Attachment A

Design Concept Drawings

The drawings provided in this attachment are conceptual in nature only, and do not necessarily represent the final design of the project. ECPCAA reserves the right to make any changes it deems necessary in its sole judgement concerning the final design, including size, amenities, building systems and other features, which will be determined during the remaining design phase and partly based upon available budget.

ELIZABETH CITY
REGIONAL AIRPORT

Elizabeth City Regional Airport Terminal Building

Consolidated Rd

Elizabeth City, NC 27909

Issue Date
023-031

LIST OF DRAWINGS

LINDSEY
ARCHITECTURE
324 S. Elm Street, Suite 500
Greensboro, NC 27401

ABV.	ABOVE	F.B.	FACE BRICK	POLY ISO	POLYMERIC ISOMER
A.F.F.	ABOVE FINISHED FLOOR	F.O.C.	FACE OF CONCRETE	PR.	PAIR
ACT.	ACOUSTICAL CEILING TILE	F.O.F.	FACE OF FINISH	PTD.	PAINT(ED)
AC.PL.	ACOUSTICAL PLASTER	F.O.M.	FACE OF MASONRY	P.B.	PANIC BAR
ADD.	ADDENDUM	F.O.S.	FACE OF STUDS	PAR.	PARALLEL
ADH.	ADHESIVE	FGL.	FIBERGLASS	P.BD.	PARTICLE BOARD
ADJ.	ADJACENT	FD.	FIELD DETERMINE	PTN.	PARTITION
ADJT.	ADJUSTABLE	FIN.	FINISH(ED)	PVMT.	PAVEMENT
AGG.	AGGREGATE	F.F.	FINISH FLOOR	PED.	PEDESTAL
A/C	AIR CONDITIONING	F.A.	FIRE ALARM	PERF.	PERFORATE(D)
ALT.	ALTERNATE	F.C.	FIRE CODE	PERIM.	PERIMETER
ALUM.	ALUMINUM	F.E.	FIRE EXTINGUISHER	PLAS.	PLASTER
A.B.	ANCHOR BOLT	F.E.C.	FIRE EXTINGUISHER CAB.	P'LAM.	PLASTIC LAMINATE
ANOD.	ANODIZED	F.H.C.	FIRE HOSE CABINET	PL.	PLATE
APPX	APPROXIMATELY	FPL.	FIREPLACE	PLY.	PLYWOOD
ARCH.	ARCHITECT(URAL)	FP	FIREPROOF	PT.	POINT
A.D.	AREA DRAIN	F.R.T.	FIRE-RETARDANT	P.V.C.	POLYVINYL CHLORIDE
ASB.	ASBESTOS	FLG.	FLASHING	P.C.F.	POUNDS PER CUBIC FOOT
ASPH.	ASPHALT	FLX.	FLEXIBLE	P.L.FT.	POUNDS PER LINEAL FOOT
A.T.	ASPHALT TILE	FLR.	FLOOR(ING)	P.S.F.	POUNDS PER SQUARE FOOT
AUTO.	AUTOMATIC	F.D.	FLOOR DRAIN	P.S.I.	POUNDS PER SQUARE INCH
		FLOUR.	FLUORESCENT	PC.	PRE CAST
BSMT.	BASEMENT	F.JT.	FLUSH JOINT	PFB.	PREFABRICATE(D)
BM.	BEAM	FT.	FOOT (FEET)	PFN.	PRE FINISHED
BRG.	BEARING	FTG.	FOOTING	P.L.	PROPERTY LINE
BJT.	BED JOINT	FOUND.	FOUNDATION		
BET.	BETWEEN	FR.	FRAME(D), (ING)	Q.T.	QUARRY TILE
BIT.	BITUMINOUS	FR.A.	FRESH AIR	QTY.	QUANTITY
BLK.	BLOCK	F.S.	FULL SIZE		
BLKG.	BLOCKING	FUR.	FURREDING)	RAD.	RADIATION
BD.	BOARD	FUT.	FUTURE	R.	RADIUS
B.S.	BOTH SIDES			R.W.L.	RAINWATER LEADER
B.W.	BOTH WAYS	GA.	GAUGE	REF.	REFERENCE
BOT.	BOTTOM	GALV.	GALVANIZED	RFL.	REFLECT(ED.) (IVE), (OR)
BRK.	BRICK	G.C.	GENERAL CONTRACT(OR)	REFR.	REFRIGERATOR
BRZ.	BRONZE	GL.	GLASS, GLAZING	REG.	REGISTER
BLDG.	BUILDING	GL.B.	GLASS BLOCK	R.C.P.	REINFORCED CONCRETE PIPE
B.U.R.	BUILT UP ROOFING	G.C.M.U.	GLAZED CONCRETE MASONRY UNITS	REM.	REMOVE
				REQ'D.	REQUIRED
CAB.	CABINET	G.S.T.	GLAZED STRUCTURAL TILE	RES.	RESILIENT
C.H.	CABINET HEATER	G.B.	GRAB BAR	R.A.	RETURN AIR
CPT.	CARPET(ED)	GD.	GRADE, GRADING	REV.	REVISION(S), REVISED
C.O.	CASED OPENING	GRN.	GRANITE	R.H.	RIGHT HAND
CSMT.	CASEMENT	GND.	GROUND	R.O.W.	RIGHT OF WAY
C.I.	CAST IRON	G.F.	GROUND FACE	R	RISER
C.B.	CATCH BASIN	GYP.	GYPSUM	R.D.	ROOF DRAIN
CLKG.	CAULKING	GWB.	GYPSUM WALL BOARD	RF.H.	ROOF HATCH
CLG.	CEILING			RFG.	ROOFING
CEM.	CEMENT	H/C.	HANDICAPPED	RM.	ROOM
CTR.	CENTER	HDW.	HARDWARE	R.O.	ROUGH OPENING
CER.	CERAMIC	HWD.	HARDWOOD		
C.T.	CERAMIC TILE	HDR.	HEADER	SF.GL.	SAFETY GLASS
CHBD.	CHALKBOARD	HTG.	HEATING	SCHED.	SCHEDULE
CIRC.	CIRCUMFERENCE	H.V.A.C.	HEATING/VENTILATING/ AIR CONDITIONING	SECT.	SECTION
CLR.	CLEAR(ANCE)			SHTHG.	SHEATHING
CL.	CLOSET	H.D.	HEAVY DUTY	SHT.	SHEET
CLS.	CLOSURE	HGT.	HEIGHT	SHELV.	SHELVING
C.R.	COLD ROLLED	H.C.	HOLLOW CORE	SIM.	SIMILAR
C.W.	COLD WATER	H.M.	HOLLOW METAL	SKYLT.	SKYLIGHT
COL.	COLUMN	HOR.	HORIZONTAL	SL.	SLEEVE
COMB.	COMBINATION	H.B.	HOSE BIB	S.C.	SOLID CORE
COMPO.	COMPOSITION (COMPOSITE)	H.W.H.	HOT WATER HEATER	SP.	SOUNDPROOF
COMP.	COMPRESS(ED)(ION)(IBLE)	HR.	HOUR	SPK.	SPEAKER
CONC.	CONCRETE			SPEC.	SPECIFICATION(S)
C.M.U.	CONCRETE MASONRY UNIT	INCL.	INCLUDE(D), (ING)	SQ.	SQUARE
CX.	CONNECTION	I.D.	INSIDE DIAMETER	S.F.	SQUARE FOOT (FEET)
CONST.	CONSTRUCTION	I.F.	INSIDE FACE	S.S.	STAINLESS STEEL
CONT.	CONTINUOUS OR CONTINUE	INSUL.	INSULATE(D), (ING)	STD.	STANDARD
CONTR.	CONTRACT(OR)	INT.	INTERIOR	STA.	STATION
C.L.L.	CONTRACT LIMIT LINE	INV.	INVERT	STL.	STEEL
C.J.	CONTROL JOINT			STOR.	STORAGE
C.P.	CONTROL PANEL	JAN.	JANITOR	S.D.	STORM DRAIN
CONV.	CONVECTOR	JT.	JOINT	STR.	STRUCTURE
CPR.	COPPER			STRL.	STRUCTURAL
C.G.	CORNER GUARD	KPL.	KICK PLATE	S.C.T.	STRUCTURAL CLAY TILE
CORR.	CORRUGATED	K.O.	KNOCKOUT	SUSP.	SUSPENDED
CTR.	COUNTER			SYM.	SYMMETRY (ICAL)
CFL.	COUNTER FLASHING	LBL.	LABEL	SYN.	SYNTHETIC
CS.	COUNTERSINK	LAM.	LAMINATE(D)	SYS.	SYSTEM
CRS.	COURSE(S)	LAV.	LAVATORY		
CR.G.	CROSS GRAIN	L.H.	LEFT HAND	TK.BD.	TACK BOARD
C.FT.	CUBIC FOOT	LTG.	LIGHTING	TKS.	TACK STRIP
C.YD.	CUBIC YARD	LW.	LIGHTWEIGHT	TEL.	TELEPHONE
		LTL.	LINTEL	T.V.	TELEVISION
DPR.	DAMPER	L.L.	LIVE LOAD	TEMP.	TEMPORARY, TEMPERED
DP.	DAMPROOFING	LVR.	LOUVER	T.C.	TERRA COTTA
D.L.	DEAD LOAD			TZ.	TERRAZZO
DEMO.	DEMOLISH, DEMOLITION	MH.	MANHOLE	THK.	THICK(NESS)
DEP.	DEPRESSED	MFR.	MANUFACTURE(ER)	THR.	THRESHOLD
DET.	DETERMINE	MRB.	MARBLE	T.PTN.	TOILET PARTITION
DTL.	DETAIL	MAS.	MASONRY	T&G	TONGUE AND GROOVE
DIAG.	DIAGONAL	M.O.	MASONRY OPENING	T.O.F.	TOP OF FOUNDATION
DIA.	DIAMETER	MAT'L.	MATERIAL	T.O.M.	TOP OF MASONRY
DIM.	DIMENSION	MAX.	MAXIMUM	T.O.SL.	TOP OF SLAB
DPR.	DISPENSER	MECH.	MECHANIC(AL)	T.O.S.	TOP OF STEEL
DIV.	DIVISION	MED.	MEDIUM	T.O.W.	TOP OF WALL
DR.	DOOR	MBR.	MEMBER	TPO	THERMOPLASTIC POLYOLEFIN
D.H.	DOUBLE HUNG	MMB.	MEMBRANE	T.B.	TOWEL BAR
DS.	DOWN SPOUT	MTL.	METAL	T	TREAD
D.	DRAIN	MWK.	MILLWORK	TYP.	TYPICAL
D.T.	DRAIN TILE	MIN.	MINIMUM		
DWG.	DRAWING	MIR.	MIRROR	UC.	UNDERCUT
D.F.	DRINKING FOUNTAIN	MISC.	MISCELLANEOUS	UNF.	UNFINISHED
DW.	DUMBWAITER	MLD.	MOLDING	U.N.O.	UNLESS NOTED OTHERWISE
		M.R.	MOP RECEPTOR	U.S.	UNDERSIDE
EA.	EACH	MTD.	MOUNTI(ED), (ING)		
E.F.	EACH FACE	MOV.	MOVABLE	V.B.	VAPOR BARRIER
ELEC.	ELECTRIC(AL)	MULL.	MULLION	VER.	VERIFY
E.P.	ELECTRICAL PANEL BOARD			VERT.	VERTICAL
E.W.C.	ELECTRIC WATER COOLER	NAT.	NATURAL	V.G.	VERTICAL GRAIN
ELEV.	ELEVATION	N.R.C.	NOISE REDUCTION COEFFICIENT	VIN.	VINYL
EMER.	EMERGENCY			V.C.T.	VINYL COMPOSITION TILE
ENC.	ENCLOSE(URE)	NOM.	NOMINAL	V.B.	VINYL BASE
EQ.	EQUAL	N.I.C.	NOT IN CONTRACT	V.T.	VINYL TILE
EQUIP.	EQUIPMENT	N.T.S.	NOT TO SCALE	V.W.C.	VINYL WALL COVERING
EST.	ESTIMATE	NO.	NUMBER	V.I.F.	VERIFY IN FIELD
EXH.	EXHAUST				
EXIST.	EXISTING	OBS.	OBSCURE	WSCT.	WAINSCOT
E.B.	EXPANSION BOLT	O.C.	ON CENTER(S)	W.C.	WATER CLOSET
E.J.	EXPANSION JOINT	OP.	OPAQUE	WP.	WATERPROOFING
EXP.	EXPOSED	OPG.	OPENING	W.R.	WATER RESISTANT
EXT.	EXTERIOR	OPP.	OPPOSITE	W.S.	WATER STOP
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	O.D.	OUTSIDE DIAMETER	WT.	WEIGHT
		O.A.	OVERALL	W.W.F.	WELDED WIRE FABRIC
		O.H.	OVERHEAD	W/	WITH
		OZ.	OUNCE	W/O	WITHOUT
				WDW.	WINDOW
				W.G.	WIRED GLASS
				WD.	WOOD
				W.B.	WOOD BASE
				W.PT.	WORKING POINT

1 A0.1 ABBREVIATIONS

1. BUILDING CODES
ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH CURRENT APPLICABLE BUILDING CODE WITH LOCAL AMENDMENTS AND WITH ALL OTHER CODES, ORDINANCES AND REQUIREMENTS. IF THERE IS CONFLICT THE MORE STRINGENT SHALL BE USED.

2. ADDITIONAL STANDARDS
ALL WORK RELATING TO THIS CONSTRUCTION SHALL COMPLY WITH U.S. DEPARTMENT OF LABOR, THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS AND ALL RELATED APPLICABLE LOCAL BUILDING CODES AND ORDINANCES.

3. THE PROJECT DOCUMENTS
I) DO NOT SCALE DRAWINGS IN THE DOCUMENTS

II) DRAWINGS ARE IN PART DIAGRAMMATIC AND NOT NECESSARILY SHOW COMPLETE DETAILS OF CONSTRUCTION WORK OR MATERIALS, PERFORMANCE OR INSTALLATION. DRAWINGS DO NOT NECESSARILY SHOW HOW CONSTRUCTION DETAILS, OTHER ITEMS OR WORK AND EQUIPMENT MAY EFFECT A PARTICULAR INSTALLATION. CONTRACTOR TO PROVIDE ALL MATERIALS AND CONSTRUCTION AS IS REASONABLY INFERRED AND CUSTOMARY FOR THE WORK AND FINISHED PRODUCT SHOWN ON DRAWINGS.

III) DIMENSIONS
(I) INTERIOR DIMENSIONS ARE FROM FACE OF GWB TO FACE OF GWB UNLESS NOTED OTHERWISE.
(II) DOOR AND WINDOW DIMENSIONS ARE ROUGH OPENING/NOMINAL DIMENSIONS UNLESS NOTED OTHERWISE.
(III) ALL DIMENSIONS ARE TO BE FIELD VERIFIED AND BACK CHECKED FOR CORRECTNESS. IF ANY DEVIATION OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.

IV) THE PROJECT DOCUMENTS, INCLUDING PHYSICAL AND DIGITAL DOCUMENTS ARE THE PROPERTY OF LINDSEY ARCHITECTURE FOR USE SOLELY FOR THIS PROJECT AND SHALL NOT BE REPRODUCED, COPIED OR USED FOR OTHER PURPOSES WITHOUT WRITTEN PERMISSION OF LINDSEY ARCHITECTURE.

V) THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DOCUMENTS IS THE ARCHITECT OF RECORD FOR THIS PROJECT. NO OTHER PARTY MAY REVISE, ALTER OR DELETE THESE CONSTRUCTION DOCUMENTS. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS THE ARCHITECT OF RECORD AND LINDSEY ARCHITECTURE SHALL BE CONSIDERED THE SAME ENTITY.

V1) THE CONTRACTOR SHALL NOT ASSUME THAT DIGITAL FILES IN ANY OTHER FORMAT THAN PDF WILL BE MADE AVAILABLE DURING BIDDING OR AFTER AWARD. IF OTHER DIGITAL FILES OR FILE FORMAT ARE REQUESTED, LINDSEY ARCHITECTURE RESERVES THE RIGHT TO SELECTIVELY PROVIDE THEM, AND IF PROVIDED, PRESERVES THE RIGHT TO REQUIRE ADDITIONAL CONSIDERATION FOR THE TIME INCURRED TO PREPARE THEM FOR RELEASE.

4. PERSPECTIVE RENDERINGS AND PRESENTATION RENDERINGS
ALL PERSPECTIVE RENDERINGS AND PRESENTATION RENDERINGS ARE FOR REFERENCE ONLY AND NOT TO BE CONSTRUCTED FROM - THIS INCLUDES PERSPECTIVE RENDERINGS OR VIEWS THAT ARE INCLUDED IN THE CONSTRUCTION DRAWING SET.

5. CONTRACTOR DESIGNED
CONSTRUCTION METHODS AND MATERIALS NOT EXPLICITLY INDICATED OR IMPLIED ARE INTENDED TO BE CONTRACTOR DESIGNED. THE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ON THESE DOCUMENTS. ANY SUCH VARIATION SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK OR THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR THE COST TO RECTIFY THE WORK. UNLESS SPECIFICALLY CONTRACTED OTHERWISE, CONTRACTOR DESIGNED WORK IS INCLUDED IN THE BASE BID AND SCHEDULED FOR THE PROJECT.

6. CONTRACTOR REVIEW AND COORDINATION
I) THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DETAILS, AND NOTES FOR INFORMATION REGARDING THE SCOPE OF THE WORK INTENDED PRIOR TO PROCEEDING WITH THE WORK.

II) THE GENERAL CONTRACTORS SHALL COORDINATE ALL BUILDING MANAGEMENT SYSTEMS, SECURITY SYSTEMS, AND LOCKING HARDWARE WITH THE OWNER PRIOR TO INSULATION (SECURITY SYSTEMS EQUIPMENT FURNISHED BY OWNER. ALL CONDUIT BOXES BY ELECTRICAL SUBCONTRACTOR).

III) THE CONTRACTOR REPRESENTS AND WARRANTS THAT IT HAS EXAMINED THE PLANS, DRAWINGS, SPECIFICATIONS, AND ALL CONSTRUCTION CRITERIA OF OWNER AND HAS SATISFIED ITSELF THAT THE INFORMATION CONTAINED THEREIN SUFFICIENT TO FULLY AND COMPLETELY CONSTRUCT THE PROJECT.

IV) THE CONTRACTOR SHALL REVIEW THE CIVIL DOCUMENTS, THE SOILS REPORT, AND THESE DOCUMENTS (ALL IN THEIR ENTIRETY) TO INSURE THAT ALL REQUIRED EARTHWORK, PAVING, CURB AND STRUCTURAL SLAB WORK IS FULLY COVERED IN THE SCOPE OF THE CONTRACTOR'S BID. CONTRACTOR SHALL FULLY COORDINATE ALL OF THE ABOVE REFERENCE WORK WITH THE OWNER'S REPRESENTATIVE, THE ARCHITECT AND CIVIL ENGINEER TO INSURE THAT ALL WORK IS FULLY COORDINATED AND COMPLETED.

V) THE CONTRACTOR AND SUB CONTRACTOR SHALL CAREFULLY REVIEW ALL THE PROJECT DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE PROJECT DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE SET OF PROJECT DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTING INFORMATION PRIOR TO THE START OF CONSTRUCTION.

7. RECORD DRAWINGS
THE CONTRACTOR SHALL PREPARE AND MAINTAIN A COMPLETE SET OF RECORD CONSTRUCTION DRAWINGS INDICATING ALL ACTUAL WORK, MODIFICATIONS AND REVISIONS TO THE WORK DELINEATED ON THE CONSTRUCTION DOCUMENTS AS WELL AS ANY CONCEALED CONSTRUCTION WORK, INCLUDE ANY INFORMATION THAT WOULD BE HELPFUL TO THE OWNER.

8. CONTRACTOR WARRANTY
UNLESS OTHERWISE INDICATED, CONTRACTOR IS TO PROVIDE WRITTEN WARRANTY FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL STATE ALL WORK HAS BEEN COMPLETED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND ENFORCING AUTHORITIES AND THAT ALL WORK IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP. THIS IS IN ADDITION AND NOT LIMITATION TO ANY PRODUCT MANUFACTURER'S PRODUCT WARRANTIES.

9. RATED PENETRATIONS
ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS OR FIRE RATED CEILING ASSEMBLIES SHALL BY INSTALLED ACCORDING TO U.L. STANDARDS AND PER APPLICABLE CODES FOR REQUIRED HOUR FIRE RATED CONSTRUCTION.

10. PROJECT WORKMANSHIP
WORKMANSHIP SHALL BE FIRST-CLASS AND PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

11. MATERIAL INSTALLATION STANDARDS
ALL MATERIALS SHALL BE INSTALLED ACCORDING TO INDUSTRY STANDARDS, RECOMMENDATIONS REFERENCED IN THE SPECIFICATIONS, OR MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS THE MOST STRINGENT, IN ORDER TO PROVIDE A COMPLETE AND HIGH-QUALITY PROJECT.

12. CUTTING AND PATCHING
CONTRACTOR IS TO INCLUDE ALL CUTTING AND PATCHING FOR PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS, AND ROOF. DO NOT CUT OR NOTCH ANY STRUCTURAL MEMBER TO REDUCE ITS LOAD CARRYING CAPACITY.

13. UNFORESEEN CONDITIONS
SHOULD UNFORESEEN CONDITIONS BE ENCOUNTERED THAT AFFECT DESIGN OR FUNCTION OF THE PROJECT, THE CONTRACTOR SHALL INVESTIGATE FULLY AND SUBMIT AN ACCURATE AND DETAILED REPORT TO THE ARCHITECT WITHOUT DELAY. WHILE AWAITING A RESPONSE, THE CONTRACTOR SHALL RESCHEDULE OPERATION AS REQUIRED TO AVOID DELAY OF THE OVERALL PROJECT.

14. DEFINED WORDS
IN THE PROJECT DOCUMENTS. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL".

15. CHANGES TO THE DESIGN
ONLY THE ARCHITECT HAS THE AUTHORITY TO CHANGE THE DESIGN.

2 A0.1 GENERAL NOTES
SCALE: 12" = 1'-0"

ROOM IDENTIFICATION
LOBBY — ROOM NAME
101 — ROOM NUMBER (FIRST DIGIT USUALLY INDICATES FLOOR LEVEL)

A — WALL AND PARTITION TYPE

101 — DOOR IDENTIFICATION

W1 — WINDOW IDENTIFICATION

ELEVATION IDENTIFICATION
EL: 100'-0" T.O. — ELEVATION
ELEVATION IDENTIFICATION

INTERIOR IDENTIFICATION
1 / A101 — DIRECTION ELEVATION IS VIEWED
ELEVATION IDENTIFICATION
DRAWING WHERE ELEVATION IS SHOWN

SECTION IDENTIFICATION
1 / A101 — SECTION IDENTIFICATION
DRAWING WHERE DETAIL IS SHOWN
DIRECTION SECTION IS VIEWED

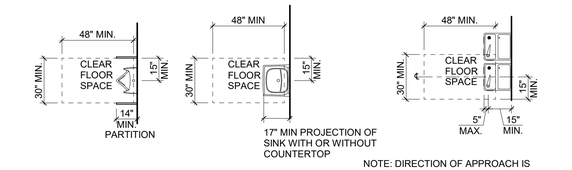
1 HOUR RATED WALL DESIGNATION

DETAIL IDENTIFICATION
1 / A101 — SECTION IDENTIFICATION
DRAWING WHERE DETAIL IS SHOWN

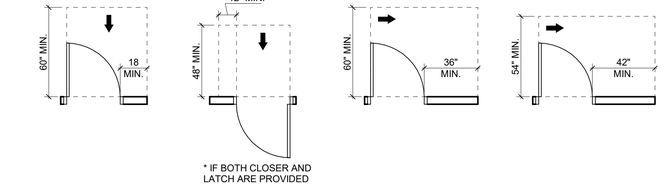
SYMBOLS
FE — FIRE EXTINGUISHER
FEC — FIRE EXTINGUISHER CABINET

CONCRETE
LIGHTWEIGHT CONCRETE / GROUT
CONCRETE MASONRY UNIT
STEEL
CRUSHED STONE / AGGREGATE
EARTH / COMPACTED FILL
SAND
STEEL GRATING (PLAN)

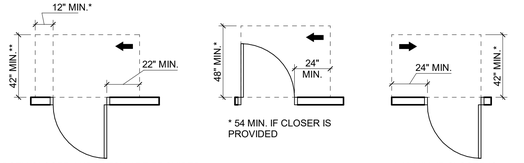
3 A0.1 SYMBOLS
SCALE: 1/8" = 1'-0"



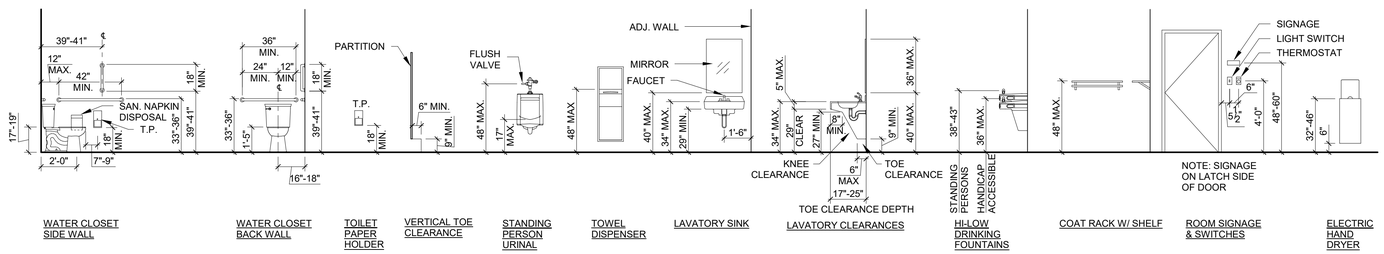
URINAL | LAVATORY | HI-LOW DRINKING FOUNTAIN | FLOOR-MOUNTED WATER CLOSET



FRONT APPROACH, PULL SIDE | FRONT APPROACH, PUSH SIDE | HINGE APPROACH, PULL SIDE | HINGE APPROACH, PUSH SIDE



HINGE APPROACH, PUSH SIDE | LATCH APPROACH, PULL SIDE | LATCH APPROACH, PUSH SIDE



WATER CLOSET SIDE WALL | WATER CLOSET BACK WALL | TOILET PAPER HOLDER | VERTICAL TOE CLEARANCE | STANDING PERSON URINAL | TOWEL DISPENSER | LAVATORY SINK | LAVATORY CLEARANCES | HI-LOW DRINKING FOUNTAINS | COAT RACK W/ SHELF | ROOM SIGNAGE & SWITCHES | ELECTRIC HAND DRYER

4 A0.1 TYPICAL MOUNTING HEIGHTS & CLEARANCES
SCALE: 1/4" = 1'-0"

NOTES:
1. ALL DIMENSIONS NOTED ARE ABOVE FINISHED FLOOR.
2. ALL FIXTURES ACCESSIBLE ARE TO BE MOUNTED TO MEET ICC A117.1-2009 ANSI.

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ELIZABETH CITY REGIONAL AIRPORT

NOT FOR CONSTRUCTION

Elizabeth City Regional Airport
Terminal Building
Consolidated Rd
Elizabeth City, NC 27909

MK DATE DESCRIPTION
REVISIONS

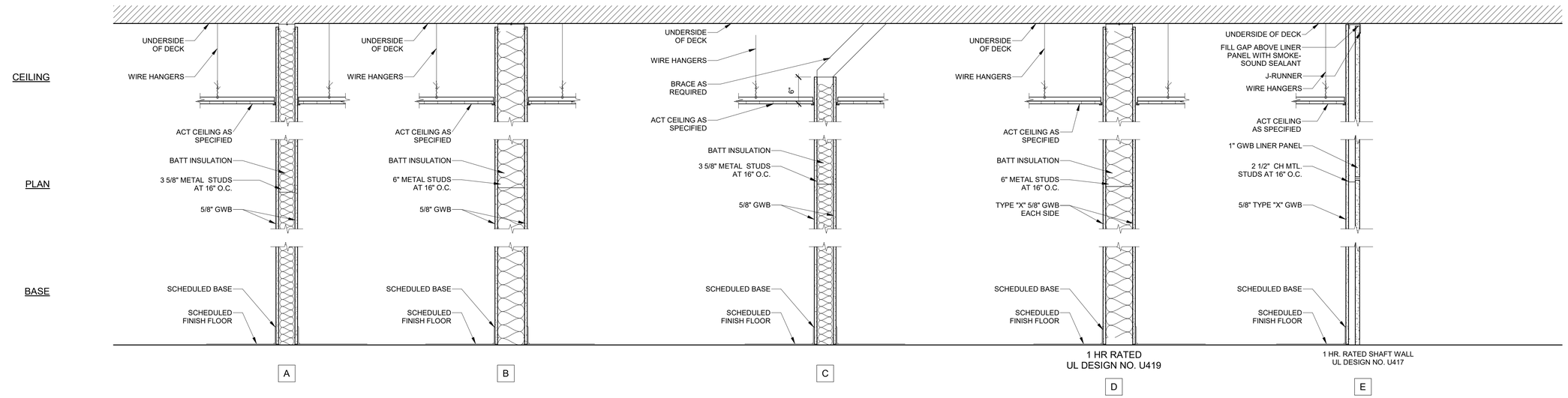
ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS (AND DETAILS) (, GENERAL NOTES)

DATE 07/12/24
DRAWN BY Author
CHECK BY Checker
JOB NO. 023-031
SHEET

A0.1

60% REVIEW SET

Autodesk Docs://Elizabeth City Terminal Building/ECG Terminal.rvt



WALL TYPES

SCALE: 1" = 1'-0"

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MK	DATE	DESCRIPTION

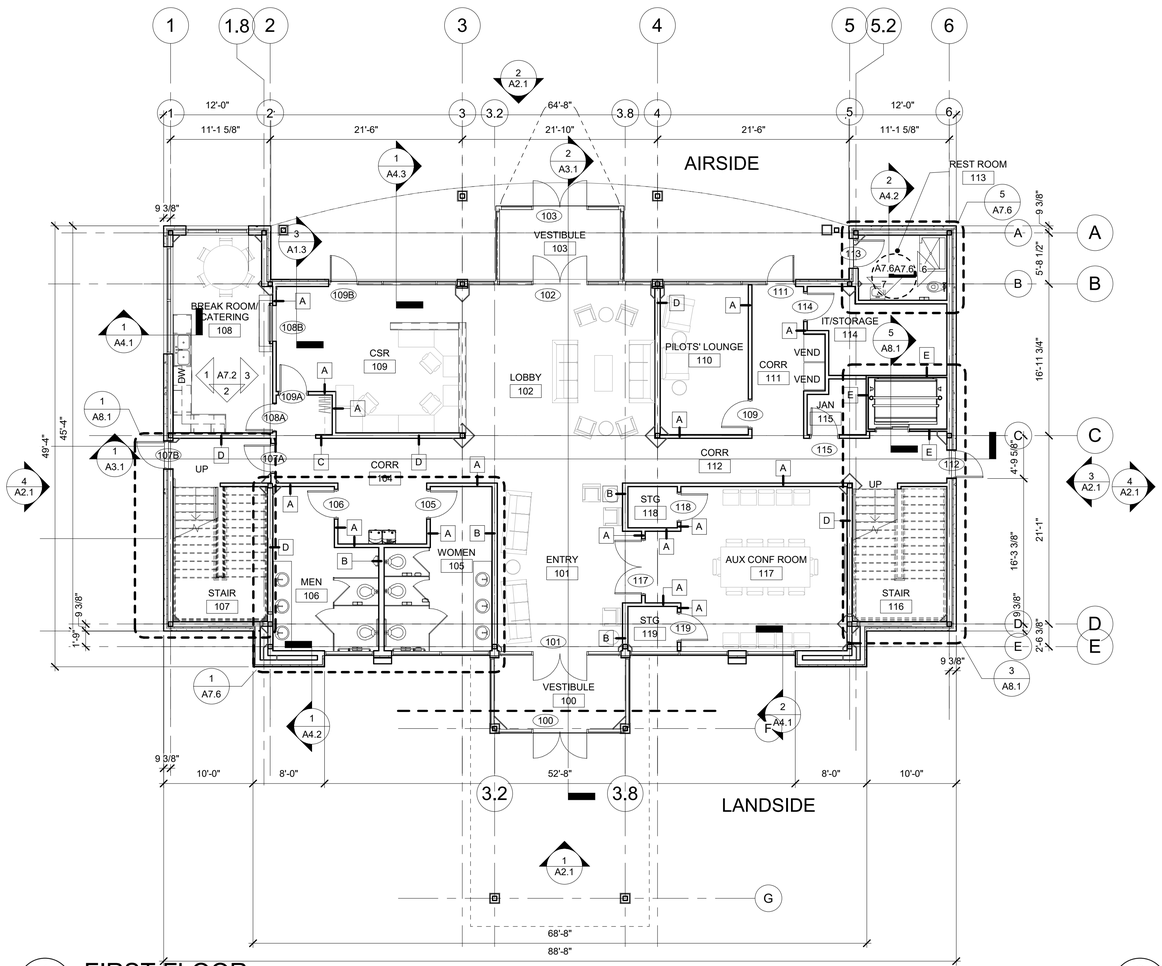
REVISIONS

WALL TYPES

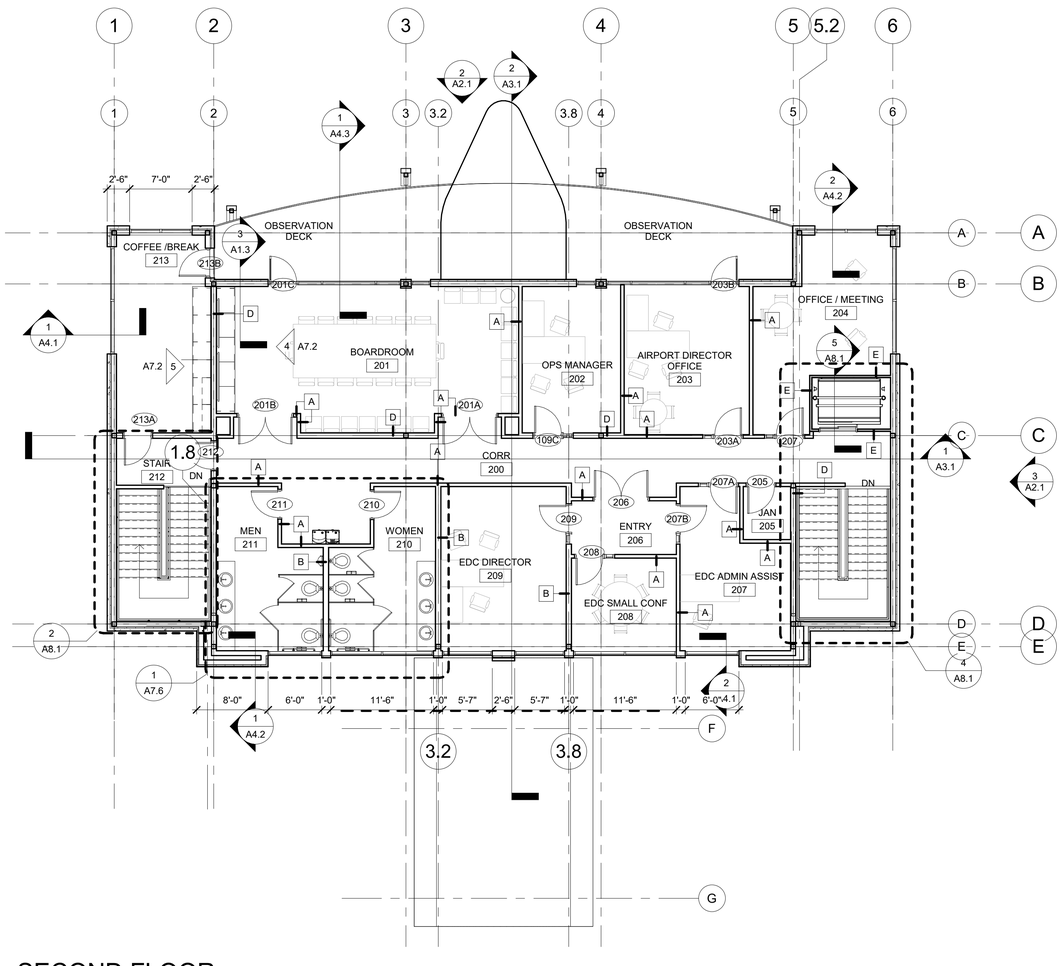
DATE	07/12/24
DRAWN BY	Author
CHECK BY	Checker
JOB NO.	023-031
SHEET	

A0.2

60% REVIEW SET



1 A1.1 FIRST FLOOR
SCALE: 1/8" = 1'-0"



2 A1.1 SECOND FLOOR
SCALE: 1/8" = 1'-0"

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ELIZABETH CITY REGIONAL AIRPORT

NOT FOR CONSTRUCTION

Elizabeth City Regional Airport
Terminal Building
Consolidated Rd
Elizabeth City, NC 27909

MK DATE DESCRIPTION
REVISIONS

FLOOR PLANS

DATE 07/12/24
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CHECK BY SWF
JOB NO. 023-031
SHEET
A1.1

60% REVIEW SET

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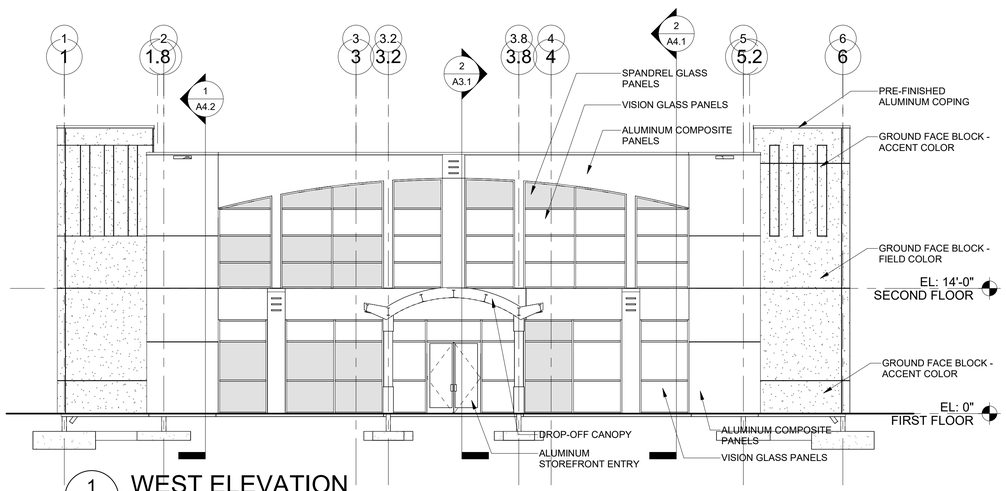
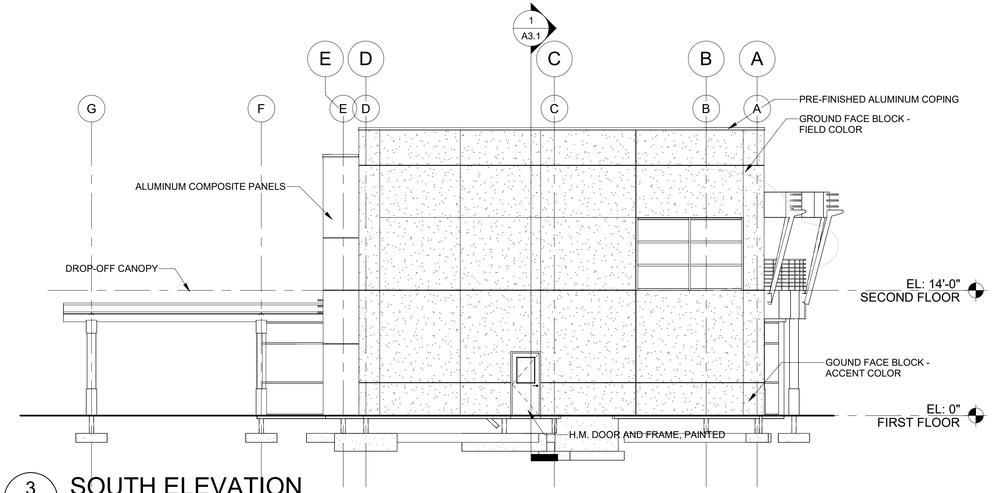
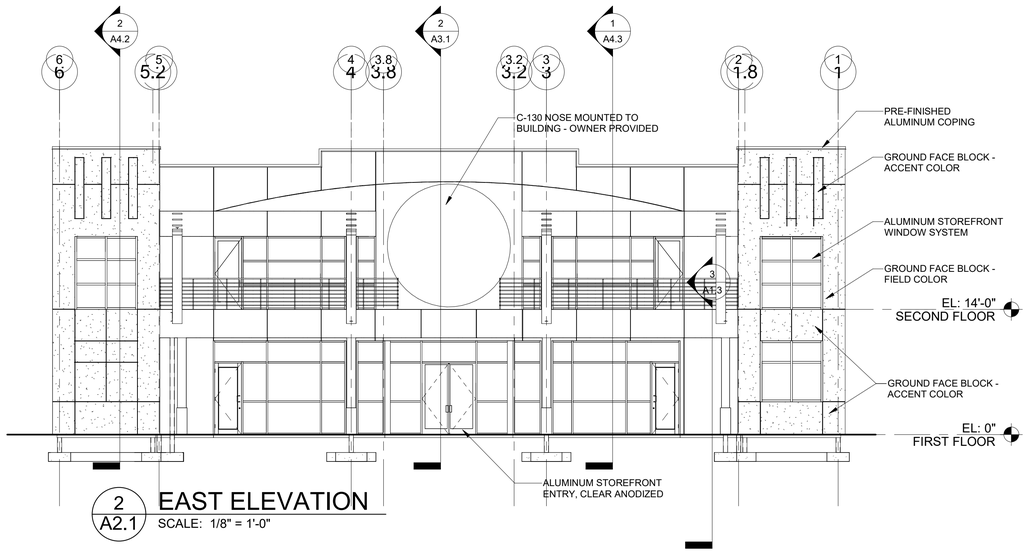


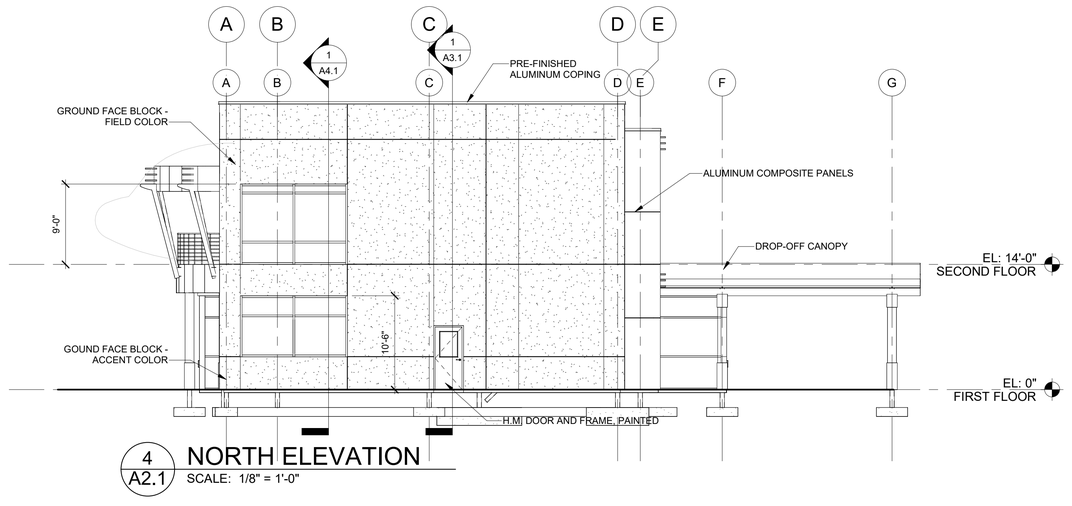
1 A2.1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



3 A2.1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 A2.1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



4 A2.1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

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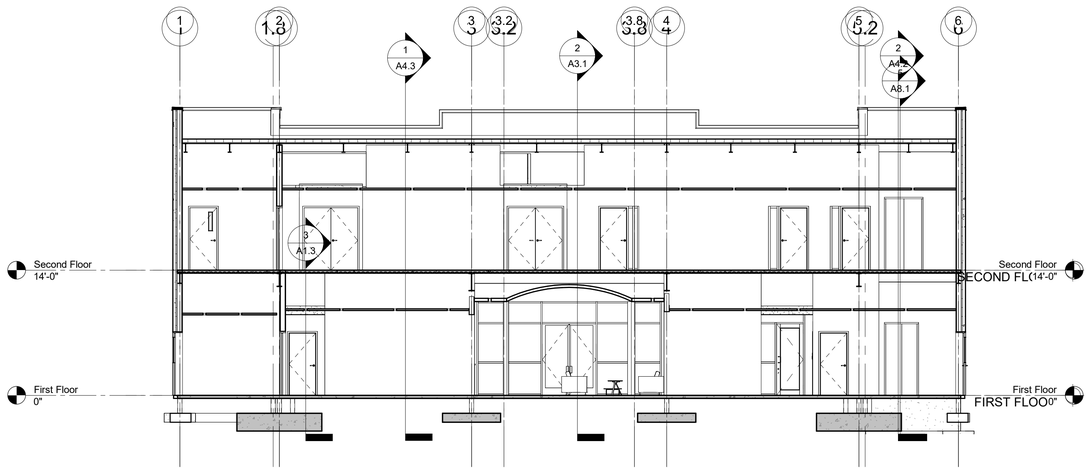
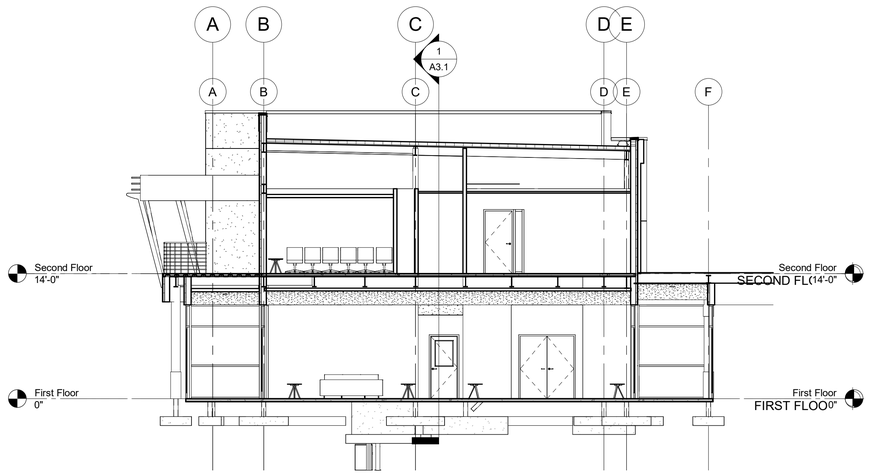


1 A3.1 BUILDING SECTION

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



2 A3.1 BUILDING SECTION

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

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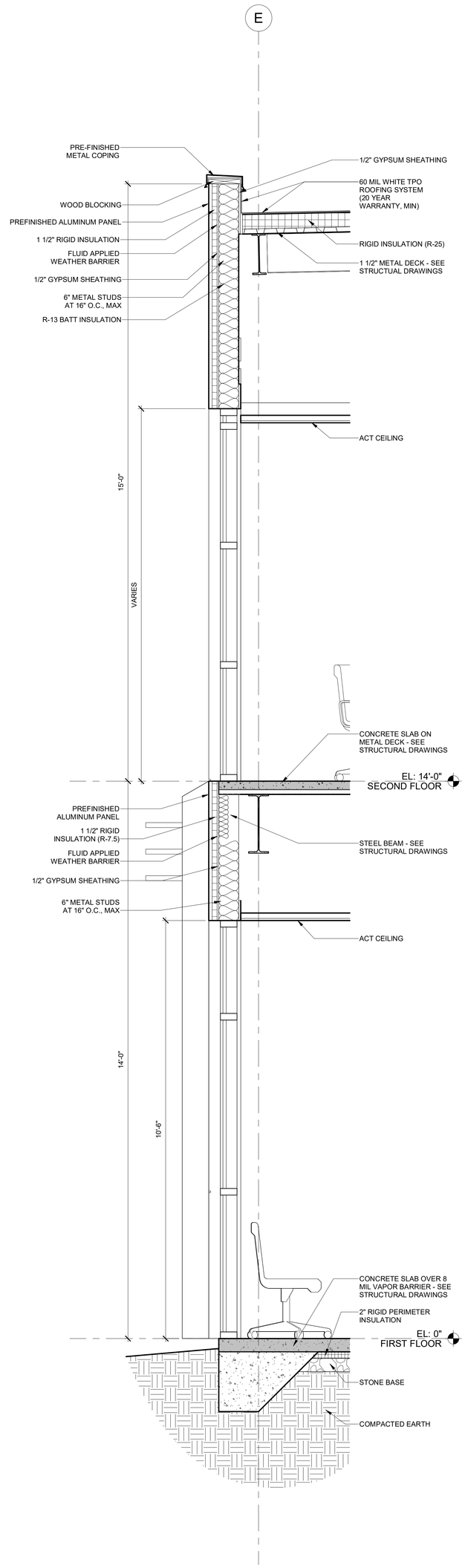
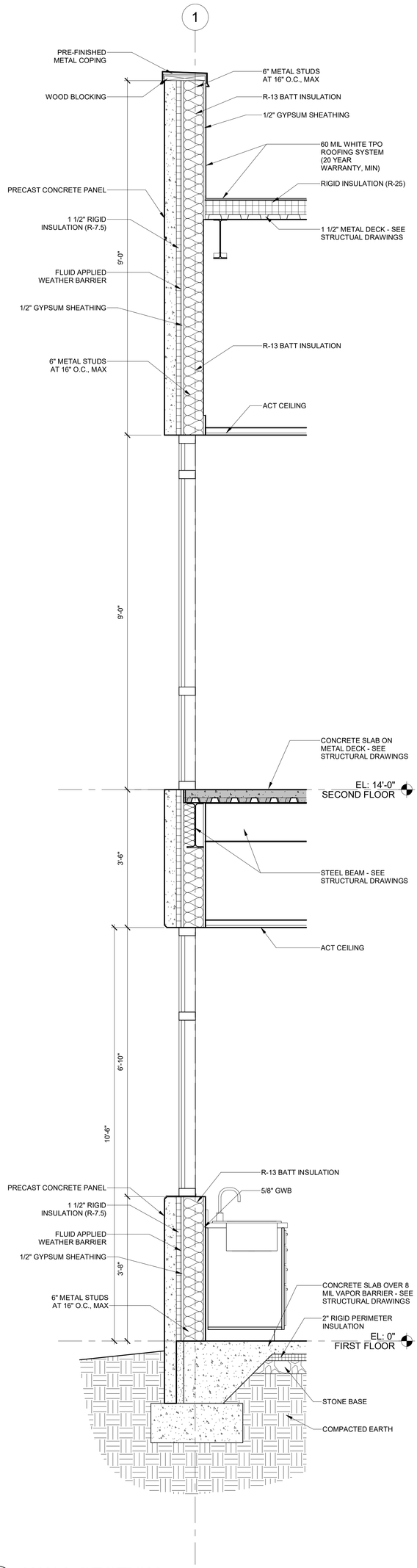
A3.1



2 A4.1 WALL SECTION
SCALE: 3/4" = 1'-0"



1 A4.1 WALL SECTION
SCALE: 3/4" = 1'-0"

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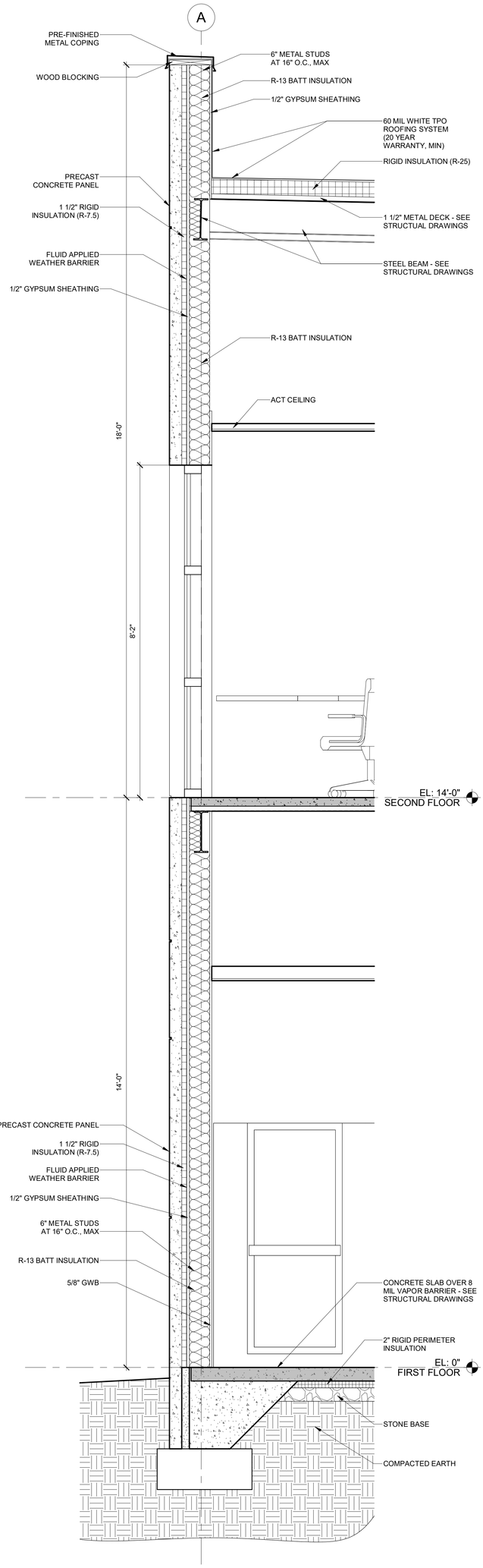
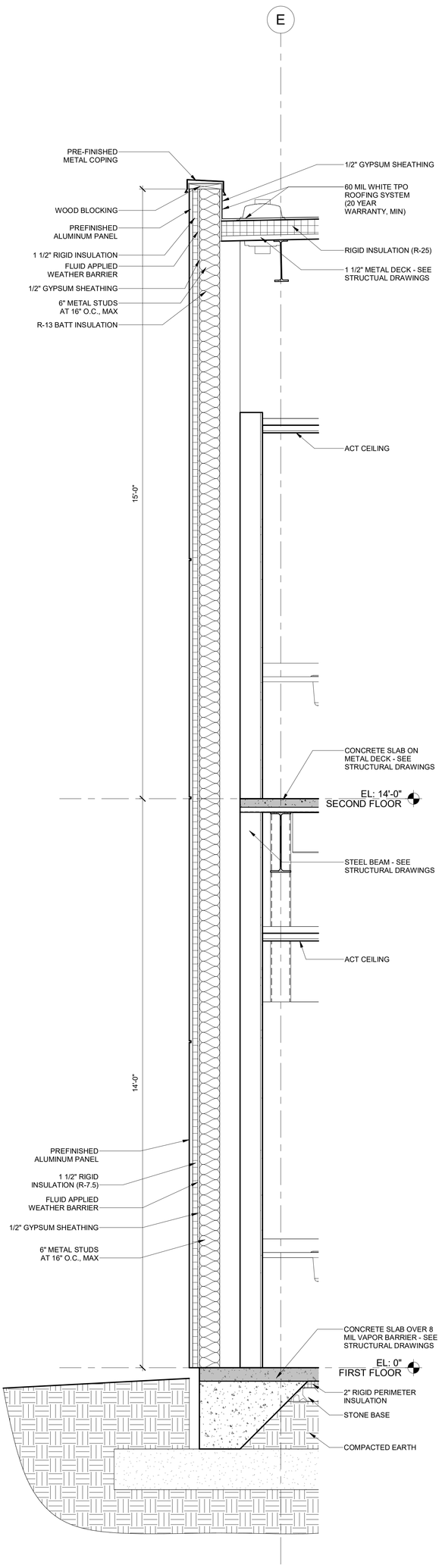


2 / A4.2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 / A4.2 WALL SECTION
SCALE: 3/4" = 1'-0"

