



ISOMETRIC VIEW - FOR REFERENCE ONLY

GENERAL REQUIREMENTS

- THE GENERAL CONTRACT DOCUMENTS EMPLOY THE FOLLOWING DEFINITIONS AND ABBREVIATIONS:
- A.** CONTRACT DOCUMENTS – THE LATEST SET OF DRAWINGS, SPECIFICATIONS, AND RECORDED ADDENDA AND AMENDMENTS TO THE CONTRACT DOCUMENTS.
- B.** LICENSED PROFESSIONAL (STRUCTURAL) ENGINEER – AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND QUALIFIED TO PERFORM THE WORK REQUIRED.
- C.** DELEGATED ENGINEER OF RECORD OR DELEGATED ENGINEER WHO IS IN POSSESSION OF A CURRENT LICENSE FOR THE PREPARATION, SIGNING, DATING, SEALING, AND ISSUING OF STRUCTURAL ENGINEERING DOCUMENTS FOR ENGINEERING SERVICE OR CREATIVE WORK.
- D.** DELEGATED ENGINEER OF RECORD OR DELEGATED ENGINEER WHO PROVIDES SERVICES OR CREATIVE WORK REGARDING A PORTION OF THE ENGINEERING PROJECT. THE DELEGATED ENGINEER IS THE ENGINEER OF RECORD FOR THAT PORTION OF THE ENGINEERING PROJECT. TYPICALLY, DELEGATED ENGINEERS FALL INTO ONE OF THE FOLLOWING CATEGORIES:
- a. AN INDEPENDENT CONSULTANT
 - b. AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR OR CONTRACTOR
 - c. AN EMPLOYEE OR OFFICER OF THE FABRICATOR OR CONTRACTOR
- E.** DELEGATED ENGINEERING DOCUMENTS – ENGINEERING DOCUMENTS THAT ARE PREPARED BY A DELEGATED ENGINEER.
- F.** DESIGN TEAM – DESIGN PROFESSIONALS INCLUDING THE ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER, MEP ENGINEER, AND ANY OTHER CONSULTANT THAT ISSUES CONTRACT DOCUMENTS.
- G.** CONTRACTOR – GENERAL CONTRACTOR, CONTRACTOR MANAGER, DESIGN BUILDER, OR ANY OTHER ENTITY AUTHORIZED BY THE OWNER TO CONSTRUCT THE PROJECT.
- H.** SHOP DRAWINGS – DRAWINGS DEPICTING INSTALLATION MEANS AND METHODS AND CATALOG INFORMATION ON STANDARD PRODUCTS. SHOP DRAWINGS SHALL BE PREPARED BASED ON ENGINEERING DIRECTION AND SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD. MANUFACTURER'S SHOP DRAWINGS ARE PROFESSIONAL ENGINEERING, FOR INCORPORATION INTO THE PROJECT.
- I.** ESTABLISHED CHANNELS – AT THE ONSET OF THE PROJECT, ARCHITECT, OWNER, CONTRACTOR, AND STRUCTURAL ENGINEER OF RECORD SHALL ESTABLISH COMMUNICATION LINES. THESE AGREED UPON LINES OF COMMUNICATION ARE THE ESTABLISHED CHANNELS.
- J.** GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE DESIGN AND CONSTRUCTION OF THE ENTIRE PROJECT, WHERE A DETAIL, TYPICAL, DETAIL, SECTION, TYPICAL SECTION, OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OTHERWISE.
- K.** DESIGN OF FOUNDATIONS, GRADE BEAMS, AND WALLS SHALL CONSIDER ALL OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- L.** SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THE DRAWINGS AND ANY OTHER CONTRACT DOCUMENT, SUCH AS SPECIFICATIONS OR STANDARD OF PRACTICE DURING BUILDING, THE PROVISION RESULTING IN THE GREATER COST SHALL PREVAIL. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT DURING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION TO THE DESIGN TEAM, WHO WILL PROVIDE THE ANSWER.
- M.** SPECIFICATIONS HAVE BEEN ISSUED ON THIS PROJECT BY THE STRUCTURAL ENGINEER OF RECORD AND ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.
- N.** SEE SPECIFICATIONS FOR MATERIALS AND REQUIREMENTS.
- O.** THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND ELEVATIONS, AND FOR THE DESIGN OF THE BUILDING.
- P.** THE BUILDING HAS BEEN DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD TO RESIST THE CODE REQUIRED VERTICAL AND LATERAL FORCES WITH FULLY COMPLETED CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND METHODS TO MAINTAIN THE BUILDING IN A SAFE AND SOUND CONDITION THROUGHOUT THE DURATION OF CONSTRUCTION. FURTHER, THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER OF RECORD TO PROVIDE THE NECESSARY DESIGN AND SUPERVISION TO MAINTAIN THE OVERLOADED, UNSTABLE, OR HAZARDOUS CONDITIONS THAT MAY OCCUR AT ANY STAGE DURING CONSTRUCTION OF THE BUILDING. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE DESIGN TEAM.
- Q.** THE CONTRACTOR SHALL NOT EMPLOY CONSTRUCTION MEANS OR METHODS THAT MAY DAMAGE UTILITIES, ADJACENT BUILDINGS, OR PROPERTY. DOCUMENTATION OF ADJACENT UTILITIES AND STRUCTURES TO CONSTRUCT WITHIN THE PROJECT AREA SHALL BE OBTAINED AND REVIEWED. THE CONTRACTOR SHALL CONFINE THE PROJECT TO ADJACENT PROPERTY FROM DAMAGE.
- R.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROJECT SAFETY AND OSHA REQUIREMENTS. IT SHOULD BE THE STRUCTURAL ENGINEER OF RECORD NOTICE THE CONTRACTOR OF A POTENTIALLY UNSAFE CONDITION, IT IS THE CONTRACTOR'S COURTESY FROM ONE PROFESSIONAL TO ANOTHER, IT SHOULD NOT BE INTERPRETED AS THE STRUCTURAL ENGINEER OF RECORD PROVIDING A GUARANTEE OF THE SAFETY OF THE PROJECT.
- S.** STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFE SPAN AND ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE STRUCTURAL ENGINEER OF RECORD. PERIODIC MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: STEEL PROTECTIVE COATINGS FOR CONCRETE, SEALANTS CAULKED JOINTS, EXPANSION JOINTS, CONTRACTION JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS.
- T.** THE USE OF OIL-BASED CHEMICALS ON ANY EXPOSED STRUCTURAL ELEMENT IS DISCOURAGED AND WILL ACCELERATE DEGRADATION OF STRUCTURAL ELEMENTS.
- U.** THE CONTRACTOR SHALL NOT REMOVE OR DESTROY ANY STRUCTURAL ELEMENT WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER. FURTHER, BUILDING STRUCTURE SHALL NOT RENOVATE, REFURISH, ADD-ON, OR OTHERWISE MODIFY THE EXISTING STRUCTURAL SYSTEMS WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER.
- V.** CONTRACT DRAWINGS SHOW MAJOR OPENINGS IN FLOORS AND WALLS AND DO NOT NECESSARILY SHOW ALL OPENINGS REQUIRED. THE CONTRACTOR SHALL COORDINATE ALL OPENING SIZES AND LOCATIONS BETWEEN ALL TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL OPENINGS TO BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR REQUIREMENTS WITHIN THE CONTRACT DOCUMENTS. OPENINGS REQUIRED, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE DESIGN TEAM.
- W.** THE CONTRACTOR SHALL COORDINATE PIPING AND CONDUIT EMBEDDED IN OR ATTACHED TO SLABS, SLABS-ON-DECK, BEAMS, AND COLUMNS. ANY REQUIRED MODIFICATIONS TO STRUCTURAL MEMBERS OR THEIR PROPERTIES SHALL BE AS APPROVED BY THE DESIGN TEAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEAM FOR THEIR REVIEW. SEE GENERAL STRUCTURAL NOTES SECTION "DESIGN CRITERIA" FOR LIMITATIONS OF MEP LOADING ON STRUCTURAL SYSTEMS.
- X.** THE STRUCTURAL ENGINEER OF RECORD'S ROLE DURING CONSTRUCTION
- 1. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT ASSUME CONTROL OF, OR RESPONSIBILITY FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, PROJECT SAFETY, THE DESIGN OR CONSTRUCTION OF THE CONTRACTOR, OR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - 2. STRUCTURAL ENGINEER OF RECORD SHALL NOT HAVE AUTHORITY TO STOP THE WORK OR AUTHORIZE ANY STOPPAGE OF THE WORK.
 - 3. PERIODIC SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER OF RECORD ARE SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK AND NOT FOR THE PURPOSE OF INSPECTION OR VERIFICATION OF THE WORK. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE CONTRACT DOCUMENTS. THIS LIMITED OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS AND THAT OBSERVATIONS ARE QUALITATIVE, NOT QUANTITATIVE. THIS LIMITED INFORMATION IS LIMITED TO ADDRESS ONLY OBSERVATIONS OF POTENTIAL DEFICIENCIES.
- Y.** CLARIFICATION OF POSITION OF STRUCTURALLY FRAMING ELEMENTS
- 1. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS; DO NOT SCALE ANY DIMENSIONS
 - 2. DIMENSIONS OF FOUNDATIONS, GRADE BEAMS, AND WALLS SHALL BE BASED ON THESE DIMENSIONS
 - 3. CENTER LINES OF COLUMNS AND FOUNDATIONS SHALL COINCIDE WITH GRID LINE INTERSECTION, UNLESS NOTED OTHERWISE
 - 4. CENTER LINES OF FRAMING MEMBERS SHALL COINCIDE WITH COLUMN CENTER LINES, UNLESS NOTED OTHERWISE
 - 5. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS, OR BEAMS, UNLESS NOTED OTHERWISE
- Z.** ARCHITECTURAL, CIVIL, MEP, AND VERTICAL TRANSPORTATION CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO:
- a. CIVIL

ELECTRONIC DATA/REPRODUCTION

- | | | | |
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| ALL INFORMATION CONTAINED IN THE ELECTRONIC FILES OF THE CONTRACT DOCUMENTS ARE INSTRUMENTS OF SERVICE OF THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD AND SHALL NOT BE USED FOR OTHER THAN THE INTENDED PURPOSES OF THE PROJECT. THE COMPLETION OF THE PROJECT BY OTHERS, THE ELECTRONIC FILES OF THE STRUCTURAL DOCUMENTS REMAIN THE PROPERTY OF JEZERNICK GROUP AND IN NO CASE SHALL THEIR TRANSFER BE CONSIDERED A SALE. | | | |
| B. | THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD PROVIDES REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS. SIGNATURES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES THEMSELVES TO CORRECT ANY ERRORS, OMISSIONS, AND/OR DISCREPANCIES ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREIN. THE USE OF ELECTRONIC FILES DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROPER CHECKING AND COORDINATION OF DIMENSIONS, DETAILS, SIZE, AND QUANTITIES. | | |
| C. | THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD PROVIDES ELECTRONIC FILES MAY NOT BE PRECISE AND, IN SOME CASES, HAVE BEEN INTENTIONALLY ALTERED FOR PRESENTATION PURPOSES. DO NOT SCALE DIMENSIONS ELECTRONICALLY OR OTHERWISE. | | |
| D. | WHEN THE CONTRACTOR PREPARES SHOP DRAWINGS, ALL INFORMATION NOT APPLICABLE TO THE SUBSECTION SHALL BE REMOVED FROM THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: SHEET NUMBERS, SECTION MARKS, TITLE BLOCKS, AND REFERENCES TO THE CONTRACT DOCUMENTS. | | |
| SUBMITTALS | | | |
| A. | REFER TO DIVISION 01 FOR SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND REQUIREMENTS. REFER TO THE APPLICABLE SPECIFICATION SECTIONS FOR TECHNICAL CONTENT. | | |
| B. | SUBMIT SPECIFIC COMPONENTS SUCH AS COLUMNS, FOUNDATIONS, ETC. IN A SINGLE PACKAGE. SUBMIT SMALL FLORAS TOGETHER. | | |
| C. | TURNING IN FILES PRIOR TO SUBMITTING SHOP DRAWINGS. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW AND COMMENT BY THE STRUCTURAL ENGINEER OF RECORD, A SCHEDULE WHICH DETAILS THE ESTIMATED QUANTITY OF SHOP DRAWINGS AND THE DATE THE STRUCTURAL WILL BE RECEIVED BY THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL HAVE THE OPPORTUNITY TO REVIEW THE PROPOSED SCHEDULE AND SUBMIT COMMENTS TO THE CONTRACTOR. THE FINAL SHOP DRAWING SCHEDULE SHALL BE DEVELOPED AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD. IN ACCORDANCE WITH THE SCHEDULE, THE STRUCTURAL ENGINEER OF RECORD WILL RETURN THE SHOP DRAWING FILES WITHIN TEN WORKING DAYS AFTER HAVING RECEIVED THE REPRODUCIBLE SHOP DRAWING. | | |
| D. | THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL, PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL STAMP EACH SUBMITTAL VERIFYING THAT THE FOLLOWING IS ADDRESSED: | | |
| | 1. THE SUBMITTAL IS REQUESTED. | | |
| | 2. THE SUBMITTAL IS BASED ON THE LATEST DESIGN. | | |
| | 3. THE SUBMITTAL IS CLEARLY CLODED FOR ALL THE DIFFERENCES FROM THE CONTRACT DOCUMENTS ON THE FIRST SUBMITTAL. | | |
| | 4. THE SUBMITTAL IS CLEARLY CLODED FOR ALL CHANGES AND ADDITION FROM PREVIOUS SUBMITTAL. | | |
| | 5. THE ARCHITECT'S AND STRUCTURAL ENGINEER OF RECORD'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED. | | |
| | 6. THE WORK IS COORDINATED AMONGST ALL CONSTRUCTION TRADES. | | |
| | 7. THE SUBMITTAL IS COMPLETE. | | |
| | 8. THE SUBMITTAL SHALL INCLUDE A STAMP INDICATING PROJECT NAME AND LOCATION, SUBMITTAL NUMBER, AND THE SPECIFICATION SECTION NUMBER. | | |
| E. | THE STRUCTURAL ENGINEER OF RECORD'S REVIEW OF SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT. | | |
| F. | THE ARCHITECT/ENGINEER OF RECORD SHALL RETURN, WITHOUT COMMENT, SUBMITTALS WHICH THE CONTRACTOR HAS NOT STAMPED OR WHICH DO NOT MEET THE ABOVE REQUIREMENTS. | | |
| G. | FOR THE COMPONENTS DESIGNED BY A DELEGATED ENGINEER, PROVIDE SHOP DRAWINGS, DESIGN CALCULATIONS, AND A COVER LETTER TO BE SIGNED AND SEALED BY THE DELEGATED ENGINEER. LETTER SHALL INDICATE THAT THE SHOP DRAWINGS ARE IN CONFORMANCE WITH THE DELEGATED ENGINEER'S CALCULATIONS. REFER TO APPLICABLE SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS. | | |
| | FOR THE COMPONENTS DESIGNED BY THE ARCHITECT/ENGINEER OF RECORD, THE ENGINEER'S LETTER SHALL INDICATE THAT THE SHOP DRAWINGS ARE IN CONFORMANCE WITH THE ARCHITECT/ENGINEER'S CALCULATIONS. THESE ELEMENTS OF THE DESIGN ARE DEFERRED SUBMITTAL COMPONENTS AND HAVE NOT BEEN PERMITTED UNDER THE BASE BUILDING APPLICATION. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD FOR REVIEW. THE ARCHITECT/ENGINEER OF RECORD, IN CONFORMANCE TO THE DESIGN OF THE BUILDING, THE CONTRACTOR SHALL SUBMIT THESE REVIEWED DEFERRED SUBMITTAL DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL. THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD FOR REVIEW AND THE BUILDING OFFICIAL HAS APPROVED. SEE BELOW FOR THE LIST OF DEFERRED SUBMITTALS. | | |
| I. | THE FOLLOWING SUBMITTALS ARE REQUIRED TO BE REVIEWED BY STRUCTURAL ENGINEER OF RECORD REVISED AS OUTLINED IN THE SPECIFICATIONS: | | |
| 031000 | CONCRETE FORMWORK | | |
| 032000 | CONCRETE REINFORCEMENT LAYOUT | | (SS, CALC) |
| 033000 | CONCRETE PRODUCT DATA | | (S) |
| 033000 | DIMENSION PLANS AND SLEEVE LAYOUT DRAWINGS | | (S) |
| 033000 | CONCRETE MIX DESIGN | | (CALC, TA) |
| 033000 | CONCRETE CONSTRUCTION JOINT LAYOUT | | (S) |
| 033000 | SLAB-ON-GROUND SAWCUT CONTROL JOINT LAYOUT DRAWINGS | | (S) |
| 033816 | POST-TENSIONING PRODUCT DATA | | (S) |
| 033816 | POST-TENSIONING TENDON LAYOUT & INSTALLATION DRAWINGS | | (DF, SS) |
| 033816 | POST TENSIONING TENDON FRICTION LOSS CALC | | (DF, CALC) |
| 033816 | STRESSING RECORDS | | (S) |
| 040000 | MASONRY PRODUCT DATA | | (S) |
| 042200 | MASONRY REINFORCEMENT LAYOUT | | (S) |
| 051000 | STRUCTURAL STEEL | | |
| 051200 | STRUCTURAL STEEL CONNECTIONS | | (S, SS, CALC) |
| 051300 | STEEL DECK | | (S) |
| 054000 | COLD-FORMED METAL FRAMING USED FOR EXTERIOR SHORING | | (SS, CALC, SEE ARCH/ENG LETTER) |
| | HANDRAIL, GUARDRAIL, RAILING | | (SS, CALC, REC) |
| 054400 | PRIOR PRE-ENGINEERED TRUSS SHOP DRAWINGS | | (DF, S) |
| 054400 | PRIOR PRE-ENGINEERED TRUSS DELEGATED DESIGN SUBMITTAL | | (DF, S) |
| 102000 | ELEVATOR | | (DF, SS, CALC, REC) |
| 312129 | DEWATERING | | (GEO, REC) |
| S = | SHOP DRAWING REQUIRED | | |
| DF = | DEFERRED SUBMITTAL | | |
| SS = | SUBMITTED TO SHOP DRAWINGS PREPARED BY A LICENSED DELEGATED ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED. | | |
| CALC = | SUPPORTING CALCULATIONS REQUIRED; SIGNED AND SEALED BY A LICENSED DELEGATED ENGINEER OF RECORD. | | |
| REC = | ITEMS SUBMITTED FOR RECORD ONLY AND WILL NOT HAVE STRUCTURAL ENGINEER OF RECORD SHOP DRAWING STAMP AFFIXED. | | |
| GEO = | SUBMITTED TO CONSTRUCTION GEO-TECHNICAL ENGINEER FOR THEIR REVIEW. | | |
| TA = | ITEMS SUBMITTED TO OWNER'S TESTING AGENCY FOR THEIR REVIEW. | | |

GOVERNING CODES & STANDARDS

BUILDING CODE:	FBC 2023	FLORIDA BUILDING CODE, BUILDING
STANDARDS:	ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
	ACI 308	AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
	TMS 402	THE MASONRY SOCIETY: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
	AISC 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
	AISC 341	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
	AWS D1.1	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - STEEL
	AWS D1.3	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - SHEET STEEL
	AWS D1.4	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - REINFORCEMENT STEEL
	AISI 310	AMERICAN IRON AND STEEL INSTITUTE: NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLONIAL STEEL STRUCTURAL MEMBERS
	AWS NDS	AMERICAN WOOD COUNCIL: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
	ASCE SPWD5	AMERICAN WOOD COUNCIL: SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS

ABBREVIATIONS

ADJ	ADDITIONAL	L	LENGTH
ADJ	ADJACENT	LB(S)	POUNDS(S)
ALT	ABOVE FINISHED FLOOR	LV	LIVE LOAD
ALT	ALTERNATE	LLH	LONG LEG HORIZONTAL
APPROX	APPROXIMATE	LLV	LONG LEG VERTICAL
ARCH	ARCHITECT OR ARCHITECTURAL	LONG	LONGITUDINAL
ASD	ALLOWABLE STRESS DESIGN	LRFD	LOAD RESISTANCE FACTORED DESIGN
B	BOTTOM	LSH	LONG SIDE HORIZONTAL
B/B	BACK-TO-BACK	LSV	LONG SIDE VERTICAL
BLDG	BUILDING	LTS	LAP TENSION SPlice
BLDG	BLOCKING	LW	LIGHT WEIGHT
BRG	BEARING	LWC	LIGHT WEIGHT CONCRETE
BT	BOTTOM	M	MOMENT
BTWN	BETWEEN	MAX	MAXIMUM
C	COMPRESSION	MC	MOMENT CONNECTION(S)
CFS	COLD-FORMED STEEL	MECH	MECHANICAL
CP	CAST-IN-PLACE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
CJ	CONTRACTION JOINT	MFR	FIRE PROTECTION
CL	CENTER LINE	MID	MIDDLE
CLR	CLEAR OR CLEARANCE	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
COL	COLUMN		
CONC	CONCRETE	NIC	NOT IN CONTRACT
CON(N)S	CONNECTION(S)	NS	NEAR SIDE
CONST	CONSTRUCTION	NTS	NOT TO SCALE
CONT	CONTINUOUS	NWC	NORMAL WEIGHT CONCRETE
COORD	COORDINATE	NSFC	NOT SHOWN FOR CLARITY
db	REINFORCING BAR DIAMETER	OC	ON CENTER
DA	DEFORMED BAR ANCHOR	OD	OUTSIDE DIAMETER
DW	DEMAND CRITICAL WELD	OF	OUTSIDE OF
°	DEGREE(S)	OH	OPPOSITE HAND
Ø	DIAMETER	OP(N)G(S)	OPENING(S)
DIAG	DIAGONAL	OPP	OPPOSITE
DM(S)	DIMENSION(S)	OSL	OUTSTANDING LEG
DL	DEAD LOAD		
DWG(S)	DRAWING(S)	PAF	POWDER ACTUATED FASTENER
EA	EACH	PERP	PERPENDICULAR
EAF	EACH FACE	PJF	PREFORMED JOINT FILLER
EJ	EXPANSION JOINT	PL	PLATE
EL	ELEVATION	PLF	POUNDS PER LINEAL FOOT
ELEV	ELEVATOR	PREST	PRECAST
EOS	EDGE-OF-SLAB	PREFAB	PRE-FABRICATED
EQL	EQUAL	PSF	POUNDS PER SQUARE FOOT
EQUIP	EQUIPMENT	PSI	POUNDS PER SQUARE INCH
EW	EACH WAY	PT	POST-TENSIONED
EXIST	EXISTING	REF	REFERENCE
EXP	EXPANSION	REINF	REINFORCE(D) (ING) OR (MENT)
EXT	EXTERIOR	REQ(D)	REQUIRED
		REV	REVISION
FF	FACE-TO-FACE	RTU	ROOF TOP UNIT
FD	FLOOR DRAIN		
FF	FINISH FLOOR	SCHED	SCHEDULE(D)
FND	FOUNDATION	SDL	SUPERIMPOSED DEAD LOAD
FS	FAIR SIDE	SER	STRUCTURAL ENGINEER OF RECORD
FT	FEET	SF	SQUARE FOOT (FEET)
FTG	FOOTING	SIM	SIMILAR
		SLRS	SEISMIC LOAD RESISTING SYSTEM
GA	GAGE, GAUGE	SOG	SLAB-ON-GROUND
GALV	GALVANIZED	SP	SPACE
GB	GRADE BEAM	SPEC(S)	SPECIFICATIONS
GC	GENERAL CONTRACTOR	SS	STAINLESS STEEL
GDR	GIRDER	STD	STANDARD
GEN	GENERAL	STIFF	STIFFENER
GYP	GYPSONIUM	STR	STRUCTURE OR STRUCTURAL
HCA	HEADED CONCRETE ANCHORS	SYM	SYMMETRICAL
HORIZ	HORIZONTAL	T	TENSION
HSS	HOLLOW STRUCTURAL SECTION	T&B	TOP AND BOTTOM
		T&G	TONGUE & GROOVE
ID	INSIDE DIAMETER	TI	TOP OF
IF	INSIDE FACE	TEMP	TEMPERATURE OR TEMPORARY
IN	INCH	TYP	TYPICAL
INFO	INFORMATION		
INT	INTERIOR	UNO	UNLESS NOTED OTHERWISE
JST(S)	JOIST(S)	V	SHEAR
K	KIPS (1,000 POUNDS)	VERT	VERTICAL
KLF	KIP PER LINEAR FOOT	VIF	VERIFY IN FIELD
KSF	KIP PER SQUARE FOOT	W	WITH
ksi	KIPS PER SQUARE INCH	WO	WITHOUT
		WP	WORK POINT
		WWR	WELDED WIRE REINFORCEMENT

STRUCTURAL THRESHOLD INSPECTIONS

- B. SPECIAL SECTION 553.71 OF THE FLORIDA STATUTES, THIS BUILDING QUALIFIES AS A THRESHOLD BUILDING.
C. PER CHAPTERS INSPECTORS OF THRESHOLD BUILDINGS (THRESHOLD INSPECTORS) SHALL MEET THE REQUIREMENTS OF RULE 61C15-30.00 OF THE FLORIDA ADMINISTRATIVE CODE.
D. PER CHAPTER 172 OF THE FLORIDA STATUTES, THE ENFORCING AGENCY SHALL REQUIRE A THRESHOLD INSPECTOR TO PERFORM STRUCTURAL INSPECTIONS ON A THRESHOLD BUILDING PURSUANT TO A STRUCTURAL INSPECTION PLAN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD.
E. PER CHAPTER 471.015 OF THE FLORIDA STATUTES, THE STATE OF FLORIDA WHO IS CERTIFIED UNDER CHAPTER 471.015 OF THE FLORIDA STATUTES, TO CONDUCT INSPECTIONS OF A THRESHOLD BUILDING. FURTHER, THE THRESHOLD INSPECTOR MUST BE ON THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS LIST OF PERSONS QUALIFIED TO BE THRESHOLD INSPECTORS.
F. THE INSPECTION PLAN MUST BE PREPARED AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A BUILDING PERMIT FOR THE CONSTRUCTION OF A THRESHOLD BUILDING.
G. THE FEE OWNER OF A THRESHOLD BUILDING SHALL SELECT AND PAY ALL COSTS OF EMPLOYING A THRESHOLD INSPECTOR.
H. THRESHOLD INSPECTIONS SHALL BE PERFORMED BY THE THRESHOLD INSPECTOR.
I. THRESHOLD INSPECTIONS RELATED TO TEMPORARY CONDITIONS SUCH AS SHORING, RE-SHORING, AND TEMPORARY BRACING ARE REQUIRED TO BE PERFORMED BY THE CONTRACTOR'S DELEGATED ENGINEER.
J. DELEGATED ENGINEER (NOT SPECIAL INSPECTOR) IS RESPONSIBLE FOR THE SUPERVISION, INSPECTION AND CERTIFICATION OF SUCH TEMPORARY CONDITIONS.
K. SEE STRUCTURAL INSPECTION PLAN FOR FURTHER INFORMATION.

STRUCTURAL DRAWING LIST	
SHEET NUMBER	SHEET NAME
S-000	GENERAL NOTE
S-002A	LOADING CRITERIA
S-002B	LOAD PLANS
S-003	CONCRETE GENERAL NOTES & SCHEDULES
S-004	CMU GENERAL NOTES & SCHEDULES
S-005	STEEL GENERAL NOTES & SCHEDULES
S-121	OVERALL FOUNDATION PLAN
S-122	OVERALL SECOND FLOOR PLAN
S-123	OVERALL THIRD FLOOR PLAN
S-124	OVERALL FOURTH FLOOR PLAN
S-125	OVERALL ROOF PLAN
S-141A	PARTIAL FOUNDATION PLAN AREA A
S-141B	PARTIAL FOUNDATION PLAN AREA B
S-142A	PARTIAL SECOND FLOOR FRAMING PLAN AREA A
S-142A-PT	PARTIAL SECOND FLOOR FRAMING PLAN AREA A
S-142B	PARTIAL SECOND FLOOR REINFORCING PLAN AREA A
S-142B-PT	PARTIAL SECOND FLOOR REINFORCING PLAN AREA A
S-143A	PARTIAL THIRD FLOOR FRAMING PLAN AREA A
S-143A-PT	PARTIAL THIRD FLOOR FRAMING PLAN AREA A
S-143B	PARTIAL THIRD FLOOR REINFORCING PLAN AREA A
S-143B-PT	PARTIAL THIRD FLOOR REINFORCING PLAN AREA A
S-144A	PARTIAL FOURTH FLOOR FRAMING PLAN AREA A
S-144B	PARTIAL FOURTH FLOOR REINFORCING PLAN AREA A

<u>STRUCTURAL DRAWING LIST</u>	
<u>SHEET NUMBER</u>	<u>SHEET NAME</u>
S-144A-P	PARTIAL FOURTH FLOOR REINFORCING PLAN AREA A
S-144A-R	PARTIAL FOURTH FLOOR REINFORCING PLAN AREA A
S-144B	PARTIAL ROOF FRAMING PLAN AREA B
S-144B-PT	PARTIAL ROOF PT PLAN AREA B
S-145A	PARTIAL ROOF REINFORCING PLAN AREA B
S-145A	PARTIAL ROOF FRAMING PLAN AREA A
S-145A-PT	PARTIAL ROOF PT PLAN AREA A
S-145A-R	PARTIAL ROOF REINFORCING PLAN AREA A
S-310	TYPICAL FOUNDATION DETAILS
S-310	TYPICAL SLAB-ON-GROUND DETAILS
S-320	TYPICAL CONCRETE SHEAR WALL DETAILS
S-321	CONCRETE SHEAR WALL ELEVATIONS - AREA A
S-321	CONCRETE SHEAR WALL ELEVATIONS - AREA B
S-324	CONCRETE SHEAR WALL ELEVATIONS - AREA A
S-325	CONCRETE SHEAR WALL ELEVATIONS - AREA B
S-330	TYPICAL PT TENDON DETAILS
S-332	TYPICAL PT REINFORCING DETAILS
S-332	TYPICAL PT SHEAR STUD RAILS DETAILS
S-340	TYPICAL CONCRETE COLUMN DETAILS
S-350	TYPICAL CONCRETE BEAM DETAILS
S-370	CONCRETE STAIR DETAIL
S-370	TYPICAL CONCRETE FRAMING DETAILS
S-400	TYPICAL MASONRY DETAILS
S-500	STEEL FRAMING DETAILS
S-600	ROOF FRAMING DETAILS

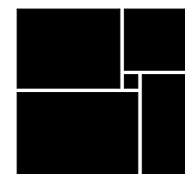
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JG Project #: 21.18.004

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Project No.: 202100
Date: 08/22/202

GENERAL NOTES

S-001

DESIGN CRITERIA

- A. STRUCTURE LOCATION:
LONGITUDE: -80.059
LATITUDE: 26.857
- B. LOADING:
1. SEE LOAD PLANS
2. RAIN LOAD:
DESIGN RAINFALL: 5/HOUR (100-YEAR, 1-HOUR RAINFALL)
RAINWATER AT LOWEST POINT OF ROOF SHALL: (NOT POND DURING DESIGN RAINFALL / NOT EXCEED 6" DURING DESIGN RAINFALL)
DESIGN RAIN LOAD, R: 30 PSF
3. SNOW LOAD:
GROUND SNOW LOAD, P_g: 5 PSF
4. WIND LOAD:
ULTIMATE DESIGN WIND SPEED, V_{ult}: 170 MPH
NOMINAL DESIGN WIND SPEED, V_{ref}: 132 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
ENCLOSURE CLASSIFICATION: ENCLOSED
INTERNAL PRESSURE COEFFICIENT: +/- 0.18
COMPONENTS & CLADDING DESIGN PRESSURES: SEE WIND PRESSURE DIAGRAMS
5. SEISMIC LOAD:
A. AREA A
RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR, I_e: 1.0
SITE CLASS: D (ASSUMED)
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S_e: 0.055 g
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S₁: 0.025 g
SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{0.01}: 0.049 g
SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{0.03}: 0.035 g
SEISMIC DESIGN CATEGORY: A
SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS
OVERSTRENGTH FACTOR, O₁: 2.5
RESPONSE MODIFICATION FACTOR, R: 4
SEISMIC RESPONSE COEFFICIENT, C_s: 0.015
EFFECTIVE SEISMIC WEIGHT, W: 9700 KIPS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR: 50 KIPS
- B. AREA B
RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR, I_e: 1.0
SITE CLASS: D (ASSUMED)
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S_e: 0.055 g
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S₁: 0.025 g
SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{0.01}: 0.049 g
SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{0.03}: 0.035 g
SEISMIC DESIGN CATEGORY: A
SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS
OVERSTRENGTH FACTOR, O₁: 2.5
RESPONSE MODIFICATION FACTOR, R: 4
SEISMIC RESPONSE COEFFICIENT, C_s: 0.015
EFFECTIVE SEISMIC WEIGHT, W: 6500 KIPS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR: 50 KIPS
- C. HANDRAIL AND GUARDRAIL LOADS:
CONCENTRATED AND DISTRIBUTED LOADS ARE TO BE APPLIED AT THE HANDRAIL OR TOP RAIL IN ANY DIRECTION. CONCENTRATED AND DISTRIBUTED LOADS ARE NOT TO BE APPLIED CONCURRENTLY.
CONCENTRATED LOAD: 200 LB
DISTRIBUTED LOAD: 50 PLF
- D. FUTURE EXPANSION:
NO PROVISIONS HAVE BEEN MADE FOR FUTURE VERTICAL OR HORIZONTAL EXPANSION OF THE STRUCTURE.
- E. SERVICEABILITY:
1. DEFLECTION LIMITS: TOTAL LOAD DEFLECTION ONLY APPLIES TO THE DEFLECTION DUE TO THE CREEP COMPONENT OF LONG-TERM DEAD LOAD DEFLECTION PLUS THE SHORT-TERM DEFLECTION. LONG-TERM DEFLECTION OF WOOD STRUCTURAL MEMBERS SHALL BE CALCULATED IN ACCORDANCE WITH THE AWC NDS. IT IS PERMITTED TO ESTIMATE THE CREEP COMPONENT OF THE LONG-TERM DEFLECTION AS THE IMMEDIATE DEAD LOAD DEFLECTION.
a. ROOF MEMBERS
• TOTAL LOAD DEFLECTION: L/240
• TRANSITORY LOAD DEFLECTION: L/360
b. FLOOR MEMBERS
• TOTAL LOAD DEFLECTION: L/240
• LIVE LOAD DEFLECTION: L/360
c. EXTERIOR WALLS & CLADDING
• WIND LOAD DEFLECTION: L/360
d. INTERIOR PARTITIONS
• LIVE LOAD DEFLECTION: L/240
2. DRIFT LIMITS
a. INTERSTORY DRIFT: H/400
b. TOTAL STRUCTURE DRIFT: H/500

C&C EXTERNAL PRESSURE LOADS (PSF)												
EWA (#2)	ZONE											
	3	1F	2F	3F	4	5	P4	P5	ROH 1	ROH 2	ROH 3	
10	57	32	32	32	76	31	173	199	147	147	147	
	-140	-126	-167	-227	-82	-218	--	--	-166	-205	-205	
20	49	30	30	30	73	29	151	186	132	132	132	
	-121	-118	-156	-206	-79	-197	--	--	-151	-182	-182	
50	39	28	28	28	68	26	135	170	113	113	113	
	-95	-107	-142	-178	-74	-170	--	--	-131	-152	-152	
100	31	26	26	26	65	24	124	157	98	98	98	
	-76	-99	-131	-166	-71	-149	--	--	-116	-129	-129	
200	31	26	26	26	61	24	116	146	91	91	91	
	-76	-90	-120	-155	-68	-129	--	--	-113	-126	-126	
500	31	26	26	26	57	24	105	132	82	82	82	
	-76	-79	-106	-146	-63	-102	--	--	-108	-121	-121	

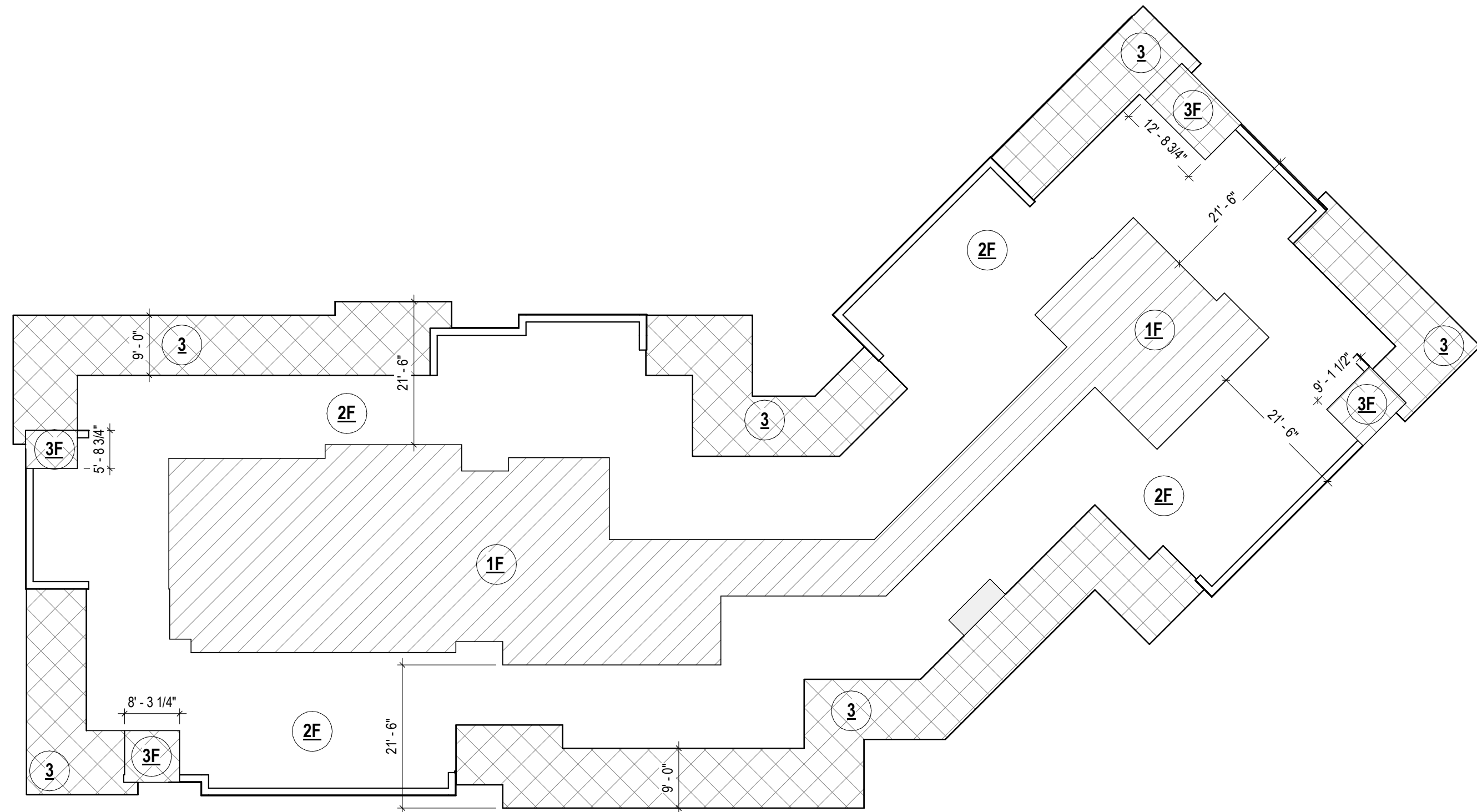
NOTES:

- FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE AREA.
- DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.
- a = 10L. SEE ROOF PLAN MAP BELOW FOR LOCATION OF a-ZONES. WALL a-ZONE LOCATIONS TO MATCH ROOF a-ZONES.
- POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE. NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OR COMPONENT FACE.
- EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
- PARAPET COMPONENTS AND CLADDING ARE THOSE ELEMENTS WHICH EXIST ABOVE THE HORIZONTAL PLANE OF THE ROOF AND SHALL BE DESIGNED FOR:
 - POSITIVE AND NEGATIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON OUTSIDE FACE.
 - POSITIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
 - NEGATIVE PRESSURES 2 OR 3 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
 - THIS SHALL BE APPLIED TO THE DESIGN OF THE STRUCTURAL ELEMENT OF THE PARAPET AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE PARAPET.
- A DESIGN WIND PRESSURE HORIZONTAL VALUE OF . PSF AND VERTICAL VALUE OF PSF SHALL BE APPLIED TO COMPONENTS WHICH ARE EITHER ROOFTOP STRUCTURES OR ROOFTOP APPURTENANCES AND THEIR CONNECTION. EXAMPLES OF THIS ARE RTUs, AHUs, AND SCREEN WALLS.
- ROH# : DENOTES DESIGN WIND PRESSURE VALUES WHICH SHALL BE APPLIED AT ROOF OVERHANGS TO TOP SURFACE CLADDING OR SHEATHING AND ITS CONNECTION. SOFFIT CLADDING OR SHEATHING SHALL BE DESIGNED FOR SIMILAR PRESSURE TO THE ADJACENT WALL PRESSURE. A COMBINATION OF THESE FORCES SHALL BE APPLIED TO THE STRUCTURAL ELEMENT OF THE OVERHANG AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE OVERHANG.
- ALL DOORS TO BE RATED TO RESIST DESIGN WIND PRESSURES SPECIFIED.

C&C-A
S-002A

AREA A COMPONENTS AND CLADDING DIAGRAM

1/16" = 1'-0"



C&C-B
S-002A

AREA B COMPONENTS AND CLADDING DIAGRAM

1/16" = 1'-0"

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CERTIFICATE OF AUTHORIZATION FL #30785
JG Project #: 21.18.004

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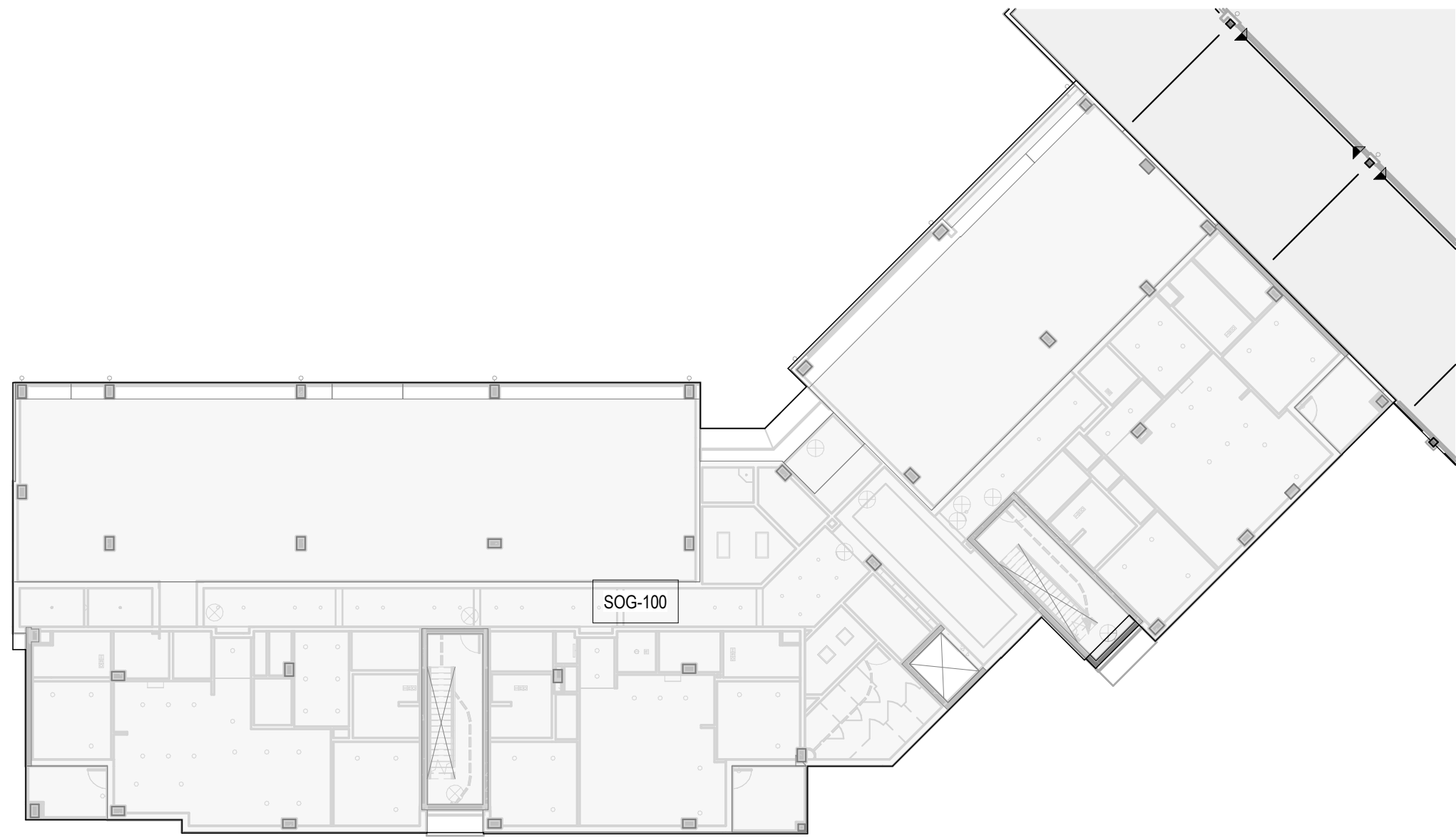
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DEVELOPMENT**

Project No.: 2021009
Date: 08/22/2025

**LOADING
CRITERIA**

S-002A

Autodesk Docs://The Waterford (Stage 2)/2021009_WCR_L-BLDG_STRUCT_R24.rvt



GB
S-002B

GROUND FLOOR LOAD PLAN - AREA B

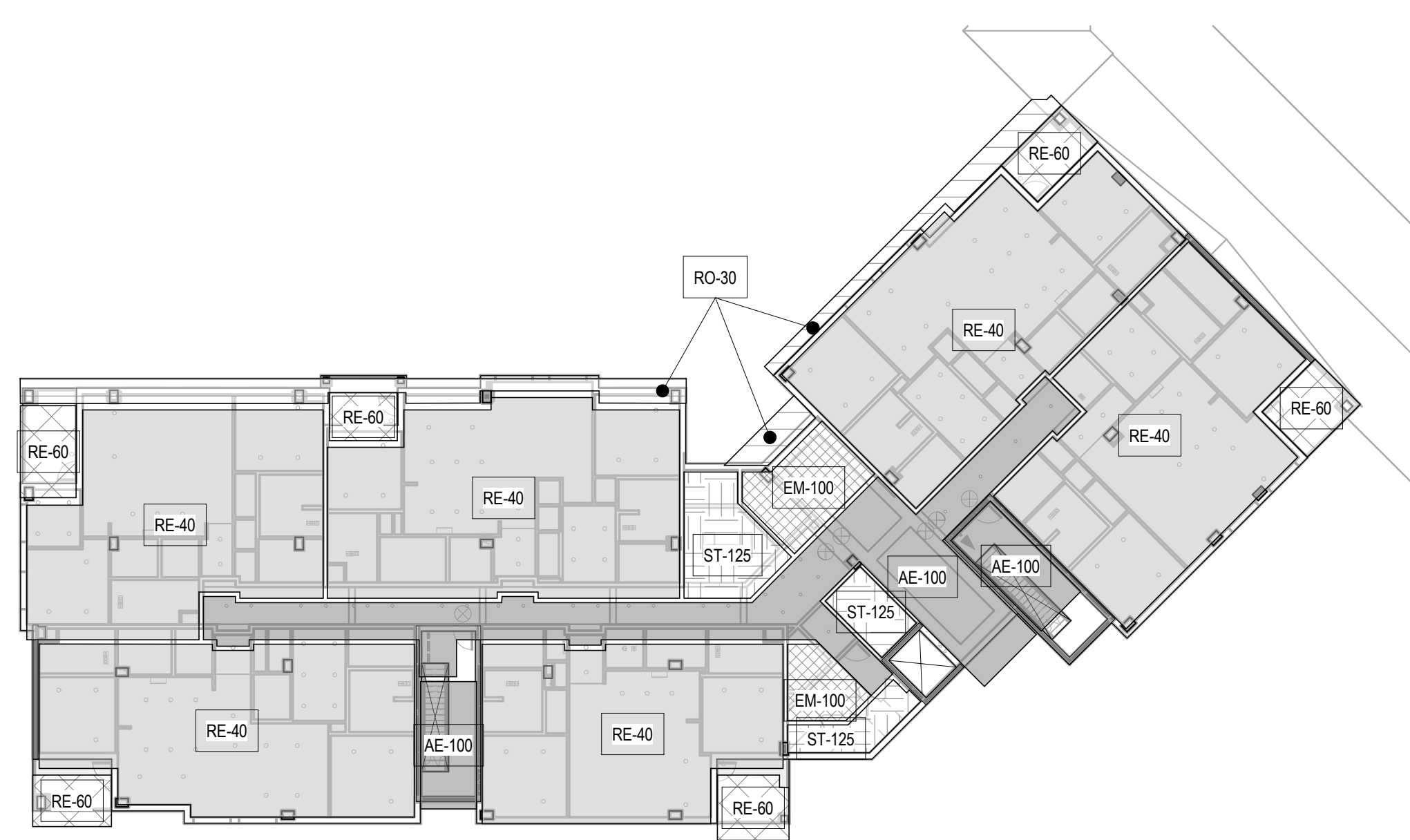
3/64" = 1'-0"



GA
S-002B

GROUND FLOOR LOAD PLAN - AREA A

3/64" = 1'-0"



2B
S-002B

SECOND FLOOR LOAD PLAN - AREA B

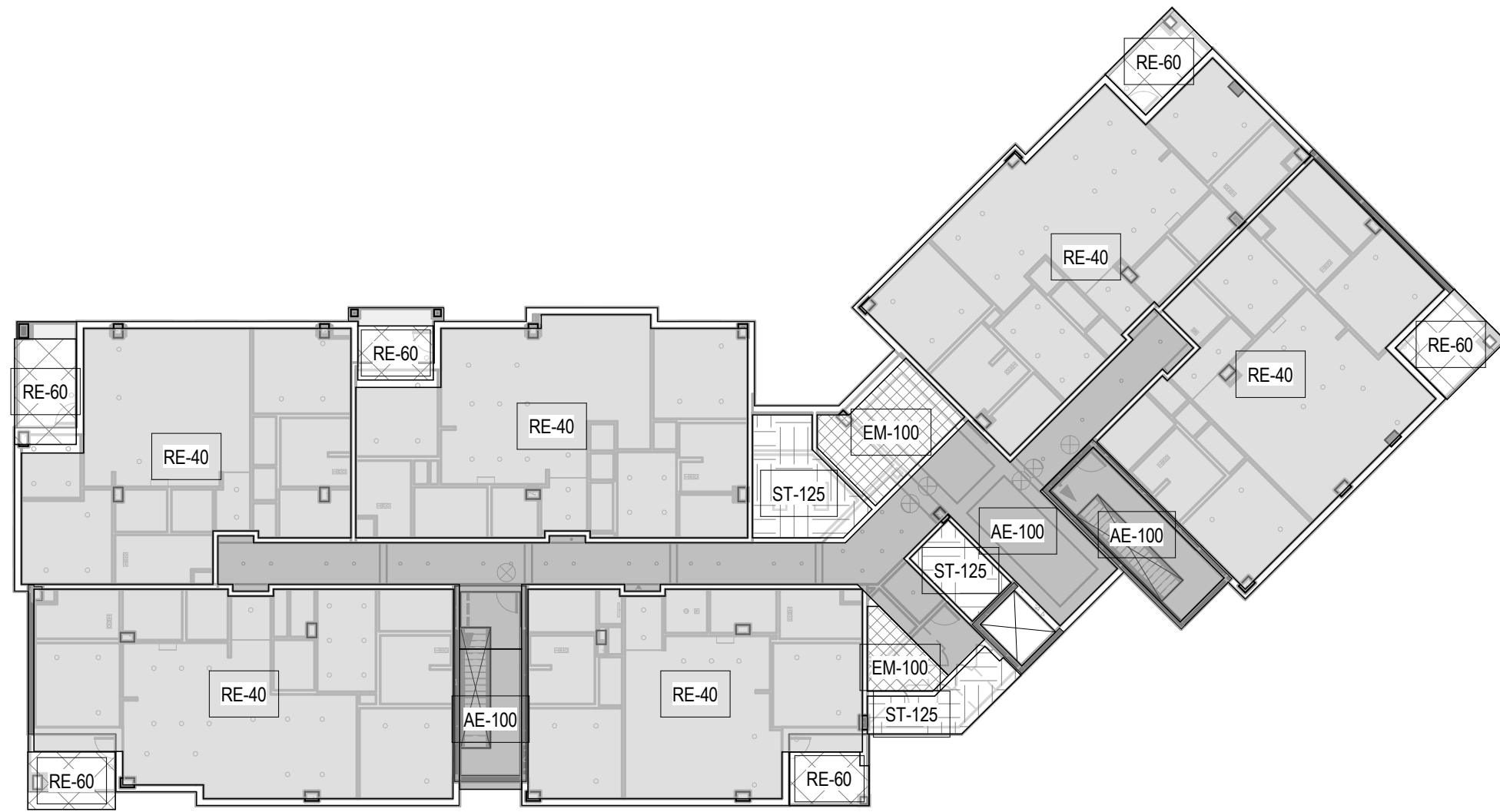
3/64" = 1'-0"



2A
S-002B

SECOND FLOOR LOAD PLAN - AREA A

3/64" = 1'-0"



3B
S-002B

THIRD FLOOR LOAD PLAN - AREA B

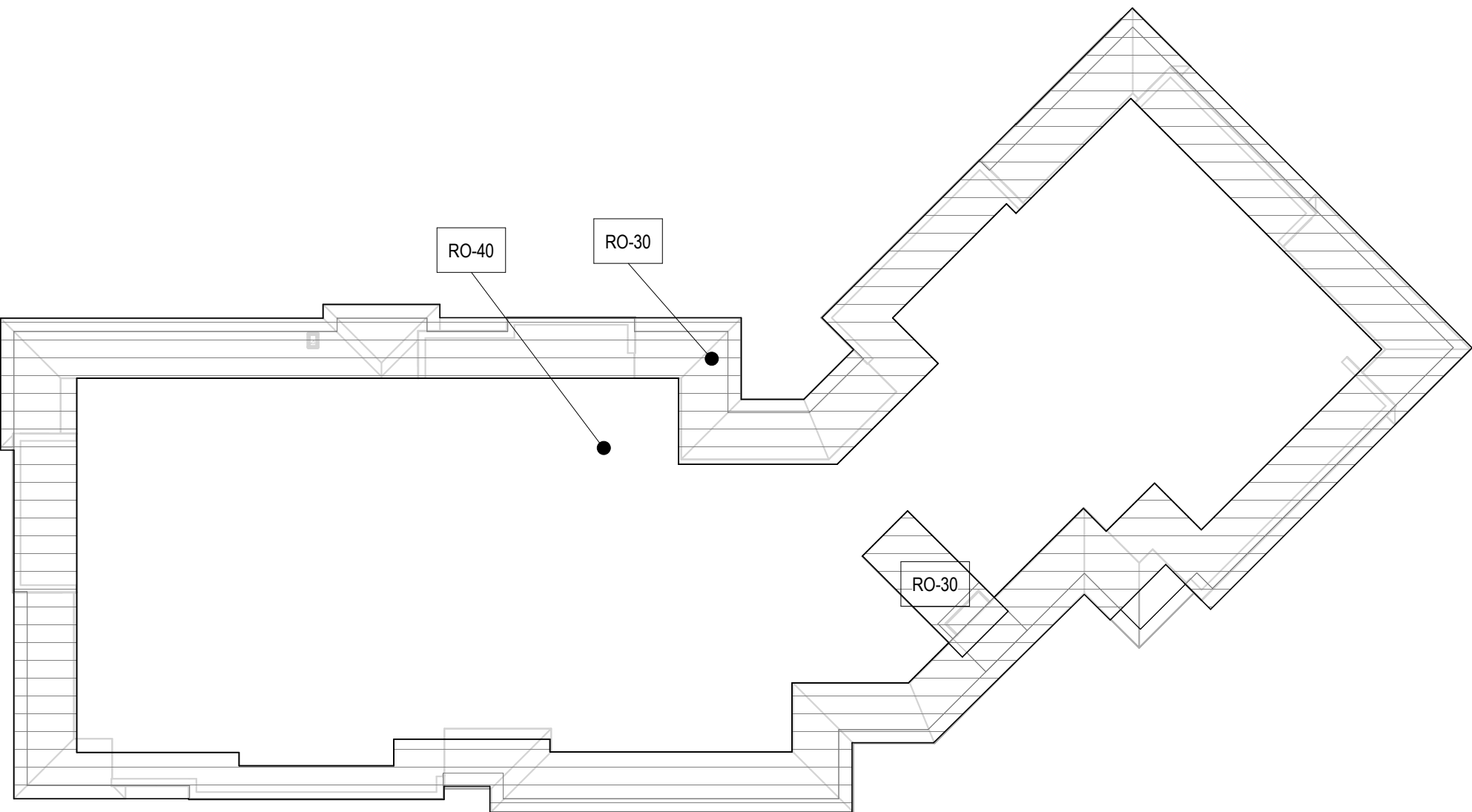
3/64" = 1'-0"



3A
S-002B

THIRD AND FOURTH FLOOR PLAN - AREA A

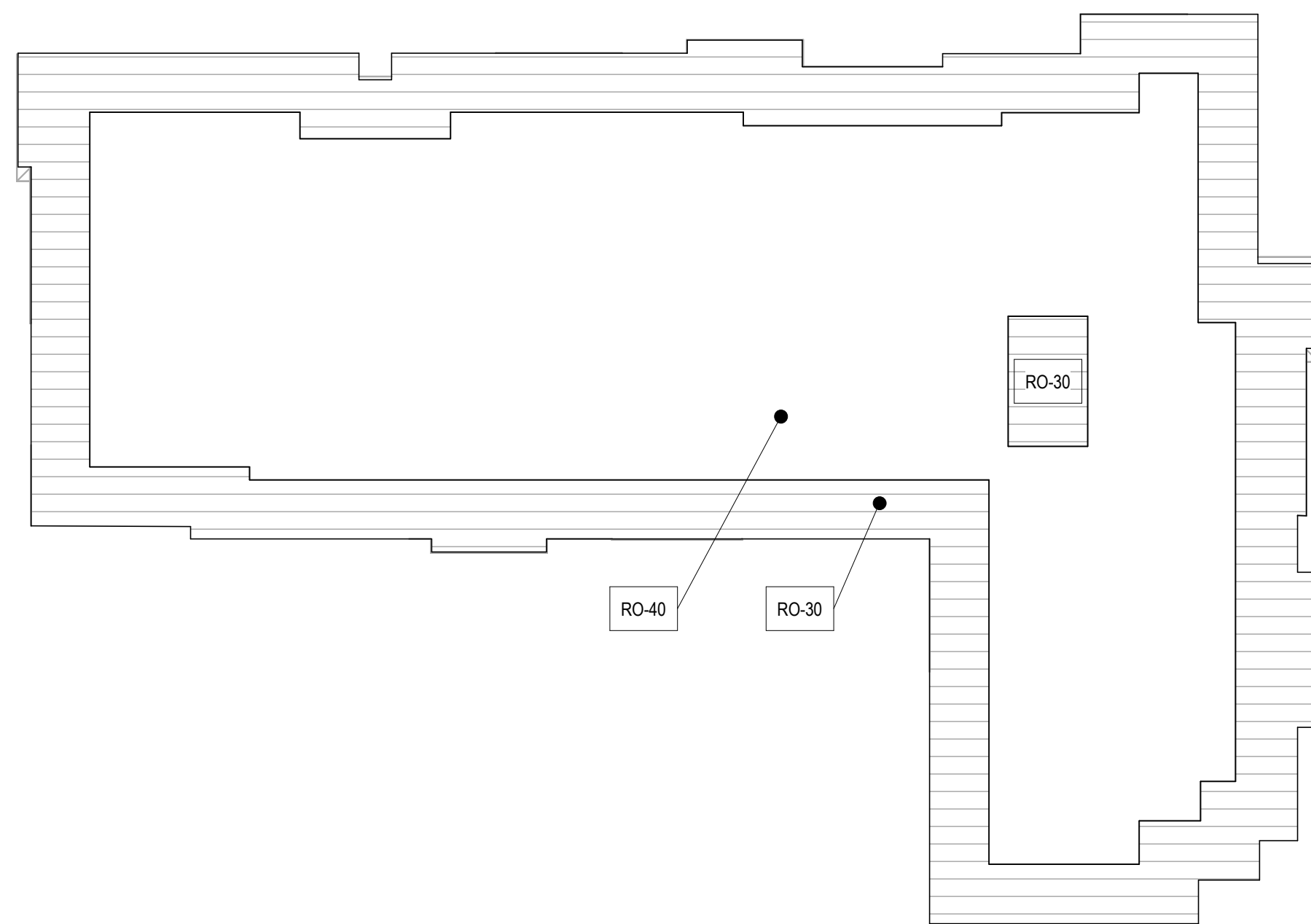
3/64" = 1'-0"



RB
S-002B

ROOF LEVEL LOAD PLAN - AREA B

3/64" = 1'-0"



RA
S-002B

ROOF LEVEL LOAD PLAN - AREA A

3/64" = 1'-0"

LOAD MAP KEY					
MARK	OCCUPANCY OR USE	SUPER-IMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	COMMENTS
AE-100	ASSEMBLY/EGRESS	25	100	No	
EM-100	ELECTRICAL & MECHANICAL	25	100	No	
RE-40	RESIDENTIAL	25	40	Yes	
RE-60	RESIDENTIAL BALCONY	25	60	Yes	
RO-30	ROOF TYPICAL	35	30	Yes	
RO-40	ROOF WELL	10	40	Yes	
SOG-100	SLAB-ON-GROUND	25	100	No	
ST-125	STORAGE	25	125	No	

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Project No.: 2021009
Date: 08/22/2025

LOAD PLANS

S-002B

CONCRETE

- A. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION 03 OF THE SPECIFICATIONS. FOR CONCRETE MIXTURE REQUIREMENTS SEE SCHEDULE ON THIS SHEET.
- B. THE USE OF RECYCLED CONCRETE IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
- D. NORMAL WEIGHT CONCRETE SHALL BE USED FOR ALL CONCRETE MEMBERS UNLESS NOTED OTHERWISE. NORMAL WEIGHT CONCRETE SHALL HAVE A CURED DENSITY OF 145 PCF ±5 PCF. WHERE LIGHT WEIGHT CONCRETE IS SPECIFIED THE CURED DENSITY SHALL BE 112 PCF ±3 PCF.
- E. EACH MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER AND THE INTENDED LOCATION OF PLACEMENT ON THE SPECIFIC PROJECT SHALL BE CLEARLY STATED.
- F. ALL PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS OR BY WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. FOR MILD REINFORCED MEMBERS, CONSTRUCTION JOINTS SHALL OCCUR WITHIN THE INSTALLED THROUGH MEMBER'S SPAN. ALL APPROVED CONSTRUCTION JOINTS SHALL BE INDICATED, DIMENSIONED, AND DETAILED ON THE CONCRETE REINFORCEMENT SHOP DRAWINGS.
- G. GIRDERS, BEAMS, HAUNCHES, DROP PANELS, DROP CAPS, AND CAPITALS SHALL BE POURED MONOLITHICALLY AS PART OF THE SLAB SYSTEM UNLESS NOTED OTHERWISE.
- H. PROVIDE A 1/4" INCH CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, ETC UNLESS NOTED OTHERWISE. CONCRETE CORING AND INSTALLATION OF DRILLED ANCHORS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
- J. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL CONCRETE DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL COORDINATE BETWEEN THE ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS TO FURNISH DIMENSIONED DRAWINGS THAT LOCATE AND SIZE ALL SLAB EDGES, OPENINGS, AND PENETRATIONS. THESE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- K. UNBESCREENED CONDUITS, PIPES, AND SLEEVES

1. THE OUTSIDE DIAMETER OF CONDUITS, PIPES, AND SLEEVES SHALL NOT EXCEED ONE-THIRD THE THICKNESS OF THE SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED. EMBEDMENTS SHALL NOT SIGNIFICANTLY REDUCE THE CAPACITY OF THE MEMBER THEY PENETRATE.
2. THE MINIMUM CLEAR COVER FOR CONDUITS, PIPES, AND SLEEVES SHALL BE 1" FOR CONCRETE EXPOSED TO EARTH OR WEATHER AND 1/2" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.
3. ALL MINOR EMBEDMENTS AND EMBEDMENTS MADE OF ANY OTHER MATERIAL, HARMFUL TO THE CONCRETE OR REINFORCEMENT ARE PROHIBITED.
4. EMBEDMENTS NOT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE DESIGNED TO RESIST THE EFFECTS OF MATERIAL, PRESSURE, AND TEMPERATURE THAT WILL BE SUBJECTED TO. THE WORK SHALL BE COORDINATED AMONGST ALL CONSTRUCTION TRADES.
5. THE CONTENTS OF EMBEDDED PIPES SHALL NOT FLOW UNTIL THE CONTRACTOR HAS REACHED ITS SPECIFIED DESIGN STRENGTH.
6. CONDUITS, PIPES, AND SLEEVES SHALL BE PLACED BETWEEN TOP AND BOTTOM LAYERS OF REINFORCEMENT IN SLABS AND BETWEEN INNER AND OUTER LAYERS OF REINFORCEMENT IN WALLS.
7. EMBEDDED ITEMS SHALL BE FABRICATED AND INSTALLED BEFORE ANY CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS SPECIFIED LOCATION IS NOT REQUIRED.

