



Date _____

COST MODEL DRAWINGS	05.04.2020
BRIDGING DOCUMENTS 100% SD	06.01.2020

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Revisions and Description	Date
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Scale
12" = 1'-0"

Drawn by
Author

EHDD Job Number
20013

Sheet Title

COVER SHEET AND INDEX

Sheet Number

GO.00

CODE ANALYSIS

Code ANALYSIS					
BUILDING CODE ANALYSIS		SECTION NO. (CBC, u.o.n.)			
1 APPLICABLE BUILDING CODE			7C: INTERIOR WALLS		
A. 2019 California Building Code (CBC)			A. Fire Barriers		707
Part 1 – California Administrative Code			1. Extend from floor to floor		707.5
Part 2 - California Building Code		CBC	2. Openings limited to 25 percent of length of wall		707.6
Part 3 – Electrical Code		CEC	3. Applies to shafts, exit enclosures, occupancy separations, fire control room, fire pump room, incidental use areas, and other areas as noted.		707.3
Part 4 – Mechanical Code		CMC	4. Opening protection		Table 716.5
Part 5 – Plumbing Code		CPC	Wall Type		Typical IIA
Part 6 – Energy Code			Shaft/Exit Enclosure		1 hr (less than 4-stories)
Part 7 – Not Used: Elevator Code Now will be Title 8 of CCR			Door/shutter/window		1hr
Part 9 – Fire Code		CFC	B. Shaft Enclosures		707
Part 10 – California Existing Building Code			1. Duct systems constructed of approved materials in accordance with the CMC that penetrate non-fire-resistance-rated floor assemblies shall be protected by any of the following methods:		
Part 11 – California Green Building Standards Code		CGBC	a. A shaft enclosure in accordance with Section 713.		
Part 12 – Referenced Standards			b. The duct connects not more than two stories, and the annular space around the penetrating duct is protected with an approved noncombustible material that resists the free passage of flame and the products of combustion.		717.6.3
2 BUILDING DESCRIPTION			c. The duct connects not more than three stories, and the annular space around the penetrating duct is protected with an approved noncombustible material that resists the free passage of flame and products of combustion and a fire damper is installed at each floor line.		
Two story Library expansion for Program rooms; accessible bathrooms; pantry; storage			2. Not required for floor openings per the following: In other than Group I-3, a floor opening that is not used as one of the applications listed in this section shall be permitted if it complies with all of the items below:		
3 OCCUPANCY		CHAPTER 3	a. Does not connect more than 2 stories		
Library Patrons: Adults and Children			b. Does not contain a stairway or ramp required by CBC 10		712.1.9
Building Area		Occupancy	c. Does not penetrate a horizontal assembly that separates fire areas or smoke barriers that separate smoke compartments		
Multipurpose program rooms		Group A-3	d. Is not concealed within the construction of a wall or a floor/ceiling assembly		
Pantry/Storage		Group B	e. Is not open to a corridor in the Group I occupancy		
Storage		S	f. n/a		
4 GENERAL BUILDING HEIGHTS AND AREA/ MIXED USE AND OCCUPANCY		CHAPTER 5	g. Is separated from floor openings and air transfer openings serving other floors by		
4A: BUILDING HEIGHT			3. Elevator shafts		
A. Multiple buildings on Civic Center campus. For code purposes, assumed property lines are used.		503.1.2	1 hr rated for elevators serving A-3 and B Occupancy (less than 4-stories)		713.4
B. Building height is 31'-0" to top of parapet		504.3	C. Smoke Partitions		710
4B: BUILDING AREA			1. Unless stated otherwise, no fire resistive rating is required		710.3
EXPANSION A-3 GSF		Existing LIBRARY-B GSF	2. Continuous to membranes to limit the transfer of smoke and self closing doors.		710.4
TOTALS			D. Hoistway opening protection is required except at the level of exit discharge. The opening protection shall be provided by additional door comply with smoke and draft control requirements.		3006.2
4C: ALLOWABLE AREA AND HEIGHT			E. Penetrations		3006.3
A. Table 504.3 Allowable building heights above grade plane			1. Through penetration fire stop systems protecting wall penetrations shall have an F rating equal to the rated wall		714.3.1.2
Occupancy Group A sprinklered with area increase, Type IIA: 65 feet			2. Through penetration fire stop systems protecting rated horizontal assemblies not in a wall shall have an F and a T rating of 1 hour or equal to the rated assembly		714.4.1.1.2
B. Table 504.4 Allowable number of stories			F. Concealed Spaces		718
Occupancy A Group, S with area increase, Type IIA: 3 stories			8 INTERIOR FINISH		CHAPTER 8
C. Table 506.2: Allowable area factor in square feet			A. Wall and ceiling finishes classified by tests in accordance with ASTM E-84		803.1.1
Occupancy Group A-3, SM without height increase: 46,500 SF			Classification		Smoke Developed
D. Mixed occupancy of Group A-3 and B.			C. Wall and Ceiling Finish Requirements		803
E. Frontage Increase: Not used			Group		Interior exit stairways, interior exit ramps and passageways ^{a,b}
F. Base Allowable area determination: Mix occupancy, Nonseparated, multistory building, with most restrictive use of Group A-3			A-3		B
A _u = [A _s + (NSX U)] X S _u			B		B
A _u = [46,500 + (5632 X0)] X 2 = 93,000			C		C
G. Complies			D		D
4D: FIRE ACCESS			E		E
A. Maximum distance from fire lane to any point on building elevation = 150 feet. Increased distances allowed for sprinklered buildings with the approval of the Fire Marshal.			F		F

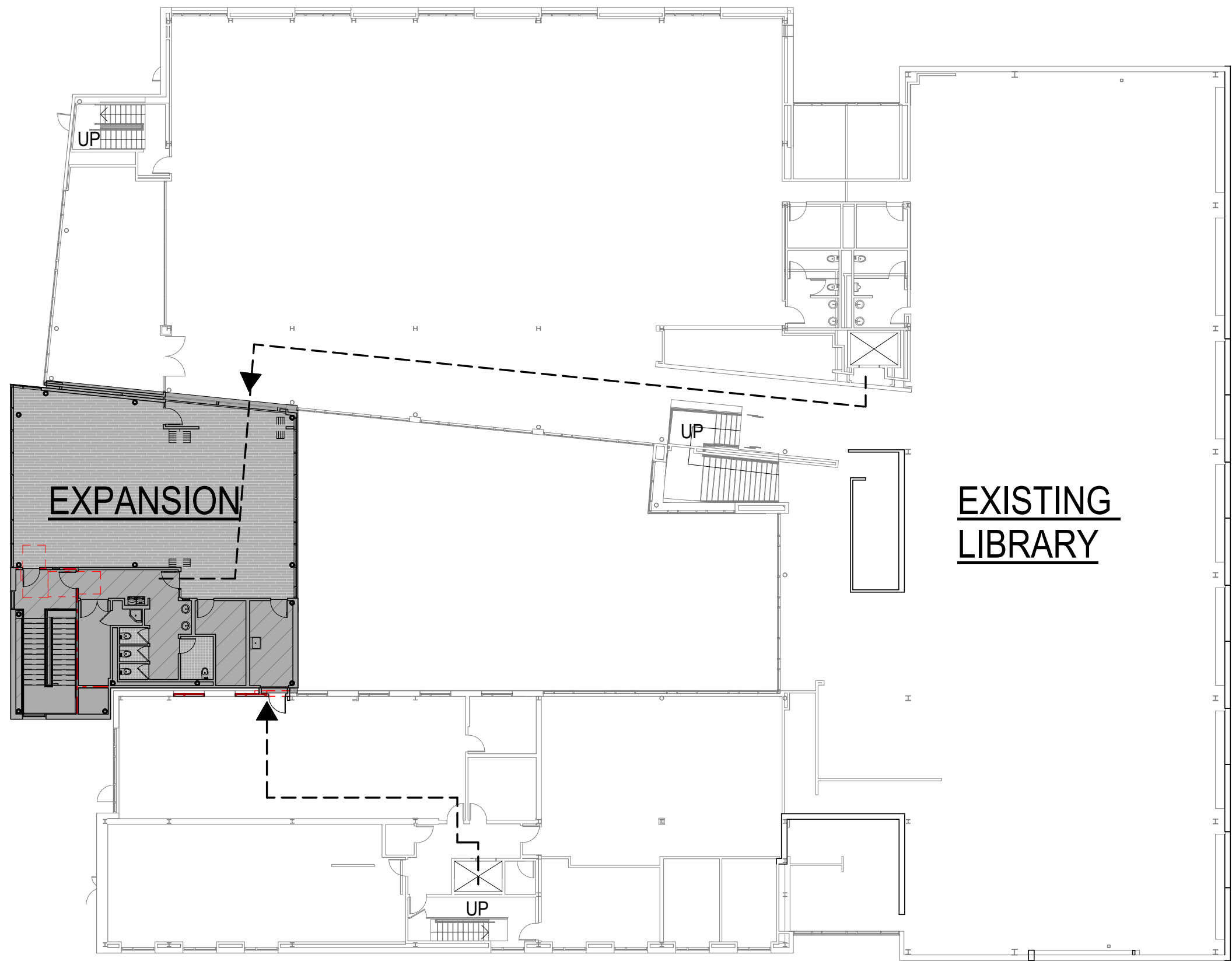
PLUMBING FIXTURE CALCULATIONS

CPC 2019 PLUMBING FIXTURE CALCULATIONS-CUPERTINO LIBRARY EXPANSION																		
FLOOR LEVEL*	TYPE OF OCCUPANCY (see CPC Table 422.1)	FACTORS AND CALCULATIONS					FIXTURE COUNT PER CPC TABLE 422.1											COMMENTS
		TOTAL SQ. FT. (net, this floor) [see CPC Table A]	OCCUPANT LOAD FACTOR: Occ's/sq. ft. (see CPC Table A)	NUMBER OF FIXED SEATS, GROUP A OCCUPANCIES	OCCUPANT LOAD FACTOR: Occ's/sear (see CPC Table A)	TOTAL OCCUPANT LOAD (this occupancy, rounded up)	GENDER LOAD FACTOR (half total occ. is women, half is men)	NUMBER OF WOMEN (1/2 total occ. rounded up)	NUMBER OF MEN (1/2 total occ. rounded up)	WOMEN'S CLOSETS	MEN'S WATER CLOSETS	URINALS	WOMEN'S LAVS	MEN'S LAVS	DRINKING FOUNTAINS (if any req'd: one high and one low, minimum.)	SERVICE SINK OR LAUNDRY TRAY (**only 1 total per building required)	BATH/TUBS OR SHOWERS	
	Group A-3: Conference rooms, museums, libraries, lecture halls, lounges, gyms (without spectator seating); places of worship	1622	1/30	N/A	N/A	55												
	Group A-3 fixed seating: Conference rooms, museums, libraries, lecture halls, lounges, places of worship	N/A	N/A		0.5	0									0.22**	N/A	Table 422.1 Women's WC's: Big increases in fix count, at 101 and 201 women occupants	
TOTAL LEVEL	TOTAL GROUP A-3 OCCUPANCY					55	0.5	27.5	27.5			1.10	0.78	0.14	0.28	0.14	2 1 1 1 1 1 2 1 0	

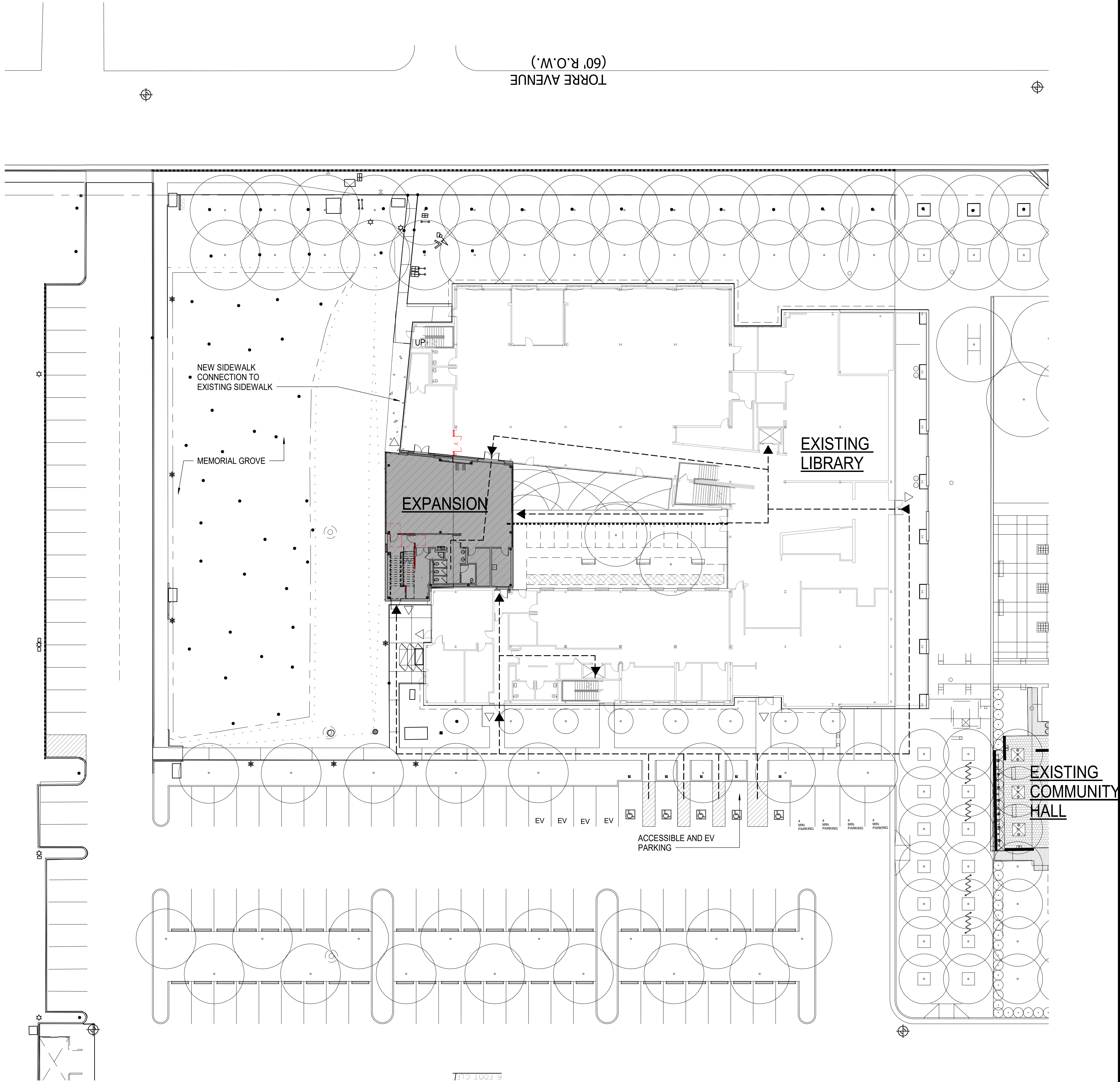
CPC 2019 PLUMBING FIXTURE CALCULATIONS-CUPERTINO LIBRARY EXPANSION																		
FLOOR LEVEL*	TYPE OF OCCUPANCY (see CPC Table 422.1)	FACTORS AND CALCULATIONS					FIXTURE COUNT PER CPC TABLE 422.1											COMMENTS
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	Group A-3: Conference rooms, museums, libraries, lecture halls, lounges, gyms (without spectator seating); places of worship	1512	1/30	N/A	N/A	51												
	Group A-3 fixed seating: Conference rooms, museums, libraries, lecture halls, lounges, places of worship	N/A	N/A		0.5	0									0.20**	N/A	Table 422.1 Women's WC's: Big increases in fix count, at 101 and 201 women occupants	
TOTAL LEVEL	TOTAL GROUP A-3 OCCUPANCY					51	0.5	25.5	25.5			1.02	0.76	0.13	0.26	0.13	2 1 1 1 1 1 2 1 0	



2 ACCESSIBILITY Level 2
G0.03 SCALE: 1" = 20'-0"



3 ACCESSIBILITY Level 1
G0.03 SCALE: 1" = 20'-0"



LEGEND

- ▲ ACCESSIBLE BUILDING ENTRANCES
- △ ACCESSIBLE BUILDING EXITS
- ACCESSIBLE PATH OF TRAVEL
- ♿ ACCESSIBLE FEATURE

CUPERTINO
PUBLIC
LIBRARY
EXPANSION

10800 TORRE AVENUE
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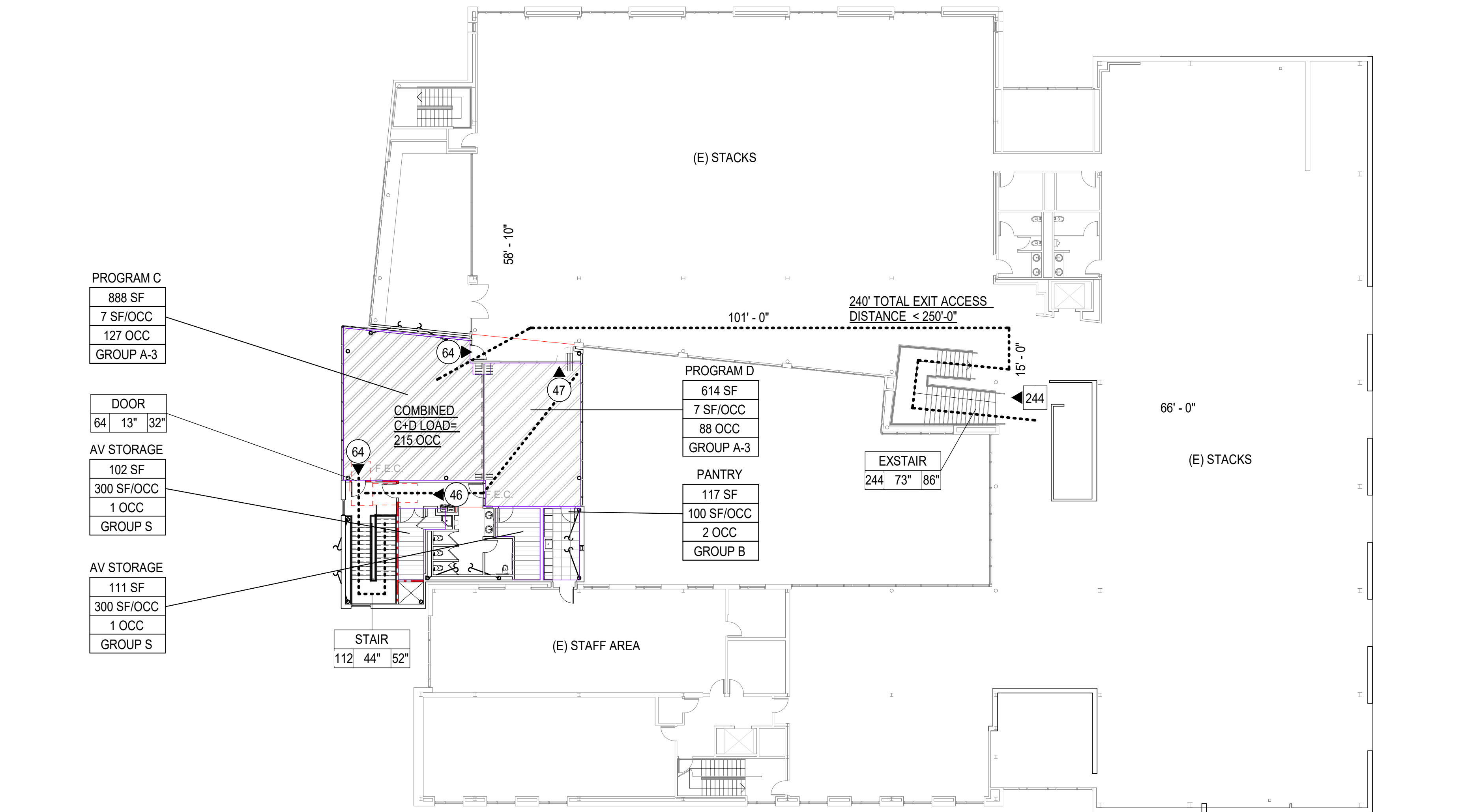
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Sheet Title
**ACCESSIBILITY
SITE PLAN**

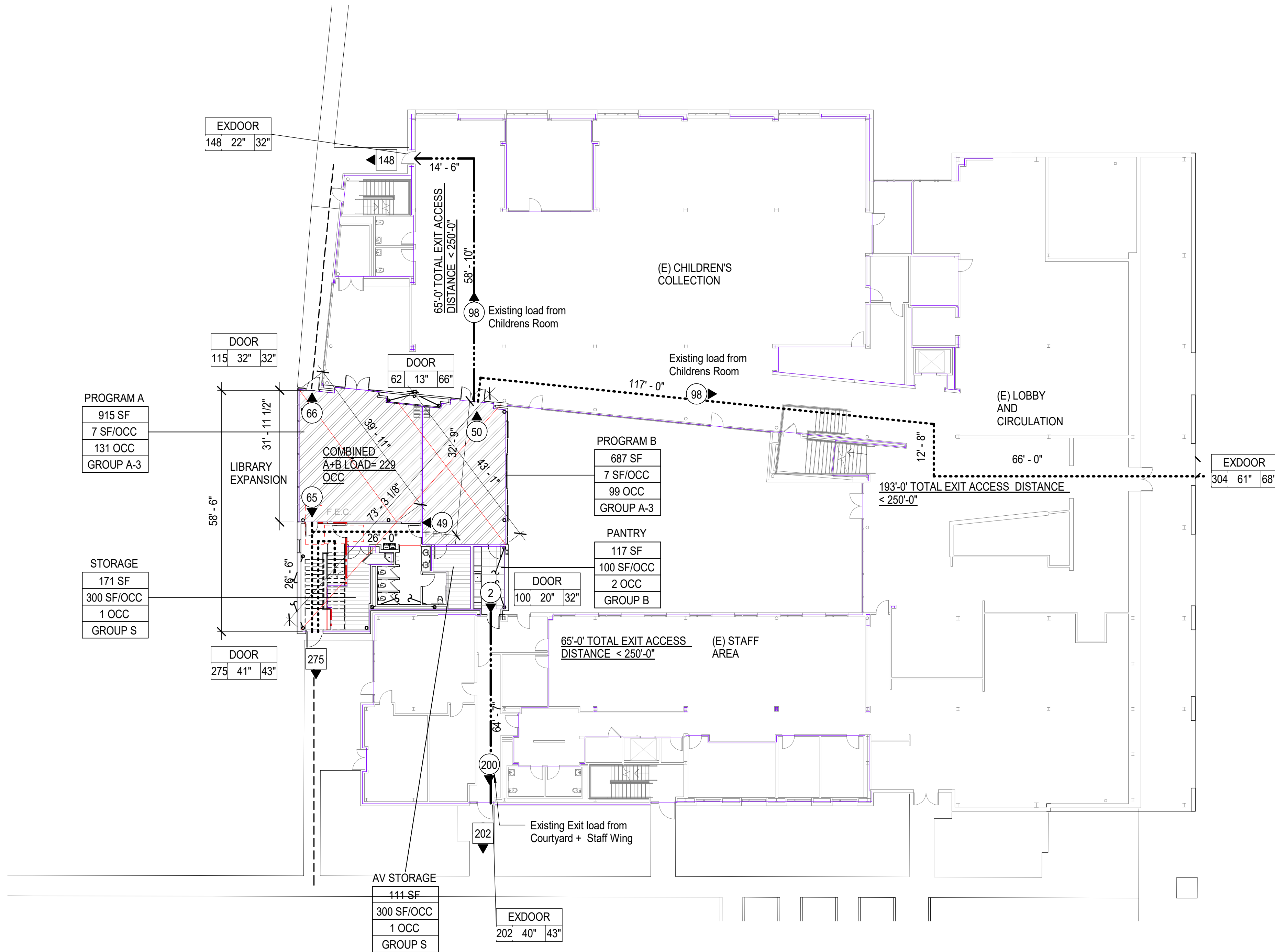
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G0.03

4 FIRE LIFE SAFETY PLAN - LEVEL 2
G0.04 SCALE: 1/16" = 1'-0"



2 FIRE LIFE SAFETY PLAN - LEVEL 1
G0.04 SCALE: 1/16" = 1'-0"



FLOOR AREA AND OCCUPANCY LOAD

FLOOR AREA EXCLUDING SHAFTS AND EXITS:
3972 SF

OCCUPANT LOAD:
4 OCCUPANTS - BUSINESS AREAS
450 OCCUPANTS - ACCESSORY UNCONCENTRATED ASSEMBLY WITHOUT FIXED SEATS
4 OCCUPANTS - ACCESSORY STORAGE, MECHANICAL EQUIPMENT ROOMS

458 TOTAL OCCUPANTS

NOTES:
CBC 2019, SECTION 303.1 ASSEMBLY AREAS EXCEPTION 2:
A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANCY LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

LIFE SAFETY AND EXITING LEGEND

DOOR
XX XX XX
DOOR NUMBER
PROVIDED WIDTH
REQUIRED WIDTH (0.2 FACTOR)
DOOR LOAD

STAIR
XX XX XX
STAIR NUMBER
PROVIDED WIDTH
REQUIRED WIDTH (0.3 FACTOR)
STAIR LOAD

AREA NAME
150 SF
XX SF/OCC
XX OCC
AREA
FLOOR AREA PER OCCUPANT
OCCUPANT COUNT

0
ACCUMULATED LOAD AND TRAVEL DIRECTION
0
OCCUPANT LOAD WITHIN INDIVIDUAL SPACE AND TRAVEL DISTANCE
START POINT OF TRAVEL
X' - X' ->
COMMON PATH OF TRAVEL
X' - X' ->
EXIT PATH OF TRAVEL
1 HOUR FIRE BARRIER
2 HOUR FIRE BARRIER (HORIZONTAL EXIT)
EXIT SIGN, SINGLE-SIDED
EXIT SIGN, DOUBLE-SIDED
FEC
FIRE EXTINGUISHER CABINET

FUNCTION OF SPACE	PATTERN	OCCUPANT LOAD FACTOR
ASSEMBLY, UNCONCENTRATED		15 NET
BUSINESS AREAS		100 GROSS
KITCHENS, COMMERCIAL		200 GROSS
LOCKER ROOMS		50 GROSS
MECHANICAL EQUIPMENT ROOM		300 GROSS
STORAGE ROOMS		300 GROSS

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LIFE SAFETY PLAN
AND CODE REVIEW

Sheet Number

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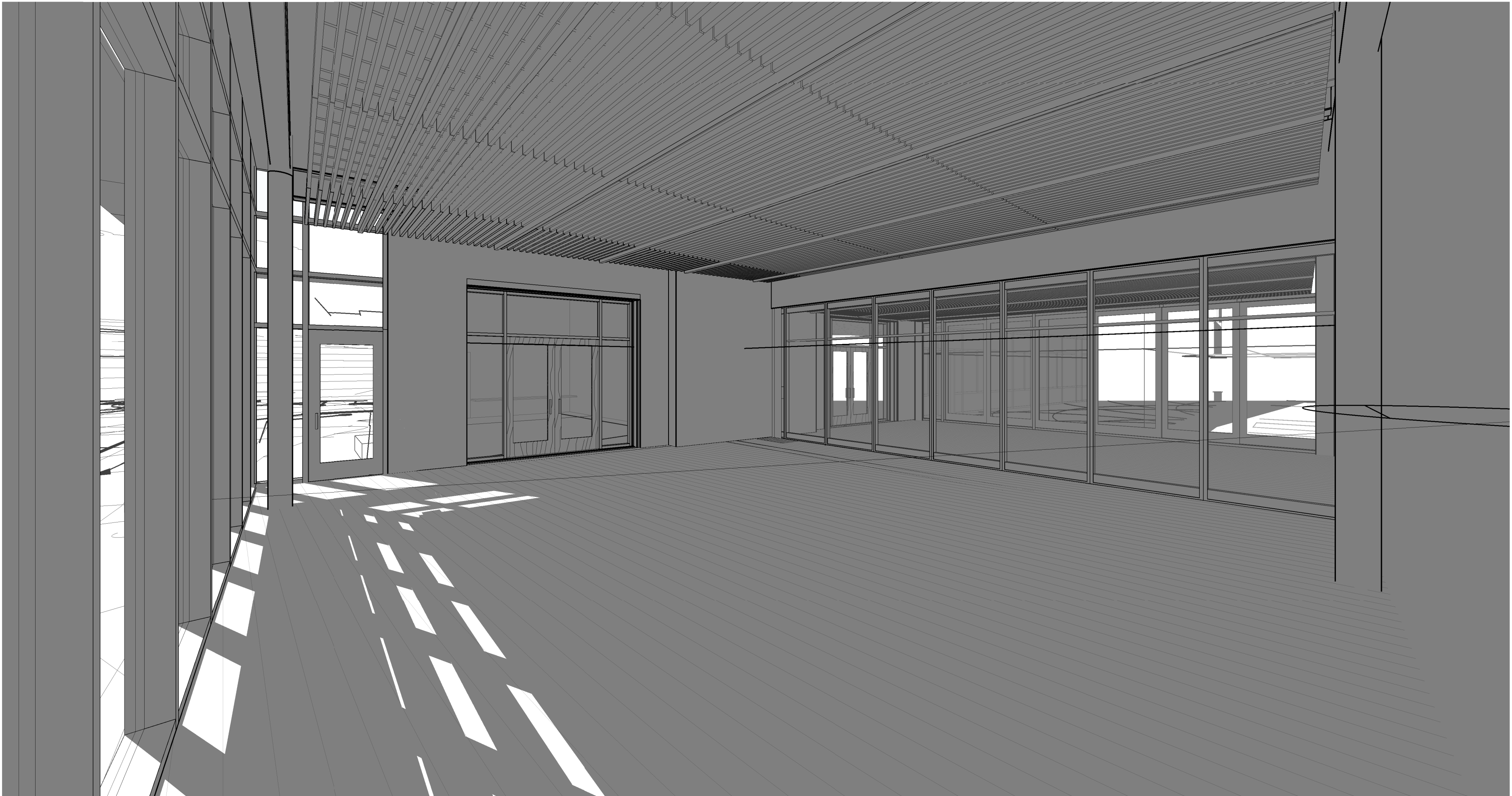
SOUTHEAST CORNER



COURTYARD



SOUTHWEST CORNER



LEVEL 1 - SE CORNER

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Sheet Title

PERSPECTIVE
VIEWS

Sheet Number

G4.01

C-1.0

CONSTRUCTION NOTES

- ALL OFF-SITE CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF CUPERTINO AND THE LATEST CALTRANS STANDARD PLANS & SPECIFICATIONS.
- CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE CITY OF CUPERTINO POLICE AND FIRE DEPARTMENTS.
- CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
- CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
- THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM CITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.
- ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATES (DUST).
- ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
- ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
- THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.
- STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT BE PERMITTED.
- CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.
- CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER OR STORM DRAIN.
- A CONTAINED AND COVERED AREA ON-SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLE OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
- ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER POLLUTION.
- ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
- CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

UTILITY/POTHOLE NOTE

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES AND UTILITIES BY POTHOLING PRIOR TO COMMENCING CONSTRUCTION.

DIMENSIONS

ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.

FLOODZONE

THIS PROJECT IS IN FLOOD ZONE X: AREAS OUTSIDE OF 0.2% ANNUAL CHANCE FLOOD. INFORMATION OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 08050C0209H DATED MAY 18, 2009 PROVIDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

FIRE DESIGN NOTE:

THE CONTRACTOR SHALL DESIGN, PREPARE SHOP DRAWINGS FOR, OBTAIN ALL REQUIRED APPROVALS, AND CONSTRUCT THE FIRE SYSTEM FOR THE PROPOSED PROJECT. CONTRACTOR SHALL HAVE SHOP DRAWINGS STAMPED BY A FIRE PROTECTION ENGINEER AS REQUIRED BY THE LOCAL AUTHORITY.

UNDERGROUND WORK CAUTION

CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. FOR NORTHERN CALIFORNIA DIAL 811 OR (800) 227-2600. FOR OTHER AREAS CALL (800) 642-2444. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.

DEMOLITION NOTES

- CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
- CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
- BACKFILL, ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS AND THE PROJECT SWPPP IF APPLICABLE.
- THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR THEIR AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN/DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE UTILITY OWNER AND ANY AFFECTED PROPERTIES OR BUILDINGS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
- THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR RELOCATED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMITS SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OF WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.
- CONTRACTOR TO DEMOLISH AND REMOVE ALL IRRIGATION IN LANDSCAPE AREAS WITHIN THE LIMIT OF WORK. IF ANY IRRIGATION LINES OR MAINS ARE IN THE LIMIT OF WORK OR ARE DAMAGED THAT SERVE LANDSCAPE TO REMAIN, CONTRACTOR TO RECONNECT OR RELOCATE AT NO ADDITIONAL COST TO OWNER.
- PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTED. REPLACE ANY DAMAGED UTILITY TO REMAIN TO KEEP OPERABLE DURING CONSTRUCTION.
- ALL UTILITY SHUT DOWNS ARE TO BE AVOIDED. IF SHUT DOWNS ARE NECESSARY, CONTRACTOR TO COORDINATE SHUT DOWN WITH UTILITY OWNER WITH 48 HOUR MINIMUM NOTICE.
- ALL EXISTING STORM DRAIN, SANITARY SEWER, AND WATER MAINS THAT SERVE EXISTING BUILDINGS MUST REMAIN OPERABLE DURING CONSTRUCTION. CONTRACTOR TO SET UP TEMPORARY SERVICE OR PUMP AS NECESSARY TO ENSURE UNINTERRUPTED SERVICE.

RECORD DRAWING NOTE

THE CONTRACTOR SHALL KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS, SHOWING EVERY CHANGE FROM ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE CITY ENGINEER AND DEVELOPER'S CIVIL ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

HAZARDOUS MATERIALS NOTE

THERE MAY BE ASBESTOS CONTAINING PIPE AND PIPE INSTALLATION OR OTHER HAZARDOUS MATERIALS WITHIN THE PROJECT AREA. THE CONTRACTOR WILL PROTECT ALL HAZARDOUS CONTAINING ITEMS DURING THE EXECUTION OF THIS CONTRACT. ADDITIONALLY THE CONTRACTOR WILL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES NEAR HAZARDOUS MATERIALS.

CONSTRUCTION FENCE

- CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
- CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
- CONSTRUCTION FENCE ADDRESSED IN THESE NOTES IS ONLY FOR VISUAL CONFORMANCE OF THIS CONSTRUCTION SITE TO THE CITY OF CUPERTINO STANDARDS. CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL FENCING, BARRICADES OR OTHER SAFETY DEVICES TO KEEP THE SITE SECURE AND SAFE.

PAVEMENT SECTIONS

- SEE STRUCTURAL DRAWINGS FOR BUILDING SLAB SECTIONS AND PAD PREPARATIONS.
- SEE GEOTECHNICAL REPORT FOR ALL FLATWORK AND VEHICULAR PAVEMENT SECTIONS AND BASE REQUIREMENTS.
- THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL ON-SITE UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER AND/OR DEVELOPER'S CIVIL ENGINEER.
- ALL PAVING SHALL BE IN CONFORMANCE WITH SECTION 26 "AGGREGATE BASE" AND SECTION 39 "ASPHALT CONCRETE" PER LATEST EDITION OF CALTRANS STANDARD SPECIFICATIONS.

APPLICABLE FIRE CODE NOTES

APPLICABLE CODES AS OF JANUARY 1, 2020:

- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2019 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2019 EDITION INTERNATIONAL BUILDING CODE)
2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (2017 EDITION NATIONAL ELECTRICAL CODE)
2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2018 EDITION UNIFORM MECHANICAL CODE)
2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2018 EDITION UNIFORM PLUMBING CODE)
2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2016 CALIFORNIA ELEVATOR SAFETY ORDERS (CHAPTER 4, TITLE 8, CCR)
2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS:

- NFPA 13 – AUTOMATIC SPRINKLER SYSTEMS – 2019 EDITION
NFPA 14 – STANDPIPE SYSTEMS – 2019 EDITION
NFPA 17A – WET CHEMICAL SYSTEMS – 2017 EDITION
NFPA 24 – PRIVATE FIRE MAINS – 2019 EDITION
NFPA 72 – NATIONAL FIRE ALARM CODE – 2019 EDITION
NFPA 253 – CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS – 2019 EDITION
NFPA 20 – STATIONARY PUMPS FOR FIRE PROTECTION – 2019 EDITION
NFPA 99 – HEALTH CARE FACILITIES – 2019 EDITION

UNDERGROUND FIRE SERVICE TO FIRE HYDRANTS REQUIREMENTS:

- NFPA 24, SEC. 10.10.2.1: UNDERGROUND PIPING, FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD-IN CONNECTIONS TO THE SYSTEM RISER, INCLUDING ALL HYDRANTS, SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO THE DOWNSTREAM SYSTEM PIPING. THE FLUSHING OPERATION SHALL BE CONTINUED FOR A SUFFICIENT TIME TO ENSURE THOROUGH CLEANING. THE MINIMUM RATE OF FLOW SHALL BE NOT LESS THAN THAT SPECIFIED IN SECTION 10.10.2.1.3.
NFPA 24, SEC. 10.10.2.1.3: THE MINIMUM RATE OF FLOW SHALL BE NO LESS THAN ONE OF THE FOLLOWING: (1) HYDRAULICALLY CALCULATED WATER DEMAND FLOW RATE OF THE SYSTEM, INCLUDING ANY HOSE REQUIREMENTS; (2) FLOW NECESSARY TO PROVIDE A VELOCITY OF 10 FT/SEC (3.1 M/SEC) IN ACCORDANCE WITH TABLE 10.10.2.1.3; (3) MAXIMUM FLOW RATE AVAILABLE TO THE SYSTEM UNDER THE CONDITIONS.
NFPA 24, SEC. 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI (13.8 BAR) OR 50 PSI (3.5 BAR) IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT + 5 PSI (0.35 BAR) FOR 2 HOURS.
NFPA 24, SEC. 10.10.1: THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING: (1) NOTIFYING THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S REPRESENTATIVE OF THE TIME AND DATE TESTING IS TO BE PERFORMED; (2) PERFORMING ALL REQUIRED ACCEPTANCE TESTS; (3) COMPLETING AND SIGNING THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S) SHOWN IN FIGURE 10.10.1.
NFPA 24, CHAPTER 10.4.3: IN THOSE LOCATIONS WHERE FROST IS NOT A FACTOR, THE DEPTH OF COVER SHALL NOT BE LESS THAN 2 ½ FEET (0.8 M) TO PREVENT MECHANICAL DAMAGE.

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2 AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2015 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

- NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) (2016 EDITION)
NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) (2016 EDITION)
NFPA 17 – STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS (2017 EDITION)
NFPA 17A – STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS (2017 EDITION)
NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION (2016 EDITION)
NFPA 22 – STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION (2013 EDITION)
NFPA 24 – STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) (2016 EDITION)
NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) (2016 EDITION)
NFPA 80 – STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES (2016 EDITION)
NFPA 2001 – STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) (2015 EDITION)
UL 300 – STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT (2005) (R2010)
UL 464 – AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES (2003 EDITION)
UL 521 – STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (1999 EDITION)
UL 1971 – STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED. (2002) (R2010)
ICC 300 – STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS (2017 EDITION)

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

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

*ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2020 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2019 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 8, 2019.

GENERAL UTILITY NOTES

- ALL TRENCHES SHALL BE BACK FILLED PER THE GEOTECHNICAL REPORT OR UTILITY OWNERS STANDARD DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (TRANSFORMER, GAS METER, ETC.) PLANNING DEPARTMENT MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH ANY REVISIONS TO APPROVED LOCATIONS.
- CATHODIC PROTECTION SHALL BE REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE IN CONTACT WITH THE SOIL, UNLESS SPECIFICALLY DEEMED UNNECESSARY BY THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE TO FULLY ENGINEER AND INSTALL THIS SYSTEM AND COORDINATE ANODE AND TEST STATION LOCATIONS WITH THE UTILITY OWNER.
- COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
- UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CLIENT, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE PUBLIC RECORDS, EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
- CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORK UP-STREAM, AND SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY.
- EXISTING UTILITY CROSSINGS OF NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. GAS, WATER AND SEWER SERVICE, LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH OF ALL THE UTILITY CROSSING (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
- VERTICAL SEPARATION REQUIREMENTS (UNLESS SPECIFICALLY SHOWN OTHERWISE ON PLANS):

A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE, MEASURED FROM OUTSIDE EDGE OF PIPE, SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.

WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THAN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS, WHERE FEASIBLE.

- HORIZONTAL SEPARATION REQUIREMENTS (UNLESS SPECIFICALLY SHOWN OTHERWISE ON PLANS):

A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET, EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER MAIN PIPELINES SHALL BE 10' MINIMUM.

A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.
- ANY EXISTING UNDERGROUND UTILITY LINES TO BE ABANDONED, SHALL BE REMOVED FROM WITHIN THE PROPOSED BUILDING ENVELOPE AND THEIR ENDS CAPPED OUTSIDE OF THE BUILDING ENVELOPE.
- ANY PIPING TO BE ABANDONED IN PLACE SHALL BE FILLED WITH GROUT AND CAPPED.

GRADING NOTES

- PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM ALL STRUCTURES BY SLOPING ALL HARDSCAPE SURFACES AT 2% AND LANDSCAPE SURFACES AT 5% AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.
- STRUCTURE WALLS: PER CBC 2304.11.2.2 (WOOD SUPPORTED BY FOUNDATION) PROVIDE 8" MINIMUM CLEAR TO EXTERIOR GRADE.
- ALL FILL, IMPORT SOILS AND GRADING SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT PERFORMED BY TREADWELL & ROLLO, DATED NOVEMBER 2, 2002, PROJECT NUMBER 3169.01.
- COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND CONTROL MINOR) AND SITE LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT, BASECOURSE OR CONCRETE SURFACING. SEE LANDSCAPING AND SITE ELECTRICAL DRAWINGS.
- ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05'. HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO FLOOD OR NOT MEET REQUIREMENTS IN GRADING NOTE #1 OF THE ADA REQUIREMENTS BELOW. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE CLIENT.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.

- ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.

- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.

- THE RISE/ RUN/ STEP COUNT IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND BUILDING CODE COMPLIANCE PRIOR TO ANY WORK.
- AREAS LACKING TOPOGRAPHIC INFORMATION (ELEVATIONS) HAVE BEEN INTERPOLATED USING STANDARD ENGINEERING METHODS. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AT CONFORMS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT BACK ANY DISCREPANCIES TO THE CIVIL ENGINEER.

- ADJUST ANY MANHOLE OR UTILITY STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.

DUST CONTROL NOTES

- WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR IN ORDER TO INSURE PROPER CONTROL OF BLOWING DUST FOR THE PROJECT.
- ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEEP ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR, OR TO THE SATISFACTION OF THE CITY'S DEPARTMENT OF PUBLIC WORKS.
- ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPULINS OR OTHER EFFECTIVE COVERS.
- WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL DEMONSTRATE DUST SUPPRESSION MEASURES, SUCH AS REGULAR WATERING, WHICH SHALL BE IMPLEMENTED TO REDUCE EMISSIONS DURING CONSTRUCTION AND GRADING IN A MANNER MEETING THE APPROVAL OF THE CONSTRUCTION MANAGER. THIS SHALL ASSIST IN REDUCING SHORT-TERM IMPACTS FROM PARTICLES WHICH COULD RESULT IN NUISANCES THAT ARE PROHIBITED BY RULE 403 (FUGITIVE DUST).
- GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH THE PROJECT SWPPP (IF ONE EXISTS) OR AS APPLICABLE PER LOCAL REGULATIONS AT ALL TIMES. THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST IN THE EVENT THAT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST. THE CLIENT RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.

GENERAL SITE NOTES

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
- ALL WORK ON-SITE AND IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
- PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO THE ENGINEER.
- DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT IN THAT AREA AND CONTACT THE CITY'S ENGINEER/INSPECTOR IMMEDIATELY. CONTRACTOR SHALL NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE CLIENT, THE CONSULTING ENGINEER AND THE CITY 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 CLIENT OR THE CONSULTING ENGINEER.

TREE PROTECTION

- PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
- PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIALS, AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER/INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT DIE DUE TO LACK OF MAINTENANCE.
- REFER TO LANDSCAPE PLANS, SPECIFICATIONS OR ARBORIST REPORT FOR TREE PROTECTION REQUIREMENTS AND MEASURES.

PROJECT SITE MAINTENANCE

- REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
- SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SODAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEEP MANUALLY.
- CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
- NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
- ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.

ADA NOTES

- ALL HARDSCAPE ALONG THE ADA PATH OF TRAVEL SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE.
- SLOPED WALKS ALONG THE DESIGNATED ADA PATH OF TRAVEL SHALL NOT EXCEED A SLOPE OF 1:20 (5%) WITHOUT HANDRAILS. THE MAXIMUM SLOPE WITH HANDRAILS OR FOR CURB RAMPS IS 1:12 (8.33%). LEVEL LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL SLOPED WALKWAYS AND RAMPS.
- WALKWAYS ON ANY PATH OF TRAVEL SHALL HAVE A MINIMUM WIDTH OF 48". WALKWAYS AND ADA PARKING STALLS OR LOADING ZONES SHALL HAVE A 2% MAXIMUM CROSS SLOPE.
- A LEVEL LANDING (2% MAX SLOPE) SHALL BE PROVIDED AT ALL ACCESSIBLE ENTRANCES TO BUILDINGS. THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPENS ONTO THE LANDING.
- RAMPS GREATER THAN 1:20 SLOPE AND EXCEEDING 30" IN VERTICAL ELEVATION CHANGE SHALL HAVE INTERMEDIATE LEVEL LANDINGS.

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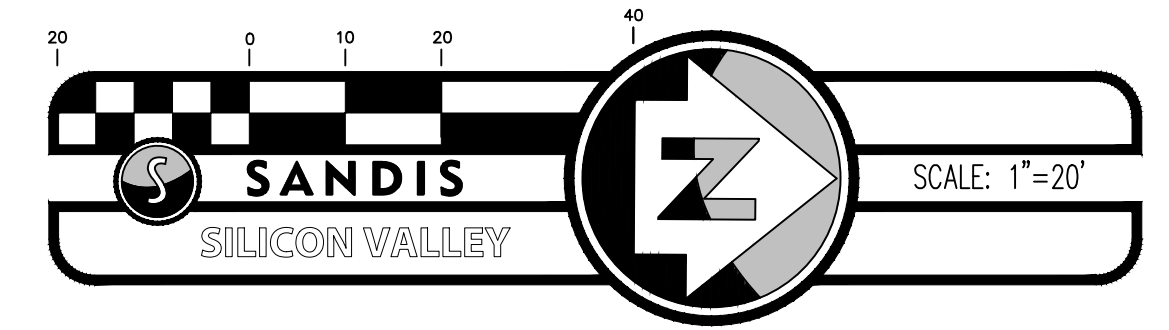
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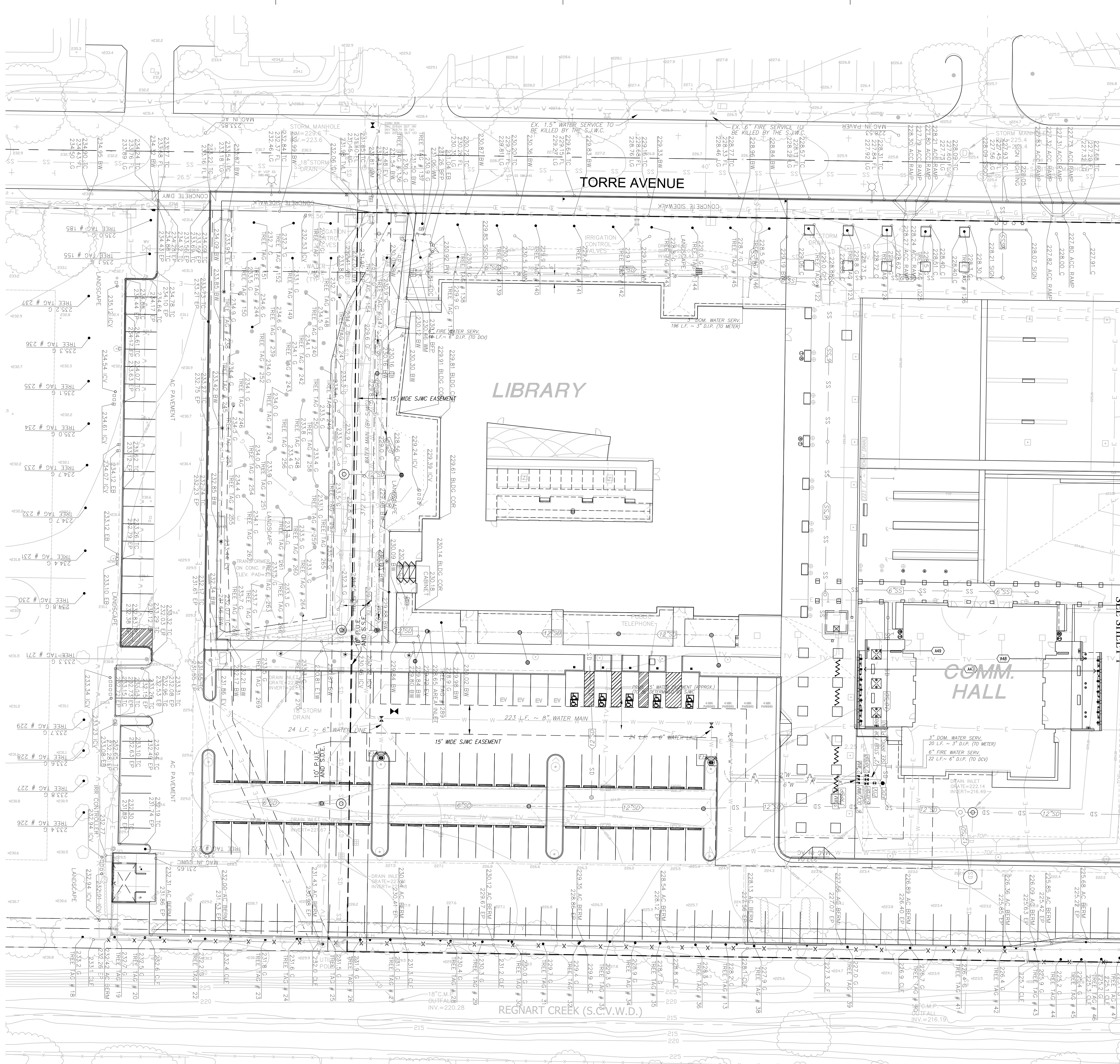


SURVEY NOTES

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON TOPOGRAPHIC SURVEYS COMPLETED BY OTHERS. THESE SURVEYS INCLUDE:
-- TOPOGRAPHIC SURVEY BY NELSON ENGINEERING, DATED MAY 2002
-- TOPOGRAPHIC SURVEY BY BKF ENGINEERS, DATED AUGUST 14 2015
2. UTILITIES SHOWN ON THIS SURVEY ARE BASED ON DESIGN FILES. NO WARRANTIES ARE EXPRESSED OR IMPLIED CONCERNING THE EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OF ANY UTILITY EXISTING ON THE SITE, WHETHER PRIVATE, MUNICIPAL, OR PUBLIC OWNED.
3. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT BACK TO CIVIL ENGINEER ANY DISCREPANCIES WITH PLAN PRIOR TO COMMENCEMENT OF WORK.
4. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE UNLESS OTHERWISE STATED ON THE MAP.

UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.



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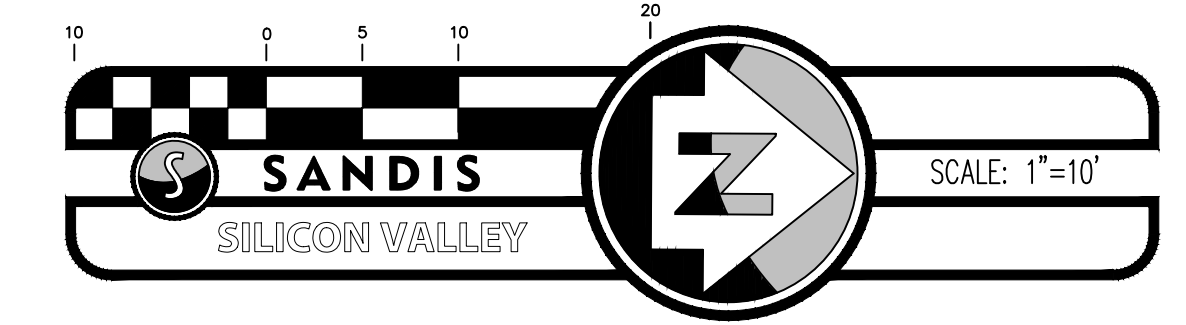
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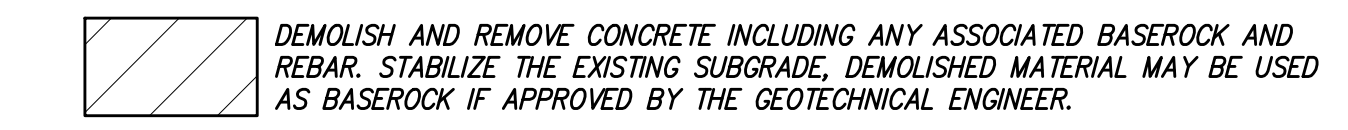
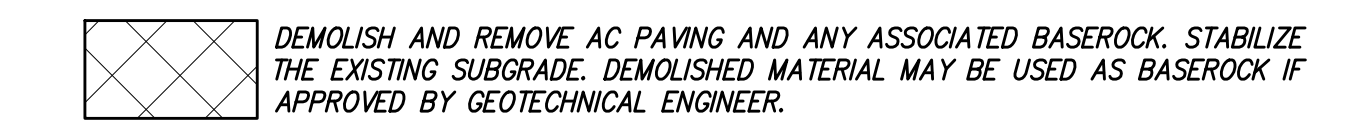
DEMOLITION PLAN

Sheet Number

C-3.0



LEGEND



■ ■ ■ LIMIT OF WORK LINE

— SAWCUT — SAWCUT LINE, CONTRACTOR SHALL SAWCUT WITH A NEAT, CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO SAWCUT LINE SHOWN ON PLAN.

~~## ## ## ## REMOVE EXISTING CURB AND GUTTER.~~

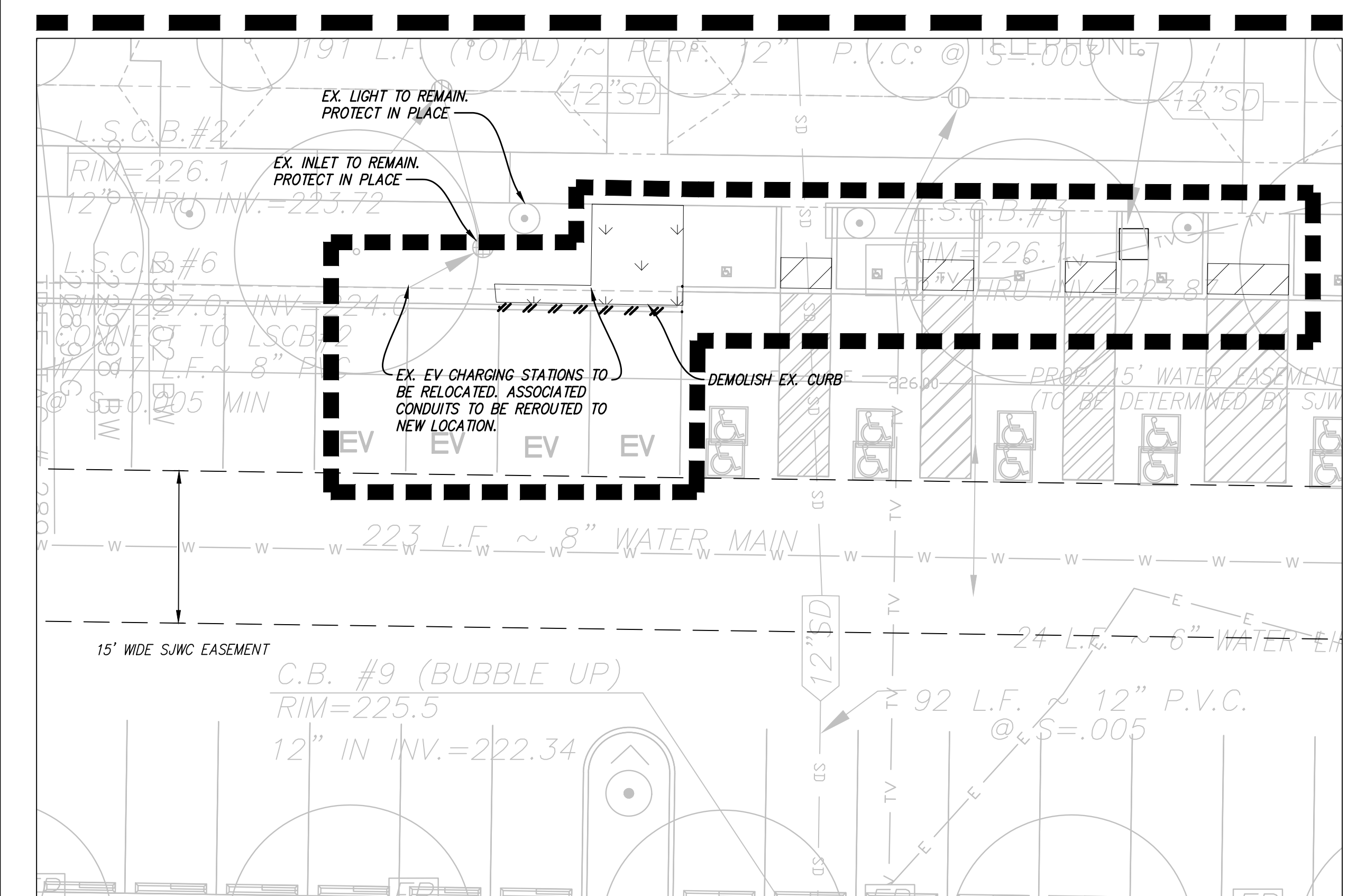
-X-X-X-X- REMOVE EXISTING UTILITY, CUT AND CAP AT LOCATION SHOWN PER UTILITY OWNER'S REQUIREMENTS.

E— CAP EXISTING UTILITY WHERE SHOWN PER UTILITY OWNERS SPECIFICATIONS AND REQUIREMENTS. IF PRESSURIZED UTILITY CONTRACTOR SHALL HAVE COMPETENT PROFESSIONAL DESIGN PIPE RESTRAINTS.

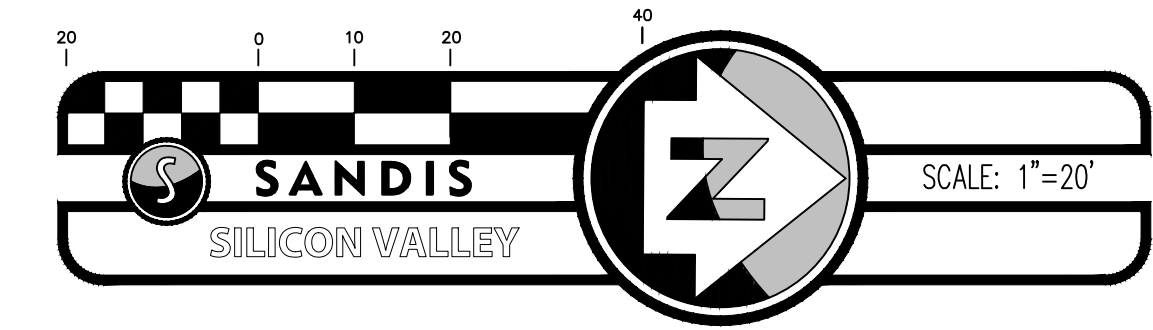
X REMOVE EXISTING TREE AND ROOTBALL. COORDINATE WITH LANDSCAPE ARCHITECT AND PROJECT ARBORIST PRIOR TO REMOVING ANY TREES.

 EXISTING TREE TO REMAIN, PROTECT IN PLACE. SEE LANDSCAPE PLANS AND ARBORIST REPORT FOR TREE PROTECTION DETAILS.

MATCH LINE - SEE LEFT

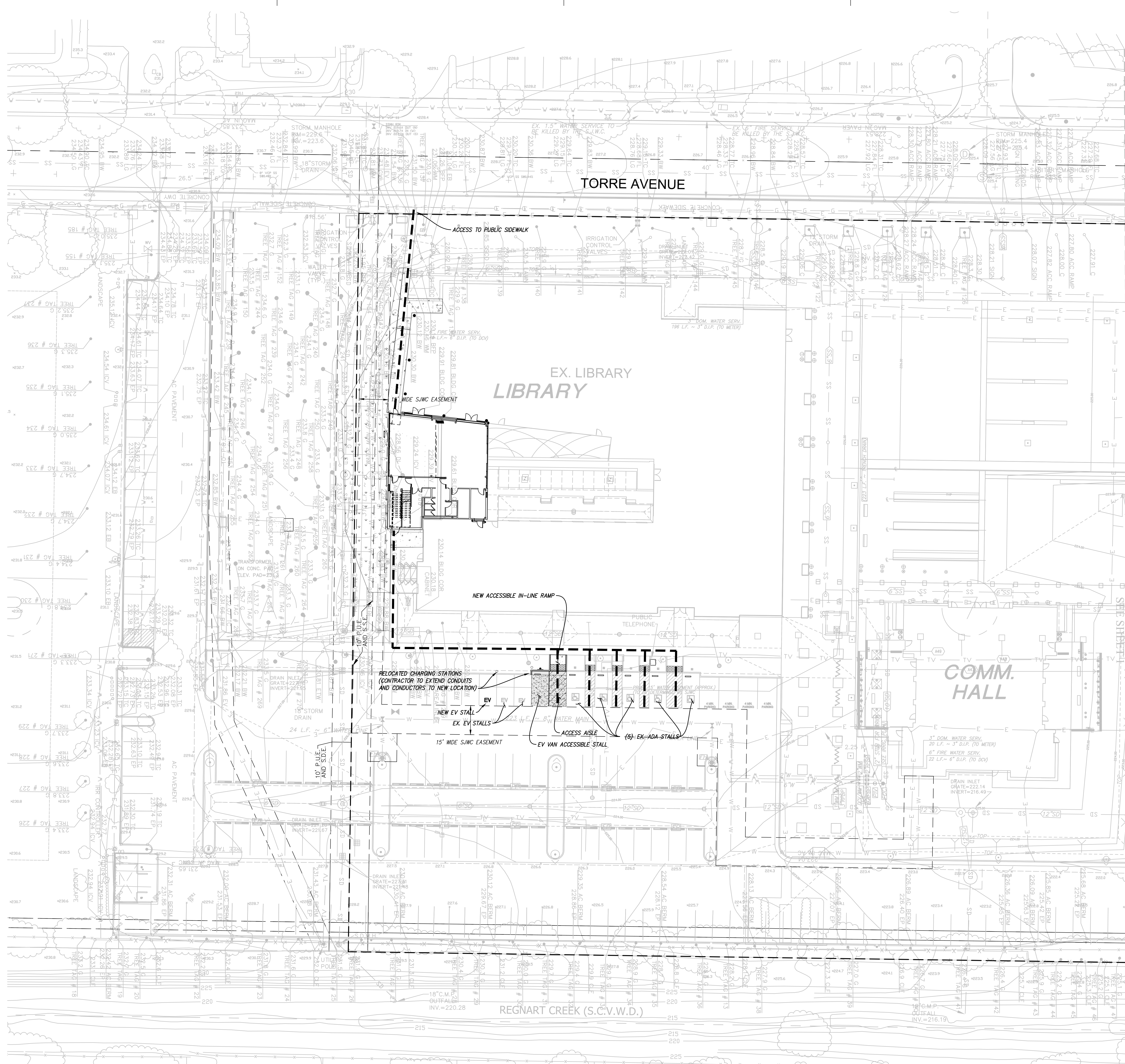


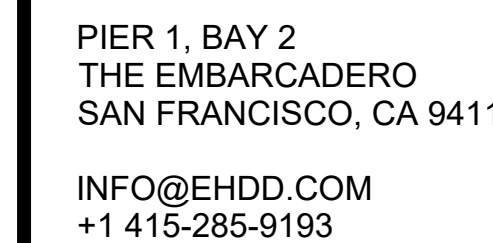
MATCH LINE - SEE RIGHT



LEGEND

PEDESTRIAN ACCESS PATH





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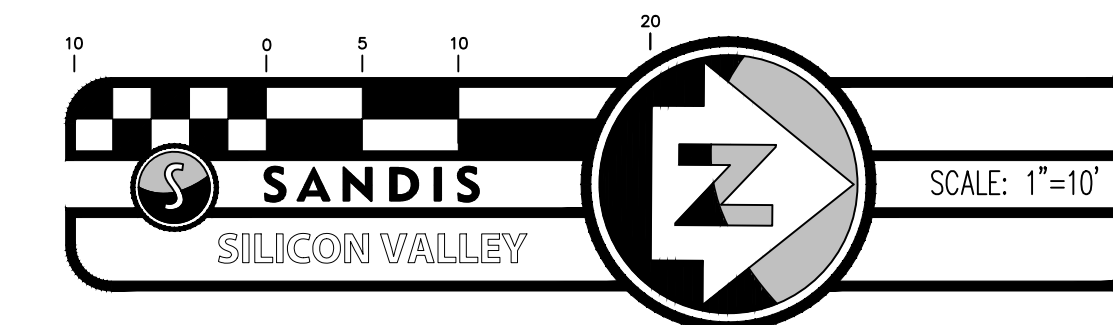
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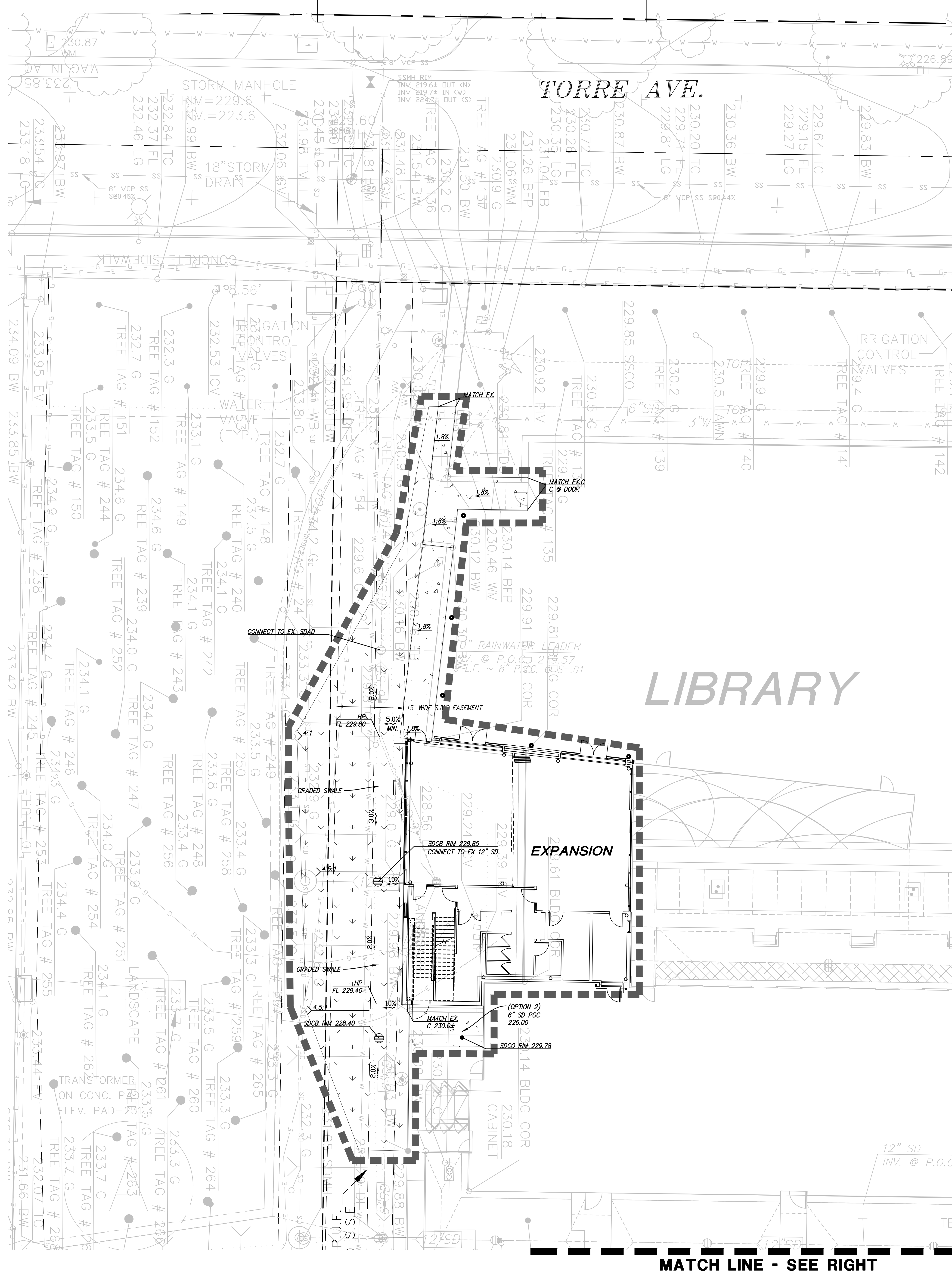
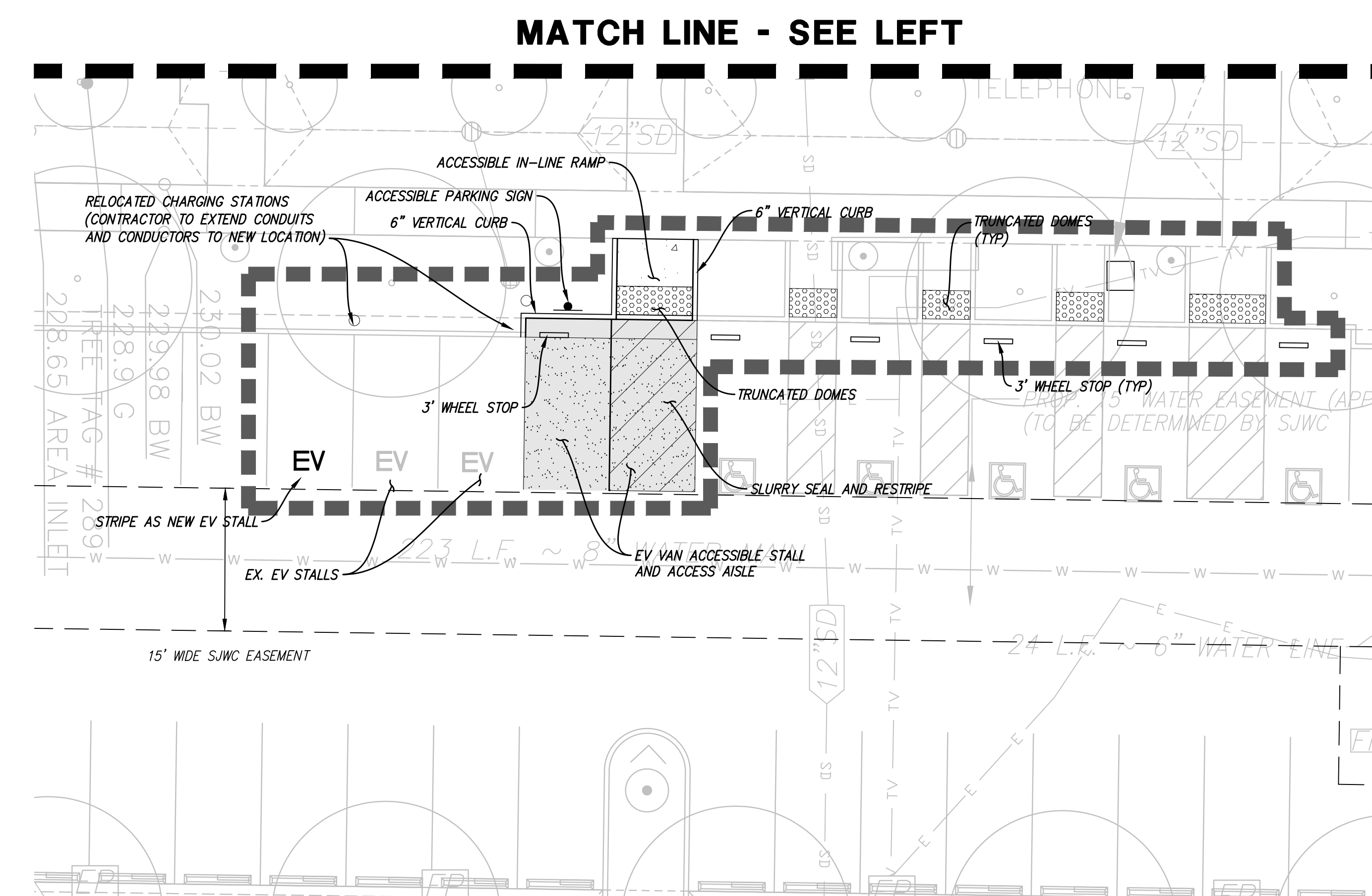
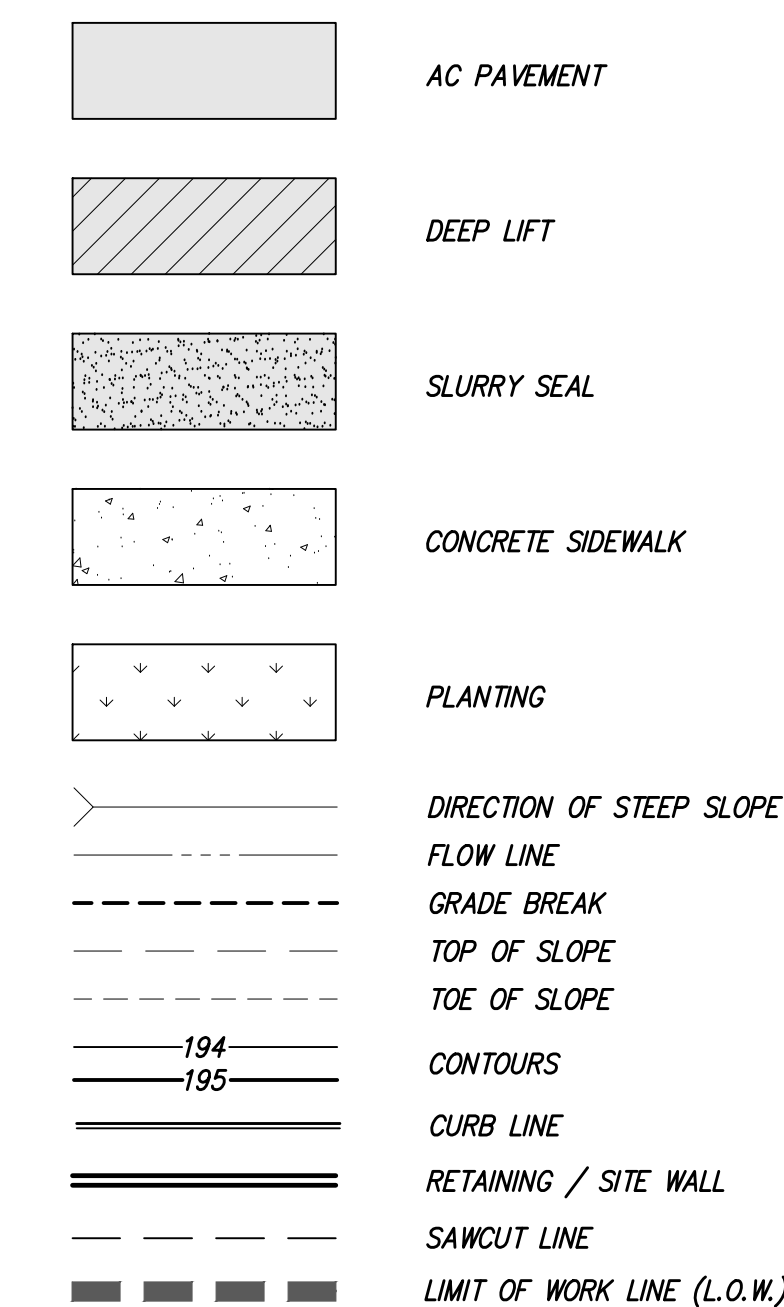
GRADING & DRAINAGE PLAN

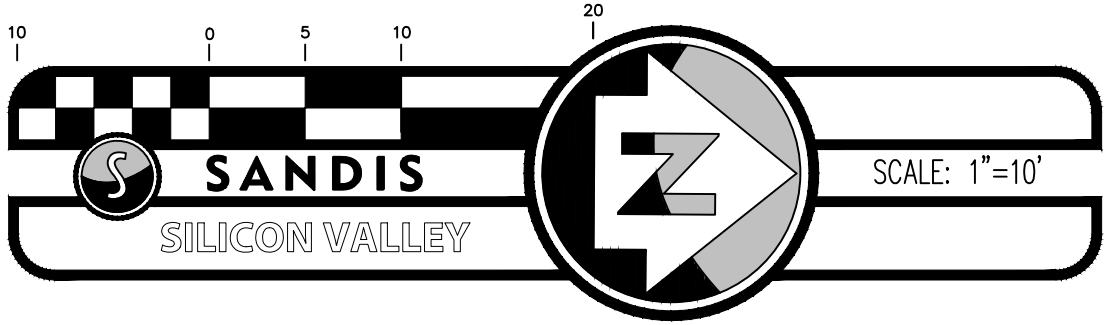
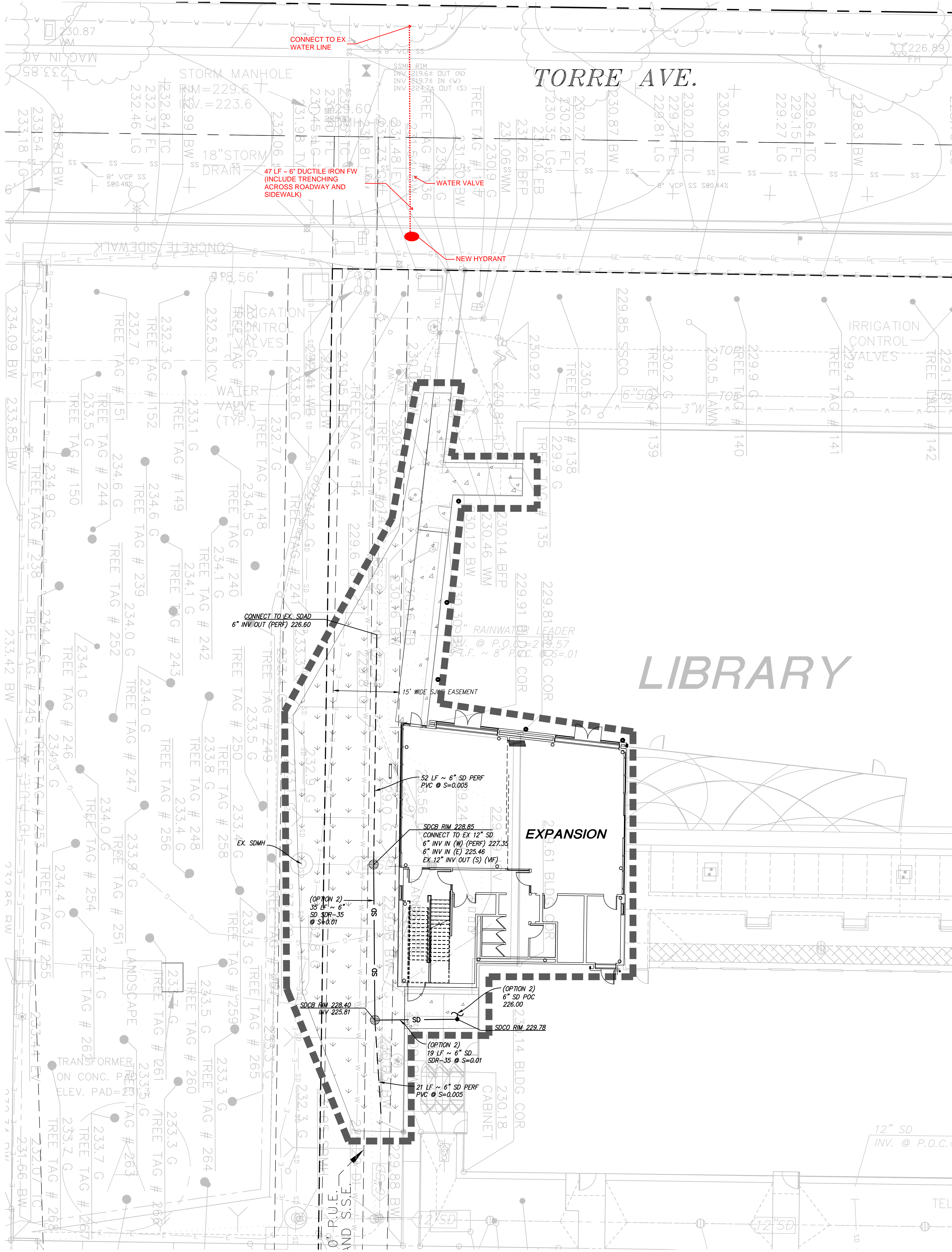
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C-5.0



LEGEND





LEGEND

- LIMIT OF WORK LINE (L.O.W.)
- - - PROPERTY LINE
- - - SD STORM DRAIN LINE
- - - PERFORATED PIPE
- - - WTR WATER LINE
- CLEAN OUT
- CATCH BASIN

UTILITY CONNECTION OPTIONS

DEPENDING ON THE EXISTING LIBRARY'S PLUMBING SYSTEM, THERE ARE TWO OPTIONS FOR SANITARY AND STORM DRAIN CONNECTIONS.

