

ISOMETRIC VIEW - FOR REFERENCE ONLY

GENERAL REQUIREMENTS

A. THE GENERAL STRUCTURAL NOTES EMPLOY THE FOLLOWING DEFINITIONS AND ABBREVIATIONS: 1. CONTRACT DOCUMENTS – THE LATEST SET OF DRAWINGS, SPECIFICATIONS, AND RECORDED ADDENDA AND AMENDMENTS ISSUED FOR BID OR CONSTRUCTION. 2. LICENSED PROFESSIONAL (STRUCTURAL) ENGINEER – AN ENGINEER LICENSED IN THE STATE IN WHICH THE

PROJECT IS LOCATED AND QUALIFIED TO PERFORM THE WORK REQUIRED. 3. STRUCTURAL ENGINEER OF RECORD – LICENSED PROFESSIONAL ENGINEER WHO IS IN RESPONSIBLE CHARGE FOR THE PREPARATION, SIGNING, DATING, SEALING, AND ISSUING OF STRUCTURAL ENGINEERING

DOCUMENTS FOR ENGINEERING SERVICE OR CREATIVE WORK. 4. DELEGATED ENGINEER – A LICENSED PROFESSIONAL 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 AN EMPLOYEE OR OFFICER OF A FABRICATOR OR CONTRACTOR

5. DELEGATED ENGINEERING DOCUMENTS – ENGINEERING DOCUMENTS THAT ARE PREPARED BY A DELEGATED

6. DESIGN TEAM - DESIGN PROFESSIONALS INCLUDING THE ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER. MEP ENGINEER. AND ANY OTHER CONSULTANT THAT ISSUES CONTRACT DOCUMENTS. CONTRACTOR – GENERAL CONTRACTOR, CONSTRUCTION MANAGER, DESIGN BUILDER, OR ANY OTHER ENTITY CONTRACTED BY THE OWNER TO PERFORM THE WORK.

ON STANDARD PRODUCTS. SHOP DRAWINGS SHALL BE PREPARED BASED ON ENGINEERING DIRECTION CONTAINED IN CONTRACT DOCUMENTS BY A CONTRACTOR, FABRICATOR, MANUFACTURER, OR LICENSED PROFESSIONAL ENGINEER, FOR INCORPORATION INTO THE PROJECT. 9. ESTABLISHED CHANNELS – AT THE ONSET OF THE PROJECT, ARCHITECT, OWNER, AND CONTRACTOR SHALL

SHOP DRAWINGS - DRAWINGS DEPICTING INSTALLATION MEANS AND METHODS AND CATALOG INFORMATION

ESTABLISH DESIRED LINES OF COMMUNICATION BETWEEN ALL PROJECT PARTIES. THESE AGREED UPON LINES OF COMMUNICATION ARE THE ESTABLISHED CHANNELS.

GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE DESIGN AND CONSTRUCTION OF THE ENTIRE PROJECT AND THUS ARE APPLICABLE TO EVERY SHEET WITHIN THIS SET. C. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION, OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT

). ISOMETRIC VIEWS ARE FOR VISUALIZATION PURPOSES ONLY AND DO NOT CONVEY ALL OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS :. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE DRAWINGS AND ANY OTHER CONTRACT DOCUMENT OR APPLICABLE CODE OR STANDARD OF PRACTICE DURING BIDDING, THE PROVISION RESULTING IN THE GREATER COST APPLIES. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT DURING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION TO THE DESIGN TEAM, WHO WILL PROVIDE

SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OTHERWISE.

A WRITTEN RESPONSE IN RETURN. F. SPECIFICATIONS HAVE BEEN ISSUED ON THIS PROJECT BY THE STRUCTURAL ENGINEER OF RECORD AND ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. G. SEE SPECIFICATIONS FOR MATERIALS TESTING REQUIREMENTS.

H. 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 QUALITY AND CORRECTNESS OF THE WORK. 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 CURBS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC. THE BUILDING HAS BEEN DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD TO RESIST THE CODE REQUIRED

VERTICAL AND LATERAL FORCES IN ITS FULLY COMPLETED CONDITION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED BRACING, SHORING, AND OTHER CONSTRUCTION SUPPORTS NECESSARY TO ENSURE THE BUILDING'S STABILITY AND SAFETY THROUGHOUT THE DURATION OF CONSTRUCTION. FURTHER, THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PROVIDE THE ANALYSIS AND DESIGN NECESSARY TO DETERMINE POTENTIALLY OVERLOADED, UNSTABLE, OR HAZARDOUS CONDITIONS THAT MAY OCCUR AT ANY STAGE DURING CONSTRUCTION. K. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE

CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE CONTRACTOR SHALL NOT EMPLOY CONSTRUCTION MEANS OR METHODS THAT MAY DAMAGE UTILITIES, ADJACENT BUILDINGS, OR PROPERTY. DOCUMENTATION OF ADJACENT CONDITIONS PRIOR TO CONSTRUCTION IS RECOMMENDED. FURTHER, THE CONTRACTOR SHALL EITHER ADEQUATELY CONFINE THE SITE OR PROTECT ADJACENT PROPERTY FROM DAMAGE. M. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROJECT SAFETY AND OSHA REQUIREMENTS. SHOULD

THE STRUCTURAL ENGINEER OF RECORD NOTIFY THE CONTRACTOR OF A POTENTIALLY UNSAFE CONDITION, IT IS SOLELY AS A COURTESY FROM ONE PROFESSIONAL TO ANOTHER. IT SHOULD NOT BE INTERPRETED AS THE STRUCTURAL ENGINEER OF RECORD ASSUMING ANY RESPONSIBILITY FOR PROJECT SAFETY. N. ALL 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 BUILDING OWNER. THIS PROGRAM SHALL INCLUDE, BUT NOT BE LIMITED TO: PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTRACTION JOINTS. SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALINE OR OTHER HARSH CHEMICAL ENVIRONMENT. O. THE USE OF DE-ICING CHEMICALS ON ANY EXPOSED STRUCTURAL ELEMENT IS DISCOURAGED AND WILL

ACCELERATE DETERIORATION OF STRUCTURAL ELEMENTS. P. THE BUILDING OWNER SHALL NOT ALTER OR MODIFY ANY STRUCTURAL ELEMENT WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER. FURTHER, BUILDING OWNER SHALL NOT RENOVATE, REPURPOSE, ADD-ON TO, OR OTHERWISE MODIFY THE EXISTING STRUCTURAL SYSTEMS WITHOUT CONSULTING A LICENSED

Q. 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 DISCIPLINES AND TRADES. ADDITIONAL OPENINGS. BLOCKOUTS. AND SLEEVES MAY BE REQUIRED AND SHALL 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 STRUCTURAL ENGINEER OF RECORD.

R. 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 REINFORCEMENT AS A RESULT OF EMBEDMENT OR ATTACHMENT SHALL BE SUBMITTED TO THE DESIGN TEAM FOR THEIR REVIEW. SEE GENERAL STRUCTURAL NOTES SECTION "DESIGN CRITERIA" FOR LIMITATIONS OF MEP LOADING ON STRUCTURAL SYSTEMS.

S. 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 ACTS AND OMISSIONS OF THE CONTRACTOR, OR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

STRUCTURAL ENGINEER OF RECORD SHALL NOT HAVE AUTHORITY TO STOP THE WORK OR AUTHORIZE CHANGES TO ANY CONTRACT SUM. 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 DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR

CONTINUOUS AND THAT OBSERVATIONS ARE QUALITATIVE, NOT QUANTITATIVE. THIS LIMITED INFORMATION WILL BE USED TO ADVISE THE OWNER/CONTRACTOR/ARCHITECT OF POTENTIAL DEFICIENCIES. T. CLARIFICATION OF POSITION OF STRUCTURALLY FRAMING ELEMENTS USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS, DO NOT SCALE ANY DIMENSIONS. IF NOT INDICATED ON DRAWINGS, ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS.

3. CENTER LINES OF COLUMNS AND FOUNDATIONS SHALL COINCIDE WITH GRID LINE INTERSECTION, UNLESS 4. CENTER LINES OF FOUNDATIONS, GRADE BEAMS, AND WALLS SHALL COINCIDE WITH CENTER LINES OF FOUNDATIONS, UNLESS NOTED OTHERWISE. 5. CENTER LINES OF FRAMING MEMBERS SHALL COINCIDE WITH COLUMN CENTER LINES, UNLESS NOTED

6. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS, OR BEAMS, UNLESS NOTED OTHERWISE. J. $\,\,$ SEE ARCHITECTURAL, CIVIL, MEP, AND VERTICAL TRANSPORTATION CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO:

a. SITING OF BUILDING GRID LINES WITH RESPECT TO CITY BENCHMARKS

 b. SITE PREPARATION c. BACKFILLING MATERIALS AND REQUIREMENTS INCLUDING DRAINAGE ADJACENT TO RETAINING WALLS d. SITE ELEMENTS OUTSIDE OF BUILDING ENVELOPE

e. NEW AND EXISTING SITE UTILITIES B. ARCHITECTURAL a. PLAN DIMENSIONS AND PROJECT DATUM

b. SLAB EDGE DIMENSIONS AND FINISH ELEVATIONS WATERPROOFING AND DAMP PROOFING DETAILS

d. SLAB SLOPES, STEPS AND DEPRESSIONS, RAMPS, TRENCHES e. EMBEDMENTS, INSERTS, BLOCKOUTS, ETC.

f. CONCRETE FINISHES AND TOPPING SLABS . CONCRETE CURBS AND HOUSEKEEPING PADS

INTERIOR NON-STRUCTURAL MASONRY PARTITIONS LIFE SAFETY, FIRE RATING

METAL PAN STAIRS AND SUPPORTS k. OPERABLE PARTITIONS

INSPECTION PLAN FOR SPECIFIC INSPECTION REQUIREMENTS.

a. PIPE AND DUCT SIZES FOR OPENING AND SLEEVE COORDINATION

b. FLOOR DRAINS c. UNDERFLOOR AND PERIMETER DRAINAGE SYSTEMS

d. EQUIPMENT CURBS e. CONDUITS AND EMBEDMENTS IN WALLS AND SLABS

D. VERTICAL TRANSPORTATION a. INSERTS, HANGERS, TRENCHES, PITS, CONDUITS IN WALLS AND SLAB V. THIS BUILDING QUALIFIES AS A THRESHOLD BUILDING PER CHAPTER 553.71 OF THE FLORIDA STATUTES. AS SUCH. SPECIAL INSPECTIONS SHALL BE REQUIRED PER CHAPTER 553.79 OF THE FLORIDA STATUTES BY PERSONS DULY

AUTHORIZED TO PERFORM THEM BY CHAPTER 61G15-35.003 OF THE FLORIDA ADMINISTRATIVE CODE. SEE SPECIAL

ELECTRONIC DATA/REPRODUCTION

A. 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 PROJECTS, ADDITIONS TO THE PROJECT, OR THE COMPLETION OF THE PROJECT BY OTHERS. ELECTRONIC FILES OF THE STRUCTURAL DOCUMENTS REMAIN THE PROPERTY OF JEZERINAC GROUP AND IN NO CASE SHALL THEIR TRANSFER BE CONSIDERED A SALE.

THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR. SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, 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. DIMENSIONS AND ELEMENT SIZES AND LOCATIONS IN THE ELECTRONIC FILES MAY NOT BE PRECISE AND, IN SOME

CASES, HAVE BEEN INTENTIONALLY ALTERED FOR PRESENTATION PURPOSES. DO NOT SCALE DIMENSIONS ELECTRONICALLY OR OTHERWISE. WHEN USED FOR THE PREPARATION OF SHOP DRAWINGS, ALL INFORMATION NOT APPLICABLE TO THE

SUBCONTRACT SHALL BE REMOVED FROM THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: SHEET NUMBERS, SECTION MARKS, TITLE BLOCKS, AND REFERENCES TO THE CONTRACT DOCUMENTS.

REFER TO DIVISION 01 OF SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND REQUIREMENTS. REFER TO THE APPLICABLE SPECIFICATION SECTIONS FOR TECHNICAL CONTENT.

SUBMIT SPECIFIC COMPONENTS SUCH AS COLUMNS, FOUNDATIONS, ETC, IN A SINGLE PACKAGE. SUBMIT SIMILAR FLOORS TOGETHER [TEN] WORKING DAYS 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 SHOP DRAWINGS WILL BE RECEIVED BY THE STRUCTURAL ENGINEER OF RECORD. THE STRUCTURAL ENGINEER OF RECORD 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 SHOP DRAWING SCHEDULE, THE STRUCTURAL ENGINEER OF RECORD WILL RETURN THE SHOP DRAWING ITEMS WITHIN TEN WORKING DAYS AFTER HAVING RECEIVED THE REPRODUCIBLE SHOP DRAWING.

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:

THE SUBMITTAL IS REQUESTED.

THE SUBMITTAL IS BASED ON THE LATEST DESIGN. THE SUBMITTAL IS CLEARLY CLOUDED FOR ALL THE DIFFERENCES FROM THE CONTRACT DOCUMENTS ON THE

4. THE SUBMITTAL IS CLEARLY CLOUDED FOR ALL CHANGES AND ADDITION FROM PREVIOUS SUBMITTAL. 5. THE ARCHITECT'S AND STRUCTURAL ENGINEER OF RECORD'S COMMENTS FROM ANY PREVIOUS SUBMITTALS

8. THE SUBMITTAL SHALL INCLUDE A STAMP INDICATING PROJECT NAME AND LOCATION, SUBMITTAL NUMBER,

ARE ADDRESSED. 6. THE WORK IS COORDINATED AMONGST ALL CONSTRUCTION TRADES. THE SUBMITTAL IS COMPLETE.

AND SPECIFICATION SECTION NUMBER. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW OF SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH

THE STRUCTURAL ENGINEER OF RECORD SHALL RETURN, WITHOUT COMMENT, SUBMITTALS WHICH THE CONTRACTOR HAS NOT STAMPED OR WHICH DO NOT MEET THE ABOVE REQUIREMENTS. FOR THE COMPONENTS DESIGNED BY A DELEGATED ENGINEER: PROVIDE SHOP DRAWINGS, DESIGN

CALCULATIONS, AND A COVER LETTER 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.

DEFERRED SUBMITTALS ARE MANUFACTURER OR CONTRACTOR DESIGNED COMPONENTS PER THE CONTRACT DOCUMENTS. 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/STRUCTURAL ENGINEER OF RECORD, WHO SHALL REVIEW THEM FOR GENERAL 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 NOT BE INSTALLED UNTIL THE DESIGN TEAM HAS REVIEWED AND THE BUILDING OFFICIAL HAS APPROVED. SEE

BELOW FOR THE LIST OF DEFERRED SUBMITTALS. THE FOLLOWING SUBMITTALS ARE REQUIRED TO BE SUBMITTED FOR STRUCTURAL ENGINEER OF RECORD REVIEW AS OUTLINED IN THE SPECIFICATIONS:

,		
031000	CONCRETE FORMWORK	(SS, CALC)
032000	CONCRETE REINFORCEMENT LAYOUT	(S)
033000	CONCRETE PRODUCT DATA	(S)
033000	DIMENSION PLANS AND SLEEVE LAYOUT DRAWINGS	(S)
033000	CONCRETE MIX DESIGNS	(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 & INTSTALLATION DRAWINGS	(DF, SS)
033816	POST TENSIONING TENDON FRICTION LOSS CALC	(DF, CALC)
033816	STRESSING RECORDS	(S)
042200	MASONRY PRODUCT DATA	(S)
042200	MASONRY REINFORCEMENT LAYOUT	(S)
051200	STRUCTURAL STEEL	(S)
051200	STRUCTURAL STEEL CONNECTIONS	(DF, S, CALC)
053100	STEEL DECK	(S)
054000	COLD-FORMED METAL FRAMING USED FOR EXTERIOR	(SS, CALC) (SEE ARCH)
	SHORING AND RESHORING	(DF, SS, CALC)
	HANDRAIL, GUARDRAIL, RAILING	(SS, CALC, REC)
054400	PRE-ENGINEERED CFS TRUSS SHOP DRAWINGS	(DF, S)
054400	PRE-ENGINEERED CFS TRUSS DELEGATED DESIGN SUBMITTAL	(DF, SS)
142000	ELEVATOR	(DF, SS, CALC, REC)
312319	DEWATERING	(GEO, REC)

SHOP DRAWING REQUIRED

DF = DEFERRED SUBMITTAL SS = SIGNED AND SEALED 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

IN THE STATE IN WHICH THE PROJECT IS LOCATED. REC = ITEMS SUBMITTED FOR RECORD ONLY AND WILL NOT HAVE STRUCTURAL ENGINEER OF RECORD SHOP DRAWING STAMP AFFIXED.

GEO = ITEMS SUBMITTED TO CONSTRUCTION GEOTECHNICAL 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

<i>,</i>	1 50 2020	T ESTABAT BOILD IN G GODE, BOILD IN G
:	ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
	ACI 318	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 STEFL 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

AMERICAN IRON AND STEEL INSTITUTE: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AMERICAN WOOD COUNCIL: NATIONAL DESIGN SPECIFICATION FOR WOOD AMERICAN WOOD COUNCIL: SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC AMERICAN SOCIETY FOR TESTING AND MATERIALS

PARTIAL THIRD FLOOR REINFORCING PLAN AREA B

PARTIAL FOURTH FLOOR FRAMING PLAN AREA A

3/	BOTTOM OF	LSV	LONG SIDE VERTICAL
/B	BACK-TO-BACK	LTS	LAP TENSION SPLICE
LDG	BUILDING	LW	LIGHT WEIGHT
LKG	BLOCKING	LWC	LIGHT WEIGHT CONCRETE
		LVVO	LIGHT WEIGHT CONCINETE
RG	BEARING		
OT	BOTTOM	М	MOMENT
TWN	BETWEEN	MAX	MAXIMUM
		MC	MOMENT CONNECTION(S)
	COMPRESSION	MECH	MECHANICAL
, , , ,			
FS	COLD-FORMED STEEL	MEP	MECHANICAL, ELECTRICAL, PLUMBING,
IP .	CAST-IN-PLACE		FIRE PROTECTION
IJ	CONTRACTION JOINT	MFR	MANUFACTURER
L	CENTER LINE	MID	MIDDLE
LR	CLEAR OR CLEARANCE	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
		WIIOO	WIIGOLLE/ WEGGG
OL	COLUMN		
CONC	CONCRETE	NIC	NOT IN CONTRACT
ONN(S)	CONNECTION(S)	NS	NEAR SIDE
ONST	CONSTRUCTION	NTS	NOT TO SCALE
CONT	CONTINUOUS	NWC	NORMAL WEIGHT CONCRETE
		NSFC	NOT SHOWN FOR CLARITY
OORD	COORDINATE	NOFC	NOT SHOWN FOR CLARITT
b	REINFORCING BAR DIAMETER	OC	ON CENTER
)BA	DEFORMED BAR ANCHOR	OD	OUTSIDE DIAMETER
CW	DEMAND CRITICAL WELD	OF	OUTSIDE FACE
CVV		OH	OPPOSITE HAND
	DEGREE(S)		
)	DIAMETER	OPNG(S)	OPENING(S)
IAG	DIAGONAL	OPP	OPPOSITE
IM(S)	DIMENSION(S)	OSL	OUTSTANDING LEG
)L	DEAD LOAD		
		PAF	POWDER ACTUATED FASTENER
)WG(S)	DRAWING(S)		
		PERP	PERPENDICULAR
A	EACH	PJF	PREFORMED JOINT FILLER
F	EACH FACE	PL	PLATE
 J	EXPANSION JOINT	PLF	POUNDS PER LINEAL FOOT
		PCST	PRECAST
iL .	ELEVATION		
LEV	ELEVATOR	PREFAB	PRE-FABRICATED
OS	EDGE-OF-SLAB	PSF	POUNDS PER SQUARE FOOT
:Q	EQUAL	PSI	POUNDS PER SQUARE INCH
		PT	POST-TENSIONED
QUIP	EQUIPMENT		1 OOT TENOIONED
W	EACH WAY		D===D=\\0=
XIST	EXISTING	REF	REFERENCE
XP	EXPANSION	REINF	REINFORCE(D) (ING) OR (MENT)
XT	EXTERIOR	REQ(D)	REQUIRE(D)
.,,,,	EXTERNOR	REV	REVISION
/F	FACE-TO-FACE	RTU	ROOF TOP UNIT
D	FLOOR DRAIN		
F	FINISH FLOOR	SCHED	SCHEDULE(D)
ND	FOUNDATION	SDL	SUPERIMPOSED DEAD LOAD
		SER	STRUCTURAL ENGINEER OF RECORD
S	FAR SIDE	-	
Т	FEET	SF	SQUARE FOOT (FEET)
TG	FOOTING	SIM	SIMILAR
		SLRS	SEISMIC LOAD RESISTING SYSTEM
SA .	GAGE, GAUGE	SOG	SLAB-ON-GROUND
		SP	SPACE
SALV	GALVANIZED		
B	GRADE BEAM	SPEC(S)	SPECIFICATION(S)
GC .	GENERAL CONTRACTOR	SS	STAINLESS STEEL
BDR	GIRDER	STD	STANDARD
SEN .	GENERAL	STIFF	STIFFENER
		STR	STRUCTURE OR STRUCTURAL
SYP	GYPSUM		
		SYM	SYMMETRICAL
ICA	HEADED CONCRETE ANCHORS		
IORIZ	HORIZONTAL	T	TENSION
ISS	HOLLOW STRUCTURAL SECTION	T&B	TOP AND BOTTOM
iss.	HOLLOW STRUCTURAL SECTION		
		T&G	TONGUE & GROOVE
)	INSIDE DIAMETER	T/	TOP OF
=	INSIDE FACE	TEMP	TEMPERATURE OR TEMPORARY
N	INCH	TYP	TYPICAL
NFO	INFORMATION		
-		UNO	UNLESS NOTED OTHERWISE
NT	INTERIOR	UNU	ONLESS NOTED OTHERWISE

ABBREVIATIONS

ABOVE FINISHED FLOOR

ARCHITECT OR ARCHITECTURAL

ALLOWABLE STRESS DESIGN

ADDITIONAL

ALTERNATE

BOTTOM OF

ARCH

ASD

APPROXIMATE

ADJACENT

ABBREVIATIONS

LONG LEG HORIZONTAL

LONG SIDE HORIZONTAL

LONG SIDE VERTICAL

LOAD RESISTANCE FACTORED DESIGN

08/22/25 DESIGN

NO. DATE DESCRIPTION

DEVELOPMENT

LONG LEG VERTICAL

LONGITUDINAL

LENGTH

POUND(S)

LIVE LOAD

LB(S)

LLH

LLV

LONG

LRFD

LSV

KIPS (1,000 POUNDS)

KIP PER LINEAR FOOT

KIP PER SQUARE FOOT

KIPS PER SQUARE INCH

STRUCTURAL THRESHOLD INSPECTIONS A. PER CHAPTER 553.71 OF THE FLORIDA STATUTES, THIS BUILDING QUALIFIES AS A THRESHOLD BUILDING.

B. SPECIAL INSPECTORS OF THRESHOLD BUILDINGS (THRESHOLD INPECTORS) SHALL MEET THE REQUIREMENTS OF RULE 61G15-35.003 OF THE FLORIDA ADMINISTRATIVE CODE. C. PER CHAPTER 553.79 OF THE FLORIDA STATUTES, THE ENFORCING AGENCY SHALL REQUIRE A THRESHOLD INSPECTOR TO PERFORM STRUCTURAL INSPECTIONS ON A THRESHOLD BUILDING PERSUANT TO A STRUCTURAL INSPECTION PLAN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD.

SHEAR

WITH

WITHOUT

WORK POINT

WELDED WIRE REINFORCEMENT

VERTICAL

VERIFY IN FIELD

VERT

THRESHOLD INSPECTOR SHALL BE A LICENSED PROFESSIONAL ENGINEER IN 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.

E. THE STRUCTURAL INSPECTION PLAN MUST BE SUBMITTED TO AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A BUILDING PERMIT FOR THE CONSTRUCTION OF A THRESHOLD BUILDING. F. THE FEE OWNER OF A THRESHOLD BUILDING SHALL SELECT AND PAY ALL COSTS OF EMPLOYING A THRESHOLD

INSPECTOR, BUT THE THRESHOLD INSPECTOR SHALL BE RESPONSIBLE TO THE ENFORCEMENT AGENCY. G. 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. DELEGATED ENGINEER (NOT SPECIAL INSPECTOR) IS RESPONSIBLE FOR THE SUPERVISION, INSPECTION AND

CERTIFICATION OF SUCH TEMPORARY SYSTEMS. H. SEE STRUCTURAL INSPECTION PLAN FOR FURTHER INFORMATION.