CONCRETE REINFORCEMENT

- A. ALL CONCRETE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 03 OF THE SPECIFICATIONS.
- B. ALL REINFORCEMENT STEEL SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.
- C. WHERE WELDS ARE INDICATED FOR REINFORCEMENT STEEL ON THE DRAWINGS, REINFORCEMENT STEEL SHALL BE A706, GRADE 60 UNLESS OTHERWISE NOTED.
- D. WELDED WIRE REINFORCEMENT SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF ASTM A1064.
- E. ALL 90°, 135°, AND 180° HOOKED REINFORCEMENT SPECIFIED AND GRAPHICALLY DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE DETAILLED IN ACCORDANCE WITH ACI 318 STANDARD HOOK GEOMETRY FOR DEFORMED BARS IN TENSION AND FOR STRIPS, TIES, AND HOOKS.
- F. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MINIMUM OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE, TYPICAL).
- G. FOR CONCRETE CLEAR COVER TO REINFORCEMENT SEE SCHEDULE ON THIS SHEET. UNLESS NOTED OTHERWISE, CLEAR COVER IN PARENTHESES () DENOTES CLEAR COVER WHEN THE AS-BUILT APPLICATION IS EXPOSED TO WEATHER.
- H. ALL LAP SPICES SHALL BE CLASS 3 TENSION LAP SPICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE. SEE LAP SPICE SCHEDULE ON THIS SHEET FOR LAP SPICE LENGTHS. UNLESS NOTED AS CONTINUOUS, REINFORCEMENT SHALL ONLY BE SPLICED AT LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS. SPICES AT NON-SPECIFIED LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- I. A MINIMUM LAP SPICE OF 8" SHALL BE PROVIDED AT ALL END AND SIDE LAP CONDITIONS FOR WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE.
- J. MECHANICAL SPICES ARE REQUIRED WHERE SPECIFIED ON THE CONTRACT DOCUMENTS. MECHANICAL SPICES ARE ALSO REQUIRED TO SPICE #14 AND #18 BARS. MECHANICAL SPICES MAY ALSO BE USED AT THE CONTRACTOR'S OPTION, PROVIDED THE MECHANICAL SPICES HAVE A CURRENT 100-EPH REPORT DEMONSTRATING THEY CAN DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION. MECHANICAL SPICES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- K. THE USE OF WELDED SPICES IS PROHIBITED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SUBMIT THE LOCATIONS OF WELDED SPICES TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. IF APPROVED, WELDED SPICES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.
- L. DOWELS SHALL MATCH SIZE AND SPACING OF PRIMARY REINFORCEMENT UNLESS NOTED OTHERWISE.
- M. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AT OPENINGS AND PENETRATIONS.
- N. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCEMENT BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

EARTHWORK & FOUNDATIONS

- A. GEOTECHNICAL INVESTIGATION REPORT
1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:
- a. REPORT TITLE [] (REPORT NO. [])
- b. PREPARED BY []
- c. DATE []
2. THE GEOTECHNICAL INVESTIGATION REPORT IS AVAILABLE TO THE CONTRACTOR UPON REQUEST TO THE OWNER. THE INFORMATION HEREIN MAY BE USED BY THE CONTRACTOR FOR HIS GENERAL REFERENCE ONLY. THE GEOTECHNICAL INVESTIGATION REPORT RECOMMENDATIONS SHALL SUPERSEDE THE MINIMUM CRITERIA STATED IN THE STRUCTURAL GENERAL NOTES.
- B. SHALLOW FOUNDATIONS
1. FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
2. FOUNDATION SIZES AND REINFORCEMENT ARE BASED ON AN ALLOWABLE BEARING PRESSURE OF [] PSF PER THE GEOTECHNICAL INVESTIGATION REPORT.
3. FOUNDATIONS SHALL BEAR A MINIMUM OF []" BELOW ADJACENT EXTERIOR GRADE.
4. FOUNDATIONS SHALL BEAR ON COMPACTED STRUCTURAL FILL, NATURAL SOILS, OR ROCK PREPARED PER THE GEOTECHNICAL INVESTIGATION REPORT.
5. PRIOR TO PLACEMENT OF CONCRETE, A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY SOILS CONFORMANCE TO THE RECOMMENDATIONS AND ASSUMPTIONS IN THE GEOTECHNICAL INVESTIGATION REPORT. ALL ADVERSE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
6. SOILS BELOW FOUNDATIONS NOT MEETING DESIGN BEARING PRESSURE SHALL BE REMEDIATED PER THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE FOUNDATIONS.
7. ENTER ALL FOUNDATIONS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNLESS NOTED OTHERWISE.
8. TOP OF FOUNDATION ELEVATIONS PROVIDED ON THE CONTRACT DRAWINGS ARE FOR PURPOSE OF THE CONTRACT AND SHALL BE ADJUSTED, AS REQUIRED, AT THE TIME OF EXCAVATION TO BEAR ON PROPERLY PREPARED SUPPORT SUBGRADE (PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS).
- C. EARTHWORK AND EXCAVATION
1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING, BUT NOT LIMITED TO: LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS.
2. EXCAVATION SHALL NOT OCCUR WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROTECTED AGAINST SETTLEMENT.
3. THE EXTENT OF SUBGRADE PREPARATION SHALL EXTEND A MINIMUM OF 5' ± BEYOND THE BUILDING PERIMETER.
4. THE CONTRACTOR SHALL PROVIDE A SUBGRADE BENEATH THE SLAB-ON-GROUND PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
5. UNLESS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT, COMPACT FILL TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557. EACH LAYER SHALL NOT EXCEED 8" LOOSE THICKNESS. COMPACT PRIOR TO THE PLACEMENT OF THE NEXT LAYER. COMPACT SHALL MEET ALL RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT.
6. PLACEMENT OF FILL AND COMPACT SHALL BE MONITORED AND ACCEPTED BY A RETAINED TESTING AGENCY. PERFORM A MINIMUM OF ONE FIELD DENSITY TEST (ASTM D-1556 OR D-6938) FOR EVERY 2,500 SQUARE FEET OF EACH LAYER. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
7. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF THE CONSTRUCTION DEWATERING SYSTEMS REQUIRED FOR THE EXCAVATION. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING SITE.
8. THE CONTRACTOR SHALL SUBMIT CONSTRUCTION DEWATERING PLAN TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO BEGINNING EXCAVATION.
9. THE CONTRACTOR SHALL INSTALL ALL NECESSARY DEWATERING SYSTEMS.
- D. RETAINING WALL
1. RETAINING WALLS SHALL BE DESIGNED FOR THE FOLLOWING:
- a. LATERAL EARTH PRESSURE AT REST: [] PSF PER FOOT OF DEPTH
- b. ACTIVE EARTH PRESSURE: [] PSF PER FOOT OF DEPTH
- c. PASSIVE EARTH PRESSURE RESISTANCE: [] PSF PER FOOT OF DEPTH
- d. SOIL FRICTION FACTOR: []
2. RETAINING WALL DESIGN IS BASED ON DRAINED BACKFILL WITH NO BUILDUP OF WATER. THE CONTRACTOR SHALL PROVIDE A DRAINAGE SYSTEM IN ALL BACKFILL CONDITIONS (SEE CIVIL/ARCHITECTURAL DRAWINGS FOR DRAINAGE SPECIFICATIONS).
3. DO NOT BACKFILL AGAINST CANTILEVERED RETAINING WALLS UNTIL CONCRETE COMPRESSIVE STRENGTH, f_c , REACHES ITS 28 DAY DESIGN STRENGTH. DO NOT BACKFILL PRIOR TO WATERPROOFING AND INSPECTION.
- E. DEEP FOUNDATIONS
1. DEEP FOUNDATIONS ARE DESIGNED BASED ON THE FOLLOWING DESIGN CRITERIA PER THE GEOTECHNICAL INVESTIGATION REPORT:
- a. ALLOWABLE END BEARING PRESSURE: [] PSF
- b. ALLOWABLE SKIN FRICTION (COMPRESSION): [] PSF
- c. ALLOWABLE TENSION CAPACITY [] BELOW FINISHED SLAB ELEVATION
- d. MINIMUM EMBEDMENT INTO BEARING STRATUM: []
- e. DEPTH TO BEARING STRATUM (FOR ESTIMATING PURPOSES ONLY): []
2. ASSUMED BEARING DEPTH SHALL BE VERIFIED IN FIELD BY QUALIFIED GEOTECHNICAL ENGINEER RETAINED BY THE OWNER.
3. PRIOR TO PLACEMENT OF CONCRETE, THE GEOTECHNICAL ENGINEER SHALL VERIFY SOILS CONFORMANCE TO THE RECOMMENDATIONS AND ASSUMPTIONS IN THE GEOTECHNICAL INVESTIGATION REPORT. ALL ADVERSE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATIONS. WHERE NECESSARY, SHEET AND SHORE THE EXCAVATION WITH ALL REQUIRED TIEBACKS AND BRACING AS DETERMINED BY THE CONTRACTOR'S SHORING ENGINEER. THE SHORING ENGINEER SHALL BE LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

CONCRETE MIXTURE REQUIREMENTS									
	APPLICATION	EXPOSURE CLASS	f_c (PSI)	TEST AGE	MODULUS OF ELASTICITY (KSI)	MAXIMUM WCM	AIR CONTENT	NOMINAL MAXIMUM AGGREGATE	MAXIMUM CONCRETE WEIGHT (PCF)
ON-GROUND	FOUNDATIONS	FO, SO, W1, C1	4000	28 DAYS	3605	SEE NOTE 2	SEE NOTE 3	1"	150
	SLAB-ON-GROUND (EXTERIOR)	FO, SO, W1, C1	4000	28 DAYS	3142	SEE NOTE 2	SEE NOTE 3	1"	150
	SLAB-ON-GROUND (INTERIOR)	FO, SO, W0, C0	3000	28 DAYS	3122	SEE NOTE 2	SEE NOTE 3	1"	150
	SHEAR WALLS AND COLUMNS	FO, SO, W2, C1	5000	28 DAYS	4031	0.50	SEE NOTE 3	3/4"	150
	CMU FILLED CELLS	GROUT MIX SHALL BE USED FOR CMU FILLED CELLS - SEE CONCRETE MASONRY UNIT GENERAL NOTES, DETAILS, AND SPECIFICATIONS							
VERTICAL	POST-TENSIONED ELEVATED FRAMING (EXTERIOR)	FO, SO, W2, C1	5000 @ 28-Days 3000 @ 48-Hours	28 DAYS	4031 @ 28-Days	SEE NOTE 2	SEE NOTE 3	3/4"	150
	POST-TENSIONED ELEVATED FRAMING (INTERIOR)	FO, SO, W0, C0	5000 @ 28-Days 3000 @ 48-Hours	28 DAYS	4031 @ 28-Days	SEE NOTE 2	SEE NOTE 3	3/4"	150
	ELEVATED SLABS AND BEAMS (NON-PRESTRESSED)	FO, SO, W1, C1	5000	28 DAYS	4031	SEE NOTE 2	SEE NOTE 3	3/4"	150
ELEVATED	POST-TENSIONED ELEVATED FRAMING (EXTERIOR)	FO, SO, W2, C1	5000 @ 28-Days 3000 @ 48-Hours	28 DAYS	4031 @ 28-Days	SEE NOTE 2	SEE NOTE 3	3/4"	150
	POST-TENSIONED ELEVATED FRAMING (INTERIOR)	FO, SO, W0, C0	5000 @ 28-Days 3000 @ 48-Hours	28 DAYS	4031 @ 28-Days	SEE NOTE 2	SEE NOTE 3	3/4"	150

NOTES:

1. EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY, AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE.
2. WATER/CEMENT RATIO SHALL BE AS REQUIRED FOR THE SPECIFIED CONCRETE MIX DESIGN. THERE IS NO MAXIMUM WATER/CEMENT RATIO REQUIREMENT FOR THE EXPOSURE CLASSIFICATION ASSOCIATED WITH THIS APPLICATION. MAXIMUM WATER/CEMENT RATIO IS NOT APPLICABLE FOR DURABILITY REQUIREMENTS IN LIGHTWEIGHT CONCRETE.
3. THERE IS NO MANDATORY TARGET AIR CONTENT FOR THIS APPLICATION. THE CONTRACTOR MAY CHOOSE TO ADD AIR ENTRAINMENT TO IMPROVE THE WORKABILITY AND FINISHING PROPERTIES OF THE MIX. AIR CONTENT SHALL BE AS REQUIRED FOR THE SPECIFIED CONCRETE MIX.
4. COARSE AGGREGATE SHALL BE ASTM C 33 GRADED. SELECT GRADING CLASS PER TYPE OF CONSTRUCTION OR LOCATION USED, AND IN RELATION TO SPECIFIC WEATHER REGION. AGGREGATE SHALL BE FROM A SINGLE SOURCE. #57 GRADING SHALL BE USED FOR CONCRETE WITH 14" MAXIMUM; #57 GRADING SHALL BE USED FOR CONCRETE WITH 1" INCH MAXIMUM.
5. ALUMINUM EMBEDMENTS AND EMBEDMENTS MADE OF ANY OTHER MATERIAL, HARMFUL TO THE CONCRETE OR REINFORCEMENT ARE PROHIBITED.
6. EMBEDMENTS NOT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE DESIGNED TO RESIST THE EFFECTS OF MATERIAL, PRESSURE, AND TEMPERATURE THAT WILL BE SUBJECTED TO. THE WORK SHALL BE COORDINATED AMONGST ALL CONSTRUCTION TRADES.
7. LIMITED DEFLECTED PIPES SHALL NOT FLOW UNTIL THE CONTRACTOR HAS REACHED ITS SPECIFIED DESIGN STRENGTH.
8. CONDUITS, PIPES, AND SLEEVES SHALL BE PLACED BETWEEN TOP AND BOTTOM LAYERS OF REINFORCEMENT IN SLABS AND BETWEEN INNER AND OUTER LAYERS OF REINFORCEMENT IN WALLS.
9. EMBEDDED ITEMS SHALL BE FABRICATED AND INSTALLED BEFORE ANY CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS SPECIFIED LOCATION IS NOT REQUIRED.

CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) CLEAR COVER SCHEDULE

APPLICATION	BOTTOM	TOP	SIDES
FOUNDATIONS	2"	2"	2"
SLAB-ON-GROUND	SEE DETAILS	SEE DETAILS	3"
RETAINING WALLS	N/A	N/A	2"
SHEAR WALLS	N/A	N/A	1 1/2"
COLUMNS	N/A	N/A	1 1/2"
INTERIOR ELEVATED SLABS	N/A	N/A	2" TO VERTICAL BARS
EXTERIOR ELEVATED SLABS - POST TENSIONED	1"	1"	1 1/2"
EXTERIOR ELEVATED SLABS - CONVENTIONAL	1"	1 1/2"	1 1/2"
STRUCTURED SLAB-ON-GROUND	3"	1 1/2"	2"
BEAMS	1 1/2"	1 1/2"	1 1/2"

DEVELOPMENT LENGTH SCHEDULE (INCHES)

BAR SIZE	MIN BAR SPACING (INCHES) (MAX OF 1" OR 2db)	TENSION					
		Ld, f_c (psi)	Ld, f_c (psi)	Ld, f_c (psi)	Ld, f_c (psi)	Ld, f_c (psi)	Ld, f_c (psi)
#3	1.375	14	14	14	14	14	14
#4	1.500	22	19	17	11	10	9
#5	1.625	28	24	22	14	12	11
#6	1.750	33	29	26	17	15	13
#7	1.875	48	42	38	20	17	15
#8	2.000	55	48	43	22	19	17
#9	2.375	62	54	48	25	22	20
#10	2.625	70	61	54	28	25	22
#11	2.875	78	67	60	31	27	24

LAP SPICE LENGTH SCHEDULE (INCHES)

BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)			
		f_c = 4,000 PSI	f_c = 5,000 PSI	OTHER	OTHER
#4	1.500	33	25	29	23
#5	1.625	41	31	36	28
#6	1.750	49	37	44	34
#7	1.875	71	54	63	49
#8	2.000	81	62	72	56
#9	2.375	91	70	81	63
#10	2.625	102	79	92	71
#11	2.875	114	87	102	78

POST-INSTALLED ANCHORS

- A. SEE THE POST-INSTALLED ANCHORS SPECIFIED PRODUCTS BY APPLICATION SCHEDULE ON THIS SHEET FOR PRE-APPROVED PRODUCTS.
1. WHEN A SPECIFIC MANUFACTURER AND PRODUCT IS NOT CALLED FOR, IT IS ACCEPTABLE TO USE ANY OF THE LISTED PRODUCTS FOR THAT APPLICATION AS APPROPRIATE FOR THE SUBSTRATE AND LIMITATIONS OF THE PRODUCT PER MANUFACTURER'S LITERATURE. SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD, INCLUDING SUBSTITUTION FOR ONE OF THE PRE-APPROVED PRODUCTS.
- B. SEE THE POST-INSTALLED ANCHORS INSTALLATION REQUIREMENTS ON THIS SHEET, THE MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS, AND THE ASSOCIATED PRODUCT APPROVALS FOR EACH PRODUCT TO BE UTILIZED ON THIS PROJECT.
- C. ANCHOR MATERIALS/COATINGS SHALL BE STAINLESS STEEL (TYPE 316 AT ALL EXTERIOR LOCATIONS OR UNCONDITIONED SPACES, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, PROVIDE SEPARATING RUBBERIZING/EPHRENE WASHERS AT DISSIMILAR MATERIALS WHEN ANCHOR MATERIAL DIFFERS FROM FIXTURE MATERIAL).
- D. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURERS' INSTALLATION INSTRUCTIONS, APPLICABLE EVALUATION REPORTS, AND AS INDICATED WITHIN THE SPECIAL INSPECTIONS PLAN WITHIN THE CONSTRUCTION DOCUMENTS.
- E. CONTINUOUS INSPECTION SHALL BE PROVIDED FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY, UPWARDLY INCLUDING, OR OVERHEAD.
- F. ADHESIVE ANCHORS SHALL BE PROOF TESTED AS FOLLOWS:
1. EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF TESTED IN TENSION BY AN INDEPENDENT TESTING LABORATORY.
 2. PROOF LOADING SHALL BE PERFORMED TO ADHESIVE ANCHORS AS FOLLOWS:
 - a. 10% OF ADHESIVE ANCHORS FOR EACH TYPE AND SIZE OF ADHESIVE ANCHOR.
 - b. ADDITIONAL SPECIFIC ANCHORS AS NOTED WITHIN THE CONSTRUCTION DOCUMENTS.
 3. PROOF LOADING SHALL BE PERFORMED ON PRODUCTION ANCHORS. SACRIFICIAL ANCHORS SHALL BE NOT CONSIDERED ACCEPTABLE.
 4. THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE STRUCTURAL ENGINEER OF RECORD.
 5. TENSION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM E488 AND ACI 308.4, PERFORMED AFTER THE 28-DAY CONCRETE CURING PERIOD AND AFTER THE MINIMUM EPH CURING PERIOD SPECIFIED BY THE MANUFACTURER. PROOF LOADING SHALL BE 1.5 TIMES THE ASD LOAD OF THE ANCHOR, AND LOAD IS TO BE MAINTAINED ON THE ANCHOR FOR A MINIMUM OF 10 SECONDS.
 6. ANCHORS SHALL HAVE NO VISIBLE INDICATION OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOAD APPLICATION. CONCRETE CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE CONSIDERED A FAILURE.
 7. IF MORE THAN 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHIN THE LIMITED DEFLECTED IN THESE NOTES, AN ADDITIONAL 25% OF THE ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE PROOF TESTED.
 8. IN THE EVENT OF FAILURE TO ACHIEVE PROOF LOAD, OR EXCESSIVE DISPLACEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE CONCRETE.

POST-TENSIONED CONCRETE

- A. ALL POST-TENSIONED CONCRETE SHALL MEET THE REQUIREMENTS IN THE CONCRETE MIX SCHEDULE ON [] PRIOR TO STRESSING OF THE POST-TENSIONED SLAB. THE CONCRETE SHALL ATTAIN A MINIMUM OF TWO-THIRDS OF THE SPECIFIED 28-DAY COMPRESSIVE DESIGN STRENGTH, OR ALTERNATIVELY, THE MINIMUM REQUIRED BY THE POST-TENSIONING MANUFACTURER, WHICHEVER IS GREATER.
- B. NO CONCRETE SHALL BE PLACED UNTIL THE POST-TENSIONING TENDONS AND REINFORCEMENT LOCATIONS HAVE BEEN INSPECTED AND APPROVED BY THE TESTING AGENCY.
- C. THE CONTRACTOR SHALL SUBSTANTIATE CONCRETE STRENGTH BEFORE POST-TENSIONING AND STRESSING SHALL BEGIN WITHIN 24 HOURS FROM THE TIME THAT THE CONCRETE ATTAINS THE INDICATED STRENGTH. POST-TENSIONED CONCRETE SLABS SHALL REMAIN UNSTRESSED UNTIL THE SLAB IS STRESSED.
- D. POST-TENSIONED FORCES SPECIFIED ON THE CONSTRUCTION DRAWINGS ARE EFFECTIVE FORCES AFTER ALL LOSSES ARE ACCOUNTED FOR.
1. POST-TENSIONING SUPPLIER SHALL DETERMINE TENDON LOSSES IN ACCORDANCE WITH ACI 318 AND SHALL PROVIDE SUFFICIENT CALL TO DEVELOP FINAL EFFECTIVE FORCES AS INDICATED ON THE STRUCTURAL DRAWINGS.
- E. TENDONS SHALL BE STRESSED TO A MAXIMUM OF 80% OF F_{pu} WHILE ANCHORAGE STRESSES SHALL BE A MAXIMUM OF 70% OF F_{pu} . HOWEVER, STRESSES SHALL NOT BE GREATER THAN THE MAXIMUM VALUE RECOMMENDED BY THE MANUFACTURER OF THE POST-TENSIONING STEEL OR ANCHORAGE DEVICES.
- F. ALL POST-TENSIONED TENDONS SHALL BE STRESSED TO THE FOLLOWING:
- G. SLAB TENDONS FOR FORCES SHOWN IN KIPS ARE TO BE PLACED UNIFORMLY IN A BAND WIDTH ON EACH SIDE OF A COLUMN. PLACE EITHER TWO OR THREE TENDONS THROUGH A COLUMN SO THAT HALF OF THE REMAINING TENDONS ARE EQUAL ON EACH SIDE OF THE COLUMN.
- H. SLAB TENDONS FOR FORCES SHOWN IN KIPS/FT ARE TO BE PLACED UNIFORMLY BETWEEN INDICATED WIDTHS. AT LEAST TWO TENDONS SHALL PASS THROUGH EACH COLUMN.
- I. ALL POST-TENSIONED SLAB THICKNESSES ARE AS MARKED ON THE CONSTRUCTION DRAWINGS.
- J. AT DEAD ENDS AND STRESSING ENDS, TENDON CENTER OF GRAVITY SHALL BE AT CENTROID OF THE MEMBER, UNLESS NOTED OTHERWISE.
- K. POST-TENSIONED SLABS ARE DESIGNED BASED ON TENDONS BEING CONTINUOUS BETWEEN EDGES OF SLABS AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY ADDITIONAL INTERMEDIATE STRESSING JOINTS OR CLOSURE STRIPS REQUIRED BY THE CONTRACTOR MAY REQUIRE ADDITIONAL REINFORCEMENT AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL BEFORE STARTING CONSTRUCTION.
- L. COORDINATION OF THE DETAILING AND PLACEMENT OF TENDONS AND MILD REINFORCEMENT STEEL BETWEEN SUPPLIERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
1. PLACE TOP REINFORCEMENT BARS UNIFORMLY IN A WIDTH EQUAL TO THE COLUMN WIDTH PLUS ONE AND A HALF TIMES THE SLAB THICKNESS ON EACH SIDE OF THE COLUMN. PLACE A MINIMUM OF THREE OR FOUR BARS THROUGH THE COLUMN SO THAT THE REMAINING BARS ARE EQUAL ON EACH SIDE OF THE COLUMN, WHERE NOT SHOWN OR CALLED OUT, PROVIDE THE SAME REINFORCEMENT AS SHOWN OR AS CALLED OUT FOR AT AREAS WITH SIMILAR CONDITIONS.
 2. BOTTOM BARS SHALL BE CENTERED IN SPAN, UNLESS NOTED OTHERWISE.
 3. PLACE TENDONS IN SMOOTH PARABOLIC DRAPES BETWEEN HIGH AND LOW POINTS SHOWN, UNLESS NOTED OTHERWISE.
 4. TENDON LOW POINTS SHALL BE AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
 5. OTHER TENDON CONTROL POINTS SHOWN ON THE STRUCTURAL DRAWINGS ARE DIMENSIONS TO THE CENTER OF GRAVITY FROM THE BOTTOM OF THE MEMBER, UNLESS NOTED OTHERWISE.
 6. PROVIDE CHAIRS AND SUPPORT BARS AS REQUIRED TO HOLD TENDONS IN THE CORRECT POSITION DURING PLACEMENT OF CONCRETE.
 7. TENDONS SHALL NOT DEVIATE FROM THEIR CORRECT POSITION BY MORE THAN ONE-EIGHTH OF AN INCH. SLIGHT DEVIATIONS IN TENDON SPACING WILL BE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OPENINGS, INSERTS, ETC.
 8. SHOULD CONFLICT ARISE BETWEEN TENDONS, MILD REINFORCEMENT STEEL, OR OTHER CONDUITS, TENDON LOCATIONS SHALL TAKE PRECEDENCE.
- M. CONTRACTOR SHALL CONDUCT CONTINUOUS INSPECTION AND RECORDING OF JACKING FORCES AND ELONGATIONS WHICH ARE TO BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE PRIOR TO THE REMOVAL OF EXCESS TENDON END MATERIAL.
- N. EXCESS TENDON END MATERIAL SHALL BE REMOVED ONLY BY A PLASMA CUTTER OR AN ACCEPTED SUBSTITUTION BY THE STRUCTURAL ENGINEER OF RECORD. NO TORCH CUTTING IS PERMITTED. TENDON ENDS SHALL NOT BE CUT UNTIL THE ENTIRE SLAB HAS BEEN SATISFACTORILY STRESSED AND THE STRUCTURAL ENGINEER OF RECORD HAS REVIEWED THE ELONGATIONS.
- O. FOLLOWING REMOVAL OF EXCESS TENDON END MATERIAL, GREASE CAPS SHALL BE PLACED IN ACCORDANCE WITH THE POST-TENSIONING SUPPLIER. THE POST-TENSIONING SUPPLIER SHALL INSPECT AND PROVIDE A SIGNED AND SEALED LETTER FROM A STRUCTURAL ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, STATING THAT THE CORROSION PROTECTION SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED DOCUMENTS.
- P. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED:
1. DETAILED DESIGN OF TENDON END ANCHORAGES.
 2. THE CALCULATION OF STRESS LOSSES DUE TO CREEP, SHRINKAGE, TENDON RELAXATION, ANCHORAGE SLIP, AND FRICTION.
 3. POST-TENSIONED SHOP DRAWINGS.

SLAB-ON-GROUND

- A. THE SLAB-ON-GROUND HAS BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- B. SLAB THICKNESSES AND REINFORCEMENT ARE BASED ON A MODULUS OF SUBGRADE REACTION OF [] PCF PER THE GEOTECHNICAL INVESTIGATION REPORT OR AN ASSUMED VALUE OF 50 PCF.
- C. SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- D. FOR INTERIOR SLABS, PLACE A 10-MIL MINIMUM VAPOR RETARDER BETWEEN THE SOIL AND BOTTOM OF SLAB. SEE CAST-IN-PLACE CONCRETE SPECIFICATIONS FOR APPROVED VAPOR RETARDER PRODUCTS/MANUFACTURERS. DO NOT USE VAPOR RETARDERS AT EXTERIOR SLABS. SEE ARCHITECTURAL CONTRACT DOCUMENTS FOR PROJECT SPECIFIC REQUIREMENTS.
- E. IF THE SLAB-ON-GROUND HAS BEEN DESIGNATED AS A STRUCTURAL SLAB-ON-GROUND IN THE CONTRACT DOCUMENTS, NO SAW CUTTING OF THE SLAB IS PERMITTED.
- F. CONTRACTION JOINTS SHALL BE CUT INTO THE SURFACE OF THE SLAB. IN EACH DIRECTION, SEE THE TYPICAL SAW CUT JOINT DETAIL FOR TIME, DEPTH, AND SPACING OF JOINT REQUIREMENTS UNLESS NOTED OTHERWISE. CONTRACTION JOINTS SHALL BE CONSTRUCTED SUCH THAT THE AREA CONTAINED BY THE CONTRACTION JOINTS HAS A MAXIMUM RATIO OF LONG SIDE TO SHORT SIDE OF 1.5 TO 1 UNLESS NOTED OTHERWISE. DO NOT CONSTRUCT CONTRACTION JOINTS SUCH THAT L-SHAPED SLAB PANELS ARE CREATED.
- G. COLUMN ISOLATION JOINTS SHALL BE CONSTRUCTED PER THE TYPICAL COLUMN ISOLATION JOINT DETAIL IN ORDER TO PROVIDE ADEQUATE SPACE FOR COLUMN INSTALLATION.
- H. CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. SLAB CONSTRUCTION JOINTS SHALL BE DOWELED.
- I. WHERE SPECIFIED ON PLAN, WELDED WIRE REINFORCEMENT SHALL BE INSTALLED. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAINED SUCH THAT IT IS LOCATED AT A DEPTH OF 1 1/2" FROM THE TOP OF SLAB.
- J. REFERENCE ARCHITECTURAL AND MEP DOCUMENTS FOR SLAB FINISHES AND SLOPES NOT REFERENCED ON THE STRUCTURAL DOCUMENTS, THE MINIMUM SLAB THICKNESS SPECIFIED IN THE CONTRACT DOCUMENTS MUST BE MAINTAINED.
- K. REFERENCE ARCHITECTURAL DOCUMENTS FOR VAPOR RETARDER AND SLAB AND CONTRACTION JOINT SEALANT REQUIREMENTS.
- L. CONDUITS SHALL NOT BE PLACED WITHIN THE SLAB. CONDUITS SHALL BE PLACED BENEATH THE SLAB.

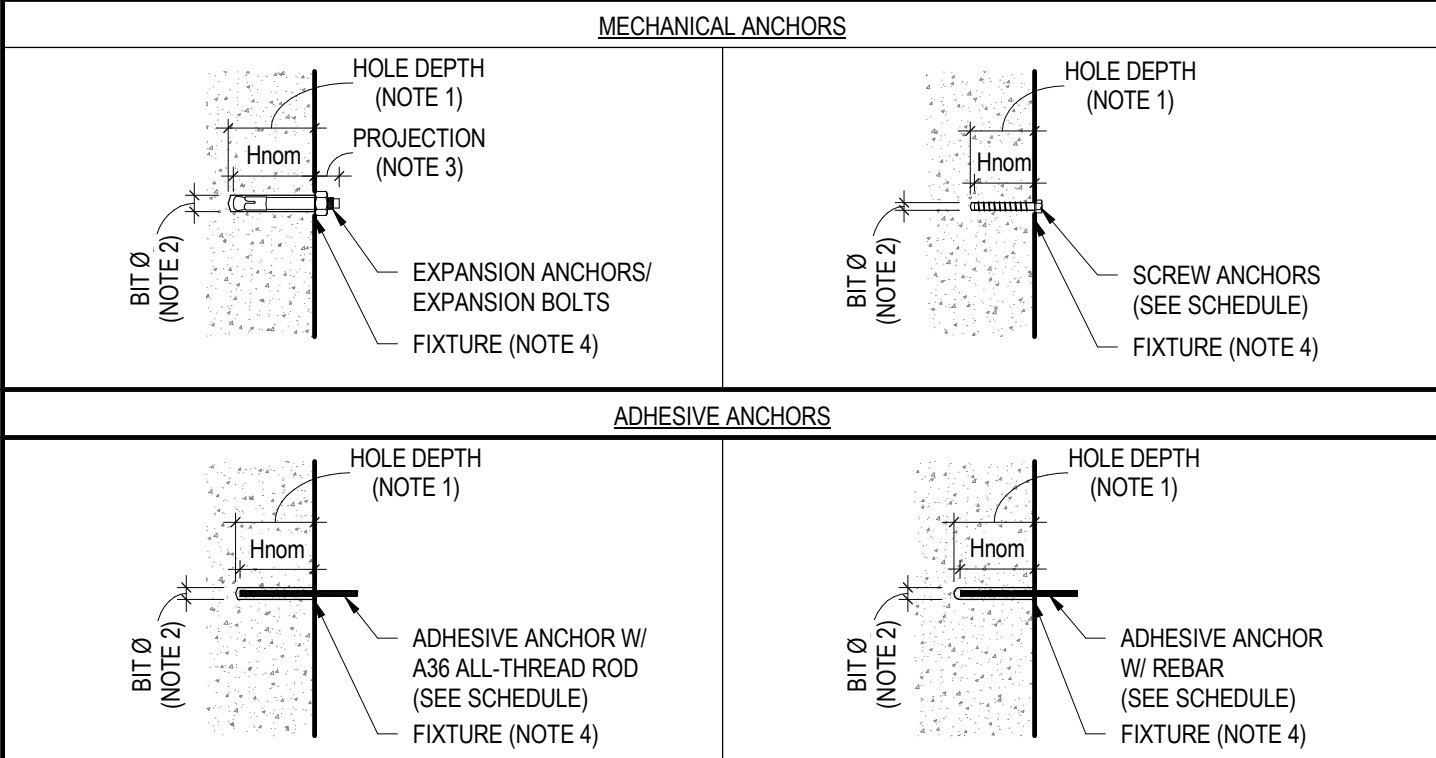
POST-INSTALLED ANCHORS SPECIFIED PRODUCTS BY APPLICATION

MECHANICAL	ANCHOR TYPE	CONCRETE	CONCRETE MASONRY
MECHANICAL	EXPANSION ANCHORS/ EXPANSION BOLTS	HLTI KWIK BOLT TZ SIMPSON STRONG-BOLT 2 DEWALT POWER-STOP- SD02	HLTI KWIK BOLT 3 SIMPSON STRONG-BOLT 2 DEWALT POWER-STOP- SD01
	SCREW ANCHORS	HLTI HUS-EZ SIMPSON TITEN HD DEWALT SCREW-BOLT+	HLTI HUS-EZ SIMPSON TITEN HD DEWALT SCREW-BOLT+
ADHESIVE	ADHESIVE ANCHORS (EPOXY ANCHORS) WITH A36 ALL-THREAD ROD	HLTI HIT-HIT200 SIMPSON SET-36 DEWALT PURE110+ OR PURE220+	HLTI HIT-HIT270 SIMPSON SET-36 DEWALT AC108+ GOLD
	ADHESIVE ANCHORS (EPOXY ANCHORS) WITH REBAR	HLTI HIT-HIT200 SIMPSON SET-36 DEWALT PURE110+ OR PURE220+	

NOTES:

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCEMENT. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS.
2. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT OR BETTER DESIGN PERFORMANCE AS REQUIRED BY THE REFERENCED BUILDING CODE.
3. ALTERNATE PRODUCTS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL SHALL HAVE A VALID RESEARCH REPORT, ALSO SUBMITTED, INDICATING COMPLIANCE WITH APPROPRIATE ACCEPTANCE CRITERIA REQUIRED BY THE REFERENCED BUILDING CODE FOR THE INTENDED LOAD TYPE AND USE (E.G., WIND, SEISMIC, SUSSTAINED TENSION, ETC.). RESEARCH REPORTS SHALL BE ISSUED BY A SOURCE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
4. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS AND/OR EVALUATION REPORT, UNLESS MORE SPECIFIC REQUIREMENTS ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

POST-INSTALLED ANCHORS INSTALLATION REQUIREMENTS



NOTES:

1. POST-INSTALLED ANCHORS ARE SPECIFIED BY THE NOMINAL EMBEDMENT (h_{dev}) INDICATED IN MANUFACTURERS LITERATURE. INCREASE THE HOLE DEPTH AS REQUIRED BY THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS FOR THE SPECIFIED ANCHOR SIZE AND EMBEDMENT.
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CONCRETE MASONRY

- A. MANUFACTURE AND INSTALL ALL CONCRETE MASONRY IN ACCORDANCE WITH DIVISION 04 SPECIFICATIONS. ALL MASONRY DESIGN SHALL CONFORM TO TMS 602 AND ALL MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602.
- B. ALL LOAD-BEARING, NON-LOAD-BEARING, AND BACKUP WALL CONCRETE MASONRY UNIT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS:
- 1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT (135 PCF)
 - 2. MORTAR: ASTM C270, TYPE 'S' OR 'M' PORTLAND CEMENT/LIME ONLY (USE TYPE 'M' MORTAR WHEN MASONRY IS IN DIRECT CONTACT WITH SOIL; TYPE 'S' IS IN ALL OTHER CONDITIONS)
 - 3. GROUT: ASTM C476
 - 4. PORTLAND CEMENT: ASTM C150, TYPE I (TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION)
 - 5. HYDRATED LIME: ASTM C207, TYPE 'S'
 - 6. AGGREGATE: ASTM C404 (FOR GROUT)
 - 7. STEEL REINFORCEMENT: ASTM A615, GRADE 60
 - 8. JOINT REINFORCEMENT: ASTM A1064, TRUSS OR LADDER TYPE, GALVANIZE PER ASTM A153, TYPE B-2
- C. CONCRETE MASONRY UNITS:
- 1. F_u SHALL BE **3000** PSI; MINIMUM NET AREA CMU COMPRESSIVE STRENGTH SHALL BE **2000** PSI.
 - 2. LAY CONCRETE MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE WITH UNITS DESIGNED TO ALIGN WITH WEBS IN EACH COARSE.
- D. MORTAR:
- 1. HEAD AND BED JOINTS SHALL BE 3/8 INCHES FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PLASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING 1/4 INCHES OR MORE INTO CELLS TO BE GROUTED.
 - 2. PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.
- E. GROUT:
- 1. MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF **3000** PSI AT 28-DAYS.
 - 2. GROUT MIX SHALL CONTAIN PORTLAND CEMENT, AGGREGATE, AND A GROUT-ENHANCING SHRINKAGE-COMPENSATING ADMIXTURE.
 - 3. MAXIMUM SIZE OF AGGREGATE SHALL BE 3/8 INCH. SLUMP SHALL BE 8 TO 11 INCHES. WATER REDUCING ADMIXTURES MAY BE USED.
 - 4. GROUT ALL MASONRY CONTAINING REINFORCEMENT, **(ALL CELLS OF 4-HOUR RATED WALLS)** AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF THE CELLS CONTAINING REINFORCEMENT TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LET GROUTING, USE 5'-0" MAXIMUM LIFTS, WITH 1/2 HOUR TO 1 HOUR BETWEEN LIFTS.
 - 5. GROUT SHALL BE VIBRATED WHILE PLACING TO ENSURE THAT CELLS ARE COMPLETELY FILLED.
- F. STEEL REINFORCEMENT:
- 1. PROVIDE VERTICAL REINFORCEMENT IN CELLS OF CONCRETE MASONRY UNITS (FULLY EMBEDDED IN GROUT) AS SHOWN ON THE PLANS AND OTHER DETAILS. MINIMUM REINFORCEMENT OF EXTERIOR MASONRY SHALL BE AS FOLLOWS:
 - a. 1-#5 AT A MAXIMUM SPACING OF 48 INCHES
 - b. 1-#5 AT EACH CORNER
 - c. HEAVIER REINFORCEMENT MAY BE REQUIRED BY PLAN NOTES OR DETAILS IN THE DRAWINGS.
 - 2. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET.
 - 3. ALL VERTICAL REINFORCEMENT SHALL HAVE STANDARD HOOK INTO BOND BEAM. TERMINATE AT HIGHEST BOND BEAM IF MASONRY DOES NOT EXTEND TO ROOF OR GROUTED CELL IS NOT CONTINUOUS TO ROOF. HOOK SHALL EXTEND TO THE UPPERMOST HORIZONTAL REINFORCEMENT OF THE BOND BEAM AND HAVE A MINIMUM EMBEDMENT OF 6 INCHES.
 - 4. ALL HORIZONTAL REINFORCEMENT AT ENDS OF BOND BEAMS SHALL HAVE STANDARD HOOK INTO VERTICAL GROUTED CELL. PROVIDE CORNER BARS SUCH THAT HORIZONTAL REINFORCEMENT IS CONTINUOUS AROUND CORNERS.
 - 5. COVER TO STEEL REINFORCEMENT WITHIN MASONRY ELEMENTS SHALL NOT BE LESS THAN THE FOLLOWING:
 - a. EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES (5 AND SMALLER BARS), 2 INCHES (#6 AND LARGER BARS)
 - b. NOT EXPOSED TO EARTH OR WEATHER: 1 1/4 INCHES
- G. JOINT REINFORCEMENT:
- 1. JOINT REINFORCEMENT SHALL BE LADDER TYPE, **(9 GAUGE)** SPACED VERTICALLY AT EVERY 2 COURSES UNLESS NOTED OTHERWISE.
 - 2. PROVIDE JOINT REINFORCEMENT SPACED VERTICALLY AT EVERY COURSE FOR MASONRY BELOW GRADE AND IN PARAPETS AND CANTILEVERED WALLS.
 - 3. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT TOP AND BOTTOM OF OPENINGS (EXTEND 24 INCHES EACH SIDE).
 - 4. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT BOND BEAMS.
 - 5. OVERLAP DISCONTINUOUS JOINT REINFORCEMENT BY AT LEAST 6 INCHES.
 - 6. USE PREFABRICATED CORNERS AND TEES.
 - 7. EXTEND JOINT REINFORCEMENT A MINIMUM OF 4 INCHES INTO THE TIE BEAM.
 - 8. REFER TO PLANS AND DETAILS FOR BONDED JOINT REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS, WHERE INDICATED ON DRAWINGS, INTERLOCK WALLS WITH METAL TIES, ANCHORS, OR PREFABRICATED JOINT REINFORCEMENT UNLESS NOTED OTHERWISE ON DRAWINGS OR SEE SPECIFICATIONS.
 - 9. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A MINIMUM HORIZONTAL EDGE COVER OF 5/8 INCHES WHEN EXPOSED TO EARTH AND WEATHER AND 1/4 INCHES WHEN NOT EXPOSED TO EARTH OR WEATHER.
- H. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH TMS 602.
- I. WHERE ANCHOR BOLTS, EXPANSION ANCHORS, OR ANCHORS SET IN EPOXY ARE PLACED IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
- J. USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
- K. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
- L. REFER TO ARCHITECT'S DRAWINGS FOR THE EXTENT OF MASONRY WALLS AND DIMENSIONED LOCATION OF OPENINGS. NON-LOAD BEARING WALLS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
- M. CONCRETE MASONRY UNITS SHALL BE CUT BELOW BEAMS, LINTELS, OR BOND BEAMS AS REQUIRED IN ORDER TO SET CONTINUOUS BEAM, LINTEL, OR BOND BEAMS AT THE PROPER ELEVATION.
- N. ALL CELLS BELOW GRADE AND SLAB-ON-GROUND SHALL BE FULLY GROUTED.
- O. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN MASONRY SHALL BE ADHERED TO (SEE MEP DRAWINGS FOR LOCATIONS OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC). THESE CRITERIA WILL BE STRICTLY ENFORCED:
- 1. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO MASONRY AND MEETING THE CRITERIA BELOW SHALL BE PERMITTED TO BE EMBEDDED IN MASONRY. ALL OTHER CONDUITS, PIPES, AND SLEEVES SHALL NOT BE EMBEDDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
 - 2. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL MASONRY.
 - 3. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A WALL SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION. CONDUITS, PIPES, AND SLEEVES SHALL NOT PASS THROUGH JAMBS, LINTELS, BOND BEAMS, OR SHEAR WALLS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
 - 4. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.
 - 5. CONDUITS AND PIPES SHALL BE FABRICATED AND INSTALLED SO THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
 - 6. CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN OR WALL, SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET SECTION OR AS REQUIRED BY FIRE PROTECTION.
- P. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY ASSUMING FULL BRACING TOP, BOTTOM, AND/OR SIDE OF WALL AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY AND ADEQUATELY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD OCCUR PRIOR TO THE COMPLETION OF CONSTRUCTION.
- Q. CONTRACTION JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION. REFER TO TYPICAL CONTRACTION JOINT DETAIL FOR GUIDELINES AND SPACING.

CMU - REINFORCEMENT SPLICES ¹					
BAR WITH SPLICE	VERTICAL BARS ²		HORIZONTAL BARS ³		
	1 VERTICAL	2 VERTICALS	1 VERTICAL 1 HORIZONTAL	2 VERTICALS 1 HORIZONTAL	1 VERTICAL 2 HORIZONTALS 2 HORIZONTALS
#4	21"	26"	21"	21"	26"
#5	26"	40"	29"	26"	40"
#6	43"	74"	57"	43"	74"
#7	60"	107"	81"	60"	107"
					NOTE 5

NOTES:

- SEE TYPICAL REBAR LAYOUT DETAIL FOR BAR PLACEMENT. WHERE BARS OF DIFFERENT SIZES ARE TO BE SPLICED, THE SPLICE LENGTH SHALL BE THAT REQUIRED FOR THE LARGER BAR.
- SPLICES OF VERTICAL REINFORCEMENT SHALL BE PLACED NEXT TO THE MAIN BAR AS INDICATED IN THE ILLUSTRATION.
- SPLICES OF HORIZONTAL REINFORCEMENT SHALL BE PLACED VERTICALLY OVER THE MAIN BAR.
- SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TOW BARS PER COURSE SHALL BE STAGGERED.
- 8" CMU WALL IS NOT WIDE ENOUGH TO PERMIT THIS CONDITION.

WATERFORD CAMPUS
IL BUILDING

601 UNIVERSE BLVD. JUNO BEACH, FL 33408



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DEVELOPMENT

Project No.: 2021009
Date: 08/22/2025

CMU
GENERAL
NOTES &
SCHEDULES



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JG Project #: 21.18.004

TO THE BEST OF THE ENGINEER'S
KNOWLEDGE, THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE BUILDING CODES AND
MATERIAL SPECIFICATIONS.

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STRUCTURAL STEEL

- A. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS:
1. ROLLED SHAPES AND CHANNELS: ASTM A572 OR A992, MIN. YIELD STRENGTH 50 KSI
 2. ANGLES FOR TRUSSES AND BRACES: ASTM A36 MIN YIELD STRENGTH 36 KSI
 3. MISCELLANEOUS ANGLES: ASTM A36
 4. HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE C, MIN YIELD STRENGTH 46 KSI FOR ROUND AND 50 KSI FOR RECTANGULAR HSS
- B. CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:
1. ANGLES: ASTM A36
 2. WTS: ASTM A992
 3. PLATES: ASTM A572, MIN YIELD STRENGTH 50 KSI
 4. BOLTS: ASTM A325
 5. NUTS: ASTM A363
 6. WASHERS: ASTM F436
 7. ANCHOR RODS: ASTM F1554 GRADE 55 WITH WELDABILITY SUPPLEMENT S1
 8. WELD ELECTRODES: MATCH FILLER METAL TO BASE METAL PER AWS D1.1
- C. WHERE NO CAMBER IS INDICATED, FABRICATE BEAMS SO THAT ANY NATURAL CAMBER IS UPWARD AFTER ERECTION.
- D. CANTILEVERED BEAMS WITH NATURAL MILL CAMBER SHALL BE ERECTED SUCH THAT THE CAMBER IS ORIENTED DOWNWARD OR CONCAVE UP.
- E. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE SER IN WRITING.
- F. FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER, PROVIDE HOT-DIPPED GALVANIZED FINISH. PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1 1/8" DIA. AND SHALL BE GROUND SMOOTH. THESE DRAINS MUST BE KEPT CLEAN AND OPEN.
- H. SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.
- I. FIELD MODIFICATIONS OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- J. WHERE BEAM SHEAR IS NOT NOTED, DESIGN FOR 10K.
- K. ALL CONNECTIONS SHALL BE DESIGNED FOR THE SPECIFIED SHEAR, MOMENT, AND AXIAL LOADS ON THE DRAWINGS. THE CONNECTIONS SHALL BE DESIGNED FOR LOAD REVERSAL. ALL CONNECTIONS FORCES SPECIFIED ON PLAN ARE ULTIMATE LEVEL FORCES UNLESS NOTED OTHERWISE.
- L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, AND FABRICATION OF ALL STEEL FRAMING CONNECTIONS UNLESS SPECIFICALLY NOTED AS COMPLETELY DESIGNED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, WHO SHALL DESIGN THE CONNECTIONS, SUBMIT SIGN AND SEALED CALCULATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO STARTING FABRICATION.
- M. CONNECTION DESIGN SHALL MEET THE REQUIREMENTS OF THE AISI SPECIFICATIONS AND THE BUILDING CODE. CONNECTIONS SHALL BE CAPABLE OF RESISTING VERTICAL AND HORIZONTAL LOADS LISTED ON THE DRAWINGS. CONNECTION DESIGN SHALL PROVIDE AN ADEQUATE LOAD PATH TO TRANSFER THE LOADS FROM EACH MEMBER, THROUGH THE CONNECTION, INTO THE SUPPORTING MEMBER, AND SHALL CONSIDER THE EFFECTS OF THE FORCES ON EACH MEMBER. PROVIDE STIFFENER PLATES, WEB DOUBLER PLATES, FLANGE CONTINUITY PLATES, ETC, AS REQUIRED. MEMBERS SHOWN ON THE DRAWINGS HAVE NOT BEEN SIZED FOR LOCAL EFFECTS AT CONNECTIONS.
- N. STEEL CONNECTION DETAILS SHOW GENERAL CRITERIA FOR DESIGN AND DETAILING, AND ARE NOT INTENDED TO SHOW COMPLETE CONNECTION CONFIGURATIONS OR OTHER SPECIFIC INFORMATION THAT ARE THE RESPONSIBILITY OF THE CONNECTION DESIGN ENGINEER. ALTERNATIVE CONNECTION CONFIGURATION MAY BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. CONNECTIONS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS ARE TO BE FABRICATED AS SHOWN.
- O. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS THAT INCLUDE, BUT ARE NOT LIMITED TO ERECTION ANGLES, LIFT HOLES, AND OTHER AIDS.
- P. STEEL BEAMS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS AT THE MAXIMUM DECK SPAN LOCATION UNLESS NOTED OTHERWISE. MINIMUM CONNECTIONS SHALL BE A TWO-BOLT CONNECTION USING 3/4 INCH- DIAMETER A325 BOLTS IN SINGLE SHEAR UNLESS NOTED OTHERWISE. ALL HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED, AND INSPECTED IN ACCORDANCE WITH THE RCSC. BOLTS IN CONNECTIONS SHALL BE INSTALLED WITH FULL PRETENSION EXCEPT WHERE "SNUG-TIGHT" INSTALLATION IS SPECIFICALLY PERMITTED ON THE DRAWINGS. WHERE CONNECTIONS ARE NOTED AS SNUG-TIGHT, THE CONTRACTOR MAY INSTALL PER THE CRITERIA FOR SNUG-TIGHT BOLTS. BOLTS IN SLIP-CRITICAL CONNECTIONS SHALL BE INSTALLED USING TURN-OF-NUT PRETENSIONING, TWIST-OFF TYPE TENSION CONTROL, BOLT PRETENSIONING, OR DIRECT-TENSION-INDICATOR (DTI) PRETENSIONING. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

WELDING

- A. ALL WELDING SHALL BE PERFORMED IN STRICT ADHERENCE TO A WRITTEN WELDING PROCEDURE SPECIFICATION PER AMERICAN WELDING SOCIETY D1.1. ALL WELDING PARAMETERS SHALL BE WITHIN THE ELECTRODE MANUFACTURER'S RECOMMENDATIONS. WELDING PROCEDURES SHALL BE SUBMITTED TO THE OWNER'S TESTING AGENCY FOR REVIEW BEFORE STARTING FABRICATION OR ERECTION. COPIES OF THE WELDING PROCEDURE SPECIFICATION SHALL BE ON SITE AND AVAILABLE TO ALL WELDERS AND THE SPECIAL INSPECTOR.
- B. ALL WELDS SHALL BE MADE USING LOW HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH PER AWS D1.1 (MINIMUM 70 KSI).
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOINT PREPARATIONS AND WELDING PROCEDURES THAT INCLUDE, BUT ARE NOT LIMITED TO: REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, TAPERS, AND TRANSITIONS OF UNEQUAL PARTS.
- D. WELDING SHALL BE DONE BY WELDERS WITH CURRENT AMERICAN WELDING SOCIETY CERTIFICATION.
- E. FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. WHERE SHOWN, PROPER FIELD WELDING PER AMERICAN WELDING SOCIETY D1.1 SHALL BE USED. WHERE NO FIELD WELDING SYMBOLS ARE SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS.
- F. ALL WELD SIZES SHALL BE THE LARGER OF: THE SIZE REQUIRED BY THE CONNECTION FORCES, MINIMUM SIZE PER ANS/AWS D1.1 OR 3/16 INCH MINIMUM FILLET WELD, UNLESS NOTED OTHERWISE.
- G. PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE FORCE OF THE SMALLER MEMBER AT THE JOINT, UNLESS NOTED OTHERWISE.
- H. ALL FILLET WELDS SHALL BE VISUALLY INSPECTED BY THE TESTING FIRM.
- I. GROOVE WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE.
- J. ALL COMPLETE JOINT PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED UPON COMPLETION OF THE CONNECTION, EXCEPT PLATES LESS THAN OR EQUAL TO 1/4 INCH THICK SHALL BE MAGNETIC PARTICLE TESTED. REDUCTION IN TESTING MAY BE MADE IN ACCORDANCE WITH THE BUILDING CODE WITH APPROVAL OF THE ENGINEER.
- K. A RUN-OFF TAB SHALL BE USED AT ALL BEVEL AND FULL PENETRATION WELDS. RUN-OFF TABS SHALL BE REMOVED BY NEAT CUTS AFTER WELD IS COMPLETED. GRIND SMOOTH WHERE REQUIRED BY DETAIL.
- L. WHERE REQUIRED BY DETAIL, REMOVE WELD BACKING BARS AND GRIND SMOOTH AFTER WELD IS COMPLETED.
- M. WHERE NECESSARY, REMOVE GALVANIZING OR PRIMER PRIOR TO WELDING.
- N. STEEL USING COMPLETE JOINT PENETRATION GROOVE WELDS THAT FUSE THROUGH THE THICKNESS OF THE FLANGE OR WEB SHALL HAVE A MINIMUM CHARTY V-NOTCH IMPACT TESTING VALUE AS FOLLOWS:
1. ASTM A660M HOT-ROLLED SHAPES WITH A FLANGE THICKNESS EXCEEDING 2 INCHES AND BUILT-UP HEAVY SHAPES WITH PLATES EXCEEDING 2 INCHES IN THICKNESS: 20 FT-LB AT 70° FAHRENHEIT.
 2. REGARDLESS OF THICKNESS, ALL TRUSSES, LATERAL SYSTEM MEMBERS (INCLUDING COLUMNS, WIND ORDERS, BRACES, ETC), 20 FT-LB AT 70° FAHRENHEIT.
 3. STEEL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50° FAHRENHEIT: 20 FT-LB AT SERVICE TEMPERATURE + 20° FAHRENHEIT; 40° FAHRENHEIT MAXIMUM.
 4. WELD METAL: 20 FT-LB AT -20° FAHRENHEIT AND 40 FT-LB AT 70° FAHRENHEIT.
 5. TESTING IS TO BE IN ACCORDANCE WITH ASTM A660M, SUPPLEMENTARY REQUIREMENT S30, CHARTY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES - ALTERNATE CORE LOCATION, AT ROLLED SHAPES AND ASTM A670 FOR PLATES, AT ANY PERMITTED LOCATIONS. WELD METAL SHALL BE TESTED IN ACCORDANCE WITH ASTM E23, STANDARD METHODS FOR NOTCHED BAR IMPACT TESTING OF METALLIC MATERIALS FOR WELD METAL.

STEEL DECK GENERAL REQUIREMENTS

- A. ALL STEEL DECK SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE DIVISION 05 SPECIFICATIONS.
- B. STEEL DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION), UNLESS NOTED OTHERWISE.
- C. THE CONTRACTOR SHALL COORDINATE SLAB/DECK OPENING SIZES AND LOCATIONS PER ARCHITECTURAL AND MEP CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE OPENING SUPPORT FRAMING AND/OR REINFORCEMENT AS REQUIRED PER TYPICAL DETAILS AND SUBMIT PROPOSED SLAB/DECK OPENINGS FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
- D. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING:
1. MATERIAL STRENGTH
 2. SECTION PROPERTIES
 3. DECK GAGE, LAYOUT
 4. FASTENER TYPE
 5. CONNECTION PATTERN
 6. CLOSURE ANGLES
- E. THE CAPACITY OF THE DECK SHALL BE BASED ON CURRENT ICC-ES EVALUATION REPORTS.

STEEL ROOF DECK

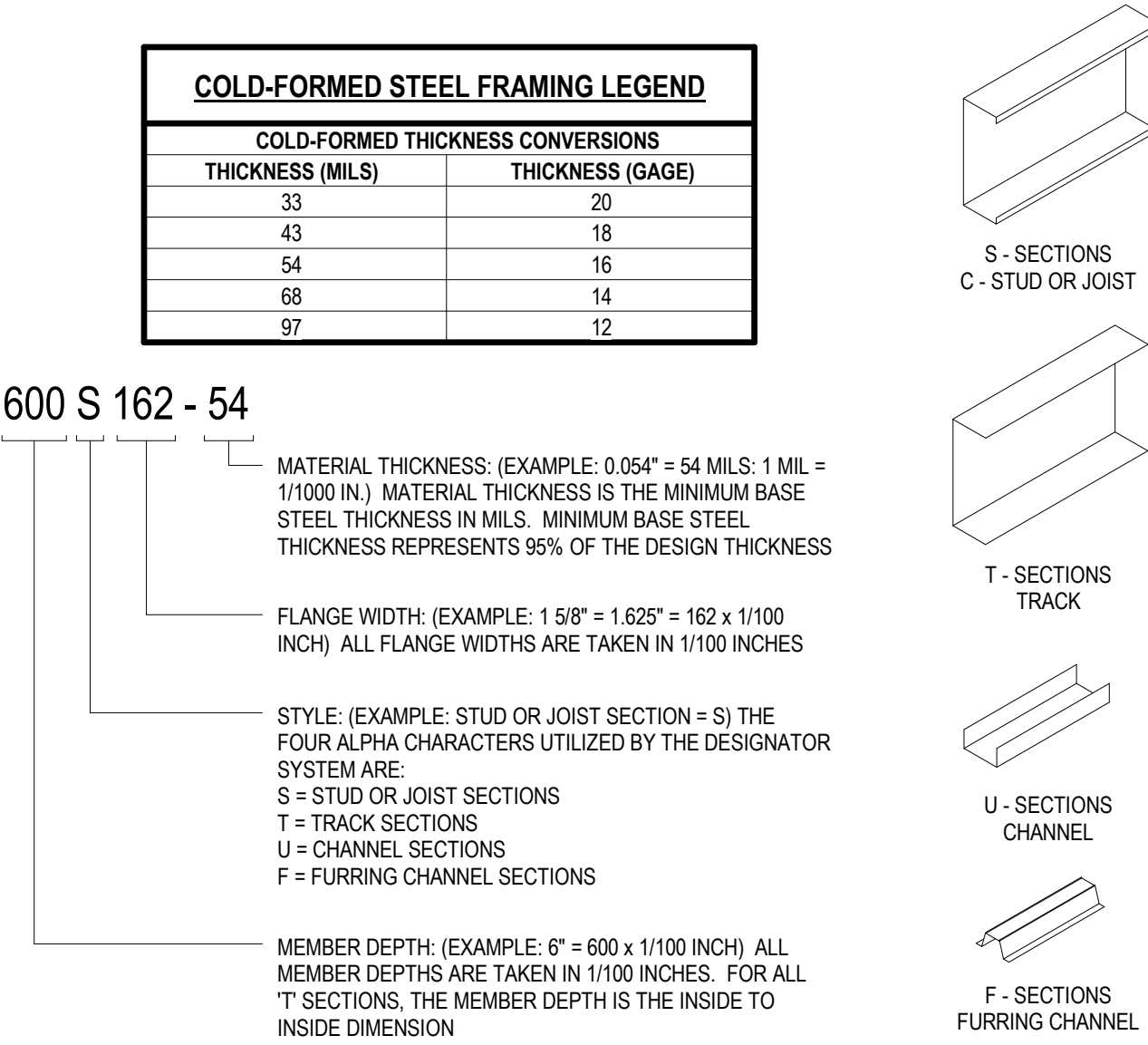
- A. STEEL ROOF DECK SHALL BE A MINIMUM YIELD STRENGTH OF 33 KSI, UNLESS NOTED OTHERWISE. ALL INTERIOR STEEL ROOF DECK SHALL CONFORM TO ASTM A1008, FACTORY PRIME FOR PAINT. ALL EXPOSED STEEL ROOF DECK SHALL CONFORM TO ASTM A653 WITH G90 HOT-DIPPED GALVANIZATION, UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- B. STEEL ROOF DECK SHALL BE ATTACHED TO STEEL SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS AND TO COLD-FORMED METAL FRAMING WITH #12 SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE. WHEN DECK THICKNESS IS LESS THAN 0.028 INCHES, WELDS MUST BE MADE THROUGH MINIMUM 16 GAGE WELDING WASHERS. SPACING OF WELDS SHALL BE AS SPECIFIED IN THE DECK ATTACHMENT SCHEDULE.
- C. WHERE STEEL MEMBERS ARE PARALLEL TO THE DECK FLUTES AND AT THE SAME ELEVATION OF THE BOTTOM OF THE DECK, ADJUST DECK LAYOUT AND WELD DECK TO STEEL WITH SAME WELDING AS REQUIRED FOR SIDE BOUNDARIES.
- D. ERECT STEEL DECK CLOSURES AND OTHER LIGHT GAGE MATERIAL REQUIRED TO PRODUCE A COMPLETED INSTALLATION.
- E. FLAT, RIDGE, AND VALLEY PLATES: UNLESS NOTED OTHERWISE, CONTRACTOR SHALL PROVIDE FLAT PLATES (20 GAGE MINIMUM) AT ALL LOCATIONS WHERE ROOF DECK CHANGES DIRECTION AND RIDGE OR VALLEY PLATES (20 GAGE MINIMUM) AT ALL LOCATIONS WHERE ROOF SLOPE EXCEEDS 1/4 INCH PER FOOT.
- F. DO NOT HANG CEILING, DUCTS, LIGHT FIXTURES, EQUIPMENT, OR OTHER ITEMS FROM THE ROOF DECK WITHOUT PRIOR APPROVAL FROM THE DECK SUPPLIER AND REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
- G. SEE ARCHITECTURAL DRAWINGS FOR FINAL ROOF SLOPES. WHERE STRUCTURAL FRAMING DOES NOT CREATE THE SPECIFIED ROOF SLOPE, IT SHALL BE CREATED WITH RIGID INSULATION ABOVE THE DECK.

NON-COMPOSITE STEEL FORM DECK

- A. NON-COMPOSITE STEEL FORM DECK SHALL BE A MINIMUM YIELD STRENGTH OF 60 KSI AND SHALL CONFORM TO ASTM A653 WITH G90 HOT-DIPPED GALVANIZATION, UNLESS NOTED OTHERWISE.
- B. NON-COMPOSITE STEEL FORM DECK SHALL BE ATTACHED TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS. WHEN DECK THICKNESS IS LESS THAN 0.028 INCHES, WELDS MUST BE MADE THROUGH MINIMUM 16 GAGE WELDING WASHERS. SPACING OF WELDS SHALL BE AS FOLLOWS:
1. AT BUTTED ENDS: AT 10 INCHES ON CENTER
 2. AT PERIMETER EDGES OF BUILDING: AT 10 INCHES ON CENTER
 3. INTERMEDIATE SUPPORTS: AT 10 INCHES ON CENTER
 4. SIDE LAPS: FOR FORM DECK WITH SPANS 3'-6" OR GREATER, PROVIDE TWO CONNECTIONS PER SPAN. HEX HEAD SCREWS, SIZE #10, OR CRIMPING (BUTTON PUNCHING) MAY BE USED AT SIDE LAP CONNECTIONS.

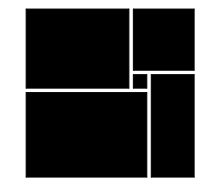
COLD-FORMED STEEL

- A. DESIGN, FABRICATION, AND ERECTION OF COLD-FORMED STEEL SHALL CONFORM TO AISI S100.
- B. ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES, AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI S100.
- C. THE CONTRACTOR'S DELEGATED ENGINEER SHALL DESIGN ALL COLD-FORMED STEEL AND ITS CONNECTIONS TO THE BUILDING STRUCTURE. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED COLD-FORMED STEEL.
- D. ALL EXTERIOR COLD-FORMED STEEL AND ITS CONNECTIONS TO THE BUILDING STRUCTURE SHALL BE DESIGNED PER DESIGN CRITERIA AND COMPONENTS AND CLADDING WIND PRESSURES LISTED IN THE STRUCTURAL DOCUMENTS.
- E. ALL INTERIOR COLD-FORMED STEEL AND ITS CONNECTIONS TO THE BUILDING STRUCTURE SHALL BE DESIGNED PER DESIGN CRITERIA LISTED IN THE GENERAL STRUCTURAL NOTES AND A MINIMUM OF 5 PSF INTERNAL PRESSURE NORMAL TO THE STRONG AXIS OF FRAMING MEMBER IN ADDITION TO DEAD LOAD.
- F. ALL EXTERIOR COLD-FORMED STEEL SHALL HAVE A MINIMUM G90 GALVANIZED COATING. ALL INTERIOR COLD-FORMED STEEL SHALL HAVE A MINIMUM G60 GALVANIZED COATING.
- G. ALL STUDS SHALL BE DESIGNED TO A MINIMUM GAUGE OF 43 MILS. STUD SPACING SHALL NOT EXCEED 24" ON CENTER.
- H. ALL COLD-FORMED STEEL, 54 MIL AND THICKER SHALL HAVE A MINIMUM YIELD STRENGTH (F_y) OF 50 KSI.
- I. ALL WELDING SHALL MEET REQUIREMENTS OF AWS D1.3 AND THE AISI STANDARD.
- J. ALL SCREWS OR PINS SHALL BE NON-CORROSIVE NO. 8-18 (Ø = 0.125") OR LARGER, UNLESS NOTED OTHERWISE. DO NOT USE STAINLESS STEEL OR COPPER-COATED FASTENERS.
- K. TRACKS SHALL BE THE SAME DEPTH AS STUDS OR JOISTS AND OF EQUAL OR THICKER GAUGE THAN STUDS OR JOISTS, UNLESS NOTED OTHERWISE. TRACKS SHALL BE CONNECTED IN ORDER TO SUPPORT STUDS OR JOISTS AT 24" ON CENTER MAXIMUM. STUDS AND JOISTS SHALL BE CONNECTED TO TRACKS AT EACH SIDE.
- L. INSTALLATION OF CURTAIN WALL FRAMING SHALL ACCOMMODATE VERTICAL DISPLACEMENT OF THE PRIMARY STRUCTURE.
- M. DESIGN OF SLIP TRACKS SHALL CONFORM TO GUIDELINES ESTABLISHED IN STEEL STUD MANUFACTURER'S ASSOCIATION TECHNICAL NOTE NO. 1, PUBLISHED JANUARY 2000.
- N. PROVIDE THE STANDARD TRACK, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED AND AS NEEDED TO PROVIDE A COMPLETE FRAMING SYSTEM. INSTALL THE FRAMING SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
- O. MATCH FILLER METAL TO BASE METAL PER AWS D1.3 FOR WELDING STEEL STUDS. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS PROCEDURES. CONSULT MANUFACTURER FOR EQUIPMENT RECOMMENDATIONS AND PROPER ELECTRODE SELECTION. TOUCH UP WELDED AREAS WITH A ZINC RICH PAINT.
- P. STUD-TO-STUD CONNECTIONS SHALL BE A MINIMUM OF (4) #8 TEK SCREWS AT EACH CONNECTION, UNLESS NOTED OTHERWISE.
- Q. RESISTANCE TO MINOR AXIS BENDING AND ROTATION SHALL BE PROVIDED BY GYPSUM BOARD, GYPSUM SHEATHING, PLYWOOD, HORIZONTAL BRACING, OR CHANNEL SHAPED COLD-FORMED STEEL FRAMING BLOCKING.
- R. SHOP DRAWINGS, INCLUDING CALCULATIONS, SHALL BE SIGNED AND SEALED BY A DELEGATED ENGINEER AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD AND ARCHITECT FOR REVIEW.
- S. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL FRAMING SIZES, CONNECTIONS, AND BRACING. IF FRAMING DEPTH IS NOT INDICATED IN THE CONTRACT DOCUMENTS, THE MOST ECONOMICAL MEMBER AND CONNECTION MEETING THE DESIGN CRITERIA SHALL BE PROVIDED.
- T. CALCULATIONS SHALL CLEARLY INDICATE DESIGN LOADING, FRAMING SIZE, SPACING, ASSUMPTIONS, AND FORCES IMPOSED ONTO BUILDING STRUCTURE FROM CONNECTIONS.
- U. STEEL STUD MANUFACTURERS ASSOCIATION FOUR PART NOMENCLATURE IDENTIFIES MEMBER DEPTH, TYPE, FLANGE WIDTH AND GAUGE.



STEEL EMBED PLATE SCHEDULE									
MARK	PLATE GEOMETRY (IN)			EDGE DISTANCE	ANCHORS (AWS D1.1, TYPE B)			COMMENTS	REFERENCE DETAIL
	WIDTH	LENGTH	THICKNESS		#	DIAMETER	LENGTH		
EDGE DISTANCE (TYP) LENGTH WIDTH EDGE DISTANCE (TYP) LAYOUT WITH 2 ANCHORS EDGE DISTANCE (TYP) LENGTH WIDTH EDGE DISTANCE (TYP) LAYOUT WITH 4 ANCHORS EDGE DISTANCE (TYP) LENGTH WIDTH EDGE DISTANCE (TYP) LAYOUT WITH 6 ANCHORS T/PLATE = T/SLAB (SEE PLAN) LENGTH (NOTE U) THICKNESS									
1. ANCHOR LENGTH INDICATED IS FINAL LENGTH AFTER BURNOFF. 2. SEE PLAN FOR LOCATION OF KEYED SECTIONS & DETAILS REFERENCING EMBED PLATES AND ATTACHMENT OF CONNECTING ELEMENTS. 3. FOR LAYOUTS WITH MORE THAN 4 ANCHORS SEE KEYED SECTIONS/DETAILS FOR ANCHOR LAYOUTS.									