- OPTION 1: STORM DRAIN FOR THE EXPANSION WILL BE CONNECTED INTERNALLY TO THE EXISTING LIBRARY'S STORM LINE. SEE PLUMBING PLANS FOR ROUTING.
- OPTION 2: STORM DRAIN FOR THE EXPANSION WILL BE A NEW LATERAL FROM THE EXPANSION CONNECTING TO THE EXISTING 12" STORM LINE. SEE THIS SHEET FOR ROUTING.

STORM DRAIN NOTES

- PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 GREEN PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELLS AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS, 45° ELBOWS OR LONG SWEEP ELBOWS. 90° ELBOWS AND TEE'S ARE PROHIBITED.
- PRIVATE STORM DRAIN LINE 6-INCH THROUGH 12-INCH WITH LESS THAN THREE (3) FEET OF COVER IN VEHICULAR TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) C900, RATED FOR 150 PSI CLASS PIPE. PROVIDE AND INSTALL "STORM DRAIN" MARKER TAPE FOR THE ENTIRE LENGTH OF PIPE TRENCH. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, OBTUSE ELBOWS OR LONG SWEEP ELBOWS. 90° ELBOWS AND TEE'S ARE PROHIBITED.
- ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
- ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
- FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- INSTALL SEPARATE SUB-DRAIN SYSTEM BEHIND RETAINING WALLS PER GEOTECHNICAL REPORT AND CONNECT TO STORM DRAIN SYSTEM AS SHOWN ON PLANS.
- ALL DOWN SPOUTS SHALL DISCHARGE DIRECTLY ON TO ADJACENT PERVIOUS SURFACES OR SPLASH BLOCKS UNLESS OTHERWISE NOTED ON PLANS. SEE ARCHITECTURE PLANS FOR EXACT LOCATION OF THE DOWN SPOUTS.

GENERAL NOTES

- CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING UTILITY INVERTS AT ALL UTILITY CROSSINGS.

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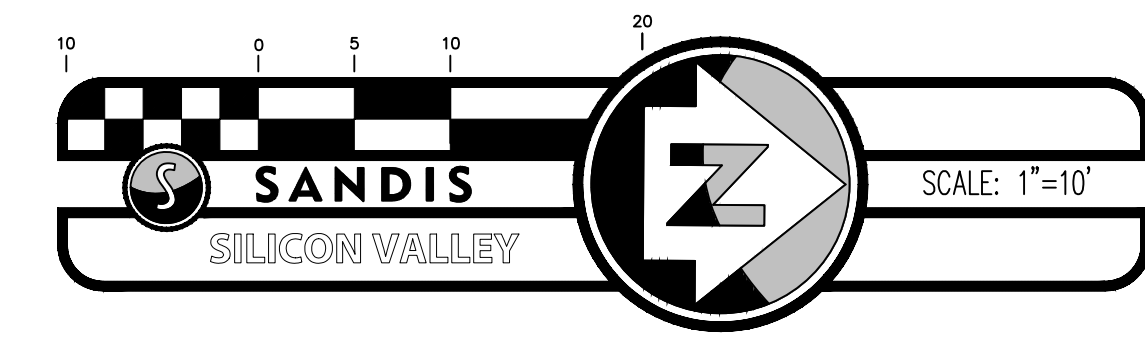
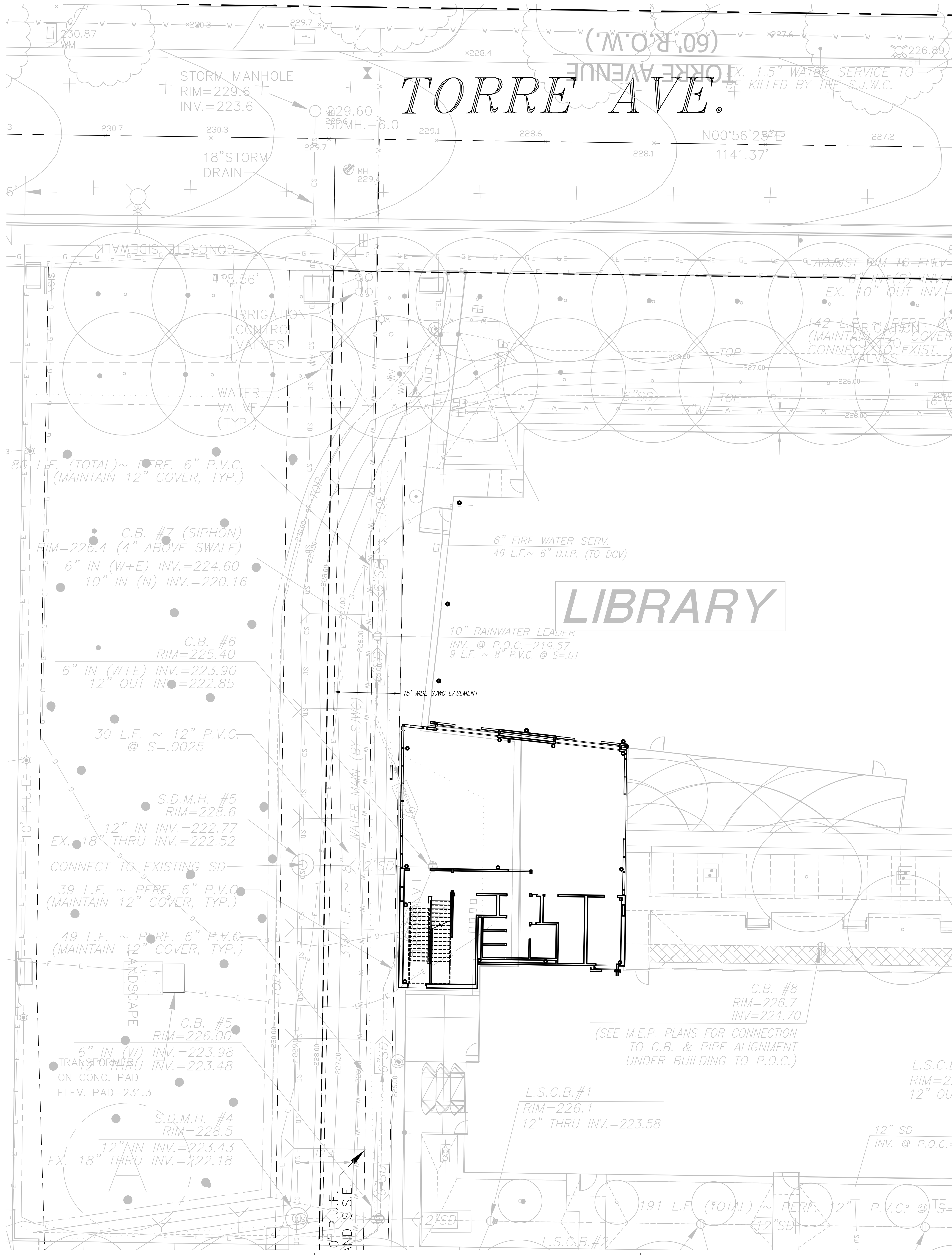
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Sheet Title

UTILITY PLAN

Sheet Number

C-6.0



LEGEND	
	STABILIZED EXIT XX XXXX
	CONCRETE WASHOUT
	SPILL KIT
	PORTABLE RESTROOM
	CONSTRUCTION TRAILER
	PATH OF SURFACE DRAINAGE
	FIBER ROLL XX XXXX
	SILT FENCE XX XXXX
	GRAVEL BAG BERM XX XXXX
	INLET PROTECTION XX XXXX
	SITE STORMWATER DISCHARGE POINT / SAMPLING LOCATION XX
	APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE - AREA TO COMPLY WITH REQUIREMENTS IN PROJECT SWPPP
	ROLLED EROSION CONTROL PRODUCT XX XXXX
	SOIL AMENDMENT AREA XX XXXX

WATER POLLUTION CONTROL NOTES:

- A. THIS PLAN IS FOR STORMWATER POLLUTION CONTROL DURING CONSTRUCTION IF NO SWPPP IS REQUIRED. IF A SWPPP FOR THE PROJECT HAS BEEN ISSUED THE PROJECT SWPPP OVERRIDES ANYTHING SHOWN ON THIS PLAN.
- B. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
- C. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
- D. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
- E. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
- F. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
- G. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED IN PROJECT SWPPP.
- H. CONTRACTOR TO INSTALL RUN-ON AND RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
- I. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW MATS, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
- J. STOCKPILE LOCATION(S) TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WITH SITE QSP.
- K. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE, ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
- L. STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
- L. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

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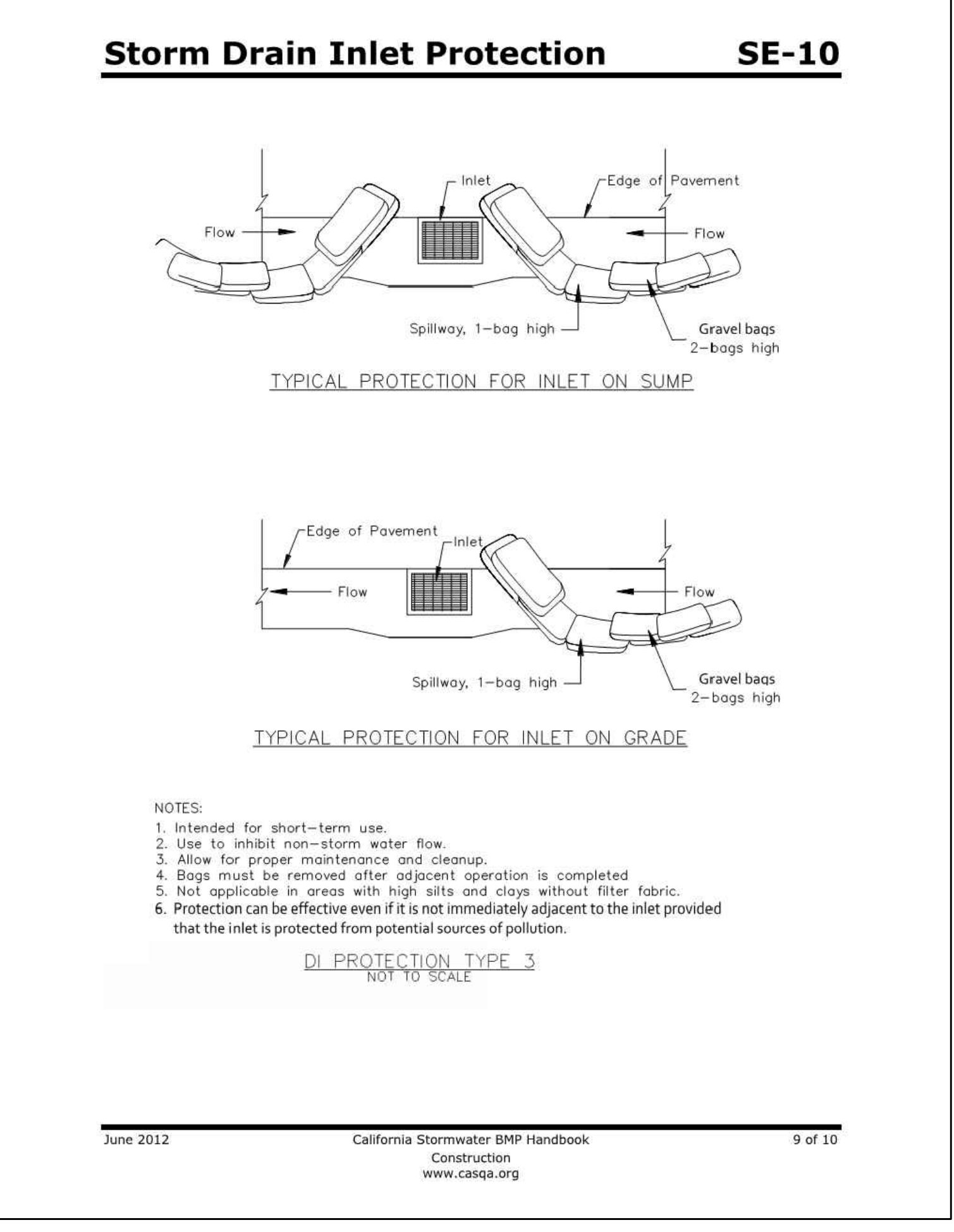
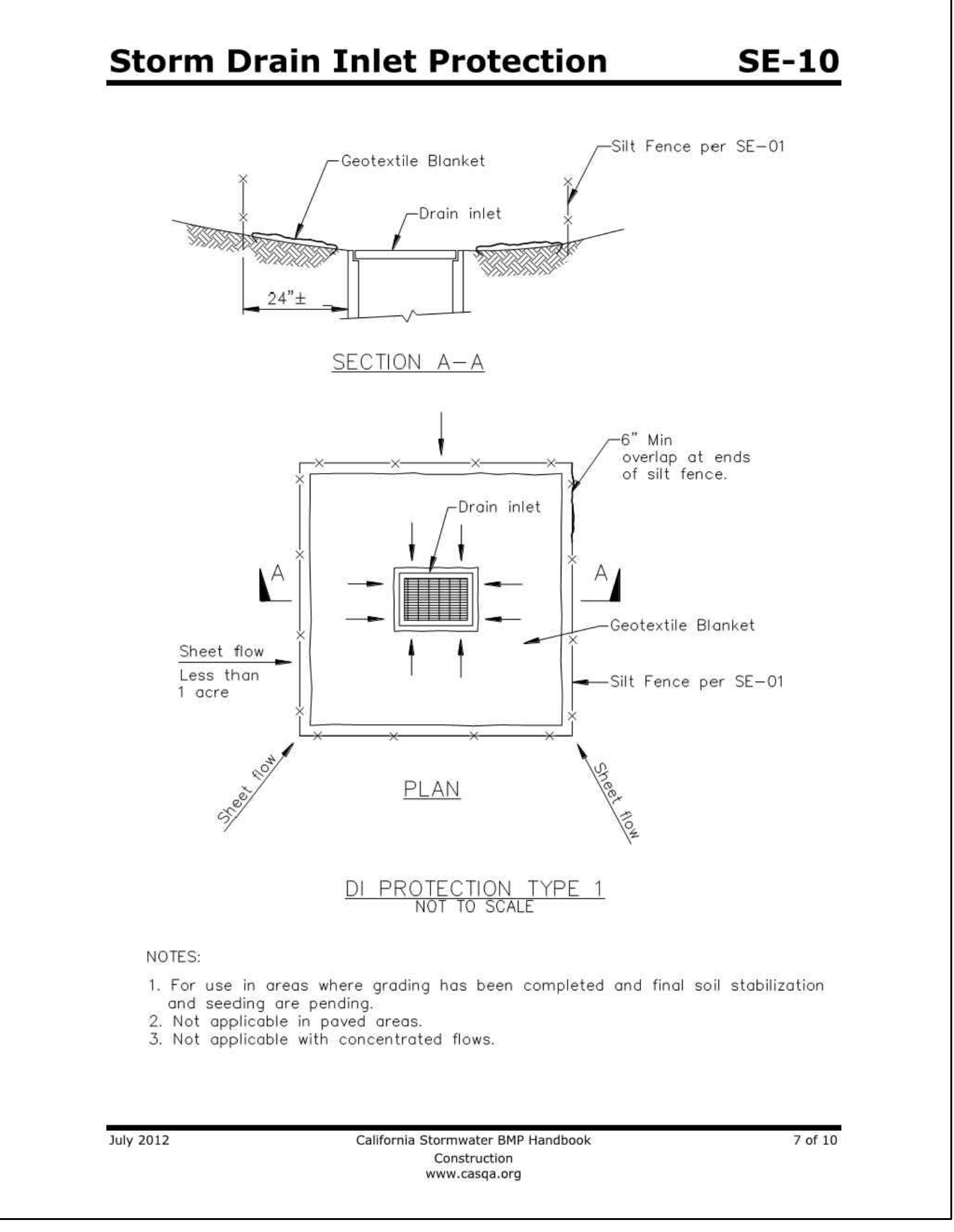
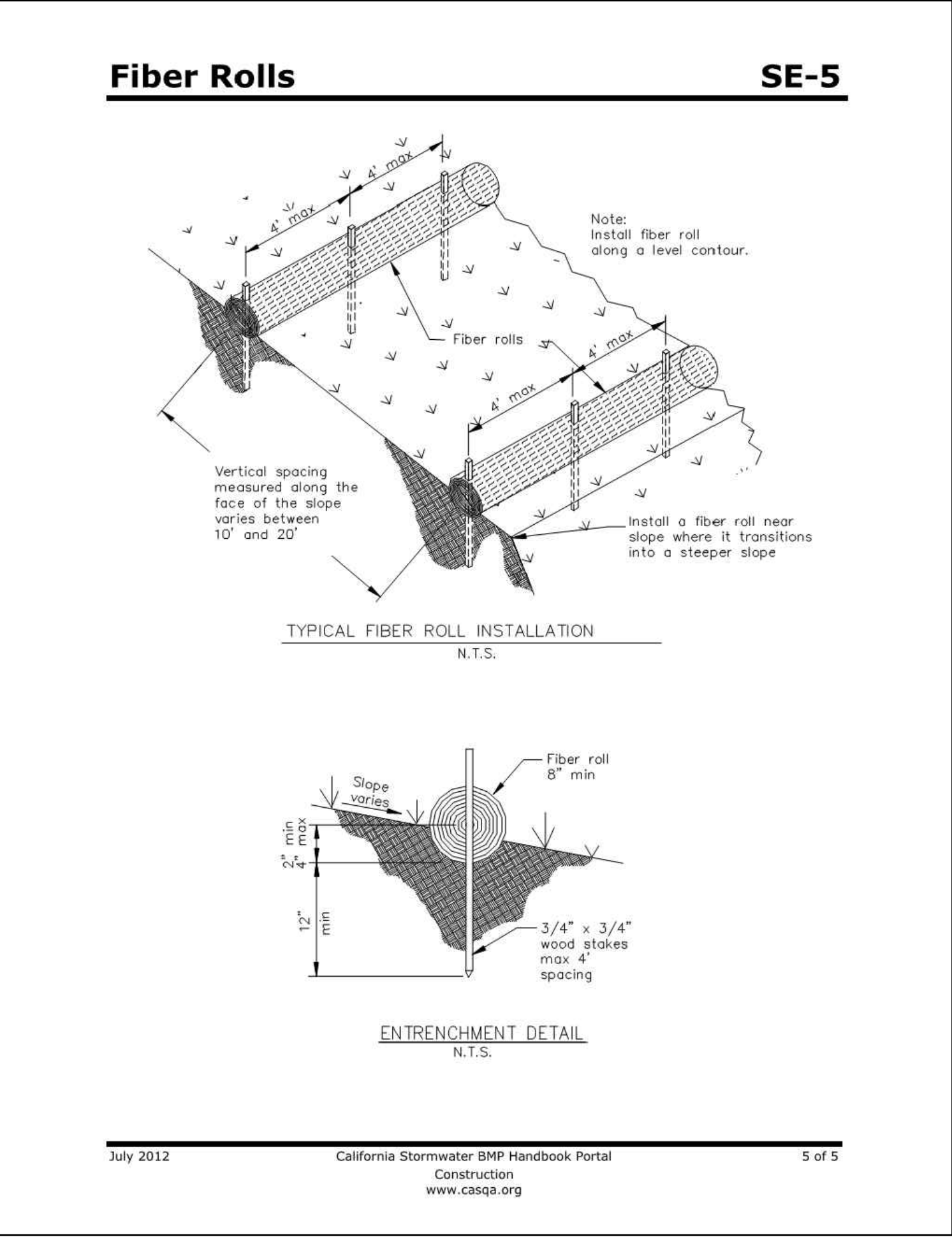
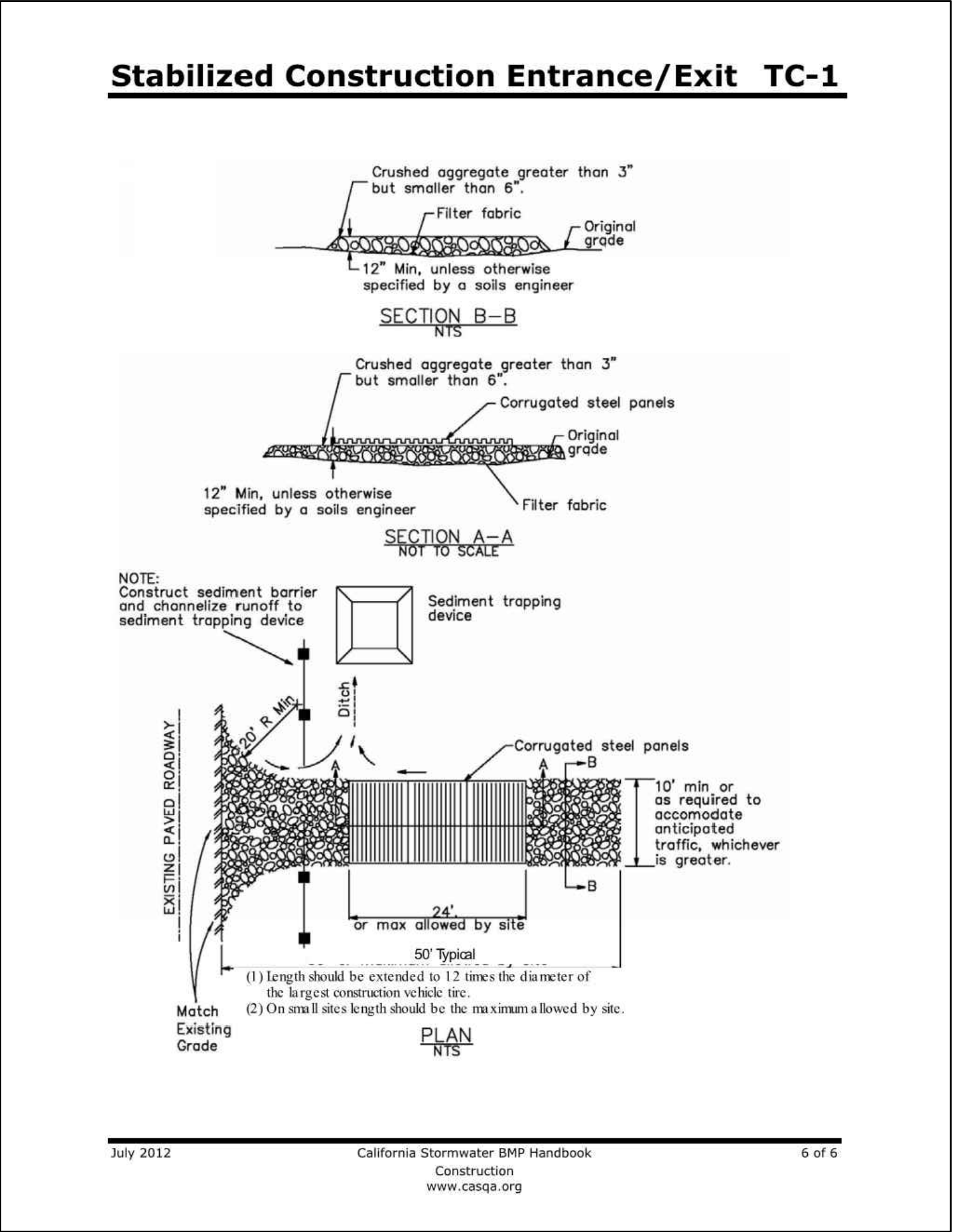
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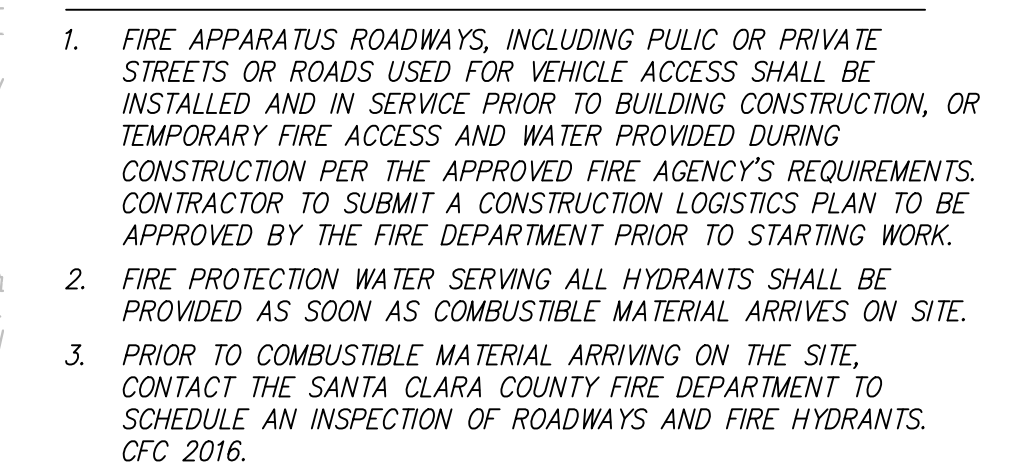
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EROSION CONTROL PLAN

Sheet Number
C-8.0





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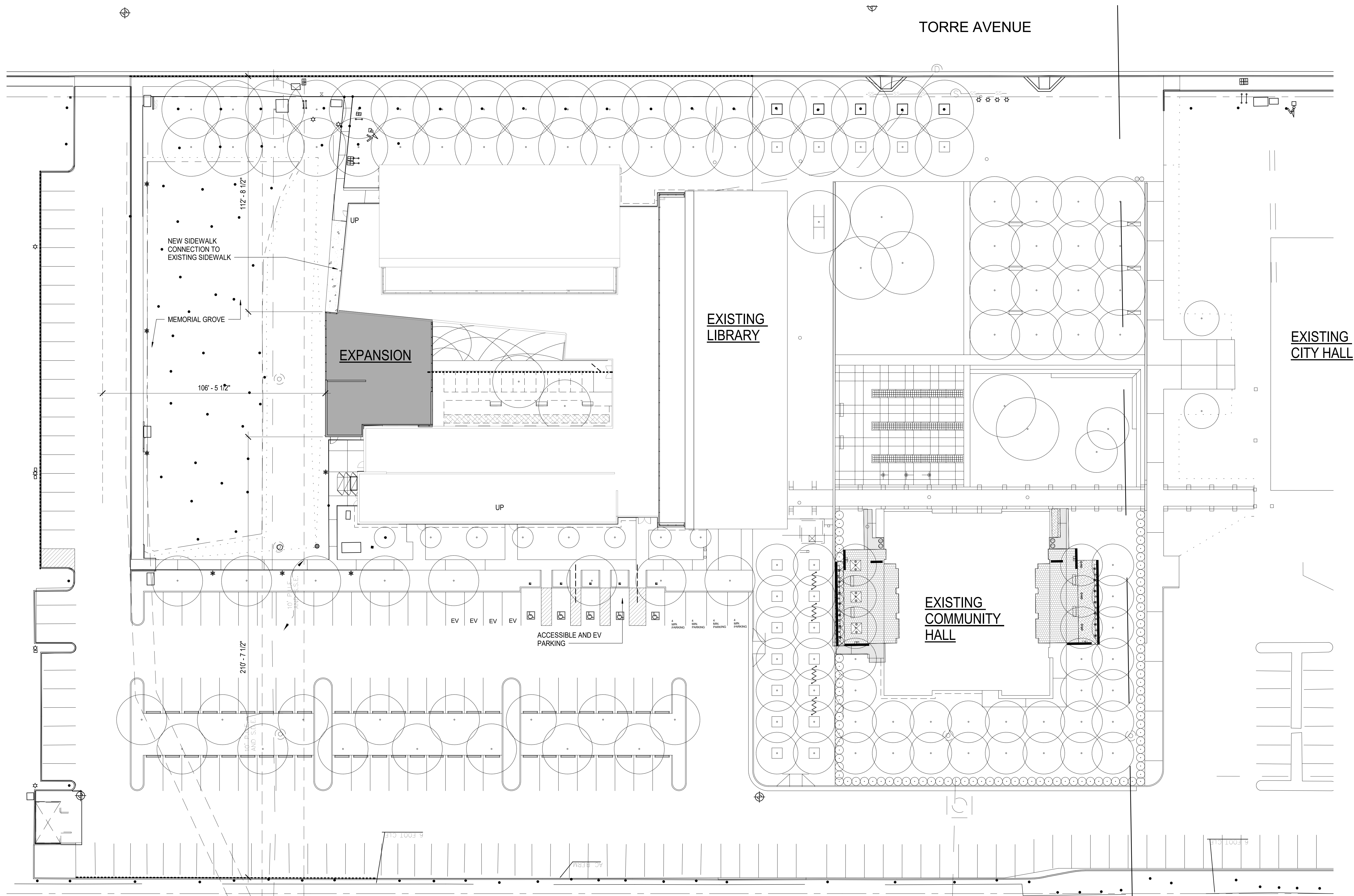
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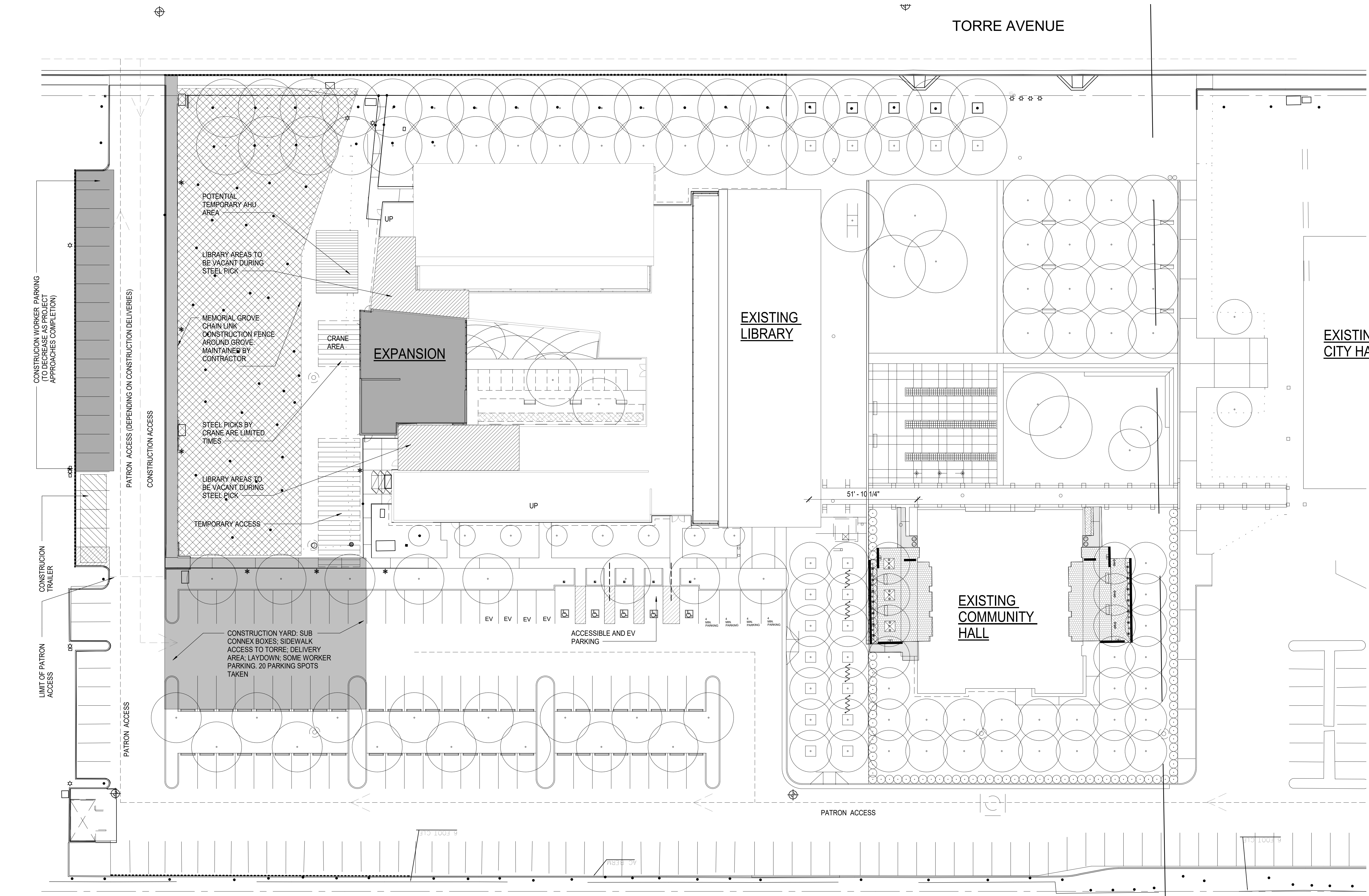
SITE PLAN

Sheet Number

A0.11



1 SITE PLAN
A0.11 SCALE: 1" = 20'-0"



1 SITE PLAN Construction Logistics
A0.12 SCALE: 1" = 20'-0"

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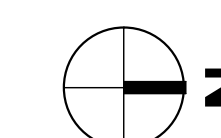
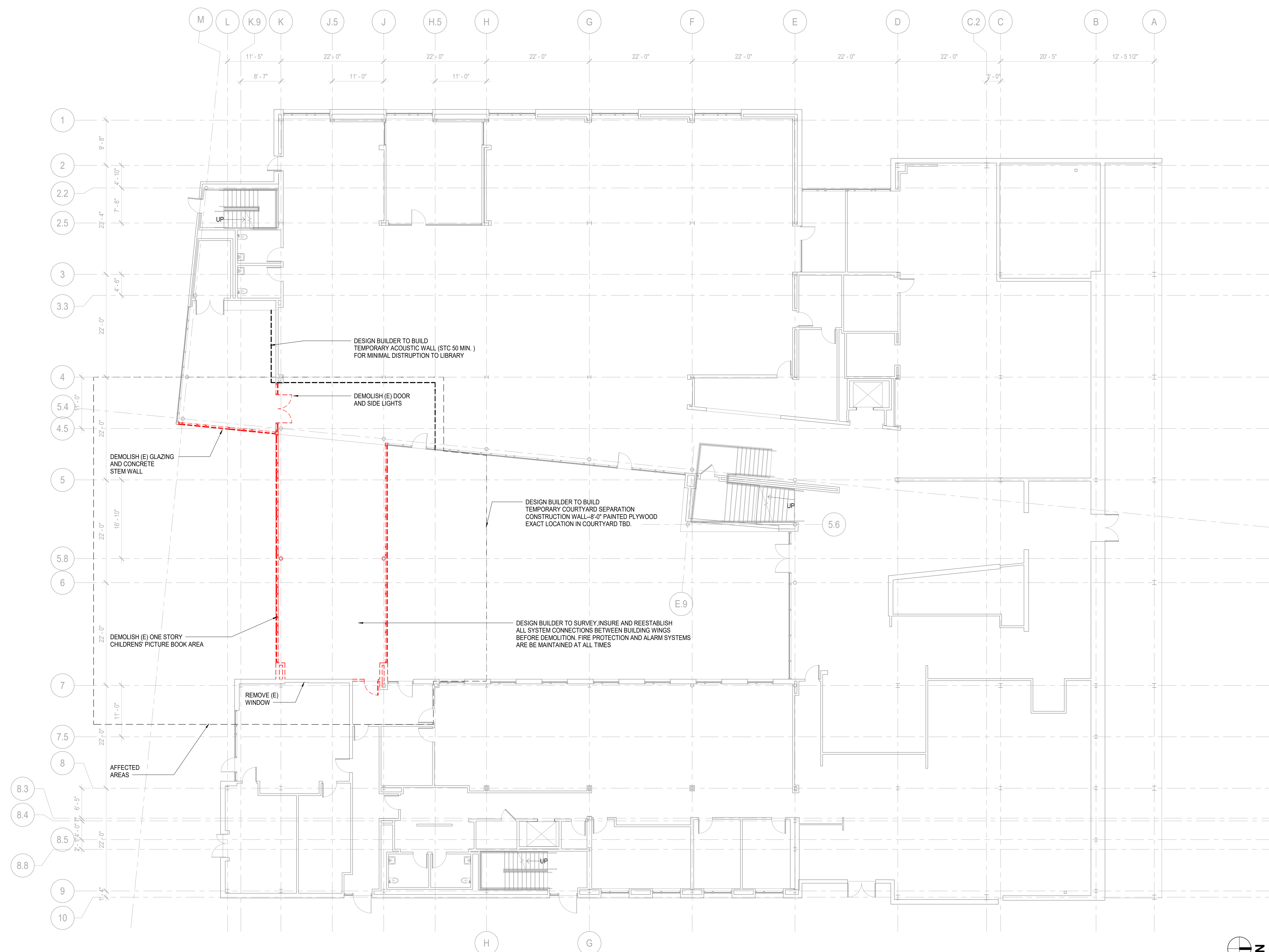
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Sheet Title

LEVEL 1 - DEMOLITION PLAN

Sheet Number

A1.01



1
A1.01

LEVEL 1 - DEMO PLAN

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



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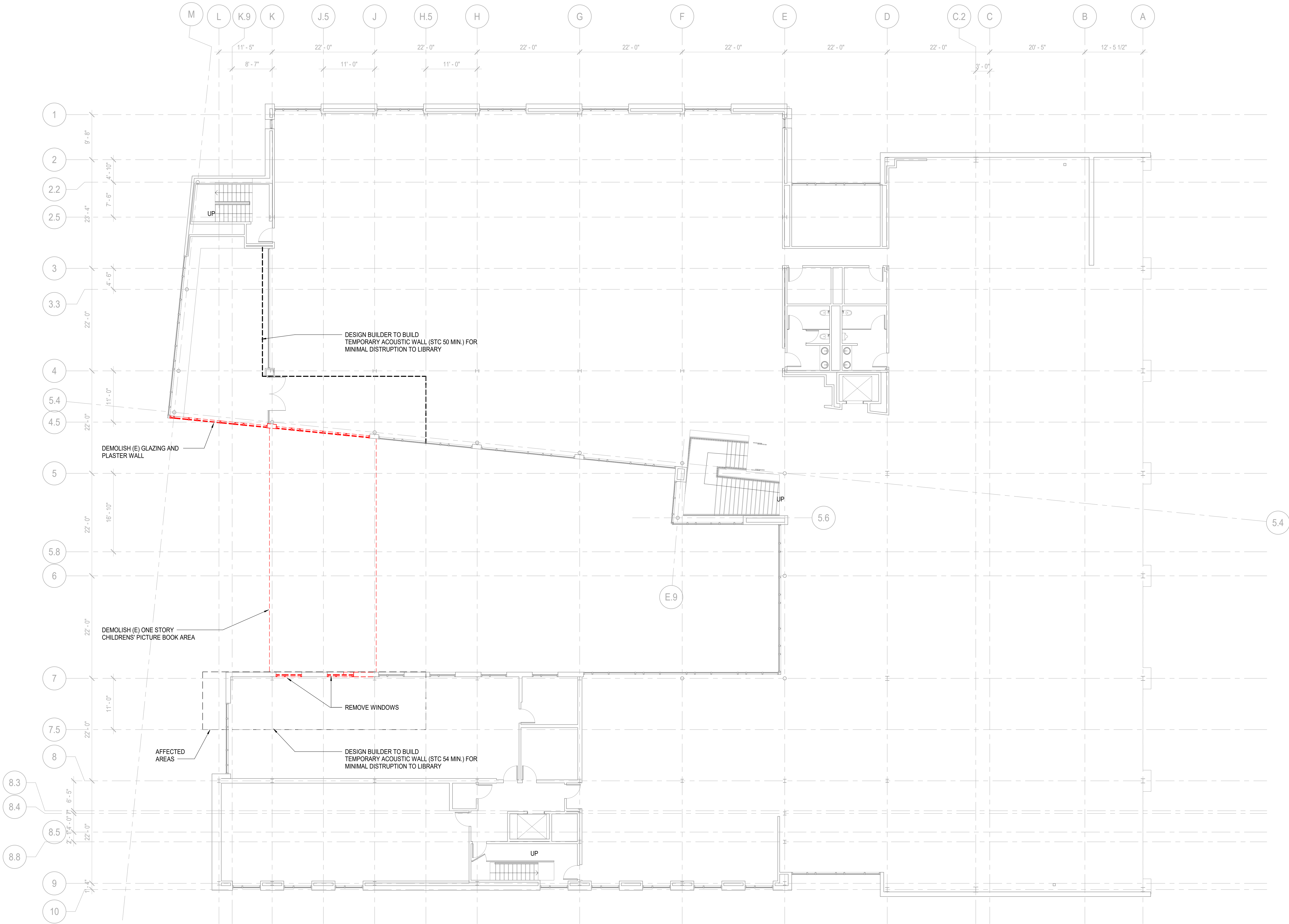
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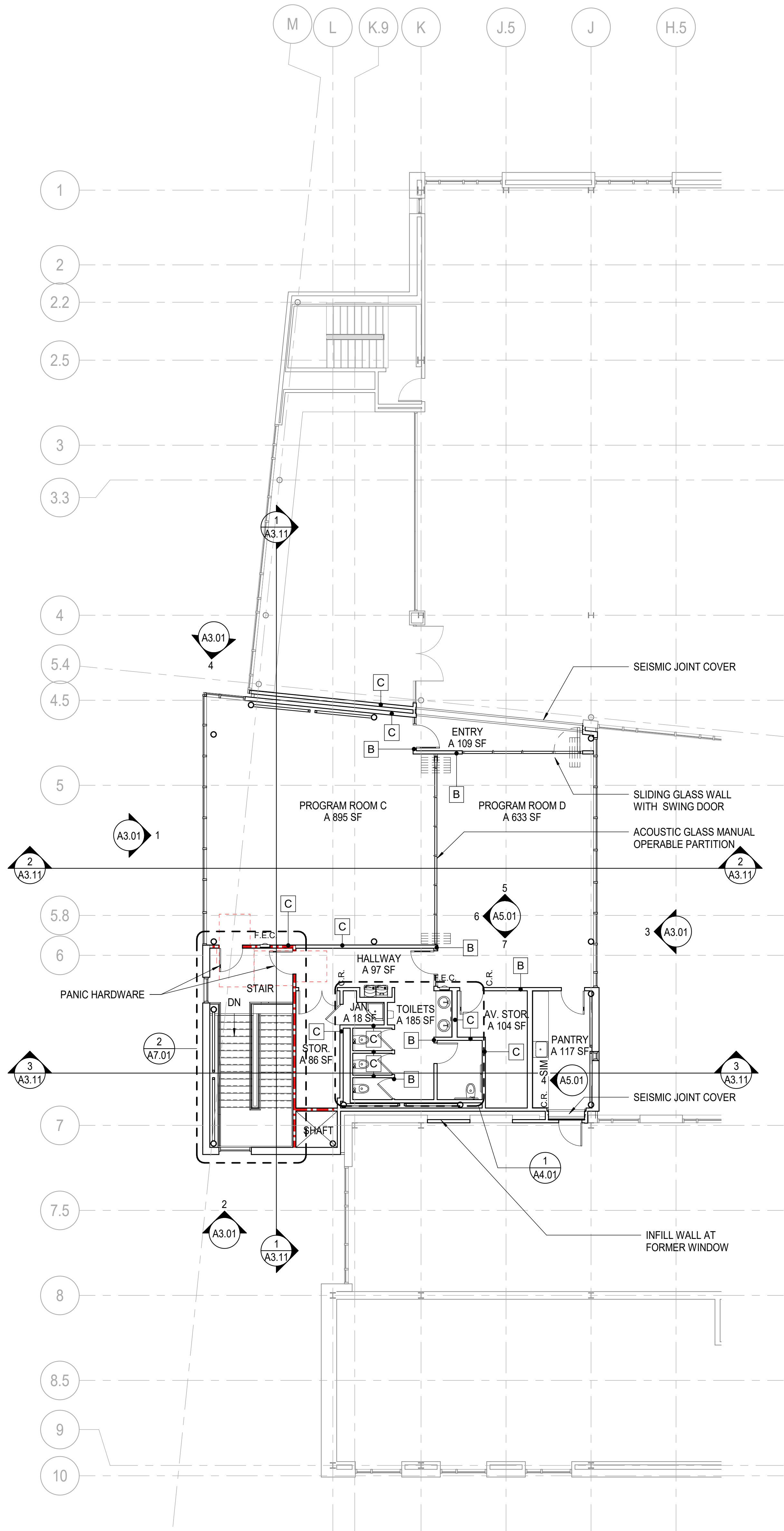
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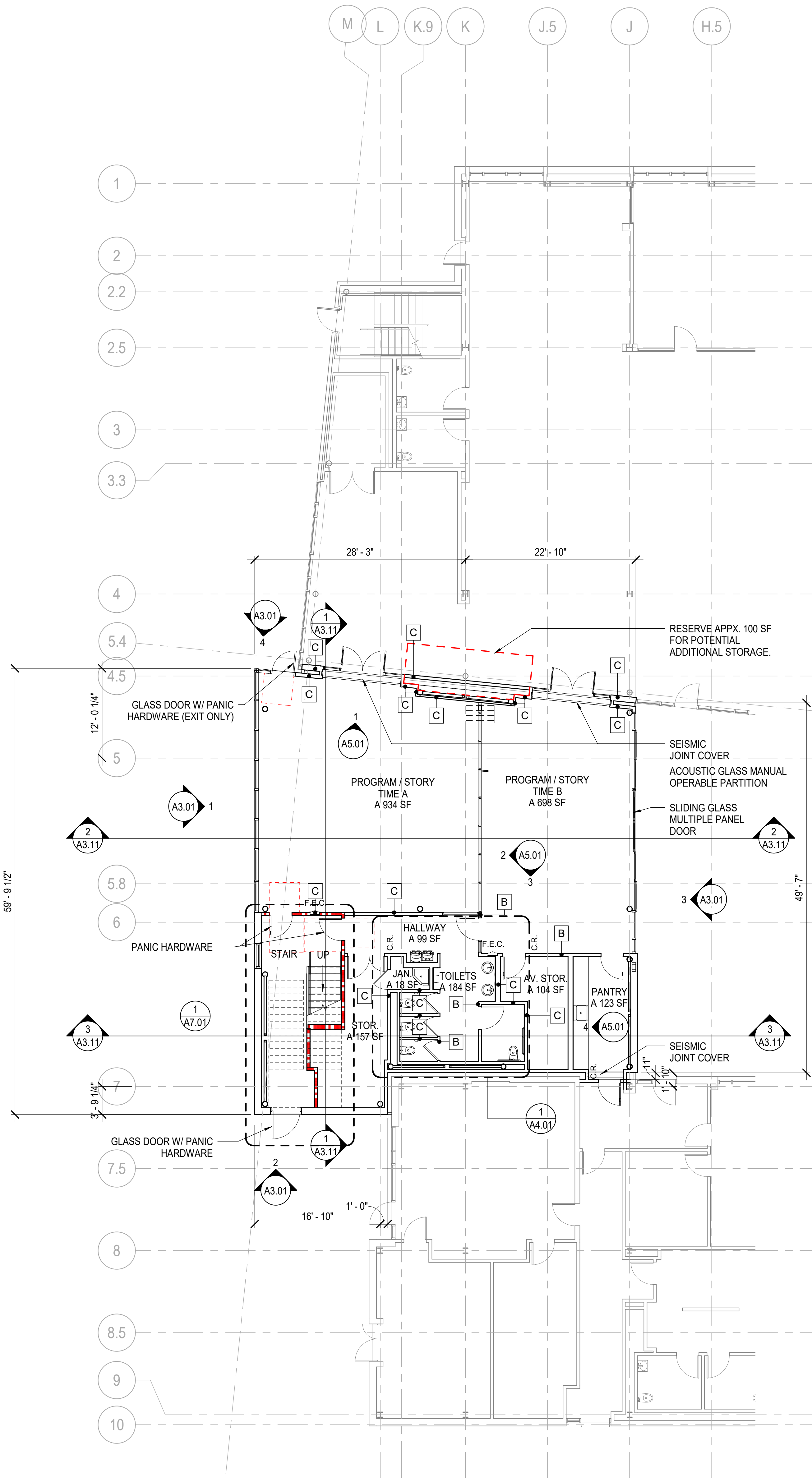
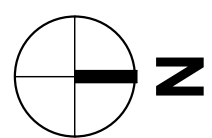
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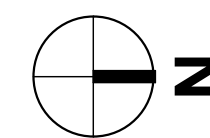
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LEVEL 2 - DEMO PLAN
SCALE: 1/8" = 1'-0"



2 LEVEL 2
A2.11 SCALE: 1/8" = 1'-0"



1 LEVEL 1
A2.11 SCALE: 1/8" = 1'-0"



FLOOR PLAN NOTES

1. REFER TO SHEET G3.01 FOR ACCESSIBLE MOUNTING HEIGHTS AND DIAGRAM.
2. REFER TO SPECIFICATIONS FOR STAIR AND RAILING TYPES.
3. ALL DOORS INTO PROGRAM ROOMS TO HAVE SOUND GASKETS SEE SHEET A9.01.
4. REFER TO ACOUSTICAL NARRATIVE FOR MORE INFORMATION.
5. REFER TO SHEET A9.01 FOR TYPICAL ACOUSTIC INTERIOR DETAILS.

FLOOR PLAN LEGEND

- EXISTING TO REMAIN
- NEW PARTITION AND DOOR
- 1-HR FIRE BARRIER
- SHAFT OR OPENING IN FLOOR SLAB
- F.E.C. RECESSED FIRE EXTINGUISHER CABINET
- C.R. CARD READER ACCESS
- WALL TYPE TAG

WALL TYPES SCHEDULE

REFER TO SHEET A9.01 FOR WALL TYPE DETAILS.

- B FULL HEIGHT 42 STC
- C FULL HEIGHT 47 STC

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LEVEL 1 & 2 -
FLOOR PLANS

Sheet Number

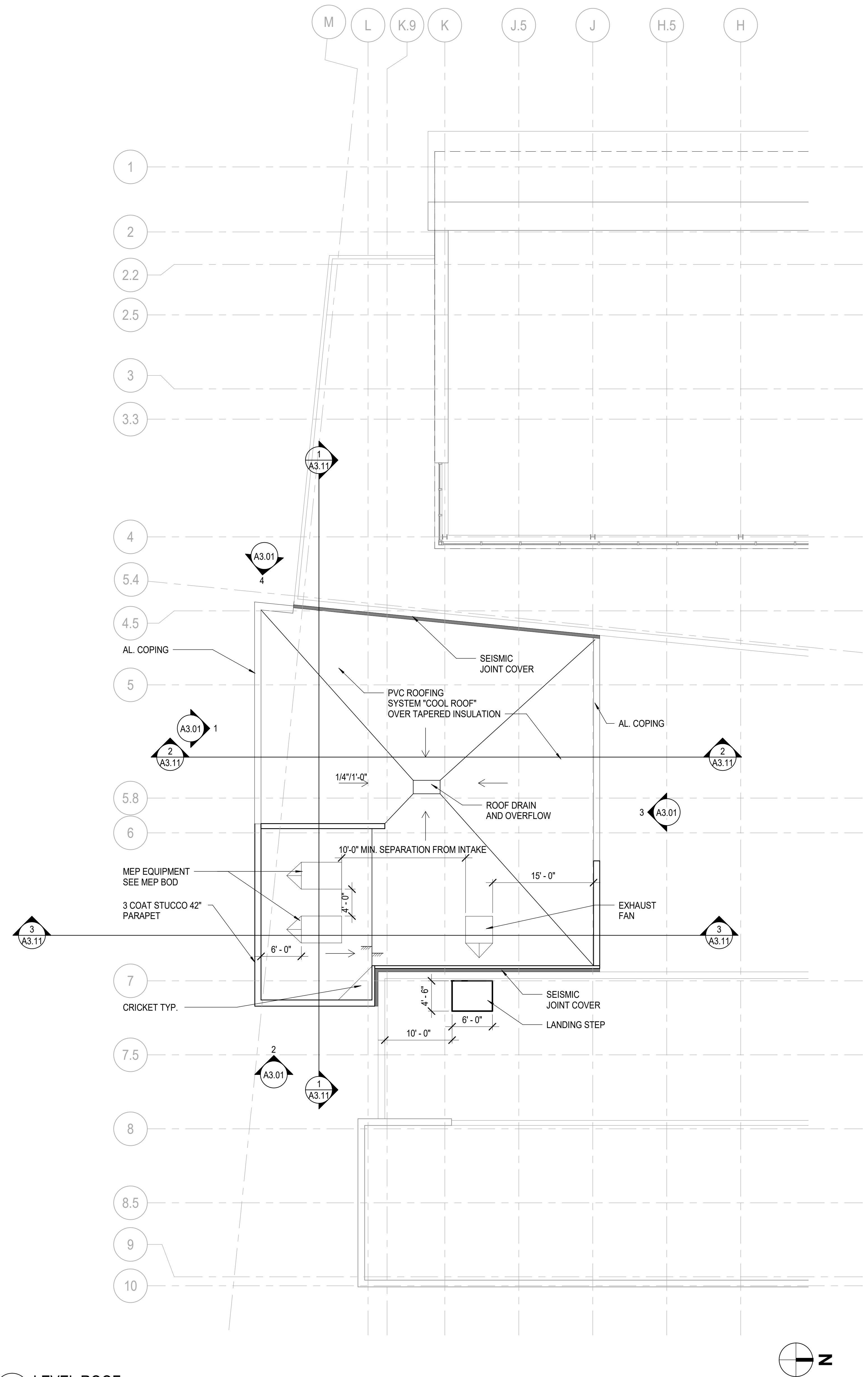
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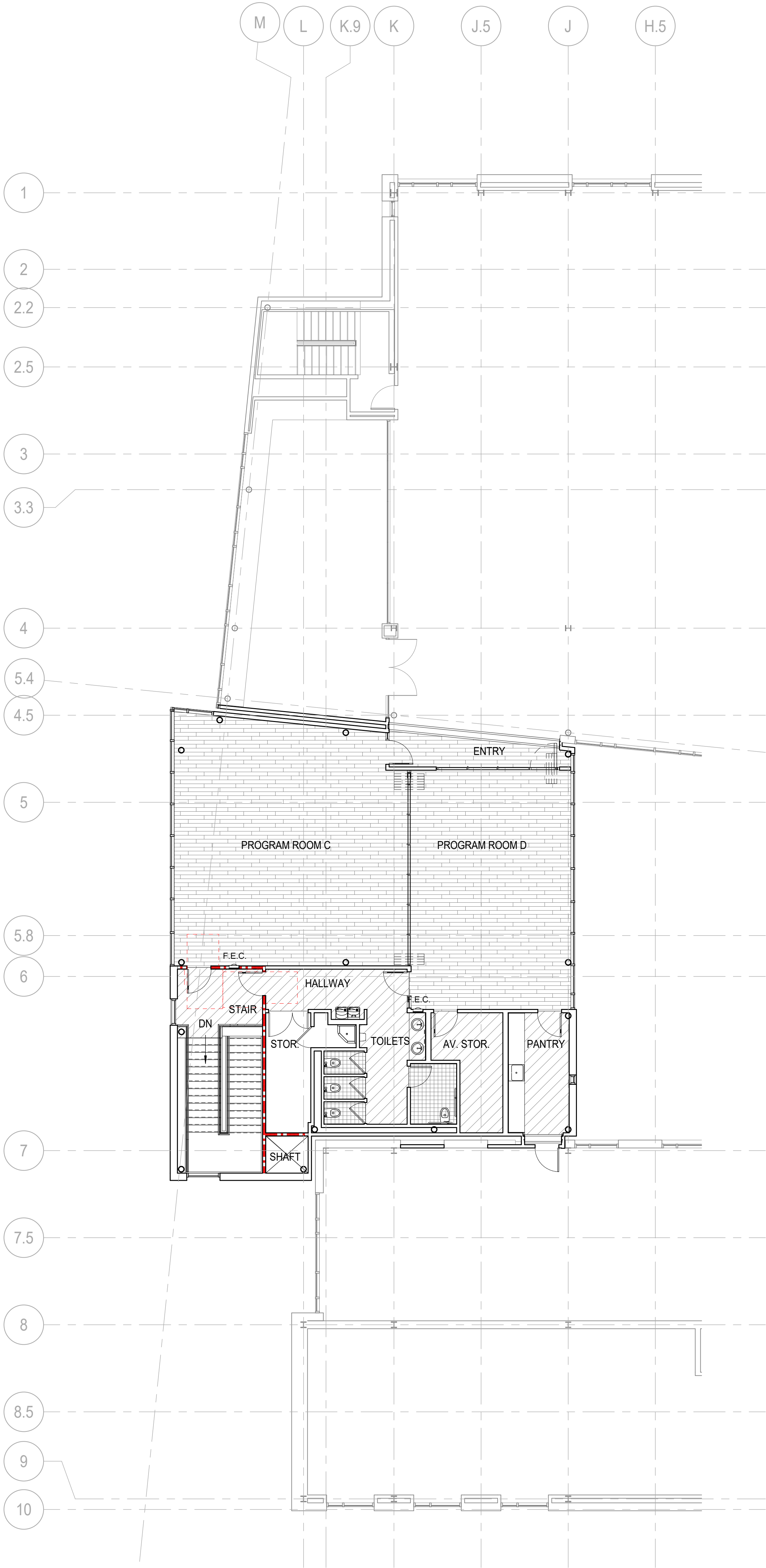
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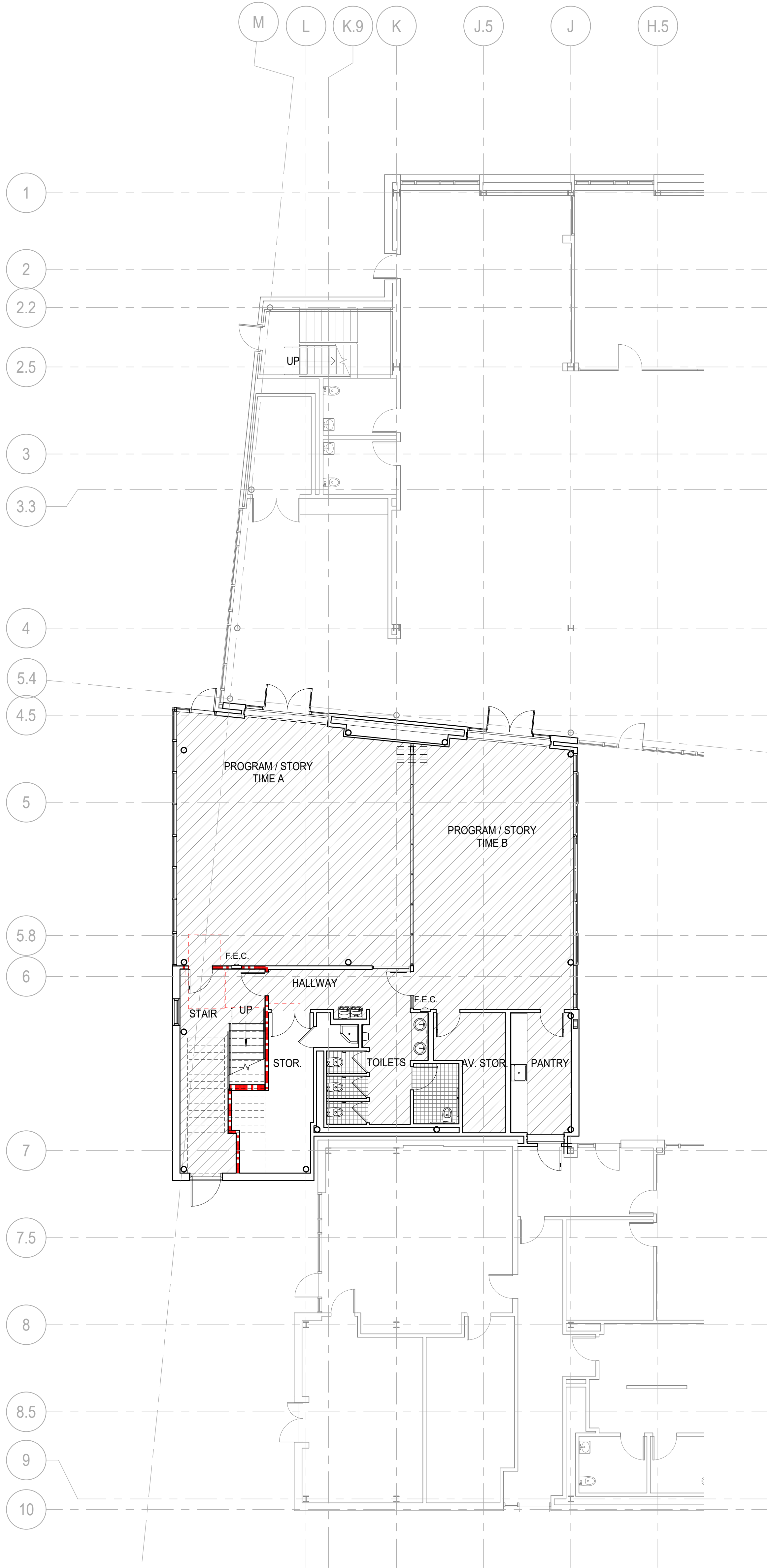
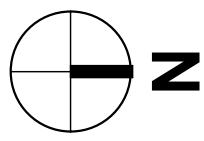
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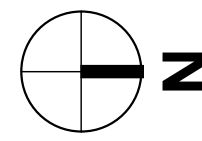
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2 LEVEL 2 FINISH PLAN
A2.21 SCALE: 1/8" = 1'-0"



1 LEVEL 1 FINISH PLAN
A2.21 SCALE: 1/8" = 1'-0"



FINISH PLAN NOTES

- 1. REFER TO SPECIFICATIONS FOR FINISH MATERIAL INFORMATION
- 2. REFER TO SHEET A6.01 FOR CEILING FINISHES
- 3. WHITE WALL PAINT, TYPICAL
- 4. GREY WALL BASE, TYPICAL
- 5. ALL EXPOSED STEEL TO BE PAINTED TO MATCH EXISTING BUILDING EXPOSED STRUCTURE
- 6. REFER TO INTERIOR ELEVATIONS A5.01 FOR MORE INFORMATION