ROOF FRAMING DETAILS

<u> </u>	STRUCTURAL DRAWING LIST	1	STRUCTURAL DRAWING LIST
HEET NUMBER	SHEET NAME	SHEET NUMBER	SHEET NAME
S-001	GENERAL NOTES	S-144A-PT	PARTIAL FOURTH FLOOR PT PLAN AREA A
S-002A	LOADING CRITERIA	S-144A-R	PARTIAL FOURTH FLOOR REINFORCING PLAN AREA
S-002B	LOAD PLANS	S-144B	PARTIAL ROOF FRAMING PLAN AREA B
S-003	CONCRETE GENERAL NOTES & SCHEDULES	S-144B-PT	PARTIAL ROOF PT PLAN AREA B
S-004	CMU GENERAL NOTES & SCHEDULES	S-144B-R	PARTIAL ROOF REINFORCING PLAN AREA B
S-005	STEEL GENERAL NOTES & SCHEDULES	S-145A	PARTIAL ROOF FRAMING PLAN AREA A
S-121	OVERALL FOUNDATION PLAN	S-145A-PT	PARTIAL ROOF PT PLAN AREA A
S-122	OVERALL SECOND FLOOR PLAN	S-145A-R	PARTIAL ROOF REINFORCING PLAN AREA A
S-123	OVERALL THIRD FLOOR PLAN	S-300	TYPICAL FOUNDATION DETAILS
S-124	OVERALL FOURTH FLOOR PLAN	S-310	TYPICAL SLAB-ON-GROUND DETAILS
S-125	OVERALL ROOF PLAN	S-320	TYPICAL CONCRETE SHEAR WALL DETAILS
S-141A	PARTIAL FOUNDATION PLAN AREA A	S-321	CONCRETE SHEAR WALL ELEVATIONS - AREA A
S-141B	PARTIAL FOUNDATION PLAN AREA B	S-322	CONCRETE SHEAR WALL ELEVATIONS - AREA A
S-142A	PARTIAL SECOND FLOOR FRAMING PLAN AREA A	S-323	CONCRETE SHEAR WALL ELEVATIONS - AREA B
S-142A-PT	PARTIAL SECOND FLOOR PT PLAN AREA A	S-324	CONCRETE SHEAR WALL ELEVATIONS - AREA B
S-142A-R	PARTIAL SECOND FLOOR REINFORCING PLAN AREA A	S-330	TYPICAL PT TENDON DETAILS
S-142B	PARTIAL SECOND FLOOR FRAMING PLAN AREA B	S-331	TYPICAL PT REINFORCEMENT DETAILS
S-142B-PT	PARTIAL SECOND FLOOR PT PLAN AREA B	S-332	TYPICAL PT SHEAR STUD RAILS DETAILS
S-142B-R	PARTIAL SECOND FLOOR REINFORCING PLAN AREA B	S-340	TYPICAL CONCRETE COLUMN DETAILS
S-143A	PARTIAL THIRD FLOOR FRAMING PLAN AREA A	S-350	TYPICAL CONCRETE BEAM DETAILS
S-143A-PT	PARTIAL THIRD FLOOR PT PLAN AREA A	S-360	CONCRETE STAIR DETAILS
S-143A-R	PARTIAL THIRD FLOOR REINFORCING PLAN AREA A	S-370	TYPICAL CONCRETE FRAMING DETAILS
S-143B	PARTIAL THIRD FLOOR FRAMING PLAN AREA B	S-400	TYPICAL MASONRY DETAILS
S-143B-PT	PARTIAL THIRD FLOOR PT PLAN AREA B	S-500	STEEL FRAMING DETAILS



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Date:

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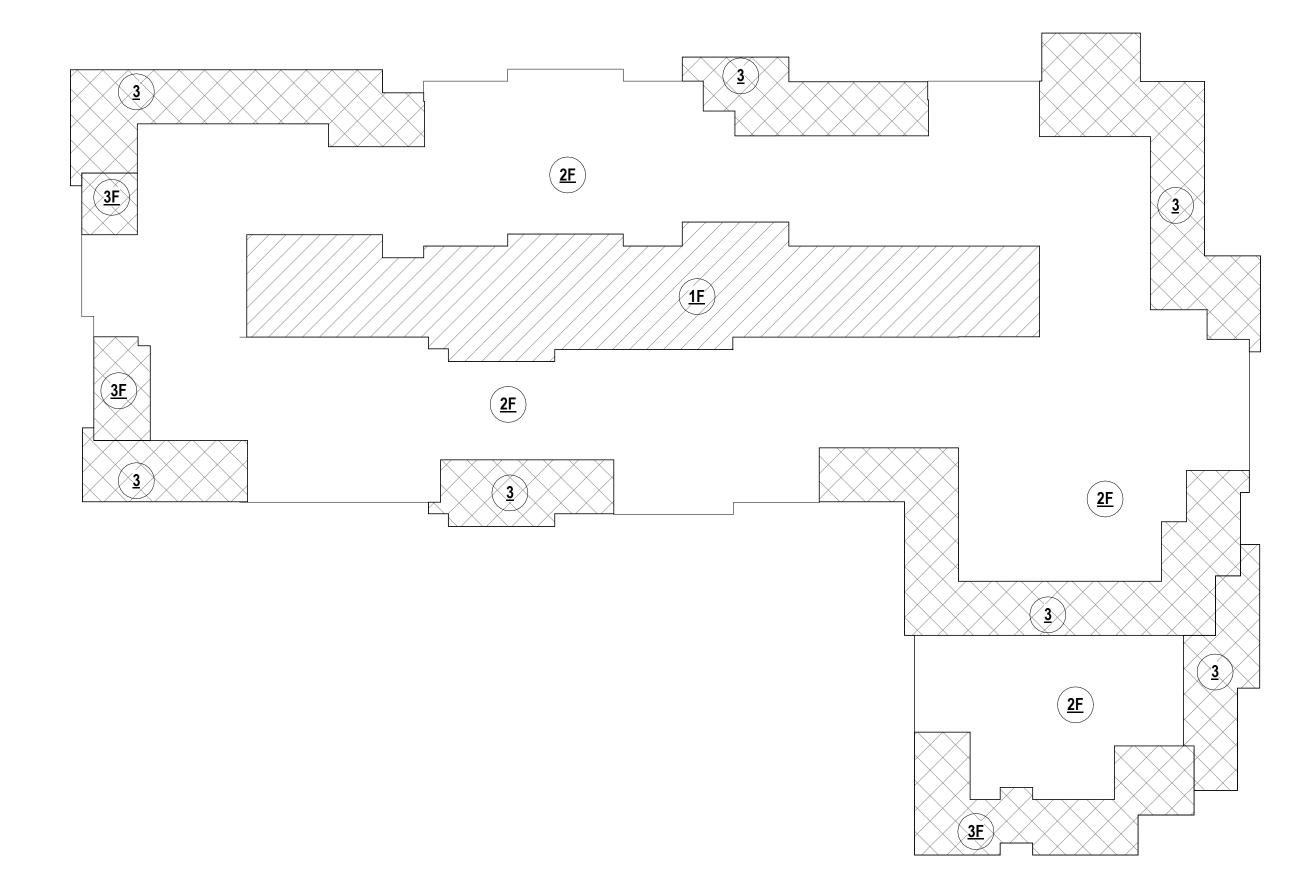
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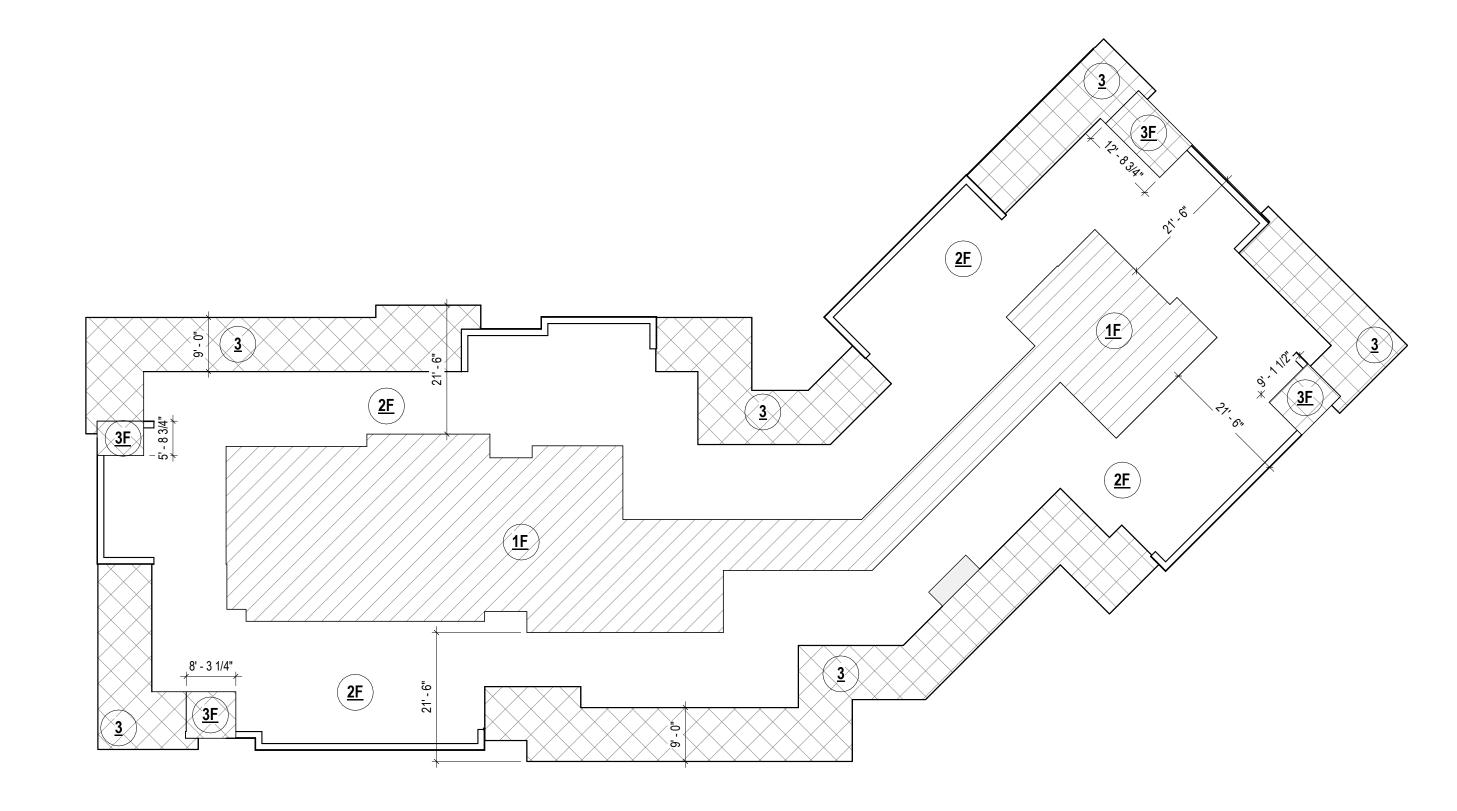
				C&C E	XTERNA	L PRESS	URE LOA	ADS (PSF	=)		
EWA						ZONE					
(ft2)	3	1F	2F	3F	4	5	P4	P5	ROH 1	ROH 2	ROH 3
10	57	32	32	32	76	31	173	199	147	147	147
	-140	-126	-167	-227	-82	-218	-		-166	-205	-205
20	49	30	30	30	73	29	151	186	132	132	132
	-121	-118	-156	-206	-79	-197	-		-151	-182	-182
50	39	28	28	28	68	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	-156	-71	-149	-		-116	-129	-129
200	31	26	26	26	61	24	116	146	91	91	91
	-76	-90	-120	-135	-68	-129	-		-113	-126	-126
500	31	26	26	26	57	24	105	132	82	82	82
	-76	-79	-106	-106	-63	-102			-108	-121	-121

NOTES:

- 1. 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.
- 2. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.
- 3. a = 10ft. SEE ROOF PLAN MAP BELOW FOR LOCATION OF a-ZONES. WALL a-ZONE LOCATIONS TO MATCH ROOF a-ZONES.
- 4. 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. 5. EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
- 6. 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.
- P4/5 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. 7. 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. 8. 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.
- 9. ALL DOORS TO BE RATED TO RESIST DESIGN WIND PRESSURES SPECIFIED.



AREA A COMPONENTS AND CLADDING DIAGRAM



AREA B COMPONENTS AND CLADDING DIAGRAM



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NO. DATE DESCRIPTION

DEVELOPMENT

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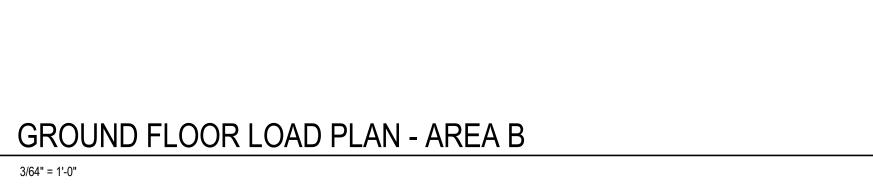
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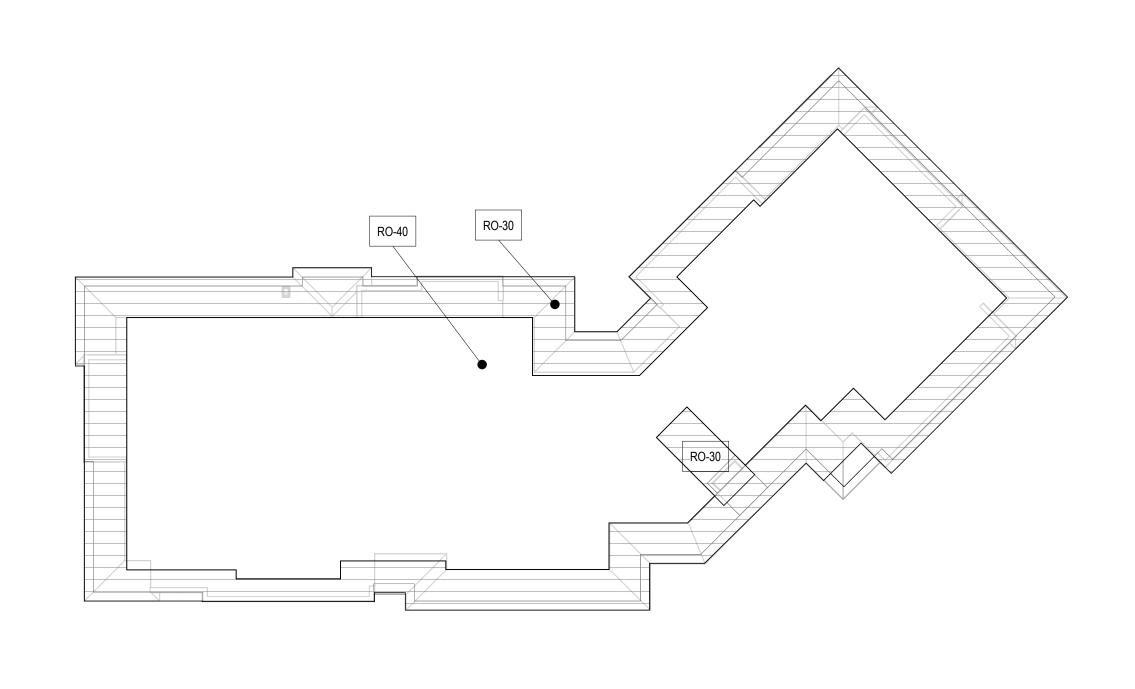
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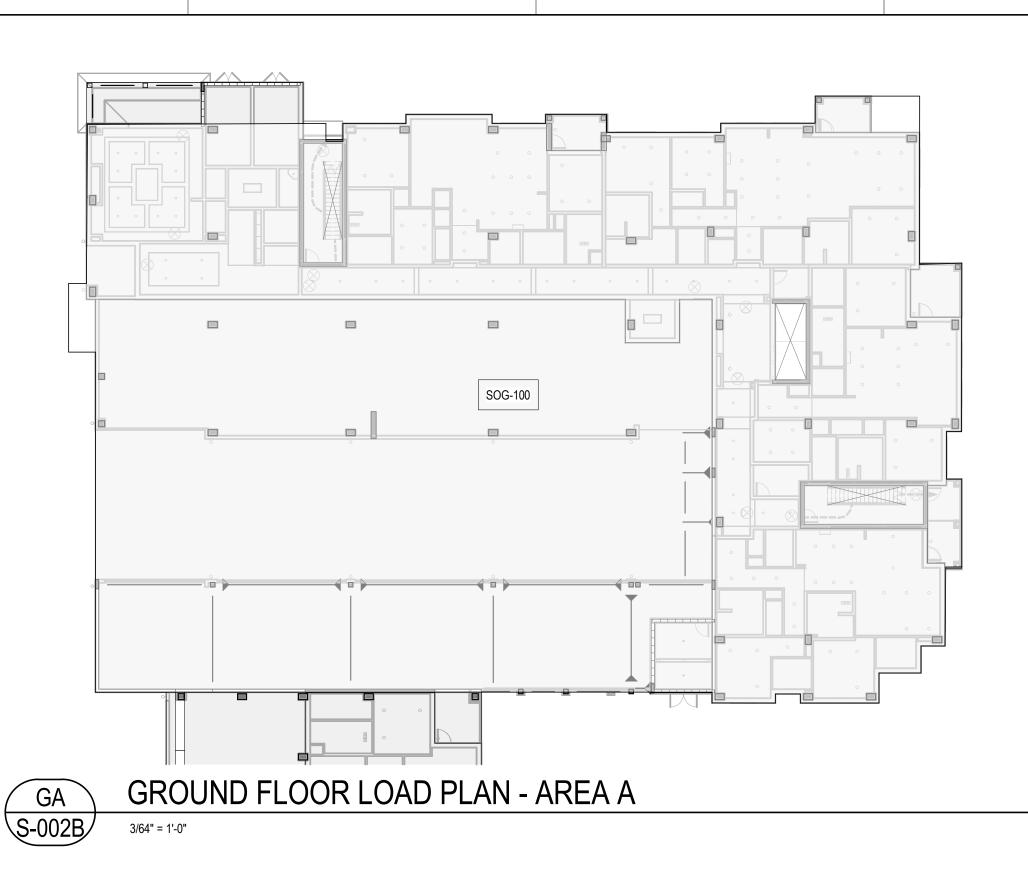


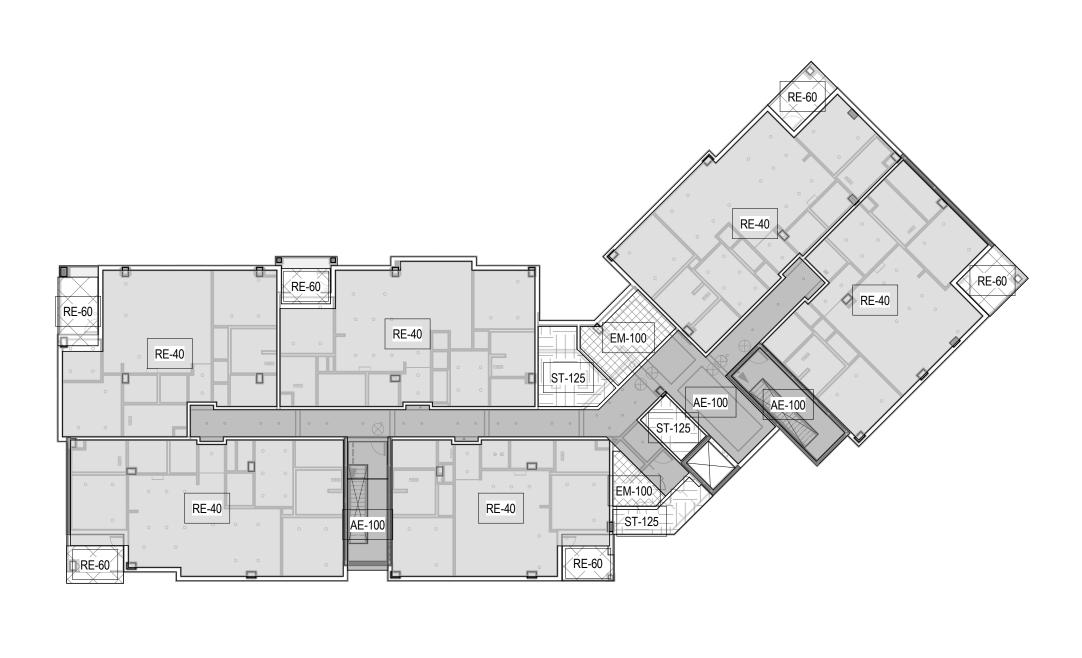
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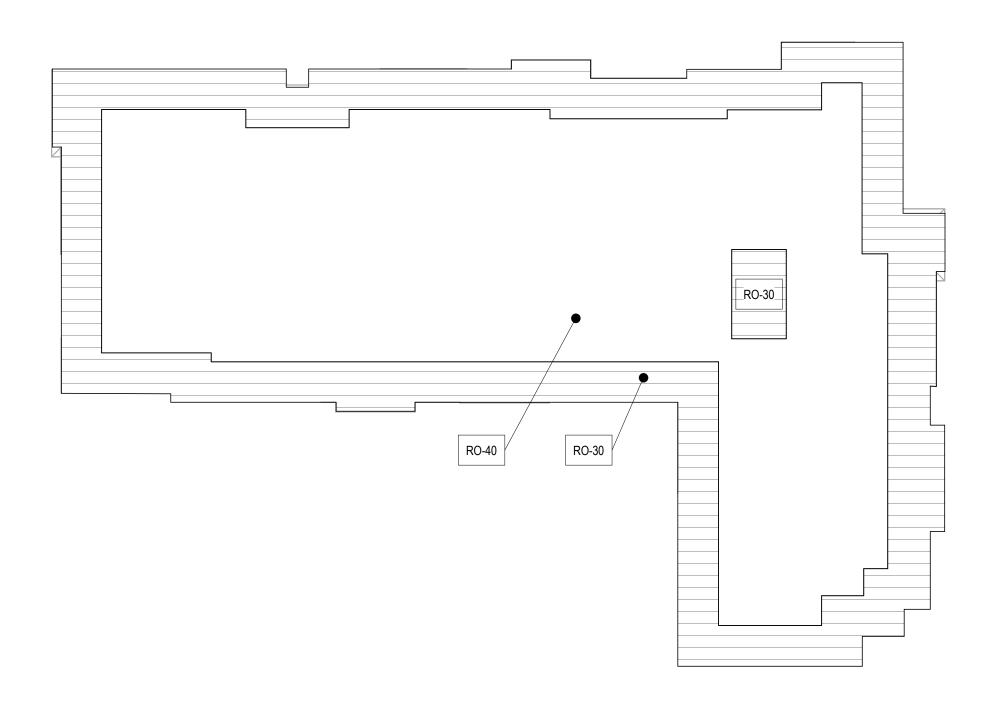


ROOF LEVEL LOAD PLAN - AREA B

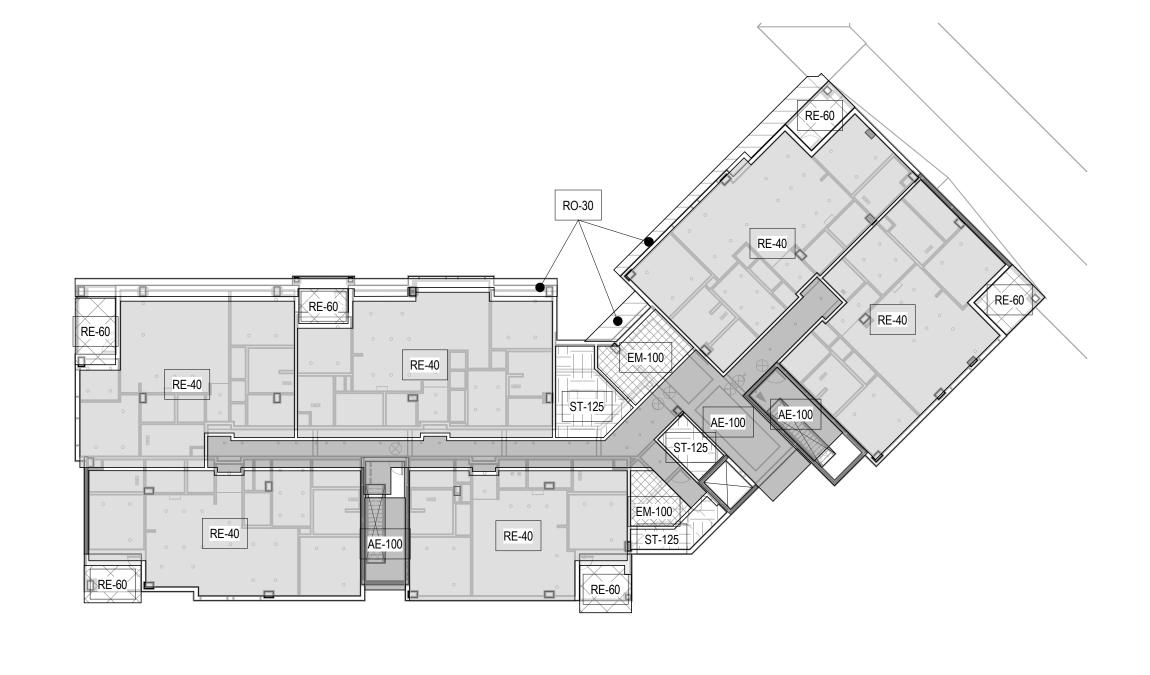












2B	SECOND FLOOR LOAD PLAN - AREA B
S-002B	3/64" = 1'-0"



		II .
(3A)	THIRD AND FOUR	TH FLOOR PLAN - AREA A
S-002B	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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LOAD PLANS
SUITE 3A

S-002B

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S-002B

FOR CONCRETE MIXTURE REQUIREMENTS SEE SCHEDULE ON THIS SHEET. . THE USE OF RECYCLED CONCRETE IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL . NORMAL WEIGHT CONCRETE SHALL BE USED FOR ALL CONCRETE MEMBERS UNLESS NOTED OTHERWISE. NORMAL

WEIGHT CONCRETE SHALL HAVE A CURED DENSITY OF 145 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 5. 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

PART OF THE SLAB SYSTEM UNLESS NOTED OTHERWISE.

WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. FOR MILD REINFORCED MEMBERS. CONSTRUCTION JOINTS SHALL OCCUR WITHIN THE MIDDLE THIRD OF A MEMBER'S SPAN. ALL APPROVED CONSTRUCTION JOINTS SHALL BE INDICATED, DIMENSIONED, AND DETAILED ON THE CONCRETE REINFORCEMENT G. GIRDERS, BEAMS, HAUNCHES, DROP PANELS, DROP CAPS, AND CAPITALS SHALL BE POURED MONOLITHICALLY AS

H. PROVIDE A ¾ 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 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. EMBEDDED CONDUITS, PIPES, AND SLEEVES 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 MEMBERS THEY PENETRATE THE MINIMUM CLEAR COVER FOR CONDUITS, PIPES, AND SLEEVES SHALL BE 1 ½" FOR CONCRETE EXPOSED

TO EARTH OR WEATHER AND 3/4" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER. ALUMINUM 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 THEY WILL BE SUBJECTED TO. THE WORK SHALL BE

COORDINATED AMONGST ALL CONSTRUCTION TRADES. 5. THE CONTENTS OF EMBEDDED PIPES SHALL NOT FLOW UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 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 SUCH THAT 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

. ALL REINFORCEMENT STEEL SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. . WHERE WELDS ARE INDICATED FOR REINFORCEMENT STEEL ON THE DRAWINGS, REINFORCEMENT STEEL SHALL BE A706, GRADE 60 UNLESS OTHERWISE NOTED.

. 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 DETAILED IN ACCORDANCE WITH ACI 318 STANDARD HOOK GEOMETRY FOR DEFORMED BARS IN TENSION AND FOR STIRRUPS, TIES, AND HOOPS.

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). 6. 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 H. ALL LAP SPLICES SHALL BE CLASS B TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED

OTHERWISE. SEE LAP SPLICE SCHEDULE ON THIS SHEET FOR LAP SPLICE LENGTHS. UNLESS NOTED AS CONTINUOUS, REINFORCEMENT SHALL ONLY BE SPLICED AT LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS. SPLICES AT NON-SPECIFIED LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. I. A MINIMUM LAP SPLICE OF 8" SHALL BE PROVIDED AT ALL END AND SIDE LAP CONDITIONS FOR WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE.

MECHANICAL SPLICES ARE REQUIRED WHERE SPECIFIED ON THE CONTRACT DOCUMENTS. MECHANICAL SPLICES ARE ALSO REQUIRED TO SPLICE #14 AND #18 BARS. MECHANICAL SPLICES MAY ALSO BE USED AT THE CONTRACTOR'S OPTION. PROVIDED THE MECHANICAL SPLICES HAVE A CURRENT ICC-ES REPORT DEMONSTRATING THEY CAN DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION. MECHANICAL SPLICES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD

K. THE USE OF WELDED SPLICES IS PROHIBITED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SUBMIT THE LOCATIONS OF WELDED SPLICES TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. IF APPROVED.

WELDED SPLICES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1. 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

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: [__

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 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. B. 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

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. CENTER 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

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'-0" BEYOND THE BUILDING

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

RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT. 6. PLACEMENT OF FILL AND COMPACTION 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

THICKNESS. COMPACT PRIOR TO THE PLACEMENT OF THE NEXT LAYER. COMPACTION SHALL MEET ALL

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

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]

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

3. DO NOT BACKFILL AGAINST CANTILEVERED RETAINING WALLS UNTIL CONCRETE COMPRESSIVE STRENGTH, $f_{
m c}$ REACHES ITS 28 DAY DESIGN STRENGTH. DO NOT BACKFILL PRIOR TO WATERPROOFING AND INSPECTION.

DEEP FOUNDATIONS ARE DESIGNED BASED ON THE FOLLOWING DESIGN CRITERIA PER THE GEOTECHNICAL INVESTIGATION REPORT: a. ALLOWABLE END BEARING PRESSURE:

THE STATE IN WHICH THE PROJECT IS LOCATED.

