

CONSTRUCTION DOCUMENTS

STAR COMMUNICATIONS NEW OPERATIONS BUILDING

CLINTON, NC

JKF PROJECT NO. 2022-17

VOLUME 4

JULY 15, 2023

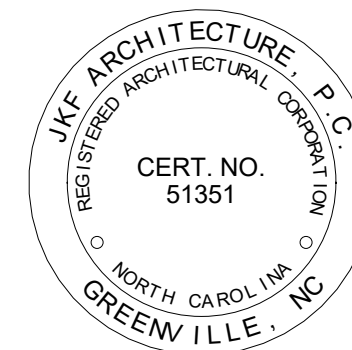
2110 TITLE SHEET
28C11 LIFE SAFETY PLAN, BUILDING CODE ANALYSIS,
LEGENDS, SYMBOLS AND ABBREVIATIONS

ARCHITECTURAL
2A11 FLOOR PLAN
2A2.1 BUILDING ELEVATIONS
2A2.2 BUILDING SECTIONS
2A3.1 WALL SECTIONS
2A4.1 ENLARGED PLANS
2A5.1 REFLECTED CEILING PLAN
2A6.1 EXTERIOR DETAILS
2A7.1 WALL TYPES AND INTERIOR DETAILS
2A8.1 DOOR AND WINDOW SCHEDULE

STRUCTURAL
250.1 GENERAL NOTES
250.2 GENERAL NOTES AND ABBREVIATIONS
2511 FOUNDATION PLAN
252.1 ROOF FRAMING PLAN
253.1 SECTIONS
253.2 SECTIONS
255.1 TYPICAL DETAILS
255.2 TYPICAL DETAILS
255.3 TYPICAL DETAILS



FIRE PROTECTION
2FP1.1 FIRE PROTECTION PLAN
2FP2.1 FIRE PROTECTION NOTES, LEGENDS, AND DETAILS
PLUMBING
2P1.1 WATER PIPING PLAN
2P2.1 WASTE PIPING PLAN
2P3.1 ENLARGED PLUMBING PLANS
2P4.1 WASTE PIPING RISER
2P5.1 PLUMBING FIXTURE SCHEDULE
2P5.2 PLUMBING FIXTURE SCHEDULE AND DETAILS
2P5.3 PLUMBING NOTES, LEGEND, LOAD AND DETAILS
MECHANICAL
2M1.1 MECHANICAL PLAN
2M2.1 MECHANICAL SCHEDULE
2M2.2 MECHANICAL NOTES, LEGEND AND DETAILS
2M3.1 MECHANICAL DETAILS
2M4.1 VRF INFORMATION
ELECTRICAL
2E1.1 LIGHTING PLAN
2E2.1 POWER PLAN
2E3.1 HVAC POWER PLAN
2E4.1 POWER RISER AND PANEL SCHEDULES
2E4.2 PANEL SCHEDULES
2E5.1 LEGEND, NOTES, DETAILS AND FIXTURE SCHEDULE
2E5.2 LIGHTING DETAILS
FIRE ALARM
2FA1.1 FIRE ALARM PLAN
2FA2.1 FIRE ALARM RISER, LEGEND, NOTES, DETAILS AND
MATRIX
2FA2.2 BDA SYSTEM DETAIL



RIVERS & ASSOCIATES, INC.
CIVIL ENGINEERS
107 EAST SECOND STREET
GREENVILLE, NC 27858
252-752-4135

NESER & ROOMSBURG, PA
STRUCTURAL ENGINEERS
748 LORD DUNMORE DRIVE, STE. 101
VIRGINIA BEACH, VA 23464
757-474-0612

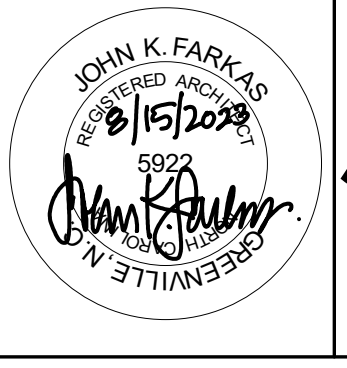
ATLANTEC ENGINEERS, PA
PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
919-571-1111

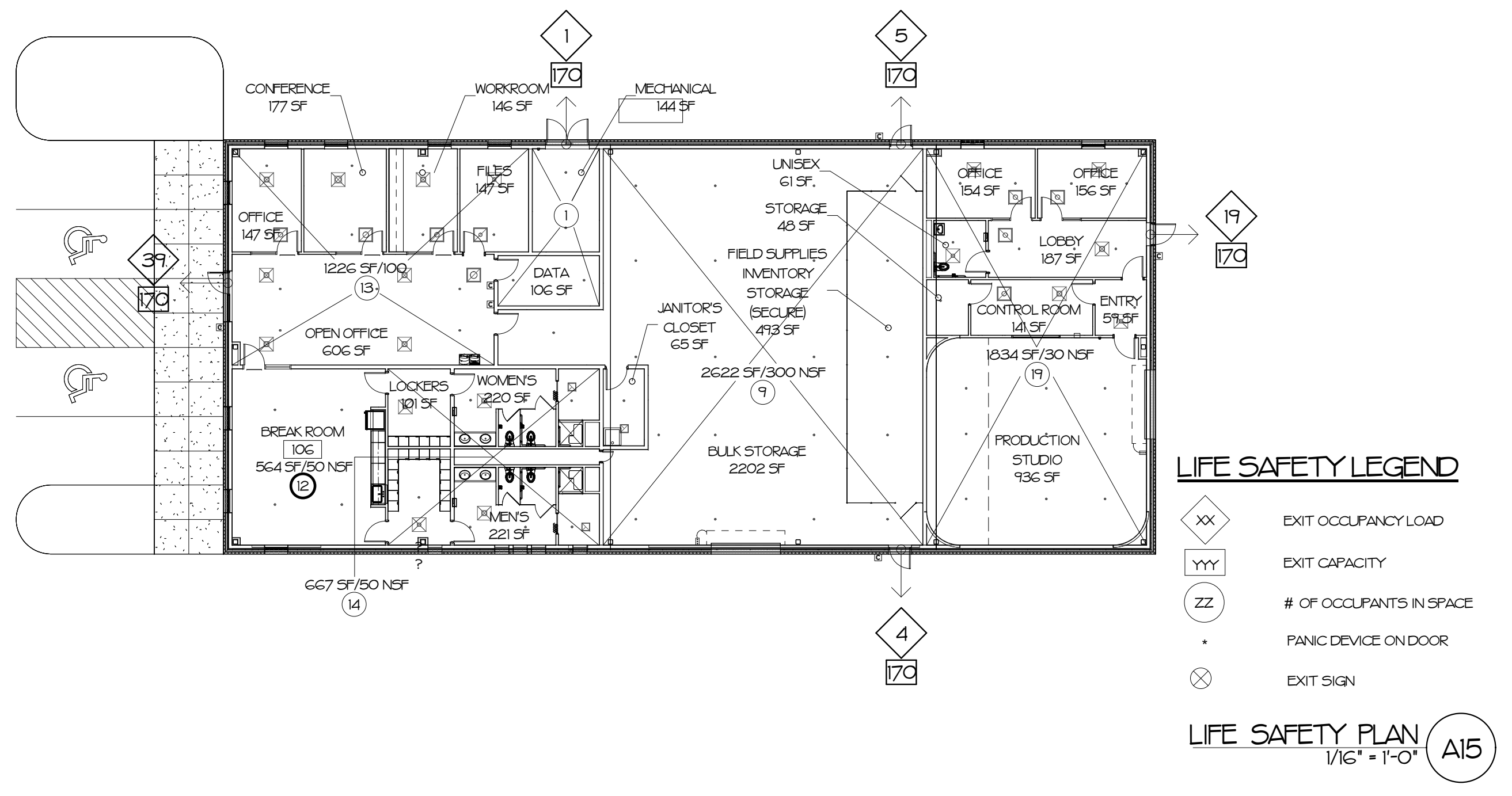
ROOM FINISH SCHEDULE (SEE FLOOR PLANS)	ARCHITECTURAL ABBREVIATIONS
ROOM NAME [IOI] [A] [B] [C]	APC ACOUSTICAL PANEL CEILING ADJ ADJACENT AFF ABOVE FINISHED FLOOR AL ALUMINUM ALTERN ALTERNATE AN ANODIZED ATTN ATTENTION BD BOARD BIT BITUMINOUS BLKG BLOCKING BLKT BLANKET BM BEAM BOP BOTTOM OF PLATE BOS BOTTOM OF STEEL BRG BEARING CAB CABINET CAP CAPACITY CATCH BASIN CB CENTERLINE C CLG HGT CEILING HEIGHT CLJ CONTROL JOINT CLR CLEAR CLG CEILING CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONSTR CONSTRUCTION CONT CONTINUOUS CONTR CONTRACTOR CT CERAMIC TILE DWG DRAWING EA EACH EC ELECTRICAL CONTRACTOR EF EXHAUST FAN ELEC ELECTRICAL ENCL ENCLOSURE EOS EDGE OF SLAB EWC ELECTRIC WATER COOLER EXIST EXISTING EXPD EXPOSED EXP JT EXPANSION JOINT EXT EXTERIOR FDN FOUNDATION FE FIRE EXTINGUISHER FFE FINISHED FLOOR ELEVATION FL FLOOR FRP FIBERGLASS REINFORCED POLYESTER FT FIRE RETARDANT TREATED FTG FOOTING FLR FLOORING GA GAUGE GAL GALLON GALV GALVANIZED GB GRASS BAR GC GENERAL CONTRACTOR GL GLASS GYP BD GYPSUM BOARD HW HARDWARE HM HOLLOW METAL HP HIGH POINT HT HEIGHT HVAC HEATING VENTILATION AIR CONDITIONING INT INTERIOR INSUL INSULATION INV INVERT JT JOINT LAV LAVATORY LP LOW POINT MANUF MANUFACTURER MC MECHANICAL CONTRACTOR MECH MECHANICAL MIN MINIMUM MO MASONRY OPENING MTD MOUNTED MTL METAL NC NOT IN CONTRACT NTS NOT TO SCALE O/C ON CENTER OH OVERHANG O-D OVERHEAD OPNG OPENING PART PARTITION PC PLUMBING CONTRACTOR PL PLATE P PAINTED REF REFRIGERATOR REINF REINFORCED / REINFORCING REQD REQUIRED RM ROOM RO ROUGH OPENING RSW RAIL AND STILE WOOD SCHED SCHEDULE SF SQUARE FEET SIM SIMILAR SPECS SPECIFICATIONS SS STANDARD STEEL STD STANDARD STL STEEL STRUCT STRUCTURE / STRUCTURAL SUSP SUSPENDED TC TOP CURB TF TOP FINISH TG TOP GRATE TEMP TEMPERED TK THICK TJ TOP OF JOIST T/M TOP OF MASONRY TOP OF PLATE TOS TOP OF SLAB TOW TOP OF WALL TYP TYPICAL T/S TOP OF STEEL TS TUBE STEEL UNO UNLESS OTHERWISE NOTED VAR VARIES VERT VERTICAL VFI VERIFY IN FIELD WD WOOD WDW WINDOW WSC WOOD SOLID CORE WWF WELDED WIRE FABRIC W WITH
FLOOR MATERIALS/FINISH OR CARPET TILE CT CERAMIC TILE EC EXPOSED CONCRETE, SEALED LV LUXURY VINYL TILE	
BASE MATERIALS CT CERAMIC TILE R RUBBER	
WALL MATERIALS/FINISH CT CERAMIC TILE P PAINTED GYPSUM BOARD ERW EXPOSED FLYWOOD	
REFLECTED CEILING PLAN LEGEND	
ROOM NAME [IOI] [MAT] [HEIGHT]	ROOM NO. FIN. CLG. HEIGHT AFF. CEILING MATERIAL
INDIRECT LAY-IN LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS FOR SIZE AND TYPE)	
DIRECT/INDIRECT PENDENT MOUNTED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS FOR SIZE AND TYPE)	
PROJECTOR (BY OWNER)	
SUPPLY AIR DIFFUSER	
RETURN AIR DIFFUSER	
EXHAUST AIR GRILLE	
DOWNLIGHT FIXTURE	
SMOKE DETECTOR	
HEAT DETECTOR	
EXIT SIGN SIGN FACE DIRECTION ARROW IF NEEDED	
SPRINKLER HEAD (SEE LEGEND) DATUM ABOVE FIN. FLOOR	
SPRINKLER HEAD (WALL MOUNTED)	
ACCESS DOOR	
CEILING MATERIAL LEGEND	
APC ACOUSTICAL PANEL CEILING (IF FOLLOWED BY NUMERAL DENOTES SPECIAL TYPE AS SPECIFIED)	
PGB PAINTED GYPSUM BOARD	
EXP EXPOSED STRUCTURE DECK PAINTED.	
GENERAL PROJECT LEGEND	
SIM TO REFERENCE NO. DRAWING NO.	
Denotes change in finished floor material.	
ELEVATION REFERENCE	
DOOR NO.	
DOOR ASSEMBLY DESIGNATION	
HARDWARE SET NO.	
DOOR GROUP NO.	
PARTITION TYPE (SEE DRAWING A7.1)	
GENERAL NOTE REFERENCE	
NUMBERS DESIGNATE DEMOLITION	
LETTERS DESIGNATE CONSTRUCTION.	

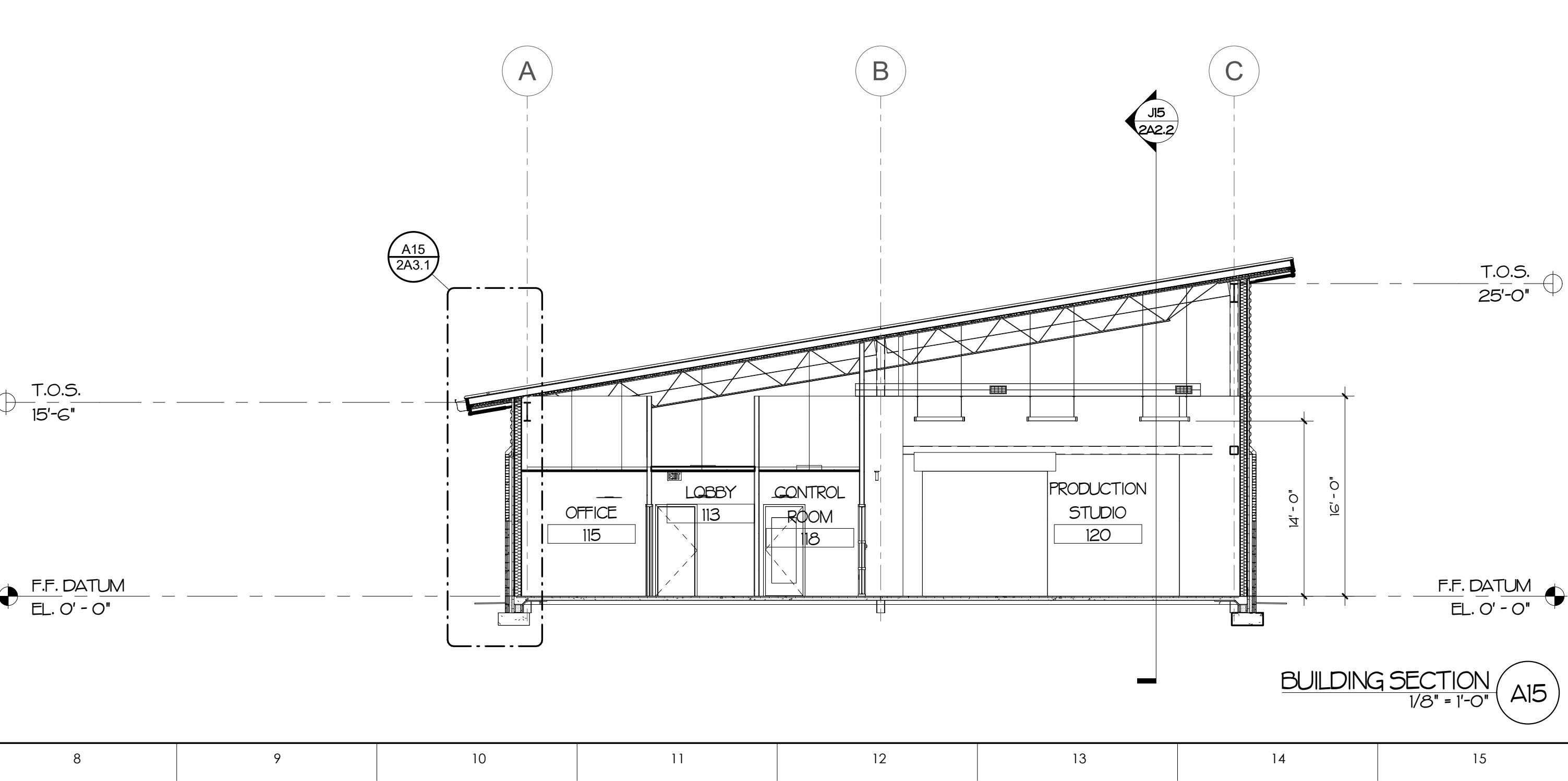
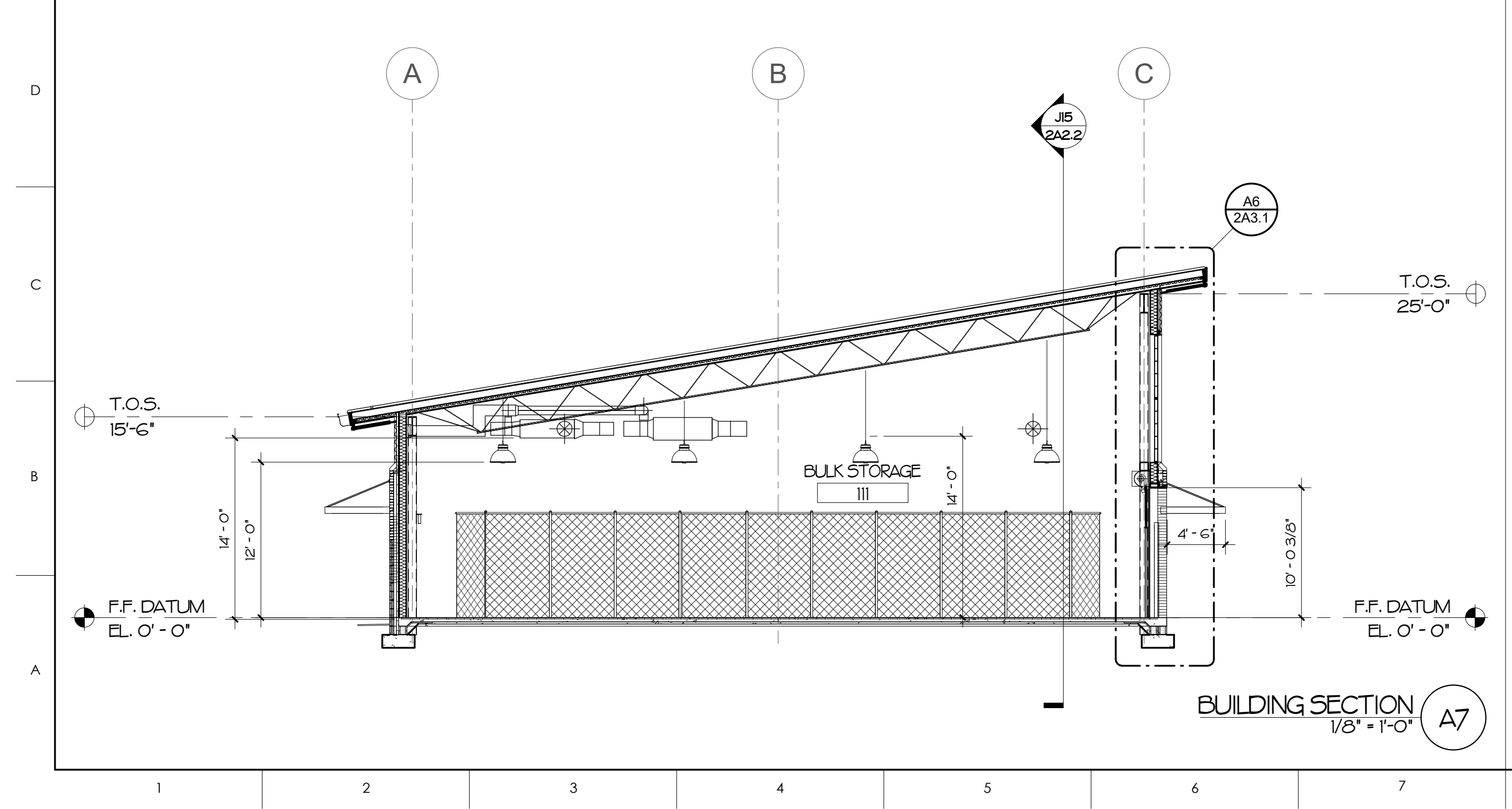
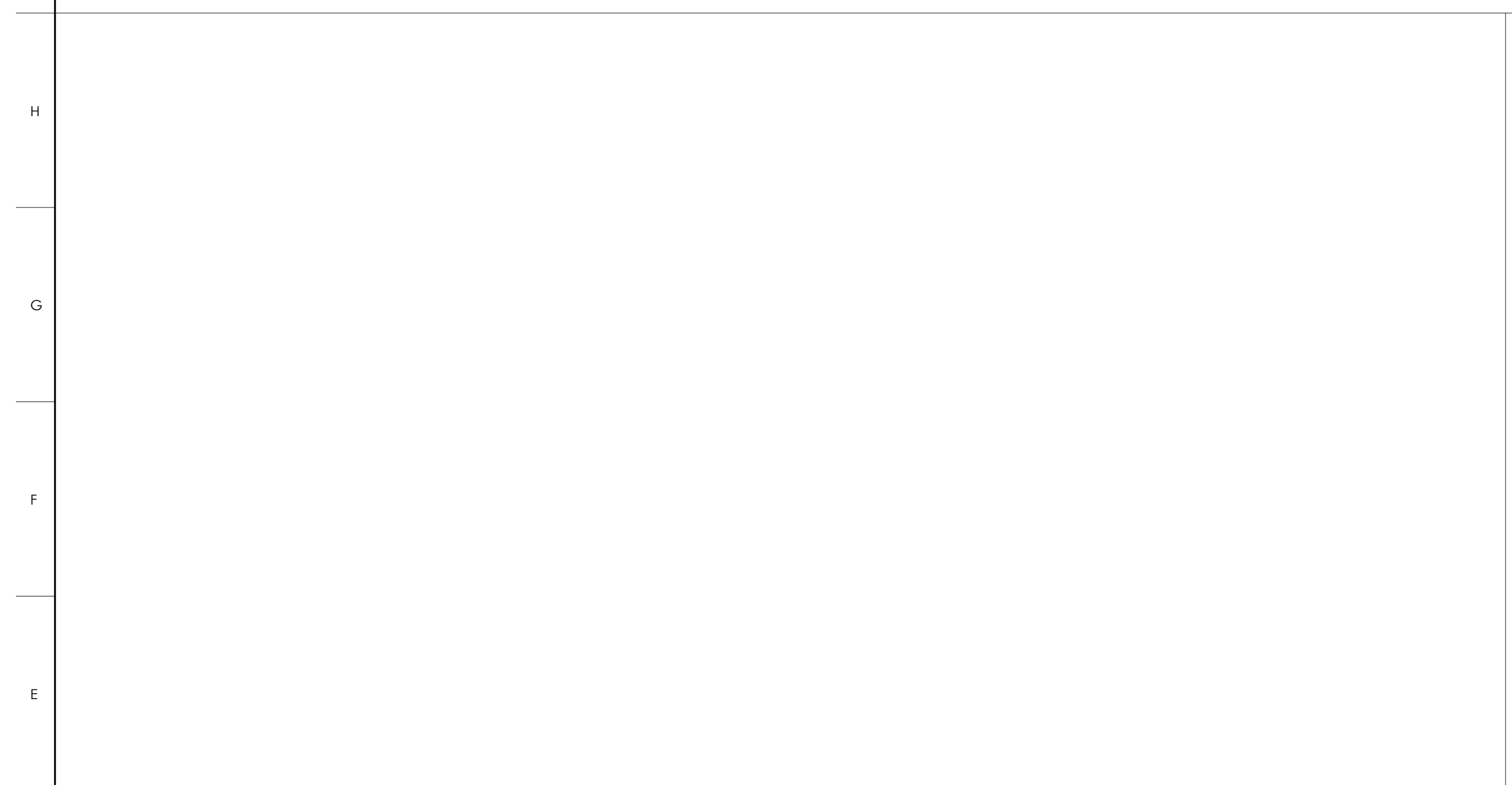
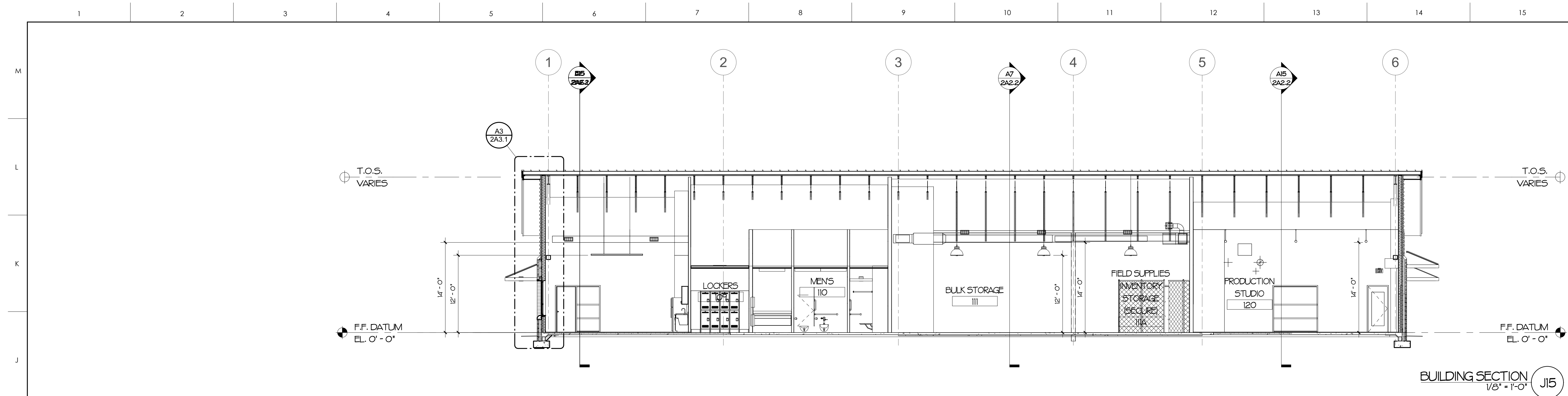
<p align="center">2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2)</p>																	
<p>Name of Project: <u>STAR COMMUNICATIONS NEW HQ - OPERATIONS BUILDING</u> Address: <u>1322 HWY. 24 WEST, CLINTON, NC</u> Zip Code <u>28385</u> Owner/Authorized Agent: <u>JEFF NETHERCUTT</u> Phone # (910) 385-7063 E-Mail <u>JNETHERCUTT@STMC.NET</u> Owned By: <u>Private</u> Code Enforcement Jurisdiction: <u>County SAMPSON</u></p>																	
<p>CONTACT: JOHN K. FARKAS, AIA, LEED Architectural: JKF John K. Farkas, AIA, LEED NC 5922 (252)355-1068 jkf@jkf-arch.com Electrical: JKF Matthew C. NC 48828 (919)855-2040 matthew@atlantecengineers.com Fire Alarm: JKF David J. NC 17382 (919)855-2040 david@atlantecengineers.com Plumbing: JKF Whitney, P.E. NC 22035 (919)855-2040 jim@atlantecengineers.com Mechanical: JKF DelPapa, Jr. NC 051195 (919)855-2040 patrick@atlantecengineers.com Sprinkler: JKF Patrick J. NC 025036 (919)855-2040 brad@atlantecengineers.com Structural: JKF Bradley W. NC 022830 (757)474-0612 kmr@nrwengineering.com Neser & Roomsberg, P.E.</p>																	
<p>2018 NC BUILDING CODE New Building: RISK CATEGORY (Table 1604.5): Proposed: IV</p>																	
<p>BASIC BUILDING DATA Construction Type: II-B Sprinklers: Yes NFPA 13 Standpipes: No Fire District: No Flood Hazard Area: No Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)</p>																	
<p align="center">Gross Building Area Table</p> <table border="1"> <thead> <tr> <th>FLOOR</th> <th>EXISTING (SQ.FT.)</th> <th>NEW (SQ.FT.)</th> <th>SUB-TOTAL</th> </tr> </thead> <tbody> <tr> <td>1st Floor</td> <td>8,000</td> <td>8,000</td> <td></td> </tr> <tr> <td>TOTAL</td> <td>8,000</td> <td>8,000</td> <td></td> </tr> </tbody> </table>						FLOOR	EXISTING (SQ.FT.)	NEW (SQ.FT.)	SUB-TOTAL	1 st Floor	8,000	8,000		TOTAL	8,000	8,000	
FLOOR	EXISTING (SQ.FT.)	NEW (SQ.FT.)	SUB-TOTAL														
1 st Floor	8,000	8,000															
TOTAL	8,000	8,000															
<p align="center">ALLOWABLE AREA</p> <p>Primary Occupancy Classification(s): <u>Storage - S-1 Moderate Select one Select one Select one Select one</u> Accessory Occupancy Classification(s): <u>NONE</u> Incidental Uses (Table 509): <u>NONE</u> Special Uses (Chapter 4 - List Code Sections): <u>-N/A</u> Special Provisions: (Chapter 5 - List Code Sections): <u>-N/A</u> Mixed Occupancy: <u>No</u> Separation: <u>Select one</u> Exception: _____ <input checked="" type="checkbox"/> Non-Separated Use (508.3). The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.</p> <table border="1"> <thead> <tr> <th>STORY NO.</th> <th>DESCRIPTION AND USE</th> <th>(A) BLDG AREA PER STORY (ACTUAL)</th> <th>(B) TABLE 506.2² AREA</th> <th>(C) AREA FOR FRONTAGE INCREASE^{1,5}</th> <th>(D) ALLOWABLE AREA PER STORY OR UNLIMITED³</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>S1-OFFICE-STORAGE-STUDIO</td> <td>7800</td> <td>70,000</td> <td>13,125</td> <td>83,125</td> </tr> </tbody> </table> <p>¹ Frontage area increases from Section 506.3 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = $300 (F)$ b. Total Building Perimeter = $320 (P)$ c. Ratio $(F/P) = 1.0 (F/P)$ d. $W =$ Minimum width of public way = $30 (W)$ e. Percent of frontage increase $[I = 100(F/P - 0.25) X W/30 = 25 (\%)$ ² Unlimited area applicable under conditions of Section 507. ³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2). ⁴ The maximum area of open parking garages must comply with Table 406.5.4. ⁵ Frontage increase is based on the un-sprinklered area value in Table 506.2.</p>						STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ² AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³	1	S1-OFFICE-STORAGE-STUDIO	7800	70,000	13,125	83,125
STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ² AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³												
1	S1-OFFICE-STORAGE-STUDIO	7800	70,000	13,125	83,125												
<p align="center">ALLOWABLE HEIGHT</p> <table border="1"> <thead> <tr> <th></th> <th>ALLOWABLE</th> <th>SHOWN ON PLANS</th> <th>CODE REFERENCE¹</th> </tr> </thead> <tbody> <tr> <td>Building Height in Feet (Table 504.3)²</td> <td>75'</td> <td>22'</td> <td></td> </tr> <tr> <td>Building Height in Stories (Table 504.4)³</td> <td>3</td> <td>1</td> <td></td> </tr> </tbody> </table> <p>¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4. ² The maximum height of air traffic control towers must comply with Table 412.3.1. ³ The maximum height of open parking garages must comply with Table 406.5.4.</p>							ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹	Building Height in Feet (Table 504.3) ²	75'	22'		Building Height in Stories (Table 504.4) ³	3	1	
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹														
Building Height in Feet (Table 504.3) ²	75'	22'															
Building Height in Stories (Table 504.4) ³	3	1															
<p align="center">LIFE SAFETY SYSTEM REQUIREMENTS</p> <p>Emergency Lighting: Yes Exit Signs: Yes Fire Alarm: Yes Smoke Detection Systems: Yes Carbon Monoxide Detection: Yes</p>																	
<p align="center">LIFE SAFETY PLAN REQUIREMENTS</p> <p>Life Safety Plan Sheet #: 2BC1.1</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Fire and/or smoke rated wall locations (Chapter 7) <input checked="" type="checkbox"/> Assumed and real property line locations (if not on the site plan) <input checked="" type="checkbox"/> Exterior wall opening area with respect to distance to assumed property lines (705.8) <input checked="" type="checkbox"/> Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) <input checked="" type="checkbox"/> Occupant loads for each area <input checked="" type="checkbox"/> Exit sign locations (1013) <input checked="" type="checkbox"/> Exit access travel distances (1017) <input checked="" type="checkbox"/> Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) <input checked="" type="checkbox"/> Dead end lengths (1020.4) - <u>N/A</u> <input checked="" type="checkbox"/> Clear exit widths for each exit door <input checked="" type="checkbox"/> Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) <input checked="" type="checkbox"/> Actual occupant load for each exit door <input type="checkbox"/> A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation <input type="checkbox"/> Location of doors with panic hardware (1010.1.10) <input type="checkbox"/> Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) <input type="checkbox"/> Location of doors with electromagnetic egress locks (1010.1.9.9) <input type="checkbox"/> Location of doors equipped with hold-open devices <input type="checkbox"/> Location of emergency escape windows (1030) <input type="checkbox"/> The square footage of each fire area (202) <input type="checkbox"/> The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) <input type="checkbox"/> Note any code exceptions or table notes that may have been utilized regarding the items above 																	

<p align="center">FIRE PROTECTION REQUIREMENTS</p> <table border="1"> <thead> <tr> <th>BUILDING ELEMENT</th> <th>FIRE SEPARATION DISTANCE (FEET)</th> <th>REQ'D</th> <th>RATING PROVIDED (W - REDUCTION)</th> <th>DETAIL # AND SHEET #</th> <th>DESIGN # FOR RATED ASSEMBLY</th> <th>SHEET # FOR RATED PENETRATION</th> <th>SHEET # FOR RATED JOINTS</th> </tr> </thead> <tbody> <tr> <td>Structural Frame, including columns, girders, trusses</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Exterior Walls</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Interior Walls</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nonbearing Walls and Partitions</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Exterior walls</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>North</td> <td>>30</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>East</td> <td>>30</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>West</td> <td>>30</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>South</td> <td>>30</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Interior walls and partitions</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Floor Construction including supporting beams and joists</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Floor Ceiling Assembly</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Columns Supporting Floors</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Roof Construction, including supporting beams and joists</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Roof Ceiling Assembly</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Columns Supporting Roof</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Shaft Enclosures - Exit</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Shaft Enclosures - Other</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Corridor Separation</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Occupancy Fire Barrier Separation</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Party/Fire Wall Separation</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Smoke Barrier Separation</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Smoke Partition</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tenant Dwelling Unit/ Sleeping Unit Separation</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Incidental Use Separation</td> <td></td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>* Indicate section number permitting reduction</p>						BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W - REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS	Structural Frame, including columns, girders, trusses		0						Exterior Walls			N/A					Interior Walls								Nonbearing Walls and Partitions								Exterior walls								North	>30	0						East	>30	0						West	>30	0						South	>30	0						Interior walls and partitions								Floor Construction including supporting beams and joists			N/A					Floor Ceiling Assembly			N/A					Columns Supporting Floors			0					Roof Construction, including supporting beams and joists			0					Roof Ceiling Assembly			0					Columns Supporting Roof			0					Shaft Enclosures - Exit			N/A					Shaft Enclosures - Other			N/A					Corridor Separation			0					Occupancy Fire Barrier Separation			0					Party/Fire Wall Separation			N/A					Smoke Barrier Separation			N/A					Smoke Partition			N/A					Tenant Dwelling Unit/ Sleeping Unit Separation			N/A					Incidental Use Separation			N/A				
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W - REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS																																																																																																																																																																																																														
Structural Frame, including columns, girders, trusses		0																																																																																																																																																																																																																			
Exterior Walls			N/A																																																																																																																																																																																																																		
Interior Walls																																																																																																																																																																																																																					
Nonbearing Walls and Partitions																																																																																																																																																																																																																					
Exterior walls																																																																																																																																																																																																																					
North	>30	0																																																																																																																																																																																																																			
East	>30	0																																																																																																																																																																																																																			
West	>30	0																																																																																																																																																																																																																			
South	>30	0																																																																																																																																																																																																																			
Interior walls and partitions																																																																																																																																																																																																																					
Floor Construction including supporting beams and joists			N/A																																																																																																																																																																																																																		
Floor Ceiling Assembly			N/A																																																																																																																																																																																																																		
Columns Supporting Floors			0																																																																																																																																																																																																																		
Roof Construction, including supporting beams and joists			0																																																																																																																																																																																																																		
Roof Ceiling Assembly			0																																																																																																																																																																																																																		
Columns Supporting Roof			0																																																																																																																																																																																																																		
Shaft Enclosures - Exit			N/A																																																																																																																																																																																																																		
Shaft Enclosures - Other			N/A																																																																																																																																																																																																																		
Corridor Separation			0																																																																																																																																																																																																																		
Occupancy Fire Barrier Separation			0																																																																																																																																																																																																																		
Party/Fire Wall Separation			N/A																																																																																																																																																																																																																		
Smoke Barrier Separation			N/A																																																																																																																																																																																																																		
Smoke Partition			N/A																																																																																																																																																																																																																		
Tenant Dwelling Unit/ Sleeping Unit Separation			N/A																																																																																																																																																																																																																		
Incidental Use Separation			N/A																																																																																																																																																																																																																		
<p align="center">PERCENTAGE OF WALL OPENING CALCULATIONS</p> <table border="1"> <thead> <tr> <th>FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES</th> <th>DEGREE OF OPENINGS PROTECTION (TABLE 705.8)</th> <th>ALLOWABLE AREA (%)</th> <th>ACTUAL SHOWN ON PLANS (%)</th> </tr> </thead> <tbody> <tr> <td>>30</td> <td>UL, S</td> <td>NO LIMIT</td> <td>12.3</td> </tr> </tbody> </table>						FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)	>30	UL, S	NO LIMIT	12.3																																																																																																																																																																																																								
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)																																																																																																																																																																																																																		
>30	UL, S	NO LIMIT	12.3																																																																																																																																																																																																																		
<p align="center">ACCESSIBLE PARKING (SECTION 1106)</p> <table border="1"> <thead> <tr> <th>LOT OR PARKING AREA</th> <th>TOTAL # OF PARKING SPACES REQUIRED</th> <th># OF ACCESSIBLE SPACES PROVIDED</th> <th>90" SPACES</th> <th>132" SPACES</th> <th>TOTAL # ACCESSIBLE PROVIDED</th> </tr> </thead> <tbody> <tr> <td>TOTAL SITE</td> <td>151</td> <td>151</td> <td>10</td> <td>0</td> <td>10</td> </tr> <tr> <td>TOTAL</td> <td>151</td> <td>151</td> <td>10</td> <td>0</td> <td>10</td> </tr> </tbody> </table>						LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	90" SPACES	132" SPACES	TOTAL # ACCESSIBLE PROVIDED	TOTAL SITE	151	151	10	0	10	TOTAL	151	151	10	0	10																																																																																																																																																																																														
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	90" SPACES	132" SPACES	TOTAL # ACCESSIBLE PROVIDED																																																																																																																																																																																																																
TOTAL SITE	151	151	10	0	10																																																																																																																																																																																																																
TOTAL	151	151	10	0	10																																																																																																																																																																																																																
<p align="center">PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)</p> <table border="1"> <thead> <tr> <th rowspan="2">USE</th> <th colspan="3">WATER CLOSETS</th> <th colspan="3">URINALS</th> <th colspan="3">LAVATORIES</th> <th colspan="3">SHOWERS</th> <th colspan="3">DRINKING FOUNTAINS</th> </tr> <tr> <th>MALE</th> <th>FEMALE</th> <th>UNSEEN</th> <th>MALE</th> <th>FEMALE</th> <th>UNSEEN</th> <th>MALE</th> <th>FEMALE</th> <th>UNSEEN</th> <th>TUBS</th> <th>REGULAR</th> <th>ACCESSIBLE</th> <th>MALE</th> <th>FEMALE</th> <th>ACCESSIBLE</th> </tr> </thead> <tbody> <tr> <td>SPACE</td> <td>EXIST'G</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>NEW</td> <td>REQ'D</td> <td>2</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>						USE	WATER CLOSETS			URINALS			LAVATORIES			SHOWERS			DRINKING FOUNTAINS			MALE	FEMALE	UNSEEN	MALE	FEMALE	UNSEEN	MALE	FEMALE	UNSEEN	TUBS	REGULAR	ACCESSIBLE	MALE	FEMALE	ACCESSIBLE	SPACE	EXIST'G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NEW	REQ'D	2	2	0	0	2	2	0	0	2	1	1	0	0	0																																																																																																																																																	
USE	WATER CLOSETS			URINALS			LAVATORIES			SHOWERS			DRINKING FOUNTAINS																																																																																																																																																																																																								
	MALE	FEMALE	UNSEEN	MALE	FEMALE	UNSEEN	MALE	FEMALE	UNSEEN	TUBS	REGULAR	ACCESSIBLE	MALE	FEMALE	ACCESSIBLE																																																																																																																																																																																																						
SPACE	EXIST'G	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																						
NEW	REQ'D	2	2	0	0	2	2	0	0	2	1	1	0	0	0																																																																																																																																																																																																						
<p align="center">SPECIAL APPROVALS</p> <p>Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below) <u>SAMPSON CO. INSPECTIONS</u></p>																																																																																																																																																																																																																					

<p align="center">ENERGY REQUIREMENTS</p> <p>The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.</p> <p>Exempt Building: <u>No</u> Climate Zone: <u>3A</u> Method of Compliance: <u>Energy Code - Prescriptive</u> THERMAL ENVELOPE (Prescriptive method only)</p> <p>Roof/ceiling Assembly (each assembly) Description of assembly: <u>STANDING SEAM MTL. ROOF, 6" EXTRUDED POLYSTYRENE OVER 1/2" GLASS-MAT SHEATHING</u> U-Value of total assembly: <u>U-0.033</u> R-Value of insulation: <u>R-30CI PROVIDED, R-25CI MIN. REQUIRED</u> Skylights in each assembly: <u>N/A</u></p> <p>Exterior Walls #1 Description of assembly: <u>4" FACEBRICK, 2" AIR CAVITY, 1 1/2" RIGID INSULATION (R-8.75) (R-7.5 REQUIRED), BLDG PAPER, 5/8" GLASSMAT, 6" BLANKET INSULATION (R-19) (R-19 REQUIRED), 6" METAL STUDS, 5/8" GYP. BD. INTERIOR FINISH</u> U-Value of total assembly: <u>U-0.033</u> R-Value of insulation: <u>R-8.75-R-19</u></p> <p>Exterior Walls #2 Description of assembly: <u>METAL WALL PANELS, 1 1/2" RIGID INSULATION (R-8.75) (R-7.5 REQUIRED), BLDG PAPER, 5/8" GLASSMAT, 6" BLANKET INSULATION (R-19) (R-19 REQUIRED), 6" METAL STUDS, 5/8" GYP. BD. INTERIOR FINISH</u> U-Value of total assembly: <u>U-0.033</u> R-Value of insulation: <u>R-8.75-R-19</u></p> <table border="1"> <thead> <tr> <th></th> <th>EXTERIOR FRP DOOR</th> <th>ALUMINUM ENTRANCE</th> <th>CURTAINWALL</th> <th>WINDOWS</th> <th>KALWALL</th> </tr> </thead> <tbody> <tr> <td>U-Value of assembly</td> <td>0.125</td> <td>0.38</td> <td>0.38</td> <td>0.38</td> <td>0.32</td> </tr> <tr> <td>Solar heat gain coefficient</td> <td>N/A</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>Projection factor</td> <td>N/A</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Door R-Value</td> <td>8.0</td> <td>3.5</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Walls below grade (each assembly) - <u>N/A</u> Floors over unconditioned space (each assembly) - <u>N/A</u> Floors slab on grade Description of assembly: <u>4" OR 6" CONCRETE + VAPOR BARRIER + 4" POROUS FILL</u> R-Value of insulation: <u>R-7.5</u> Horizontal vertical requirement: <u>YES</u> slab heated: <u>NO</u></p>							EXTERIOR FRP DOOR	ALUMINUM ENTRANCE	CURTAINWALL	WINDOWS	KALWALL	U-Value of assembly	0.125	0.38	0.38	0.38	0.32	Solar heat gain coefficient	N/A	0.25	0.25	0.25	0.25	Projection factor	N/A	0	0	0	0	Door R-Value	8.0	3.5	N/A	N/A	N/A
	EXTERIOR FRP DOOR	ALUMINUM ENTRANCE	CURTAINWALL	WINDOWS	KALWALL																														
U-Value of assembly	0.125	0.38	0.38	0.38	0.32																														
Solar heat gain coefficient	N/A	0.25	0.25	0.25	0.25																														
Projection factor	N/A	0	0	0	0																														
Door R-Value	8.0	3.5	N/A	N/A	N/A																														
<p align="center">2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)</p> <p>DESIGN LOADS:</p> <p>Importance Factors: Snow (I_s) <u>1.0</u> Seismic (I_e) <u>1.0</u></p> <p>Live Loads: Roof <u>20 psf</u> Mezzanine <u>N/A psf</u> Floor <u>250 psf</u></p> <p>Ground Snow Load: <u>10 psf</u></p> <p>Wind Load: Ultimate Wind Speed <u>127 mph (ASCE-7)</u> Exposure Category <u>C</u></p> <p>SEISMIC DESIGN CATEGORY: <u>C</u> Provide the following Seismic Design Parameters: Occupancy Category (Table 1604.5): <u>II</u> Spectral Response Acceleration <u>S_s 19.4 %g</u> <u>S₁ 8.70 %g</u></p> <p>Site Classification (ASCE 7): <u>D</u> Data Source: <u>Field Test</u> Basic structural system: <u>Moment Frame</u> Analysis Procedure: <u>Equivalent Lateral Force</u> Architectural, Mechanical, Components anchored? <u>No</u></p> <p>LATERAL DESIGN CONTROL: <u>Wind</u> SOIL BEARING CAPACITIES: Field Test (provide copy of test report) <u>2000 psf</u></p>																																			

MATERIALS KEYING LEGEND		
GENERAL NOTES		
KEY PLAN		
NO	REVISION	DATE
		
<h1>J K F</h1> <p>ARCHITECTURE</p>		
<p>825 LYNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1068</p>		
<p>STAR COMMUNICATIONS NEW OPERATIONS BUILDING CLINTON, NC</p>		
<p>DRAWING TITLE LIFE SAFETY PLAN, BUILDING CODE ANALYSIS, LEGENDS, SYMBOLS, ABBREVIATIONS</p>		
SCALE	AS NOTED	
DRAWN	MCZ	
CHECKED	JKF	
DATE	7-15-2023	
PROJECT NO.	2022-17	
<p>LIFE SAFETY PLAN 1/16" = 1'-0" A15</p>		
<p>© COPYRIGHT, JKF ARCHITECTURE PC, JOHN K. FARKAS, AIA</p>		





MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

JOHN K. FARKAS
REGISTERED ARCHITECT
5822
GREENVILLE, NC

JKF

ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

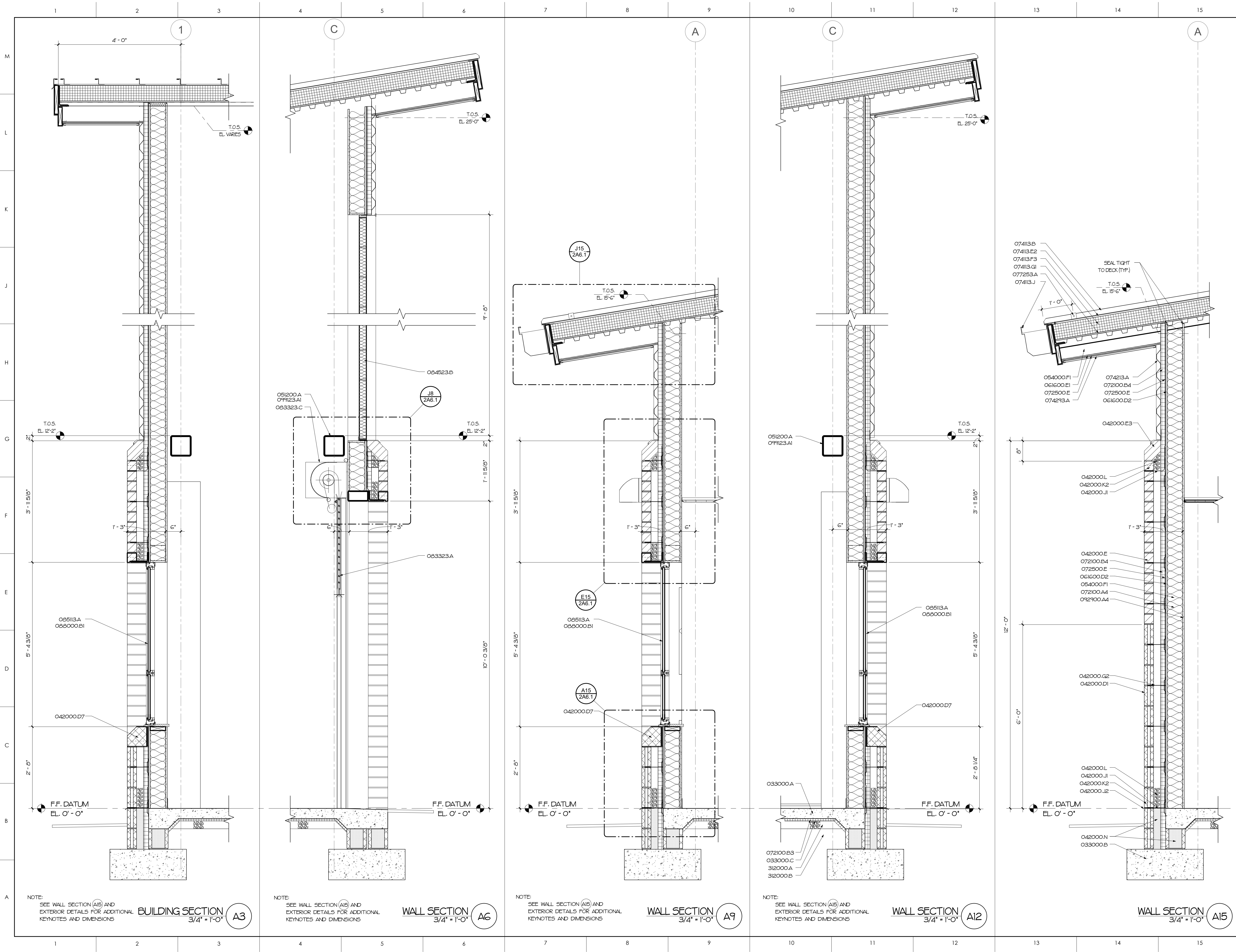
**STAR COMMUNICATIONS
NEW OPERATIONS BUILDING
CLINTON, NC**

DRAWING TITLE
BUILDING SECTIONS

SCALE	1/8" = 1'-0"
DRAWN	MCZ
CHECKED	JKF
DATE	7-15-2023
PROJECT NO.	2022-17

2A2.2

© COPYRIGHT, JKF ARCHITECTURE PC, JOHN K. FARKAS, AIA



MATERIALS KEYING LEGEND

033000.A	CONCRETE SLAB ON GRADE. SEE STRUCTURAL
033000.B	CONCRETE FOOTING. SEE STRUCTURAL
033000.C	VAPOR BARRIER
042000.D1	CONCRETE MASONRY UNIT, DECORATIVE
042000.D7	CONCRETE MASONRY UNIT, DECORATIVE, SPECIAL SHAPE SILL
042000.E	FACE BRICK
042000.E3	FACE BRICK, SILL, SPECIAL SHAPE
042000.G2	ADJ. BRICK TIES AT 16" OC VERT., 24" OC HORIZ.
042000.J1	THRU-WALL FABRIC FLASHING
042000.J2	METAL DRIP FLASHING
042000.K2	WEEP SLOTS AT 16" O.C.
042000.L	CAVITY DRAINAGE MATERIAL
042000.N	GROUT SOLID
051200.A	STRUCTURAL STEEL. SEE STRUCTURAL DRAWINGS
054000.F1	COLD FORMED METAL FRAMING, 6" STUD AT 16" O.C.
061600.D2	GLASS-MAT GYPSUM SHEATHING, 5/8" THICK
061600.E1	PLYWOOD ROOF SHEATHING, 1/2" THICK
072100.A4	R-19 BATT INSULATION
072100.B3	1 1/2" RIGID INSULATION
072100.B4	2" RIGID INSULATION
072500.E	BUILDING WRAP
074113.B	METAL ROOF, STANDING SEAM
074113.E2	SELF-ADHERING SHEET
074113.F3	RIGID INSULATION, 6" THICK
074113.F3	GLASS-MAT GYP. SHEATHING, 1/2" THICK
074113.J	METAL GUTTER
074213.A	METAL WALL PANEL
074213.A	METAL SOFFIT PANELS
077253.A	SNOW GUARD
083323.A	OVER-HEAD COILING DOOR
083323.C	OVER-HEAD COILING DOOR, METAL HOUSING
084523.B	FIBERGLASS-SANDWICH PANEL ASSEMBLY, 2-3/4" THICK
085113.A	ALUMINUM WINDOW ASSEMBLY
088000.B1	1" INSULATING GLASS-LCW E
092900.A4	5/8" GYPSUM WALLBOARD
09123.A1	PAINT FINISH, INTERIOR SYSTEM
312000.A	POROUS FILL
312000.B	COMPACTED FILL

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

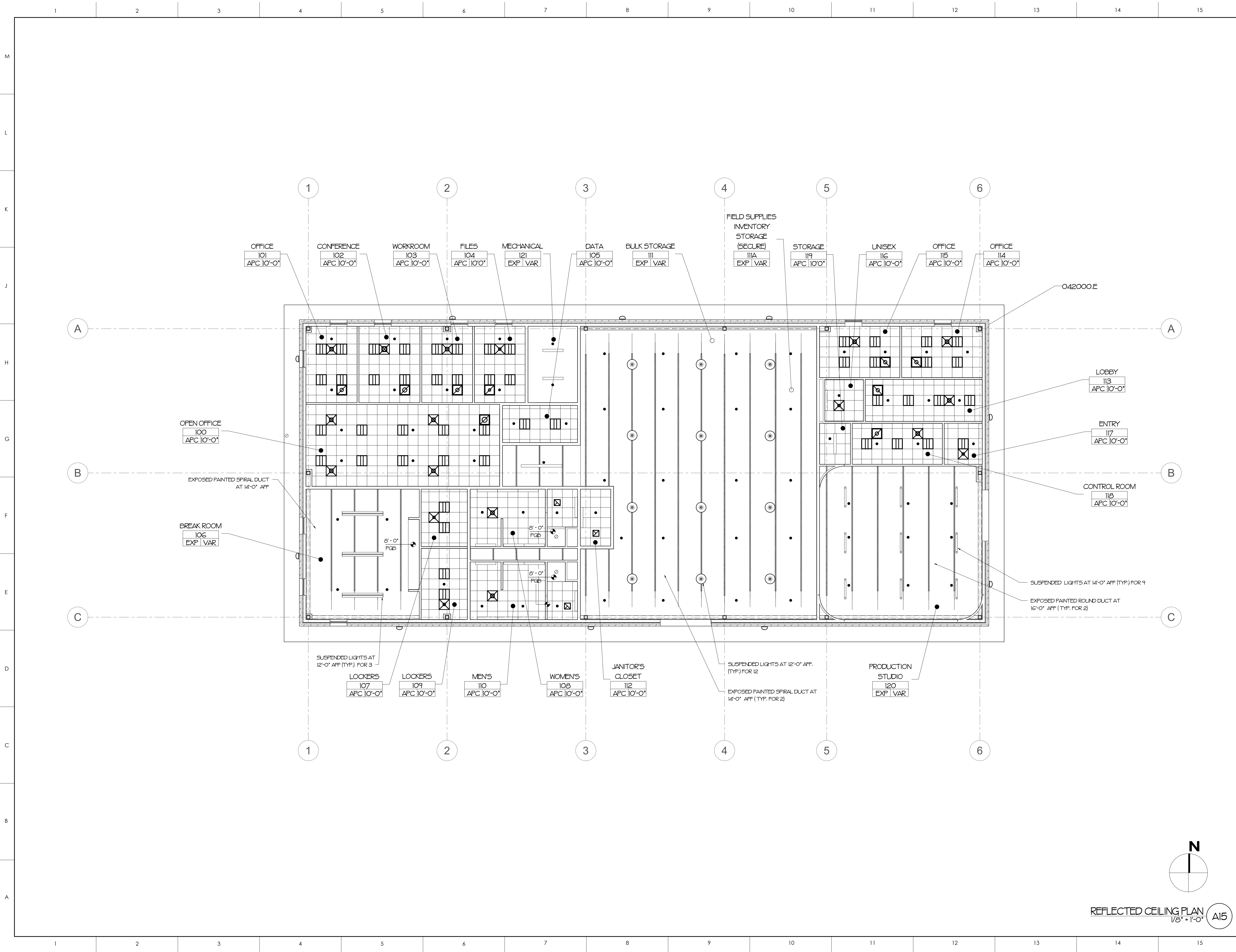
JOHN K. FARKAS ARCHITECTURE
 625 LYNDALE CT., SUITE F, GREENVILLE, NC 27638 252-355-1068
JKF
 ARCHITECTURE

STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

WALL SECTIONS

SCALE	3/4" = 1'-0"
DRAWN	MCZ
CHECKED	JKF
DATE	7-15-2023
PROJECT NO.	2022-17

2A3.1




MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

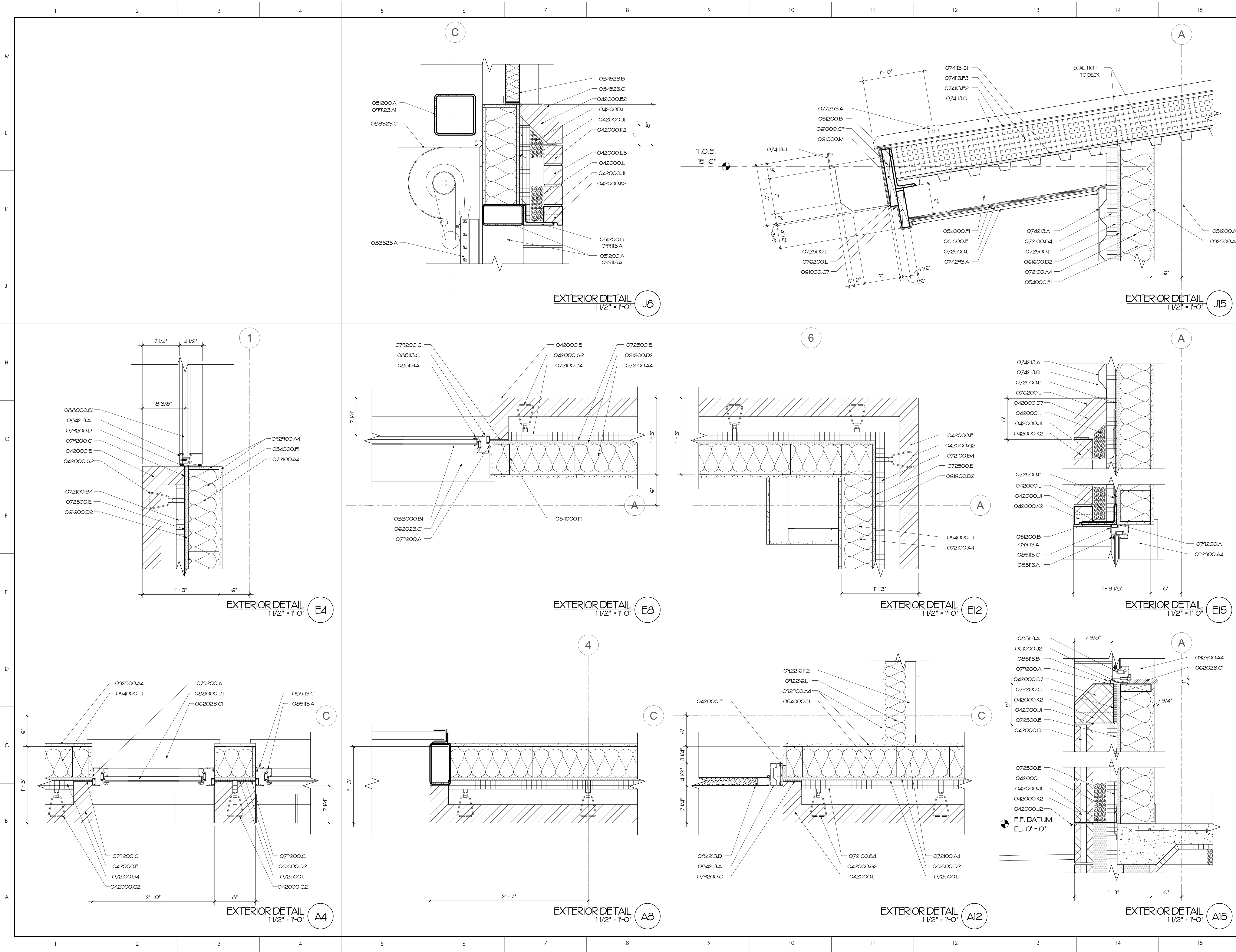

J K F
 ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
REFLECTED CEILING PLAN

SCALE	1/8" = 1'-0"	2A5.1
DRAWN	BTP	
CHECKED	JKF	
DATE	7-15-2023	
PROJECT NO.	2022-17	



MATERIALS KEYING LEGEND

042000.D1	CONCRETE MASONRY UNIT, DECORATIVE 4"
042000.D7	CONCRETE MASONRY UNIT, DECORATIVE, SPECIAL SHAPE SILL
042000.E	FACE BRICK
042000.E2	FACE BRICK, SPECIAL SHAPE
042000.E3	FACE BRICK, SILL, SPECIAL SHAPE
042000.G2	ADJ. BRICK TIES AT 16" OC VERT., 24" OC HORIZ.
042000.J1	THRU-WALL FABRIC FLASHING
042000.J2	METAL DRIP FLASHING
042000.K2	WEEP SLOTS AT 16" O.C.
042000.L	CAVITY DRAINAGE MATERIAL
051200	STRUCTURAL STEEL FRAMING
051200.A	STRUCTURAL STEEL, SEE STRUCTURAL DRAWINGS
051200.B	STEEL ANGLE, SIZE AS INDICATED
054000.F1	COLD FORMED METAL FRAMING, 6" STUD AT 16" O.C.
061000.C7	TREATED 2X6
061000.C9	TREATED 2X12
061000.J2	WOOD BLOCKING, PRESSURE TREATED
061000.M	1/2" DIA. BOLT COUNTERSUNK AT 16" O.C. STAGGERED
061600.D2	GLASS-MAT GYPSUM SHEATHING, 5/8" THICK
061600.E1	PLYWOOD ROOF SHEATHING, 1/2" THICK
062023.C1	INTERIOR WOOD TRIM WINDOW SILL, TRANSPARENT FINISH
072100.A4	R-FIB BATT INSULATION
072100.B4	2" RIGID INSULATION
072500.E	BUILDING WRAP
07413.B	METAL ROOF, STANDING SEAM
07413.E2	SELF ADHERING SHEET
07413.F3	RIGID INSULATION, 6" THICK
07413.G1	GLASS-MAT GYP. SHEATHING, 1/2" THICK
07413.J	METAL GLITTER
074213.A	METAL WALL PANEL
074213.D	METAL CLOSURE TRIM
074213.A	METAL SOFFIT PANELS
076200.J	METAL SILL PAN
076200.L	METAL FASCIA
077253.A	SNOW GUARD
079200.A	SEALANT
079200.C	COMPRESSIBLE SEALER W/ADHESIVE
079200.D	BACKER ROD AND SEALANT
083323.A	OVER-HEAD COILING DOOR, METAL HOUSING
084213.A	STOREFRONT FRAMING, THERMALLY BROKEN
084213.D	ALUMINUM FRP DOOR
084523.B	FIBERGLASS-SANDWICH PANEL ASSEMBLY, 2-3/4" THICK
084523.C	METAL SILL PAN
085113.A	ALUMINUM WINDOW ASSEMBLY
085113.B	METAL SILL PAN
085113.C	METAL SUB FRAME
088000.B1	1" INSULATING GLASS-LOW E
092216.C2	2 1/2" METAL STUDS AT 16" OC
092216.D2	3 5/8" METAL STUDS AT 16" OC
092216.F2	6" METAL STUDS AT 16" OC
092216.L	ACOUSTICAL BLANKET, THICKNESS AS NOTED IN PARTITION TYPES
092900.A4	5/8" GYPSUM WALLBOARD
099113.A	PAINT FINISH, EXTERIOR SYSTEM
099123.A1	PAINT FINISH, INTERIOR SYSTEM

NO	REVISION	DATE

JK F
ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

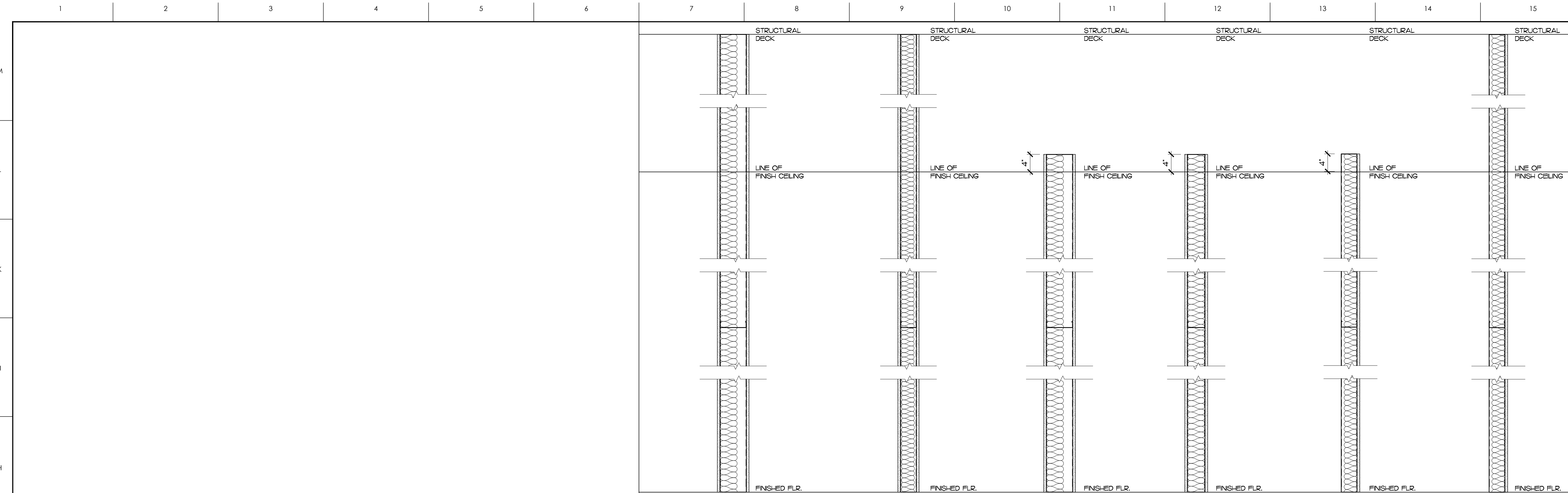
STAR COMMUNICATIONS
NEW OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
EXTERIOR DETAILS

SCALE	1 1/2" = 1'-0"
DRAWN	MCZ
CHECKED	JKF
DATE	7-15-2023
PROJECT NO.	2022-17

2A6.1

© COPYRIGHT, JK F ARCHITECTURE PC, JOHN K. FARKAS, AIA



MATERIALS KEYING LEGEND

- O61600.A3- PLYWOOD SHEATHING, 3/4" THICK
- O641 I6.A - PLASTIC LAMINATE CABINETS
- O641 I6.B - PLASTIC LAMINATE, 3/4" THICK
- O64216.D - 1X WOOD TRIM
- O64600.A - WOOD BENCH
- O79200.A - SEALANT
- O88300.A1 - 1/4" GLASS MIRROR
- I05123.A - PLASTIC LAMINATE-CLAD LOCKERS, 2-TIERED, 6H X 12"W
- I23661A - SIMULATED STONE COUNTERTOP
- I23661C - SIMULATED STONE BACKSPLASH
- 260000.B - INTERIOR LIGHT FIXTURE

GENERAL NOTES

- PROVIDE MOISTURE-RESISTANT GYPSUM BOARD IN ALL TOILET ROOMS, JANITORS CLOSETS, MECHANICAL ROOMS & WET AREAS IN LIEU OF GYPSUM BOARD INDICATED IN PARTITION TYPES.
- PROVIDE CEMENTIOUS TILE BACKING PANEL IN LIEU OF GYPSUM BOARD WHERE CERAMIC WALL TILE IS SCHEDULED.

