NOTES

- 1 4" CLEAN OUT
- 2 VENT 90
- 3 VENT CROSS
- 4 4" QUARTER BEND
- 5 SMITH#0600 CARRIER
- 6 2" SANITARY TAP TEE
- 7 4x4x2 COMBINATION WYE 1/8 BEND
- 8 2x2x1 1/2 SANITARY TEE
- 9 4" DOUBLE COMBINATION
- 10 2'x18" LONG CU AIR CHAMBER
- 11 1" CW STUB AT WATER CLOSETS
- 12 3/4" CW STUB AT URINALS
- 13 1/2 CW STUB AT LAVATORIES