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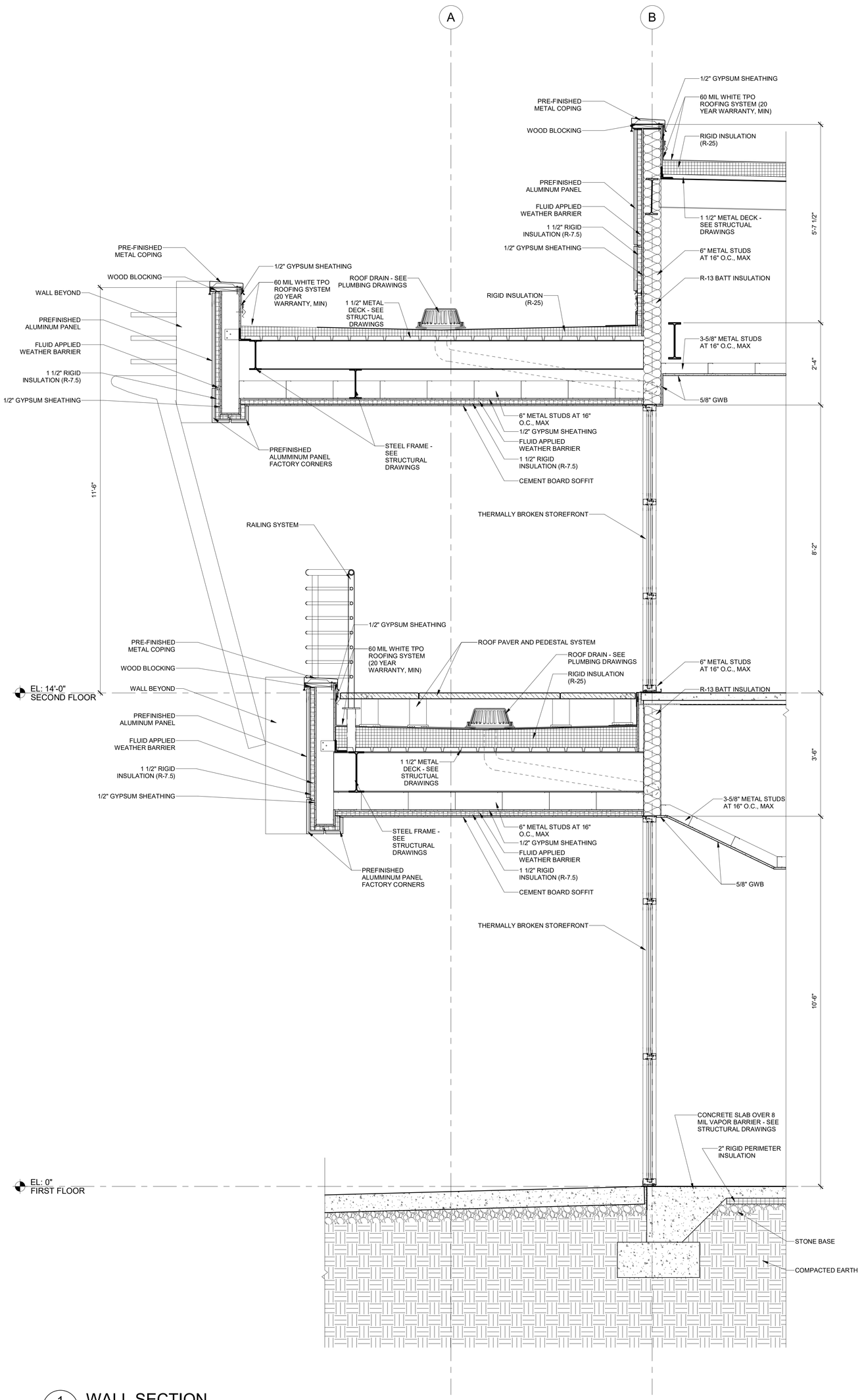

1 A4.3 WALL SECTION
SCALE: 3/4" = 1'-0"

60% REVIEW SET

A4.3

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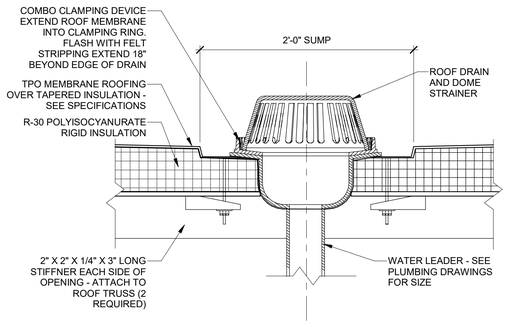
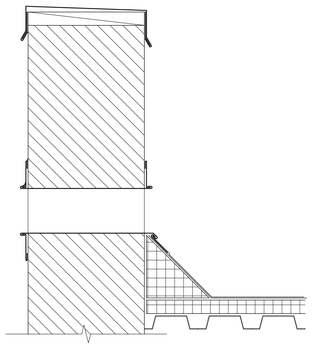


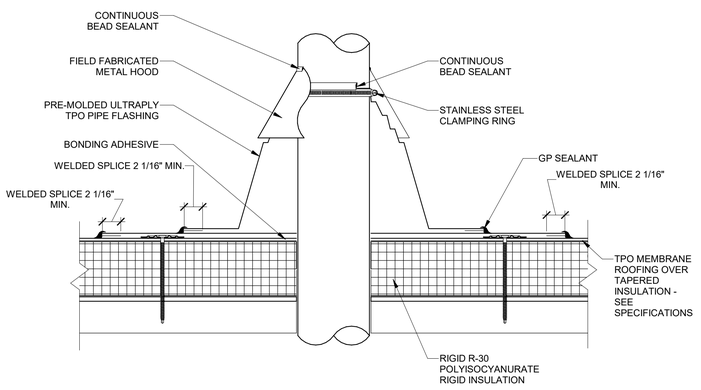
2 A1.4 PRIMARY ROOF DRAIN DETAIL

SCALE: 1 1/2" = 1'-0"



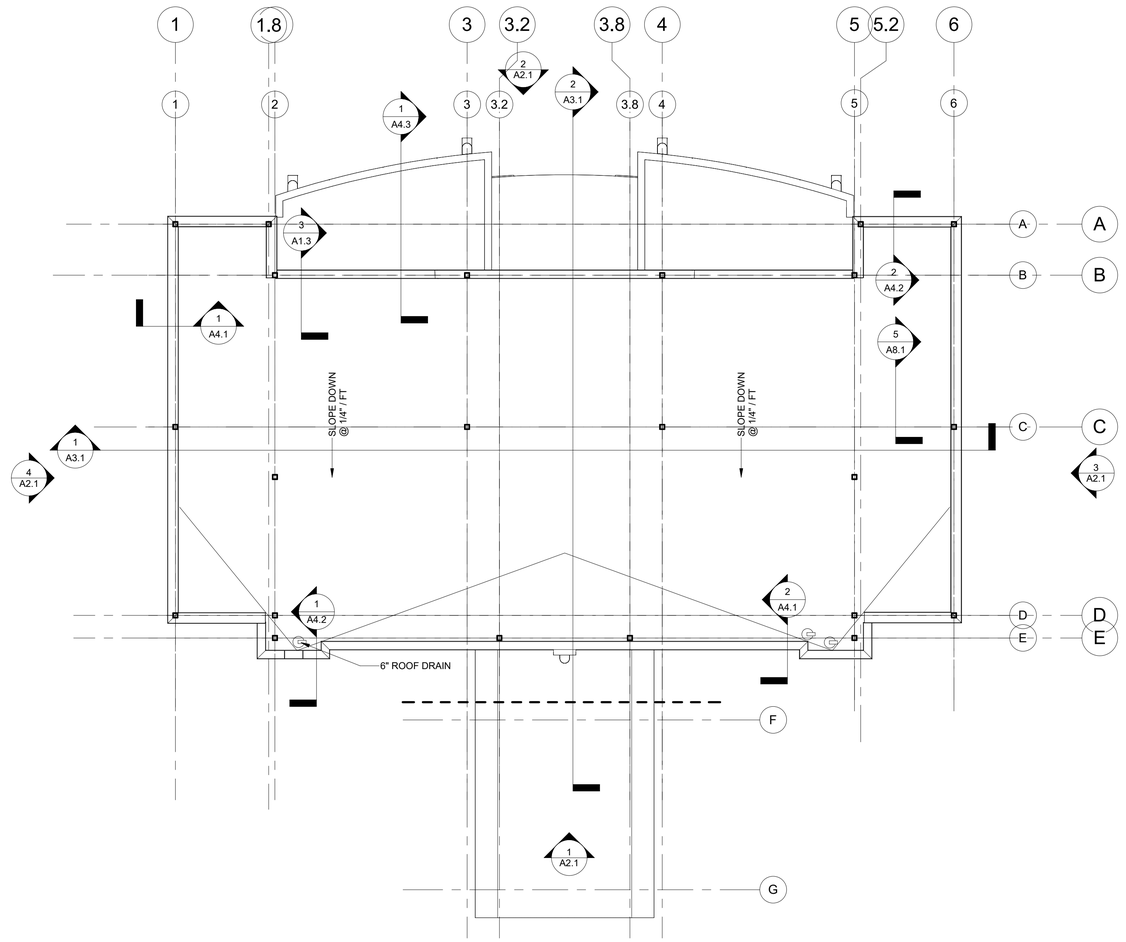
3 A1.4 Overflow Scupper

SCALE: 1 1/2" = 1'-0"



4 A1.4 PIPE PENETRATION DETAIL

SCALE: 1 1/2" = 1'-0"



1 A1.4 ROOF PLAN

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

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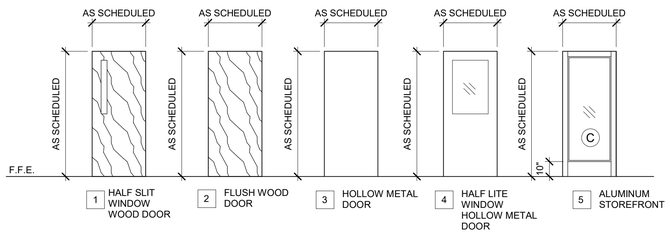
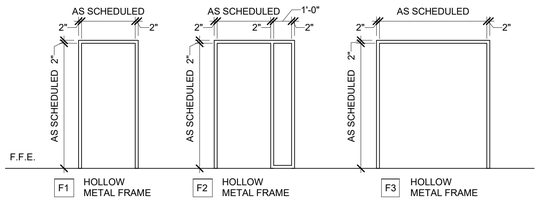
DOOR SCHEDULE

DOOR NO.	DOOR SIZE			FRAME		DOOR		DETAILS			FIRE RATING	HARDWARE	REMARKS
	WIDTH	HEIGHT	THICK.	MATL.	ELEV.	MATL.	ELEV.	HEAD	JAMB	SILL			
FIRST FLOOR													
100	6'-0"	8'-0"		ALUM	F3		5						
101	6'-0"	8'-0"		ALUM	F3		5						
102	6'-0"	8'-0"		ALUM	F3		5						
103	6'-0"	8'-0"		ALUM	F3		5						
105	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
106	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
107A	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	1						
107B	3'-0"	7'-0"	1 3/4"	HM	F1	HM	4						
108A	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
108B	4'-0"	4'-6"	1/2"										ROLL UP DOOR
109	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
109A	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
109B	3'-0"	8'-0"		ALUM			5						
111	3'-0"	8'-0"		ALUM			5						
112	3'-0"	7'-0"	1 3/4"	HM	F1	HM	4						
113	3'-0"	7'-0"	1 3/4"	HM	F1	HM	2						
114	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
115	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
117	6'-0"	7'-0"	1 3/4"	HM	F3	SCWD	2						
118	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
119	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
SECOND FLOOR													
109C	3'-0"	7'-0"	1 3/4"	HM	F2	SCWD	2						
201A	6'-0"	7'-0"	1 3/4"	HM	F3	SCWD	2						
201B	6'-0"	7'-0"	1 3/4"	HM	F3	SCWD	2						
201C	3'-1"	8'-0"		ALUM			5						
203A	3'-0"	7'-0"	1 3/4"	HM	F2	SCWD	2						
203B	3'-0"	8'-0"		ALUM			5						
205	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
206	6'-0"	7'-0"	1 3/4"	HM	F3	SCWD	2						
207	3'-0"	7'-0"	1 3/4"	HM	F2	SCWD	2						
207A	3'-0"	7'-0"	1 3/4"	HM	F2	SCWD	2						
207B	3'-0"	7'-0"	1 3/4"	HM	F2	SCWD	2						
208	3'-0"	7'-0"	1 3/4"	HM	F2	SCWD	2						
209	3'-0"	7'-0"	1 3/4"	HM	F2	SCWD	2						
210	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
211	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	2						
212	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	1						
213A	3'-0"	7'-0"	1 3/4"	HM	F1	SCWD	1						
213B	3'-0"	7'-0"	1 3/4"	HM	F1	HM	3						



1 / A6.1 DOOR TYPES
SCALE: 1/4" = 1'-0"



2 / A6.1 FRAME TYPES
SCALE: 1/4" = 1'-0"

MATERIAL LEGEND
ALUM ALUMINUM
GENERAL NOTES
1. -
2. -
REMARKS
1. -
HARDWARE NOTES & SCHEDULE
SET HW-01
(2) CONTINUOUS HINGE
(2) CONCEALED CLOSER W/OVERHEAD DOOR STOP FUNCTION
(1) PUSH/PULLS
CYLINDER LOCK WITH THUMB TURN
THRESHOLD
DOOR SWEEP
WEATHER STRIPPING/SEALS
SET HW-02

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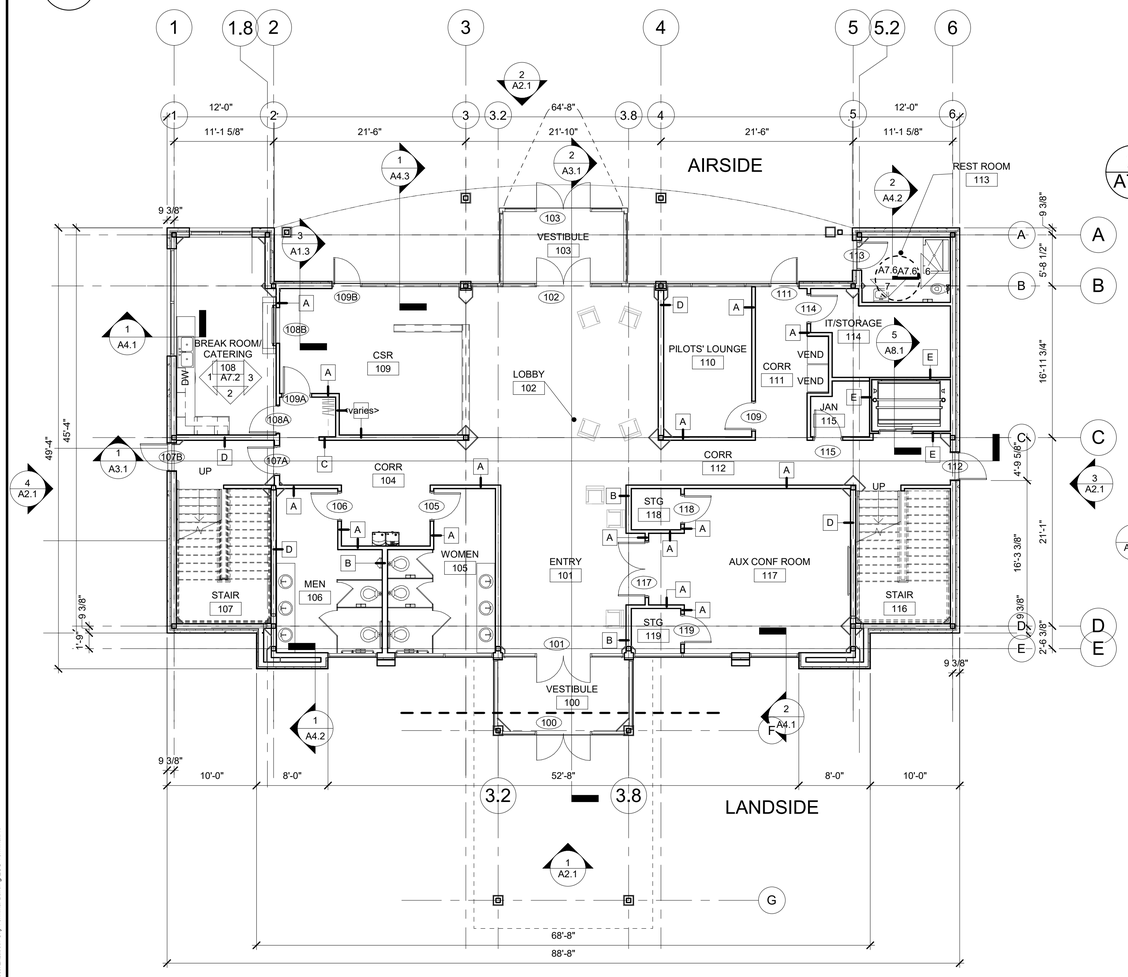
FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	MILLWORK FINISH		CEILING HT.	REMARKS	Level
				NORTH	SOUTH	EAST	WEST		VERTICAL	HORIZONTAL			
100	VESTIBULE												FIRST FLOOR
101	ENTRY	PT-4											FIRST FLOOR
102	LOBBY	PT-4											FIRST FLOOR
103	VESTIBULE												FIRST FLOOR
104	CORR	PT-4											FIRST FLOOR
105	WOMEN	PT-1		PT-2	PT-2	PT-2	PT-2						FIRST FLOOR
106	MEN	PT-1		PT-2	PT-2	PT-2	PT-2						FIRST FLOOR
107	STAIR												FIRST FLOOR
108	BREAK ROOM/ CATERING	PT-3											FIRST FLOOR
109	CSR	LVT-1											FIRST FLOOR
110	PILOTS' LOUNGE	CPT-1											FIRST FLOOR
111	CORR	PT-4											FIRST FLOOR
112	CORR	PT-4											FIRST FLOOR
113	REST ROOM	PT-1											FIRST FLOOR
114	IT/STORAGE	LVT-2											FIRST FLOOR
115	JAN												FIRST FLOOR
116	STAIR												FIRST FLOOR
117	AUX CONF ROOM	CPT-4											FIRST FLOOR
118	STG												FIRST FLOOR
119	STG												FIRST FLOOR
123	OBSERVATION DECK												SECOND FLOOR
124	OBSERVATION DECK												SECOND FLOOR
200	CORR	LVT-1											SECOND FLOOR
201	BOARDROOM	CPT-2											SECOND FLOOR
202	OPS MANAGER	CPT-1											SECOND FLOOR
203	AIRPORT DIRECTOR OFFICE	CPT-1											SECOND FLOOR
204	OFFICE / MEETING	CPT-1											SECOND FLOOR
205	JAN												SECOND FLOOR
206	ENTRY	CPT-1											SECOND FLOOR
207	EDC ADMIN ASSIST	CPT-1											SECOND FLOOR
208	EDC SMALL CONF	CPT-1											SECOND FLOOR
209	EDC DIRECTOR	CPT-1											SECOND FLOOR
210	WOMEN	PT-1		PT-2	PT-2	PT-2	PT-2						SECOND FLOOR
211	MEN	PT-1		PT-2	PT-2	PT-2	PT-2						SECOND FLOOR
212	STAIR												SECOND FLOOR
213	COFFEE /BREAK	PT-3											SECOND FLOOR

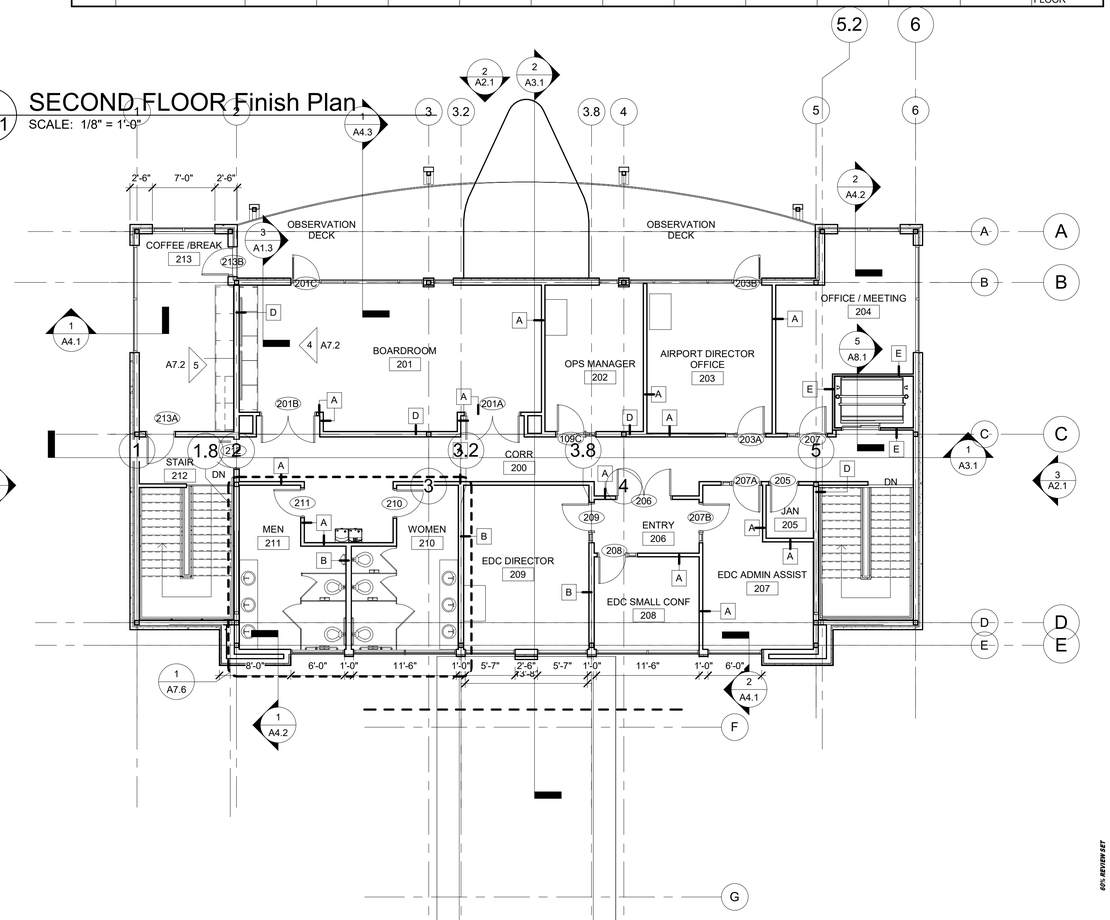
1 A7.1 FIRST FLOOR Finish Plan

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



2 A7.1 SECOND FLOOR Finish Plan

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



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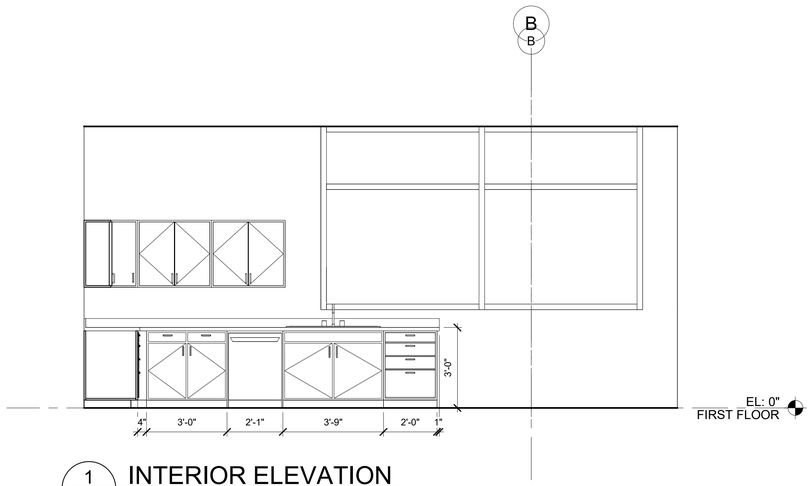
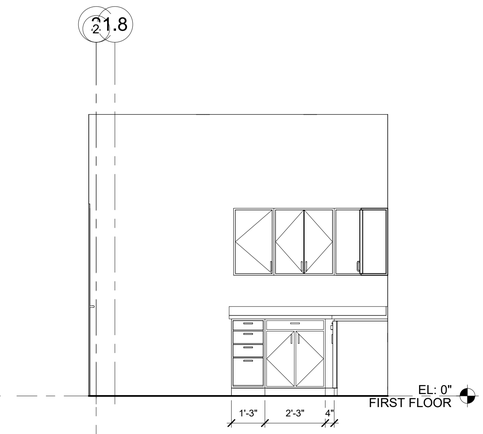
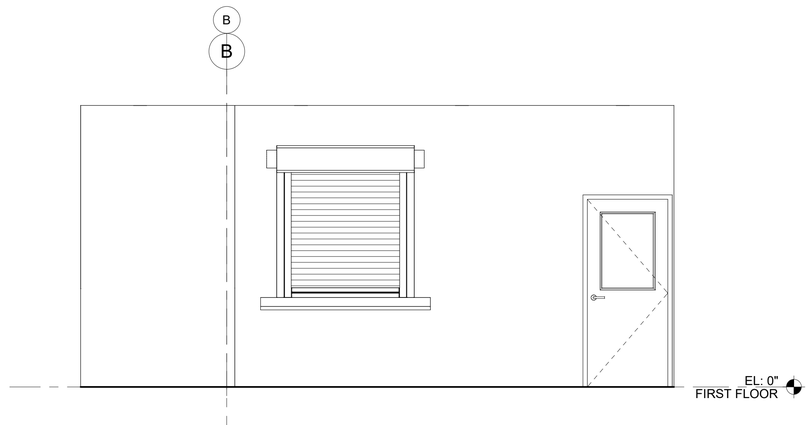


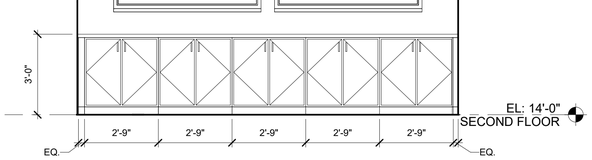
1 A7.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



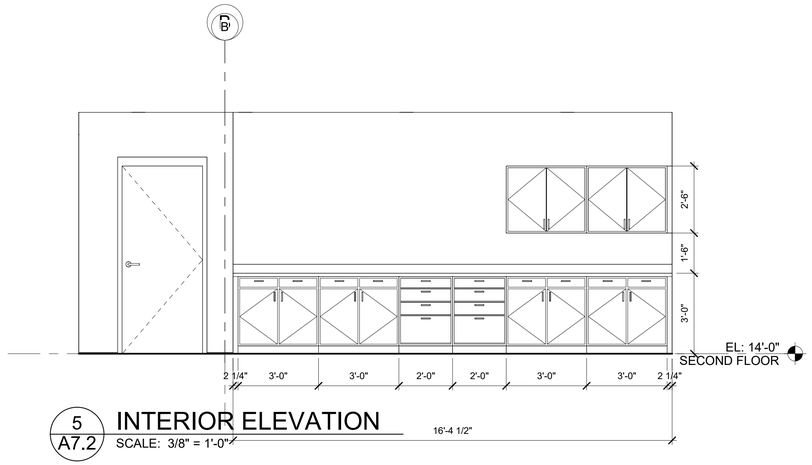
2 A7.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



3 A7.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



4 A7.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



5 A7.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

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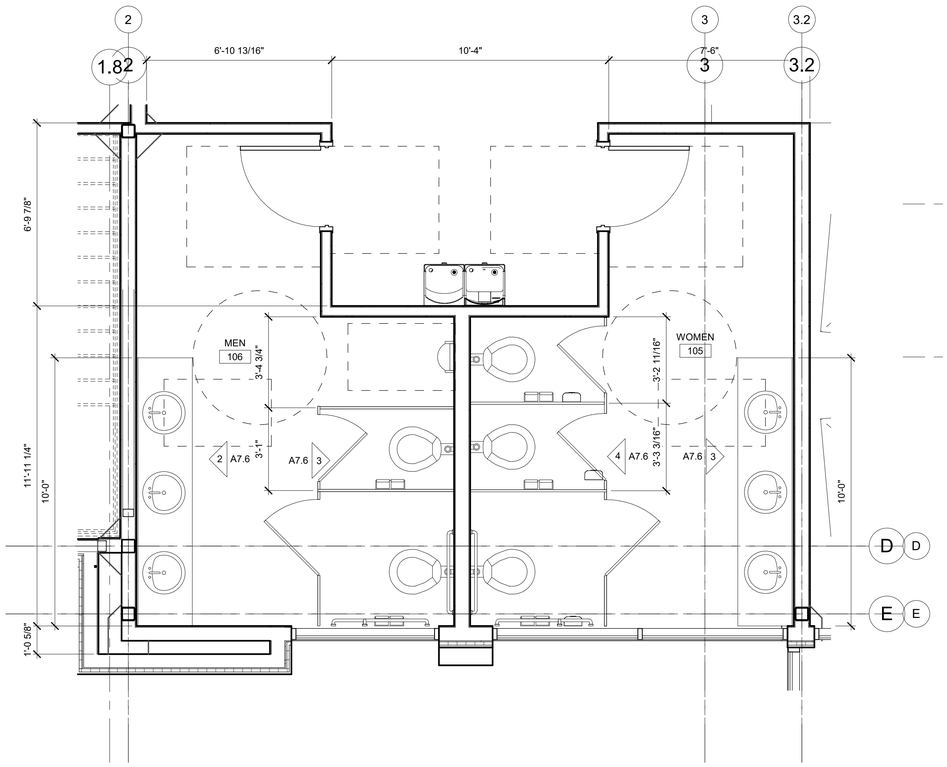
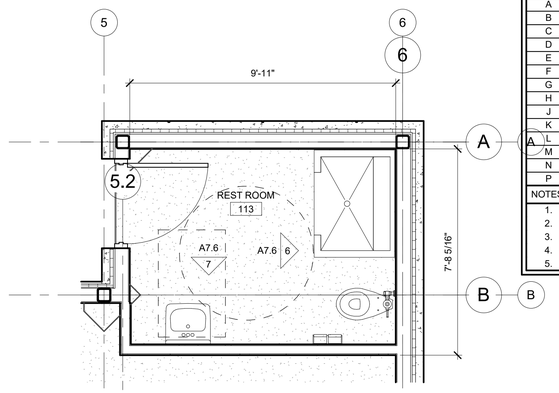


1 A7.6 ENLARGED PLAN - RESTROOM BANK
SCALE: 3/8" = 1'-0"

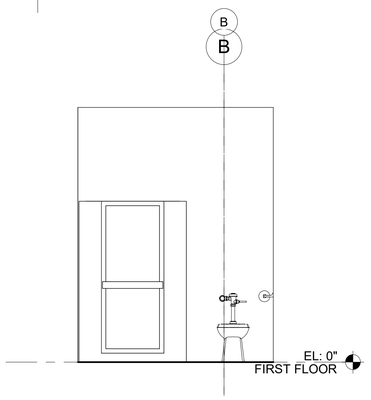


5 A7.6 ENLARGED PLAN - RESTROOM 113
SCALE: 3/8" = 1'-0"

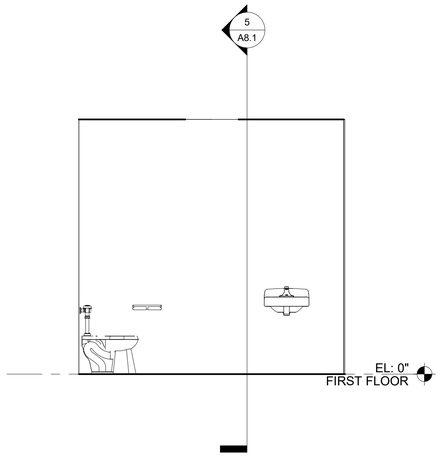
TOILET ACCESSORY SCHEDULE

KEY NUMBER	DECRIPTION	MANUFACTURER	MANUFACTURER NUMBER	REMARKS
A	42" HORIZONTAL GRAB BAR	BOBRICK	B-5806X42	--
B	36" HORIZONTAL GRAB BAR...	BOBRICK	B-5806X36	--
C	18" VERTICAL GRAB BAR	BOBRICK	B-5806X18	--
D	TOILET PAPER DISPENSER	OWNER-SELECTED	OWNER-SELECTED	GC TO INSTALL
E	NAPKIN DISPOSAL	BOBRICK	B-207	--
F	PAPER TOWEL DISPENSER	OWNER-SELECTED	OWNER-SELECTED	GC TO INSTALL
G	SOAP DISPENSER	OWNER-SELECTED	OWNER-SELECTED	GC TO INSTALL
H	MIRROR	BOBRICK	B-290 2436	--
J	TOILET PARTITION	OWNER-SELECTED	OWNER-SELECTED	GC TO INSTALL
K	MENS HANDICAP SIGN	ROCKWOOD	BFM687 BLACK	--
L	WOMENS HANDICAP SIGN	ROCKWOOD	BFM688 BLACK	--
M	WASTE RECEPTACLE	STANDARD	TBD	--
N	PASS THRU	STANDARD	TBD	--
P	COAT HOOK	STANDARD	TBD	--

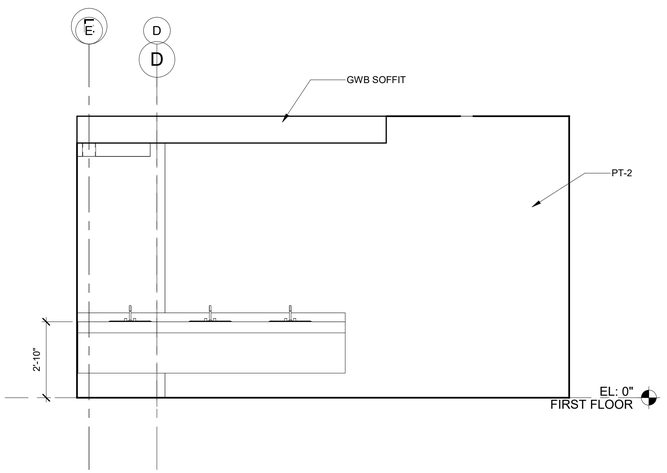
NOTES:
1. SEE SHEET A0.1 FOR MOUNTING HEIGHTS
2. FIRETREATED BLOCKING TO BE PROVIDED AT ALL LOCATIONS TO SUPPORT ACCESSORIES.
3. INSTALL ACCESSORIES WITH TOGGLE BOLTS ONLY, UNLESS SECURING FIXTURE TO BLOCKING.
4. MANUFACTURER SHOWN IS BASIS OF DESIGN. PROVIDE PRODUCT AS SPECIFIED OR EQUAL.
5. ALL ACCESSORIES NOT INDICATED AS "PROVIDED BY OWNER" SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR....



6 A7.6 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



7 A7.6 RESTRROM 113 B
SCALE: 3/8" = 1'-0"



2 A7.6 INTERIOR ELEVATION
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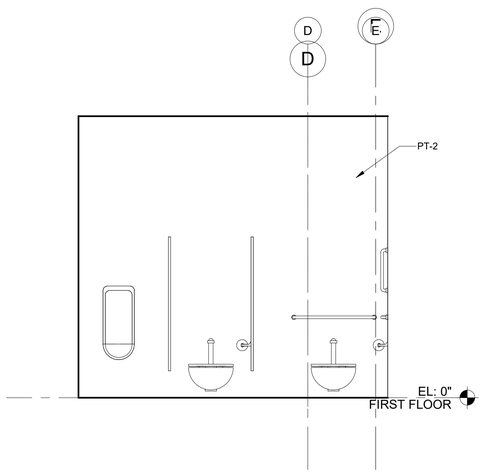

3 A7.6 INTERIOR ELEVATION
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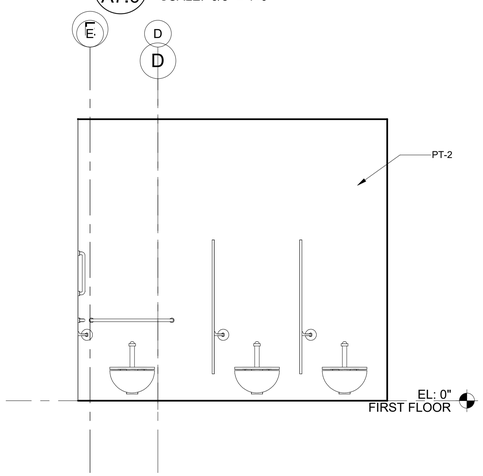

4 A7.6 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

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ELIZABETH CITY REGIONAL AIRPORT

NOT FOR CONSTRUCTION

Elizabeth City Regional Airport
Terminal Building

Consolidated Rd
Elizabeth City, NC 27909

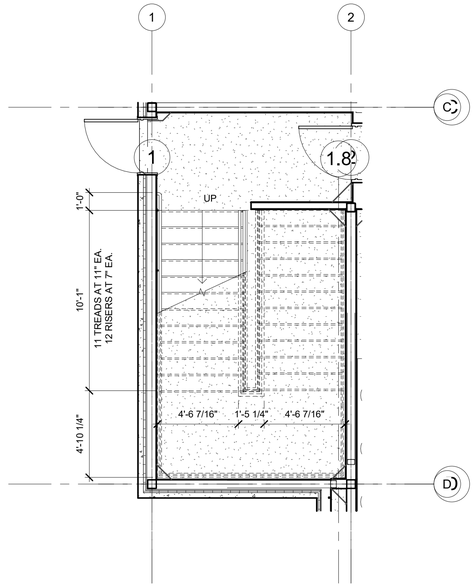
MK DATE DESCRIPTION
REVISIONS

ENLARGED RESTROOM PLAN

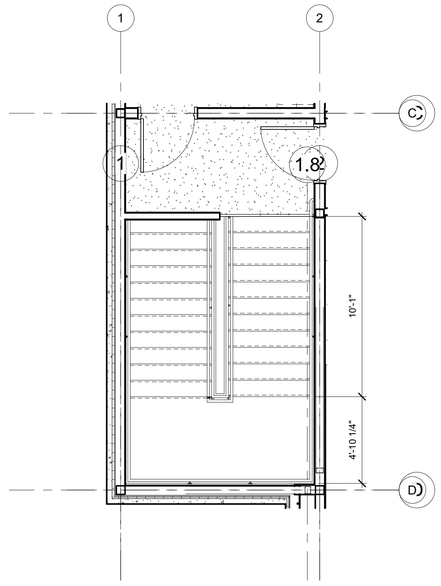
60% REVIEW SET

DATE 07/12/24
DRAWN BY Author
CHECK BY Checker
JOB NO. 023-031
SHEET

A7.6



1 A8.1 STAIR PLAN
SCALE: 1/4" = 1'-0"



2 A8.1 STAIR PLAN
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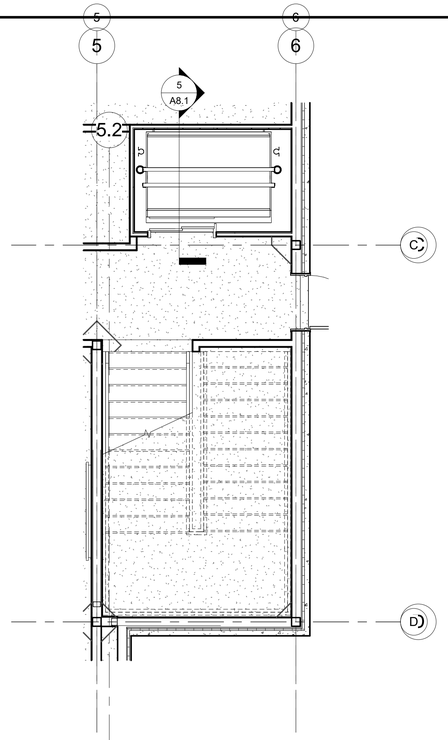
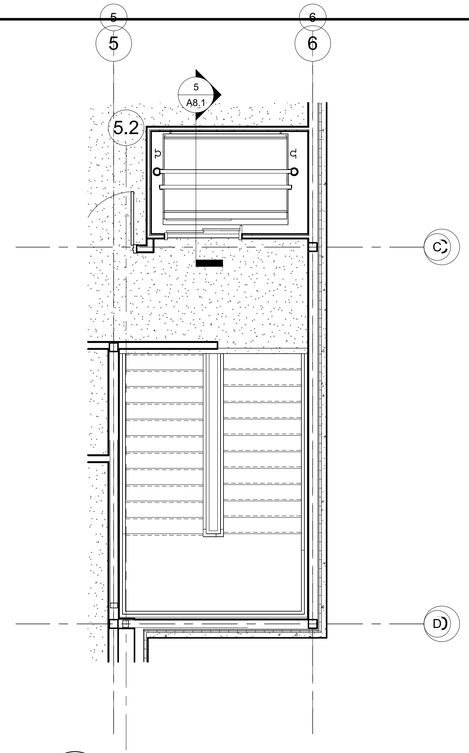
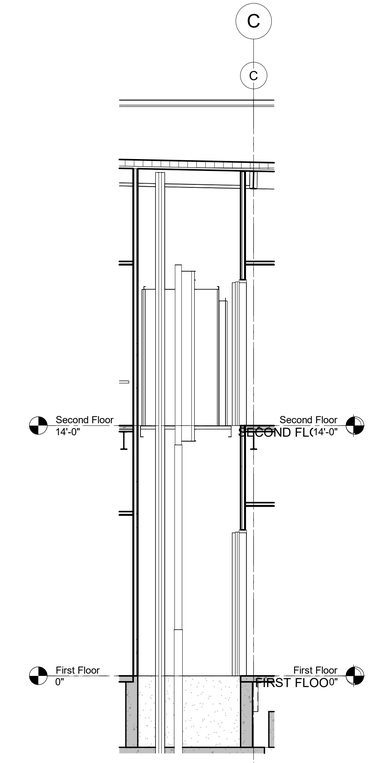


3 A8.1 STAIR PLAN
SCALE: 1/4" = 1'-0"



4 A8.1 STAIR PLAN
SCALE: 1/4" = 1'-0"



5 A8.1 Section 26
SCALE: 1/4" = 1'-0"

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ELIZABETH CITY
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ENLARGED STAIR AND ELEVATOR PLANS

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Autodesk Docs://Elizabeth City Terminal Building/ECG Terminal.rvt

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT.	ALTERNATE
ARCH.	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG.	AVERAGE
AWS	AMERICAN WELDING SOCIETY
BLDG.	BUILDING
BM	BEAM
BP	BEARING PLATE;BASE PLATE
BRG.	BEARING
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT
CGS	CENTER OF GRAVITY OF STEEL
CL.	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CTR.	CENTER
DCJ	DOWELED CONTROL JOINT
DJ	DOUBLE JOIST
DS	DOWN SPOUT
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DL	DEAD LOAD
DN	DOWN
DWG(S).	DRAWING(S)
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
E-W	EAST-WEST
EA.	EACH
ELEV.	ELEVATION; ELEVATOR
ENGR.	ENGINEER
EQ.	EQUAL
EXIST.	EXISTING
EXP. JT.	EXPANSION JOINT
EXT.	EXTERIOR
FD	FLOOR DRAIN
FF	FAR FACE
FDN.	FOUNDATION
FIN.	FINISH
FL.	FLOOR
FLG.	FLANGE
FOB	FACE OF BRICK
FT.	FOOT; FEET
FTG.	FOOTING
GB	GRADE BEAM
GA.	GAGE; GAUGE
GALV.	GALVANIZED
HM	HOLLOW METAL
HS	HIGH STRENGTH
HEX. HD.	HEXAGONAL HEAD
HSS	HOLLOW STRUCTURAL SHAPE
HT.	HEIGHT
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IN.	INCH;INCHES
IBC	INTERNATIONAL BUILDING CODE
INT.	INTERIOR;INTERSECTION
JST.	JOIST
JT.	JOINT
K or k	KIP (1,000 LBS.)
K/FT	KIPS PER FOOT
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLO	LONG LEG OUTSTANDING
LLV	LONG LEG VERTICAL
LW	LONG WAY
LB.	POUND
LG.	LONG
LIN.	LINEAR
LL	LIVE LOAD
LT. WT.	LIGHT WEIGHT
MOS	MIDDLE OF SLAB
MOW	MIDDLE OF WALL
MATL.	MATERIAL
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MK	MARK
N/A	NOT APPLICABLE
N.F.	NEAR FACE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
N-S	NORTH-SOUTH
NCSBC	NORTH CAROLINA STATE BUILDING CODE
NO.	NUMBER
NOM.	NOMINAL
O/C	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG.	OPENING
OPP.	OPPOSITE
OH	OPPOSITE HAND
ORIG.	ORIGINAL
P/S	PRESTRESSED
P/T	POST-TENSIONING
PC	PRECAST CONCRETE
PCI	PRESTRESSED CONCRETE INSTITUTE
PEN.	PENETRATION
PERP.	PERPENDICULAR
PJP	PARTIAL JOINT PENTRATION
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTI	POST-TENSIONING INSTITUTE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RD	ROOF DRAIN
RAD.	RADIUS
REF.	REFERENCE
REINF.	REINFORCE(D); REINFORCING
REM.	REMAINING; REMAINDER
REQ'D.	REQUIRED
SJ	SAWED JOINT
S.S.	STAINLESS STEEL
SW	SHORT WAY
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLBB	SHORT LEGS BACK TO BACK
SLO	SHORT LEG OUTSTANDING
SOG	SLAB ON GRADE
SPEC(S).	SPECIFICATION(S)
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB; TOP OF STEEL
TOW	TOP OF WALL
T&B	TOP AND BOTTOM
TEMP.	TEMPORARY
THRU	THROUGH
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
W/O	WITHOUT
W/	WITH
WM	WOLMANIZED
WP	WORKING POINT
WWF	WELDED WIRE FABRIC
x	BY

SYMBOLS WITHIN TEXT

≈	APPROX. EQUAL
∠	ANGLE
℄	CENTERLINE
Δ	DELTA
≡	IDENTITY/EXACTLY EQUAL
≠	NOT EQUAL
#	NUMBER
Ω	OHM / OMEGA

SYMBOLS WITHIN NUMBERS

$\#^3$	CUBED
°	DEGREE(S)
∅	DIAMETER
±	PLUS/MINUS
$\#^2$	SQUARED

MATERIALS AND SYMBOLS LEGEND

PLAN SYMBOLS

- TOP OF CONC. (TOC) OR DECK ELEVATION
- SPOT ELEVATION: WORKING POINT (WP)
- NOTE MARKER (SEE NOTES)
- CONNECTION TYPE
- COLUMN DESIGNATION (SEE SCHEDULE)
- REPAIR TYPE
- REVISION MARK

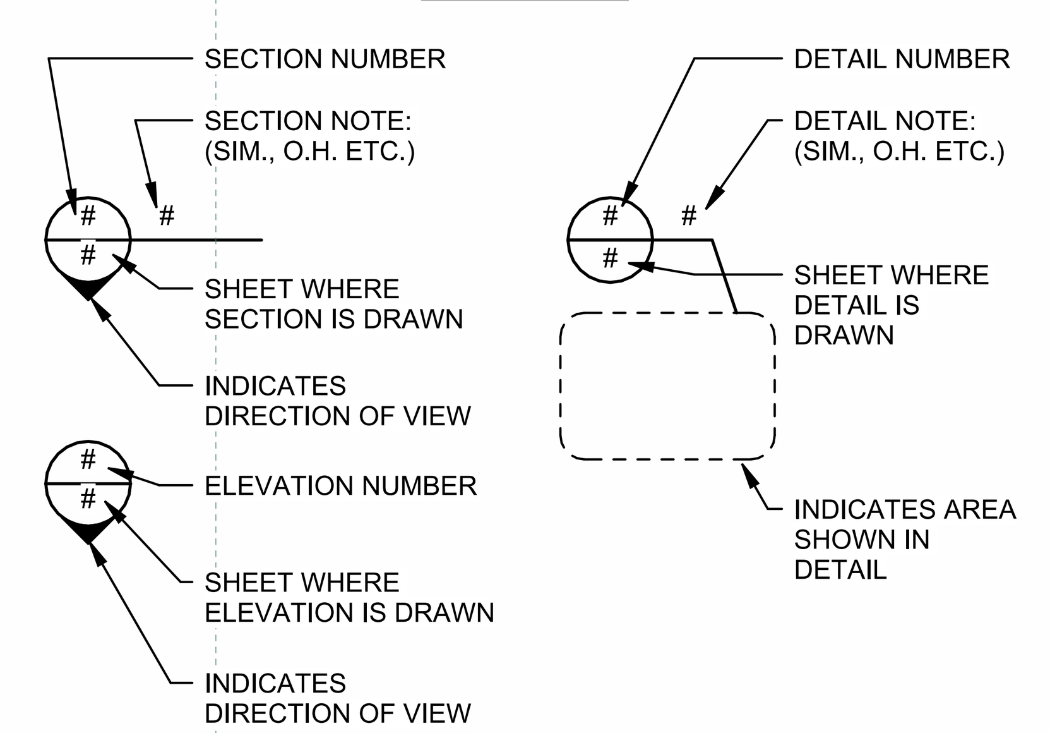
MATERIALS

- BRICK (SECTION)
- BRICK (ELEVATION)
- CONCRETE (SECTION)
- CMU (SECTION)
- CMU (ELEVATION)
- DEPTH" DEPRESSED SLAB AREA
- EARTH/SOIL
- FILL GROUT
- INSULATION (RIGID)
- INSULATION (BATT)
- PLYWOOD (LARGE SCALE)
- STEEL
- STONE FILL
- WOOD (FINISH)
- WOOD (ROUGH)
- PRECAST CONC.

