

CONSTRUCTION DOCUMENTS FOR

SAMPSON COMMUNITY COLLEGE

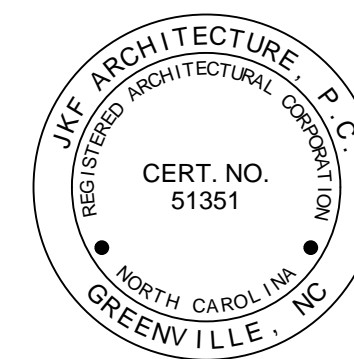
ACTIVITIES BUILDING ADDITION

CLINTON, NC

SCO ID NO.17-16813-01C: NCCCS NO. 2163

JKF PROJECT NO. 2024-06

MAY 20, 2024



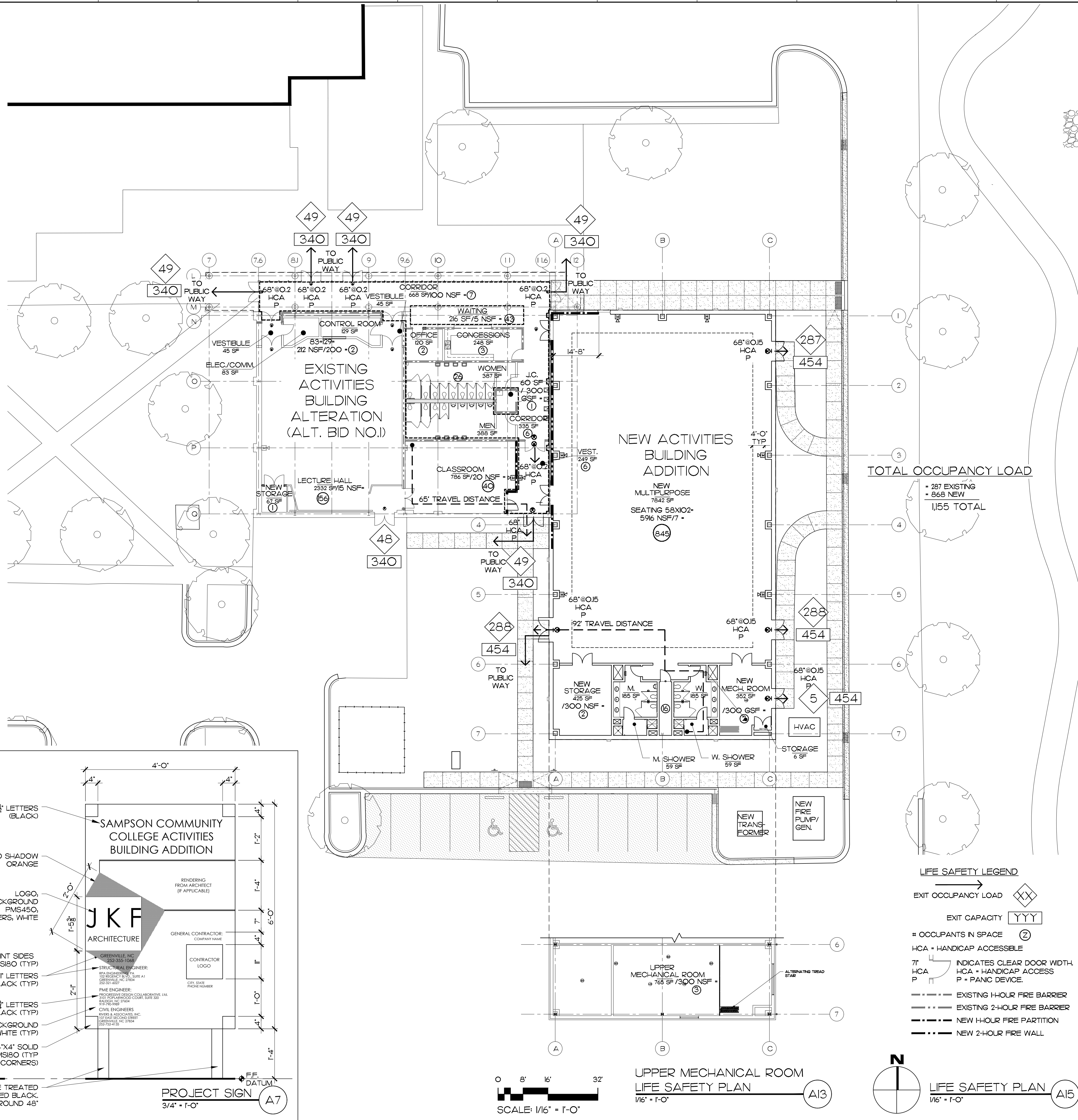
RPA ENGINEERING, PA
STRUCTURAL ENGINEER
102 REGENCY BLVD., SUITE A1
GREENVILLE, NC 27834
252-321-6027

