

MLK ELEMENTARY SCHOOL TRANSITIONAL KINDERGARTEN 1100 CITADEL BAKERSFIELD, CA 93307

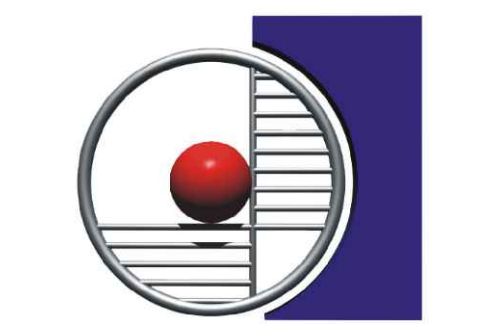
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123900 INC:
REVIEWED FOR
SS FLS ACS
DATE: 08/05/2024



**BAKERSFIELD
CITY SCHOOL
DISTRICT**
1300 BAKER ST.
BAKERSFIELD CA 93305

Project Name:
**TRANSITIONAL
KINDERGARTEN**

Project Address:
**MLK ELEMENTARY
SCHOOL**
1100 Citadel
Bakersfield, CA 93307



**integrated
designs**
by SOMAM, Inc.
**ARCHITECTURE
ENGINEERING
INTERIOR DESIGN**

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Sheet Title:
TITLE SHEET

Job No.: **5593**
Sheet No.: **T1.01**

Release: DSA SUBMITTAL Issue Date: 7/24/24

GENERAL NOTES

- ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS
- CHANGES MADE TO THE APPROVED DRAWINGS & SPECS SHALL BE MADE BY ADDENDUM OR C.C.D., APPROVED BY DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R. AND DSA IR-6.
- REFER TO RELOCATABLE BUILDING MANUFACTURER'S DRAWINGS FOR ALL INFORMATION REGARDING THE RELOCATABLE BUILDINGS
- DSA ACCEPTED TESTING LABORATORY TO BE DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS & INSPECTIONS FOR THE PROJECT
- THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF UNITS:
 - IN-PLANT VERIFIED REPORT
 - LABORATORY VERIFIED REPORT
 - WELDING VERIFIED REPORT
 THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS & SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNITS. NOTIFY ARCHITECT & DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR
- IN-PLANT INSPECTOR & MANUFACTURER SHALL FOLLOW THE REQUIREMENTS OF DSA IR16-1.13 & INCLUDE THE FOLLOWING INFORMATION ON ID TAG OF SHOP FABRICATED RELOCATABLE STRUCTURES:
 - THE DSA APPLICATION NUMBER & CBC EDITION UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED
 - THE MANUFACTURER OR BUILDINGS NAME
 - THE SERIAL NUMBER
 - THE DESIGN CLIMATE ZONE
 - THE DESIGN LIVE LOADS FOR THE ROOF & FLOOR
 - THE DESIGN WIND SPEED & EXPOSURE CATEGORY
 - THE SEISMIC DESIGN Ss
- FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC CHAPTER 33.

PROJECT DIRECTORY

OWNER:
BAKERSFIELD CITY SCHOOL DISTRICT
MARK LUQUE, SUPERINTENDENT
1300 BAKER ST, BAKERSFIELD, CA 93305
TEL: (861) 631-4600
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TEL: 559-436-0881
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MECHANICAL/PLUMBING ENGINEER:
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INTEGRATED DESIGNS BY SOMAM, Inc.
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EMAIL: llum@somam.com

CIVIL ENGINEER:
FREDDIE PORTER
PORTER & ASSOCIATES
1200 21ST ST
BAKERSFIELD, CA 93301
TEL: 661-327-0362

ELECTRICAL ENGINEER:
JIMPE ELECTRICAL ENGINEERING
5500 MING AVE., SUITE 251
BAKERSFIELD, CA 93309
TEL: 661-831-7851

STRUCTURAL:
DUSTIN LEE
CORNERSTONE STRUCTURAL
986 W ALLUVIAL AVE.
FRESNO, CA 93711
TEL: 661-327-0362
EMAIL: dlee@cseg.com

M.S. FIRE PROTECTION:
3644 S BAGLEY AVENUE
FRESNO, CA 93745
TEL: (559) 485-4400
EMAIL: richard@msfirepro.com

INSPECTOR OF RECORD

THIS PROJECT REQUIRES A CLASS 4 INSPECTOR FOR RELO INSTALLATION AND RBIP FOR IN PLANT. THE INSPECTOR OF RECORD SHALL BE DSA APPROVED AND CONFORM TO THE CLASSIFICATION CRITERIA AS PROVIDED IN INTERPRETATION OF REGULATIONS (IR) A-7, DATED SEPTEMBER 18, 2007.

THE INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT AND APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.

A "DSA CERTIFIED" PROJECT INSPECTOR 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.

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

BUILDING DATA

CLASSROOM BUILDINGS
OCCUPANCY = E
TYPE OF CONSTRUCTION = VB (SPRINKLERED)
TOTAL BUILDING AREA:
1 (E) BUILDING @ 11,449 S.F. = 13934 S.F. (INC O.H.)
1 BUILDINGS @ 2,709 S.F. EA. = 3,297 S.F. (INC O.H.)
TOTAL 17,231 S.F.
PER 2022 TABLE 506.2 ALLOWABLE AREA = 9,500 S.F.
4,204 PROPOSED < 9,500 ALLOWABLE = OK

FULLY AUTOMATIC FIRE ALARM W/ VOICE EVAC

VICINITY MAP

PROJECT SITE
MLK ELEMENTARY SCHOOL
1100 Citadel
Bakersfield, CA 93307

SYMBOLS

SECTION KEY
SECTION IDENTIFICATION
SHEET NUMBER

DETAIL KEY
DETAIL NUMBER
SHEET NUMBER

INTERIOR ELEVATION KEY
ELEVATION DIRECTION
ELEVATION IDENTIFICATION
SHEET NUMBER

ELEVATION DATUM
INDICATES HEIGHT IN RELATION TO 0'-0"

ROOM NUMBER/FINISH TAG
OFFICE ROOM NAME
100 ROOM NUMBER

WINDOW SCHEDULE KEY

KEYNOTE SCHEDULE KEY

DOOR SCHEDULE KEY

SEISMIC DESIGN
SEE STRUCTURAL SHEET S0.01 PROJECT DATA

DSA NOTES

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).

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

STATEMENT OF GENERAL CONFORMANCE

ARCHITECT'S STATEMENT FOR PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED IN THE SHEET INDEX AND CHECKED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DOCUMENTS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.

THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK).

SEE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL.

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

APPLICABLE:
 CIVIL MECHANICAL ELECTRICAL PLUMBING
 STRUCTURAL FIRE SUPPRESSION

I FIND THAT: ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE OF THE ARCHITECT/ENGINEER: [Signature]
DATE: 2/12/24
C-28966
EXPIRATION DATE: 5/31/25

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2022:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2023 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2021 CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2021 CALIFORNIA AMENDMENTS).
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2022 NFPA-72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)
- 2022 NFPA-80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES
- 2016 UL-464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES
- 1999 UL-521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
- 2002 (F2010) UL-1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED
- FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 36 AND CALIFORNIA FIRE CODE CHAPTER 30. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

SCOPE OF WORK

- ADDITION OF TWO TRANSITIONAL KINDERGARTEN CLASSROOMS WITH ASSOCIATED SITE WORK & UTILITIES

DEFERRED SUBMITTALS

- NONE

CALIFORNIA ENERGY CODE

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.

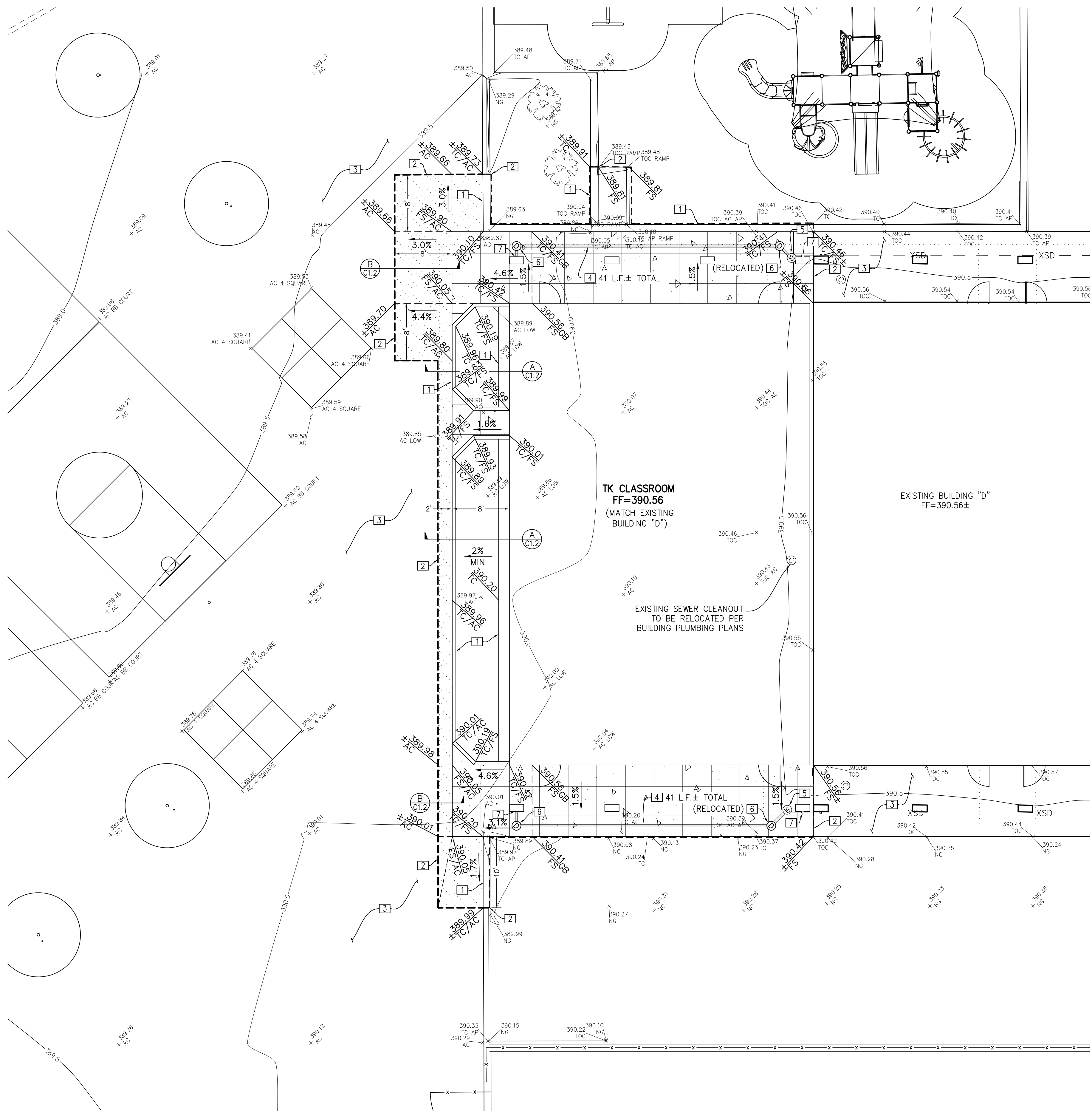
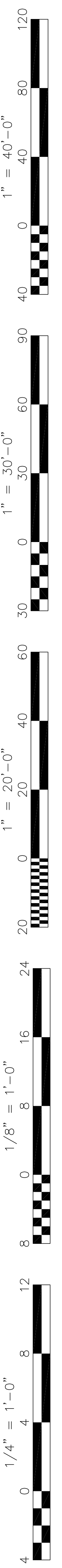
ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

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.

SHEET INDEX		SHEET INDEX	
SHT. NO.	DESCRIPTION	SHT. NO.	DESCRIPTION
GENERAL		MECHANICAL	
T1.01	TITLE SHEET	M0.01	GENERAL NOTES - SCHEDULES
	1 SHEET	M0.11	SITE FIRE PROTECTION PLAN
CIVIL		M2.11	MECHANICAL PLAN - DEMO
C1.1	GRADING PLAN	M2.12	MECHANICAL PLAN - PLUMBING
C1.2	NOTES & DETAILS	M3.11	MECHANICAL PLAN - HVAC
	2 SHEETS	M4.01	TITLE 24 DOCS
		M4.02	TITLE 24 DOCS
ARCHITECTURAL		8 SHEETS	
A0.01	SCHEDULES	ELECTRICAL	
A1.01	SITE PLAN	E0.01	GENERAL NOTES & SYMBOLS
A1.02	ENLARGED DEMOLITION SITE PLAN	E0.02	PANEL SCHEDULES
A1.03	ENLARGED SITE PLAN	E0.03	SITE FIRE ALARM RISER
A1.04	SITE DETAILS	E0.04	FIRE ALARM NOTES
A2.01	FLOOR PLAN	E0.05	FIRE ALARM CALCS AND MATRICES
A3.01	EXTERIOR ELEVATIONS	E0.06	INDOOR TITLE 24 FORMS
A3.02	SECTIONS	E0.07	OUTDOOR TITLE 24 FORMS
A4.01	ROOF PLAN	E1.00	ELECTRICAL FLOOR PLAN
A5.01	INTERIOR ELEVATIONS	E1.01	LIGHTING PLAN
A6.01	REFLECTED CEILING PLAN	E1.02	FIRE ALARM PLAN
A7.01	EXTERIOR DETAILS	E1.03	DATA AND COMM. PLAN
A7.02	EXTERIOR DETAILS	E2.00	FIRE ALARM SITE PLAN
A8.01	INTERIOR DETAILS		12 SHEETS
A8.02	INTERIOR DETAILS	FIRE SUPPRESSION	
A8.03	DOOR & WINDOW DETAILS	F1.01	FIRE SPRINKLER SITE PLAN & NOTES
A8.04	REFLECTED CEILING DETAILS	F2.01	FIRE SPRINKLER PIPING PLAN & RCP
A8.05	REFLECTED CEILING DETAILS	F3.01	FIRE SPRINKLER NOTES & DETAILS
	18 SHEETS		3 SHEETS
STRUCTURAL			59 SHEETS
S0.01	MAT. DATA & PROJECT INFORMATION		
S0.02	TESTING & SPECIAL INSPECTION		
S1.01	TYPICAL DETAILS NO. 1		
S1.02	TYPICAL DETAILS NO. 2		
S1.03	TYPICAL DETAILS NO. 3		
S1.04	TYPICAL DETAILS NO. 4		
S1.05	TYPICAL DETAILS NO. 5		
S1.06	TYPICAL DETAILS NO. 6		
S1.07	TYPICAL DETAILS NO. 7		
S1.08	TYPICAL DETAILS NO. 8		
S2.01	FOUNDATION PLAN		
S2.02	ROOF FRAMING PLAN		
S3.01	BUILDING SECTIONS		
S4.01	FOUNDATION DETAILS		
S4.02	ROOF FRAMING DETAILS		
			15 SHEETS



GRADING CONSTRUCTION NOTES

- 1 CONSTRUCT 4" MIN. CONCRETE SIDEWALK/FLATWORK, REFER TO ARCHITECT'S PLAN FOR DIMENSIONS NOT SHOWN. COMPACT 12" MIN. SUB-GRADE TO 90% MAX DENSITY.
- 2 CONSTRUCT MIN. 0.35" ASPHALT CONCRETE PAVING OVER MIN. 0.40' CLASS II CRUSHED AGGREGATE BASE OVER MIN. 12" NAT. GRD. COMPACTED TO 95% MAX. DENSITY.
- 3 CONSTRUCT MOW CURB PER ARCHITECTURAL PLANS.
- 4 SAWCUT TO NEAT/CLEAN VERTICAL FACE. MATCH EXISTING ASPHALT/CONCRETE GRADE.
- 5 EXISTING ASPHALT/CONCRETE TO REMAIN, PROTECT IN PLACE
- 6 INSTALL 4" PVC STORM DRAIN PIPE @ MIN 1.0% SLOPE (DISTANCE SHOWN) FOR ROOF DRAIN CONNECTION. VERIFY ROOF DRAIN LOCATION WITH BUILDING PLANS.
- 7 TIE INTO EXISTING STORM DRAIN AND RELOCATE EXISTING CLEANOUT. CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF EXISTING STORM DRAIN IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
- 8 CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (C1.2) MARK LID "DRAIN"
- 9 CONNECT TO BUILDING ROOF DRAIN DOWN SPOUT. VERIFY ROOF DRAIN LOCATION WITH BUILDING PLANS.

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. ALL REMAINING UTILITY BOXES, VAULTS, MANHOLES, CLEANOUTS, ETC. SHALL BE ADJUSTED TO FINISH GRADE.
2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF EXISTING EQUIPMENT AND UTILITIES IN CONFLICT WITH CONSTRUCTION WITH OWNER PRIOR TO CONSTRUCTION. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
6. GRADING DESIGN ASSUMES STEM CURB IS CONSTRUCTED ON ALL EXTERIOR WALLS.
7. BUILDING PLUMBER SHALL CONNECT ROOF DRAIN TO STORM DRAIN SYSTEM. CONTRACTOR TO VERIFY EXACT LOCATION ON BUILDING PLANS
8. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.
9. CONTRACTOR SHALL PROVIDE AND INSTALL ALL FITTINGS NECESSARY INCLUDING BUT NOT LIMITED TO ELBOWS, WYES, REDUCERS, TEES, PREFABRICATED ANGLED CONNECTIONS ETC.

BENCHMARK USED:

TOP OF CONCRETE MONUMENT IN LAMPPOLE AT THE EAST QUARTER CORNER OF SECTION 5, 30/28 M.D.M. LYING 29.45' SOUTH OF THE CENTERLINE INTERSECTION OF EAST BELLE TERRACE AND COTTONWOOD ROAD.
ELEVATION = 385.41 (USGS DATUM) PER TRACT 6378 PLANS

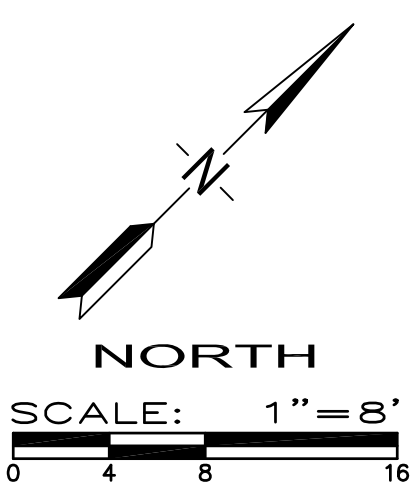
ABBREVIATIONS

TYPICAL ALL SHEETS UNLESS SUPERSEDED BY SHEET DEFINITION

~	ON THIS SHEET	F S	FINISHED SURFACE
AB	AGGREGATE BASE	FUT	FUTURE
AC	TOP OF ASPHALT CONCRETE PAVEMENT	G	GAS
AF	ACRE-FOOT	GB	GRADE BREAK
ASB	AGGREGATE SUB-BASE	HW	HIGH WATER
BDRY	BOUNDARY	L	LENGTH
BTM	BOTTOM	LF	LINEAR FEET
BW	BACK OF SIDEWALK	MAX	MAXIMUM
CB	CATCH BASIN	MH	MANHOLE
CL	CENTERLINE	MIN	MINIMUM
CONC	CONCRETE	NS or OG	NATURAL/ORIGINAL GROUND
CY	CUBIC YARDS	REQ'D	REQUIRED
DWY or D/A	DRIVEWAY OR DRIVE APPROACH	RT-OF-WAY	RIGHT-OF-WAY
EA	EACH	SD	STORM DRAIN
EL or ELEV	ELEVATION	SF	SQUARE FEET
EP	EDGE OF ASPHALT CONCRETE PAVEMENT	SWR	SANITARY SEWER
ESMT	EASEMENT	TC	TOP OF CURB
EX	EXISTING	TOC	TOP OF CONCRETE
FF	FINISHED FLOOR	TOG	TOP OF GRADE/CATCH BASIN INLET
FG	FINISHED GROUND	TYP	TYPICAL
FL	FLOWLINE	WTR	WATER
FP	FINISHED PAD	±	MATCH EXISTING GRADE

LEGEND:

- DESIGN ELEVATION
- DESIGN GRADE
- PROPOSED STORM DRAIN
- EXISTING CHAIN-LINK FENCE
- EXISTING STORM DRAIN CLEANOUT
- EXISTING SEWER CLEAN-OUT
- EXISTING TREE (SIZE VARIES)
- EXISTING CONTOUR WITH ELEVATION
- EXISTING GRADE
- EXISTING STORM DRAIN LINE



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Stamp:
REGISTERED PROFESSIONAL ENGINEER
REG. W. PORTER
RCE 74059
CIVIL
STATE OF CALIFORNIA

Sheet Title:
GRADING PLAN

Job No.:
5593

Sheet No.:
C1.1

Release: DSA SUBMITTAL

J:\3315\Civil Improvements\3315_C1.dwg 07/09/24 matthewcarson

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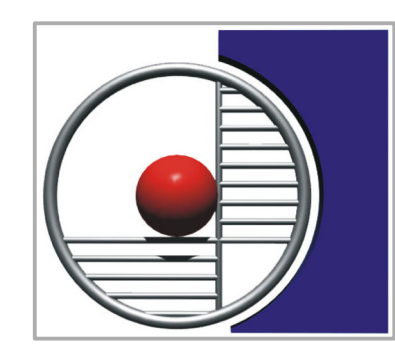
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**NOTES &
 DETAILS**

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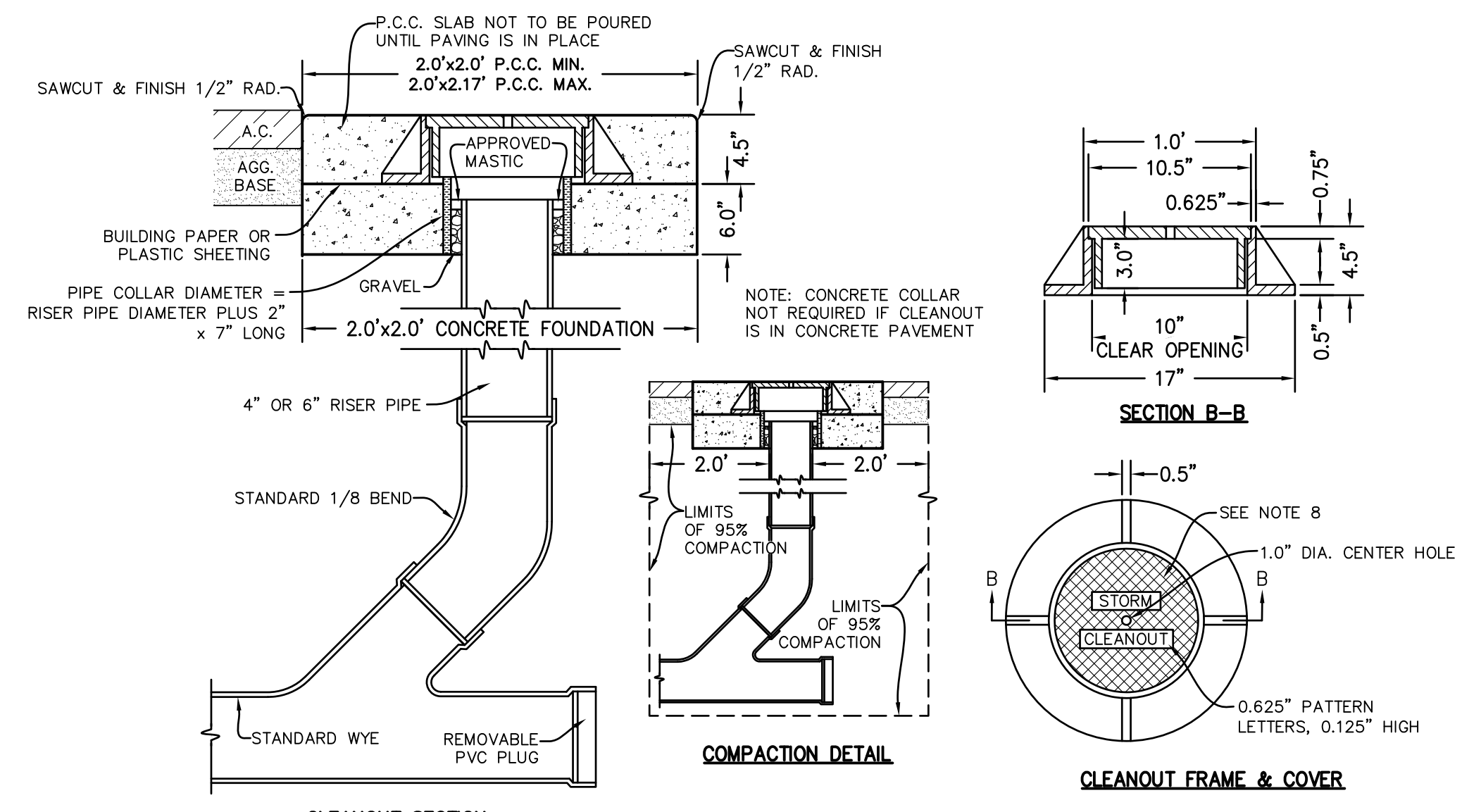
Sheet No.:

C1.2

Release: DSA SUBMITTAL

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN, THE CALIFORNIA BUILDING CODE, CITY OF ARVIN ORDINANCE, LATEST EDITION AND STANDARDS PERTAINING THERETO. THESE DOCUMENTS SHALL BE MADE A PART HEREOF.
2. ALL CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY OR CITY EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF ARVIN STANDARDS AND STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION. THESE STANDARDS, DRAWINGS AND DETAILS SHALL BE CONSIDERED A PART OF THESE PLANS AND THE CONTRACTOR SHALL OBTAIN A COPY FOR HIS USE.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS, DATA AND MEASUREMENTS AT THE BUILDING SITE PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. PORTER & ASSOCIATES, INC. MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
4. EXISTING UTILITY AND UNDERGROUND LINES HAVE BEEN SHOWN ON THIS PLAN ACCORDING TO AVAILABLE RECORDS. THE ENGINEER IS NOT RESPONSIBLE FOR POSSIBLE ERRORS OR OMISSIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF ANY WORK. UNDERGROUND SERVICE ALERT (U.S.A.: 1-800-227-2600) SHALL BE CONTACTED AT LEAST TWO WORKING DAYS PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
5. ANY EXISTING IMPROVEMENTS OR UTILITIES THAT ARE REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE GOVERNING AUTHORITY.
6. IF A PROBLEM OR CONFLICT SHOULD ARISE DURING THE COURSE OF THE PROJECT, IT IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY PRIOR TO ANY FURTHER WORK.
7. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY FOR A COMPLETE AND FUNCTIONAL PRODUCT.
8. ALL WORK WHICH IS DEFECTIVE IN ITS CONSTRUCTION OR DEFICIENT IN ANY OF THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REMEDIED, OR REMOVED AND REPLACED BY THE CONTRACTOR IN AN ACCEPTABLE MANNER, AND NO COMPENSATION WILL BE ALLOWED FOR SUCH CORRECTION.
9. IN THE EVENT CONSTRUCTION STAKING BASED ON THE CONSULTANT'S PLANS, DRAWINGS OR OTHER DOCUMENTS IS ACCOMPLISHED BY ANYONE OTHER THAN THE CONSULTANT, THE OWNER OR CONTRACTOR SHALL NOTIFY THE BUILDING OFFICIAL IN WRITING AS TO THE CHANGE OF ENGINEER IN RESPONSIBLE CHARGE.
10. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING EROSION, SEDIMENTATION & DUST CONTROL PLAN AND STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION AND THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
11. IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE DRAWINGS AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWINGS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID PRICE FOR THE PROJECT.
12. PORTER & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ANY AND ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY PORTER & ASSOCIATES, INC.



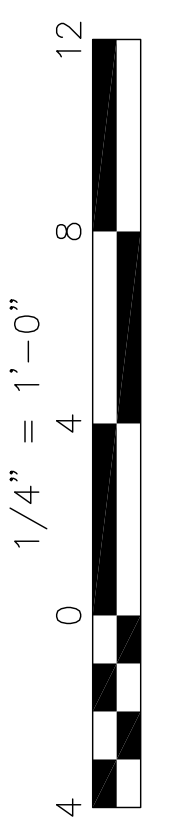
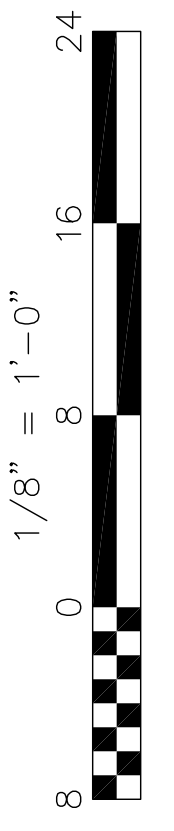
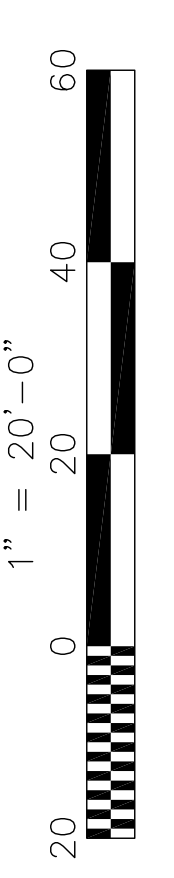
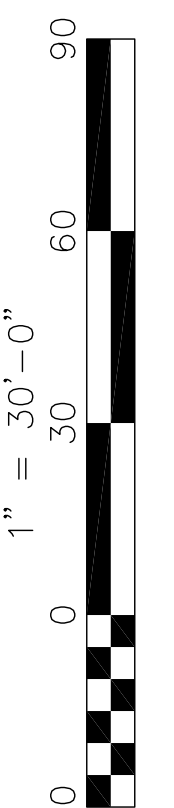
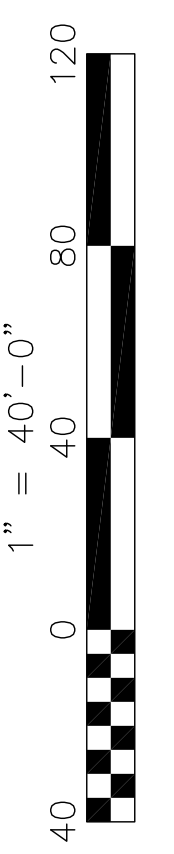
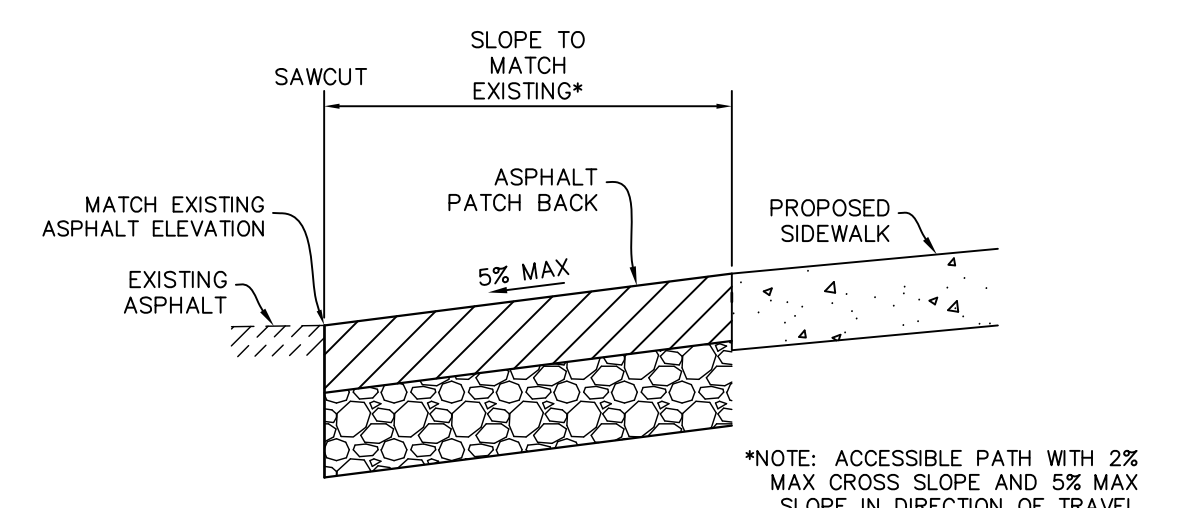
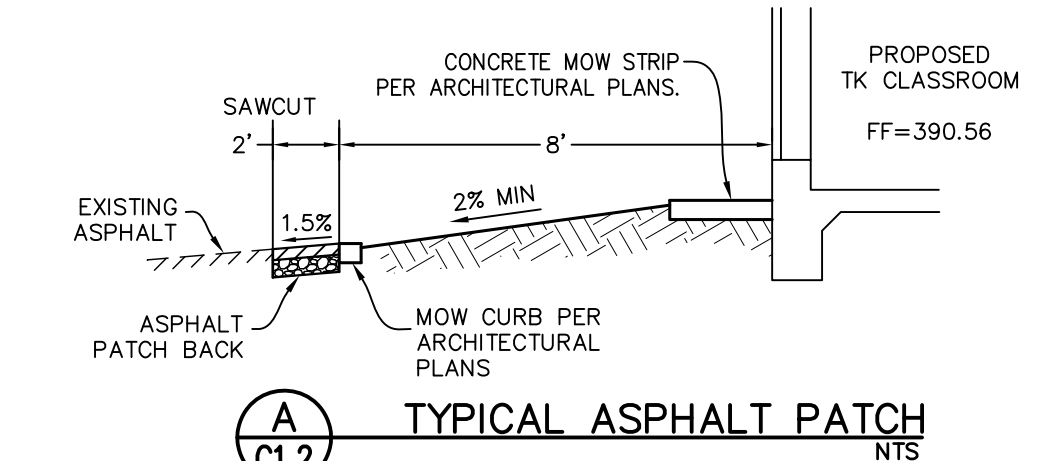
CLEANOUT NOTES:

1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION", APPROVED CURRENT EDITION.
2. ALL CONCRETE SHALL BE CLASS "A".
3. CONCRETE SHALL HAVE NO ADDITIVES UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
4. CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND PER SEC. 90-7.01B OF THE STANDARD SPECS.
5. TOP OF SLAB SHALL BE TROWELED SMOOTH AND GIVEN A LIGHT BROOM FINISH.
6. 95% RELATIVE COMPACTION IS REQUIRED FOR ALL BACKFILL WITHIN 24" OF THE RISER PIPE.
7. BUILDING PAPER OR PLASTIC SHALL BE PLACED BETWEEN THE 6" CONCRETE FOUNDATION AND 4.5" SLAB.
8. FILL CAVITY BETWEEN PIPE AND COLLAR WITH GRAVEL TO WITHIN 1/2" OF TOP OF PIPE. CAULK REMAINING 1/2" WITH APPROVED MASTIC TO TOP OF PIPE FOR WATER TIGHT SEAL.
9. COLLAR SHALL BE VCP, ABS, OR PVC PIPE.
10. FINISHED PCC SLAB TO BE 1/8" MIN. AND 1/4" MAX. BELOW FINISHED PAVING SURFACE.

CLEANOUT COVER NOTES:

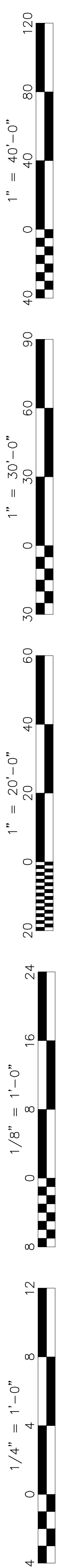
1. ALL FRAMES AND COVERS SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS PRIOR TO DELIVERY.
2. THE SEATS OF FRAMES AND BEARING FACES OF THE COVERS SHALL BE MACHINED FOR A SMOOTH NON-ROCKING FIT BETWEEN THE TWO CASTINGS.
3. CASTINGS SHALL BE THOROUGHLY CLEANED AND DIPPED TWICE IN A QUICK-DRYING, JET-BLACK ASPHALTIC COMPOUND TO PROVIDE A PROTECTIVE COATING.
4. ALL FRAMES AND COVERS SHALL BE GRAY CAST IRON, FREE FROM WARPS, CRACKS, HOLES, SWELLS AND COLD-SHOT, AND SHALL HAVE A WORKMANLIKE FINISH. HIGHWAY LOADING SHOULD BE HS 20-44.
5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM: A-48 (LATEST REVISION), CLASS No. 30B.
6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER.
7. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING OF HS 20-44.
8. 2.0"x1.0" DIAMOND MAT 0.125" DEEP.

**C1.2 STORM DRAIN CLEANOUT DETAIL
 N.T.S.**



PORTER & ASSOCIATES, INC.
 ENGINEERING & SURVEYING
 1707 Eye Street, Suite 111
 Bakersfield, California 93301
 661.327.0362

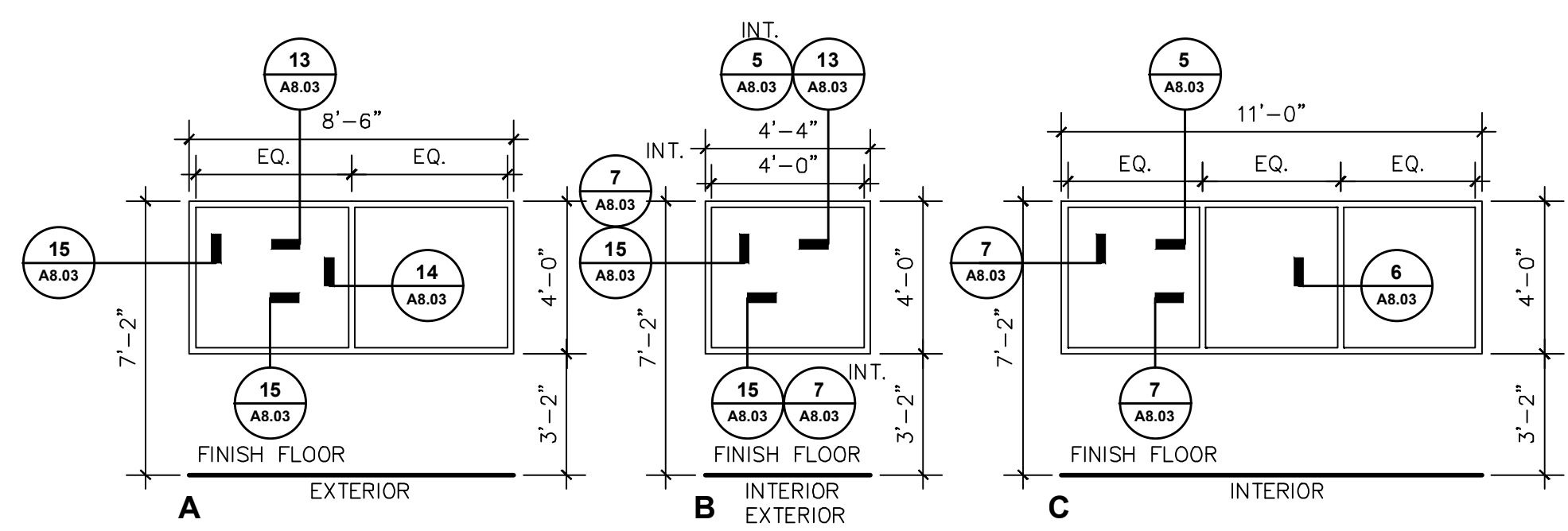
J:\3315\Civil Improvements\3315_C1.dwg 07/09/24 matthewcarson



WINDOW SCHEDULE

TYPE	FRAME SIZE WIDTH X HEIGHT	FRAME		GLASS TYPE	FIRE RAT'G	DETAILS				REMARKS
		MAT	FIN			HEAD	JAMB	SILL	MULLION	
A	8'-6" X 4'-0"	HM	P	INSUL	-	13/A8.03	15/A8.03	15/A8.03	14/A8.03	
B	4'-4" X 4'-0"	HM	P	INSUL	-	13/A8.03	15/A8.03	15/A8.03	-	
C	11'-0" X 3'-8"	HM	P	INSUL	-	5/A8.03	7/A8.03	7/A8.03	6/A8.03	

WINDOW TYPES



ABBREVIATIONS

HM	HOLLOW METAL
P	PAINT (SEE SPECS)
EQ	EQUAL
INSUL	INSULATED

DOOR SCHEDULE

DOOR NO.	TYPE	DOOR OPENING SIZE	DOOR				FRAME		GLASS SIZE	LOUVER	U/L	HARDWARE	DETAILS				SIGNAGE	REMARKS
			THK	MAT	CORE	FIN.	MAT	FIN.					HEAD	JAMB	JAMB	SILL		
1A	A	3'-0" X 7'-0"	1 3/4"	HM	INSUL	P	HM	P	6'X30"	-	-	1	9/A8.03	10/A8.03	10/A8.03	11/A8.03	1.4.8.5/A8.01	
1B	A	3'-0" X 7'-0"	1 3/4"	HM	INSUL	P	HM	P	6'X30"	-	-	1	9/A8.03	10/A8.03	10/A8.03	11/A8.03	1.4.8.5/A8.01	
2	B	3'-0" X 7'-0"	1 3/4"	WD	SC	FF	HM	P	6'X30"	-	-	2	3/A8.03	4/A8.03	4/A8.03	8/A8.03	5/A8.01	
3	C	3'-0" X 7'-0"	1 3/4"	WD	SC	FF	HM	P	24'X30"	-	-	3	3/A8.03	4/A8.03	4/A8.03	-	5/A8.01	
4	B	3'-0" X 7'-0"	1 3/4"	WD	SC	FF	HM	P	6'X30"	-	-	4	3/A8.03	4/A8.03	4/A8.03	12/A8.02	2/A8.01	
5	B	3'-0" X 7'-0"	1 3/4"	WD	SC	FF	HM	P	6'X30"	-	-	4	3/A8.03	4/A8.03	4/A8.03	12/A8.02	2/A8.01	
6	C	3'-0" X 7'-0"	1 3/4"	WD	SC	FF	HM	P	24'X30"	-	-	5	3/A8.03	4/A8.03	4/A8.03	-	5/A8.01	
7	C	3'-0" X 7'-0"	1 3/4"	WD	SC	FF	HM	P	24'X30"	-	-	3	3/A8.03	4/A8.03	4/A8.03	-	5/A8.01	
8	B	3'-0" X 7'-0"	1 3/4"	WD	SC	FF	HM	P	6'X30"	-	-	2	3/A8.03	4/A8.03	4/A8.03	8/A8.03	5/A8.01	
9A	A	3'-0" X 7'-0"	1 3/4"	HM	INSUL	P	HM	P	6'X30"	-	-	1	9/A8.03	10/A8.03	10/A8.03	11/A8.03	1.4.8.5/A8.01	
9B	A	3'-0" X 7'-0"	1 3/4"	HM	INSUL	P	HM	P	6'X30"	-	-	1	9/A8.03	10/A8.03	10/A8.03	11/A8.03	1.4.8.5/A8.01	

DOOR ABBREVIATIONS

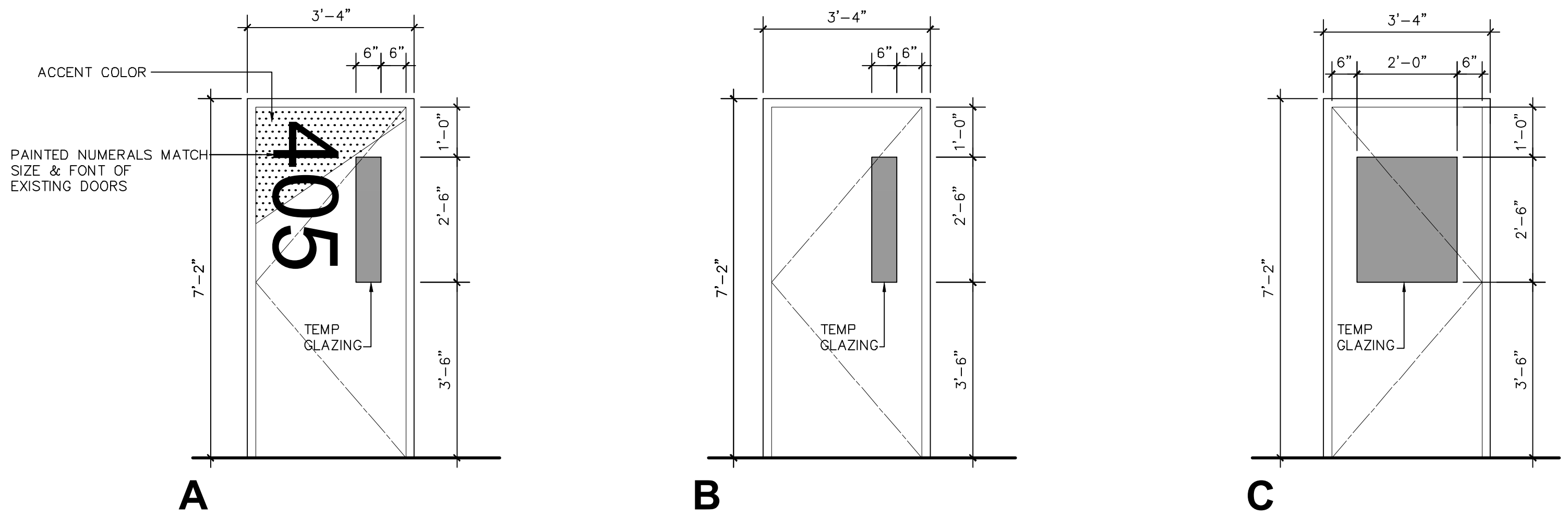
FF	FACTORY FINISH
HM	HOLLOW METAL
INSUL	INSULATED
L	LAMINATED
P	PAINT (SEE SPECS)
SC	SOLID CORE
WD	WOOD

ACCESSIBILITY NOTE

A. THE MAXIMUM EFFORT TO OPERATE EXTERIOR DOORS SHALL NOT EXCEED 5 POUNDS, CBC 11B-404.2.9 AT ACCESSIBLE ENTRANCES

B. CBC 1010.1.11 - NEW BUILDINGS ON A K-12 PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS OF SECTION 1010.1.9. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.

DOOR TYPES



MATERIAL AND FINISH SCHEDULE

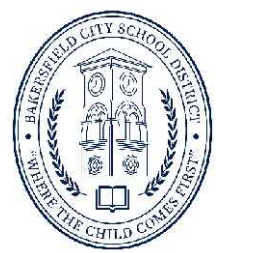
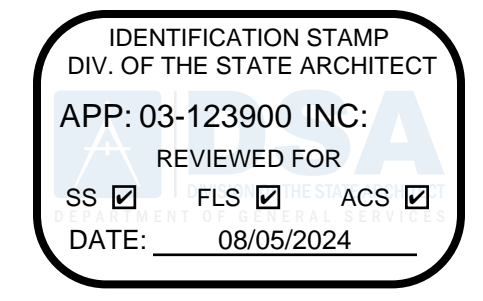
Room No.	ROOM NAME	FLOOR			BASE			WAINSCOT			WALLS				CEILING			REMARKS			
		MAT	FIN	HT	MAT	FIN	HT	MAT	FIN	HT	NORTH	EAST	SOUTH	WEST	MAT	FIN	HT				
TK1	CLASSROOM	CPT	FF	RTB	FF	4"	-	-	-	TB	FF	TB	FF	TB	FF	TB	FF	SAT	FF	9'-0"	WALK OFF CARPET TILES AT ENTRANCES VCT AT WET AREAS
TK1.1	STORAGE	VCT	FF	RTB	FF	4"	-	-	-	GB	P	GB	P	GB	P	GB	P	SAT	FF	9'-0"	
TK1.2	WORKROOM	VCT	FF	RTB	FF	4"	-	-	-	TB	FF	TB	FF	TB	FF	TB	FF	SAT	FF	9'-0"	
TK1.3	HALLWAY	VCT	FF	RTB	FF	4"	-	-	-	TB	FF	TB	FF	TB	FF	TB	FF	SAT	FF	9'-0"	
TK1.4	UNISEX TOILET	CT	FF	CTB	FF	6"	-	-	-	CT	FF	CT	FF	CT	FF	CT	FF	GB	P	8'-0"	
TK1.5	UNISEX TOILET	CT	FF	CTB	FF	6"	-	-	-	CT	FF	CT	FF	CT	FF	CT	FF	GB	P	8'-0"	
TK2	CLASSROOM	CPT	FF	RTB	FF	4"	-	-	-	TB	FF	TB	FF	TB	FF	TB	FF	SAT	FF	9'-0"	WALK OFF CARPET TILES AT ENTRANCES VCT AT WET AREAS
TK2.1	STORAGE	VCT	FF	RTB	FF	4"	-	-	-	GB	P	GB	P	GB	P	GB	P	SAT	FF	9'-0"	

M&F NOTES

- ALL FLOOR PLAN ROOM NAMES AND NUMBERS ARE FOR CONSTRUCTION INFORMATION ONLY. THE CONTRACTOR SHALL COORDINATE ACTUAL ROOM NAMES & NUMBERS WITH THE OWNER AND ARCHITECT PRIOR TO ORDERING ANY ROOM SIGNAGE.
- SEE SPECIFICATIONS FOR ADDITIONAL FINISH MATERIAL INFORMATION.
- REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
- FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT AS PER CBC 11B-302.1
- ALL GLAZING TO COMPLY WITH CBC 2406.3
- GYP BOARD TEXTURE TO BE LIGHT SPAY PER SPECIFICATIONS

M&F ABBREVIATIONS

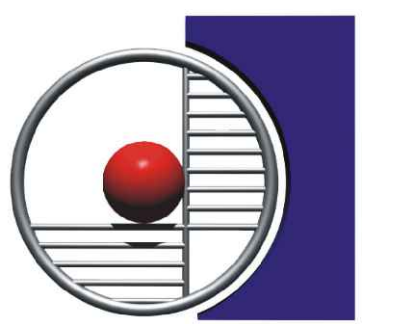
- SAT = SUSPENDED ACCOUSTICAL TILE CEILING
- CPT = CARPET
- CT = CERAMIC TILE
- CTB = CERAMIC TILE W/INTEGRAL COVE
- FF = FACTORY FINISH
- GB = GYPSUM BOARD
- P = PAINT SYSTEM - SEE SPECIFICATIONS
- RTB = RUBBER TOPSET BASE
- VCT = VINYL COMPOSITION TILE
- TB = TACK BOARD



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST.
BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
1100 Citadel
Bakersfield, CA 93307



integrated designs
by SOMAM, Inc.
ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
E: design@somam.com
integrateddesigns.com

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Stamp:



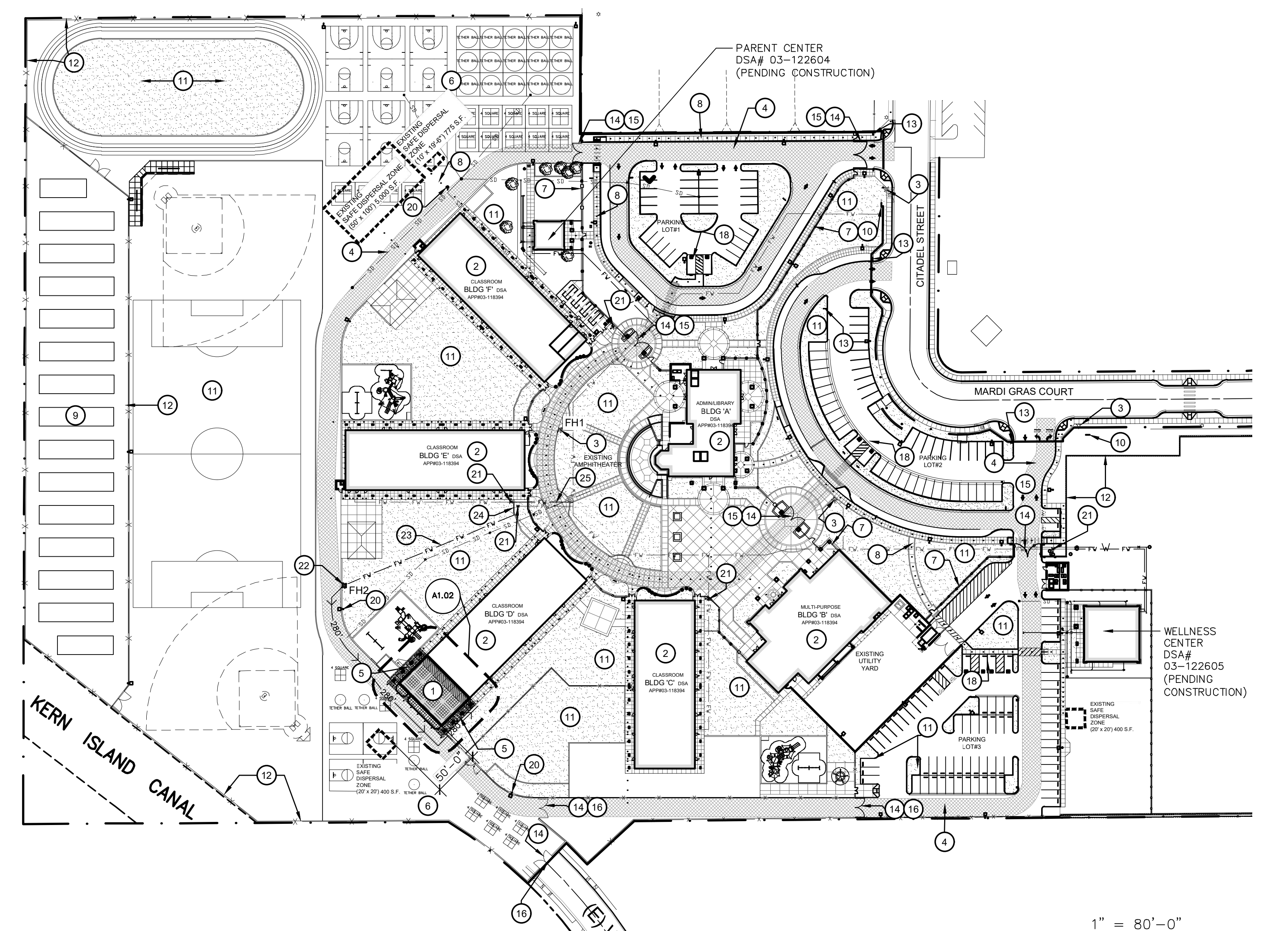
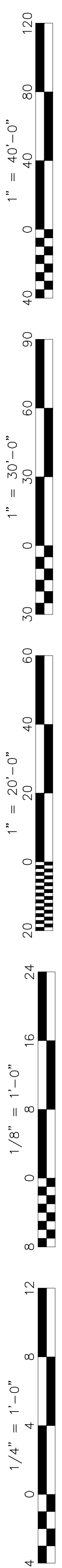
Sheet Title:

SCHEDULES

Job No.: **5593**

Sheet No.: **A0.01**

Release: DSA SUBMITTAL Issue Date: 7/24/24



SITE PLAN
TRANSITIONAL KINDERGARTEN

ACCESSIBILITY NOTES

THE PATH OF TRAVEL (P.O.T.) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE 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 1) HAVE BEEN IDENTIFIED AND 2) 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 SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT. ARCHITECT HAS INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE ACCESSIBLE ROUTE:

- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE
- FREE OF ABRUPT LEVEL CHANGES EXCEEDING 1/4" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4"
- WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE
- WITH A RUNNING SLOPE OF 1:20 (5%) OR LESS AND WITH A CROSS SLOPE OF 1:50 (2%) OR LESS OR A RAMP WITH A RUNNING SLOPE OF 1:12 (8.33%) AND A CROSS SLOPE OF 1:50 (2%) WITH APPROPRIATE REQUIREMENTS AS DETAILED WITHIN THIS SET OF DOCUMENTS.
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE

GENERAL NOTES

A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO BID. IF ANY DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF LAYOUTS AND ESTABLISHED LOCATIONS OF BURIED UTILITY LINES. ANY UTILITIES REQUIRING RELOCATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. CONTACT APPLICABLE GOVERNING AGENCIES REGARDING ARRANGEMENT AND COORDINATION OF WORK.

C. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY INFORMATION RETEST DUE TO INITIAL FAILURE. REFER TO RECOMMENDATIONS IN GEOTECHNICAL REPORT DATED 11/1/2017 BY KRAZAN & ASSOCIATED FOR PROJECT NO. 022-17101.

D. PROJECT INSPECTOR SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.

E. A COPY OF TITLE 24, ALL PARTS APPLICABLE, TO BE KEPT AT THE JOB SITE AT ALL TIMES.

F. ADDENDA SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE) AND APPROVED BY DSA.

G. CONSTRUCTION CHANGE DOCUMENTS SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE), OWNER, AND APPROVED BY DSA.

H. TESTING LAB SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.

I. ALL COMPLETED WORK SURFACES DISTURBED OR DAMAGED BY SUBSEQUENT WORK SHALL BE REPAIRED IN KIND, TEXTURED AND FINISHED TO MATCH ADJACENT SURFACES.

J. PROVIDE 2" MIN. PVC SLEEVES BELOW WALKS FOR FUTURE SPRINKLERS PER DETAIL 16A1.04.

K. NEW CONCRETE WALKS SHALL HAVE SLOPES OF NOT TO EXCEED 1 IN 20 IN THE DIRECTION OF PATH OF TRAVEL AND 1:50 FOR CROSS SLOPE. PROVIDE CONTROL JOINTS (C.J.) AT 10'-0" O.C. MAX. AND EXPANSION JOINTS NOT TO EXCEED 30" MAX. OR CLOSER WHERE INDICATED. PROVIDE MEDIUM BROOM FINISH ON ALL WALKS.

L. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ADJACENT FACILITIES FROM DAMAGE INCLUDING BUT NOT LIMITED TO EXISTING FOUNDATIONS SLAB-ON-GRADE, PAVEMENT, UTILITIES, STREETS, ETC.

M. THE GENERAL CONTRACTOR SHALL REFER TO & COMPLY WITH THE GEOTECHNICAL REPORT & SUPPLEMENTS PRIOR TO SITE DEMOLITION WORK & EARTHWORK.

N. CONTRACTORS SHALL REVIEW AND COORDINATE ALL SITE WORK SHOWN ON ARCHITECTURAL DRAWINGS WITH CIVIL, ELECTRICAL, MECHANICAL, LANDSCAPE AND OTHER DRAWINGS AND SPECIFICATIONS PRIOR TO BID AND CONSTRUCTION THAT WILL INCLUDE OTHER WORK NOT SHOWN ON ARCHITECTURAL DRAWINGS. SHOULD CONTRADICTIONS OCCUR, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO BID. OTHERWISE CONTRACTORS SHALL BE RESPONSIBLE TO PROVIDE THE MORE RESTRICTIVE REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. 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 imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

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

PROJECT INFORMATION

School District/Owner: Bakersfield City School District
 Project Name/School: Dr. Martin Luther King Jr. Elementary School - TRANSITIONAL KINDERGARTEN
 Project Address: 1100 Citadel, Bakersfield, CA 93307

FIRE & LIFE SAFETY INFORMATION

1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Refer to the following website for FHSZ locations: <http://high.fire.ca.gov/FHSZ/>

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

Moderate High Very High WIFA

DSIS DSA 810 (revised 12/26/20) DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4

DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

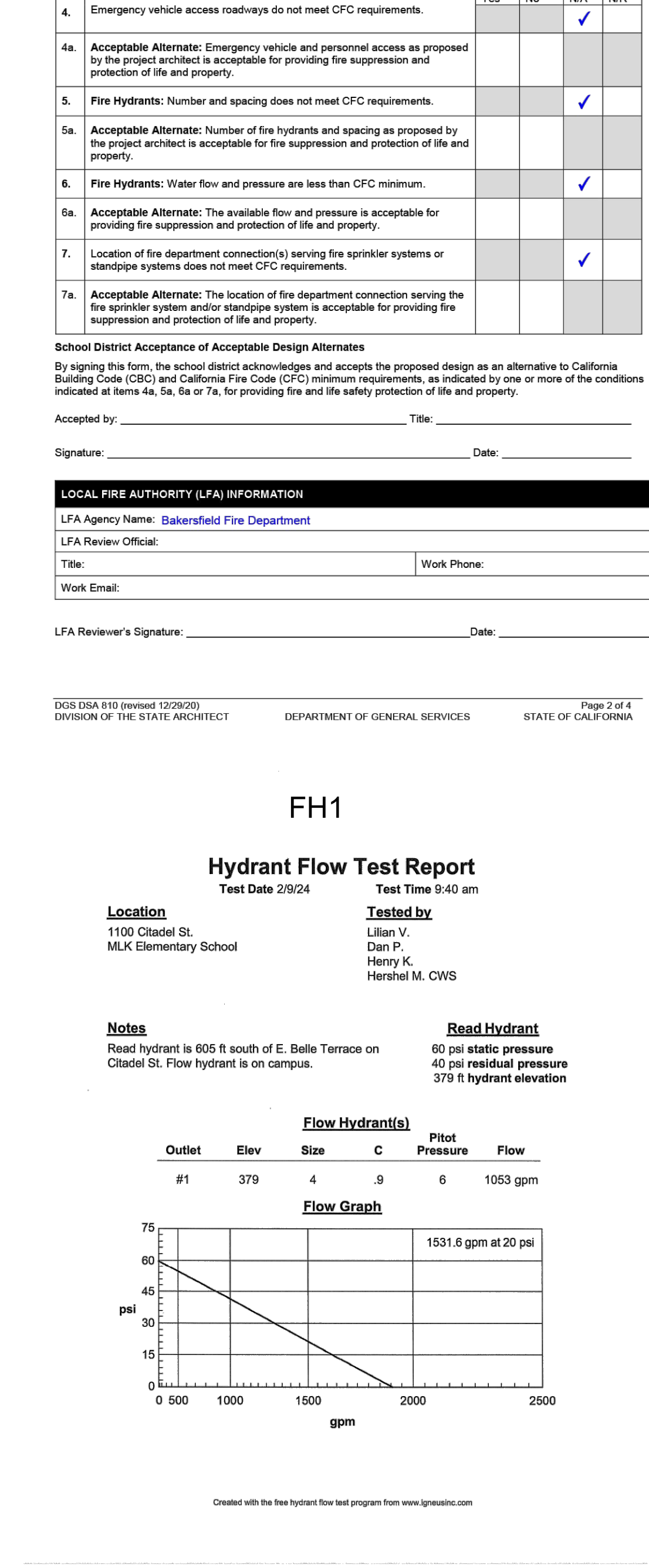
Accepted by: _____ Title: _____
 Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: Bakersfield Fire Department
 LFA Review Official: _____
 Title: _____ Work Phone: _____
 Work Email: _____

LFA Reviewer's Signature: _____ Date: _____

DSIS DSA 810 (revised 12/26/20) DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 2 of 4



- ### KEY NOTES
- NEW BUILDING UNDER THIS APPLICATION
 - EXISTING BUILDINGS UNDER DSA APP # 03-118394
 - (E) FIRE HYDRANT (FH1).
 - (E) FIRE TRUCK ACCESS LANE (20'-0" WIDE MIN).
 - NEW CONCRETE SIDEWALK
 - (E) HARD COVER PLAY AREA
 - (E) 8" HIGH DECORATIVE STEEL FENCE
 - ACCESSIBLE PATH OF TRAVEL
 - (E) SOLAR ARRAY.
 - (E) BACK-FLOW PREVENTER w/FIRE DEPARTMENT CONNECTION (FDC). -SEE DSA #03-118394
 - (E) LANDSCAPING & IRRIGATION
 - (E) 8" HIGH CHAINLINK FENCE
 - (E) TOWAWAY ENTRANCE SIGN. UNDER DSA APP# #02-118394
 - (E) KNOX BOX KEY VAULT PER LOCAL FIRE AUTHORITY REQUIREMENTS, TYP. AT ALL GATES IN FIRE TRUCK ACCESS ROAD
 - 22' WIDE DECOR. STEEL DBL. GATE.
 - (E) 20'-0" WIDE DOUBLE CHAINLINK GATE
 - NOT USED
 - (E) ADA PARKING STALLS PER DSA # 03-118294
 - (N) SITE LIGHT, SEE ELECTRICAL SHEETS
 - (E) SITE LIGHTING
 - (E) P.I.V.
 - (N) FIRE HYDRANT (FH2), SEE M1.01, of 3'x3' 3" THICK CONCRETE PAD. -SEE 1/A1.04 (SIM).
 - (N) 6" FIRE WATER LINE (FW), SEE M1.01.
 - REMOVED AND REPLACE (E) CONCRETE MOWSTRIP AS NEEDED FOR (N) FW LINE.
 - REMOVED (E) 4" FW LINE AND REPLACE WITH (N) 8" FW LINE, SEE M1.01.

SAFE DISPERSAL AREA

TRANSITIONAL KINDERGARTEN CLASSROOM 1 = 964 SF
 TRANSITIONAL KINDERGARTEN CLASSROOM 2 = 964 SF
 TOTAL SF = 1928 SF

1928 SF / 20 SF PER OCCUPANT = 96 OCC
 96 OCC x 5 SF PER OCC = 482 SF REQ'D
 500 SF (20' x 25') PROVIDED = OK

NOTE:

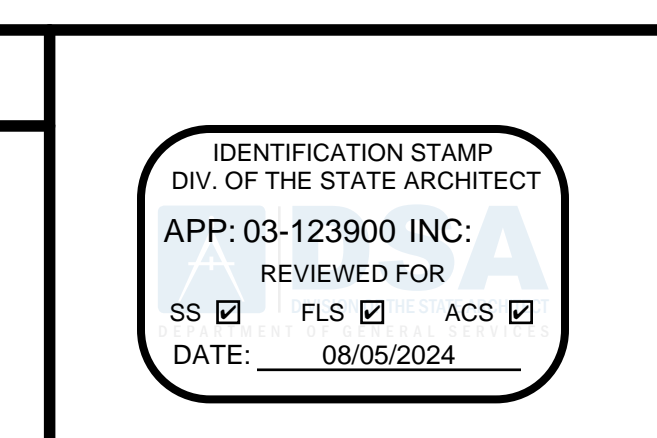
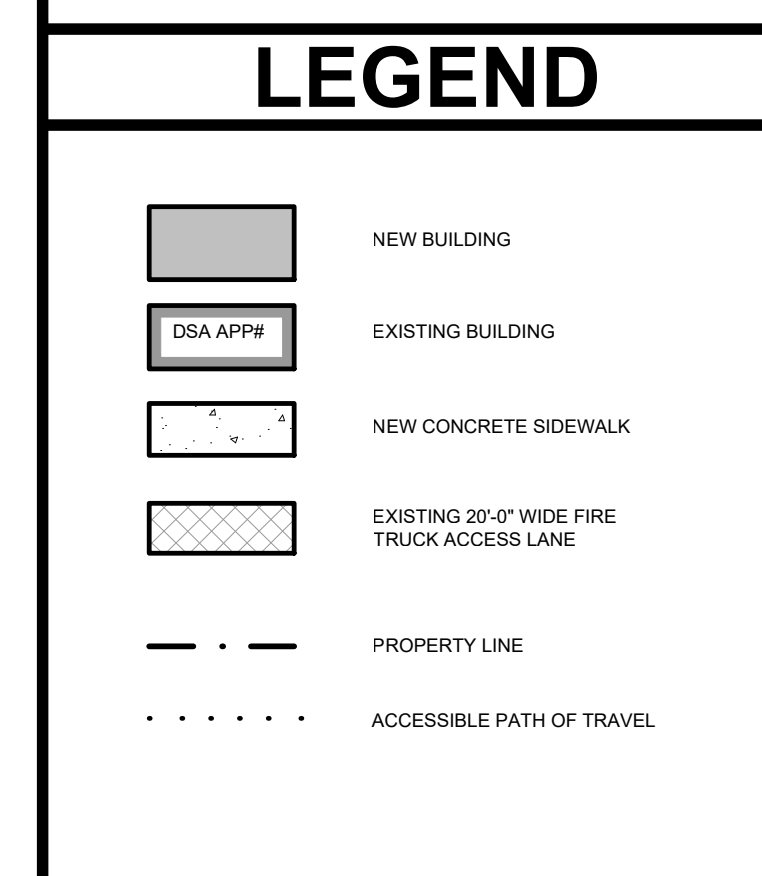
- SAFE DISPERSAL AREA MUST BE 50' AWAY FROM ANY BUILDING. DISPERSAL AREA SHALL BE PROVIDED WITH A SAFE AND UNOBSTRUCTED PATH OF TRAVEL FROM ANY BUILDING.
- SEE ELECTRICAL FOR SAFE DISPERSAL AREA LIGHTING.

PARKING LOTS

EXISTING LOT #1 - PER DSA #03-118394
 PARKING STALLS: 30
 ADA STALLS: 2 (1 VAN)
 TOTAL ADA REQUIRED: 2

EXISTING LOT #2 - PER DSA #03-118394
 PARKING STALLS: 48
 ADA STALLS: 2 (1 VAN)
 TOTAL ADA REQUIRED: 2

EXISTING LOT #3 - PER DSA #03-118394
 TOTAL STALLS: 70
 ADA PARKING: 4 (1 VAN)
 TOTAL ADA REQUIRED: 3



BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
 BAKERSFIELD CA 93305

TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
 1100 Citadel
 Bakersfield, CA 93307

integrated designs
 by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

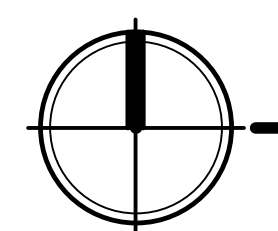
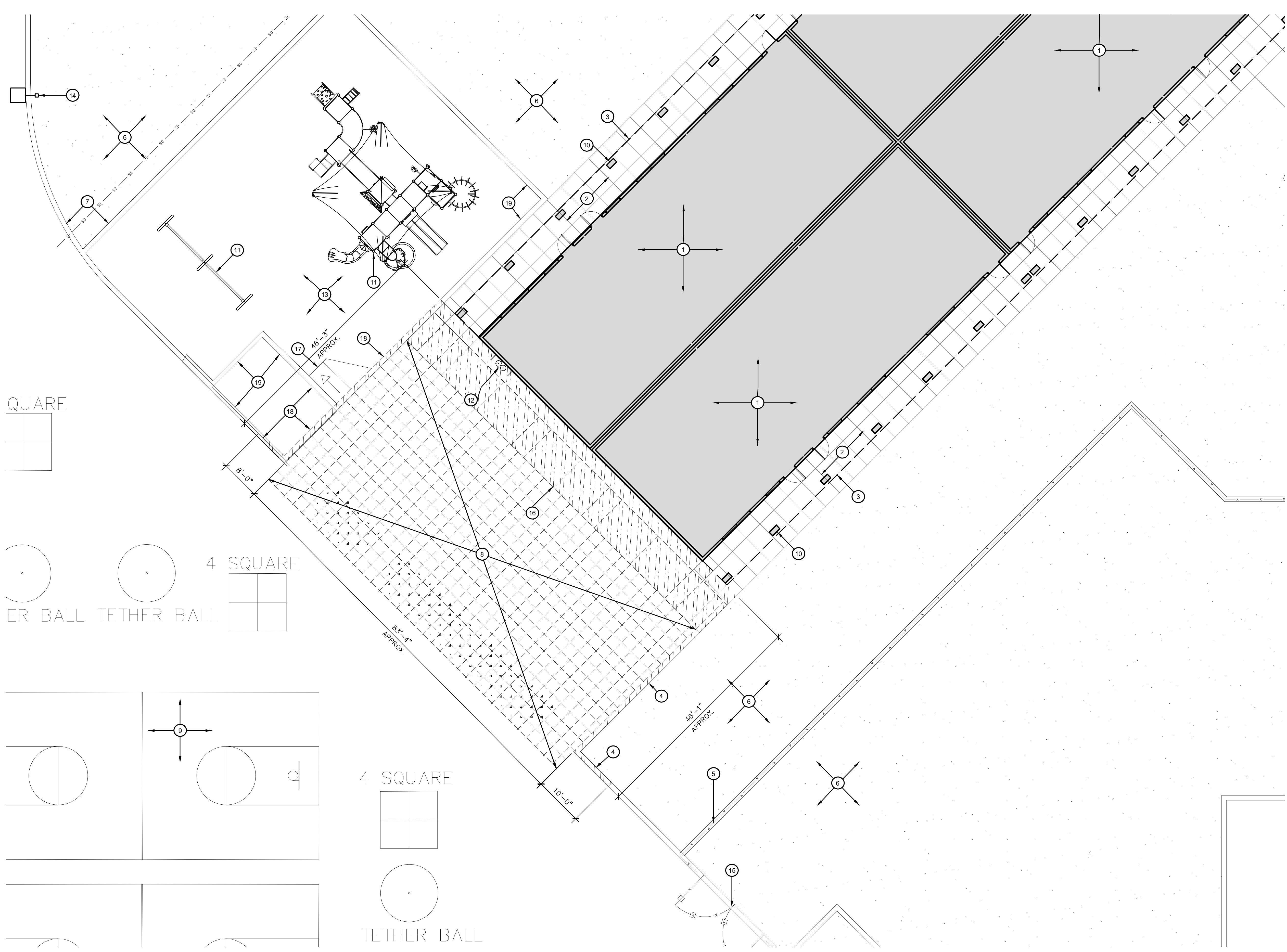
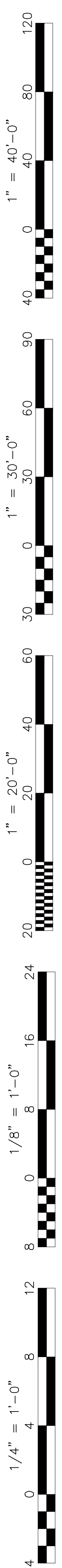
6011 N. FRESNO STREET, SUITE 130
 FRESNO CALIFORNIA 93710
 P: (559) 436-0881 F: (559) 436-0887
 E: design@somam.com
 integrateddesigns.com

Stamp:

SITE PLAN

Job No.: **5593**
 Sheet No.: **A1.01**

Release: DSA SUBMITTAL Issue Date: 7/24/24



ENLARGED DEMOLITION SITE PLAN
TRANSITIONAL KINDERGARTEN

SCALE: 1" = 10'

KEY NOTES

1. (E) BUILDING, NO WORK UNDER THIS APPLICATION
2. (E) CONCRETE SIDEWALK TO REMAIN.
3. (E) BUILDING OVERHANG TO REMAIN.
4. (E) 6" CONCRETE CURB TO BE REMOVED.
5. (E) CHAINLINK FENCE & MOWSTRIP TO REMAIN.
6. (E) LANDSCAPE AND IRRIGATION TO REMAIN, -SEE DSA# 03-118394
7. (E) CONCRETE CURB TO REMAIN.
8. (E) AC PAVING TO BE REMOVED.
9. (E) AC PAVING PLAY COURTS TO REMAIN.
10. (E) COLUMNS TO REMAIN
11. (E) PLAYSET TO REMAIN
12. (E) HI/LOW DRINKING FOUNTAIN TO BE REMOVED. CAP PLUMBING IN WALL.
13. (E) FALL MATERIAL TO REMAIN.
14. (E) LIGHT POLE TO REMAIN.
15. (E) CHAINLINK GATE TO REMAIN.
16. (E) CONCRETE SIDEWALK TO BE REMOVED
17. (E) CONCRETE RAMP TO BE REMOVED
18. (E) 12" CONCRETE CURB TO BE REMOVED
19. (E) CONCRETE CURB TO REMAIN

GENERAL NOTES

- A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO BID. IF ANY DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF LAYOUTS AND ESTABLISHED LOCATIONS OF BURIED UTILITY LINES. ANY UTILITIES REQUIRING RELOCATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR APPLICABLE GOVERNING AGENCIES REGARDING ARRANGEMENT AND COORDINATION OF WORK.
- C. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY COMPACTION RETEST DUE TO INITIAL FAILURE.
- D. PROJECT INSPECTOR SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
- E. A COPY OF TITLE 24, ALL PARTS APPLICABLE, TO BE KEPT AT THE JOB SITE AT ALL TIMES.
- F. ADDENDA SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE) AND APPROVED BY DSA.
- G. C.C.D.s SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE), OWNER AND APPROVED BY DSA.
- H. TESTING LAB SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
- I. ALL WORK SURFACES DISTURBED OR DAMAGED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN KIND, TEXTURED AND FINISHED TO MATCH ADJACENT SURFACES.
- J. NEW CONCRETE WALKS SHALL HAVE SLOPES NOT TO EXCEED 1" IN 20 IN THE DIRECTION OF PATH OF TRAVEL. PROVIDE CONTROL JOINTS ("C.J.") AT 5'-0" o.c. MAX. AND EXPANSION JOINTS NOT TO EXCEED 30'-0" MAX. PROVIDE MEDIUM BROOM FINISH ON ALL WALKS.
- K. ALL BUILDING AND ROOM NAMES INDICATED ON THESE CONSTRUCTION DOCUMENTS ARE "NOT" THE ACTUAL BUILDING/ ROOM SIGNAGE DESIGNATION. THE GENERAL CONTRACTOR SHALL FURNISH, INSTALL AND COORDINATE ALL REQUIRED SIGNAGE WITH THE OWNER/ARCHITECT PRIOR TO STARTING CONSTRUCTION.
- L. GENERAL CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE RELOCATABLE BUILDING DELIVERY DATES TO THE SCHOOL SITE WITH THE MFG.
- M. THE GENERAL CONTRACTOR SHALL CONSTRUCT ALL NEW RELOCATABLE BUILDING FOUNDATIONS AS PER THE RELOCATABLE BUILDING MANUFACTURER'S DRAWINGS AND SPECIFICATIONS.
- N. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL HOOK-UPS TO THE RELOCATABLE BUILDINGS AFTER INSTALLATION HAS BEEN COMPLETED BY THE MANUFACTURER.
- O. 5'-0" DEEP x 5'-0" WIDE MINIMUM LANDINGS AT DOORWAYS SHALL BE AS DETAILED AND SHALL HAVE SLOPES (IN ANY DIRECTION) OF NOT GREATER THAN 1/4 IN 12 SLOPE. SLOPES SHALL BE AWAY FROM DOORWAYS.
- P. GENERAL/SITE CONTRACTOR SHALL FIELD VERIFY THAT EXISTING PATH OF TRAVEL (P.O.T.) IS A MINIMUM OF 4'-0" WIDE AND IS SLIP RESISTANT. IF IT IS NOT, THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF RECORD AND A REMEDY OR ALTERNATE P.O.T. WILL BE PROVIDED.
- Q. THE MAXIMUM DROP BETWEEN EXISTING FINISHED GRADES AND THE TOP OF THE P.O.T. SHOULD NOT EXCEED 4". IF IT DOES, PROVIDE THE NECESSARY WARNING CURB PER CBC SEC. 11B-303.5.
- R. DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A C.C.D. OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
*PER DSA IR 16-1, SEC. 5.4
- S. CONTRACTOR SHALL ADJUST ALL DOOR CLOSERS TO A MAXIMUM OPENING FORCE OF 5 LBF

LEGEND

- EXISTING BUILDING NO WORK
- REMOVE (E) CONCRETE SIDEWALK
- REMOVE (E) AC PAVING
- (E) CHAIN LINK TO REMAIN

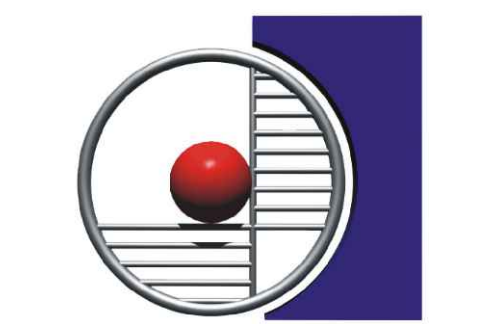
IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 03-123900 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 08/05/2024

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
 BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
 1100 Citadel
 Bakersfield, CA 93307



integrated designs
 by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN

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 integrateddesigns.com

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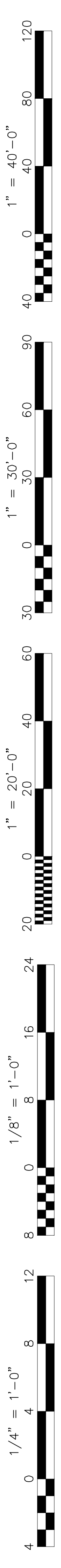
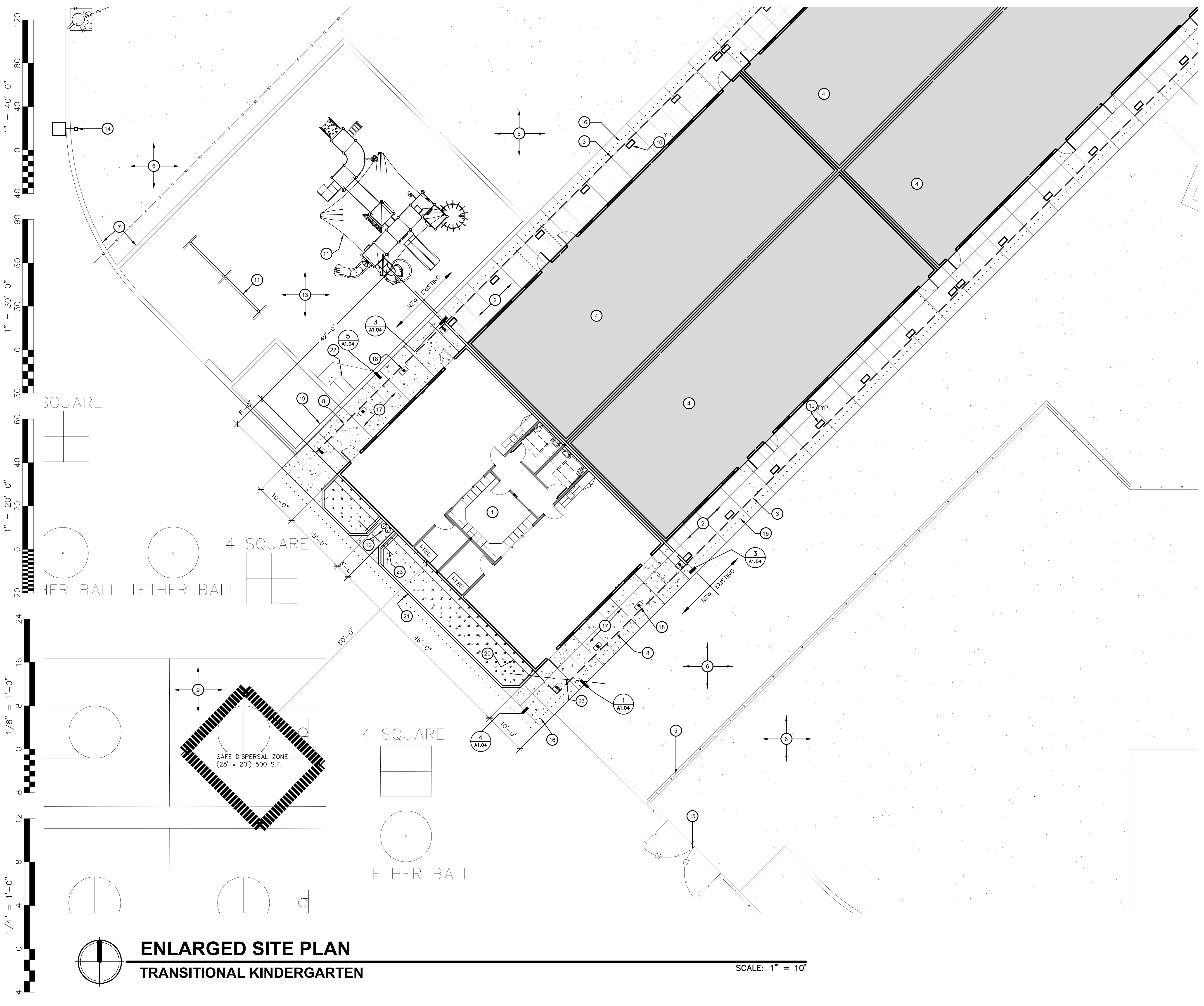


Sheet Title:
ENLARGED DEMOLITION SITE PLAN

Job No.:
5593

Sheet No.:
A1.02

Release: DSA SUBMITTAL Issue Date: 7/24/24



ENLARGED SITE PLAN
TRANSITIONAL KINDERGARTEN

SCALE: 1" = 10'

KEY NOTES

1. (N) BUILDING UNDER THIS APPLICATION - SEE A2.01.
2. (E) CONCRETE SIDEWALK TO REMAIN.
3. (E) BUILDING OVERHANG TO REMAIN.
4. (E) BUILDING NO WORK
5. (E) CHAINLINK FENCE & MOWSTRIP TO REMAIN.
6. (E) LANDSCAPE AND IRRIGATION TO REMAIN.
7. (E) CONCRETE CURB TO REMAIN.
8. NEW BUILDING OVERHANG
9. (E) AC PAVING PLAY COURTS TO REMAIN.
10. (E) COLUMNS TO REMAIN.
11. (E) PLAYSET TO REMAIN.
12. (N) HI/LOW DRINKING FOUNTAIN - SEE DETAIL 12/A8.01
13. (E) FALL MATERIAL TO REMAIN
14. (E) LIGHT POLE TO REMAIN
15. (E) CHAINLINK GATE TO REMAIN.
16. DOTTED LINE INDICATES ACCESSIBLE PATH OF TRAVEL.
17. (N) CONCRETE SIDEWALK - SEE DETAIL 11/A1.04
18. (N) COLUMN - SEE DETAIL 7/A7.01
19. (N) 8" CONCRETE CURB - SEE DETAIL 5/A1.04
20. (N) 18" MOWSTRIP - SEE DETAIL 10/A1.04
21. (N) 6" CONCRETE CURB - SEE DETAIL 11/A1.04
22. (N) CONCRETE RAMP - SEE DETAIL 13/A1.04
23. (N) IRRIGATION SLEEVE - SEE DETAIL 14/A1.04

GENERAL NOTES

- A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO BID. IF ANY DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF LAYOUTS AND ESTABLISHED LOCATIONS OF BURIED UTILITY LINES. ANY UTILITIES REQUIRING RELOCATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. CONTACT APPLICABLE GOVERNING AGENCIES REGARDING ARRANGEMENT AND COORDINATION OF WORK.
- C. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY COMPACTION RETEST DUE TO INITIAL FAILURE.
- D. PROJECT INSPECTOR SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
- E. A COPY OF TITLE-24, ALL PARTS APPLICABLE, TO BE KEPT AT THE JOB SITE AT ALL TIMES.
- F. ADDENDA SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE) AND APPROVED BY DSA.
- G. C.C.D.s SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE), OWNER AND APPROVED BY DSA.
- H. TESTING LAB SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
- I. ALL WORK SURFACES DISTURBED OR DAMAGED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN KIND, TEXTURED AND FINISHED TO MATCH ADJACENT SURFACES.
- J. NEW CONCRETE WALKS SHALL HAVE SLOPES NOT TO EXCEED 1" IN 20 IN THE DIRECTION OF PATH OF TRAVEL. PROVIDE CONTROL JOINTS ("C.J.") AT 5'-0" o.c. MAX. AND EXPANSION JOINTS NOT TO EXCEED 30'-0" MAX. PROVIDE MEDIUM BROOM FINISH ON ALL WALKS.
- K. ALL BUILDING AND ROOM NAMES INDICATED ON THESE CONSTRUCTION DOCUMENTS ARE "NOT" THE ACTUAL BUILDING ROOM SIGNAGE DESIGNATION. THE GENERAL CONTRACTOR SHALL FURNISH, INSTALL AND COORDINATE ALL REQUIRED SIGNAGE WITH THE OWNER/ARCHITECT PRIOR TO STARTING CONSTRUCTION.
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*PER DSA IR 16-1, SEC. 5.4
S. CONTRACTOR SHALL ADJUST ALL DOOR CLOSERS TO A MAXIMUM OPENING FORCE OF 5 LBF

LEGEND

	EXISTING BUILDING NO WORK
	(N) CONCRETE SIDEWALK
	(N) PLANTER
	(E) CHAINLINK FENCE
	ACCESSIBLE PATH OF TRAVEL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123900 INC:
REVIEWED FOR
SS FLS ACS
DATE: 08/05/2024

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST.
BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

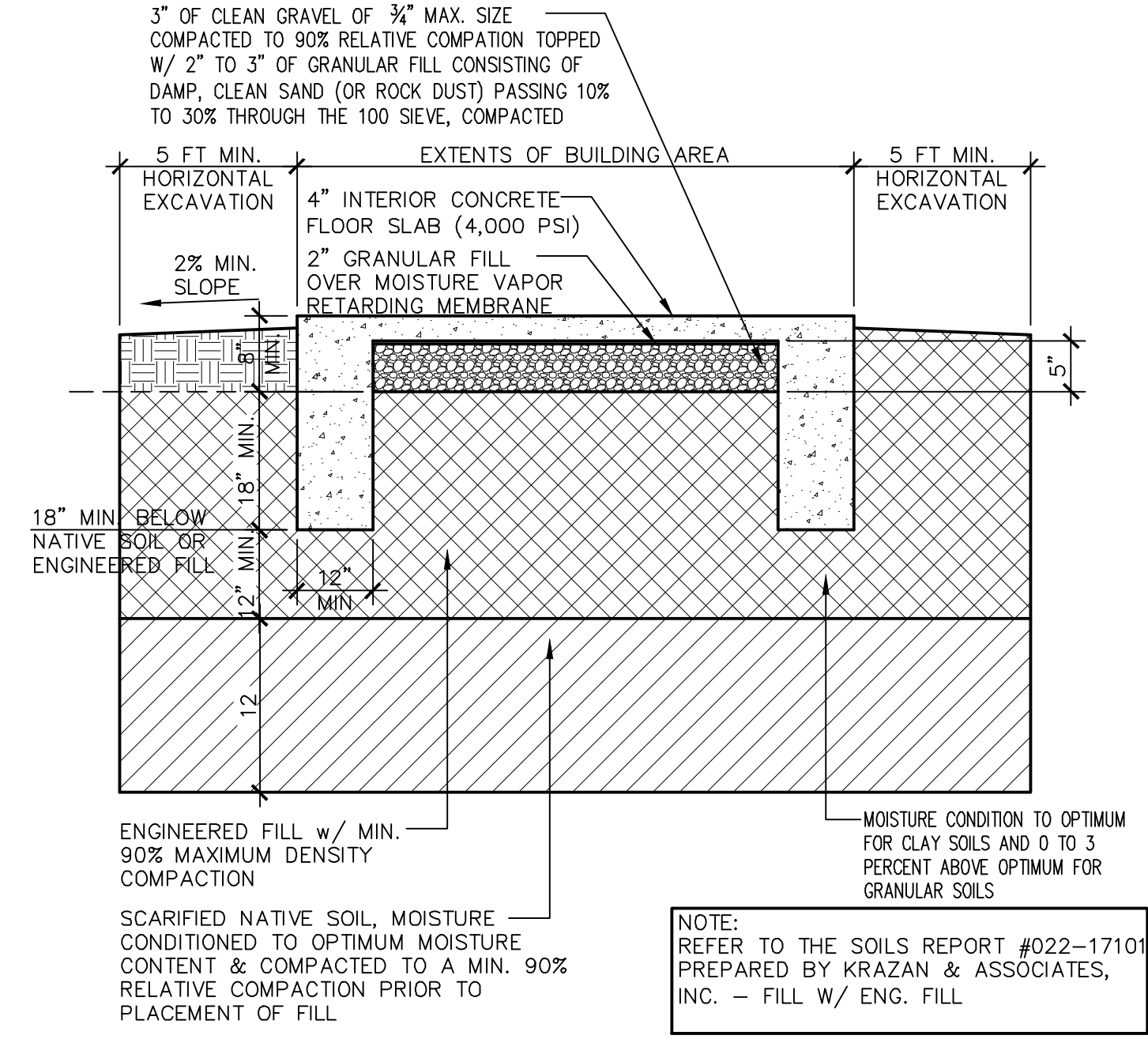
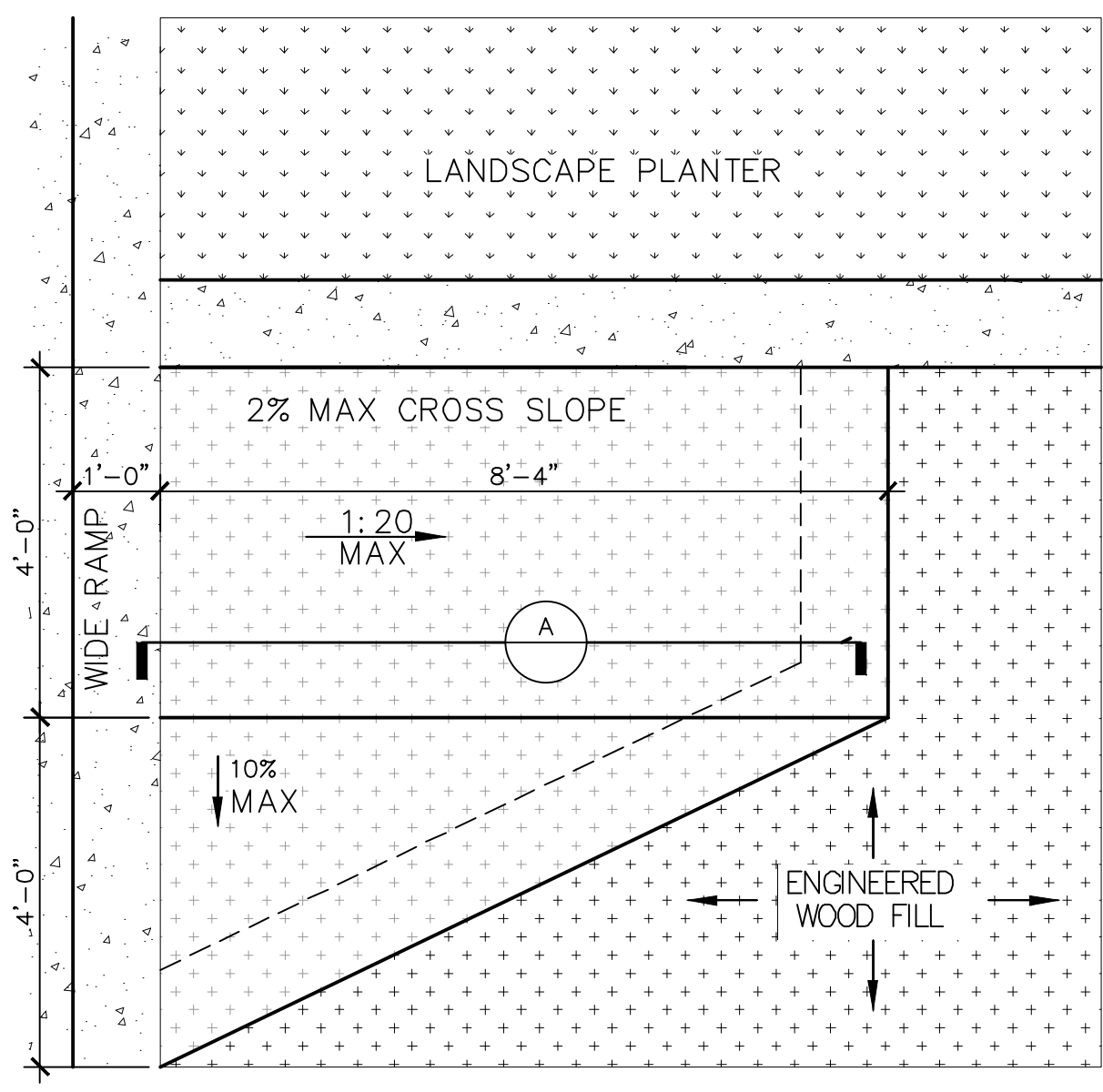
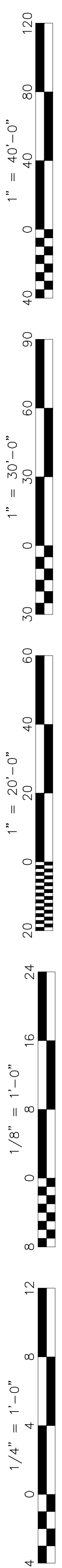
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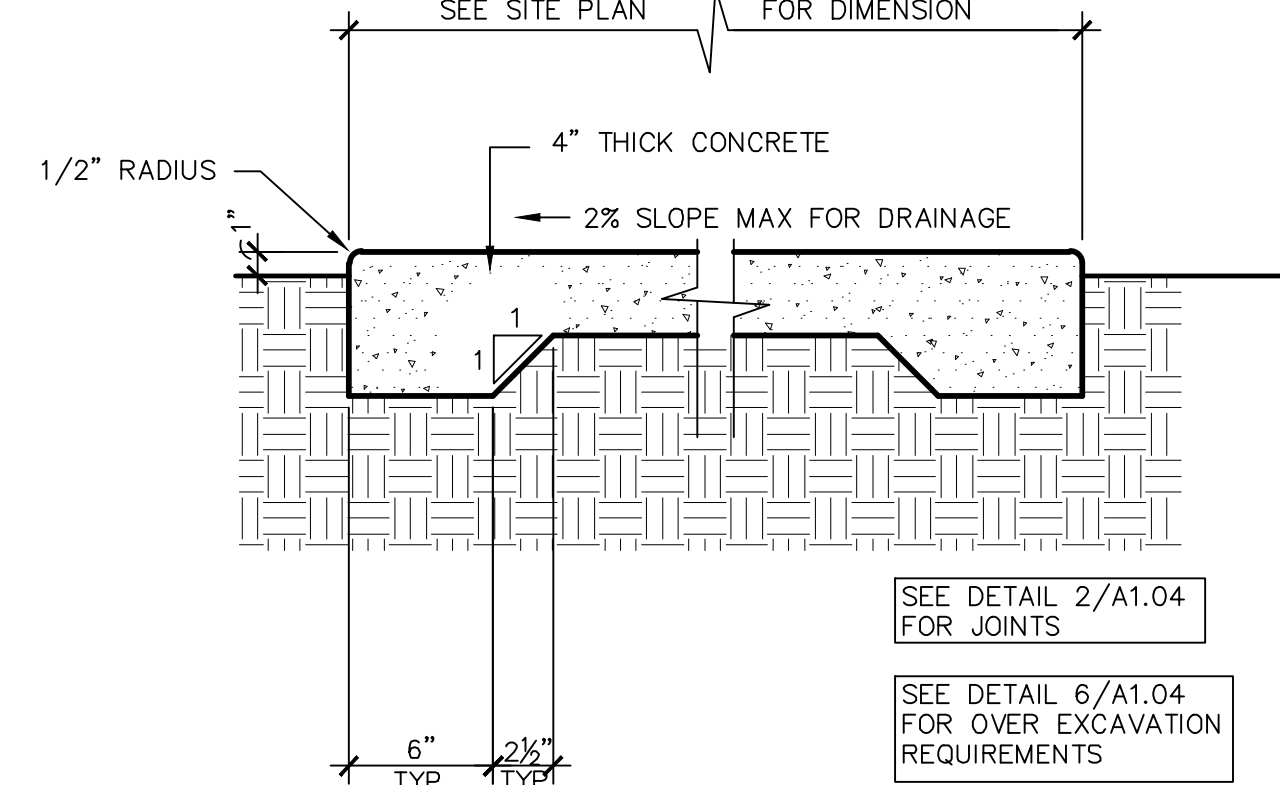
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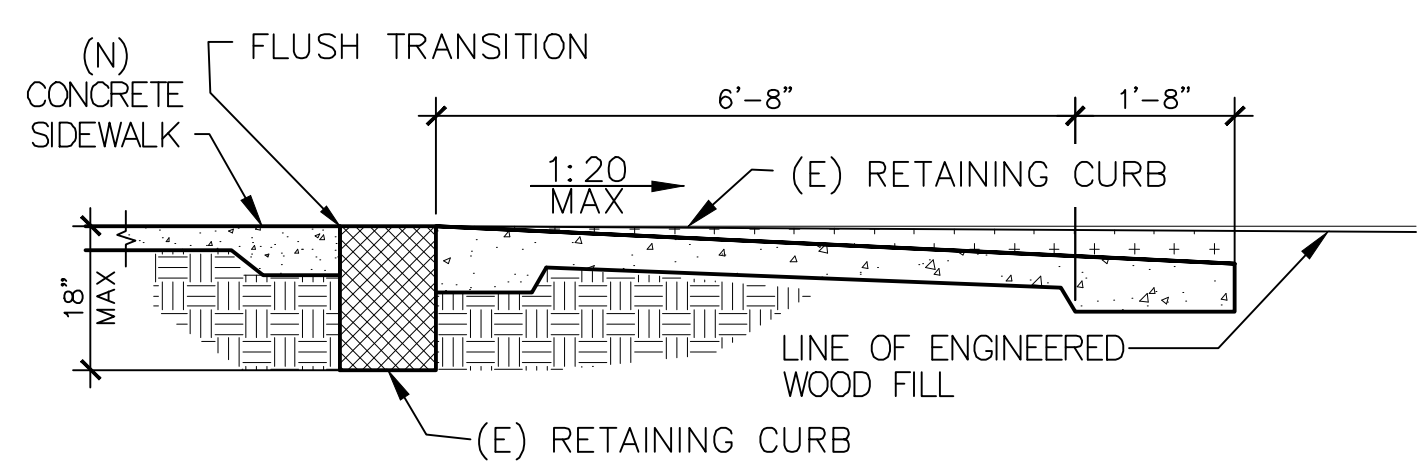
Sheet Title:
ENLARGED SITE PLAN
Job No.: **5593**
Sheet No.: **A1.03**
Release: DSA SUBMITTAL
Issue Date: 7/24/24



5 CONCRETE SLAB AT PLANTER
 A1.04 ADS100-26 SCALE: 1 1/2" = 1'-0"

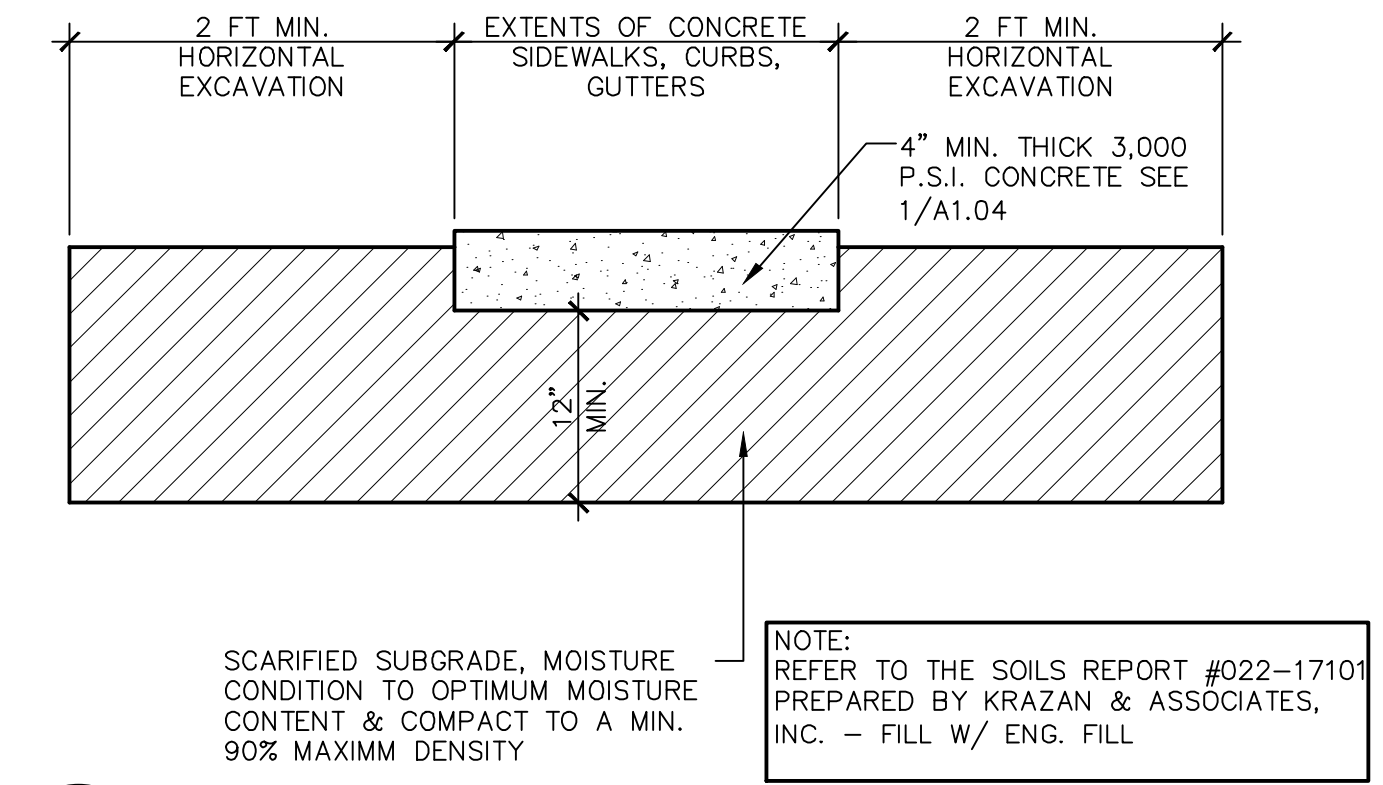


1 TYPICAL CONCRETE WALK
 A1.04 ADS100-15 SCALE: 1 1/2" = 1'-0"

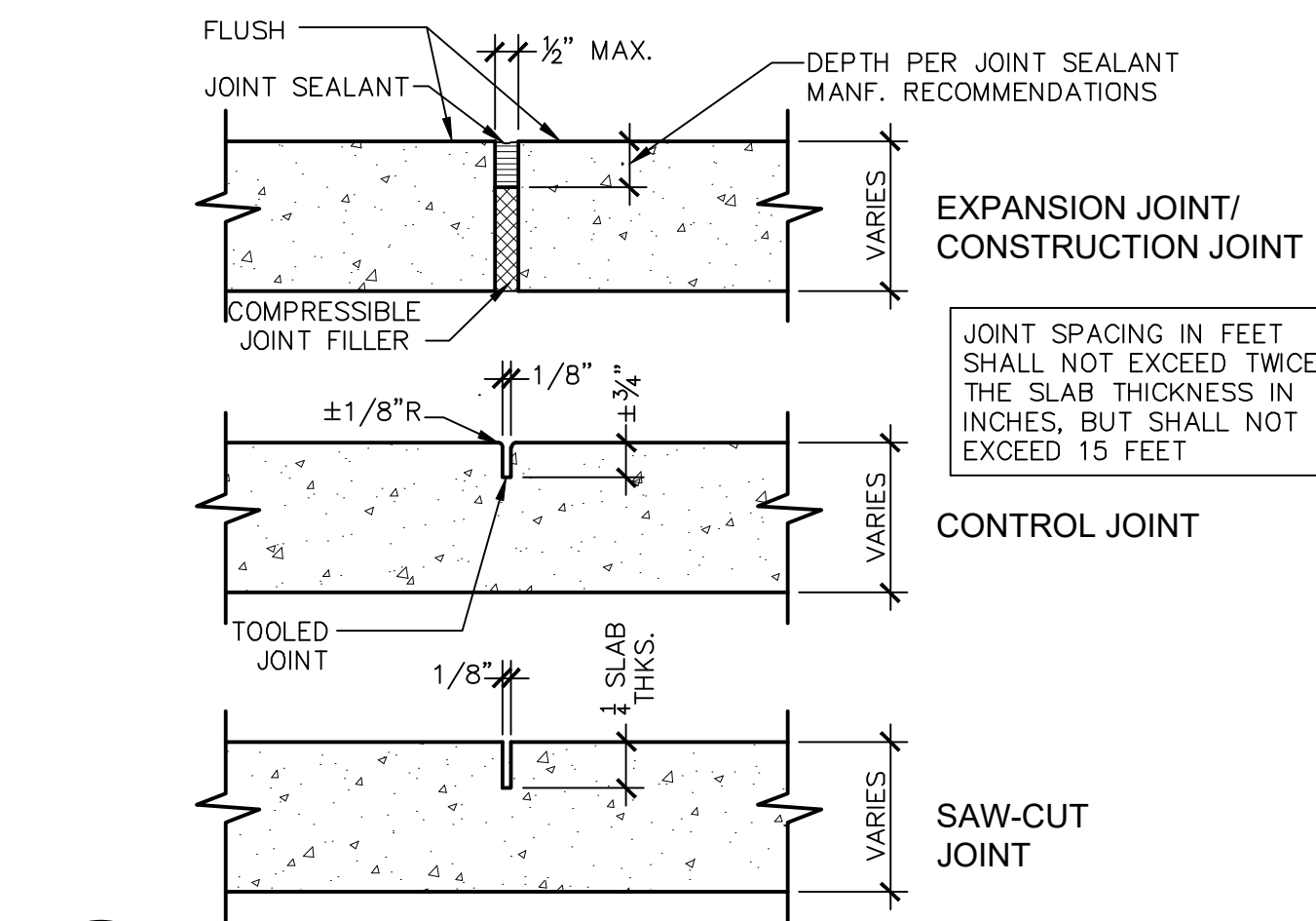


13 ACCESSIBILITY RAMP TO PLAY AREA
 A1.04 SCALE: 1/2" = 1'-0"

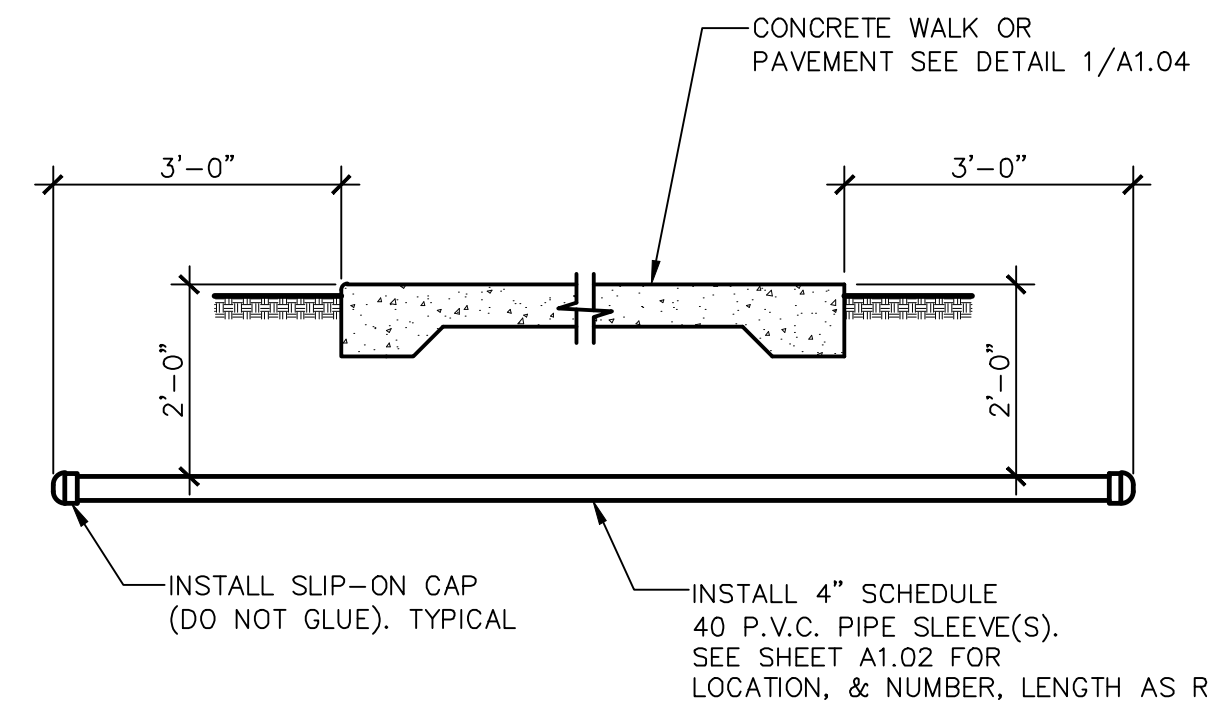
9 OVER EXCAVATION REQUIREMENTS @ BLDG S.O.G & FOUND.
 A1.04 ADS100-08 FOR PROPOSED BUILDINGS SCALE: N.T.S.



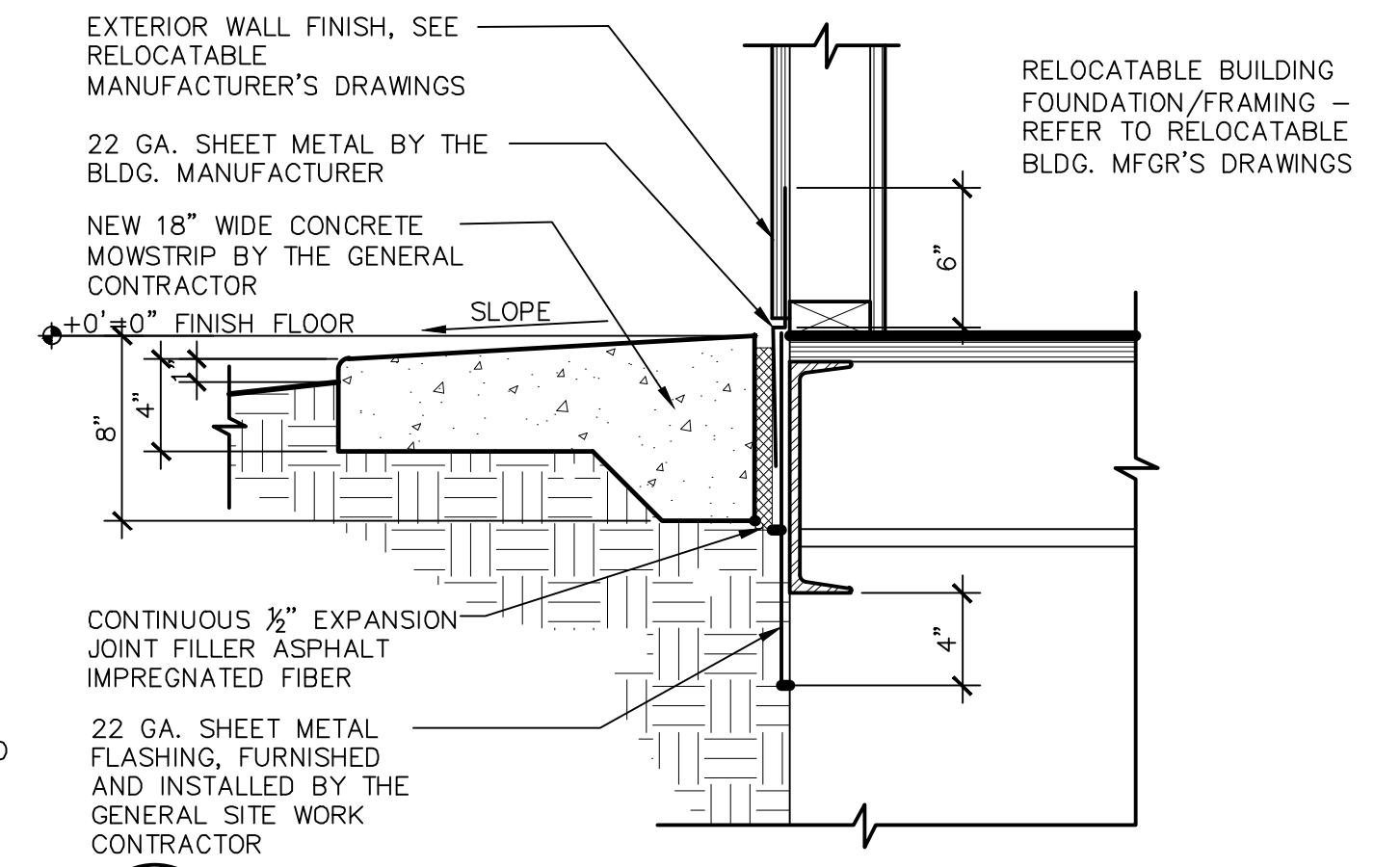
6 OVER EXCAVATION REQUIREMENTS @ WALKS, CURB & GUTTERS
 A1.04 ADS100-06 FOR SIDEWALKS, CURB, GUTTERS, AND A.C. PAVING SCALE: 1" = 1'-0"



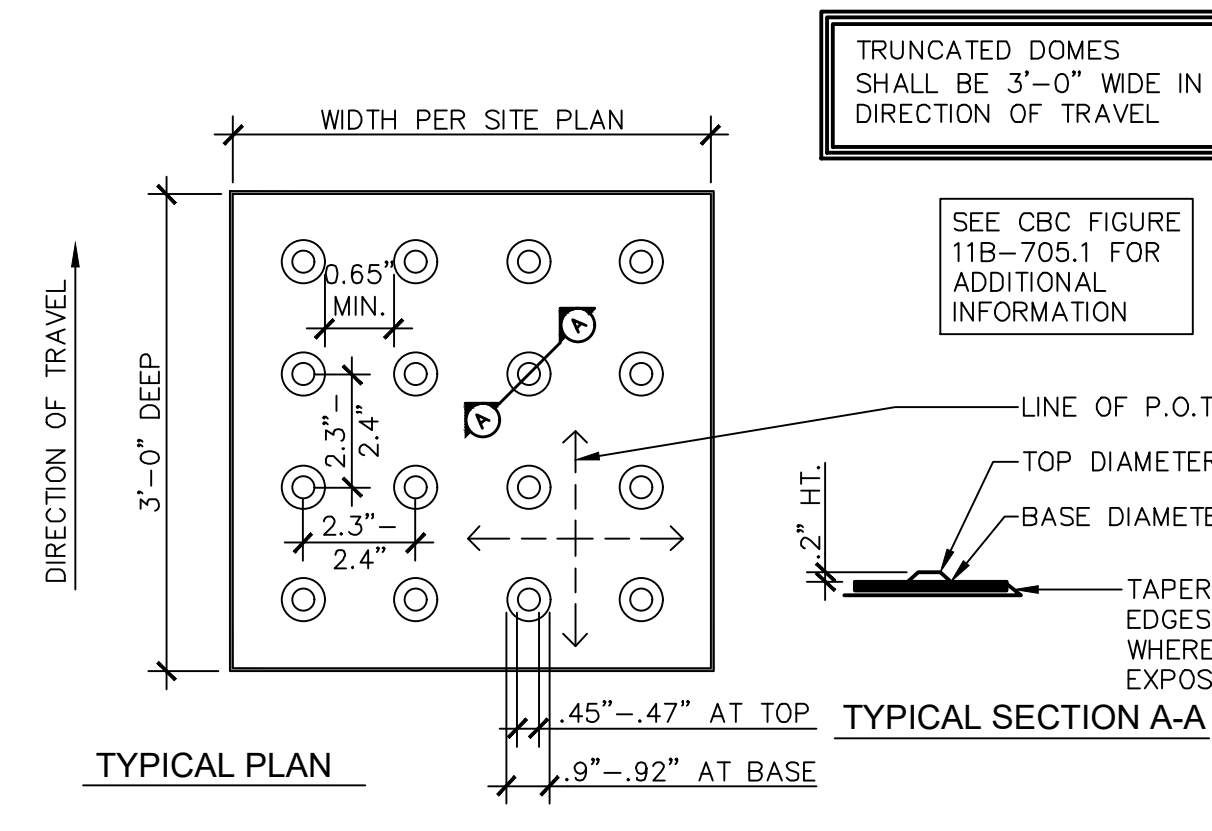
2 CONCRETE CONTROL JOINTS
 A1.04 ADS110-01 SCALE: 3" = 1'-0"



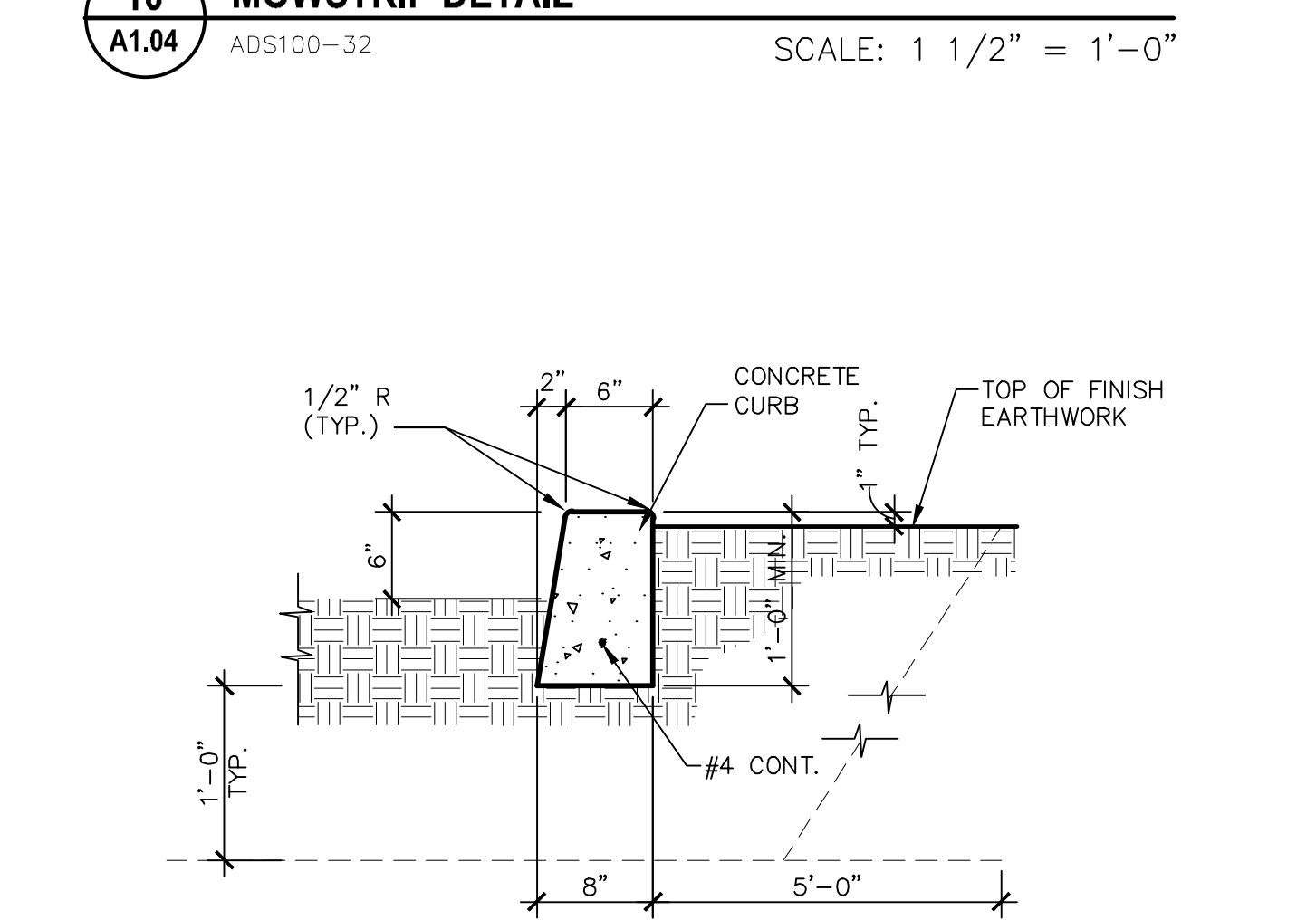
14 TYPICAL IRRIGATION SLEEVE
 A1.04 ADS100-13 SCALE: 1/2" = 1'-0"



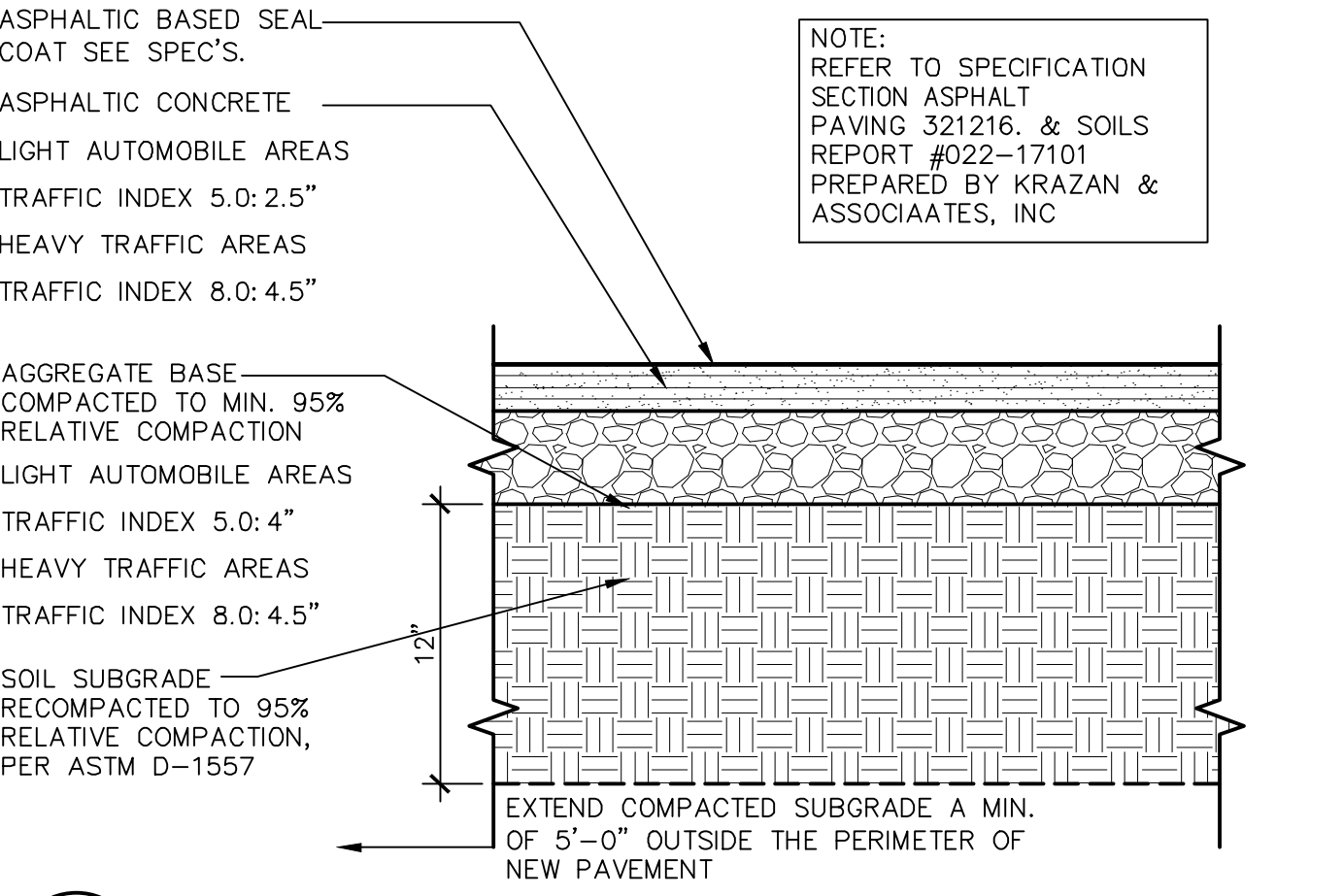
10 MOWSTRIP DETAIL
 A1.04 ADS100-32 SCALE: 1 1/2" = 1'-0"



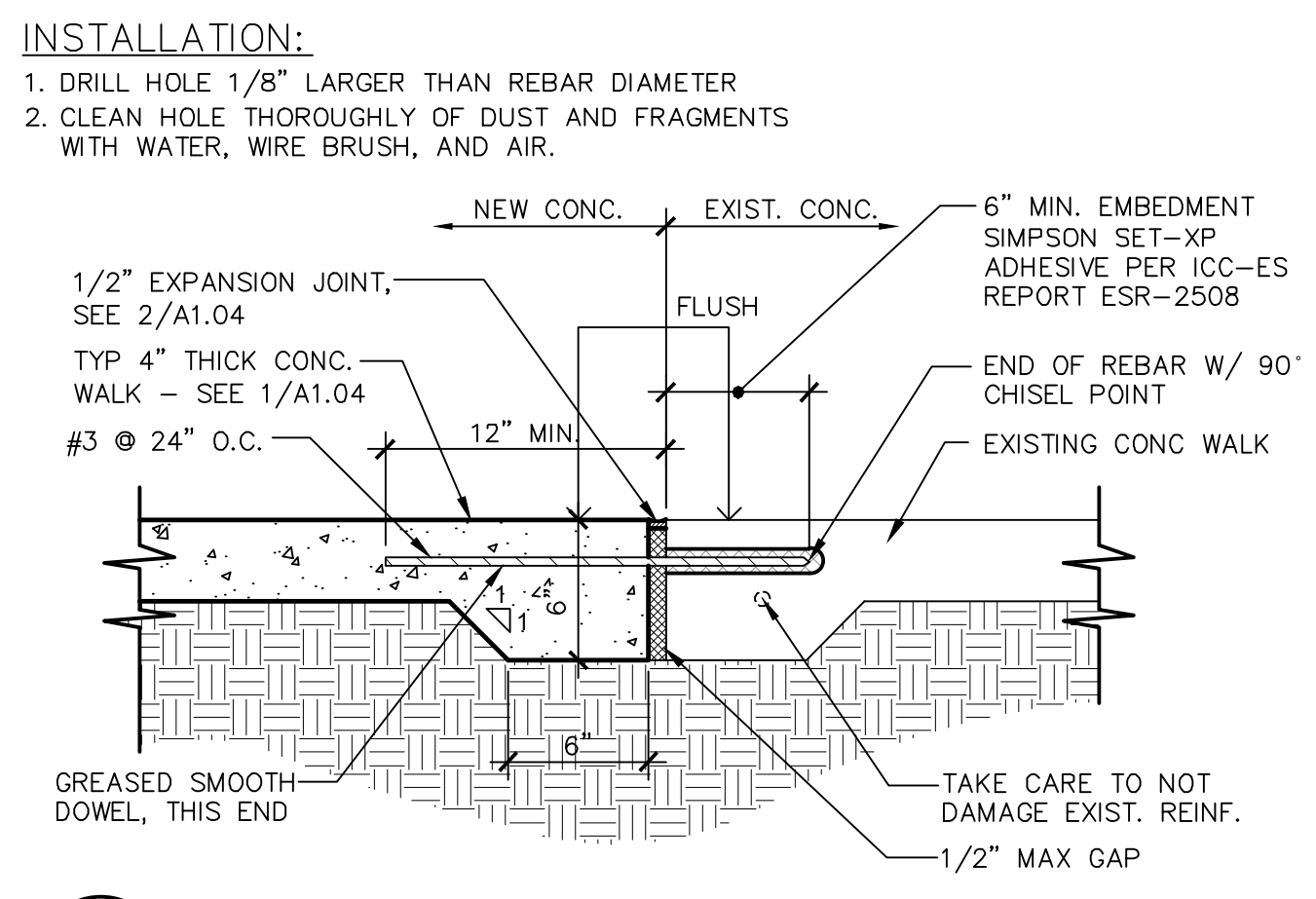
15 TRUNCATED DOMES COLOR: FEDERAL YELLOW FS 33538
 A1.04 ADA100-23 SCALE: N.T.S.