SCHEDULED ITEMS

B...	COLUMN BASE PLATE
BP...	BEAM BEARING PLATE
C...	COLUMN
CB...	CONCRETE BEAM
CG...	CONCRETE GIRDER
CJ...	CONCRETE JOIST
CP...	CONCRETE PIER
DP...	DRILLED PIER
F....	SPREAD FOOTING
GB...	GRADE BEAM
L...	LINTEL
MF...	MAT FOOTING
MP....	MASONRY PIER
PC...	PILE CAP
PTB...	POST-TENSIONED CONC. BEAM
PTS...	POST-TENSIONED CONC. SLAB
S...	ELEVATED SLAB
SG...	SLAB-ON-GRADE
WF...	WALL FOOTING
WR....	RETAINING WALL FOOTING

VIEW SYMBOLS

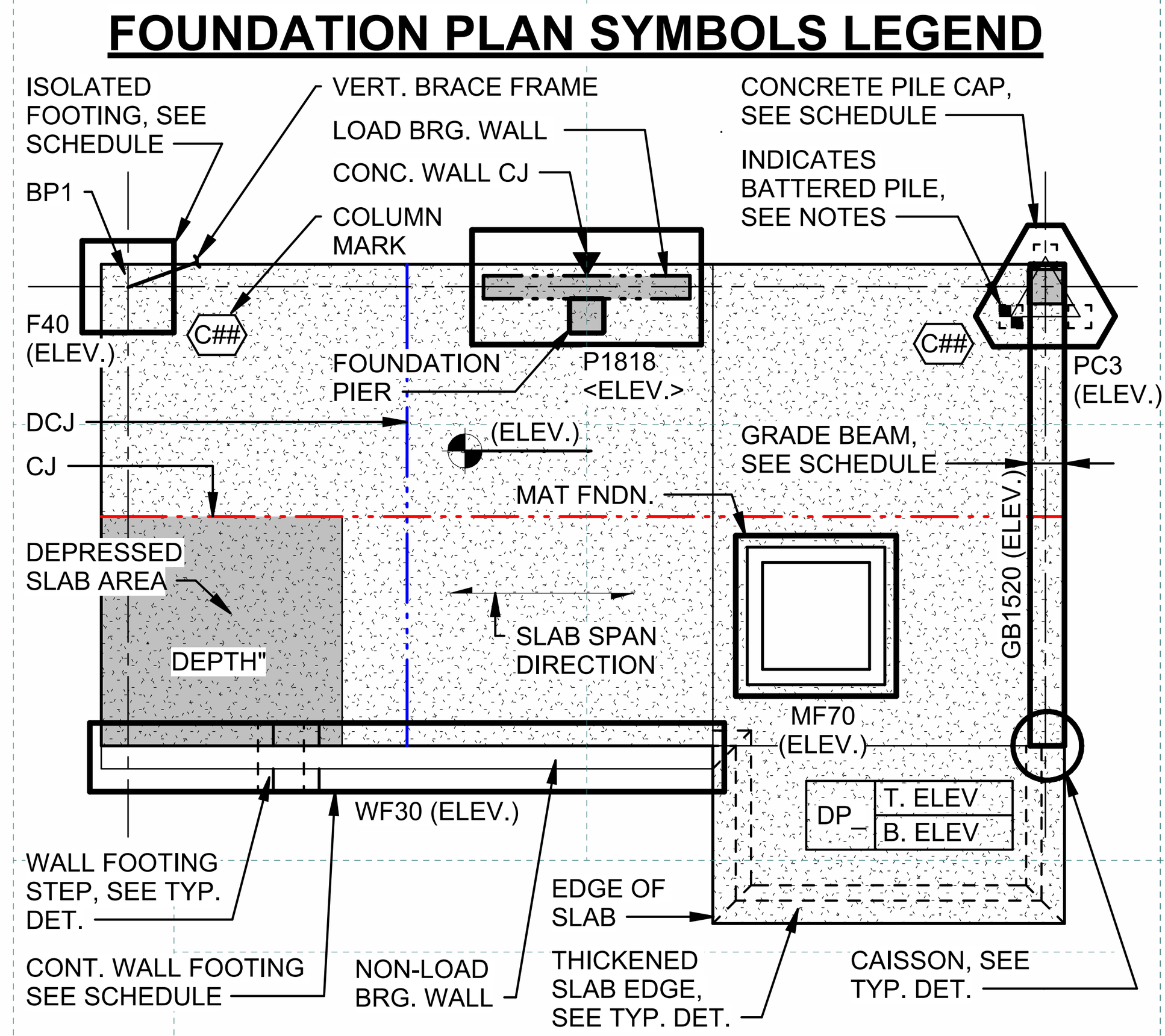


COLUMN GRID DESIGNATION

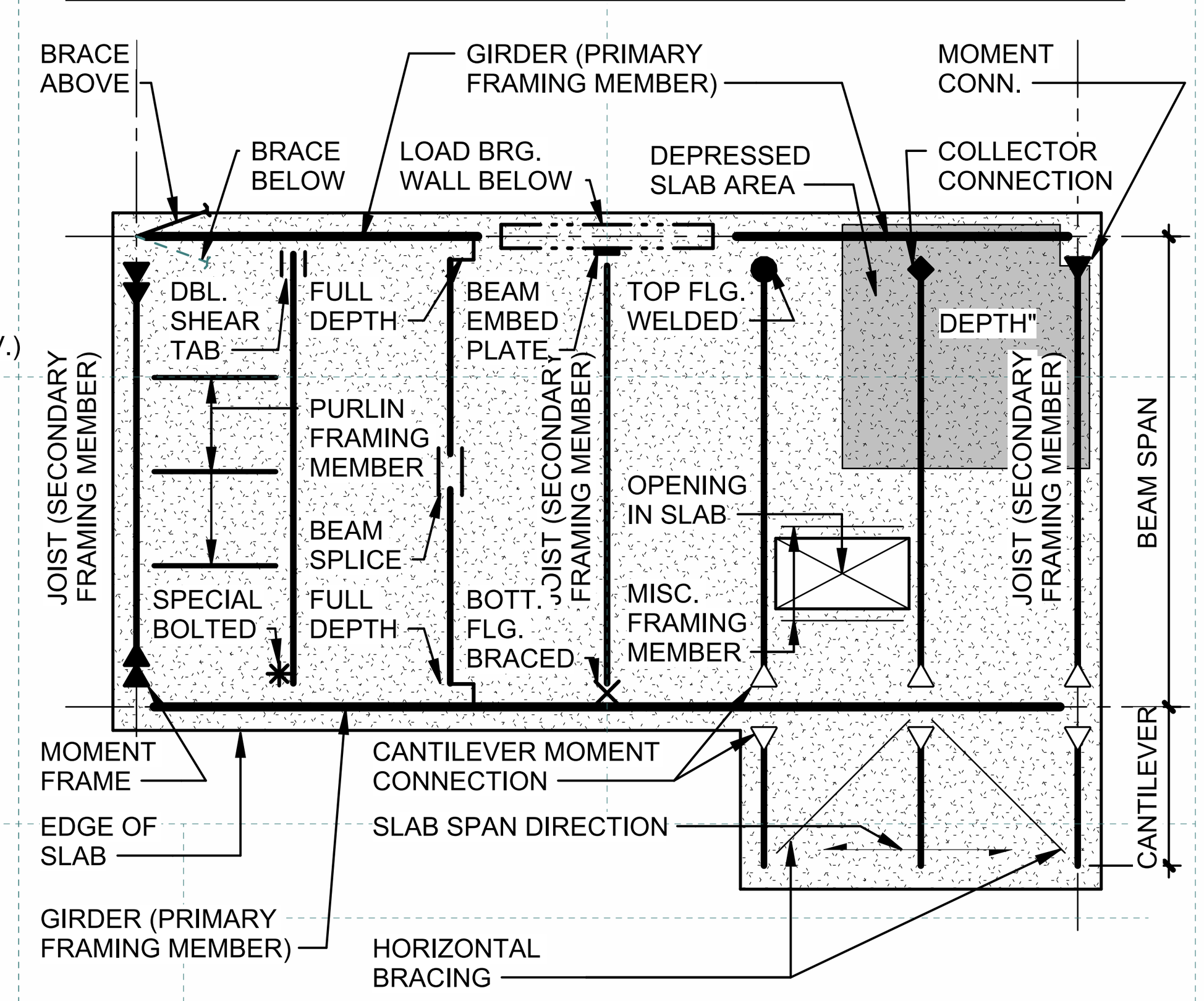
- NEW
- EXISTING

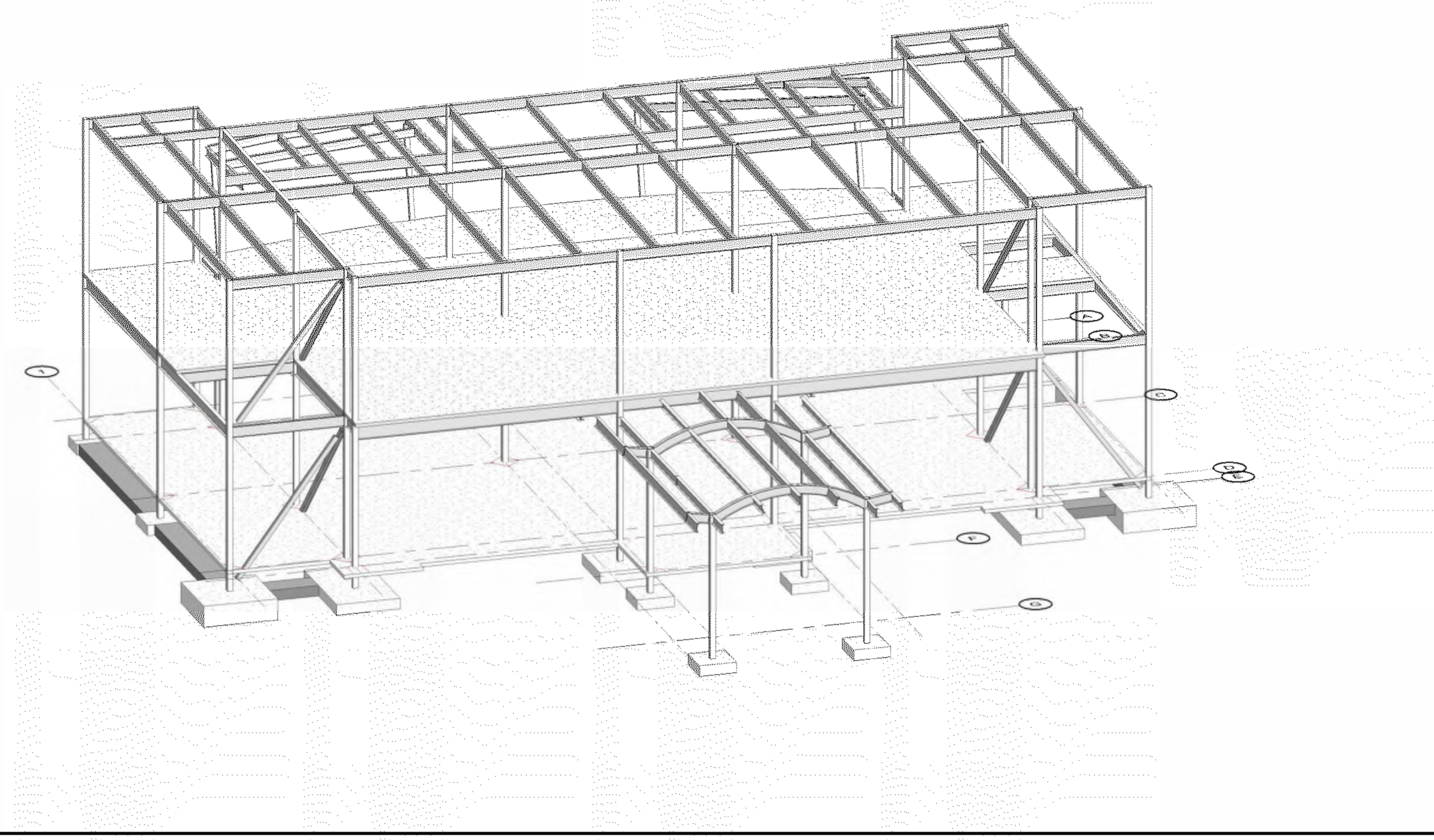
DRAWING INDEX

FOUNDATION PLAN SYMBOLS LEGEND



STEEL FRAMING CONN. SYMBOLS LEGEND





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NC License No. F-0508

SKA Project Number:230304
Plotted:

NOT FOR CONSTRUCTION

ECG Terminal Building
Elizabeth City, NC

MK	DATE	DESCRIPTION

REVISIONS

ABBREVIATIONS, DRAWING LEGENDS AND SHEET INDEX

DATE	7/12/2024
DRAWN BY	HJS
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SHEET	

S0.1

CONCRETE

1. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS UNLESS NOTED OTHERWISE IN THE PLANS OR SPECIFICATIONS.
   I
   - A. FOOTINGS AND PIERS....... ***3,000*** PSI
   - B. GRADE BEAMS AND FOUNDATION WALLS....... ***3,000*** PSI
   - C. SLABS ON GRADE....... ***3,000*** PSI
   - D. ELEVATED SLABS ON STEEL DECK....... ***4,000*** PSI
   - E. PERMANENTLY EXTERIOR EXPOSED CONCRETE....... ***4,000*** PSI
   - F. ALL OTHER CONCRETE....... ***3,000*** PSI
2. CONCRETE PERMANENTLY EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SHALL CONTAIN APPROXIMATELY 6% ENTRAINED AIR. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
3. CONCRETE SHALL BE BATCHED USING MATERIALS AND PROPORTIONS DESIGNATED IN THE APPROVED DESIGN MIXES. THE GENERAL CONTRACTOR SHALL PROVIDE QUALITY CONTROL OF THE CONCRETE MIX.
4. CONCRETE SLUMP SHALL BE AS INDICATED IN THE SPECIFICATIONS .
5. THE ADDITION OF WATER TO INCREASE SLUMPS ABOVE THE LEVEL SPECIFIED OR TO RETEMPER CONCRETE WHICH HAS EXPERIENCED SLUMP LOSS DUE TO EXCESSIVE MIXING OR HEAT BUILD-UP IS NOT PERMITTED.
6. CONCRETE SHALL BE HANDLED, PLACED, AND CONSOLIDATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
7. SEE SPECIFICATIONS FOR CURING AND HOT AND COLD WEATHER REQUIREMENTS FOR CONCRETE.
8. PROVIDE PRE-MOLDED EXPANSION-JOINT FILLER AT EDGES OF SLABS ON GRADE AGAINST VERTICAL SURFACES UNLESS NOTED OTHERWISE.
9. DOWELS FROM FOOTINGS SHALL BE ACCURATELY LOCATED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF THE CONCRETE. PLACEMENT OF DOWELS IN FRESH CONCRETE AFTER THE CONCRETE HAS BEEN PLACED WILL NOT BE PERMITTED. USE TEMPLATES FOR THE PLACEMENT OF DOWELS IN COLUMNS AND SHEAR WALLS.
10. THE CONTRACTOR SHALL USE INSTRUMENTS TO MAINTAIN A CONTINUOUS CHECK OF THE ELEVATIONS OF THE TOP SURFACES OF SLABS DURING THE PLACEMENT AND FINISHING OF THE CONCRETE. ADJUSTMENTS SHALL BE MADE TO MAINTAIN THE SURFACES WITHIN THE SPECIFIED TOLERANCES.
11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL ANCHOR BOLTS, CLIPS, INSERTS, SLEEVES AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN COOPERATION WITH OTHER TRADES PRIOR TO THE PLACING OF CONCRETE.
12. CONCRETE FORMWORK SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED SUFFICIENT STRENGTH TO NOT BE DAMAGED BY FORMWORK REMOVAL. SEE ALSO SPECIFICATIONS.

CONSTRUCTION

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE, OR LOSS.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT. SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED AT ALL TIMES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. THE DESIGNER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON NEW AND/OR EXISTING STRUCTURES. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING, AND REMOVING ANY SHORING AND BRACING REQUIRED DURING CONSTRUCTION, INCLUDING BRACING REQUIRED FOR SIDES OF EXCAVATIONS DURING FOUNDATION CONSTRUCTION AND TEMPORARY BRACING FOR WALLS.
8. THE CONTRACTOR SHALL INFORM THE DESIGNER, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY VIRTUE OF THE DESIGNER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE DESIGNER OF SUCH DEVIATION AT TIME OF SUBMISSION, AND THE DESIGNER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATION.
9. NO OPENINGS NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT WRITTEN APPROVAL OF THE DESIGNER.
10. WHERE CONSTRUCTION TOLERANCES ALLOW FOR VARIATIONS IN LOCATION, SIZE, ETC. OF STRUCTURAL ELEMENTS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR NECESSARY TO MODIFY CONNECTION ELEMENTS AS REQUIRED TO PROVIDE A FINISHED PRODUCT WHICH IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. ANY SUCH MODIFICATIONS REQUIRED SHALL BE REVIEWED AND APPROVED BY THE DESIGNER PRIOR TO EXECUTION.
11. THE DESIGNER SHALL BE NOTIFIED AT THE PROPER TIME WHEN ITEMS ARE READY FOR FIELD REVIEW. SUFFICIENT NOTICE SHALL BE GIVEN TO ALLOW SCHEDULING OF THE FIELD REVIEW.

DRAWINGS & COORDINATION

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND DRAWINGS OF OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS.
3. ANYTHING WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE PLANS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE CONSTRUCTION OF THE AFFECTED WORK MAY PROCEED.
4. DETAILS ARE MARKED AT THE SPECIFIC LOCATION WHERE THEY APPLY, BUT ALSO INDICATE GENERAL CONSTRUCTION REQUIREMENTS FOR OTHER LOCATIONS WITH SIMILAR CONDITIONS.
5. DETAILS NOTED AS "TYPICAL" MAY NOT BE REFERENCED ON THE DRAWINGS. TYPICAL DETAILS APPLY AT ALL LOCATIONS WHERE THE TYPE OF CONSTRUCTION SHOWN IN THE TYPICAL DETAIL OCCURS.

FOUNDATIONS

1. THE CONTRACTOR IS TO REVIEW THE SUBSURFACE EXPLORATION REPORT PERFORMED FOR THIS PROJECT **BY TERRACON (PROJECT NO. K5225059)** BEFORE COMMENCEMENT OF SITE GRADING TO BECOME GENERALLY FAMILIAR WITH SUBSURFACE CONDITIONS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. ALL SUBGRADE PREPARATION SHALL BE PERFORMED AS DEFINED IN THE PLANS AND SPECIFICATIONS AND IN COOPERATION WITH THE OWNER'S GEOTECHNICAL TESTING SERVICE.
2. SPECIAL FOUNDATIONS FOR THE SUPPORT OF MECHANICAL, ELECTRICAL, OR OTHER EQUIPMENT INSIDE OR OUTSIDE OF THE BUILDING SHALL BE DESIGNED BY THE EQUIPMENT SUPPLIER(S) AND REVIEWED BY THE STRUCTURAL ENGINEER FOR COMPATIBILITY WITH THE BUILDING FOUNDATION SYSTEM. DRAWINGS OF THE FOUNDATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE BUILDING IS LOCATED.
3. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEMS MAY BE INDICATED IN PART ON THE STRUCTURAL DRAWINGS TO SHOW APPROXIMATE LOCATIONS RELATIVE TO CERTAIN STRUCTURAL COMPONENTS. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEMS ARE NOT A PART OF THE STRUCTURAL DESIGN. SEE OTHER DRAWINGS FOR DESIGN REQUIREMENTS OF THESE SYSTEMS.
4. ALL FOOTINGS ARE DESIGNED TO BEAR ON RESIDUAL SOIL OR COMPACTED ENGINEERED FILL AND TO HAVE A MINIMUM BEARING CAPACITY AS LISTED UNDER "STRUCTURAL DESIGN DATA" IN THE GENERAL NOTES. FOOTING EXCAVATIONS ARE TO BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY FOR SUITABLE SOILS, BEARING PRESSURE, AND COMPACTION. COMPACTION OF SOIL UNDER FOOTINGS TO BE 100% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY.
5. SEE FOUNDATION PLAN NOTES FOR FURTHER REQUIREMENTS.

GALVANIZING

1. GALVANIZING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS:
   - A. AMERICAN GALVANIZERS ASSOCIATION:
   - B. SUGGESTED SPECIFICATION FOR HOT DIP GALVANIZING
   - C. AMERICAN SOCIETY FOR TESTING AND MATERIALS:
   - D. ASTM A 123 ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS
   - E. ASTM A 153 ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE
2. ALL STRUCTURAL STEEL MATERIALS AND ACCESSORIES WHICH ARE HOT-DIP GALVANIZED SHALL MEET SPECIFIED SPECIAL MATERIAL REQUIREMENTS.
3. THE FOLLOWING ITEMS SHALL BE GALVANIZED:
   - A. ALL STEEL MATERIAL THAT EITHER SUPPORTS OR IS BUILT INTO EXTERIOR EXPOSED MASONRY CONSTRUCTION, IS OUTSIDE THE BUILDING THERMAL AND MOISTURE BARRIERS, OR IS EXPOSED TO EXTERIOR WEATHER CONDITIONS.
   - B. ALL CONNECTION MATERIALS FOR GALVANIZED MEMBERS AND FOR PRECAST CONCRETE. CONNECTION MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO, NUTS, BOLTS, WASHERS, ANCHOR BOLTS, AND ITEMS EMBEDDED IN CONCRETE.
   - C. ITEMS NOTED ON DRAWINGS TO BE GALVANIZED.
4. GALVANIZED STEEL SHALL BE WELDED IN ACCORDANCE WITH AWS D19 - WELDING ZINC COATED STEEL BY THE AMERICAN WELDING SOCIETY. STEEL SURFACES SHALL BE FREE OF ZINC IN THE AREA TO BE WELDED.
5. AFTER GALVANIZED MATERIALS ARE INSTALLED, REPAIR DAMAGE AND EXTEND GALVANIZED COATING WITH SPECIFIED ZINC TOUCH-UP MATERIAL TO PROVIDE THE FULL SPECIFIED EXTENT OF ZINC COATING COVERAGE.
6. GALVANIZED COATING SHALL BE REPAIRED BY CLEANING SURFACE, POWER DISC SANDING TO BRIGHT METAL, AND APPLYING AN ORGANIC COLD GALVANIZING COMPOUND WITH A MINIMUM OF 94% ZINC DUST IN THE DRY FILM, 8 MILS MINIMUM DFT, THREE COATS MINIMUM.

LIGHT GAUGE METAL FRAMING

1. ALL LIGHT STRUCTURAL STEEL MEMBERS SHALL BE FORMED FROM STEEL SECTIONS THAT CONFORM TO THE SPECIFICATIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
2. ALL LIGHT STRUCTURAL STEEL MEMBERS SHALL HAVE A MINIMUM Fy = 50 KSI.
3. 6" STRUCTURAL WALL STUDS SHALL BE PRICED ON THE BASIS OF 600S162-54 CLARK DEITRICH STUDS @ 16" O/C.
4. FURNISH AND INSTALL CONTINUOUS MECHANICAL LATERAL BRACING AT 48 C/C OR AS REQUIRED BY THE STRUCTURAL WALL STUD MANUFACTURER UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
5. ALL LIGHT STRUCTURAL STEEL MEMBERS INDICATED ON STRUCTURAL DRAWINGS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS. DESIGN OF LIGHT-GAGE METAL FRAMING IS THE RESPONSIBILITY OF THE MANUFACTURER AND SHALL BE IN ACCORDANCE WITH THE LOADS AND CODES AND INDICATING IN THE STRUCTURAL DRAWINGS GENERAL NOTES. SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS SHOWING THE NUMBER, TYPE, LOCATION, SPACING AND GAGE OF ALL MEMBERS. SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY A ENGINEER IN THE STATE OF NORTH CAROLINA WITH EXPERIENCE IN THE DESIGN OF LIGHT-GAGE FRAMING SYSTEMS. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO STRUCTURAL ENGINEER OF RECORD.
6. ALL MEMBERS SHALL BE CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653 G60.

REINFORCING STEEL

1. DETAILING, FABRICATION, STORAGE, AND INSTALLATION OF REINFORCING, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315), BOTH BY THE AMERICAN CONCRETE INSTITUTE.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING STEEL WELDED TO EMBEDDED STEEL PLATES OR SHAPES SHALL CONFORM TO ASTM A706. DO NOT WELD REINFORCING BARS TO EACH OTHER.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. UNLESS NOTED OTHERWISE ON PLANS OR IN DETAILS, REINFORCING BARS MARKED ON THE PLANS AS BEING CONTINUOUS SHALL BE LAPPED AT SPLICE LOCATIONS AS SHOWN IN SCHEDULE. FOR SPLICES AT CORNERS OR INTERSECTIONS OF WALLS AND BEAMS, SEE TYPICAL DETAILS.
5. REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, LOOSE RUST, CEMENT GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT BOND BETWEEN THE STEEL AND THE CONCRETE.
6. REINFORCING SHALL BE SECURELY TIED AND ANCHORED IN PLACE BEFORE CONCRETE PLACEMENT TO PREVENT DISLOCATION.
7. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE ON REINFORCING STEEL SHALL BE AS FOLLOWS:
   - A. FOOTINGS - ALL FACES....... 3"
   - B. GRADE BEAMS - TOP....... 1.5"
   - C. GRADE BEAMS - FORMED SURFACES....... 2"
   - D. GRADE BEAMS - SURFACES AGAINST SOIL....... 3"
   - E. SLAB-ON-GRADE - TOP....... 1"
   - F. SLAB-ON-GRADE - BOTTOM....... 2"
   - G. PIERS....... 2"
   - H. COLUMNS - INTERIOR....... 1-1/2"
   - I. BEAMS -INTERIOR....... 1-1/2"
   - J. SLABS - INTERIOR....... 3/4" (TOP)
   - K. WALLS - EXPOSED TO SOIL....... 2"
   - L. WALLS - NOT EXPOSED TO SOIL - INTERIOR....... 3/4"
   - M. PAN JOISTS....... 3/4"
   - N. COMPOSITE TOPPING....... 3/4" (TOP)
8. BARS SHALL BE BENT ONLY USING APPROVED METHODS. BARS SHALL NOT BE BENT AFTER PARTIAL EMBEDMENT IN HARDENED CONCRETE.

STRUCTURAL STEEL

1. ROLLED STEEL W-SHAPES SHALL CONFORM TO ASTM A992, GRADE 50, FY=50 KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE-E, GRADE-B, FY=35 KSI. COLD FORMED STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE-B, FY=46 KSI. ALL OTHER ROLLED STEEL SHAPES, PLATES, AND BARS, SHALL CONFORM TO ASTM A36, FY=36 KSI. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36.
2. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS, COMMENTARY, AND CODE OF STANDARD OF PRACTICE.
3. CONNECTIONS NOT DETAILED ON THE PLANS SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR AND APPROVED BY THE DESIGNER. CONNECTION DESIGNS SHALL COMPLY WITH THE REQUIREMENTS OF THE OF THE GOVERNING BUILDING CODE AND "AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, AISC 341-10 & AISC 341S1-10".
4. WELDS:
   - A. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE - STEEL BY THE AMERICAN WELDING SOCIETY FOR THE MATERIAL BEING WELDED. WELDS SHALL BE MADE USING E70XX LOW-HYDROGEN ELECTRODES UNLESS OTHERWISE NOTED.
   - B. GALVANIZED STEEL SHALL BE WELDED IN ACCORDANCE WITH AWS D1.9 - WELDING ZINC COATED STEEL BY THE AMERICAN WELDING SOCIETY. STEEL SURFACES SHALL BE FREE OF ZINC IN THE AREA TO BE WELDED.
   - C. WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED BY TESTS AS PRESCRIBED IN AWS D1.1 BY THE AMERICAN WELDING SOCIETY, TO PERFORM THE TYPE OF WORK REQUIRED.
   - D. ALL SHOP WELDS SHALL BE A MINIMUM 3/16" AND ALL FIELD WELDS SHALL BE A MINIMUM 1/4", UNLESS NOTED OTHERWISE. INDICATED WELDING OF CONNECTED PARTS SHALL BE "CONTINUOUS" OR "ALL AROUND" AS APPLICABLE, UNLESS NOTED OTHERWISE.
   - E. WELDS SHALL BE CLEANED AND TOUCHED UP WITH THE APPROPRIATE PAINT OR ZINC COATING.
   - F. PROVIDE SEAL WELDS ON ALL WELDED STEEL JOINTS EXPOSED TO VIEW, MOISTURE, OR CORROSIVE CONDITIONS WHICH WOULD NOT OTHERWISE BE WELDED FOR STRENGTH.
5. BOLTED CONNECTIONS SHALL BE MADE USING HIGH-STRENGTH BOLTS, 3/4" DIAMETER CONFORMING TO ASTM A325N, UNLESS OTHERWISE NOTED ON PLAN. SEE SPECIFICATIONS FOR BOLT TIGHTENING METHODS.
6. SPLICES FOR ALL STEEL MEMBERS NOTED AS "CONTINUOUS" SHALL OCCUR OVER SUPPORTING MEMBERS.
7. PROVIDE ADEQUATE SEPARATION BETWEEN STRUCTURAL STEEL AND ALUMINUM AND OTHER DISSIMILAR METALS TO PREVENT GALVANIC CORROSION. SEPARATION MATERIALS SHALL BE ADEQUATE TO TRANSFER LOADS.
8. ALL STEEL WHICH IS PERMANENTLY EXPOSED TO NORMAL VIEW BY PEDESTRIANS OR OCCUPANTS SHALL BE CLASSIFIED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AS DEFINED BY THE AISC CODE OF STANDARD PRACTICE.
9. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

SUBMITTAL NOTES

1. ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL. SUBMITTAL WITHOUT CONTRACTOR REVIEW WILL RESULT IN DELAYS. THE CONTRACTOR SHALL CONFIRM THAT SHOP DRAWINGS HAVE BEEN COMPLETED AND CHECKED BY THE SUPPLIER PRIOR TO SUBMISSION.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN ELECTRONIC FORMAT.
3. SHOP DRAWINGS SUBMITTALS REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL SPECIFICATIONS. CHANGES OR ADDITIONS MADE ON RESUBMITTED SHOP DRAWINGS SHALL BE CLEARLY INDICATED, AND THE PURPOSE OF THE RESUBMITTAL SHALL BE NOTED ON THE TRANSMITTAL. REVIEW OF THE RESUBMITTED SHOP DRAWINGS SHALL BE LIMITED SPECIFICALLY TO THE ITEMS NOTED FOR CORRECTION ON THE PREVIOUS SUBMITTAL.
4. THE GENERAL CONTRACTOR SHALL SUBMIT THE FOLLOW SHOP DRAWINGS FOR STRUCTURE ENGINEER AND ARCHITECT REVIEW:
   - CONCRETE MIX DESIGN
   - REINFORCING STEEL
   - STRUCTURAL STEEL (A)
   - STEEL STAIRS/LADDERS (A)(C)
   - COLD FORMED METAL FRAMING (A)(C)
5. THE NOTATIONS FOLLOWING SUBMITTAL ITEMS INDICATE THE FOLLOWING:
   - A. INCLUDE A CERTIFICATE OF COMPLIANCE WITH CONTRACT DOCUMENTS SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THE DESIGN.
   - B. SUBMIT ONE COPY FOR INFORMATION AND RECORD ONLY.
   - C. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER THAT IS REGISTERED IN THE STATE WHERE THE BUILDING IS LOCATED.
6. MANUFACTURER'S LITERATURE: SUBMIT ELECTRONIC COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION OF PROJECT.
7. THE ENGINEERS'S REVIEW OF SHOP DRAWINGS IF FOR GENERAL CONFORMANCE OF THE DESIGN CONCEPT. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWINGS SUBMITTALS THAT IS ACCEPTABLE TO BOTH CONTRACTOR AND ENGINEER. AFTER THE CONTRACTOR HAS REVIEW THE SHOP DRAWINGS, PROMPT REVIEW BY THE ENGINEER WILL BE MADE OF ALL SUBMITTALS FOR LARGE SUBMITTALS, REASONABLE REVIEW TIME SHALL BE ALLOW AND MAY EXCEED TWO WEEKS. THE CONCURRENT SUBMITTAL OF MULTIPLE SHOP DRAWINGS ("DUMPING") WILL FURTHER EXTEND THE REVIEW PROCESS AND TIME FRAME NECESSARY TO PROPERLY REVIEW EACH SUBMITTAL.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROPER CHECKING AND COORDINATION OF DETAILS, DIMENSIONS, SIZES AND QUANTITIES AS REQUIRED TO FACILITATE COMPLETE AND ACCURATE FABRICATION AND ERECTION.
9. REPRODUCTION OF THESE CONTRACT DOCUMENTS FOR USE IN SHOP DRAWINGS IS NOT PERMITTED.

STRUCTURAL DESIGN DATA

1. CODES AND STANDARDS:
   - A. **2018 N. C. REVISIONS TO THE 2015 INTERNATIONAL BUILDING CODE**
   - B. MIN. DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10.
   - C. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14.
   - D. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530-13.
   - E. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-10.
   - F. AF&PA - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
2. FOUNDATIONS:
   - A. FOOTINGS - ALLOWABLE SOIL BEARING PRESSURE...... **2,000** PSF
3. GRAVITY LOADS:
   - A. FLOOR LIVE LOADS:
     1. OFFICES....... **50** PSF
     2. CORRIDORS....... **80** PSF
     3. ALL OTHER (INC. 15 PSF FOR MOVEABLE PARTITIONS)....... **50** PSF
   - B. ROOF LIVE LOAD (MINIMUM)....... **20** PSF
   - C. ROOF SNOW LOADS:
     1. GROUND SNOW LOAD....... **10** PSF
     2. FLAT ROOF SNOW LOAD....... **10** PSF
     3. RISK CATEGORY....... **II**
     4. IMPORTANCE FACTOR....... **1.0**
     5. Ce....... **0.9**
     6. Ct....... **1.0**
   - D. OTHER DEAD LOADS: PER CONSTRUCTION SHOWN ON DWGS
4. WIND LOADS:
   - A. ULTIMATE WIND SPEED....... **123** MPH
   - B. RISK CATEGORY....... **II**
   - C. IMPORTANCE FACTOR....... **1.0**
   - D. EXPOSURE CATEGORY....... **D**
   - E. INTERNAL PRESSURE COEFFICIENT....... **+/- 0.18**
   - F. COMPONENTS & CLADDING DESIGN PRESSURES (MIN. TRIBUTARY AREAS):
     1. ZONE 1 - ROOF....... **-51.1** PSF
     2. ZONE 2 - ROOF EDGE....... **-80.3** PSF
     3. ZONE 3 - ROOF CORNER....... **-109.4** PSF
     4. ZONE 4 - WALL....... **-34.9/+34.9** PSF
     5. ZONE 5 - WALL CORNER....... **-64.1/+34.9** PSF
5. EARTHQUAKE LOADS:
   - A. MAPPED SPECTRAL RESPONSE ACCELERATION:
     1. SHORT PERIOD....... SS = **0.091**
     2. SECOND PERIOD....... S1 = **0.048**
   - B. DESIGN SPECTRAL RESPONSE ACCELERATION:
     1. SHORT PERIOD....... SDS = **0.097**
     2. SECOND PERIOD....... SD1 = **0.077**
   - C. SITE CLASS....... **D**
   - D. RISK CATEGORY....... **II**
   - E. IMPORTANCE FACTOR....... **1.0**
   - F. SEISMIC DESIGN CATEGORY....... **B**
   - G. SEISMIC FORCE RESISTING SYSTEM
     1. BEARING WALLS - ORDINARY PLAIN MASONRY SHEAR WALLS
     2. RESPONSE MODIFICATION COEFFICIENT (R)....... **3**
     3. SYSTEM OVERSTRENGTH FACTOR (ΩO)....... **3**
     4. DEFLECTION AMPLITUDE FACTOR (Cd)....... **3**
     5. SEISMIC RESPONSE COEFFICIENT (Cs)....... **0.032**
   - H. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE

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SKA Project Number:230304
Plotted:

NOT FOR CONSTRUCTION

ECG Terminal Building

Elizabeth City, NC

MK DATE DESCRIPTION
REVISIONS

GENERAL NOTES

DATE 7/12/2024
DRAWN BY HJS
CHECK BY MTM
JOB NO. 023-031
SHEET

S0.2

SLAB-ON-GRADE NOTES

1. UNLESS OTHERWISE NOTED, THE CONCRETE SLAB-ON-GRADE SHALL COMPLY WITH THE FOLLOWING:
   - THICKNESS: 4"
   - REINFORCING: 6 x 6 - W2.9 x W2.9 W.W.F. IN MATS, NOT ROLLS, PLACED 1" CLEAR FROM TOP SURFACE
   - VAPOR BARRIER: SEE ARCHITECTURAL DRAWINGS
   - STONE BASE: 4" COMPACTED WASHED STONE
2. SEE CONCRETE FRAMING PLAN SYMBOLS LEGEND ON SHEET S0.1 FOR SYMBOLS USED ON THIS PLAN:
3. SEE MATERIALS AND SYMBOL LEGEND ON SHEET S0.1 FOR SCHEDULE KEY FOR ALL SCHEDULED ITEMS USED ON THIS PLAN:
4. JOINTS:
   A. SLAB CONSTRUCTION JOINTS SHALL BE LOCATED AT INDICATED CONTROL JOINT LOCATIONS. ALL CONSTRUCTION JOINTS SHALL HAVE DOWELS.
   B. COORDINATE ALL SLAB JOINT LOCATIONS WITH JOINTS IN ARCHITECTURAL FLOOR FINISHES TO ASSURE THAT ALIGNMENT IS APPLICABLE.
5. SLAB DEPRESSIONS: DEPRESSED AREAS ARE SHOWN ON THE PLAN FOR ESTIMATING PURPOSES ONLY. LOCATIONS AND DEPTHS OF ALL SLAB DEPRESSIONS SHALL BE DETERMINED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
6. SLAB SLOPES: SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR DRAINS AND SLOPED SLAB AREAS. SLOPE SURFACE UNIFORMLY TO DRAIN. SLOPED SLABS WHICH POND WATER SHALL BE REPLACED.
7. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO SLABS-ON-GRADE INCLUDING THOSE INDICATED BELOW:

   "SLAB-ON-GRADE JOINTS"
   "SLAB-ON-GRADE REINFORCING"
   "DEPRESSION AT SLAB-ON-GRADE"

SPREAD FOOTING NOTES

1. COLUMN FOOTINGS: SEE FOOTING SCHEDULE.
2. SEE CONCRETE FRAMING PLAN SYMBOLS LEGEND ON SHEET **S0.1** FOR SYMBOLS USED ON THIS PLAN:
3. SEE MATERIALS AND SYMBOL LEGEND ON SHEET **S0.1** FOR SCHEDULE KEY FOR ALL SCHEDULED ITEMS USED ON THIS PLAN:
4. WALL FOOTINGS: SEE FOUNDATION PLAN.
5. FOOTING ELEVATIONS SHOWN ON PLAN ARE FOR ESTIMATING PURPOSES AND MAY BE VARIED TO SUIT SITE, SOIL, OR UNDERGROUND UTILITY CONDITIONS AS FOLLOWS:
   A. THE TOP OF ALL EXTERIOR FOOTINGS ARE TO BE A MINIMUM OF 1'-0" BELOW THE FINISH GRADE, COORDINATE WITH SITE PLAN. IN NO CASE SHALL TOP OF FOOTING ELEVATIONS BE HIGHER THAN INDICATED ON PLAN. PRIOR TO CONSTRUCTION, NOTIFY THE ENGINEER OF ALL FOOTING ELEVATIONS THAT VARY FROM THOSE SHOWN ON THE PLAN.
   B. COORDINATE FOOTING ELEVATIONS WITH UNDERGROUND UTILITIES. UNDERGROUND UTILITIES WHICH CROSS WALL FOOTINGS SHALL CROSS AT AN ANGLE OF NO MORE THAN 45 DEGREES FROM PERPENDICULAR. UNLESS OTHERWISE SHOWN OR APPROVED BY THE DESIGNER, THE MINIMUM CLEARANCE OF UNDERGROUND PIPES AND UTILITIES WHICH CROSS BELOW WALL FOOTINGS SHALL BE 8", OTHERWISE THE FOOTING SHALL BE STEPPED DOWN SO THAT THE PIPES MAY PASS ABOVE THE FOOTING AND THROUGH THE WALL. ANY PIPES WHICH MUST PASS UNDERNEATH A WALL FOOTING ARE TO BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE FOOTING AND THE TRENCH BACKFILLED AND COMPACTED AS REQUIRED.
   C. UNLESS OTHERWISE APPROVED BY THE DESIGNER, NO EXCAVATION SHALL OCCUR BELOW A SPREAD FOOTING WITHIN A ZONE DEFINED BY A PLANE SLOPING DOWNWARD AT A 1:1 SLOPE FROM THE BOTTOM EDGES OF THE FOOTING ON ALL SIDES.
6. ALL FOOTING REINFORCING SHALL BE SUPPORTED ON THE SPECIFIED CHAIRS ON THE SOIL AND SHALL BE SECURED AGAINST LATERAL MOVEMENT.
7. IF RAINFALL OR GROUNDWATER INTRUSION IS IMMINENT BEFORE PLACEMENT OF CONCRETE IN FOOTING EXCAVATIONS, A 2" THICK "MUD MAT" OF LEAN CONCRETE SHALL BE PLACED IN THE EXCAVATION AFTER OVEREXCAVATING 2" IN DEPTH. FOR LIGHT PRECIPITATION CONDITIONS, PROTECT BOTTOM AND SIDES OF EXCAVATION WITH TEMPORARY 6 MIL POLYETHYLENE LINING. ANY SOIL WHICH IS SOFTENED DUE TO MOISTURE EXPOSURE SHALL BE UNDERCUT TO FIRM SOIL AND THE DEPTH OF THE FOOTING SHALL BE INCREASED TO REPLACE THE SOFT SOIL THAT WAS REMOVED.
8. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO FOOTINGS INCLUDING THOSE INDICATED BELOW:

   "COLUMN BASE & ISOLATION JOINT"
   "STEPPED FOOTING DETAIL"
   "WALL FOOTING CONSTRUCTION JOINT"

CONCRETE FLOOR SLAB NOTES

1. THE FLOOR SLAB SHALL BE 2-1/2" THICK NORMAL WEIGHT CONCRETE PLACED ON A 1.5" DEEP, 20 GAUGE, GALVANIZED, COMPOSITE STEEL FORM DECK (4" TOTAL THICKNESS).
2. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ELEVATED CONCRETE FLOOR SLABS INCLUDING THOSE INDICATED BELOW:
   A. "SLAB REINFORCING SECTION"
   B. "SECTION THROUGH COMPOSITE SLABS AND BEAMS"
   C. "SLAB EDGE PLATE"
   D. "OPENING IN FLOOR SLAB"
3. FLOOR DECK:
   A. NO SHORES ARE REQUIRED FOR THE DECK UNLESS NOTED OTHERWISE. THE DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS. WHERE FRAMING CONDITIONS DO NOT PERMIT THREE SPAN DECK INSTALLATION, ADD SHORES AT MIDSPAN OF DECK.
   B. THE DECK SHALL BE FASTENED TO THE STEEL SUPPORTS WITH WELDED STUDS OR 5/8" DIA. PUDDLE WELDS AT A MAX. SPACING OF 12" O/C ALL SIDELAPS BETWEEN DECK UNITS SHALL BE CONNECTED TO PREVENT DIFFERENTIAL DEFLECTION OF ADJACENT UNITS DURING THE CONCRETE POUR. ALL EDGES OF THE DECK SHALL BE CONTINUOUSLY SUPPORTED; INSTALL MISCELLANEOUS STEEL AS REQUIRED.
4. SLAB REINFORCING: SEE TYPICAL DETAILS FOR SLAB REINFORCING. SEE FLOOR PLAN FOR SPECIAL REINFORCING REQUIREMENTS. SEE TYPICAL DETAILS FOR ADDITIONAL SLAB REINFORCING AT OPENINGS.
5. CONDUIT AND PIPES PLACED HORIZONTALLY WITHIN FLOOR SLAB SHALL MEET THE, SIZE, SPACING, AND PLACEMENT REQUIREMENTS SPECIFIED FOR CONCRETE REINFORCING STEEL. DO NOT CUT OR RELOCATE REINFORCING BARS FOR PIPE OR CONDUIT INSTALLATION. NOTIFY ENGINEER OF CONDITIONS WHERE CONDUIT AND REINFORCING BARS ARE IN CONFLICT. (COORDINATE ABOVE NOTE WITH THE P, M, E, & FP DOCUMENTS.)
6. SUSPENDED LOADS: ANCHORS FOR SUSPENDED LOADS SHALL BE INSTALLED IN THE BOTTOM RIB. DO NOT CUT REINFORCING STEEL TO INSTALL ANCHORS.
7. SLAB DEPRESSIONS: DEPRESSED AREAS ARE SHOWN ON THE PLAN FOR ESTIMATING PURPOSES ONLY. LOCATIONS AND DEPTHS OF ALL SLAB DEPRESSIONS SHALL BE DETERMINED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
8. SLAB SLOPES: SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR DRAINS AND SLOPED SLAB AREAS. SLOPE SURFACE UNIFORMLY TO DRAIN. SLOPED SLABS WHICH POND WATER SHALL BE REPLACED.
9. SLAB OPENINGS:
   A. THE FRAMING PLANS DO NOT SHOW ALL FLOOR OPENINGS. COORDINATE THE REQUIREMENTS FOR SLAB OPENINGS WITH DRAWINGS OF OTHER TRADES. LOCATE ALL OPENINGS BETWEEN FRAMING MEMBERS. DO NOT CUT FRAMING MEMBERS TO INSTALL OPENINGS.
   B. FLOOR PENETRATIONS 6" OR LESS IN DIAMETER MAY BE CORE DRILLED PROVIDED SLAB REINFORCING STEEL IS NOT CUT. PRIOR TO CUTTING, LOCATE SLAB REINFORCING STEEL BY PROBE DRILLING ON PERIMETER OF PROPOSED CORE LOCATION WITH SMALL DIAMETER DRILL BIT. IF REINFORCING IS ENCOUNTERED, OFFSET CORE LOCATION TO AVOID CUTTING REINFORCING STEEL.
   C. SLAB PENETRATIONS SHALL BE SPACED NO CLOSER THAN 3 X LARGER OPENING DIMENSION ON CENTER.
   D. FLOOR PENETRATIONS LARGER THAN 6" SHALL BE FORMED. FLOOR PENETRATIONS LARGER THAN 12" SHALL BE RECEIVE STEEL FRAME PER TYPICAL DETAIL.

ROOF FRAMING PLAN NOTES

1. ELEVATIONS:
   A. THE REFERENCE ELEVATION (0'-0") FOR ALL ELEVATIONS SHOWN ON THE ROOF PLANS SHALL BE THE TOP OF THE FIRST FLOOR SLAB-ON-GRADE. SEE SITE PLAN FOR SPECIFIED ELEVATION OF FIRST FLOOR.
2. SEE CONCRETE FRAMING PLAN SYMBOLS LEGEND, JOISTS FRAMING SYMBOLS LEGEND AND STEEL FRAMING CONNECTIONS SYMBOLS LEGEND ON SHEET **S0.1** FOR SYMBOLS USED ON THIS PLAN:
3. SEE MATERIALS AND SYMBOL LEGEND ON SHEET **S0.1** FOR SCHEDULE KEY FOR ALL SCHEDULED ITEMS USED ON THIS PLAN.
4. SUSPENDED LOADS:
   A. ALL LOADS SUSPENDED FROM THE ROOF FRAMING SHALL BE CONNECTED TO THE MAIN FRAMING MEMBERS ONLY. NO LOADS SHALL BE SUSPENDED FROM THE ROOF DECK OR BAR JOIST BRIDGING. SEE TYPICAL DETAIL FOR ATTACHMENT OF SUSPENDED LOADS TO BAR JOISTS.
   B. SUSPENDED LOADS SHALL BE EVENLY DISTRIBUTED TO THE STRUCTURE ABOVE BY HANGER ASSEMBLY.
   C. PRIOR TO INSTALLING SUSPENDED EQUIPMENT WEIGHING MORE THAN 500 POUNDS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE WEIGHT, LOCATION, AND HANGER POINT LOCATIONS.
5. ROOF DECK:
   A. UNLESS OTHERWISE NOTED, ROOF DECK SHALL BE 1-1/2", 22 GA., TYPE-B, WIDE RIB. ALL ROOF DECK SHALL BE GALVANIZED. SEE ROOF DECK PLAN AND TYPICAL ROOF DECK FASTENER LAYOUT FOR DECK ATTACHMENT.
   B. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ROOF DECKING INCLUDING THOSE INDICATED BELOW:
      a. "ROOF DECK FASTENER LAYOUT"
      b. "FRAMED ROOF OPENING DETAIL"
   C. WHEREVER POSSIBLE, DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS.
   D. ALL EDGES OF ROOF DECK SHALL BE CONTINUOUSLY SUPPORTED, INSTALL MISCELLANEOUS STEEL AS REQUIRED.
   E. COORDINATE WITH RELATED DRAWINGS THE SIZE AND LOCATION OF ANY OPENINGS REQUIRED THROUGH ROOF DECK, WHETHER SHOWN ON THE STRUCTURAL PLAN OR NOT. FRAME ALL OPENINGS GREATER THAN 6", INCLUDING ROOF DRAINS, WITH ANGLE FRAME. SEE TYPICAL DETAIL.
6. ROOF BEAMS:
   A. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO STEEL BEAMS INCLUDING THOSE INDICATED BELOW:
      - "FRAMED BEAM CONNECTION"
      - "THROUGH PLATE CONNECTION DETAIL"
      - "MOMENT CONNECTION"
      - "STEEL BEAM CONTINUOUS OVER COLUMN"

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	BOTT. REINFORCING QUA.	BOTT. REINFORCING SIZE	BOTT. REINFORCING SPACING	TOP REINFORCING QUA.	TOP REINFORCING SIZE	TOP REINFORCING SPACING	REMARKS
F25	2'-6"	2'-6"	1'-0"	(3)	#5	EA. WAY				--
F35	3'-6"	3'-6"	1'-0"	(4)	#5	EA. WAY				--
F55	5'-6"	5'-6"	1'-0"	(6)	#5	EA. WAY				--
F65	6'-6"	6'-6"	1'-0"	(7)	#5	EA. WAY				--
F70	7'-0"	7'-0"	2'-0"	(9)	#6	EA. WAY	(5)	#6	EA. WAY	--
F95	9'-6"	9'-6"	2'-0"	(12)	#6	EA. WAY	(6)	#6	EA. WAY	--
F60100	6'-0"	10'-0"	1'-0"	(6) (10)	#5 #5	SHORT WAY/ LONG WAY				--

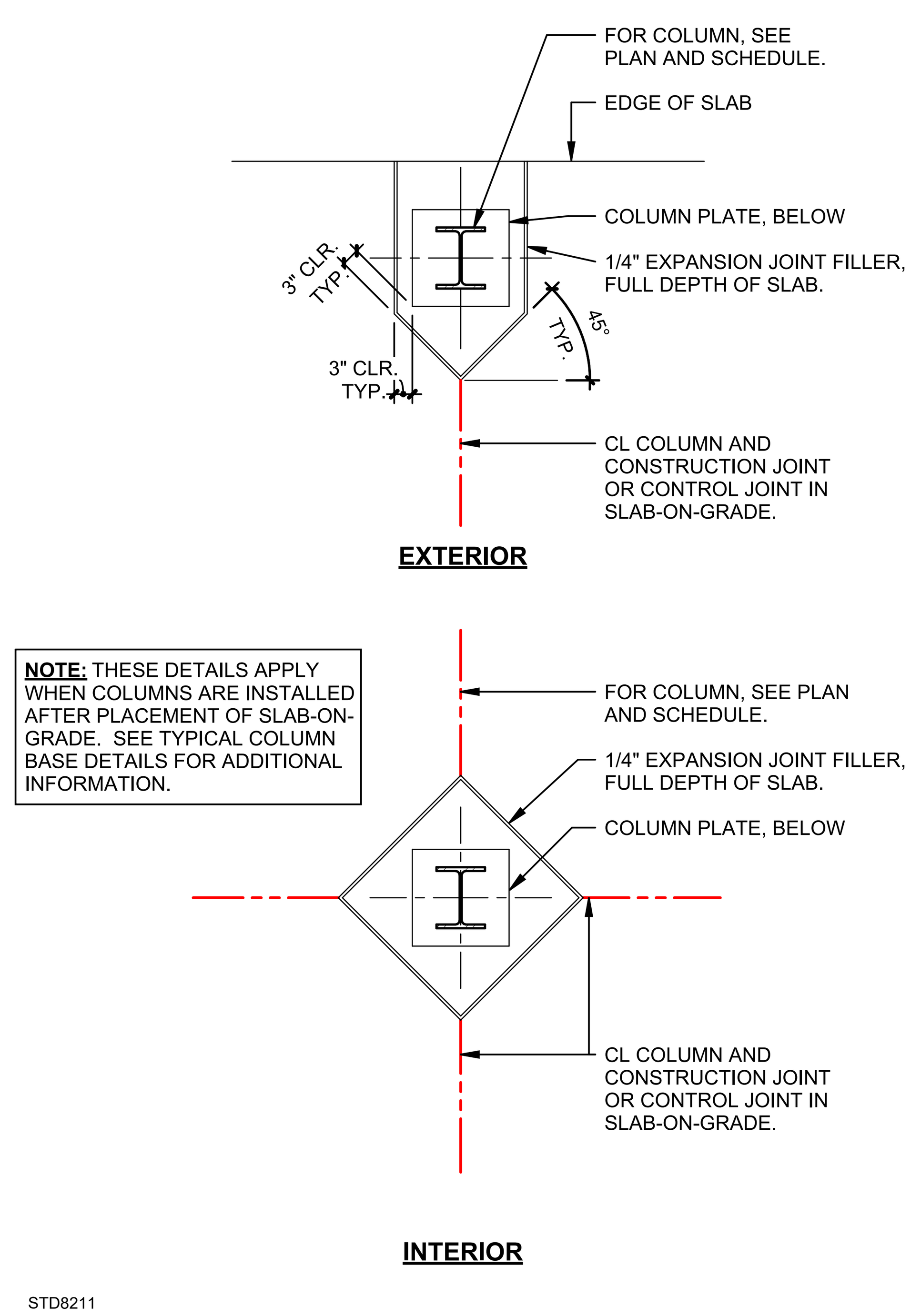
FOOTING SCHEDULE NOTES

GENERAL NOTES:

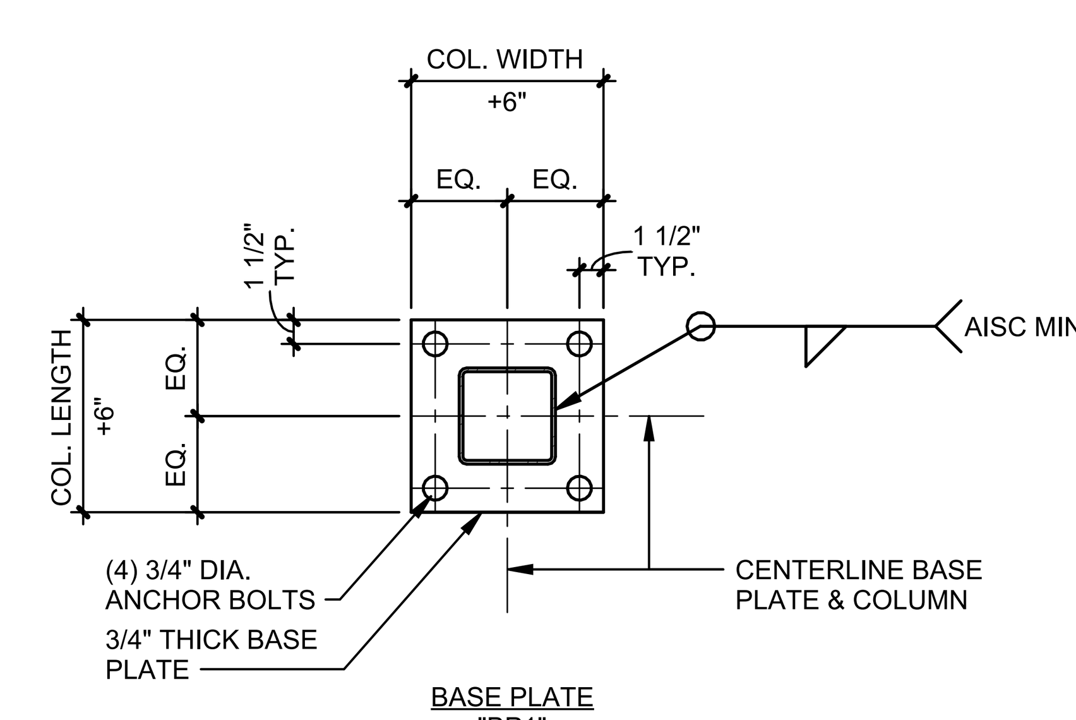
1. FOOTING MARKS "F__" DESIGNATE THE PLAN SIZE OF THE FOOTING IN TENTHS OF A FOOT. RECTANGULAR FOOTINGS ARE NOTED WITH A DUAL DESIGNATION. VARIATIONS OF FOOTINGS WITH THE SAME PLAN DIMENSIONS ARE IDENTIFIED WITH A SUFFIX IN PARENTHESIS (-).
2. SEE DETAIL: "TYPICAL COLUMN FOOTING AND ISOLATION JOINT".
3. UNLESS NOTED OTHERWISE, CENTER FOOTING BELOW COLUMN OR COLUMN PIER.

REMARKS:

1. NONE.



A S0.3 **COLUMN ISOLATION JOINT**
1/2" = 1'-0"



B S0.3 **TYP. BASE PLATE DETAIL**
1" = 1'-0"

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PLAN NOTES AND SCHEDULES

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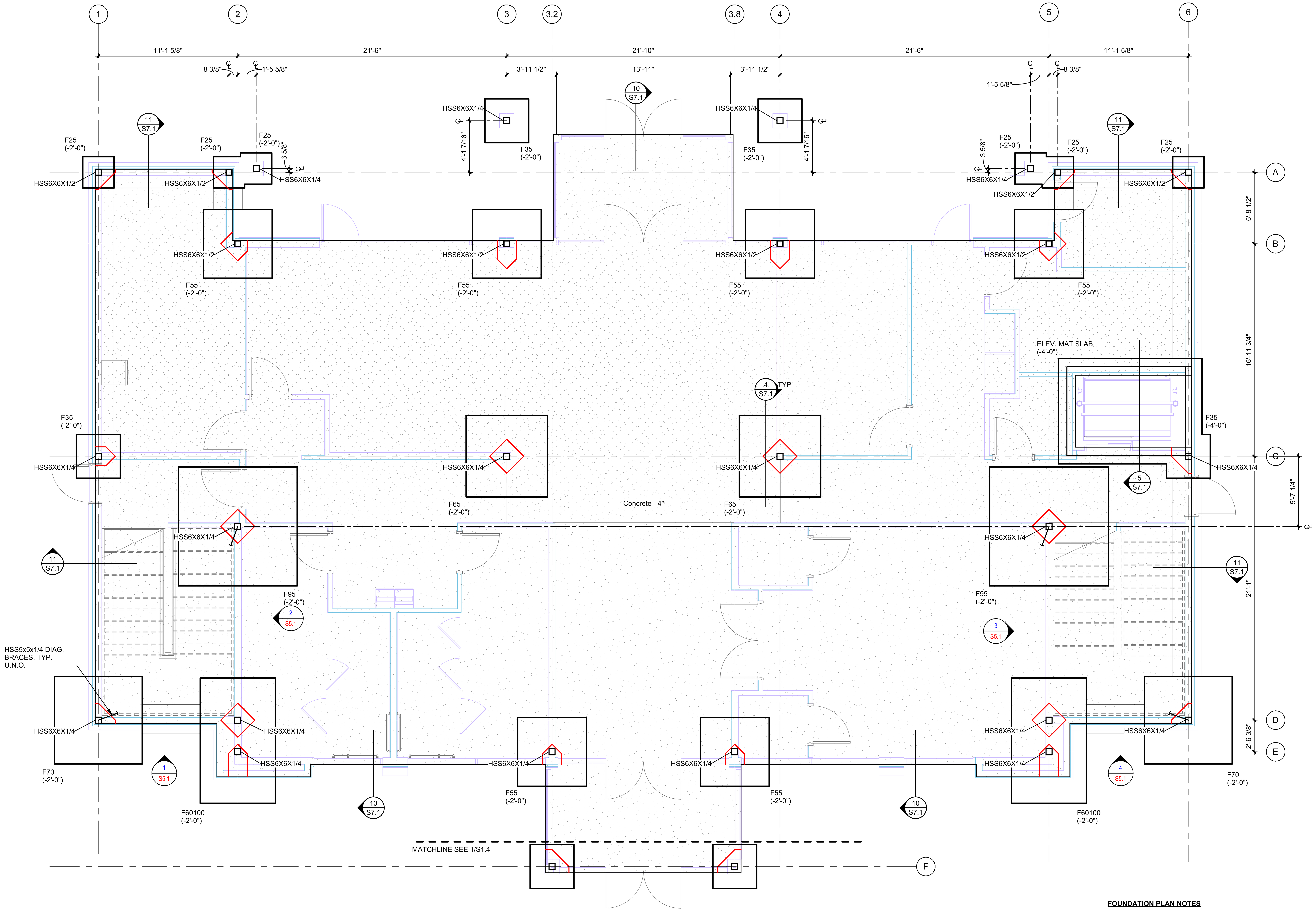
S0.3



1 S1.1 **FOUNDATION PLAN**

1/4" = 1'-0"

FOUNDATION PLAN NOTES

1. ELEVATIONS: THE REFERENCE ELEVATION (0'-0") FOR ALL ELEVATIONS SHOWN ON THE FOUNDATION PLANS SHALL BE AT THE TOP OF THE FIRST FLOOR SLAB-ON-GRADE. SEE SITE PLAN FOR SPECIFIED ELEVATION OF FIRST FLOOR.
2. SEE CONCRETE FRAMING PLAN SYMBOLS LEGEND, JOISTS FRAMING SYMBOLS LEGEND AND STEEL FRAMING CONNECTIONS SYMBOLS LEGEND ON SHEET **S0.1** FOR SYMBOLS USED ON THIS PLAN:
3. SEE MATERIALS AND SYMBOL LEGEND ON SHEET **S0.1** FOR SCHEDULE KEY FOR ALL SCHEDULED ITEMS USED ON THIS PLAN:
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE PADS, DRIVEWAYS, AND SIDEWALKS NOT SHOWN ON THIS DRAWING.
5. WALL PROJECTIONS, CHASES, PIERS, AND SIMILAR DETAIL ITEMS MAY NOT BE SHOWN; SEE ARCHITECTURAL DRAWINGS FOR THESE ITEMS.