 AT A DEPTH GREATER THAN ['- "] BELOW FINISHED SLAB ELEVATION c. ALLOWABLE TENSION CAPACITY (<u>['- "]</u> BELOW FINISHED FLOOR): <u>[PSF]</u> 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

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. 4. 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

CONCRETE MIXTURE REQUIREMENTS MAXIMUM **EXPOSURE** MODULUS OF APPLICATION MAXIMUM CONCRETE CLASS ELASTICITY (KSI) AGGREGATE WEIGHT (PCF) **FOUNDATIONS** F0, S0, W1, C1 4000 SEE NOTE 2 SEE NOTE 3 SLAB-ON-GROUND F0, S0, W1, C1 4000 28 DAYS SEE NOTE 2 SEE NOTE 3 (FXTFRIOR) SLAB-ON-GROUND F0, S0, W0, C0 3000 28 DAYS 3122 SEE NOTE 2 SEE NOTE 3 (INTERIOR) SHEAR WALLS AND COLUMNS | F0, S0, W2, C1 | 5000 28 DAYS 0.50 SEE NOTE 3 3/4" 150 4031 CMU FILLED CELLS GROUT MIX SHALL BE USED FOR CMU FILLED CELLS - SEE CONCRETE MASONRY UNIT GENERAL NOTES, DETAILS, AND SPECIFICATIONS POST-TENSIONED ELEVATED 28 DAYS 4031 @ 28-Days SEE NOTE 2 SEE NOTE 3 F0, S0, W2, C1 3000 @ 48-Hours FRAMING (EXTERIOR) POST-TENSIONED ELEVATED F0, S0, W0, C0 28 DAYS | 4031 @ 28-Days | SEE NOTE 2 | SEE NOTE 3 FRAMING (INTERIOR) 3000 @ 48-Hours ELEVATED SLABS AND BEAMS SEE NOTE 2 | SEE NOTE 3 4031 (NON-PRESTRESSED)

EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY, AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE. 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. THERE IS NO MANDATORY TARGET AIR CONTENT FOR THIS APPLICATION. THE CONTRACTOR MAY CHOOSE TO ADD AIR ENTRAINMENT TO IMPROVE THE WORKABILITY AND

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. #67 GRADING SHALL BE SUED FOR CONCRETE WITH 3/4 INCH MAXIMUM; #57 GRADING SHALL BE USED FOR CONCRETE

CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) CLEAR COVER SCHEDULE						
APPLICATION	BOTTOM	TOP	SIDES			
FOUNDATIONS	3"	2"	3"			
SLAB-ON-GROUND	SEE DETAILS	SEE DETAILS	3"			
RETAINING WALLS	N/A	N/A	2"			
SHEAR WALLS	N/A	N/A	1 ½"			
COLUMNS	N/A	N/A	2" TO VERTICAL BARS			
INTERIOR ELEVATED SLABS	3/"	3/4"	1 ½"			
EXTERIOR ELEVATED SLABS - POST TENSIONED	1"	1"	1 ½"			
EXTERIOR ELEVATED SLABS - CONVENTIONAL	1"	1 ½"	1 ½"			
STRUCTURED SLAB-ON-GROUND	3"	1 ½"	2"			
DEAMO	1 1/"	4.1/"	1 1/"			

DEVELOPMENT LENGTH SCHEDULE (INCHES)

BAR SIZE db + 1" OR 2db]

1.375

1.500 1.625

1.750

2.375

2.625

2.875

MIN BAR SPACING Ld, f'c (psi) Ldh, f'c (psi)

28 | 24 | 22 | 14 |

33 | 29 | 26 | 17 |

48 | 42 | 38 | 20

55 | 48 | 43 | 22 |

70 61 54 28

78 67 60 31

62 | 54 | 48 | 25 | 2

(INCHES) [MAX OF S S S S

FINISHING PROPERTIES OF THE MIX. AIR CONTENT SHALL BE AS REQUIRED FOR THE SPECIFIED CONCRETE MIX.

			TENSIO	N (LTS)		
	MIN BAR	f'c = 4,	000 PSI	f'c = 5,000 PSI		
BAR SIZE	SPACING (INCHES)	TOP BARS	OTHER	TOP BARS	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	

A. SEE THE POST-INSTALLED ANCHORS SPECIFIED PRODUCTS BY APPLICATION SCHEDULE ON THIS SHEET FOR PRE-APPROVED PRODUCTS 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.

WHEN A SPECIFIC PRODUCT IS LISTED WITHIN THE CONSTRUCTION DOCUMENTS, SUBSTITUTIONS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD, INCLUDING SUBSTITUTION FOR ONE OF THE PRE-APPROVED ANCHORS LISTED.

B. SEE THE POST-INSTALLED ANCHORS INSTALLATION REQUIREMENTS ON THIS SHEET, THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, AND THE ASSOCIATED PRODUCT APPROVALS FOR EACH PRODUCT TO

ANCHOR MATERIALS/COATINGS SHALL BE STAINLESS STEEL (TYPE 316) AT ALL EXTERIOR LOCATIONS OR UNCONDITIONED SPACES, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, PROVIDE SEPARATING

RUBBER/NEOPRENE WASHERS AT DISSIMILAR MATERIALS WHEN ANCHOR MATERIAL DIFFERS FROM FIXTURE

WITHIN THE SPECIAL INSPECTIONS PLAN WITHIN THE CONSTRUCTION DOCUMENTS. CONTINUOUS INSPECTION SHALL BE PROVIDED FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY, UPWARDLY INCLINED, OR OVERHEAD.

1. EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF TESTED IN TENSION BY AN INDEPENDENT TESTING

2. PROOF LOADING SHALL BE PERFORMED TO ADHESIVE ANCHORS AS FOLLOWS: a. 10% OF ADHESIVE ANCHORS FOR EACH TYPE AND SIZE OF ADHESIVE ANCHOR.

CONSIDERED ACCEPTABLE.

4. THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE STRUCTURAL ENGINEER OF RECORD.

AFTER THE 28-DAY CONCRETE CURING PERIOD AND AFTER THE MINIMUM EPOXY CURING PERIOD SPECIFIED BY THE MANUFACTURER. PROOF LOAD SHALL BE 1.5 x THE ASD CAPACITY OF THE ANCHOR, AND LOAD SHALL

BE MAINTAINED ON THE ANCHOR FOR A MINIMUM OF 10 SECONDS. ANCHORS SHALL HAVE NO VISIBLE INDICATED OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOAD APPLICATION. CONCRETE CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE

LIMITED DEFINED IN THESE NOTES. AN ADDITIONAL 25% OF THE ANCHORS OF THE SAME DIAMETER AND TYPE

AS THE FAILED ANCHOR SHALL BE PROOF TESTED. 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 [S.]. 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

NO CONCRETE SHALL BE PLACED UNTIL THE POST-TENSIONING TENDONS AND REINFORCEMENT LOCATIONS HAVE BEEN INSPECTED AND APPROVED BY THE TESTING AGENCY.

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 SHORED UNTIL THE SLAB IS STRESSED D. POST-TENSIONED FORCES SPECIFIED ON THE CONSTRUCTION DRAWINGS ARE EFFECTIVE FORCES AFTER ALL LOSSES ARE ACCOUNTED FOR.

PROVIDE SUFFICIENT CABLE TO DEVELOP FINAL EFFECTIVE FORCES AS INDICATED ON THE STRUCTURAL E. TENDONS SHALL BE STRESSED TO A MAXIMUM OF 80% OF Fpu WHILE ANCHORAGE STRESSES SHALL BE A

MAXIMUM OF 70% OF Fpu. 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 FORCES SHOWN ARE IN KIPS OR KIPS/FT.

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.

ALL POST-TENSIONED SLAB THICKNESSES ARE AS MARKED ON THE CONSTRUCTION DRAWINGS.

STRIPS REQUIRED BY THE CONTRACTOR MAY REQUIRE ADDITIONAL REINFORCEMENT AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL BEFORE STARTING CONSTRUCTION.

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

BOTTOM BARS SHALL BE CENTERED IN SPAN, UNLESS NOTED OTHERWISE. PLACE TENDONS IN SMOOTH PARABOLIC DRAPES BETWEEN HIGH AND LOW POINTS SHOWN, UNLESS NOTED

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 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

M. CONTRACTOR SHALL CONDUCT CONTINUOUS INSPECTION AND RECORDING OF JACKING FORCES AND REVIEW AND ACCEPTANCE PRIOR TO THE REMOVAL OF EXCESS TENDON END MATERIAL

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

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: DETAILED DESIGN OF TENDON END ANCHORAGES.

AND FRICTION. 3. POST-TENSIONED SHOP DRAWINGS.

THE GEOTECHNICAL INVESTIGATION REPORT **OR** AN ASSUMED VALUE OF 50 PCI). SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION

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.

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. COLUMN ISOLATION JOINTS SHALL BE CONSTRUCTED PER THE TYPICAL COLUMN ISOLATION JOINT DETAIL IN

OF RECORD FOR APPROVAL. SLAB CONSTRUCTION JOINTS SHALL BE DOWELED. WHERE SPECIFIED ON PLAN, WELDED WIRE REINFORCEMENT SHALL BE INSTALLED. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED SUCH THAT IT IS LOCATED AT A DEPTH OF 1 1/2" FROM THE TOP

STRUCTURAL DOCUMENTS. THE MINIMUM SLAB THICKNESS SPECIFIED IN THE CONTRACT DOCUMENTS MUST BE

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

BE UTILIZED ON THIS PROJECT.

D. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. APPLICABLE EVALUATION REPORTS, AND AS INDICATED

ADHESIVE ANCHORS SHALL BE PROOF TESTED AS FOLLOWS:

ADDITIONAL SPECIFIC ANCHORS AS NOTED WITHIN THE CONSTRUCTION DOCUMENTS. PROOF LOADING SHALL BE PERFORMED ON PRODUCTION ANCHORS. SACRIFICIAL ANCHORS SHALL BE NOT

TENSION TESTING SHALL BE PERFORMED IN ACCORDINANCE WITH ASTM E488 AND ACI 355.4. PERFORMED

CONSIDERED A FAILURE. IF MORE THAN 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHING THE

THE POST-TENSIONING MANUFACTURER, WHICHEVER IS GREATER.

POST-TENSIONING SUPPLIER SHALL DETERMINE TENDON LOSSES IN ACCORDANCE WITH ACI 318 AND SHALL

G. $\,\,$ SLAB TENDONS FOR FORCES SHOWN IN KIPS ARE TO BE PLACED UNIFORMLY IN A BAND WIDTH ON EACH SIDE OF A

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.

AT DEAD ENDS AND STRESSING ENDS, TENDON CENTER OF GRAVITY SHALL BE AT CENTROID OF THE MEMBER, 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

COORDINATION OF THE DETAILING AND PLACEMENT OF TENDONS AND MILD REINFORCEMENT STEEL BETWEEN

FOR AT AREAS WITH SIMILAR CONDITIONS.

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

8. SHOULD CONFLICT ARISE BETWEEN TENDONS, MILD REINFORCEMENT STEEL, OR OTHER CONDUITS, TENDON LOCATIONS SHALL TAKE PRECEDENCE.

ELONGATIONS WHICH ARE TO BE IMMEDIATELY SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR 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.

ACCORDANCE WITH THE APPROVED DOCUMENTS.

THE CALCULATION OF STRESS LOSSES DUE TO CREEP, SHRINKAGE, TENDON RELAXATION, ANCHORAGE SLIP,

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 (_____ PCI PER

F. CONTRACTION JOINTS SHALL BE CUT INTO THE SURFACE OF THE SLAB, IN EACH DIRECTION. SEE THE TYPICAL SAW

ORDER TO PROVIDE ADEQUATE SPACE FOR COLUMN INSTALLATION. H. CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER

REFERENCE ARCHITECTURAL AND MEP DOCUMENTS FOR SLAB FINISHES AND SLOPES NOT REFERENCED ON THE

PRODUCTS BY APPLICATION CONCRETE MASONRY <u>CONCRETE</u> ANCHOR TYPE HILTI KWIK BOLT TZ HILTI KWIK BOLT 3 EXPANSION ANCHORS/ SIMPSON STRONG-BOLT 2 SIMPSON STRONG-BOLT 2 EXPANSION BOLTS DEWALT POWER-STUD+ SD1 DEWALT POWER-STUD+ SD2 HILTI HUS-EZ HILTI HUS-EZ SIMPSON TITEN HD SIMPSON TITEN HD SCREW ANCHORS DEWALT SCREW-BOLT+ DEWALT SCREW-BOLT-ADHESIVE ANCHORS HILTI HIT-HY200 HILTI HIT-HY270 (EPOXY ANCHORS) WITH SIMPSON SET-3G SIMPSON SET-3G A36 ALL-THREAD ROD DEWALT PURE110+ OR PURE220+ DEWALT AC100+ GOLD

POST-INSTALLED ANCHORS SPECIFIED

ADHESIVE ANCHORS

(EPOXY ANCHORS) WITH

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 MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. 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 CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY

HILTI HIT-HY200

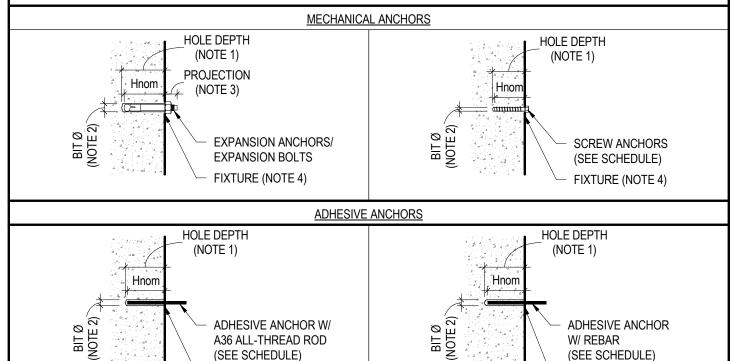
SIMPSON SET-3G

DEWALT PURE110+ OR PURE220+

THE REFERENCED BUILDING CODE. ALTERNATE PRODUCTS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL SHALL HAVE A VALID RESEARCH REPORT, ALSO KNOWN AS AN EVALUATION REPORT, INDICATING COMPLIANCE WITH APPROPRIATE ACCEPTANCE CRITERIA REQUIRED BY THE REFERENCED BUILDING CODE FOR THE INTENDED LOAD TYPE AND USE (E.G., WIND, SEISMIC, SUSTAINED TENSION, ETC.). RESEARCH REPORTS SHALL BE ISSUED BY A SOURCE APPROVED BY THE AUTHORITY HAVING JURISDICTION

SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND/OR EVALUATION REPORT, UNLESS MORE SPECIFIC REQUIREMENTS ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

POST-INSTALLED ANCHORS **INSTALLATION REQUIREMENTS**



POST-INSTALLED ANCHORS ARE SPECIFIED BY THE NOMINAL EMBEDMENT (Hnom) INDICATED IN MANUFACTURER'S LITERATURE INCREASE THE HOLE DEPTH AS REQUIRED BY THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS FOR THE SPECIFIED ANCHOR SIZE AND EMBEDMENT.

COORDINATE BIT DIAMETER WITH MANUFACTURER REQUIREMENTS TOTAL ANCHOR LENGTH SHALL BE COORDINATED TO PROVIDE ADEQUATE PROJECTION LENGTH FOR FIXTURE THICKNESS, WASHER(S) AS REQUIRED (SEE NOTE 5), AND FULL ENGAGEMENT OF NUT.

FIXTURE (NOTE 4)

FIXTURE CONSIDERATIONS SHALL BE COORDINATED WITH MANUFACTURER REQUIREMENTS: A. CONSIDERATION FOR "THROUGH-SET" VS "PRESET" INSTALLATION IN DETERMINING FIXTURE HOLE DIAMETER AND WASHER REQUIREMENTS (SEE NOTE 5). B. INCREASE NOMINAL EFFECTIVE EMBEDMENT IF REQUIRED WHEN FIXTURE THICKNESS IS LESS THAN MINIMUM FOR

EXPANSION ANCHORS. PROVIDE DOUBLE WASHERS WHEN "THROUGH-SET" INSTALLATION IS USED FOR ADHESIVE ANCHORS AS REQUIRED BY MANUFACTURER REQUIREMENTS. LOCATE, BY NONDESTRUCTIVE MEANS, ALL EXISTING REINFORCEMENT AND EMBEDMENTS (REBAR, POST-TENSIONED TENDONS, CONDUIT, ETC) AND TAKE NECESSARY MEASURES TO AVOID CONFLICT AND DAMAGE OF EXISTING ELEMENTS DURING DRILLING OPERATIONS AND THE INSTALLATION OF ANCHORS. IF EXISTING REINFORCEMENT AND/OR EMBEDMENTS PROHIBIT THE INSTALLATION OF ANCHORS AS INDICATED ON THE STRUCTURAL DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY AND DISCONTINUE DRILLING OPERATIONS.

DEFECTIVE OR ABANDONED HOLES WITHIN A DISTANCE OF THE GREATER OF (4 x ANCHOR DIAMETER) OR 3". WHICHEVER IS GREATER, SHALL BE FILLED WITH AN INJECTABLE ADHESIVE PRODUCT. COORDINATE OTHER REQUIREMENTS WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) TEMPERATURE, HOLE DRILLING/CLEANING/PREPARATION, AND INSTALLATION TORQUE. INSTALLATION INTO CORE DRILLED HOLES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY ALLOWED BY MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS WITH CERTIFICATION THAT EQUAL CAPACITY IS ACHIEVED TO INSTALLATION IN HOLES DRILLED USING CARBIDE-

TIPPED BITS. HOLES SHALL NOT BE OVERSIZED. ADDITIONAL NOTES FOR ANCHORS IN MASONRY WALLS: A. ANCHORS SHALL NOT BE INSTALLED WITHIN 1-3/8" OF HEAD JOINTS. THE GENERAL CONTRACTOR SHALL REVIEW FIXTURE HOLE LOCATIONS RELATIVE TO HEAD JOINT LAYOUT ACCORDINGLY AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF GEOMETRY RESULTS IN A CONDITION WHERE ANCHORS WILL BE LOCATED WITHIN THIS DISTANCE FROM HEAD JOINTS

FOR A MODIFIED ANCHOR LAYOUT. B. ANCHORS SHALL NOT BE INSTALLED IN HOLLOW CORE / UNGROUTED MASONRY. THE GENERAL CONTRACTOR SHALL COORDINATE FILLED CELL LOCATIONS AND PROVIDE POUR STOPS TO PROVIDE SOLID GROUTED MASONRY AT ALL AREAS TO RECEIVE POST-INSTALLED ANCHORS WITH A MINIMUM EDGE DISTANCE OF 4" ON ALL SIDES IF INSTALLATION INTO HOLLOW CORE / UNGROUTED MASONRY IS REQUIRED. SCREEN TUBES INTO HOLLOW CORE / UNGROUTED MASONRY SHALI ONLY BE PERMISSIBLE WHEN SPECIFICALLY INDICATED AS SUCH WITHIN THE DOCUMENTS, OR WITH WRITTEN APPROVAL TO DO SO BY THE STRUCTURAL ENGINEER OF RECORD.

SOLID PORTIONS OF WALL WITH NO JOINT WITHIN THE REQUIRED EDGE DISTANCE FOR ANCHOR INSTALLATION. ADDITIONAL NOTES FOR ADHESIVE ANCHORS: A. ADHESIVE ANCHOR DESIGN TEMPERATURE RANGE IS 110°F (LONG TERM) AND 130°F (SHORT TERM). B. IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE

INSTALLATION OF ANCHORS INTO EXISTING MASONRY WALLS SHALL CONFORM WITH THESE REQUIREMENTS, INCLUDING

KNOCKING OUT OF FACE SHELLS AS REQUIRED TO GROUT SOLID AND/OR KNOCKING OUT LOCAL HEAD JOINTS TO CREATE

a. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR b. ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS. c. ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT. d. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S

FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:

STRUCTURAL ENGINEER OF RECORD TO DO SO.

EMBEDMENT LENGTH

PRINTED INSTALLATION INSTRUCTIONS, BUT NOT OUTSIDE OF THE DESIGN TEMPERATURE RANGE. e. LOAD SHALL NOT BE APPLIED TO ADHESIVE ANCHORS UNTIL THE FULL CURING TIME ASSOCIATED WITH THE INSTALLATION TEMPERATURE HAS ELAPSED. C. $\,$ INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY CERTIFIED PERSONNEL. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION

PROGRAM, OR EQUIVALENT. ANCHOR ALIGNMENT SHALL BE WITHIN 6° OF PERPENDICULAR TO THE BASE MATERIAL. ANCHORS OUT-OF-ALIGNMENT SHALL BE REVIEWED BY A LICENSED STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED WITH SIGNED AND SEALED CALCULATIONS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD TO EVALUATE INDUCED BENDING LOAD USING A RATIONAL METHOD. ALTERNATELY, JOB SITE TESTS MAY BE CONDUCTED WITH WRITTEN APPROVAL BY THE

ANCHORS SHALL NOT BE REUSED AFTER INITIAL INSTALLATION. HOLES FOR REMOVED ANCHORS SHALL NOT BE REUSED.

. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF SUBSTRATE THICKNESS IS NOT COMPATIBLE WITH THE INDICATED

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

0

FIXTURE (NOTE 4)

08/22/25 DESIGN

NO. DATE DESCRIPTION

DEVELOPMENT



2100 RiverEdge Parkway Suite 900 Atlanta, GA 30328 2632 Broadway Street Suite 201, South Building

THOMPSON HANCOCK

WITTE & ASSOCIATES, INC.

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PRELIMINARY DRAWINGS. NOT TO BE USED FOR RECORDING, **IMPLEMENTATION** REGULATORY **APPROVAL** PERMITTING, OR

DESIGN DEVELOPMENT

CONCRETE **GENERAL NOTES &**

SCHEDULES

8/25/2025 1:54:57 AM

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CMU - REINFORCEMENT SPLICES¹ MASONRY DESIGN SHALL CONFORM TO TMS 402 AND ALL MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602. VERTICAL BARS² HORIZONTAL BARS³ 1 VERTICAL | 2 VERTICALS | 1 VERTICAL | 2 VERTICALS 1 HORIZONTAL | 1 HORIZONTAL | 2 HORIZONTALS | 2 HORIZONTALS 131"4 NOTE 5

- 1. 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.





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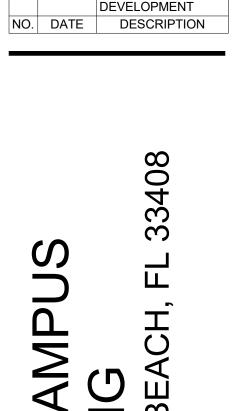
PRELIMINARY DRAWINGS. NOT TO BE USED FOR RECORDING, IMPLEMENTATION, REGULATORY APPROVAL, PERMITTING, OR

DESIGN DEVELOPMENT

Date:

CMU GENERAL

NOTES & **SCHEDULES**



08/22/25 DESIGN

JEZERINAC GROUP

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JG Project #: 21.18.004 TO THE BEST OF THE ENGINEER'S KNOWLEDGE. THE PLANS AND SPECIFICATIONS COMPLY WITH THE

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APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

GROUTED CELL. PROVIDE CORNER BARS SUCH THAT HORIZONTAL REINFORCEMENT IS CONTINUOUS AROUND 5. COVER TO STEEL REINFORCEMENT WITHIN MASONRY ELEMENTS SHALL NOT BE LESS THAN THE FOLLOWING: a. EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES (#5 AND SMALLER BARS), 2 INCHES (#6 AND LARGER BARS) b. NOT EXPOSED TO EARTH OR WEATHER: 1 ½ 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 ½ 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 BERING 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

CONCRETE MASONRY

MORTAR:

GROUT:

4. PORTLAND CEMENT:

C. CONCRETE MASONRY UNITS:

STEEL REINFORCEMENT:

8. JOINT REINFORCEMENT:

ALIGN WITH WEBS IN EACH COARSE.

MORE INTO CELLS TO BE GROUTED.

HEAD) FACE SHELL JOINTS.

COMPENSATING ADMIXTURE.

ADMIXTURES MAY BE USED.

1 HOUR BETWEEN LIFTS.

b. 1-#5 AT EACH CORNER

HEIGHT EXCEEDS 10 FEET.

MINIMUM EMBEDMENT OF 6 INCHES.

a. 1-#5 AT A MAXIMUM SPACING OF 48 INCHES

F. STEEL REINFORCEMENT:

BE AS FOLLOWS:

HYDRATED LIME:

6. AGGREGATE:

CONFORM TO THE FOLLOWING MATERIAL STANDARDS:

1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT (135 PCF)

ASTM C476

CONSTRUCTION)

ASTM C207, TYPE 'S'

ASTM A615, GRADE 60

ASTM C404 (FOR GROUT)

1. F'_M SHALL BE **[2000]** 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

1. HEAD AND BED JOINTS SHALL BE 3/8 INCHES FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE

2. PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND

2. GROUT MIX SHALL CONTAIN PORTLAND CEMENT, AGGREGATE, AND A GROUT-ENHANCING SHRINKAGE-

3. MAXIMUM SIZE OF AGGREGATE SHALL BE 3/8 INCH. SLUMP SHALL BE 8 TO 11 INCHES. WATER REDUCING

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-LIFT GROUTING, USE 5'-0" (MAXIMUM) LIFTS, WITH ½ HOUR TO

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

OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR

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

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

4. ALL HORIZONTAL REINFORCEMENT AT ENDS OF BOND BEAMS SHALL HAVE STANDARD HOOK INTO VERTICAL

1. MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF [3000] PSI AT 28-DAYS.

5. GROUT SHALL BE VIBRATED WHILE PLACING TO ENSURE THAT CELLS ARE COMPLETELY FILLED.

FULLY MORTARED IN ALL COURSES OF: PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING ½ INCHES OR

A. MANUFACTURE AND INSTALL ALL CONCRETE MASONRY IN ACCORDANCE WITH DIVISION 04 SPECIFICATIONS. ALL

B. ALL LOAD-BEARING, NON-LOAD-BEARING, AND BACKUP WALL CONCRETE MASONRY UNIT CONSTRUCTION SHALL

SOIL; TYPE 'S' IS IN ALL OTHER CONDITIONS)

ASTM C270, TYPE 'S' OR 'M' PORTLAND CEMENT/LIME ONLY

ASTM C150, TYPE I (TYPE III MAY BE USED FOR COLD-WEATHER

(USE TYPE 'M' MORTAR WHEN MASONRY IS IN DIRECT CONTACT WITH

ASTM A1064, TRUSS OR LADDER TYPE, GALVANIZE PER ASTM A153, TYPE B-2

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 4. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. 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

5. CONDUITS AND PIPES SHALL BE FABRICATED AND INSTALLED SO THAT CUTTING, BENDING, OR DISPLACEMENT

SHALL NOT BE EMBEDDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. 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

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.

A. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS:

 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

MISCELLANEOUS ANGLES: ASTM A36 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: ANGLES: ASTM A36

ASTM A992 WTs: PLATES: ASTM A572, MIN YIELD STRENGTH 50 KSI BOLTS: ASTM A325

5. NUTS: ASTM A563

WASHERS: ASTM F436 . ANCHOR RODS:

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

D. CANTILEVERED BEAMS WITH NATURAL MILL CAMBER SHALL BE ERECTED SUCH THAT THE CAMBER IS ORIENTED

UNLESS APPROVED OTHERWISE BY THE SER IN WRITING.

BE KEPT CLEAN AND OPEN. H. SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR

STRUCTURAL ENGINEER.

STRUCTURAL ENGINEER. J. WHERE BEAM SHEAR IS NOT NOTED, DESIGN FOR 10K.

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

SEALED CALCULATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO STARTING FABRICATION. M. CONNECTION DESIGN SHALL MEET THE REQUIREMENTS OF THE AISC 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

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 FABRICATED AS SHOWN.