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**STEEL
GENERAL
NOTES &
SCHEDULES**

S-005

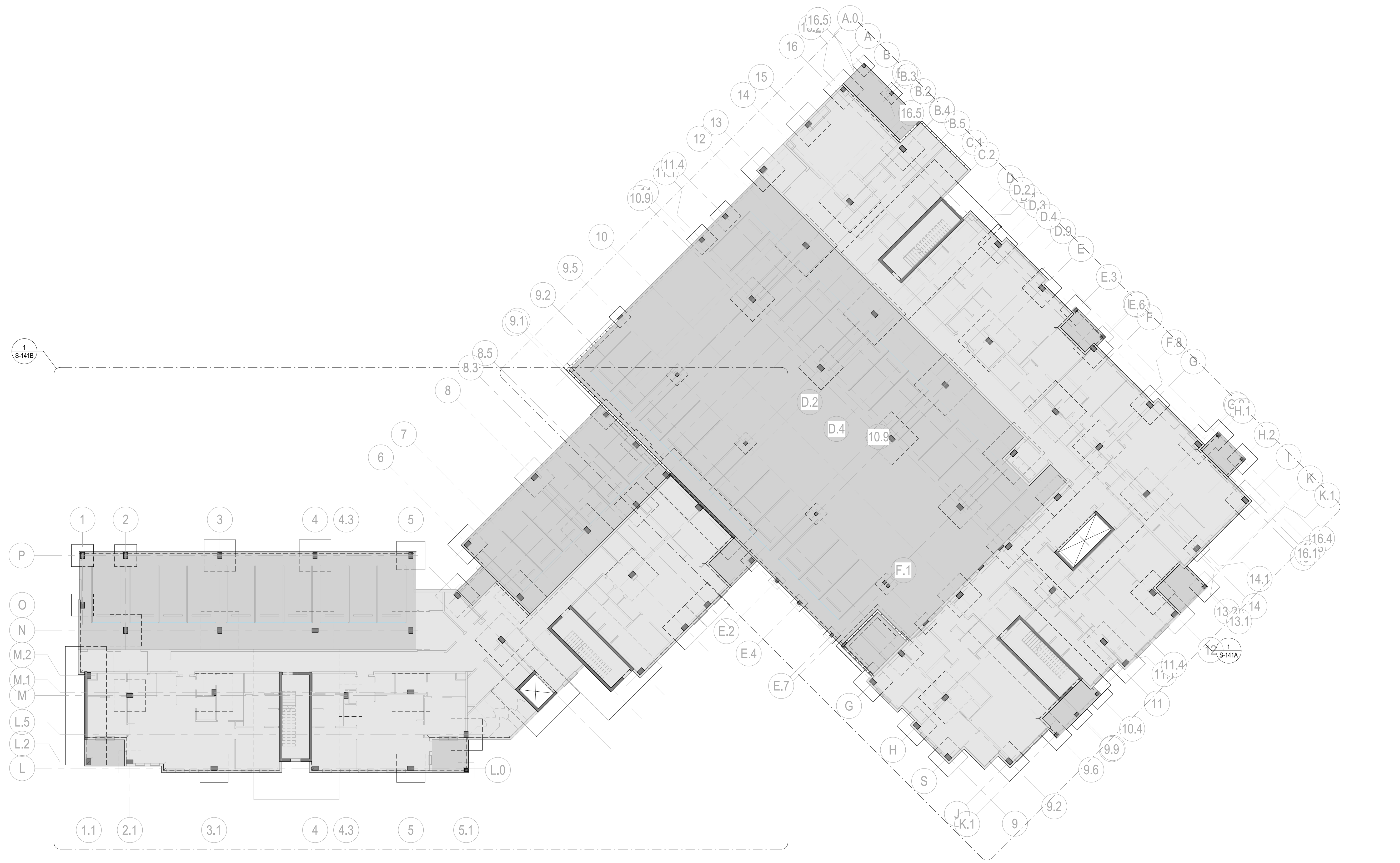


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1
S-121

OVERALL FOUNDATION PLAN

1/16" = 1'-0"



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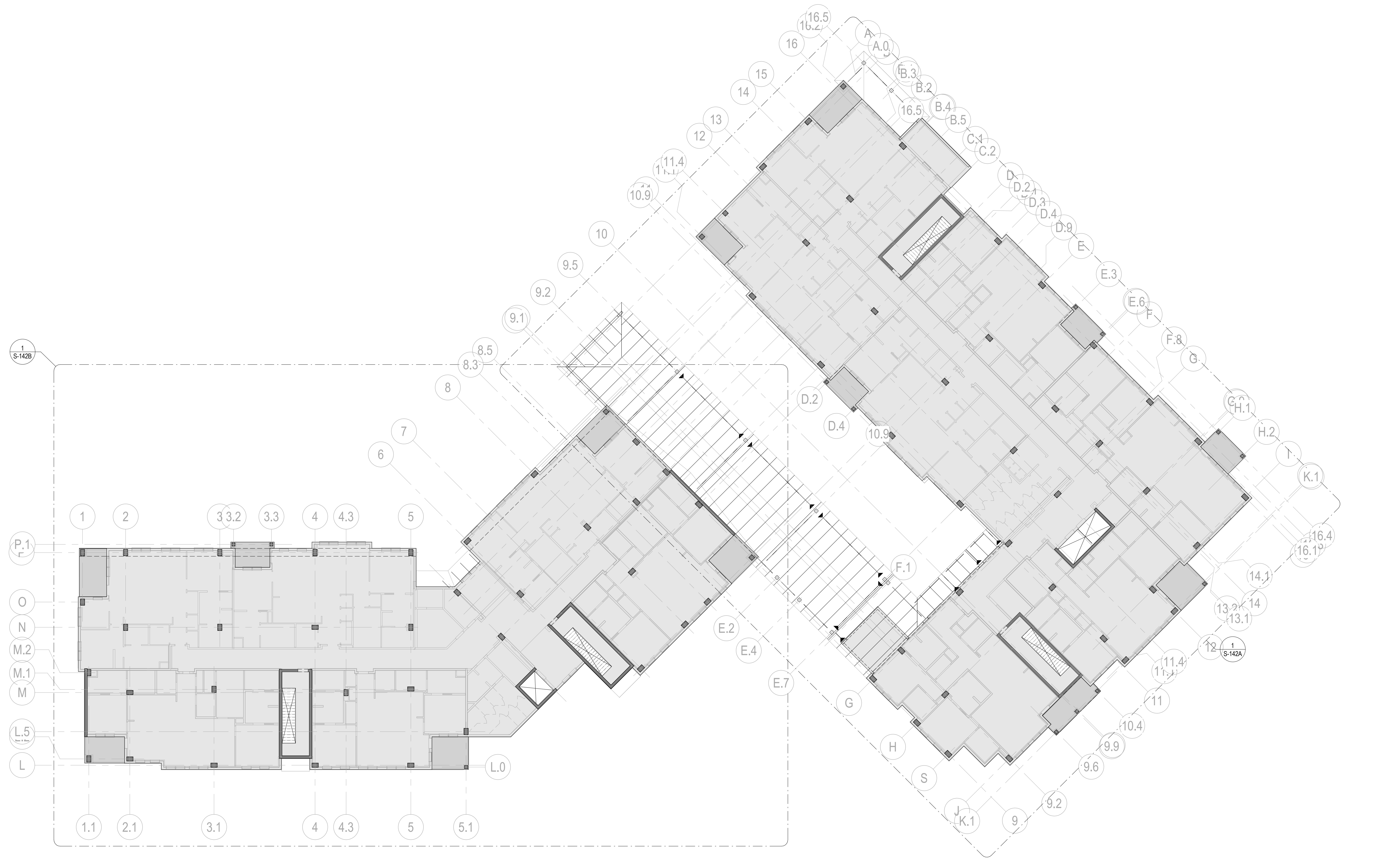
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OVERALL FOUNDATION PLAN

S-121

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S-122

OVERALL SECOND FLOOR PLAN

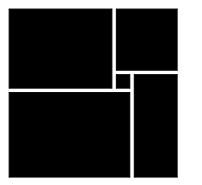
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Date: 08/22/2025

OVERALL
SECOND
FLOOR PLAN

S-122

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NO.	DATE	DESCRIPTION

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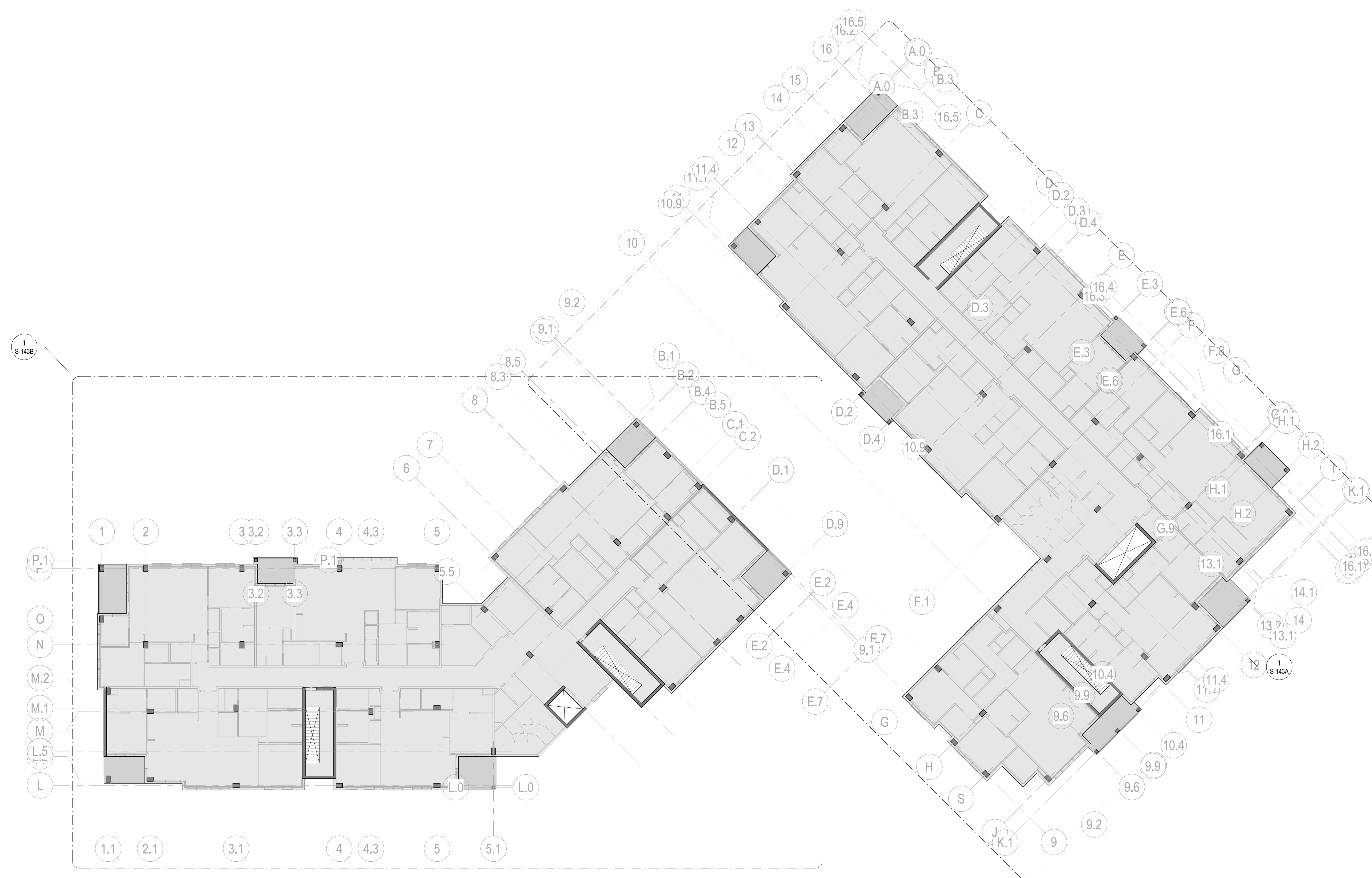
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**OVERALL
THIRD FLOOR
PLAN**

S-123



1 THIRD FLOOR FRAMING PLAN
S-123 1/16" = 1'-0"



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1
S-124

OVERALL FOURTH FLOOR PLAN

1/16" = 1'-0"

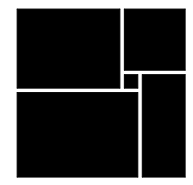


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Date: 08/22/2025

OVERALL
FOURTH
FLOOR PLAN

S-124

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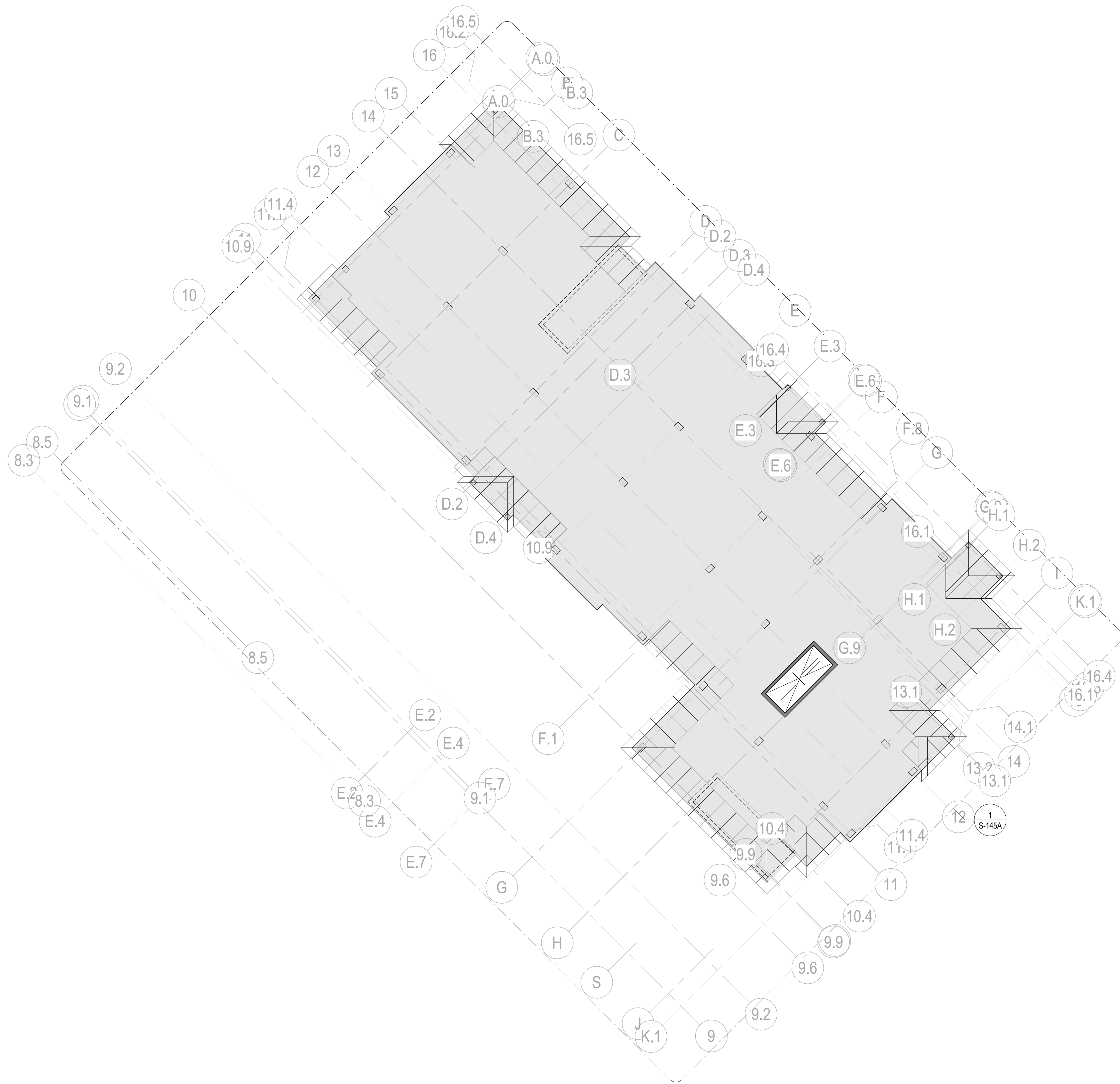
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1
S-125

OVERALL ROOF PLAN

1/16" = 1'-0"

ROOF BELOW

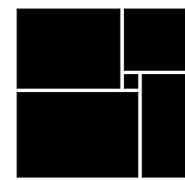


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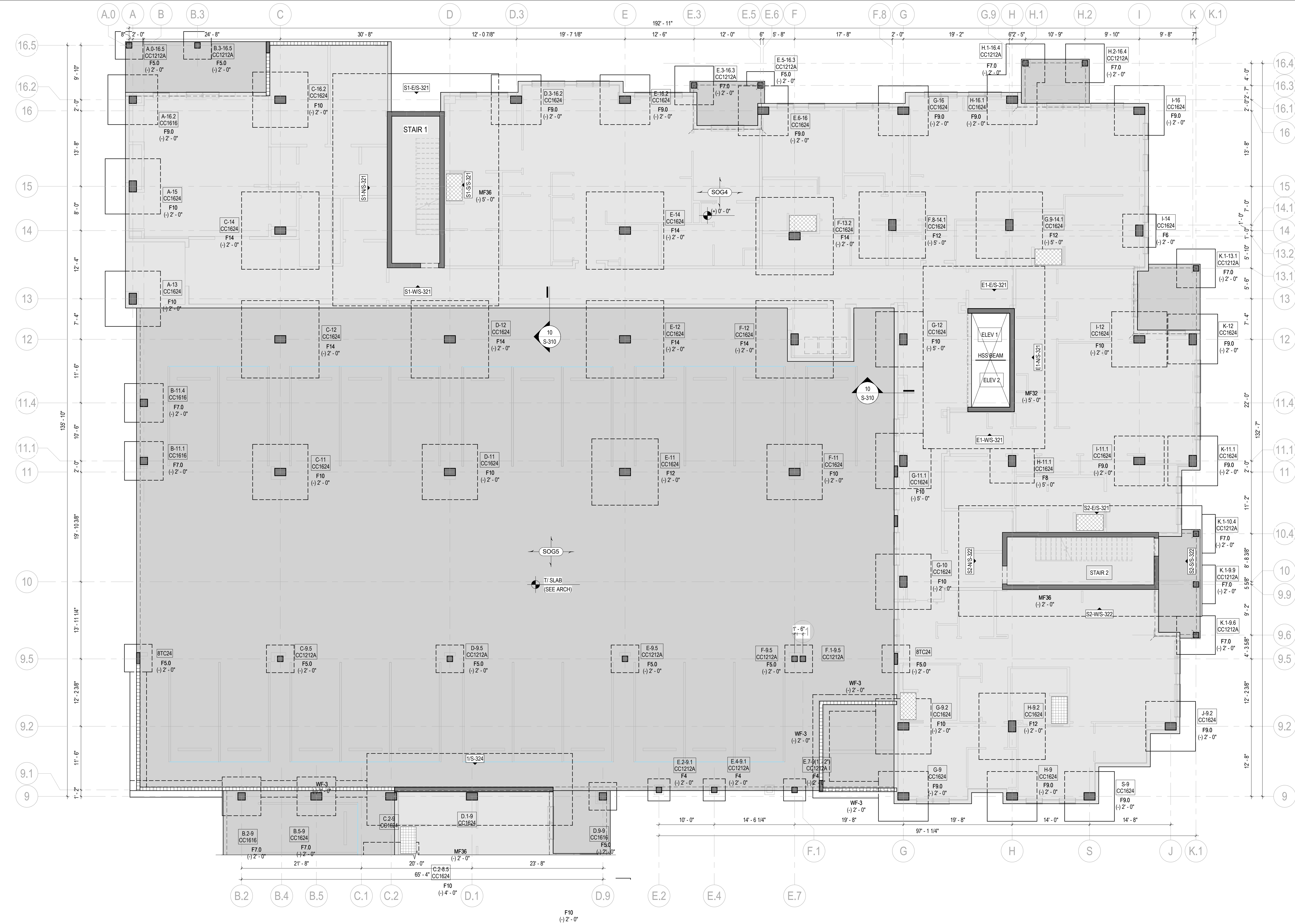
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OVERALL
ROOF PLAN

S-125

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1 S-141A PARTIAL FOUNDATION FRAMING PLAN - AREA A

FOUNDATION PLAN NOTES:

- X-# LOCATION MARK
CC#/# COLUMN MARK (SEE SCHEDULE ON THIS SHEET AND NOTE 2)
F#, W#, OR P# FOUNDATION OR PIER MARK (SEE SCHEDULE ON THIS SHEET)
1'-0" TOP OF FOOTING/PIER ELEVATION
- DENOTES CONCRETE COLUMN/PIER WALL. FOR COLUMN SCHEDULE AND DETAILS SEE SXXXXX SERIES. FOR WALL DETAILS SEE SXXXXX SERIES.
- DENOTES STEEL COLUMN. SEE SXXXXX.
- FOR STEEL COLUMN BASE PLATE INFORMATION, SEE SXXXXX.
- FOR TRENCHES ADJACENT TO FOUNDATIONS, SEE SXXXXX.
FOR PIPING PASSING UNDER WALL FOUNDATIONS, SEE SXXXXX.
PIPING PASSING UNDER FOOTINGS SHALL BE INSPECTED BEFORE FOUNDATIONS ABOVE ARE PREPARED.
- GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS NEEDED. ADDITIONALLY, GENERAL CONTRACTOR SHALL COORDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- DENOTES STEP IN FOUNDATION. SEE SXXXXX.
- DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES SHOWER DEPRESSION.

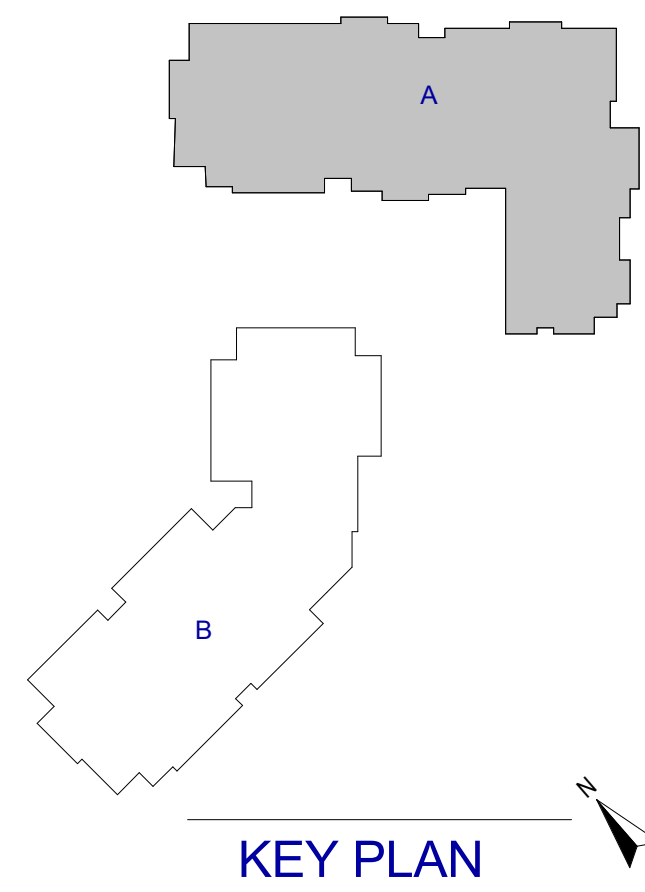
SLAB-ON-GROUND PLAN NOTES:

- REFERENCE BUILDING TOP-OF-SLAB ELEVATION = (+)X'-X" (XX.XX NAVD).
- SOG#— DENOTES SLAB-ON-GROUND MARK (SEE SCHEDULE ON THIS SHEET).
- SJ DENOTES SLAB-ON-GROUND CONTROL JOINT. FOR CONTROL JOINT REQUIREMENTS, SEE SXXXXX.
- FOR RE-ENTRANT CORNER BARS, SEE SXXXXX.
- INSTALL THICKENED SLAB UNDER STAIR STRINGER. SEE SXXXXX.
- FOR THICKENED SLAB UNDER NON-LOAD BEARING CONCRETE MASONRY WALLS, SEE SXXXXX.
- GENERAL CONTRACTOR SHALL COORDINATE HOUSEKEEPING PAD LOCATIONS.
- DENOTES STEP IN TOP OF SLAB. SEE SXXXXX.
- SEE CIVIL DRAWINGS FOR BASE AND SUBGRADE PREPARATION INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - VAPOR BARRIER REQUIREMENTS AND LOCATIONS.
 - ALL SLOPED SLAB AREAS.
 - (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
 - ALL DEPRESSED SLAB AND/OR RAISED SLAB AREAS.
 - (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
 - ALL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS SHOWN IN STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
 - SLAB SLOPES, DRAINS, STEPS, PENETRATIONS, FINISHES, AND ANY OTHER ADDITIONAL INFORMATION.

SLAB-ON-GROUND SCHEDULE			
MARK	THICKNESS	REINFORCEMENT	REMARKS
SOG4	4"		
SOG5	5"		

ISOLATED FOOTING SCHEDULE				
MARK	GEOMETRY		REINFORCEMENT	
	WIDTH	LENGTH	THICKNESS	
F4	4'-0"	4'-0"	18"	
F5.0	5'-0"	5'-0"	18"	
F6	6'-0"	6'-0"	24"	
F7.0	7'-0"	7'-0"	24"	
F8	8'-0"	8'-0"	24"	
F9.0	9'-0"	9'-0"	24"	
F10	10'-0"	10'-0"	24"	
F12	12'-0"	12'-0"	24"	
F14	14'-0"	14'-0"	24"	

MAT FOUNDATION SCHEDULE			
MARK	THICKNESS	REINFORCEMENT	
		TOP	BOTTOM
MF28	28"		
MF32	32"		
MF36	36"		



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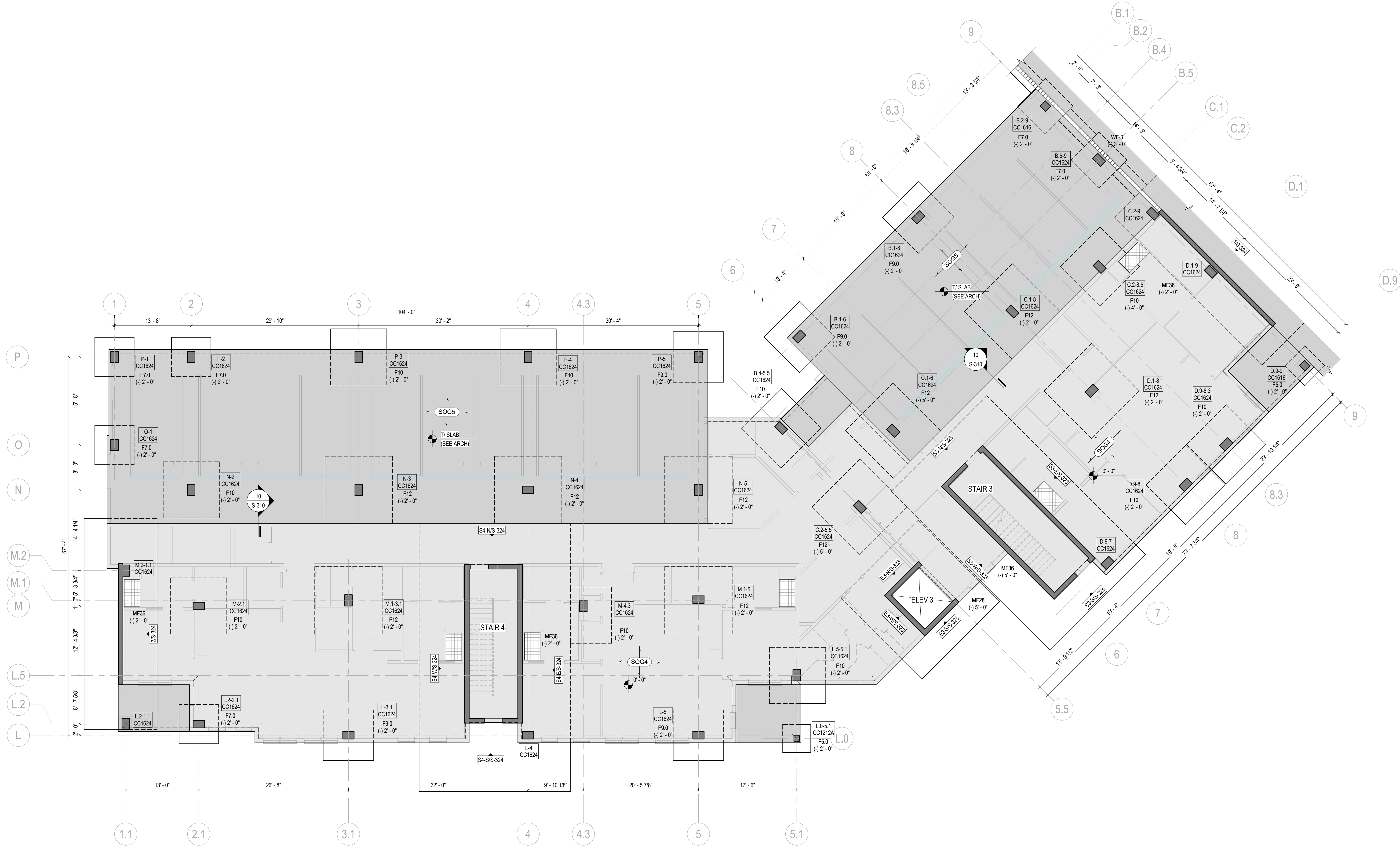
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**PARTIAL
FOUNDATION
PLAN AREA A**

S-141A

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1 PARTIAL FOUNDATION FRAMING PLAN - AREA B
S-141B
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. X-# LOCATION MARK
CC#/# COLUMN MARK (SEE SCHEDULE ON THIS SHEET AND NOTE 2)
F#, W#, OR P# FOUNDATION OR PIER MARK (SEE SCHEDULE ON THIS SHEET)
+ FOUNDATION OR PIER ELEVATION
2. DENOTES CONCRETE COLUMN/PIER/WALL FOR COLUMN SCHEDULE AND DETAILS SEE SXXXX SERIES. FOR WALL DETAILS SEE SXXXX SERIES.
3. I DENOTES STEEL COLUMN. SEE SXXXX.
4. FOR STEEL COLUMN BASE PLATE INFORMATION, SEE SXXXX.
5. FOR TRENCHES ADJACENT TO FOUNDATIONS, SEE SXXXX. FOR PIPING PASSING UNDER WALL FOUNDATIONS, SEE SXXXX. PIPING PASSING UNDER FOOTINGS SHALL BE INSPECTED BEFORE FOUNDATIONS ABOVE ARE PREPARED.
6. GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS NEEDED. ADDITIONALLY, GENERAL CONTRACTOR SHALL COORDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
7. DENOTES STEP IN FOUNDATION, SEE SXXXX.
8. DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX' OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
9. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX' OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
10. DENOTES SHOWER DEPRESSION.

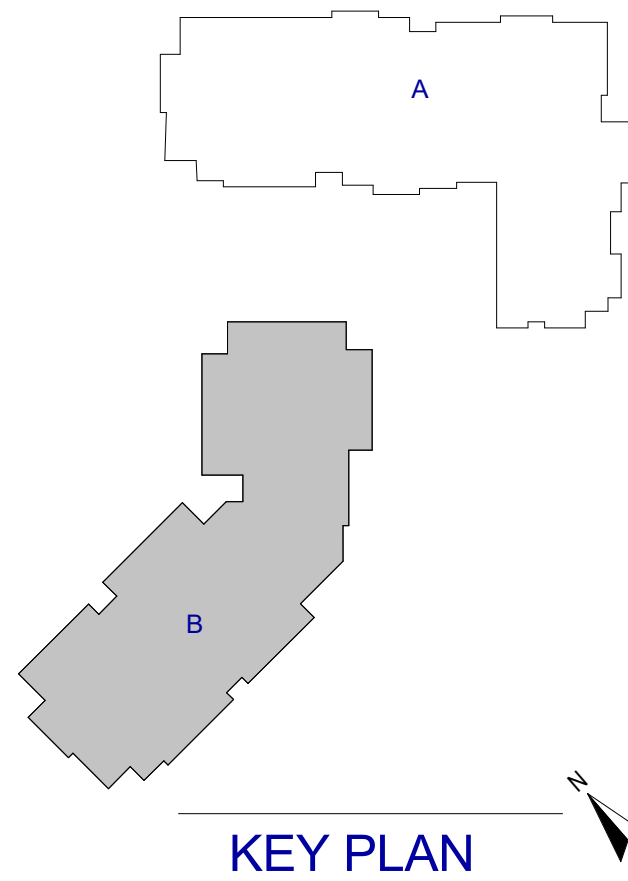
SLAB-ON-GROUND PLAN NOTES:

1. REFERENCE BUILDING TOP-OF-SLAB ELEVATION = (+)X'-X" (XX.XX NAVD).
2. SOG# DENOTES SLAB-ON-GROUND MARK (SEE SCHEDULE ON THIS SHEET).
3. SJ# DENOTES SLAB-ON-GROUND CONTROL JOINT. FOR CONTROL JOINT REQUIREMENTS, SEE SXXXX.
4. FOR RE-ENTRANT CORNER BARS, SEE SXXXX.
5. INSTALL THICKENED SLAB UNDER STAIR STRINGER, SEE SXXXX.
6. FOR THICKENED SLAB UNDER NON-LOAD BEARING CONCRETE MASONRY WALLS, SEE SXXXX.
7. GENERAL CONTRACTOR SHALL COORDINATE HOUSEKEEPING PAD LOCATIONS.
8. DENOTES STEP IN TOP OF SLAB, SEE SXXXX.
9. SEE CIVIL DRAWINGS FOR BASE AND SUBGRADE PREPARATION INFORMATION.
10. SEE ARCHITECTURAL DRAWINGS FOR:
 - VAPOR BARRIER REQUIREMENTS AND LOCATIONS.
 - ALL SLOPED SLAB AREAS.
 - (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
 - ALL DEPRESSED SLAB AND/OR RAISED SLAB AREAS.
 - (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
 - ALL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS SHOWN IN STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
 - SLAB SLOPES, DRAINS, STEPS, PENETRATIONS, FINISHES, AND ANY OTHER ADDITIONAL INFORMATION.

SLAB-ON-GROUND SCHEDULE			
MARK	THICKNESS	REINFORCEMENT	REMARKS
SOG4	4"		
SOG5	5"		

ISOLATED FOOTING SCHEDULE				
MARK	GEOMETRY		REINFORCEMENT	
	WIDTH	LENGTH	THICKNESS	
F4	4'-0"	4'-0"	18"	
F5.0	5'-0"	5'-0"	18"	
F6	6'-0"	6'-0"	24"	
F7.0	7'-0"	7'-0"	24"	
F8	8'-0"	8'-0"	24"	
F9.0	9'-0"	9'-0"	24"	
F10	10'-0"	10'-0"	24"	
F12	12'-0"	12'-0"	24"	
F14	14'-0"	14'-0"	24"	

MAT FOUNDATION SCHEDULE		
MARK	THICKNESS	REINFORCEMENT
		TOP BOTTOM
MF28	28"	
MF32	32"	
MF36	36"	



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Project No.: 2021009
Date: 08/22/2025

PARTIAL
FOUNDATION
PLAN AREA B

S-141B

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1
S-142A

PARTIAL SECOND FLOOR FRAMING PLAN - AREA A

1/8" = 1'-0"

CONCRETE FRAMING PLAN NOTES:

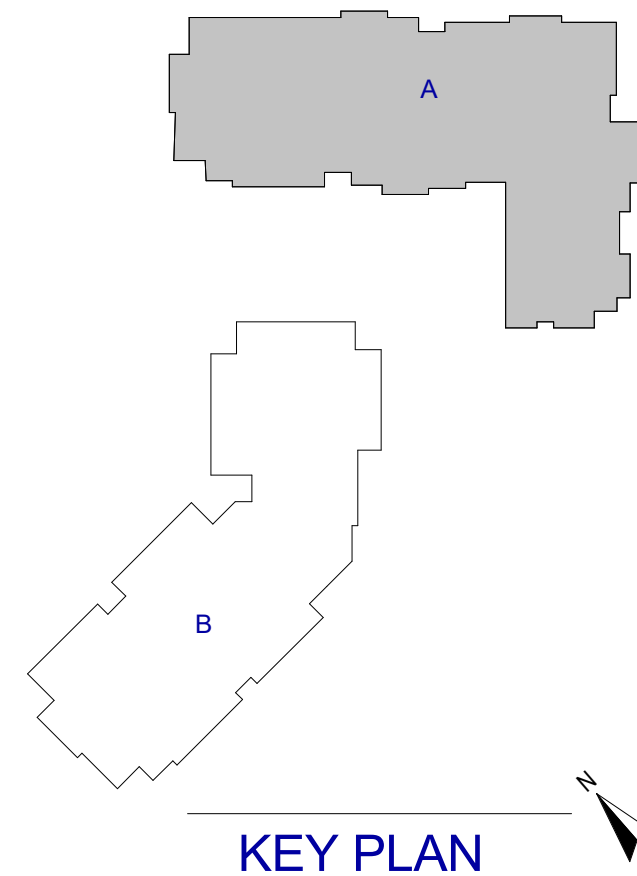
- CONCRETE SLAB TAG:
CS## DENOTES SLAB MARK (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)
ARROWS DENOTE SLAB SPAN DIRECTION
- SEE PLAN FOR TOP OF SLAB ELEVATIONS.
- DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES. FOR WALL DETAILS SEE **SXXXX** SERIES.
- DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES STEP IN TOP OF SLAB, SEE **SXXXX**.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - ALL SLOPED SLAB AREAS.
 - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS, SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB.
 - SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS INTERRUPTING Banded LINES OF TENDONS (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
- FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- DENOTES SHOWER DEPRESSION.

STEEL ROOF FRAMING PLAN NOTES:

- ROOF DECK TAG:
#X## DENOTES DECK MARK (SEE SCHEDULE ON THIS SHEET FOR DECK PROPERTIES AND ATTACHMENT PATTERNS)
ARROWS DENOTE DECK SPAN DIRECTION
- SEE PLAN FOR TOP OF STEEL ELEVATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN AND ALL SLAB ELEVATIONS.
- JOIST SPACING SHALL NOT EXCEED 6'-0" (TYPICAL) UNLESS NOTED OTHERWISE.
- PROVIDE DECK SUPPORT FRAMING AT ROOF OPENINGS INCLUDING DRAINS, VENTS, EXHAUST FANS, HATCHES, AND OTHER OPENINGS LARGER THAN 12" PER **SXXXX**. COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- ROOF EDGE ANGLES SHALL BE CONTINUOUS. FOR SPLICE CONNECTION SEE **SXXXX**.
- NOTIFY STRUCTURAL ENGINEER OF RECORD IF MECHANICAL UNITS SUPPLIED EXCEED WEIGHTS NOTED ON PLAN. COORDINATE EXACT DIMENSIONS AND LOCATIONS WITH MECHANICAL DRAWINGS AND UNITS SUPPLIED.
- PROVIDE EQUIPMENT SUPPORT FRAMING AT ROOFTOP EQUIPMENT. UNIT SUPPORT CURBS/FRAMES AND THEIR CONNECTION TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY OTHERS, UNLESS SPECIFICALLY SHOWN.
- GENERAL CONTRACTOR SHALL COORDINATE CFS TRUSS BRIDGING AND BRACING REQUIREMENTS PER CFS SUPPLIER.
- STEEL CONNECTION DESIGN HAS BEEN DELEGATED TO BE SELECTED/COMPLETED BY STRUCTURAL STEEL FABRICATOR (SEE STRUCTURAL STEEL GENERAL NOTES & PROJECT SPECIFICATIONS).
- REACTIONS SHOWN ARE FACTORED AND TYPE OF CONNECTION DESIGN ARE NOTED AS FOLLOWS:
 - DENOTES MOMENT CONNECTION. DESIGN MOMENT CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS.
 - DENOTES SHEAR REACTION. DESIGN SHEAR CONNECTIONS FOR FORCES INDICATED. IF REACTION IS NOT SHOWN, DESIGN FOR 25 KIPS.
 - DENOTES LATERAL BRACING. SEE DETAILS ON PLAN.

ELEVATED CONCRETE SLAB SCHEDULE 1

MARK	THICKNESS	TYPICAL REINFORCEMENT		COMMENTS
		TOP	BOTTOM	
PT8	8"			



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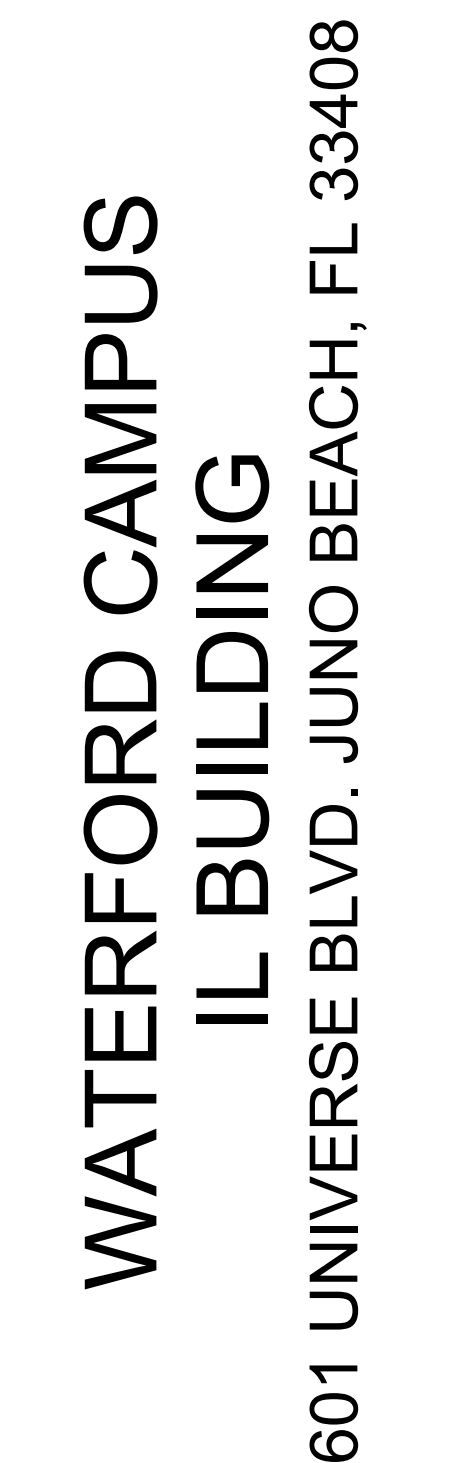
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Date: 08/22/2025

**PARTIAL
SECOND
FLOOR
FRAMING
PLAN AREA A**

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SECOND
FLOOR PT
PLAN AREA A**

S-142A-PT

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POST-TENSIONED CONCRETE SLAB PLAN NOTES

4. TENDON LAYOUT NOTES:
- LAYOUT WORK FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
 - A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CASE.
 - ALL TENDON LINE HORIZONTALS SHALL BE SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPISHED WITH SMOOTH HORIZONTAL CURVE/SWEEP PER DETAIL.
 - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.

5. TENDON DRAPE ELEVATION NOTES:
- # DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDONS/STRAND BUNDLE (CGS).
 - AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED.
 - TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, Banded TENDON LINES) AS INDICATED ABOVE.
 - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.

6. TENDON FORCE NOTES:
• $F = \# K$: DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM.

BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE ABOVE.

- $F = \# \text{ KLF}$: DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.

UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE LAYER.



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1. FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE XXXX.
2. PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE XXXX FOR CONCRETE LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPlice/DEVELOPMENT REQUIREMENTS.
3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
4. ##SR-#(R-#) DENOTES SHEAR STUD RALLS (SEE SCHEDULE ON THIS SHEET AND XXXX).
5. SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:



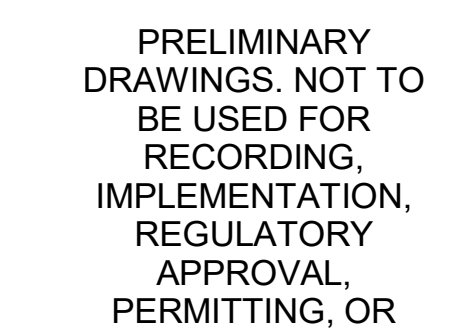
C. TYPICAL NOMENCLATURE (SEE SXXXX).
D. REINFORCEMENT AT COLUMNS (SEE SXXXX).



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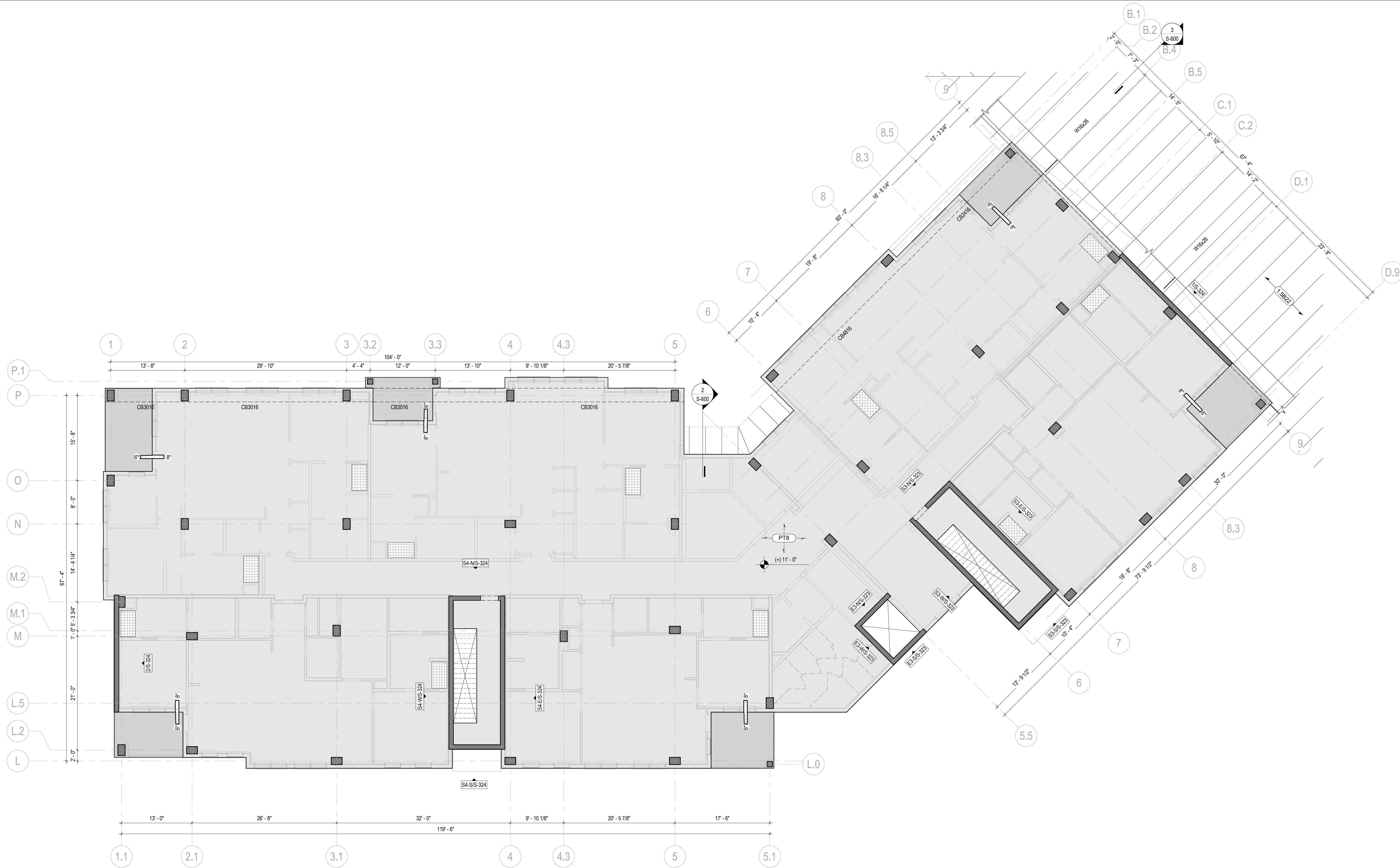
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REINFORCING PLAN AREA A

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1 S-142B PARTIAL SECOND FLOOR FRAMING PLAN - AREA B

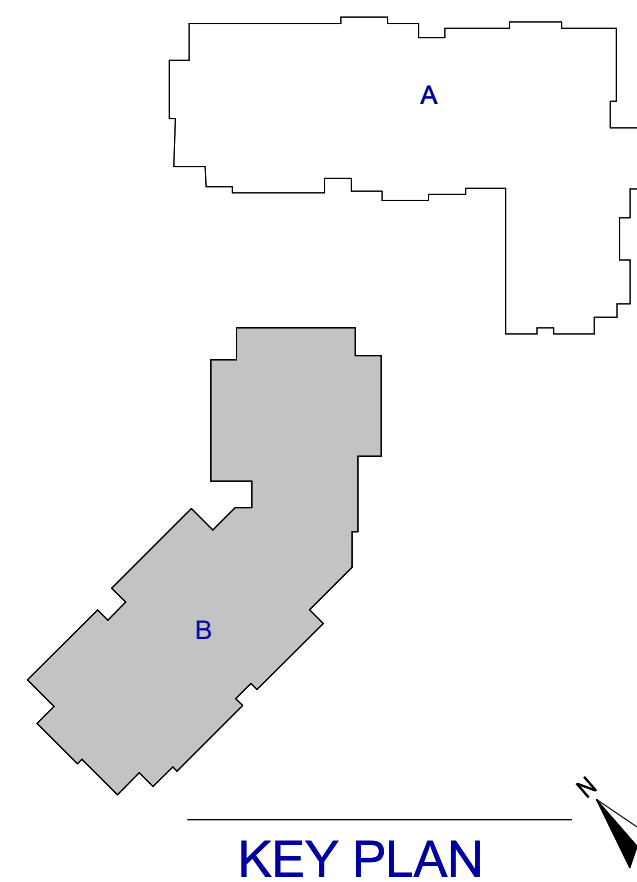
1/8" = 1'-0"

CONCRETE FRAMING PLAN NOTES:

- CONCRETE SLAB TAG: ARROWS DENOTE SLAB SPAN DIRECTION
CS##: DENOTES SLAB MARK (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)
- SEE PLAN FOR TOP OF SLAB ELEVATIONS.
- DENOTES CONCRETE COLUMN/PIER/WALL FOR COLUMN SCHEDULE AND DETAILS SEE SXXXX SERIES. FOR WALL DETAILS SEE SXXXX SERIES.
- DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XXC OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES NONLOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XXC OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES STEP IN TOP OF SLAB, SEE SXXXX.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - ALL SLOPED SLAB AREAS.
 - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS, SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB.
 - SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS INTERRUPTING Banded LINES OF TENDONS (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
- FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET SXXXX.
- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET SXXXX.
- DENOTES SHOWER DEPRESSION.

STEEL ROOF FRAMING PLAN NOTES:

- ROOF DECK TAG: ARROWS DENOTE DECK SPAN DIRECTION
#X##: DENOTES DECK MARK (SEE SCHEDULE ON THIS SHEET FOR DECK PROPERTIES AND ATTACHMENT PATTERNS)
- SEE PLAN FOR TOP OF STEEL ELEVATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN AND ALL SLAB ELEVATIONS.
- JOIST SPACING SHALL NOT EXCEED 6'-0" (TYPICAL) UNLESS NOTED OTHERWISE.
- PROVIDE DECK SUPPORT FRAMING AT ROOF OPENINGS INCLUDING DRAINS, VENTS, EXHAUST FANS, HATCHES, AND OTHER OPENINGS LARGER THAN 12" PER SXXXX. COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- ROOF EDGE ANGLES SHALL BE CONTINUOUS. FOR SPLICE CONNECTION SEE SXXXX.
- NOTIFY STRUCTURAL ENGINEER OF RECORD IF MECHANICAL UNITS SUPPLIED EXCEED WEIGHTS NOTED ON PLAN. COORDINATE EXACT DIMENSIONS AND LOCATIONS WITH MECHANICAL DRAWINGS AND UNITS SUPPLIED.
- PROVIDE EQUIPMENT SUPPORT FRAMING AT ROOFTOP EQUIPMENT. UNIT SUPPORT CURBS/FRAMES AND THEIR CONNECTION TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY OTHERS, UNLESS SPECIFICALLY SHOWN.
- GENERAL CONTRACTOR SHALL COORDINATE CFS TRUSS BRIDGING AND BRACING REQUIREMENTS PER CFS SUPPLIER.
- STEEL CONNECTION DESIGN HAS BEEN DELEGATED TO BE SELECTED/COMPLETED BY STRUCTURAL STEEL FABRICATOR (SEE STRUCTURAL STEEL GENERAL NOTES & PROJECT SPECIFICATIONS).
- REACTIONS SHOWN ARE FACTORED AND TYPE OF CONNECTION DESIGN ARE NOTED AS FOLLOWS:
 - DENOTES MOMENT CONNECTION. DESIGN MOMENT CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS.
 - DENOTES SHEAR REACTION. DESIGN SHEAR CONNECTIONS FOR FORCES INDICATED. IF REACTION IS NOT SHOWN, DESIGN FOR 25 KIPS.
 - DENOTES LATERAL BRACING. SEE DETAILS ON PLAN.



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08/22/25	DESIGN DEVELOPMENT	
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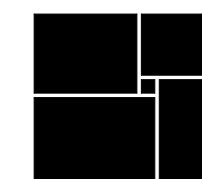
**PARTIAL
SECOND
FLOOR
FRAMING
PLAN AREA B**

S-142B

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	08/22/25	DESIGN DEVELOPMENT
NO.	DATE	DESCRIPTION

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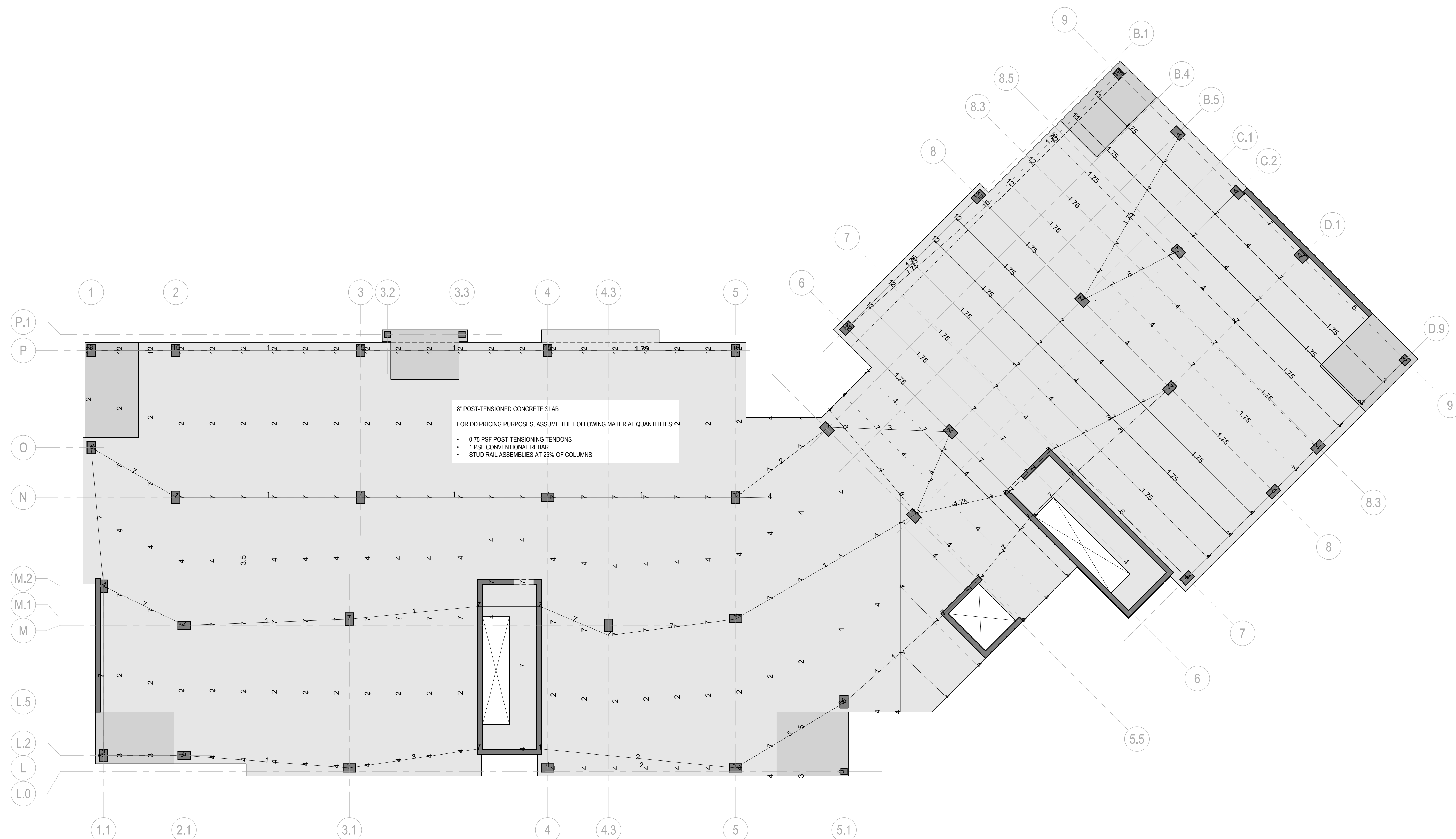
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**PARTIAL
SECOND
FLOOR PT
PLAN AREA B**

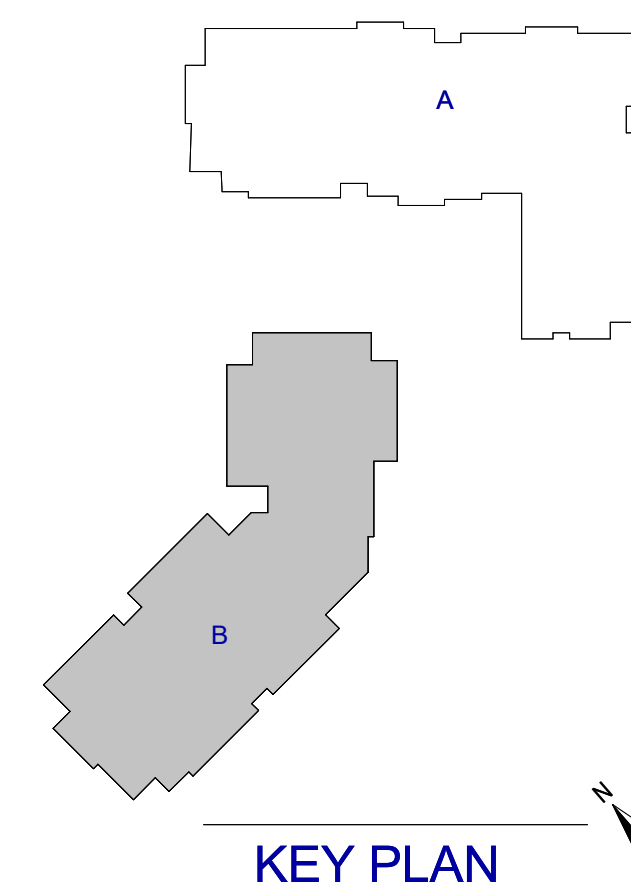
S-142B-PT



1 PARTIAL SECOND FLOOR PT PLAN - AREA B
S-142B-PT 1/8" = 1'-0"

POST-TENSIONED CONCRETE SLAB PLAN NOTES

1. SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
2. SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET SXXXX AND DIVISION G SPECIFICATIONS FOR GENERAL REQUIREMENTS.
3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE SXXXX.
4. TENDON LAYOUT NOTES:
 - LAYOUT SHOW FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
 - A MINIMUM OF (7) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN PERIMETER REINFORCEMENT CAGE.
 - STRAIGHT AND HORIZONTAL TENDON OFFSETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPANIED WITH SMOOTH HORIZONTAL CURVES/KEEPER PER DETAIL.
 - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.
5. TENDON DRAE ELEVATION NOTES:
 - # _____ DENOTES PT TENDON DRAE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER OF GRAVITY OF THE TENDON/STRAID BUNDLE (CGS).
 - AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED.
 - TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON LINES) AS INDICATED ABOVE.
 - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
6. TENDON FORCE NOTES:
 - $F = K \Delta$ _____ DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM.
 - BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE ABOVE.
 - $F = K \Delta F_{UD}$ _____ DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.
 - UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE LAYER.

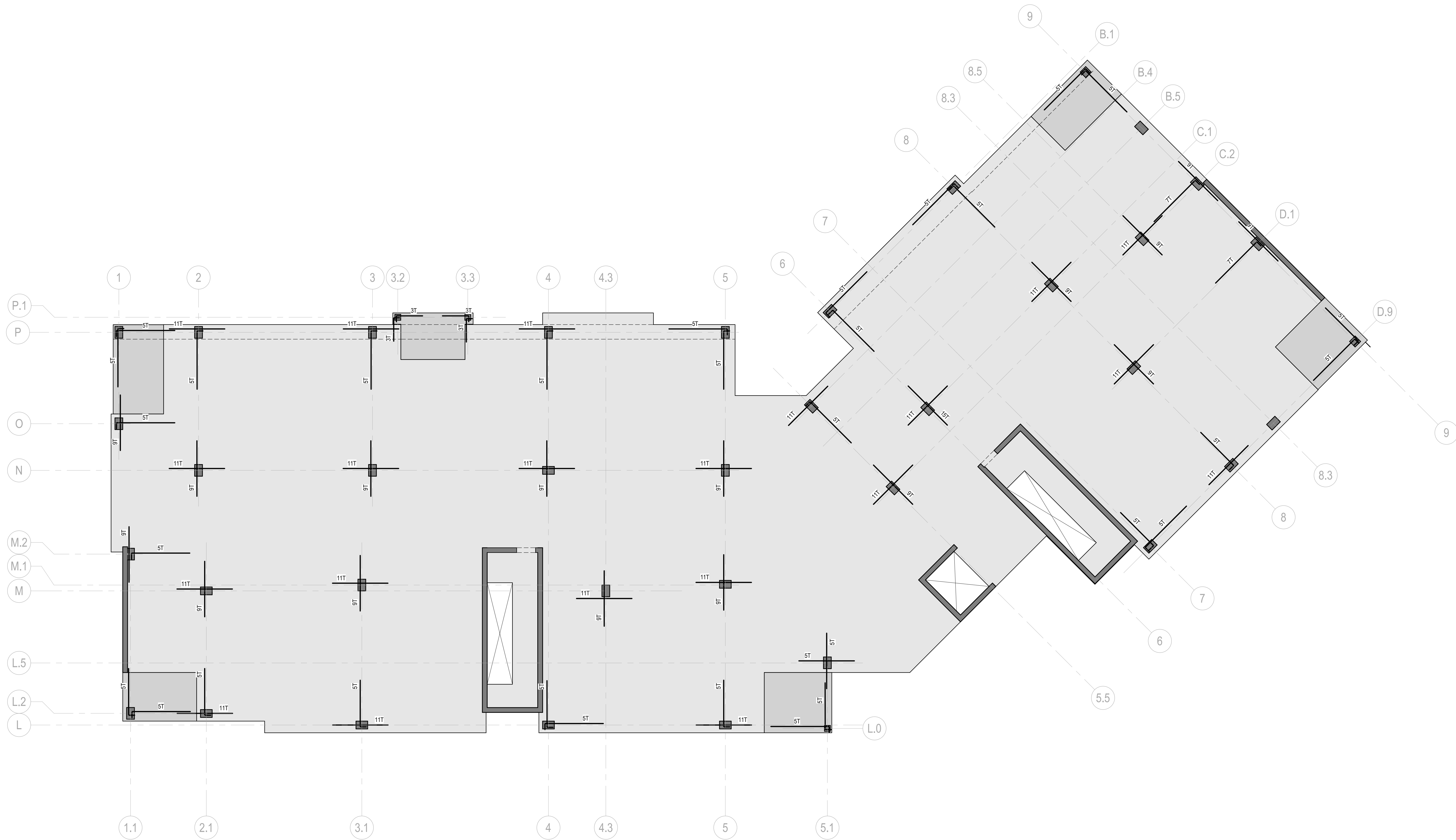


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1
S-142B-R

PARTIAL SECOND FLOOR REINFORCING PLAN - AREA B

1/8" = 1'-0"

CONCRETE SLAB REINFORCEMENT PLAN NOTES:

- FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE SXXXX.
- PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE SXXXX). SEE SXXXX FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPLICE/DEVELOPMENT REQUIREMENTS.
- SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
- ##SR-#(##) :DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND SXXXX).
- SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

A. MAT REINFORCEMENT (SEE SCHEDULE).

PLACEMENT PRIORITY (SEE SXXXX)

ARROWS DENOTE EXTENT

(SINGLE & DOUBLE ARROWS AS

DEFINED IN NOTE 5.B)

MAT REINFORCEMENT MARK

(SEE SCHEDULE ON THIS SHEET)

B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE SXXXX).

BAR SPACING OVER WIDTH OR QUANTITY SHOWN

ACI STANDARD 180° HOOK

(ALL TOP BARS HOOKED AT EDGE-OF-

SLAB EVEN WHEN NOT INDICATED)

SOLID LINE DENOTES

TOP BARS (OR TOP & BOTTOM)

DASHED LINE DENOTES

BOTTOM BARS

SINGLE ARROW DENOTES EXTENT OF BAR

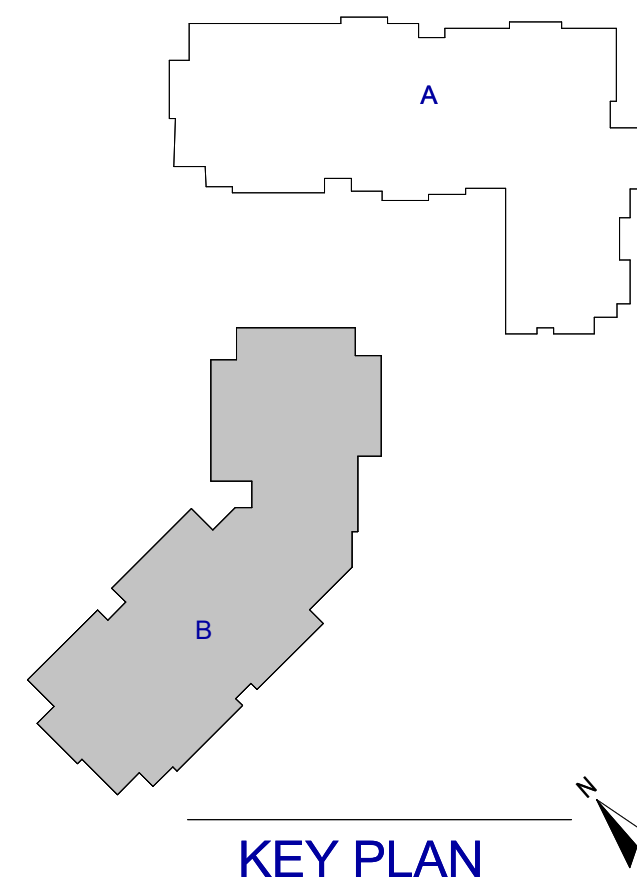
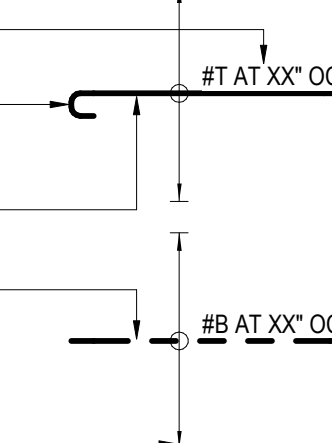
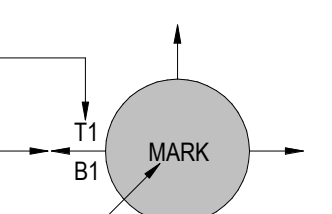
PLACEMENT. DOUBLE ARROW DENOTES EXTENT

TO CONTINUE UNTIL EDGE-OF-SLAB OR END-OF-

ELEMENT (AS APPLICABLE)

C. TYPICAL NOMENCLATURE (SEE SXXXX).

D. REINFORCEMENT AT COLUMNS (SEE SXXXX).

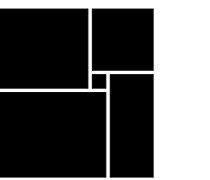


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PARTIAL
SECOND
FLOOR
REINFORCING
PLAN AREA B

S-142B-R

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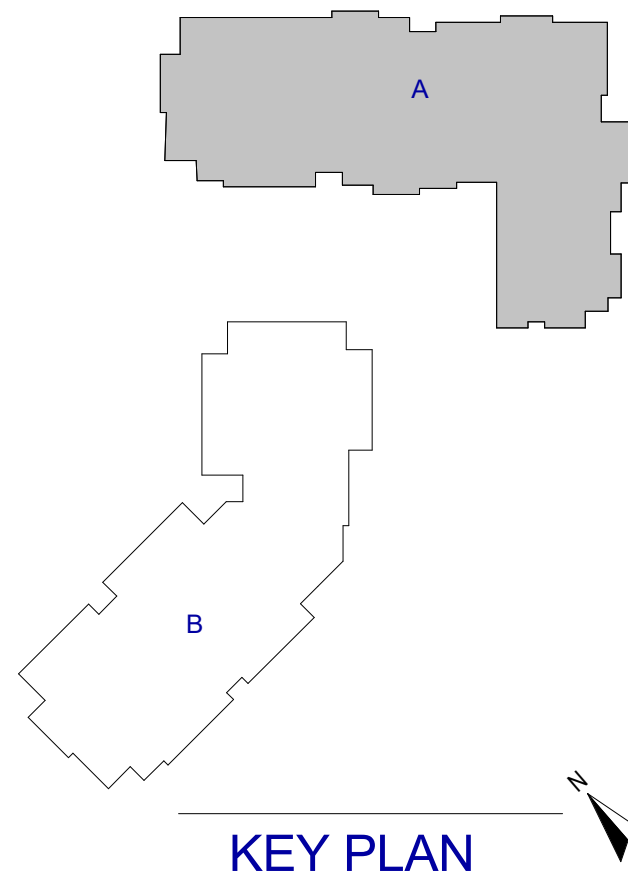
1
S-143A

PARTIAL THIRD FLOOR FRAMING PLAN - AREA A

1/8" = 1'-0"

CONCRETE FRAMING PLAN NOTES:

- CONCRETE SLAB TAG:
 ARROWS DENOTE SLAB SPAN DIRECTION
CS## DENOTES SLAB MARK
(SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)
- SEE PLAN FOR TOP OF SLAB ELEVATIONS.
- DENOTES CONCRETE COLUMN/PIER/WALL.
FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES.
FOR WALL DETAILS SEE **SXXXX** SERIES.
- DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XX** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XX** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES STEP IN TOP OF SLAB, SEE **SXXXX**.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - ALL SLOPED SLAB AREAS.
 - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS, SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB.
 - SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS INTERRUPTING Banded LINES OF TENDONS (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
- FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- DENOTES SHOWER DEPRESSION.



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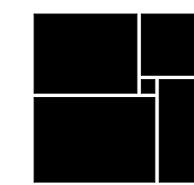
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**PARTIAL
THIRD FLOOR
FRAMING
PLAN AREA A**

S-143A

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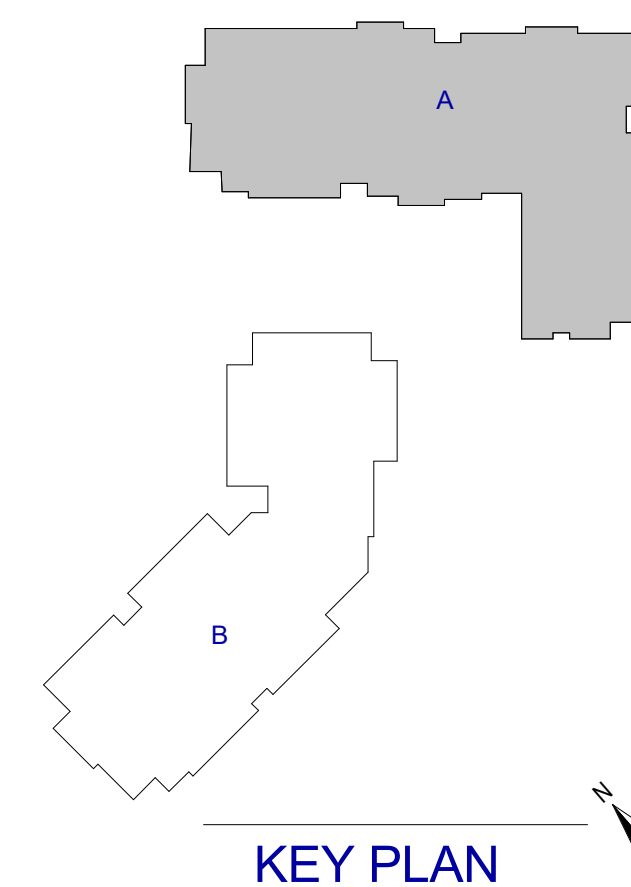
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**PARTIAL
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PT PLAN
AREA A**

S-143A-PT



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1 PARTIAL THIRD FLOOR PT PLAN - AREA A
S-143A-PT 1/8" = 1'-0"

POST-TENSIONED CONCRETE SLAB PLAN NOTES:

1. SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
2. SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET SXXXX AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE SXXXX.

4. TENDON LAYOUT NOTES
- LINESHOW SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
 - A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE.
 - STRAIGHT LINE HORIZONTAL OFFSETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH HORIZONTAL CURVE SWEEP PER DETAIL.
 - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.

5. TENDON DRAPE ELEVATION NOTES:
- # DENOTES FIT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO CENTER OF GRAVITY OF THE TENDON/STRAND BUNDLE (CGS).
 - * AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED.
 - TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BENDED TENDON LINES) AS INDICATED ABOVE.
 - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.