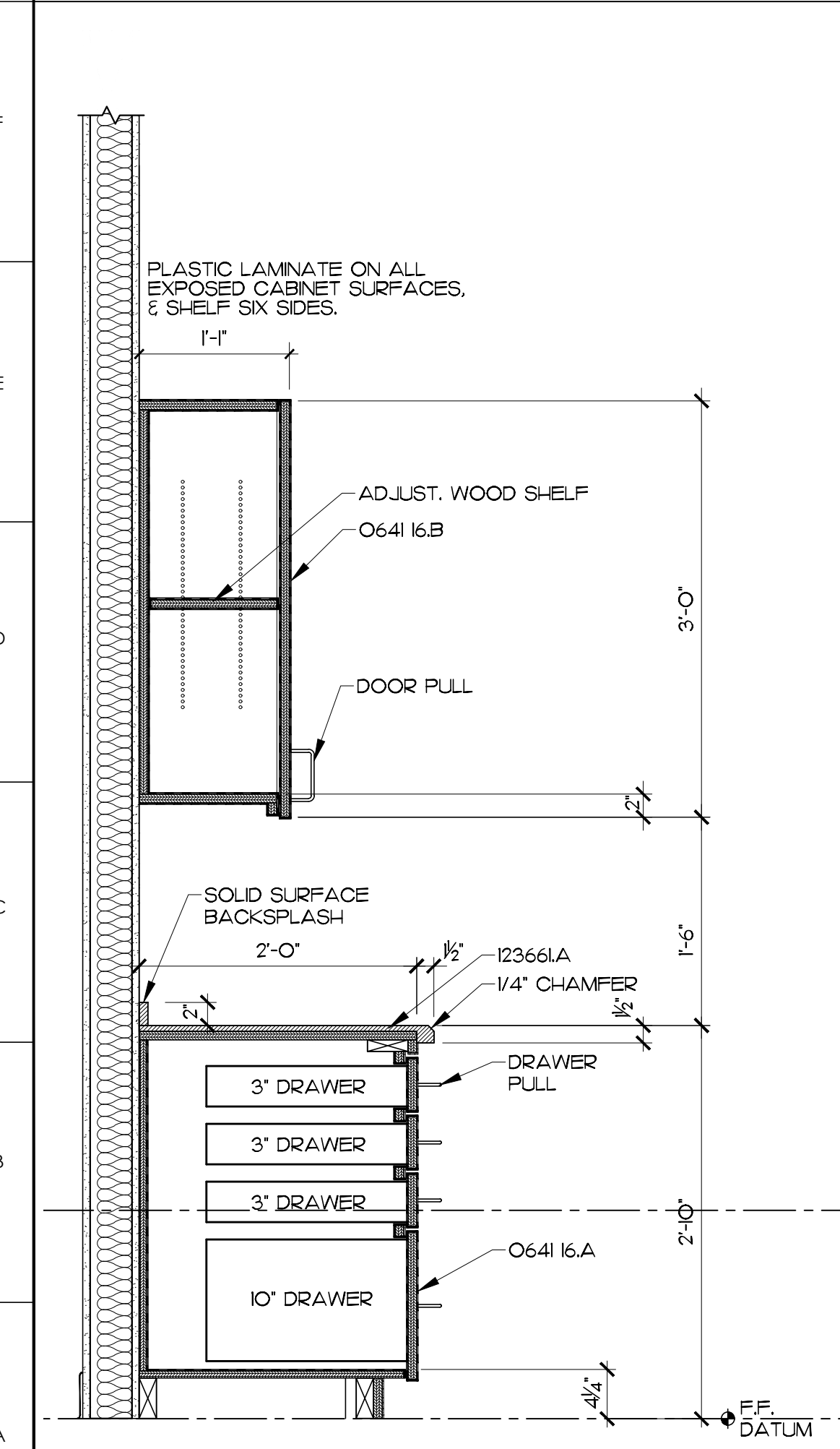
PARTITION TYPES BY SYSTEM

0-9	CMU
10-19	METAL STUD/ SINGLE LAYER GYPSUM
20-29	METAL STUD/ DOUBLE LAYER GYPSUM
30-39	METAL STUD/ TRIPLE LAYER GYPSUM
40-49	METAL STUD/ SHAFTWALL/ CHASE
50-59	METAL FURRED/ ONE-SIDED GYPSUM
60-69	WOOD STUD/ SINGLE LAYER GYPSUM

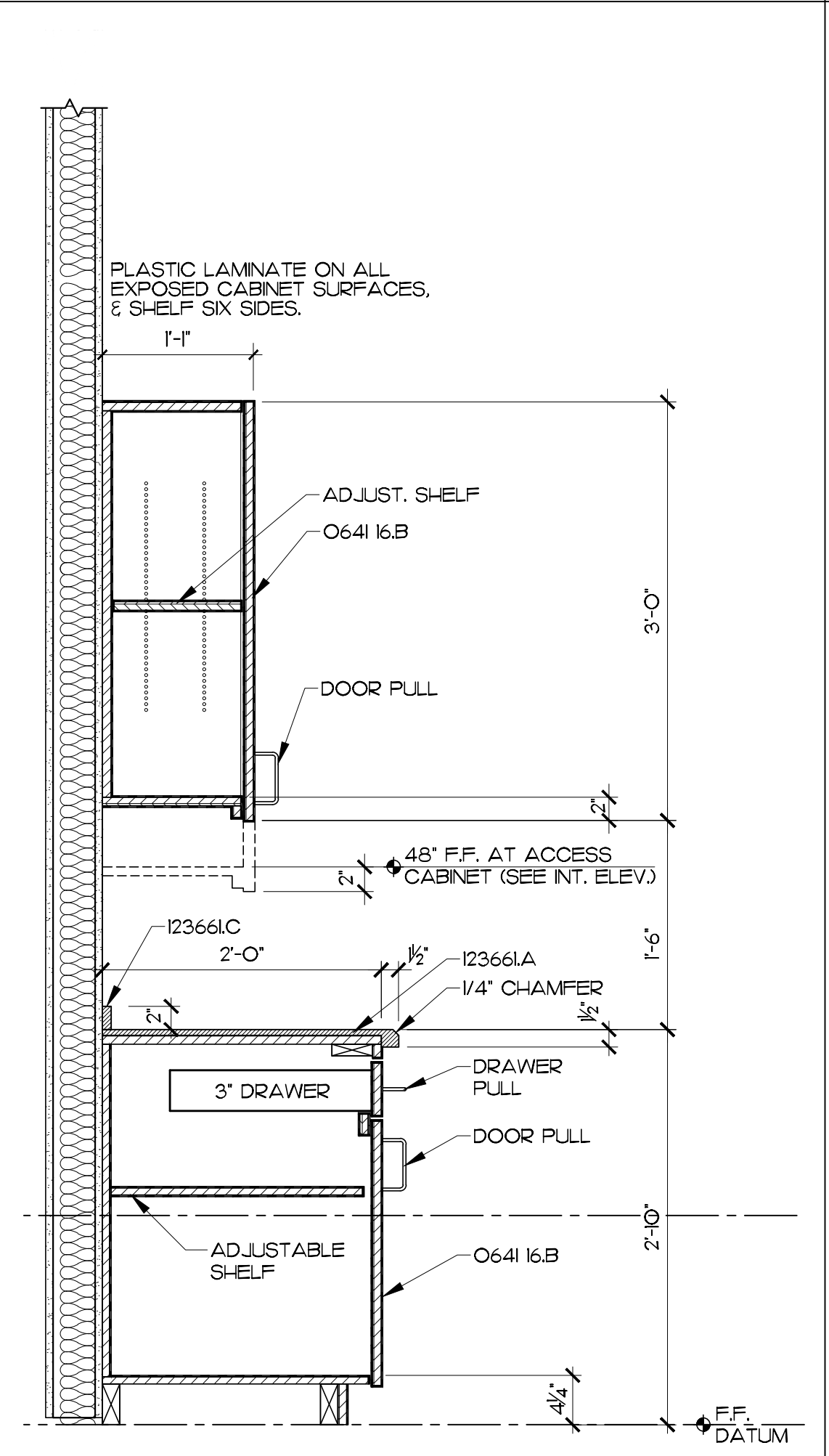
FIRE RATINGS (TYPE AS INDICATED ON FLOOR PLANS)

S	SMOKE BARRIER
X	1-HOUR FIRE PARTITION OR FIRE BARRIER
Y	2-HOUR FIRE BARRIER
Z	3-HOUR FIRE BARRIER

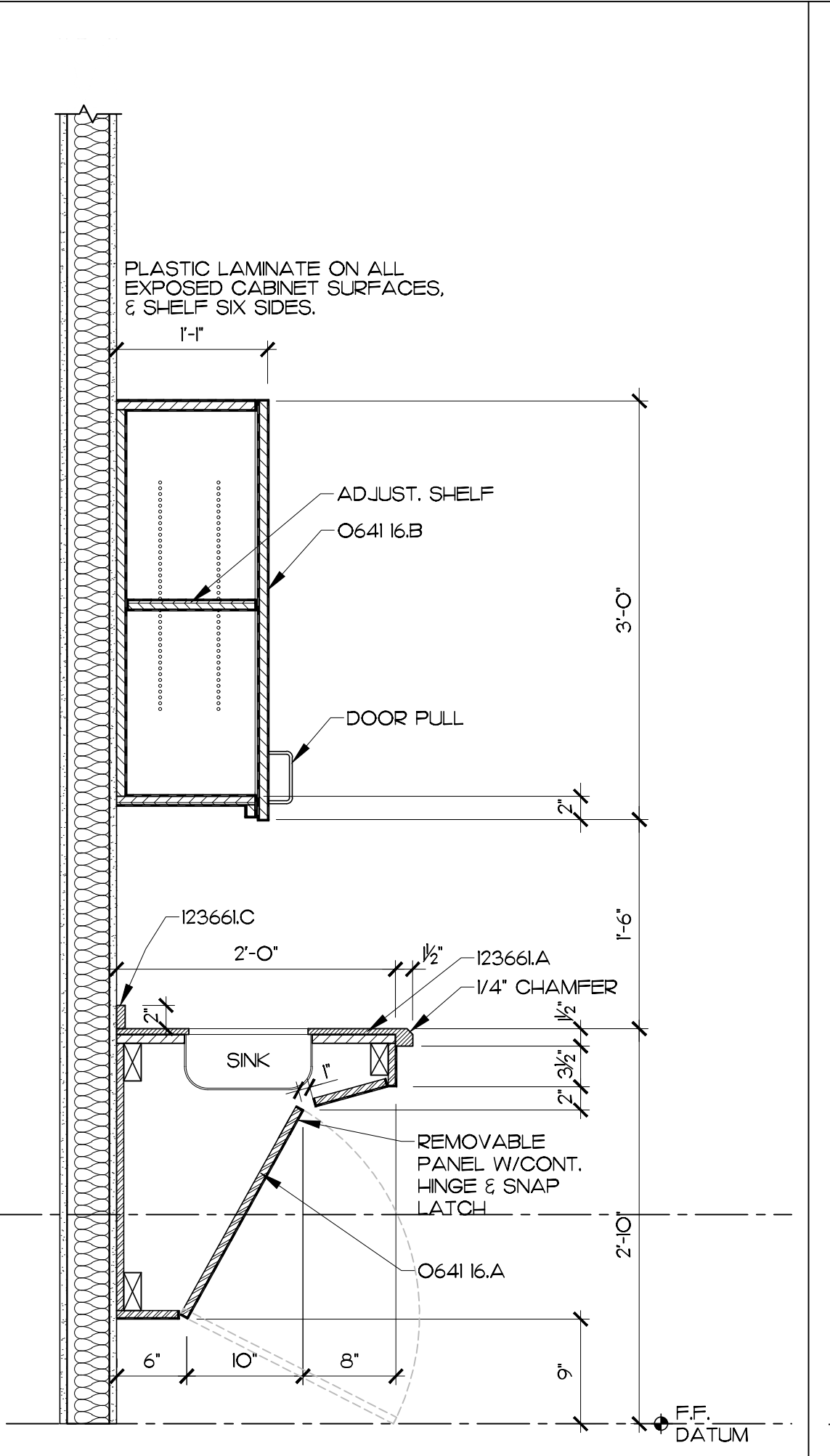
WALL TYPES G15
1" = 1'-0"



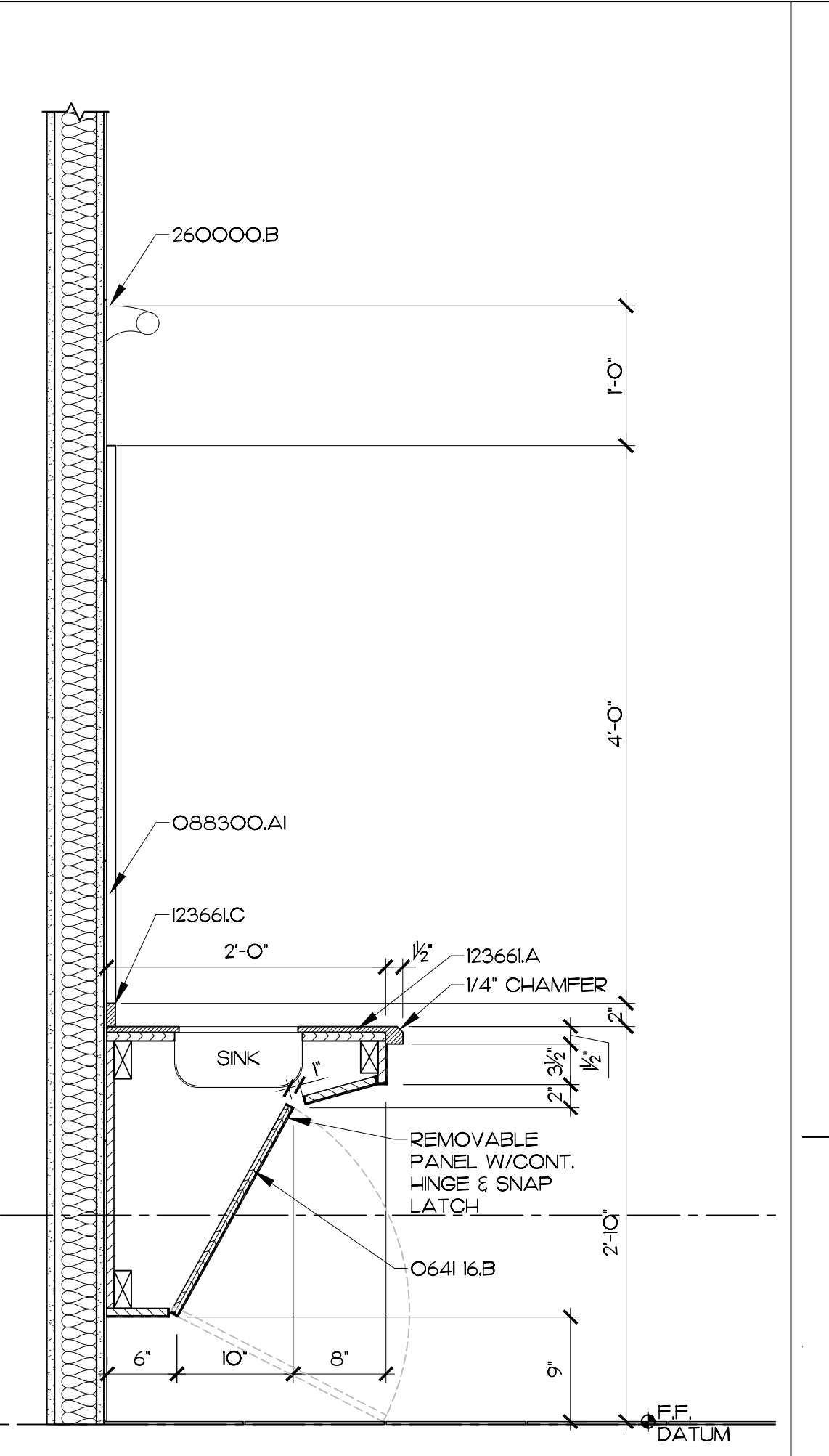
CASEWORK SECTION A3
1" = 1'-0"



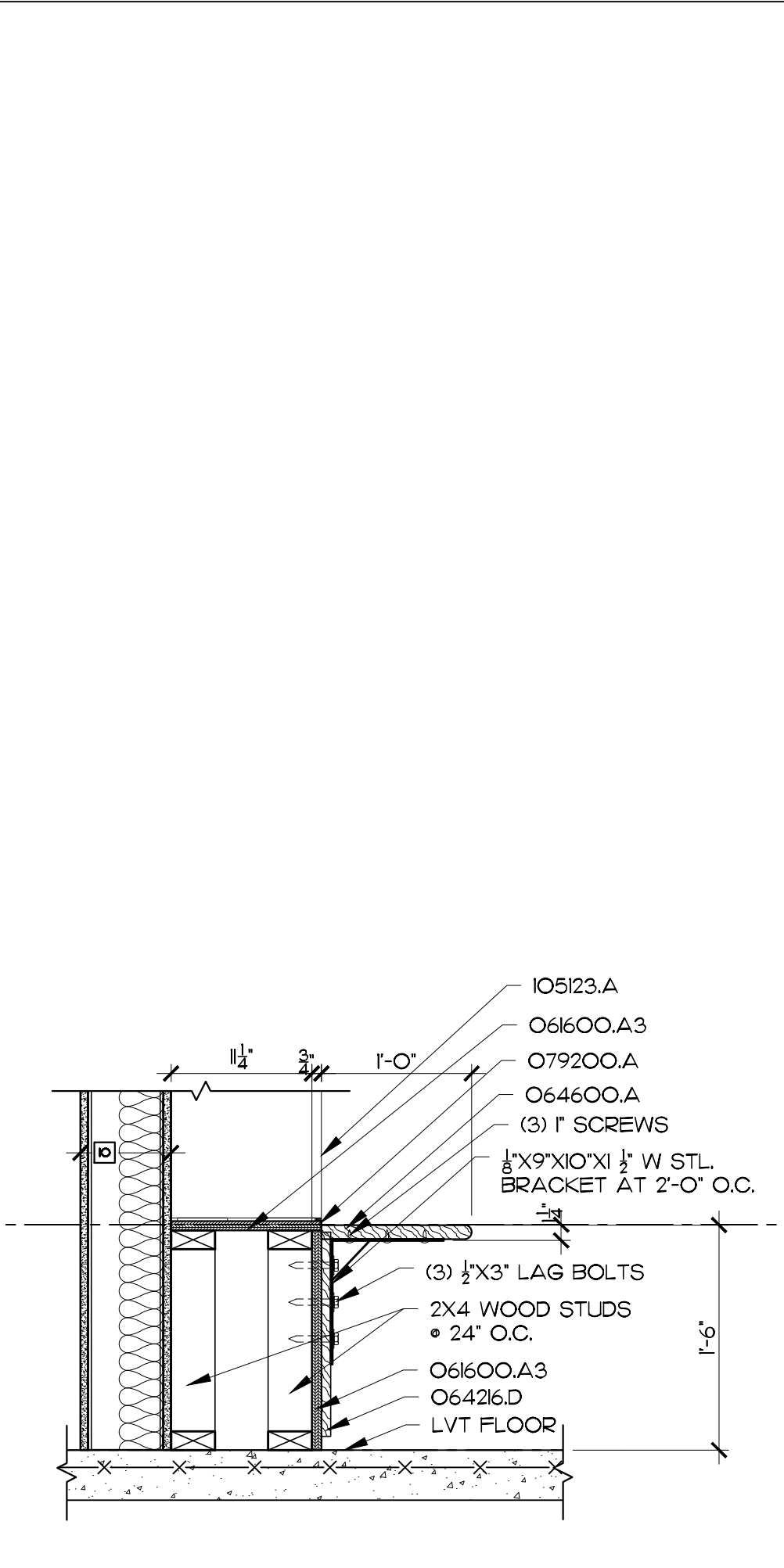
CASEWORK SECTION A6
1" = 1'-0"



CASEWORK SECTION A9
1" = 1'-0"



CASEWORK SECTION A12
1" = 1'-0"



LOCKER BENCH DETAIL A15
1" = 1'-0"

KEY PLAN

NO	REVISION	DATE

JOHN K. FARKAS
REGISTERED ARCHITECT
5322
CLINTON, NC

J K F
ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1048

STAR COMMUNICATIONS
NEW OPERATIONS BUILDING
CLINTON, NC

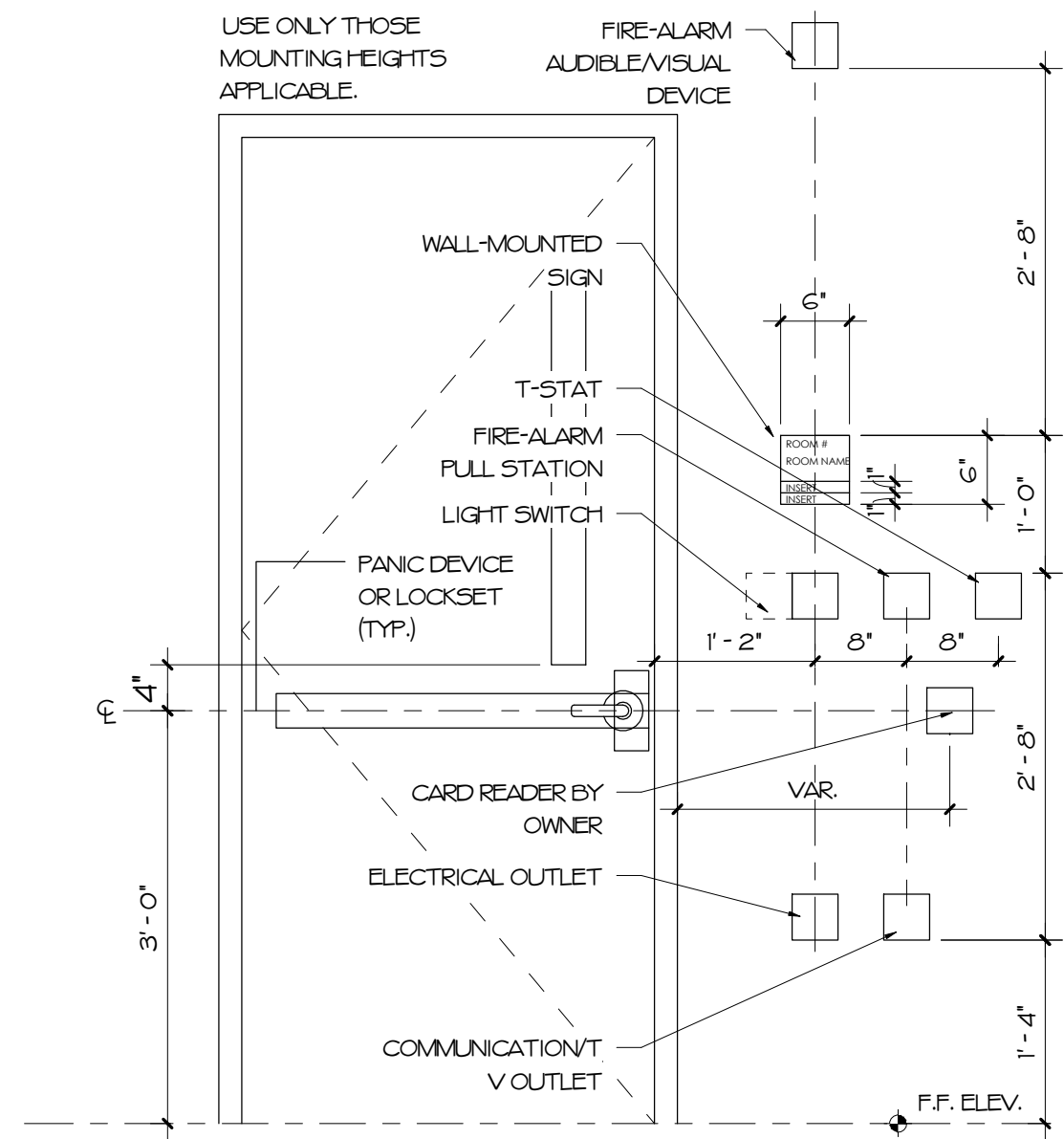
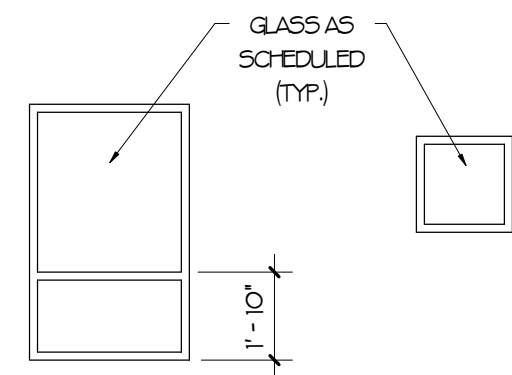
DRAWING TITLE
WALL TYPES AND INTERIOR DETAILS

SCALE	1" = 1'-0"	DRAWING NO.	2A7.1
DRAWN	MBD		
CHECKED	JKF		
DATE	7-15-2023		
PROJECT NO.	2022-17		

WINDOW SCHEDULE

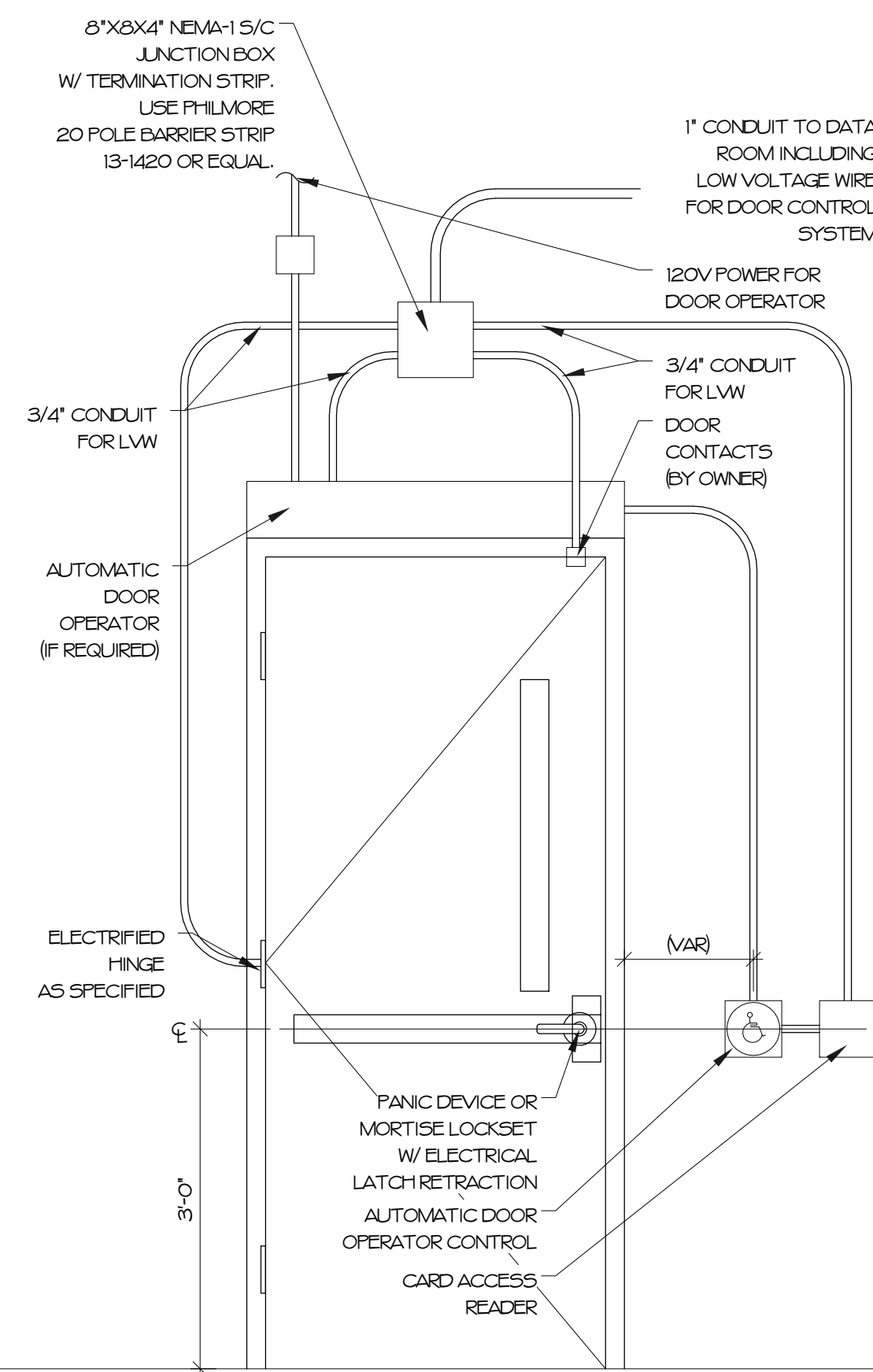
WINDOW GROUP NO.	WINDOW UNIT SIZE (W X H)	WINDOW TYPE	MATERIAL	FINISH	FRAME ELEVATION	FRAME SIZE	DETAILS			GLASS	FIRE RATING (HRS.)	REMARKS
							J	H	S			
W1	3'-4" X 5'-4"	ALUMINUM FIXED	AL	AN	W1	3 1/4" DEEP	E6 2AG.1	E15 2AG.1	A15 2AG.1	1" LOW-E TEMP.	-	
W2	2'-0" X 2'-0"	ALUMINUM FIXED	AL	AN	W2	3 1/4" DEEP	E6 2AG.1	E15 2AG.1	A15 2AG.1	1" LOW-E TEMP.	-	

WINDOW TYPES

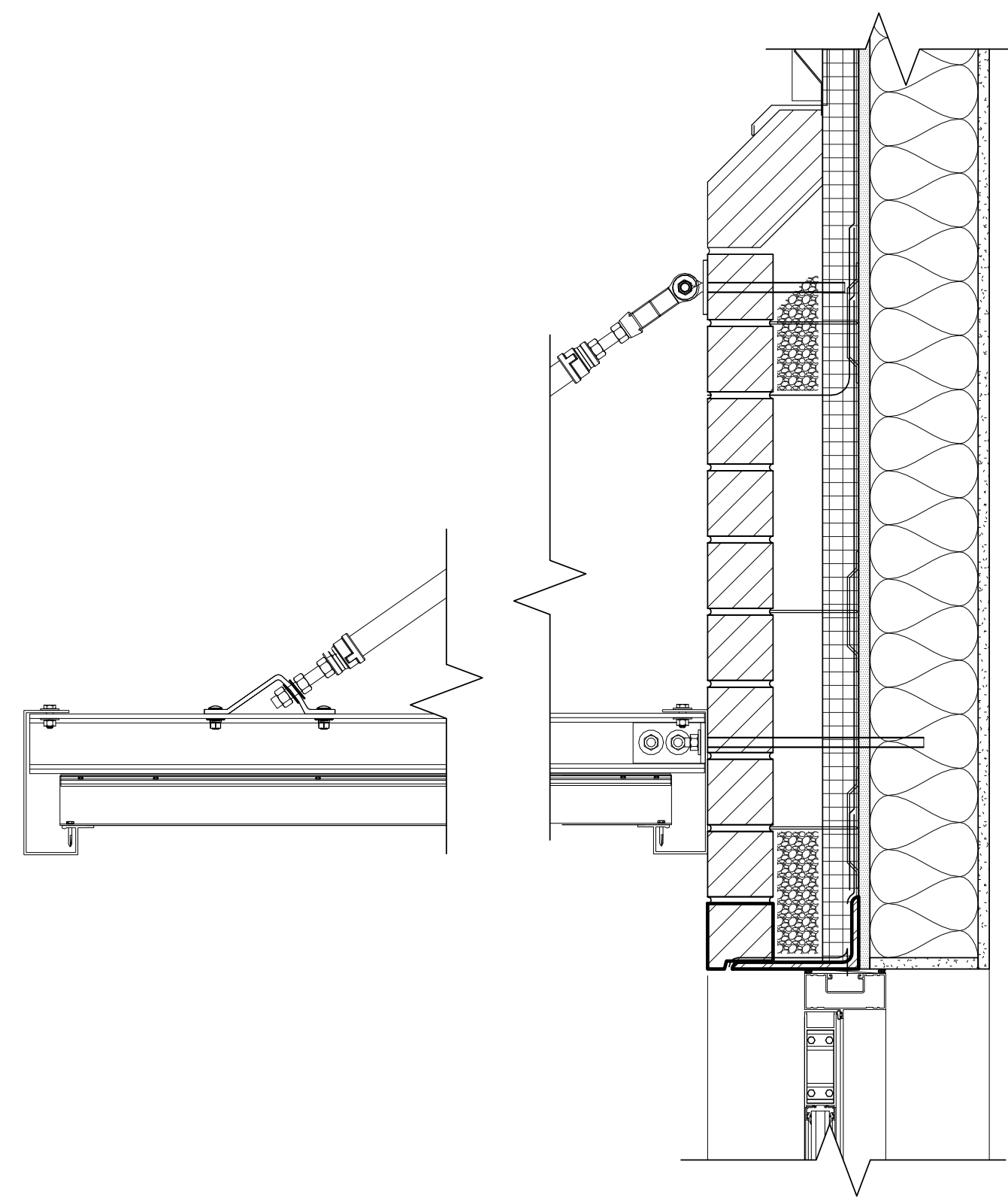


TYP. MOUNTING HEIGHT 3/4" = 1'-0" (F7)

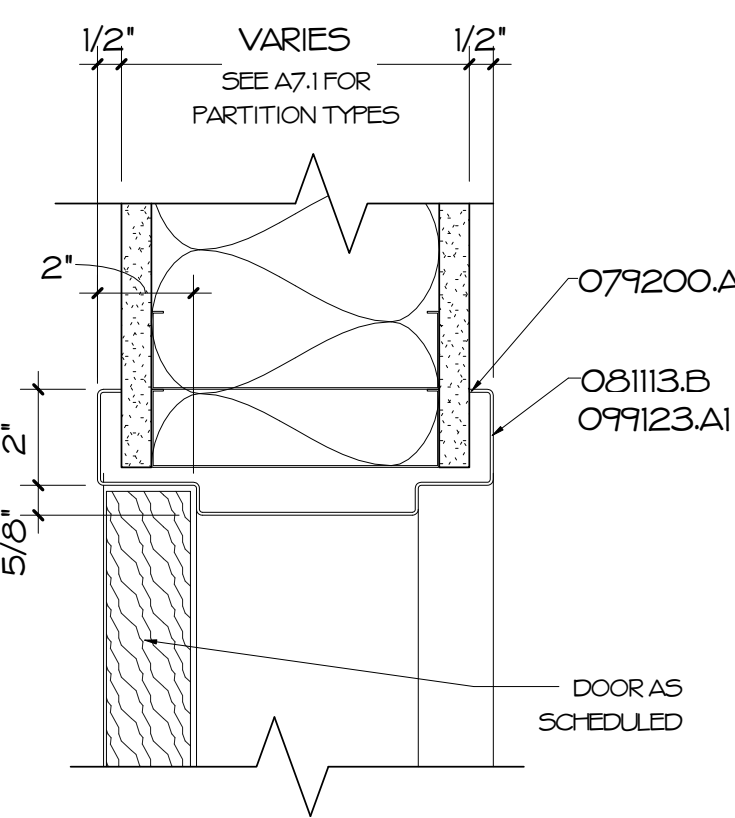
NOTES:
1. ALL CONDUIT 3/4" UNO.
2. LVW LOW VOLTAGE WIRE



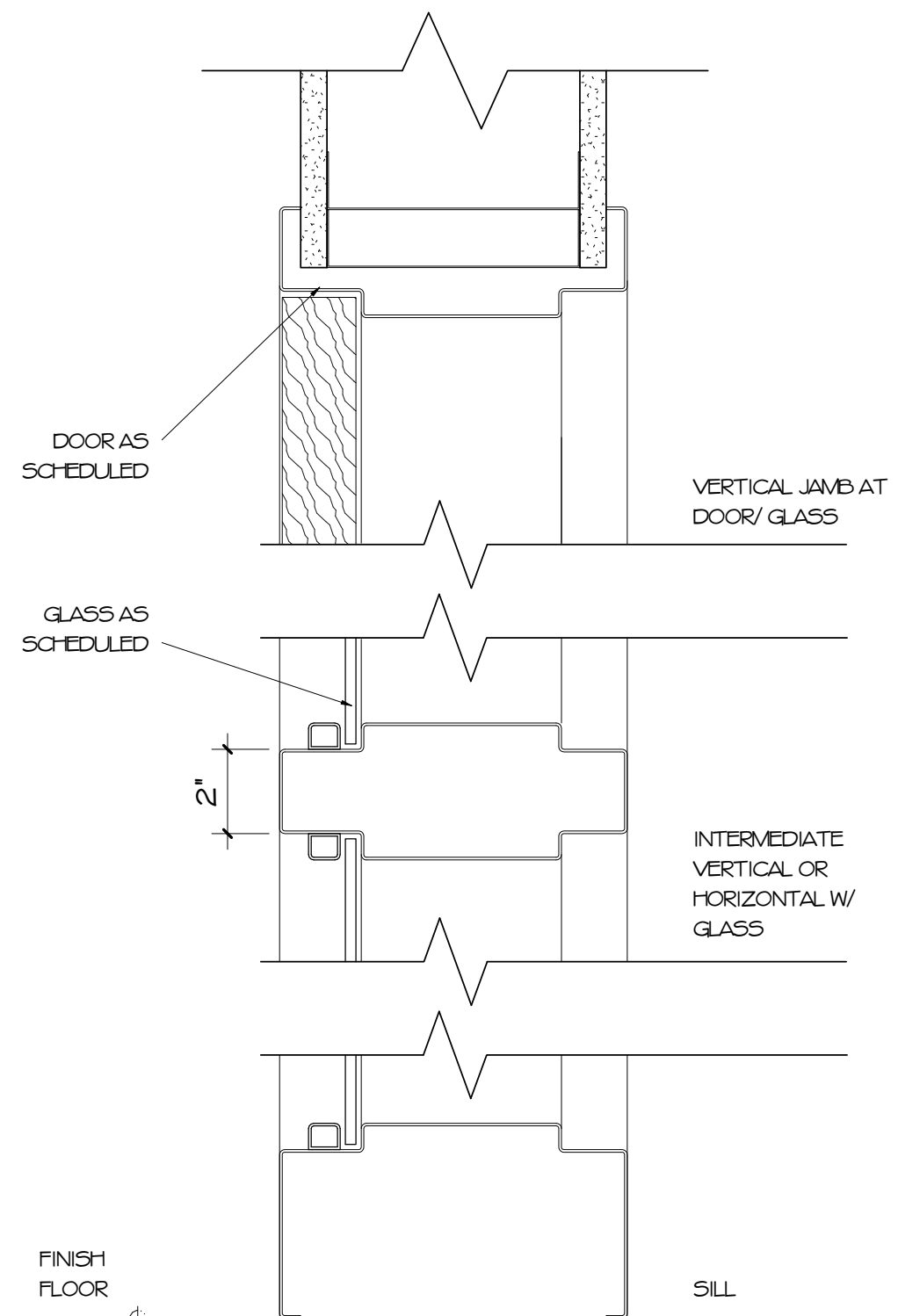
SECURE SINGLE DOOR DETAIL 3/4" = 1'-0" (A3)



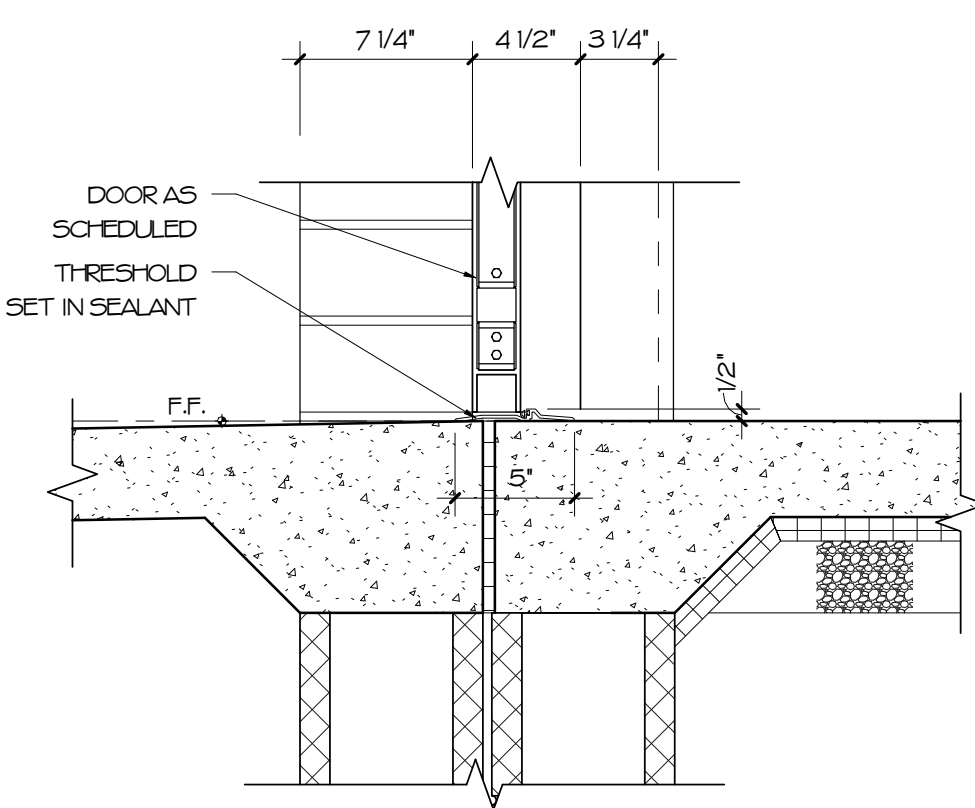
CANOPY / HEAD DETAIL 1/2" = 1'-0" (A7)



TYP. HEAD/JAMB DETAIL 3" = 1'-0" (J10)



HEAD, JAMB, SILL DETAIL 3" = 1'-0" (D10)

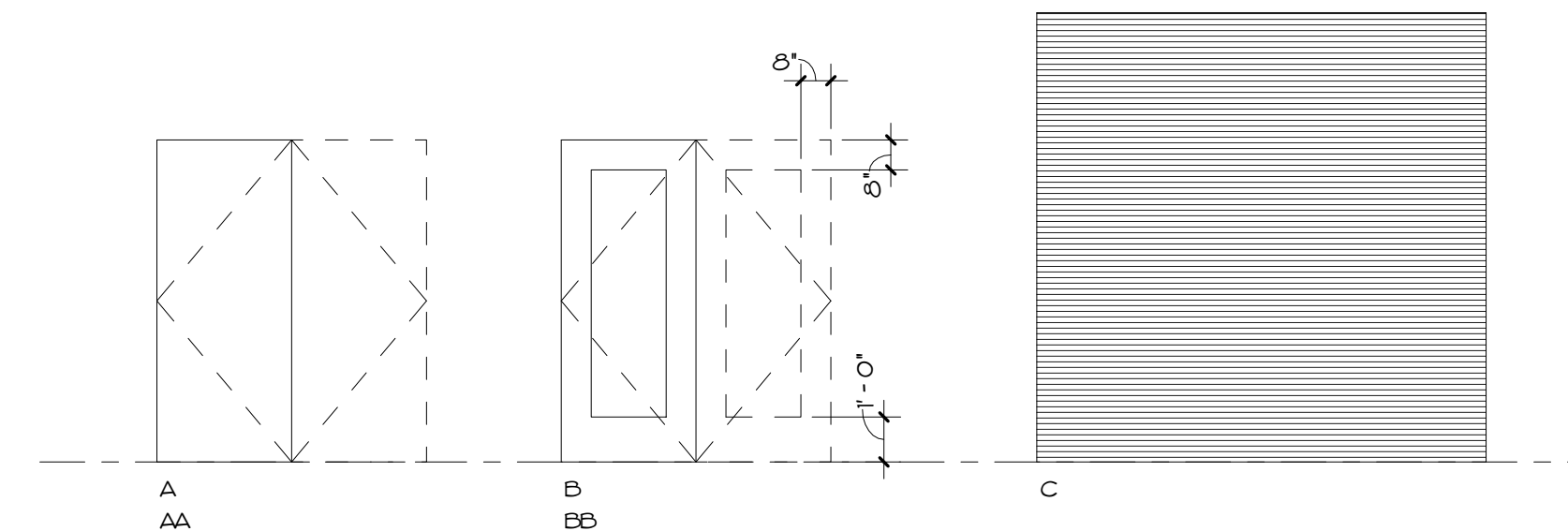


SILL DETAIL 1/2" = 1'-0" (A10)

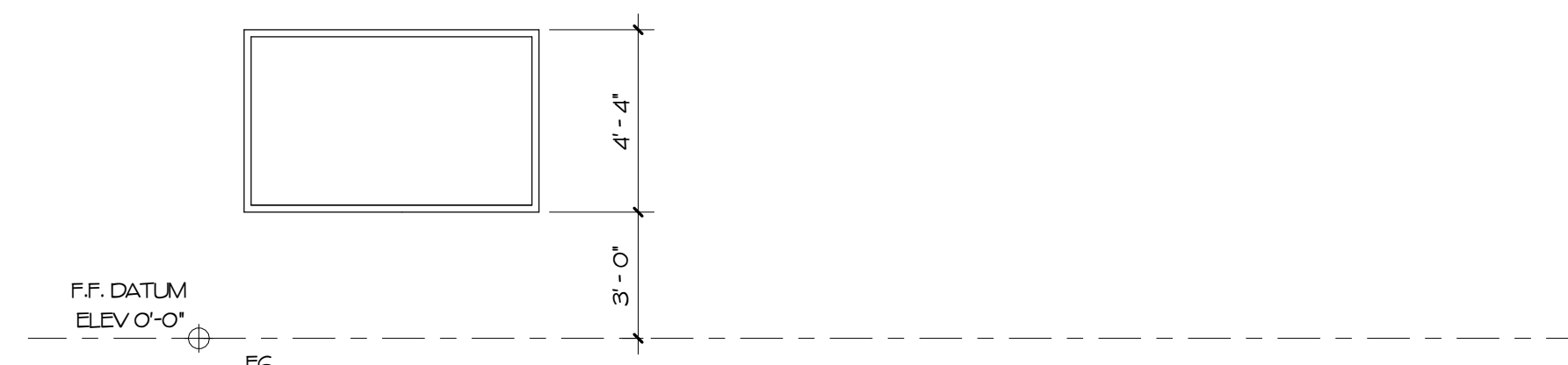
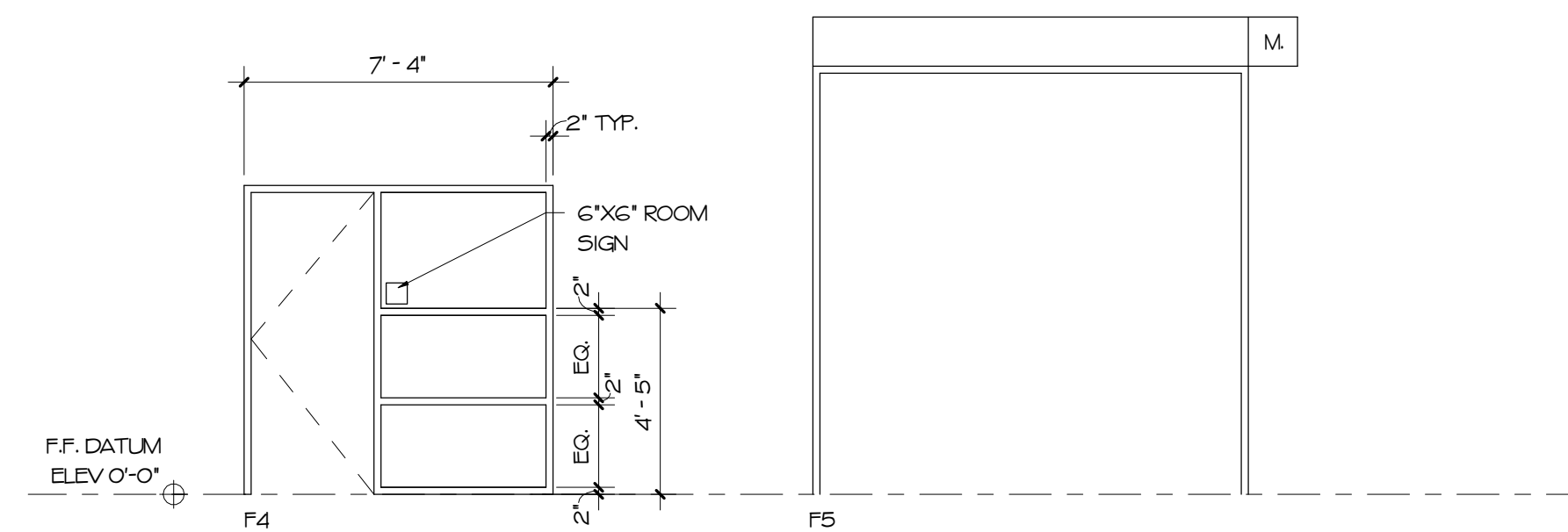
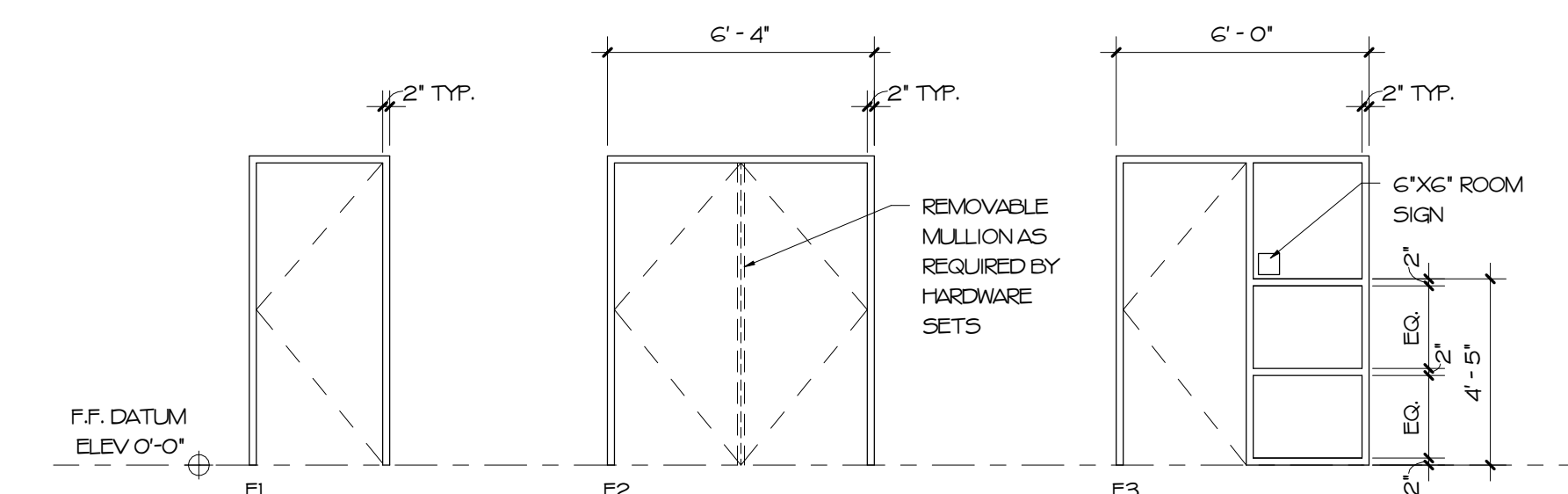
DOOR SCHEDULE

DOOR GROUP NO.	SIZE (W X H)	DOOR					FRAME					GLASS	FIRE RATING (HRS.)	REMARKS		
		DOOR TYPE	THICKNESS (1 3/4" UNO.)	MATERIAL	FINISH	FRAME ELEVATION	MATERIAL	FINISH	DETAILS							
		J	H	S												
1	3'-0" X 7'-2"	B	1-3/4"	AL	AN	F4	AL	AN	E4 2AG.1	A7	A10	SM TO	SM TO	SM TO	1" LOW-E TEMP.	-
2	3'-0" X 7'-2"	A	1-3/4"	AL	FRP	F1	AL	AN	A12 2AG.1	A7	A10	SM TO	SM TO	SM TO	-	-
3	2 (3'-0" X 7'-2")	AA	1-3/4"	AL	FRP	F2	AL	AN	A12 2AG.1	A7	A10	SM TO	SM TO	SM TO	-	-
4	3'-0" X 7'-2"	B	1-3/4"	SWC	TF	F3	HM	F	D10	D10	D10	-	-	-	1/4" TEMP.	-
5	3'-0" X 7'-2"	A	1-3/4"	SWC	TF	F1	HM	P	J10	J10	-	-	-	-	-	-
6	3'-0" X 7'-2"	B	1-3/4"	SWC	TF	F1	HM	P	J10	J10	-	-	-	1/4" TEMP. PROTECTED	-	-
7	3'-0" X 7'-2"	B	1-3/4"	AL	AL	F1	AL	AN	E4 2AG.1	A7	A10	SM TO	SM TO	SM TO	1" LOW-E TEMP.	-
8	10'-0" X 10'-0"	C	1-3/4"	SS	SS	F5	SS	SS	A8 2AG.1	J8 2AG.1	A8 2A3.1	SM TO	SM TO	SM TO	-	PROVIDE ELECTRICALLY OPERATED OVERHEAD COILING DOOR
9	4'-4" X 7'-0"	-	-	-	-	F6	HM	P	D10	D10	D10	SM TO	SM TO	SM TO	1/4" TEMP.	-

DOOR TYPES



FRAME TYPES



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

JOHN K. FARKAS
REGISTERED ARCHITECT
915/202-5922
FARMVILLE, NC

JKF

ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
DOOR AND WINDOW SCHEDULE

SCALE	As indicated
DRAWN	MBD, BTP
CHECKED	JKF
DATE	7-15-2023
PROJECT NO.	2022-17

2A8.1

GENERAL NOTES:



MATERIALS KEYING LEGEND

GENERAL NOTES:

- ALL WORK MUST COMPLY WITH THE CODES LISTED BELOW AND IN THE SPECIFICATIONS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION, AS ADOPTED BY THE 2018 NORTH CAROLINA STATE BUILDING CODE, EFFECTIVE JANUARY 01, 2019.
- VERIFY ALL DRAWINGS FOR COORDINATION BETWEEN TRADES, LOCATE SLOTS, SLEEVES AND TRENCHES AS REQUIRED FOR MECHANICAL TRADES. PROVIDE AND INSTALL ANCHORS, INSERTS, HANGERS, ETC. AS REQUIRED FOR VARIOUS TRADES.
- SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR MUST CHECK ALL DIMENSIONS AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS.
- UNDER NO CIRCUMSTANCES CAN THE REPRODUCTION OF CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS.
- PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED.
- LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION MUST NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL ALL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITION OF JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
- THE DUTY OF THE ARCHITECT IN CONDUCTING CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE SPECIFICALLY DETAILED OR NOTED OTHERWISE.
- STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL FRAMING. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL FRAME.
- INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- MECHANICAL UNIT WEIGHTS AND LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR MUST VERIFY LOCATIONS AND WEIGHTS SHOWN AND REPORT DISCREPANCIES TO THE ARCHITECT.

FOUNDATION NOTES:

- FOUNDATIONS FOR THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT, PREPARED BY TERRACON AND DATED APRIL 10, 2023.
- PERFORM ALL EARTHWORK IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT.
- THE ENTIRE STRUCTURE MUST BE FOUNDED ON VERY WELL COMPACTED STRUCTURAL FILL OR UNDISTURBED SOIL WITH A DESIGN BEARING PRESSURE OF 2000 P.S.F.
- PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO VERIFY THE EXTENT OF ANY LOOSE, SOFT, OR UNSATISFACTORY SOIL AND TO VERIFY THE DESIGN BEARING PRESSURE. THE GEOTECHNICAL ENGINEER WILL PROVIDE DIRECTION FOR CORRECTIVE ACTION WHERE REQUIRED.
- DO NOT INSTALL FOUNDATION WORK UNTIL IT HAS BEEN COORDINATED WITH ADJACENT UNDERGROUND UTILITIES. FOOTINGS MUST BE SLEEVED OR LOWERED WHERE REQUIRED. DO NOT INSTALL UTILITIES UNDER ISOLATED COLUMN FOOTINGS. INSTALL UTILITIES PERPENDICULAR TO WALL FOOTINGS.
- DO NOT PUT IN UNBALANCED BACKFILL AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING.
- FROST LINE DEPTH IS 12" BELOW GRADE. BOTTOM OF EXTERIOR FOUNDATIONS MUST BEAR A MINIMUM OF 16" BELOW FINAL GRADE. LOWER FOOTINGS AS REQUIRED TO MAINTAIN COVERAGE.

CAST IN PLACE CONCRETE NOTES:

- CAST IN PLACE CONCRETE MUST COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI- 318-14), COMMENTARY, (ACI-318R-14), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301).
- DETAILING OF ALL CONCRETE STEEL REINFORCEMENT MUST BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-315).
- ALL CONCRETE MUST BE NORMAL WEIGHT, UNLESS OTHERWISE NOTED, CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
 - SLAB ON GRADE 4,500 PSI
 - CONCRETE NOT OTHERWISE NOTED 4,000 PSI
 - CONCRETE EXPOSED TO WEATHER MUST BE AIR ENTRAINED.
- ALL REINFORCING MUST BE AS FOLLOWS:
 - REINFORCING BARS - ASTM A-615, GRADE 60
 - WELDED WIRE REINFORCEMENT - ASTM A-1064 FLAT SHEET TYPE, ROLL TYPE NOT ACCEPTABLE.
- WELDED WIRE REINFORCEMENT MUST BE PROPERLY SUPPORTED PRIOR TO PLACING CONCRETE. HOOKING OF FABRIC IS NOT PERMITTED.
- UNLESS OTHERWISE NOTED, REINFORCING STEEL MARKED CONTINUOUS (CONT.) MUST BE LAPPED PER THE REINFORCING LAP SCHEDULE.
- HOLD ALL REINFORCING STEEL SECURELY IN PLACE TO PREVENT DISLOCATION DURING THE POURING OPERATION. SUPPORT SLAB REINFORCING BARS ON HIGH CHAIRS AND BAR SPACERS OF SUITABLE DESIGN, OR CONCRETE BLOCKS HAVING THE SAME MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SLAB.
- DO NOT PLACE CONCRETE UNTIL ALL EMBEDDED WORK HAS BEEN INSTALLED, TESTED AND INSPECTED.
- EXCEPT AS OTHERWISE SHOWN MINIMUM PROTECTION (CONCRETE COVER) FOR REINFORCING STEEL MUST BE AS FOLLOWS:

CONCRETE SURFACES CAST AGAINST SOIL: 3"
 CONCRETE SURFACES EXPOSED TO EARTH OR WEATHER: 2"
 INTERIOR CONCRETE SURFACES: 1" FOR SLABS UNLESS OTHERWISE NOTED

CONCRETE MASONRY NOTES:

- MASONRY CONSTRUCTION MUST COMPLY WITH THE MASONRY SOCIETY "BUILDING CODE FOR MASONRY STRUCTURES" (TMS 402-2016) AND "SPECIFICATION FOR MASONRY STRUCTURES" (TMS 602-2016).
- CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND BE MADE WITH LIGHTWEIGHT AGGREGATE. THE COMPRESSIVE STRENGTH OF MASONRY, F_m, EXPRESSED AS FORCE PER UNIT OF NET CROSS-SECTIONAL AREA, MUST BE 2,000 PSI AT 28 DAYS.
- MORTAR MUST CONFORM TO ASTM C270, TYPE S. AGGREGATE FOR MORTAR MUST COMPLY WITH ASTM C144.
- GROUT MUST CONFORM TO ASTM C476 AND MUST HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI. SLUMP AT POINT OF PLACEMENT MUST BE BETWEEN 8 AND 11 INCHES.
- ALL REINFORCING BARS MUST CONFORM TO ASTM A615, GRADE 60. SHOP FABRICATED BARS SHOWN TO BE BENT OR HOOKED. BARS MUST BE LAPPED AS FOLLOWS: #4-20", #5-30", #6-54", #7-63", #8-72", #9-81".
- REBAR DOWELS MUST BE THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM FOUNDATION. DOWELS MUST HAVE STANDARD ACI HOOKS.
- PROVIDE BAR POSITIONERS FOR VERTICAL REINFORCING AT A MAXIMUM SPACING OF 200 BAR DIAMETERS, AT GROUT LIFT HEIGHTS, OR BAR SPLICE LOCATIONS, WHICHEVER IS LESS.
- GROUTING MUST BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
- ALL BOLTS, ANCHORS, ETC. PLACED IN THE WALL, MUST BE GROUTED SOLID INTO POSITION.
- GROUT ALL CELLS SOLID BELOW FINISHED FIRST FLOOR.
- HORIZONTAL JOINT REINFORCING MUST BE STANDARD 9 GAGE LADDER TYPE IN CMU WALLS AT 16" ON-CENTER. JOINT REINFORCING MUST COMPLY WITH ASTM A951.
- DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR BOND BEAMS AT JOIST BEARING ELEVATIONS. HORIZONTAL BOND BEAMS MUST HAVE CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. [INTERMEDIATE BOND BEAM SPACING MUST CONFORM TO THE MAXIMUM HORIZONTAL SPACING INDICATED.]

COLD-FORMED STEEL FRAMING NOTES:

- ALL COLD-FORMED STEEL (CFS) FRAMING MUST CONFORM TO THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" LATEST EDITION.
- DESIGN COLD-FORMED FRAMING IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "COLD-FORMED STEEL DESIGN MANUAL". DESIGN FOR THE LOADS INDICATED IN THE DESIGN CRITERIA NOTES AND APPLY ALL APPLICABLE FACTORS.
- DESIGN COLD-FORMED FRAMING MEMBERS INCLUDING EXTERIOR NON LOADBEARING WALLS, CLADDING, SOFFITS, AND CONNECTIONS.
- DESIGN MEMBERS FOR ALL FRAMING CONDITIONS, INCLUDING WALLS, CORNERS, HEADERS, AND JAMBS. SOME CONDITIONS MAY REQUIRE MODIFICATION TO THE MEMBERS (SUCH AS NOTCHING OR REVISING SIZES, OR MULTIPLE STUDS TO SUPPORT INCREASED LOADS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL DETAILS AND CONDITIONS.
- SUBMIT SHOP DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA FOR THE DESIGN, INCLUDING DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE.
- UNLESS OTHERWISE NOTED, GALVANIZE ALL COLD-FORMED METAL FRAMING AND CONNECTIONS IN ACCORDANCE WITH ASTM A653.
- ALL COLD-FORMED STEEL 16 GAGE AND HEAVIER MUST BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH OF 50 KSI. ALL COLD-FORMED STEEL 18 GAGE AND LIGHTER, TRACK, BRIDGING, AND ACCESSORIES MUST BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL".
- PROVIDE MECHANICAL BRIDGING OR FULL DEPTH BLOCKING AT 8'-0" ON CENTER OR AT 1/3 POINTS OF THE MEMBER SPAN, WHICHEVER IS LESS.
- PROVIDE TEMPORARY BRACING AND GUYING OF COLD FORMED STEEL FRAMING FOR THE SAFETY OF THE STRUCTURE AND WORK PERSONNEL. BRACING MUST REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF FRAMING.
- UNLESS OTHERWISE NOTED, EXTERIOR WALL STUDS MUST BE 600S16254 SPACED AT 16" ON CENTER. STUDS MUST BE FULL HEIGHT (NO SPLICES) FROM FOUNDATION TO ROOF.

OPEN WEB STEEL JOIST NOTES:

- OPEN-WEB STEEL JOIST MUST COMPLY WITH THE STANDARD SPECIFICATION FOR OPEN WEB JOISTS OF THE STEEL JOIST INSTITUTE (SJI), LATEST EDITION.
- OPEN-WEB STEEL JOIST MUST HAVE A MINIMUM BEARING LENGTH AS FOLLOWS:
 - ON STEEL - 'K' SERIES = 2 1/2"
- WELD ALL STEEL JOISTS WHEREVER THEY BEAR ON STRUCTURAL STEEL MEMBERS, IN ACCORDANCE WITH THE S.J.I. AND THE A.I.S.C SPECIFICATIONS
- PREPARE AND SUBMIT SHOP DRAWINGS INDICATING THE JOIST LAYOUT, SPECIAL CONNECTIONS, AND ACCESSORIES. INCLUDE MARK, NUMBER, TYPE, LOCATION, AND SPACING OF JOISTS AND BRIDGING.
- THE JOIST MANUFACTURER IS RESPONSIBLE FOR CONTINUOUS JOIST BRIDGING LINES SATISFYING THE REQUIREMENTS OF THE SJI SPECIFICATION FOR THE TOP AND BOTTOM CHORDS OF ALL STEEL JOISTS, AS WELL AS ANY ADDITIONAL BRIDGING / BRACING SHOWN ON THE DRAWINGS OR REQUIRED FOR JOISTS SUBJECTED TO NET UPLIFT OF OTHER SPECIAL LOADS. PROVIDE JOIST BRIDGING REQUIRED AT CHANGES OF JOIST DEPTHS AND AT ENDS OF ALL BRIDGING LINES UNLESS SUCH ENDS ARE PROPERLY ANCHORED INTO THE INTERSECTING INTERIOR OR END WALLS.
- REFER TO DESIGN CRITERIA NOTES FOR NET UPLIFT LOAD ON ROOF JOISTS. A SINGLE LINE OF BOTTOM CHORD BRIDGING MUST BE PROVIDED NEAR THE FIRST BOTTOM CHORD PANEL POINTS WHENEVER UPLIFT LOADS OCCUR.
- INSTALL JOIST BRIDGING AND CONNECTIONS COMPLETELY PRIOR TO PLACING ANY CONSTRUCTION LOADS ON THE JOISTS. CONSTRUCTION LOADING MUST NOT EXCEED THE JOIST DESIGN LOAD.
- REINFORCE CONCENTRATED LOADS EXCEEDING 100 POUNDS AND NOT LOCATED AT JOIST PANEL POINTS PER THE TYPICAL DETAIL.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL MUST COMPLY WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-16) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
- STRUCTURAL STEEL MUST BE NEW, CLEAN, AND STRAIGHT, AND CONFORM TO THE FOLLOWING:
 - STEEL W- AND WT SHAPES - ASTM A992, GRADE 50
 - RECTANGULAR AND SQUARE HSS SHAPES - ASTM A500, GRADE B
 - ROUND HSS - ASTM A500 GRADE B
 - ANCHOR RODS - ASTM F1554, GRADE 55
 - HIGH STRENGTH BOLTS - ASTM A325
 - ALL OTHER STEEL SHAPES - ASTM A36, UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, ALL CONNECTIONS MUST BE STANDARD SHEAR BEAM CONNECTIONS. THE FABRICATOR IS RESPONSIBLE FOR DESIGNING ALL CONNECTIONS. WHERE REACTIONS ARE NOT INDICATED ON PLAN UNLESS OTHERWISE NOTED, CONNECTIONS MUST BE DESIGNED FOR 1/2 OF THE TOTAL ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS GIVEN IN PART 3 OF THE "STEEL CONSTRUCTION MANUAL". CONNECTION DETAILS MUST BE IN ACCORDANCE WITH AISC STANDARDS.
- UNLESS OTHERWISE NOTED WELD ALL SHOP CONNECTIONS AND BOLT ALL FIELD CONNECTIONS. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS. REFER TO SPECIFICATIONS.
- SHOW ALL HOLES REQUIRED IN STRUCTURAL STEEL MEMBERS FOR PIPING ON THE SHOP DRAWINGS AND MAKE THEM IN THE SHOP. DO NOT CUT HOLES IN THE FIELD WITHOUT THE APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL OF RECORD.
- WELDING MUST COMPLY WITH THE "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1). WELD ELECTRODES MUST BE E70XX. UNLESS OTHERWISE NOTED, MINIMUM WELD SIZE MUST BE 3/16" CONTINUOUS FILLET WELDS.
- REFER TO THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL STEEL (IF ANY) NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- UNLESS OTHERWISE NOTED, THE TOP OF ALL STEEL COLUMNS MUST HAVE A STEEL CAP PLATE. UNLESS OTHERWISE NOTED, MINIMUM CAP PLATE DIMENSIONS MUST MATCH COLUMN WIDTH AND DEPTH, AND MINIMUM THICKNESS MUST EQUAL COLUMN WEB THICKNESS, OR 1/2" MINIMUM.
- ALL SHELF ANGLES, LINTEL ANGLES, STEEL IN EXTERIOR WALLS AND OTHER ITEMS MARKED "GALVANIZED" MUST BE GALVANIZED IN ACCORDANCE TO ASTM A123 OR ASTM A153. GALVANIZE AFTER FABRICATION WHERE PRACTICAL. REPAIR DAMAGED GALVANIZED COATING USING ASTM A780 ZINC-RICH PAINT.

STEEL DECK NOTES:

- STEEL DECK MUST CONFORM TO THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL STEEL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI) "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS".
- ATTACH ROOF DECK TO SUPPORTS WITH 5/8" DIAMETER ARC SPOT WELDS IN ALL RIBS WHERE SIDELAPS OCCUR AND AT 12 INCHES ON CENTER ALONG SUPPORTS. FASTEN ADJACENT DECK UNITS ALONG SIDELAPS WITH #10 SELF TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS. FASTEN EDGESTOP DECK PANEL TO SUPPORTS WITH 5/8" DIAMETER ARC SPOT WELDS AT SAME SPACING AS SIDELAP FASTENERS.
- AS AN ALTERNATIVE TO ARC SPOT WELDS, MECHANICAL FASTENERS MAY BE USED. INSTALL POWDER-ACTUATED FASTENERS OR SCREW FASTENERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE EQUIVALENT LOAD VALUES SHOWING THE MECHANICAL FASTENERS MEET OR EXCEED THE PROVIDED LOAD CRITERIA. FASTENERS MUST BE SDI LISTED FOR DIAPHRAGM DESIGN AND WIND UPLIFT, AND FM LISTED FOR FIRE RESISTANCE AND WIND UPLIFT. FASTENERS MUST BE RECOGNIZED BY ICC-ES FOR DIAPHRAGM SHEAR STRENGTH IN ACCORDANCE WITH THE LATEST VERSION OF ICC-ES AC43.
- SPAN DECK PERPENDICULAR TO SUPPORTS, CONTINUOUS OVER A MINIMUM OF THREE SPANS. PROVIDE FULL SHEETS ON EDGES OF DIAPHRAGMS.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". FIELD WELDS MUST BE WIRE BRUSHED AND PAINTED WITH RICH ZINC PAINT.
- PROVIDE SUPPORTS ON ALL SIDES OF DECK OPENINGS MEASURING GREATER THAN 12" ON ANY SIDE OF OPENING. SPAN SUPPORTS BETWEEN ADJACENT BEAMS OR JOISTS ON TWO SIDES. UNLESS OTHERWISE NOTED USE L4X4X1/4. COORDINATE OPENING SIZES, LOCATIONS, AND DETAILS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
- DO NOT HANG OR SUPPORT ANY PERMANENT LOADS FROM METAL ROOF DECK.
- DURING STEEL DECK ERECTION DISTRIBUTE CONSTRUCTION LOADS TO PREVENT DAMAGE TO DECK. CONCENTRATED CONSTRUCTION LOADS OF 150 POUNDS OR LESS DISTRIBUTED OVER A 1'-0" WIDE SECTION OF DECK MUST NOT REQUIRE ANY FURTHER DISTRIBUTION. USE WORKING PLATFORMS FOR CONCENTRATED LOADS OF OVER 150 POUNDS, SUCH THAT THE RESULTING UNIFORM CONSTRUCTION LOAD ON THE DECK DOES NOT EXCEED 50 PSF.