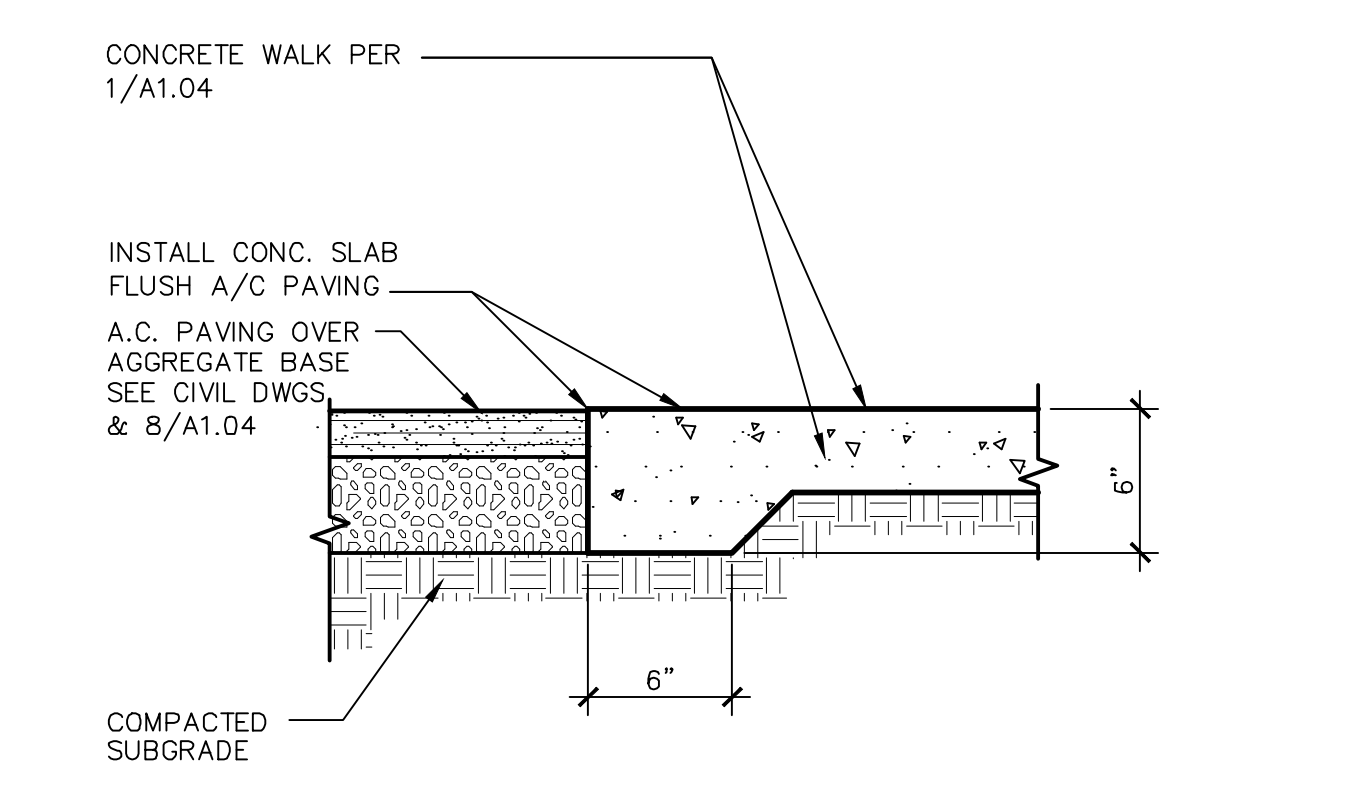
11 CONCRETE CURB AT PAVING
 A1.04 ADS100-02 SCALE: 1" = 1'-0"



8 ASPHALT PAVING STRUCTURAL SECTION
 A1.04 ADS100-16 SCALE: 1 1/2" = 1'-0"



3 (N) CONC WALK TO (E) CONC WALK
 A1.04 ADS100-05 SCALE: 1 1/2" = 1'-0"



4 CONCRETE SLAB AT PAVING
 A1.04 ADS100-03 SCALE: 1 1/2" = 1'-0"

INSTALLATION:

1. DRILL HOLE 1/8" LARGER THAN REBAR DIAMETER
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
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 REVIEWED FOR
 SS FLS ACS
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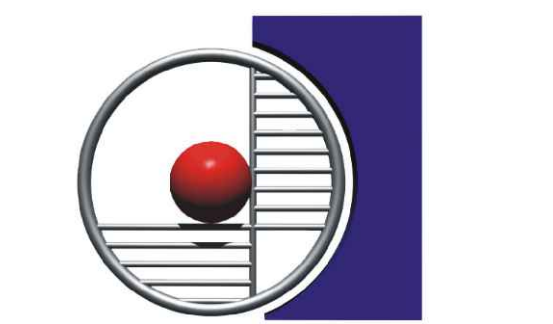


BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
 BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL

1100 Citadel
 Bakersfield, CA 93307



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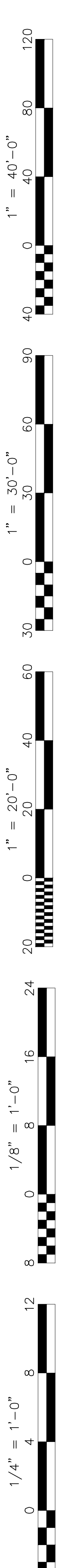
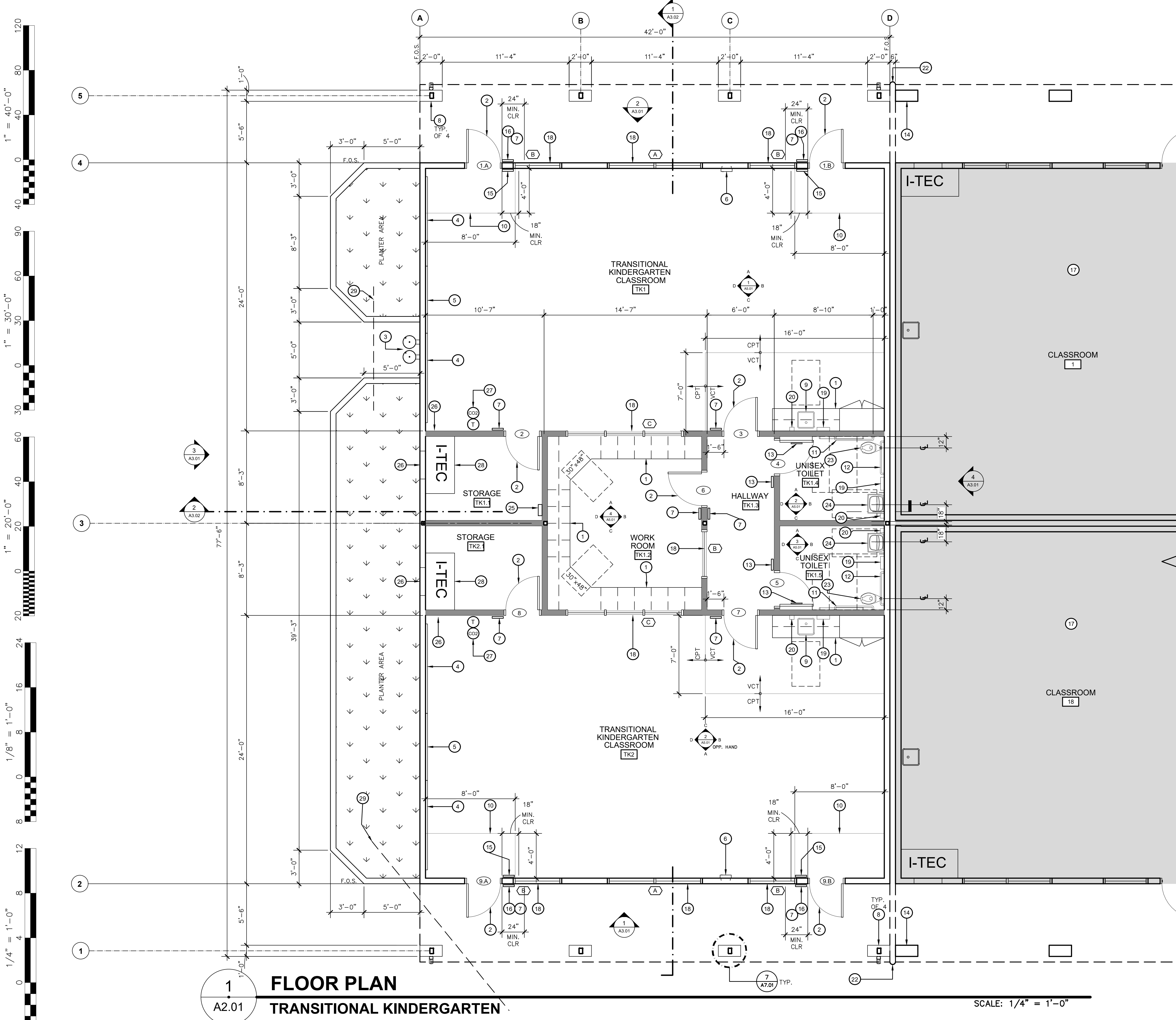


Sheet Title:
SITE DETAILS

Job No.:
5593

Sheet No.:
A1.04

Release: DSA SUBMITTAL Issue Date: 7/24/24



1 FLOOR PLAN
A2.01 TRANSITIONAL KINDERGARTEN

SCALE: 1/4" = 1'-0"

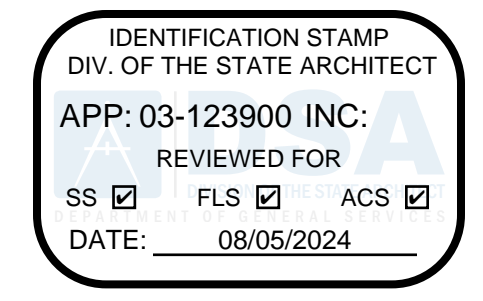
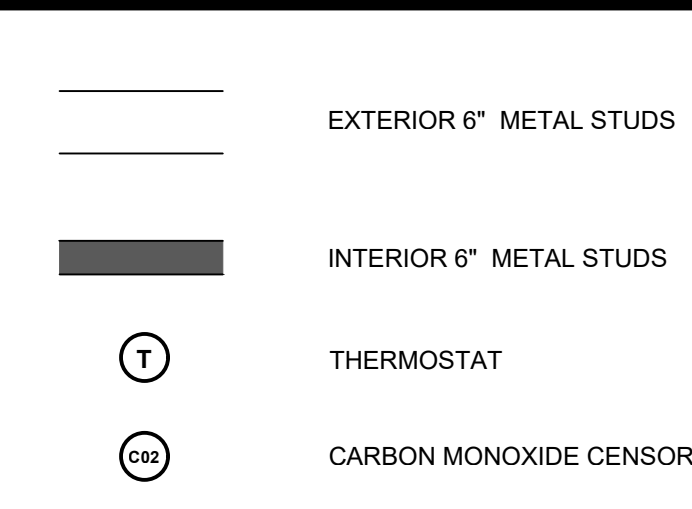
KEY NOTES

- (N) CABINETS. SEE DETAIL # 1/A8.02.
- (N) DOOR, FRAME, AND HARDWARE - SEE DOOR SCHEDULE.
- (N) ACCESSIBLE HI/LO DRINKING FOUNTAIN - SEE DETAIL 12/A8.01
- (N) 4'-0" X 8'-0" MARKER BOARDS - SEE DETAIL 9/A8.02
- (N) SMARTBOARD N.I.C.
- (N) FIRE EXTINGUISHER CABINET. - SEE DETAIL 13/A8.02
- (N) TACTILE ROOM IDENTIFICATION SIGN - SEE DETAIL 5/A8.01
- (N) COLUMN
- (N) SINK ON COUNTERTOP WITH CABINETS - SEE DETAIL 6 & 7/A8.02
- (N) WALK-OFF CARPET TILES
- (N) 48" GRAB BAR - SEE DETAIL 8/A8.01
- (N) 36" GRAB BAR - SEE DETAIL 8/A8.01
- (N) RESTROOM SIGNAGE PER DETAIL 2/A8.01
- (E) COLUMN
- (N) TACTILE EXIT SIGN - SEE DETAIL 4/A8.01
- (N) BUILDING ENTRANCE SIGN - SEE DETAIL 1/A8.01
- NO WORK IN THIS ROOM
- (N) WINDOW & FRAME - SEE WINDOW SCHEDULE.
- (N) PAPER TOWEL DISPENSER F.B.O. INSTALLED BY CONTRACTOR - SEE DETAIL 7/A8.01
- (N) SOAP DISPENSER F.B.O. INSTALLED BY CONTRACTOR - SEE DETAIL 7/A8.01
- (N) MIRROR - SEE DETAIL A7/A8.01
- SEISMIC JOINT COVER
- (N) WATER CLOSET - SEE PLUMBING
- (N) LAVATORY - SEE PLUMBING
- (N) ELECTRICAL PANEL - SEE ELECTRICAL
- (N) WALL GRILL - SEE MECHANICAL
- (N) THERMOSTAT & CO2 SENSOR - SEE MECHANICAL
- (N) HEAT PUMP - SEE MECHANICAL
- (N) IRRIGATION SLEEVE - SEE DETAIL 14/A1.04.

GENERAL NOTES

- DIMENSIONS ARE GIVEN TO FACE OF STUD UNLESS NOTED OTHERWISE.
- DIMENSIONS FOR ACCESSIBILITY COMPLIANCE ARE GIVEN FROM CENTERLINE OR FACE OF FIXTURE/ACCESSORY TO FACE OF FINISH OR ADJACENT FIXTURE/ACCESSORY. SEE NOTE BELOW
- SEE SHEET A8.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS AT ALL TOILET ROOM ACCESSORIES AND ACCESSIBLE FIXTURES: WATER CLOSETS, LAVATORIES, DRINKING FOUNTAINS, ETC.
- SEE MATERIAL & FINISH SCHEDULE ON FOR MATERIAL & FINISH SELECTIONS.
- ALL INTERIOR WALLS TO RECEIVE ACOUSTIC BATT INSULATION. PROVIDE GYPSUM BD. FROM FINISH FLOOR TO WITHIN 1/4" OF ROOF DECK ABOVE W/ BLOCKING BETWEEN ROOF FRAMING MEMBERS
- ALL GYPSUM BOARD TO BE 5/8" U.N.O.; 5/8" CEMENT BACKER @ C.T.
- FRAME ALL INTERIOR WALLS FROM FLOOR SLAB BELOW TO WITHIN 1/4" OF THE UNDERSIDE OF THE ROOF DECK ABOVE U.N.O. W/ 5/8" GYP. BD. BOTH SIDES FROM FIN. FLOOR BELOW TO 6" ABOVE HIGHEST ADJACENT CEILING
- SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS
- SEE STRUCTURAL DRAWINGS FOR TYPICAL FRAMING CONSTRUCTION DETAILS
- ALL INSULATION AT EXTERIOR WALLS SHALL BE R-19 INSULATION. INSULATION IN ATTIC SPACE SHALL BE R-38 FOL-FACT F.G. BATT INSULATION INSTALLED.
- PROVIDE ACOUSTIC BATT INSULATION AT ALL INTERIOR TOILET ROOM WALLS. PROVIDE ACOUSTIC SEALANT AT ALL END WALL JOINTS AND AT ALL PENETRATIONS.

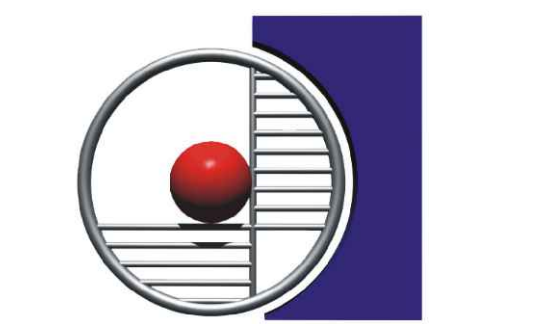
WALL LEGEND



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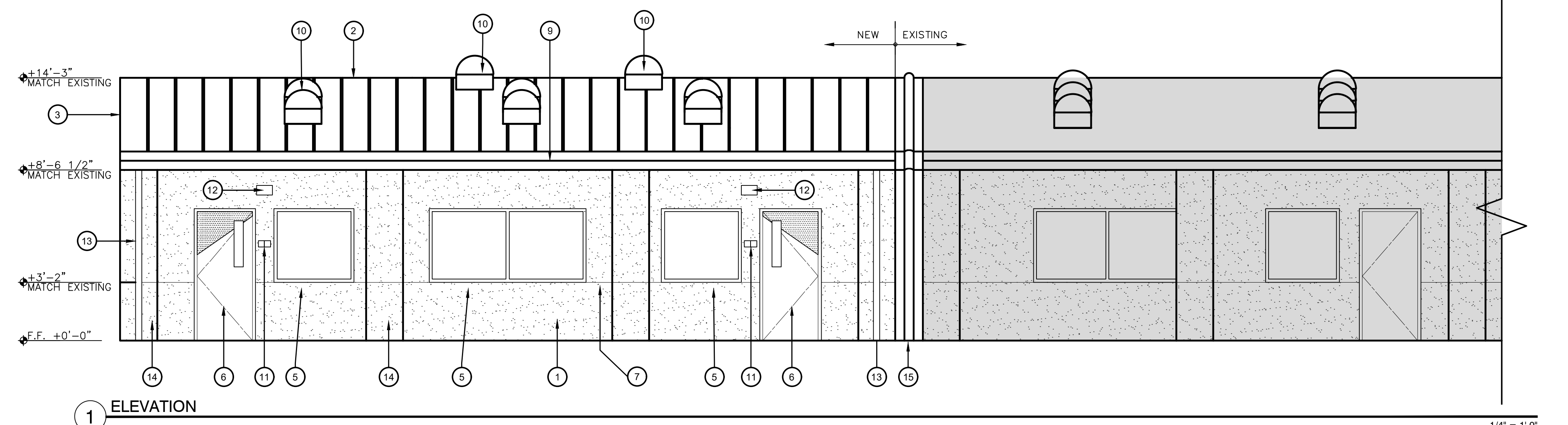
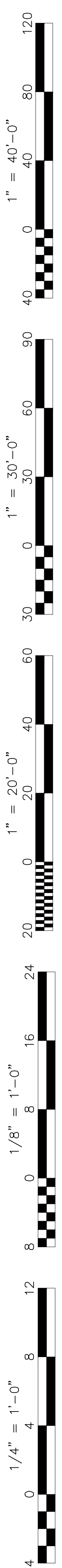
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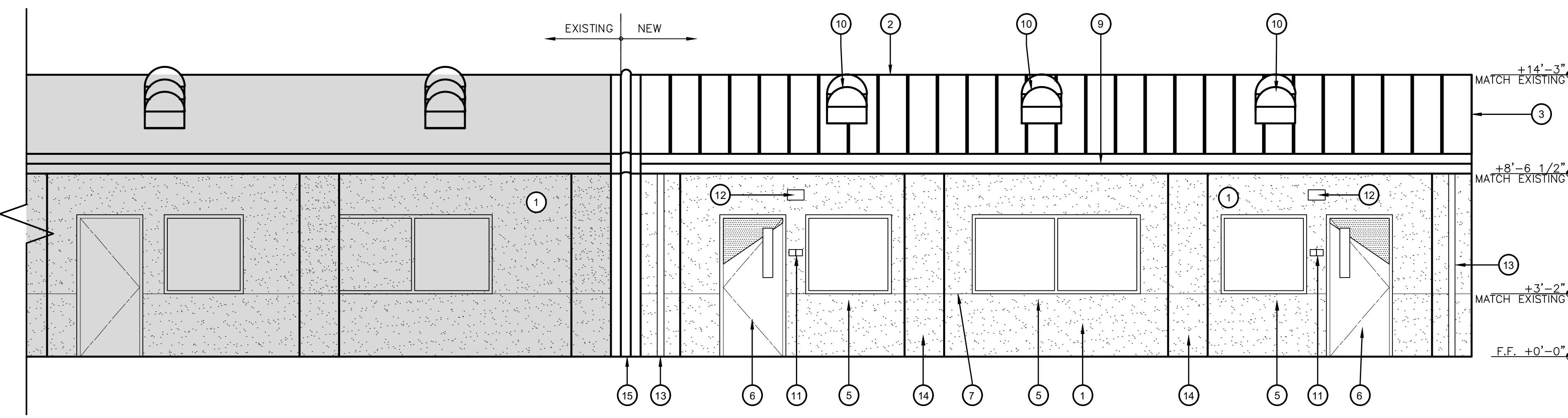
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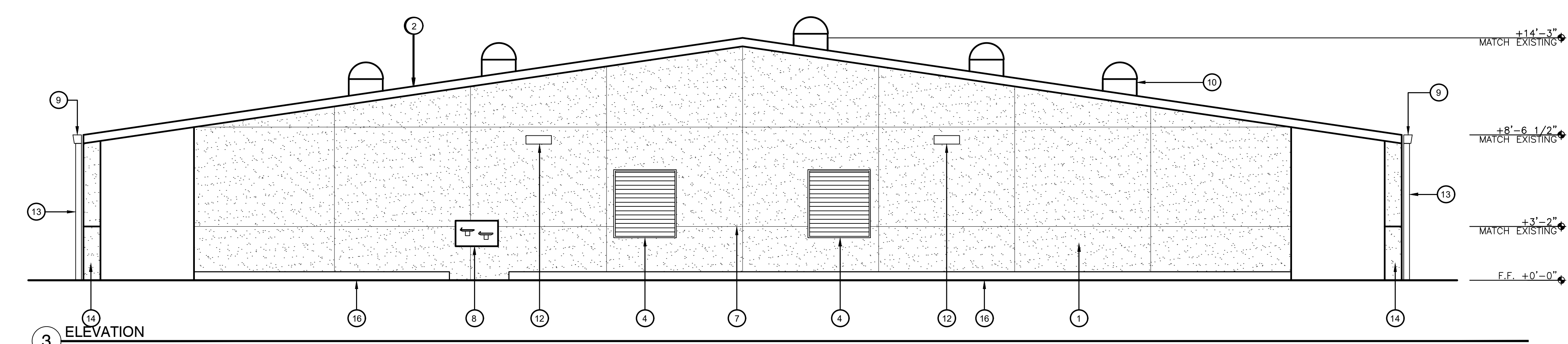
Job No.: **5593**
 Sheet No.: **A2.01**



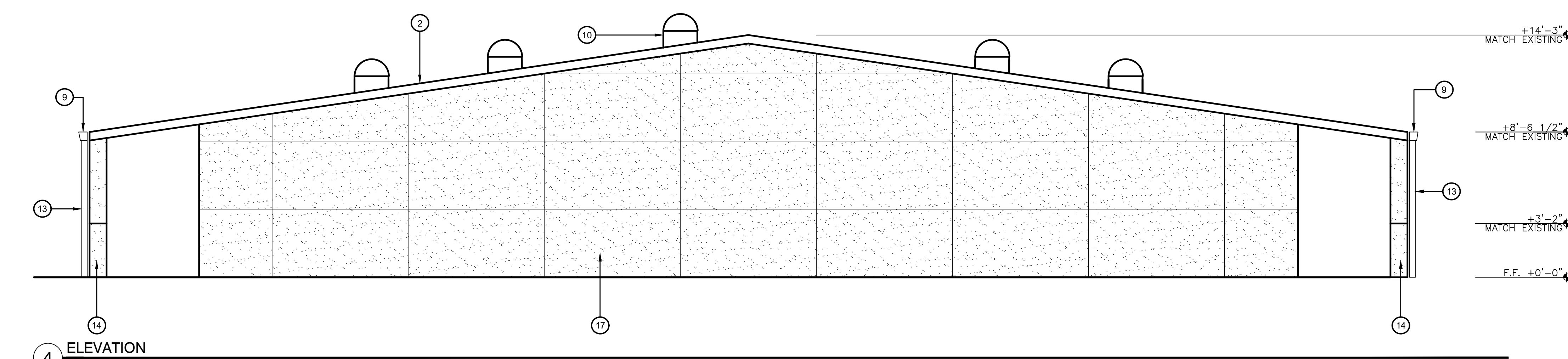
1 ELEVATION



2 ELEVATION



3 ELEVATION

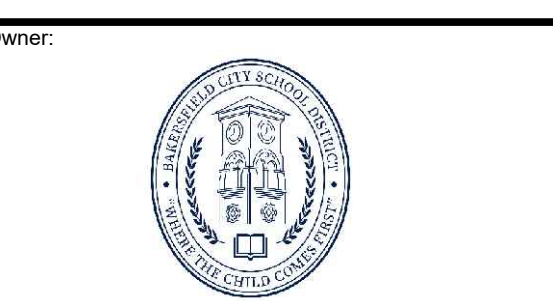


4 ELEVATION

KEY NOTES

1. EXTERIOR CEMENT PLASTER w/ WEATHER BARRIER, PRIME AND PAINT
2. PRE-FINISHED STANDING SEAM METAL ROOF w/ UNDERLAYMENTS - SEE SHEET A7.02 FOR TYPICAL DETAILS
3. 22 GA. SHEET METAL COPING, PROVIDE CLINCH-LOCK SEAM PER SMACNA DETAIL 1 FIGURE 3-2 AT SEAMS ALONG RAKED COPING, PRIME AND PAINT
4. EXTERIOR WALL LOUVER - SEE MECHANICAL
5. H.M. WINDOW FRAME W/ 1" INSULATED GLAZING UNIT, PAINT FRAME - SEE WINDOW ELEVATIONS
6. HOLLOW METAL DOOR AND FRAME - SEE DOOR SCHEDULE, PAINT
7. CONTROL JOINT - TYPE #5 - SEE 8/A7.01
8. (N) HI LOW DRINKING FOUNTAIN - SEE DETAIL 12/A8.01
9. RAIN GUTTER - SEE DETAIL 8/A7.02
10. SKY LIGHT
11. TACTILE ROOM IDENTIFICATION SIGN- SEE 5/A8.01 AND ISA SIGN PER 1/A8.01
12. WALL MOUNTED EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
13. DOWNSPOUT - CONNECT TO UNDERGROUND DRAIN SYSTEM
14. COLUMN
15. SEISMIC JOINT COVER
16. 6" CONCRETE CURB PLANTER
17. DENS GLASS SHEATHING OUTER PLYWOOD

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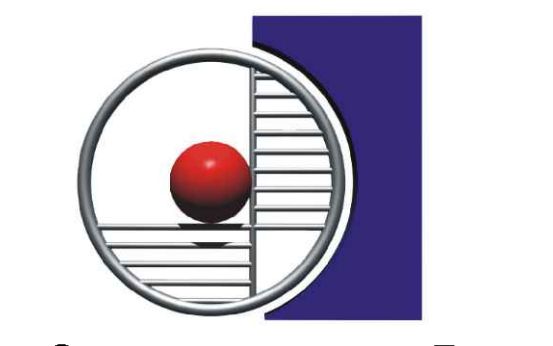
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BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
1100 Citadel
Bakersfield, CA 93307

GENERAL NOTES

1. ALL METAL LATH WIRE SHALL BE CUT BEHIND ALL EXPANSION/CONTROL JOINTS. THE CONTRACTOR SHALL PROVIDE STUDS AS REQUIRED @ ALL JOINTS
2. ALL EXTERIOR GLASS SEE WINDOW ELEVATIONS AND SCHEDULE
3. CEMENT PLASTER WILL BE PAINTED WITH 3 DIFFERENT COLORS (ELASTOMERIC P50.E)
1) MAIN BODY
2) SECONDARY BODY
3) 12" ACCENT BAND
4. HOLLOW METAL FRAMES & DOORS WILL BE PAINTED WITH A MIN. OF 2 COLORS
1) EXTERIOR SURFACE : 2. COLOR
A) JAMB
B) DOOR
1. MAIN
2. ACCENT
3. DOOR NUMBER
2) INTERIOR SURFACE : 2. COLORS
A) JAMB
B) DOOR



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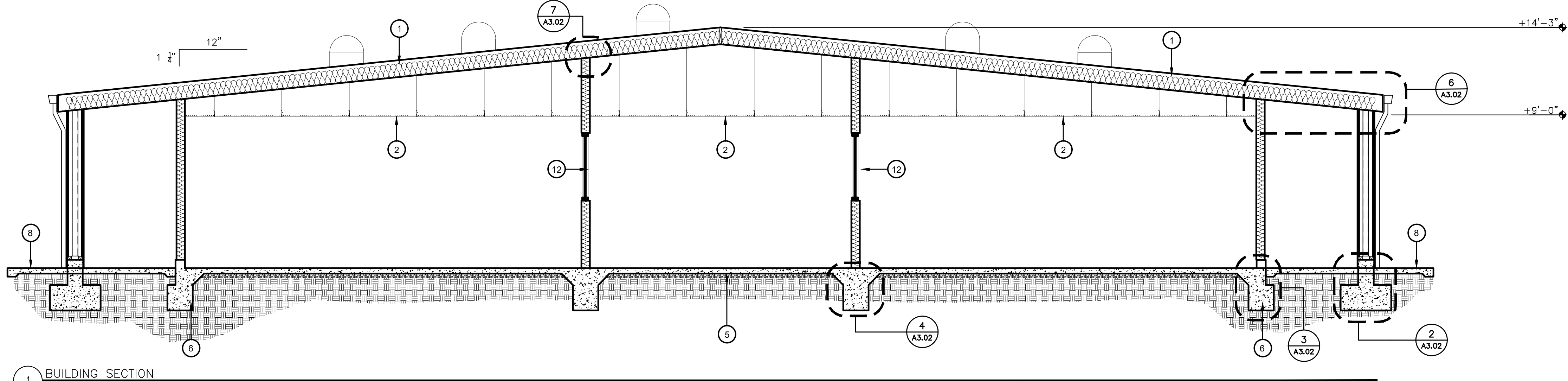


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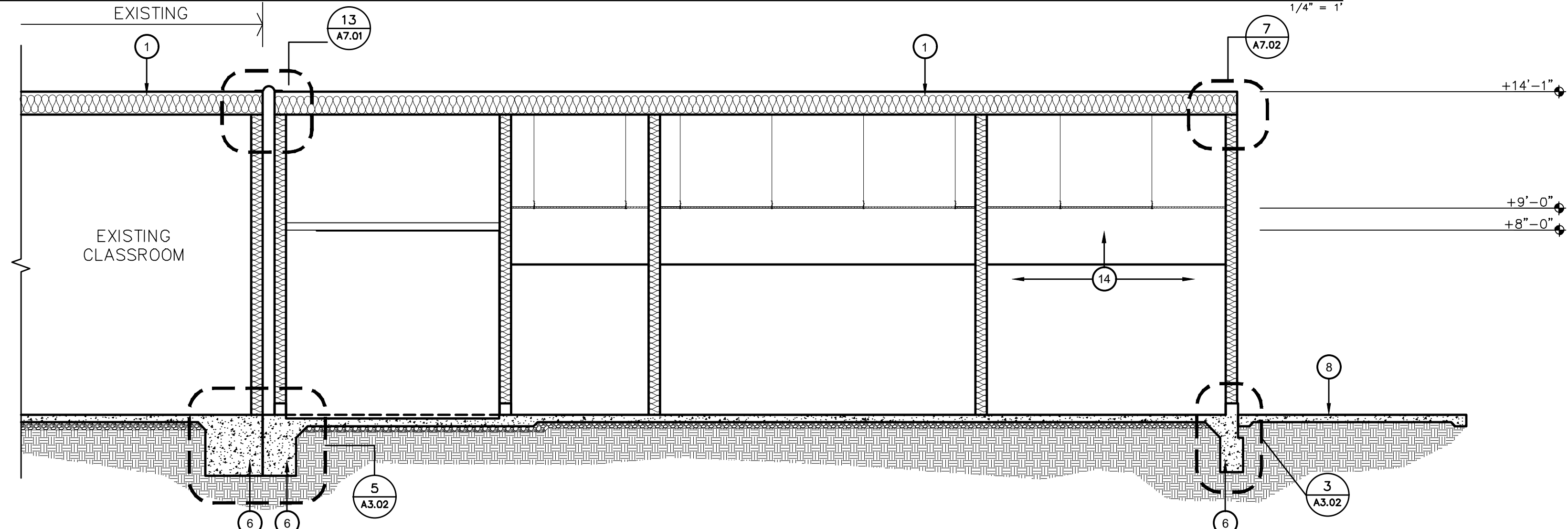
Job No.:
5593

Sheet No.:
A3.01

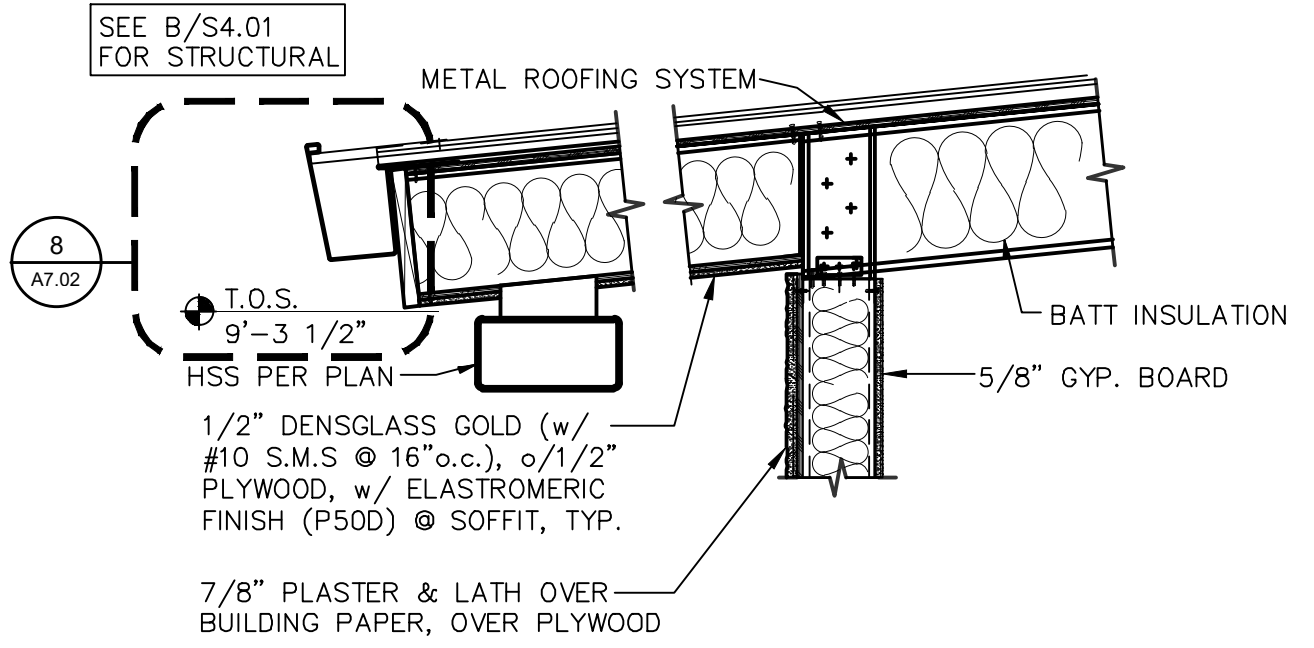
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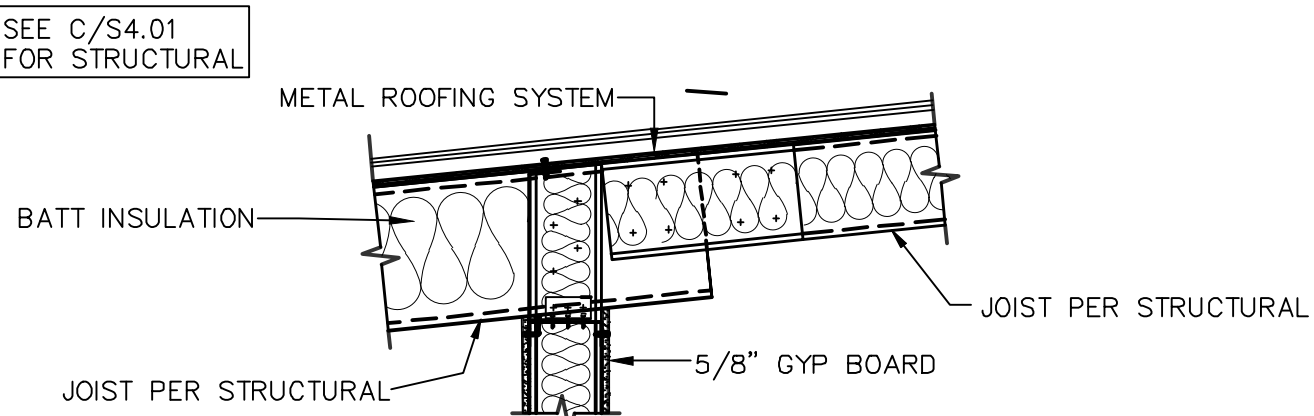
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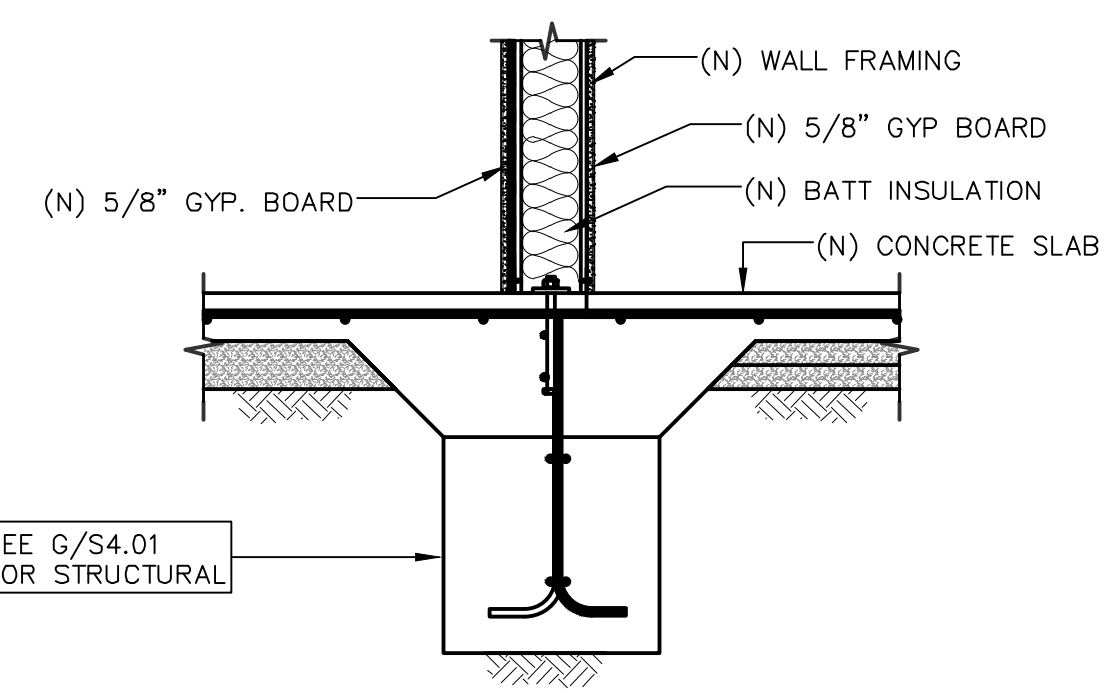
2 BUILDING SECTION



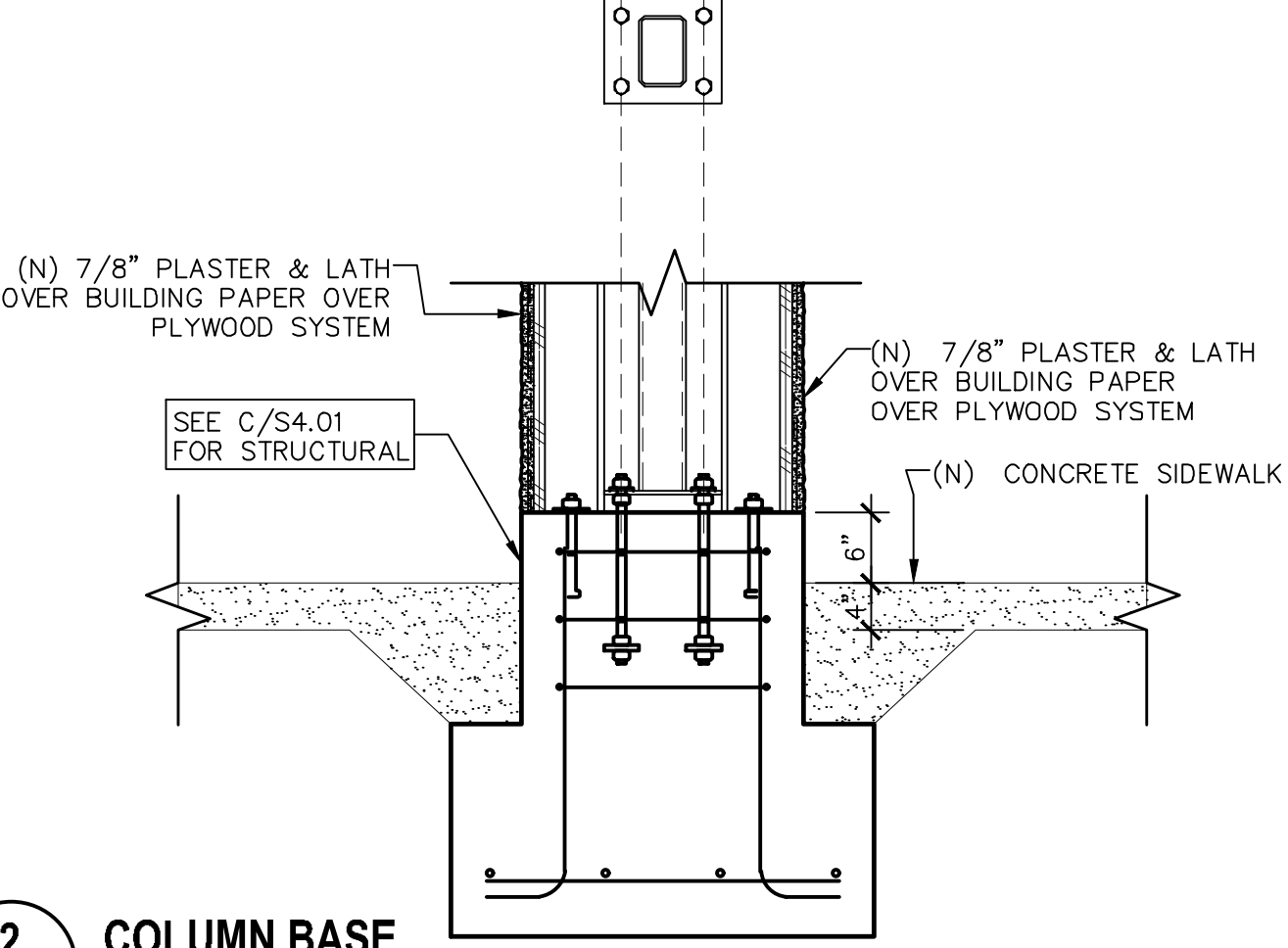
6 SOFFIT OVERHANG
A3.02 B/S4.02 SCALE: 3/4" = 1'-0"



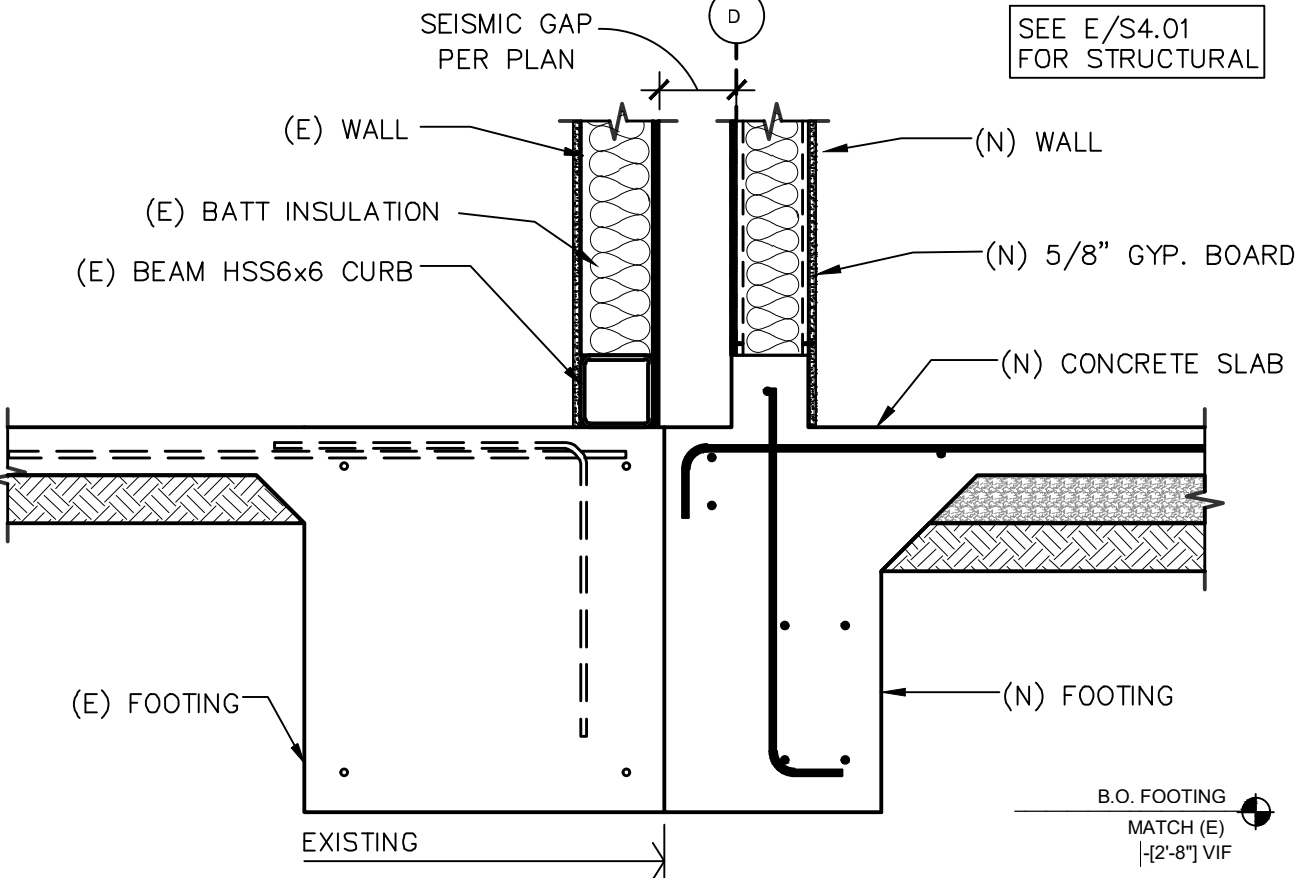
7 DETAIL
A3.02 C/S4.01 SCALE: 3/4" = 1'-0"



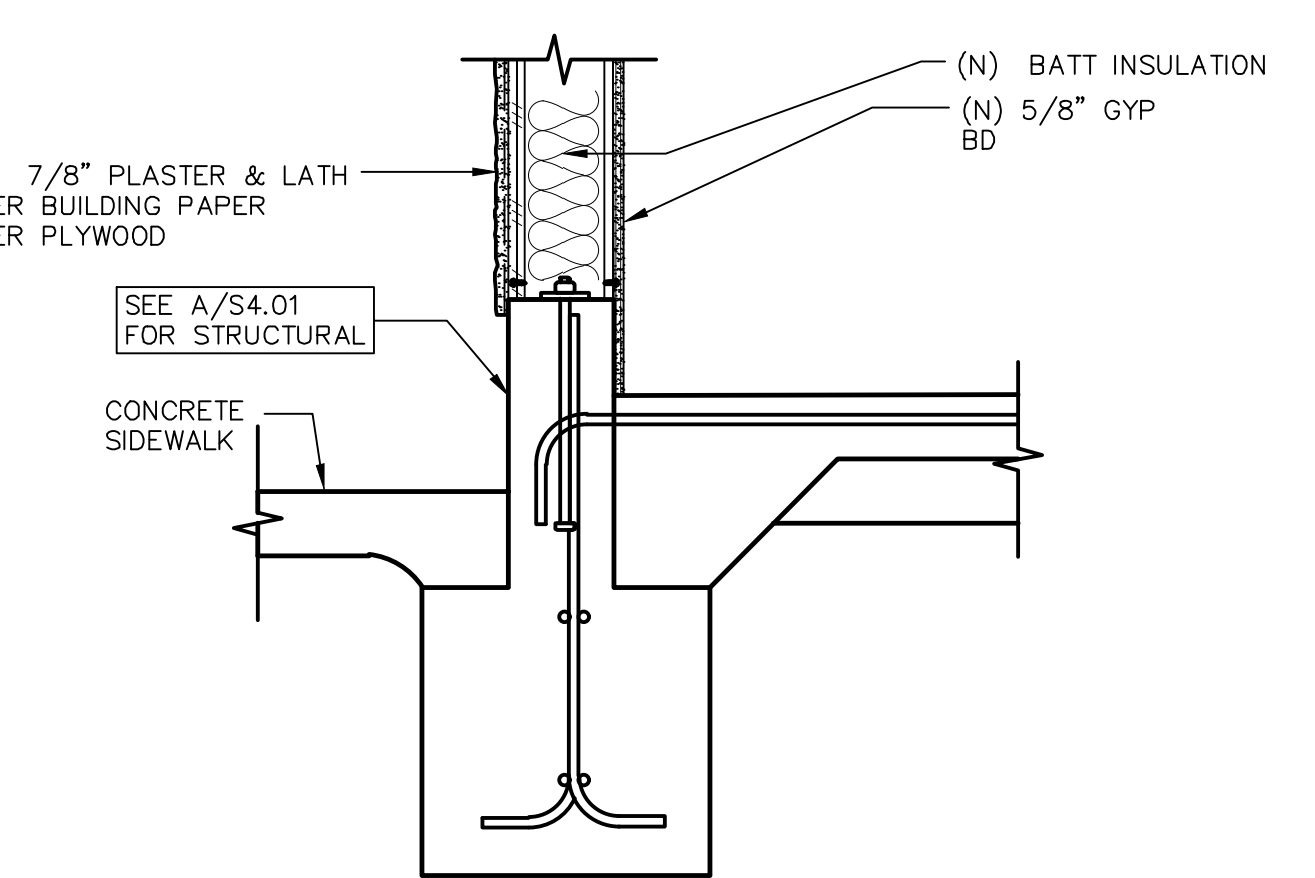
4 FOOTING DETAIL
A3.02 ADW110-04 SCALE: 3/4" = 1'-0"



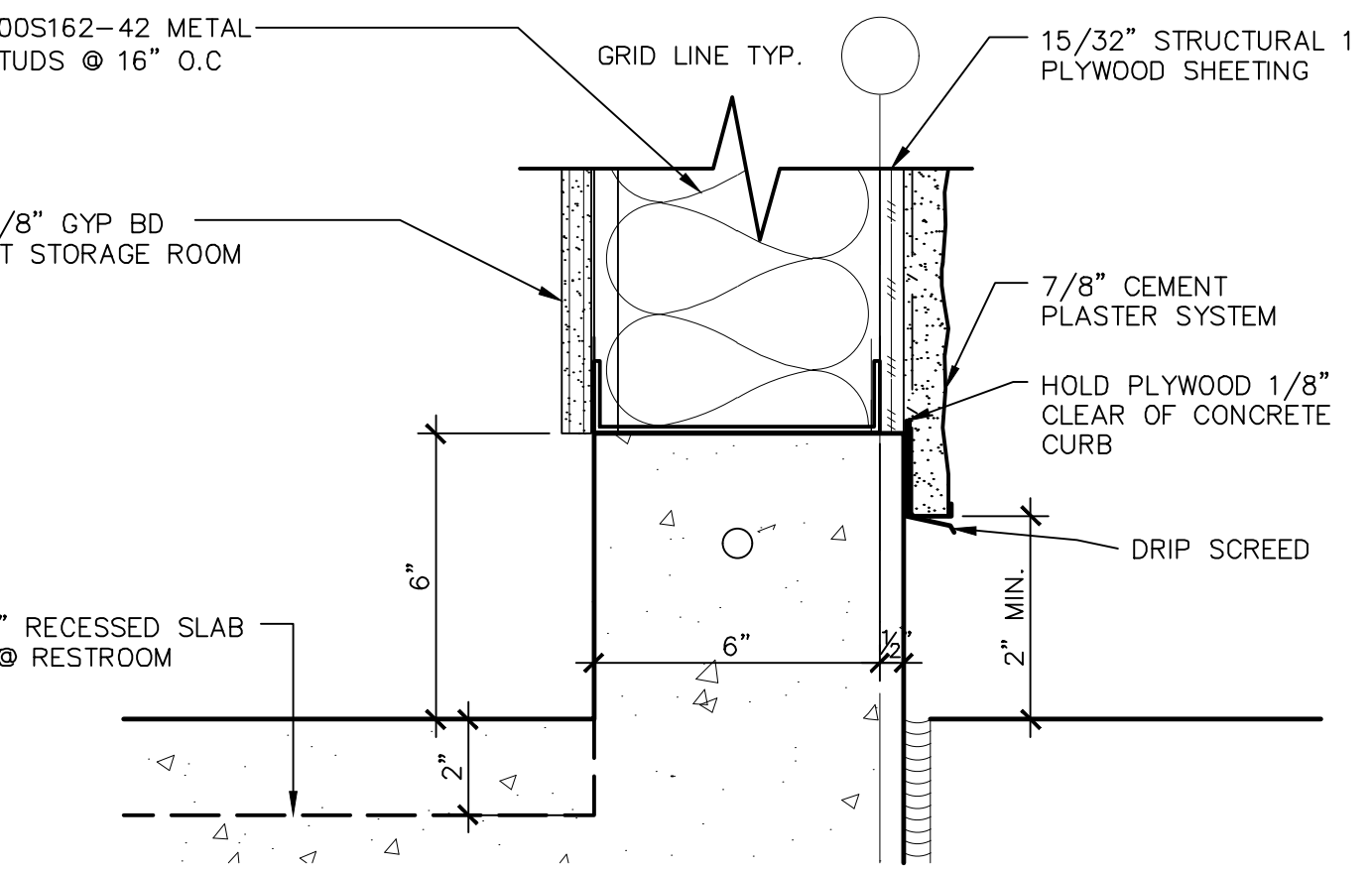
2 COLUMN BASE
A3.02 FILENAME SCALE: 3/4" = 1'-0"



5 FOOTING DETAIL
A3.02 ADW110-05 SCALE: 3/4" = 1'-0"



3 SILL PLATE @ CURB
A3.02 ADW110-03 SCALE: 1" = 1'-0"



1 CURB DETAIL
A3.02 ADB111-02 SCALE: 3" = 1'-0"

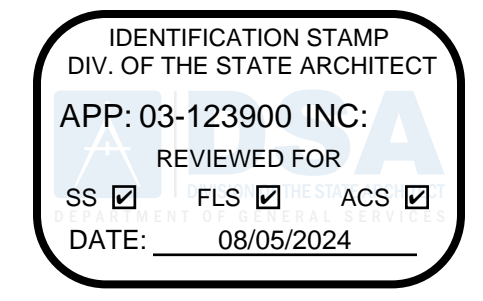
KEY NOTES

1. BATT INSULATION
2. SUSPENDED ACOUSTICAL TILE
3. STRUCTURAL FRAMING - SEE STRUCTURAL
4. SINGLE PLY ROOFING MEMBRANE or PLYWOOD
5. CONCRETE SLAB - SEE STRUCTURAL
6. CONCRETE FOOTING - SEE STRUCTURAL
7. STANDING SEAM METAL ROOFING - SEE SHEET A7.05 FOR TYPICAL DETAILS
8. CONCRETE SIDEWALK
9. NOT USED
10. NOT USED
11. CEMENT PLASTER SYSTEM
12. DOOR / WINDOW FRAME
13. NOT USED
14. GYPSUM BD.

GENERAL NOTES

1. THERE SHALL BE A MIN. OF 3 PAINT COLORS THAT WILL BE SELECTED FOR THE PROJECT
2. ALL METAL LATH WIRE SHALL BE CUT BEHIND ALL EXPANSION/CONTROL JOINTS. THE CONTRACTOR SHALL PROVIDE STUDS AS REQUIRED @ ALL JOINTS
3. INSTALL PLASTER CONTROL JOINTS AS REQUIRED BY THE SPECIFICATIONS. FOR JOINTS NOT SHOWN USE TYPE #6 PER DETAIL 5/A7.01
4. ALL EXTERIOR WINDOWS AND DOORS SHALL RECEIVE GREY LIGHT II GLASS
5. CEMENT PLASTER SHALL HAVE AN INTEGRAL COLOR AND SHALL RECEIVE A 3 COAT PLASTER SYSTEM.
 - 1) MAIN BODY
 - 2) SECONDARY BODY
 - 3) 12" ACCENT BAND
7. HOLLOW METAL FRAMES & DOORS WILL BE PAINTED WITH A MIN. OF 2 COLORS
 - 1) EXTERIOR SURFACE: 1. COLOR
 - 2) INTERIOR SURFACE: 2. COLORS
 - A) JAMB
 - B) DOOR

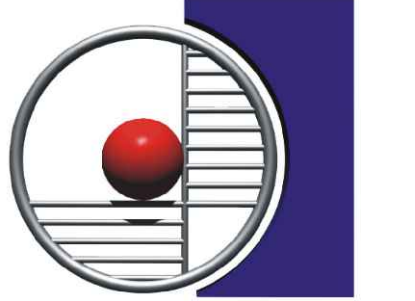
LEGEND



BAKERSFIELD CITY SCHOOL DISTRICT
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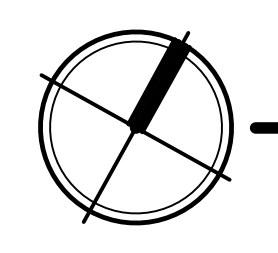
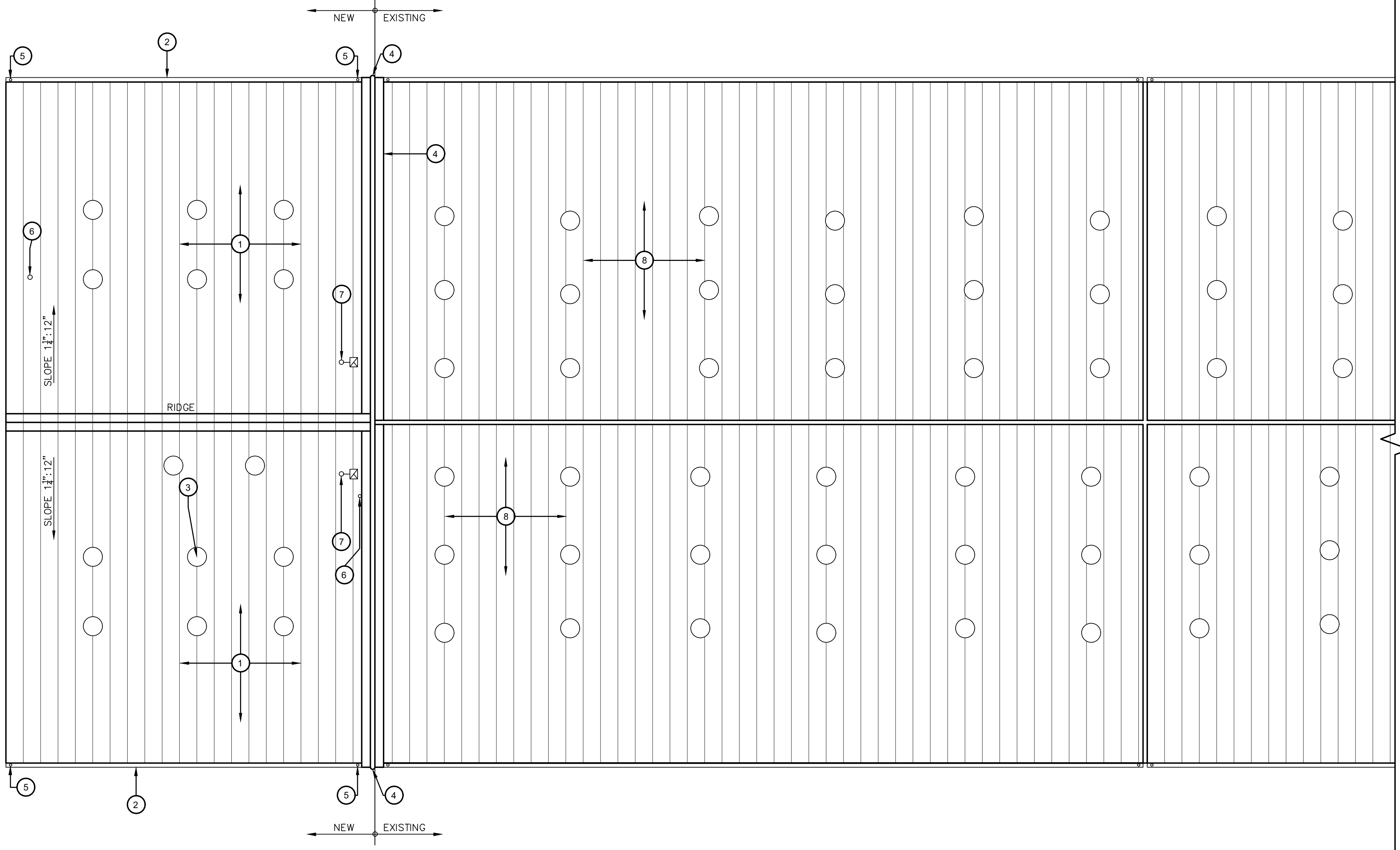
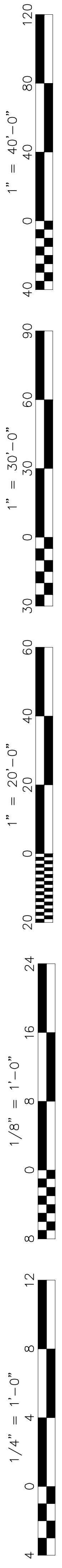


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SECTIONS

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Sheet No.: **A3.02**

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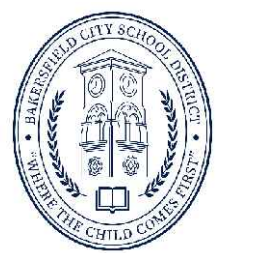
ROOF PLAN
TRANSITIONAL KINDERGARTEN

SCALE: 1/8" = 1'-0"

KEY NOTES

1. (N) 24 GA METAL ROOFING
2. (N) SHEET METAL GUTTER
3. (N) SKYLIGHT
4. (N) SEISMIC CONTROL JOINT
5. (N) DOWNSPOUT
6. (N) VENT THROUGH ROOF
7. (N) EXHAUST FAN
8. (E) ROOF NO WORK

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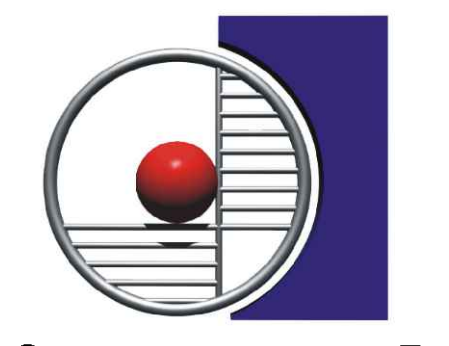
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DISTRICT**
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KINDERGARTEN**

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Bakersfield, CA 93307

GENERAL NOTES

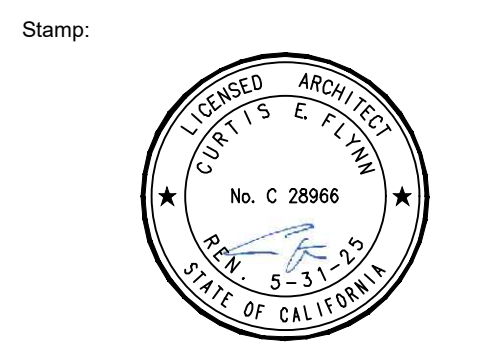
1. ALL ROOF PENETRATIONS SHALL BE WEATHER TIGHT
2. ALL SHEET METAL COPING SHALL BE PAINTED TO MATCH ADJACENT FINISH. ALL FLASHING SHALL HAVE A 15# UNDERLAYMENT.



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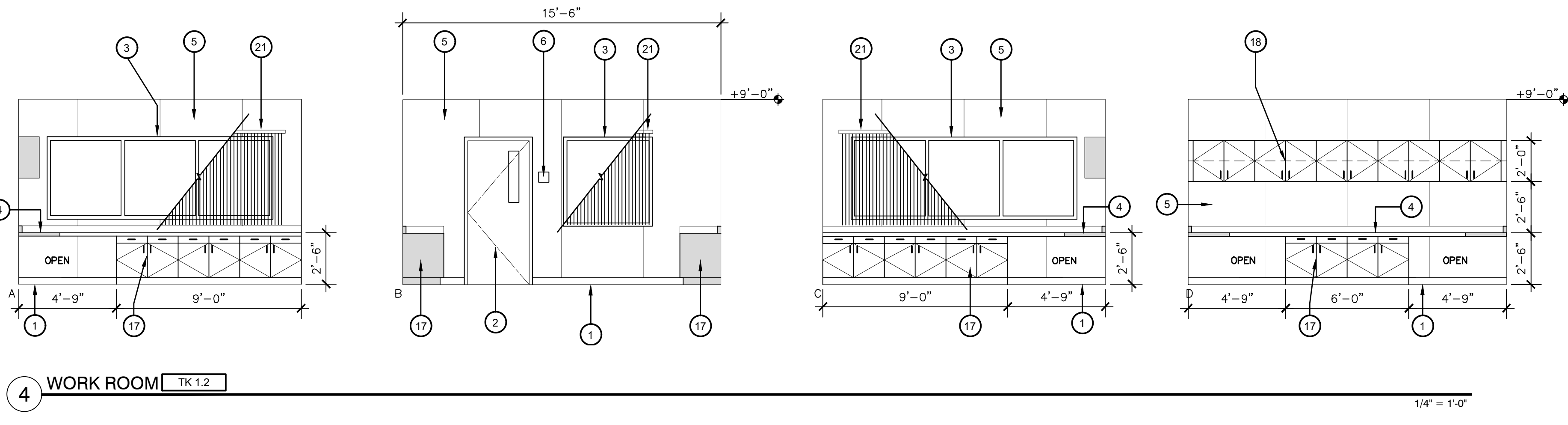
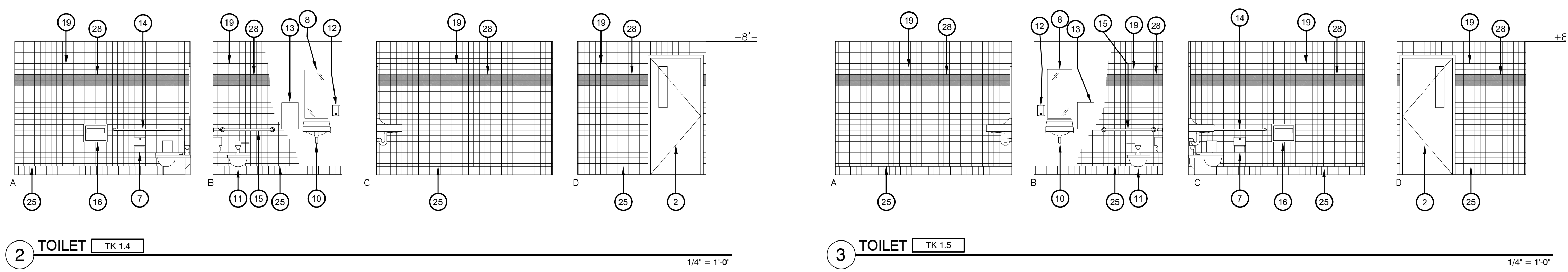
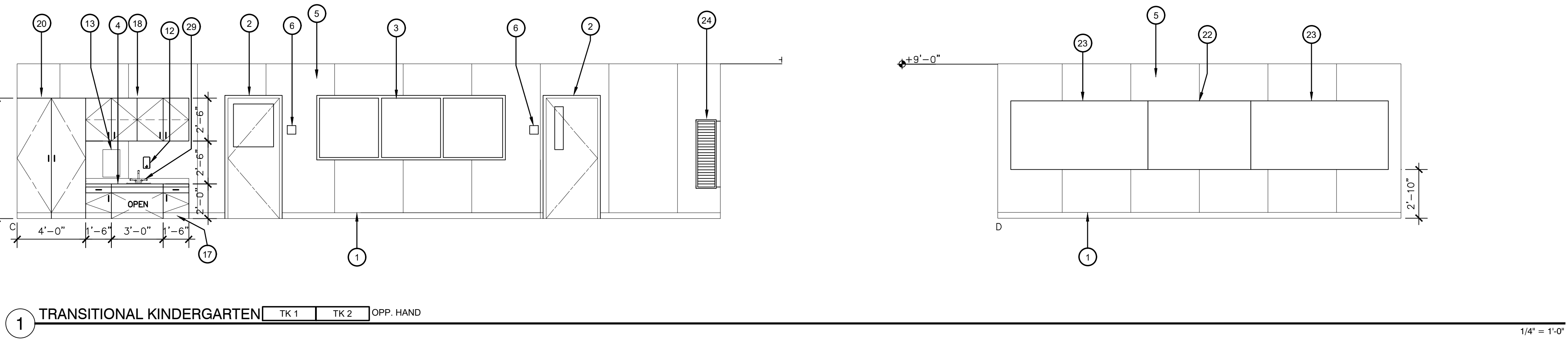
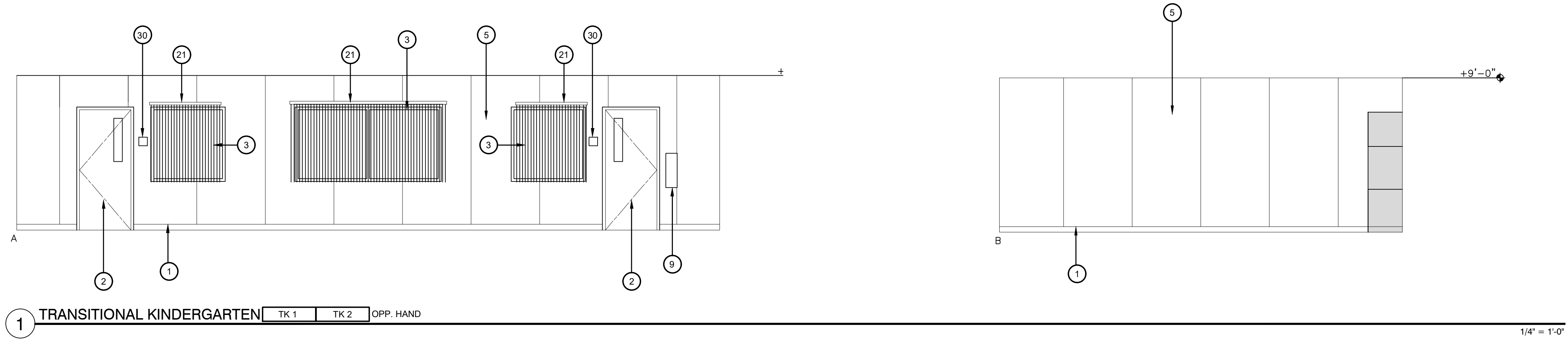
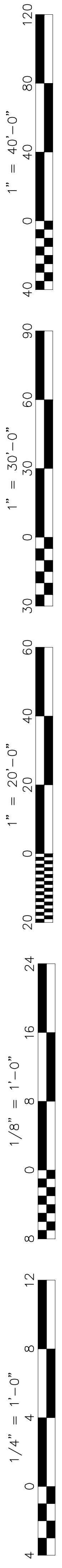
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Sheet Title:
ROOF PLAN

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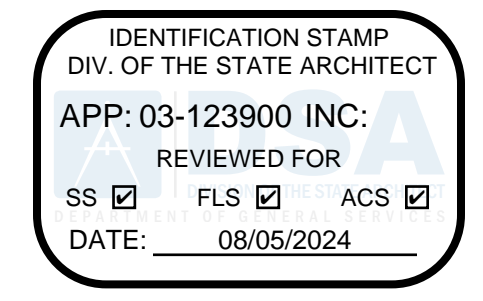


KEY NOTES

- 4" RUBBER TOPSET BASE
- DOOR & FRAME, SEE DOOR SCHEDULE
- WINDOW FRAME, SEE WINDOW SCHEDULE
- 12 MM CORIAN COUNTERTOP WITH 4" BACKSPLASH
- (N) TACKBOARD
- ROOM IDENTIFICATION SIGN, SEE DETAIL 5/A8.01
- TOILET TISSUE DISPENSER
- MIRROR
- FIRE EXTINGUISHER CABINET
- LAVATORY - SEE PLUMBING DRAWINGS
- FLOOR MOUNTED WATER CLOSET - SEE PLUMBING
- WALL MOUNTED SOAP DISPENSER - F.B.O. INSTALLED BY CONTRACTOR
- PAPER TOWEL DISPENSER F.B.O. INSTALLED BY CONTRACTOR
- 48" LONG GRAB BAR GB-1 - SEE DETAIL 8/A8.01
- 36" LONG GRAB BAR GB-1 - SEE DETAIL 8/A8.01
- TOILET SEAT COVER DISPENSER
- BASE CABINETS - SEE DETAIL 1/A8.02
- UPPER CABINET - SEE DETAIL 1/A8.02
- CERAMIC WALL TILE
- TALL STORAGE CABINET - SEE DETAIL 1/A8.02
- VERTICAL BLINDS
- SMART BOARD
- MARKER BOARD - SEE DETAIL 9/A8.02
- WALL LOUVER - SEE MECHANICAL
- 6" HIGH CERAMIC TILE COVE BASE
- NOT USED
- NOT USED
- CERAMIC WALL TILE ACCENT COLOR
- SINK W/ FAUCET - SEE PLUMBING
- TACTILE EXIT SIGN - SEE DETAIL 4/A8.01

GENERAL NOTES

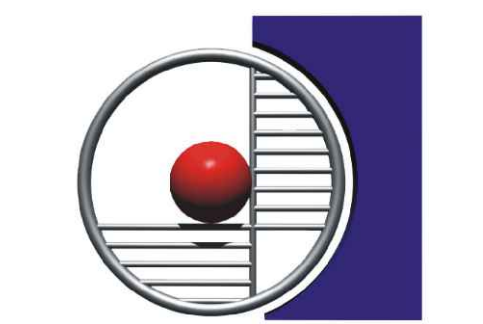
- REFER TO ROOM FINISH SCHEDULE FOR FINISHES. SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS & FINISHES.
- CONTRACTOR SHALL PROVIDE BACKING AS PER MANUFACTURER'S REQUIREMENTS FOR ALL WALL MOUNTED ACCESSORIES. SEE DETAIL 7/A8.01 FOR ACCESSORY MOUNTING HEIGHTS AND DETAIL 1/A8.02 FOR CASEWORK ANCHORING.
- COLORS FOR ALL ITEMS OF WORK SHALL BE SELECTED BY ARCHITECT.
- ALL CABINET DOOR PULLS SHALL BE MOUNTED VERTICALLY AND DRAWER PULLS SHALL BE MOUNTED HORIZONTALLY.
- CONTRACTOR SHALL COORDINATE W/ ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS FOR LOCATIONS OF ALL OUTLETS, EXITS SIGNS, DATA BOXES, ACCESS DOORS, AND REQUIRED FINISHES.
- SEE DETAILS ON SHEET A8.01 FOR STANDARD MINIMUM ACCESSIBLE CLEARANCES/HEIGHTS AT TOILETS, LAVATORIES, TOILET ACCESSORIES, DRINKING FOUNTAINS, ETC.



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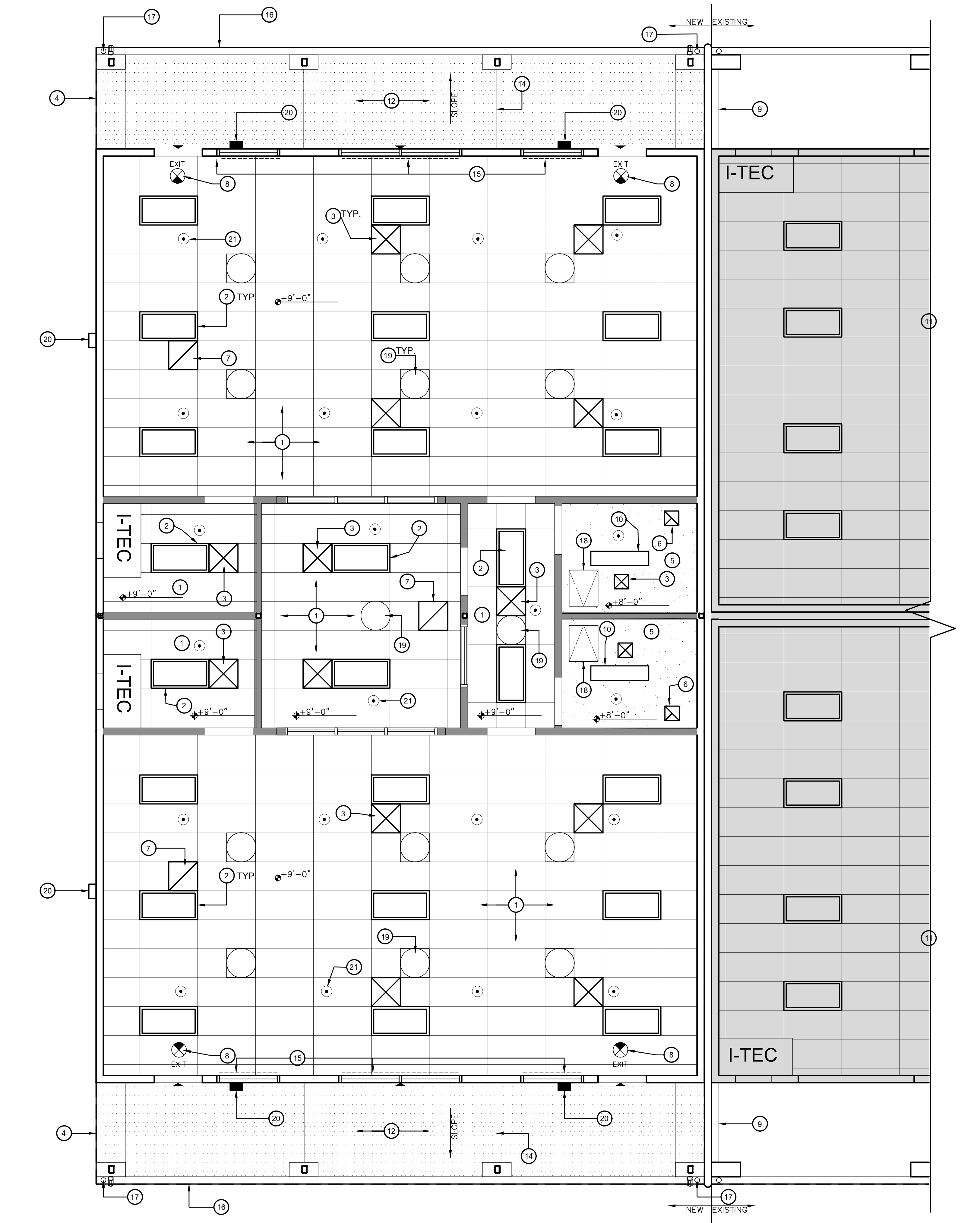
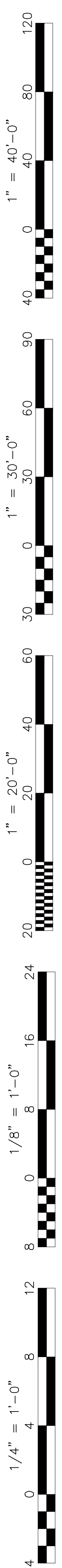
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Sheet Title:
INTERIOR ELEVATIONS

Job No.:
5593

Sheet No.:
A5.01



1 REFLECTED CEILING PLAN
A6.01 **TRANSITIONAL KINDERGARTEN** 1/4" = 1'0"

KEY NOTES

1. SUSPENDED ACOUSTICAL PANEL CEILING SEE SHEETS A8.04 & A8.05
2. RECESSED LIGHT FIXTURE - SEE ELECTRICAL
3. MECHANICAL SUPPLY GRILLE - SEE MECHANICAL
4. ROOF OVERHANG
5. GYPSUM BOARD CEILING - SEE DETAIL 14/A7.05
6. EXHAUST FAN - SEE MECHANICAL
7. RETURN GRILLE - SEE MECHANICAL
8. ILLUMINATED EXIT SIGN - SEE ELECTRICAL
9. SEISMIC CONTROL JOINT
10. 1'x4' SURFACE MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
11. NO WORK IN THIS ROOM
12. CEMENT PLASTER SOFFIT - SEE DETAIL 6/A3.02.
13. 3" CONTINUOUS VENT SCREED
14. CONTROL JOINT
15. VERTICAL BLINDS
16. SHEET METAL RAIN GUTTER
17. DOWNSPOUT
18. ATTIC ACCESS DOOR - SEE DETAIL 2/A7.02.
19. SOLATUBE - SKYLIGHT DIFFUSER - SEE DETAIL 11/A7.02.
20. WALL MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

GENERAL NOTES

1. ALL GYPSUM BOARD SOFFITS AND CEILINGS SHALL BE 5/8" THICK, UNLESS NOTED OTHERWISE.
2. SEE INTERIOR ELEVATIONS / SECTIONS FOR ADDITIONAL INFORMATION AT SPECIAL CEILING AREAS
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER WATER TIGHT FLASHING AROUND ALL ROOF PENETRATIONS, PER SMACNA STANDARDS

LEGEND

	SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
	CEMENT PLASTER SOFFIT
	2x4 RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
	WALL MOUNTED LIGHT FIXTURE
	1x4 SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
	EXIT SIGN
	MECHANICAL SUPPLY GRILLE (SEE MECHANICAL DRAWINGS)
	MECHANICAL RETURN GRILLE (SEE MECHANICAL DRAWINGS)
	EXHAUST FAN (SEE MECHANICAL DRAWINGS)
	GYPSUM BOARD CEILING
	SOLATUBE - SKYLIGHT DIFFUSER
	CEILING FIRE SPRINKLER
	WALL FIRE SPRINKLER

KEY NOTES

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BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
 BAKERSFIELD CA 93305

Project Name:

TRANSITIONAL KINDERGARTEN

Project Address:

MLK ELEMENTARY SCHOOL

1100 Citadel
Bakersfield, CA 93307

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REFLECTED CEILING PLAN

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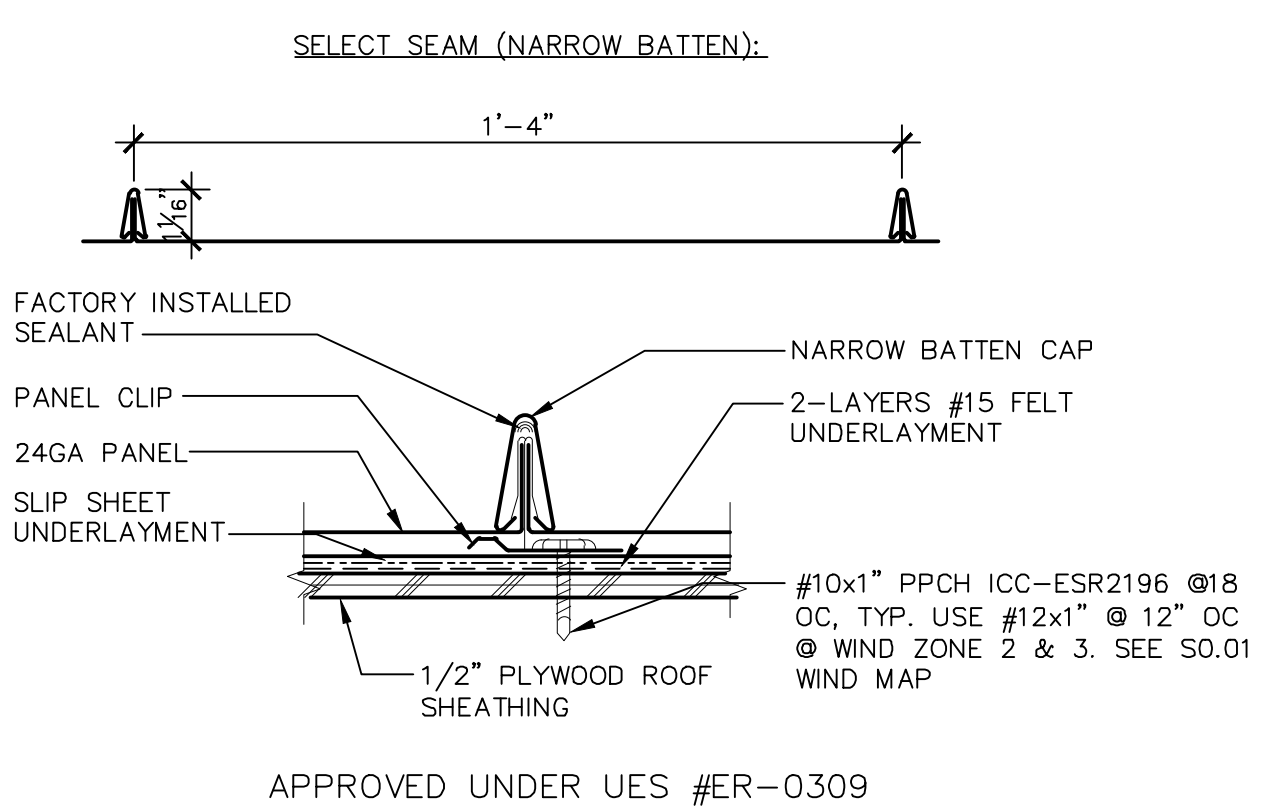
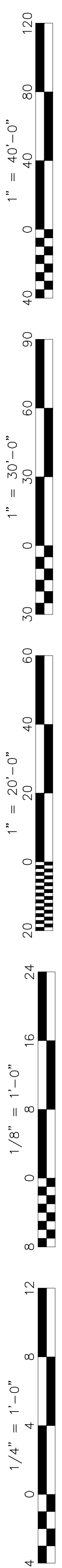
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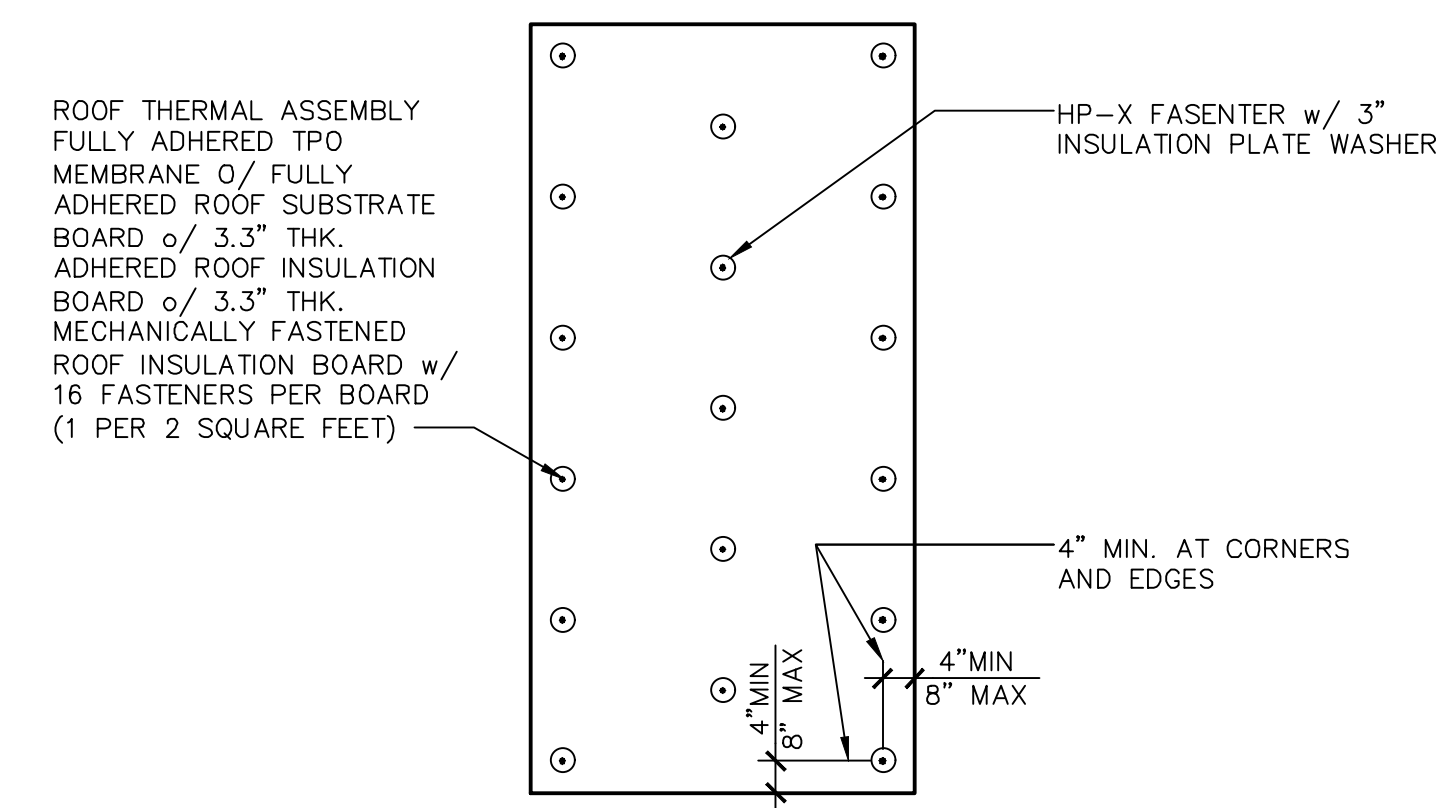
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Release: DSA SUBMITTAL Issue Date: 7/24/24

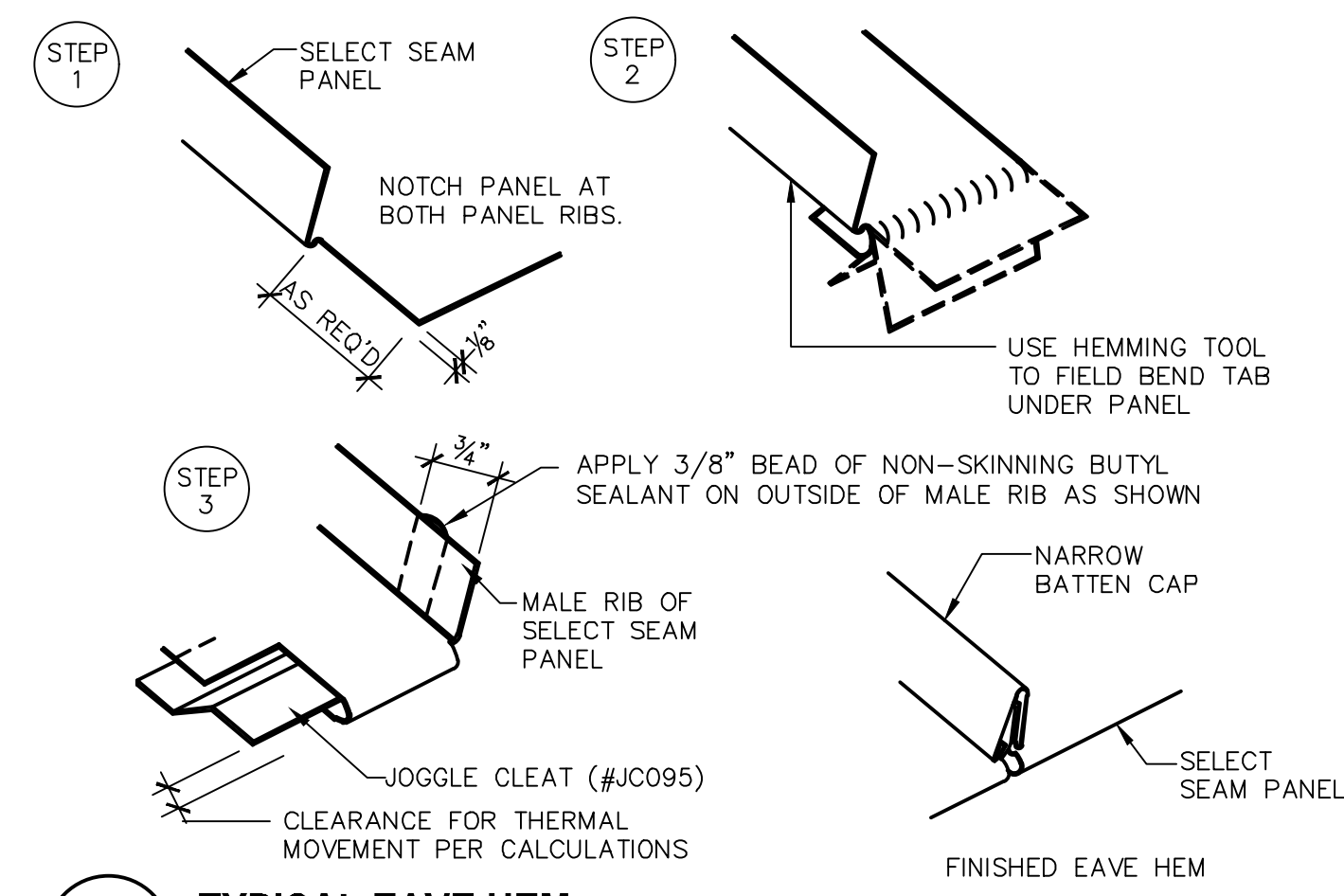
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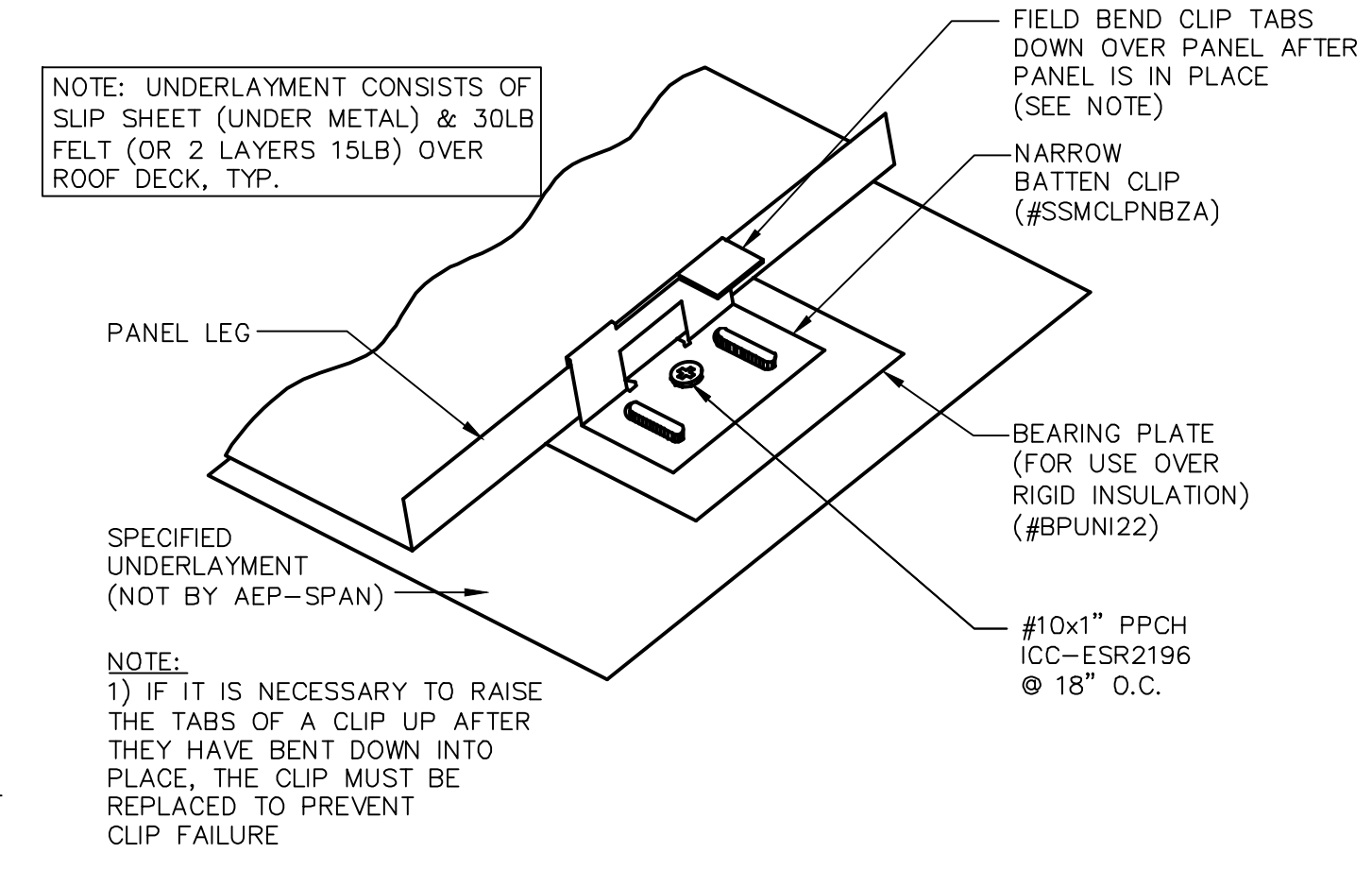
9 STANDING SEAM METAL ROOF PANEL
 A7.02 ADR-SS1 SCALE: 3" = 1'-0"



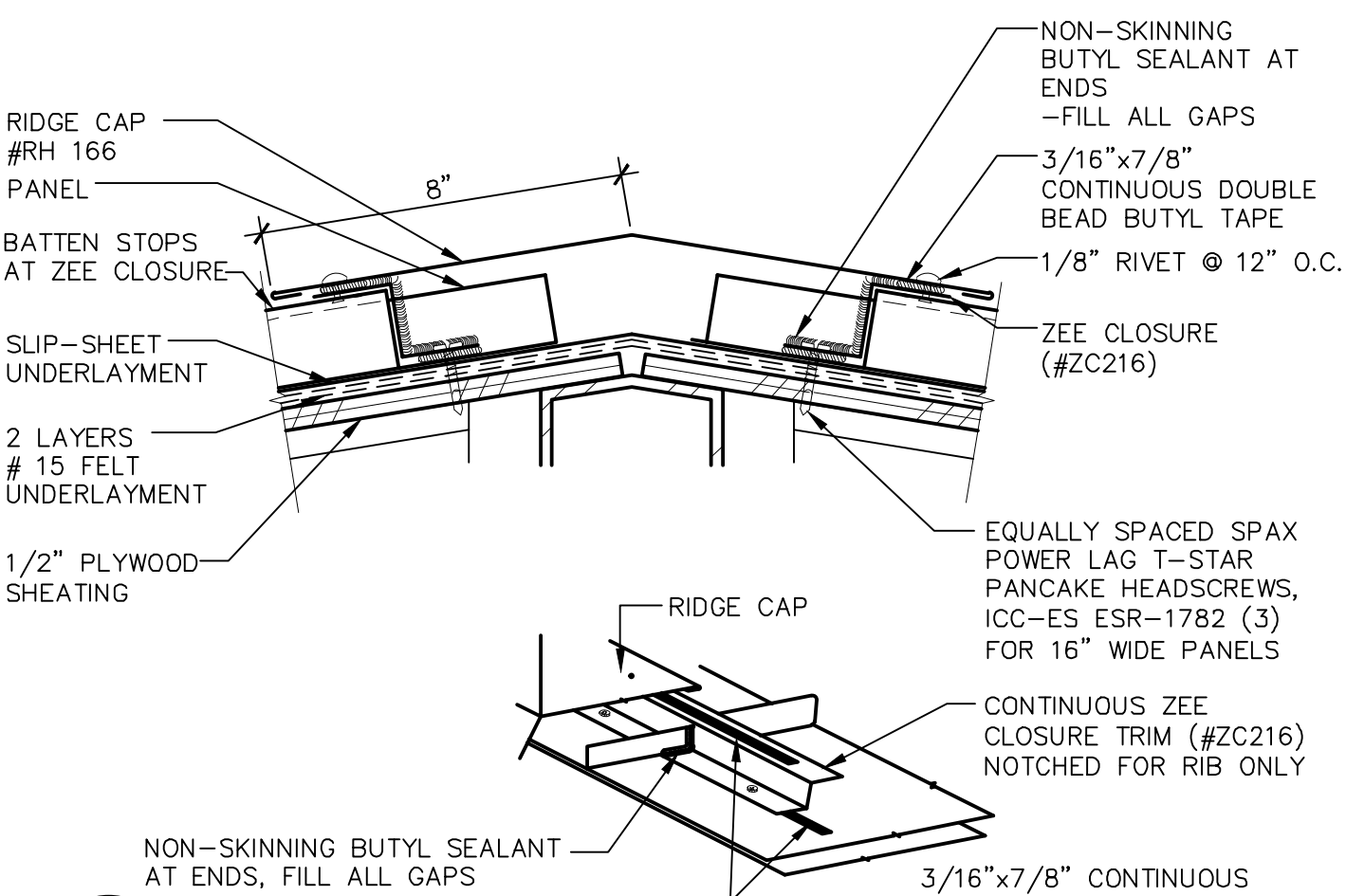
10 TYP. 4'x8' ROOF INSUL. BD. ATTACHMENT
 A7.02 A702_25 SCALE: 1/2" = 1'-0"



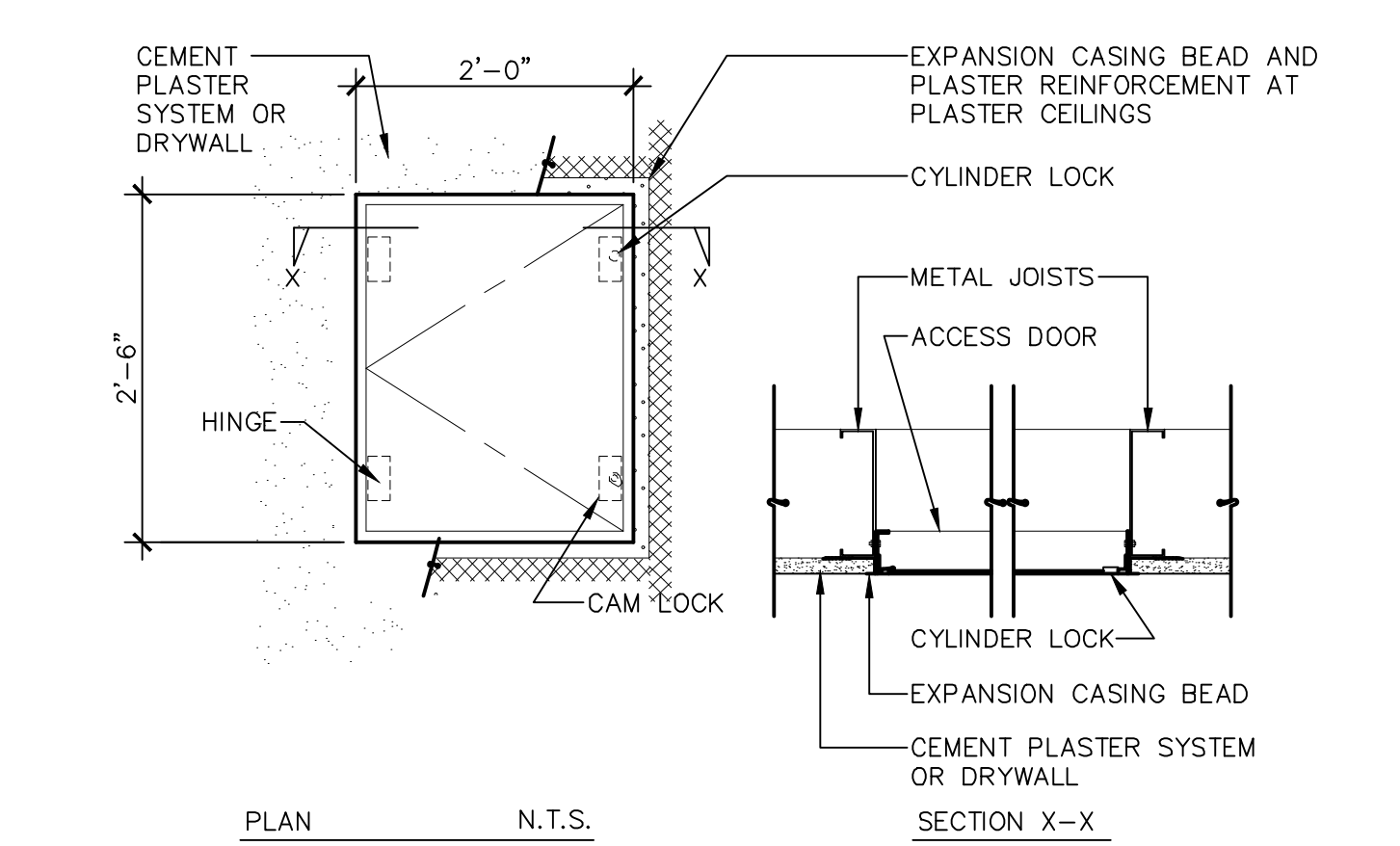
5 TYPICAL EAVE HEM
 A7.02 ADR-SS4 NO SCALE



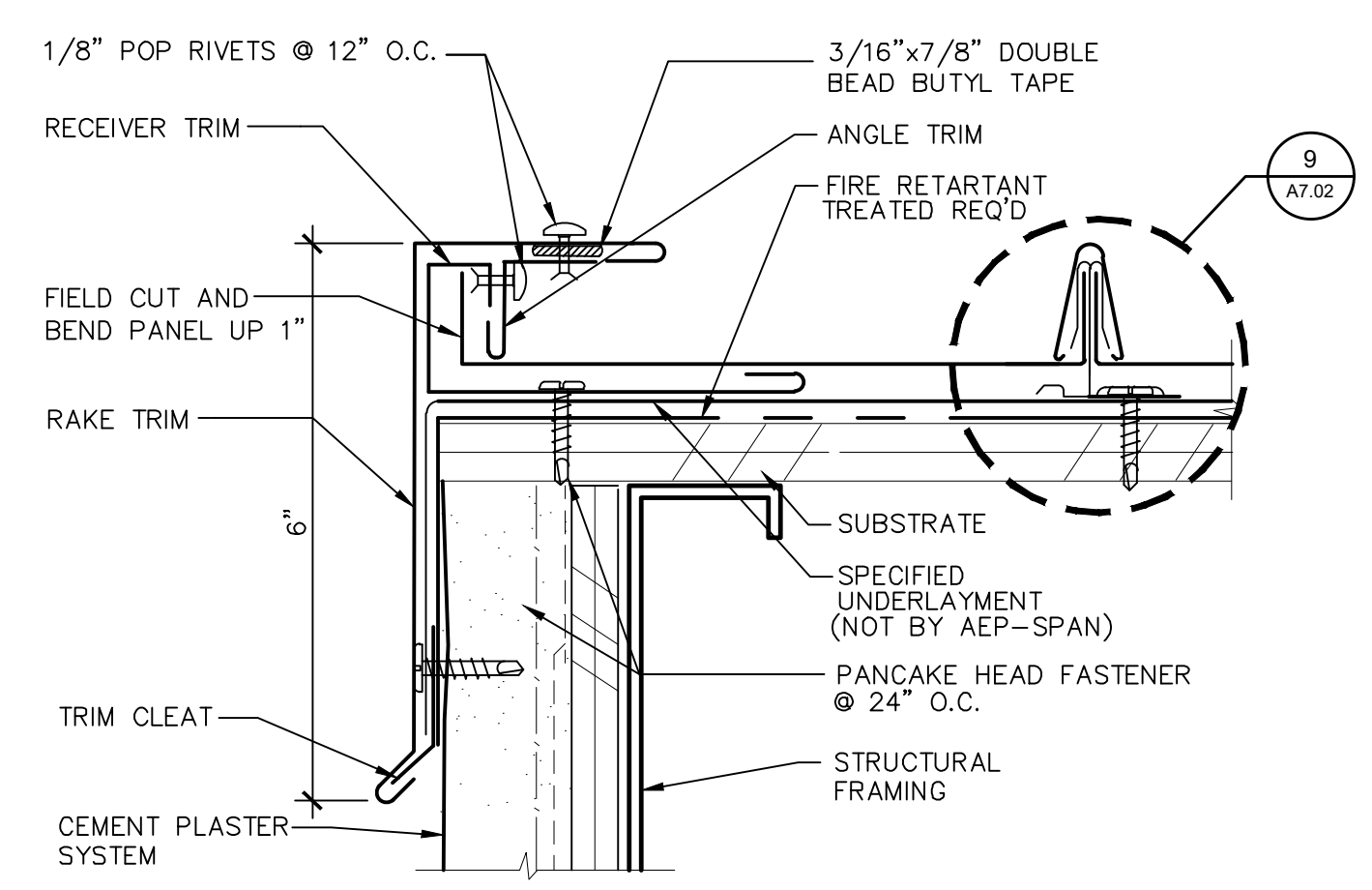
1 PANEL CLIP
 A7.02 ADR-SS6 SCALE: 1" = 1'-0"



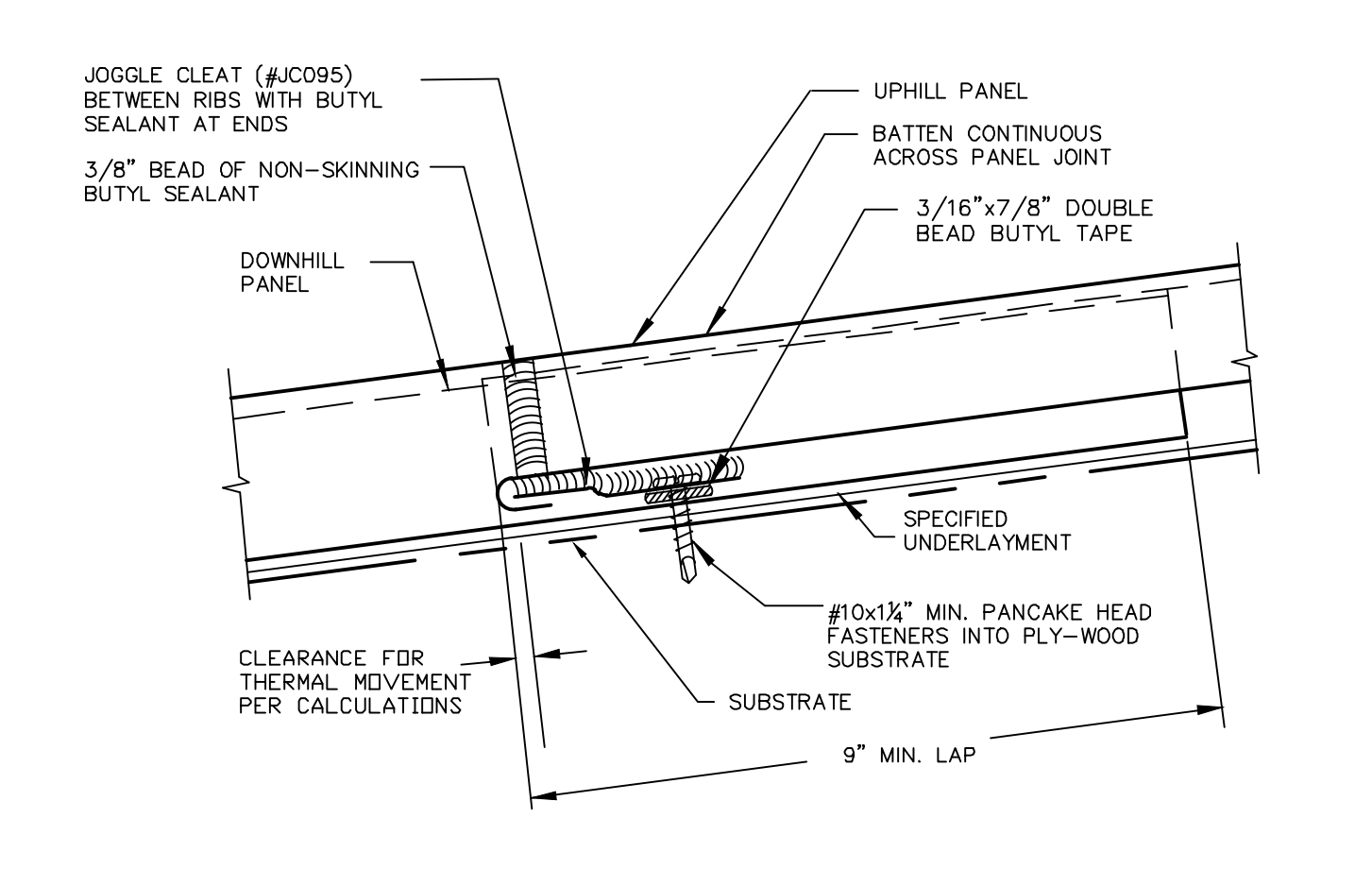
6 RIDGE / HIP
 A7.02 ADR-SS2 SCALE: 3" = 1'-0"



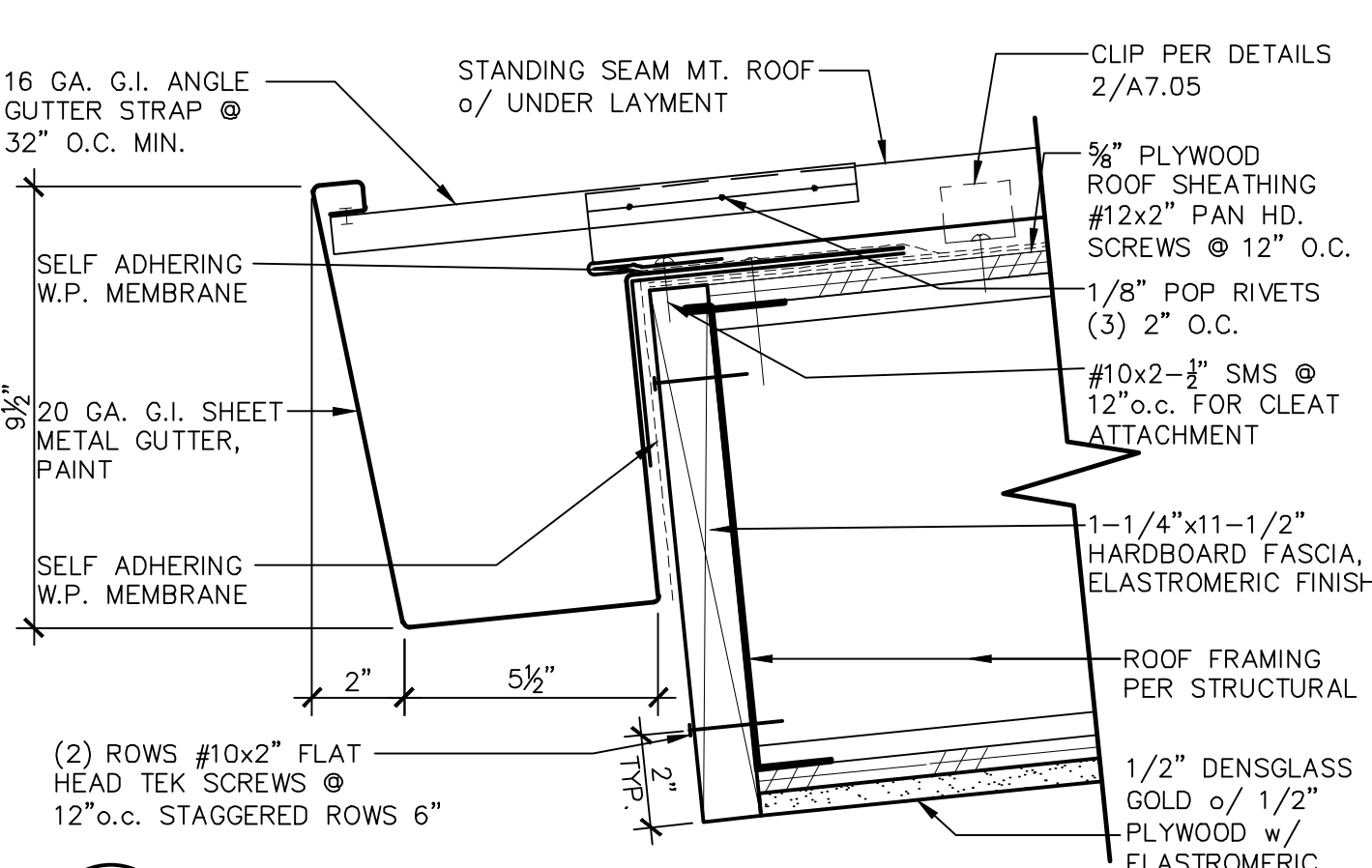
2 FLUSH METAL ACCESS DOOR AT CEILING
 A7.02 ADR-SS3 SCALE: 3/4" = 1'-0"



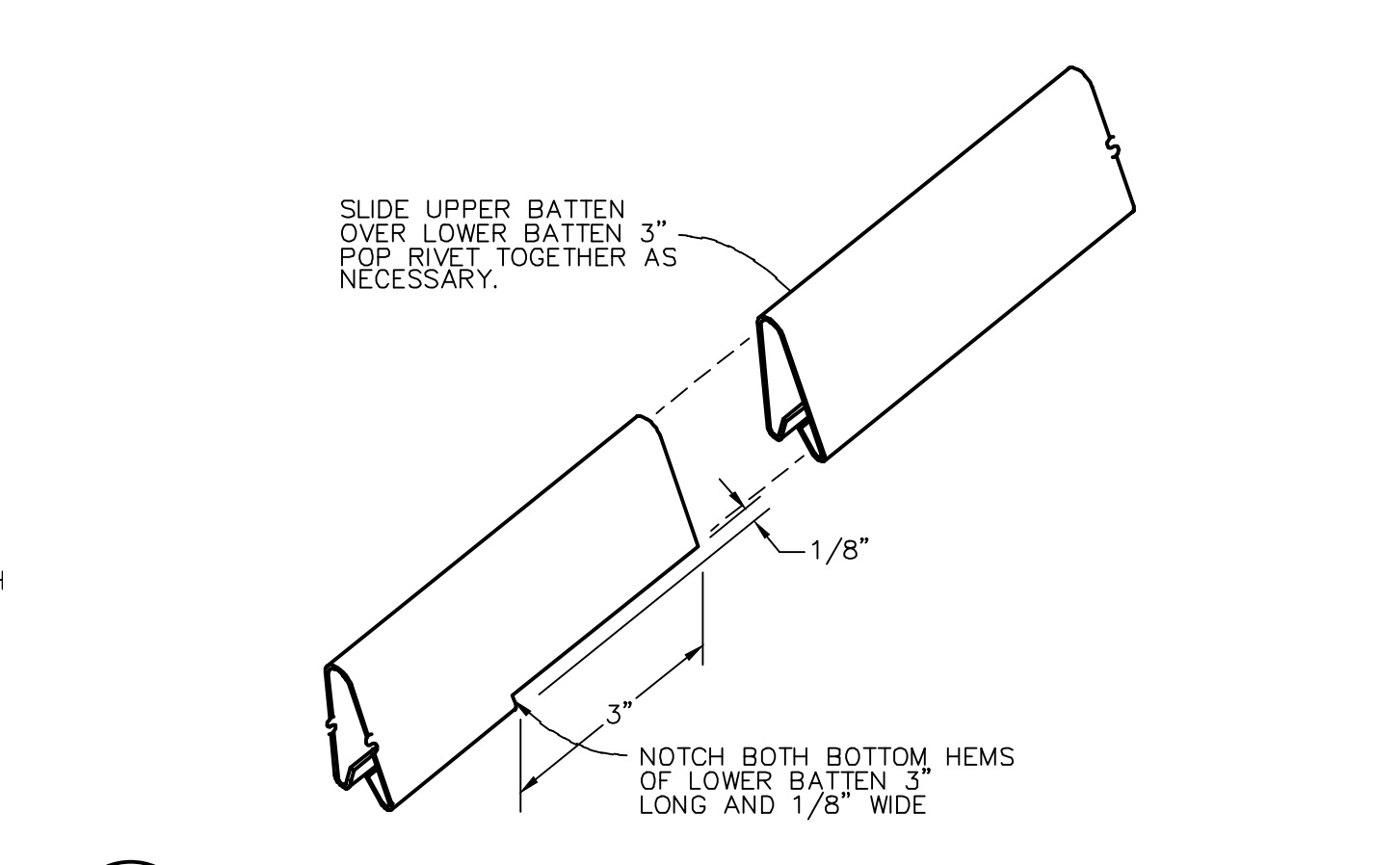
7 STANDING SEAM METAL ROOF RAKE DETAIL
 A7.02 ADR-SS12 SCALE: 6" = 1'-0"



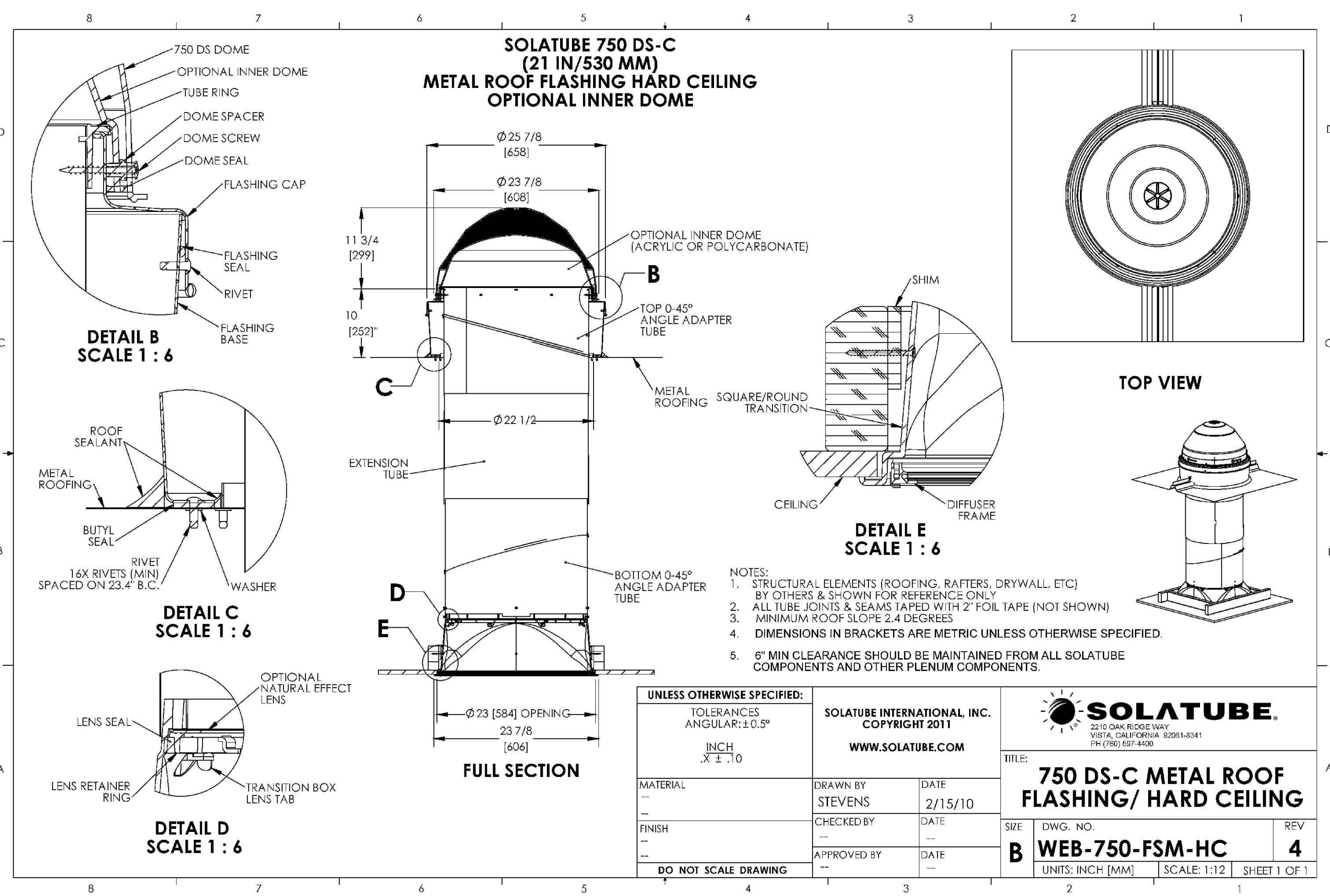
3 STANDING SEAM PANEL LAP
 A7.02 ADR-SS8 NO SCALE



8 HANGER GUTTER DETAIL
 A7.02 ADR-SS14 SCALE: 3" = 1'-0"



4 BATTEN LAP
 A7.02 ADR-SS9 NO SCALE



11 SOLATUBE 750 DS-C (21 IN/530 MM) METAL ROOF FLASHING HARD CEILING OPTIONAL INNER DOME
 A7.02

UNLESS OTHERWISE SPECIFIED:		TOLERANCES ANGULAR: 1/10°	
INCH .X ± .10		SOLATUBE INTERNATIONAL INC. COPYRIGHT 2011 WWW.SOLATUBE.COM	
MATERIAL	DRAWN BY STEVENS	DATE 2/15/10	TITLE: 750 DS-C METAL ROOF FLASHING/ HARD CEILING
FINISH	CHECKED BY	DATE	SIZE DWG. NO. B WEB-750-FSM-HC
DO NOT SCALE DRAWING	APPROVED BY	DATE	REVISION 4
			UNITS: INCH [MM] SCALE: 1:12 SHEET 1 OF 1

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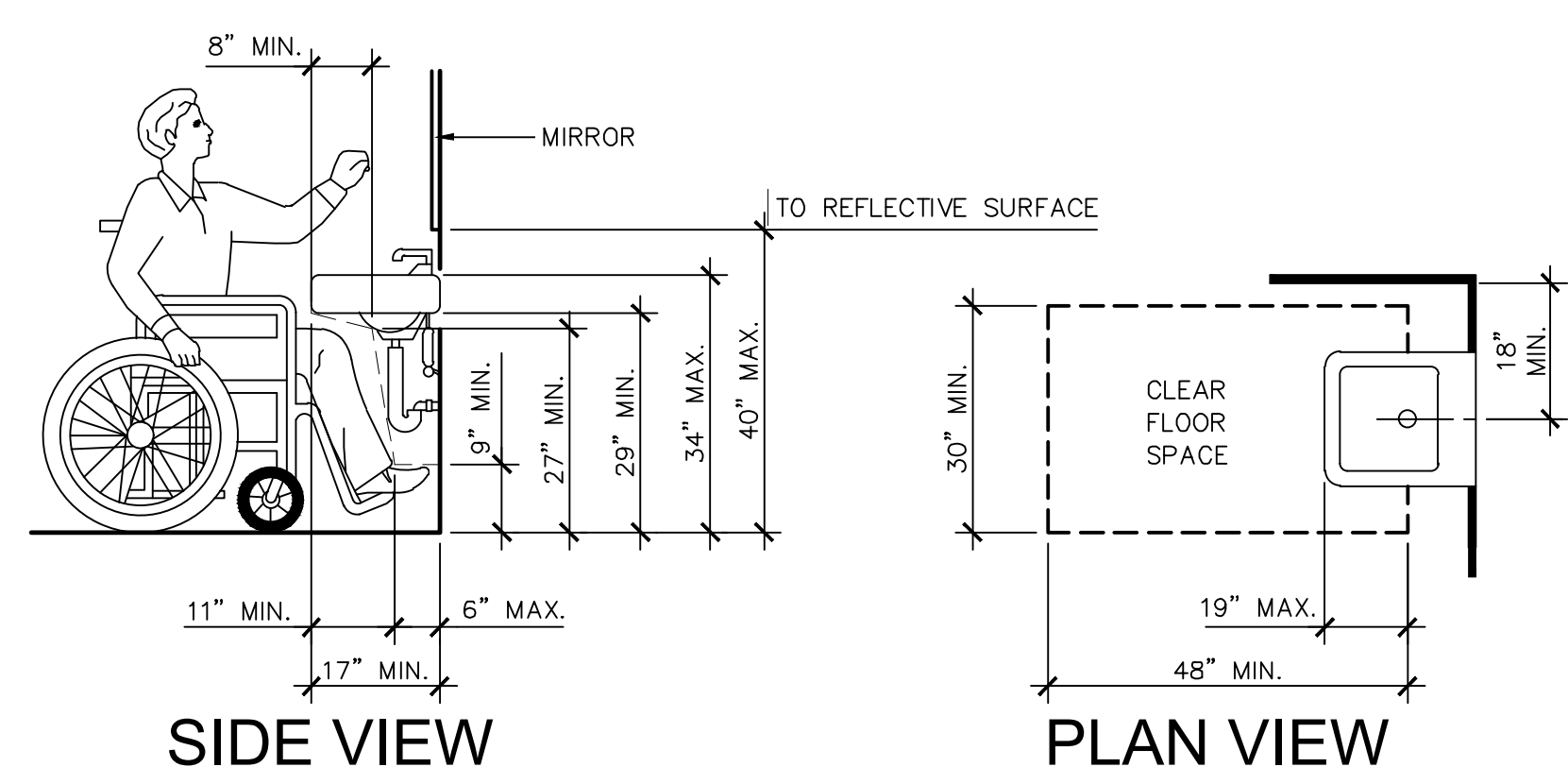
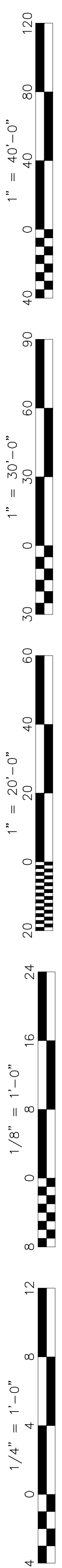
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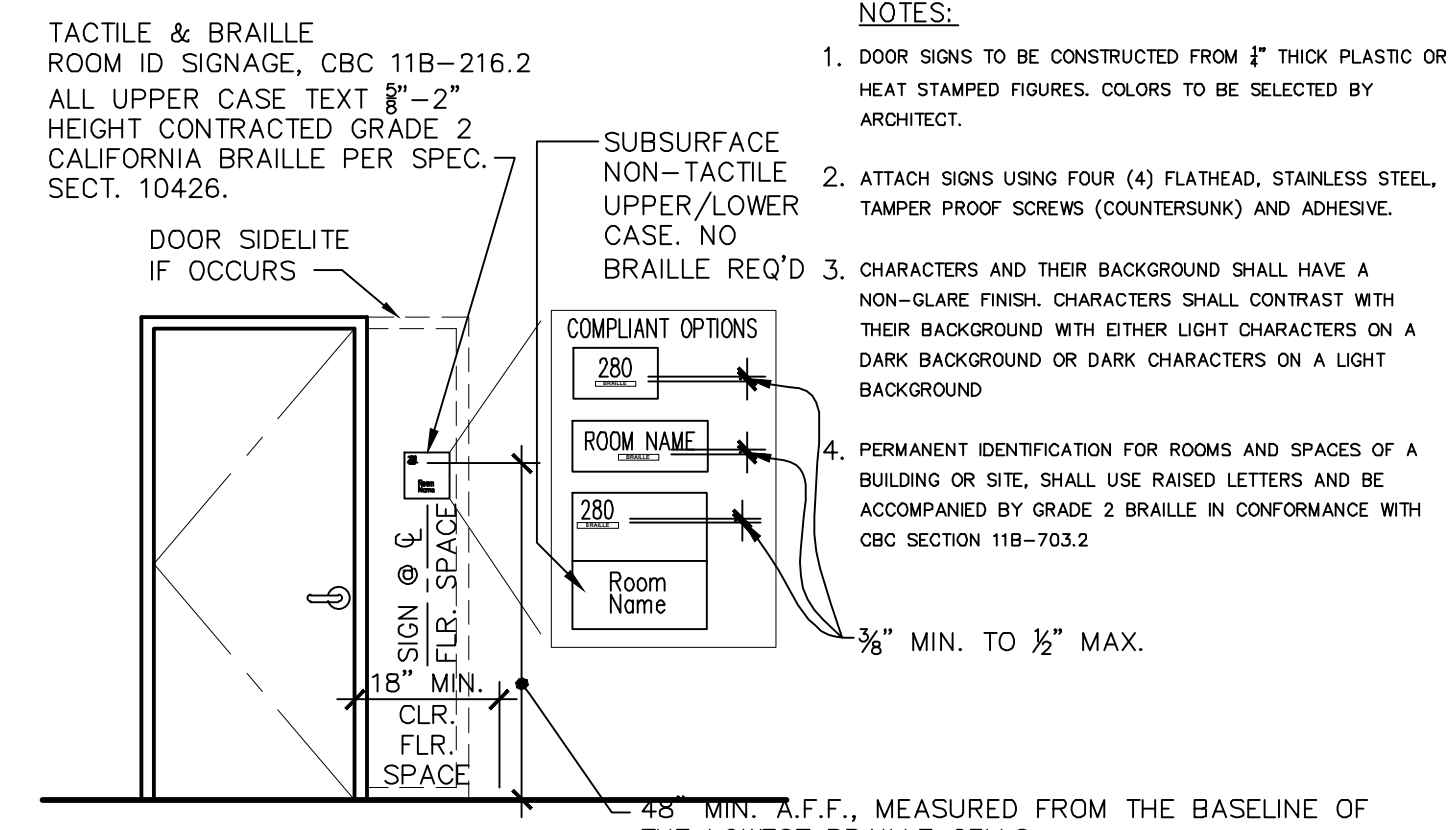
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EXTERIOR DETAILS

Job No.: **5593**
 Sheet No.: **A7.02**

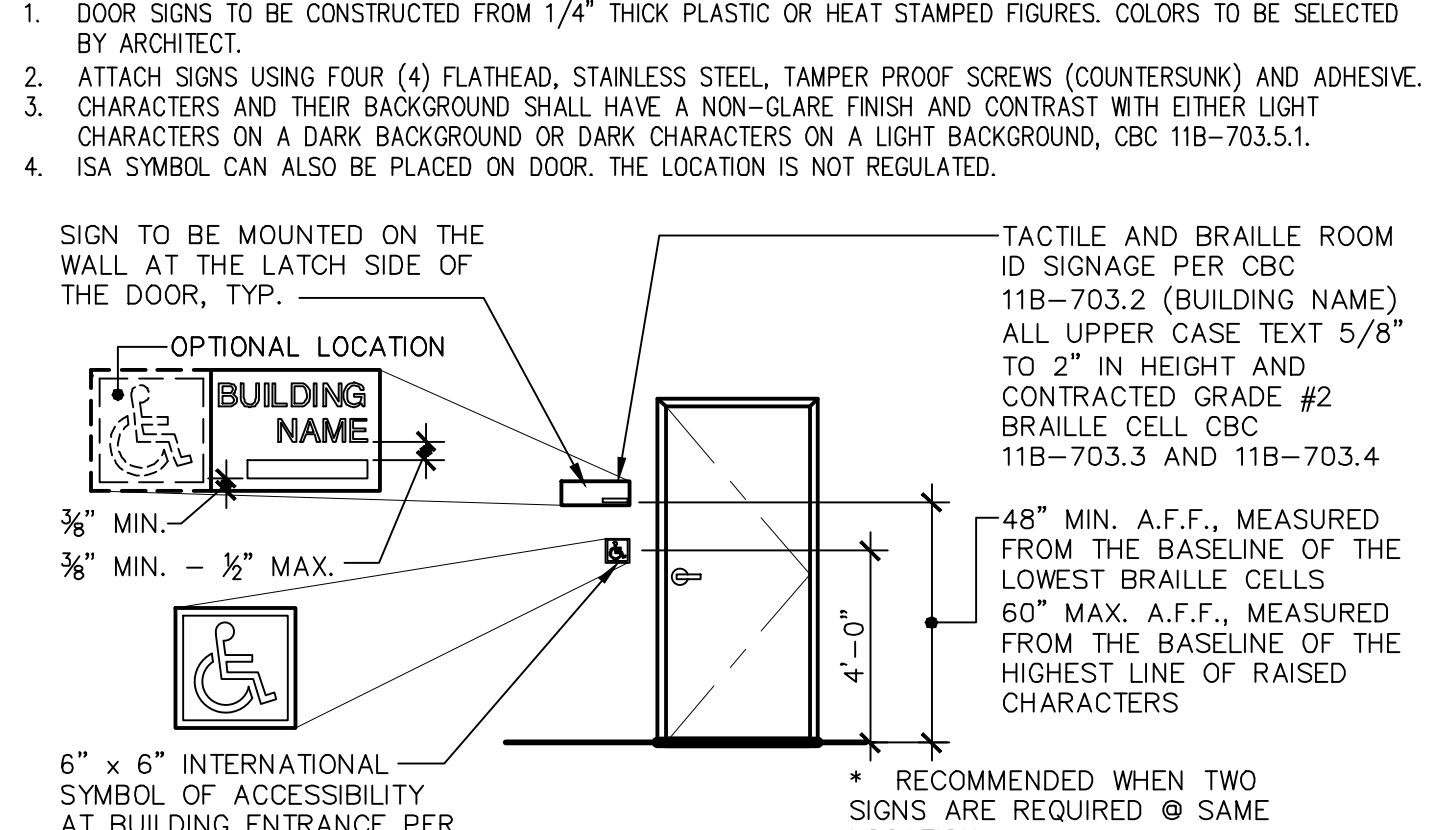


- NOTES:**
1. NO SHARP OR ABRASIVE SURFACES SHALL BE PRESENT UNDER LAVATORIES.
 2. ALL PIPES UNDERNEATH LAVATORIES SHALL BE INSULATED TO PROTECT AGAINST CONTACT FROM THE PERSONS USING THE FIXTURE. (REFER TO SPECIFICATIONS)
 3. THE LOWER REFLECTIVE EDGE OF MIRRORS SHALL NOT EXCEED 40 INCHES ABOVE THE FINISHED FLOOR.
 4. ACCEPTABLE FAUCETS SHALL INCLUDE PUSH ELECTRONIC AND LEVER MECHANISM. FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS. SEE PLUMBING DRAWINGS.
 5. ACCESSIBLE FAUCET CONTROLS SHALL BE PUSH TYPE WITH 5 LBS MAX. OPERATING FORCE.