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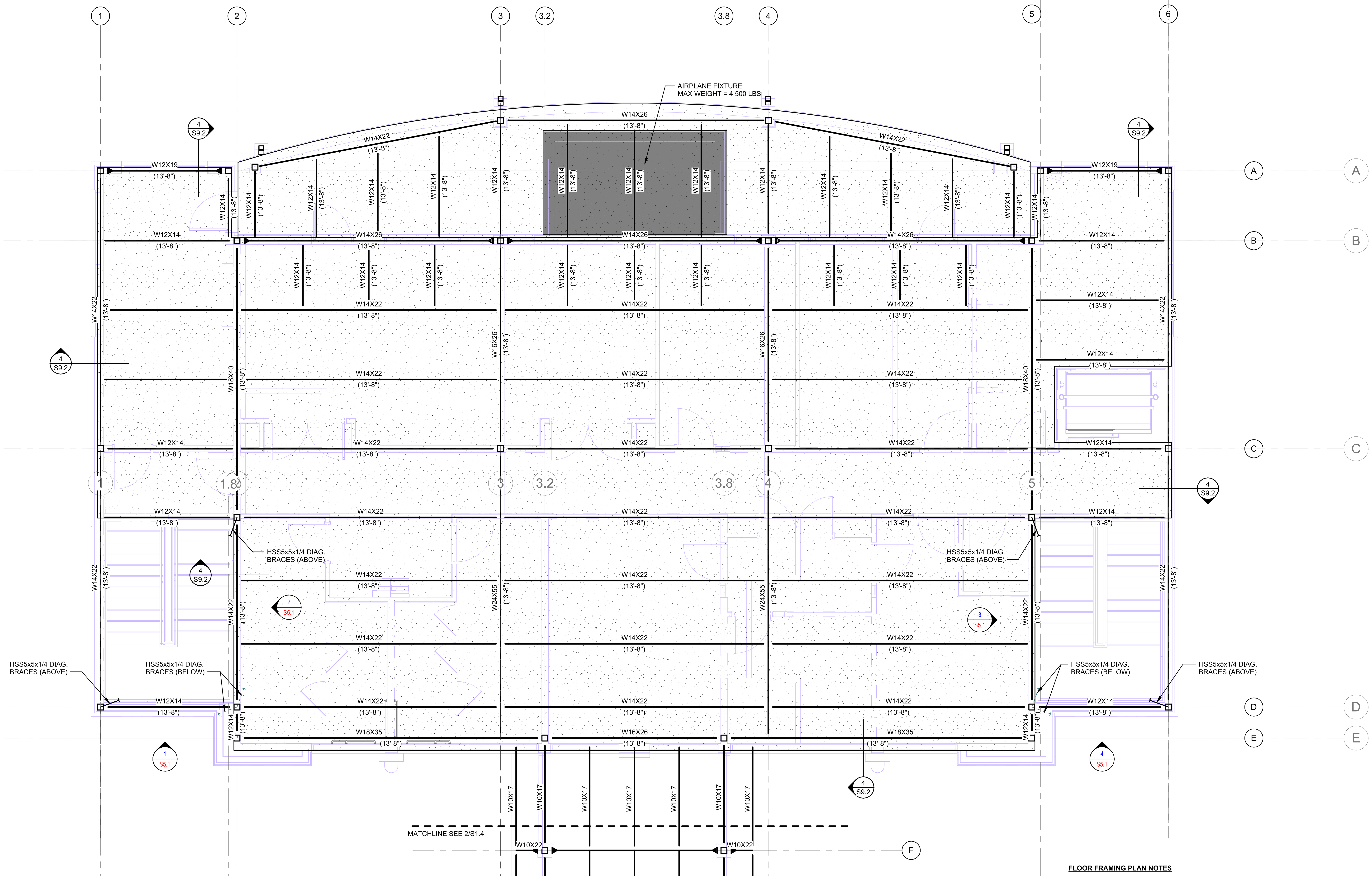
S1.1



1 S1.2 **LEVEL 2 FLOOR FRAMING PLAN**

1/4" = 1'-0"

FLOOR FRAMING PLAN NOTES

1. ELEVATIONS:
   - A. THE REFERENCE ELEVATION (0'-0") FOR ALL ELEVATIONS SHOWN ON THE FLOOR PLANS SHALL BE THE TOP OF THE FIRST FLOOR SLAB-ON-GRADE. SEE SITE PLAN FOR SPECIFIED ELEVATION OF FIRST FLOOR.
   - B. THE TOP OF STEEL FOR BEAMS WHICH SUPPORT THE CONCRETE FLOOR SLAB SHALL BE AT THE BOTTOM OF THE CONCRETE SLAB, UNLESS NOTED OTHERWISE.
2. SEE CONCRETE FRAMING PLAN SYMBOLS LEGEND, JOISTS FRAMING SYMBOLS LEGEND AND STEEL FRAMING CONNECTIONS SYMBOLS LEGEND ON SHEET**S0.1** FOR SYMBOLS USED ON THIS PLAN:
3. SEE MATERIALS AND SYMBOL LEGEND ON SHEET**S0.1** FOR SCHEDULE KEY FOR ALL SCHEDULED ITEMS USED ON THIS PLAN:
4. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO STEEL BEAMS INCLUDING THOSE INDICATED BELOW:

   "FRAMED BEAM CONNECTION"
   "THROUGH PLATE CONNECTION DETAIL"
   "STEEL BEAM CONNECTION TO EMBEDDED PLATE"
   "MOMENT CONNECTION"

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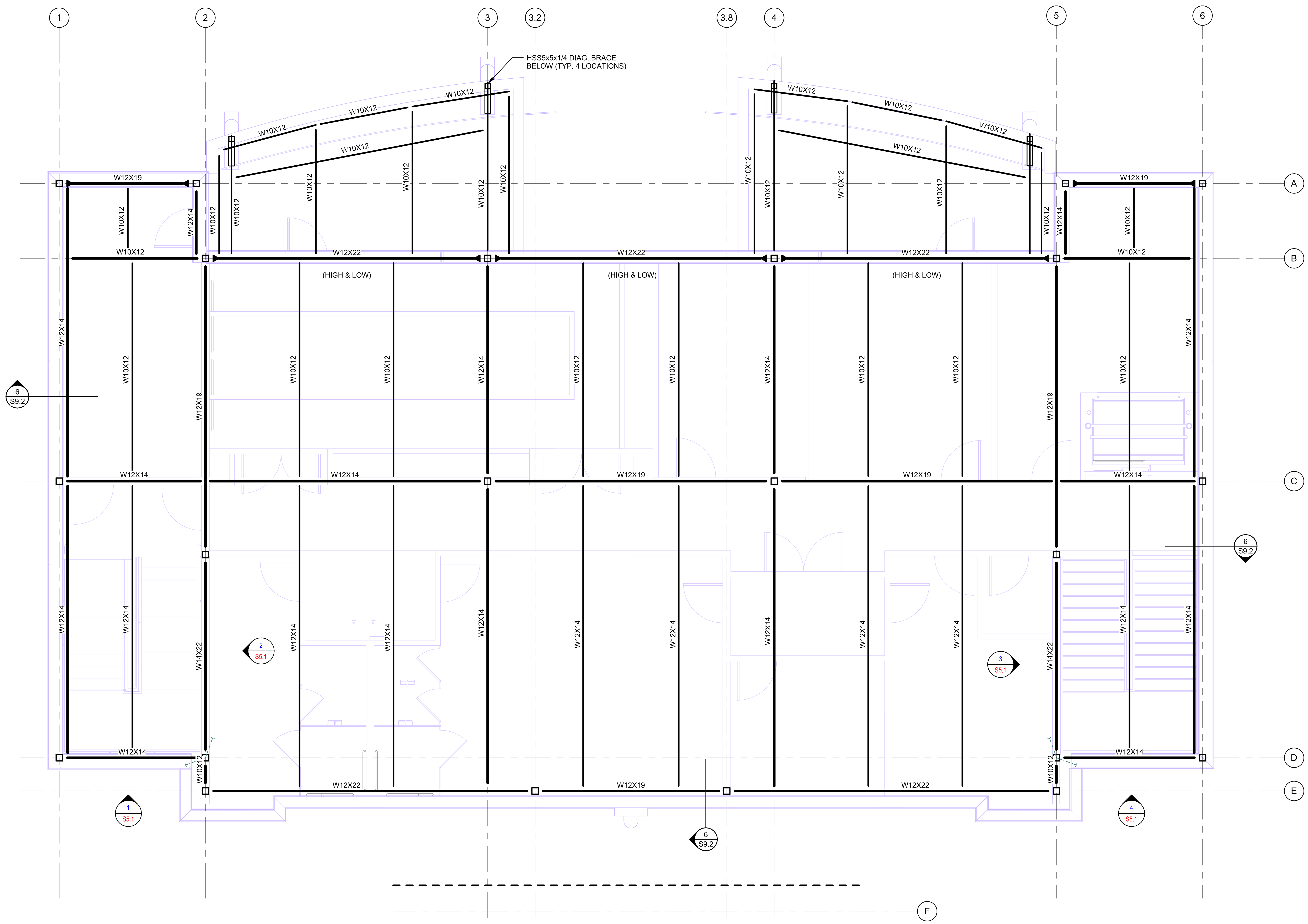
S1.2



1 S1.3 **ROOF FRAMING PLAN**
1/4" = 1'-0"

FOR ROOF FRAMING PLAN NOTES SEE SHEET **S0.3**

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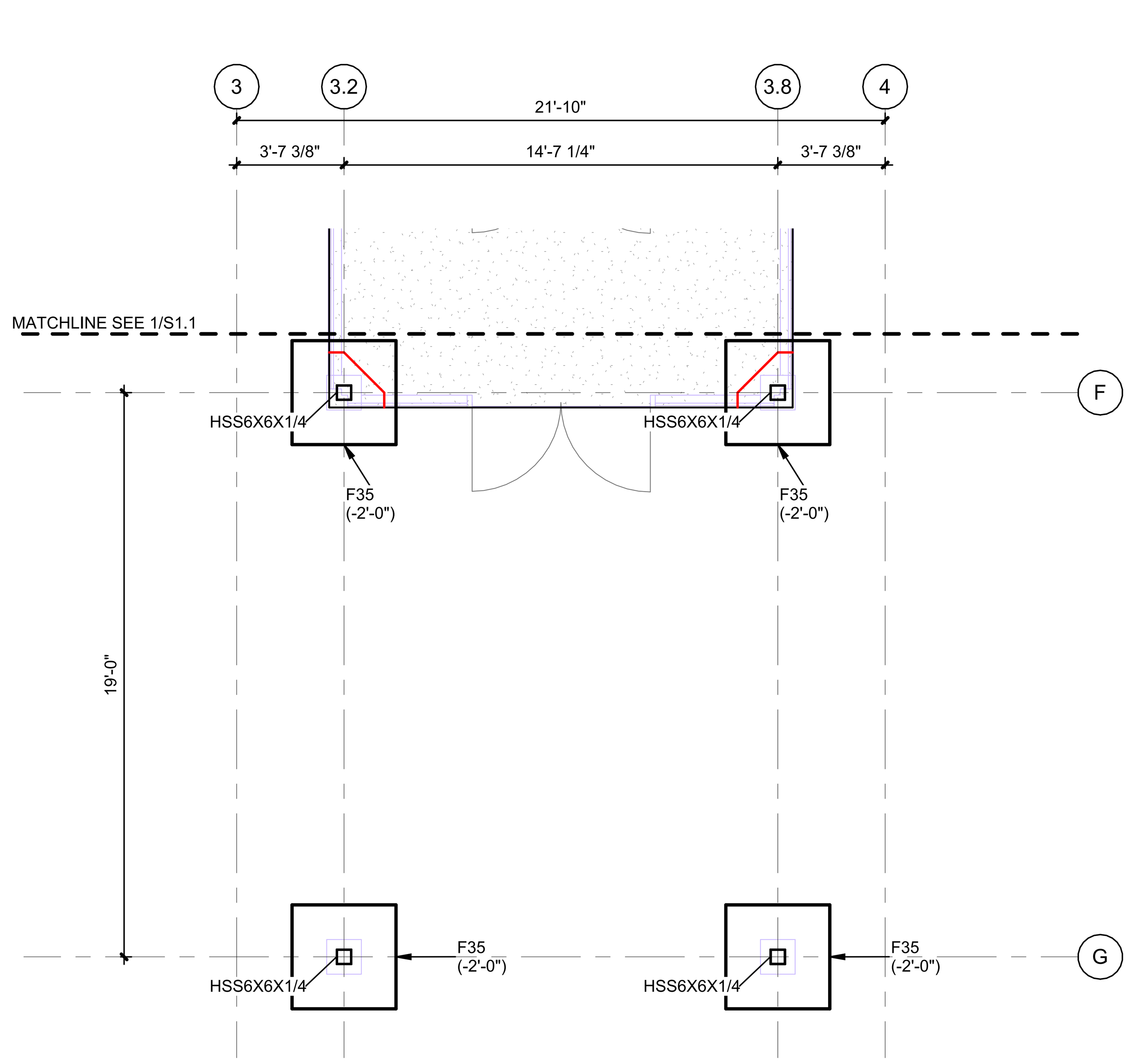
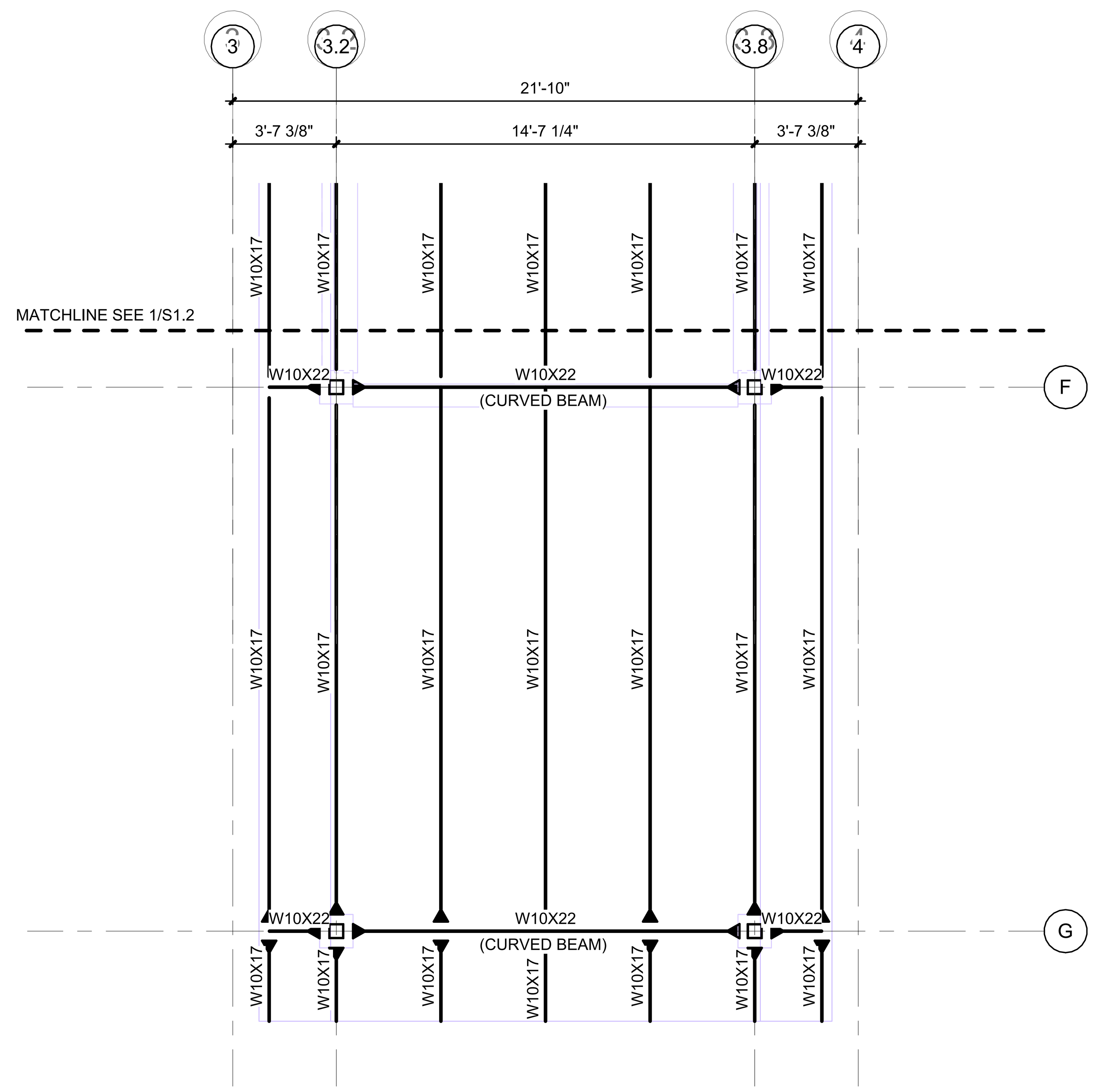
S1.3



1
S1.4
CANOPY FOUNDATION PLAN
1/4" = 1'-0"



2
S1.4
CANOPY ROOF FRAMING PLAN
1/4" = 1'-0"

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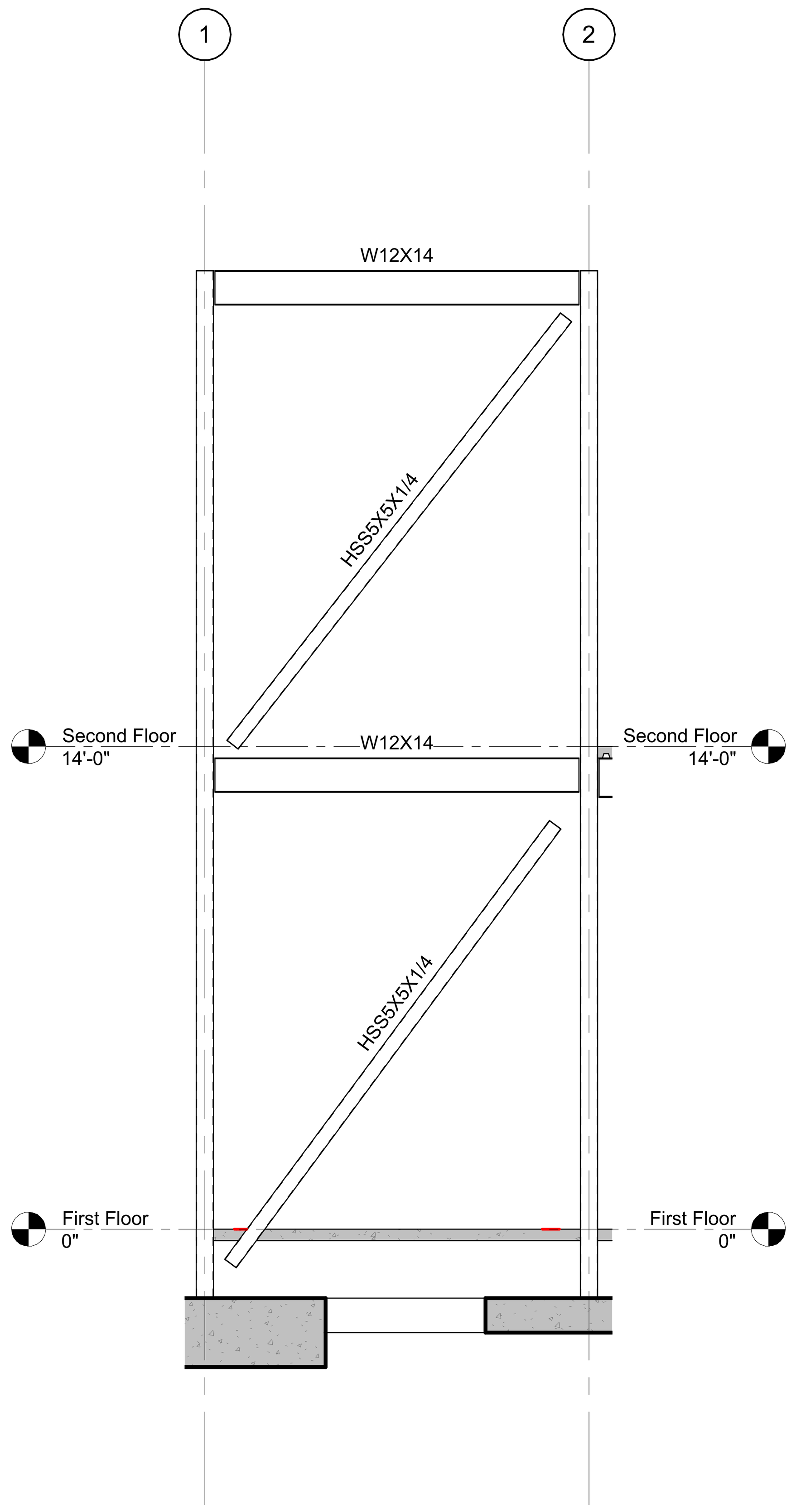
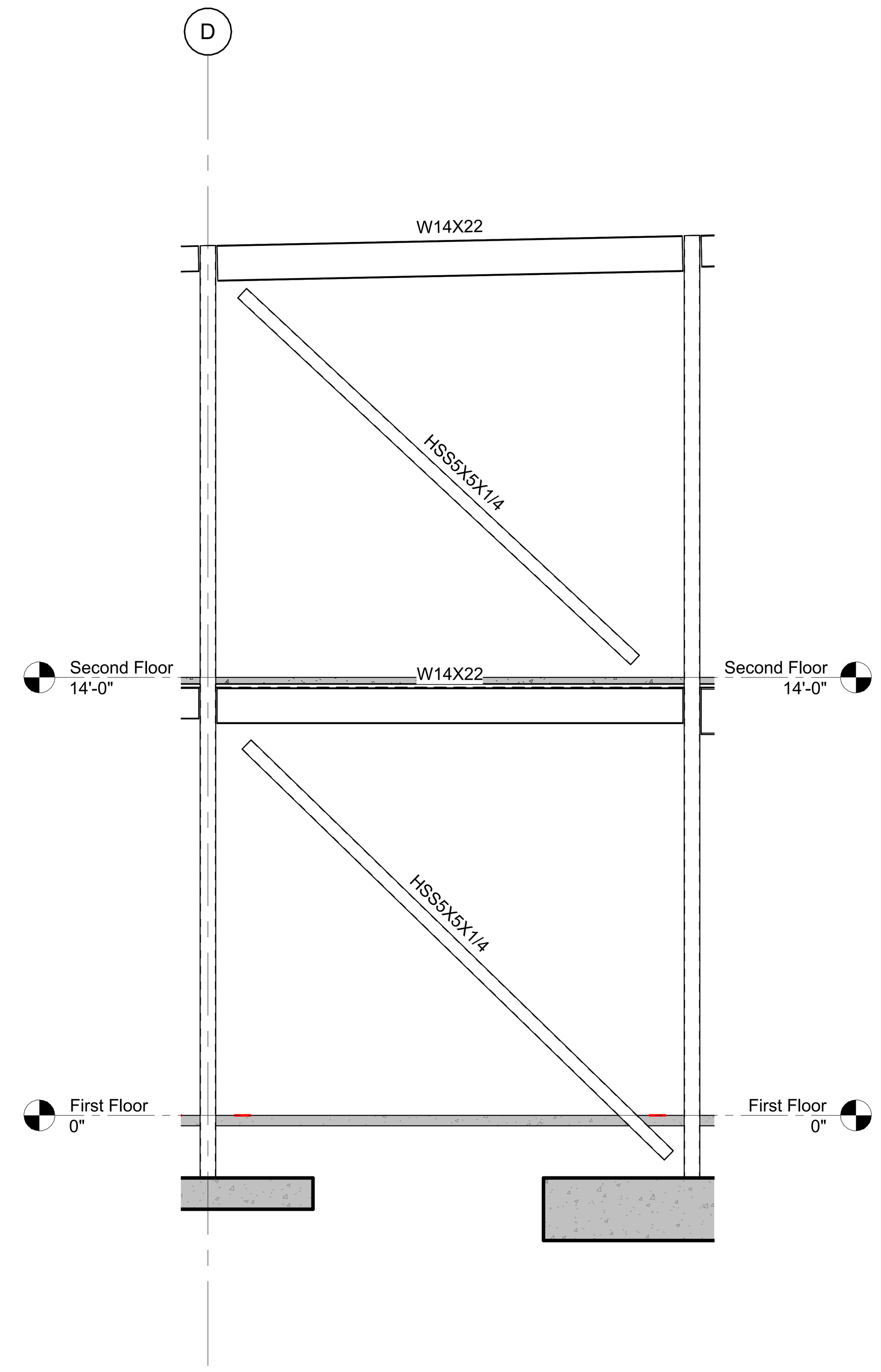
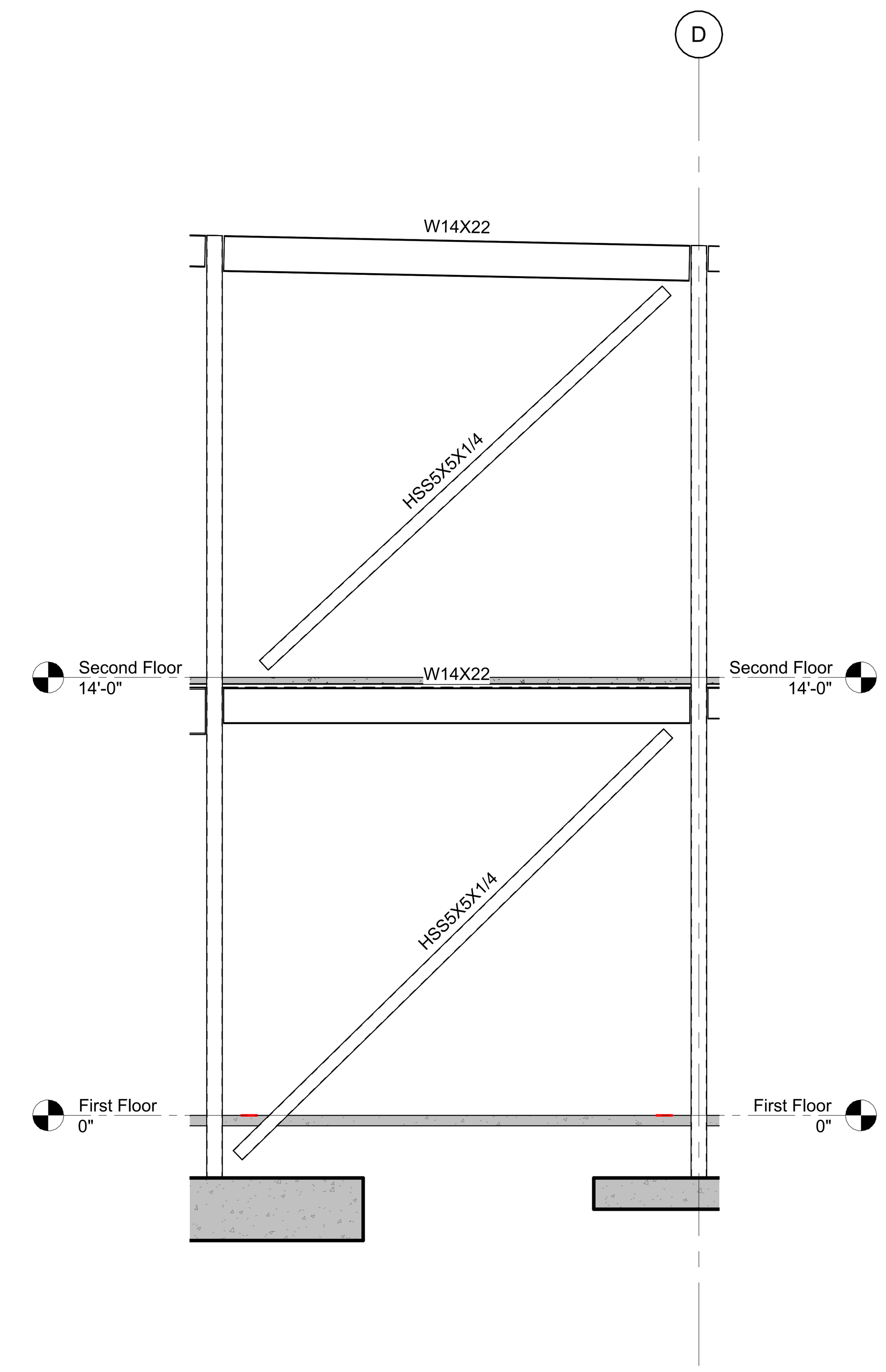
S1.4



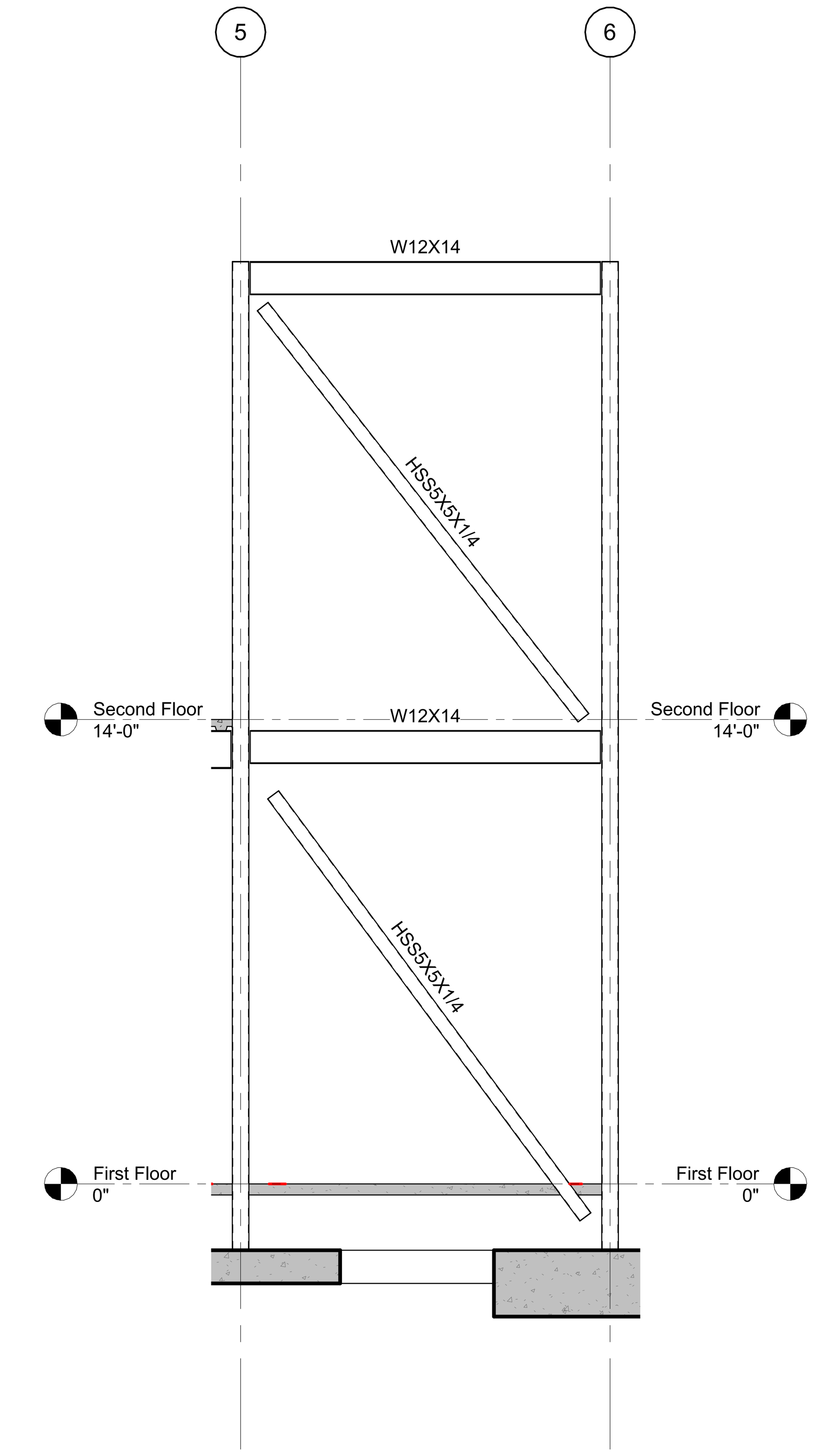
1 S5.1 **Elevation 1 - a**
1/4" = 1'-0"



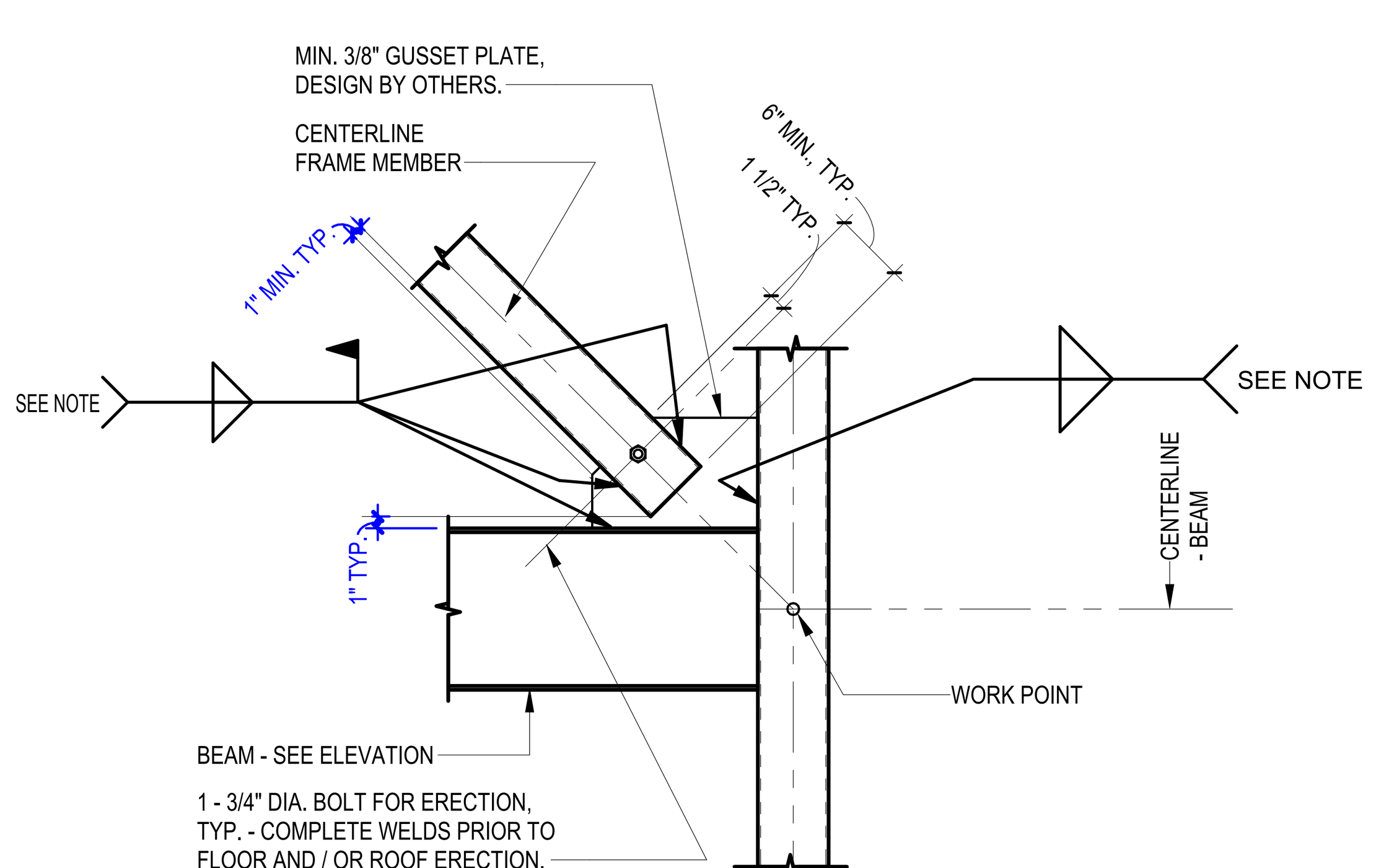
2 S5.1 **Elevation 2 - a**
1/4" = 1'-0"



3 S5.1 **Elevation 3 - a**
1/4" = 1'-0"

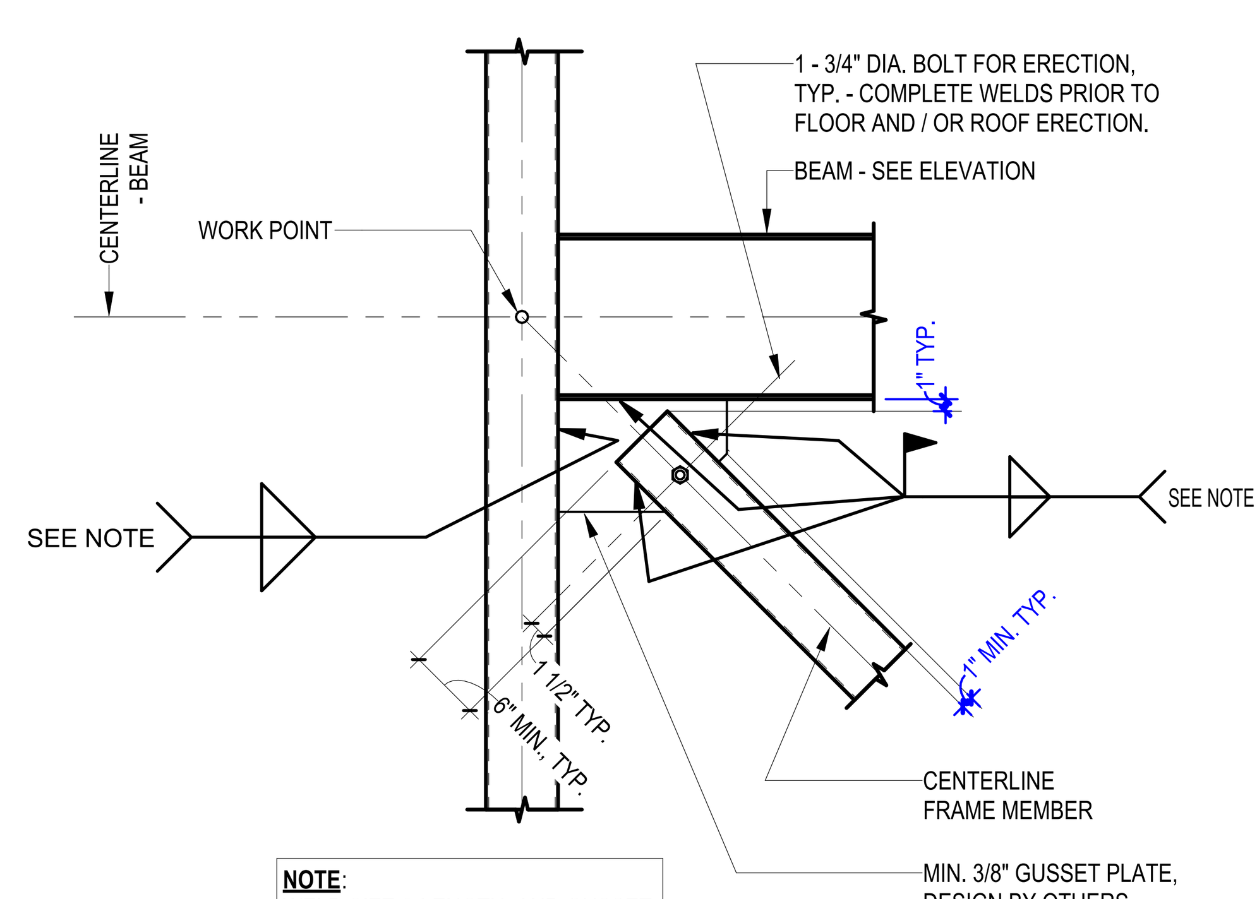


4 S5.1 **Elevation 4 - a**
1/4" = 1'-0"



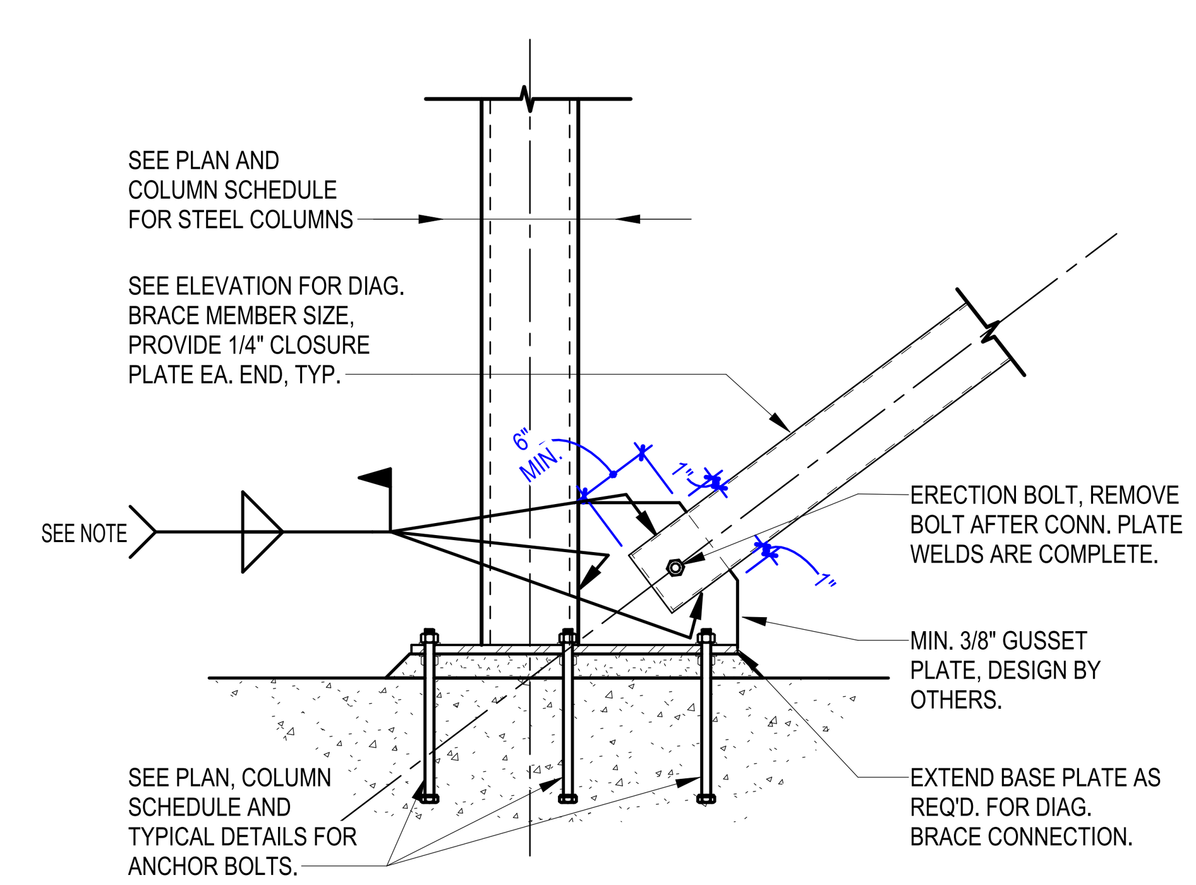
NOTE:
WELD SIZE & LENGTH, AND GUSSET PLATE & THICKNESS TO BE DETERMINED BY FABRICATOR BASED ON LOADS PROVIDED.

5 S5.1 **BRACE CONNECTION DETAIL**
3/4" = 1'-0"



NOTE:
WELD SIZE & LENGTH, AND GUSSET PLATE & THICKNESS TO BE DETERMINED BY FABRICATOR BASED ON LOADS PROVIDED.

6 S5.1 **BRACE CONNECTION DETAIL**
3/4" = 1'-0"



NOTE:
WELD SIZE & LENGTH, AND GUSSET PLATE & THICKNESS TO BE DETERMINED BY FABRICATOR BASED ON LOADS PROVIDED.

7 S5.1 **BRACED FRAME CONNECTION - WELDED**
3/4" = 1'-0"

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BRACED FRAME ELEVATIONS

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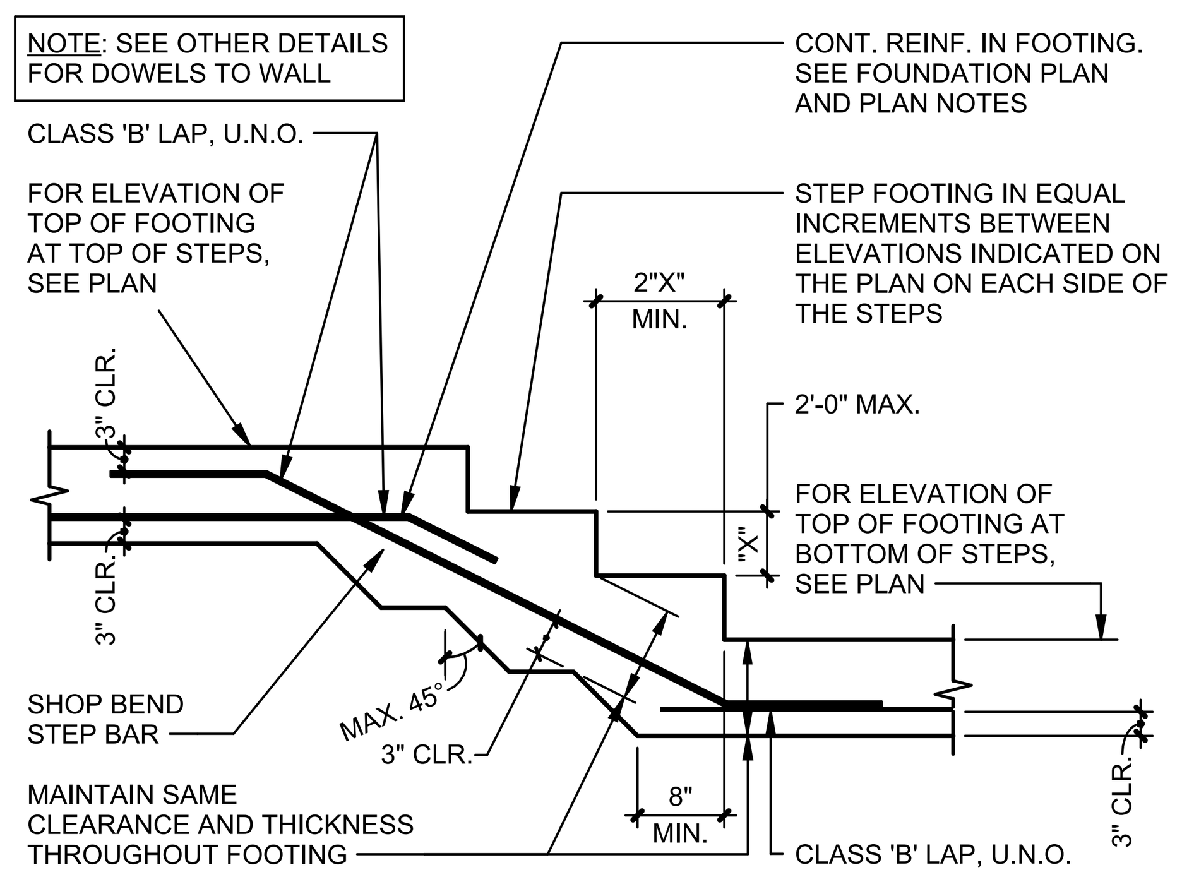
S5.1

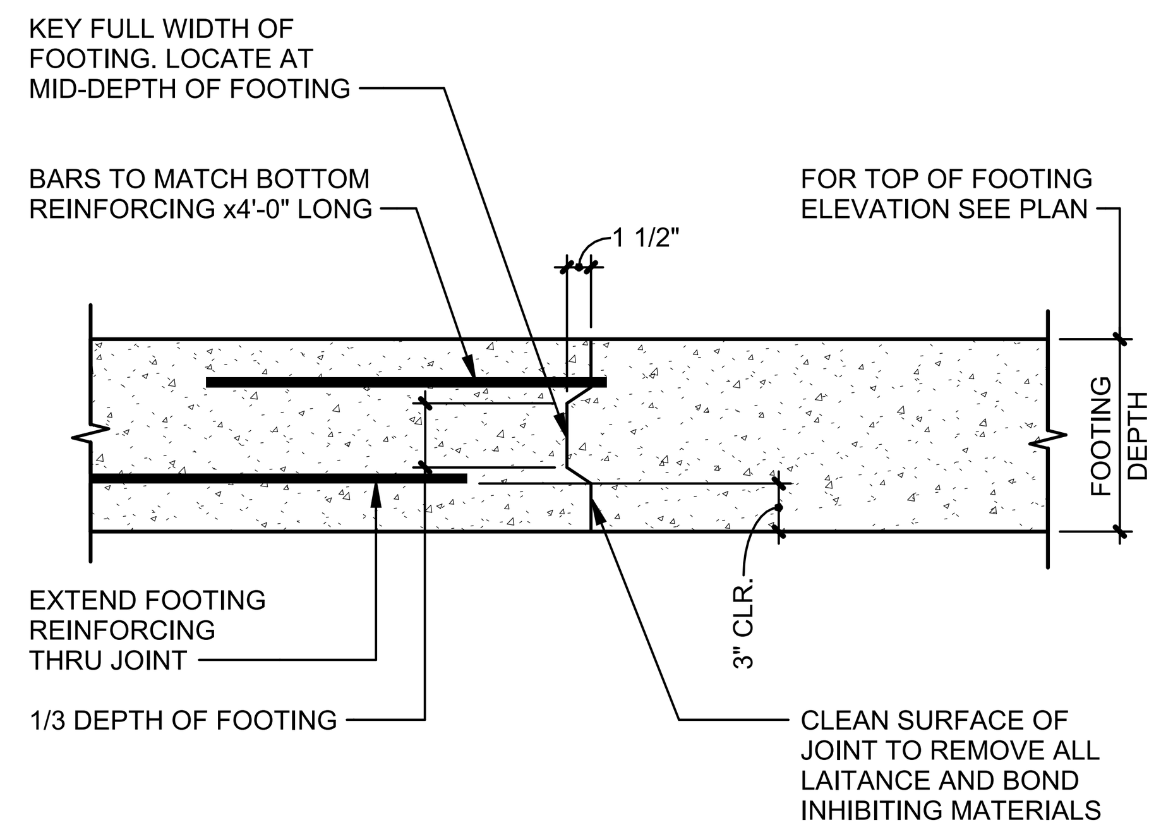


STD8003

1
S7.1

TYPICAL DETAIL
STEPPED WALL FOOTING

1/2" = 1'-0"

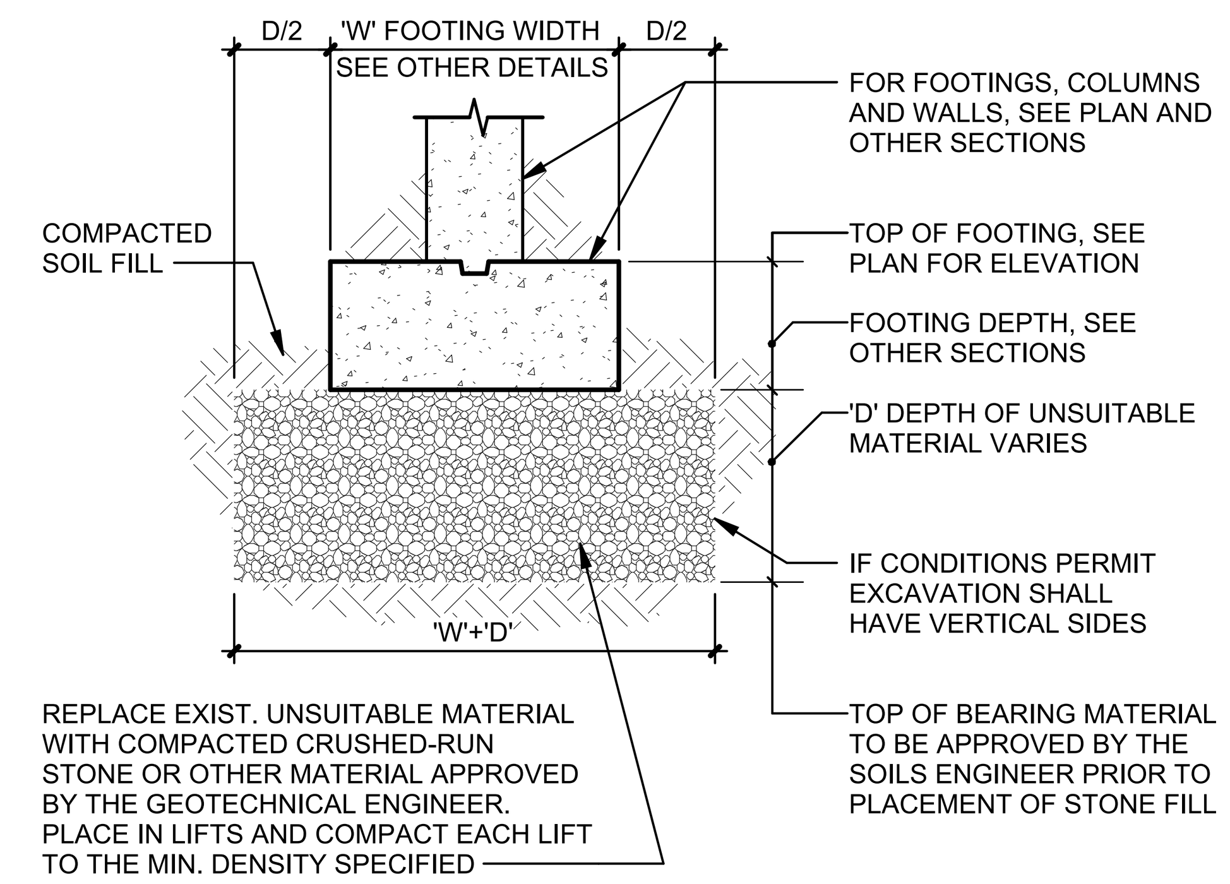


STD8005

2
S7.1

TYPICAL DETAIL
FOOTING CONSTRUCTION JOINT

1" = 1'-0"

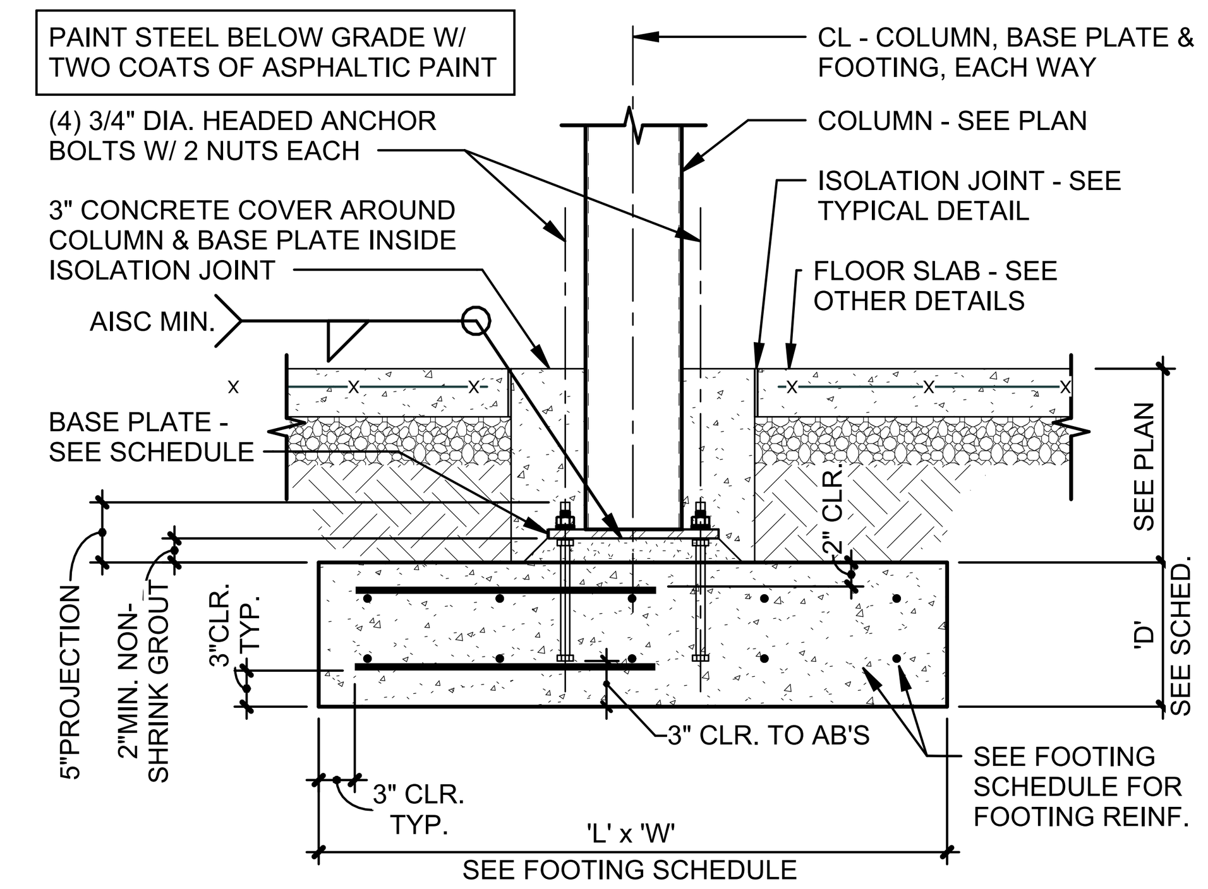


STD8021

3
S7.1

TYPICAL DETAIL
FOOTING AT UNSUITABLE BEARING MATERIAL

1/2" = 1'-0"