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE



J K F
 ARCHITECTURE

425 LYNDALE CT., SUITE F, GREENVILLE, NC 27659 252-355-1068

STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
 GENERAL NOTES

SCALE	NO SCALE
DRAWN	JSS
CHECKED	KMR
DATE	7-15-2023
PROJECT NO.	2022-17

2S0.1

GENERAL NOTES:

DESIGN CRITERIA NOTES:

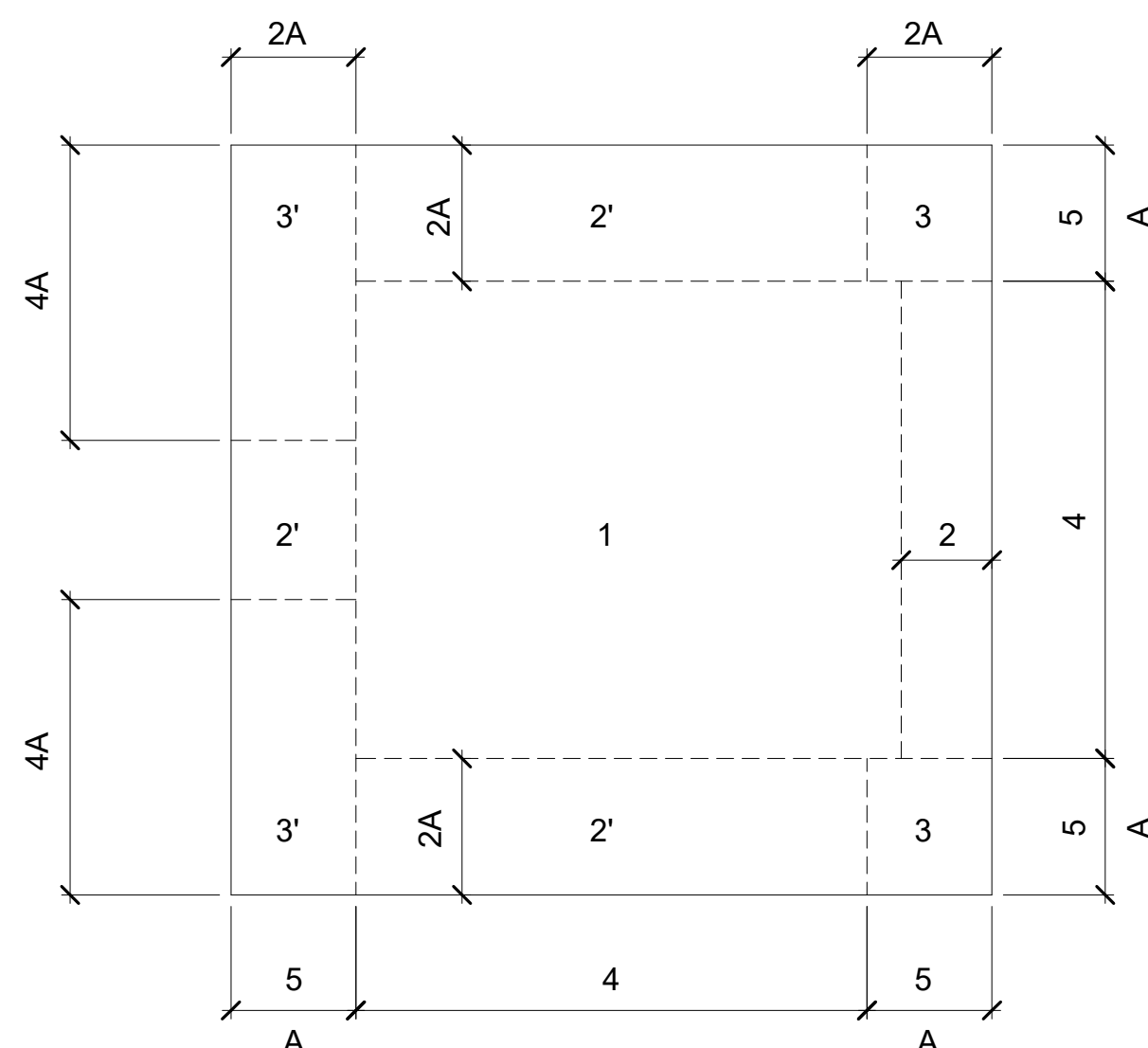
- LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
- UNIFORM LIVE LOADS:
 SLAB ON GRADE 250 PSF
 STORAGE/OFFICE 100PSF
 ROOF 20 PSF
- CONCENTRATED LIVE LOADS:

 FLOOR: 2000# CONCENTRATED LOAD OVER 2.5 FT X 2.5 FT AREA
 CONCENTRATED LIVE LOAD IS NOT CONCURRENT WITH UNIFORM LIVE LOAD
- ROOF SNOW LOADS:
 GROUND SNOW LOAD $P_g = 10$ PSF
 SNOW EXPOSURE FACTOR $C_e = 1.0$
 SNOW LOAD IMPORTANCE FACTOR $I = 1.0$
 THERMAL FACTOR $C_t = 1.0$
 FLAT ROOF SNOW LOAD: $P_f = 7$ PSF
 RAIN ON SNOW SURCHARGE LOAD = 5 PSF
- WIND LOADS:
 RISK CATEGORY = II
 ULTIMATE WIND SPEED = 126 MPH
 NOMINAL WIND SPEED (ASD) = 98.4 MPH
 EXPOSURE CATEGORY (MAIN WINDFORCE-RESISTING SYSTEM): C
 EXPOSURE CATEGORY (COMPONENTS AND CLADDING): C
 INTERNAL PRESSURE COEFFICIENT: ± 0.18 (ENCLOSED)

COMPONENTS AND CLADDING: WIND PRESSURE TO BE USED FOR DESIGN OF EXTERIOR COMPONENTS AND CLADDING MATERIALS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS MUST BE PER TABLE BELOW:

ULTIMATE COMPONENTS AND CLADDING WIND PRESSURES												
AREA (SF)	ROOF ZONES					WALL ZONES						
	1	2	3	2'	3'	4	5					
A<10	+16.0	-42.6	+16.0	-49.3	+16.0	-66.0	-59.3	-92.6	+36.0	-39.0	+36.0	-48.0
A≥100	+16.0	-42.6	+16.0	-46.0	+16.0	-46.0	-56.0	-59.3	+30.7	-33.7	+30.7	-37.4

INTERPOLATE BETWEEN AREAS INDICATED.
 MULTIPLY ULTIMATE PRESSURES BY 0.6 TO EQUATE TO ALLOWABLE PRESSURE
 CORNER ZONES, A = 6 FEET.
 REFER TO SKETCH BELOW FOR ZONE DEFINITIONS.
 TO CALCULATE NET UPLIFT, SUBTRACT 8 PSF FROM PRESSURES LISTED ABOVE



ZONES

- SEISMIC LOADS:
 RISK CATEGORY II
 IMPORTANCE FACTOR $I = 1.0$
 $S_s = 13.7\%g$
 $S_1 = 6.4\%g$
 SOIL SITE CLASS D
 SEISMIC DESIGN CATEGORY C
 BASIC SEISMIC FORCE RESISTING SYSTEM: STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE
 RESPONSE MODIFICATION FACTOR, $R = 3.0$
 SEISMIC RESPONSE COEFFICIENT, $C_s = 0.069$
 DESIGN BASE SHEAR: $0.069W$
 ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS NOTES:

STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEMS. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.

STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN.

THE STRUCTURAL ENGINEER OF RECORD WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTIONS DOCUMENTS.

DESIGN RESPONSIBILITY FOR THE FOLLOWING ENGINEERED SYSTEMS AND COMPONENT PARTS IS DELEGATED TO A QUALIFIED DELEGATED REGISTERED PROFESSIONAL ENGINEER SELECTED BY THE CONTRACTOR. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:

STRUCTURAL STEEL CONNECTIONS EXCEPT FOR PRIMARY LATERAL FORCE RESISTING SYSTEM CONNECTIONS.

COLD-FORMED STEEL FRAMING AND CONNECTIONS, BRIDGING, BRACING, AND RELATED COMPONENTS.

OPEN WEB STEEL JOISTS, BRIDGING, BRACING, CONNECTIONS, AND RELATED COMPONENTS.

INCLUDE SIGNED SEALS FOR WORK DESIGNED BY THE DELEGATED ENGINEER.
 DO NOT START FABRICATION OF THE DELEGATED SYSTEM OR COMPONENT PART OR FIELD CONSTRUCTION THAT MAY BE AFFECTED BY THE SYSTEM OR COMPONENT PART WITHOUT SUBMITTAL REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.

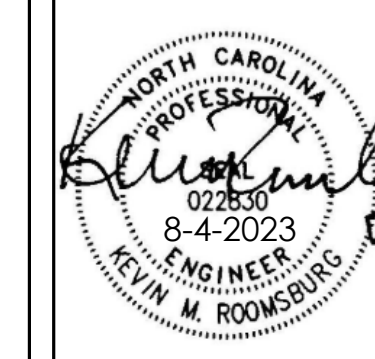
STRUCTURAL ABBREVIATIONS LIST

AB	ANCHOR BOLT
ALT	ALTERNATE
ARCH	ARCHITECT, ARCHITECTURAL
BLDG	BUILDING
BOTT	BOTTOM
BRDG	BRIDGING
BRG	BRACING
CFS	COLD-FORMED STEEL
CMU	CONCRETE MASONRY UNIT
CJ	CONTROL JOINT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA	DIAMETER
DIAG	DIAGONAL
DWG	DRAWING
DWGS	DRAWINGS
ELEC	ELECTRICAL
ELEV	ELEVATION
ETC	ETCETERA
EXIST	EXISTING
EXP	EXPANSION
FOUND	FOUNDATION
FNDN	FOUNDATION
FOB	FACE OF BRICK
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HT	HEIGHT
INSUL	INSULATION
ISO	ISOLATION
L	ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MANUF	MANUFACTURED/MANUFACTURER
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
OPG	OPENING
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
REF	REFERENCE
REINF	REINFORCE, REINFORCING
REQ'D	REQUIRED
SCHED	SCHEDULE
SECT	SECTION
SJ	SAWED JOINT
SPECS	SPECIFICATIONS
STD	STANDARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
CL	CENTERLINE
OC	ON CENTER
Ø	DIAMETER
°	DEGREES
±	PLUS OR MINUS

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE



JKF
 ARCHITECTURE

425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1068

STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
GENERAL NOTES AND ABBREVIATIONS

SCALE	NO SCALE
DRAWN	JSS
CHECKED	KMR
DATE	7-15-2023
PROJECT NO.	2022-17

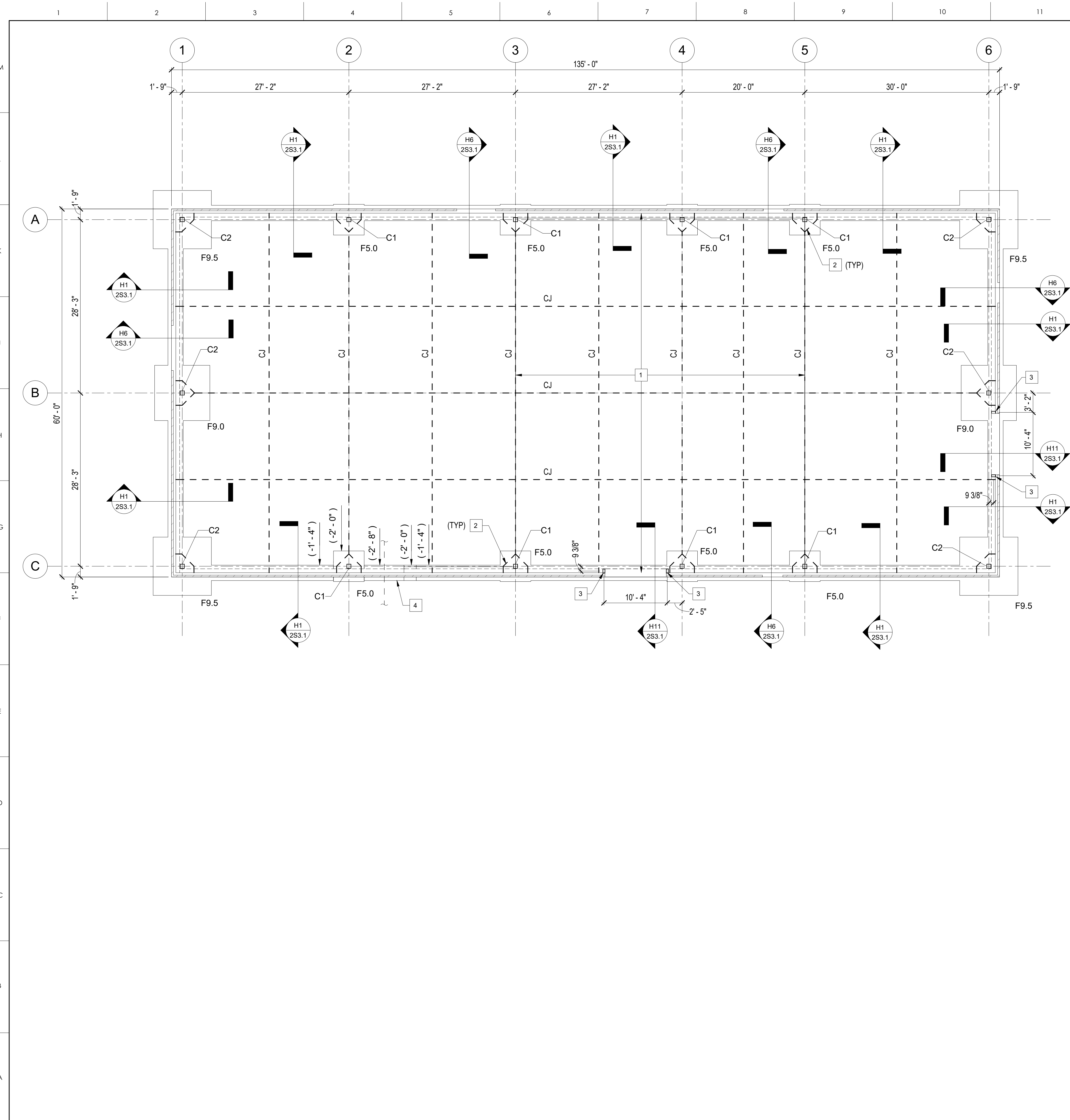
2S0.2

PLAN NOTES:

- DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FIRST FLOOR ELEVATION = 0'-0". REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATION.
- TOP OF CONCRETE SLAB IS AT +0'-0" UNLESS OTHERWISE INDICATED THUS (-) ON PLAN. FOR EXTENT OF SLAB DEPRESSION, REFER TO ARCH. DWGS.
- UNLESS OTHERWISE NOTED PROVIDE 4" CONCRETE SLAB ON GRADE ON 15 MIL VAPOR RETARDER OVER 4" POROUS FILL MATERIAL. REINFORCE SLAB WITH 6 x 6 - W2.9 x W2.9 W.W.F. PLACED 1" CLEAR FROM TOP OF SLAB.
- UNLESS OTHERWISE NOTED THUS (-) ON PLAN, TOP OF ALL WALL AND COLUMN FOOTINGS SHALL BE AT ELEVATION -1'-4", INDICATING DISTANCE BELOW DATUM.
- THE SYMBOL CJ INDICATES SLAB CONTROL JOINT, AND MAY BE A CONSTRUCTION JOINT OR SAW JOINT. REFER TO TYPICAL SLAB CONTROL JOINT DETAILS ON SHEET 2S5.1.
- APPROXIMATE LOCATIONS OF UTILITIES THROUGH THE BUILDING ARE SHOWN ON PLAN. COORDINATE EXACT LOCATIONS WITH CIVIL AND PLUMBING DRAWINGS. COORDINATE TOP OF ALL FOOTINGS WITH UTILITIES. FOOTINGS MAY BE STEPPED OR A PIPE SLEEVE BELOW FOOTING MAY BE PROVIDED. REFER TO TYPICAL DETAILS ON SHEET 2S5.1 FOR ADDITIONAL INFORMATION.
- COLUMNS ARE DESIGNATED (CX) ON PLAN. REFER TO COLUMN SCHEDULE ON SHEET 2S5.1 FOR COLUMN AND BASE PLATE DETAILS.
- WALL FOOTINGS ARE WF2.5 UNLESS OTHERWISE NOTED. FOR COLUMN FOOTING SCHEDULE AND WALL FOOTING SCHEDULE, REFER TO SHEET 2S5.1. WALL FOOTINGS ARE INDICATED (WFX.X) AND COLUMN FOOTINGS ARE INDICATED (FX.X).
- FOR TYPICAL DETAILS REFER TO SHEETS 2S5.1, 2S5.2, AND 2S5.3.
- FOR GENERAL NOTES REFER TO SHEETS 2S0.1 AND 2S0.2.

KEY NOTES:


- PROVIDE 6" CONCRETE SLAB ON GRADE ON 15 MIL VAPOR RETARDER OVER 4" POROUS FILL MATERIAL. REINFORCE SLAB WITH 6 x 6 - W2.9 x W2.9 W.W.F. PLACED 1 1/2" CLEAR FROM TOP OF SLAB.
- INDICATES COLUMN ISOLATION JOINT. REFER TO SHEET 2S5.1 FOR ISOLATION JOINT DETAIL.
- HSS8x4x1/4 JAMB. FOR CONNECTION TO FOOTING, REFER TO JAMB CONNECTION DETAILS ON 2S5.2.
- STEP FOOTING AS REQUIRED AT PLUMBING LINES EXITING THE BUILDING. REFER TO TYPICAL STEPPED FOOTING DETAIL ON SHEET S5.1



GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

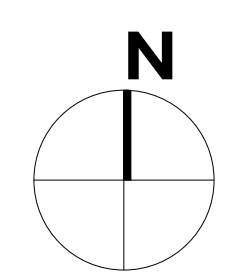

J K F
 ARCHITECTURE

25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

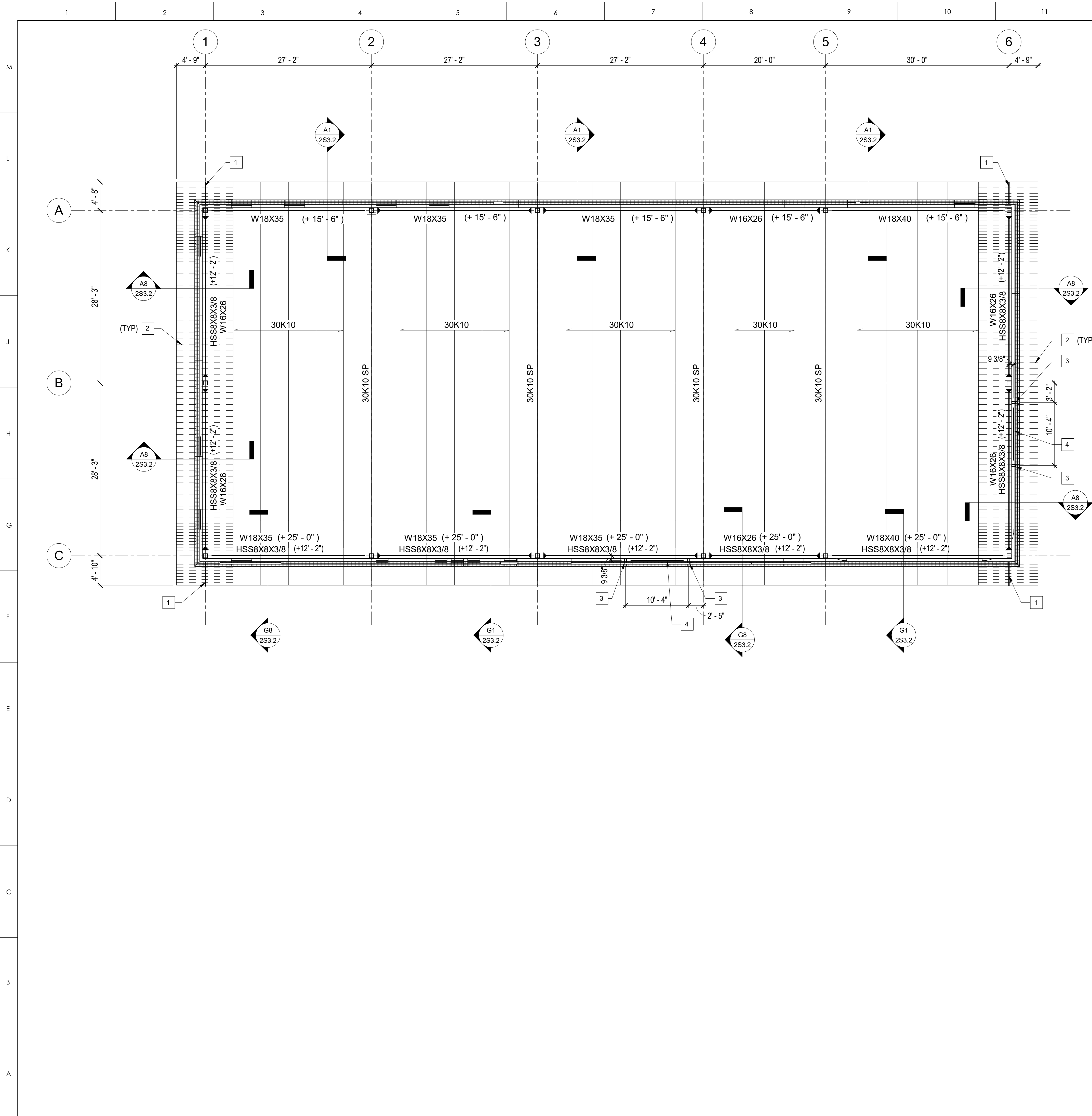
STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
FOUNDATION PLAN

SCALE	As indicated	2S1.1
DRAWN	JSS	
CHECKED	KMR	
DATE	7-15-2023	
PROJECT NO.	2022-17	



FOUNDATION PLAN
 1/8" = 1'-0" A15



PLAN NOTES:

- DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FIRST FLOOR ELEVATION = 0'-0". REFER TO CIVIL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION.
- TOP OF STEEL BEAM ELEVATIONS INDICATED THUS (+ _____) ON PLAN.
- ROOF CONSTRUCTION IS 1-1/2" DEEP, 20 GA. TYPE 'B' STEEL ROOF DECK SUPPORTED ON OPEN WEB STEEL JOIST SPACED AT 5' - 0" OC MAX ON STEEL BEAMS.
- JOIST EXTENDED ENDS MUST BE DESIGNED TO SAFELY SUPPORT AN UNIFORM LOAD OF 300 PLF OR 200 LBS LOCATED AT THE END OF JOIST EXTENSION.
- FOR LOCATION AND DIMENSIONS OF ROOF OPENINGS REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS.
- UNLESS OTHERWISE SHOWN PROVIDE ANGLE L4x4x1/4 FRAMING AROUND ALL MECHANICAL AND ARCHITECTURAL ROOF OPENINGS.
- MECHANICAL UNITS SHALL BE SUPPORTED ON OR SUSPENDED FROM A MINIMUM OF 3 JOIST AND AT PANEL POINTS ONLY. PROVIDE STEEL SUB FRAMING IF REQUIRED.
- FOR COLUMN SIZE, REFER TO FOUNDATION PLAN.
- STEEL JOIST PREFIX 'SP' ARE COLUMN BRACING JOIST. FOR JOIST TO COLUMN CONNECTION REFER TO TYPICAL DETAILS ON 2S5.3.
- FOR ROOF FRAMING MOMENT CONNECTIONS INDICATED THUS () ON PLAN, REFER TO TYPICAL DETAILS ON SHEET 2S5.3.
- SLOPING JOISTS SHALL HAVE A MINIMUM JOIST SEAT OF 5".
- STAGGER JOIST AS REQUIRED TO OBTAIN REQUIRED BEARING ON BEAMS AND WALLS.
- FOR EXTERIOR WALL OPENING, REFER TO TYPICAL DETAIL ON SHEET 2S5.2.
- FOR TYPICAL DETAILS REFER TO SHEETS 2S5.1, 2S5.2 AND 2S5.3.
- FOR GENERAL NOTES REFER TO SHEETS 2S0.1 AND 2S0.2.

KEY NOTES:

- BEAM EXTENSION, REFER TO TYPICAL BEAM EXTENSION DETAIL ON 2S5.3.
- HSS3 1/2x1 1/2x1/4 (LSH) OUTLOOKERS SPACED AT 6" OC WITHIN 12' - 0" OF BUILDING CORNERS AND 12" OC REMAINDER. REFER TO TYPICAL DETAIL ON 2S5.3.
- HSS8x4x1/4 JAMB. FOR CONNECTION TO WIND GIRT, REFER TO JAMB CONNECTION DETAILS ON 2S5.2.
- HSS8x4x5/16 (LSH) LINTEL TOS = +10' - 4 3/8". FOR CONNECTION TO JAMB COLUMN, REFER TO TYPICAL GIRT TO COLUMN CONNECTION DETAIL ON 2S5.3. PROVIDE BENT PLATE 7"x6"x3/8" (LSH) CONT BRICK SHELF ANGLE WELDED TO OUTSIDE FACE OF HSS LINTEL WITH 1/4" FILLET WELD 2" LONG AT 12" OC. TOP AND BOTTOM OF BENT PLATE.

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

Professional Engineer Seal for **John K. Farkas, AIA**, North Carolina Professional Engineer, License No. 027830, dated 8-4-2023.

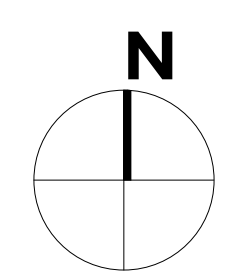
J K F
ARCHITECTURE

25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1068

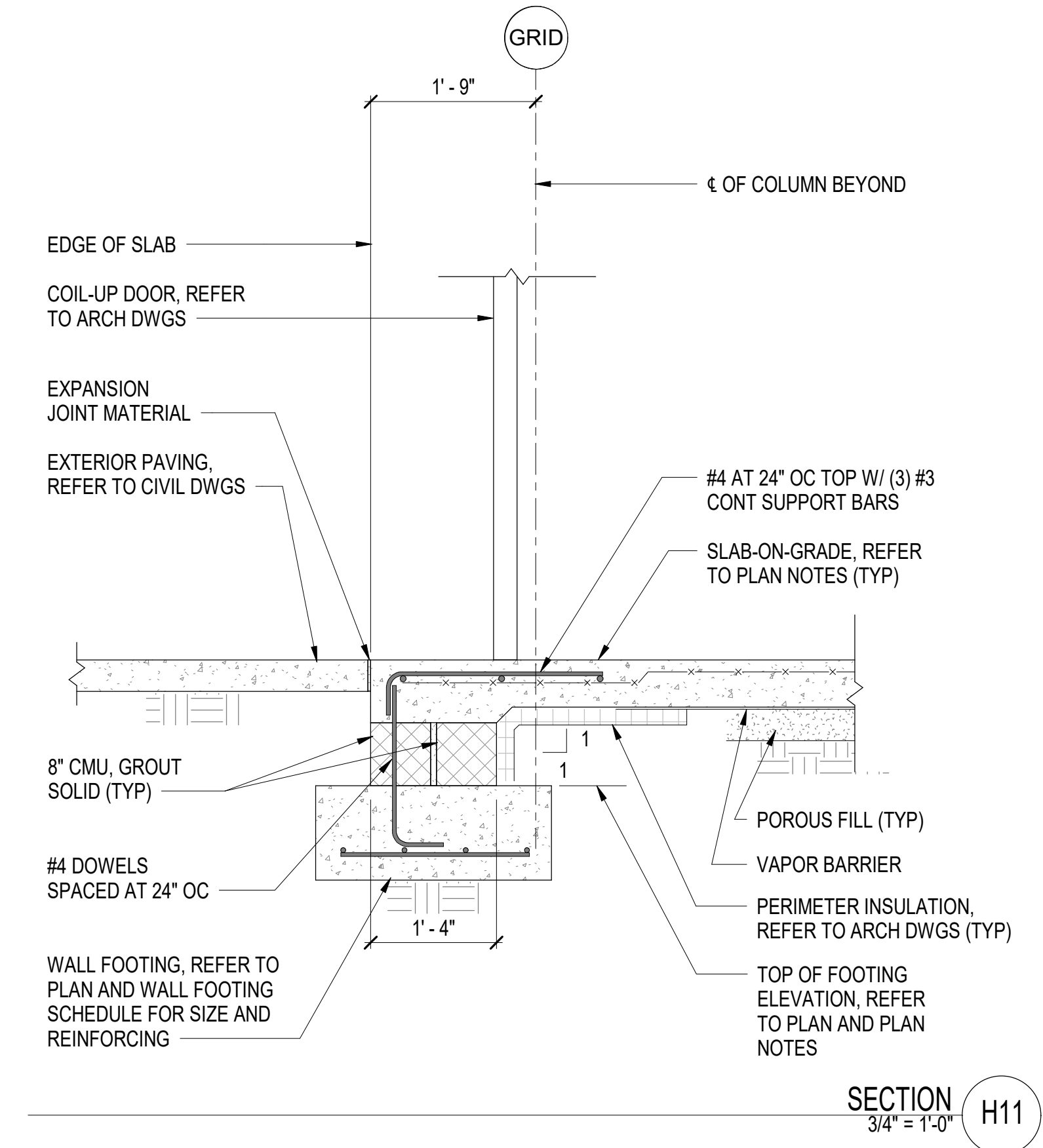
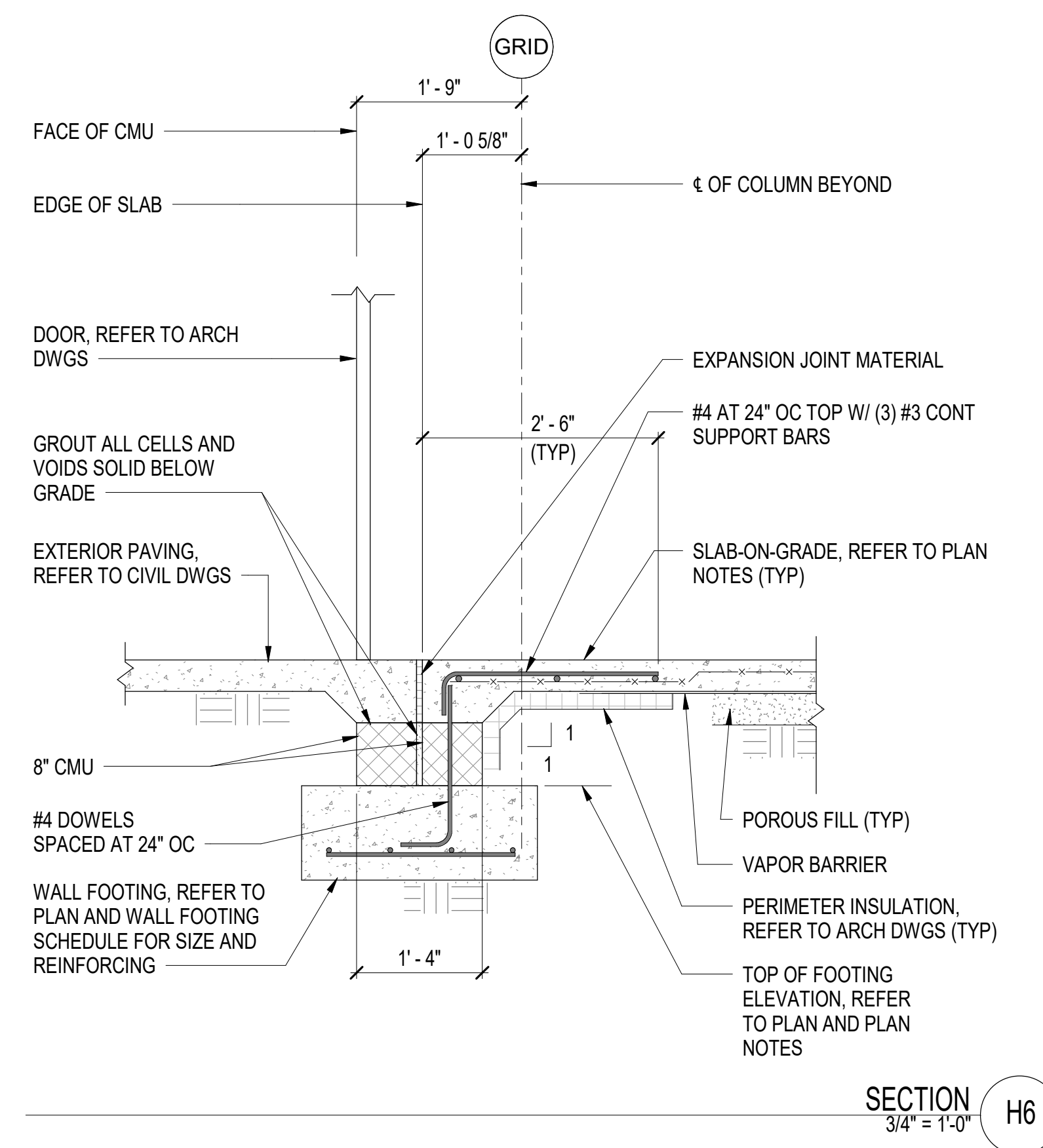
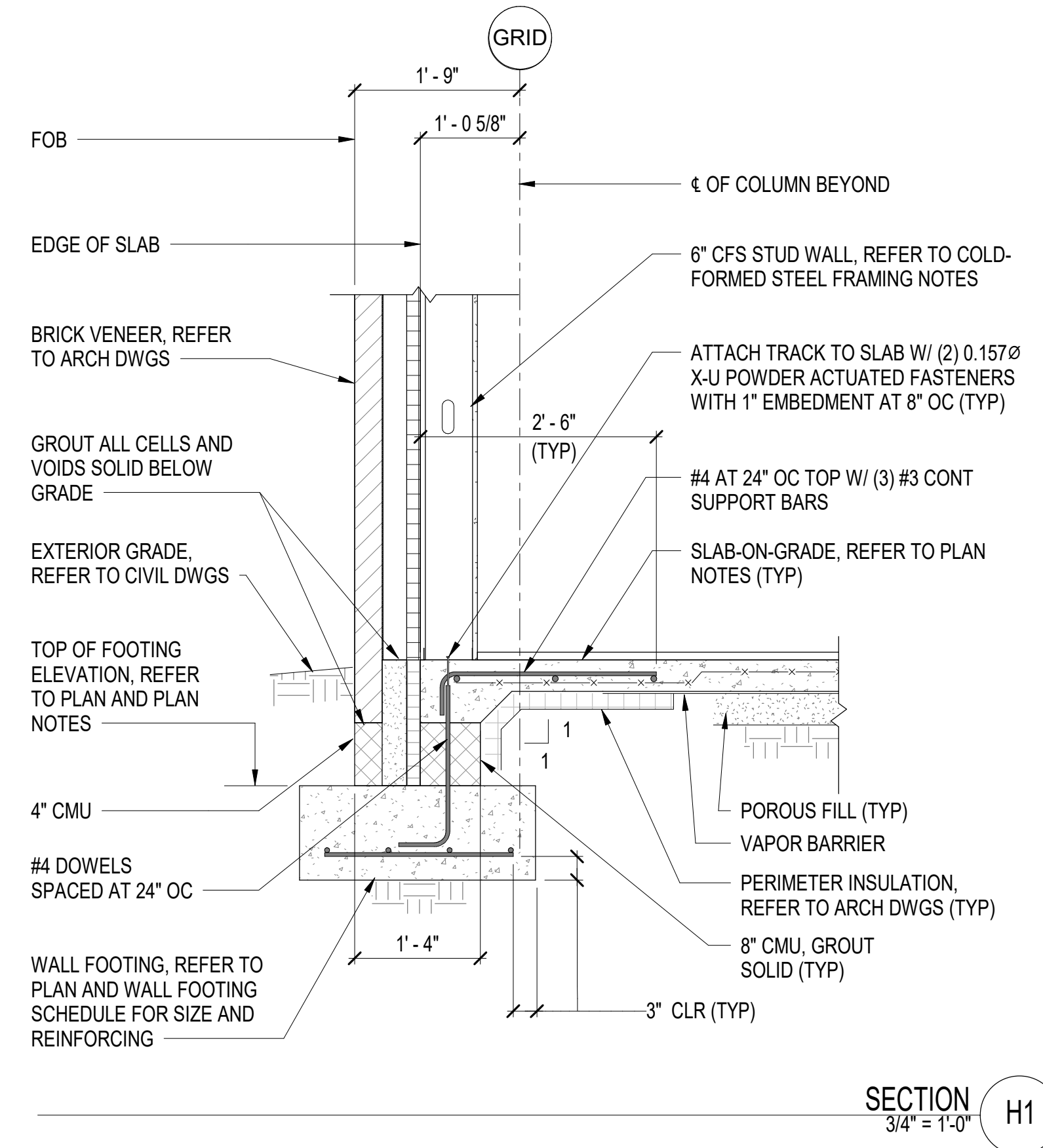
STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
ROOF FRAMING PLAN

SCALE	As indicated	2S2.1
DRAWN	JSS	
CHECKED	KMR	
DATE	7-15-2023	
PROJECT NO.	2022-17	



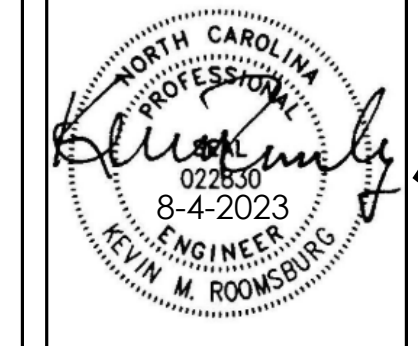
ROOF FRAMING PLAN
 1/8" = 1'-0" A15



GENERAL NOTES

KEY PLAN

NO	REVISION	DATE



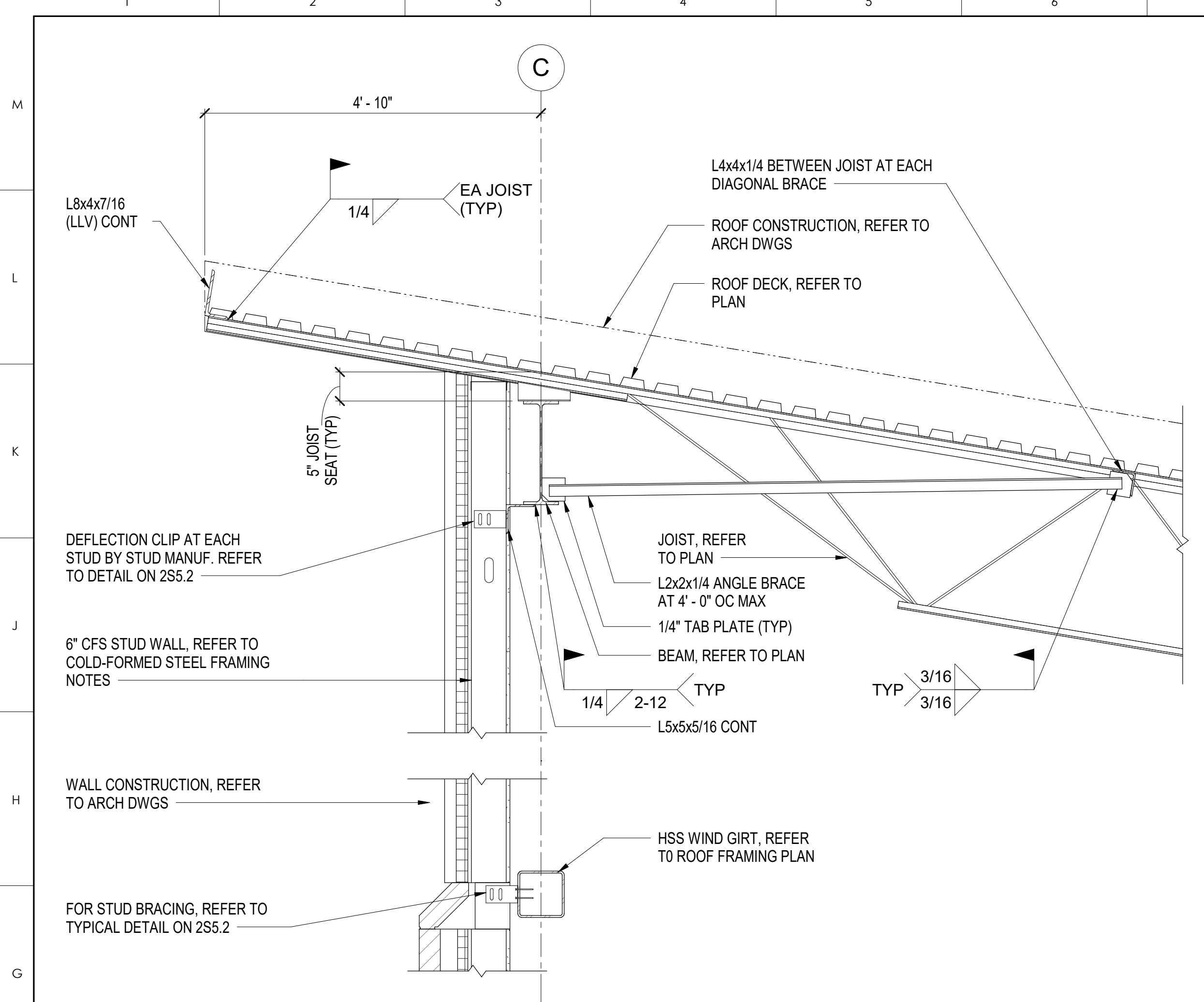
JKF
 ARCHITECTURE

425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

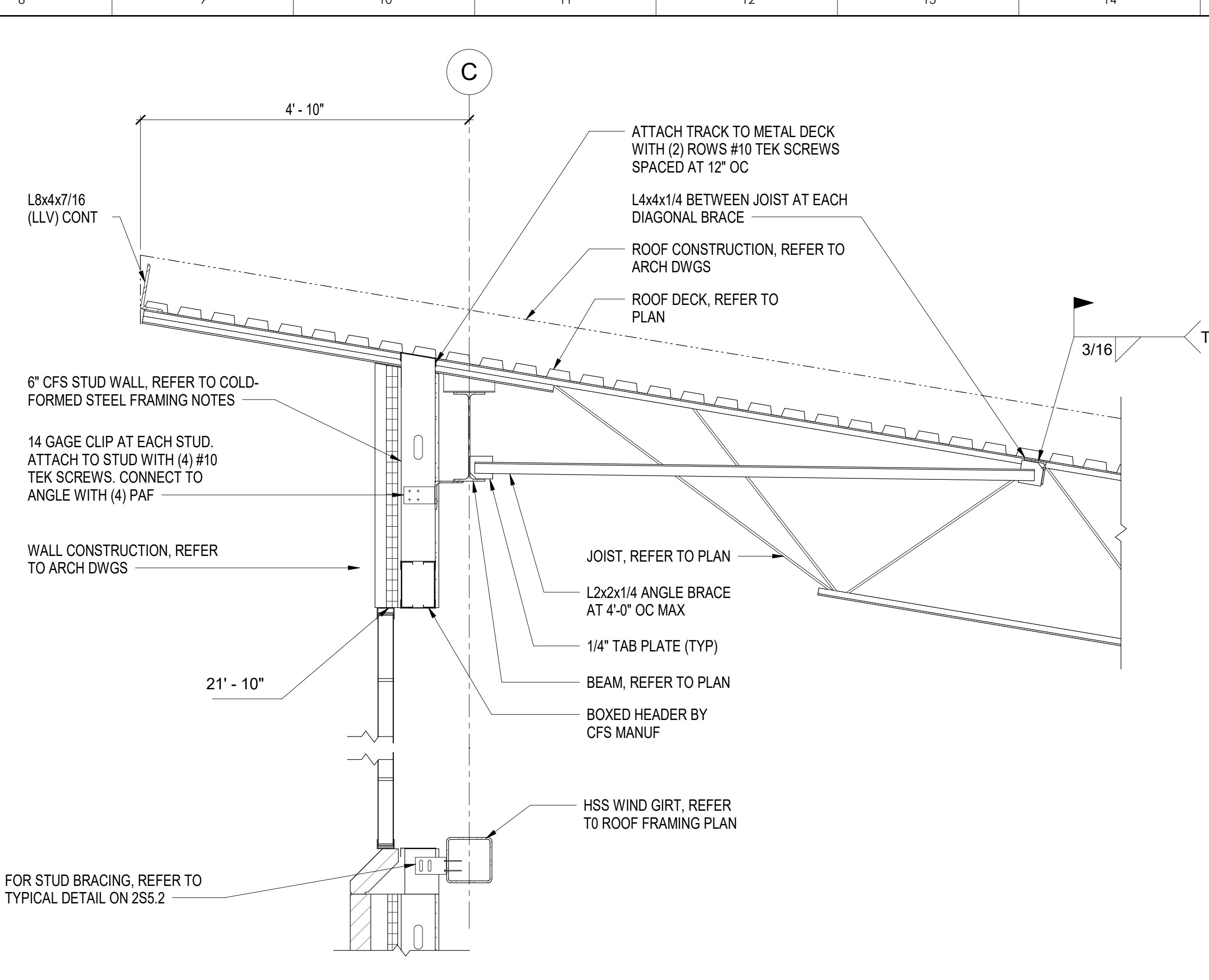
STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
SECTIONS

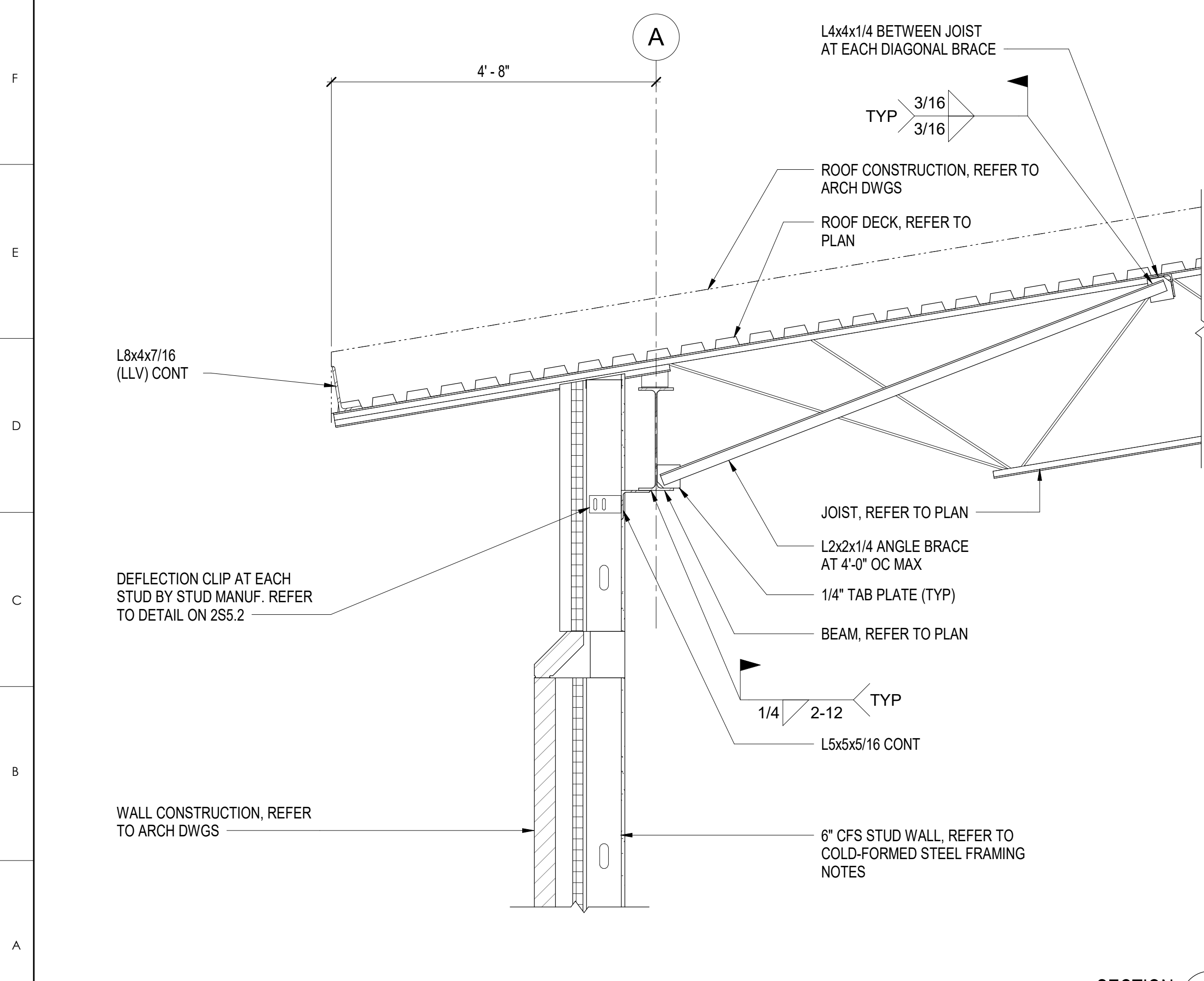
SCALE	3/4" = 1'-0"	2S3.1
DRAWN	JSS	
CHECKED	KMR	
DATE	7-15-2023	
PROJECT NO.	2022-17	



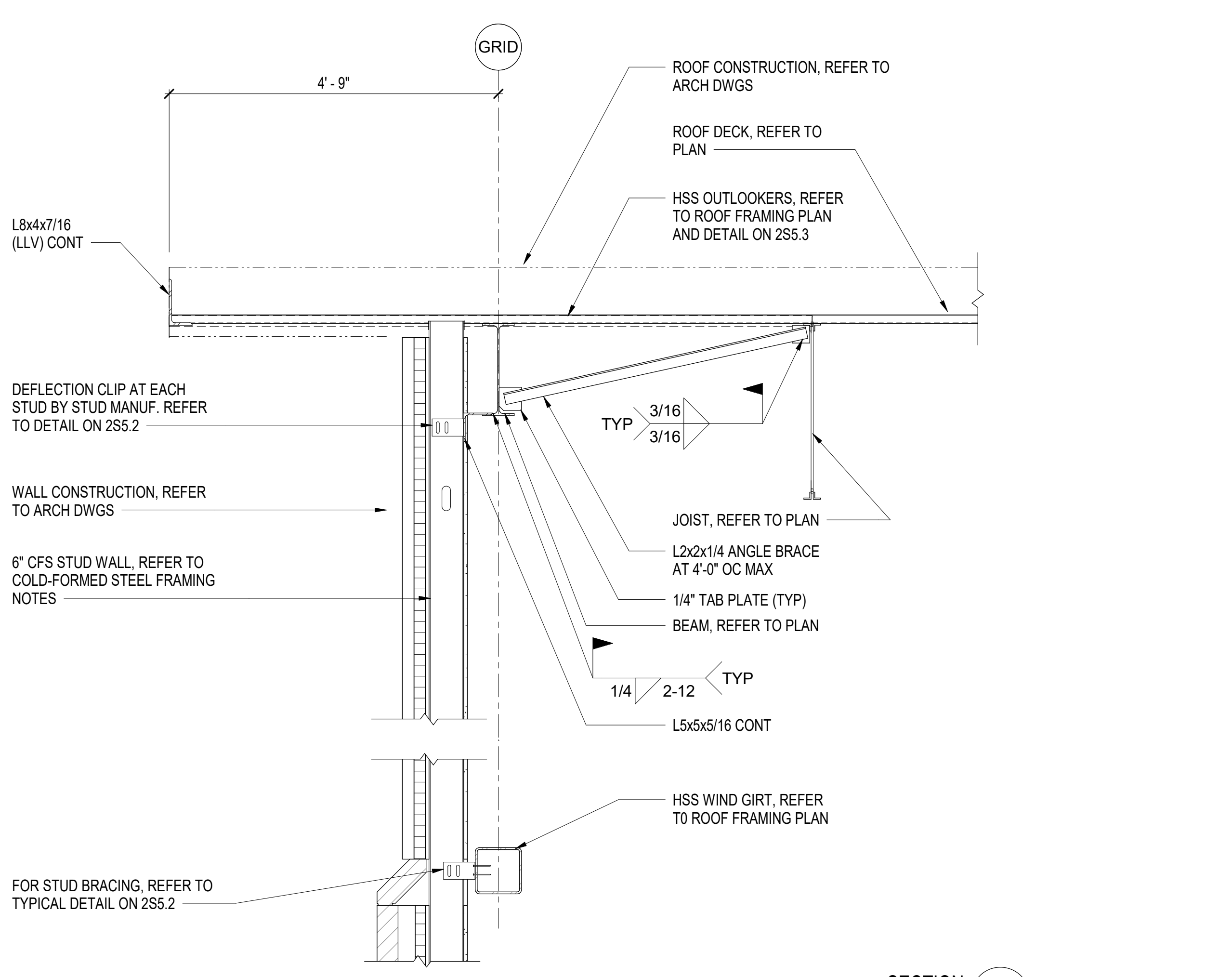
SECTION G1
 3/4" = 1'-0"



SECTION G8
 3/4" = 1'-0"



SECTION A1
 3/4" = 1'-0"



SECTION A8
 3/4" = 1'-0"

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

Professional Engineer Seal: NORTH CAROLINA PROFESSIONAL ENGINEER, JOHN M. ROOMS, 022830, 8-4-2023.

JKF ARCHITECTURE

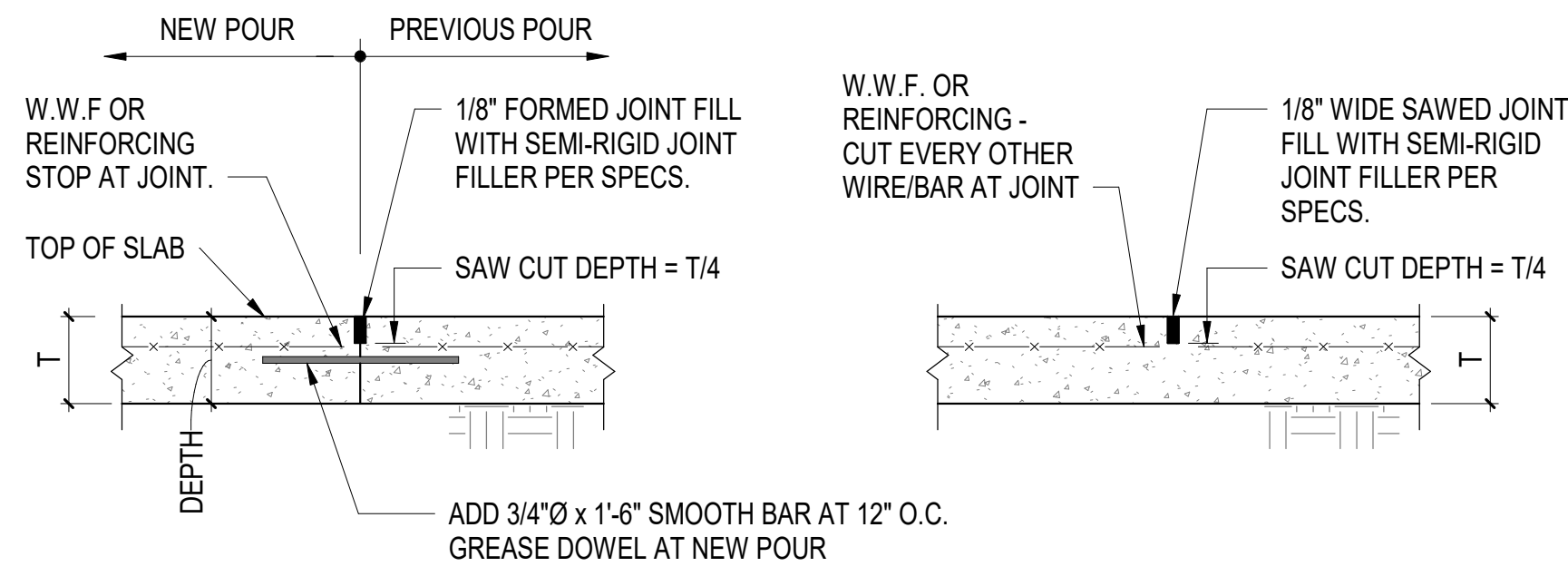
425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

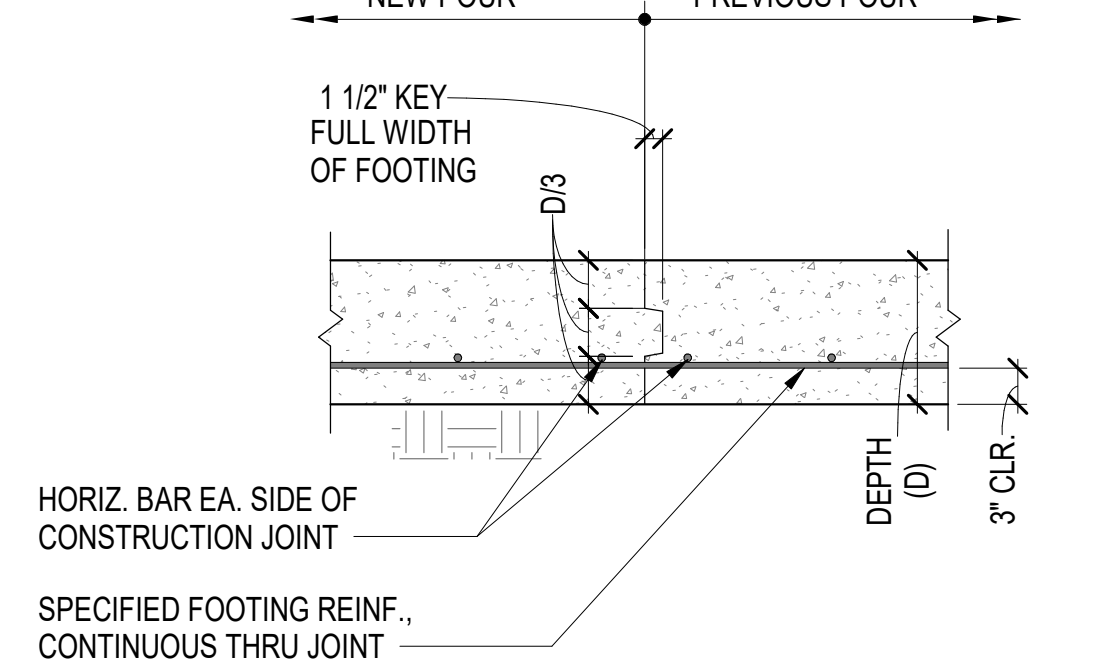
DRAWING TITLE: SECTIONS

SCALE	3/4" = 1'-0"
DRAWN	JSS
CHECKED	KMR
DATE	7-15-2023
PROJECT NO.	2022-17

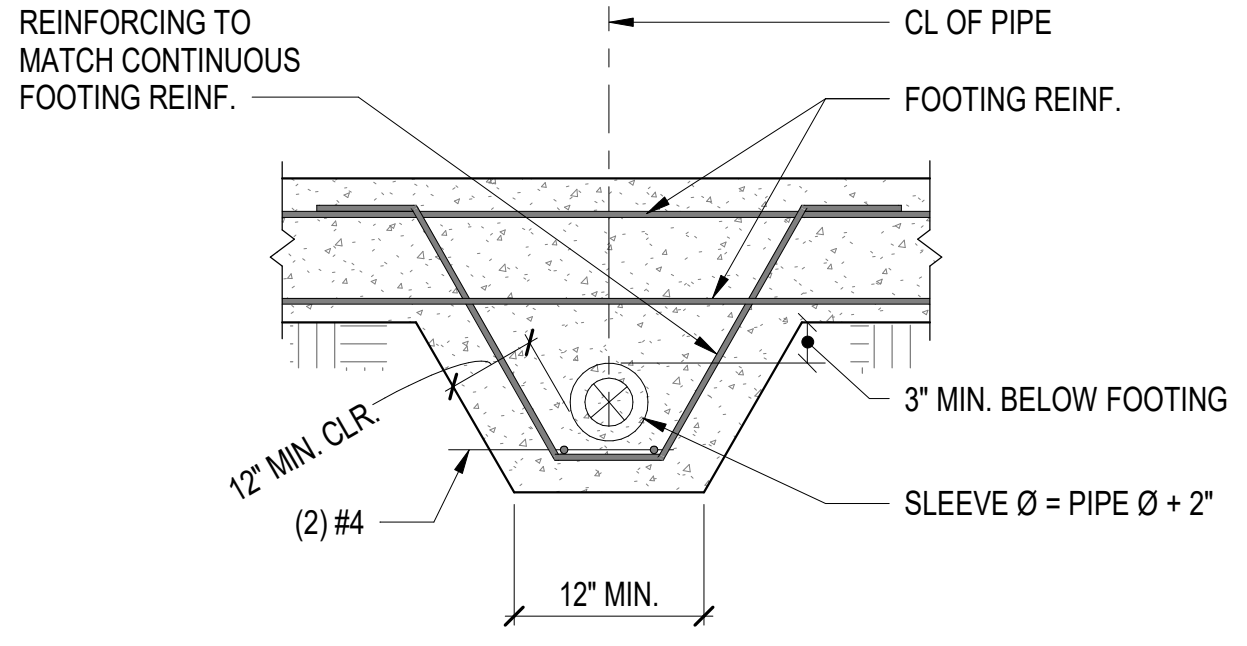
2S3.2



TYPICAL SLAB CONTROL JOINT DETAILS
NOT TO SCALE



TYPICAL FOOTING CONSTRUCTION JOINT DETAIL
NOT TO SCALE

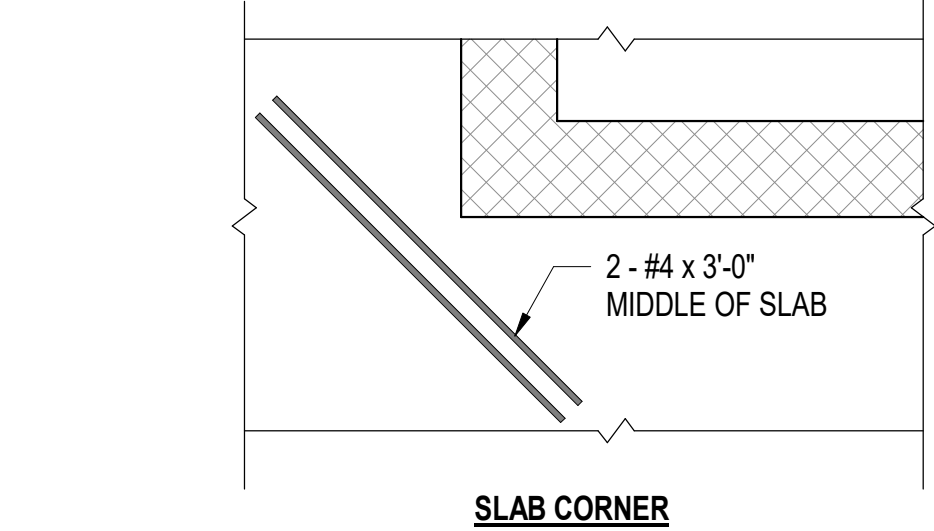
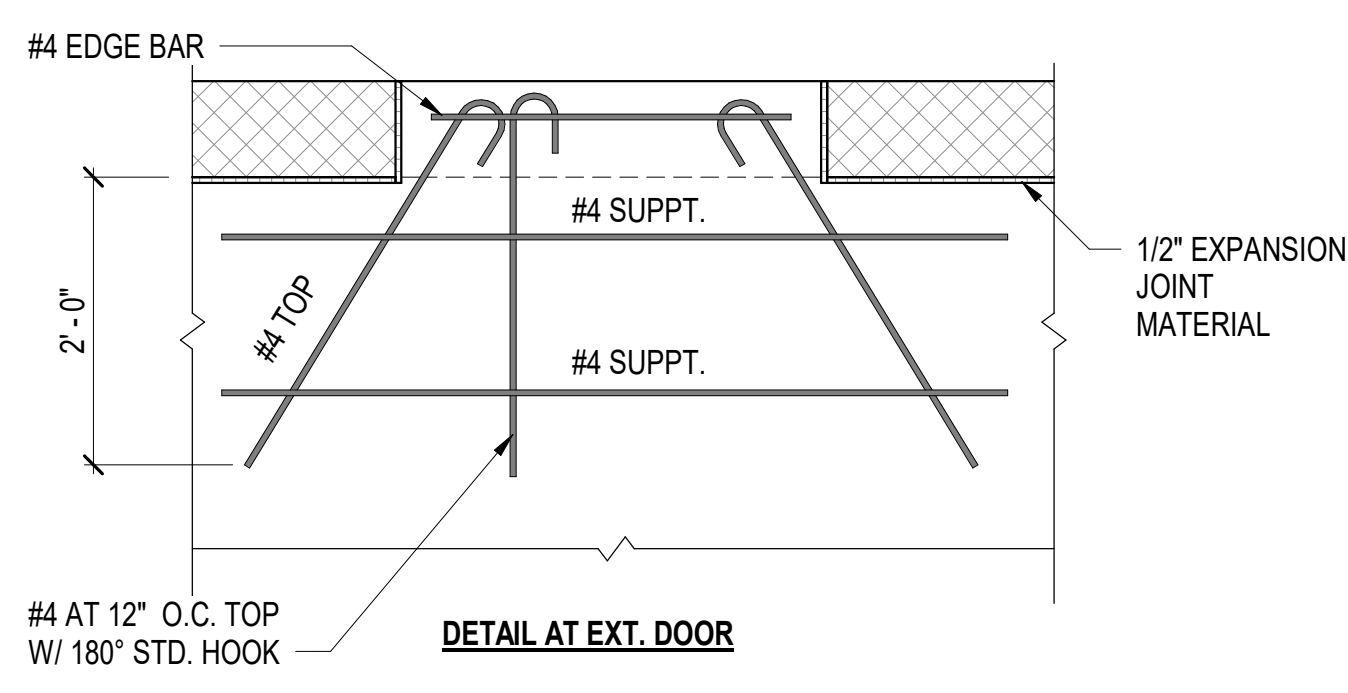


TYPICAL PIPE SLEEVE BELOW FOOTING DETAIL
NOT TO SCALE

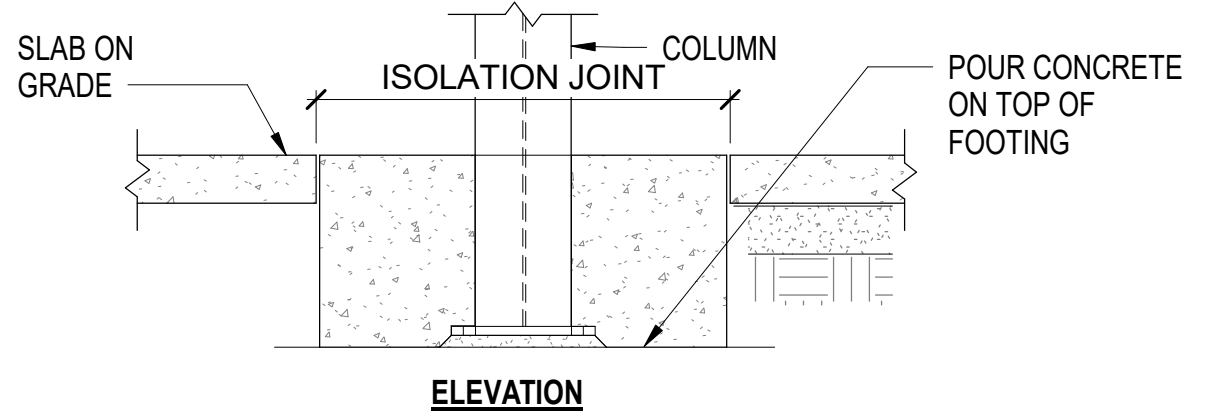
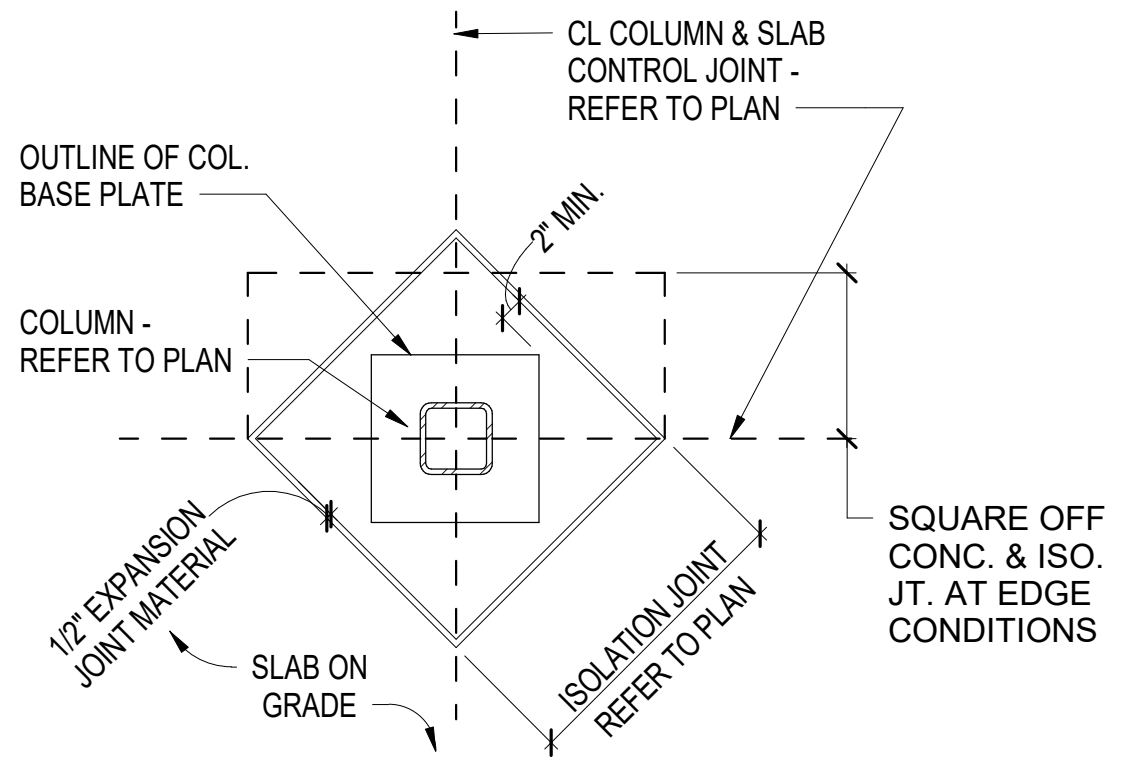
CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE	
BAR SIZE	LAP LENGTH
#4	20"
#5	25"
#6	30"
#7	44"
#8	50"
#9	57"

NRW ENGINEERING
Structural Consultants
746 Lord Dumore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0819

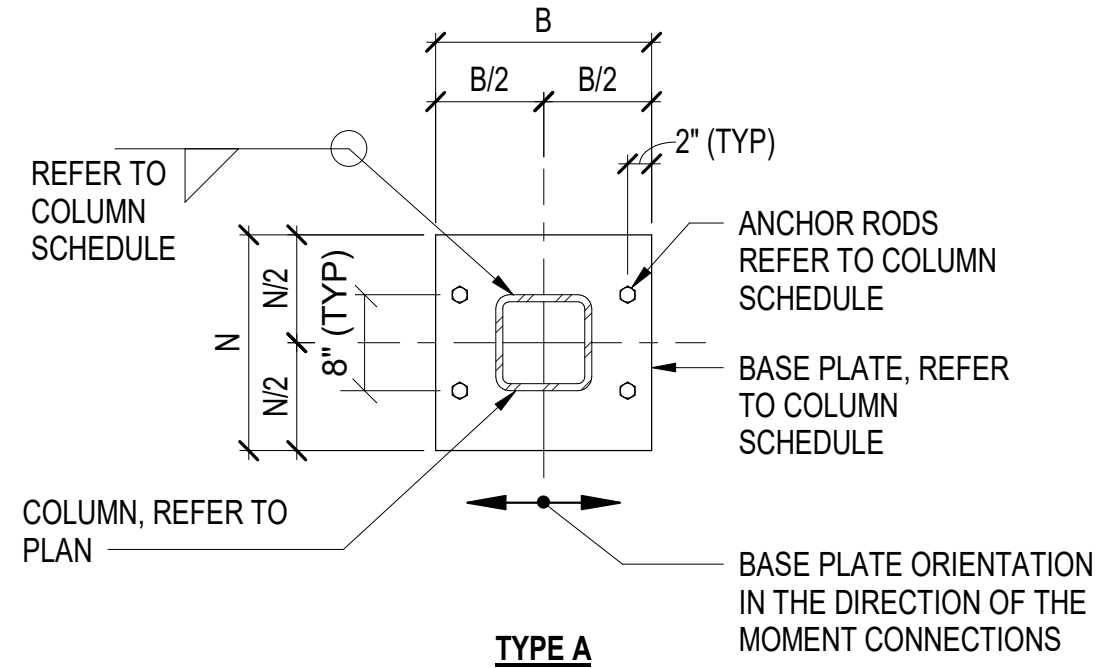
MATERIALS KEYING LEGEND



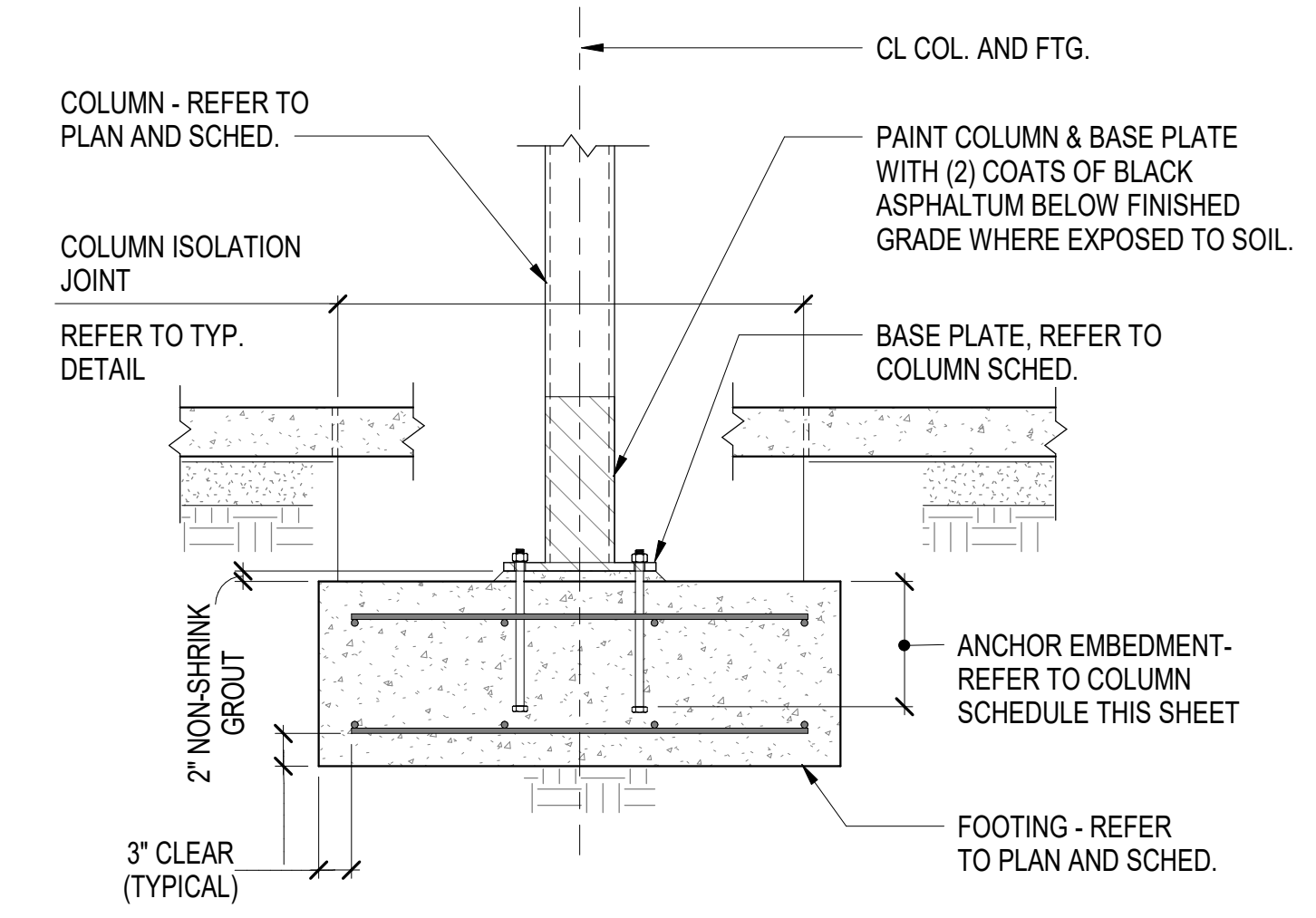
TYPICAL DETAIL SHOWING SLAB REINFORCING AT EXT. DOORS & CORNERS
NOT TO SCALE



TYPICAL COLUMN ISOLATION JOINT DETAIL
NOT TO SCALE



TYPICAL BASE PLATE DETAIL
NOT TO SCALE



TYPICAL COLUMN AND FOOTING DETAIL
NOT TO SCALE

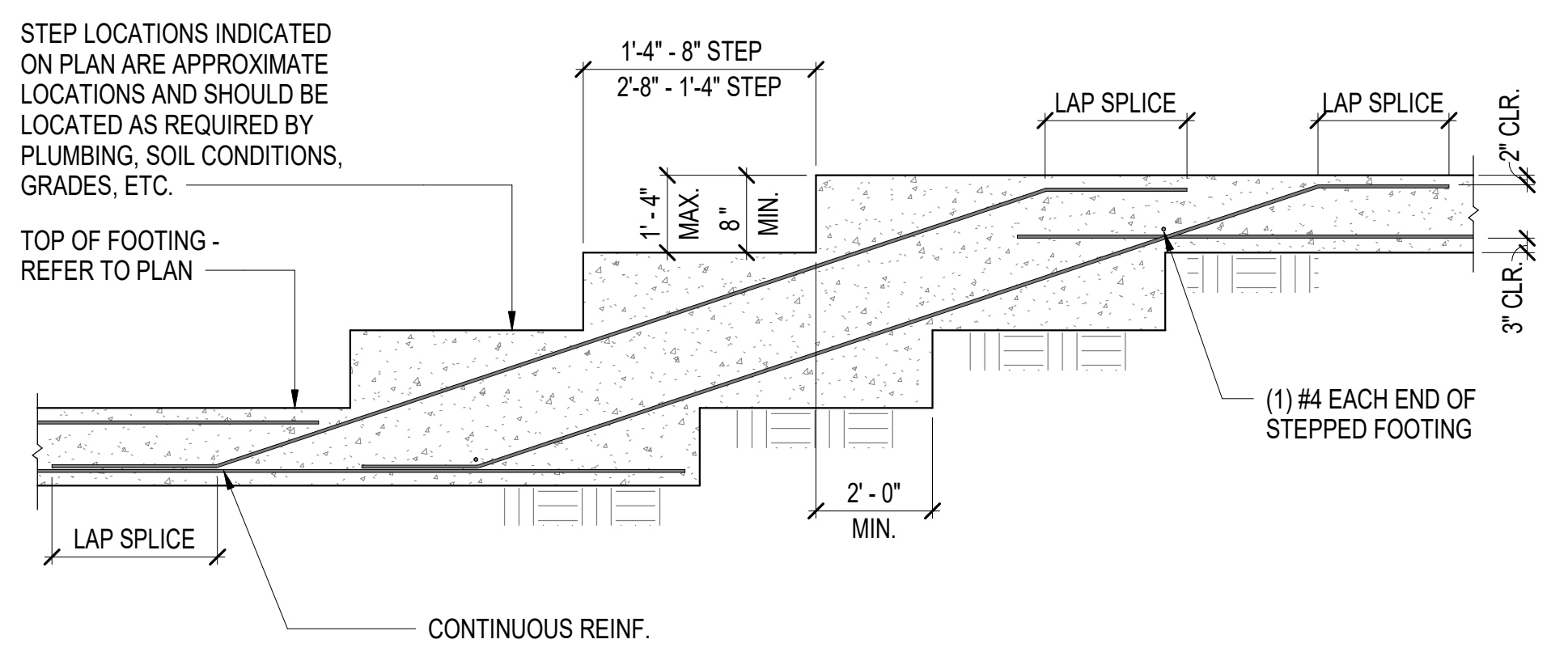
COLUMN SCHEDULE								
MARK	SIZE	BASE PLATE TYPE	B	N	THICKNESS	Weld Size	HEADED ANCHOR RODS	EMBEDMENT
C1	HSS8X8X1/2	A	16"	16"	1 1/2"	5/16"	(4) 1"Ø	10"
C2	HSS8X8X1/2	A	20"	20"	2"	1/2"	(4) 1 1/2"Ø	15"

NOTES:
1. HEADED ANCHOR RODS MUST BE ASTM F1554 GRADE 55 WITH HEAVY HEX NUTS.
2. OVERSIZE BASE PLATE HOLES WITH WASHERS AS FOLLOWS:

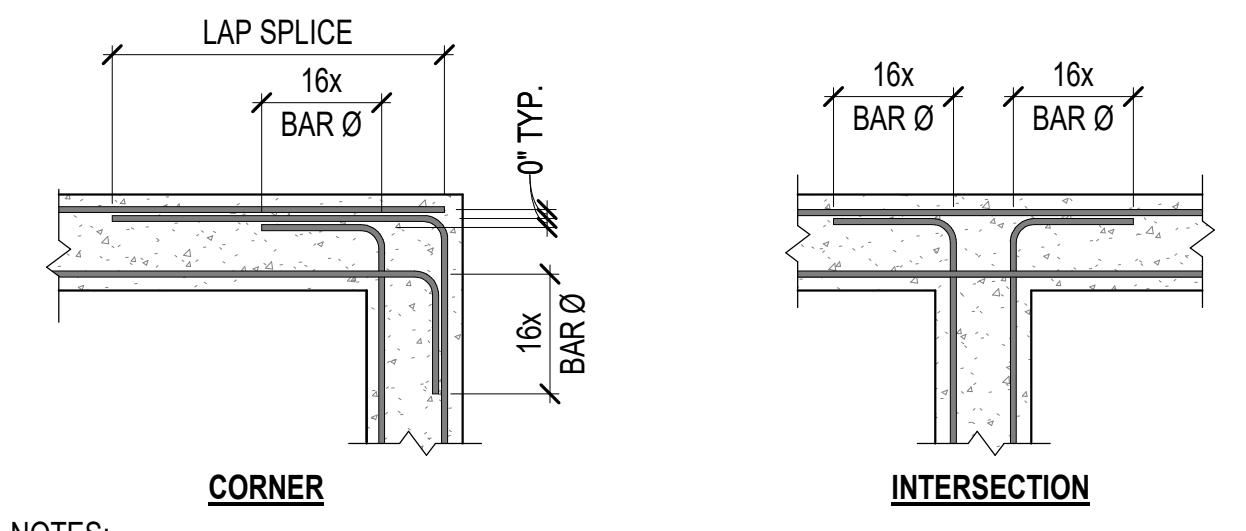
BOLTS	HOLE Ø	WASHER
1"Ø	1 7/8"	3/8"x3"Ø
1 1/2"Ø	2 3/8"	1/2"x4"Ø

MARK	DIMENSIONS			REINFORCING TOP AND BOTTOM				REMARKS
	WIDTH	LENGTH	DEPTH	SHORT WAY		LONG WAY		
				QUANTITY	SIZE	QUANTITY	SIZE	
F5.0	5' - 0"	9' - 0"	1' - 6"	5	6	5	6	
F9.0	9' - 0"	9' - 0"	1' - 6"	9	6	9	6	
F9.5	9' - 6"	9' - 6"	1' - 6"	9	6	9	6	

MARK	DIMENSIONS		REINFORCING				NOTES
	WIDTH	DEPTH	LONGITUDINAL		TRANSVERSE		
			QUANTITY	SIZE	SIZE	SPACING	
WF2.5	2' - 6"	1' - 0"	4	4	4	4' - 0"	



TYPICAL STEPPED FOOTING DETAIL
NOT TO SCALE



- NOTES:**
1. THIS DETAIL APPLIES TO CONCRETE AND MASONRY BOND BEAMS.
2. REFER TO CONCRETE MASONRY NOTES AND CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE ON S-001 FOR SPLICE LENGTH.
3. WHERE THREE BARS OCCUR, CENTER BAR SHALL BE TREATED SAME AS INNER FACE BAR.