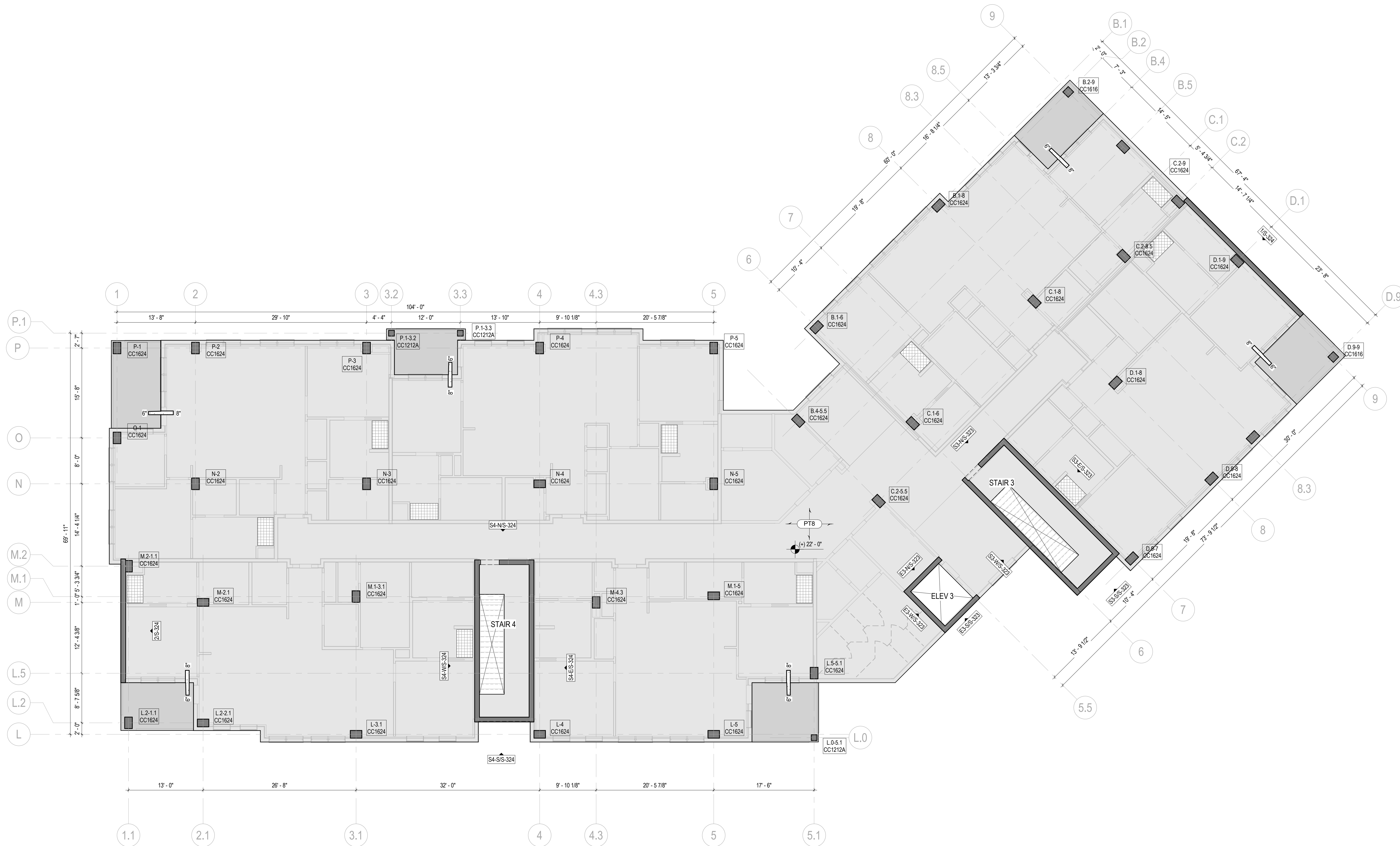
6. TENDON FORCE NOTES:

BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE ABOVE.

- $F = \# \text{ KLF}$: DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.

UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE LAYER

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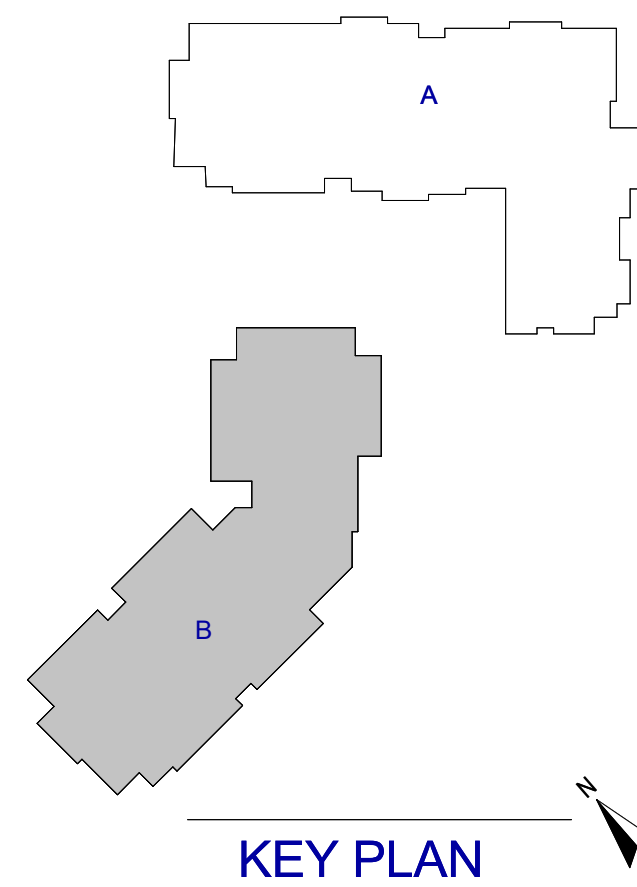


1 S-143B PARTIAL THIRD FLOOR FRAMING PLAN - AREA B

1/8" = 1'-0"

CONCRETE FRAMING PLAN NOTES:

- CONCRETE SLAB TAG:
 - ARROWS DENOTE SLAB SPAN DIRECTION
 - CS## DENOTES SLAB MARK (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)
- SEE PLAN FOR TOP OF SLAB ELEVATIONS.
-  DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES. FOR WALL DETAILS SEE **SXXXX** SERIES.
-  DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
-  DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
-  DENOTES STEP IN TOP OF SLAB. SEE **SXXXX**.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - ALL SLOPED SLAB AREAS.
 - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS, SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB.
 - SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
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 - SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
- FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
-  DENOTES SHOWER DEPRESSION.



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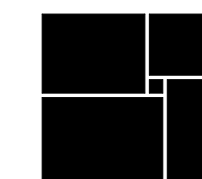
**PARTIAL
THIRD FLOOR
FRAMING
PLAN AREA B**

S-143B

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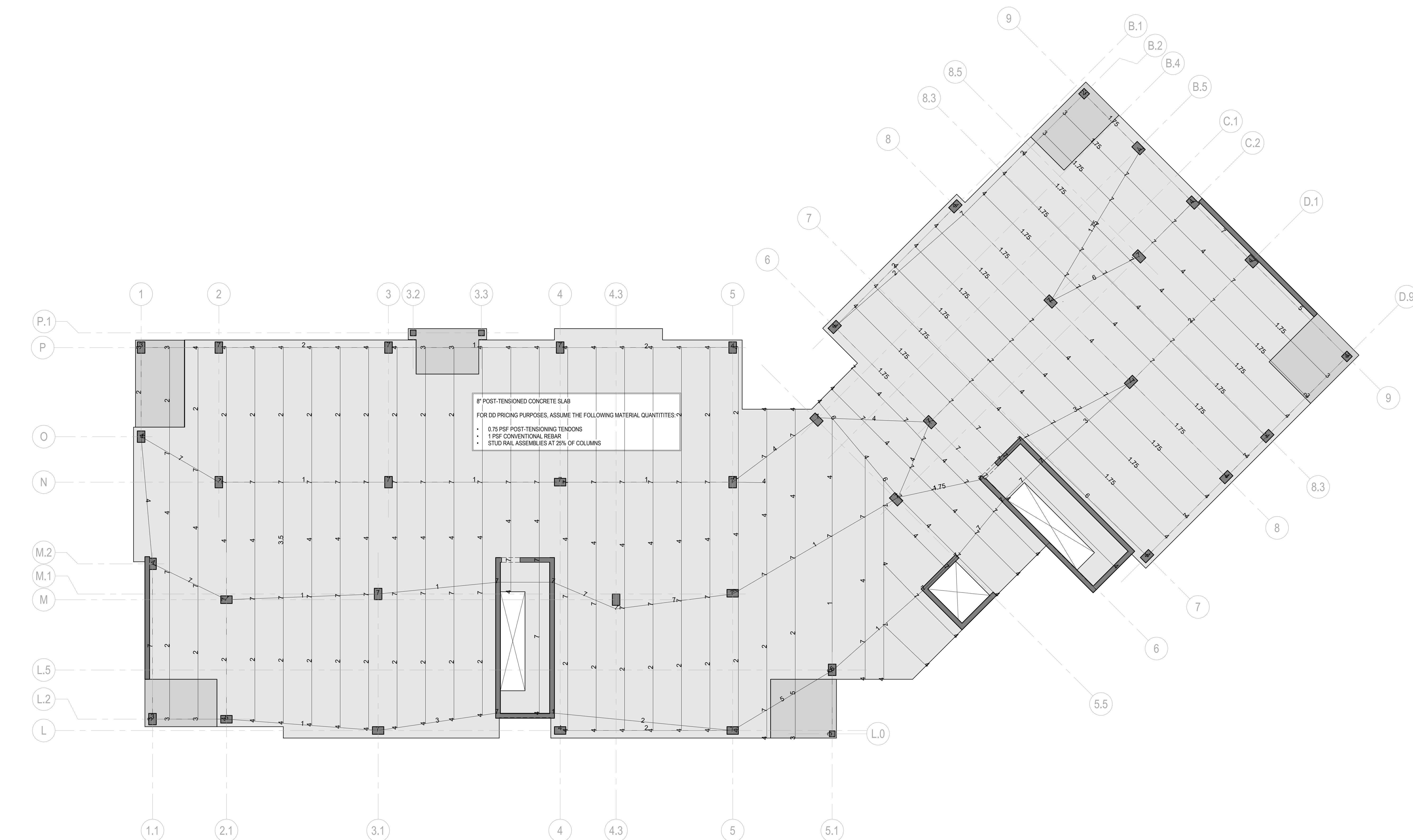
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PT PLAN
AREA B**

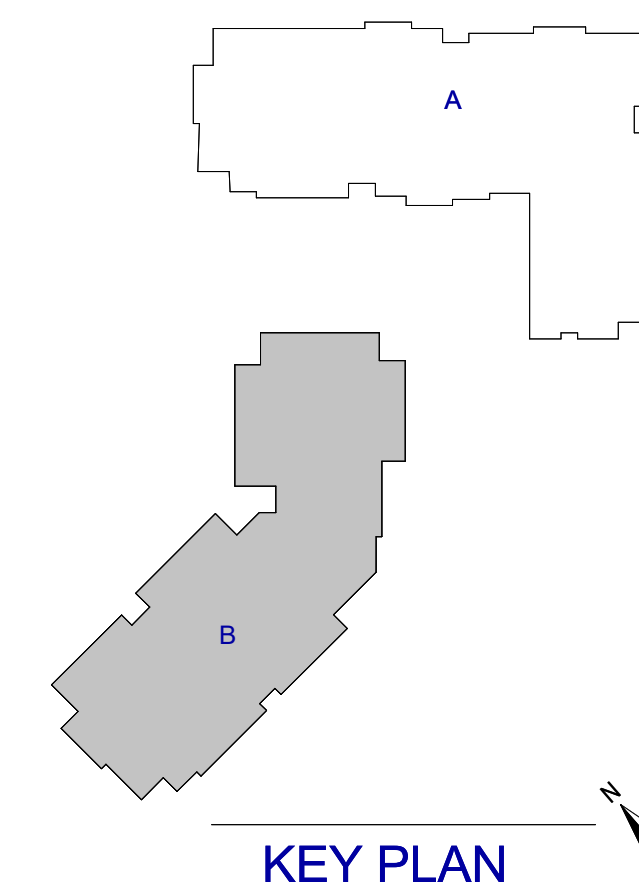
S-143B-PT



1 PARTIAL THIRD FLOOR PT PLAN - AREA B

POST-TENSIONED CONCRETE SLAB PLAN NOTES

1. SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
2. SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET XXXXX AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE XXXXX.
4. TENDON LAYOUT NOTES:
 - LINEWORK SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
 - A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE.
 - STRAIGHT LINE HORIZONTAL OFFSETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH HORIZONTAL CURVED SEGMENTS PER DETAIL.
 - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.
5. TENDON DRAPE ELEVATION NOTES:
 - # DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER OF GRAVITY OF THE TENDON/STRAND BUNDLE (CGS).
 - AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED.
 - TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BENDED TENDON LINES) AS INDICATED ABOVE.
 - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
6. TENDON FORCE NOTES:
 - $F = F + K$ DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BENDED TENDON GROUP OR BEAM.
 - BENDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BENDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE ABOVE.
 - $F = F + KLF$ DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.
 - UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE



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**PARTIAL
THIRD FLOOR
REINFORCING
PLAN AREA B**

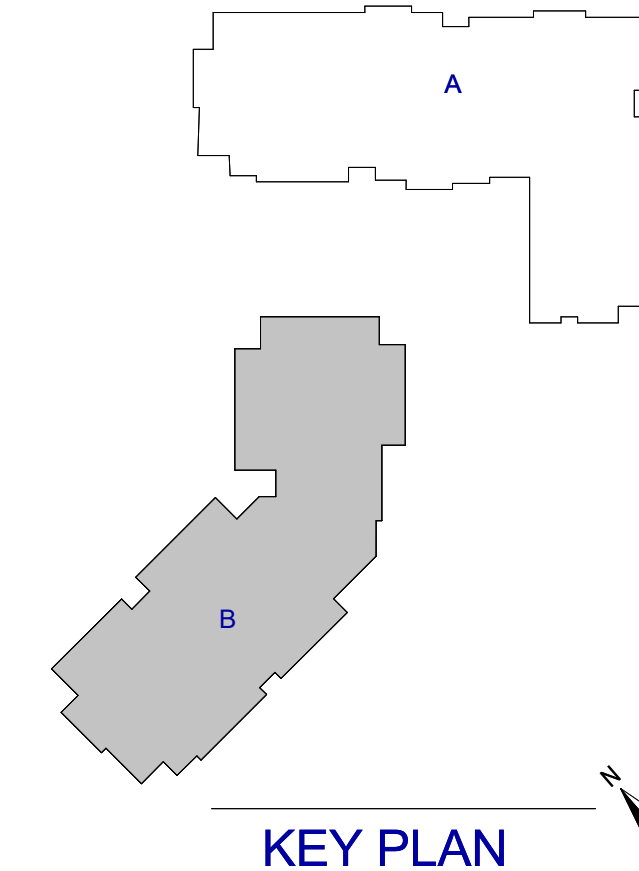
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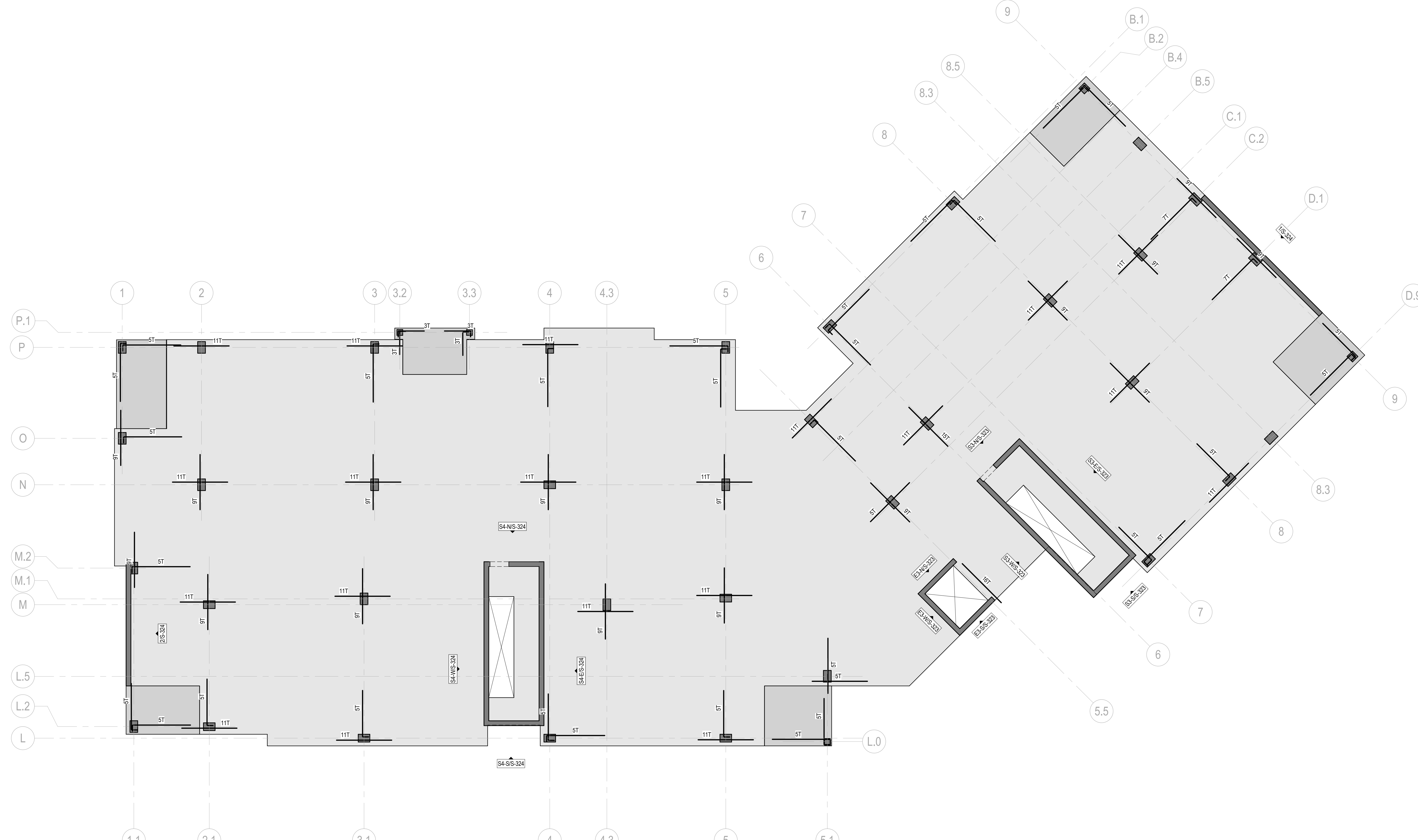
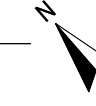
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KEY PLAN

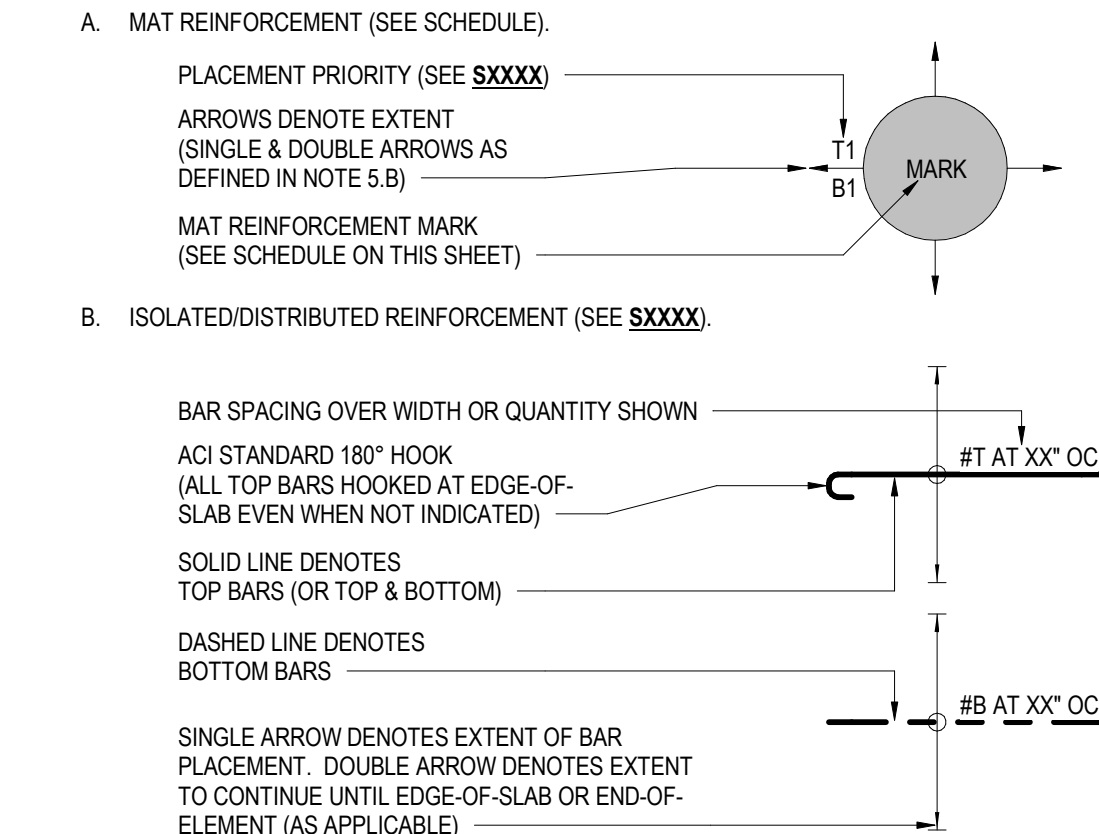


1 PARTIAL THIRD FLOOR REINFORCING PLAN - AREA B

S-143B-R 1/8" = 1'-0"

CONCRETE SLAB REINFORCEMENT PLAN NOTES:

1. FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE XXXXX.
2. PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE XXXXX). SEE XXXXX FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPECIFICATIONS/DEVELOPMENT REQUIREMENTS.
3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
4. ##SR-#(#+#) DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND XXXXX).
5. SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:



- C. TYPICAL NOMENCLATURE (SEE SXXXX).
- D. REINFORCEMENT AT COLUMNS (SEE SXXXX).

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S-144A

PARTIAL FOURTH FLOOR FRAMING PLAN - AREA A

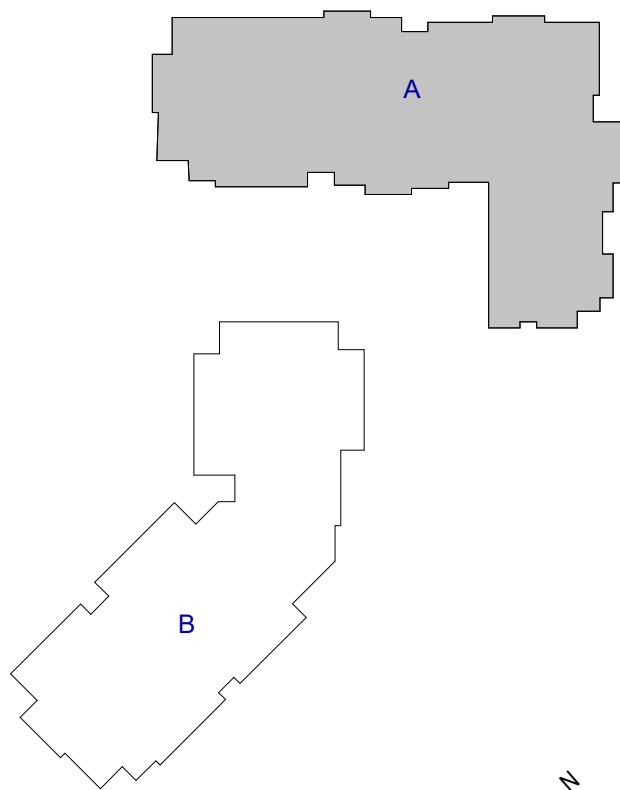
1/8" = 1'-0"

CONCRETE FRAMING PLAN NOTES:

- CONCRETE SLAB TAG:
ARROWS DENOTE SLAB SPAN DIRECTION
CS## DENOTES SLAB MARK
(SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)
- SEE PLAN FOR TOP OF SLAB ELEVATIONS.
- DENOTES CONCRETE COLUMN/PIER/WALL.
FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES.
FOR WALL DETAILS SEE **SXXXX** SERIES.
- DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES NONLOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES STEP IN TOP OF SLAB, SEE **SXXXX**.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - ALL SLOPED SLAB AREAS.
 - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS, SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB.
 - SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS INTERRUPTING Banded LINES OF TENDONS (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
 - SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
- FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- DENOTES SHOWER DEPRESSION.



KEY PLAN



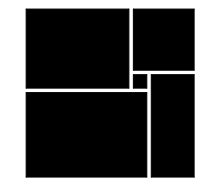
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04/07/25	SCHEMATIC DESIGN	DESCRIPTION

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Date: 08/22/2025

**PARTIAL
FOURTH
FLOOR
FRAMING
PLAN AREA A**

S-144A

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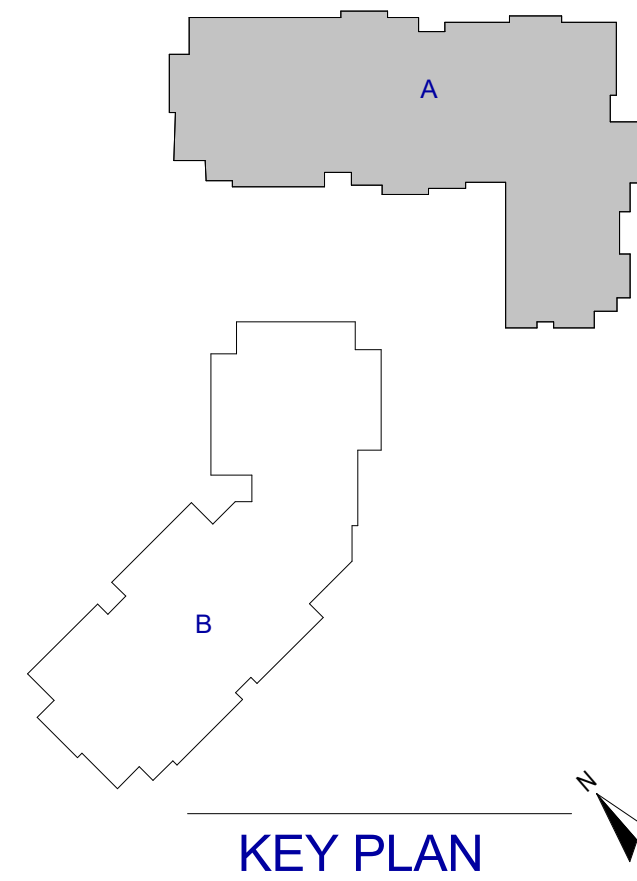
1
S-144A-PT

PARTIAL FOURTH FLOOR PT PLAN - AREA A

1/8" = 1'-0"

POST-TENSIONED CONCRETE SLAB PLAN NOTES:

- SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
- SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET **SXXXX** AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
- FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE **SXXXX**.
- TENDON LAYOUT NOTES:
 - LINEWORK SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
 - A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE.
 - STRAIGHT LINE HORIZONTAL OFFSETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH HORIZONTAL CURVES/SWEEP PER DETAIL.
 - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.
- TENDON DRAPE ELEVATION NOTES:
 - # DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDONS/STRAND BUNDLE (CGS).
 - AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED.
 - TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON LINES) AS INDICATED ABOVE.
 - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
- TENDON FORCE NOTES:
 - F = # K DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM.
 - BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE ABOVE.
 - F = # KLF DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.
 - UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE LAYER.



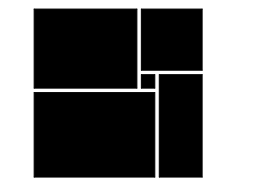
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08/22/25	DESIGN	DEVELOPMENT

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PLAN AREA A

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FLOOR
REINFORCING
PLAN AREA A**

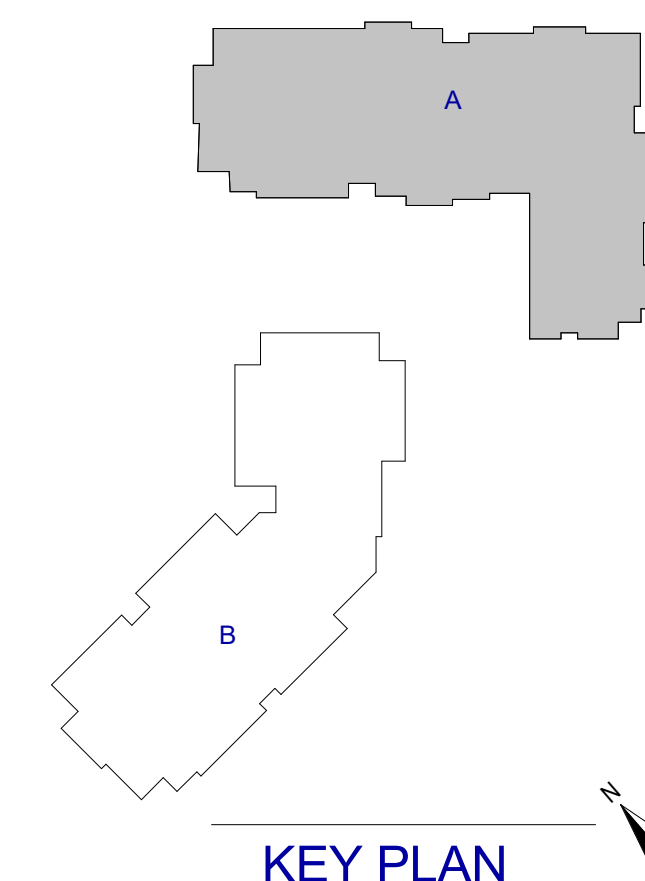

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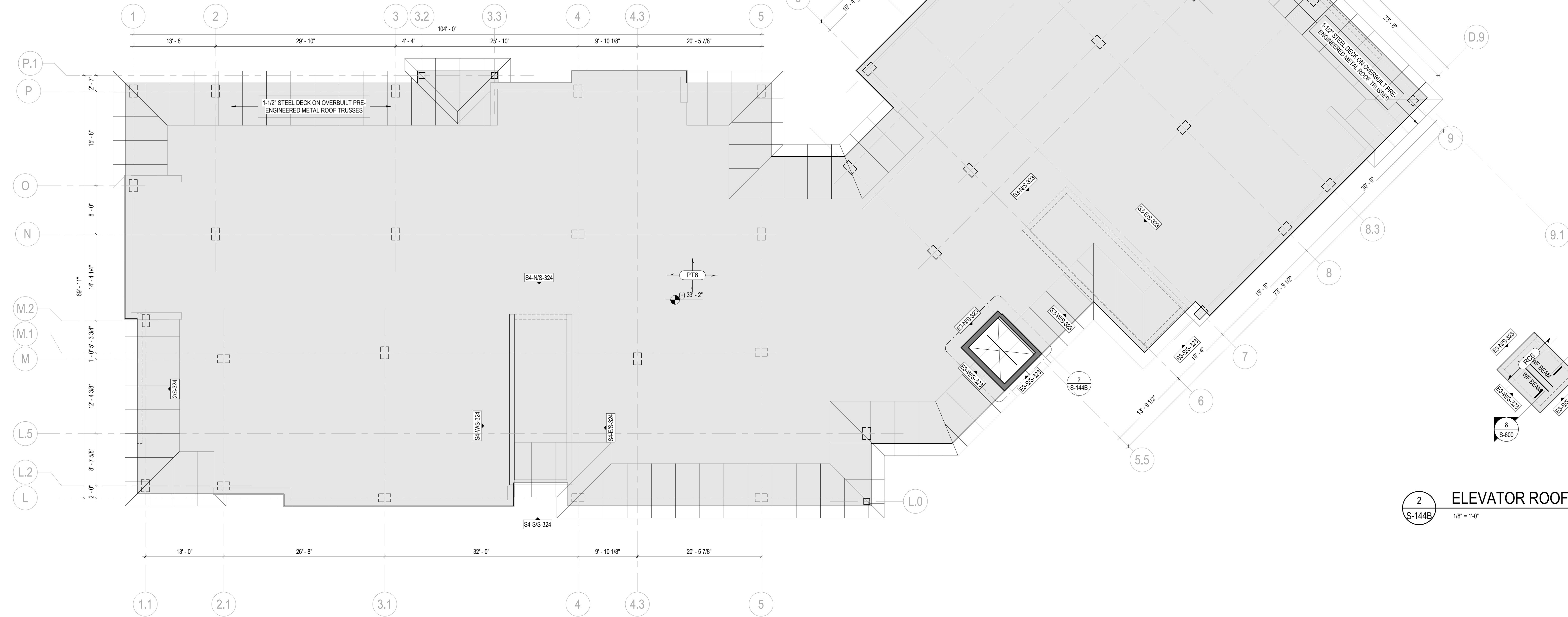
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C. TYPICAL NOMENCLATURE (SEE SXXXX).

D. REINFORCEMENT AT COLUMNS (SEE SXXXX).



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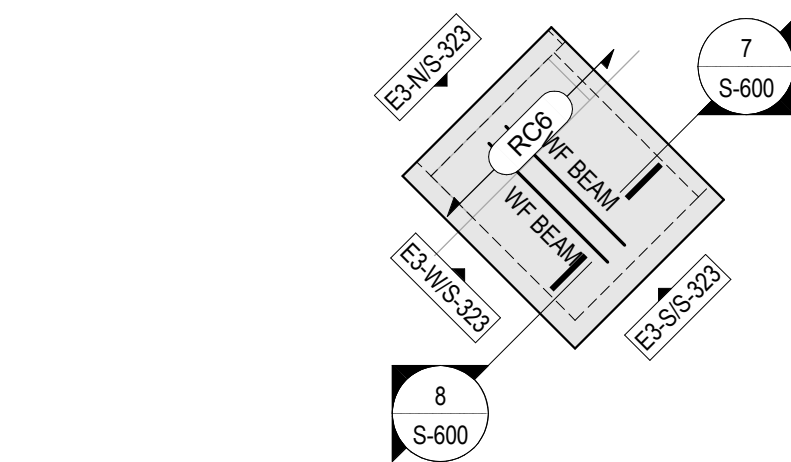


1 PARTIAL ROOF FRAMING PLAN - AREA B

1/8" = 1'-0"

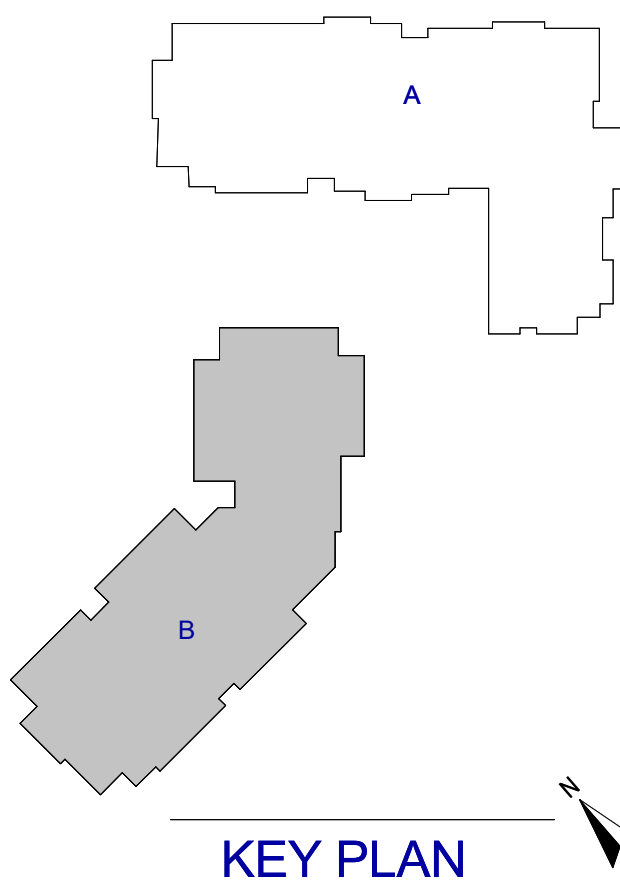
CONCRETE FRAMING PLAN NOTES:

- CONCRETE SLAB TAG:
 - ARROWS DENOTE SLAB SPAN DIRECTION
 - CS##: DENOTES SLAB MARK (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)
- SEE PLAN FOR TOP OF SLAB ELEVATIONS.
-  DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES. FOR WALL DETAILS SEE **SXXXX** SERIES.
-  DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **EX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
-  DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **EX** AT **XXC** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
-  DENOTES STEP IN TOP OF SLAB, SEE **SXXXX**.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - ALL SLOPED SLAB AREAS.
 - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS, SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB.
 - SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
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 - SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.
- FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
-  DENOTES SHOWER DEPRESSION.



2 ELEVATOR ROOF PLAN - AREA B

1/8" = 1'-0"



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**PARTIAL
ROOF
FRAMING
PLAN AREA B**

S-144B

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	08/22/25	DESIGN DEVELOPMENT
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Project No.: 2021009
Date: 08/22/2025

**PARTIAL
ROOF PT
PLAN AREA B**

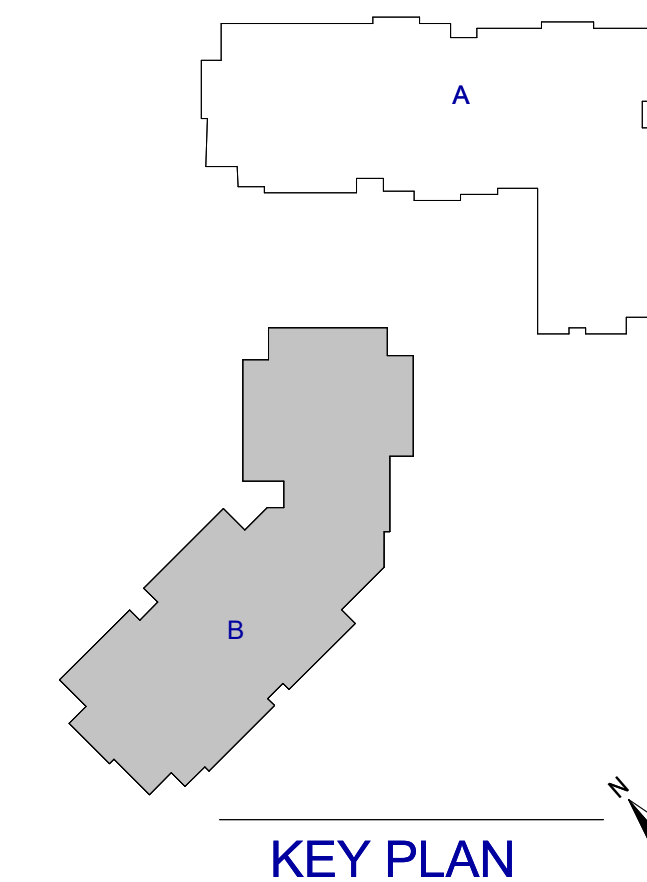
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KEY PLAN

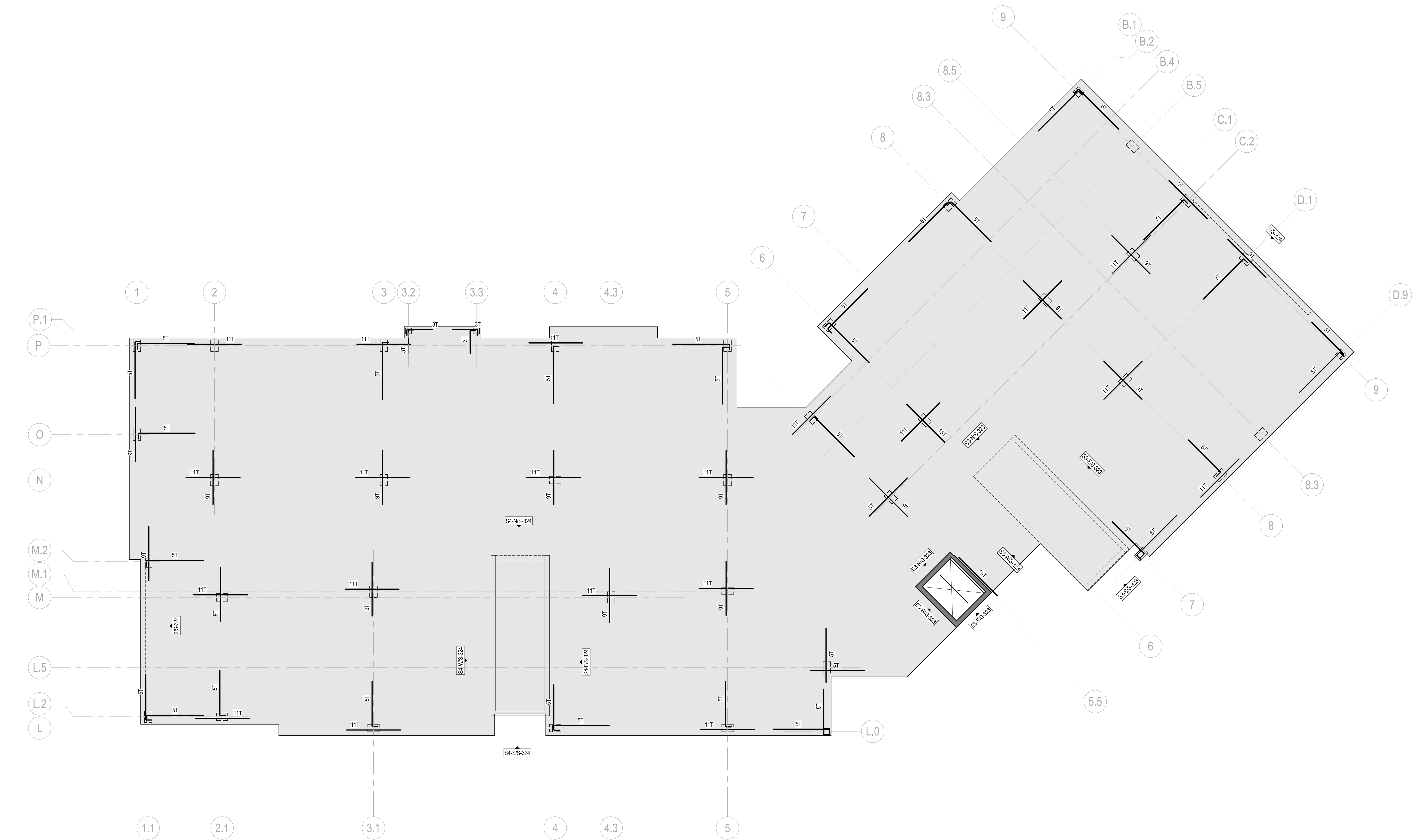
PARTIAL ROOF PT PLAN - AREA B

1
S-144B-PT

POST-TENSIONED CONCRETE SLAB PLAN NOTES:

1. SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
2. SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET SXXXX AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS
3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE SXXXX.
4. TENDON LAYOUT NOTES:
 - LAYOUT SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
 - A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED CURVE/SIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE.
 - STRIKE ONE HORIZONTAL OFFSETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPANIED WITH SMOOTH HORIZONTAL CURVE/SWEEP PER DETAIL.
 - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.
5. TENDON DRAPE ELEVATION NOTES:
 - # DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER OF GRAVITY OF THE TENDON(S)/STRAND BUNDLE(S).
 - AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS). UNLESS OTHERWISE NOTED.
 - TENDON HIGHT POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON LINES) AS INDICATED ABOVE.
 - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
6. TENDON FORCE NOTES:
 - $F = F_k$ DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM.
 - BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER COLUMN ABOVE.
 - $F = F_{kLF}$ DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.
 - $F = F_{kLF}$ DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.
 - UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE LAYER.

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1 PARTIAL ROOF REINFORCING PLAN - AREA B
S-144B-R

1/8" = 1'-0"

CONCRETE SLAB REINFORCEMENT PLAN NOTES:

- FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.
- PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE **SXXXX**). SEE **SXXXX** FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPLICE/DEVELOPMENT REQUIREMENTS.
- SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
- ##SR-#(##) DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).
- SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

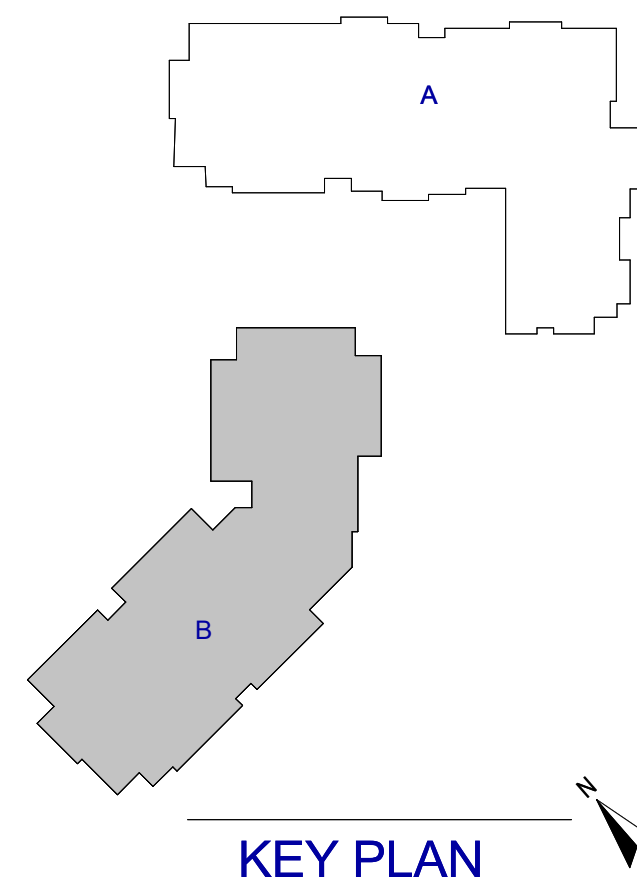
A. MAT REINFORCEMENT (SEE SCHEDULE).

PLACEMENT PRIORITY (SEE **SXXXX**)
ARROWS DENOTE EXTENT (SINGLE & DOUBLE ARROWS AS DEFINED IN NOTE 5.B)
MAT REINFORCEMENT MARK (SEE SCHEDULE ON THIS SHEET)

B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE **SXXXX**).

BAR SPACING OVER WIDTH OR QUANTITY SHOWN
ACI STANDARD 180° HOOK (ALL TOP BARS HOOKED AT EDGE-OF-SLAB EVEN WHEN NOT INDICATED)
SOLID LINE DENOTES TOP BARS (OR TOP & BOTTOM)
DASHED LINE DENOTES BOTTOM BARS
SINGLE ARROW DENOTES EXTENT OF BAR PLACEMENT. DOUBLE ARROW DENOTES EXTENT TO CONTINUE UNTIL EDGE-OF-SLAB OR END-OF-ELEMENT (AS APPLICABLE)

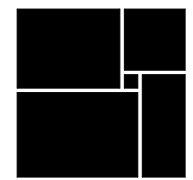
- C. TYPICAL NOMENCLATURE (SEE **SXXXX**).
D. REINFORCEMENT AT COLUMNS (SEE **SXXXX**).



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Date: 08/22/2025

PARTIAL
ROOF
REINFORCING
PLAN AREA B

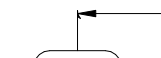
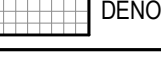
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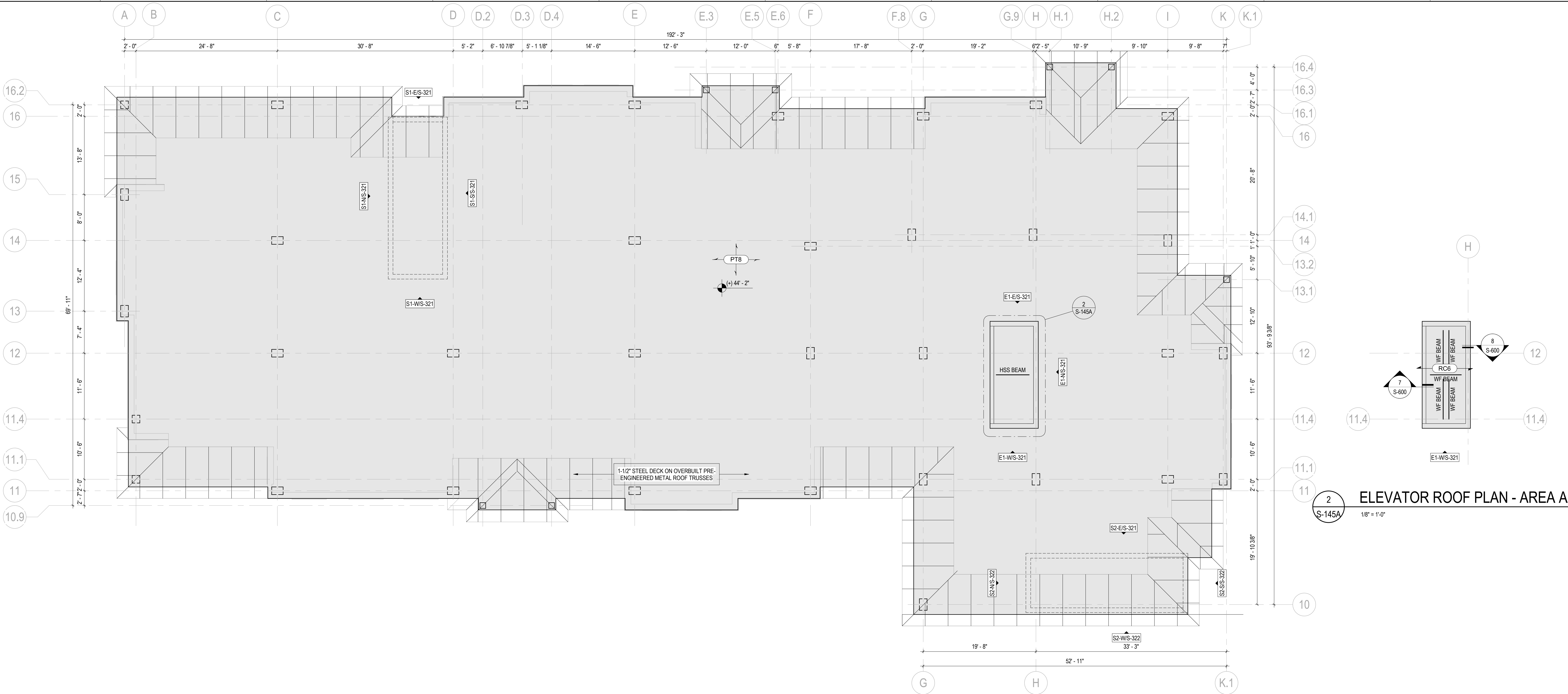
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1 S-145A PARTIAL ROOF FRAMING PLAN - AREA A 1/8" = 1'-0"

CONCRETE FRAMING PLAN NOTES:

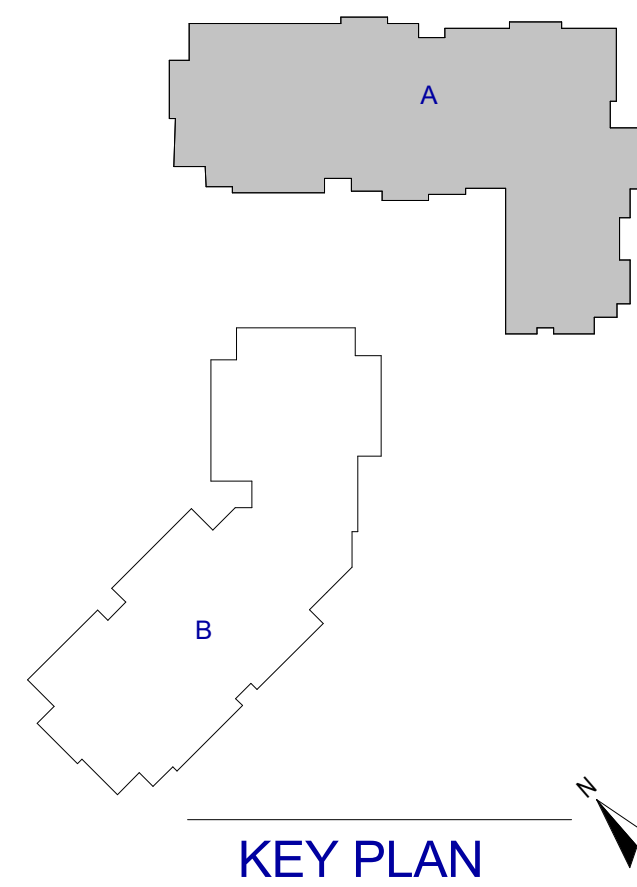
- CONCRETE SLAB TAG:
 ARROWS DENOTE SLAB SPAN DIRECTION
CS## DENOTES SLAB MARK
(SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)
- SEE PLAN FOR TOP OF SLAB ELEVATIONS.
-  DENOTES CONCRETE COLUMN/PIER/WALL.
FOR COLUMN SCHEDULE AND DETAILS SEE SXXXX SERIES.
FOR WALL DETAILS SEE SXXXX SERIES.
-  DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
-  DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
-  DENOTES STEP IN TOP OF SLAB. SEE SXXXX.
- SEE ARCHITECTURAL DRAWINGS FOR:
 - ALL SLOPED SLAB AREAS.
 - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
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- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET SXXXX.
-  DENOTES SHOWER DEPRESSION.



2
S-145A

ELEVATOR ROOF PLAN - AREA A

1/8" = 1'-0"



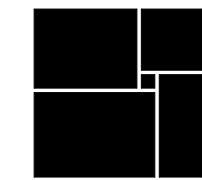
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NO.	DATE	DESCRIPTION
08/22/25	DESIGN	DEVELOPMENT
04/07/25	SCHEMATIC DESIGN	

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**DESIGN
DEVELOPMENT**

Project No.: 2021009
Date: 08/22/2025

**PARTIAL
ROOF
FRAMING
PLAN AREA A**

S-145A

8/25/2025 1:55:36 AM

Autodesk Docs://The Waterford (Stage 2)/2021009_WCR_IL-BLDG_STRUCT_R24.rvt

1
S-145A-PT PARTIAL ROOF PT PLAN - AREA A
1/8" = 1'-0"

POST-TENSIONED CONCRETE SLAB PLAN NOTES:

- SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
- SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET **SXXXX** AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
- FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE **SXXXX**.
- TENDON LAYOUT NOTES:
 - LINEWORK SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
 - A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE.
 - STRAIGHT LINE HORIZONTAL OFFSETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH HORIZONTAL CURVES/SWEEP PER DETAIL.
 - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.
- TENDON DRAPE ELEVATION NOTES:
 - # DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDONS/STRAND BUNDLE (CGS).
 - AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED.
 - TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON LINES) AS INDICATED ABOVE.
 - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
- TENDON FORCE NOTES:
 - F=# K DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM.

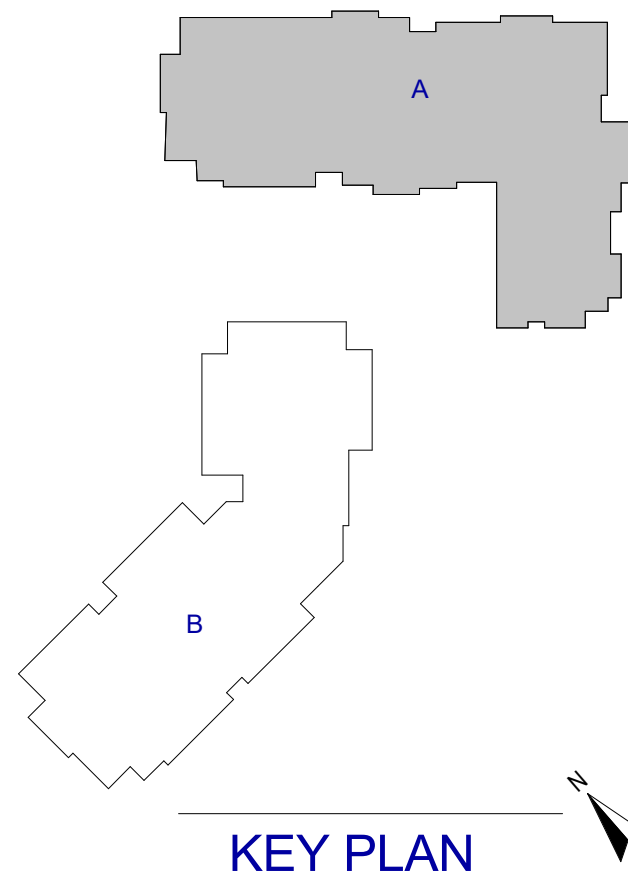
BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE ABOVE.

- F=# KLF DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.

UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE LAYER.

8" POST-TENSIONED CONCRETE SLAB
FOR DD PRICING PURPOSES, ASSUME THE FOLLOWING MATERIAL QUANTITIES:

- 0.75 PSF POST-TENSIONING TENDONS
- 1 PSF CONVENTIONAL REBAR
- STUD RAIL ASSEMBLIES AT 25% OF COLUMNS



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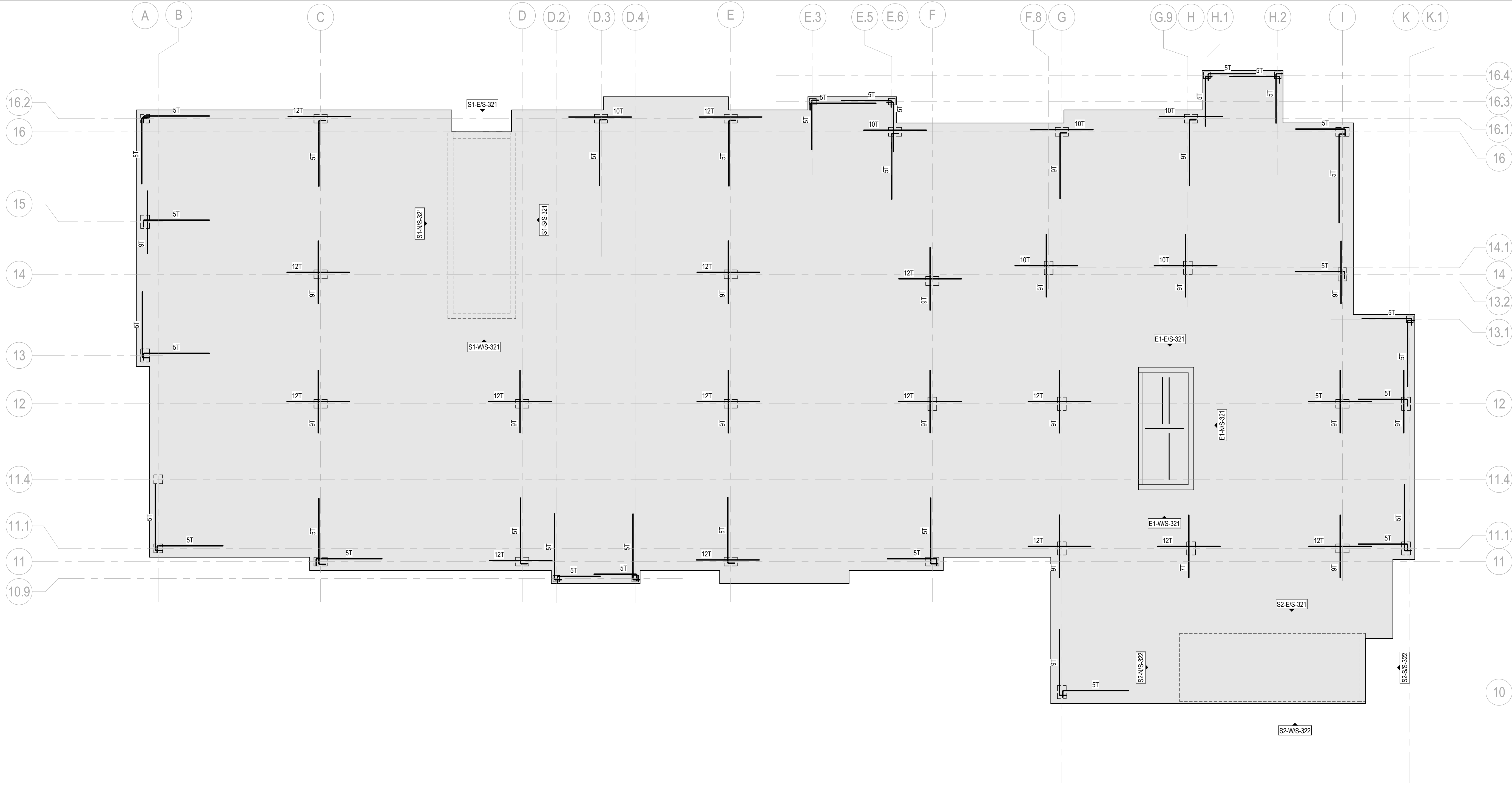
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DEVELOPMENT

Project No.: 2021009
Date: 08/22/2025

PARTIAL
ROOF PT
PLAN AREA A

S-145A-PT

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1 S-145A-R PARTIAL ROOF REINFORCING PLAN - AREA A 1/8" = 1'-0"

CONCRETE SLAB REINFORCEMENT PLAN NOTES:

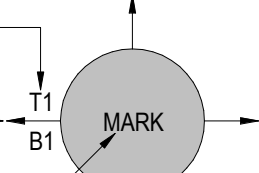
- FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.
- PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE **SXXXX**). SEE **SXXXX** FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPLICE/DEVELOPMENT REQUIREMENTS.
- SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
- ##SR-#(X'-#)** .DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).
- SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

A. MAT REINFORCEMENT (SEE SCHEDULE).

PLACEMENT PRIORITY (SEE **SXXXX**)

ARROWS DENOTE EXTENT (SINGLE & DOUBLE ARROWS AS DEFINED IN NOTE 5.B)

MAT REINFORCEMENT MARK (SEE SCHEDULE ON THIS SHEET)



B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE **SXXXX**).