FINISH PLAN LEGEND

- SHEE RUBBER FLOORING
- CARPET TILE
- 6" X 6" PORCELAIN TILE
- SEALED CONCRETE

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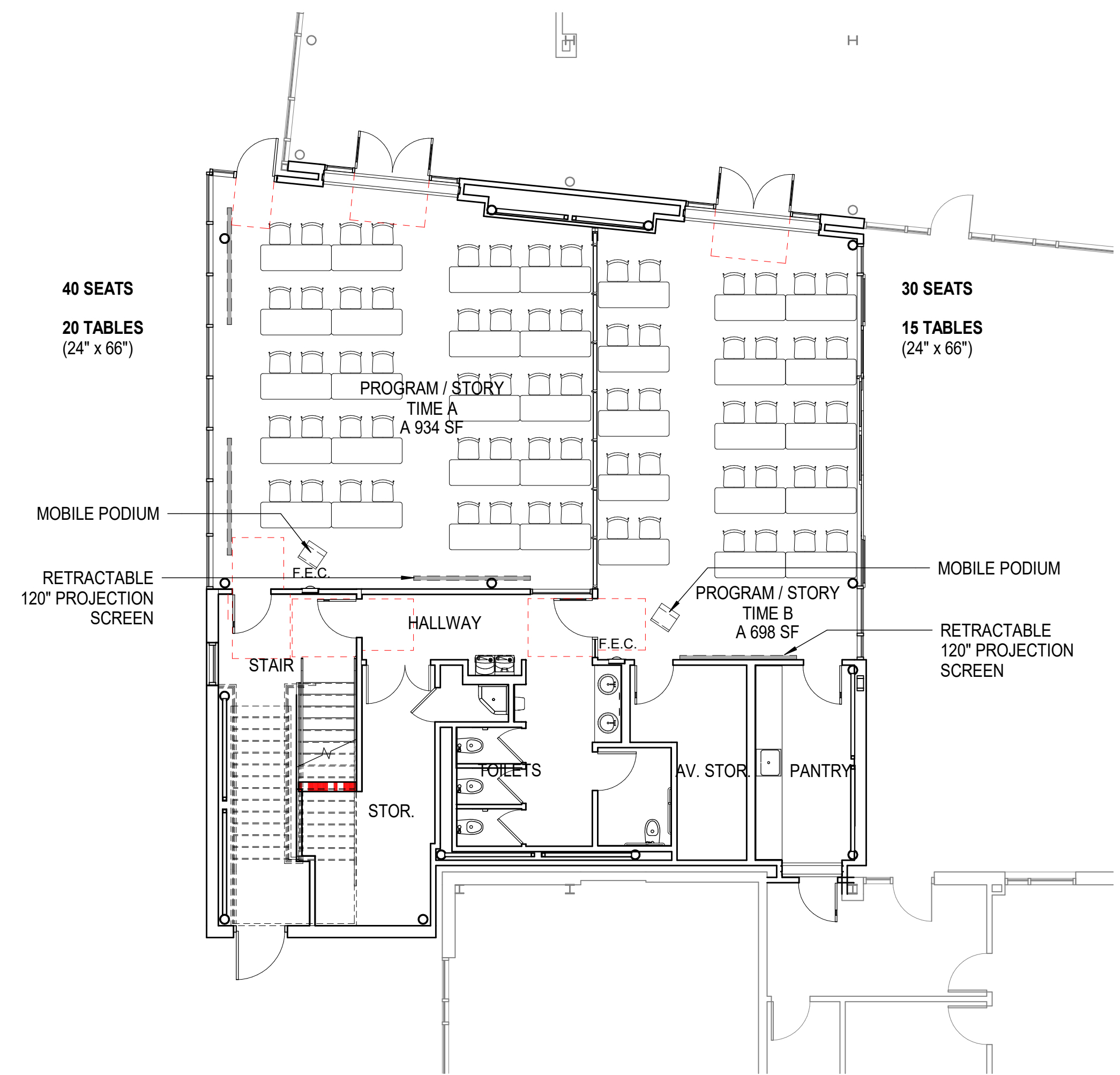
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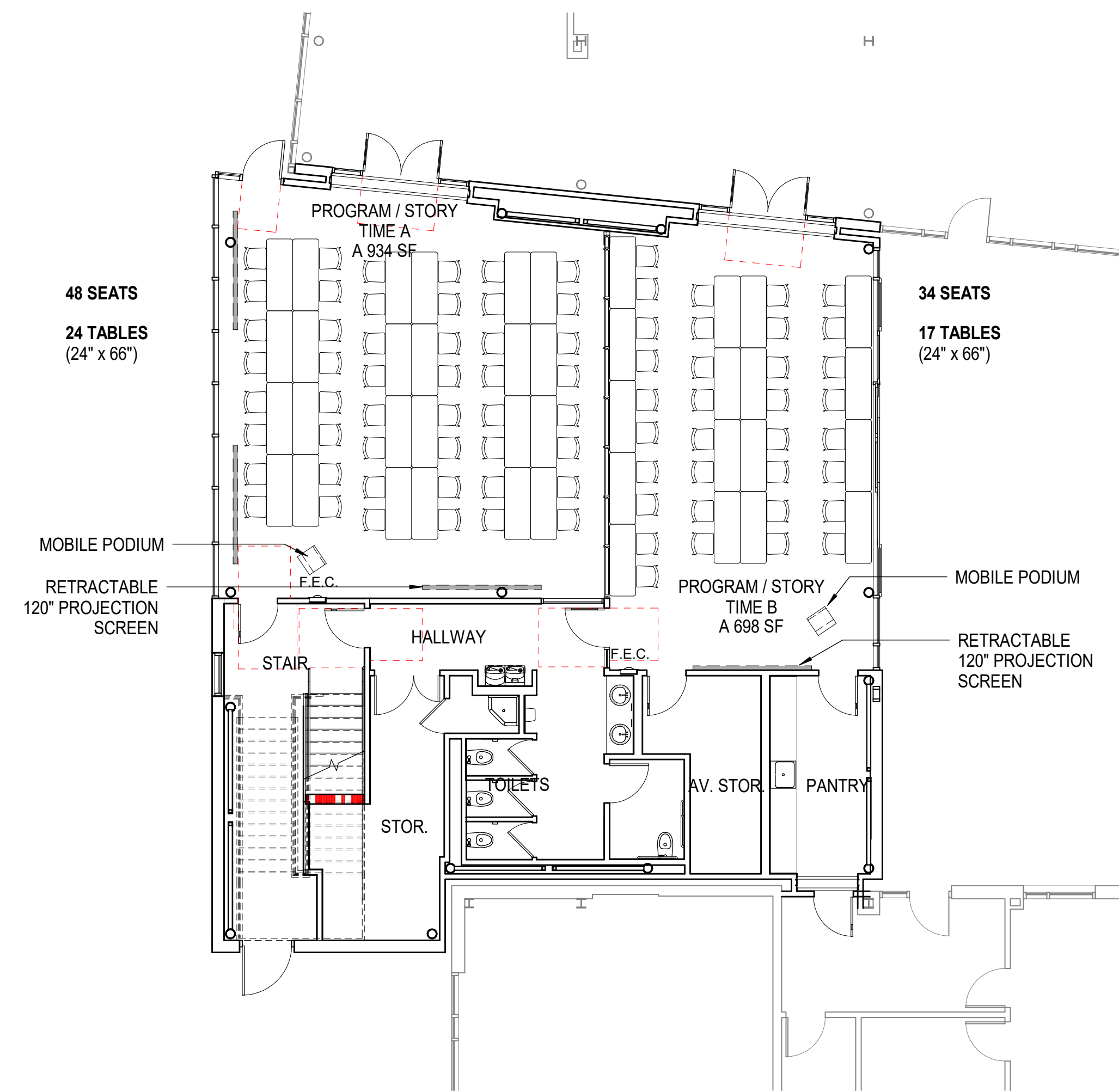
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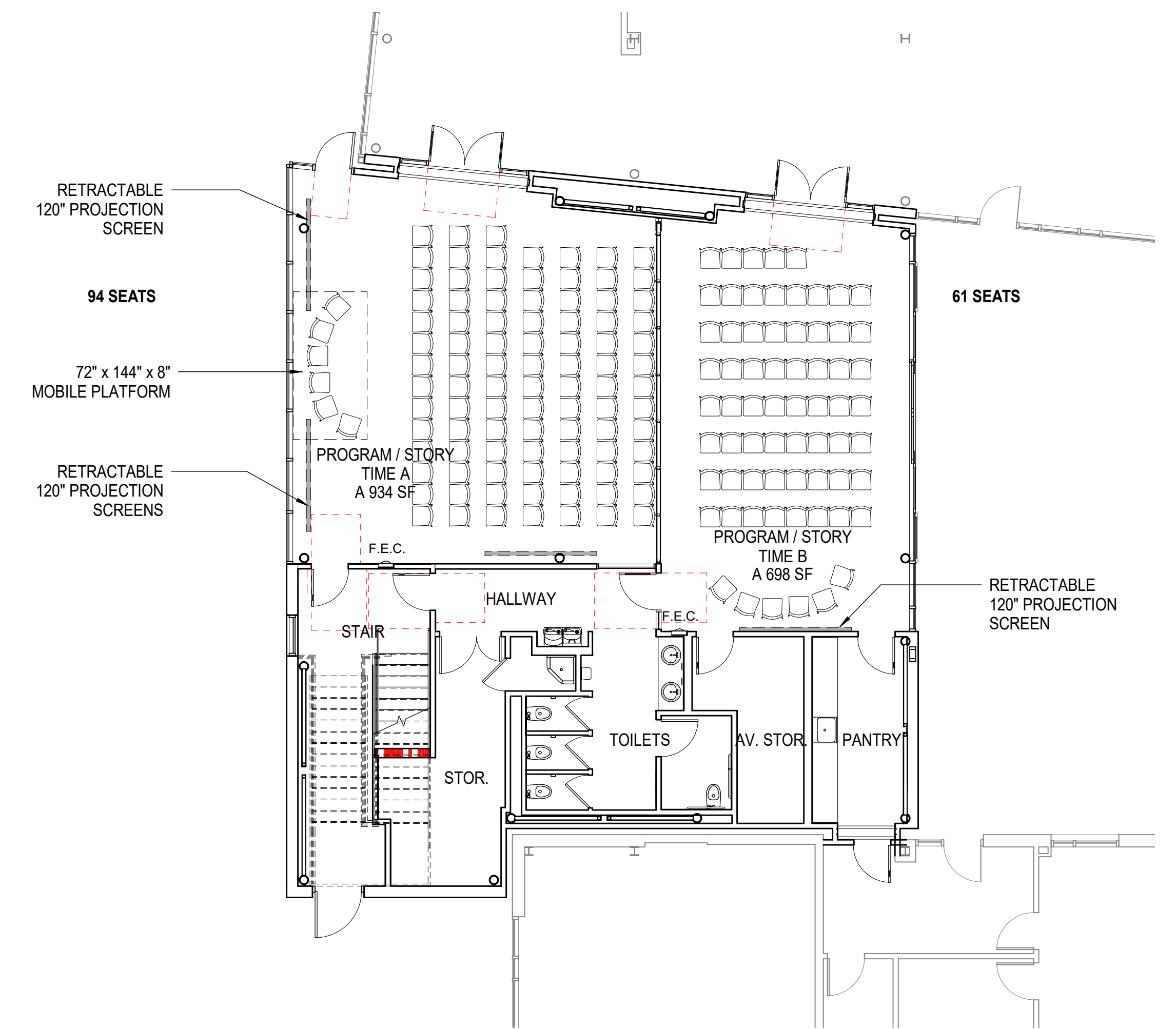
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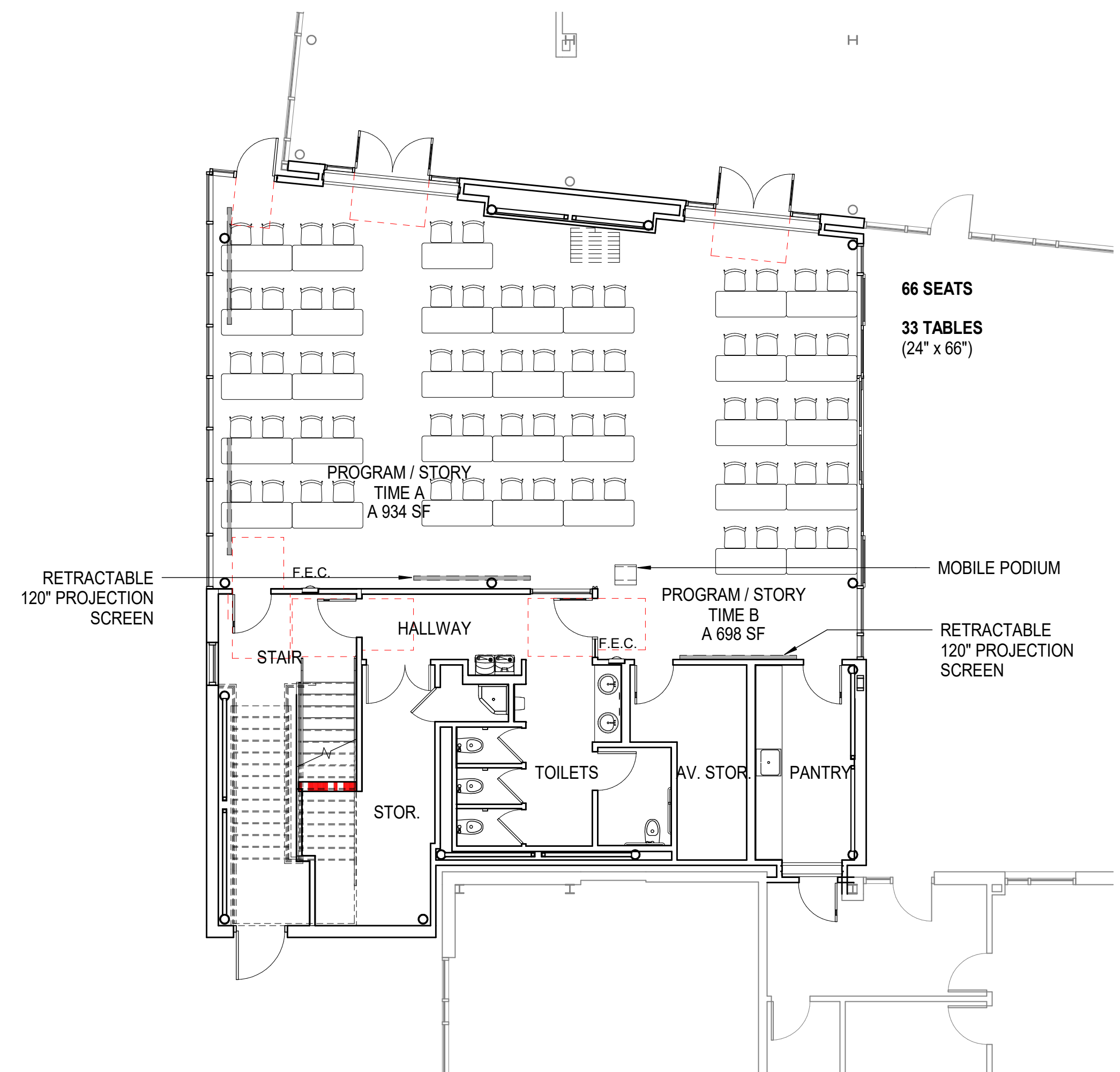
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A2.41 SCALE: 1/8" = 1'-0"



5 LEVEL 1 - CLOSED COMMUNAL SEATING
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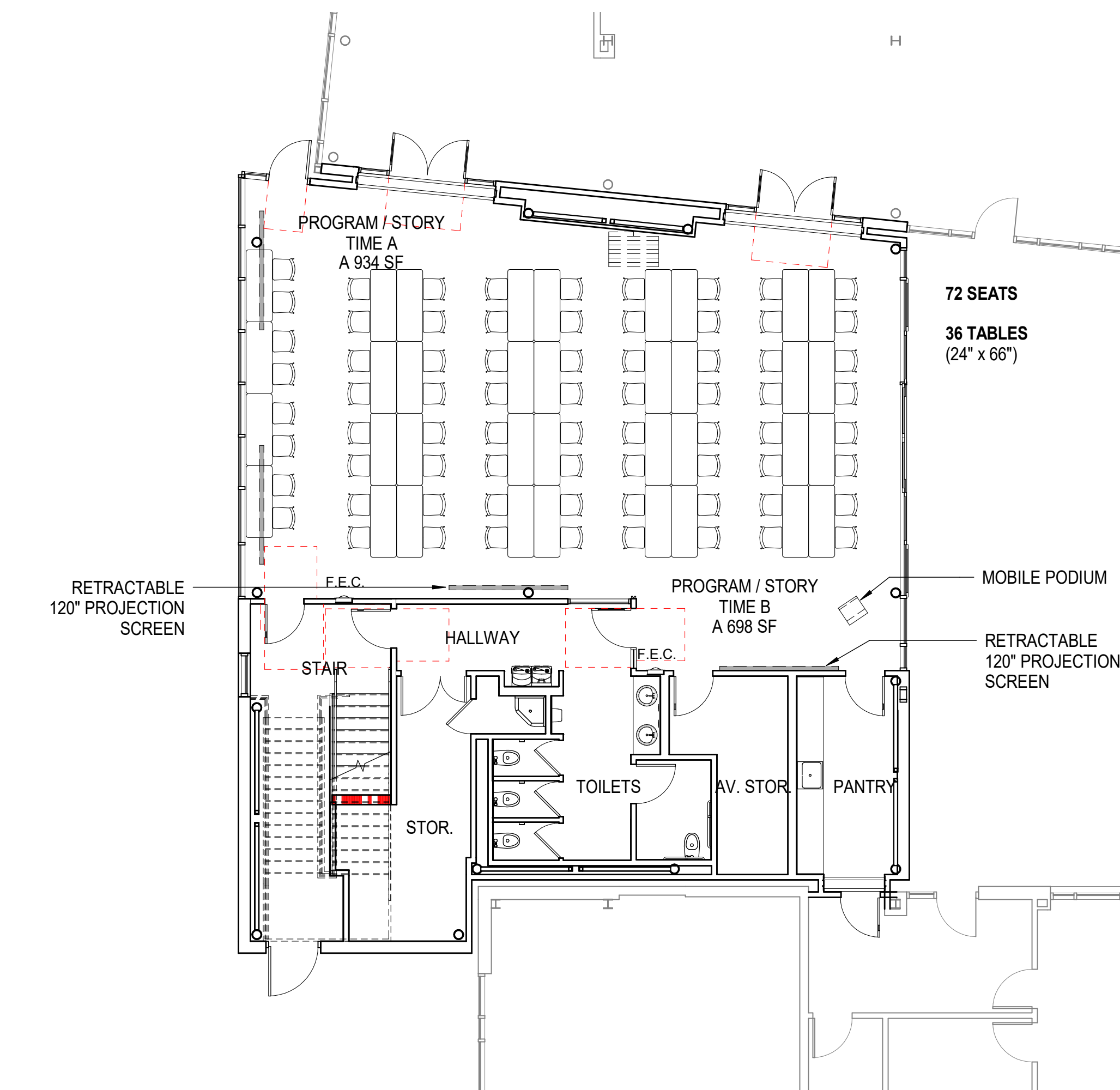


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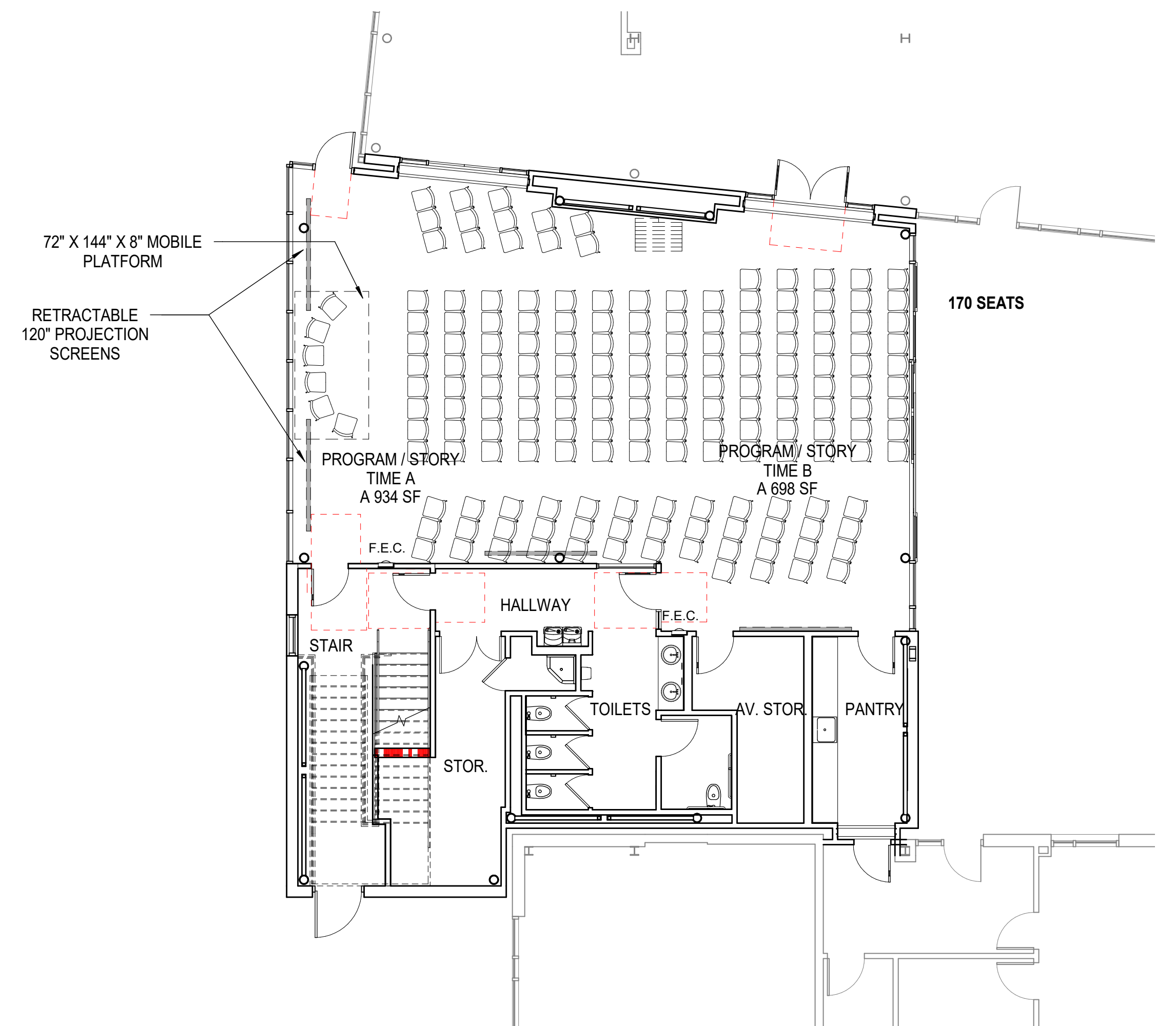


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LEVEL 1 - OPEN CLASSROOM SEATING
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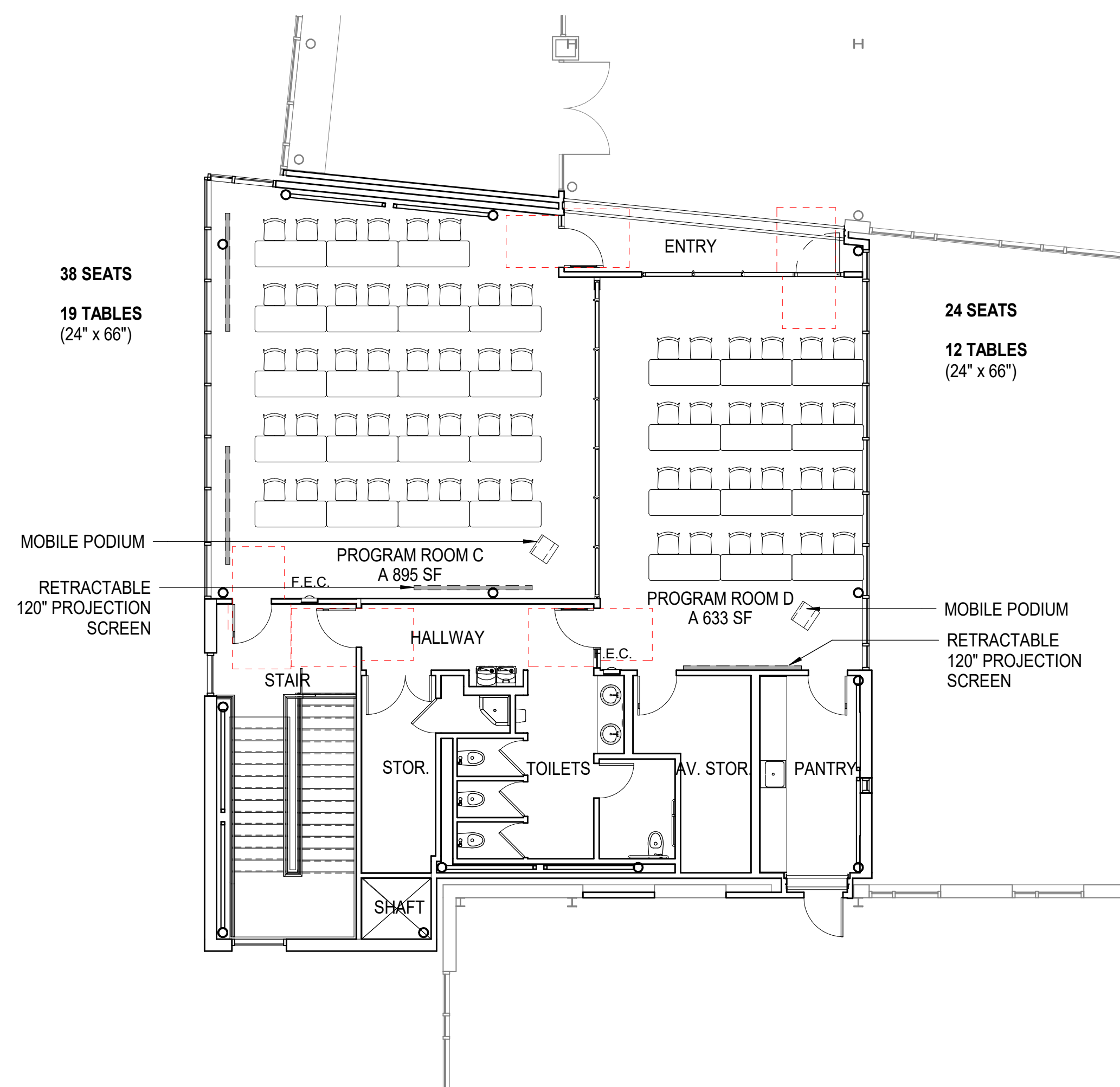


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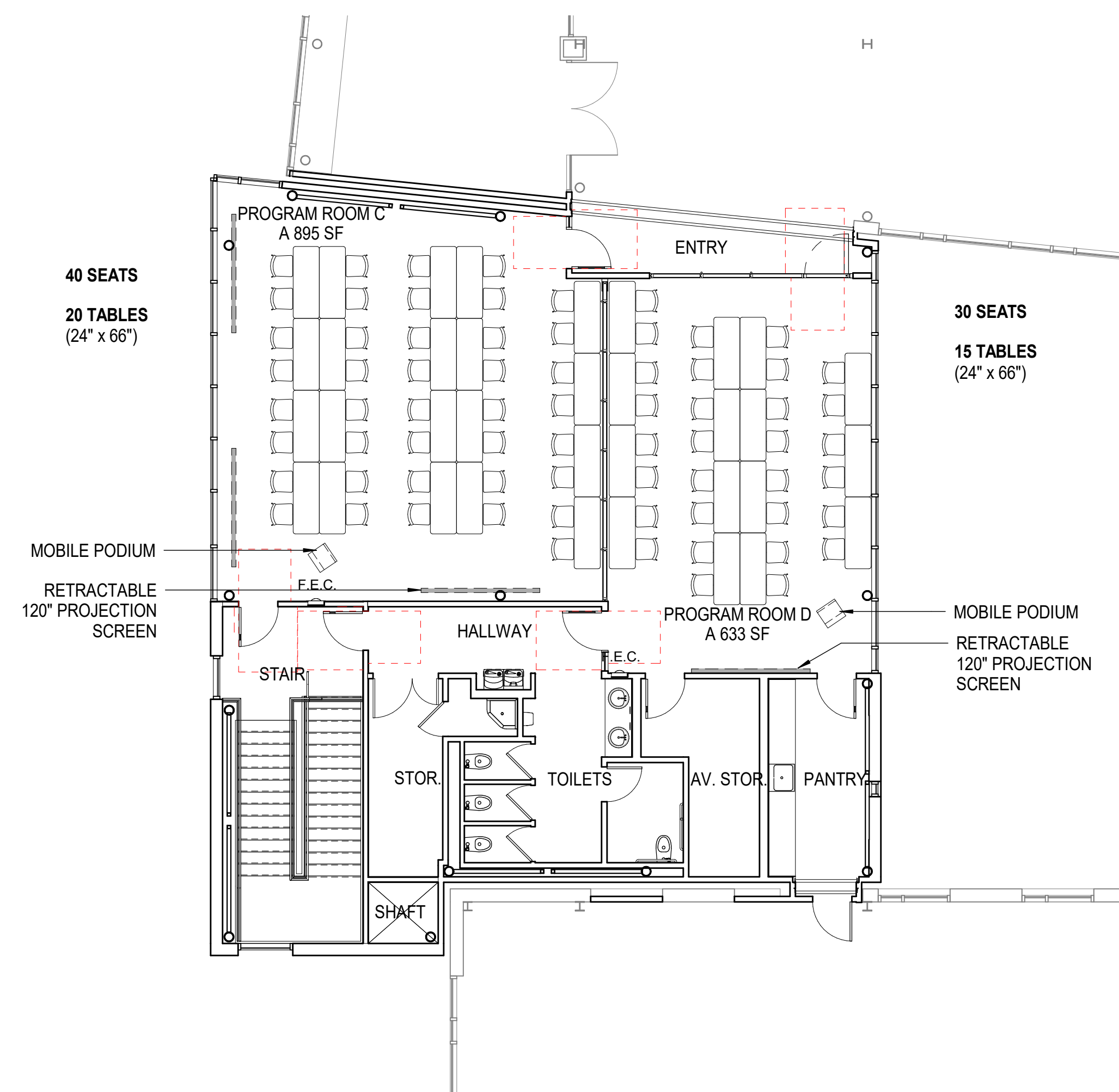


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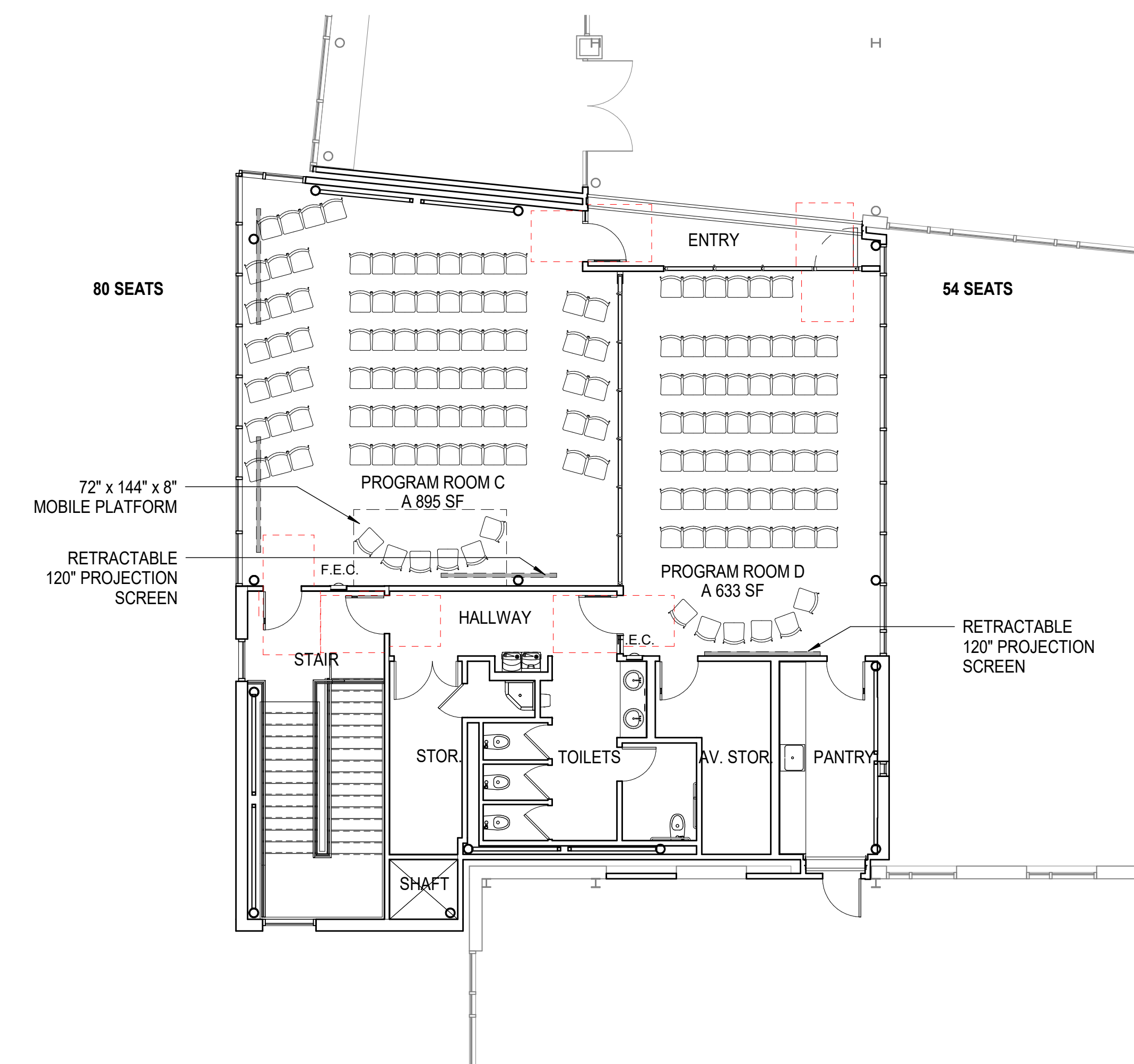
LEVEL 1 - OPEN AUDIENCE SEATING
SCALE: 1/8" = 1'-0"



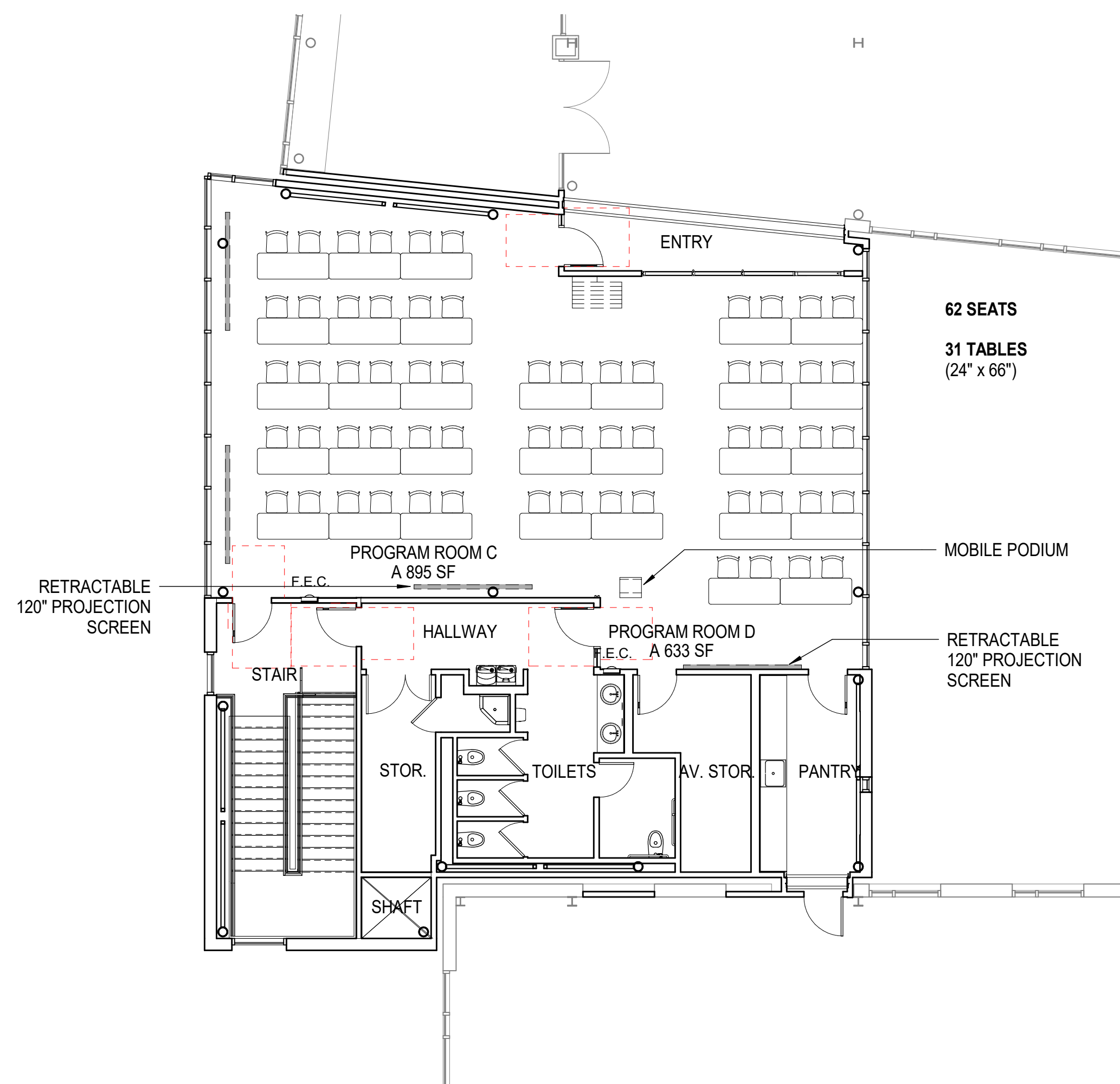
LEVEL 2 - CLOSED CLASSROOM SEATING



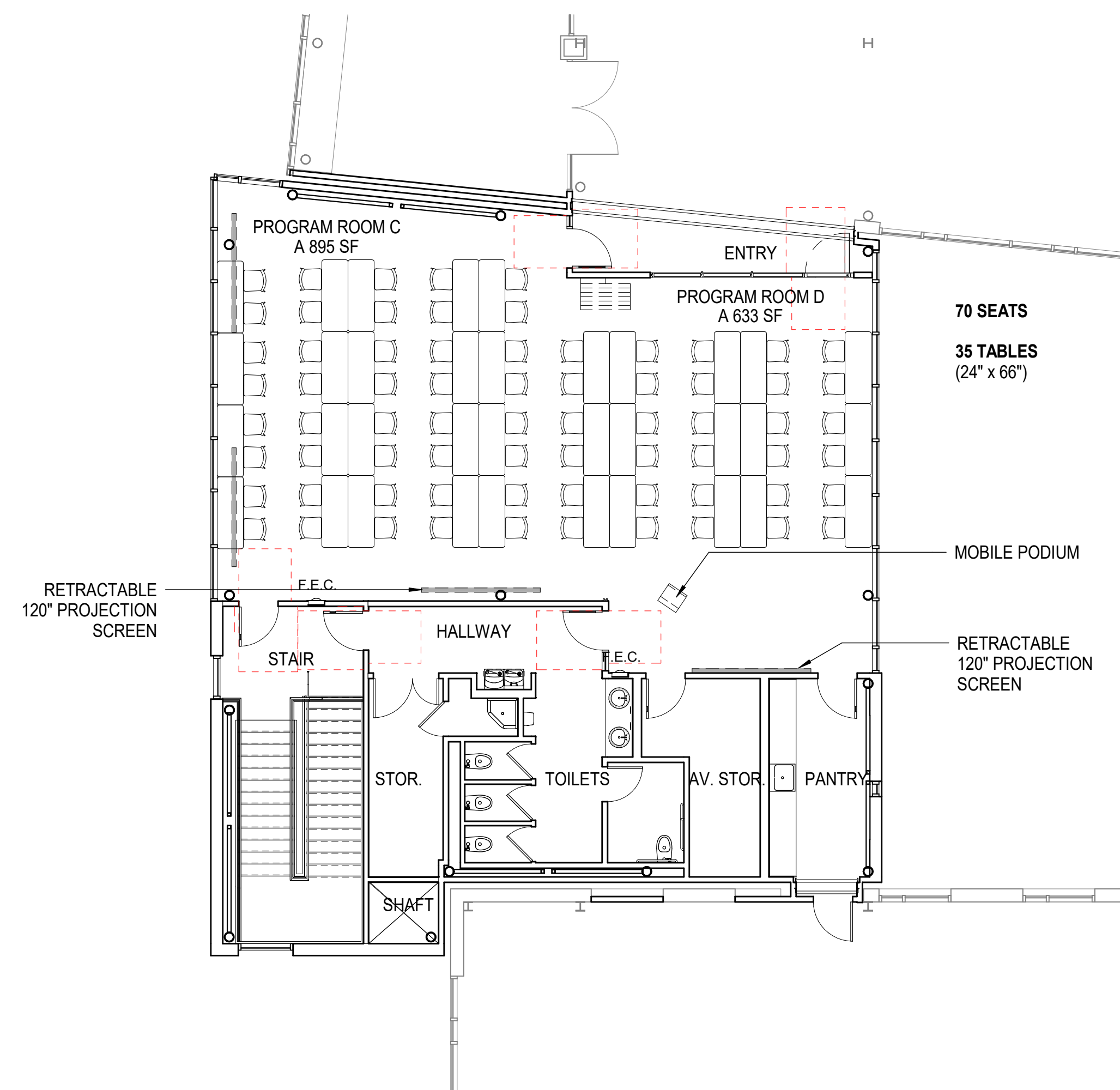
5 LEVEL 2 - CLOSED COMMUNAL SEATING
A2.42 SCALE: 1/8" = 1'-0"



4 LEVEL 2 - CLOSED AUDIENCE SEATING
A2.42 SCALE: 1/8" = 1'-0"

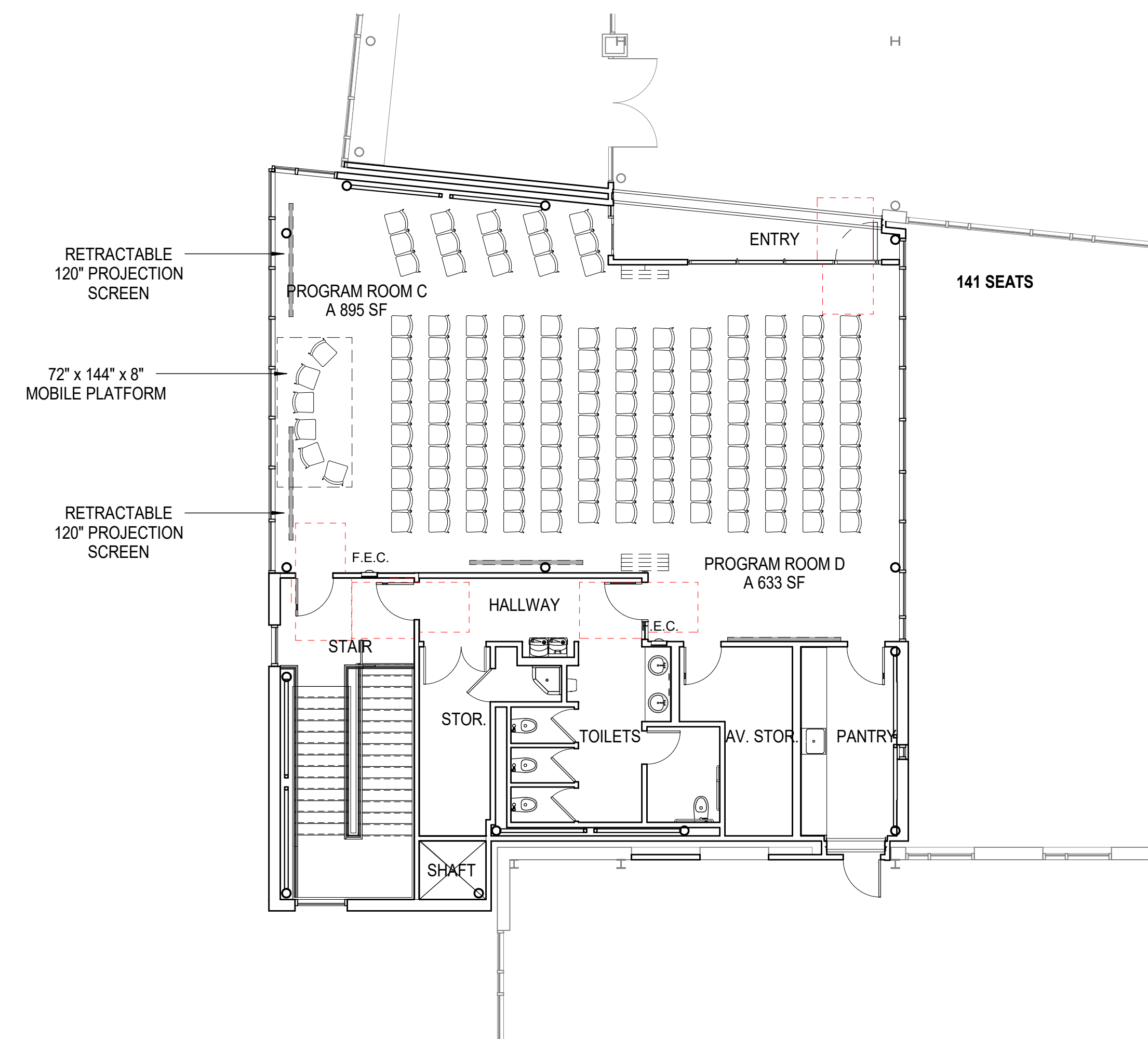


3 LEVEL 2 - OPEN CLASSROOM SEATING
A2.42 SCALE: 1/8" = 1'-0"



2
A2.42

LEVEL 2 - OPEN COMMUNAL SEATING
SCALE: 1/8" = 1'-0"



1
A2.42

LEVEL 2 - OPEN AUDIENCE SEATING
SCALE: 1/8" = 1'-0"

A3.01

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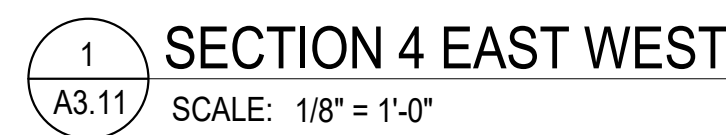
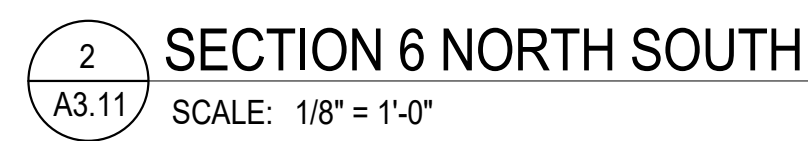
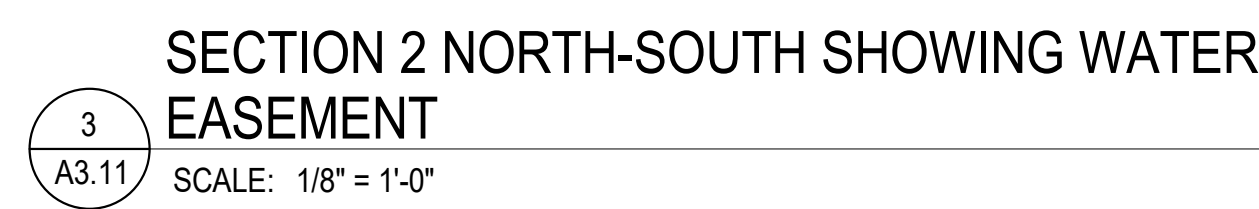
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Scale
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Author
EHDD Job Number
00013

Sheet Number

A3.11



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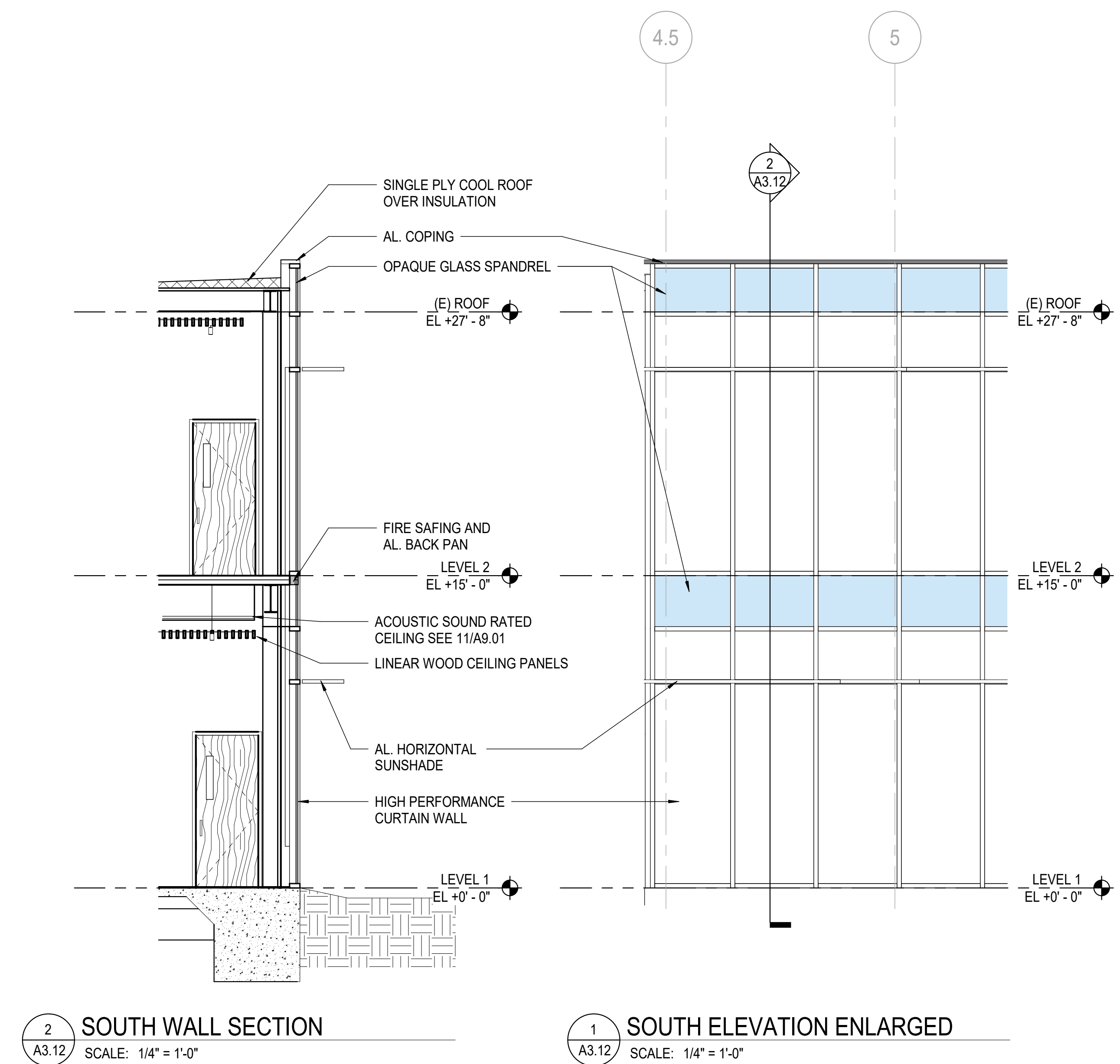
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Sheet Title

BUILDING WALL SECTIONS

Sheet Number

A3.12

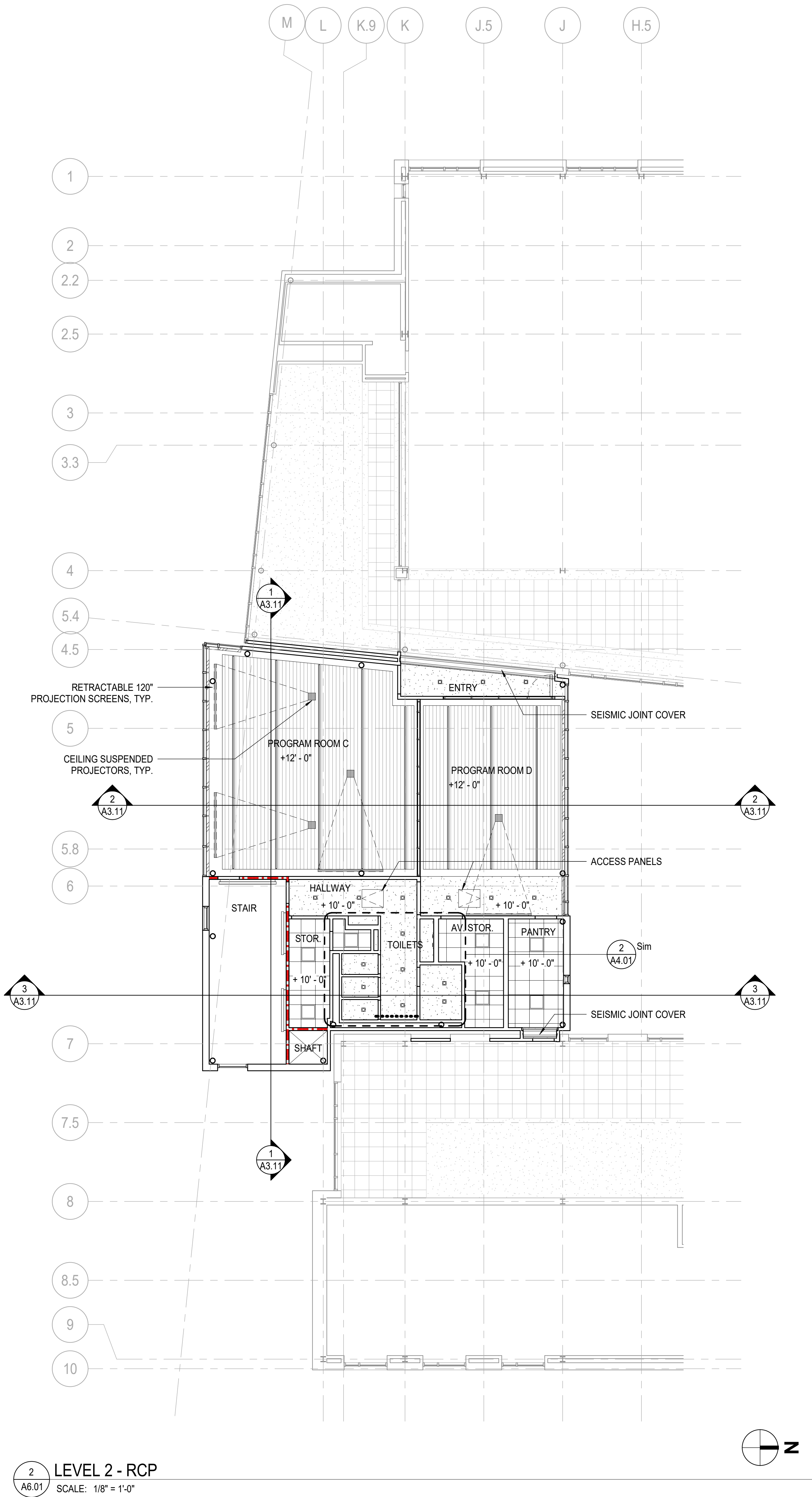


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A4.01

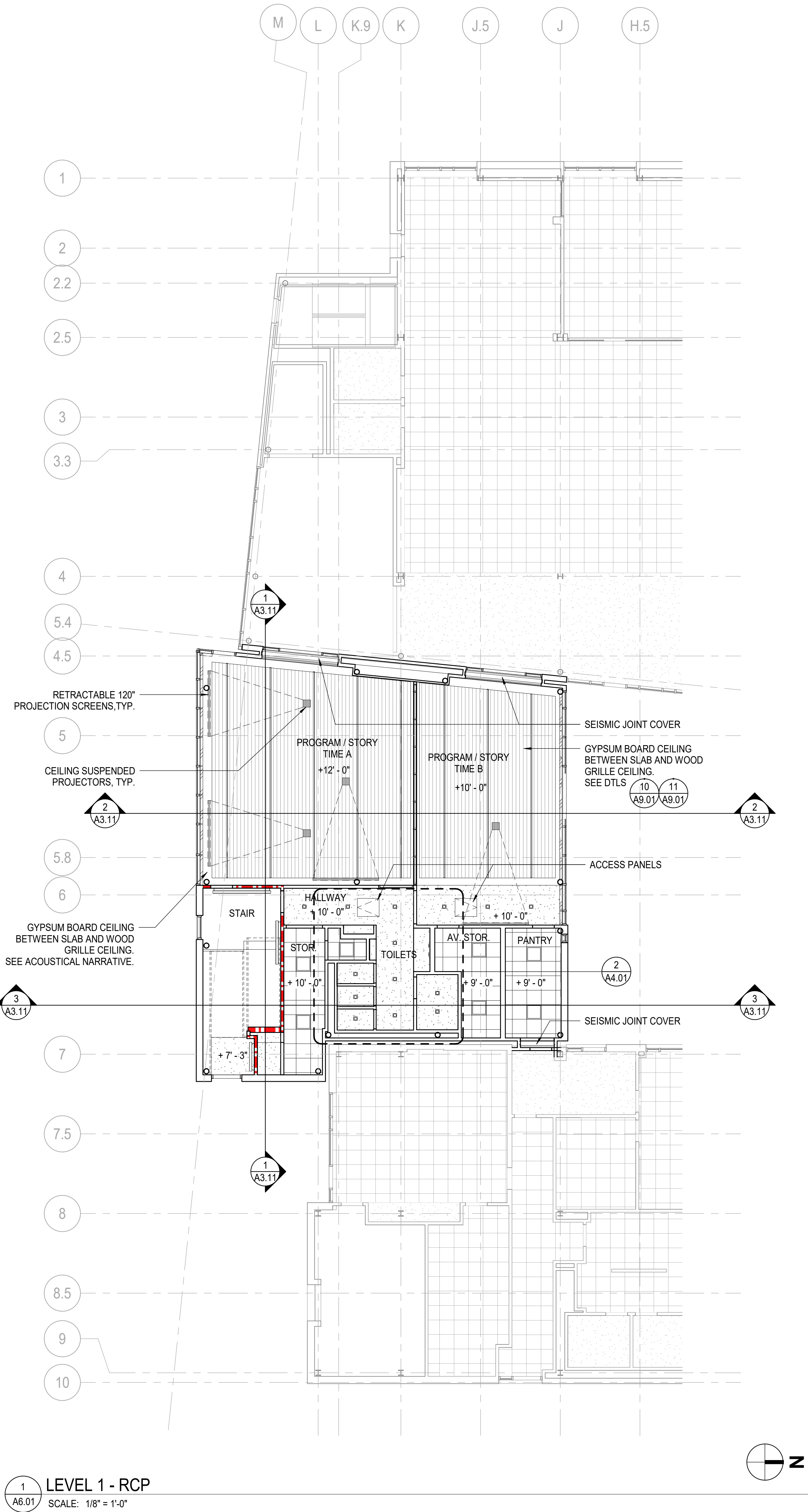
LEVEL 1 - ENLARGED TOILETS PLAN (LEVEL 2 SIM.)
SCALE: 1/2" = 1'-0"

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2 LEVEL 2 - RCP
A6.01 SCALE: 1/8" = 1'-0"



1 LEVEL 1 - RCP
A6.01 SCALE: 1/8" = 1'-0"

REFLECTED CEILING NOTES

1. REFER TO INTERIOR ELEVATIONS ON SHEET A5.01 FOR MORE INFORMATION.
2. REFER TO SPECIFICATIONS FOR FINISH MATERIAL DESCRIPTIONS.
3. REFER TO ACOUSTICAL NARRATIVE FOR MORE INFORMATION.
4. REFER TO SHEET A9.01 FOR TYPICAL ACOUSTIC INTERIOR DETAILS.

REFLECTED CEILING LEGEND

	2'X2' LAY IN ACOUSTIC TILE CEILING
	GYPSUM BOARD CEILING
	WOOD DOWEL GRILLE CEILING
+12'-8" HEIGHT OF CEILING	
	2'X2' LAY IN LED FIXTURE
	WALL MOUNTED LINEAR LED FIXTURE
	SUSPENDED LINEAR LED FIXTURE
	RECESSED LED DOWNLIGHT
	DUAL WINDOW / BLACK-OUT SHADE

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BRIDGING DOCUMENTS 100% SD	06.01.2020

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Sheet Title
**LEVEL 1 & 2 -
REFLECTED
CEILING PLAN**

Sheet Number

A6.01

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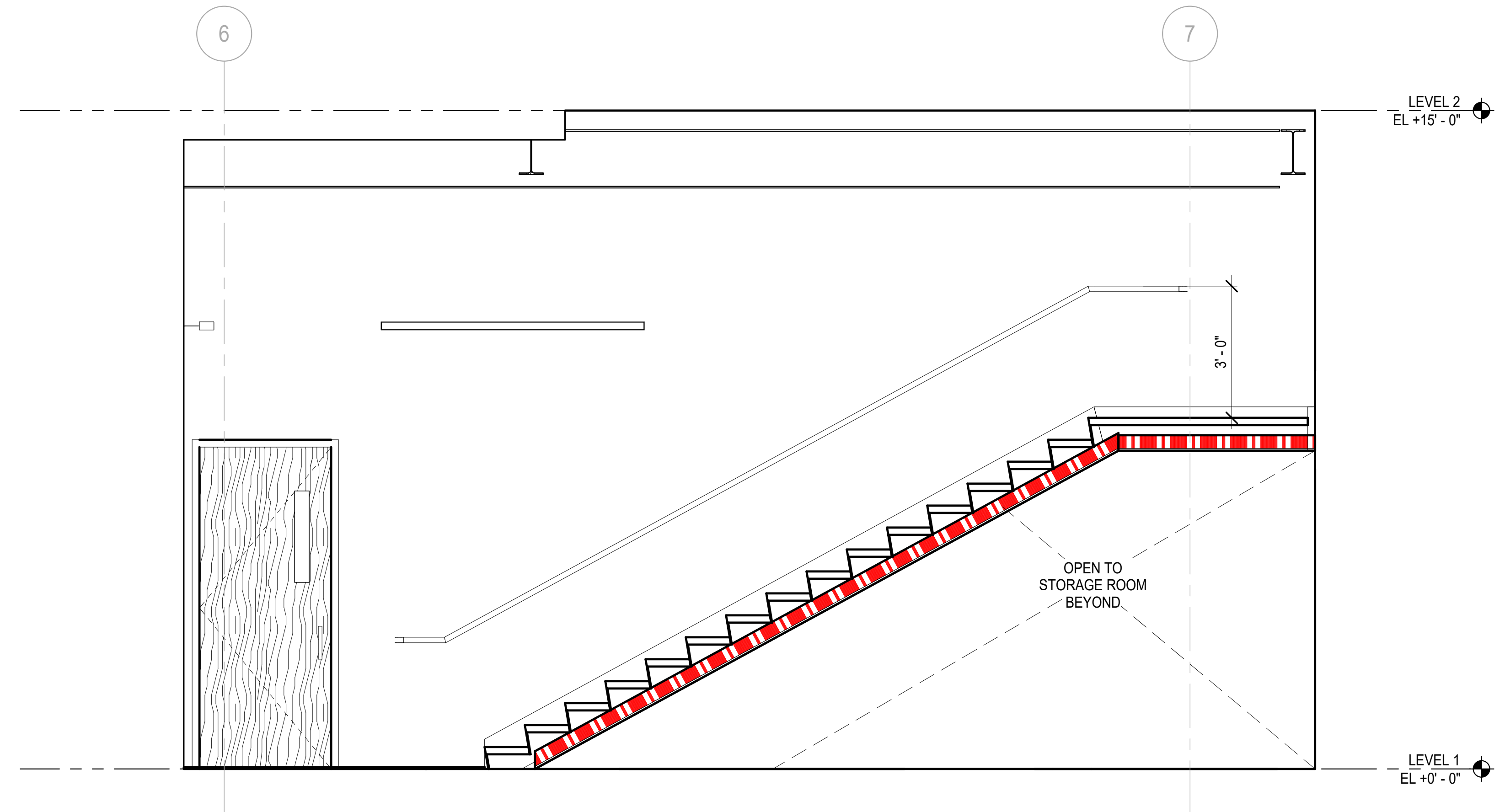
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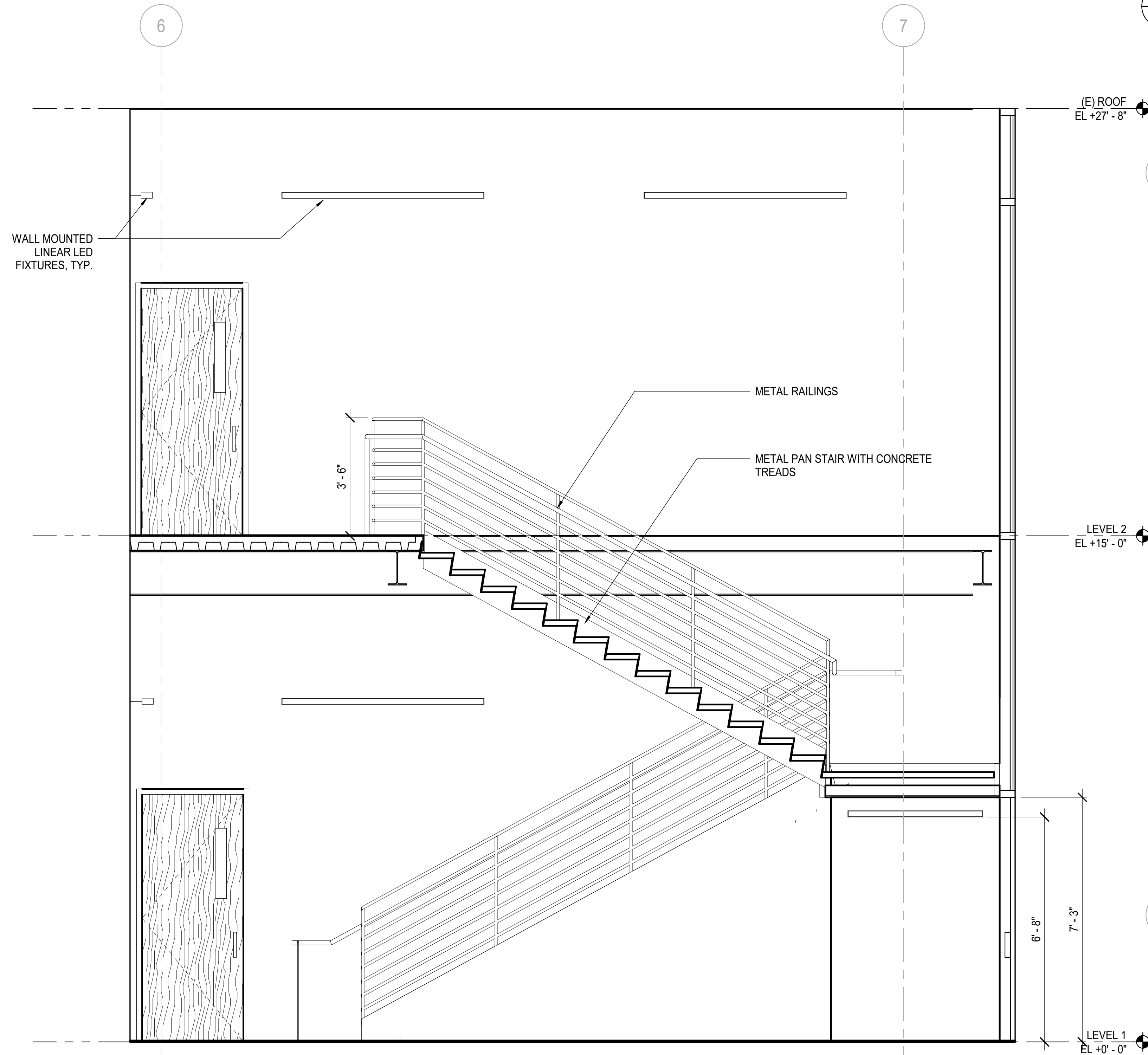
STAIR PLANS AND SECTIONS

Sheet Number

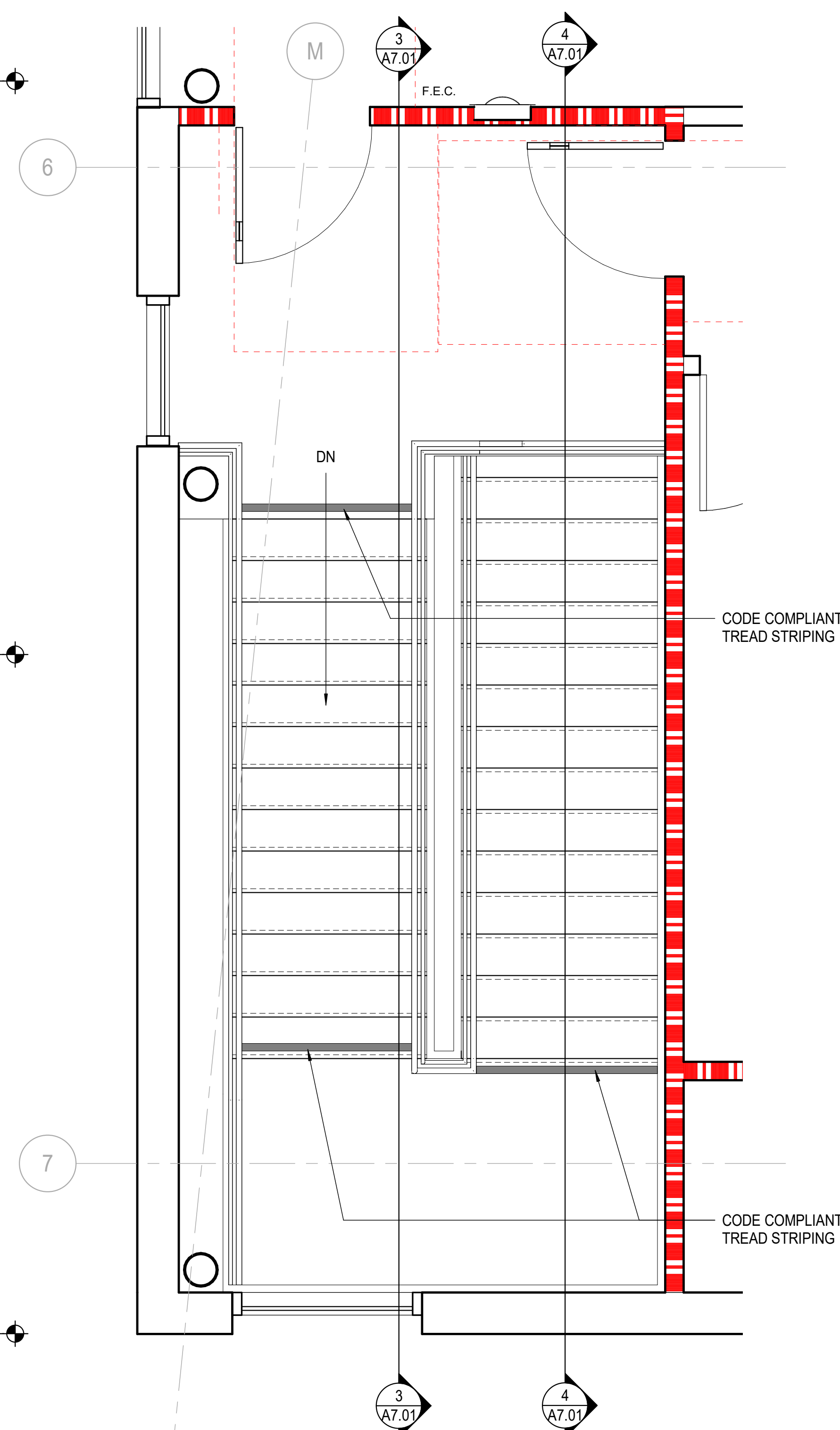
A7.01



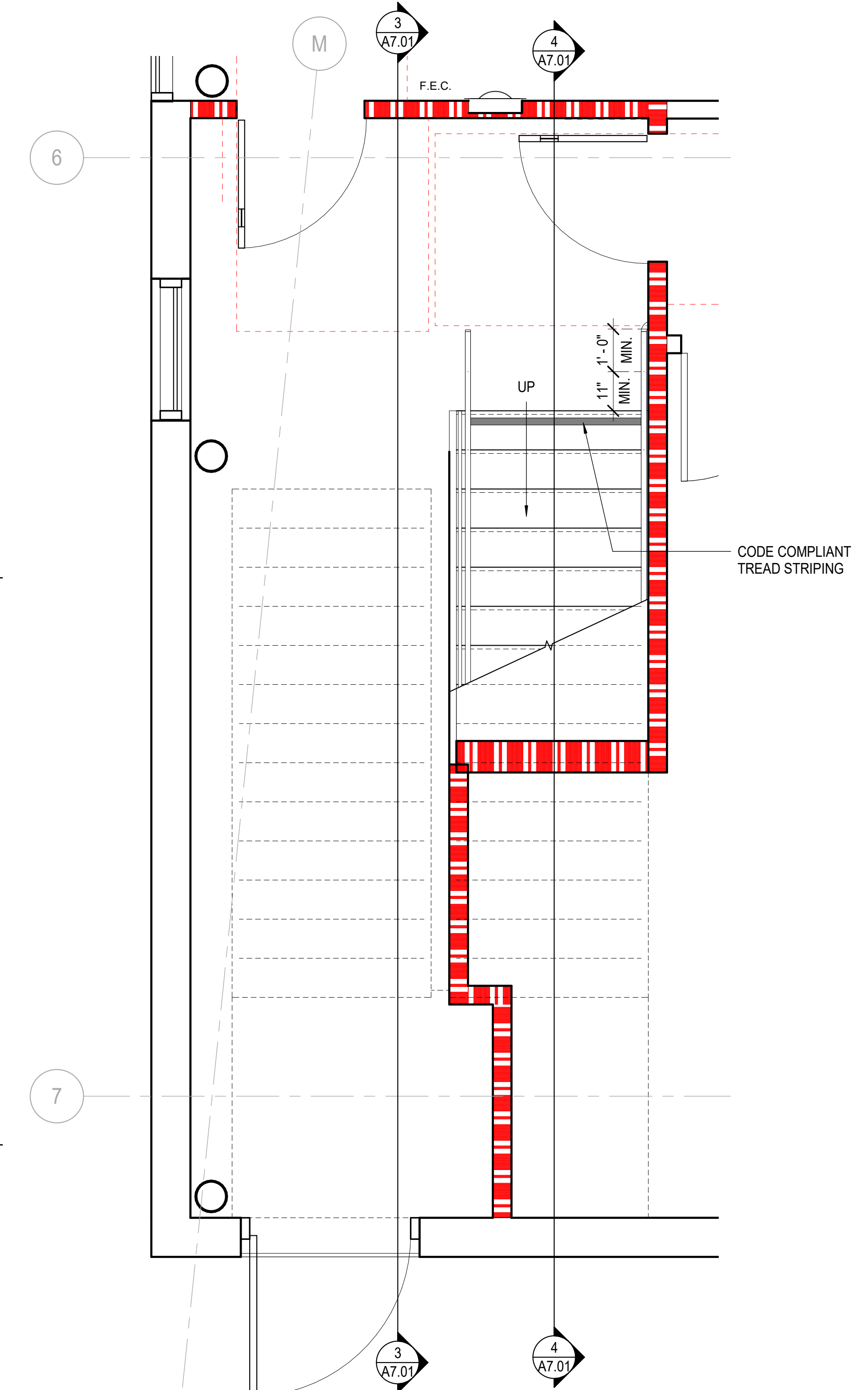
4 STAIR NORTH 2
A7.01 SCALE: 1/2" = 1'-0"



3 STAIR NORTH 1
A7.01 SCALE: 1/2" = 1'-0"

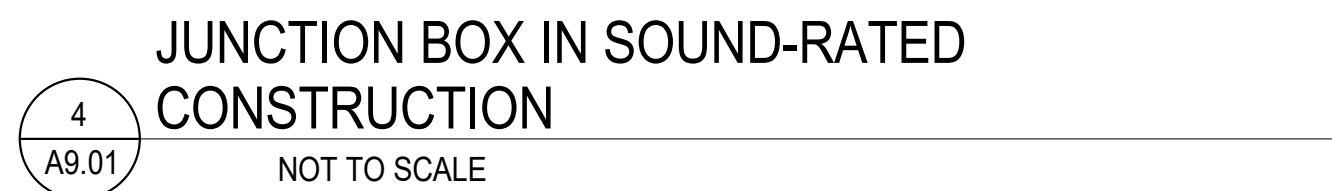


2 LEVEL 2 - ENLARGED STAIR PLAN
A7.01 SCALE: 1/2" = 1'-0"



1
A7.01

LEVEL 1 - ENLARGED STAIR PLAN
SCALE: 1/2" = 1'-0"



I. GENERAL NOTES

- A. REFER TO SPECIFICATIONS ON SHEET **50.2**. SPECIFICATIONS TAKE PRECEDENCE OVER THESE GENERAL NOTES IN THE EVENT OF CONFLICT.
- B. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, SPECIFICATIONS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE GENERAL CONTRACTOR (HEREINAFTER REFERRED TO AS "CONTRACTOR") AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- C. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO THE WORK OF THE ARCHITECT AND THROUGHOUT CONSTRUCTION.
- D. DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS, OR WHERE NO DIMENSION IS PROVIDED, CONSULT WITH THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- E. DIMENSIONING: THESE DOCUMENTS SHOULD BE CONSIDERED AS A PART OF THE COMPLETE DRAWING SET, INCLUDING DOCUMENTS OF ALL DISCIPLINES. IT IS INTENDED THAT THE STRUCTURAL DRAWINGS PROVIDE SUFFICIENT DIMENSIONS TO LOCATE THE PRIMARY STRUCTURAL ELEMENTS AND MEMBERS WHEN KNOWN. IF NOT PROVIDED, CONSULT WITH ARCHITECT FOR LOCATION OF SECONDARY MEMBERS, WHICH ARE AFFECTED BY SYSTEMS DETAILED BY OTHERS, MAY REQUIRE REFERENCE TO THE DRAWINGS OF OTHER DISCIPLINES AND LAYOUT AND COORDINATION BY THE CONTRACTOR. IF DIRECT CONFLICT BETWEEN THE DIMENSIONS OF TWO OR MORE DISCIPLINES IS ENCOUNTERED, SUCH CONFLICT SHALL BE RESOLVED BY THE ARCHITECT.
- F. FINISHED FLOOR ELEVATION, FLOOR DEPRESSIONS, ELEVATIONS: IT IS INTENDED THAT SUFFICIENT INFORMATION IS PROVIDED TO DETERMINE FLOOR FINISHES, FLOOR ELEVATIONS AND ELEMENTS AND/OR AT CHANGES IN FINISH FLOOR WHEN KNOWN. IF NOT PROVIDED, CONSULT WITH ARCHITECT. ELEVATIONS AT POINTS LOCATED BETWEEN PROVIDED ELEVATIONS MAY BE DETERMINED BY INTERPOLATION.
- G. DETAILS AND NOTES SHOWN ON THESE DRAWINGS SHALL APPLY AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS, IF APPROPRIATE DETAIL IS NOT CLEAR, CONTACT DCAEDULAS.
- H. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF BLOCKOUTS, EMBEDDED ITEMS, OPENINGS, SLOPES, DRAINS, PADS, CURBS, ETC. NOT PROVIDED ON THE STRUCTURAL DRAWINGS.
- I. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO ALL STRUCTURAL FABRICATIONS, PRIOR TO SUBMITTAL, THE SHOP DRAWINGS SHALL HAVE BEEN STAMPED INDICATING THAT THE CONTRACTOR HAS VERIFIED ALL QUANTITIES, DIMENSIONS, FIELD CONSTRUCTION CRITERIA, MATERIALS, AND OTHER RELEVANT DATA.
- J. THE CONTRACTOR MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED TO THE ARCHITECT FOR REVIEW DO NOT CONSTITUTE "IN WRITING". ALL REQUESTS ARE SUBJECT TO REVIEW AND APPROVAL BY THE OWNER.
- K. PIPES, DUCTS, SLEEVES, CHASIS, ETC. SHALL NOT BE PLACED IN CONCRETE FOUNDATION, SLABS, BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NO STRUCTURAL MEMBER WILL BE CUT FOR PIPES, DUCTS, ETC. IF SPECIFICALLY SHOWN, OBTAIN PRIOR WRITTEN APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
- L. THE USE OF NEW CONSTRUCTION FOR THE SUPPORT/STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE NEW CONSTRUCTION AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT, AS EVALUATED BY A LICENSED CALIFORNIA ENGINEER ENGAGED BY CONTRACTOR. PLACE MATERIAL OR EQUIPMENT SO AS NOT TO EXCEED THE CAPACITY OF INDIVIDUAL ELEMENTS. PROVIDE ADEQUATE SHORING TO MAINTAIN THE LICENSED CALIFORNIA CIVIL ENGINEER'S DESIGN CAPACITY IS NOT SUFFICIENT.
- M. ALL CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, **2019 EDITION** AS AMENDED BY THE **CITY OF CUPERTINO** AND TO THE STANDARDS REFERENCED THEREIN. A01 318, A02 360, A03 341, A04 7, NDS, A05 530, A06, AND ASTM.