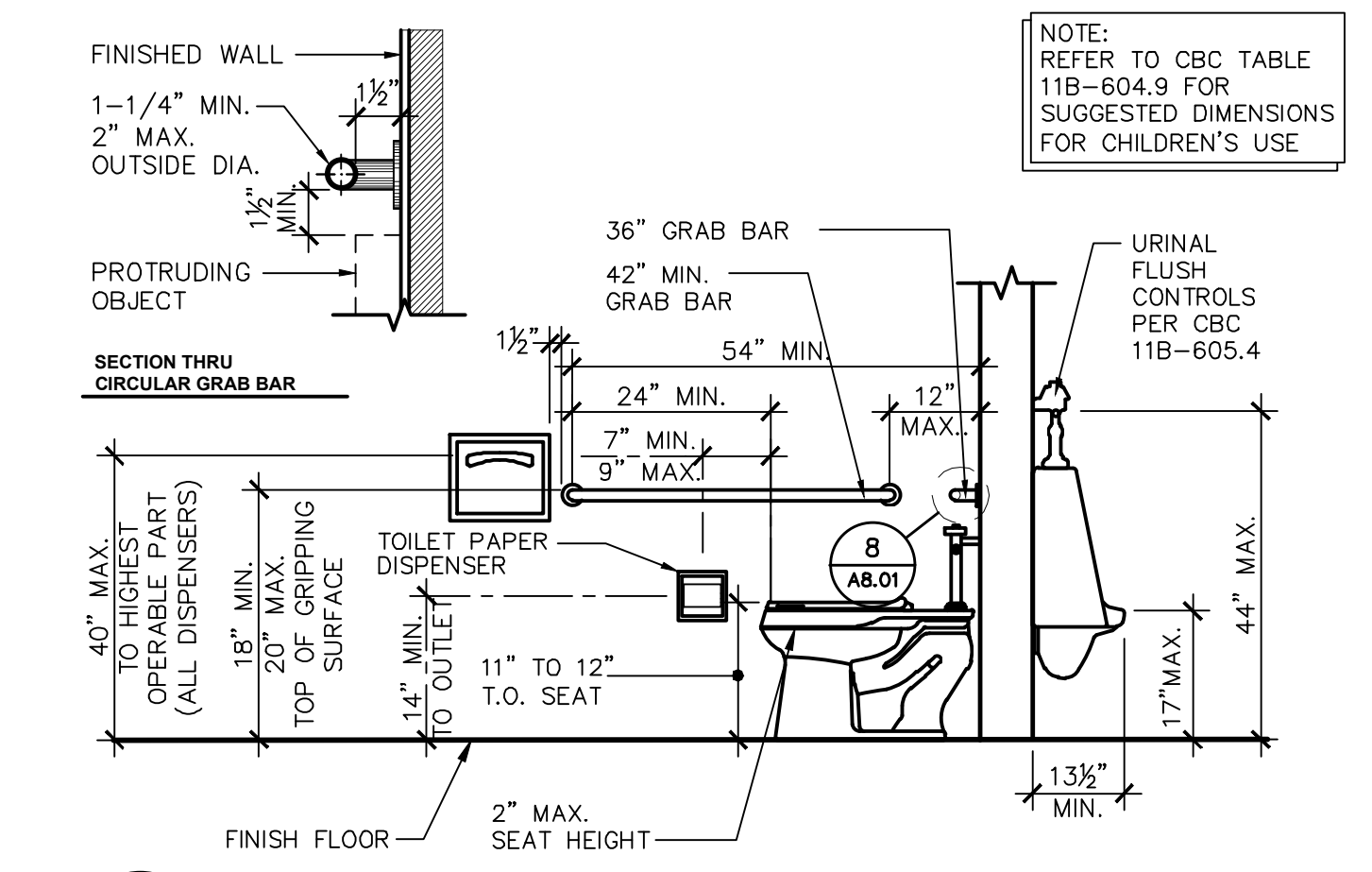
13 KNEE AND TOE CLEARANCE @ ACCESSIBLE LAVATORY
 A8.01 ADA200-10 SCALE: 1/2" = 1'-0"



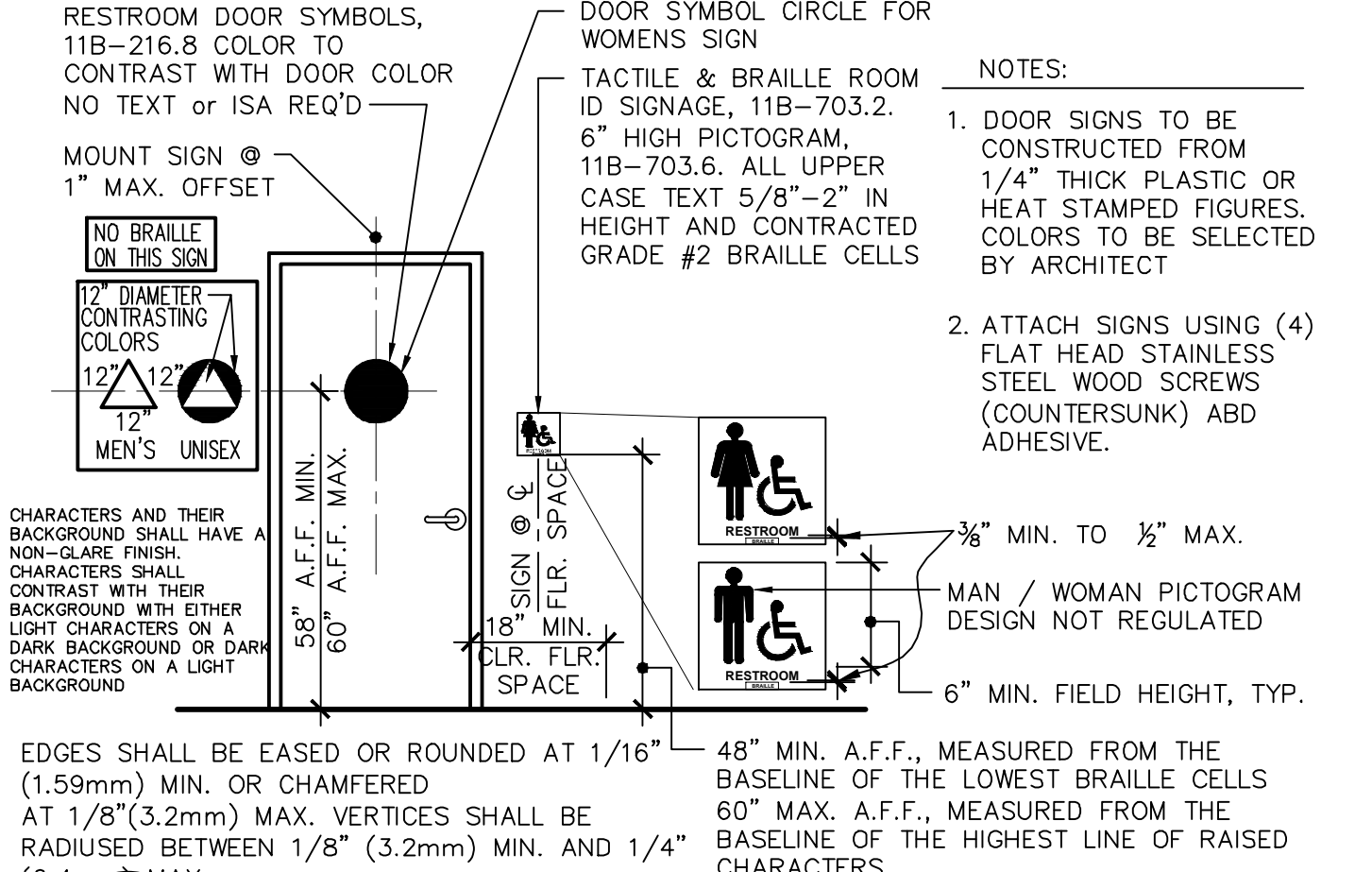
5 ROOM ID SIGNAGE
 A8.01 ADX100-01 SCALE: NO SCALE



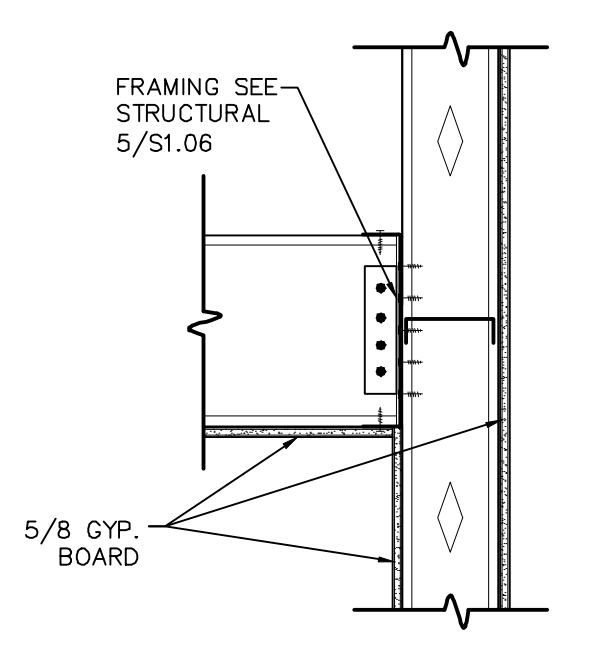
1 BUILDING ENTRANCE/I.S.A. SIGNAGE
 A8.01 ADA100-01 SCALE: 1/4" = 1'-0"



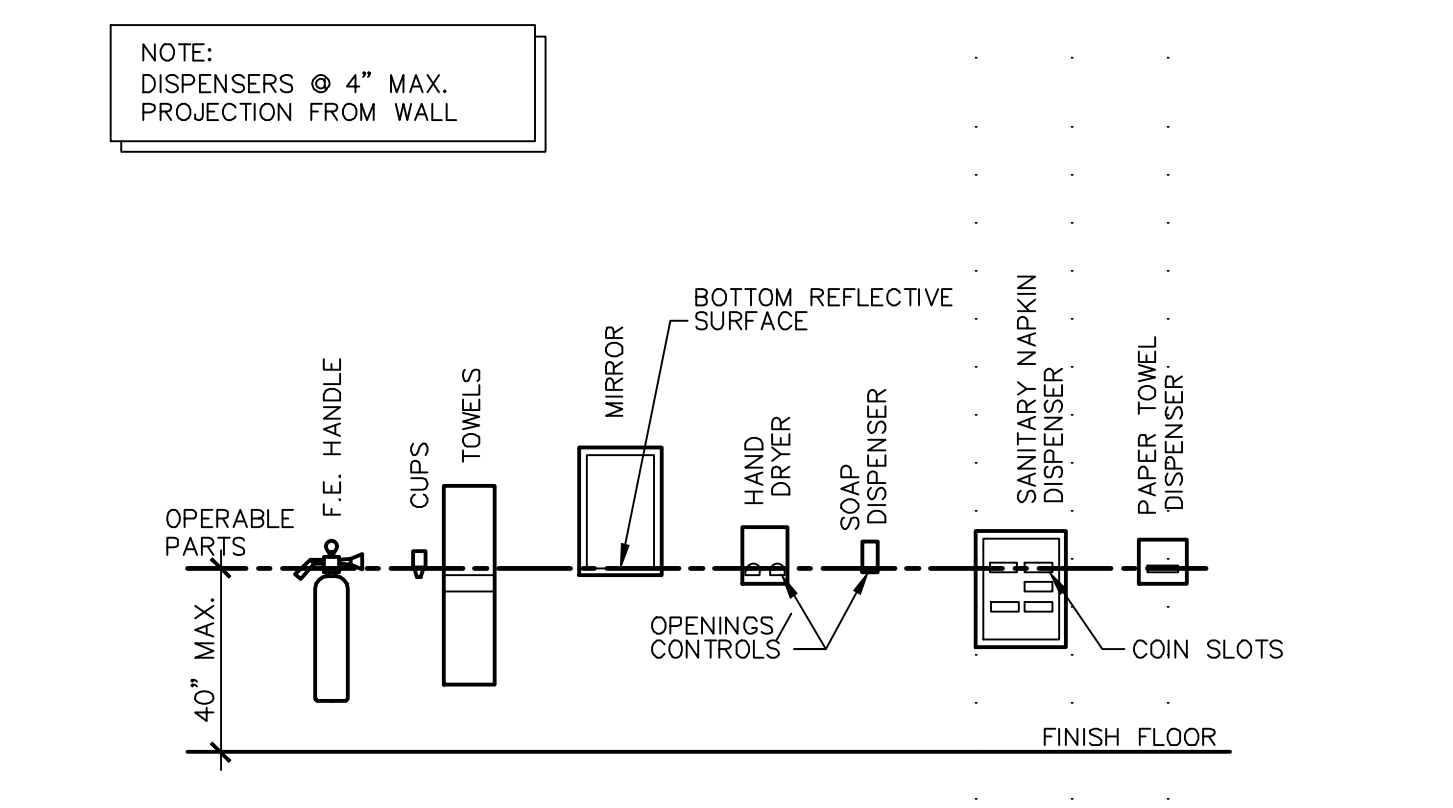
6 ACCESSIBLE FIXTURE & W/C COMPARTMENT MOUNTING HTS
 A8.01 ADA200-12 SCALE: 1/2" = 1'-0"



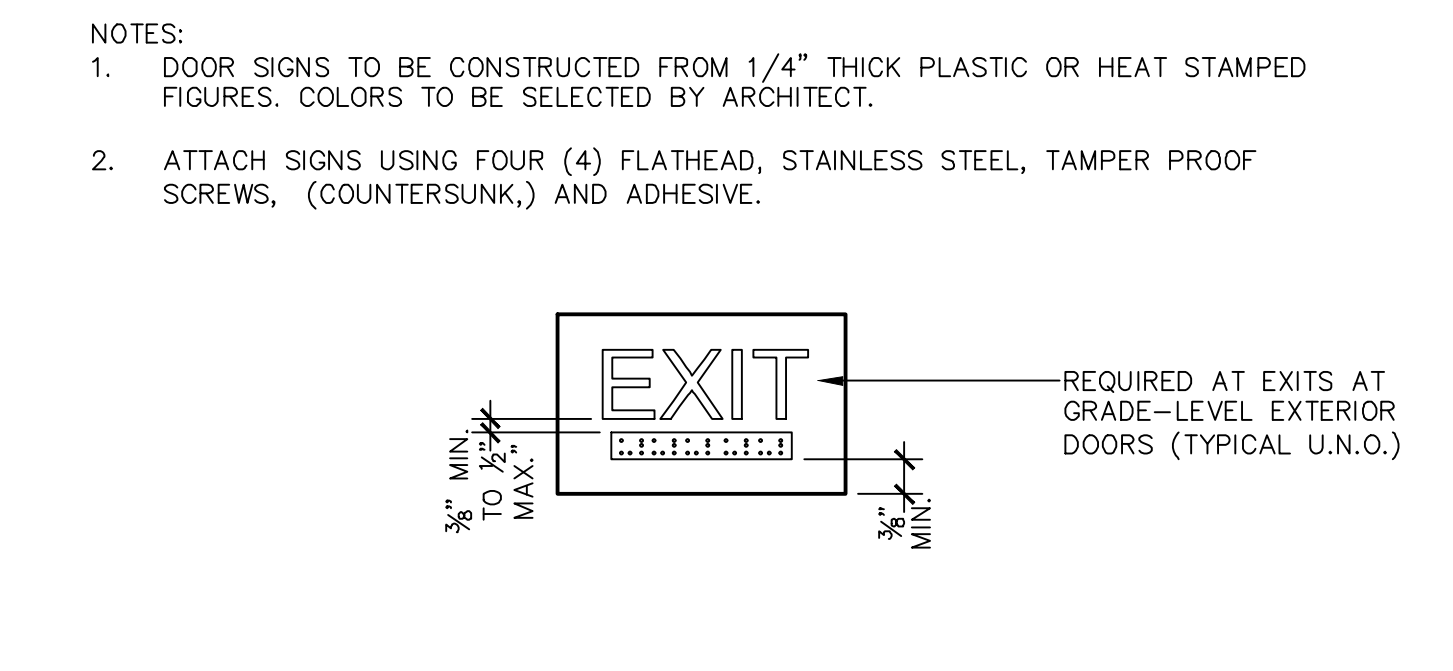
2 ACCESSIBLE RESTROOM SIGNAGE
 A8.01 ADA000-01 SCALE: 1' = 1'-0"



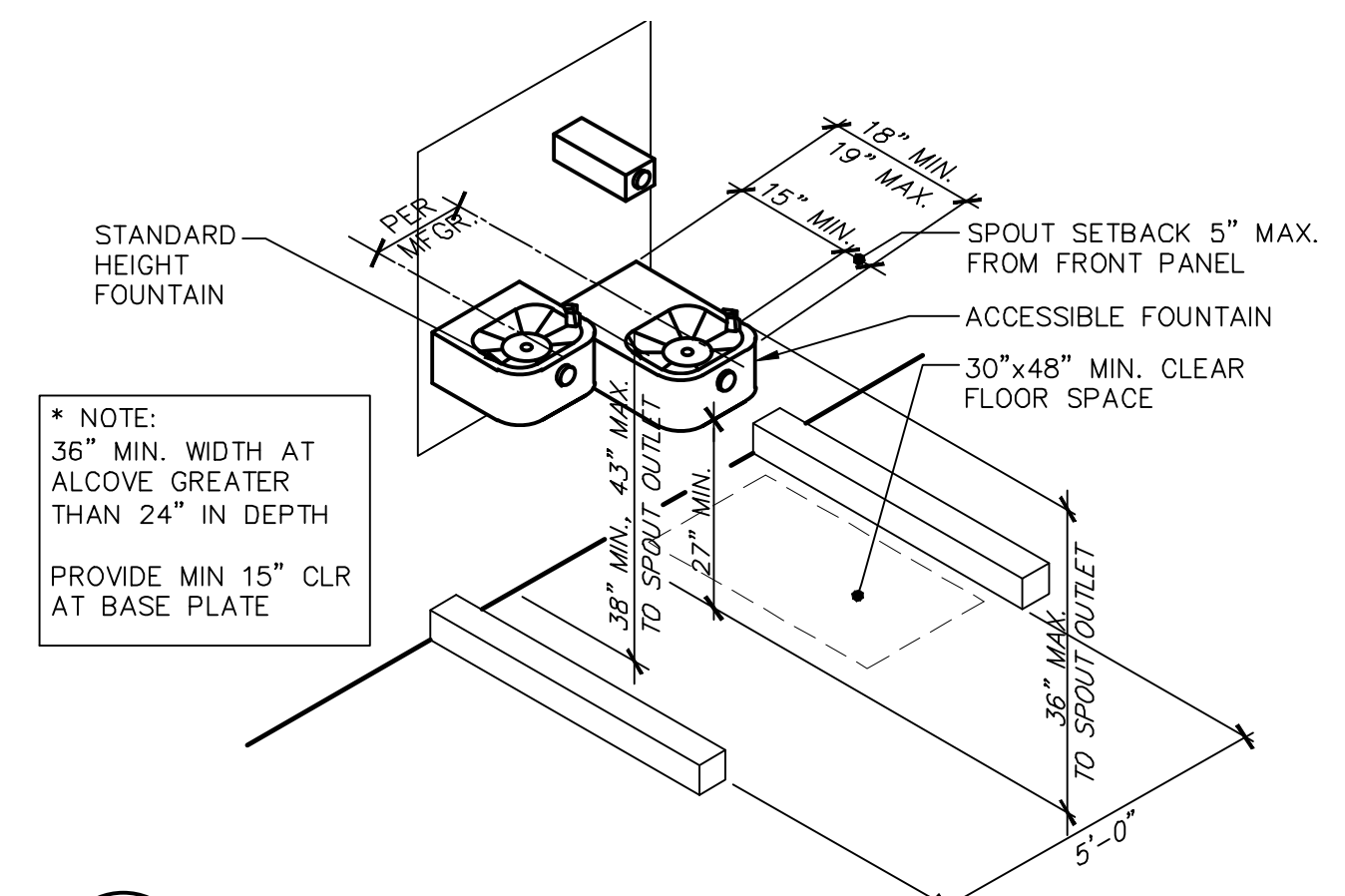
15 TYP. FRAMING DETAIL
 A8.01 ADR134-01 SCALE: 1" = 1'-0"



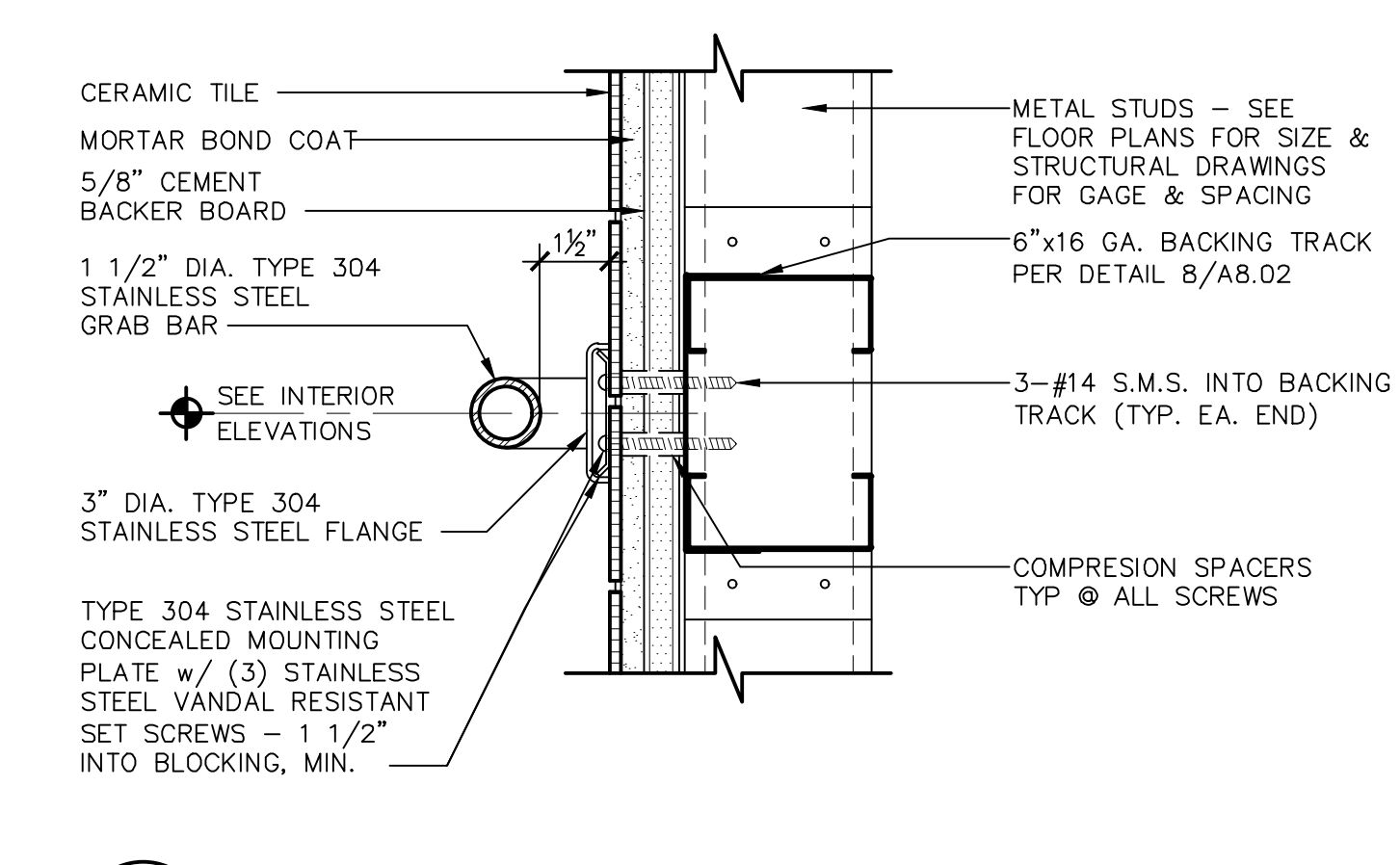
7 ACCESSIBLE MOUNTING HTS FOR TOILET RM ACCESSORIES
 A8.01 ADA200-13 SCALE: 1/2" = 1'-0"



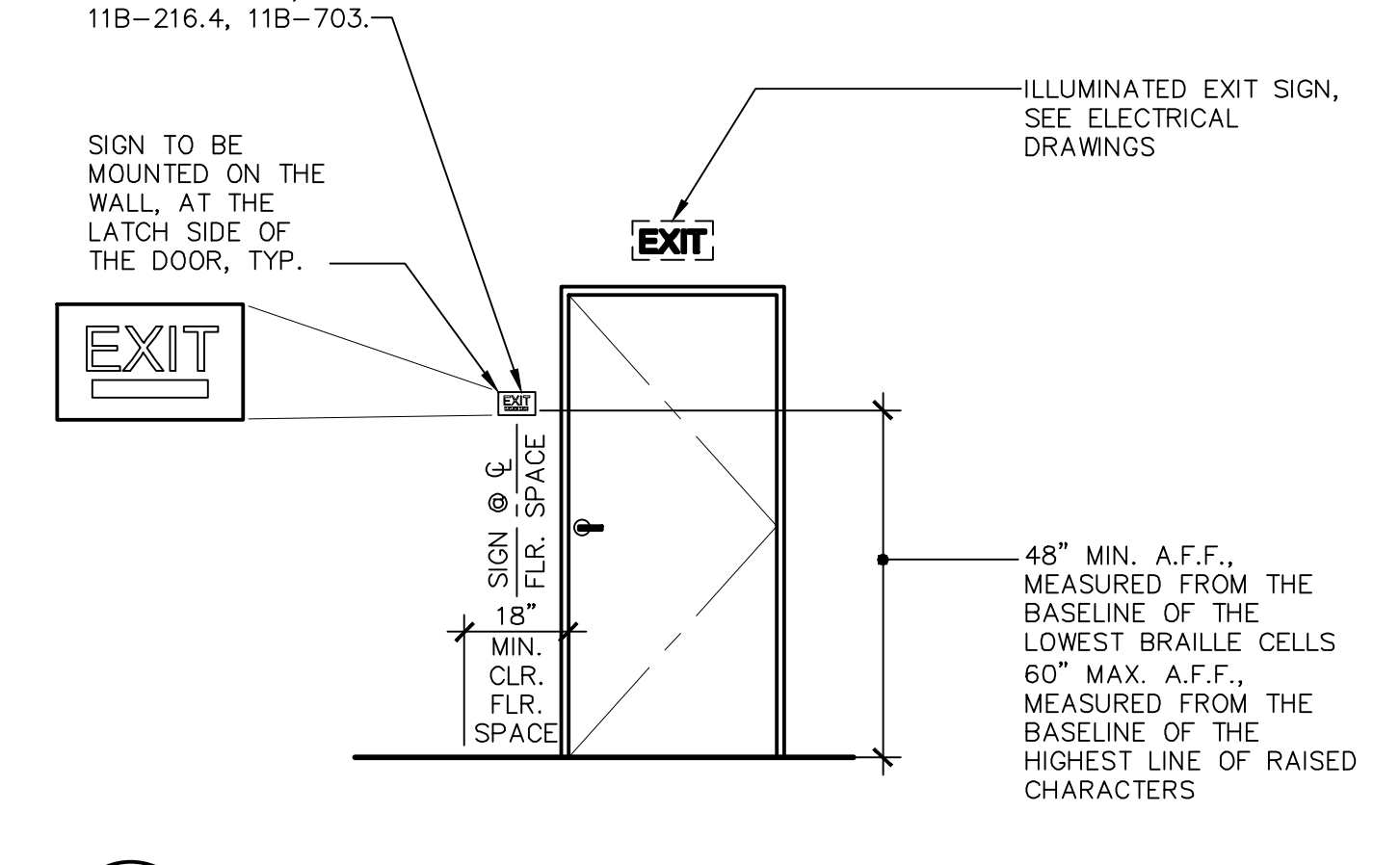
4 TYPICAL EXIT SIGNAGE
 A8.01 ADX200-01 SCALE: 3/8" = 1'-0"



12 HI-LOW DRINKING FOUNTAIN
 A8.01 ADA000-12 SCALE: 1' = 1'-0"




8 GRAB BAR ANCHORAGE
 A8.01 ADM236-01 SCALE: 3" = 1'-0"



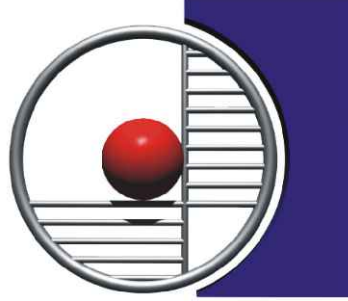
8 ACCESSIBLE MOUNTING HTS FOR TOILET RM ACCESSORIES
 A8.01 ADA200-13 SCALE: 1/2" = 1'-0"

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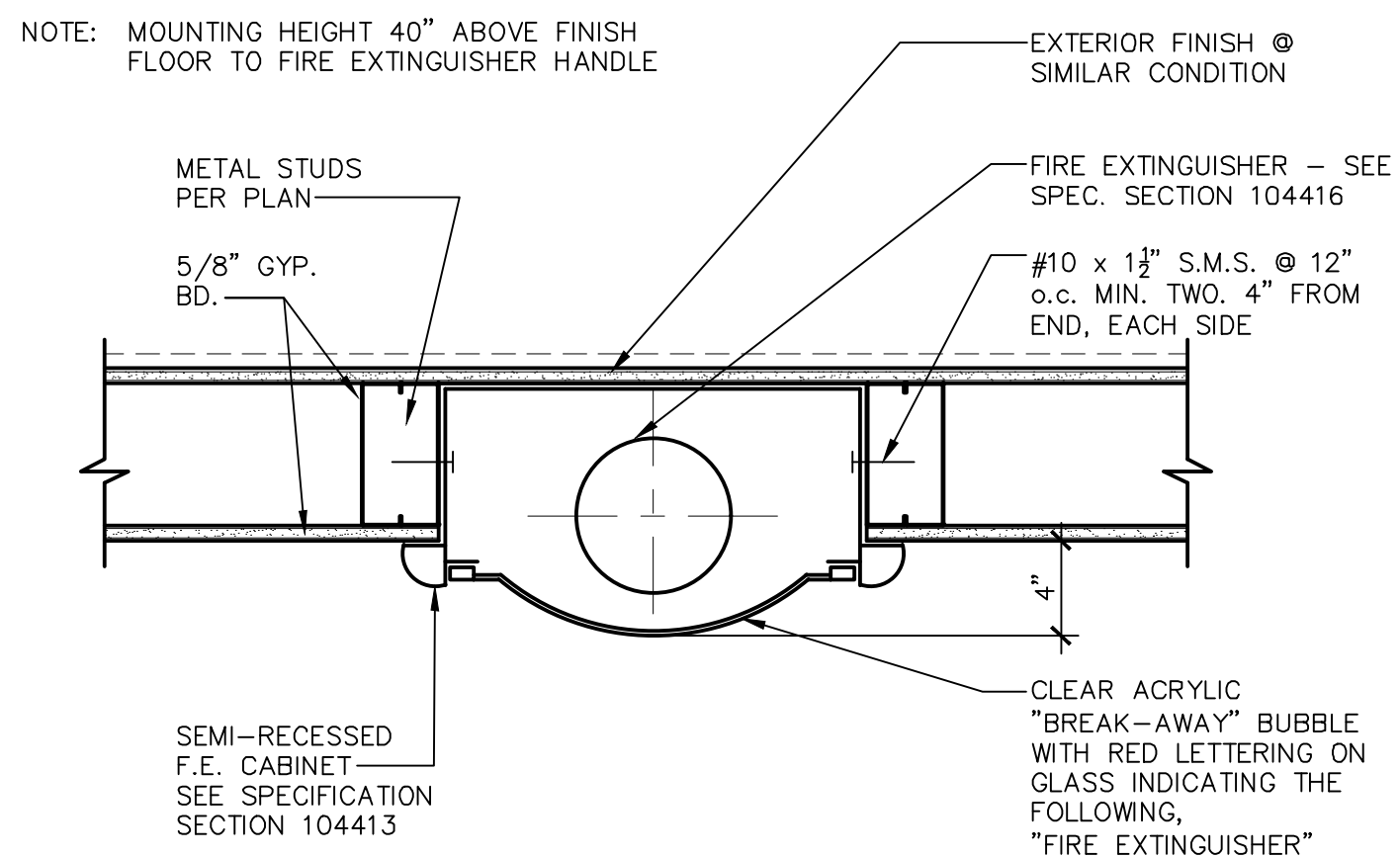
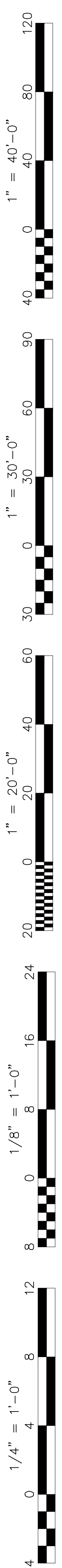

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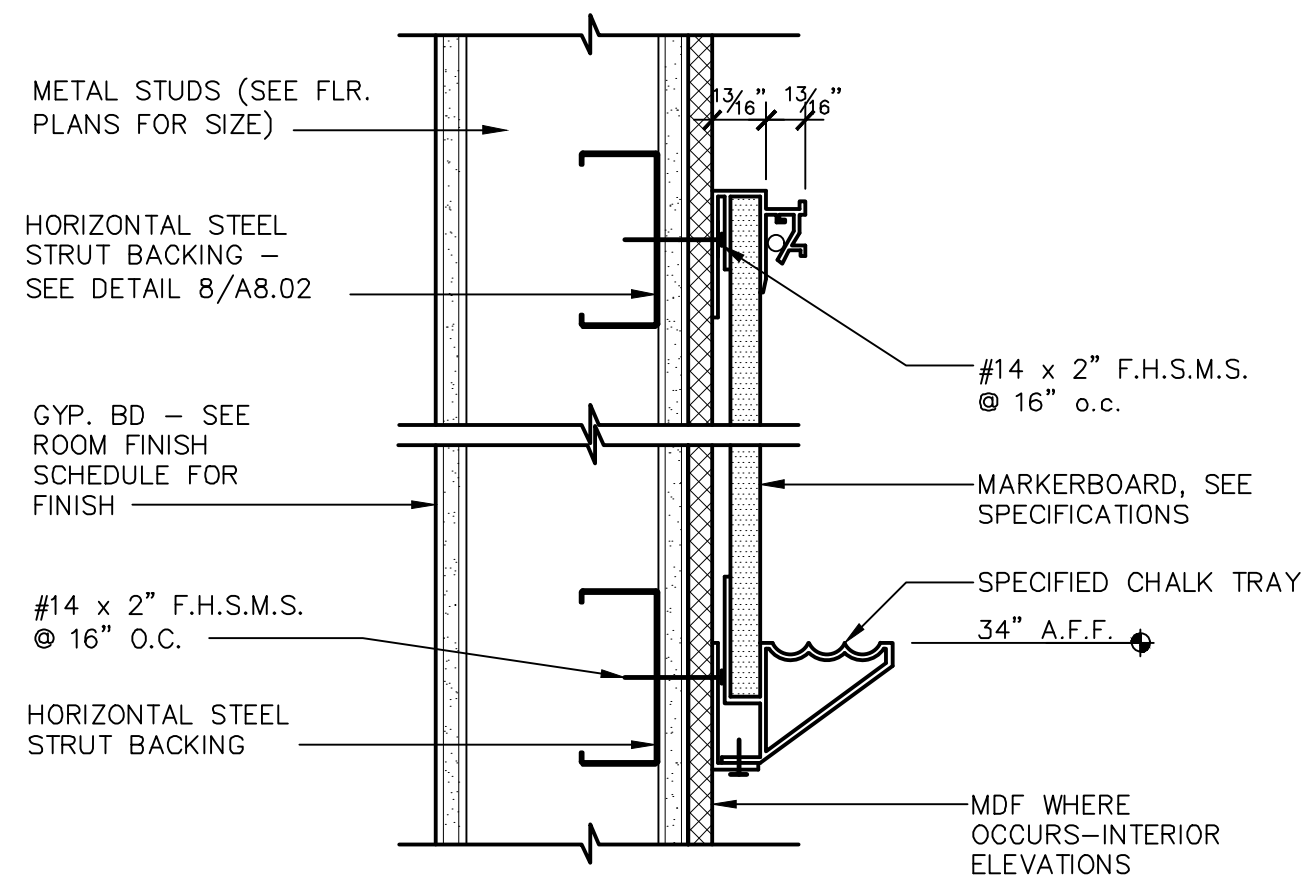
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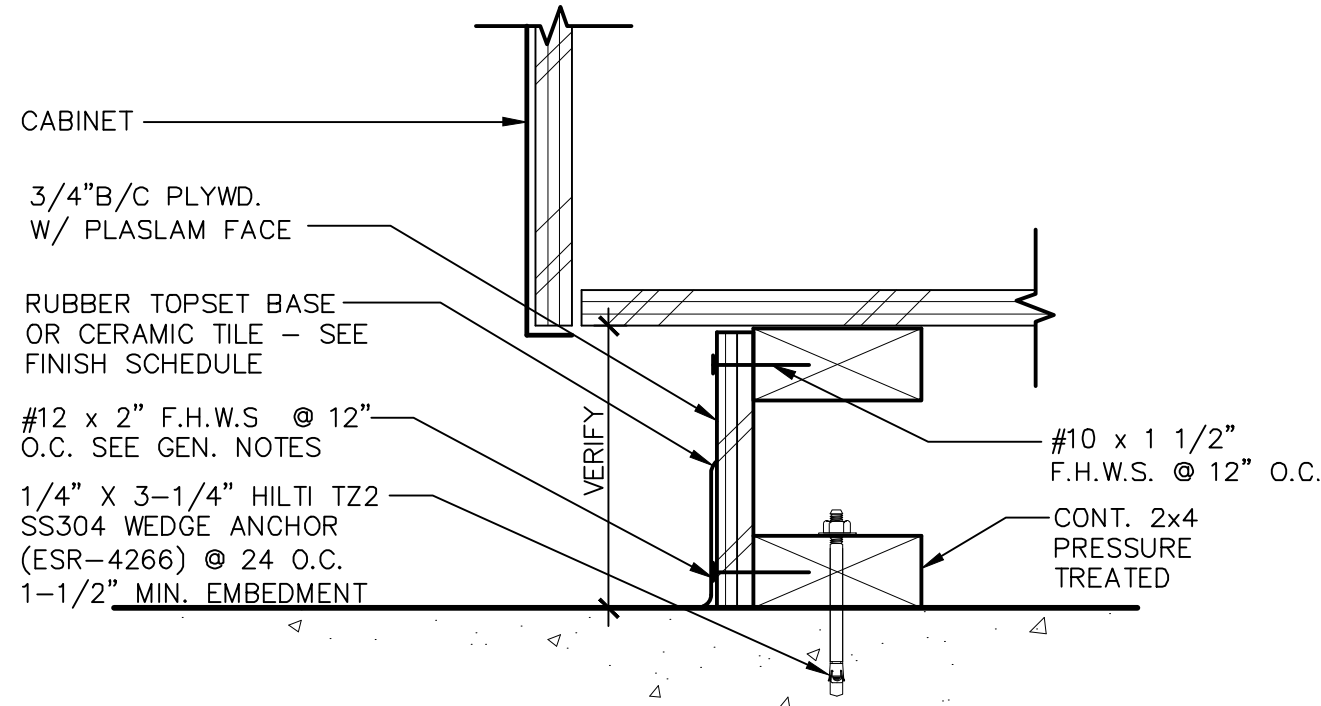
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 Sheet No.: **A8.01**



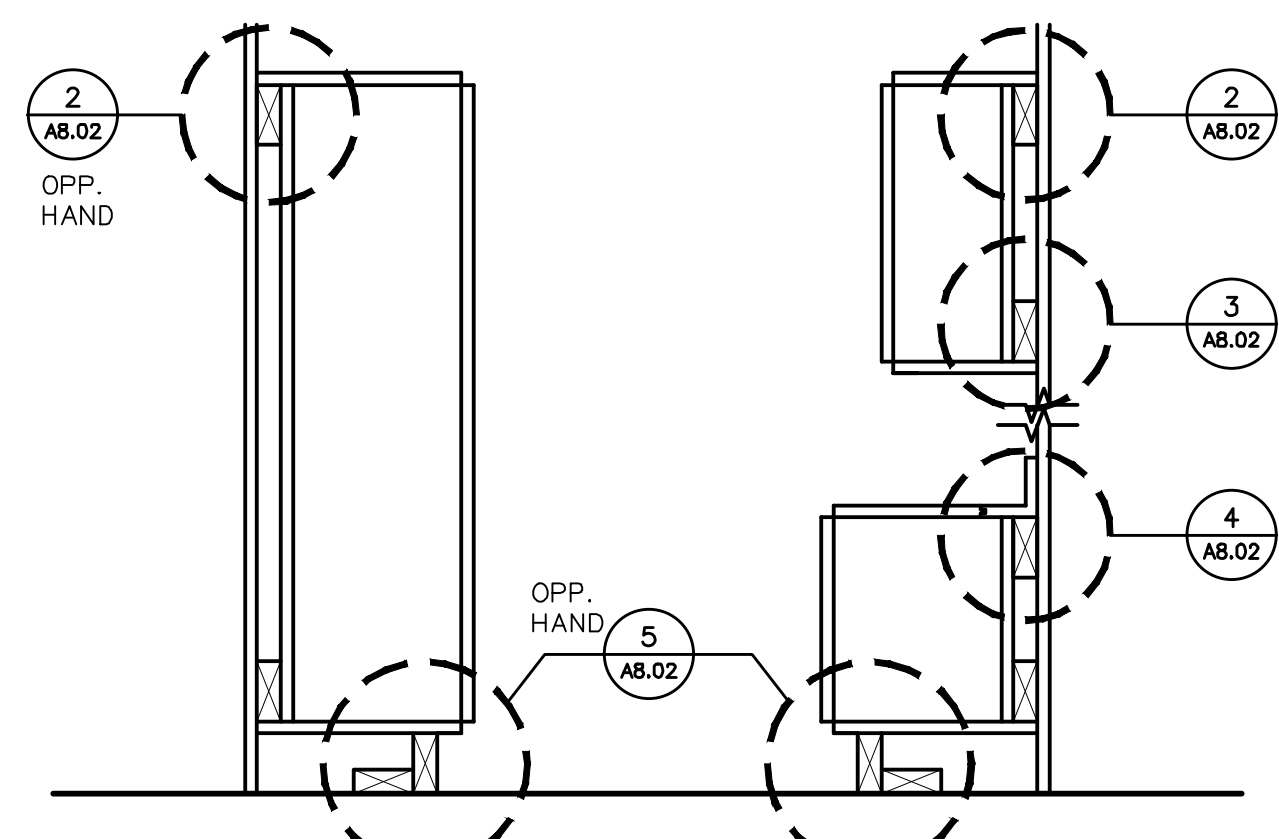
13 SEMI-RECESSED F.E. CABINET @ NON-RATED WALLS
 A8.02 ADW234-06 SCALE: 1 1/2" = 1'-0"



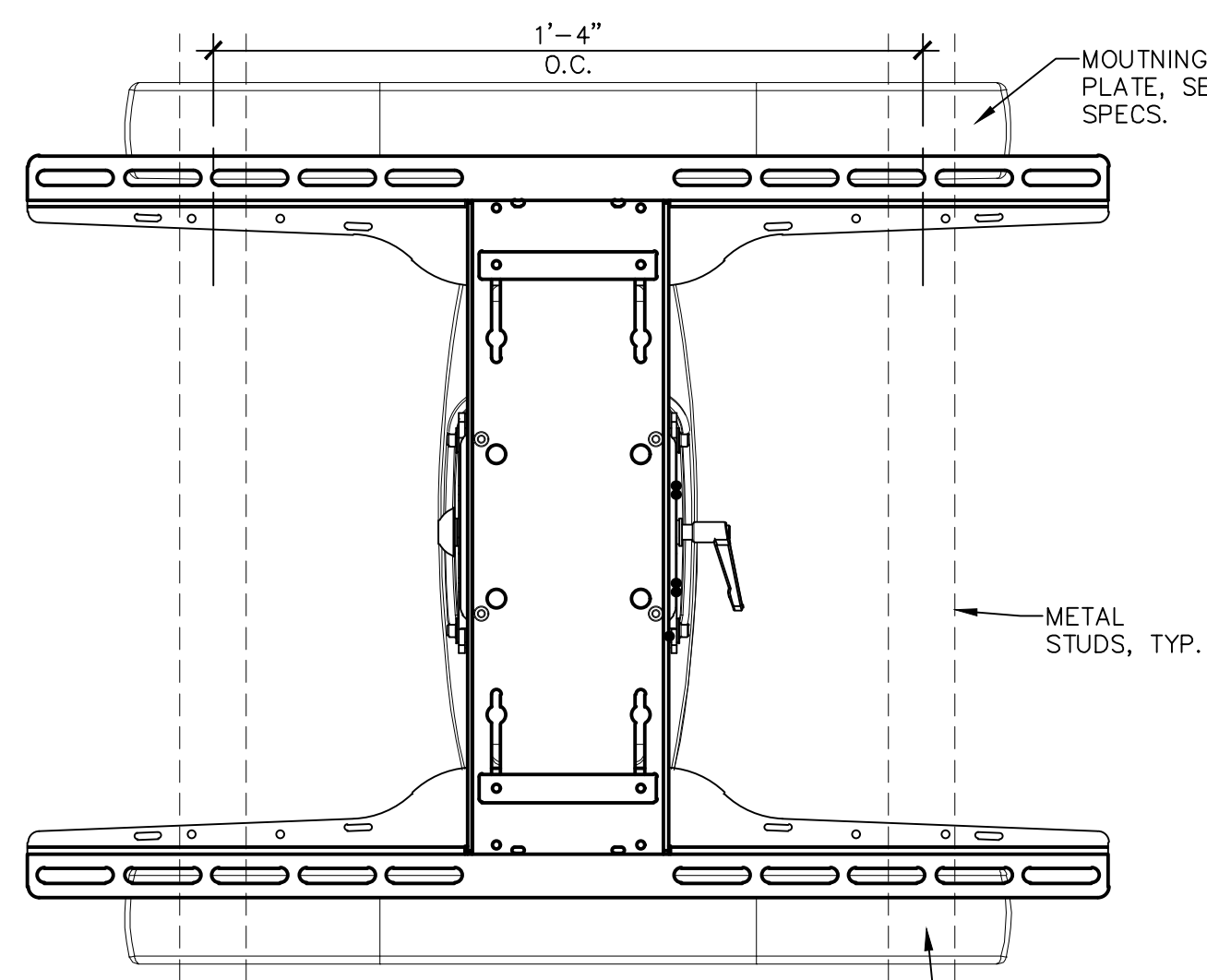
9 MARKERBOARD ANCHORAGE
 A8.02 ADI234-01 SCALE: 3" = 1'-0"



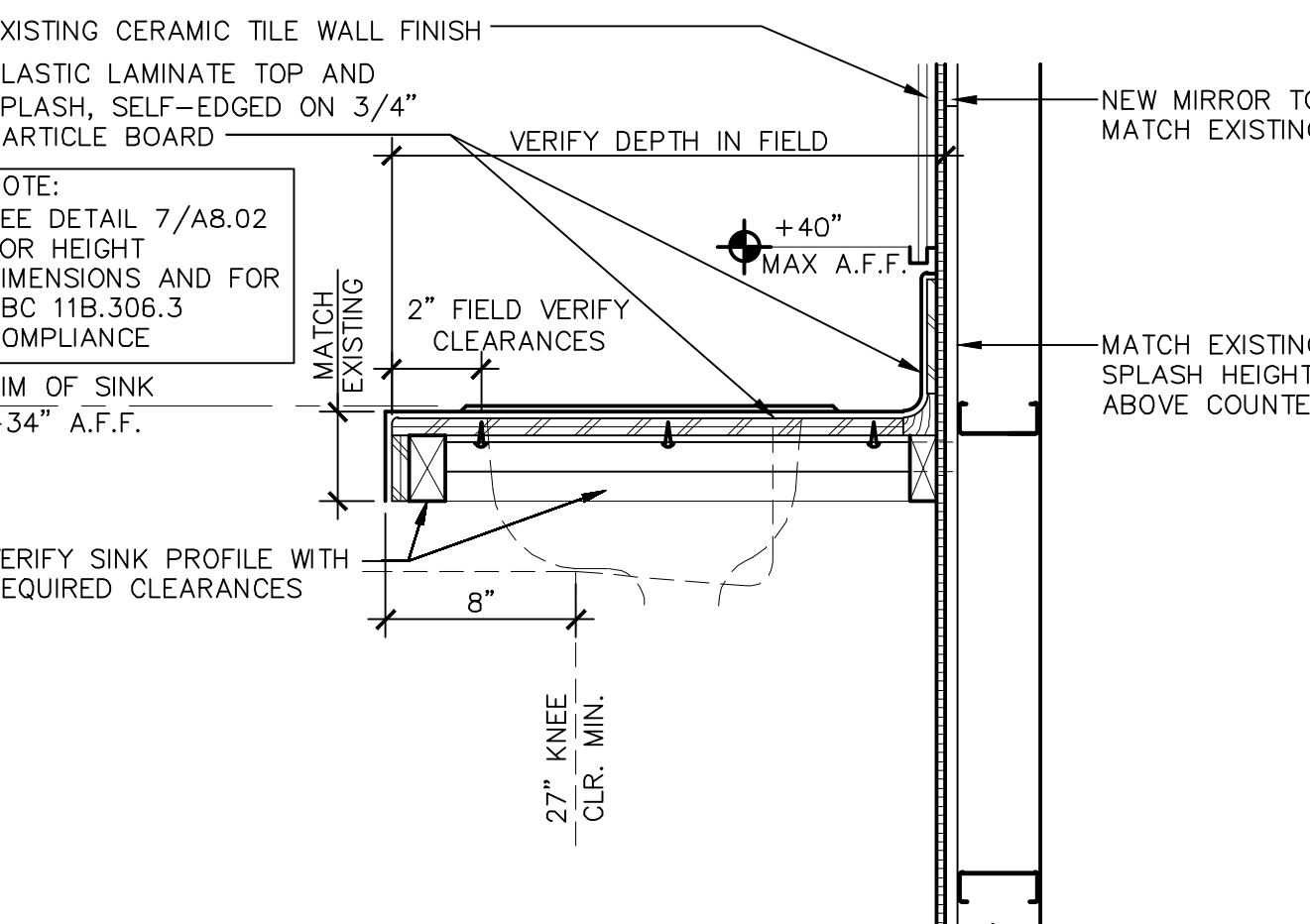
5 BASE ANCHORAGE
 A8.02 ADI244-06 SCALE: 3" = 1'-0"



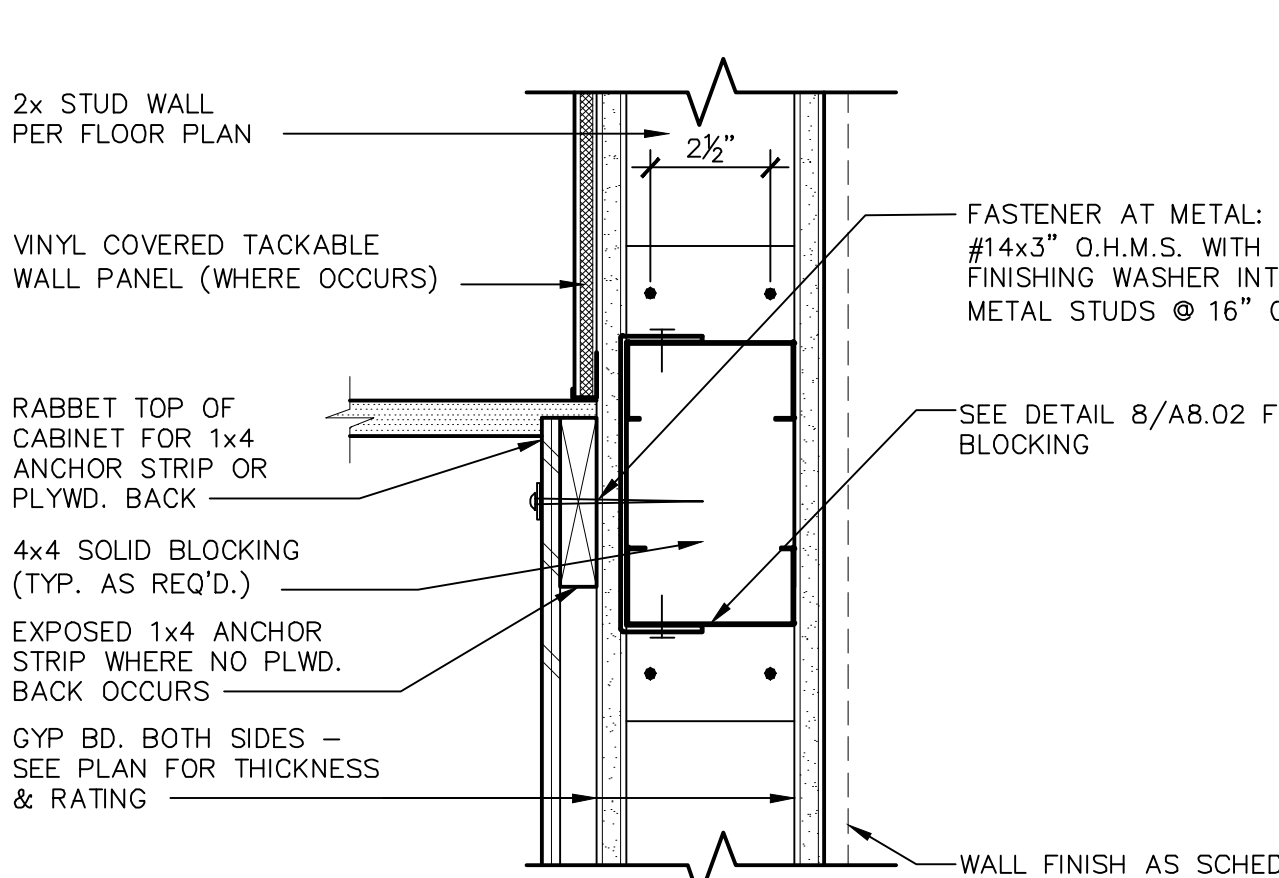
1 CABINET SECTIONS
 A8.02 ADI244-02 SCALE: 3" = 1'-0"



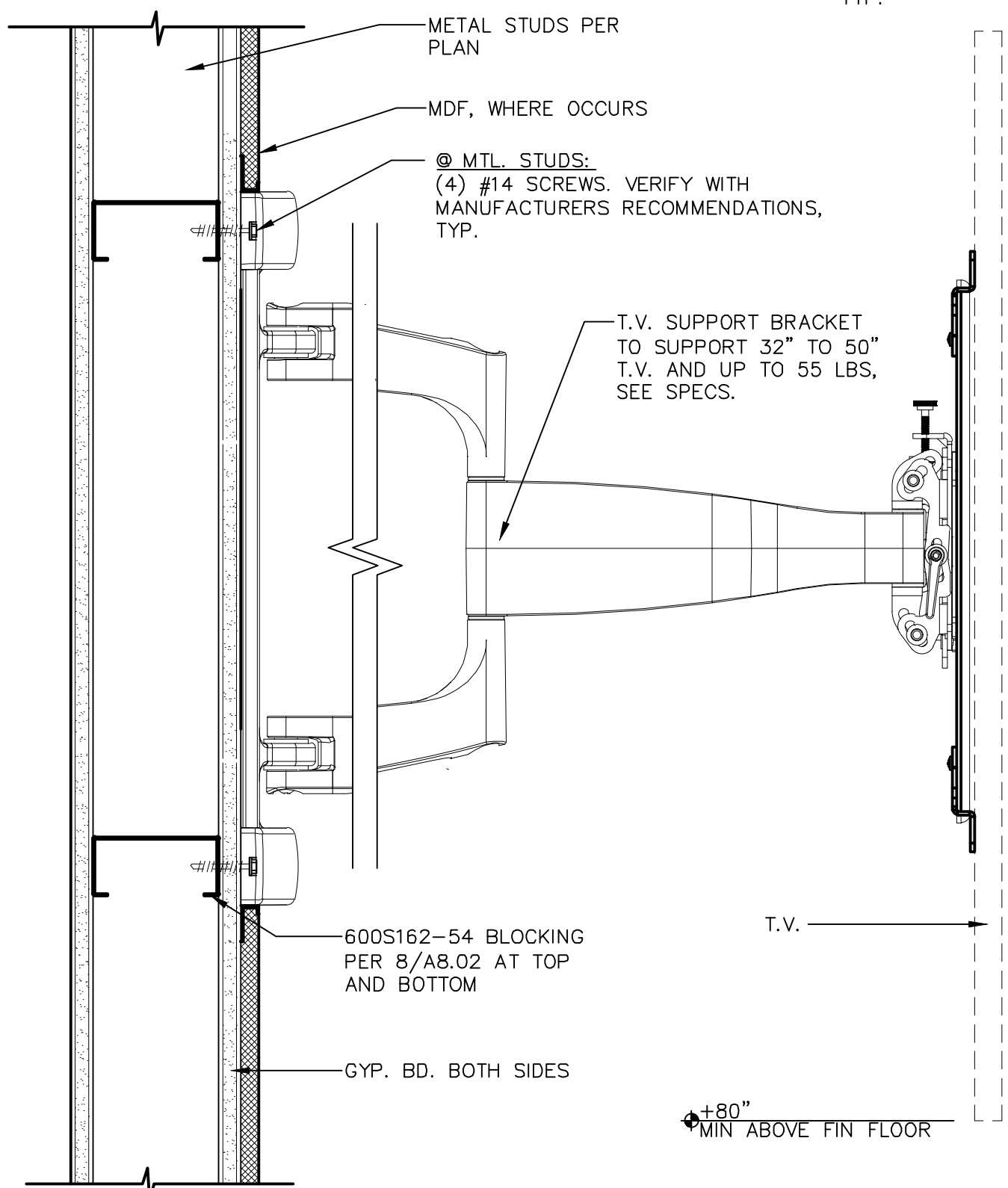
ELEVATION AT WALL BRACKET



6 PLASTIC LAMINATE COUNTERTOP
 A8.02 ADI230-05 SCALE: 1 1/2" = 1'-0"

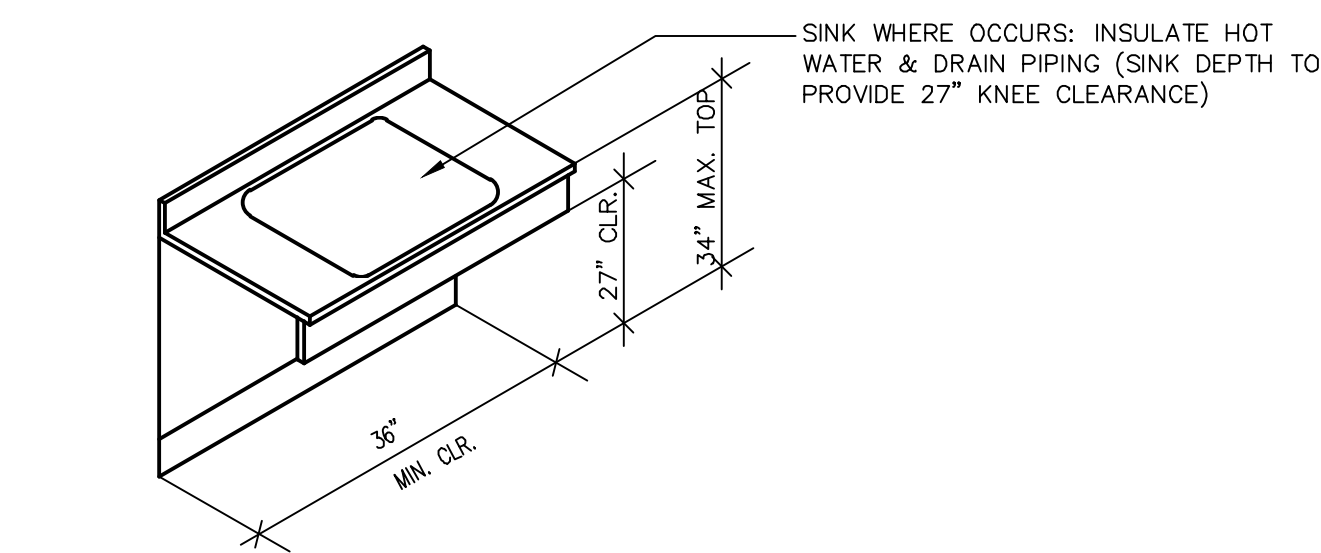


2 WALL CABINET TOP ANCHOR DETAIL
 A8.02 ADI244-03 SCALE: 3" = 1'-0"

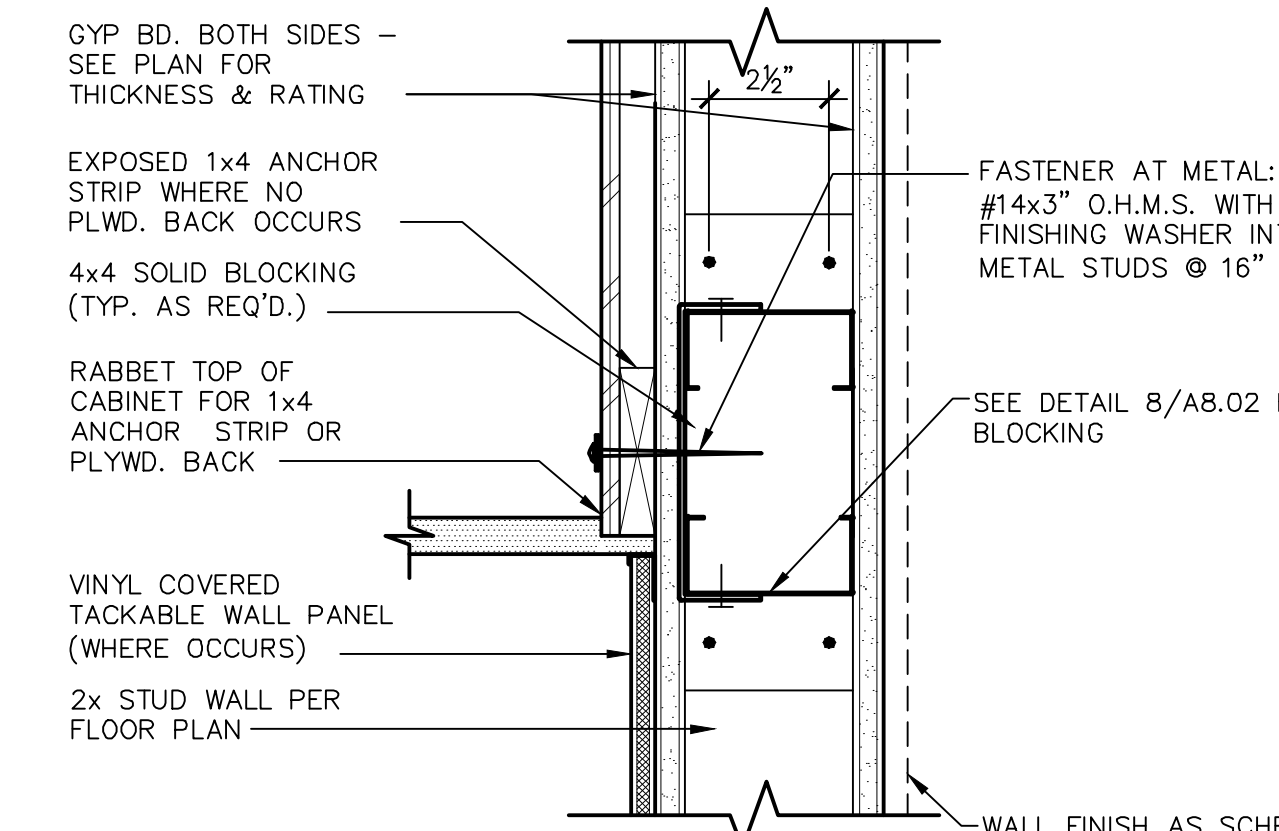


SECTION VIEW

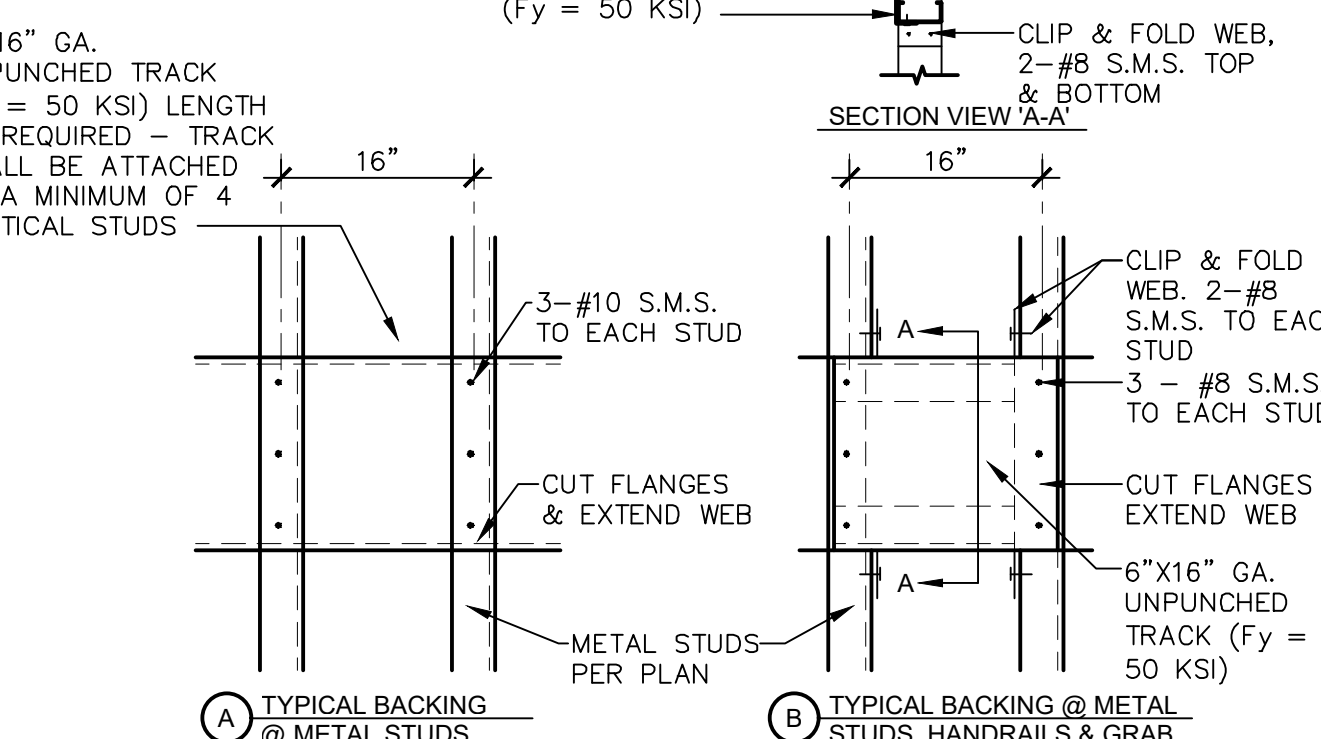
12 FLAT PANEL T.V. SUPPORT
 A8.02 ADM234-01 SCALE: 3" = 1'-0"



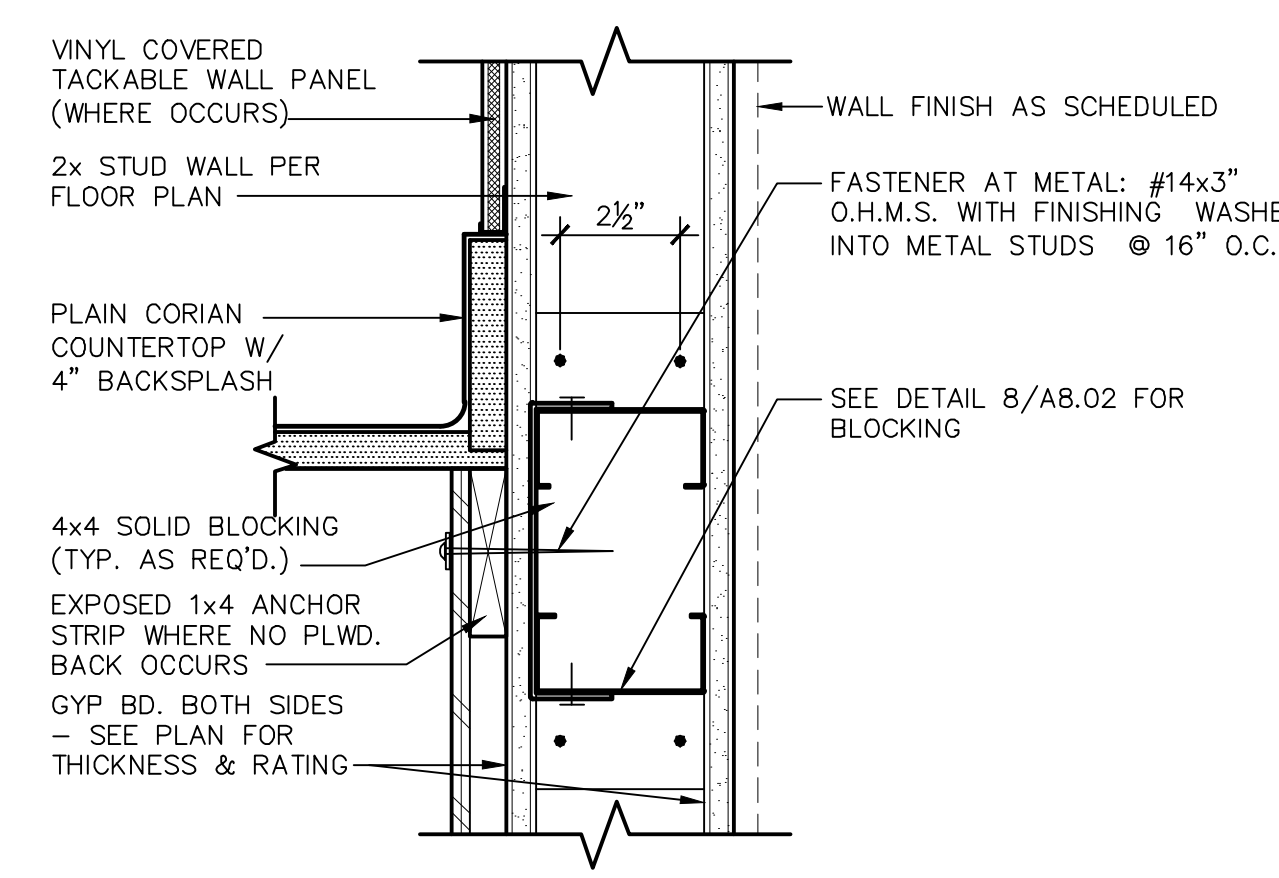
7 ACCESSIBLE STATION OR SINK COUNTERS
 A8.02 ADI200-20 SCALE: 1' = 1'-0"



3 WALL CABINET BOTTOM ANCHOR DETAIL
 A8.02 ADI244-04 SCALE: 3" = 1'-0"




8 SOLID BLOCKING FRAMING ELEV. @ METAL STUDS
 A8.02 ADB230-02 SCALE: 3/4" = 1'-0"

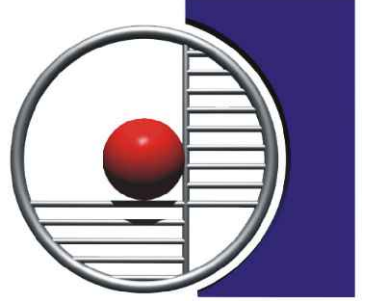



4 BASE CABINET COUNTER TOP DETAIL
 A8.02 ADI244-05 SCALE: 3" = 1'-0"

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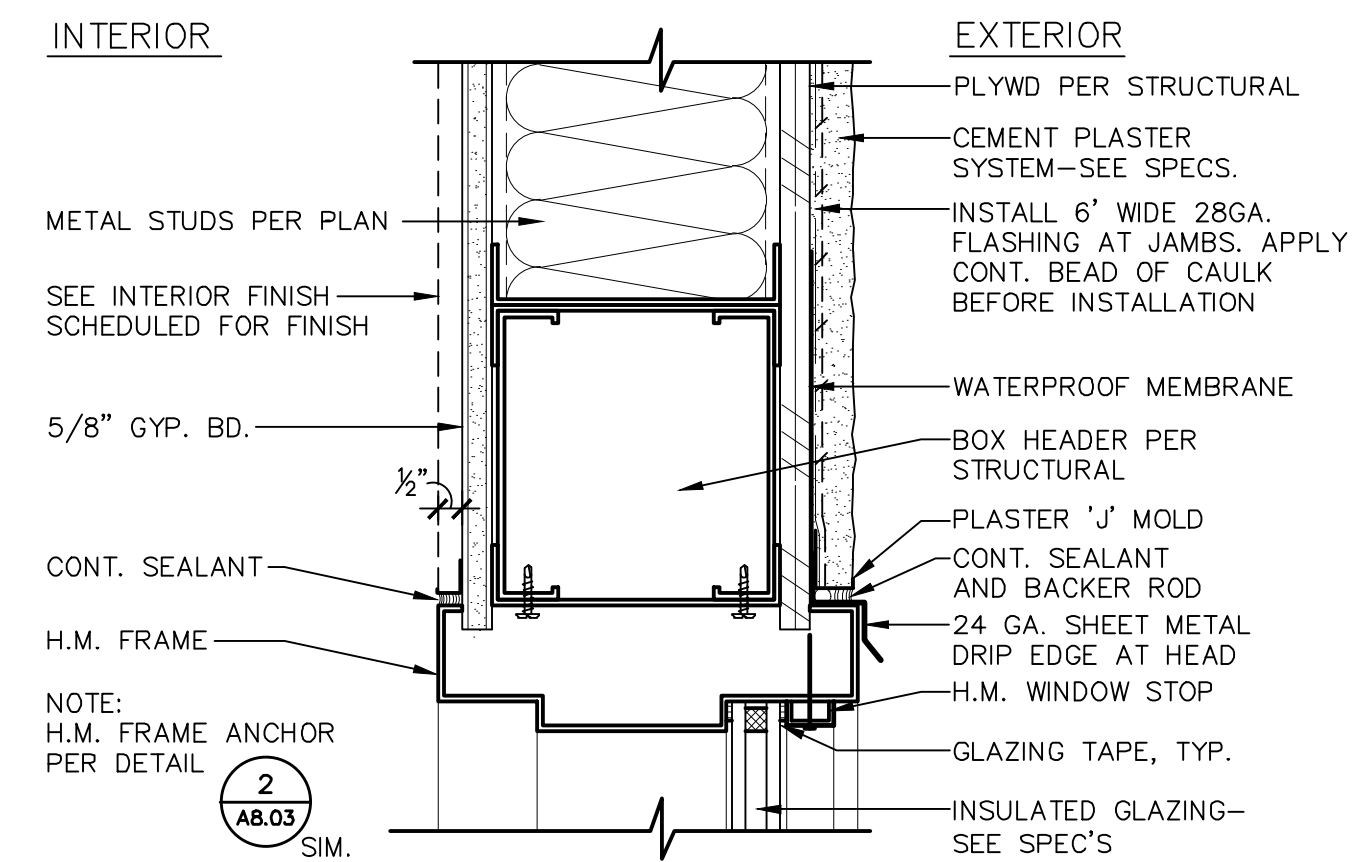
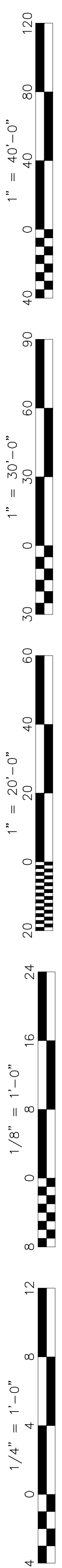
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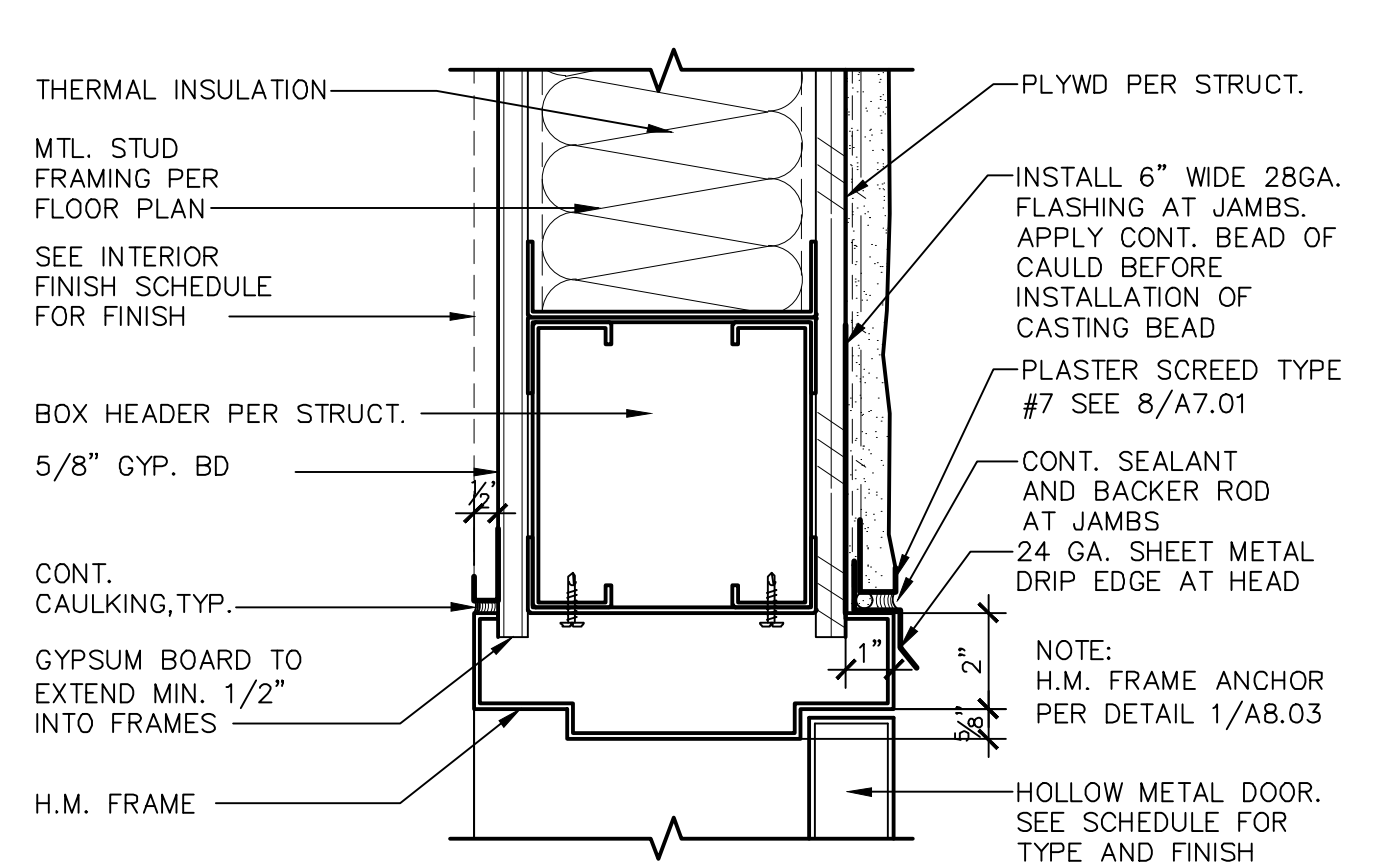
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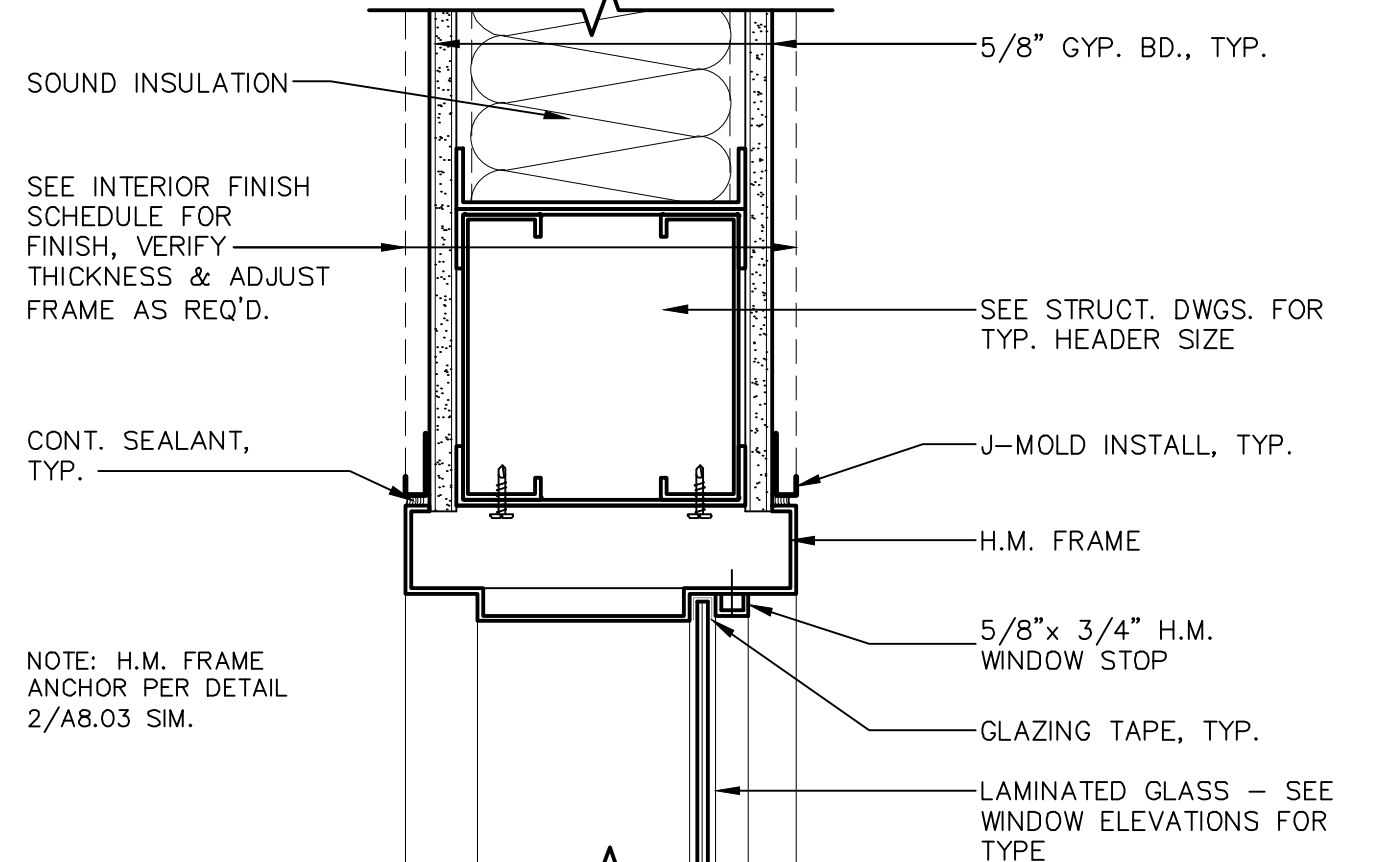
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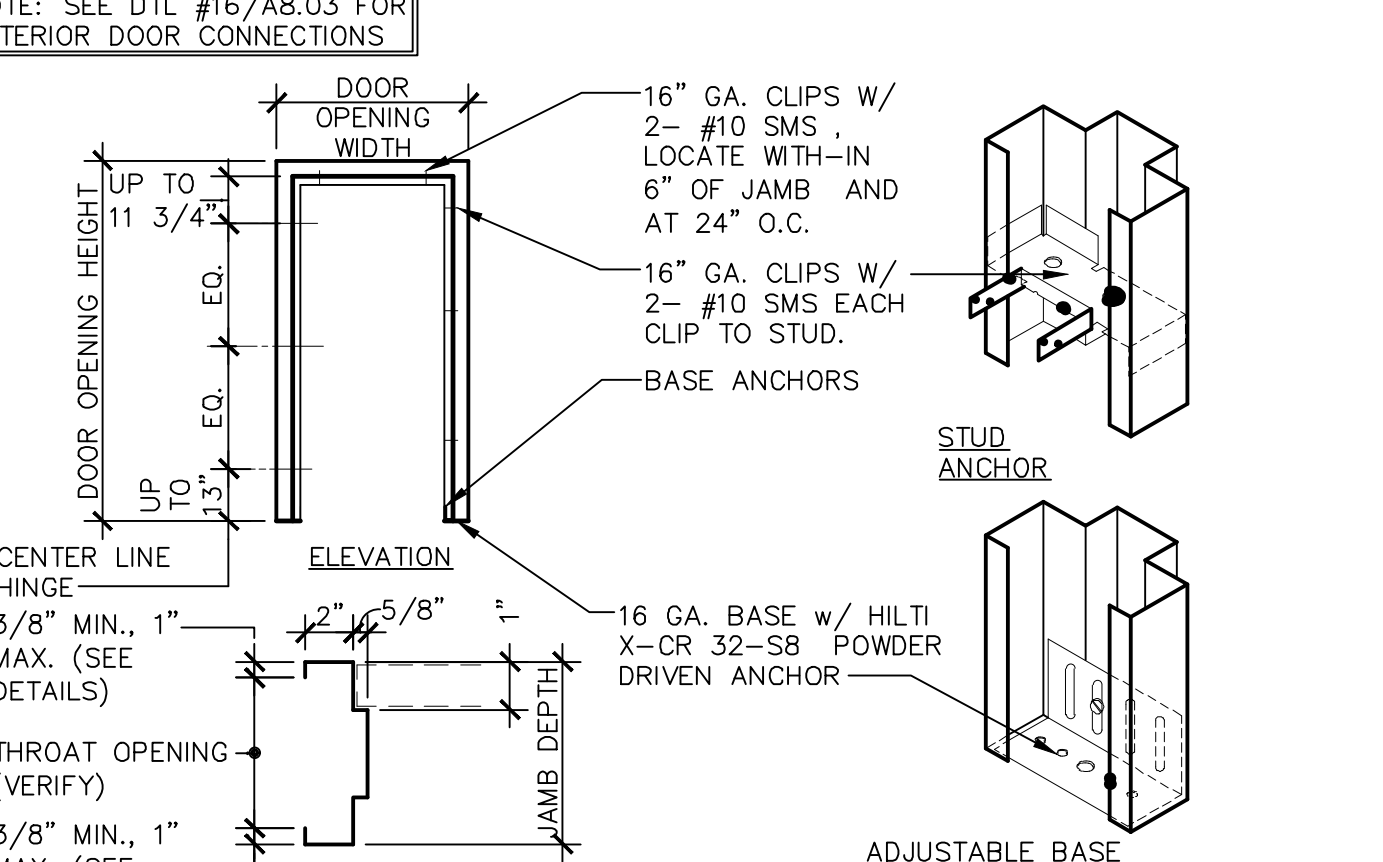
13 HOLLOW METAL WINDOW HEAD AT EXTERIOR WALL
A8.03 ADG131-01 SCALE: 3" = 1'-0"



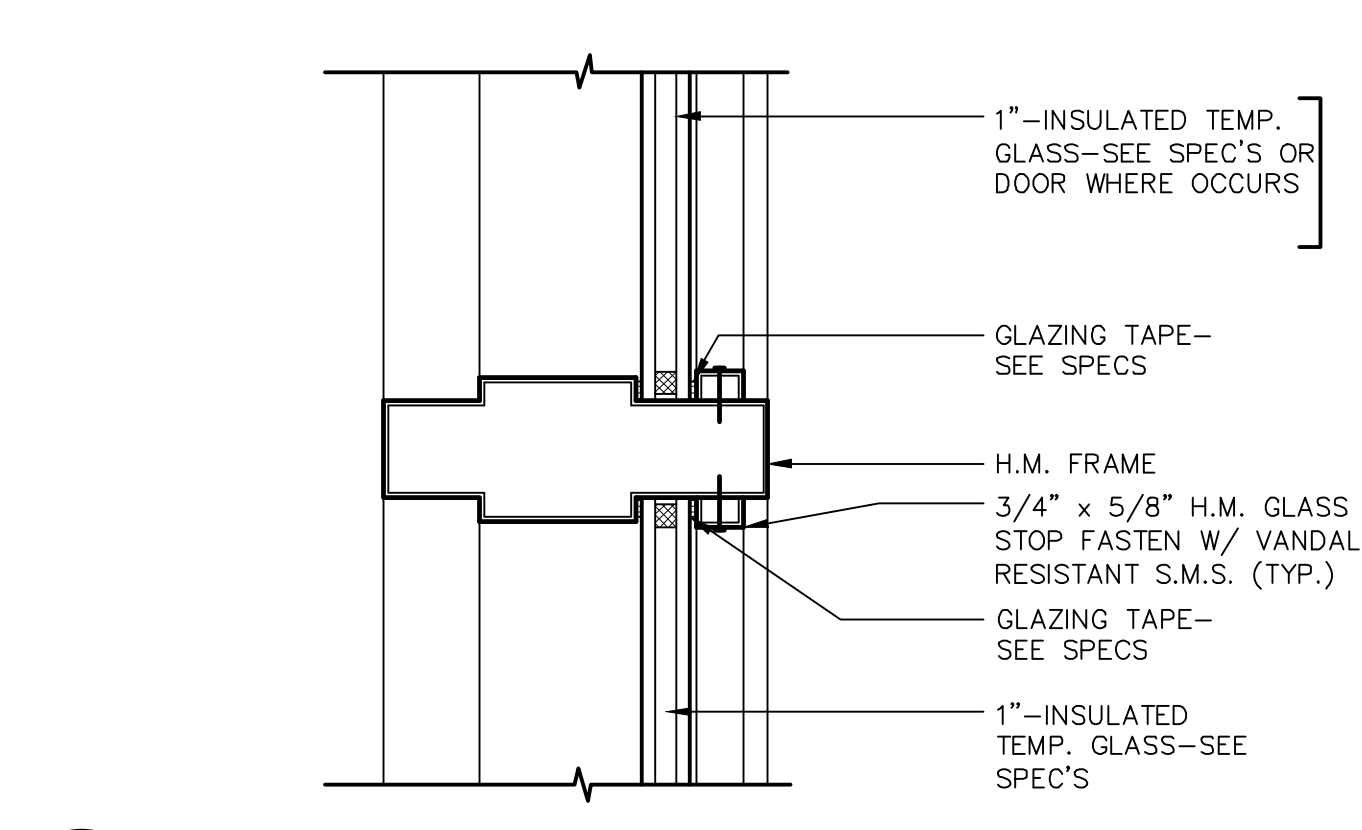
9 EXTERIOR HOLLOW METAL DOOR HEAD
A8.03 ADD131-01 SCALE: 3" = 1'-0"



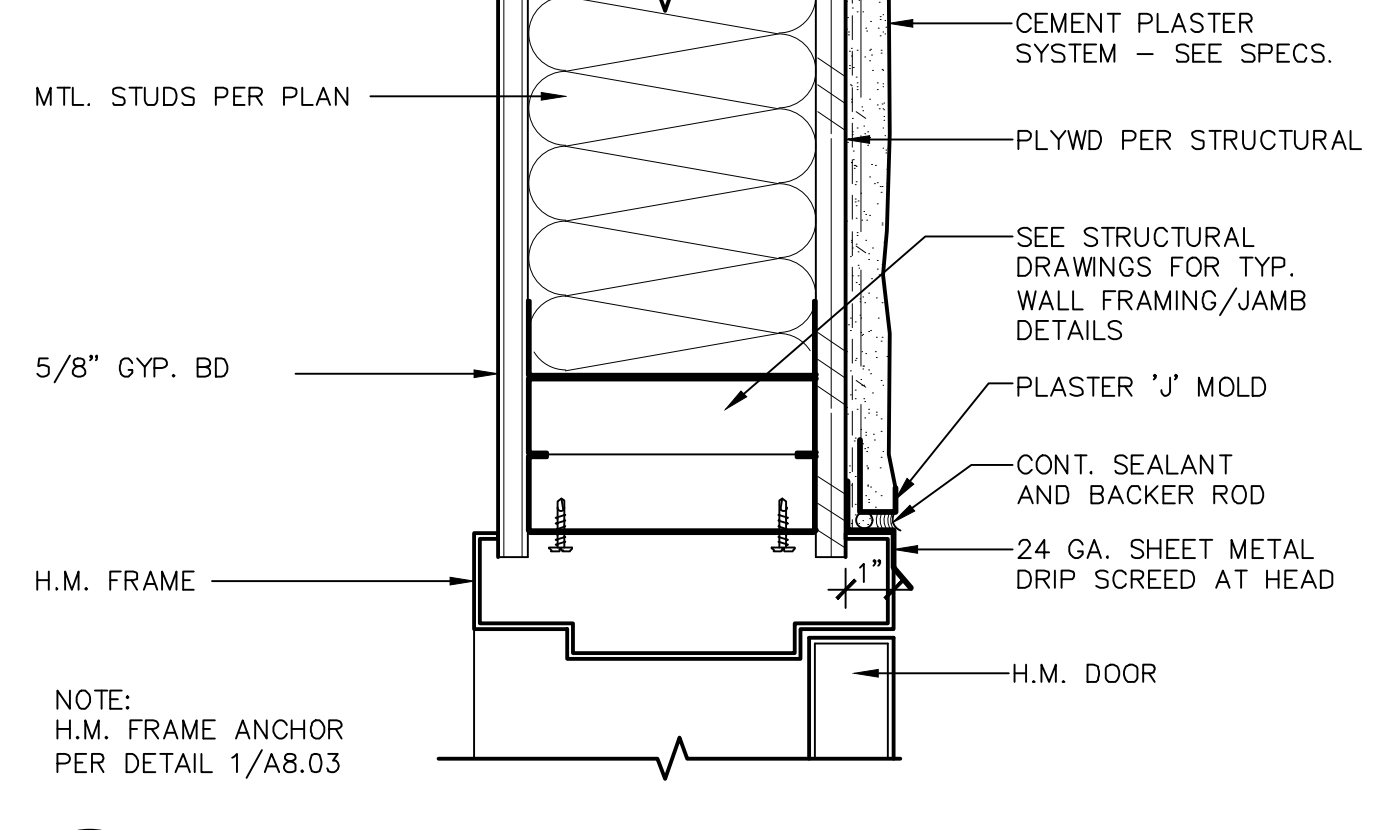
5 INTERIOR HOLLOW METAL WINDOW HEAD
A8.03 ADG230-01 SCALE: 3" = 1'-0"



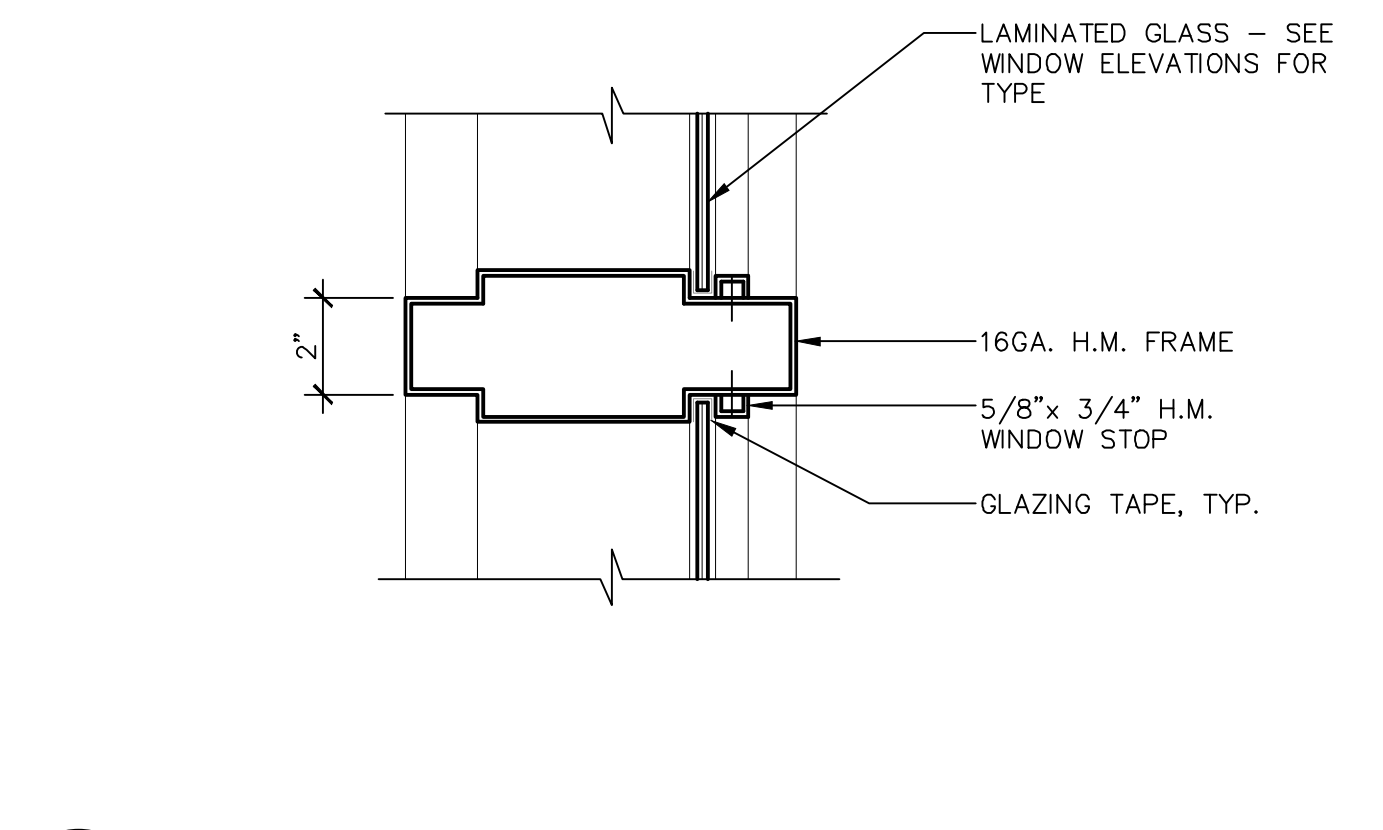
1 TYPICAL INTERIOR DOOR CONNECTION DETAIL
A8.03 ADD131-05 SCALE: 1/4" = 1'-0"



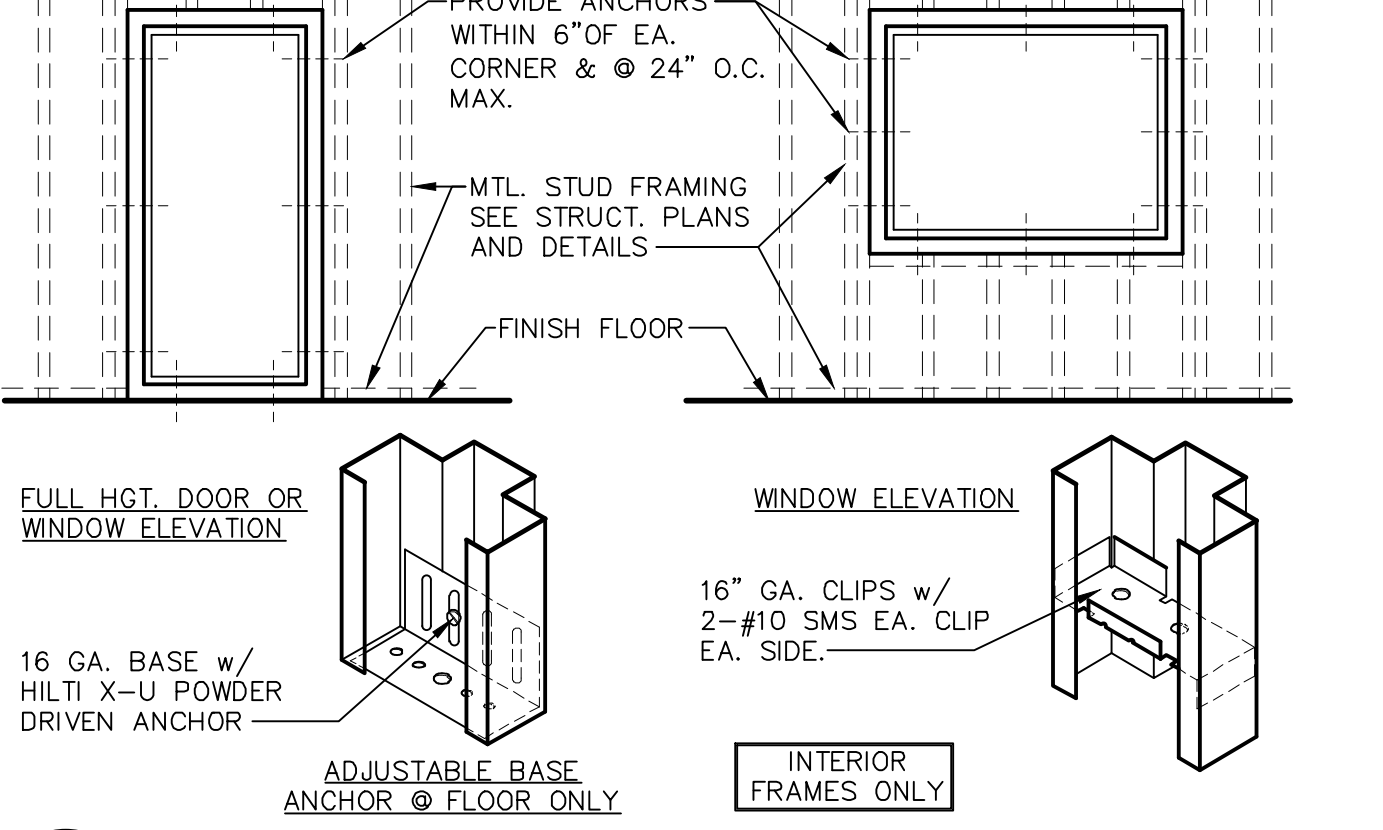
14 WINDOW H.M. FRAME MULLION
A8.03 ADG141-02 SCALE: 3" = 1'-0"



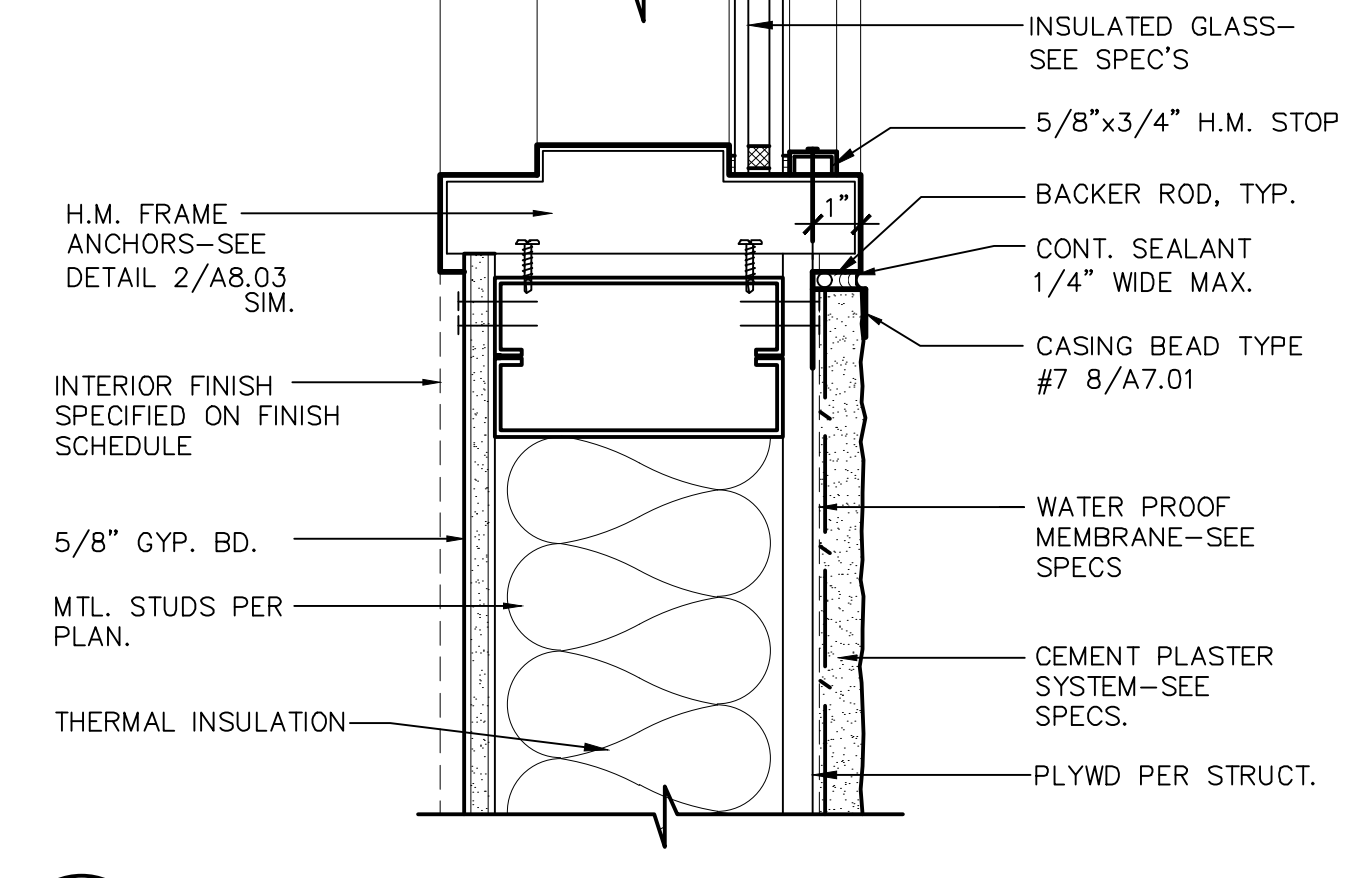
10 EXTERIOR HOLLOW METAL DOOR JAMB
A8.03 ADD131-02 SCALE: 3" = 1'-0"



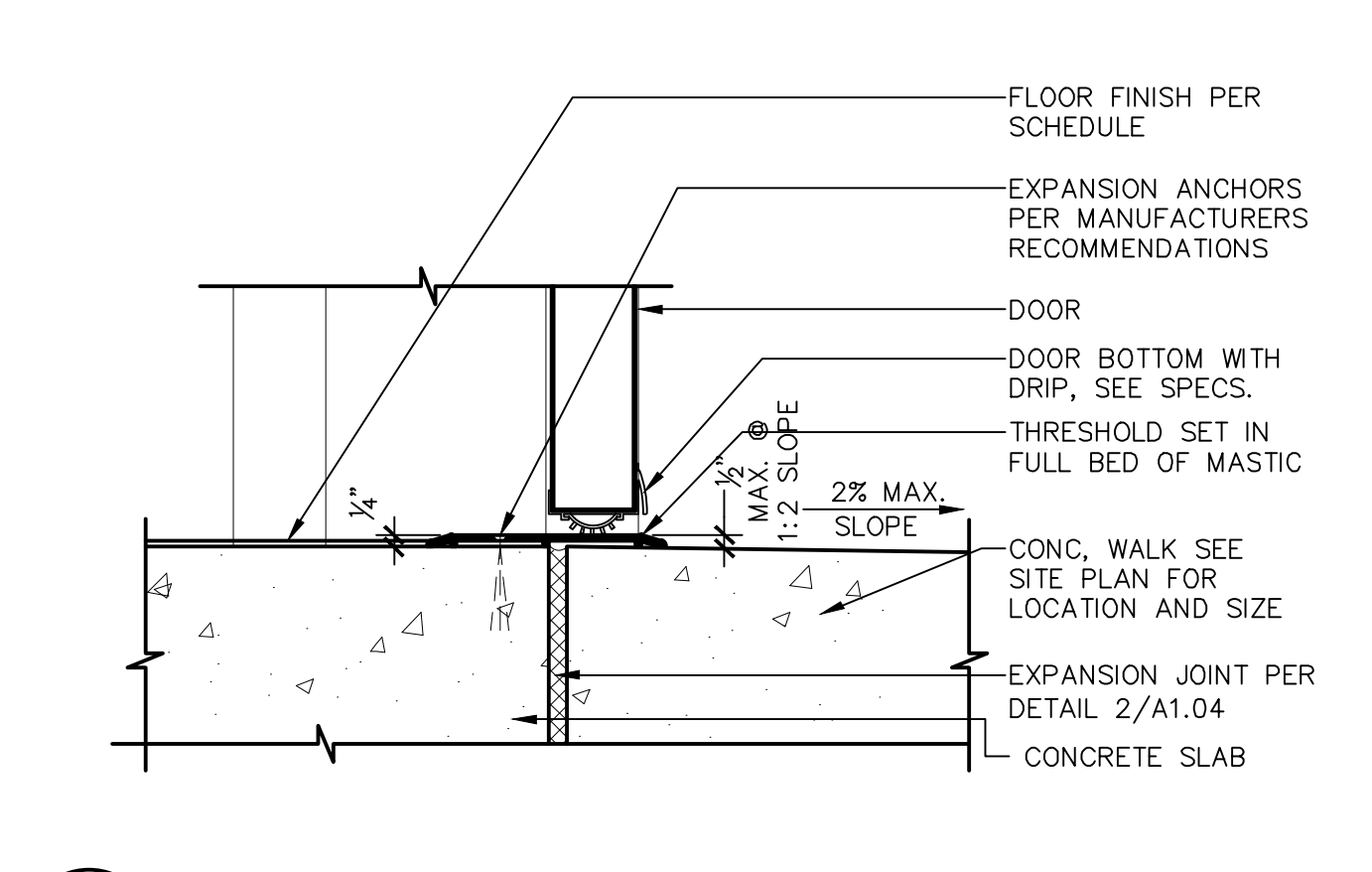
6 INTERIOR HOLLOW METAL WINDOW MULLION
A8.03 ADG230-04 SCALE: 3" = 1'-0"



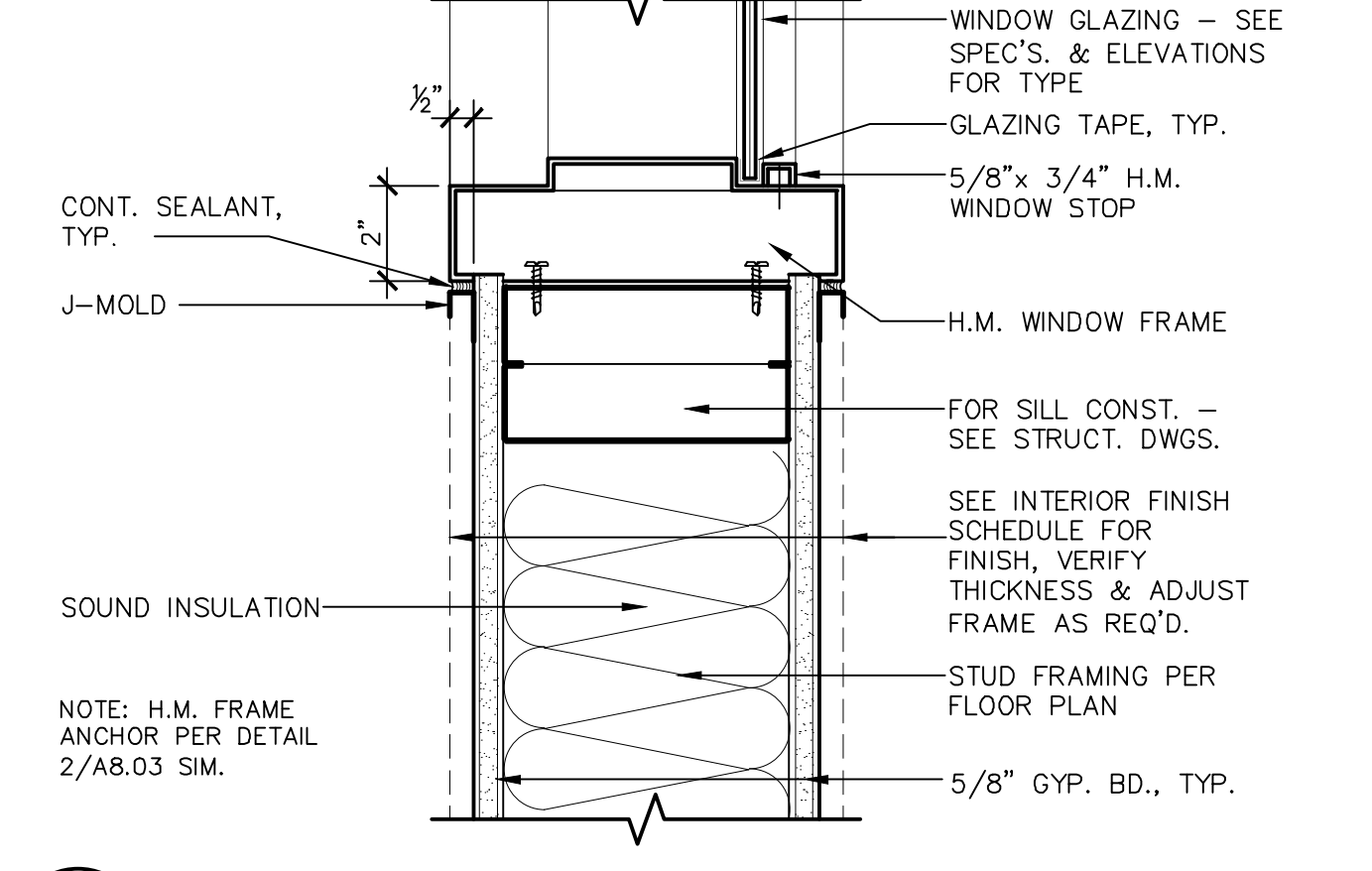
2 TYPICAL INTERIOR H.M. FRAME CONNECTION
A8.03 ADG130-01 SCALE: N.T.S.



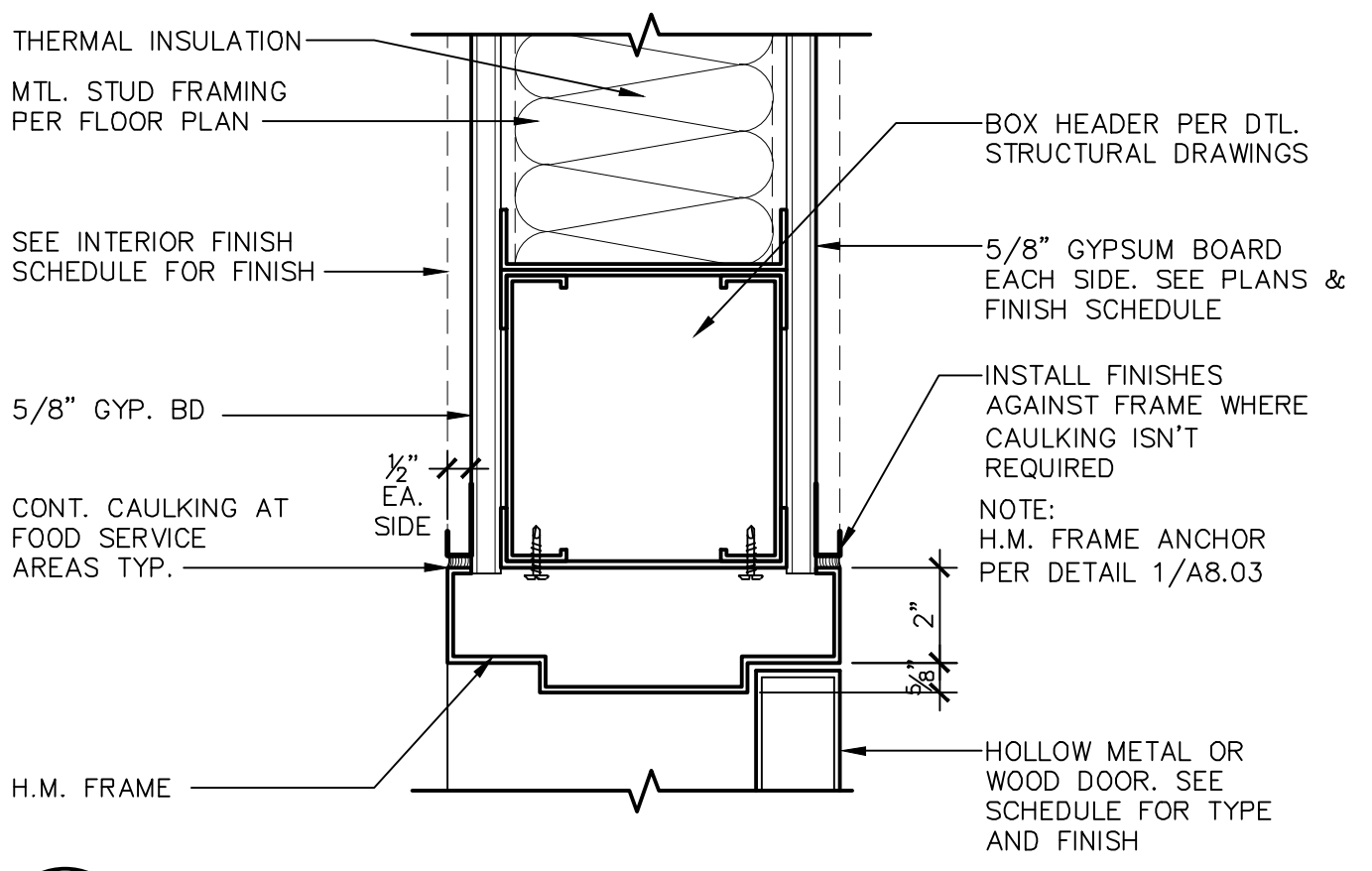
15 EXTERIOR HOLLOW METAL WINDOW JAMB
A8.03 ADG131-02 SCALE: 3" = 1'-0"



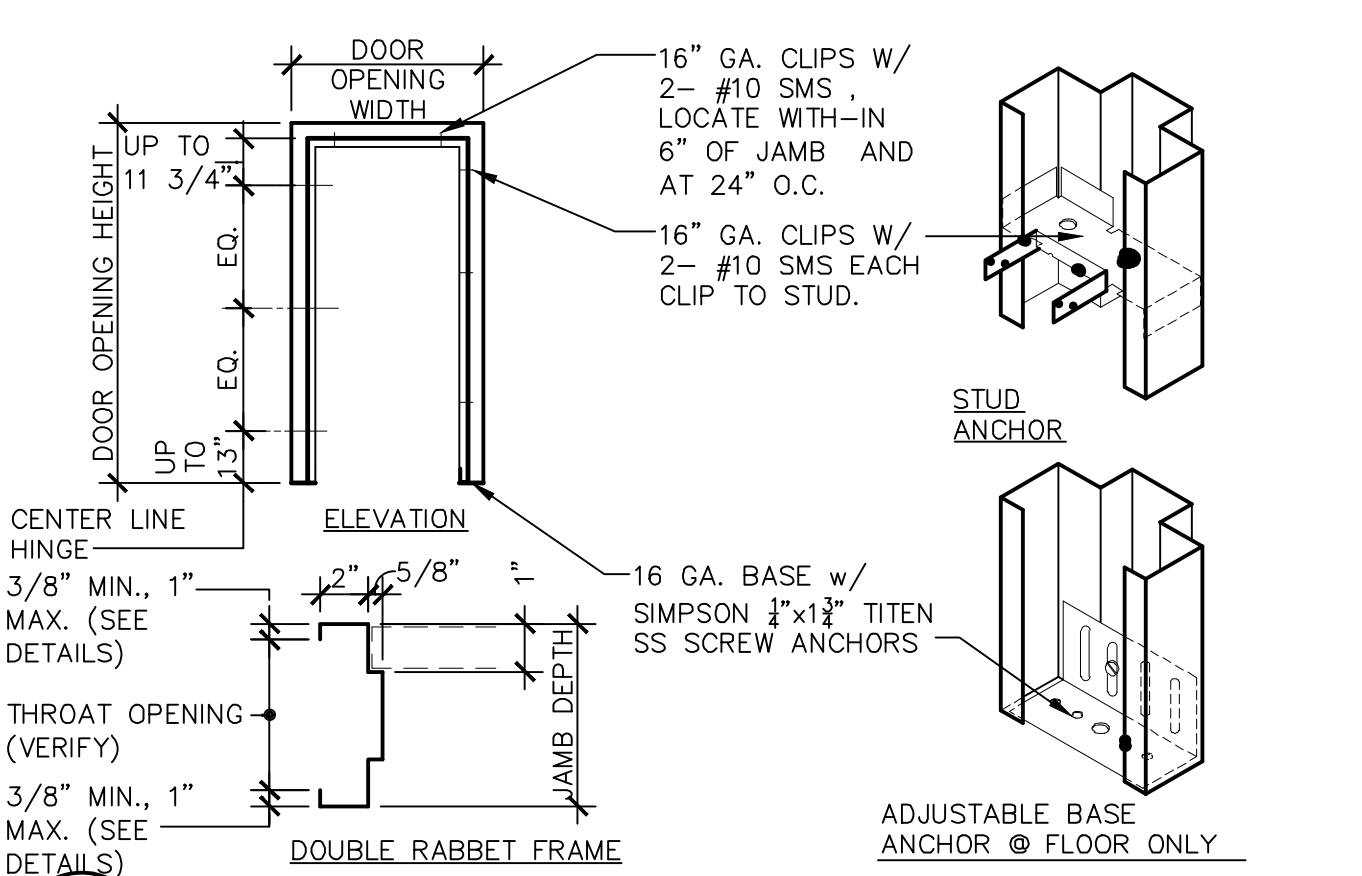
11 EXTERIOR DOOR THRESHOLD
A8.03 ADD130-01 SCALE: 3" = 1'-0"



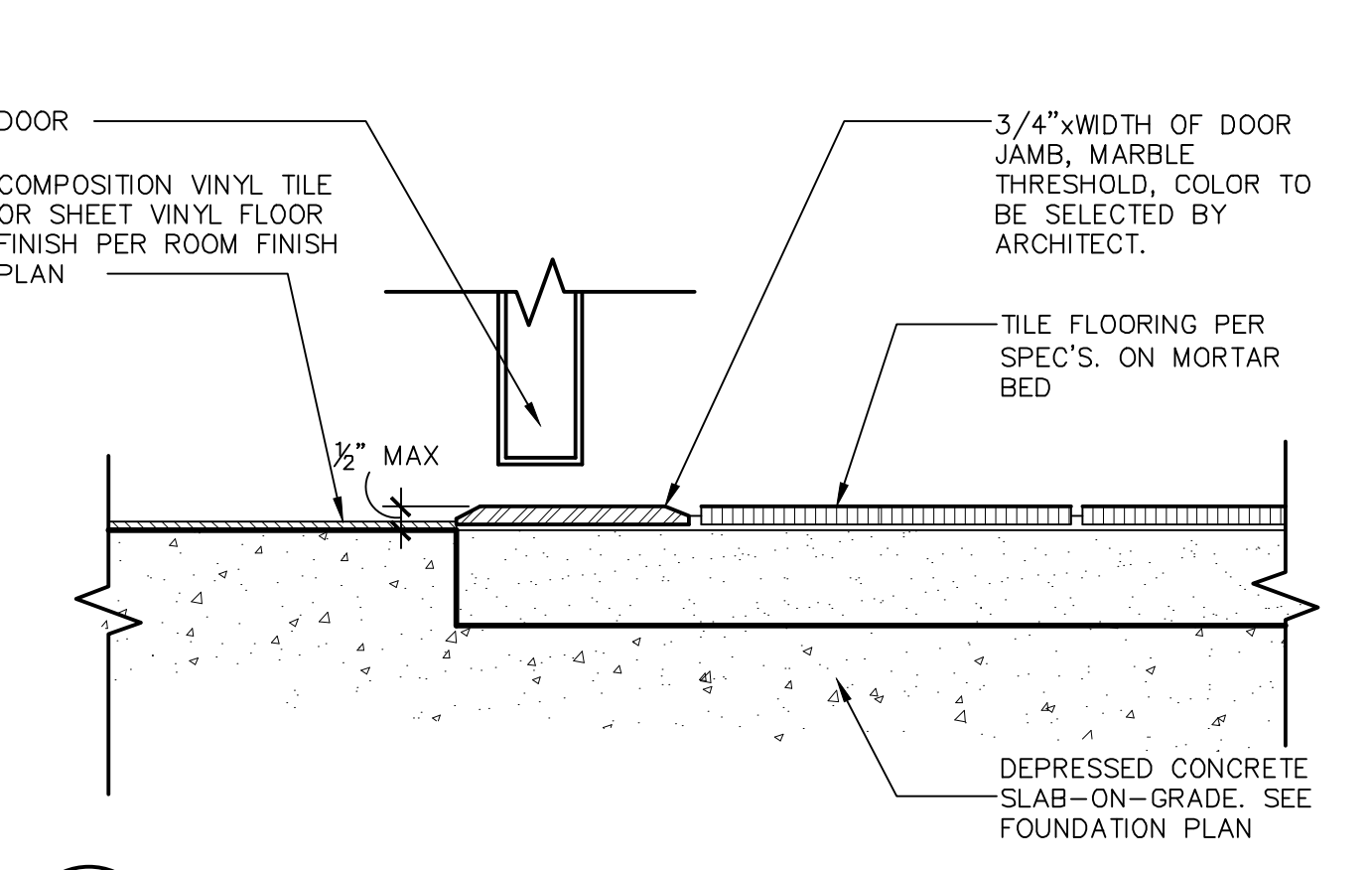
7 INTERIOR WINDOW SILL (JAMB SIM.)
A8.03 ADG230-03 SCALE: 3" = 1'-0"



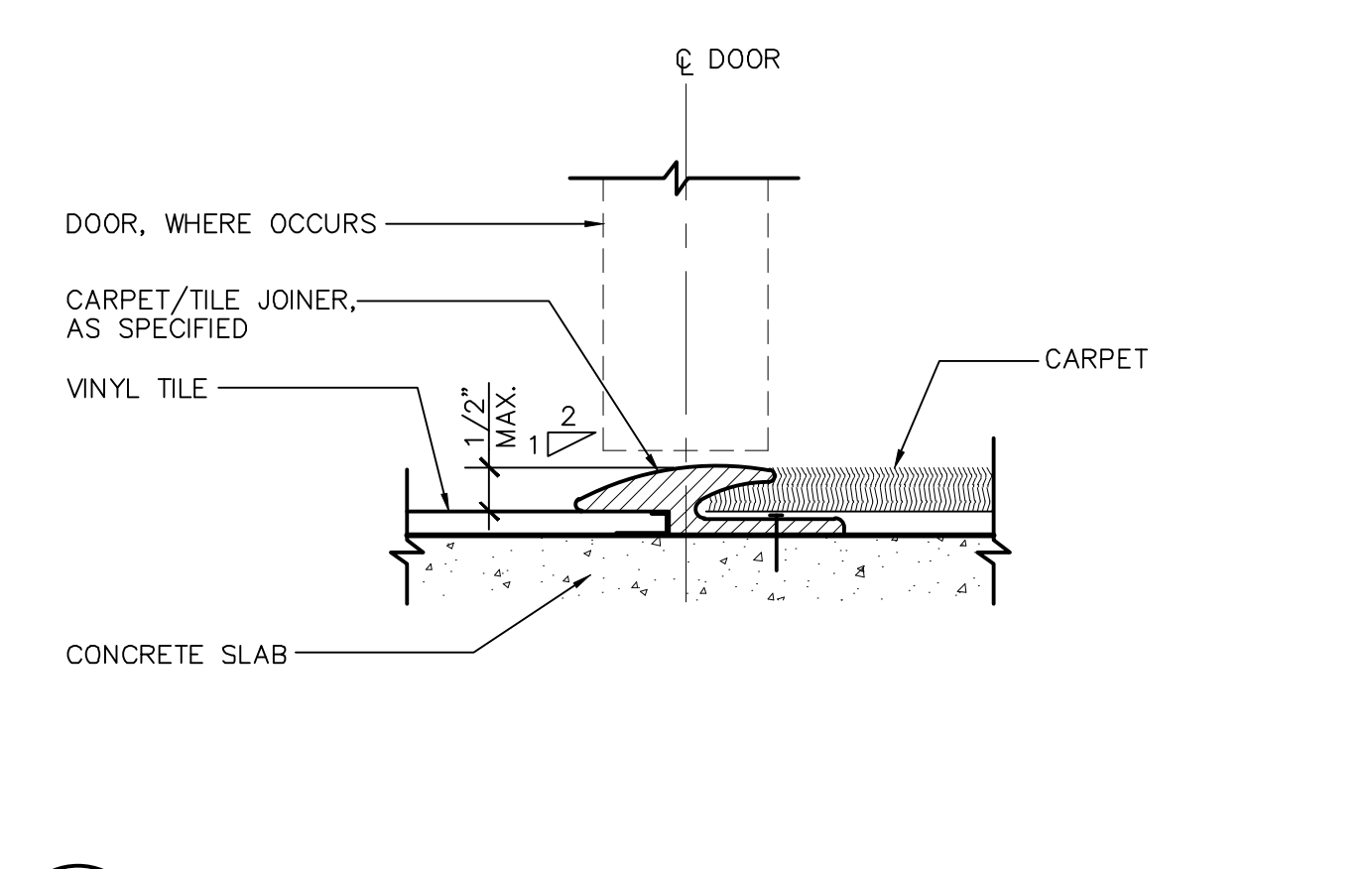
3 INTERIOR HOLLOW METAL DOOR HEAD
A8.03 ADD230-03 SCALE: 3" = 1'-0"



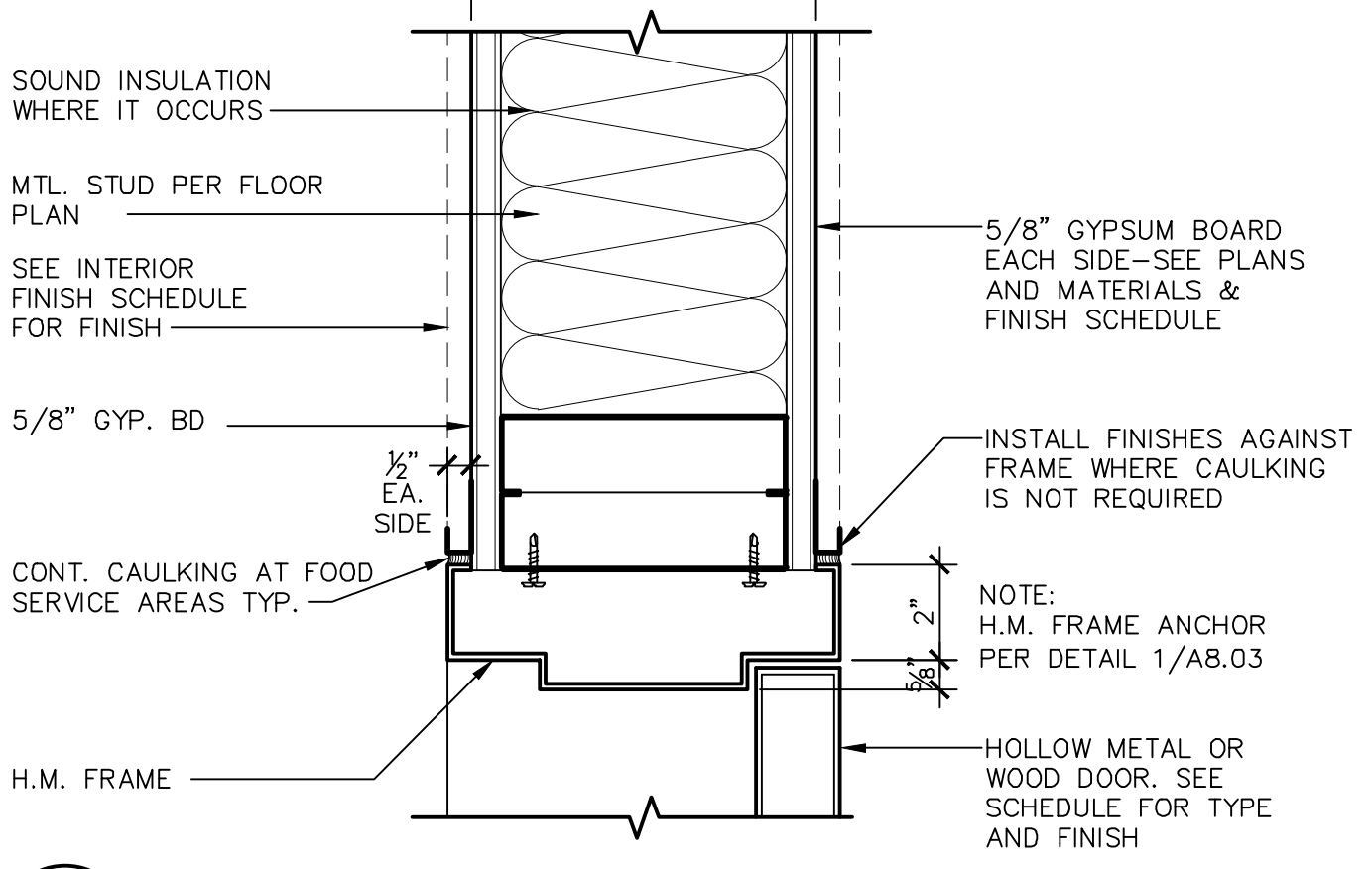
16 TYPICAL EXTERIOR DOOR CONNECTION DETAIL
A8.03 ADD131-05 SCALE: NTS



12 FLOORING TRANSITION
A8.03 ADI200-04 SCALE: 3" = 1'-0"



8 CARPET TO TILE TRANSITION
A8.03 ADI200-11 SCALE: 1" = 1'-0"



4 INTERIOR HOLLOW METAL DOOR JAMB
A8.03 ADD230-04 SCALE: 3" = 1'-0"

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DIV. OF THE STATE ARCHITECT
APP: 03-123900 INC:
REVIEWED FOR
SS FLS ACS
DATE: 08/05/2024

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST.
BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
1100 Citadel
Bakersfield, CA 93307

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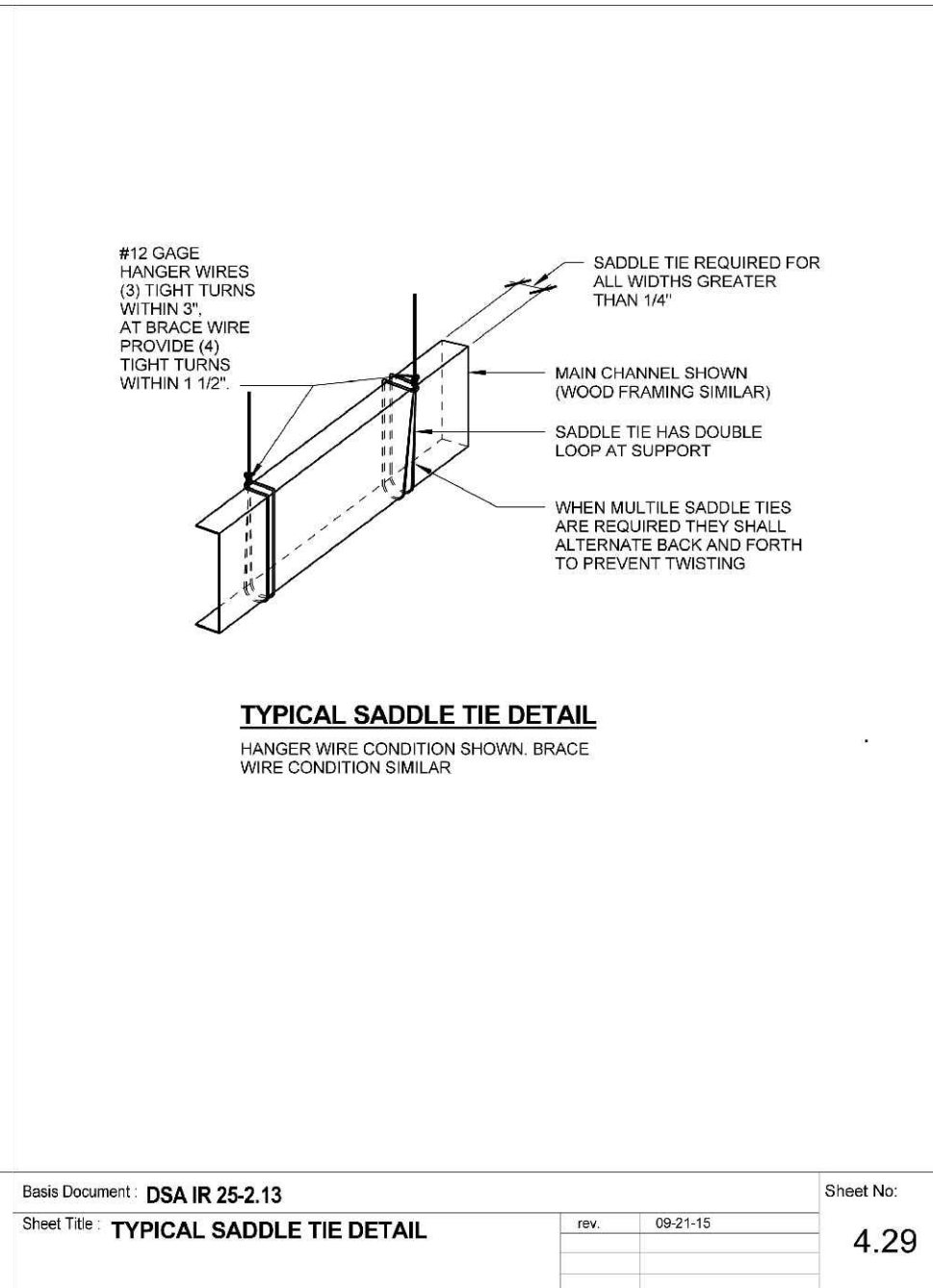
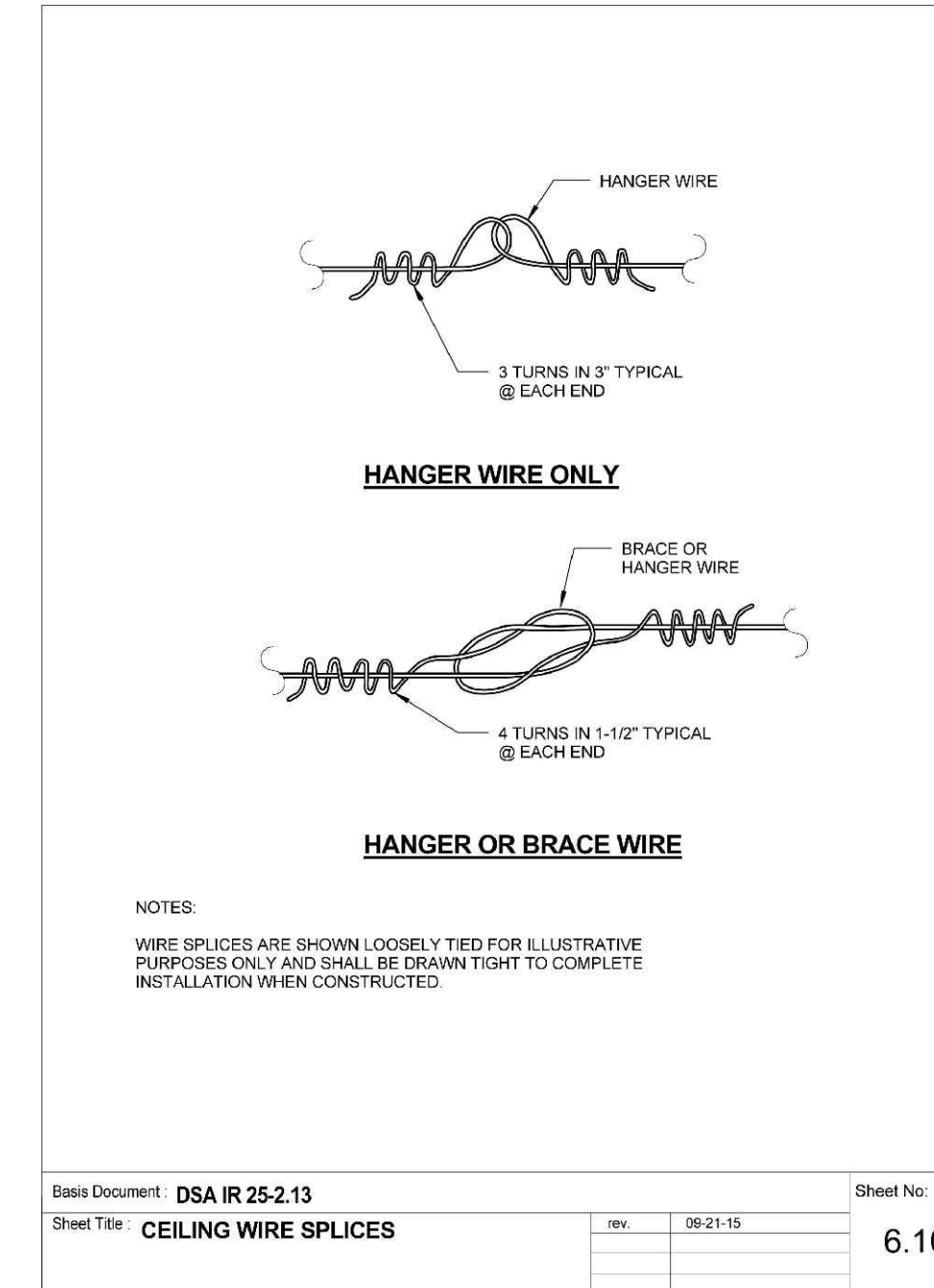
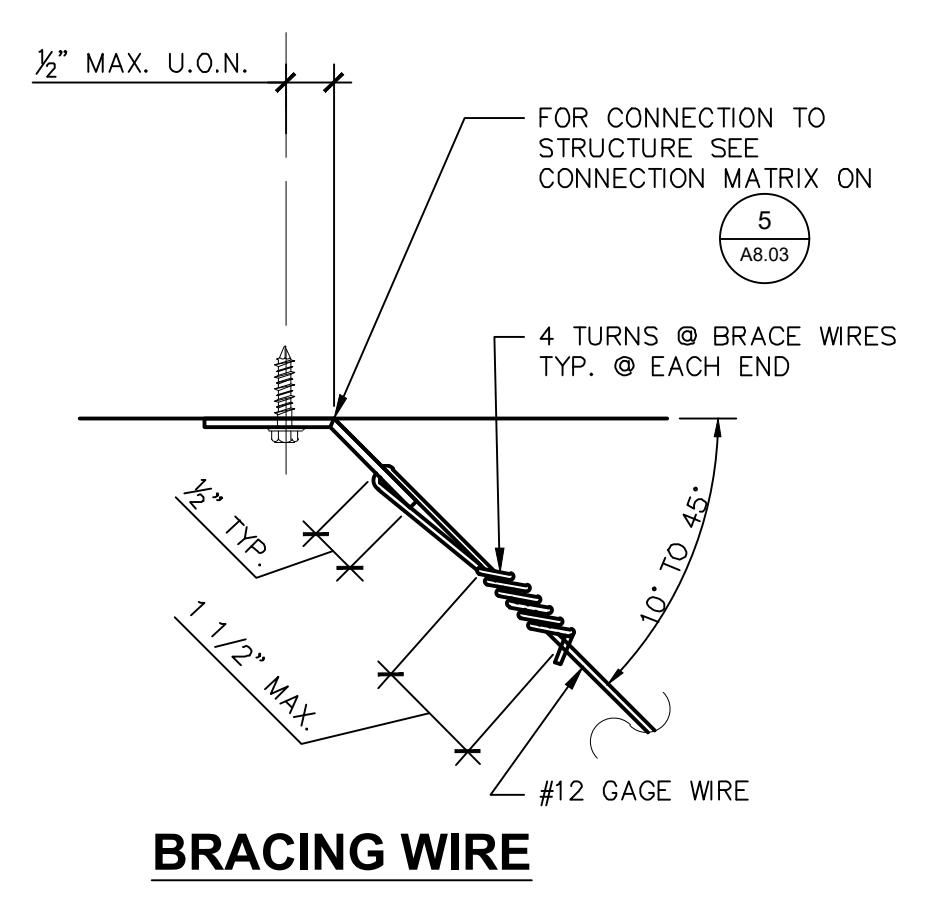
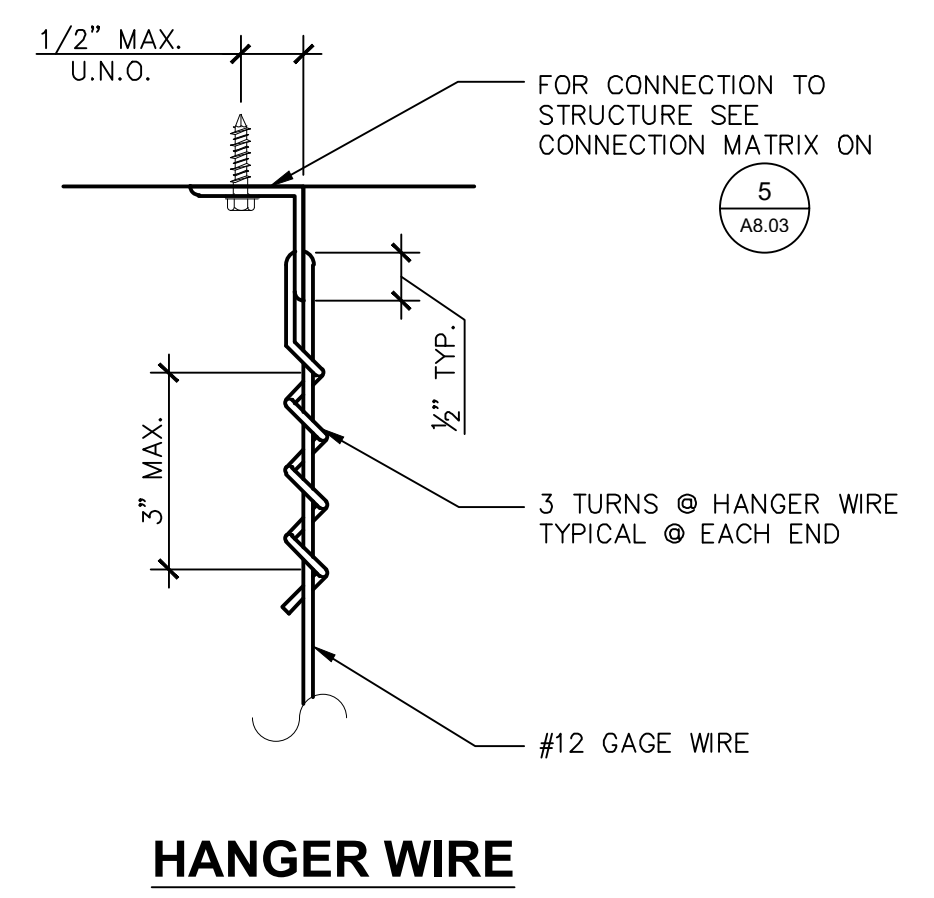
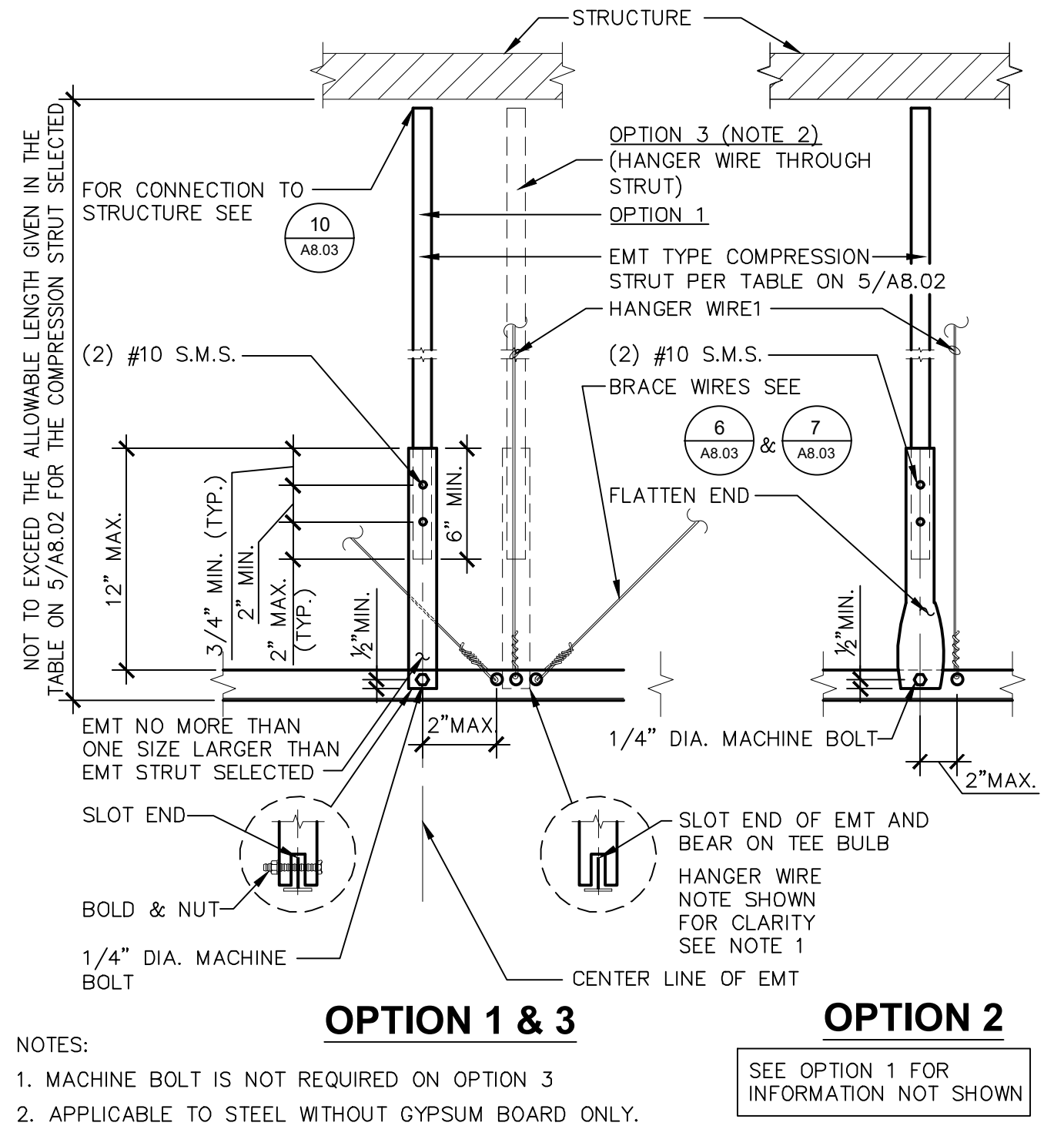
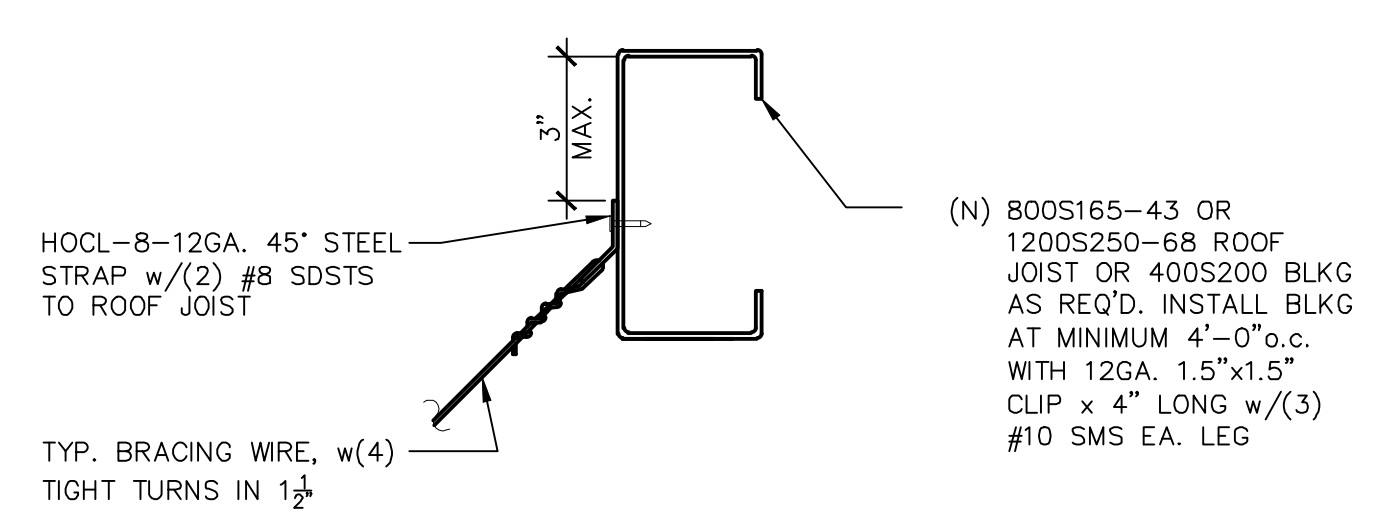
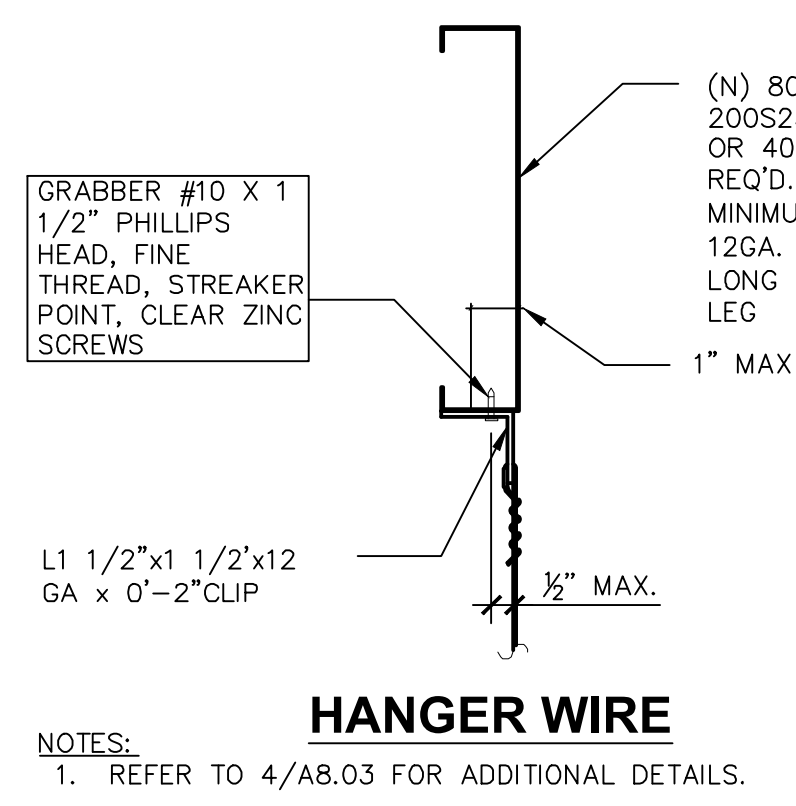
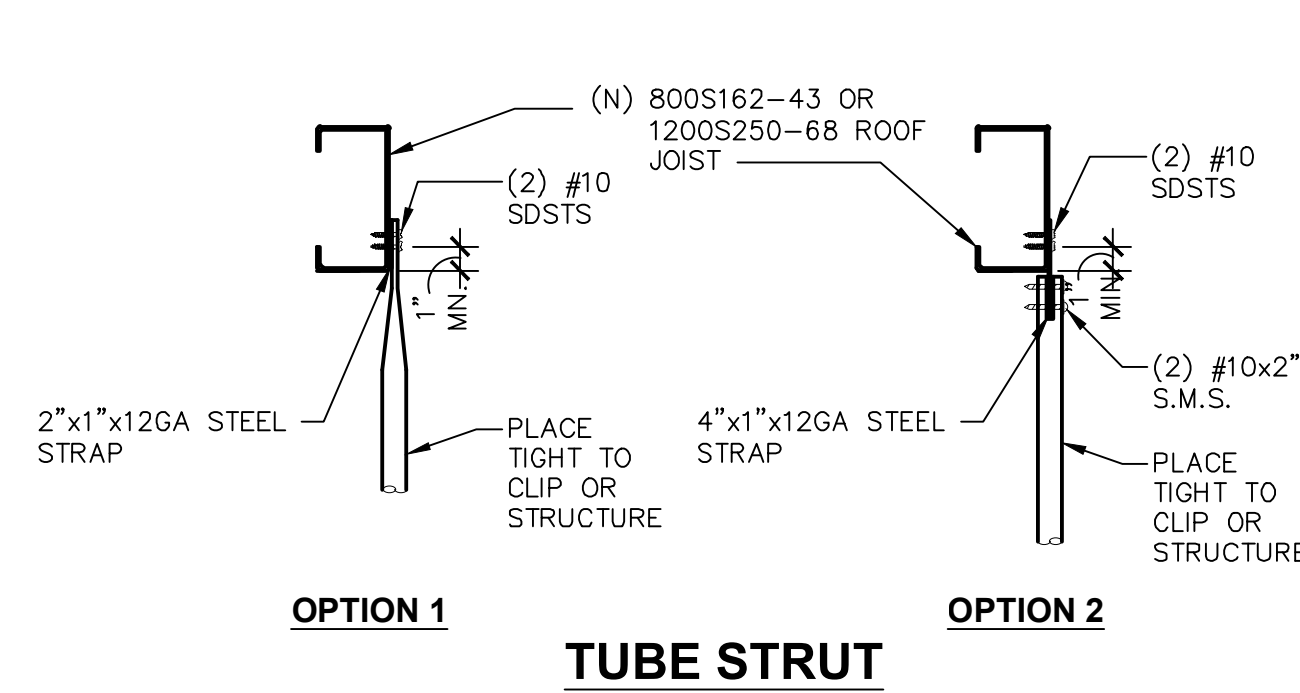
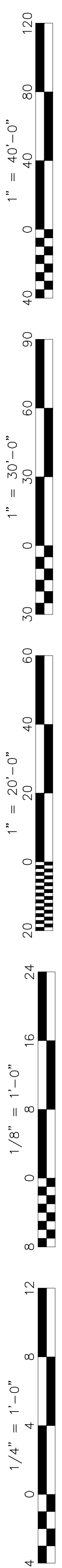
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Sheet Title:
DOOR & WINDOW DETAILS

Job No.: **5593**

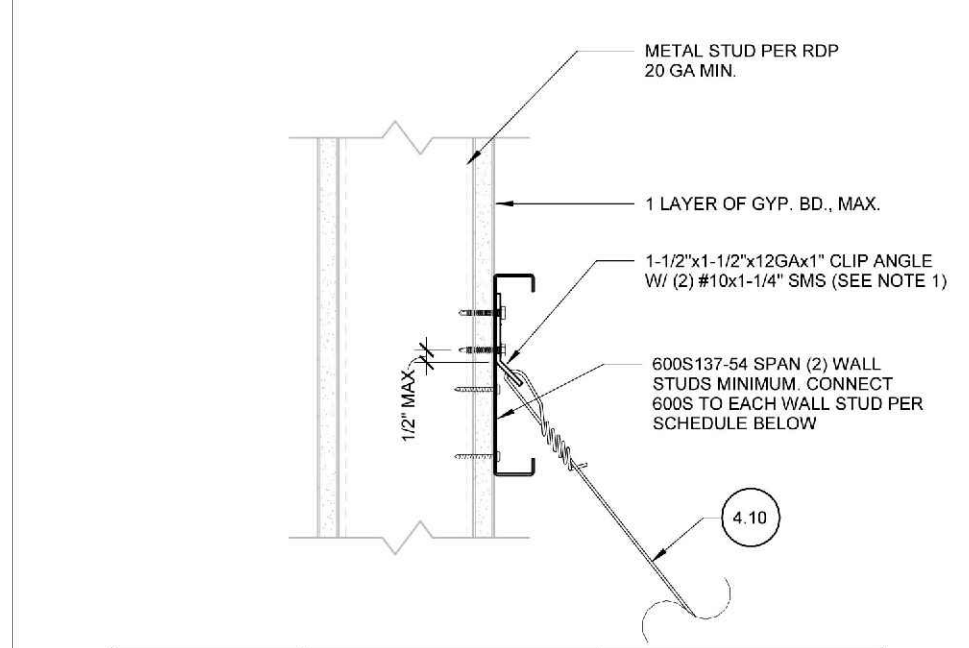
Sheet No.: **A8.03**

Release: DSA SUBMITTAL Issue Date: 7/24/24



Base Document: DSA IR 25-2.13
Sheet Title: CEILING WIRE SPLICES
rev. 09-21-15
Sheet No: 6.10

Base Document: DSA IR 25-2.13
Sheet Title: TYPICAL SADDLE TIE DETAIL
rev. 09-21-15
Sheet No: 4.29



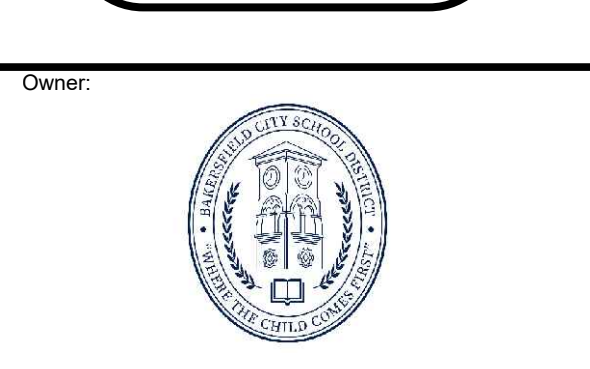
WALL STUD GAUGE	CONNECTION TO WALL STUD (WITH GYP. BD.)	CONNECTION TO WALL STUD (WITHOUT GYP. BD.)
20 GAUGE	(5) #10x1-1/4" S.M.S.	(3) #10x1-1/4" S.M.S.
18 GAUGE	(4) #10x1-1/4" S.M.S.	(2) #10x1-1/4" S.M.S.