BAR SPACING OVER WIDTH OR QUANTITY SHOWN

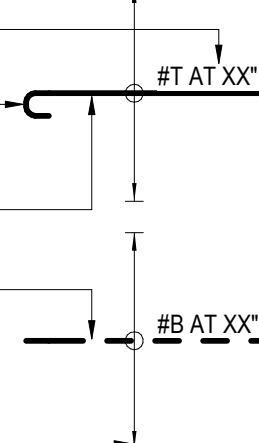
AS STANDARD 180° HOOK

(ALL TOP BARS HOOKED AT EDGE OF SLAB EVEN WHEN NOT INDICATED)

SOLID LINE DENOTES TOP BARS (OR TOP & BOTTOM)

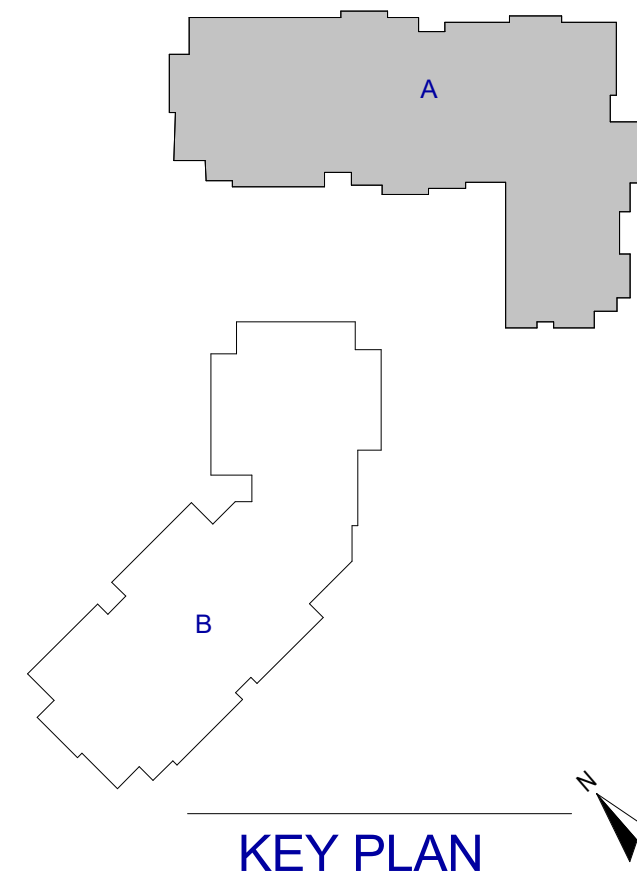
DASHED LINE DENOTES BOTTOM BARS

SINGLE ARROW DENOTES EXTENT OF BAR PLACEMENT. DOUBLE ARROW DENOTES EXTENT TO CONTINUE UNTIL EDGE OF SLAB OR END-OF-ELEMENT (AS APPLICABLE)



C. TYPICAL NOMENCLATURE (SEE **SXXXX**).

D. REINFORCEMENT AT COLUMNS (SEE **SXXXX**).



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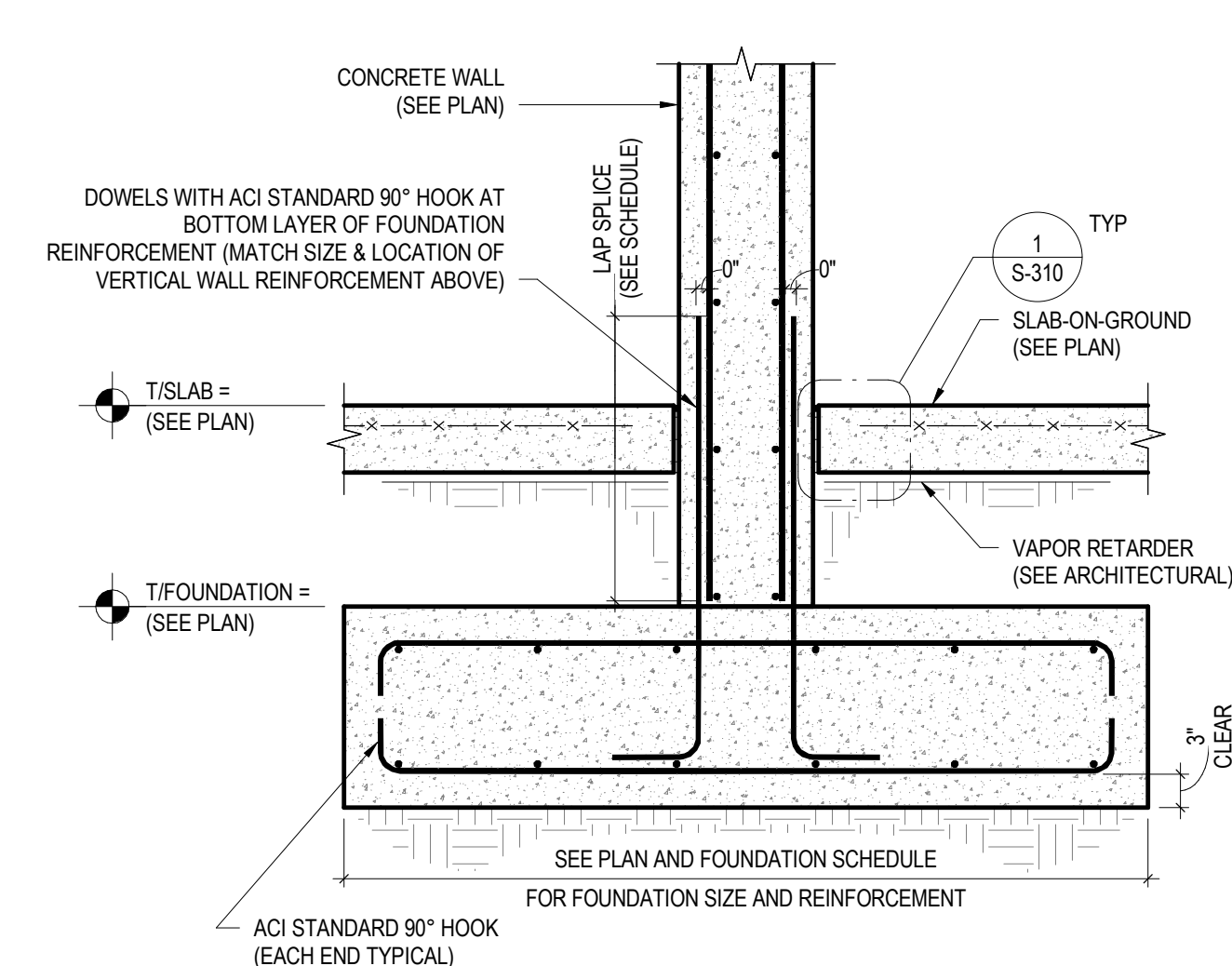
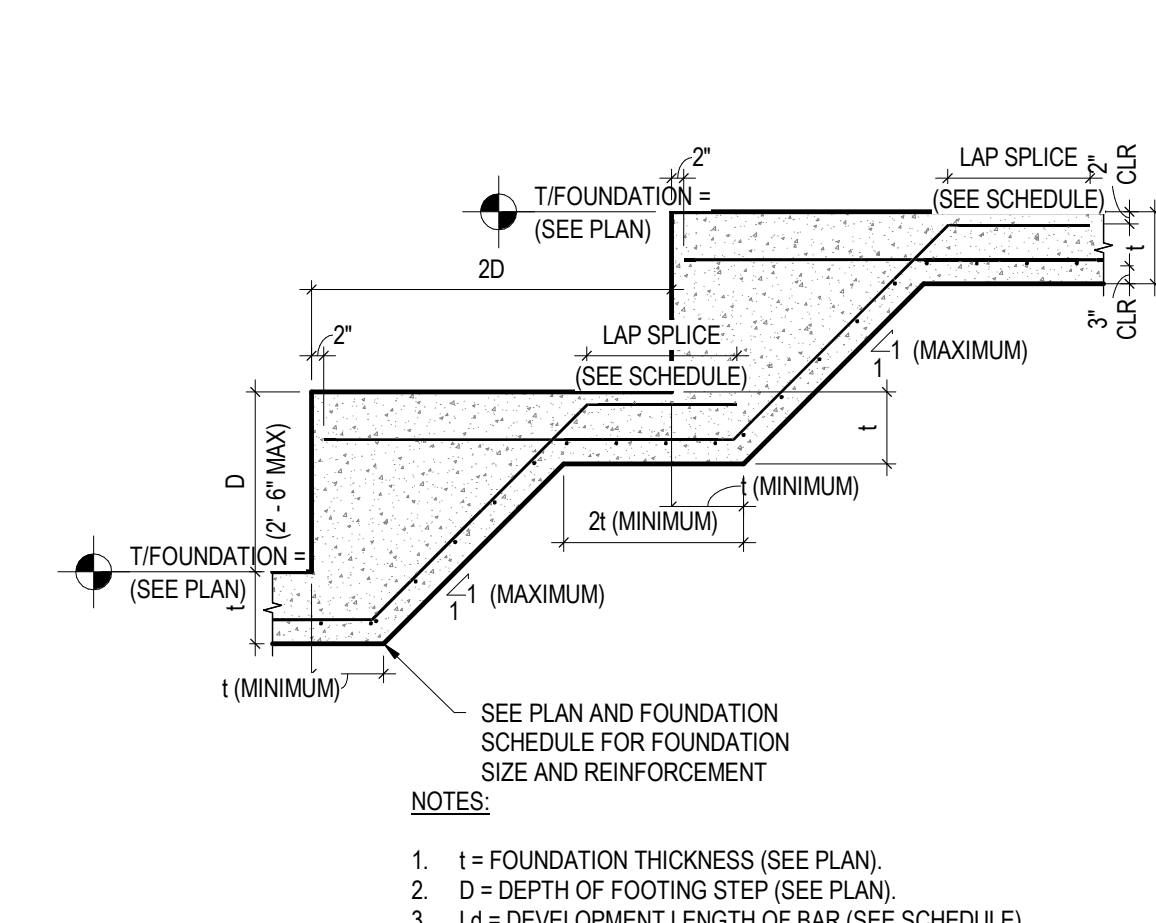
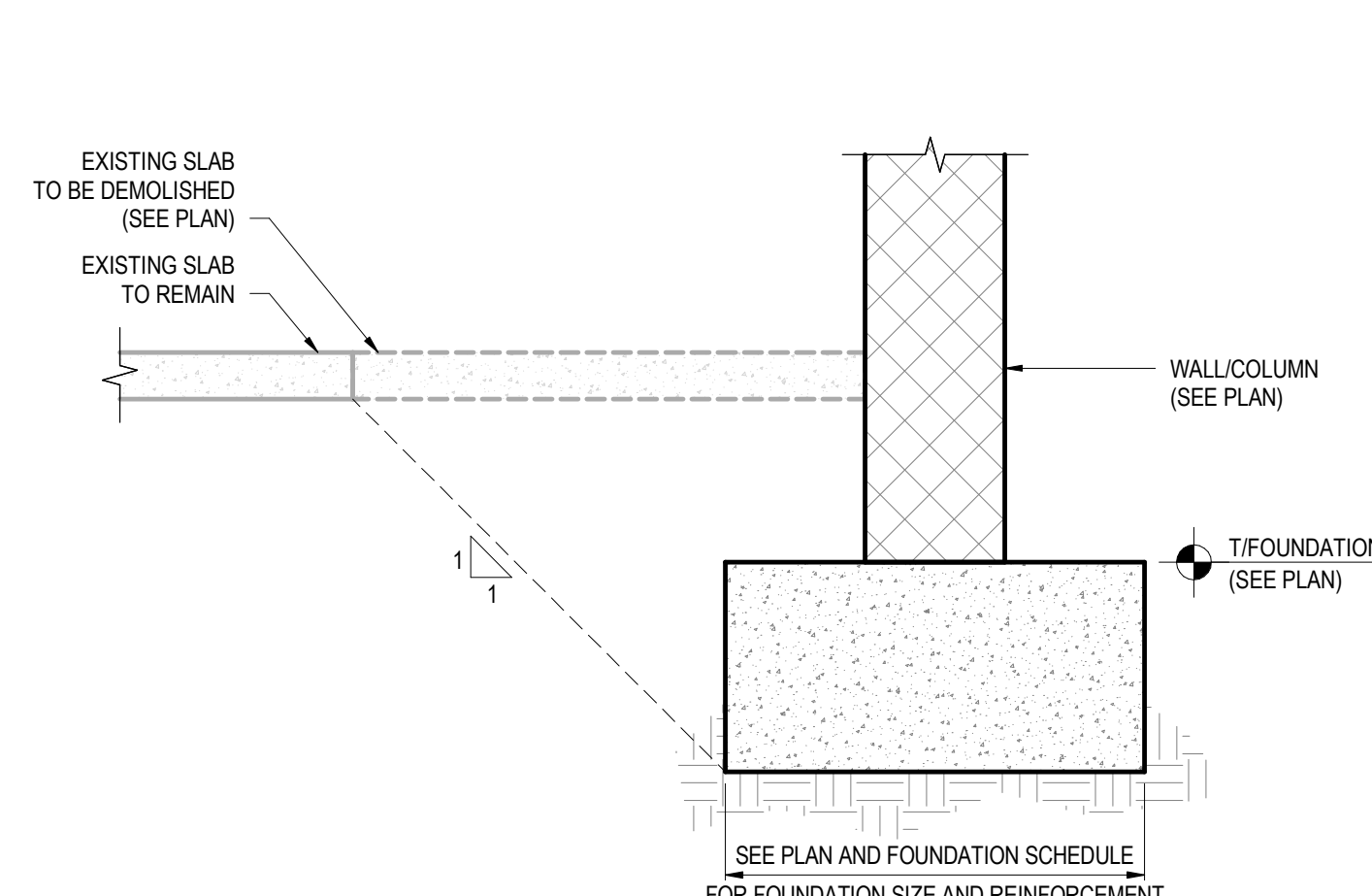
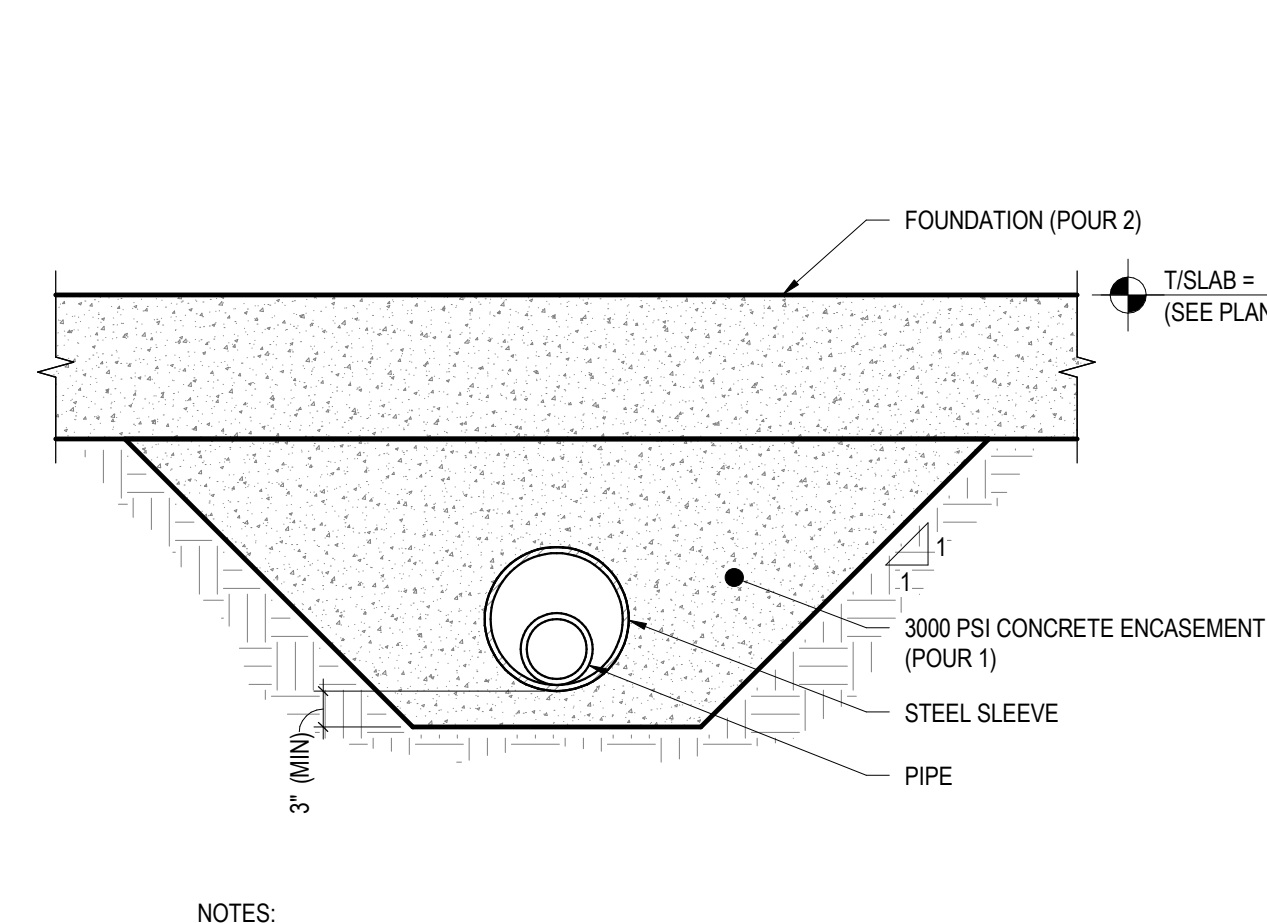
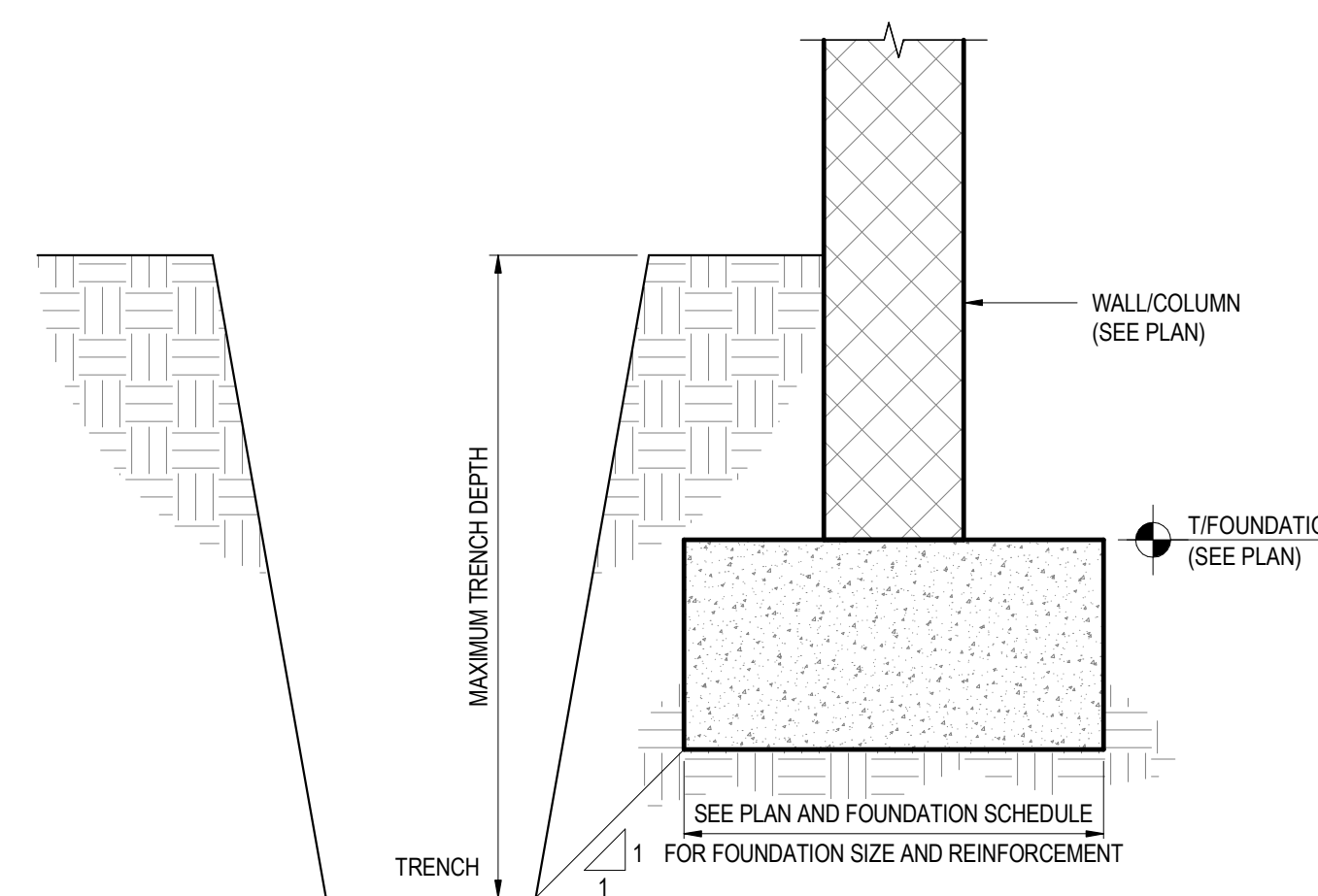
Project No.: 2021009
Date: 08/22/2025

**PARTIAL
ROOF
REINFORCING
PLAN AREA A**

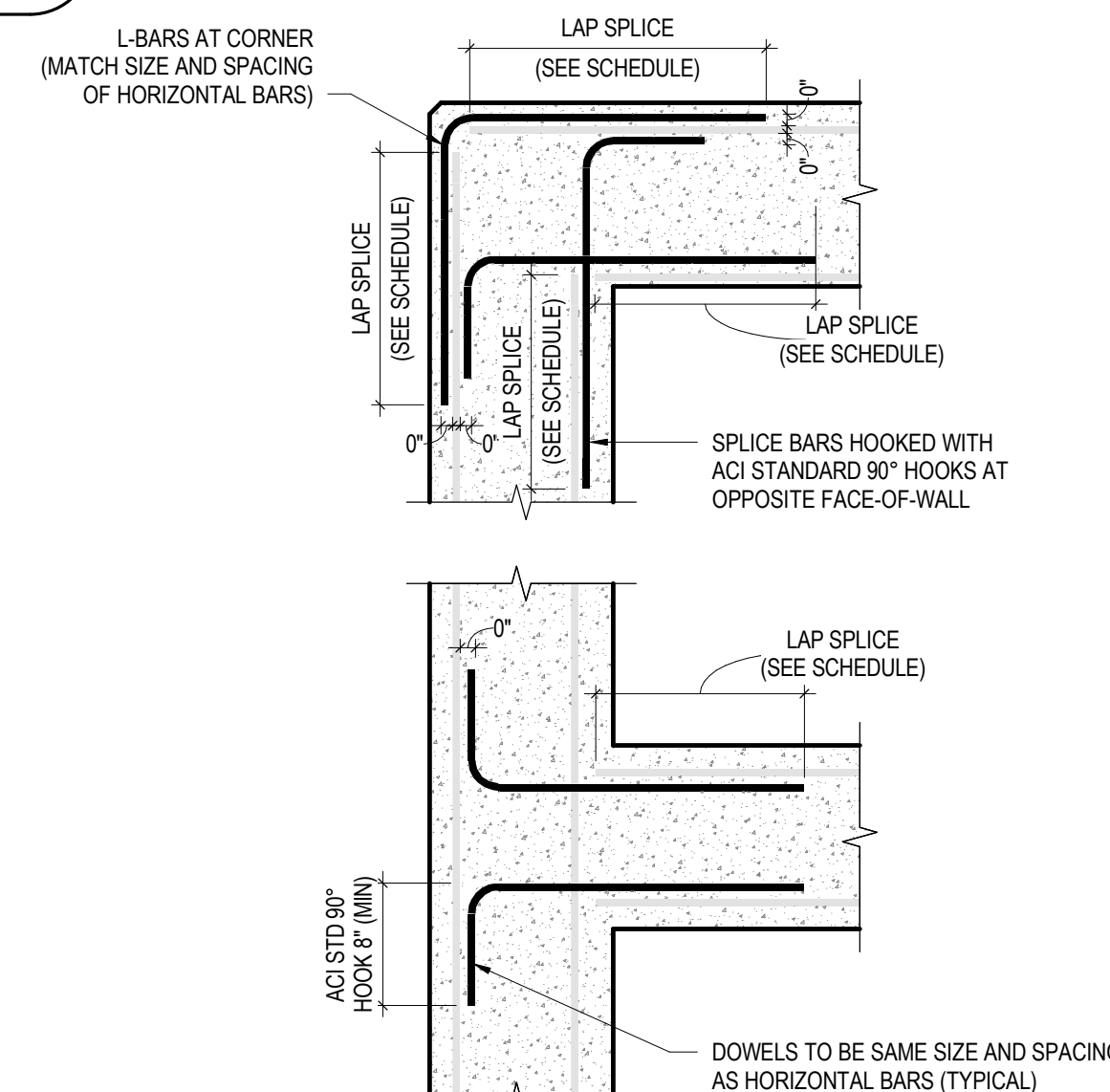
S-145A-R

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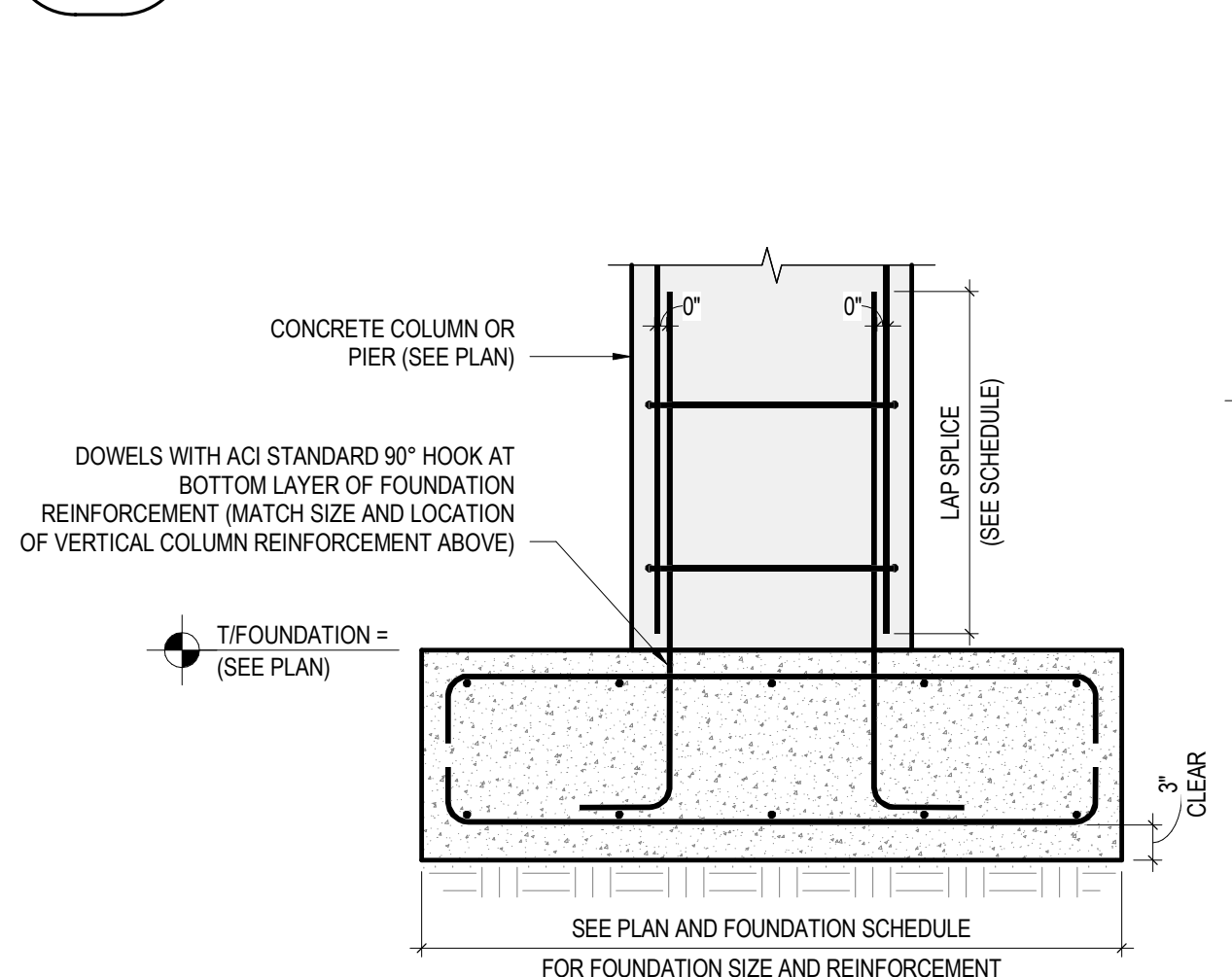
NO.	DATE	DESIGN DEVELOPMENT DESCRIPTION
	08/22/25	DESIGN DEVELOPMENT



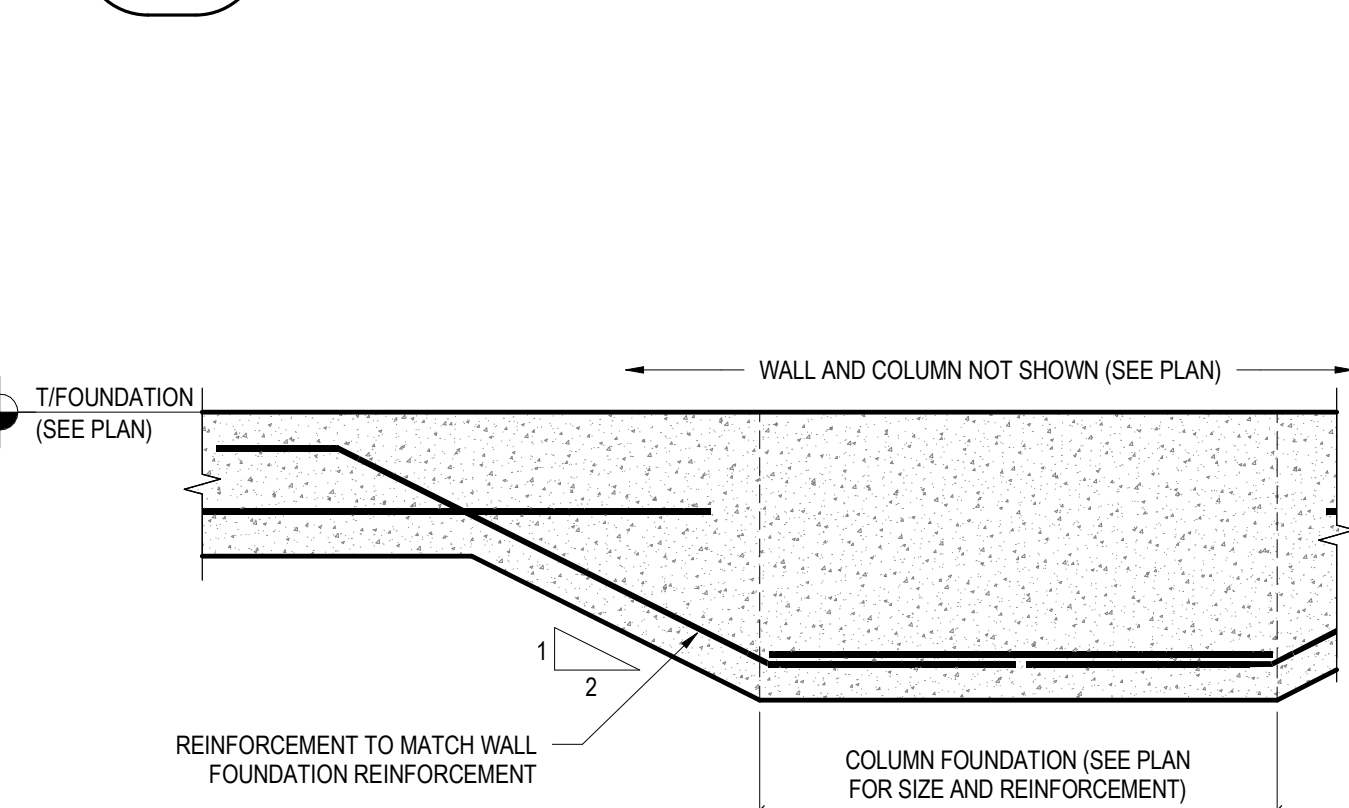
1 FOUNDATION ADJACENT TO TRENCH
S-300 3/4" = 1'-0"



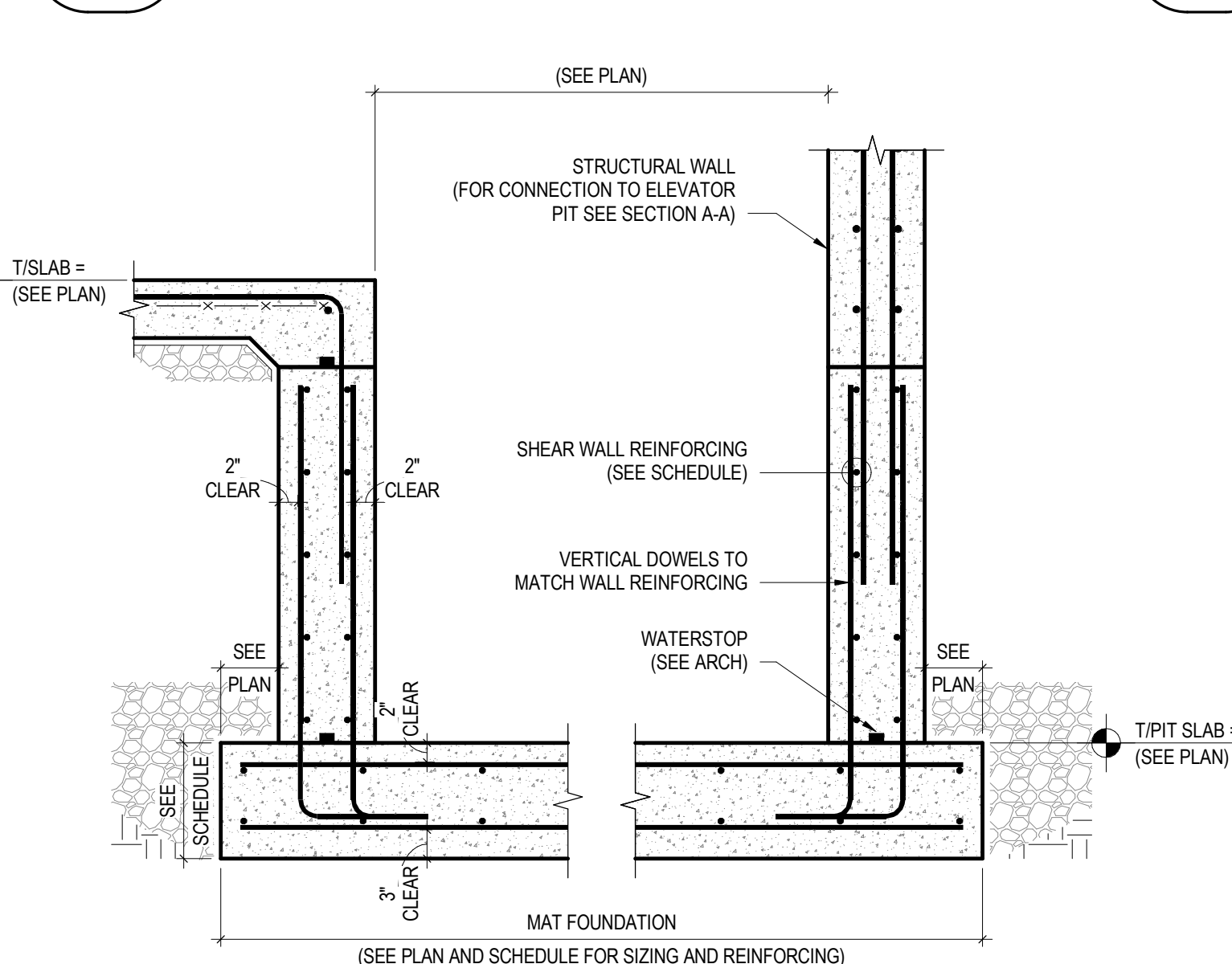
6
S-300
CORNER BARS AT WALLS &
FOUNDATIONS
1" = 1'-0"



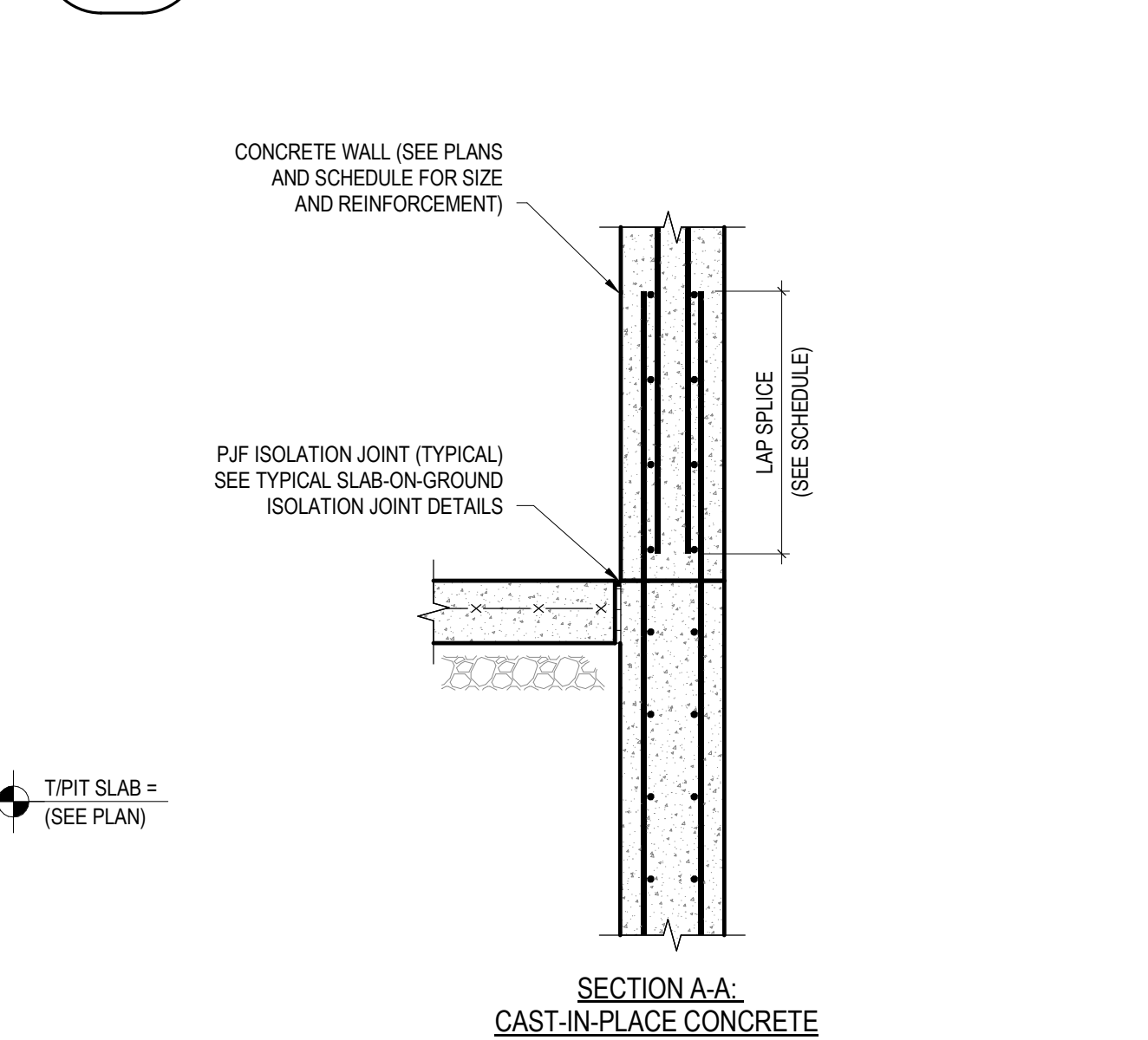
7 CONCRETE COLUMN/PIER FOUNDATION
S-300 3/4" = 1'-0"

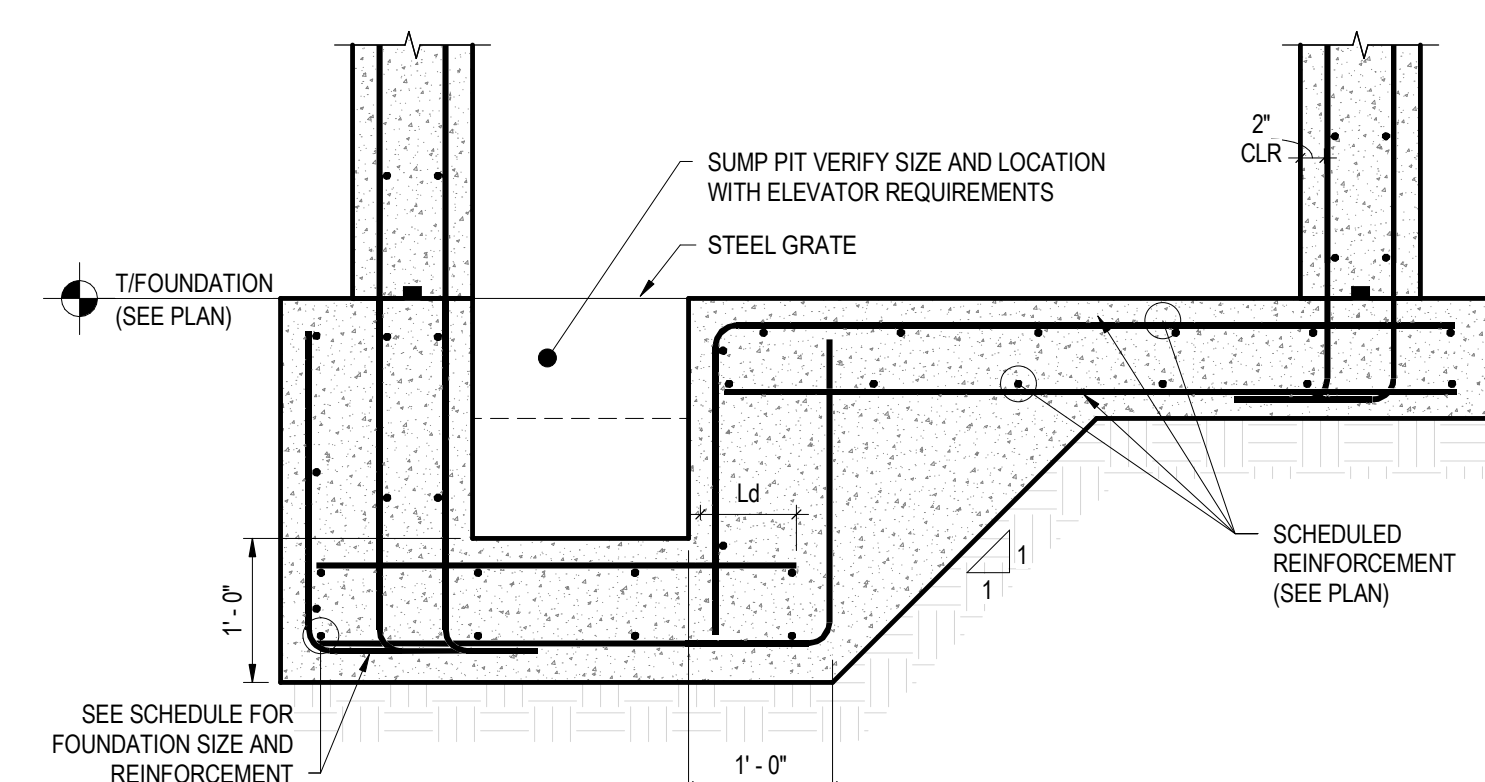


WALL FOUNDATION TO COLUMN
FOUNDATION TRANSITION



9 ELEVATOR PIT
S-300 3/4" = 1'-0"



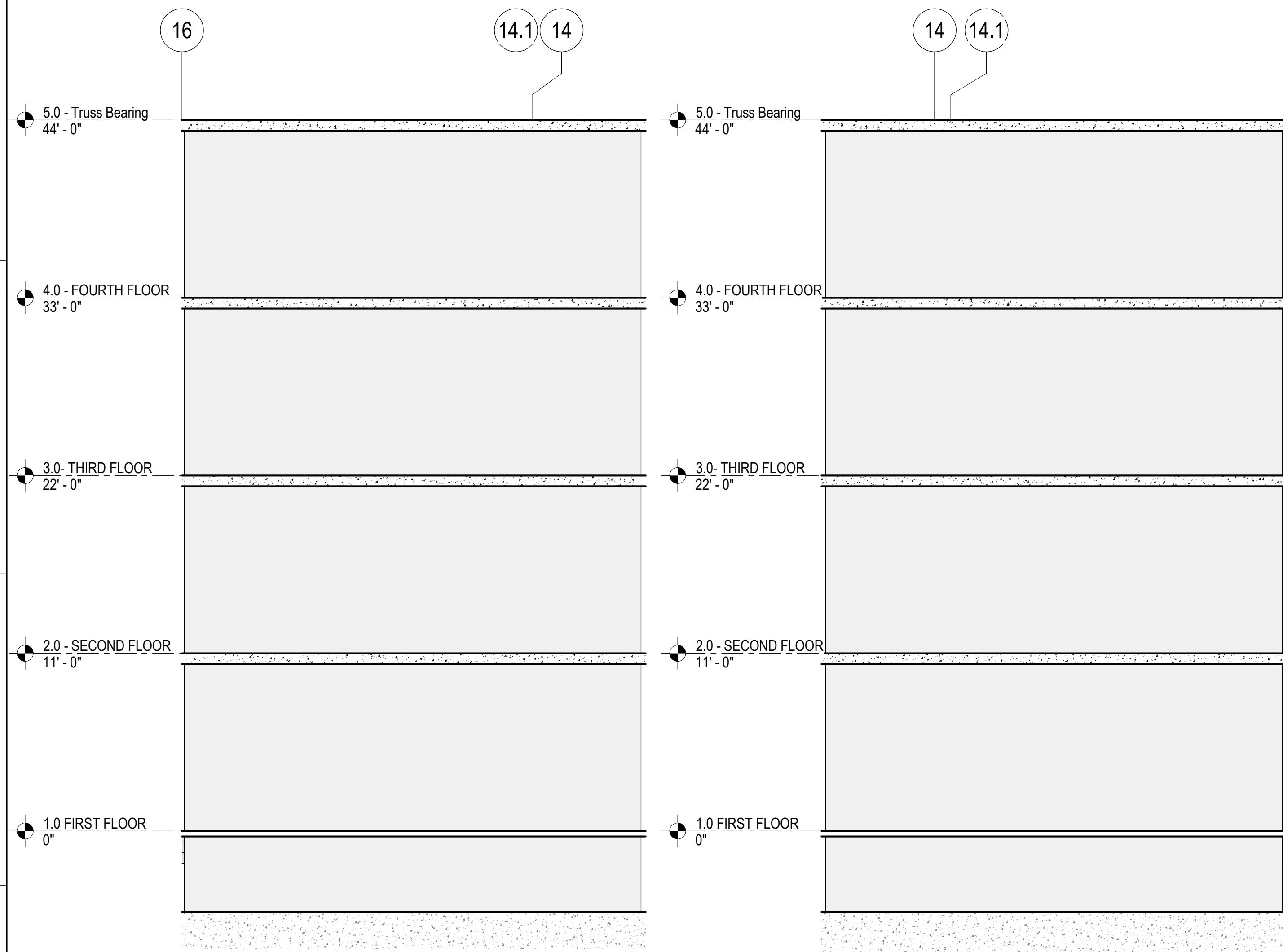


10
S-300

ELEVATOR SUMP PIT

3/4" = 1'-0"

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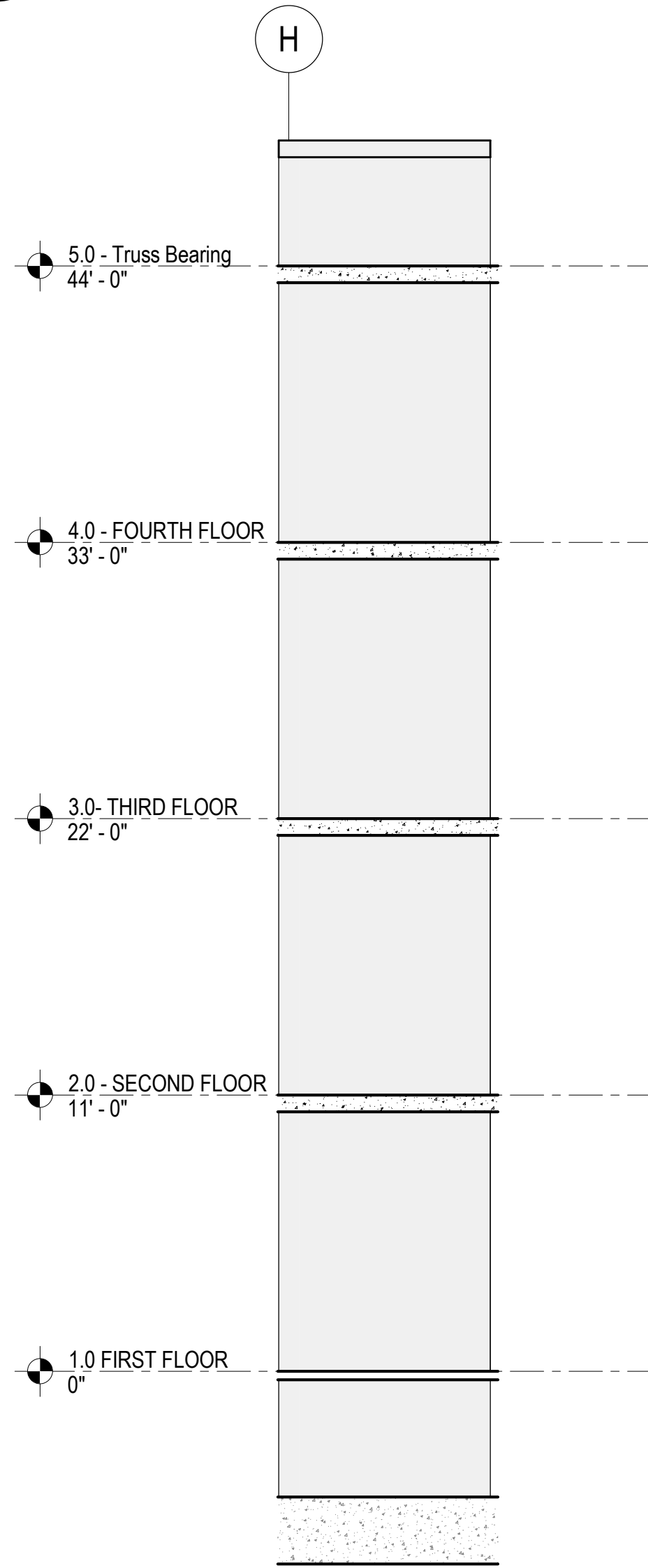


S1-N
S-321 STAIR 1 NORTH WALL ELEVATION
3/16" = 1'-0"

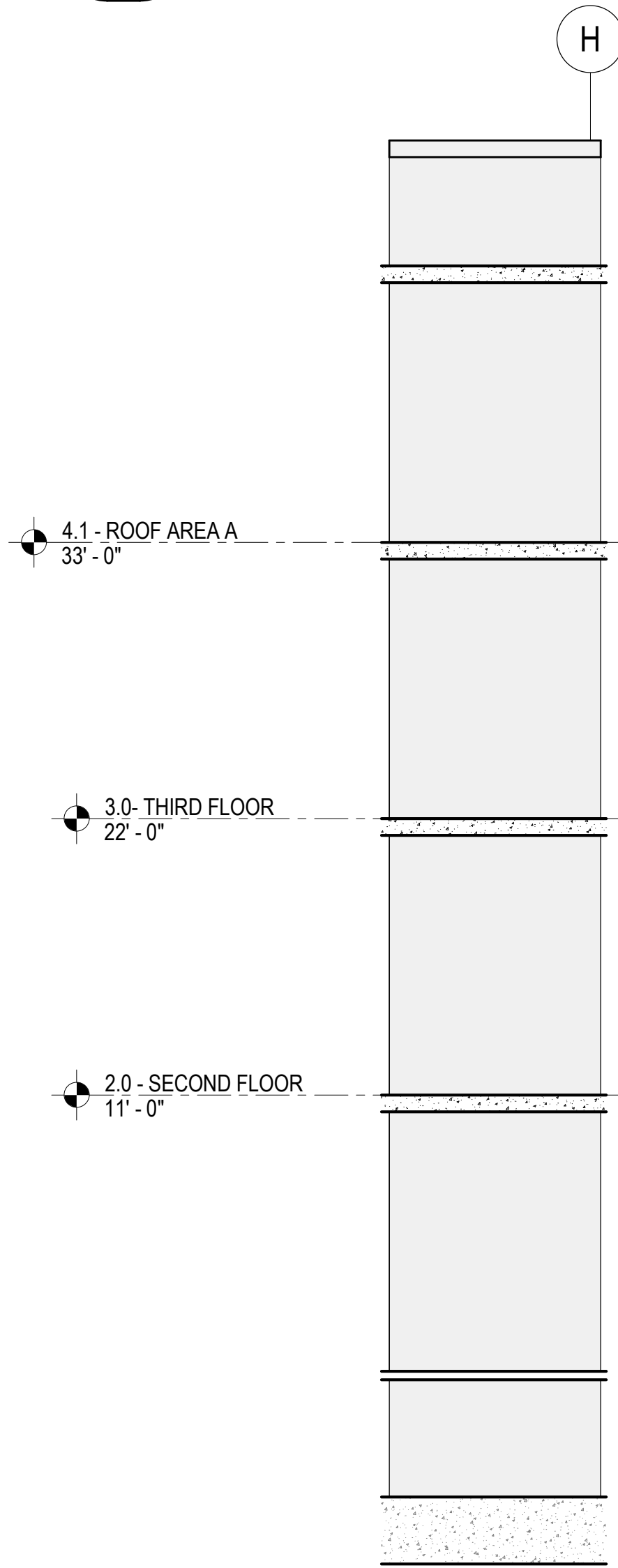
S1-S
S-321 STAIR 1 SOUTH WALL ELEVATION
3/16" = 1'-0"

S1-E
S-321 STAIR 1 EAST WALL ELEVATION
3/16" = 1'-0"

S1-W
S-321 STAIR 1 WEST WALL ELEVATION
3/16" = 1'-0"



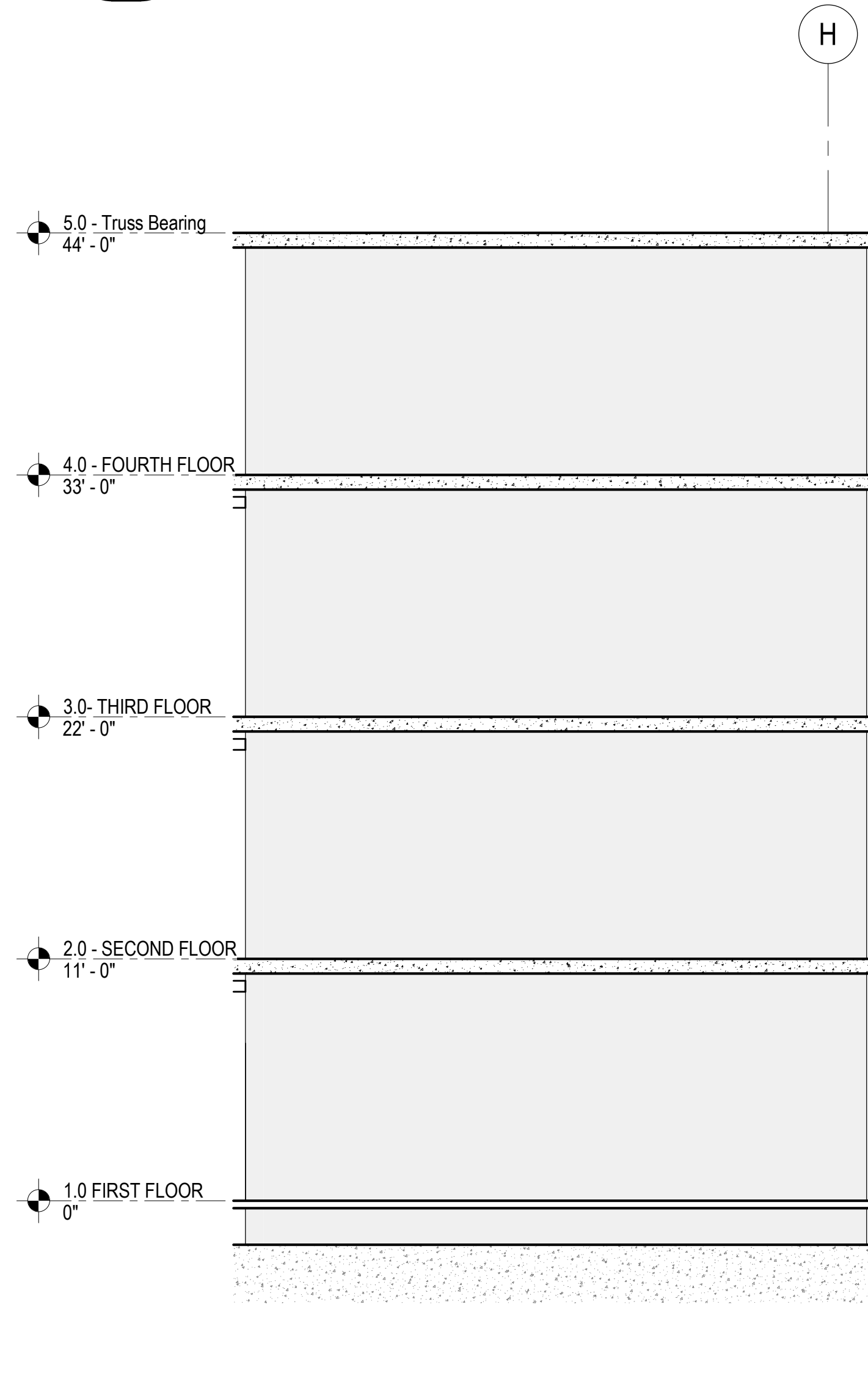
E1-E
S-321 ELEVATOR 1 EAST WALL ELEVATION
3/16" = 1'-0"



E1-W
S-321 ELEVATOR 1 WEST WALL ELEVATION
3/16" = 1'-0"



E1-N
S-321 ELEVATOR 1 NORTH WALL ELEVATION
3/16" = 1'-0"



S2-E
S-321 STAIR 2 EAST WALL ELEVATION
3/16" = 1'-0"

- SHEAR WALL ELEVATION NOTES:**
1. DENOTES 10" WALL THICKNESS
DENOTES 12" WALL THICKNESS
 2. SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENSIONS
 3. SHEAR WALL REINFORCEMENT TAGS:
 - #V##: DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #E##: DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #H##: DENOTES TYPICAL HORIZONTAL REINFORCEMENT (H#12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE ON THIS SHEET))
 - CB##: DENOTES COUPLING BEA, MARK (SEE SCHEDULE ON THIS SHEET)
 4. WHERE NOT SPECIFICALLY NOTED WITH #E## OR CB## REINFORCING, PROVIDE (4)-#7 BARS AT ALL EDGES OF OPENINGS AND ENDS OF WALLS WITH (2) BARS EACH FACE SPACED AT 8" OC. BARS SHALL BE FULLY DEVELOPED FROM THE EDGE OF THE OPENING AND SHALL BE HOOKED AT WALL ENDS WHERE REQUIRED.
 5. ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.
 6. SEE DETAILS ON S-330.
 7. GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEAM OF DISCREPANCIES.

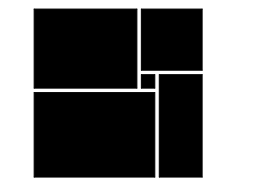
TYPICAL VERTICAL REINFORCING			
MARK	BAR SIZE	BAR SPACING	COMMENTS

VERTICAL CORNER REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

VERTICAL END REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

10" CONCRETE SHEAR WALLS
FOR DO PRICING PURPOSES, ASSUME THE
FOLLOWING MATERIAL QUANTITIES:
• 3.5 PSF CONVENTIONAL REBAR

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Date: 08/22/2025

**CONCRETE
SHEAR WALL
ELEVATIONS -
AREA A**

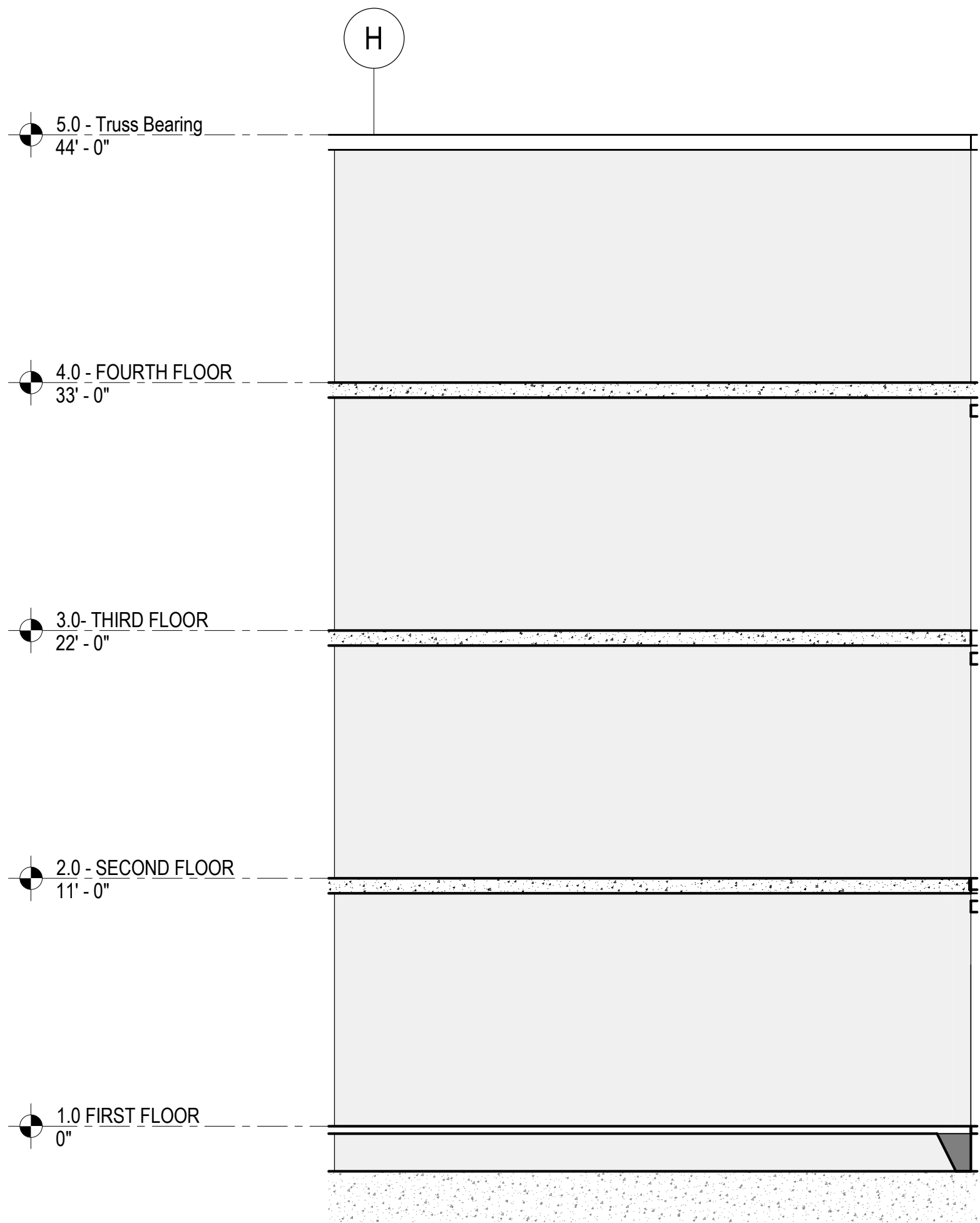
S-321



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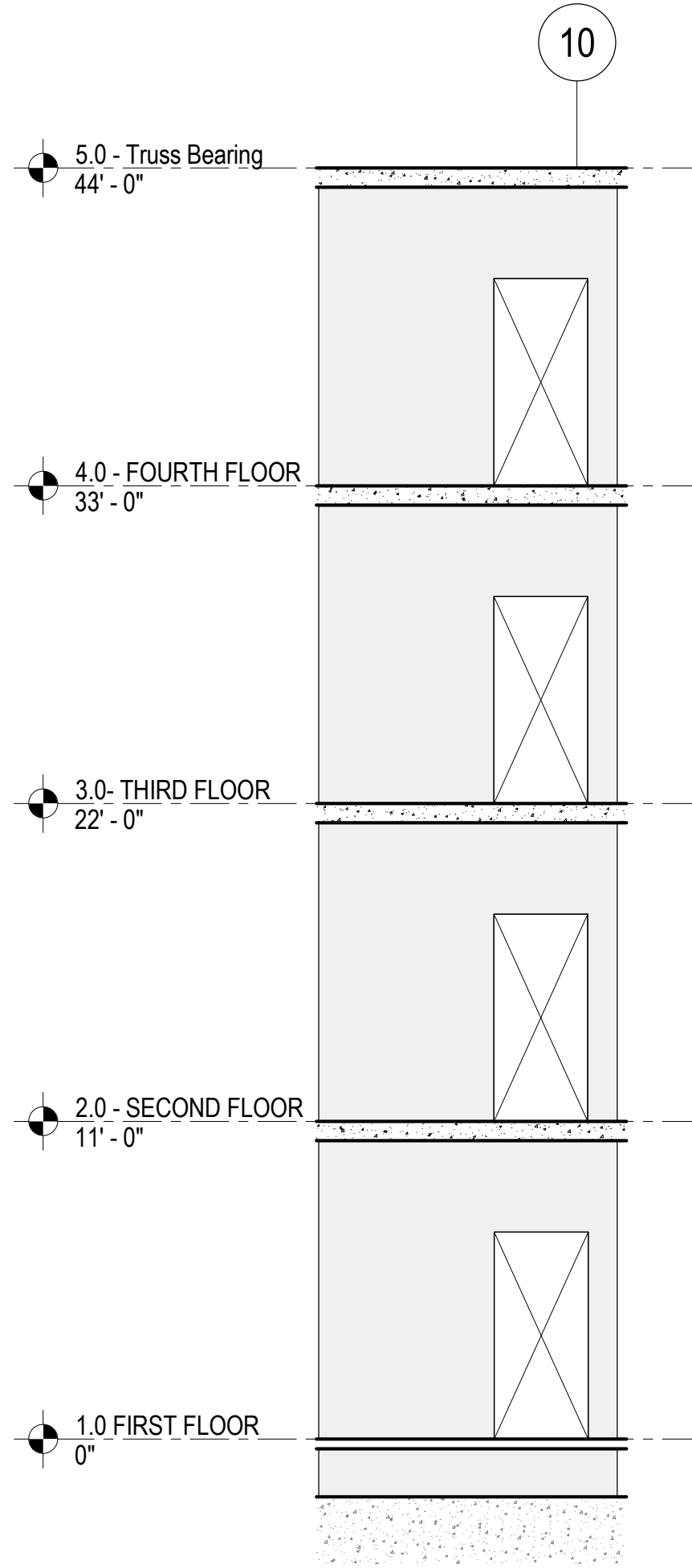
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S2-W
S-322

STAIR 2 WEST WALL ELEVATION

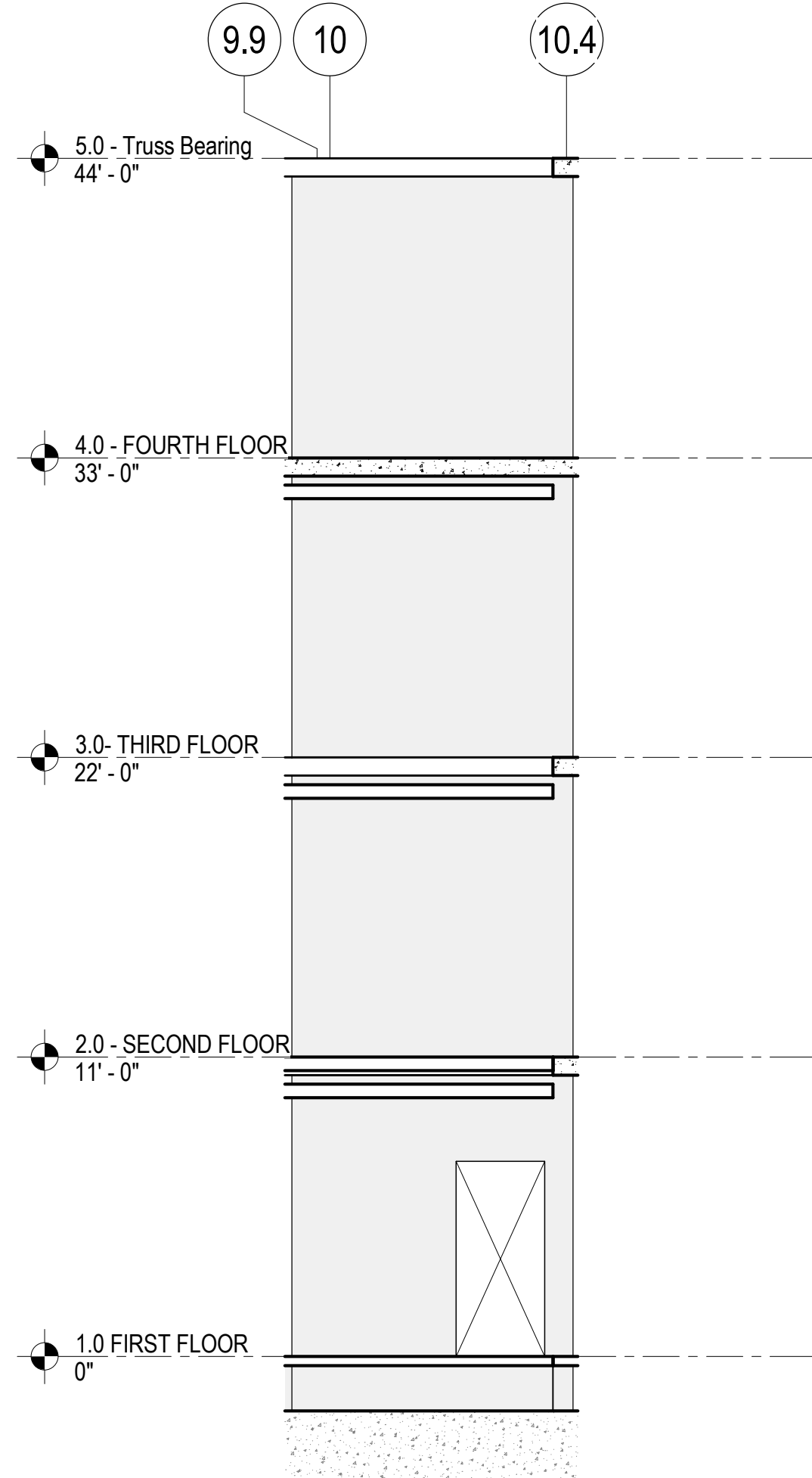
3/16" = 1'-0"



S2-N
S-322

STAIR 2 NORTH WALL ELEVATION

3/16" = 1'-0"



S2-S
S-322

STAIR 2 SOUTH WALL ELEVATION

3/16" = 1'-0"

- SHEAR WALL ELEVATION NOTES:
1. DENOTES 10" WALL THICKNESS
DENOTES 12 WALL THICKNESS
 2. SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENSIONS
 3. SHEAR WALL REINFORCEMENT TAGS:
 - #V## DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #E## DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #H## DENOTES TYPICAL HORIZONTAL REINFORCEMENT (6H12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE ON THIS SHEET)
 - CB## DENOTES COUPLING BEA, MARK (SEE SCHEDULE ON THIS SHEET)
 4. WHERE NOT SPECICALLU NOTED WITH #E## OR CB## REINFORCING, PROVIDE (4)-#7 BARS AT ALL EDGES OF OPENINGS AND ENDS OF WALLS WITH (2) BARS EACH FACE SPACED AT 6" OC. BARS SHALL BE FULLY DEVELOPED FROM THE EDGE OF THE OPENING AND SHALL BE HOOKED AT WALL ENDS WHERE REQUIRED.
 5. ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.
 6. SEE DETAILS ON S-330.
 7. GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEA, OF DISCREPANCIES.