TYPICAL CONTINUOUS REINFORCEMENT AT CORNERS AND INTERSECTIONS
NOT TO SCALE

GENERAL NOTES

KEY PLAN

NO REVISION DATE

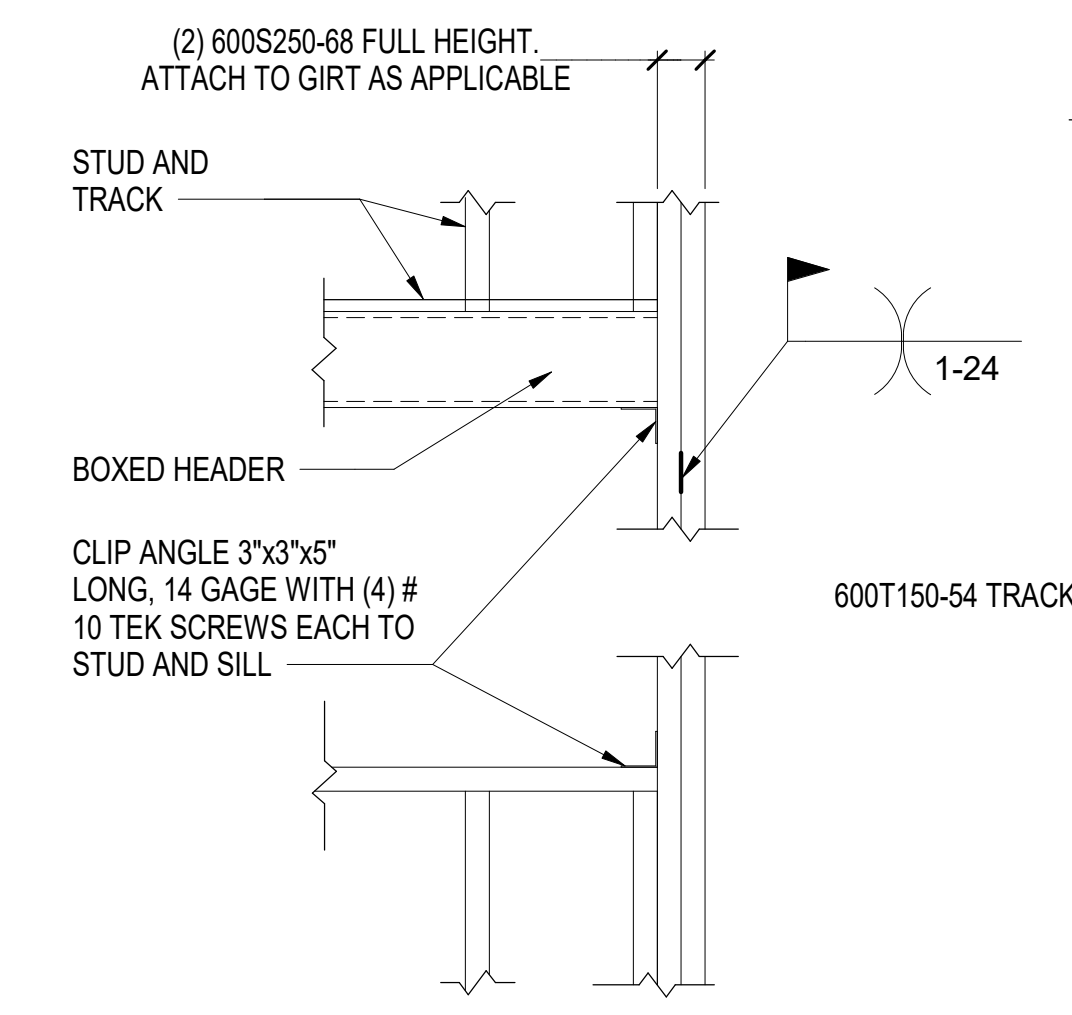
J K F
ARCHITECTURE
25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27638 252-355-1068

STAR COMMUNICATIONS
NEW OPERATIONS BUILDING
CLINTON, NC

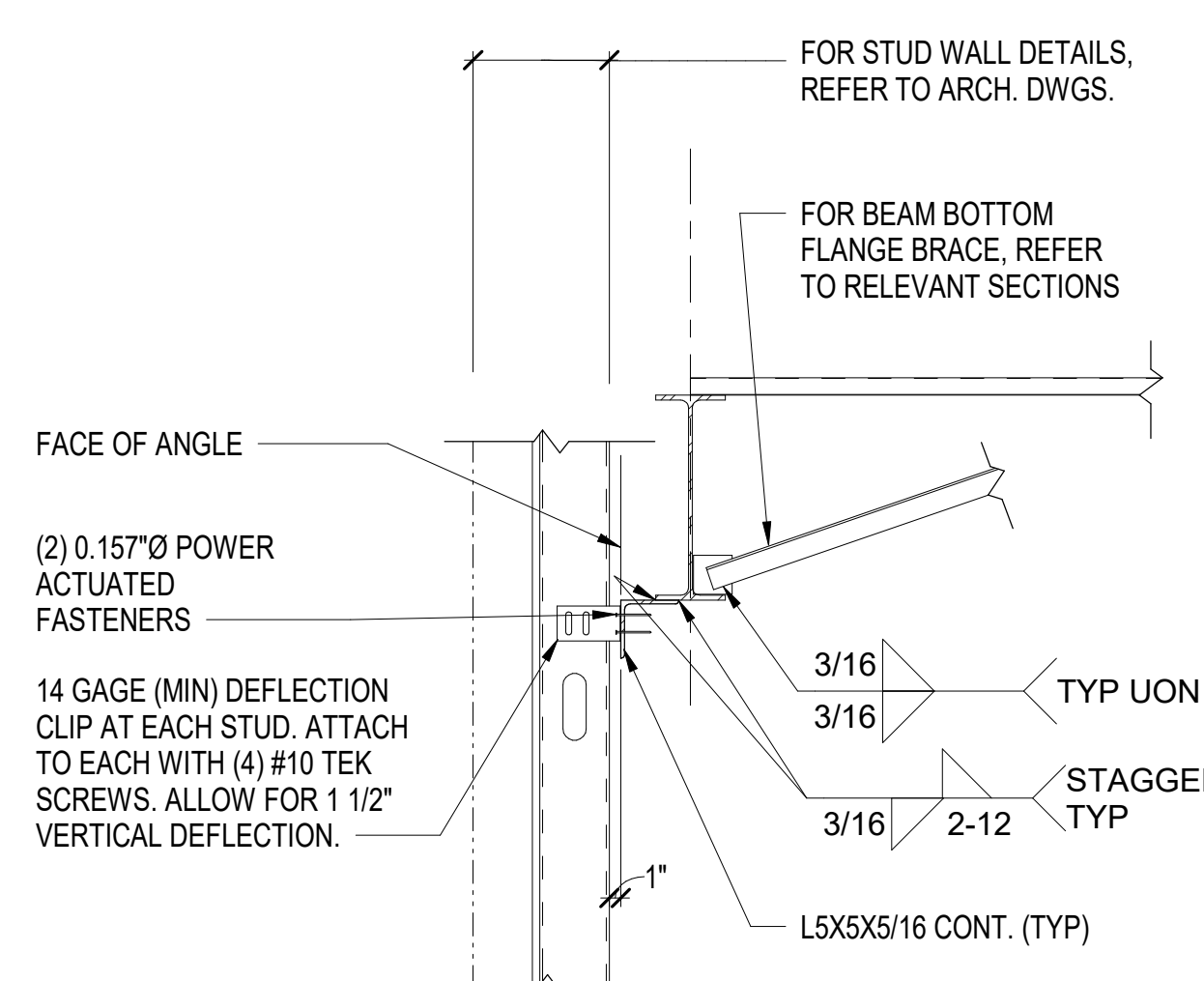
DRAWING TITLE
TYPICAL DETAILS

SCALE	As indicated
DRAWN	JSS
CHECKED	KMR
DATE	7-15-2023
PROJECT NO.	2022-17

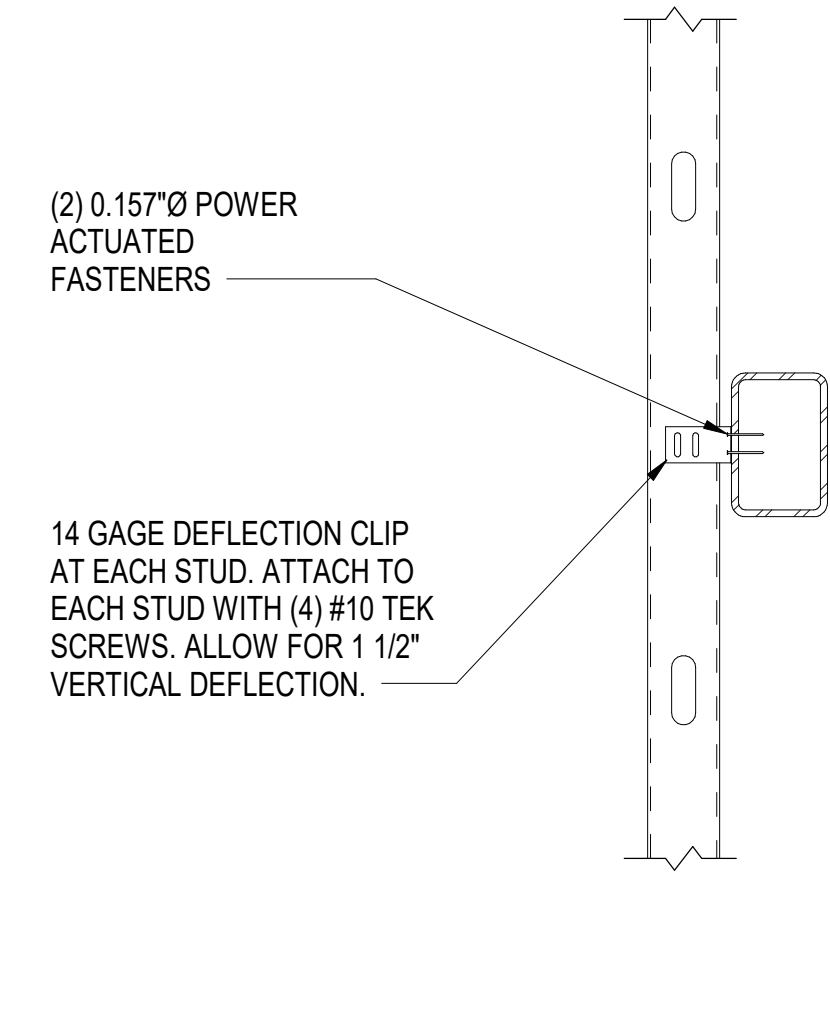
2S5.1



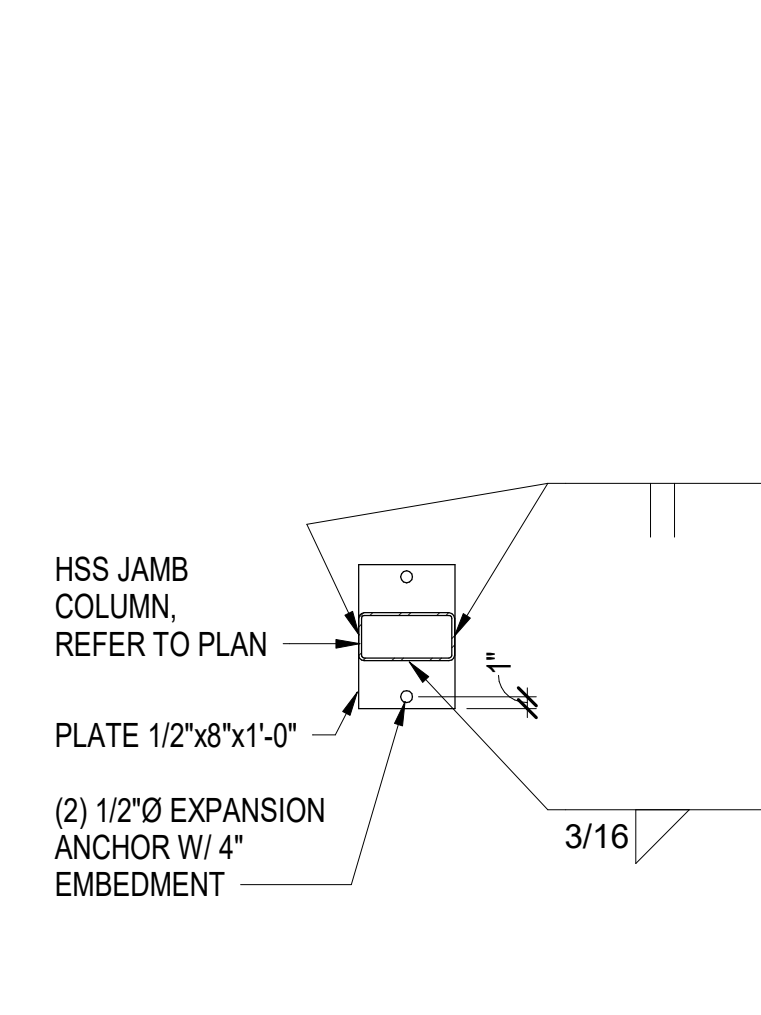
TYPICAL DETAILS AT EXTERIOR WALL OPENINGS
 NOT TO SCALE



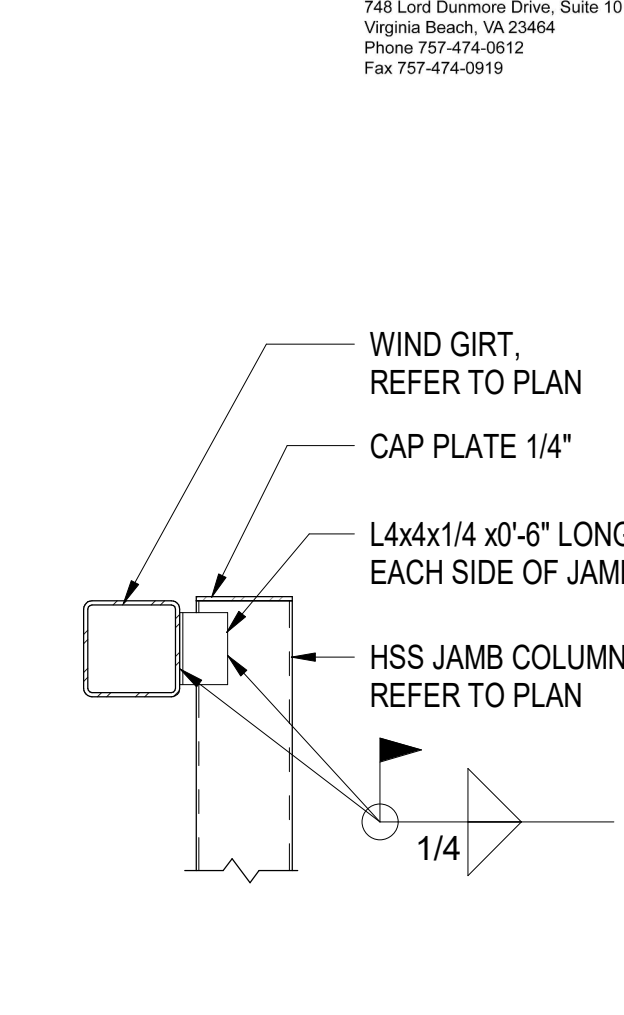
TYPICAL EXTERIOR LIGHT GAGE STUD BRACING DETAILS
 NOT TO SCALE



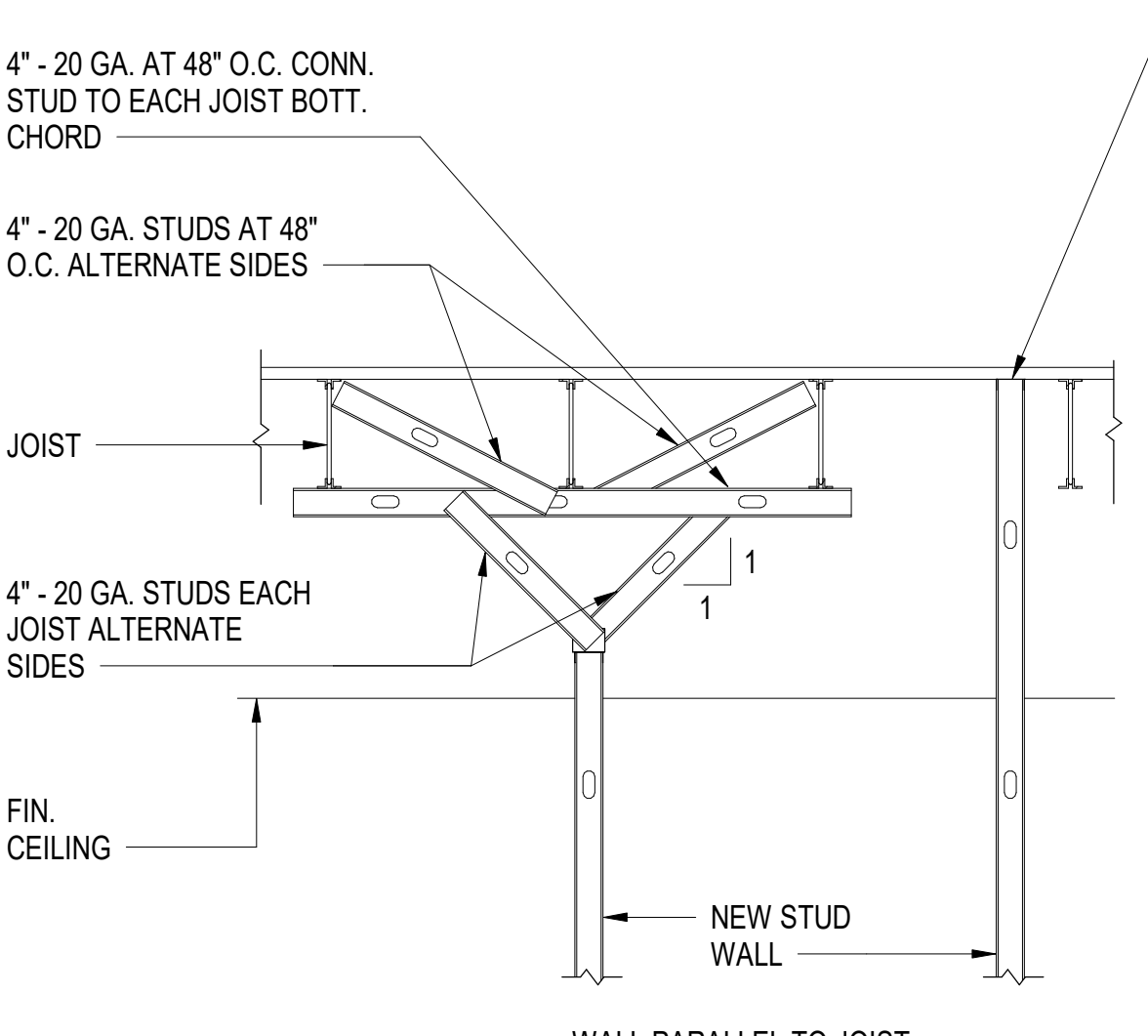
TYPICAL JAMB CONNECTION DETAILS
 NOT TO SCALE



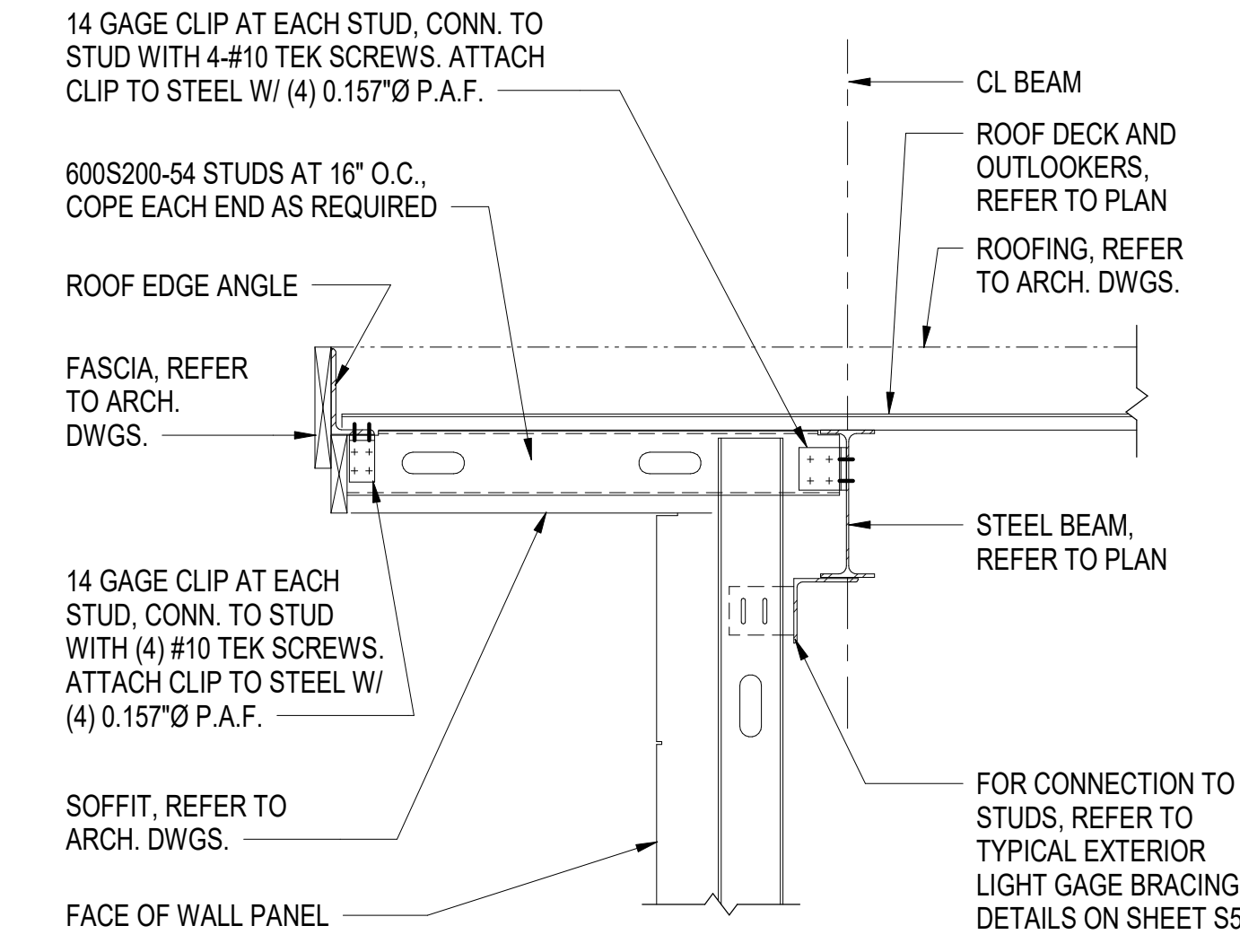
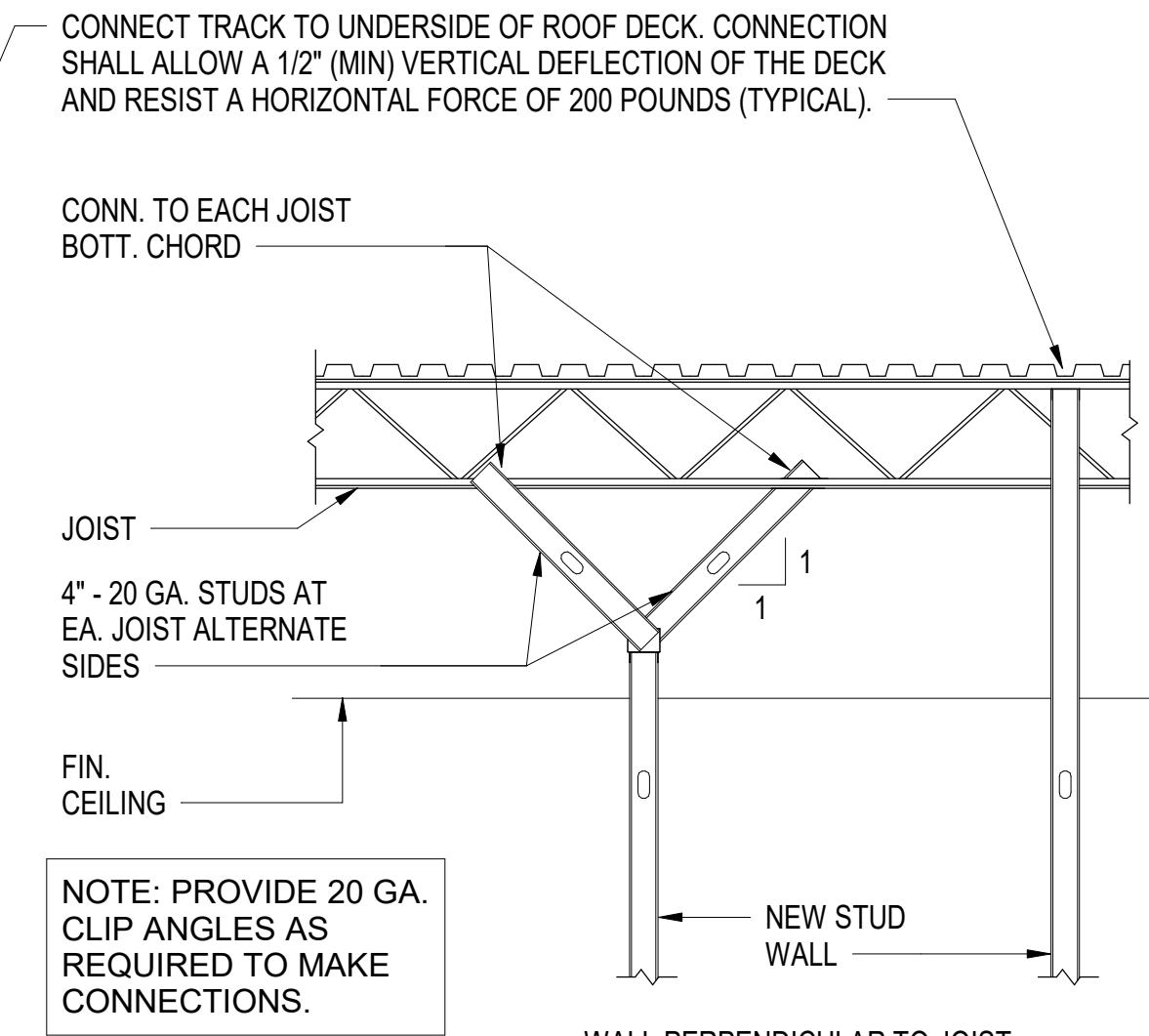
JAMB CONNECTION TO FOOTING



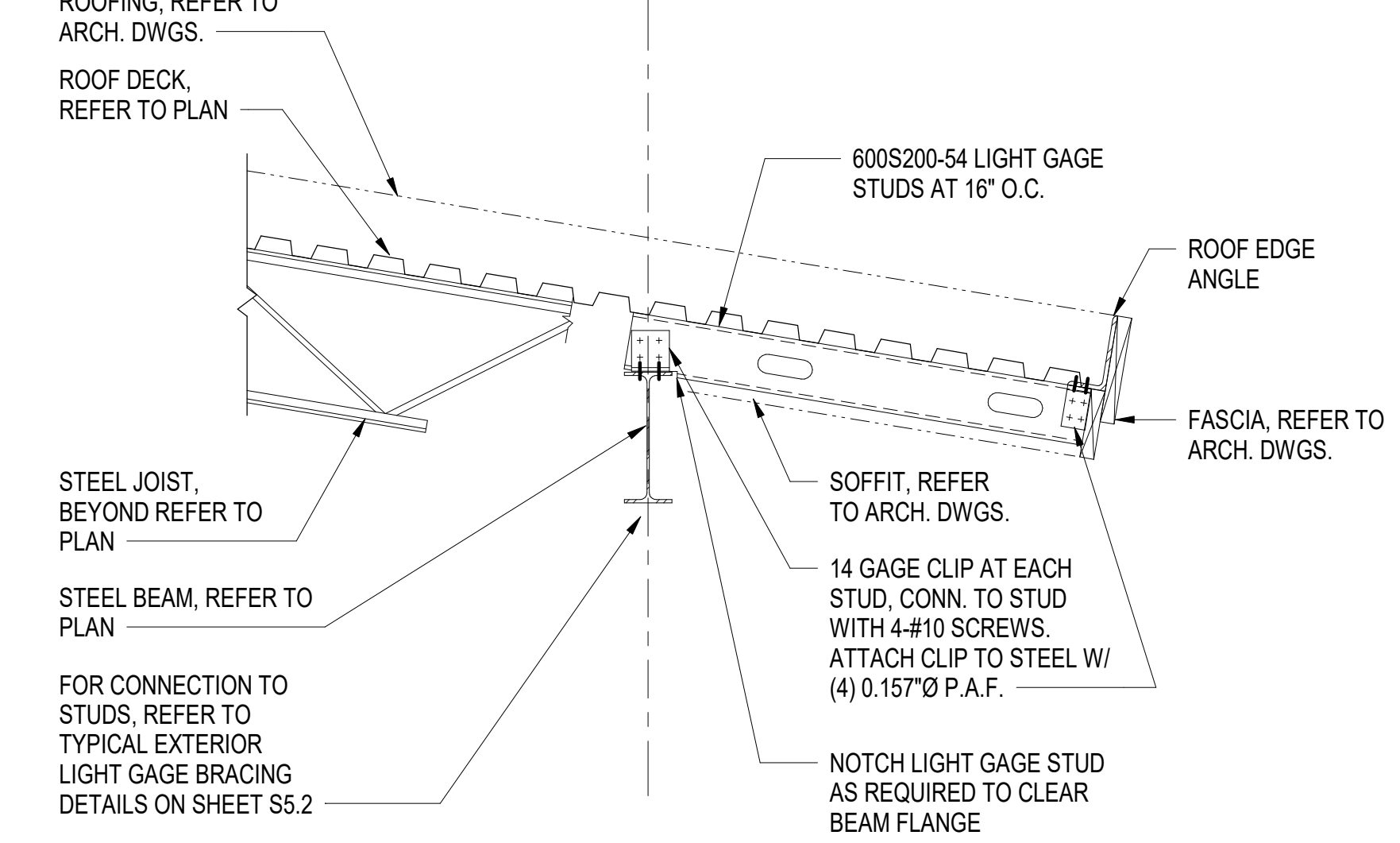
JAMB CONNECTION TO GIRT



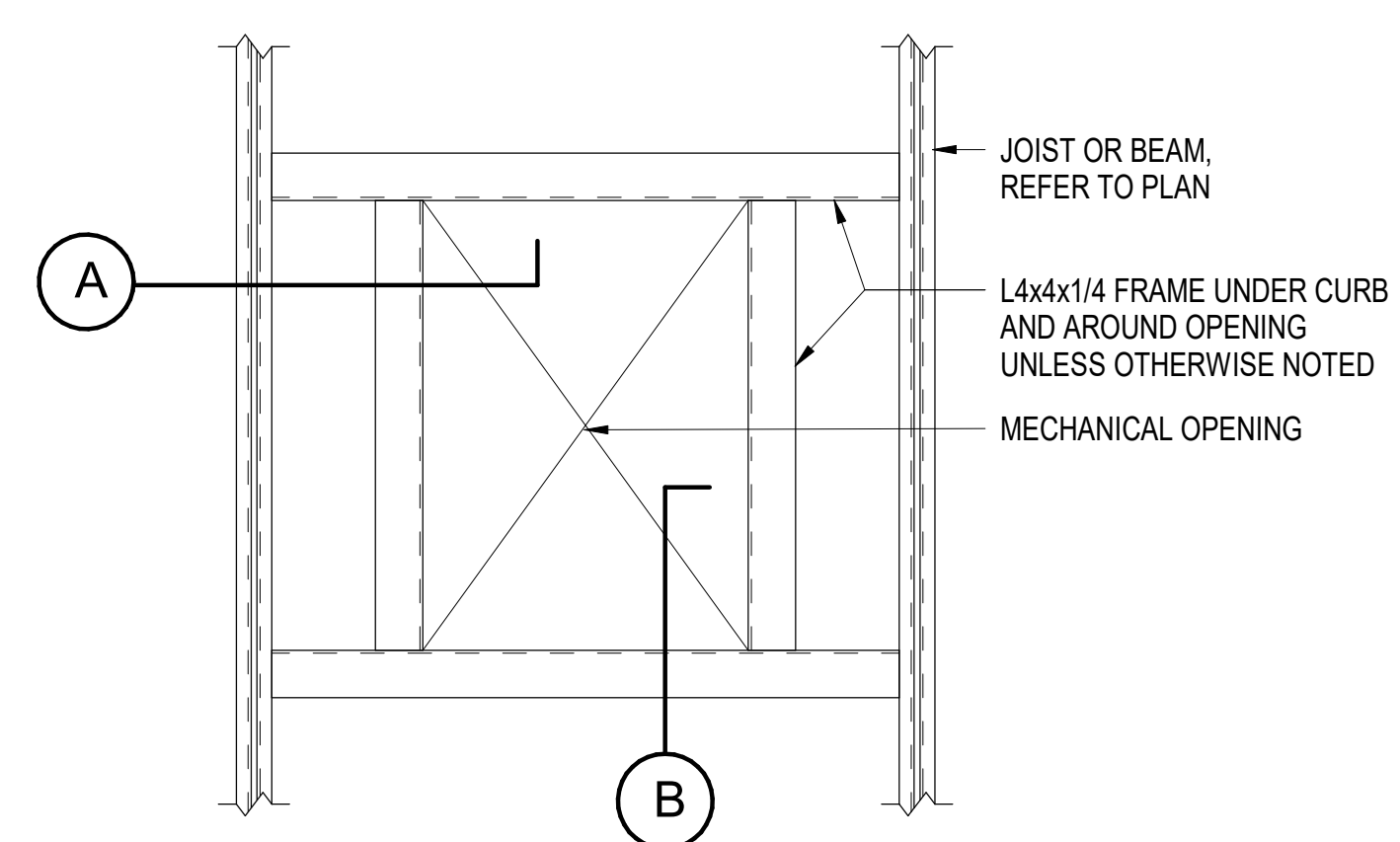
TYPICAL METAL STUD WALL BRACING DETAILS
 NOT TO SCALE



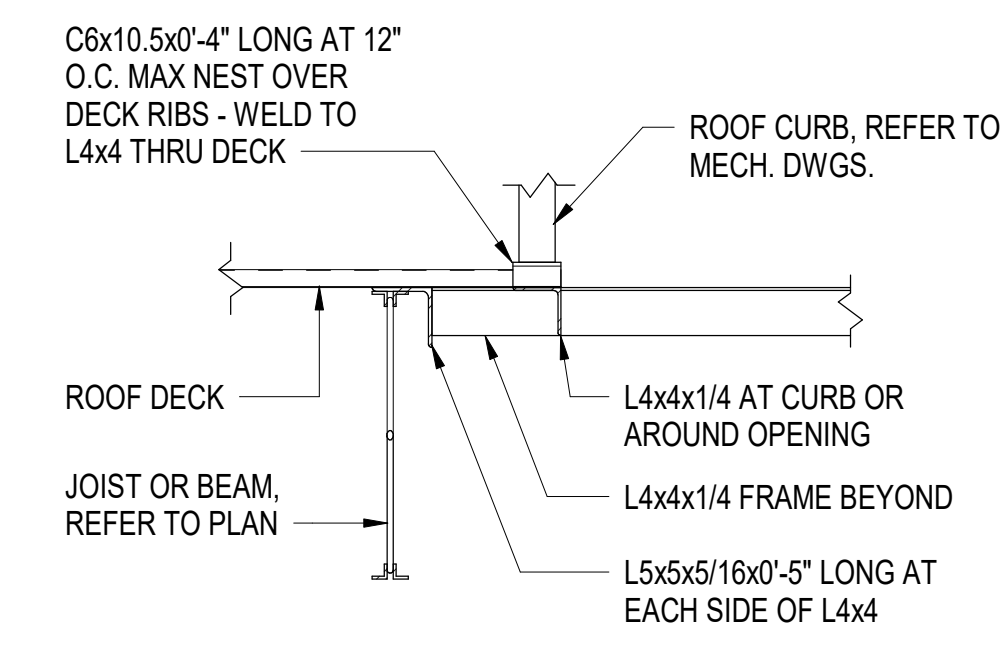
TYPICAL ROOF OVERHANG SOFFIT FRAMING AT OUTLOOKERS DETAIL
 NOT TO SCALE



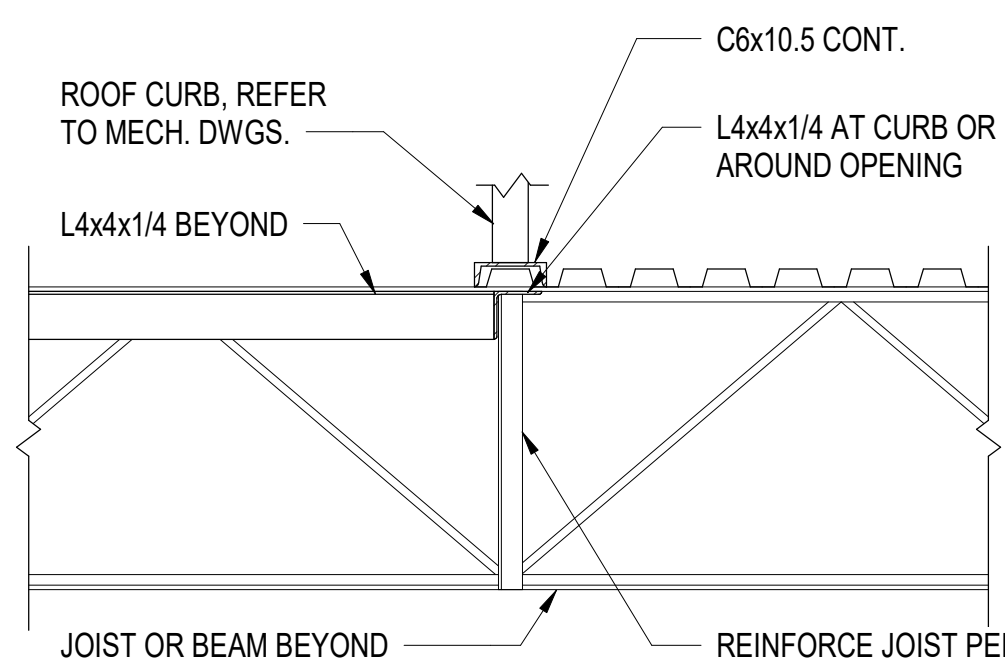
TYPICAL ROOF OVERHANG SOFFIT FRAMING AT LOW AND HIGH END DETAIL
 NOT TO SCALE



PLAN



SECTION A



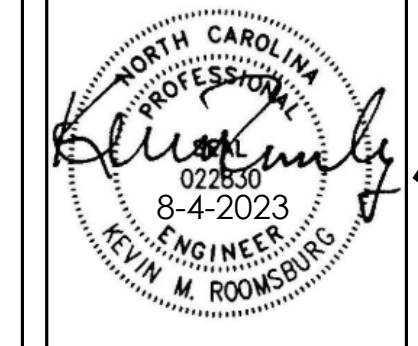
SECTION B

TYPICAL ROOF TOP MECHANICAL UNIT AND OPENING SUPPORT DETAIL
 NOT TO SCALE

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE



J K F
 ARCHITECTURE

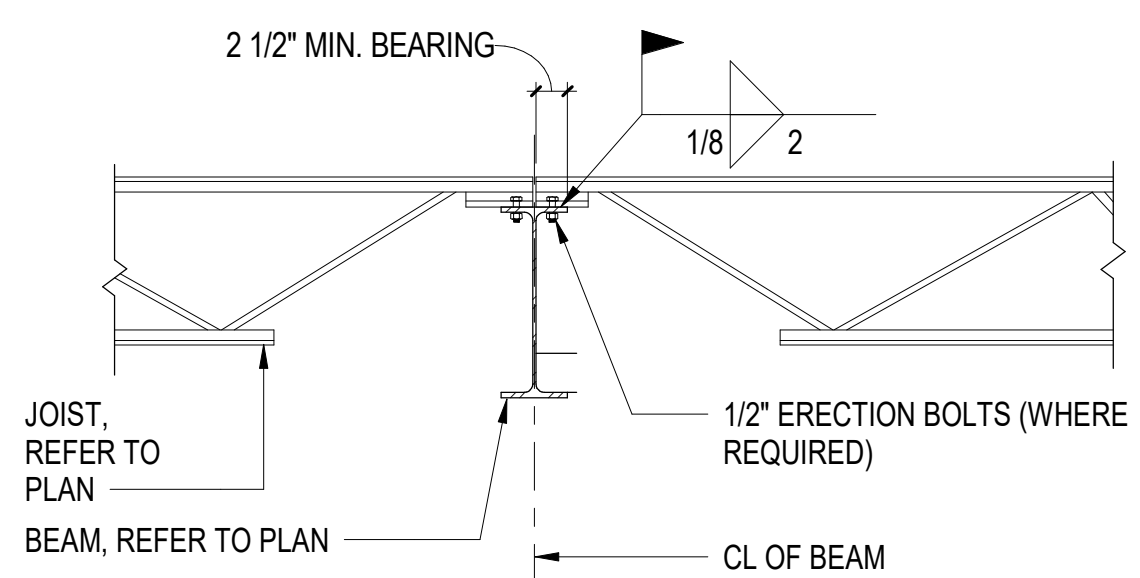
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27638 252-355-1068

STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
TYPICAL DETAILS

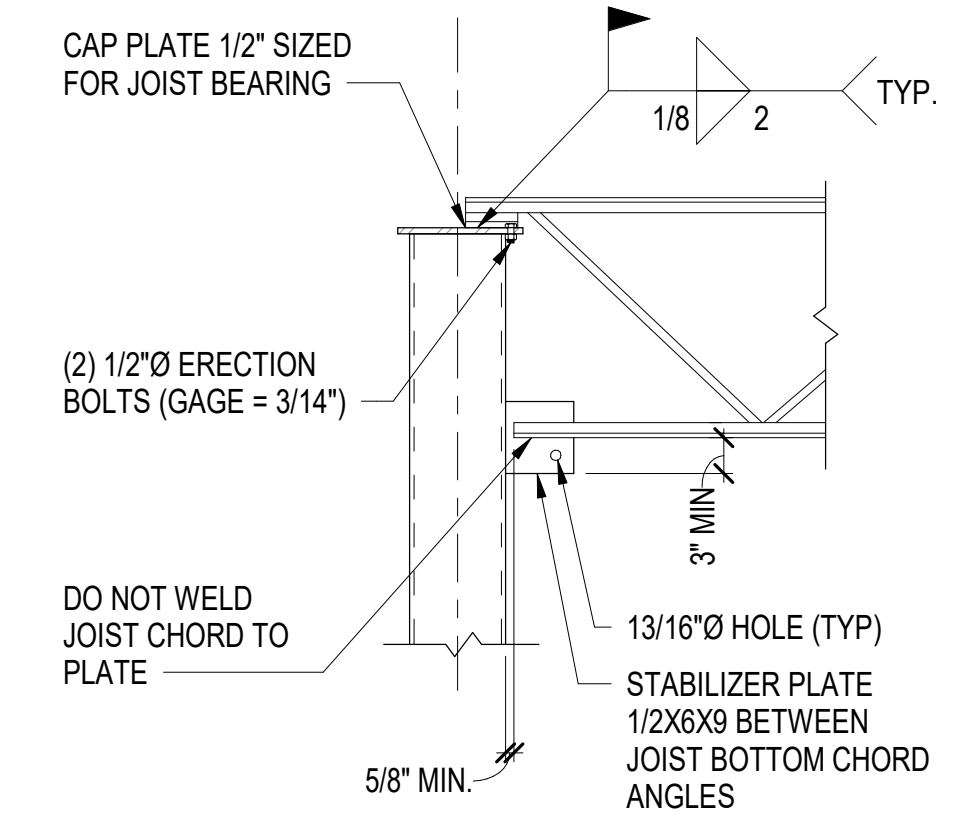
SCALE	As indicated
DRAWN	JSS
CHECKED	KMR
DATE	7-15-2023
PROJECT NO.	2022-17

2S5.2

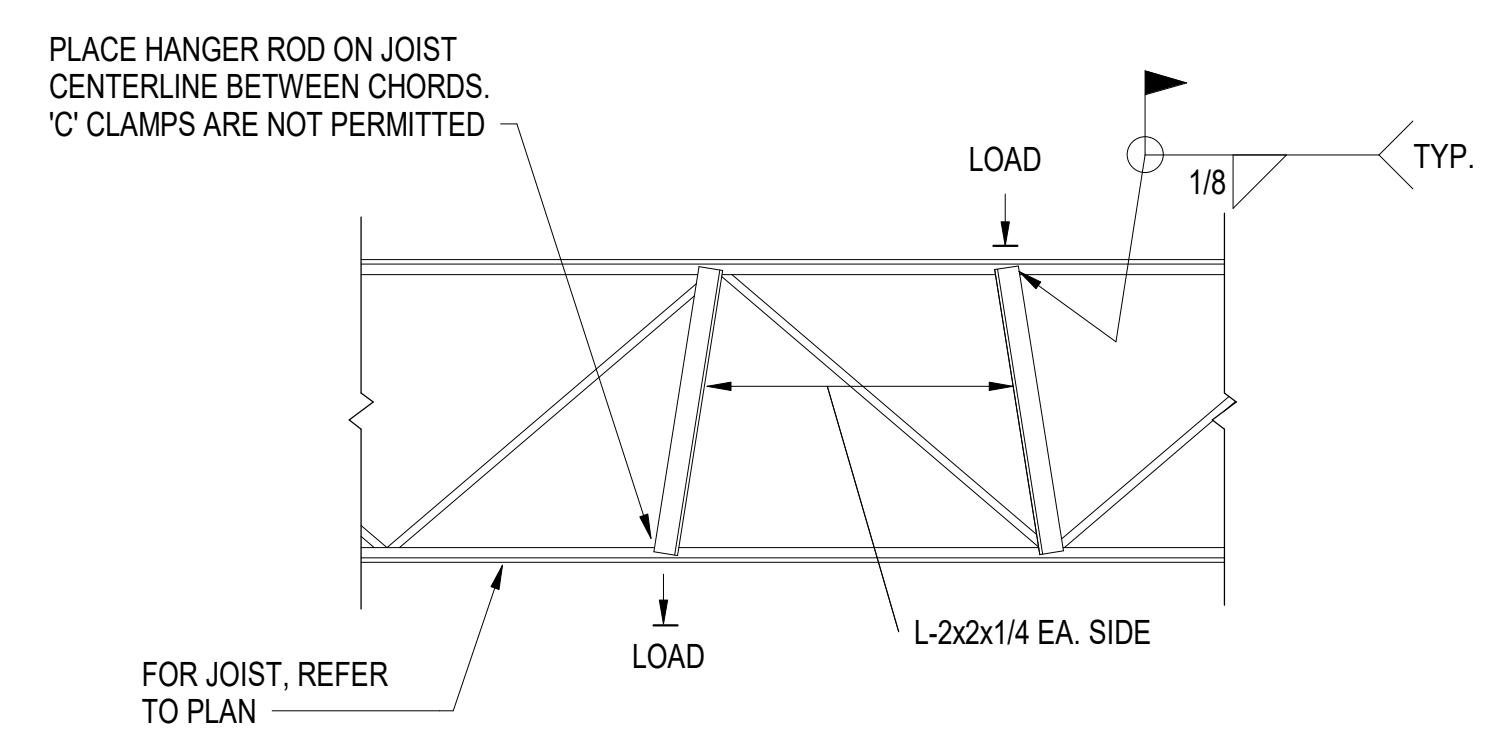


NOTE: OFFSET JOIST TO PROVIDE MINIMUM REQUIRED BEARING. BUTT JOISTS END TO END OVER BEAM CENTERLINE AND PROVIDE SPECIAL JOIST END PER S.J.I. REQUIREMENTS WHERE JOISTS MUST BE ALIGNED.

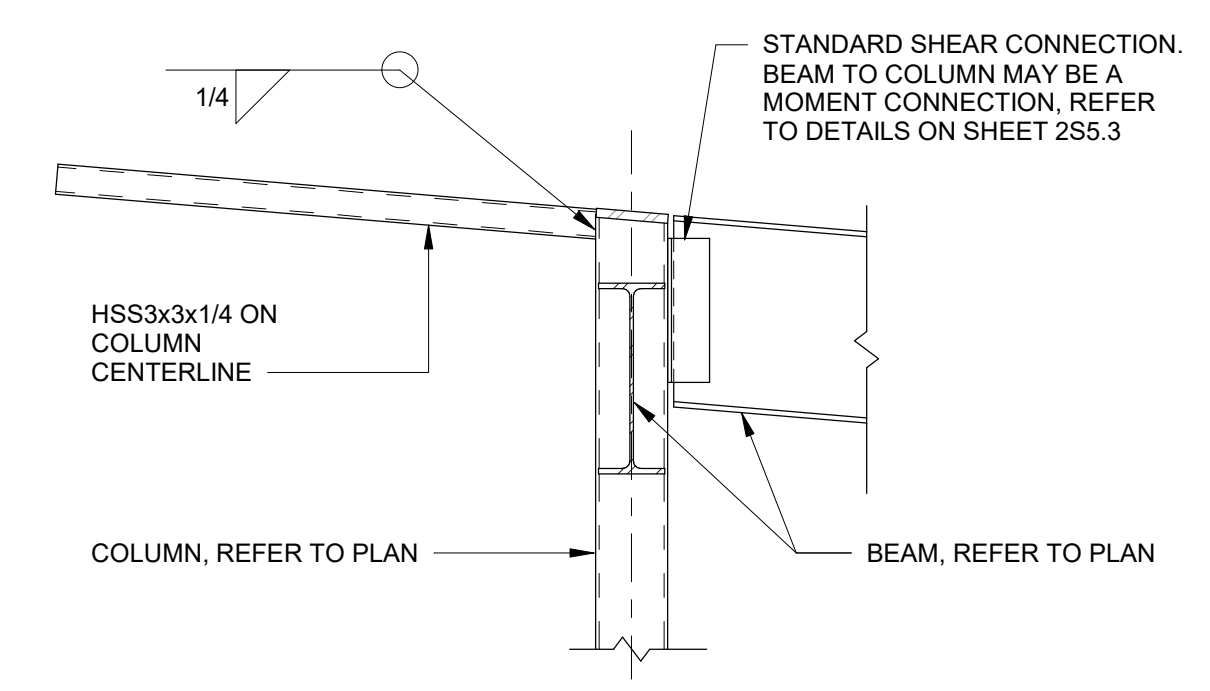
TYPICAL JOIST TO BEAM CONNECTION DETAIL
NOT TO SCALE



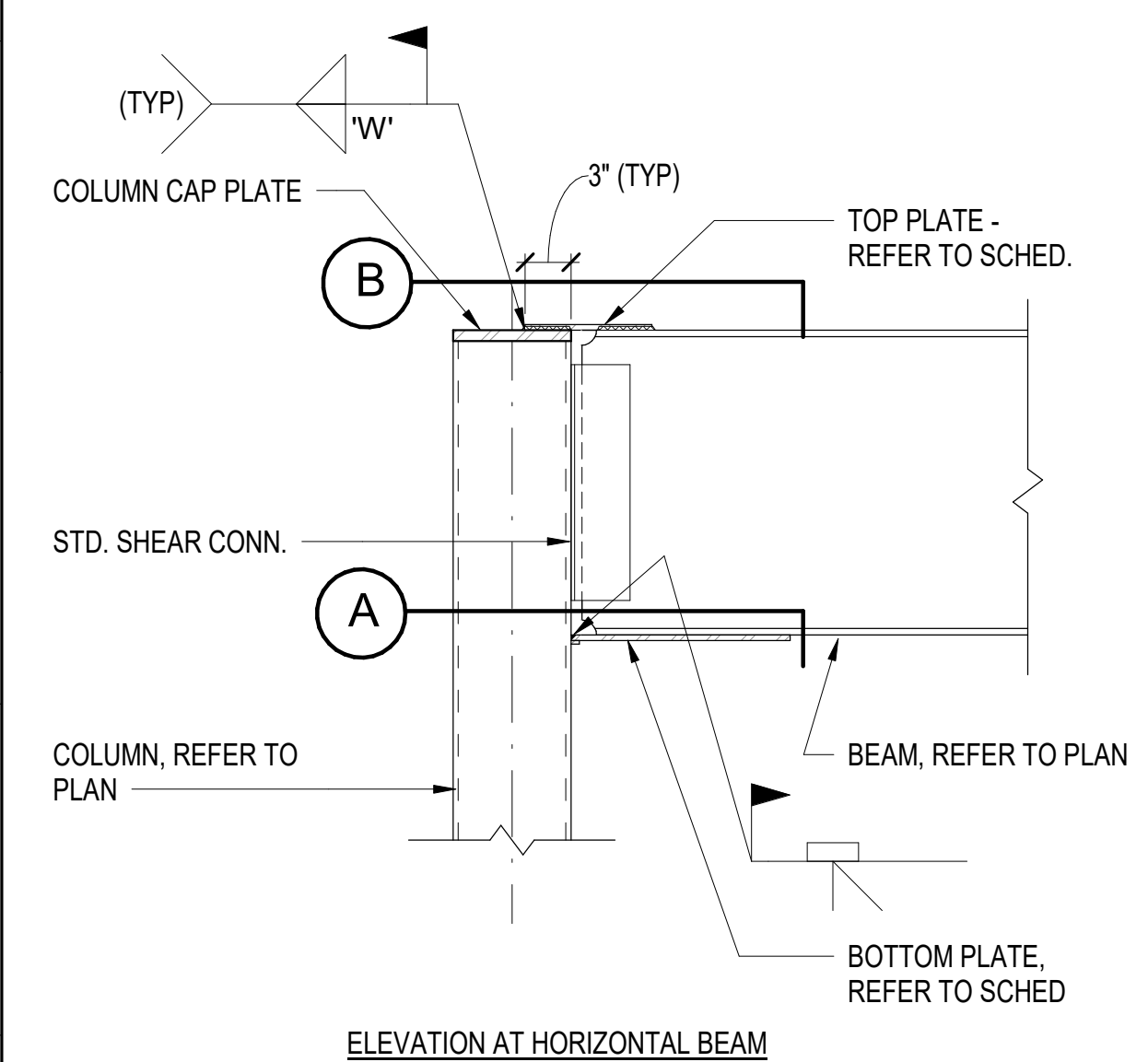
TYPICAL JOIST TO COLUMN CONNECTION DETAIL
NOT TO SCALE



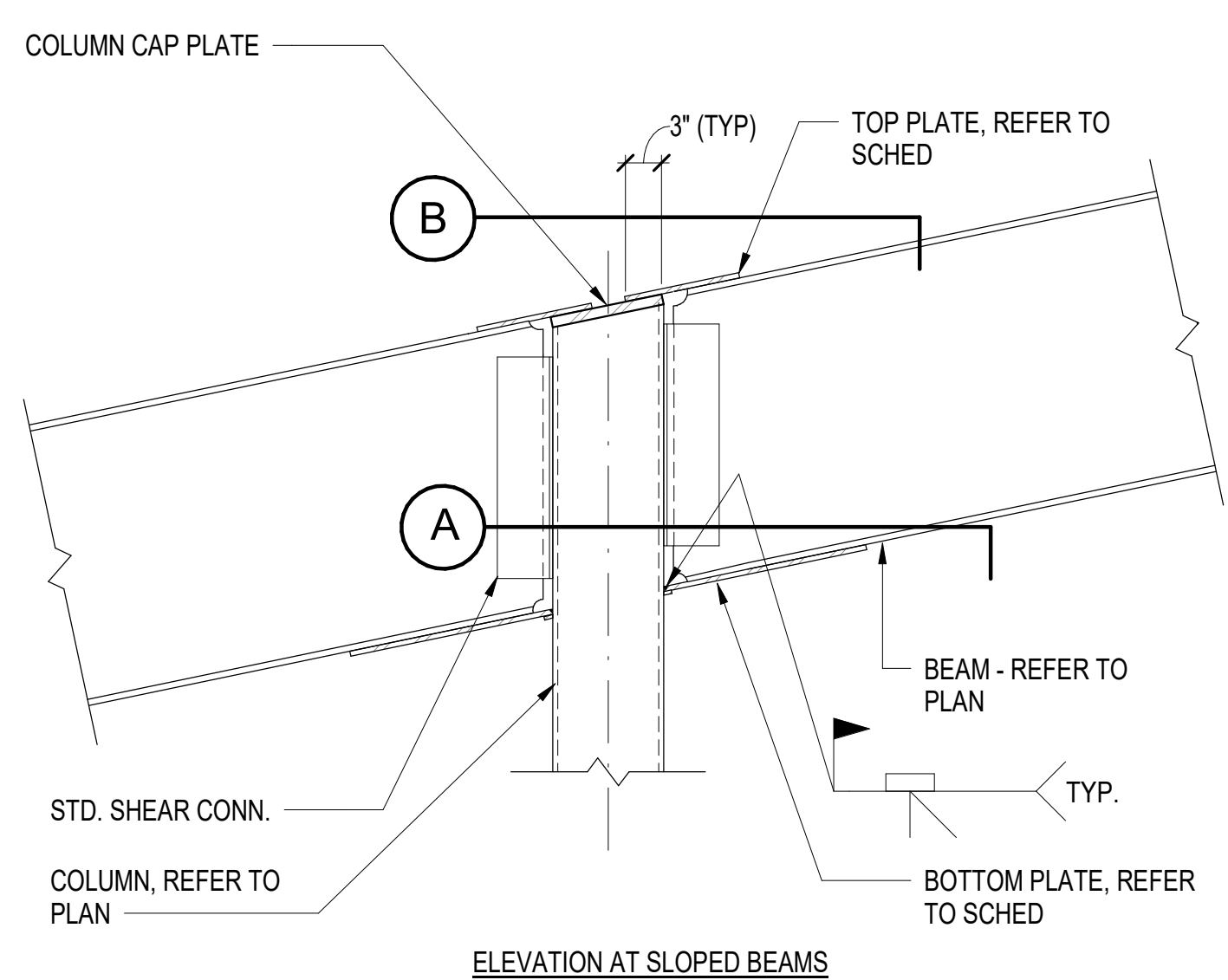
TYPICAL ADDED REINF. AT JOIST SUPPORTING LOADS BETWEEN PANEL POINTS
NOT TO SCALE



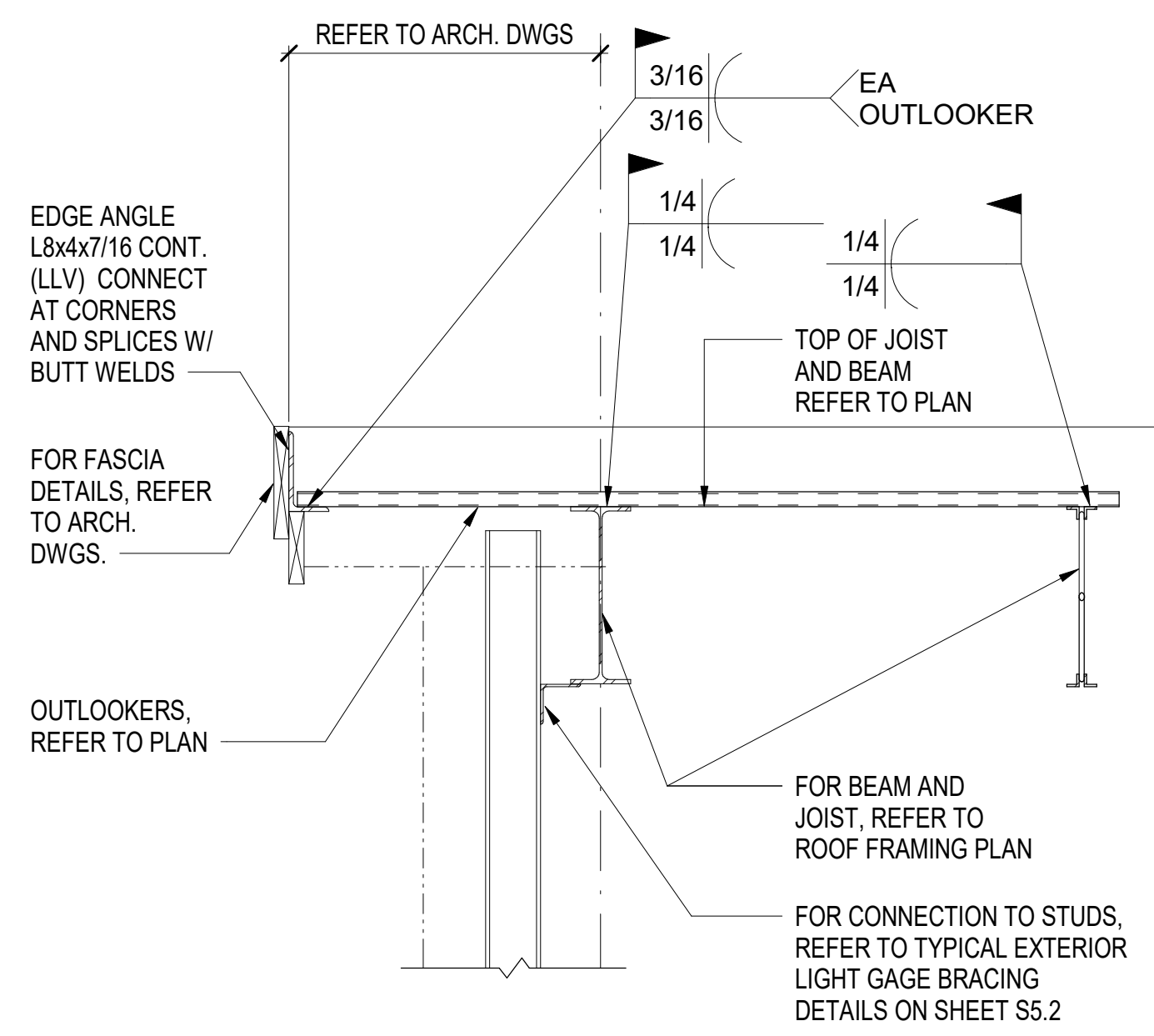
TYPICAL BEAM EXTENSION DETAIL
NOT TO SCALE