II. MEANS AND METHODS

- A. THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INCLUDE THE MEANS, METHODS, PROCEDURES OR SEQUENCES OF CONSTRUCTION, MAINTAINING AND ENSURING THE INTEGRITY OF THE STRUCTURE AND SAFETY OF PERSONNEL THROUGHOUT THE CONSTRUCTION PERIOD IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, GUYS, AND BRACING. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, REGULATIONS, AND ORDINANCES.

III. DEMOLITION, SHORING AND TEMPORARY LATERAL BRACING

- A. SAFETY OF PERSONNEL AND PROPERTY DURING ANY DEMOLITION WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. BEFORE DEMOLITION BEGINS, THE CONTRACTOR SHALL INSPECT EXISTING CONSTRUCTION TO IDENTIFY DEFECTS AND STRUCTURAL WEAKNESSES WHICH MAY AFFECT THE CONSTRUCTION SAFETY. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT ALL DEFECTS AND WEAKNESSES ARE REMEDIED PRIOR TO PROCEEDING WITH THE DEMOLITION. THE STRUCTURAL ENGINEER MAKES NO REPRESENTATION AS TO STRUCTURAL INTEGRITY OF EXISTING STRUCTURES.

IV. HAZARDOUS MATERIALS IN EXISTING CONSTRUCTION

DAEDALUS ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF HAZARDOUS MATERIALS THAT MAY BE ON THE SITE OR WITHIN EXISTING BUILDINGS.

- A. DAEDALUS HAS NOT PERFORMED INVESTIGATIONS TO DETERMINE THE PRESENCE OF HAZARDOUS MATERIALS. THE OWNER WILL PROVIDE THE RESULTS OF SUCH INVESTIGATIONS IF THEY HAVE BEEN PERFORMED.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PERSONNEL WITHIN THE WORK AREA ARE PROTECTED FROM EXPOSURE TO HAZARDOUS MATERIALS. IF HAZARDOUS MATERIALS ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND CEASE WORK UNTIL CONDITIONS CAN BE MAINTAINED IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

V. SUBMITTALS

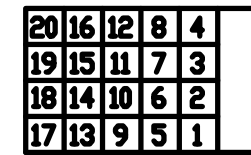
- A. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF CONSTRUCTION:
- a. REINFORCING STEEL MATERIAL TEST REPORTS
 - b. REINFORCING STEEL SHOP DRAWINGS
 - c. CONCRETE MIX DESIGN FOR EACH CLASS OF CONCRETE WHICH SHALL INCLUDE:
 - i. LABORATORY TEST REPORT FOR CONCRETE MIXES
 - ii. MATERIAL CERTIFICATES FOR CONCRETE MATERIALS, INCLUDING CEMENTS, AGGREGATES, AND ADMIXTURES
 - iii. PRODUCT DATA FOR FOR PROPRIETARY MATERIALS AND ITEMS
 - d. STRUCTURAL STEEL SHOP DRAWINGS
 - e. WELDING PROCEDURE SPECIFICATION

VI. QUALITY ASSURANCE

- A. THE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS, ACCEPTABLE TO THE ENFORCEMENT AGENCY AND TO PERFORM INSPECTIONS IN ACCORDANCE WITH SECTIONS 104.4, 110, AND CHAPTER 17 OF THE CBC. THE ITEMS REQUIRED FOR SPECIAL INSPECTION ON THIS PROJECT INCLUDE THE FOLLOWING:
1. ENGINEERED FILL
 2. STRUCTURAL EXCAVATION
 3. CONCRETE REINFORCING STEEL PLACEMENT
 4. CONCRETE PLACEMENT
 5. STRUCTURAL STEEL WELDING
 6. STRUCTURAL STEEL HIGH STRENGTH BOLTING
 7. WOOD FRAMING (HOLD DOWN, THE DOWN AND ALL OTHER SEISMIC OR OTHERS)
 8. PLYWOOD NAILING - PERIODIC, WHERE NAIL SPACING IS 4" OR SMALLER
 9. INSTALLATION & TESTING OF EXPANSION ANCHORS & ANCHORS IN CHEMICAL ADHESIVE.
- B. SPECIAL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS. INSPECTORS WILL THOROUGHLY REVIEW APPLICABLE PORTIONS OF THE CONSTRUCTION DOCUMENTS. INSPECTORS WILL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY CBC SECTIONS 104.4, 110, AND CHAPTER 17.
- C. THE STRUCTURAL ENGINEER WILL PERIODICALLY REVIEW THE PROGRESS OF THE WORK FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. HOWEVER, THIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER FOR STRUCTURAL OBSERVATIONS OF THE FOLLOWING ITEMS AT LEAST 48 HOURS PRIOR TO PROCEEDING WITH WORK THAT WOULD PREVENT OBSERVATION, UNLESS OTHERWISE NOTED:
1. FOUNDATION EXCAVATIONS AND REINFORCING STEEL PLACEMENT (PRIOR TO CONCRETE PLACEMENT)
 2. REINFORCING STEEL FOR MASONRY WALLS (PRIOR TO PLACEMENT OF MASONRY BLOCKS)
 3. WOOD FRAMED WALLS (PRIOR TO INSTALLING PLYWOOD OR FINISHES ON THE SECOND SIDE)
 4. THE COMPLETE STRUCTURAL SYSTEMS (PRIOR TO INSTALLING ARCHITECTURAL FINISHES)
- D. THE GEOTECHNICAL ENGINEER OF RECORD WILL OBSERVE ALL PAD CONSTRUCTION, PLACEMENT/COMPACTON OF ENGINEERING FILL, FOUNDATION EXCAVATION, JUST PRIOR TO THE SPECIAL PLACEMENT AND PER EXCAVATIONS DURING DRILLING TO VERIFY COMPLIANCE WITH THE INTENT OF THE GEOTECHNICAL INVESTIGATION

VIII. DETAIL NUMBERING:

THE BLOCKS ARE NOT DRAWN ON DETAIL SHEETS BUT THE NUMBERS MORE OR LESS CORRESPOND TO THE NUMBERING SYSTEM USED FOR DETAILS ON THE DRAWINGS.



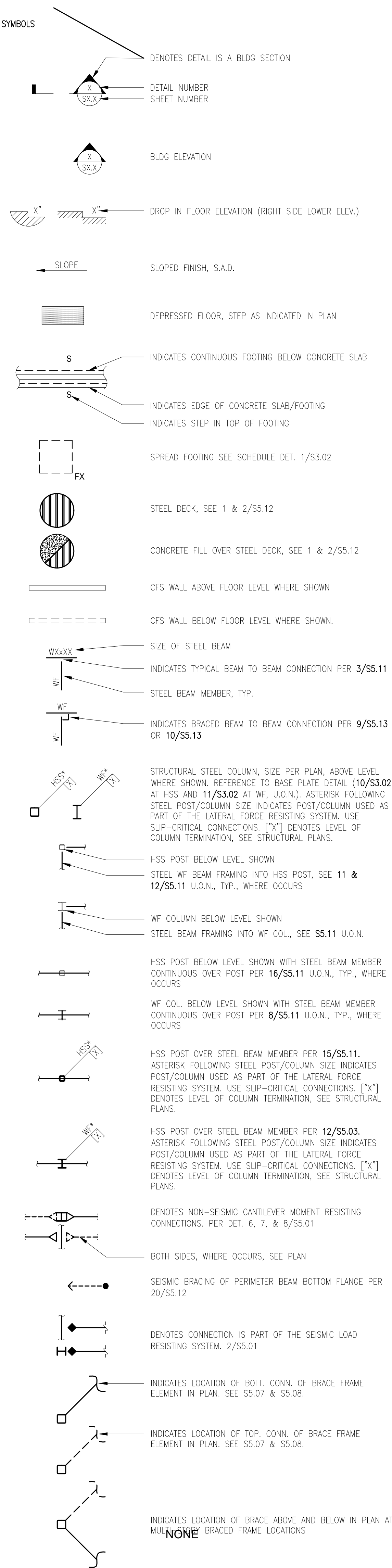
WHERE MORE THAN ONE BLOCK AREA IS USED FOR A SINGLE DETAIL, THE NUMBER CORRESPONDING TO THE BLOCK AT THE BOTTOM RIGHT CORNER OF DETAIL SHALL BE USED. BLOCK POSITIONS MAY VARY SLIGHTLY.

VIII. ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS MAY BE USED IN THESE DRAWINGS TO DENOTE THE WORDS INDICATED

C	CENTERLINE	INFO.	INFORMATION
D	DEGREES	INSUL.	INSULATION
Ø	DIAMETER		INTERIOR
(E)	EXISTING	K.P.	KING POST
(N)	NEW	K.S.	KING STUD
# OR NO.	NUMBER		
L	PERPENDICULAR	L.H.	LONG LEG HORIZONTAL
L.P.'S	PLATE(S)	L.L.V.	LONG LEG VERTICAL
±	PLUS OR MINUS	LONG.	LONGITUDINAL
W	WITH	L.P.	LOW POINT
W/O	WITHOUT	L.W.	LIGHT WEIGHT
A.B.	ANCHOR BOLT	MAX.	MAXIMUM
ABV.	ABOVE	M.B.	MACHINE BOLT
ADD.	ADDITIONAL	M.F.	MANUFACTURER
ADJ.	ADJUST	MD.	MODIFIED
A.E.S.S.	ARCHITECTURALLY EXPOSED	MIN.	MINIMUM
	STRUCTURAL STEEL	MISC.	MISCELLANEOUS
A.F.F.	ABOVE FINISH FLOOR		
ALT.	ALTERNATE	N	NORTH
APPROX.	APPROXIMATE	N.F.	NEAR FACE
ARCH	ARCHITECT	N.I.C.	NOT-IN-CONTRACT
		N.S.	NEAR SIDE
		N.T.S.	NOT-TO-SCALE
		N.W.	NORMAL WEIGHT
BLDG	BUILDING	O.C.	ON CENTER
BLK'G	BLOCKING	O.D.	OUTSIDE DIAMETER
BLW	BELOW	O.D.	OUTSIDE OF
BM	BEAM	O.H.	OPPOSITE HAMMER
B.N.	BOUNDARY NAIL	O.O.	OPPOSITE
BY	BY OTHERS	OP'G	OPENING
BOTT.	BOTTOM	OPT.	OPTIONAL
B.O.S.	BOTTOM OF STEEL	OPP.	OPPOSITE
B.T.G.	BEARING		
BTWN	BETWEEN	P.A.F.	POWDER-ACTUATED FASTENER
CANT.	CANTILEVER	PEN.	PENETRATING
CENT.	CENTER	PERP.	PERPENDICULAR
C.F.S.	COLD-FORMED STEEL	P.J.P.	PARTIAL JOINT PENETRATION
C.I.P.	CAST-IN-PLACE	P.L.	PROPER LINE
C.J.	CEILING JOINT	P.B'G	PLUMBING
C.J.P.	CLOSED JOINT PENETRATION	P.LY	PLYWOOD
CLG	CEILING	P.P.	PARTIAL PENETRATION
CLR	CLEAR	P.S.F.	POUNDS PER SQUARE FOOT
CMJ	COMBINED MASONRY UNIT	P.S.I.	POUNDS PER SQUARE INCH
COL	COLUMN	P/T	POST-TENSIONED
CONC.	CONCRETE	P.T.	PRESSURE TREATED
CONJ.	CONJUNCTION	P.T.D.F.	PRESSURE TREATED DOUGLASS
CONST.	CONSTRUCTION		
CONT.	CONTINUOUS	R.O.	RADIUS
		RE.	REGARDING
DBL	DOUBLE	RECT.	RECTANGLE
DEMO.	DEMOLITION	REF.	REFER, REFERENCE
DET.	DETAIL	REF.	REINFORCING
DIA.	DIAMETER	REQ'D, REQ'S	REQUIRED, REQUIREMENTS
DIAG.	DIAGONAL	RET'D	RETAINED
DIR.	DIRECTION	REV.	REVISION
DN	DOWN	RM.	ROOM
DWG, DWG'S	DRAWING(S)	R.O.	ROUGH OPENING
EA.	EACH	S.A.D.	SEE ARCHITECTURAL DRAWING
E.F.	EACH FACE	S.C.D.	SEE CIVIL DRAWINGS
EFF.	EFFECT	SCH.	SCHEDULE
E.L.	ELEVATION	SCH., SCHED.	SINGLE
EMBED.	EMBEDMENT, EMBEDDED	SH'G	SHEDDING
E.O.S.	EDGE OF SLAB	SHR	SHEAR
E.O.R.	ENGINEER OF RECORD	SHR	SHEAR
E.Q.	EQUAL	SHR	SIMILAR
EQUIV.	EQUIVALENT	S.L.D.	SEE LANDSCAPE DRAWINGS
ETC.	ETCETERA	SEE M.C.M.D.	SEE MECHANICAL DRAWINGS
E.W.	EACH WAY	S.O.G.	SLAB-ON-GRADE
EXP.	EXPANDING	SPC'G	SPACING
EXT.	EXTERIOR	SPEC.	SPECIFICATION
		SQ.	SQUARE
FON.	FOUNDATION	S.S.	STAINLESS STEEL
F.F.	FINISHED FLOOR	STD.	STANDARD
F.G.	FINISH GRADE	STL	STEEL
FIN.	FINISH	SUSP.	SUSPENDED
F.L.R.	FLOOR	SW	SHEAR WALL
F.O.C.	FACE OF CONCRETE	SYM.	SYMMETRICAL
F.O.S.	FACE OF STUD		
FRMG.	FRAMING	TH, THK	THICK, THICKNESS
F.S.	FACE SIDE	T.O.	TOP OF
F.T.	FOOT OR FEET	T.O.C.	TOP OF CONCRETE
FTG	FOOTING	T.O.F.	TOP OF FOOTING
		T.O.S.	TOP OF STEEL
		T.O.W.	TOP OF WALL
GA.	GAGE, GAGE	TRANS.	TRANSVERSE
GLB	GLULAM BEAM	TYPE.	TYPICAL
GR.	GRADE		
		U.O.N.	UNLESS OTHERWISE NOTED
H.	HOLLOW		
H.D.	HOLD	VERT.	VERTICAL
HORIZ.	HORIZONTAL	V.F.I.	VERIFY IN FIELD
H.P.	HIGH POINT		
H.S.	HIGH-STRENGTH	W.P.	WORK POINT
HT	HEIGHT	WF	WIDE FLANGE
		WRTD	WITH RESPECT TO
I.D.	INSIDE DIAMETER		
I.F.	INSIDE FACE		

IX. SYMBOLS



X. STRUCTURAL DRAWING LIST

S0.11	STRUCTURAL GENERAL NOTES
S0.12	STRUCTURAL GENERAL NOTES
S2.11	FOUNDATION PLAN/SECOND FLOOR FRAMING PLAN
S2.12	ROOF FRAMING PLAN
S2.21	BRACE FRAME ELEVATIONS
S3.11	TYPICAL CONCRETE DETAILS
S3.12	TYPICAL CONCRETE DETAILS

S5.11	TYPICAL STEEL DETAILS
S5.12	TYPICAL STEEL DETAILS
S5.13	TYPICAL STEEL DETAILS
S5.21	TYPICAL COLD-FORMED STEEL DETAILS
S5.22	TYPICAL COLD-FORMED STEEL DETAILS

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Sheet Title

GENERAL NOTES

Sheet Number

S0.11

I. DESIGN CRITERIA			
A. APPLICABLE CODE: CALIFORNIA BUILDING CODE, 2019 EDITION AS AMENDED BY THE CITY OF CUPERTINO.			
B. VERTICAL LOADS:			
1. DEAD LOADS:			
FLAT ROOF	27.5 PSF		
FLAT ROOF AT MECHANICAL EQUIPMENT	130.0 PSF		
SECOND FLOOR	62.5 PSF		
EXTERIOR WALLS	15.0 PSF		
2. LIVE LOADS:			
ROOF	20.0 PSF		
FLOOR	50.0 PSF		
PARTITIONS	15.0 PSF		
C. LATERAL LOADS:			
1. SEISMIC:			
RISK CATEGORY	II		
SEISMIC IMPORTANCE FACTOR (I _e)	1.0		
SITE CLASSIFICATION	D		
ANALYSIS PROCEDURE	D		
EQUIVALENT LATERAL FORCE (E _l F)			
MAPPED SPECTRAL RESPONSE PARAMETERS			
SHORT PERIOD (S _s)	2.002		
LONG PERIOD (S ₁)	0.714		
SITE COEFFICIENTS			
SHORT PERIOD (F _a)	1.0		
LONG PERIOD (F _v)	1.5		
DESIGN SPECTRAL RESPONSE PARAMETERS			
SHORT PERIOD (SDS = $\frac{2}{3}S_s \times F_a$)	1.335		
LONG PERIOD (SD1 = $\frac{2}{3}S_1 \times F_v$)	0.714		
RESPONSE MODIFICATION FACTOR (R)	6	(SPECIAL STEEL CONCENTRICALLY BRACED FRAME)	
OVERSTRENGTH FACTOR (O)	2		
REDUNDANCY FACTOR (ϕ)	1.3		
SEISMIC BASE SHEAR (V) [LRFD]	0.222W		
	XX.X KIPS		
2. WIND:			
V-WIND (3-SEC. GUST)	110 MPH		
V-ASD	85 MPH		
RISK CATEGORY	II		
EXPOSURE CATEGORY	II		
INTERNAL PRESSURE COEFFICIENT	±0.18		
DESIGN WIND SPEED	110 MPH		
MAXIMUM WIND LOAD [LRFD]	12.1 PSF (MWFRS – WINDWARD)		
	5.9 PSF (MWFRS – LEEWARD)		
	16.0 PSF (ROOF ZONE 1, 2, 3 +)		
	16.0 PSF (ROOF ZONE 1 –)		
	27.5 PSF (ROOF ZONE 2 –)		
	44.5 PSF (ROOF ZONE 3 –)		

II. FOUNDATION DESIGN

- A. GEOTECHNICAL RECOMMENDATIONS: AS PRESENTED IN A REPORT TITLED, "GEOTECHNICAL INVESTIGATION, XXXXXXXXXXXX, XXXXXXXXXXXX, ATHERTON, CALIFORNIA 94027", PREPARED BY ROMIG ENGINEERS INC. (PROJECT NO. 4683-1), 1390 EL CAMINO REAL, SECOND FLOOR, SAN CARLOS, CALIFORNIA 94070, PHONE 650.591.5224 AND DATED MARCH 8, 2019.
- B. SHALLOW FOUNDATIONS IN FIRM NATIVE SOIL ALLOWABLE BEARING PRESSURE (PSF)
- DEAD + LIVE: 2500
- DEAD + LIVE + SEISMIC 3300
- C. SHALLOW FOUNDATION IN FIRM NATIVE SOIL MODULUS OF SUBGRADE REACTION (PCI) = 35
- D. LATERAL FORCE TRANSFERRED TO SOILS:
1. COEFFICIENT OF FRICTION EQUAL TO 0.30 (SHALLOW FOUNDATIONS)
2. PASSIVE RESISTANCE: EQUIV. FLUID PRESS. = 250 PCF (SHALLOW FOUNDATIONS)²
1. PASSIVE PRESSURE ACTS AGAINST SHALLOW FOOTINGS CAST NEAT IN A FOUNDATION EXCAVATION OR SHORED EXCAVATION.
2. NEGLECT UPPER FOOT OF PASSIVE SOIL RESISTANCE.
- H. SETTLEMENT:
- TOTAL SETTLEMENT: 1-INCH ACROSS STRUCTURE (30 YEAR STATIO)
- TOTAL SETTLEMENT: ½-INCH TO ¾-INCH (LIQUIFACTION)
- DIFFERENTIAL SETTLEMENT: ½-INCH ACROSS STRUCTURE (LIQUIFACTION)

- I. I. REFER TO SOILS REPORT FOR DETAILED RECOMMENDATIONS.

III. CAST-IN-PLACE CONCRETE SPECIFICATIONS

- A. GENERAL:
1. CODE: COMPLY WITH ACI 318-14
- B. SUBMITTALS
1. SUBMIT THE FOLLOWING TO THE ARCHITECT FOR REVIEW U.O.N.
2. SUBMIT MIX DESIGN FOR EACH CONCRETE "MAX 10" TO THE ARCHITECT
- AND OWNER'S INSPECTION AND TESTING LABORATORY
3. COMPRESSION TEST DATA (FIELD EXPERIENCE METHOD) USED TO ESTABLISH MIX PROPORTIONS.
4. SUBMIT DELIVERY TICKETS TO OWNER'S TESTING LABORATORY AND ARCHITECT FOR EACH BATCH OF CONCRETE DELIVERED TO THE JOB SITE, BEARING THE FOLLOWING INFORMATION. REFER TO QUALITY ASSURANCE PARAGRAPH.
- a. MIX IDENTIFICATION, WEIGHT OF CEMENT, AGGREGATE, ADMIXTURES, WATER ADDED AT THE BATCH PLANT, WATER ADDED AT SITE (ONLY WITH ENGINEERS APPROVAL).
5. LABORATORY COMPRESSION TEST REPORTS FOR CONCRETE MIXES.
- C. CONCRETE MATERIALS
1. CEMENTITIOUS MATERIALS AND AGGREGATES SHALL HAVE PROVEN HISTORY OF SUCCESSFUL USE TOGETHER, OR SUBMIT EVIDENCE SATISFACTORY TO ARCHITECT THAT AGGREGATE WILL NOT REACT HARMFULLY IN PRESENCE OF ALKALIZE IN CEMENT.
2. CEMENTITIOUS MATERIAL: AN INTIMATE BLEND OF PORTLAND CEMENT AND FLY ASH AND/OR SLAG
- a. PORTLAND CEMENT: ASTM C150, TYPE II, LOW ALKALI (U.O.N.)
- b. FLY ASH: ASTM C618, CLASS F, EXCEPT MAXIMUM LOSS ON IGNITION SHALL BE 2.5% AND MAXIMUM RETAINED ON NO. 325 SIEVE SHALL BE 30% PLUS OR MINUS 2%
- c. GROUND GRANULATED BLAST FURNACE SLAG (SLAG): ASTM C989, GRADE 120
- d. FLY ASH AND/OR SLAG CONTENT SHALL BE AS SPECIFIED IN THE SCHEDULE OF CONCRETE MIXES.
3. FINE AND COARSE AGGREGATES FOR NORMAL WEIGHT CONCRETE: ASTM C333.
- STANDARD AGGREGATES TO COMPLY WITH CBC SECTION 1705.11 AND ACI SECTION 3.3.
- a. SAND EQUIVALENT SHALL NOT BE LESS THAN 75 WHEN TESTED IN ACCORDANCE WITH CALIFORNIA CALTRANS TEST 217.
- b. FINE AGGREGATE FOR PUMPED CONCRETE: ASTM C33, EXCEPT THE PERCENT PASSING THE #100 SIEVE SHALL RANGE FROM 5 TO 10%.
- c. COARSE AGGREGATE: COARSENESS VALUE SHALL NOT BE LESS THAN 75 WHEN TESTED IN ACCORDANCE WITH CALIFORNIA CALTRANS TEST 227.
- d. COARSE AGGREGATE FOR SHRINKAGE CONTROLLED CONCRETE: GRANITE OR LIMESTONE FROM RELIABLE SOURCE WITH PROVEN HISTORY OF USE IN SHRINKAGE CONTROLLED CONCRETE.
4. WATER REDUCING ADMIXTURE: PERMITTED TO FACILITATE CONCRETE PLACEMENT. ASTM C494, TYPE A, WR18 BY GCP APPLIED TECHNOLOGIES, MASTERPROZOLITH 322 OR POLYHEED-H BY MASTER BUILDERS, INC., OR APPROVED EQUAL.
5. HIGH RANGE WATER REDUCING ADMIXTURE: USE IF SPECIFIED. ASTM C494, TYPE F OR G. ADVA FLUX, WR18-19 OR DARPUCE-100 BY GCP APPLIED TECHNOLOGIES, RHEOBUILD -3000FC OR RHEOBUILD-1000 BY MASTER BUILDERS, INC., OR APPROVED EQUAL.
6. AIR ENTRAINMENT: ASTM C260, DO NOT EXCEED 4%. DARVAIR 1000 BY GCP APPLIED TECHNOLOGIES MICRO-AIR BY MASTER BUILDERS, INC. OR EQUAL.
7. GRANULAR BASE: ¾" CLEAN CRUSHED ROCK WITH NO MORE THAN 5% PASSING NO. 200 SIEVE.
8. VAPOR RETARDER: STEGOWRAP BY STEGO IND., ASTM E1745, Class A, 15 MIL.
9. MAT FOUNDATION AND RETAINING WALL WATER PROOFING. SEE ARCHITECTURAL DRAWINGS FOR RECOMMENDATIONS.
10. SAND: CLEAN 100% PASSING NO. 4 AND 5% MAX PASSING NO. 200 SIEVES.
11. LIQUID MEMBRANE-FORMING CURING COMPOUND: ASTM C309, TYPE 1B, CLASS WATER-BASED, DISPERSING RESIN, PRODUCT: AQUA RESIN CURE BY BURKE CO. OR EQUAL.
12. REINFORCING STEEL: ASTM A615 GRADE 60, TYPICAL.
13. EPOXY-COATED REINFORCING STEEL: ASTM A775/A775M OR ASTM A615 WITH EPOXY COATING BY A CRSI CERTIFIED COATING PLANT. BAR SUPPORTS, TIES AND SPACERS IN CONTACT WITH EPOXY-COATED REBAR SHALL BE EPOXY-COATED. FIELD MODIFICATION OF BARS IS NOT ALLOWED. EPOXY-COATED REBAR SHALL NOT BE STORED TOGETHER WITH UNCOATED CARBON STEEL REBAR AND BE PROTECTED FROM CONDENSATION AND CORROSIVE MATERIALS.

- D. CONCRETE MIXES
1. CONCRETE PROPORTIONING AND PLACEMENT SHALL BE IN ACCORDANCE WITH CBC SECTION 1905 AND APPLICABLE ACI CODES AND STANDARDS.
2. CONCRETE MIXES SHALL BE DESIGNED BY A TESTING LABORATORY OR BY A RECOGNIZED SUPPLIER.
3. MIX DESIGNS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS, REGARDLESS OF ANY OTHER MINIMUM REQUIREMENTS LISTED HEREIN OR IN THE DRAWINGS. COMPLY WITH CBC SECTION 1905.3.
4. SCHEDULE OF CONCRETE MIXES:
- | MIX TYPE | USE | STRENGTH STANDARDS | AGGREGATE SIZE | SUMP REQUIREMENTS |
|----------|---------------|--------------------|----------------|-------------------|
| A | FOUNDATIONS | 5000 | SIZE 57 (1") | 3-5 4.5-5 |
| B | S.O.G., CURBS | 3500 | SIZE 57 (1") | 2-4 d1,2,3,4,5 |
- a. STRENGTH: MINIMUM COMPRESSIVE STRENGTH IN PSI AFTER 28 DAYS, EXCEPT STRENGTH AFTER 56 DAYS FOR MIXES CONTAINING A MINIMUM OF 15 PERCENT FLY ASH, TESTED IN ACCORDANCE WITH ASTM C39.
- b. AGGREGATE: COARSE AGGREGATE SIZE NUMBER IN ACCORDANCE WITH ASTM C33 FOR NORMAL-WEIGHT AGGREGATE.
- c. SLUMP: MINIMUM-MAXIMUM SLUMP AT POINT OF PLACEMENT IN INCHES WHEN TESTED IN ACCORDANCE WITH ASTM C143. SEE "OTHER REQUIREMENTS" FOR SLUMP WITH HIGH RANGE WATER REDUCER.
- d. OTHER REQUIREMENTS (APPLY ONLY AS NOTED IN SCHEDULE OF CONCRETE MIXES):
- d.1. FLY ASH AND/OR SLAG SHALL MAKE UP 25% TO 50% OF TOTAL CEMENTITIOUS MATERIAL WITH FLY ASH CONTENT NOT TO EXCEED 25% OF TOTAL CEMENTITIOUS MATERIAL.
- d.2. SHRINKAGE CONTROLLED CONCRETE: USE GRANITE OR LIMESTONE AGGREGATES. PROPORTION MIX TO MINIMIZE DRYING SHRINKAGE.
- d.3. CEMENT FACTOR: MATERIAL CONTENT-540 POUNDS PER CUBIC YARD.
- d.4. MIX SHALL CONTAIN SPECIFIED HIGH RANGE WATER REDUCING ADMIXTURE (HRWR). THE CONCRETE SHALL BE PROPORTIONED WITHOUT HRWR TO ACHIEVE A SLUMP OF 1 TO 3 INCHES AT THE MIXER. ADD HRWR TO ACHIEVE THE DEGREE OF WORKABILITY NECESSARY FOR PLACEMENT, NOT TO EXCEED 8 INCHES SLUMP AT THE POINT OF PLACEMENT.
- d.5. WATER CEMENT RATIO: MIX SHALL HAVE A WATER TO CEMENTITIOUS MATERIAL RATIO BY WEIGHT NOT EXCEEDING 0.50 FOR FOUNDATIONS AND 0.40 FOR SLAB-ON-GRADE AND CURBS.

E. PLACEMENT

1. SPRAY FORMS WITH WATER IMMEDIATELY PRIOR TO CASTING. THOROUGHLY WET SUBGRADE PRIOR TO PLACING FOUNDATION CONCRETE. MOSTEN, BUT DO NOT SATURATE. SAND OR ROCK UNDER SLAB-ON-GRADE OR MAT FOUNDATION BEFORE PLACING CONCRETE.
2. PLACING CONCRETE:
- a. CONSOLIDATE PLACED CONCRETE BY MECHANICAL VIBRATING. NO VIBRATING OF FORM IS ALLOWED. USE EQUIPMENT AND PROCEDURES FOR CONCRETE CONSOLIDATION COMPLYING WITH ACI 309.
3. DELIVERY TICKETS: SUBMIT 1 COPY OF DELIVERY TICKETS, AS REQUIRED BY ASTM C94 CURRENT EDITION, TO THE ARCHITECT.
4. SLAB FINISHES
- a. SLAB-ON-GRADE: AS DIRECTED BY ARCHITECT. OBTAIN WRITTEN DIRECTION PRIOR TO PLACEMENT.
- b. MAT FOUNDATION: AS DIRECTED BY ARCHITECT. OBTAIN WRITTEN DIRECTION PRIOR TO PLACEMENT.
- c. EXTERIOR SLABS: NONSLIP BROOM.
- F. CURING AND PROTECTION

1. GENERAL: START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. KEEP CONCRETE CONTINUOUSLY MOIST FOR SEVEN DAYS MINIMUM AFTER PLACEMENT.
2. CURING METHODS: ACCOMPLISH CURING BY MOIST CURING, MOISTURE RETAINING COVER, COMPOUND CURING, OR BY COMBINATION OF THESE METHODS.
3. LIQUID MEMBRANE-FORMING COMPOUND CURING: APPLY COMPOUND AS SOON AS FINAL FINISHING OPERATIONS ARE COMPLETE (WITHIN 1 HOUR AFTER SURFACE SHEEN HAS DISAPPEARED), UNIFORMLY APPLY TWO COATS OF COMPOUND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

G. CONSTRUCTION OR SAWCUT JOINTS

1. IF JOINT PATTERN IS NOT SHOWN FOR SLAB-ON-GRADE, PROVIDE JOINTS TO CREATE APPROXIMATELY SQUARE PANELS NOT EXCEEDING 15 FEET IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHENEVER POSSIBLE. (COLUMN CENTERLINES, HALF BAYS, ETC.)
2. SAWCUT AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATES BEING DISLOOSED BY SAW BUT WITHIN 12 HOURS OF PLACEMENT.
3. PERFORM ALL CUTS CLEANLY AND SMOOTHLY TO A CONSTANT AND EQUAL DEPTH IN AS CONTINUOUS AN OPERATION AS POSSIBLE TO AVOID MISALIGNMENT OF JOINTS. USE ONLY EXPERIENCED PERSONNEL AND FORMS OR TEMPLATES AS REQUIRED TO ACHIEVE CONSISTENT STRAIGHT LINES.

H. QUALITY ASSURANCE

1. THE OWNER'S TESTING AND INSPECTION LABORATORY WILL:
- a. REVIEW MIX DESIGNS AND CERTIFICATES OF COMPLIANCE FOR MATERIALS CONTRACTOR PROPOSES TO USE, TWO WEEKS MINIMUM IN ADVANCE OF FIRST POUR.
- b. INSPECT REINFORCING BAR PLACEMENT FOR CONFORMANCE WITH CONSTRUCTION DRAWINGS.
- c. COLLECT AND REVIEW TICKETS FOR EACH BATCH OF CONCRETE DELIVERED TO JOB SITE.
- d. INSPECT CONCRETE PLACEMENT AS REQUIRED BY CBC SECTION 1704.
- e. SLUMP: ASTM C143, ONE TEST AT POINT OF PLACEMENT AT START OF EACH DAY'S POUR; ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO HAVE CHANGED.
- e. COMPRESSIVE STRENGTH: TEST CONCRETE FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH CBC SECTION 1705.3, ASTM C39.

I. STRUCTURAL STEEL SPECIFICATION**A. GENERAL**

1. CODE: COMPLY WITH ANSI/AISC 360-10 & ASSOCIATED RCSC, AND ANSI/AISC 341-10 FOR ALL TOLERANCES, EDGE DISTANCES, SPACING, MINIMUM WELD SIZES, AND OTHER DETAILS & INFORMATION NOT PROVIDED.
2. AESS: COMPLY WITH ANSI/AISC 303-10 FOR ALL EXPOSED STEEL
3. SEE "STEEL FRAMING NOTES" ON SHEET SS.1 FOR ADDITIONAL STEEL FRAMING REQUIREMENTS.

B. MATERIALS

1. GENERAL: ALL STEEL SHALL BE IDENTIFIED AS REQUIRED BY CBC SECTION 2203.1. STEEL WHICH IS NOT PROPERLY IDENTIFIED SHALL BE TESTED TO SHOW CONFORMANCE WITH REQUIREMENTS OF APPLICABLE ASTM STANDARD AT CONTRACTOR'S EXPENSE.
2. PLATES: A36 OR A572 GR. 50
1. SHAPES:
- | | |
|---------|--------|
| W.W.T | A992 |
| C.M.C.L | A36 |
| H.S.S | A325-N |
| A307 | |
3. MACHINE BOLTS: A307, A36, OR F1554 GR. 36 (EXCEPT AS OTHERWISE NOTED).
4. ANCHOR BOLTS: A307, A36, OR F1554 GR. 36 (EXCEPT AS OTHERWISE NOTED).
5. STRUCTURAL TUBES:
- | | |
|-----------------|----------------------|
| HSS 50. & RECT. | A500, GR. B (46 KSI) |
| HSS ROUND | A500, GR. B (42 KSI) |
| PIPE | A53, TYPE S, OR, E |
8. WELDING FILLER MATERIAL: AWS D1.1, TYPE REQUIRED FOR BASE METALS BEING WELDED. ELECTRODES SHALL BE E70XX, LOW HYDROGEN, UNLESS OTHERWISE NOTED.

C. EXECUTION

1. FABRICATION
- a. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS, AISC CODE AND THE CALIFORNIA BUILDING CODE.
- b. DRILL (DO NOT PUNCH) HOLES CENTERED 6" OR LESS FROM AN EDGE TO BE COMPLETE PENETRATION WELDED.
- c. ALL WELDS SHALL BE IN ACCORDANCE WITH AISC SPECIFICATION USING MANUAL SHIELDED METAL ARC WELDING METHOD (SMAW) OR FLUX CORED ARC WELDING (FCAW) METHOD IN ACCORDANCE WITH AWS D1.1, WELD IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) PREPARED BY FABRICATOR.
- d. IN ADDITION TO SPECIAL CARE USED TO HANDLE AND FABRICATE AESS, COMPLY WITH THE FOLLOWING:
1. FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE, AND FREE OF SURFACE BLEMISHES.
2. GRIND SHEARED, PUNCHED, AND FLAME-CUT EDGES SMOOTH.
3. FABRICATE WITH EXPOSED SURFACES FREE OF MILL MARKS.
4. FABRICATE WITH EXPOSED SURFACES FREE OF SEAMS TO MAXIMUM EXTENT POSSIBLE.
5. REMOVE BLEMISHES BY FILING OR GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING, TREATING, AND SHOP PRIMING.
6. FABRICATE WITH PIECE MARKS FULLY HIDDEN IN THE COMPLETED STRUCTURE OR MADE WITH MEDIA THAT PERMITS FULL REMOVAL AFTER ERECTION.
7. FABRICATE TO THE TOLERANCES SPECIFIED IN AISC 303 FOR STEEL THAT IS AESS.
- e. COPING, BLOCKING, AND JOINT GAPS: MAINTAIN UNIFORM GAPS OF 1/8 INCH (3.2 MM) WITH A TOLERANCE OF 1/32 INCH (0.8 MM).
1. WELD CONNECTIONS: USE WELD SIZES, FABRICATION SEQUENCE, AND EQUIPMENT THAT LIMIT DISTORTIONS TO ALLOWABLE TOLERANCES.
1. PROVIDE CONTINUOUS, SEALED WELDS AT EDGES WHERE PLATES AND/OR MEMBER JOIN AND ARE EXPOSED TO WEATHER.
4. PROVIDE CONTINUOUS WELDS OF UNIFORM SIZE AND PROFILE WHERE AESS IS WELDED.
5. GRIND BUTT AND GROOVE WELDS FLUSH TO ADJACENT SURFACES WITHIN TOLERANCE OF PLUS 1/16 INCH, MINUS 0 INCH (PLUS 1.5 MM, MINUS 0 MM).
6. MAKE BUTT AND GROOVE WELDS FLUSH TO ADJACENT SURFACES WITHIN TOLERANCE OF PLUS 1/16 INCH, MINUS 0 INCH (PLUS 1.5 MM, MINUS 0 MM), DO NOT GRIND UNLESS REQUIRED FOR CLEARANCES OR FOR FITTING OTHER COMPONENTS, OR UNLESS DIRECTED TO CORRECT UNACCEPTABLE WORK.
7. REMOVE BACKING BARS OR RUNOFF TABS, BACK-GOUGE AND GRIND STEEL SMOOTH.
8. AT LOCATIONS WHERE WELDING ON THE FAR SIDE OF AN EXPOSED CONNECTION OF AESS OCCURS, GRIND DISTORTIONS AND MARKING OF THE STEEL TO A SMOOTH PROFILE ALIGNED WITH ADJACENT MATERIAL.
9. MAKE FILLET WELDS OVERSIZE AND GRIND TO UNIFORM PROFILE WITH SMOOTH FACE AND TRANSITION.
10. MAKE FILLET WELDS OF UNIFORM SIZE AND PROFILE WITH EXPOSED FACE SMOOTH AND SLIGHTLY CONCAVE. DO NOT GRIND UNLESS DIRECTED TO CORRECT UNACCEPTABLE WORK.
- g. SHOP PRIME STEEL SURFACES EXCEPT THE FOLLOWING:
1. SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXCLUDE PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES (50 MM).
2. SURFACES TO BE FIELD WELDED.
3. SURFACES TO BE HIGH-STRENGTH BOLTED WITH SLIP-CRITICAL CONNECTIONS.
4. SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.
- h. PRIMING: IMMEDIATELY AFTER SURFACE PREPARATION, APPLY PRIMER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND AS RECOMMENDED BY SSPC TO PROVIDE A MINIMUM 90% COVERAGE. THICKNESS OF 1.5 MILS (0.038 MM). USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES.

D. QUALITY ASSURANCE

1. FABRICATOR SHALL PREPARE WELDING PROCEDURE SPECIFICATIONS (WPS).
2. QUALIFY WELDING PROCEDURES AND WELDING OPERATORS IN ACCORDANCE WITH AWS D1.1 "QUALIFICATION" REQUIREMENTS.
3. WORK-UPS: BUILD MOCK-UP OF EACH CONDITION OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL TO SET QUALITY STANDARD FOR FABRICATION AND INSTALLATION.
4. TESTING LABORATORY WILL:
- a. REVIEW MANUFACTURER'S TEST REPORTS FOR COMPLIANCE WITH SPECIFIED REQUIREMENTS
- b. VERIFY MATERIAL IDENTIFICATION.
- c. INSPECT WELDING AS REQUIRED BY CBC SECTION 1705.2 IN ACCORDANCE WITH AWS D1.1
5. ARCHITECT WILL: OBSERVE AESS IN PLACE TO DETERMINE ACCEPTABILITY.

LIGHT GAUGE STEEL SPECIFICATIONS

- A. COLD FORM STEEL USED FOR STUDS, TRACK, BLOCKING, GUSSETS, BRACE STRAPS, ETC. SHALL MEET THE REQUIREMENTS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) ES EVALUATION REPORT NO. 3064P DATED FEBRUARY 2014 SEE DETAIL SHEETS FOR SIZES AND THICKNESS REQUIREMENTS.
- B. COLD FORM STEEL STUD FRAMING SHALL CONFORM TO THE FOLLOWING:
- 54 MIL AND HEAVIER-ASTM A653 SS (50 KS) MINIMUM YIELD)
- 43 MIL AND LIGHTER-ASTM A653 SS (33 KS) MINIMUM YIELD)
- EXTERIOR MEMBERS : GALVANIZED 60 MIN.
- C. ALL STEEL STUDS, JOIST & TRACK SHALL HAVE A LEGIBLE LABEL, STAMP OR EMBOSSEMENT, AT A MAXIMUM OF 48 " O.C., INDICATING THE MANUFACTURER'S NAME, LOGO OR INITIALS, EVALUATION SERVICE REPORT NUMBER, THE MATERIAL BASE METAL THICKNESS (UNCOATED) IN .001 IN. AND THE YIELD STRENGTH IF DIFFERENT THAN 33 KSI.
- D. MILL CERTIFICATES FROM THE COIL PRODUCER SHALL BE MADE AVAILABLE IF REQUESTED. MILL CERTIFICATE TO INCLUDE AS A MINIMUM THE CHEMICAL COMPOSITION, YIELD STRENGTH, TENSILE STRENGTH, ELONGATION, AND COATING THICKNESS.
- E. ALL SECTIONS TO REMAIN UNPUNCHED EXCEPT WALL STUDS MAY BE PUNCHED IN ACCORDANCE WITH ICC HOLE SIZE AND SPACING LIMITATIONS.
- F. LATERAL BRIDGING OF COLD FORM STEEL STUDS IS REQUIRED WHEN SHEATHING, INSTALLED DOES NOT CONTINUE FULL HEIGHT ON BOTH SIDES. FOR BRIDGING INSTALLATION SEE TYPICAL DETAIL SHEET.
- G. COLD FORM STEEL STUDS SHALL HAVE FULL BEARING AGAINST INSIDE TRACK WEB PRIOR TO STUD AND TRACK ATTACHMENT. STUDS AND TRACKS SHALL BE ATTACHED BY WELDING OR 2-#8 SELF DRILLING SCREWS (ONE EA. FLANGE).

- H. PRE-MANUFACTURED HANGERS, CLIPS, ETC. SHALL MEET THE REQUIREMENTS OF "SIMPSON" OR EQUIVALENT.
- I. VERTICLIP SL/SLD BY THE STEEL NETWORK ICC ESR-1903.
- J. SELF-DRILLING FASTENERS HAVE BEEN DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS". FASTENERS SHALL BE #8 SMS U.O.N. ALL SCREWS TO BE GALVANIZED OR CORROSION RESISTANT. SCREWS SHALL CONFORM TO AISI J78.
- K. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN A FABRICATION SHOP. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST AWS D1.3 CODE.
1. 43 MIL AND LIGHTER SHEET TO SHEET – E60XX
2. 54 MIL AND HEAVIER SHEET TO SHEET – E70XX
- L. BUTT WELDS ON SPLICES SHALL BE USED AT ALL JOINTS IN TRACK. SPLICES IN STUDS OR BRACES SHALL NOT BE PERMITTED. WHERE STUDS ARE BURNED THROUGH BY WELDING PROVIDE SUITABLE STITCH PLATE OF SAME THICKNESS.
- M. SEE ADDITIONAL NOTES ON DET. 1/35.41.

VII. EPOXY ADHESIVE SPECIFICATION

1. CONCRETE
- a. EPOXY SHALL BE SIMPSON SET-XP TYPE EPOXY (ICC-ES ESR-2508) INSTALLED IN CONFORMANCE WITH THE MANUFACTURERS SPECIFICATION AND ICC-ES ESR-2508 OR APPROVED EQUAL.

VIII. NON-SHRINK GROUT SPECIFICATION

1. NON-SHRINK GROUT SHALL BE FLOWABLE, WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT (3) DAYS.
- a. NON-SHRINK GROUT SHALL BE MASTERFLOW 100 AS MANUFACTURED BY BASF MASTER BUILDERS OR APPROVED EQUAL.
2. PLACEMENT
- a. PLACE GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- b. GROUT SHALL NOT BE PLACED IN LIFTS GREATER THAN 6 INCHES
3. CURING
- a. CURE GROUT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- b. CURE EXPOSED GROUT SHOULDERS BY WET CURING FOR 24 HOURS
- c. APPLY MEMBRANE CURING COMPOUND APPROVED BY GROUT MANUFACTURER AND COMPLIANT WITH ASTM C309

SPECIAL INSPECTIONS SPECIFICATIONS

SPECIAL INSPECTIONS AND TESTING WILL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, THE ATTACHED "STATEMENT OF SPECIAL INSPECTION" AND CBC SECTIONS 1704, 1705.

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A SEISMIC RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF THE WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

STATEMENT OF SPECIAL INSPECTIONS**A. GENERAL**

- THESE PROVISIONS SHALL GOVERN THE QUALITY, WORKMANSHIP, AND REQUIREMENTS FOR WORK COVERED. MATERIALS OF CONSTRUCTION AND TESTS SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED.

B. DEFINITIONS

- a. CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
- b. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
- C. REFERENCE STANDARDS (EDITIONS ADOPTED BY CURRENT GOVERNING CALIFORNIA BUILDING CODE)
- a. CBC – CALIFORNIA BUILDING CODE
- b. AISC 341 – SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS; AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- c. AISC 360 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS; AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- d. ACI 318 – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY; AMERICAN CONCRETE INSTITUTE
- e. RCSC – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS; RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS
1. AF & PA NDS – NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
- D. THIS STATEMENT OF SPECIAL INSPECTION IS SUBMITTED IN FULFILLMENT OF THE REQUIREMENTS OF CBC SECTIONS 1704.3, THE FOLLOWING ATTACHMENTS SUMMARIZE THE SPECIAL INSPECTIONS AND STRUCTURAL TESTS REQUIRED FOR THIS PROJECT.
- E. THESE REQUIREMENTS HAVE ALSO BEEN MADE PART OF THE APPROVED PLANS.
- F. THE OWNER RECOGNIZES HIS OR HER OBLIGATION TO ENSURE THAT THE CONSTRUCTION COMPLIES WITH THE APPROVED PERMIT DOCUMENTS AND TO IMPLEMENT THIS PROGRAM OF SPECIAL INSPECTIONS. IN PARTIAL FULFILLMENT OF THESE OBLIGATIONS, THE OWNER WILL RETAIN AND DIRECTLY PAY FOR THE SPECIAL INSPECTIONS AS REQUIRED IN CBC SECTION 1704.2
- G. SPECIAL INSPECTORS WILL REFER TO THE APPROVED PLANS AND SPECIFICATIONS, THE ABOVE REFERENCED SCHEDULES, AND THE RELEVANT CBC SECTIONS FOR DETAILED SPECIAL INSPECTION REQUIREMENTS. ANY ADDITIONAL TESTS AND INSPECTIONS REQUIRED BY THE APPROVED PLANS AND SPECIFICATIONS WILL ALSO BE PERFORMED.

- H. INTERIM INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND TO DAEDALUS STRUCTURAL ENGINEERING, INC. IN ACCORDANCE WITH CBC SECTION 1704.2.4. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DEFICIENCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

- I. THIS PLAN HAS BEEN DEVELOPED WITH THE UNDERSTANDING THAT THE BUILDING OFFICIAL WILL:
- a. REVIEW AND APPROVE THE QUALIFICATIONS OF THE SPECIAL INSPECTORS PERFORMING THE INSPECTIONS
- b. MONITOR SPECIAL INSPECTION ACTIVITIES TO ASSURE COMPLIANCE WITH PROJECT REQUIREMENTS
- c. REVIEW SUBMITTED INSPECTION REPORTS
- d. PERFORM INSPECTION

- J. WIND + SEISMIC REQUIREMENTS (CBC SECTION 1705.10, 1705.11 AND 1705.12)

- K. DESCRIPTION OF THE SEISMIC OR WIND LOAD RESISTING SYSTEM (SRS) AND DESIGNATED LATERAL SYSTEMS SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CBC SECTION 1705.3, 1704.3.2 & 1704.3.3

- L. THE EXTENT OF THE SEISMIC LOAD RESISTING SYSTEM IS DEFINED IN MORE DETAIL IN THE CONSTRUCTION DOCUMENTS.

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD
CONCRETE CONSTRUCTION- SEE TABLE 1705.3			
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3 CBC 1908.4
2. REINFORCING BAR WELDING:	-	X	-
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	AWS D14 ACI 318: 26.6.4
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 3/8"; AND;	-	X	-
C. INSPECT ALL OTHER WELDS.	X	-	-
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	-	X	-
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLUDED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a	-	X	ACI 318: 17.8.2
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4 CBC 1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	-	X	ASTM C172, ASTM C31 ACI 318: 26.5, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5 CBC 1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5 CBC 1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:	X	-	-
A. APPLICATION OF PRESTRESSING FORCES; AND	X	-	-
B. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH. 26.8
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO THE REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.2(b)

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0013

Sheet Title

LEVEL 1 AND 2 FRAMING PLANS

Sheet Number

S2.11

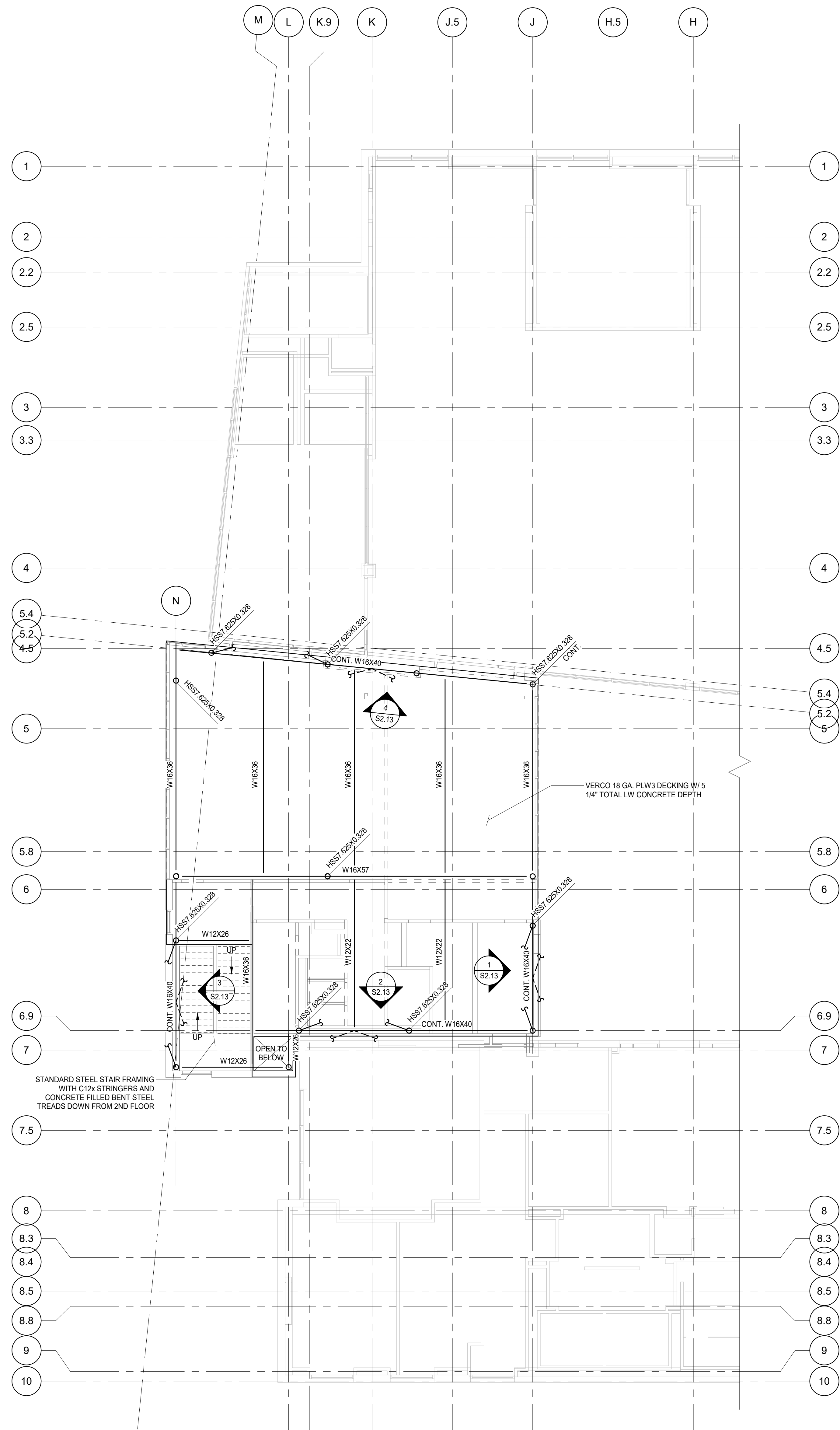
DALUS #20015

FRAMING PLAN NOTES:

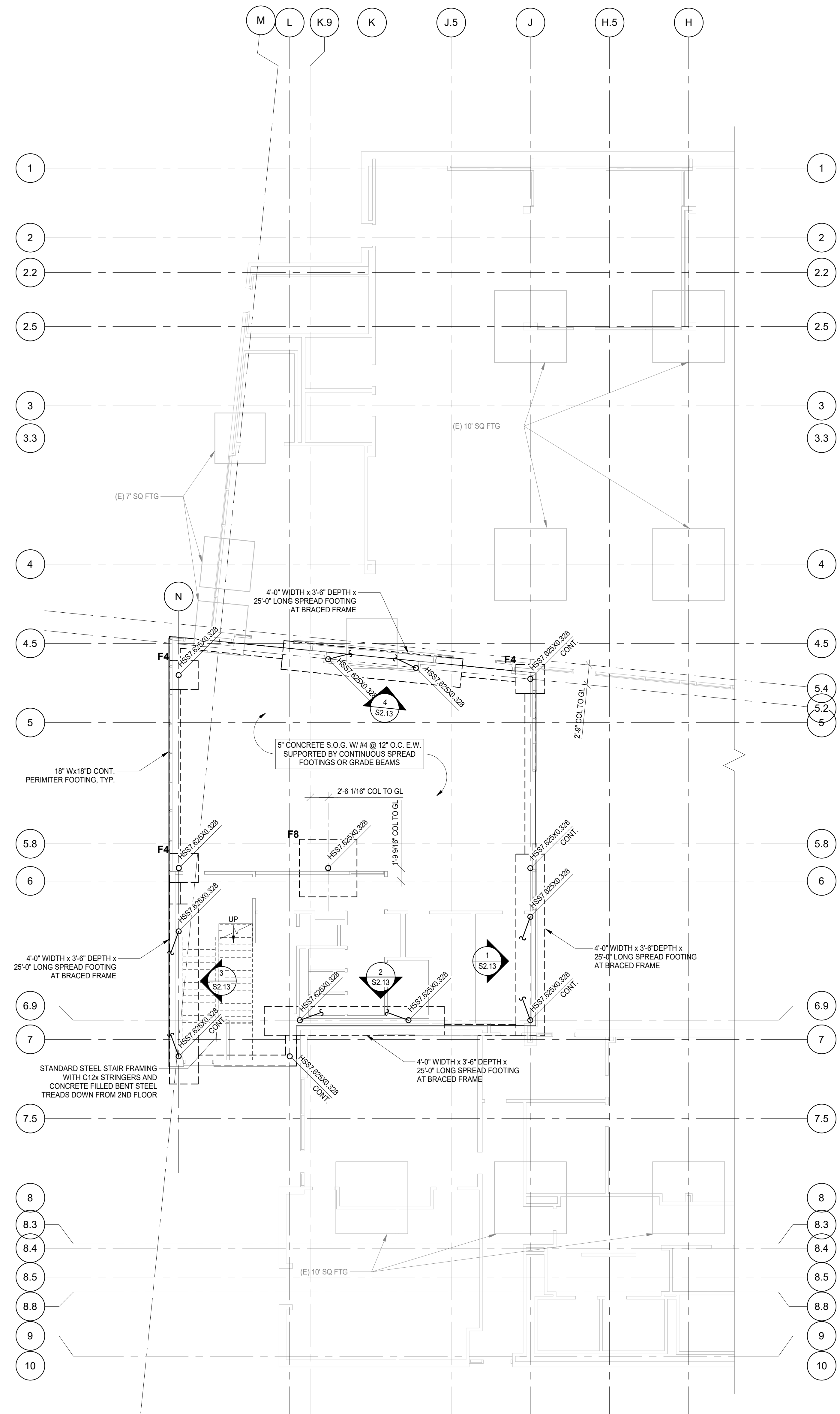
1. SEE SHEET S2.12 FOR FRAMING PLAN NOTES

FOUNDATION PLAN NOTES:

1. SEE SHEET S1.12 FOR FOUNDATION PLAN NOTES

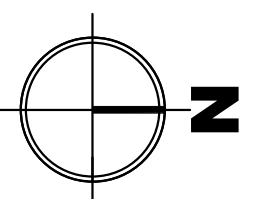


2 LEVEL 2 FRAMING PLAN

$$1/8'' = 1'-0''$$


1 LEVEL 1 FRAMING PLAN

1/8" = 1'-0"




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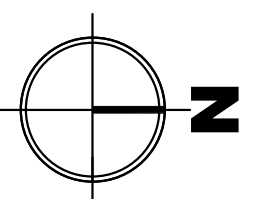
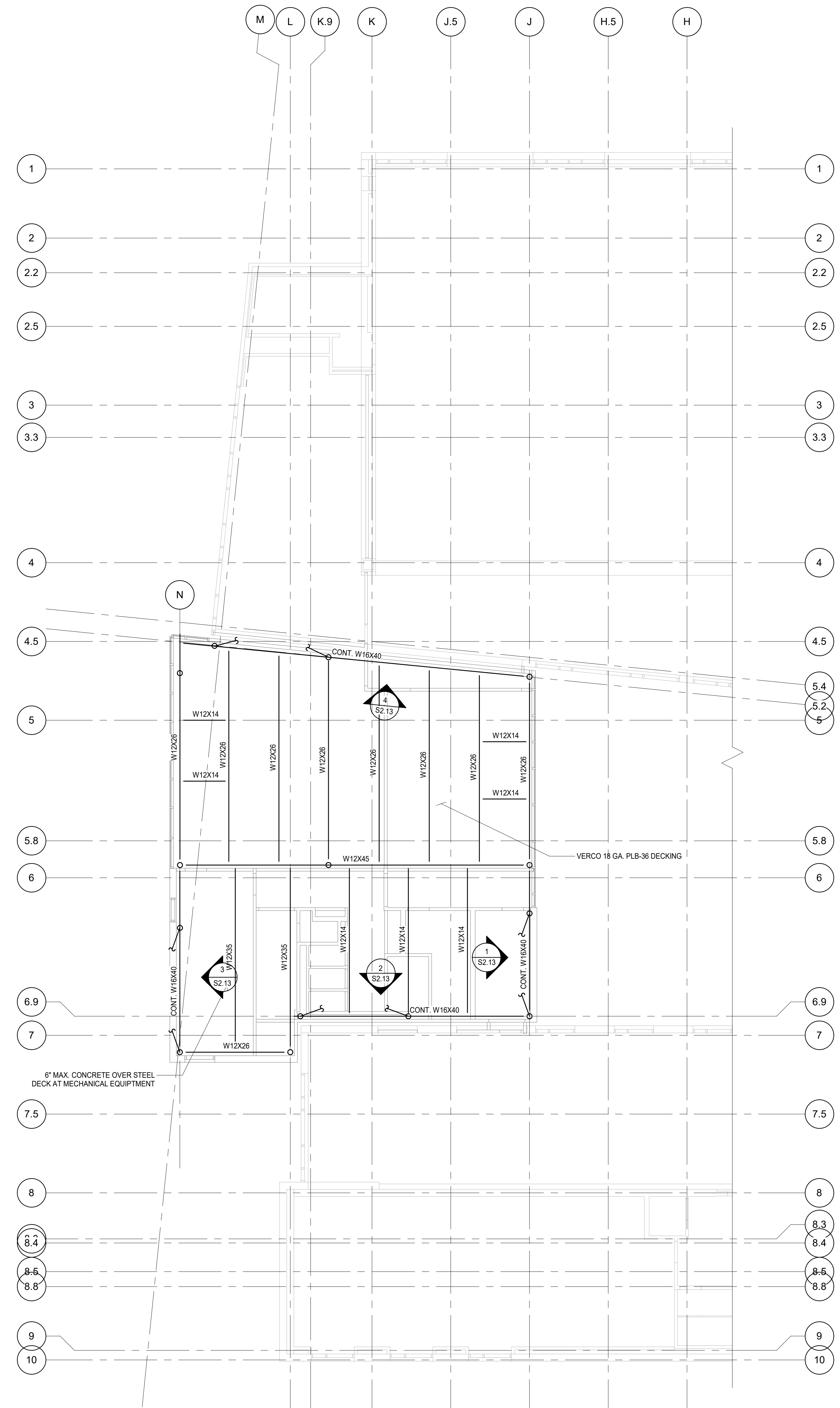
Sheet Title

ROOF FRAMING PLAN

Sheet Number

S2.12

DALLAS #20015



ROOF FRAMING PLAN

$1/8'' = 1'-0''$

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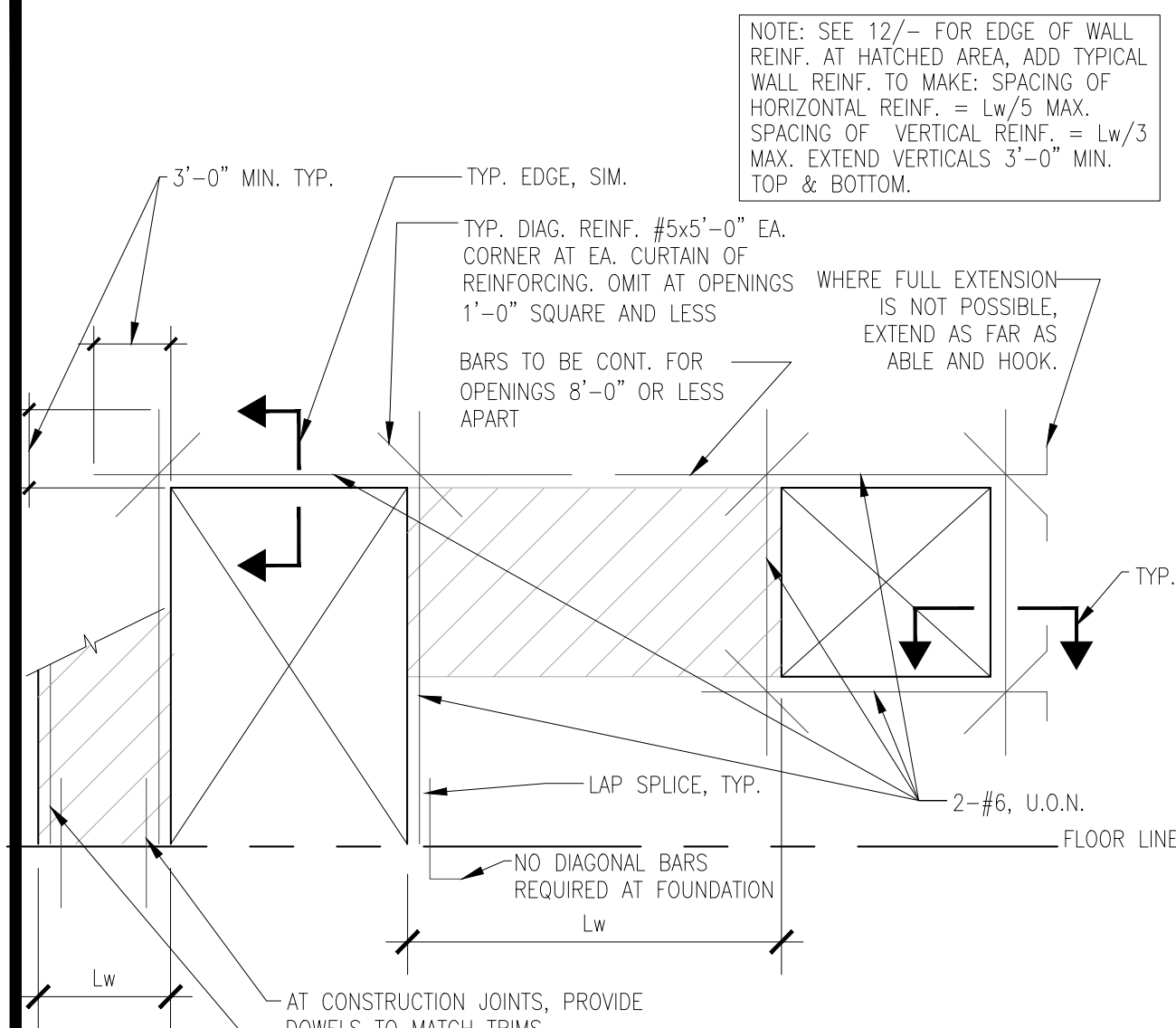
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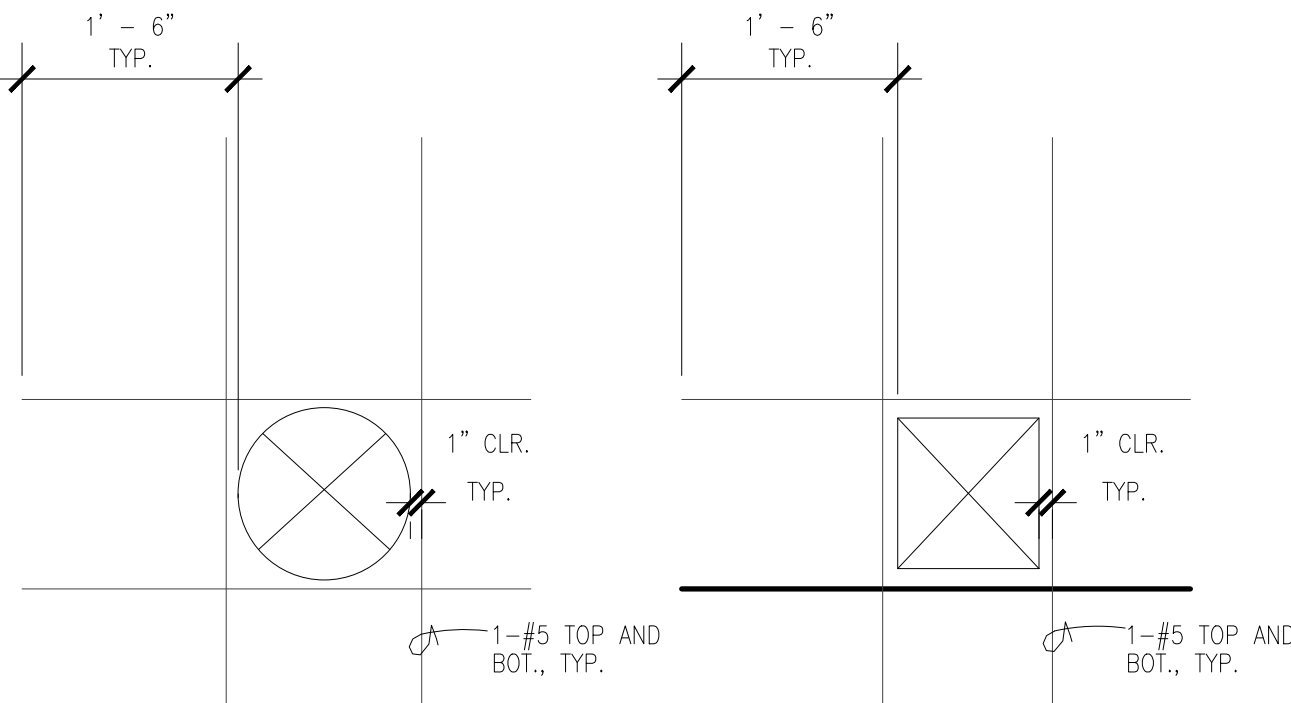
S2.21