TYPICAL VERTICAL REINFORCING			
MARK	BAR SIZE	BAR SPACING	COMMENTS

VERTICAL CORNER REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

VERTICAL END REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

10" CONCRETE SHEAR WALLS
FOR DO PRICING PURPOSES, ASSUME THE
FOLLOWING MATERIAL QUANTITIES:
• 3.5 PSF CONVENTIONAL REBAR

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CONCRETE
SHEAR WALL
ELEVATIONS -
AREA A

S-322

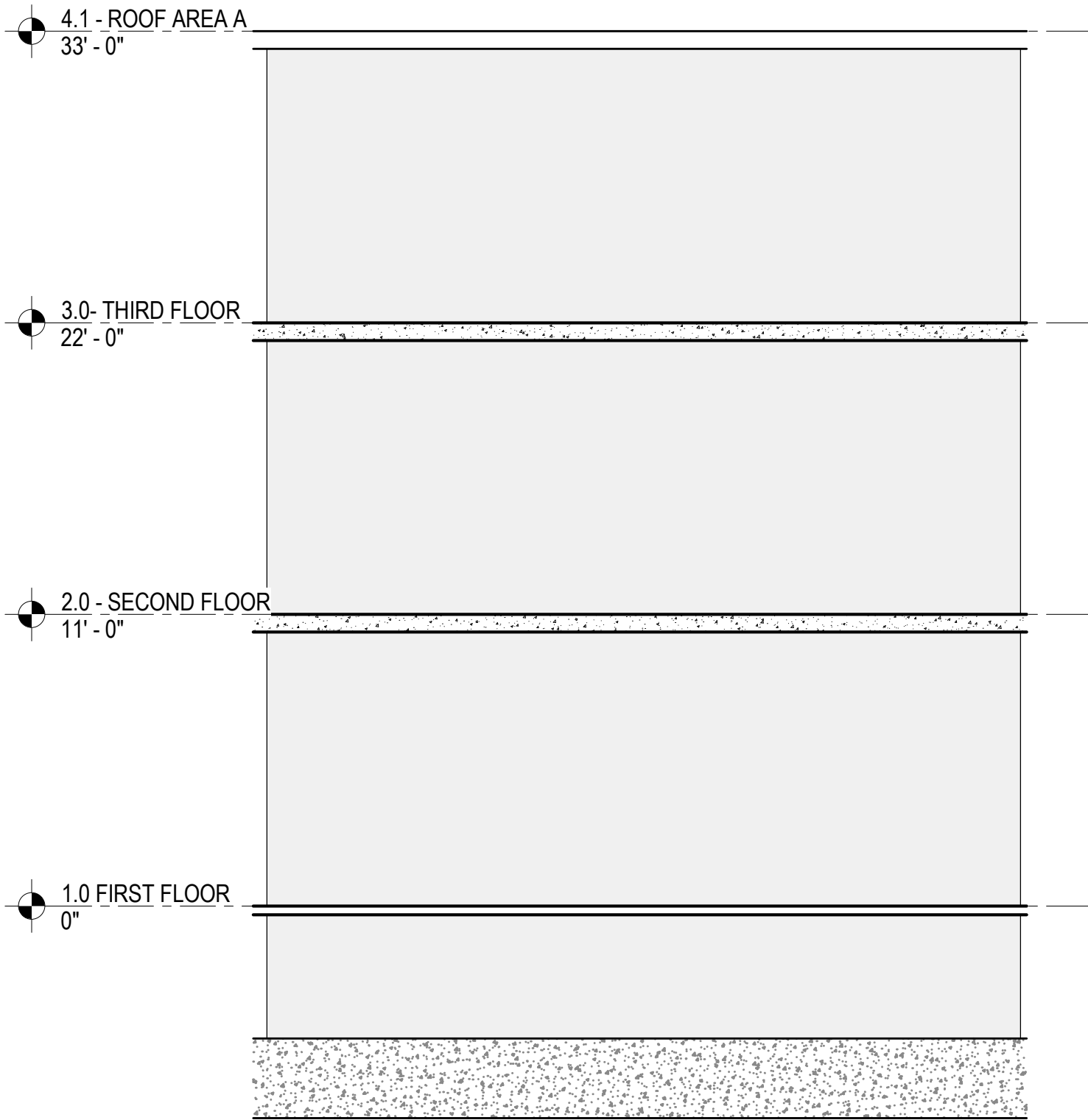


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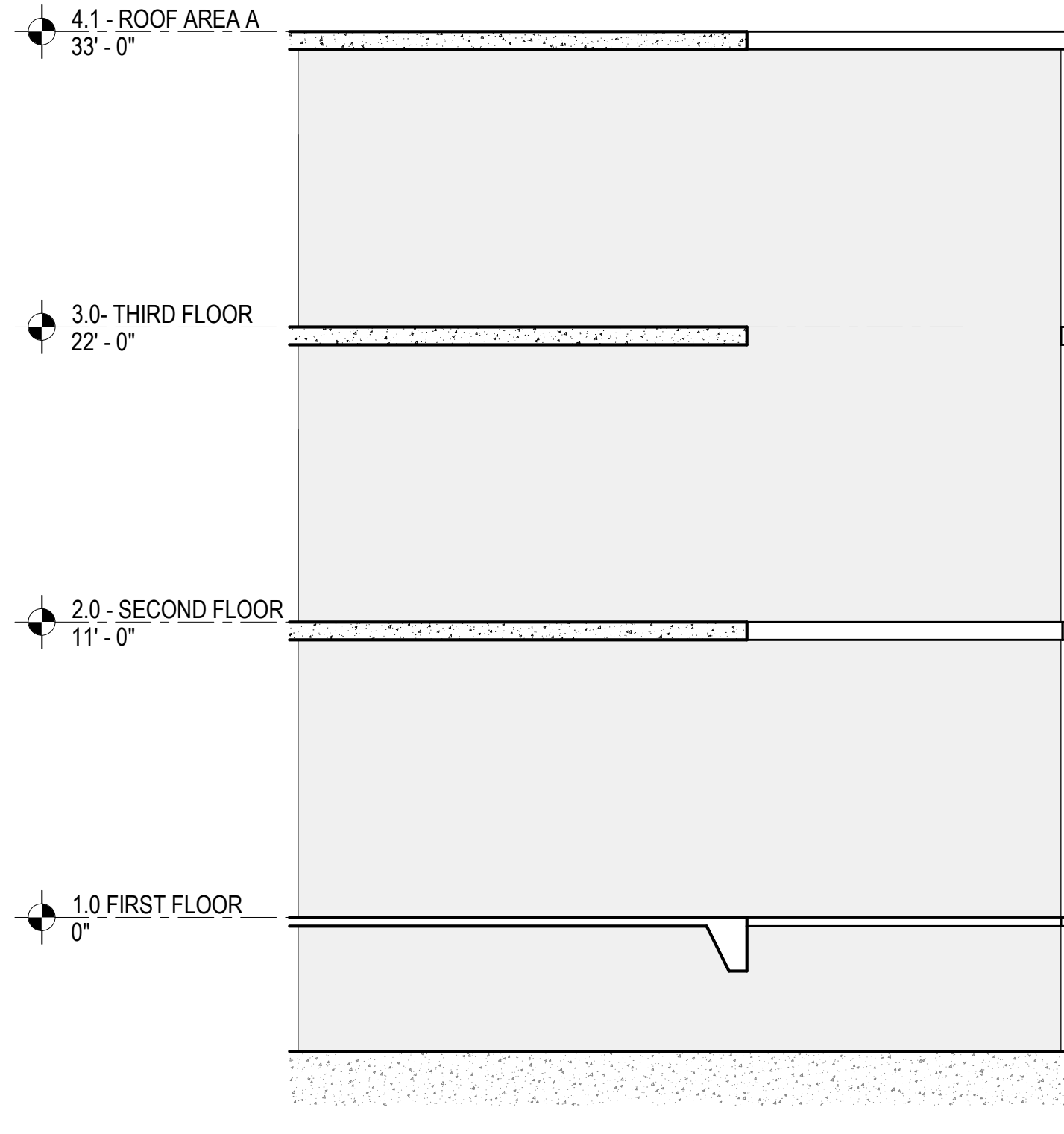
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S3-E
S-323

STAIR 3 EAST WALL ELEVATION

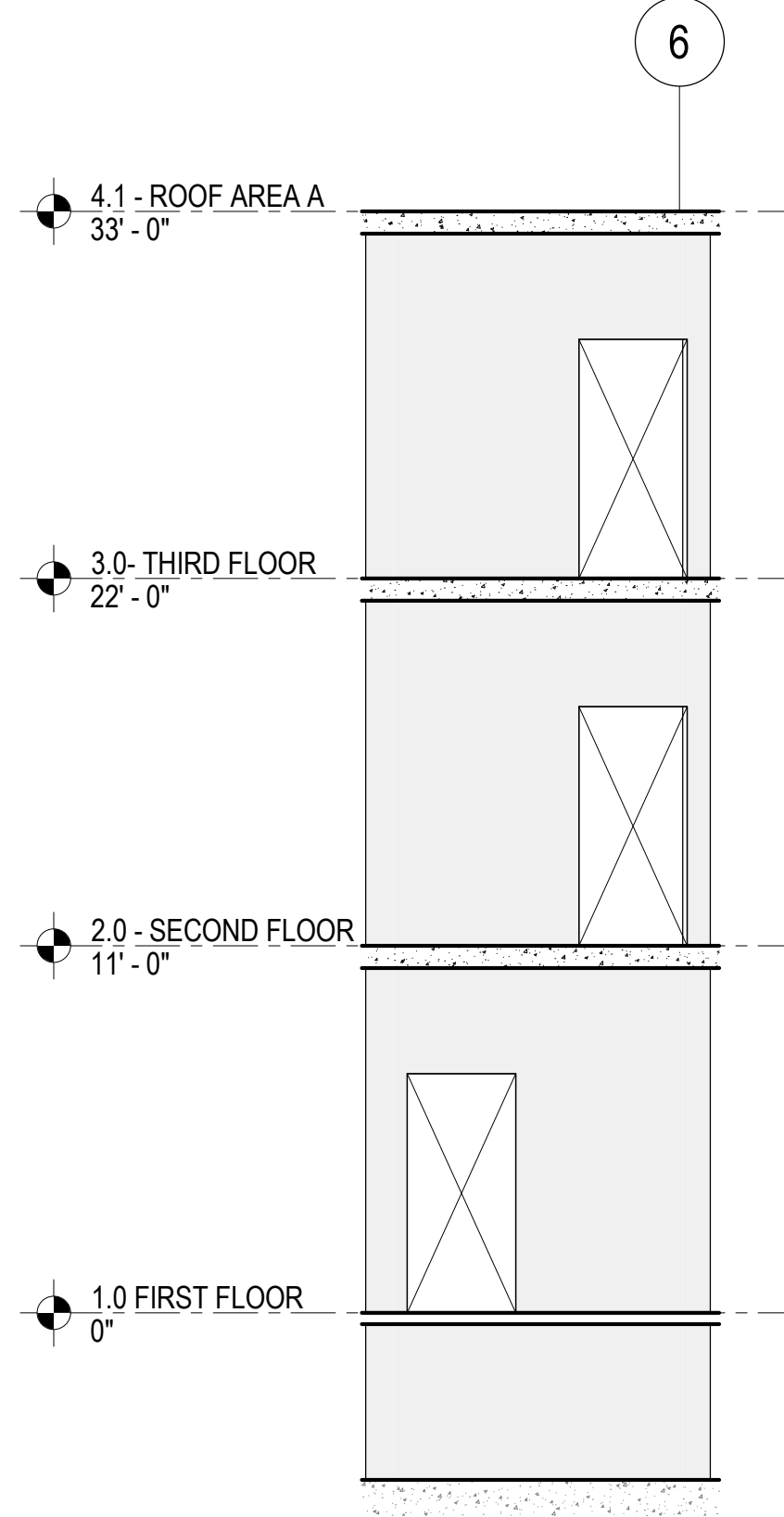
3/16" = 1'-0"



S3-W
S-323

STAIR 3 WEST WALL ELEVATION

3/16" = 1'-0"



S3-N
S-323

STAIR 3 NORTH WALL ELEVATION

3/16" = 1'-0"

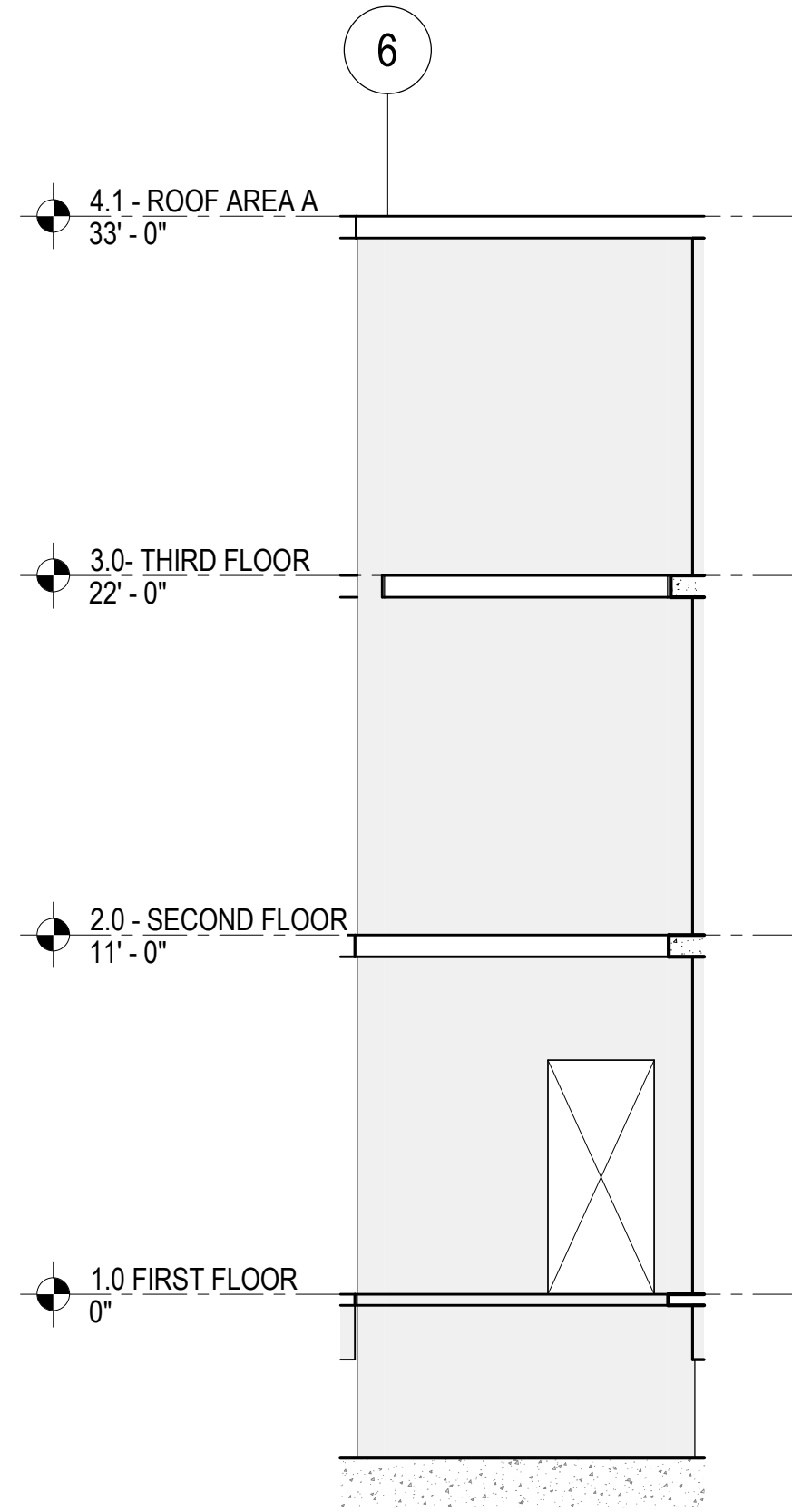
- SHEAR WALL ELEVATION NOTES:**
- DENOTES 10" WALL THICKNESS
 DENOTES 12" WALL THICKNESS
 - SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENSIONS
 - SHEAR WALL REINFORCEMENT TAGS:
 - #V##: DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #E##: DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #H##: DENOTES TYPICAL HORIZONTAL REINFORCEMENT (6#12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE ON THIS SHEET))
 - CB##: DENOTES COUPLING BEA, MARK (SEE SCHEDULE ON THIS SHEET)
 - WHERE NOT SPECIFICALLY NOTED WITH #E## OR CB## REINFORCING, PROVIDE (4)-#7 BARS AT ALL EDGES OF OPENINGS AND ENDS OF WALLS WITH (2) BARS EACH FACE SPACED AT 8" OC. BARS SHALL BE FULLY DEVELOPED FROM THE EDGE OF THE OPENING AND SHALL BE HOOKED AT WALL ENDS WHERE REQUIRED.
 - ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.
 - SEE DETAILS ON S-330.
 - GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEAM OF DISCREPANCIES.

TYPICAL VERTICAL REINFORCING			
MARK	BAR SIZE	BAR SPACING	COMMENTS

VERTICAL CORNER REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

VERTICAL END REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

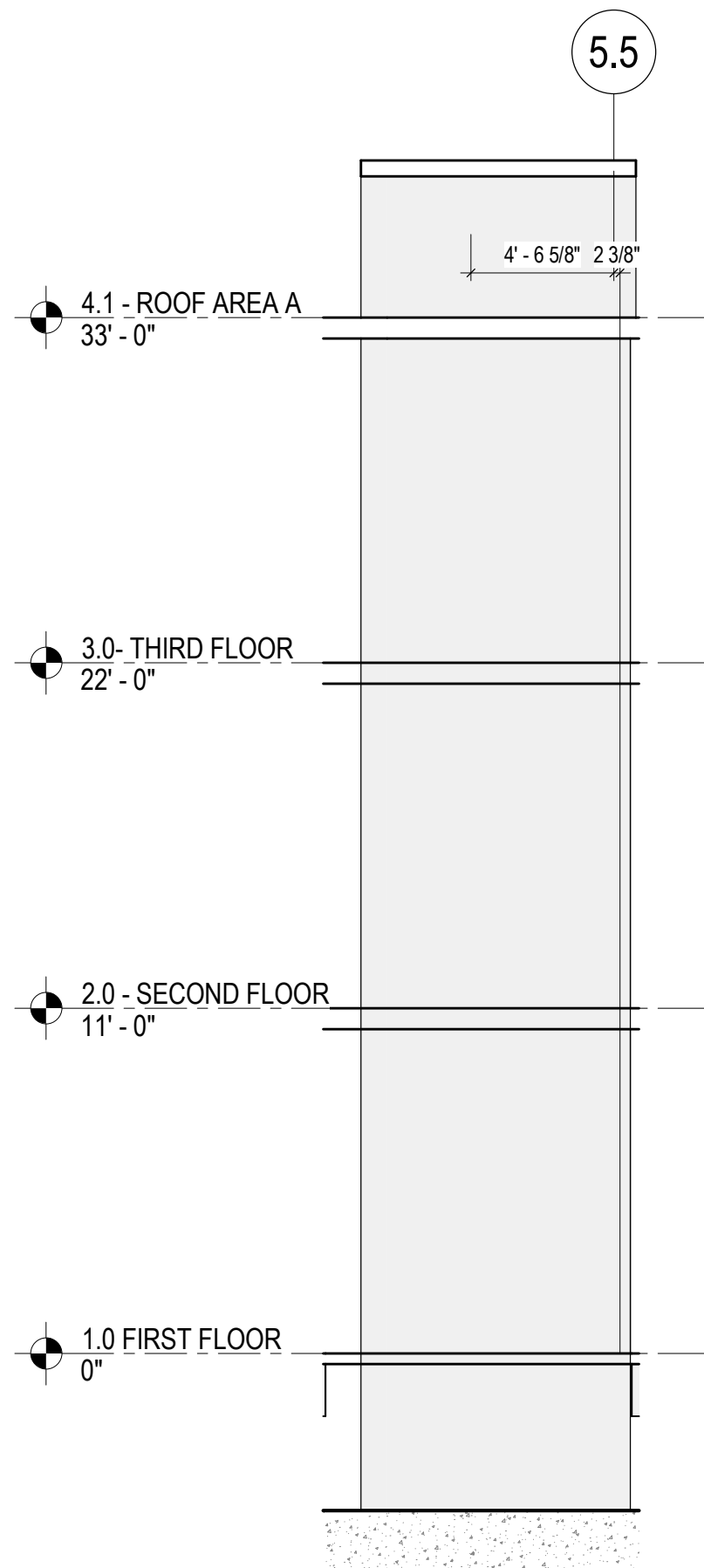
10" CONCRETE SHEAR WALLS
FOR DO PRICING PURPOSES, ASSUME THE
FOLLOWING MATERIAL QUANTITIES:
• 3.5 PSF CONVENTIONAL REBAR



S3-S
S-323

STAIR 3 SOUTH WALL ELEVATION

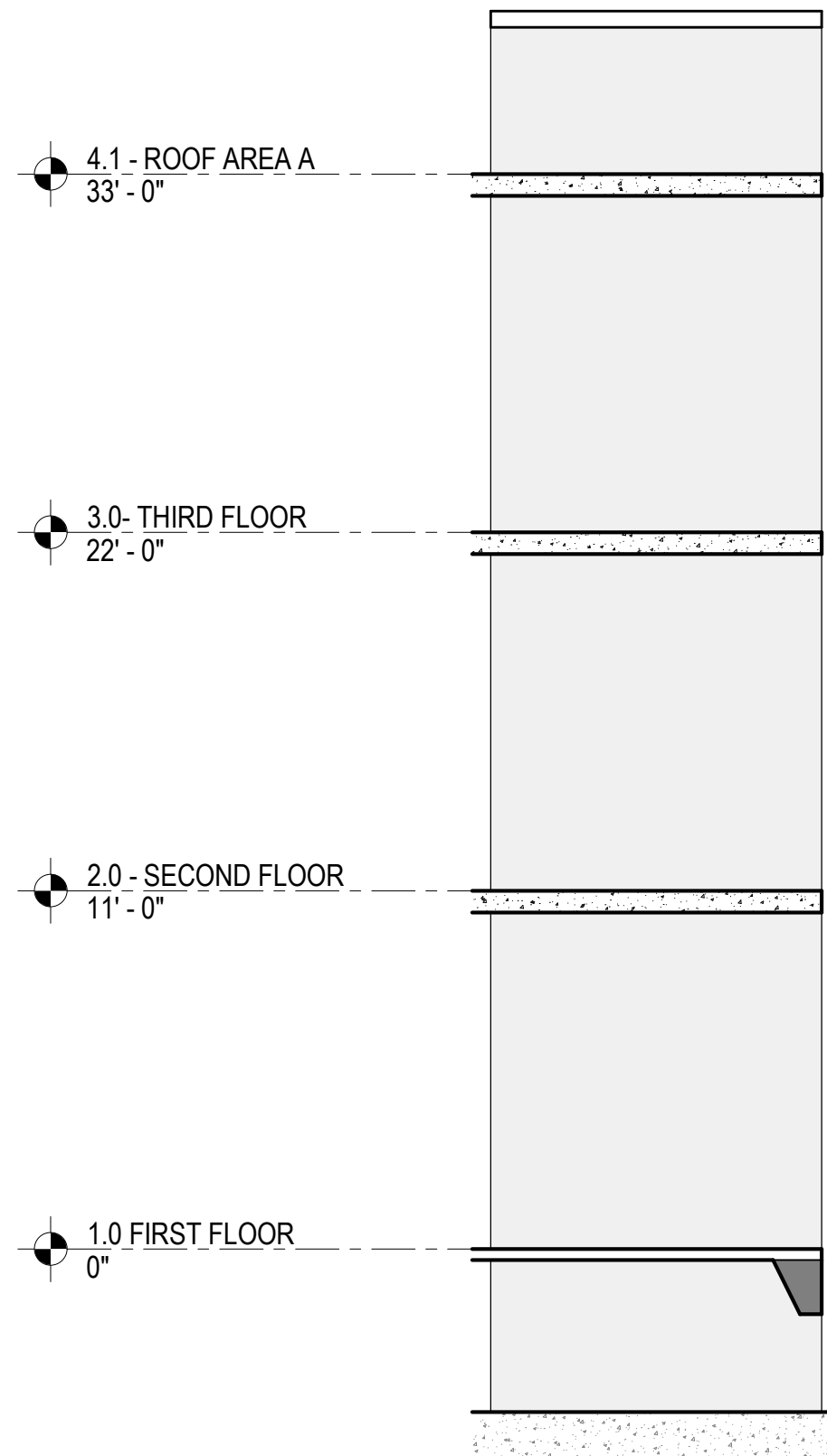
3/16" = 1'-0"



E3-S
S-323

ELEVATOR 3 SOUTH WALL ELEVATION

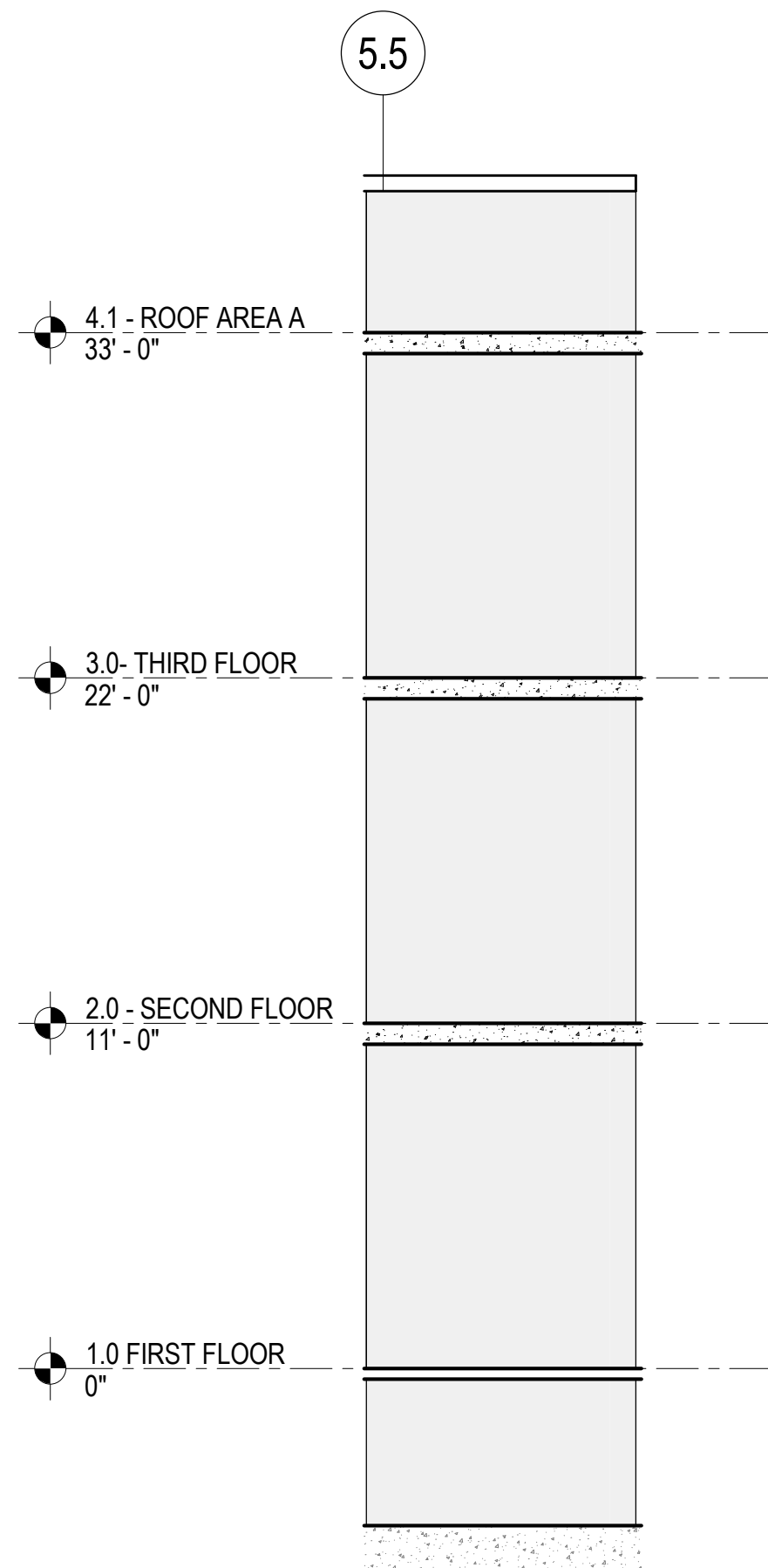
3/16" = 1'-0"



E3-W
S-323

ELEVATOR 3 WEST WALL ELEVATION

3/16" = 1'-0"



E3-N
S-323

ELEVATOR 3 NORTH WALL ELEVATION

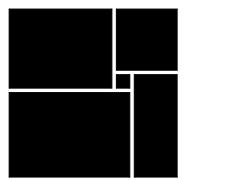
3/16" = 1'-0"



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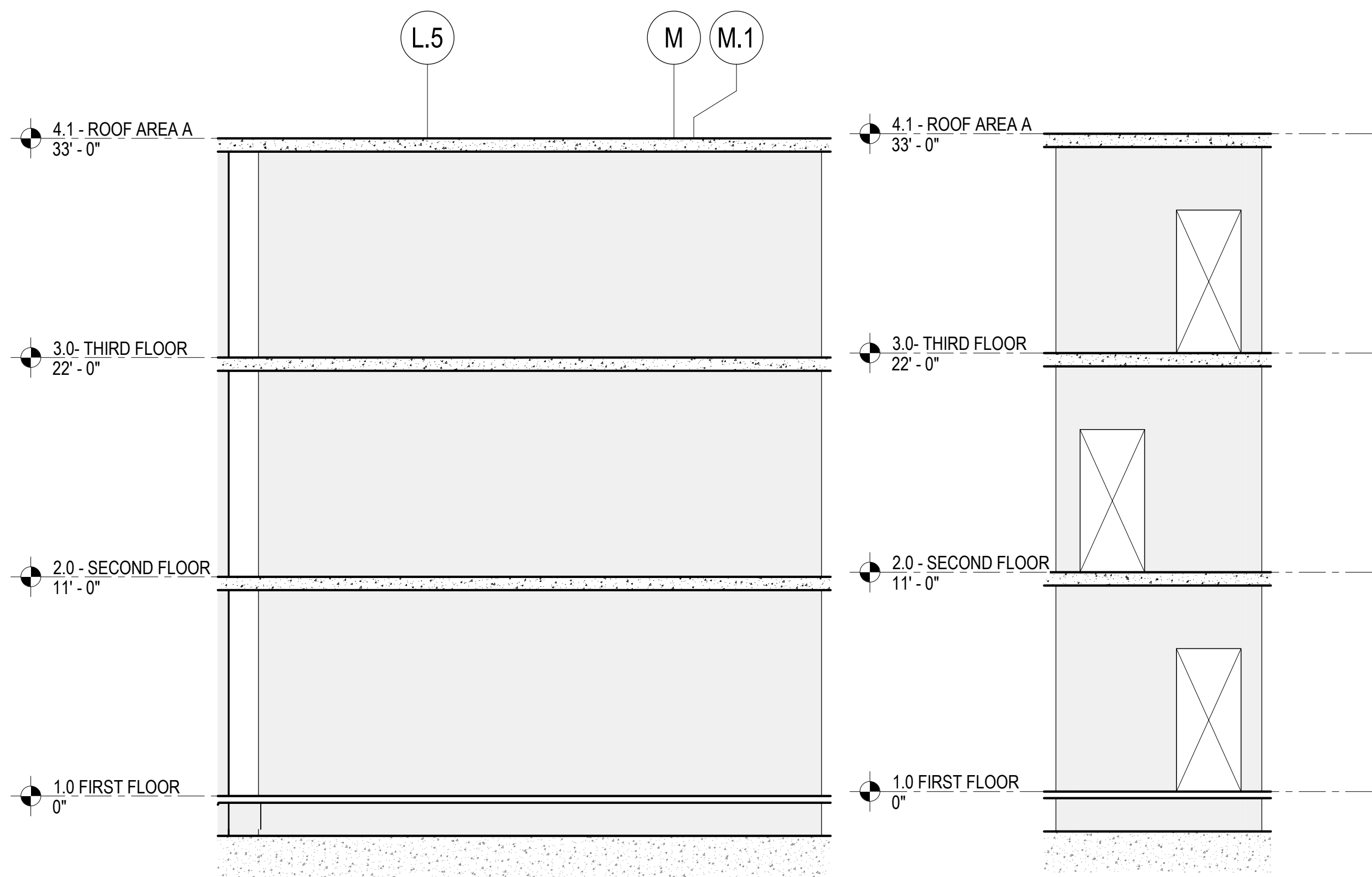
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Project No.: 2021009
Date: 08/22/2025

CONCRETE
SHEAR WALL
ELEVATIONS -
AREA B

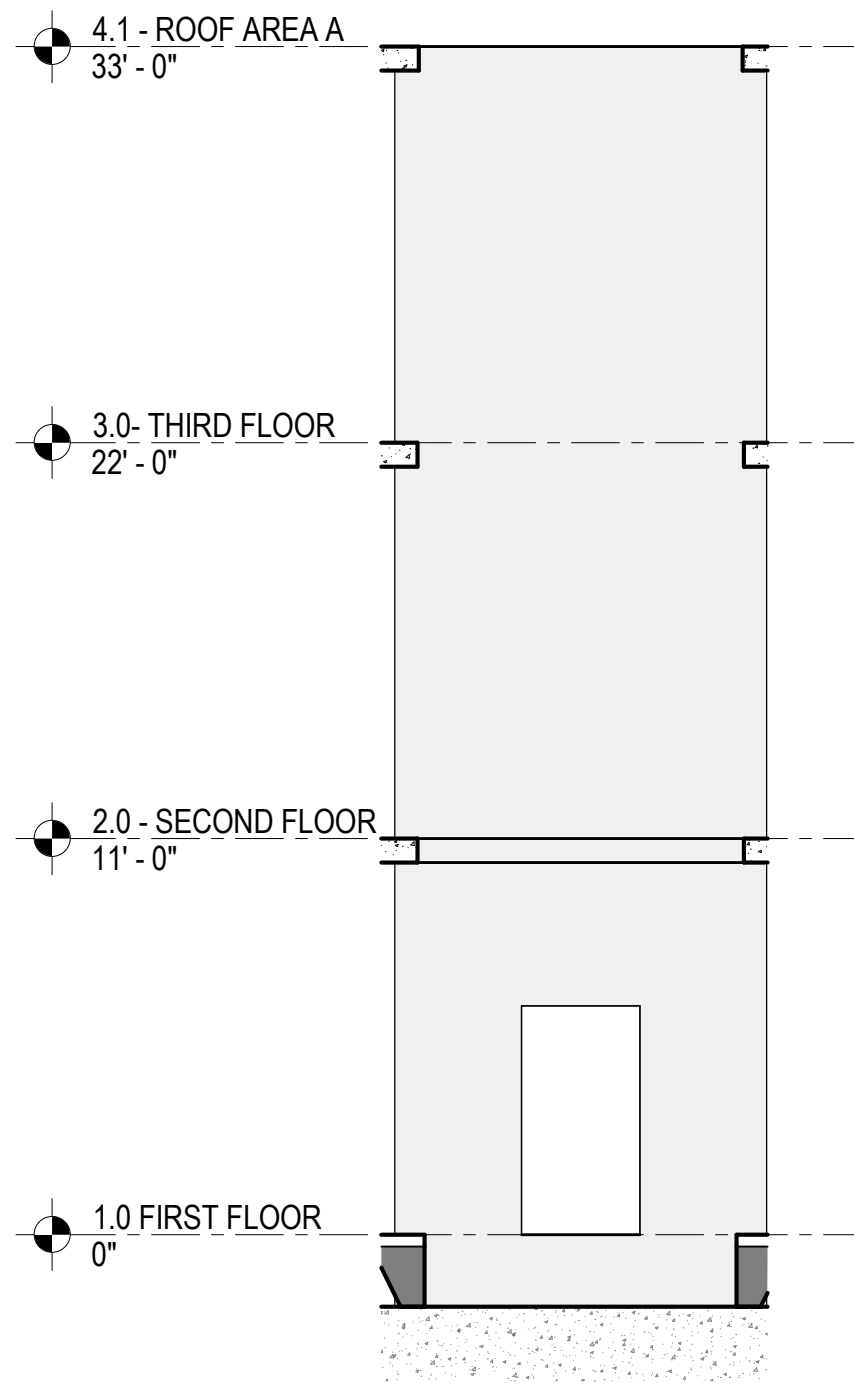
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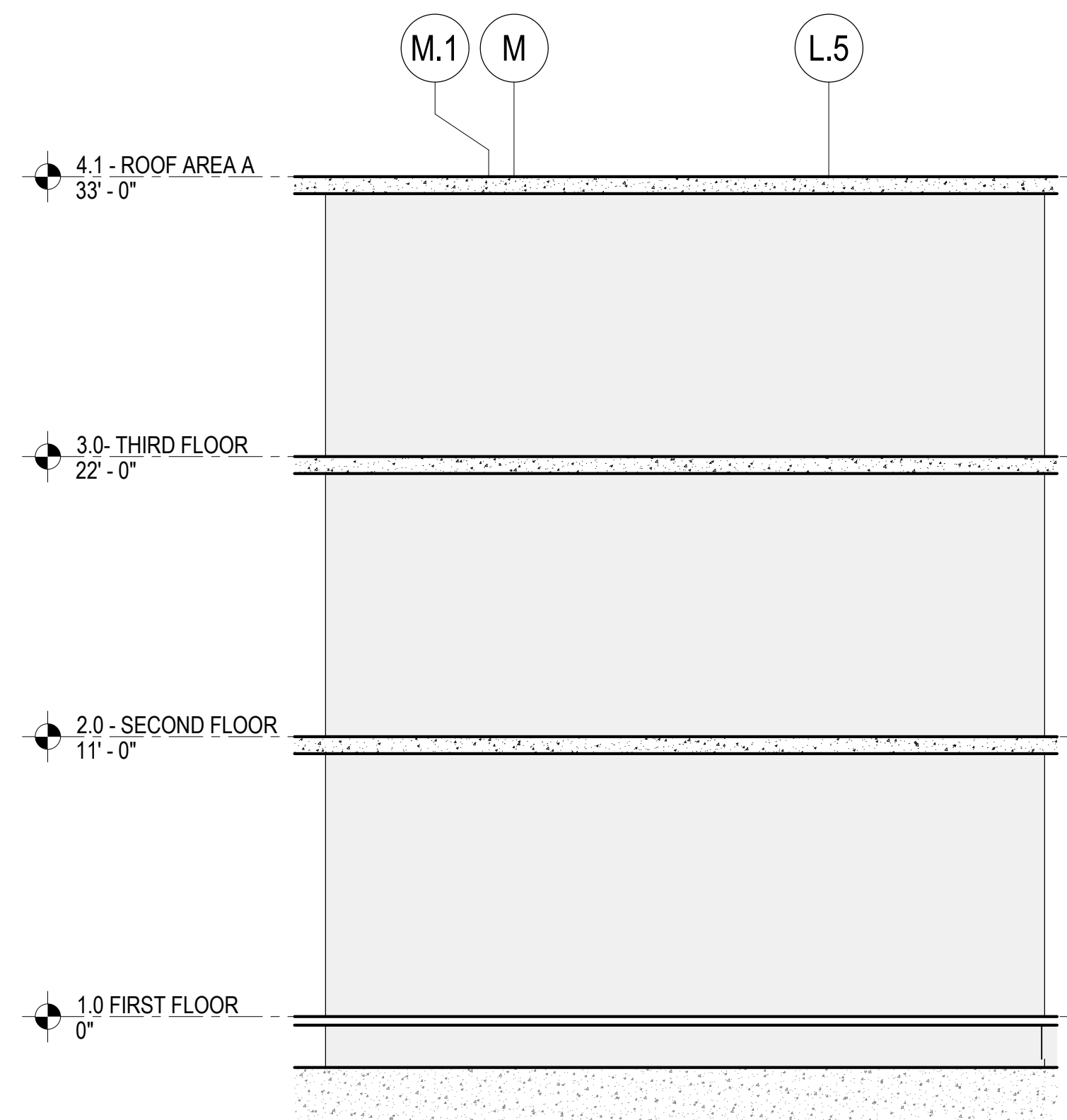


S4-E
S-324 STAIR 4 EAST WALL ELEVATION
3/16" = 1'-0"

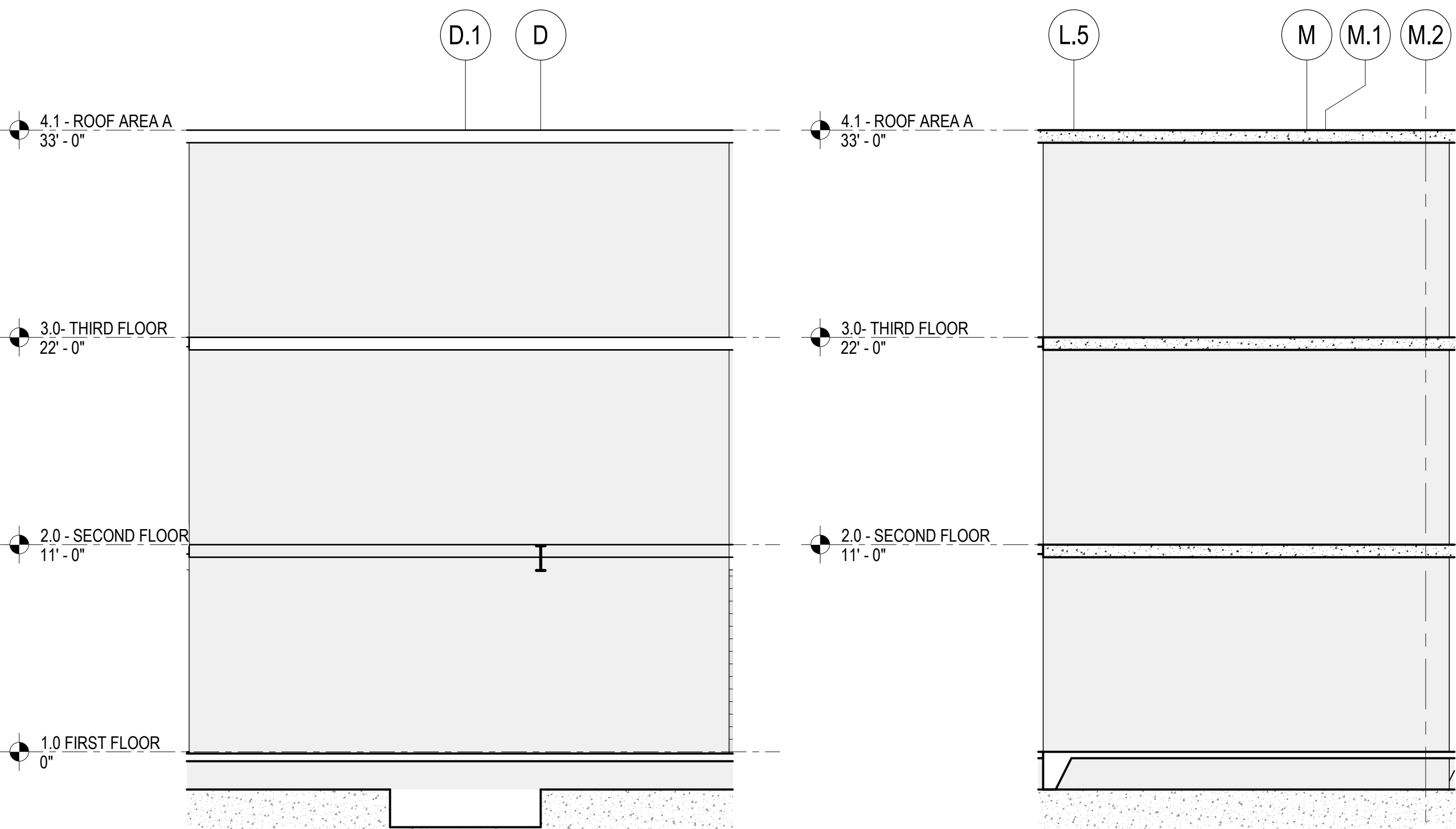
S4-N
S-324 STAIR 4 NORTH WALL ELEVATION
3/16" = 1'-0"



S4-S
S-324 STAIR 4 SOUTH WALL ELEVATION
3/16" = 1'-0"



S4-W
S-324 STAIR 4 WEST WALL ELEVATION
3/16" = 1'-0"



1
S-324 WALL ELEVATION A
3/16" = 1'-0"

2
S-324 WALL ELEVATION M
3/16" = 1'-0"

SHEAR WALL ELEVATION NOTES:

1. DENOTES 10" WALL THICKNESS
 DENOTES 12" WALL THICKNESS
2. SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENSIONS
3. SHEAR WALL REINFORCEMENT TAGS:
 - #V##: DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #E##: DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
 - #H##: DENOTES TYPICAL HORIZONTAL REINFORCEMENT (6#12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE ON THIS SHEET))
 - CB##: DENOTES COUPLING BEA, MARK (SEE SCHEDULE ON THIS SHEET)
4. WHERE NOT SPECIFICALLY NOTED WITH #E## OR CB## REINFORCING, PROVIDE (4)-#7 BARS AT ALL EDGES OF OPENINGS AND ENDS OF WALLS WITH (2) BARS EACH FACE SPACED AT 8" OC. BARS SHALL BE FULLY DEVELOPED FROM THE EDGE OF THE OPENING AND SHALL BE HOOKED AT WALL ENDS WHERE REQUIRED.
5. ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.
6. SEE DETAILS ON S-330.
7. GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEAM OF DISCREPANCIES.

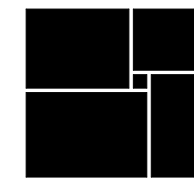
TYPICAL VERTICAL REINFORCING			
MARK	BAR SIZE	BAR SPACING	COMMENTS

VERTICAL CORNER REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

VERTICAL END REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

10" CONCRETE SHEAR WALLS
FOR DO PRICING PURPOSES, ASSUME THE
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**CONCRETE
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ELEVATIONS -
AREA B**

S-324



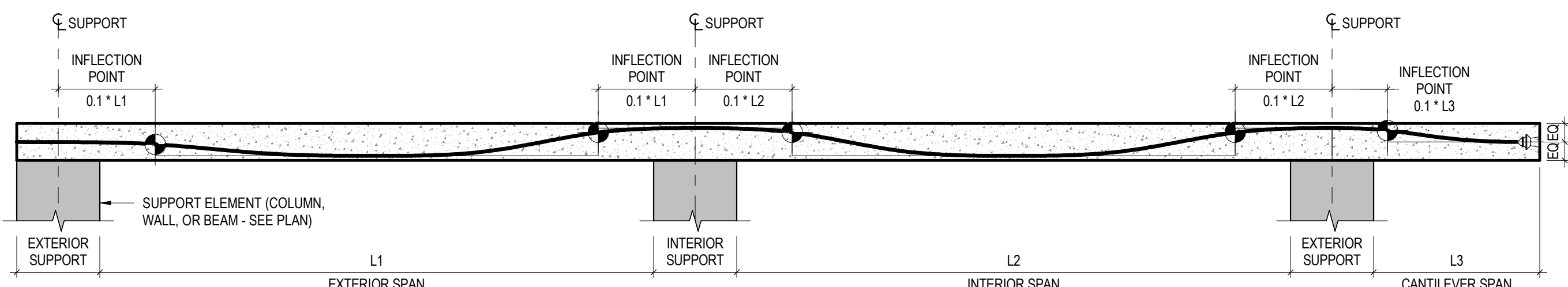
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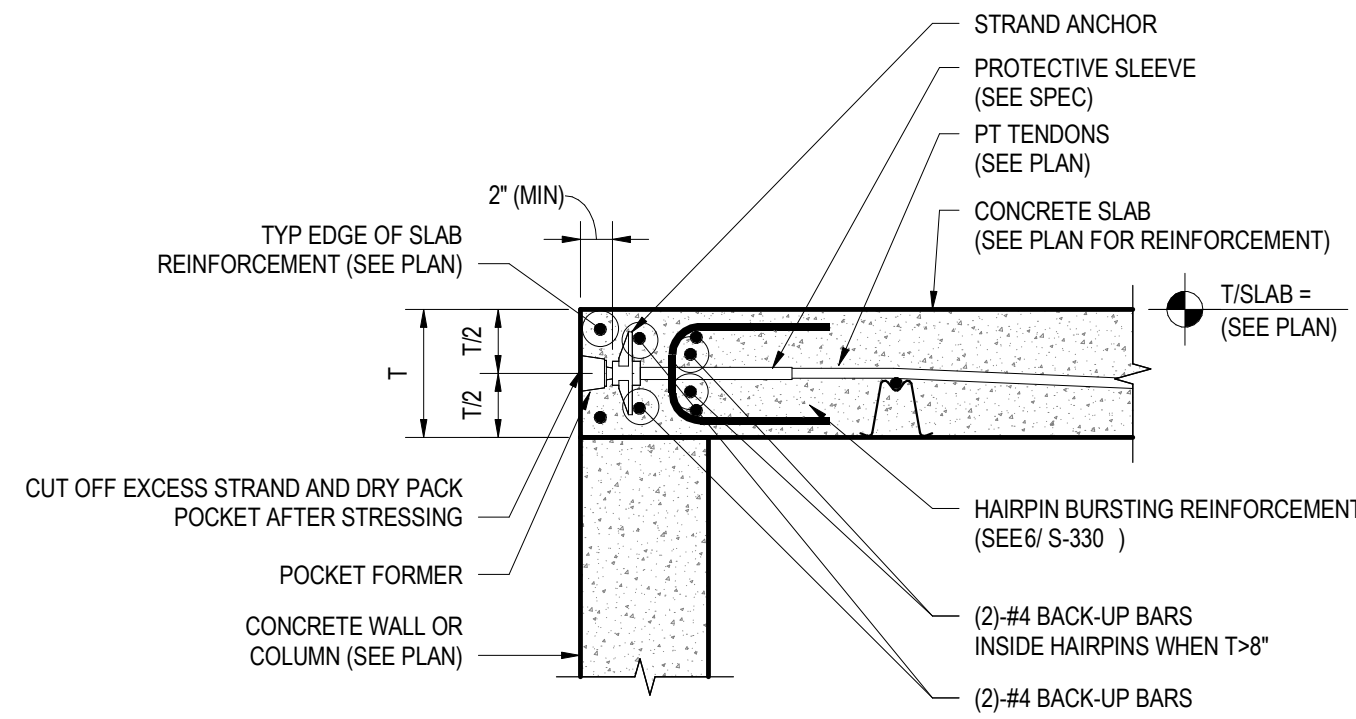
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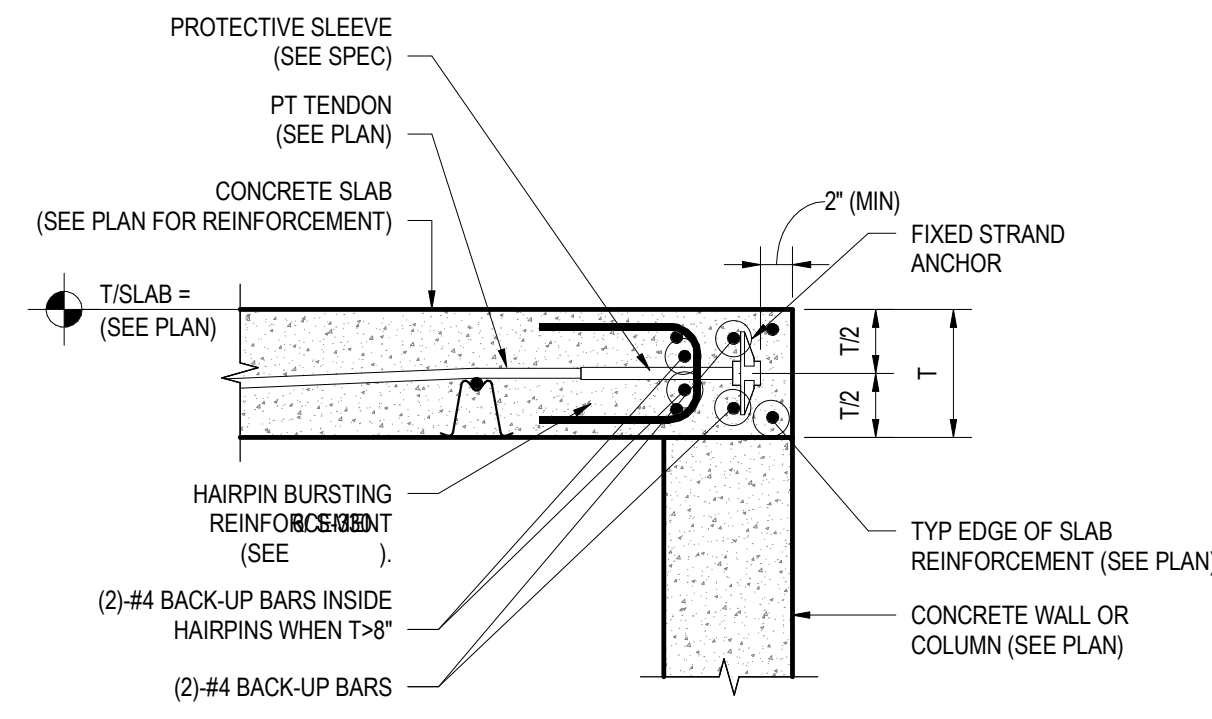
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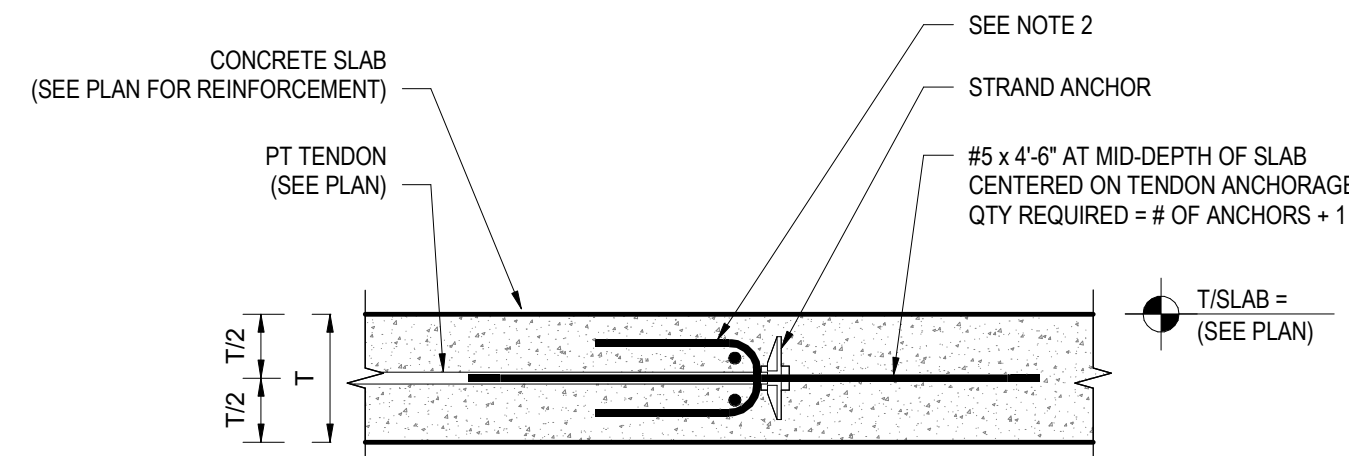
- NOTES:
- SEE PLANS FOR TENDON LAYOUT.
 - TENDON LOW POINTS ARE LOCATED MIDWAY BETWEEN HIGH POINTS UNLESS NOTED OTHERWISE.
 - TENDON LOW POINTS AT EXTERIOR SPANS ARE LOCATED 0.4L FROM CENTER LINE OF EXTERIOR SUPPORTS.
 - DRAPE TENDON IN PARABOLIC PROFILE BETWEEN LOW AND HIGH POINTS.
 - DROP PANELS, WHERE THEY OCCUR, ARE NOT SHOWN FOR CLARITY.



STRESSING END



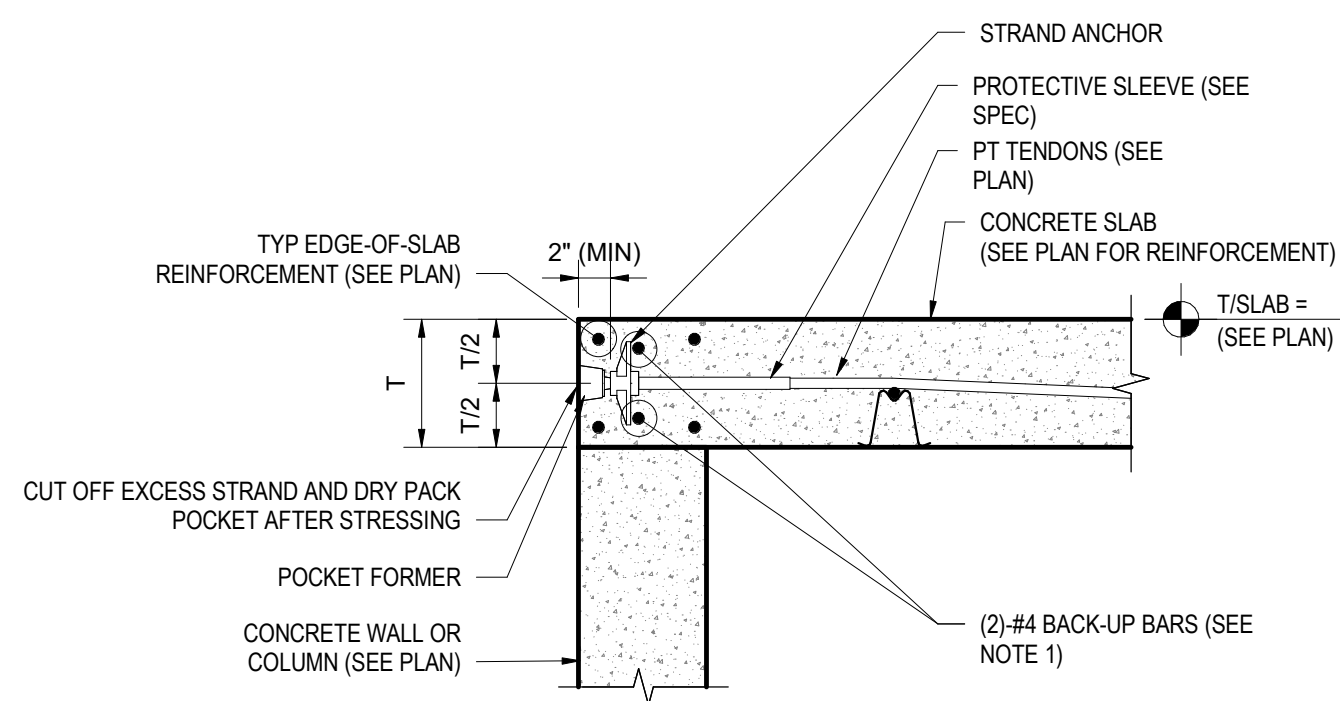
FIXED END



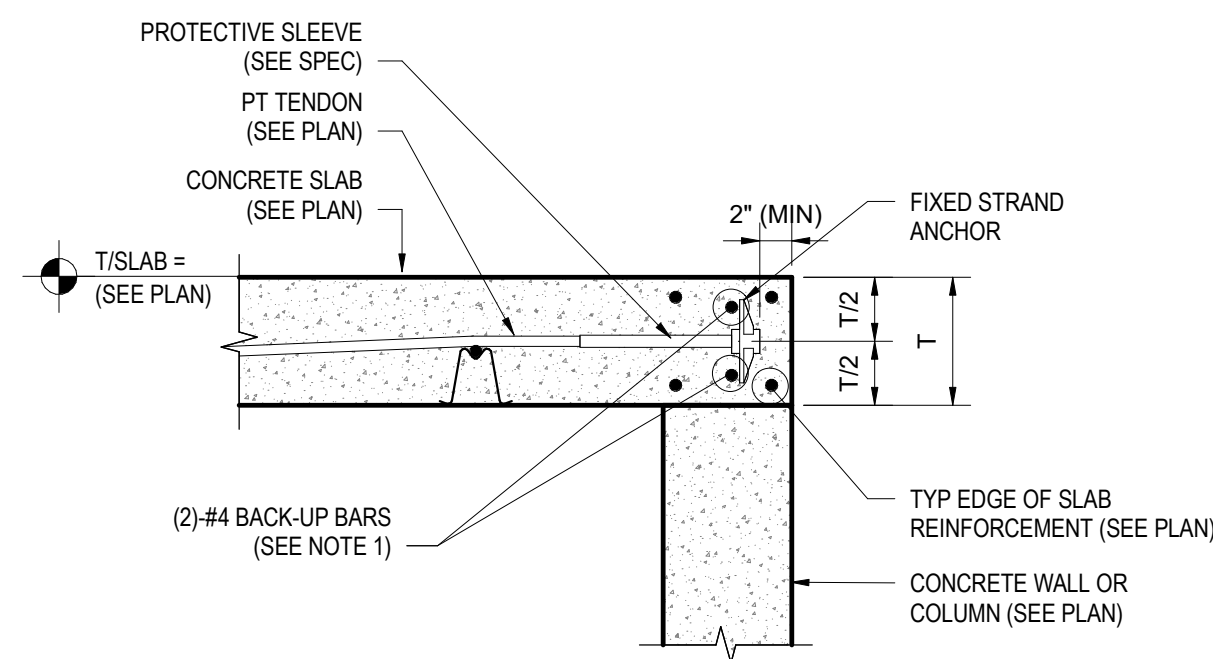
- NOTES:
- THIS DETAIL APPLIES TO ALL TENDON ANCHORAGES LOCATED AWAY FROM THE EDGE OF SLAB.
 - PROVIDE BACK UP BARS AND HAIRPIN BURSTING REINFORCEMENTS AS REQUIRED PER TYPICAL UNIFORMBANDED TENDON FIXED END DETAILS.

1 TYPICAL TENDON PROFILE

1/2" = 1'-0"



STRESSING END

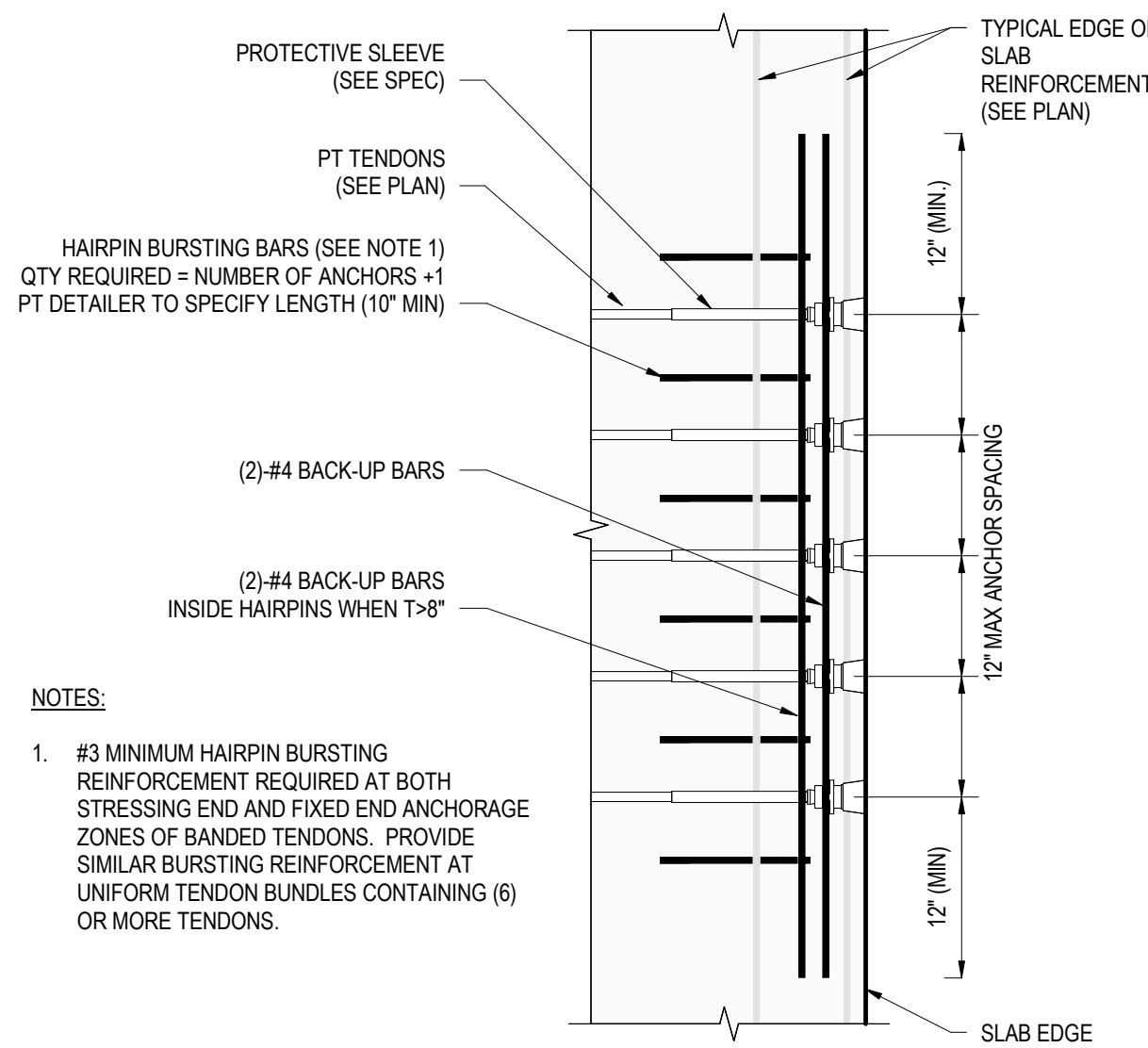
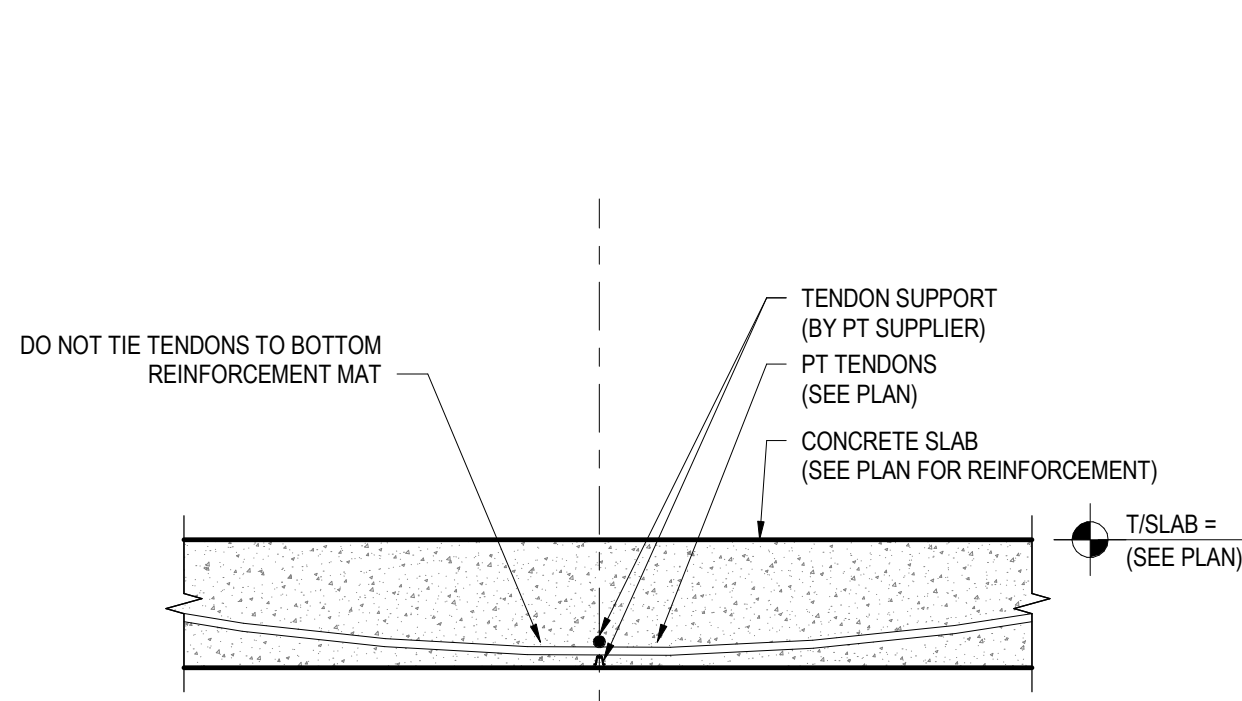


FIXED END

- NOTES:
- PROVIDE HAIRPIN BURSTING REINFORCEMENT SIMILAR TO BANDED TENDON ANCHORAGE FOR BUNDLES OF (6) OR MORE CABLES.

2 BANDED TENDON ANCHORAGE CONDITIONS

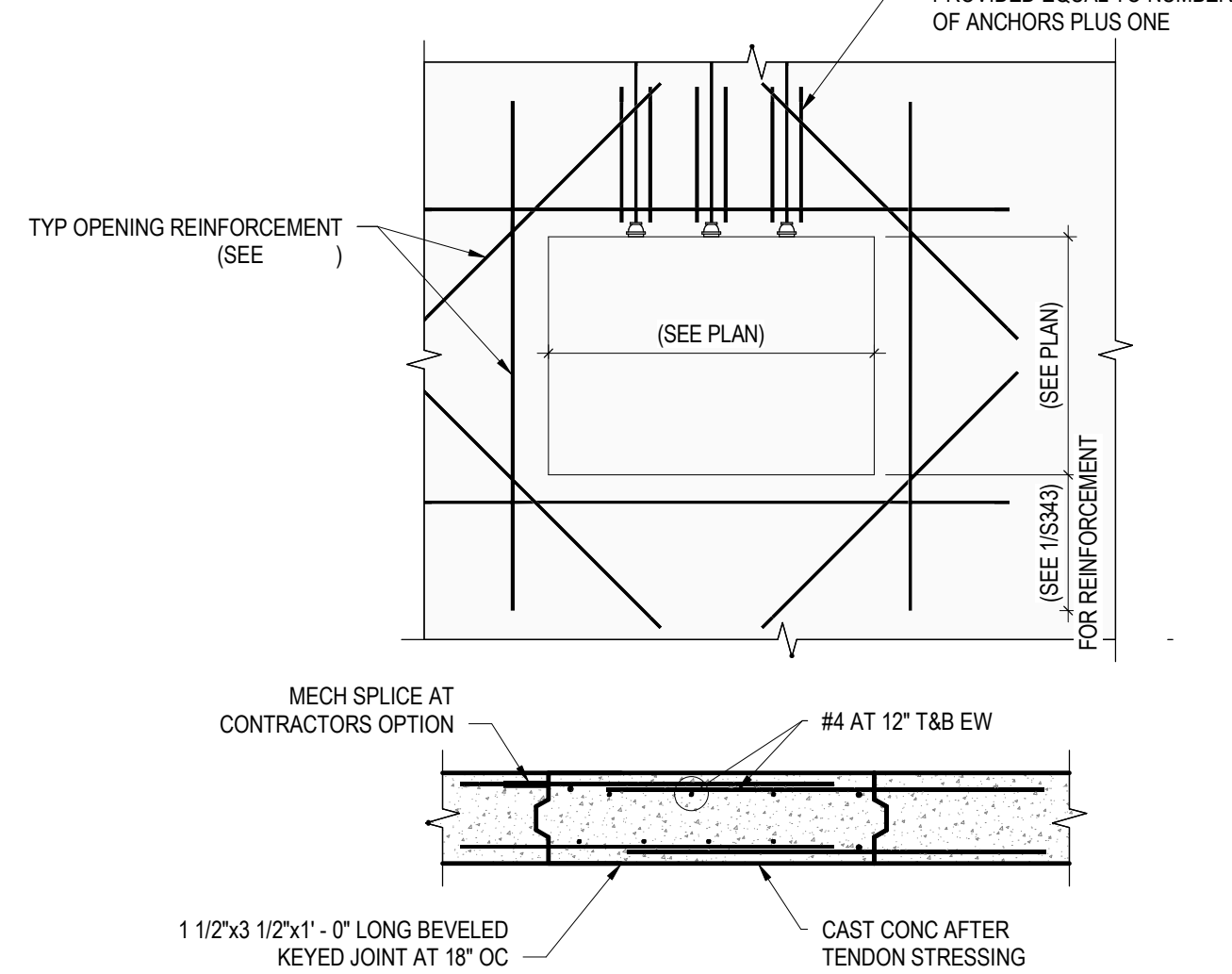
NTS



- NOTES:
- #3 MINIMUM HAIRPIN BURSTING REINFORCEMENT REQUIRED AT BOTH STRESSING END AND FIXED END ANCHORAGE ZONES OF BANDED TENDONS. PROVIDE SIMILAR BURSTING REINFORCEMENT AT UNIFORM TENDON BUNDLES CONTAINING (6) OR MORE TENDONS.

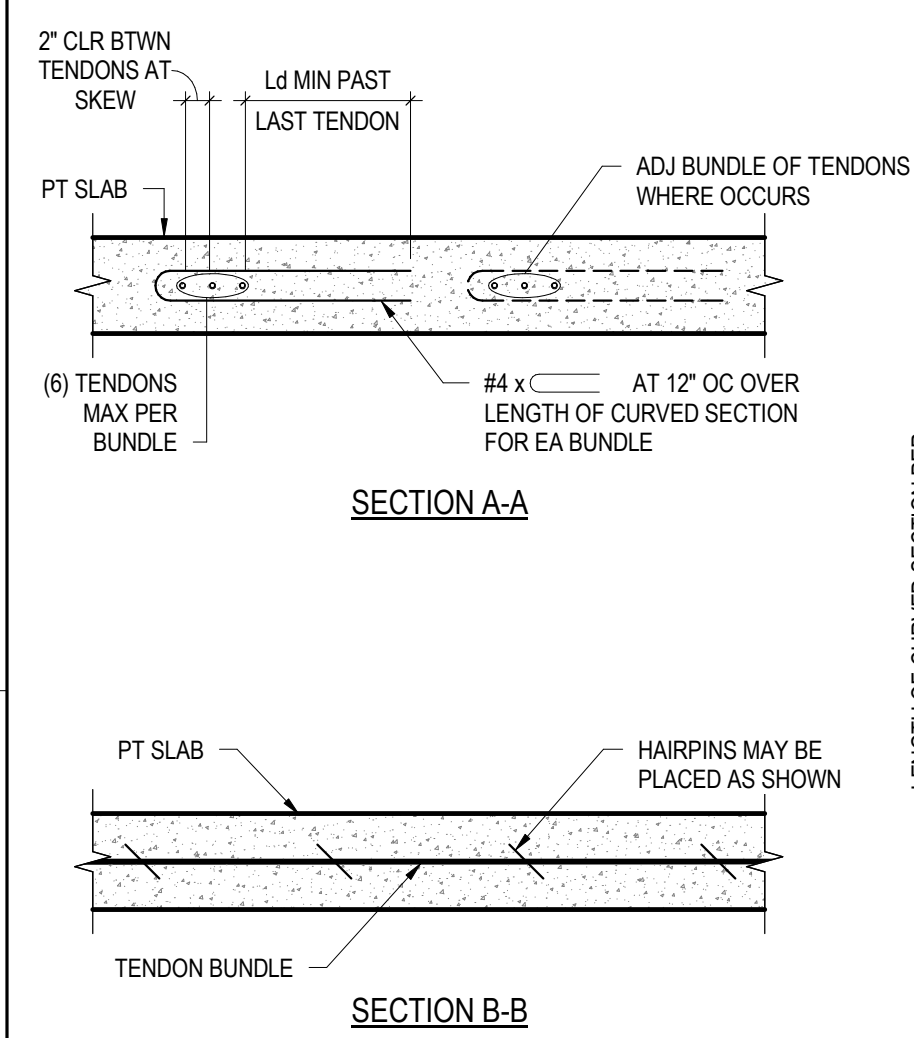
3 ANCHORAGE AT ADDED TENDON

NTS



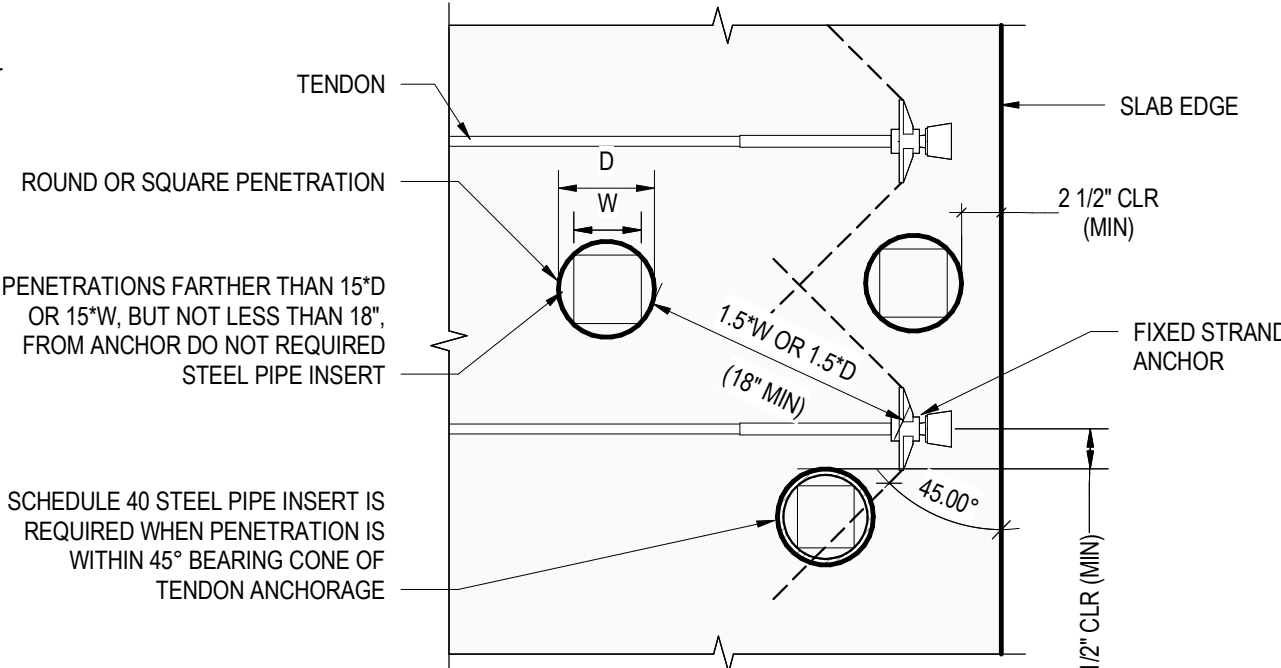
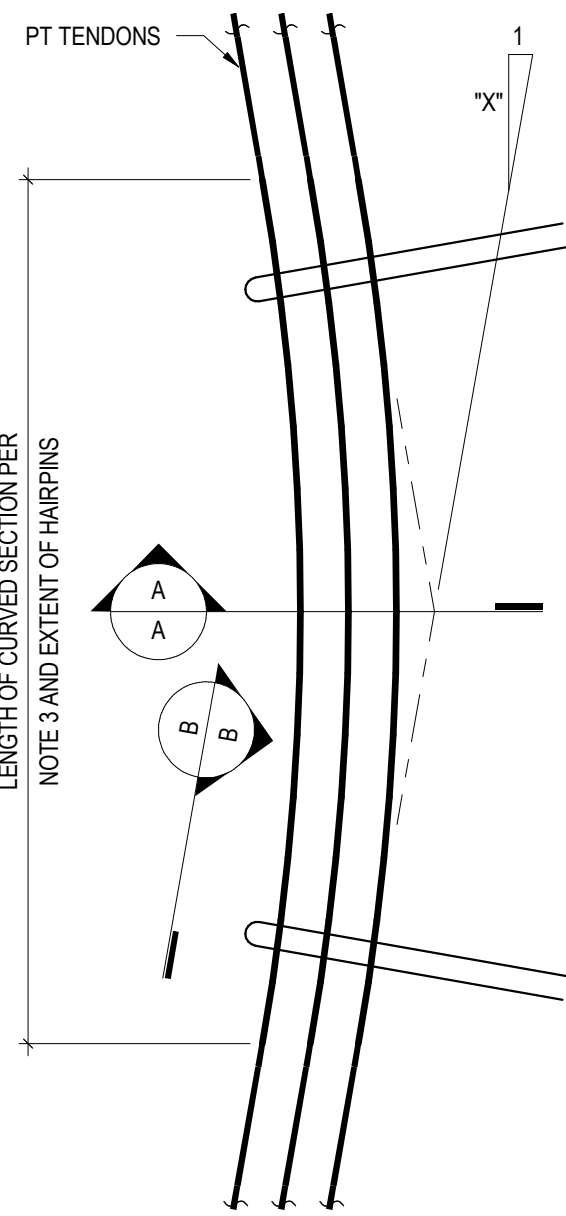
4 UNIFORM TENDON ANCHORAGE CONDITIONS

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SECTION A-A

SECTION B-B



- NOTES:
- PENETRATIONS WITH DIMENSIONS GREATER THAN 12" REQUIRE TRIM BARS PER TYPICAL DETAIL.
 - SLAB EDGE REINFORCEMENT AND POST TENSIONED BACKUP BARS NOT SHOWN FOR CLARITY. SEE PLAN AND KEYED SECTIONS AND DETAILS FOR REINFORCEMENT REQUIREMENTS.