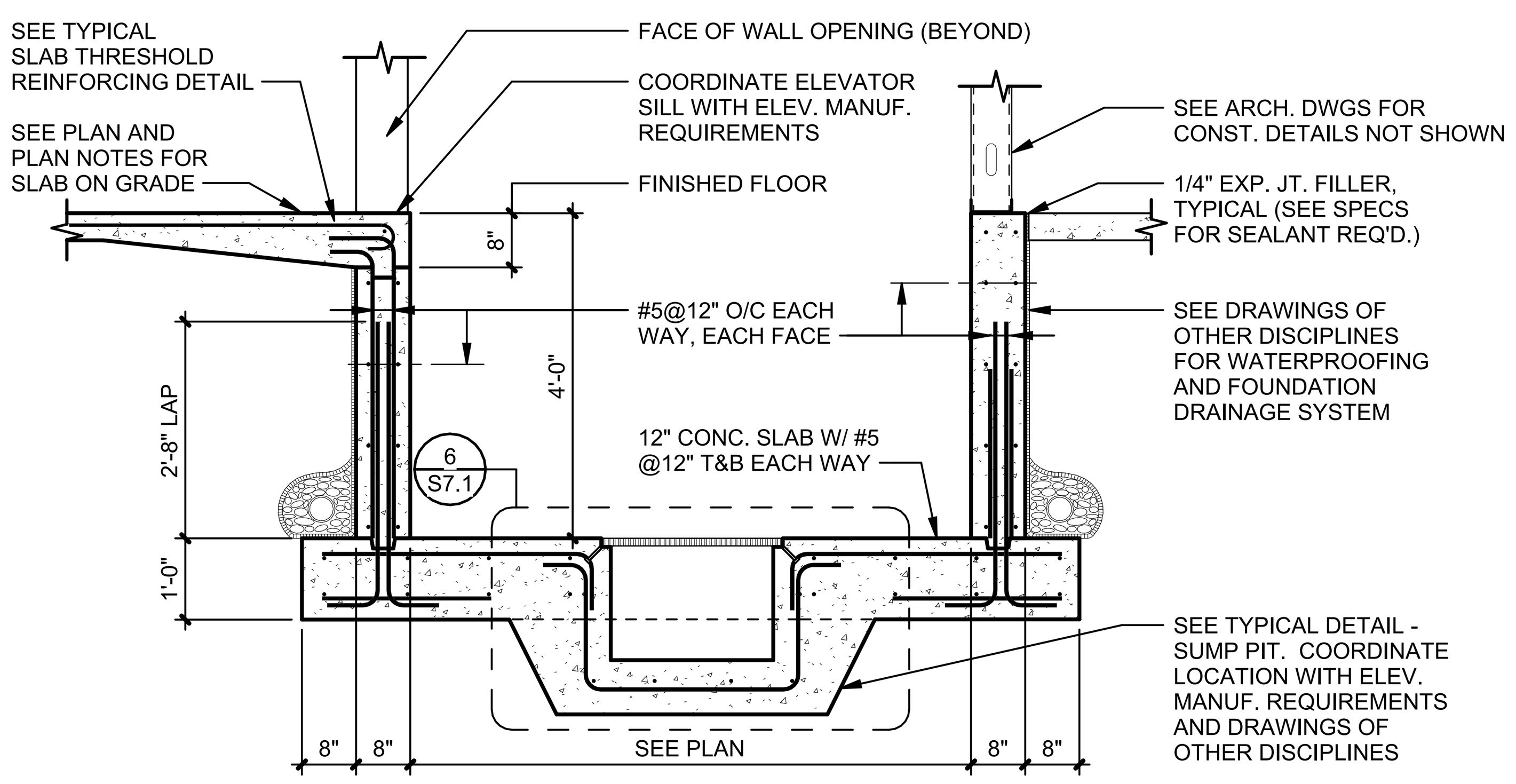


STD8022

4
S7.1

TYPICAL DETAIL
STEEL COLUMN BASE

3/4" = 1'-0"

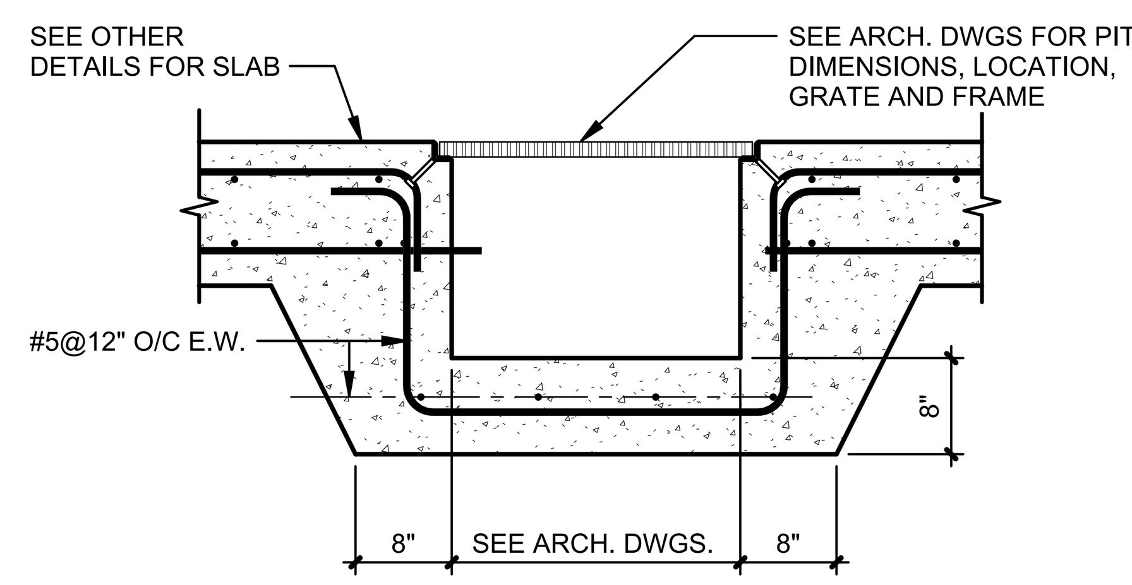


STD8124

5
S7.1

TYPICAL DETAIL
SECTION THROUGH ELEVATOR PIT

1/2" = 1'-0"

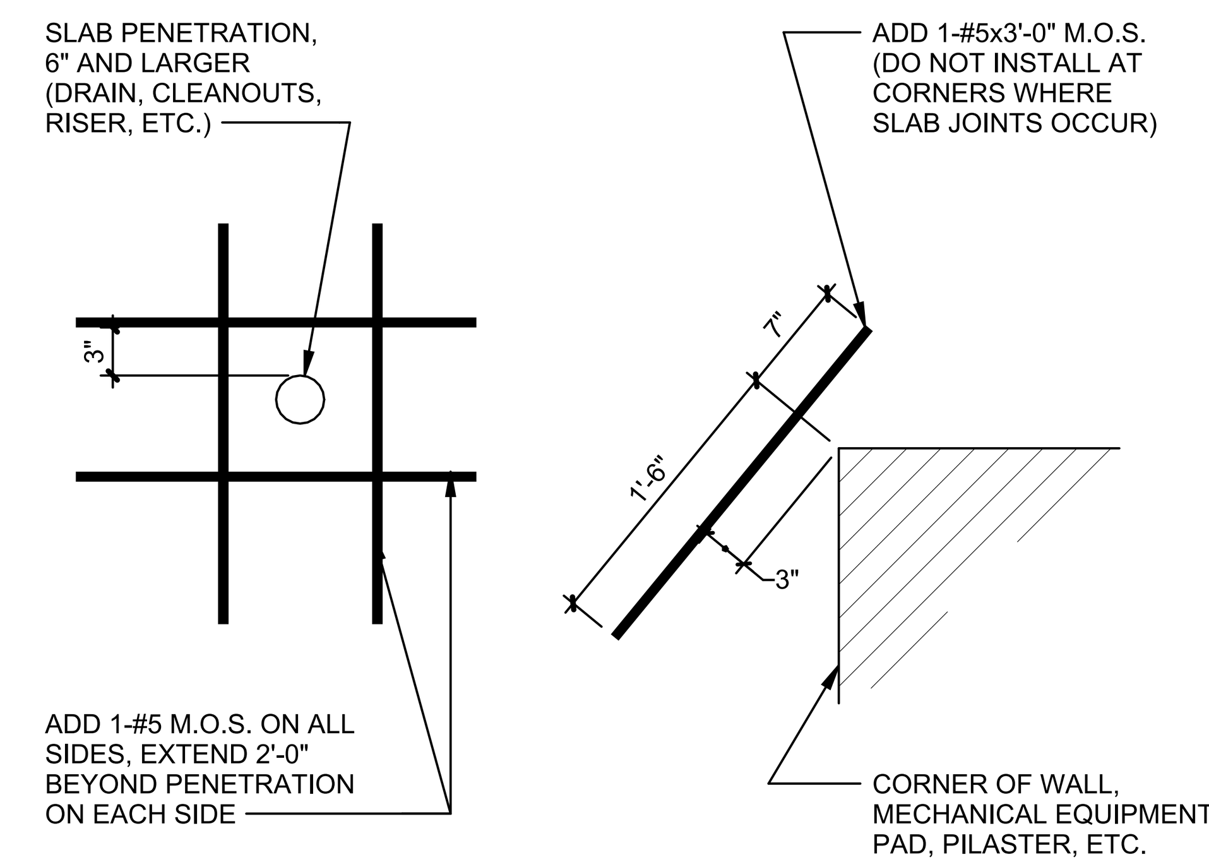


STD8125

6
S7.1

TYPICAL DETAIL
ELEVATOR SUMP PIT

3/4" = 1'-0"

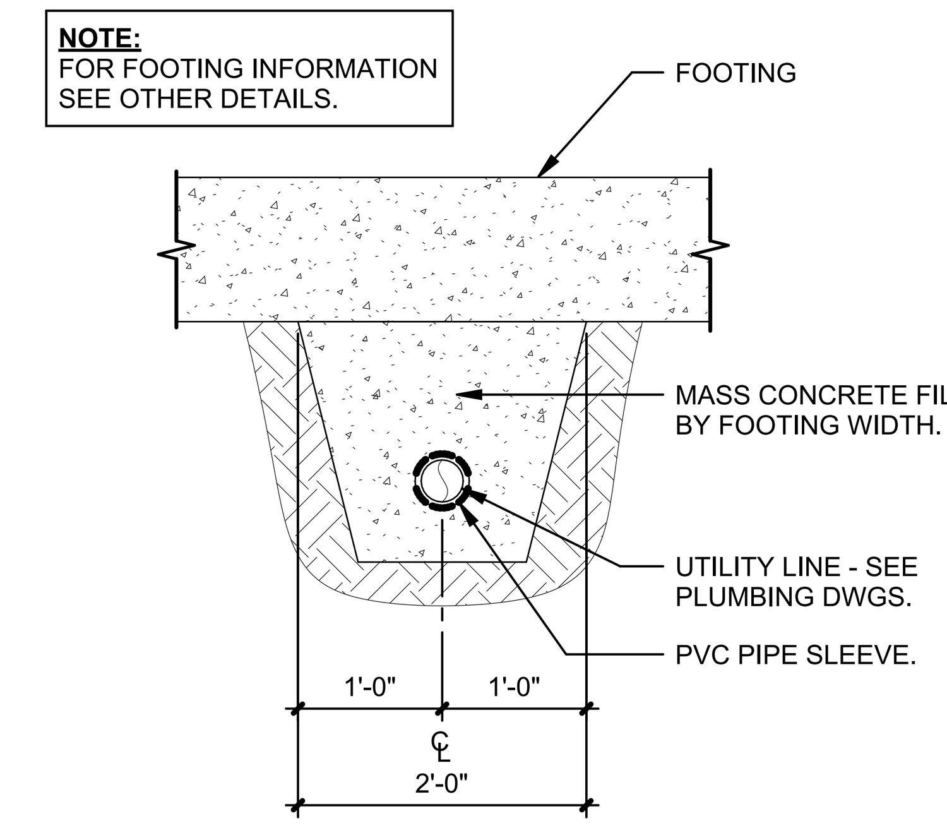


STD8207

7
S7.1

TYPICAL DETAIL
SLAB-ON-GRADE REINFORCING

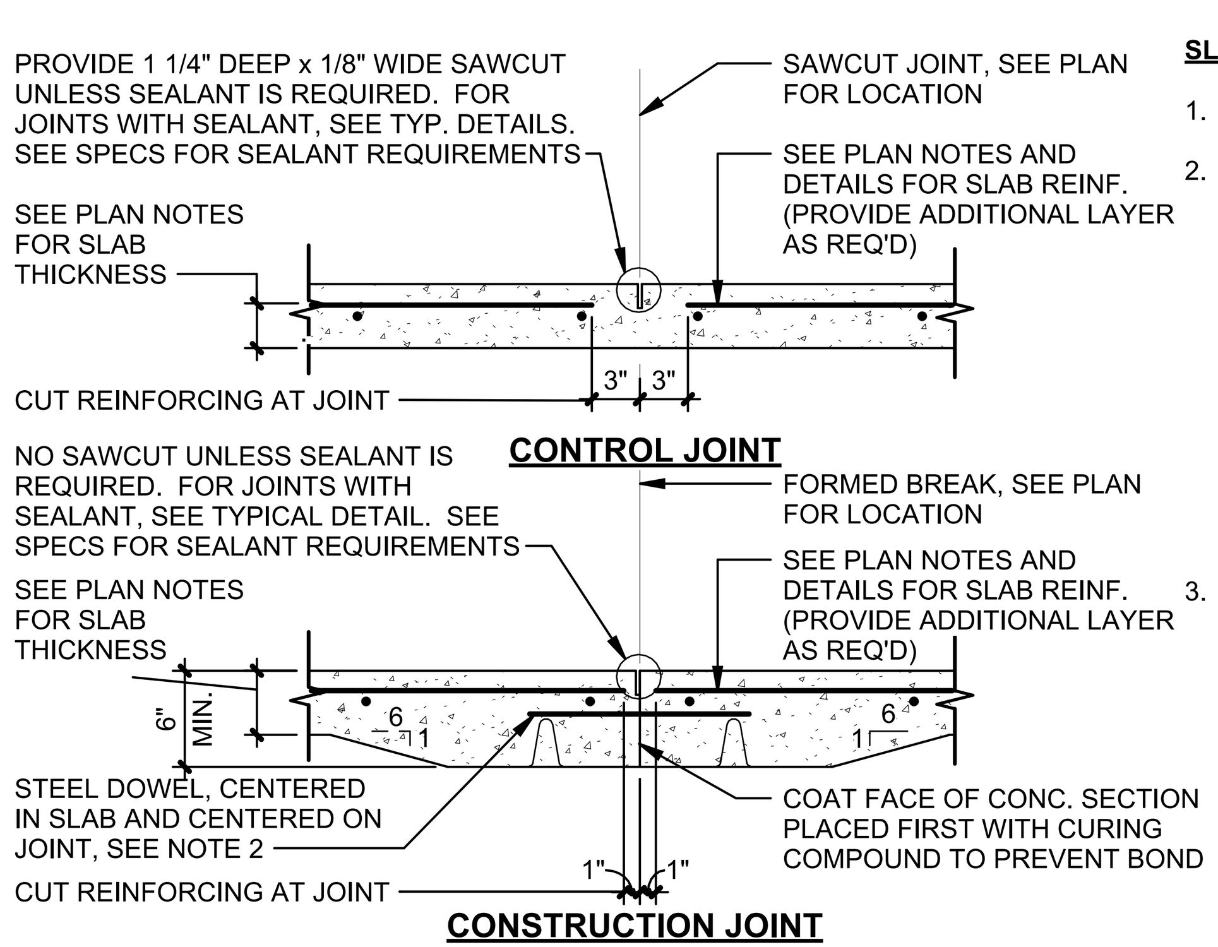
1" = 1'-0"



8
S7.1

TYPICAL DETAIL
SECTION AT PIPE UNDER FOOTING

3/4" = 1'-0"



SLAB-ON-GRADE JOINT NOTES

1. LOCATE JOINTS IN CONCRETE SLAB AS SHOWN ON FOUNDATION PLAN.
2. SLAB JOINT DOWELS:
   A. PROVIDE 3/4"x16" SMOOTH ROUND STEEL DOWELS IN SLAB JOINTS SPACED AT 12" O/C. DOWELS SHALL BE SAWCUT TO LENGTH.
   B. DOWELS SHALL BE SECURELY SUPPORTED DURING CONCRETE PLACEMENT ON CONTINUOUS SLAB BOLSTERS ON EACH SIDE OF THE JOINT. POSITION AND ALIGN DOWELS TO BE PERPENDICULAR TO THE JOINT AND PARALLEL TO THE TOP SLAB SURFACE.
   C. AT CONSTRUCTION JOINT, GREASE END OF DOWEL PLACED IN FIRST SECTION OF CONCRETE. AFTER CONCRETE IN FIRST SECTION HAS HARDENED, MOVE DOWEL BACK AND FORTH IN HOLE TO INSURE THAT BOND IS BROKEN. AT DOWELED CONTROL JOINT, GREASE ENTIRE LENGTH OF DOWEL.
   D. DIAMOND PLATE JOINT KEYS MAY BE USED AS AN ALTERNATIVE TO DOWELS. SUBMIT PRODUCT DATA FOR APPROVAL.
3. SAWCUTTING:
   A. SAWCUT CONTROL JOINTS IMMEDIATELY AFTER COMPLETING SLAB SURFACE FINISHING AT EACH JOINT LOCATION AND AFTER THE CONCRETE IS SUFFICIENTLY SET TO LEAVE NO TRACKS ON THE SURFACE. SAW SHALL BE CAPABLE OF CUTTING OF HARDENED, UNCURED CONCRETE WITHOUT DAMAGING THE CONCRETE.
   B. SAW CUTS AT CONSTRUCTION JOINTS MAY BE MADE WHEN CONTROL JOINTS ARE CUT OR AT ANY TIME PRIOR TO THE TIME THAT JOINT SEALANTS OR FILLERS ARE TO BE INSTALLED.
   C. IMMEDIATELY AFTER SAWCUTTING, CLEAN THE JOINTS AND SLAB SURFACE. CLEANING SHALL REMOVE ALL LAITANCE, SAW DUST, AND OTHER CONTAMINANTS FROM SLAB SURFACE.
4. AFTER SAWING JOINTS AND CLEANING, COMMENCE CURING OF THE SLAB AND JOINTS AS SPECIFIED.

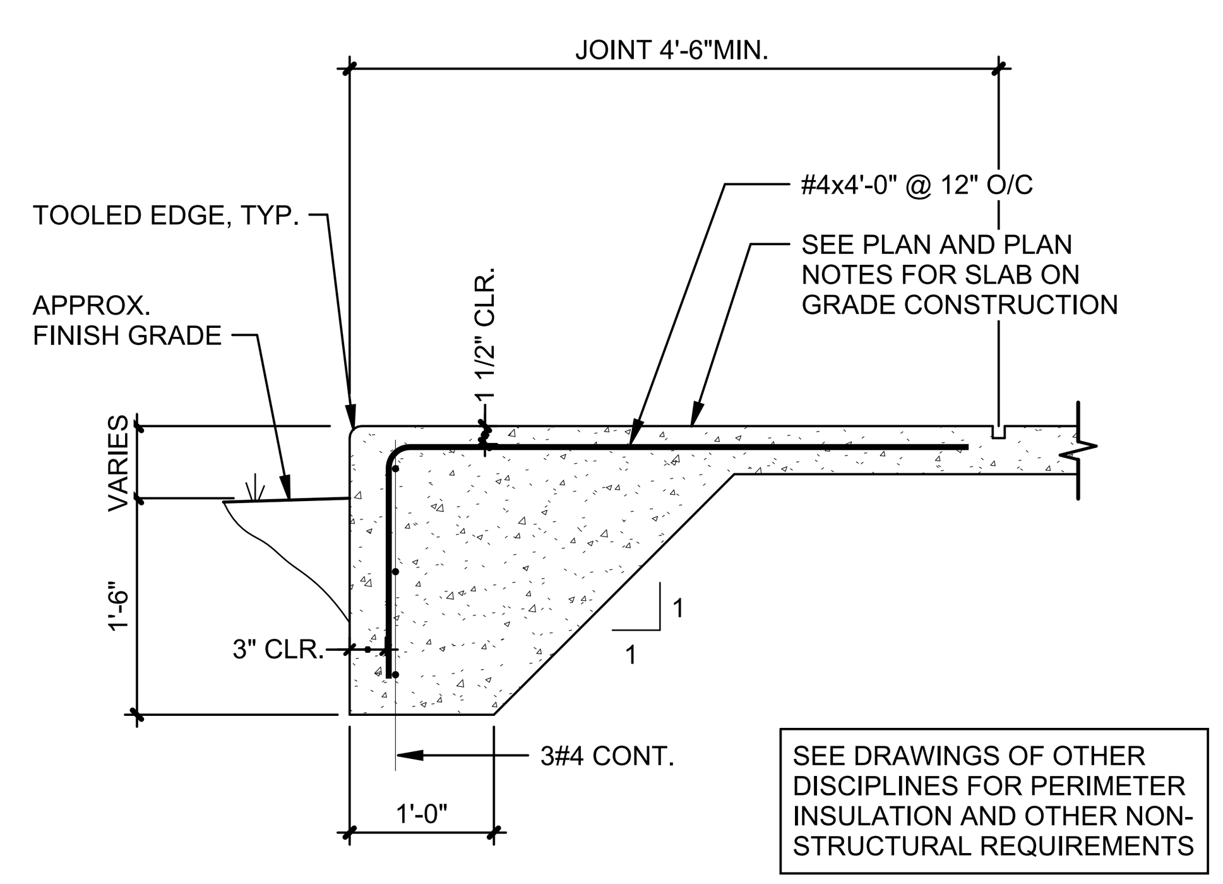
AT JOINTS NOTED ON PLANS AS DOWELED CONTROL JOINTS, THICKEN SLAB AND ADD DOWELS PER CONSTRUCTION JOINT DETAIL

STD8201

9
S7.1

TYPICAL DETAIL
SLAB-ON-GRADE JOINTS

1" = 1'-0"

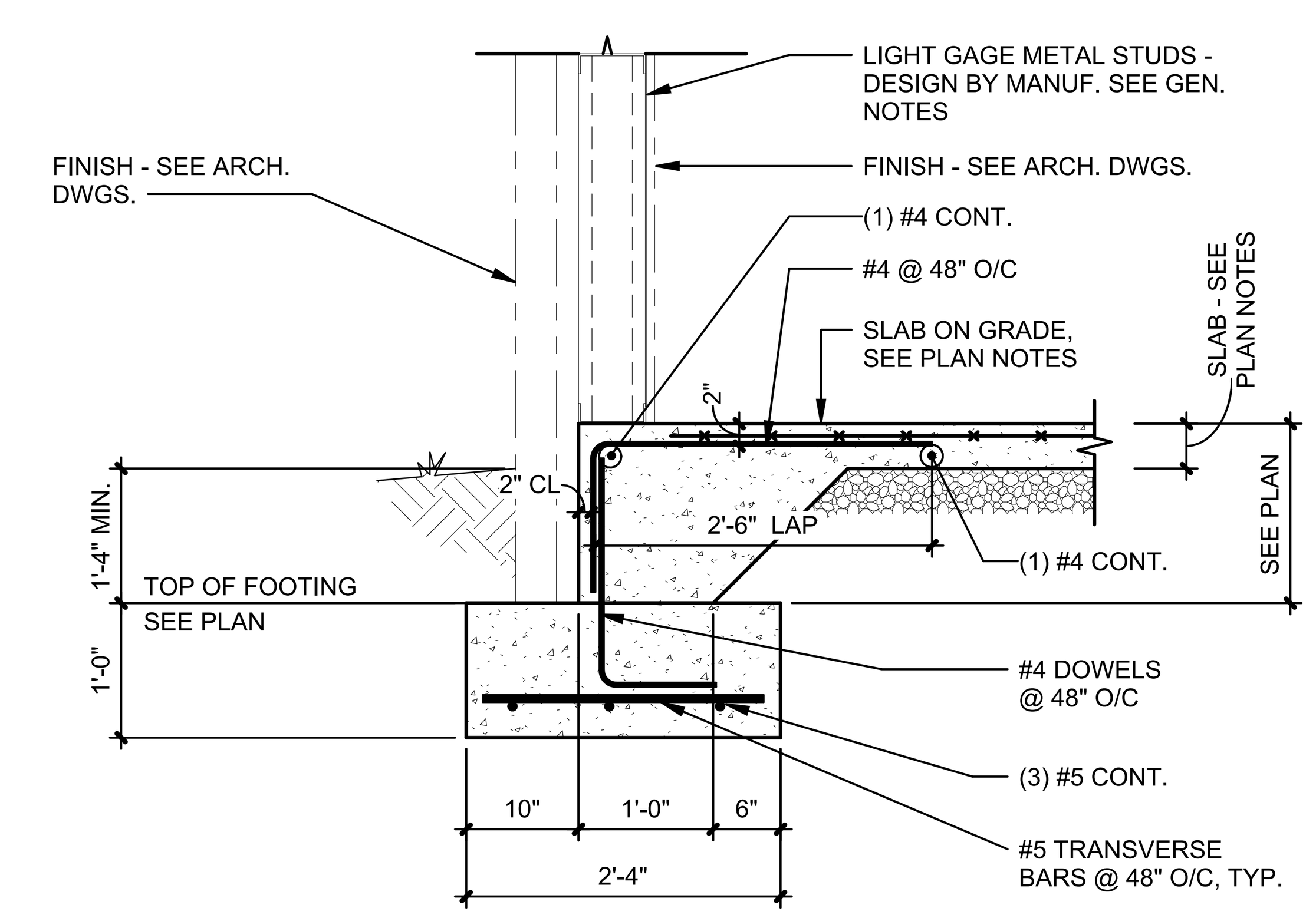


STD8203

10
S7.1

TYPICAL DETAIL
EDGE OF SLAB

3/4" = 1'-0"



11
S7.1

TYPICAL EXTERIOR WALL FOUNDATION DETAIL

3/4" = 1'-0"

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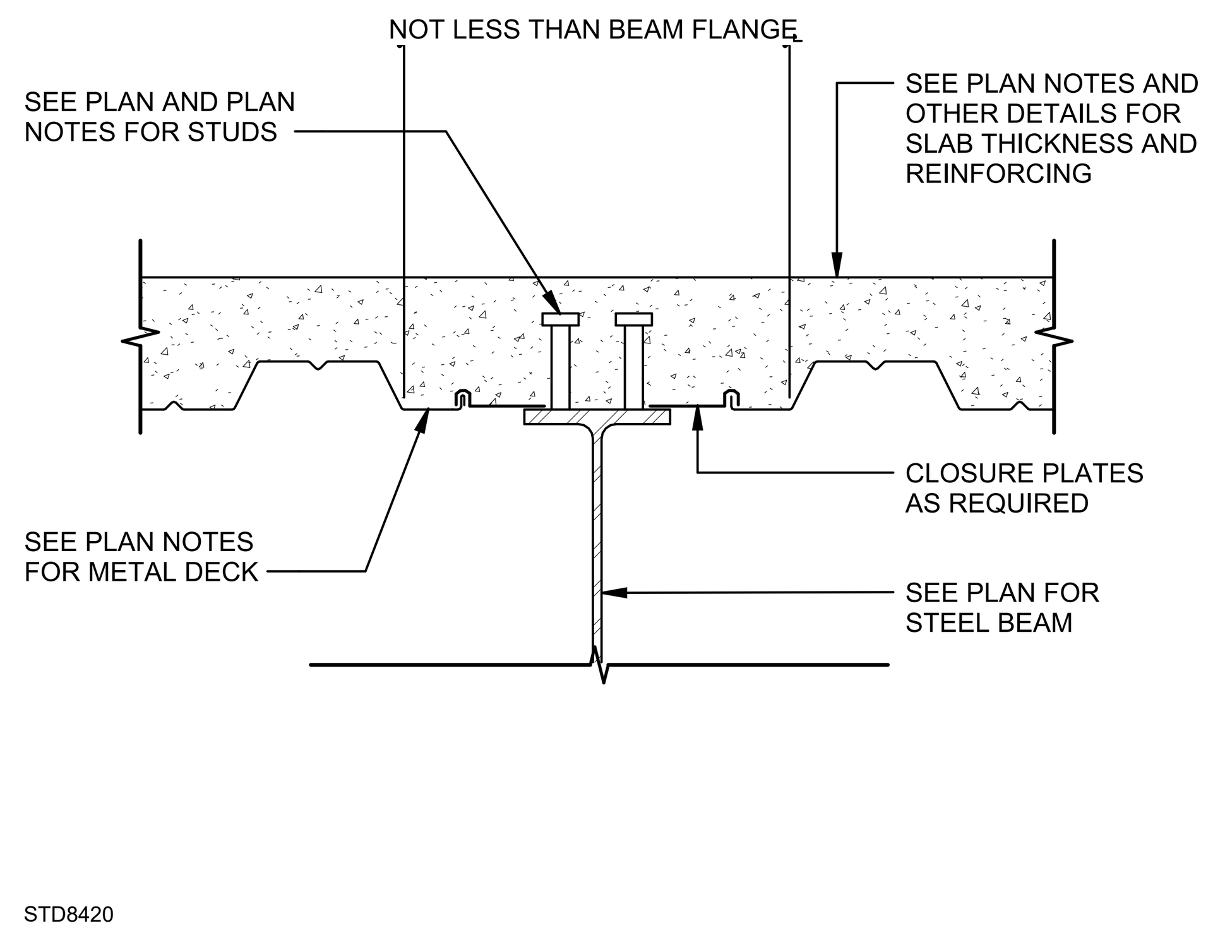
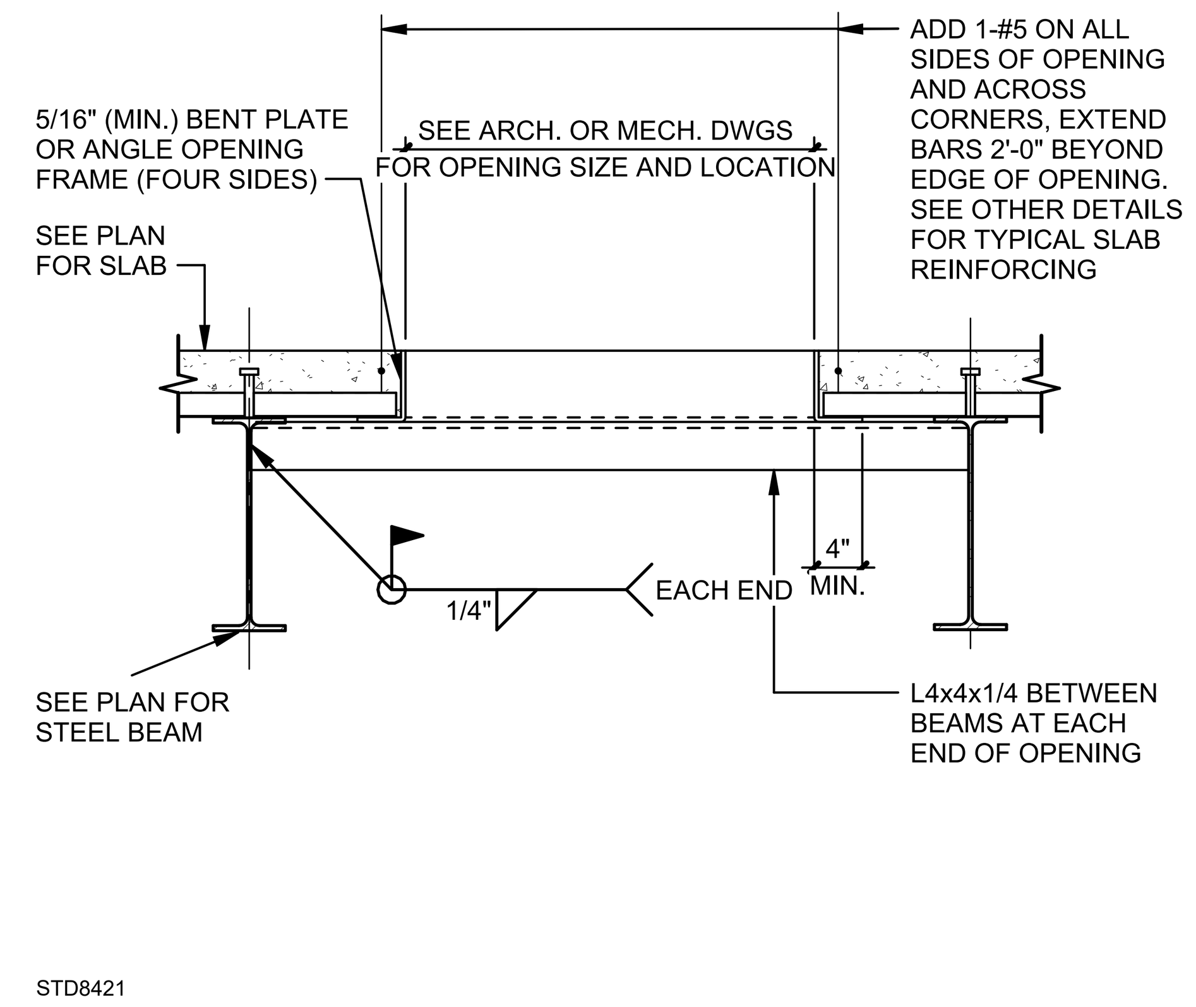
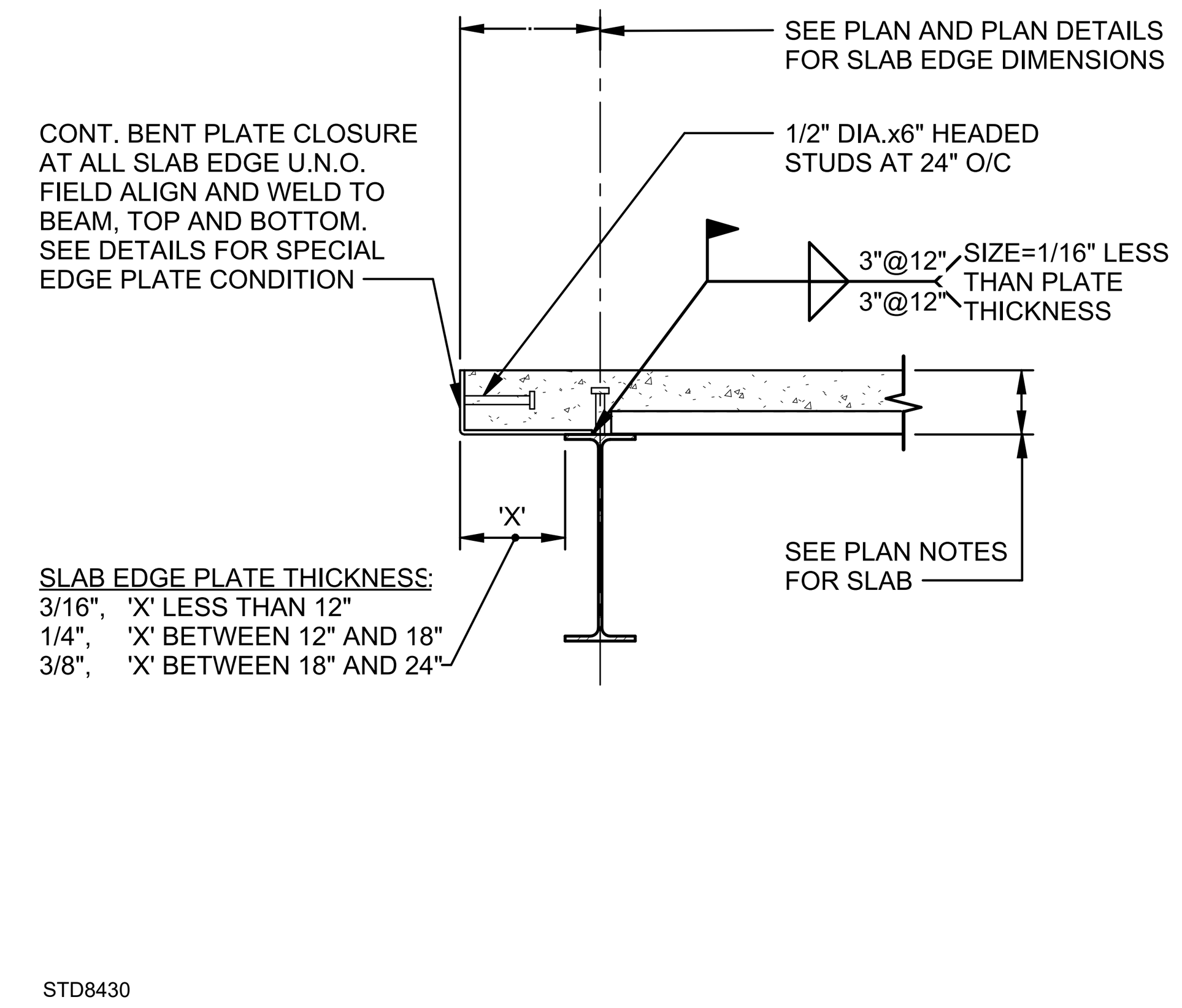


1 S9.1 **DECK AT COMPOSITE GIRDER**
1 1/2" = 1'-0"



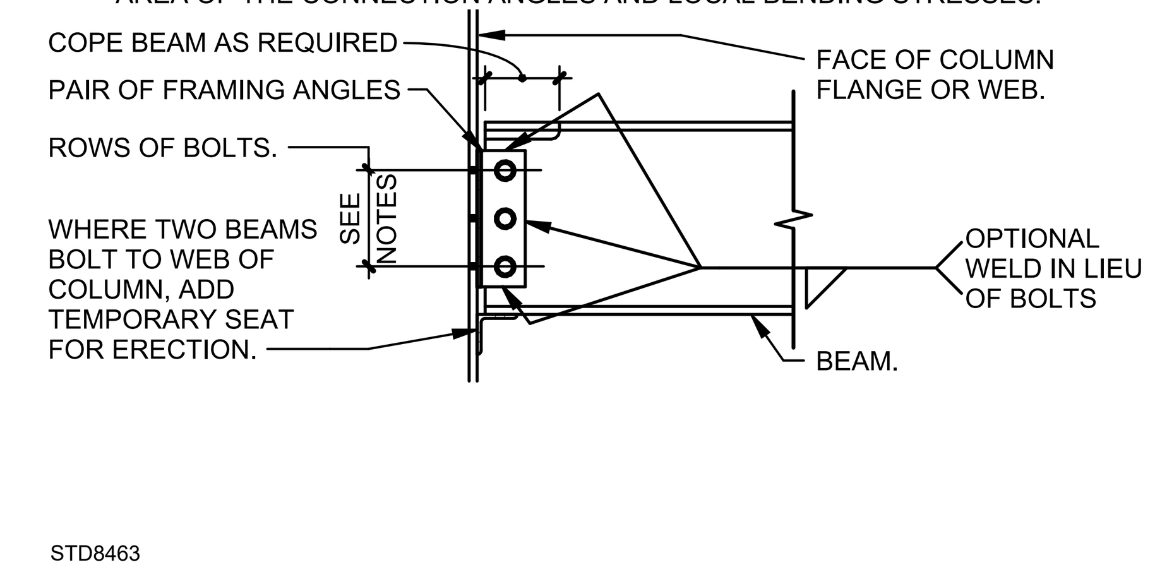
2 S9.1 **OPENING FRAMING IN FLOOR SLAB**
3/4" = 1'-0"



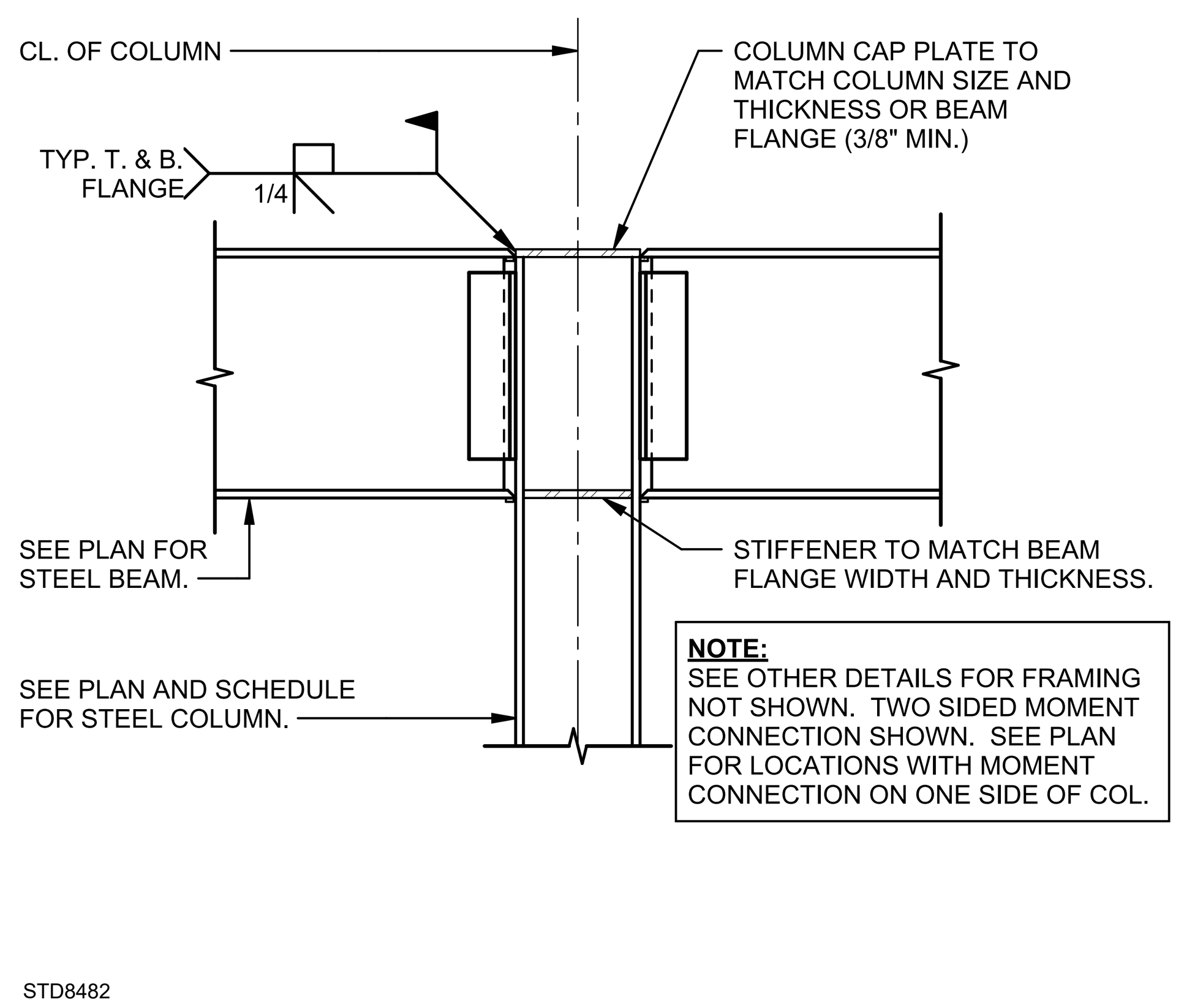
3 S9.1 **SLAB EDGE PLATE**
3/4" = 1'-0"

NOTES:

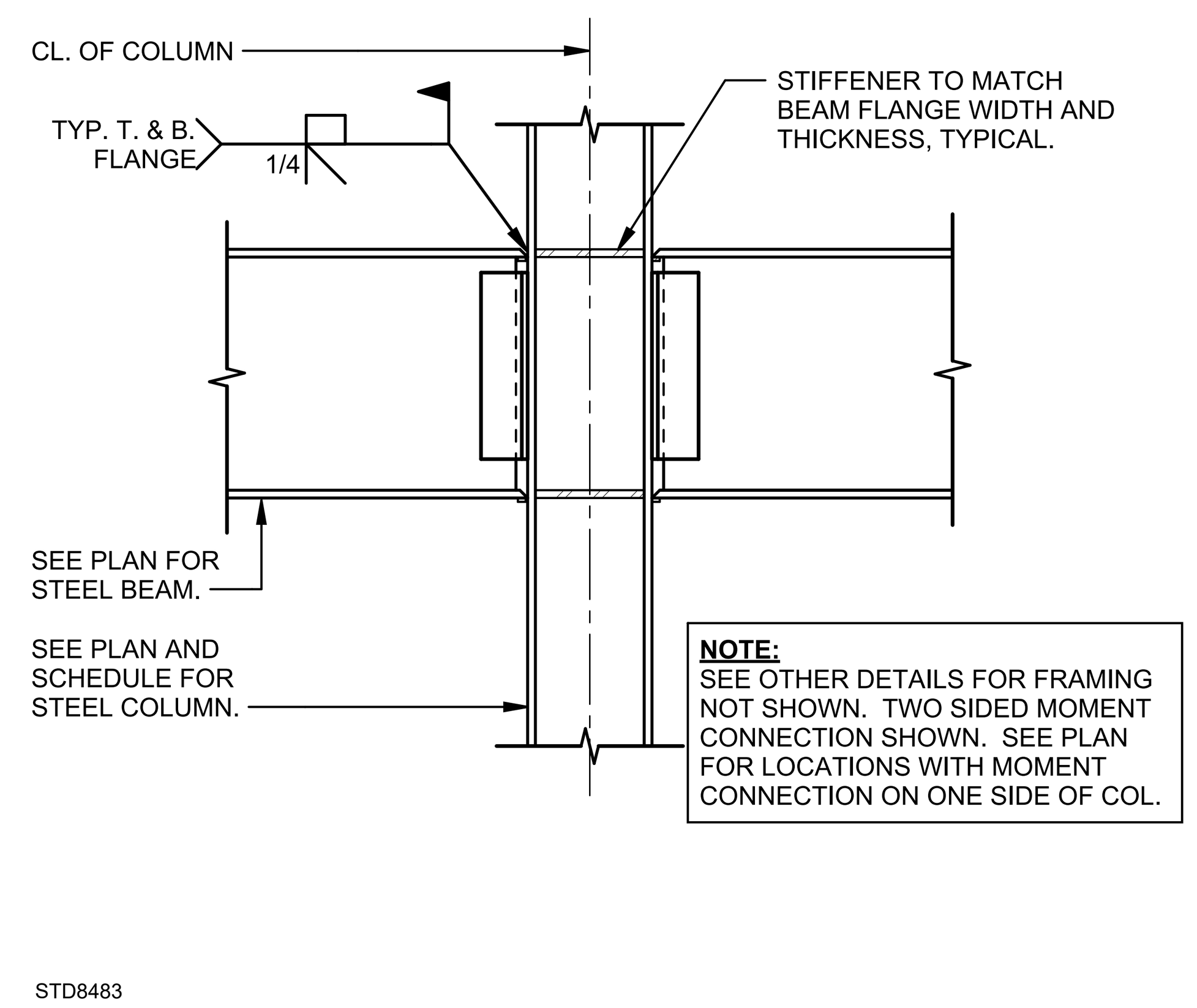
1. CONNECTIONS SHALL BE DESIGNED AND DETAILED BY STEEL FABRICATOR ACCORD WITH ALL APPLICABLE PROVISIONS OF THE AISC MANUAL OF STEEL CONSTRUCTION AND APPROVED BY THE ARCHITECT/ENGINEER.
2. MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE AS FOLLOWS: (2) ROWS FOR W8" AND W10"; (3) ROWS FOR W12" AND W14"; (4) ROWS FOR W16" AND W18"; (5) ROWS FOR W21" AND W24"; (6) ROWS FOR W27" AND W30"; AND (7) ROWS FOR W33" AND W36" BEAMS.
3. THE REACTION USED IN DESIGN SHALL BE ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM UNLESS A LARGER REACTION IS INDICATED IN THE CONTRACT DOCUMENTS.
4. DUE CONSIDERATION SHALL BE GIVEN TO BOLT SHEAR, BOLT BEARING ON CONNECTING MATERIAL, BEAM WEB TEAR-OUT (BLOCK SHEAR), SHEAR ON NET AREA OF THE CONNECTION ANGLES AND LOCAL BENDING STRESSES.