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.

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 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.

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.

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. . 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

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.

N. STEEL USING COMPLETE JOINT PENETRATION GROOVE WELDS THAT FUSE THROUGH THE THICKNESS OF THE FLANGE OR WEB SHALL HAVE A MINIMUM CHARPY V-NOTCH IMPACT TESTING VALUE AS FOLLOWS: 1. ASTM A6/A6M HOT-ROLLED SHAPES WITH A FLANGE THICKNESS EXCEEDING 2 INCHES AND BUILT-UP HEAVY

2. REGARDLESS OF THICKNESS, ALL TRUSSES, LATERAL SYSTEM MEMBERS (INCLUDING COLUMNS, WIND GIRDERS, BRACES, ETC): 20 FT-LB AT 70° FAHRENHEIT.

TEMPERATURE + 20° FAHRENHEIT; 40° FAHRENHEIT MAXIMUM.

4. WELD METAL: 20 FT-LB AT -20° FAHRENHEIT AND 40 FT-LB AT 70° FAHRENHEIT.

STEEL DECK GENERAL REQUIREMENTS

- A. ALL STEEL DECK SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE DIVISION 05
- 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:

- ASTM F1554 GRADE 55 WITH WELDABILITY SUPPLEMENT S1
- DOWNWARD (OR CONCAVE UP). E. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS
- F. FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER, PROVIDE HOT-DIPPED GALVANIZED FINISH. G. 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
- ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND
- I. FIELD MODIFICATIONS OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND
- 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
- 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

- 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

- B. ALL WELDS SHALL BE MADE USING LOW HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH PER AWS
- F. ALL WELD SIZES SHALL BE THE LARGER OF: THE SIZE REQUIRED BY THE CONNECTION FORCES, MINIMUM SIZE PER
- ANSI/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 DELEVOP THE
- 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.
- SHAPES WITH PLATES EXCEEDING 2 INCHES IN THICKNESS: 20 FT-LB AT 70° FAHRENHEIT.
- 3. STEEL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50° FAHRENHEIT: 20 FT-LB AT SERVICE
- 5. TESTING IS TO BE IN ACCORDANCE WITH ASTM A6/A6M, SUPPLEMENTARY REQUIREMENT S30, CHARPY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES – ALTERNATE CORE LOCATION, AT ROLLED SHAPES AND ASTM A673 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.

- B. STEEL DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION),
- MATERIAL STRENGTH

SPECIFICATIONS.

- SECTION PROPERTIES DECK GAGE, LAYOUT
- 4. FASTENER TYPE CONNECTION PATTERN
- 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 PRIMED 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. . 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.
- . 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
- 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 1/2 INCH PER FOOT.
- 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.

DO NOT HANG CEILINGS, 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

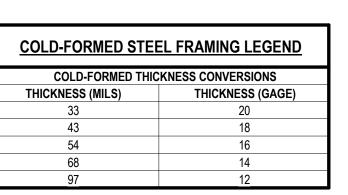
NON-COMPOSITE STEEL FORM DECK

INSTALLATION.

- 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
- H. ALL COLD-FORMED STEEL, 54 MIL AND THICKER SHALL HAVE A MINIMUM YIELD STRENGTH (F_V) 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.
- . INSTALLATION OF CURTAIN WALL FRAMING SHALL ACCOMMODATE VERTICAL DISPLACEMENT OF THE PRIMARY 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
- 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.



600 S 162 - 54

MATERIAL THICKNESS: (EXAMPLE: 0.054" = 54 MILS: 1 MIL = 1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE STEEL THICKNESS IN MILS. MINIMUM BASE STEEL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS

INCH) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES STYLE: (EXAMPLE: STUD OR JOIST SECTION = S) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:

FLANGE WIDTH: (EXAMPLE: 1 5/8" = 1.625" = 162 x 1/100

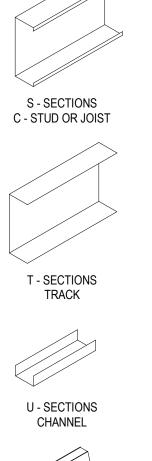
F = FURRING CHANNEL SECTIONS MEMBER DEPTH: (EXAMPLE: 6" = 600 x 1/100 INCH) ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL 'T' SECTIONS, THE MEMBER DEPTH IS THE INSIDE TO

S = STUD OR JOIST SECTIONS

T = TRACK SECTIONS

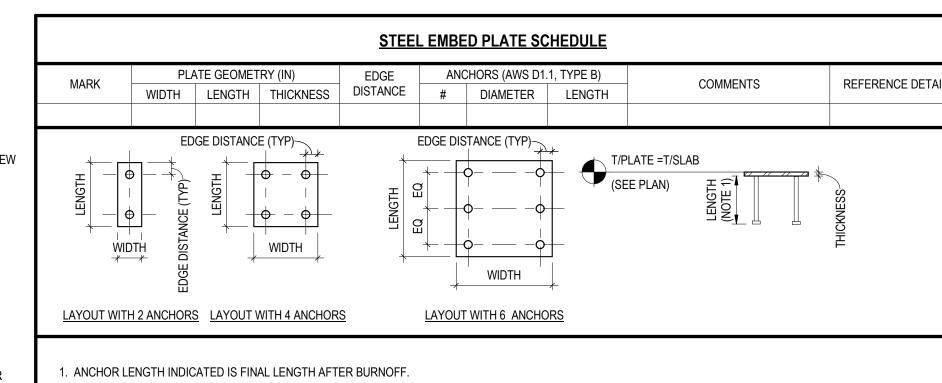
INSIDE DIMENSION

U = CHANNEL SECTIONS



F - SECTIONS

FURRING CHANNEL



- 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.

08/22/25 DESIGN

NO. DATE DESCRIPTION

DEVELOPMENT

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STEEL

GENERAL

NOTES &

SCHEDULES

Project No.:

Date:

JEZERINAC GROUP

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MATERIAL SPECIFICATIONS.

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OVERALL FOUNDATION PLAN

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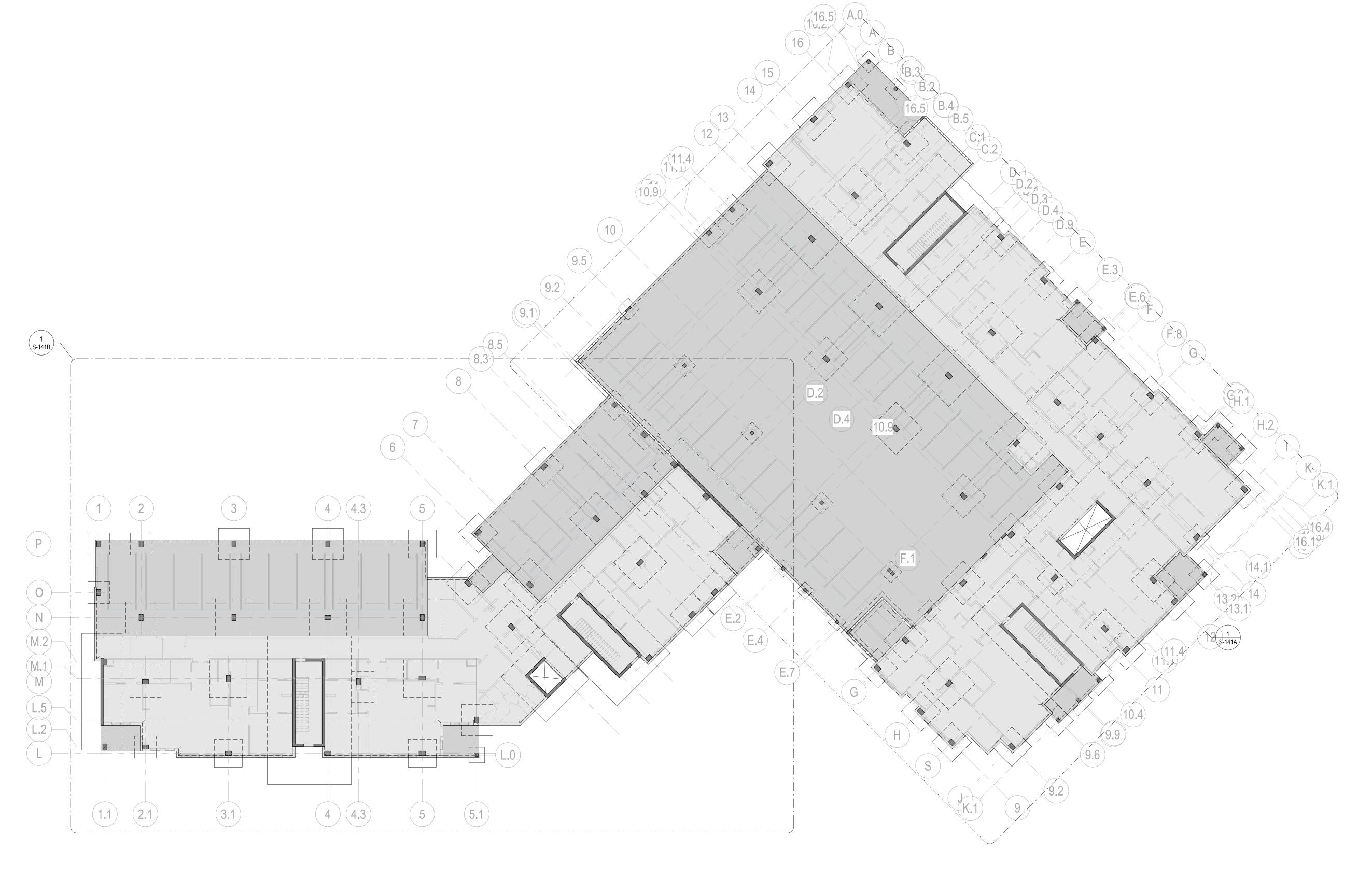
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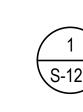
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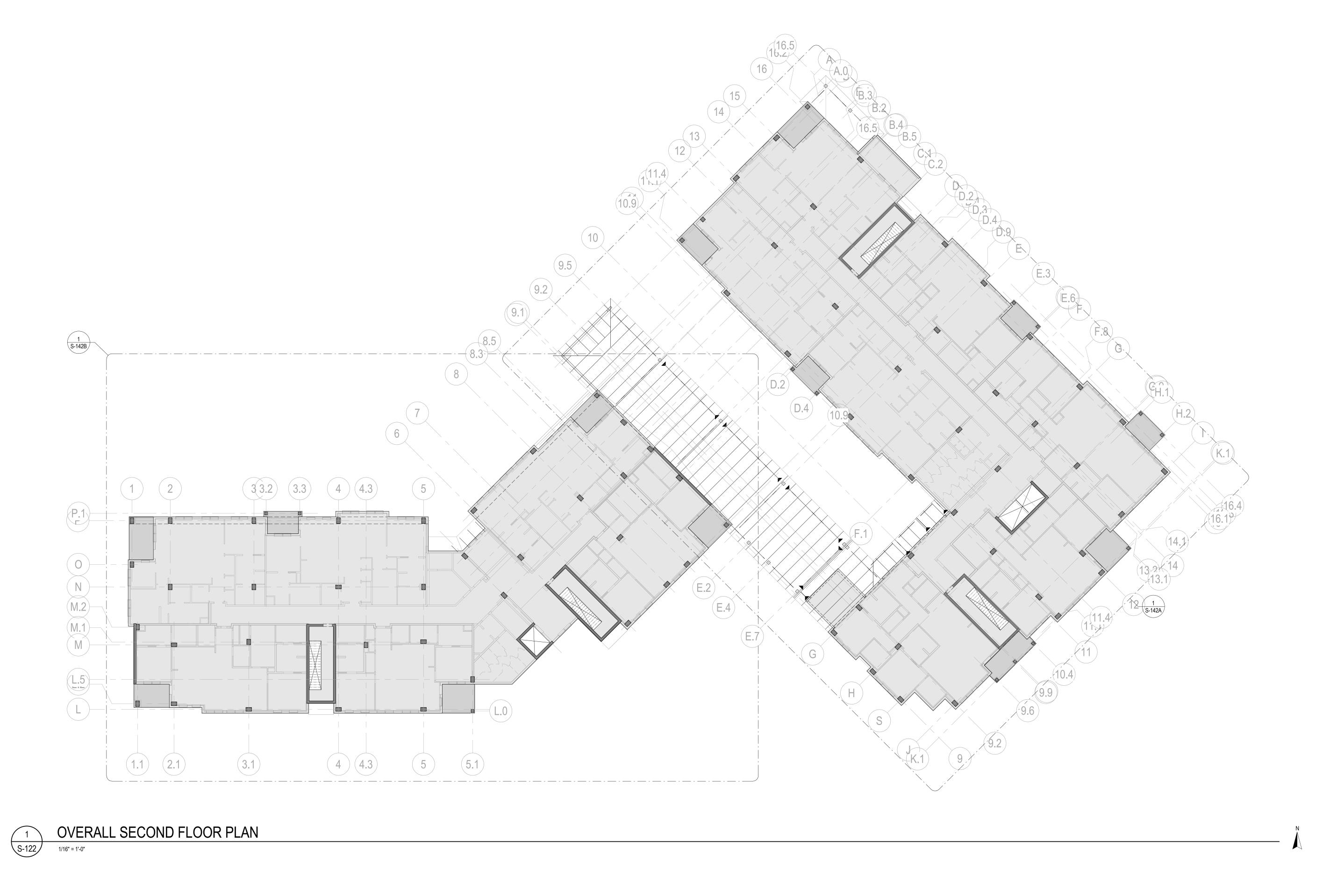
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OVERALL THIRD FLOOR PLAN

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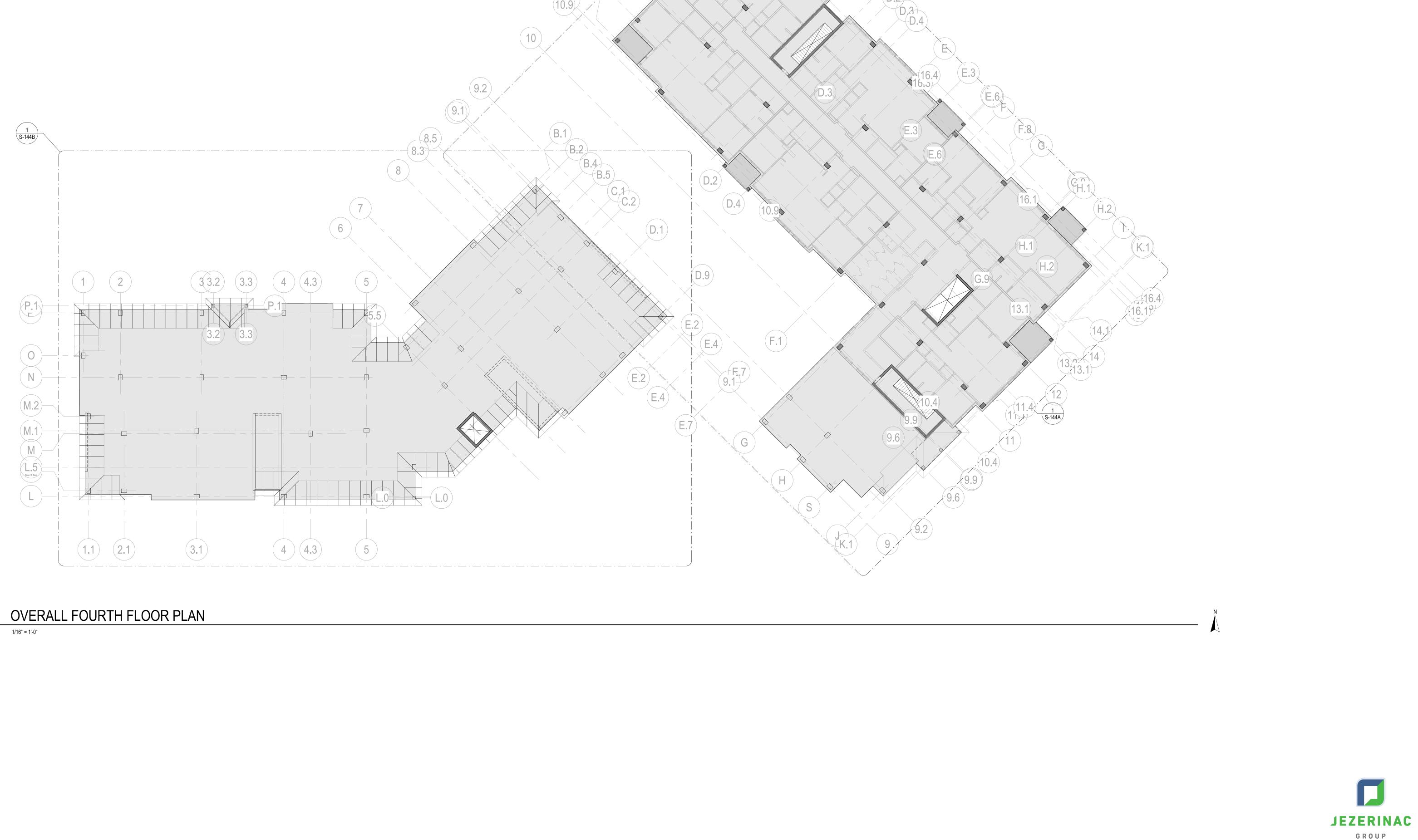
OVERALL FOURTH FLOOR PLAN

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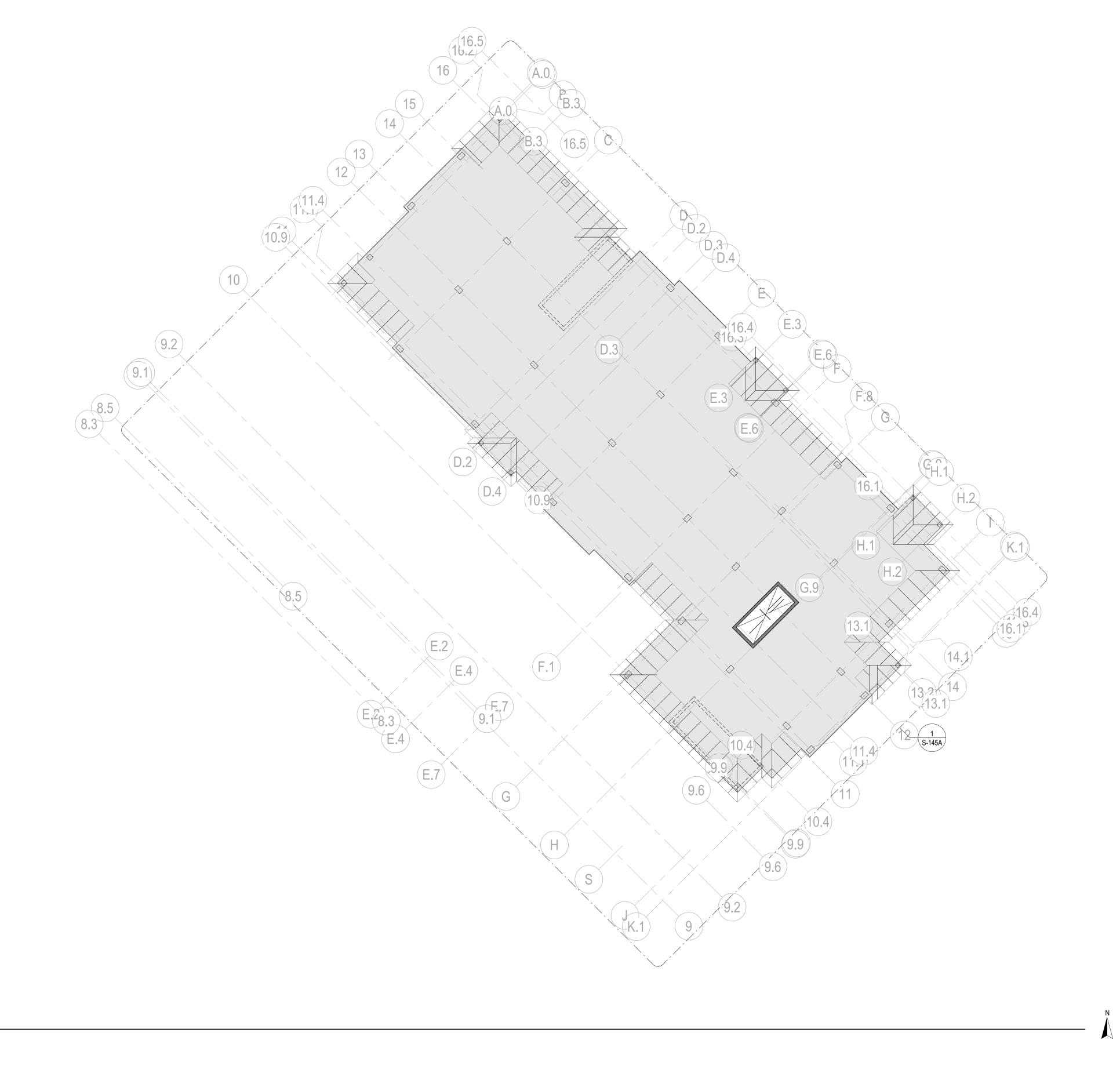
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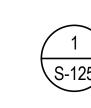
DESIGN DEVELOPMENT

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> **OVERALL ROOF PLAN**

SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND





OVERALL ROOF PLAN

ROOF BELOW

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JG Project #: 21.18.004

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FOR WALL DETAILS SEE **SXXXX** SERIES.

FOR PIPING PASSING UNDER WALL FOUNDATIONS, SEE **SXXXX**.

STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

PIPING PASSING UNDER FOOTINGS SHALL BE INSPECTED BEFORE FOUNDATIONS ABOVE ARE PREPARED.

6. GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS

8. DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **#X** AT **XX"** OC VERTICAL

9. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL

NEEDED. ADDITIONALLY, GENERAL CONTRACTOR SHALL COORDINATE FOUNDATION ELEVATIONS WITH

PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO THE

4. FOR STEEL COLUMN BASE PLATE INFORMATION, SEE SXXXX.

5. FOR TRENCHES ADJACENT TO FOUNDATIONS, SEE **SXXXX**.

7. DENOTES STEP IN FOUNDATION, SEE **SXXXX**.

DENOTES SHOWER DEPRESSION.

3. DENOTES STEEL COLUMN. SEE **SXXXX**.

6. FOR THICKENED SLAB UNDER NON-LOAD BEARING CONCRETE MASONRY WALLS, **SEE SXXXX**.

8. DENOTES STEP IN TOP OF SLAB, **SEE SXXXX**.

GENERAL CONTRACTOR SHALL COORDINATE HOUSEKEEPING PAD LOCATIONS.

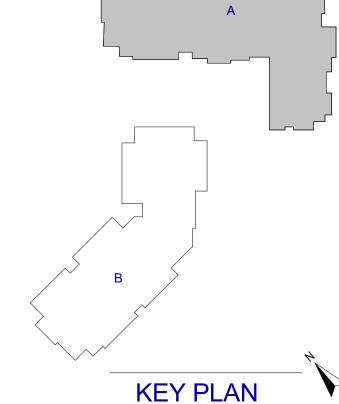
9. SEE CIVIL DRAWINGS FOR BASE AND SUBGRADE PREPARATION INFORMATION.

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 DISCREPENCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION. • SLAB SLOPES, DRAINS, STEPS, PENETRATIONS, FINISHES, AND ANY OTHER ADDITIONAL INFORMATION.

ISOLATED FOOTING SCHEDULE					
		GEOMETRY		REINFOF	RCEMENT
MARK	WIDTH	LENGTH	THICKNESS	LONG BARS	SHORT BARS
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"		



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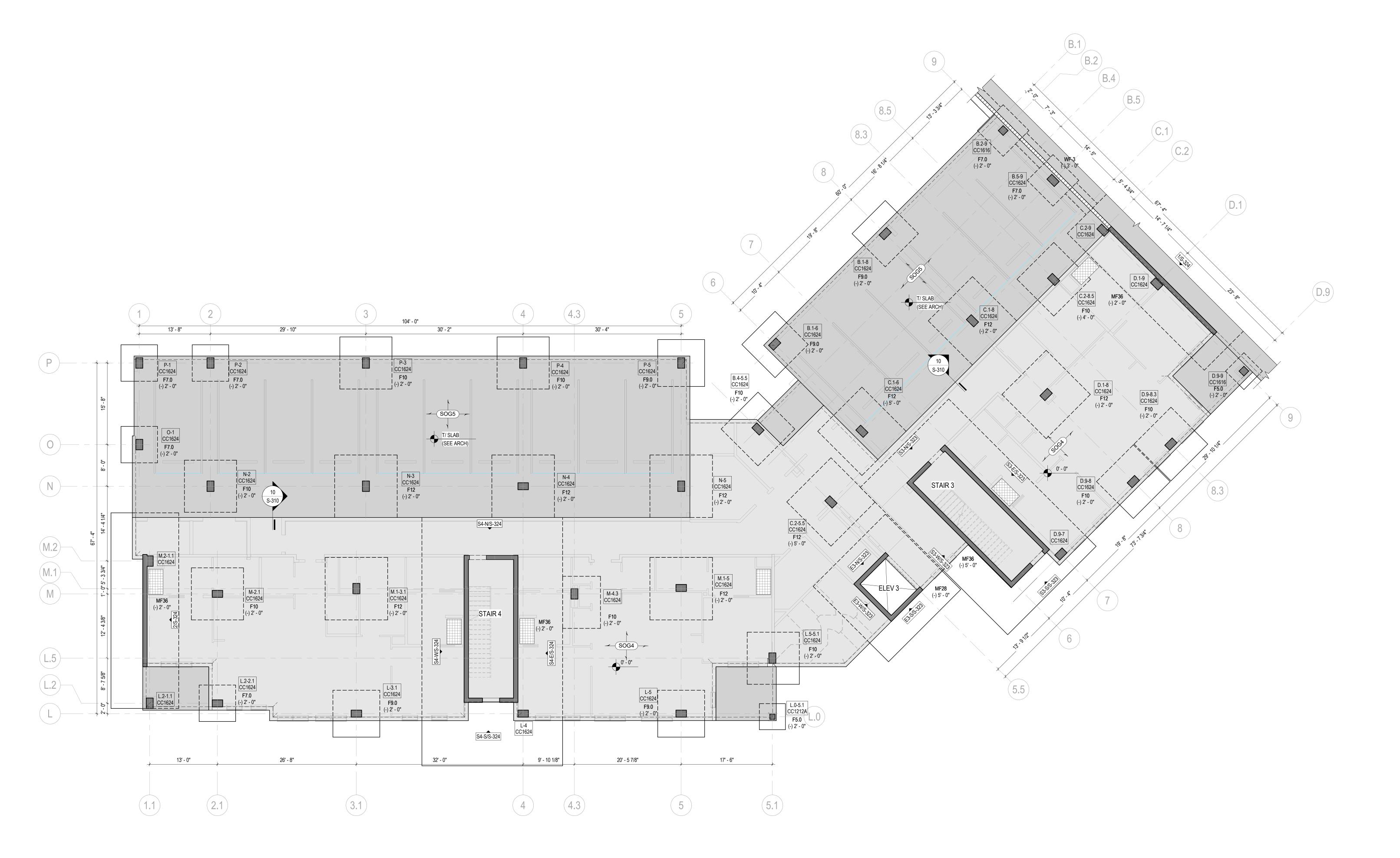
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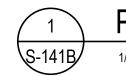
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PARTIAL FOUNDATION PLAN AREA A





PARTIAL FOUNDATION FRAMING PLAN - AREA B

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

(-) X'_. - X"

X_-X# -- LOCATION MARK

CC##x## COLUMN MARK (SEE SCHEDULE ON THIS SHEET AND NOTE 2) FOUNDATION OR PIER MARK

TOP OF FOOTING/PIER ELEVATION

- 2. DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES. FOR WALL DETAILS SEE **SXXXX** SERIES.
- 3. DENOTES STEEL COLUMN. SEE <u>SXXXX</u>.
- 4. FOR STEEL COLUMN BASE PLATE INFORMATION, SEE SXXXX.
- 5. FOR TRENCHES ADJACENT TO FOUNDATIONS, SEE <u>SXXXX</u>. FOR PIPING PASSING UNDER WALL FOUNDATIONS, SEE <u>SXXXX</u>.
- PIPING PASSING UNDER FOOTINGS SHALL BE INSPECTED BEFORE FOUNDATIONS ABOVE ARE PREPARED.