8 TYPICAL TENDON HORIZONTAL CURVE

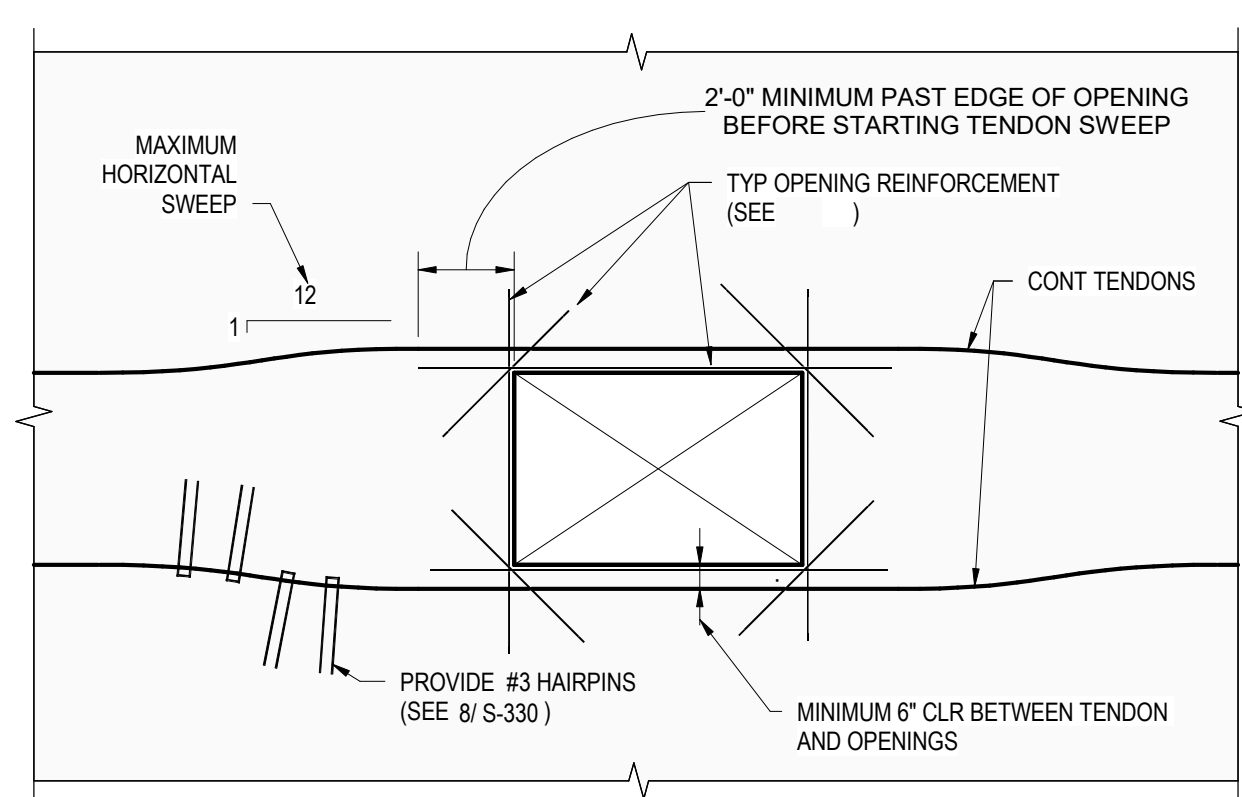
3/4" = 1'-0"

9 SLEEVES NEAR TENDON ANCHORAGE

1" = 1'-0"

10 TENDONS AT SLAB OPENING

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6 TYPICAL BANDED ANCHORAGE ZONE

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7 STRESSING BLOCKOUT

1/2" = 1'-0"

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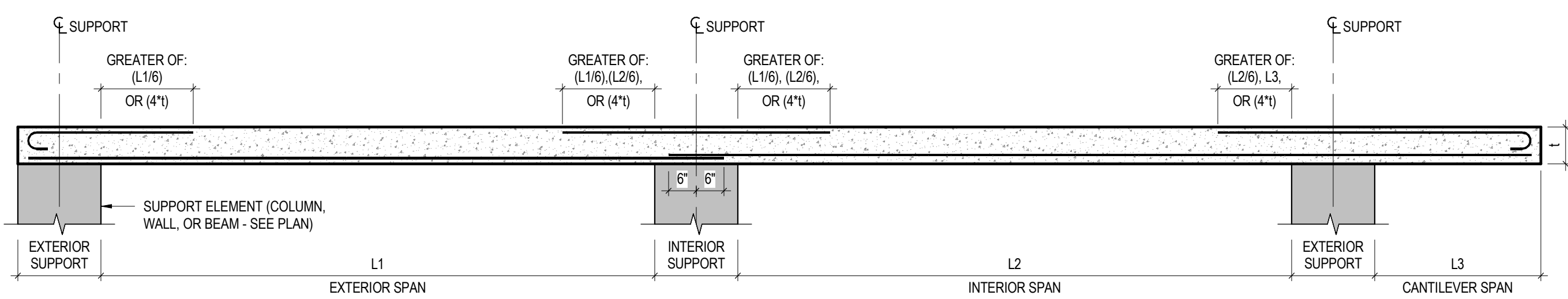
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Date: 08/22/2025

**TYPICAL PT
TENDON
DETAILS**

S-330

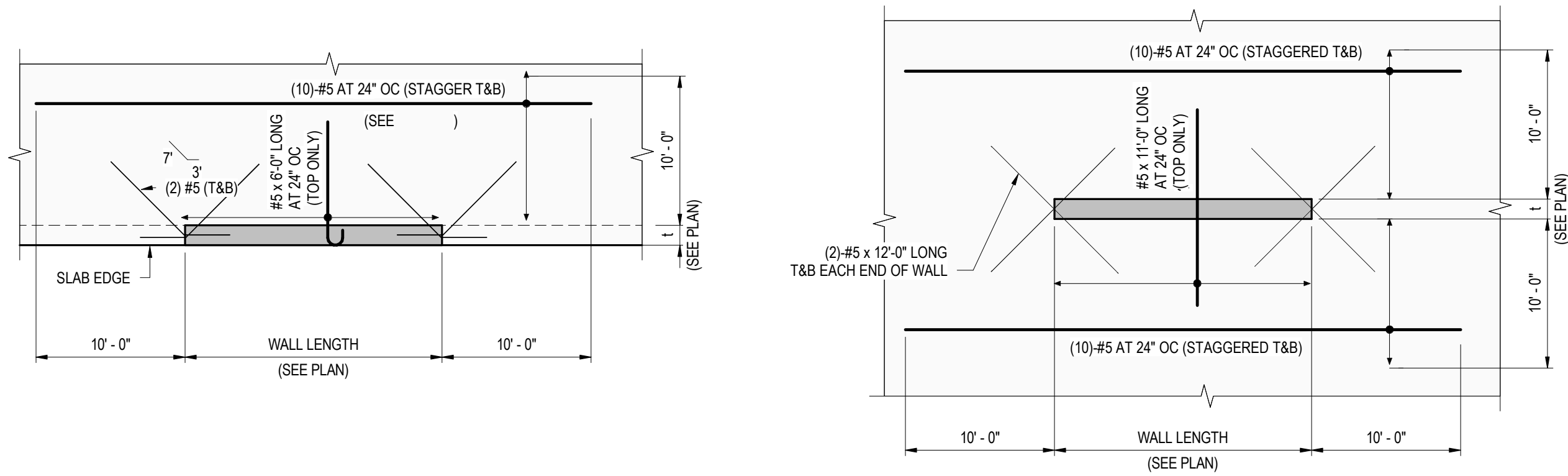
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- NOTES:
- DRAWING IS NOT TO SCALE.
 - CLEAR COVER PER CONCRETE SLAB CLEAR COVER SCHEDULE ON _____.
 - BAR LENGTHS SHOWN ABOVE SHALL BE USED UNLESS NOTED OR SHOWN OTHERWISE ON DRAWINGS.
 - TERMINATE TOP BARS AT EDGE OF SLAB OR EDGE-OF-OPENINGS WITH A2 STANDARD 180° HOOKS TURNED FROM VERTICAL AS REQUIRED TO MAINTAIN CLEAR COVER.
 - BOTTOM BARS SHALL BE DETAIL AS FOLLOWS:
 - WHEN SHOWN ON PLAN AS CONTINUOUS BETWEEN SUPPORTS - FULL LENGTH WITH MINIMUM EMBEDMENTS INTO SUPPORTS EACH END AS SHOWN ABOVE.
 - WHEN SHOWN ON PLAN AS PARTIAL LENGTH - LENGTH EQUAL TO THAT INDICATED ON PLAN OR HALF OF THE SPAN IN WHICH THEY ARE PLACED (WHICHEVER IS GREATER) WITH 1/4 OF THE SPECIFIC BAR QUANTITY (ROUNDED UP - MINIMUM OF 2) CONTINUOUS BETWEEN SUPPORTS WITH MINIMUM EMBEDMENT INTO SUPPORTS EACH END AS SHOWN ABOVE.

1 SLAB BAR LENGTHS

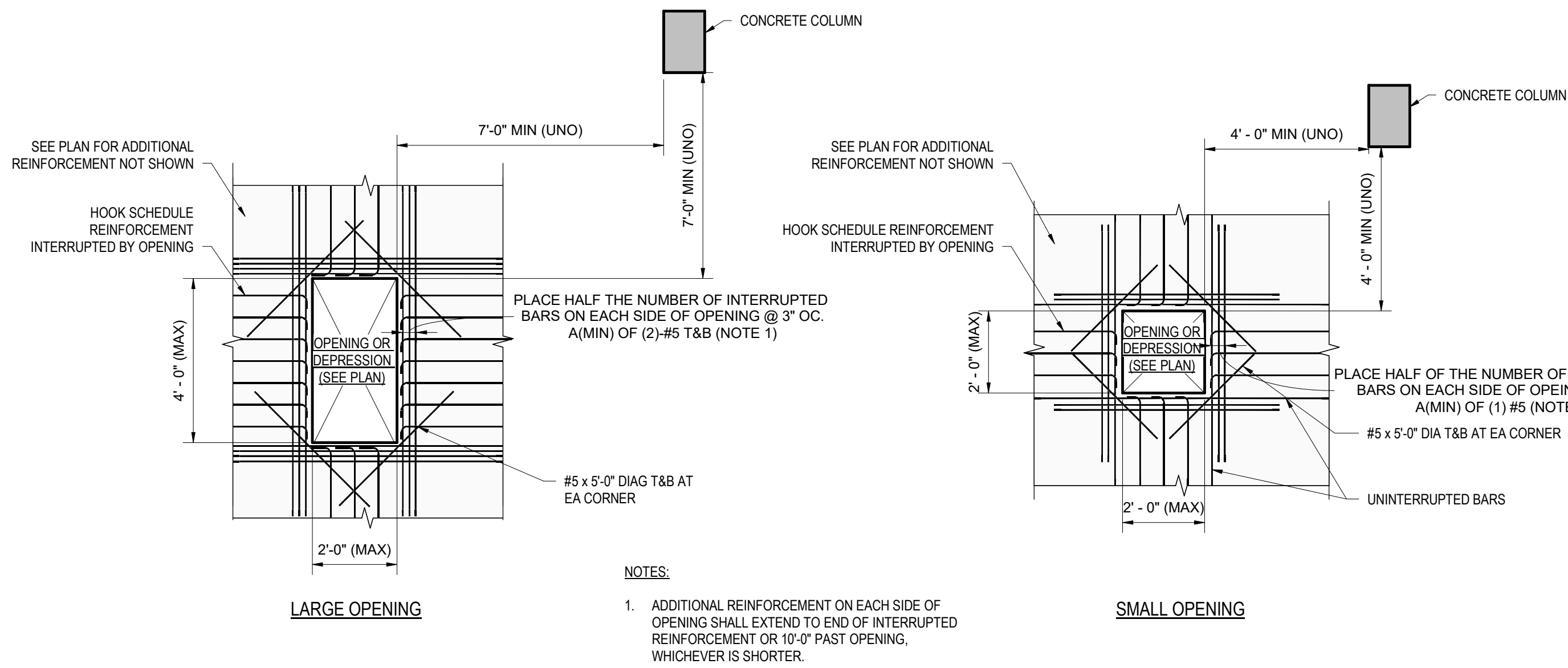
1/2" = 1'-0"



- NOTES:
- AT BASEMENT OR RETAINING WALL CONDITIONS, REINFORCEMENT INDICATED SHALL BE INSTALLED CONTINUOUS ALONG FULL LENGTH OF WALL AND SLICE CONNECTIONS SHALL BE PROVIDED.

5 ADDITIONAL SLAB REINFORCEMENT AT CONCRETE WALLS

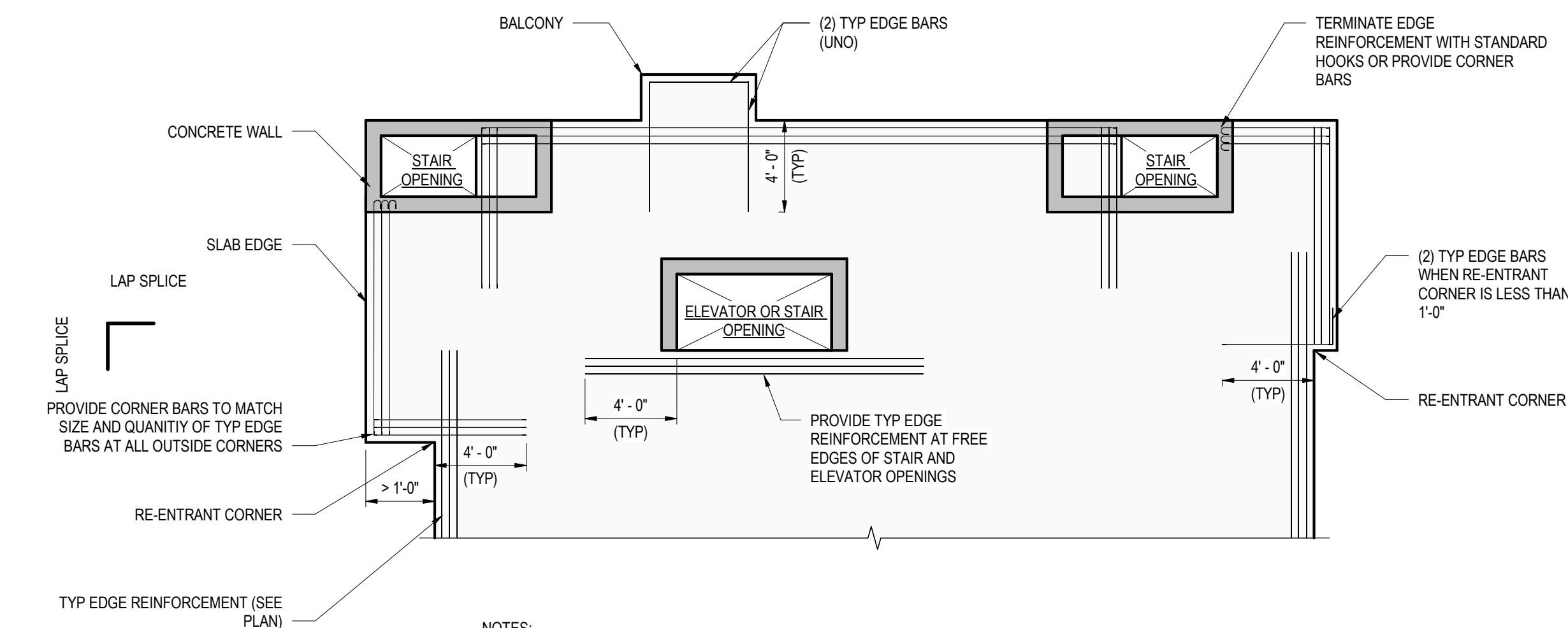
1/8" = 1'-0"



- NOTES:
- ADDITIONAL REINFORCEMENT ON EACH SIDE OF OPENING SHALL EXTEND TO END OF INTERRUPTED REINFORCEMENT OR 12'-0" PAST OPENING, WHICHEVER IS SHORTER.

9 TYPICAL SLAB OPENING REINFORCEMENT AT POST-TENSIONED SLAB - PLAN

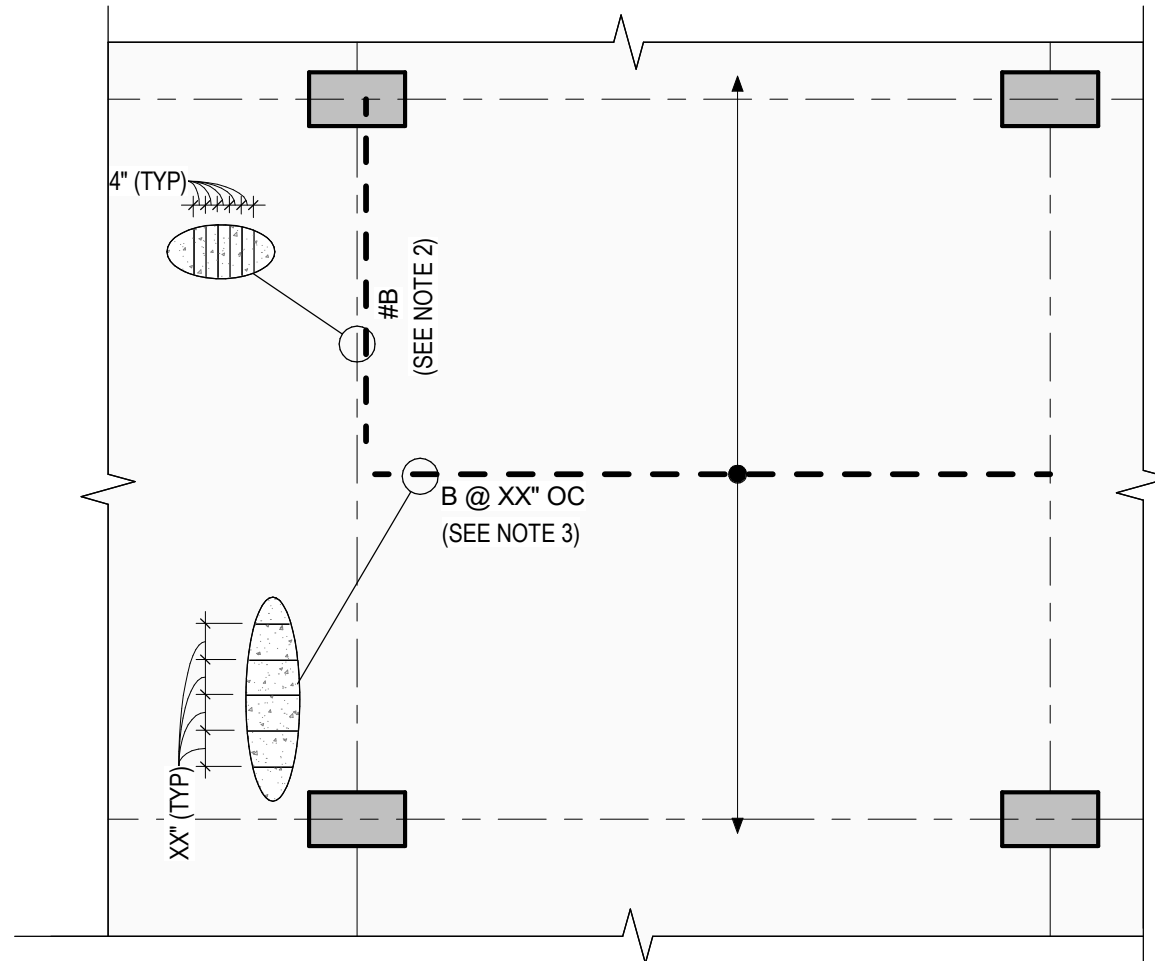
3/8" = 1'-0"



- NOTES:
- THIS PLAN IS CONCEPTUAL. SEE PLAN FOR ACTUAL DIMENSIONS AND ARRANGEMENT OF STRUCTURAL ELEMENTS.
 - EDGE REINFORCEMENT SHALL BE CONTINUOUS AND SHALL BE LAP SPLICED AS NECESSARY.
 - SEE PLAN AND KEYED SECTIONS FOR ADDITIONAL REINFORCEMENT NOT SHOWN IN THIS PLAN.

12 TYPICAL ELEVATED SLAB EDGE REINFORCEMENT CONCEPTUAL PLAN

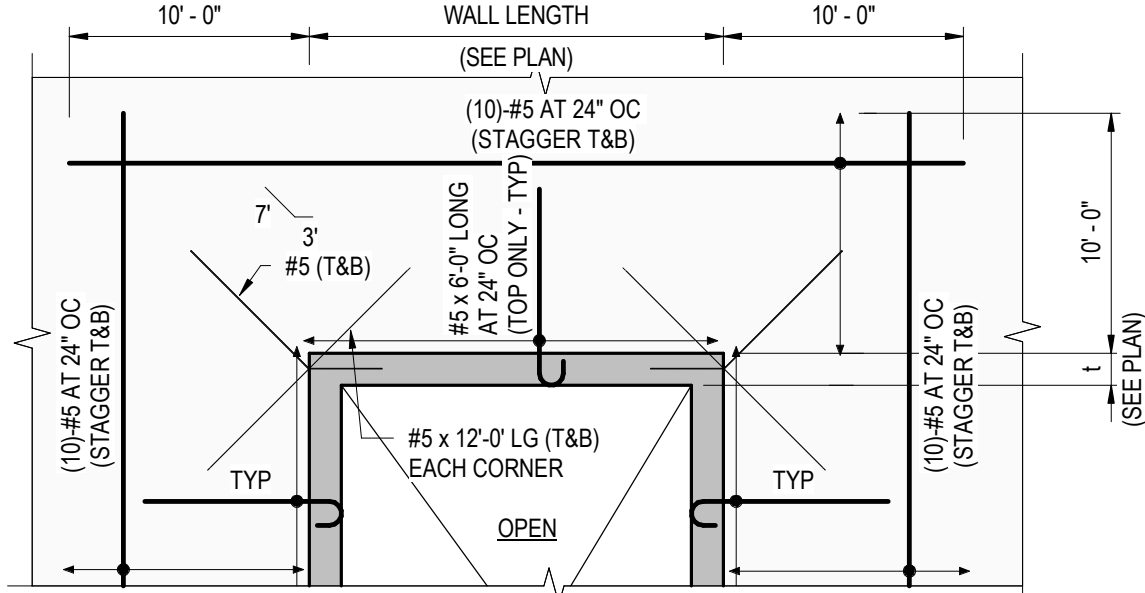
3/16" = 1'-0"



- NOTES:
- BARS SHOWN AS #B SHALL BE CENTERED ALONG COLUMN LINE UNLESS SPECIFICALLY NOTED OTHERWISE.
 - BAR SPACED FOR BARS SHOWN AS #B SHALL BE 4'-0" UNLESS NOTED OTHERWISE.
 - BARS SHOWN AS SPACED AT XX" SHALL BE OF A QUANTITY AS REQUIRED TO FILL EVENLY THE EXTENTS SHOWN ON PLAN.
 - BOTTOM BARS SHALL BE CENTERED AT MID SPAN UNLESS NOTED OTHERWISE.
 - SEE TYPICAL POST TENSIONED SLAB REINFORCEMENT LAYOUT DETAIL FOR BAR EXTENTS.

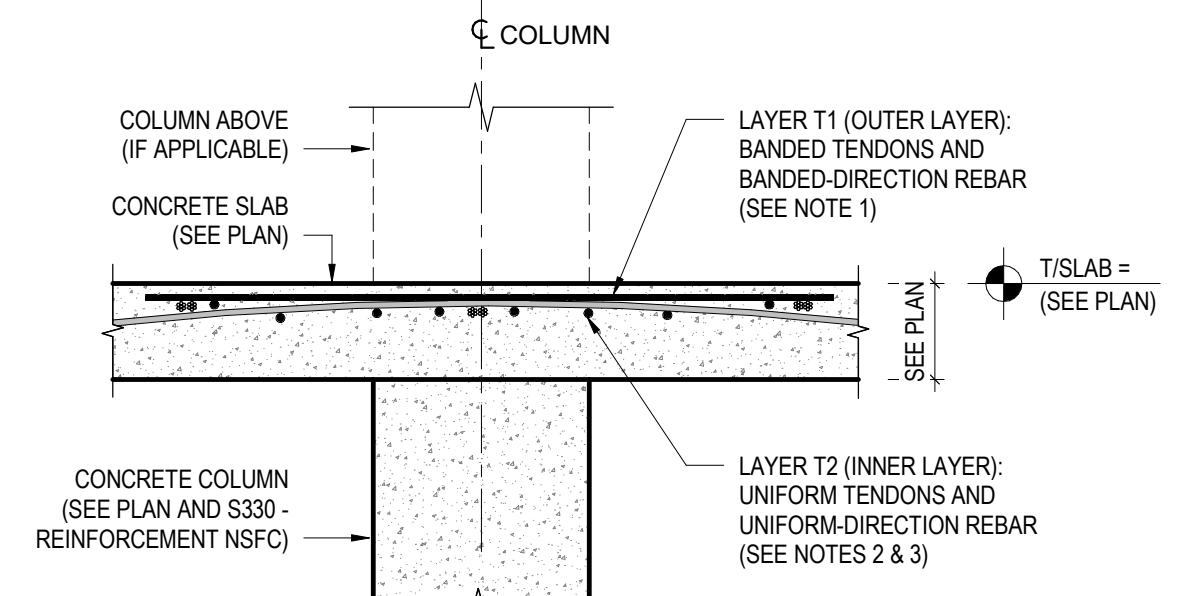
2 BOTTOM BAR PLACEMENT

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3 TOP BAR PLACEMENT AT COLUMNS

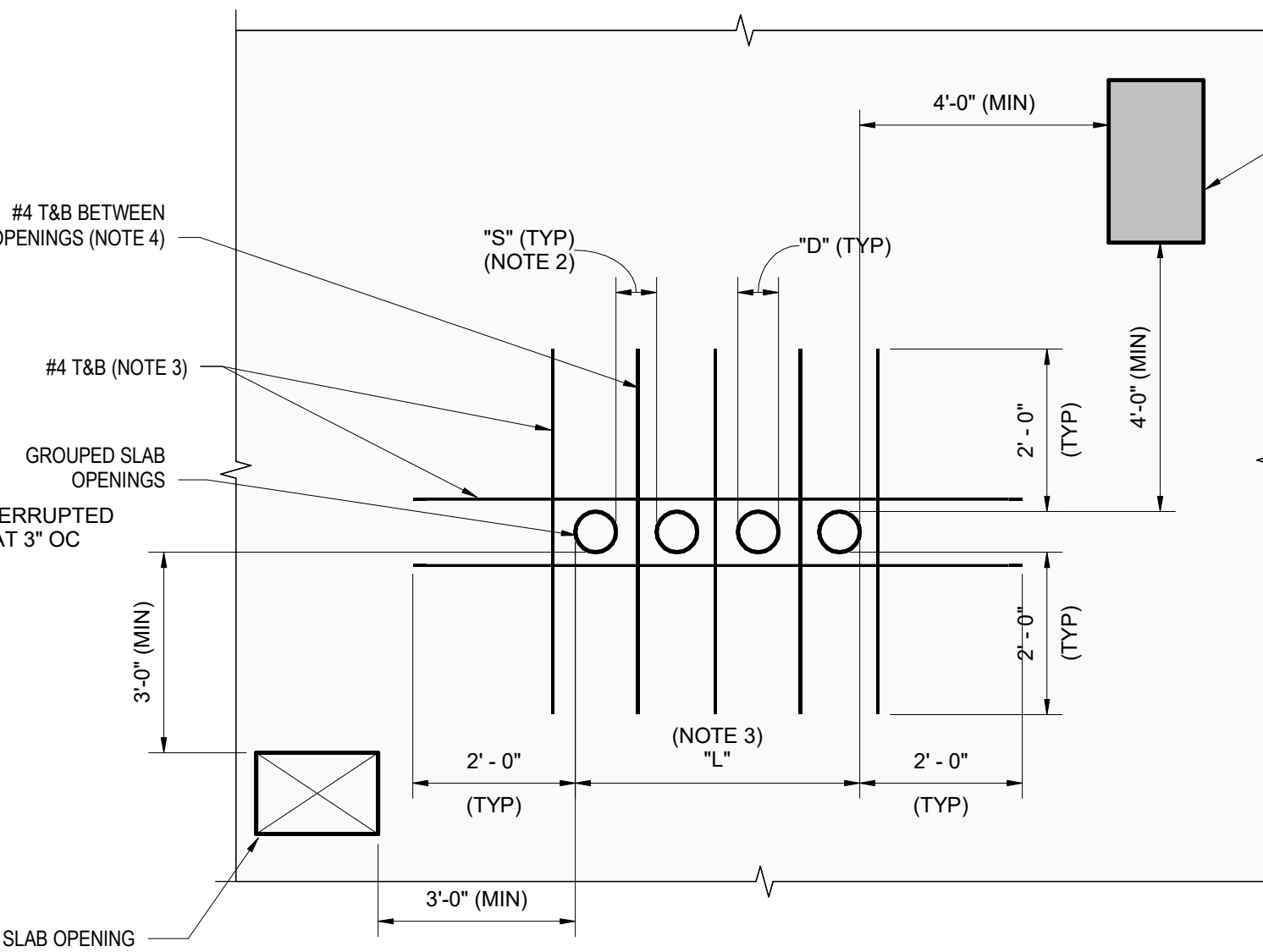
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- NOTES:
- CONVENTIONAL TOP BAR REINFORCEMENT AS NOTED ON PLAN IN THE BANDED DIRECTION SHALL BE PLACED IN THE SAME LAYER AS THE BANDED POST TENSION TENDONS.
 - CONVENTIONAL TOP BAR REINFORCEMENT AS NOTED ON PLAN IN THE UNIFORM DIRECTION SHALL BE PLACED IN THE SAME LAYER AS THE UNIFORM POST TENSION TENDONS, AND SHALL BE DIRECTLY BELOW THE BANDED LAYER.
 - WHERE UNIFORM TENDONS ARE LOCATED FAR ENOUGH FROM THE COLUMN CENTERLINE TO NOT CONFLICT WITH BANDED TENDONS OR REINFORCEMENT, UNIFORM TENDONS SHALL BE LOCATED ABOVE THE BANDED TENDONS TO ACHIEVE THE DRAPE ELEVATION NOTED ON THE PLANS.

6 PLACEMENT PRIORITIES AT COLUMNS

3/4" = 1'-0"



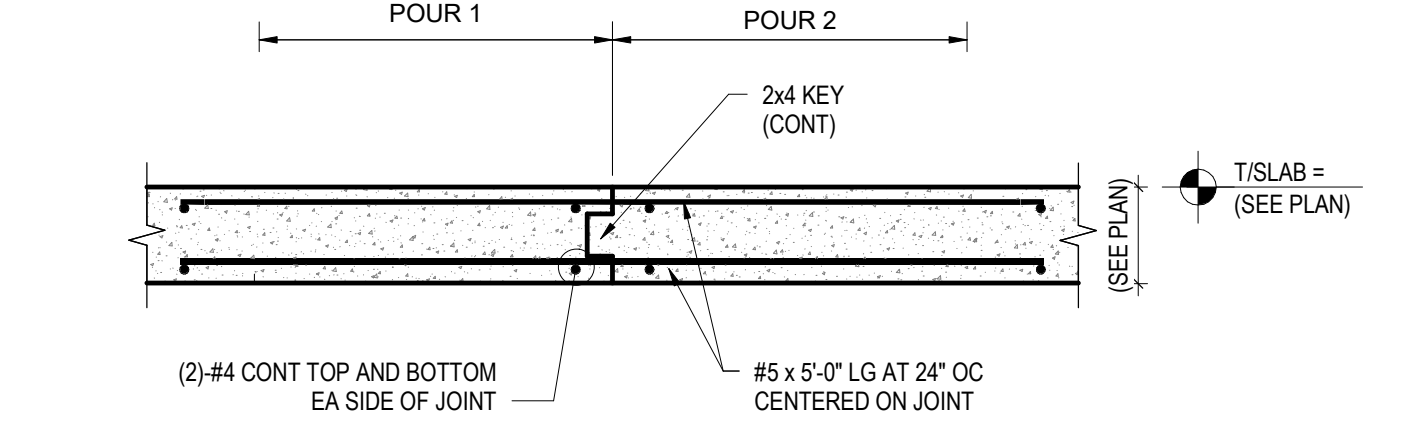
- NOTES:
- THIS DETAIL APPLIES TO GROUPED OPENINGS WITH $D \leq 8'$.
 - MINIMUM OPENING SPACE, "S" = OPENING WIDTH, "D", OR 3' (WHICHEVER IS LARGER), WHERE A TENDON MUST PASS BETWEEN OPENINGS, "S" = MINIMUM.
 - WHERE "L" IS $> 1'-0"$ OR THERE ARE (3) OR MORE GROUPED OPENINGS, PROVIDE #4 TOP AND BOTTOM ON EACH SIDE OF GROUPED OPENINGS.
 - WHERE "S" $\leq 1'-0"$, PROVIDE #4 TOP AND BOTTOM BETWEEN OPENINGS.
 - OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED FOR REVIEW WITH SLAB SHOP DRAWINGS. ADDITIONAL SLAB REINFORCEMENT MAY BE REQUIRED BEYOND WHAT IS DETAILED.
 - NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF THESE CONDITIONS CANNOT BE MET.

10 TYPICAL GROUPED OPENING REINFORCEMENT AT POST-TENSIONED SLAB - PLAN

1/2" = 1'-0"

4 CONSTRUCTION JOINT IN SLAB

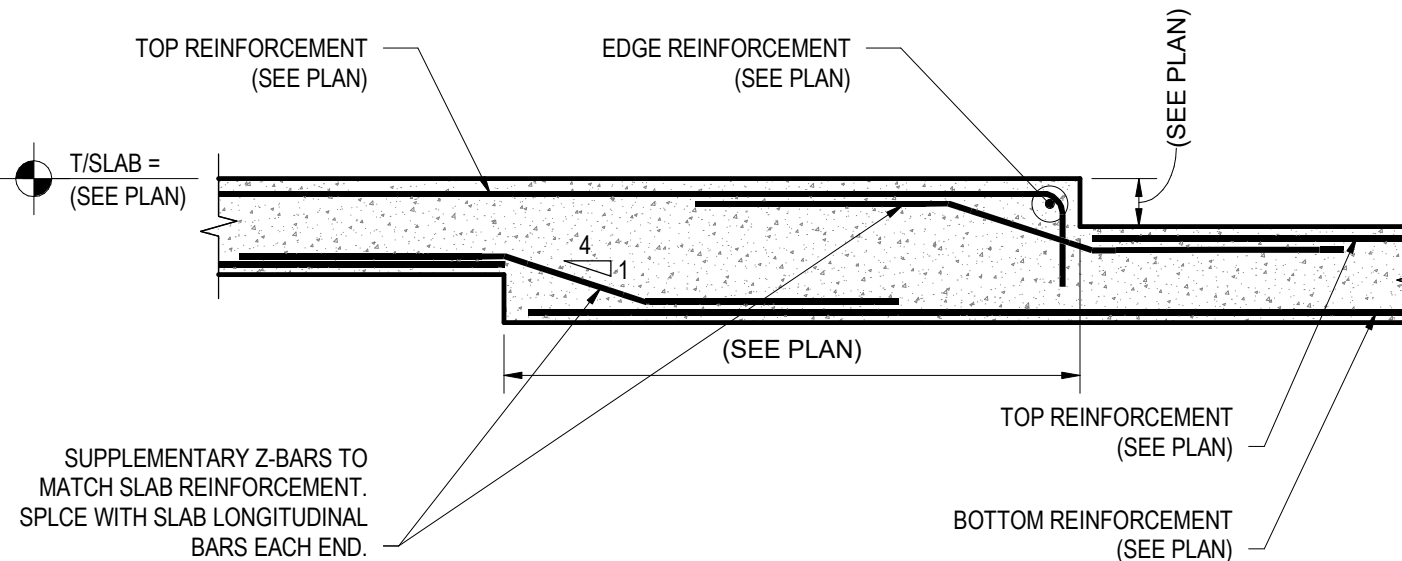
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- NOTES:
- SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS FOR REVIEW PRIOR TO CONSTRUCTION.
 - SCHEDULE REINFORCEMENT AND/OR REINFORCEMENT INDICATED ON PLAN SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS. MAINTAIN SPLICE LOCATIONS INDICATED IN FRAMING SECTIONS. ADDITIONAL SPLICES ARE NOT PERMITTED.
 - WHERE POST TENSION EXISTS, CONSTRUCTION JOINTS SHALL BE LOCATED SUCH THAT THE POST TENSIONING IS ANCHORED AT THE CENTER OF GRAVITY OF THE SLAB CROSS SECTION.
 - INTENTIONALLY ROUGHEN THE FACE OF SLAB AT CONSTRUCTION JOINT TO 1/4" MINIMUM AMPLITUDE FOR SLABS $\leq 6'$ THICK. INSTALL 2X4 CONT KEY AT SLABS $> 6'$ THICK ALTERNATIVELY, STAY IN PLACE GALVANIZED STEEL BULKHEAD FORMS CAPABLE OF PROVIDING THE SPECIFIED SURFACE ROUGHNESS MAY BE USED.
 - CLEAR COVER TO ADDITIONAL JOINT REINFORCEMENT SHALL BE AS REQUIRED FOR TYPICAL REINFORCEMENT AT EACH LEVEL.

7 TYPICAL PT SLAB FOLD - DETAIL

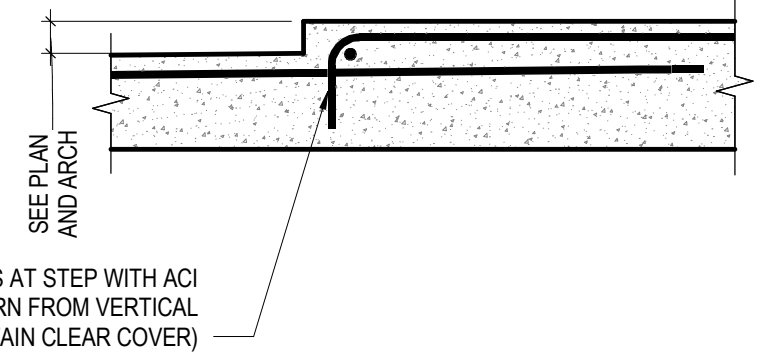
3/4" = 1'-0"



- NOTES:
- TERMINATE TOP BARS AT STEP WITH A2 STANDARD 90° HOOK (TURN FROM VERTICAL AS REQUIRED TO MAINTAIN CLEAR COVER).

11 REBAR TRANSITION AT SLAB STEP

1" = 1'-0"



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TYPICAL PT
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DETAILS

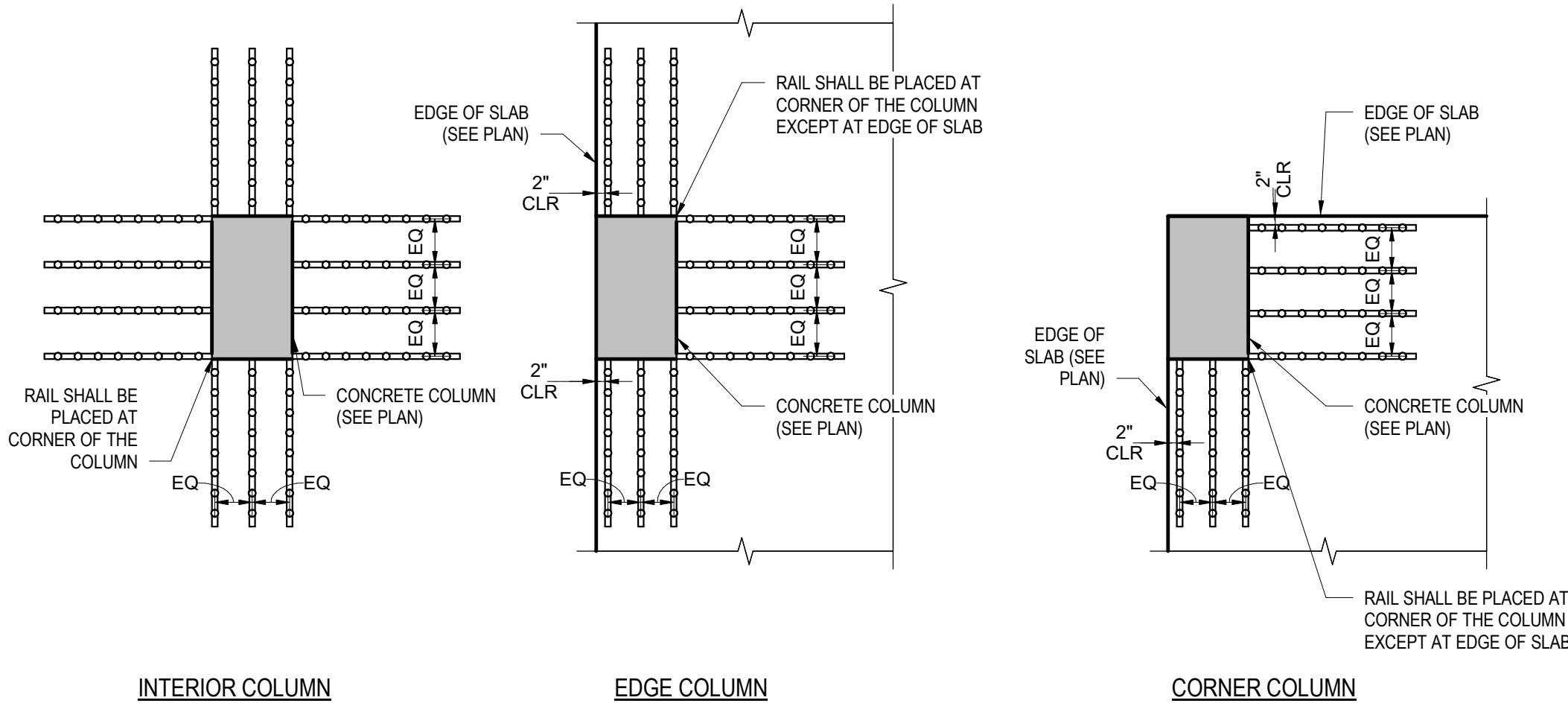
S-331

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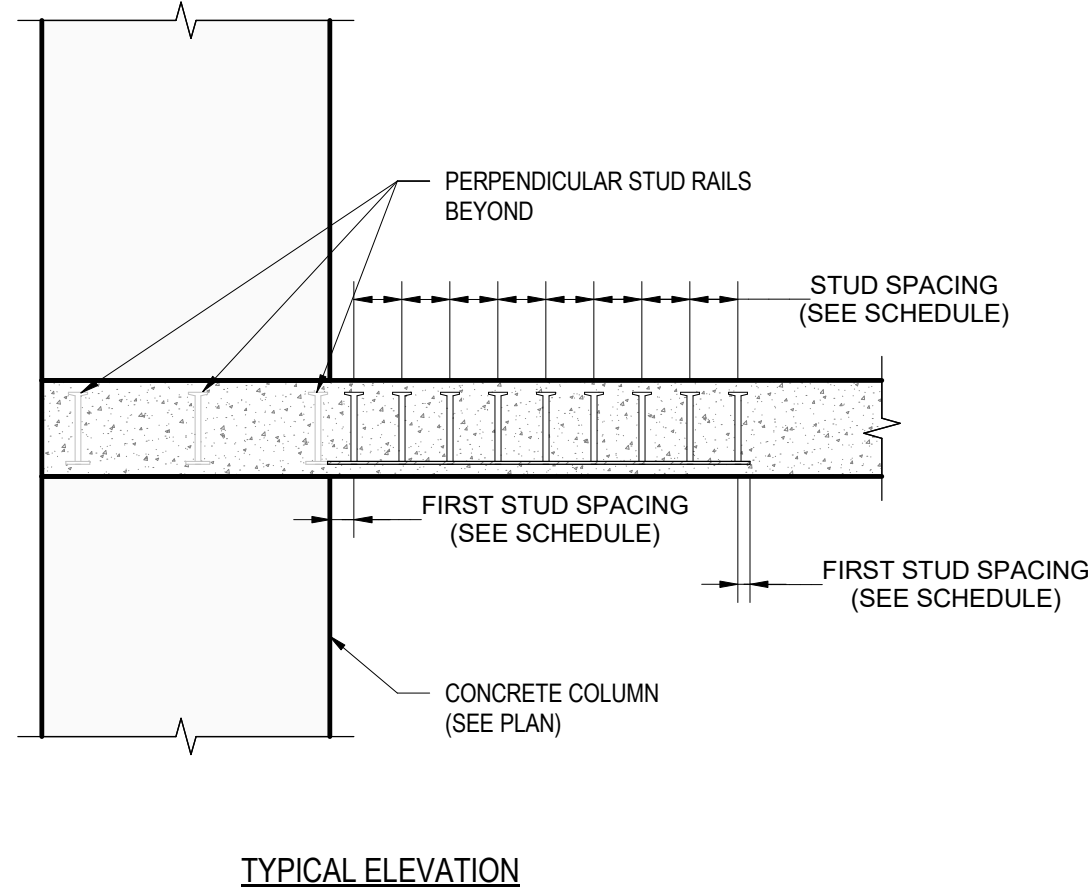
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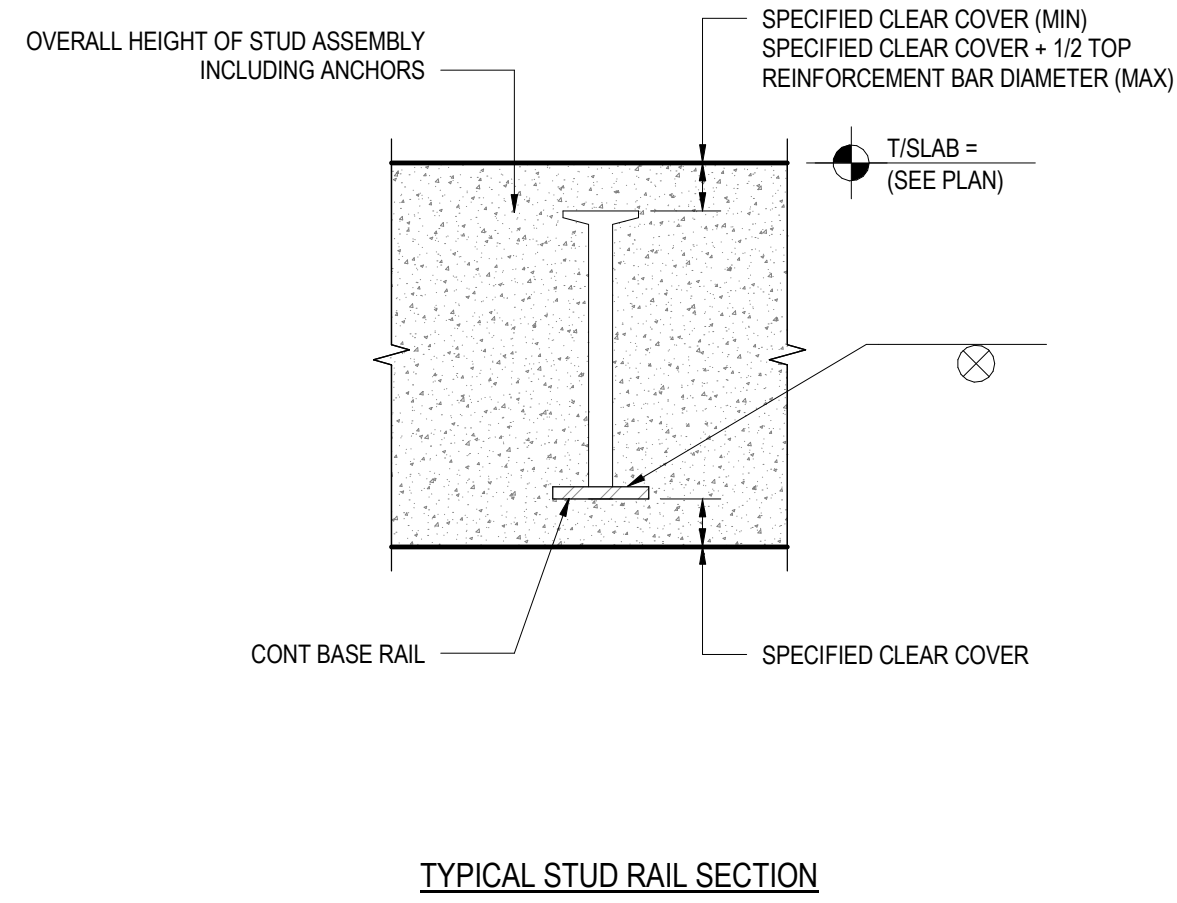
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1 TYPICAL SHEAR STUD RAIL CONFIGURATIONS - PLAN



2 TYPICAL SHEAR STUD RAIL LAYOUT - ELEVATION



3 TYPICAL SHEAR STUD LAYOUT - SECTION



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JG Project #: 21.18.004

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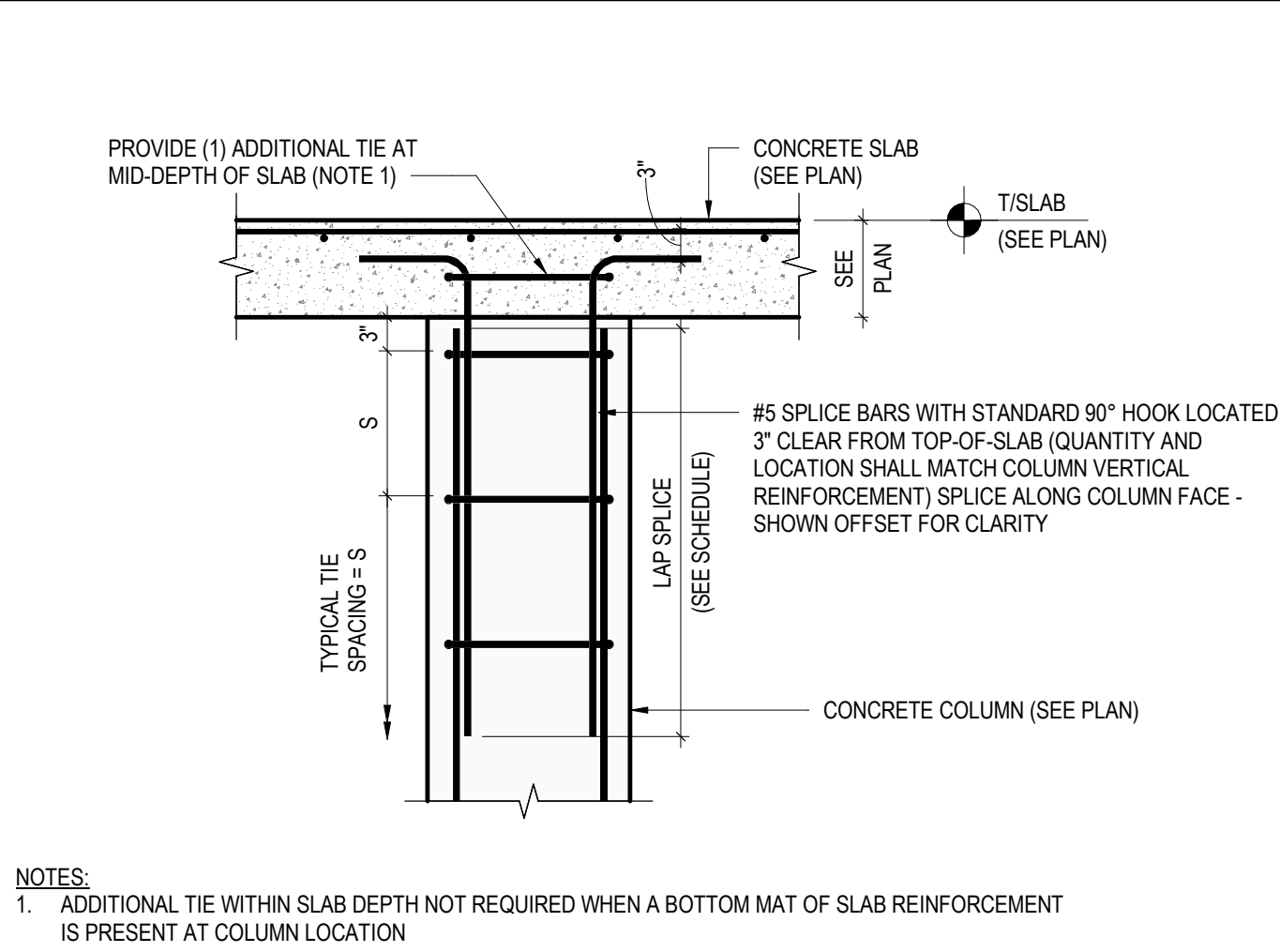
DESIGN
DEVELOPMENT

Project No.: 2021009
Date: 08/22/2025

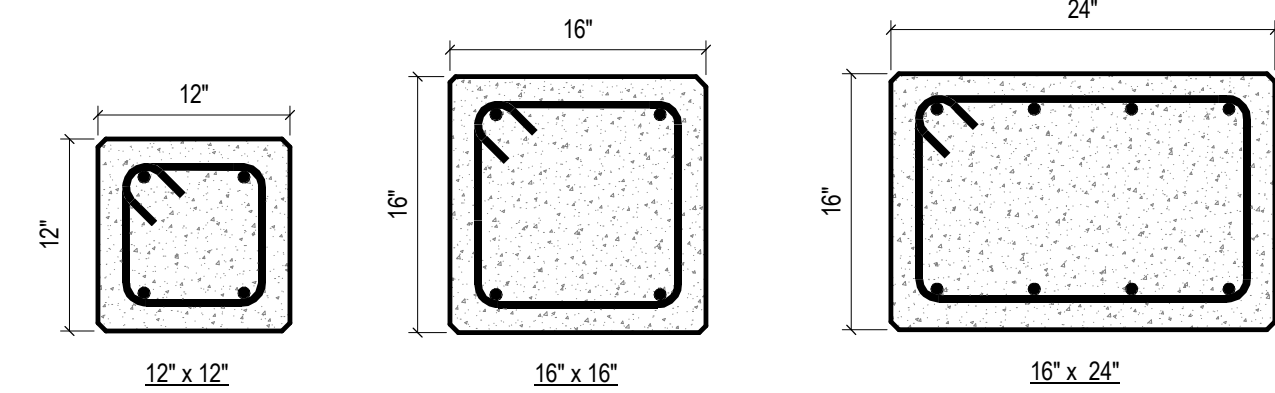
TYPICAL PT
SHEAR STUD
RAILS
DETAILS

S-332

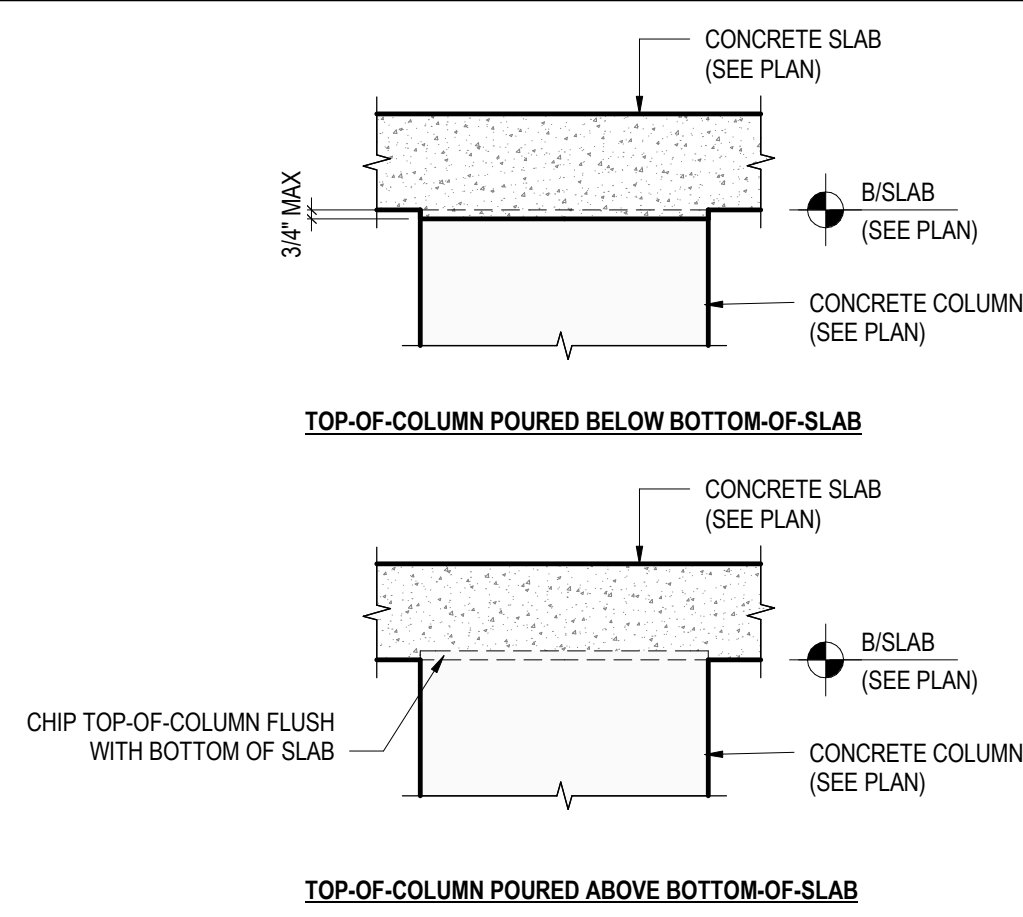
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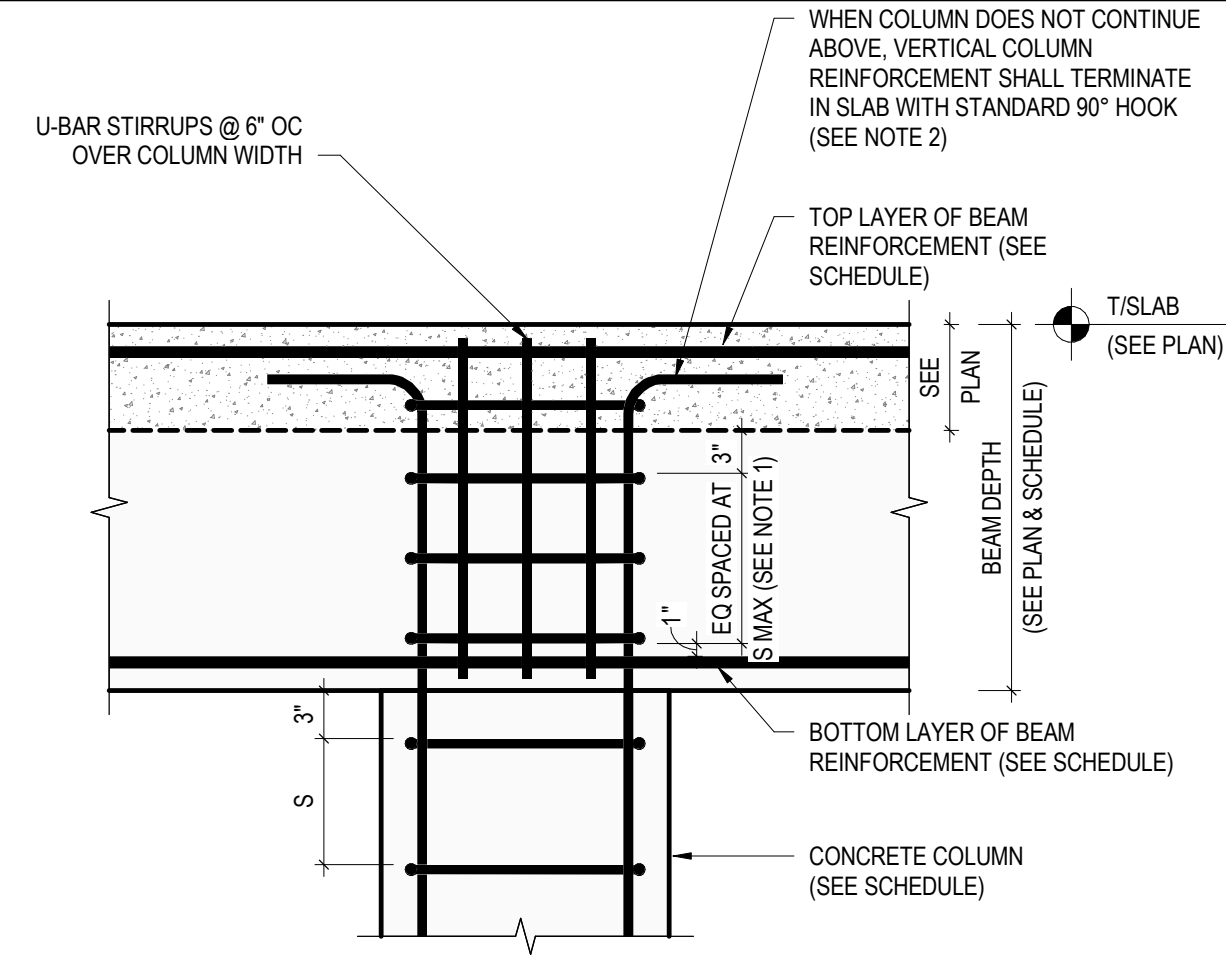
NOTES:
1. ADDITIONAL TIE WITHIN SLAB DEPTH NOT REQUIRED WHEN A BOTTOM MAT OF SLAB REINFORCEMENT IS PRESENT AT COLUMN LOCATION



CONCRETE COLUMN SCHEDULE					
MARK	GEOMETRY		REINFORCING		REMARKS
	WIDTH	DEPTH	VERTICAL	TIES	
CC1212A	12"	12"	(4) - #6	#3 @ 12" OC	
CC1212B	12"	12"	(4) - #7	#3 @ 12" OC	
CC1616	16"	16"	(4) - #8	#3 @ 14" OC	
CC1624	16"	24"	(8) - #7	#3 @ 14" OC	



NOTES:
1. DEVIATION FROM MAXIMUM TOLERANCES SHOWN ABOVE SHALL BE CORRECTED PRIOR TO PLACEMENT OF CONCRETE SLAB. WHEN TOP-OF-COLUMN IS INSTALLED BELOW BOTTOM-OF-SLAB BY MORE THAN THE TOLERANCE SHOWN ABOVE, THE DIFFERENCE SHALL BE POURED CONCRETE WITH STRENGTH EQUAL TO THE REQUIRED COLUMN STRENGTH.



NOTES:
1. TIES NOT REQUIRED OVER DEPTH OF BEAM WHEN BEAMS OR BRACKETS FRAME INTO A COLUMN FROM FOUR DIRECTIONS.
2. BEAM REINFORCEMENT ELEVATION OVER COLUMN SHALL REMAIN AS SHOWN ON CONCRETE BEAM DETAILS. COORDINATE HOOK ELEVATION OF COLUMN VERTICAL REINFORCEMENT WITH BEAM TOP REINFORCEMENT ACCORDINGLY.

1C CONCRETE COLUMN AT ROOF

3/4" = 1'-0"

1 COLUMN PLAN DETAILS

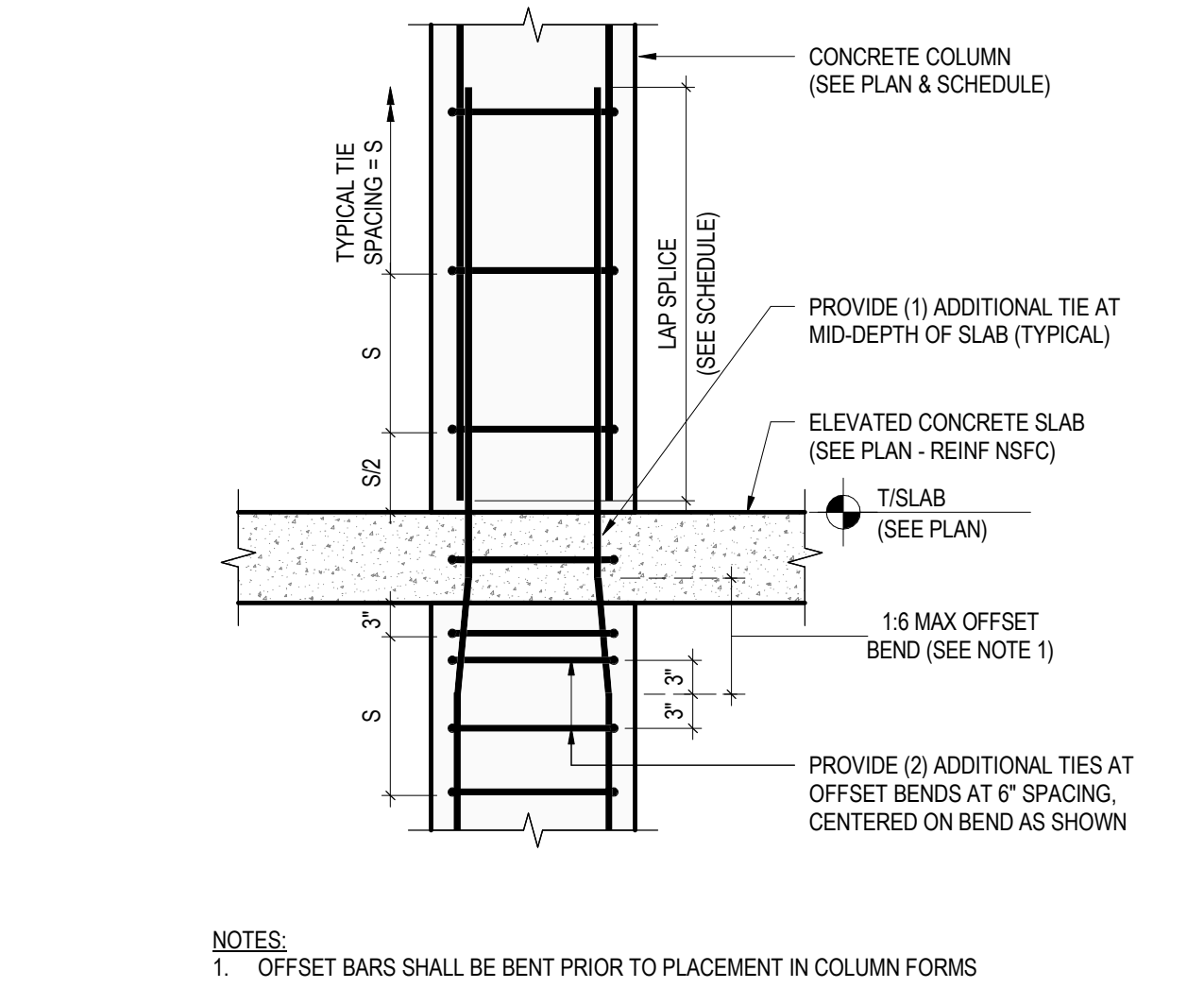
1" = 1'-0"

3 TOP-OF-COLUMN ELEVATION TOLERANCE

3/4" = 1'-0"

4 TOP-OF-COLUMN AT BEAM

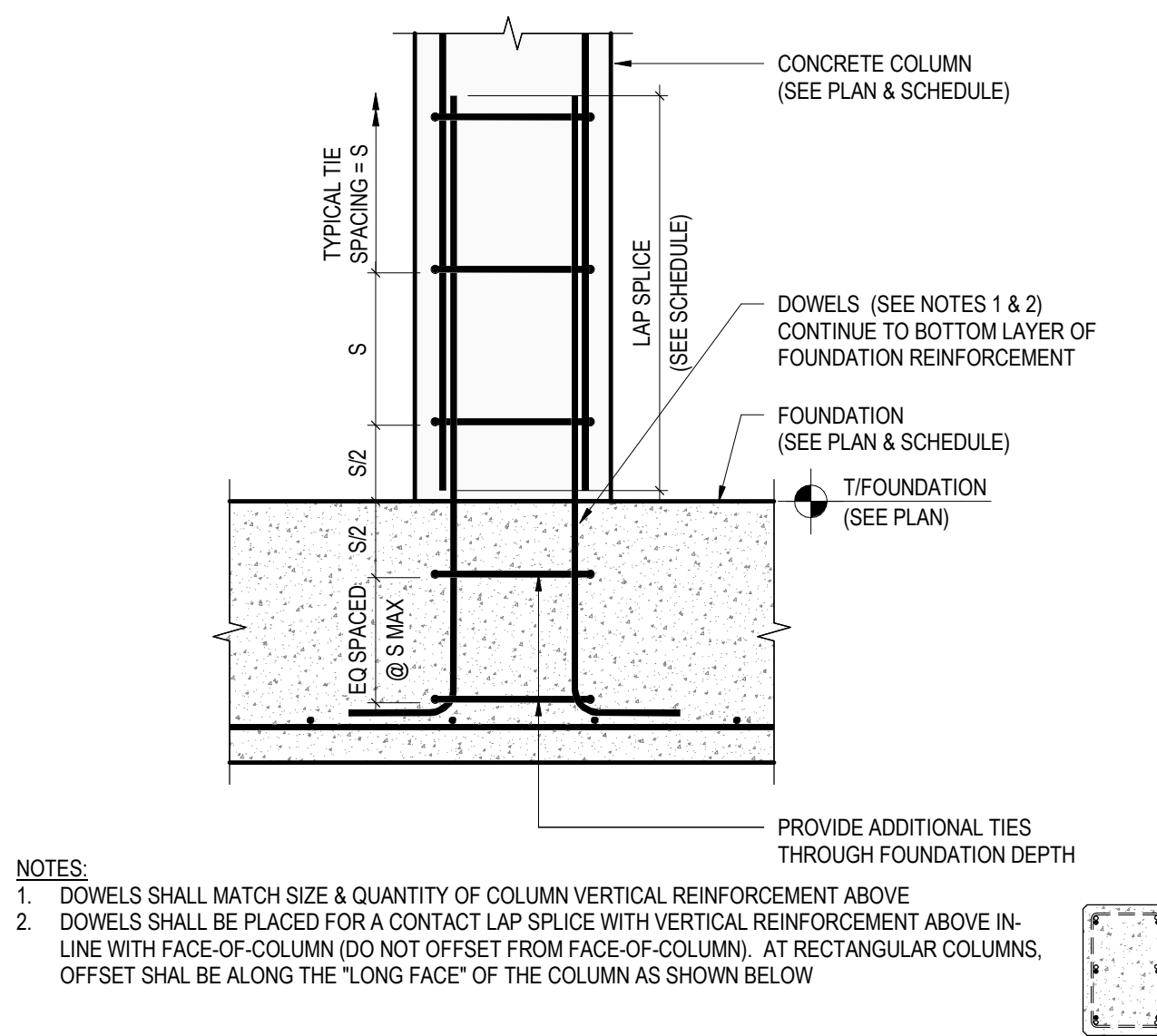
1" = 1'-0"



NOTES:
1. OFFSET BARS SHALL BE BENT PRIOR TO PLACEMENT IN COLUMN FORMS

1B CONCRETE COLUMN AT SLAB

3/4" = 1'-0"



NOTES:
1. DOWELS SHALL MATCH SIZE & QUANTITY OF COLUMN VERTICAL REINFORCEMENT ABOVE.
2. DOWELS SHALL BE PLACED FOR A CONTACT LAP SPICE WITH VERTICAL REINFORCEMENT ABOVE IN-LINE WITH FACE-OF-COLUMN (DO NOT OFFSET FROM FACE-OF-COLUMN). AT RECTANGULAR COLUMNS, OFFSET SHALL BE ALONG THE LONG FACE OF THE COLUMN AS SHOWN BELOW.