**TRIM REINFORCING AT OP'GS IN WALLS OR SLAB GREATER THAN 24"**

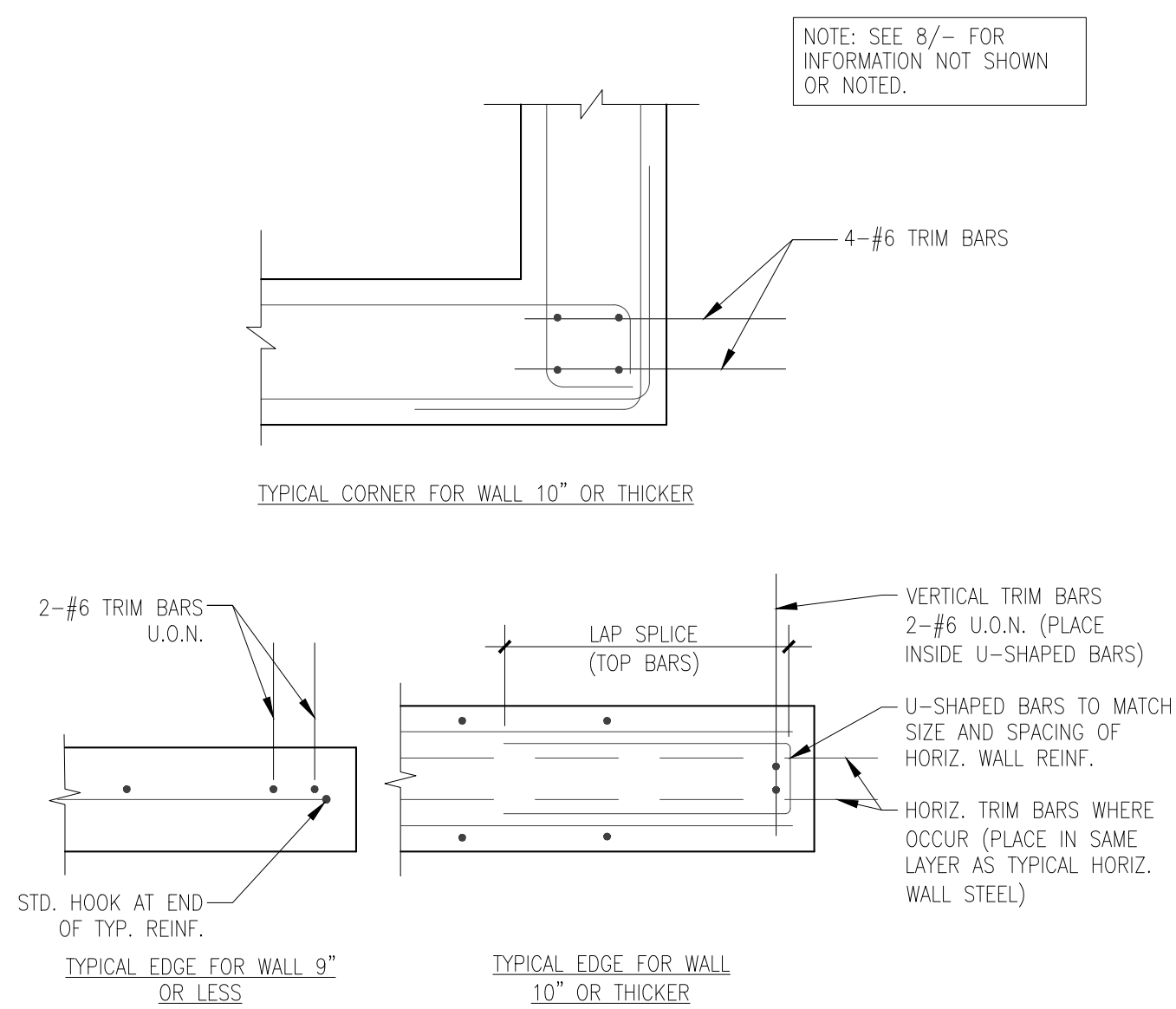
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20

**TRIM REINFORCING AT OPENINGS IN WALLS OR SLAB FROM 12"-24"**

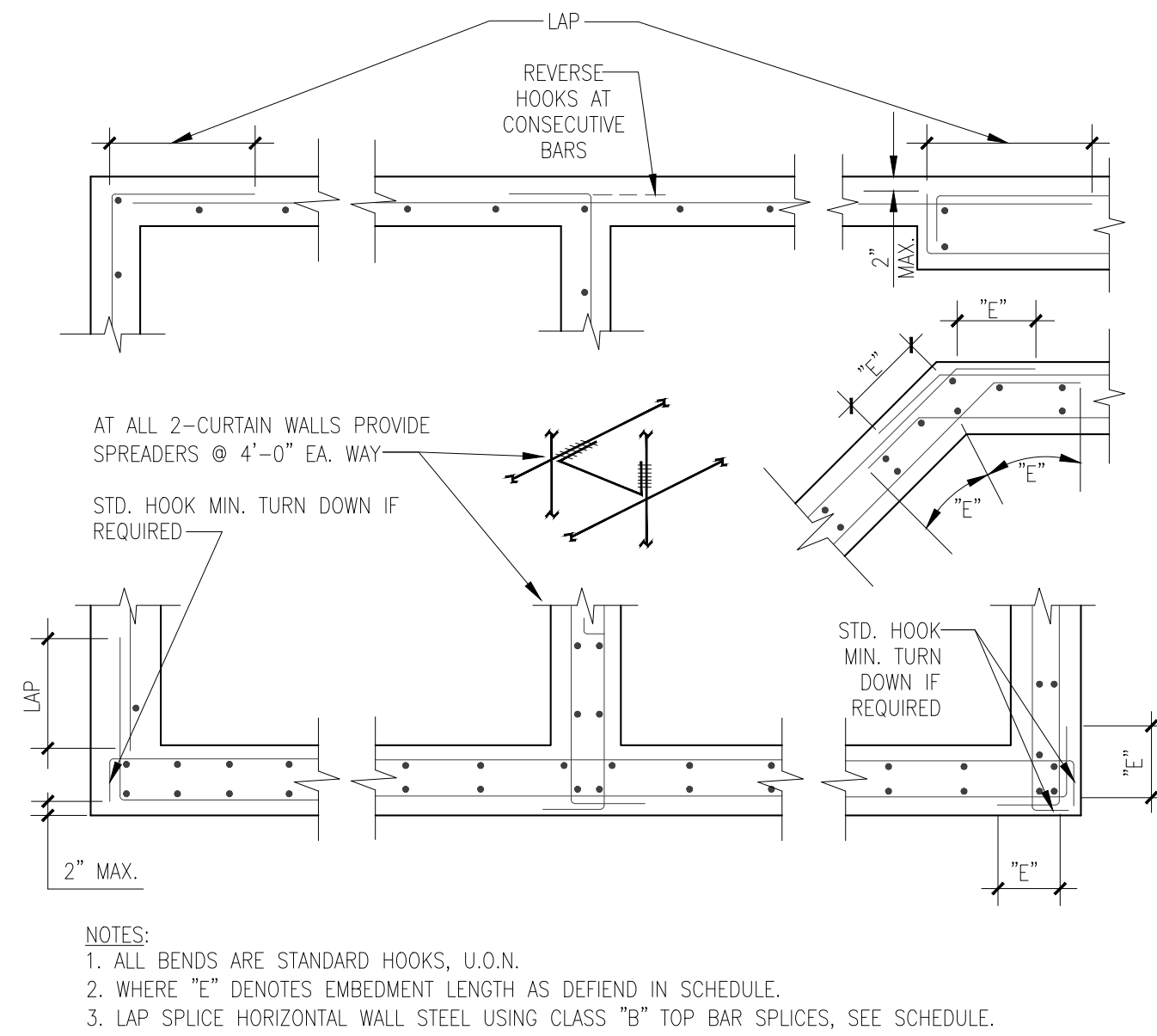
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**TYPICAL REINFORCING AT JAMB EDGES OF CONCRETE WALLS**

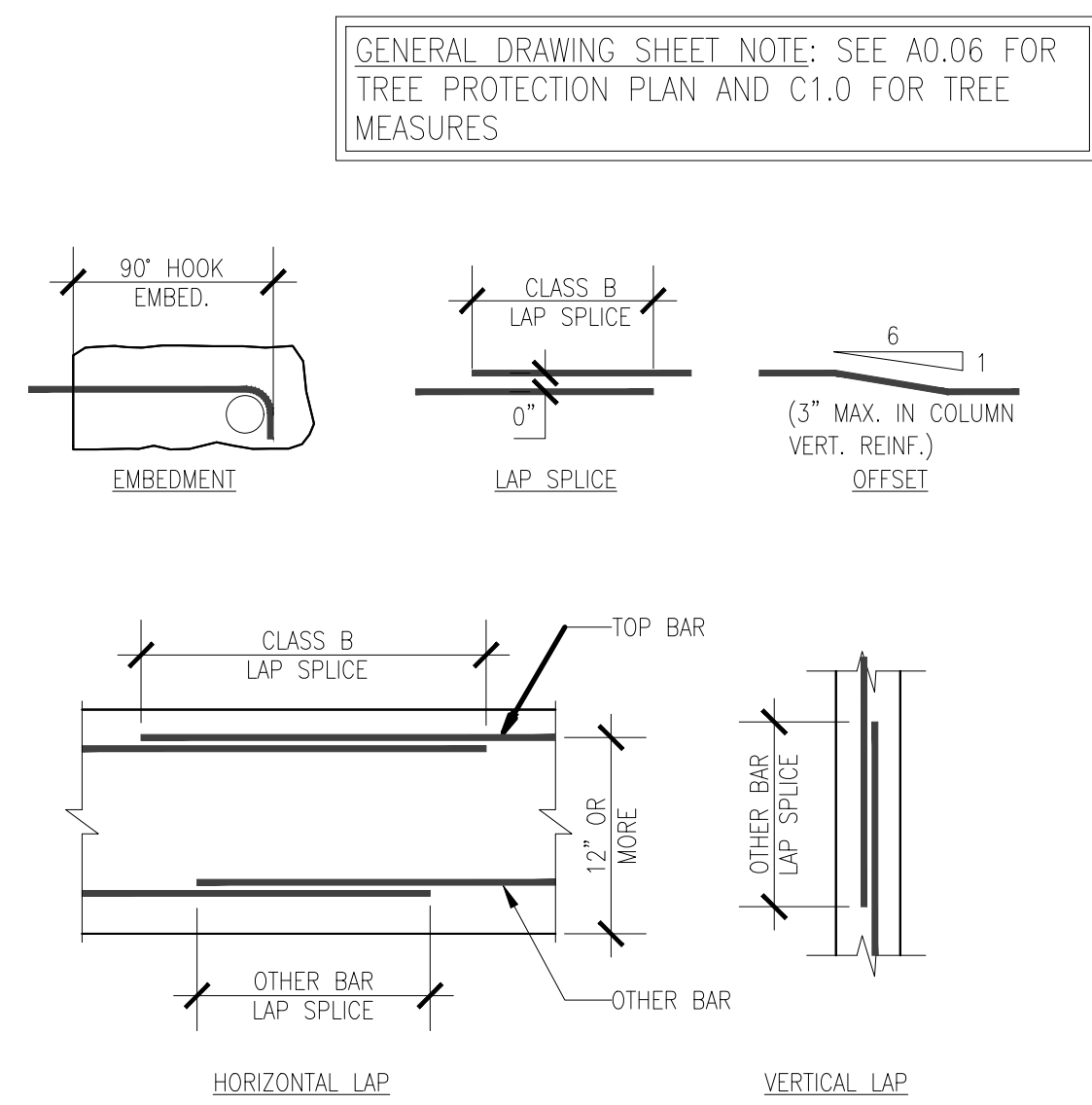
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**TYPICAL HORIZ. WALL REINF. AT CORNERS AND INTERSECTIONS**

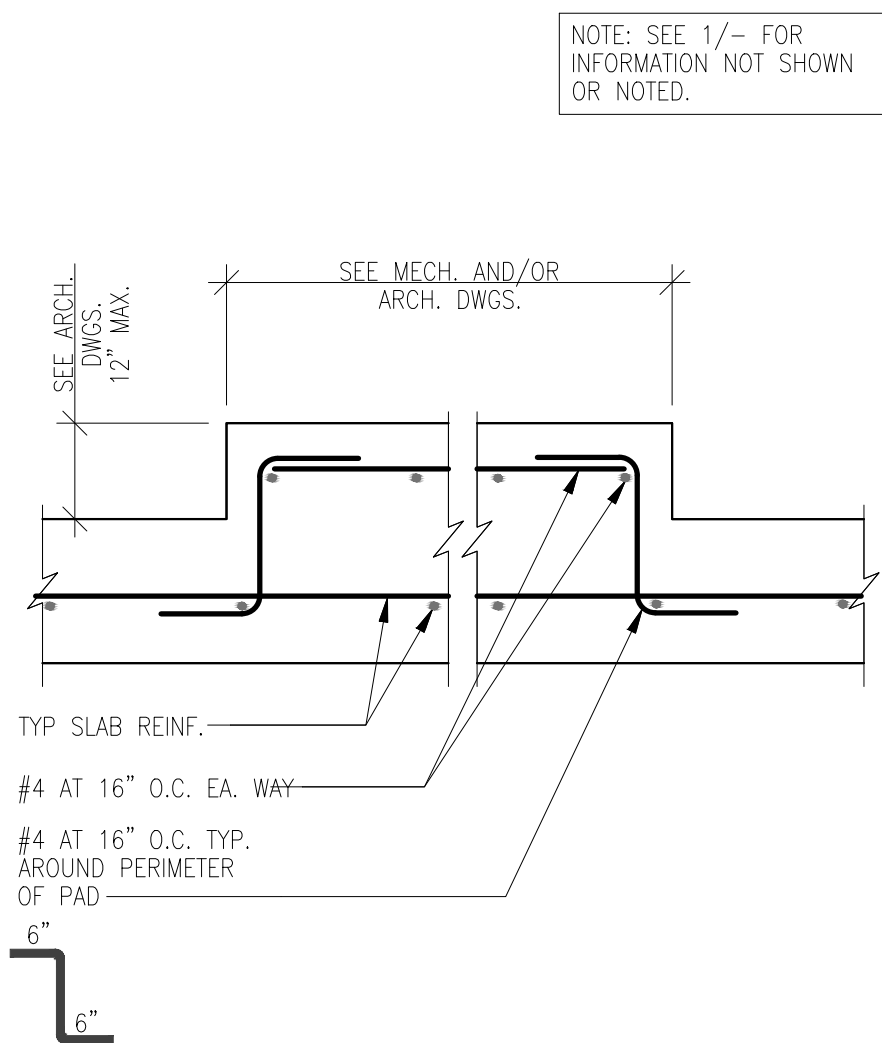
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**TYPICAL REINFORCEMENT EMBED LAP SPICE AND OFFSET**

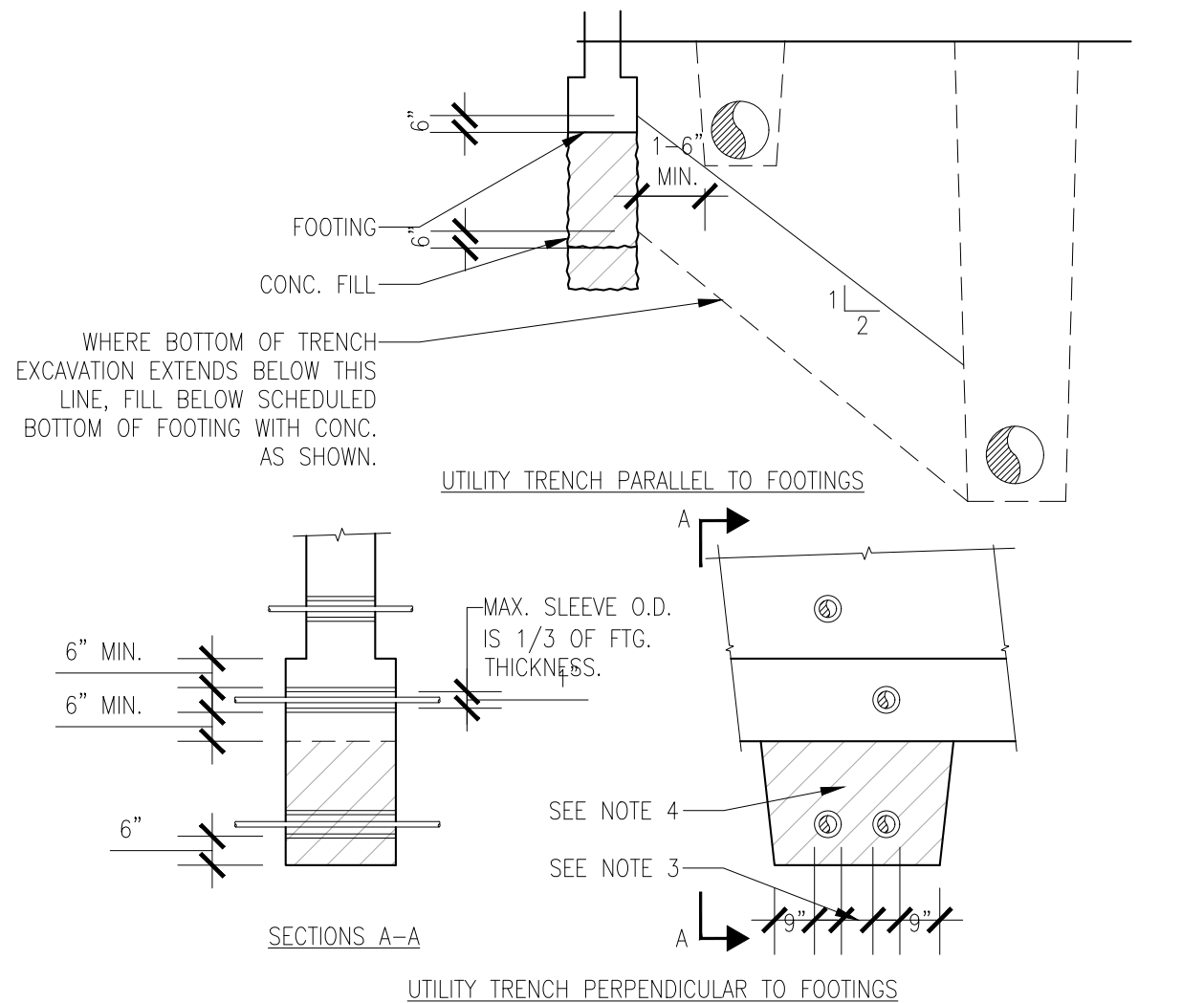
1" = 1'-0"

4

**TYPICAL SLAB RAISED PAD**

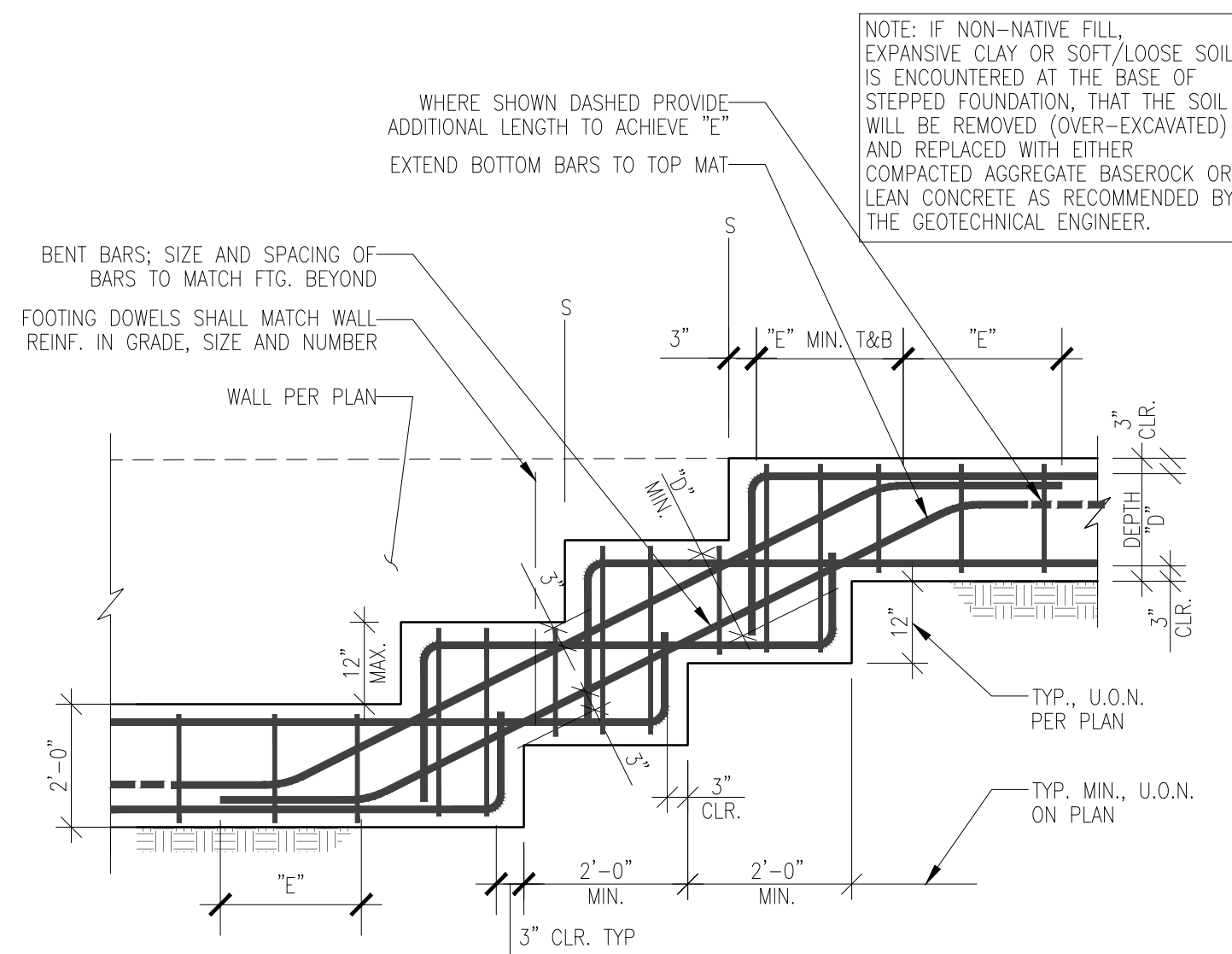
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19

**TYPICAL PIPE TRENCH AND PENETRATIONS AT FOUNDATIONS**

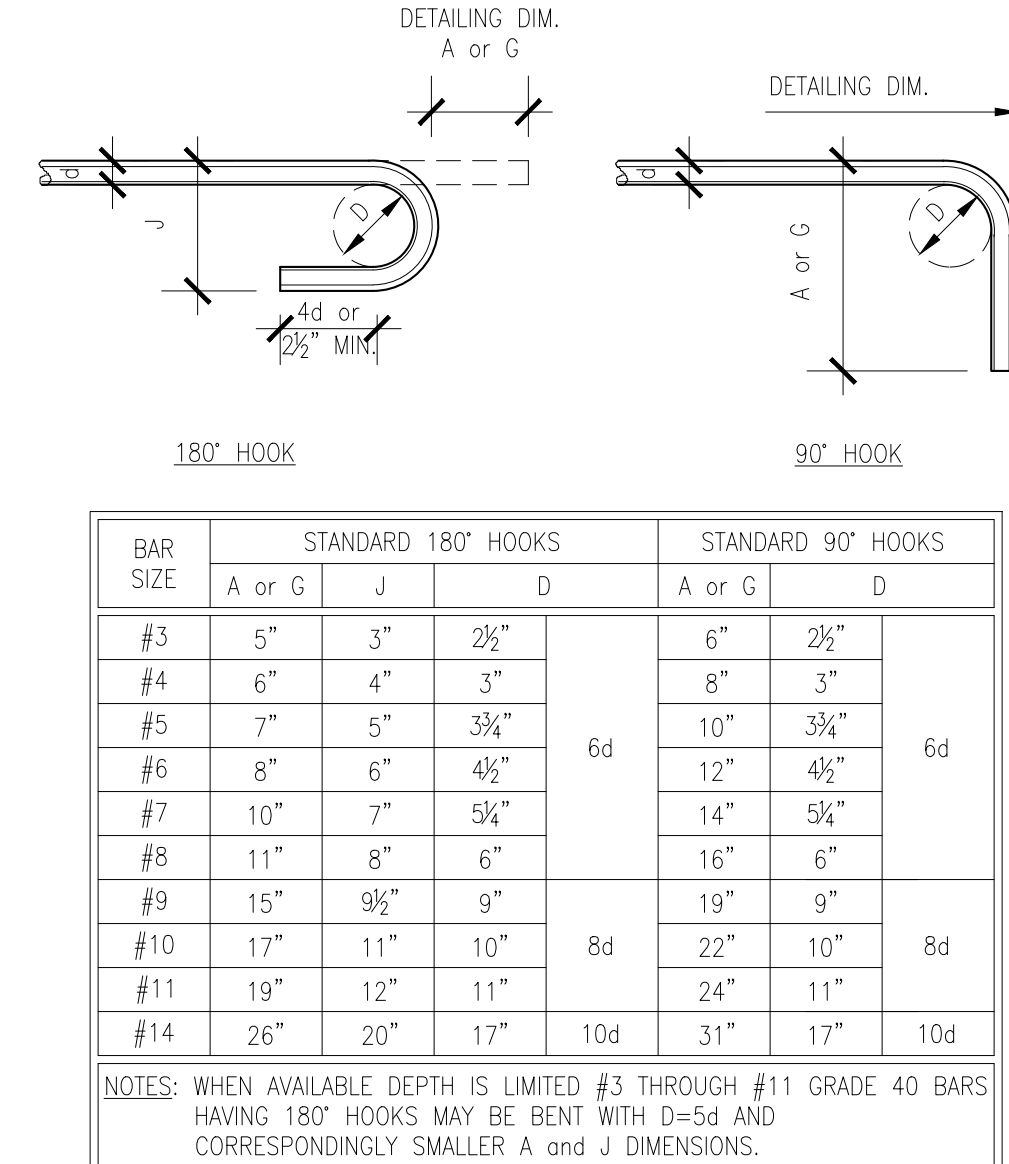
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15

**TYPICAL STEPPED FOOTING OR GRADE BEAM**

NO SCALE

11

**TYPICAL STANDARD HOOK DIMENSIONS**

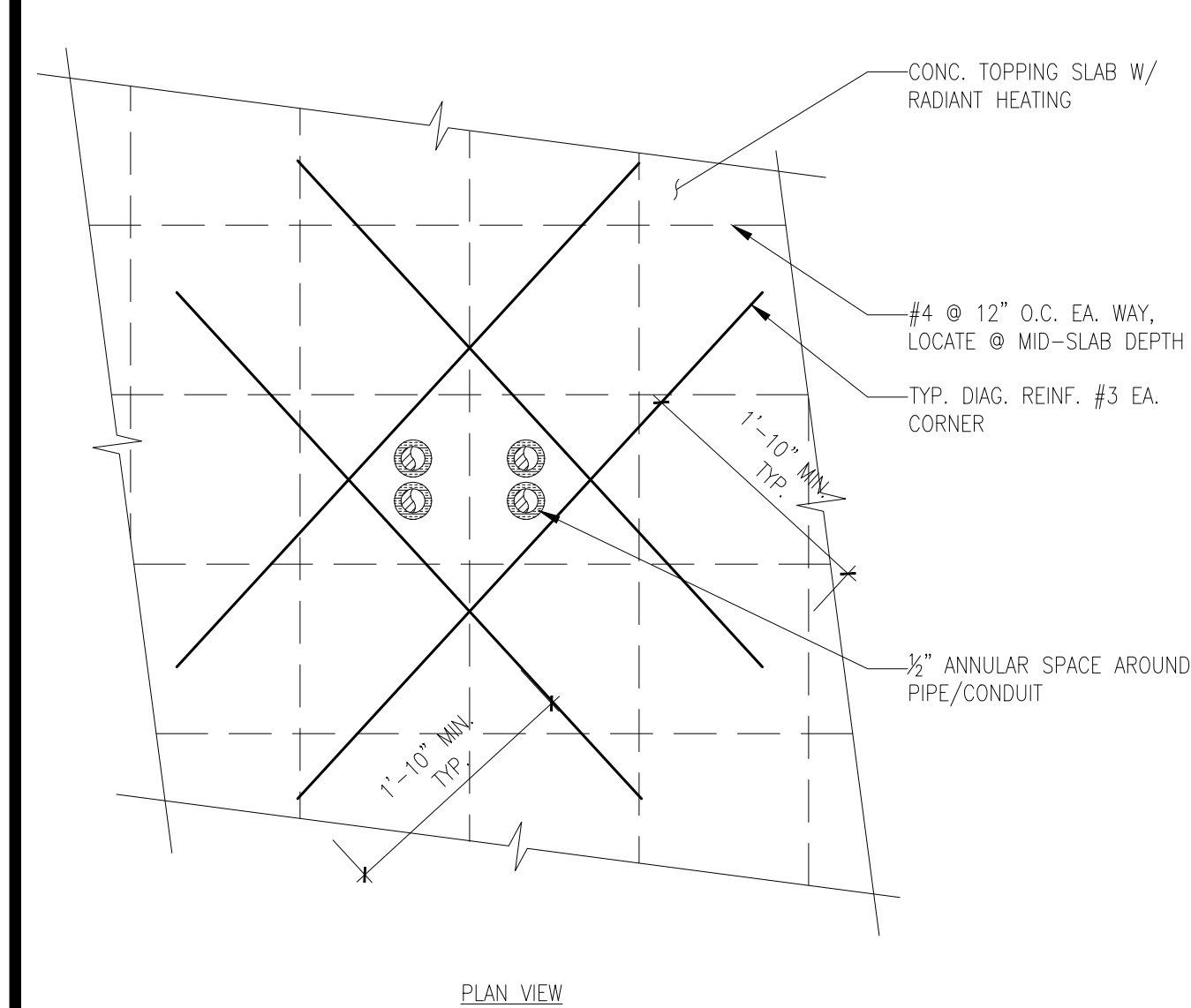
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7

TYPICAL LAP SPICE SCHEDULE

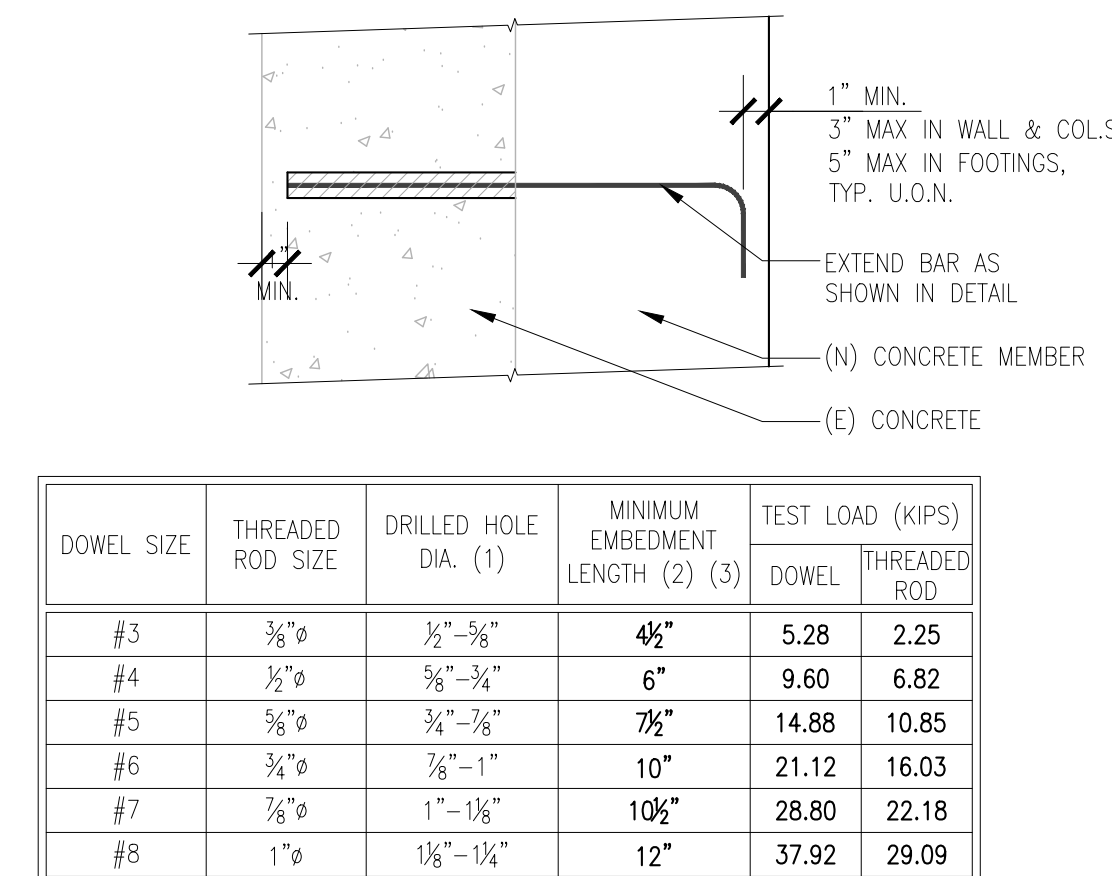
N.T.S.

3

**TYP. PLUMING/CONDUIT PENETRATION INTO CONC. TOPPING SLAB**

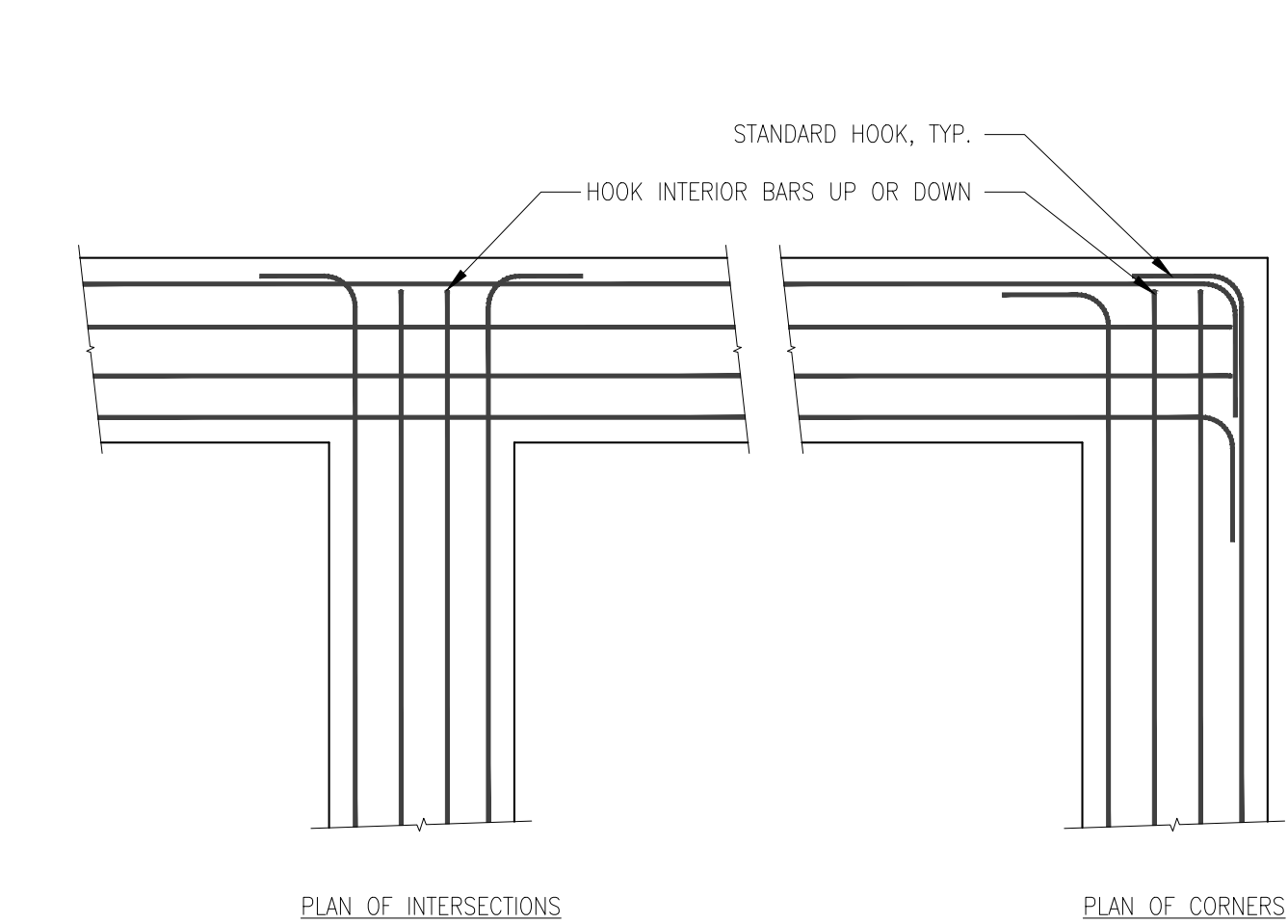
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18

**TYPICAL EPOXIED DOWEL ANCHORAGE IN CONCRETE**

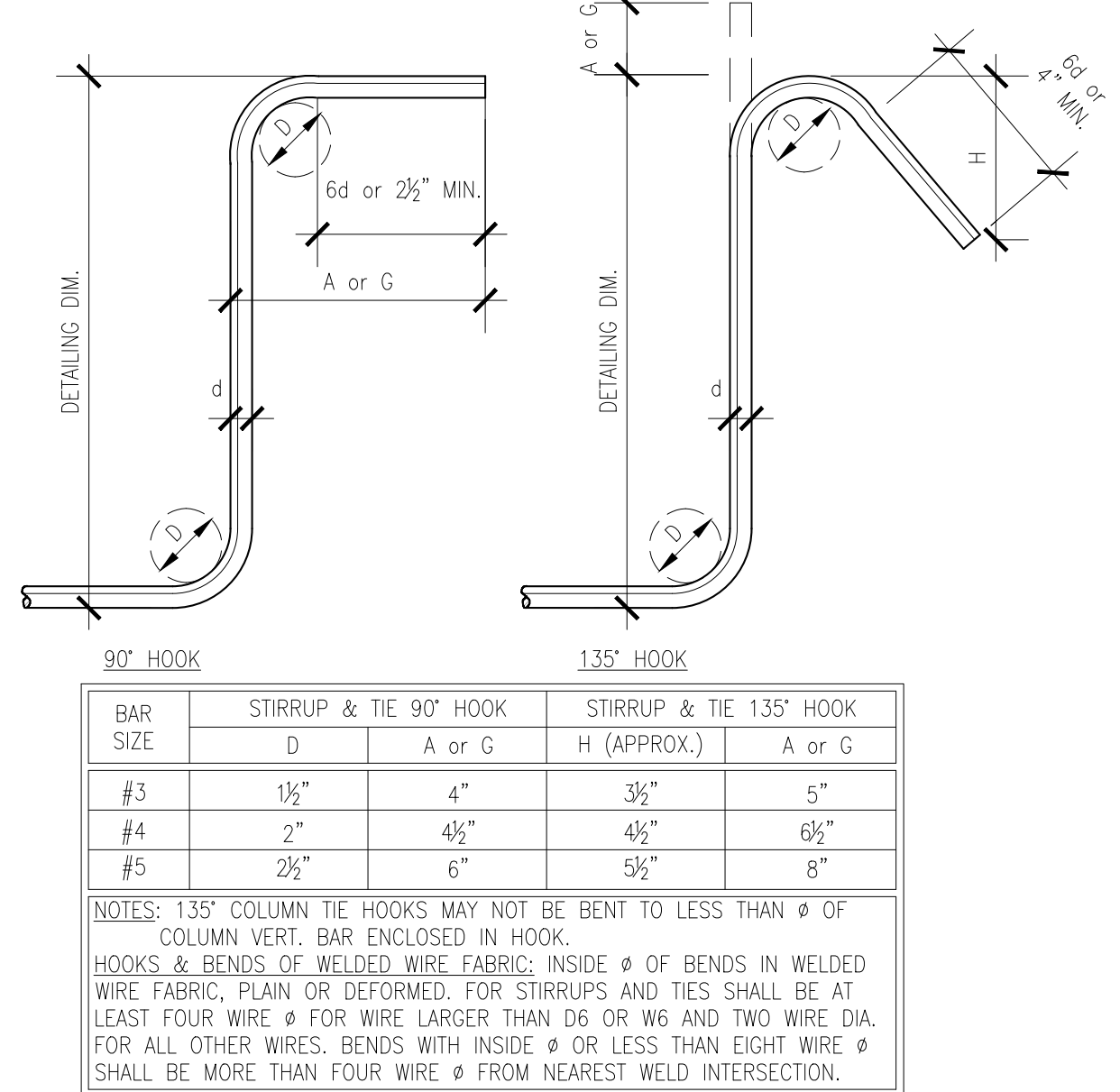
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14

**TYPICAL REINFORCING AT FOOTING/GRADE BM CORNERS AND INTERSECTIONS**

NO SCALE

10

**TYPICAL STIRRUP BEND AND HOOKS**

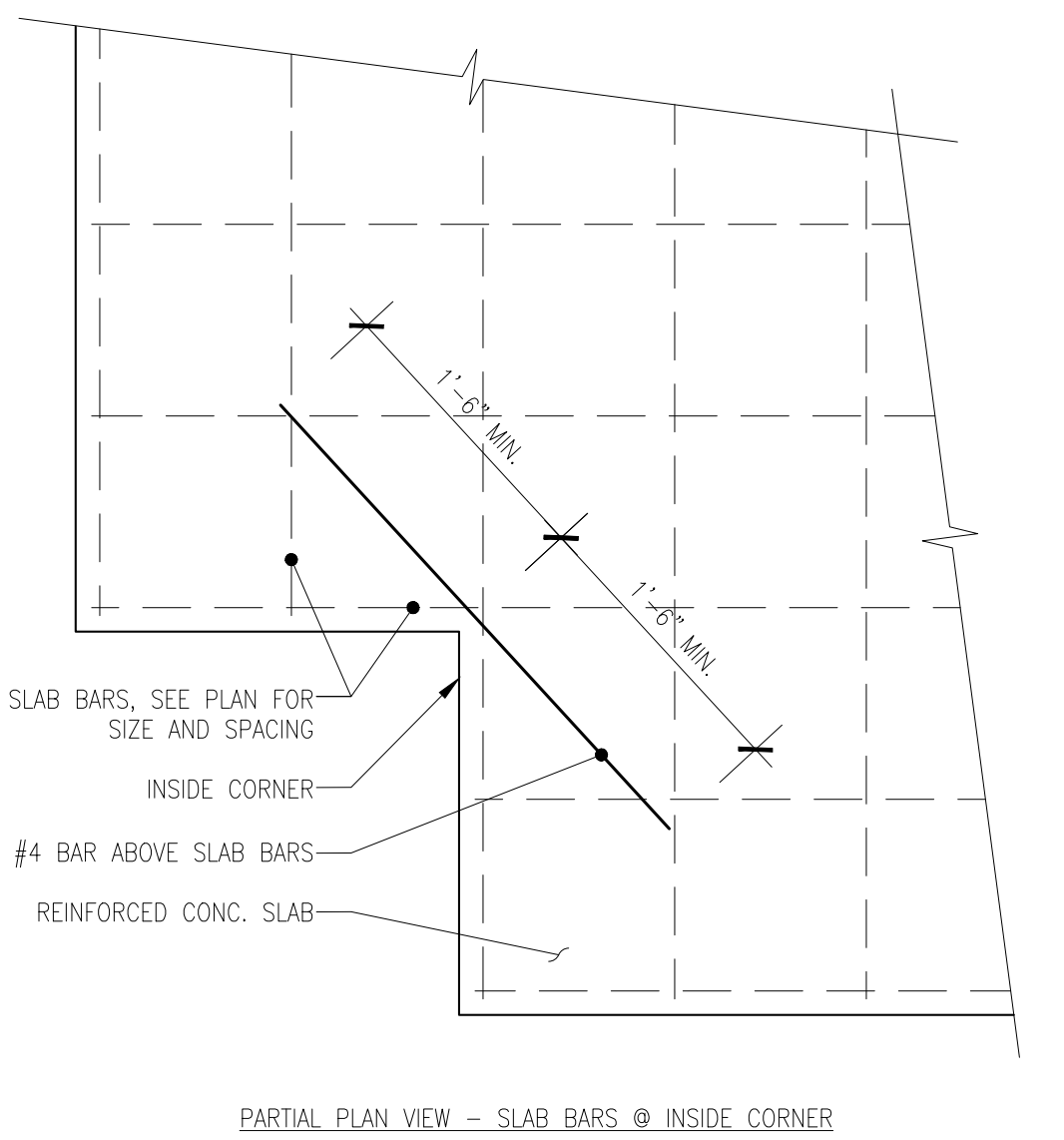
NO SCALE

6

TYPICAL CONCRETE COVER OVER REINFORCING STEEL

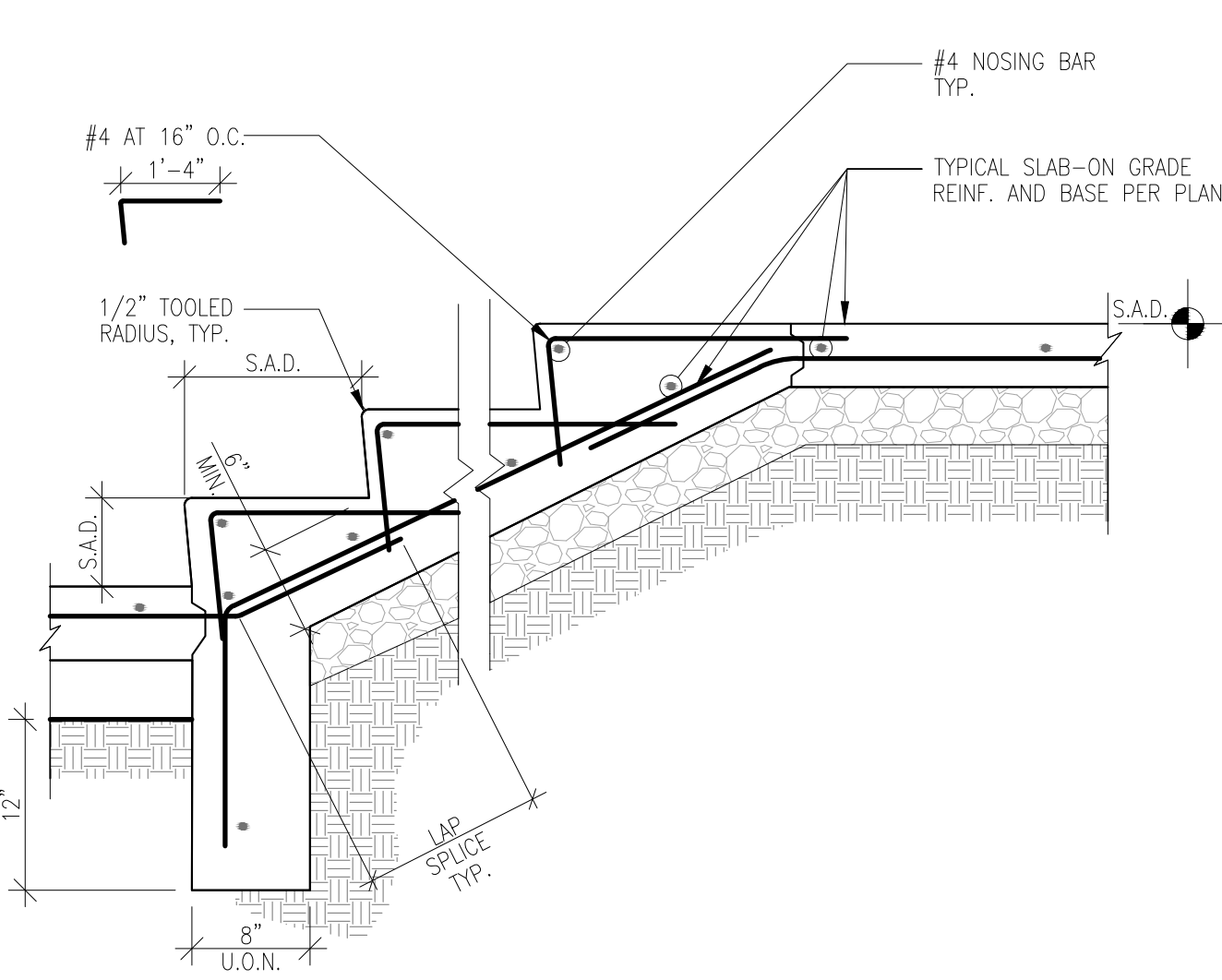
NO SCALE

2

**TYP. SLAB-ON-GRADE BARS AT INSIDE CORNER**

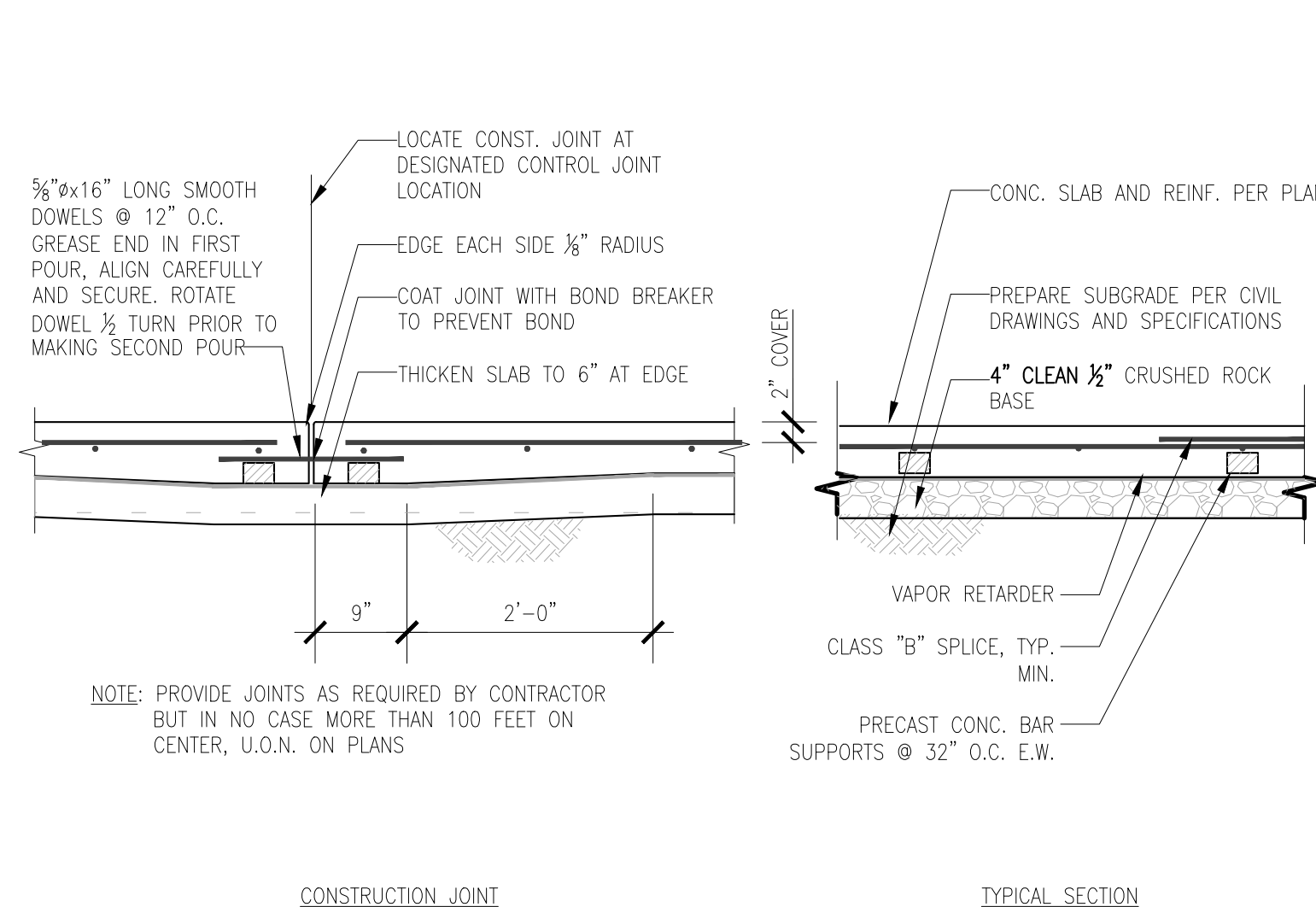
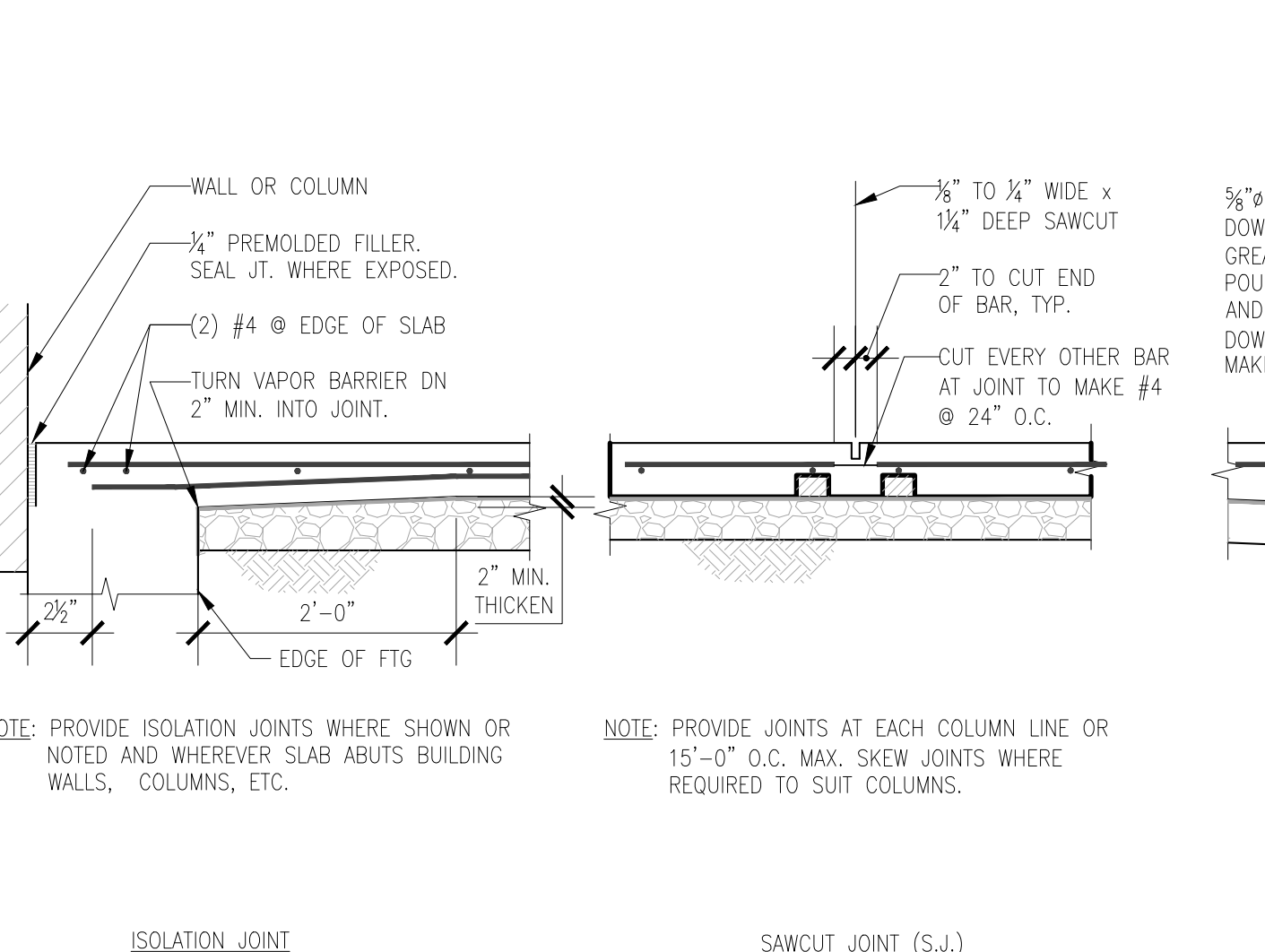
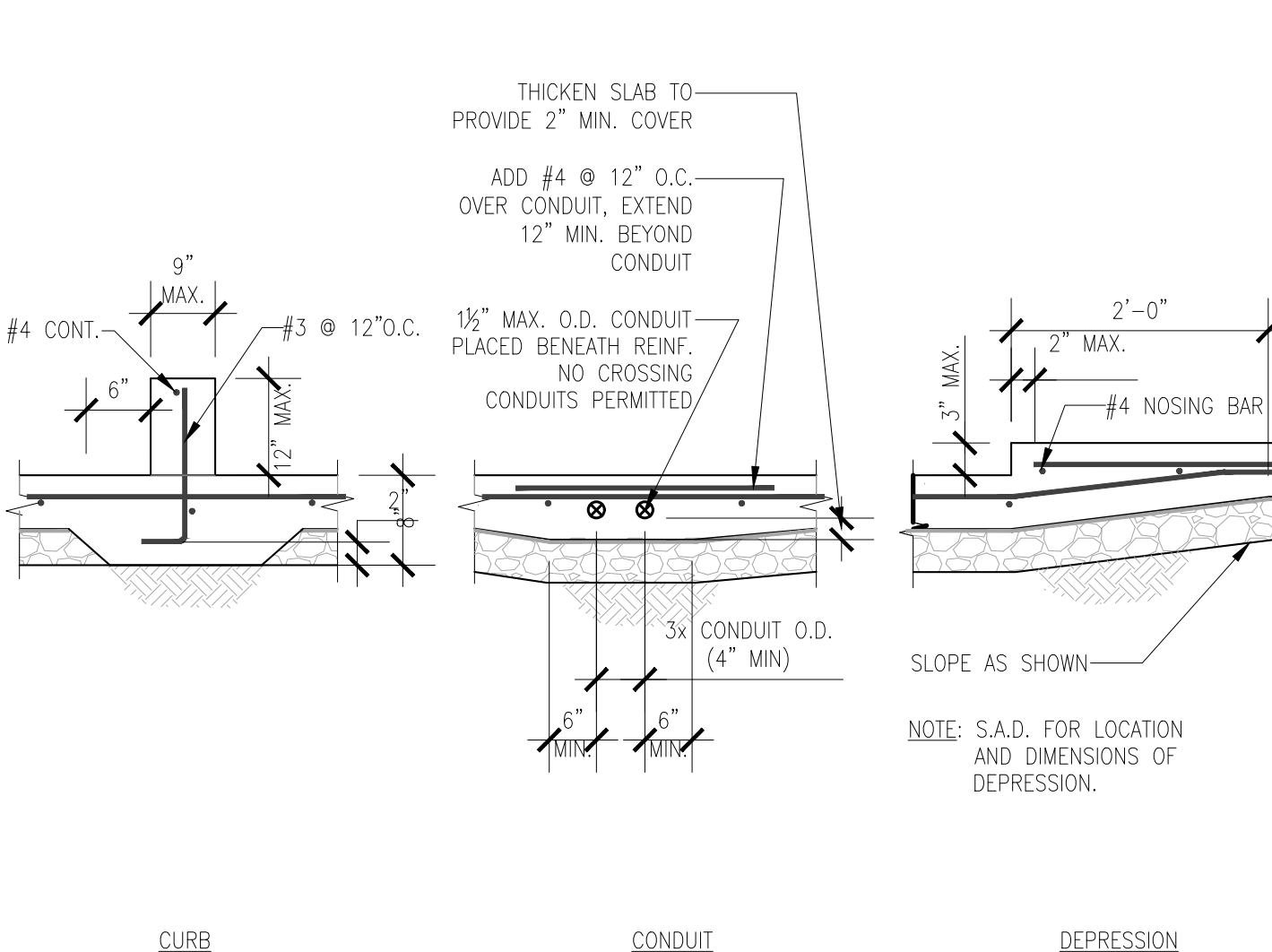
NO SCALE

17

**TYPICAL EXTERIOR STAIR ON GRADE**

NO SCALE

13

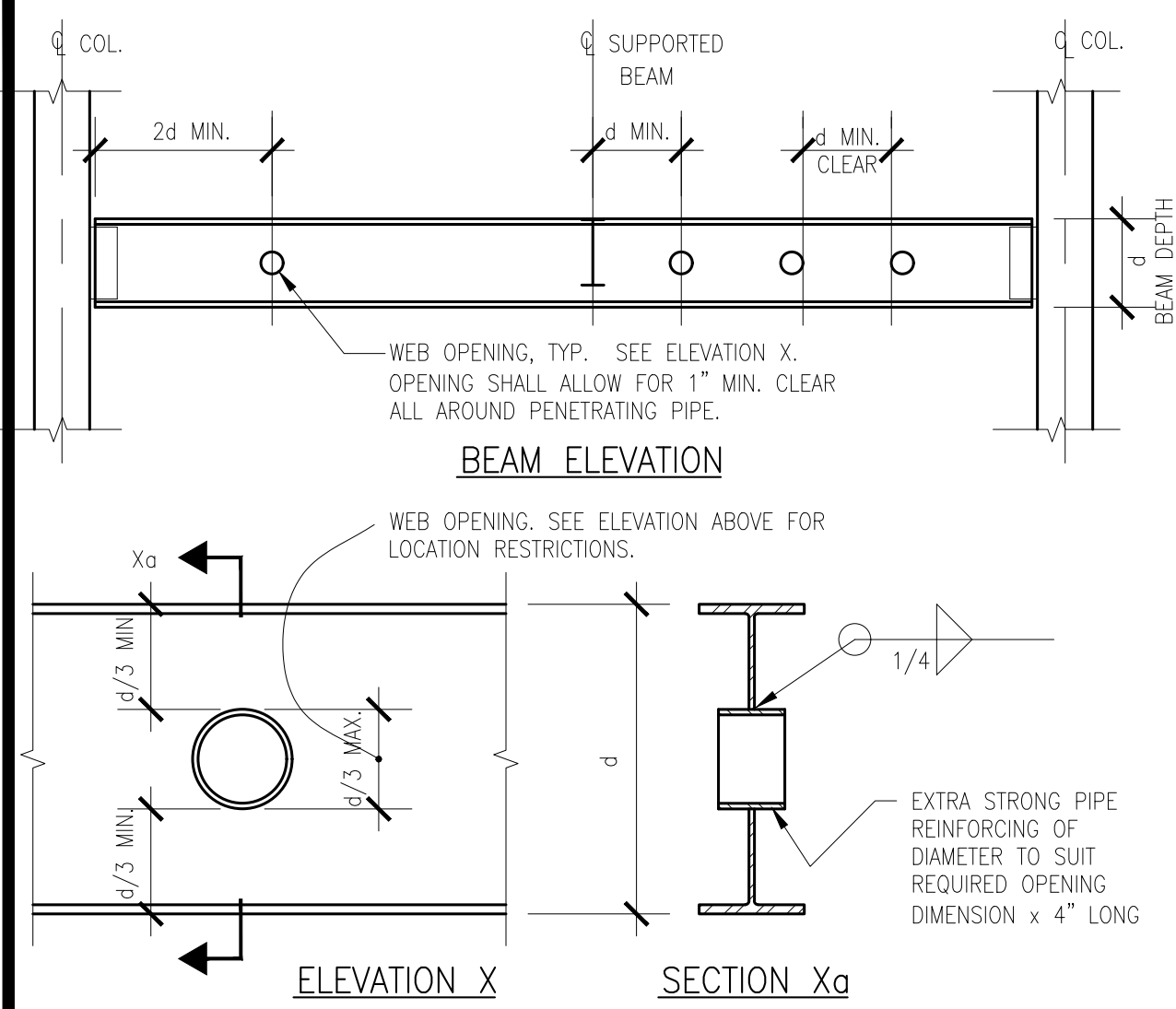
**TYPICAL SLAB-ON-GRADE DETAILS**

NO SCALE

1

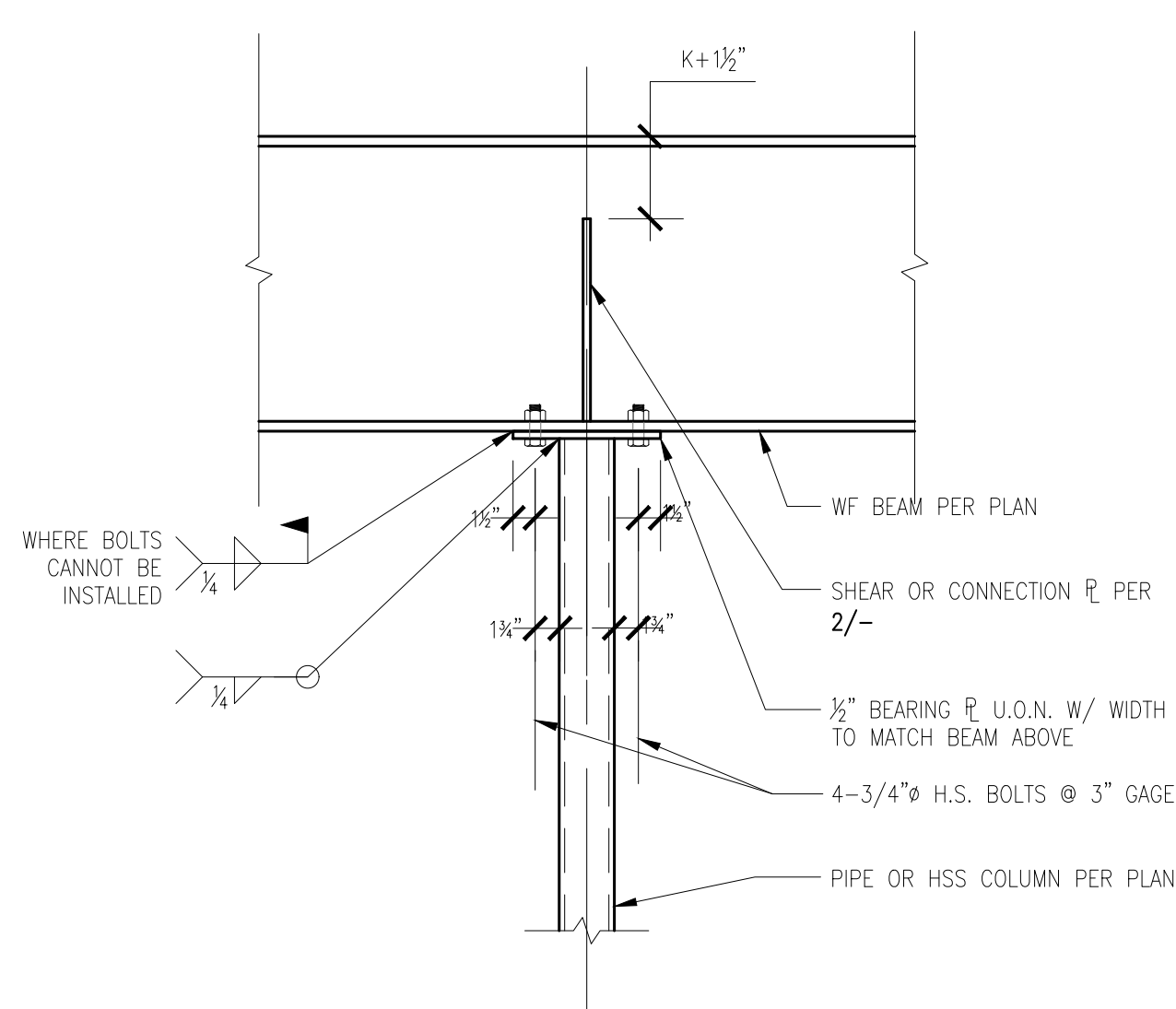
DALLAS #20215

TYPICAL INTERIOR ISOLATED
SPREAD FOOTING

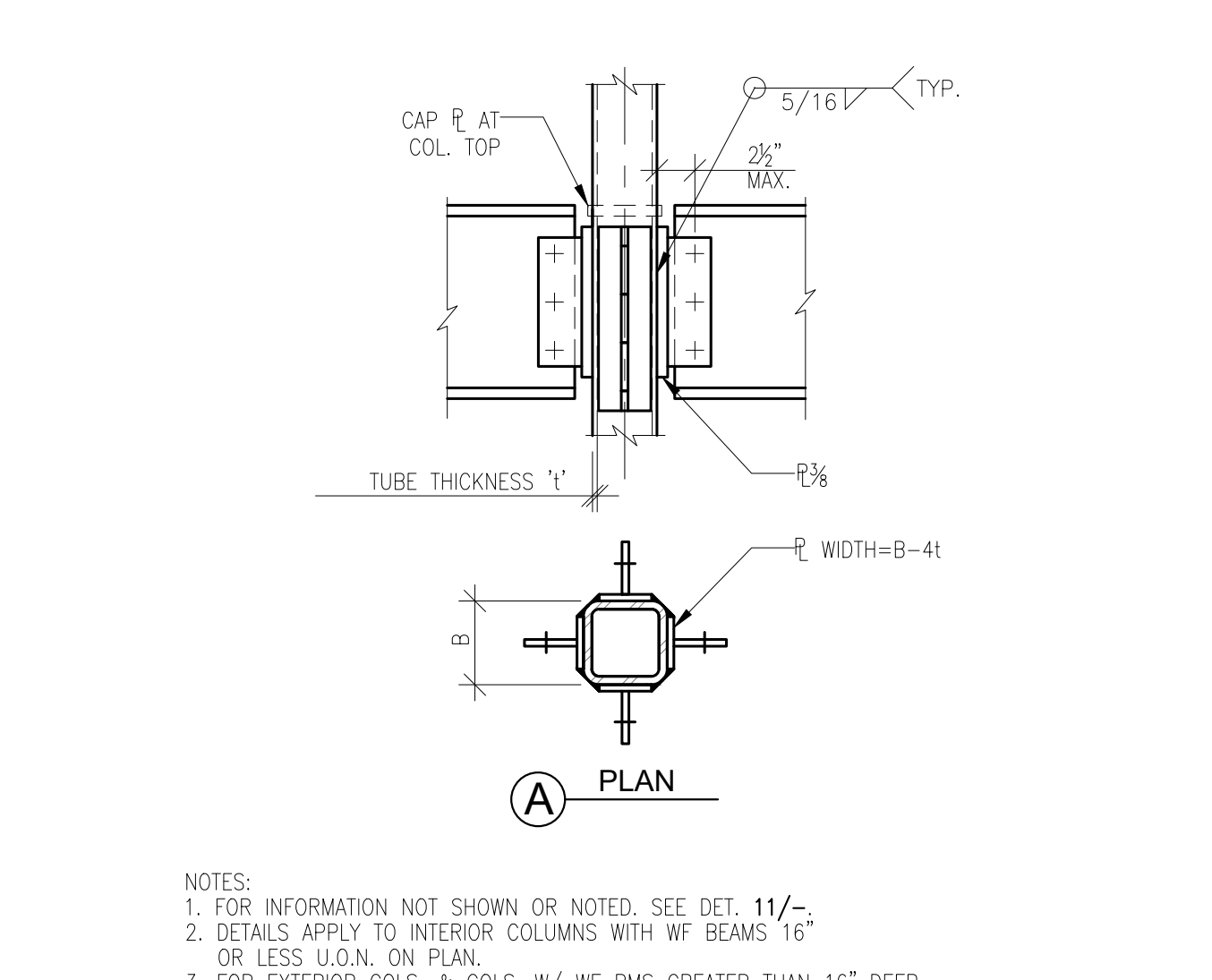


NOTE: OPENINGS 3" IN DIAMETER OR LESS THRU BEAMS OF DEPTH 12" AND GREATER DO NOT REQUIRE PIPE REINFORCING. THEY MUST CONFORM WITH ALL HORIZONTAL AND VERTICAL LOCATION RESTRICTIONS SHOWN ABOVE.