(SEE SCHEDULE ON THIS SHEET)

- 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).
- 3. SJ: DENOTES SLAB-ON-GROUND CONTROL JOINT. FOR CONTROL JOINT REQUIREMENTS, SEE **SXXXX**.
- 4. FOR RE-ENTRANT CORNER BARS, **SEE SXXXX**.

ALL SLOPED SLAB AREAS.

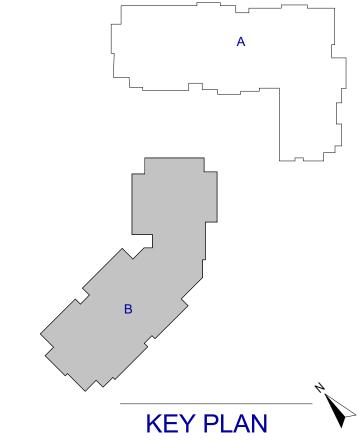
- 5. INSTALL THICKENED SLAB UNDER STAIR STRINGER, **SEE SXXXX**. 6. FOR THICKENED SLAB UNDER NON-LOAD BEARING CONCRETE MASONRY WALLS, **SEE SXXXX**.
- 7. GENERAL CONTRACTOR SHALL COORDINATE HOUSEKEEPING PAD LOCATIONS.
- 8. DENOTES STEP IN TOP OF SLAB, **SEE SXXXX**. 9. SEE CIVIL DRAWINGS FOR BASE AND SUBGRADE PREPARATION INFORMATION.
- 10. SEE ARCHITECTURAL DRAWINGS FOR: VAPOR BARRIER REQUIREMENTS AND LOCATIONS.
- (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 DISCREPENCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION. • SLAB SLOPES, DRAINS, STEPS, PENETRATIONS, FINISHES, AND ANY OTHER ADDITIONAL INFORMATION.

SLAB-ON-GROUND SCHEDULE				
THICKNESS	REINFORCEMENT	REMARKS		
4"				
5"				
	THICKNESS 4"	THICKNESS REINFORCEMENT 4"		

ISOLATED FOOTING SCHEDULE						
	GEOMETRY			REINFORCEMENT		
MARK	WIDTH	LENGTH	THICKNESS	LONG BARS	SHORT BARS	
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						
		REINFORCEMENT				
MARK	THICKNESS	TOP	BOTTOM			
MF28	28"					
MF32	32"					
MF36	36"					





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PARTIAL FOUNDATION PLAN AREA B

(E.5)(E.6) (F)

(F.8)(G)

(G.9)(H)(H.1)

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PARTIAL SECOND FLOOR 1615 FORUM PLACE, SUITE 3A **FRAMING** WEST PALM BEACH, FL 33401 T 561.622.8585 **PLAN AREA A** www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

KEY PLAN

THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF :DENOTES SHEAR REACTION.

 ALL SLOPED SLAB AREAS. ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCEPENCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.

(A.0)(A)(B)(B.3)

8. 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 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 SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON

9. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

10. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

11. DENOTES SHOWER DEPRESSION.

8. 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

11. REACTIONS SHOWN ARE FACTORED AND TYPE OF CONNECTION DESIGN ARE NOTED AS FOLLOWS:

(D)(D.2)(D.3)(D.4)

9. GENERAL CONTRACTOR SHALL COORDINATE CFS TRUSS BRIDGING AND BRACING REQUIREMENTS PER CFS

10. STEEL CONNECTION DESIGN HAS BEEN DELEGATED TO BE SELECTED/COMPLETED BY STRUCTURAL STEEL FABRICATOR (SEE STRUCTURAL STEEL GENERAL NOTES & PROJECT SPECIFICATIONS).

:DENOTES MOMENT CONNECTION. M = #K-FT DESIGN MOMENT CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS.

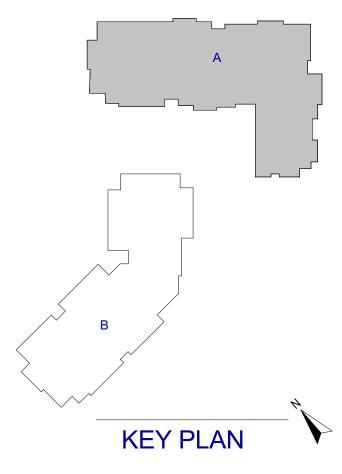
DESIGN SHEAR CONNECTIONS FOR FORCES INDICATED. IF REACTION IS NOT SHOWN, DESIGN FOR 25 KIPS.

:DENOTES LATERAL BRACING. SEE DETAILS ON PLAN.

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

PARTIAL
SECOND

SECOND FLOOR REINFORCING PLAN AREA A

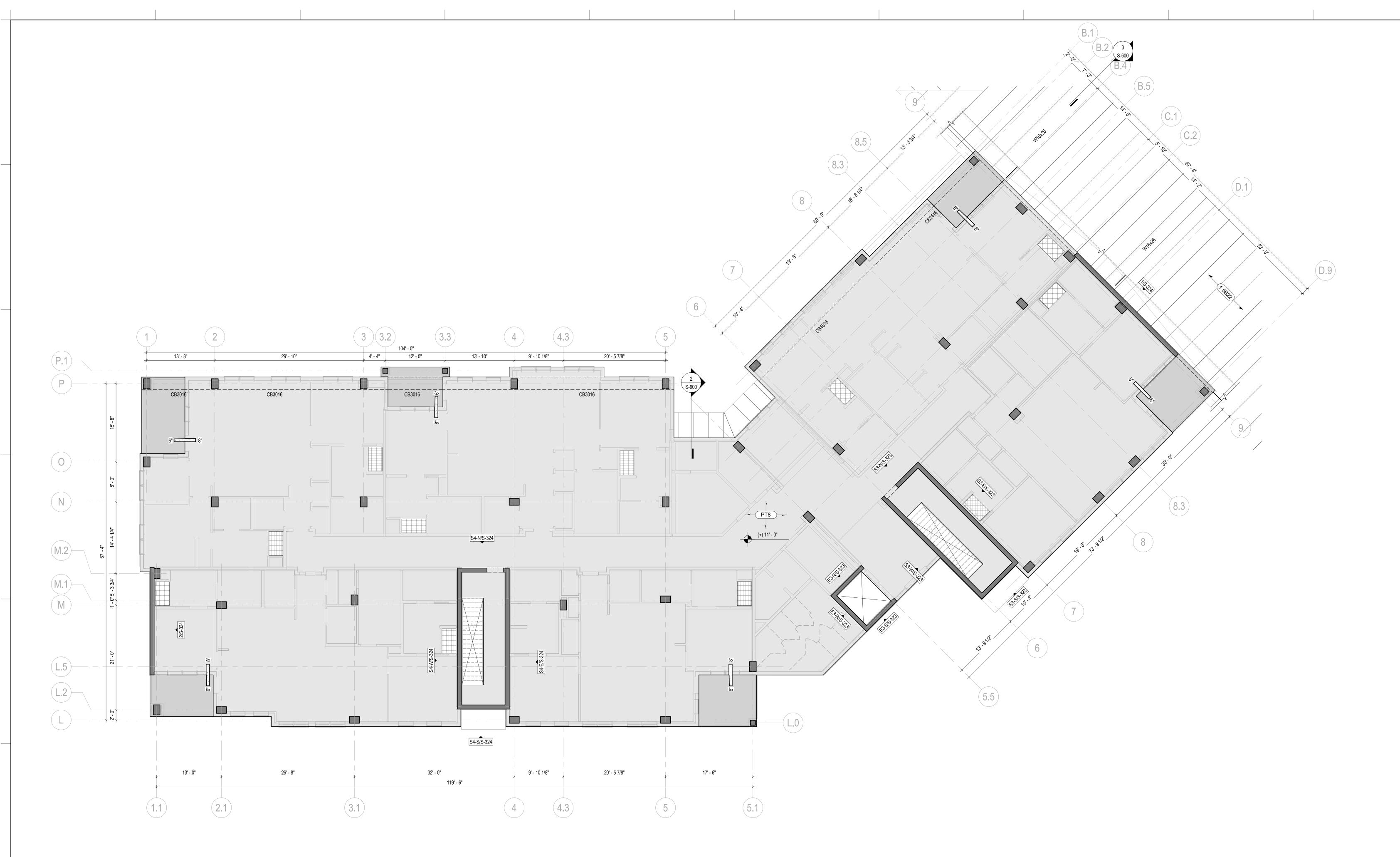
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C. TYPICAL NOMENCLATURE (SEE <u>SXXXX</u>).D. REINFORCEMENT AT COLUMNS (SEE <u>SXXXX</u>).





CONCRETE FRAMING PLAN NOTES:

 CONCRETE SLAB TAG: ARROWS DENOTE SLAB SPAN DIRECTION CS##: DENOTES SLAB MARK **←**(CS##)**←** (SEE SCHEDULE ON THIS SHEET FOR SLAB

2. SEE PLAN FOR TOP OF SLAB ELEVATIONS.

3. DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES. FOR WALL DETAILS SEE **SXXXX** SERIES. 4. DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL

REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

THICKNESS AND REINFORCEMENT)

5. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **#X** AT **XX"** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

6. DENOTES STEP IN TOP OF SLAB, <u>SEE SXXXX.</u>

7. 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 DISCEPENCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.

8. 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 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 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

9. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

10. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

11. DENOTES SHOWER DEPRESSION.

STEEL ROOF FRAMING PLAN NOTES:

2. SEE PLAN FOR TOP OF STEEL ELEVATIONS.

1. ROOF DECK TAG: - ARROWS DENOTE DECK SPAN DIRECTION #.#X##: DENOTES DECK MARK

---(#.#X##)---(SEE SCHEDULE ON THIS SHEET FOR DECK PROPERTIES AND ATTACHMENT PATTERNS)

3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN AND ALL SLAB ELEVATIONS.

4. JOIST SPACING SHALL NOT EXCEED 6'-0" (TYPICAL) UNLESS NOTED OTHERWISE.

5. 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.

6. ROOF EDGE ANGLES SHALL BE CONTINUOUS. FOR SPLICE CONNECTION SEE **SXXXX**.

PLAN. COORDINATE EXACT DIMENSIONS AND LOCATIONS WITH MECHANICAL DRAWINGS AND UNITS SUPPLIED. 8. PROVIDE EQUIPMENT SUPPORT FRAMING AT ROOFTOP EQUIPMENT. UNIT SUPPORT CURBS/FRAMES AND THEIR

7. NOTIFY STRUCTURAL ENGINEER OF RECORD IF MECHANICAL UNITS SUPPLIED EXCEED WEIGHTS NOTED ON

CONNECTION TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY OTHERS, UNLESS SPECIFICALLY

9. GENERAL CONTRACTOR SHALL COORDINATE CFS TRUSS BRIDGING AND BRACING REQUIREMENTS PER CFS

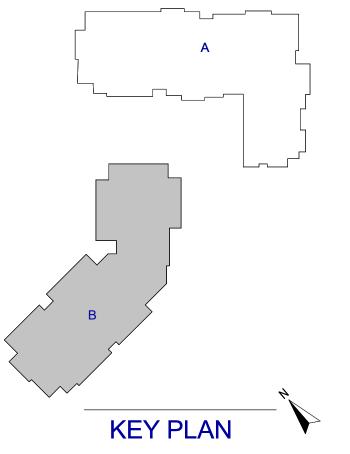
10. STEEL CONNECTION DESIGN HAS BEEN DELEGATED TO BE SELECTED/COMPLETED BY STRUCTURAL STEEL FABRICATOR (SEE STRUCTURAL STEEL GENERAL NOTES & PROJECT SPECIFICATIONS).

:DENOTES MOMENT CONNECTION. M = #K-FT 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.

11. REACTIONS SHOWN ARE FACTORED AND TYPE OF CONNECTION DESIGN ARE NOTED AS FOLLOWS:

:DENOTES LATERAL BRACING. SEE DETAILS ON PLAN.



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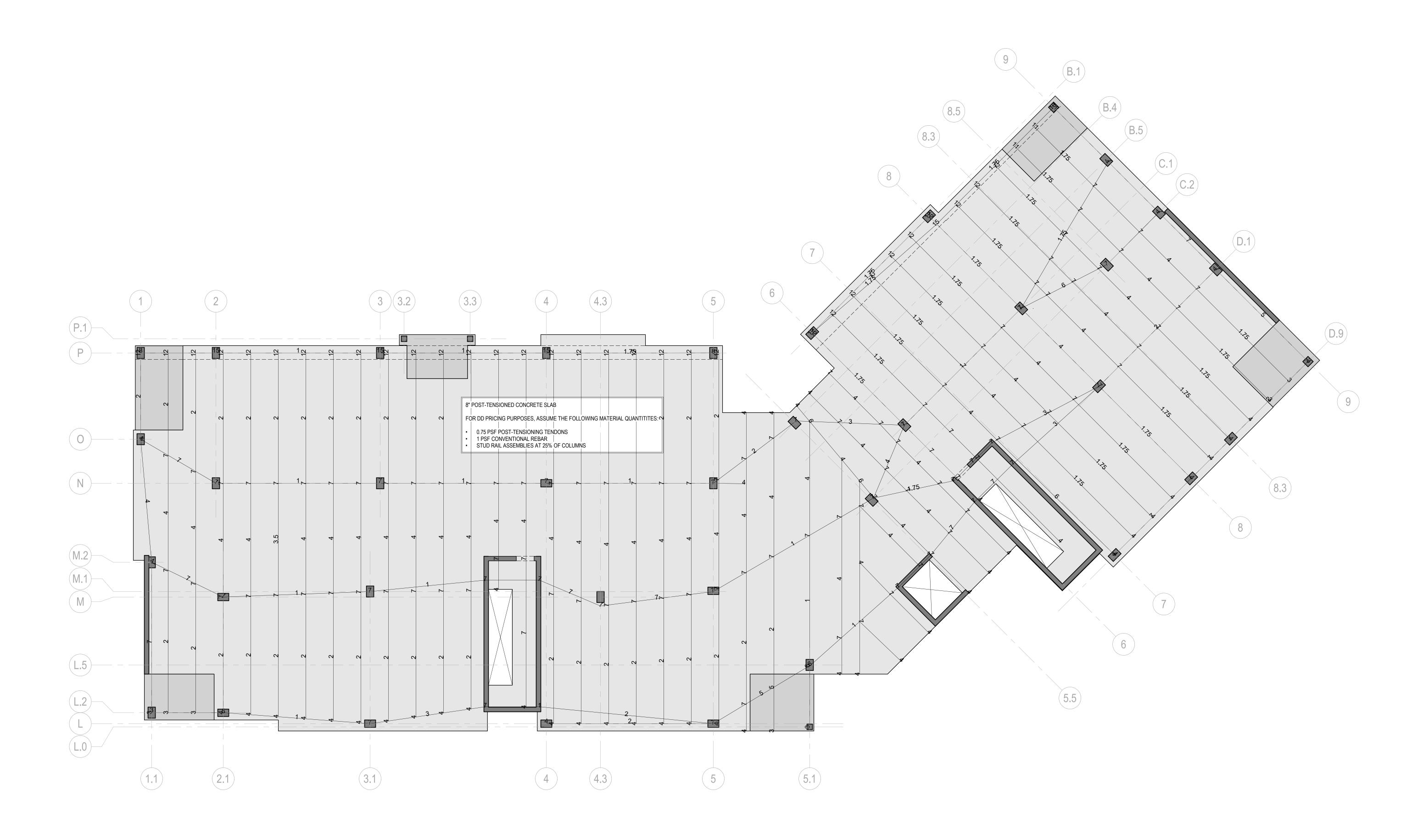
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PARTIAL SECOND FLOOR FRAMING

PLAN AREA B





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**.

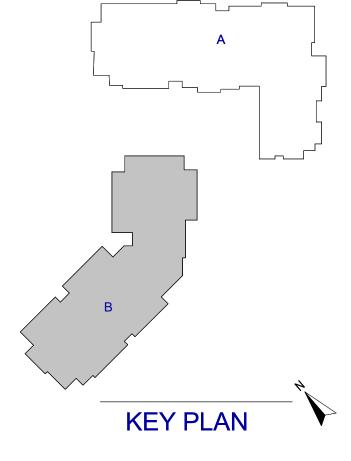
4. TENDON LAYOUT NOTES:

 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

PARTIAL SECOND FLOOR PT PLAN - AREA B

- LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE. STRAIGHT LINE HORIZONTAL OFFETS 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 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

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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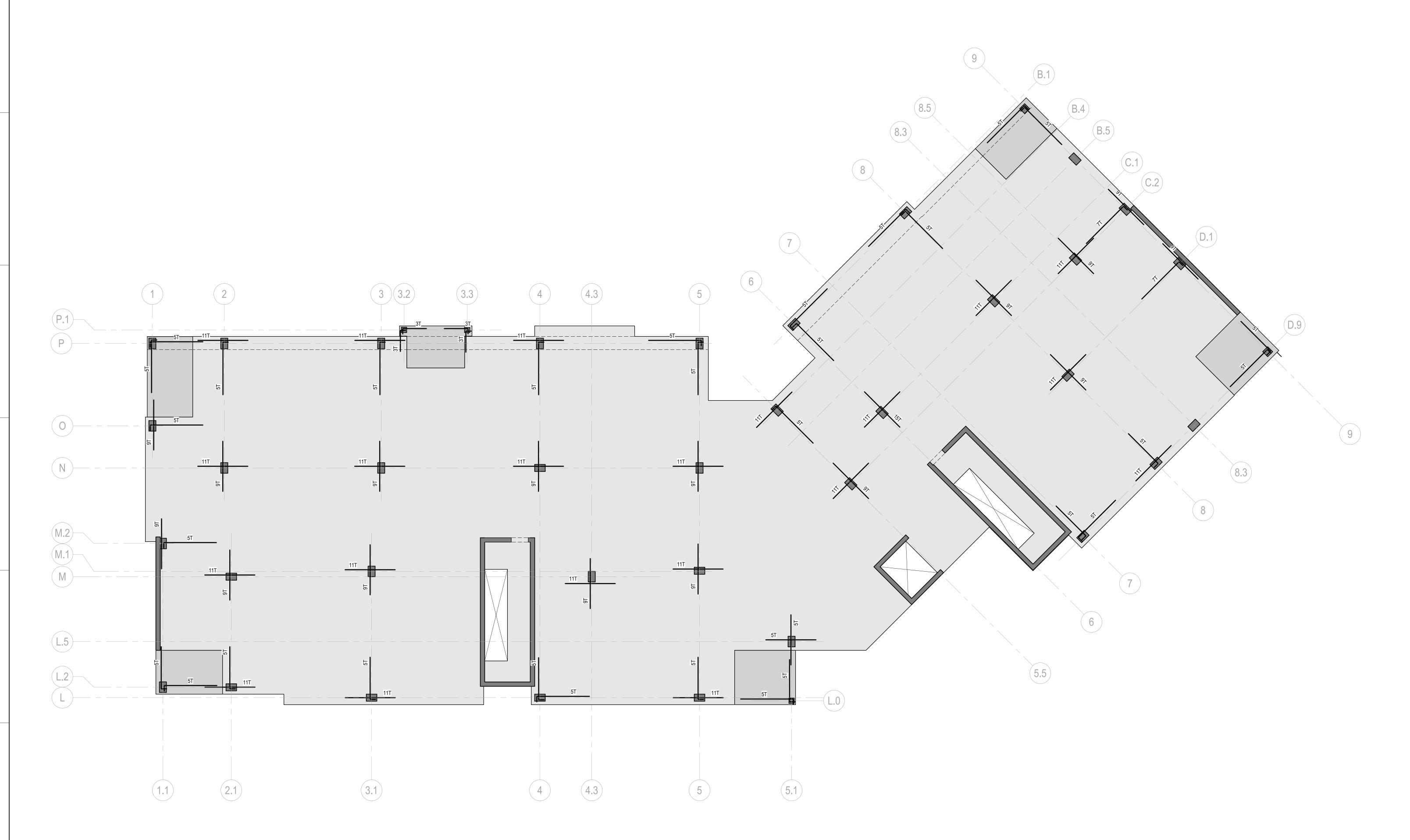
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PARTIAL SECOND FLOOR PT PLAN AREA B





CONCRETE SLAB REINFORCEMENT PLAN NOTES:

 PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE <u>SXXXX</u>). SEE SXXXX FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPLICE/DEVELOPMENT REQUIREMENTS.

3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.

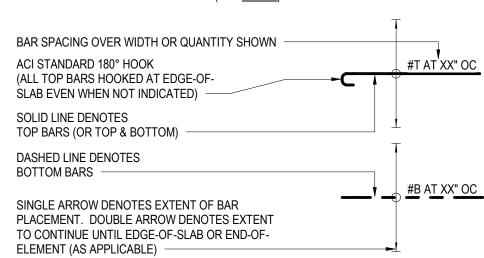
4. ##SR-#(#-#) :DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).

5. SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

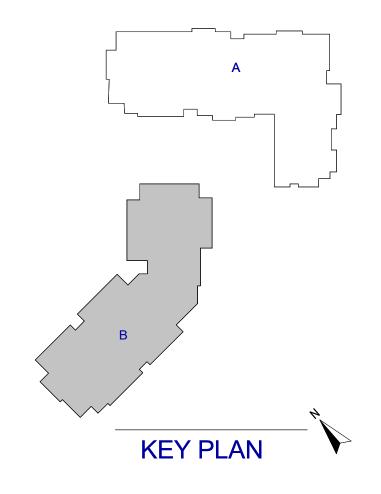
1. FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.

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**).



C. TYPICAL NOMENCLATURE (SEE <u>SXXXX</u>).D. REINFORCEMENT AT COLUMNS (SEE <u>SXXXX</u>).



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THIRD FLOOR **FRAMING PLAN AREA A** CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

KEY PLAN

9. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

10. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF

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

11. DENOTES SHOWER DEPRESSION.

- 3. FOR TYPICAL POST-TENSIONED
- 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 OFFETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH
- HORIZONTAL CURVE/SWEEP PER DETAIL.

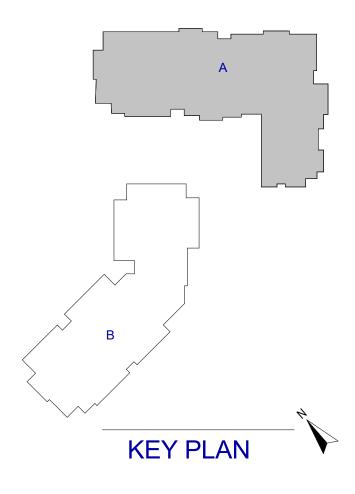
 MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE
- PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.

 5. TENDON DRAPE ELEVATION NOTES:
- # :DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDONS/STRAND BUNDLE (CGS).

 AT PEAR ENDO AND EXPERIENCE FAIR OF THE FRAMING (MID.)
- 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.

TENDÓN 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 = # 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



(G.9)(H)(H.1)

(F.8)(G)

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PARTIAL THIRD FLOOR PT PLAN AREA A

JILDING CODES AND SPECIFICATIONS.

ELEMENT (AS APPLICABLE)

C. TYPICAL NOMENCLATURE (SEE <u>SXXXX</u>).D. REINFORCEMENT AT COLUMNS (SEE <u>SXXXX</u>).

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PLAN AREA A

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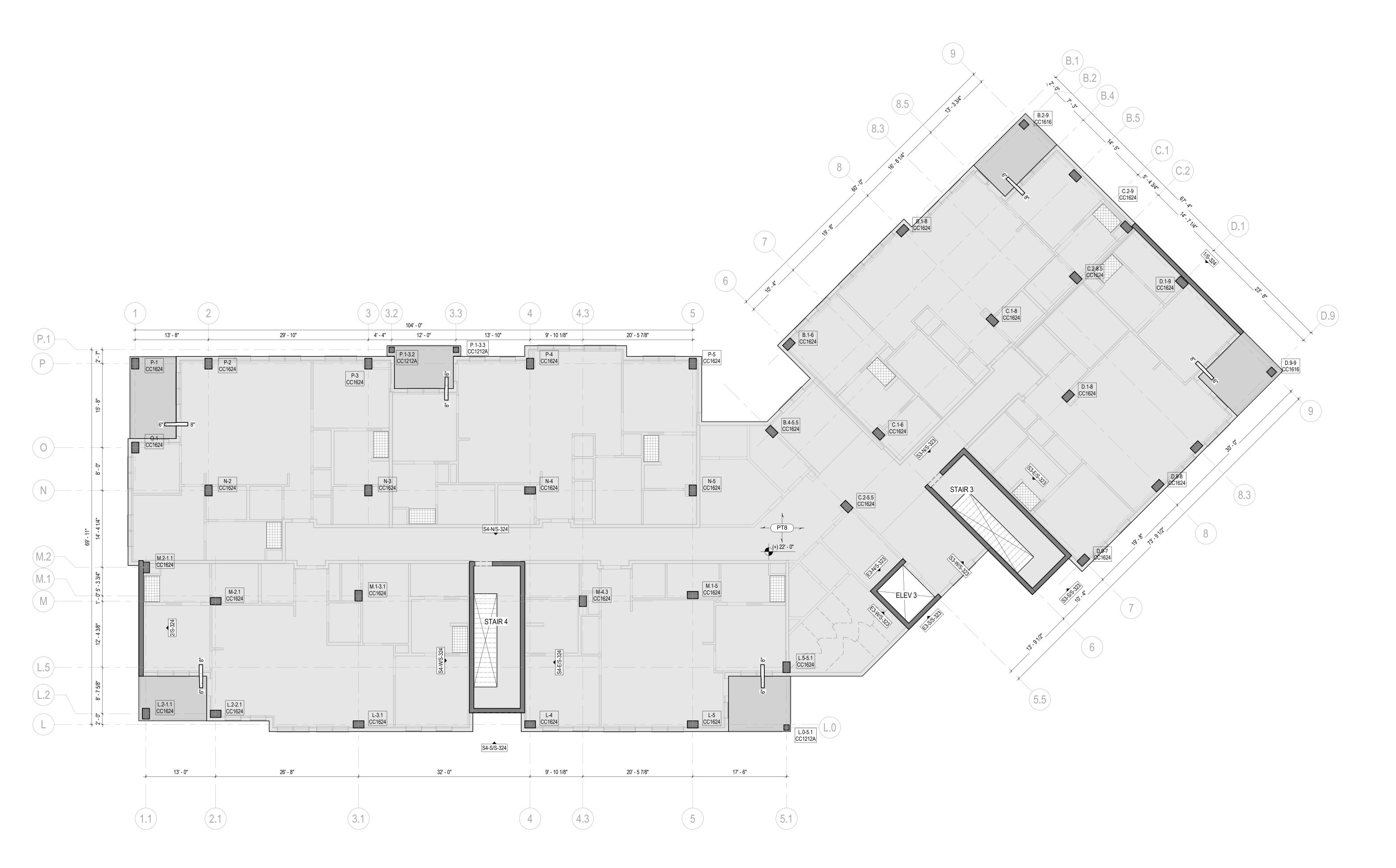
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KEY PLAN

S-143A-R



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

CONCRETE FRAMING PLAN NOTES:

1/8" = 1'-0"

 CONCRETE SLAB TAG: ARROWS DENOTE SLAB SPAN DIRECTION

CS##: DENOTES SLAB MARK (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)

2. SEE PLAN FOR TOP OF SLAB ELEVATIONS.

3. DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES. FOR WALL DETAILS SEE **SXXXX** SERIES.

4. DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **#X** AT **XX"** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

5. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

6. DENOTES STEP IN TOP OF SLAB, <u>SEE SXXXX</u>.

7. SEE ARCHITECTURAL DRAWINGS FOR: ALL SLOPED SLAB AREAS.

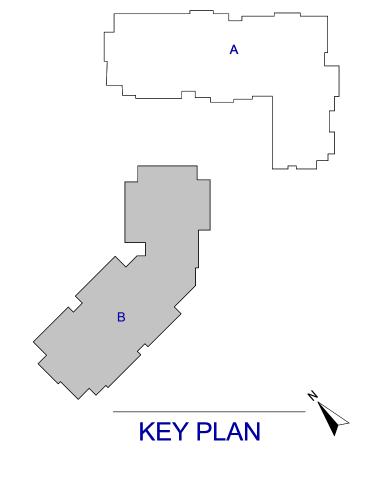
 ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCEPENCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.