Base Document: DSA IR 25-2.13
Sheet Title: BRACING WIRE CONNECTION TO METAL STUD WALL
rev. 09-21-15
rev. 03-19-17
Sheet No: 4.34

STRUCTURAL CONDITION OF FLOOR / ROOF ABOVE COMPRESSION STRUT	APPLICABLE DETAIL
METAL DECK	5.20
CONCRETE OVER METAL DECK	5.21
CONCRETE SLAB, BEAM, OR JOIST	5.30
STRUCTURAL STEEL	5.40
SAWN TIMBER WITH GYPSUM BOARD	5.50
SAWN TIMBER WITHOUT GYPSUM BOARD	5.60

Base Document: DSA IR 25-2.13
Sheet Title: COMPRESSION STRUT CONNECTION TO STRUCTURE - CONNECTION MATRIX
rev. 09-21-15
Sheet No: 5.10

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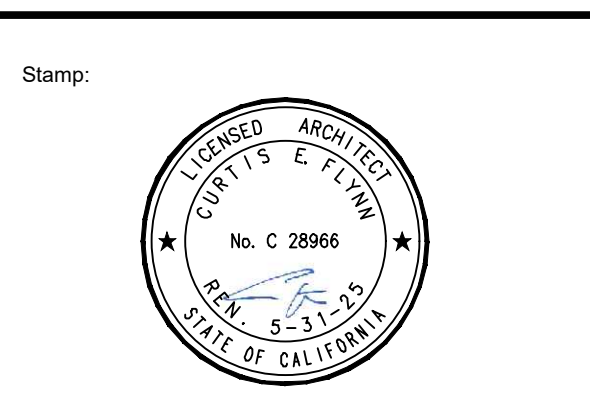
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Sheet Title:
REFLECTED CEILING DETAILS

Job No.:
5593

Sheet No.:
A8.05

Release: DSA SUBMITTAL Issue Date: 7/24/24

MATERIAL SPECIFICATIONS

GENERAL

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING CODE. SEE 'PROJECT DATA'

CONSTRUCTION LIABILITY

THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

CONCRETE & REINFORCING

REINFORCING STEEL

BARNS FOR REINFORCING SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A706 OR A615. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318, CURRENT EDITION UNLESS NOTED OTHERWISE ON THE PLANS. BARS TO BE WELDED OR FIELD BENT SHALL CONFORM TO ASTM A706.

CONCRETE

CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2019 EDITION OF ACI 301 & 318. CONCRETE SHALL BE READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94.

MAXIMUM WATER-CEMENT RATIO, BY WEIGHT

28 DAY COMPRESSIVE STRENGTH	WATER-CEMENT RATIO
5500 PSI CONCRETE	0.45
3000 PSI CONCRETE	0.50

AVERAGE DRYING SHRINKAGE FOR CONCRETE AFTER 21 DAYS OF DRYING SHALL NOT EXCEED 0.048% IN SLABS ON GRADE.

AT THE CONTRACTOR'S OPTION, AN AIR ENTRAINING AGENT CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C260 MAY BE ADDED TO THE CONCRETE TO PROVIDE UP TO A MAXIMUM OF 3% ± 1.5% ENTRAINED AIR. CEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PORTLAND CEMENT PER ASTM DESIGNATION C150, TYPE II. NO MORE THAN 15% BY WEIGHT OF CEMENT MAY BE REPLACED BY FLY ASH CONFORMING TO ASTM C618, CLASS N OR F.

CONCRETE ELEMENT	MIN 28 DAY COMPRESSIVE STRENGTH	MAX SIZE AGGREGATE (INCHES)	SUMP (INCHES)
FOOTINGS	3000	1-1/2	3
SLABS ON GRADE	3500	1	4

SUMP WILL BE MEASURED AT THE TRUCK DISCHARGE. SLUMPS NOTED ABOVE ARE FOR CONCRETE WITHOUT ADMIXTURES TO BE CONSOLIDATED USING VIBRATION. FORMWORK CONSTRAINTS, CONGESTION OF REBAR, AND PUMPING OF CONCRETE MAY REQUIRE INCREASED SLUMP BEYOND THE SLUMP LISTED ABOVE. THE CONTRACTOR SHALL ADJUST THE SLUMP UP TO 8" MAX USING ADMIXTURES AS NECESSARY TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. ALL ADMIXTURES SHALL BE NOTED IN THE SUBMITTED MIX DESIGN AND ARE SUBJECT TO THE ENGINEER'S REVIEW. THE SPECIAL INSPECTOR SHALL BE PROVIDED WITH A BATCH TICKET AND WEIGHT TAG UPON DELIVERY OF EACH LOAD OF CONCRETE.

ALL CONCRETE SHALL BE PLACED WITH MECHANICAL VIBRATION UNLESS NOTED OTHERWISE.

EXPOSURE CATEGORIES AND CLASSES FOR ALL CONCRETE TYPES ARE AS FOLLOWS:

A. FREEZING AND THAWING:	CLASS: F0
B. SULFATE EXPOSURE:	CLASS: S0
C. IN CONTACT WITH WATER:	CLASS: W0
D. CORROSION PROTECTION OF REINFORCEMENT:	CLASS: C1

SLAB MEMBRANE - 15 MIL POLYETHYLENE FILM, UNLESS NOTED OTHERWISE.

UNDER SLAB MATERIALS

SLAB MEMBRANE SHALL BE 15 MIL POLYETHYLENE FILM, UNLESS NOTED OTHERWISE. LAP SLAB MEMBRANE PER THE MANUFACTURER'S RECOMMENDATIONS, BUT NO LESS THAN 12 INCHES.

GRAVEL SHALL BE 3/4" CLEAN MATERIAL MEETING THE REQUIREMENTS OF ACI 302.1R.

NON-SHRINK GROUT

NON SHRINK GROUT SHALL BE FLOWABLE, WITH A MINIMUM 7 DAY COMPRESSIVE STRENGTH OF 5000 PSI. NON-SHRINK GROUT SHALL BE MASTERFLOW 928 GROUT AS MANUFACTURED BY BASF OR APPROVED EQUAL.

POST INSTALLED ANCHORS

EXISTING CONCRETE SURFACES SHALL BE SCANNED PER "AS-BUILT INFORMATION" ON S0.01 TO ENSURE EXISTING REINFORCEMENT REMAINS UNDAMAGED DURING POST INSTALLED ANCHOR INSTALLATION.

MECHANICAL ANCHORING SYSTEMS FOR CONCRETE

MECHANICAL ANCHORING SYSTEMS SHALL BE:
• SIMPSON TITEN HD (ICC ESR-2713)
• APPROVED EQUAL W/ VALID EVALUATION REPORT PER DSA IR A-5
INSTALLATION OF ANCHORS INCLUDING DRILLING AND CLEANING OF HOLES SHALL BE IN ACCORDANCE WITH THE CURRENT ICC OR IAPMO REPORT

ADHESIVE ANCHORING SYSTEMS FOR CONCRETE

ADHESIVE ANCHORING SYSTEMS SHALL BE:
• HILTI HIT-RE 500 V3 (ICC ESR-3814) OR HIT-HY 200 A or R (choose) (ICC ESR 3187)
• SIMPSON SET-XP (ICC ESR-2508) OR AT-XP (IAPMO UES ER-263)
• DEWALT POWERS PURE 110+ (ICC ESR-3298) OR AC100+ GOLD (ICC ESR-2582)
• APPROVED EQUAL W/ VALID EVALUATION REPORT PER DSA IR A-5
INSTALLATION OF ANCHORS AND ADHESIVE INCLUDING DRILLING AND CLEANING OF HOLES SHALL BE IN ACCORDANCE WITH CBC 1910A.5.4 AND THE CURRENT ICC OR IAPMO REPORT. ADHESIVES SHALL BE USED ONLY IN APPLICATIONS PERMITTED BY THE ADHESIVE'S ICC OR IAPMO REPORT. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.

EXPANSION ANCHORS FOR CONCRETE

EXPANSION ANCHORS SHALL BE:
• HILTI KWIK BOLT T22 ANCHORS (ICC ESR-4266),
• SIMPSON STRONG BOLT 2 WEDGE ANCHOR (ICC ESR-3037)
• DEWALT POWERS POWER-STUD+ SD2 (ICC ESR-2502)
APPROVED EQUAL

CONTRACTOR SHALL TORQUE ANCHORS IN ACCORDANCE WITH THE ICC OR IAPMO REPORT. EXPANSION ANCHORS SHALL USE WASHERS SIZED TO PREVENT CRUSHING OF THE ATTACHED MEMBER UNDER THE INSTALLATION TORQUE.

STRUCTURAL STEEL

STRUCTURAL STEEL AND MISCELLANEOUS IRON

STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC CODE OF STANDARD PRACTICE.

- WIDE FLANGE AND STRUCTURAL TEE SHAPES SHALL CONFORM TO ASTM A992.
- CHANNELS AND ANGLES SHALL CONFORM TO ASTM A36.
- HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C.
- STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
- STRUCTURAL PLATE SHALL CONFORM TO ASTM A36 OR ASTM A572 GR50.
- RAISED-PATTERN FLOOR PLATE SHALL CONFORM TO ASTM A786.

ALL STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL RECEIVE SHOP PRIME COAT EXCEPT ON SURFACES RECEIVING WELDS, EMBEDDED IN CONCRETE, OR AT SLIP CRITICAL HIGH STRENGTH BOLTS WHICH SHALL BE TOUCHED UP AFTER CONNECTION IS COMPLETE. STRUCTURAL STEEL AND MISCELLANEOUS IRON WHICH IS TO HAVE SPRAY ON FIREPROOFING SHALL NOT BE PAINTED. STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL RECEIVE TWO COATS OF SEMI-GLOSS ALKYD ENAMEL COMPATIBLE WITH PRIMER.

MACHINE BOLTS, ANCHOR BOLTS AND THREADED RODS

BOLTS, NUTS, WASHERS AND RODS PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

- BOLTS SHALL CONFORM TO ASTM A307 GRADE A OR B OR A36.
- ANCHOR BOLTS AND RODS SHALL CONFORM TO ASTM F1554 GR 36.
- ALL BOLTS & LAG SCREWS SHALL HAVE STANDARD STEEL WASHERS THAT CONFORM TO ASTM F436 TYP 1, U.N.O.
- NUTS SHALL BE AS SHOWN BELOW AND FINISH SHALL MATCH FASTENER.
- BOLT HOLES SHALL BE STANDARD SIZE (BOLT DIA + 1/16") TYP, U.N.O.

FASTENER GRADE AND SIZE

FASTENER GRADE AND SIZE	NUT CLASS	NUT STYLE
ASTM A307 GR A, F1554 GR 36, 1/4" TO 1-1/2"	ASTM A563-A	HEX
ASTM A307 GR A, F1554 GR 36, OVER 1-1/2" TO 4"	ASTM A563-A	HEAVY HEX
ASTM A307 GR B, 1/4" TO 4"	ASTM A563-A	HEAVY HEX

WELDING

ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS PER AWS "STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT AWS WELDING CODE. ARC WELDING ELECTRODES SHALL BE E70 SERIES FOR A36, A53, A500, A572 & A992 MATERIAL, AND E80 SERIES FOR A706 REINFORCING STEEL.

WELD METAL TOUGHNESS SHALL BE REPORTED ON THE ELECTRODE MANUFACTURER'S CERTIFICATE OF COMPLIANCE. ALL ELECTRODES SHALL BE LOW HYDROGEN WITH A MINIMUM CVN VALUE OF 20 FT-LBS AT -20 DEGREE F. EXCEPTIONS: METAL DECK WELDING, STAIR AND HANDRAIL WELDING, LIGHT GAGE STEEL WELDING.

TACK WELDS, AIR-ARC GOUGING AND FLAME CUTTING SHALL NOT BE PERFORMED WITHOUT ADEQUATE PREHEAT OR INCORPORATION INTO THE FINAL WELD.

THE FILLER METAL MANUFACTURER'S PUBLISHED RECOMMENDATIONS SHALL BE THE BASIS FOR DETERMINING THE ALLOWABLE RANGE OF ESSENTIAL VARIABLES FOR THE PRE QUALIFIED WPS, UNLESS NOTED OTHERWISE ON THE PLANS. BACK-UP BARS FOR CJP WELDS SHALL BE REMOVED FOLLOWED BY BACKGOUGING AND BACKWELDING.

AUTOMATIC END WELDED STUDS

AUTOMATIC END WELDED STUDS SHALL BE NELSON GRANULAR FLUX-FILLED S3L SHEAR CONNECTORS OR CFL FULLY THREADED STUDS (OR APPROVED EQUAL).

- STUDS SHALL CONFORM TO ASTM A108, GRADES C1010 THROUGH C1020, COLD DRAWN STEEL.
- HEADED ANCHOR STUDS SHALL BE AWS D1.1 TYPE B.
- THREADED STUDS SHALL BE AWS D1.1 TYPE A.
- ALL THREADED STUDS SHALL HAVE STANDARD STEEL WASHERS, U.N.O.

THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" DIAMETER AND UNDER, AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.

LIGHT GAGE METAL FRAMING

MEMBERS

ALL LIGHT GAGE METAL FRAMING SHALL CONFORM TO ASTM A1003 GR33 TYPE H FOR MEMBERS WITH A DESIGNATION THICKNESS OF 33 AND 43 MILS AND ASTM A1003 GR50 TYPE H FOR MEMBERS WITH A DESIGNATION THICKNESS EQUAL TO OR GREATER THAN 54 MILS. STUDS SHALL HAVE PUNCHED WEBS. STUDS AND JOISTS SHALL HAVE STIFFENED FLANGES W/ 1-5/8" MIN WIDTH UNLESS NOTED OTHERWISE ON THE PLANS.

SHEET METAL SCREWS

SHEET METAL SCREWS SHALL CONFORM TO ASTM C1513

SHOT PINS/ POWER ACTUATED FASTENERS (PAF):

ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI, INCORP. REFERENCE SHALL BE MADE TO THE LATEST EDITION OF THE HILTI "PRODUCT TECHNICAL GUIDE" AND THE ICC ES ESR 2269 REPORT FOR ADDITIONAL INFORMATION.

SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE XU TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE THROUGH THE STEEL BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONNECTED PART SHALL BE 1/2" AND MINIMUM FASTENER SPACING SHALL BE 2". ENTIRE POINTED END OF PIN MUST PENETRATE THROUGH STEEL LESS THAN 1/2" THICK OR PENETRATE A MINIMUM OF 1/2" INTO STEEL 1/2" THICK OR GREATER. PINS IN STEEL SUBJECT TO WITHDRAW LOADS ARE REQUIRED TO HAVE KNURLED SHANK.

SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE XU TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1 1/2" INTO THE CONCRETE BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONCRETE MATERIAL SHALL BE 3" AND MINIMUM FASTENER SPACING SHALL BE 4".

SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL THROUGH METAL DECK SHALL BE XU TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1" INTO THE CONCRETE THROUGH THE LOW FLUTE. PIN SHALL BE CENTERED IN THE LOW FLUTE AND MINIMUM FASTENER SPACING SHALL BE 4".

WHERE STEEL WASHERS ARE INDICATED ON THE DRAWINGS, PINS SHALL BE XU WITH PREMOUNTED STEEL WASHERS WITH A MINIMUM DIAMETER OF 36mm (1 7/16").

POST INSTALLED ANCHOR TESTING NOT REQUIRED FOR INTERIOR NON-BEARING NON-SHEAR WALL SILL ATTACHMENT

WOOD FRAMING

PLYWOOD

ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1-19, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ALL PLYWOOD PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE PLYWOOD.

ALL UNBLOCKED PLYWOOD EDGES SHALL BE TONGUE-AND-GROOVE OR SUPPORTED WITH PLYWOOD CLEATS OR PLYWOOD CLIPS.

ROOF PLYWOOD:

- 5 PLY EXPOSURE 1, CDX, SPAN RATING 32/16, SPECIES GROUP 2 OR BETTER.

WALL PLYWOOD:

- 4 PLY EXPOSURE 1, STRUCTURAL 1, SPAN RATING 32/16, SPECIES GROUP 1.

SHEATHING

ALL SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARDS PS 2-18, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ROOF SHEATHING:

- EXPOSURE 1, OSB-STRUCT I, SPAN RATING 32/16, SPECIES GROUP 2 OR BETTER.

WALL SHEATHING:

- EXPOSURE 1, OSB-STRUCT I, SPAN RATING 24/0, SPECIES GROUP 2 OR BETTER.

LIGHT GAGE METAL CONNECTORS

ALL LIGHT GAGE METAL CONNECTORS SHALL BE SIMPSON STRONG TIE CONNECTORS OR APPROVED EQUAL, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER TO BE HOT DIPPED ZINC-COATED GALVANIZED STEEL IN COMPLIANCE WITH ASTM A653 OR ASTM A123.

SUBMITTALS

SUBMITTALS FOR THE ENGINEERS REVIEW WILL BE REQUIRED AS FOLLOWS:

- REINFORCING STEEL SHOP DRAWINGS
- MIX DESIGNS
- STRUCTURAL STEEL AND MISCELLANEOUS METALS SHOP DRAWINGS
- WELDING PROCEDURE SPECIFICATIONS (AND PQR IF APPLICABLE)

NOTES:

- CONTRACTOR SHALL ELECTRONICALLY SUBMIT SUBMITTALS FOR REVIEW OR SHALL SUBMIT A MINIMUM OF TWO SETS OF HARD PRINTS FOR REVIEW.
- THE GENERAL CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR SHALL VERIFY THAT THE SHOP DRAWING IS COORDINATED AMONG ALL CONSTRUCTION TRADES AND THAT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
- CONTRACTOR SHALL SUBMIT IN WRITING, ANY REQUEST FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING REQUESTED.
- REVISIONS FROM PREVIOUS SUBMITTALS SHALL BE CLEARLY MARKED BY CLOUDS.
- FABRICATION SHALL NOT PROCEED UNTIL SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.

CONTRACTOR'S STATEMENT OF RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC OR WIND-FORCE RESISTING SYSTEM OR COMPONENT SHALL ISSUE A WRITTEN STATEMENT OF RESPONSIBILITY IN COMPLIANCE WITH SECTION 17084A.4 OF THE CURRENT GOVERNING EDITION OF THE CALIFORNIA BUILDING CODE. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

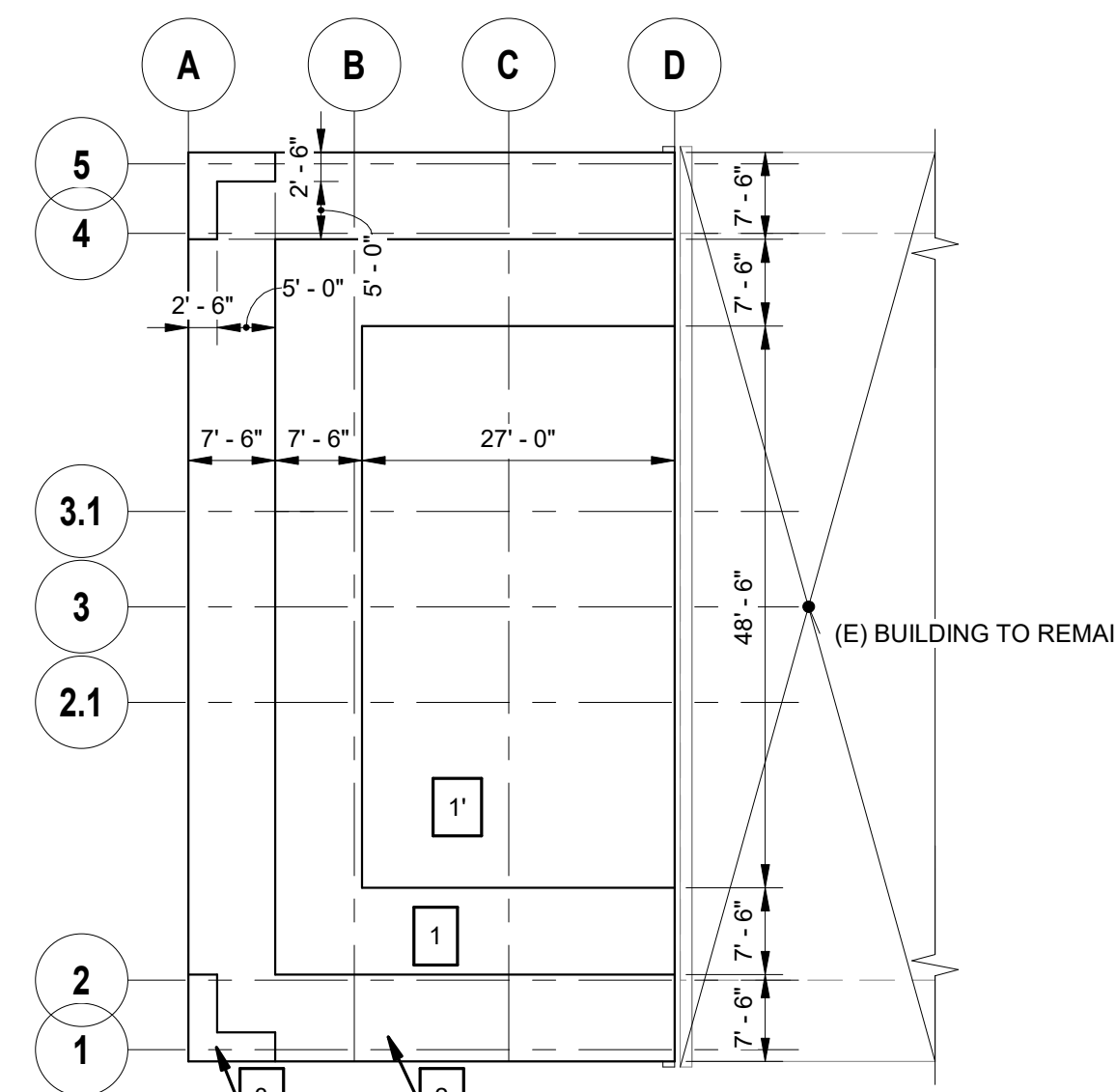
PROJECT DATA

- PLANS AND CALCULATIONS FOR THE STRUCTURAL DESIGN WERE BASED UPON:
- GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE W/ CHAPTER A AMENDMENTS
- SOILS REPORT: "GEO TECHNICAL ENGINEERING AND GEOLOGIC/SEISMIC HAZARD INVESTIGATION" PROJECT NUMBER: 022-17101 BY KRAZAN & ASSOCIATES, INC. DATED NOVEMBER 30, 2023
- VERTICAL LOADS:
ROOF DEAD LOAD = 16 PSF
ROOF DEAD LOAD @ SOLAR ZONE = 19 PSF
ROOF LIVE LOAD = 20 PSF [REDUCED PER CODE]
- EARTHQUAKE DESIGN DATA:
EQUIVALENT LATERAL FORCE PROCEDURE
 $V = \frac{S_{D1}}{R} W$
 $S_1 = 0.956; S_1 = 0.345$
 $S_2 = 0.712; S_2 = 0.450$
 $I = 1.25; \text{RISK CATEGORY III}$
SITE CLASS = D; SEISMIC DESIGN CAT = D
SEISMIC RESISTING SYSTEM: LIGHT FRAME COLD FORMED STEEL WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
 $R = 6.5; \Omega_e = 3.0; C_e = 4.0$
 $V = 0.137 W$ [LRFD]
- WIND DESIGN DATA:
BASIC WIND SPEED = 101 MPH
RISK CATEGORY III
WIND EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT = +0.18, -0.18
DESIGN WIND PRESSURE = 22.2 PSF
WALL COMPONENTS AND CLADDING PRESSURE = +22.3 (ZONE 4&5), -24.2 (ZONE 4), -29.8 (ZONE 5) PSF [LRFD]
ROOF COMPONENTS AND CLADDING PRESSURE = +16.0 (ALL ZONES), -20.4 (ZONE 1), -35.5 (ZONE 1), -46.8 (ZONE 2), -63.8 (ZONE 3) PSF [LRFD]

NOTE: COMPONENTS & CLADDING PRESSURES ABOVE ARE WORST CASE PRESSURES BASED ON 10 SF TRIBUTARY AREA AND MAY BE REDUCED PER ASCE 7. POSITIVE AND NEGATIVE PRESSURES SIGNIFY WIND ACTING TOWARD AND AWAY FROM SURFACES, RESPECTIVELY.
- FOUNDATION DESIGN CRITERIA:
BEARING PRESSURES:
DL + LL 2500 PSF
TOTAL LOAD 3325 PSF
- SEISMIC JOINT BETWEEN NEW BUILDING AND (E) BUILDING SHALL HAVE A MINIMUM MOVEMENT CAPABILITY IN ANY DIRECTION AS SHOWN BELOW:
ROOF: 6"
- SOLAR PANEL ALLOWANCE:
THE DESIGN HAS ACCOUNTED FOR FUTURE SOLAR PANELS TO BE LOCATED ON THE ROOFS. HOWEVER A DESIGN OF THE SOLAR PANEL SUPPORT STRUCTURE IS NOT INCLUDED IN THIS CONTRACT.

MAXIMUM SOLAR PANEL ALLOWANCE = 3 PSF

WIND ZONE MAP



PROJECT DESCRIPTION

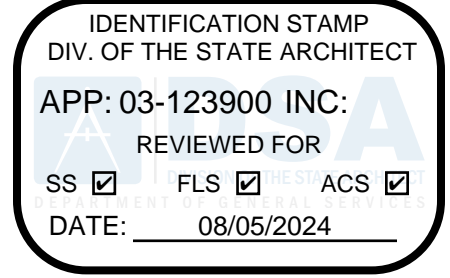
LEVELS:	SINGLE STORY
FOUNDATION:	CONTINUOUS GRADE BEAMS AND ISOLATED COLUMN FOUNDATIONS & CONCRETE SLAB ON GRADE
ROOF SYSTEM:	WOOD SHEATHING OVER LIGHT GAUGE METAL JOISTS
LATERAL FORCE RESISTING SYSTEM:	LIGHT GAUGE STUD WOOD SHEATHED SHEARWALLS
DIAPHRAGMS:	WOOD SHEATHING
CHORDS & COLLECTORS:	LIGHT GAUGE STEEL WALL TOP TRACK
MISC:	BUILDING IS SEISMICALLY SEPERATED FROM EXISTING STRUCTURE

GENERAL NOTES

- CONSIDER GENERAL NOTES AS APPLYING TO ALL DRAWINGS.
- DO NOT SCALE DRAWINGS. SCALE SHOWN FOR REFERENCE ONLY.
- THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL, AND MEP CONTRACT DOCUMENTS, AS WELL AS ANY OTHER APPLICABLE TRADES. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED PRIOR TO BIDDING AND PROCEEDING WITH THE WORK.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS REQUIRED TO COMPLETE THE PROJECT. NO PORTION OF THE STRUCTURE SHALL BE CONSIDERED TO BE SELF SUPPORTING UNTIL THE ENTIRE VERTICAL AND LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
- THE CONTRACTOR SHALL PROTECT AND SHORE ALL EXCAVATIONS WITH BRACING AND SHORING AS REQUIRED TO MAINTAIN SOIL STABILITY.
- CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN, IN MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.
- CENTERLINES OF COLUMNS AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, U.N.O.
- CENTERLINES OF FOUNDATION GRADE BEAMS COINCIDE WITH CENTERLINES OF WALLS, U.N.O.
- CENTERLINES OF FRAMING MEMBERS COINCIDE WITH COLUMN CENTERLINES, U.N.O.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING PROPOSED FOUNDATION CONSTRUCTION JOINT LOCATIONS, DETAILS, AND THE PLACEMENT SEQUENCE FOR THE STRUCTURAL ENGINEER'S APPROVAL PRIOR TO PROCEEDING WITH WORK.
- NO CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TYPICAL, U.N.O.

SHEET INDEX

S0.01	MATERIALS DATA & PROJECT INFORMATION
S0.02	TESTING & SPECIAL INSPECTION
S1.01	TYPICAL DETAILS No. 1
S1.02	TYPICAL DETAILS No. 2
S1.03	TYPICAL DETAILS No. 3
S1.04	TYPICAL DETAILS No. 4
S1.05	TYPICAL DETAILS No. 5
S1.06	TYPICAL DETAILS No. 6
S1.07	TYPICAL DETAILS No. 7
S1.08	TYPICAL DETAILS No. 8
S2.01	FOUNDATION PLAN
S2.02	ROOF FRAMING PLAN
S3.01	BUILDING SECTIONS
S4.01	FOUNDATION DETAILS
S4.02	ROOF FRAMING DETAILS



Owner:



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER ST,
BAKERSFIELD, CA 93305

Project Name:

TRANSITIONAL KINDERGARTEN

Project Address:

MLK ELEMENTARY SCHOOL

1100 CITADEL
BAKERSFIELD, CA93307



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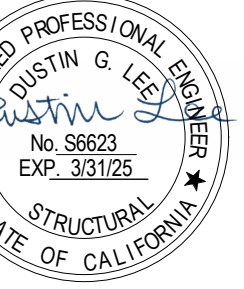
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FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
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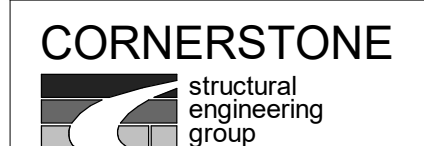
MATERIALS DATA & PROJECT INFORMATION

Job No.:

5593

Sheet No.:

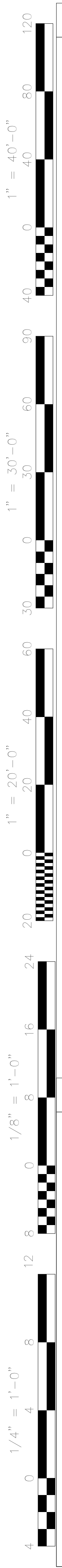
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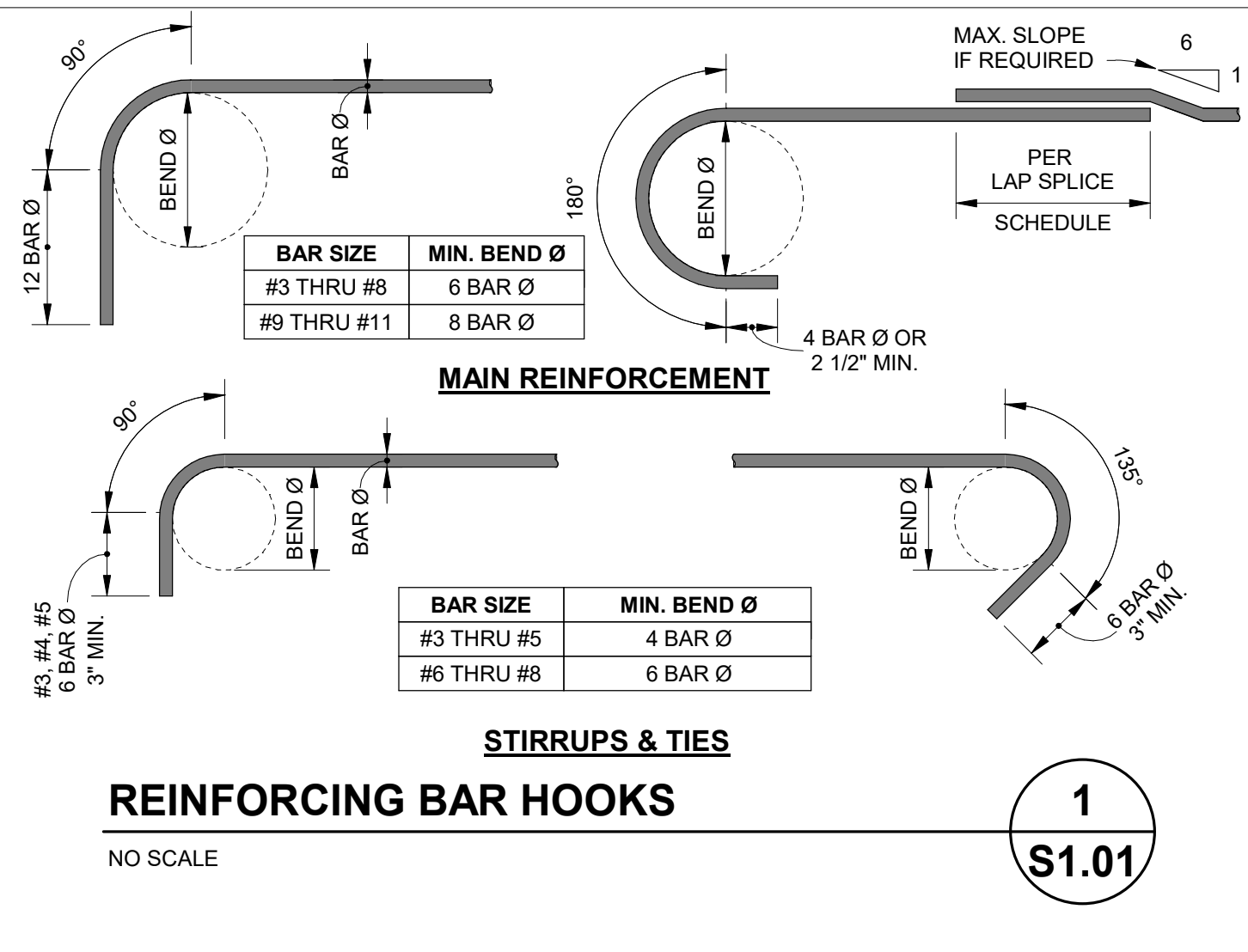
986 W. Alameda, Suite 201
Fresno, California 93711
559.320.3200
fax 559.320.3201

Release: DSA SUBMITTAL

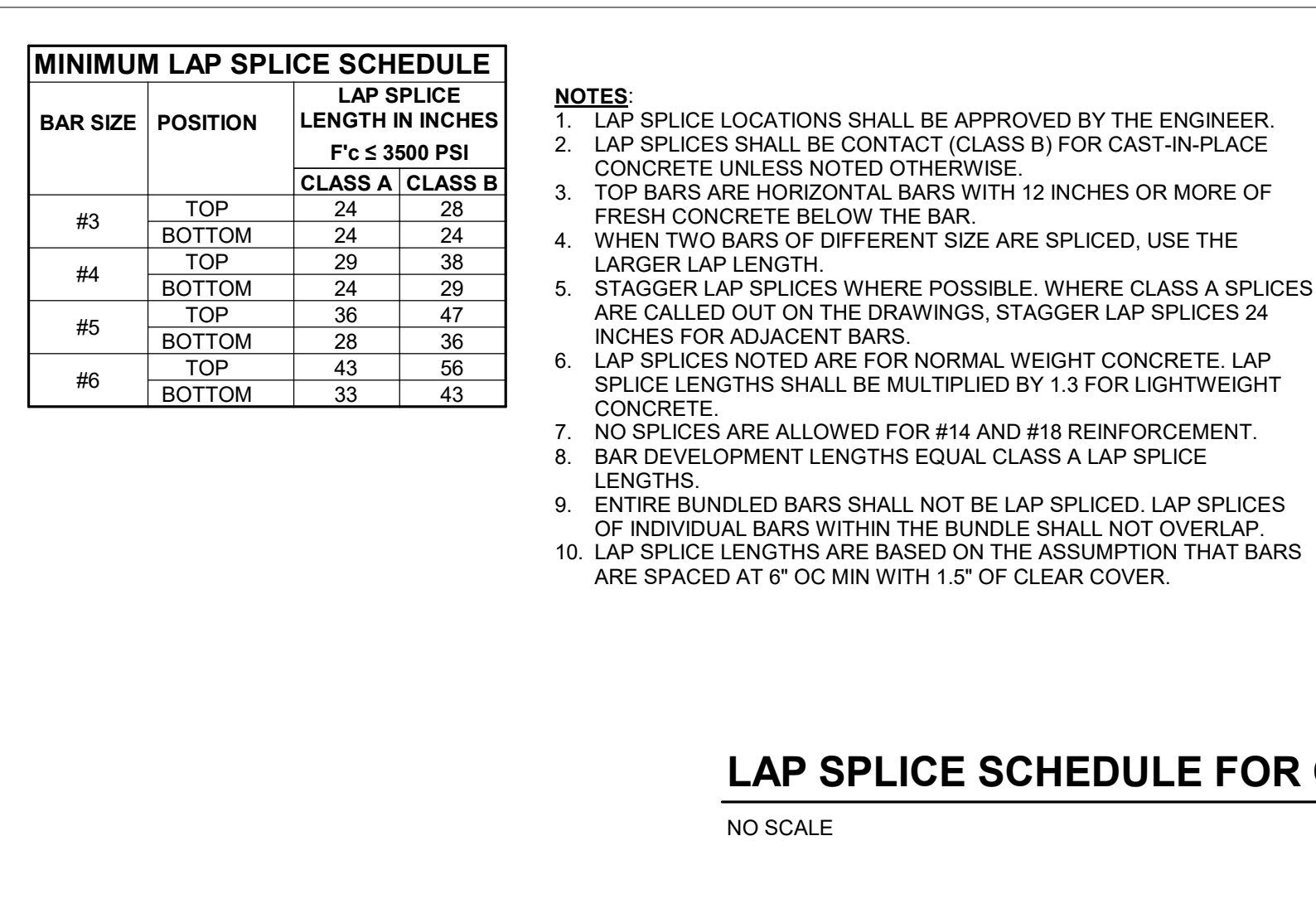
Date: 01-09-24



1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1" = 1'-0"
1/8" = 1'-0"
1/4" = 1'-0"



1
S1.01



2
S1.01

MINIMUM CONCRETE COVER SCHEDULE

ELEMENT	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER	1 1/2"
#6 AND LARGER	2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS & JOISTS: #11 AND SMALLER	3/4"
#14 AND #18	1 1/2"
BEAMS & COLUMNS	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, & SPIRALS	1 1/2"
SHELLS & FOLDED PLATE MEMBERS	
#5 AND SMALLER	1/2"
#6 AND LARGER	3/4"

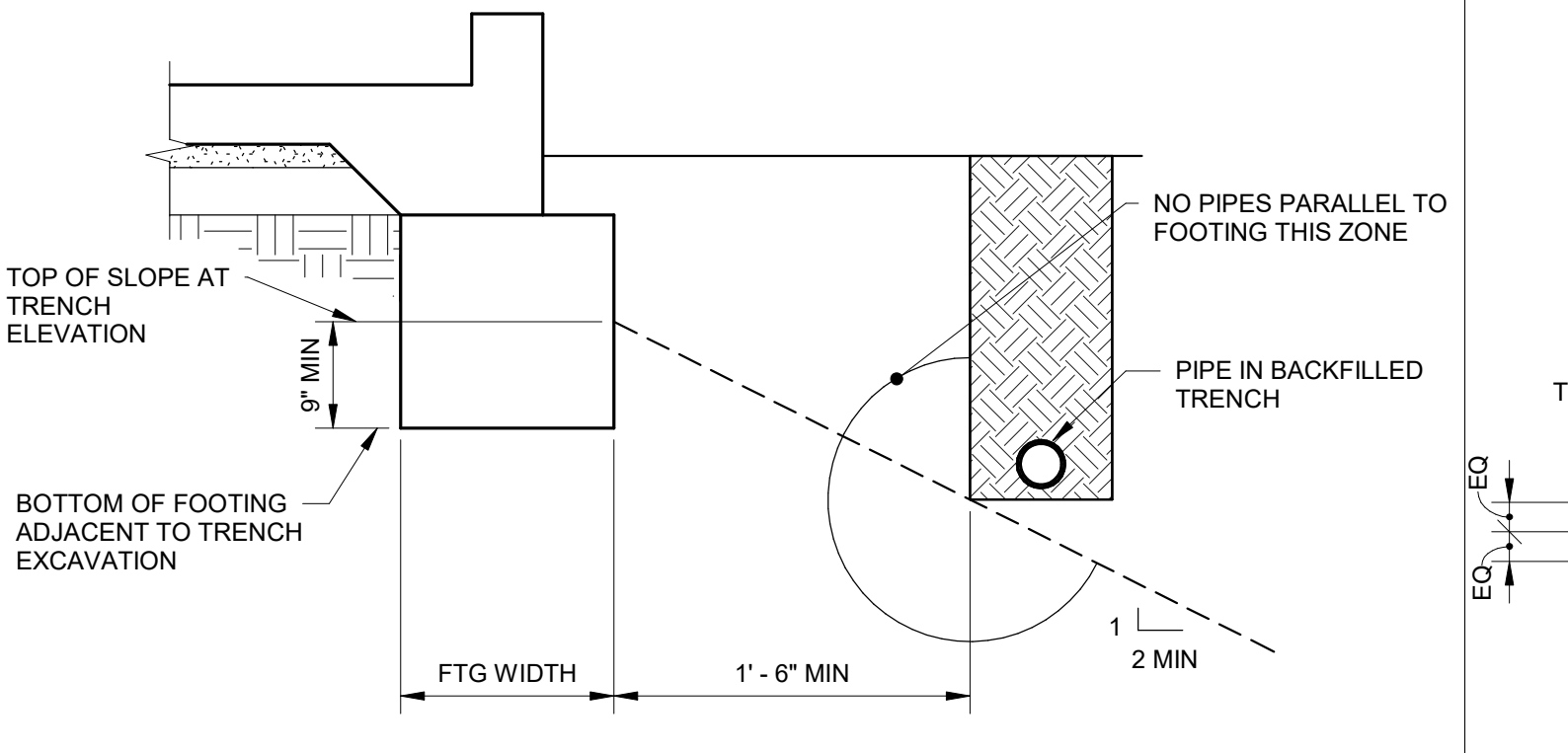
NOTES:

- COVERS NOTED SHALL BE USED UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS.
- COVERS NOTED ARE FOR CAST-IN-PLACE, NON-PRESTRESSED MEMBERS. MINIMUM CLEAR COVER FOR BUNDLED BARS SHALL BE THE LESSER OF THE EQUIVALENT DIAMETER OF THE BUNDLE AND 2".
-

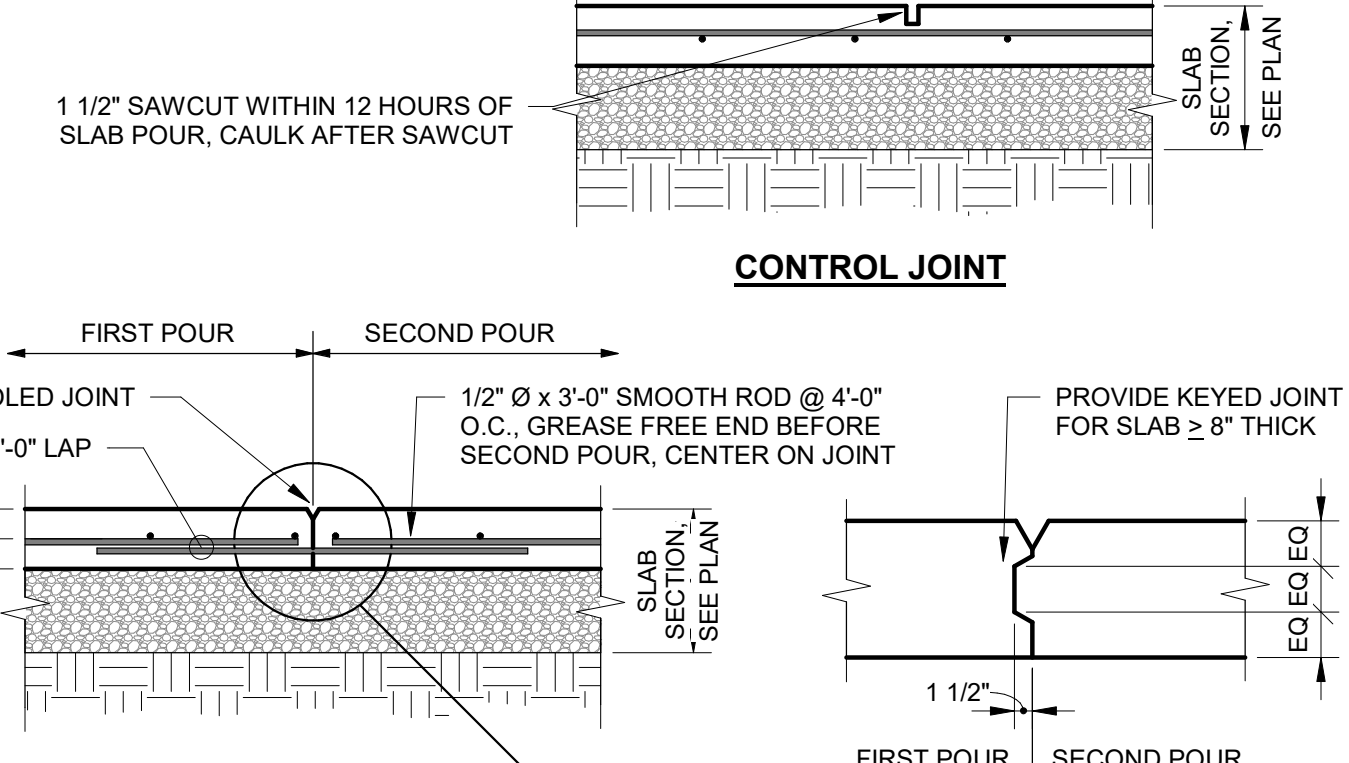
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NO SCALE

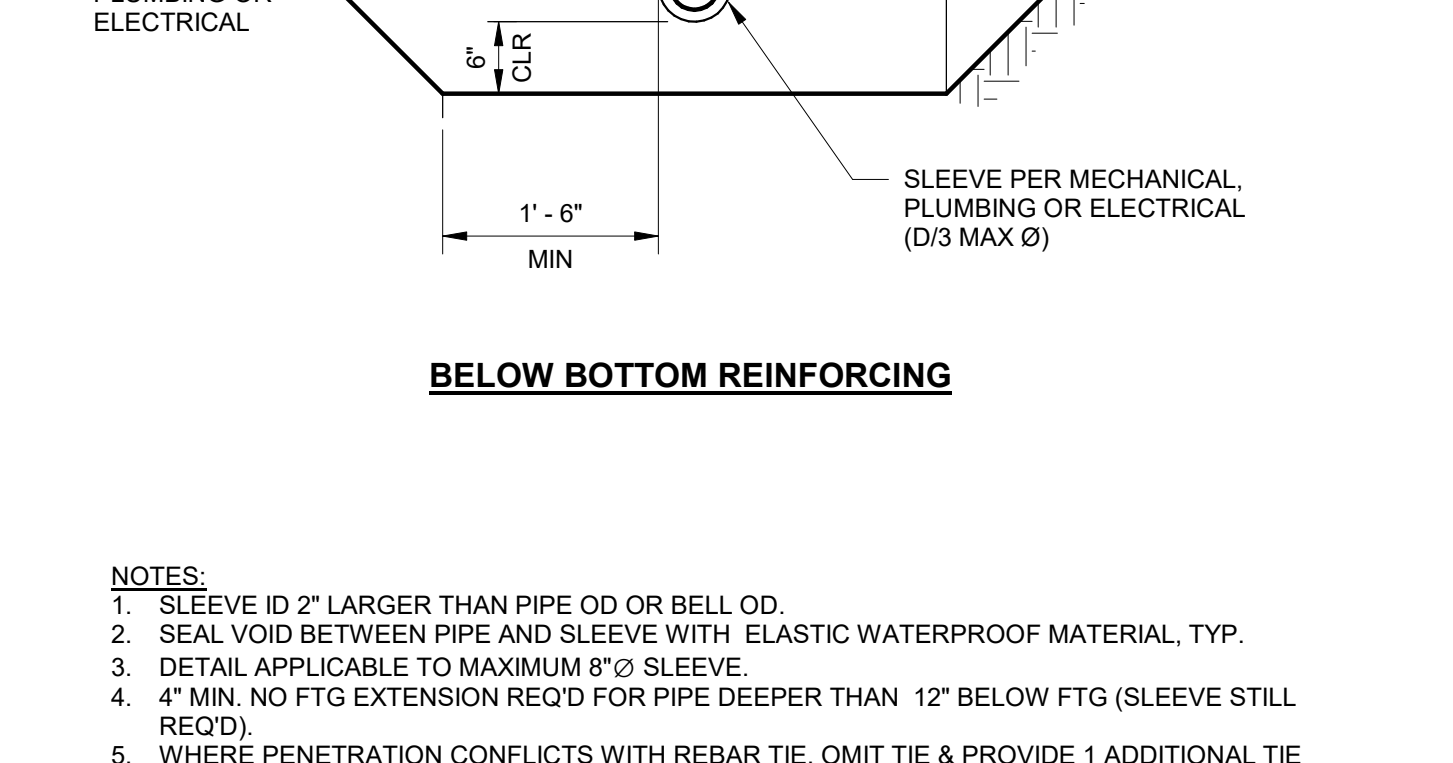
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S1.01



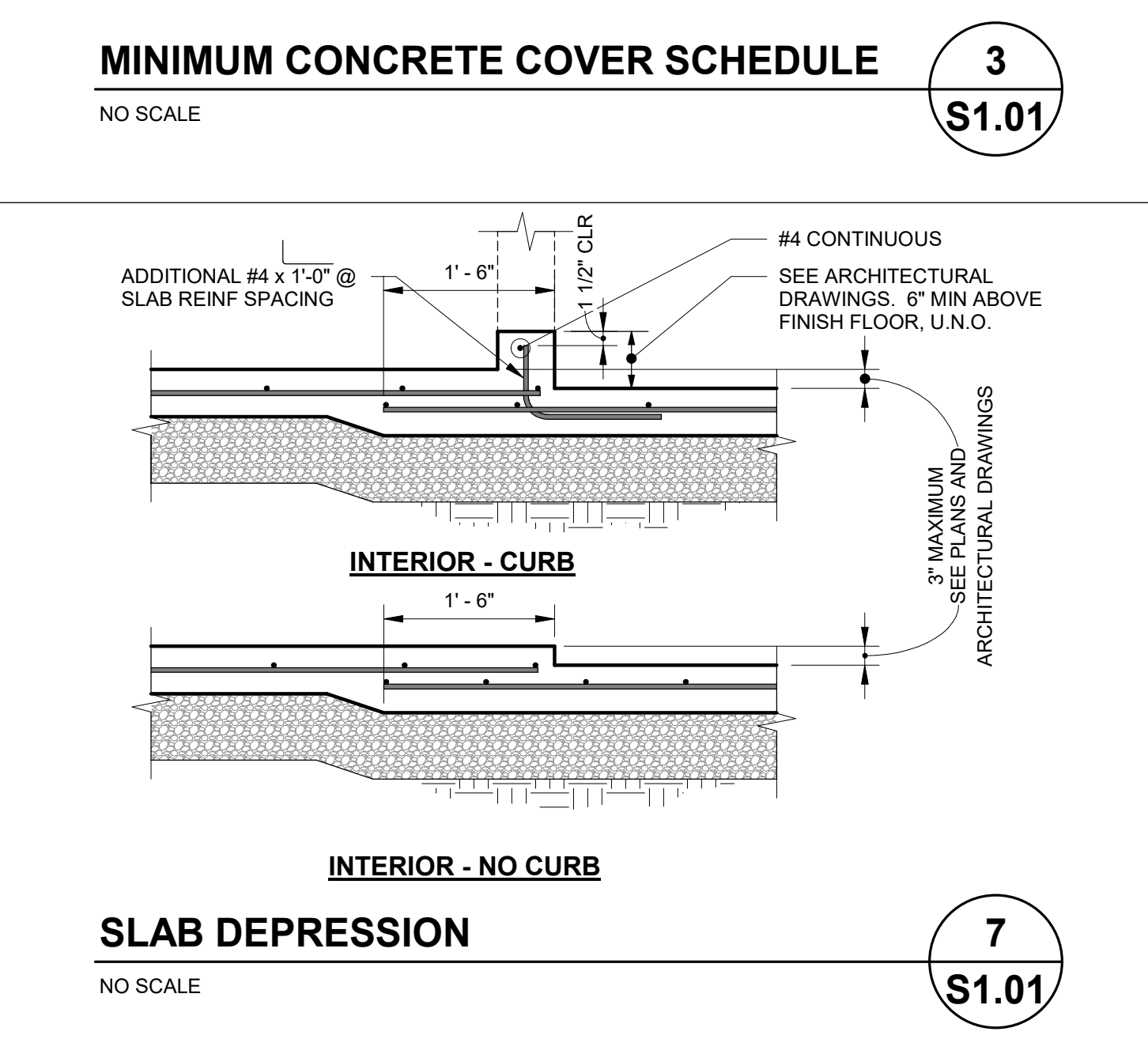
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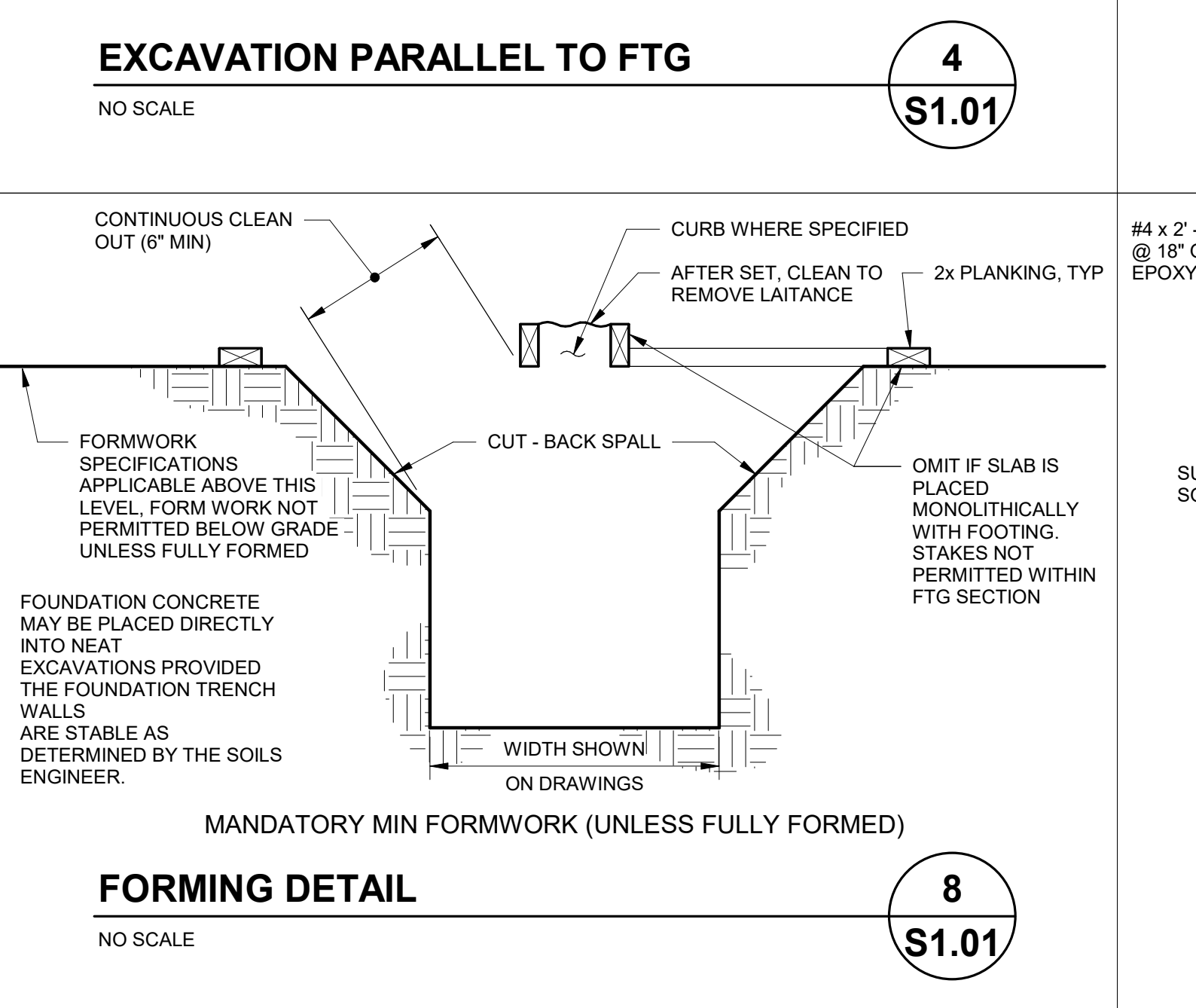
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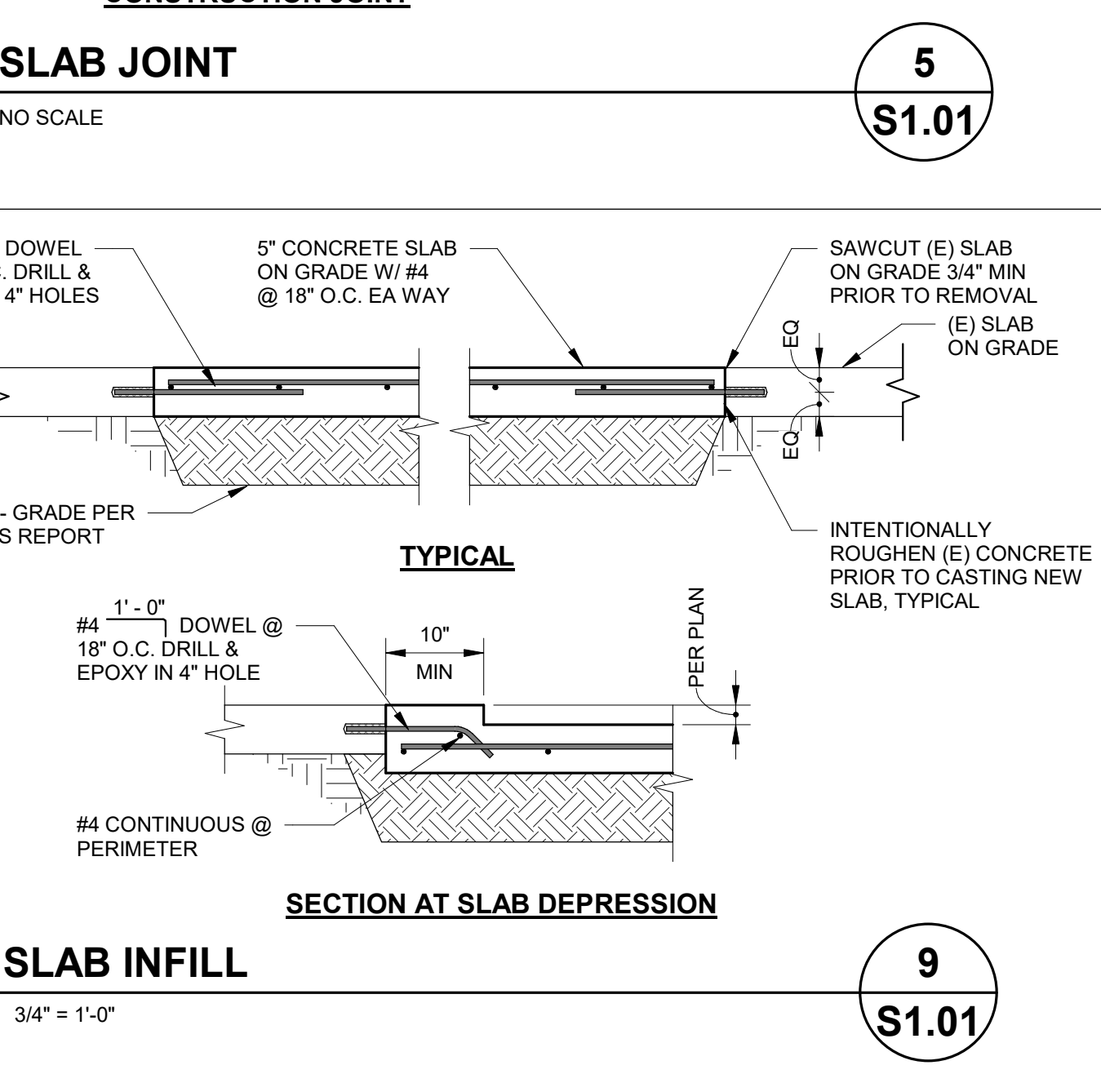
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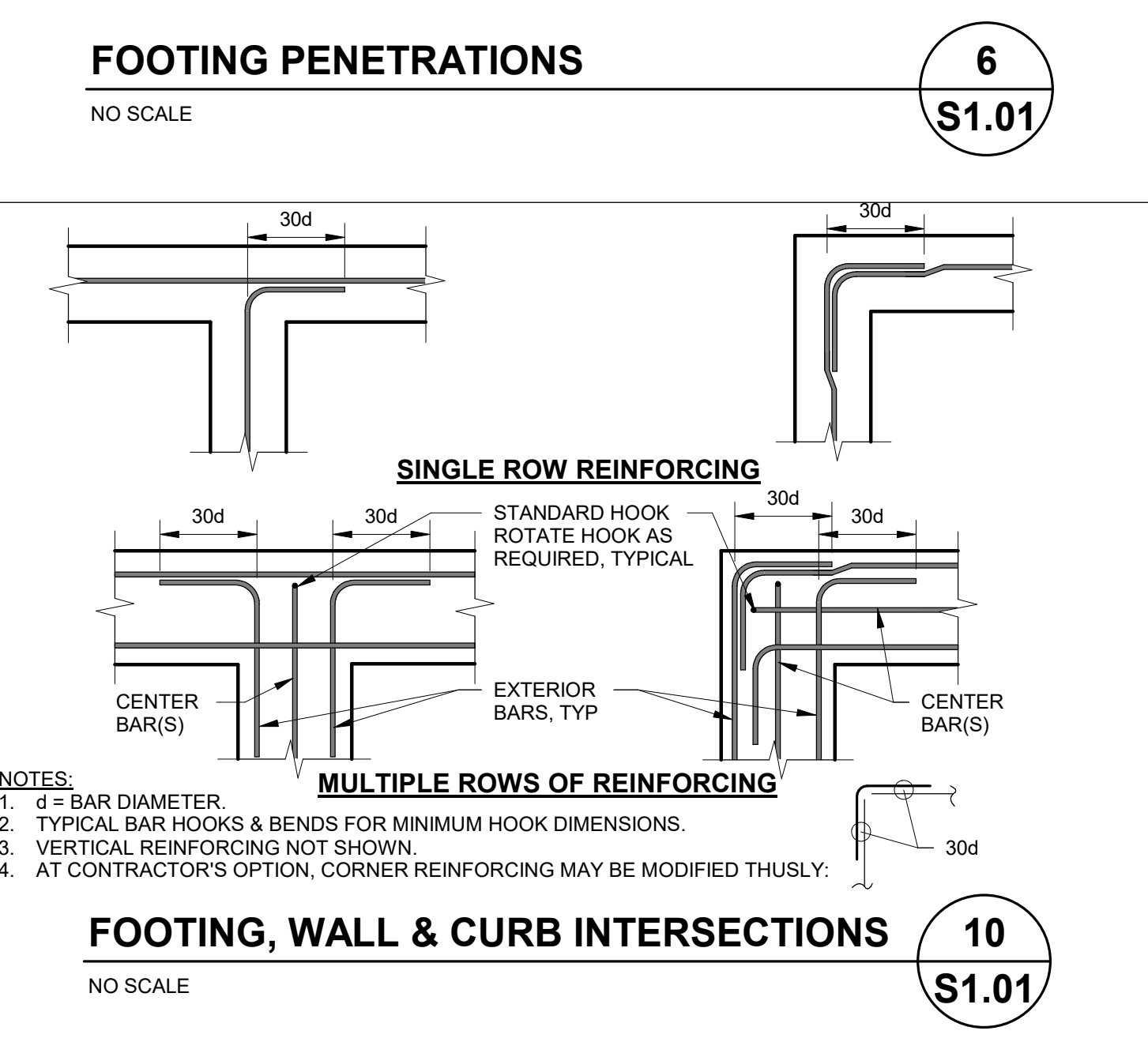
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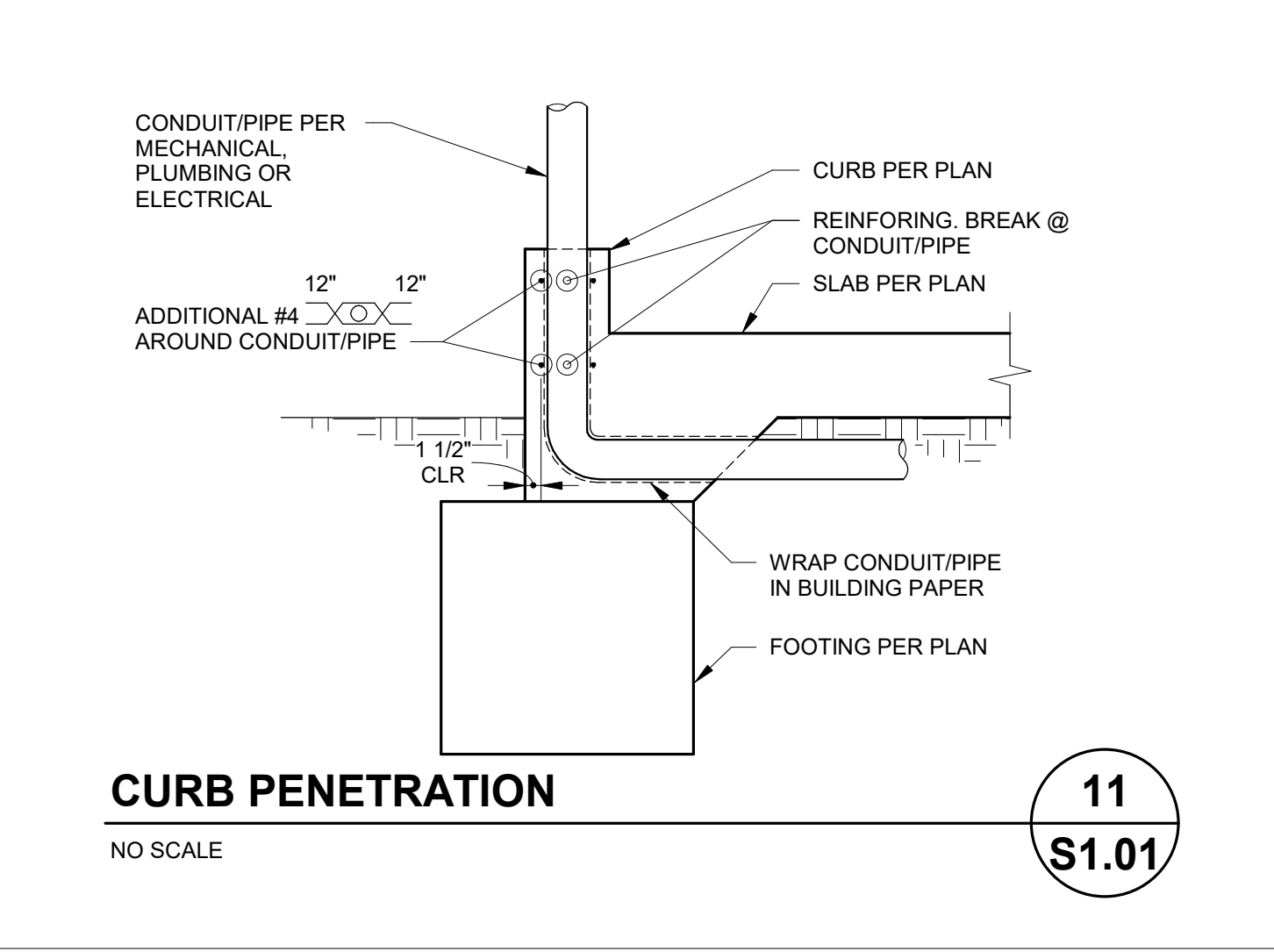
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S1.01



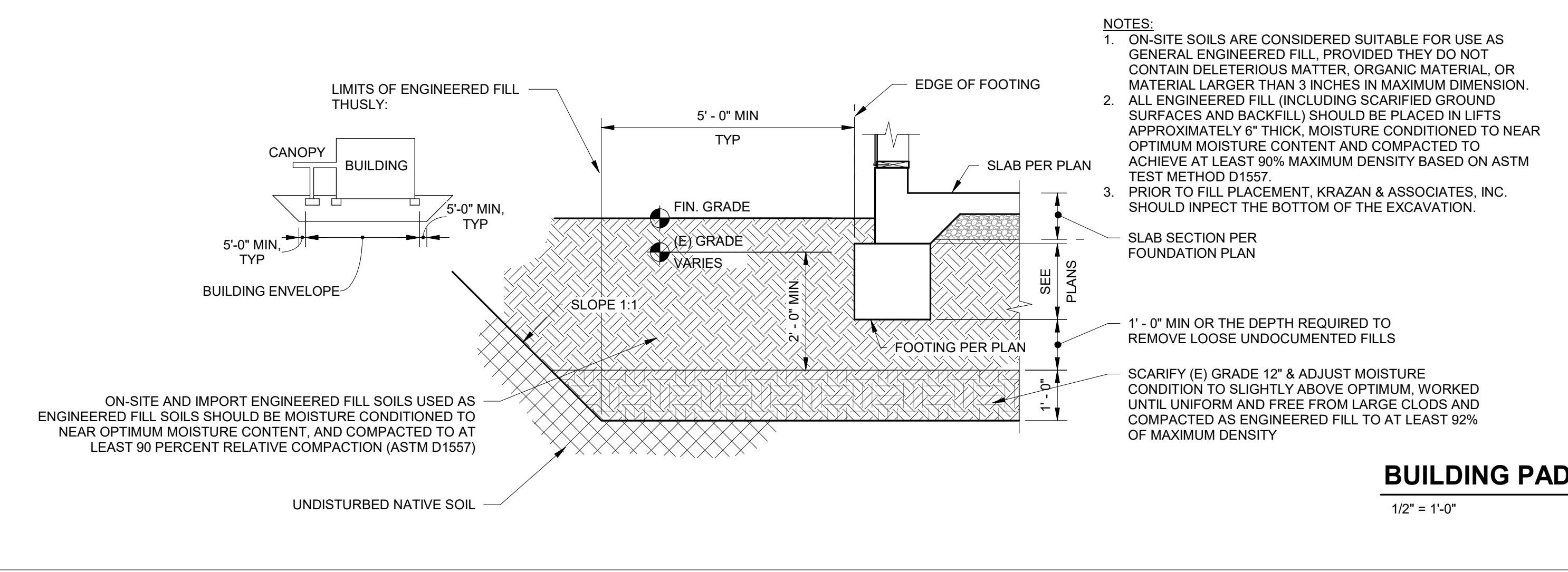
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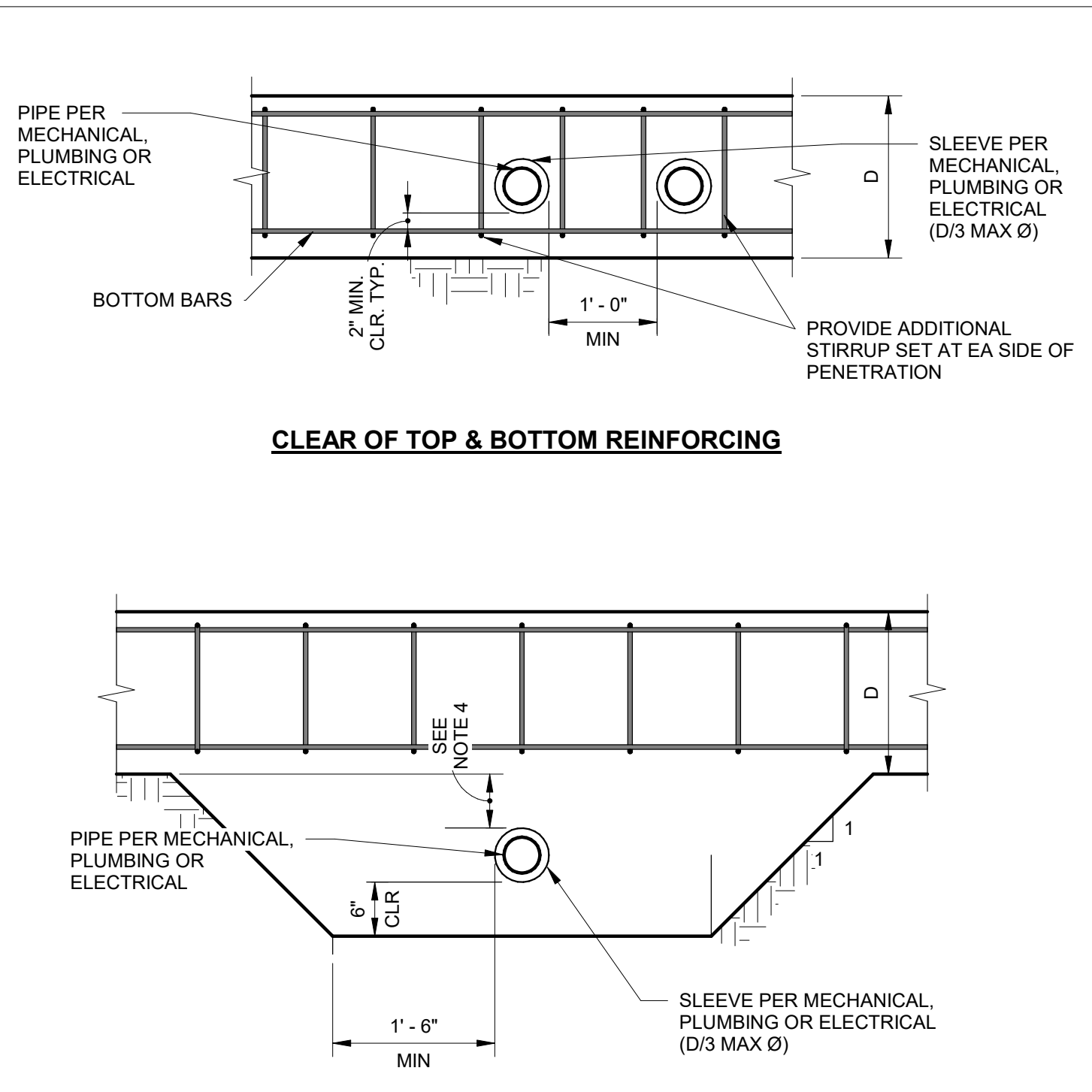
10
S1.01



11
S1.01



12
S1.01



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APP: 03-123900 INC:
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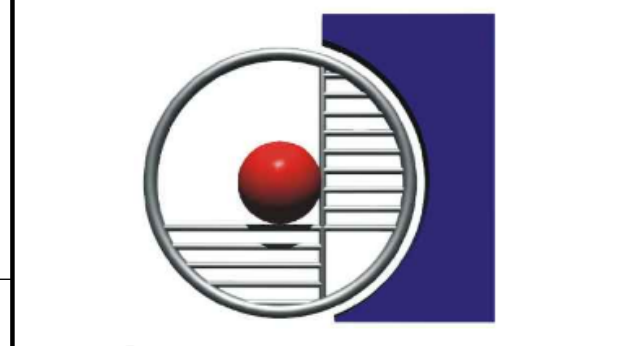
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BAKERSFIELD, CA 93305

Project Name:
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Project Address:
MLK ELEMENTARY SCHOOL

1100 CITADEL
BAKERSFIELD, CA93307

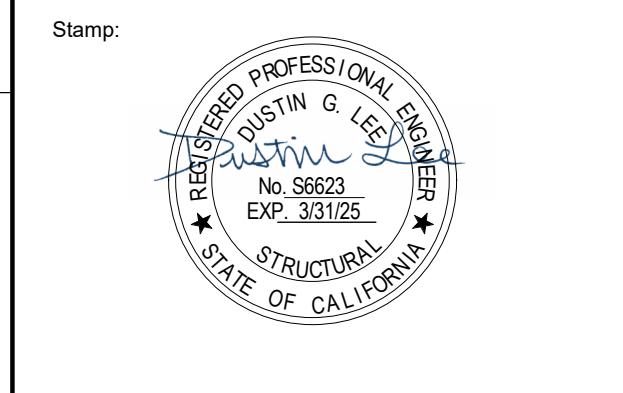


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Sheet Title:
TYPICAL DETAILS No. 1

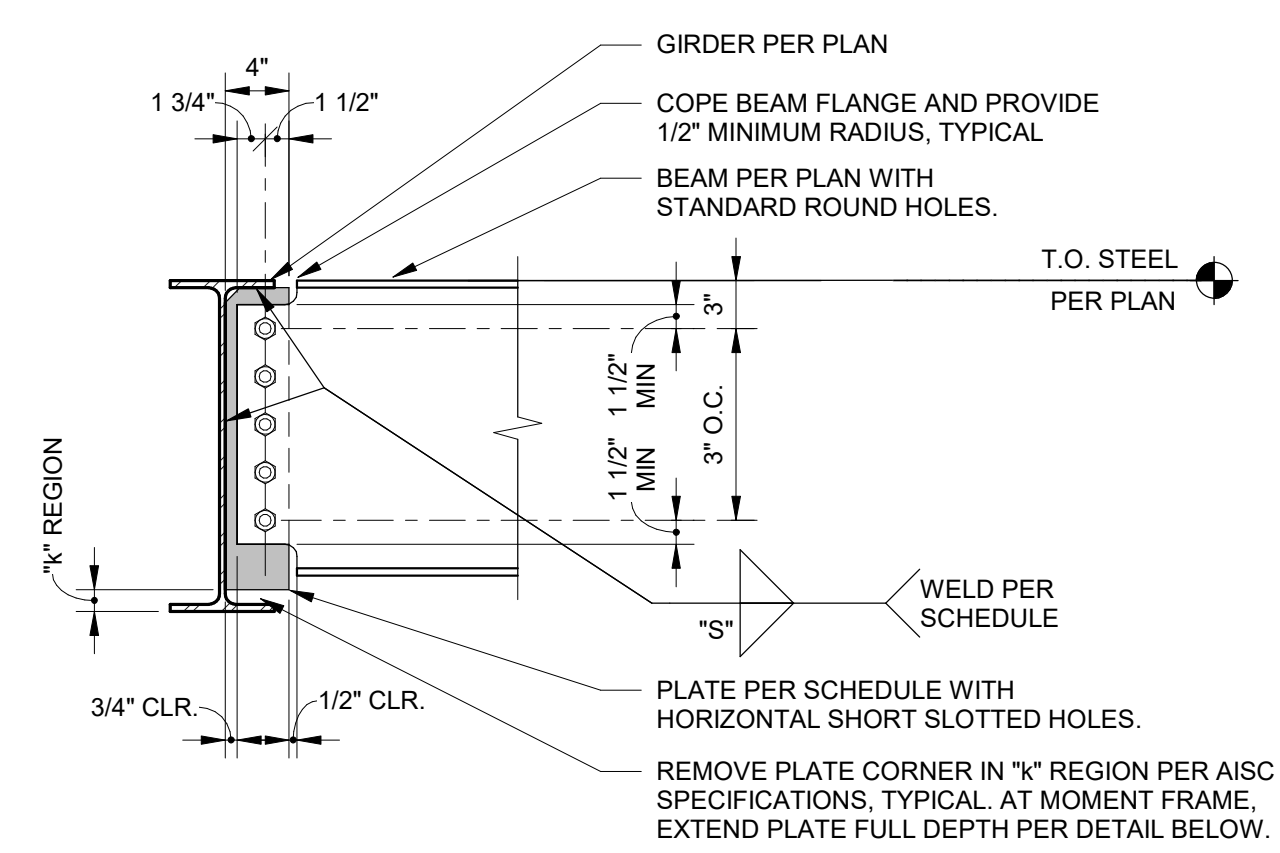
Job No.:
5593

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S1.01

CORNERSTONE
structural engineering group
986 W. Alhambra, Suite 201
Fresno, California 93711
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fax 559.320.3201

Release: DSA SUBMITTAL Date: 01-09-24

1" = 40'-0"
 1" = 30'-0"
 1" = 20'-0"
 1" = 1'-0"
 1/8" = 1'-0"
 1/4" = 1'-0"



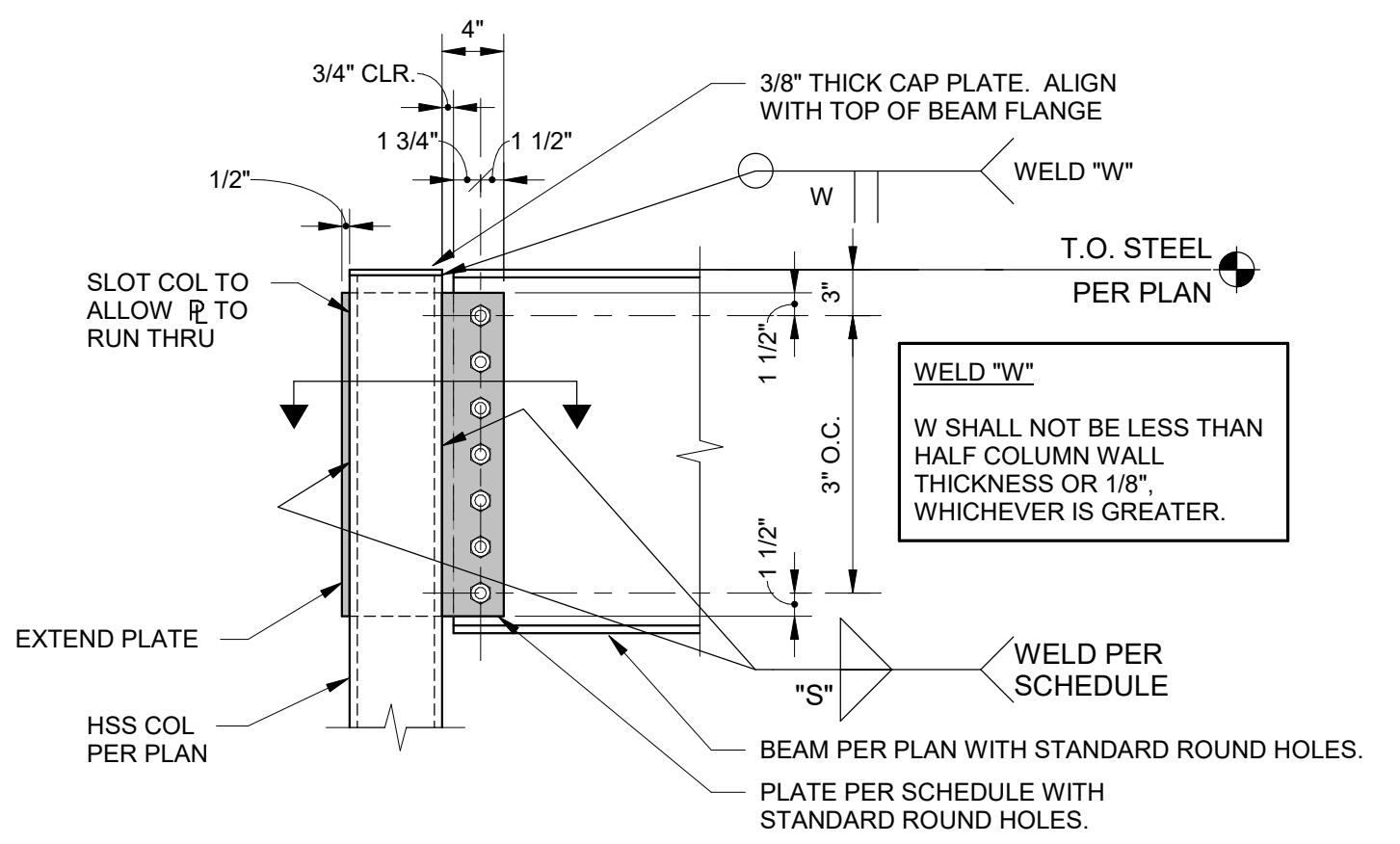
BEAM SIZE	PLATE (2)		WELD SIZE "S"	BOLTS (2)
	MIN. DEPTH	THICKNESS		
W8x, C8x	6"	3/8"	5/16	(2) 3/4"Ø

- NOTES:**
- FOR SINGLE COLUMN OF BOLTS, UNLESS NOTED OTHERWISE.
 - ALL BOLTS SHALL BE A307 AND ORIENTED IN THE SAME DIRECTION, UNLESS NOTED OTHERWISE.
 - STEEL PLATE SHALL BE ASTM A36, UNLESS NOTED OTHERWISE.
 - COPE FLANGES OR LOCATE TAB PLATE TO BE 1/16" MIN. CLEAR OF "K" PER AISC SPECIFICATIONS.

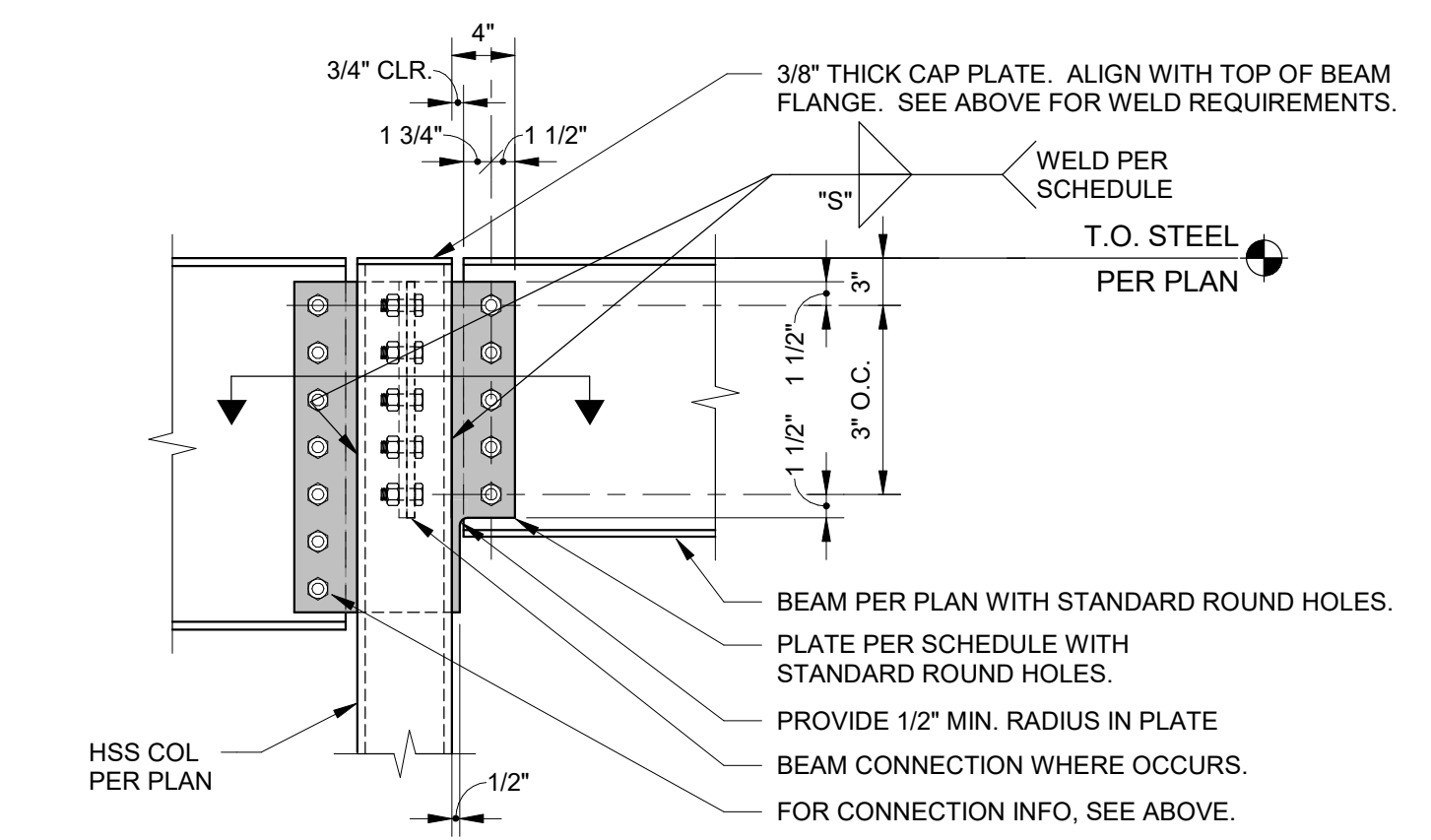
BEAM CONNECTION

NO SCALE

1
S1.02



WIDE FLANGE BEAM TO HSS/PIPE COLUMN - ONE SIDE

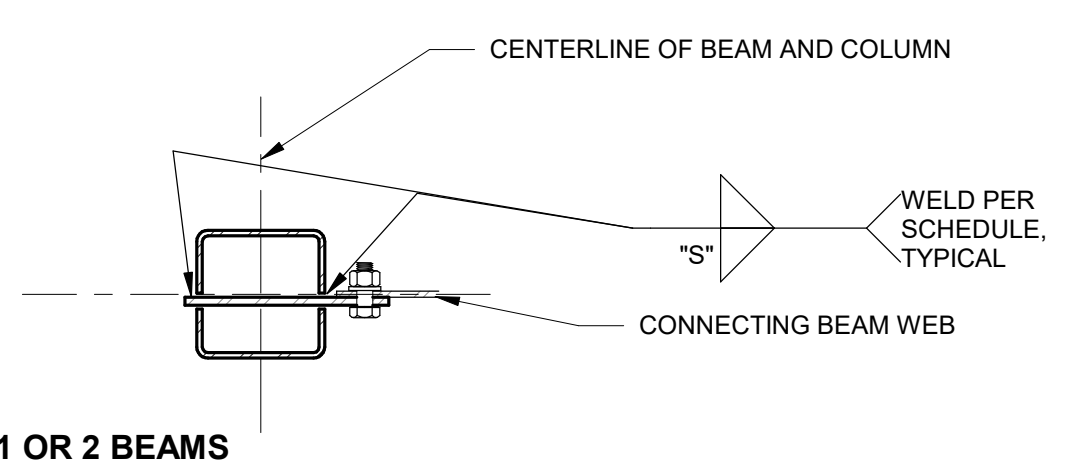


WIDE FLANGE BEAM TO HSS/PIPE COLUMN - EACH SIDE

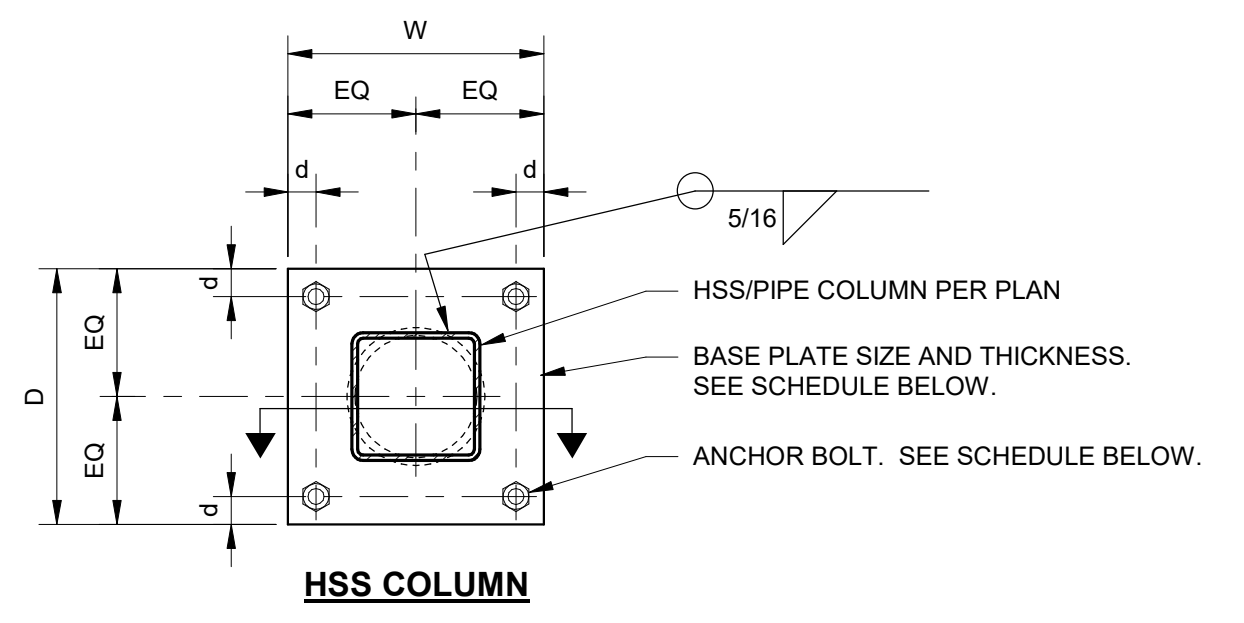
BEAM TO HSS/PIPE COLUMN

NO SCALE

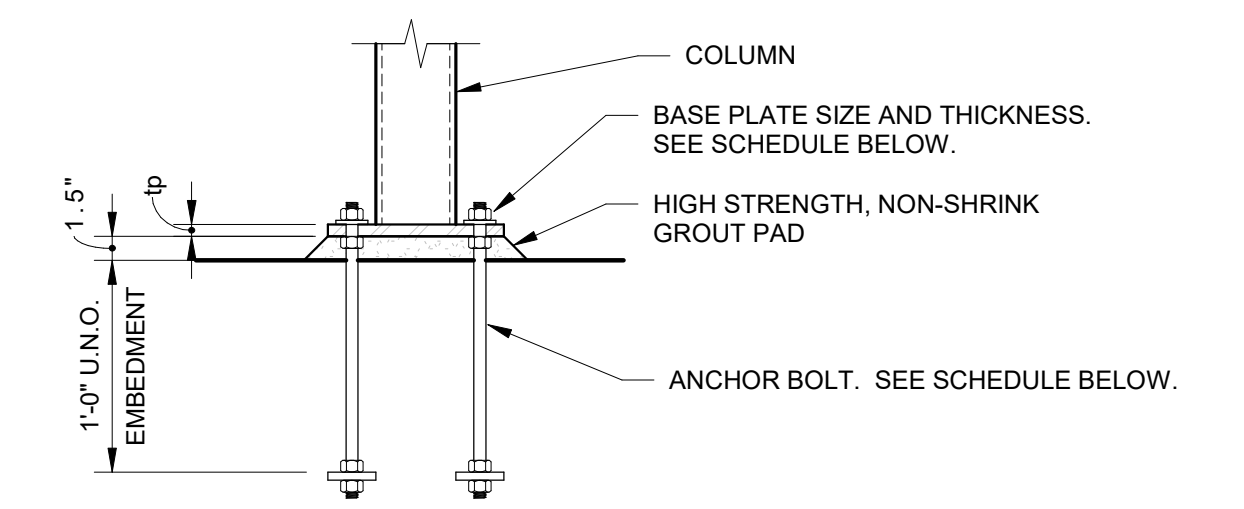
2
S1.02



SECTION - MULTIPLE BEAM TO COLUMN



HSS COLUMN



STEEL COLUMN PLATE SCHEDULE (2)

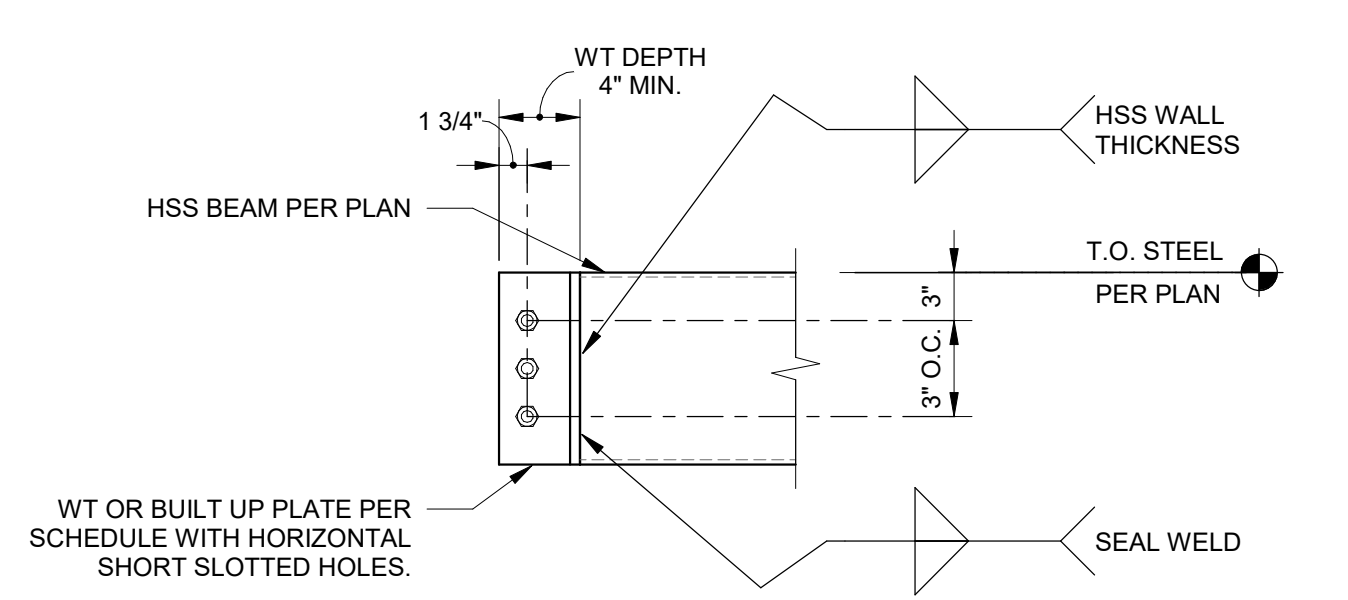
COLUMN	BASE PLATE				GRADE	ANCHOR BOLT (1)
	D	W	tp	d		
HSS4x	10"	10"	3/4"	1 1/2"	A36 (36KSI)	(4) 3/4"Ø
HSS5x	11"	11"	3/4"	1 1/2"	A36 (36KSI)	(4) 3/4"Ø
HSS6x	12"	12"	3/4"	1 1/2"	A36 (36KSI)	(4) 3/4"Ø

- NOTES:**
- FOR ADDITIONAL ANCHOR BOLT REQUIREMENTS, SEE DETAIL (6) S1.02
 - ALL BASE PLATE SHALL CONFORM TO THESE REQUIREMENTS UNLESS OTHERWISE NOTED.

BASE PLATE DETAIL

NO SCALE

3
S1.02



COLUMN CONNECTION

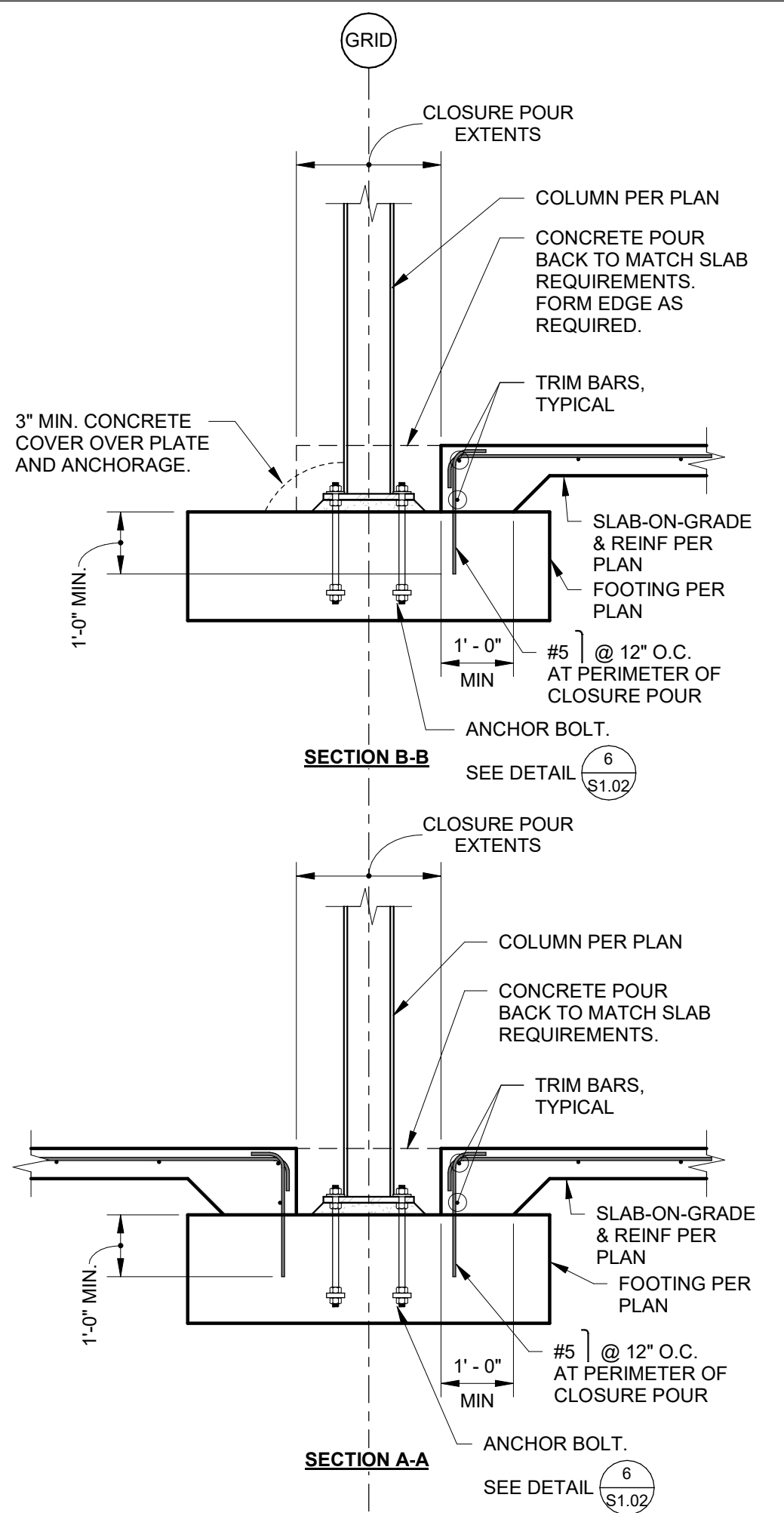
HSS WIDTH	CONNECTION SCHEDULE		
	WT OPTION	BUILT UP PLATE OPTION (2) (4)	
W ≤ 4"	WT4x14	3/8"	1/2"
4" < W ≤ 6"	WT4x20	3/8"	1/2"
6" < W ≤ 8"	WT5x27	3/8"	1/2"
W > 8"	-	1/2"	1/2"

- NOTES:**
- FOR BOLTING REQUIREMENTS, REFER TO DETAIL (1) S1.02
 - STEEL PLATE SHALL BE ASTM A36, UNLESS NOTED OTHERWISE.
 - CENTER TAB PLATE ON END PLATE. PROVIDE 5/16" FILLET WELD FROM TAB PLATE TO END PLATE, EACH SIDE.
 - REFER TO THE FOLLOWING DETAILS FOR ADDITIONAL CONNECTION INFORMATION:
 - A. FOR BEAM CONNECTION, SEE (1) S1.02
 - B. FOR HSS COLUMN CONNECTION, SEE (2) S1.02

BEAM CONNECTION

NO SCALE

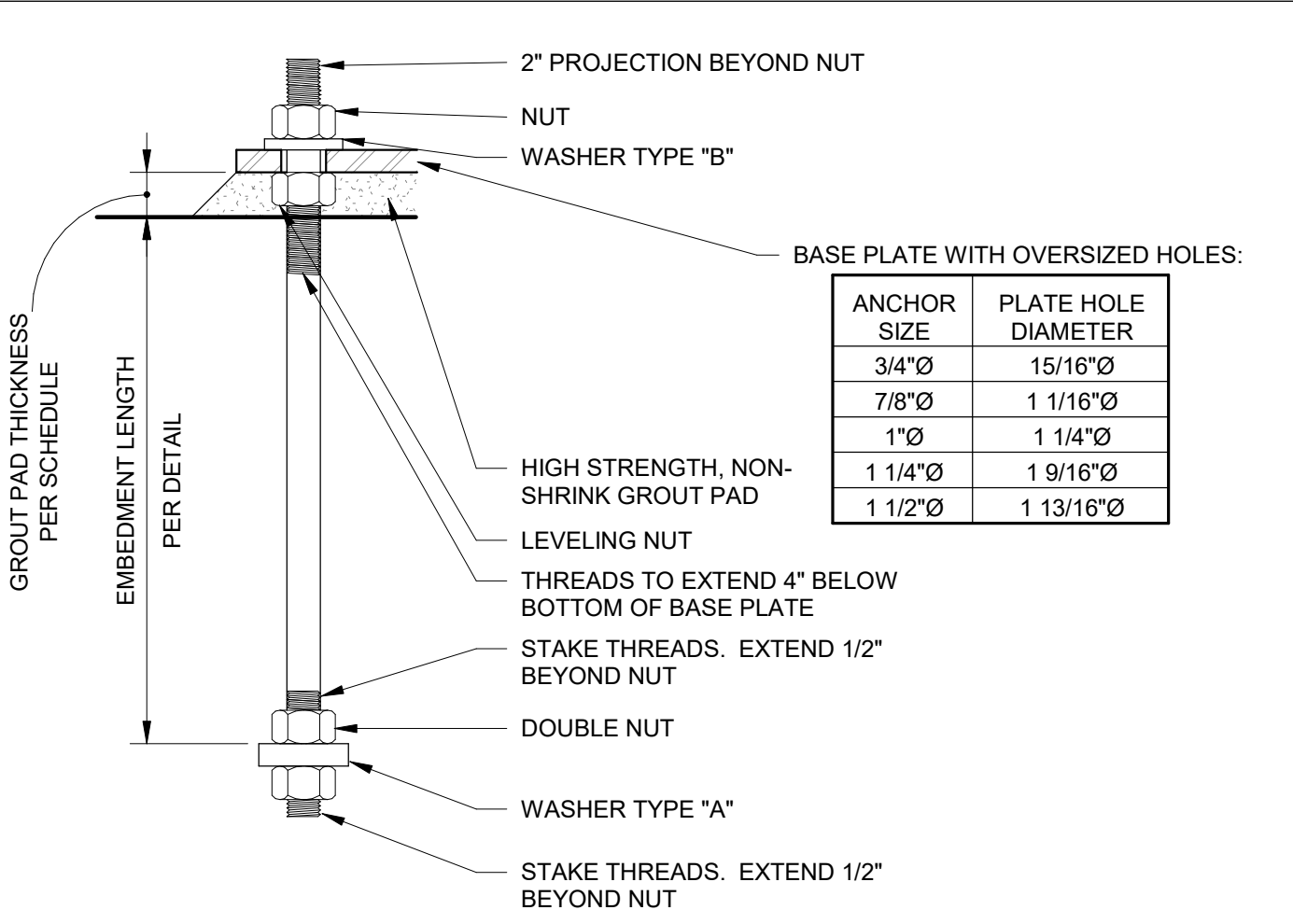
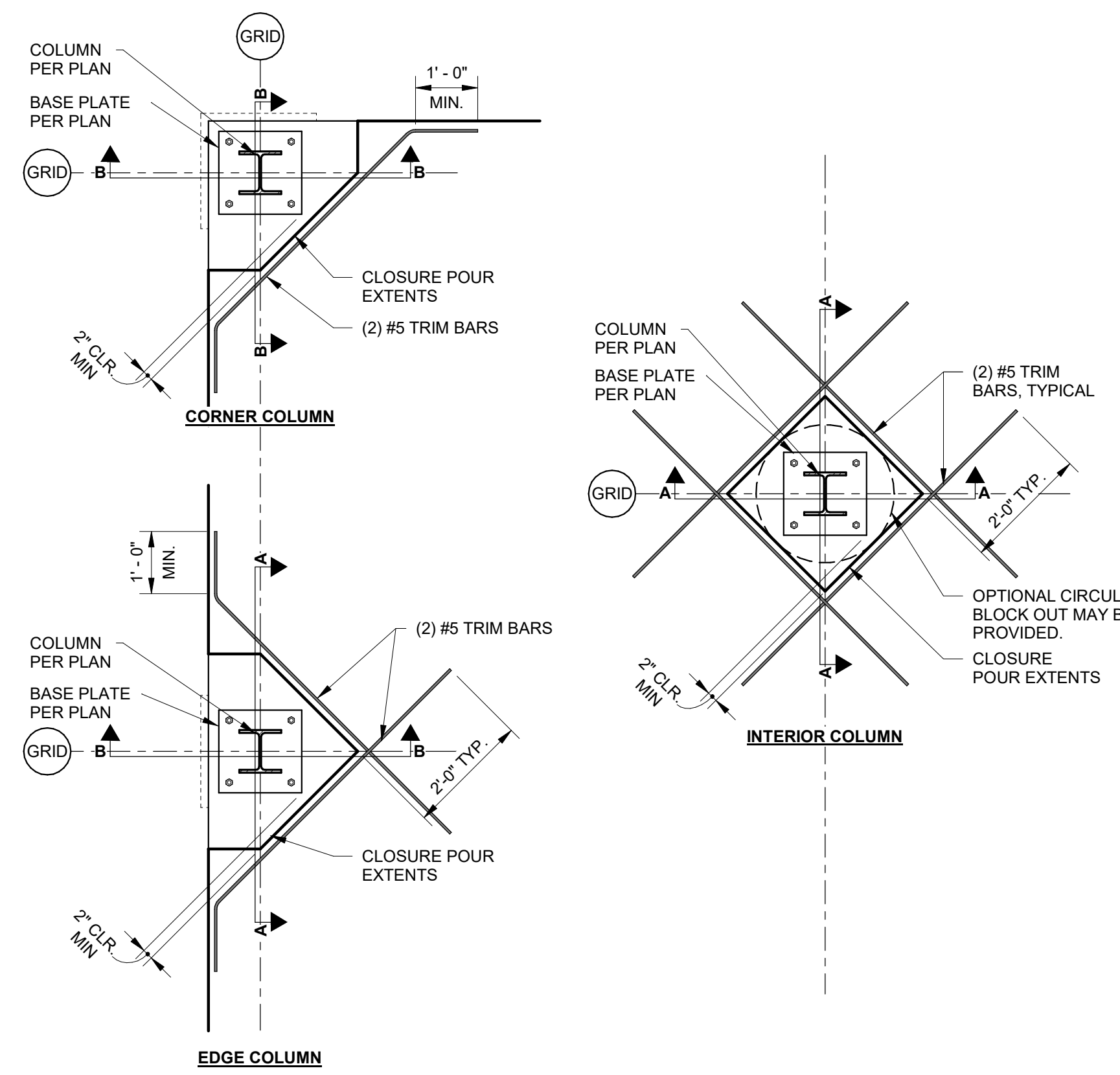
4
S1.02



CLOSURE POUR DETAIL

1/2" = 1'-0"

5
S1.02



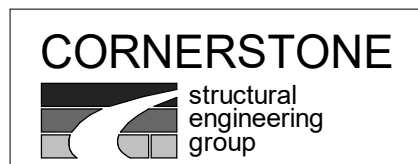
ANCHOR ROD SIZE	MATERIAL	TYPE	WASHER (1) SIZE	HEX NUT	GROUT PAD THICKNESS
3/4"Ø	F1554 GRADE 36	A	3"x1/2"x0-3" PLATE W/ 13/16"Ø HOLE CENTERED	ASTM A563	1.5"
		B (2)	2"x1/4" PLATE W/ 13/16"Ø HOLE CENTERED		
7/8"	F1554 GRADE 36	A	3"x3/4"x0-3" PLATE W/ 15/16"Ø HOLE CENTERED	ASTM A563	1.5"
		B (2)	2 1/2"x5/16" PLATE W/ 15/16"Ø HOLE CENTERED		
1"	F1554 GRADE 36	A	3"x3/4"x0-3" PLATE W/ 1 1/16"Ø HOLE CENTERED	ASTM A563	1.5"
		B (2)	3"x3/8" PLATE W/ 1 1/16"Ø HOLE CENTERED		

1. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.