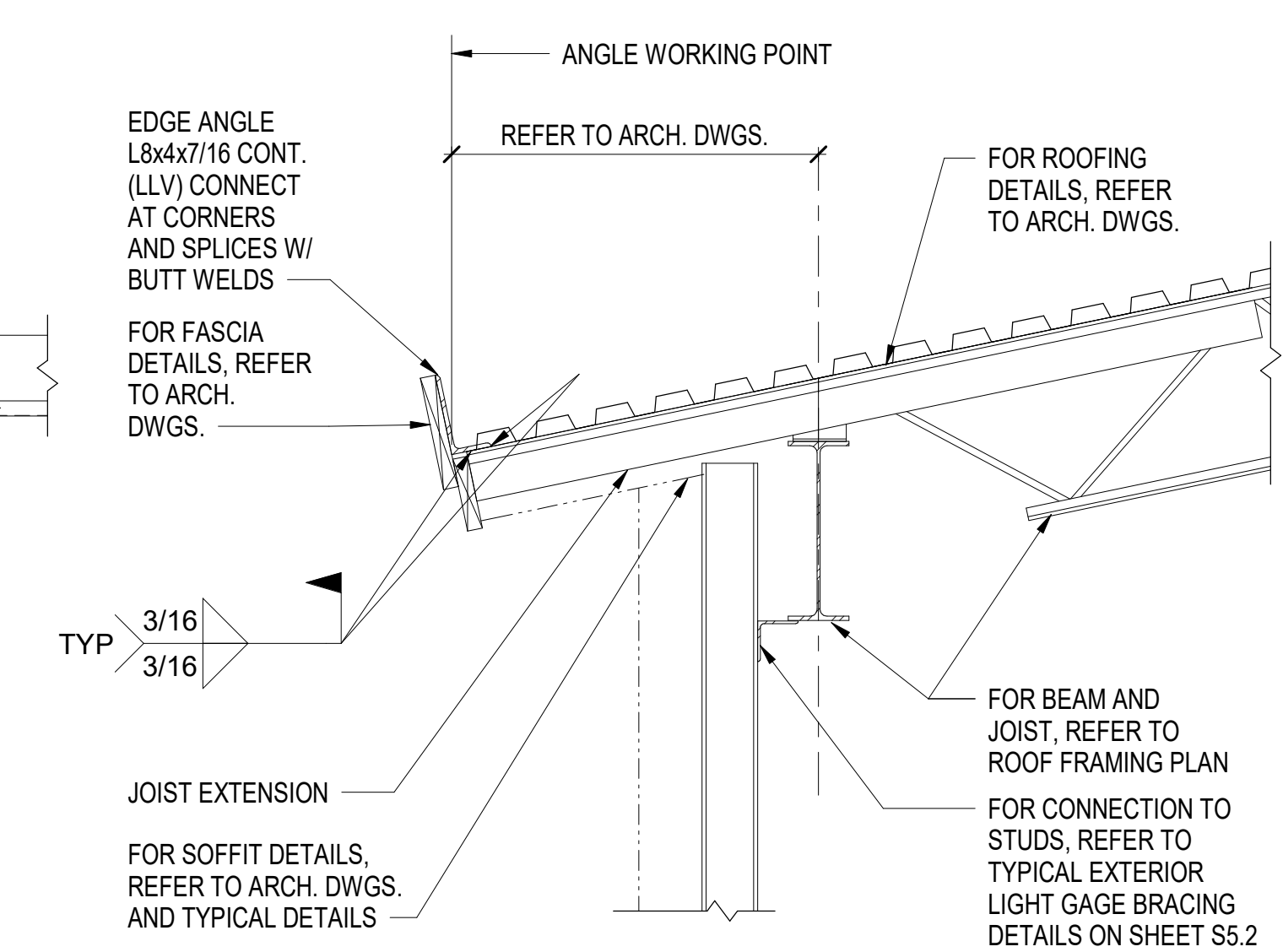
ELEVATION AT HORIZONTAL BEAM



ELEVATION AT SLOPED BEAMS

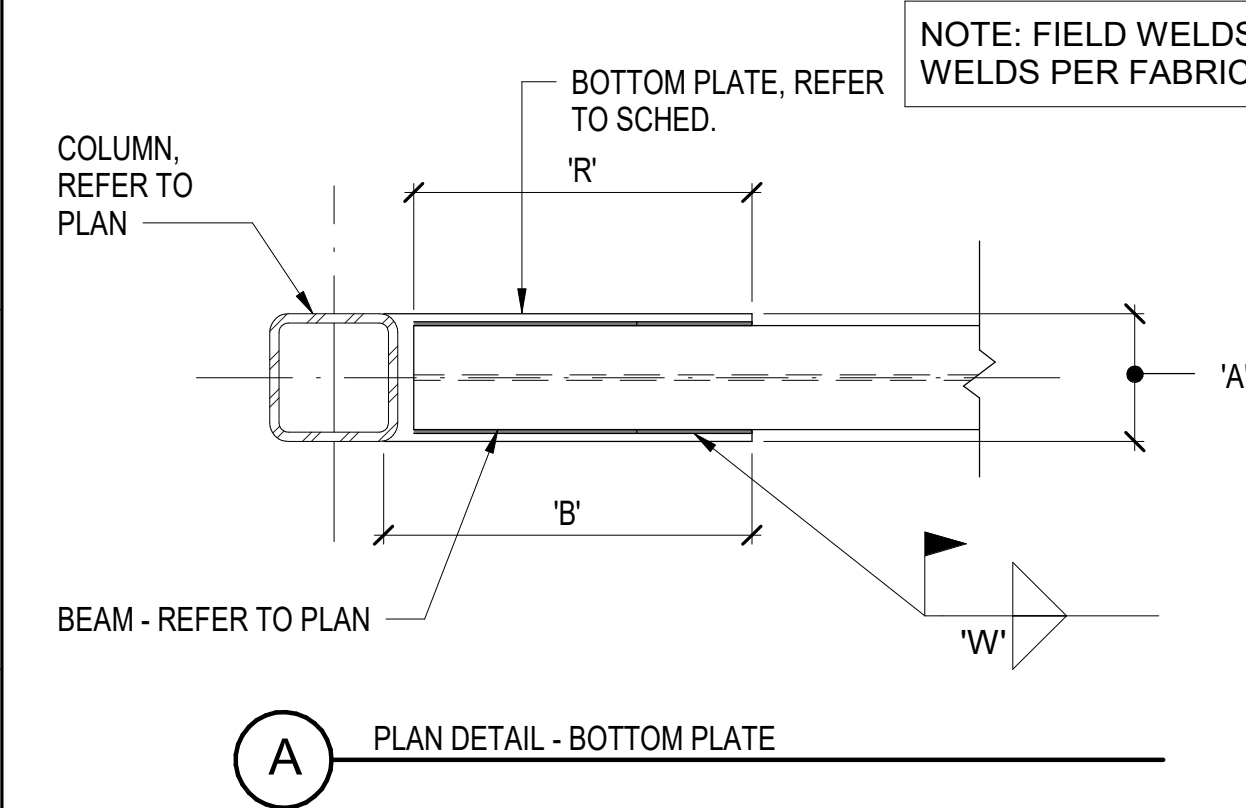


CONDITION AT EAVES WITH OUTLOOKER

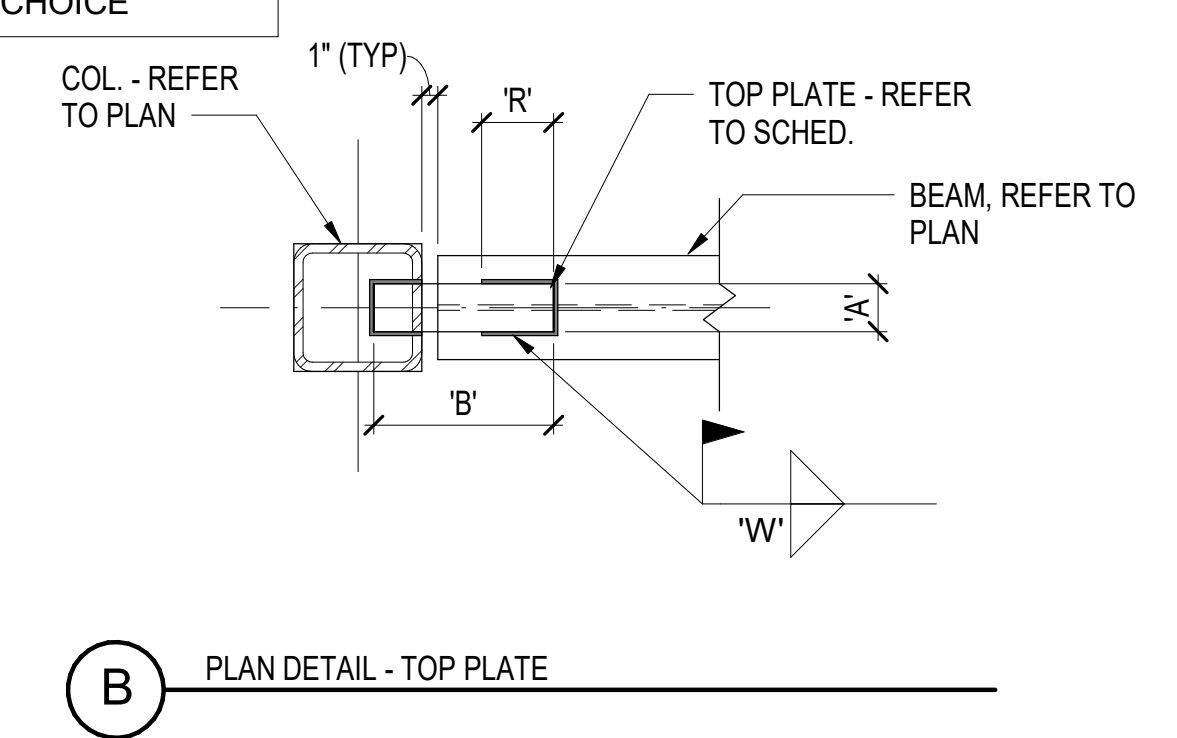


CONDITION AT JOIST EXTENDED ENDS

TYPICAL ROOF EDGE DETAILS
NOT TO SCALE



PLAN DETAIL - BOTTOM PLATE

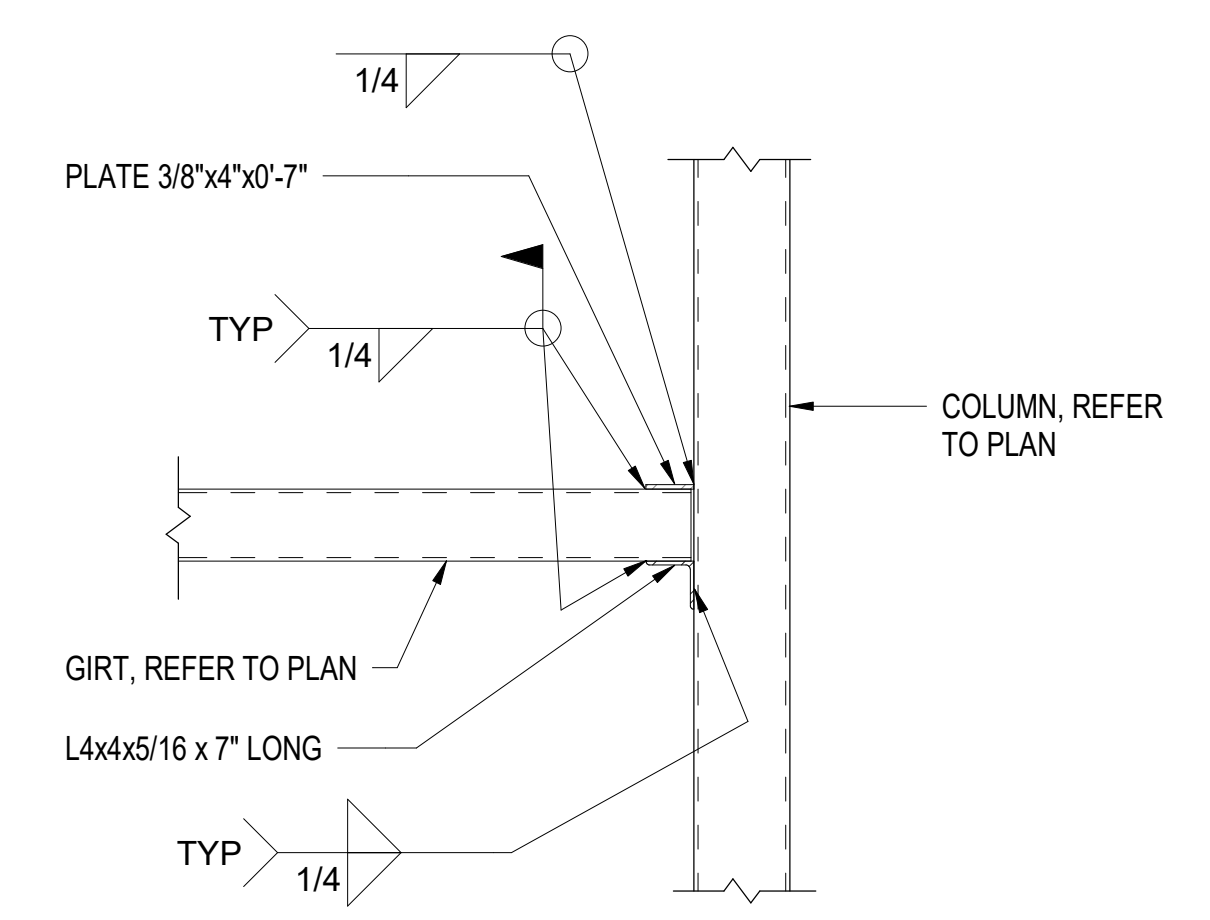


PLAN DETAIL - TOP PLATE

BEAM	DIMENSIONS (INCH)		THICKNESS	WELDS	
	'A'	'B'		'R'	'W'
W16x26	6 1/2	5	3/8	4	1/4
W18x35	7	7	1/2	6	1/4

BEAM	DIMENSIONS (INCH)		THICKNESS	WELDS	
	'A'	'B'		'R'	'W'
W16x26	4 1/2	5	3/8	4	1/4
W18x35	5	6	1/2	5	1/4

TYPICAL MOMENT CONNECTION DETAILS
NOT TO SCALE



TYPICAL GIRT TO COLUMN CONNECTION DETAIL
NOT TO SCALE

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

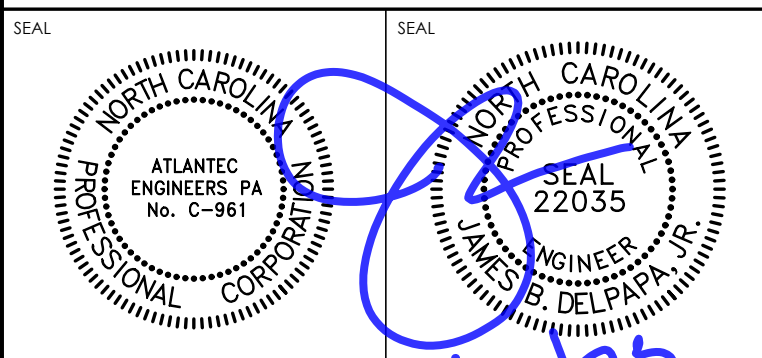
J K F
 ARCHITECTURE
 425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1068

STAR COMMUNICATIONS
 NEW OPERATIONS BUILDING
 CLINTON, NC

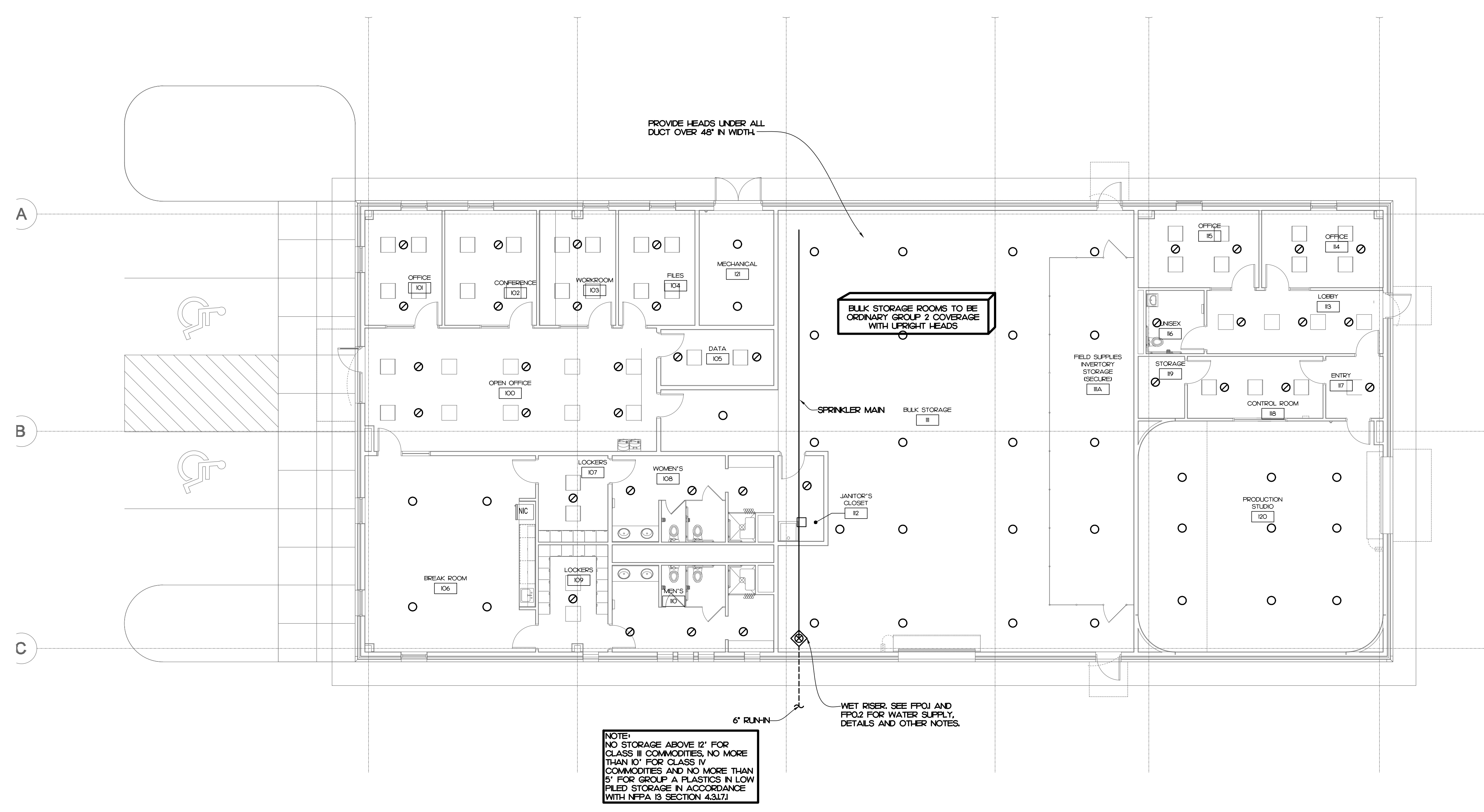
DRAWING TITLE
TYPICAL DETAILS

SCALE	As indicated
DRAWN	JSS
CHECKED	KMR
DATE	7-15-2023
PROJECT NO.	2022-17

2S5.3



8/4/23



NOTE: NO STORAGE ABOVE 12' FOR CLASS III COMMODITIES, NO MORE THAN 10' FOR CLASS IV COMMODITIES AND NO MORE THAN 15' FOR GROUP A PLASTICS IN LOW RISED STORAGE IN ACCORDANCE WITH NFPA 13 SECTION 4.3.1.7

NOTE: LIGHT COVERAGE PROVIDED UNLESS OTHERWISE NOTED

KEY PLAN

NO	REVISION	DATE

J K F
 ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1048

STAR COMMUNICATIONS NEW
 OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
 OPERATIONS BUILDING
 FIRE PROTECTION
 PLAN

SCALE	AS NOTED	DRAWING NO 2FP1.1
DRAWN	JAD	
CHECKED	BWF	
DATE	07-15-2023	
PROJECT NO.	2022-17	

OPERATIONS BUILDING FIRE PROTECTION PLAN

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

A15

GENERAL NOTES

1. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION (LIGHTS, PIPES, ETC.).
2. THE SPRINKLER CONTRACTOR SHALL COORDINATE SHUT-OFF TIMES WITH OWNER.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL NFPA CODES, 13 & 72.
4. THE SPRINKLER CONTRACTOR SHALL BE A LICENSED SPRINKLER CONTRACTOR.
5. WIRING FROM ALL TAMPER SWITCHES AND FLOW SWITCHES TO FIRE ALARM PANEL SHALL BE BY THE ELECTRICAL CONTRACTOR.
6. ALL CUTTING AND PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
7. ALL PIPE UP TO 2" SHALL BE SCHEDULE 40, BLACK STEEL WITH THREADED FITTING. PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH ROLLED GROOVE FITTING.
8. ALL HEADS ARE TO BE CENTERED IN TILES UNLESS OTHERWISE NOTED.
9. TESTING SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. PRESSURE TEST SHALL BE STATIC WATER AT TEST PRESSURE OF 200 PSIG FOR 2 HOURS DURATION WITHOUT LEAK FROM ANY JOINT OR SEGMENT OF THE PIPING SYSTEM FROM ANY EQUIPMENT OR DEVICE.
10. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE WORK OF OTHER, TO BUILDING AND PROPERTY / MATERIALS OF OTHERS CAUSED BY LEAKS IN SPRINKLER EQUIPMENT, UNPLUGGED OR DISCONNECTED PIPES FOR FITTINGS, AND SHALL PAY FOR NECESSARY REPLACEMENT OR REPAIR OF WORK OR ITEMS SO DAMAGED DURING THE INSTALLATION AND TESTING PERIODS OF THE STANDPIPE WORK.
11. TESTS PER SECTION HI OF NFPA 13 TO BE WITNESSED BY THE OWNERS INSURANCE UNDERWRITER(S), THE INSTALLING CONTRACTOR AND THE ARCHITECT / ENGINEER FIELD INSPECTOR - REPRESENTATIVE, SPRINKLER CONTRACTOR TO SUBMIT 3 COPIES OF NFPA 13-1990 "CONTRACTORS MATERIAL AND TEST CERTIFICATES".
12. FLUSH, TEST, AND INSPECT SPRINKLER PIPING SYSTEMS IN ACCORDANCE WITH NFPA 13.
13. REPLACE PIPING SYSTEM COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED, AND RETEST REPAIRED PORTION OF THE SYSTEM. THE CONTRACTOR SHALL PROVIDE A UNIT COST TO ADD ADDITIONAL HEADS REQUIRED IN THE FIELD.
14. THE CONTRACTOR SHALL INCLUDE COST IN CONTRACT TO ADD HEADS REQUIRED IN THE FIELD.
15. THE G.C. TO PAINT EXPOSED PIPING, COORDINATE ROUTING OF PIPING WITH G.C.

ATLANTEC ENGINEERS, PA
 2264
 3221 BLUE RIDGE ROAD, SUITE 103
 RALEIGH, NC 27612
 PH: (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEERS & SURVEYORS
 ATLANTEC ENGINEERS, PA
 No. C-961
 22035
 8/14/23

SYMBOL LEGEND

- ◊ EXISTING SPRINKLER RISER
- EXISTING SPRINKLER MAIN
- NEW BRANCH LINE
- NEW PENDENT, 1/2" ORIFICE, K-5.6, 155F. TYCO TY323L OR EQUAL
- NEW UPRIGHT, 3/4" ORIFICE, K-8.0, 286F. VIKING VK2001 STANDARD RESPONSE OR EQUAL

KEY PLAN

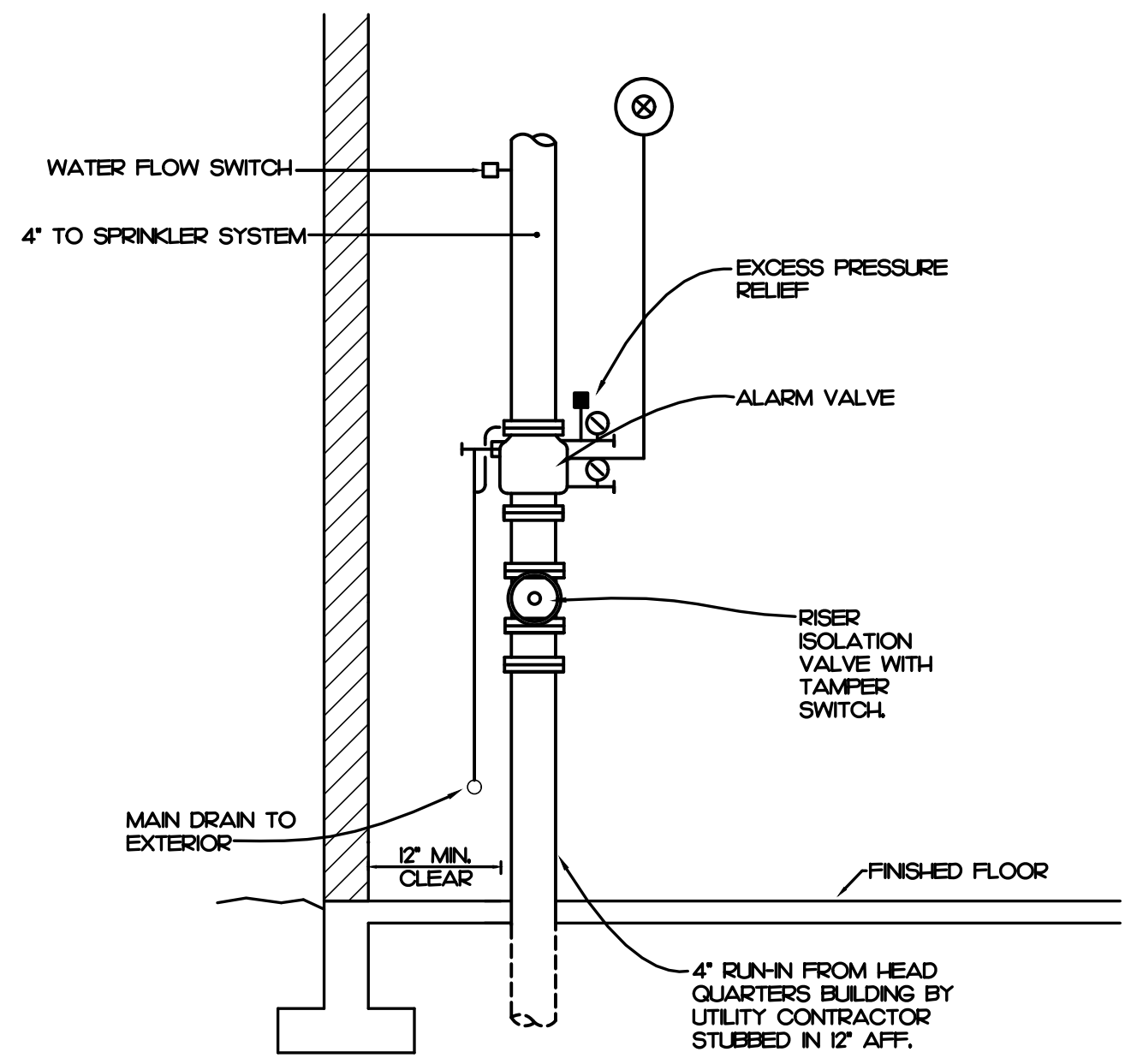
NO	REVISION	DATE

JKF
 ARCHITECTURE

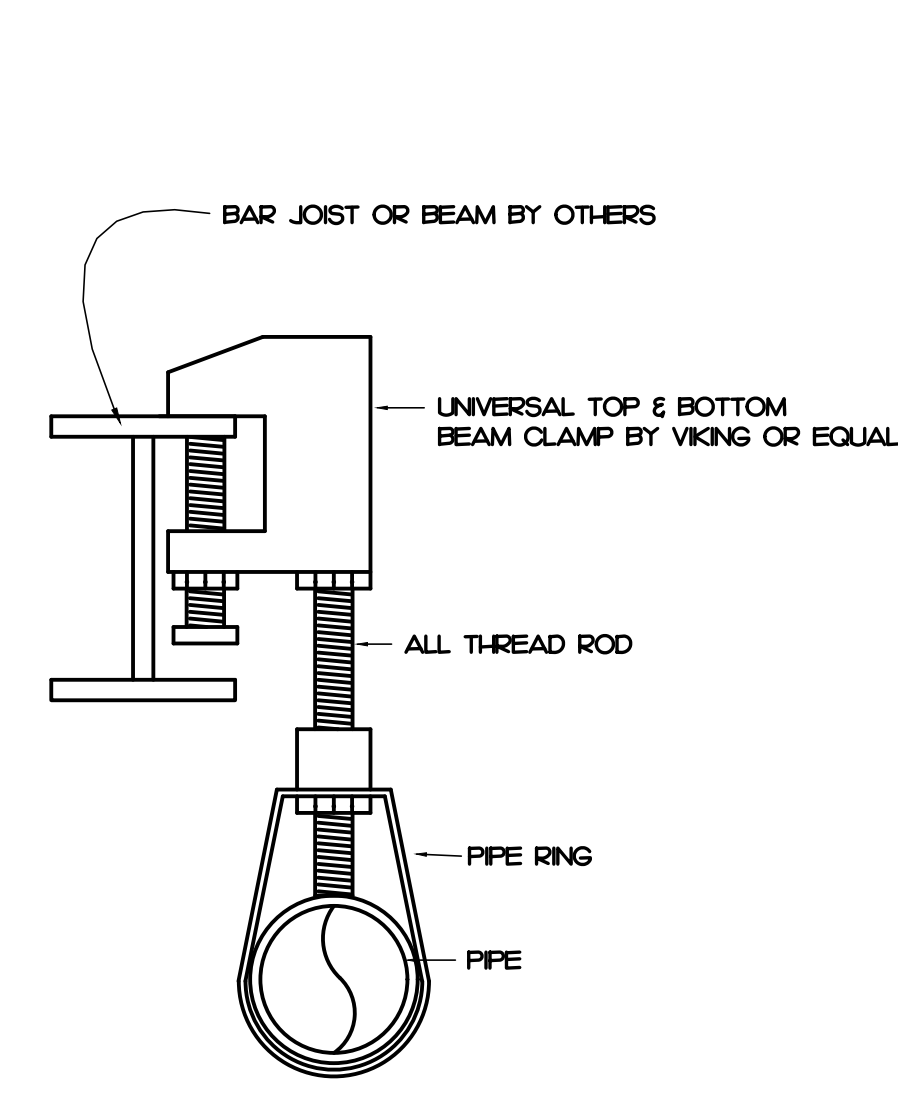
625 LYNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1048
STAR COMMUNICATIONS NEW OPERATIONS BUILDING
 CLINTON, NC

FIRE PROTECTION NOTES, LEGENDS AND DETAILS

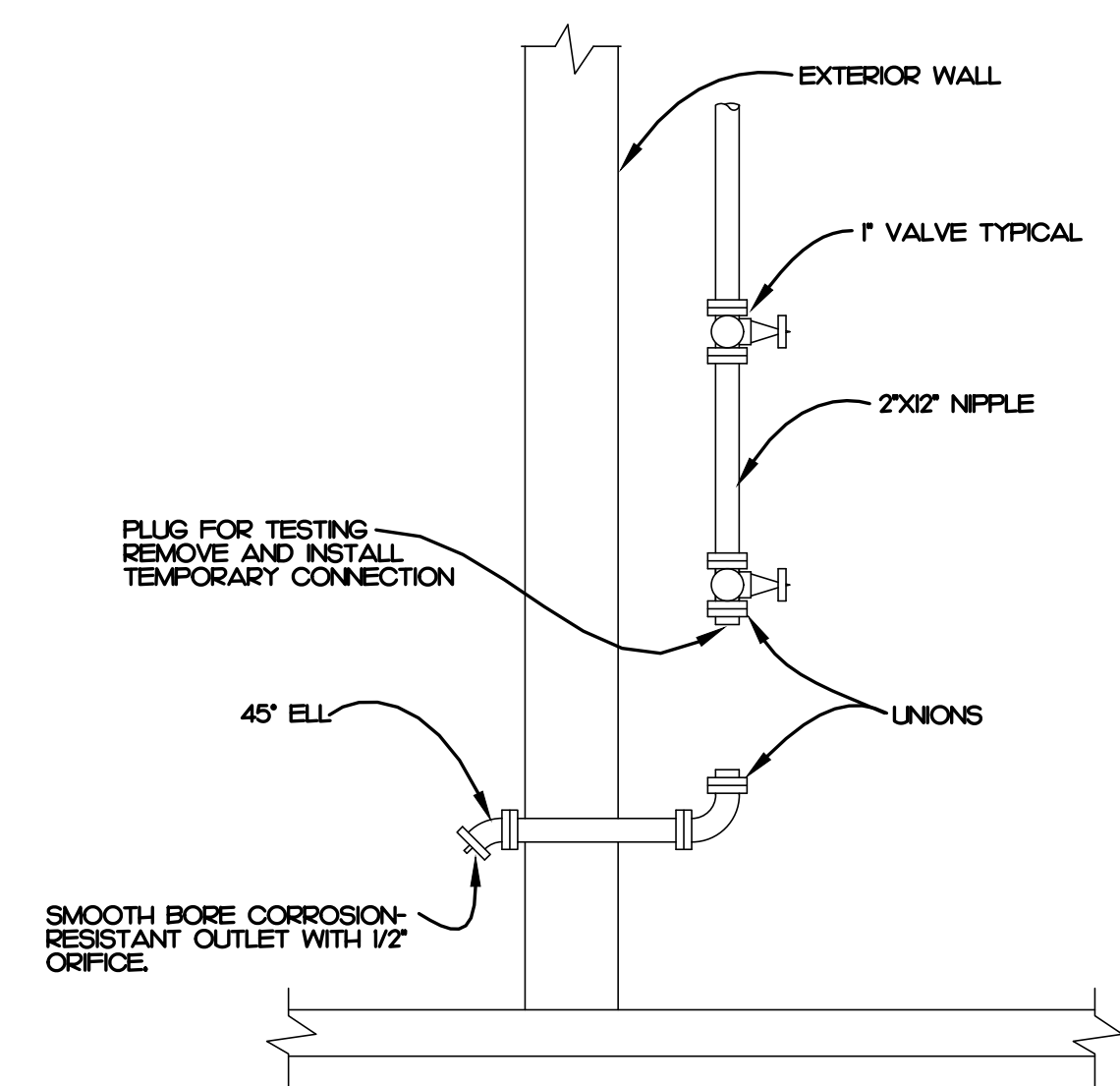
SCALE	AS NOTED	DRAWING NO 2FP2.1
DRAWN	JAD	
CHECKED	BWF	
DATE	07-15-2023	
PROJECT NO.	2022-17	



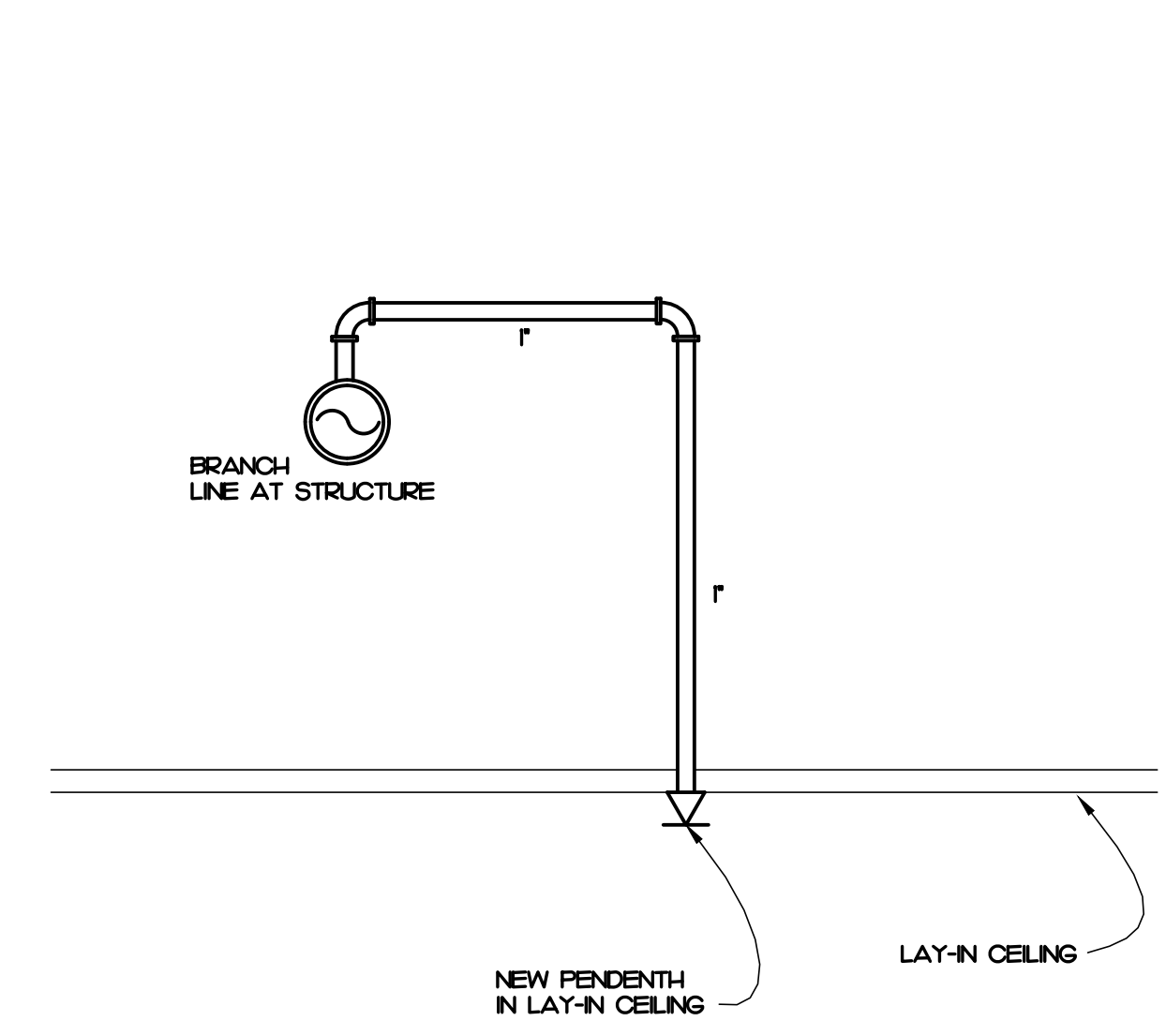
HANGER DETAIL
 SCALE: NOT TO SCALE **A8**



INSPECTOR'S TEST DETAIL
 SCALE: NOT TO SCALE **A11**



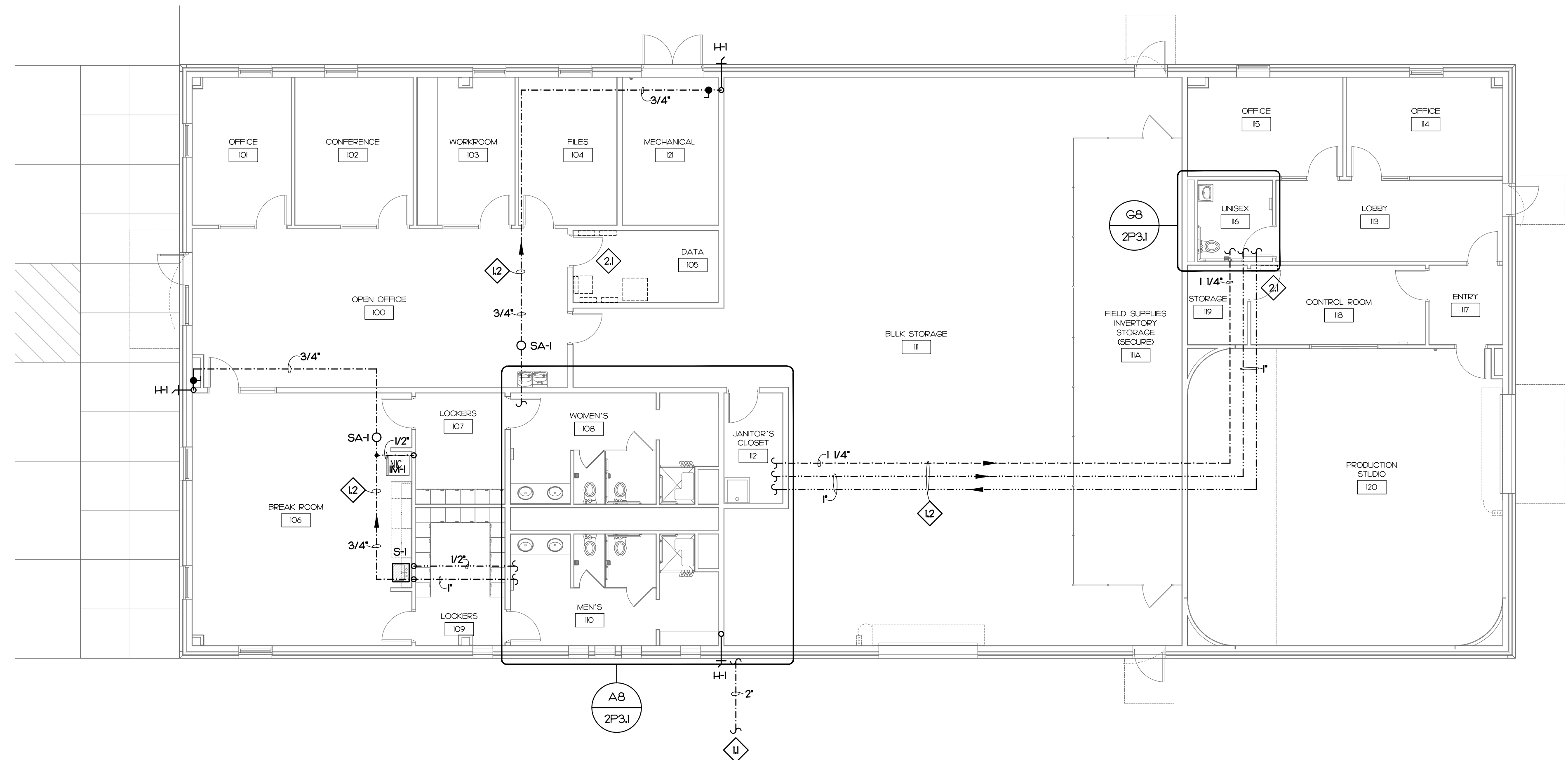
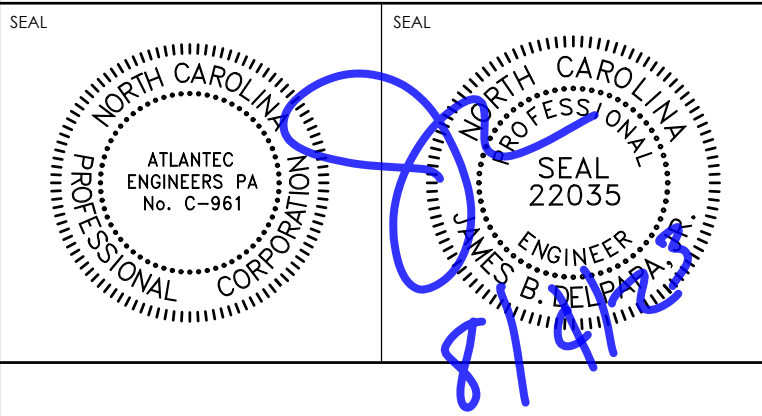
ARM OVER DETAIL
 SCALE: NOT TO SCALE **A15**



PLUMBING KEY NOTES

- ① 2" COLD WATER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR WATER METER, BACKFLOW AND CONTINUATION.
- ② WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- ③ ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.

ATLANTEC
ENGINEERS, PA 2294
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-1111
1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-9336



KEY PLAN

NO	REVISION	DATE

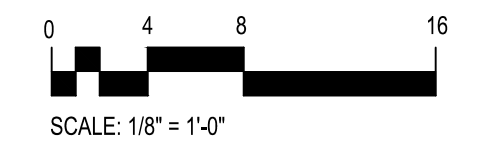
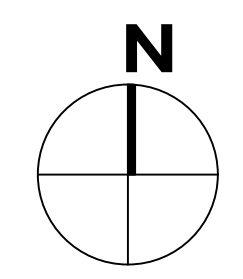
JKF
ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27638 252-355-1048
STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
WATER PIPING PLAN

SCALE	AS NOTED	DRAWING NO 2P1.1
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	

(A15)



WATER PIPING OPERATIONS BUILDING PLAN
SCALE: 1/8" = 1'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

M
L
K
J
H
G
F
E
D
C
B
A

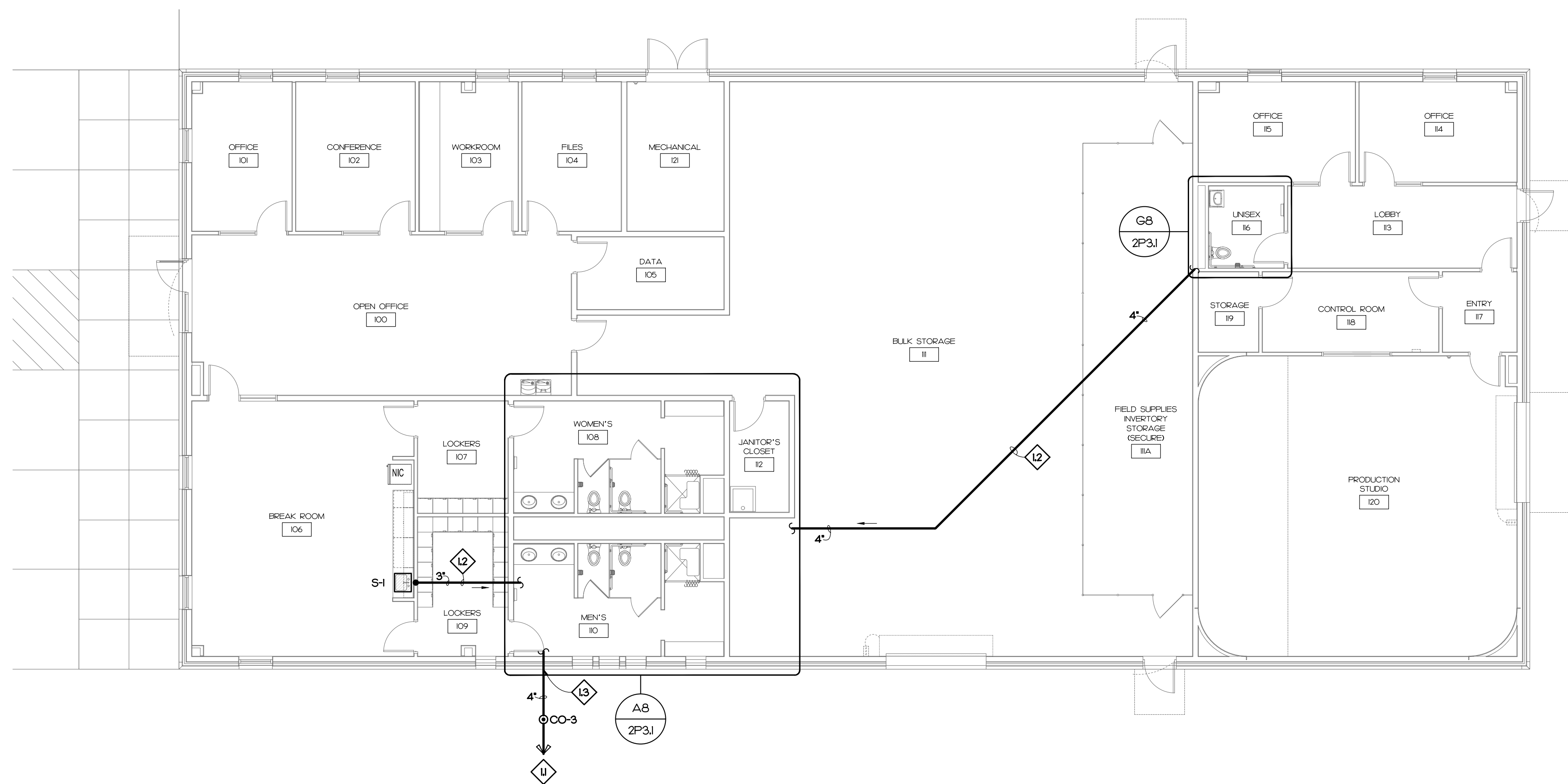
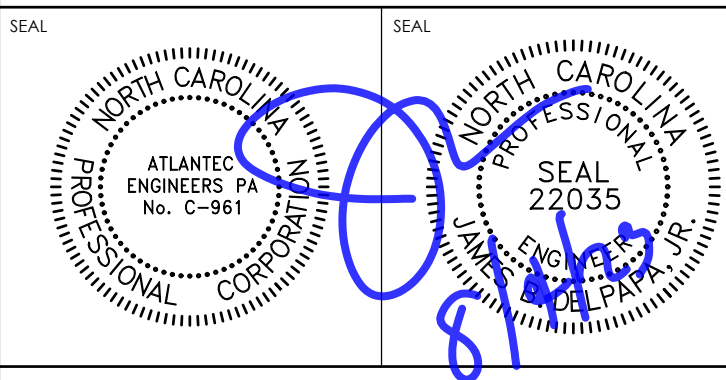
PLUMBING KEY NOTES

- U 4" SANITARY SEWER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- L2 SANITARY SEWER PIPING BELOW FINISHED FLOOR.
- L3 INVERT ELEVATION IS TO BE 2.48' BELOW FINISHED FLOOR.

ATLANTEC

ENGINEERS, PA 2294

3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-1111
1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-9336



KEY PLAN

NO	REVISION	DATE

J K F

ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27838 252-355-1048

STAR COMMUNICATIONS NEW
OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
WASTE PIPING PLAN

SCALE
AS NOTED

DRAWN
DRD

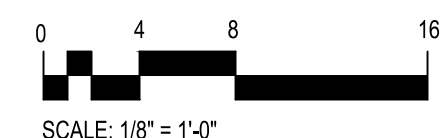
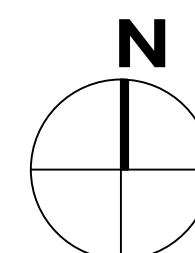
CHECKED
JBD

DATE
07-15-2023

PROJECT NO.
2022-17

2P2.1

(A15)



WASTE PIPING OPERATIONS BUILDING PLAN

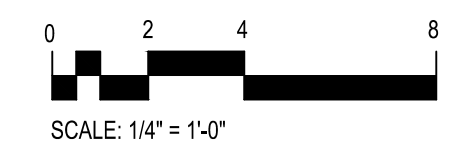
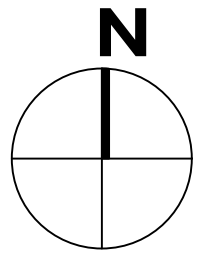
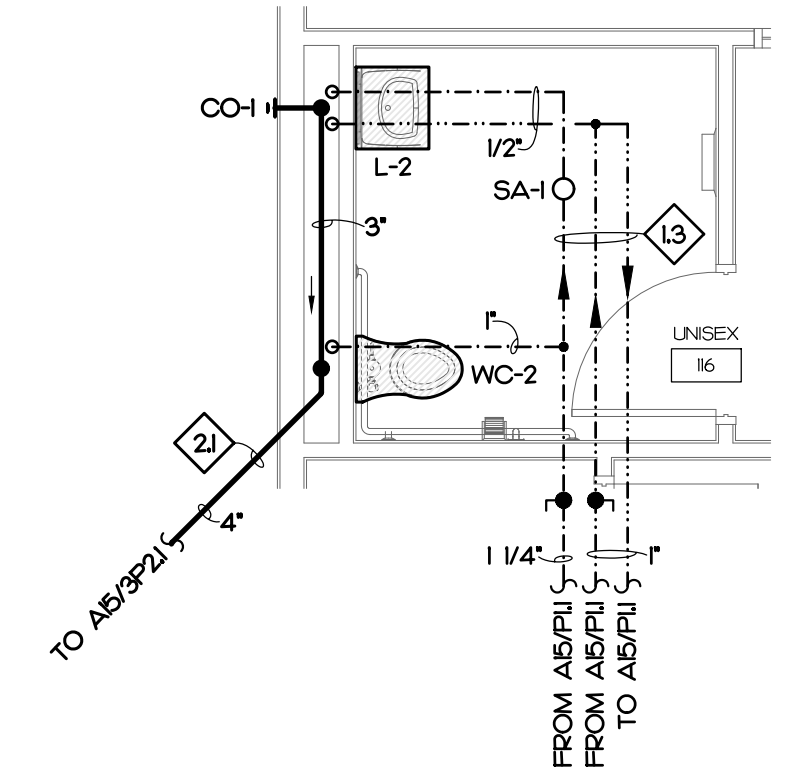
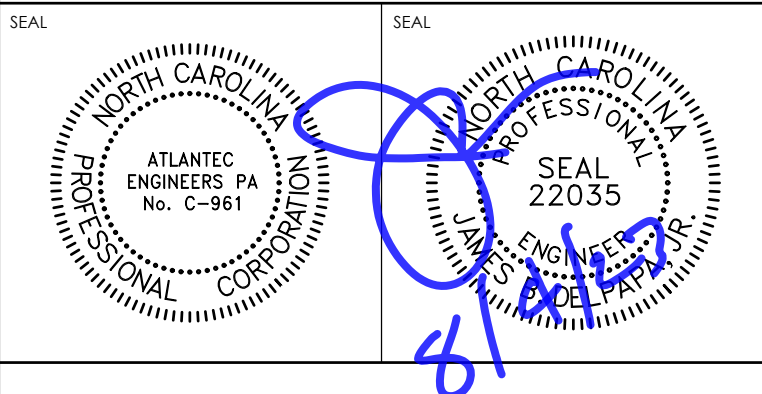
SCALE: 1/8" = 1'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

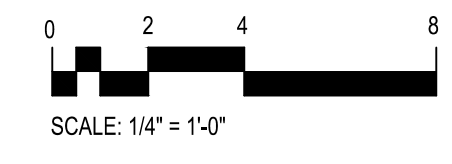
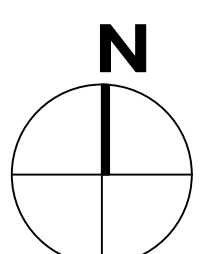
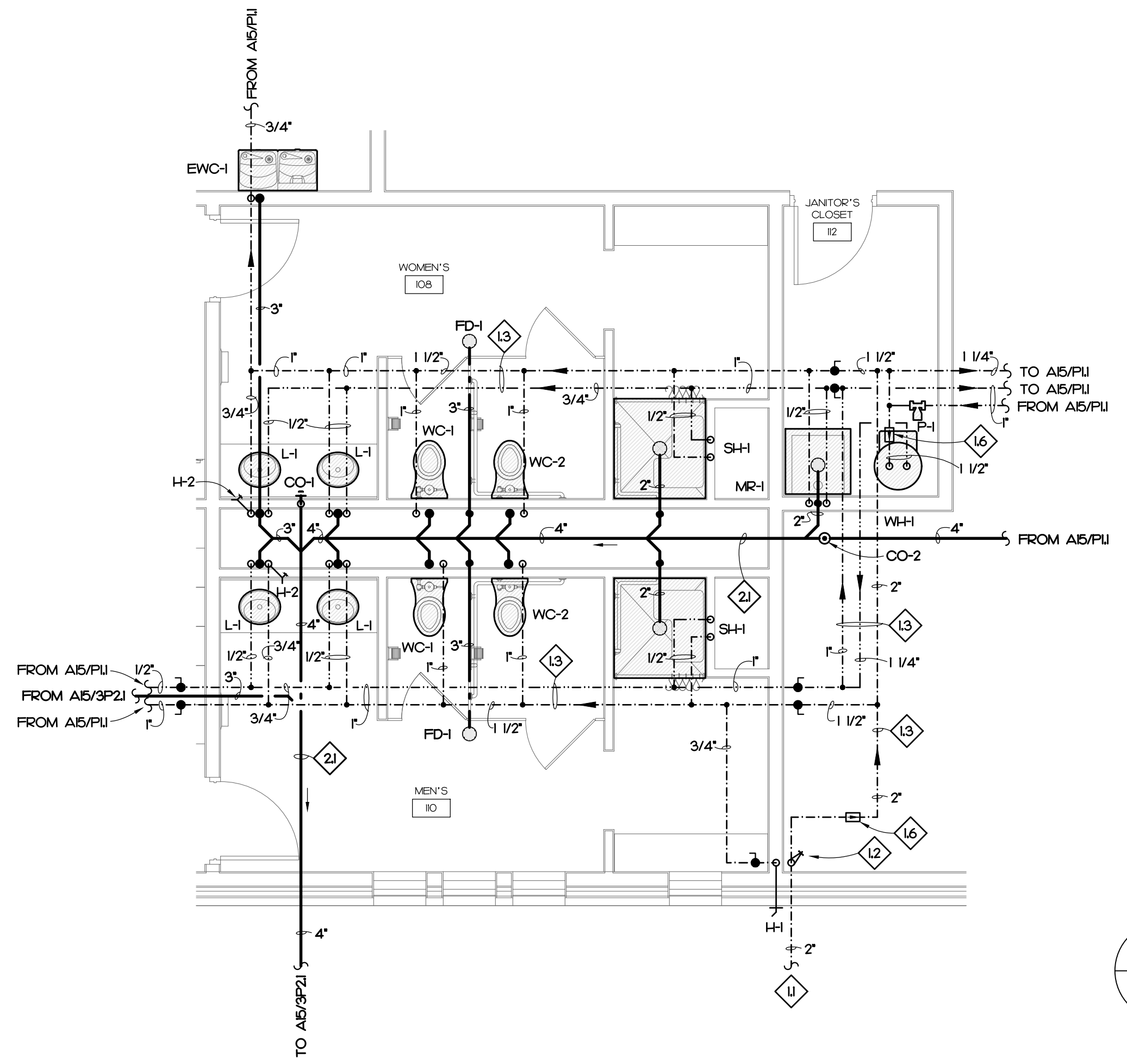
PLUMBING KEY NOTES

- 1 2" COLD WATER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 2 MAIN SHUT OFF VALVE.
- 3 WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- 4 WATER FLOW METER, ONICON MODEL NO. F-3500. SEE DETAIL E8/2P5.2.
- 5 SANITARY SEWER PIPE BELOW FINISHED FLOOR.

ATLANTEC ENGINEERS, PA
 2294
 3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-9336



ENLARGED PLUMBING PLAN (G8)
 SCALE: 1/4" = 1'-0"



ENLARGED PLUMBING PLAN (A8)
 SCALE: 1/4" = 1'-0"

KEY PLAN

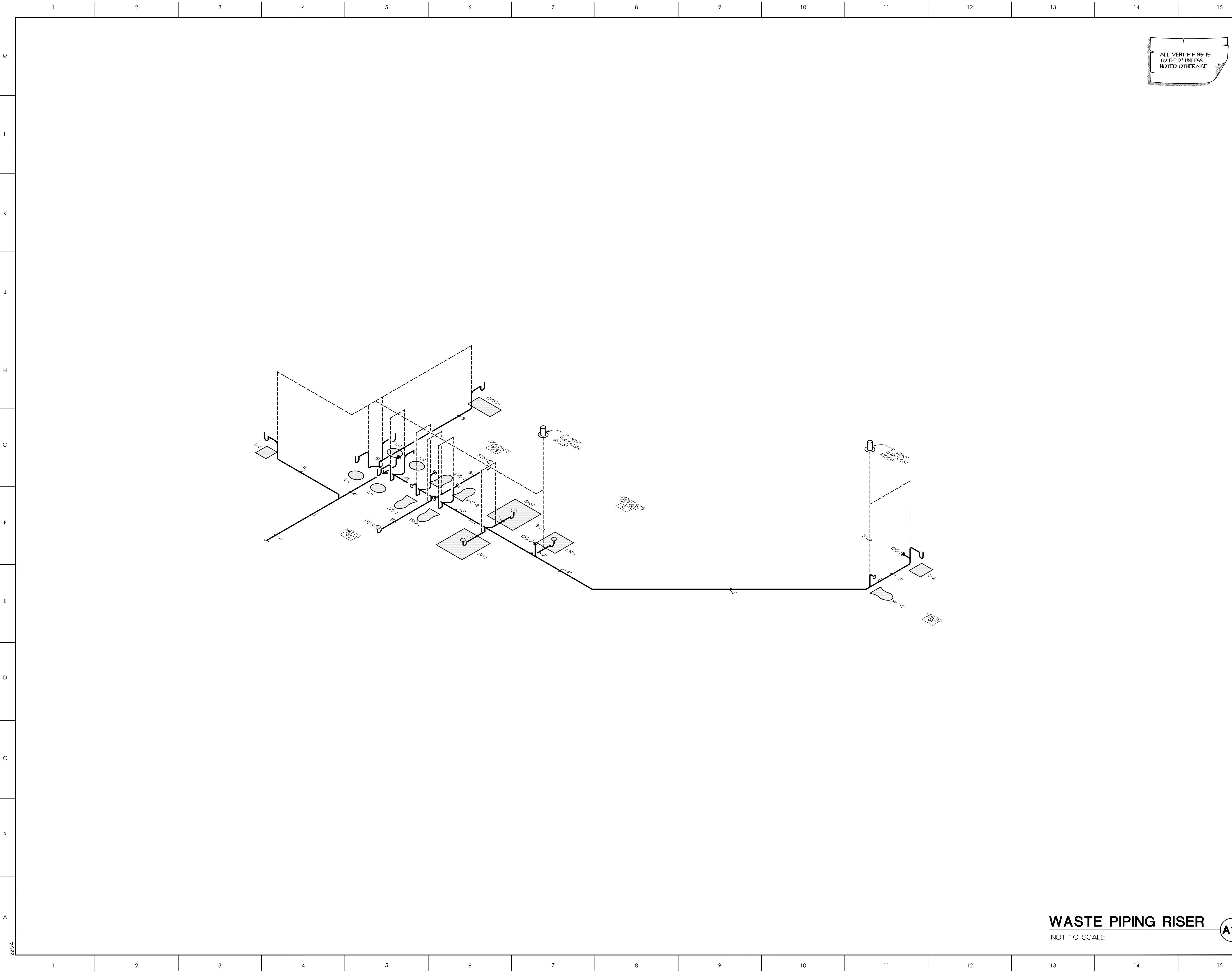
NO	REVISION	DATE

JKF
 ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27838 252-355-1048
STAR COMMUNICATIONS NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
ENLARGED PLUMBING PLANS

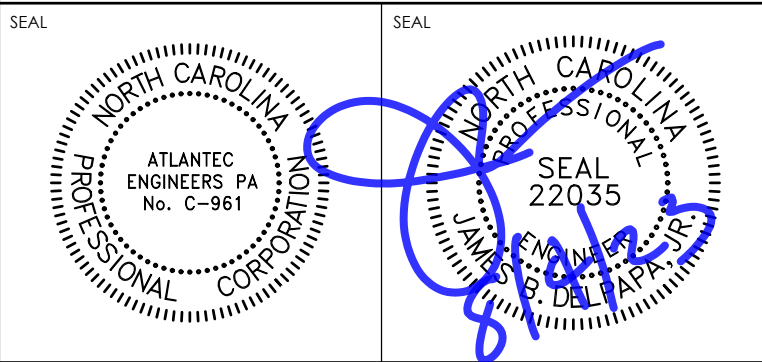
SCALE	AS NOTED	DRAWING NO 2P3.1
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	



ALL VENT PIPING IS TO BE 2" UNLESS NOTED OTHERWISE.

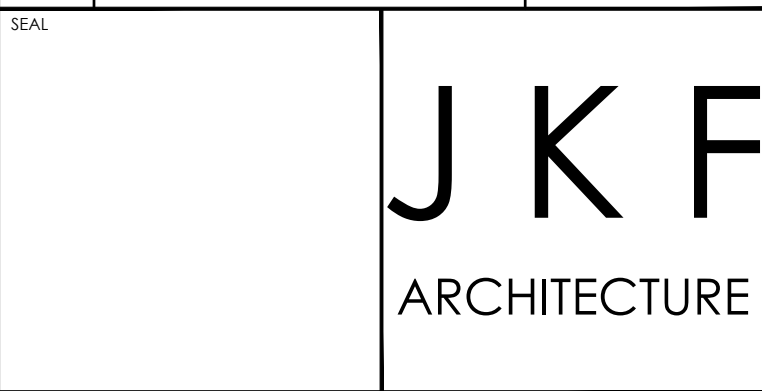
ATLANTEC ENGINEERS, PA

3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-1111
 505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-9336



KEY PLAN

NO	REVISION	DATE



625 LYNDALE CT, SUITE F, GREENVILLE, NC 27838 252-355-1048

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
 WASTE PIPING RISER

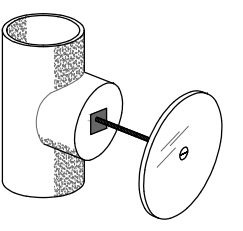
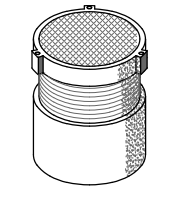
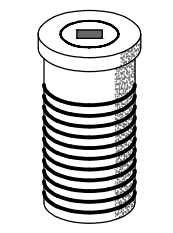
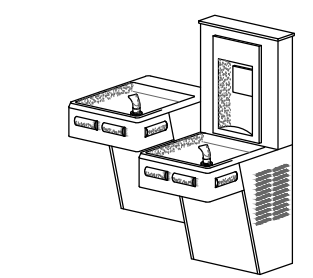
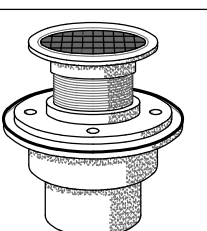
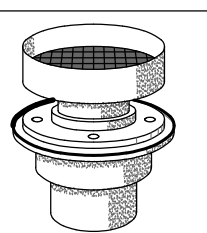
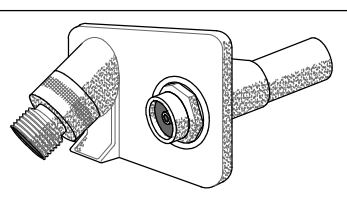
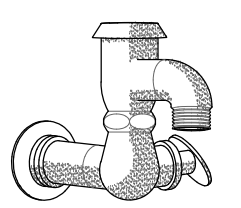
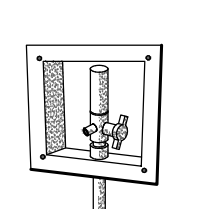
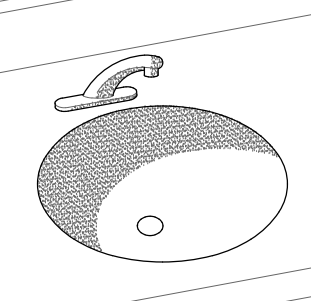
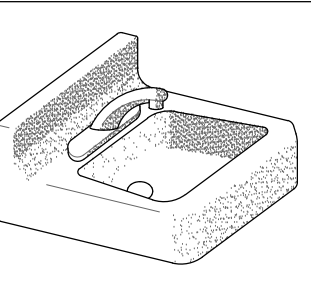
SCALE	AS NOTED	DRAWING NO 2P4.1
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	

WASTE PIPING RISER

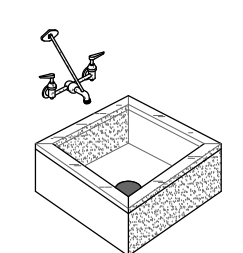
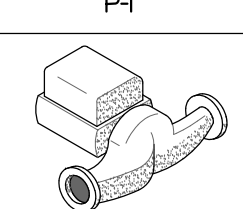
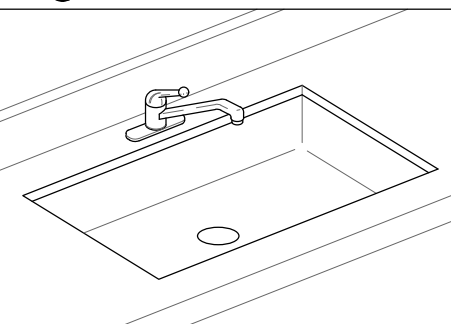
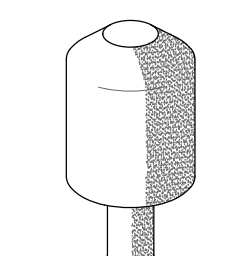
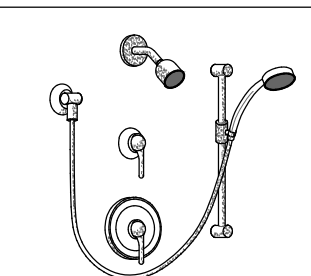
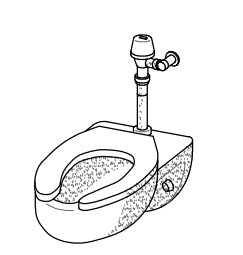
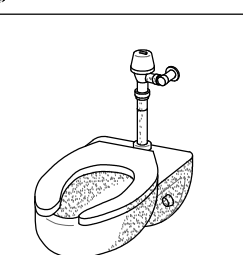
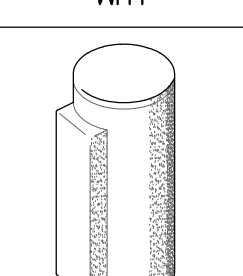
NOT TO SCALE

A15




PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS				PIPING CONNECTIONS					
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER	
	WALL CLEANOUT	ZURN	CO-243-PVC	MFAB		JR SMITH		-	-	SEE PLUMBING DRAWINGS	
	ACCESS COVER	ZURN	CO-2530-SS	MFAB		JR SMITH					
	PVC CLEANOUT BODY AND PLUG TO BE GAS AND WATER TIGHT. PLUG TO HAVE A BRASS THREADED INSERT TO RECEIVE SECURING SCREW FOR STAINLESS STEEL ROUND ACCESS COVER.										
	FLOOR CLEANOUT	ZURN	CO2449	MFAB		JR SMITH		-	-	SEE PLUMBING DRAWINGS	
	PVC CLEANOUT WITH AND ADJUSTABLE PVC RISER, NICKEL BRONZE FRAME AND COVER, AND AN ABS TAPER THREADED PLUG. CLEANOUT TO BE GAS AND WATERTIGHT.										
	EXTERIOR CLEANOUT	ZURN	Z-4449-EP	WATTS		CO-380-34B	JR SMITH	4283	-	SEE PLUMBING DRAWINGS	
	CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT BRONZE PLUG, MOUNT IN CONCRETE.										
	WATER COOLER	OASIS	P858FSL	ELKAY		LZSTL8WS	HALSEY TAYLOR	HTH4HACDPLV-WF	1/2"	-	2"
	PROVIDE WITH FRONT AND SIDE CONTROLS, SHUT-OFF VALVE, CARRIER, AND TRAP. PROVIDE STAINLESS STEEL FINISH. PROVIDE WITH BOTTLE FILLER.										
	FLOOR DRAIN	ZURN	ZN45H	WATTS		FD-100-FC	MFAB	F1000-C	1/2"	-	3"
	FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE ROUND HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.										
	FLOOR DRAIN	ZURN	ZN45I	WATTS		FD-100-ER	MFAB	F100-CC-DD	1/2"	-	3"
	FLOOR DRAIN TO HAVE A CAST IRON BODY WITH 3" BOTTOM OUTLET, ADJUSTABLE COLLAR, POLISHED 7" DIAMETER NICKEL BRONZE STRAINER, AND 1/2" TRAP PRIMER CONNECTION.										
	ANTIFREEZE HOSE BIBB	WOODFORD	65	WATTS		HY-420	MFAB	MHY-5	3/4"	-	-
	ANTIFREEZE HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED GRADE.										
	HOSE BIBB	CHICAGO	952	WOODFORD	2i	ZURN	Z875L7		3/4"	-	-
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED FLOOR.										
	ICE MAKER BOX	OATEY CO.	38570	GLYD GRAY		AB9700 HA	SILOX CHIEF	696-G-100MF	1/2"	-	-
	PLASTIC ICE MAKER BOX WITH 1/4 TURN BRASS BALL VALVE WITH HAMMER ARRESTOR - COPPER SWEAT AND SUPPLY TUBE TO REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.										
	LAVATORY	KOHLER	K-220-0	AMERICAN STANDARD	9482000	TOTO	LT569				
	FAUCET	SLOAN	ETF-600	AMERICAN STANDARD	6056202	MOEN	CA8302				
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-I	KOHLER	K-8999				2"
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R192AC	KOHLER	K-7605-P-CP		1/2"	1/2"	
	UNDERCOUNTER LAVATORY SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW, AND INCLUDE SEALANT. DECK MOUNTED HARDWIRED SENSOR. FAUCET SHALL BE CHROME FINISH, 0.5 GPM, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR (0.25 GPM). RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW, CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET STRAINER AND TRUEBRO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.										
	LAVATORY	KOHLER	K-286I-0	AMERICAN STANDARD	0355,012	ZURN	Z5834				
	FAUCET	SLOAN	ETF-600	MOEN	8470						
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-I	KOHLER	K-8999				2"
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R192AC	KOHLER	K-7605-P-CP		1/2"	1/2"	
	WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH, 0.5 GPM, HAVE 4" CENTERS AND AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED, HARDWIRED SENSOR FAUCET SHALL BE CHROME FINISH, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR (0.25 GPM). RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TRUEBRO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.										