8. 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 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 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

9. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

10. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

11. DENOTES SHOWER DEPRESSION.



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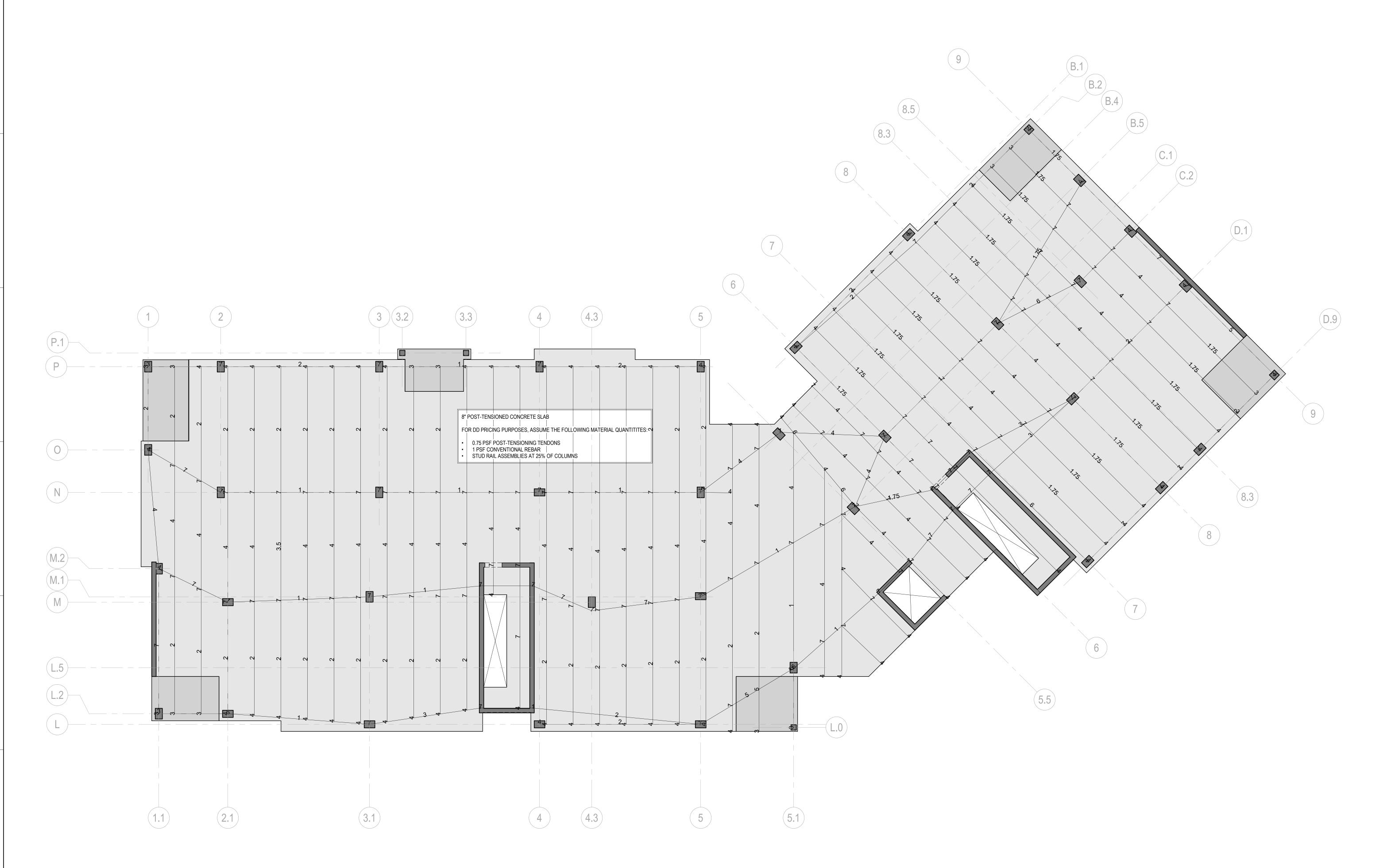
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PARTIAL THIRD FLOOR **FRAMING PLAN AREA B**

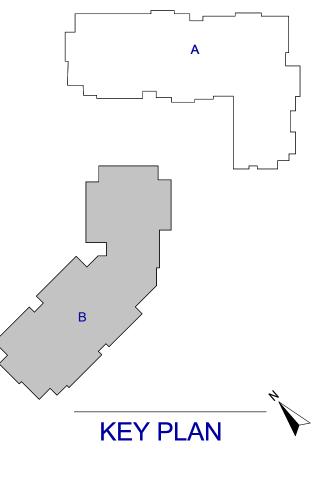


\$-143B-PT

PARTIAL THIRD FLOOR PT PLAN - AREA B 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:
- 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 OFFETS 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 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 = # KLF :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED
- 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 PT PLAN **AREA B**

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PARTIAL
THIRD FLOOR
REINFORCING
PLAN AREA B

S-143B-R

FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE <u>SXXXX</u>.
 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.

3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.

4. ##SR-#(#-#) :DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).

5. 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-OFSLAB 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-

C. TYPICAL NOMENCLATURE (SEE <u>SXXXX</u>).D. REINFORCEMENT AT COLUMNS (SEE <u>SXXXX</u>).

ELEMENT (AS APPLICABLE) -

TO THE BEST OF THE ENGINEER'S
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APPLICABLE BUILDING CODES AND
MATERIAL SPECIFICATIONS

KEY PLAN

MATERIAL SPECIFICATIONS.

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JG Project #: 21.18.004

US 1, FL 334

TERFORD CAMPUL BUILDING REACH F

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11. DENOTES SHOWER DEPRESSION.

WATERFORD CAMPUS

IL BUILDING

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PARTIAL
FOURTH
FLOOR
FLOOR
FRAMING
FRAMING
PLAN AREA A

S-144A

SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

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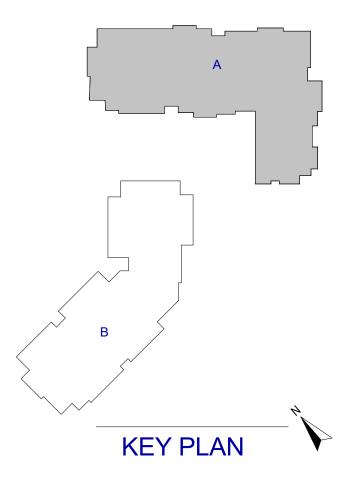


PARTIAL FOURTH FLOOR PT PLAN - AREA A \$-144A-P/T

- 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
- 3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE **SXXXX**.
- 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 OFFETS 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.
- 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.

TENDÓN 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 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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PLAN AREA A

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PARTIAL FOURTH FLOOR REINFORCING PLAN AREA A

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C. TYPICAL NOMENCLATURE (SEE <u>SXXXX</u>).D. REINFORCEMENT AT COLUMNS (SEE <u>SXXXX</u>).

EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL 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

 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

9. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

10. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

11. DENOTES SHOWER DEPRESSION.

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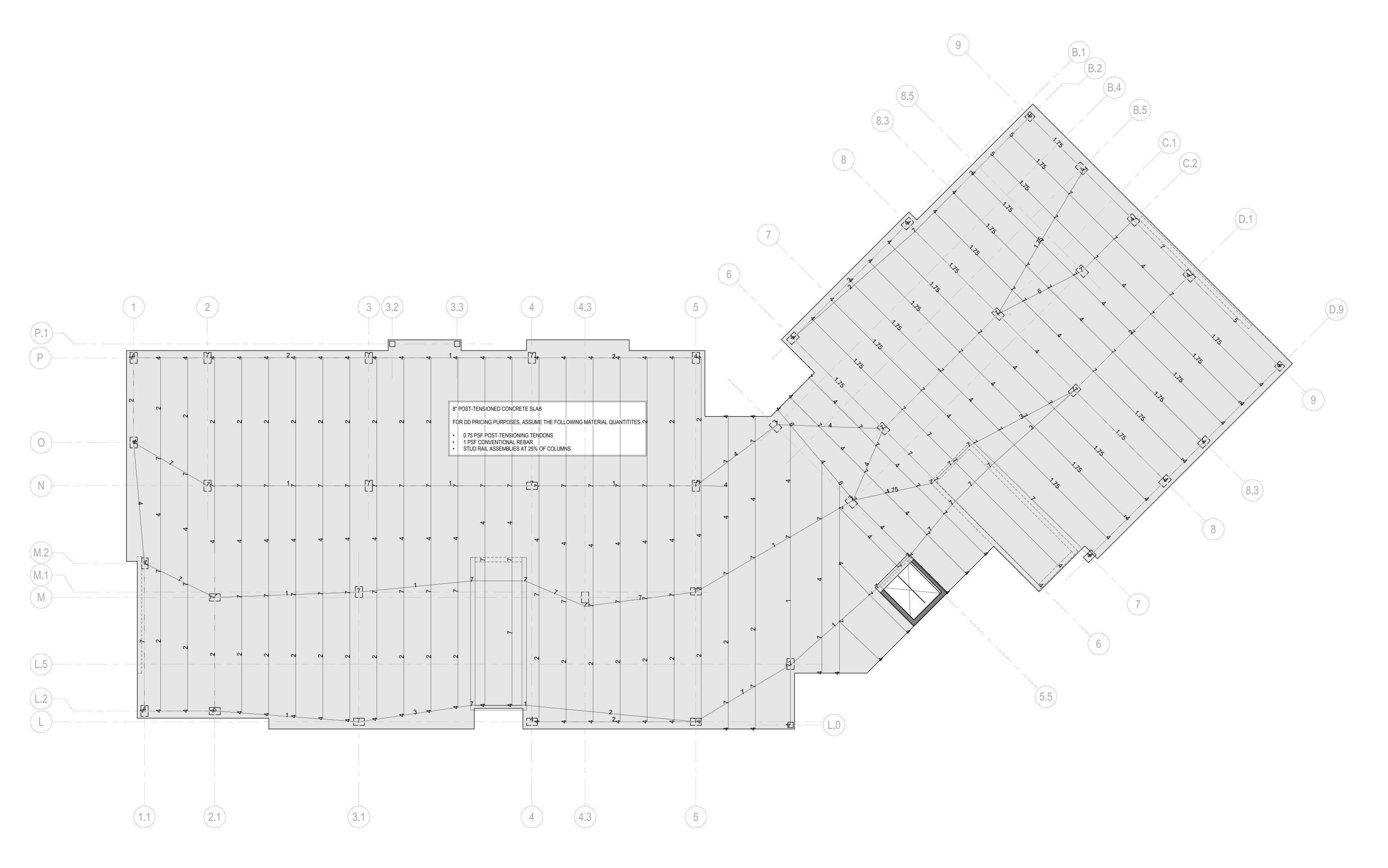
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KEY PLAN



PARTIAL ROOF PT PLAN - AREA B \$-144B-PT

POST-TENSIONED CONCRETE SLAB PLAN NOTES:

1/8" = 1'-0"

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: 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 OFFETS 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.

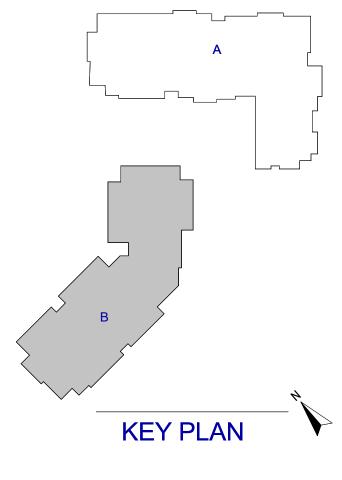
5. TENDON DRAPE ELEVATION NOTES:

 # :DENOTES 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 = # KLF :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED

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

PLAN AREA B

MATERIAL SPECIFICATIONS.

PARTIAL ROOF REINFORCING PLAN - AREA B

1/8" = 1'-0"

CONCRETE SLAB REINFORCEMENT PLAN NOTES: 1. FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.

PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE <u>SXXXX</u>). SEE SXXXX FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND

SPLICE/DEVELOPMENT REQUIREMENTS.

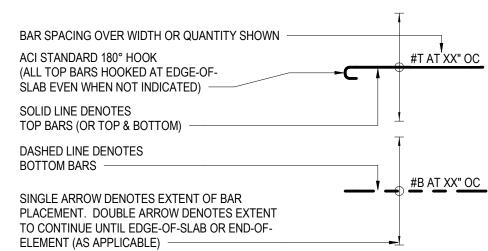
3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.

4. ##SR-#(#-#) :DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).

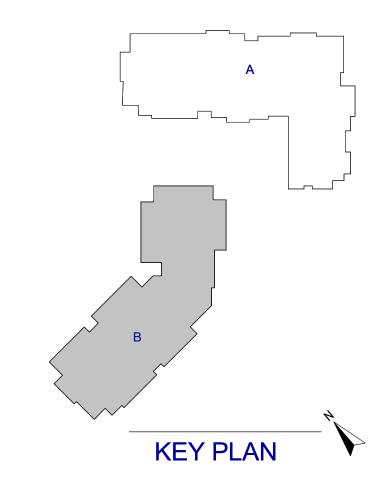
5. SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

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

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



C. TYPICAL NOMENCLATURE (SEE <u>SXXXX</u>).D. REINFORCEMENT AT COLUMNS (SEE <u>SXXXX</u>).



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PARTIAL ROOF REINFORCING **PLAN AREA B**

(F.8)(G)

(D)(D.2)

(D.3)(D.4)

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PARTIAL ROOF FRAMING

PLAN AREA A

10. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

11. DENOTES SHOWER DEPRESSION.

CONCRETE FRAMING PLAN NOTES: CONCRETE SLAB TAG: - ARROWS DENOTE SLAB SPAN DIRECTION CS##: DENOTES SLAB MARK _____CS##____ (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT) 2. SEE PLAN FOR TOP OF SLAB ELEVATIONS. 3. DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES. FOR WALL DETAILS SEE **SXXXX** SERIES. 4. DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL. 5. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **#X** AT **XX"** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL. 6. DENOTES STEP IN TOP OF SLAB, <u>SEE SXXXX.</u> 7. 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 DISCEPENCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION. 8. 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 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

9. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

JEZERINAC

GROUP

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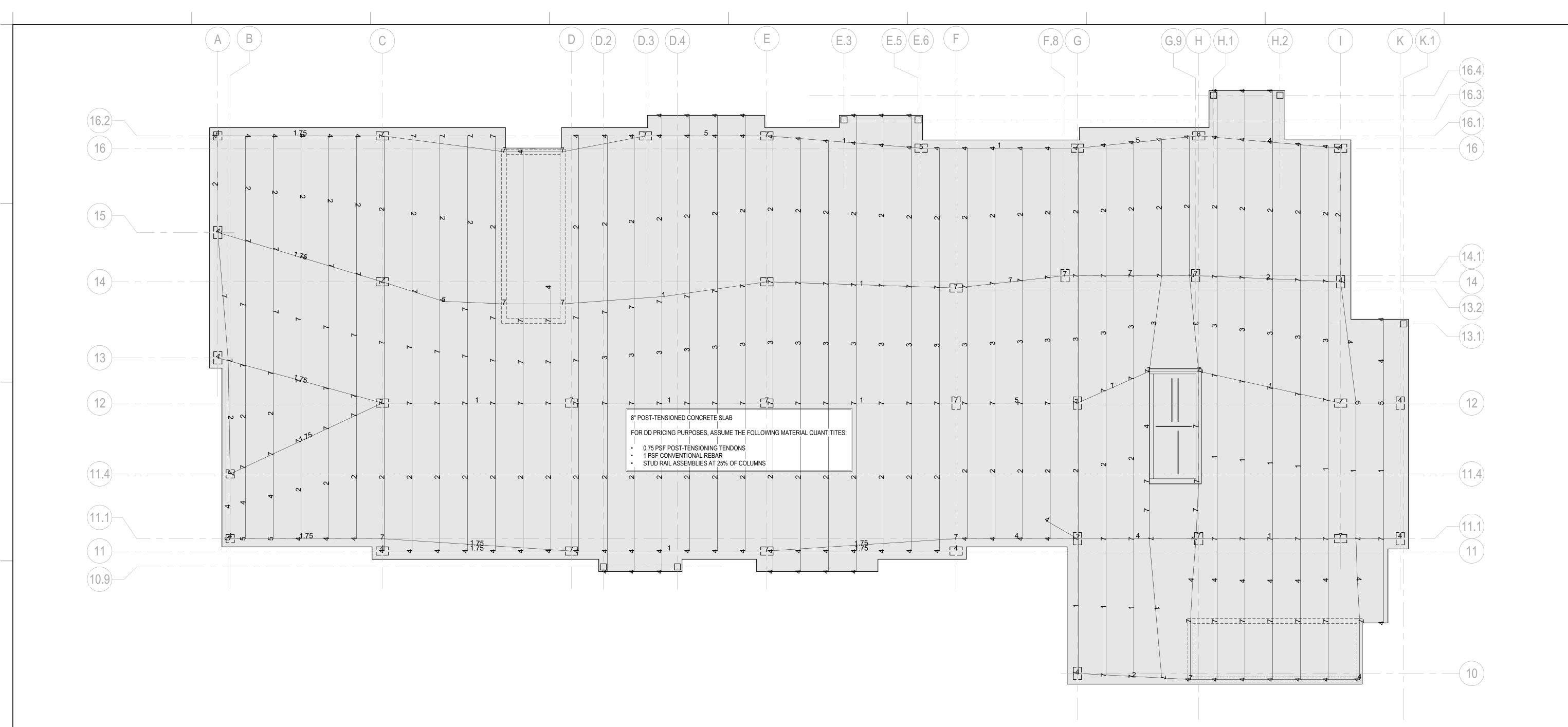
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9

KEY PLAN





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JEZERINAC PARTIAL ROOF PT PLAN AREA A

PARTIAL ROOF PT PLAN - AREA A \$-145A-P1 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

3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE **SXXXX**.

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 OFFETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH

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.

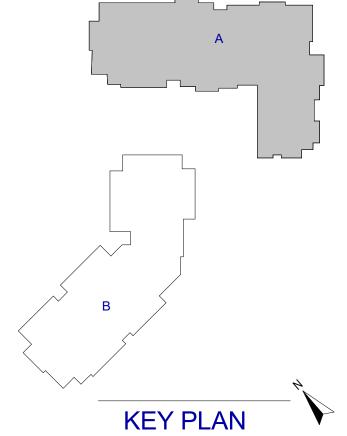
 TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON LINES) AS INDICATED ABOVE. TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.

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

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 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

QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A



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PARTIAL JEZERINAC ROOF GROUP

REINFORCING 1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401 **PLAN AREA A** T 561.622.8585 www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004 TO THE BEST OF THE ENGINEER'S

PARTIAL ROOF REINFORCING PLAN - AREA A

S-145A-R 1/8" = 1'-0" CONCRETE SLAB REINFORCEMENT PLAN NOTES:

1. FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.

2. 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.

3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.

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

ELEMENT (AS APPLICABLE)

#B AT XX" OC TO CONTINUE UNTIL EDGE-OF-SLAB OR END-OF-**KEY PLAN**

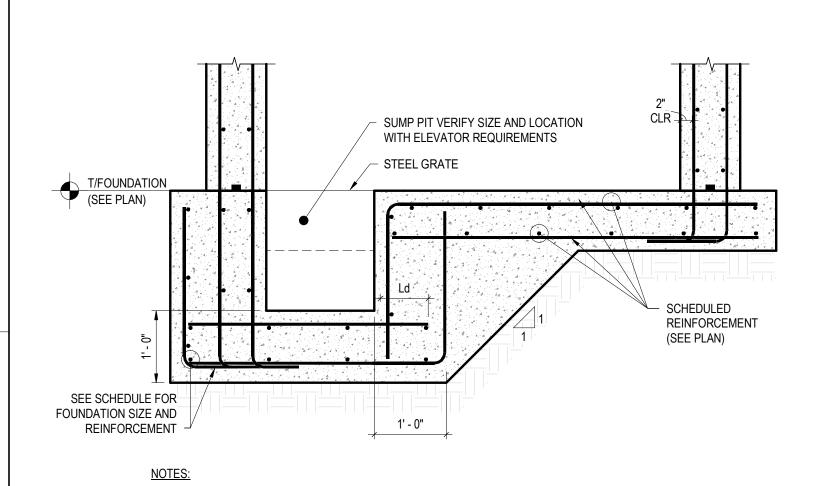
4. ##SR-#(#-#) :DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**). 5. SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE: A. MAT REINFORCEMENT (SEE SCHEDULE). PLACEMENT PRIORITY (SEE **SXXXX**) ARROWS DENOTE EXTENT (SINGLE & DOUBLE ARROWS AS MARK DEFINED IN NOTE 5.B) — MAT REINFORCEMENT MARK (SEE SCHEDULE ON THIS SHEET) B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE **SXXXX**).

#T AT XX" OC

C. TYPICAL NOMENCLATURE (SEE <u>SXXXX</u>).D. REINFORCEMENT AT COLUMNS (SEE <u>SXXXX</u>).

SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS. 8/25/2025 1:55:37 AM

KNOWLEDGE, THE PLANS AND



1. GC SHALL CONFIRM ALL DIMENSIONS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.





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TYPICAL FOUNDATION DETAILS



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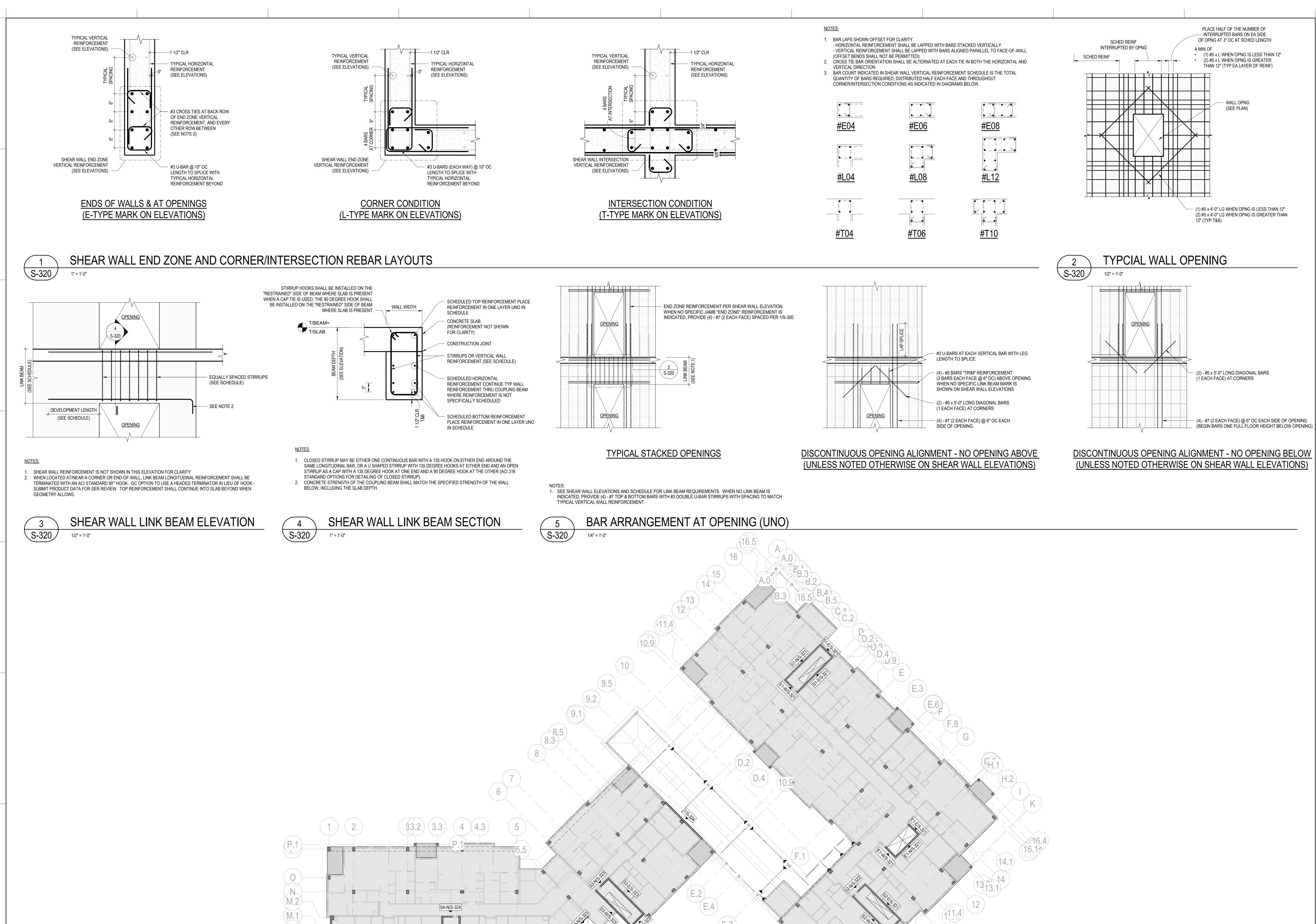
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MATERIAL SPECIFICATIONS.