ANCHOR BOLT

1 1/2" = 1'-0"

6
S1.02



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 Fresno, California 93711
 559.320.3200
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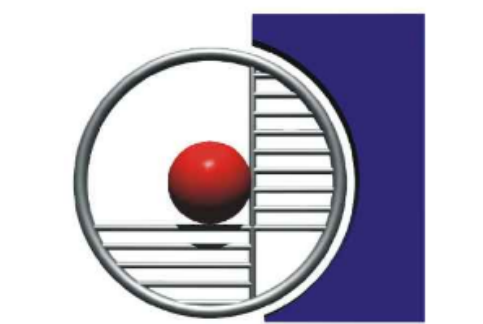
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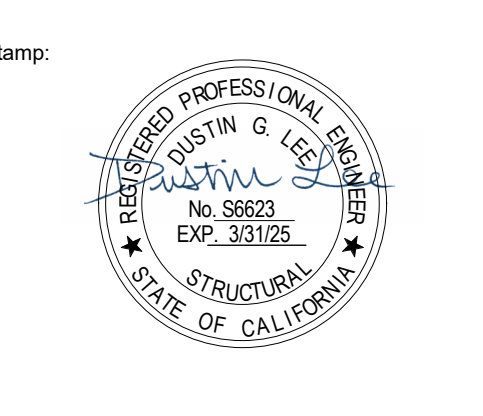
1100 CITADEL
 BAKERSFIELD, CA93307



ARCHITECTURE ENGINEERING INTERIOR DESIGN

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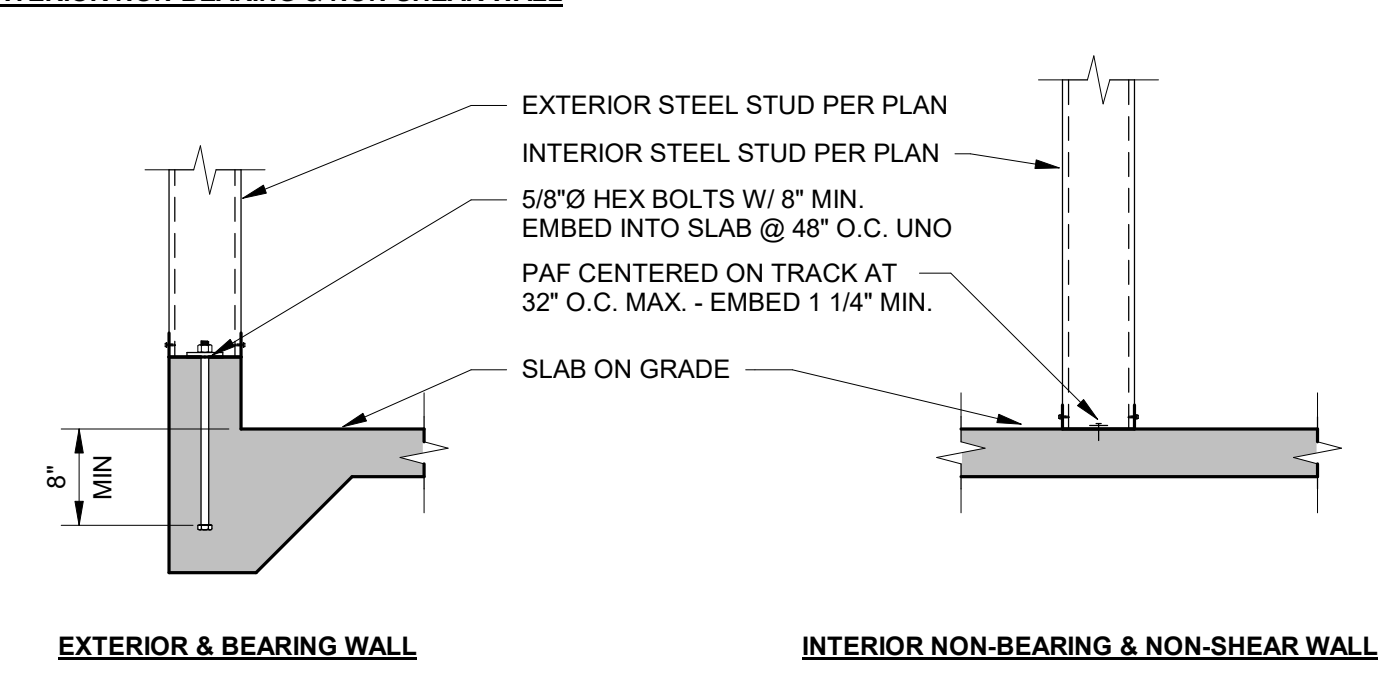
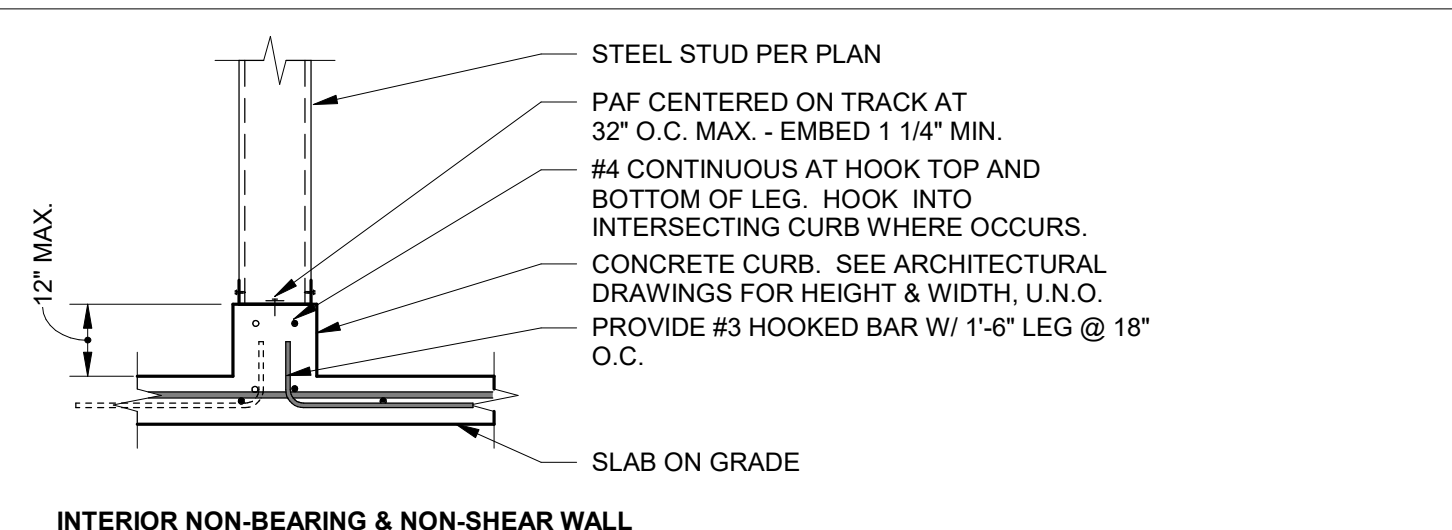
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Job No.: **5593**

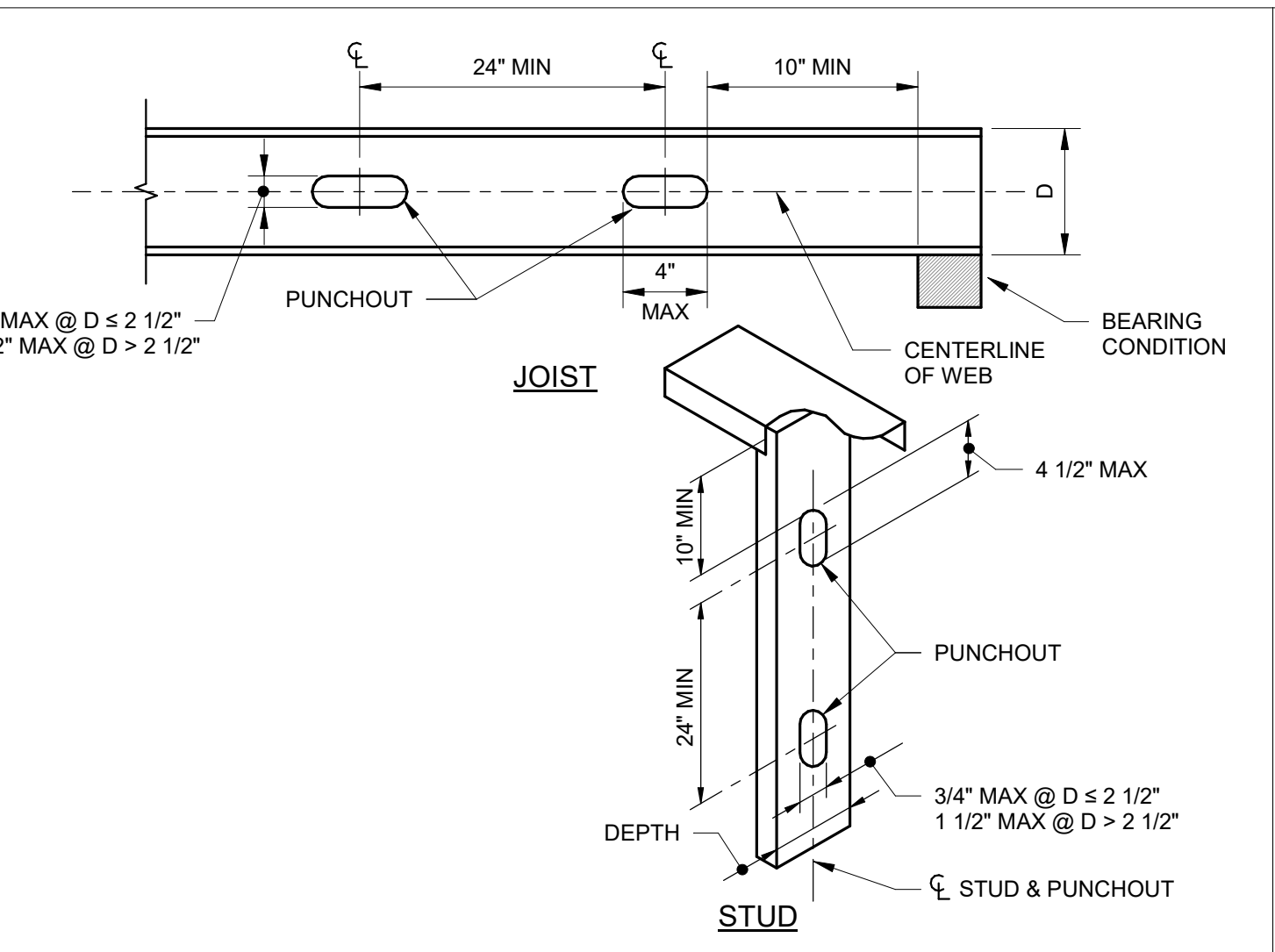
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Release: DSA SUBMITTAL Date: 01-09-24

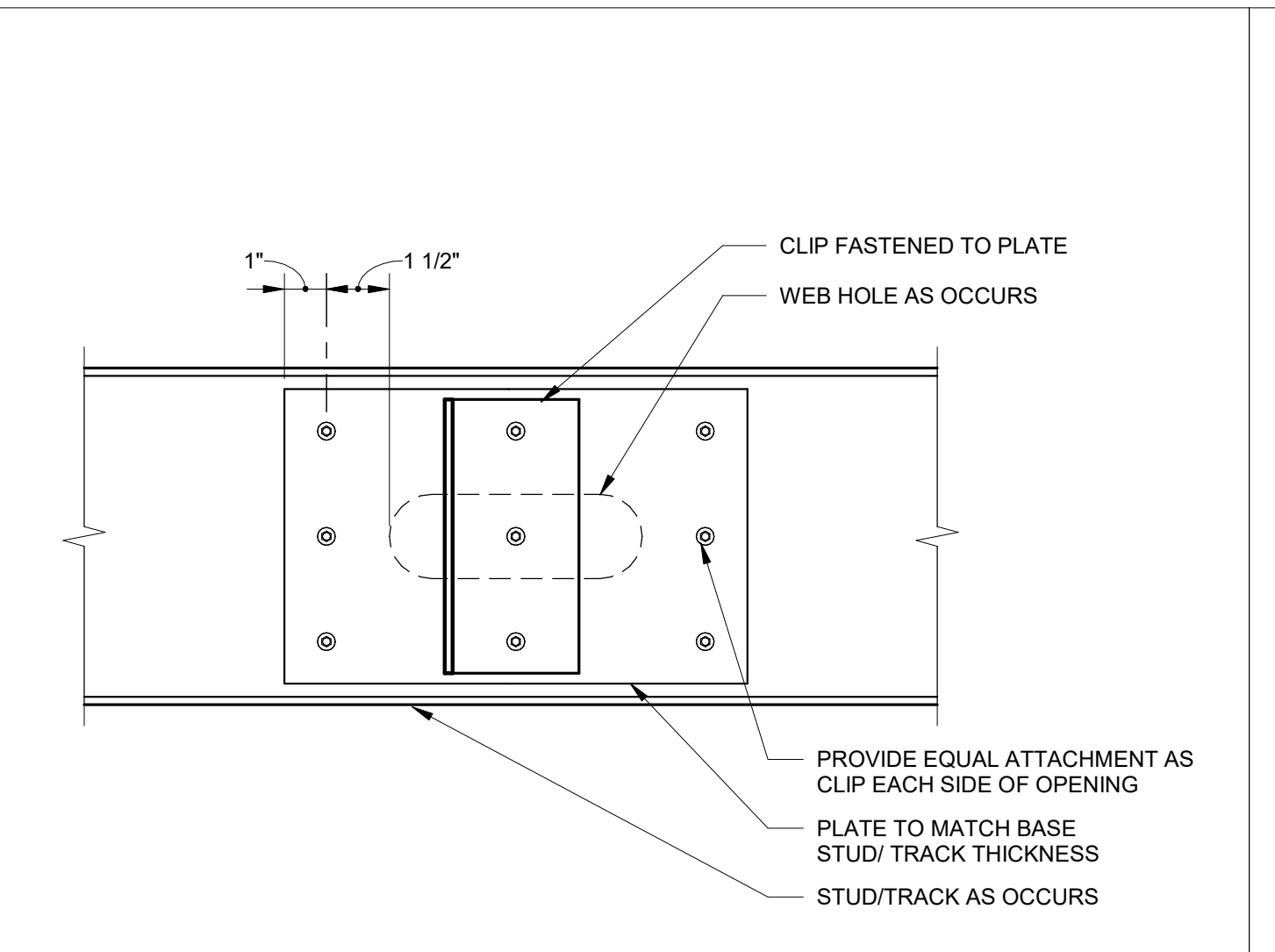
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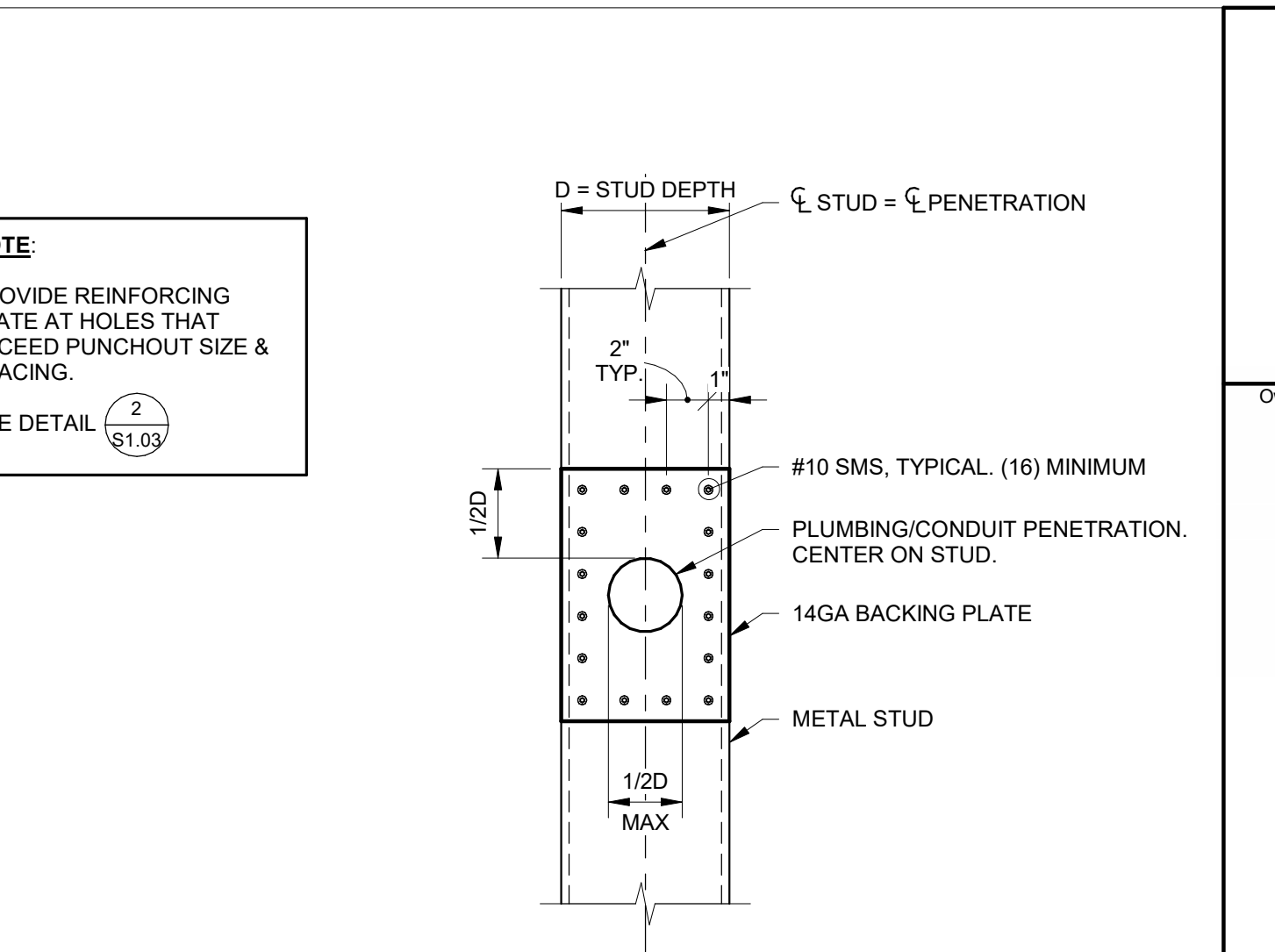
SILL CONNECTION - SLAB ON GRADE
NO SCALE
1
S1.03



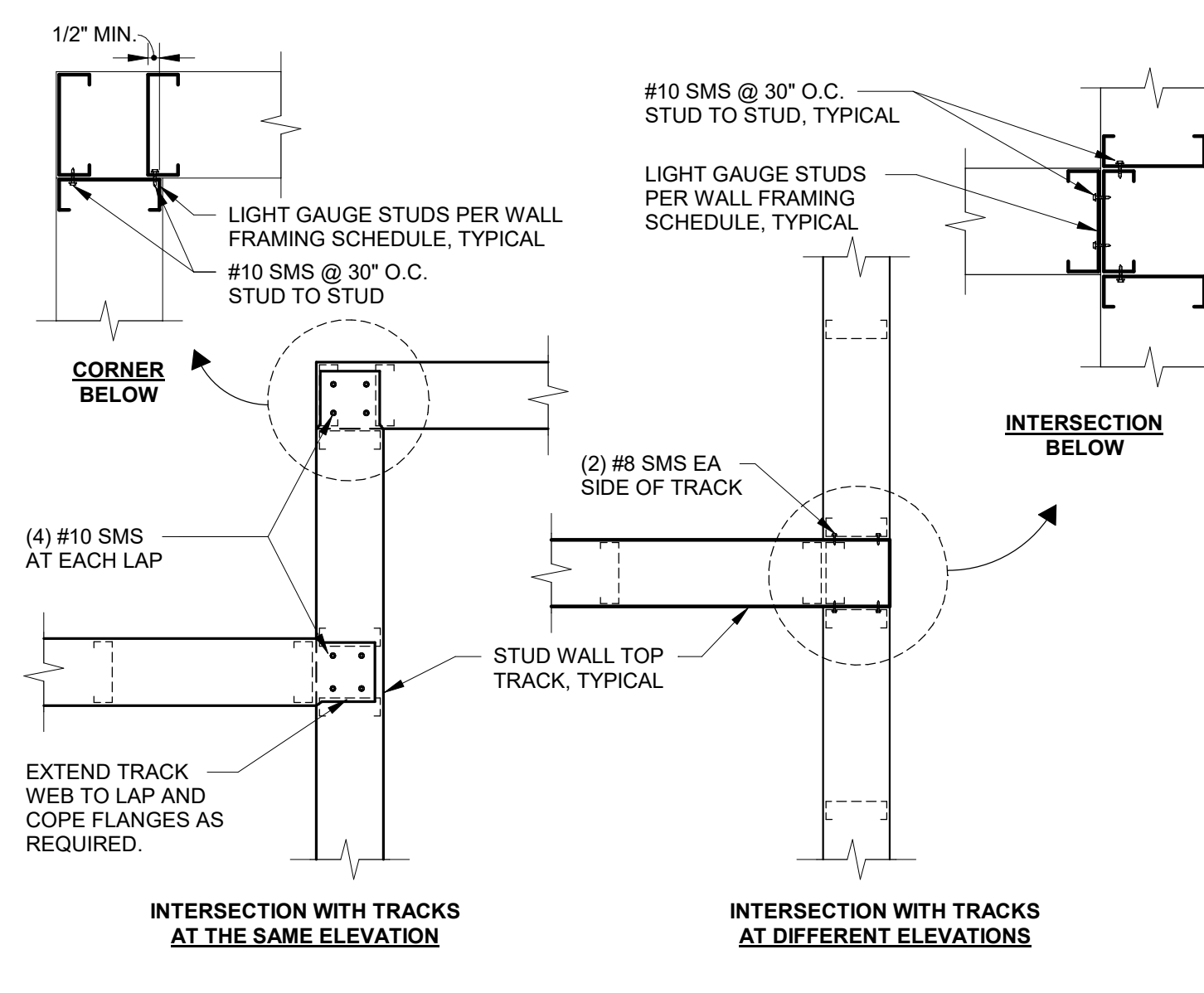
STUD PENETRATION DETAIL
NO SCALE
2
S1.03



REINFORCING PLATE DETAIL
NO SCALE
3
S1.03



STUD PENETRATION DETAIL
NO SCALE
4
S1.03



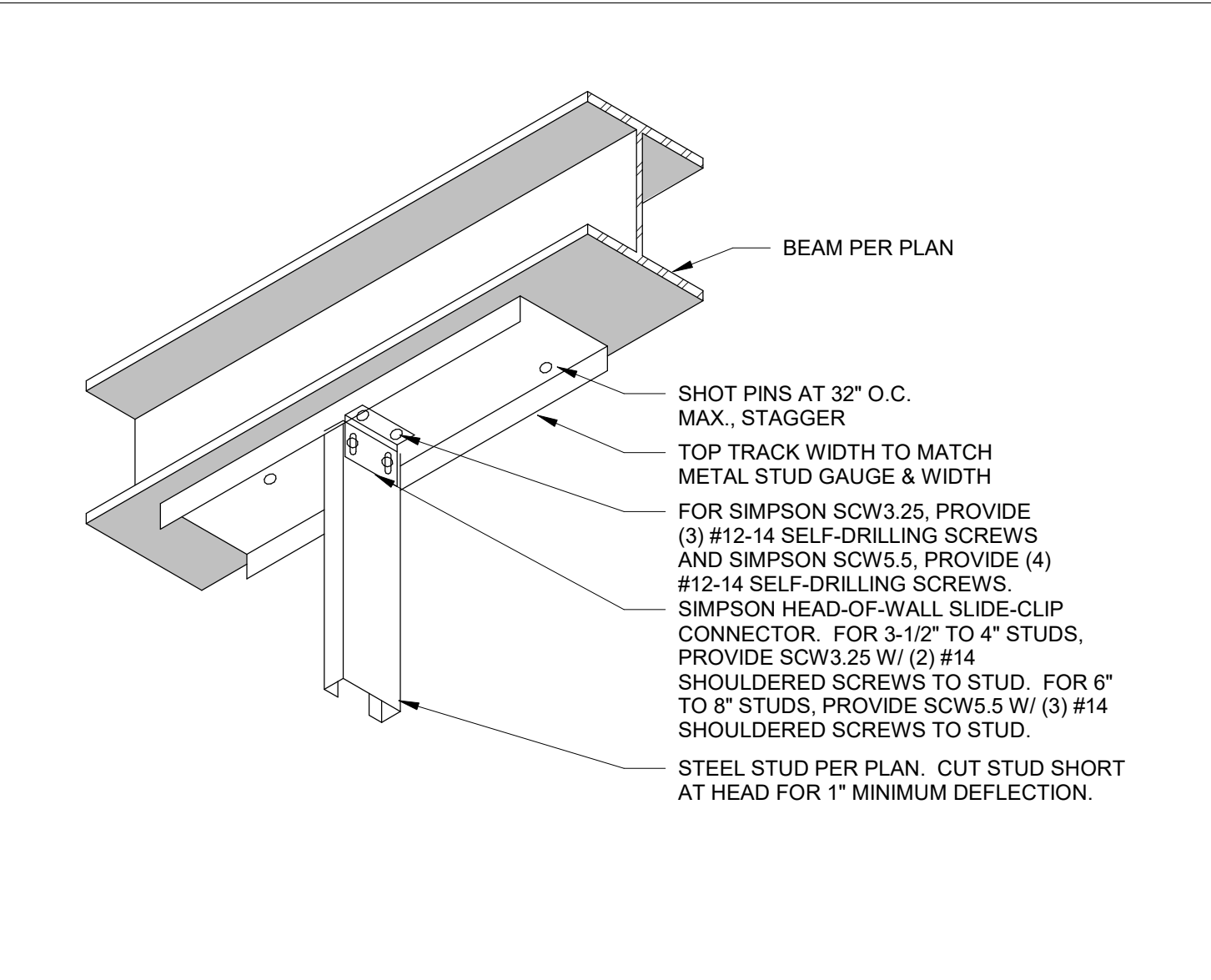
CORNER/INTERSECTION FRAMING
1" = 1'-0"
5
S1.03

LOCATION	SPAN LENGTH	WALL	WALL STUDS	BOX HEADER(15)		JAMB/TRIMMER	OPENING SILL	NO. #10 SMS AT HEADER ATTACHMENT
				DBL. JOIST	TRACK			
EXTERIOR & BEARING WALLS	0'-0" TO 4'-0"	6" STUD	600S162-43 @ 16" O.C.	600S162-43	600T150-43	(2) 600S162-43	(2) 600S162-43	(12)
	4'-1" TO 8'-0"	6" STUD	600S162-43 @ 16" O.C.	600S162-68	600T150-54	(2) 600S162-54	(2) 600S162-43	(12)
INTERIOR (NON BEARING AND NON SHEAR WALLS)	8'-1" TO 14'-0"	6" STUD	600S162-43 @ 16" O.C.	1000S250-97	600T200-68	(2) 600S200-68	(2) 600S162-54	(16)
	0'-0" TO 4'-0"	6" STUD	600S162-33 @ 24" O.C.	600S162-33	600T150-33	(2) 600S162-43	600S162-43	(8)
	4'-1" TO 8'-0"	6" STUD	600S162-33 @ 24" O.C.	600S162-43	600T150-43	(2) 600S162-54	600S162-43	(8)
	8'-1" TO 14'-0"	6" STUD	600S162-33 @ 24" O.C.	600S200-68	600T200-54	(2) 600S200-68	600S162-54	(8)

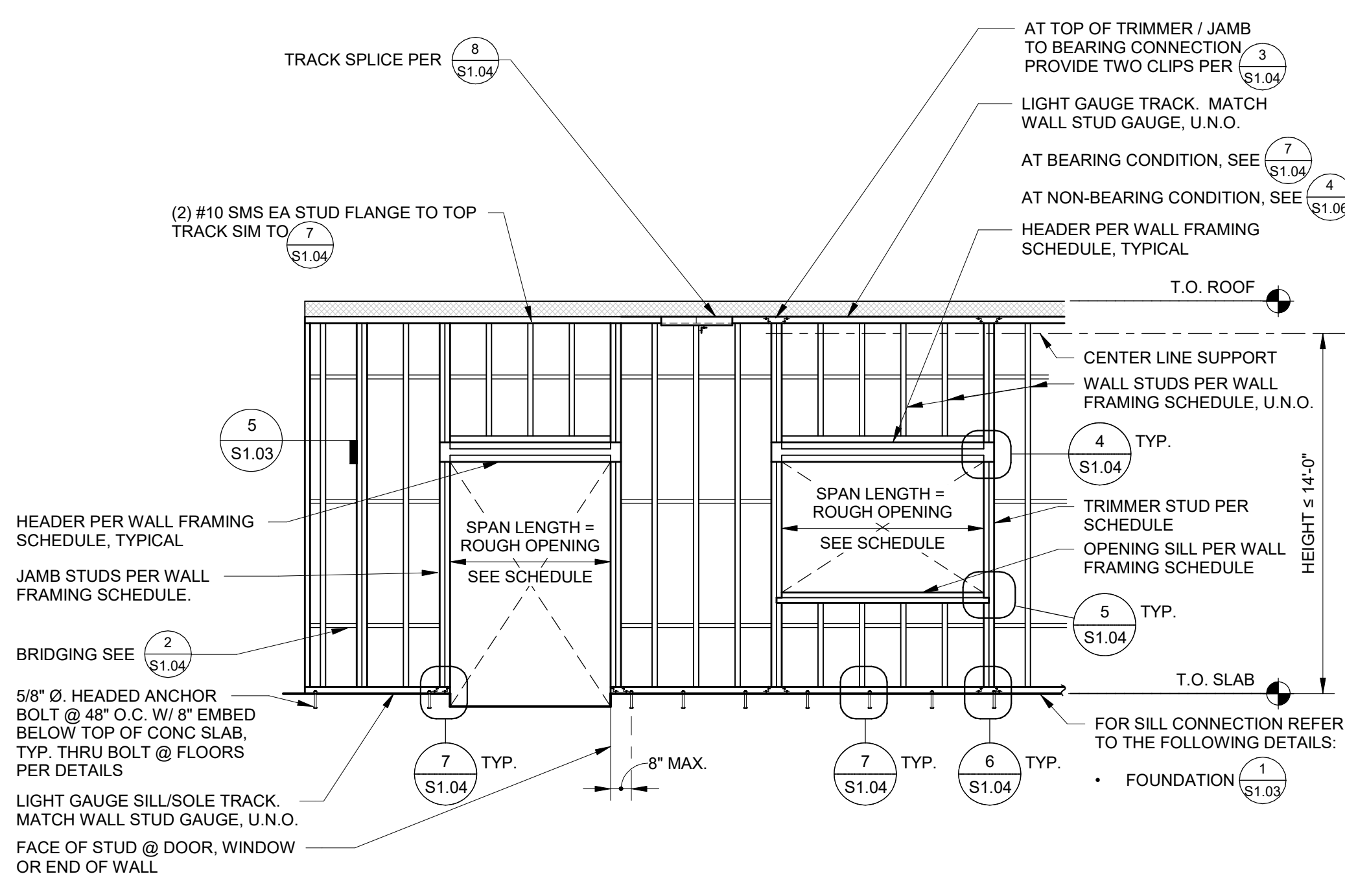
MILS	MINIMUM THICKNESS	GAUGE
33	0.0329"	20
43	0.0428"	18
54	0.0538"	16
68	0.0677"	14
97	0.0966"	12

- NOTES:**
- ALL BEARING & NON-BEARING STEEL STUD WALLS SHALL BE PER WALL FRAMING SCHEDULE UNLESS NOTED OTHERWISE. FOR WALL TYPE AND LOCATION SEE ARCHITECTURAL DRAWINGS.
 - ALL SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST A.I.S.I. SPECIFICATION AND MEET THE FOLLOWING THICKNESS REQUIREMENTS:

- BENT, KINKED, DISTORTED, OR DAMAGED SECTIONS SHALL NOT BE USED.
- STUDS MAY HAVE FACTORY WEB PUNCHOUTS U.N.O. AT 24" O.C. ALONG CENTERLINE OF WEB WITH A MAXIMUM WIDTH = HALF THE MEMBER DEPTH (d/2) OR 2 1/2" WHICHEVER IS LESS, AND A MAXIMUM LENGTH = 4 1/2". PUNCHOUTS SHALL NOT BE CLOSER THAN 10" FROM SECTION ENDS. SEE ARCHITECTURAL DRAWINGS FOR UNPUNCHED STUD REQUIREMENTS AT ACOUSTICAL WALLS.
- ALL STUDS AND JAMBS SHALL EXTEND FULL-HEIGHT (SUPPORT TO SUPPORT).
- FOR SIZES OF OPENINGS AND ELEVATION TO BOTTOM/TOP OF OPENINGS, SEE ARCHITECTURAL PLANS.
- ALL JAMBS, HEADERS AND WINDOW SILLS SHALL BE AS NOTED IN SCHEDULE. TOP OF WALL TRACK AND BOTTOM OF WALL TRACK SHALL MATCH WALL STUD GAUGE WITH 1 1/2" MINIMUM FLANGE.
- PROVIDE BRIDGING PER DETAIL 2 S1.04
- ALL PARAPETS SHALL BE CAPPED WITH A LIGHT GAUGE TRACK MATCHING STUD GAUGE AND THICKNESS.
- WHERE NON-BEARING WALLS EXTEND TO STRUCTURE, SEE 4 S1.04
- ALL WELDS SHALL BE 1/8" FILLET MAXIMUM. FOR MATERIALS THINNER THAN 0.15", EFFECTIVE THROAT SHALL NOT BE LESS THAN THINNESS MATERIAL. WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE - SHEET STEEL" AWS D1.3.
- SCREWS SHALL BE THREAD-FORMING OR THREAD-CUTTING, WITH OR WITHOUT A SELF DRILLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MINIMUM SPACING IS THREE SCREW DIAMETERS. A MINIMUM OF (3) THREADS SHALL BE VISIBLE BEYOND THE BACK OF THE MEMBER.
- USE LOW PROFILE HEAD SCREWS AT ALL LOCATIONS THAT HAVE GYPSUM BOARD FINISH.
- USE UNPUNCHED STUDS FOR ALL BOX HEADERS AND JAMB STUDS.
- WALL STUDS LISTED IN THE WALL FRAMING SCHEDULE SHALL BE USED, UNLESS NOTED OTHERWISE. SEE PLANS AND SPECIFIC DETAILS FOR ADDITIONAL REQUIREMENTS.
- FOR ADDITIONAL STUD REQUIREMENTS, AND MINIMUM PROPERTIES, SEE 9 S1.04
- FOR STUD PENETRATIONS, SEE DETAILS 4 S1.03 & 2 S1.03
- WHERE CLIP ALIGNS WITH STUD KNOCKOUT, REINFORCE PER 3 S1.03



NON-BEARING WALL AT SLOPED BEAM
NO SCALE
6
S1.03



STEEL STUD WALL
NO SCALE
7
S1.03

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APP: 03-123900 INC:
REVIEWED FOR
SS FLS ACS
DATE: 08/05/2024



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST,
BAKERSFIELD, CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL

1100 CITADEL
BAKERSFIELD, CA93307

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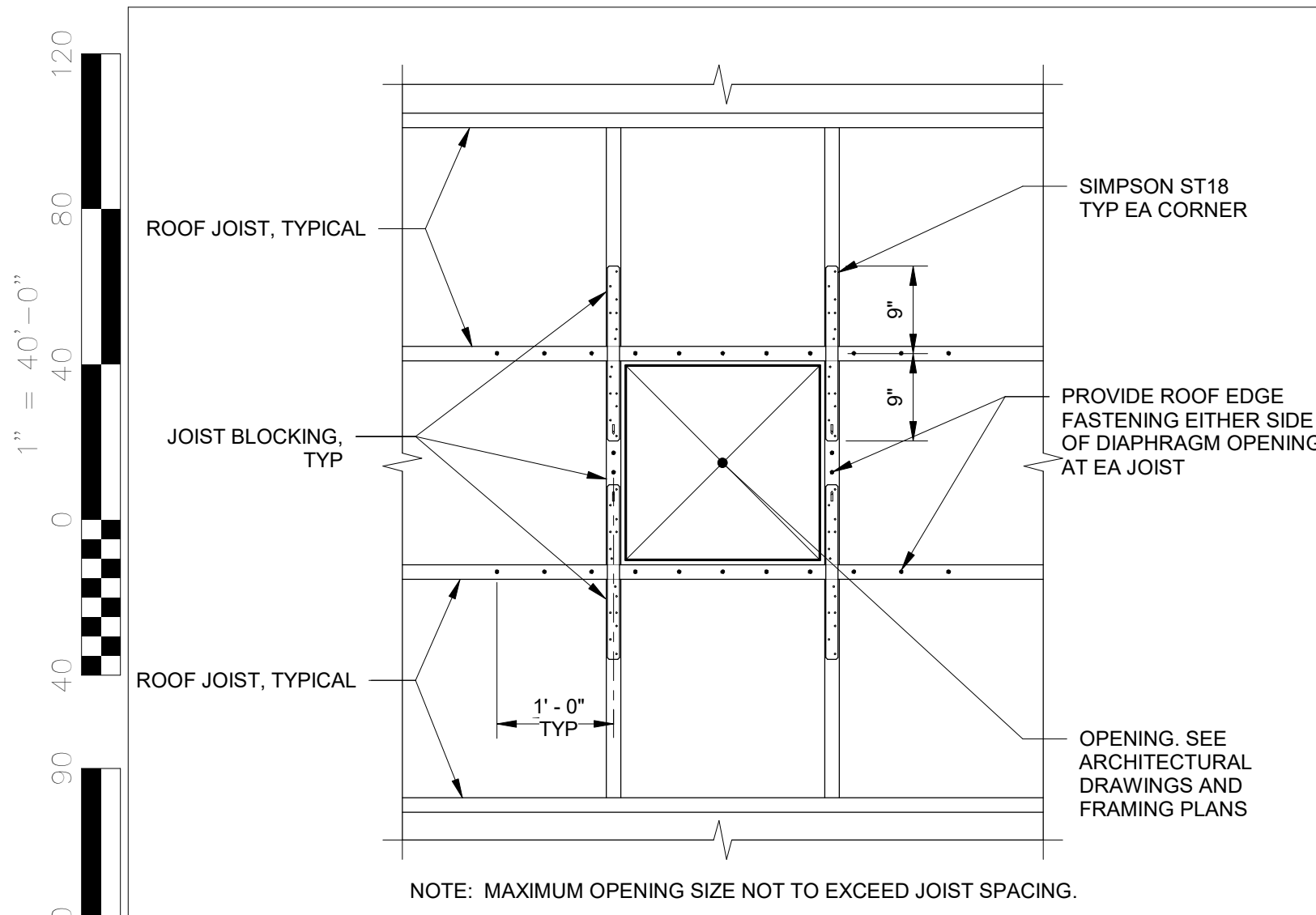
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REGISTERED PROFESSIONAL ENGINEER
DUSTIN G. LEE
No. S6623
EXP. 3/31/25
STRUCTURAL
STATE OF CALIFORNIA

Sheet Title:
TYPICAL DETAILS No. 3

Job No.:
5593

Sheet No.:
S1.03
Release: DSA SUBMITTAL Date: 01-09-24

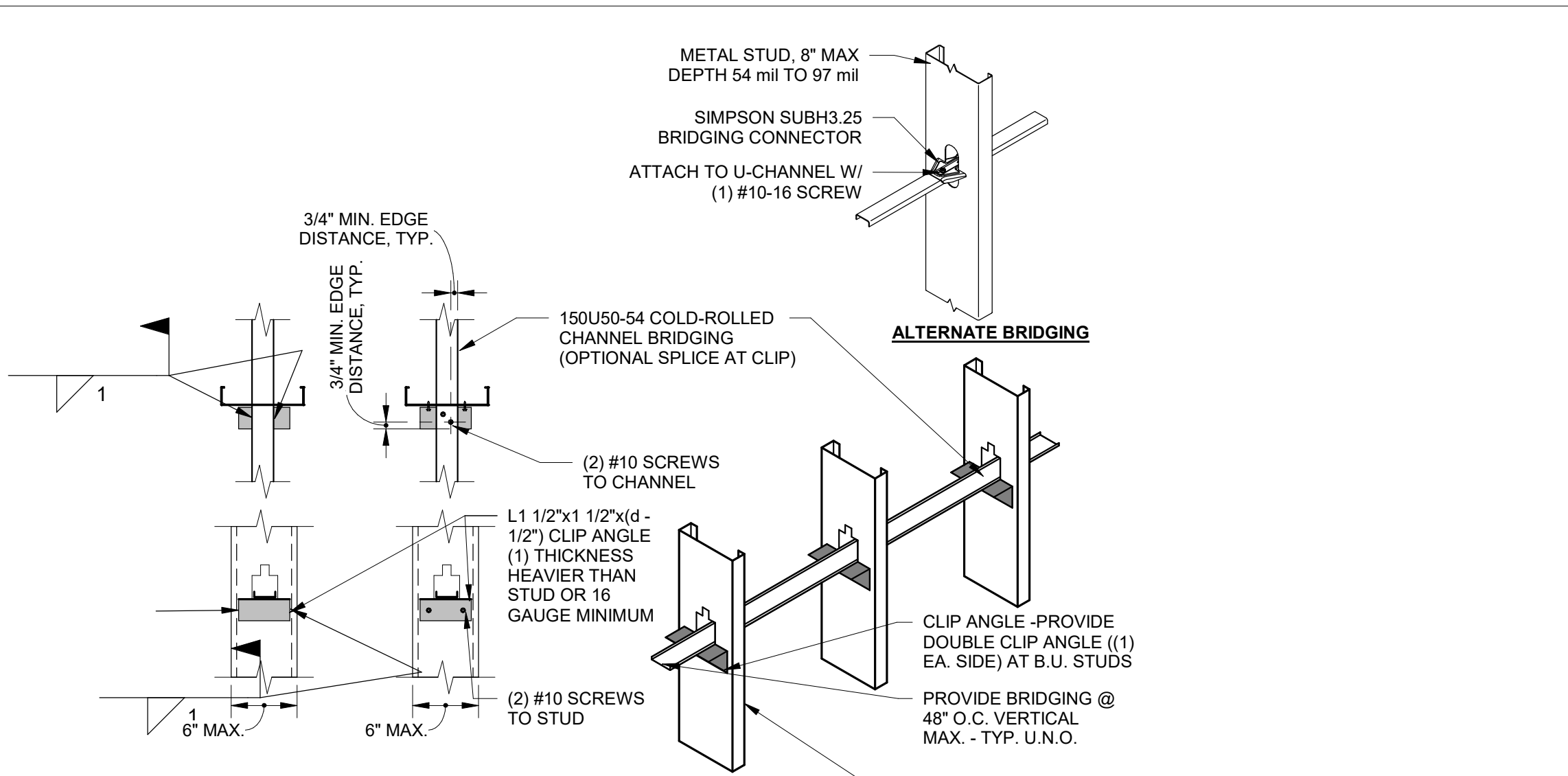
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SMALL ROOF OPENING

1

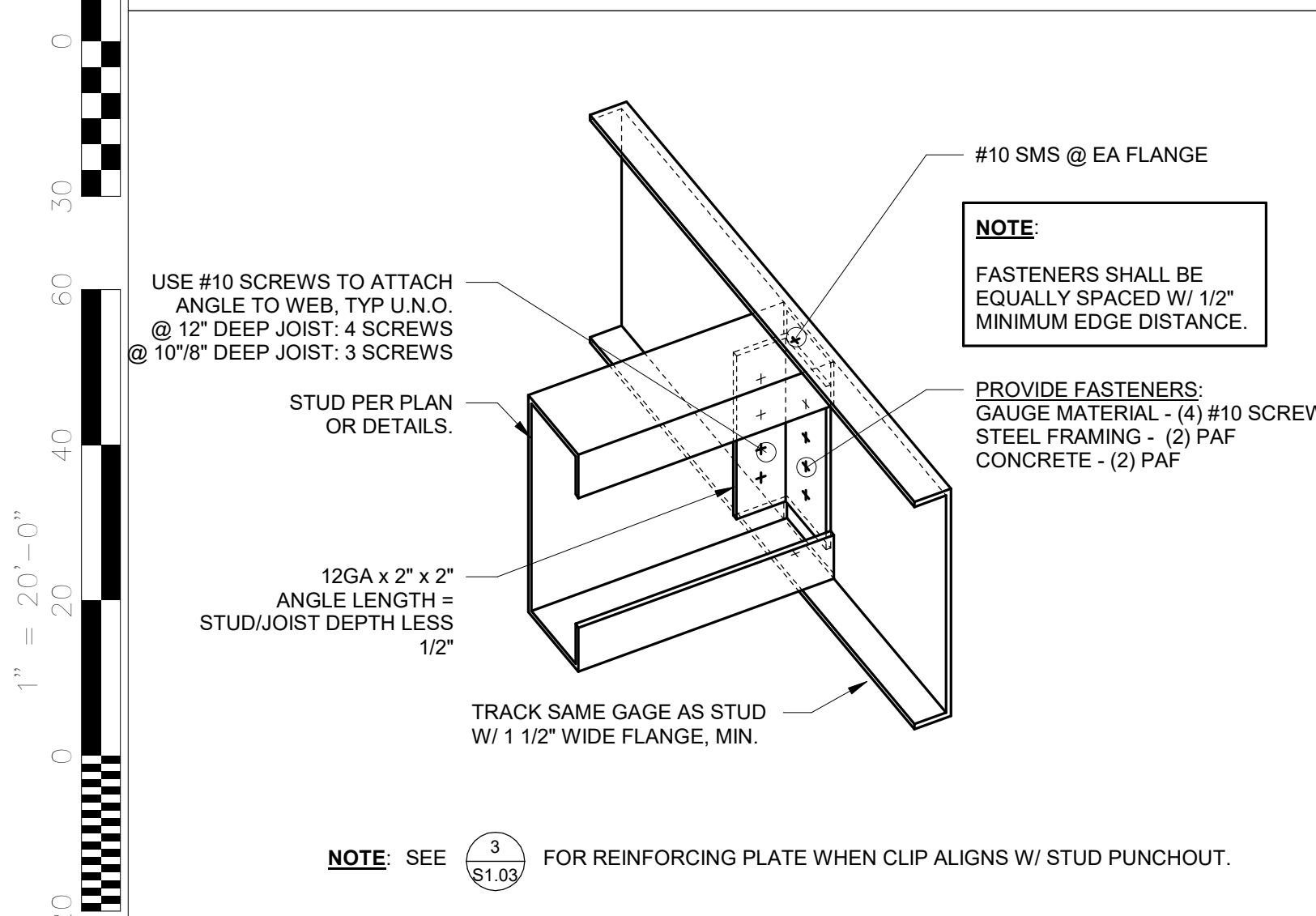
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BRIDGING - ALTERNATE

2

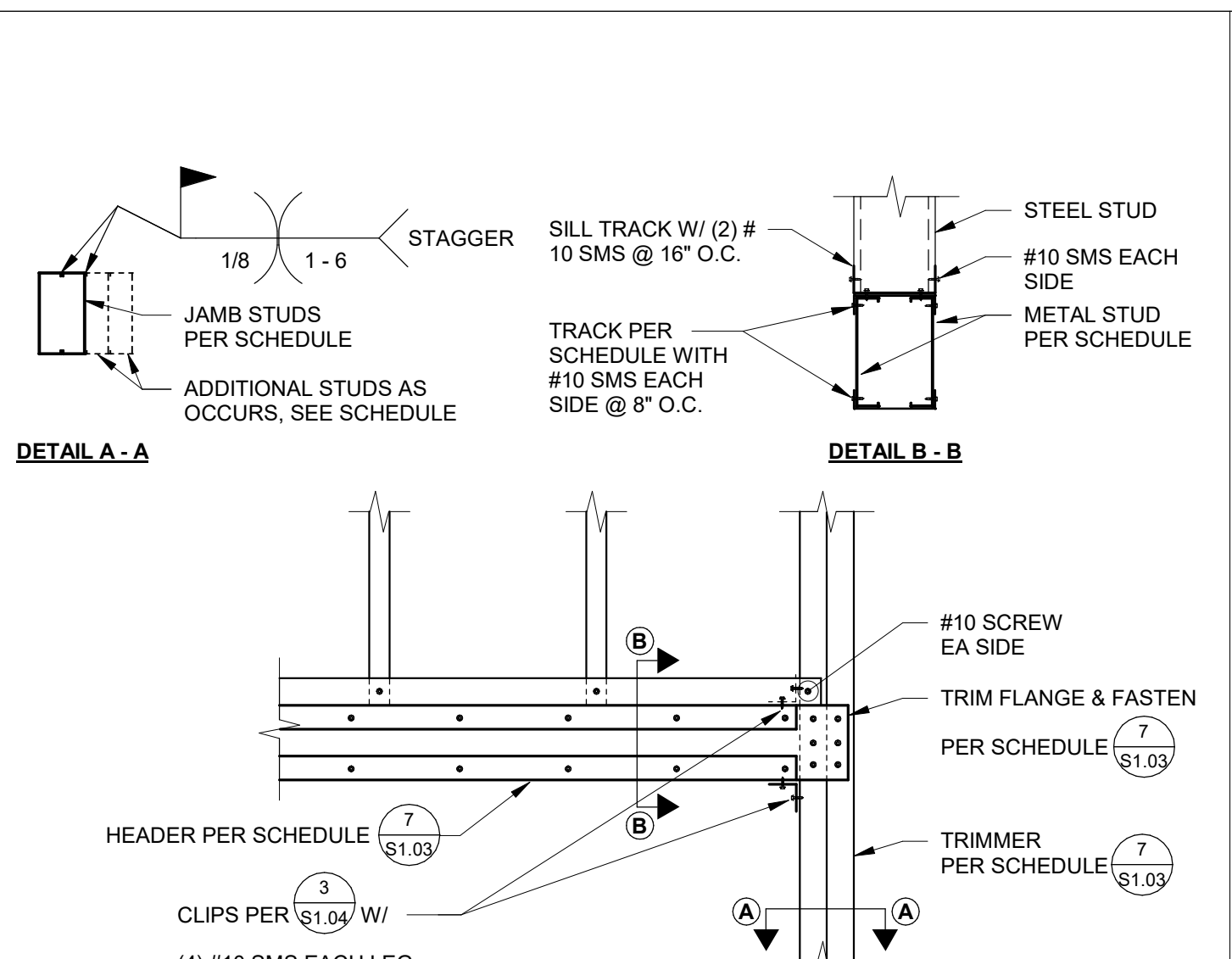
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CLIP DETAIL

3

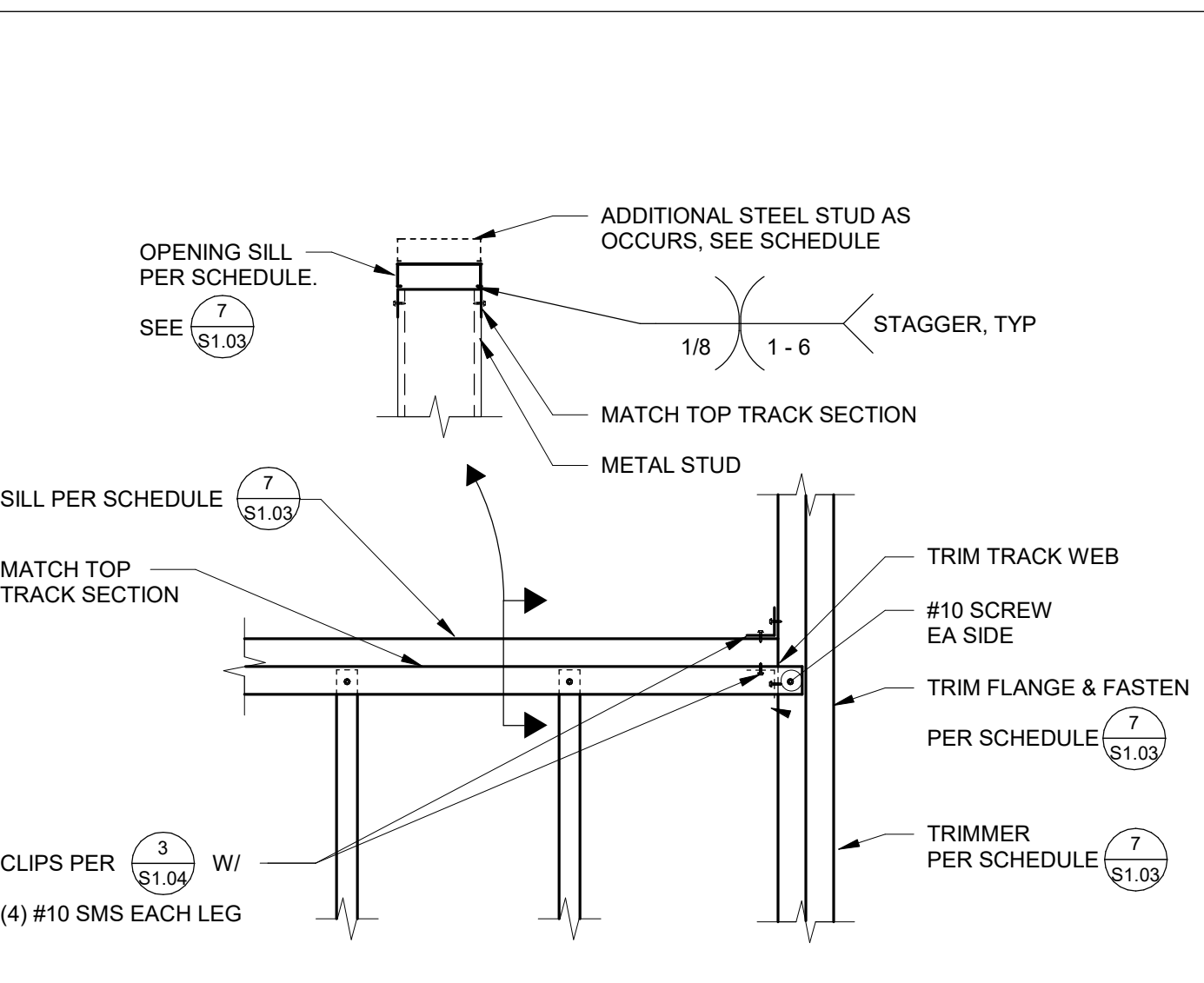
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HEADER ATTACHMENT

4

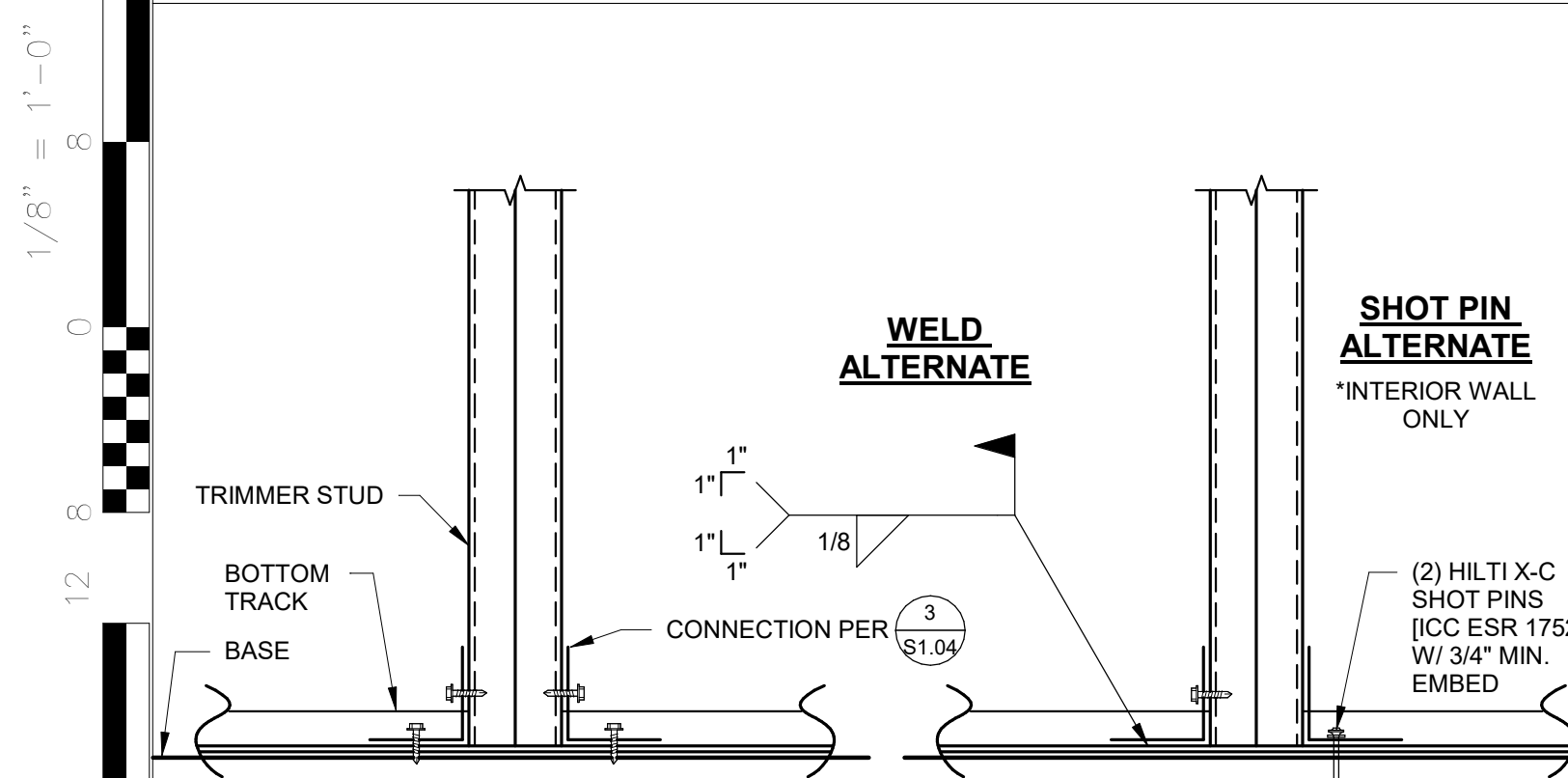
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SILL DETAIL

5

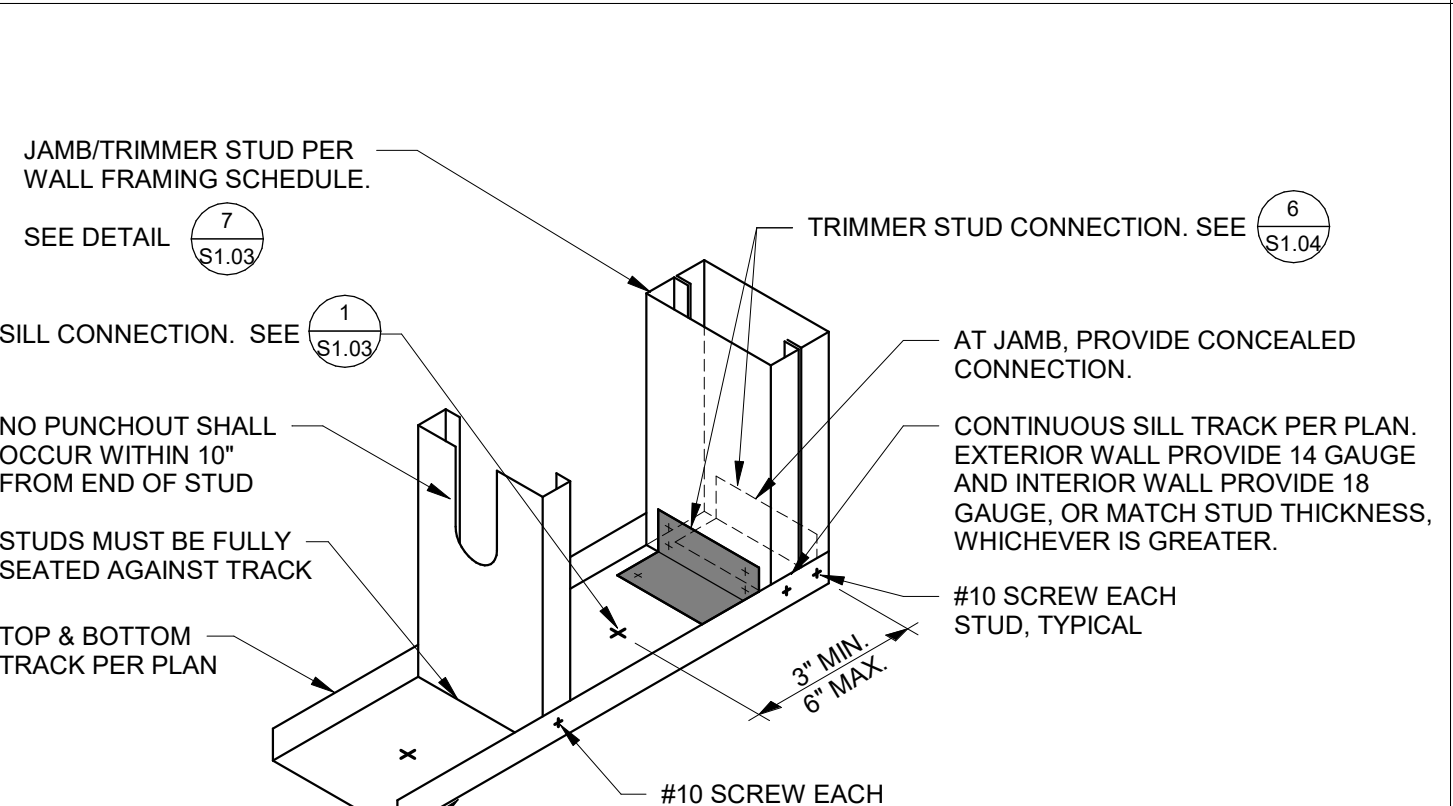
S1.04



TRIMMER STUD AT BOTTOM TRACK

6

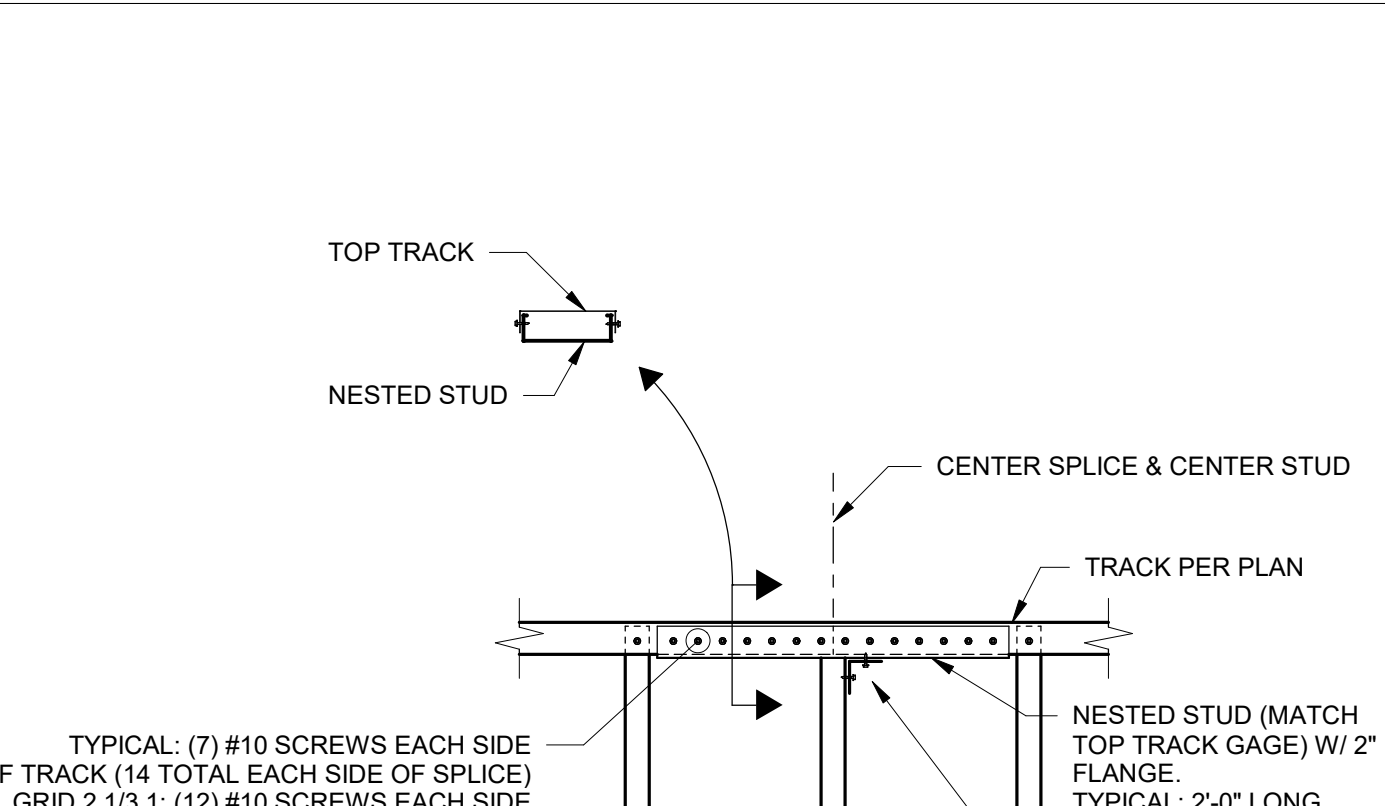
S1.04



STUD DETAIL

7

S1.04



TRACK SPLICE DETAIL

8

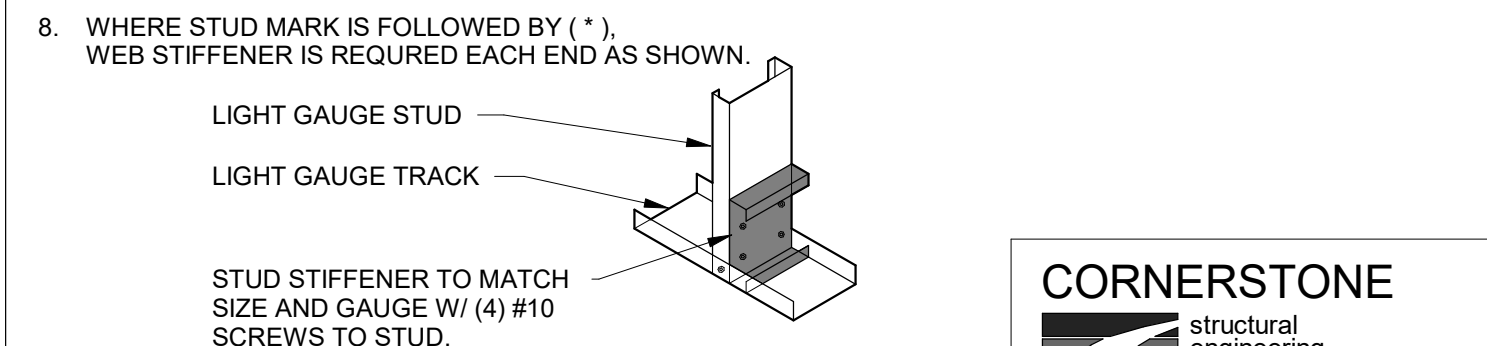
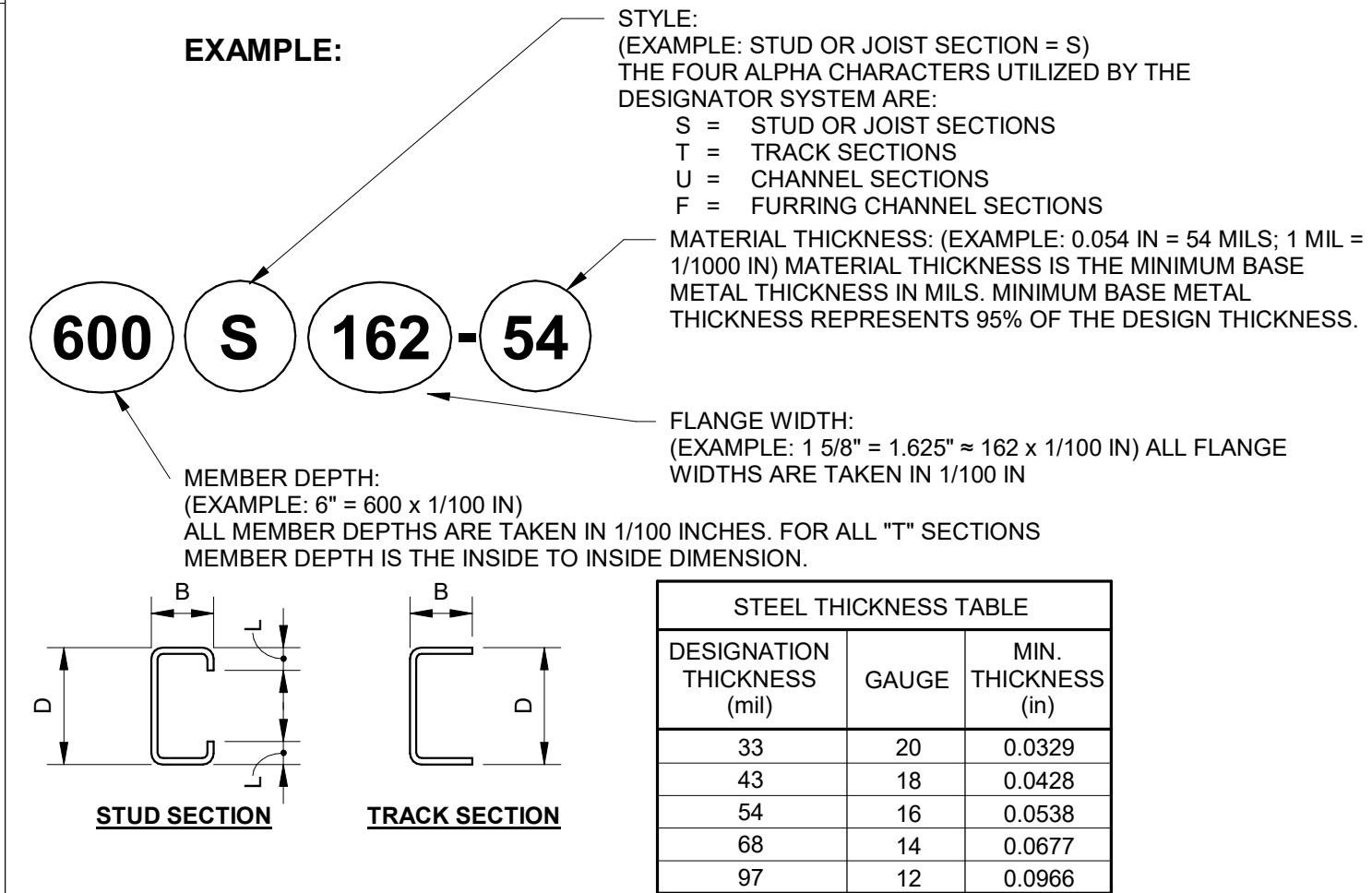
S1.04

LIGHT GAUGE STEEL PROPERTIES

TYPE	STUD MARK	DIMENSIONS IN INCHES		MINIMUM SECTION PROPERTIES		Fy (ksi)
		L	B	Ix in ⁴	Sx in ³	
LIGHT GAUGE STEEL STUDS						
1	362S162-33	0.500	1.625	0.551	0.304	33
	362S162-43	0.500	1.625	0.710	0.392	33
	362S162-54	0.500	1.625	0.873	0.481	50
	600S162-33	0.500	1.625	1.793	0.598	33
	600S162-43	0.500	1.625	2.316	0.772	33
	600S162-54	0.500	1.625	2.860	0.953	50
	600S162-68	0.500	1.625	3.525	1.175	50
	800S162-33 *	0.500	1.625	3.582	0.896	33
	800S162-43 *	0.500	1.625	4.633	1.158	33
	800S162-54 *	0.500	1.625	5.736	1.434	50
	800S162-68 *	0.500	1.625	7.089	1.772	50
	800S200-33 *	0.625	2.000	4.096	1.024	33
	800S200-43	0.625	2.000	5.302	1.325	33
	800S200-54	0.625	2.000	6.573	1.643	50
	800S200-68	0.625	2.000	8.140	2.035	50
	1000S162-43 *	0.500	1.625	8.025	1.605	33
	1000S162-68	0.500	1.625	9.950	1.990	50
	1000S162-68	0.500	1.625	12.325	2.465	50
	1000S200-43 *	0.625	2.000	9.085	1.817	33
	1000S200-54	0.625	2.000	11.278	2.256	50
	1000S200-68	0.625	2.000	13.994	2.799	50
	1000S250-43 *	0.625	2.500	10.203	2.041	33
	1000S250-54	0.625	2.500	12.677	2.535	50
	1000S250-68	0.625	2.500	15.751	3.150	50
	1200S162-54 *	0.500	1.625	15.730	2.622	50
	1200S162-68	0.500	1.625	19.518	3.253	50
	1200S200-54 *	0.625	2.000	17.662	2.944	50
	1200S200-68	0.625	2.000	21.947	3.658	50
	1200S250-54 *	0.625	2.500	19.681	3.280	50
	1200S250-68	0.625	2.500	24.484	4.081	50
	1200S250-97	0.625	2.500	34.016	5.669	50
	1200S300-54 *	0.625	3.000	21.699	3.617	50
	1200S300-68	0.625	3.000	27.020	4.503	50
	1200S300-97	0.625	3.000	37.616	6.269	50
LIGHT GAUGE STEEL TRACKS						
	250T125-33	-	1.250	0.192	0.145	33
	362T125-33	-	1.250	0.438	0.232	33
	362T125-43	-	1.250	0.571	0.302	33
	362T125-54	-	1.250	0.723	0.378	50
	600T125-33	-	1.250	1.428	0.465	33
	600T125-43	-	1.250	1.861	0.604	33
	600T125-54	-	1.250	2.344	0.756	50
	600T125-68	-	1.250	2.969	0.950	50
	800T125-33	-	1.250	2.895	0.711	33
	800T125-43	-	1.250	3.773	0.924	33
	800T125-54	-	1.250	4.745	1.158	50
	800T125-68	-	1.250	5.998	1.454	50
	1000T125-43	-	1.250	6.630	1.305	33
	1000T125-54	-	1.250	8.333	1.634	50
	1000T125-68	-	1.250	10.522	2.053	50
	1200T125-54	-	1.250	13.335	2.186	50
	1200T125-68	-	1.250	16.826	2.747	50

- NOTES:**
- ALL SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST A.I.S.I. SPECIFICATION AND SHALL BE ASTM A653.
 - BENT, KINKED, DISTORTED, OR DAMAGED SECTIONS SHALL NOT BE USED.
 - STUDS MAY HAVE 1 1/2"x4" WEB CUTOUTS AT 24" O.C. CUTOUTS SHALL NOT BE CLOSER THAN 10" FROM SECTION ENDS.
 - SECTION PROPERTIES ARE BASED UPON THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) CATALOG OF PARTICIPATING PRODUCERS. (ICBO 4949F3)
 - WHERE POWER ACTUATED FASTENERS OR "SHOT PINS" ARE SPECIFIED, SEE POWER ACTUATED FASTENERS SPECIFICATION ON S0.01
 - SCREW FASTENERS SHALL MEET THE FOLLOWING REQUIREMENTS:

STEEL TO STEEL FASTENER SIZE	
STEEL THICKNESS "T"	SCREW TYPE
T < 12 GA.	#10 W/ #2 POINT
12 GA. < T < 1/4"	#10 W/ #3 POINT
1/4" < T < 1/2"	#10 W/ #5 POINT
STEEL TO WOOD FASTENER SIZE	
STEEL THICKNESS "T"	SCREW TYPE
T < 12 GA.	#10 W/ #3 POINT



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SS FLS ACS
DATE: 08/05/2024



BAKERSFIELD CITY SCHOOL DISTRICT

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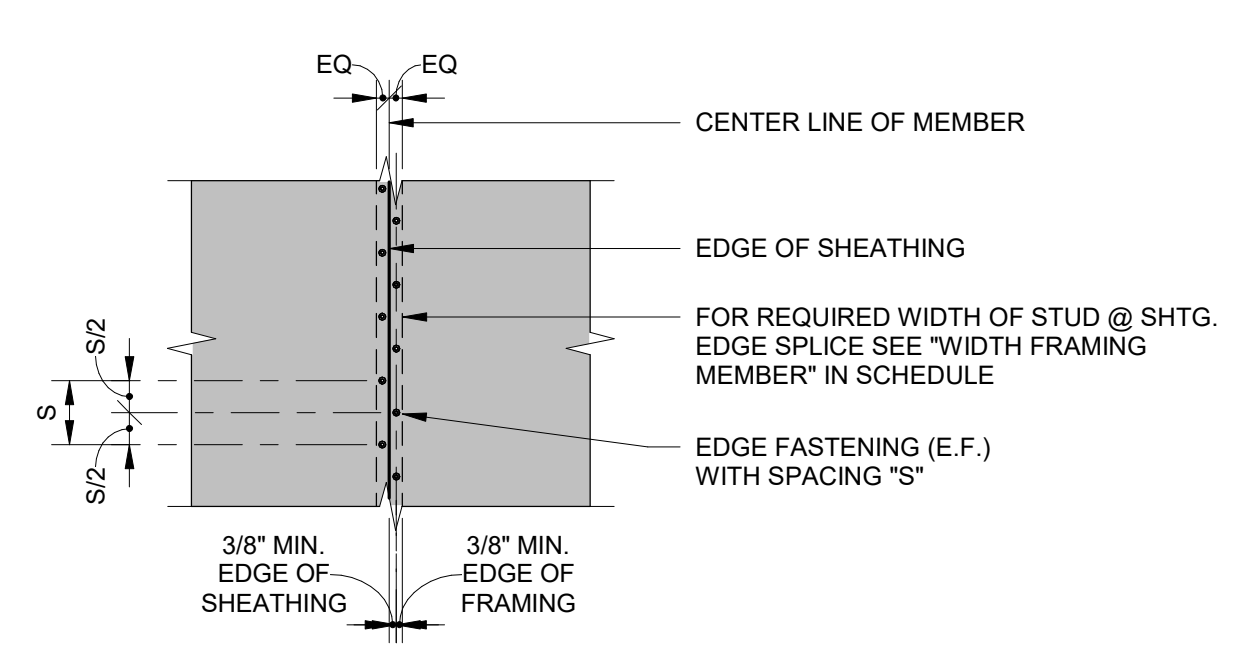
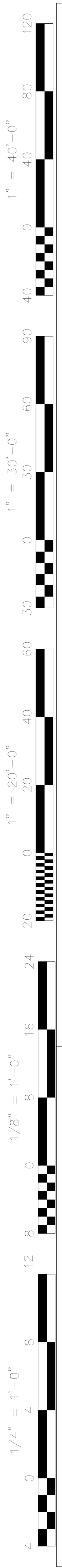
Stamp:
REGISTERED PROFESSIONAL ENGINEER
DUSTIN G. LEONARD
No. 56623
EXP. 3/31/25
STRUCTURAL
STATE OF CALIFORNIA

TYPICAL DETAILS No. 4

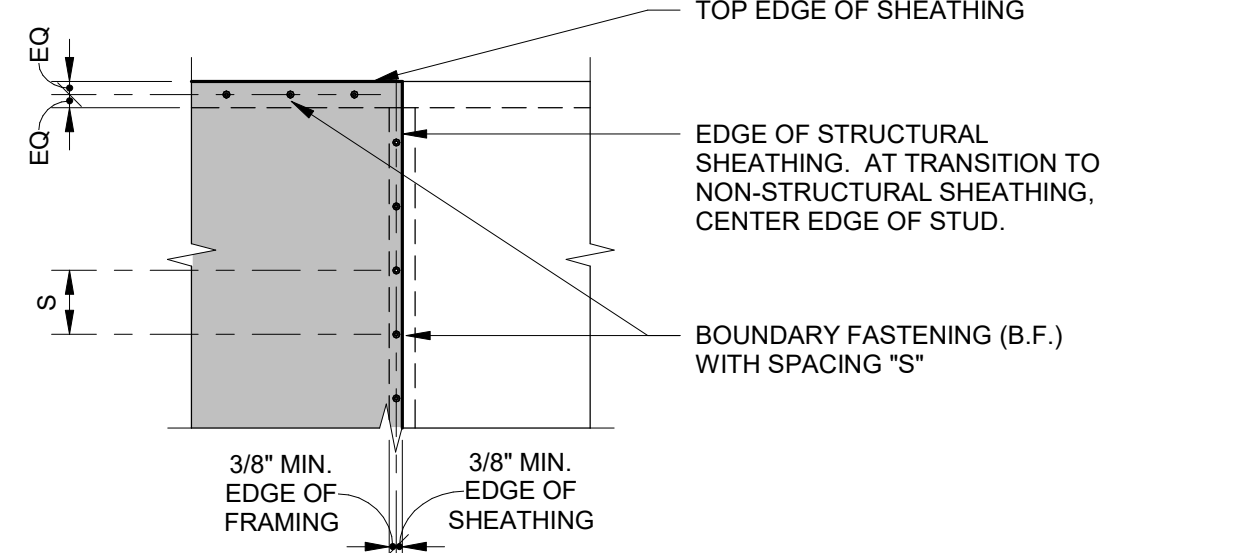
Job No.: **5593**

Sheet No.: **S1.04**

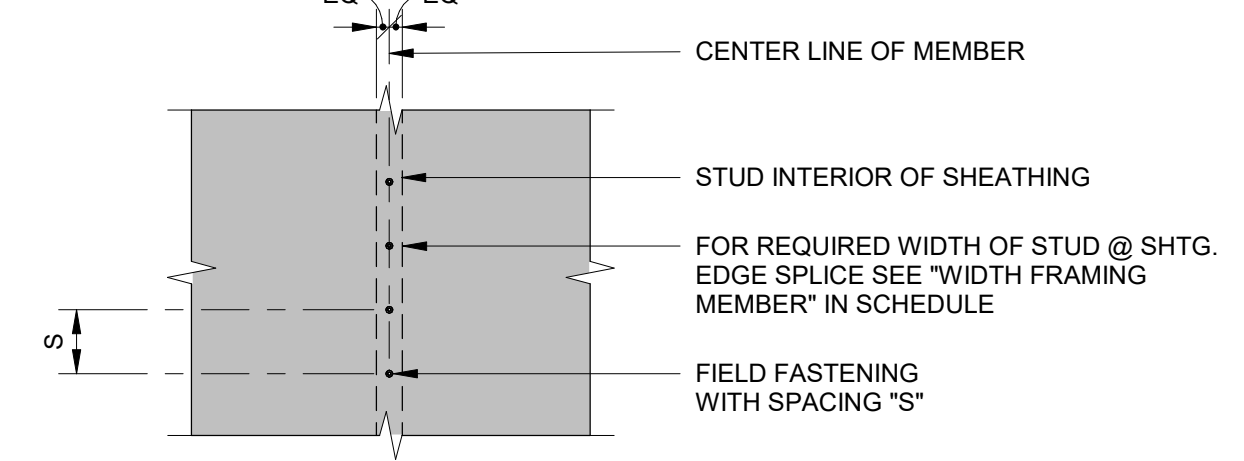
Release: DSA SUBMITTAL Date: 01-09-24



SHEAR PANEL FASTENING AT EDGE/BLOCKING



SHEAR PANEL FASTENING AT BOUNDARY

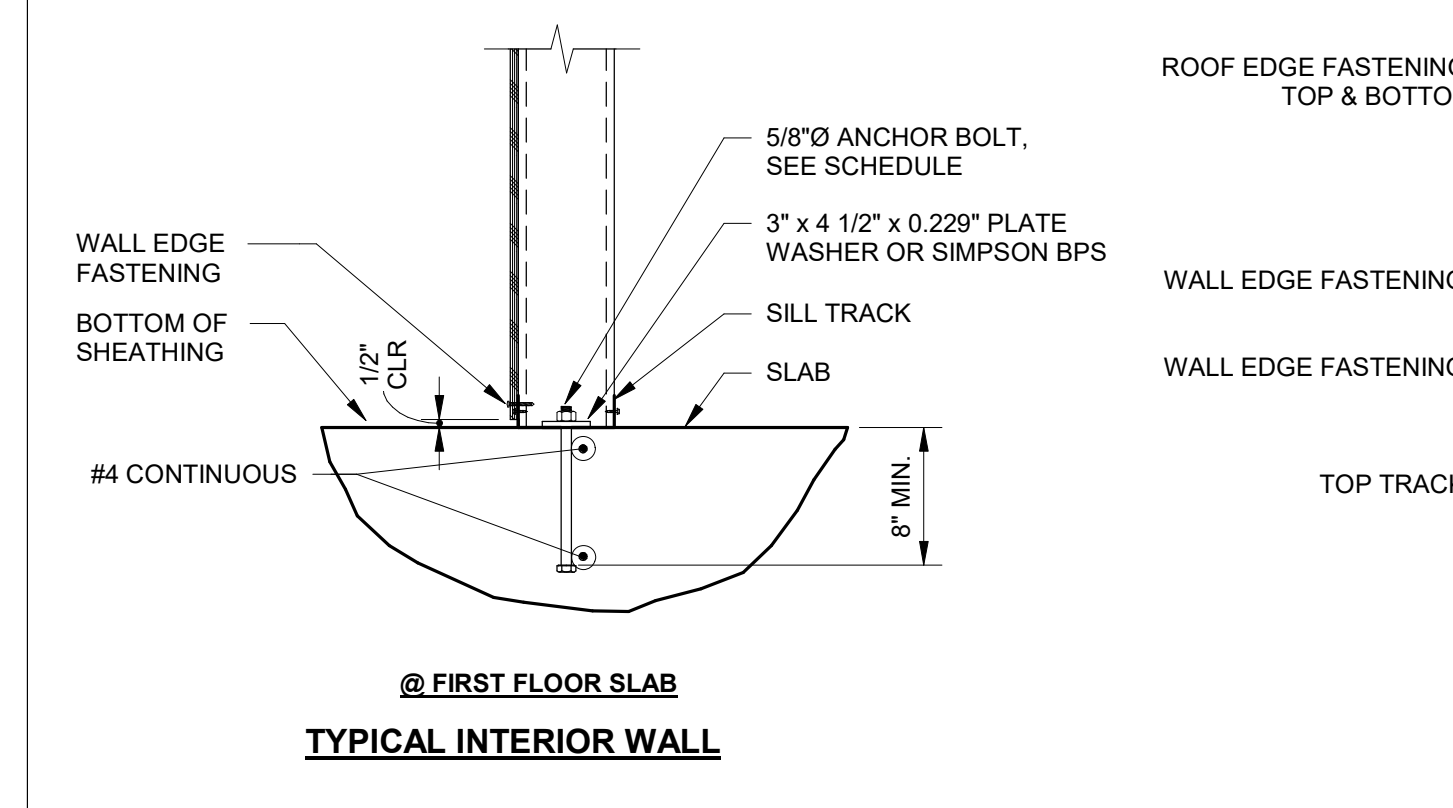


SHEAR PANEL FASTENING AT FIELD/INTERMEDIATE STUD

NOTE: THE FASTENING DESIGNATION 6:6:12 INDICATES (6" O.C. EDGE):(6" O.C. BOUNDARY):(12" O.C. FIELD)

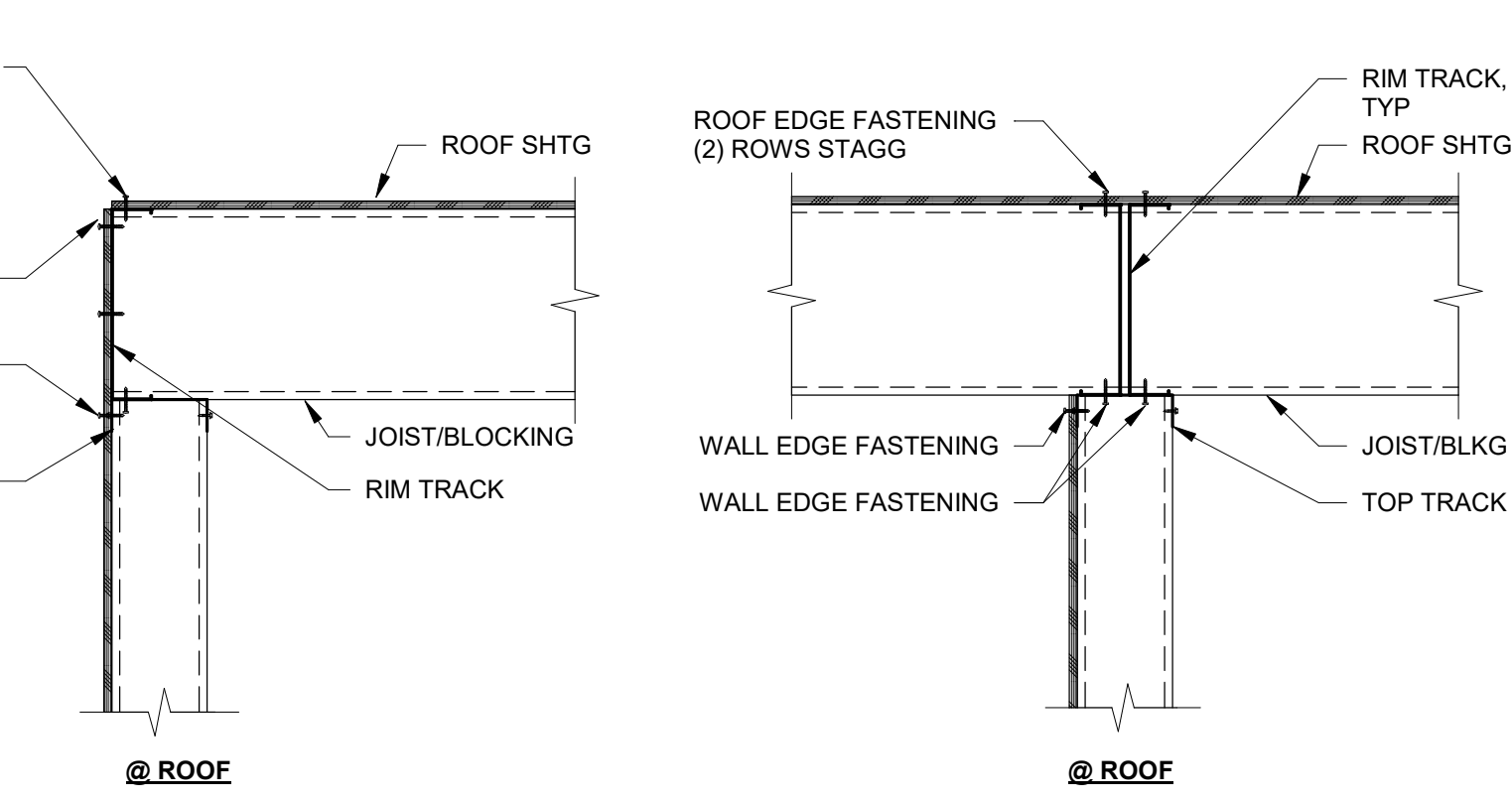
PLY EDGE/BOUNDARY FASTENING **1**
\$1.05

NO SCALE

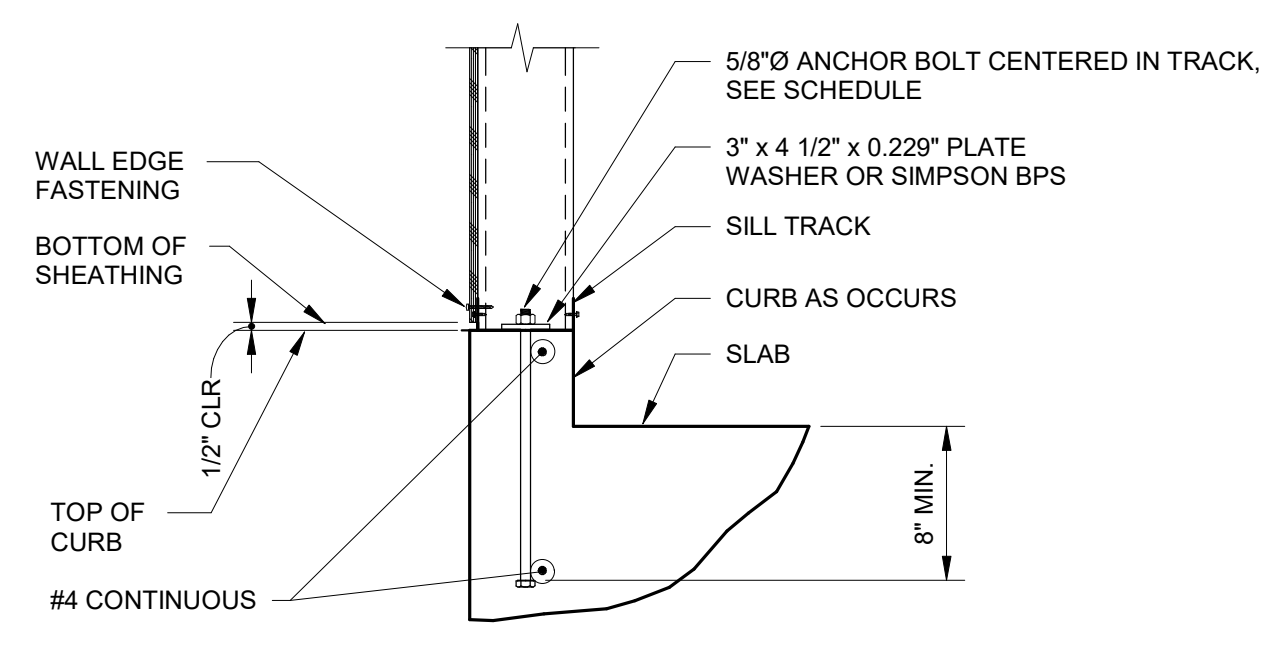


**@ FIRST FLOOR SLAB
TYPICAL INTERIOR WALL**

- NOTES:
- FRAMING AND CONNECTIONS SHOWN ARE FOR LATERAL SYSTEM LOAD TRANSFER ONLY. SEE PLANS AND DETAILS FOR ADDITIONAL VERTICAL SUPPORT FRAMING.
 - PROVIDE STANDARD CUT WASHER BETWEEN NUT & BPS PLATE.



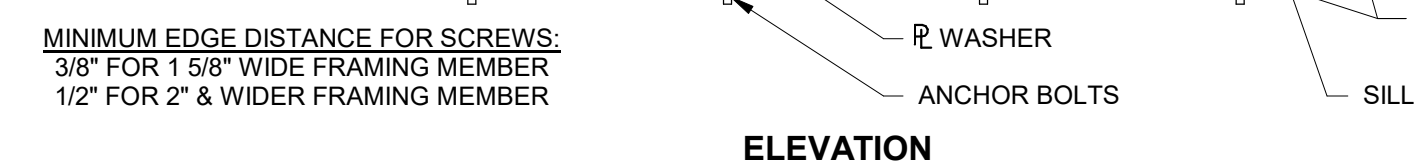
**@ FIRST FLOOR SLAB
TYPICAL EXTERIOR WALL**



SHEARWALL SCHEDULE - STEEL STUD

ZONE	ALLOWABLE SHEAR (SEISMIC / WIND)	SHEATHING	EDGE FASTENING	FIELD FASTENING	BOLTED PLATE CONNECTION	MINIMUM FRAMING THICKNESS	REMARK S
A	330 PLF / 455 PLF	7/16" OSB	No. 8 @ 6" O.C.	No. 8 @ 12" O.C.	AB @ 48" OC	18 GAUGE	1, 3
B	494 PLF / 705 PLF	7/16" OSB	No. 8 @ 4" O.C.	No. 8 @ 12" O.C.	AB @ 32" OC	18 GAUGE	2, 3

- REMARKS:
- INSTALL 1 5/8" OR WIDER FRAMING & BLOCKING WITH STAGGERED EDGE FASTENING AT ALL ADJOINING PANEL EDGES.
 - SHEATHING SHALL BE EDGE FASTENED AT ALL PANEL EDGES, TOP TRACKS, SILL TRACKS, HOLDOWN STUDS, POSTS AND BLOCKING LOCATIONS AS WELL AS OTHER LOCATIONS SHOWN IN THE DRAWINGS.

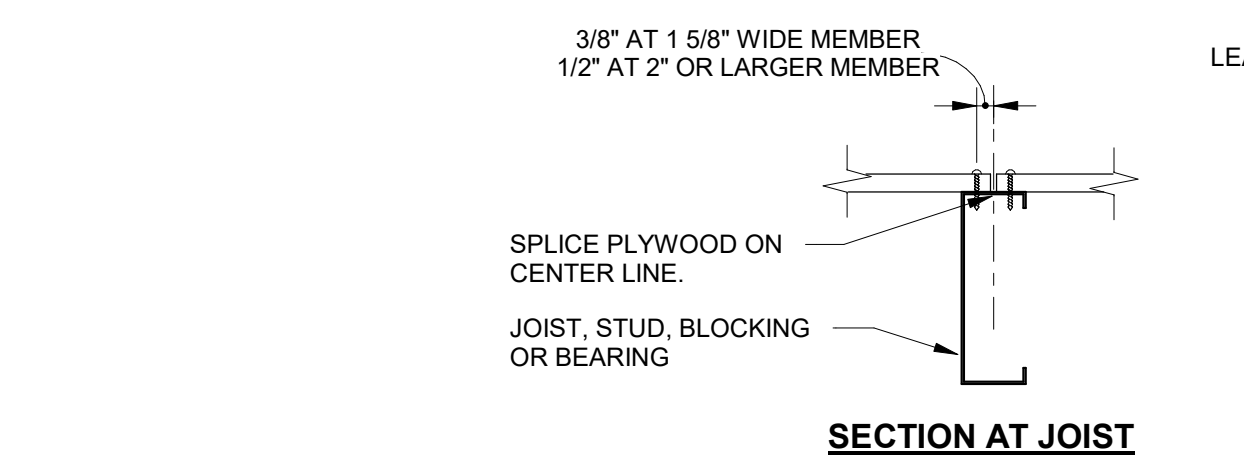


ELEVATION

- MINIMUM EDGE DISTANCE FOR SCREWS:
3/8" FOR 1 5/8" WIDE FRAMING MEMBER
1/2" FOR 2" & WIDER FRAMING MEMBER
- NOTES:
- HOLDOWN BOLTS SHALL NOT REPLACE ANCHOR BOLTS.
 - RETIGHTEN ALL ANCHOR BOLTS AND HOLDOWN NUTS PRIOR TO CLOSING FRAMING.
 - SCREWS SHALL CONFORM TO ASTM C1513. SCREWS SHALL BE SIMPSON SELD DRILLING BUGLE HEAD OR SIMILAR SHEATHING TO METAL STUD SCREW. NO. 8 SCREWS SHALL HAVE A MINIMUM HEAD DIAMETER OF 0.285". NO. 10 SCREWS SHALL HAVE A MINIMUM HEAD DIAMETER OF 0.333.
 - SCREWS SHALL BE DEEMED 'OVERDRIVEN' WHERE THE FLAT OUTER SURFACE OF THE HEAD IS DRIVEN BELOW THE SURFACE OF THE PANEL BEYOND 1/8" OR GREATER.
 - OVERDRIVEN SCREW FASTENERS ARE PERMITTED TO BE REMEDIATED BY REMOVAL AND REPLACEMENT WITH A SCREW WITH A LARGER HEAD DIAMETER. UNSCREWING AN OVERDRIVEN SCREW UNTIL ITS FLUSH WITH THE PANEL IS NOT PERMITTED.
 - IT IS PERMITTED TO USE OVERDRIVEN SCREWS WITH THE FOLLOWING CRITERIA:
A. IN ANY OF THE 4 CORNERS OF A WOOD PANEL, NONE OF THE 3 FASTENERS CLOSEST TO A PANEL CORNER ARE OVERDRIVEN
B. NO MORE THAN 10% OF FASTENERS ALONG THE PERIMETER ARE OVERDRIVEN
C. NO MORE THAN 20% OF THE FASTENERS IN THE FIELD ARE OVERDRIVEN
 - MINIMUM SHEATHING WIDTH IS 12".
 - UPSET THREAD BOLTS ARE NOT PERMITTED.
 - MINIMUM FRAMING THICKNESS = 18 GAGE, U.N.O.

STEEL STUD & WOOD SHEATHED SHEARWALL

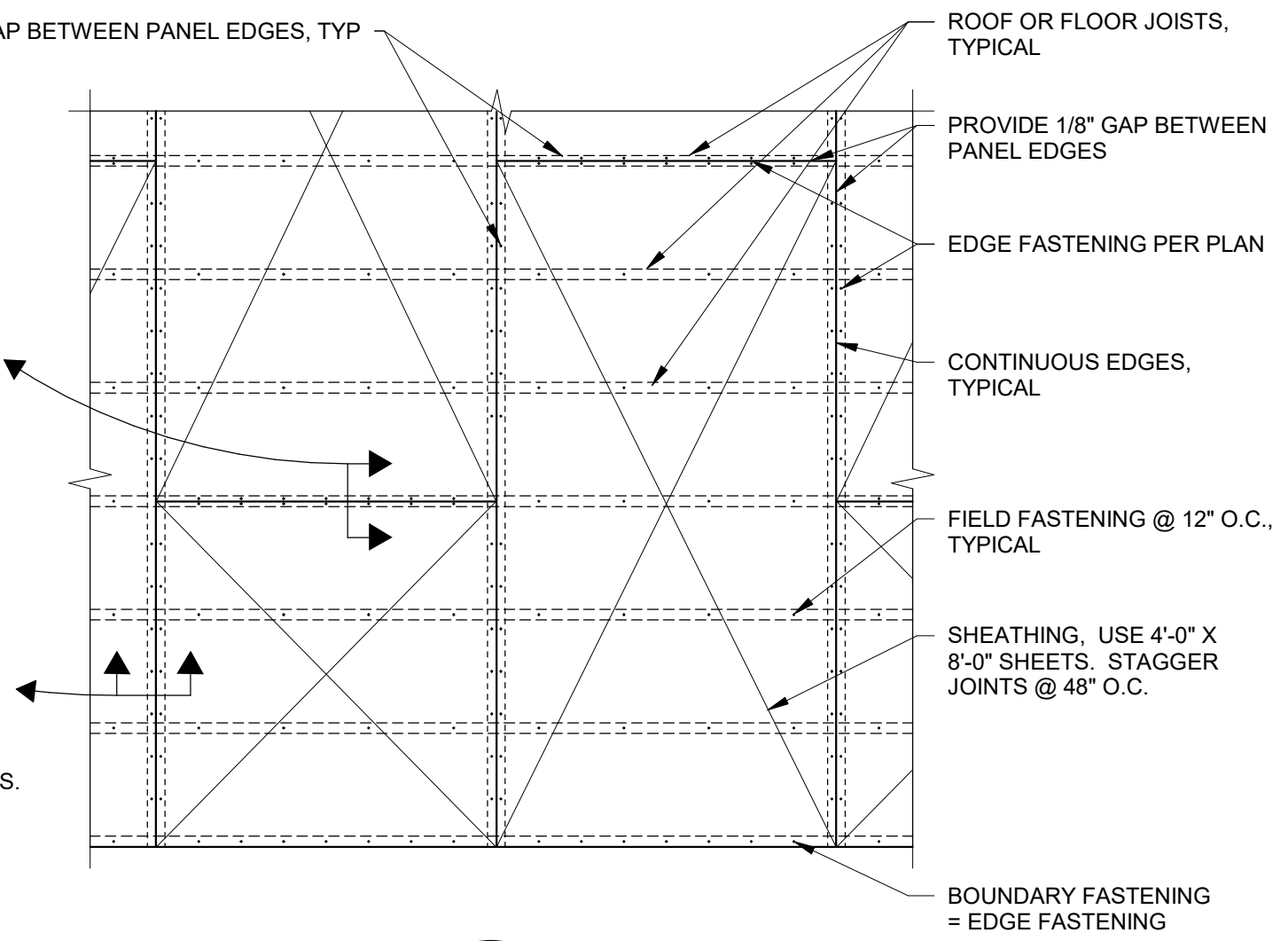
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\$1.05



SECTION AT JOIST

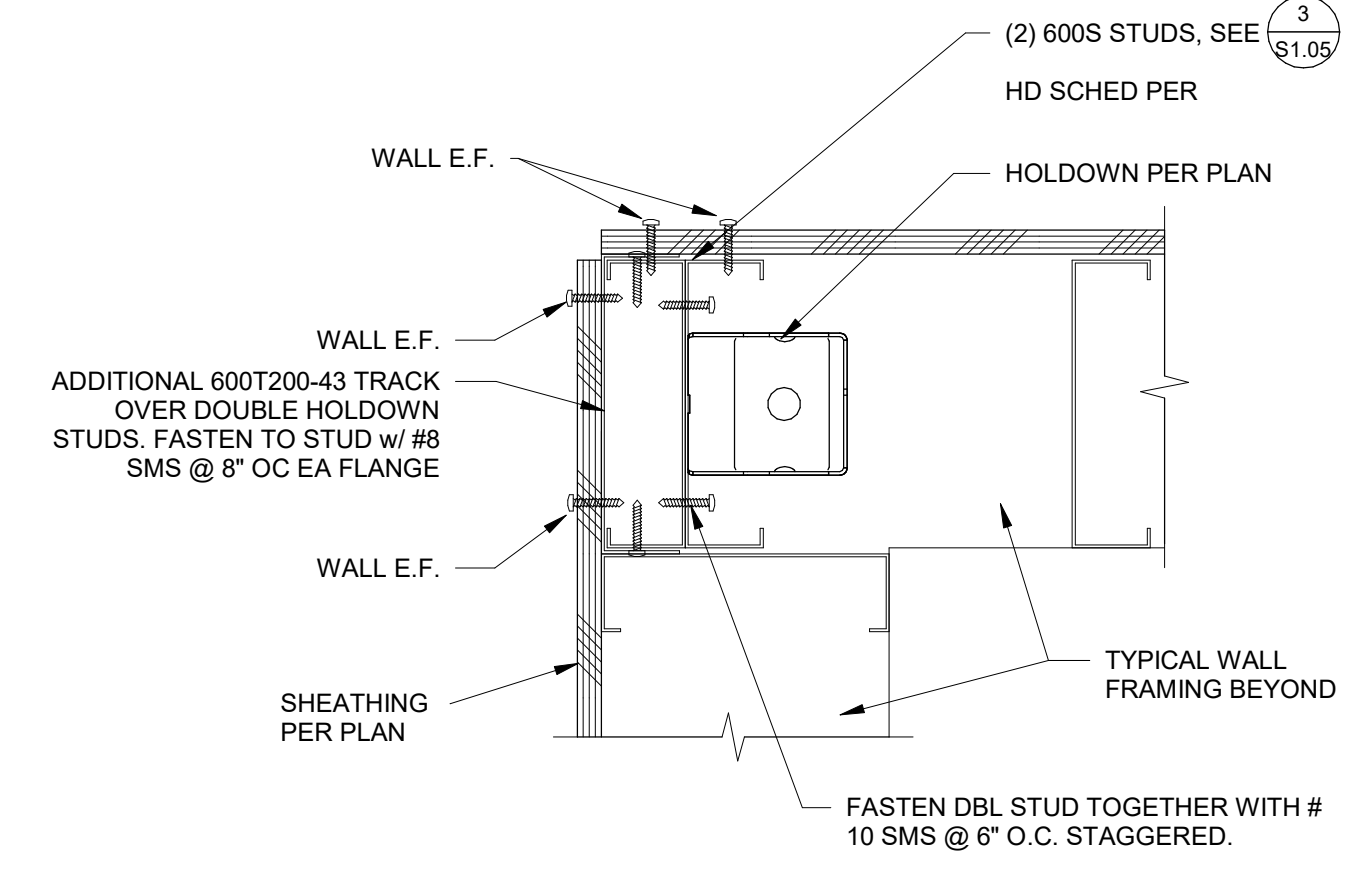
- NOTES:
- PLYWOOD SHEETS ARE TO BE AS LARGE AS POSSIBLE. JOINTS ARE TO BE CENTERED OVER BEARINGS. SHEET SIZE LESS THAN 24" IN DIMENSION ARE NOT PERMITTED. STAGGER ALL END JOINTS OF SHEATHING. OUTSIDE FACE GRAINS TO RUN PERPENDICULAR TO BEARING. BLOCKING ALL JOINTS AND EDGES.
 - MINIMUM FRAMING THICKNESS = 20 GAUGE, U.N.O.
 - PROVIDE MINIMUM #8 SCREWS FOR FRAMING THICKNESS OF 18 GAUGE OR LESS AND MINIMUM #10 SCREWS FOR FRAMING THICKNESS OF MORE THAN 18 GAUGE.

SECTION AT BLOCK



SHEATHING DIAPHRAGM

NO SCALE **4**
\$1.05



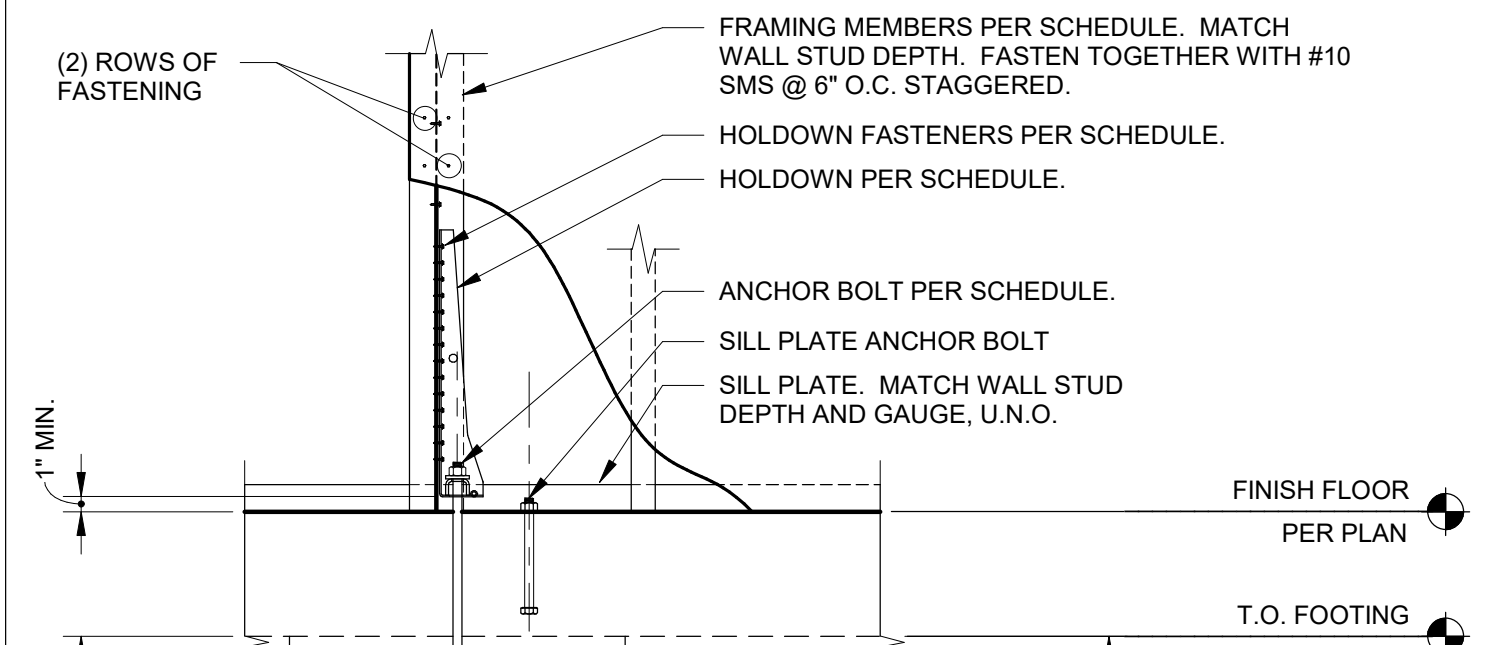
TYPICAL CORNER HOLDOWN DETAIL

3" = 1'-0" **5**
\$1.05

HOLDOWN SCHEDULE - LIGHT GAUGE STEEL

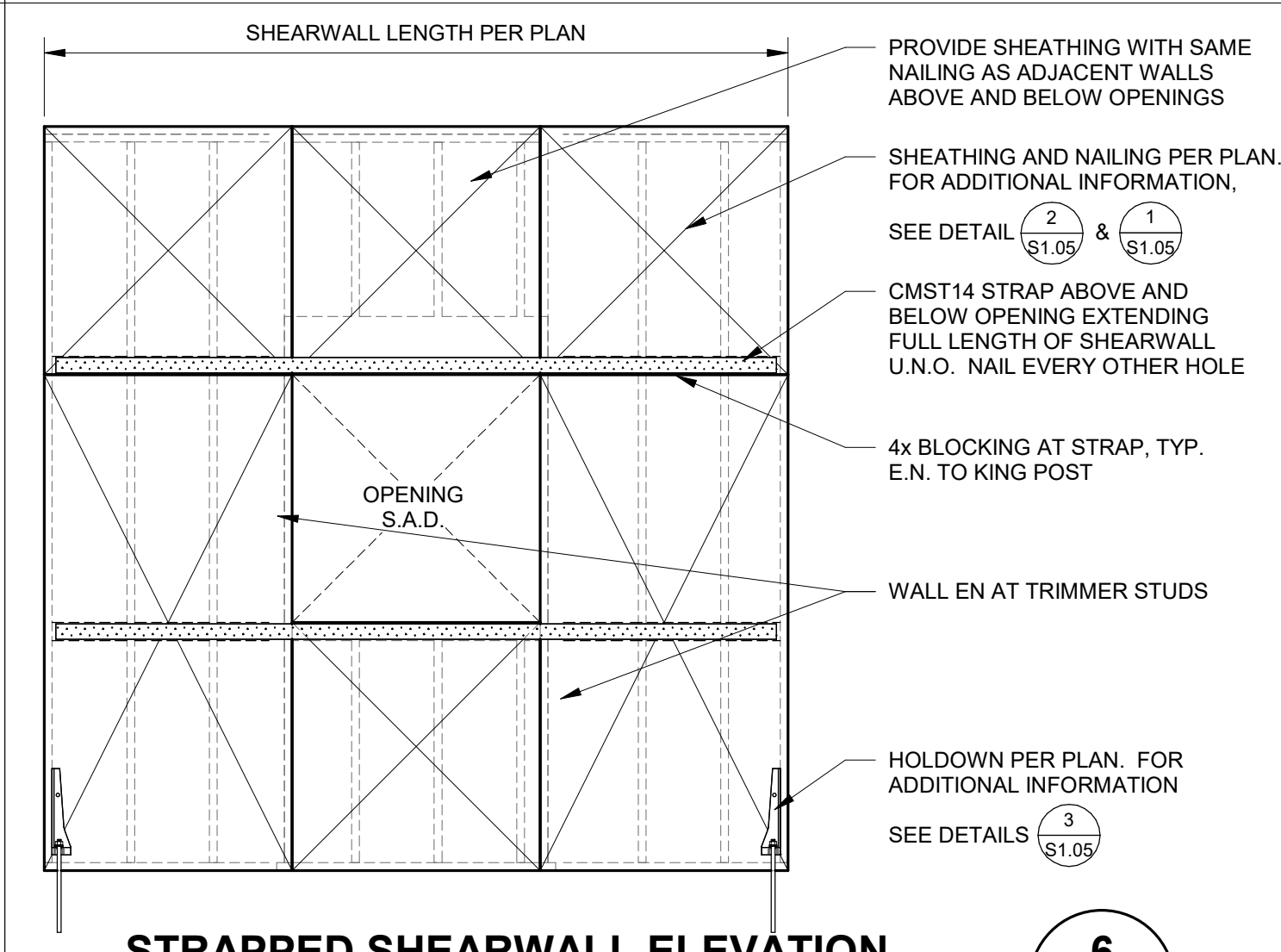
TYPE	DESCRIPTION	No. OF FASTENERS TO POST	THREADED ROD (ASTM F1554 GR-36)	END POST	SERVICE LOAD CAPACITY (LBS)	de	F
1	SIMPSON S/HDU4	(6) - #14	5/8"	(2) 600S200-43 MIN.	3,060#	6 1/2"	10"
2	SIMPSON S/HDU6	(12) - #14	5/8"	(2) S200-43 MIN.	4,900#	6 1/2"	10"
3	SIMPSON S/HDU9	(18) - #14	7/8"	(2) 600S200-54 MIN.	7,404#	10"	1'-3"

- ALL HOLDOWNS AND ANCHOR BOLTS IN THIS DETAIL ARE MANUFACTURED BY SIMPSON STRONGTIE. SEE PRODUCT CATALOG AND IAPMO REPORT UES ER-124 FOR ADDITIONAL INFORMATION.
- 1/4" SELF-TAPPING SCREWS MAY BE SUBSTITUTED FOR #14 SELF-TAPPING SCREWS.
- LOAD DEMAND SHOWN IS FOR WORST CASE WIND AND SEISMIC LOADING, AND LIMITING LOAD BETWEEN HOLDOWN AND ANCHOR BOLT. ANCHOR DESIGNS CONFORM TO ACI 318-14 CHAPTER 17 AND ASSUMES CRACKED CONCRETE WITH NO SUPPLEMENTARY REINFORCEMENT. 0.8 REDUCTION FACTOR APPLIED TO ALLOWABLE CAPACITY OF HOLDOWN.
- FOOTING SIZE SHOWN IS THE MINIMUM REQUIRED FOR CORRESPONDING ANCHOR BOLT AND EDGE/EMBEDMENT REQUIREMENTS de/F. ALL FOOTINGS SHALL BE CENTERED ON ANCHOR BOLT. AT LOCATIONS ON PLAN WHERE A LARGER FOOTING IS INDICATED, THE "F" VALUE SHALL BE MAINTAINED AS THE MINIMUM EDGE DISTANCE.



HOLDOWN AT FOOTING

NO SCALE **3**
\$1.05



STRAPPED SHEARWALL ELEVATION

3/8" = 1'-0" **6**
\$1.05

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APP: 03-123900 INC:
REVIEWED FOR
DATE: 08/05/2024



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER ST,
BAKERSFIELD, CA 93305

TRANSITIONAL KINDERGARTEN

Project Name:
MLK ELEMENTARY SCHOOL

Project Address:
1100 CITADEL
BAKERSFIELD, CA93307



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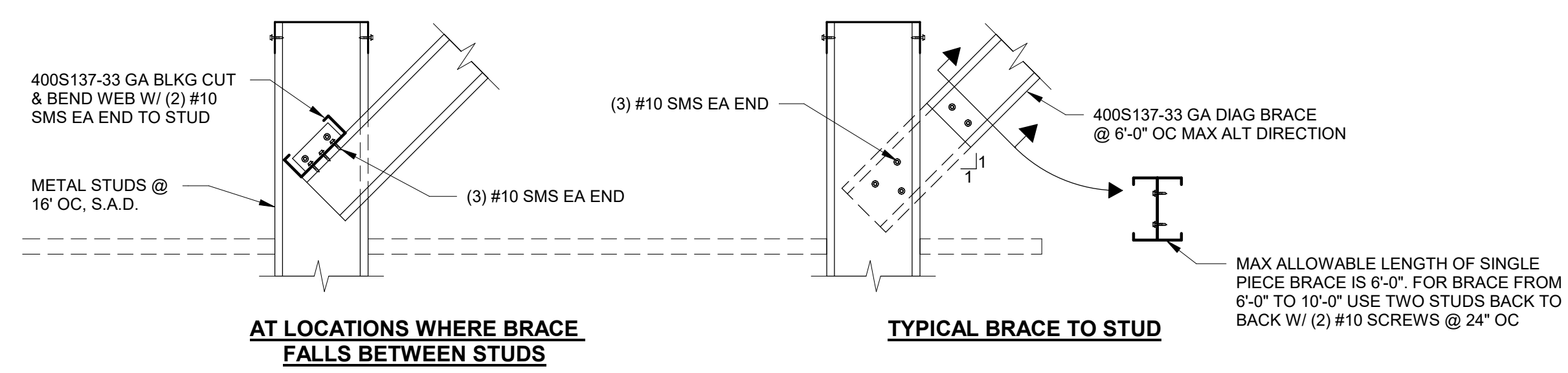
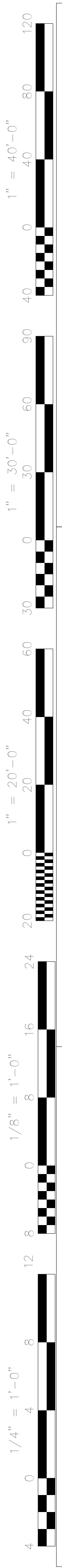


Sheet Title:
TYPICAL DETAILS No. 5

Job No.: **5593**

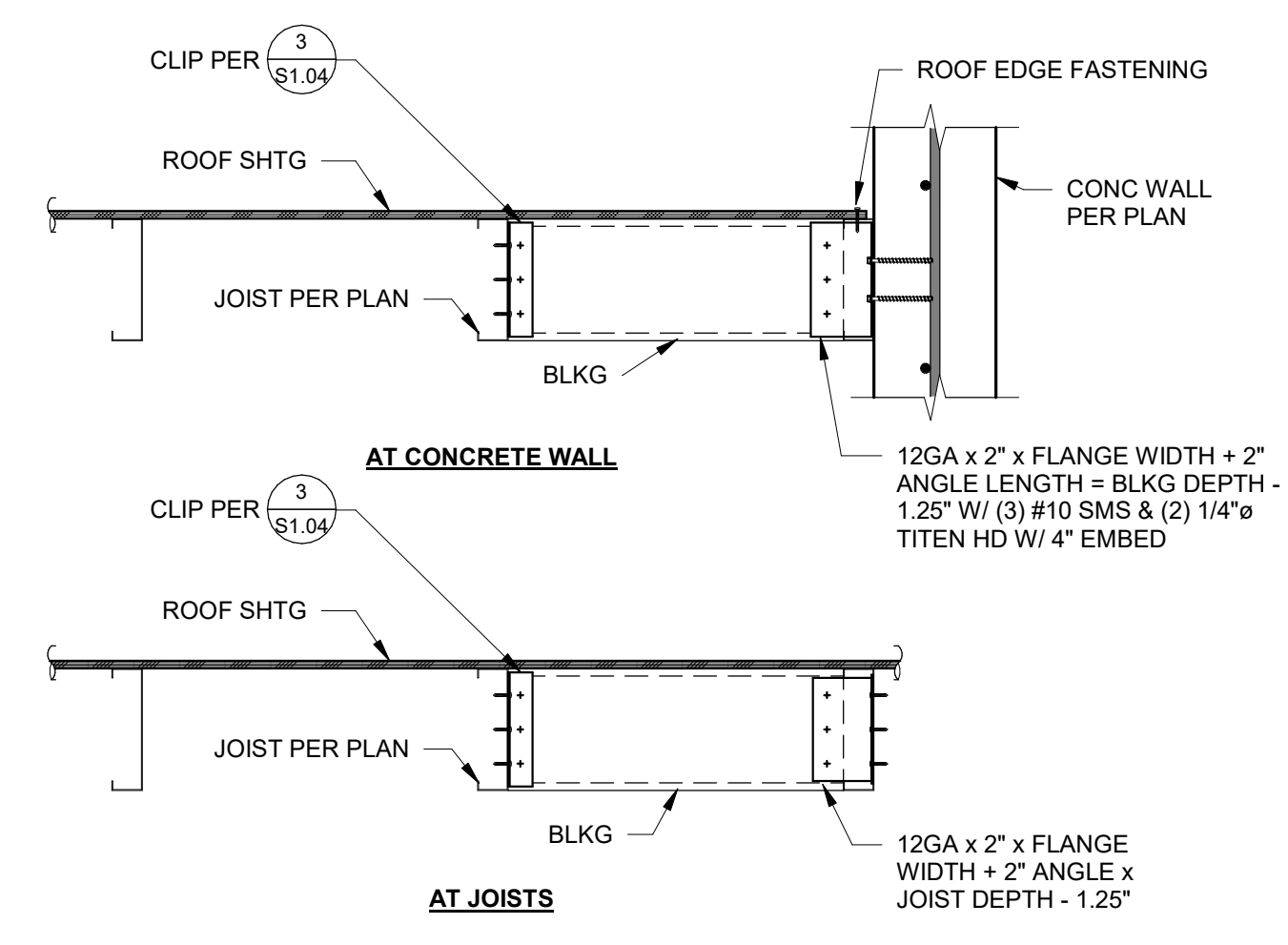
Sheet No.: **\$1.05**

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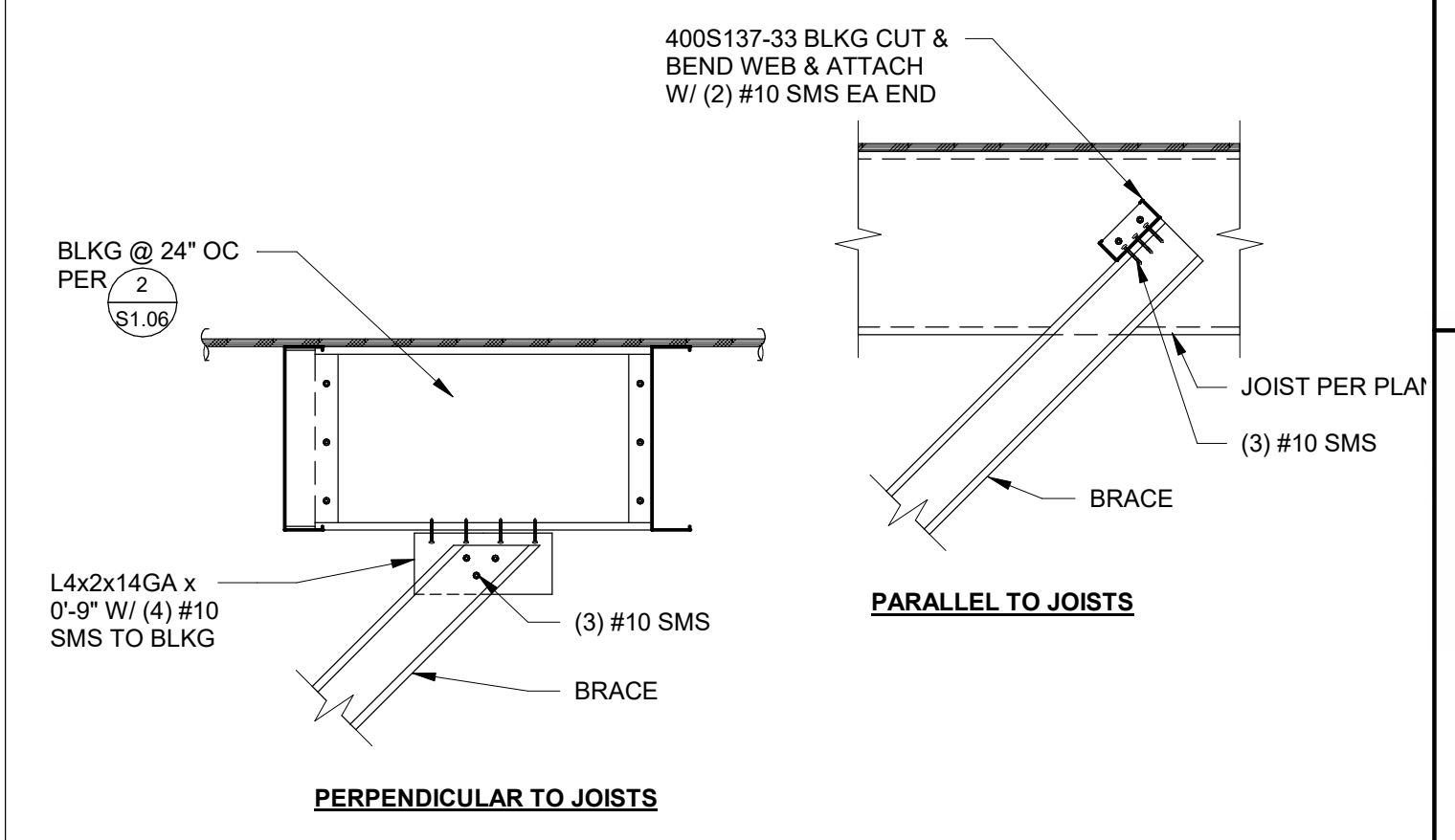
TYPICAL METAL PARTITION WALL BRACE DETAIL
NO SCALE

1
S1.06



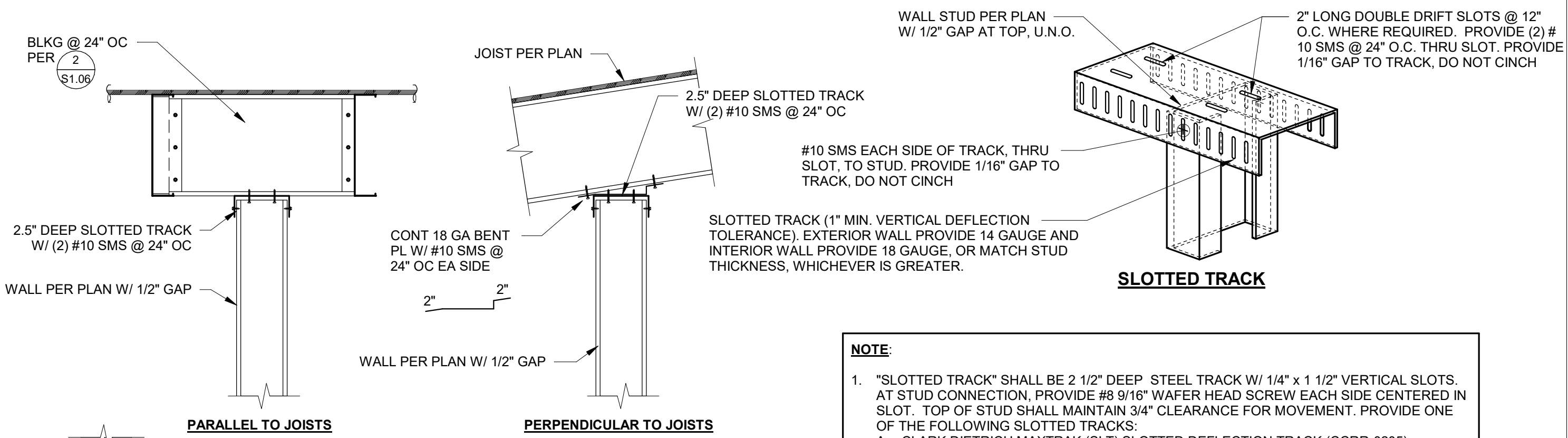
TYPICAL JOIST BLOCKING DETAIL
1" = 1'-0"

2
S1.06



TYPICAL TOP OF BRACE CONNECTION TO METAL STUD JOISTS
NO SCALE

3
S1.06

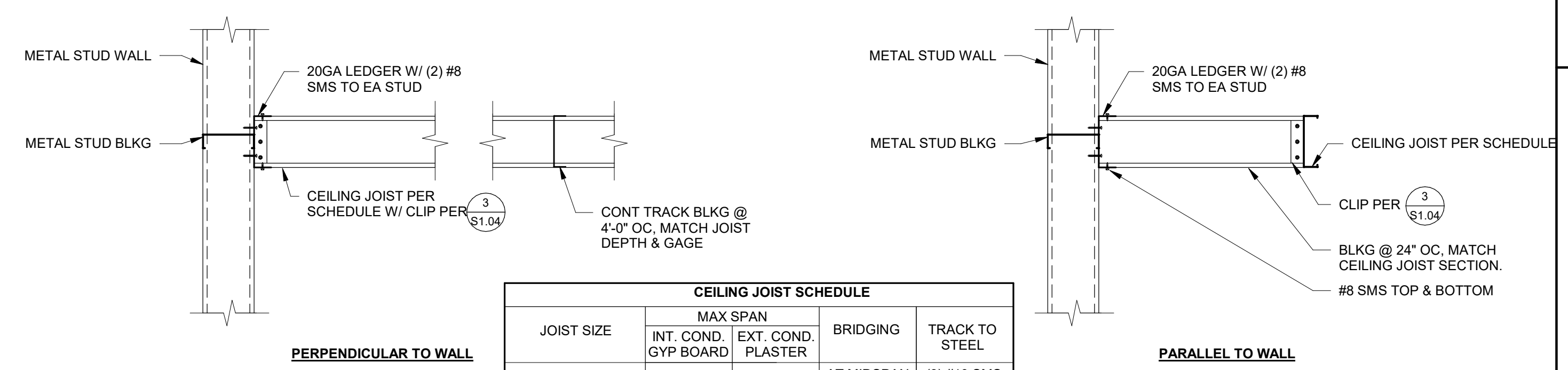


NOTE:

- "SLOTTED TRACK" SHALL BE 2 1/2" DEEP STEEL TRACK W/ 1/4" x 1 1/2" VERTICAL SLOTS. AT STUD CONNECTION, PROVIDE #8 9/16" WAFER HEAD SCREW EACH SIDE CENTERED IN SLOT. TOP OF STUD SHALL MAINTAIN 3/4" CLEARANCE FOR MOVEMENT. PROVIDE ONE OF THE FOLLOWING SLOTTED TRACKS:
 A. CLARK DIETRICH MAXTRAK (SLT) SLOTTED DEFLECTION TRACK (CCRR-0205)
 B. SCAFECO SLT STANDARD SLOTTED LEG TRACK (IAPMO ER-0283)
- FOR SEALANTS/BARRIERS ABOVE TOP TRACK SEE ARCH. DWGS. (i.e. ACOUSTIC, FIRE RATED WALLS)

TYPICAL TOP OF PARTITION WALL TO METAL STUD JOIST
NO SCALE

4
S1.06



JOIST SIZE	MAX SPAN		BRIDGING	TRACK TO STEEL
	INT. COND. GYP BOARD	EXT. COND. PLASTER		
400S162-33 @ 24" oc	8'-0"	7'-0"	AT MIDSPAN	(3) #10 SMS
600S162-33 @ 24" oc	10'-0"	9'-0"	AT MIDSPAN	(3) #10 SMS
600S162-43 @ 24" oc	12'-0"	11'-6"	AT 1/3 POINTS	(3) #10 SMS
800S162-43 @ 24" oc	14'-0"	13'-0"	AT 1/3 POINTS	(4) #10 SMS

TYPICAL CEILING DETAIL
NO SCALE

5
S1.06

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Sheet Title:
TYPICAL DETAILS No. 6

Job No.:
5593

Sheet No.:
S1.06
Release: DSA SUBMITTAL Date: 01-09-24



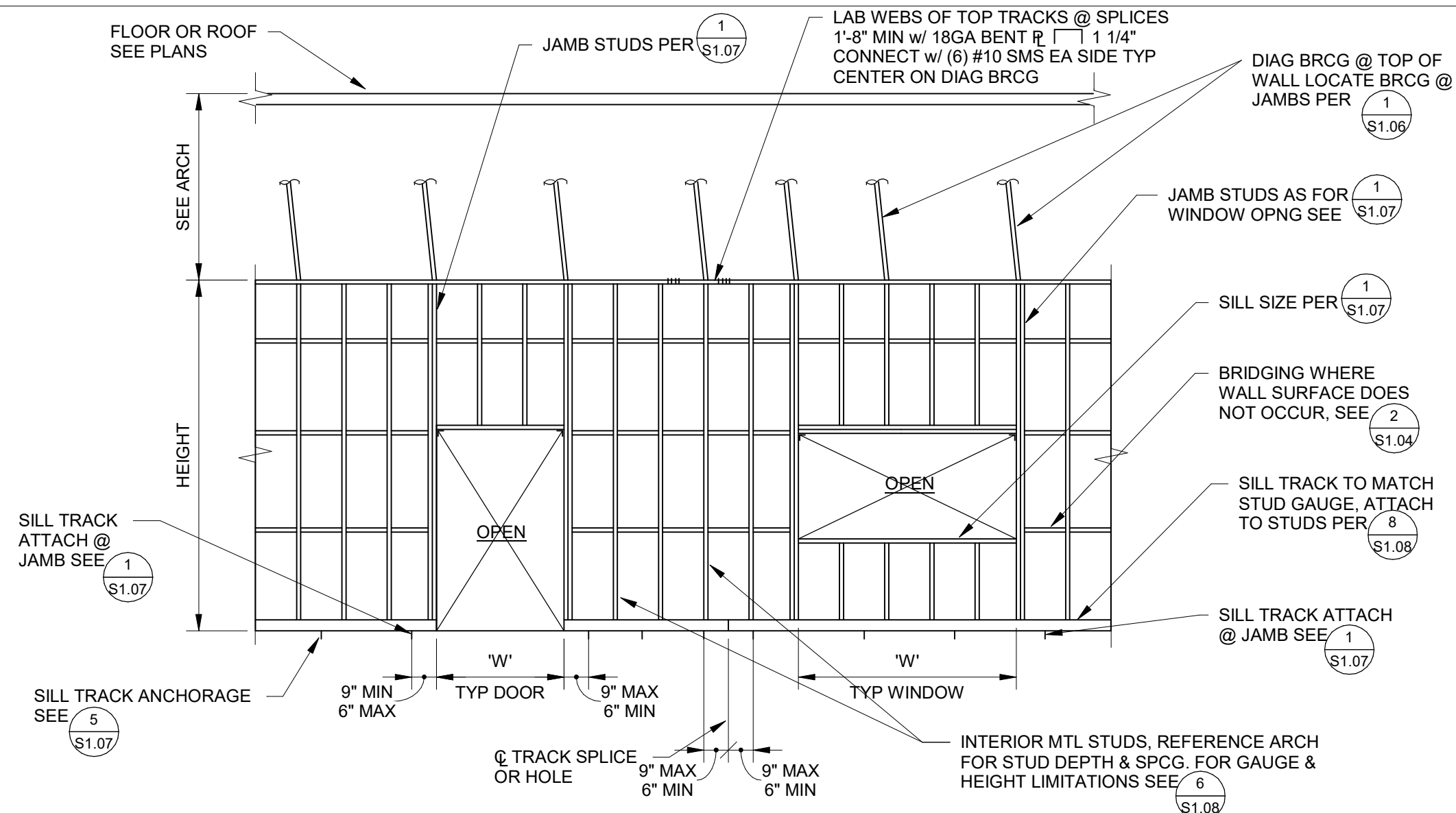
INTERIOR WALL OPENING FRAMING SCHEDULE					
DEFLECTION LIMIT = L/120, NON-BEARING					
W ¹³ MAX WIDTH	JAMBS	HEADER	SILL	HC4-8 SCREW SPCG	
4'-0"	J1 ^{2,3}	H2	S1	3 5/8" & 4" WALLS	6" & 8" WALLS
8'-0"	J2	H4	S1 ⁸		
12'-0"	J3	HC4-8 ^{4,5,13}	S2	8"CC	4"CC
16'-0"	J4	HC4-8 ^{5,6,7,13}	S4 ⁹	8"CC	4"CC

- NOTES:
- USE J2 MINIMUM AT DOOR OPENINGS.
 - USE J2 AT 4'-0" MAX OPNGS IN 20GA WALLS.
 - USE J2 AT 4'-0" MAX OPNGS IN 8"x18GA WALLS.
 - H4-8 MAY BE USED AT 12'-0" MAX OPNGS IN 16GA AND 14GA WALLS w/ THE EXCEPTION OF 8" WALLS.
 - USE 18GA MIN. HEADERS AT 12'-0" MAX OPNGS IN 8" WALLS.
 - USE 16GA MIN. HEADERS AT 16'-0" MAX OPNGS IN 3 5/8" & 4" WALLS.
 - USE 14GA MIN. HEAEERS AT 16'-0" MAX OPNGS IN 6" & 8" WALLS UNO.
 - USE HC4-10 HEADERS AT 16'-0" MAX OPNGS IN 8"x14GA WALLS.
 - USE S2 SILLS AT 8'-0" MAX OPNGS IN 3 5/8"x20GA, 4"x20GA, AND 6"x20GA WALLS. S2 MAY BE USED AT 16'-0" MAX OPNGS IN 16GA AND 14GA WALLS w/ THE EXCEPTION OF 3 5/8" WALLS.
 - FOR JAMB, HEADER, AND SILL DETAILS, SEE SHEET S1.07.
 - "H4-8" INDICATED HEADER TYPE AND DEPTH OF VERTICAL STUD ELEMENTS INSIDE HEADER. "HC4-8" INDICATED COMPOSITE HEADER w/ ADDL SCREW REQUIREMENTS, SEE SCHEDULE & S1.04.
 - "W" WIDTH IS THE MAX WIDTH OF A SINGLE OPENING OR THE COMBINED WIDTH OF SIDE BY SIDE OPENINGS THAT SHARE A SINGLE JAMB STUD CONFIGURATION.