PLUMBING FIXTURE SCHEDULE

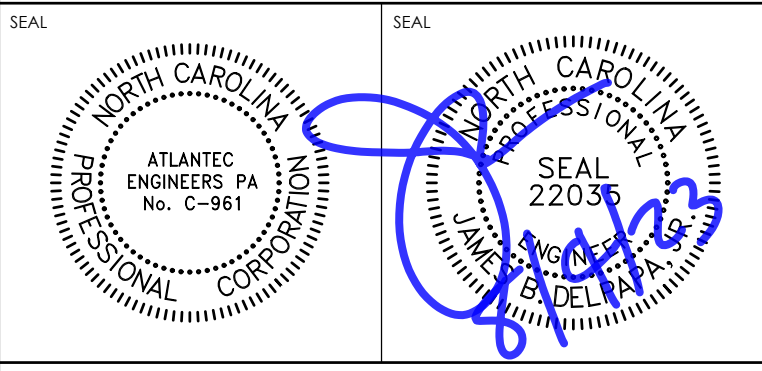
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS				PIPING CONNECTIONS				
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
	MOP RECEPTOR	STERN WILLIAMS	SB-900	FIAT		TSB100				3"
	FAUCET	STERN WILLIAMS	T-10-VB	CHICAGO		897PCF	MOEN	8124	1/2"	1/2"
	HOSE	STERN WILLIAMS	T-35	FIAT		832AA				
	MOP BRACKET	STERN WILLIAMS	T-40	FIAT		889CC				
	MOP RECEPTOR SHALL BE 24" x 24" x 12" DEEP WITH ONE PIECE STAINLESS STEEL CAP, NO FLANGES.									
	RECIRCULATING PUMP	B & G	PL36							
	RECIRCULATING PUMP SHALL BE 1/6 HORSEPOWER, 120 VOLT, SINGLE PHASE. PROVIDE PUMP WITH MOUNTING BRACKET, TIMER, AQUASTAT AND DISCONNECT, DISCONNECT WIRING BY LICENSED ELECTRICAL CONTRACTOR.									
	KITCHEN SINK	KOHLER	K-25939	JUST		ELKAY				
	FAUCET	DELTA	400	MOEN	7437	KOHLER			1/2"	1/2"
	TRAP	McGUIRE	8902	KOHLER	K8999	DEARBORN BRASS	702-I			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN	L7			
	SINK IS TO BE 18 GAUGE STAINLESS STEEL, UNDERMOUNT. DECK MOUNTED FAUCET SHALL BE CHROME FINISHED, 180 GPM WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH PROVIDE WITH McGUIRE PROMRAP INSULATOR. PROVIDE WITH SPRAYER, DISHWASHER CONNECTION, AND DISPOSAL IF REQUIRED BY ARCHITECT.									
	SHOCK ABSORBER	JOSAM	75000	ZURN	Z1700	WADE	4480			
	SHOCK ABSORBERS SHALL HAVE A STAINLESS STEEL CASING, FLEXIBLE MECHANICAL BELLOWS, PRESSURIZED INERT GAS CHAMBER AND CERTIFICATION STAMP AS CONFORMING TO STANDARD PD1 WH-201 OF THE PLUMBING AND DRAINAGE INSTITUTE.									
	SHOWER	CLARON BATHWARE	MP3837L/REF34	AMERICAN STANDARD		AQUA BATH				2"
	VALVE AND HEAD	SYMMONS	96-500-B30-L-V	DELTA		T8-432/R10700UNWS	MOEN	8342	1/2"	1/2"
	PROVIDE WITH DRAIN VALVE TO BE ANTI-SCALD PER NORTH CAROLINA BUILDING CODE. FLOW RATE 25 GPM. PROVIDE WITH SEAT, GRAB BARS, AND CURTAIN OR DOOR AS REQUIRED PER ADA REQUIREMENTS.									
	WATER CLOSET	KOHLER	K-4325	SLOAN	ST-2429	AMERICAN STANDARD				4"
	SEAT	BBMS	1655SSC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	ECOS IH-16/U	DELANY		ZURN			1"	-
	WALL MOUNTED ELONGATED TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED HARDWIRED SENSOR CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE. FLUSH VOLUME: 1.6/11 GPF.									
	WATER CLOSET	KOHLER	K-4325	SLOAN	ST-2429	AMERICAN STANDARD				4"
	SEAT	BBMS	1655SSC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	ECOS IH-16/U	DELANY		ZURN			1"	-
	WALL MOUNTED ELONGATED TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED HARDWIRED SENSOR CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE. FLUSH VOLUME: 1.6/11 GPF. MOUNTING HEIGHT TO BE ADA COMPLIANT.									
	WATER HEATER	STATE INDUSTRIES	CSB-52-S-FE	A.O. SMITH		LOCHINVAR			1 1/4"	1 1/4"
	ELECTRIC WATER HEATER SHALL HAVE A 50 GALLON STORAGE CAPACITY, AN ELECTRIC INPUT OF 15 KW AT 480 VOLT, THREE PHASE AND A RECOVERY OF 61 GPH AT A 100° RISE. PROVIDE WITH EXPANSION TANK AND HEAVY DUTY FUSIBLE DISCONNECT. WIRING BY LICENSED ELECTRICAL CONTRACTOR. WATER HEATER TO BE PROVIDED WITH HEAT TRAPS AND MEET THE ENERGY EFFICIENCY REQUIREMENT PER 2018 NORTH CAROLINA STATE BUILDING CODE/ ENERGY CONSERVATION CODE.									

PLUMBING SCHEDULE NOTES AND LEGEND:

- THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
 - SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
 - PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
 - REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.
-  ADA COMPLIANT
 ELECTRICAL POWER
 GAS FIRED

ATLANTEC ENGINEERS, PA

3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-1111
1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-9336



KEY PLAN

NO	REVISION	DATE

JKF

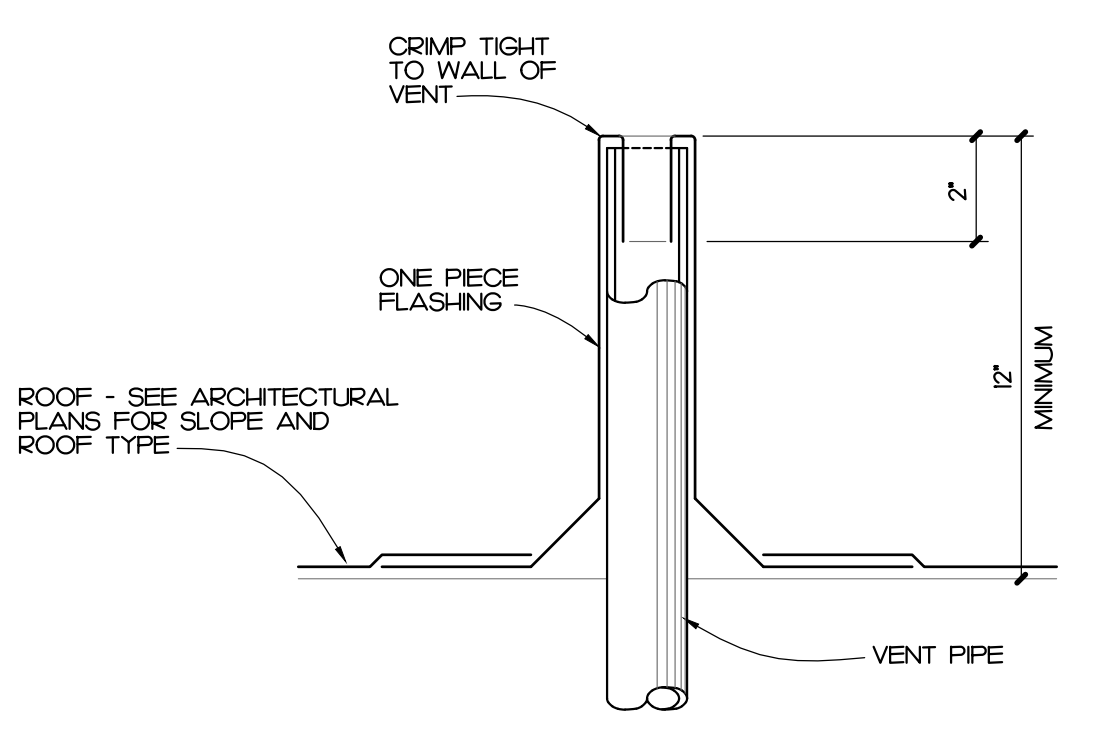
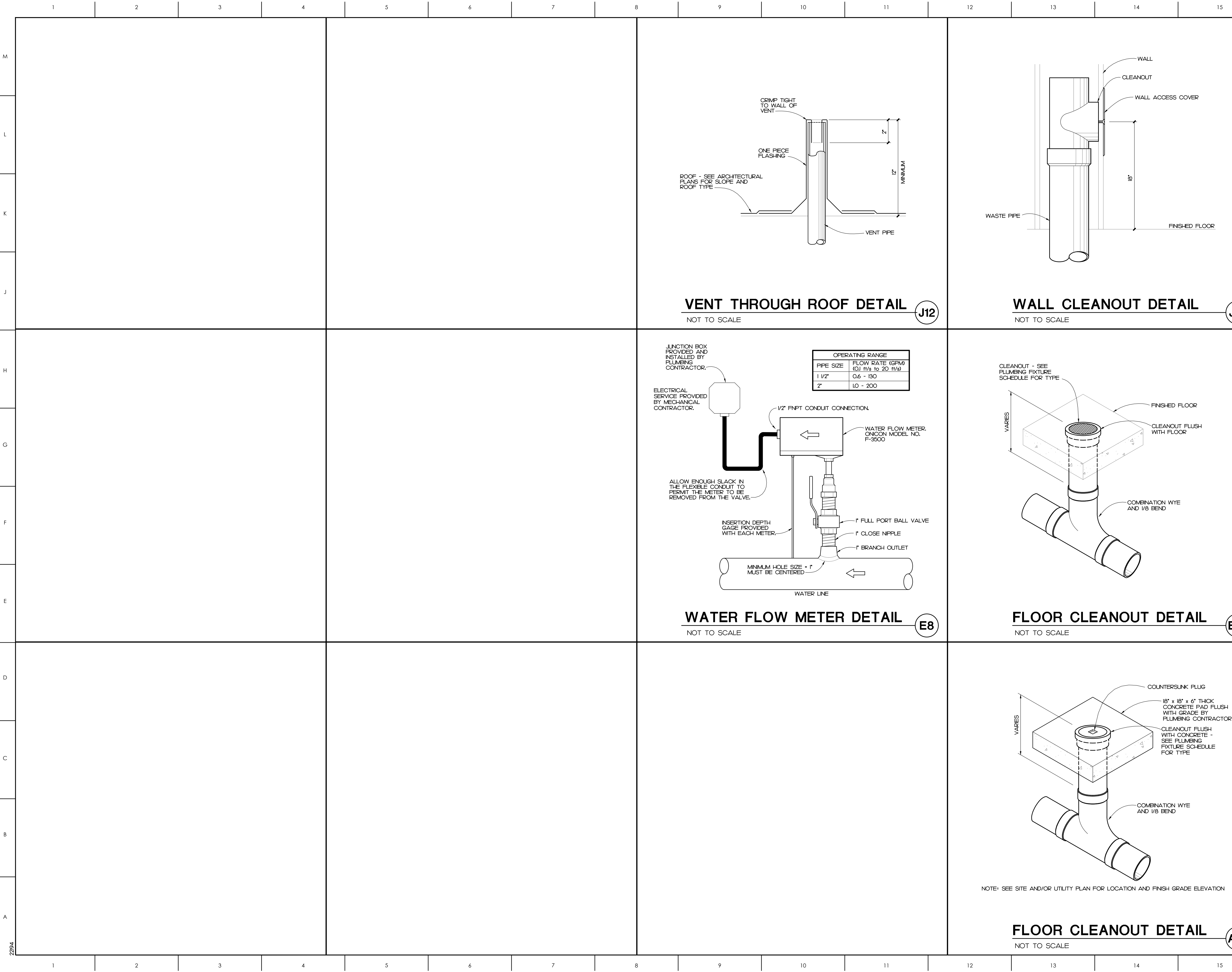
ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27638 252-355-1048

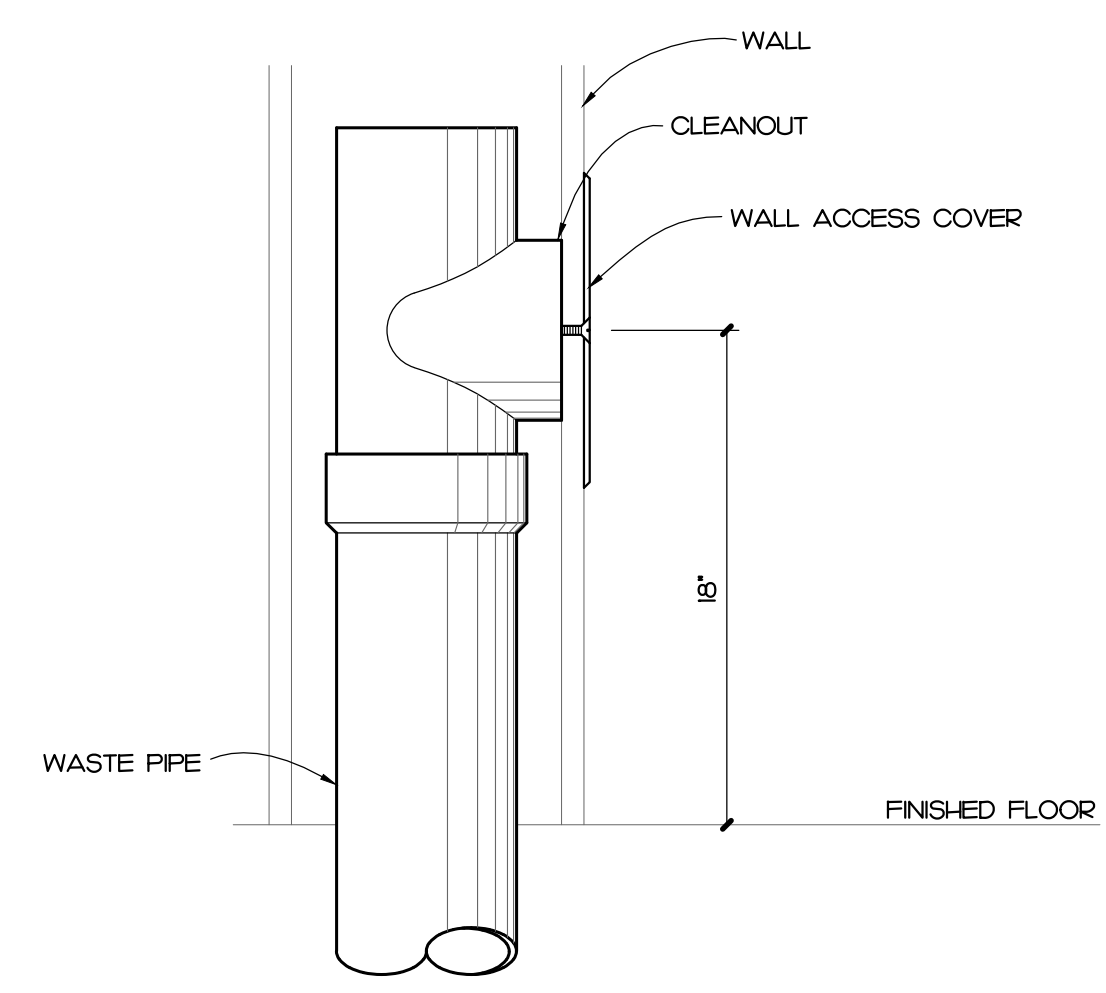
STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
PLUMBING FIXTURE SCHEDULE

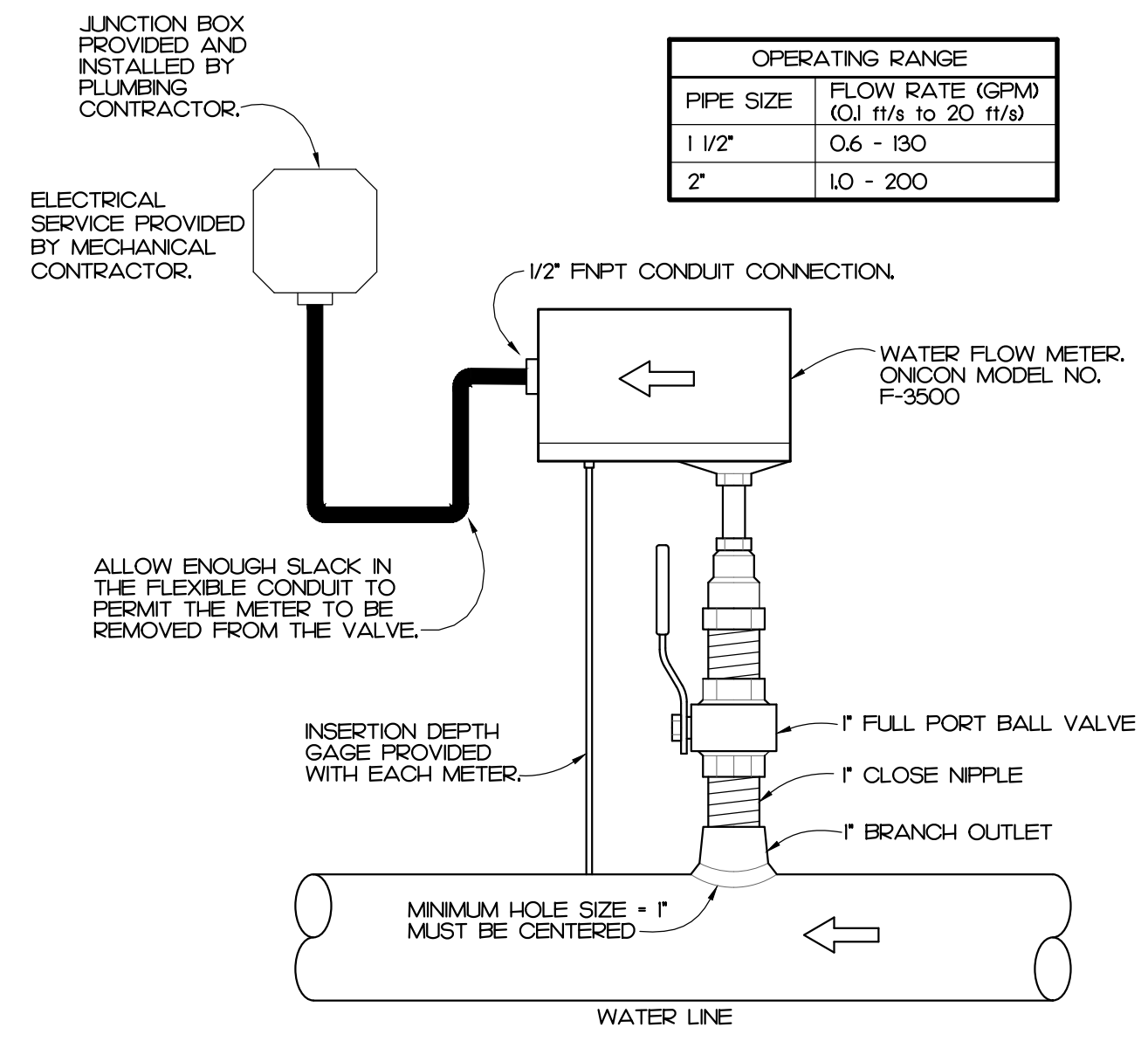
SCALE	DRAWING NO.
AS NOTED	2P5.1
DRAWN DRD	
CHECKED JBD	
DATE 07-15-2023	
PROJECT NO. 2022-17	



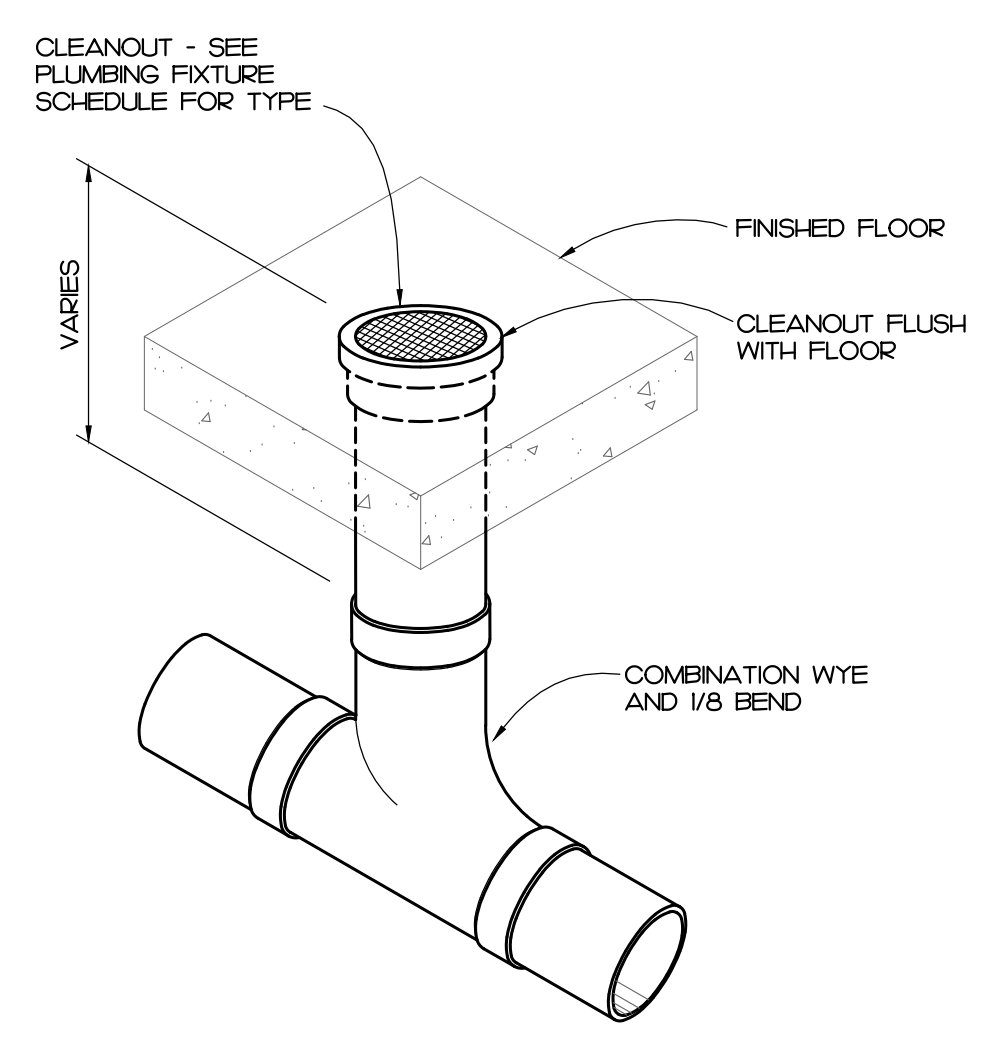
VENT THROUGH ROOF DETAIL (J12)
NOT TO SCALE



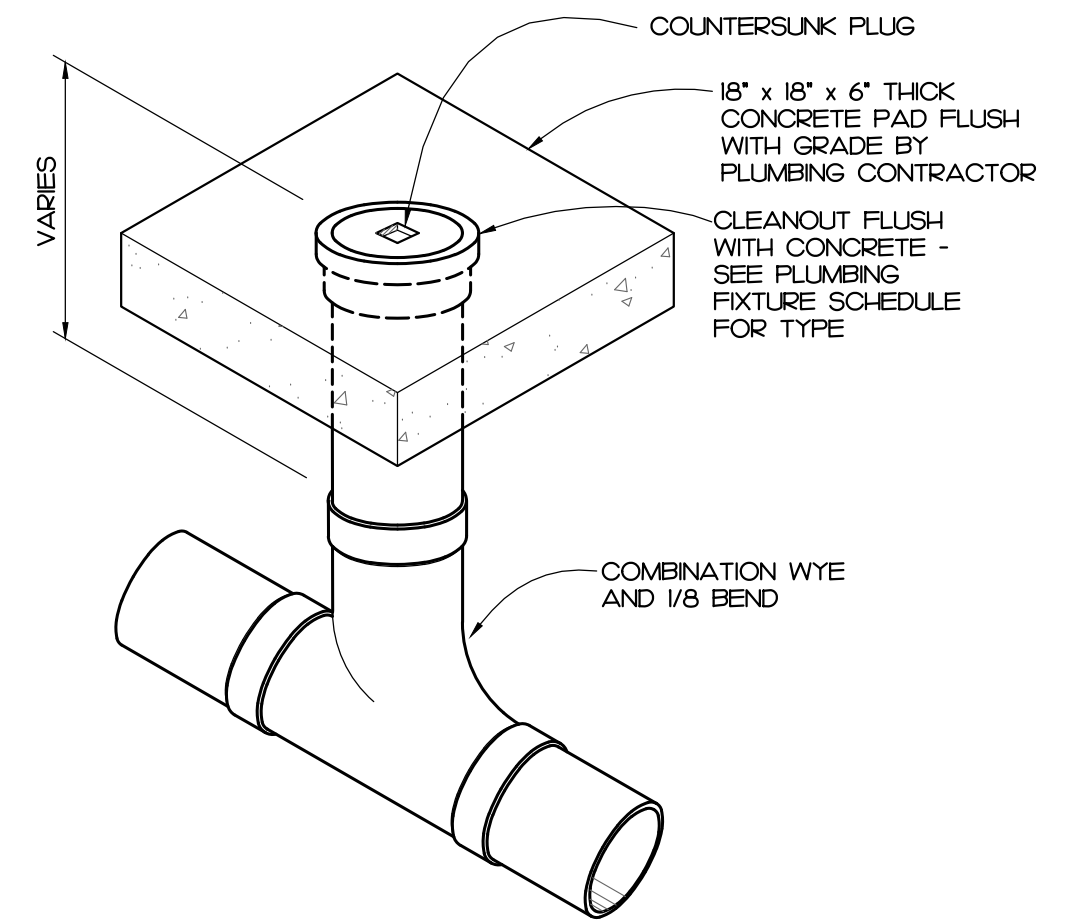
WALL CLEANOUT DETAIL (J15)
NOT TO SCALE



WATER FLOW METER DETAIL (E8)
NOT TO SCALE



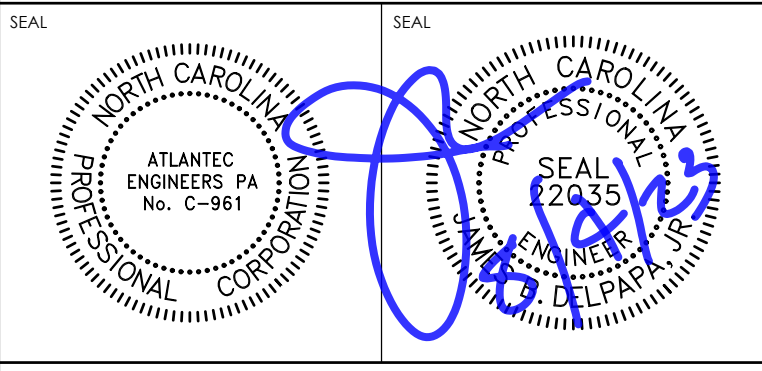
FLOOR CLEANOUT DETAIL (E15)
NOT TO SCALE



NOTE: SEE SITE AND/OR UTILITY PLAN FOR LOCATION AND FINISH GRADE ELEVATION

FLOOR CLEANOUT DETAIL (A15)
NOT TO SCALE

ATLANTEC ENGINEERS, PA
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-1111
1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-9336



KEY PLAN

NO	REVISION	DATE

JKF
ARCHITECTURE

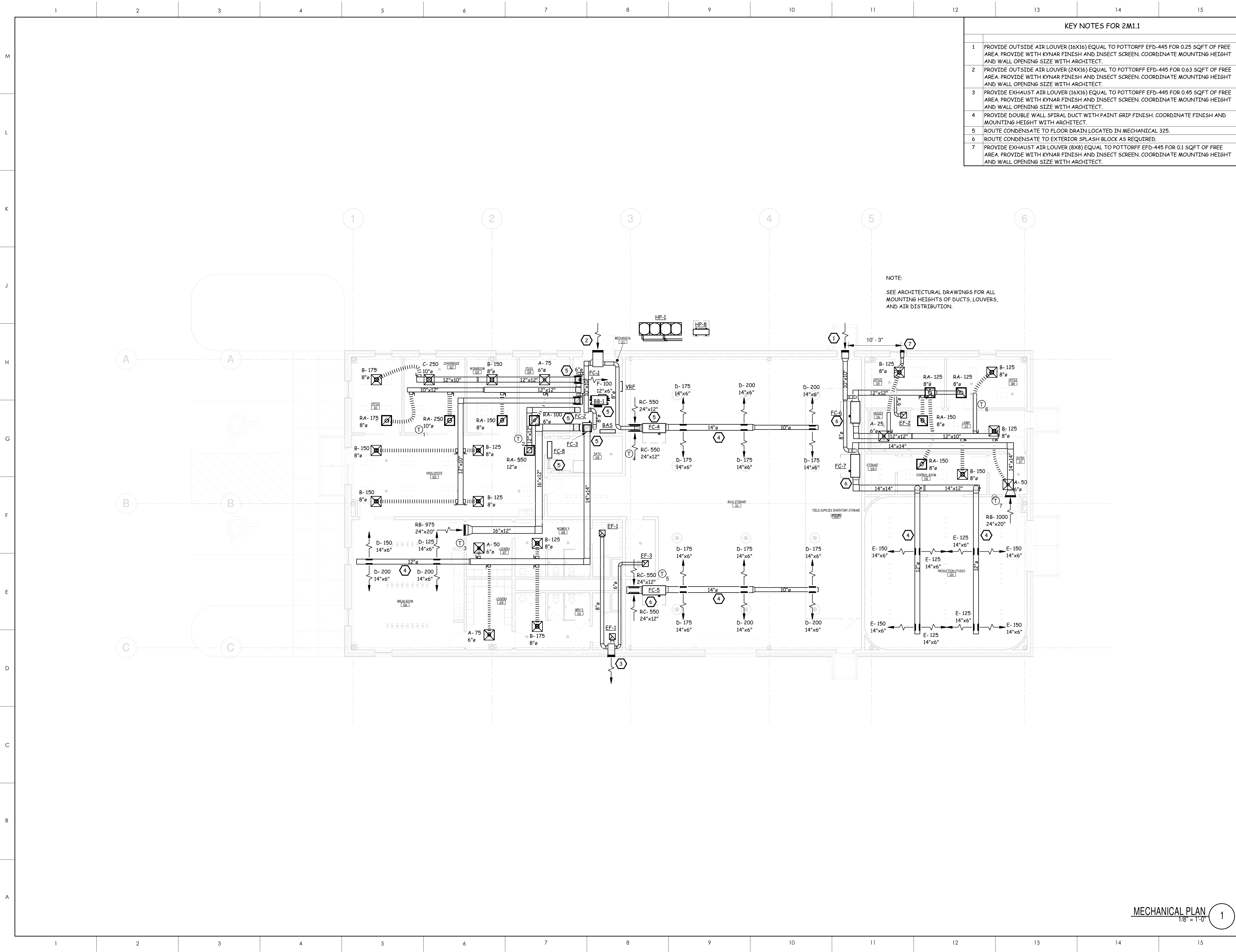
625 LYNNDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1048

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
PLUMBING FIXTURE SCHEDULE AND DETAILS

SCALE	AS NOTED
DRAWN	DRD
CHECKED	JBD
DATE	07-15-2023
PROJECT NO.	2022-17

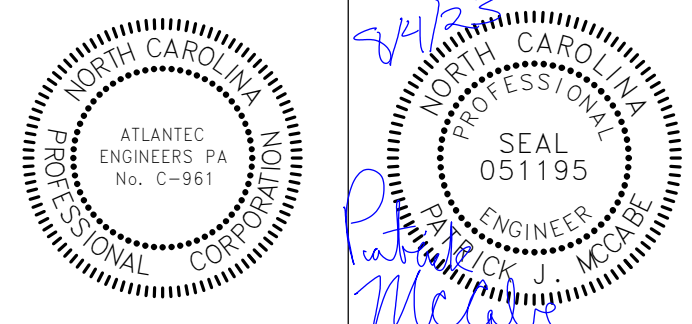
DRAWING NO
2P5.2



KEY NOTES FOR 2M1.1	
1	PROVIDE OUTSIDE AIR LOUVER (16X16) EQUAL TO POTTORFF EFD-445 FOR 0.25 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND WALL OPENING SIZE WITH ARCHITECT.
2	PROVIDE OUTSIDE AIR LOUVER (24X16) EQUAL TO POTTORFF EFD-445 FOR 0.63 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND WALL OPENING SIZE WITH ARCHITECT.
3	PROVIDE EXHAUST AIR LOUVER (16X16) EQUAL TO POTTORFF EFD-445 FOR 0.45 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND MOUNTING HEIGHT WITH ARCHITECT.
4	PROVIDE DOUBLE WALL SPIRAL DUCT WITH PAINT GRIP FINISH. COORDINATE FINISH AND MOUNTING HEIGHT WITH ARCHITECT.
5	ROUTE CONDENSATE TO FLOOR DRAIN LOCATED IN MECHANICAL 325.
6	ROUTE CONDENSATE TO EXTERIOR SPLASH BLOCK AS REQUIRED.
7	PROVIDE EXHAUST AIR LOUVER (8X8) EQUAL TO POTTORFF EFD-445 FOR 0.1 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND WALL OPENING SIZE WITH ARCHITECT.

NOTE:
SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS OF DUCTS, LOUVERS, AND AIR DISTRIBUTION.

ATLANTEC
ENGINEERS, PA 22194
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-1111
1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-3336



GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

JKF
ARCHITECTURE

25 LYNNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1068

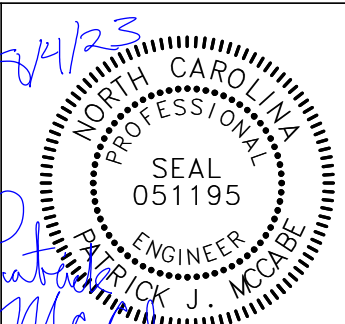
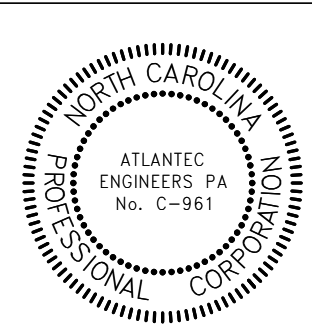
STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
MECHANICAL PLAN

SCALE	1/8" = 1'-0"
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

2M1.1

MECHANICAL PLAN
1/8" = 1'-0" 1



John K. Farkas
McClure

HEAT PUMP SCHEDULE												
MARK	MANUFACTURER	MODEL	TOTAL COOLING CAPACITY	SENSIBLE COOLING CAPACITY	HEATING CAPACITY	POWER	PHASE	MCA	MOCP	COOLING EFFICIENCY	HEATING EFFICIENCY	NOTES
HP-1	DAIKIN	FXS25YV1000	192.0 MBH	144.0 MBH	215.0 MBH	460 V	3	30.0 A	40 A	11.9 EER	3.6 COP	1-4
HP-8	MITSUBISHI	PUZ-A24NH47	24.0 MBH	18.0 MBH	24.0 MBH	208 V	1	19.0 A	25 A	21.4 SEER	11.0 HSPF	1-3

- NOTES:
- PROVIDE WITH HEAVY DUTY FUSIBLE DISCONNECT.
 - PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.
 - CONTROL VIA BAS.
 - SEE 2M4.1 FOR REFRIGERANT PIPING INFORMATION.

FAN COIL SCHEDULE											
MARK	MANUFACTURER	MODEL	CFM	S.P.	POWER	PHASE	MCA	MOCP	NOTES		
FC-1	MITSUBISHI	PVFX-P24NAMU-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5		
FC-2	MITSUBISHI	PVFX-P18NAMU-E1	600	0.8"	208 V	1	3.0 A	15 A	1-5		
FC-3	MITSUBISHI	PVFX-P36NAMU-E1	1100	0.8"	208 V	1	4.1 A	15 A	1-5		
FC-4	MITSUBISHI	PVFX-P36NAMU-E1	1100	0.8"	208 V	1	4.1 A	15 A	1-5		
FC-5	MITSUBISHI	PVFX-P36NAMU-E1	1100	0.8"	208 V	1	4.1 A	15 A	1-5		
FC-6	MITSUBISHI	PVFX-P18NAMU-E1	600	0.8"	208 V	1	3.0 A	15 A	1-5		
FC-7	MITSUBISHI	PVFX-P36NAMU-E1	1100	0.8"	208 V	1	4.1 A	15 A	1-5		
FC-8	MITSUBISHI	PKA-A24KA7	650	-	208 V	1	0 A	1-6			

- NOTES:
- PROVIDE WITH MOTOR RATED DISCONNECT SWITCH.
 - SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS.
 - PROVIDE WITH 2" DISPOSABLE MERV 13 FILTERS.
 - PROVIDE WITH WALL MOUNTED TEMPERATURE SENSOR TO CONTROL VIA BAS.
 - SEE PLAN FOR CONDENSATE DISCHARGE LOCATION.
 - PROVIDE WITH CONDENSATE PUMP.

BRANCH BOX SCHEDULE							
MARK	MANUFACTURER	MODEL	POWER	PHASE	MCA	MOCP	NOTES
BB-1	MITSUBISHI	CMB-P108NU-JA1	208 V	1	0.8 A	20 A	1-5

- NOTES:
- PROVIDE WITH DISCONNECT SWITCH.
 - PROVIDE WITH CONDENSATE DRAIN FOR MULTIPORT BOX WITH CONDENSATE PUMP. SEE PLAN FOR DISCHARGE LOCATION.
 - SEE PIPING SCHEMATIC FOR ADDITIONAL PIPING DETAILS.
 - UNUSED PORTS SHALL BE CAPPED FOR FUTURE USE.

VRF NOTE:
INSTALL PIPING IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. CONTRACTOR MUST BE FACTORY TRAINED TO INSTALL EQUIPMENT. CONTRACTOR SHALL INCLUDE FACTORY START-UP AND FIELD SUPERVISION OF INSTALL BY QUALIFIED FACTORY TECHNICIAN. SEE SHEET 2M4.1 FOR PIPING AND ELECTRICAL WIRING.
CONTRACTOR IS RESPONSIBLE FOR ALTERNATE SYSTEM DESIGN OF PIPING AND ELECTRICAL CONNECTIONS IF DIFFERENT FROM THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE PROOF OF SUCCESSFUL INSTALLATION AND TRAINING WITH SUBMITTALS.

EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER	MODEL	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	PHASE	NOTES
EF-1	COOK	GC-160	TOILETS	CABINET FAN	175	1500	105 Watts	0.25"	277 V	1	1-3
EF-1	COOK	GC-160	TOILETS	CABINET FAN	175	1500	105 Watts	0.25"	277 V	1	1-3
EF-2	COOK	GC-140	TOILET	CABINET FAN	105	1500	67 Watts	0.25"	277 V	1	1-3
EF-3	COOK	GC-140	TOILET	CABINET FAN	105	1500	67 Watts	0.25"	277 V	1	1-3

- NOTES:
- PROVIDE WITH DISCONNECT SWITCH.
 - PROVIDE WITH BACKDRAFT DAMPER.
 - CONTROL VIA LIGHT SWITCH BY E.C.

GRILLE & DIFFUSER SCHEDULE											
MARK	MANUFACTURER	MODEL	SERVICE	TYPE	MAX FLOW	FACE SIZE	NECK SIZE	NOTES			
A	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	100 CFM	24x24	6"ø	1-3			
B	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	200 CFM	24x24	8"ø	1-3			
C	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	300 CFM	24x24	10"ø	1-3			
D	PRICE	SD6E	SUPPLY	DUCT MOUNTED	200 CFM	14x6	-	1,5,6			
E	PRICE	SD6E	SUPPLY	DUCT MOUNTED	200 CFM	14x6	-	1,6			
F	PRICE	510	SUPPLY	DUCT MOUNTED	315000 CFM	14x8	12x6	1-3			
RA	PRICE	530	RETURN	LOUVERED LAY-IN	1000 CFM	24x24	SEE DWG	1-3			
RB	PRICE	530	RETURN	SURFACE MOUNT	1000 CFM	26x22	24x20	1-4			
RC	PRICE	530	RETURN	DUCT MOUNTED	550 CFM	26x14	24x12	1-3,6			

- NOTES:
- COORDINATE FINISH WITH ARCHITECT.
 - GRILLE TO HAVE FULLY LOUVERED FACE.
 - PROVIDE WITH INSULATED SHEET METAL PLENUM.
 - PROVIDE WITH FRAME FOR SURFACE MOUNTING.
 - PROVIDE WITH OPPOSED BLADE DAMPER.
 - PROVIDE WITH FRAME FOR DUCT MOUNTING.

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

J K F
ARCHITECTURE

425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1068
STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

MECHANICAL SCHEDULES

SCALE: 12" = 1'-0"
DRAWN: PJM
CHECKED: PJM
DATE: 07-15-2023
PROJECT NO.: 2022-17

2M2.1

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C.)
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
- THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
- THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO HIS EQUIPMENT.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
- ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
- THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
- ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
- ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.
- MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
- THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR APPROVAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
- PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
- LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SHEET METAL DUCT
	FLEXIBLE DUCT
	SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
	RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXHAUST FAN
	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
	BALANCING DAMPER
	ELBOW WITH TURNING VANES
	HUMIDISTAT - MOUNTED 48" ABOVE FINISHED FLOOR
	TEMPERATURE SENSOR - MOUNTED 48" ABOVE FINISHED FLOOR
	CONDENSATE DRAIN

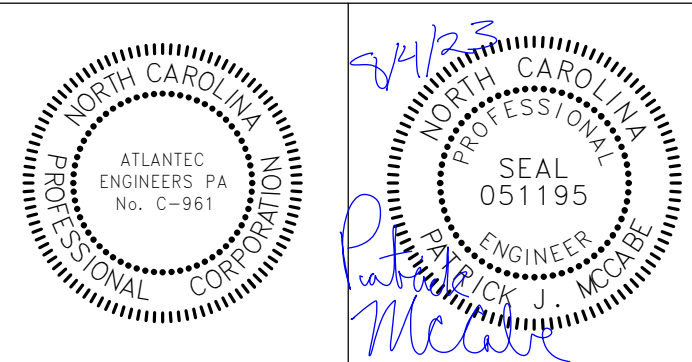
OUTSIDE AIR SUMMARY

REQUIRED:
 OFFICE = 4308 SQFT * 0.06 CFM/SQFT + 50 PERSONS * 5 CFM/PERSON = 509 CFM
 STORAGE = 2691 SQFT * 0.06 CFM/SQFT + 2 PERSONS * 10 CFM/PERSON = 182 CFM
 TOTAL REQUIRED = 691 CFM

PROVIDED:
 FC-1 = 75 CFM
 FC-3 = 100 CFM
 FC-3 = 125 CFM
 FC-4 = 200 CFM
 FC-6 = 75 CFM
 FC-7 = 125 CFM
 TOTAL PROVIDED = 700 CFM

ATLANTEC
 ENGINEERS, PA 22194

3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336



Sequence of Operations for Mechanical, Electrical and Plumbing Systems

THE BAS SHALL CONTROL AND MONITOR THE MECHANICAL, PLUMBING AND ELECTRICAL SYSTEM STATED HEREIN. THE CONTRACTOR SHALL PROVIDE THE NECESSARY HARDWARE, SOFTWARE, SENSORS, WIRING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM TO THE SATISFACTION OF THE OWNER AND ENGINEER. THIS WILL INCLUDE GRAPHICS. THE OWNER SHALL BE THE LICENSE HOLDER FOR ALL SOFTWARE TO BE USED ON SITE.

Mechanical:

VRF SYSTEM (AIR HANDLERS)

A. OCCUPIED MODE:

- THE AIR HANDLING UNIT SUPPLY FAN SHALL BE STARTED AND STOPPED BY THE ENERGY MANAGEMENT SYSTEM UNDER A TIME OF DAY SCHEDULE. THIS SCHEDULE SHALL BE MODIFIED BY AN START STOP OPTIMIZATION PROGRAM THROUGH THE AE-200 CONTROLLER.
- DURING OCCUPANCY, UPON PROOF OF AIR FLOW THRU THE SUPPLY FAN THE NORMALLY CLOSED OUTSIDE AIR DAMPER SHALL BE ENABLED.
- THE SUPPLY AIR TEMPERATURE SHALL BE RESET FROM 55° F TO 70° F AS THE OUTDOOR TEMPERATURE CHANGES FROM 70° F TO 30° F.
- SMOKE DETECTION & AHU SHUTDOWN: THE BUILDING FIRE ALARM SYSTEM SHALL PROVIDE AN AHU SHUT DOWN SIGNAL TO EACH AHU. THE BUILDING FIRE ALARM SYSTEM SHALL PROVIDE ONE DIGITAL OUTPUT TO THE BAS TO INDICATE ALARM CONDITION. WIRING FOR THIS ALARM POINT SHALL BE PROVIDED BY THE BAS SUBCONTRACTOR.
- VENTILATION CYCLES: DURING THE OCCUPIED PERIOD THE 100% OUTSIDE AIR UNIT SHALL BE ENABLED AND DAMPER SHALL BE SET IN THE OPEN POSITION. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED PERIODS, UNOCCUPIED LOW/HIGH LIMIT CONDITIONS, AND PRESTART PERIODS.
- COOLING/HEATING SHALL BE INDEXED TO MAINTAIN SETPOINT.

B. UNOCCUPIED MODE:

- THE AIR HANDLING UNIT SHALL BE DISABLED UNLESS ANY OF THE ASSOCIATED SPACE TEMPERATURE DROPS BELOW THE UNOCCUPIED LOW LIMIT SETPOINT OR RISES ABOVE THE UNOCCUPIED HIGH LIMIT. WHEN THE TEMPERATURE DROPS BELOW THE UNOCCUPIED LOW LIMIT SETPOINT OR RISES ABOVE THE UNOCCUPIED HIGH LIMIT, THE UNIT SHALL OPERATE IN PREPARATORY MODE.
- WHEN THE UNIT IS DISABLED, THE SUPPLY FAN IS OFF. THE OUTDOOR AIR DAMPERS AND RELIEF AIR DAMPERS ARE CLOSED. THE RETURN AIR DAMPERS ARE OPEN.

IN ADDITION TO THE SEQUENCE NOTED ABOVE THE ENERGY MANAGEMENT SYSTEM SHALL MONITOR THE FOLLOWING DIGITAL AND ANALOG INPUT POINTS:

- SUPPLY TEMPERATURE
- MIXED AIR TEMPERATURE
- SUPPLY FAN ON/OFF
- SUPPLY FAN FAULT
- CONDENSING UNIT STAGES
- CONDENSING UNIT FAULT

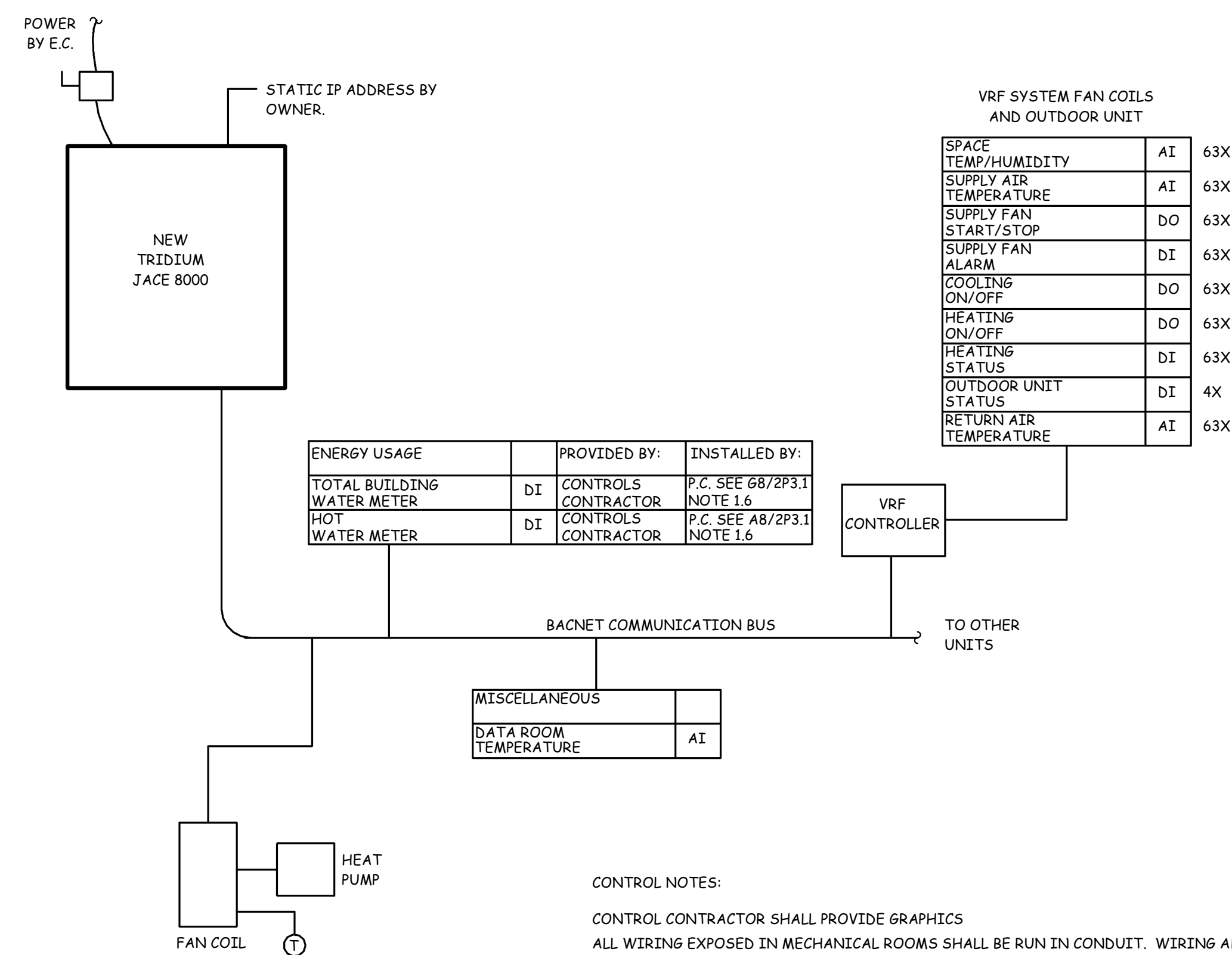
BAS OVERRIDE

ACTIVATION OF THE OVERRIDE PUSHBUTTON AT THE WALL MOUNTED TEMPERATURE SENSOR WILL SWITCH AN AIR HANDLING UNIT CONTROL SEQUENCE FROM THE UNOCCUPIED TO THE OCCUPIED MODE FOR A PROGRAMMABLE TIME PERIOD. THE INITIAL SET UP TIME PERIOD SHALL BE TWO HOURS.

THE DATA ROOM, CONDITIONED BY DUCTLESS SPLIT SYSTEM, WILL HAVE WALL SENSOR TO MONITOR SPACE TEMPERATURE. UNITS SHALL HAVE WALL MOUNTED THERMOSTATS FOR LOCAL CONTROL.

PLUMBING:

THE BAS SHALL MONITOR WATER METERS.



SPACE TEMP/HUMIDITY	AI	63X
SUPPLY AIR TEMPERATURE	AI	63X
SUPPLY FAN START/STOP	DI	63X
SUPPLY FAN ALARM	DI	63X
COOLING ON/OFF	DO	63X
HEATING ON/OFF	DO	63X
HEATING STATUS	DI	63X
OUTDOOR UNIT STATUS	DI	4X
RETURN AIR TEMPERATURE	AI	63X

ENERGY USAGE	PROVIDED BY:	INSTALLED BY:
TOTAL BUILDING WATER METER	DI CONTROLS CONTRACTOR	P.C. SEE #8/2P3.1 NOTE 1.6
HOT WATER METER	DI CONTROLS CONTRACTOR	P.C. SEE A8/2P3.1 NOTE 1.6

MISCELLANEOUS	
DATA ROOM TEMPERATURE	AI

CONTROL NOTES:

CONTROL CONTRACTOR SHALL PROVIDE GRAPHICS
 ALL WIRING EXPOSED IN MECHANICAL ROOMS SHALL BE RUN IN CONDUIT. WIRING ABOVE CEILING SHALL BE PLENUM RATED AND STRAPPED TO OTHER BUILDING ELEMENTS.
 WATER METERS SHALL BE PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR.

MINI-SPLIT SYSTEM BACNET CONTROLLER TO PROVIDE THE FOLLOWING INPUT/OUTPUT MONITORING:

- SPACE TEMPERATURE
- UNIT STATUS
- UNIT ON/OFF

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PRESCRIPTIVE ENERGY COST BUDGET

THERMAL ZONE 3A

EXTERIOR DESIGN CONDITIONS

winter dry bulb: 22°F
 summer dry bulb: 96°F
 relative humidity: 46%

INTERIOR DESIGN CONDITIONS

winter dry bulb: 70°F
 summer dry bulb: 74°F
 relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 83.8 MBH

BUILDING COOLING LOAD: BLOCK LOAD = 159.7 MBH (13.3 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:
 description of unit: } SEE SCHEDULES ON SHEET(S) 2M2.1
 heating efficiency:
 cooling efficiency:
 heat output of unit:
 cooling output of unit:

Boiler: N/A
 total boiler capacity, If oversized state reason.

Chiller: N/A
 total chiller capacity, If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET(S) 2M2.1

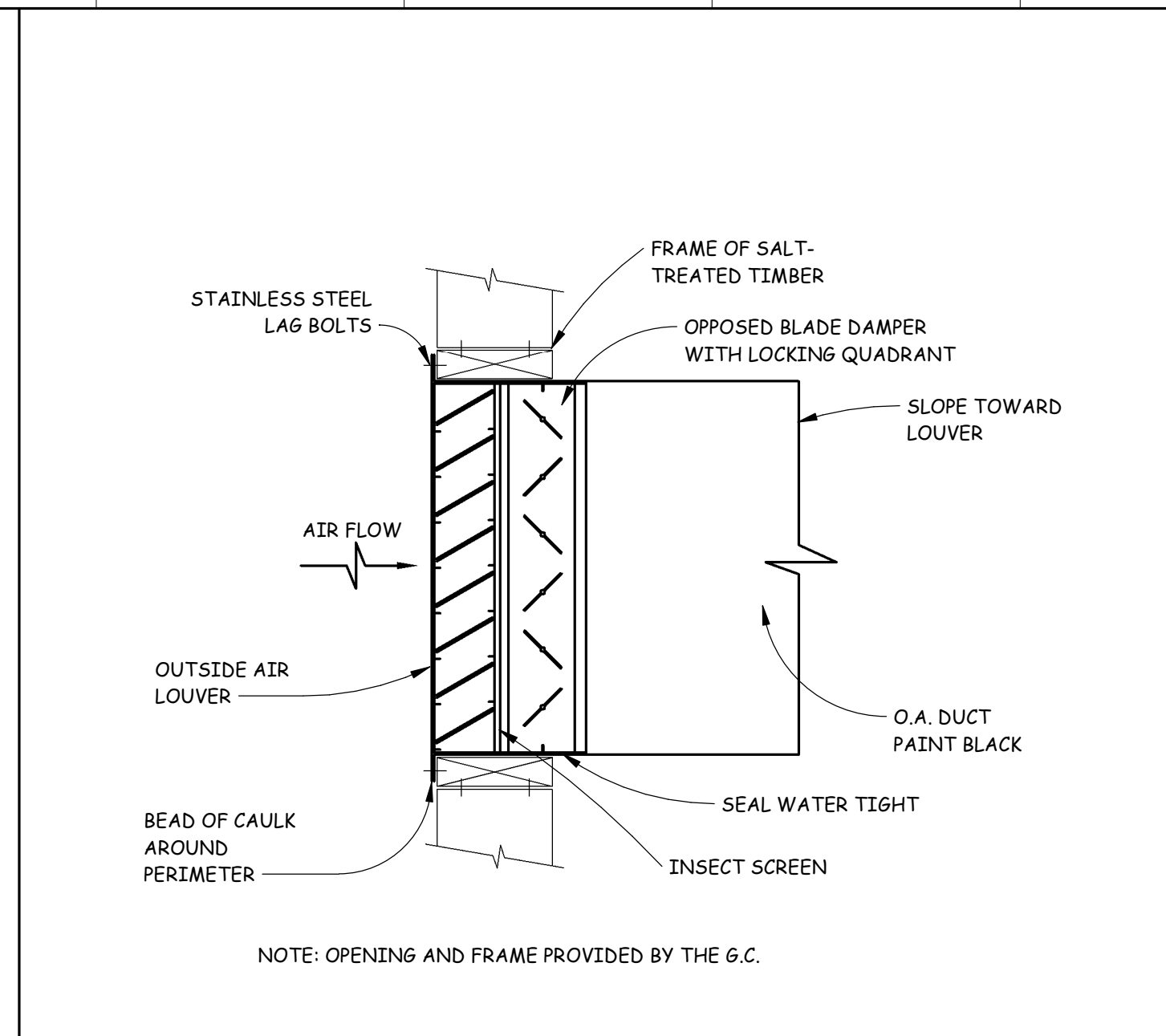
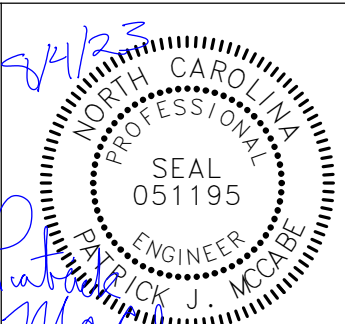
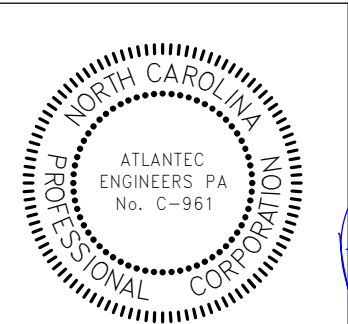
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

motor horsepower:
 number of phases:
 minimum efficiency:
 motor type:
 # of poles: } SEE SCHEDULES ON SHEET(S) 2M2.1

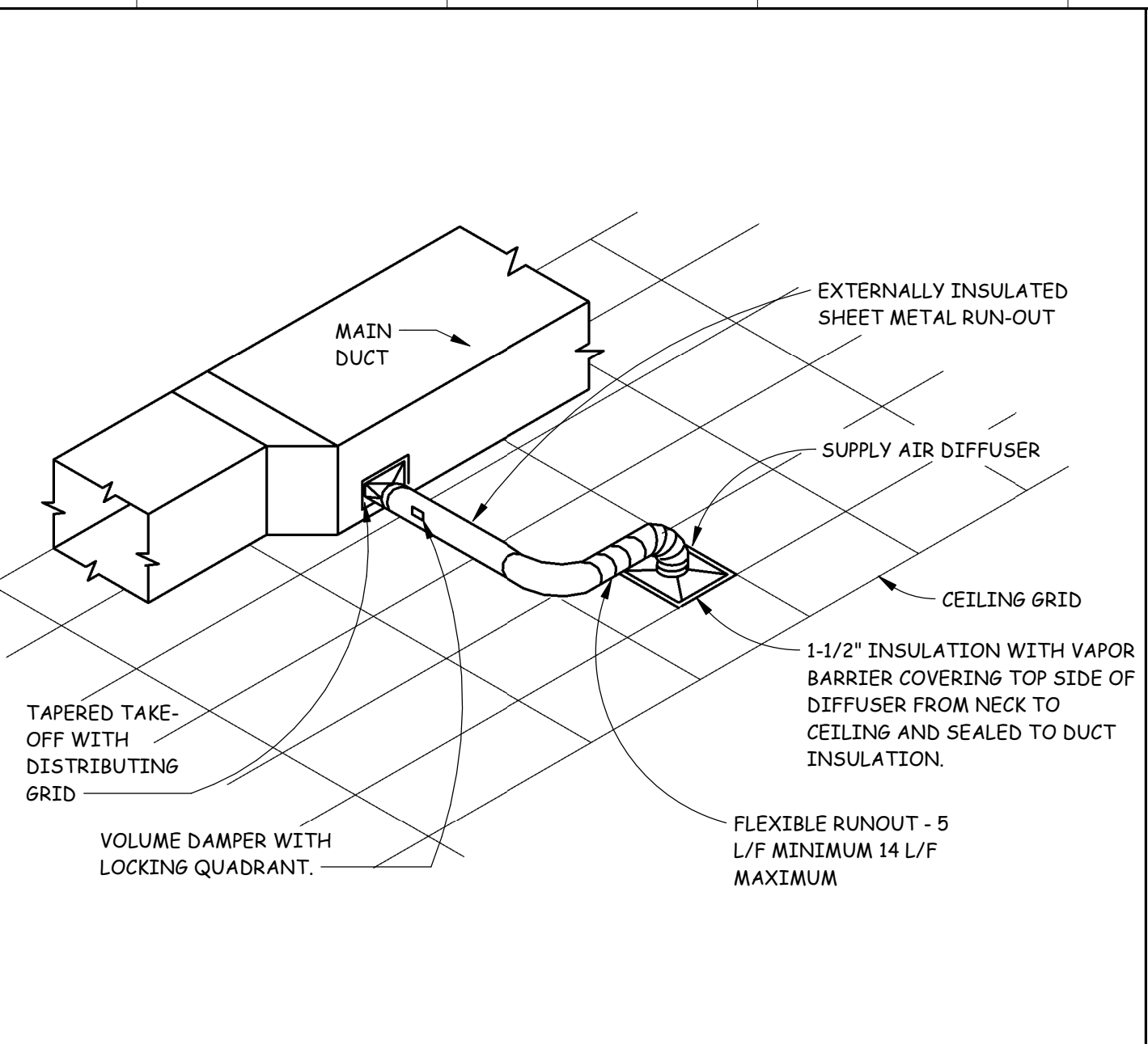
DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code.