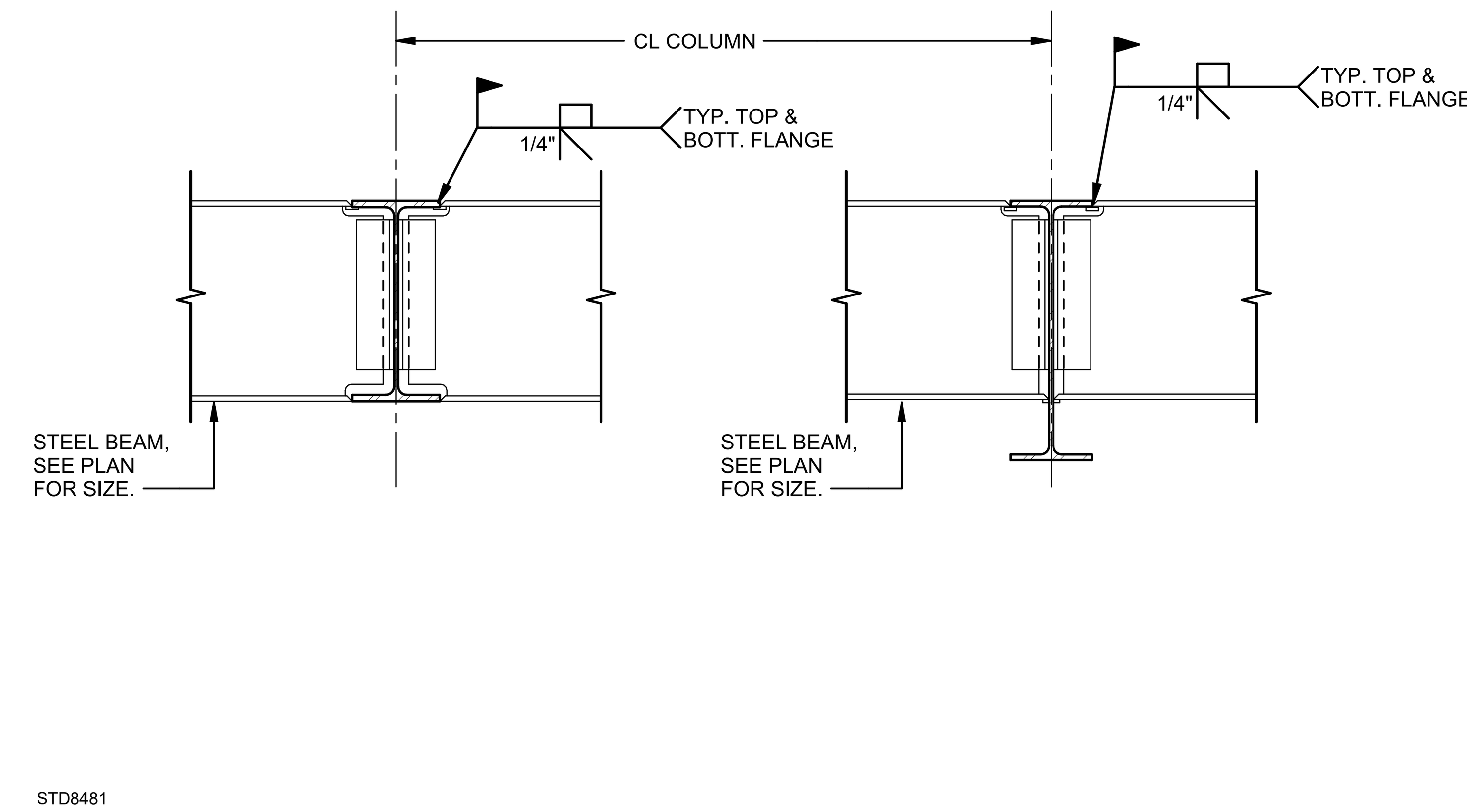
4 S9.1 **FRAMED BEAM CONNECTION (U.N.O.)**
1" = 1'-0"



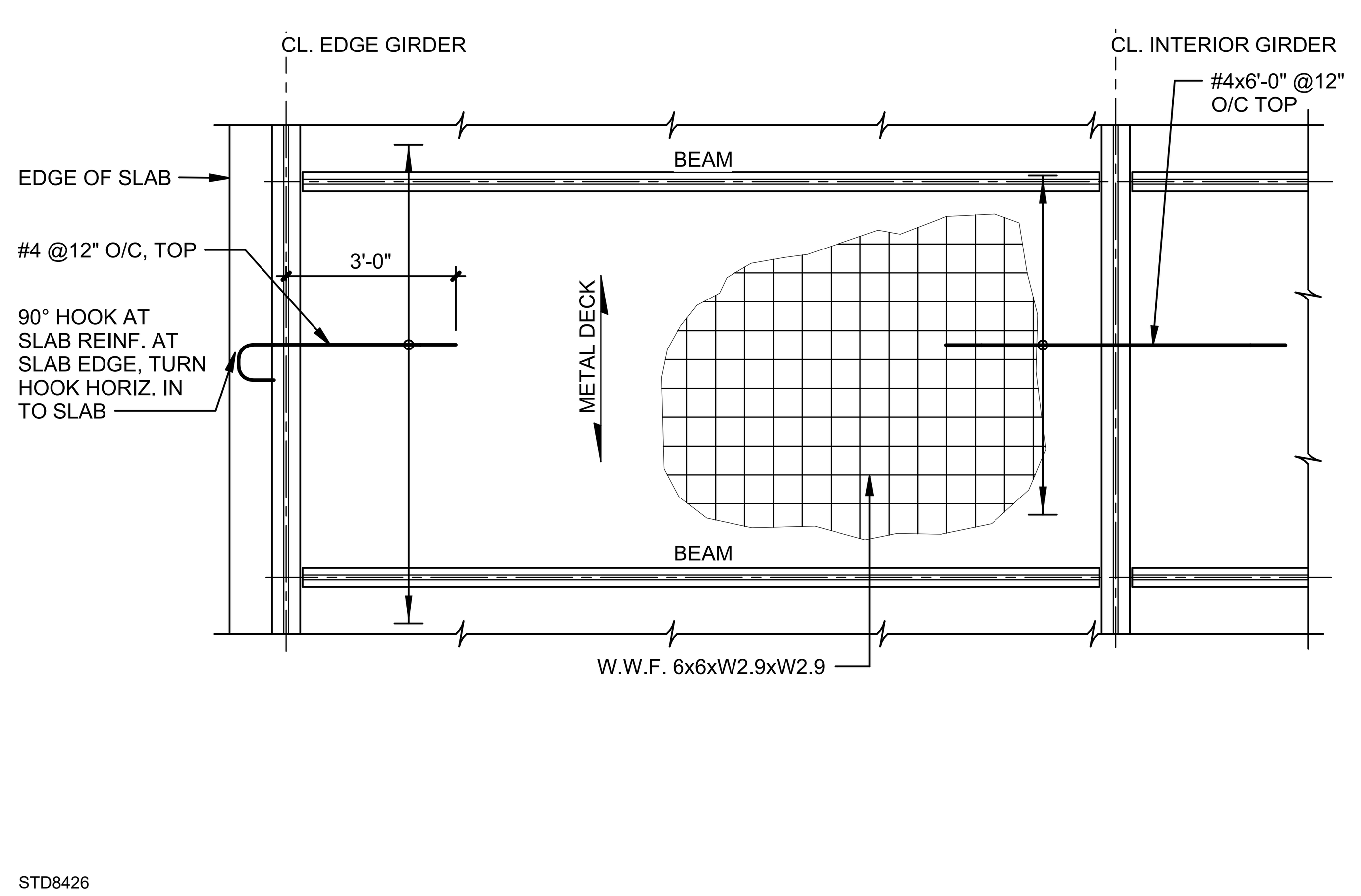
5 S9.1 **MOMENT CONNECTION AT COLUMN**
1" = 1'-0"



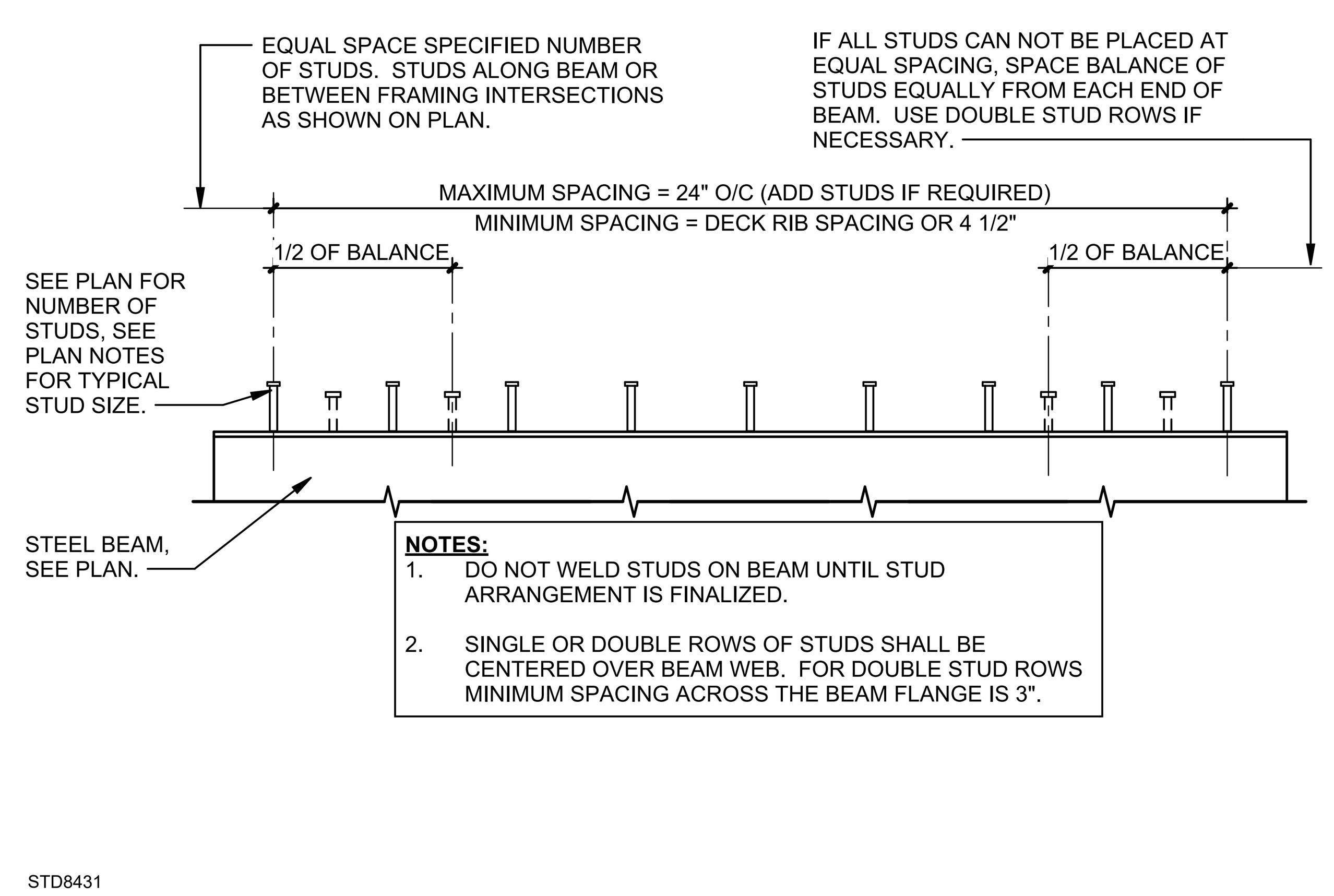
6 S9.1 **MOMENT CONNECTION AT COLUMN**
1" = 1'-0"



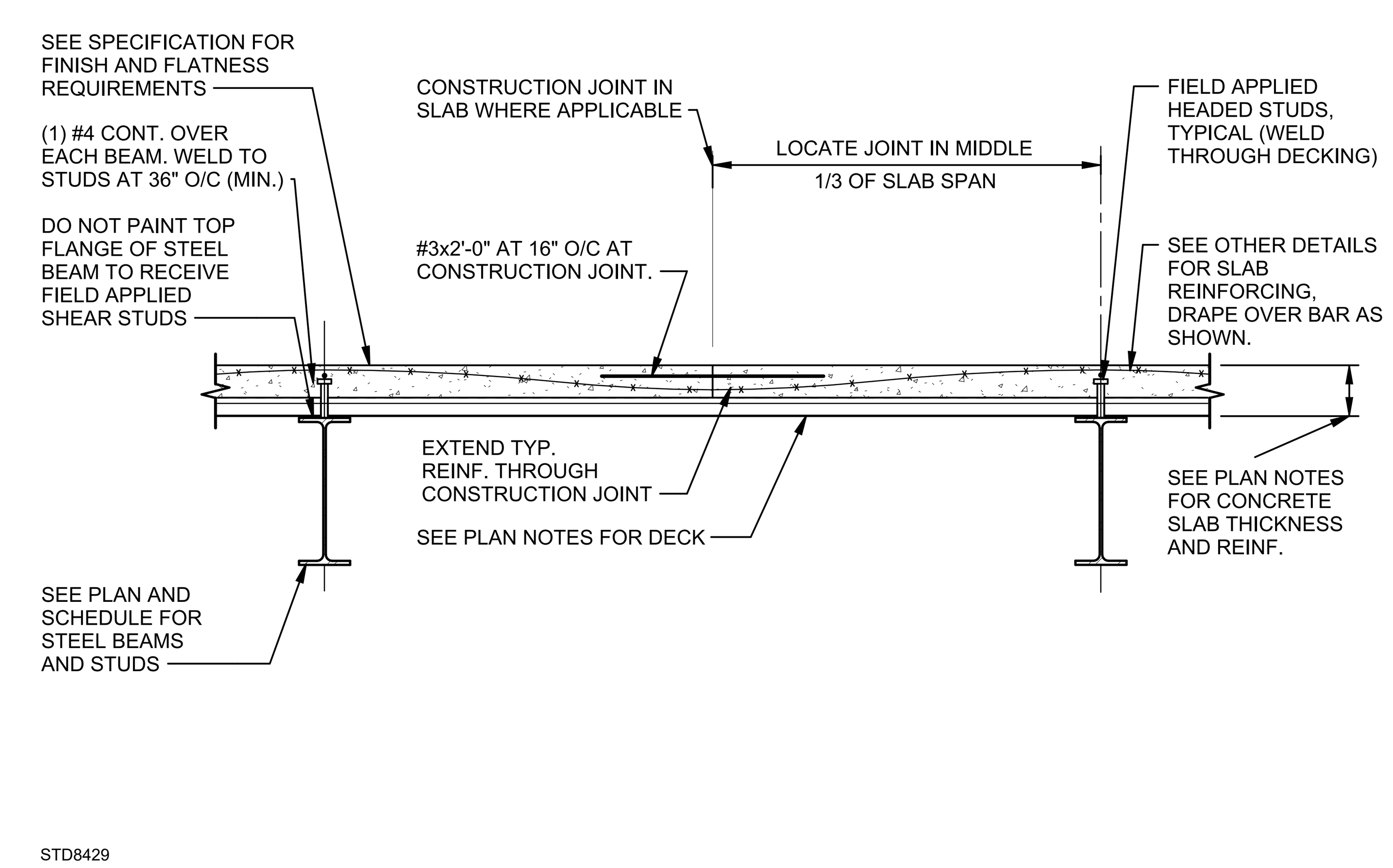
7 S9.1 **MOMENT CONNECTION AT BEAM**
1" = 1'-0"



8 S9.1 **FLOOR SLAB REINFORCING**
3/8" = 1'-0"



9 S9.1 **STUD SPACING ON BEAM**
3/4" = 1'-0"



10 S9.1 **COMPOSITE SLAB AND BEAM**
3/4" = 1'-0"

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www.skaeng.com
NC License No. F-0938
SKA Project Number 23034
Plotted:

NOT FOR CONSTRUCTION

ECG Terminal Building
Elizabeth City, NC

MK	DATE	DESCRIPTION

REVISIONS

TYPICAL FRAMING DETAILS

DATE	7/12/2024
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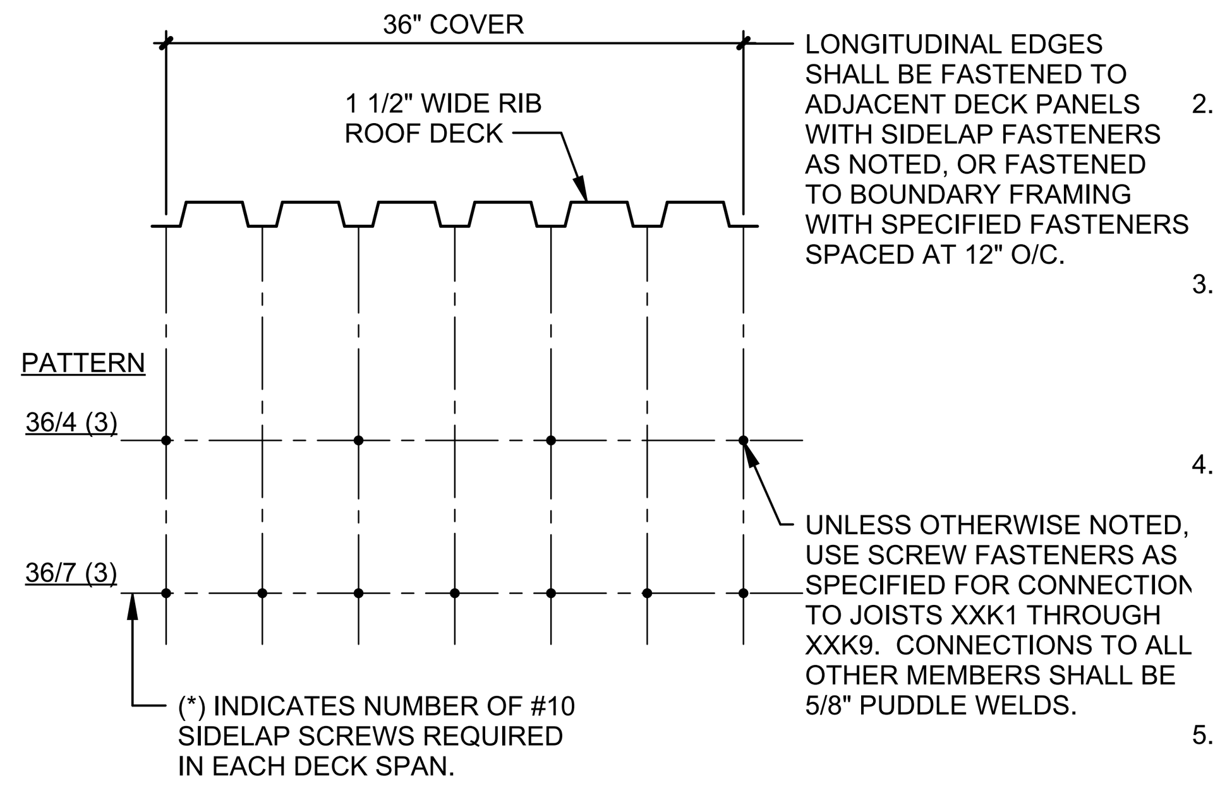
S9.1



ROOF DECK PLAN NOTES

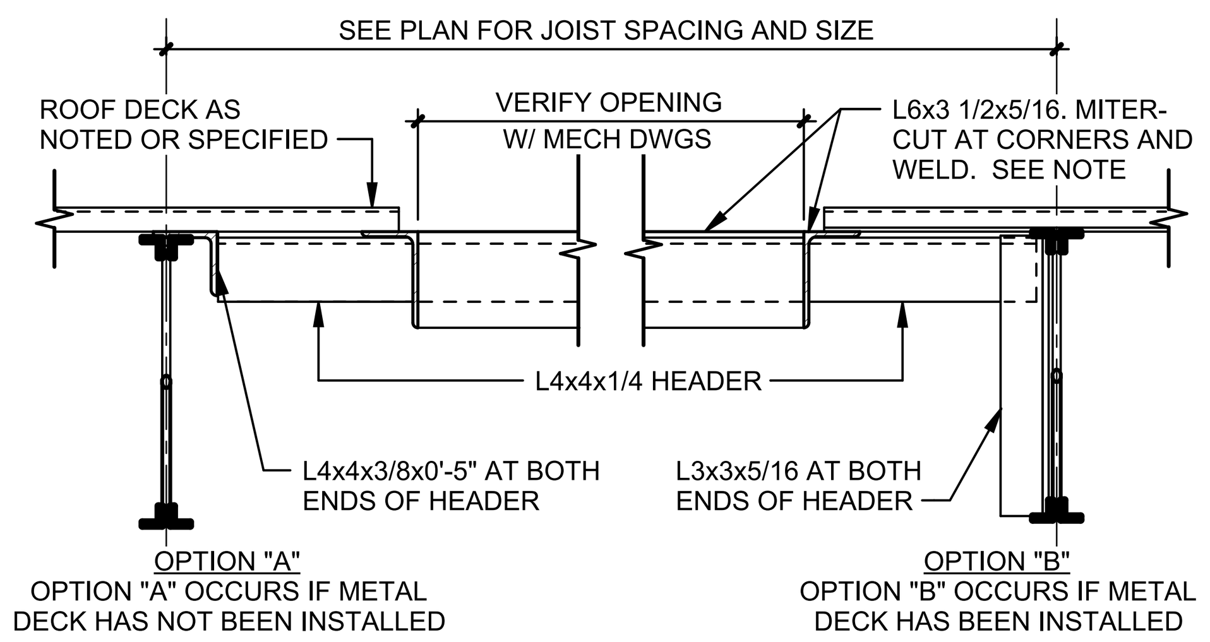
1. UNLESS OTHERWISE NOTED, ROOF DECK SHALL BE DEPTH AND GAUGE AS NOTED IN THE ROOF PLAN NOTES.
2. WHEREVER POSSIBLE, DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 4 SPANS. SEE ROOF DECK PLAN AND TYPICAL DECK FASTENER LAYOUT FOR DECK ATTACHMENT.
3. ALL EDGES OF ROOF DECK SHALL BE CONTINUOUSLY SUPPORTED, INSTALL MISCELLANEOUS STEEL AS REQUIRED. NO LOADS SHALL BE SUSPENDED FROM THE ROOF DECK.
4. COORDINATE WITH RELATED DRAWINGS THE SIZE AND LOCATION OF ANY OPENINGS REQUIRED THROUGH ROOF DECK, WHETHER SHOWN ON THE STRUCTURAL PLANS OR NOT. FRAME ALL OPENINGS GREATER THAN 6", INCLUDING ROOF DRAINS, WITH ANGLE FRAME. SEE TYPICAL DETAIL.
5. ROOF DECK SHALL BE ATTACHED TO ROOF FRAMING WITH 36/4 PATTERN UNLESS OTHERWISE NOTED. AT PERIMETER CMU WALLS ROOF DECK SHALL BE ATTACHED WITH 36/7 PATTERN.

STD8540

1 / S9.2 — ROOF DECK FASTENER LAYOUT
1" = 1'-0"

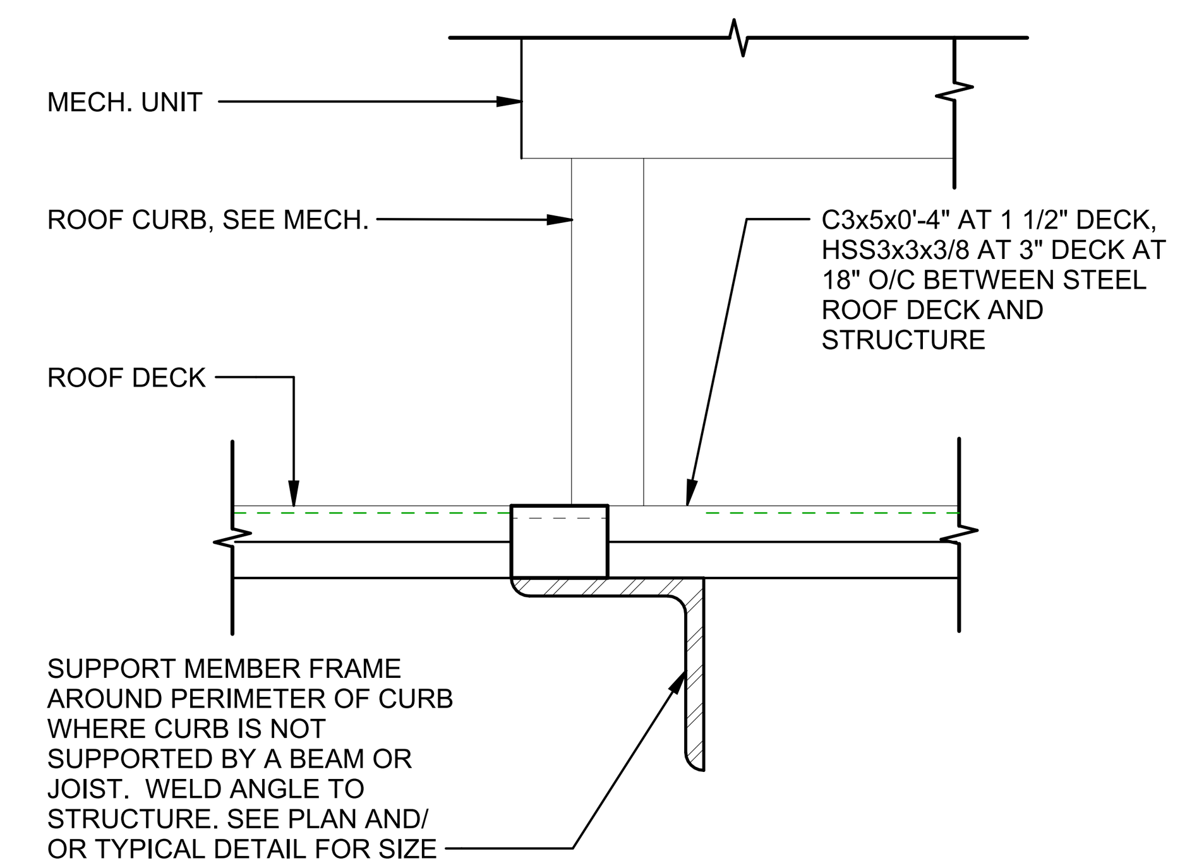
NOTES:

1. LONG LEG OF ANGLE (6") MAY BE TURNED UP OR DOWN AS REQUIRED TO SUIT NEEDS OF CURB. INSTALLER VERIFY OTHER FEATURES SUCH AS ROOF MATERIALS, WOOD BLOCKING, FLASHING ETC. ARE NOT SHOWN. SEE OTHER DRAWINGS.
2. DETAIL APPLIES FOR MECHANICAL OPENINGS WITH MAXIMUM DIMENSION OF 6'-0"x6'-0".



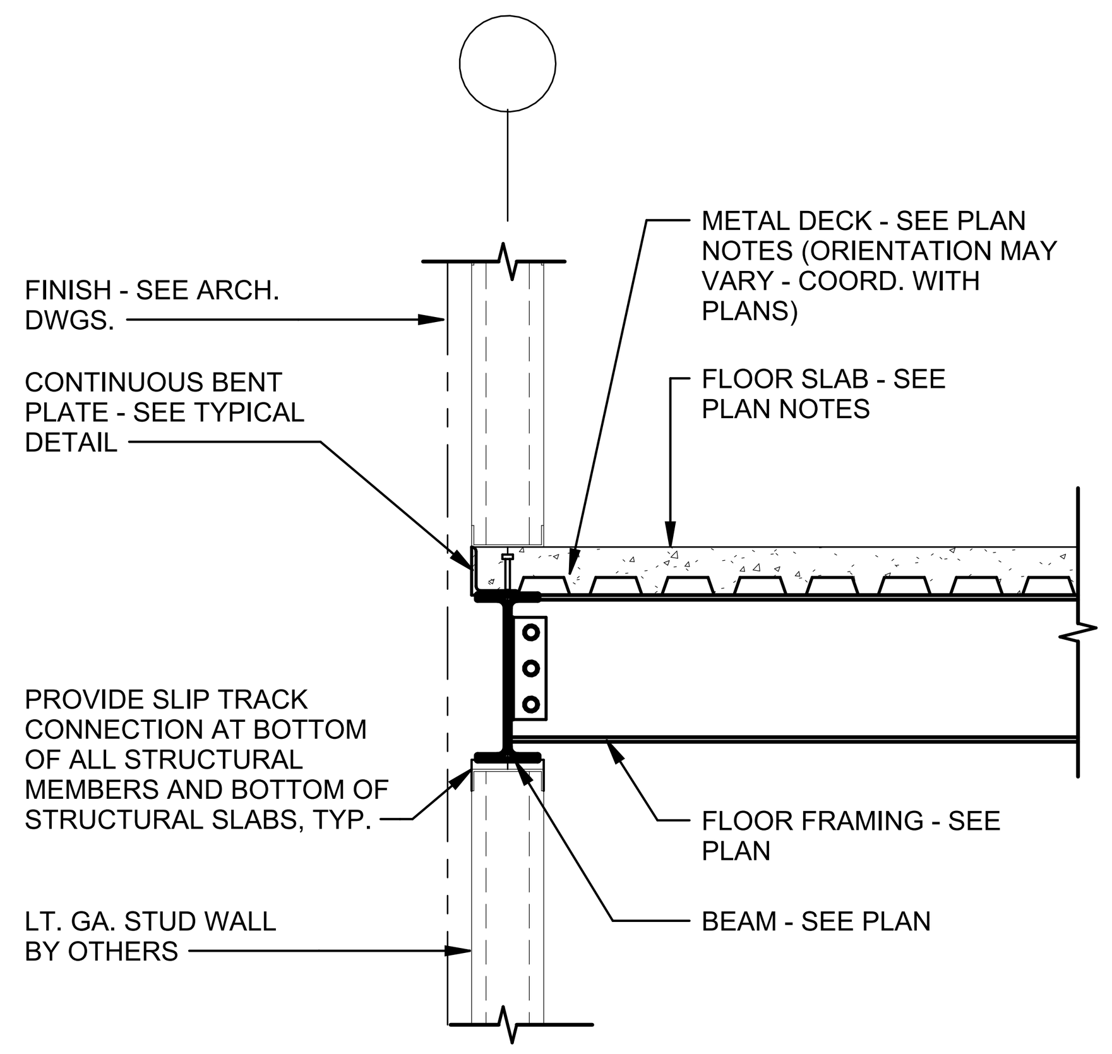
STD8548

2 / S9.2 — FRAMED ROOF OPENING
1" = 1'-0"

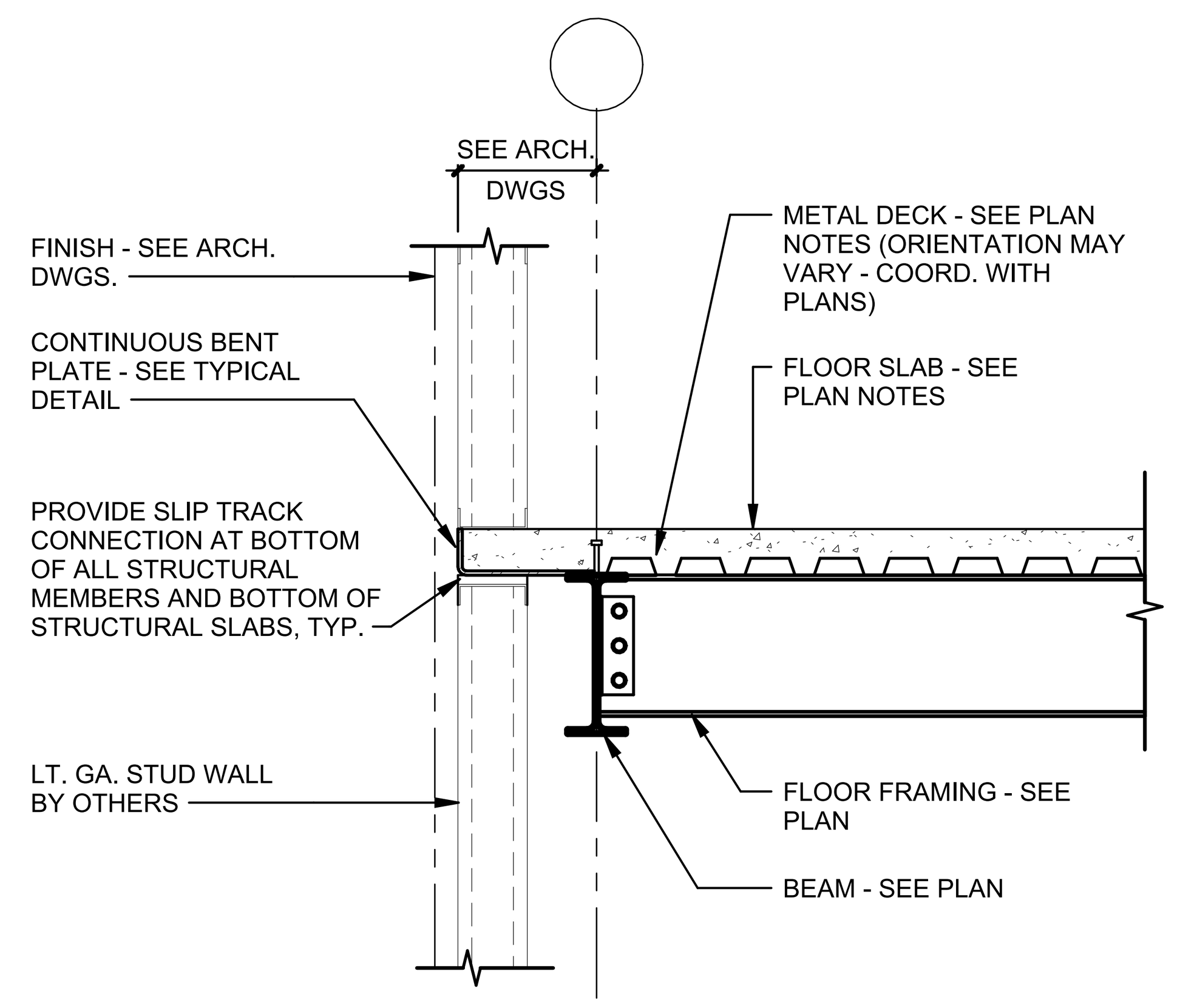


STD8547

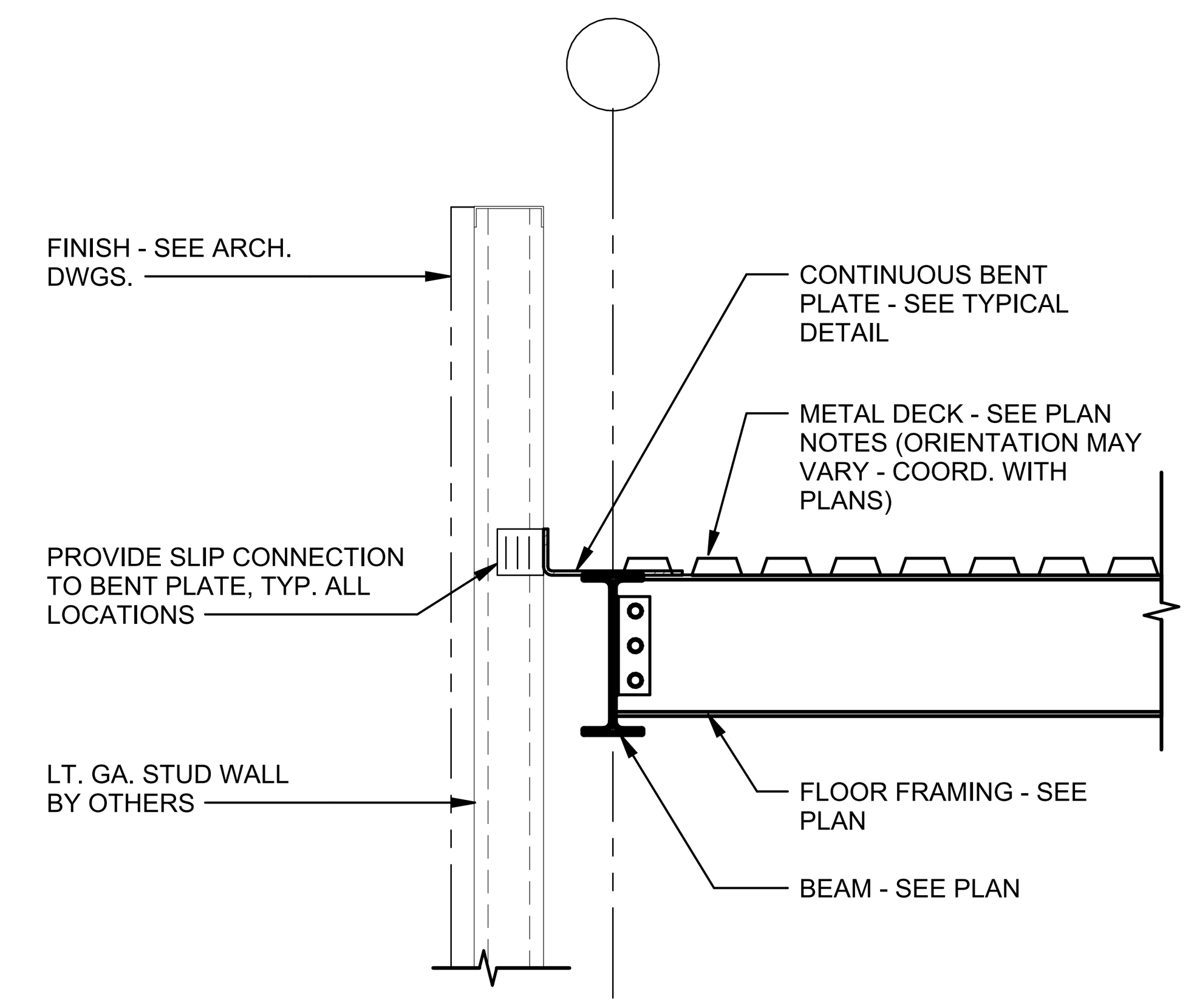
3 / S9.2 — FRAMED BELOW ROOF CURBS
3" = 1'-0"



4 / S9.2 — SECTION @ TYPICAL FLOOR SLAB EDGE
3/4" = 1'-0"



5 / S9.2 — SECTION @ TYPICAL FLOOR SLAB EDGE
3/4" = 1'-0"



6 / S9.2 — SECTION @ TYPICAL ROOF EDGE
3/4" = 1'-0"

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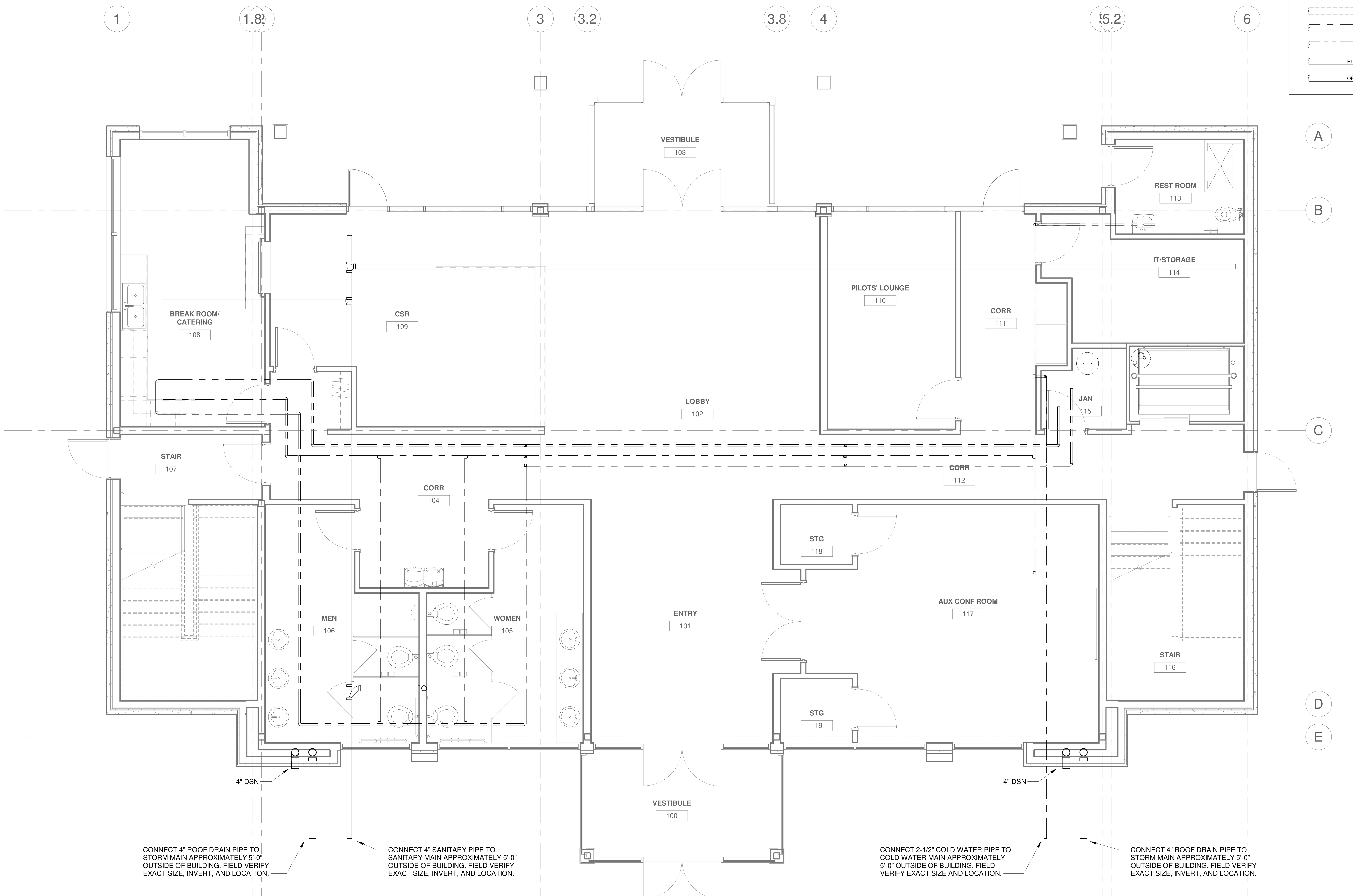
S9.2

NEW PLUMBING LINETYPE LEGEND

- NEW SANITARY SEWER PIPING
- NEW VENT PIPING
- NEW COLD WATER PIPING
- NEW HOT WATER PIPING
- RD — NEW ROOF DRAIN PIPING
- OF — NEW OVERFLOW ROOF DRAIN PIPING



1 PLUMBING FIRST FLOOR
1/4" = 1'-0"

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PLUMBING FIRST FLOOR PLAN

MECA
Mechanical Engineering Consulting Associates, Inc.
2330 Main St.
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Phone: (803) 765-9421
www.mecainc.com

Designed:	MAB
Approved:	PPC
Job No.:	24221
Plot Date:	08/13/2024

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P1.1

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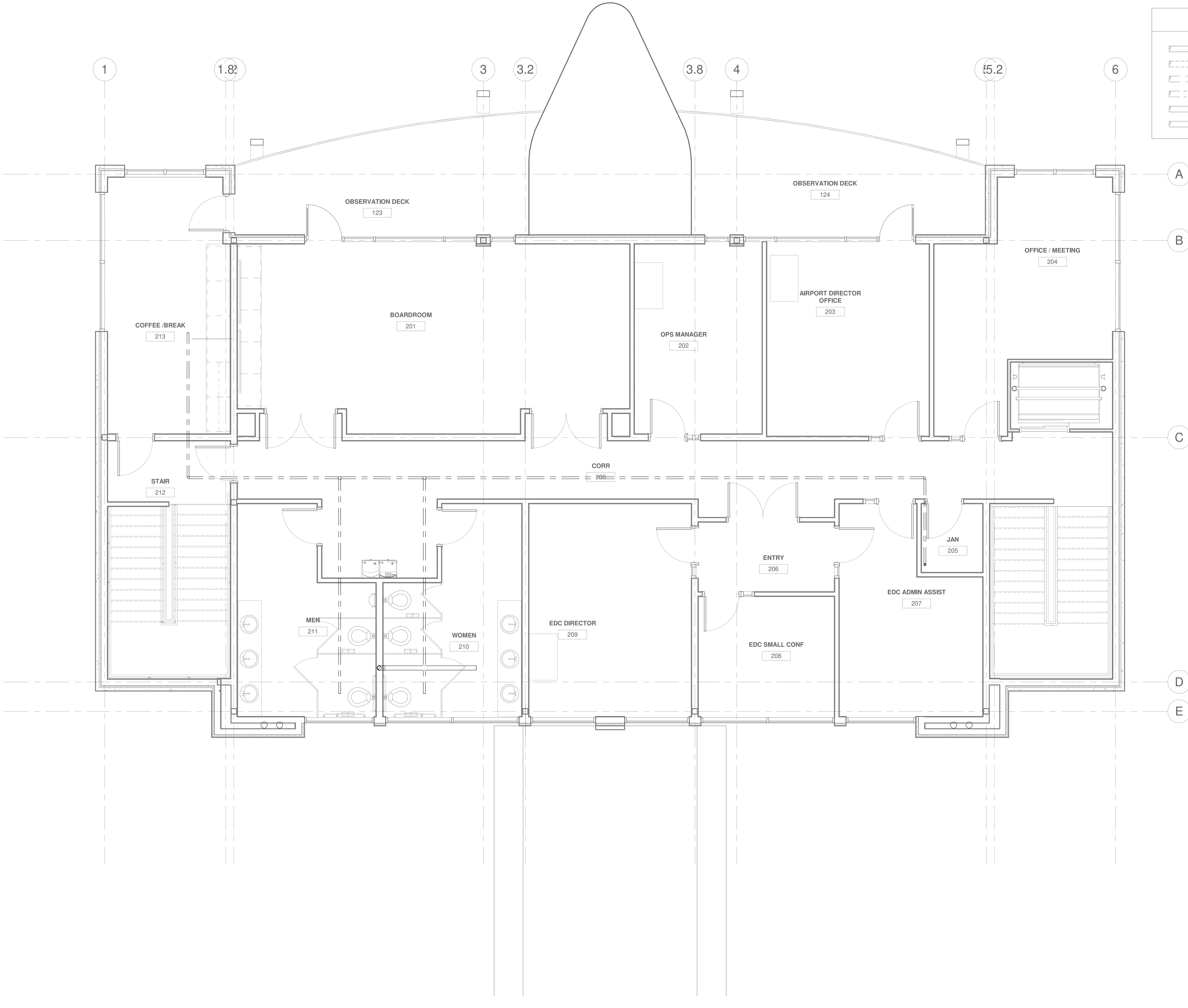

NEW PLUMBING LINETYPE LEGEND

- NEW SANITARY SEWER PIPING
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- NEW COLD WATER PIPING
- NEW HOT WATER PIPING
- RD — NEW ROOF DRAIN PIPING
- OF — NEW OVERFLOW ROOF DRAIN PIPING

1 PLUMBING SECOND FLOOR
1/4" = 1'-0"

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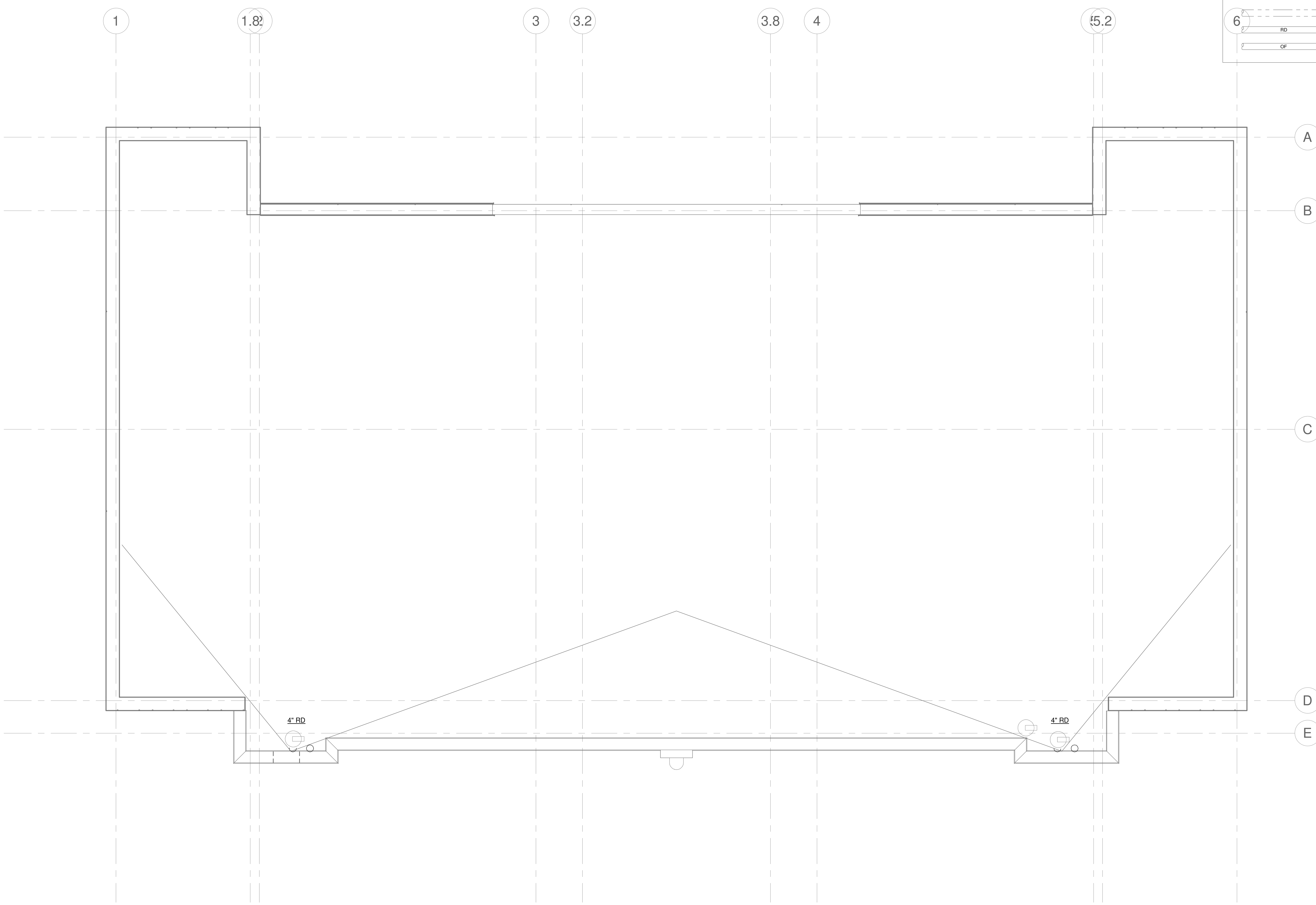
P2.1

NEW PLUMBING LINETYPE LEGEND

- NEW SANITARY SEWER PIPING
- NEW VENT PIPING
- NEW COLD WATER PIPING
- NEW HOT WATER PIPING
- RD — NEW ROOF DRAIN PIPING
- OF — NEW OVERFLOW ROOF DRAIN PIPING



1 PLUMBING ROOF
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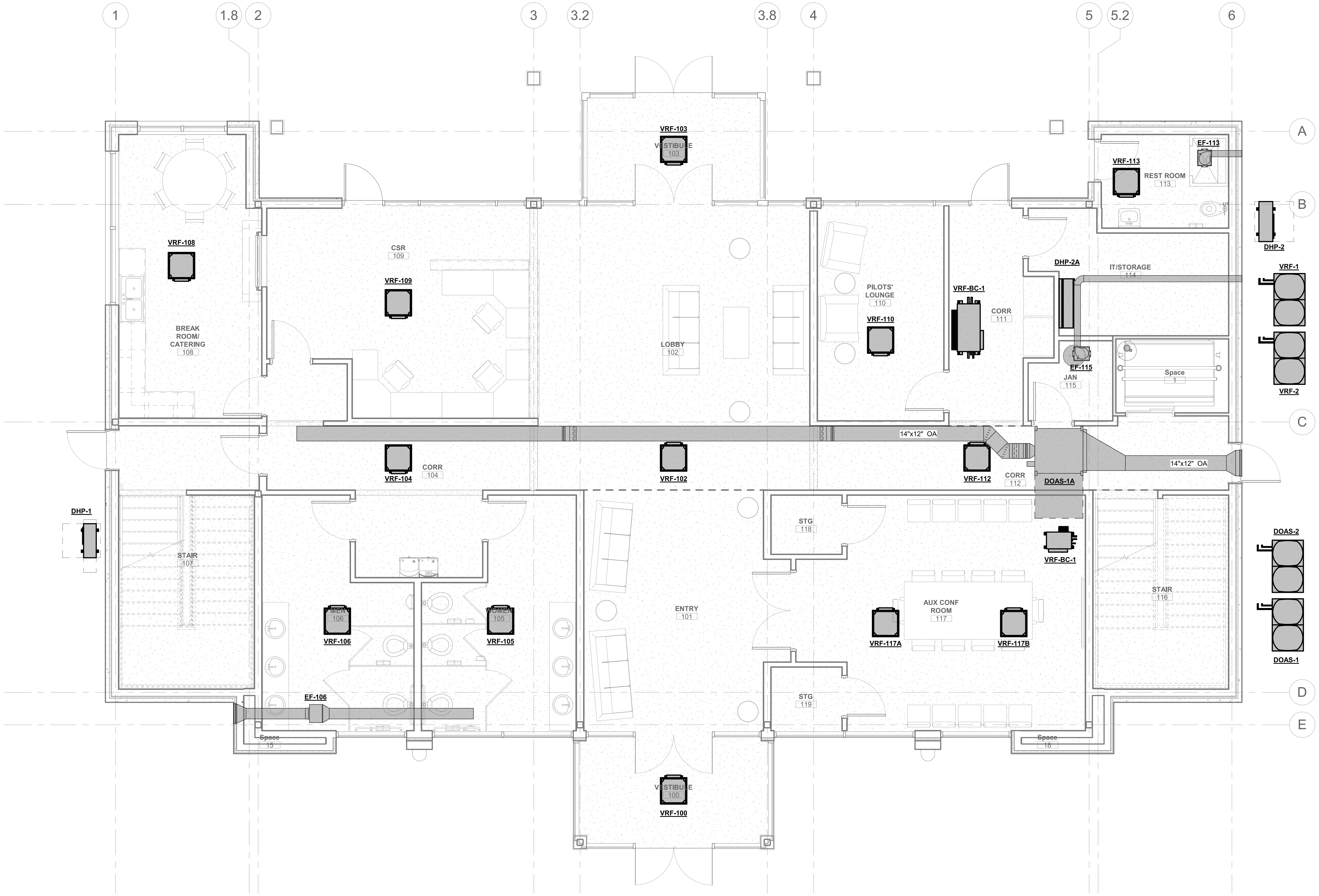

1 MECHANICAL FIRST FLOOR PLAN
1/4" = 1'-0"

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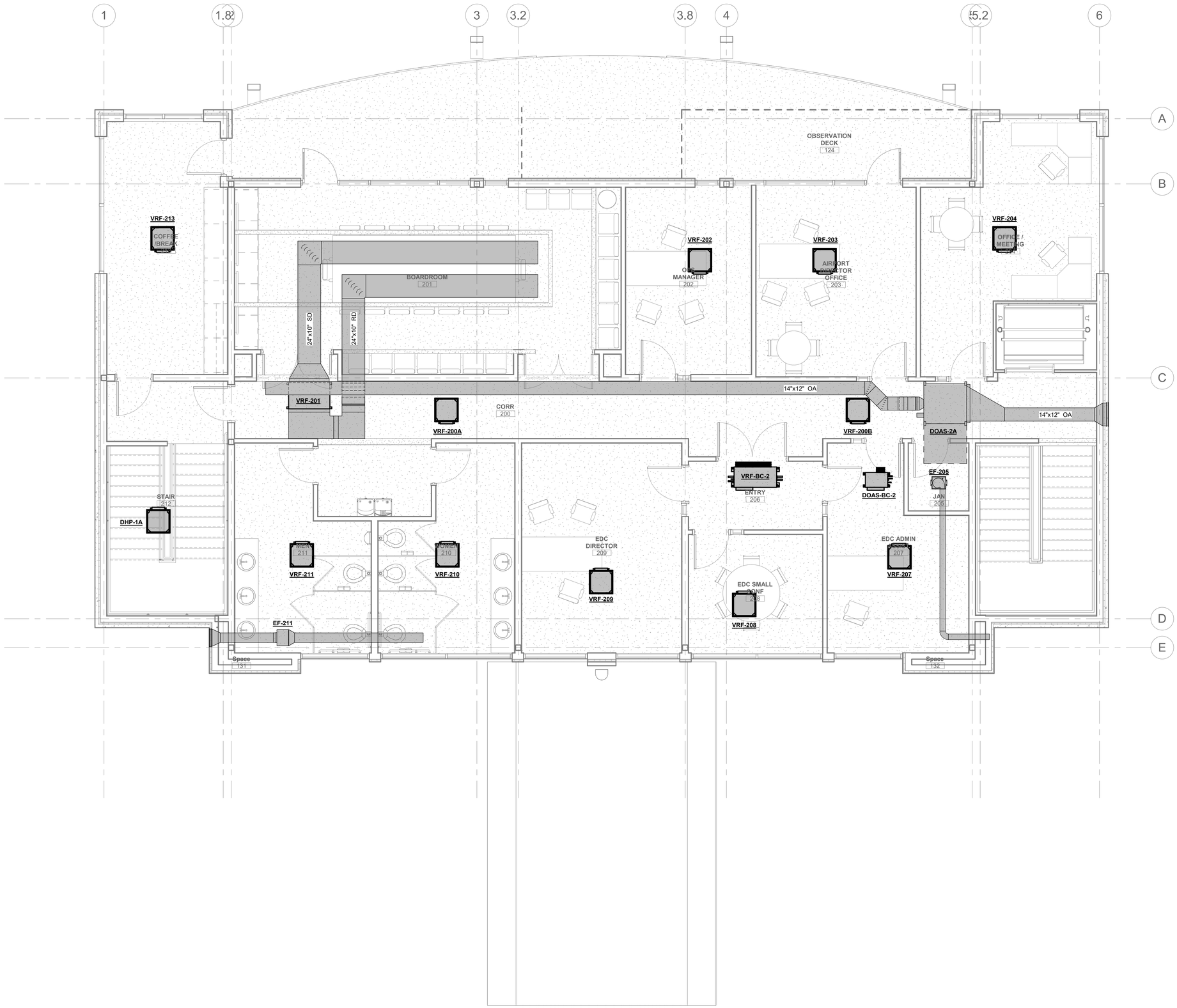

1 MECHANICAL SECOND FLOOR PLAN
1/4" = 1'-0"

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M1.2

LEGEND

SUPPLY

- A / 100 / 6 6 — DIFFUSER/GRILLE SYMBOL; AIRFLOW CAPACITY (CFM); SQUARE NECK SIZE (IN.)
- A / 100 / 6" — DIFFUSER/GRILLE SYMBOL; AIRFLOW CAPACITY (CFM); ROUND NECK SIZE (IN.)
- C / 200 / 48"L — DIFFUSER/GRILLE SYMBOL; AIRFLOW CAPACITY (CFM); SLOT LENGTH (IN.)

RETURN

- B / 6 6 — GRILLE/LOUVER/DAMPER SYMBOL; SQUARE NECK SIZE (IN.)
- B / 6" — GRILLE/LOUVER/DAMPER SYMBOL; ROUND NECK SIZE (IN.)
- D / 48"L — GRILLE SYMBOL; SLOT LENGTH (IN.)

SECTION ARROW

C / M 3 — DETAIL LETTER OR NO. DESIGNATION; DRAWING NO.; ARROW INDICATES SECTION VIEW

REFER TO GRILLE & DIFFUSER LEGEND FOR SCHEDULING DETAILS
DIMENSIONS NOTED ON PLANS ARE IN INCHES UNLESS OTHERWISE NOTED.

MECHANICAL SYMBOLS

	SUPPLY AIR DUCT SECTION
	RETURN AIR DUCT SECTION
T	THERMOSTAT
S	SWITCH
OS	OCCUPANCY SENSOR
	UNDERCUT DOOR
	TURNING VANES
	MANUAL DAMPER
M	MOTORIZED DAMPER
C	CONDENSATE PIPING
	4-WAY CEILING DIFFUSER
	CEILING RETURN/EXHAUST GRILLE
AD	ACCESS DOOR
FD	FIRE DAMPER
RFD	ROUND FIRE DAMPER
FC	FLEXIBLE CONNECTION
DAE	DUCT AIR EXTRACTOR
OA	OUTSIDE AIRFLOW
AFF	ABOVE FINISHED FLOOR
CO	CASED OPENING
PCO	PIPE CLEAN-OUT

MECHANICAL NOTES

-DO NOT SCALE DRAWING. ROUGH FROM EQUIPMENT MANUFACTURER AND ARCHITECTURAL DRAWINGS.

-DIMENSIONS NOTED ON PLANS ARE IN INCHES UNLESS OTHERWISE NOTED.

-DUCT SIZES NOTED ON PLANS ARE INTERIOR DIMENSIONS.

-PROVIDE BALANCING DAMPERS AT ALL RETURN AIR TAKE OFFS.

-ROUTE COPPER INSULATED CONDENSATE DRAIN LINES TO ROOF DRAINS, GUTTERS, FLOOR DRAINS, FRENCH DRAIN OR AS SHOWN ON DRAWINGS.

-MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EQUIPMENT VOLTAGES, ELECTRICAL REQUIREMENTS AND DISCONNECTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO RELEASING EQUIPMENT FROM MANUFACTURER.

- REFRIGERANT PIPIING SHALL BE TYPE L-ACR COPPER TUBING. THE PIPING SHALL BE CHARGED WITH DRY NITROGEN WHILE CONSTRUCTING SILVER SOLDER JOINTS. PROVIDE 1-1/2" THICK ARMAFLEX INSULATION.

-SOME REFRIGERANT LINE LENGTHS AND/OR VERTICAL LIFTS MAY EXCEED MANUFACTURER'S RECOMMENDATIONS, MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSURING THE EQUIPMENT MANUFACTURER SIZES ALL REFRIGERANT LINES FOR THESE PIECES OF EQUIPMENT.

-PROVIDE ALL UNSECURED EQUIPMENT WITH LOCKING REFRIGERANT CAPS PER IMC 1101.10

-ALL DUCTWORK SHOWN ON DRAWING IS DIAGRAMMATIC. ACTUAL RUN SHALL BE SHORTEST POSSIBLE WITHOUT SHARP BENDS. ALL DUCTWORK SHALL BE GALVANIZED STEEL INSTALLED PER SMACNA, INTERNATIONAL AND LOCAL CODES WITH 2-1/4" THICK FIBERGLASS DUCT WRAP INSULATION AND/OR AS OUTLINED IN SPECIFICATIONS.

-ALL DUCTWORK SHALL BE SEALED AIRTIGHT WITH MASTIC. NO HEAT SENSITIVE, PRESSURE SENSITIVE OR DUCT TAPE ALLOWED ON PROJECT.

-LOW PRESSURE DUCTWORK SHALL BE TESTED AND NOT EXCEED 3% AIRFLOW LOSS AT 2" PRESSURE CLASS.