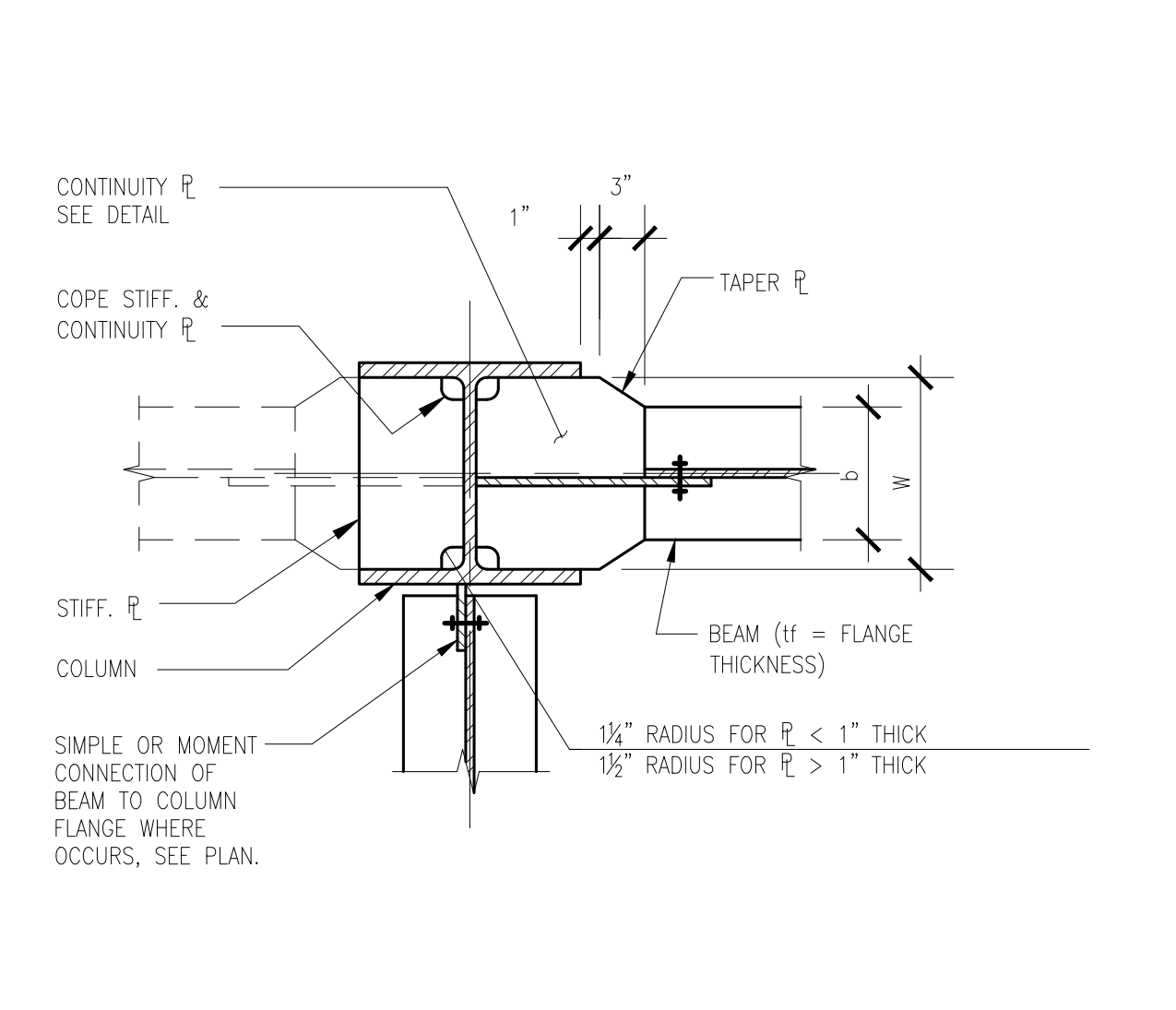
TYPICAL REINFORCED WEB OPENING IN STEEL BEAMS FOR PIPES NO SCALE



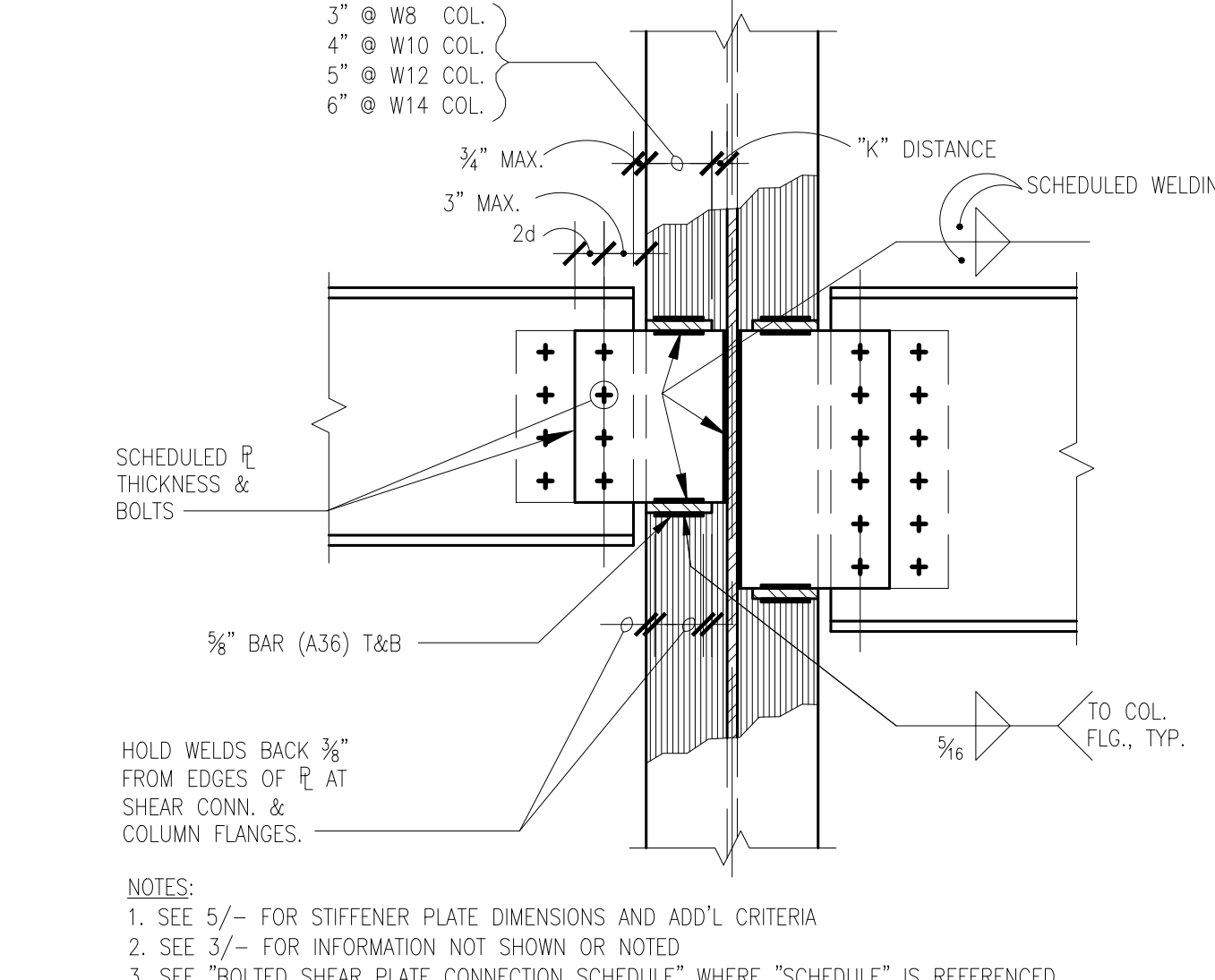
TYPICAL BEAM CONTINUOUS OVER HSS COLUMN NO SCALE



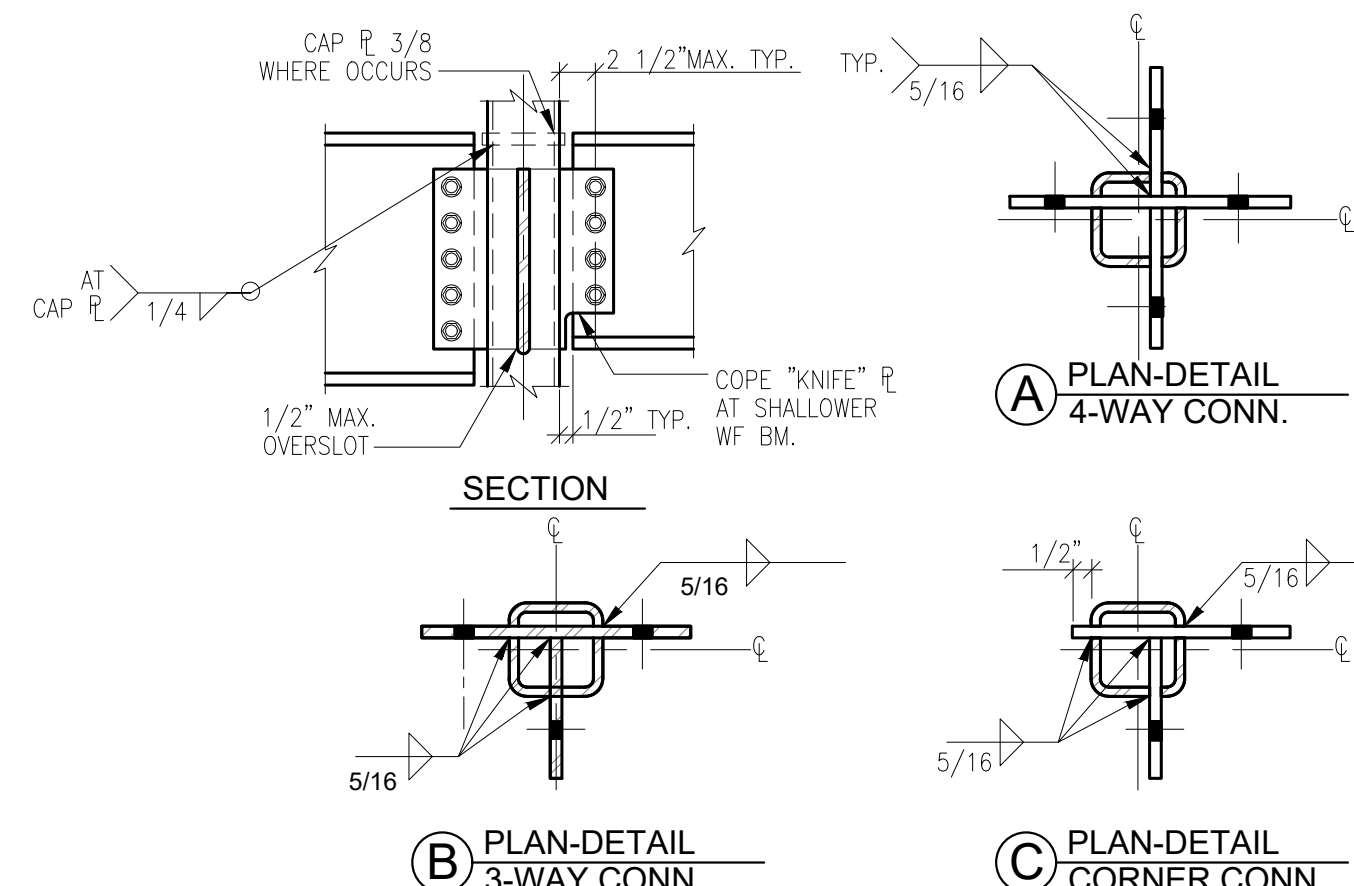
TYPICAL INTERIOR WF BEAM TO HSS COLUMN NO SCALE



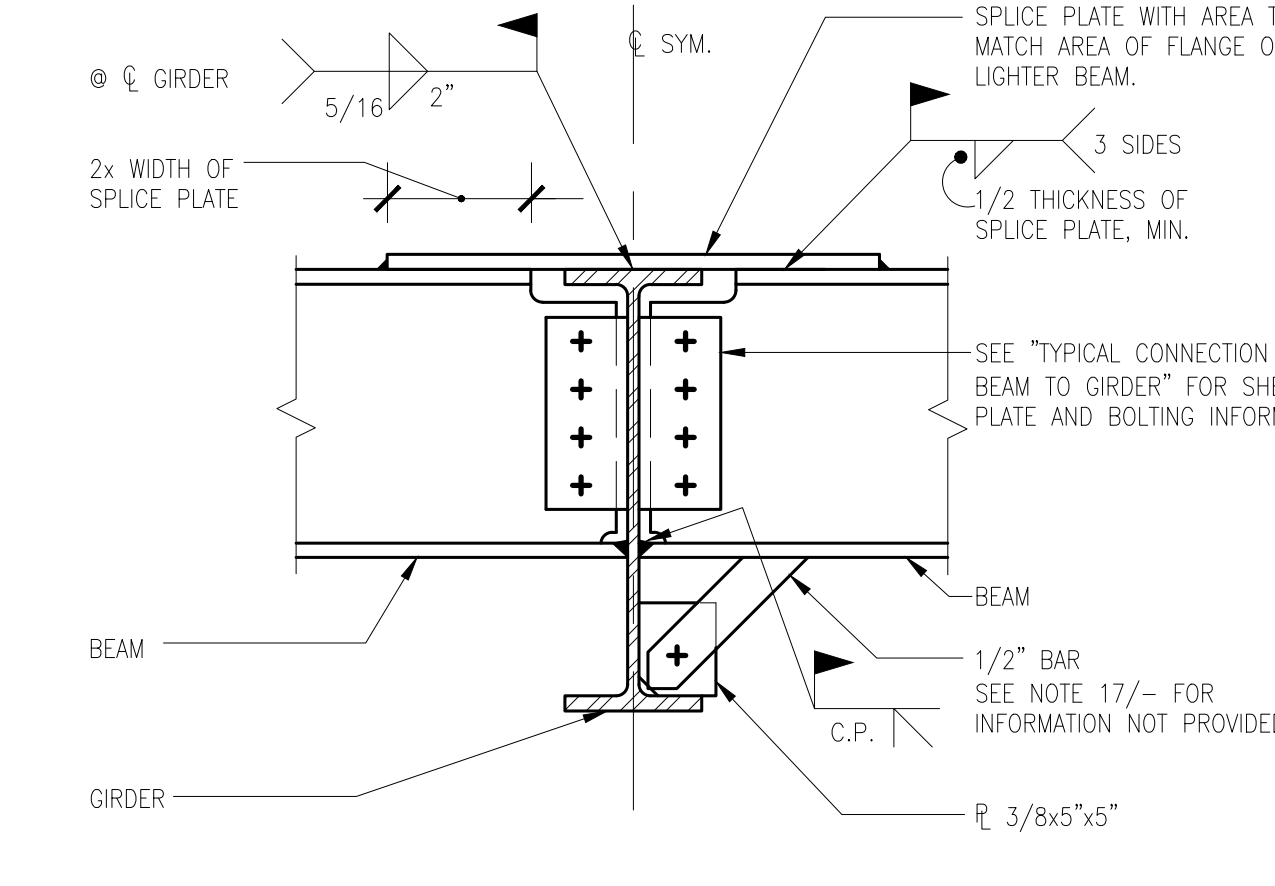
TYP. MOMENT CONN. OF BEAM TO COLUMN WEB (NON-SEISMIC) NO SCALE



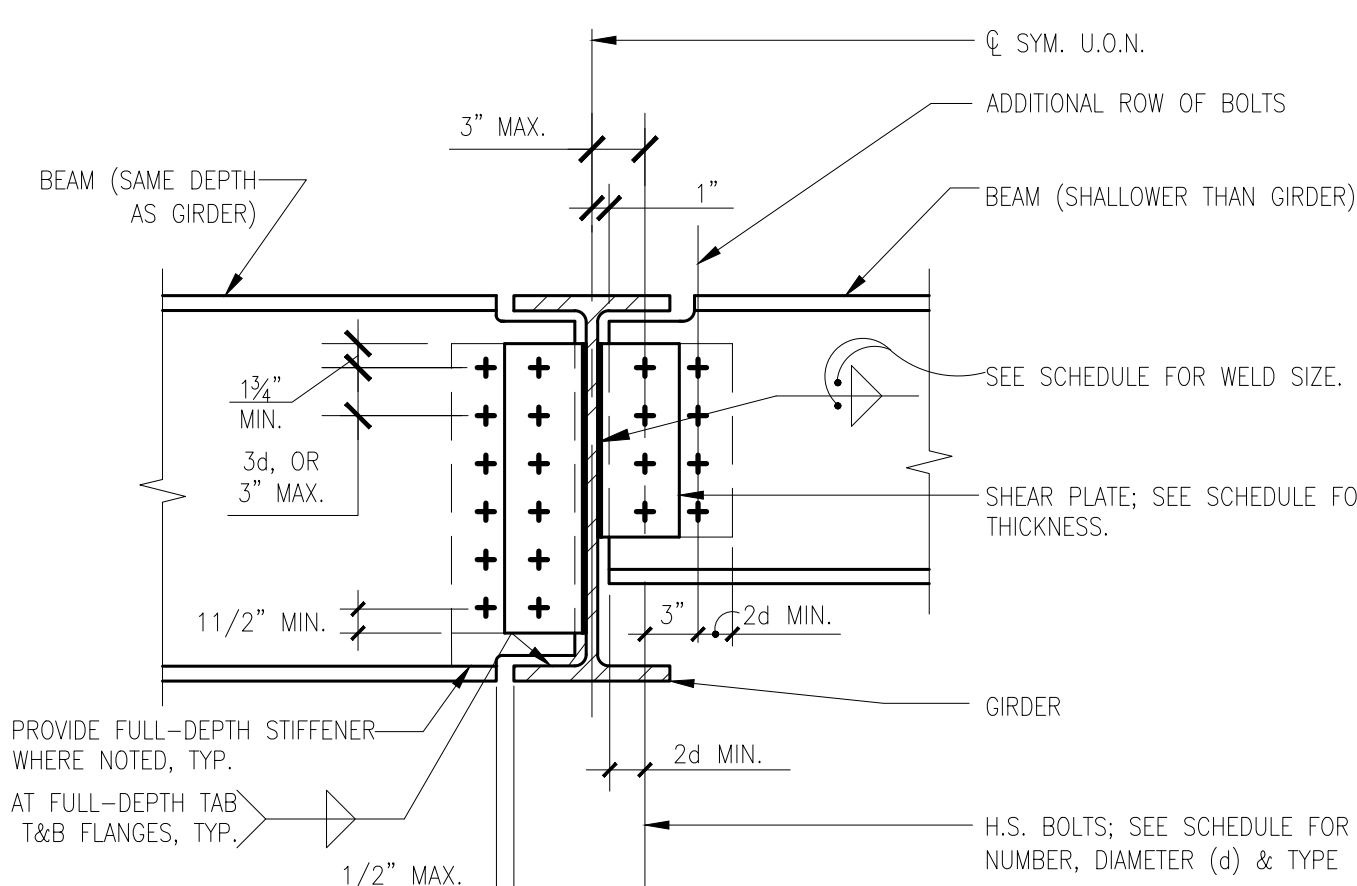
TYP. SIMPLE CONN. OF BEAM TO COL. WEB (FOR SQUARE PROPORTION COLUMNS) NO SCALE



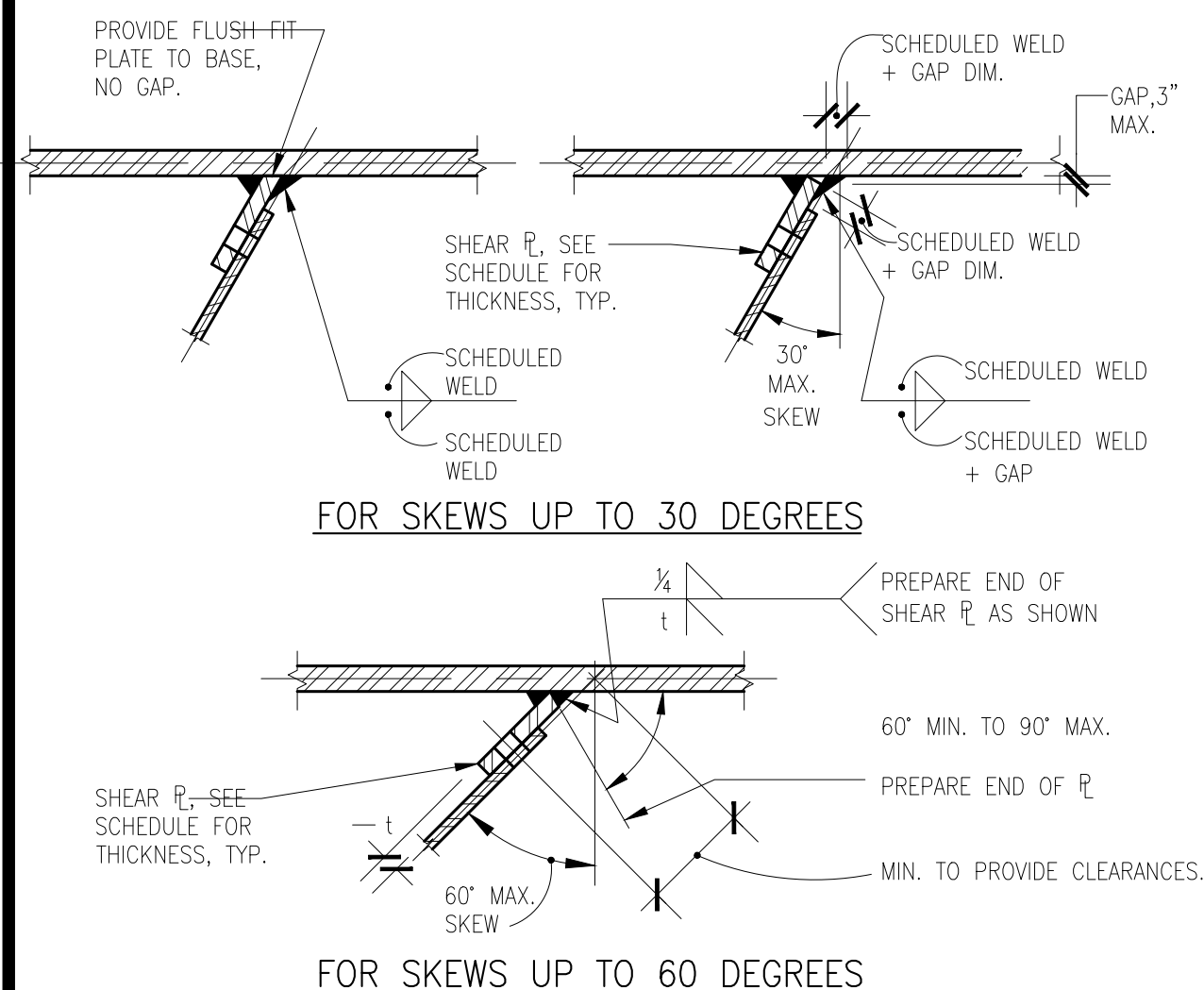
TYPICAL CONNECTION OF WF BEAM(S) TO HSS TUBE COLUMN NO SCALE



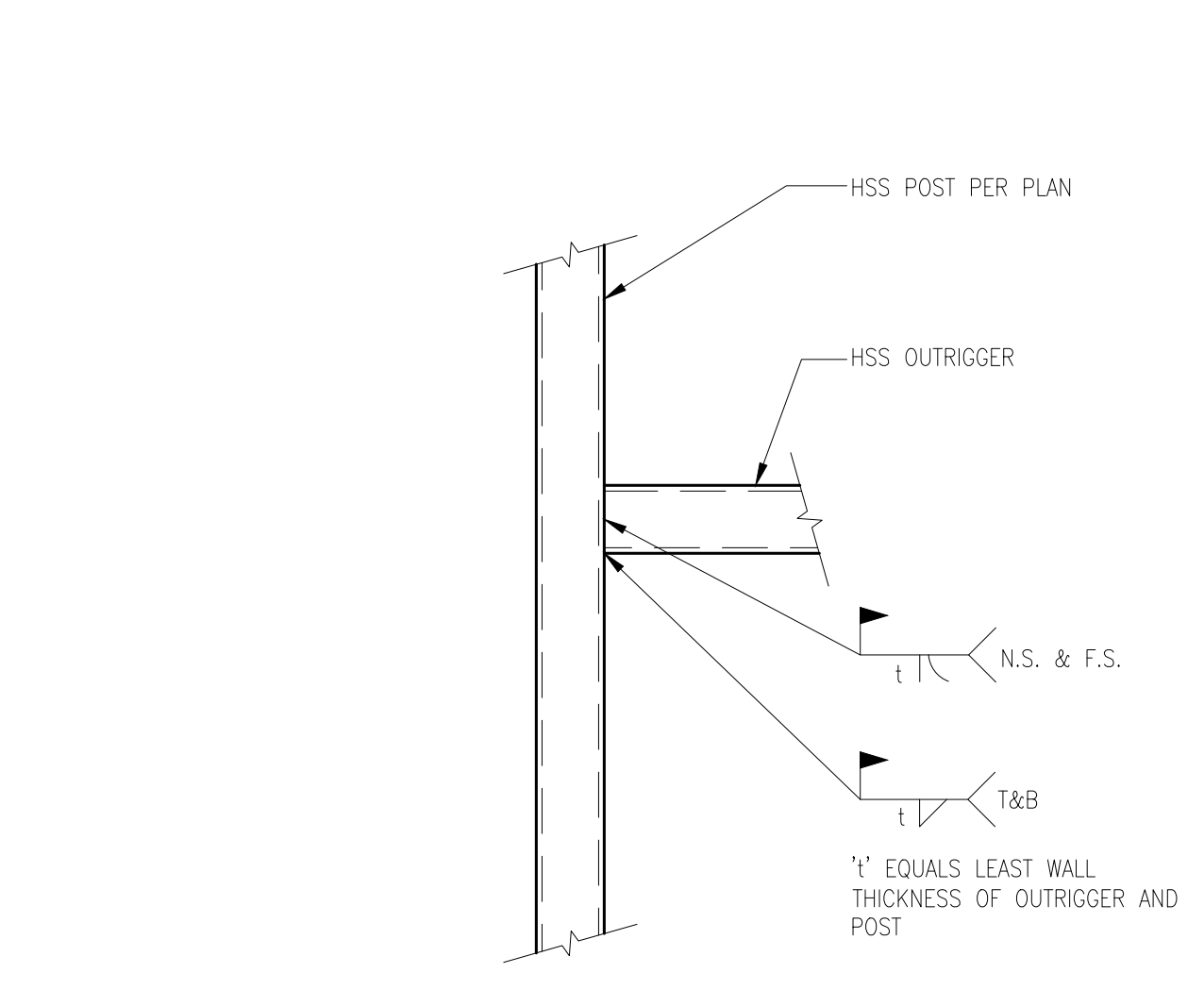
TYP. MOMENT CONNECTION OF BEAM TO GIRDER (NON-SEISMIC) 1"=1'-0"



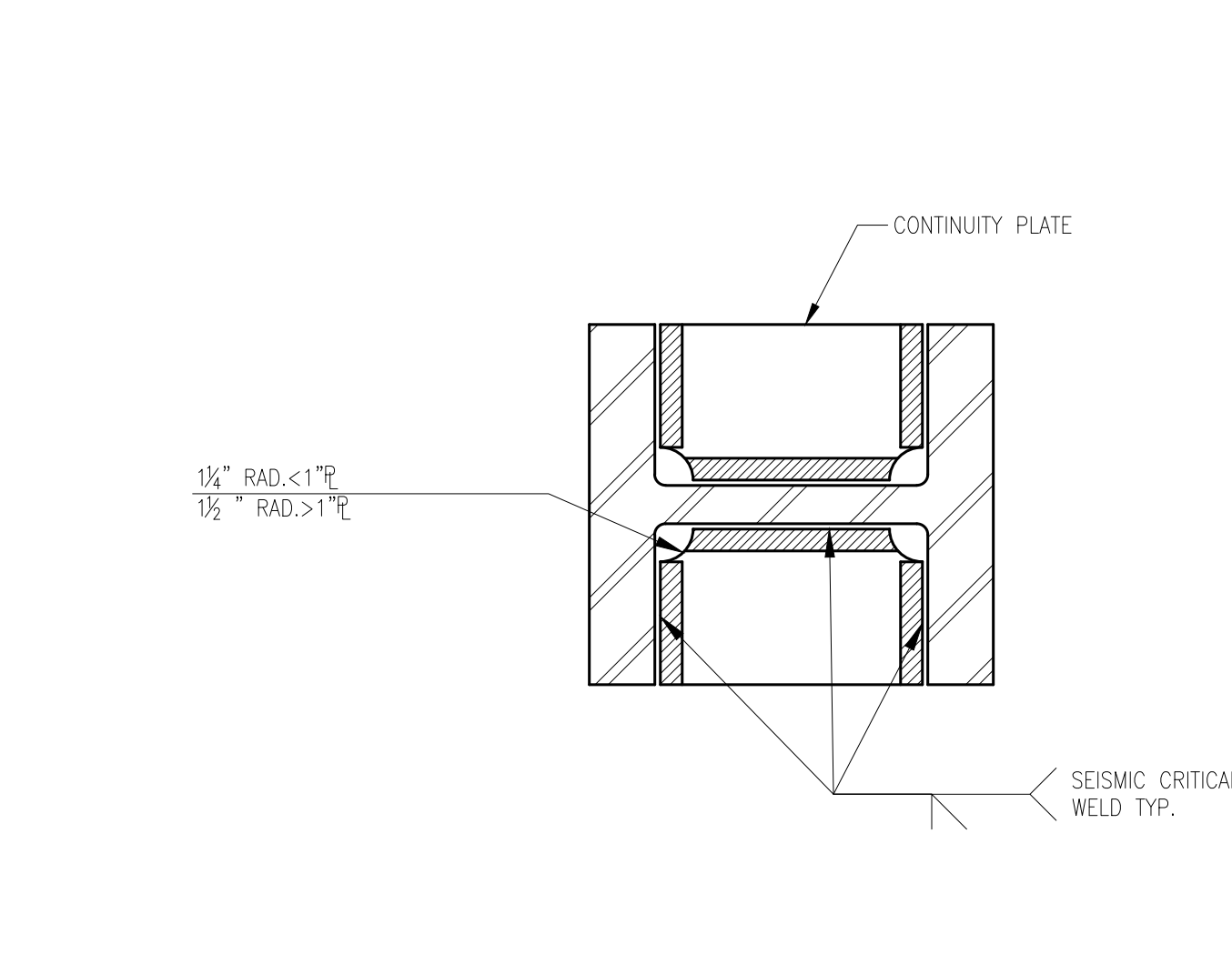
TYPICAL CONNECTION OF BEAM TO GIRDER NO SCALE



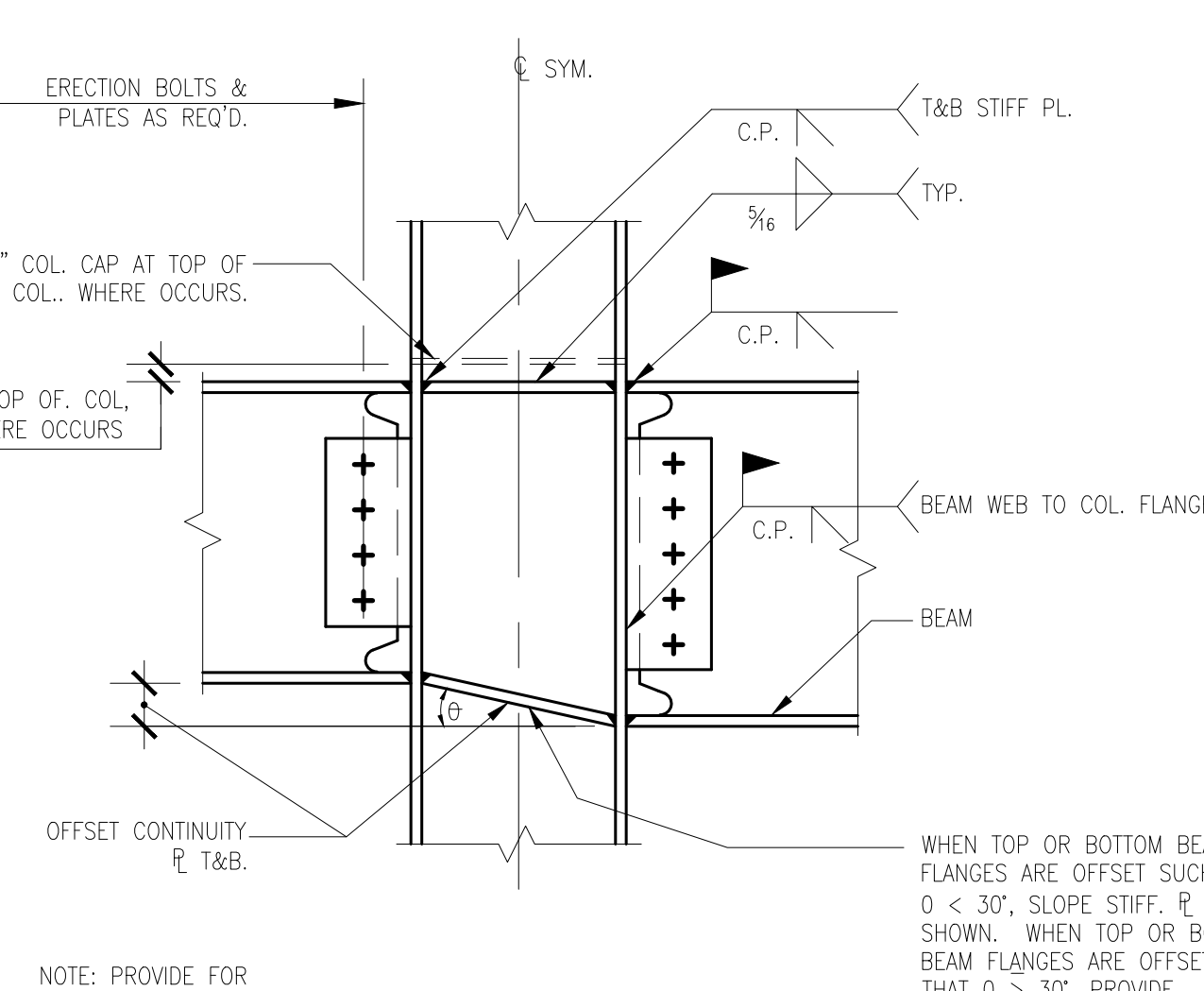
SHEAR CONNECTOR PLATES AT SKEWED BEAMS CONNECTION NO SCALE



TYP. HSS BEAM TO HSS COLUMN (MOMENT NON-SEISMIC) NO SCALE



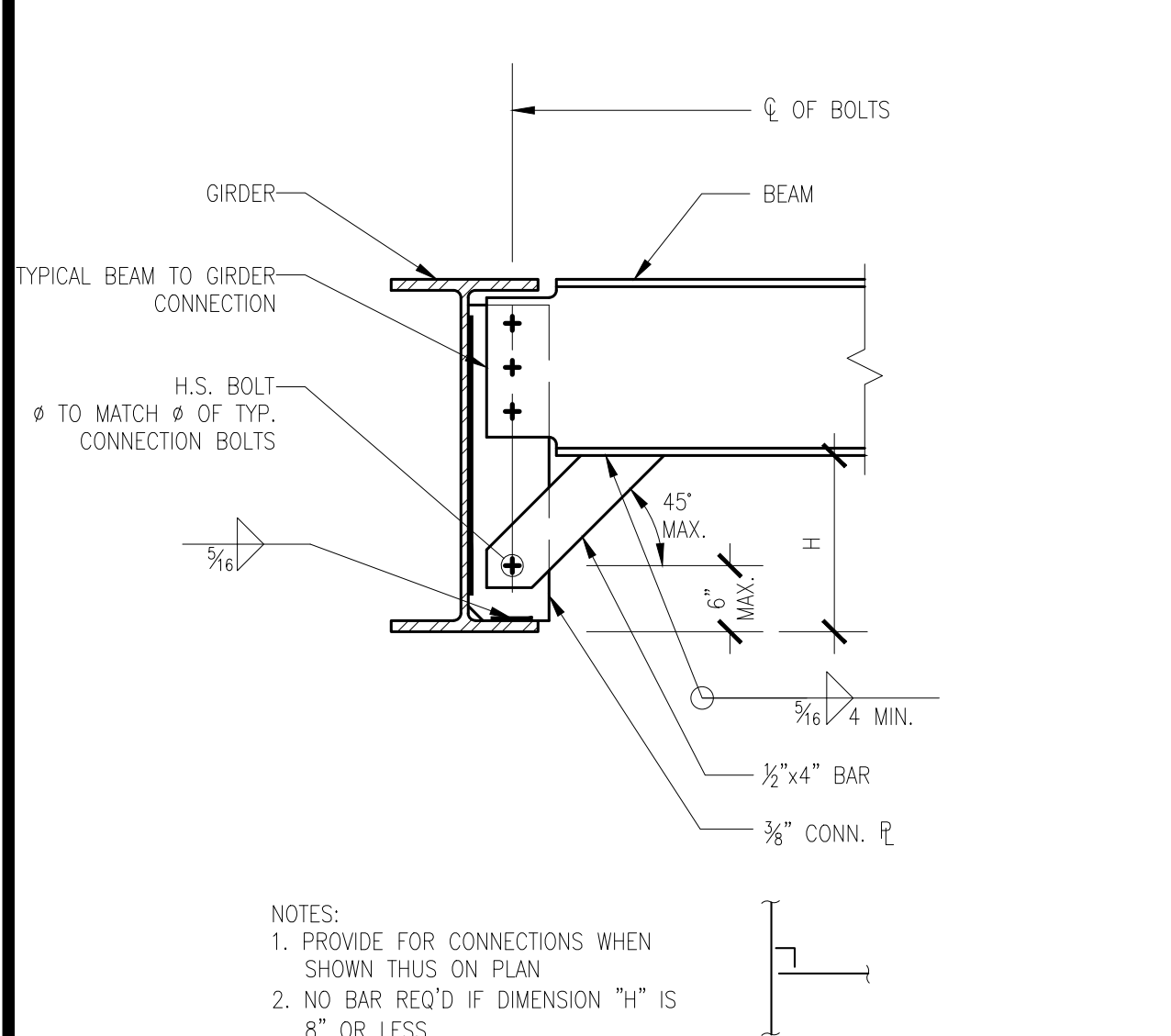
TYP. COLUMN CONTINUITY PLATE NO SCALE



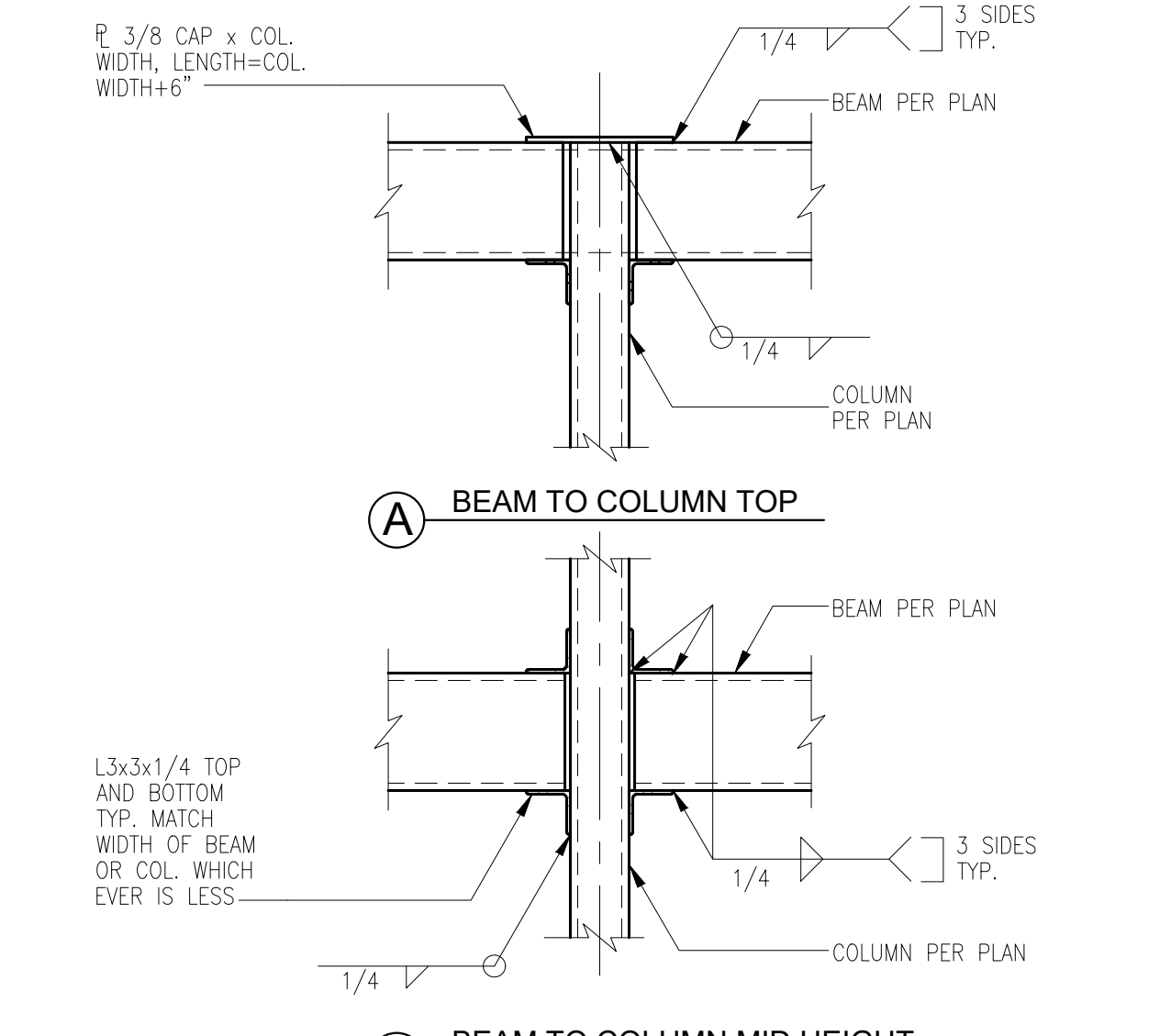
TYP. MOMENT CONNECTION OF BEAM TO COLUMN FLANGE (NON-SEISMIC) NO SCALE

BEAM SIZE	NO. OF BOLTS	SHEAR PLATE THICKNESS (INCHES)	WELD SIZE (INCHES)
W8, W10, C8, C10	2	$\frac{3}{16}$	$\frac{3}{8}$
W12, W14, C12	3	$\frac{3}{16}$	$\frac{3}{8}$
W16, W18	4	$\frac{3}{16}$	$\frac{3}{8}$
W21	5	$\frac{3}{16}$	$\frac{3}{8}$
W24	6	$\frac{3}{16}$	$\frac{3}{8}$
W27	7	$\frac{3}{16}$	$\frac{3}{8}$
W30	8	$\frac{3}{16}$	$\frac{3}{8}$
W33	9	$\frac{3}{16}$	$\frac{3}{8}$
W36	10	$\frac{3}{16}$	$\frac{3}{8}$

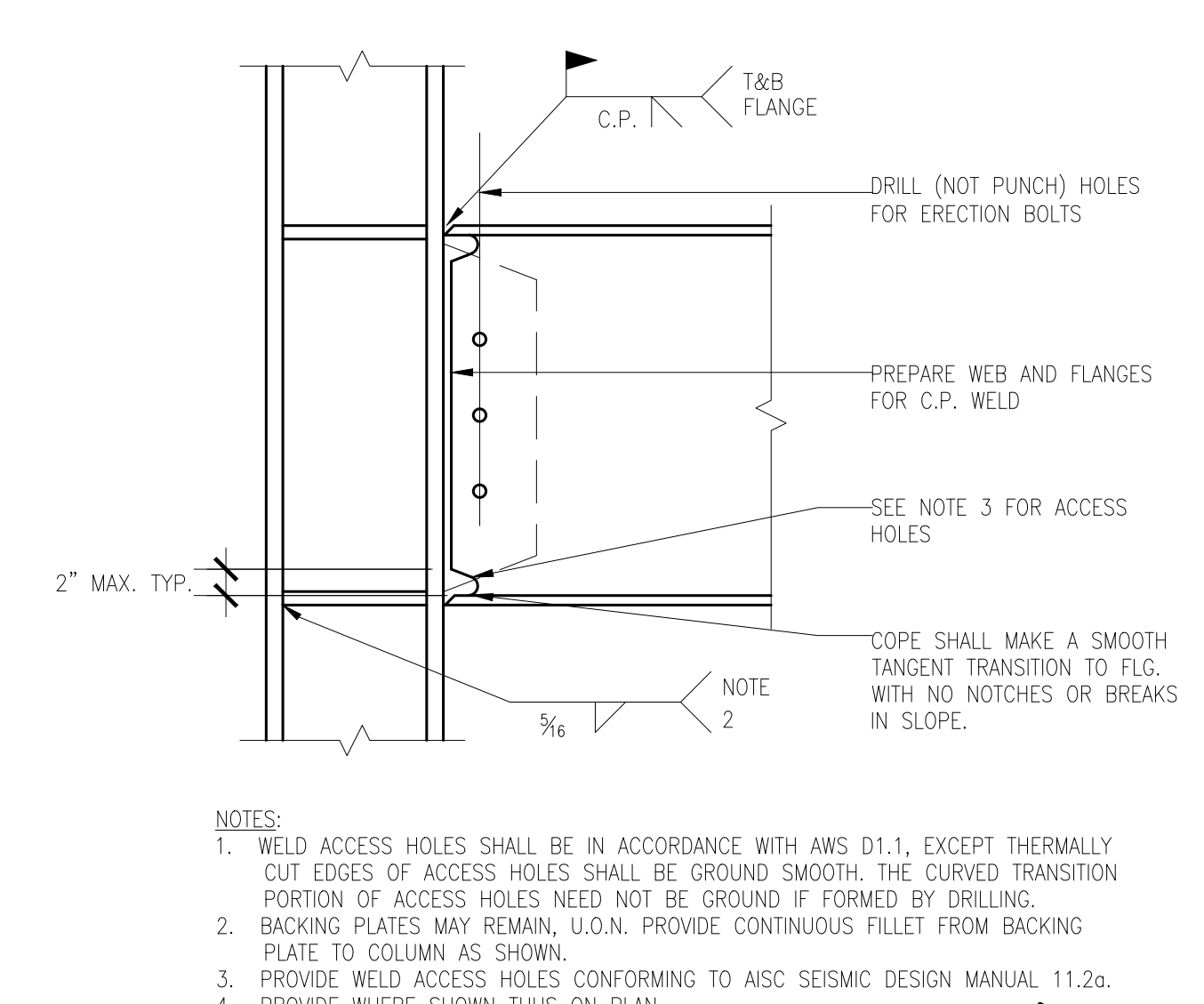
TYP. BOLTED SHEAR PLATE CONN. SCHEDULE NO SCALE



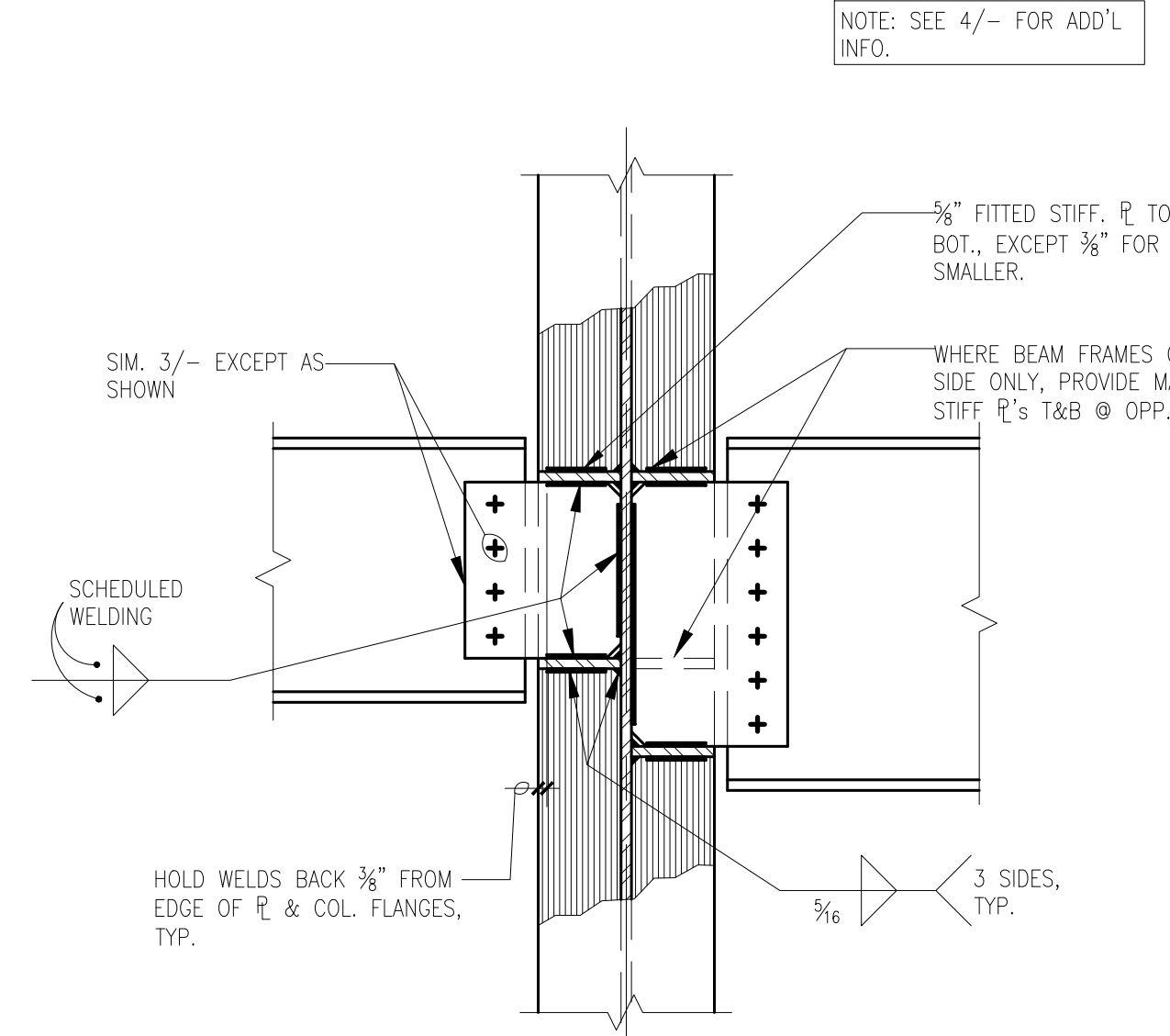
TYP. BOTTOM FLANGE BRACING DET. NO SCALE



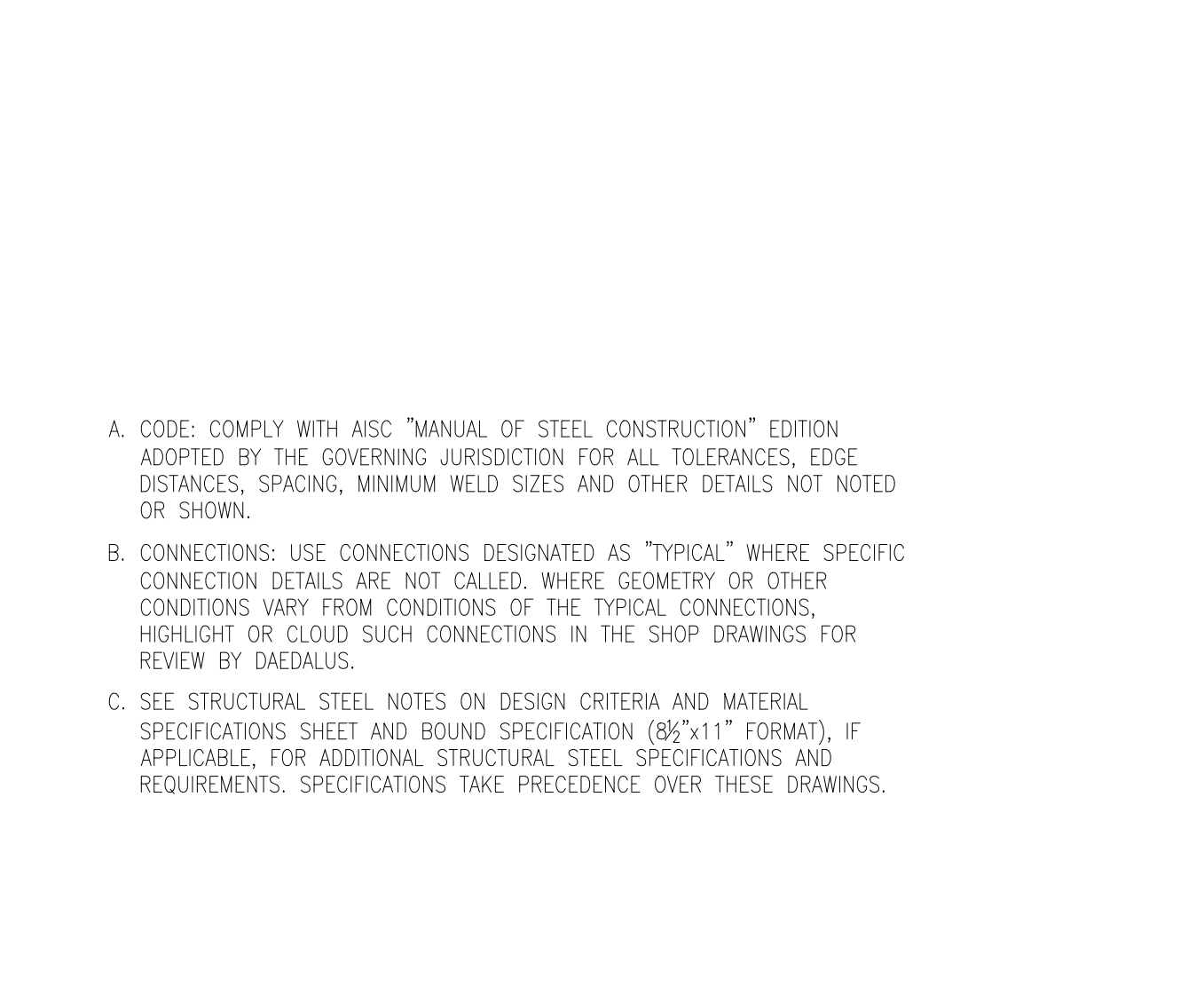
TYPICAL HSS BEAM TO HSS COLUMN CONNECTION NO SCALE



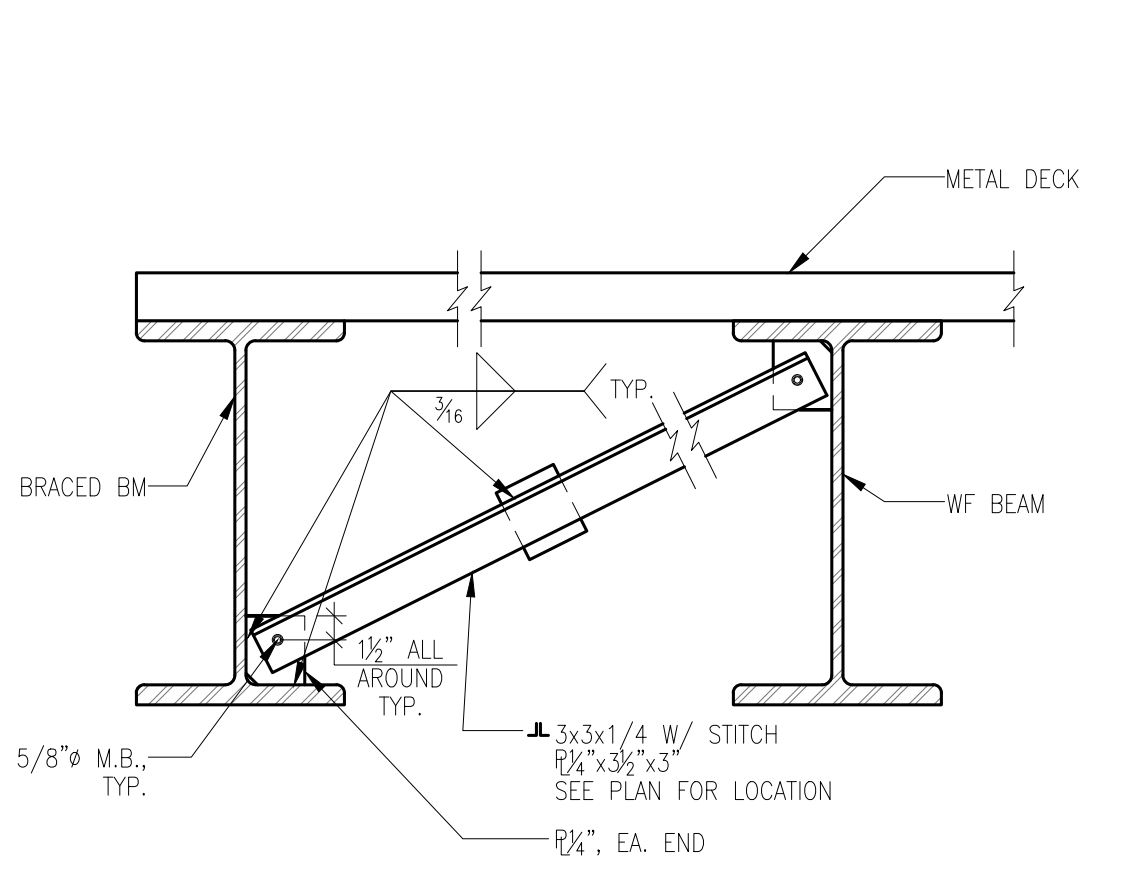
TYP. MOMENT CONNECTION OF BM. TO COLUMN FLANGE (SEISMIC) 1"=1'-0"



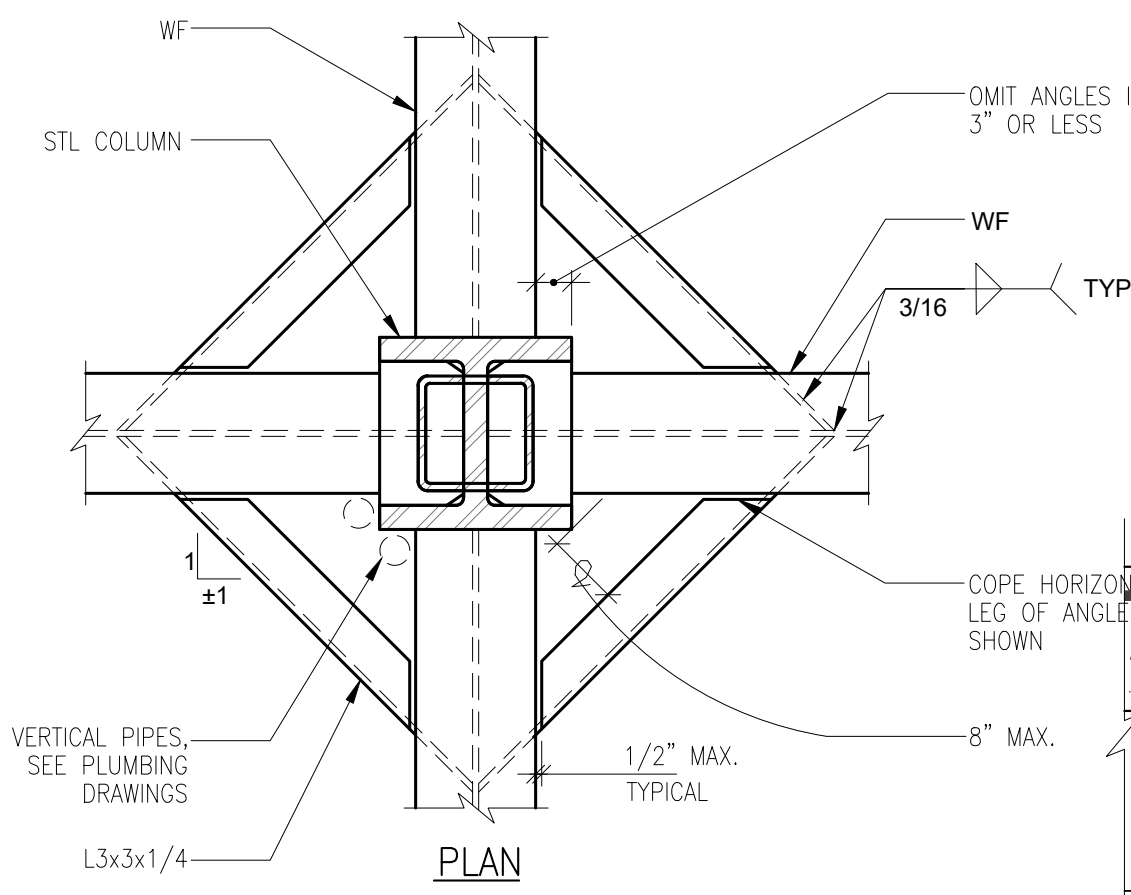
TYP. SIMPLE CONN. OF BEAM TO COL. WEB (COL. FLG. WIDTH < COL. DEPTH) 1"=1'-0"



STEEL FRAMING NOTES NO SCALE



TYP. BEAM BOTT. FLANGE BRACING AT DECK (SEISMIC) 20
NO SCALE

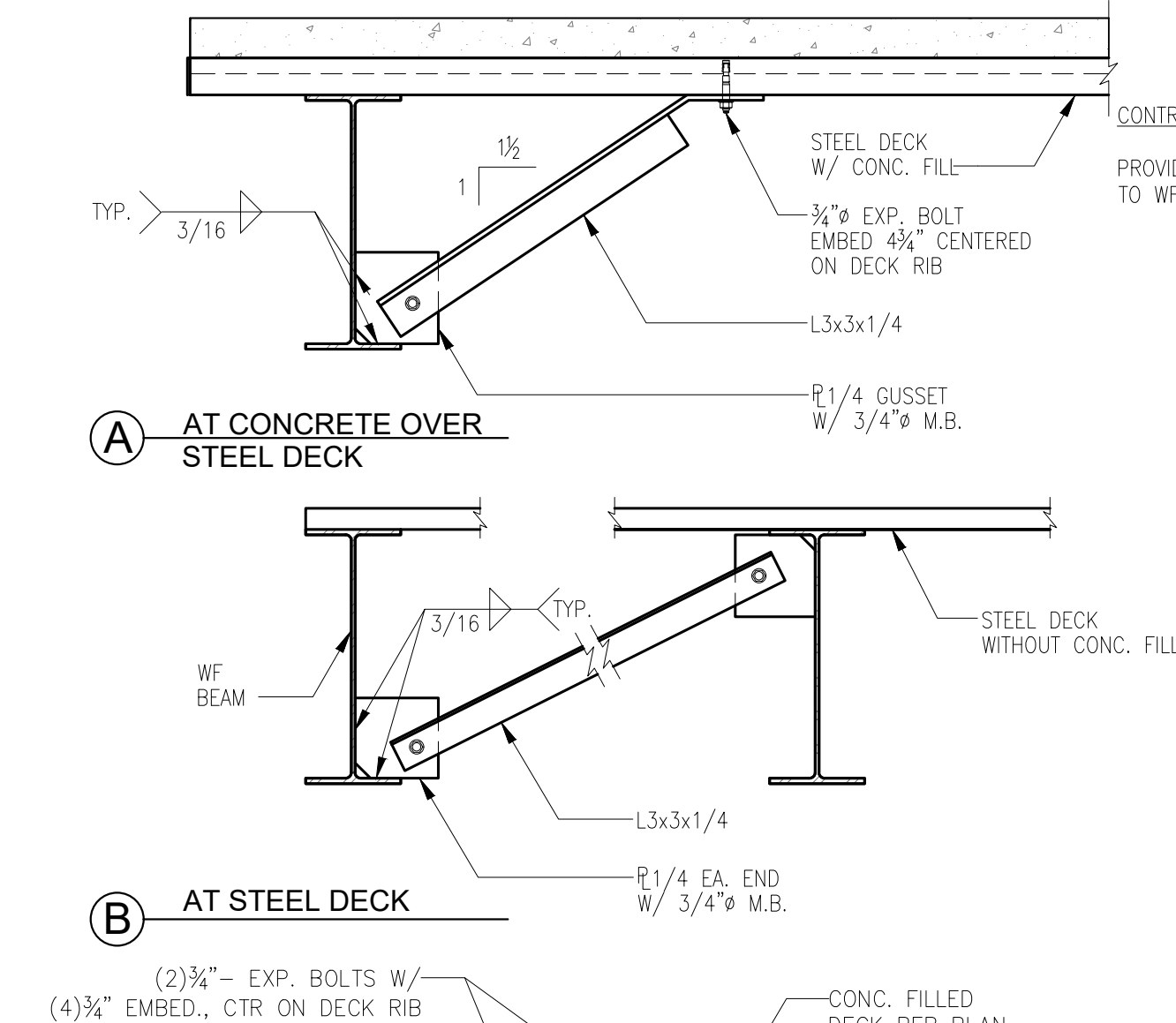
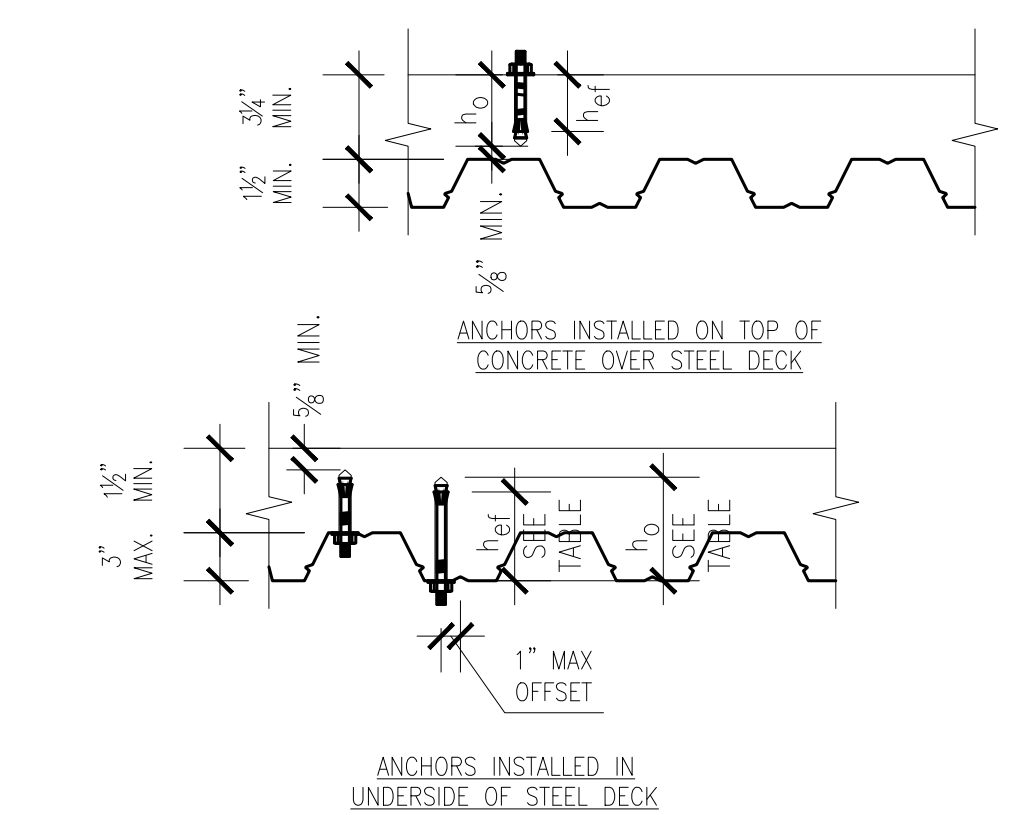


STEEL DECK SUPPORT AT COLUMN 19
NO SCALE

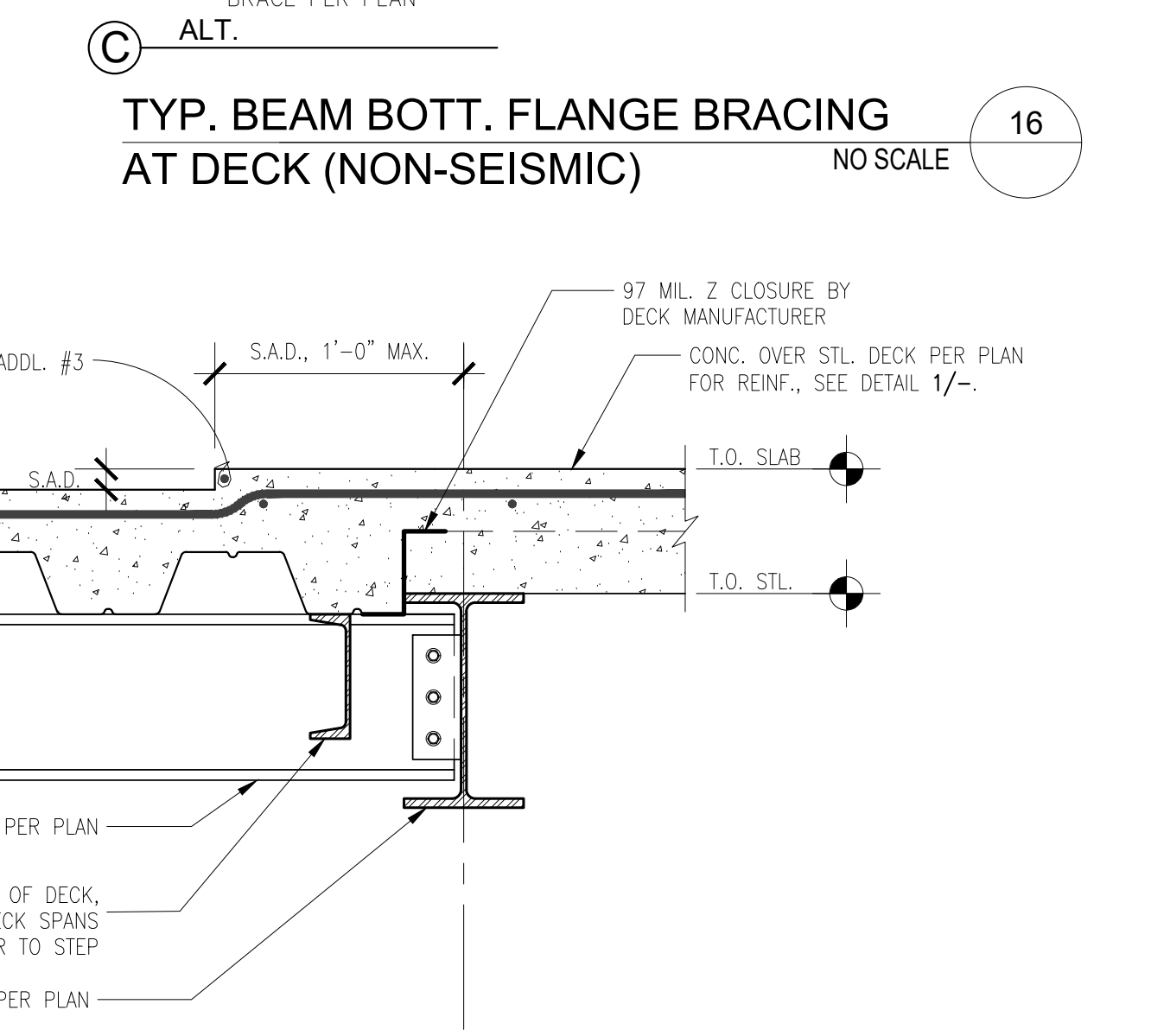
ANCHORS INSTALLED IN UNDERSIDE OF STEEL DECK:			
ANCHOR DIAMETER	EFFECTIVE EMBED., h _{ef}	PULLOUT STRENGTH, f _{ts}	
3/8"	2"	1460	
1/2"	3 1/4"	2620	
5/8"	4"	4645	

ANCHORS INSTALLED ON TOP OF CONCRETE OVER STEEL DECK: ¹			
ANCHOR DIAMETER	EFFECTIVE EMBED., h _{ef}	PULLOUT STRENGTH, f _{ts}	
3/8"	2"	2270	
1/2"	3 1/4"	4915	