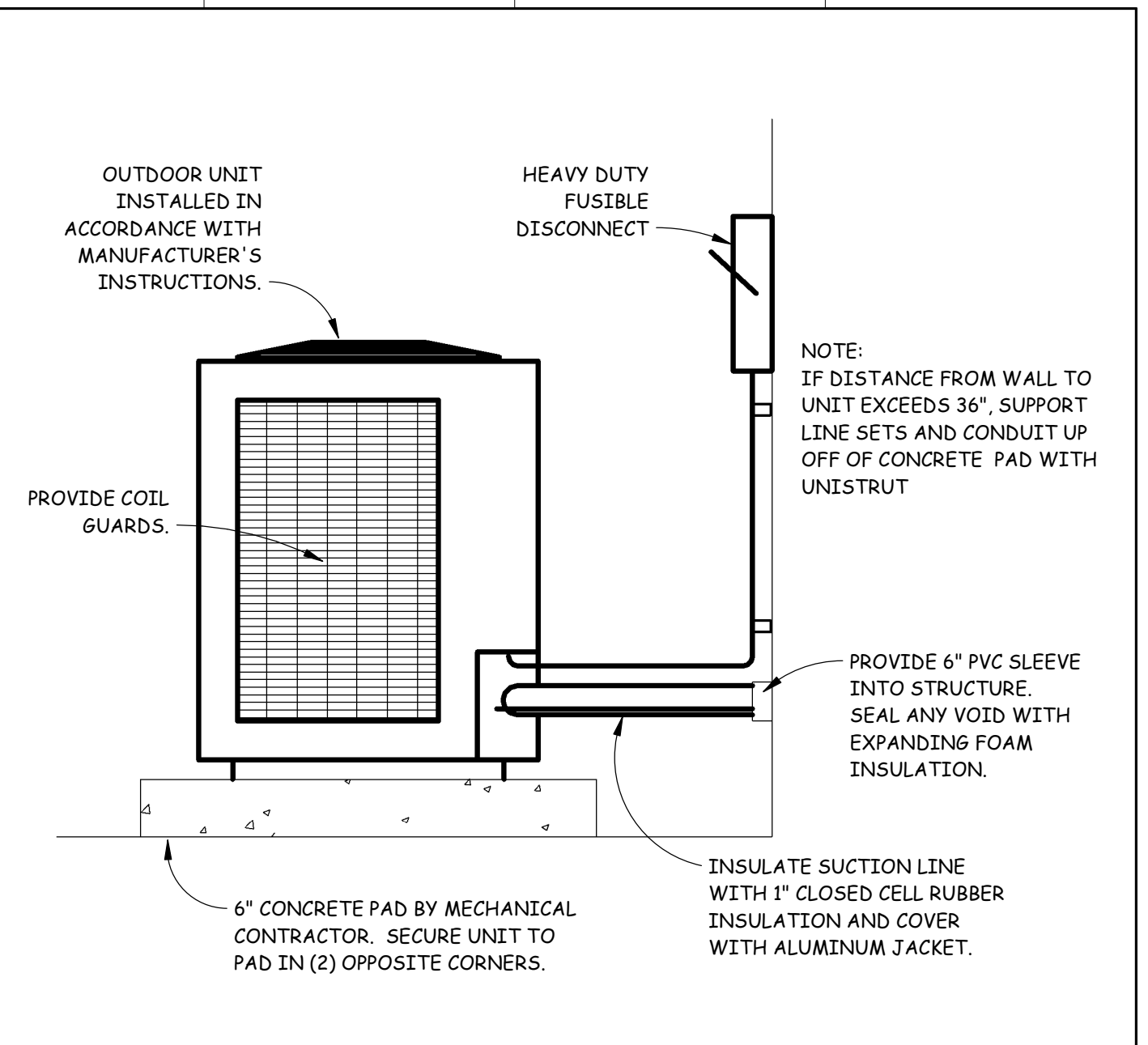
SIGNED: Patrick McCabe
 NAME: Patrick J. McCabe, PE
 TITLE: Professional Engineer



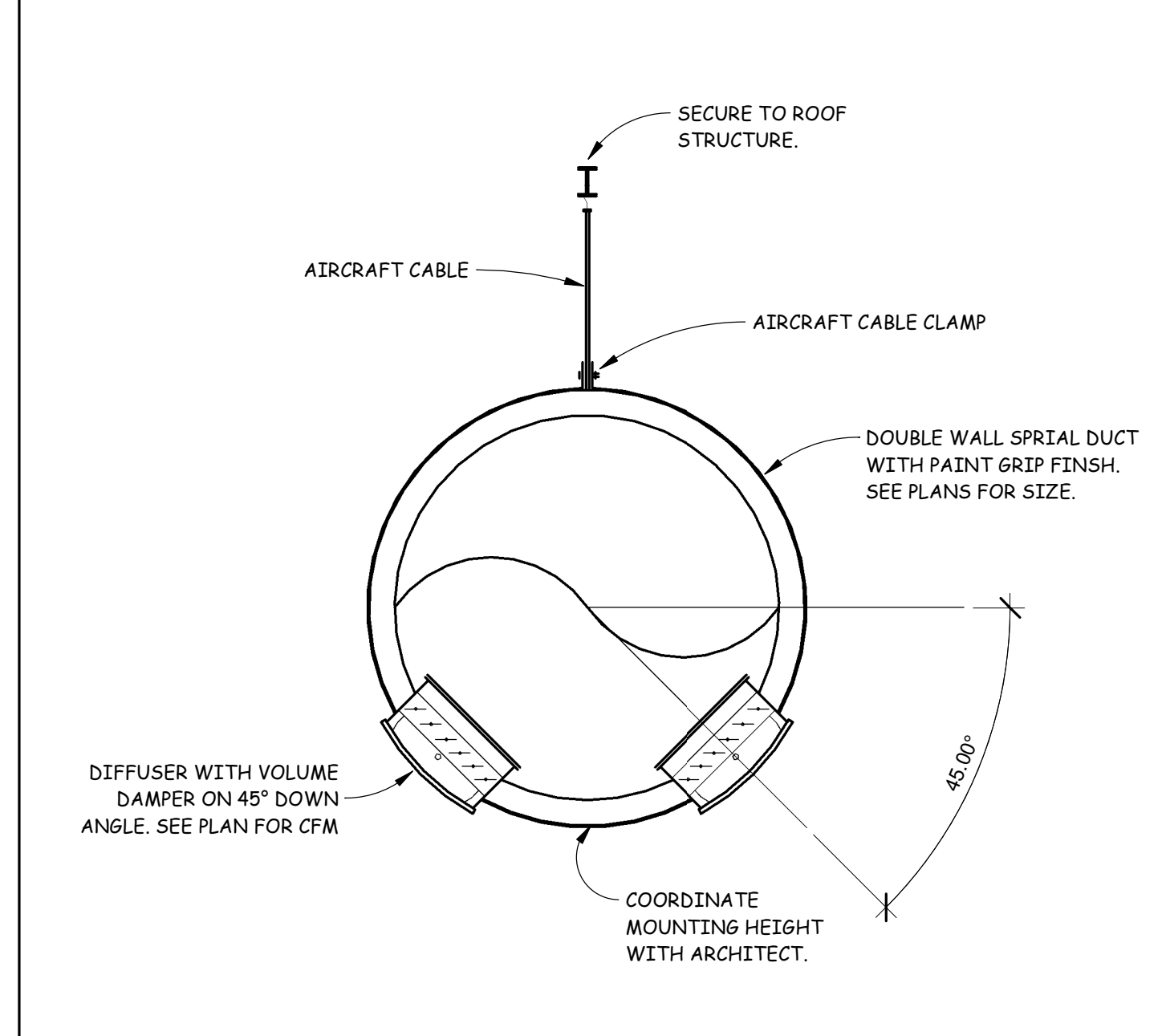
9 OUTSIDE AIR INTAKE LOUVER DETAIL
2M3.1 NOT TO SCALE



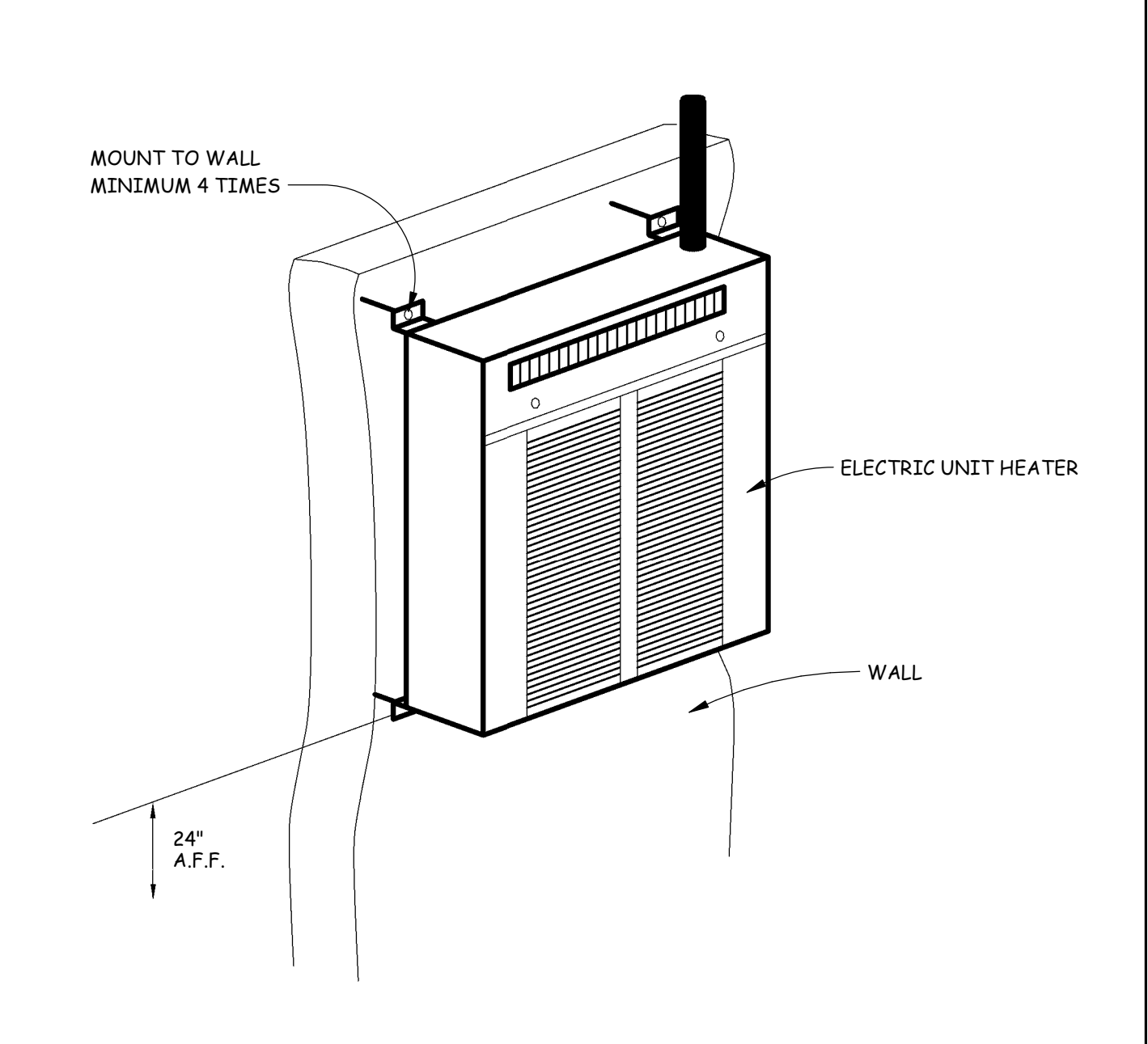
6 LAY IN DIFFUSER DETAIL
2M3.1 NOT TO SCALE



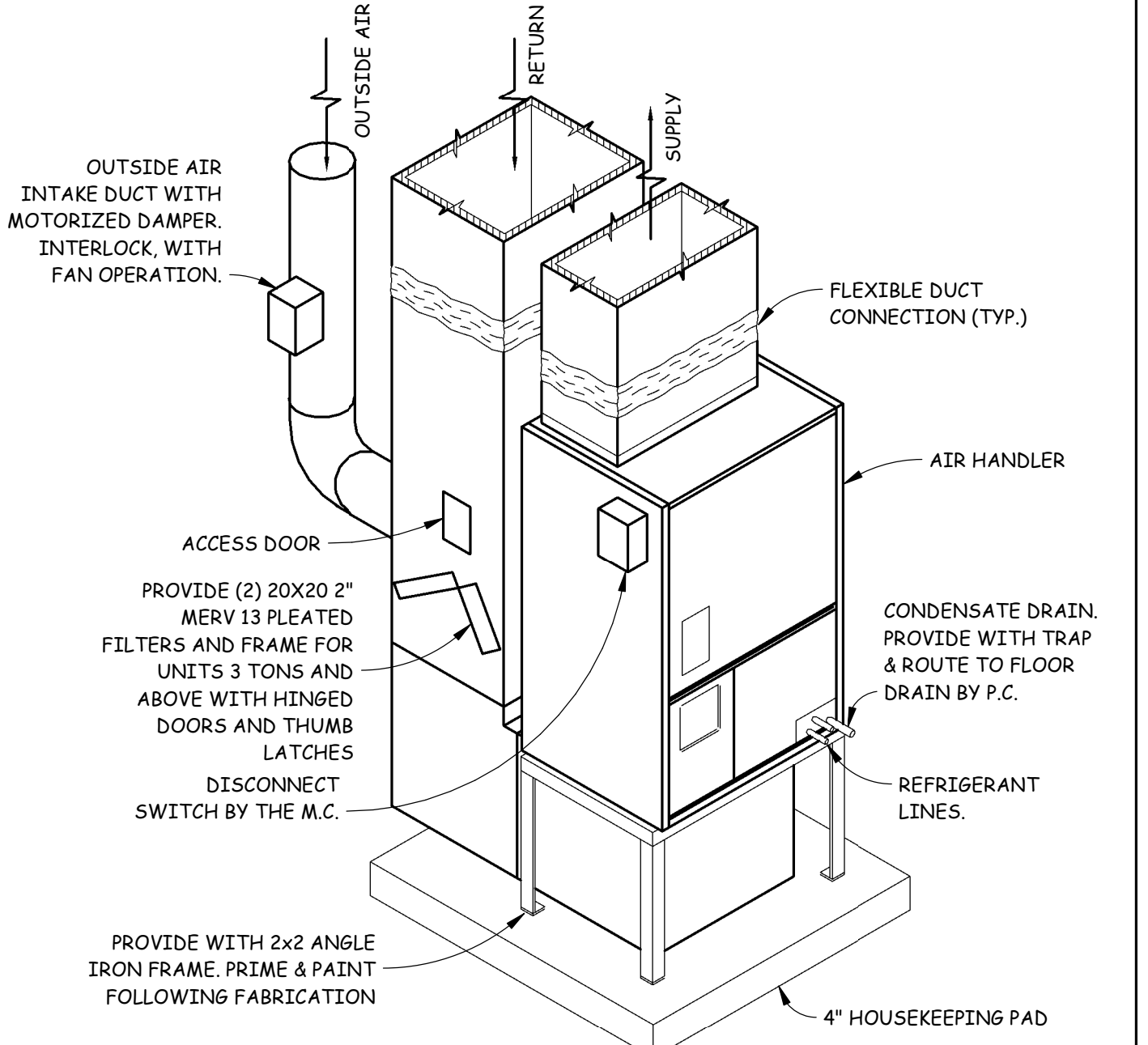
3 OUTDOOR UNIT DETAIL
2M3.1 NOT TO SCALE



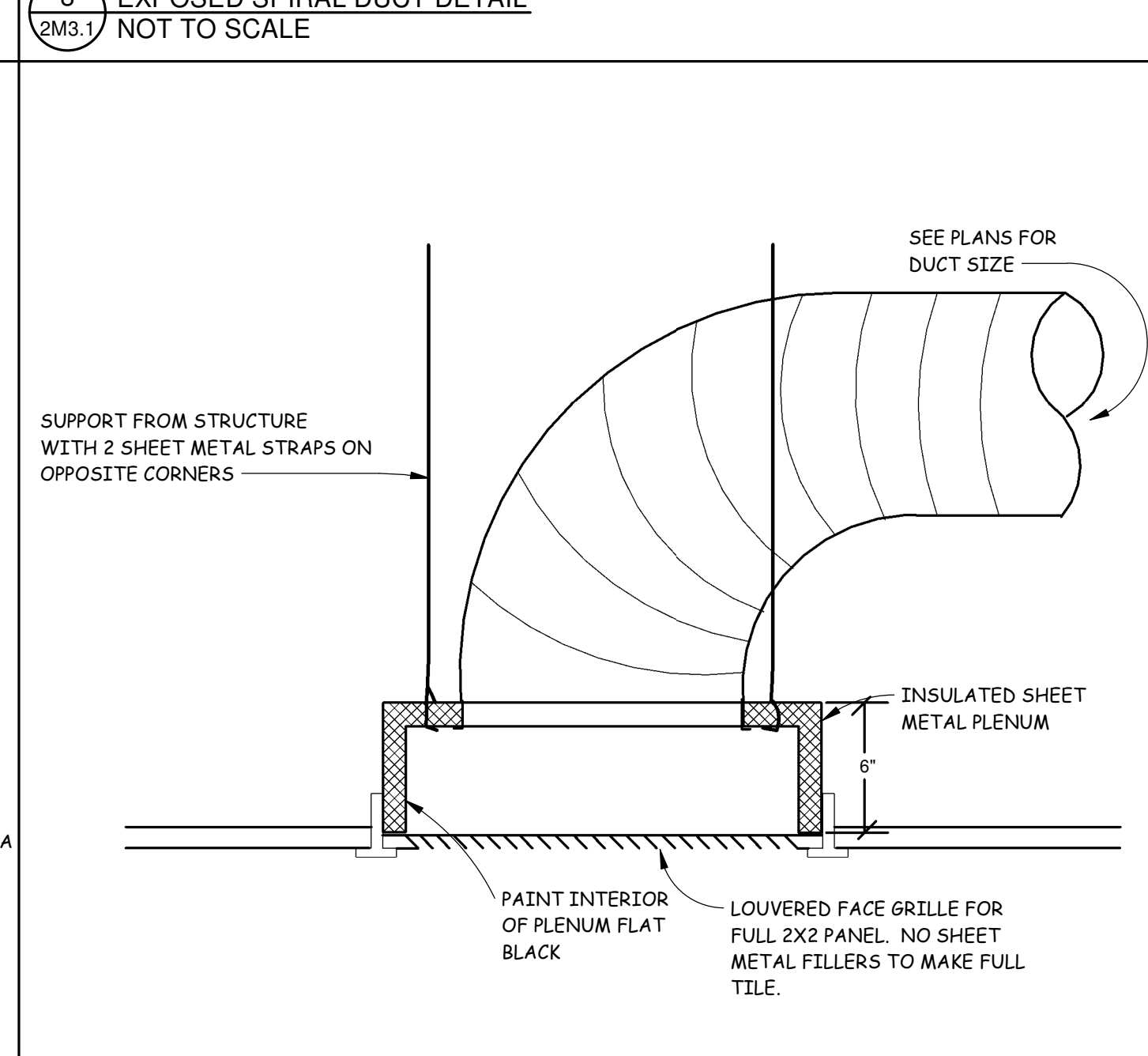
8 EXPOSED SPIRAL DUCT DETAIL
2M3.1 NOT TO SCALE



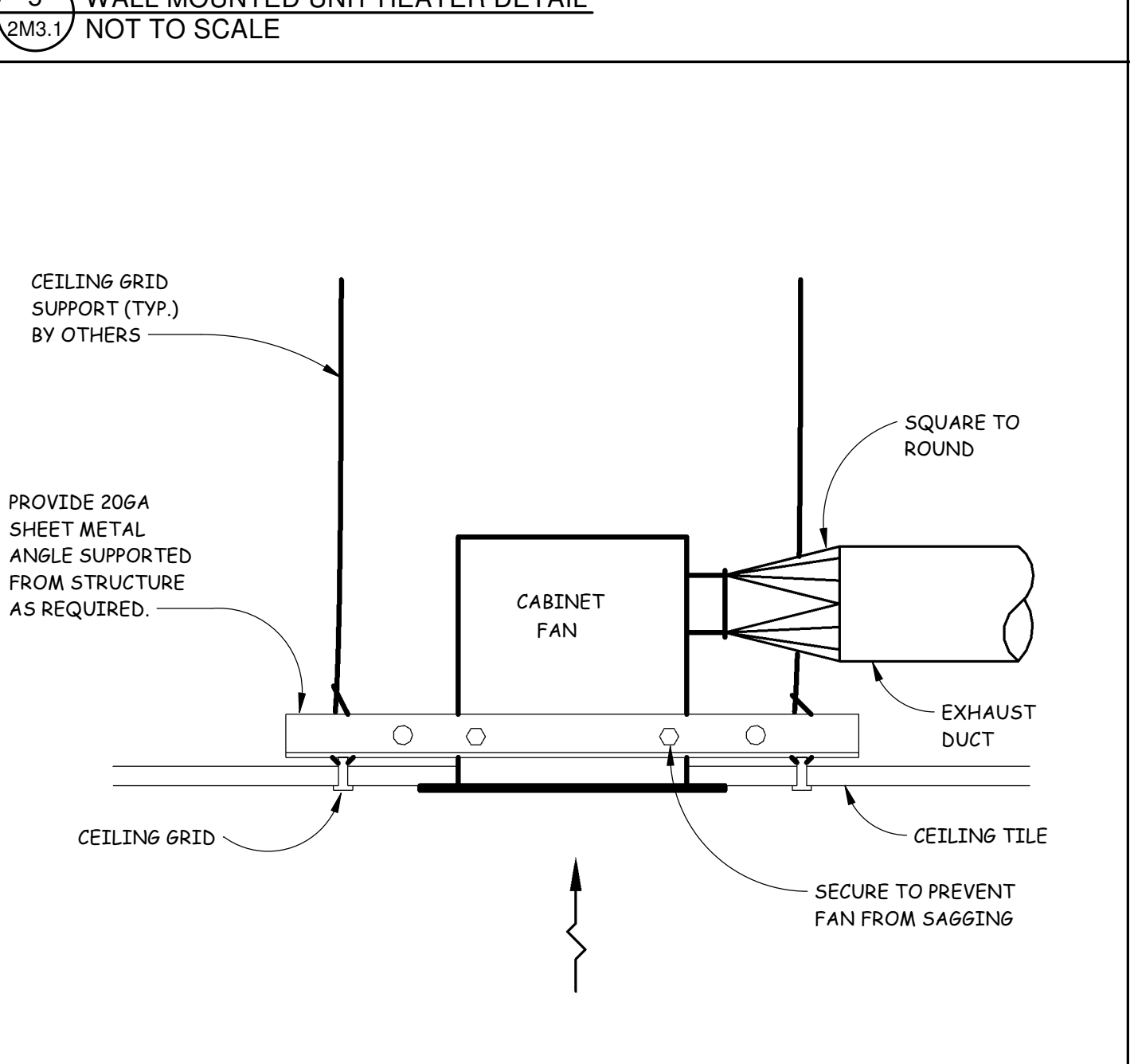
5 WALL MOUNTED UNIT HEATER DETAIL
2M3.1 NOT TO SCALE



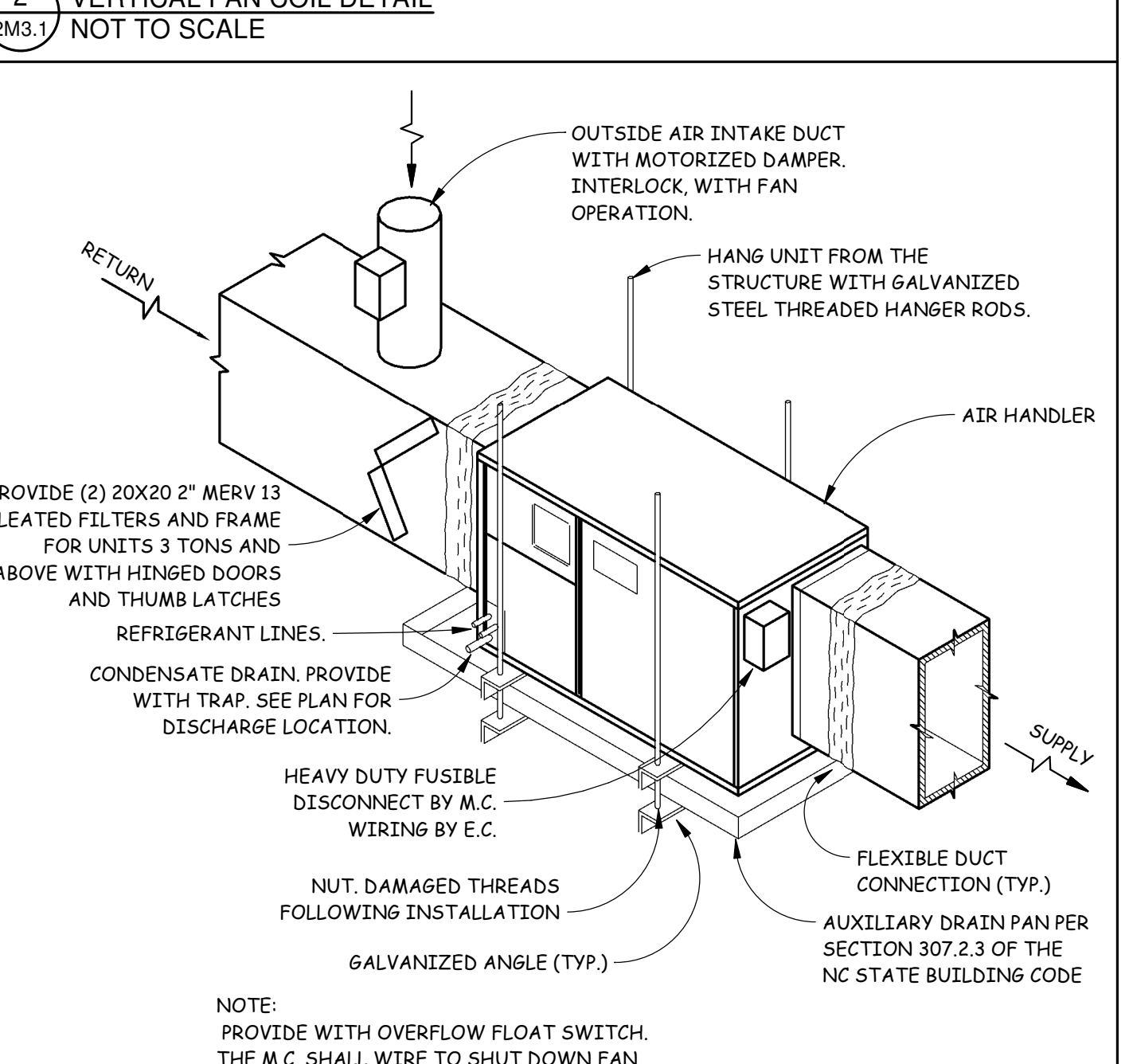
2 VERTICAL FAN COIL DETAIL
2M3.1 NOT TO SCALE



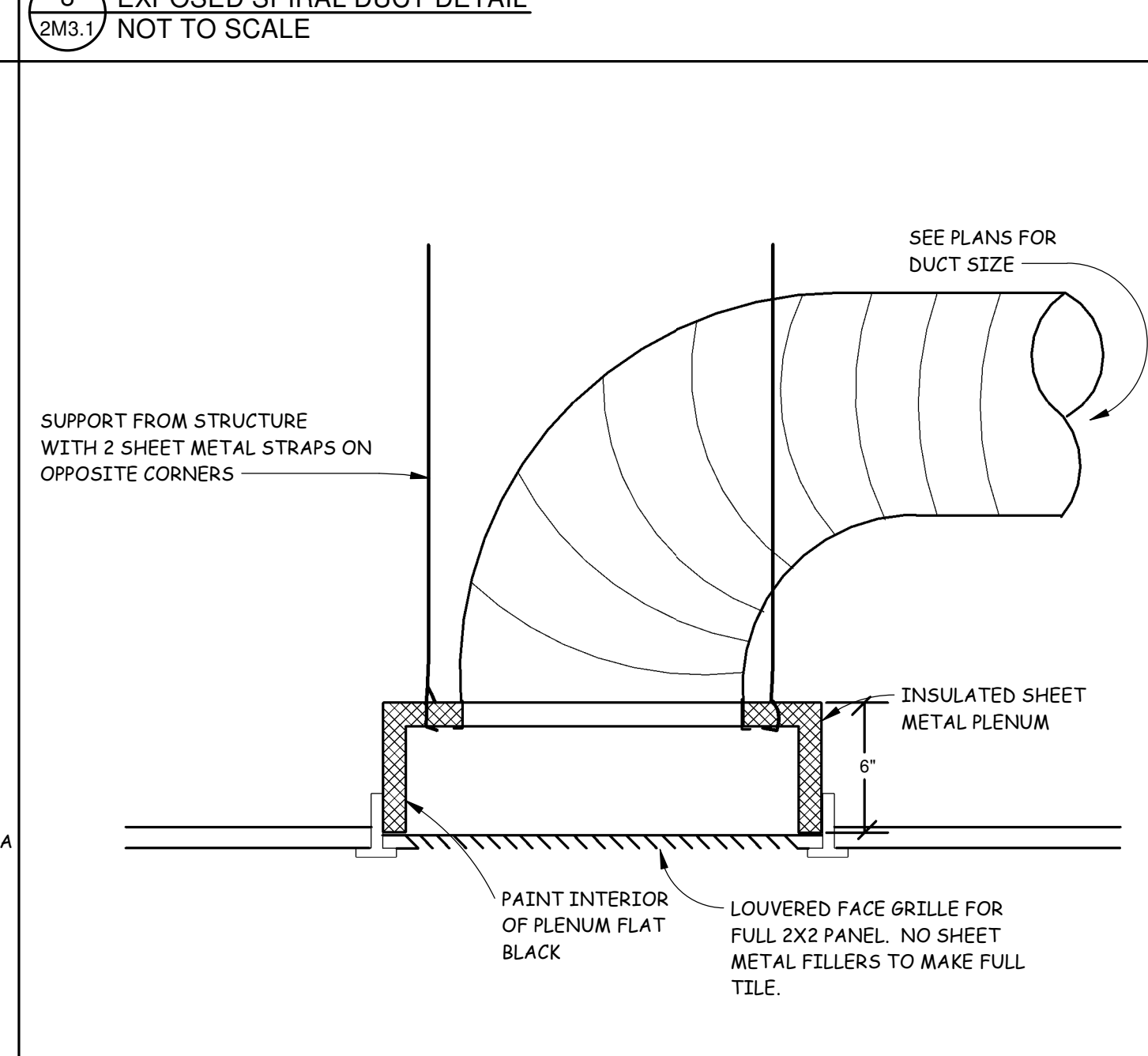
7 RETURN GRILLE DETAIL
2M3.1 NOT TO SCALE



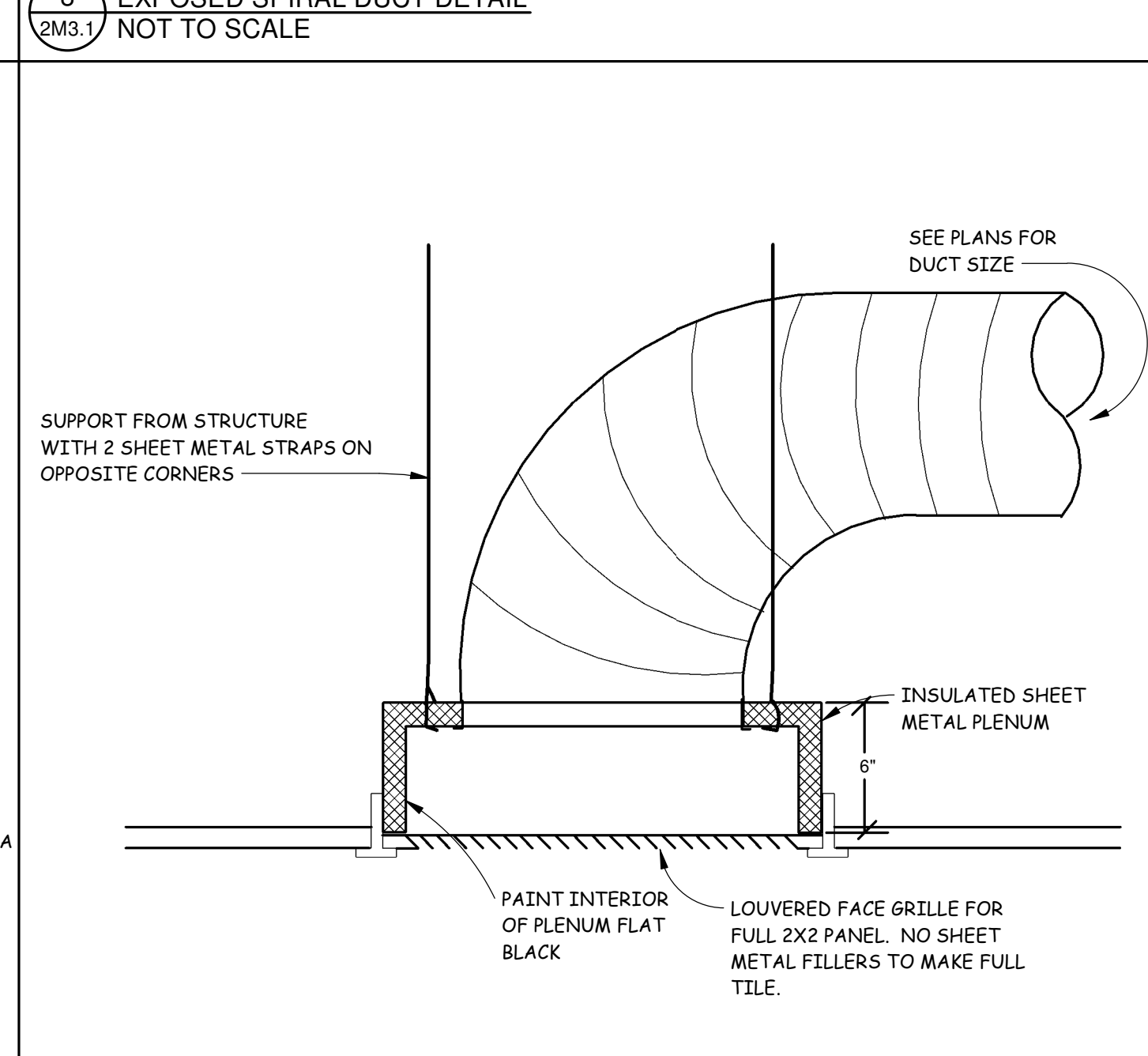
4 CABINET FAN DETAIL
2M3.1 NOT TO SCALE



1 HORIZONTAL FAN COIL DETAIL
2M3.1 NOT TO SCALE



11 BRANCH BOX DETAIL
2M3.1 NOT TO SCALE



10 TYPICAL WIRING DETAIL
2M3.1 NOT TO SCALE

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

JKF
ARCHITECTURE

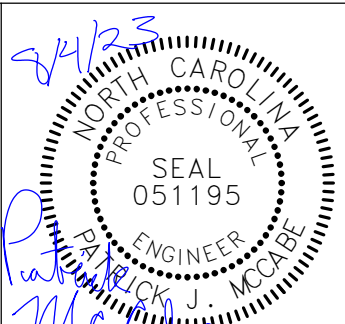
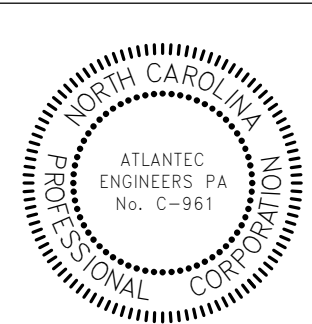
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27639 252-355-1068

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

MECHANICAL DETAILS

SCALE	As indicated
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

2M3.1



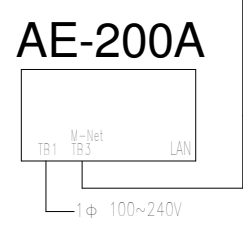
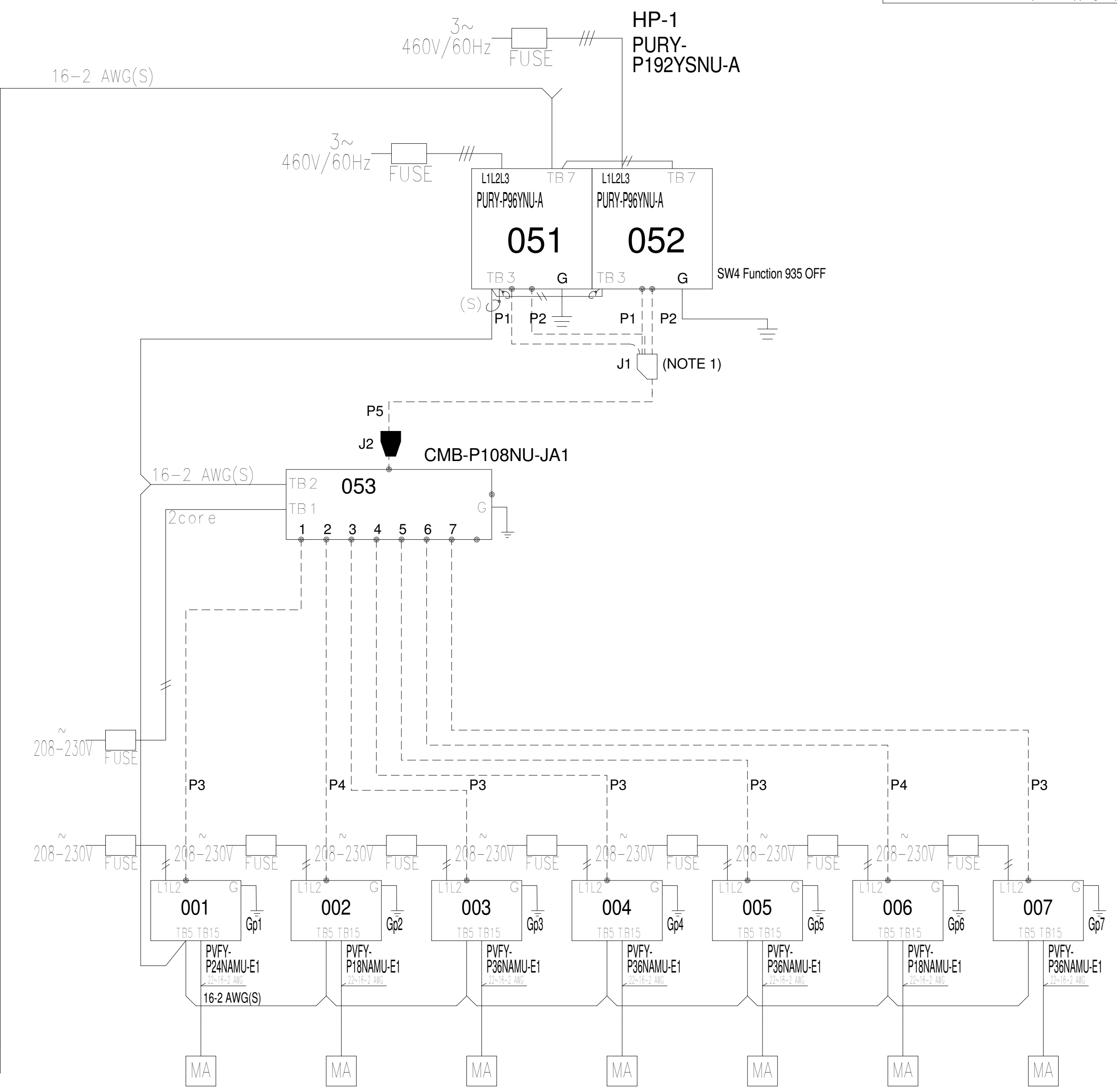
CITY MULTI SYSTEM SCHEMATIC DWG.

DIAGRAM DISPLAY	SYMBOL DESCRIPTION	CONT.No	PAGE
---	POWER WIRE		
---	CONTROL WIRE		
---	REF. PIPE		

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R200NCBK
J2	CMY-R302S-G1
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/4"
P2	7/8"
P3	3/8" / 5/8"
P4	1/4" / 1/2"
P5	7/8" / 1-1/8"
SYMBOL	MODEL NUMBER
MA	PAR-40MAU

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record. Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm(16 AWG) : 1.25mm(16 AWG) or more.
0.75mm(20 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).

Coded Notes:
NOTE 1: Install twinning Y's within 15 degrees of level and with 20 inches of straight pipe on converging connection - reference installation manual for additional details including but not limited to special trapping requirements when twinning, and pipe slope requirements



Diamond System Builder
sw: 4.5.3.3
db: 4.5.2.5
5/31/2023
9:58 AM

FC-1 FC-2 FC-3 FC-4 FC-5 FC-6 FC-7

REMARKS
Comments:

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

JKF
ARCHITECTURE

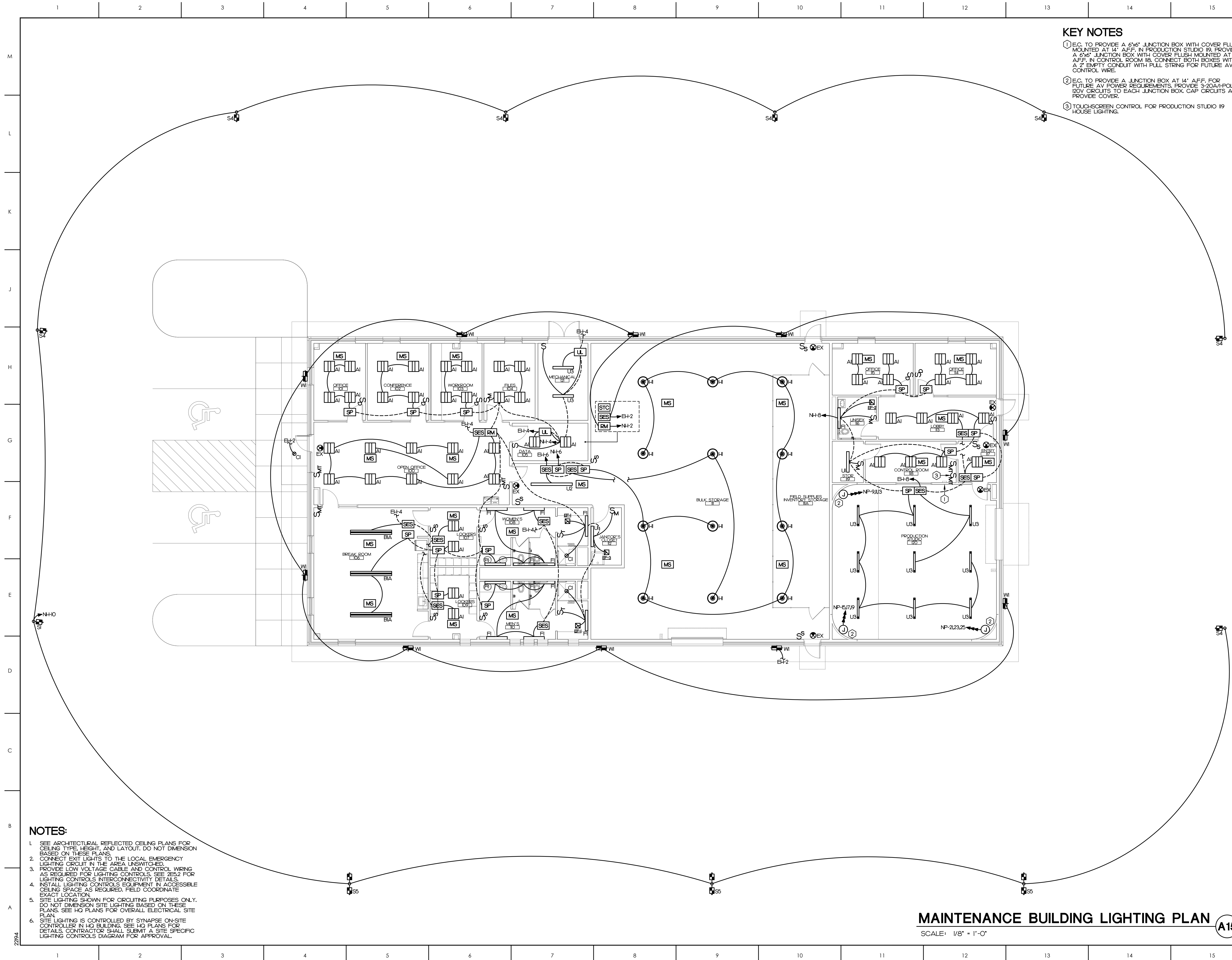
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27638 252-355-1068

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
VRF INFORMATION

SCALE	
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

2M4.1



KEY NOTES

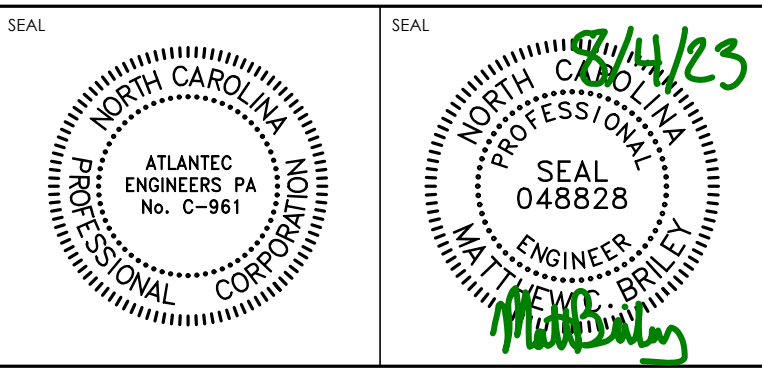
- E.G. TO PROVIDE A 6"x6" JUNCTION BOX WITH COVER FLUSH MOUNTED AT 14" AFF. IN PRODUCTION STUDIO 19. PROVIDE A 6"x6" JUNCTION BOX WITH COVER FLUSH MOUNTED AT 18" AFF. IN CONTROL ROOM 18. CONNECT BOTH BOXES WITH A 2" EMPTY CONDUIT WITH PULL STRING FOR FUTURE AV CONTROL WIRE.
- E.G. TO PROVIDE A JUNCTION BOX AT 14" AFF. FOR FUTURE AV POWER REQUIREMENTS. PROVIDE 3-20A/1-POLE 120V CIRCUITS TO EACH JUNCTION BOX. CAP CIRCUITS AND PROVIDE COVER.
- TOUCH-SCREEN CONTROL FOR PRODUCTION STUDIO 19 HOUSE LIGHTING.

NOTES:

- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. DO NOT DIMENSION BASED ON THESE PLANS.
- CONNECT EXIT LIGHTS TO THE LOCAL EMERGENCY LIGHTING CIRCUIT IN THE AREA UNSWITCHED.
- PROVIDE LOW VOLTAGE CABLE AND CONTROL WIRING AS REQUIRED FOR LIGHTING CONTROLS. SEE 2E1.2 FOR LIGHTING CONTROLS INTERCONNECTIVITY DETAILS.
- INSTALL LIGHTING CONTROLS EQUIPMENT IN ACCESSIBLE CEILING SPACE AS REQUIRED. FIELD COORDINATE EXACT LOCATION.
- SITE LIGHTING SHOWN FOR CIRCUITING PURPOSES ONLY. DO NOT DIMENSION SITE LIGHTING BASED ON THESE PLANS. SEE HQ PLANS FOR OVERALL ELECTRICAL SITE PLAN.
- SITE LIGHTING IS CONTROLLED BY SYNAPSE ON-SITE CONTROLLER IN HQ BUILDING. SEE HQ PLANS FOR DETAILS. CONTRACTOR SHALL SUBMIT A SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL.

MAINTENANCE BUILDING LIGHTING PLAN (A15)
 SCALE: 1/8" = 1'-0"

ATLANTEC ENGINEERS, PA 2294
 3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336



KEY PLAN

NO	REVISION	DATE

JKF
 ARCHITECTURE

635 LYNHDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
 CLINTON, NC

DRAWING TITLE
OPERATIONS BUILDING LIGHTING PLAN

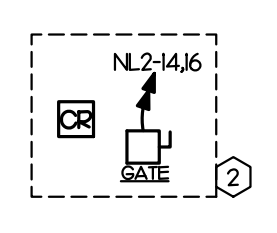
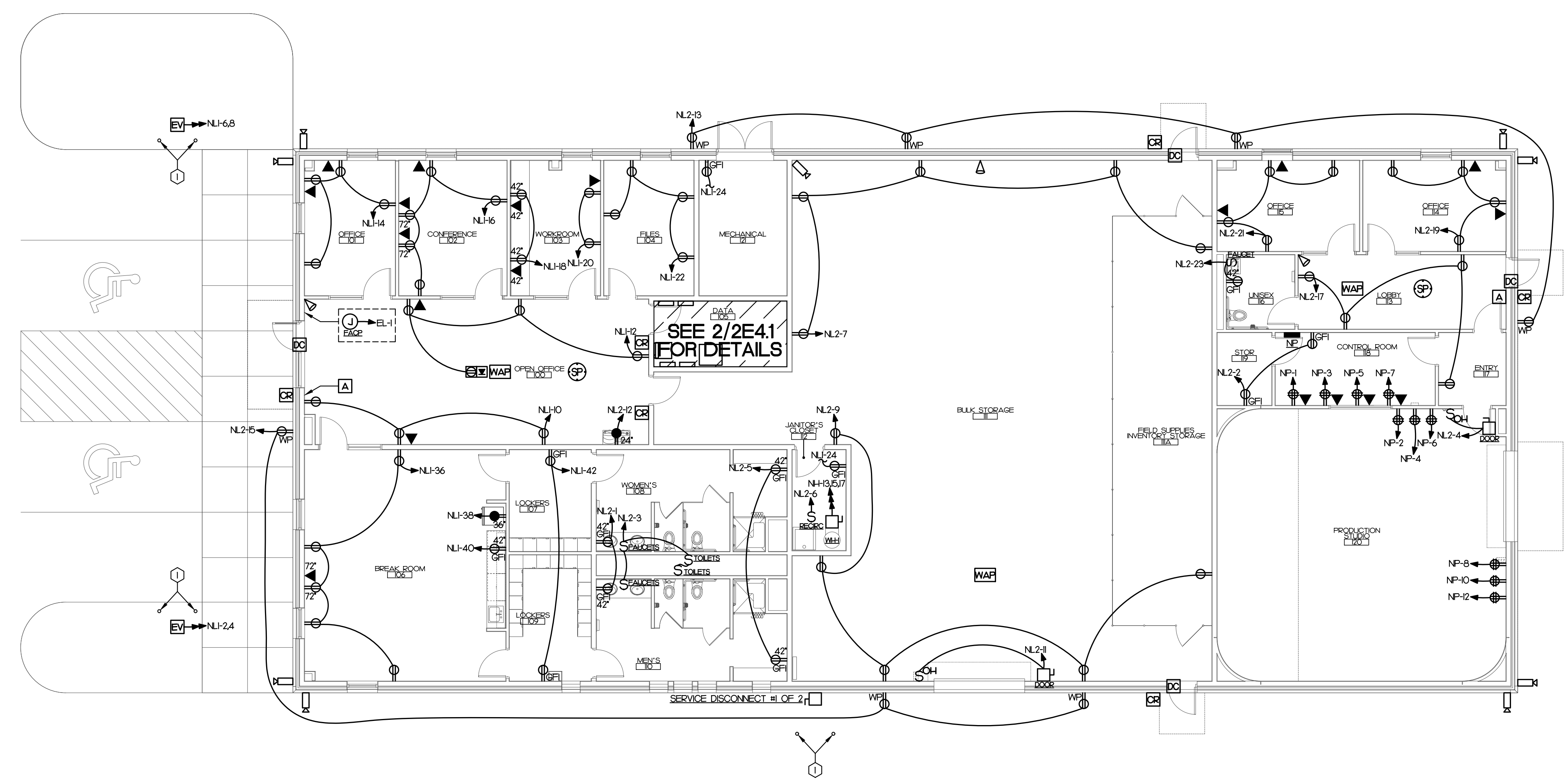
SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	2E1.1
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

KEY NOTES
 ① E.C. TO PROVIDE BOLLARDS PER 2018 NFPA SECTION 312 FOR PROTECTION OF ELECTRICAL EQUIPMENT.
 ② GATE OPERATOR LOCATED ON SITE. FIELD COORDINATE EXACT LOCATION. E.C. TO PROVIDE 1" CONDUIT WITH CONTROL WIRE AS REQUIRED TO GATE OPERATOR LOCATION. FIELD COORDINATE ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.

ATLANTEC ENGINEERS, PA
 2294
 3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336

SEAL
 NORTH CAROLINA PROFESSIONAL CORPORATION
 ATLANTEC ENGINEERS PA
 No. C-981

SEAL
 NORTH CAROLINA PROFESSIONAL CORPORATION
 SEAL 048828
 W. T. BRILEY
 ENGINEER



NOTES:
 1. E.C. TO PROVIDE ALL LOW VOLTAGE CABLE AND CONTROL WIRING IMPLIED BY THIS PLAN. SEE SYMBOL LEGEND FOR ADDITIONAL DETAILS.
 2. E.C. TO FIELD COORDINATE THE INSTALLATION OF ALL SECURITY DEVICES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

MAINTENANCE BUILDING POWER PLAN
 SCALE: 1/8" = 1'-0"

A15

KEY PLAN

NO	REVISION	DATE

SEAL

JKF
 ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
 CLINTON, NC

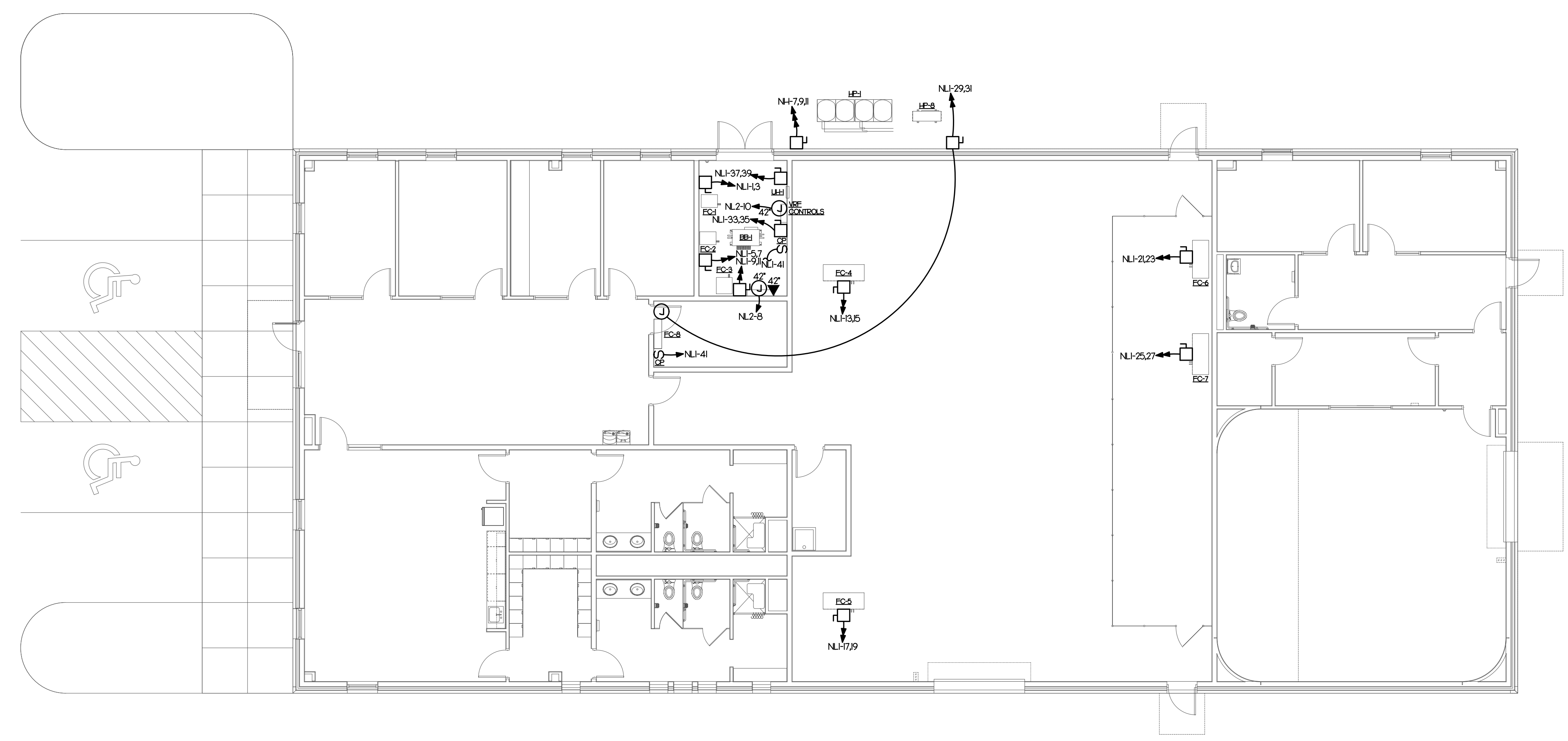
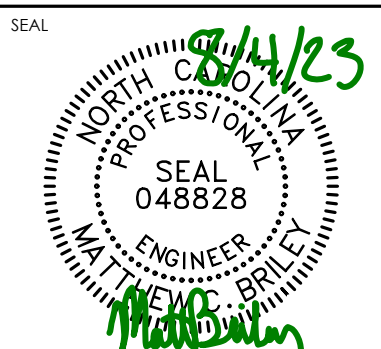
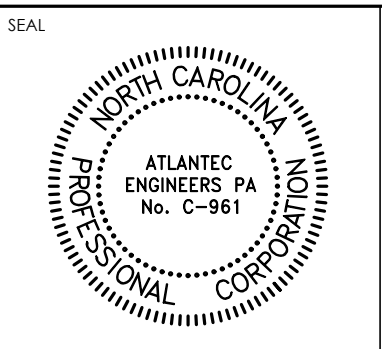
DRAWING TITLE
OPERATIONS BUILDING POWER PLAN

SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	2E2.1
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

M
L
K
J
H
G
F
E
D
C
B
A

ATLANTEC
ENGINEERS, PA 2294
322 BLUE RIDGE ROAD, SUITE 103
RALEIGH, NC 27612
PH: (919) 571-1111
1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-3336



NOTES:
1. E.C. TO FIELD COORDINATE EXACT EQUIPMENT
DISCONNECT LOCATIONS WITH I.M.C. PRIOR TO ROUGH-IN
TO MAINTAIN ADEQUATE CLEARANCES.

KEY PLAN

NO	REVISION	DATE

JKF
ARCHITECTURE

625 LYNHDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW
OPERATIONS BUILDING
CLINTON, NC

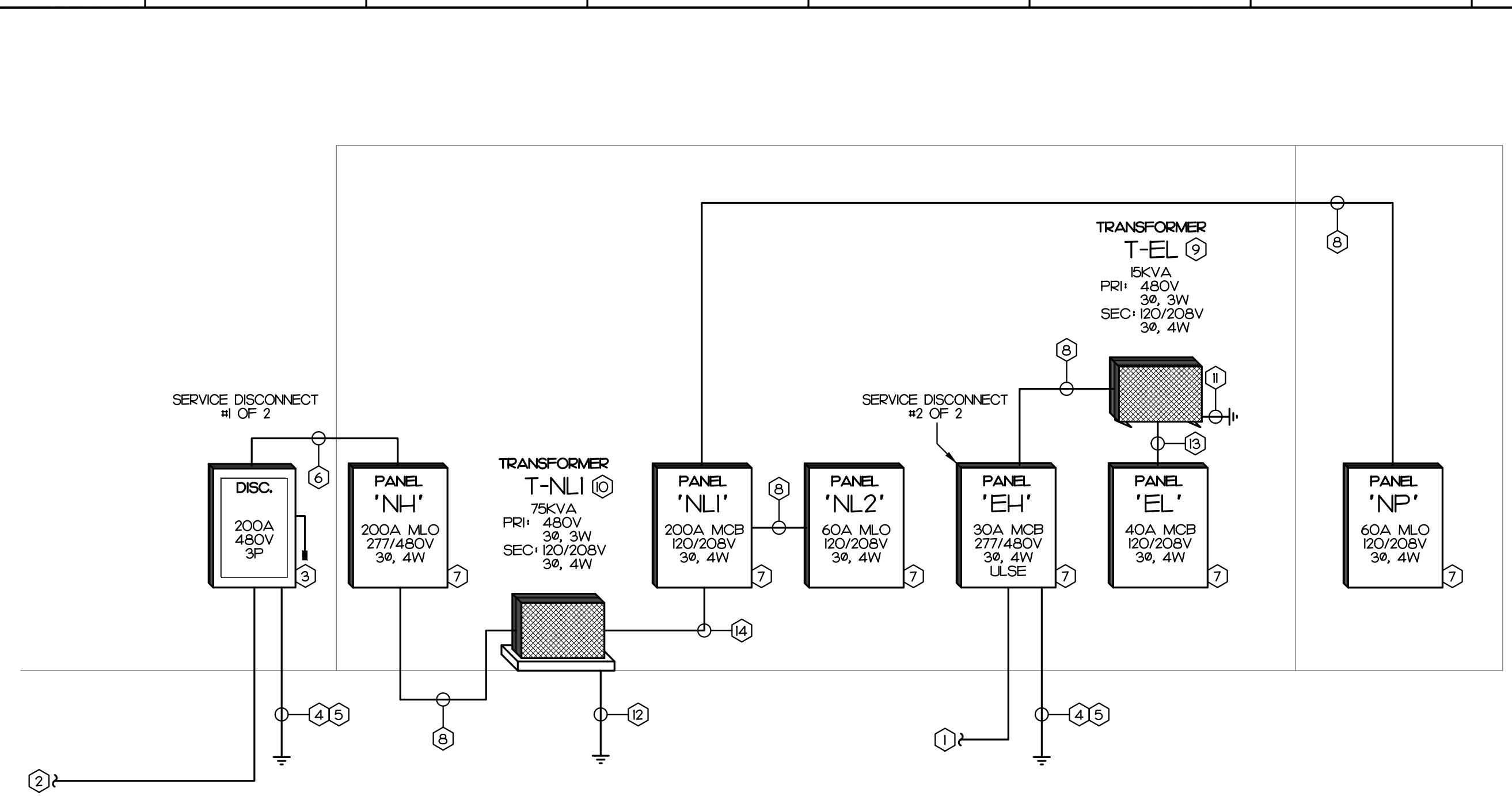
DRAWING TITLE
OPERATIONS BUILDING
HVAC POWER PLAN

SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	2E3.1
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

MAINTENANCE BUILDING HVAC POWER PLAN (A15)
SCALE: 1/8" = 1'-0"

2294 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COPYRIGHT, JKF ARCHITECTURE P.C., JOHN K. FARKAS, AIA



- KEY NOTES**
- ① NEW 30A FEEDER FROM PANEL 'EDP' IN HQ BUILDING. SEE HQ PLANS FOR DETAILS.
 - ② NEW 200A FEEDER FROM PANEL 'NDP' IN HQ BUILDING. SEE HQ PLANS FOR DETAILS.
 - ③ NEW 480V, 3-POLE, NEMA 3R, 200A, SERVICE-RATED DISCONNECT FUSED AT 200A WITH CURRENT LIMITING FUSES.
 - ④ GROUNDING ELECTRODE CONDUCTORS PER NEC 250.1:
 - I-#4G IN 1/2" CONDUIT TO CW MAIN, SPRINKLER MAIN, AND BUILDING STEEL.
 - I-#4G IN 1/2" CONDUIT TO REINFORCED STEEL AT CONCRETE FOOTING.
 - I-#6G IN 1/2" CONDUIT TO 2 DRIVEN RODS.
 - ⑤ BOND SERVICES WITH I-#4G PER NEC 250.
 - ⑥ 4-#3/0, I-#6G IN 2" CONDUIT.

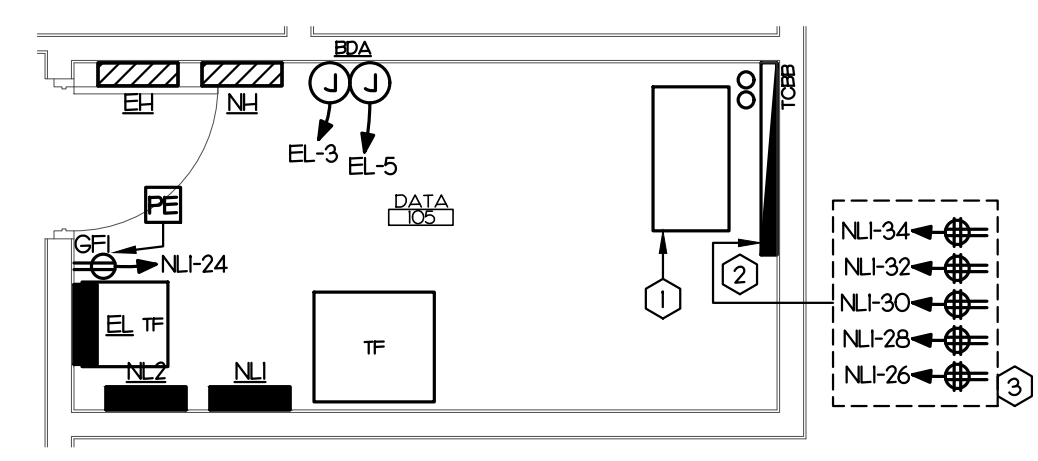
- NOTES:**
- ⑦ NEW PANEL BOARD. SEE PANEL SCHEDULE FOR DETAILS.
 - ⑧ NEW FEEDER. SEE PANEL SCHEDULE FOR DETAILS.
 - ⑨ NEW 15KVA, 480V DELTA PRIMARY TO 120/208V WYE SECONDARY, DRY-TYPE TRANSFORMER, WALL MOUNT ABOVE PANEL. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
 - ⑩ NEW 75KVA, 480V DELTA PRIMARY TO 120/208V WYE SECONDARY, DRY-TYPE TRANSFORMER.
 - ⑪ GROUNDING ELECTRODE CONDUCTORS PER NEC 250.1:
 - I-#6G IN 1/2" CONDUIT TO BUILDING STEEL.
 - ⑫ GROUNDING ELECTRODE CONDUCTORS PER NEC 250.1:
 - I-#4G IN 1/2" CONDUIT TO BUILDING STEEL.
 - ⑬ 4-#8, I-#8G IN 3/4" CONDUIT.
 - ⑭ 4-#3/0, I-#4G IN 2" CONDUIT.

NOTES:
 1. NORMAL AND EMERGENCY SERVICE DISCONNECTS SEPARATED TO COMPLY WITH 2020 NEC 225.34(B).

POWER RISER (G8)
 NOT TO SCALE

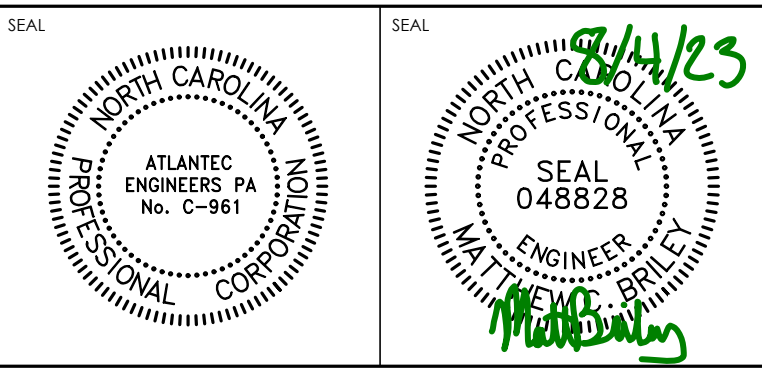
KEY NOTES

- ① E.C. TO PROVIDE CORP 19"W x 7 1/4" x 3 1/2" 4-POST RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
- ② COMMUNICATION BOARD:
 - 2-4" CONDUITS WITH 2-1" INNERDUCTS EACH ENCASED IN CONCRETE FROM MAIN DATA 121 IN THE HEADQUARTERS BUILDING TO DATA 105. TERMINATE THE I-24 STRAND SINGLE MODE FIBER PER OWNER INSTRUCTION AT CORP 19" 4-POST RACK IN DATA 105.
 - PROVIDE GROUND BAR AND I-#6G CU IN 1/2" CONDUIT TO PANEL.
- ③ E.C. TO FIELD COORDINATE THE INSTALLATION OF POWER FOR RACKS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE RECEPTACLES, WHPS, AND PLUGS AS REQUIRED.



ENLARGED POWER PLAN - DATA 105 (G15)
 SCALE: 1/4" = 1'-0"

3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336



KEY PLAN



PANEL EH		277/480V, 3 PHASE, 4 WIRE													
OCT	DESCRIPTION	KVA	C	G	W	CB	OCT	OCT	CB	W	G	C	KVA	DESCRIPTION	OCT
1	T-EL	0.5	1/2	12	12	20	1	2	20	12	12	1/2	0.1	EXTERIOR EM LTS	2
3		0.5	--	--	12	3P	3	4	20	12	12	1/2	0.4	100J05-10J325 EM LTS	4
5		0.5	--	--	12	--	5	6	20	12	12	1/2	0.3	III EM LTS	6
7	SPACE ONLY	0.0	--	--	--	--	7	8	20	12	12	1/2	0.2	13J1720 EM LTS	8
9	SPACE ONLY	0.0	--	--	--	--	9	10	--	--	--	--	0.0	SPACE ONLY	10
11	SPACE ONLY	0.0	--	--	--	--	11	12	--	--	--	--	0.0	SPACE ONLY	12
13	SPACE ONLY	0.0	--	--	--	--	13	14	--	--	--	--	0.0	SPACE ONLY	14
15	SPACE ONLY	0.0	--	--	--	--	15	16	--	--	--	--	0.0	SPACE ONLY	16
17	SPACE ONLY	0.0	--	--	--	--	17	18	--	--	--	--	0.0	SPACE ONLY	18
19	SPACE	0.0	--	--	--	--	19	20	20	--	--	--	0.0	SPARE	20
21	SPACE	0.0	--	--	--	--	21	22	20	--	--	--	0.0	SPARE	22
23	SPACE	0.0	--	--	--	--	23	24	20	--	--	--	0.0	SPARE	24

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	1.02	125%	1.28
RECEPTACLE	0.00	100%/50%	0.00
MTRS/COOLS	0.00	80%	0.00
HEATS	0.00	100%	0.00
WATER HEATER	0.00	100%	0.00
EQUIPMENT	1.50	100%	1.50
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	50%	0.00
25% OF LARGEST HVAC/MOTOR	0.00		0.00
TOTAL DEMAND			2.78

100 A MINIMUM BUS SIZE
 MAIN LUGS ONLY
 18 K MINIMUM AIC RATING

100 A MINIMUM BUS SIZE
 40 A MAIN CIRCUIT BREAKER
 10 K MINIMUM AIC RATING

SURFACE MOUNTING
 NEMA 1 ENCLOSURE
 GROUND BAR

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
PHASE A1	0.8		0.8
PHASE B1	0.9		0.9
PHASE C1	0.8		0.8
TOTAL	2.5		2.5
DEMAND			3 AMP

PANEL EL		120/208V, 3 PHASE, 4 WIRE													
OCT	DESCRIPTION	KVA	C	G	W	CB	OCT	OCT	CB	W	G	C	KVA	DESCRIPTION	OCT
1	FACP	NOTE 2	0.5	1/2	12	12	20	1	2	--	--	--	0.0	SPACE ONLY	2
3	BDA	NOTE 2	0.5	1/2	12	12	20	3	4	--	--	--	0.0	SPACE ONLY	4
5	BDA	NOTE 2	0.5	1/2	12	12	20	5	6	--	--	--	0.0	SPACE ONLY	6
7	SPACE ONLY	0.0	--	--	--	--	7	8	--	--	--	--	0.0	SPACE ONLY	8
9	SPACE	0.0	--	--	--	--	9	10	20	--	--	--	0.0	SPARE	10
11	SPACE	0.0	--	--	--	--	11	12	20	--	--	--	0.0	SPARE	12

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	0.00	125%	0.00
RECEPTACLE	0.00	100%/50%	0.00
MTRS/COOLS	0.00	80%	0.00
HEATS	0.00	100%	0.00
WATER HEATER	0.00	100%	0.00
EQUIPMENT	1.50	100%	1.50
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	50%	0.00
25% OF LARGEST HVAC/MOTOR	0.00		0.00
TOTAL DEMAND			1.50

100 A MINIMUM BUS SIZE
 40 A MAIN CIRCUIT BREAKER
 10 K MINIMUM AIC RATING

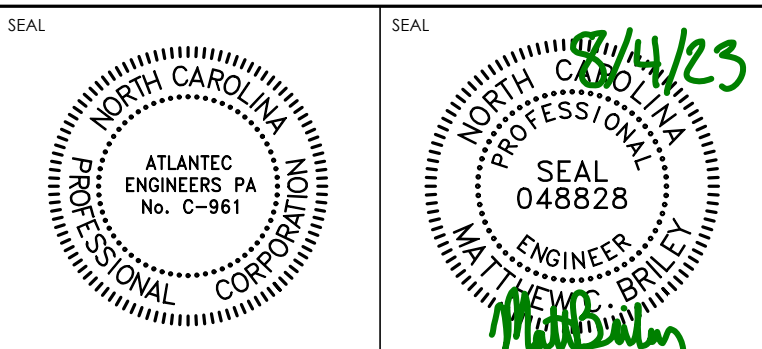
SURFACE MOUNTING
 NEMA 1 ENCLOSURE
 GROUND BAR

NOTES:
 1. SQUARE D: NQ
 2. E.C. TO PROVIDE LOCK-ON PROVISION

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
PHASE A1	0.5		0.5
PHASE B1	0.5		0.5
PHASE C1	0.5		0.5
TOTAL	1.5		1.5
DEMAND			4 AMP

PANEL SCHEDULES (A15)
 NOT TO SCALE

NO	REVISION	DATE
JKF ARCHITECTURE		
615 LYNDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1068		
STAR COMMUNICATIONS NEW OPERATIONS BUILDING CLINTON, NC		
DRAWING TITLE OPERATIONS BUILDING POWER RISER AND PANEL SCHEDULES		
SCALE SEE PLANS	DRAWING NO. 2E4.1	
DRAWN MCB		
CHECKED MCB		
DATE 07-15-2023		
PROJECT NO. 2022-17		



PANEL NH 277/480V, 3 PHASE, 4 WIRE

Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, OKT, CB, W, G, C, KVA, DESCRIPTION, OKT. Rows 1-42.

Summary table with columns: DESCRIPTION, CONNECTED KVA, DEMAND FACTOR, DEMAND KVA, NOTES. Includes CONT. LOAD, RECEPTACLE, MTRS/COOLS, HEATS, WATER HEATER, EQUIPMENT, KITCHEN EQUIP., SPECIAL EQ., 25% OF LARGEST HVAC/MOTOR, TOTAL DEMAND.

PANEL NL1 120/208V, 3 PHASE, 4 WIRE

Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, OKT, CB, W, G, C, KVA, DESCRIPTION, OKT. Rows 1-53.

Summary table with columns: DESCRIPTION, CONNECTED KVA, DEMAND FACTOR, DEMAND KVA, NOTES. Includes CONT. LOAD, RECEPTACLE, MTRS/COOLS, HEATS, WATER HEATER, EQUIPMENT, KITCHEN EQUIP., SPECIAL EQ., 25% OF LARGEST HVAC/MOTOR, TOTAL DEMAND.

PANEL NL2 120/208V, 3 PHASE, 4 WIRE

Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, OKT, CB, W, G, C, KVA, DESCRIPTION, OKT. Rows 1-30.

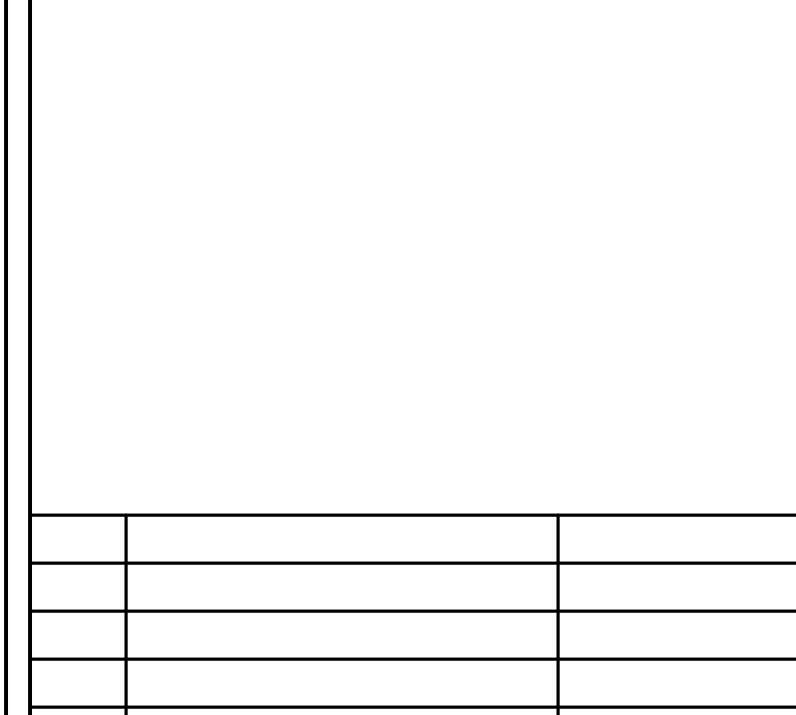
Summary table with columns: DESCRIPTION, CONNECTED KVA, DEMAND FACTOR, DEMAND KVA, NOTES. Includes CONT. LOAD, RECEPTACLE, MTRS/COOLS, HEATS, WATER HEATER, EQUIPMENT, KITCHEN EQUIP., SPECIAL EQ., 25% OF LARGEST HVAC/MOTOR, TOTAL DEMAND.

PANEL NP 120/208V, 3 PHASE, 4 WIRE

Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, OKT, CB, W, G, C, KVA, DESCRIPTION, OKT. Rows 1-42.

Summary table with columns: DESCRIPTION, CONNECTED KVA, DEMAND FACTOR, DEMAND KVA, NOTES. Includes CONT. LOAD, RECEPTACLE, MTRS/COOLS, HEATS, WATER HEATER, EQUIPMENT, KITCHEN EQUIP., SPECIAL EQ., 25% OF LARGEST HVAC/MOTOR, TOTAL DEMAND.

KEY PLAN



NO, REVISION, DATE table with empty cells for tracking changes.

J K F ARCHITECTURE

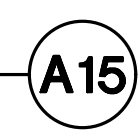
#15 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW OPERATIONS BUILDING CLINTON, NC

PANEL SCHEDULES

Table with columns: DRAWING TITLE, SCALE, SEE PLANS, DRAWING NO, DRAWN, CHECKED, DATE, PROJECT NO. Includes project number 2022-17.