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4 (4.3)

(3.1)

SHEAR WALL KEY PLAN

S-320

1" = 20'-0"

DEVELOPMENT Date: **TYPICAL JEZERINAC** GROUP 1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401

CONCRETE **SHEAR WALL DETAILS**

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S-321

APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

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Project No.: 2021009 Date:

CONCRETE **SHEAR WALL ELEVATIONS -**AREA A

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

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

ELEVATOR 1 NORTH WALL ELEVATION 3/16" = 1'-0"

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

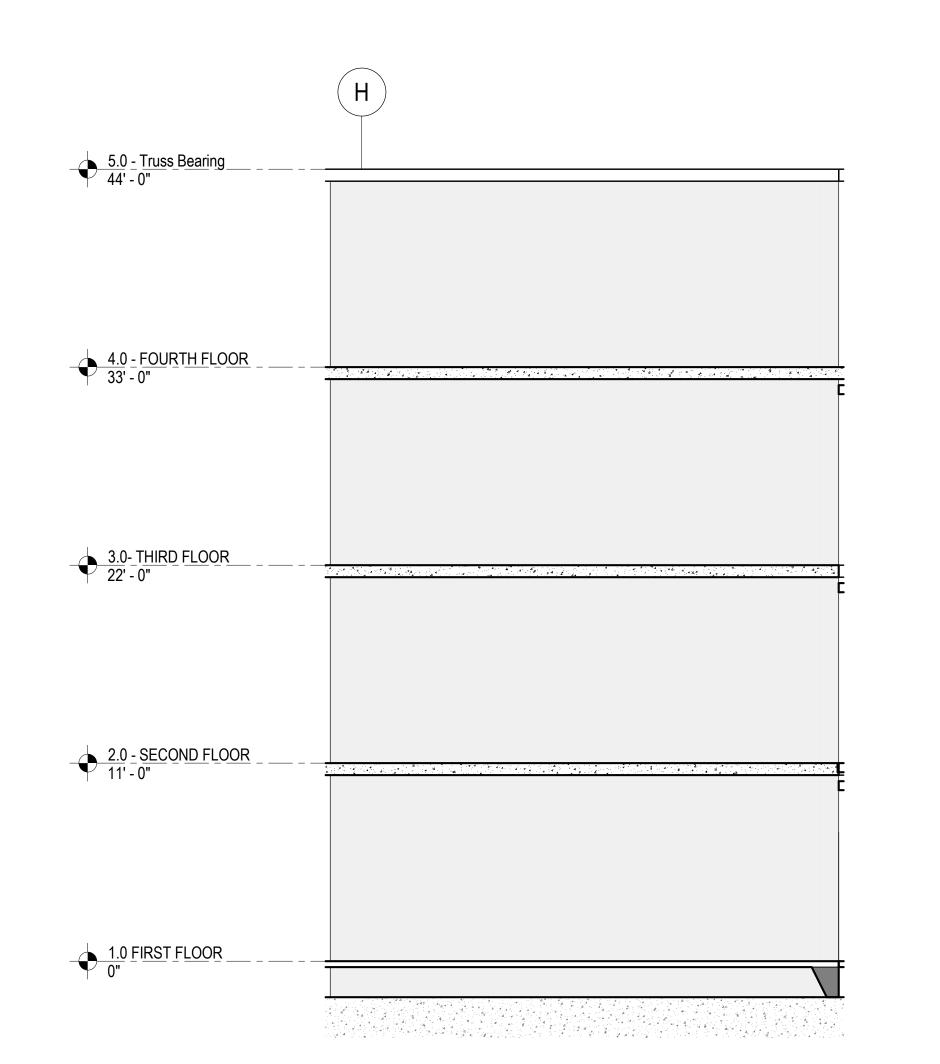
S2-E

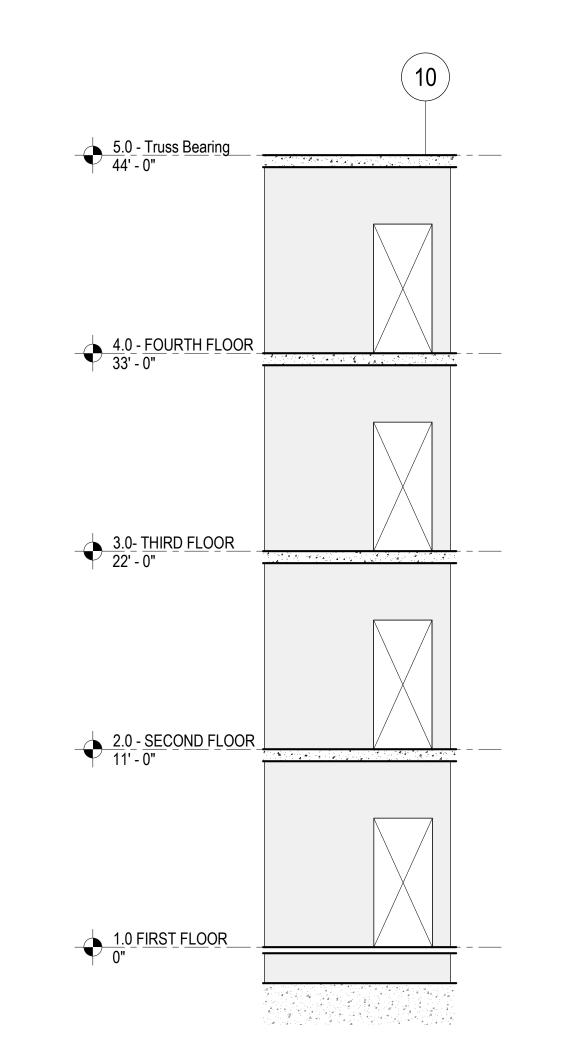
S-321

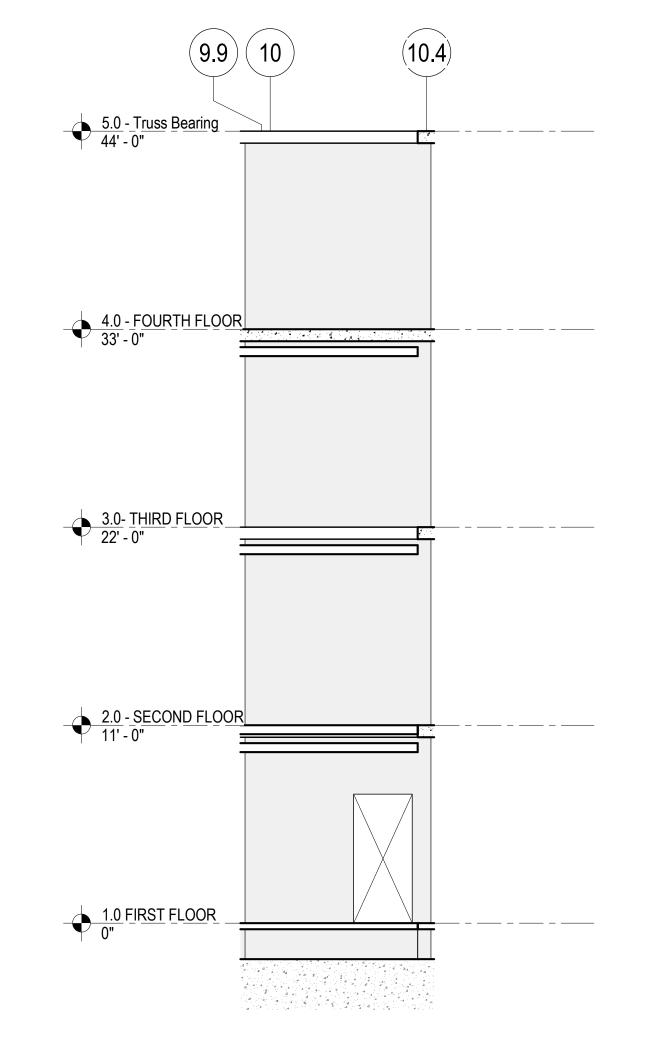
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SHEAR WALL ELEVATION NOTES:

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 HORIZOTAL REINFORCEMENT (5H12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE ON THIS SHEET)

CB##: DENOTES COUPLING BEA, MARK (SEE SCHEDULE ON THIS SHEET)

4. WHERE NOT SPECIICALLU 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.

GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEA, OF DISCREPANCIES.

TYPICAL VERTICAL REINFORCING BAR SPACING

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

VERTICAL END REINFORCING MARK BAR SIZE

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

STAIR 2 WEST WALL ELEVATION S-322 3/16" = 1'-0"

STAIR 2 NORTH WALL ELEVATION S-322 3/16" = 1'-0"





09

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CONCRETE **SHEAR WALL ELEVATIONS -AREA A**

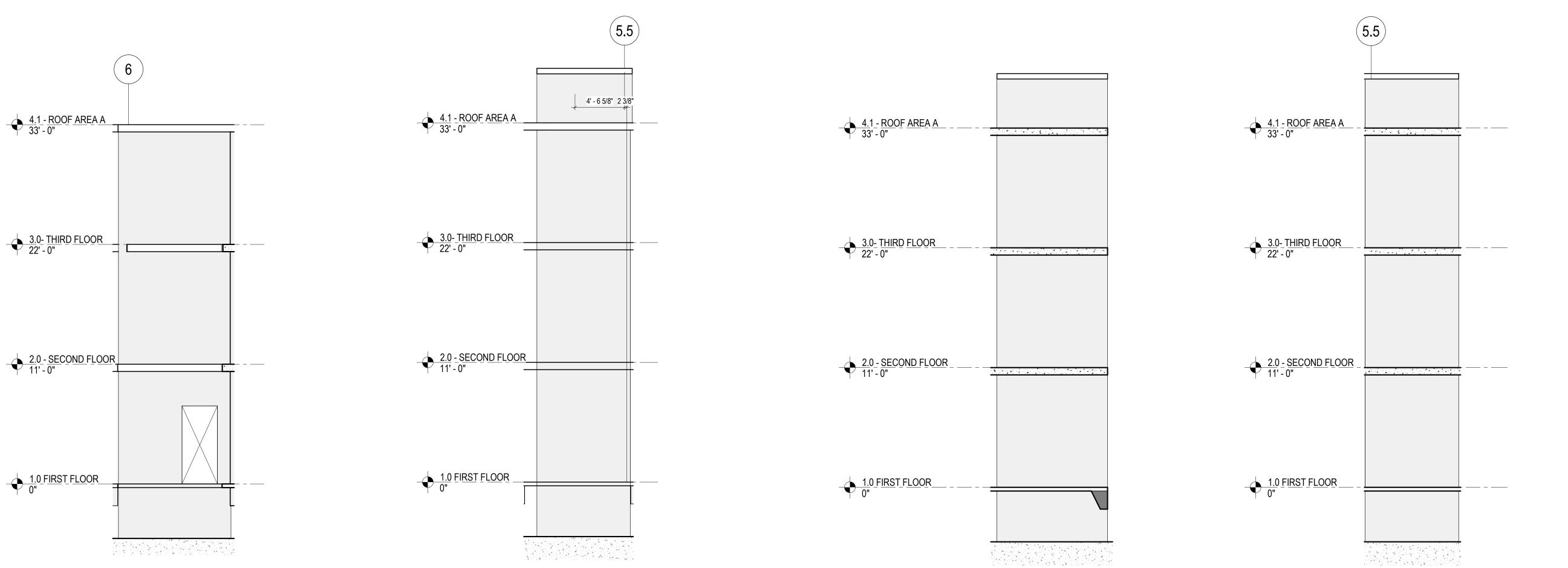
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S-323

STAIR 3 SOUTH WALL ELEVATION S-323 3/16" = 1'-0"

ELEVATOR 3 SOUTH WALL ELEVATION E3-S S-323 3/16" = 1'-0"

ELEVATOR 3 WEST WALL ELEVATION E3-W S-323 3/16" = 1'-0"

E3-N ELEVA S-323 3/16" = 1'-0" **ELEVATOR 3 NORTH WALL ELEVATION**

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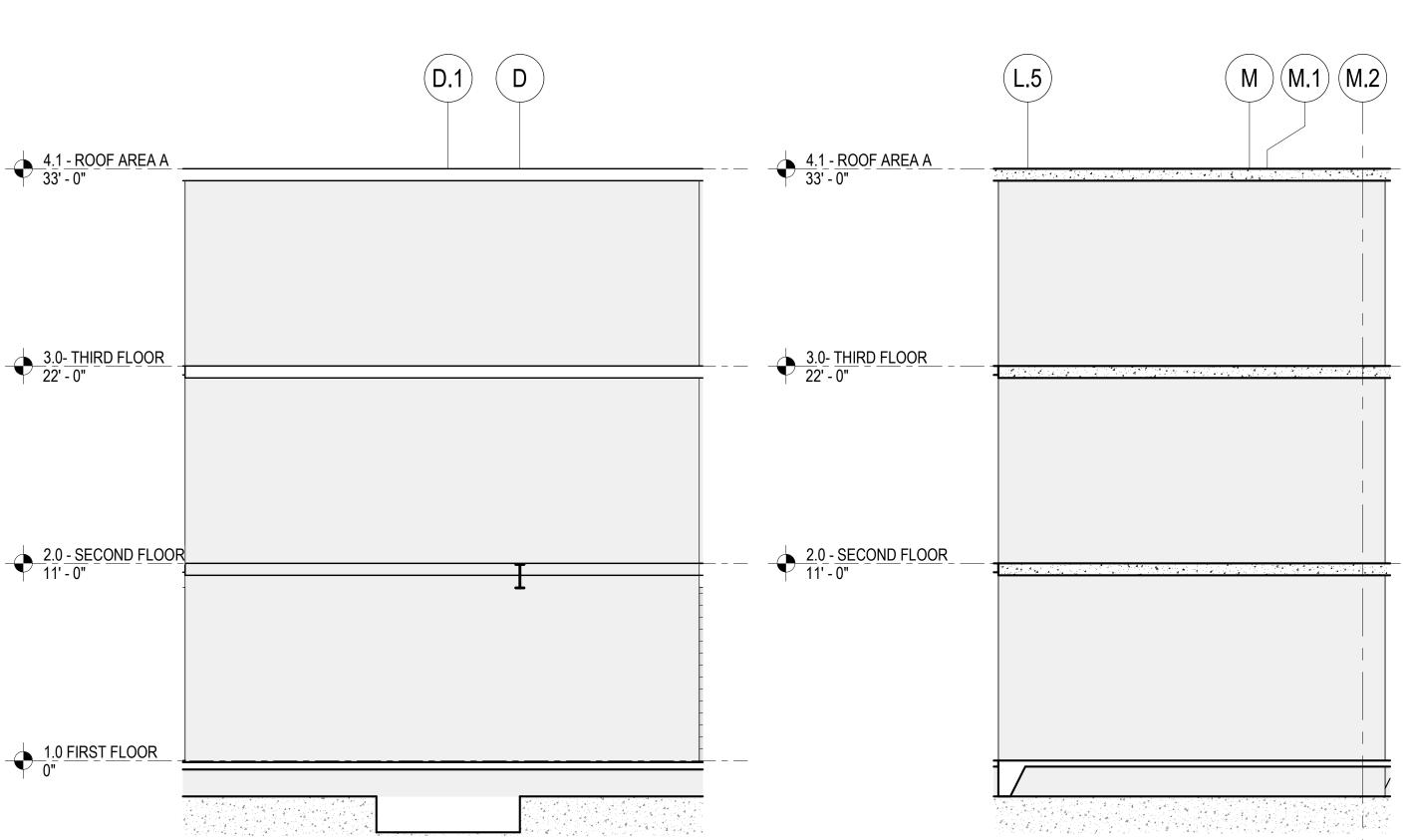
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CONCRETE **SHEAR WALL ELEVATIONS -AREA B**





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S-324/

WALL ELEVATION A

S-324

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



601

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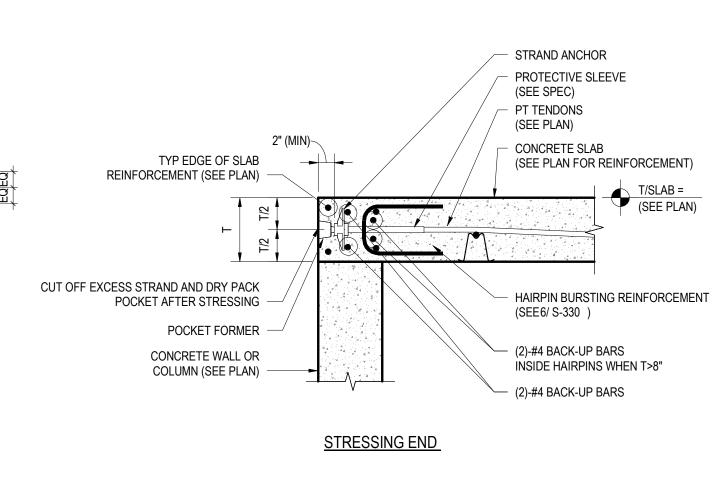
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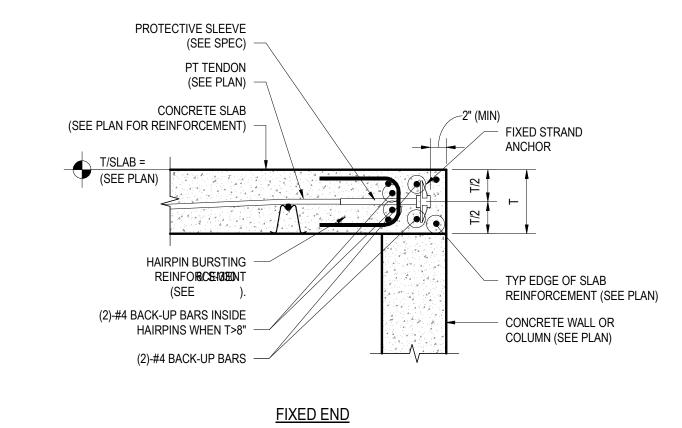
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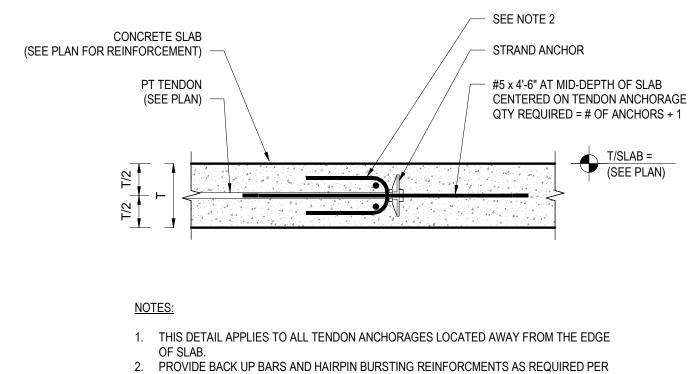
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CONCRETE **SHEAR WALL ELEVATIONS -AREA B**

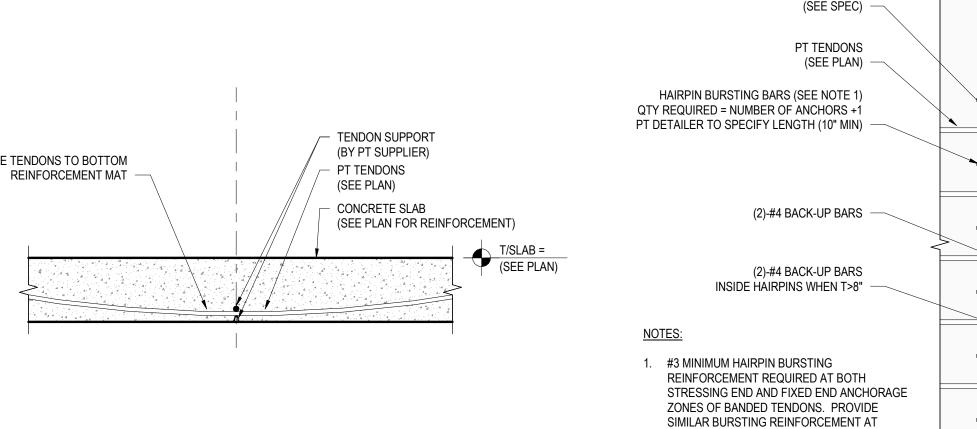
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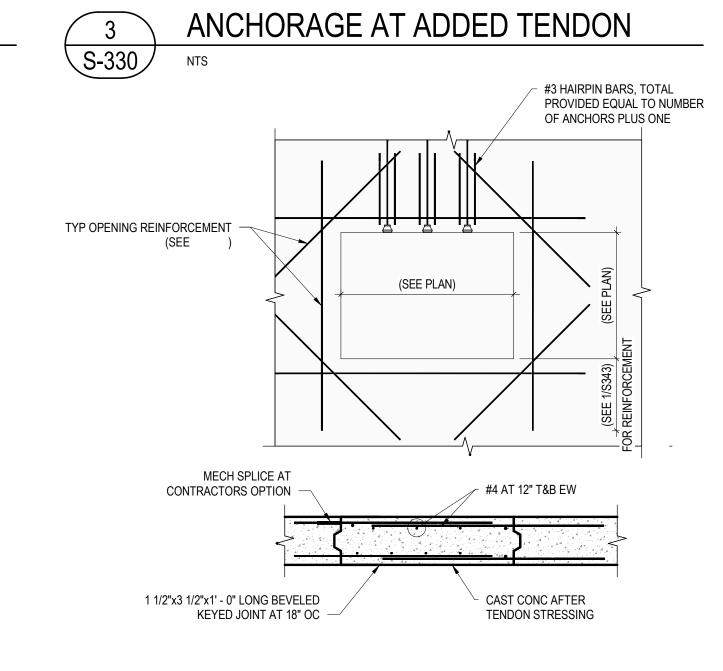


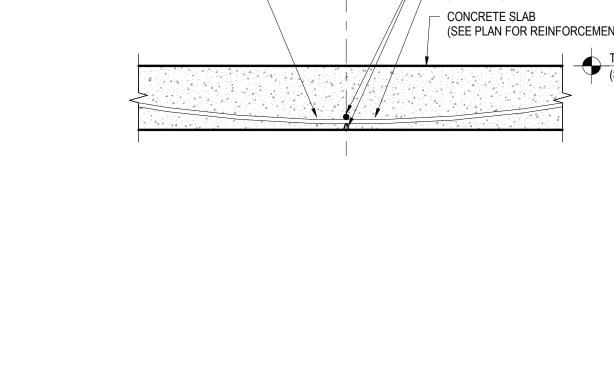












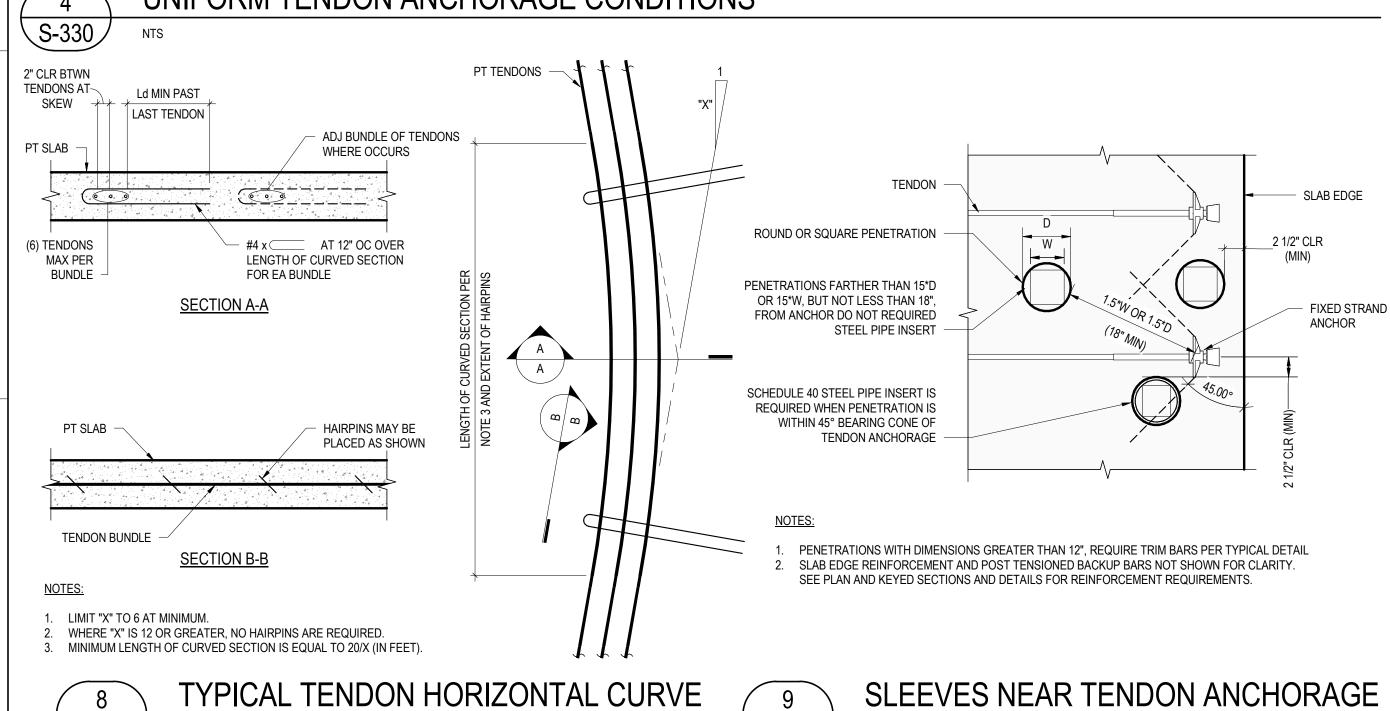
S-330/



UNIFORM TENDON BUNDLES CONTAINING (6)

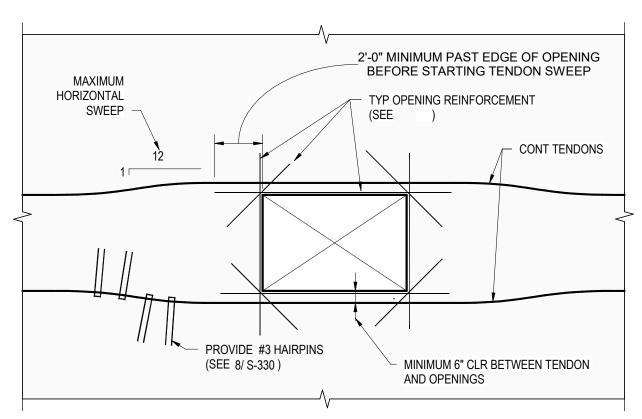
PROTECTIVE SLEEVE





S-330

1" = 1'-0"







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> **TYPICAL PT TENDON DETAILS**

S-330

3/4" = 1'-0"

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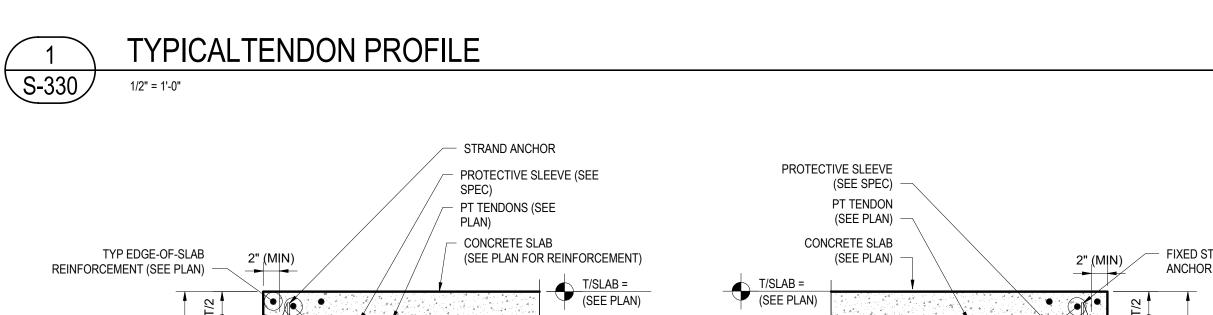
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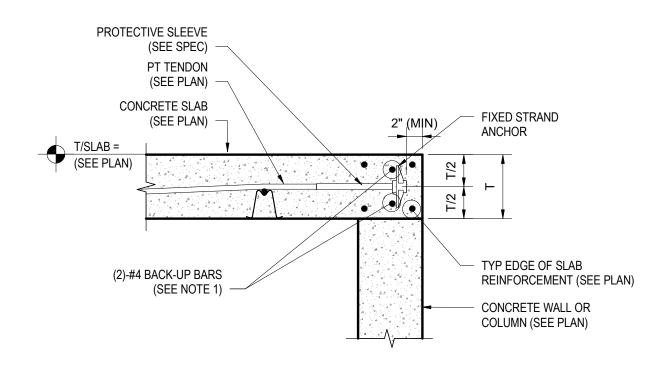
TYPICAL UNIFORM/BANDED TENDON FIXED END DETAILS.