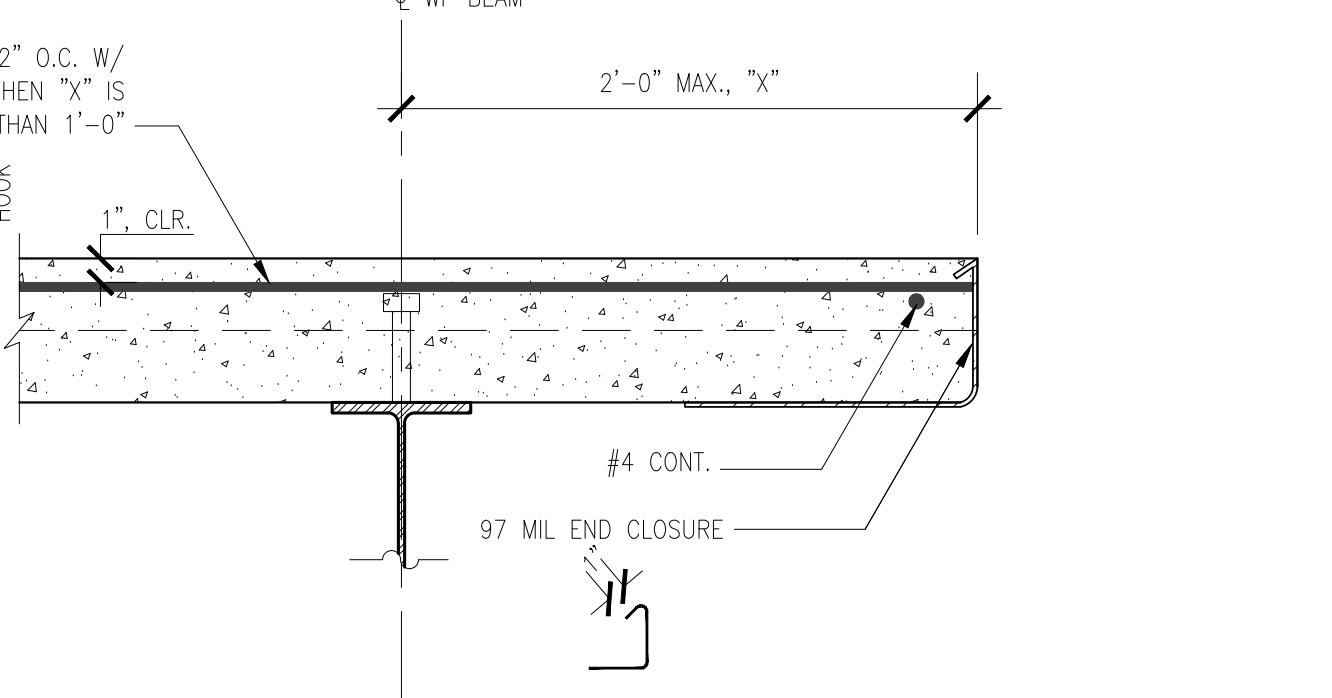
1. MIN. CONCRETE THICKNESS=3/4"



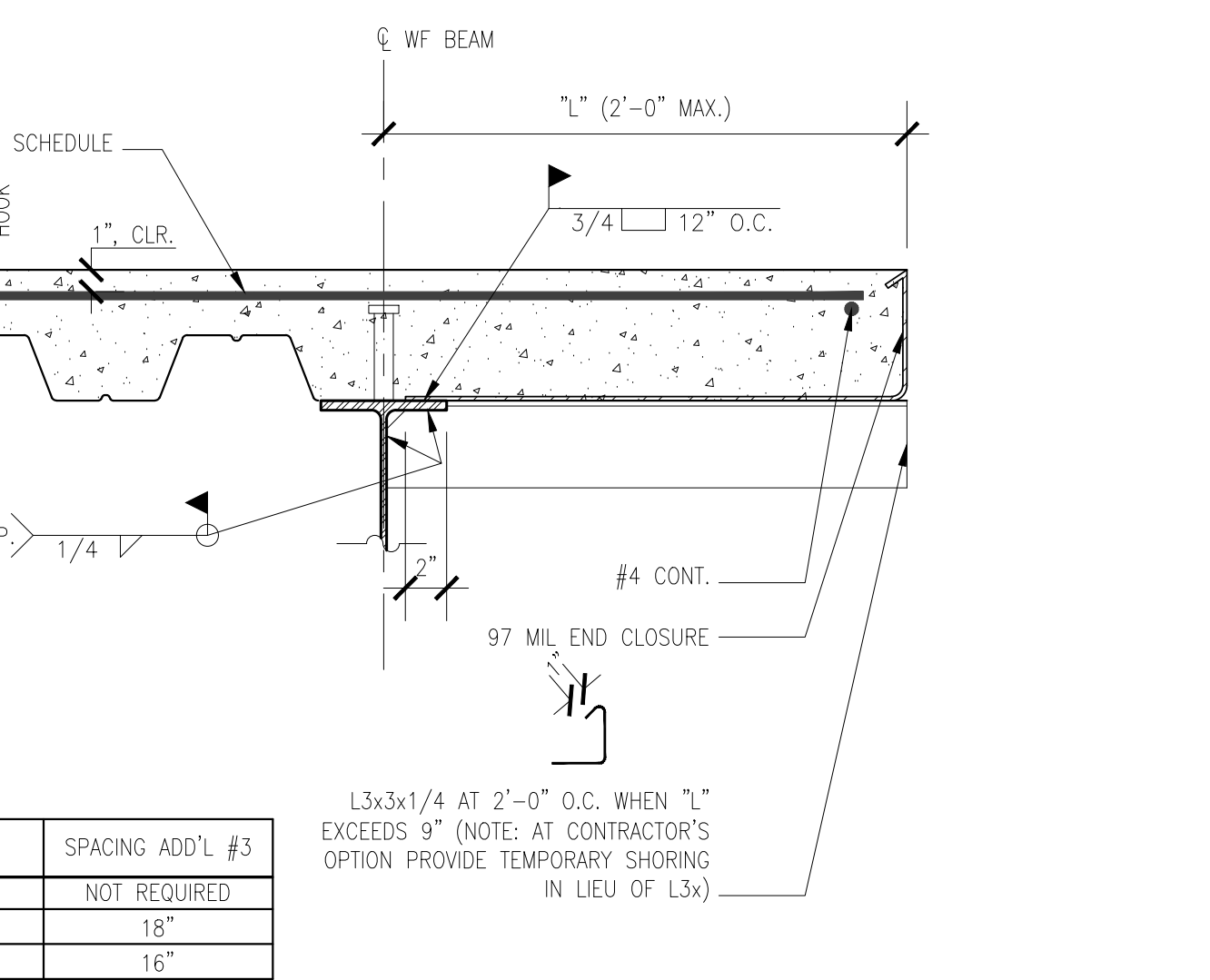
TYP. BEAM BOTT. FLANGE BRACING AT DECK (NON-SEISMIC) 16
NO SCALE



TYP. DEPRESSIONED SLAB 15
1 1/2" = 1'-0"

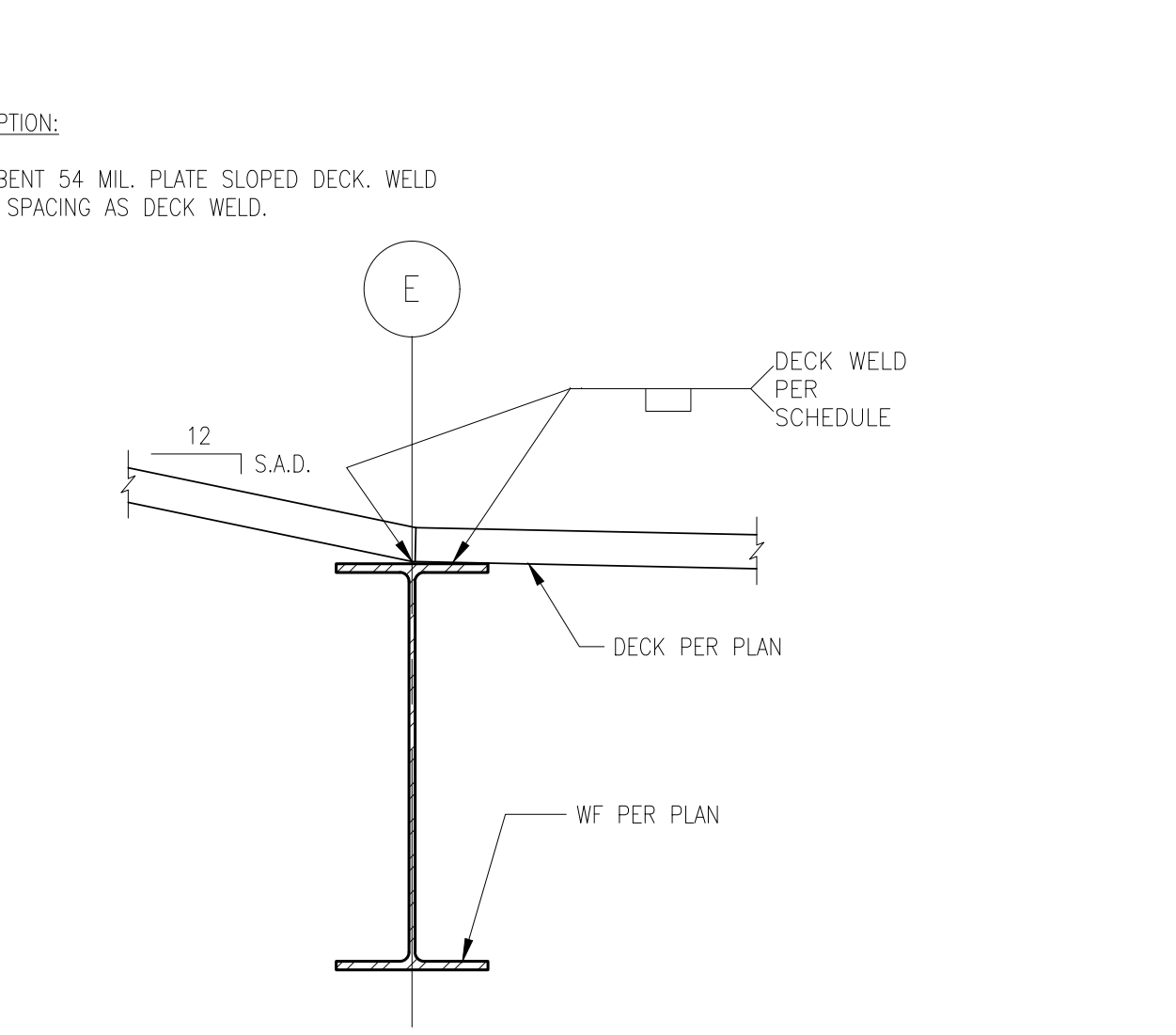


TYP. EDGE OF DECK (PERPENDICULAR TO WF) 14
1 1/2" = 1'-0"

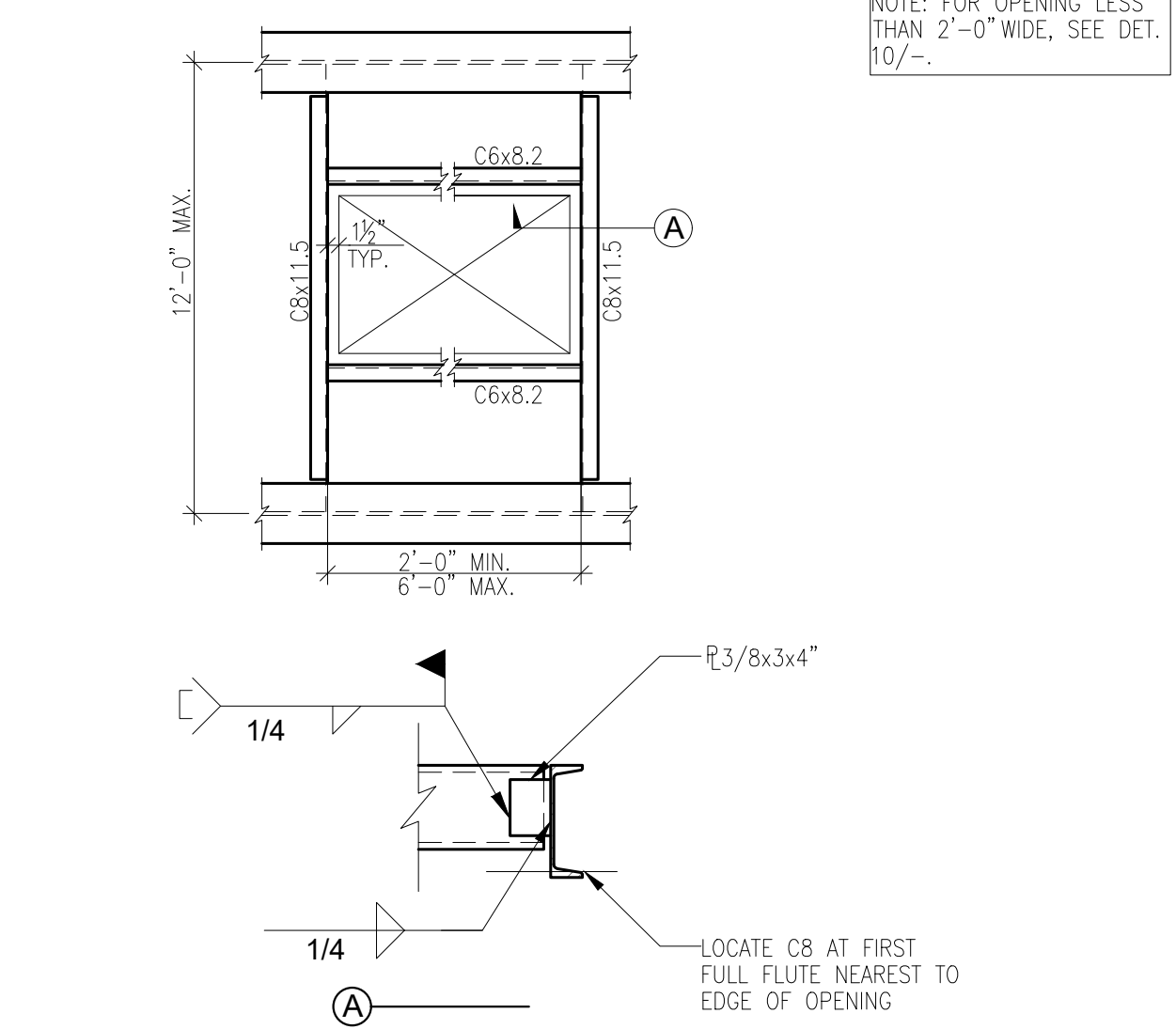


TYP. EDGE OF DECK (PARALLEL TO WF) 13
1 1/2" = 1'-0"

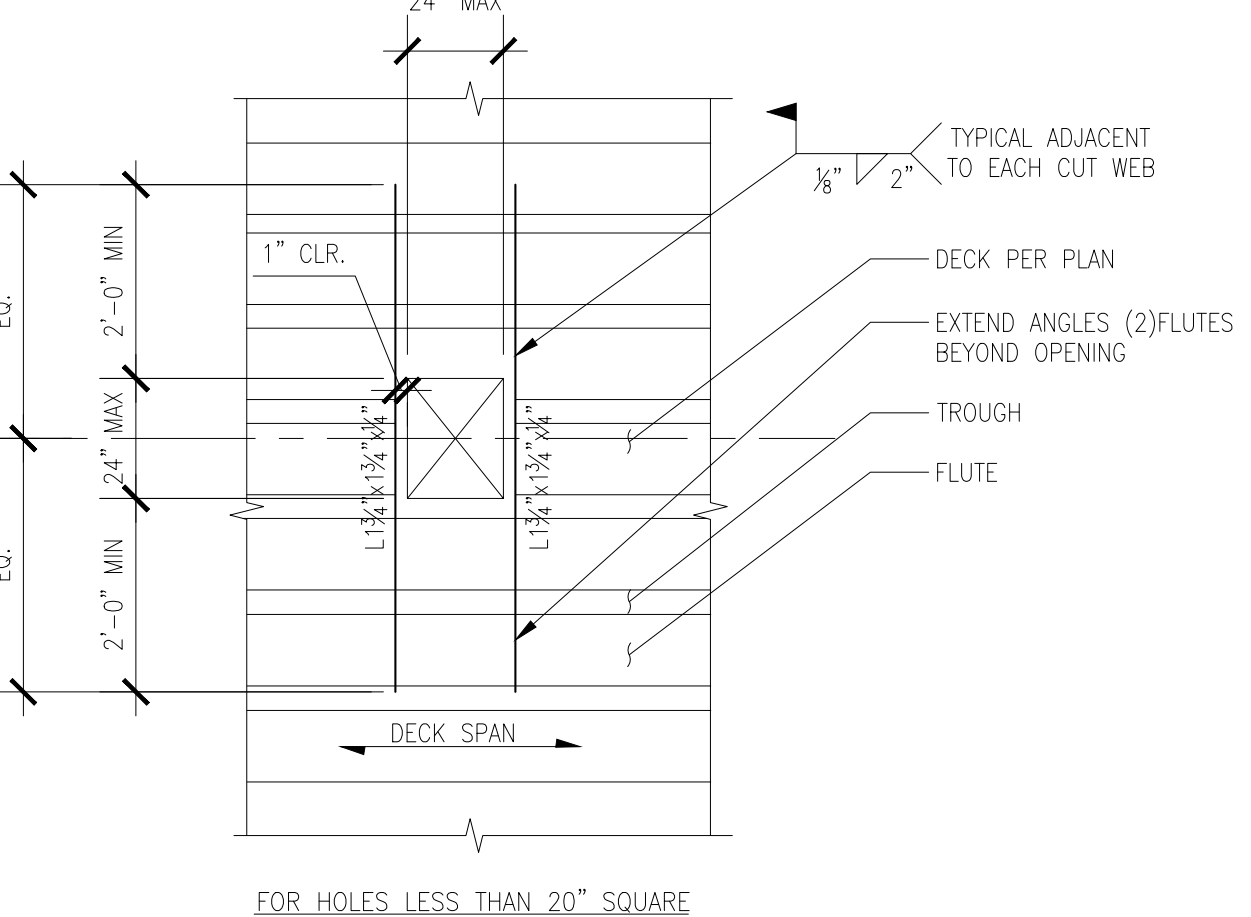
TYPICAL WEDGE TYPE EXPANSION ANCHOR 17
1" = 1'-0"



TYP. DECK SLOPE CHANGE AT WF BEAM 12
1 1/2" = 1'-0"

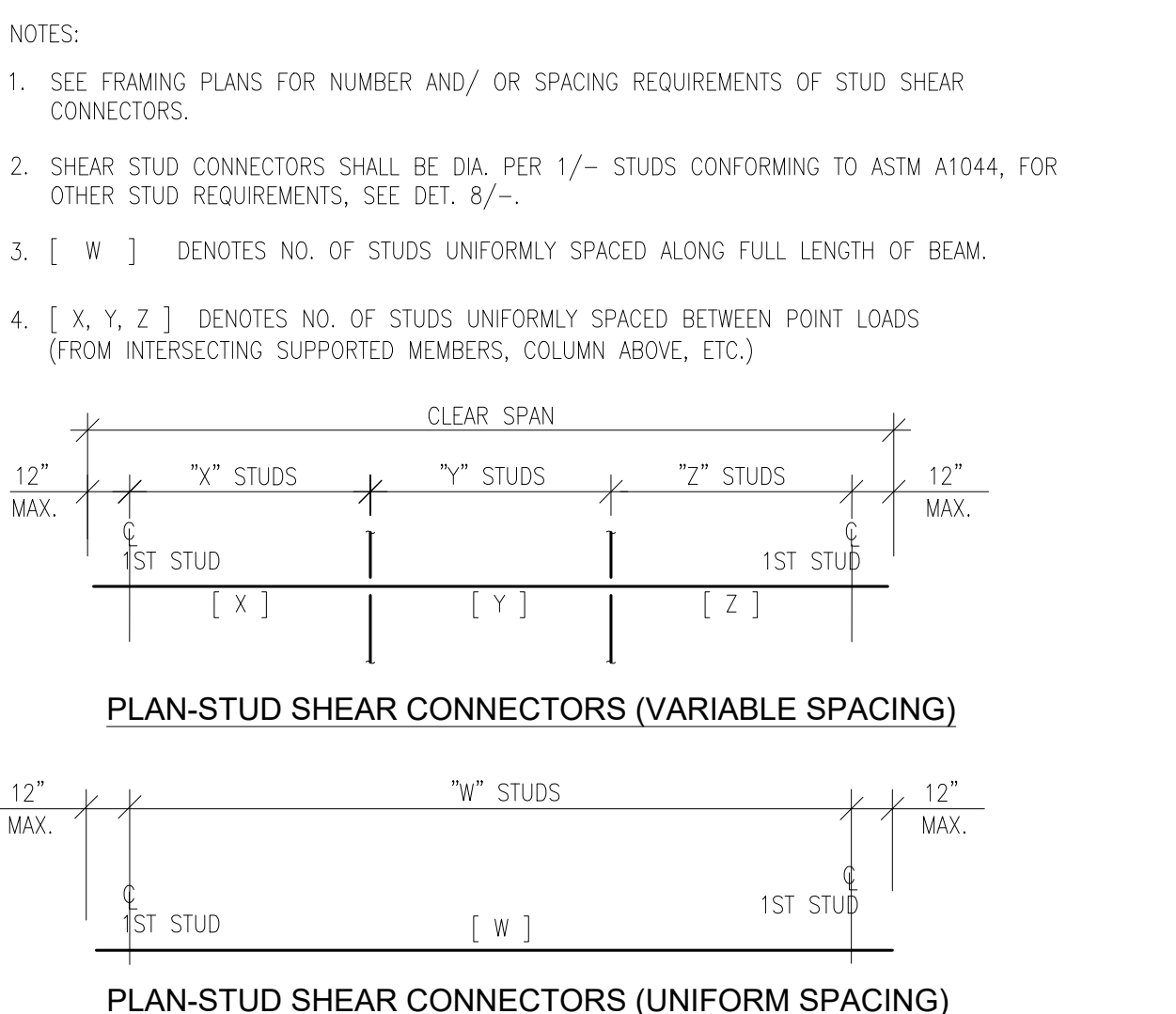


OPENINGS IN STEEL DECK GREATER THAN 2'-0" 11
NO SCALE

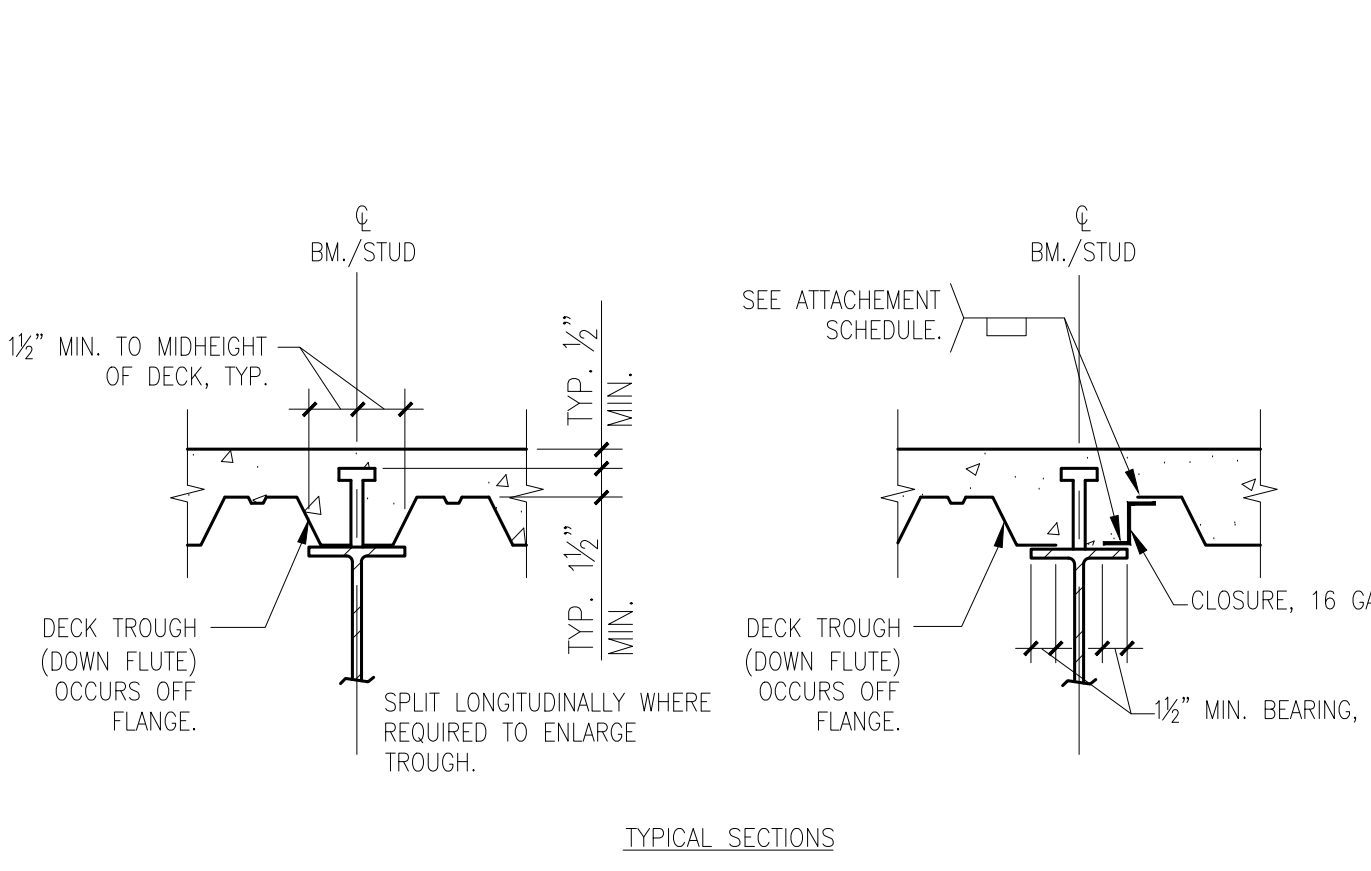


NOTE:
1. AT CONTRACTOR'S OPTION: WELD ANGLES BELOW STEEL DECK
2. WELD ANGLES TO A MIN. OF TWO FULL DECK FLUTES, EA. END OF EA. ANGLE
3. NO DECK REINF. REQ'D FOR OP'GS LESS THAN 5" WIDE NOT CUTTING MORE THAN (1) FLUTE
4. THIS DETAIL SHALL NOT APPLY FOR MULT. OP'GS SPACED LESS THAN 6'-0" APART, U.O.N. BY E.O.R.

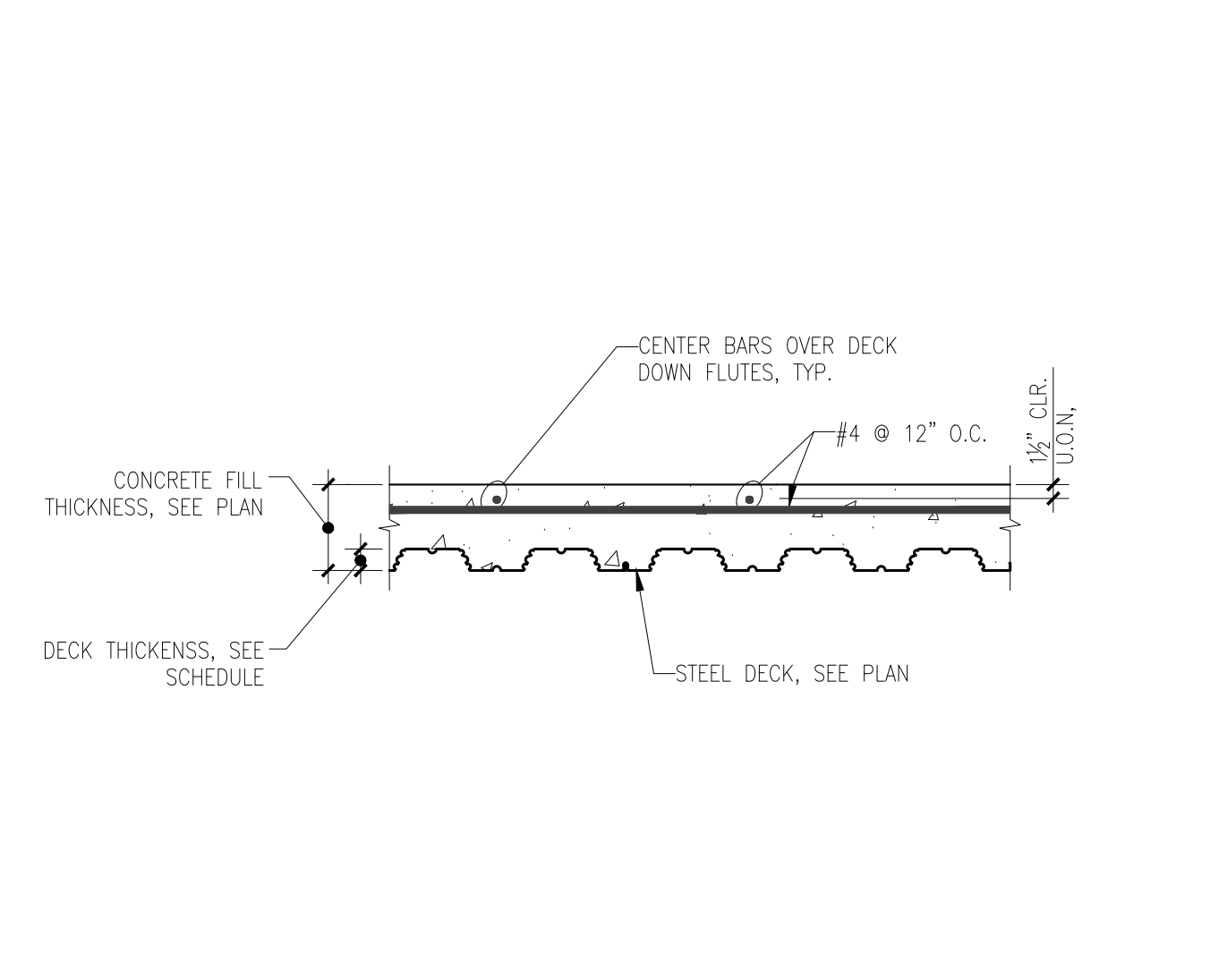
TYP. OPENINGS IN STEEL DECK LESS THAN 2'-0" 10
NO SCALE



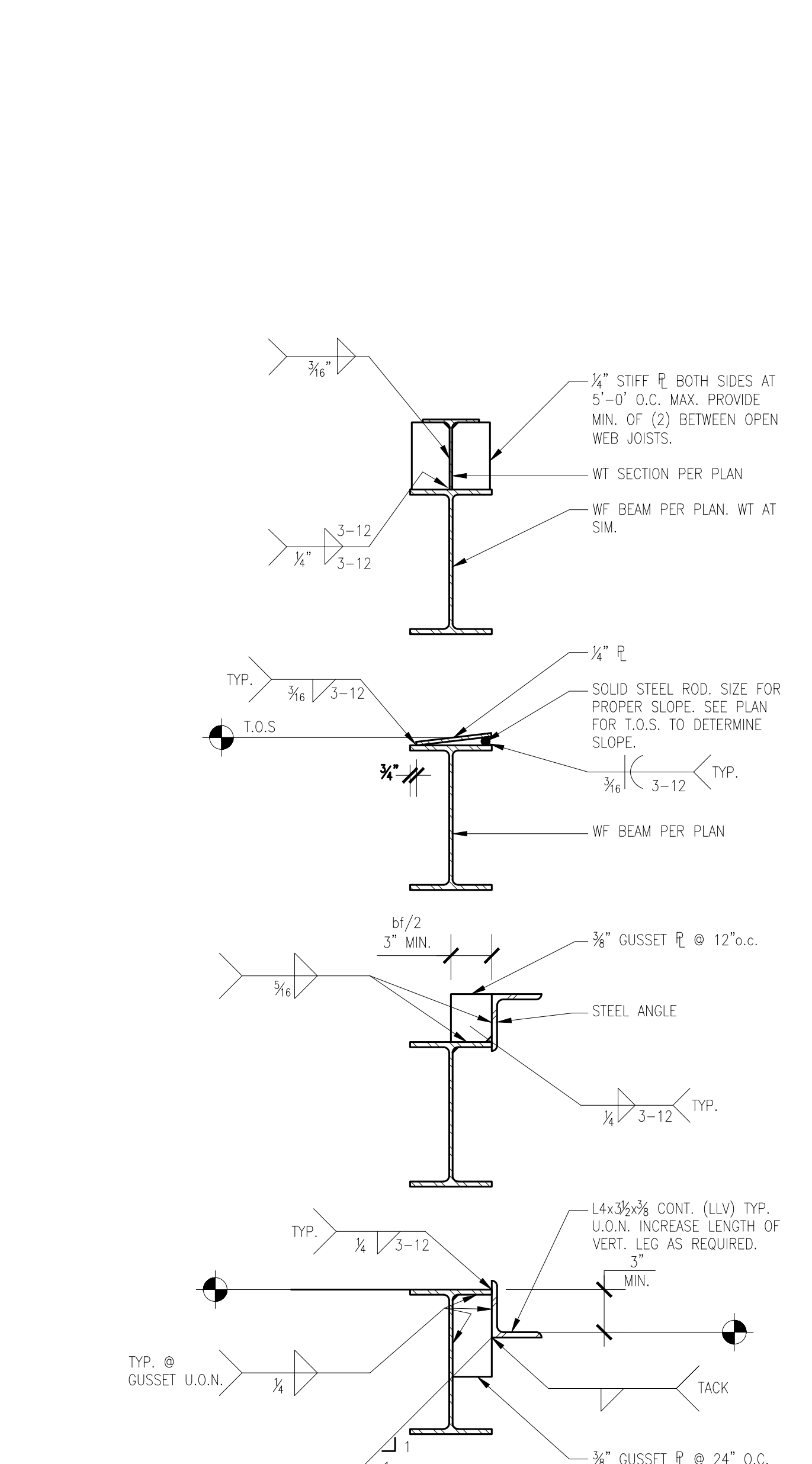
TYP. SHEAR STUD PLACEMENT 9
1" = 1'-0"



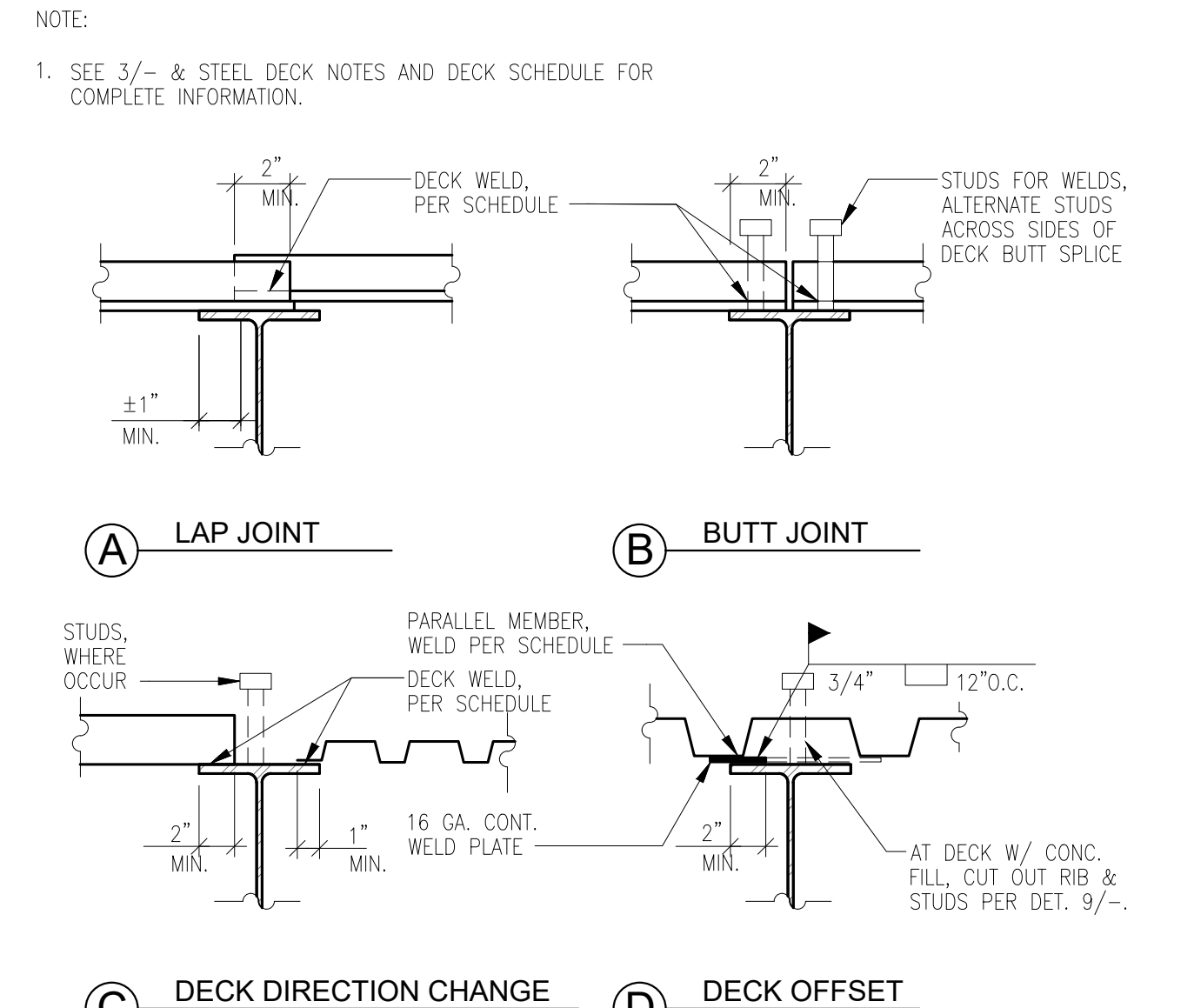
TYPICAL SHEAR STUD CONNECTOR 8
1" = 1'-0"



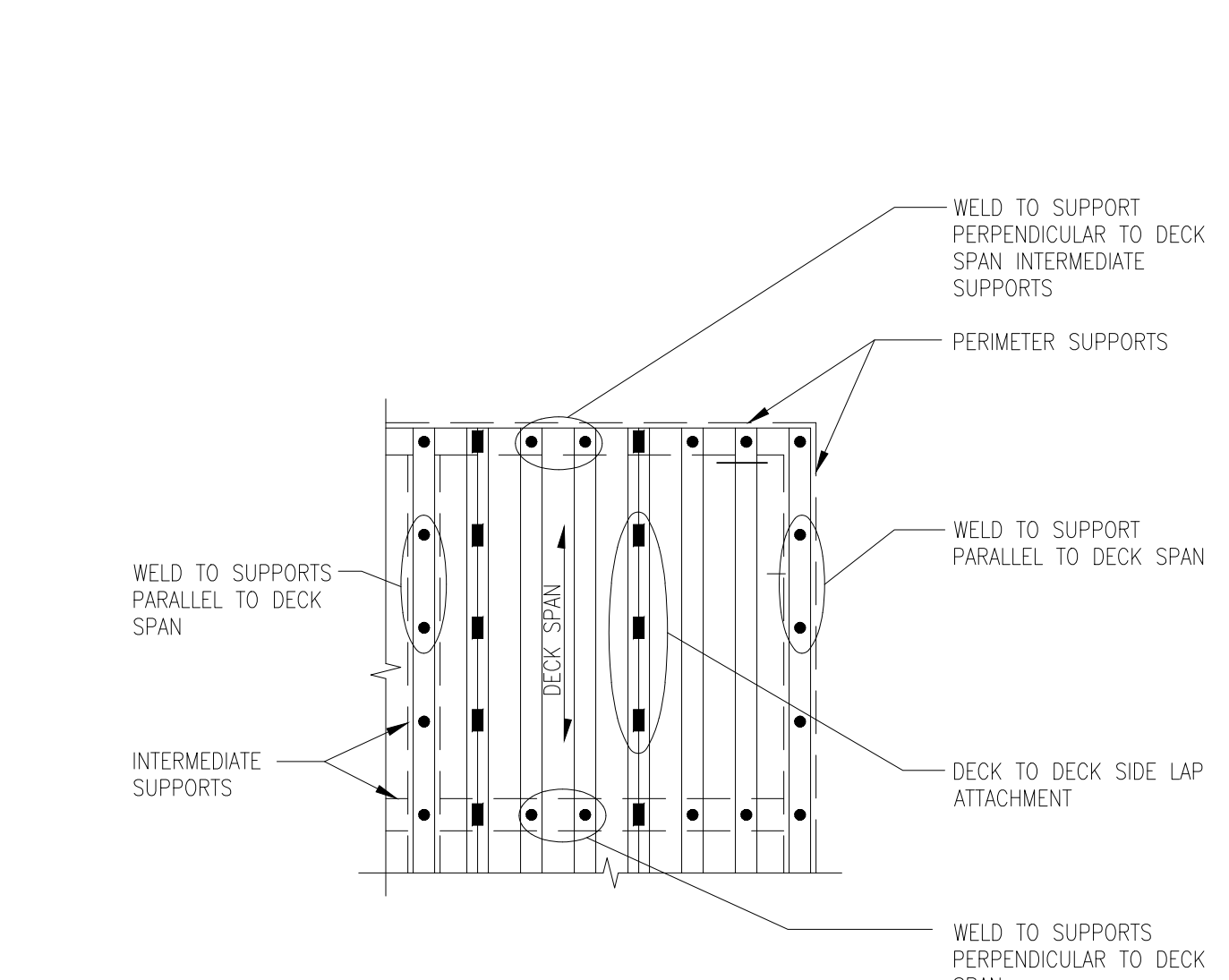
TYPICAL REBAR PLACEMENT 7
1" = 1'-0"



TYPICAL STEEL DECK ATTACHMENT LOCATIONS 3
N.T.S.



TYPICAL STEEL DECK ATTACHMENT LOCATIONS 3
N.T.S.



TYPICAL STEEL DECK ATTACHMENT LOCATIONS 3
N.T.S.

ATTACHMENT PATTERN			
DECK TYPE	SUPPORT PERPENDICULAR TO DECK RIBS	SUPPORT PARALLEL TO DECK RIBS	DECK TO DECK SIDE LAPS
A	FASTEN AT ALL DOWN FLUTES	FASTEN @ 12" O.C.	VERCO PUNCHLOK @ 12" O.C.
B	FASTEN AT ALL DOWN FLUTES	FASTEN @ 12" O.C.	VERCO PUNCHLOK @ 12" O.C.
C	FASTEN AT ALL DOWN FLUTES	FASTEN @ 12" O.C.	VERCO PUNCHLOK @ 12" O.C.

NOTE:
1. FASTEN DECK TO SUPPORTS WITH EITHER 3/8" PUDDLE WELD OR PNEUMATIC FASTENERS AS FOLLOWS:
A. K64 FASTENERS AT STEEL SUPPORTS WITH 0.187-0.312 INCHES IN THICKNESS
B. K66 FASTENER AT STEEL SUPPORTS WITH 0.281 INCHES AND THICKER
2. AT CONCRETE OVER STEEL DECK FASTEN DECK TO SUPPORTS WITH 3/4" STUDS AND CONC. FILL.
3. SEE 3/- FOR DECK ATTACHMENT LOCATIONS.

TYPE	GAUGE	DEPTH (MIN)	PROFILE	REMARKS
A	18	1 1/2"	0.306	VERCO PLB 36 OR APPROVED EQUIVALENT
B	18	3"	1.213	VERCO PLW3 OR APPROVED EQUIVALENT

TYPICAL STEEL DECK & STUD NOTES 1
NO SCALE

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Sheet Title
TYPICAL STEEL DETAILS


Sheet Number

S5.12

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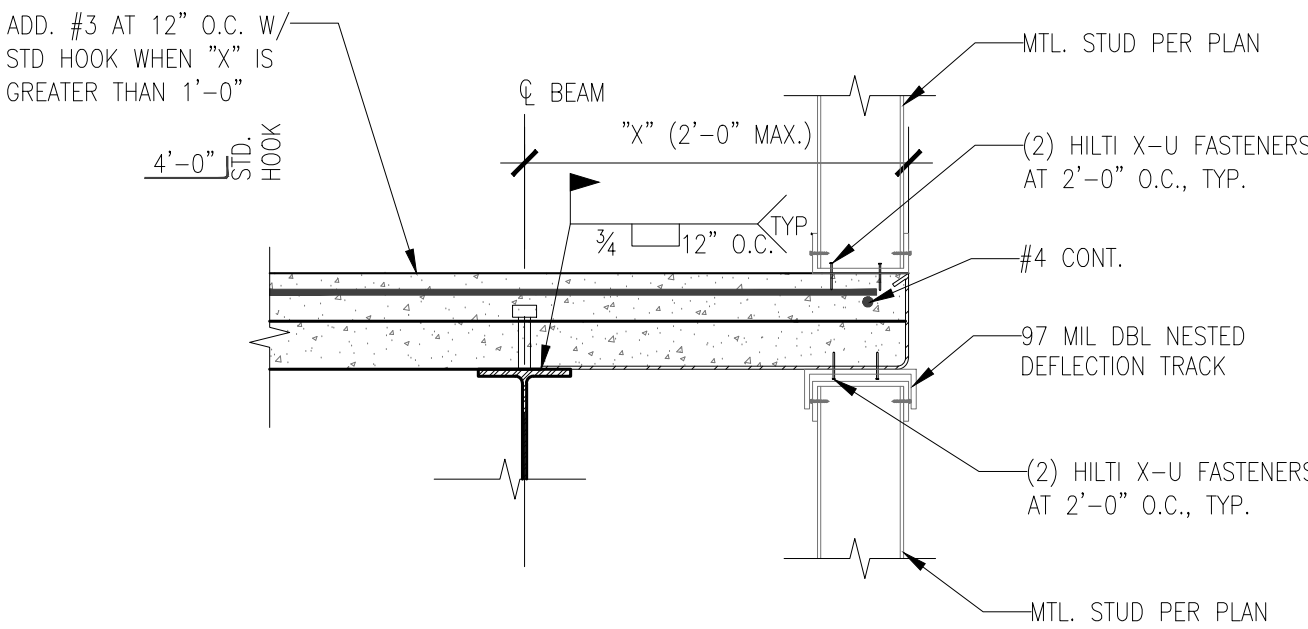
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TYPICAL STEEL
DETAILS

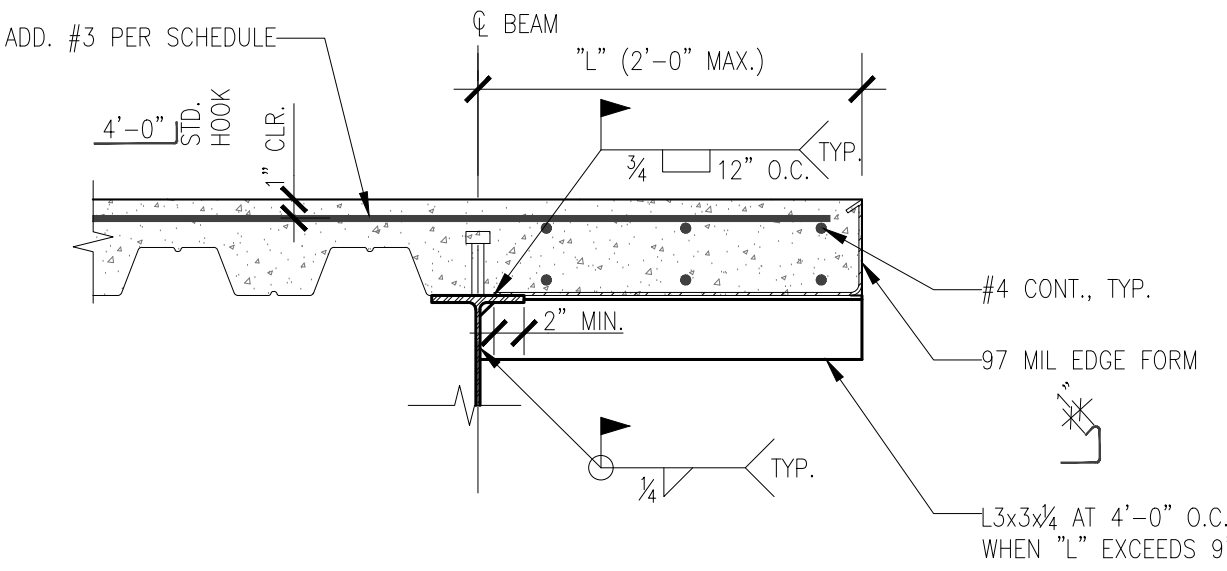
Sheet Number

S5.13

NOTE: FOR INFO. NOT
SHOWN OR NOTED SEE 1/-



TYP. EDGE OF DECK
PERPENDICULAR TO WF



ℓ^*	ADD. #3 REINF. SPACING
$\leq 6"$	NOT REQ'D
$6" \leq 12"$	18"
$12" \leq 24"$	12"

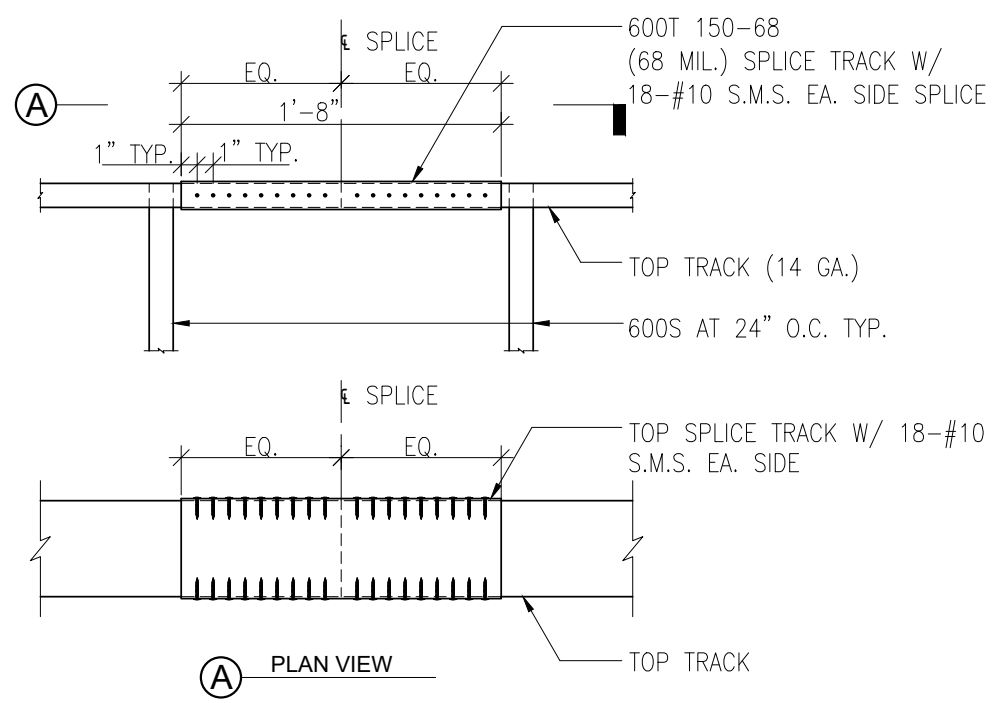
TYP. EDGE OF DECK
PARALLEL TO WF

N.T.S.

DATE: 6/01/20

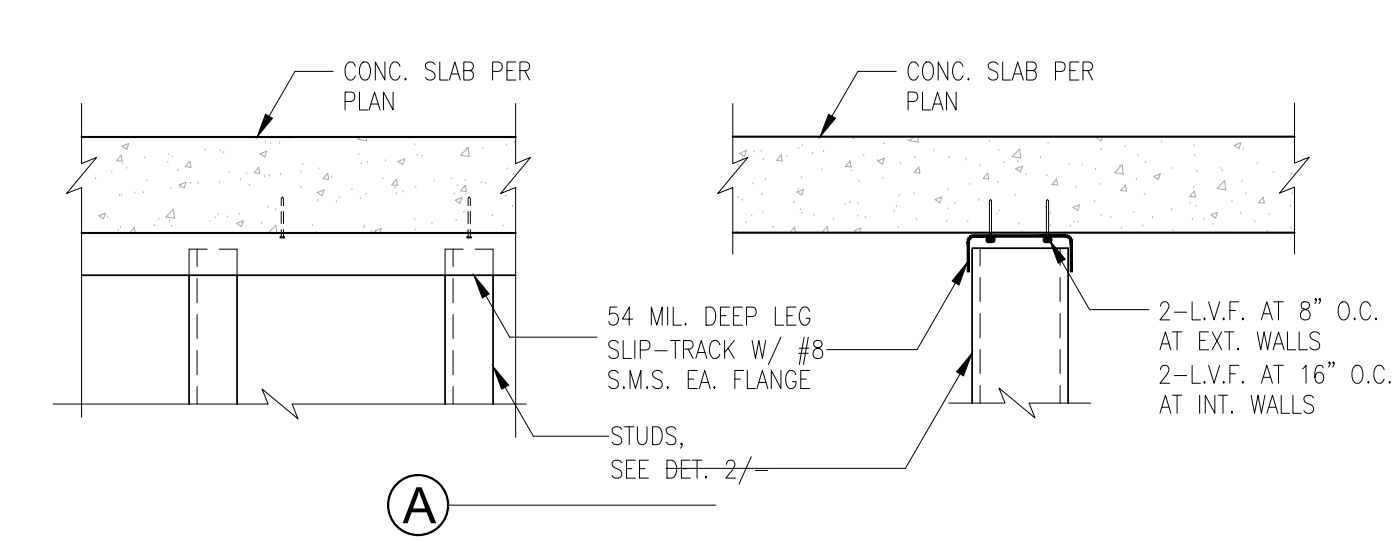
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- NOTES:
1. DO NOT ATTACH WALL SHEATHING TO SLIP TRACK.
 2. PROVIDE BRIDGING WITHIN 12" OF TRACK.
 3. SLIP TRACK TO HAVE 2" DEEP LEG, TYP.



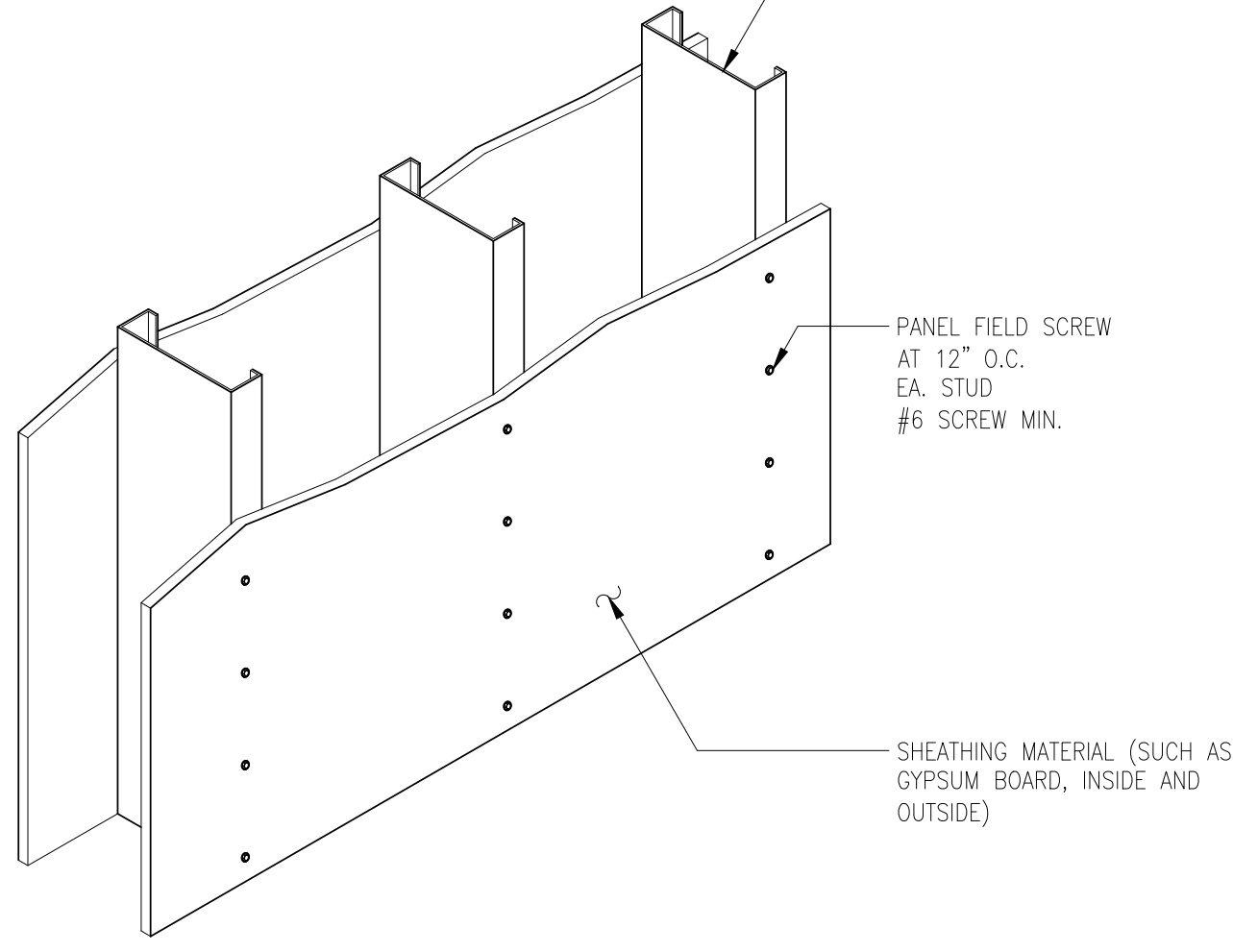
**TYPICAL TOP TRACK
SPLICE DETAIL**

N.T.S. 20



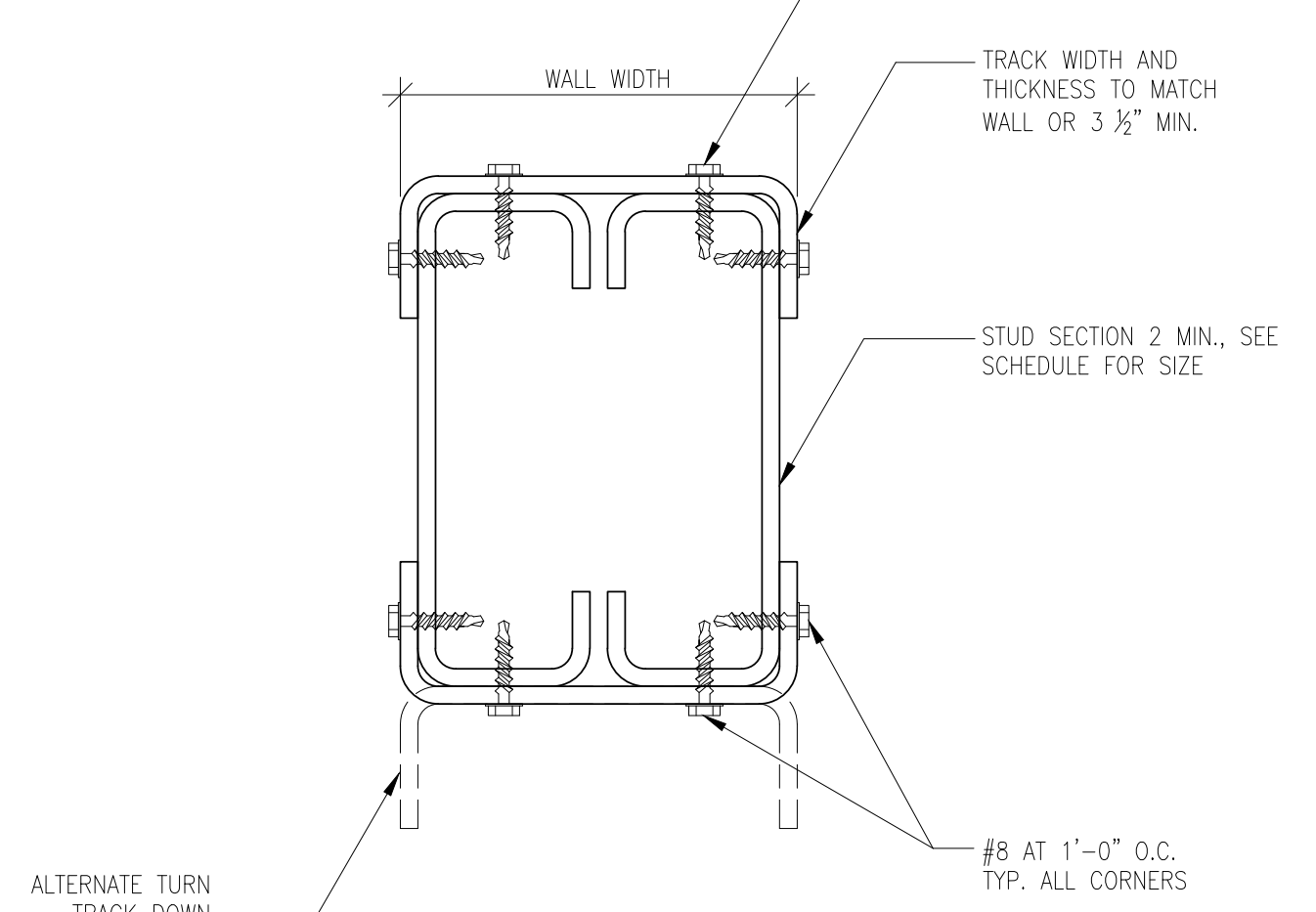
**TYPICAL NON BEARING WALL
TOP CONNECTION**

N.T.S. 16



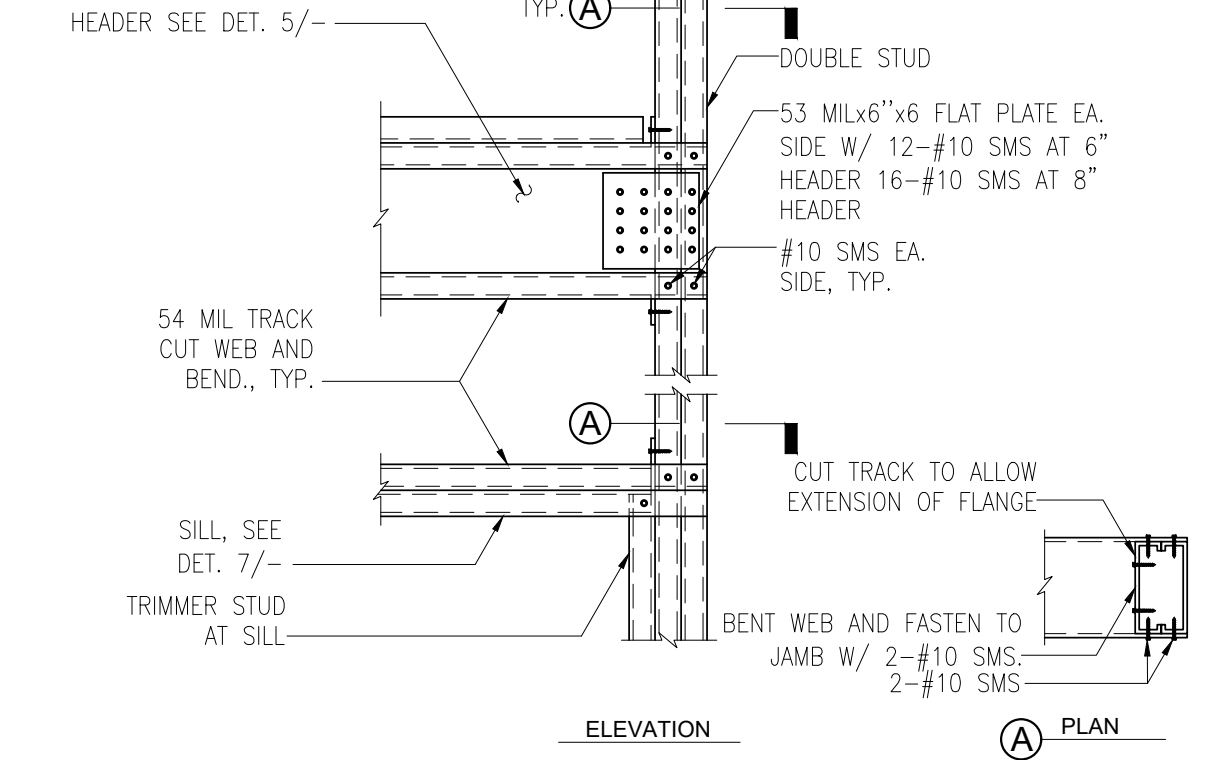
**TYPICAL STUD BRACING
WITH SHEATHING**

N.T.S. 12



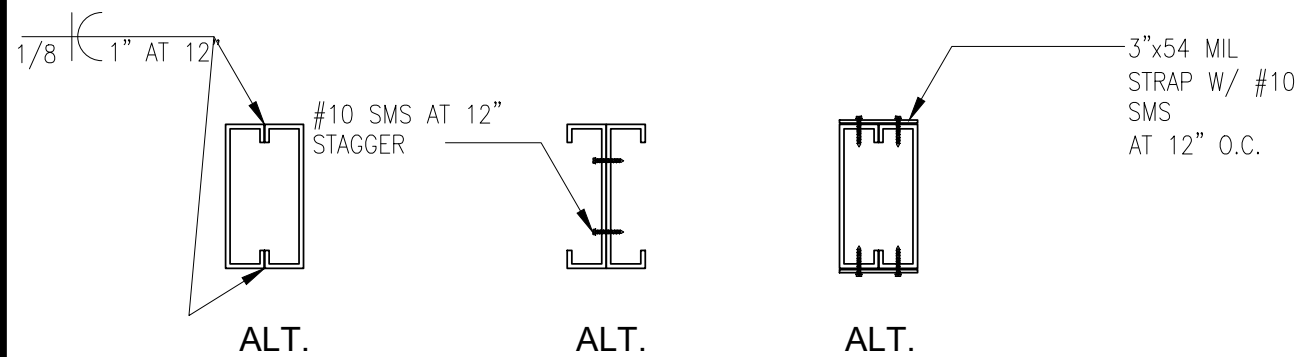
**TYPICAL BUILT-UP POST,
BOX BEAM OR HEADER**

N.T.S. 8



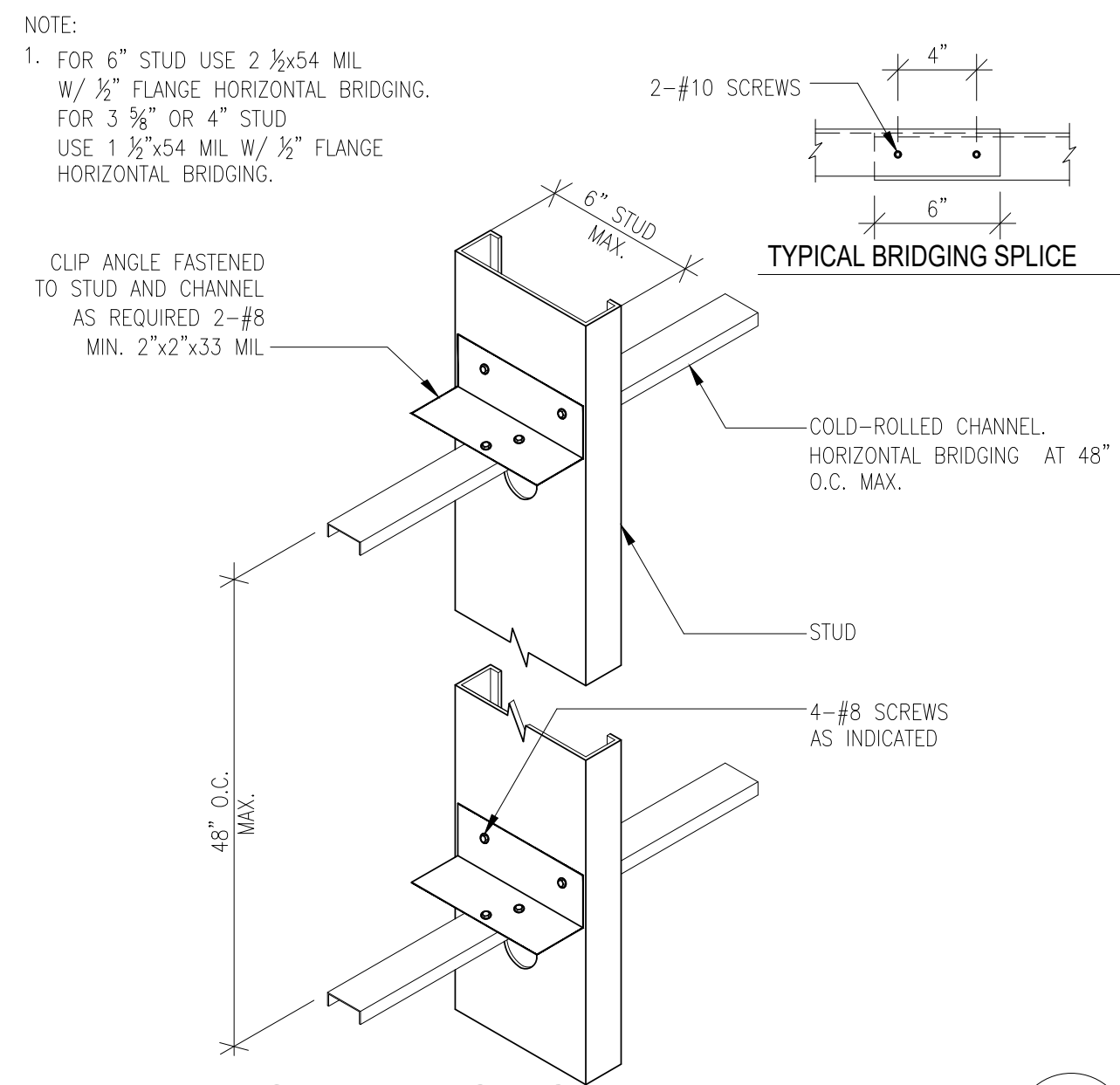
**TYPICAL HEAD AND SILL DETAILS
AT JAMB NON BEARING WALL**

N.T.S. 4



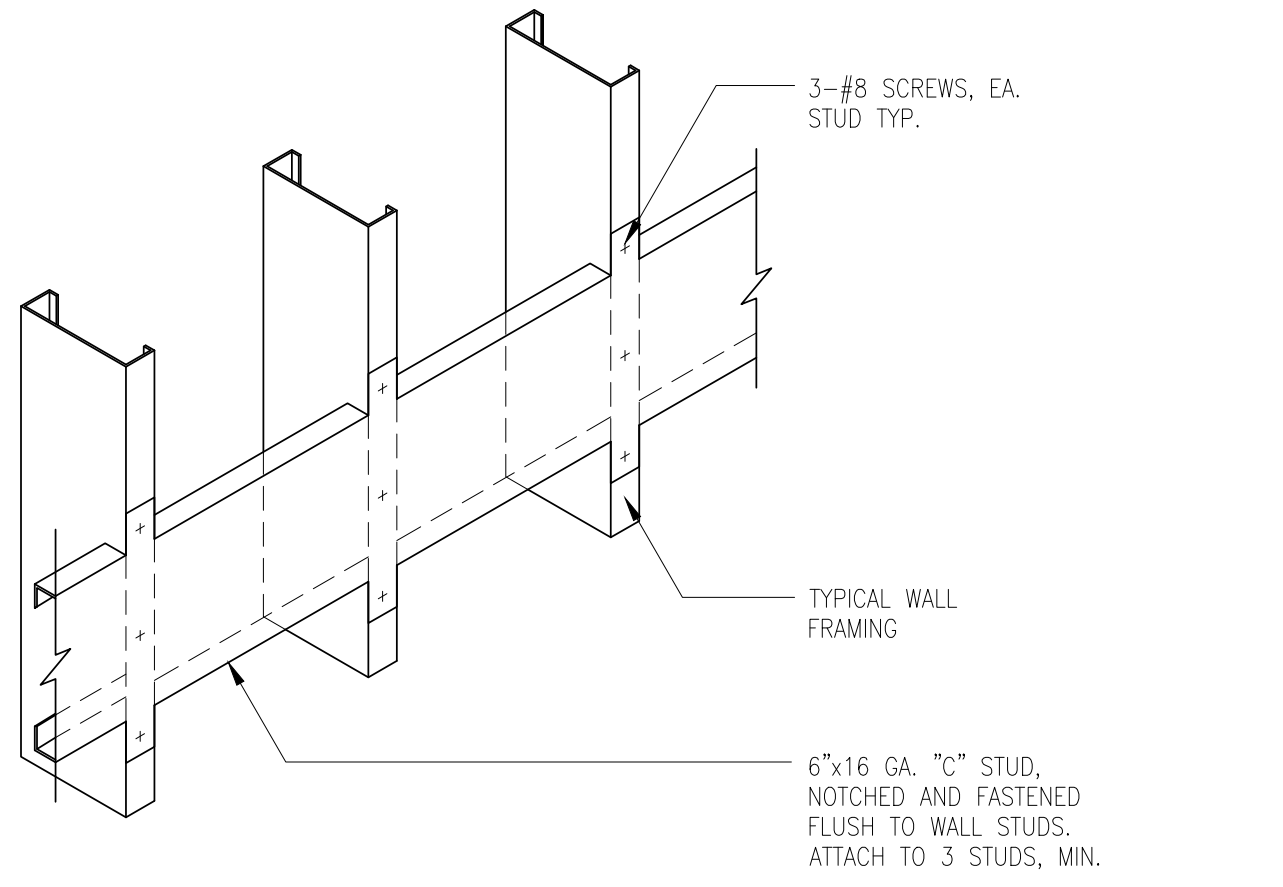
**TYPICAL DOUBLE STUD JAMB
BASE SIMILAR AT TOP**