INTERIOR WALL OPENING FRAMING SCHEDULE

NO SCALE

1
S1.07



PARTIAL HEIGHT INTERIOR METAL STUD WALL ELEVATION

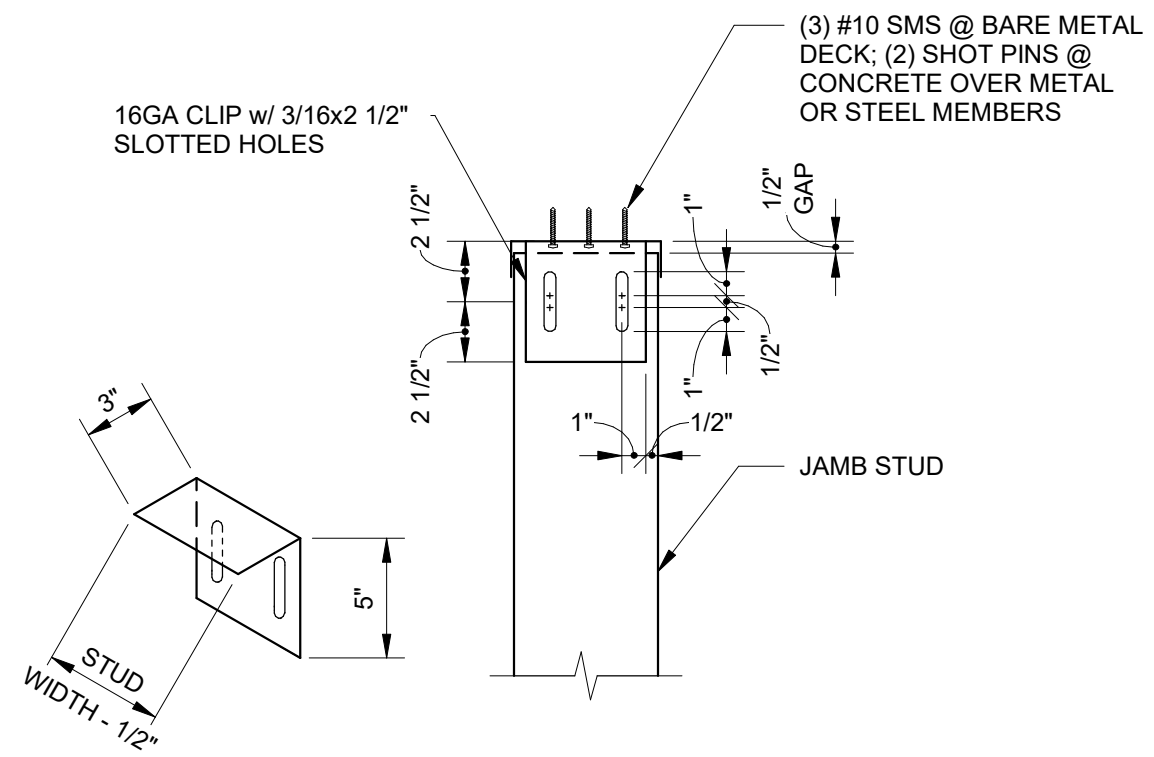
NO SCALE

2
S1.07

JAMB STUD AT SILL TRACK

NO SCALE

3
S1.07

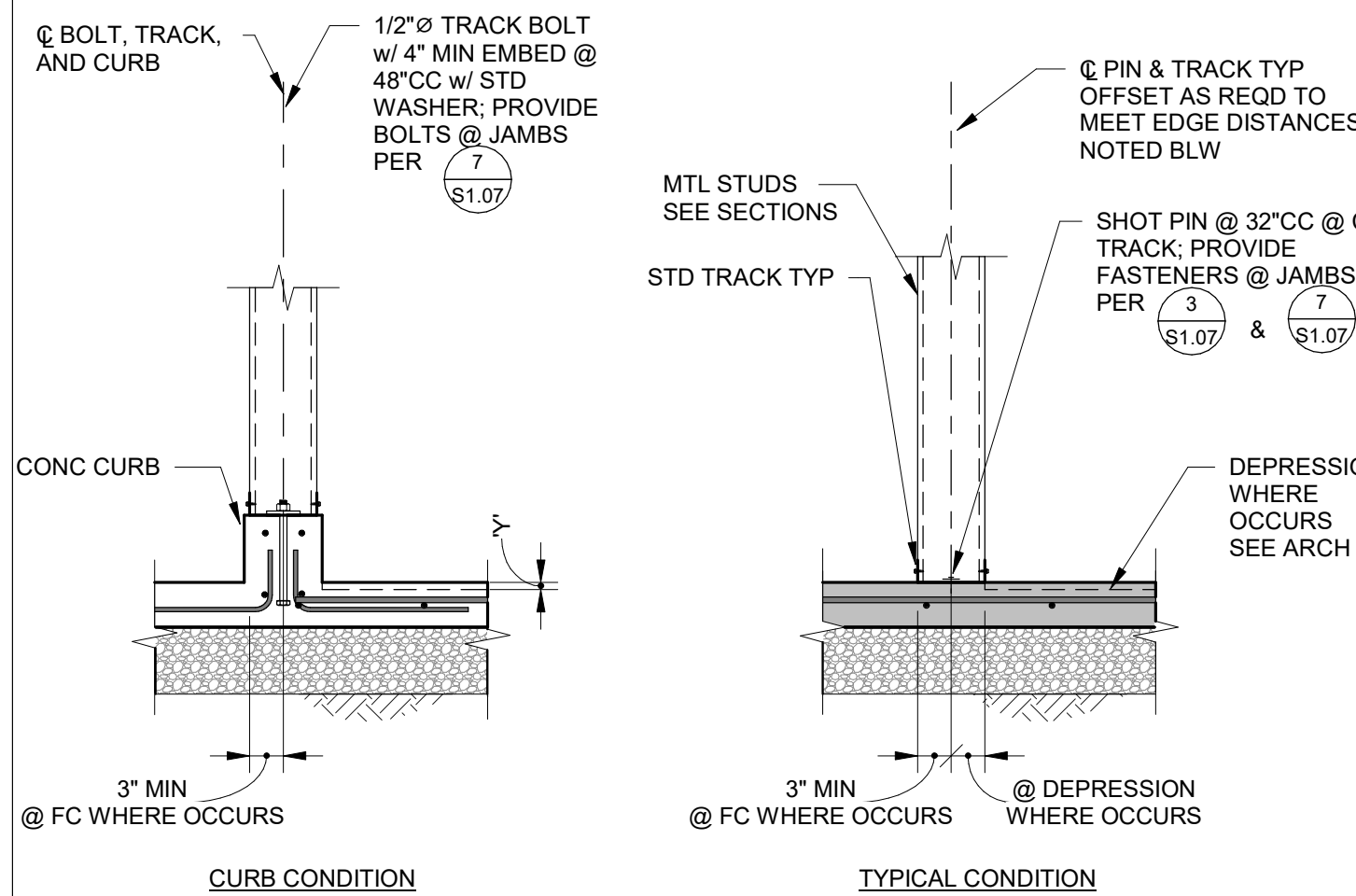


- NOTES:
- PROVIDE CLIP AT ALL EXTERIOR WALL JAMB STUDS AT SLOTTED TRACKS. PROVIDE CLIP AT ALL INTERIOR WALL DEFLECTION TRACKS WHERE OPENING WIDTH IS GREATER THAN 8'-0" WIDE. CLIP TO OCCUR ONE SIDE OF J2 JAMBS, BOTH SIDES OF J3 & J4 JAMBS.

JAMB STUD CLIP AT SLIP TRACK

NO SCALE

4
S1.07

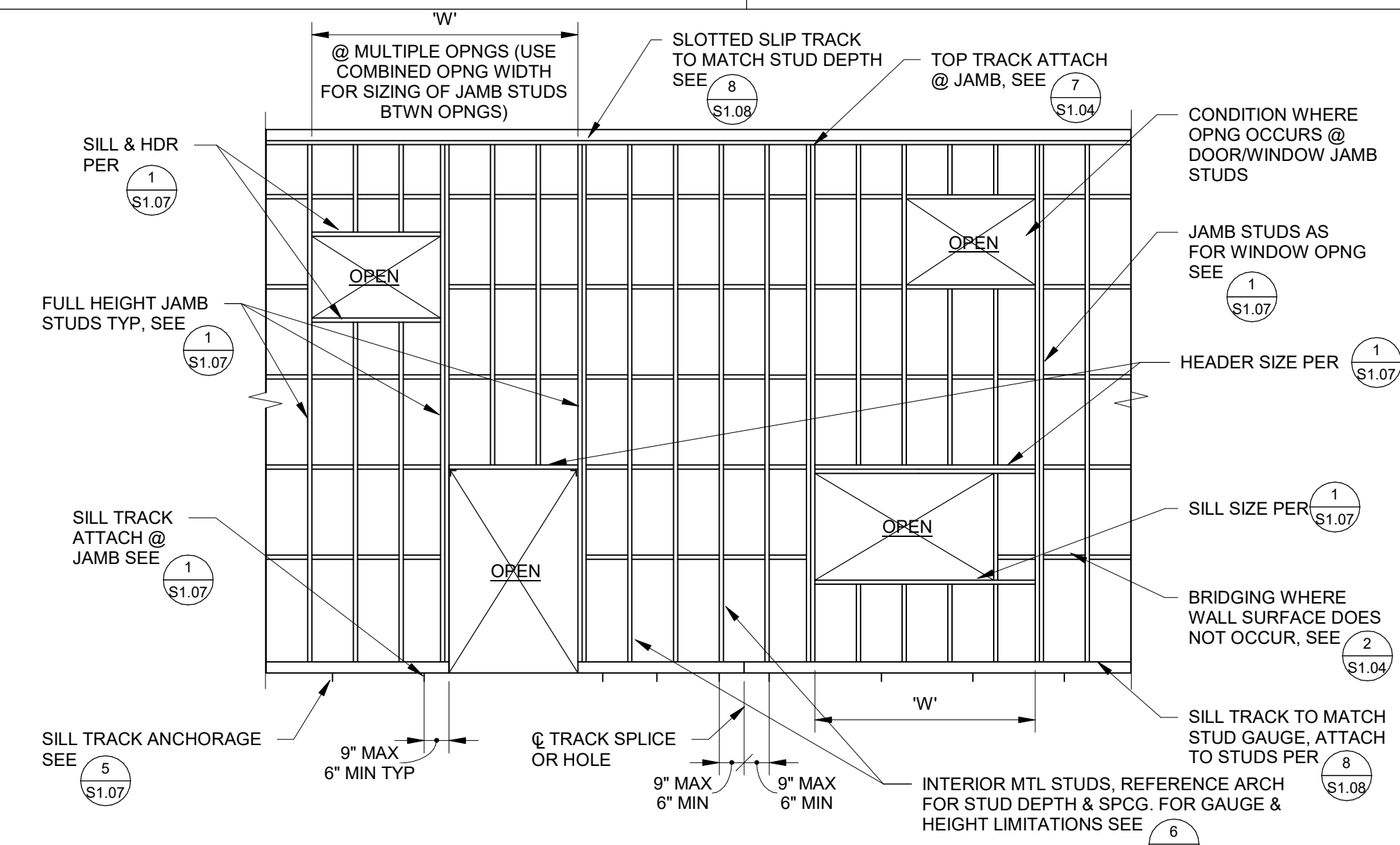


- NOTE: WHERE SLAB DEPRESSION OCCURS, VERIFY DEPTH 'Y' LOCATION & EXTENT w/ ARCH. WHERE 'Y' EXCEEDS 2" USE PROVISIONS OF CURB COND.

SILL TRACK TO SLAB

NO SCALE

5
S1.07



FULL HEIGHT INTERIOR METAL STUD WALL ELEVATION

NO SCALE

6
S1.07

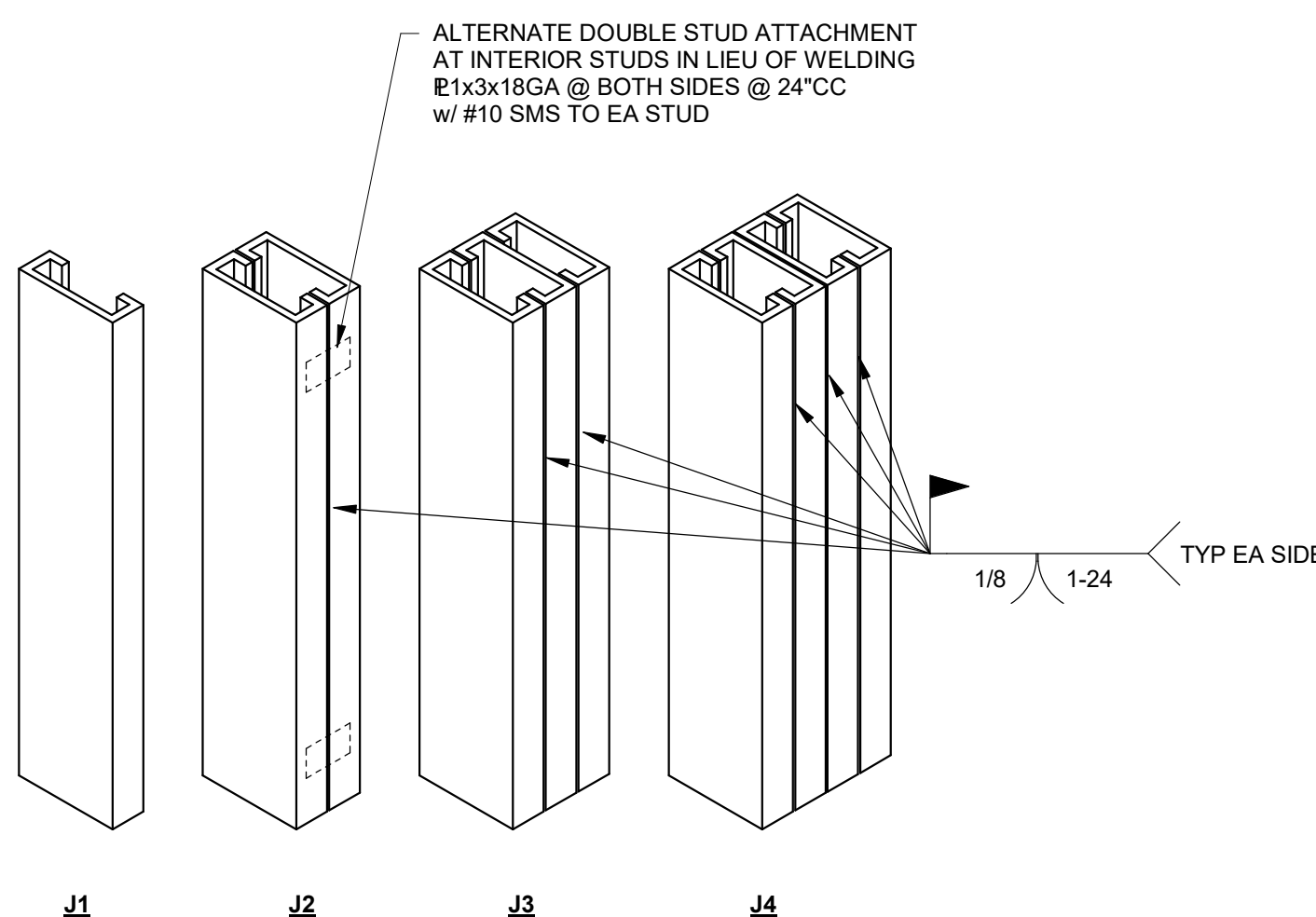
TRACK ATTACHMENT @ JAMB STUDS			
JAMB TYPE	TRACK ATTACHMENT METHOD		
	SHOT PIN	SMS	BOLTS
J1	1	1	1
J2	2	2	1
J3	3	3	1
J4	4	4	2 (SEE NOTE 3)

- NOTES:
- SCHEDULE INDICATES TRACK ATTACHMENTS REQUIRED WHERE JAMB STUDS OCCUR. SEE TYPICAL SILL AND TOP TRACK ATTACHMENT DETAILS FOR BASIC ATTACHMENT METHODS (I.E. SHOT PINS, SMS, BOLTS ETC...) & CONDITIONS BEYOND JAMB STUDS.
 - LOCATE ALL REQUIRED ATTACHMENTS AS CLOSE TO JAMB STUDS AS POSSIBLE. MAINTAIN ALL FASTENER SPACING AND EDGE DISTANCE REQUIREMENTS. AT SHOT PINS, SEE TYPICAL NOTES. AT SMS, MAINTAIN 1.5 x DIAMETER MIN EDGE DISTANCE & SPACING. AT BOLTS, SPACE NO CLOSER THAN 12 DIAMETERS AND NO MORE THAN 9" FROM END OF TRACK.
 - AT 16'-0" MAX WIDTH OPENINGS, PROVIDE CLIP L EA SIDE JAMB STUDS AT SILL PER 4/ X/S602 SIM - NO SLOTTED HOLES, w/ AB'S CENTERED ON L LEGS. AT DOOR OPENINGS, TURN HORIZ LEG OF CLIP AT ADJACENT TO DOOR UNDER JAMB STUDS AT NEXT AB WITHIN BUILT-UP JAMB STUDS.

TRACK ATTACHMENT @ JAMB STUDS

NO SCALE

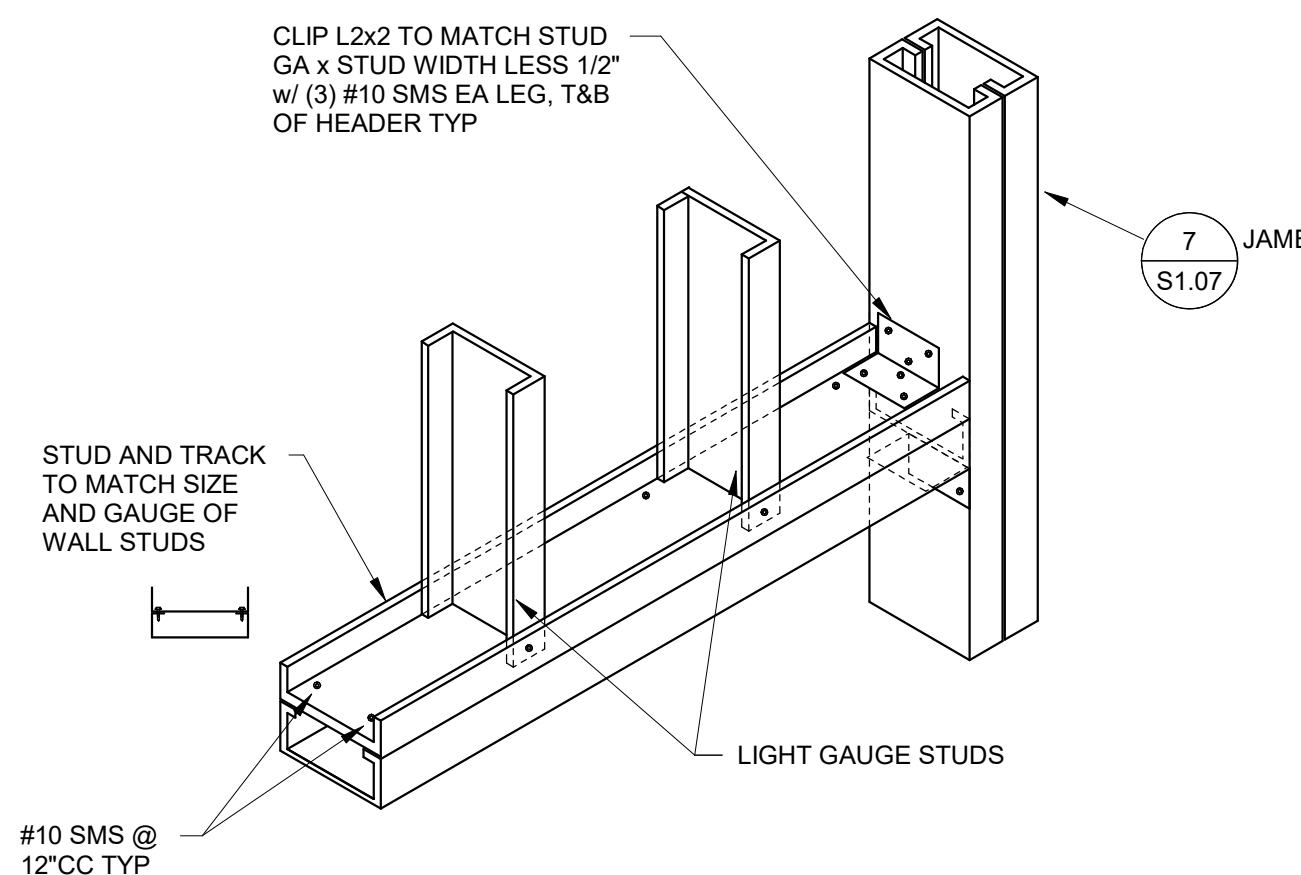
7
S1.07



JAMB DETAIL

NO SCALE

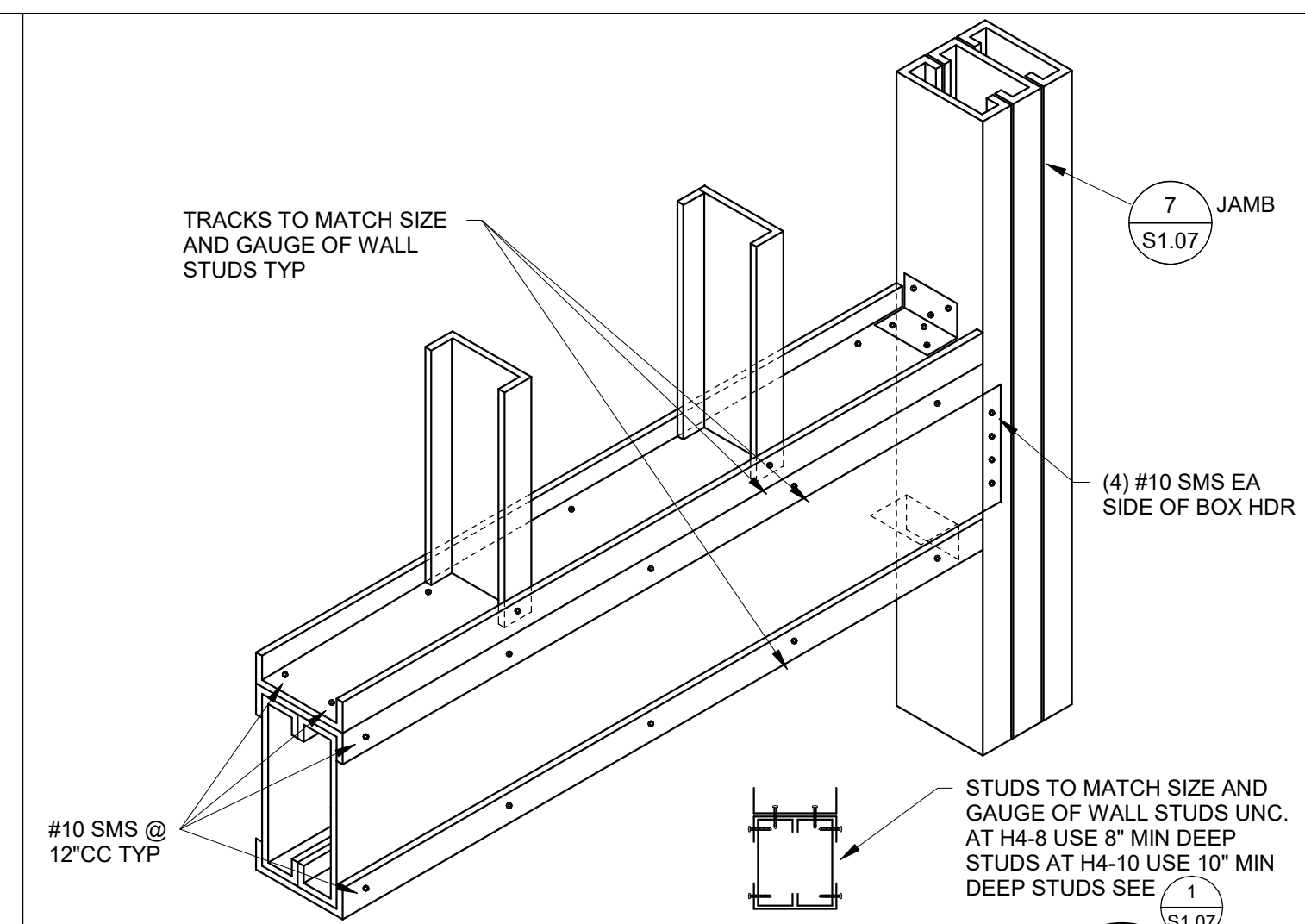
8
S1.07



H2 HEADER DETAIL

NO SCALE

9
S1.07



H4/HC-4 HEADER DETAIL

NO SCALE

10
S1.07

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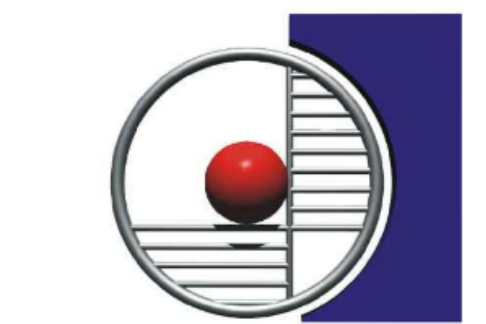
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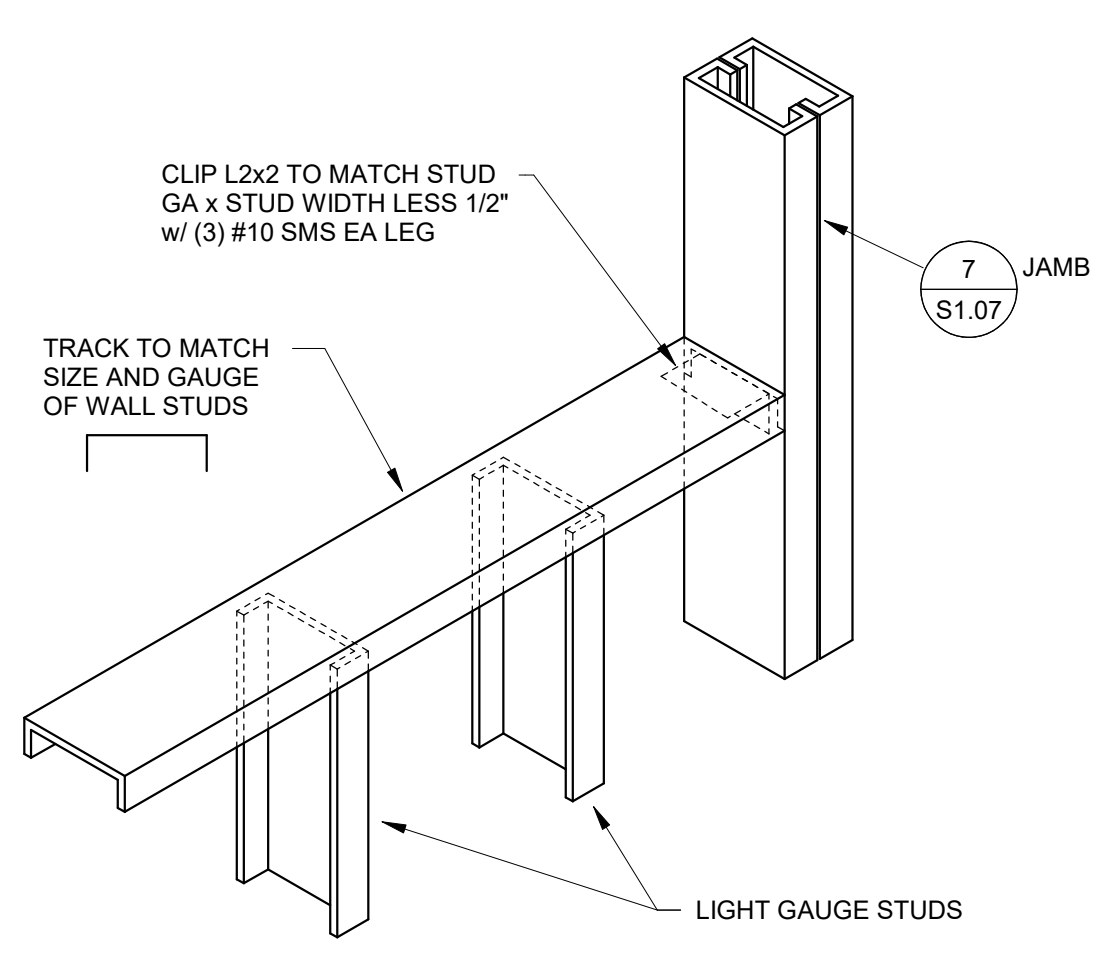
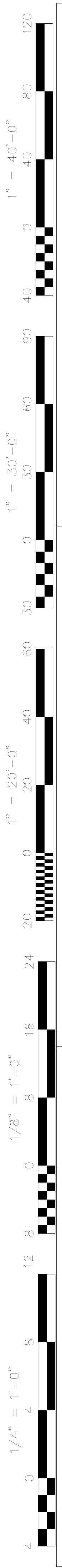


TYPICAL DETAILS No. 7

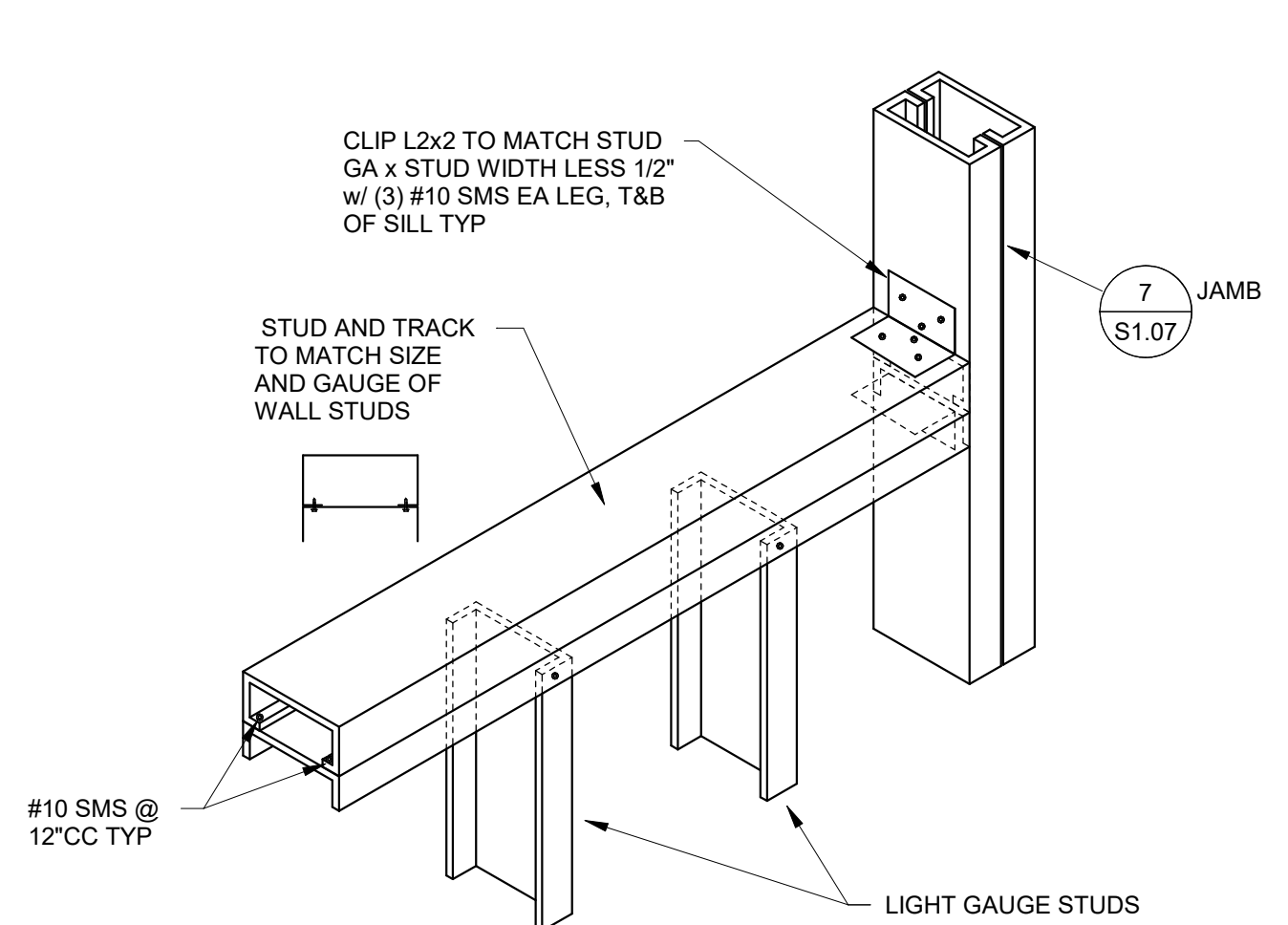
Job No.: 5593

Sheet No.: S1.07

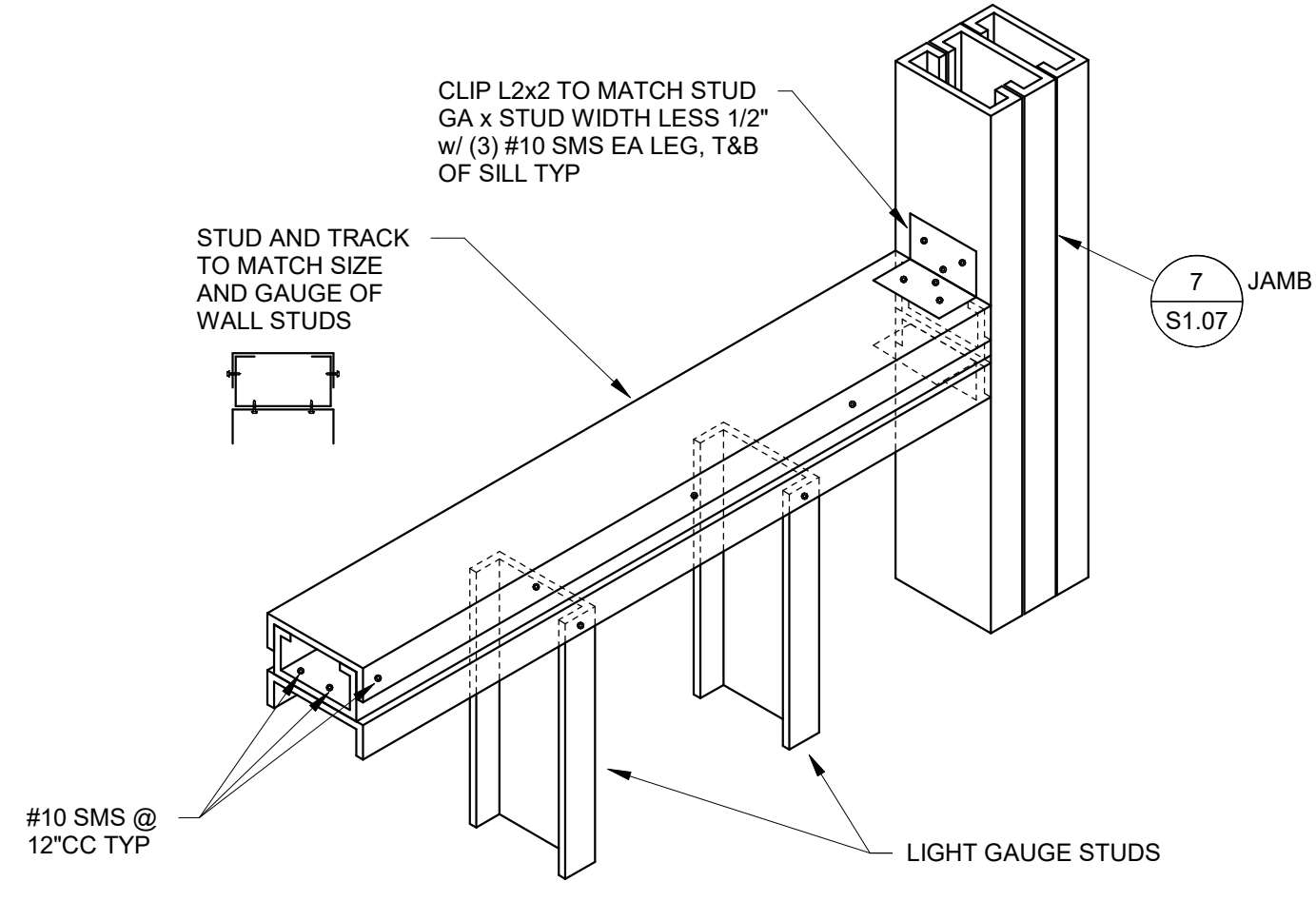
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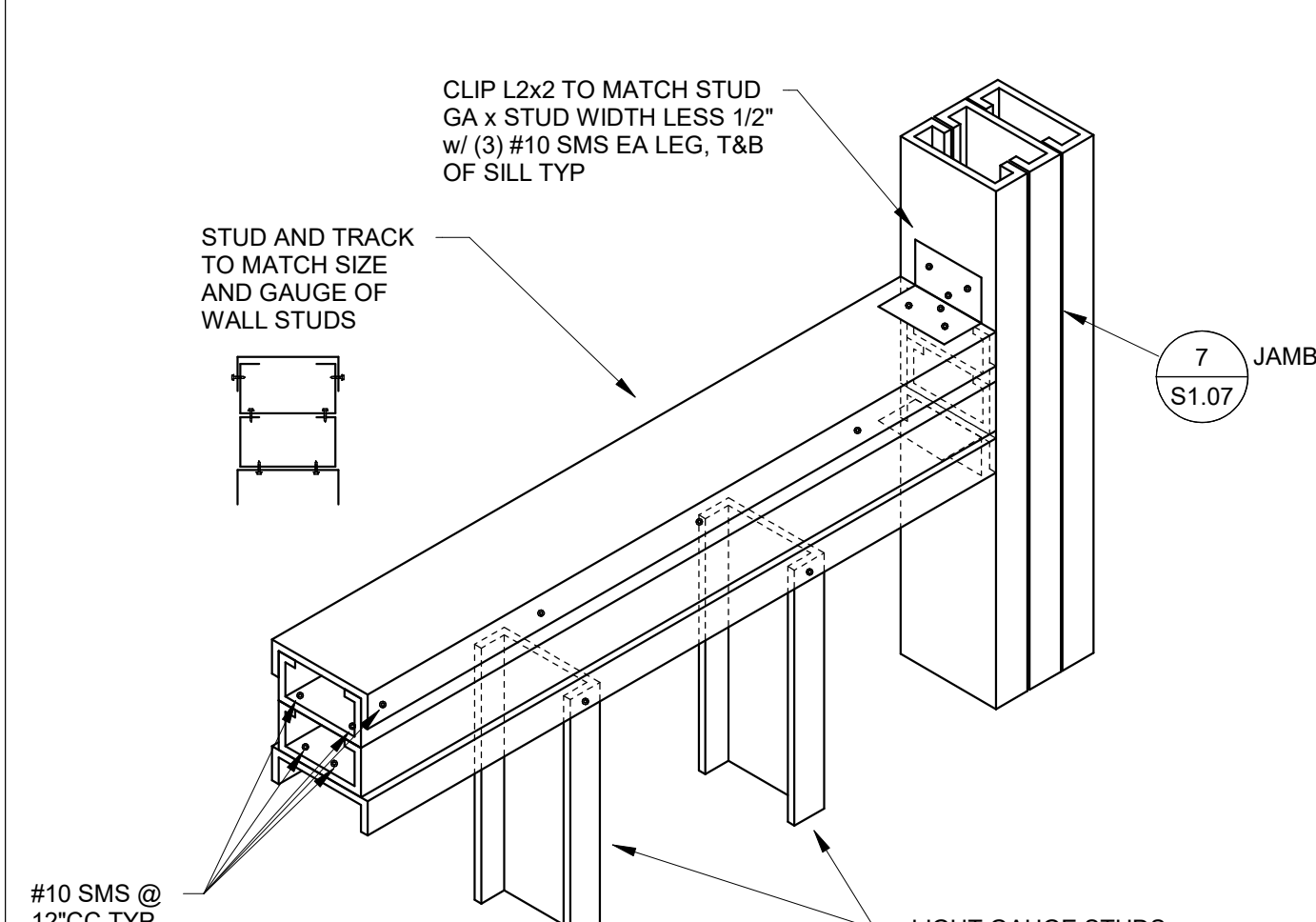
S1 SILL DETAIL
NO SCALE



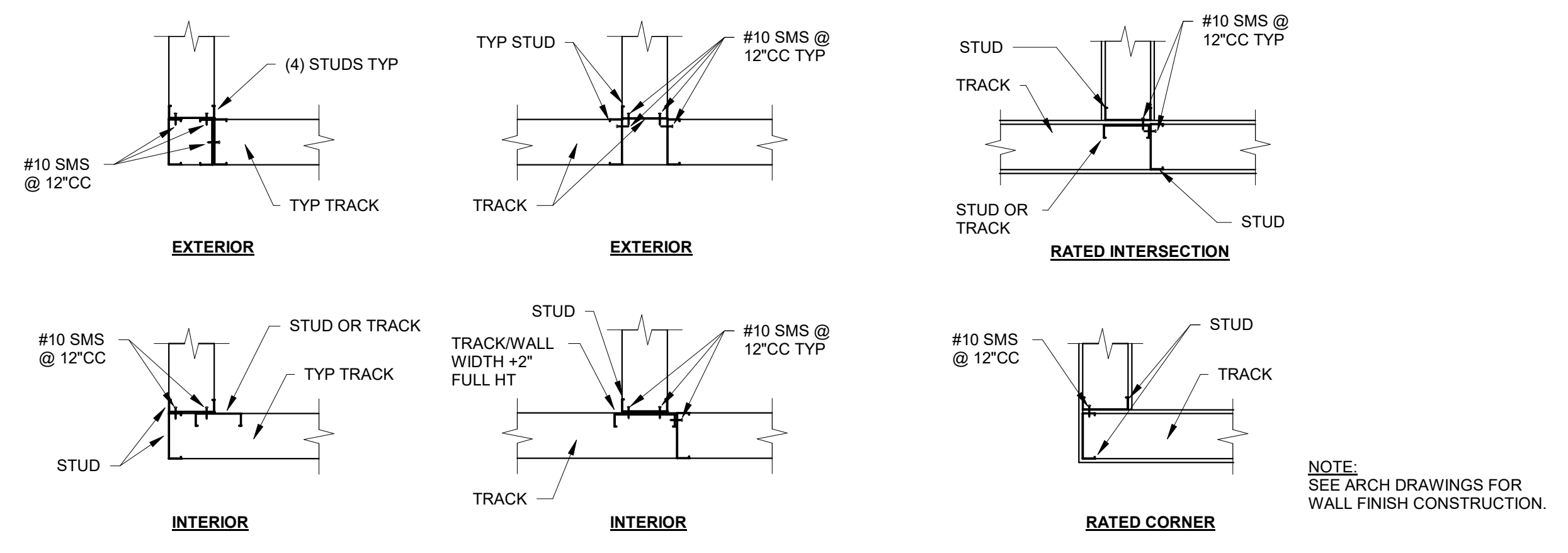
S2 SILL DETAIL
NO SCALE



S3 SILL DETAIL @ EDGE
NO SCALE



S4 SILL DETAIL
NO SCALE



LGS - TYPICAL WALL INTERSECTION DETAILS
NO SCALE

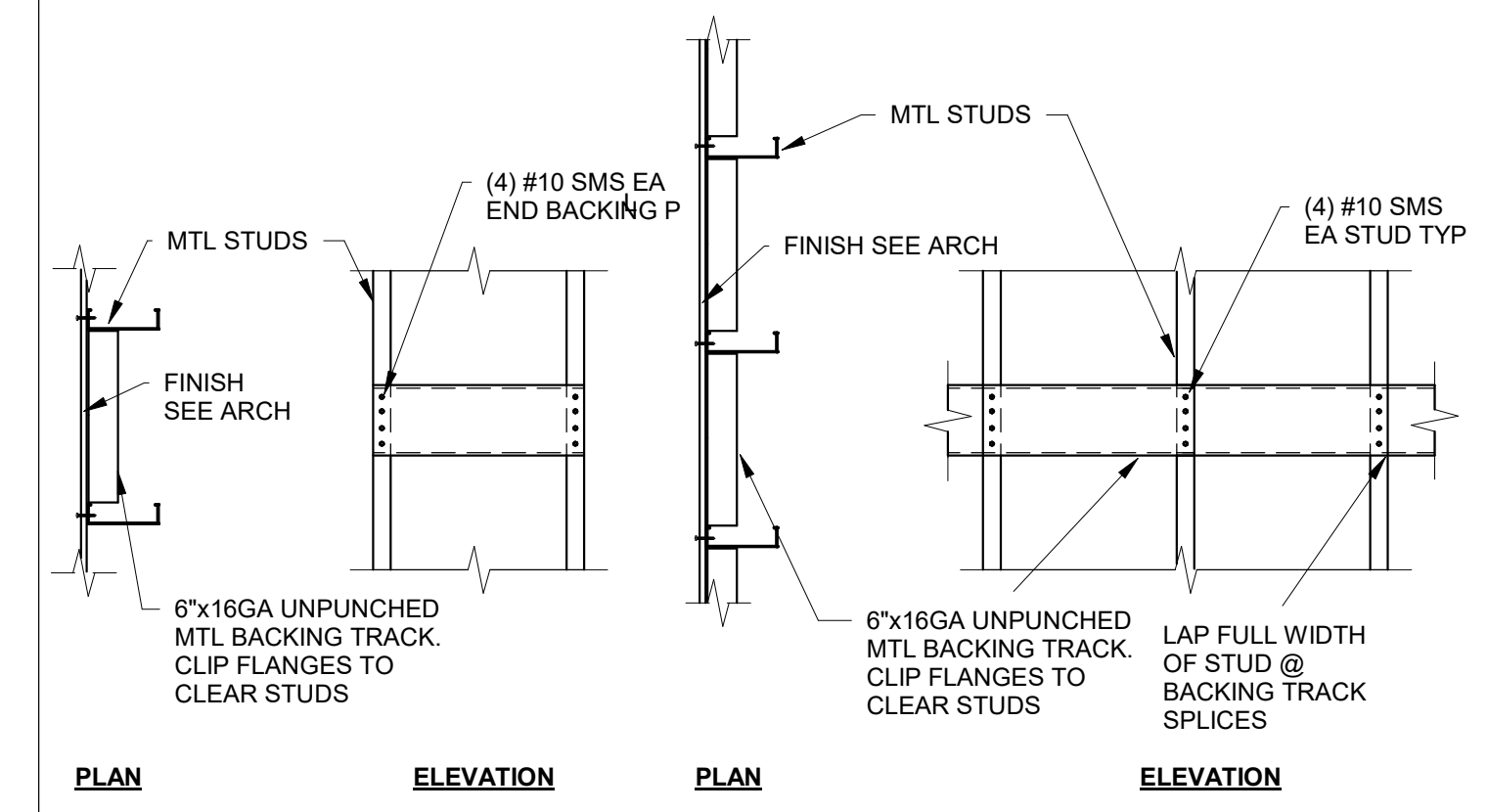
INTERIOR METAL STUD PARTITIONS

MAXIMUM HEIGHT FOR METAL STUDS WITH $S_{cs}=0.75$, $I_n=1.0$
DEFLECTION LIMIT $L/120$, NON-BEARING WITH CABINET OR EQUIPMENT

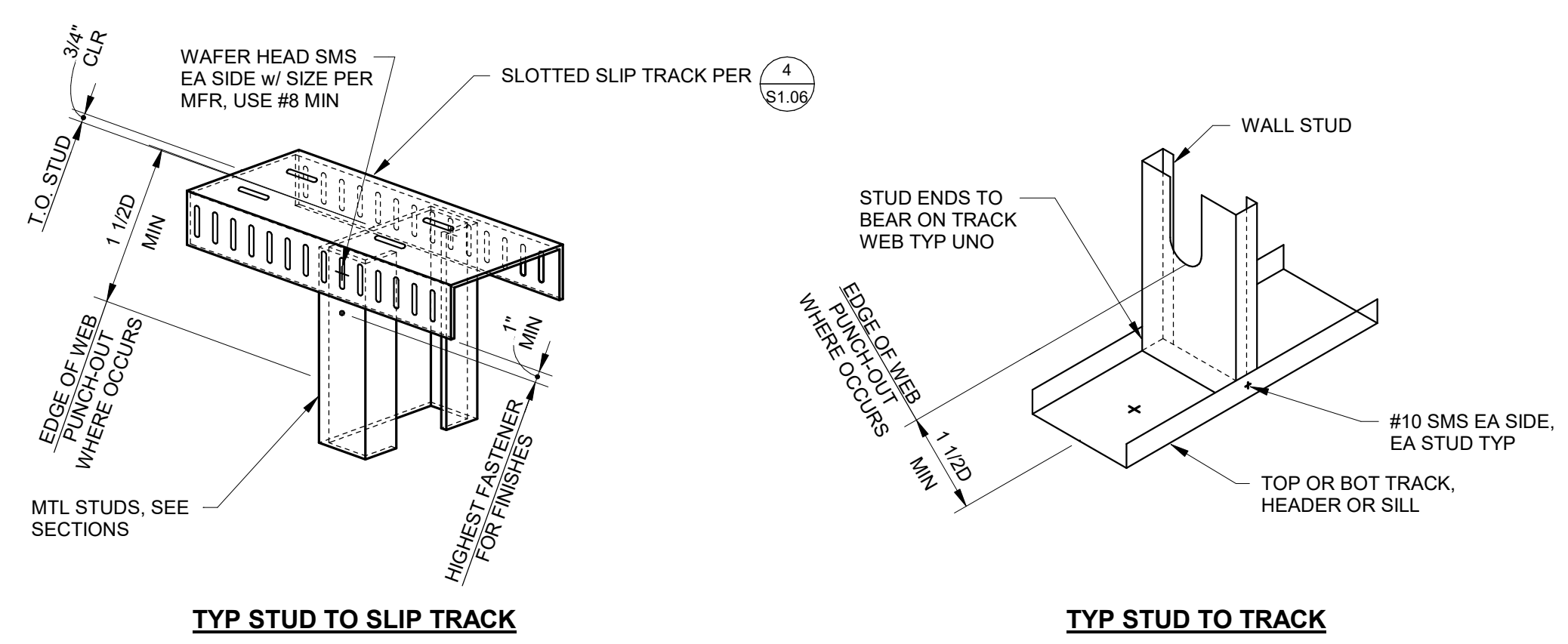
16"CC SPACING			
DEPTH	GAGE	DESIGNATION ³	MAX HEIGHT
6"	20	600S162-33	22'-6"
6"	18	600S162-43	26'-3"
6"	16	600S162-54	32'-0"
6"	14	600S162-68	35'-6"

- NOTES:**
- STUDS SHALL BE DEPTH AS INDICATED ON ARCH DRAWINGS AND GAUGE AS DETERMINED BY THIS SCHEDULE.
 - DESIGNATION CONFORMS TO STEEL STUD MANUFACTURER'S ASSOCIATION STANDARDS.
 - THE MAX HEIGHTS NOTED IN THIS SCHEDULE ARE BASED ON THE USE OF SEISMIC COMPONENT LOAD F_r OR A LIVE LOAD OF SPFS, WHICHEVER GOVERNS.

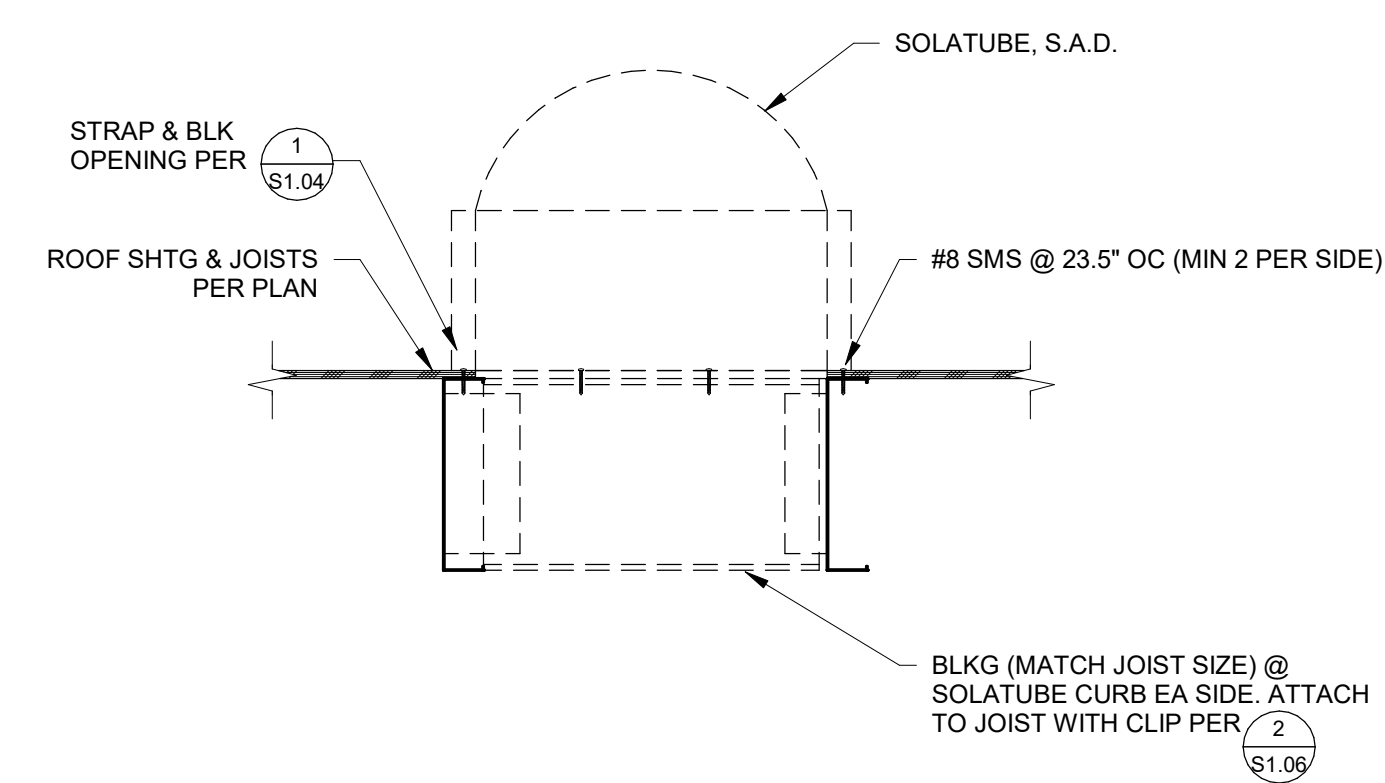
INTERIOR METAL STUD PARTITION
NO SCALE



LGS - BACKING ATTACHMENT DETAIL
NO SCALE



STUD TO TRACK CONNECTION
NO SCALE



SOLATUBE ANCHORAGE
1" = 1'-0"

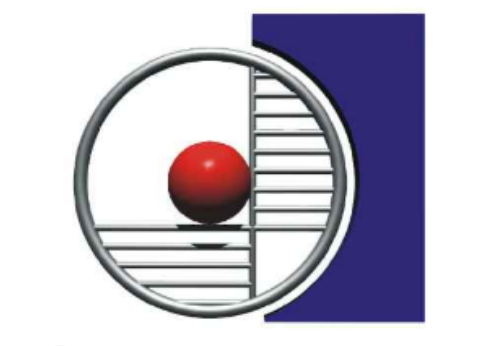
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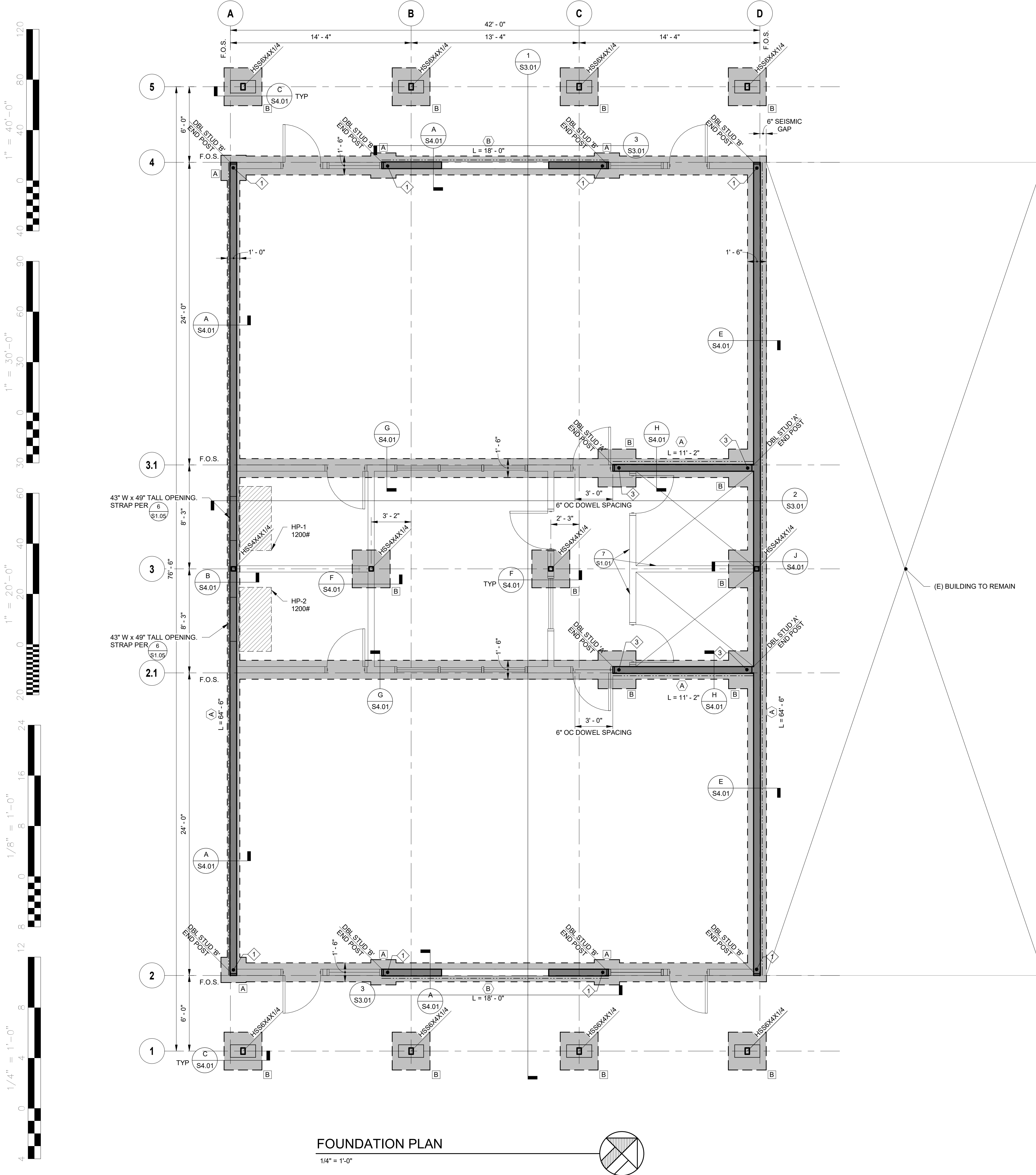


Sheet Title:
TYPICAL DETAILS No. 8

Job No.:
5593

Sheet No.:
S1.08
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FOUNDATION PLAN
1/4" = 1'-0"

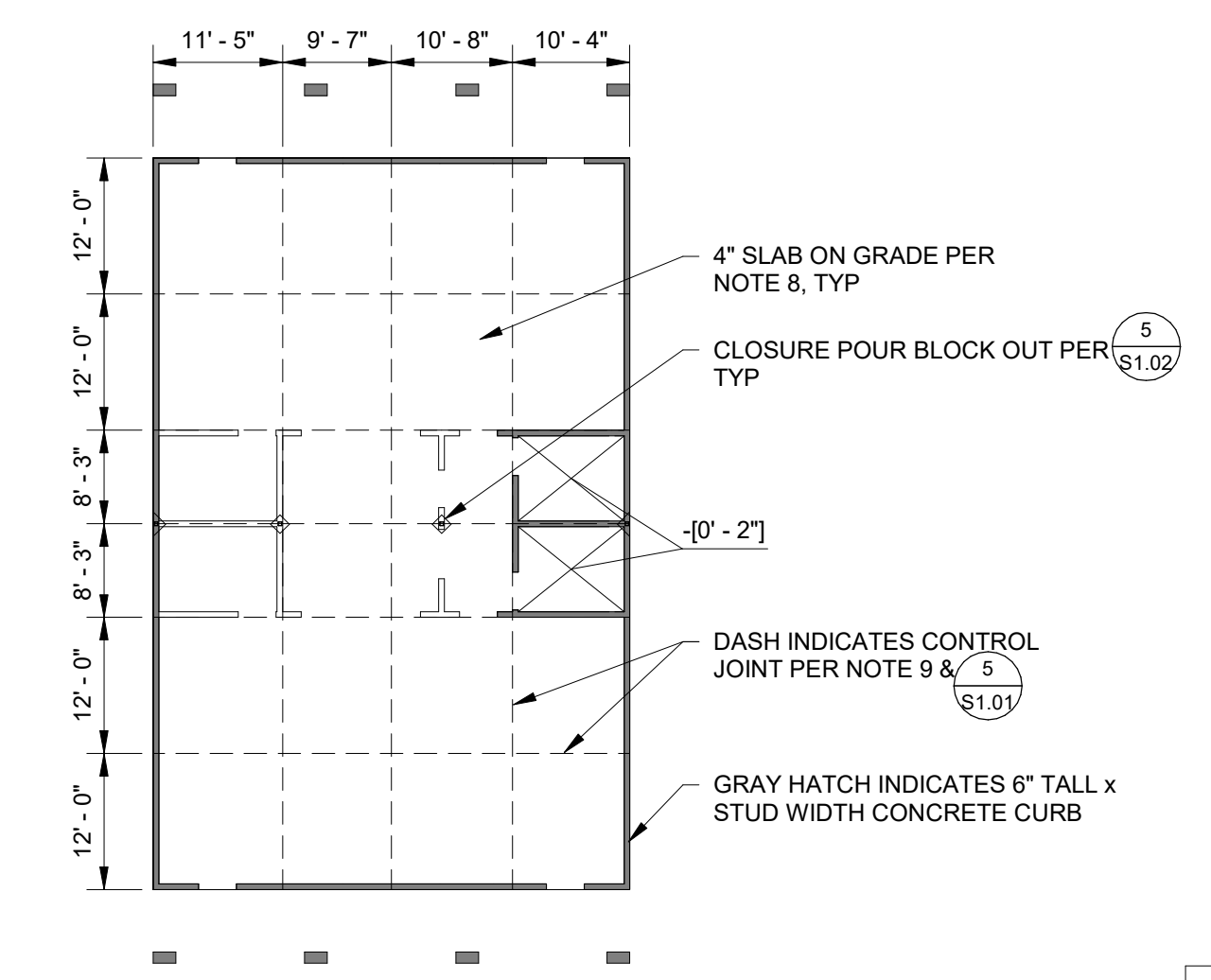
FOUNDATION PLAN NOTES:

- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.01 & S0.02.
- SEE SHEET S1.01-S1.08 FOR TYPICAL DETAILS.
- TOP OF SLAB & GROUND FLOOR REFERENCE ELEVATION = +[0' - 0"] TYP. U.N.O.
- FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT.
- SEE DETAIL FOR BUILDING PAD PREPARATION, INCLUDING OVER EXCAVATION AND FILL REQUIREMENTS. FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
- THE SIZE & LOCATION OF ALL FOOTING AND SLAB PENETRATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
- 4" THICK SLAB-ON-GRADE SECTION AS FOLLOWS: 4" THICK CONCRETE SLAB w/ #4 @ 18" O.C. EACH WAY AT 2" BELOW TOP OF SLAB. PLACE SLAB OVER SLAB MEMBRANE AND MINIMUM 3" OF 3/4" CRUSHED ROCK.
- CONTROL JOINTS ARE TO BE INSTALLED @ 12'-6" O.C. MAX AS SHOWN.
- CONCRETE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL EMBEDDED ITEMS.
- ANCHOR BOLTS AND BASE PLATES SHALL NOT BE WET SET.
- ALL DIMENSIONS ARE TO CENTERLINE OF COLUMNS OR FACE OF STUD, TYPICAL UNLESS NOTED OTHERWISE.
- STUDWALL CONSTRUCTION SHALL BE:
600T150-43 SILL PLATE & TOP PLATE, U.N.O.
5/8" I.D. AB @ 32" O.C. W/ 8" MIN EMBED BELOW TOP OF SLAB.
THE OUTSIDE FACE OF EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" OSB SHEATHING. EDGE/BOUNDARY FASTENING SHALL BE #8 SMS @ 6" OC & FIELD FASTENING SHALL BE #8 SMS 12" O.C.

- INDICATES DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
- INDICATES GRID
- INDICATES FOOTING
- INDICATES DEPRESSED SLAB ELEVATION
- INDICATES STEP/DEPRESSION
- INDICATES SHEARWALL CONSTRUCTION WITH NAILING TAG & LENGTH. SEE SCHEDULE
- INDICATES SHEARWALL HOLDOWN & END POST PER
- INDICATES METAL STUDWALL. SEE PLAN NOTES
- INDICATES FOUNDATION TAG. SEE SCHEDULE BELOW.
- INDICATES TOP OF FOOTING ELEVATION BELOW TOP OF SLAB. TOP OF FOOTING SHALL BE 1'-0" BELOW TOP OF SLAB, UNO
- INDICATES NEW MECHANICAL UNIT ON SLAB. ANCHOR TO SLAB PER MECHANICAL DRAWINGS
- 'A' INDICATES DBL 600S200-54 END POST
- 'B' INDICATES DBL 600S200-43 END POST

FOOTING SCHEDULE				
TYPE	SIZE	REINFORCING		REMARKS
		LONGITUDINAL	TRANSVERSE	
A	2'-0" x 2'-0"	2 - #5	2 - #5	1, 3
B	3'-0" x 3'-0"	3 - #5	3 - #5	1, 3

- NOTES:
- RUN CONTINUOUS STEEL THROUGH FOOTING.
 - REINFORCING INDICATES BOTTOM MAT ONLY.
 - REINFORCING INDICATES TOP AND BOTTOM MAT.



CURB & SLAB PLAN
1/16" = 1'-0"

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FOUNDATION PLAN

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Sheet No.:
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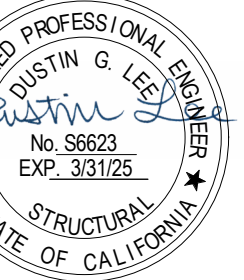
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Sheet Title:

BUILDING SECTIONS

Job No.:

5593

Sheet No.:

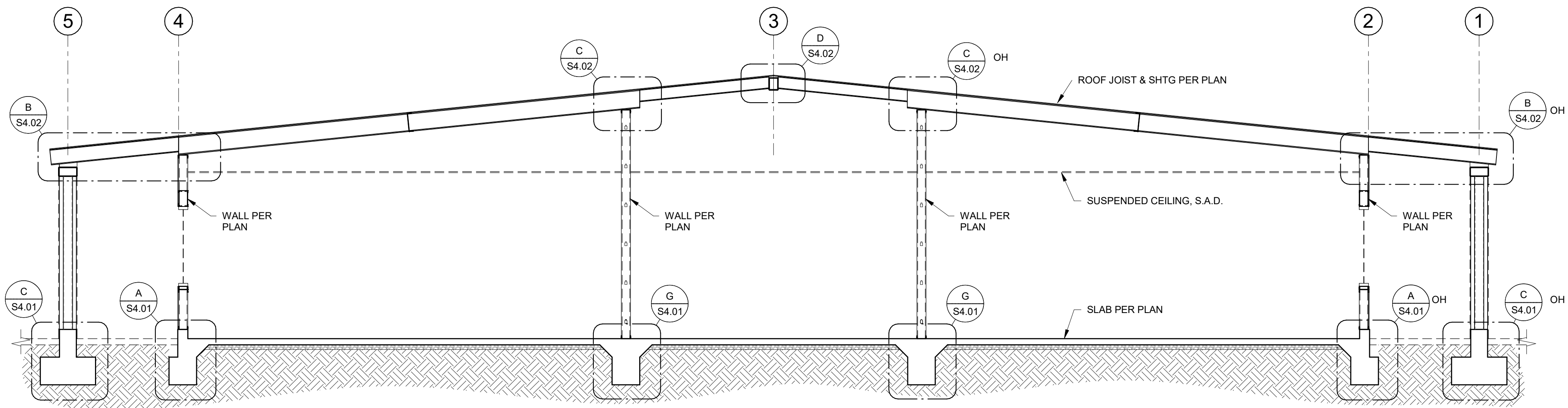
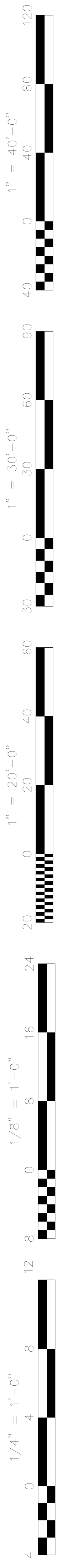
S3.01

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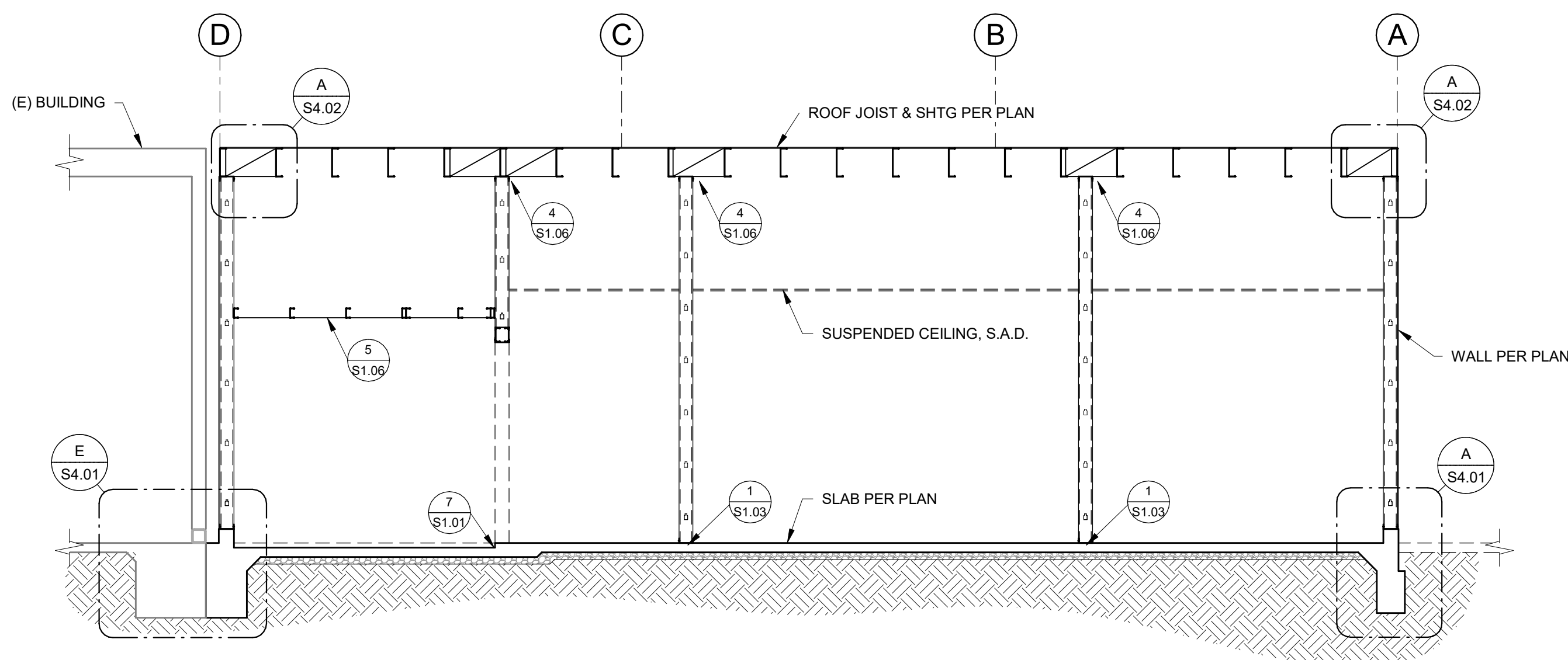
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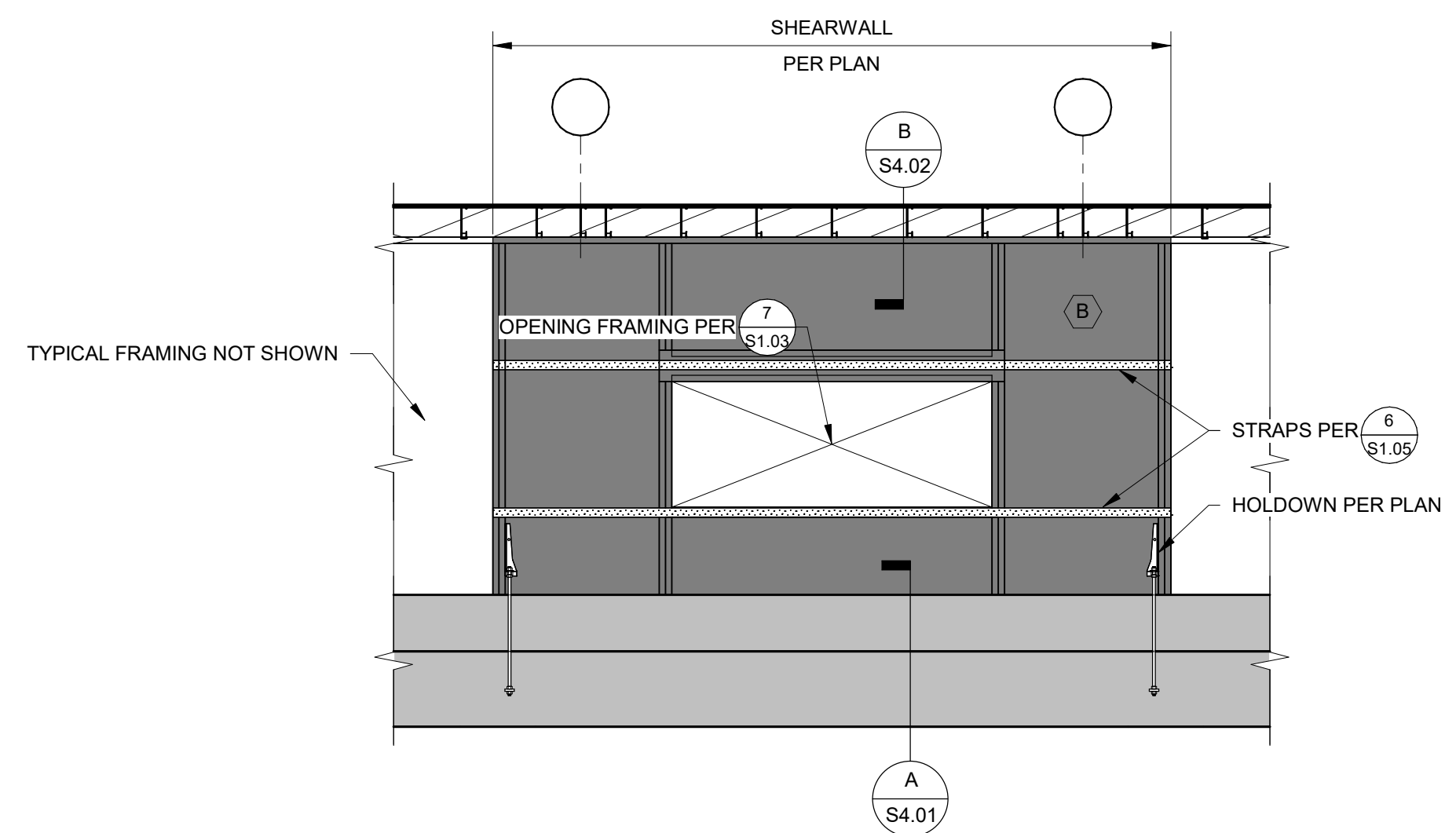
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SECTION 1
 1/4" = 1'-0" S3.01



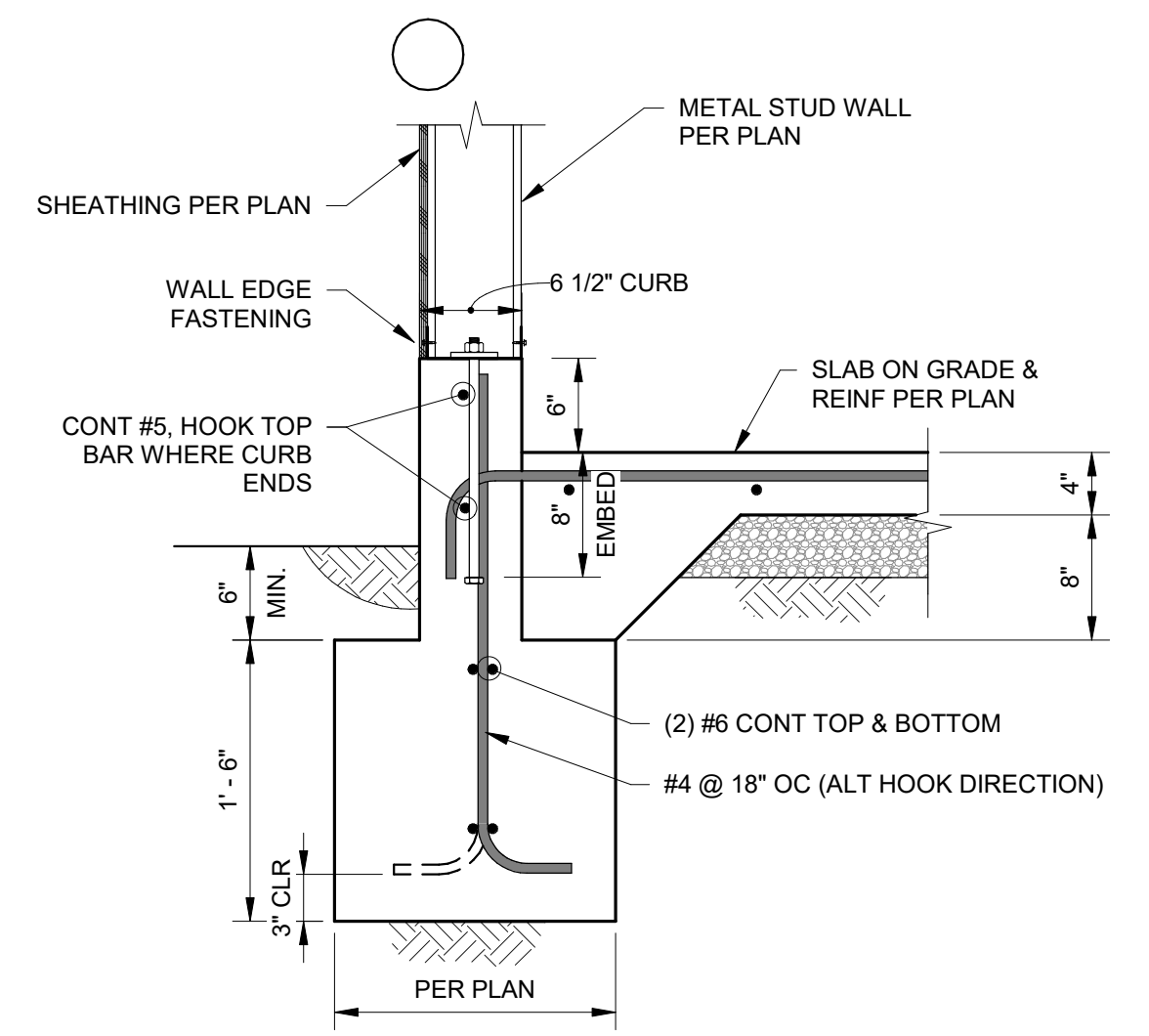
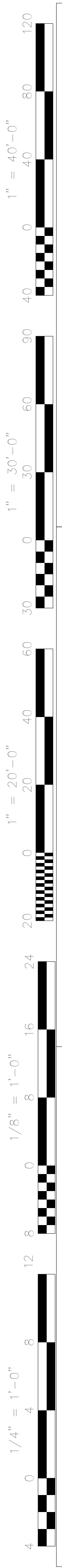
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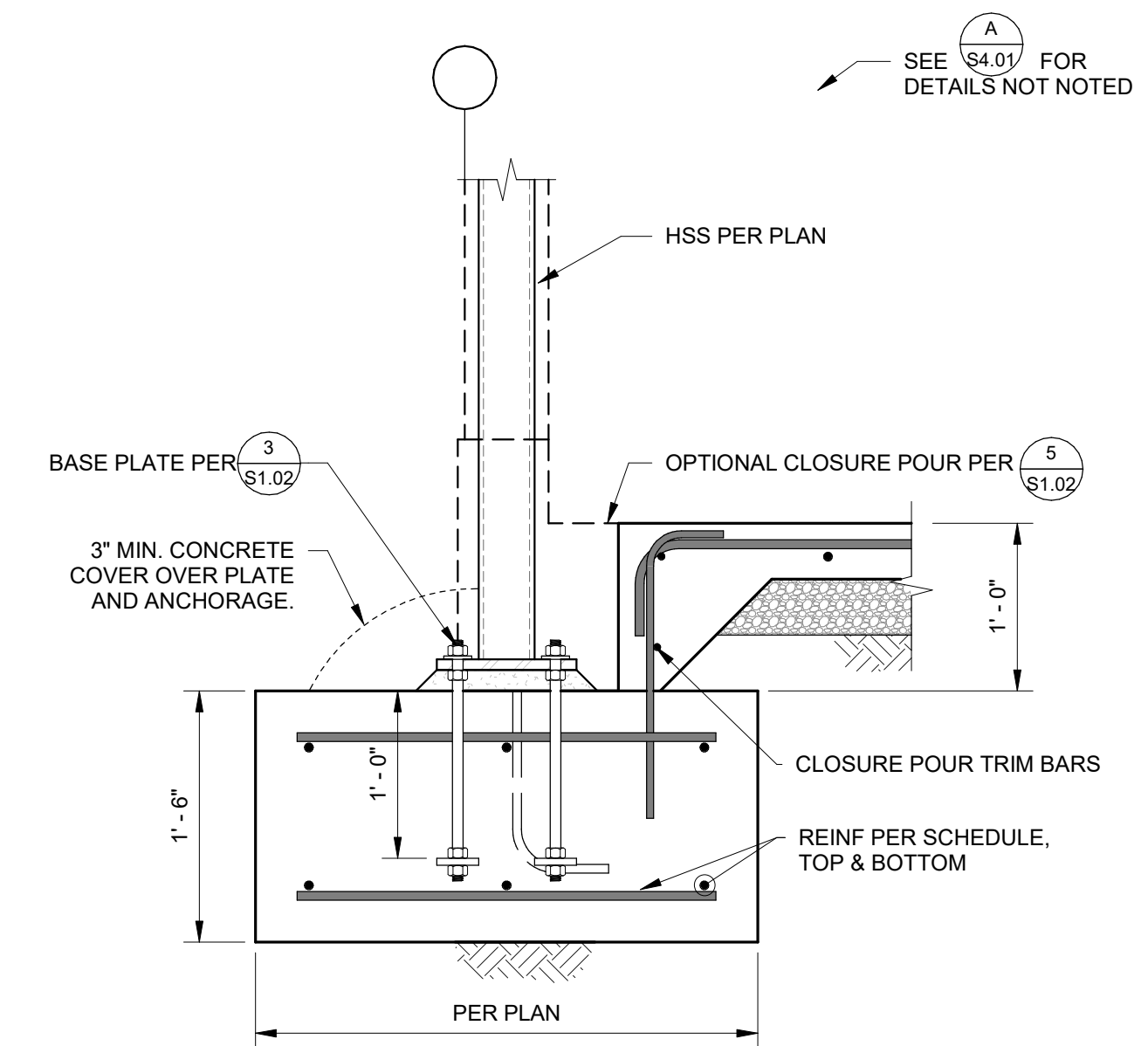
ELEVATION 3
 1/4" = 1'-0" S3.01



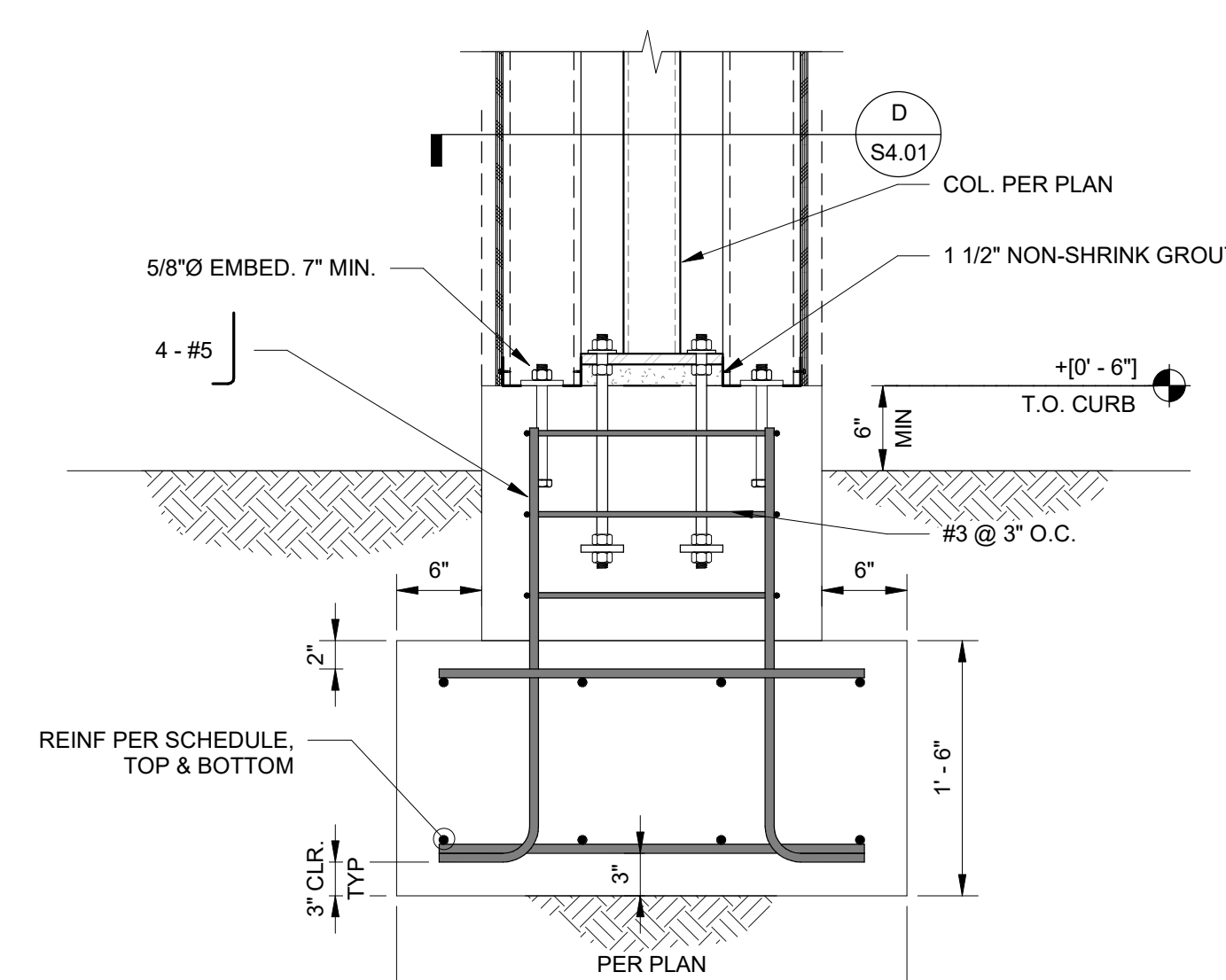
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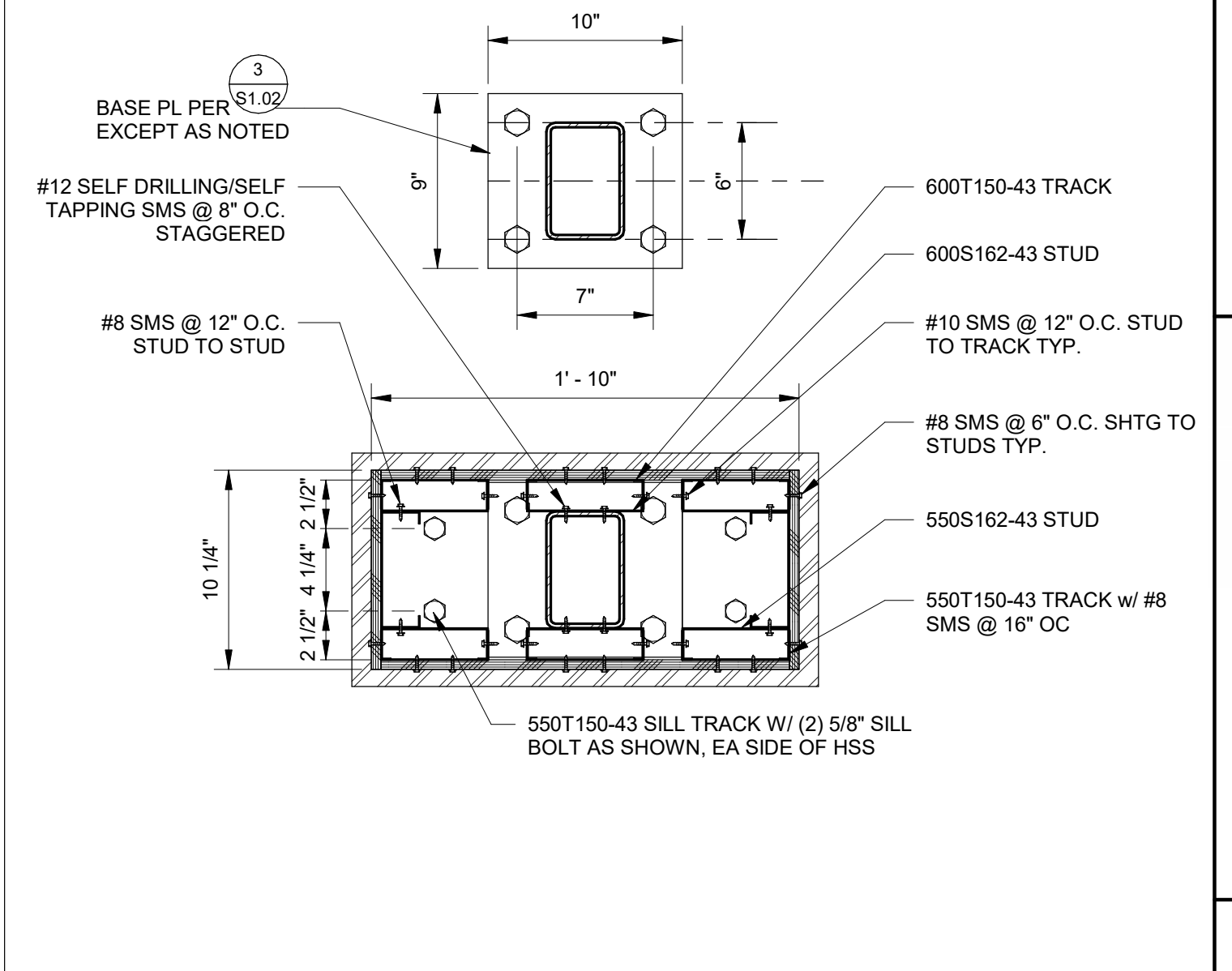
SECTION A
1" = 1'-0"



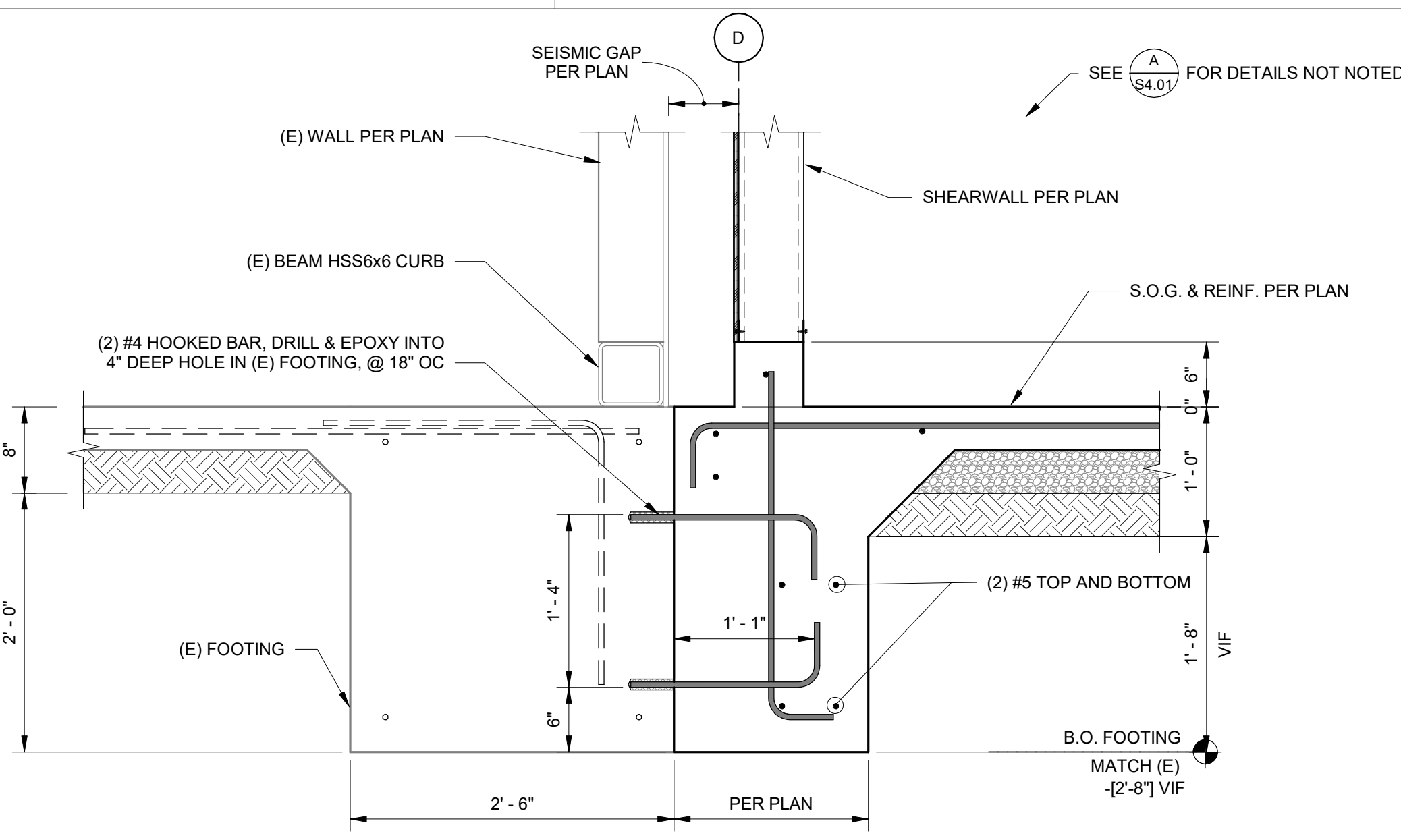
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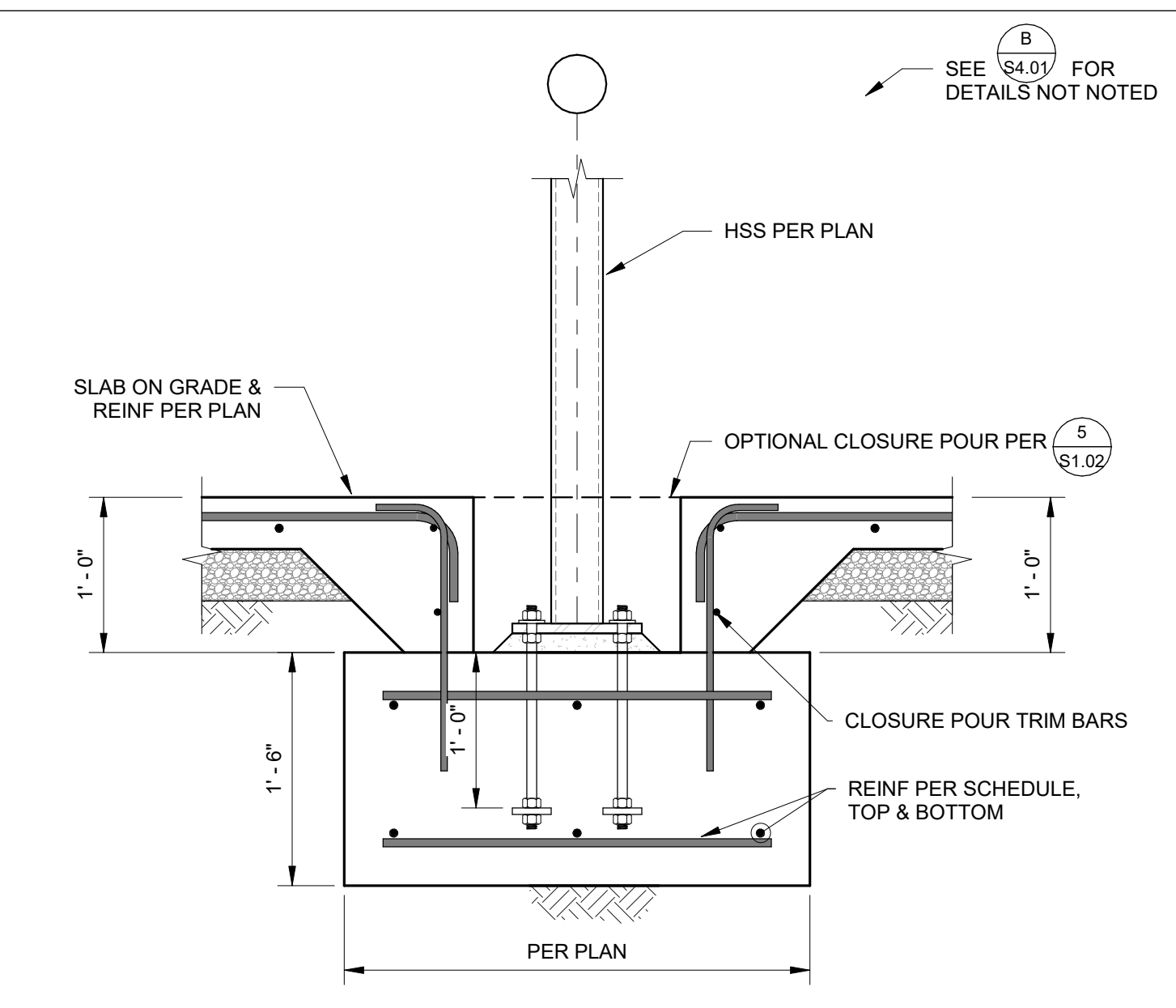
SECTION C
1" = 1'-0"



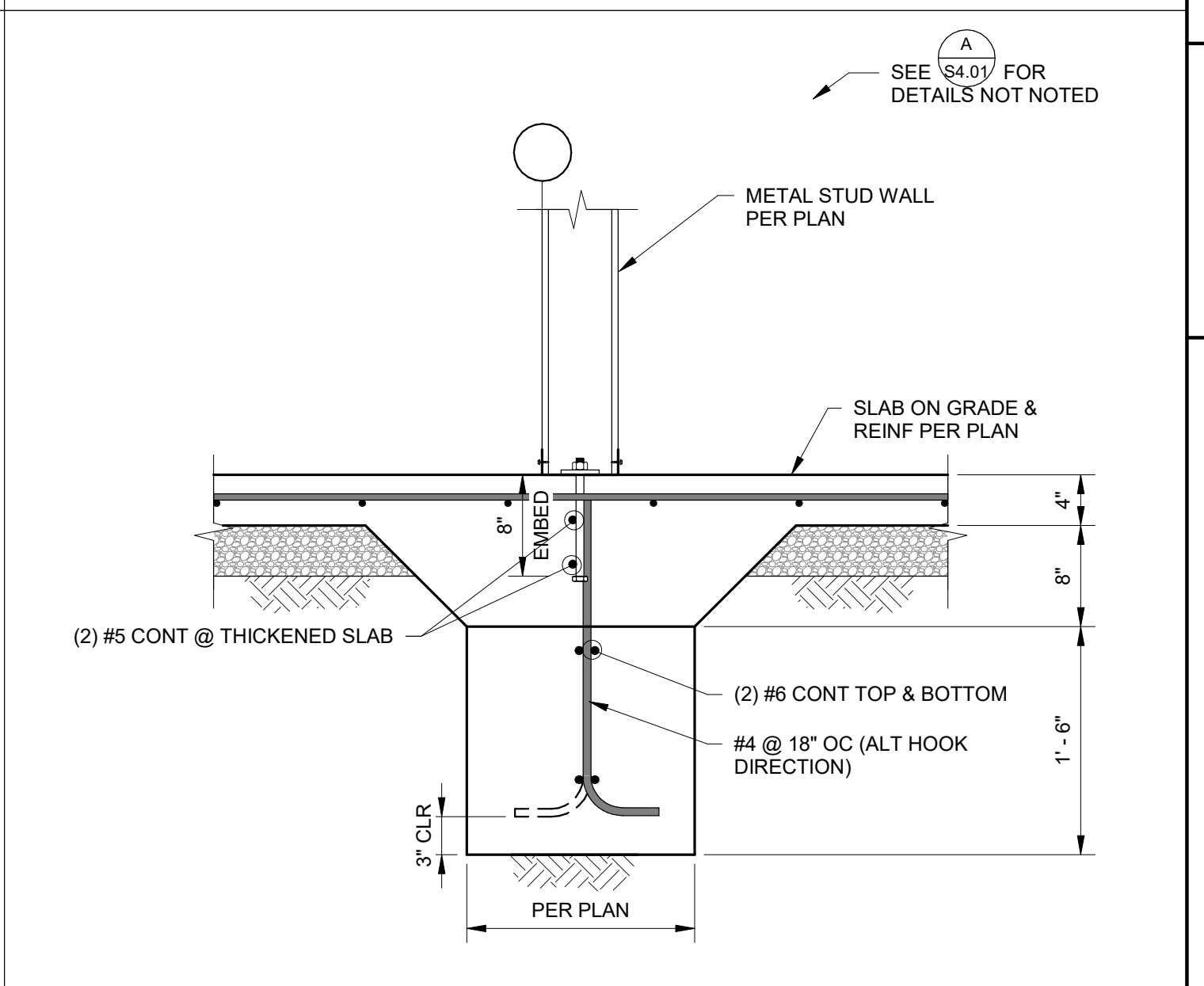
SECTION D
1 1/2" = 1'-0"



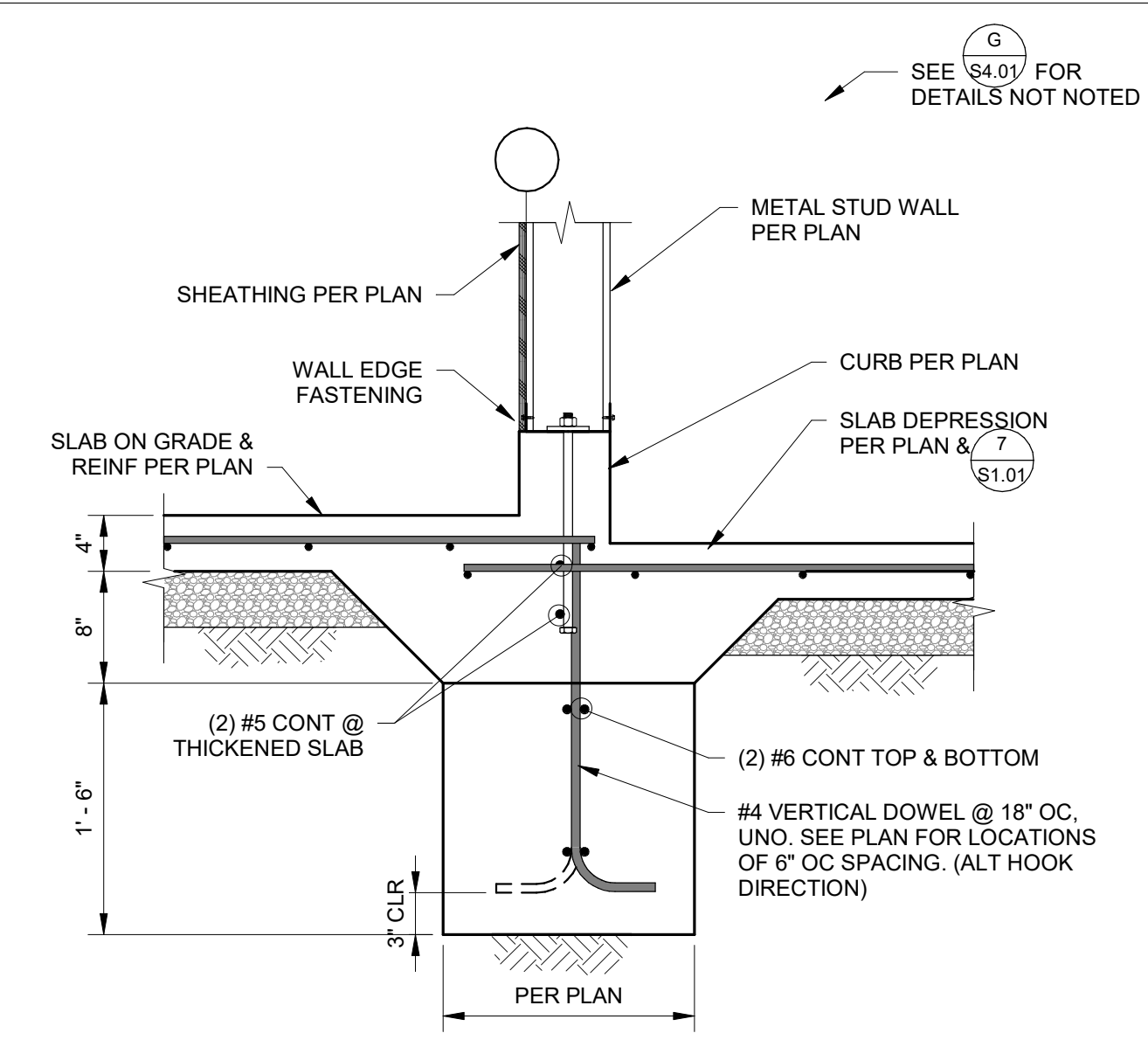
SECTION E
1" = 1'-0"



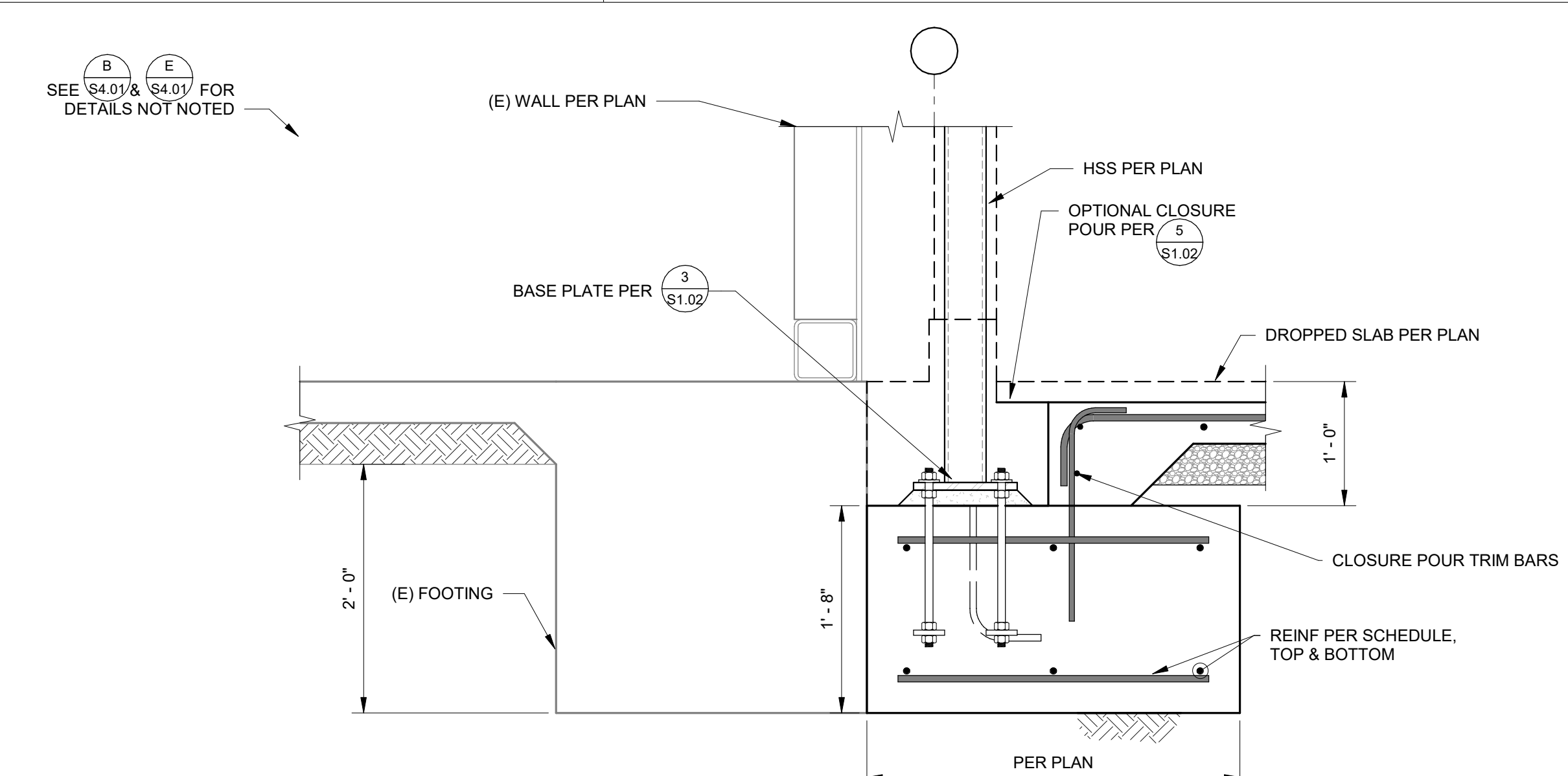
SECTION F
1" = 1'-0"



SECTION G
1" = 1'-0"



SECTION H
1" = 1'-0"



SECTION J
1" = 1'-0"

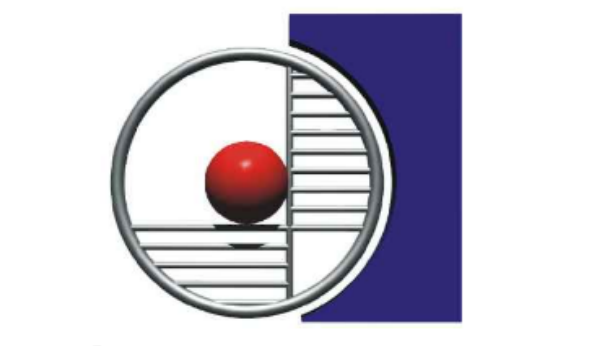
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123900 INC:
REVIEWED FOR
SS FLS ACS
DATE: 08/05/2024



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST,
BAKERSFIELD, CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
1100 CITADEL
BAKERSFIELD, CA 93307



integrated designs
by SOMAM, Inc.
**ARCHITECTURE
ENGINEERING
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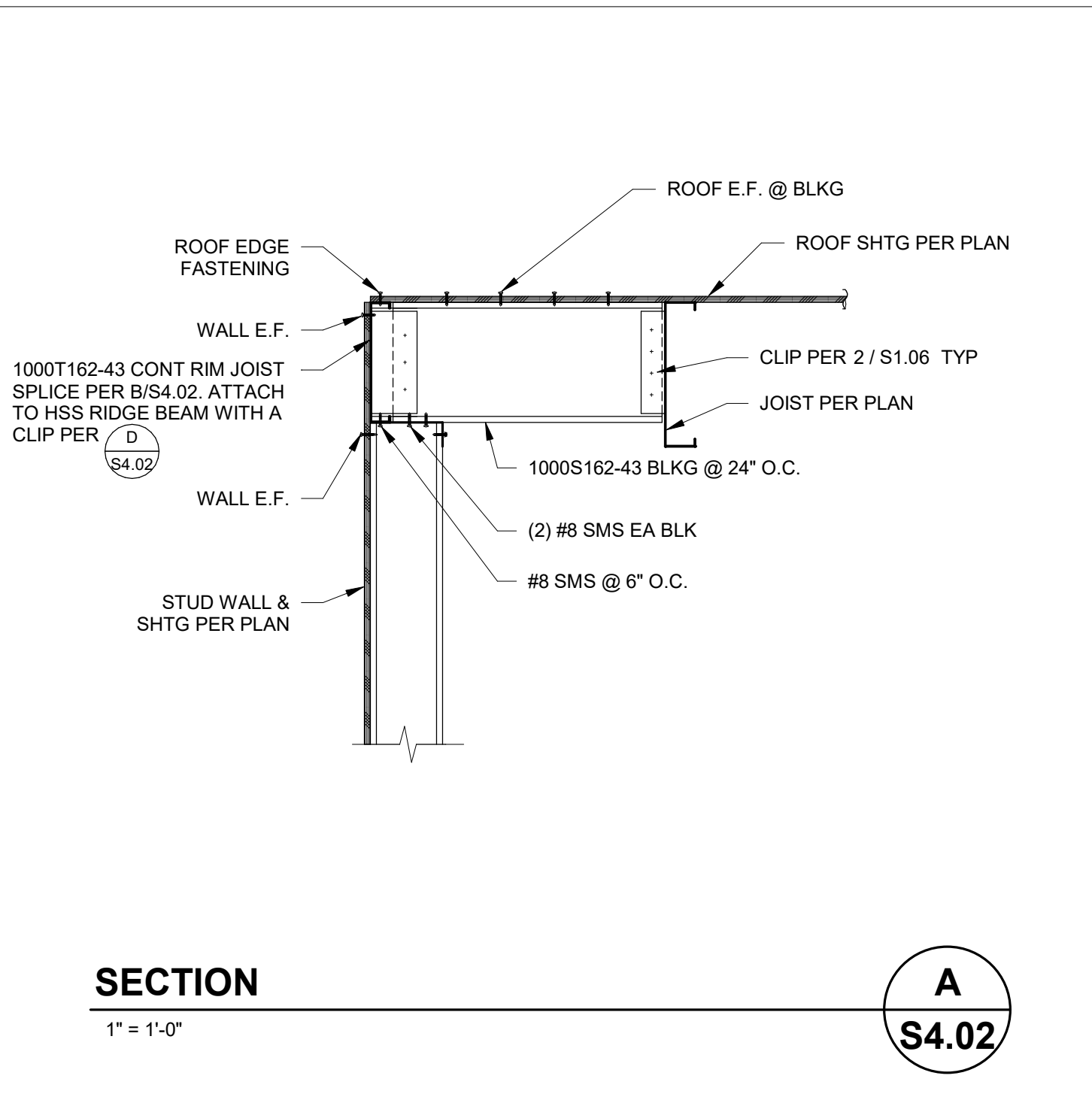
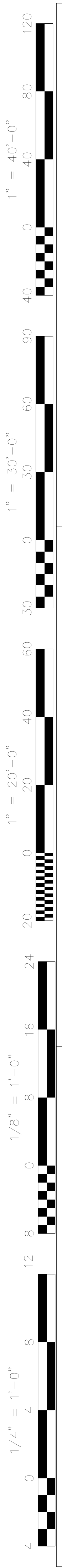


Sheet Title:
FOUNDATION DETAILS

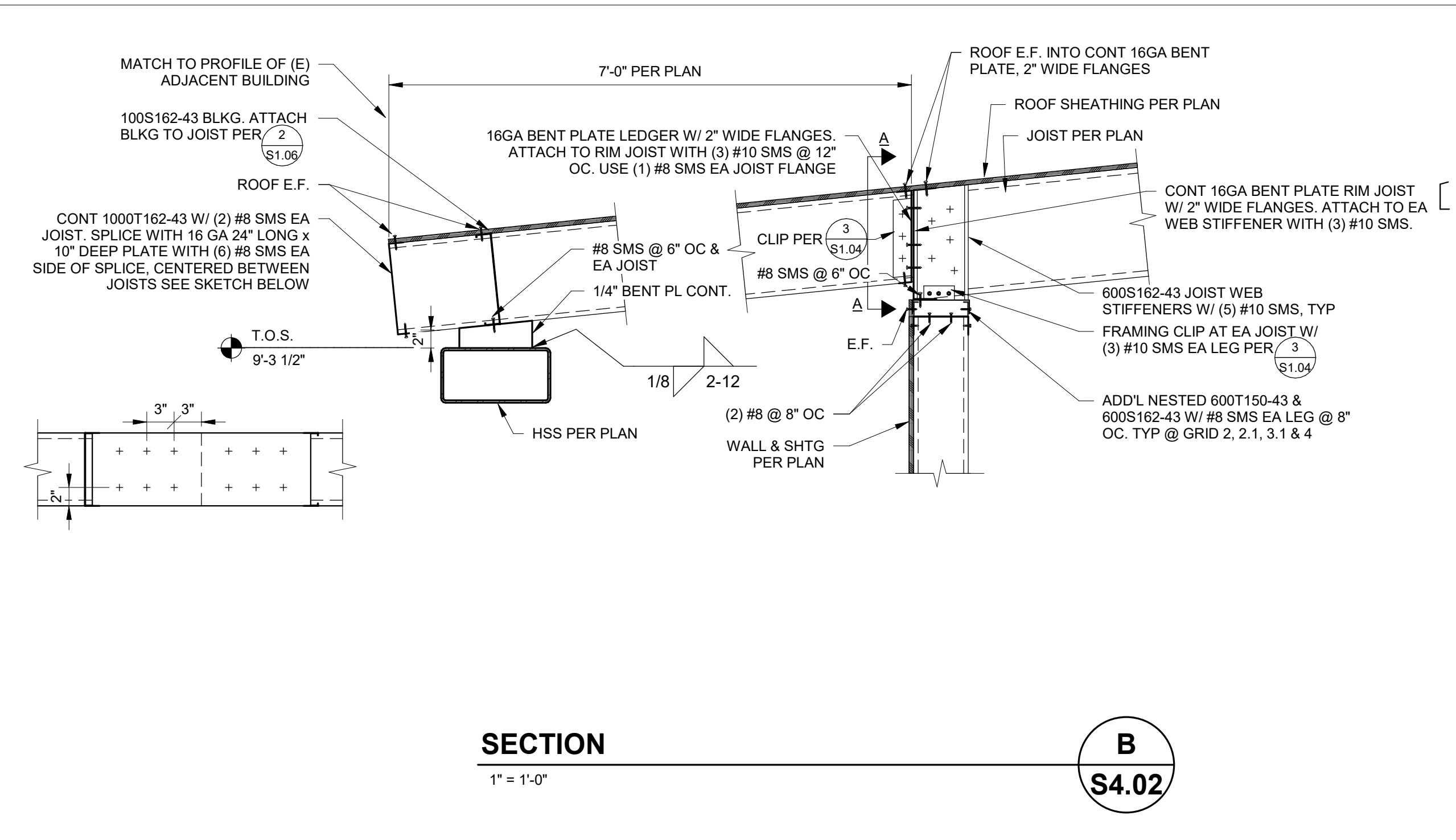
Job No.:
5593

Sheet No.:
S4.01
Release: DSA SUBMITTAL Date: 01-09-24

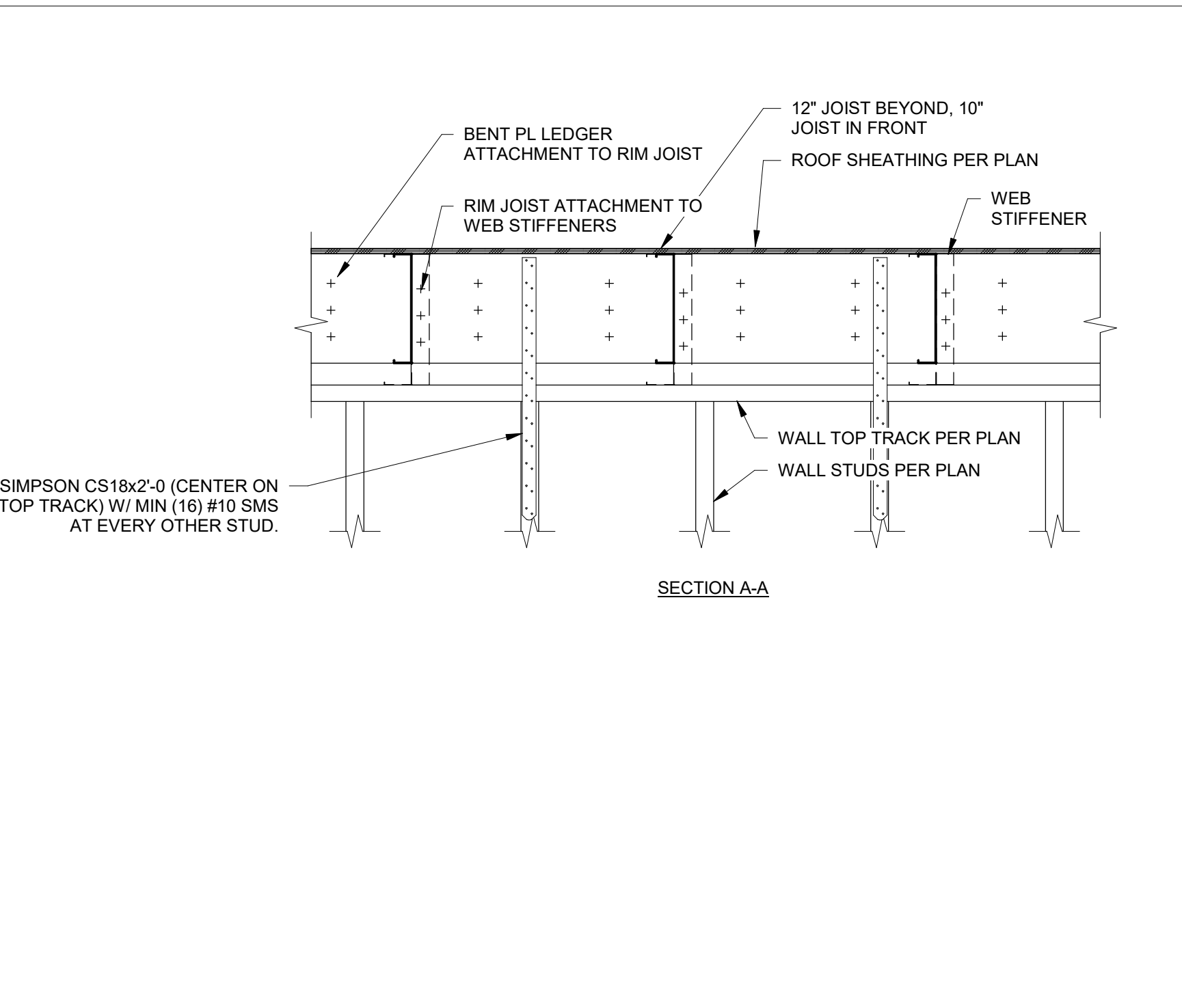
CORNERSTONE
structural engineering group
986 W. Alameda, Suite 201
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559.320.3200
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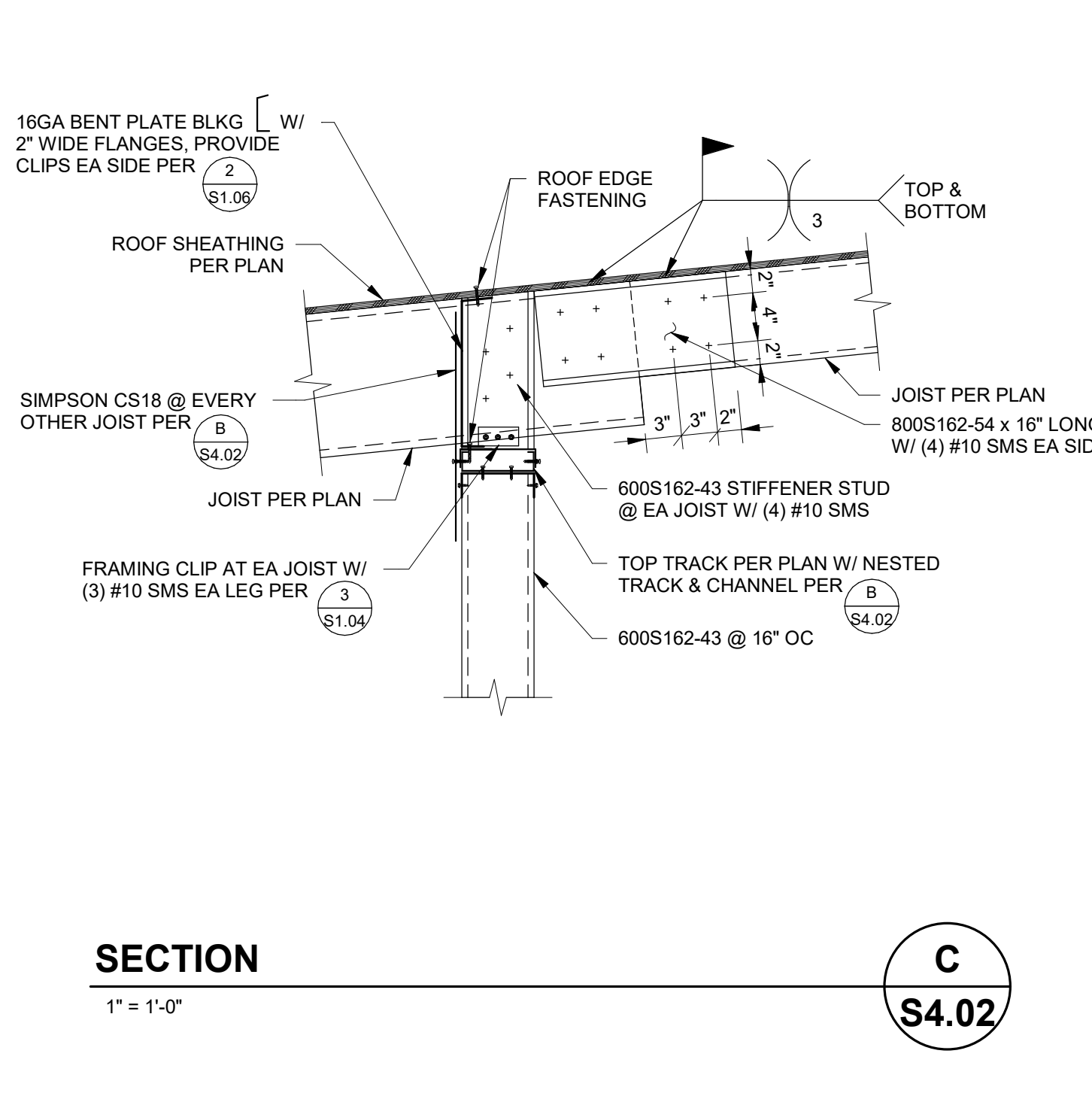
SECTION A
1" = 1'-0"
S4.02



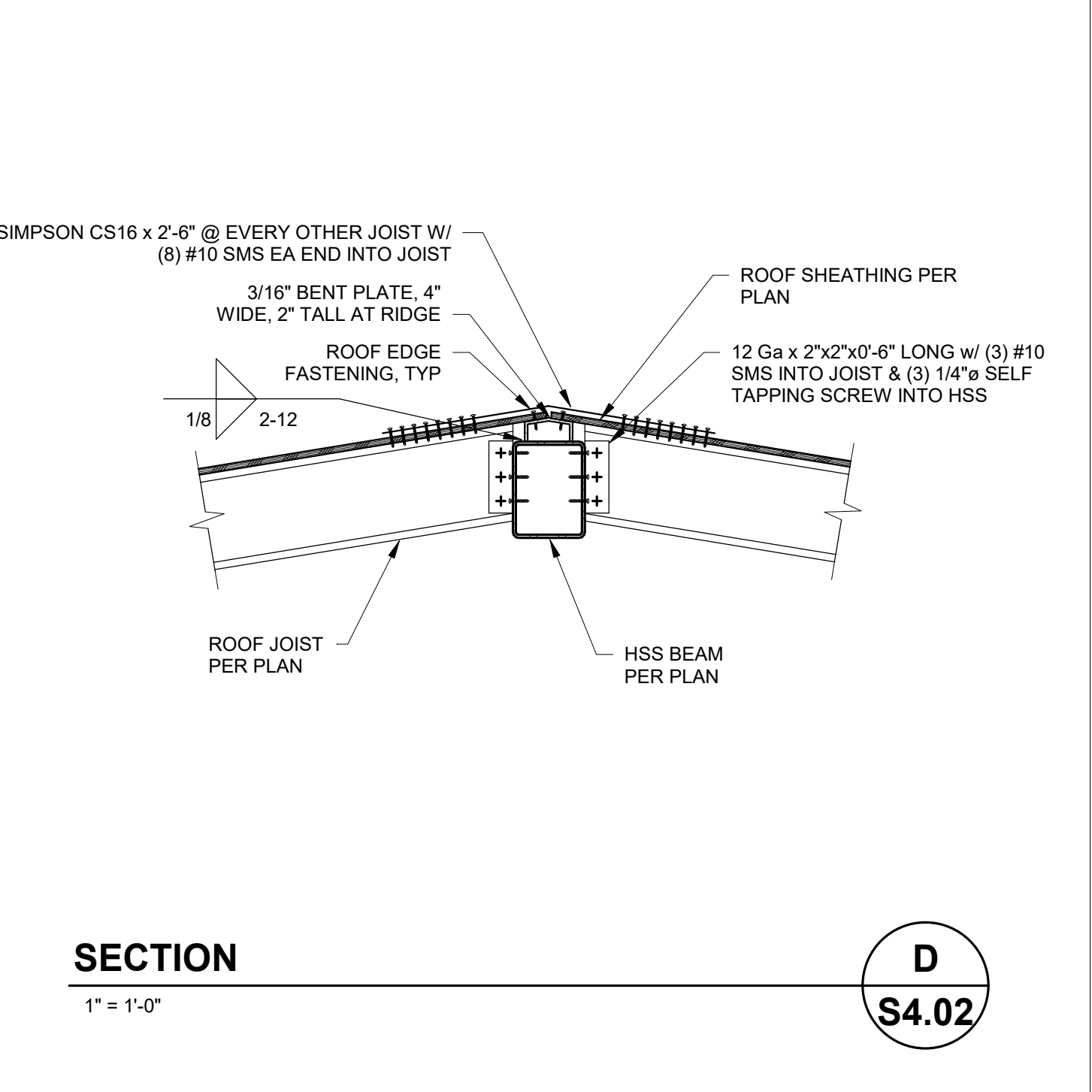
SECTION B
1" = 1'-0"
S4.02



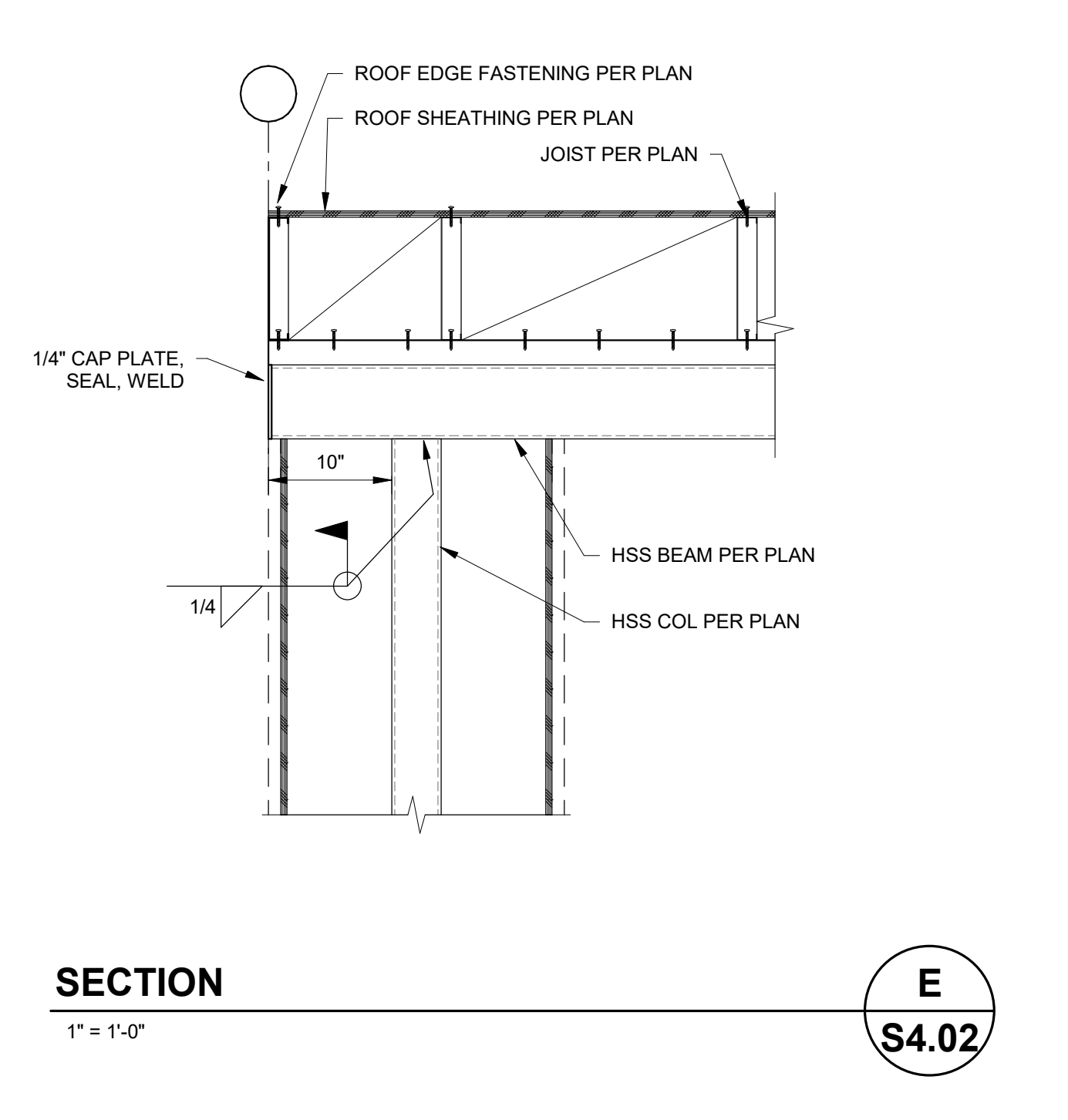
SECTION A-A



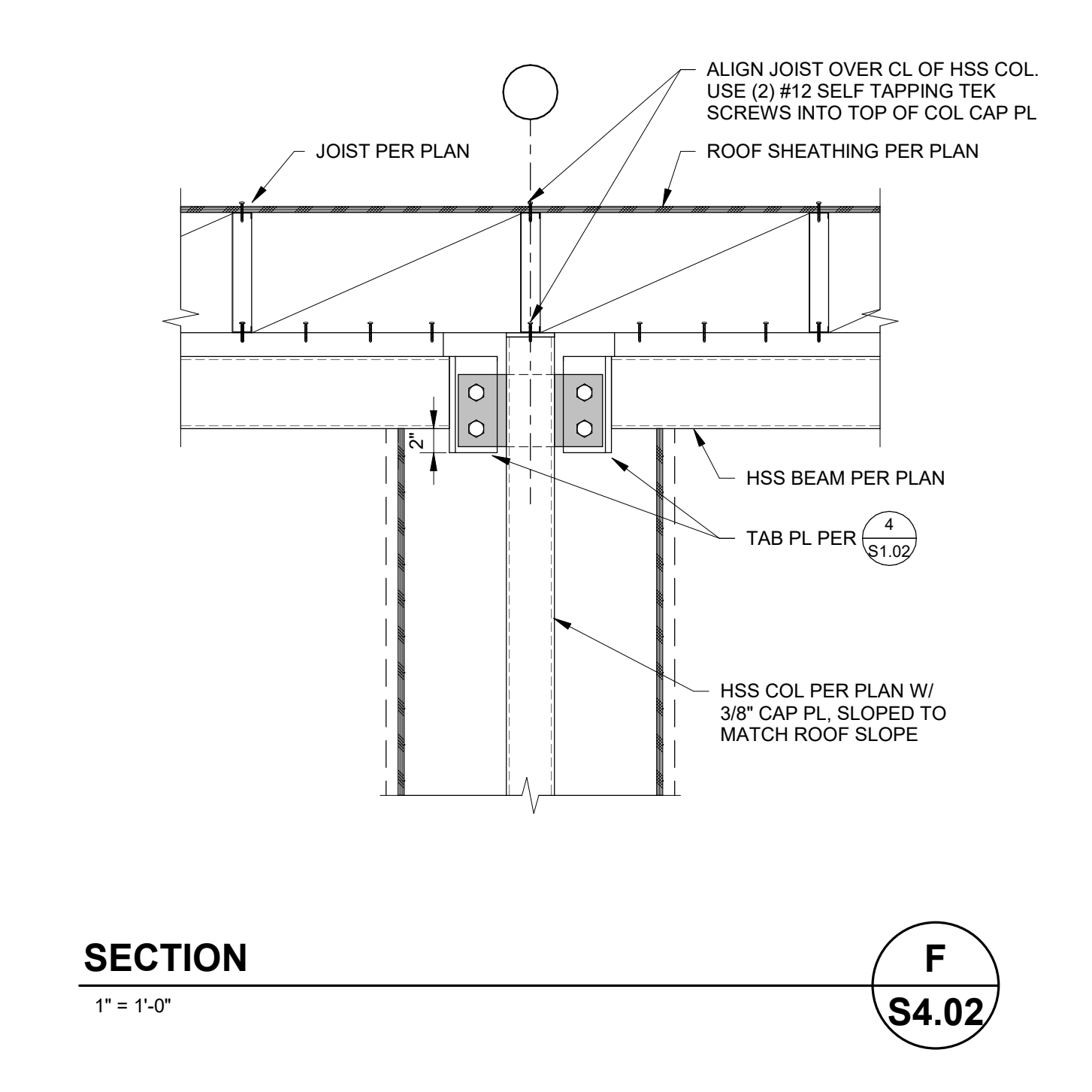
SECTION C
1" = 1'-0"
S4.02



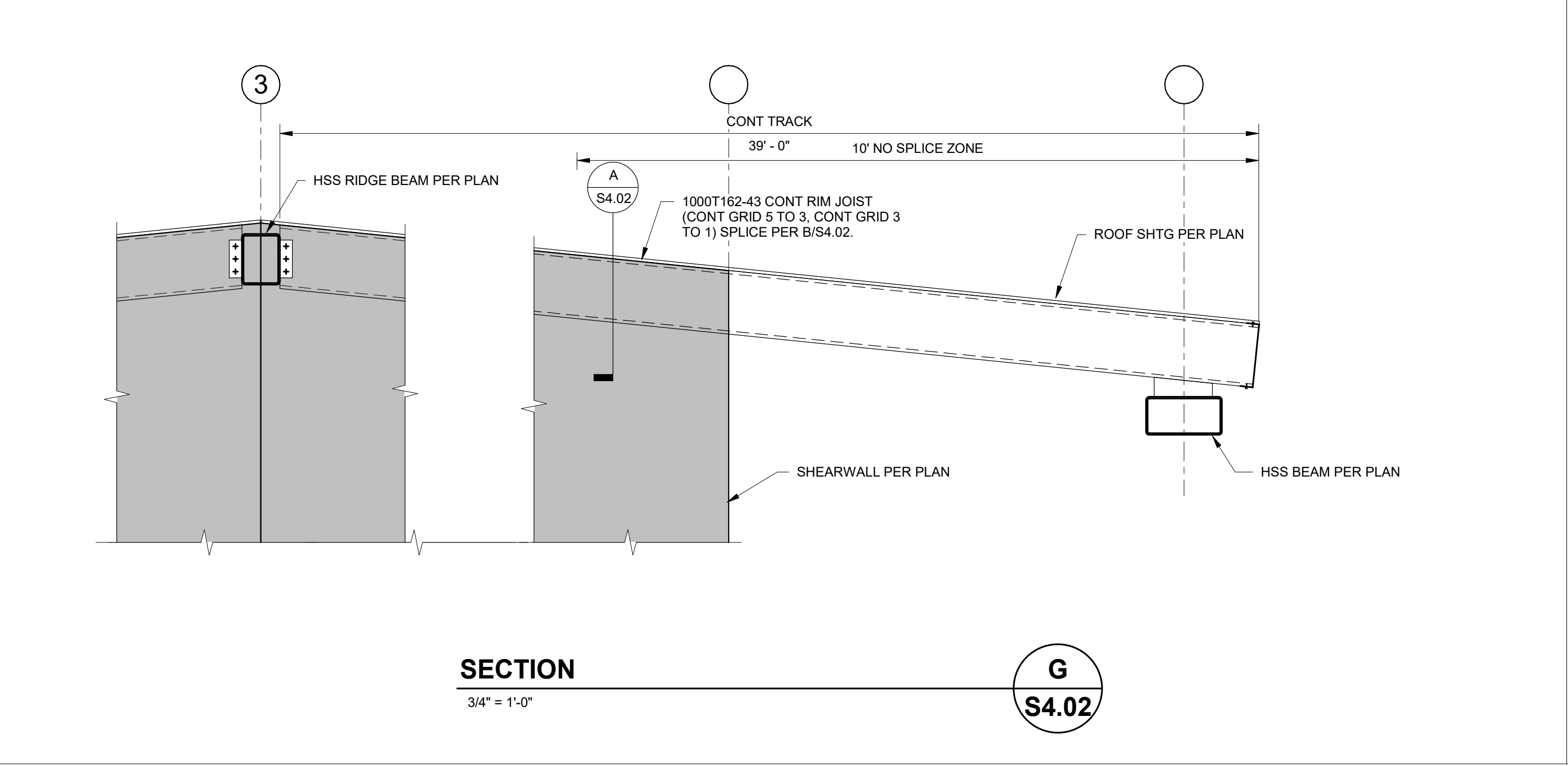
SECTION D
1" = 1'-0"
S4.02



SECTION E
1" = 1'-0"
S4.02



SECTION F
1" = 1'-0"
S4.02



SECTION G
3/4" = 1'-0"
S4.02

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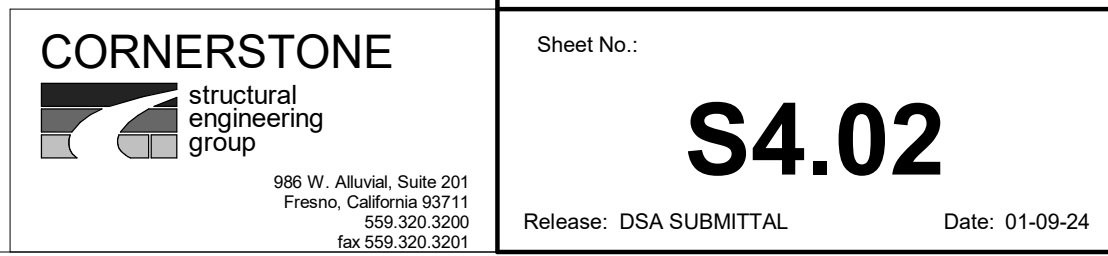
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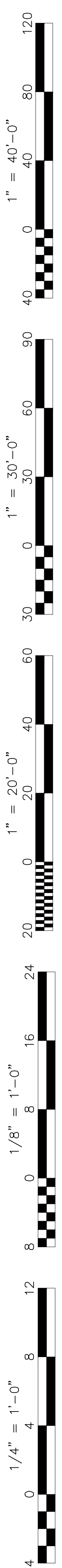


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ROOF FRAMING DETAILS

Job No.: **5593**

Sheet No.: **S4.02**
Release: DSA SUBMITTAL Date: 01-09-24





GRILLE SCHEDULE		
MARK	LOCATION	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC STEEL FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
B	CEILING SUPPLY	TITUS TDC STEEL FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 1 BORDER FOR SURFACE MOUNT, STANDARD #26 WHITE FINISH.
C	CEILING RETURN	TITUS 50F ALUMINUM EGGCRATE WITH 1/2x1/2x1/2 GRID, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
D	WALL SUPPLY	TITUS 272RS STEEL DOUBLE DEFLECTION SUPPLY GRILLE, 3/4" BLADE SPACING, 20 GAUGE BLADES PARALLEL TO LONG DIMENSION, SET ADJUSTABLE BLADES TO 0 DEGREE DEFLECTION, STANDARD #26 WHITE FINISH.
E	WALL RETURN	TITUS 350RS STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO SHORT DIMENSION, STANDARD #26 WHITE FINISH.