-ALL DUCTWRAP INSULATION SHALL BE SEALED PER MANUFACTURER'S RECOMMENDATIONS FOR GLASS FABRIC AND MASTIC INSTALLATIONS. NO PRESSURE SENSITIVE TAPE SHALL BE ALLOWED.

-FLEXIBLE DUCTWORK WILL BE ALLOWED AT THE END OF GALVANIZED STEEL RUN OUTS; MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 8'-0". REFER TO TYPICAL RUN OUT DETAIL.

-ENTIRE MECHANICAL SYSTEMS SHALL BE INSTALLED PER 2018 NORTH CAROLINA STATE BUILDING CODES AND THE 2020 NATIONAL ELECTRICAL CODE WITH NORTH CAROLINA AMENDMENTS. ALSO, ALL LOCAL CODES & AUTHORITY HAVING JURISDICTION SHALL APPLY.

-COORDINATION OF ALL MECHANICAL SYSTEMS WITH OTHER DISCIPLINES IS THE RESPONSIBILITY OF THE CONTRACTOR. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLING. CONTRACTOR SHALL NOT PROCEED WITH UNCERTAINTY.

-PROVIDE PLASTIC NAMEPLATES FOR ALL EQUIPMENT SPECIFIED ON PROJECT. LABELING TAG SHALL BE SAME AS EQUIPMENT NUMBER.

-ALL PIPING SUPPORT SPACING SHALL BE PER MSS-SP69 AND WITHIN 18" OF CHANGE IN DIRECTION.

-ALL EQUIPMENT, PIPE AND DUCT SHALL BE SEISMICALLY RESTRAINED PER 2018 NCBC. SEISMIC RESTRAINT SYSTEMS AS MANUFACTURED BY MASON INDUSTRIES, AMBER/BOOTH OR APPROVED EQUAL WHO MUST BE A MEMBER OF VISCMA. CONTRACTOR TO PROVIDE SEISMIC CALCULATIONS AND DRAWINGS CERTIFIED AND STAMPED BY AN ENGINEER EMPLOYED BY THE MANUFACTURER. CALCULATIONS TO MEET ICC, IBC, NFPA, ASCE/SEI 7-10, SMACNA AND AUTHORITY HAVING JURISDICTION (AHJ).

-PROVIDE TESTING AND BALANCING OF ALL SYSTEMS BY A THIRD PARTY AABC OR NEBB CERTIFIED T&B CONTRACTOR. SUBMIT T&B FORMS PRIOR TO PERFORMING WORK FOR APPROVAL.

-GENERAL AND MECHANICAL CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTING TO ENGINEER/ARCHITECT WITH "APPROVED" OR "APPROVED AS NOTED" STAMPS FOR ENGINEER'S 10 CALENDAR DAY REVIEW.

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	MANUFACTURER	MODEL NUMBER	FINISH	DAMPER	REMARKS
A	LAY-IN DIFFUSER	PRICE	ASPD-31	OFF-WHITE	W/OBD	
B	LAY-IN RETURN	PRICE	APDDR-3	OFF-WHITE	---	FLAT BLACK PLENUM
C	SURF. MTD. DIFFUSER	PRICE	ASPD-31	OFF-WHITE	W/OBD	12"x12" PANEL FOR 6" & 8" W/ PLASTER FRAME
D	SURF. MTD. RETURN	PRICE	APDDR-1	OFF-WHITE	---	16"x16" PANEL FOR 6", 8" & 10" W/ PLASTER FRAME
	LINEAR BAR GRILLE	PRICE	LBP-16A-1000	ALUMINUM	W/OBD	COLOR PER ARCHITECT: SURF. INSUL. PLENUM
	DUCT AIR EXTRACTOR	PRICE	AE-1S			BLADES PARALLEL TO SHORT DIM.
	BACK DRAFT DAMPER	RUSKIN	NMS-2	MILL		
	LOUVER	RUSKIN	EME520DD	KYNAR 500		COLOR PER ARCHITECT
FD	FIRE DAMPER	RUSKIN	IBD2 "STYLE B"	MILL		
RFD	ROUND FIRE DAMPER	RUSKIN	IBD2 "STYLE CR"	MILL		
	MANUAL DAMPER	RUSKIN	MD-35/MDRS-25	MILL		
M	MOTORIZED DAMPER	RUSKIN	CD-60/CDRS-25	MILL		

REMARKS:

ALTERNATE AIR DISTRIBUTION SUPPLIERS SHALL INSURE THAT "NC" AND PERFORMANCE DATA MATCHES SPECIFIED DEVICES.

COORDINATE ALL AIR DISTRIBUTION STYLES AND LOCATIONS WITH ARCHITECTURAL CEILING GRID AND ELECTRICAL LIGHT LAYOUT PRIOR TO SUBMITTING SHOP DRAWINGS OR ORDERING.

MINI-SPLIT SYSTEM SCHEDULE

MANUFACTURER		TRANE / MITSUBISHI	
INDOOR UNIT	SYMBOL	DHP-1A	DHP-2A
	MODEL NUMBER	0.75 TON	2.5 TON
	TYPE	CASSETTE	WALL MOUNT
	SUPPLY AIRFLOW	---	---
	EXTERNAL S.P. (IN.)	---	---
	FAN MOTOR WATTS	---	---
	DRY BULB (°F)	---	---
	WET BULB (°F)	---	---
	UNIT VOLTAGE	FROM DHP-1	FROM DHP-2
	WEIGHT (LBS.)	---	---
OUTDOOR UNIT	SYMBOL	DHP-1	DHP-2
	MODEL NUMBER	0.75 TON	2.5 TON
	TYPE	SLAB	SLAB
	FAN QNTY / WATTS	---	---
	COMP. QUANTITY	---	---
	M.C.A.	9	19
	M.O.C.P.	15	26
	UNIT VOLTAGE	208/1/60	208/1/60
	WEIGHT (LBS.)	---	---
COOLING CAPACITY	AMBIENT (°F)	95	95
	T.C. RANGE (BTUH)	---	---
	S.C. RANGE (BTUH)	---	---
INTEGRATED HTG. CAP. @ 17°F		---	---
SEER / EER RATING @ AHRI		---	---
HSPF / COP RATING @ 47°F		---	---

REMARKS:

-PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS. INDOOR UNIT RECEIVES POWER AND COMMUNICATION FROM OUTDOOR UNIT THROUGH FIELD SUPPLIED INTERCONNECTED WIRING BY ELECTRICAL CONTRACTOR.

-PROVIDE UNITS WITH LOW AMBIENT COOLING OPERATION DOWN TO 0°F WITH WIND BAFFLE ACCESSORY, R-410A VARIABLE REFRIGERANT FLOW, DC INVERTER-DRIVEN COMPRESSOR, WIRED REMOTE CONTROLLER, REFCO CONDENSATE PUMP MODEL GOBI II, AND DPLS1 SOLID STATE DRAIN PAN LEVEL SENSOR.

FAN SCHEDULE

SYMBOL	EF-115 & 205	EF-113	EF-106 & 211
MANUFACTURER		COOK	
MODEL NUMBER			
AIRFLOW (C.F.M.)	100	125	300
STATIC PRESSURE (IN.)	0.3	0.25	0.35
DRIVE TYPE			
DAMPER SIZE (IN)			
SONES			
MOTOR POWER (W)	38	46	93
FAN R.P.M.			
VOLTAGE	115/1/60	115/1/60	115/1/60
WEIGHT (EXCLUDING CURB) (LBS.)	17	17	32

REMARKS:

*PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.

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M2.1

VRF HEAT PUMP SCHEDULE

MANUFACTURER		TRANE					MANUFACTURER
INDOOR UNIT	SYMBOL	VRF-101, 103, & 109	VRF-102, 105, 106, 110, 117A, & 117B	VRF-104, 112, & 113	VRF-108	SYMBOL	INDOOR UNIT
	MODEL NUMBER	15 MBH	12 MBH	5 MBH	18 MBH	MODEL NUMBER	
	TYPE	CASSETTE	CASSETTE	CASSETTE	CASSETTE	TYPE	
	SUPPLY AIRFLOW	---	---	---	---	SUPPLY AIRFLOW	
	EXTERNAL S.P. (IN)	---	---	---	---	EXTERNAL S.P. (IN)	
	FAN MOTOR AMPS	---	---	---	---	FAN MOTOR AMPS	
	NET TOTAL CAP. (BTUH)	---	---	---	---	NET TOTAL CAP. (BTUH)	
	NET SENS. CAP. (BTUH)	---	---	---	---	NET SENS. CAP. (BTUH)	
	E.A.T. (DB/WB) °F	---	---	---	---	E.A.T. (DB/WB) °F	
	NOM. HEAT. BTUH	---	---	---	---	NOM. HEAT. BTUH	
	MCA	0.35	0.29	0.24	0.5	MCA	
	UNIT VOLTAGE	208/1/60	208/1/60	208/1/60	208/1/60	UNIT VOLTAGE	
	WEIGHT (LBS.)	32	32	29	32	WEIGHT (LBS.)	
BRANCH CONTROLLER	SYMBOL	VRF-BC-1				SYMBOL	BRANCH CONTROLLER
	MODEL NUMBER	16 PORT				MODEL NUMBER	
	MCA	1.6				RLA	
	UNIT VOLTAGE	208/1/60				UNIT VOLTAGE	
OUTDOOR UNIT	SYMBOL	VRF-1				SYMBOL	OUTDOOR UNIT
	SYSTEM MODEL	10 T				SYSTEM MODEL	
	COMP. TYPE / QTY.	---				COMP. TYPE / QTY.	
	COMP. R.L.A.	---				COMP. R.L.A.	
	FAN QTY. / F.L.A.	---				FAN QTY. / F.L.A.	
	M.C.A. (FLA)	50				M.C.A. (FLA)	
	M.F.S. (OPD)	80				M.F.S. (OPD)	
	UNIT VOLTAGE	208/3/60				UNIT VOLTAGE	
	WEIGHT (LBS.)	600				WEIGHT (LBS.)	
COOLING CAPACITY	AMBIENT (°F)	95				AMBIENT (°F)	COOLING CAPACITY
	TOTAL (NOM BTUH)	---				(NOM BTUH) TOTAL	
SEER / EER RATING @ ARI		---					SEER / EER RATING @ ARI
HSPF / COP @ 47°F		---					HSPF / COP @ 47°F

REMARKS:

-PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.

-DHP-3A INDOOR UNIT RECEIVES POWER AND COMMUNICATION FROM OUTDOOR UNIT THROUGH FIELD SUPPLIED INTERCONNECTED WIRING BY ELECTRICAL CONTRACTOR.

-PROVIDE UNITS WITH LOW AMBIENT COOLING OPERATION DOWN TO 23°F, R-410A VARIABLE REFRIGERANT FLOW (VRF), DC INVERTER / DRIVEN SCROLL / HERMETIC COMPRESSOR, AND WIRED REMOTE CONTROLLER FOR EACH INDOOR UNIT, CONDENSATE PUMP, AND SOLID STATE DRAIN PAN LEVEL SENSOR.

-PROVIDE FACTORY FURNISHED BC CONTROLLER AND PIPING BRANCH JOINTS. ENTIRE INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH SYSTEM MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.

VRF HEAT PUMP SCHEDULE

MANUFACTURER		TRANE							MANUFACTURER
INDOOR UNIT	SYMBOL	VRF-200A	VRF-200B, 202, & 211	VRF-201	VRF-203, 207, & 210	VRF-204 & 213	VRF-208 & 209	SYMBOL	INDOOR UNIT
	MODEL NUMBER	5 MBH	8 MBH	30 MBH	12 MBH	18 MBH	15 MBH	MODEL NUMBER	
	TYPE	CASSETTE	CASSETTE	MID-STATIC	CASSETTE	CASSETTE	CASSETTE	TYPE	
	SUPPLY AIRFLOW	---	---	---	---	---	---	SUPPLY AIRFLOW	
	EXTERNAL S.P. (IN)	---	---	---	---	---	---	EXTERNAL S.P. (IN)	
	FAN MOTOR AMPS	---	---	---	---	---	---	FAN MOTOR AMPS	
	NET TOTAL CAP. (BTUH)	---	---	---	---	---	---	NET TOTAL CAP. (BTUH)	
	NET SENS. CAP. (BTUH)	---	---	---	---	---	---	NET SENS. CAP. (BTUH)	
	E.A.T. (DB/WB) °F	---	---	---	---	---	---	E.A.T. (DB/WB) °F	
	NOM. HEAT. BTUH	---	---	---	---	---	---	NOM. HEAT. BTUH	
	MCA	0.24	0.28	4.25	0.29	0.5	0.35	MCA	
	UNIT VOLTAGE	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	UNIT VOLTAGE	
	WEIGHT (LBS.)	29	29	84	32	32	32	WEIGHT (LBS.)	
BRANCH CONTROLLER	SYMBOL	VRF-BC-2						SYMBOL	BRANCH CONTROLLER
	MODEL NUMBER	16 PORT						MODEL NUMBER	
	MCA	1.6						RLA	
	UNIT VOLTAGE	208/1/60						UNIT VOLTAGE	
OUTDOOR UNIT	SYMBOL	VRF-2						SYMBOL	OUTDOOR UNIT
	SYSTEM MODEL	12 T						SYSTEM MODEL	
	COMP. TYPE / QTY.	---						COMP. TYPE / QTY.	
	COMP. R.L.A.	---						COMP. R.L.A.	
	FAN QTY. / F.L.A.	---						FAN QTY. / F.L.A.	
	M.C.A. (FLA)	60						M.C.A. (FLA)	
	M.F.S. (OPD)	100						M.F.S. (OPD)	
	UNIT VOLTAGE	208/3/60						UNIT VOLTAGE	
	WEIGHT (LBS.)	600						WEIGHT (LBS.)	
COOLING CAPACITY	AMBIENT (°F)	95						AMBIENT (°F)	COOLING CAPACITY
	TOTAL (NOM BTUH)	---						(NOM BTUH) TOTAL	
SEER / EER RATING @ ARI		---							SEER / EER RATING @ ARI
HSPF / COP @ 47°F		---							HSPF / COP @ 47°F

REMARKS:

-PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.

-DHP-3A INDOOR UNIT RECEIVES POWER AND COMMUNICATION FROM OUTDOOR UNIT THROUGH FIELD SUPPLIED INTERCONNECTED WIRING BY ELECTRICAL CONTRACTOR.

-PROVIDE UNITS WITH LOW AMBIENT COOLING OPERATION DOWN TO 23°F, R-410A VARIABLE REFRIGERANT FLOW (VRF), DC INVERTER / DRIVEN SCROLL / HERMETIC COMPRESSOR, AND WIRED REMOTE CONTROLLER FOR EACH INDOOR UNIT, CONDENSATE PUMP, AND SOLID STATE DRAIN PAN LEVEL SENSOR.

-PROVIDE FACTORY FURNISHED BC CONTROLLER AND PIPING BRANCH JOINTS. ENTIRE INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH SYSTEM MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.

SPLIT-SYSTEM OUTSIDE AIR UNIT SCHEDULE

MANUFACTURER			TRANE
INDOOR UNIT	SYMBOL		DOAS-1A & 2A
	MODEL NUMBER		---
	AIRFLOW (CFM TO SPACE)		700
	SUPPLY FAN	TYPE	---
		NOMINAL HORSEPOWER	---
		BRAKE HORSEPOWER	---
		E.S.P. (IN.)	---
		TOTAL STATIC PRESS. (IN.)	---
	COOLING COIL	TOT. CAP. (BTUH)	---
		SENS. CAP. (BTUH)	---
		E.A.T. (DB/WB °F)	95 / 81
		L.A.T. (DB/WB/DP °F)	---
		ROWS	---
	HOT GAS REHEAT	EAT (DB/WB °F)	---
		LAT (DB/WB/DP °F)	---
	MCA		3
	MOP		15
	UNIT VOLTAGE		208/3/60
	WEIGHT		220
BRANCH CONTROLLER	SYMBOL		DOAS-BC-1 & 2
	MODEL NUMBER		---
	MCA		0.38
	UNIT VOLTAGE		208/1/60
OUTDOOR UNIT	SYMBOL		DOAS-1 & 2
	MODEL NUMBER		8 TON
	FAN QUANTITY / kW		---
	COMPRESSOR QUANTITY		---
	RLA		---
	MCA		44
	MOP		70
	UNIT VOLTAGE		208/3/60
	WEIGHT		---
	AMBIENT(°F)		95

REMARKS:

- PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.
- PROVIDE UNIT WITH HORIZONTAL DISCHARGE CONFIGURATION, 1"-MERV 8 PLEATED FILTERS, HINGED ACCESS DOORS, HAIL GUARD, ECM FAN, NON-FUSED DISCONNECT, 1" DOUBLE-WALL PANELS AND ACCESS DOORS.
- PROVIDE UNIT WITH MODULATING HOT GAS REHEAT AND 439 STAINLESS STEEL DRAIN PAN.
- PROVIDE UNIT WITH SUPPLY DISCHARGE SENSOR,DISCHARGE AIR CONTROL WITH BACNET W/ DISPLAY AND PROGRAMMABLE CONTROLLER (UC600)

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ELIZABETH CITY REGIONAL AIRPORT

NOT FOR CONSTRUCTION

Elizabeth City Regional Airport
Terminal Building
Consolidated Rd
Elizabeth City, NC 27909

MK DATE DESCRIPTION
REVISIONS

MECHANICAL SCHEDULES

MECA
Mechanical Engineering Consulting Associates, Inc.
2330 Main St.
Columbia, South Carolina 29201
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Designed:	CAB / JNM
Approved:	PPC
Job No.:	24221
Plot Date:	08/13/2024

DATE	08/13/24
DRAWN BY	Author
CHECK BY	Checker
JOB NO.	023-031
SHEET	

M2.2

ELECTRICAL SITE LEGEND (ALL SYMBOLS IN GREY ARE DESIGNATED AS EXISTING)

LIGHTING FIXTURE, POLE MOUNTED, TYPE AS INDICATED. NO. OF HEADS AS SHOWN ON PLANS.

LIGHTING FIXTURE, POLE MOUNTED, TYPE AS INDICATED. NO. OF HEADS AS SHOWN ON PLANS.

LIGHTING LEGEND

LIGHTING FIXTURE, 1X4 WALL WRAP – SURFACE MOUNTED

LIGHTING FIXTURE, OUTDOOR WALL PACK

LIGHTING FIXTURE – ROUND, RECESSED MOUNTED

LIGHTING FIXTURE – PENDANT

LIGHTING FIXTURE, STRIP – SURFACE MOUNTED

POWER DEVICE LEGEND

FLOOR MOUNTED BOX. CONTAINED DEVICES ARE MOUNTED IN THE FLOOR

(E) POWER CONNECTION

RECEPTACLE, DUPLEX, NEMA 5-20R, WALL MOUNTED

AC RECEPTACLE, DUPLEX, NEMA 5-20R, WALL MOUNTED; AC-ABOVE COUNTER

AC RECEPTACLE, (GFI-GROUND FAULT INTERRUPTING; AC-ABOVE COUNTER

WP RECEPTACLE, (GFI-GROUND FAULT INTERRUPTING; WP-WEATHERPROOF

RECEPTACLE, DOUBLE DUPLEX

ELECTRICAL PANELBOARD

PROPOSED CONDUIT RUN

L3A1

CIRCUIT DESIGNATION
L3A1
CIRCUIT NUMBER
PANEL DESIGNATION

HOME RUN (BUILDING NUMBER PANEL "L3A", CIRCUIT "3,5", ETC.) THE TICK MARKS INDICATE NUMBER OF CONDUCTORS AND ONE NEUTRAL CONDUCTOR. EQUIPMENT GROUND CONDUCTOR IS NOT SHOWN BUT SHALL BE PROVIDED. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE NEUTRAL FOR ALL CIRCUITS SERVED FROM "C" SERIES PANEL FOR COMPUTER TYPE POWER. RUNS WITH NO TICK MARKS SHALL HAVE ONE PHASE CONDUCTOR, ONE NEUTRAL CONDUCTOR AND ONE GROUND CONDUCTOR. REFER TO PANEL SCHEDULES AND RISER DIAGRAMS FOR CONDUCTOR SIZES.

ELECTRICAL SYSTEMS LEGEND

COMMUNICATION OUTLET – (1) RJ45 JACK – DATA
'R' – NEXT TO THE SYMBOL = "RED PHONE" (PROVIDE LABEL)

SD SMOKE DETECTOR, OBSCURATION TYPE, AT CEILING

SWITCH LEGEND

$D SWITCH, DIMMER

$ SWITCH, SINGLE POLE, 20 AMP, 120/277 VOLT

$3 SWITCH, 3 WAY-RED HANDLE FOR EM. CIRCUITS

$T SWITCH, IN-WALL TIMER, SPST

$OS SWITCH, OCCUPANCY SENSING, WALL MOUNTED (DUAL TECHNOLOGY)

OS OCCUPANCY SENSOR, CEILING MOUNTED (DUAL TECHNOLOGY)
# DENOTES OCCUPANCY SETTING TYPE:
- 1 = MANUAL ON, AUTO OFF
- 2 = AUTO ON 100%, AUTO DIM TO 50%
- 3 = AUTO ON, AUTO OFF

ABBREVIATIONS

AB	ABOVE	CL	CENTER LINE	FAAP	FIRE ALARM ANNUNCIATOR PANEL	PL	PILOT LIGHT	BC	BELOW COUNTER	EX	EXISTING
AC	ABOVE COUNTER	CLG	CEILING HEIGHT	FACP	FIRE ALARM CONTROL PANEL	SCP	SECURITY CONTROL PANEL	BKR	BREAKER	EHD	ELECTRIC HAND DRYER
AFF	ABOVE FINISHED FLOOR	CPB	COMMUNICATIONS PULL BOX	FATC	FIRE ALARM TRANSPONDER CABINET	SSTC	SOUND SYSTEM TERMINAL CABINET	C	CONDUIT	EPB	ELECTRICAL PULL BOX
AFG	ARC-FAULT INTERRUPTER	CTR	CONTACTOR	GFI	GROUND FAULT INTERRUPTER	STR	STARTER	CCTV	CLOSED CIRCUIT TELEVISION	EXP	EXPLOSION PROOF
AFI	ABOVE FINISHED GRADE	CTS	CLOSED CIRCUIT TELEVISION SWITCHING EQUIPMENT	GND	GROUND	SEC	SECURITY PANEL	CEDB	CONCRETE ENCASED DUCTBANK	EWC	ELECTRIC WATER COOLER
AIC	AMPERE INTERRUPTING CAPACITY	DSS	DIGITAL SATELLITE SERVICE	HID	HIGH INTENSITY DISCHARGE	T	TOP	CH	COUNTER HEIGHT	EWH	ELECTRIC WATER HEATER
ATM	AUTOMATIC TELLER MACHINE	DTC	DATA TERMINAL CABINET	ICTC	INTERCOM TERMINAL CABINET	TBA	TELEPHONE BACKBOARD "A"	CKT	CIRCUIT		
B	BOTTOM			IT	INFORMATION TECHNOLOGY	TBD	TO BE DETERMINED				

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE CODES, AND LOCAL BUILDING CODES, LATEST EDITIONS.
2. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT TO ENSURE THAT ALL WORK SHALL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
3. THE CONTRACTOR IS DIRECTED TO OBTAIN COPIES OF ALL RELATED PLANS, SPECIFICATIONS, SHOP DRAWINGS AND ADDENDUMS TO COORDINATE THE RELATED WORK AND SCHEDULING.
4. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT.
5. MINIMUM TRADE SIZE FOR HOME RUN CONDUIT (EMT) PERMITTED SHALL BE 3/4 INCH UNLESS NOTED OTHERWISE.
6. ALL CONDUCTOR SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THWN (MINIMUM SIZE SHALL BE #12AWG). CONTRACTOR SHALL ADJUST WIRE AND CONDUIT SIZES IF OTHER INSULATION TYPES ARE USED.
7. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
8. ALL PANELBOARDS, SWITCHES, AND CIRCUIT BREAKERS SHALL BE SQUARE D, EATON, OR APPROVED EQUAL.
9. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
11. ANY EXISTING UTILITIES LOCATED IN THE AREA OF CONSTRUCTION WHICH REQUIRE RELOCATION BY THE OWNER SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF TEN DAYS IN ADVANCE.
12. ALL EMPTY CONDUITS SHALL CONTAIN JET LINE #232 POLYOFIN 200 LB. TEST.
13. ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
14. EQUIPMENT INSTALLED WITHIN CONCEALED SPACES SHALL HAVE REASONABLE ACCESS PANELS PROVIDED NEARBY FOR INSPECTION, TESTING AND SERVICE CONSIDERATIONS.
15. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
16. EXTERIOR BURIED CONDUIT RUNS SHALL BE MINIMUM 24" BELOW FINISHED GRADE. PROVIDE CAUTION TAPE 12" BELOW GRADE.
17. THE CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL MODIFICATIONS TO EXISTING SYSTEMS AND SHALL DELIVER "AS-BUILT" DRAWINGS ON CD-ROM TO THE OWNER UPON COMPLETION OF THE WORK.
18. CABLE RUNS SHALL BE CONTINUOUS AND UNBROKEN/UNSPLICED BETWEEN PULL BOXES. SPLICES SHALL ONLY BE MADE AT SPLICE BOXES LOCATED AT THE LIGHT POLES.
19. THE AIRPORT IS A VERY BUSY FACILITY WITH 7 DAY WEEKLY OPERATIONS. THE CONTRACTOR SHALL CLOSELY COORDINATE ALL WORK WITH THE FACILITY PERSONNEL PRIOR TO ANY WORK ACTIVITIES. CARE SHALL BE TAKEN TO MINIMIZE INTERRUPTION TO FACILITY OPERATIONS AT ALL TIMES.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
2. THE OWNER HAS THE FIRST RIGHT OF REFUSAL FOR ANY REMOVED EXISTING ITEM. COORDINATE WITH THE OWNER & A/E.
3. THE CONTRACTOR SHALL ENSURE THAT THERE IS NO INTERRUPTION OF SERVICES TO EXISTING BUILDINGS DURING CONSTRUCTION. ALL OUTAGES SHALL BE SCHEDULED WITH THE OWNERS REPRESENTATIVE.
4. THE ELECTRICAL PLANS DO NOT INDICATE ALL EXISTING INSTALLATIONS.
5. THE INSTALLER IS RESPONSIBLE FOR ALL FEES, PERMITS AND INSPECTIONS WITHOUT ADDITIONAL CHARGE TO THE OWNER.
6. THESE DRAWINGS WERE DEVELOPED **JULY 2024**. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING A THOROUGH SITE SURVEY AND NOTIFYING THE ENGINEER OR OWNER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
7. THE REUSE OF EXISTING ELECTRICAL COMPONENTS SHALL COMPLY WITH THE **2023** VERSION OF THE NEC.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ELECTRICAL CONDUIT AND WIRES SERVING EQUIPMENT TO BE REMOVED OR RELOCATED.

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NOT FOR CONSTRUCTION

Elizabeth City Regional Airport
Terminal Building
Consolidated Rd
Elizabeth City, NC 27909

MK DATE DESCRIPTION
REVISIONS

ELECTRICAL LEGEND AND NOTES

THE OHMEGA GROUP LLC NO. P-1143 CERTIFICATE OF AUTHORIZATION

OHMEGA
The Ohmega Group, Inc. | Be Brilliant.
Consulting ■ Engineers
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T : 904 807 6512 | WWW.OHMEGAGROUP.COM
NC PE NO. 034060 | NC COA NO. P-1143

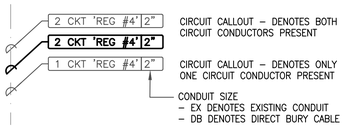
DATE 07/12/24
DRAWN BY JM
CHECK BY MAM
JOB NO. 023-031
SHEET

E-001

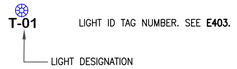
AIRFIELD ELECTRICAL LEGEND

EXISTING		PROPOSED	
⊛	EXISTING L-861T OMNIDIRECTIONAL (360° BLUE) BASE MOUNTED MEDIUM INTENSITY ELEVATED TAXIWAY EDGE LIGHT, WITH ISOLATION TRANSFORMER.	⊛	PROPOSED L-861T(**L**) OMNIDIRECTIONAL (360° BLUE) BASE MOUNTED MEDIUM INTENSITY ELEVATED **LED** TAXIWAY EDGE LIGHT, ON NEW BASE, L-867, CLASS I, SIZE B BASE CAN, 24" DEEP, WITH L-830 ISOLATION TRANSFORMER, 6.6A. SEE LEGEND **NOTE 1**.
		— · ⫽ · —	PROPOSED CABLE (L-824, TYPE C, 5KV, #8 AWG) IN 2" PVC DIRECT BURIED (SLASHES INDICATE QUANTITY OF CABLES), SEE LEGEND **NOTE 2**.
		2W4"	PROPOSED CONCRETE ENCASED ELECTRICAL DUCT. QUANTITY AND SIZE OF CONDUITS AS INDICATED
○	EXISTING EQUIPMENT TO BE REMOVED		

CIRCUIT DESIGNATIONS AND CALLOUTS



LIGHT TAG



LEGEND NOTES

1. PROPOSED ELEVATED TAXIWAY LIGHTS SHALL BE TYPE L-861T(**L**), OMNIDIRECTIONAL BLUE COLUMN MOUNTED ON A L-867B, 24" DEEP BASE CAN WITH A "CORTEN," GALVANIZED/ ENAMEL FINISH, OR APPROVED EQUAL BASE PLATE AND PROPERLY SIZED L-830 ISOLATION TRANSFORMER AND L-823 CONNECTORS. THE OVERALL HEIGHT SHALL BE 14". SEE SHEET **XXX**.
2. PROPOSED CONDUIT SHALL BE 2" SCHEDULE 40 PVC. NUMBER OF HASH MARKS INDICATE NUMBER OF NEW L-824, TYPE C 5KV #8 AWG CABLES INSTALLED IN DUCT. ALL CONDUIT WORK WITHIN EXISTING PAVEMENT SHALL BE DIRECTIONAL BORE. COST OF DIRECTIONAL BORE IS INCIDENTAL TO L-110 PAY ITEM. NO OPEN CUTTING OF EXISTING PAVEMENT IS PERMITTED. ALL 1-WAY CONDUIT INSTALLED UNDER STRUCTURAL PAVEMENT IS CONCRETE ENCASED. ALL OTHER CONDUITS ARE DIRECT BURIED EXCEPT AS NOTED ON PLANS. EXTEND CONCRETE ENCASEMENT 10' BEYOND EDGE OF STRUCTURAL PAVEMENT.

GENERAL ELECTRICAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO RELOCATE, MODIFY AND INSTALL THE AIRFIELD ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
2. NEW MATERIALS SHALL BE U.L. APPROVED.
3. THE DUCT BANKS AND CONDUITS BETWEEN DEMOLISHED MANHOLES, HANDHOLES, BASE CANS ETC. SHALL BE REMOVED EXCEPT WHERE LOCATED UNDER EXISTING PAVEMENT TO REMAIN OR WHERE THE DUCT OR CONDUIT IS TO BE EXTENDED IN THE NEW WORK. ALL REMOVED FIXTURES, TRANSFORMERS, ETC. SHALL BE TURNED OVER TO THE OWNER'S MAINTENANCE DEPARTMENT. ALL REMOVED CABLES, DUCT, BASE CANS, CONCRETE PADS, MANHOLES, ETC. SHALL BE PROPERLY AND LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
4. ALL EXCAVATION WITHIN 5 FEET OF ANY UNDERGROUND UTILITY SHALL BE PERFORMED BY HAND EXCAVATION METHODS. EXISTING DIRECT BURIED CABLES TO REMAIN SHALL BE ENCLOSED IN SPLIT DUCT AND ENCASED IN A 3" ENVELOPE OF P-610 CONCRETE UNDER THE FOLLOWING CONDITIONS:
   4.1. WHEN WITHIN 20 FEET OF EXCAVATION, TRENCHING, ETC.
   4.2. WHEN PAVEMENT WIDENING OR EXTENSIONS WILL BE ROUTED OVER THE EXISTING CABLE. THE LOC-DUCT WILL EXTEND 20 FEET BEYOND THE NEW EDGE OF THE PAVEMENT.
   4.3. WHEN ENCOUNTERED DURING CONSTRUCTION.
   4.4. WHEN SUBJECT TO DAMAGE, IN THE OPINION OF THE ENGINEER, FROM CONSTRUCTION ACTIVITIES. AN END OF DUCT MARKER SHALL BE INSTALLED ABOVE EACH END OF THE DUCT.
5. RUNWAY AND TAXIWAY EDGE LIGHTS SHALL BE INSTALLED 10 FEET FROM THE THEORETICAL EDGE OF THE PAVEMENT OR AS OTHERWISE INDICATED. ALL STRAIGHT SECTIONS OF RUNWAY OR TAXIWAY EDGE LIGHTS SHALL BE ALIGNED TO DEVELOP A CONTINUOUS "IN LINE" APPEARANCE OF THE LIGHTS WHEN VIEWED AT GROUND LEVEL FROM ONE END.
6. ALL WORK SHOWN TO BE DEMOLISHED ON THE DRAWINGS IS BASED ON FIELD OBSERVATIONS OF THE ACTUAL EXISTING CONDITIONS AND ON EXISTING "AS-BUILT" DRAWINGS OF THE AREAS AFFECTED. THEY ARE THEREFORE CONSIDERED TO BE SCHEMATIC. IT IS THE INTENT OF THE DEMOLITION DRAWINGS THAT ALL EQUIPMENT, DEVICES, FIXTURES, WIRING MATERIALS, SYSTEM AND APPURTENANCES, ETC. WHICH ARE NO LONGER REQUIRED AS A RESULT OF THE PROJECT TO BE REMOVED. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL REMOVED ITEMS.
7. ELECTRICAL DEMOLITION WORK SHALL BE LIMITED TO THE AREAS AND SCHEDULES INDICATED IN THE APPROVED PHASING PLAN.
8. ALL GROUND RODS AND OTHER UNDERGROUND GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED OR APPROVED EQUIVALENT. EXOTHERMICALLY WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
9. REFER TO CIVIL DRAWINGS FOR ACTUAL JOINT LAYOUTS, DRAINAGE, PAVING DETAILS, ETC. CIVIL DATA IS SHOWN ON ELECTRICAL DRAWINGS FOR REFERENCE ONLY.
10. IN NEW PAVEMENT ALL CONDUITS, DUCTBANKS, COUNTERPOISE, AND GROUNDING CONDUCTORS, ETC. SHALL BE INSTALLED PRIOR TO PLACEMENT ON THE FINAL LIFT OF PAVEMENT.
11. THE CONTRACTOR SHALL HAVE A CABLE TRACER AVAILABLE TO LOCATE THE EXISTING CABLES AND HAND DIGGING SHALL BE UNDERTAKEN WITHIN FIVE (5) FEET OF ANY KNOWN OR SUSPECTED EXISTING UNDERGROUND CABLES AND UTILITIES WHICH ARE NOT TO BE DISTURBED.
12. SHOULD ANY RUNWAY OR TAXIWAY SYSTEM BE INOPERABLE DUE TO THE CONTRACTOR'S WORK, AND THE CONTRACTOR IS UNABLE TO RESTORE THE SYSTEM BY NIGHTFALL WITH PERMANENT REPAIRS, THE CONTRACTOR SHALL AT HIS OWN EXPENSE TAKE NECESSARY MEASURES TO INSURE OPERATIONS OF THE SYSTEM DURING NIGHT HOURS. TEMPORARY WORK SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL. IF THE SYSTEM CANNOT BE RESTORED BY NIGHTFALL, THE CONTRACTOR SHALL INSTALL A TEMPORARY SYSTEM OF BATTERY OPERATED LIGHTS WITH THE APPROPRIATE COLORED LENSES FOR BOTH.
13. IF A LIGHT CAN IS INSTALLED INCORRECTLY, THE DUCT/CONDUIT IS PLUGGED/BROKEN, OR THE CONCRETE JOINTS ARE INSTALLED INCORRECTLY, PAVEMENT ON BOTH SIDES OF THE LIGHT CAN AND THE LIGHT SHALL BE REMOVED AND REPLACED TO JOINT LINE AT THE CONTRACTOR'S EXPENSE.
14. ALL DUCT LOCATED IN OR UNDER THE PAVEMENT, AND WITHIN 5 FEET OF THE EDGE OF THE SHOULDER PAVEMENT SHALL BE CONCRETE ENCASED DUCT. ALL OTHER 2" DUCT (L-110), SHALL BE DIRECT BURIED.
15. DIMENSIONS BETWEEN LIGHTS SHOWN ON A RADIUS ARE CURVE LENGTHS.
16. ITEMS SHOWN IN SCREEN (GHOST) ARE EXISTING ITEMS AND ITEMS SHOWN IN SOLID (BOLD) ARE NEW AND TO BE PROVIDED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED.
17. PROJECT PAY ITEMS: THE PROJECT PAY ITEMS ARE PROVIDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL WORK TO BE IDENTIFIED WITH A SPECIFIC PAY ITEMS IS TO BE CONSIDERED REQUIRED WORK TO COMPETE THE PROJECT AND IS TO BE SUBSIDIARY TO THE COST OF PROJECT PAY ITEMS PROVIDED.
18. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
19. HIGH VOLTAGE INSULATION RESISTANCE TEST

    SUBJECT EACH SERIES LIGHTING CIRCUIT TO A HIGH VOLTAGE INSULATION RESISTANCE TEST BY MEASUREMENT OF THE INSULATION LEAKAGE CURRENT. PROVIDE A SUITABLE HIGH VOLTAGE TEST INSTRUMENT WHICH HAS A STEADY, FILTERED DIRECT CURRENT OUTPUT VOLTAGE AND LIMITED CURRENT. HIGH VOLTAGE TESTER SHALL INCLUDE AN ACCURATE VOLTMETER AND MICROAMMETER FOR READING VOLTAGE APPLIED TO THE CIRCUIT AND RESULTANT INSULATION LEAKAGE CURRENT. DO NOT APPLY VOLTAGES IN EXCESS OF TEST VALUES SPECIFIED BELOW.

    19.1. TEST PROCEDURE: DISCONNECT BOTH LEADS FROM REGULATOR OUTPUT TERMINALS AND SUPPORT SO THAT AIR GAPS OF SEVERAL INCHES EXIST BETWEEN BARE CONDUCTORS AND GROUND. CLEAN AND DRY CABLE SHEATHS, FOR DISTANCE OF ONE FOOT FROM ENDS OF CABLES AND EXPOSED INSULATION AT ENDS OF CABLES. CONNECT ENDS OF BOTH CONDUCTORS OF THE CIRCUIT TOGETHER AND TO HIGH-VOLTAGE TERMINALS OF TEST EQUIPMENT, AND APPLY TEST VOLTAGE SPECIFIED IN THE FOLLOWING TABULATION BETWEEN CONDUCTORS AND GROUND FOR A PERIOD OF 5 MINUTES.

TEST VOLTAGE, DC	FIRST TEST ON EXISTING CIRCUITS	TEST ON NEW CIRCUITS
SERIES LIGHTING CIRCUITS		
HIGH INTENSITY SERIES LIGHTING CIRCUITS (5000-VOLT LEADS, 500- AND 200-WATT TRANSFORMERS)	9000	5000
MEDIUM INTENSITY SERIES LIGHTING CIRCUITS (5000-VOLT LEADS, 30/45-WATT TRANSFORMERS)	6000	3000
600-VOLT CIRCUITS	1800	800

    WHEN ADDITIONS ARE MADE TO EXISTING CIRCUITS, TEST ONLY NEW SECTIONS IN ACCORDANCE WITH "FIRST TEST ON NEW CIRCUITS" IN TABLE ABOVE. (TO ENSURE RELIABLE OPERATION, TEST COMPLETE CIRCUIT AT REDUCED VOLTAGES INDICATED ABOVE.)

    19.2. LEAKAGE CURRENT: MEASURE AND RECORD INSULATION LEAKAGE CURRENT IN MICROAMPERES FOR EACH CIRCUIT FOR EACH MINUTE APPLICATION OF TEST VOLTAGE. DO NOT EXCEED THE VALUE OF THE INSULATION LEAKAGE CURRENT CALCULATED ON THE BASIS OF THE FOLLOWING LEAKAGE CURRENT ALLOWANCES FOR CABLE AND CONNECTED EQUIPMENT FOR EACH CIRCUIT:

    19.2.1.1. 3 MICROAMPERES FOR EACH 1000 FEET OF CABLE.
    19.2.1.2. 2 MICROAMPERES FOR EACH 200-WATT AND EACH 500-WATT 5000-VOLT SERIES TRANSFORMER.
    19.2.1.3. 2 MICROAMPERES FOR EACH 30/45-WATT 5000-VOLT SPACING SERIES TRANSFORMER.
    19.2.1.4. 2 MICROAMPERES FOR EACH 10/15-WATT 5000-VOLT SPACING SERIES TRANSFORMER.

    NOTE:
    THE ABOVE VALUES INCLUDE ALLOWANCES FOR THE NORMAL NUMBER OF CONNECTORS AND SPLICES. IF MEASURED VALUE OF INSULATION LEAKAGE CURRENT EXCEEDS CALCULATED VALUE, SECTIONALIZE THE CIRCUIT AND REPEAT SPECIFIED TEST FOR EACH SECTION. LOCATE DEFECTIVE COMPONENTS AND REPAIR OR REPLACE UNTIL REPEATED TESTS INDICATE AN ACCEPTABLE VALUE OF LEAKAGE CURRENT FOR THE ENTIRE CIRCUIT.

20. OPERATING TEST

    UPON COMPLETION OF TESTS, SHOW BY DEMONSTRATION IN SERVICE THAT CIRCUITS, CONTROL EQUIPMENT, AND LIGHTS COVERED BY THE CONTRACT ARE IN GOOD OPERATING CONDITION. OPERATE EACH SWITCH IN THE LIGHTING PANELS SO THAT EACH SWITCH POSITION IS ENGAGED AT LEAST TWICE. DURING THIS PROCESS, OBSERVE LIGHTS AND ASSOCIATED EQUIPMENT TO DETERMINE THAT EACH SWITCH CONTROLS PROPERLY CORRESPONDING CIRCUIT. PROVIDE TELEPHONE OR RADIO COMMUNICATION BETWEEN THE OPERATOR AND THE OBSERVERS. REPEAT TESTS FROM THE ALTERNATE CONTROL STATION, FROM THE REMOTE CONTROL POINTS, AND AGAIN FROM THE LOCAL CONTROL SWITCHES ON THE REGULATORS. TEST EACH LIGHTING CIRCUIT BY OPERATING THE LAMPS AT MAXIMUM BRIGHTNESS FOR NOT LESS THAN 30 MINUTES. VISUALLY EXAMINE AT THE BEGINNING AND AT THE END OF THIS TEST TO ENSURE THAT THE CORRECT NUMBER OF LIGHTS ARE BURNING AT FULL BRIGHTNESS. CONDUCT ONE DAY AND ONE NIGHT OPERATING TEST FOR THE ENGINEER.

NC 811.ORG

PRIOR TO INITIATION OF ANY CONSTRUCTION IN THE FIELD, THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE (RETURN RECEIPT REQUESTED) TO EACH UTILITY COMPANY. THE CONTRACTOR SHALL CONTACT "NORTH CAROLINA 811" (WWW.NC811.ORG, 811 OR 1-800-632-4949) TO HAVE ALL EXCAVATIONS IN THE AREA SHOWN ON THIS SHEET. SUCH UTILITIES ARE KNOWN TO EXIST IN THE AREA, BUT THEIR LOCATIONS ARE UNKNOWN AND THEY ARE NOT SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATIONS, AVOIDANCE, AND PROTECTION OF UNDERGROUND UTILITIES.

ABBREVIATIONS

AC/ACP – ASPHALTIC CONCRETE PAVEMENT
AIP – AIRPORT IMPROVEMENT PROGRAM
AOA – AIRCRAFT OPERATIONS AREA
AWG – AMERICAN WIRE GAUGE
B – BASELINE
C – CENTERLINE
C – CONDUIT
DB – DIRECT BURIED
CEDB – CONCRETE ENCASED DUCTBANK
CMP – CORREGATED METAL PIPE
CONC – CONCRETE
CSO – CONTRACTOR SECURITY OFFICER
DIA – DIAMETER
DWG – DRAWING
E – EASTING
EG – EXISTING GROUND
EL/ELEV – ELEVATION
EOP – EDGE OF PAVEMENT
EQ – EQUAL
ERSA – EXTENDED RUNWAY SAFETY AREA
EX/EXST/EXIST – EXISTING
FAA – FEDERAL AVIATION ADMINISTRATION
FOD – FOREIGN OBJECT DEBRIS
G – GREEN
GNE – GROUNDWATER NOT ENCOUNTERED
GS – GLIDE SCOPE
I/C – NUMBER OF CONDUCTORS/CONDUCTOR
IE/INV – INVERT ELEVATION / INVERT
ILS – INSTRUMENT LANDING SYSTEM
IP – INTERSECTION POINT
JB – JUNCTION BOX
JCP– JUNCTION CAN PLAZA
kV – KILOVOLT
LEO – LAW ENFORCEMENT OFFICER
LHA – LIGHT HOUSING ASSEMBLY (PAPI)
LF – LINEAR FEET
LT – LEFT
MAX – MAXIMUM
MIN – MINIMUM
N – NORTHING
NAD – NORTH AMERICAN DATUM
NGVD – NATIONAL GEODETIC VERTICAL DATUM
NOTAM – NOTICE TO AIRMEN
NTS – NOT TO SCALE
OC – ON CENTER
OFA – OBJECT FREE AREA
PG – PROPOSED GRADE
PT – POINT OF TANGENCY
PVC – POLYVINYL CHLORIDE PIPE
PVI – POINT OF VERTICAL INTERSECTION
R– RED
REG – REGULATOR
RW – RUNWAY
RCP – REINFORCED CONCRETE PIPE
RGL – RUNWAY GUARD LIGHT
RPZ – RUNWAY PROTECTION ZONE
RSA – RUNWAY SAFETY AREA
RT – RIGHT
S – STRAIGHT
SCH – SCHEDULE
SGN – SIGN
SIDA – SECURITY IDENTIFICATION DISPLAY AREA
SPT – STANDARD PENETRATION TEST
SS – STAINLESS STEEL
STA – STATION
STD – STANDARD
TL – TAXILANE
TTL – TOTAL
TW – TAXIWAY
TDZ – TOUCHDOWN ZONE
TSA – TAXIWAY SAFETY AREA
TYP – TYPICAL
UON – UNLESS OTHERWISE NOTED

THE OHMEGA GROUP LLC NO. P-1143 CERTIFICATE OF AUTHORIZATION NORTH CAROLINA

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ELIZABETH CITY REGIONAL AIRPORT

NOT FOR CONSTRUCTION

Elizabeth City Regional Airport
Terminal Building
Consolidated Rd
Elizabeth City, NC 27909

MK	DATE	DESCRIPTION

REVISIONS

AIRFIELD ELECTRICAL LEGENDS AND NOTES

DATE	07/12/24
DRAWN BY	JM
CHECK BY	MAM
JOB NO.	023-031
SHEET	

E-002

A. GENERAL

1. THE ELECTRICAL INSTALLATION, AS A MINIMUM, SHALL MEET ALL FAA STANDARDS, THE NATIONAL ELECTRICAL CODE AND LOCAL REGULATIONS.

2. ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY THE CONTRACTOR (INCLUDING FAA APPROVED EQUIPMENT) SHALL BE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND THE REMAINDER OF THE NEW/EXISTING SYSTEM. ANY NONCOMPATIBLE COMPONENTS FURNISHED BY THIS CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER WITH A SIMILAR UNIT, APPROVED BY THE ENGINEER/ RESIDENT PROJECT REPRESENTATIVE (RPR) (DIFFERENT MODEL OR DIFFERENT MANUFACTURER) THAT IS COMPATIBLE WITH THE REMAINDER OF THE AIRPORT LIGHTING SYSTEM.

3. IN CASE THE CONTRACTOR SELECTS TO FURNISH AND INSTALL AIRPORT LIGHTING EQUIPMENT REQUIRING ADDITIONAL WIRING, TRANSFORMERS, ADAPTERS, MOUNTINGS, ETC., TO THOSE SHOWN ON THE DRAWINGS AND/OR LISTED IN THE SPECIFICATIONS, ANY COST FOR THESE ITEMS SHALL BE INCIDENTAL TO THE EQUIPMENT COST. CHANGES SHALL BE APPROVED BY THE ENGINEER/ RPR PRIOR TO ORDERING.

4. THE CONTRACTOR INSTALLED EQUIPMENT (INCLUDING FAA APPROVED) SHALL NOT GENERATE ANY ELECTROMAGNETIC INTERFERENCE IN THE EXISTING AND/OR NEW COMMUNICATIONS, WEATHER, AIR NAVIGATION, AND AIR TRAFFIC CONTROL EQUIPMENT. ANY EQUIPMENT GENERATING SUCH INTERFERENCE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST WITH EQUIPMENT MEETING THE APPLICABLE SPECIFICATIONS AND NOT GENERATING ANY INTERFERENCE.

5. WHEN A SPECIFIC TYPE, STYLE, CLASS, ETC. OF FAA APPROVED EQUIPMENT IS SPECIFIED ONLY THAT TYPE, STYLE, CLASS, ETC. WILL BE ACCEPTABLE, EVEN THOUGH EQUIPMENT OF OTHER TYPES, STYLES, CLASS, ETC. MAY BE FAA APPROVED.

6. ANY AND ALL INSTRUCTIONS FROM THE ENGINEER/ RPR TO THE CONTRACTOR REGARDING CHANGES IN, OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS SHALL BE IN WRITING WITH COPIES SENT TO THE AIRPORT AND THE FAA FIELD OFFICE (ADO/AFO). THE CONTRACTOR SHALL NOT ACCEPT ANY VERBAL INSTRUCTIONS FROM THE ENGINEER/ RPR OR OWNER REGARDING ANY CHANGES FROM THE PLANS AND SPECIFICATIONS.

7. A MINIMUM OF FIVE (5) COPIES OF INSTRUCTION BOOK(S) SHALL BE SUPPLIED WITH EACH DIFFERENT TYPE OF EQUIPMENT. THE BOOKS DESCRIBING A MORE SOPHISTICATED TYPE OF EQUIPMENT, SUCH AS REGULATORS, PAPI, REIL, ETC. AS A MINIMUM SHALL CONTAIN THE FOLLOWING:
   - 7.1. DETAILED DESCRIPTION OF THE OVERALL EQUIPMENT AND ITS INDIVIDUAL COMPONENTS.
   - 7.2. THEORY OF OPERATION INCLUDING THE FUNCTION OF EACH COMPONENT.
   - 7.3. INSTALLATION INSTRUCTIONS.
   - 7.4. START–UP INSTRUCTIONS.
   - 7.5. PREVENTATIVE MAINTENANCE REQUIREMENTS.
   - 7.6. CHART FOR TROUBLESHOOTING.
   - 7.7. COMPLETE POWER AND CONTROL DETAILED WIRING DIAGRAM(S), SHOWING EACH CONDUCTOR/CONNECTION/COMPONENT–"BLACK" BOXES ARE NOT ACCEPTABLE. THE DIAGRAM OR THE NARRATIVE SHALL SHOW VOLTAGES/CURRENTS/WAVE SHAPES AT STRATEGIC LOCATIONS TO BE USED WHEN CHECKING AND/OR TROUBLE SHOOTING THE EQUIPMENT. WHEN THE EQUIPMENT HAS SEVERAL MODES OF OPERATION, SUCH AS SEVERAL BRIGHTNESS STEPS, THESE PARAMETERS SHALL BE INDICATED FOR ALL THE DIFFERENT MODES.
   - 7.8. PARTS LIST WHICH WILL INCLUDE ALL MAJOR AND MINOR COMPONENTS, SUCH AS RESISTORS, DIODES, ETC. IT SHALL INCLUDE A COMPLETE NOMENCLATURE OF EACH COMPONENT AND, IF APPLICABLE, THE NAME OF ITS MANUFACTURER AND THE CATALOG NUMBER.
   - 7.9. SAFETY INSTRUCTIONS.

8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS.

9. ALL MATERIALS SCHEDULED FOR REMOVAL SUCH AS EXISTING RUNWAY AND TAXIWAY LIGHTS WHICH ARE DEEMED SALVAGABLE BY THE AIRPORT SHALL BE DELIVERED TO THE LOCATION ON AIRPORT PROPERTY AS INDICATED BY THE AIRPORT. ALL NON–SALVAGABLE MATERIALS REMOVED SUCH AS CONCRETE FOUNDATIONS, CONDUIT, CONDUCTORS, ETC. SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. ALL MATERIALS SHALL BE APPROVED BY THE AIRPORT.

10. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE AIRPORT, FEDERAL AVIATION ADMINISTRATION (FAA) AND THE ENGINEER PRIOR TO AND DURING ALL CONSTRUCTION TO ENSURE THAT ALL ELECTRICAL CIRCUITS AND FACILITIES HAVE BEEN LOCATED, FLAGGED AND ACCOUNTED FOR AND THAT ALL NECESSARY CIRCUITS HAVE BEEN DETERMINED PRIOR TO INITIATING CONSTRUCTION IN ANY LOCATIONS.

11. DEWATERING FOR THE INSTALLATION OF MANHOLES AND/OR DUCTBANKS IS INCIDENTAL TO THE RESPECTIVE PAY ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR AND OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEWATERING.

12. THE AIRPORT "LOCK/TAG/TRY" PROCEDURE SHALL BE COMPLIED WITH BY THE CONTRACTOR. THE AIRPORT WILL PROVIDE THE CONTRACTOR FOR THIS SAFETY PROCEDURE.

13. AIRFIELD SIGNS PROVIDING DIRECTIONS TO CLOSED AREAS SHALL BE COVERED. ALL AREAS CLOSED TO AIRCRAFT SHALL NOT BE LIGHTED. ADEQUATE LIGHTING IN THE OPINION OF THE ENGINEER SHALL BE PROVIDED TO DELINEATE THE ACTIVE AND CLOSED AREAS OF THE AOA.

14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THAT ALL AIRFIELD LIGHTING CIRCUITS, EXCEPT THOSE THAT ARE SERVING CLOSED TAXIWAYS OR RUNWAYS, ARE COMPLETELY OPERATIONAL, BY 4:00 PM EACH DAY THAT WORK IS PERFORMED USING THE TOWER CONTROLS. THE OPERATION SHALL BE DEMONSTRATED BY THE CONTRACTOR EACH DAY AND SHALL BE VERIFIED WITH THE ENGINEER/ RPR BEFORE LEAVING THE SITE.

B. POWER AND CONTROL

1. STENCIL THE FUSE OR FUSE LINK AMPERE RATING. WHERE THE EQUIPMENT DOES NOT HAVE SUFFICIENT STENCILING AREA, THE STENCILING MUST BE DONE ON THE WALL NEXT TO THE UNIT. THE LETTERS MUST BE ONE INCH(25 MM) HIGH AND PAINTED IN WHITE OR BLACK PAINT TO PROVIDE THE HIGHEST CONTRAST WITH THE WITH ONE INCH (25 MM) WHITE (BLACK BACKGROUND) OR BLACK (WHITE BACKGROUND) CHARACTERS. ALL MARKINGS MUST BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT. LEGEND PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELBOARDS, JUNCTION BOXES, REGULATORS, POWER DISTRIBUTION EQUIPMENT, CONTROL PANELS AND ANY OTHER ITEM BY THE ENGINEER. LEGEND PLATES SHALL BE WEATHERPROOF AND ABRASION RESISTANT PHENOLIC MATERIALS. LETTERING SHALL BE BLACK ON WHITE BACKGROUND. LEGEND PLATES SHALL BE INSTALLED USING DOUBLE SIDED TAPE OR ADHESIVE WITH PEAL OFF BACKING.

2. COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. BLACK AND RED SHALL BE USED FOR SINGLE–PHASE, THREE WIRE RED AND BLUE SHALL BE USED FOR THREE–PHASE SYSTEMS. NEUTRAL CONDUCTORS, SIZE NO. 6 AWG OR SMALLER, SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS LARGER THAN NO. 6 AWG SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER OR BY THE USE OF WHITE TAPE AT ITS TERMINATION AND INSIDE ACCESSIBLE WIREWAYS.

3. ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE EXTENDED TO THE POINT OF UTILIZATION.

4. IN CONTROL WIRING, THE SAME COLOR SHALL BE USED THROUGHOUT THE SYSTEM FOR THE SAME FUNCTION, SUCH AS 10%, 30%, 100% BRIGHTNESS CONTROL, ETC.

5. ALL POWER AND CONTROL CIRCUIT CONDUCTORS SHALL BE COPPER; ALUMINUM SHALL NOT BE ACCEPTED. THIS INCLUDES WIRE, CABLE, BUSSES, TERMINALS, SWITCH/PANEL COMPONENTS, ETC.

6. LOW VOLTAGE (600 V.) AND HIGH VOLTAGE (5000 V.) CONDUCTORS SHALL BE INSTALLED IN SEPARATE WIREWAYS.

7. NEATLY LACE WIRING IN DISTRIBUTION PANELS, WIREWAYS, SWITCHES AND JUNCTION/PULL BOXES.

8. THE MINIMUM SIZE OF PULL/JUNCTION BOXES, REGARDLESS OF THE QUANTITY AND THE SIZE OF THE CONDUCTORS SHOWN, AS FOLLOWS:
   - 8.1. IN STRAIGHT PULLS THE LENGTH OF THE BOX SHALL NOT BE LESS THAN EIGHT TIMES THE TRADE DIAMETER OF THE LARGER CONDUIT. THE TOTAL AREA (INCLUDING THE CONDUIT CROSS–SECTIONAL AREA) OF A BOX END SHALL BE AT LEAST 3 TIMES GREATER THAN THE TOTAL TRADE CROSS–SECTIONAL AREA OF THE CONDUITS TERMINATING AT THE END.
   - 8.2. IN ANGLE OR U PULLS THE DISTANCE BETWEEN EACH CONDUIT ENTRY INSIDE THE BOX AND THE OPPOSITE WALL OF THE BOX SHALL NOT BE LESS THAN SIX TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT. THIS DISTANCE SHALL BE INCREASED FOR ADDITIONAL ENTRIES BY THE AMOUNT OF THE SUM OF THE DIAMETERS OF ALL OTHER CONDUIT ENTRIES ON THE SAME WALL OF THE BOX. THE DISTANCE BETWEEN CONDUIT ENTRIES ENCLOSING THE SAME CONDUCTOR SHALL NOT BE LESS THAN SIX TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT.

9. A RUN OF CONDUIT BETWEEN TERMINATIONS AT EQUIPMENT ENCLOSURES, SQUARE DUCTS AND PULL/JUNCTION BOXES, SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL), INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE TERMINATIONS. CAST, CONDULET TYPE OUTLETS SHALL NOT BE TREATED AS PULL/JUNCTION BOXES.

10. EQUIPMENT CABINETS SHALL NOT BE USED AS PULL/JUNCTION BOXES. ONLY WIRING TERMINATING AT THE EQUIPMENT SHALL BE BROUGHT INTO THESE ENCLOSURES.

11. SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES, DUCTS EQUIPPED WITH REMOVABLE COVERS, AND AT EASILY ACCESSIBLE LOCATIONS.

12. CIRCUIT BREAKERS IN POWER DISTRIBUTION PANEL(S) SHALL BE THERMAL–MAGNETIC, MOLDED CASE, PERMANENT TRIP WITH 100 AMPERE, MINIMUM, FRAME.

13. DUAL LUGS SHALL BE USED WHERE TWO WIRES, SIZE NO.6 OR LARGER, ARE TO BE CONNECTED TO THE SAME TERMINAL.

14. RIGID STEEL CONDUIT SHALL BE USED THROUGHOUT THE INSTALLATION UNLESS OTHERWISE SPECIFIED. THE MINIMUM TRADE SIZE SHALL BE 3/4 INCH.

15. UNLESS OTHERWISE SHOWN ALL EXPOSED CONDUITS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE LINES OF THE STRUCTURE.

16. USE CONDUIT BUSHINGS AT EACH CONDUIT TERMINATION. WHERE NO. 4 AWG OR LARGER UNGROUNDED WIRE IS INSTALLED, USE INSULATED BUSHINGS.

17. USE DOUBLE LOCK NUTS AT EACH CONDUIT TERMINATION.

18. WRAP ALL PRIMARY AND SECONDARY POWER TRANSFORMER CONNECTIONS WITH SUFFICIENT LAYERS OF INSULATING TAPE AND COVER WITH INSULATING VARNISH FOR FULL VALUE OF CABLE INSULATION VOLTAGE.

19. UNLESS OTHERWISE NOTED, ALL INDOOR SINGLE CONDUCTOR CONTROL WIRING SHALL BE NO. 12 AWG. (MIN.).

20. BOTH ENDS OF EACH CONTROL CONDUCTOR SHALL BE TERMINATED AT A TERMINAL BLOCK. THE TERMINAL BLOCKS SHALL BE OF PROPER RATING AND SIZE FOR THE FUNCTION INTENDED AND THEY SHALL BE LOCATED IN EQUIPMENT ENCLOSURES OR SPECIAL TERMINAL CABINETS.

21. ALL CONTROL CONDUCTOR TERMINATIONS SHALL BE OF THE OPEN–EYE CONNECTOR/SCREW TYPE. SOLDERED, CLOSED–EYE TERMINATIONS, OR TERMINATIONS WITHOUT CONNECTORS ARE NOT ACCEPTABLE.

22. IN TERMINAL BLOCK CABINETS THE MINIMUM SPACING BETWEEN PARALLEL TERMINAL BLOCKS SHALL BE 6 INCHES. THE MINIMUM SPACING BETWEEN TERMINAL BLOCK SIDES/ENDS AND CABINET SIDES/BOTTOM/TOP SHALL BE 5 INCHES. THE MINIMUM SPACING WILL BE INCREASED AS REQUIRED BY THE NUMBER OF CONDUCTORS. ADDITIONAL SPACING SHALL BE PROVIDED AT CONDUCTOR ENTRANCES.

23. BOTH ENDS OF ALL CONTROL CONDUCTORS SHALL BE IDENTIFIED AS TO THE CIRCUIT, TERMINAL BLOCK, AND TERMINAL NUMBER. ONLY STICK–ON LABELS SHALL BE USED.

24. A SEPARATE AND CONTINUOUS NEUTRAL CONDUCTOR SHALL BE INSTALLED AND CONNECTED FOR EACH BREAKER CIRCUIT IN THE POWER PANEL(S) FROM THE NEUTRAL BAR TO EACH POWER/CONTROL CIRCUIT.

25. THE FOLLOWING SHALL APPLY TO RELAY/CONTACTOR PANELS/ENCLOSURES:
   - 25.1. ALL COMPONENTS SHALL BE MOUNTED IN DUST PROOF ENCLOSURE(S) WITH VERTICALLY HINGED COVERS.
   - 25.2. THE ENCLOSURE(S) SHALL HAVE AMPLE SPACE FOR THE CIRCUIT COMPONENTS, TERMINAL BLOCKS, AND INCOMING AND INTERNAL WIRING.
   - 25.3. ALL INCOMING/OUTGOING WIRING SHALL BE TERMINATED AT TERMINAL BLOCKS.
   - 25.4. EACH TERMINAL ON TERMINAL BLOCKS AND ON CIRCUIT COMPONENTS SHALL BE CLEARLY IDENTIFIED.
   - 25.5. ALL CONTROL CONDUCTOR TERMINATIONS SHALL BE OF THE OPEN–EYE CONNECTOR/SCREW TYPE. SOLDERED, CLOSED–EYE TERMINATIONS, OR TERMINATIONS WITHOUT CONNECTORS ARE NOT ACCEPTABLE.
   - 25.6. WHEN THE ENCLOSURE COVER IS OPENED, ALL CIRCUIT COMPONENTS, WIRING, AND TERMINALS SHALL BE EXPOSED AND ACCESSIBLE WITHOUT REMOVAL OF ANY PANELS, COVERS, ETC., EXCEPT THOSE COVERING HIGH VOLTAGE COMPONENTS. CIRCUIT COMPONENT OR TERMINAL BLOCK.
   - 25.7. EACH CIRCUIT COMPONENT SHALL BE CLEARLY IDENTIFIED INDICATING ITS CORRESPONDING NUMBER SHOWN IN THE DRAWINGS AND ITS FUNCTION.
   - 25.8. A COMPLETE WIRING DIAGRAM (NOT A SCHEMATIC DIAGRAM) SHALL BE MOUNTED ON THE INSIDE OF THE COVER. THE DIAGRAM SHALL REPRESENT EACH CONDUCTOR BY A SEPARATE LINE.
   - 25.9. MINIMUM WIRE SIZE SHALL BE NO.12 AWG UNLESS OTHERWISE NOTED.

C. FIELD LIGHTING

1. UNLESS OTHERWISE NOTED, ALL UNDERGROUND FIELD POWER MULTIPLE AND SERIES CIRCUIT CONDUCTORS WHETHER DIRECT BURIED OR IN DUCT/CONDUIT SHALL BE FAA APPROVED L–824 TYPE. INSULATION VOLTAGE AND SIZE SHALL BE AS SPECIFIED. ALL SERIES CIRCUIT CABLES SHALL BE #8 AWG RATED AT 5KV (L–824–C), ALL CIRCUITS SHALL BE MEGGERED AFTER INSTALLATION.

2. NO COMPONENTS OF PRIMARY CIRCUIT SUCH AS CABLE, CONNECTORS AND TRANSFORMERS SHALL BE BROUGHT ABOVE GROUND AT EDGE LIGHTS, SIGNS, REIL, PAPI, ETC. THIS PRACTICE MAY BE APPROVED FOR TEMPORARY PURPOSES ONLY.

3. THERE SHALL BE NO EXPOSED POWER/CONTROL CABLES BETWEEN THE POINT WHERE THEY LEAVE THE UNDERGROUND (DIRECT BURIED OR L–867 BASES) AND WHERE THEY ENTER THE EQUIPMENT (SUCH AS TAXIWAY SIGNS, PAPI, REIL, ETC.) ENCLOSURES. THESE CABLES SHALL BE ENCLOSED IN RIGID CONDUIT OR IN FLEXIBLE, WATER–TIGHT CONDUIT WITH BREAKABLE COUPLING(S) AT THE GRADE OR THE HOUSING COVER, AS SHOWN IN APPLICABLE DETAILS.

4. THE JOINTS OF THE L–823 PRIMARY CONNECTORS SHALL BE WRAPPED WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE–HALF LAPPED, EXTENDING AT LEAST 1–1/2 INCHES ON EACH SIDE OF THE JOINT. SEE DETAILS FOR SPECIFIC REQUIREMENTS.

5. THE ID OF THE PRIMARY L–823 FIELD ATTACHED CONNECTORS SHALL MATCH THE CABLE OD TO PROVIDE A WATERTIGHT CABLE ENTRANCE.

6. HEAT SHRINK WITH INTERNAL ADHESIVE SHALL BE INSTALLED OVER L–823 ASSEMBLY, AS DETAILED IN THE PLANS.

7. L–823 TYPE II, TWO–CONDUCTOR SECONDARY CONNECTORS SHALL BE CLASS "A" (FACTORY MOLDED).

8. THERE SHALL BE NO SPLICES IN THE SECONDARY CABLE(S) WITHIN THE STEMS OF A RUNWAY/TAXIWAY EDGE/THRESHOLD LIGHTING FIXTURES AND THE WIREWAYS LEADING TO TAXIWAY SIGNS AND PAPI/REIL EQUIPMENT.

9. ELECTRICAL INSULATING GREASE SHALL BE APPLIED WITHIN THE L–823, SECONDARY, TWO CONDUCTOR CONNECTORS TO PREVENT WATER ENTRANCE. THESE CONNECTORS SHALL NOT BE TAPED.

10. A SLACK OF 3 FEET, MINIMUM, SHALL BE PROVIDED IN THE PRIMARY CABLE AT EACH TRANSFORMER/CONNECTOR TERMINATION. PAYMENT SHALL BE PER LINEAR FOOT OF CABLE INSTALLED IN EACH BASE CAN.

11. DIRECTION OF PRIMARY CABLES SHALL BE IDENTIFIED BY COLOR CODING. CONTRACTOR SHALL COORDINATE ALL COLOR CODING REQUIREMENTS WITH OWNER MAINTENANCE PERSONNEL.

12. L–867 BASES SHALL BE SIZE B, 24" DEEP, CLASS IA, UNLESS OTHERWISE NOTED.

13. BASE–MOUNTED FRANGIBLE COUPLINGS MUST NOT HAVE WEEP HOLES TO THE OUTSIDE. PLUGGED HOLES ARE NOT ACCEPTABLE. IT SHALL HAVE A 1/4' DIAMETER, MINIMUM, OR EQUIVALENT OPENING FOR DRAINAGE FROM THE SPACE AROUND THE SECONDARY CONNECTOR INTO THE L–867 BASE.

14. THE ELEVATION OF THE BREAKABLE COUPLING GROOVE SHALL NOT EXCEED 1 1/2" ABOVE THE EDGE OF THE COVER IN CASE OF BASE MOUNTED COUPLINGS, OR THE TOP OF THE STAKE IN CASE OF STAKE MOUNTED COUPLINGS.

15. WHERE THE BREAKABLE COUPLING IS NOT AN INTEGRAL PART OF THE LIGHT FIXTURE STEM OR MOUNTING LEG, A BEAD OF SILICON SEAL SHALL BE APPLIED COMPLETELY AROUND LIGHT STEM OR WIREWAY AT BREAKABLE COUPLING TO PROVIDE A WATERTIGHT SEAL.

16. PLASTIC LIGHTING FIXTURE COMPONENTS, SUCH AS LAMP HEADS, STEMS, BREAKABLE COUPLINGS, BASE COVERS, BRACKETS, STAKES, SHALL NOT BE ACCEPTABLE. THE METAL THREADED FITTINGS SHALL BE SET IN THE FLANGE DURING CASTING PROCESS. BASE COVER BOLTS SHALL BE FABRICATED FROM 18–8 STAINLESS STEEL.

17. EDGE LIGHT NUMBERING TAGS SHALL BE FACING THE PAVEMENT. SEE DETAILS FOR TYPE.

18. CABLE/SPLICE/DUCT MARKERS SHALL BE PRECAST CONCRETE OF THE SIZE SHOWN. LETTERS/NUMBERS/ARROWS FOR THE LEGEND TO BE IMPRESSED INTO THE TOPS OF THE MARKERS SHALL BE PRE–ASSEMBLED AND SECURED IN THE MOLD BEFORE THE CONCRETE IS POURED. LEGEND INSCRIBED BY HAND IN WET CONCRETE SHALL NOT BE ACCEPTABLE.

19. ALL UNDERGROUND CABLE RUNS SHALL BE IDENTIFIED BY CABLE MARKERS AT 200 FEET MAXIMUM SPACING, WITH AN ADDITIONAL MARKER AT EACH CHANGE OF DIRECTION OF THE CABLE RUN. CABLE MARKERS SHALL BE INSTALLED IMMEDIATELY ABOVE THE CABLE.

20. LOCATIONS OF ENDS OF ALL UNDERGROUND DUCTS SHALL BE IDENTIFIED BY DUCT MARKERS.

21. STEEL TAGS TO BE ATTACHED AT BOTH ENDS TO THE CABLE BY THE USE OF PLASTIC STRAPS. MINIMUM OF TWO TAGS SHALL BE PROVIDED ON EACH CABLE IN A MAN/HAND HOLE – ONE AT THE CABLE ENTRANCE AND ONE AT THE CABLE EXIT.

22. APPLY AN OXIDE INHIBITING, ANTI–SEIZING COMPOUND TO ALL SCREWS, NUTS, BOLTS AND BREAKAGE COUPLING THREADS. APPROVED SAE GRADE 5 COATED BOLTS SHALL NOT REQUIRE ANTI–SEIZING COMPOUND.

23. THERE SHALL BE NO SPLICES BETWEEN THE ISOLATION TRANSFORMERS. L–823 CONNECTORS ARE ALLOWED AT TRANSFORMER CONNECTIONS ONLY, UNLESS OTHERWISE SHOWN.

24. CONCRETE USED FOR SLABS, FOOTINGS, BACKFILL AROUND TRANSFORMER HOUSINGS, MARKERS, ETC. SHALL BE CONSISTENT WITH THE REQUIREMENTS OF ITEM P–610.

25. PERFORM ACCEPTANCE TEST FOR SERIES AND MULTIPLE AIRFIELD LIGHTING CIRCUITS ON COMPLETE LIGHTING CIRCUITS. SUBJECT EACH SERIES AND MULTIPLE LIGHTING CIRCUIT TO A HIGH VOLTAGE INSULATION RESISTANCE TEST. SEE SHEET **E–002, NOTE 19** FOR DETAILED REQUIREMENTS.

D. CABLE PROTECTION CRITERIA

1. ALL EXISTING SYSTEMS/UTILTITIES TO REMAIN SHALL BE PROTECTED FROM DAMAGE. REPLACEMENT OF ANY DAMAGED SYSTEMS/UTILITIES SHALL BE AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED ELECTRICAL SYSTEMS AND SHALL MAKE REPAIRS IMMEDIATELY, AT HIS OWN COST. IN ACCORDANCE WITH APPLICABLE FAA SPECIFICATIONS. DAMAGED ELECTRICAL SYSTEMS SHALL BE IMMEDIATELY REPORTED TO THE RPR.

2. EXISTING CONDUIT, DUCTBANK, CIRCUITING AND UTILITY INFORMATION IS BASED ON AIRPORT "AS BUILT" AND "RECORD" DRAWINGS AND SITE VISITS BY THE UTILITIES AND THE ENGINEER. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL NOT BE SCALED FOR EXACT LOCATIONS. NOT ALL UTILITIES MAY BE SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE UTILITY/AGENCY, PRIOR TO STARTING WORK, FOR THE LOCATION OF EXISTING UTILITIES. ANY INTERPRETATION OF AN EXISTING SYSTEM OR UTILITY SERVICE SHALL BE COORDINATED AND APPROVED BY THE AUTHORITY, AGENCY OR UTILITY HAVING JURISDICTION. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL CONTACT ALL LOCAL UTILITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE APPROPRIATE UTILITY COMPANIES, AGENCY ETC. PRIOR TO ANY EXCAVATION/CONSTRUCTION TO LOCATE THE UTILITY, AGENCIES, UNDERGROUND CABLES, PIPES, CONDUITS, DUCTBANKS, ETC. REPLACEMENT OF EXISTING CABLES OR UTILITIES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE AT THE CONTRACTORS EXPENSE.

4. EXISTING CABLES AND CONDUITS SHALL BE EXCAVATED BY HAND. SEE GENERAL NOTES ON **E–002** FOR ADDITIONAL REQUIREMENTS.

5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THAT ALL AIRFIELD LIGHTING CIRCUITS, EXCEPT THOSE THAT ARE SERVING CLOSED TAXIWAYS OR RUNWAYS, ARE COMPLETELY OPERATIONAL, USING THE EXISTING CONTROLS, AT THE TERMINATION OF WORK EACH DAY AND SHALL SO CERTIFY TO THE OWNERS AUTHORIZED REPRESENTATIVE BEFORE LEAVING THE SITE.

6. INSTALL A PLASTIC, DETECTABLE, MAGNETIC THREE INCH (3") WIDE TAPE EIGHT INCHES (8") BELOW GRADE ABOVE ALL PORTIONS OF EXISTING UNDERGROUND UTILITIES EXPOSED FOR ANY REASON. THE DETECTABLE TAPE SHALL BE OMITTED WHERE THE UNDERGROUND UTILITY IS UNDER AIRFIELD PAVEMENT.

7. FAA CABLES AND FIBER OPTIC CABLES DAMAGED DURING CONSTRUCTION CANNOT BE SPLICED BY THE CONTRACTOR UNLESS ORDERED BY THE FAA AND THE OWNER. DAMAGE TO ANY EXISTING CABLE SHALL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR THE COMPLETE REPLACEMENT OF THE CABLE.

E. GROUNDING

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC (NFPA–70), FAA–SO–STD–71 AND FAA–STD–019f, LATEST EDITIONS.

2. GROUND ALL NON–CURRENT–CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT BY USING NO. 6 AWG BARE COPPER EXOTHERMICALLY WELDED TO GROUND ROD AT EACH LIGHT FIXTURE BASE LOCATION. CONNECT TO BASE EXTERNAL GROUND LUG.

3. ALL GROUND CONNECTIONS TO BUSSES, PANELS, ETC. SHALL BE MADE WITH PRESSURE TYPE SOLDERLESS LUGS AND CLEAN ALL METAL SURFACES BEFORE MAKING GROUND CONNECTIONS. ALL GROUND CONNECTIONS AT GROUND RODS SHALL BE EXOTHERMIC TYPE (CADWELD OR EQUAL).

4. TOPS OF GROUND RODS SHALL BE A MINIMUM OF 6 INCHES BELOW GRADE.

5. THE RESISTANCE TO GROUND OF THE VAULT GROUNDING SYSTEM WITH THE COMMERCIAL POWER LINE NEUTRAL DISCONNECTED SHALL NOT EXCEED 10 OHMS. THIS PERTAINS TO THE VAULT GROUNDING SYSTEM ONLY.

6. THE RESISTANCE TO GROUND OF THE COUNTERPOISE SYSTEM, OR AT ISOLATED LOCATIONS, SUCH AS AIRPORT BEACON SHALL NOT EXCEED 25 OHMS. THIS REFERS TO EACH GROUND ROD LOCATION IN THE AIRFIELD. IF SOIL RESISTIVITY IS HIGH, PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO MEET 25 OHMS REQUIREMENTS.

7. ALL NEW SIGN BASES AND MANHOLES SHALL HAVE GROUND RODS IN ADDITION TO THE REQUIREMENTS OF PLACING THE GROUND RODS SHALL BE A MINIMUM OF 10 FEET DEEP AND 3/4 INCH DIAMETER AND SHALL BE MEGGERED TO OBTAIN A NOT–TO–EXCEED 25 OHMS, RESISTANCE TO GROUND PRIOR TO CONNECTION WITH THE COUNTERPOISE SYSTEM.

8. SURGE PROTECTIVE DEVICES (SPD) SHALL BE INSTALLED IN ACCORDANCE WITH FAA–STD–019e. THESE DEVICES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE PANEL THEY SERVE AND IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. THE CONDUIT OR CONDUIT NIPPLE CONNECTING THE SPD ENCLOSURE TO THE PANEL ENCLOSURE SHALL BE SEALED WITH DUCT SEAL OR OTHER APPROVED NON FLAMMABLE MEDIUM TO PREVENT SOOT FROM ENTERING THE ENCLOSURE IN THE EVENT OF SPD FAILURE.

9. CONDUCT A MEGGER TEST ON EACH SECTION OF CIRCUIT OR PROGRESSIVE COMBINATION OF SECTIONS AS THEY ARE INSTALLED. CHECK EACH SECTION OR PROGRESSIVE COMBINATION OF SECTIONS WITH A MEGOHMETER PROVIDING A VOLTAGE OF APPROXIMATELY 1000 VOLTS TO PROVIDE A DIRECT READING IN RESISTANCE, AND DOCUMENT RESULTS. LOCATE ANY FAULTS INDICATED BY THE TEST AND ELIMINATE BEFORE PROCEEDING WITH THE CIRCUIT INSTALLATION.

10. PROVIDE A LIGHT BASE GROUND INSTALLED AT EACH LIGHT FIXTURE. THE LIGHT BASE GROUND SHALL BE SEPARATE FROM THE COUNTERPOISE SYSTEM. THE PURPOSE OF THE LIGHT BASE GROUND IS TO PROVIDE A DEGREE OF PROTECTION FOR MAINTENANCE PERSONNEL FROM POSSIBLE CONTACT WITH AN ENERGIZED LIGHT BASE OR MOUNTING STAKE.
    - 10.1. THE LIGHT BASE GROUND MUST BE A #6 AWG BARE COPPER WIRE JUMPER BONDED TO THE GROUND LUG AT FIXTURE BASE OR STAKE TO A GROUND ROD INSTALLED BESIDE THE FIXTURE. INSTALL GROUND ROD WITHIN LIGHT BASE EXCAVATION.

GROUND TEST LOCATION	MAXIMUM RESISTANCE ALLOWED PRIOR TO COUNTERPOISE SYSTEM CONNECTION	MAXIMUM RESISTANCE ALLOWED WITH COUNTERPOISE SYSTEM CONNECTION
TAXIWAY EDGE LIGHTS	25 OHMS	10 OHMS
RUNWAY EDGE LIGHTS	25 OHMS	10 OHMS
GUIDANCE SIGNS	25 OHMS	10 OHMS
AIRFIELD LIGHT VAULT GROUND TEST WELL	10 OHMS	10 OHMS
AIRFIELD LIGHTING VAULT MAIN SERVICE GROUND	10 OHMS	10 OHMS
AIRFIELD BEACON	10 OHMS	10 OHMS
JUNCTION CAN PLAZAS	25 OHMS	10 OHMS
WIND CONES	10 OHMS	10 OHMS
PERCISION APPROACH PATH INDICATOR	25 OHMS	10 OHMS
RUNWAY END IDENTIFICATION LIGHTS	25 OHMS	10 OHMS

THE OHMEGA GROUP LLC
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ELIZABETH CITY
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AIRFIELD
ELECTRICAL NOTES

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SHEET

E-003

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LIGHTING FIXTURE SCHEDULE

FIXTURE/ TAG	QTY. OF FIXTURE	SIZE	DESCRIPTION	LENS/ REFLECTOR	FIXTURE HOUSING			MANUFACTURER		INSTALL/ MOUNTING	LUMENS	DISTRIBUTION TYPE	LAMP			VOLTAGE/ DRIVER	MISCELLANEOUS/ ACCESSORIES
					FRAME/ FINISH	BODY	AIR/ FUNCTION	MANUFACTURER	CATALOG				QTY.	WATTS	TYPE/COLOR		

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LIGHTING FIXTURE SCHEDULE

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JOB NO.	023-031
SHEET	E-004

TAXIWAY

TERMINAL BLGD

P1–1
P1–2
P1–3
P1–4
P2–1
P2–2

HANGAR

12 - UNIT T-HANGAR

10 - UNIT T-HANGAR

NOW OR FORMERLY
ELIZABETH CITY
PASQUOTANK COUNTY
AIRPORT AUTHORITY
D.B. 576, PG. 693

N 922,566.59
E 2,832,951.71

TIE TO NGS "GUARD"

CONSOLIDATED ROAD - SR 1131 (60' R/W)

GENERAL NOTES

1. SEE **E001** FOR GENERAL NOTES.

KEYED NOTES

1.
2.
4.

NORTH

AIRFIELD ELECTRICAL TERMINAL PLAN

0 15' 30' 60' 90'

SCALE: 1" = 30'-0"

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AIRFIELD ELECTRICAL TERMINAL PLAN

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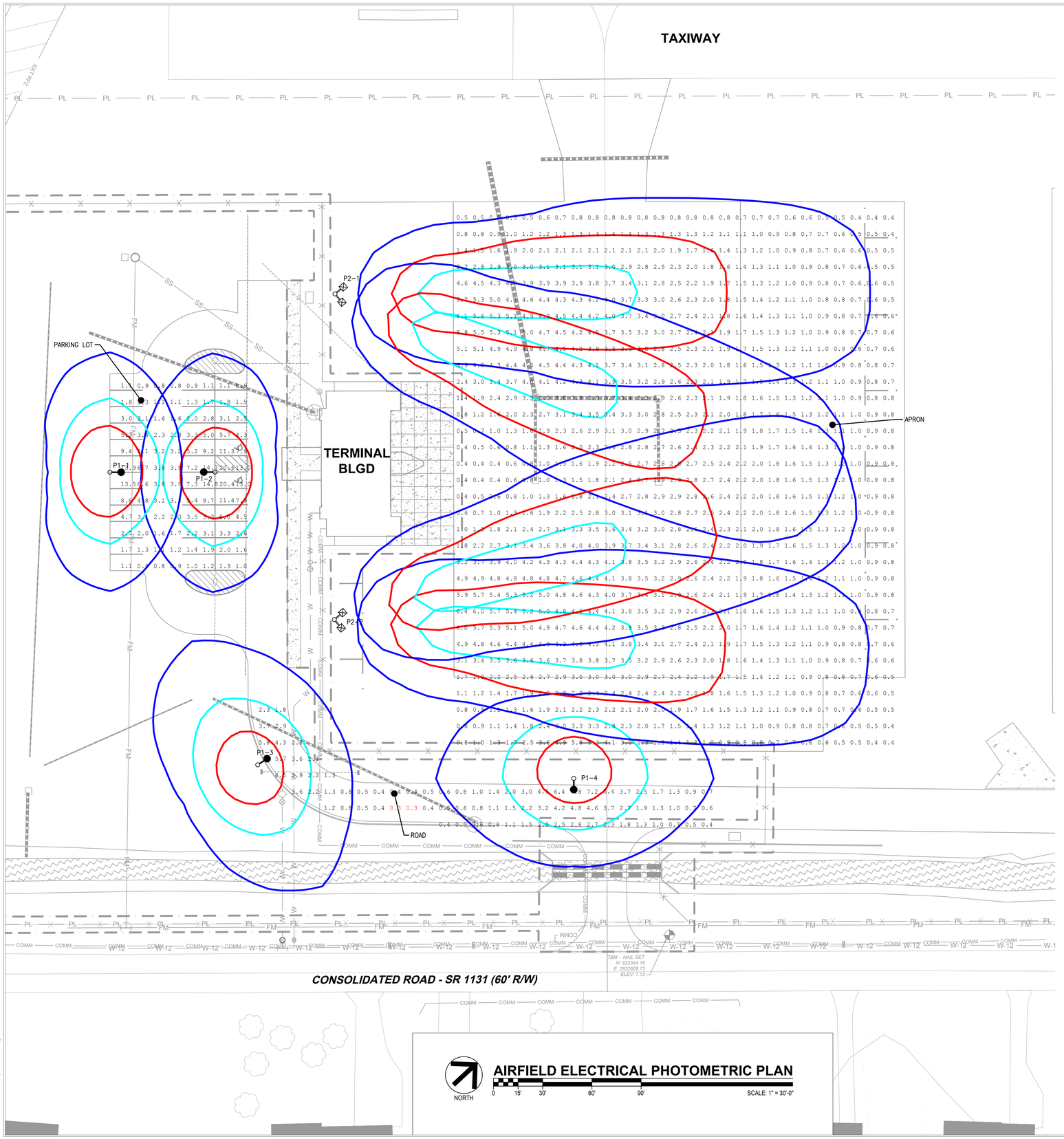


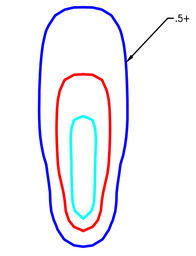
GENERAL NOTES

1. SEE **E001** FOR GENERAL NOTES.

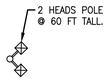
PHOTOMETRIC SUMMARY

HORIZONTAL ILLUMINANCE – FOOT–CANDLES (FC)

TERMINAL	AVG	AVG/MIN	MIN
APRON	2.7	5.43:1	0.4
ROAD	2.12	7.07:1	0.3
PARKING LOT	4.34	5.43:1	0.8
IES RP37–22 LIGHTING RECOMMENDATION – RON	2.00	4:1	0.5
IES RP37–22 LIGHTING RECOMMENDATION – ROAD			
IES RP37–22 LIGHTING RECOMMENDATION–PARKING LOT			



LIGHT ILLUMINANCE LEGEND



LIGHT POLE LEGEND

LIGHT ILLUMINANCE LEGEND

LIGHT POLE LEGEND

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AIRFIELD ELECTRICAL PHOTOMETRIC PLAN

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GENERAL NOTES

1. SEE **E001** FOR GENERAL NOTES.

KEYED NOTES

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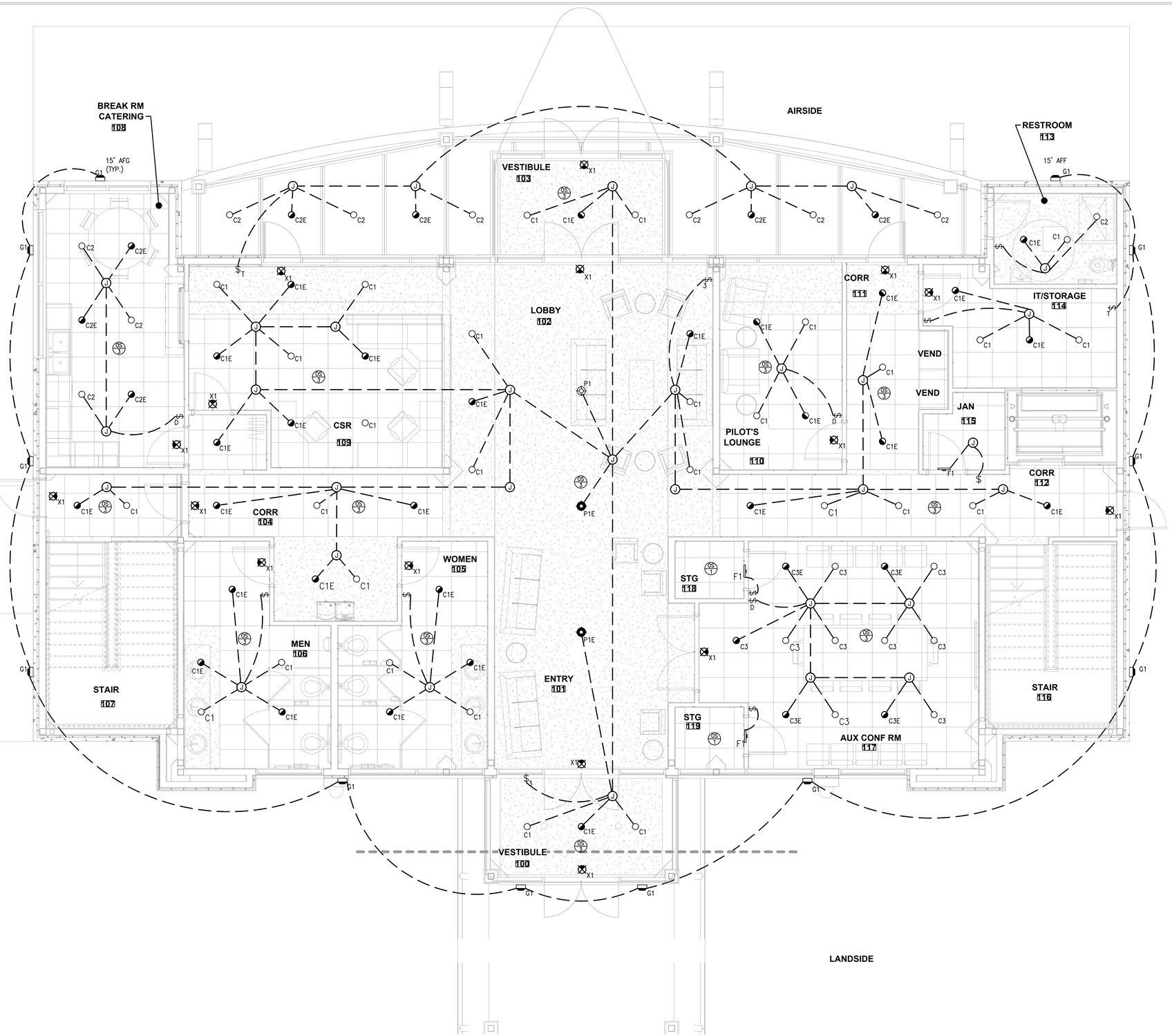

NORTH

ELECTRICAL LIGHTING PLAN - FIRST FLOOR

0 1' 2' 4' 8' 12'

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

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ELECTRICAL LIGHTING PLAN - FIRST FLOOR

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GENERAL NOTES

1. SEE **E001** FOR GENERAL NOTES.

KEYED NOTES

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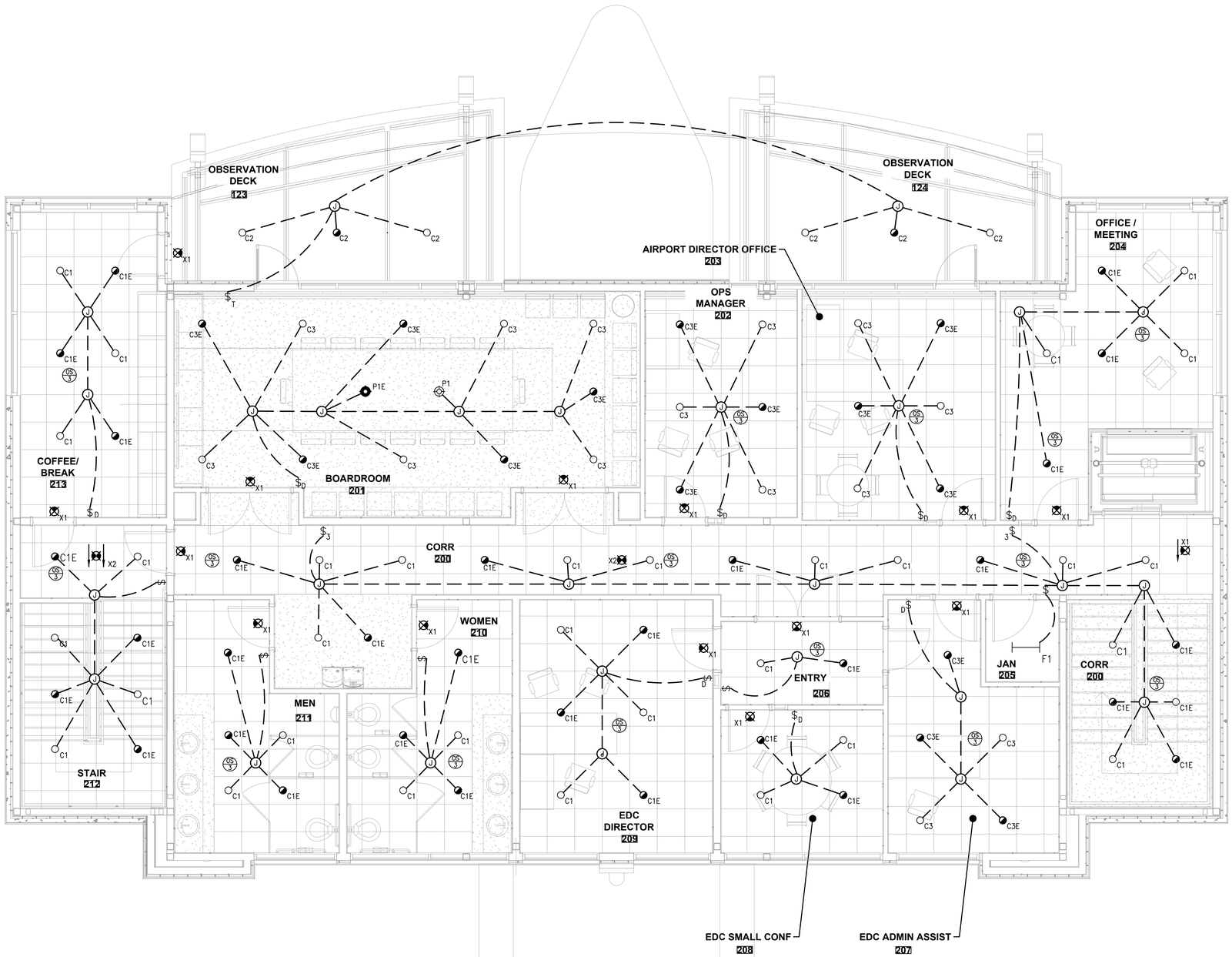

ELECTRICAL LIGHTING PLAN - SECOND FLOOR

NORTH

0 1' 2' 4' 8' 12'

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

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ELECTRICAL LIGHTING PLAN - SECOND FLOOR

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GENERAL NOTES

1. SEE **E001** FOR GENERAL NOTES.

KEYED NOTES

1

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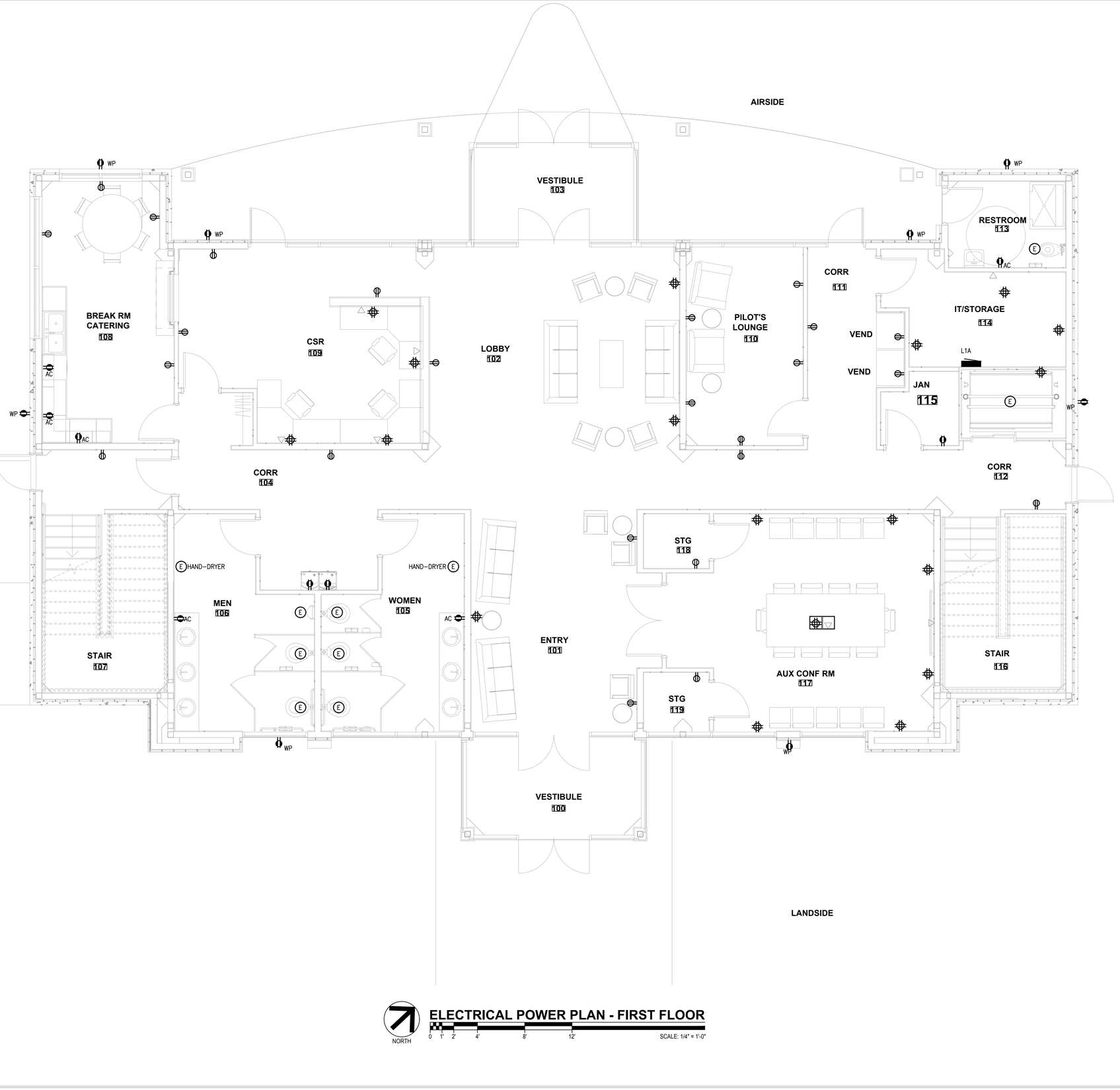

NORTH

ELECTRICAL POWER PLAN - FIRST FLOOR

0 1" 2" 4" 8" 12"

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

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ELECTRICAL POWER PLAN - FIRST FLOOR

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E-301

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GENERAL NOTES

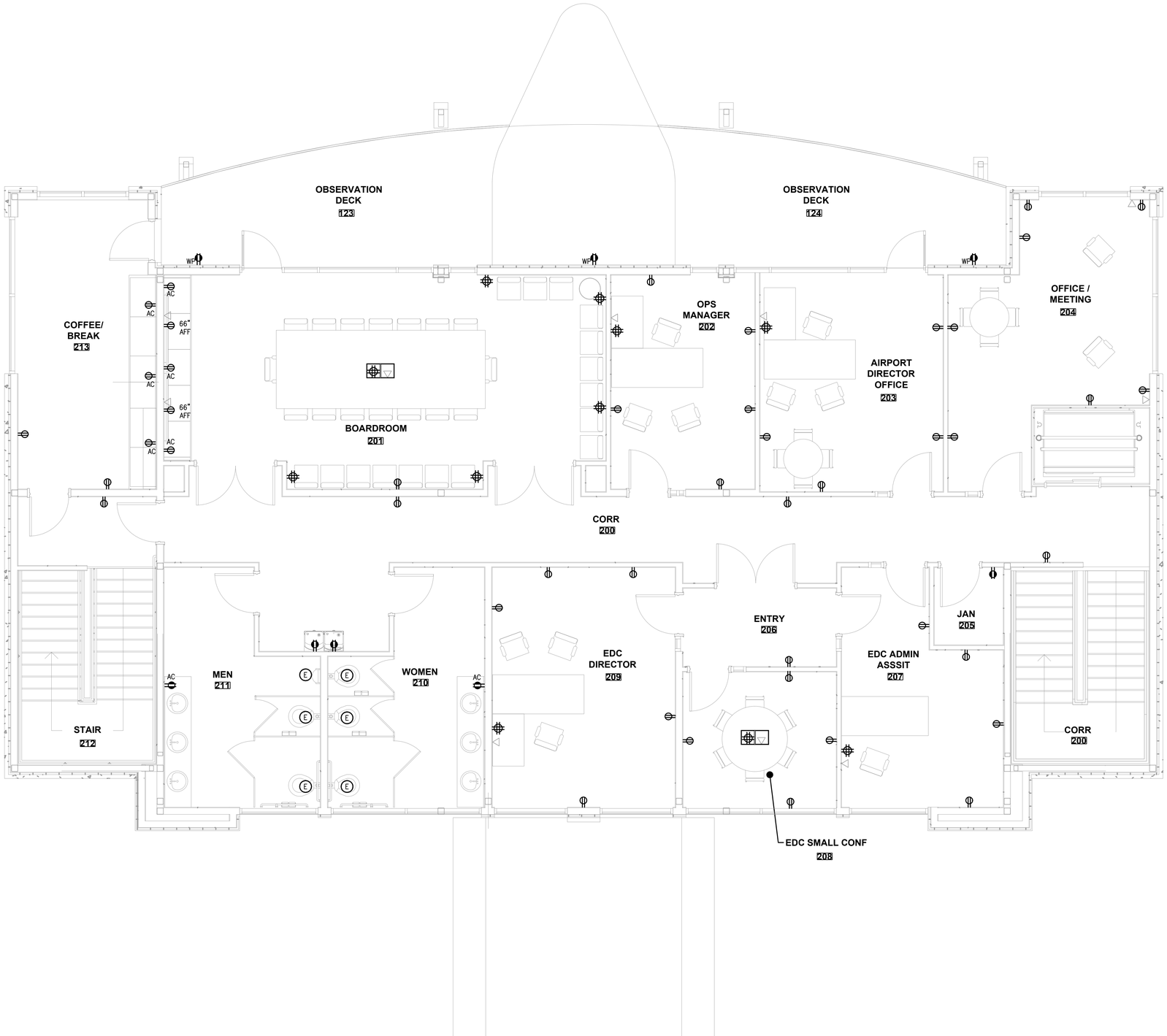
1. SEE **E001** FOR GENERAL NOTES.

KEYED NOTES

1

2

4



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ELECTRICAL POWER PLAN - SECOND FLOOR

0 1' 2' 4' 8' 12'

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

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ELECTRICAL POWER PLAN - SECOND FLOOR

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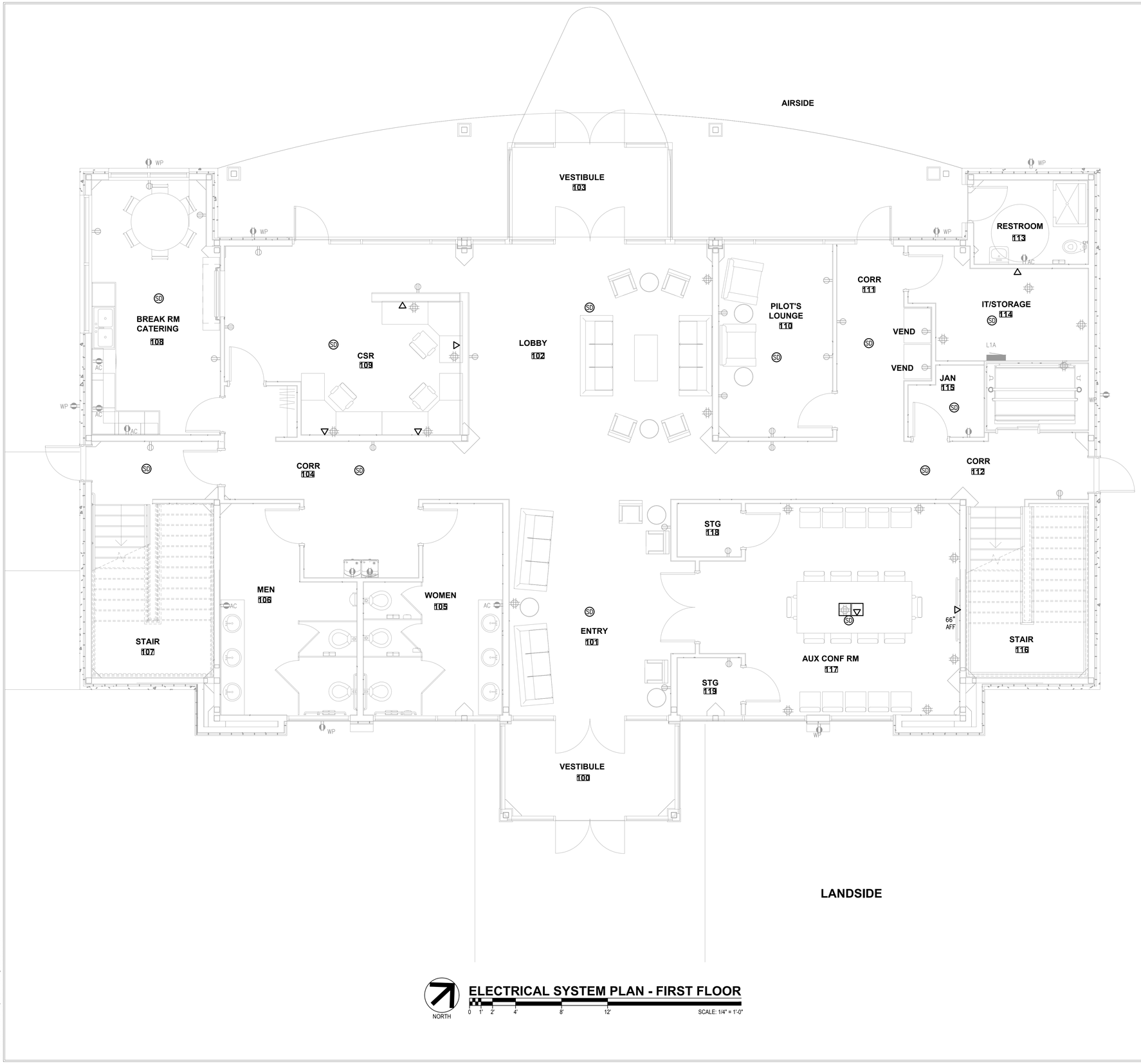

GENERAL NOTES

1. SEE **E001** FOR GENERAL NOTES.

KEYED NOTES

1.

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ELECTRICAL SYSTEM PLAN - FIRST FLOOR

NORTH

ELECTRICAL SYSTEM PLAN - FIRST FLOOR

0 1' 2' 4' 8' 12'

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

THE OHMEGA GROUP LLC NO. P-1143 CERTIFICATE OF AUTHORIZATION NORTH CAROLINA

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SHEET	E-401

GENERAL NOTES

1. SEE **E001** FOR GENERAL NOTES.

KEYED NOTES

1

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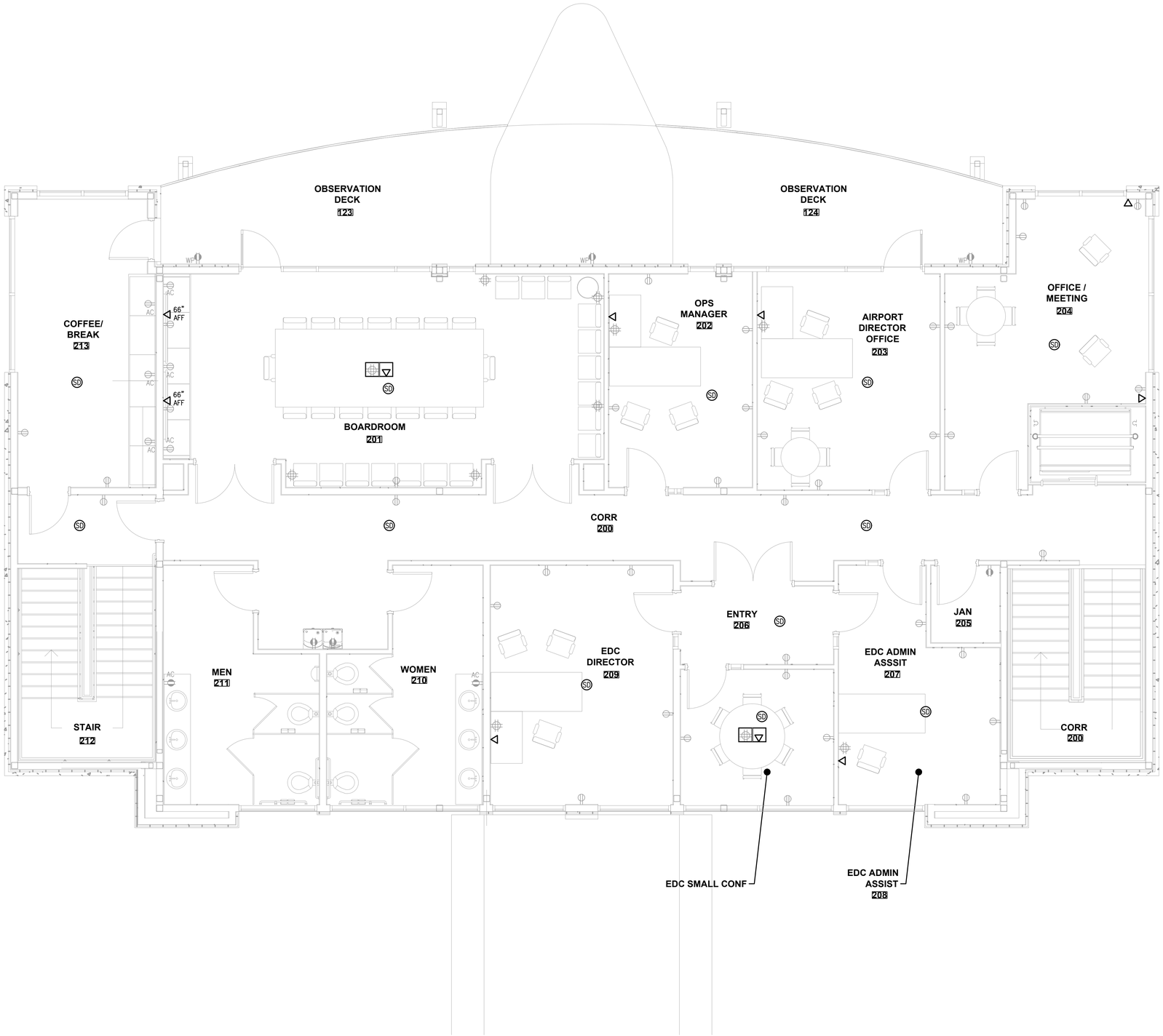

NORTH

ELECTRICAL SYSTEM PLAN - SECOND FLOOR

0 1' 2' 4' 8' 12'

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

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ELECTRICAL SYSTEM PLAN - SECOND FLOOR

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