N.T.S. 19



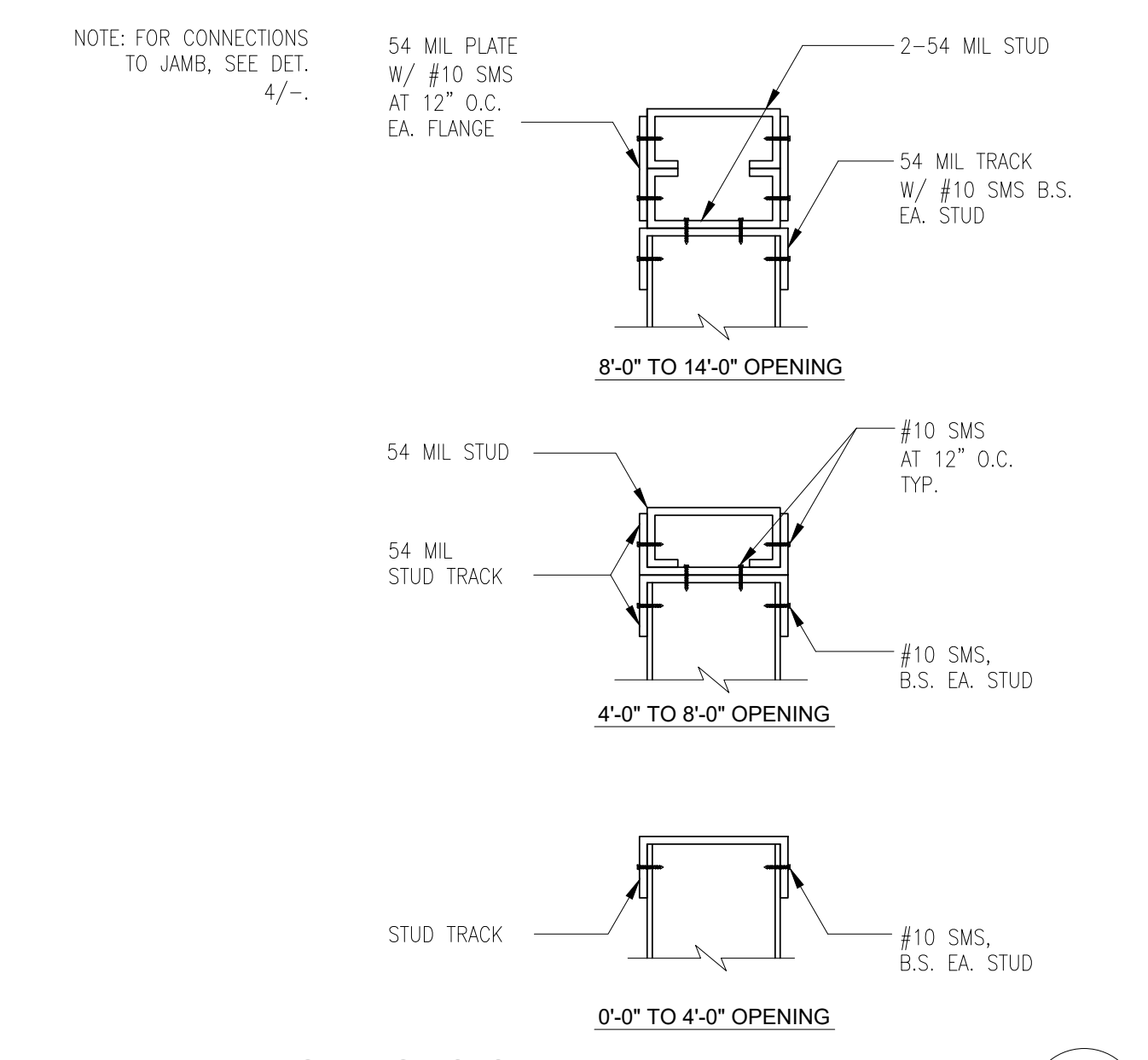
TYPICAL BRIDGING

N.T.S. 15



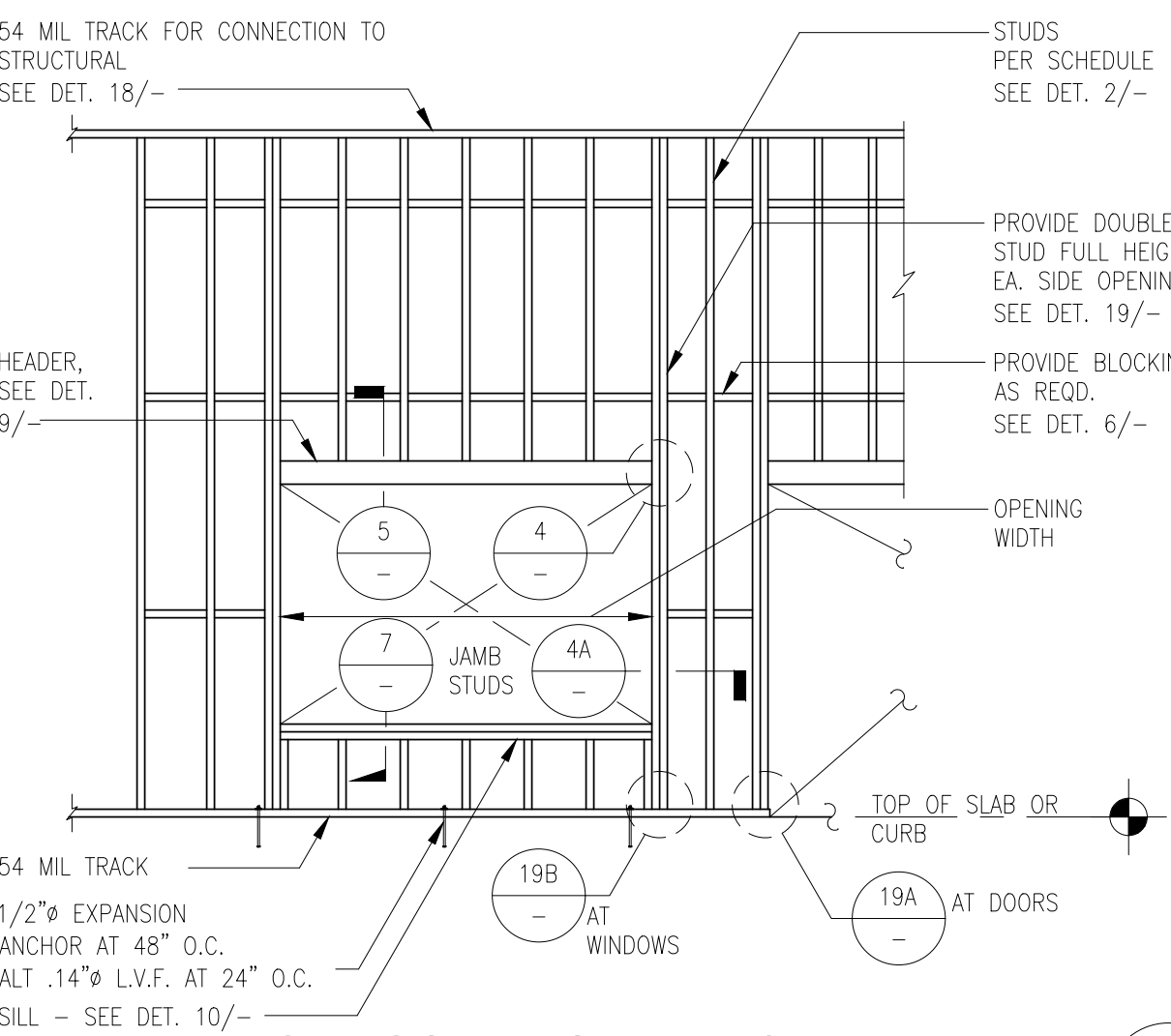
TYPICAL BACKING DETAIL

N.T.S. 11



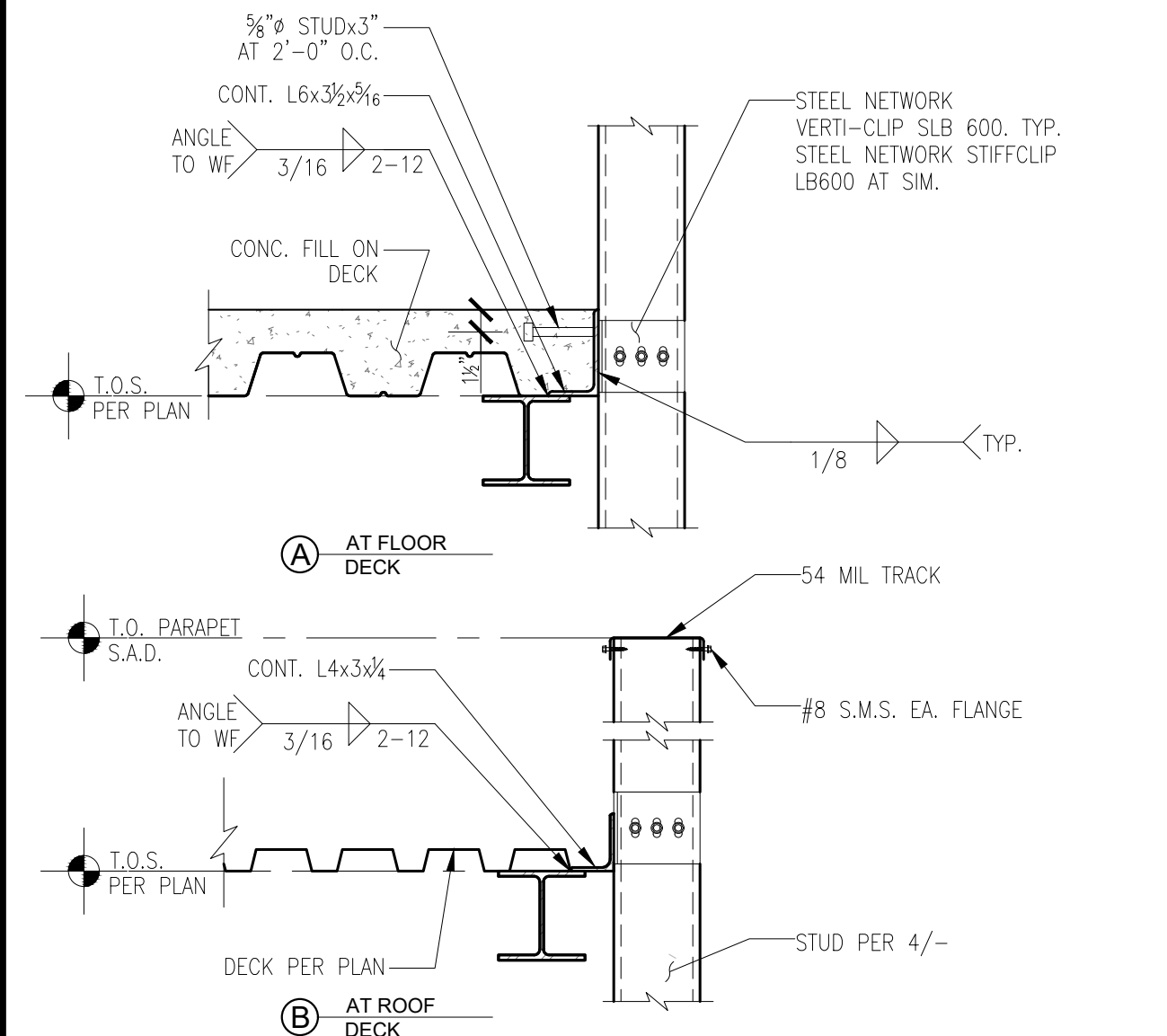
TYPICAL CFS SILL

N.T.S. 7



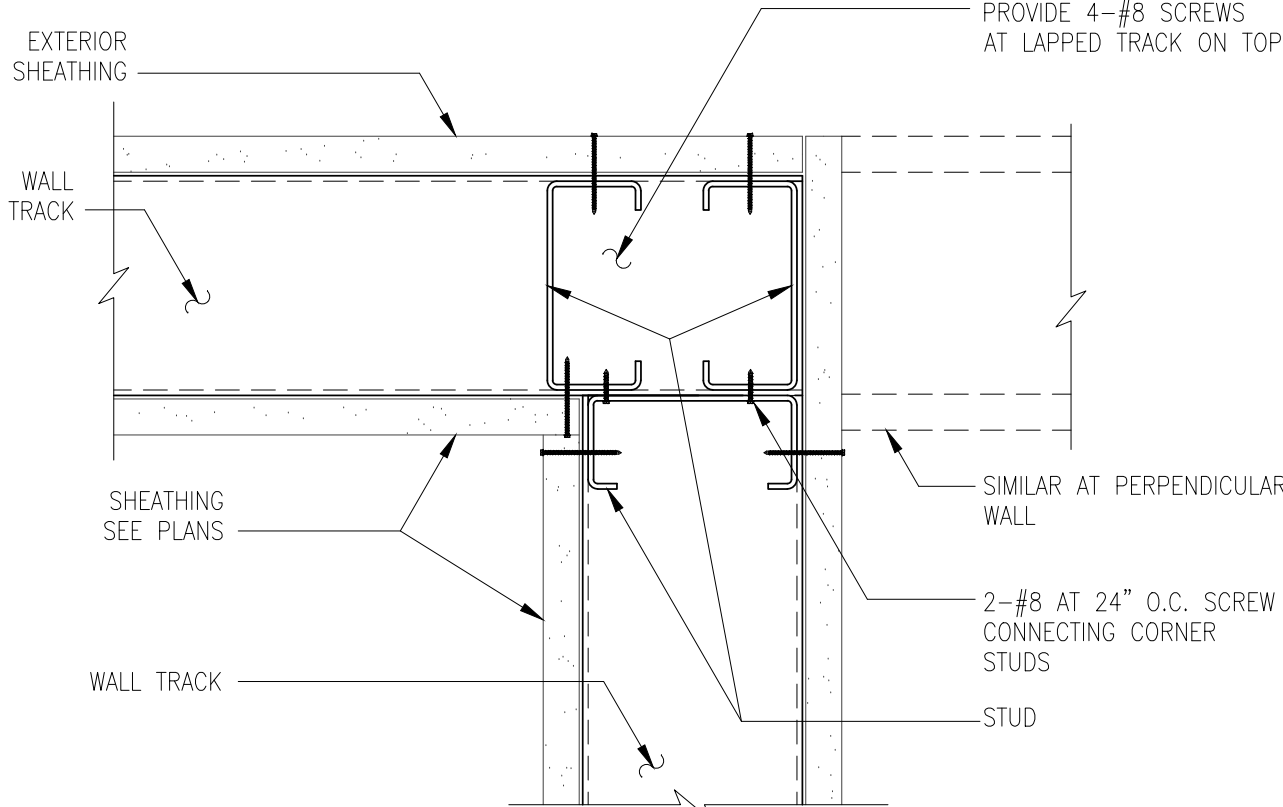
**TYPICAL COLD-FORMED STL.
FRAMING - NON BEARING**

N.T.S. 3



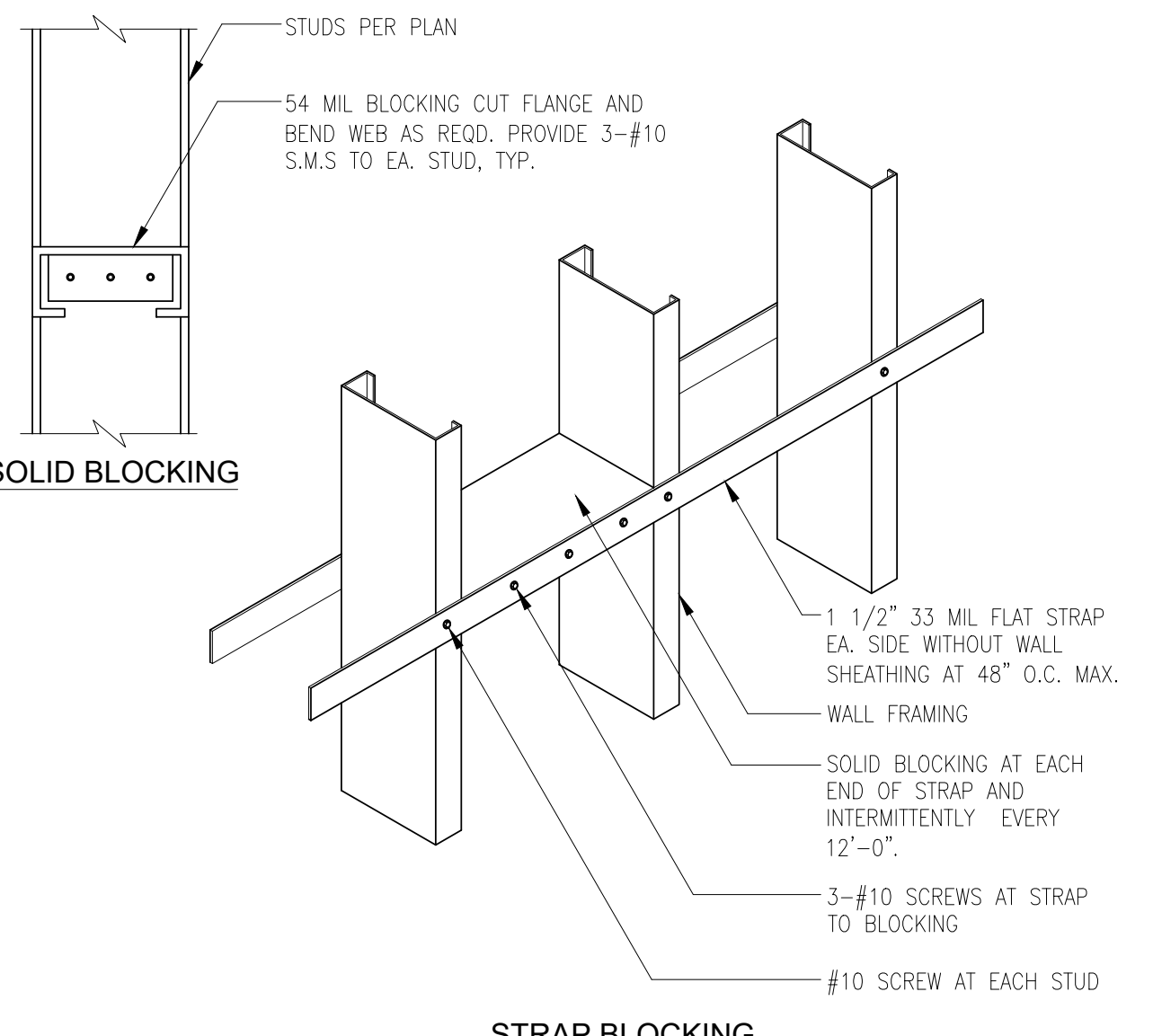
**TYPICAL FLOOR BYPASS CONNECTION
SPLICE DETAIL**

N.T.S. 18



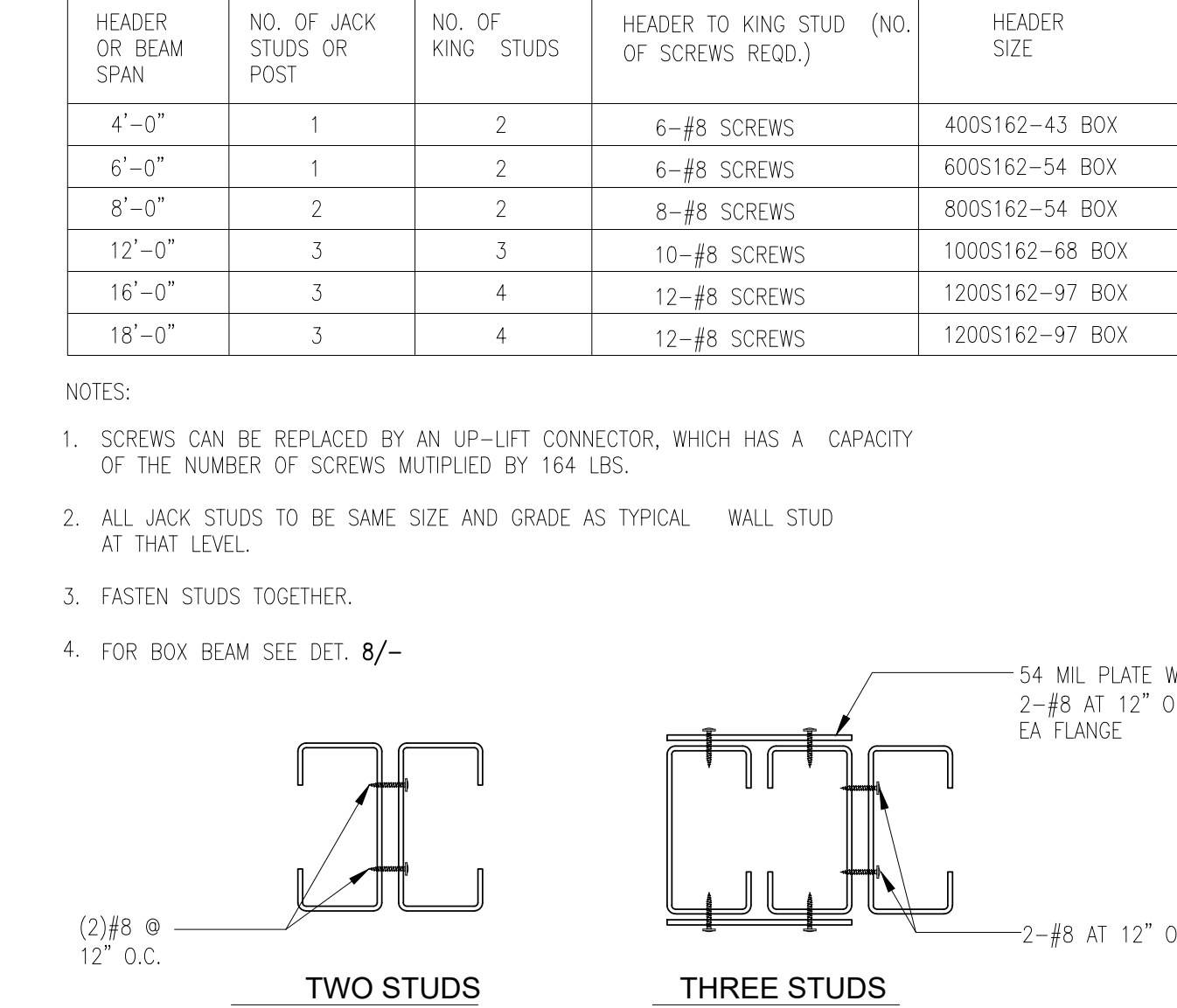
TYPICAL CORNER FRAMING

N.T.S. 14



TYPICAL STUD BLOCKING

N.T.S. 10



**POST AND HEADER SCHEDULE
BEARING**

N.T.S. 6

JOISTS		HEADERS	
JOIST A	1000S162-54	HDR A	1000S-54 BOX ¹
JOIST B	800S162-54	HDR B	800S-54 BOX ¹
JOIST C	1200S162-54	HDR C	1200S-68 BOX

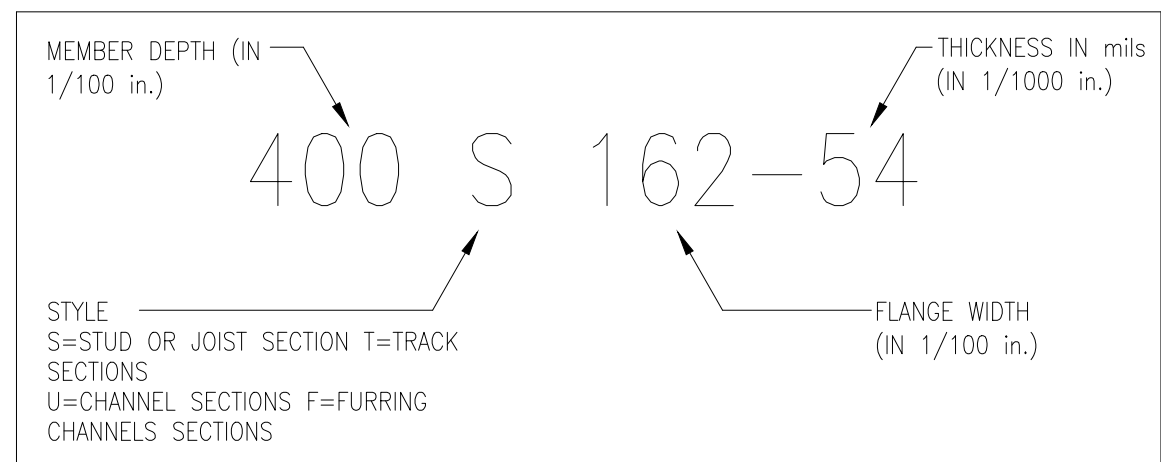
1. SEE DET. 6&8/-

EXTERIOR WALL STUD: NON-BEARING		
WALL HEIGHT	STUD SECTION	SPACING
≤ 16'	600S162-43	16" O.C.
16'-20'	800S162-43	16" O.C.
20'-24'	800S200-54	16" O.C.

INTERIOR WALL STUD: NON-BEARING PARTITION		
WALL HEIGHT	STUD SECTION	SPACING
≤ 14'	350S162-33	16" O.C.
≤ 18'	400S162-43	16" O.C.
≤ 24'	600S162-43	16" O.C.

**COLD-FORMED STEEL
FRAMING SCHEDULES**

N.T.S. 2



MINIMUM DELIVERABLE THICKNESS (MILS)	GAUGE	DESIGN THICKNESS (INCHES)
18	25	.0188
27	22	.0283
33	20	.0346
43	18	.0451
54	16	.0566
68	14	.0713
97	12	.1017

**TYPICAL COLD-FORMED STL.
STUD DESIGNATIONS**

N.T.S. 1

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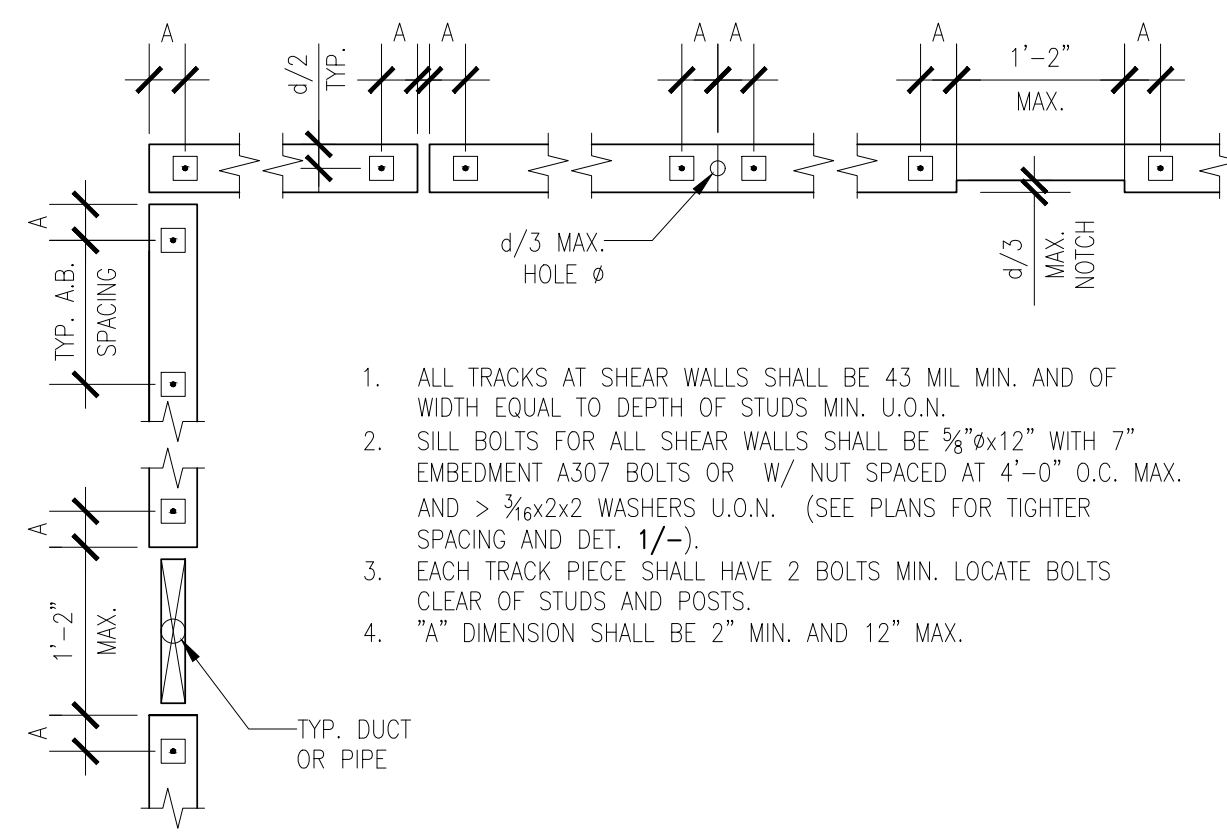
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COLD-FORMED STEEL
DETAILS

Sheet Number

S5.21

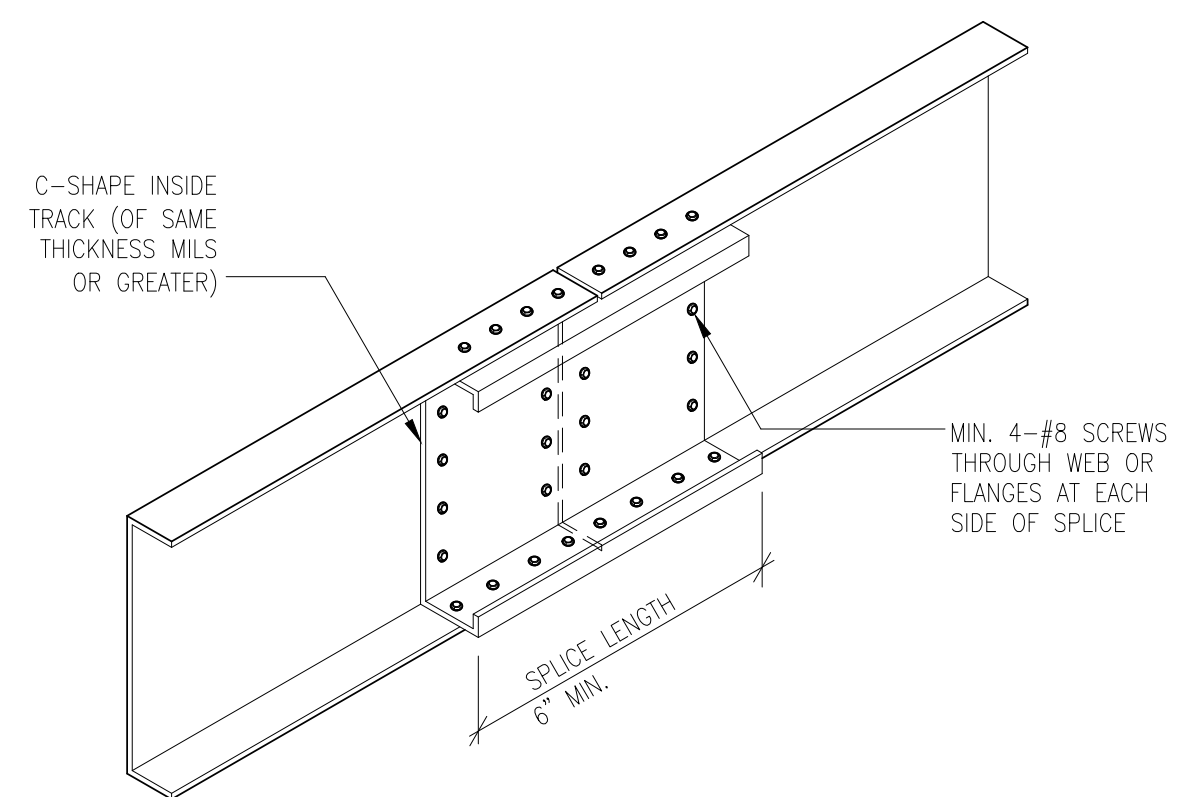
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ANCHOR BOLT AND BOTTOM
TRACK REQUIREMENTS

N.T.S.

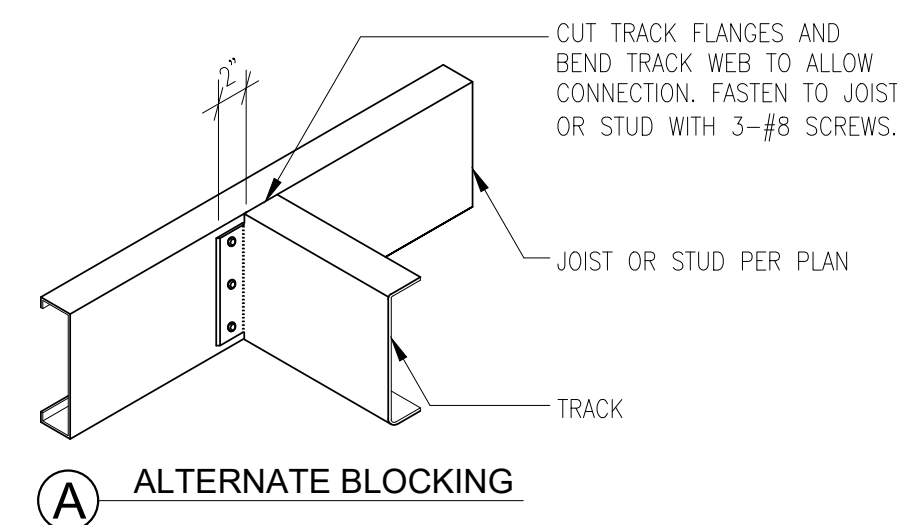
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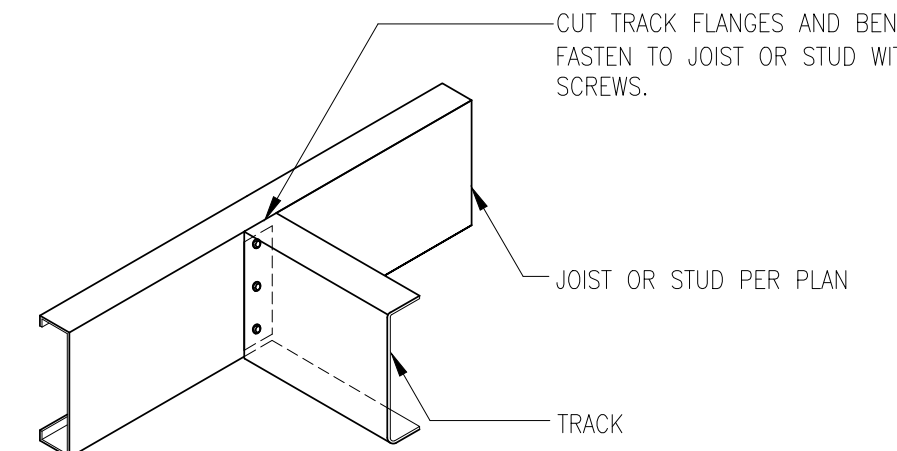
TYPICAL RIM TRACK
SPLICE CONNECTION

N.T.S.

8



ALTERNATE BLOCKING

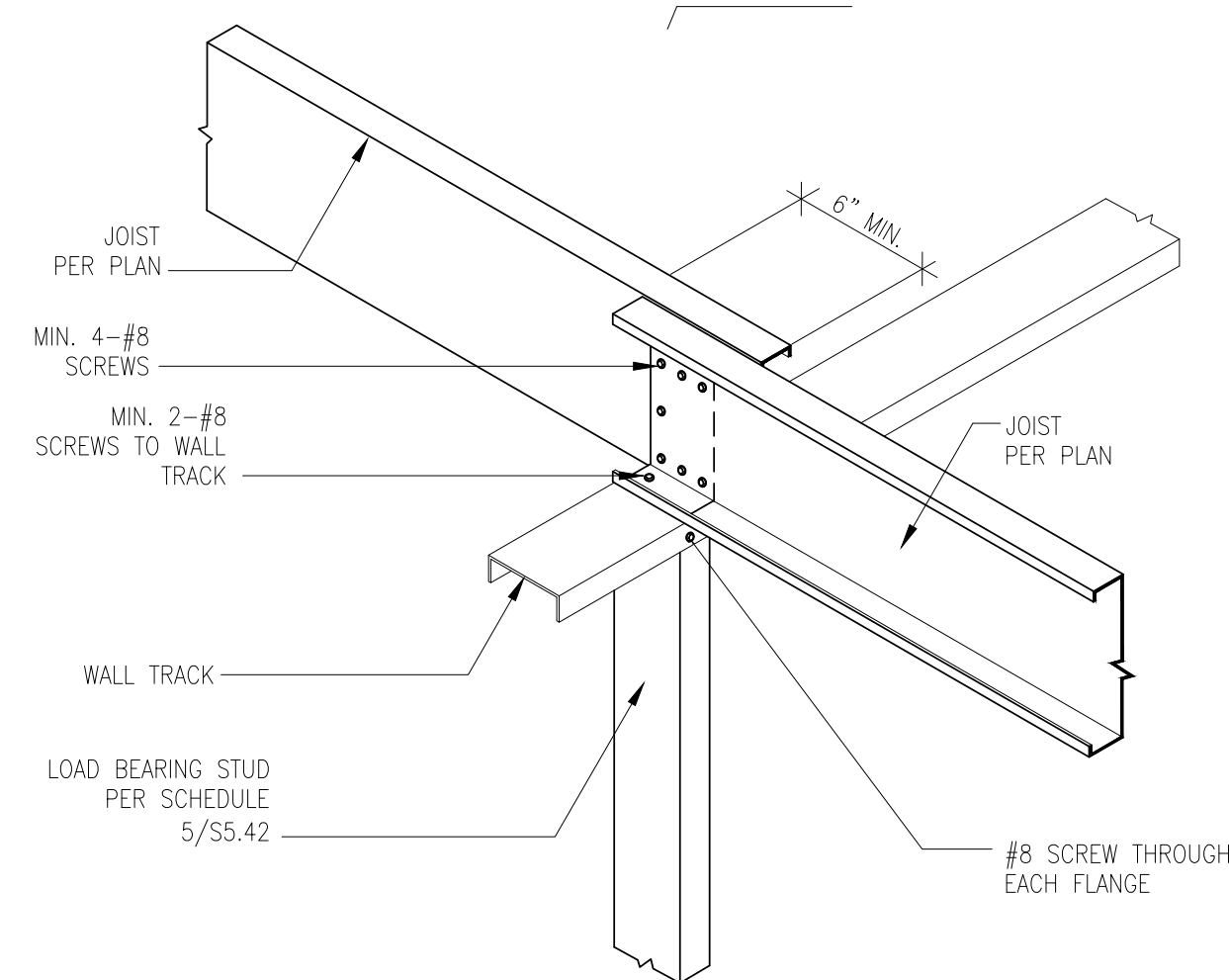


ALTERNATE BLOCKING

TYPICAL BLOCKING
CONNECTION

N.T.S.

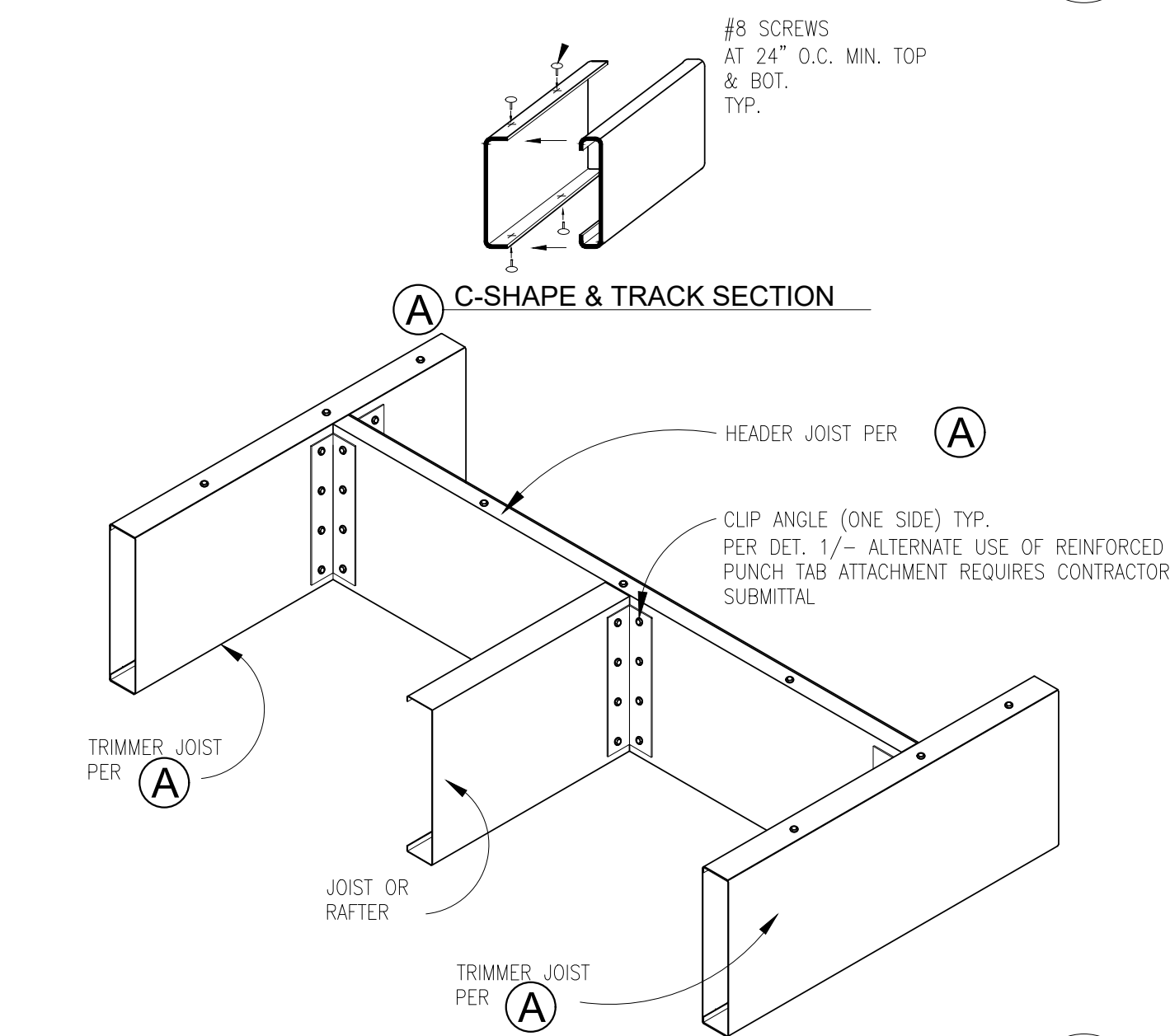
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TYPICAL LAPPED JOIST
DETAIL

N.T.S.

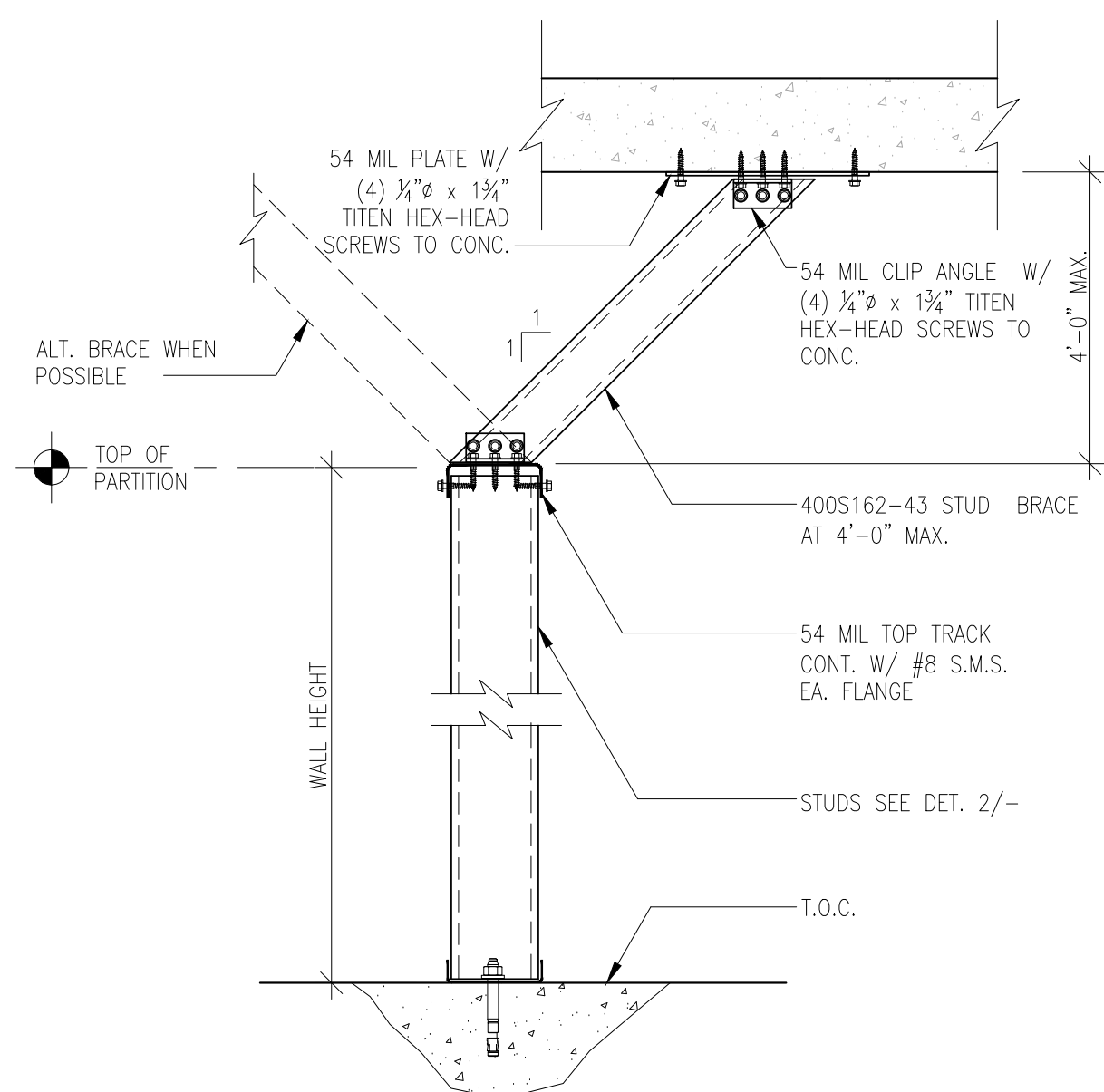
7



TYPICAL HEADING-OFF
JOISTS AT OPENING

N.T.S.

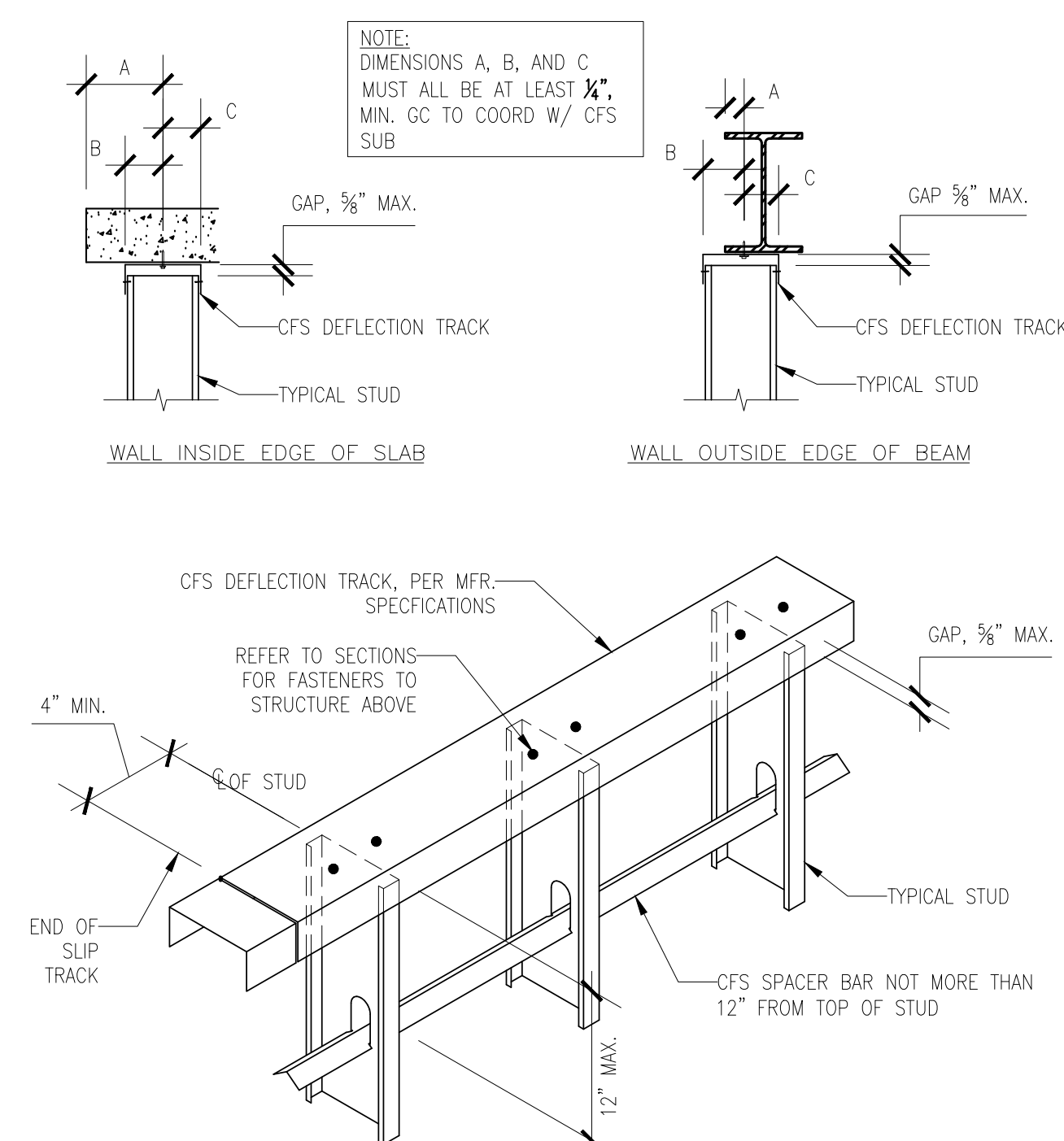
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TYPICAL PARTITION BRACE

N.T.S.

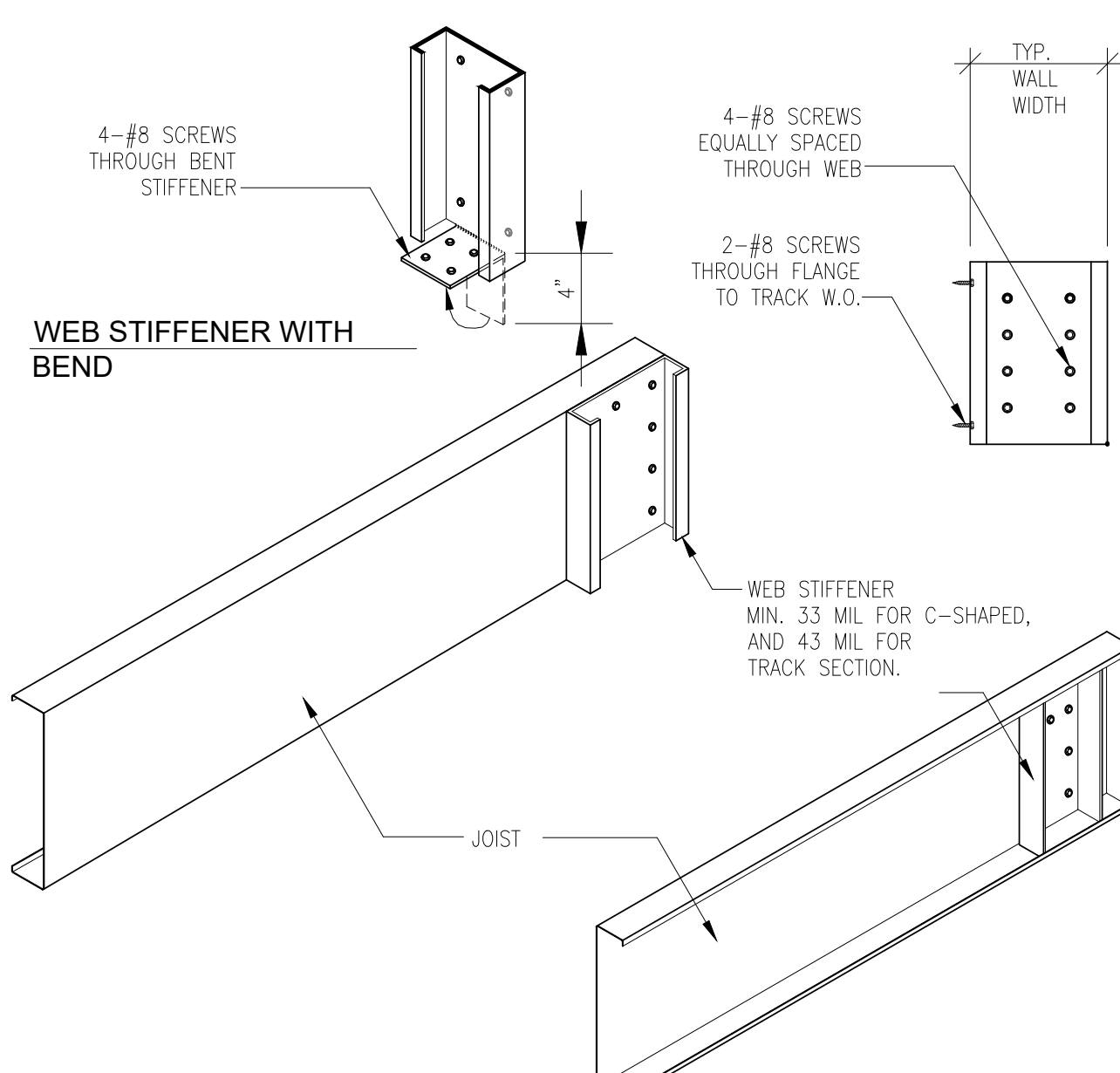
14



CFS DEFLECTION TRACK
WITH SPACER BAR

N.T.S.

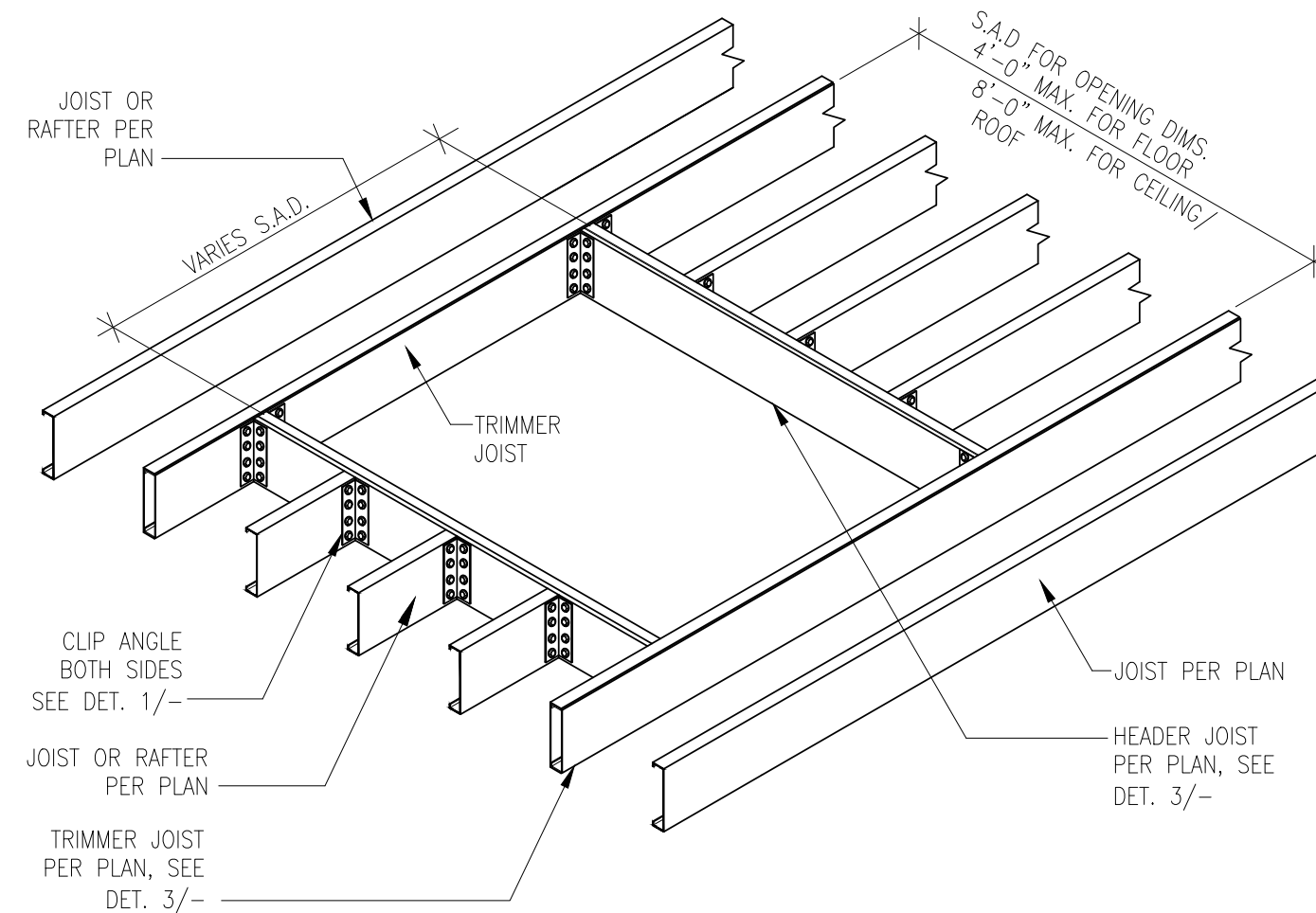
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TYPICAL WEB STIFFENER

N.T.S.

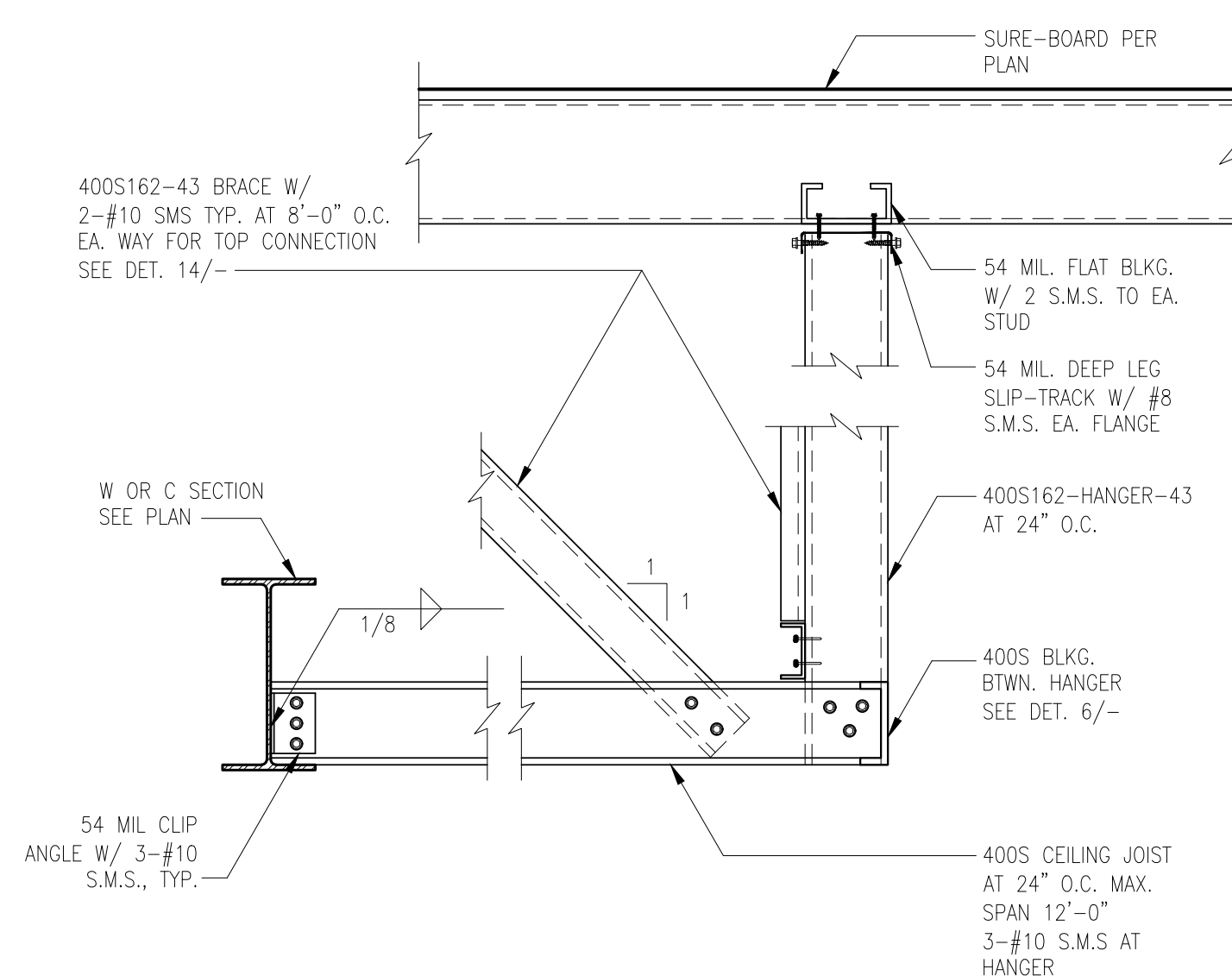
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TYPICAL OPENING IN FRAMING

N.T.S.

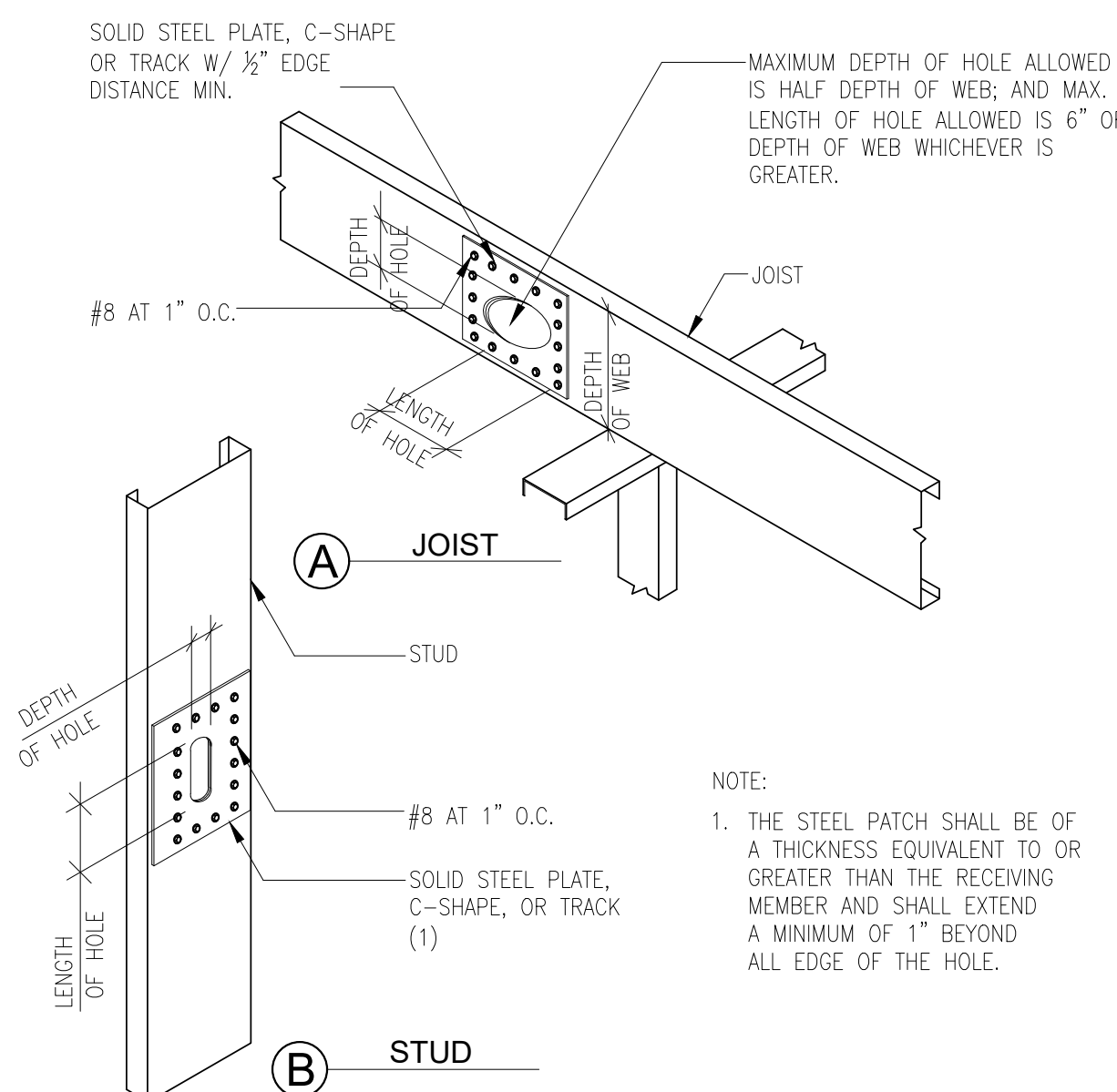
2



METAL STUD SOFFIT FRAMING
TYP. EXTERNAL BEARING WALL

N.T.S.

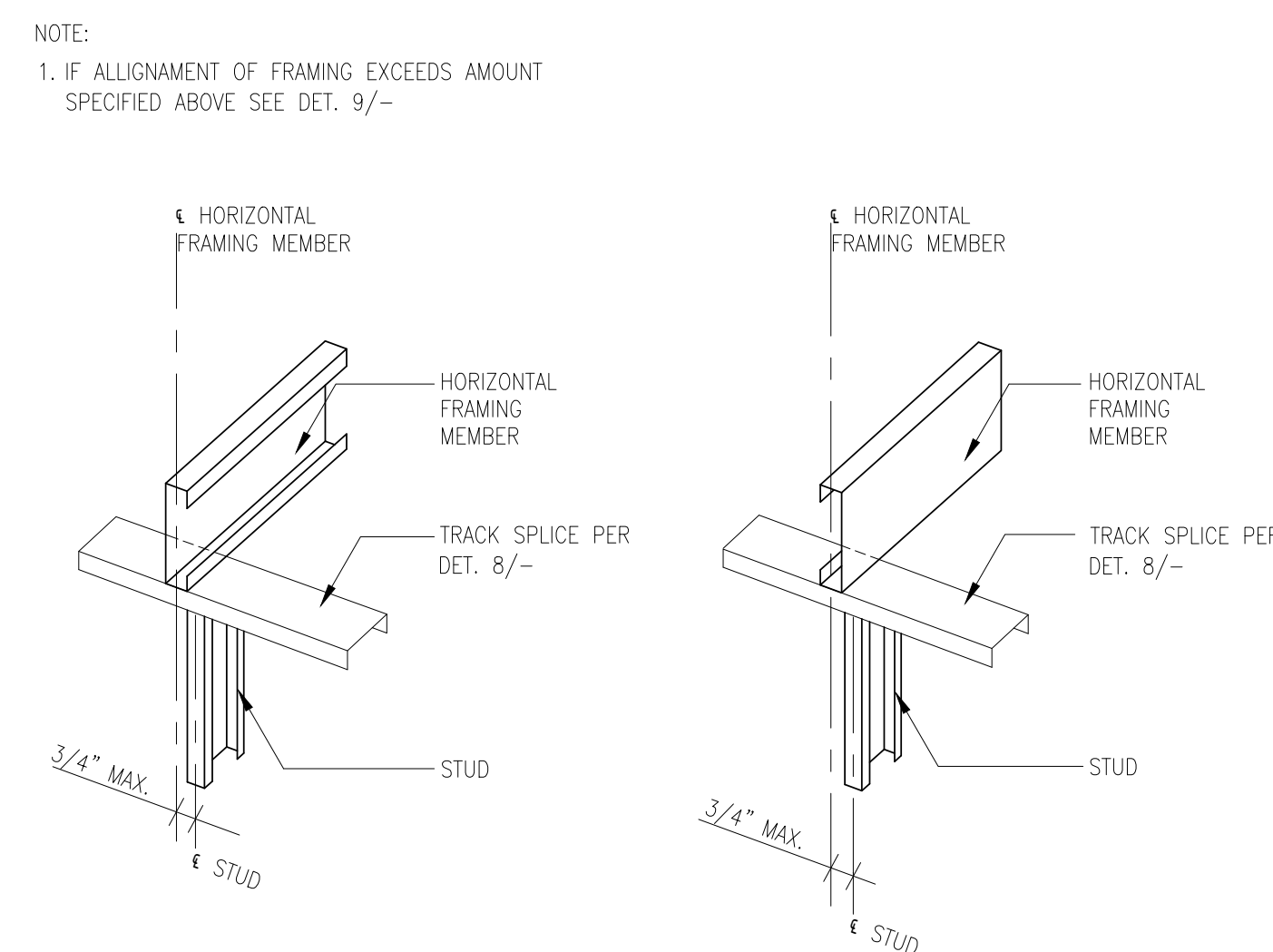
13



TYPICAL JOIST AND STUD WEB
HOLES REINFORCING

N.T.S.

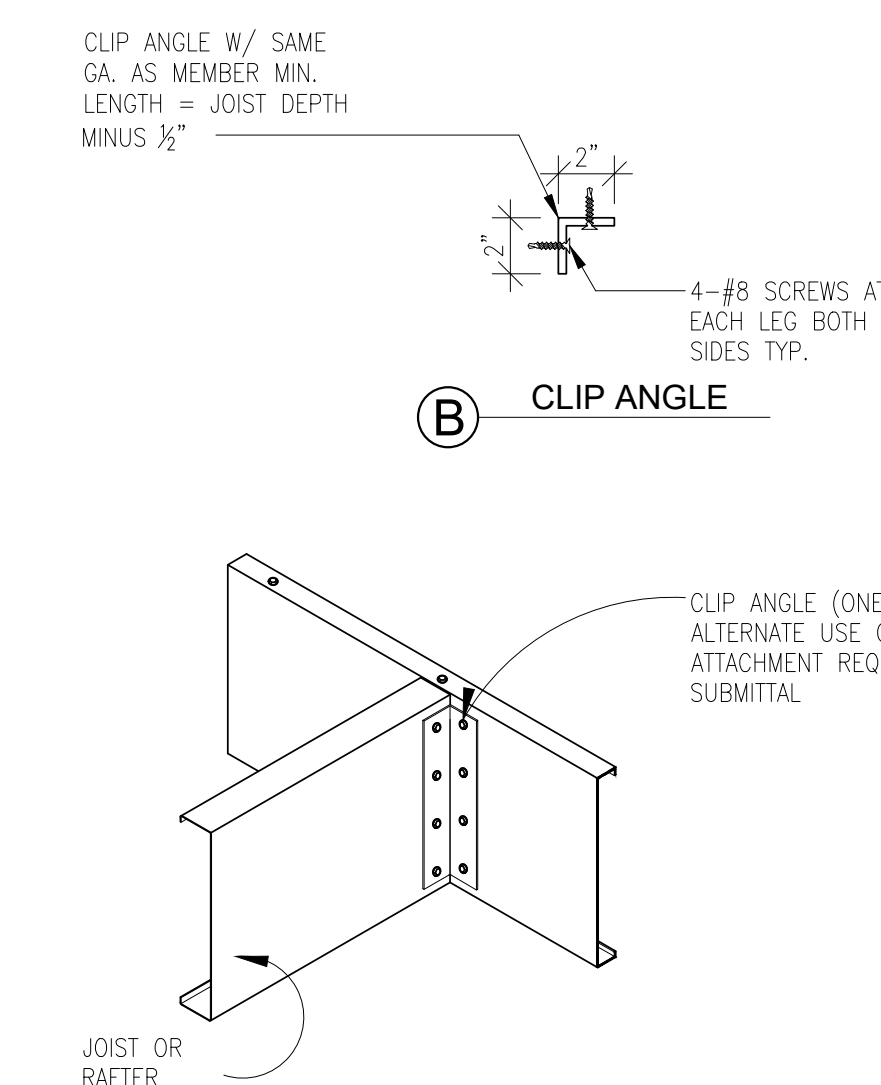
9



TOLERANCE FOR JOIST, RAFTER, TRUSS
AND STUD: IN-LINE FRAMING ALIGNMENT

N.T.S.

5



TYPICAL JOIST TO JOIST

N.T.S.

1