NOTE: ALL INTERIOR COMPONENTS, EVERYTHING BEHIND THE FACE PLATE, SHALL BE PAINTED FLAT BLACK.

PLUMBING FIXTURE & EQUIPMENT SCHEDULE						
MARK	FIXTURE	CONNECTIONS				DESCRIPTION
		CW	HW	W	V	
WC 1	WATER CLOSET ADA	1/2"	-	4"	2"	KOHLER K-9994-SS "PRIMARY" WITH ANTIMICROBIAL FINISH, ELONGATED BOWL, FLOOR MOUNT, 10-1/2" HIGH BOWL WITH K-4686 SCALLOPED SEAT, 1.28 TO 1.6 GPF. SLOAN "ROYAL" 111-1.28 FLUSH VALVE WITH HANDLE POINTED TOWARDS WIDE SIDE OF STALL, 1.28 GPF.
L 1	LAVATORY ADA	1/2"	-	2"	1-1/2"	KOHLER K-2005 "KINGSTON", 21"x18" WALL HUNG VITREOUS CHINA WITH 4" CENTERS. MCGUIRE 155A GRID DRAIN AND TAILPIECE. CHICAGO 420-E2805ABCP 0.5 GPM, SINGLE LEVER FAUCET WITH VANDAL PROOF NON-AERATING OUTLET. PROVIDE J.R. SMITH 723 CONCEALED ARMS AND STEEL SUPPORT PLATE PER 2/MO.11 FOR FIXTURE MOUNTING. REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE MOUNTING HEIGHT. CONNECT COLD WATER TO BOTH INLETS.
S 1	CLASSROOM SINK ADA	1/2"	-	2"	1-1/2"	JUST CRAF-ADA-1931-A-GR SINGLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 22"x16"x6-1/2" DEEP BOWL SIZE, J-35-SF SINK STRAINER. CHICAGO 350-E35ABCP 1.5 GPM GOOSENECK FAUCET WITH VANDAL PROOF LEVER HANDLE AT CENTER OF LEFT LEDGE, 748-665ABCP DRINKING BUBBLER AT RIGHT FRONT.
DF 1	DRINKING FOUNTAIN ADA	1/2"	-	2"	1-1/2"	HAWS 1119.14 HI-LO WALL MOUNT DRINKING FOUNTAIN WITH BACK PANEL, 14 GAUGE STAINLESS STEEL, PUSH BUTTON OPERATION, VANDAL RESISTANT CHROME PLATED BRASS BUBBLER HEADS AND WASTE STRAINERS, INTEGRAL TRAPS. PROVIDE 6700.4 MOUNTING PLATE, 6800 MOUNTING SUPPORT. REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE MOUNTING HEIGHT.
WHA 1	WATER HAMMER ARRESTER	1/2"	-	-	-	SIoux CHIEF HYDRA-RESTER 652-AS, SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION, UP TO 11 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
HB 1	HOSE BIBB	3/4"	-	-	-	WOODFORD 24-P-PC POLISHED CHROME WALL FAUCET, 3/4HF ANTI-SIPHON VACUUM BREAKER, AND LOOSE TEE KEY.
HB 2	HOSE BIBB	3/4"	-	-	-	WOODFORD MODEL B75 RECESSED WALL FAUCET IN CONCEALED BOX WITH LOCKING DOOR, MOUNTING BRACKET, 3/4HF ANTI-SIPHON VACUUM BREAKER, AND LOOSE TEE KEY. SELF DRAINING.
TP 1	TRAP PRIMER	1/2"	-	-	-	PRECISION PLUMBING PRODUCTS P1-500 VALVE. PROVIDE DU-U DISTRIBUTION UNIT WHEN MORE THAN ONE DRAIN IS SERVED, UP TO 4 DRAINS PER DISTRIBUTION UNIT. PLUG UNUSED OUTLETS AS REQUIRED. PROVIDE WALL ACCESS DOOR. REFER TO PLANS FOR NUMBER OF DRAINS SERVED.
FD 1	FLOOR DRAIN	1/2"	-	2"	1-1/2"	J.R. SMITH 2005(A)-P050-AHP 5" ROUND NICKEL BRONZE STRAINER HEAD, DUCCO CAST IRON BODY WITH FLASHING COLLAR, TRAP PRIMER CONNECTION, HEEL PROOF GRATE. PROVIDE 5" SQUARE HEAD FOR TILE FLOOR.

PACKAGE HEAT PUMP UNIT SCHEDULE	
MARK	DESCRIPTION
VOLTS/PHASE	460/3
MCA / MOCP	25 / 25
FLA / LRA	/ 54.7
FUSE SIZE	25
BLOWER:	
CFM	1600
DUCT SP (IN WC)	0.2
MINIMUM OSA (CFM)	415
HP / BHP	0.75 /
DRIVE	ECM
COOLING:	
TOTAL (MBH)	53.5
SENSIBLE (MBH)	39.0
EADB / EAWB (*F)	80 / 67
AMBIENT DB (*F)	95
REFRIGERANT	R410A
CONDENSATE CONN	3/4"
STAGES	2
SEER / EER / IEER, AHR1	- / 11.0 / 12.5
HEATING:	
CAPACITY (MBH)	53.5
EADB (*F)	70
AMBIENT DB (*F)	47
STRIP HEATER (KW)	6.0
HSPF / COP	- / 3.5
FILTERS:	
RA: QUANTITY / SIZE	2 / 24x30x2
TYPE	MERV 13
PD, CLEAN (IN WC)	0.3
MOUNTING	FLOOR (6)
MANUFACTURER	
TYPE	HEAT PUMP
MODEL NUMBER	1602Z
CONTROL	T*STAT (5)
SERVICE	SEE PLANS
OP WEIGHT (LBS)	1,200
ACCESSORIES	(1),(2),(3),(4)
NOTES:	
(1) CA COMPLIANT ECONOMIZER ASSEMBLY WITH FDD, FULLY MODULATING DAMPERS, INTEGRAL POWER EXHAUST, AND DEMAND CONTROL VENTILATION; PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER.	
(2) UL 867 AND 2998 LISTED NPBI TYPE ION GENERATOR IN SUPPLY AIR DUCT WITH SEPARATE 120V POWER; NU-CALGON iWAVE-C.	
(3) WALL SLEEVE, ALUMINUM OUTDOOR LOUVERED GRILLE WITH BIRD SCREEN, TOP CABINET EXTENSION KIT.	
(4) DISCONNECT BY DIV 26 ELECTRICAL	
(5) THERMOSTAT WITH INTEGRAL CO2 SENSOR; PELICAN WIRELESS TC3.	
(6) SEE 11/MO.11	

EXHAUST FAN SCHEDULE		
MARK	EF 1	EF 2
CFM	110	110
ESP (IN WC)	0.25	0.25
HP / BHP / WATTS	- / - / 24.2	- / - / 24.2
VOLTAGE/PHASE	115/1	115/1
RPM	960	960
SONES		
	1.3	1.3
DRIVE		
	DIRECT	DIRECT
MOUNTING		
	CEILING (5)	CEILING (5)
MANUFACTURER		
	GREENHECK	GREENHECK
TYPE		
MODEL NUMBER	SP-A90-130-VG	SP-A90-130-VG
CONTROL	(1)	(1)
SERVICE	UNISEX RR	UNISEX RR
OP WEIGHT (LBS)	12	12
ACCESSORIES	(2),(3),(4)	(2),(3),(4)
NOTES:		
(1) INTERLOCK WITH LIGHTS		
(2) INTEGRAL BACKDRAFT DAMPER		
(3) ROOF CAP WITH BIRDSCREEN, GREENHECK RJ-6x9		
(4) DISCONNECT BY DIV 26 ELECTRICAL		
(5) SEE 8/MO.11		

GENERAL MECHANICAL NOTES

A. THE PLANS AND SPECIFICATIONS DESCRIBE THE MECHANICAL WORK OF THIS PROJECT. ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH. PROVIDE THE NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, AND SERVICES FOR A COMPLETE FUNCTIONING SYSTEM.

B. ALL LOCATIONS OF EXISTING UTILITIES, EQUIPMENT, DUCTWORK, AND PIPING SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK, INCLUDING EXACT LOCATION, SIZE, SERVICE, AND ROUTING OF EXISTING UTILITIES, DUCTWORK, AND PIPING. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.

C. MECHANICAL LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC ONLY. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. EXACT LOCATION OF EQUIPMENT, DUCTWORK, AND PIPES SHALL BE COORDINATED WITH OTHER TRADES.

D. PROVIDE CLEANOUTS PER CPC SECTIONS 707, 719, AND 1101.13.

E. PROVIDE PLUMBING VENT TERMINATION PER CPC SECTION 906. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN FEET FROM, OR NOT LESS THAN THREE FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT. COORDINATE EXACT LOCATION WITH OTHER TRADES.

F. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PER CBC SECTIONS 714 AND 717. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED ASSEMBLIES.

G. THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPES SHALL CONFORM TO CBC CHAPTER 16A.

H. PROVIDE FRESH AIR INTAKE SEPARATION FROM EXHAUST TERMINATION AND PLUMBING VENT TERMINATION PER CMC SECTIONS 902, 510.9 AND 519.5, AND CPC SECTION 906. COORDINATE WITH OTHER TRADES.

J. DUCTWORK SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, MAINTAIN THE INSIDE CLEAR DIMENSIONS BY INCREASING THE SHEET METAL SIZE TO ACCOMMODATE LINING THICKNESS.

K. ACCEPTANCE TESTING SHALL BE PERFORMED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST TECHNICIAN (CMATT). THE CMATT SHALL PERFORM, DOCUMENT, REGISTER, AND SUBMIT ALL ACCEPTANCE TESTING AS REQUIRED BY CALIFORNIA CODE OF REGULATIONS, TITLE 24, AND AS NOTED ON THE CERTIFICATE OF COMPLIANCE FORM, WHERE APPLICABLE.

L. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

MEP COMPONENT ANCHORAGE NOTE
 ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- 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.
- 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.

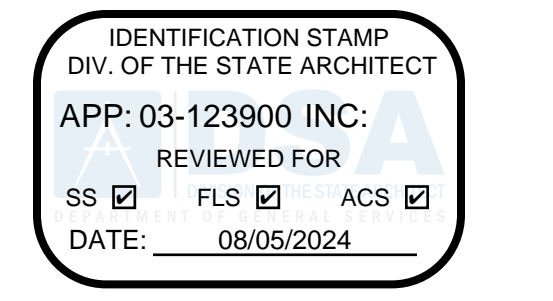
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
 PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 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 PREAPPROVED INSTALLATION GUIDE (e.g., HCAI 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.

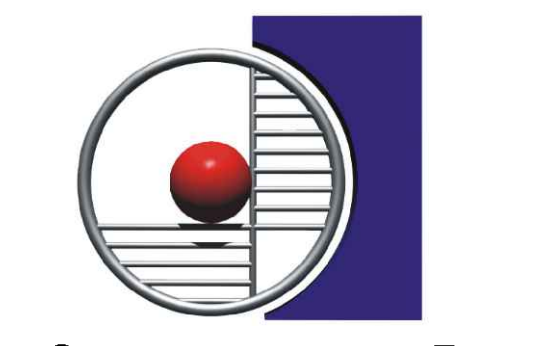
MP MD PP E OPTION 2: SHALL COMPLY WITH HCAI (OSHDP) PRE-APPROVAL (OPM #) #OPM-0052-13 TOLCO SEISMIC RESTRAINT SYSTEMS, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.



BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
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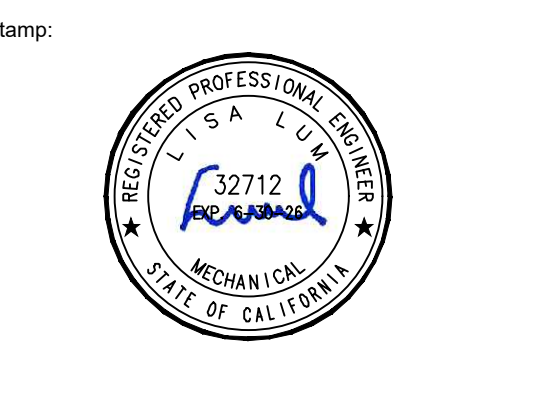
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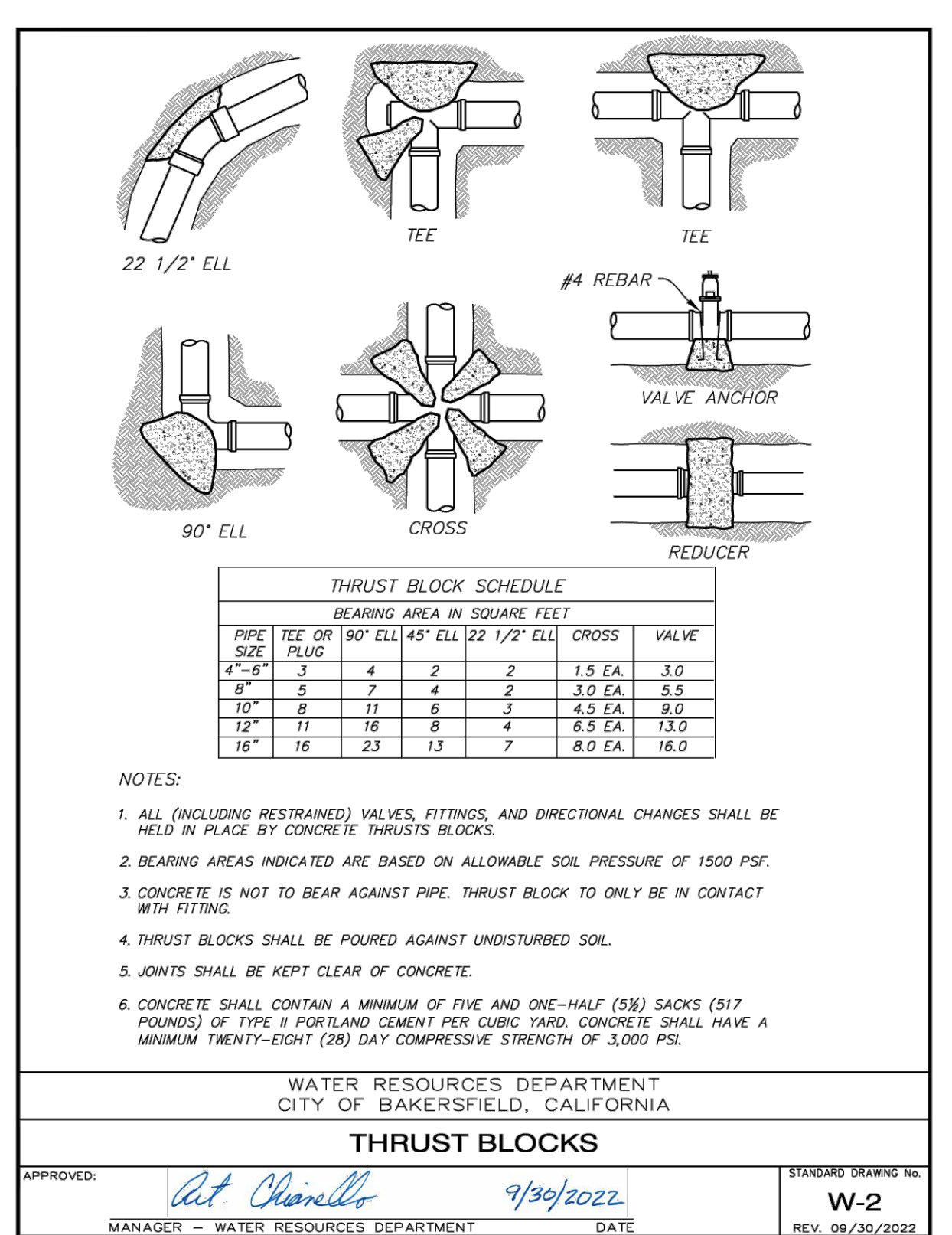
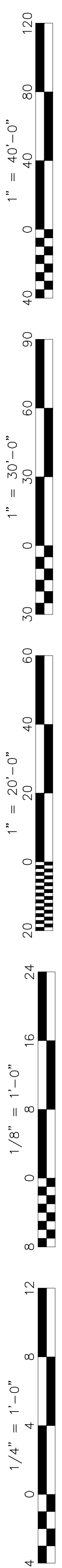


Sheet Title:
GENERAL NOTES - SCHEDULES

Job No.:
5593

Sheet No.:
M0.01

Release: DSA SUBMITTAL Issue Date: 7/24/24



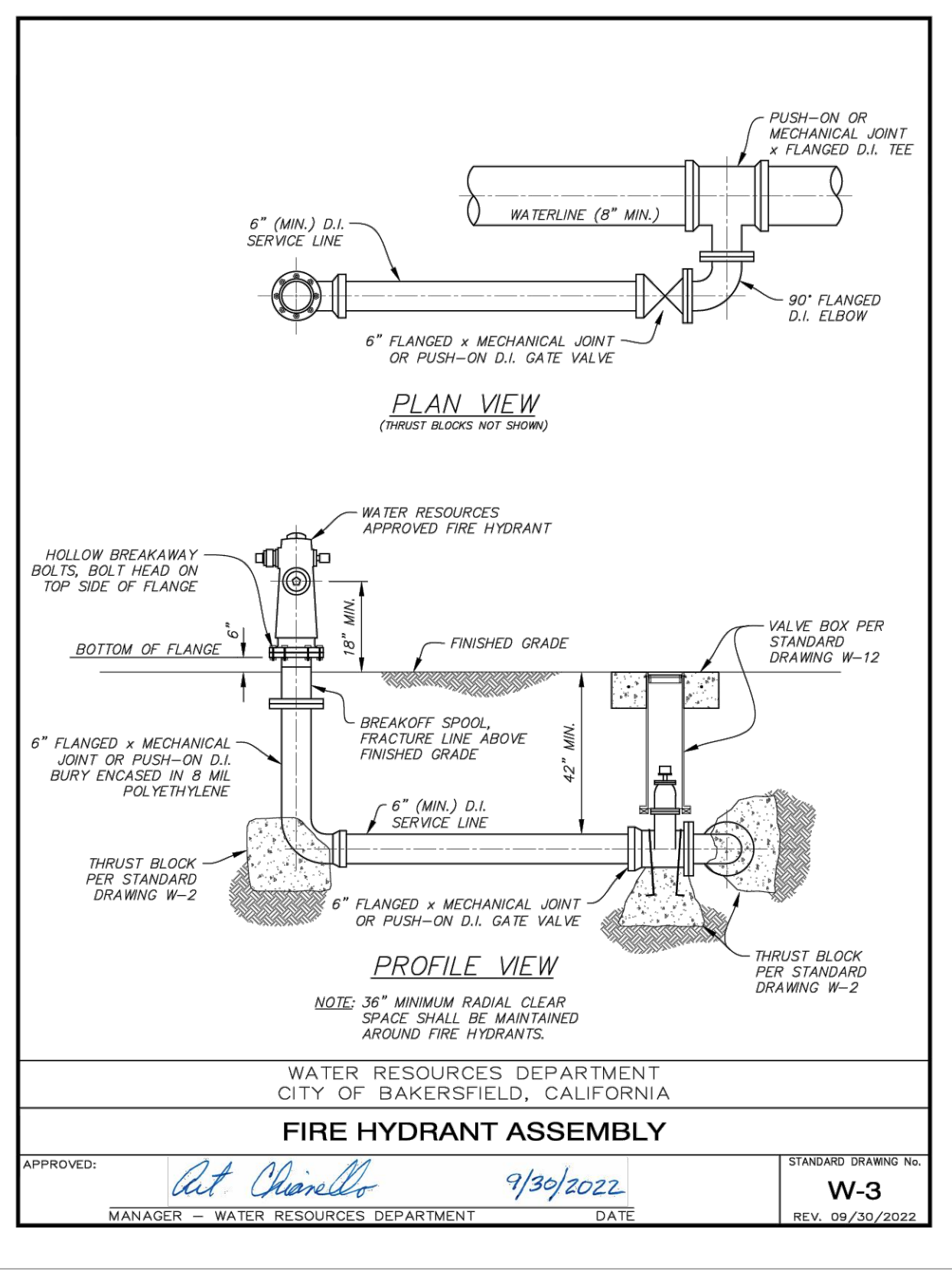
THRUST BLOCK SCHEDULE						
BEARING AREA IN SQUARE FEET						
PIPE SIZE	TEE OR PLUG	90° ELL	45° ELL	22 1/2° ELL	CROSS	VALVE
4" - 6"	3	4	2	2	1.5 EA.	3.0
8"	5	7	4	2	3.0 EA.	5.5
10"	6	11	6	3	4.5 EA.	9.0
12"	11	16	8	4	6.5 EA.	13.0
16"	16	23	13	7	8.0 EA.	16.0

- NOTES:
1. ALL (INCLUDING RESTRAINED) VALVES, FITTINGS, AND DIRECTIONAL CHANGES SHALL BE HELD IN PLACE BY CONCRETE THRUST BLOCKS.
 2. BEARING AREAS INDICATED ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 PSF.
 3. CONCRETE IS NOT TO BEAR AGAINST PIPE. THRUST BLOCK TO ONLY BE IN CONTACT WITH FITTING.
 4. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
 5. JOINTS SHALL BE KEPT CLEAR OF CONCRETE.
 6. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE AND ONE-HALF (5 1/2) SACKS (51.7 POUNDS) OF TYPE II PORTLAND CEMENT PER CUBIC YARD. CONCRETE SHALL HAVE A MINIMUM TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 3,000 PSI.

WATER RESOURCES DEPARTMENT
CITY OF BAKERSFIELD, CALIFORNIA

THRUST BLOCKS

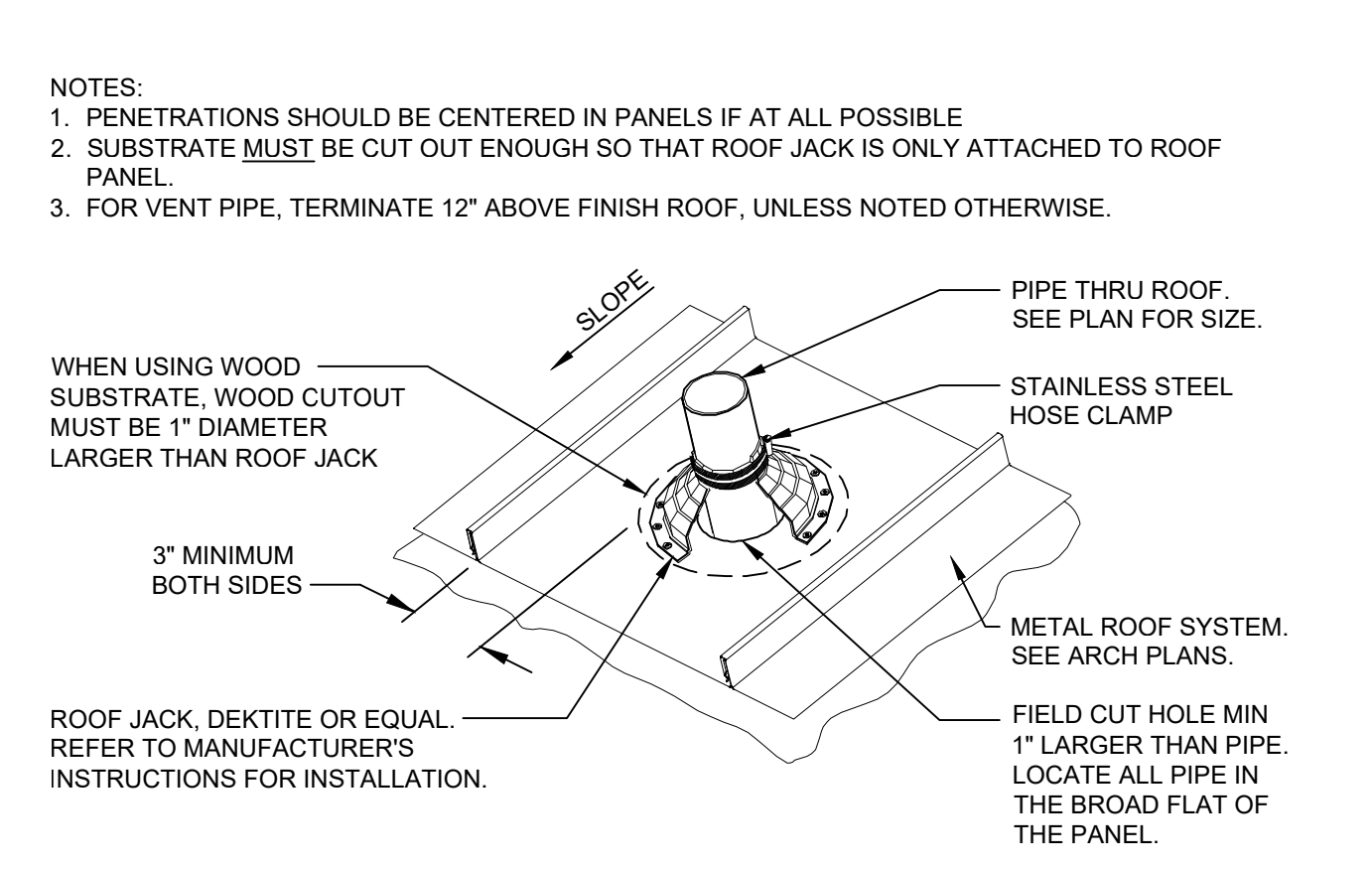
APPROVED: *Aut Chavella* 9/30/2022 DATE: 9/30/2022
MANAGER - WATER RESOURCES DEPARTMENT
STANDARD DRAWING NO. **W-2** REV. 09/20/2022



FIRE HYDRANT ASSEMBLY

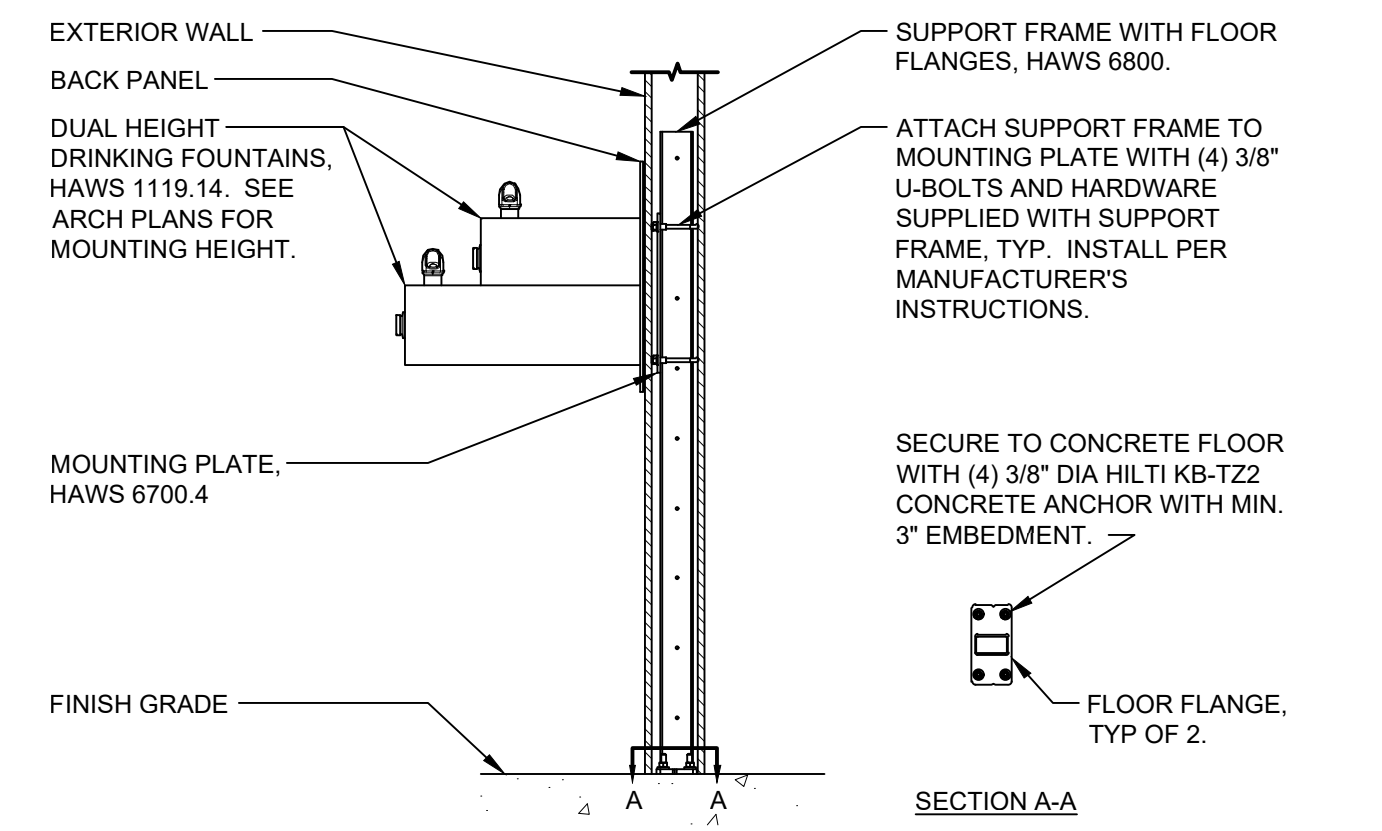
WATER RESOURCES DEPARTMENT
CITY OF BAKERSFIELD, CALIFORNIA

APPROVED: *Aut Chavella* 9/30/2022 DATE: 9/30/2022
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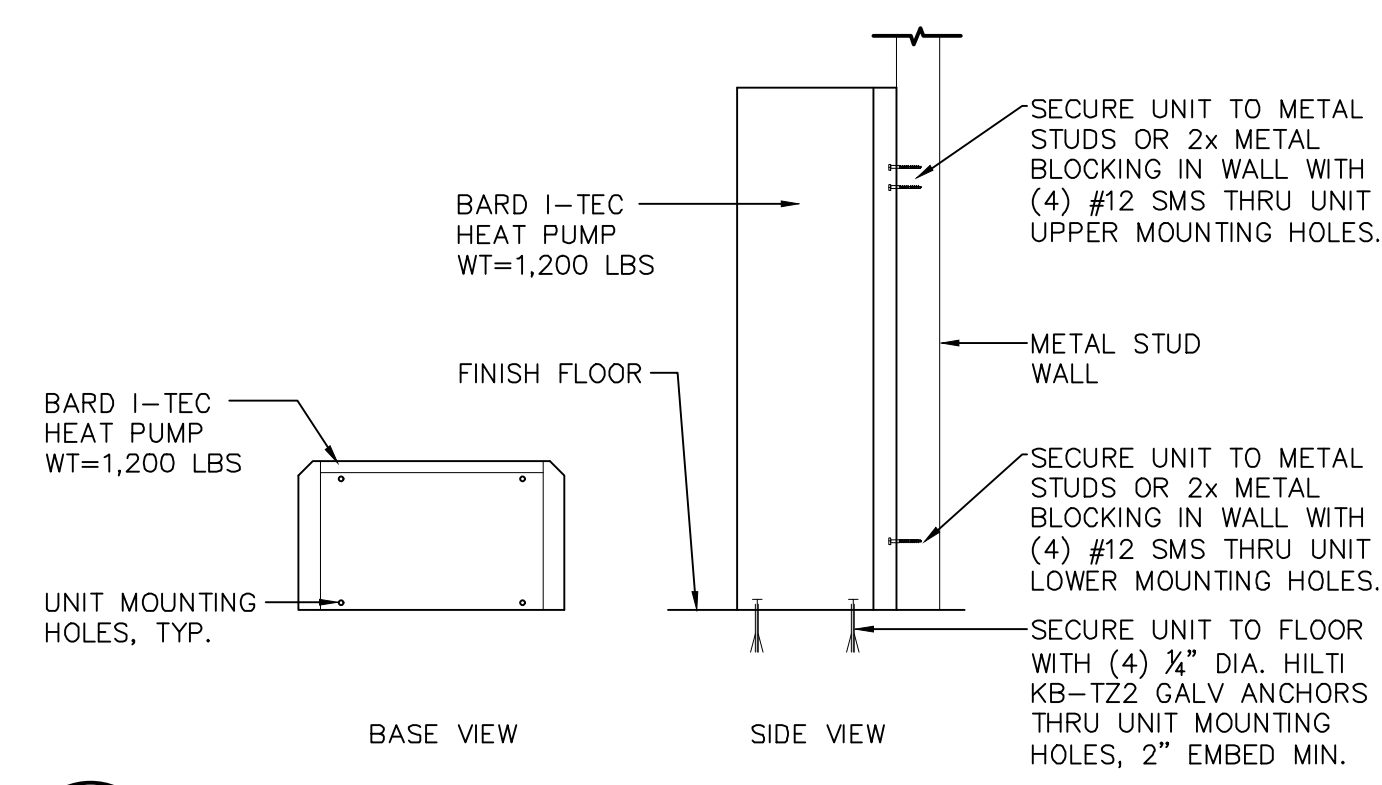
9 PIPE THROUGH ROOF

SCALE: N.T.S.



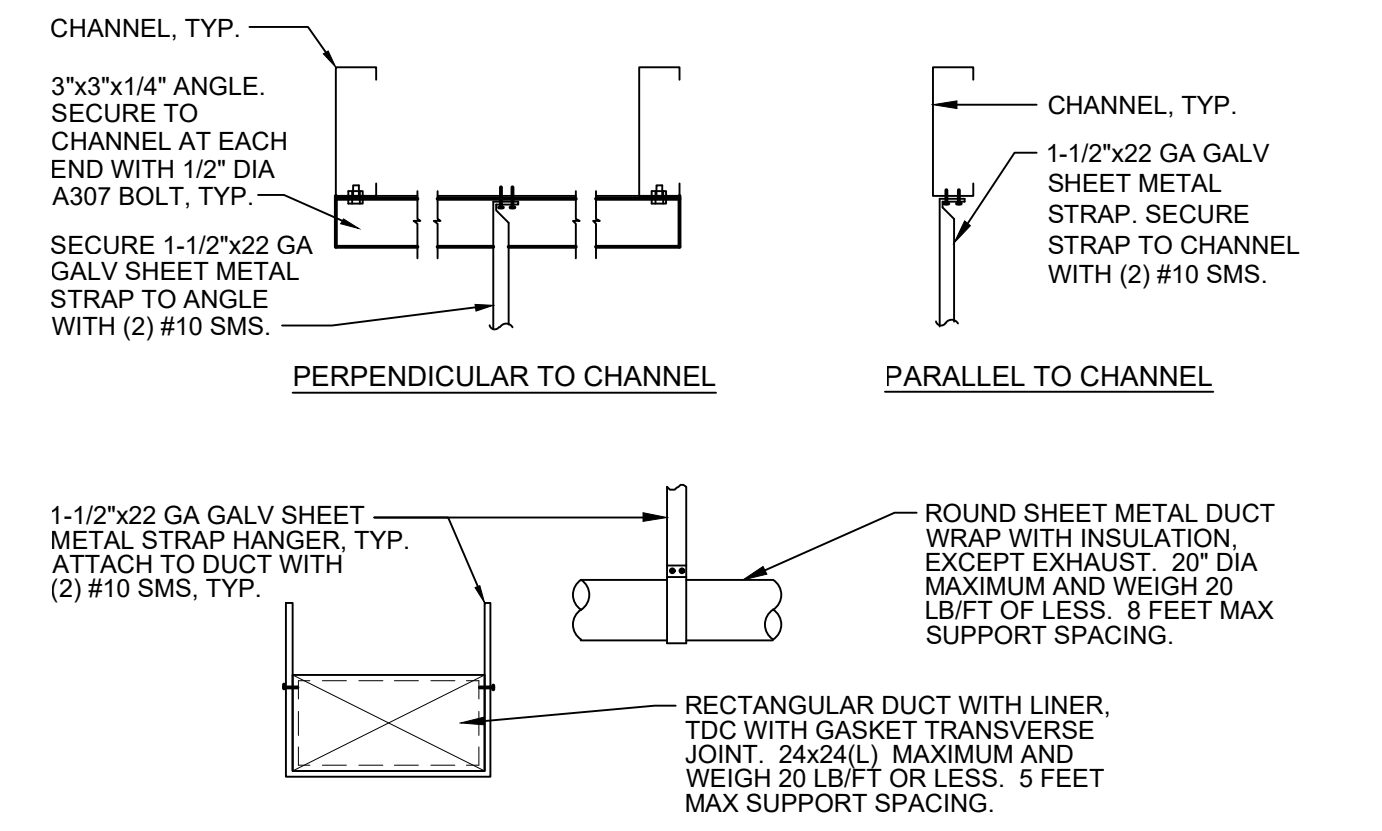
10 DRINKING FOUNTAINS - MOUNTING ON WALL

SCALE: N.T.S.



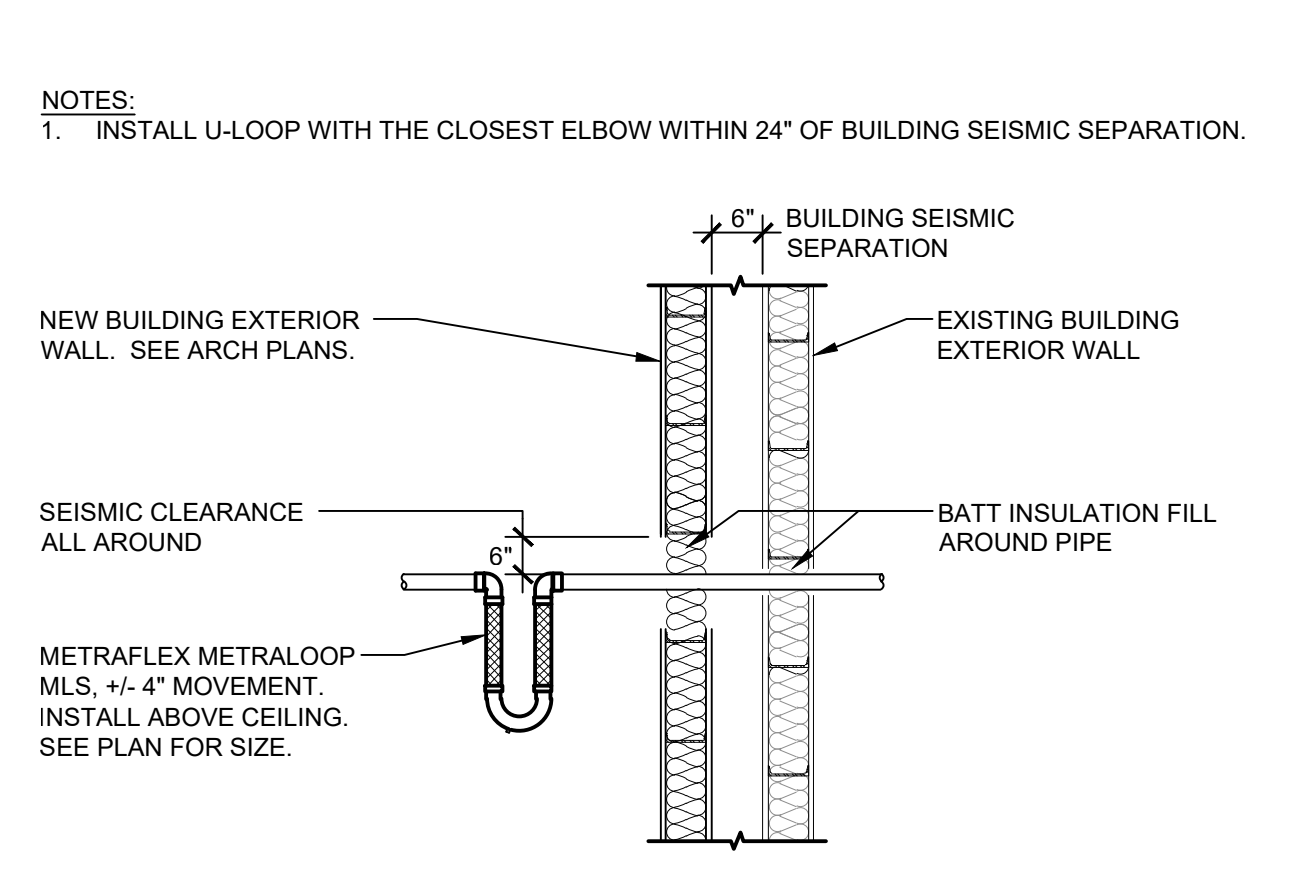
11 HEAT PUMP - MOUNTING

SCALE: N.T.S.



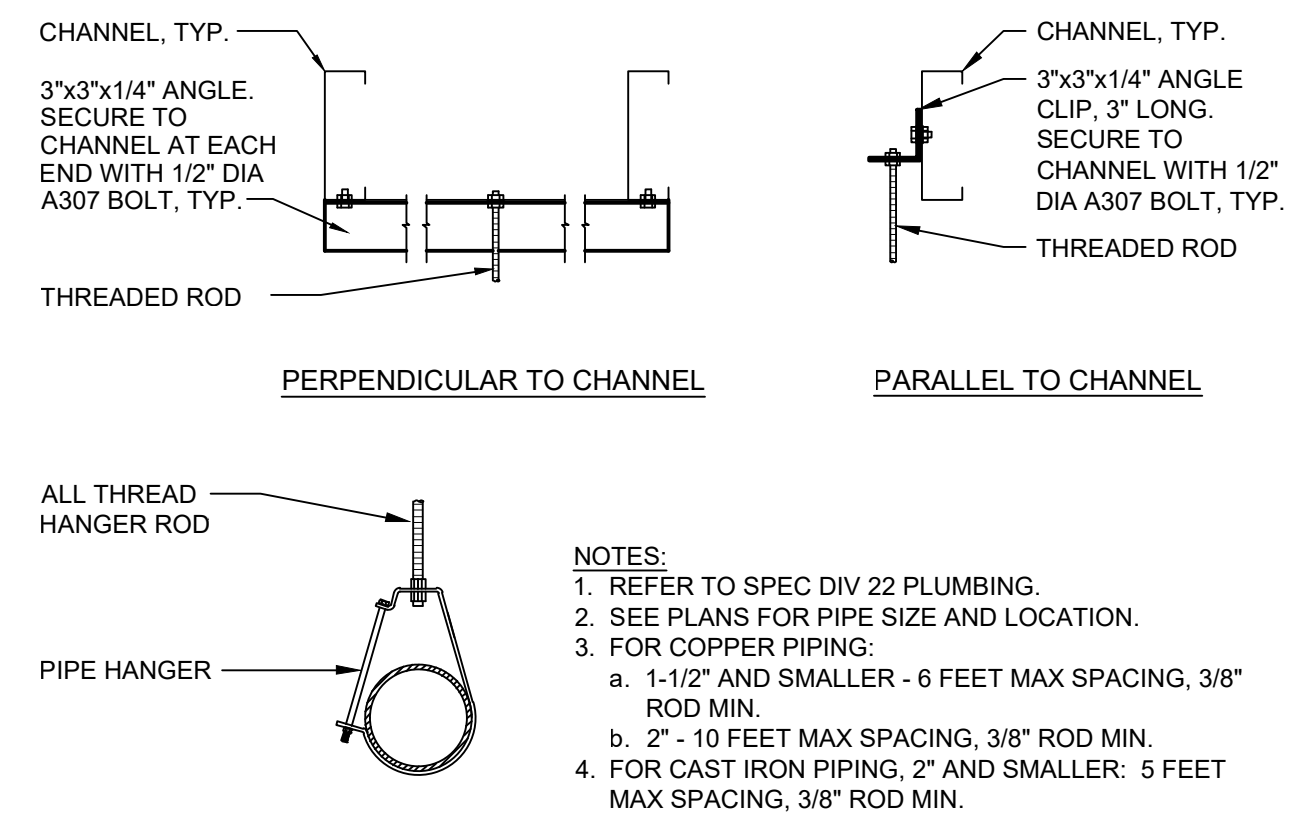
12 DUCT SUPPORT

SCALE: N.T.S.



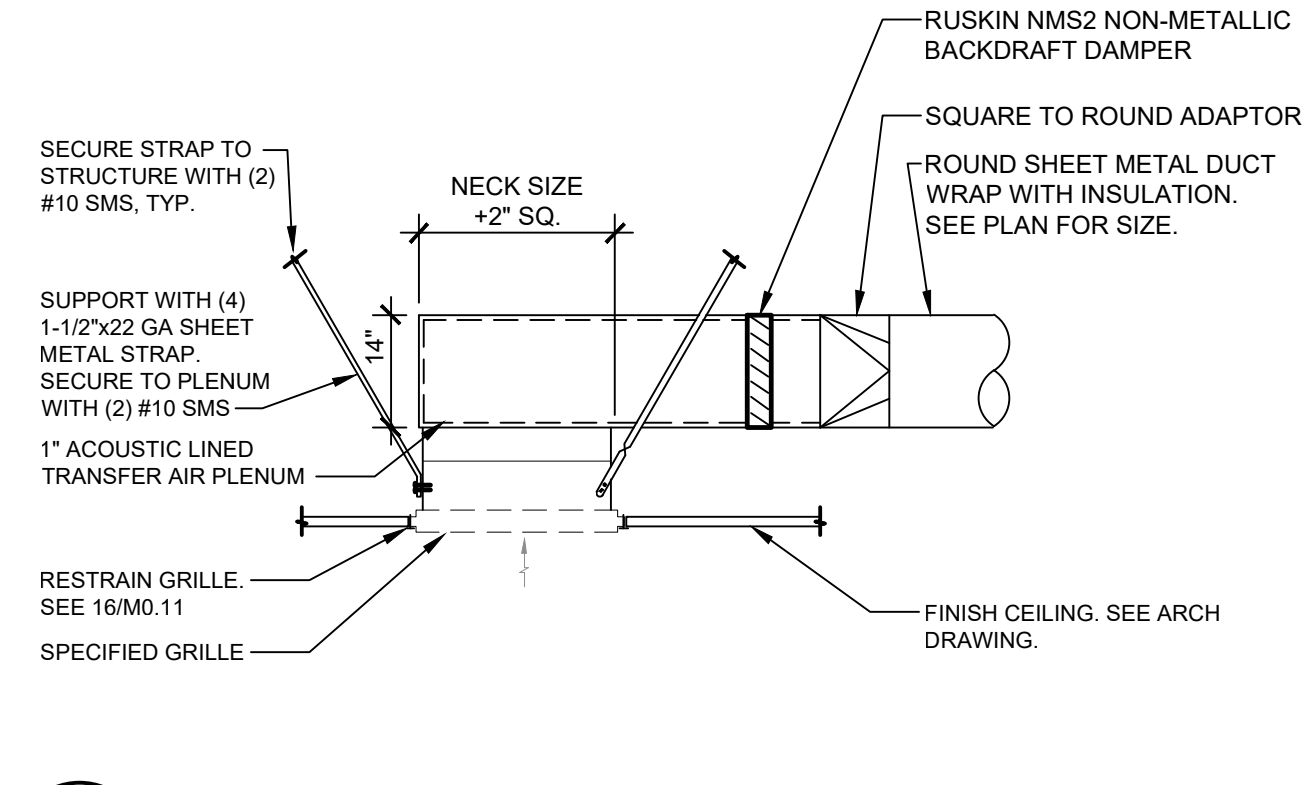
5 PIPE - BUILDING SEISMIC SEPARATION

SCALE: N.T.S.



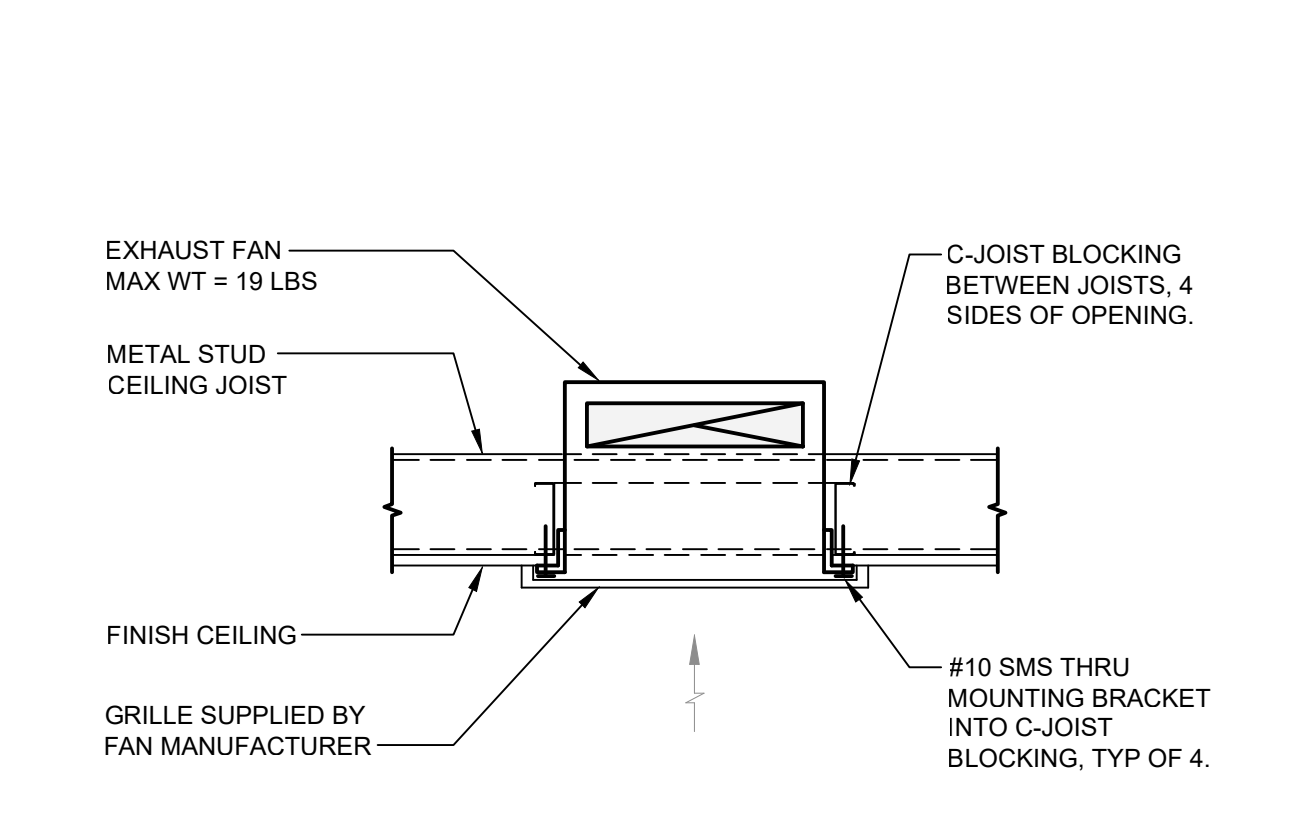
6 PIPE SUPPORT - HANGER

SCALE: N.T.S.



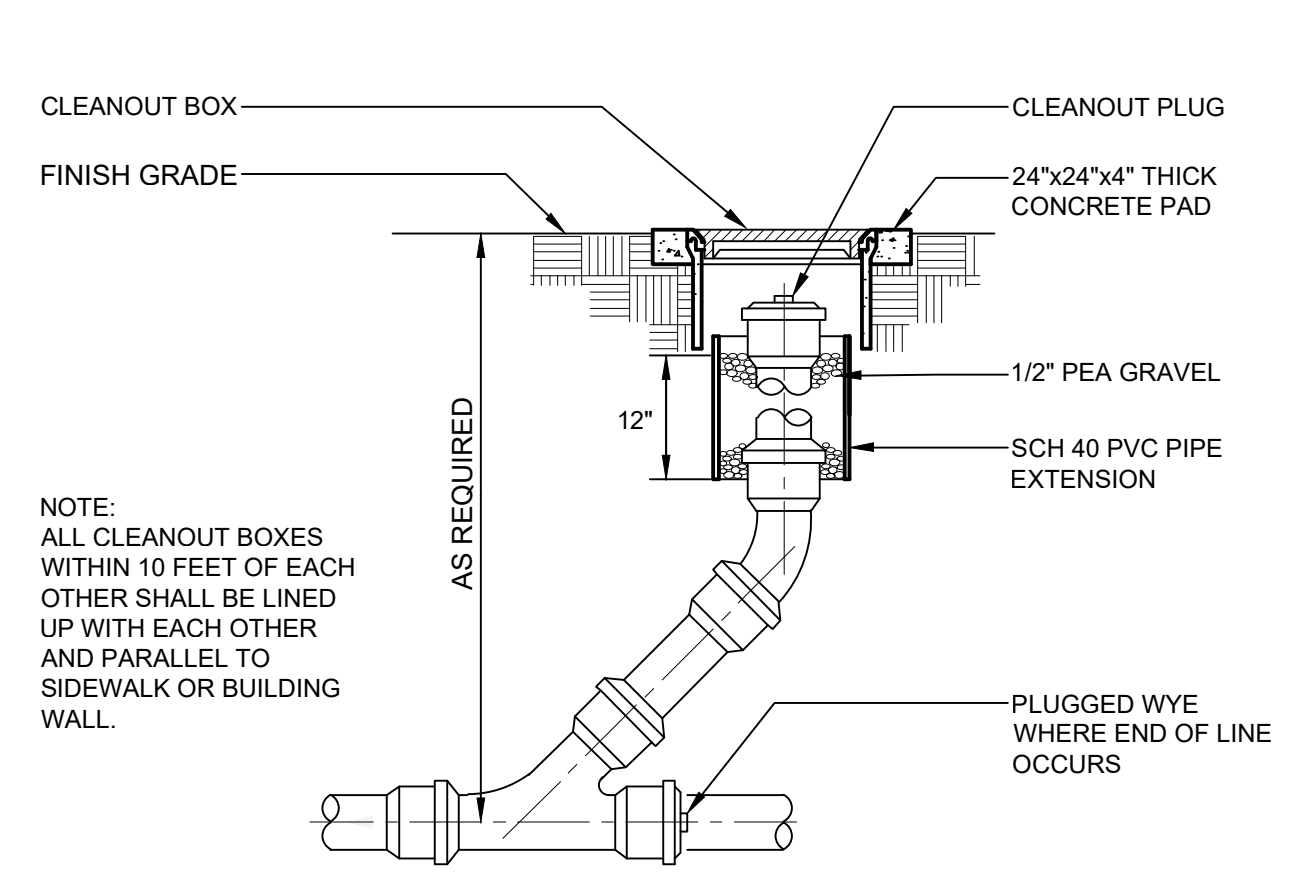
7 RETURN / TRANSFER AIR

SCALE: N.T.S.



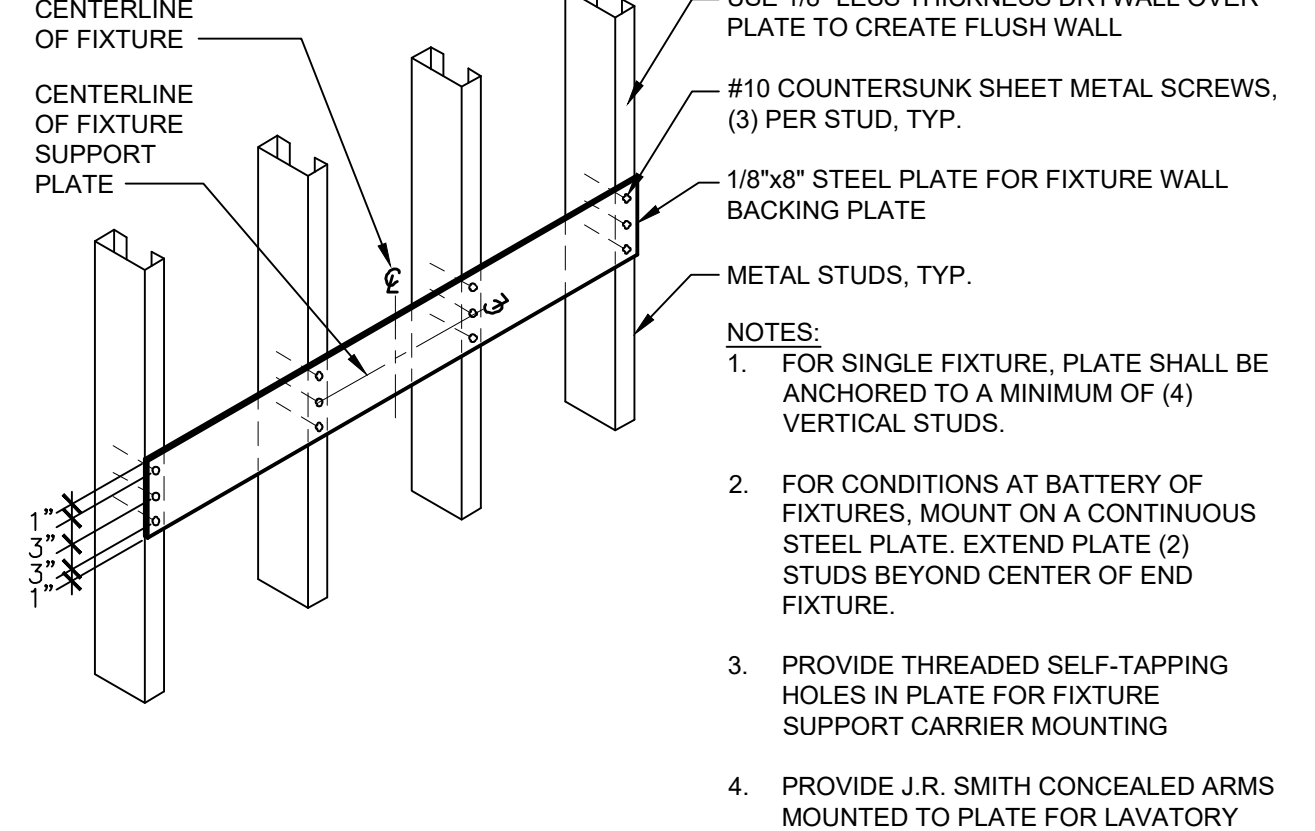
8 EXHAUST FAN - CEILING

SCALE: N.T.S.



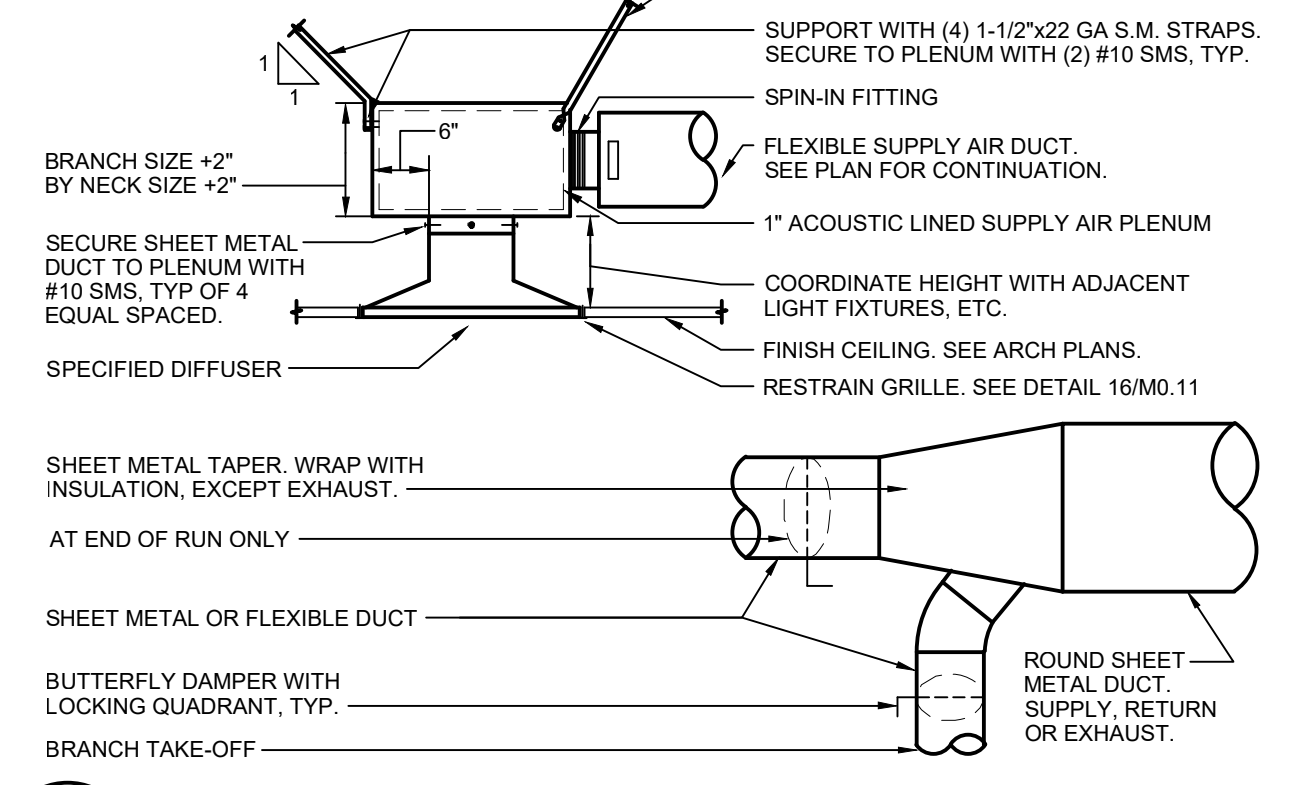
1 CLEANOUT TO GRADE (COTG)

SCALE: N.T.S.



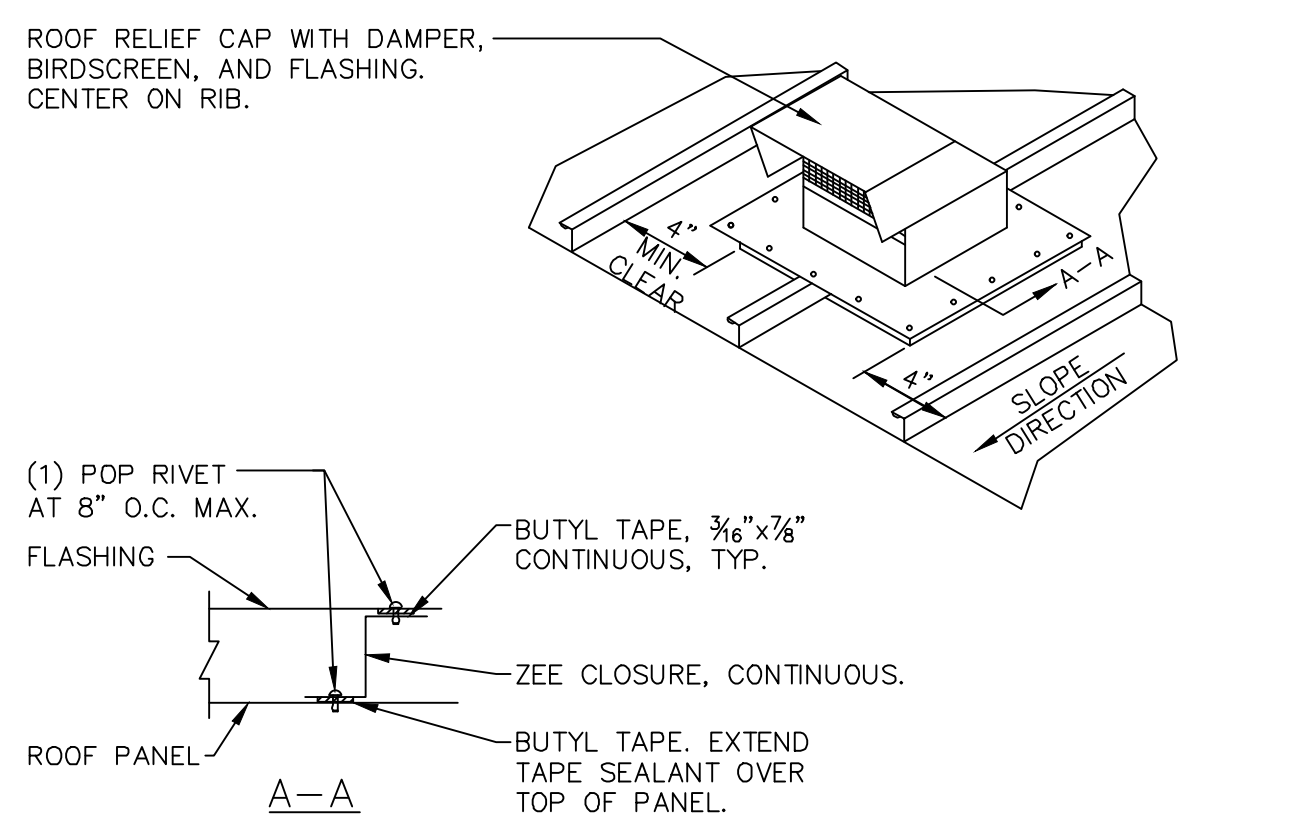
2 FIXTURE SUPPORT BACKING - METAL STUDS

SCALE: N.T.S.



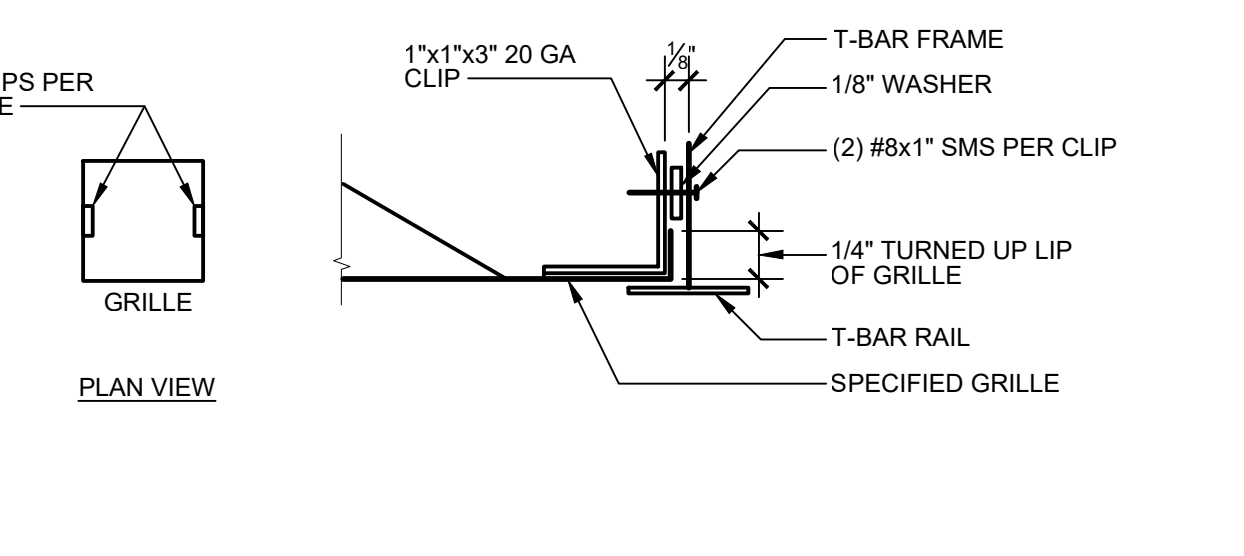
3 TYPICAL SUPPLY AIR DEVICE - BRANCH DUCT

SCALE: N.T.S.



4 ROOF CAP AND FLASHING

SCALE: N.T.S.



16 GRILLE RESTRAINT

SCALE: N.T.S.

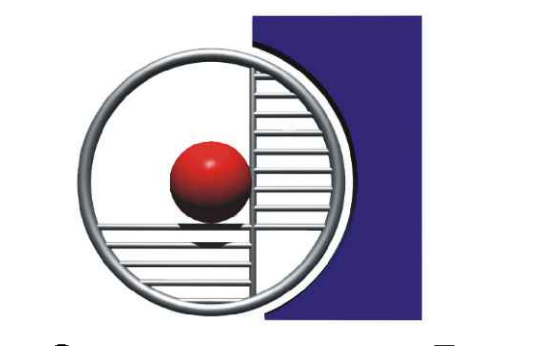
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DATE: 08/05/2024



BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST.
BAKERSFIELD CA 93305

TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
1100 Citadel
Bakersfield, CA 93307



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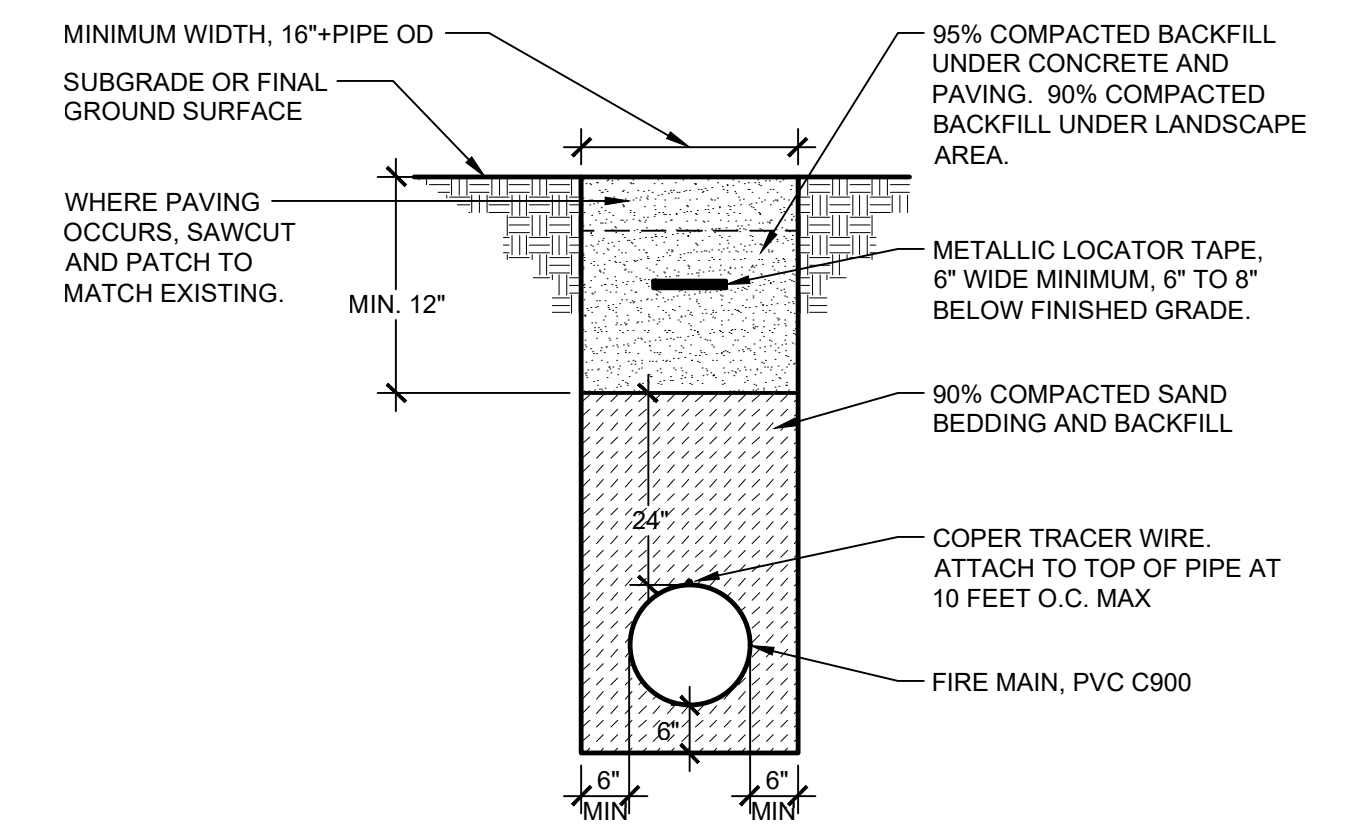
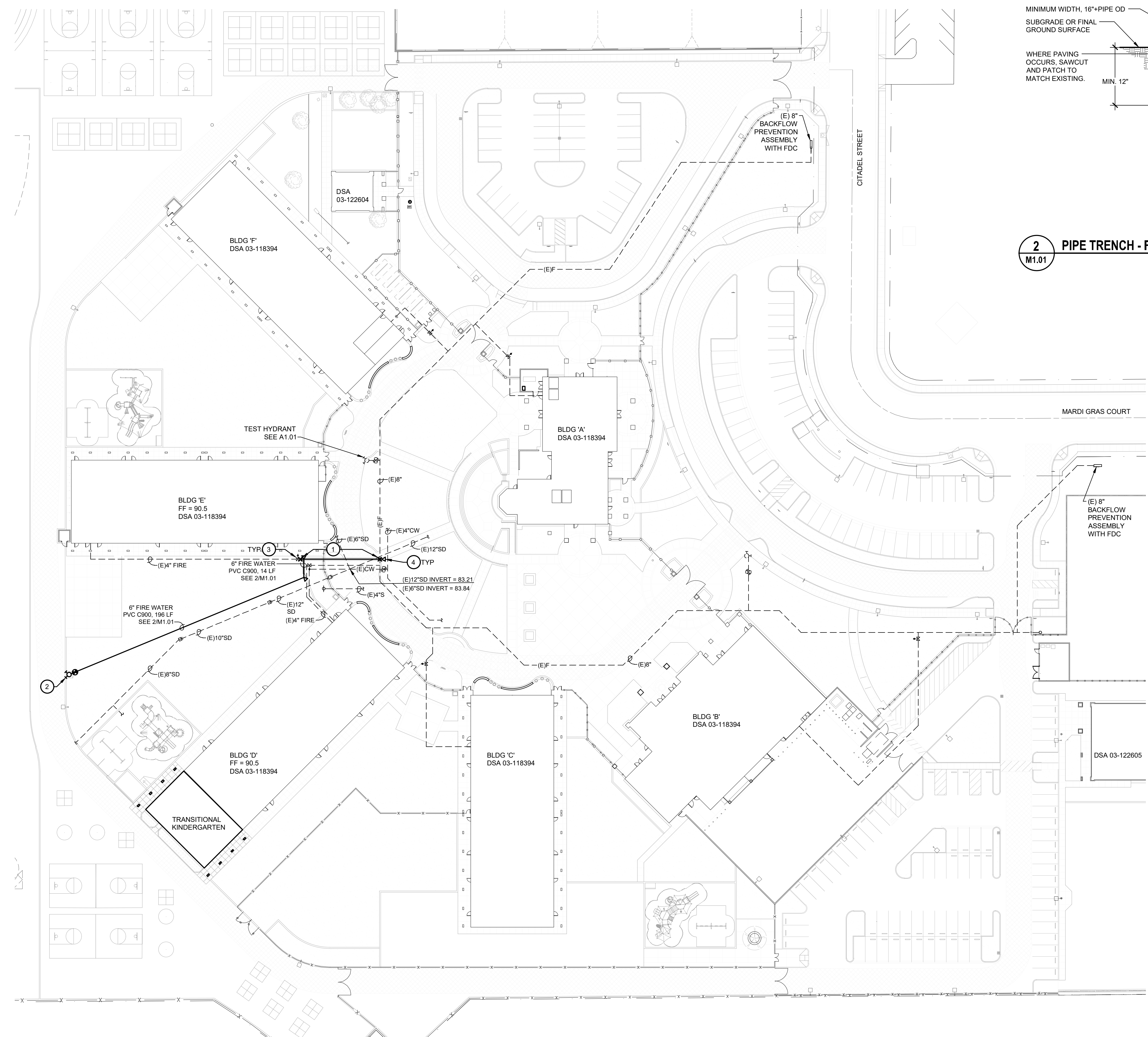
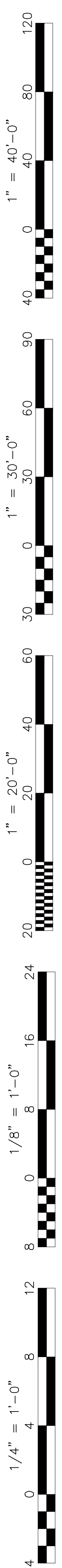


Sheet Title:

DETAILS

Job No.: **5593**

Sheet No.: **M0.11**



2 PIPE TRENCH - FIRE MAIN
M1.01 SCALE: N.T.S.

KEY NOTES

- REMOVE EXISTING 4" FIRE WATER PIPING BELOW GRADE AND REPLACE WITH NEW 8" FIRE WATER PIPING BETWEEN THE POC'S. FIELD VERIFY SERVICE, SIZE, AND LOCATION. SAWCUT AND PATCH TO MATCH EXISTING.
- FIRE HYDRANT AND SHUTOFF VALVE PER CITY OF BAKERSFIELD WATER RESOURCES DEPT STANDARD W-3. SEE M0.11
- EXISTING POST INDICATOR VALVE (PIV) TO REMAIN. TYP. PROTECT FROM DAMAGE.
- THRUST BLOCK, TYP. SEE CITY OF BAKERSFIELD WATER RESOURCES DEPT STANDARD W-2 ON SHEET M0.11.

GENERAL NOTES

- WATER PIPE FOR FIRE SERVICE SHALL BE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO AWWA C900, DR 14 PRESSURE CLASS 305 PSI, AND SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE THRUST BLOCKS FOR ALL TEES, PLUGS, CAPS AND BENDS PER NFPA 24. INSTALLING CONTRACTOR SHALL SIZE THE THRUST BLOCKS PER CITY OF BAKERSFIELD WATER RESOURCES DEPT STANDARD W-2. SEE M0.11
- HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND POST INDICATOR VALVES SHALL BE INSTALLED PER LOCAL FIRE PROTECTION DISTRICT STANDARDS.

LEGEND

SYMBOL	ABBR	DESCRIPTION
— F —	F	FIRE WATER
---	CW	DOMESTIC COLD WATER
---	S. W. D.	SOIL, WASTE OR DRAIN
— SD —	SD	STORM DRAIN
⊗	GV	GATE VALVE
⊕	FH	FIRE HYDRANT
⊔		ELBOW UP
⊓		ELBOW DOWN
⌋		CAP
⊕	FDC	FIRE DEPT CONNECTION
⊕	PIV	POST INDICATOR VALVE
△	TB	THRUST BLOCK
(E)	(E)	EXISTING
////	DEMO	(E) TO BE REMOVED
X	POC	POINT OF CONNECTION
TYP	TYP	TYPICAL

1 FIRE PROTECTION SITE PLAN
M1.01 **TRANSITIONAL KINDERGARTEN**

SCALE: 1" = 40'

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BAKERSFIELD CA 93305

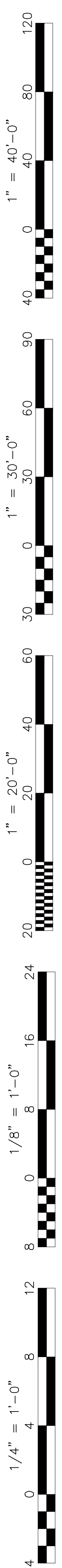
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Sheet Title:
FIRE PROTECTION SITE PLAN
Job No.: **5593**
Sheet No.: **M1.01**
Release Date: DSA SUBMITTAL Issue Date: 7/24/24



KEY NOTES

- REMOVE EXISTING HI/LO DRINKING FOUNTAIN. CAP PIPING BEHIND FINISH SURFACES. PATCH, REPAIR, AND PAINT OPENINGS TO MATCH EXISTING ADJACENT SURFACES.
- REMOVE EXISTING HOSE BIBB. CAP PIPING BEHIND FINISH SURFACES. PATCH, REPAIR, AND PAINT OPENING TO MATCH EXISTING ADJACENT SURFACES.
- EXISTING 4" COTG TO BE ADJUSTED AND REPLACED WITH NEW FLOOR CLEANOUT, FLUSH WITH NEW FINISH FLOOR. FIELD VERIFY SIZE, DEPTH, AND LOCATION.

LEGEND

SYMBOL	ABBR	DESCRIPTION
	S. W. D.	SOIL, WASTE OR DRAIN
	CW	DOMESTIC COLD WATER
	COTG	CLEANOUT TO GRADE
	GV OR SOV	GATE OR SHUT - OFF VALVE
		ELBOW UP
		ELBOW DOWN
	RED	REDUCER
	HB	HOSE BIBB
	AFF	ABOVE FINISH FLOOR
	CAP	CAP
	(E)	EXISTING
	DEMO	(E) TO BE REMOVED
	(N)	NEW
	POC	POINT OF CONNECTION
	TYP	TYPICAL

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Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
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Bakersfield, CA 93307

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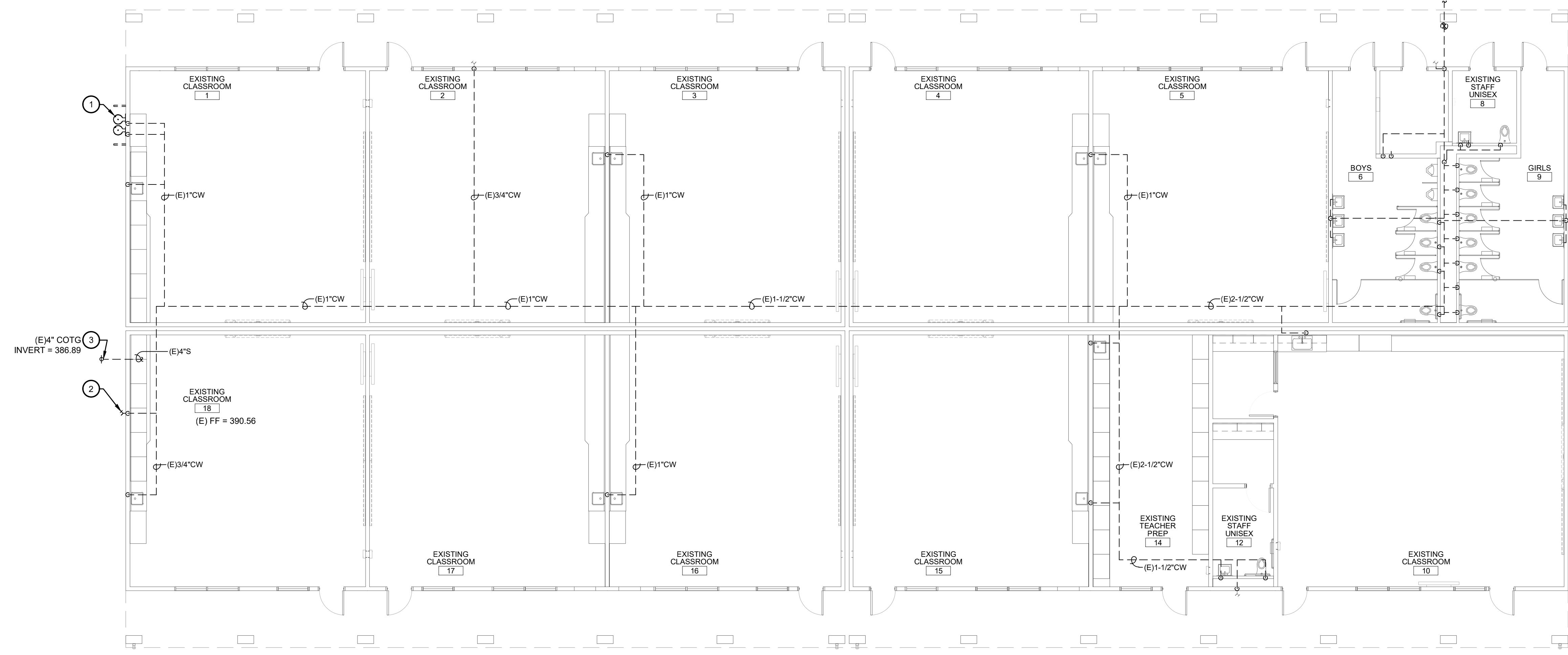
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Sheet Title:
MECHANICAL PLAN - DEMO

Job No.:
5593

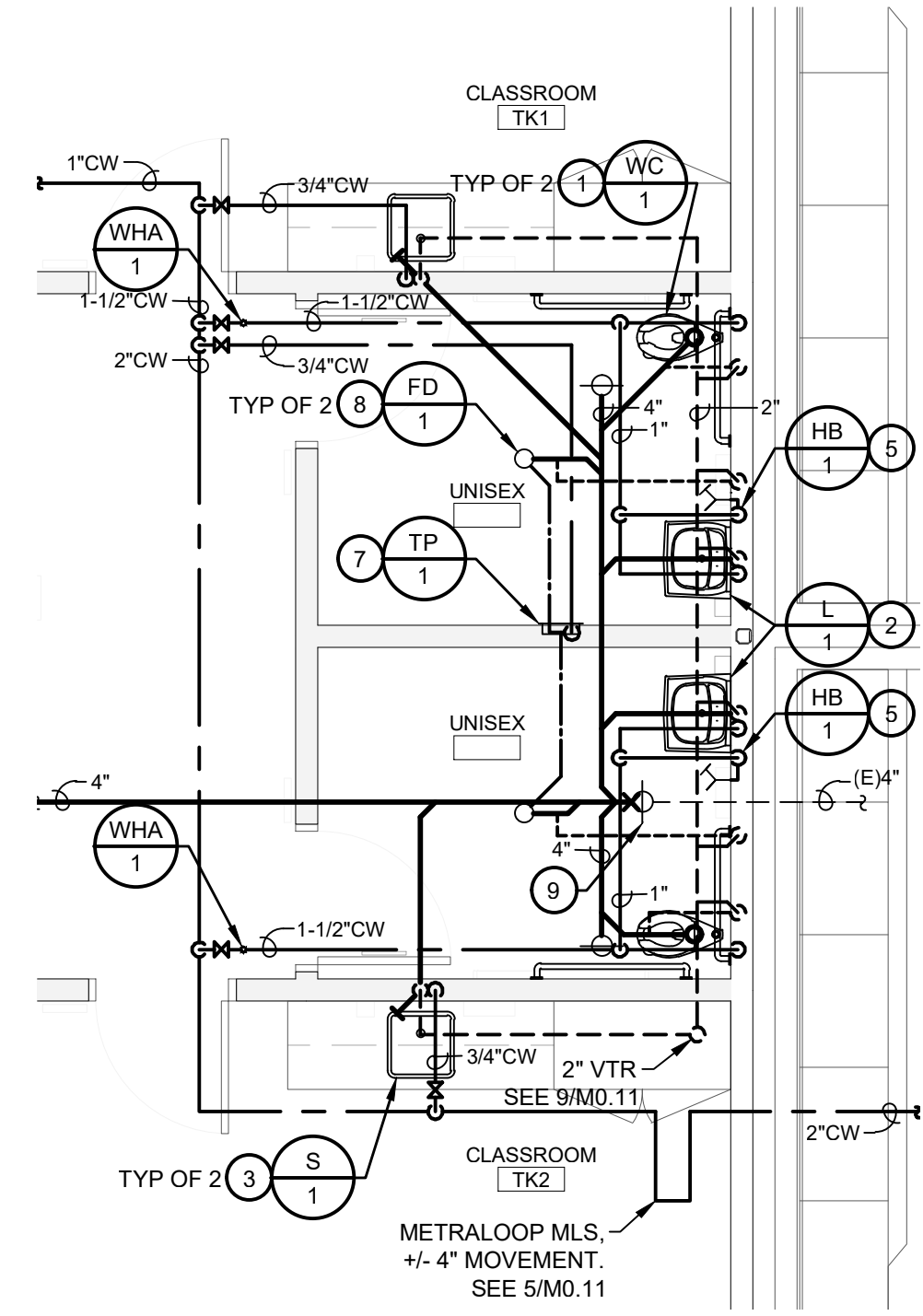
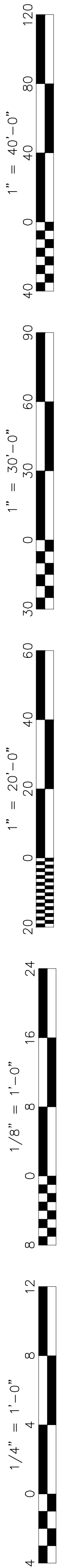
Sheet No.:
M2.11

Release: DSA SUBMITTAL Issue Date: 7/24/24



MECHANICAL PLAN - DEMO
TRANSITIONAL KINDERGARTEN

SCALE: 1/8" = 1'



2 ENLARGED PLUMBING PLAN
M2.12 TRANSITIONAL KINDERGARTEN SCALE: 1/4" = 1'

KEY NOTES	
1.	1-1/2" CW, 4" S, 2" V TO WATER CLOSET, TYP.
2.	3/4" CW, 2" W, 1-1/2" V TO LAV, TYP. SEE 2/MO.11
3.	3/4" CW, 2" W WITH WCO, 1-1/2" V TO SINK, TYP. BRANCH 1/2" CW TO BUBBLER.
4.	3/4" CW, 2" W WITH WCO, 1-1/2" V TO DRINKING FOUNTAIN, FOR EACH CONNECTION. SEE 10/MO.11
5.	3/4" CW TO HOSE BIBB BELOW LAV, TYP.
6.	3/4" CW TO HOSE BIBB AT +12" ABOVE FINISH GRADE, TYP.
7.	3/4" CW TO TRAP PRIMER WITH SHUTOFF VALVE IN WALL AT +24" BEHIND WALL ACCESS PANEL. EXTEND 1/2" CW BELOW FLOOR TO FLOOR DRAIN, TYP.
8.	1/2" CW BELOW FLOOR FROM TRAP PRIMER TO FLOOR DRAIN, TYP.
9.	REPLACE WITH NEW FLOOR CLEANOUT. FLUSH WITH NEW FINISH FLOOR. EXTEND 4" SEWER FOR NEW WORK.
10.	POC NEW 2" CW TO EXISTING 2-1/2" CW ABOVE CEILING WITH SHUTOFF VALVE. EXTEND 2" CW TO NEW ADDITION. FIELD VERIFY SIZE AND LOCATION. REPLACE CEILING TILES AS NEEDED. PATCH OPENINGS TO MATCH EXISTING.
11.	PACKAGE INDOOR HEAT PUMP UNIT ON FLOOR, TYP. SEE HVAC PLANS FOR EXACT LOCATION.
12.	CONNECT 3/4" DRAIN TO PACKAGE INDOOR HEAT PUMP UNIT, DISCHARGE THROUGH WALL WITH 90 ELL TURNED DOWN AT +12" ABOVE PLANTER. SEAL OPENING WATER-TIGHT.

LEGEND		
SYMBOL	ABBR	DESCRIPTION
	S. W. D.	SOIL, WASTE OR DRAIN
	CW	DOMESTIC COLD WATER
	COTG	CLEANOUT TO GRADE
	FCO	FLOOR CLEANOUT
	GV OR SOV	GATE OR SHUT - OFF VALVE
		ELBOW UP
		ELBOW DOWN
	RED	REDUCER
	HB	HOSE BIBB
	AFF	ABOVE FINISH FLOOR
		CAP
	(E)	EXISTING
	DEMO	(E) TO BE REMOVED
	(N)	NEW
	X	POINT OF CONNECTION
	TYP	TYPICAL

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BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
 BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
 1100 Citadel
 Bakersfield, CA 93307

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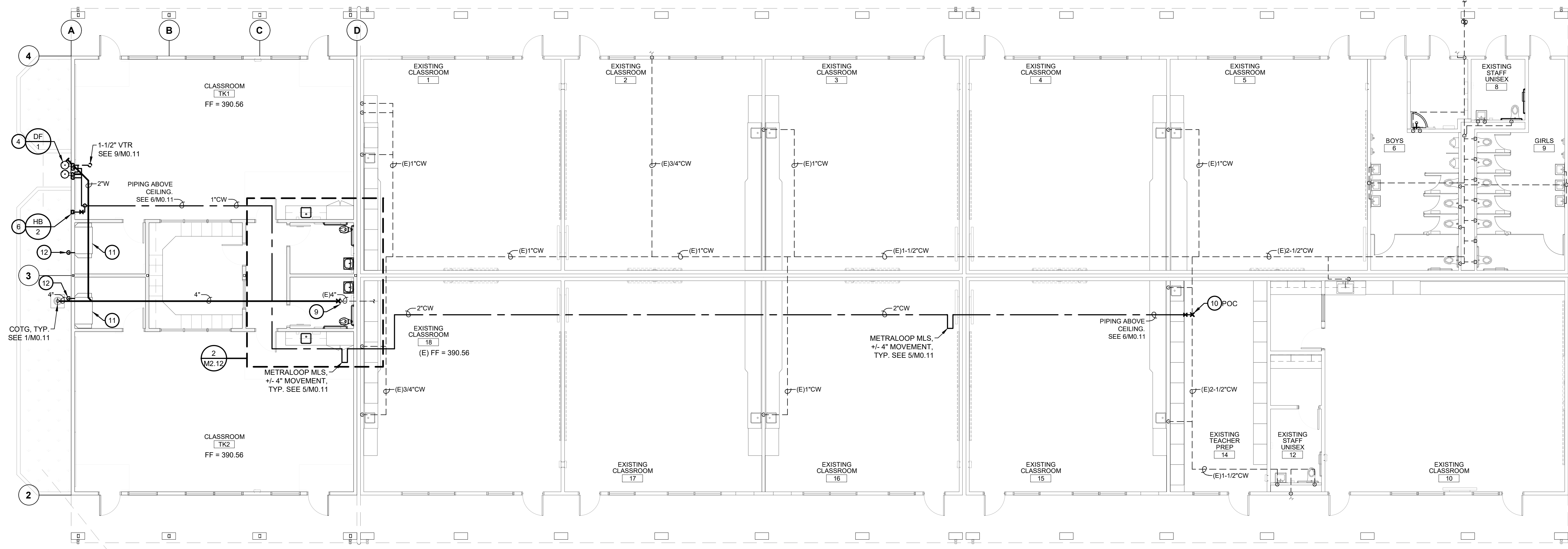
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MECHANICAL PLAN - PLUMBING

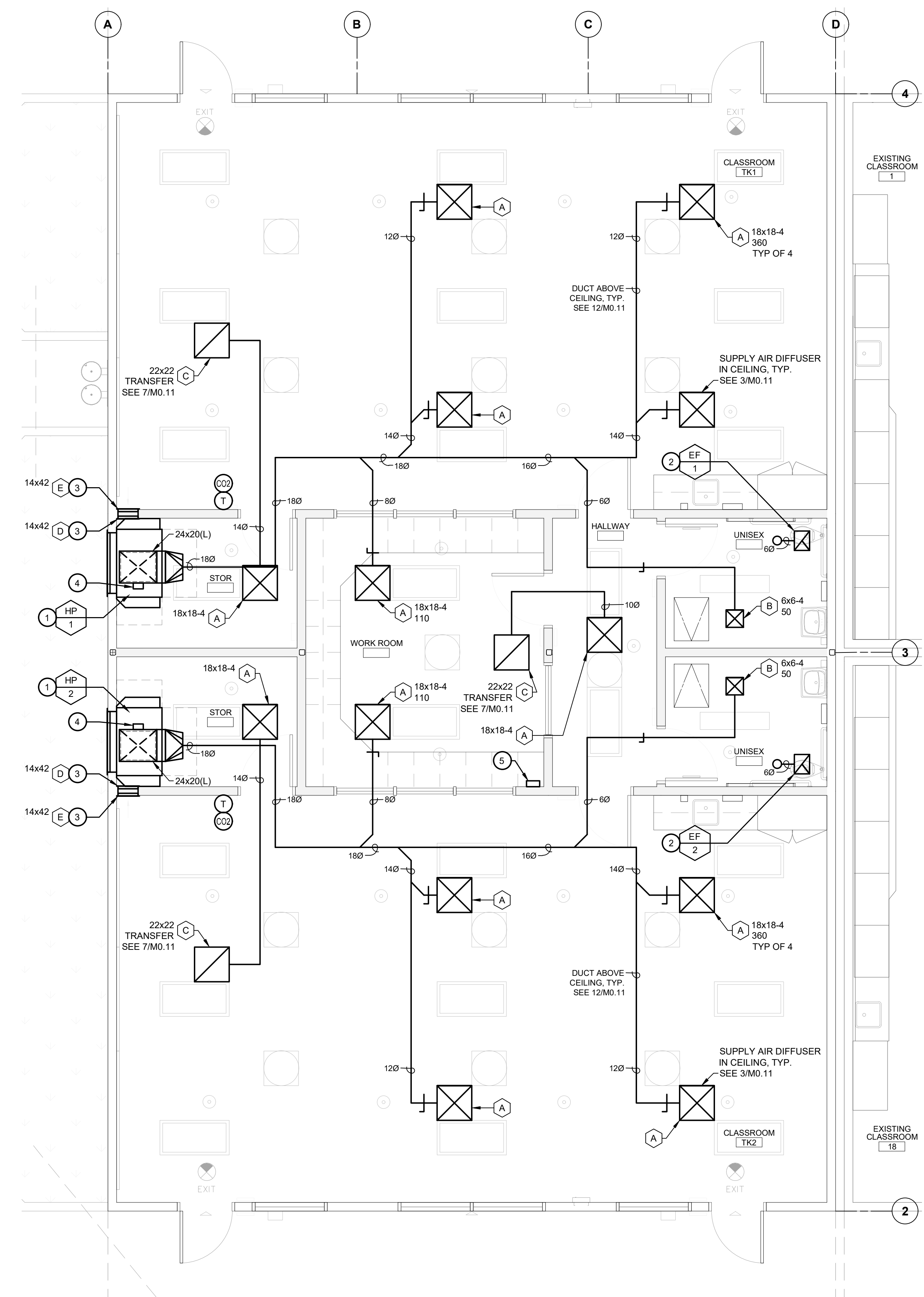
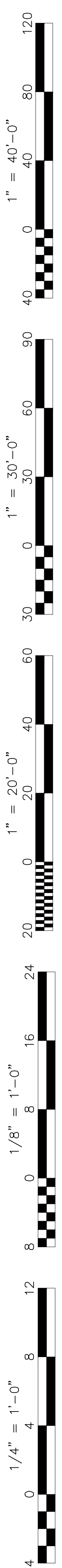
Job No.:
5593

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M2.12

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1 MECHANICAL PLAN - PLUMBING
M2.12 TRANSITIONAL KINDERGARTEN SCALE: 1/8" = 1'



MECHANICAL PLAN - HVAC
TRANSITIONAL KINDERGARTEN

SCALE: 1/4" = 1'

KEY NOTES

- INTERIOR PACKAGED HEAT PUMP UNIT ON FLOOR WITH WALL SLEEVE, WALL LOUVER, TOP CABINET EXTENSION TO CEILING SUPPLIED BY UNIT MANUFACTURER. SEE 11/M0.11
- CEILING EXHAUST FAN WITH 6" ROUND EXHAUST DUCT THRU ROOF. PROVIDE ROOF FLASHING AND CAP ASSEMBLY. PAINT TO MATCH ADJACENT SURFACES. SEE DETAILS 4 AND 8/M0.11
- 14x42 DUCT IN WALL WITH GRILLES ON BOTH ENDS. DUCT TO FIT IN BETWEEN 2x STUDS WITH 16" SPACING. BOTTOM OF GRILLES AT 21" ABOVE FINISH FLOOR.
- AIR IONIZATION SYSTEM IN SUPPLY AIR DUCT. NU-CALGON I WAVE-C. PROVIDE 120V POWER.
- HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120V WALL OUTLET.

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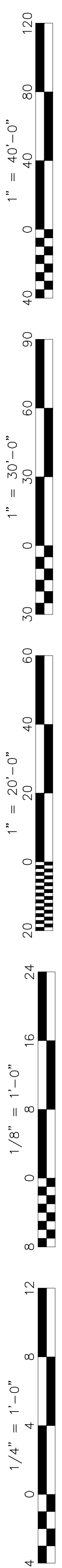
Sheet Title:
MECHANICAL PLAN - HVAC

Job No.: **5593**

Sheet No.: **M3.11**

LEGEND

SYMBOL	DESCRIPTION	ABBR
	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	AC-1
	GRILLE DESIGNATION NECK SIZE & BLOW CFM	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EXH
	ACOUSTIC LINED DUCT	(L)
	DUCT RISER	
	DUCT DROP	
	SQUARE TO ROUND FITTING	
	FIRE/SMOKE DAMPER	FSD
	DUCT SMOKE DETECTOR	SD
	VOLUME CONTROL DAMPER	VCD
	CARBON DIOXIDE SENSOR AT 48" MAXIMUM TO TOP OF BOX	CO2
	SWITCH	
	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
	REFRIGERANT LIQUID	RL
	REFRIGERANT SUCTION	RS
	ABOVE FINISH FLOOR	AFF
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	OUTSIDE AIR	OSA
	POINT OF CONNECTION	POC
	TYPICAL	TYP



C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS ¹			
Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Receptacle	4.93	4.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	23.1	22.66	0.44 (1.9%)

¹ Notes: This table is not used for Energy Code Compliance.

C6. ABOVE CODE QUALIFICATIONS

This project is pursuing CalGreen Tier 1 This project is pursuing CalGreen Tier 2

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kWh/ft ² - yr)			
COMPLIES ²			
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ²
Space Heating	8.83	11.06	-2.23
Space Cooling	80.01	86.77	-6.76
Indoor Fans	98.72	77.78	20.94
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	31.41	31.49	-0.08
Indoor Lighting	26.72	32.07	-5.35
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	245.69	239.17	6.52 (2.7%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	245.69	239.17	6.52 (2.7%)

² Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

Project Name: BCSD MLK Elem School - Transitional Kindergarten Date Prepared: 2024-01-05

A. General Information			
1 Project Name	BCSD MLK Elem School - Transitional Kindergarten		
2 Run Title	Title 24 Analysis		
3 Project Location	1100 Citadel Street		
4 City	Bakersfield	5 Standards Version	Compliance 2022
6 Zip code	93307	7 Compliance Software (version)	EnergyPro 9.2
8 Climate Zone	13	9 Building Orientation (deg)	315
10 Building Type(s)	• Nonresidential	11 Weather File	MEADOWS-FIELD_STYP20.epw
12 Project Scope	• New envelope and mechanical	13 Number of Dwelling Units	0
14 Total Unconditioned Floor Area in Scope (ft ²)	2530	15 Total # of hotel/motel rooms	0
16 Total Unconditioned Floor Area (ft ²)	0	17 Fuel Type	Natural gas
18 Nonresidential Conditioned Floor Area	2530	19 Total # of Stories (Habitable Above Grade)	1
20 Residential Conditioned Floor Area	0		

C7. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.6	0.8	-0.2	---	---	---
Space Cooling	5.7	6.2	-0.5	---	---	---
Indoor Fans	8.8	6.9	1.9	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	3.2	3.2	0	---	---	---
Indoor Lighting	2.6	3.1	-0.5	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	20.9	20.2	0.7	0	0	0
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	20.9	20.2	0.7	0	0	0
Receptacle	6.7	6.7	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	27.6	26.9	0.7	0	0	0

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS ¹			
Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ²
Receptacle	65.89	65.89	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	311.58	305.06	6.52 (2.1%)

¹ Notes: This table is not used for Energy Code Compliance.

B. PROJECT SUMMARY			
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 the permit application.			
Building Components Complying via Performance		Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres Multifam	Performance Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
Mechanical (See Table H)	Nonres Multifam	Performance Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
Domestic Hot Water (See Table I)	Nonres Multifam	Performance Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included
	Multifam	Performance Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included

C8. ENERGY USE INTENSITY (EUI)				
	Standard Design (kBtu/ft ² / yr)	Proposed Design (kBtu/ft ² / yr)	Margin (kBtu/ft ² / yr)	Margin Percentage
GROSS EUI ¹	37.22	36.28	0.94	2.53
NET EUI ¹	37.22	36.28	0.94	2.53

¹ Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylight Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylight Zones is required.
- The building does not include service water heating. Verify that service water heating is not included in the design.
- PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)			
	01	02	03
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing ¹	0	0	---
East-Facing ²	378	72	19.05
South-Facing ³	580.5	0	0
West-Facing ⁴	378	72	19.05
Total	1336.5	144	10.77

Notes

¹North-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).

²East-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).

³South-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).

⁴West-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).

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kWh/ft ² / yr)			
COMPLIES ²			
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Space Heating	1.14	1.45	-0.31
Space Cooling	3.6	4.04	-0.44
Indoor Fans	8.3	6.68	1.62
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.99	2.99	0
Indoor Lighting	2.14	2.57	-0.43
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	18.17	17.73	0.44 (2.4%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	18.17	17.73	0.44 (2.4%)

² Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

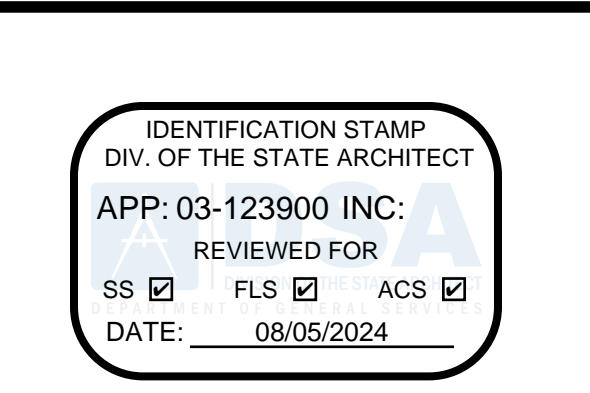
C1. COMPLIANCE SUMMARY			
	COMPLIES ³		Source Energy Use
	Time Dependent Valuation (TDV)	Source Energy Use	
	Efficiency ¹ (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)
Standard Design	245.69	245.69	18.17
Proposed Design	239.17	239.17	17.73
Compliance Margins	6.52	6.52	0.44
	Pass	Pass	Pass

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment


² Compliance Totals include efficiency, photovoltaics and batteries

³ New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded



Owner:



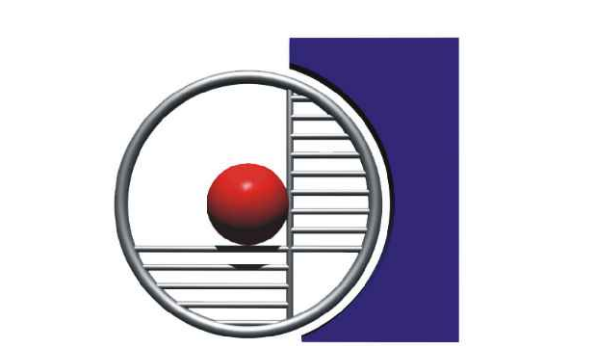
BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
 BAKERSFIELD CA 93305

Project Name:

TRANSITIONAL KINDERGARTEN

Project Address:

MLK ELEMENTARY SCHOOL
 Bakersfield, CA 93307



integrated designs
 by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

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Stamp:

Sheet Title:

TITLE 24 DOCS

Job No.:

5593

Sheet No.:

M4.01

Documentation Author's Declaration Statement
 1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Lisa Lum
 Company: Integrated Designs by SOMAM, Inc.
 Address: 6011 North Fresno Street, Suite 130
 City/State/Zip: Fresno, CA 93710

Documentation Author Signature: *[Signature]*
 Signature Date: 2024-01-05
 CEA/HERS Certification Identification (if applicable):
 Phone: 559-436-0881

Responsible Person's Declaration Statement
 I certify the following 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 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.
- 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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement.
- I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Curtis Flynn
 Company: Integrated Designs by SOMAM, Inc.
 Address: 6011 North Fresno Street, Suite 130
 City/State/Zip: Fresno, CA 93710
 Phone: 559-436-0881

Responsible Designer Signature: *[Signature]*
 Date Signed: 2024-01-05
 License #: C 28966
 Title: ARCH Scope: ENVT

Responsible Designer Name: Lisa Lum, PE
 Company: Integrated Designs by SOMAM, Inc.
 Address: 6011 North Fresno Street, Suite 130
 City/State/Zip: Fresno, CA 93710
 Phone: 559-436-0881

Responsible Designer Signature: *[Signature]*
 Date Signed: 2024-01-05
 License #: M32712
 Title: ENGR Scope: MECH

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status ¹
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HP-1 and HP-2	Single Package VHP Air System	2	56.24	0	COP	3.5	51.37	EER	11	Fixed DB	N

¹Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan			Return / Relief Fan				Status ¹		
			CFM	Power	Power Units	Control	Fan Type	CFM	Power		Power Units	Control
HP-1 and HP-2	2	480.7	1,600	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

¹Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status ¹
TK Classrooms1	1-TK Classrooms	2	110	0.03	BHP	No	N

¹Status: N - New, A - Altered, E - Existing

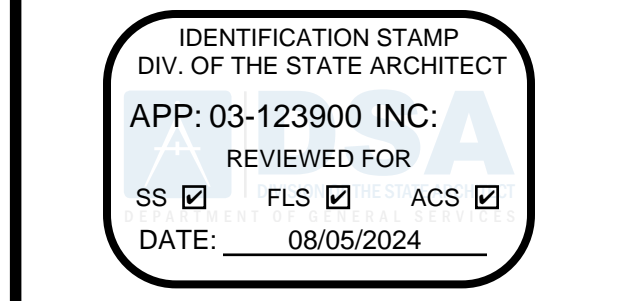
G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
Roof	2608	43.96	1.69

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).

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1 - 9ft-On ceiling	Air barrier - not verified



Owener:

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Sheet Title:
TITLE 24 DOCS

Job No.:
5593

Sheet No.:
M4.02

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n) ¹	Other Special Features and Controls
HP-1 and HP-2	Single Package VHP Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
¹ Yes = Interlocks are provided, No = Interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Ventilation Function	# of People	Mechanical Ventilation		Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
			Supply OA CFM	Exhaust CFM		
1-TK Classrooms	Education - Classrooms (ages 5-8)	63.25	961.4	220	2530	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Airflow (cfm)		Fan		Power	Power Units	Cycles	VSD
			Heating	Cooling	Design	Min.	Min. Ratio					
1-TK Classrooms-Trm	Uncontrolled	2	N/A	N/A	3,200	N/A	0	N/A	N/A	N/A	N/A	<input type="checkbox"/>

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections made by Documentation Author 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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
					Continuous R-Value Interior	Continuous R-Value Exterior				
Surface Name	Construction Type	Area (ft ²)	Framing Type	Cavity R-Value	Units	Value	Description of Assembly Layers	Status ¹		
StandingSeamRoof12inMtlR7	Roof	1,988	Metal	30	N/A	N/A	U-factor	0.0548	Metal Standing Seam - 1/16 in. Plywood - 1/2 in. Composite-1 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in. Stucco - 7/8 in. Building Paper - 1/16 in. Plywood - 1/2 in. Composite-2 Gypsum Board - 1/2 in. Fiberboard sheathing - 1/2 in.	N
6inMtlStud16ocR19TackBoar15	Exterior Wall	1,188	Metal	19	N/A	N/A	U-factor	0.141	Metal Standing Seam - 1/16 in. Plywood - 1/2 in. Composite-3 Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
SlabOnGrade4in-24	Underground Floor	2,530	N/A	0	N/A	N/A	F-factor	0.73	Slab Type = Unheated slab on grade Insulation Orientation = none Insulation R-Value = none	N
StandingSeamRoof6inMtlR41	Roof	620	Metal	21	N/A	N/A	U-factor	0.0704	Metal Standing Seam - 1/16 in. Plywood - 1/2 in. Composite-4 Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
6inMtlStud16ocR19Gyp-55	Exterior Wall	148.5	Metal	19	N/A	N/A	U-factor	0.162	Stucco - 7/8 in. Building Paper - 1/16 in. Plywood - 1/2 in. Composite-4 Gypsum Board - 5/8 in.	N

¹Status: N - New, A - Altered, E - Existing

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Selections made by Documentation Author indicate which Certificates of Verification 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

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

There are no Certificates of Verification applicable to this project

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

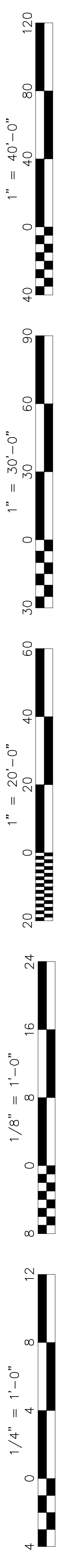
01	02	03	04
Assembly Name	Area (ft ²)	Overall U-factor	Status ¹
MetalDoorInsulated-17	84	0.5	N

¹Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²
Solutube 750 DS-C TubularDaylightSystern	Skylight Fixed window N/A	NFRC	Manufactured	43.96	0.32	0.25	0.48	N
Double Metal Tinted	Vertical fenestration Fixed window Metal	Default 110.6	Site built	144	0.76	0.6	0.77	N

¹Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix N45 and are used in the analysis.
²Status: N - New, A - Altered, E - Existing



GENERAL NOTES


SYMBOLS

- VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
- THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
- CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
- ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
- CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
- FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
- ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSHING FOR FUTURE BREAKER OR SWITCH.
- CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
- GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
- ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
- THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL CONDUCTORS SHALL BE IN CONDUIT.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.

- CONDUIT EXISTING
 - CONDUIT CONCEALED IN WALL OR CEILING
 - CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
 - CONDUIT STUBBED OUT AND CAPPED
 - CONDUIT TURNED UP
 - CONDUIT TURNED DOWN
 - /// HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1" C., NO MARKS = 2#12
 - ← A-3 HAVE RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
 - SANGUIT
 - GROUND CONNECTION
 - /// DISTRIBUTION SWITCHBOARD OR PANEL
 - PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
 - SIGNAL TERMINAL CABINET, SURFACE & FLUSH
 - LINEAR SURFACE FIXTURE
 - OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
 - SURFACE FIXTURE ON FLUSH OUTLET.
 - RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
 - EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
 - LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
 - LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
 - MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
 - SPECIAL RECEPTACLE - SEE PLAN
 - METER
 - FLUSH FLOOR RECEPTACLE
 - RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" UNO.
 - DUPLEX RECEPTACLE MTD. ABOVE BACKPLASH
 - DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
 - GFI
 - GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
 - DOUBLE DUPLEX RECEPTACLE
 - CEILING RECEPTACLE
 - RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" UNO.
 - JUNCTION BOX 4" SQUARE, 1-1/2" DEEP UNO.
 - THERMOSTAT F.P.O. +18"
 - MOTOR, NO. INDICATES HORSEPOWER
 - CLOCK OUTLET +7-6" UNO.
 - DISCONNECT SWITCH, NON-FUSED
 - DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
 - COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
 - MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
 - DIMMER W/INTEGRAL "ON-OFF" SW.
 - PUSHBUTTON
 - PHOTOCELL
 - SMOKE DETECTOR
 - ADDRESSABLE ATTIC HEAT DETECTOR
 - DUAL MONITORING MODULE
 - TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GRAMMETED OPENING +18" UNO.
 - CABLE TV OUTLET +18" UNO.
 - MOTION SENSOR
 - EXISTING SWITCH
 - SINGLE POLE SWITCH
 - DOUBLE POLE SWITCH
 - THREE WAY SWITCH
 - SWITCH W/PLOT LT.
 - MANUAL MOTOR STARTER
 - FIRE ALARM CONTROL PANEL
 - GFI
 - LST
 - MLO w/ WITH CONDUIT ONLY
 - C.O.
 - W.P.
 - F.B.O.
 - U.N.O.
 - N.E.C.
 - N.I.C.
 - (E) EXISTING
 - (N) NEW
 - (R) REMOVE
 - (RL) RELOCATE
 - S/M SURFACE MOUNT
 - U/G UNDERGROUND
 - CWP COLD WATER PIPE
 - AFF ABOVE FINISHED FLOOR
 - HACR HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
 - N.L. NIGHT LIGHT
- NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

LED FIXTURE SCHEDULE							
TYPE	MANUFACTURER AND CATALOG NUMBER	LED MODULE			DRIVER	OPTIC/LENS	REMARKS
		TYPE	COLOR TEMP	WATTS			
A 38	LITHONIA 2BIT448LADPGZ10LP840WH		4000K	38	0-10V 10%	DIFFUSE	2X4
B 38	LITHONIA FMLWL48840K		4000K	38	0-10V 10%	DIFFUSE	4 FT WRAP
X 20	LITHONIA WDGE2LEDP340K80CRIVF		4000K	20	0-10V 10%	FLAT CLEAR	WEDGE FULL CUT-OFF SCONCE
E 1	ISOLITE RLP-GUWHMTEB		GREEN	1	NICAD BATTERY	PRISMATIC	EXIT SIGN W/EM LIGHT
EM 6	ISOLITE BUG-6-WH		4000K	6	NICAD BATTERY	PRISMATIC	EM LIGHT

EXISTING ELECTRICAL SERVICES HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS. SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS.



APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- 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 STRUCTURE 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.

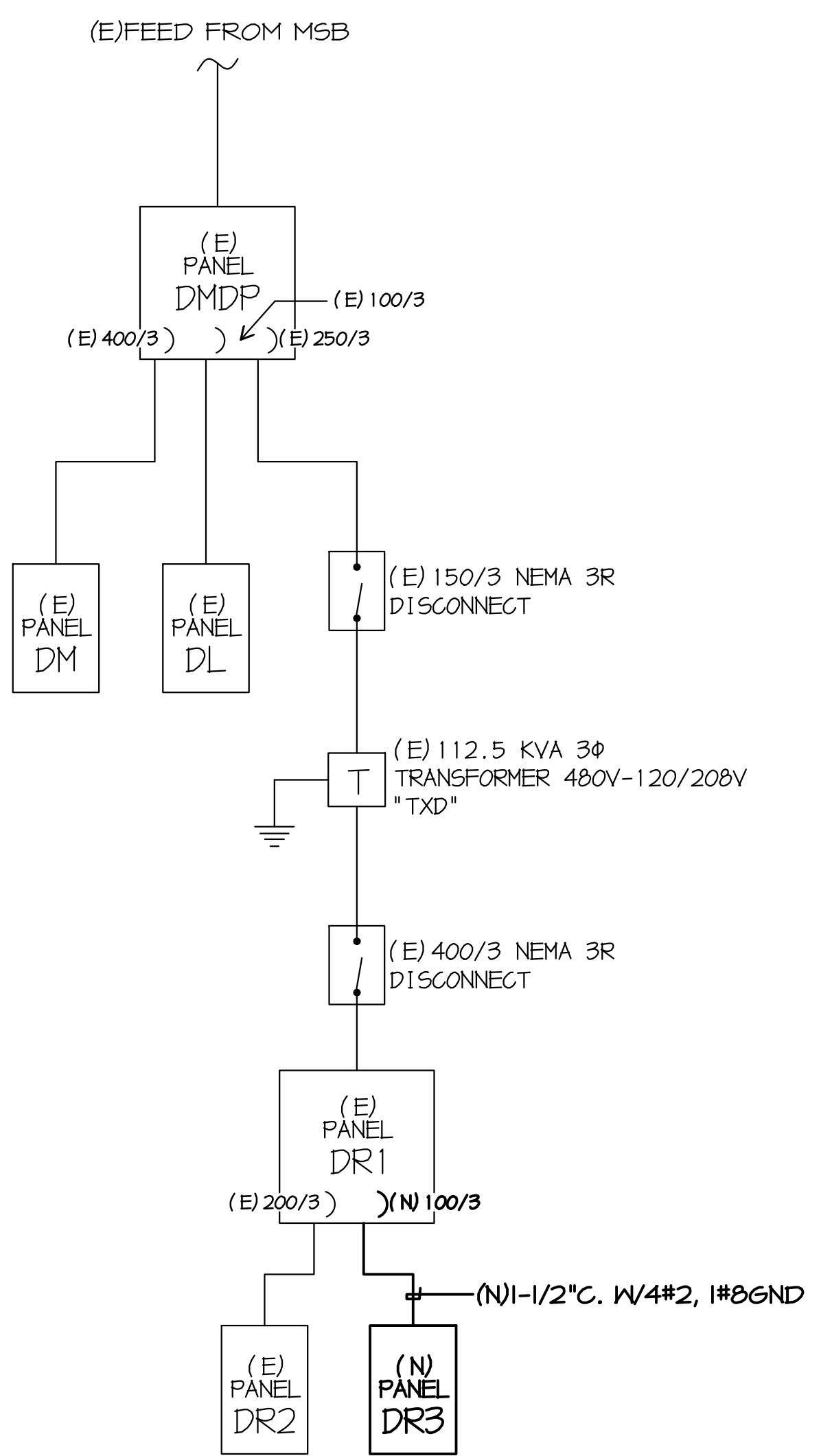
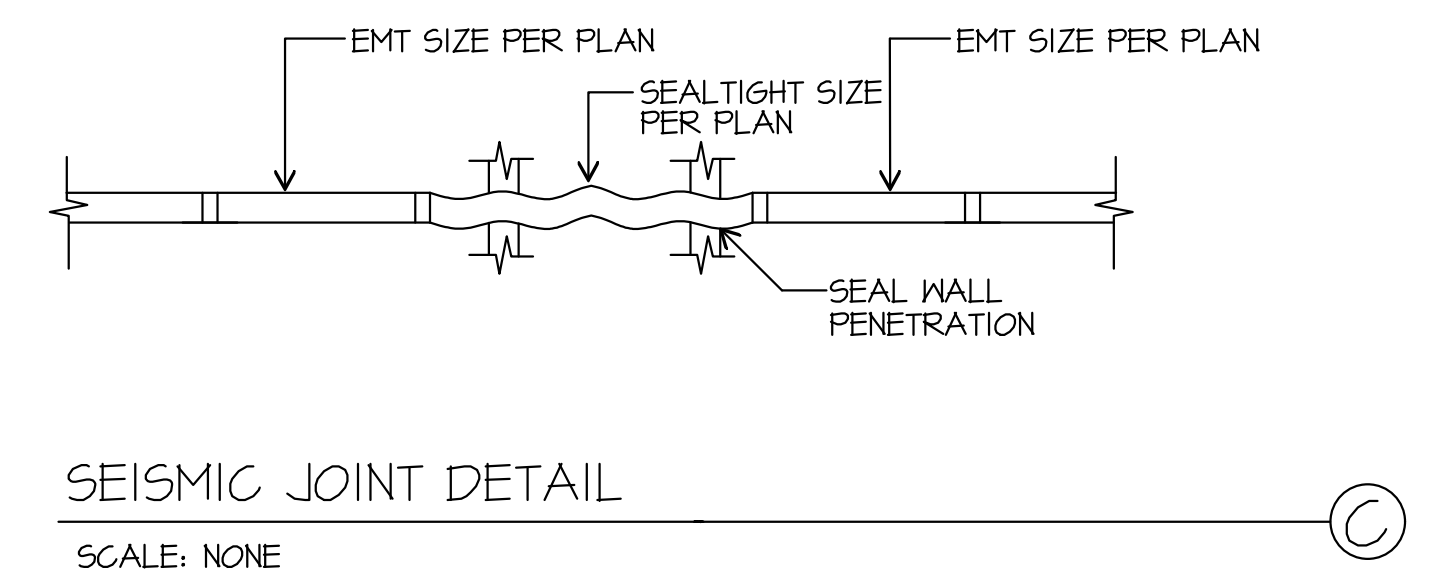
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

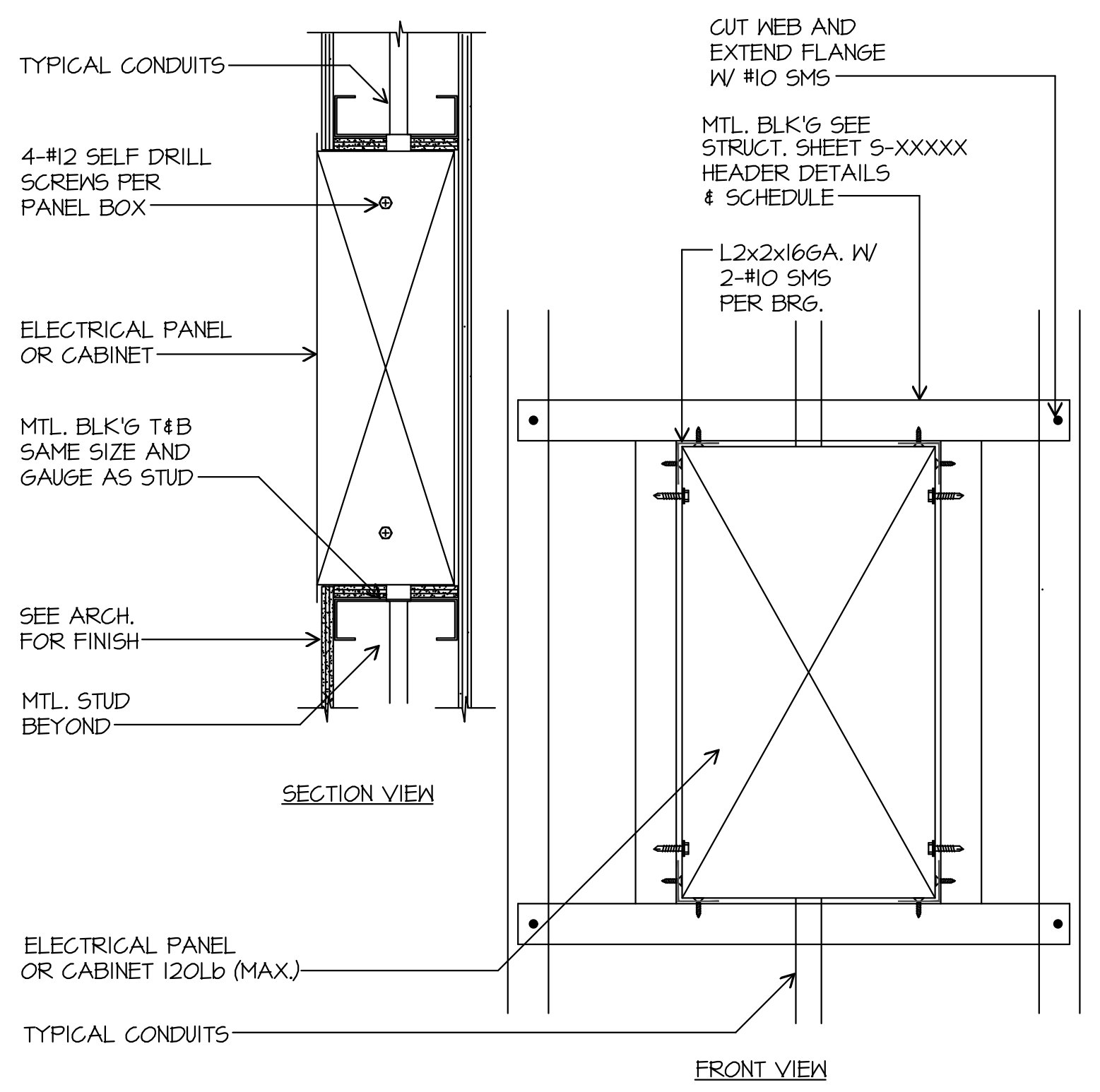
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL 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 HCAI PREAPPROVAL (OPM #) # _____.