TYPICAL EDGE OF

REINFORCEMENT (SEE PLAN)

SLAB





INTERIOR SPAN

€ SUPPORT

→ → POINT

CANTILEVER SPAN

INFLECTION POINT

0.1 * L2

SUPPORT

DO NOT TIE TENDONS TO BOTTOM

OR MORE TENDONS. PT TENDON LOW POINT - SECTION

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TYPICAL PT REINFORCEMENT **DETAILS**

MATERIAL SPECIFICATIONS.

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\S-331/

€ SUPPORT

TYPICAL ELEVATED SLAB EDGE REINFORCEMENT CONCEPTUAL PLAN

1. THIS PLAN IS CONCEPTUAL. SEE PLAN FOR ACTUAL DIMESIONS AND ARRANGEMENT OF STRUCTURAL ELEMENTS.

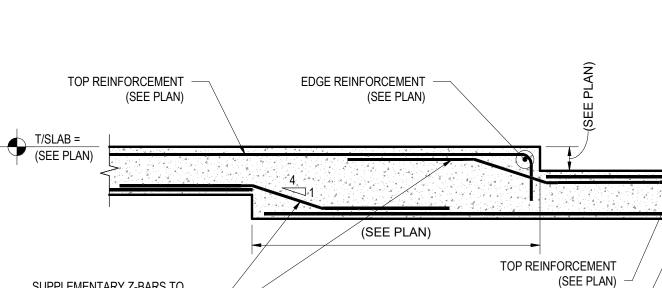
3. SEE PLAN AND KEYED SECTIONS AND DETAILS FOR ADDITIONAL REINFORCEMENT NOT SHOWN IN THIS PLAN.

2. EDGE REINFORCEMENT SHALL BE CONTINUOUS AND SHALL BE LAP SPLICED AS NECESSARY.

€ SUPPORT

€ SUPPORT

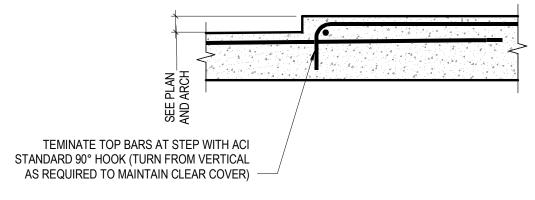
(MAX) B (MAX)



BOTTOM REINFORCEMENT

(SEE PLAN)



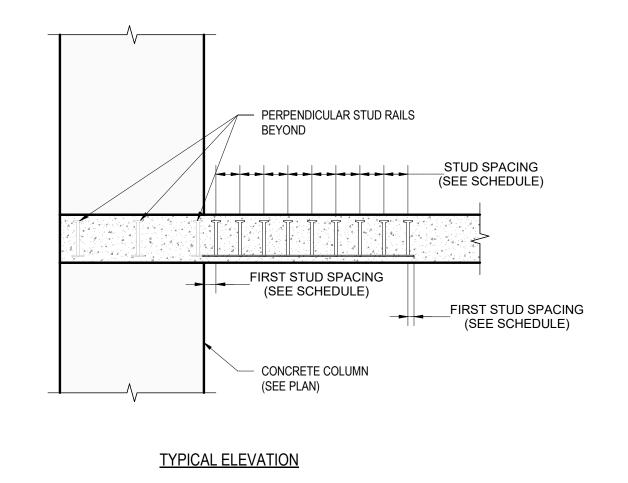


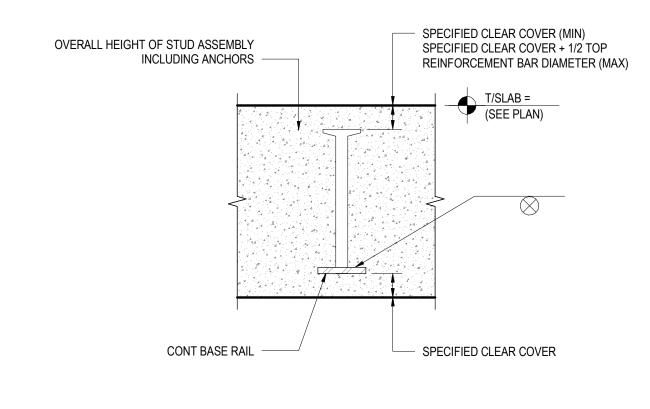
REBAR TRANSITION AT SLAB STEP

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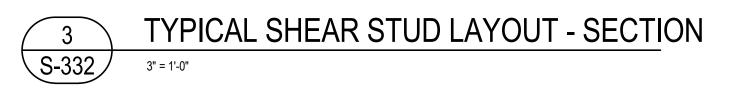


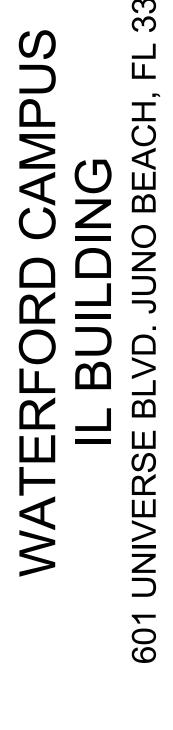


TYPICAL STUD RAIL SECTION

TYPICAL SHEAR STUD RAIL CONFIGURATIONS - PLAN S-332 3/8" = 1'-0"

TYPICAL SHEAR STUD RAIL LAYOUT -**ELEVATION** S-332 3/4" = 1'-0"





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NO. DATE DESCRIPTION



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TYPICAL PT SHEAR STUD **RAILS DETAILS**

SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND

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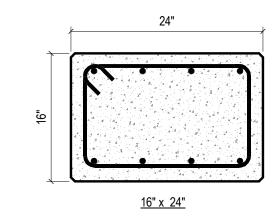
GROUP

MATERIAL SPECIFICATIONS.

12" x 12"

S-340/

1" = 1'-0"



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

 CONCRETE SLAB (SEE PLAN) B/SLAB (SEE PLAN) CONCRETE COLUMN (SEE PLAN)

TOP-OF-COLUMN POURED BELOW BOTTOM-OF-SLAB CONCRETE SLAB (SEE PLAN) CHIP TOP-OF-COLUMN FLUSH WITH BOTTOM OF SLAB

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

TOLERANCE

S-340

ABOVE, VERTICAL COLUMN REINFORCEMENT SHALL TERMINATE IN SLAB WITH STANDARD 90° HOOK U-BAR STIRRUPS @ 6" OC OVER COLUMN WIDTH -(SEE NOTE 2) TOP LAYER OF BEAM REINFORCEMENT (SEE SCHEDULE) T/SLAB (SEE PLAN) BOTTOM LAYER OF BEAM REINFORCEMENT (SEE SCHEDULE) CONCRETE COLUMN (SEE SCHEDULE)

- WHEN COLUMN DOES NOT CONTINUE

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.

TOP-OF-COLUMN AT BEAM S-340

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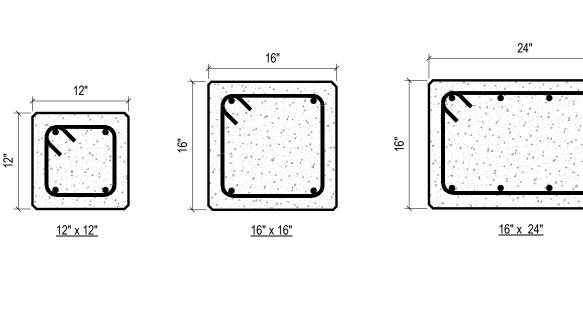
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> **TYPICAL** CONCRETE COLUMN **DETAILS**

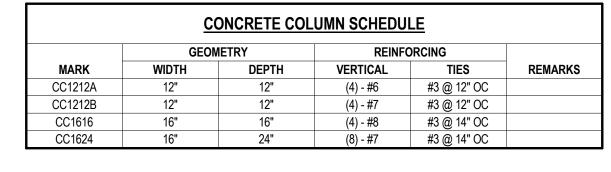


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COLUMN PLAN DETAILS

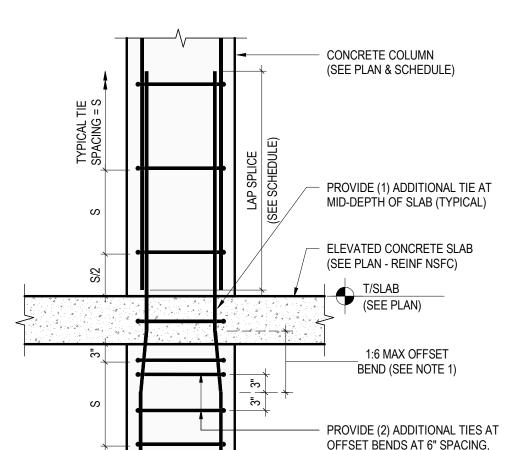


CONCRETE COLUMN AT ROOF S-340 3/4" = 1'-0"

NOTES:

1. ADDITIONAL TIE WITHIN SLAB DEPTH NOT REQUIRED WHEN A BOTTOM MAT OF SLAB REINFORCEMENT

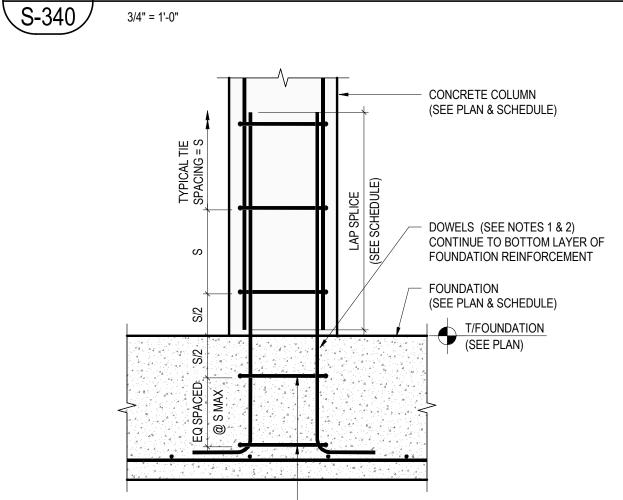
IS PRESENT AT COLUMN LOCATION



CENTERED ON BEND AS SHOWN

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

CONCRETE COLUMN AT SLAB



PROVIDE ADDITIONAL TIES THROUGH FOUNDATION DEPTH NOTES:

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

CONCRETE COLUMN AT FOUNDATION S-340 3/4" = 1'-0"

> SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND

8/25/2025 1:55:56 AM

MATERIAL SPECIFICATIONS.

B/SLAB (SEE PLAN) CONCRETE COLUMN (SEE PLAN) TOP-OF-COLUMN POURED ABOVE BOTTOM-OF-SLAB STRENGTH EQUAL TO THE REQUIRED COLUMN STRENGTH. TOP-OF-COLUMN ELEVATION



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TYPICAL CONCRETE **BEAM DETAILS**

KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE 8/25/2025 1:55:57 AM

SUPPORT LEFT END

LONG TOP BARS (SEE SCHED)

SHORT TOP BARS

(SEE SCHED)

(SEE SCHED)

SHORT BOT BARS

(SEE SCHED)

TYPICAL CONCRETE BEAM ELEVATION

T/BEAM =
(SEE PLAN)

EXTEND TOP BARS INTO SLAB —

ACI STANDARD 90° HOOK UNLESS

BARS CANNOT EXTEND INTO SLAB —

ACI STANDARD 90°

HOOK AT SIDE BARS —

3/4" = 1'-0"

NOTED OTHERWISE AS HEADED OR

MECHANICAL ANCHOR ONLY WHERE

S-350

END SPAN

SCHEDULED STIRRUPS

LAP SPLICE

LAP SPLICE

€ SPAN

(SEE SCHED)

RIGHT END

LONG TOP BARS

(SEE SCHED)

SIDE BARS (SEE TYP

FACE OF BEAM BEYOND

BEAM SECTION)

WHERE APPLICABLE

(SEE NOTES 1 & 2) -

NOTES:

SUPPORT LEFT END

LAP SPLICE

(SEE SCHED)

3" FROM FACE OF

SUPPORT TO FIRST

STIRRUP (TYP)

CENTER ON SUPPORT

FACE OF COLUMN OR

WALL WHERE

APPLICABLE

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.

1. ELEVATION AS SHOWN REPRESENTS STIRRUP ARRANGEMENT AT COLUMN SUPPORTS.

SHORT TOP BARS

UNO ON SCHED

RIGHT END

LONG TOP BARS

SHORT TOP BARS

(SEE SCHED)

(SEE SCHED)

(SEE SCHED)

SHORT BOT BARS

UNO ON SCHED

CENTER AT MIDSPAN

INTERIOR SPAN

SCHEDULED STRRUPS

LAP SPLICE

(SEE SCHED)

€ SPAN

€ SUPPORT

LAP SPLICE

(SEE SCHED)

CANTILEVER SPAN

SCHEDULED

STIRRUPS

LONG BOT BARS

SIDE BARS (SEE

TYP BEAM SCHED)

(SEE SCHED)

T9 CAP TIE (90° HOOK AT SLAB SIDE)

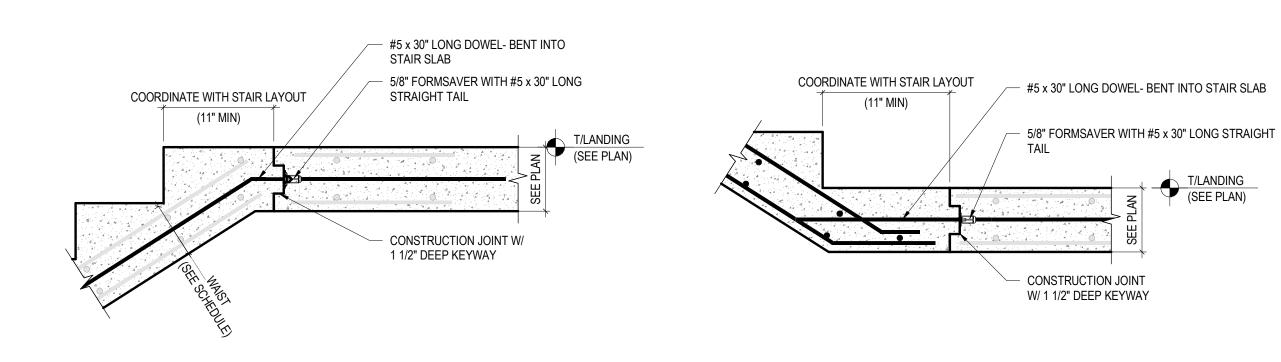
ACI STANDARD 90° HOOK UNLESS NOTED OTHERWISE AS HEADED OR MECHANICAL ANCHOR

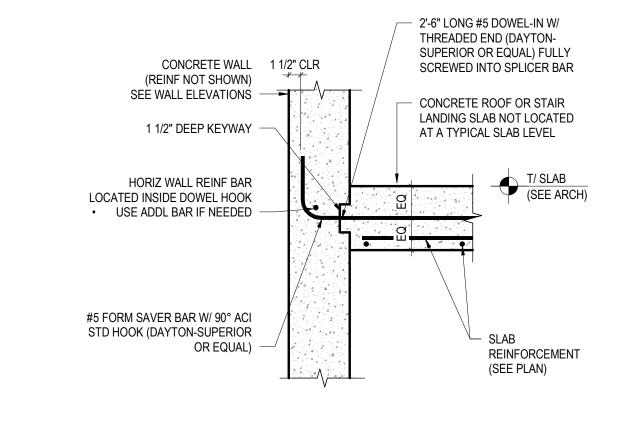
2x U-BARS

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\S-360/

INTERMEDIATE SLAB ATTACHMENT 1" = 1'-0"

TYPICAL CAST-IN-PLACE CONCRETE STAIR DETAILS S-360

SEE OVERALL SECTION

FOR TRANSVERSE VS

LONGITUDINAL

TRANSVERSE

#5 AT 8" OC T&B

#5 AT 8" OC T&B

(6) - #5 T&B

#5 AT 18" OC T&B

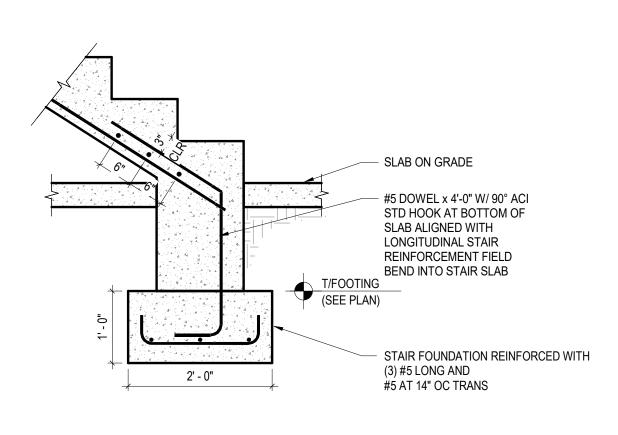
#5 AT 18" OC T&B

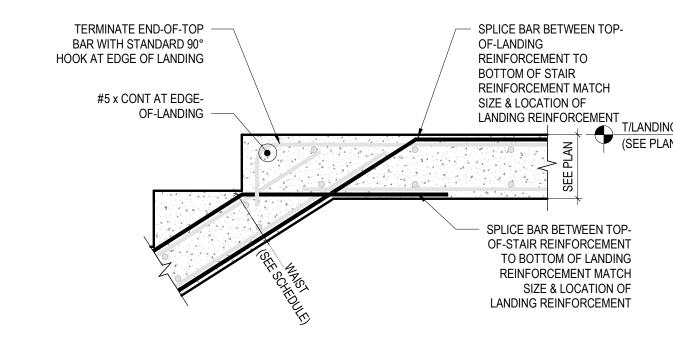
LANDING

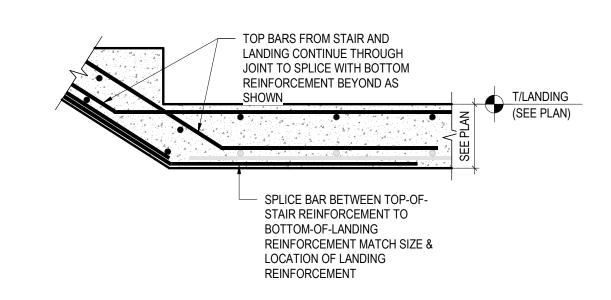
L-SHAPED

STAIR DOWN TRANSITION AT LANDING S-360

STAIR UP TRANSITION AT LANDING S-360







CONCRETE STAIR AT FOUNDATION S-360 3/4" = 1'-0"

STAIR DOWN TRANSITION AT MIDHEIGHT S-360 1" = 1'-0"

STAIR UP TRANSITION AT MIDHEIGHT S-360 1" = 1'-0"



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> CONCRETE **STAIR DETAILS**

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MATERIAL SPECIFICATIONS.

S-370

3/4" = 1'-0"

TYPICAL BALCONY FRAMING

S-370

3/4" = 1'-0"

NO WALL ABOVE

TYPICAL EDGE-OF-SLAB

WATERFORD CAMPUS
IL BUILDING
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TYPICAL CONCRETE FRAMING DETAILS

S-370

APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

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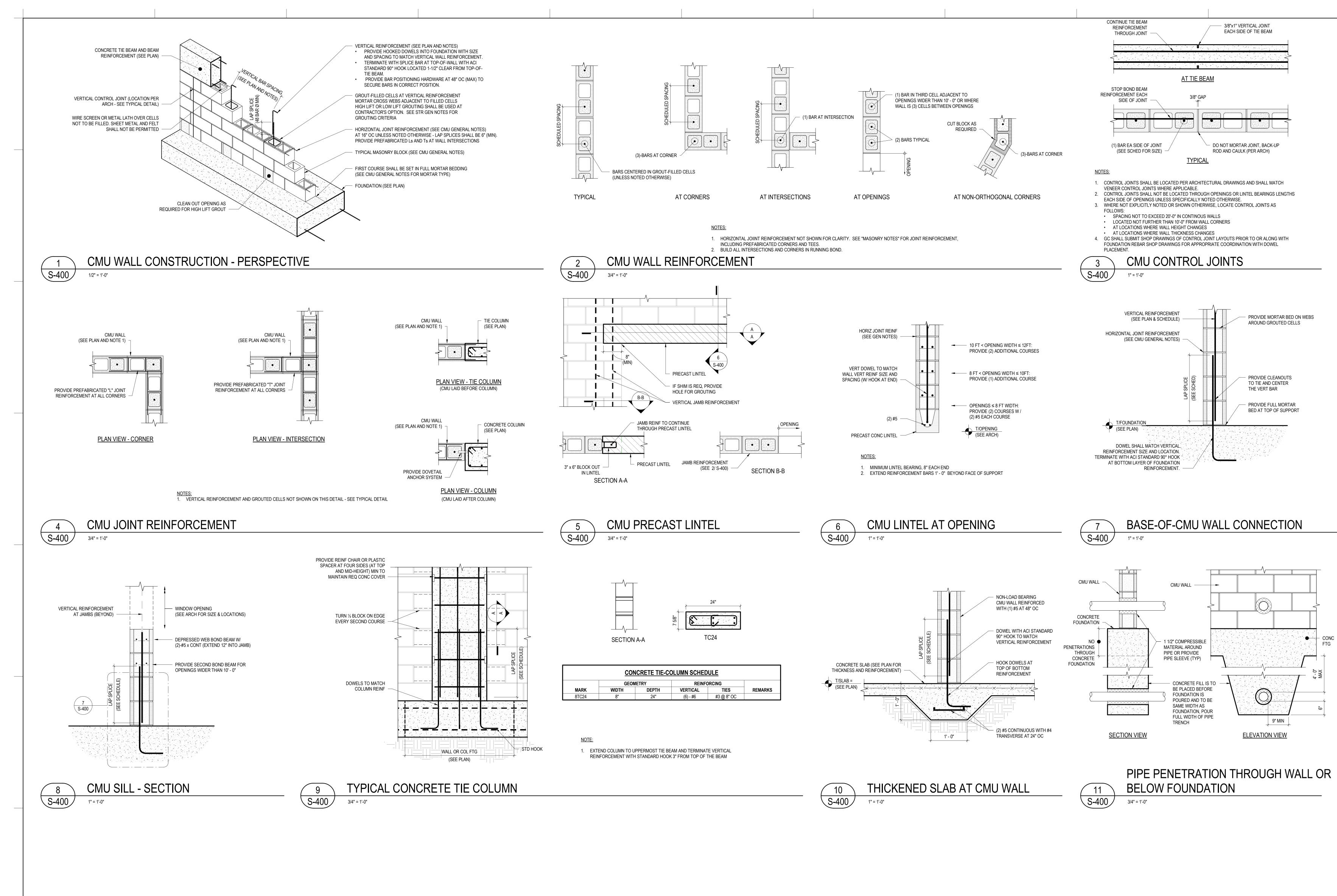
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TYPICAL

MASONRY

DETAILS

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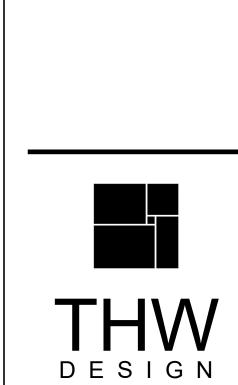
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> STEEL **FRAMING DETAILS**

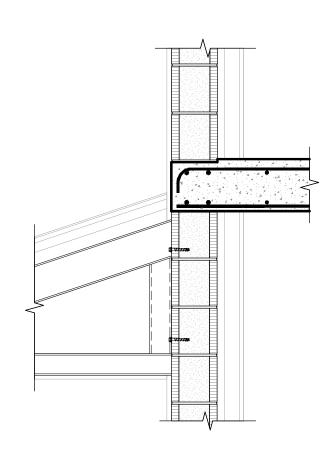
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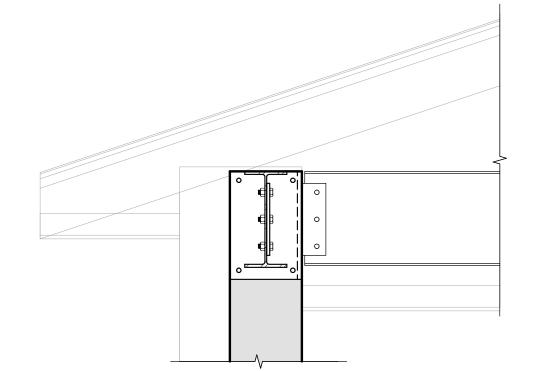
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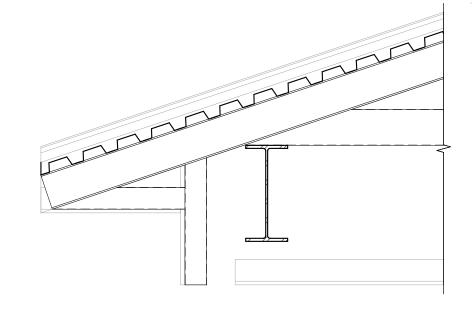
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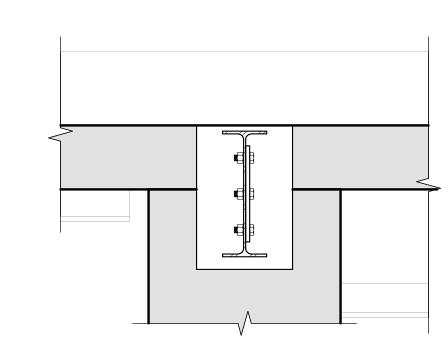
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S-600

CFS ROOF TRUSS CONNECTION TO SLAB 2 AREA B CANOPY CONNECTION

1" = 1'-0" AREA B CANOPY CONNECTION

3/4" = 1'-0"

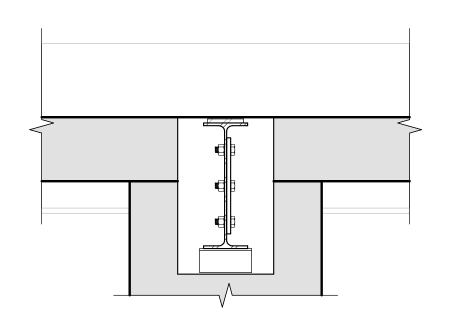
3 PAR S-600 3/4" = 1'-0"

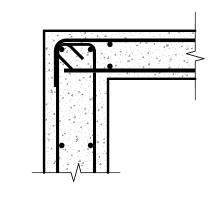
STEEL BEAM TO COLUMN CONNECTION AT
PARKING ROOF

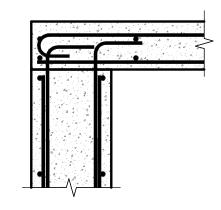
3/4" = 1'-0"

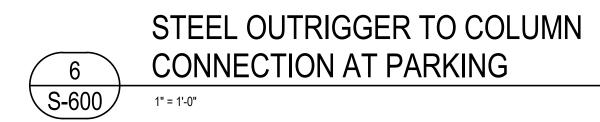
CFS ROOF TRUSS TO STEEL BEAM
CONNECTION AT PARKING ROOF
3/4" = 1'-0"

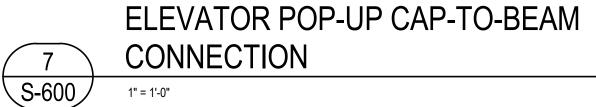
STEEL BEAM TO TIE COLUMN
CONNECTION AT PARKING
1" = 1'-0"















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ROOF FRAMING DETAILS

S-600

todesk Docs://The Waterford (Stage 2)/2021009_WCR_IL-BLDG_STF

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