1A CONCRETE COLUMN AT FOUNDATION

3/4" = 1'-0"

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TYPICAL
CONCRETE
COLUMN
DETAILS

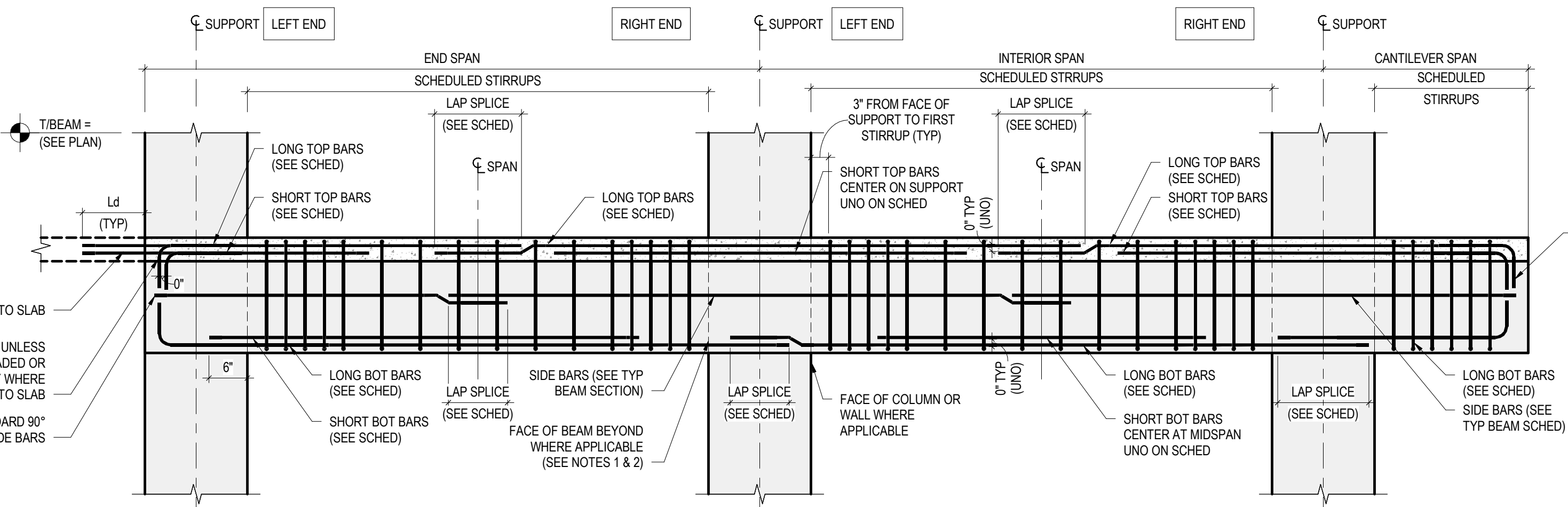
S-340



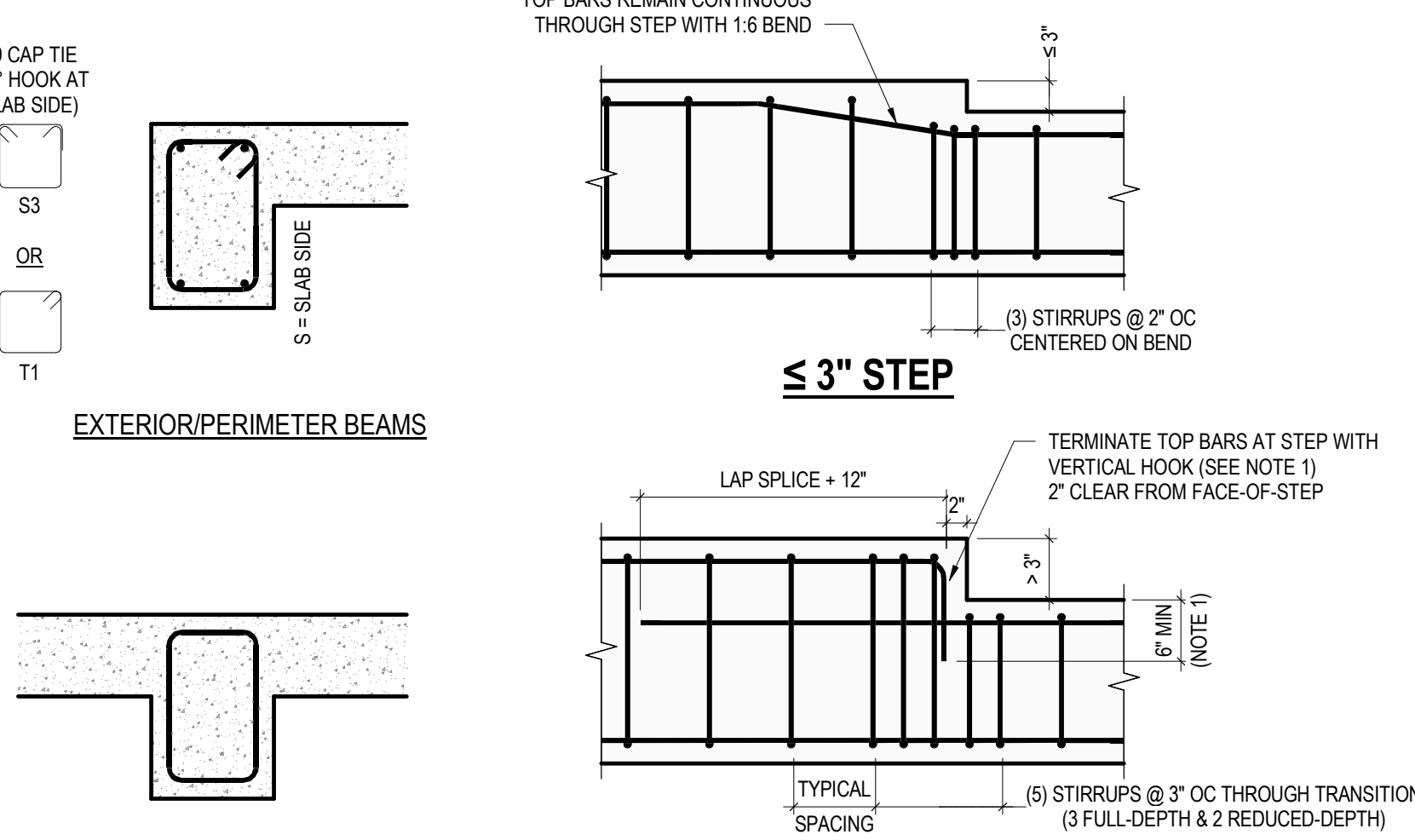
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- NOTES:
- ELEVATION AS SHOWN REPRESENTS STIRRUP ARRANGEMENT AT COLUMN SUPPORTS.
 - FOR STIRRUP ARRANGEMENT AT BEAM SUPPORT SEE TYPICAL DETAILS AT BEAM JOINT SUPPORT.
 - CONTRACTOR SHALL MINIMIZE NUMBER OF SPLICES.
 - IF SPLICES ARE REQUIRED THE SPLICES SHALL BE LOCATED WHERE INDICATED ON THIS DETAIL.



- NOTES:
- VERTICAL HOOK LENGTH AT TERMINATED TOP BARS SHALL BE SUCH THAT 6" MINIMUM LENGTH IS BELOW THE TOP-OF-REDUCED BEAM SECTION, OR A STANDARD ACI 90° HOOK LENGTH, WHICHEVER IS GREATER

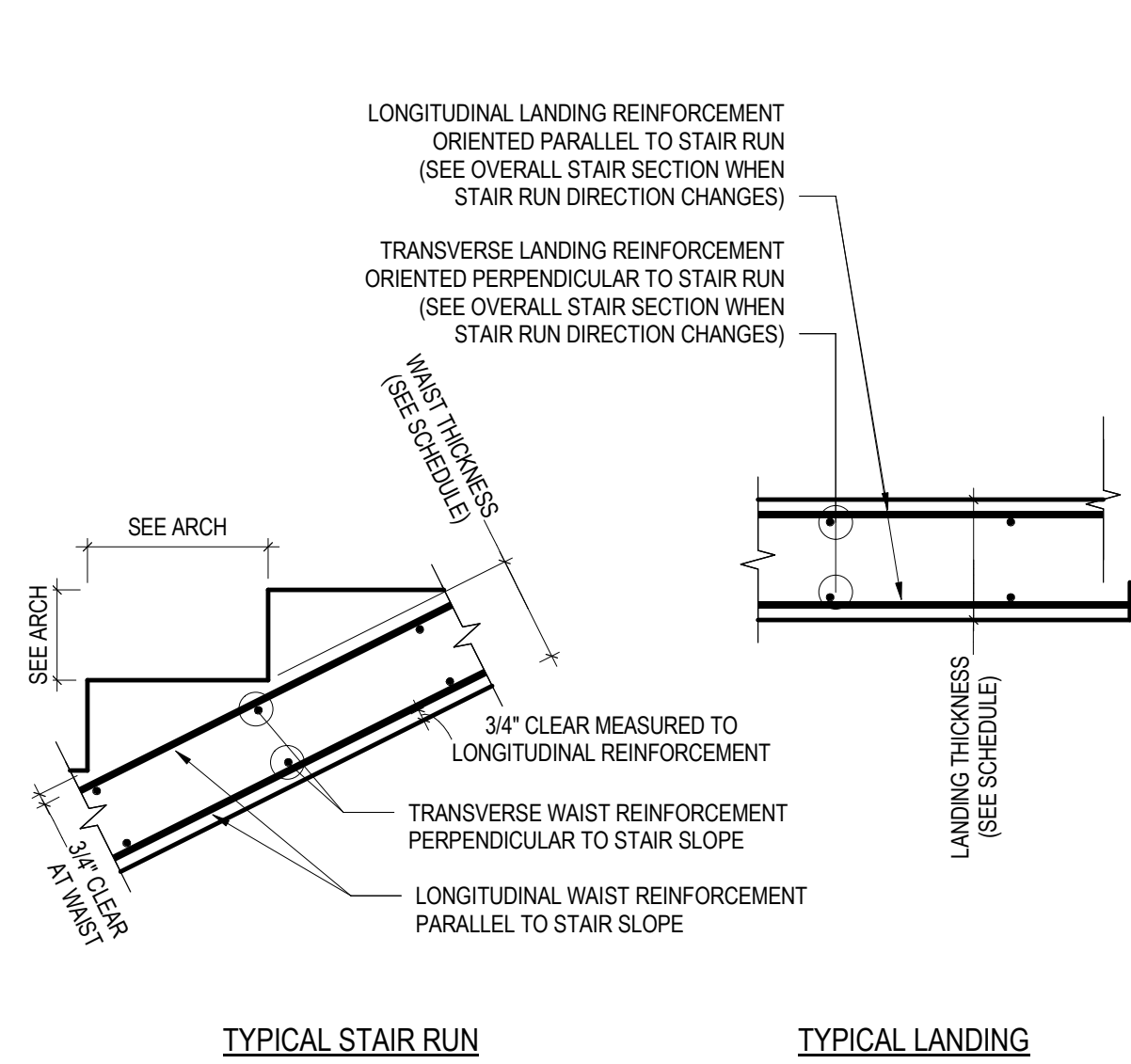
1 TYPICAL CONCRETE BEAM ELEVATION

2 BEAM STEP TRANSITION

3/4" = 1'-0"

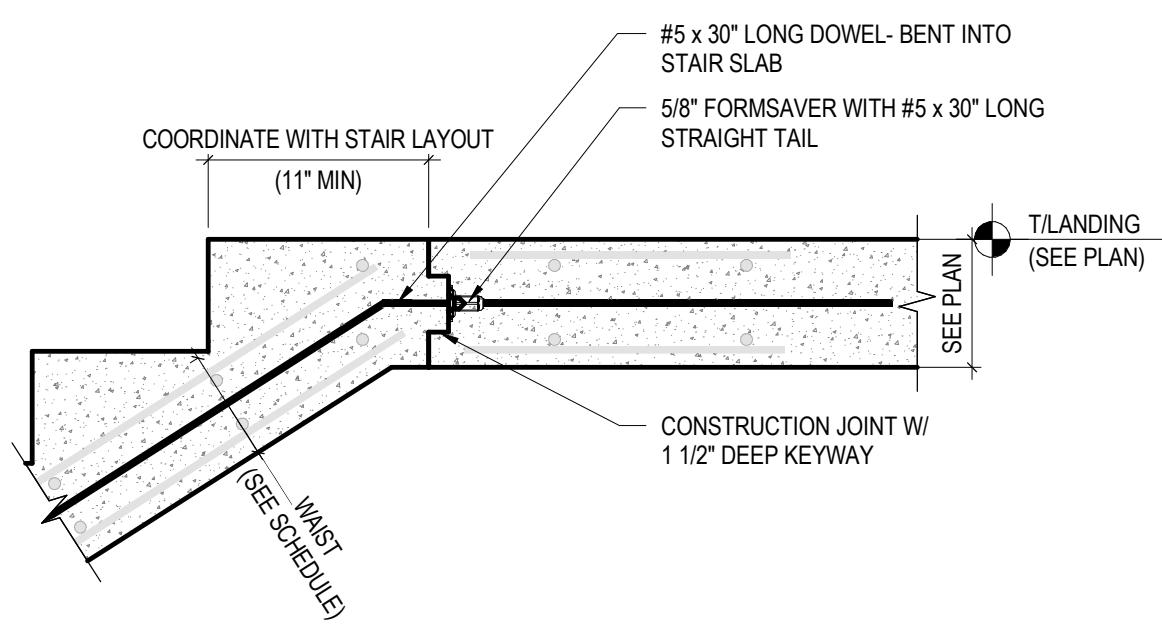
3/4" = 1'-0"

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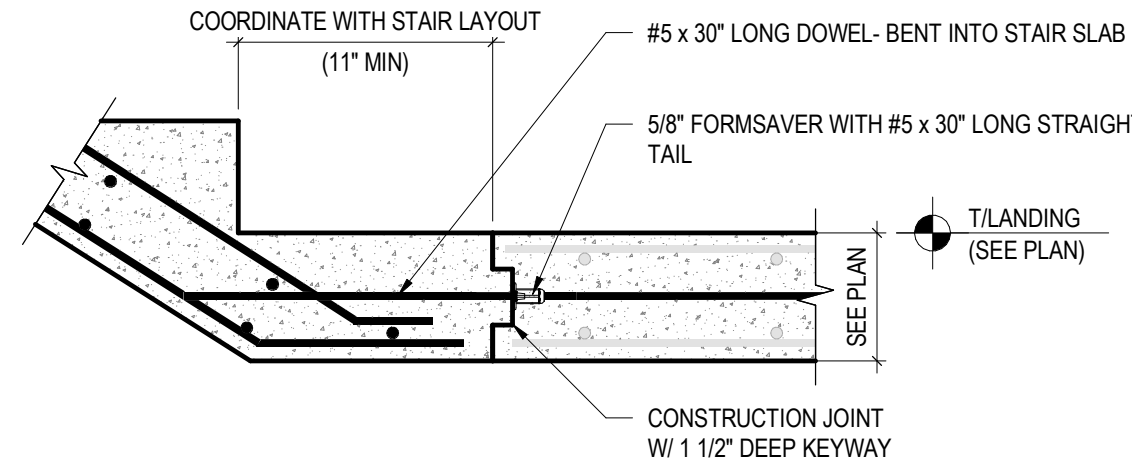


1 TYPICAL CAST-IN-PLACE CONCRETE STAIR DETAILS
1" = 1'-0"

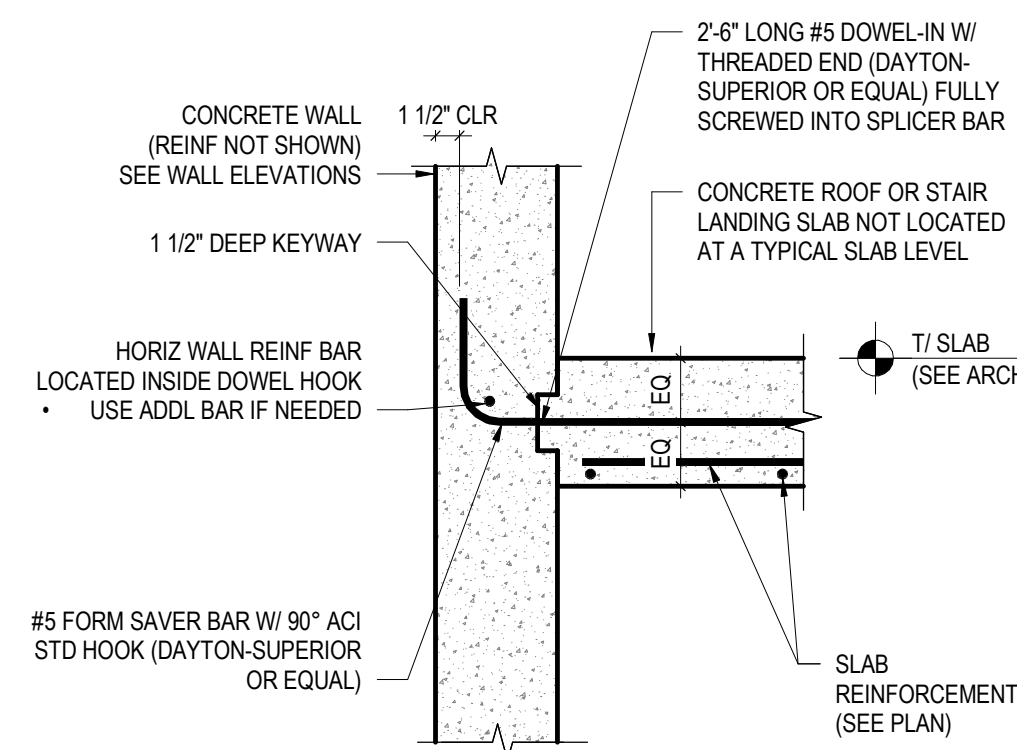
CONCRETE STAIR SLAB SCHEDULE				
MARK (SEE SECTION)	TYPE	THICKNESS	REINFORCEMENT	
			LONGITUDINAL	TRANSVERSE
7L1	STAIR LANDING	7"	#5 AT 12" OC T&B	#5 AT 8" OC T&B
8L1	STAIR LANDING	8"	#5 AT 12" OC T&B	#5 AT 8" OC T&B
9L1	STAIR LANDING	9"	(6) - #5 T&B	(6) - #5 T&B
7W1	STAIR WAIST	7"	(6) - #5 T&B	#5 AT 18" OC T&B
8W1	STAIR WAIST	8"	(6) - #5 T&B	#5 AT 18" OC T&B



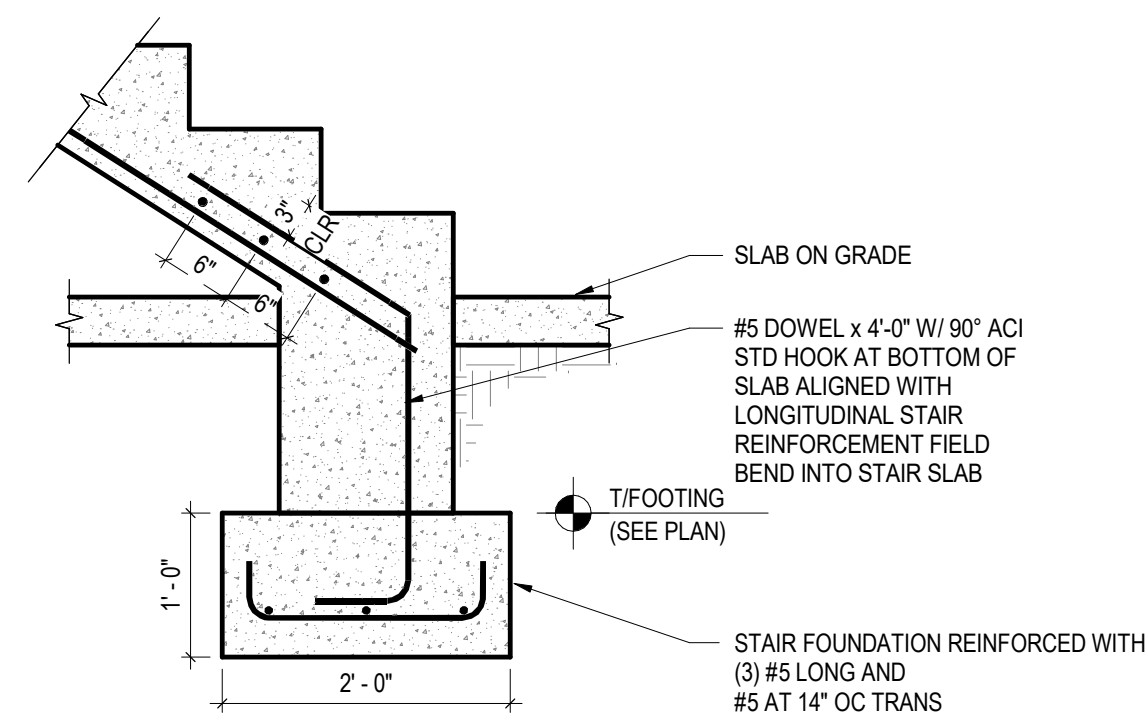
2 STAIR DOWN TRANSITION AT LANDING
1" = 1'-0"



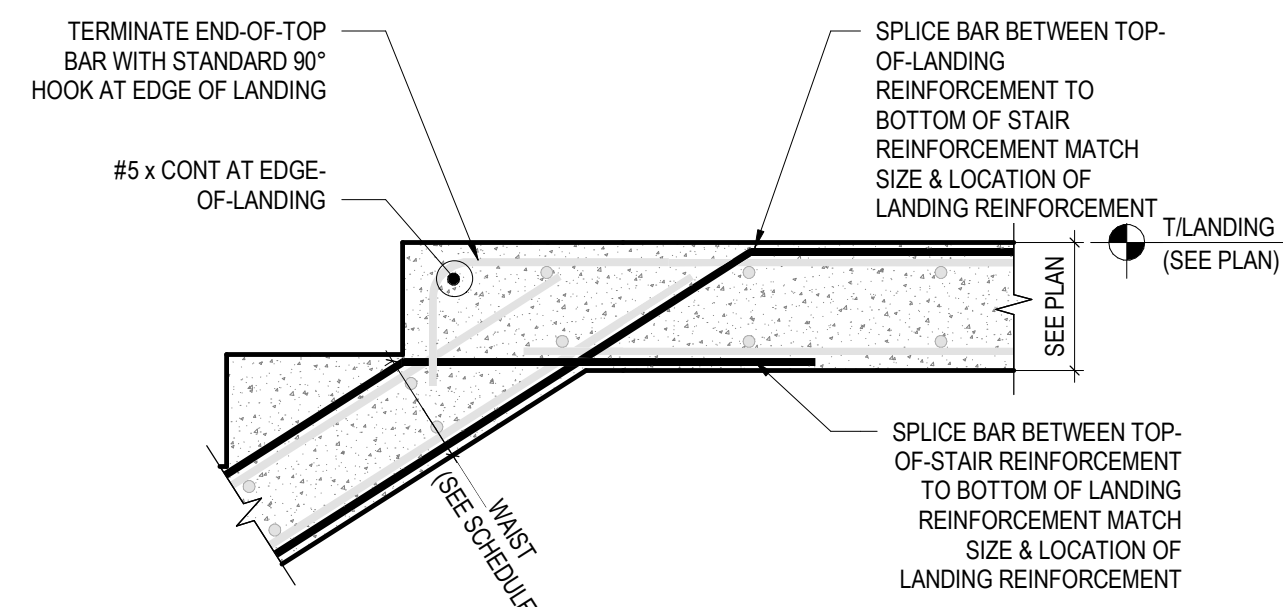
3 STAIR UP TRANSITION AT LANDING
1" = 1'-0"



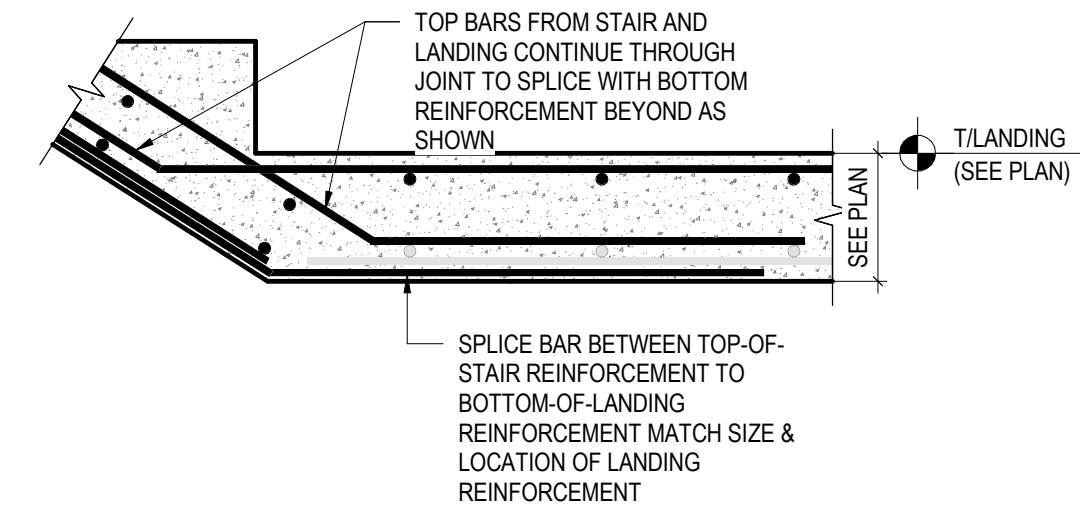
4 INTERMEDIATE SLAB ATTACHMENT
1" = 1'-0"



5 CONCRETE STAIR AT FOUNDATION
3/4" = 1'-0"



6 STAIR DOWN TRANSITION AT MIDHEIGHT
1" = 1'-0"



7 STAIR UP TRANSITION AT MIDHEIGHT
1" = 1'-0"



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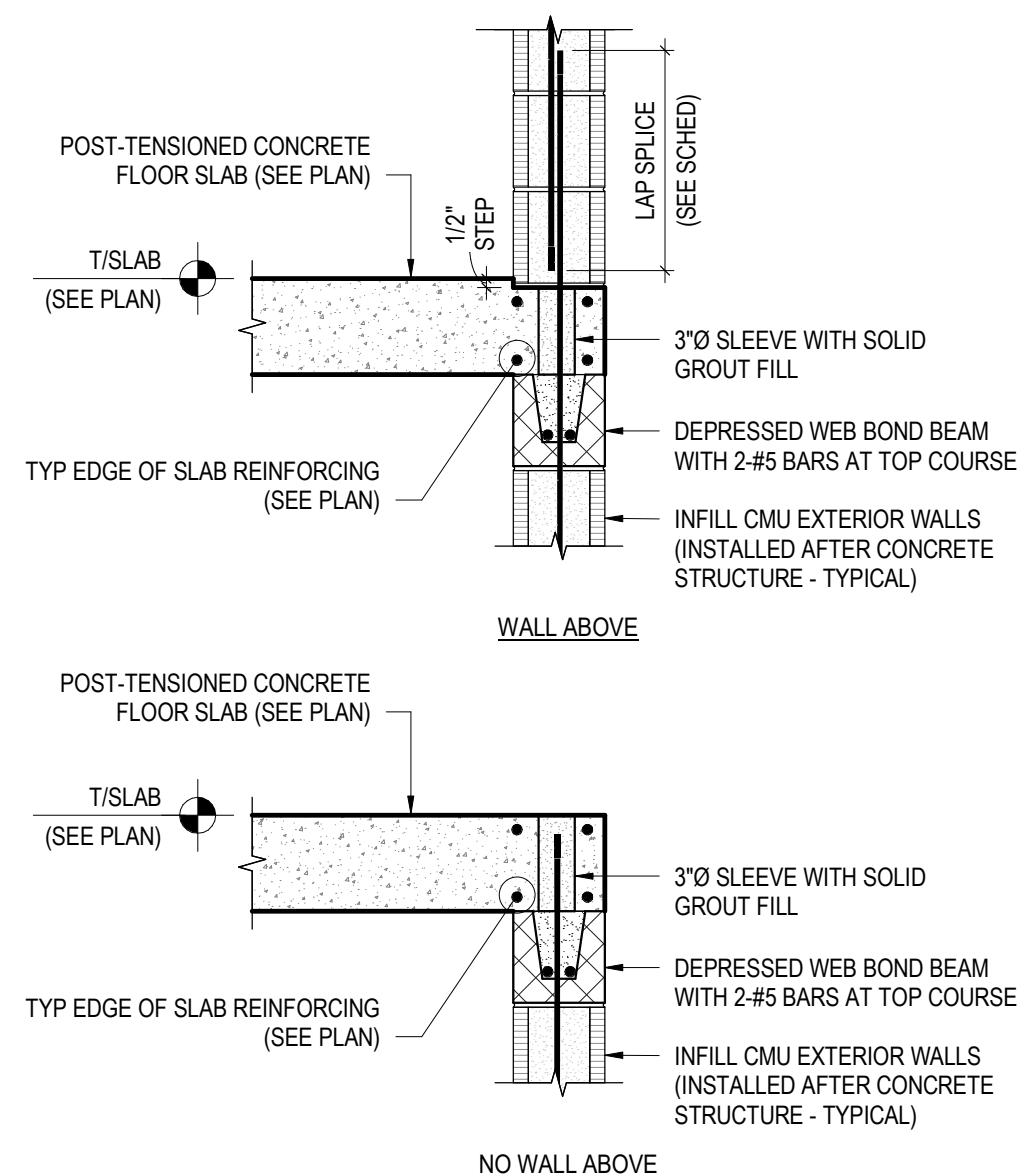
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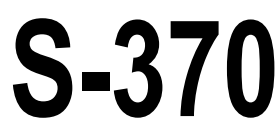
CONCRETE
STAIR
DETAILS

S-360



2
S-370

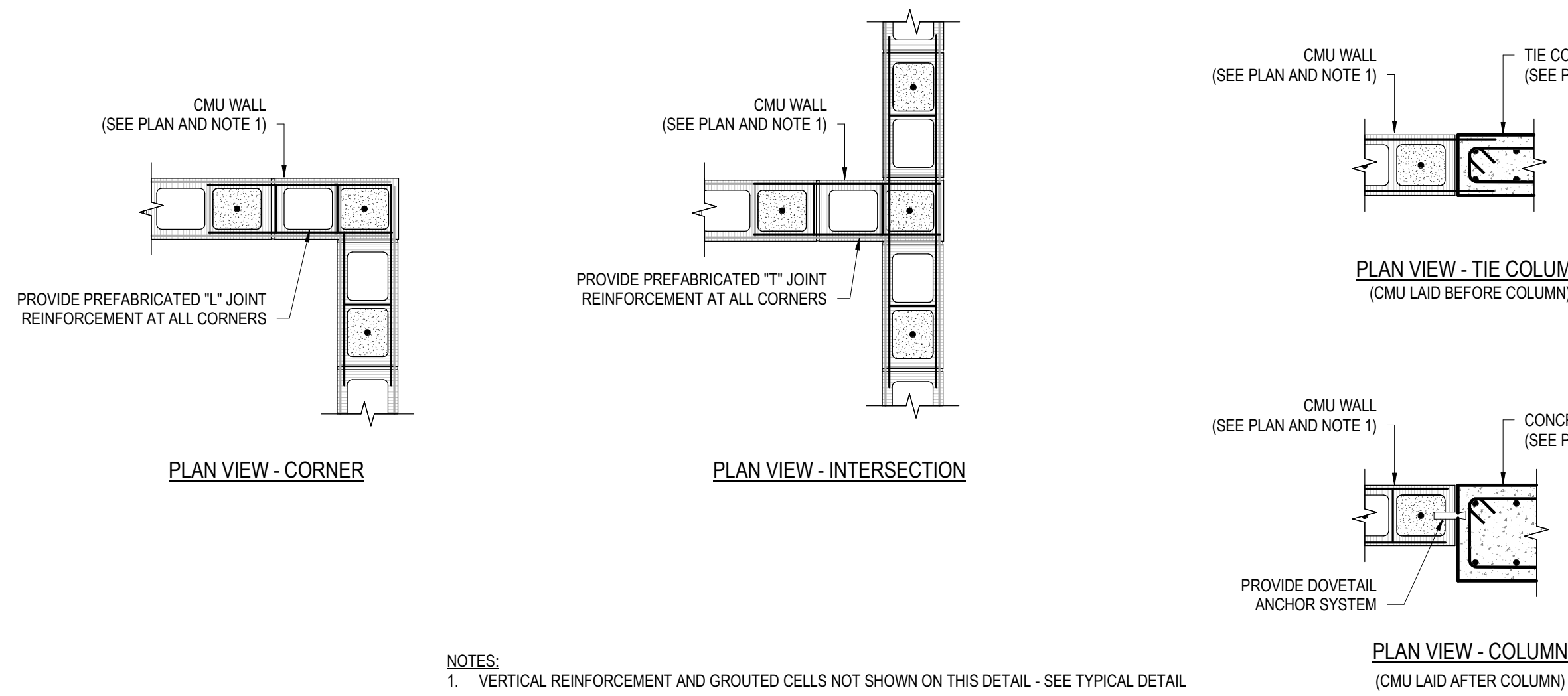
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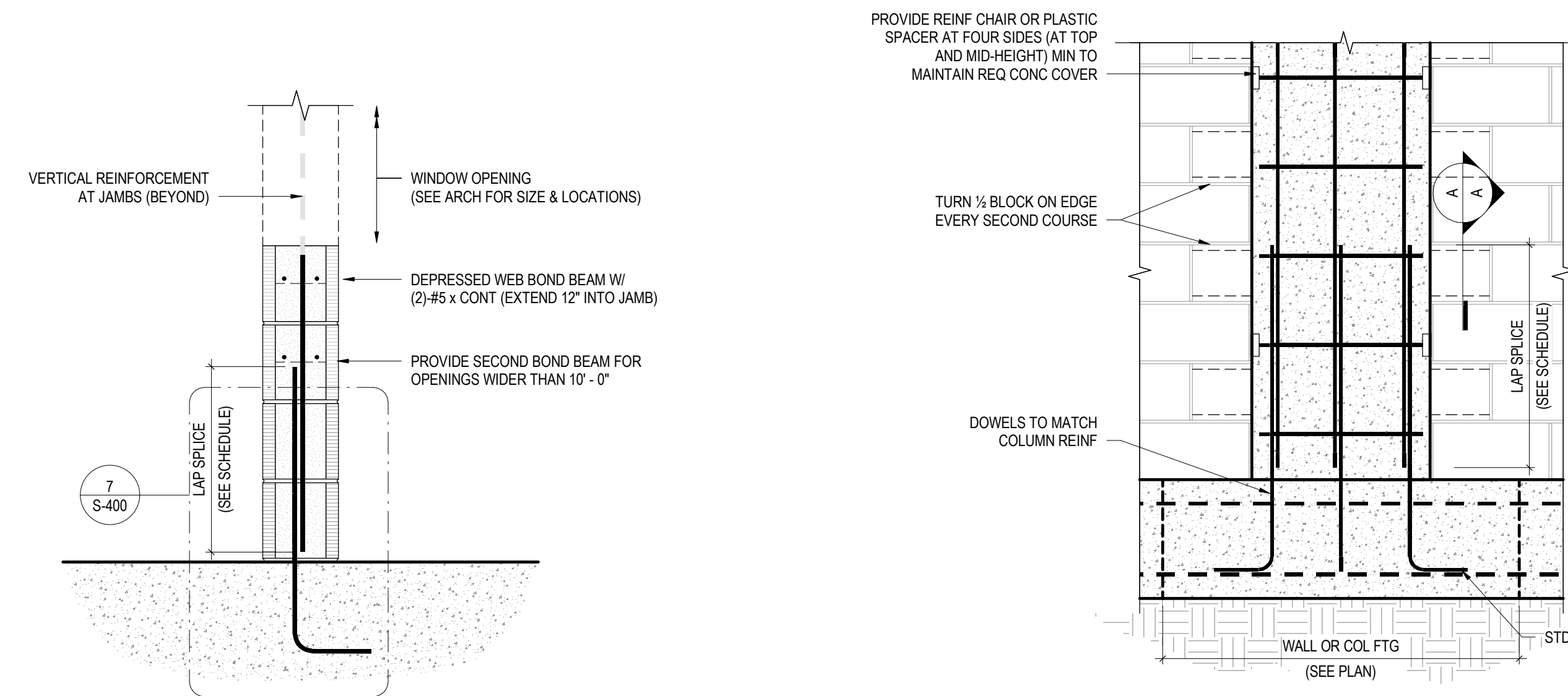
1 CMU WALL CONSTRUCTION - PERSPECTIVE

1/2" = 1'-0"



4 CMU JOINT REINFORCEMENT

3/4" = 1'-0"



8 CMU SILL - SECTION

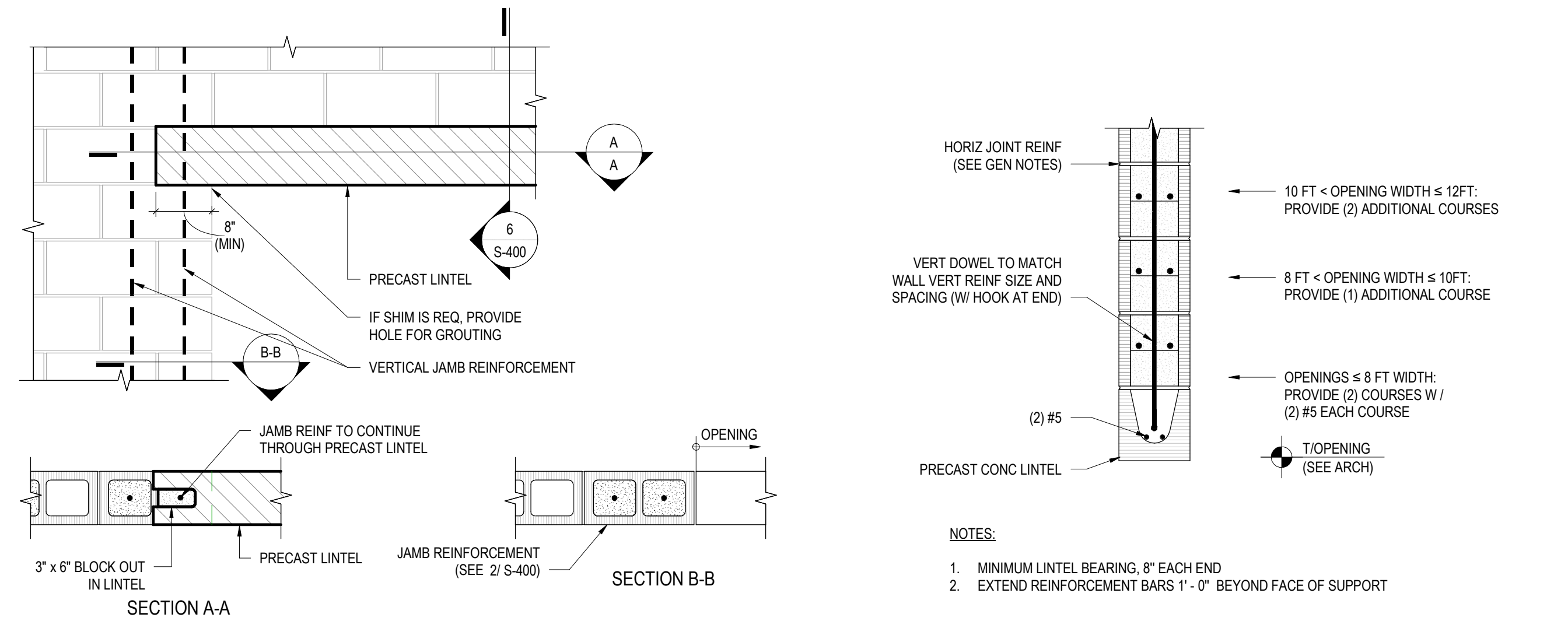
1" = 1'-0"

9 TYPICAL CONCRETE TIE COLUMN

3/4" = 1'-0"

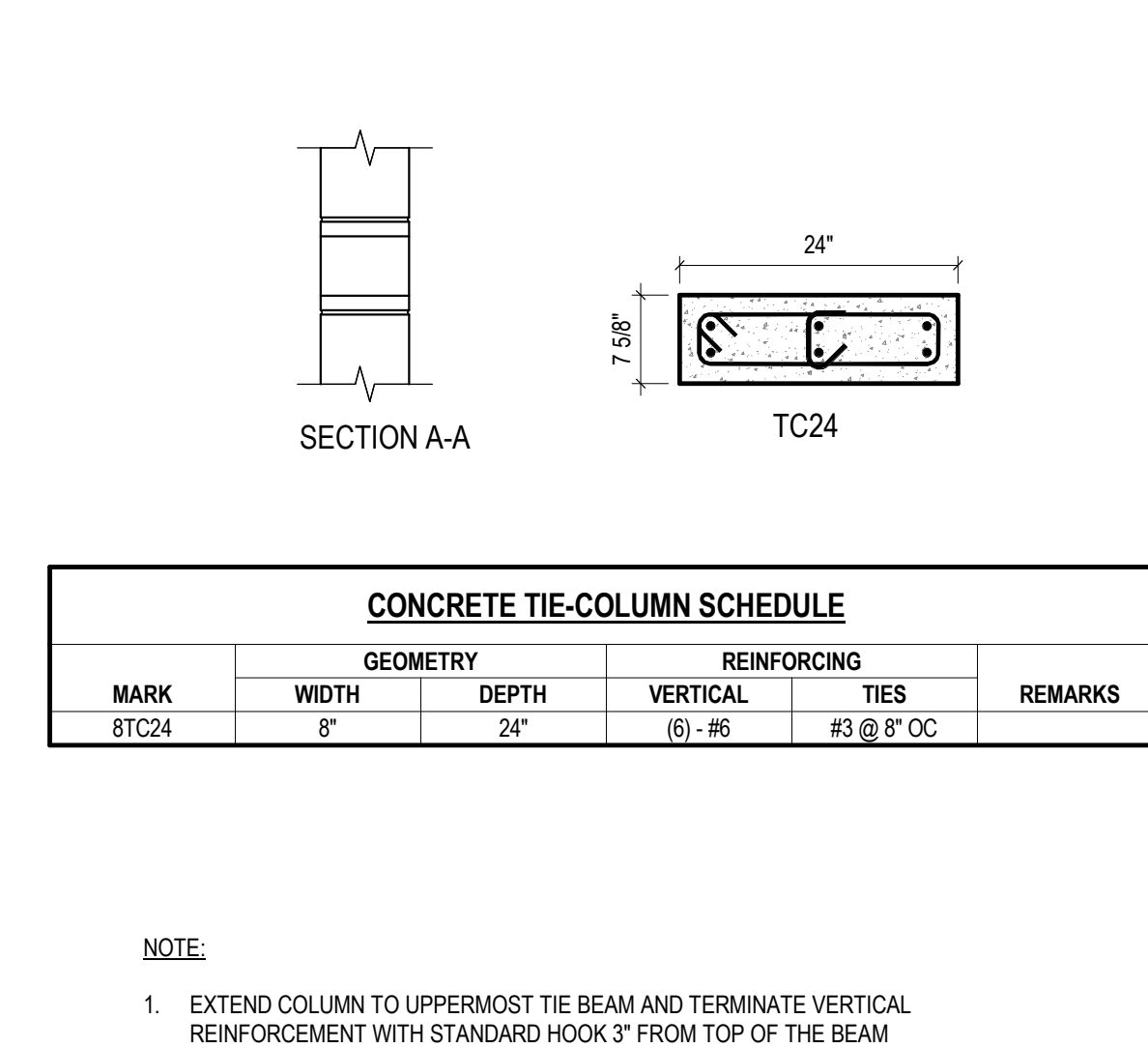
2 CMU WALL REINFORCEMENT

3/4" = 1'-0"



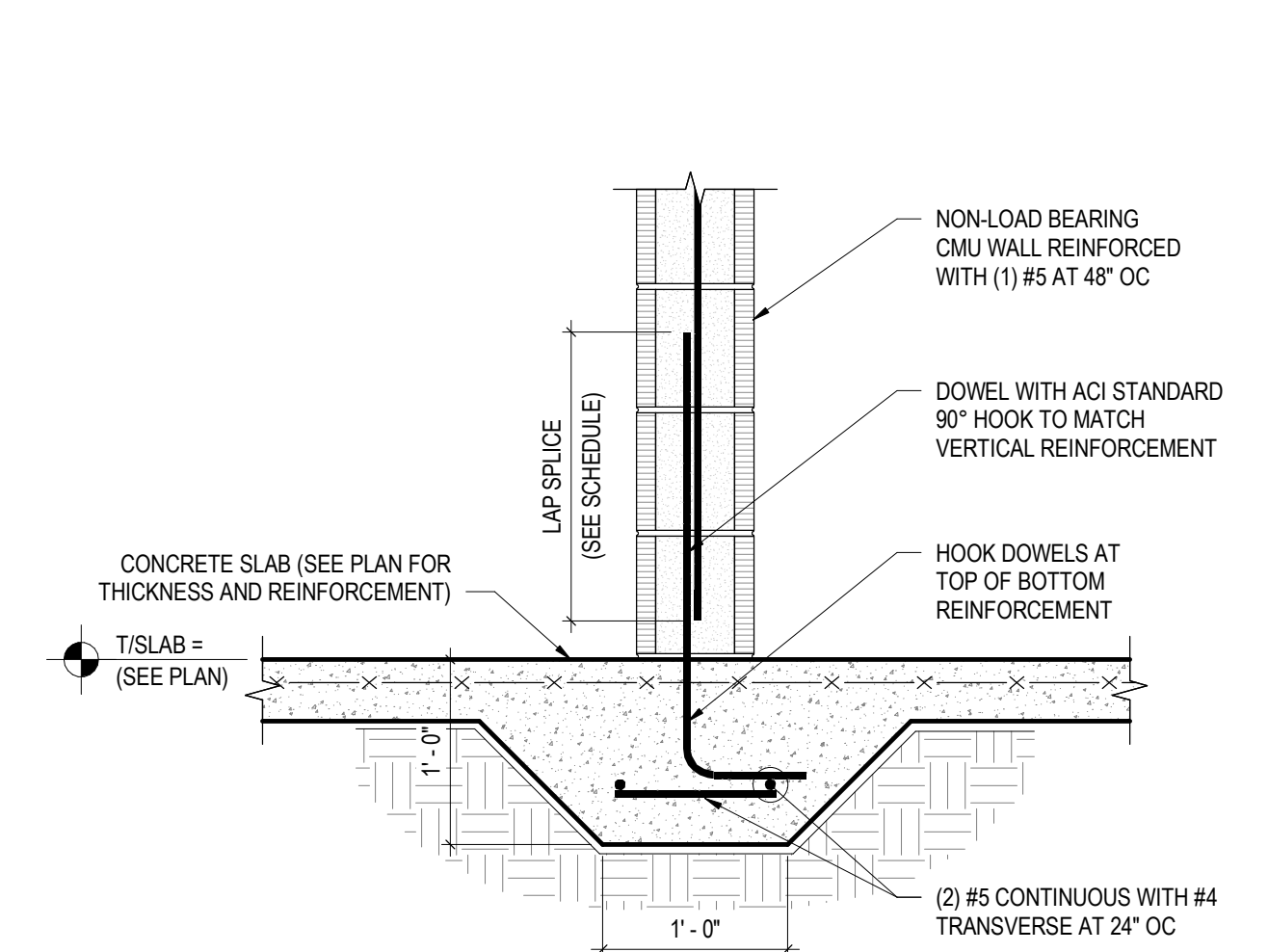
5 CMU PRECAST LINTEL

3/4" = 1'-0"



6 CMU LINTEL AT OPENING

1" = 1'-0"

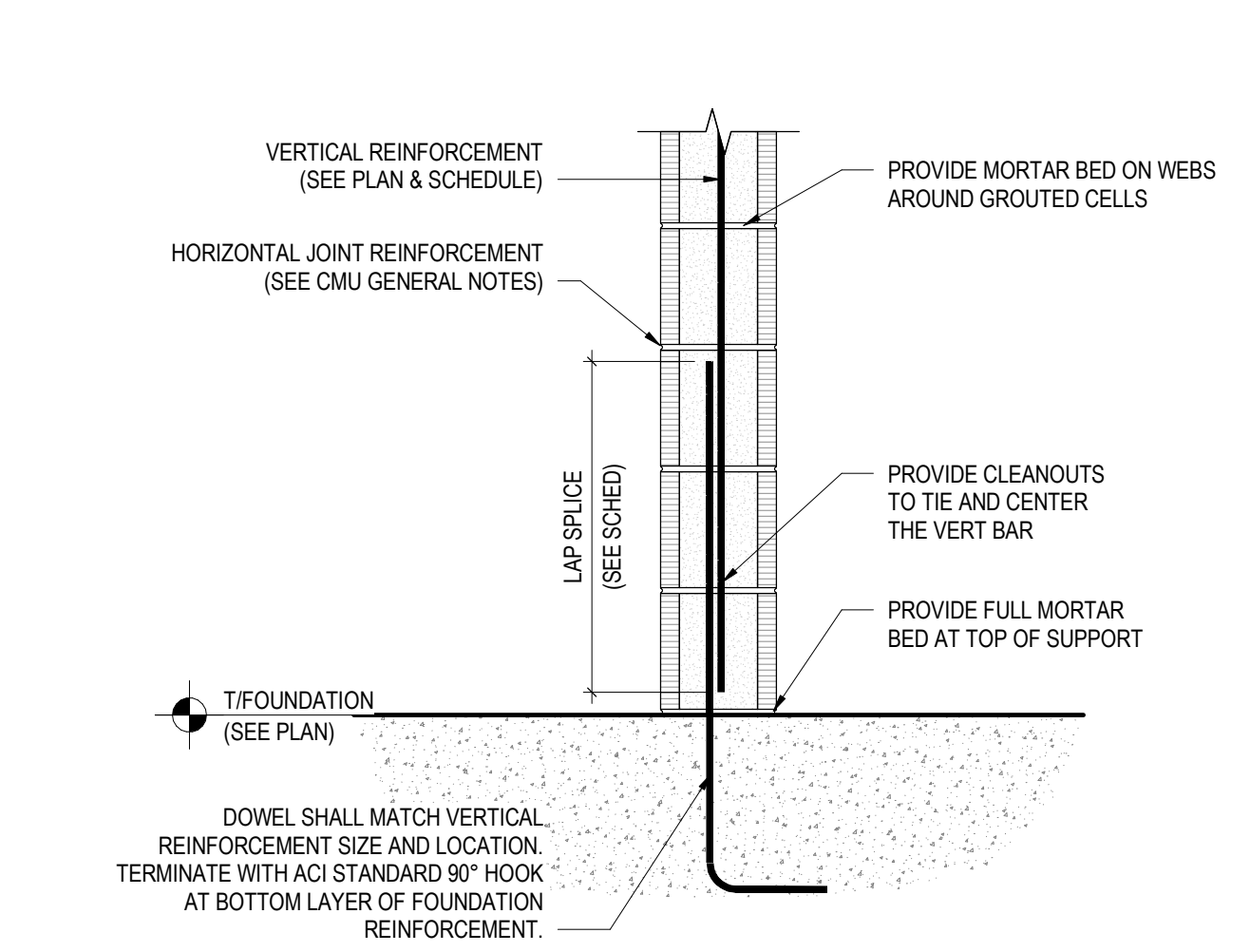


10 THICKENED SLAB AT CMU WALL

1" = 1'-0"

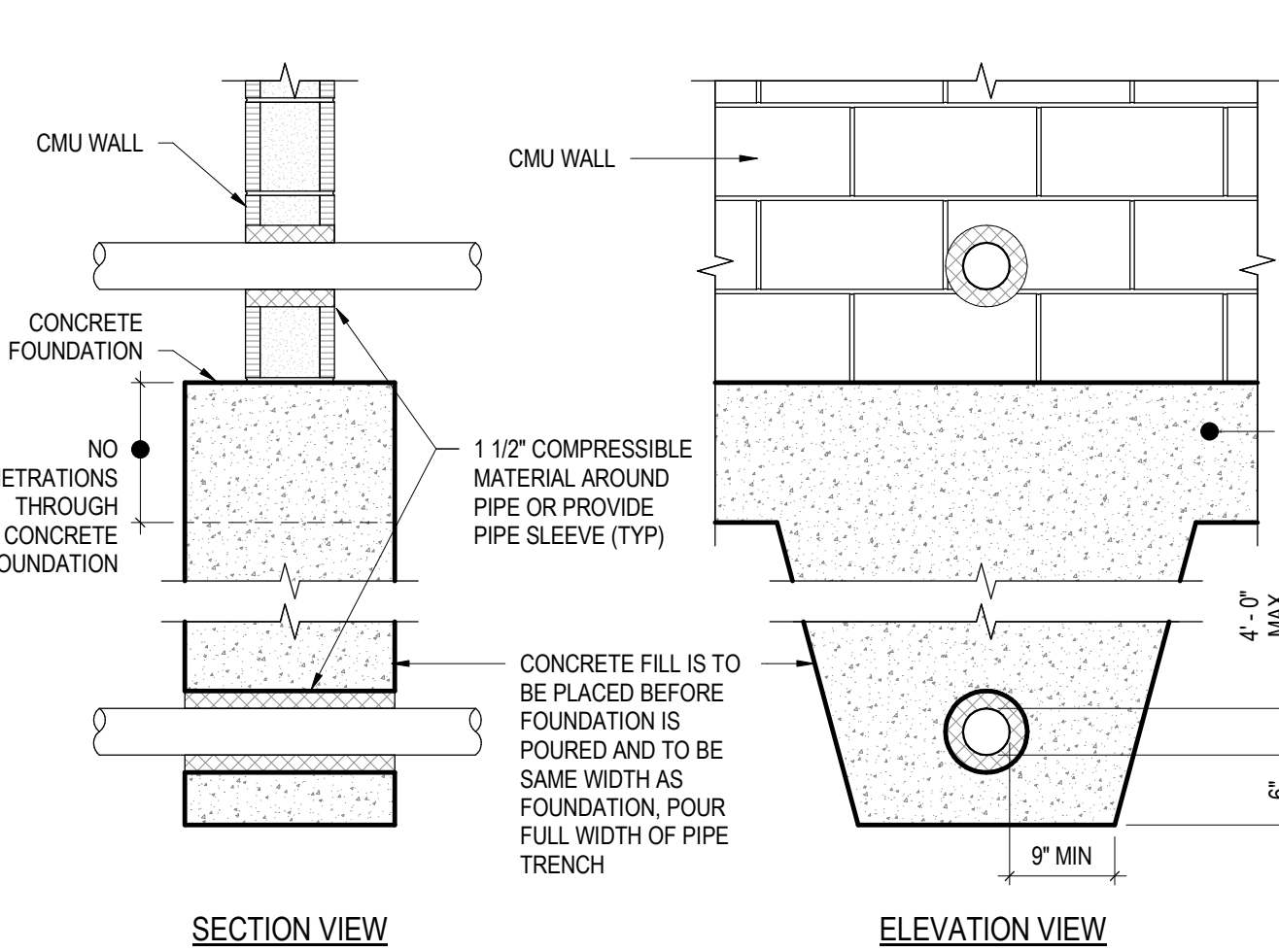
3 CMU CONTROL JOINTS

1" = 1'-0"



7 BASE-OF-CMU WALL CONNECTION

1" = 1'-0"



11 PIPE PENETRATION THROUGH WALL OR BELOW FOUNDATION

3/4" = 1'-0"



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TYPICAL
MASONRY
DETAILS

S-400

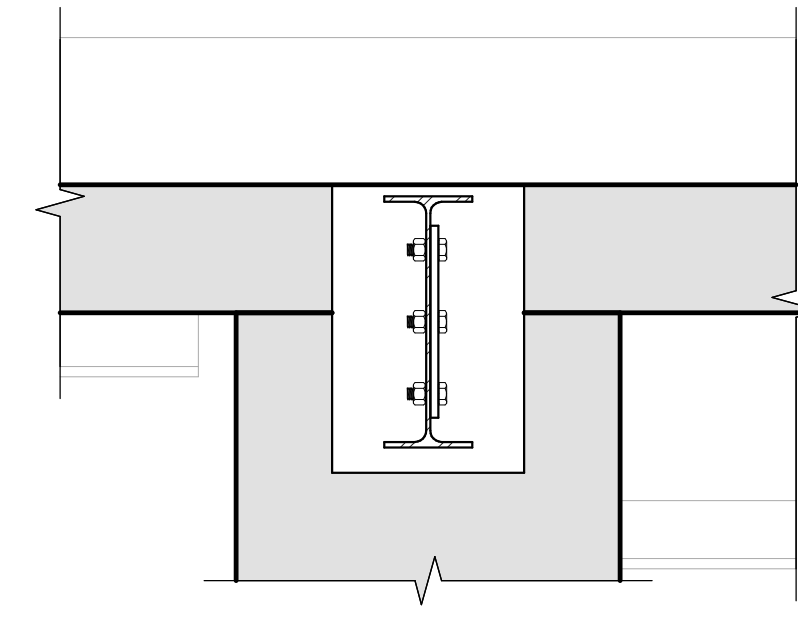
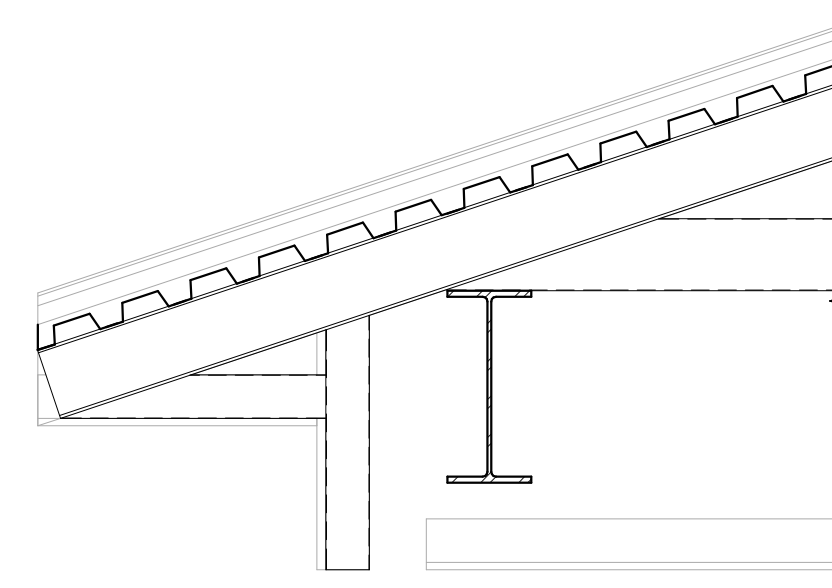
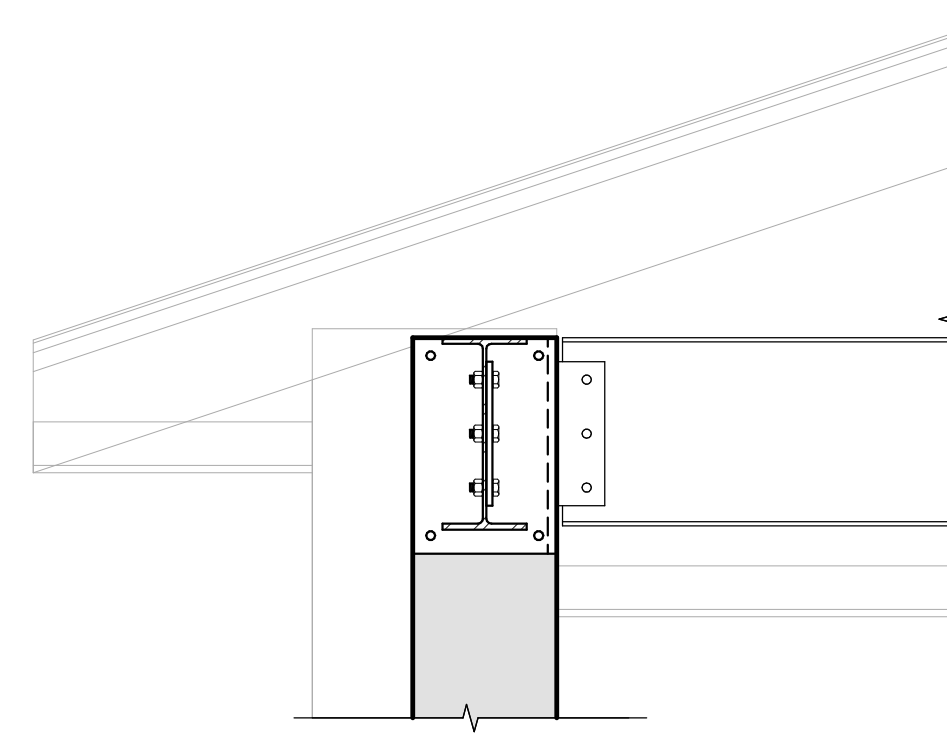
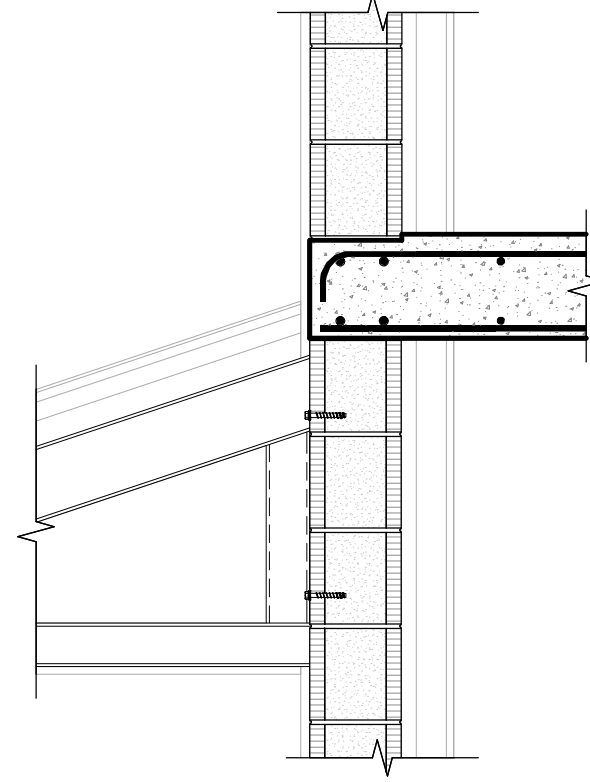
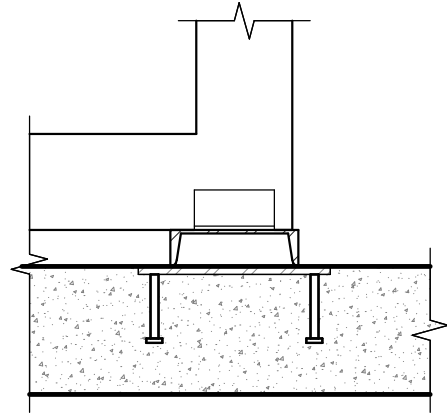
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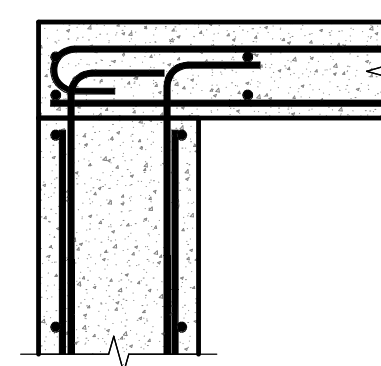
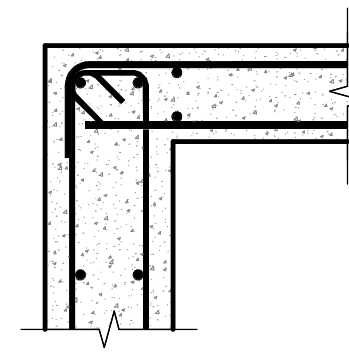
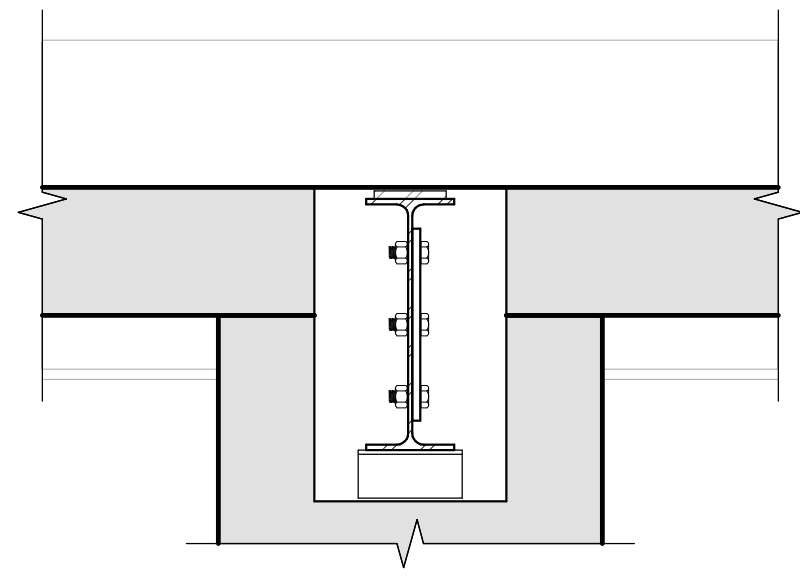
1
S-600
CFS ROOF TRUSS CONNECTION TO SLAB
1" = 1'-0"

2
S-600
AREA B CANOPY CONNECTION
3/4" = 1'-0"

3
S-600
STEEL BEAM TO COLUMN CONNECTION AT
PARKING ROOF
3/4" = 1'-0"

4
S-600
CFS ROOF TRUSS TO STEEL BEAM
CONNECTION AT PARKING ROOF
3/4" = 1'-0"

5
S-600
STEEL BEAM TO TIE COLUMN
CONNECTION AT PARKING
1" = 1'-0"

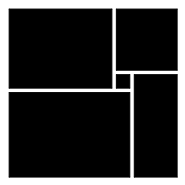


6
S-600
STEEL OUTRIGGER TO COLUMN
CONNECTION AT PARKING
1" = 1'-0"

7
S-600
ELEVATOR POP-UP CAP-TO-BEAM
CONNECTION
1" = 1'-0"

8
S-600
ELEVATOR POP-UP CAP-TO-WALL
CONNECTION
1" = 1'-0"

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FRAMING
DETAILS

S-600



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