PANEL SCHEDULES NOT TO SCALE



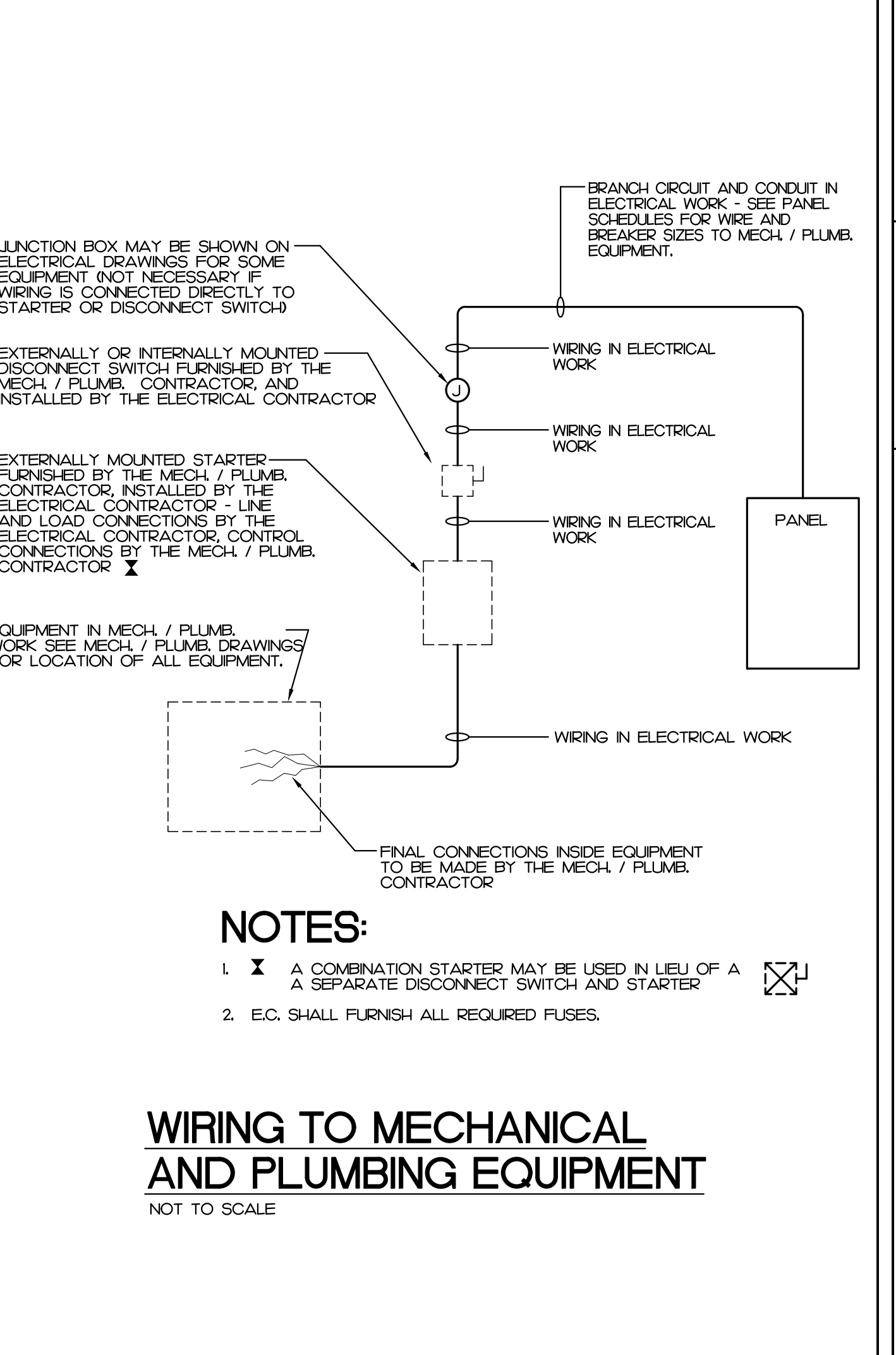
2E4.2

SYMBOL	DESCRIPTION	REMARKS
	2 X 4 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	HIGH BAY PENDANT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	SUSPENDED LINEAR STRIP FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	SURFACE/WALL MOUNT LINEAR STRIP FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	RECESSED CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR SUSPENDED PENDANT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXTERIOR WALL LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	POLE MOUNT FIXTURE WITH 1 LUMINAIRE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	POLE MOUNT FIXTURE WITH 2 LUMINAIRE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	SINGLE POLE TOGGLE SWITCH, MOUNT 42" AFF., UNLESS NOTED OTHERWISE.	HUBBELL I221-4 WITH NPJ COVER PLATE
	SMART SWITCH SINGLE FUNCTION MOUNT 42" AFF., UNLESS NOTED OTHERWISE.	TOUCHE+ SS-SF-WHT
	SMART SWITCH 2-BUTTON ON (RAISE) / OFF (LOWER) MOUNT 42" AFF., UNLESS NOTED OTHERWISE.	TOUCHE+ SS-2B-WHT
	OCCUPANCY SWITCH DUAL TECHNOLOGY MOUNT 42" AFF., UNLESS NOTED OTHERWISE.	TOUCHE+ SW-O-D-WHT-S2
	INTERVAL TIMER SWITCH, LINE VOLTAGE, 60 MINUTE MAXIMUM MOUNT 42" AFF., UNLESS NOTED OTHERWISE.	TOUCHE+ SWX-843-60M-XX
	COLOR MINI TOUCH-SCREEN WALL STATION MOUNT 42" AFF., UNLESS NOTED OTHERWISE.	TOUCHE+ WS-C-MINI
	OVER-HEAD DOOR CONTROL, E.C. TO PROVIDE CONTROL WIRING AS REQUIRED MOUNT 42" AFF., UNLESS NOTED OTHERWISE.	DEVICE BY OTHERS
	ROOM MANAGER - (2) 0-10V CHANNELS (2) BRANCH PORTS (2) SMART PORTS (2) DIGITAL INPUT PORTS (2) DIGITAL OUTPUT PORTS	TOUCHE+ RM
	SMART EMERGENCY SHUNT - DIMMING MODULE - 0-10V DIMMING	TOUCHE+ SES-D000
	SMART SENSOR DUAL TECHNOLOGY, LOW HEIGHT, FLUSH MOUNT	TOUCHE+ SMAOS-D-360-L-F-W
	SMART PACK	TOUCHE+ SP
	SMART TIME CLOCK WITH PHOTOCELL, FIELD COORDINATE PHOTOCELL & GPS ANTENNA LOCATION WITH ARCHITECT	TOUCHE+ STC-PC
	LIGHTING CONTROL SHUNT-TRIP DEVICE - UL924	MYERS+ EPC-A-2-D
	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE, MOUNT 16" AFF., UNLESS OTHERWISE NOTED.	HUBBELL HBL5362-TR NPJ6 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT GFCI RECEPTACLE, MOUNT 16" AFF., UNLESS OTHERWISE NOTED.	HUBBELL GFTRS120- NPJ26 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT, WEATHER RESISTANT AND GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER, MOUNT 16" AFF., UNLESS OTHERWISE NOTED.	HUBBELL GFTWR520- WP26M COVER PLATE
	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE, MOUNT 16" AFF., UNLESS OTHERWISE NOTED, FED FROM GFCI CIRCUIT BREAKER.	HUBBELL HBL5362-TR NPJ6 COVER PLATE
	SPECIFICATION GRADE QUAD TAMPER RESISTANT RECEPTACLE, MOUNT 16" AFF., UNLESS OTHERWISE NOTED.	HUBBELL Q HBL5362-TR NPJ82 COVER PLATE
	2 GANG ROUND RECESSED CONCRETE FLOOR BOX WITH FLAP COVER, 1 GANG WITH DUPLEX TAMPER RESISTANT RECEPTACLE, 1 GANG FOR COMMUNICATION OUTLETS BY OTHERS, 1 HUB FOR POWER, 1 1/2 HUB FOR DATA, PROVIDE COVER TO MATCH FLOOR TYPE PER ARCHITECT INSTRUCTION OUT AND PATCH FLOOR AS REQUIRED.	HUBBELL BOX+ SFBB COVER+ GFCI-C PLATES+ SEPDUOL REC+ 5362TR+
	CEILING PANEL CABINET FAN, FURNISHED AND INSTALLED BY M.C. WIRED BY E.C.	SEE MECH. PLAN
	JUNCTION BOX SIZED PER NEC.	
	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	SQUARE D HEAVY DUTY
	NEW CONCEALED WIRING	PER NEC.
	UNSWITCHED LIGHTING CONDUCTOR	PER NEC.
	HOME RUN TO PANEL BOARD, NUMBERS OF ARROW INDICATE CIRCUITS	PER NEC.
	120/208V 3 phase 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NQ/H-LINE
	277/480V 3 phase 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NFA/H-LINE
	DRY TYPE DISTRIBUTION TRANSFORMER, SEE POWER RISER	SQUARE D
	DUPLEX COMMUNICATION OUTLET - MOUNT 16" AFF., UNLESS OTHERWISE NOTED 2 - RJ45 WITH WHITE PLATE	2 - RJ45 WITH WHITE PLATE
	COMMUNICATION BACKBOARD: 48" x 96" x 3/4" THICK FIREPROOFED FLYBOARD MOUNTED TO WALL PROVIDE GROUND BAR AND CONNECT 1#6 AWG GROUND IN 1/2" CONDUIT TO PANEL.	
	CARD READER OUTLET - MOUNT 42" AFF., UNLESS OTHERWISE NOTED, E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, PROVIDE 18/6 LOW VOLTAGE CABLE FROM CARD READER OUTLET TO SECURITY RACK AND 18/2 LOW VOLTAGE CABLE FROM CORRESPONDING DOOR HINGE TO SECURITY RACK IN DATA 105, TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	ALARM CARD READER - MOUNT 42" AFF., UNLESS OTHERWISE NOTED, E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, PROVIDE 18/6 LOW VOLTAGE CABLE FROM ALARM CARD READER TO SECURITY RACK IN DATA 105, TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	CCTV CAMERA OUTLET - FIELD COORDINATE INSTALLATION WITH OWNER, E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, PROVIDE 18/2 LOW VOLTAGE CABLE FROM DOOR CONTACT TO SECURITY RACK IN DATA 105, TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	WIRELESS ACCESS POINT - PROVIDED AND INSTALLED BY OWNER AT CEILING, E.C. TO PROVIDE (2) CAT6 CABLES WITH RJ45 CONNECTORS FROM ACCESS POINT TO PATCH PANEL IN DATA 105, TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	MOTION DETECTOR, FIELD COORDINATE MOUNTING HEIGHT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN, E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, PROVIDE 18/2 LOW VOLTAGE CABLE FROM MOTION SENSOR TO SECURITY RACK IN DATA 105, TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	PAGING SPEAKER, CEILING MOUNTED, PROVIDED AND INSTALLED BY OWNER, E.C. TO PROVIDE (1) CAT6 CABLE FROM PAGING SPEAKER TO PATCH PANEL IN DATA 105, TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	DOOR CONTACTS - PROVIDED AND INSTALLED BY OWNER AT DOOR FRAME, E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, PROVIDE 18/2 LOW VOLTAGE CABLE FROM DOOR CONTACT TO SECURITY RACK IN DATA 105, TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	LEVEL 2 EV CHARGER - BOLLARD TYPE, E.C. TO PROVIDE MOUNTING KIT AS REQUIRED, INSTALL PER MANUFACTURER, PROVIDE BOLLARDS PER 208 NFCC SECTION 312 AS REQUIRED.	CHARGEPOINT+ CT40I-GW

SYMBOL	DESCRIPTION	REMARKS
A.F.C.	ABOVE FINISHED CEILING	
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
B.F.F.	BELOW FINISHED FLOOR	
B.F.G.	BELOW FINISHED GRADE	

NOTE:
E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCHES, RECEPTACLES, AND WALL PLATES TO ARCHITECT PRIOR TO PURCHASING ANY.

- ### GENERAL NOTES
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
 - USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
 - ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
 - ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
 - EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS.
 - PENETRATION:**
 - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
 - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER, SUBMIT DETAIL OF PROPOSED SEALING METHODS.
 - ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
 - ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
 - THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
 - AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
 - THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES, ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
 - ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THIN-WALL WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THIN-WALL WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
 - MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
 - ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECT TO THE FOLLOWING RESTRICTIONS:
 - SEE NEC 320 AND 330 FOR RESTRICTIONS.
 - PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION METHODS.
 - CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
 - CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FURRED AREAS, MAX. LENGTH OF EACH SECTION IN ACCESSIBLE CONCEALED CEILING SPACES SHALL NOT EXCEED 10 FT.
 - WHERE REQUIRED BY NEC 517.3, CABLE SHALL BE LISTED FOR THE USE.
 - THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
 - WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
 - ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
 - ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
 - BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL - WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
 - FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI A17.1 SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGH-IN.
 - ELECTRICAL IDENTIFICATION**
 - FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCH-BOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION.
 - FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.
 - THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.
 - THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF HIS TELECOM CONDUIT STUB OUTS WITH THE LOCAL SERVICE PROVIDER PRIOR TO HIS INSTALLING ANY CONDUITS.
 - UNDERGROUND RACEWAY:**
 - RACEWAYS RUN EXTERNAL TO BUILDING FOUNDATION WALLS, WITH THE EXCEPTION OF BRANCH CIRCUIT RACEWAYS, SHALL BE ENCASED WITH A MINIMUM OF THREE (3) INCHES OF CONCRETE ON ALL SIDES.
 - ENCASED RACEWAYS MUST HAVE A MINIMUM COVER OF EIGHTEEN (18) INCHES, EXCEPT FOR RACEWAY CONTAINING CIRCUITS WITH VOLTAGES ABOVE 600V, WHICH MUST HAVE A MINIMUM COVER OF THIRTY (30) INCHES.
 - ENCASED RACEWAYS SHALL BE OF A TYPE APPROVED BY THE NEC AS "SUITABLE FOR CONCRETE ENCASEMENT".
 - BRANCH CIRCUIT RACEWAYS RUN UNDERGROUND EXTERNAL TO BUILDING FOUNDATION WALLS SHALL BE RUN IN RACEWAYS INSTALLED IN ACCORDANCE WITH THE NEC, AND SHALL BE OF A TYPE APPROVED BY THE NEC AS "SUITABLE FOR DIRECT BURIAL." MINIMUM RACEWAY SIZE SHALL BE 1".
 - ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE RACEWAY AT 6 TO 8 INCHES BELOW FINISHED GRADE. TAPE SHALL BE PERMANENT, BRIGHT-COLORED, CONTINUOUS PRINTED PLASTIC TAPE COMPOUNDED FOR DIRECT BURIAL NOT LESS THAN 6 INCHES WIDE AND 4 MILS THICK. PRINTED LEGEND SHALL BE INDICATIVE OF GENERAL TYPE UNDERGROUND LINE BELOW.
 - RACEWAYS RUN UNDERGROUND INTERNAL TO BUILDING FOUNDATION WALLS SHALL BE OF A TYPE AND INSTALLED BY A METHOD APPROVED BY THE NEC.
 - WHERE UNDERGROUND RACEWAYS ARE REQUIRED TO TURN UP INTO CABINETS, EQUIPMENT, ETC., AND ON TO POLES, THE ELBOW REQUIRED AND THE STUB-UP OUT OF THE SLAB OR FLOOR SHALL BE OF RIGID STEEL.
 - THE RACEWAY SYSTEM SHALL NOT BE RELIED ON FOR GROUNDING CONTINUITY.
 - WHERE PASSING THROUGH A "BELOW GRADE" WALL FROM A CONDITIONED INTERIOR BUILDING SPACE, RACEWAYS SHALL BE SEALED UTILIZING FITTINGS SIMILAR AND EQUAL TO OZ/SEDNET TYPE "FSA" THROUGH-WALL FITTING WITH "FSA" MEMBRANE CLAMP ADAPTER IF REQUIRED.
 - SEE SPECIFICATIONS FOR ADDITIONAL DETAIL.



2018 NORTH CAROLINA ENERGY CODE

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE: PRESCRIPTIVE

LAMP TYPE REQUIRED:	LIGHTING SCHEDULE:			
	FLUORESCENT T8/T5	LED	CFL	INCAN
NUMBER OF LAMPS:	N/A	SEE	N/A	N/A
BALLAST TYPE USED:	N/A	FIXTURE	N/A	N/A
NUMBER OF BALLASTS:	N/A	SCHEDULE	N/A	N/A
TOTAL WATTAGE PER FIXTURE:	N/A		N/A	N/A

	SPECIFIED	ALLOWED BY CODE
INTERIOR WATTAGE		6560
OFFICE		6560
TOTAL	4666	5904 **
EXTERIOR WATTAGE ZONE 3		750
ALLOWANCE		750
TRADABLE		3821
NONTRADABLE		0
TOTAL	1736	4571

NOTES:

- ** PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE 10% LOWER THAN THOSE CALCULATED PER SECTION C403.4.2.
 - VALUE CALCULATE PER SECTION C405.4.2: 6560 WATTS
 - VALUE PER SECTION C406.3: 5904 WATTS
- ALL EXTERIOR LIGHTS:
 - CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED: _____
NAME: MATTHEW C. BRILEY, P.E.
TITLE: ENGINEER

ATLANTEC ENGINEERS, PA 2294
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-1818
1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-9336

KEY PLAN

NO	REVISION	DATE

J K F

ARCHITECTURE

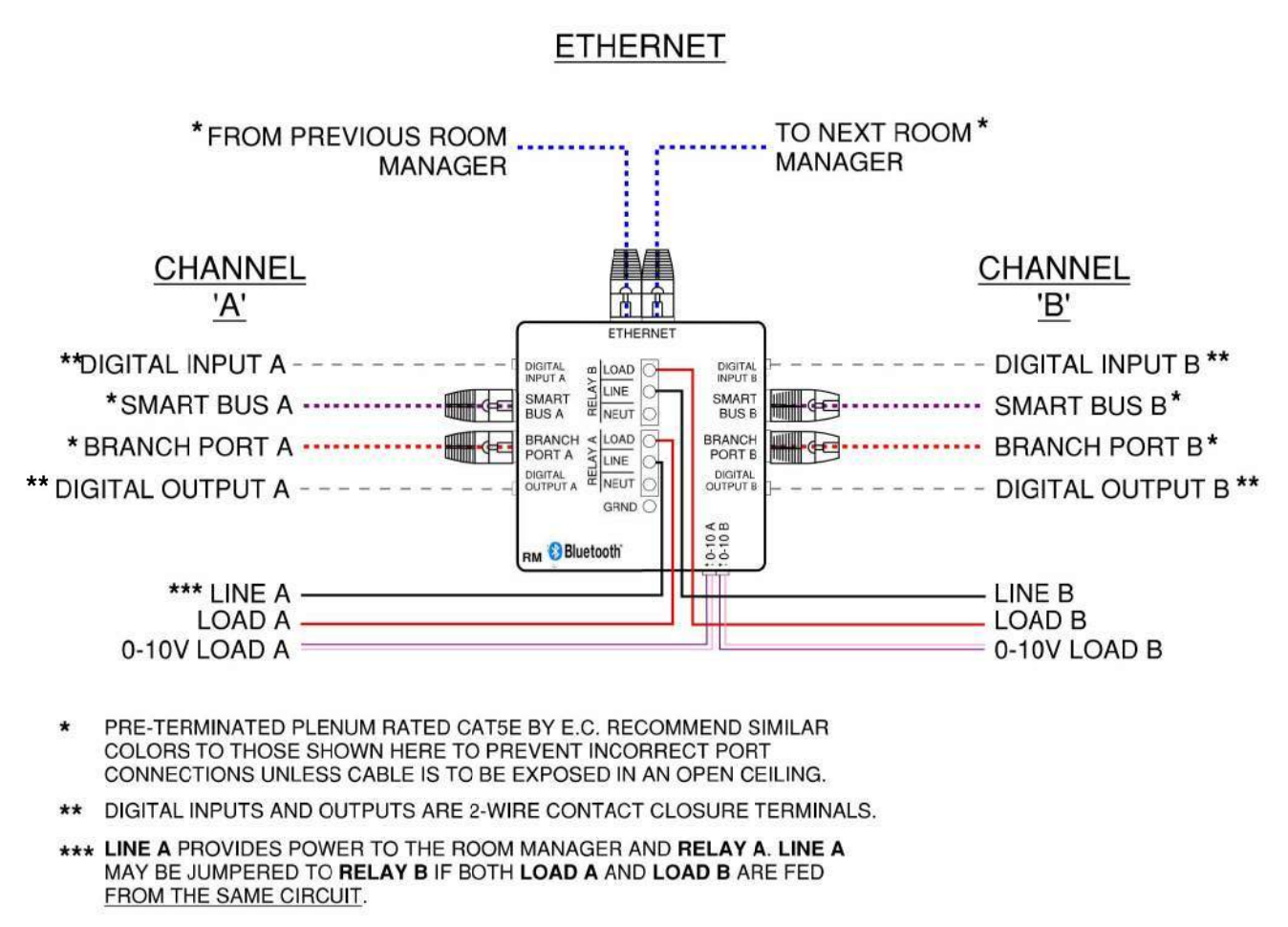
615 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

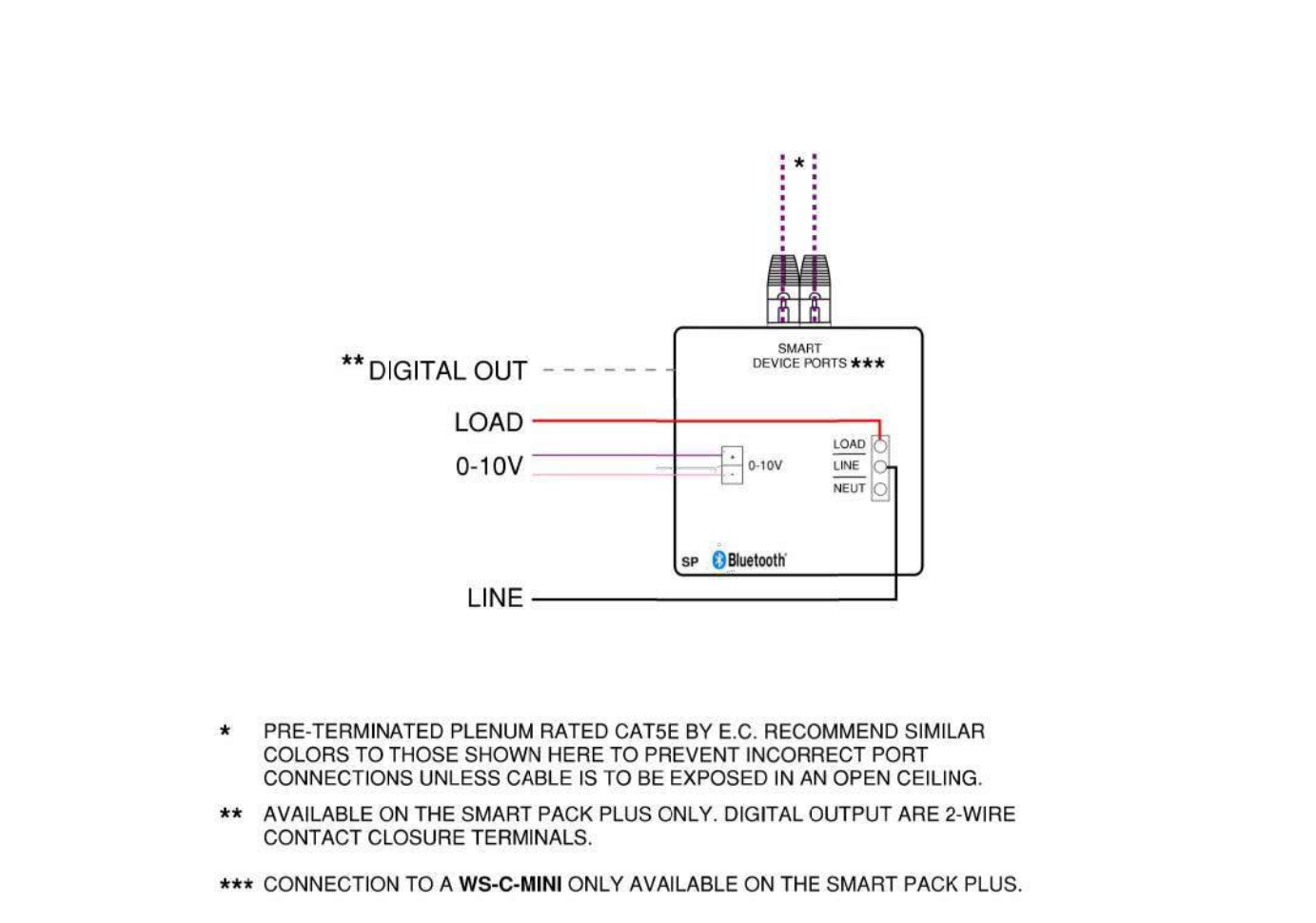
DRAWING TITLE: **OPERATIONS BUILDING LEGEND, NOTES, DETAILS, AND FIXTURE SCHEDULE**

SCALE: SEE PLANS	DRAWING NO:
DRAWN: MCB	2E5.1
CHECKED: MCB	
DATE: 07-15-2023	
PROJECT NO.: 2022-17	

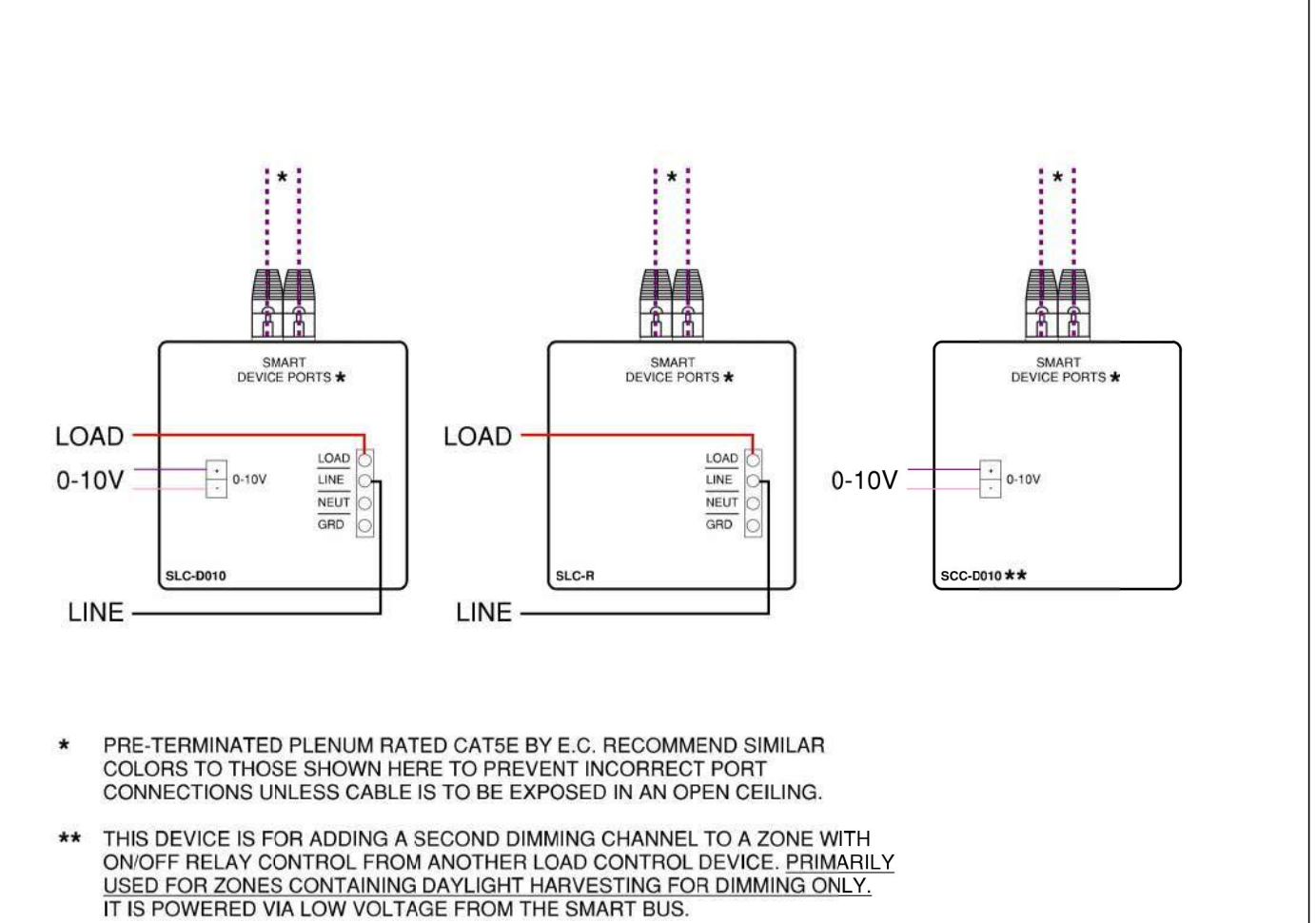
COPYRIGHT: JKF ARCHITECTURE PC, JOHN K. FARKAS, AIA



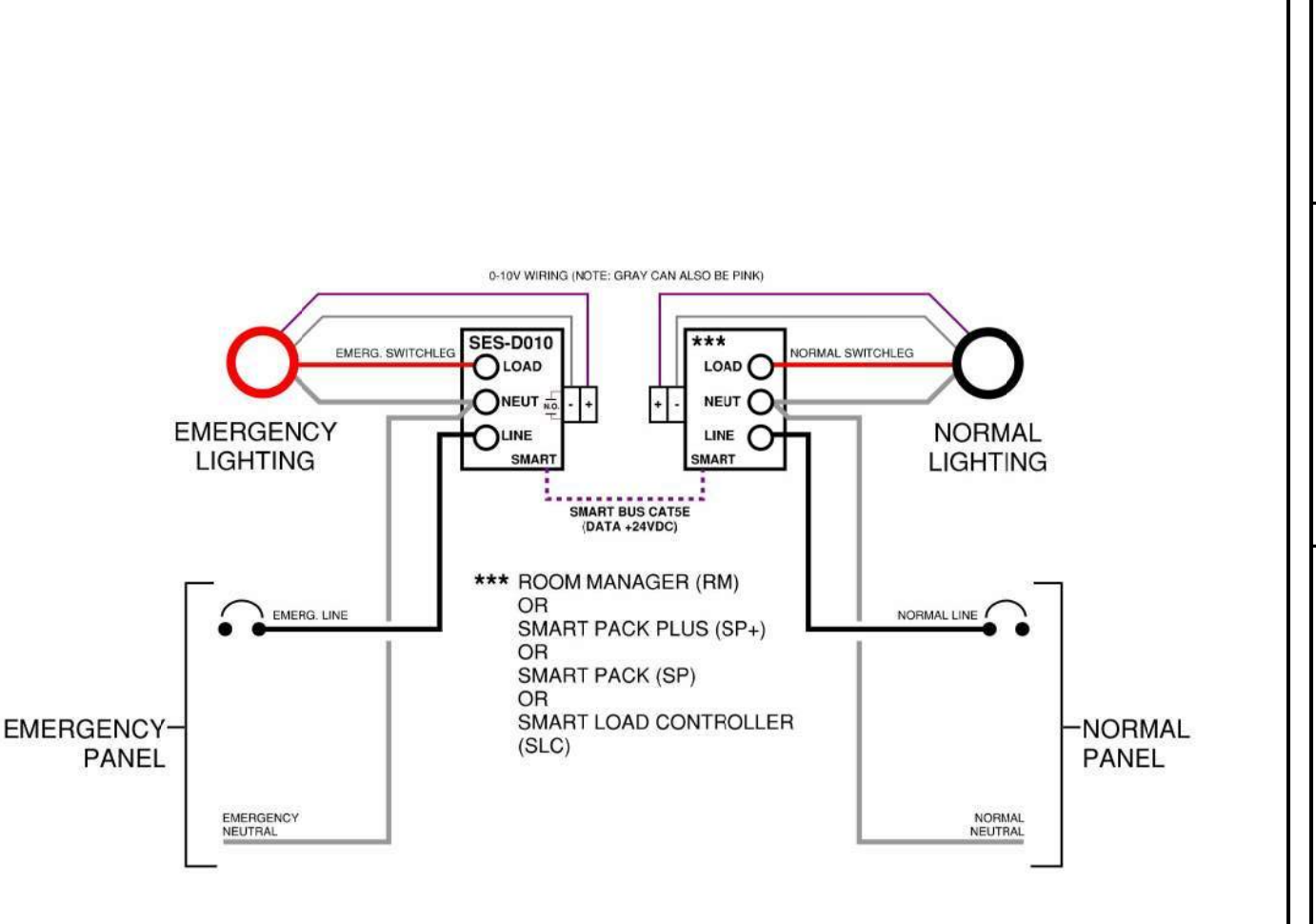
ROOM MANAGER WIRING DETAIL (J4)
NOT TO SCALE



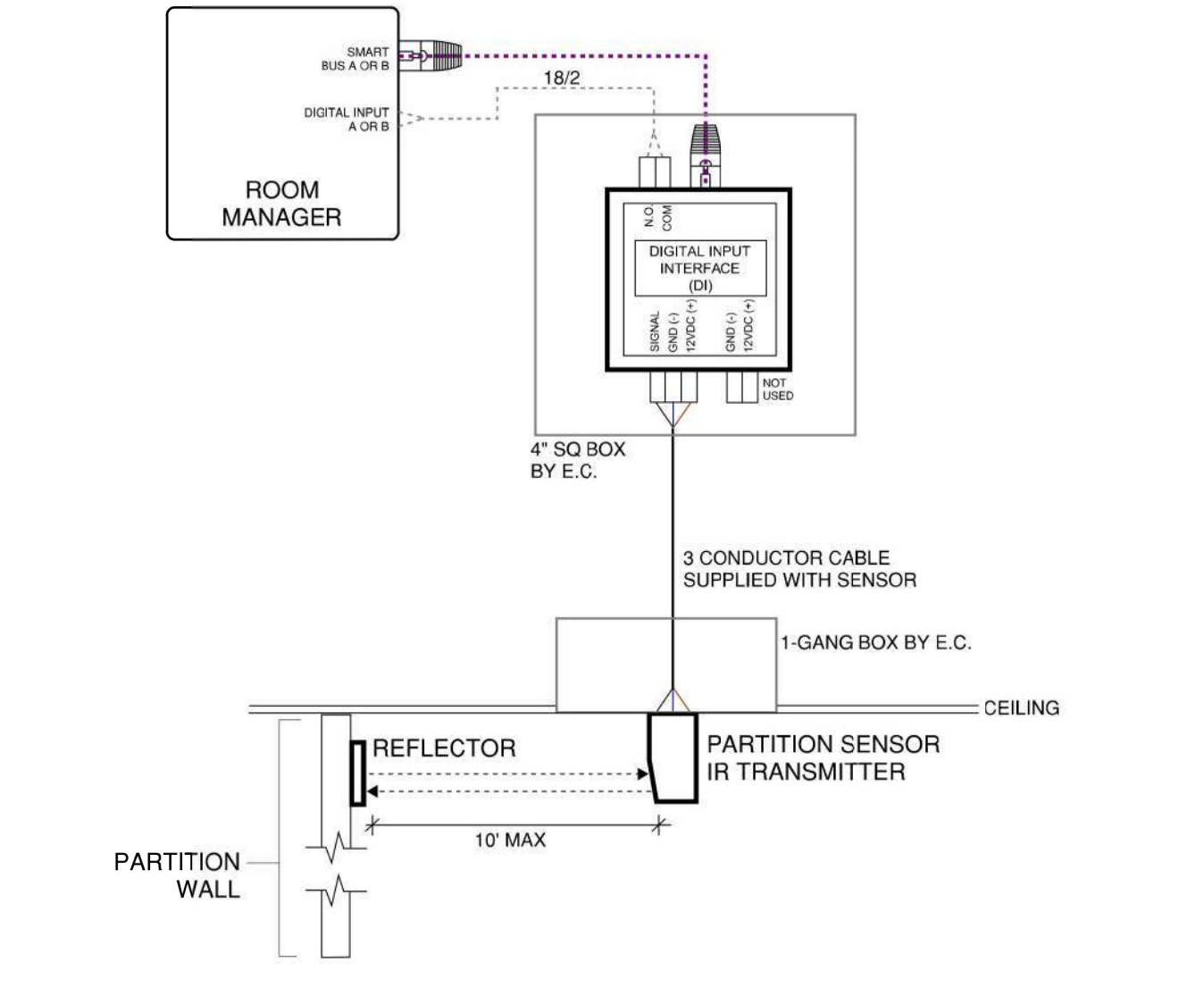
SMART PACK (PLUS) WIRING DETAIL (J8)
NOT TO SCALE



SMART LOAD CONTROLLER EXPANSION MODULE WIRING DETAIL (J12)
NOT TO SCALE



EMERGENCY SHUNT WIRING DETAIL (J15)
NOT TO SCALE



PARTITION SENSOR WIRING DETAIL (E4)
NOT TO SCALE

LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
AI	2x2 LAY-IN LED TROFFER 3000 LUMEN	ORACLE: 22-0D-LED-3000L-DIMO-MVOLT-35K-85 OR EQUAL BY CORONET OR VISCOR	3000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 44 WATTS - 48 VA, 120-277V	
BIA	8' LINEAR SUSPENDED LED FIXTURE DIRECT/INDIRECT 8400 LUMEN	LITECONTROL: SAE104-P-LPA-8'-8-SOF-CH-35K-105-2D -DOI-C-LNV-FAI OR EQUAL BY LUX OR MARK	8400 LUMEN LED, 3500K 0-10V DIMMING DRIVER 74 WATTS - 83 VA, 120-277V	
CI	6' LED CAN LIGHT 1200 LUMEN	ELITE: H46-LED-1200L-DIMO-MVOLT-35K-MD 90-H46-650I-CL-WH OR EQUAL BY LITHONIA OR GOTHAM	1200 LUMEN LED, 3500K 0-10V DIMMING DRIVER 10 WATTS - 11 VA, 120-277V	
FI	4' LINEAR WALL MOUNT LED FIXTURE 2200 LUMEN	VISA: CV176-L35K10-MVOLT OR EQUAL BY CORONET OR VISCOR	2200 LUMEN LED, 3500K 0-10V DIMMING DRIVER 32 WATTS - 36 VA, 120-277V	
HI	HIGH BAY LED PENDANT 5000 LUMEN	ORION: H4UF4-E-LNV-FD-835 OR EQUAL BY LITHONIA OR HUEBELL	5000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 101 WATTS - 112 VA, 120-277V	MOUNT BOTTOM OF FIXTURE AT 20' AFF. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
UI	4' SURFACE MOUNT LED STRIP LIGHT 4000 LUMEN	ORACLE: 4-0C4-LED-4000L-DIMO-MVOLT-35K-85-WH OR EQUAL BY LITHONIA OR HUEBELL	4000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 36 WATTS - 40 VA, 120-277V	
U2	8' SURFACE MOUNT LED STRIP LIGHT 6000 LUMEN	ORACLE: SEE NOTES 4-0C4-LED-3000L-DIMO-MVOLT-35K-85-WH-CRM OR EQUAL BY LITHONIA OR HUEBELL	6000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 56 WATTS - 62 VA, 120-277V	PROVIDE 2 OF THE SPECIFIED FIXTURES CONTINUOUSLY MOUNTED TO CREATE OVERALL LENGTH IN DESCRIPTION.
U3	4' SUSPENDED LED STRIP LIGHT 5000 LUMEN	ORACLE: 4-0C4-LED-5000L-DIMO-MVOLT-35K-85 OR EQUAL BY LITHONIA OR HUEBELL	5000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 45 WATTS - 50 VA, 120-277V	PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
SI	SINGLE AREA POLE LIGHT TYPE 3 NARROW DISTRIBUTION 7000 LUMEN	SELLIX: AV6-R2N-LI-O-L105-30-30-UNV-DM-1LR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	7000 LUMEN LED, 3000K ELECTRONIC DRIVER 72 WATTS - 80 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED. INSTALL FIXTURE AT 24' A.F.G.
S4	SINGLE AREA POLE LIGHT TYPE 3 NARROW DISTRIBUTION 9500 LUMEN	SELLIX: AV6-R2N-LI-O-L105-30-30-UNV-DM-1LR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	9500 LUMEN LED, 3000K ELECTRONIC DRIVER 106 WATTS - 120 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED. INSTALL FIXTURE AT 24' A.F.G.
S5	DOUBLE AREA POLE LIGHT TYPE 5 DISTRIBUTION 19000 LUMEN	SELLIX: (2) AV6-R5-L2-O-L105-30-30-UNV-DM-1LR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	19000 LUMEN LED, 3000K ELECTRONIC DRIVER 26 WATTS - 240 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED. INSTALL FIXTURE AT 24' A.F.G.
WI	EXTERIOR WALL PACK 2500 LUMEN	BEACON: TRP1-24L-25-3K8-4W-LNV OR EQUAL BY LITHONIA OR HUEBELL	2500 LUMEN LED, 3000K 0-10V DIMMING DRIVER 25 WATTS - 28 VA, 120-277V	
EX	EXIT LIGHT - 1 SIDED GREEN ON CLEAR AC ONLY	LITHONIA: EDGR-H-G OR EQUAL BY DUAL-LITE OR ISOLITE	5 WATTS - 5 VA, 120-277V	ADJUST PART NUMBER AS REQUIRED TO PROVIDE REQUIRED MOUNTINGS.

NOTES:
 1. SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
 2. E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE. FINISH COLOR/TRIM SUBJECT TO CHANGE PER ARCHITECT.
 3. FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.
 4. EQUAL FIXTURES ARE ACCEPTABLE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND ENGINEER.

BRANCH DEVICES		SMART DEVICES	
SYM	PART #	SYM	PART #
WS-TS-C	4" COLOR TOUCH STATION	SMAOS-LF	LOW FLUSH
WS-C-MINI	MINI COLOR TOUCH STATION (BRANCH)	SMAOS-LS	LOW SURFACE
		SMAOS-HF	HIGH FLUSH
		SMAOS-HS	HIGH SURFACE
RM	ROOM MANAGER	SS-2B	2-BUTTON DIMMER
SP+	SMART PACK PLUS	SS-SF	SINGLE FUNCTION
SP	SMART PACK	WS-C-MINI	MINI COLOR TOUCH STATION (SMART)
		SLC-R	SMART LOAD CONTROL - RELAY
		SLC-D010	SMART LOAD CONTROL - 0-10V
		SCC-D010	SMART CHANNEL CONTROL - 0-10V
		SES-R	SMART EMERGENCY SHUNT - RELAY
		SES-D010	SMART EMERGENCY SHUNT - 0-10V

DEVICE CONNECTIONS	PORT	# PORTS	MAX DEVICES CONNECTED	MAX CABLE LENGTH
RM TO RM	ETHERNET	2	UNLIMITED	320' DEVICE TO DEVICE
RM TO SLC-XX/SCC/SES/	SMART	2	14 TOTAL PER RM	500' TOTAL LENGTH
RM TO SP/SP+	N/A	N/A	NOT ALLOWED	NOT ALLOWED
RM TO ANY SMART DEVICE	SMART	2	10 PER PORT	500' TOTAL LENGTH
RM TO BRANCH DEVICE	BRANCH	2	8 PER PORT	1000' TOTAL LENGTH
SP/SP+ TO SLC-XX/SCC/SES	SMART	N/A	4 TOTAL PER SP+	500' TOTAL LENGTH
SP/SP+ TO ANY SMART DEVICE	SMART	2	10 PER PORT	500' TOTAL LENGTH
SP/SP+ TO SP/SP+	N/A	N/A	NOT ALLOWED	NOT ALLOWED
SLC-XX/SCC/SES/ TO ANY SMART DEVICE	SMART	2	10 PER PORT	500' TOTAL LENGTH

NOTE: ALL ETHERNET/SMART/BRANCH DEVICE TO DEVICE CONNECTIONS SHALL BE DAISY-CHAINED. NO OTHER CABLE TOPOLOGY IS ALLOWED.

CONNECTIVITY MATRIX

CONNECTIVITY MATRIX (A8)
NOT TO SCALE

ATLANTEC ENGINEERS, PA
 2294
 3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336

Professional Engineer Seal for North Carolina, No. C-981, dated 8/14/23.

KEY PLAN

NO	REVISION	DATE

J K F
ARCHITECTURE

615 LYNDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW OPERATIONS BUILDING
CLINTON, NC

OPERATIONS BUILDING LIGHTING DETAILS

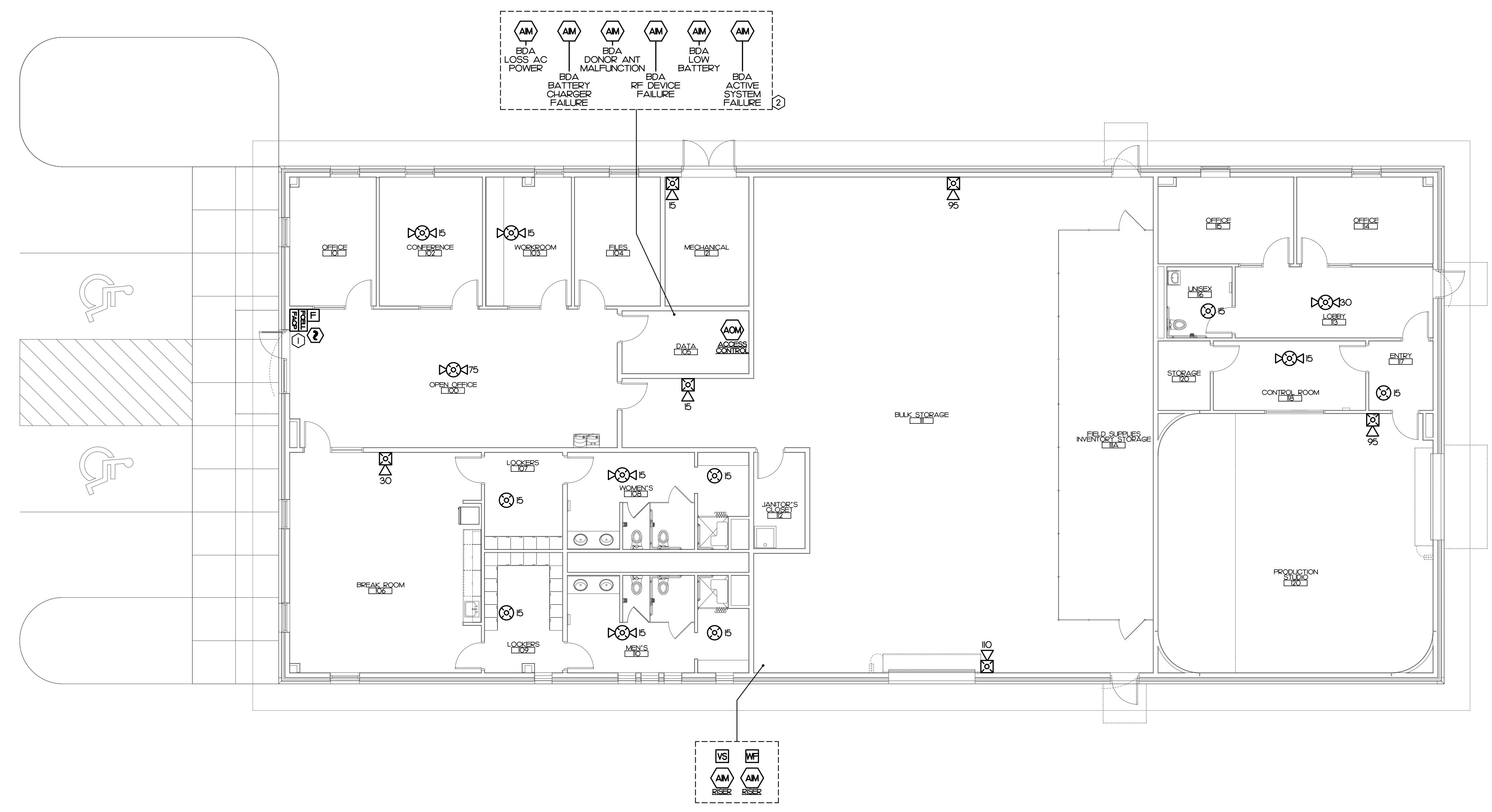
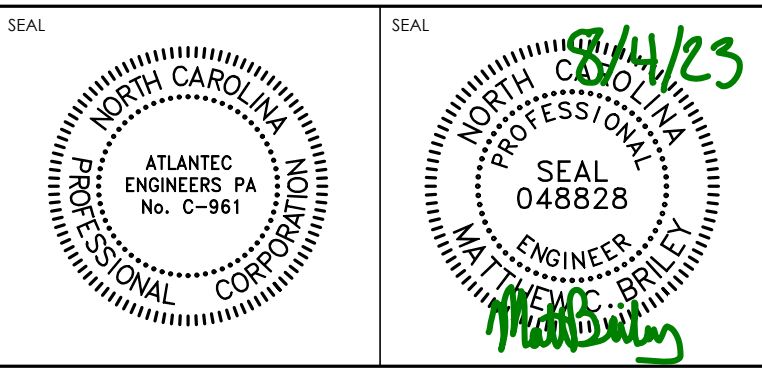
SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	2E5.2
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

M
L
K
J
H
G
F
E
D
C
B
A

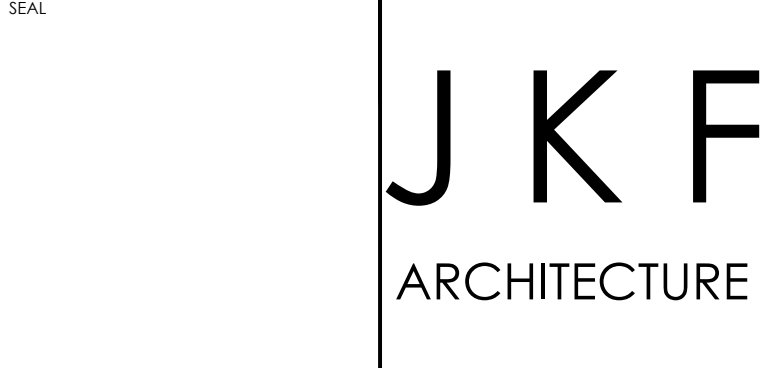
KEY NOTES
 ① INSTALL FACP AND FCELL FLUSH MOUNTED IN WALL. FIELD COORDINATE INSTALLATION WITH ARCHITECT AND LOCAL FIRE MARSHAL PRIOR TO ROUGH-IN.
 ② INSTALL IF REQUIRED. SEE A8/2FA2.2 FOR DETAILS.

ATLANTEC ENGINEERS, PA
 222 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336



KEY PLAN

NO	REVISION	DATE



625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

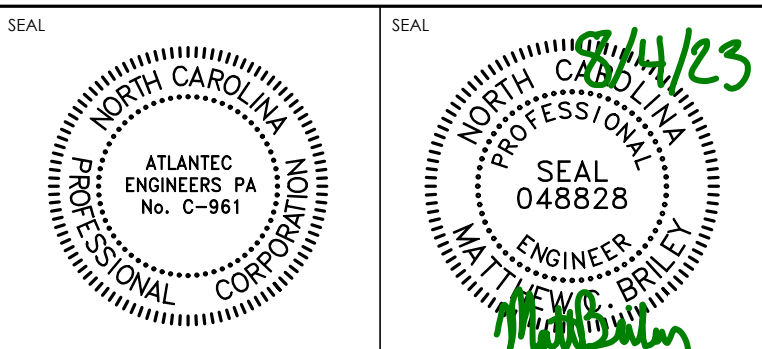
STAR COMMUNICATIONS NEW OPERATIONS BUILDING CLINTON, NC

DRAWING TITLE
 OPERATIONS BUILDING FIRE ALARM PLAN

SCALE SEE PLANS	DRAWING NO. 2FA1.1
DRAWN MCB	2FA1.1
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

MAINTENANCE BUILDING FIRE ALARM PLAN (A15)
 SCALE: 1/8" = 1'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

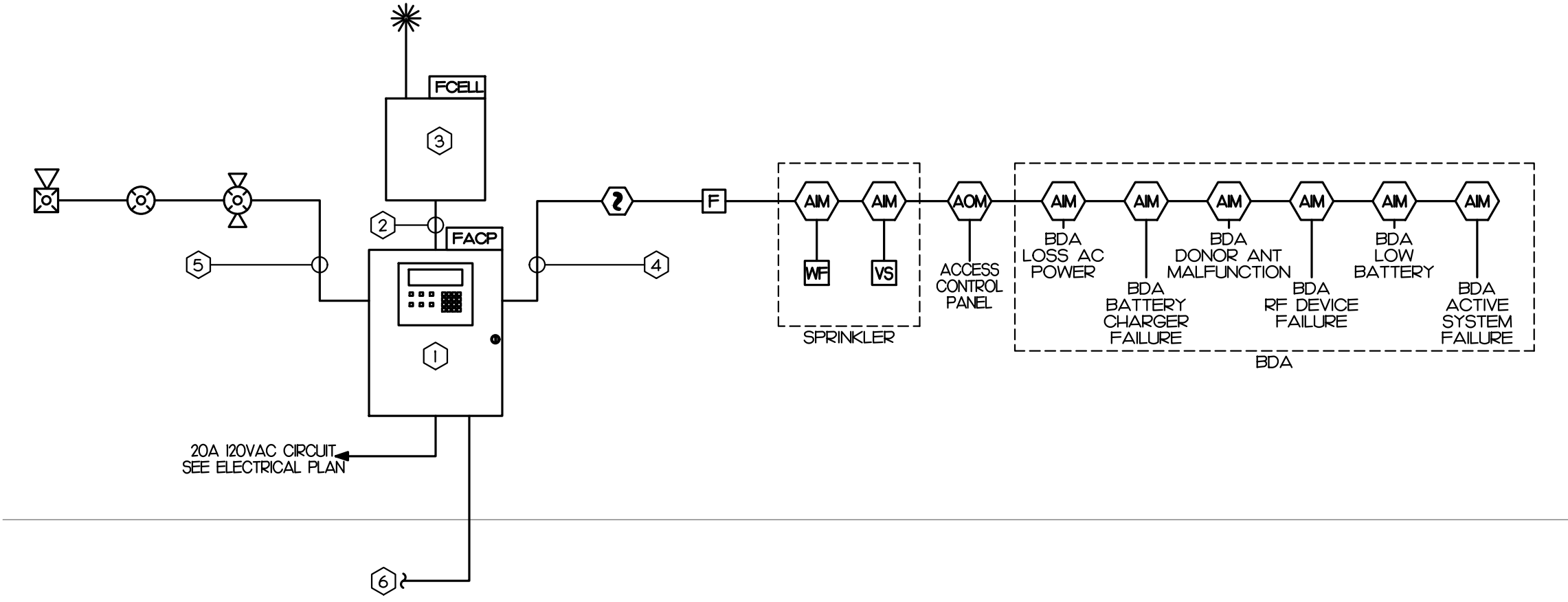


SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
(S)	SMOKE DETECTOR, PHOTOELECTRIC ADDRESSABLE.	FIRELITE EST GAMEWELL, SIMPLEX
(F)	FIRE ALARM PULL STATION MOUNT 42" AFF. ADDRESSABLE.	FIRELITE EST GAMEWELL, SIMPLEX
(S) <XX>	FIRE ALARM STROBE/HORN MOUNT 80" AFF. 75 dBA SOUND LEVEL. 'XX' INDICATES CANDELA RATING.	FIRELITE EST GAMEWELL, SIMPLEX
(S) <XX>	FIRE ALARM CEILING STROBE/HORN MOUNT 80" AFF. 75 dBA SOUND LEVEL. 'XX' INDICATES CANDELA RATING.	FIRELITE EST GAMEWELL, SIMPLEX
(S) <XX>	FIRE ALARM CEILING STROBE. 'XX' INDICATES CANDELA RATING.	FIRELITE EST GAMEWELL, SIMPLEX
(FACP)	FIRE ALARM CONTROL PANEL, FLUSH MOUNTED, ADDRESSABLE.	FIRELITE EST GAMEWELL, SIMPLEX
(FCCELL)	FIRE ALARM CELLULAR COMMUNICATOR WITH BATTERY BACKUP 2 PATH COMMUNICATIONS CELLULAR AND P (INTERNET) FLUSH MOUNTED.	HONEYWELL: HWF2--COM OR EQUAL
(BDA)	BI-DIRECTIONAL ANTENNA SYSTEM SURFACE MOUNTED. PROVIDE INSTALLATION IF REQUIRED. SEE A6/2FA22 FOR DETAILS.	HONEYWELL OR EQUAL
(AOM)	RELAY CONTROL MODULE ADDRESSABLE.	FIRELITE EST GAMEWELL, SIMPLEX
(AM)	MONITOR MODULE ADDRESSABLE.	FIRELITE EST GAMEWELL, SIMPLEX
(WF)	FIRE SPRINKLER WATER FLOW SWITCH.	BY SPRINKLER CONTRACTOR.
(VS)	FIRE SPRINKLER VALVE SUPERVISORY SWITCH (TAMPER SWITCH).	BY SPRINKLER CONTRACTOR.

FIRE ALARM NOTES

- SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.11 AND 907.12 TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY LOCAL FIRE MARSHAL'S OFFICE.
- PLACARD THE ENTIRE FIRE ALARM SYSTEM PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE FIRE ALARM CONTROL PANEL.
- CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH FIRE ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL.
- ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND CUT SHEETS FOR FIRE ALARM SYSTEM TO ENGINEER FOR APPROVAL.
- ALL WIRING SHALL BE SUPERVISED.
- ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- ALL WIRING IN WALLS OR FLURRED SPACES SHALL BE IN CONDUIT.
- WHERE PERMITTED BY CODE, WIRING ABOVE ACCESSIBLE CEILINGS MAY BE RUN EXPOSED AND THE FOLLOWING REQUIREMENTS SHALL BE MET:
 - WIRING SHALL BE PLENUM RATED WHERE APPLICABLE.
 - PROVIDE BRIDLE RINGS FOR INDEPENDENT FIRE ALARM CABLE SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE. ANALOG LOOP WIRING INCOMING AND OUTGOING SHALL NOT BE SUPPORTED IN THE SAME BRIDLE RING.
- ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
 - WIRING SHALL BE 'CLASS B'.
 - MINIMUM CAPACITY OF ANALOG SENSORS PER LOOP SHALL BE 48.
 - MINIMUM CAPACITY OF ADDRESSABLE MONITORING DEVICES PER LOOP SHALL BE 48.
 - MINIMUM CAPACITY OF ADDRESSABLE CONTROL RELAY MODULES PER LOOP SHALL BE 48.
- NOTIFICATION CIRCUIT REQUIREMENTS:
 - WIRING SHALL BE 'CLASS B'.
 - PROVIDE WITH 'SYNC MODULE' AS REQUIRED PER NFPA 72.
 - FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
- NOTIFICATION APPLIANCE RATINGS:
 - PROVIDE SOUND (dB) AND CANDELA (Cd) RATINGS FOR ALL HORN/STROBE DEVICES PER NFPA 72. ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72, 18.5.5.7 AND 18.5.6.
 - A DECIBEL LEVEL OF (5 dB ABOVE AMBIENT ON NFPA 72, TABLE A1.8.4.3) SHALL BE MAINTAINED IN ALL GENERAL AREAS AND 100 dB (5 dB ABOVE AN AMBIENT OF 85 dB IN NFPA 72, 18.4.3.1) SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER NFPA 72 AND THE 2018 NORTH CAROLINA STATE BUILDING CODE (SECTION 907.6.2).
 - WHERE FIRE ALARM SYSTEM IS WITH VOICE EVACUATION SYSTEM PER NFPA 18.4.15 VOICE MESSAGES SHALL NOT BE REQUIRED TO MEET THE AUDIBILITY REQUIREMENTS OF 18.4.3, BUT SHALL MEET THE INTELLIGIBILITY REQUIREMENTS OF 18.4.10 WHERE VOICE INTELLIGIBILITY IS REQUIRED.
- DIGITAL ALARM COMMUNICATOR:
 - FIRE ALARM SYSTEM SHALL BE WITH DIGITAL ALARM COMMUNICATOR (DACT).
 - OPTION DACT SHALL HAVE CAPABILITY TO HANDLE 2 PHONE LINES.
 - OPTION WHERE SINGLE COMMUNICATION PATH WITH CELLULAR NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NFPA 72 26.6.3.15.
 - OPTION WHERE SINGLE COMMUNICATION PATH WITH INTERNET NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NFPA 72 26.6.3.15.
 - WHERE DUAL COMMUNICATION PATHS OF CELLULAR NETWORK AND INTERNET NETWORK ARE REQUIRED BY THE LOCAL FIRE MARSHAL, PROVIDE WITH COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE.
 - FIELD COORDINATE TYPE MATCH MONITORING COMPANY.
- FOR SPRINKLER SYSTEM:
 - FIELD COORDINATE QUANTITY AND LOCATION OF FLOW AND TAMPER SWITCHES WITH SPRINKLER'S FINAL DRAWINGS AND/OR CIVIL FINAL DRAWING FOR TAMPER SWITCH FOR PIV VALVE.
 - PROVIDE MONITORING MODULES AS REQUIRED FOR SPRINKLER SYSTEM.

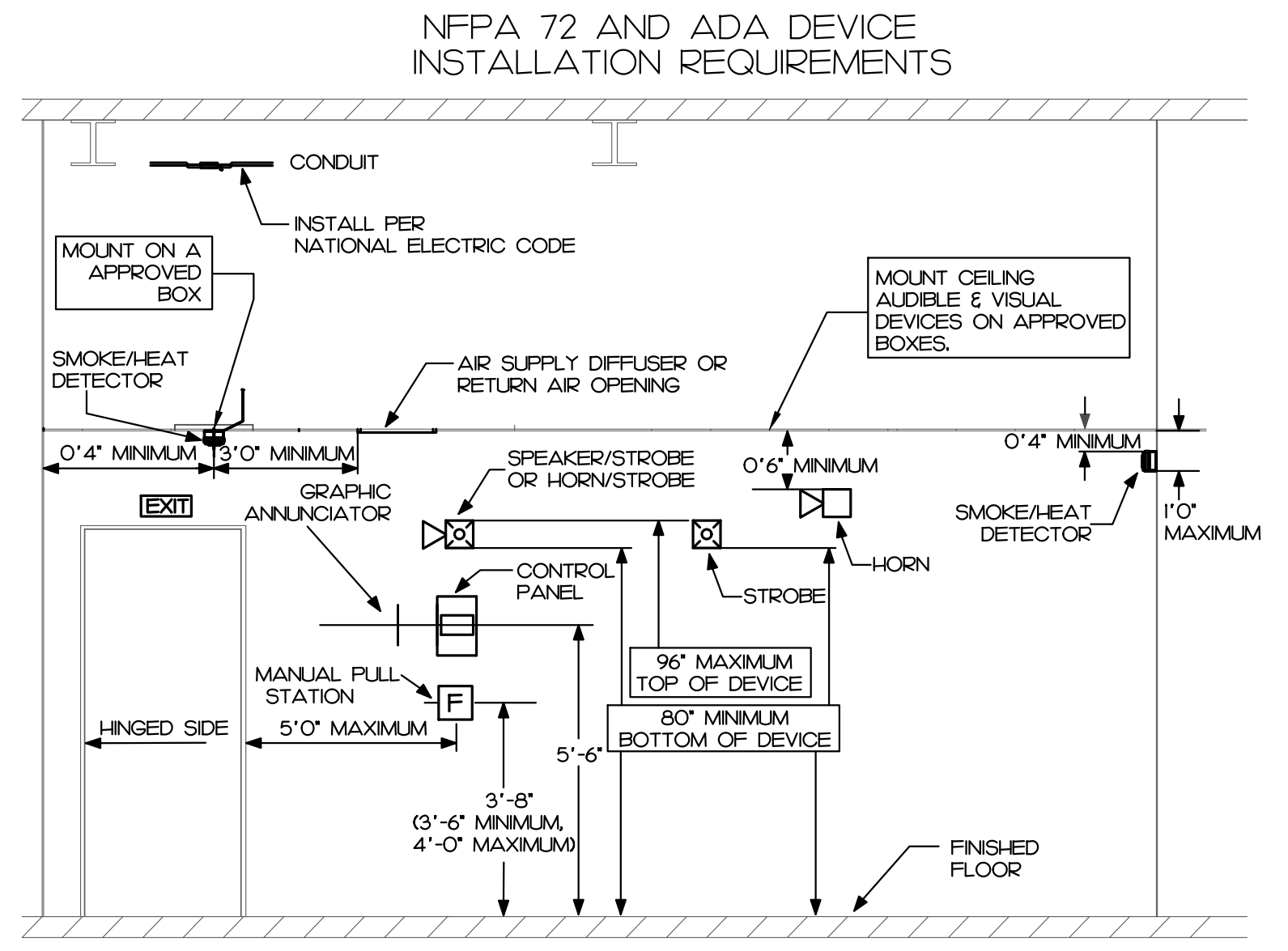


KEY NOTES

- ADDRESSABLE FIRE ALARM CONTROL PANEL. PROVIDE ADDITIONAL NAC PANELS AS REQUIRED.
- 2 LINE COMMUNICATION CABLE IN CONDUIT.
- CELLULAR DIGITAL ALARM COMMUNICATOR. SEE FIRE ALARM NOTE AND LEGEND FOR REQUIREMENTS.
- ADDRESSABLE CIRCUIT.
- NOTIFICATION APPLIANCE CIRCUIT.
- PROVIDE NETWORK CABLE IN CONDUIT AS REQUIRED TO NETWORK OPERATIONS BUILDING FAACP WITH HQ BUILDING FAACP.

FIRE ALARM RISER (G8)
NOT TO SCALE

SYSTEM INPUTS	SYSTEM OUTPUTS																			
	FAACP ANNUNCIATION					NOTIFICATION					REQUIRED FIRE SAFETY CONTROL									
1 FIRE ALARM SYSTEM AC POWER FAILURE																				
2 FIRE ALARM SYSTEM LOW BATTERY																				
3 OPEN CIRCUIT																				
4 GROUND FAULT																				
5 NOTIFICATION APPLIANCE CIRCUIT SHORT																				
6 BUILDING MANUAL PULL STATIONS																				
7 AREA SMOKE DETECTORS																				
8 SPRINKLER TAMPER SWITCH																				
9 SPRINKLER WATER FLOW IN BUILDING																				
10 -																				



KEY PLAN

NO	REVISION	DATE

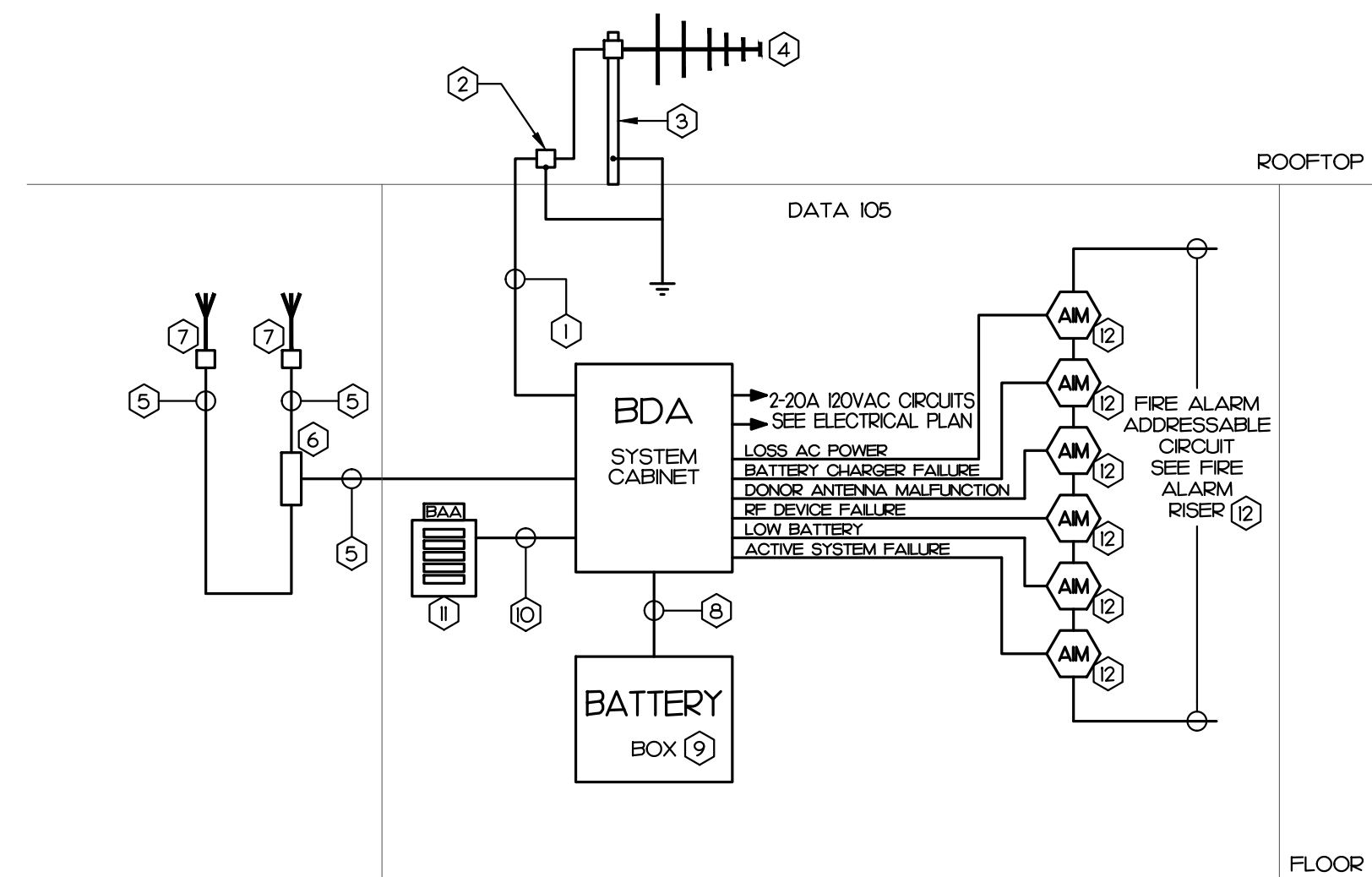
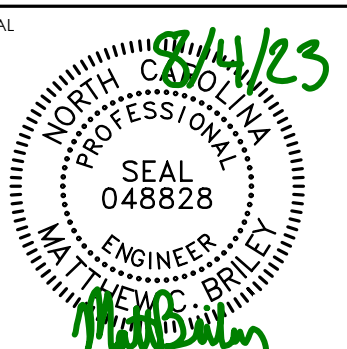
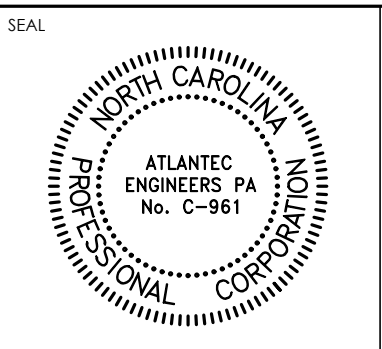
JKF
ARCHITECTURE

615 LYNHDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW
OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
OPERATIONS BUILDING FIRE ALARM RISER, LEGEND, NOTES, DETAILS, AND MATRIX

SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	2FA2.1
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	



KEY NOTES

- ① DONOR ANTENNAS CABLE IN CONDUIT.
- ② PROVIDE LIGHTNING ARRESTOR, GROUNDED AS REQUIRED.
- ③ DONOR ANTENNA MAST. TO BE BONDED TO BUILDING STEEL.
- ④ DONOR ANTENNA.
- ⑤ DISTRIBUTED ANTENNA SYSTEM (DAS) CABLE.
- ⑥ PROVIDE SIGNAL SPLITTER AS REQUIRED.
- ⑦ PROVIDE DAS ANTENNA(S) AS REQUIRED FOR COVERAGE. FILED VERIFY LOCATION AND INSTALLATION OUTSIDE FIRE RISER ROOM WITH ARCHITECT PRIOR TO ROUGH-IN.
- ⑧ BATTERY CABLE IN CONDUIT.
- ⑨ BATTERY BOX: 24VDC
- ⑩ REMOTE ANNUNCIATOR CIRCUIT IN CONDUIT.
- ⑪ REMOTE ANNUNCIATOR LOCATE ADJACENT TO FACP IN OPEN OFFICE.
- ⑫ FIRE ALARM DEVICE AND WIRING. SEE FIRE ALARM RISER DIAGRAM.

NOTES

1. CONTRACTOR SHALL PROVIDE PRICES FOR BI-DIRECTIONAL ANTENNA SYSTEM (BDA) AS FOLLOWS:
 - A. SYSTEM REQUIREMENT EVALUATION:
 - a. PROVIDE RF SURVEY AND MAP THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH (OUTSIDE) AT THE PROPERTY (RAW SURVEY)
 - b. A REGISTERED DESIGN PROFESSIONAL SHALL REVIEW THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH OUTSIDE (ER-RSS OUTSIDE) SURVEY AND BUILDING CONSTRUCTION PLANS TO DETERMINE THAT THE MINIMUM EMERGENCY RESPONDER RADIO SIGNAL STRENGTH INSIDE (ER-RSS INSIDE) WILL LIKELY BE AVAILABLE IN THE PROPOSED BUILDING.
 - WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A DBA OR RCS SYSTEM WILL NOT BE REQUIRED, SUBMIT EVALUATION TO THE LOCAL FIRE MARSHAL OFFICE FOR APPROVAL. DO NOT INSTALL THE BDA SYSTEM PER PLAN.
 - WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A DBA OR RCS SYSTEM WILL BE REQUIRED, SEE SYSTEM INSTALLATION.
 - B. SYSTEM INSTALLATION:
 - a. FURNISH SHOP DRAWINGS INCLUDING THE RADIO WAVE PROPAGATION PLAN TO THE LOCAL FIRE MARSHAL OFFICE FOR APPROVAL.
 - b. PROVIDE INSTALLATION PLAN.
 - c. PRIOR TO FINAL INSPECTION, AN ER-RSS INSIDE SURVEY SHALL BE PERFORMED AND MAPPED. THIS SHALL BE SUBMITTED TO THE ENGINEER AND THE LOCAL FIRE MARSHAL OFFICE.
2. SHOWN DIAGRAM IS A GUIDE LINE. IF THE INSTALLATION IS REQUIRED UPON SURVEY CONTRACTOR SHALL PROVIDE INSTALLATION PER SPECIFICATIONS AND MANUFACTURER INSTRUCTION.
3. INSTALLATION SHALL COMPLY WITH 2018 NC FIRE CODE, 2019 NFPA 72 AND 2016 NFPA 122.

BI-DIRECTION ANTENNA SYSTEM DETAIL (A8)
NOT TO SCALE

KEY PLAN

NO	REVISION	DATE

JKF
ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW
OPERATIONS BUILDING
CLINTON, NC

DRAWING TITLE
BDA SYSTEM DETAIL

SCALE	SEE PLANS	DRAWING NO 2FA2.2
DRAWN	MCB	
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	