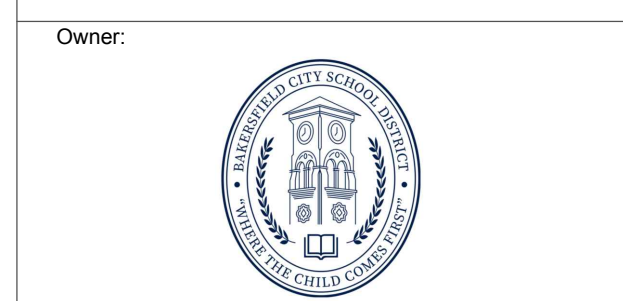


SINGLE LINE DIAGRAM



PANELBOARD MOUNTING DETAIL

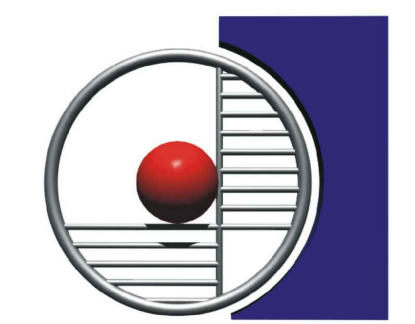
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DATE: 08/05/2024



Owner:
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BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
1100 CITADEL
BAKERSFIELD, CA 93307

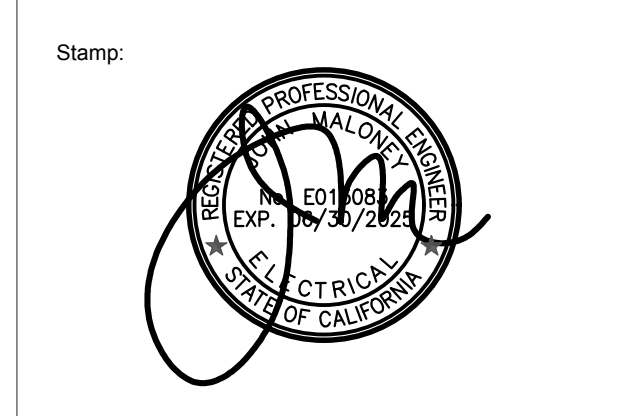


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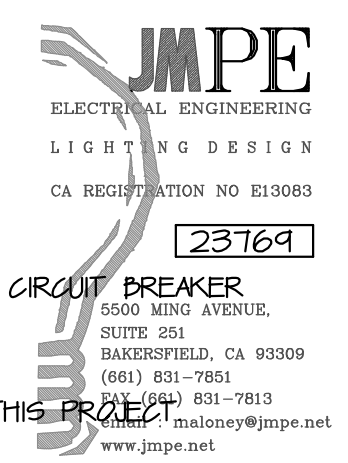


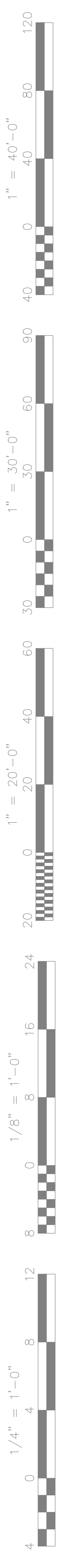
Sheet Title:
GENERAL NOTES AND SYMBOLS

Job No.:
5593

Sheet No.:
E0.01

Release: DSA SUBMITTAL





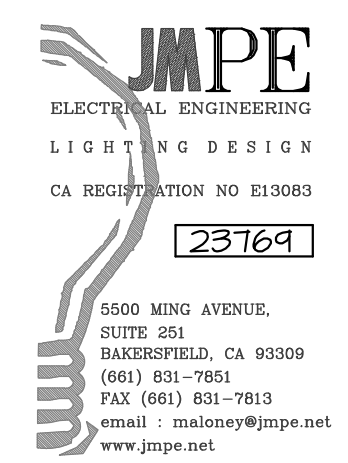
(E) PANEL "DL"															
SERVICE: 277/480V 3Φ 4W				MAIN BKR.: 100A				BUS: 125A				LOC.: SEE PLAN			
GE PANELBOARD												MTG.: SURFACE			
REMARKS	LOAD			R E C	L T G	M I S C	P O L L E	T R I P	C I R C	LOAD			REMARKS		
	ΦA	ΦB	ΦC							ΦA	ΦB	ΦC			
LIGHTS	800								2				LIGHTS		
LIGHTS		800							4				LIGHTS		
LIGHTS			800						6				LIGHTS		
LIGHTS	800								8				LIGHTS		
LIGHTS		800							10				LIGHTS		
LIGHTS			400						12				LIGHTS		
LIGHTS	100								14				LIGHTS		
LIGHTS		60							16				LIGHTS		
LIGHTS			20						18				LIGHTS		
EMERGENCY LIGHTS	100								20				EXTERIOR LIGHTS		
(N) TK RM 1 LIGHTS		855							22				(N) TK RM 2 LIGHTS		
									24						
									26						
									28						
									30						
									32						
									34						
									36						
									38						
									40						
									42						
TOTAL WATTS=	11190	2515	1220						ΦB=4990				ΦC=2140		
AMPS=	13.459								MINIMUM BKR				A.I.C. RATING= 10,000 AMPS SYM		

(E) PANEL "DM"															
SERVICE: 277/480V 3Φ 4W				MAIN BKR.: 400A				BUS: 400A				LOC.: SEE PLAN			
GE PANELBOARD												MTG.: SURFACE			
REMARKS	LOAD			R E C	L T G	M I S C	P O L L E	T R I P	C I R C	LOAD			REMARKS		
	ΦA	ΦB	ΦC							ΦA	ΦB	ΦC			
HP-2	7200								2				HP-2		
"		7200							4				"		
"			7200						6				"		
HP-2	7200								8				HP-2		
"		7200							10				"		
"			7200						12				"		
HP-2	7200								14				HP-2		
"		7200							16				"		
"			7200						18				"		
HP-2	7200								20				HP-2		
"		7200							22				"		
"			7200						24				"		
HP-2	7200								26				HP-2		
"		7200							28				"		
"			7200						30				"		
(N) ITEC HP	7200								32				(N) ITEC HP		
"		7200							34				"		
"			7200						36				"		
									38				"		
									40				"		
									42				"		
TOTAL WATTS=	43200	43200	43200						ΦB=86400				ΦC=86400		
AMPS=	259200	311.769							MINIMUM BKR				A.I.C. RATING= 10,000 AMPS SYM		

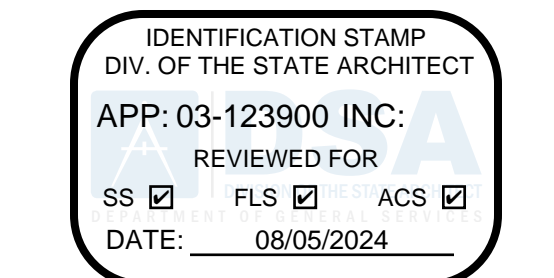
PANEL "DMDP"															
SERVICE: 277/480V 3Φ 4W				MAIN BKR.: 600A				BUS: 600A				LOC.: SEE PLAN			
GE APNB PANELBOARD												MTG.: SURFACE			
REMARKS	LOAD			R E C	L T G	M I S C	P O L L E	T R I P	C I R C	LOAD			REMARKS		
	ΦA	ΦB	ΦC							ΦA	ΦB	ΦC			
PANEL DM	86400								2				SPARE		
"		86400							4				SPARE		
"			86400						6				SPARE		
PANEL DL	4060								8				SPARE		
"		4990							10				SPARE		
"			2140						12				SPARE		
XFMR TXD	16500								14				SPARE		
"		19480							16				SPARE		
"			17480						18				SPARE		
SPARE									20				SPARE		
SPARE									22				SPARE		
SPARE									24				SPARE		
SPARE									26				SPARE		
SPARE									28				SPARE		
SPARE									30				SPARE		
SPARE									32				SPARE		
SPARE									34				SPARE		
SPARE									36				SPARE		
SPARE									38				SPARE		
SPARE									40				SPARE		
SPARE									42				SPARE		
TOTAL WATTS=	106960	110870	106020						ΦB=110870				ΦC=106020		
AMPS=	323850	389.53							MINIMUM BKR				A.I.C. RATING= 10,000 AMPS SYM		

(E) PANEL " DR1 "															
SERVICE: 120/208V 3Φ 4W				MAIN BKR.: 300A				BUS: 400A				LOC.: SEE PLAN			
GE PANELBOARD												MTG.: SURFACE			
REMARKS	LOAD			R E C	L T G	M I S C	P O L L E	T R I P	C I R C	LOAD			REMARKS		
	ΦA	ΦB	ΦC							ΦA	ΦB	ΦC			
ROOM 1 REC	200								2				ROOM 1 REC		
ROOM 1 REC		600							4				ROOM 1 REC		
ROOM 1 REC			600						6				ROOM 2 REC		
ROOM 2 REC	400								8				ROOM 2 REC		
ROOM 2 REC		600							10				ROOM 2 REC		
ROOM 3 REC			200						12				ROOM 3 REC		
ROOM 3 REC	600								14				ROOM 3 REC		
ROOM 3 REC		600							16				ROOM 4 REC		
ROOM 4 REC			400						18				ROOM 4 REC		
ROOM 4 REC	600								20				ROOM 4 REC		
ROOM 5 REC		200							22				ROOM 5 REC		
ROOM 5 REC			600						24				ROOM 5 REC		
ROOM 5 REC	600								26				HAND DRYER		
HAND DRYER		1500							28				HAND DRYER		
HAND DRYER			1500						30				RR 8 REC		
SPARE									32				GFI/WP REC		
SPARE									34				WH-1		
SPARE									36				"		
PANEL DR2	5200								38				(N) DR-3		
"		7700							40				"		
"			5100						42				"		
TOTAL WATTS=	53460	11200	8400						ΦB=19480				ΦC=17480		
AMPS=	148.39								MINIMUM BKR				A.I.C. RATING= 10,000 AMPS SYM		

(N) PANEL " DR3 "															
SERVICE: 120/208V 3Φ 4W				MAIN BKR.: 100A				BUS: 100A				LOC.: SEE PLAN			
PANELBOARD												MTG.: SURFACE			
REMARKS	LOAD			R E C	L T G	M I S C	P O L L E	T R I P	C I R C	LOAD			REMARKS		
	ΦA	ΦB	ΦC							ΦA	ΦB	ΦC			
TK RM 1 REC	720								2				SPARE		
TK RM 1 REC		720							4				SPARE		
TK RR REC			720						6				WATER HEATER		
TK HALL REC	360								8				"		
TK WORK RM REC		540							10				HVAC REPEATER		
TK STORAGE RM REC			360						12				AIR IONIZER		
TK RM 2 REC	720								14				AIR IONIZER		
TK RM 2 REC		720							16				"		
									18				"		
									20				"		
									22				"		
									24				"		
									26				"		
									28				"		
									30				"		
									32				"		
									34				"		
									36				"		
									38				"		
									40				"		
									42				"		
TOTAL WATTS=	1800	1980	1080						ΦB=1980				ΦC=4260		
AMPS=	26.991								MINIMUM BKR				A.I.C. RATING= 10,000 AMPS SYM		



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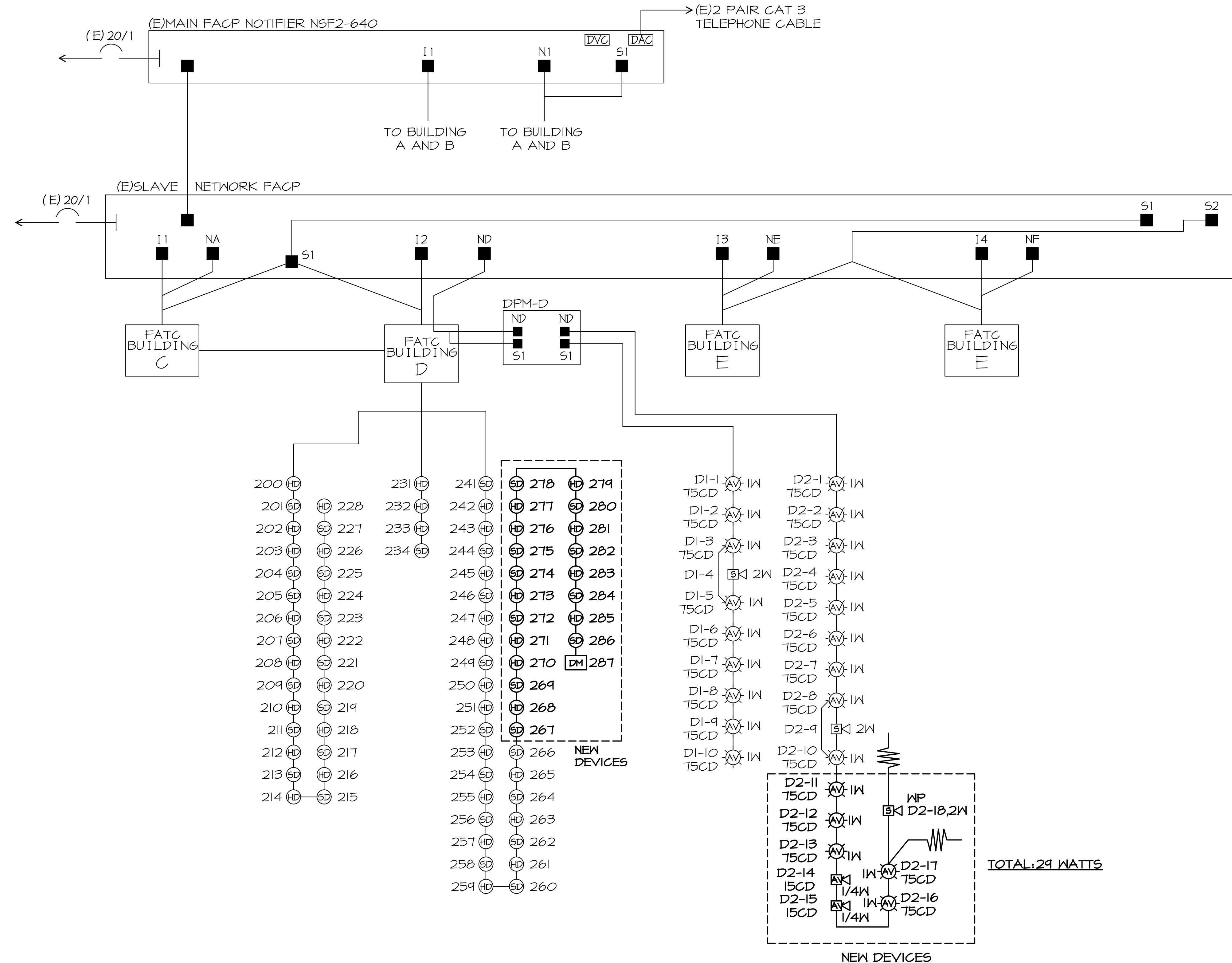
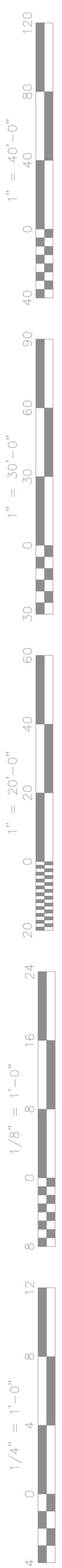
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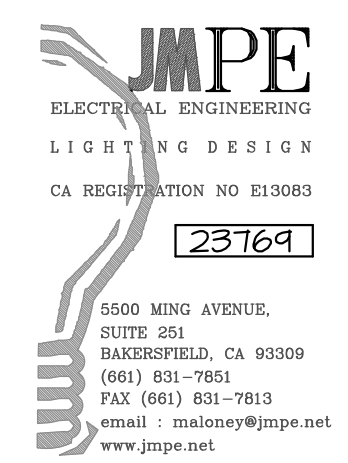


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PANEL SCHEDULES
Job No.: **5593**
Sheet No.: **E0.02**
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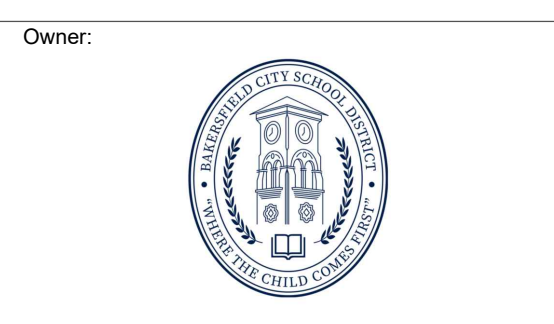


FIRE ALARM RISER PLAN

SCALE: NONE



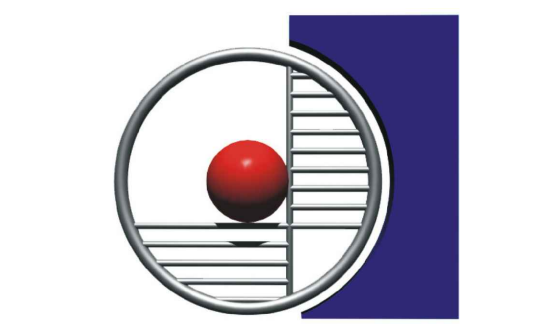
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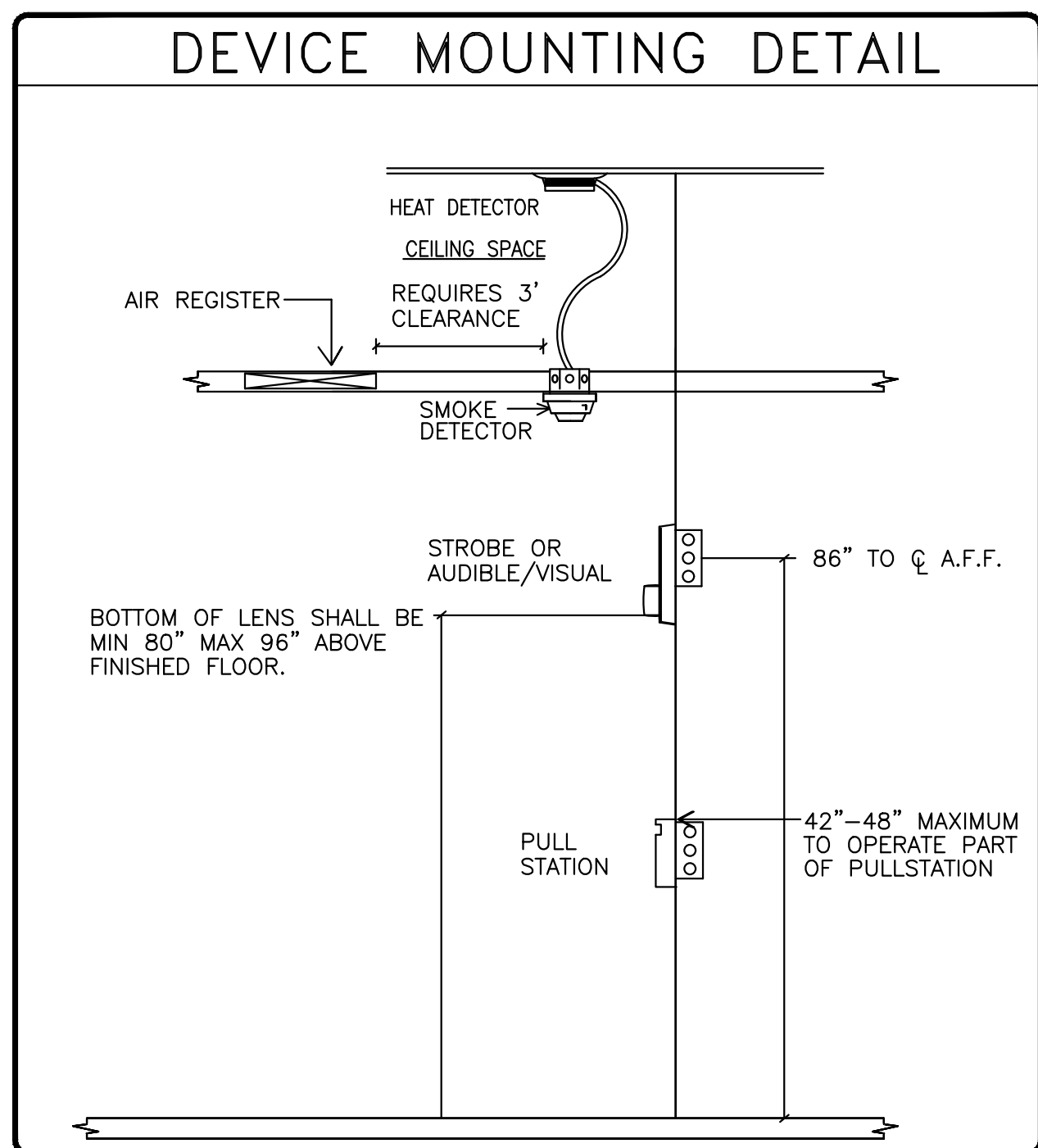
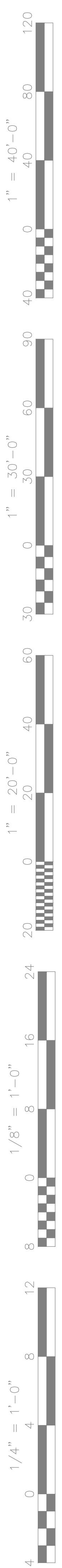


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FIRE ALARM RISER

Job No.:
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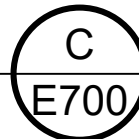
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FIRE ALARM MOUNTING DETAIL

SCALE: NONE



FIRE LIFE SAFETY NOTES

- CBC 3401.12 - BUILDING AND PARTS OF THEREOF SHALL BE MAINTAINED IN A SAFE AND SANITARY CONDITION. DEVICES OR SAFEGUARDS WHICH ARE REQUIRED BY THIS CODE SHALL BE MAINTAINED IN CONFORMANCE WITH THE CODE EDITION UNDER WHICH INSTALLED. THE OWNER OR THE OWNERS DESIGNATED AGENT SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF BUILDING.
- CFC 503.1; TITLE 19 DIVISION 1 § 3.05 MAINTAIN FIRE ACCESS ROUTE(S). PUBLIC STREET ACCESS - PROVIDE SIGN(S) NO PARKING FIRE LANE WITH CALIFORNIA VEHICLE CODE 22500.1' AND DETAIL. (OR INCLUDE NOTE - EXISTING NO PARKING FIRE LANE SIGN TO BE FIELD VERIFIED BY IOR)
- CFC 503.1 - MAINTAIN / PROVIDE KEY BOXES FOR FIRE DEPARTMENT ACCESS, AS APPROPRIATE.
- CFC 701.2 - WHERE ANY COMPONENTS IN THIS CHAPTER ARE NOT MAINTAINED AND DO NOT FUNCTION AS INTENDED OR DO NOT HAVE THE FIRE RESISTANCE REQUIRED BY THE CODE UNDER WHICH THE BUILDING WAS CONSTRUCTED, REMODELED OR ALTERED, SUCH COMPONENT(S) OR PORTIONS THEREOF SHALL BE DEEMED AN UNSAFE CONDITION, IN ACCORDANCE WITH SECTION 110.1.1. COMPONENTS OR PORTIONS THEREOF DETERMINED TO BE UNSAFE SHALL BE REPAIRED OR REPLACED TO CONFORM TO THAT CODE UNDER WHICH THE BUILDING WAS CONSTRUCTED, REMODELED, ALTERED OR THIS CHAPTER, AS DEEMED APPROPRIATE BY THE FIRE CODE OFFICIAL.
- CFC 703.1 AND TITLE 19 DIVISION 1 § 1.14 - THE REQUIRED FIRE-RESISTANCE RATING OF FIRE-RESISTANCE CONSTRUCTION (INCLUDING WALLS, FIRESTOPS, SHAFT ENCLOSURES, PARTITIONS, SMOKE-BARRIERS, FLOORS, FIRE-RESISTIVE COATINGS AND SPRAYED FIRE-RESISTANT MATERIALS APPLIED TO STRUCTURAL MEMBERS AND FIRE-RESISTANT JOINTS SYSTEMS) SHALL BE MAINTAINED. SUCH ELEMENTS SHALL BE VISUALLY INSPECTED BY THE OWNER AND PROPERLY REPAIRED, RESTORED OR REPLACED WHEN DAMAGED, ALTERED, BREACHED OR PENETRATED. OPENINGS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROTECTED BY SELF- OR AUTOMATIC-CLOSING DOORS OF APPROVED CONSTRUCTION MEETING THE FIRE PROTECTION REQUIREMENTS FOR THE ASSEMBLY.
- CFC 703.2 - OPENING PROTECTIVE SHALL BE MAINTAINED IN AN OPERATIVE CONDITION IN ACCORDANCE WITH NFPA 80. FIRE DOORS AND SMOKE BARRIER DOORS SHALL NOT BE BLOCKED OR OBSTRUCTED OR OTHERWISE BE MADE INOPERABLE. FUSIBLE LINKS SHALL BE REPLACED PROMPTLY WHENEVER FUSED OR DAMAGED. FIRE ASSEMBLIES SHALL NOT BE MODIFIED.
- CFC 901.4; 907.8.5 AND TITLE 19 DIVISION 1 § 1.14 - INSTALLATION FIRE PROTECTION SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH ORIGINAL INSTALLATION STANDARDS FOR THAT SYSTEM. REQUIRED SYSTEMS SHALL BE EXTENDED, ALTERED OR AUGMENTED AS NECESSARY TO MAINTAIN AND CONTINUE PROTECTION WHENEVER THE BUILDING IS ALTERED, REMODELED OR ADDED TO. ALTERATIONS TO FIRE PROTECTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH APPLICABLE STANDARDS.
- TITLE 19 DIVISION 1 § 1.14 - EVERY FIRE ALARM SYSTEM OR DEVICE, SPRINKLER SYSTEM, FIRE EXTINGUISHER, FIRE HOSE, FIRE-RESISTIVE ASSEMBLY OR ANY OTHER FIRE SAFETY ASSEMBLY, DEVICE MATERIAL OR EQUIPMENT INSTALLED AND RETAINED IN SERVICE IN ANY BUILDING OR STRUCTURE SUBJECT TO CALIFORNIA CODE OF REGULATIONS, TITLE 19 DIVISION 1 REGULATIONS SHALL BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 19 DIVISION 1 REGULATIONS AND WITH THEIR INTENDED USE.
- TITLE 19 DIVISION 1 § 3.24 - UPON DISRUPTION OF DIMINISHMENT OF THE FIRE PROTECTIVE QUALITIES OF SUCH EQUIPMENT, MATERIAL OR SYSTEMS IMMEDIATE ACTION SHALL BE INSTITUTED TO EFFECT A REESTABLISHMENT OF SUCH EQUIPMENT MATERIAL OR SYSTEMS TO THEIR ORIGINAL NORMAL OPERATIONAL CONDITION.
- CFC 901.5.1 - IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE REQUIRED FIRE DETECTION, ALARM SYSTEM HAS BEEN TESTED AND APPROVED.
- CFC 901.5.1 - IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE REQUIRED FIRE DETECTION, ALARM SYSTEM HAS BEEN TESTED AND APPROVED.
- FIRE ALARM SCOPE REQUIRES DSA APPROVED DRAWINGS FOR REFERENCE OF AREAS IN SCOPE INCLUDE COMPLIANT FIRE ALARM COMPONENTS (SMOKE-HEAT-AUDIBLE-VISUAL-MANUAL). (STATEMENT OF COMPLIANCE PER CFC 901.2.1; 901.6.2.1 & TITLE 19 DIVISION 1 § 904.1(b) 904.2(c) RECORD AS-BUILT DRAWINGS AND TEST REPORTS.) ROOMS / AREAS IN SCOPE TO INCLUDE EXISTING FIRE ALARM COMPONENTS.
- CFC 1030.1 - THE MEANS OF EGRESS FOR BUILDING OR PORTIONS THEREOF SHALL BE MAINTAINED IN ACCORDANCE WITH THIS SECTION.
- CFC 1030.4 - EXIT SIGNS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 1011.
- CFC CHAPTER 11, PROVISIONS APPLICABLE TO EXISTING BUILDING.
- CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION APPLICABLE PROVISIONS TO BE REPLICATED VERBATIM - SAMPLE SECTIONS - 3304 PRECAUTIONS AGAINST FIRE; 3304.2 WASTE DISPOSAL; 3304.5 FIRE WATCH; 3304.6 CUTTING AND WELDING; 3305 FLAMMABLE AND COMBUSTIBLE LIQUIDS; 3308 OWNERS RESPONSIBILITY; 3310 ACCESS FOR FIREFIGHTING; 3311 MEANS OF EGRESS; 3315 FIRE EXTINGUISHERS.

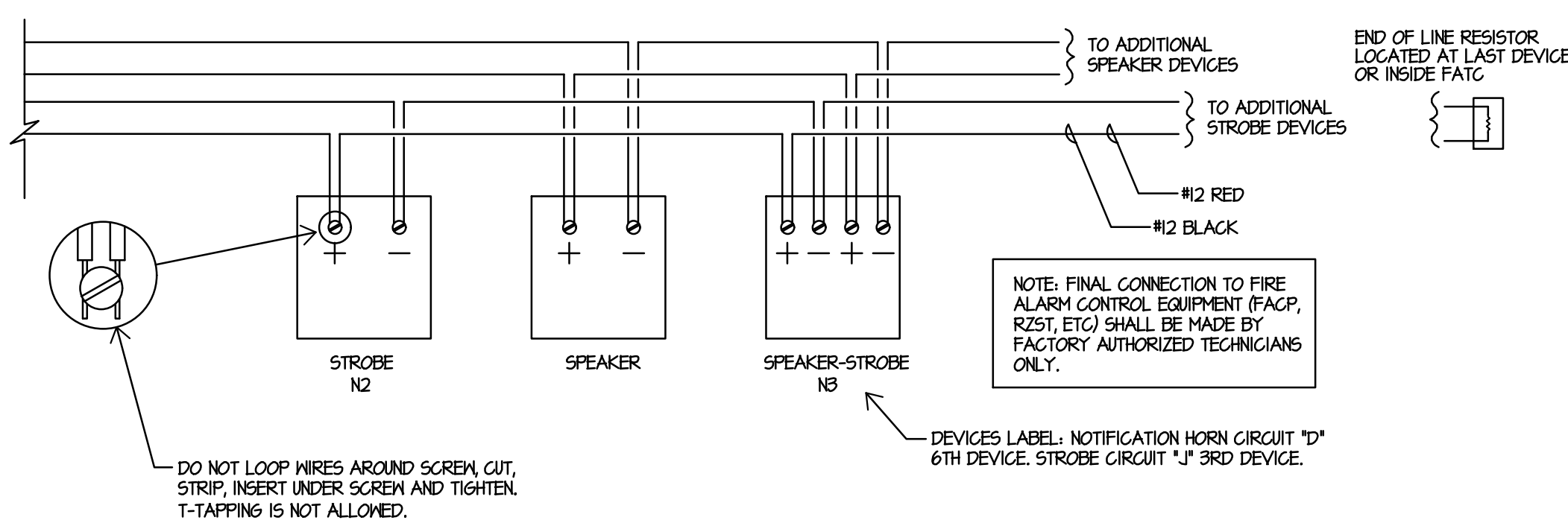
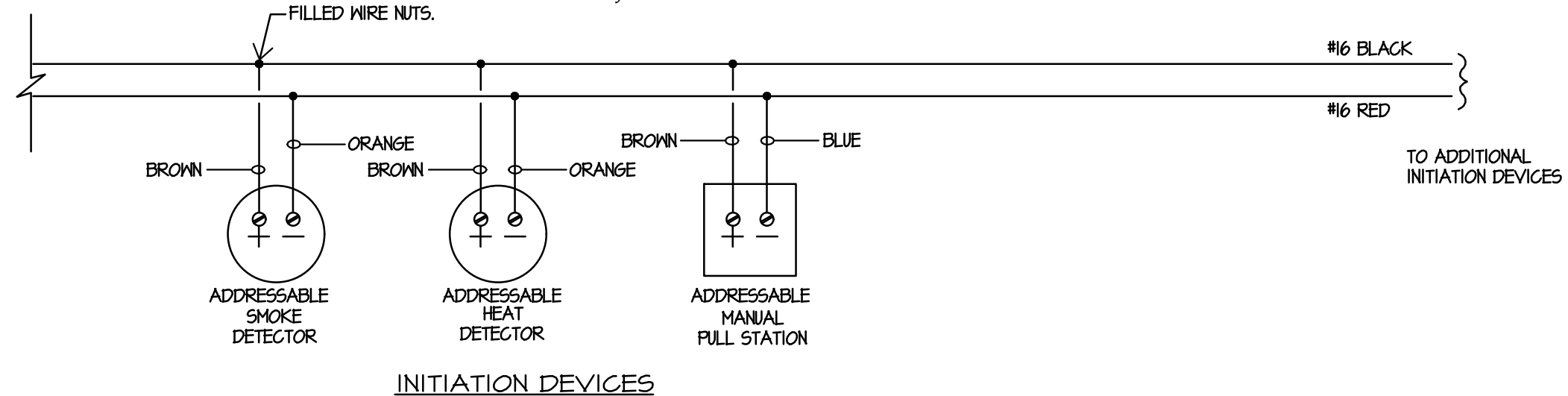
FIRE ALARM SYSTEM REQUIREMENTS

- APPLICABLE STANDARD 2022 NFPA 72
- 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 THE INSTALLATION OF THE SYSTEMS, 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 /OR 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 LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
- WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS TO BE BETWEEN 80" AND 90" 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 THEN 6" TO A HORIZONTAL STRUCTURE.
- AUDIBLE DEVICES TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110 DBA AT THE MINIM HEARING DISTANCE . SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECTIONS 5 DBA MUST BE MAINTAINED.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THIN OR THWN.
- PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6' OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
- SMOKE DETECTORS SHALL NOT BE ANY 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 IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- 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 ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
- THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, REQUIREMENTS.
- CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" 23) THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.3
- 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.
- A DSA CLASS 3 INSPECTOR SHALL BE HIRED BY THE DISTRICT AND APPROVED BY DSA TO INSPECT THIS PROJECT.

APPLICABLE CODE REQUIREMENTS

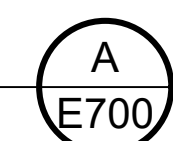
PERFORMANCE OF THE WORK OF THIS CONTRACT SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE GOVERNING CODES AND ORDINANCES INCLUDING THE FOLLOWING:

- 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. (2021 IBC, VOLUMES 1-3 WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R. (2020 N.E.C. WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R (2021 U.M.C. WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. (2021 U.P.C. WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 I.F.C. WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- NFPA 13 AUTOMATIC SPRINKLER SYSTEM -----2022 EDITION
- NFPA 14 STANDPIPE SYSTEM -----2019 EDITION
- NFPA 17A WET CHEMICAL SYSTEM -----2021 EDITION
- NFPA 24 PRIVATE SERVICE MAINS -----2022 EDITION
- NFPA 72 NATIONAL FIRE ALARM CODE -----2022 EDITION (NOTE SEE UL STANDARDS 1971 FOR ("VISUAL DEVICES"))



FIRE ALARM DEVICES TYPICAL MOUNTING DETAIL

SCALE: NONE



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123900 INC:
REVIEWED FOR
SS FLS ACS
DATE: 08/05/2024

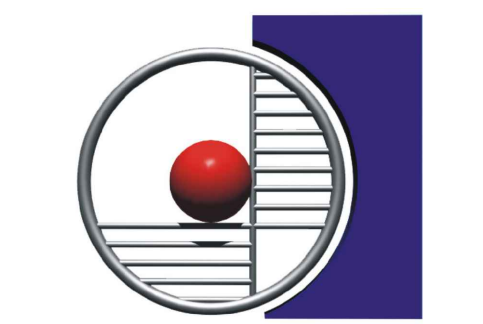


BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST.
BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL

1100 CITADEL
BAKERSFIELD, CA 93307

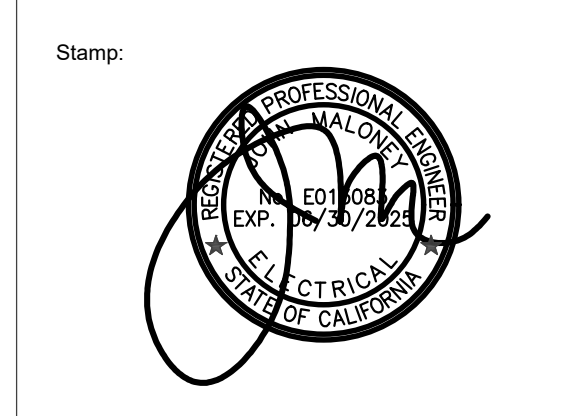


integrated designs
by SOMAM, Inc.

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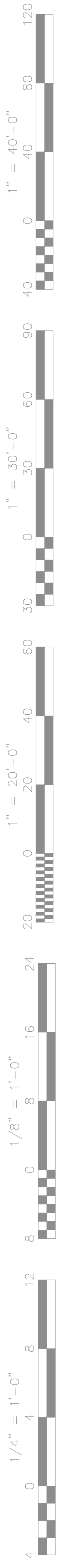
Sheet Title:
FIRE ALARM NOTES

Job No.: **5593**

Sheet No.: **E0.04**

Release: DSA SUBMITTAL

JMPE
ELECTRICAL ENGINEERING LIGHTING DESIGN
CA REGISTRATION NO E15083
23169
5500 KING AVENUE, SUITE 350
BAKERSFIELD, CA 93309
(805) 831-7861
FAX (805) 831-7813
email: m@joney@jmpe.net
www.jmpe.net



EXISTING SLAVE FACP BATTERY CALCULATION MFACP

EQUIPMENT DESCRIPTION	QUANTITY		SUPERVISORY CURRENT (AMPERES)		ALARM CURRENT (AMPERES)	
	EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
FIRE ALARM PANEL	1	0	0.12	0.12	9	9
SMOKE DETECTOR	118	10	0.0003	0.0384	0.0065	0.832
HEAT DETECTOR	120	10	0.0003	0.039	0.0065	0.845
MODULE	4	0	0.0003	0.0012	0.0065	0.026
SUB TOTAL AMPERES			0.1986 AMPS		9.9425 AMPS	
SUB TOTAL AMPERE-HOURS			x 24 HOURS		X 0.25 HOURS	
			4.7664	A.H.	2.485625	A.H.
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE					7.252025	A.H.
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR					x 1.2	
TOTAL MINIMUM AMPERE HOURS REQUIRED					8.70243	A.H.
PROVIDED BATTERY CAPACITY					24.00	A.H.

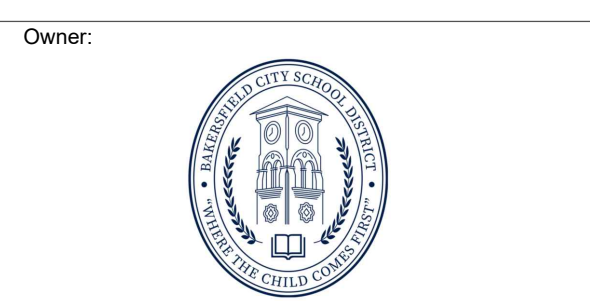
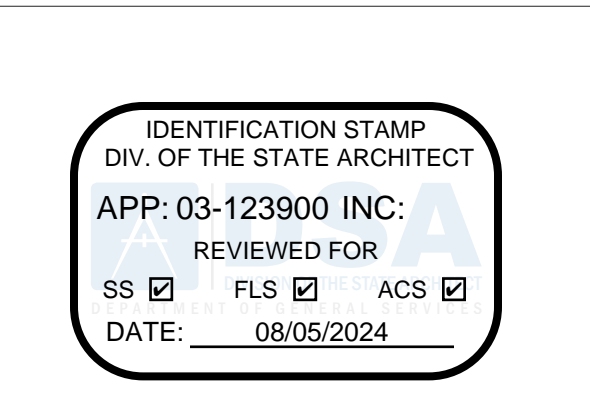
EXISTING DPM-D BATTERY CALCULATION

EQUIPMENT DESCRIPTION	QUANTITY		SUPERVISORY CURRENT (AMPERES)		ALARM CURRENT (AMPERES)	
	EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
UNIT	1	0	0.075	0.075	0.175	0.175
OUTDOOR 2W SPEAKER	2	1	0	0	0.175	0.525
1/4 W SPEAKERS	20	0	0	0	0.035	0.7
75CD VISUAL	0	0	0	0	0.05	0
15CD AV	4	2	0	0	0.025	0.15
30CD AV	0	0	0	0	0.066	0
75CD AV	18	5	0	0	0.094	2.162
110CD AV	0	0	0	0	0.158	0
SYNC MODULE			0		0.35	
SUB TOTAL AMPERES			0.075 AMPS		4.412 AMPS	
SUB TOTAL AMPERE-HOURS			x 24 HOURS		X 0.25 HOURS	
			1.8	A.H.	1.103	A.H.
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE					2.903	A.H.
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR					x 1.2	
TOTAL MINIMUM AMPERE HOURS REQUIRED					3.4836	A.H.
PROVIDED BATTERY CAPACITY					12.00	A.H.

FIRE ALARM SYMBOL LIST MATRIX					
SYMBOL	DEVICE	MFR & CAT#	REMARKS	CSFM LISTING	
(E)	█	MAIN FIRE ALARM PANEL	NOTIFIER NFS2-640	EXISTING	7165-0028:0243
(E)	DPM	ADDRESSABLE DISTRIBUTED POWER MODULE	NOTIFIER ACP5-210	EXISTING	7315-0028:0243
(E)	DVC	DIGITAL VOICE COMMAND	NOTIFIER DVM EM	EXISTING	7165-0028:0224
(E)	DAA-5025	DIGITAL AUDIO AMPLIFIER	NOTIFIER DAA-5025	PART OF DVC	7165-0028:0224
(E)	DAC	FIRE ALARM COMMUNICATOR	NOTIFIER 411UDACT	EXISTING	7300-0075:0174
(E)	SD	SMOKE DETECTOR	NOTIFIER FSP-851	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7272-0028:0206
(N)	HD	HEAT DETECTOR (IN ATTIC SPACE)	NOTIFIER FST-851H	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7270-0028:0196
(E)	DM	DUAL MONITOR MODULE	NOTIFIER FDM-1(A)	4"SQ. DEEP EXTENSION & DBL GANG	7300-0028:0219
(N)	AV	SPEAKER STROBE	SYSTEM SENSOR SPSCR AV CM	PROVIDE DEEP SQ. J-BOX	7320-1653:0201
(N)	V	SPEAKER STROBE	SYSTEM SENSOR SCWLA	PROVIDE DEEP SQ. J-BOX	7320-1653:0505
(E)	WP	EXTERIOR SPEAKER	SYSTEM SENSOR SPRK	PROVIDE MWBB BACKBOX	7320-1653:0201
		FPLR CABLE	WESTPENN 975	18/2 BARE, CU, SHIELDED	7161-0859:0101
		FPLR CABLE	WESTPENN 998	12/2 SOLID, CU, UNSHIELDED	7161-0859:0101
		FPLR CABLE	WESTPENN AQ294	16/2 STRANDED, CU, SHIELDED W/ AQUASEAL	7161-0859:0101
		FPLR CABLE	WESTPENN AQ294	16/2 STRANDED, CU, SHIELDED W/ AQUASEAL	7161-0859:0101

FIRE ALARM SEQUENCE OF OPERATION													
INPUT & OUTPUT MATRIX	SYSTEM INPUTS												
	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	FIRE ALARM SYSTEM AC POWER FAILURE	FIRE ALARM SYSTEM LOW BATTERY	OPEN CIRCUIT	GROUND FAULT	NOTIFICATION APPLIANCE CIRCUIT SHORT	TAMPER SWITCH	FLOW SWITCH	SPRINKLER LOW	DDCV TAMPER SWITCH	DDCV FLOW SWITCH	
Control Unit Annunciation	ACTIVATE COMMON ALARM SIGNAL INDICATOR (RED LED)	•	•										
	ACTIVATE AUDIBLE ALARM SIGNAL (PIEZO BUZZER)	•	•										
	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR (AMBER LED)												
	ACTIVATE AUDIBLE SUPERVISORY SIGNAL (PIEZO BUZZER)												
	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR (AMBER LED)			•	•	•	•	•	•	•		•	
Notification	ACTIVATE AUDIBLE COMMON TROUBLE SIGNAL (PIEZO BUZZER)			•	•	•	•	•	•		•		
	ACTIVATE EVACUATION SIGNAL THROUGHOUT THE BUILDING SPEAKERS & SPEAKER/STROBES	•	•								•	•	•
	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	•	•								•	•	•
Supplementary	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION												
	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION			•	•	•	•	•	•		•		
	ELEVATOR RECALL												
	ELEVATOR SHUTDOWN												
	HVAC SHUTDOWN									•	•	•	
	ELEVATOR SHAFT												

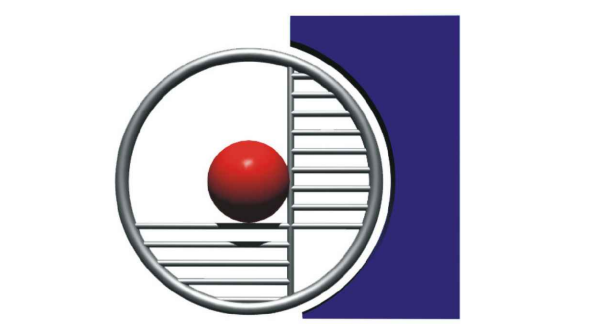
CENTRAL STATION MONITORING
 COMPANY NAME: KIMBERLITE CORP. DBA SONITROL
 ADDRESS: 6321 W. BEECHWOOD AVE, FRESNO, CA 93711
 PHONE: (661)324-6448
 LICENSE NUMBER: # ACO-2599
 U.L. LISTING CERT: WFX #58535-1



BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER ST.
 BAKERSFIELD CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
 1100 CITADEL BAKERSFIELD, CA 93307



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ARCHITECTURE ENGINEERING INTERIOR DESIGN

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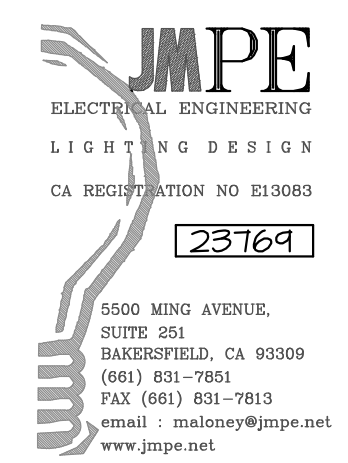


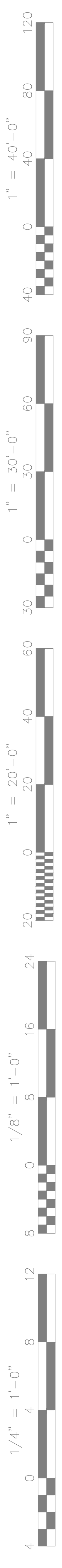
Sheet Title:
FIRE ALARM CALCS AND MATRICES

Job No.:
5593

Sheet No.:
E0.05

Release: DSA SUBMITTAL





STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: MLK ELEMENTARY SCHOOL TK
Report Page: (Page 1 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

A. GENERAL INFORMATION

01 Project Location (city)	BAKERSFIELD	04 Total Conditioned Floor Area (ft²)	2,530
02 Climate Zone	13	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):	06 # of Stories (Habitable Above Grade) 0		

• Classroom

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4) for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces		
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input checked="" type="checkbox"/> New Lighting System	Area Category Method	2530	N/A	0
<input type="checkbox"/> New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)		2530		

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 166057-1223-0002
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STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

Indoor Lighting
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Project Name: MLK ELEMENTARY SCHOOL TK
Report Page: (Page 4 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls	01	02	03
Mandatory Demand Response 130.12(c)		Shut-off controls 130.1(c) / 160.5(b)(4)C	Field Inspector
NA < 4,000W subject to multilevel		See Area/Space Level Controls	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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Report Page: (Page 7 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title: Systems/Spaces to be Filled

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

CLASSROOM; LOUNGE; I.T. CLOSET; HALLWAY; RESTROOM

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b) / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)		Compliance Results
	01	02	03	04	05	06	07	
Complete Building: 140.6(c)1	Area Category: 140.6(c)2 / 170.2(e)4	Area Category Additional: 140.6(c)2G / 170.2(e)4Av (+)	Tailored: 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments: PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)
(See Table I)	(See Table I)	(See Table I)	(See Table K)	= 1,464.55	≥ 770	(See Table P)	= 770	COMPLIES
Conditioned								COMPLIES
Unconditioned								COMPLIES

Controls Compliance (See Table H for Details) COMPLIES
Rate Power Reduction Compliance (See Table Q for Details) COMPLIES

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

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

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Report Version: 2022.0.000
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STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: MLK ELEMENTARY SCHOOL TK
Report Page: (Page 5 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Area Description	05	06	07	08	09	10	11	12
LOUNGE	Lounge	0.55	213	117.15	No	No		
I.T. CLOSET	Electrical Mechanical Telephone Room	0.4	156	62.4	No	No		
HALLWAY	Corridor	0.4	93	37.2	No	No		
RESTROOM	Restroom	0.65	140	91	No	No		
TOTALS:			2,530	1,464.55				See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

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Project Name: MLK ELEMENTARY SCHOOL TK
Report Page: (Page 8 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

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

Documentation Author Name: John Maloney
Signature Date: 12-14-2023
Address: 627 OLIVE STREET
City/State/Zip: SANTA BARBARA, CA 93101
Phone: (805)664-4216

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following 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 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.
- 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 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: JOHN MALONEY
Signature Date: 12-14-2023
Address: 627 OLIVE STREET
City/State/Zip: SANTA BARBARA, CA 93101
Phone: (805)664-4216

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 166057-1223-0002
Report Generated: 2023-12-19 10:16:15

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: MLK ELEMENTARY SCHOOL TK
Report Page: (Page 3 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces	01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change!	Watts per luminaire*	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
A	2X4 LED	No	NA	30	Mfr. Spec	24	No	720	Pass <input type="checkbox"/> Fail <input type="checkbox"/>	
B	2X6	No	NA	25	Mfr. Spec	2	No	50	Pass <input type="checkbox"/> Fail <input type="checkbox"/>	
Total Designed Watts: CONDITIONED SPACES									770	

*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 166057-1223-0002
Report Generated: 2023-12-19 10:16:15

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: MLK ELEMENTARY SCHOOL TK
Report Page: (Page 6 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title: NRCL-LTI-E - Must be submitted for all buildings

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 166057-1223-0002
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STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION

Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: MLK ELEMENTARY SCHOOL TK
Report Page: (Page 8 of 8)
Date Prepared: 2023-12-19T13:16:12-05:00

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

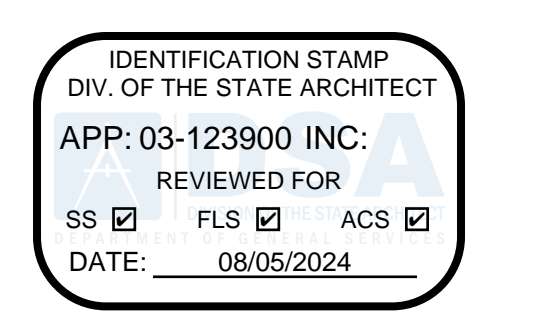
Documentation Author Name: John Maloney
Signature Date: 12-14-2023
Address: 627 OLIVE STREET
City/State/Zip: SANTA BARBARA, CA 93101
Phone: (805)664-4216

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following 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 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.
- 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 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: JOHN MALONEY
Signature Date: 12-14-2023
Address: 627 OLIVE STREET
City/State/Zip: SANTA BARBARA, CA 93101
Phone: (805)664-4216

Generated Date/Time: Documentation Software: Energy Code Ace
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BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST.
BAKERSFIELD CA 93305

TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL
1100 CITADEL BAKERSFIELD, CA 93307



integrated designs
by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
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P:(559) 436-0881 F:(559) 436-0887
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integrateddesigns.com

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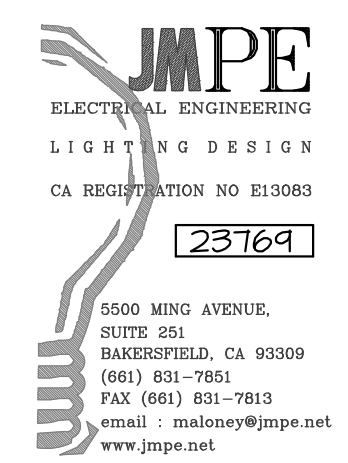


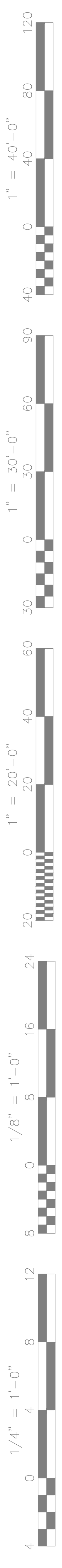
Sheet Title:
INDOOR TITLE 24 FORMS

Job No.:
5593

Sheet No.:
E0.06

Release: DSA SUBMITTAL





STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 1 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 1 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

A. GENERAL INFORMATION

01 Project Location (city)	BAKERSFIELD	04 Total Illuminated Hardscape Area (ft ²)	1685
02 Climate Zone	13		
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 type="checkbox"/> LZ-2: Moderate - Urban Clusters <input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval			
<input type="checkbox"/> LZ-1: Low - Rural Areas <input checked="" type="checkbox"/> LZ-3: Moderately High - Urban Areas			
05 Occupancy Types within Project			
• Classroom			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?
03	04
% of Existing Luminaires Being Altered ¹	Sum Total of Luminaires Being Added or Altered
05	06
Calculation Method	

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

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 4 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 4 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (i.e. 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.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector
WALKWAY: "X"	Astronomical Timer	Provided	NA: Facade, etc. <= 24 ft	Pass Fail

¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

² Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.

³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 7 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 7 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: John Maloney
Signature Date: 12-14-2023
City/State/Zip: SANTA BARBARA, CA 93101
Phone: (805)564-9216

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following 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 5 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- I am eligible under Division 5 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance to the requirements of Title 24, Part 1 and Part 2 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 completed signed copy of this Certificate of Compliance that is 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: JOHN MALONEY
Signature Date: 12-14-2023
City/State/Zip: SANTA BARBARA, CA 93101
Phone: (805)564-9216

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 166057-1223-0003 Schema Version: rev 20220101 Report Generated: 2023-12-19 10:23:40

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 2 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 2 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: if any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv											
01	02	03	04	05	06	07	08	09			
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	Sales Frontage 140.7(d)2 (See Table K)	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08		
382.59	+	---	+	---	OR	---	=	382.59	>=	210	COMPLIES
Shielding Compliance (See Table G for Details)											
Controls Compliance (See Table H for Details)											

N/A COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 166057-1223-0003 Schema Version: rev 20220101 Report Generated: 2023-12-19 10:23:40

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 5 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 5 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/170.2-A while "Use it or lose it" allowances are per Table 140.7-B / 170.2-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. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

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

02									
Area Description									
Illuminated Area (ft ²)									
Allowed Density (W/ft ²)									
Area Allowance (Watts)									
Perimeter Length (ft)									
Allowed Density (W/ft)									
Linear Allowance (Watts)									
Total General AWA + LWA (Watts)									
Initial Wattage Allowance for Entire Site (Watts):									
Instances of Initial Wattage Allowance (L2-D only):									
Total General Hardscape Allowance (Watts):									

Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 166057-1223-0003 Schema Version: rev 20220101 Report Generated: 2023-12-19 10:23:40

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 6 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 6 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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.

Form/Title

NRCL-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/tile24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTO-Q2-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

WALKWAY: "X"

Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 166057-1223-0003 Schema Version: rev 20220101 Report Generated: 2023-12-19 10:23:40

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 3 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 3 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Design Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total Number Luminaires ²	Luminaire Status ³	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1 ⁴	Field Inspector
X	EXTERIOR LED WALL MOUNT	35	Mfr. Spec	6	New	<input type="checkbox"/>	210	NA: < 6200 lumens	Pass Fail
Total Design Watts:								210	

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

² For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstallable" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁴ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION

Outdoor Lighting NRCC-LTO-E

CERTIFICATE OF COMPLIANCE (Page 7 of 7)

Project Name: MLK ELEMENTARY SCHOOL TK Report Page: (Page 7 of 7)

Project Address: 2023-12-19T13:23:38-05:00 Date Prepared: 2023-12-19T13:23:38-05:00

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

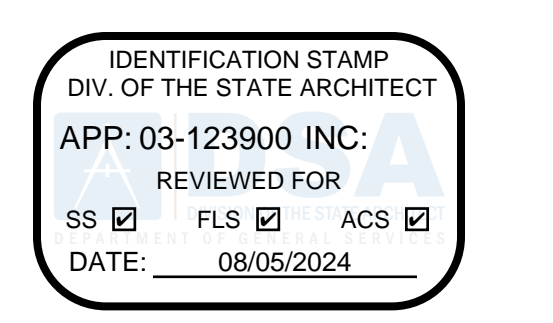
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER ST.
BAKERSFIELD CA 93305

TRANSITIONAL KINDERGARTEN

Project Address:
MLK ELEMENTARY SCHOOL

1100 CITADEL
BAKERSFIELD, CA 93307



integrated designs
by SOMAM, Inc.

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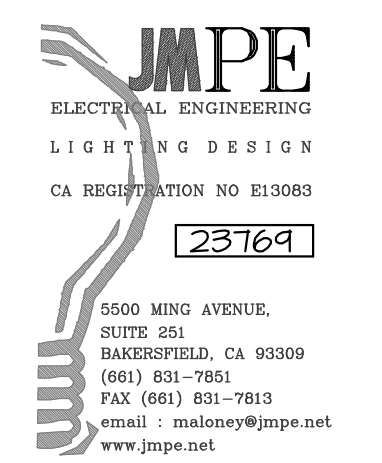


Stamp:

Sheet Title:
OUTDOOR TITLE 24 FORMS

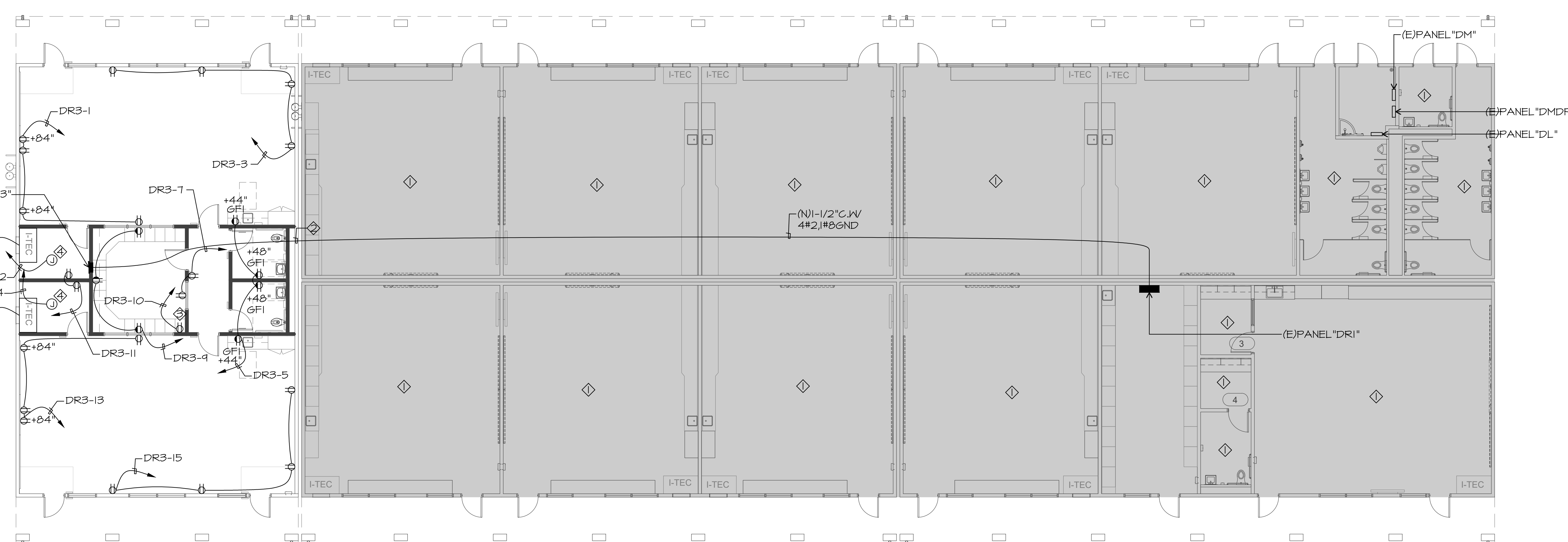
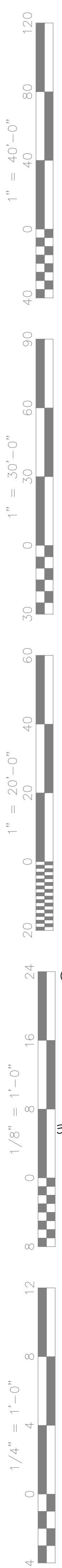
Job No.:
5593

Sheet No.:
E0.07



5500 MING AVENUE,
SUITE 855
BAKERSFIELD, CA 93309
(805) 831-7861
FAX (805) 831-7813
email: maloney@jimpe.net
www.jimpe.net

Release: DSA SUBMITTAL



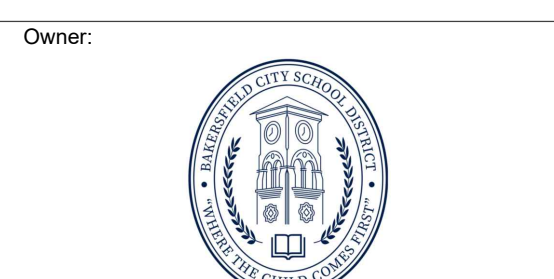
- ELECTRICAL NOTES**
- ◇ NO WORK IN THIS SPACE
 - ◇ SEE SEISMIC JOINT
 - DETAIL C
E0.01
 - ◇ PROVIDE OUTLET FOR HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH MECHANICAL SHEET M3.II.
 - ◇ CONNECT AIR IONIZERS. COORDINATE EXACT LOCATION WITH MECHANICAL SHEET M3.II

ELECTRICAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13063
23164
5500 KING AVENUE,
SUITE 351
BAKERSFIELD, CA 93309
(805) 831-7661
FAX (805) 831-7913
email: maloney@jmpe.net
www.jmpe.net

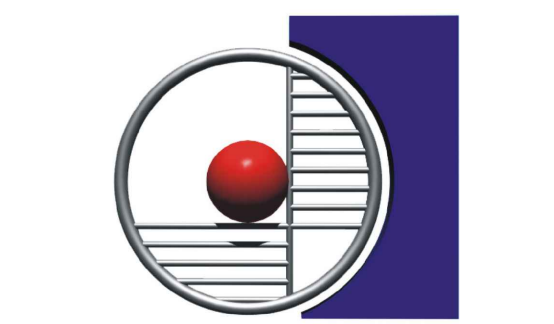
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REVIEWED FOR
SS FLS ACS
DATE: 08/05/2024



**BAKERSFIELD
CITY SCHOOL
DISTRICT**
1300 BAKER ST.
BAKERSFIELD CA 93305

Project Name:
**TRANSITIONAL
KINDERGARTEN**

Project Address:
**MLK ELEMENTARY
SCHOOL**
1100 CITADEL
BAKERSFIELD, CA 93307



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Sheet Title:
**ELECTRICAL
FLOOR PLAN**

Job No.:
5593

Sheet No.:
E1.00

Release: DSA SUBMITTAL

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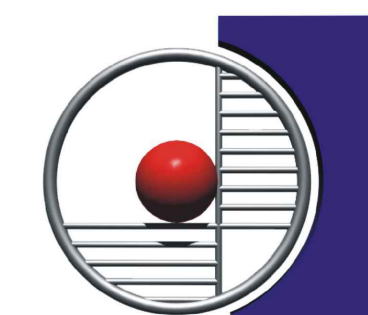
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Sheet Title:

**LIGHTING
 PLAN**

Job No.:

5593

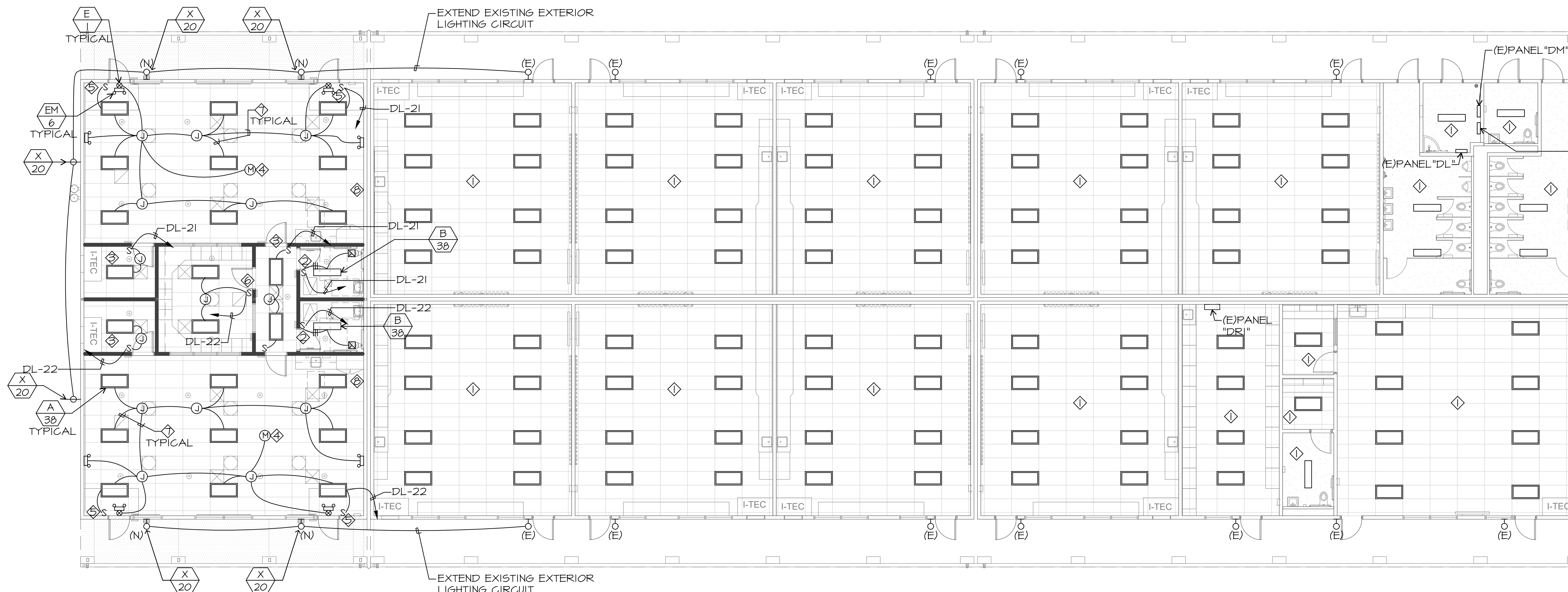
Sheet No.:

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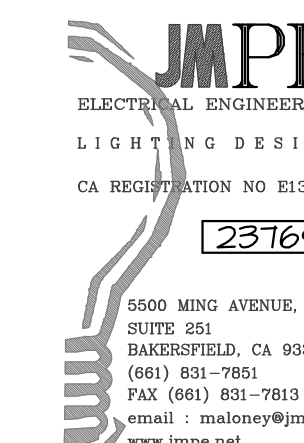
ELECTRICAL NOTES

- ◇ NO WORK IN THIS SPACE
- ◇ SENSOR SWITCH
 #WSX-PDT-2P-FAN-WH
- ◇ SENSOR SWITCH
 #WSX-PDT-WH
- ◇ SENSOR SWITCH
 #CMR4-PDT
- ◇ 0-10V DIMMER
- ◇ LUTRON #MSZIO1WH
- ◇ ILLUMINARY CABLE, 2#12,
 2#14, 1#12GND.
- ◇ REMOVE EXISTING SCONCE
 FIXTURES ON EXTERIOR
 WALL. RECONNECT CIRCUIT
 TO REMAINING FIXTURES

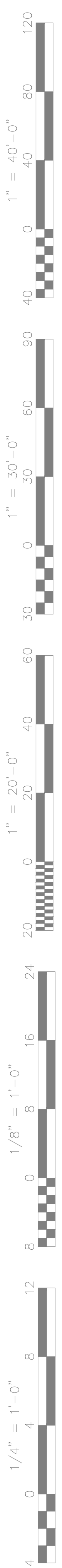


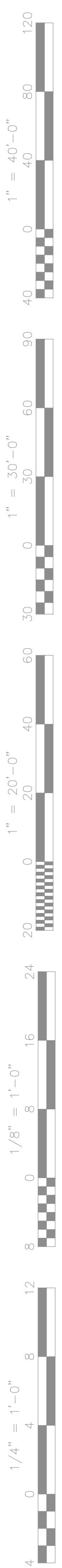
LIGHTING PLAN

SCALE: 1/8" = 1'-0"



JMPE
 ELECTRICAL ENGINEERING
 LIGHTING DESIGN
 CA REGISTRATION NO E13083
 23164
 5500 KING AVENUE,
 SUITE 255
 BAKERSFIELD, CA 93309
 (805) 851-7861
 FAX (805) 851-7813
 email: james@jmpe.net
 www.jmpe.net






FIRE ALARM NOTES

- ◇ EXISTING DEVICES NO WORK IN THIS AREA
- ◇ EXTEND EXISTING FIRE ALARM CIRCUIT

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Project Name:
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Project Address:
MLK ELEMENTARY SCHOOL
 1100 CITADEL
 BAKERSFIELD, CA 93307



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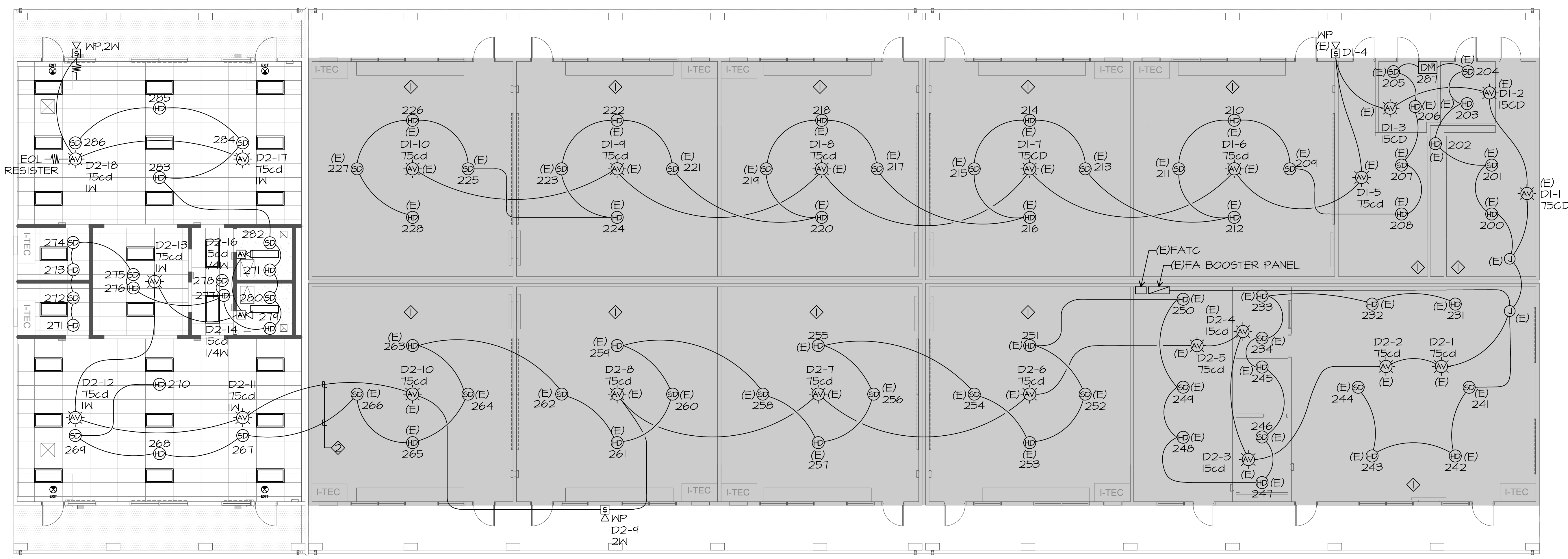
Stamp:


Sheet Title:
FIRE ALARM PLAN

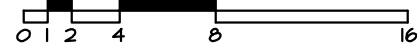
Job No.:
5593

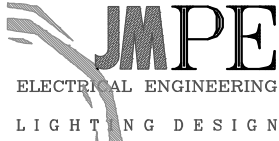
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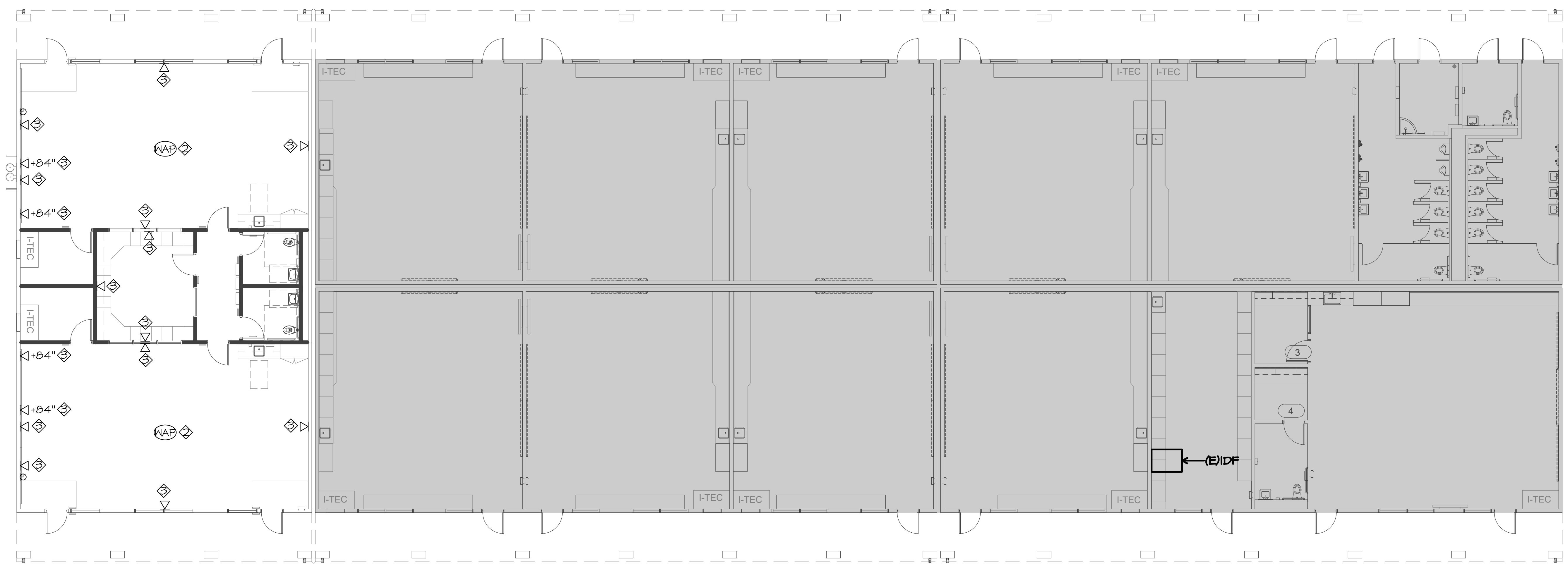
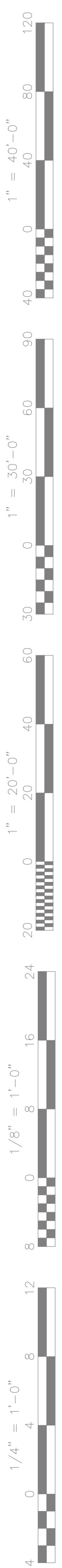


FIRE ALARM PLAN

SCALE: 1/8" = 1'-0" 



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 LIGHTING DESIGN
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 SUITE 555
 BAKERSFIELD, CA 93309
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 FAX (805) 831-7813
 email: maloney@jmpe.net
 www.jmpe.net



ELECTRICAL NOTES

- ◇ NO WORK IN THIS SPACE
- ◇ (2)CAT 6A BACK TO IDF. WAP FURNISHED BY BCSD.
- ◇ DATA OUTLET W/ (2)RJ45 CONNECTORS AND (2)CAT6 CABLES BACK TO IDF

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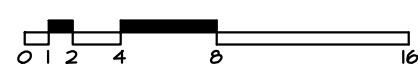

Sheet Title:
DATA AND COMM. PLAN

Job No.:
5593

Sheet No.:
E1.03

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DATA AND COMMUNICATIONS PLAN

SCALE: 1/8" = 1'-0" 

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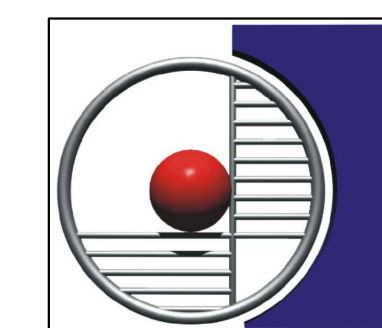
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Project Address:

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 SCHOOL**

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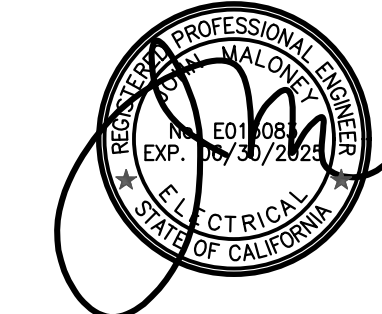
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Sheet Title:

**FIRE ALARM
 SITE PLAN**

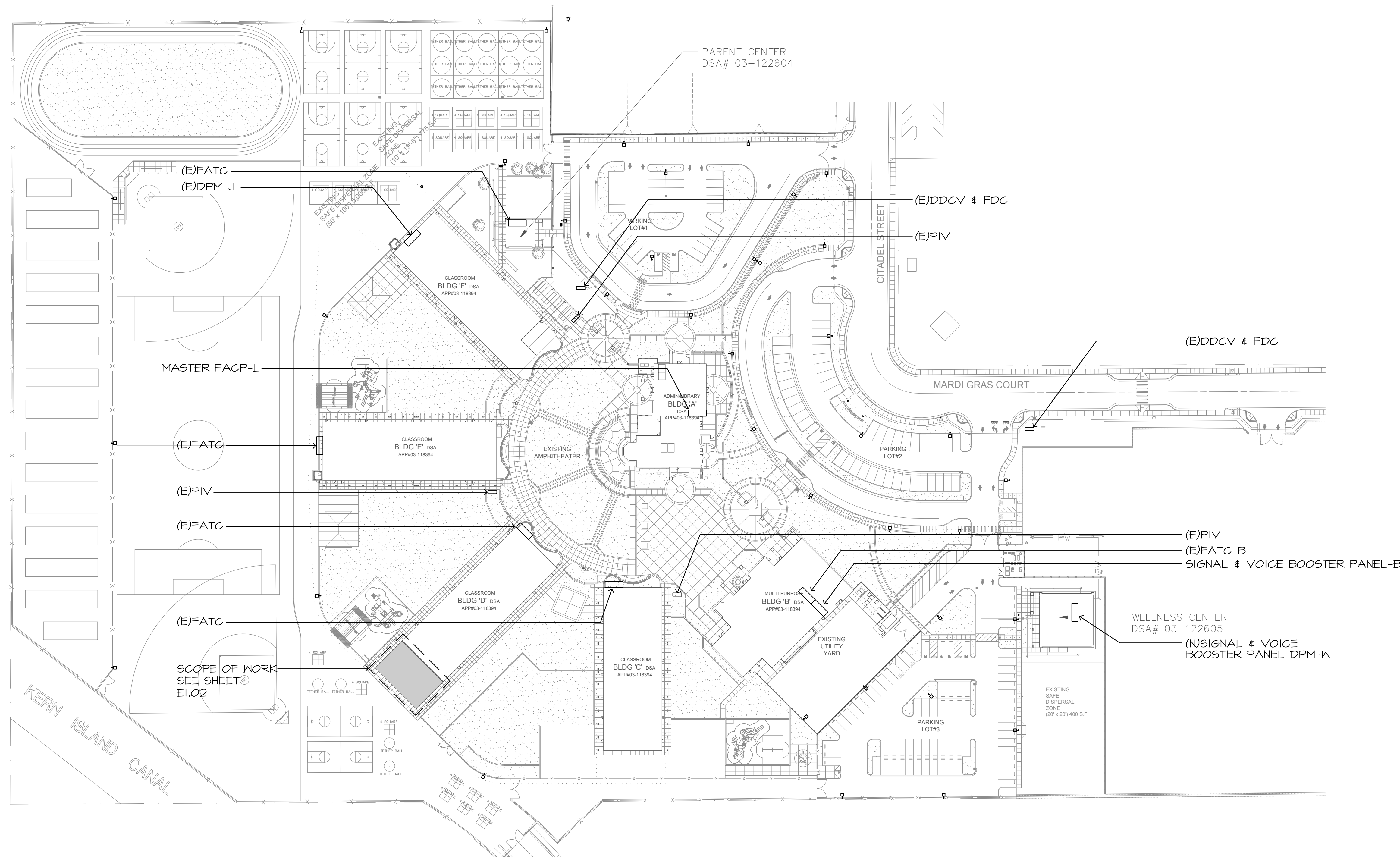
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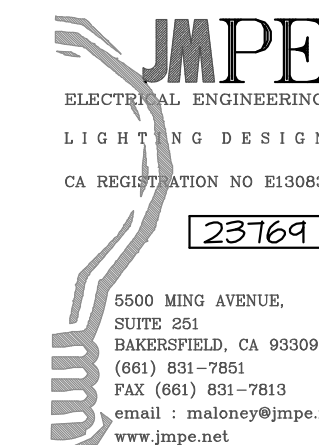
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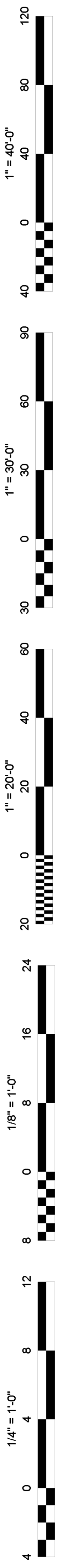
Release: DSA SUBMITTAL



FIRE ALARM PLAN

SCALE: 1/64" = 1'-0"





LIGHT HAZARD AREAS

1. ALL CLASSROOMS, OFFICE AREAS, CORRIDORS, BATHROOMS, AND SIMILAR AREAS ARE LIGHT HAZARD. DENSITY 0.10 GPM/FT².
2. HOSE ALLOWANCE FOR LIGHT HAZARD SHALL BE 100 GPM.



VICINITY MAP

SCALE: NONE

MAXIMUM HANGER SPACING PER NFPA 13 TABLE 17.4.2.1(a)									
STEEL PIPE EXCEPT THREADED LIGHTWALL	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"

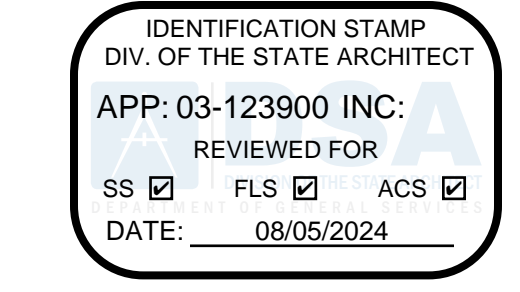
NFPA 13 §17.4.3.4.1
 For steel pipe, the unsupported horizontal length between the end sprinkler and the last hanger on the line shall not be greater than 36 in. for 1 in. pipe, 48 in. for 1 1/4 in. pipe, and 60 in. for 1 1/2 in. or larger pipe.
 NFPA 13 §17.4.3.5.1
 The cumulative horizontal length of an unsupported armover to a sprinkler, sprinkler drop, or sprig shall not exceed 24 in. (600 mm) for steel pipe

SPRINKLER SPECIFICATIONS

- SYSTEM DESIGN:
1. SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA 13 (2022), CBC (2022), AND LOCAL MUNICIPAL CODES.
 2. SYSTEM TO BE AUTOMATIC WET PIPE SPRINKLER SYSTEM.
 3. SPRINKLER DISCHARGE DENSITY SHALL BE A MINIMUM OF 0.10 GPM/SQFT FOR LIGHT HAZARD AREAS.
 4. SPRINKLER TEMPERATURE RATINGS SHALL BE 165° FOR ALL CONDITIONED AREAS AND 200° FOR NON-CONDITIONED AREAS.
 5. SPACING SHALL NOT EXCEED 196 SQFT IN LIGHT HAZARD AREAS. 130 SQFT IN CONCEALED OBSTRUCTED AREAS.
 6. BUILDING SHALL BE SUPPLIED AS SHOWN ON SITE PLAN. FLOW DETECTOR AND TAMPER RESISTANT VALVES WILL BE SUPPLIED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR.
 7. AND WIRED BY ALARM CONTRACTOR.
 8. FIRE SPRINKLER PIPING SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON PLANS):
 - A. PIPING 1 1/4" AND LARGER SHALL BE EDDYFLOW BLACK STEEL WITH ROLLED FITTINGS.
 - B. PIPING LESS THAN 1 1/4" SHALL BE EDDYTHREAD BLACK STEEL WITH THREADED FITTINGS.
 9. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2022).
 10. SPRINKLERS TO BE INSTALLED PER NFPA (2022) §10.2.6.1.2 SPRINKLER DEFLECTORS TO BE WITHIN 1'-6" BELOW STRUCTURAL MEMBERS AND A MAXIMUM DISTANCE OF 22" BELOW THE ROOF DECK/CEILING (BOTTOM OF INSULATION PER NFPA 13).
 11. MICROBIAL INDUCED CORROSION WILL NOT BE A FACTOR FOR THIS SYSTEM.
 12. ACCEPTANCE TEST IN ACCORDANCE WITH NFPA 13 (2022).

GENERAL NOTES

- SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13 (2022). ALL WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS, STATE, LOCAL, AND NATIONAL CODES.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE, AND ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ACCEPTABLE WORKING INSTALLATION.
- CONTRACTOR TO BID SYSTEM AS DESIGNED (SCHEMATICALLY) BY THE DESIGNER. ANY ALTERNATE DESIGNS BY CONTRACTOR ARE TO BE SUBMITTED AND APPROVED BY ENGINEER PRIOR TO BIDDING. ANY DEVIATIONS FROM THE ORIGINAL DESIGN INTENTION SHALL BE CLOUDED AND NOTED ON SHOP DRAWINGS.
- GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR INSURING ALL SUB-CONTRACTOR'S COORDINATE SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, DEVICE, MATERIAL, AND ETC. SUBMISSION OF SHOP DRAWINGS TO THE ENGINEER OF RECORD CONSTITUTES THAT THE DRAWINGS SUBMITTED HAVE BEEN COORDINATED AMONGST THE TRADES. FAILURE TO COORDINATE SHOP DRAWINGS DOES NOT CONSTITUTE A CHANGE ORDER TO THE OWNER.
- ANY COORDINATION ITEMS THAT ARISE FROM COORDINATION OF TRADES SHALL EITHER BE HANDLED IN THE FIELD AND SHOWN ON THE AS-BUILTS, OR SHALL BE PROVIDED TO THE ARCHITECT BY RFI DETAILING COORDINATION ISSUE AND PROPOSED SOLUTION. COORDINATION ISSUES THAT ARISE AFTER DRAWINGS ARE APPROVED SHALL BE SHOWN ON THE AS-BUILTS.
- CONTRACTOR TO PROVIDE SIX (6) SETS OF THE FOLLOWING:
- A. COORDINATED SHOP DRAWINGS INCLUDING ALL CUT LENGTHS.
 - B. BOUND SUBMITTALS INCLUDING COVER PAGE, PIPING, HARDWARE, AND MATERIALS (INCLUDING FIRE STOPPING), COVER PAGE TO INCLUDE PROJECT NAME, SPRINKLER CONTRACTOR, GENERAL CONTRACTOR, ARCHITECT, AND DATE SUBMITTED FOR REVIEW.
- ALL ITEMS REQUIRED BY NFPA 13 (2022) CHAPTER 23 (FOR WORKING DRAWINGS) SHALL BE PROVIDED ON THE SHOP DRAWINGS. SUBMITTALS ARE IN ADDITION AND NOT IN LIEU OF THIS REQUIREMENT.
- ACTUAL SPACING FOR SPRINKLER PIPING AND HEADS MAY VARY WITH FIELD COORDINATION ISSUES, BUT SHALL MEET MINIMUM REQUIREMENTS OF NFPA 13 (2022).
- ALL HANGERS, THREADED ROD, AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
- ALL UNDERGROUND PVC, C-900, OR OTHER PLASTIC PIPING IS UTILIZED SHALL BE EQUIPPED WITH A SUITABLE MAGNETIC LOCATOR TAPE INSTALLED APPROPRIATELY TO THE TOP OF THE PIPING.
- HEADS ARE TO BE LOCATED CENTER TILE (OR AS SHOWN) ACCORDING TO INDUSTRY STANDARDS AND PRACTICES.
- LOCATION OF SEISMIC HANGERS ARE SCHEMATIC IN NATURE AND INTENDED TO SHOW APPROXIMATE LOCATIONS OF RESTRAINTS. SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR SHOWING THE EXACT LOCATION OF SEISMIC RESTRAINTS ON SHOP DRAWINGS AND AS-BUILTS.
- SHOP DRAWINGS SHALL DESIGNATE THE TYPE AND LOCATION OF EACH RESTRAINT AND SHALL BE ACCOMPANIED BY A DETAIL AND CALCULATIONS IN ACCORDANCE WITH NFPA
- ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE OR ANY CHANGES TO SIZE, MANUFACTURER OR LENGTHS OF "FLEXIBLE" TYPE PIPING WILL REQUIRED RESUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS AND HYDRAULIC CALCULATIONS TO DSA FLS FOR REVIEW AND APPROVAL.



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BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93305

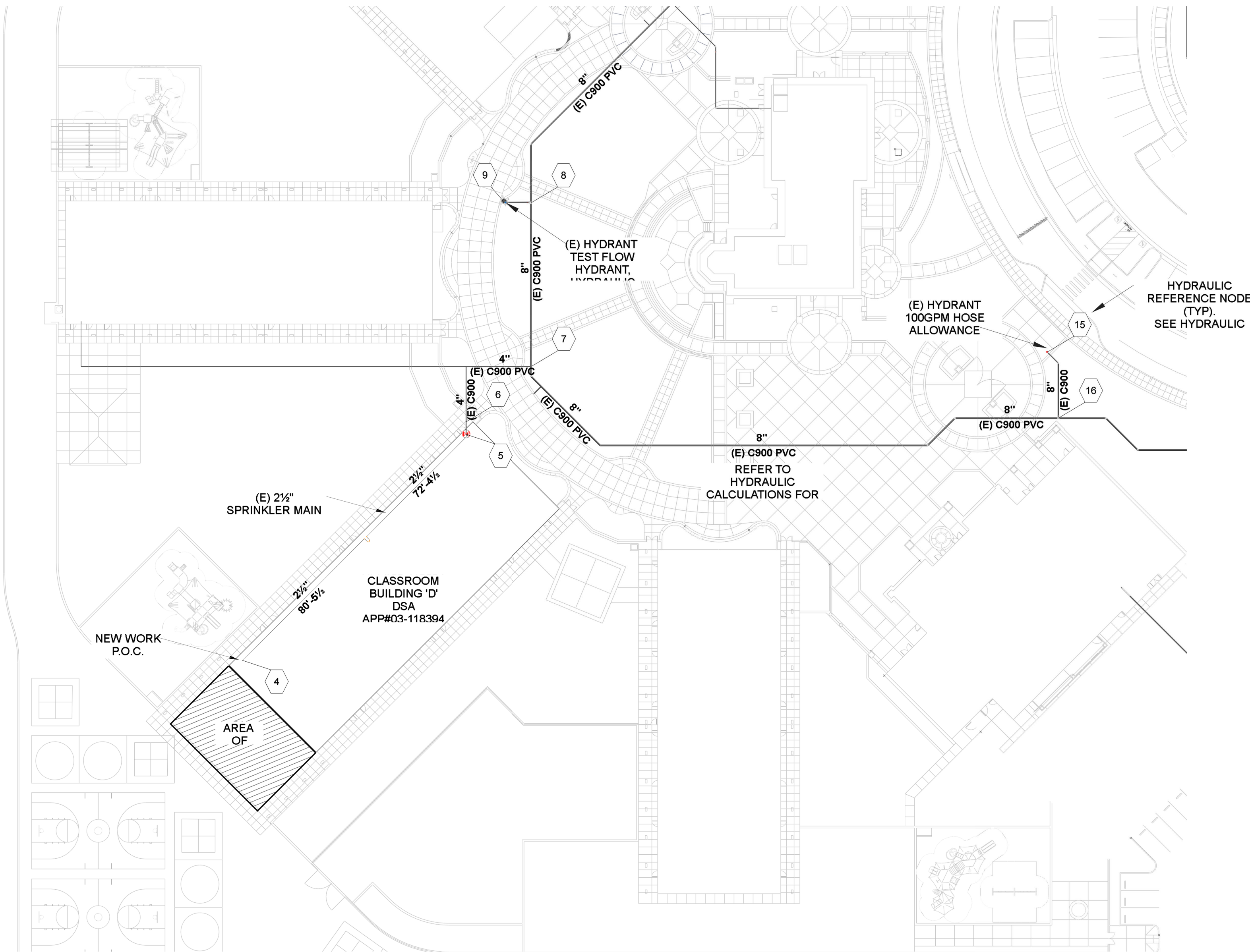
Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL
 1100 CITADEL STREET
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HYDRAULIC REFERENCE SITE PLAN
 SCALE: NONE

FIRE WATER UG PIPING IS SHOWN FOR HYDRAULIC REFERENCE ONLY. REFER TO CIVIL SHEETS FOR FIRE WATER PLAN.

Hydrant Flow Test Report

Test Date 10/26/2022 Test Time 4:00pm

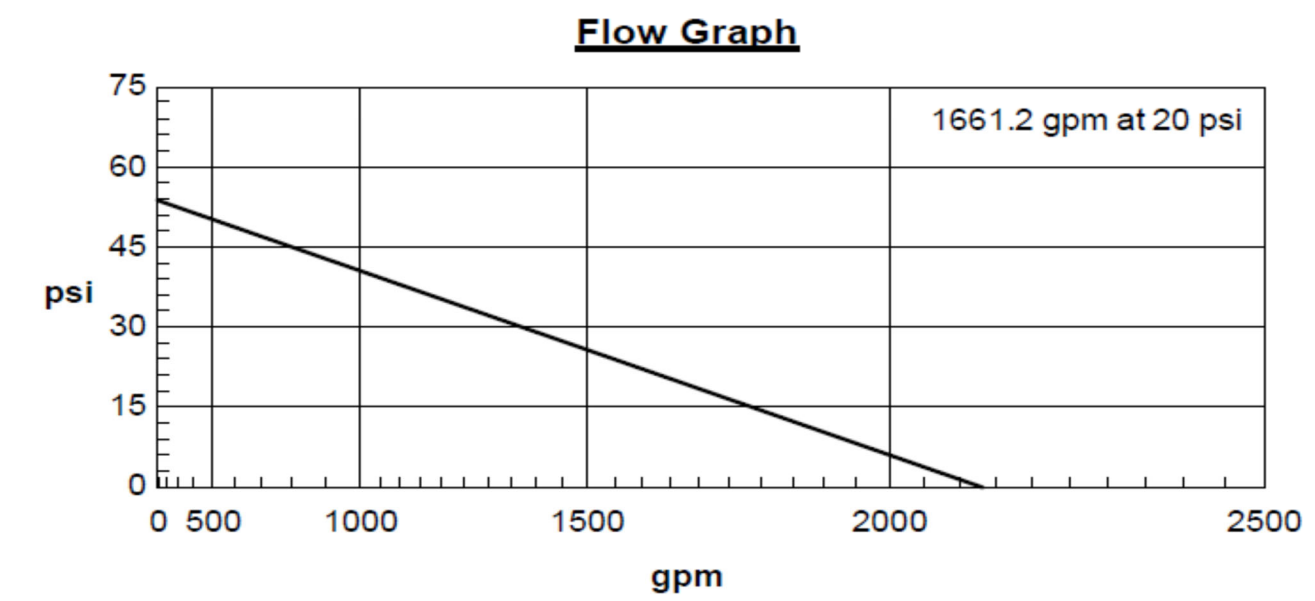
Location
 Martin Luther King Jr. Elementary School
 1100 Citadel St.
 Bakersfield, CA 93307

Tested by
 RLH Fire Protection
 4300 Stine Rd. Ste 800
 Bakersfield, CA 93308
 661-322-9344
 LIC# 777717
 Josh Castillo & Randy Seaton

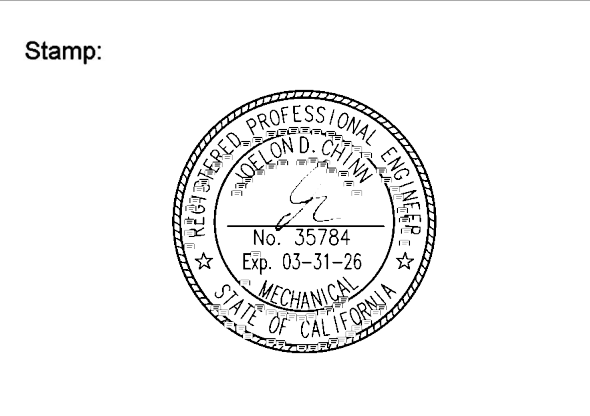
Notes
 4inch Big Hose Monster used for flow test
 Flow: Center of Campus
 Read: East of building A & B

Read Hydrant
 54 psi static pressure
 34 psi residual pressure
 1.5 ft hydrant elevation

Flow Hydrant(s)					
Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	1.5	4	.85		1247 gpm



STATE OF CALIFORNIA C-16 LICENSE No. 986234
 3644 SOUTH BAGLEY AVENUE
 FRESNO, CALIFORNIA 93725
 559 485-4400 | FAX 559 485-4402
 WWW.MSFIREPRO.COM



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FIRE SPRINKLER SITE PLAN & NOTES

Job No.: **5593**

Sheet No.: **F1.01**

Release: DSA SUBMITTAL Date:

Sprinkler Legend									
Symbol	Manufacturer	SIN	Quantity	K-Factor	Type	Size	Response	Finish	Temperature
○	Tyco	TY3131	28	5.6	Upright	1/2"	Quick	Brass	200°F
●	Tyco	TY3331	19	5.6	Pendent	1/2"	Quick	Chrome	155°F
◐	Tyco	TY3331	6	5.6	Sidewall	1/2"	Quick	Chrome	200°F
			Total = 53						

Exterior sprinkler heads are to be corrosion resistant per manufacturer.

Hydraulic Information	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft²)	0.10 for 1500.00ft² (Actual 963.01ft²)
QUICK RESPONSE REDUCTION	9'-0" Ceiling (40.0%) 900.00ft²
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	6
K-FACTOR	5.6
TOTAL WATER REQUIRED	235.93
TOTAL PRESSURE REQUIRED	41.059
SAFETY MARGIN (psi)	+12.022 (22.6%)
AFS MAX HEAD SPACING (ft²)	15'x15' - 225ft²

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LATERAL SEISMIC BRACE (PERPENDICULAR)
	LONGITUDINAL SEISMIC BRACE (PARALLEL)
	4-WAY SEISMIC BRACE (PARALLEL/PERPENDICULAR)
	PIPE HANGERS - SEE DETAILS, SHEET F3.01
	200° PENDENT SPRINKLER
	156° SIDEWALL SPRINKLER
	200° UPRIGHT SPRINKLER
	HYDRAULIC NODE
	FIRE PIPING

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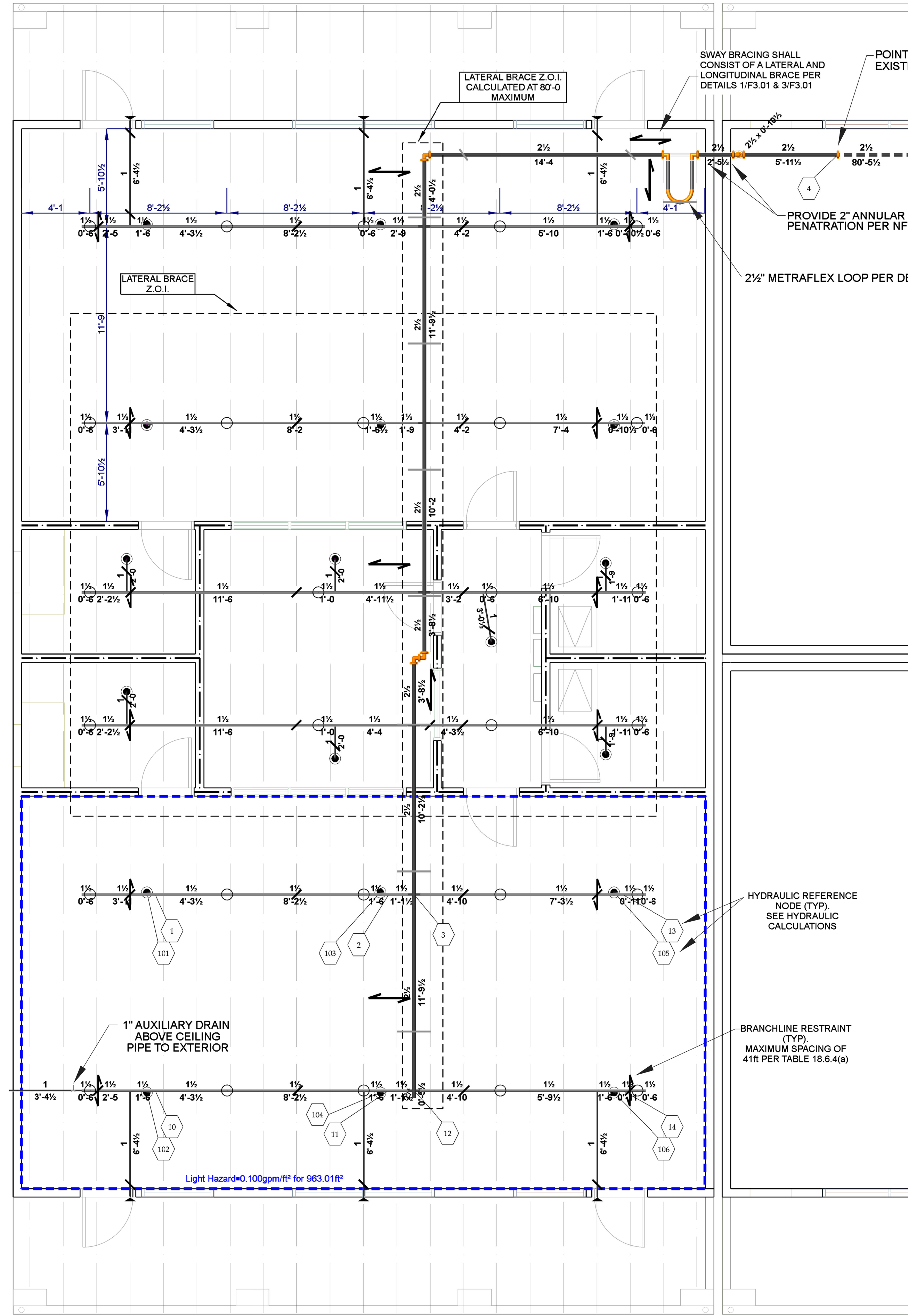
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FIRE SPRINKLER PIPING PLAN & RCP

Job No.:
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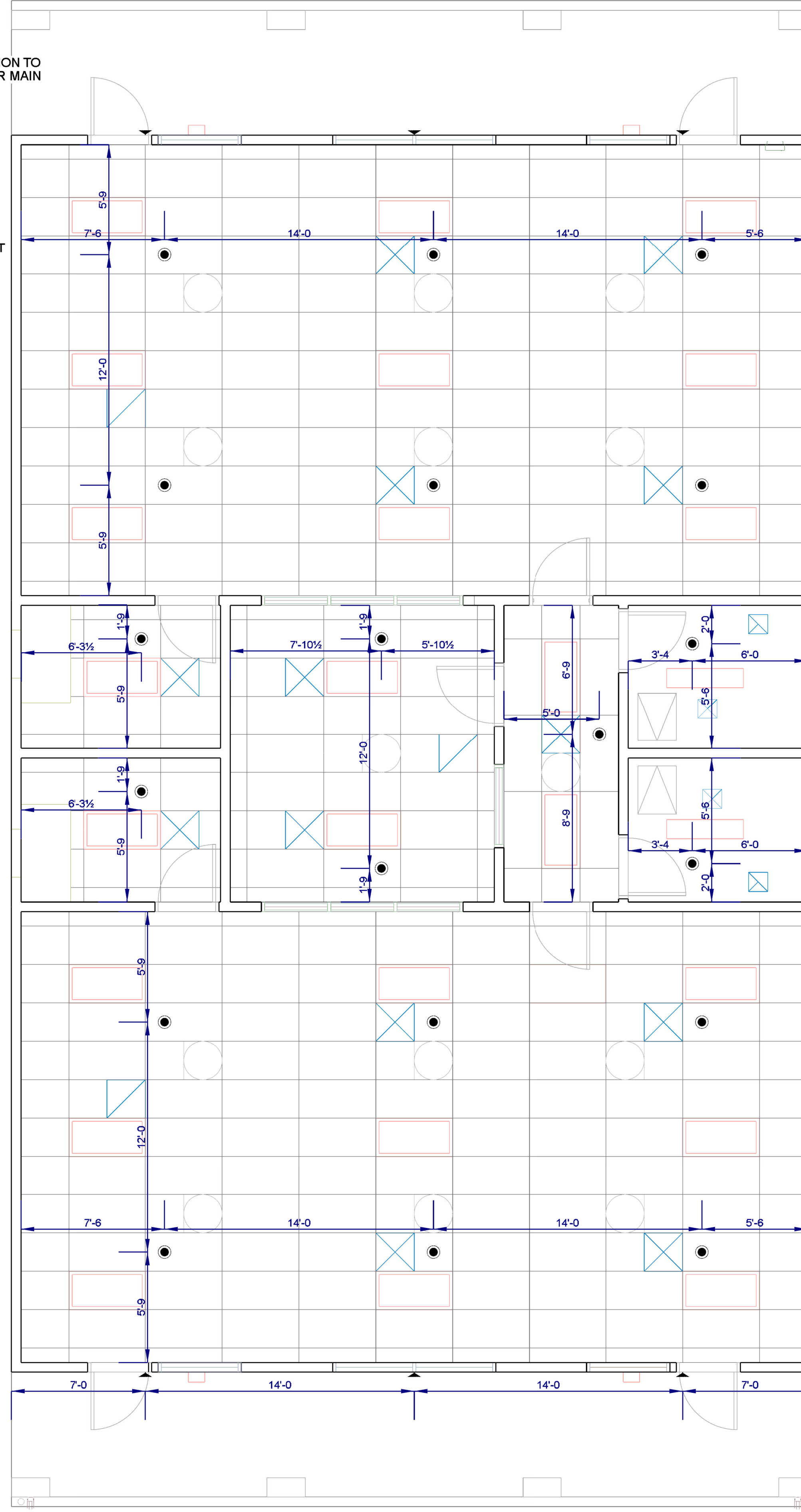
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PIPING PLAN

SCALE: 1/4" = 1'-0"



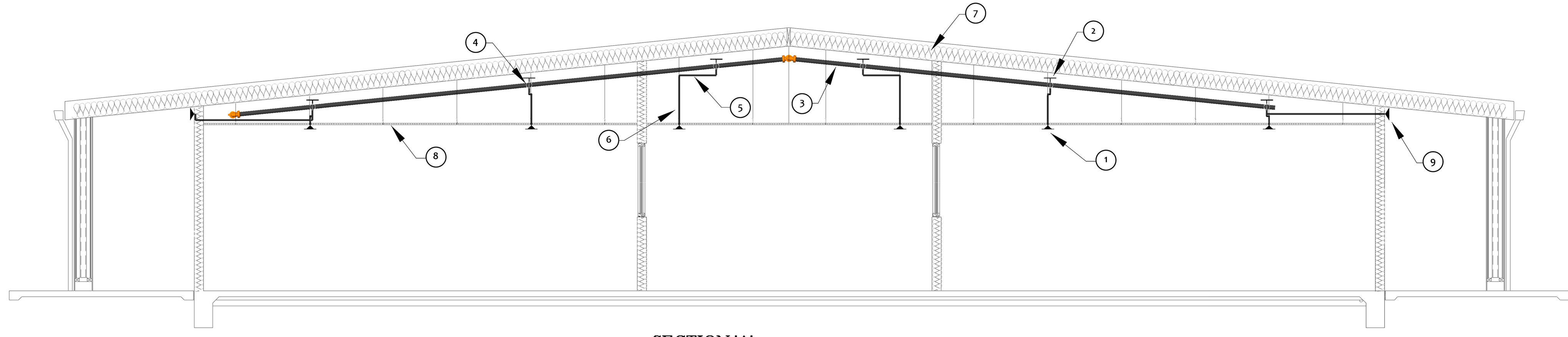
REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"



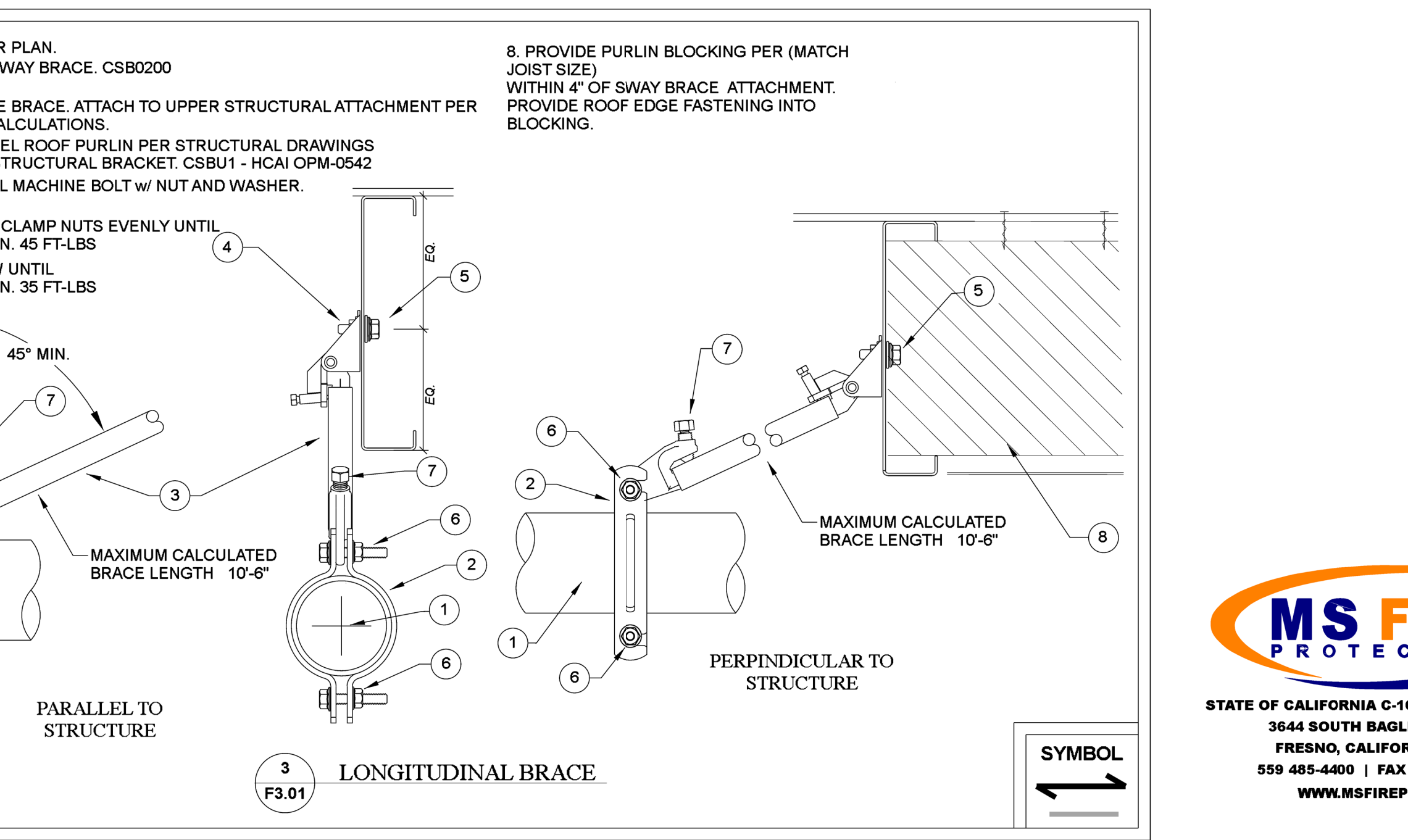
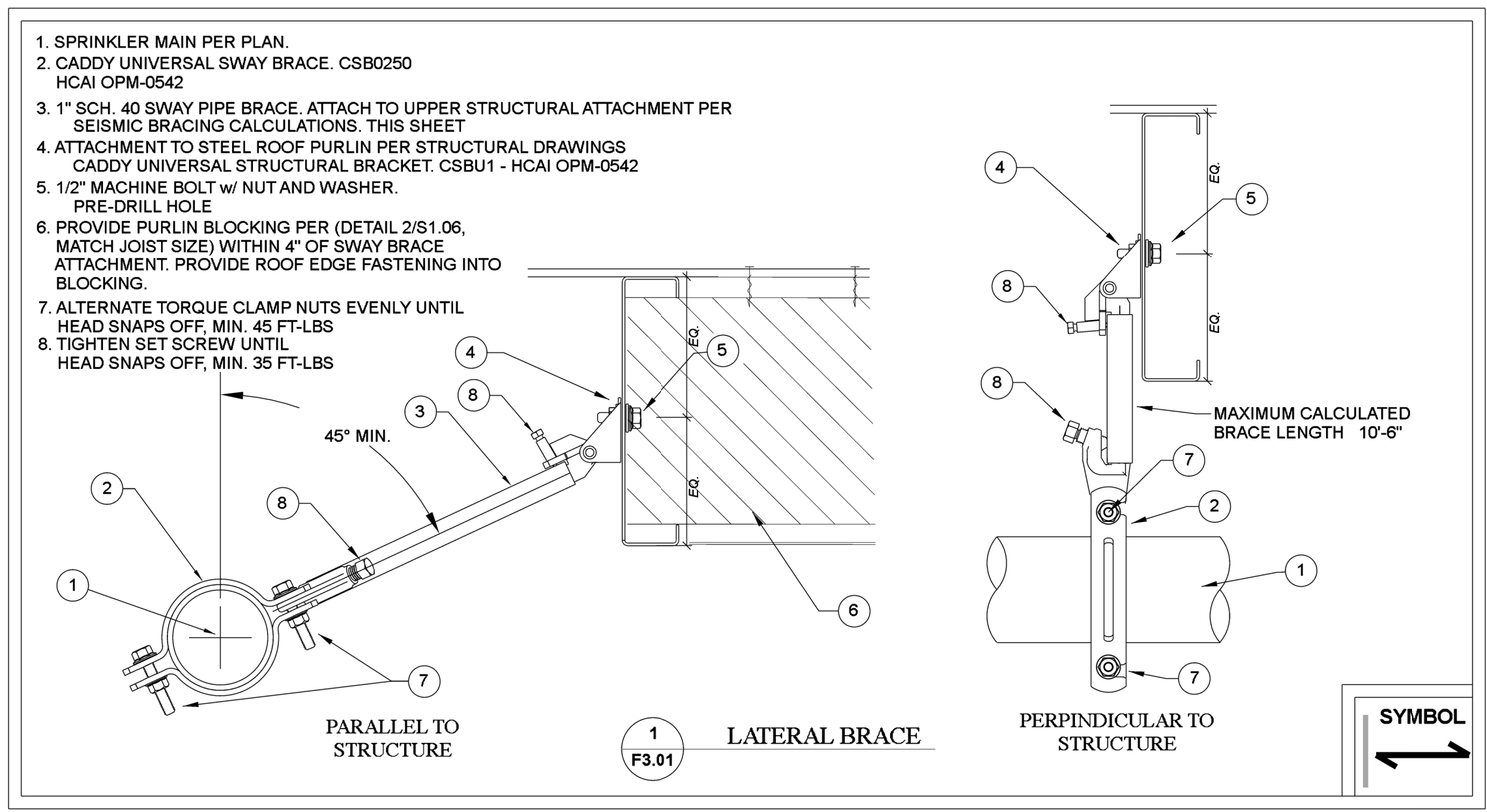
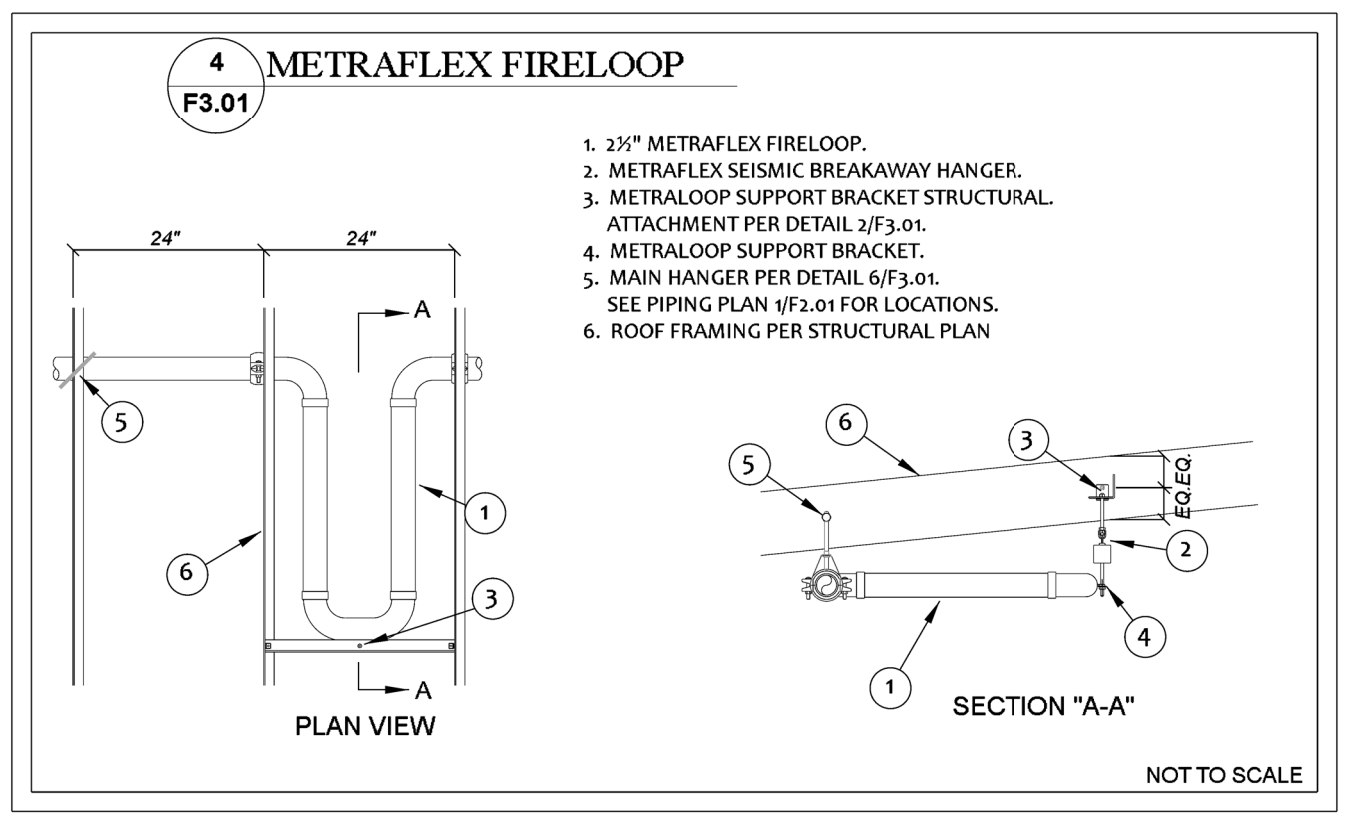
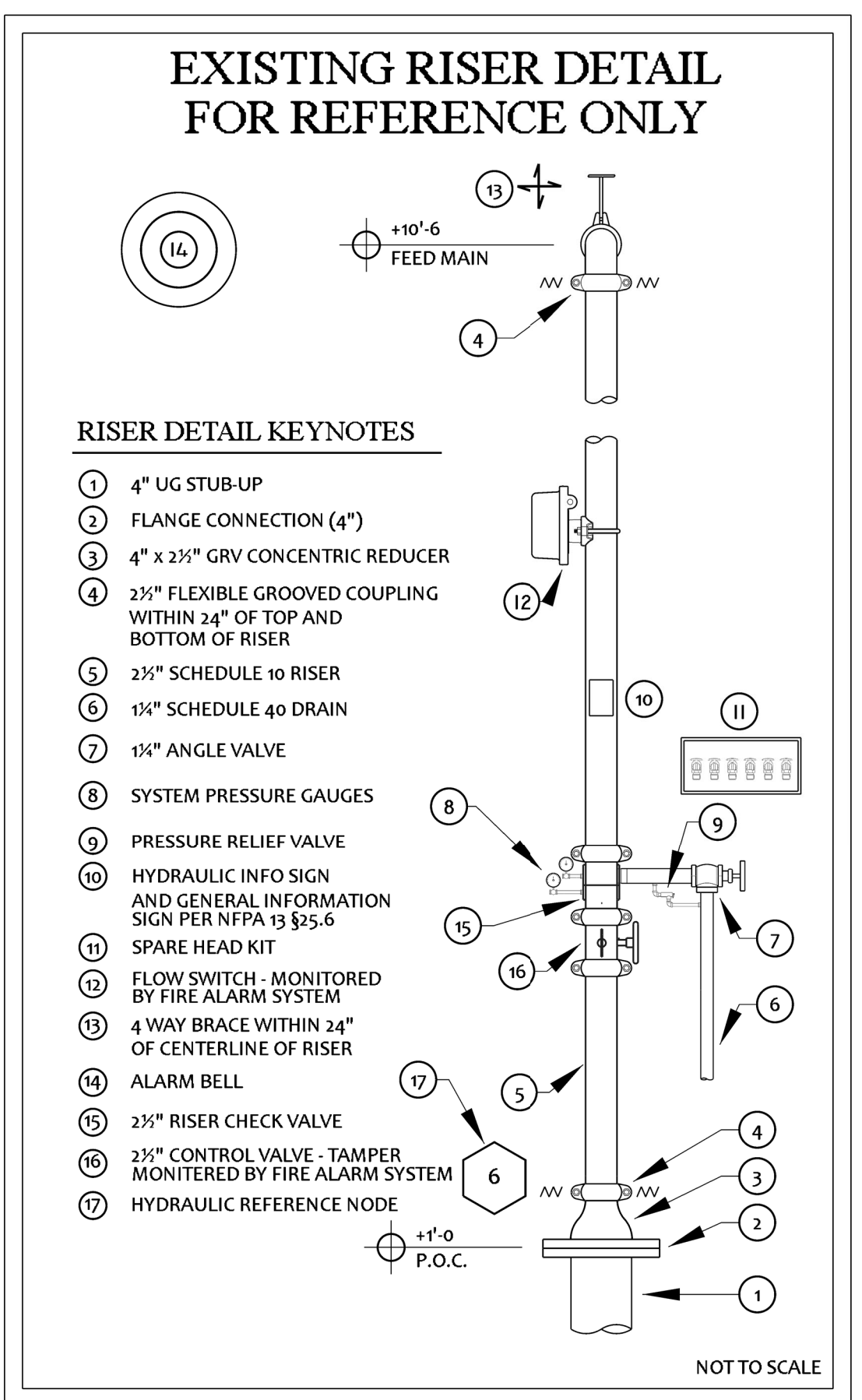
STATE OF CALIFORNIA C-16 LICENSE No. 986234
3644 SOUTH BAGLEY AVENUE
FRESNO, CALIFORNIA 93725
559 485-4400 | FAX 559 485-4402
WWW.MSFIREPRO.COM

1" = 40'-0"
 1" = 30'-0"
 1" = 20'-0"
 1" = 1'-0"
 1/4" = 1'-0"



SECTION 'A'
 SCALE: 1/4" = 1'

- SECTION NOTES:**
- PENDENT SPRINKLER
 - UPRIGHT SPRINKLER
 - EDDYFLOW MAIN PIPING
 - EDDYFLOW BRANCHLINE PIPING
 - EDDYTHREAD 40 ARM-OVER PIPING
 - EDDYTHREAD 40 DROP PIPING
 - INSULATION
 - SUSPENDED ACOUSTIC CEILING TILE
 - SIWALL SPRINKLER



NFPA 13 2022 Seismic Bracing Calculations

Project Name: MLK TK Classrooms
 Address: 1100 Citadel St.
 City, State, Zip: Bakersfield, CA 93307
 Prepared By: MS FIRE, Kevin
 Date: 27-Dec-2023

Brace Design: Lateral
 Contractor Name: MS FIRE
 Address: Bakersfield, CA 93307
 City, State, Zip: Bakersfield, CA 93307

Brace Information		Seismic Brace Attachments	
Maximum Length of Brace: 10'-6"	Structure Attachment Fitting: Universal Structural Bracket, EG, 9/16" Hole	Make: CADDY	Model: CSBU1
Size of Brace (in): 1" - Sch40	Make: CADDY	Model: n/a	
Type of Brace: Sch 40 Pipe	Structure Attachment Adapter: n/a	Make: CADDY	Model: n/a
Brace Angle Range: 45-59 Degrees	FM Load Rating (lbs): n/a	Make: CADDY	Model: n/a
Maximum Brace Spacing (ft): 30.00	Structure Attachment Adapter: n/a	Make: CADDY	Model: n/a
Least Radius of Gyration* (in): 0.421	FM Load Rating (lbs): n/a	Make: CADDY	Model: n/a
k/l/r Value: * 300	Sway Brace Fitting: Universal Sway Brace, EG, 2 1/2" Pipe	Make: CADDY	Model: CSB0250
Maximum Horizontal Load (lbs): 582	FM Load Rating (lbs): 2030	Make: CADDY	Model: CSB0250

Fastener Information	
Fastener Orientation: E	Structure: Steel (I-Beam, C Purlin or Z Purlin)
Fastener Qty: 1	
Fastener Type: 1/2 inch dia. bolt	
Fastener Size: n/a	
Fastener Embedment: n/a	
Fastener Max. Load (lbs): 2050	
Brace Orientation: Lateral	
Brace I.D. (on plan): Lateral	

Sprinkler System Zone of Influence (ZOI) Load Calculation (Fpw = Cp x Wp)

Pipe Size	Pipe Description	Wt/ft (lbs)	15% for Fittings	Total Wt/ft	Length (ft)	Total Wt
2 1/2"	EDDY Flow	5.30	0.80	6.10	30.00	182.90
1 1/2"	EDDY Flow	2.86	0.43	3.29	102.00	335.48
Sway Brace Attached to 2 1/2" Eddy_Flow Pipe						
Horizontal Earthquake Load						
Weight of Misc. ZOI Valves and Fittings						0.00
Total Zone of Influence (ZOI) Weight (Wp)						518.38

Horizontal Earthquake Load

$Fpw = Cp \times Wp$
 $Fpw = 0.56 \times 518.38$
 $Fpw = 290.00$ lbs

NFPA 13 2022 Seismic Bracing Calculations

Project Name: MLK TK Classrooms
 Address: 1100 Citadel St.
 City, State, Zip: Bakersfield, CA 93307
 Prepared By: MS FIRE, Kevin
 Date: 27-Dec-2023

Brace Design: Longitudinal
 Contractor Name: MS FIRE
 Address: Bakersfield, CA 93307
 City, State, Zip: Bakersfield, CA 93307

Brace Information		Seismic Brace Attachments	
Maximum Length of Brace: 10'-6"	Structure Attachment Fitting: Universal Structural Bracket, EG, 9/16" Hole	Make: CADDY	Model: CSBU1
Size of Brace (in): 1" - Sch40	Make: CADDY	Model: n/a	
Type of Brace: Sch 40 Pipe	Structure Attachment Adapter: n/a	Make: CADDY	Model: n/a
Brace Angle Range: 45-59 Degrees	FM Load Rating (lbs): n/a	Make: CADDY	Model: n/a
Maximum Brace Spacing (ft): 80.00	Structure Attachment Adapter: n/a	Make: CADDY	Model: n/a
Least Radius of Gyration* (in): 0.421	Sway Brace Fitting: Universal Sway Brace, EG, 2 1/2" Pipe	Make: CADDY	Model: CSB0250
k/l/r Value: * 300	FM Load Rating (lbs): 1820	Make: CADDY	Model: CSB0250
Maximum Horizontal Load (lbs): 582	FM Load Rating (lbs): 1820	Make: CADDY	Model: CSB0250

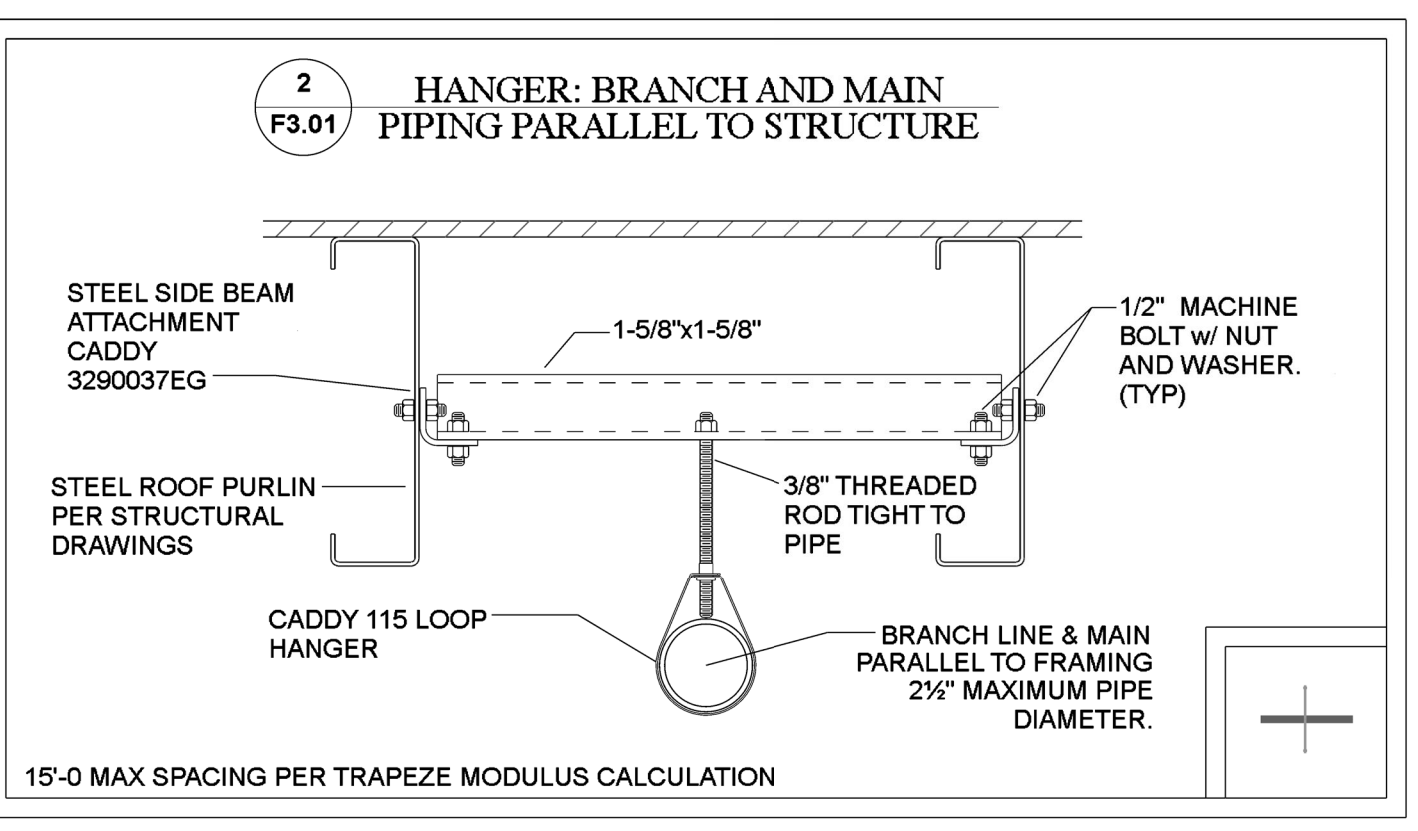
Fastener Information	
Fastener Orientation: E	Structure: Steel (I-Beam, C Purlin or Z Purlin)
Fastener Qty: 1	
Fastener Type: 1/2 inch dia. bolt	
Fastener Size: n/a	
Fastener Embedment: n/a	
Fastener Max. Load (lbs): 2050	
Brace Orientation: Longitudinal	
Brace I.D. (on plan): New Design 2	

Sprinkler System Zone of Influence (ZOI) Load Calculation (Fpw = Cp x Wp)

Pipe Size	Pipe Description	Wt/ft (lbs)	15% for Fittings	Total Wt/ft	Length (ft)	Total Wt
2 1/2"	EDDY Flow	5.30	0.80	6.10	80.00	487.60
Sway Brace Attached to 2 1/2" Eddy_Flow Pipe						
Horizontal Earthquake Load						
Weight of Misc. ZOI Valves and Fittings						0.00
Total Zone of Influence (ZOI) Weight (Wp)						487.60

Horizontal Earthquake Load

$Fpw = Cp \times Wp$
 $Fpw = 0.56 \times 487.60$
 $Fpw = 273.00$ lbs



TRAPEZE MODULUS CALCULATION

SPAN INFORMATION	
2.00	Length of Trapeze (in Feet)
1.00	Location of Point Load

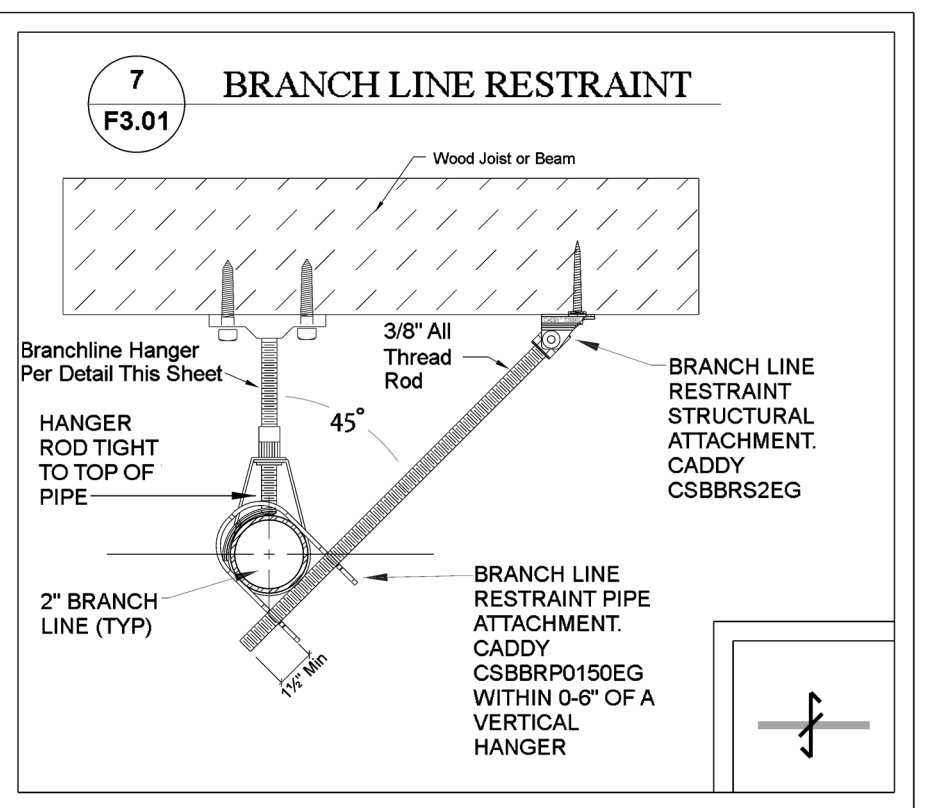
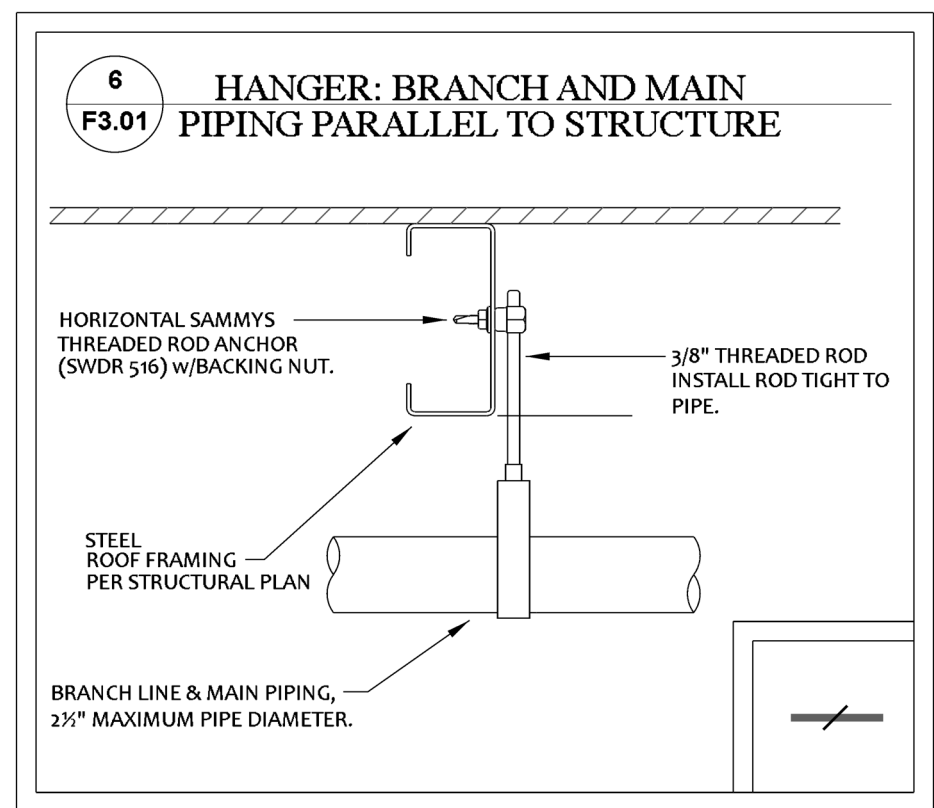
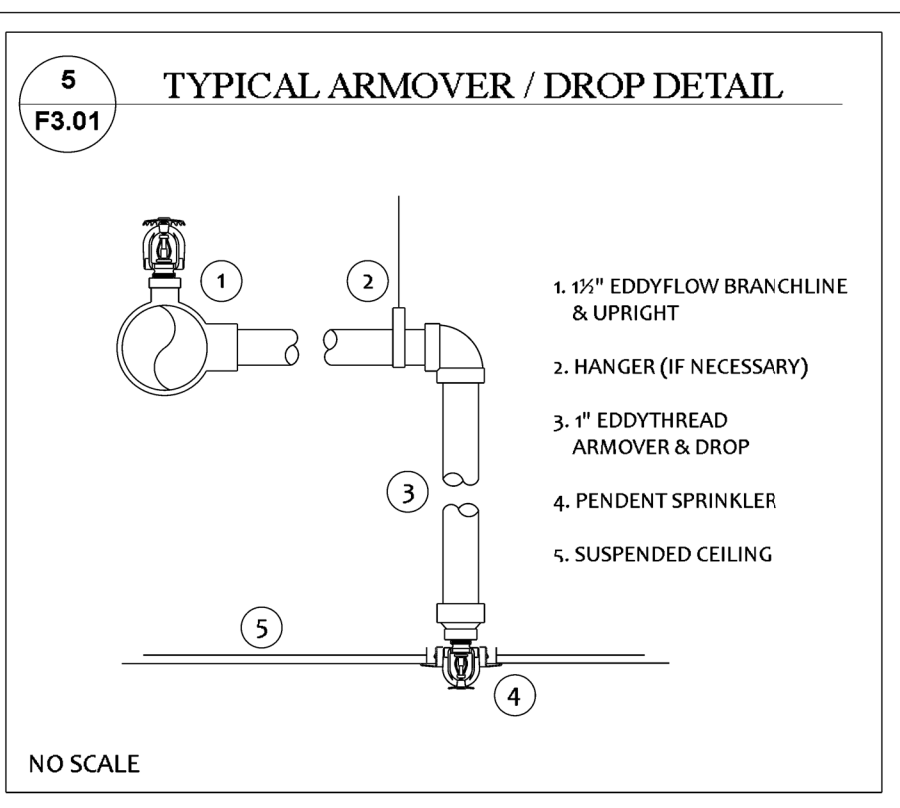
TRAPEZE MATERIAL	
15/8" STRUT	Trapeze Material Type
2 inch	Trapeze Size/Depth
0.398	Section Modulus of Trapeze Material

PIPE TO BE SUPPORTED

EDDYFLOW	
2 1/2 inch	Piping Material to be Supported
4.97	Maximum Size of Pipe being supported
15'-0	Weight per Foot
	Length of Pipe (NFPA Tables are based on 15-foot of pipe)
34.55	Adjusted Point Load (1.0 Safety Factor plus an additional 250lb load)

MIN REQ'D MODULUS

0.1298	Minimum Required Section Modulus for a maximum allowable bending stress of 15 kpsi with the adjusted trapeze length and point load location.
--------	--



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 SS FLS ACS
 DATE: 08/05/2024

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
 1300 BAKER STREET
 BAKERSFIELD, CA 93305

Project Name:
TRANSITIONAL KINDERGARTEN

Project Address:
DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL
 1100 CITADEL STREET
 BAKERSFIELD, CA 93307

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 by SOMAM, Inc.
ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
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Sheet Title:
FIRE SPRINKLER NOTES & DETAILS

Job No.: **5593**

Sheet No.: **F3.01**

Release: DSA SUBMITTAL Date:

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