PROGRESSIVE DESIGN
COLLABORATIVE, Ltd.
MECHANICAL & ELECTRICAL ENGINEERS
3101 POPLARWOOD COURT, SUITE 320
RALEIGH, NC 27604
919-790-9989

RIVERS & ASSOCIATES, INC.
CIVIL/SITE ENGINEERS
107 E. 2ND STREET
GREENVILLE, NC 27858
252-752-4135

ROOM FINISH SCHEDULE (SEE FLOOR PLANS)	
ROOM NAME	WALL FINISH BASE MATERIAL/FINISH FLOOR MATERIAL/FINISH
FLOOR MATERIALS/FINISH	A ATHLETIC FLOORING B CERAMIC TILE C EXPOSED CONCRETE D EXISTING TO REMAIN E VINYL COMPOSITE TILE TO MATCH EXISTING F CARPET TILE
BASE MATERIALS	CT CERAMIC TILE EX EXISTING TO REMAIN R RUBBER BASE TO MATCH EXISTING RB RUBBER BASE
WALL MATERIALS/FINISH	EX EXISTING TO REMAIN PM PAINTED MATCH EXISTING PB PAINTED GYPSUM BOARD/MASONRY # DESIGNATIONS NOTED ON PLAN
REFLECTED CEILING PLAN LEGEND	
ROOM NAME	ROOM NO.
CLG. HGT.	FIN. CLG. HEIGHT AFF.
	CEILING MATERIAL
	LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS FOR SIZE AND TYPE)
	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)
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR GRILLE
	DOWNLIGHT FIXTURE
	WALL SCONCE OR MOUNTED FIXTURE
	EXIT SIGN
	SIGN FACE
	DIRECTION ARROW IF NEEDED
	SPEAKER
	HEAT DETECTOR
	SMOKE DETECTOR
	SPRINKLER HEAD CEILING
	FIRE ALARM HORN STROBE
	DATUM ABOVE FIN. FLOOR
	CEILING MATERIAL (SEE LEGEND)
CEILING MATERIALS LEGEND	
APC	ACOUSTICAL PANEL CEILING
PGB	PAINTED GYPSUM BOARD
ETR	EXISTING TO REMAIN
EXP	EXPOSED STRUCTURE
GENERAL PROJECT LEGEND	
	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 A7J)
	DOT DENOTES SIDE W/SPECIAL FINISH
	EXISTING 1-HOUR FIRE PARTITION
	EXISTING 2-HOUR FIRE PARTITION
	NEW 1-HOUR FIRE PARTITION
	NEW 2-HOUR FIRE WALL
	GENERAL NOTE REFERENCE
	NUMBERS DESIGNATE DEMOLITION
	LETTERS DESIGNATE CONSTRUCTION
	NEW CONSTRUCTION

ARCHITECTURAL ABBREVIATIONS	
APC	ACOUSTICAL PANEL CEILING
ADJ	ADJACENT
AF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
AN	ANODIZED
ATTN	ATTENUATION
BD	BOARD
BIT	BITUMINOUS
BLK	BLACK
BLKGT	BLANKET
BPM	BEAM
BOS	BOTTOM OF SLAB
BOS	BOTTOM OF STEEL
BRG	BEARING
CB	CABINET
CCAP	CAPACITY
CC	CENTRAL
CC	CENTERLINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLJ	CONTROL JOINT
CL	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CT	CERAMIC TILE
CR	CERAMIC TILE
DWG	DRAWING
EACH	EACH
ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR
EXH	EXHAUST FAN
ENCLOSURE	ENCLOSURE
ENCL	ENCLOSURE
FACE OF SLAB	FACE OF SLAB
EQUIPMENT CONTRACTOR	EQUIPMENT CONTRACTOR
ELECTRIC WATER COOLER	ELECTRIC WATER COOLER
EXISTING	EXISTING
EXPOSED	EXPOSED
EXT	EXTERIOR
EXTENSION JOINT	EXTENSION JOINT
FLOOR DRAIN	FLOOR DRAIN
FIRE EXTINGUISHER	FIRE EXTINGUISHER
FINISHED FLOOR ELEVATION	FINISHED FLOOR ELEVATION
FACE OF REINFORCED POLYESTER	FACE OF REINFORCED POLYESTER
FIRE RETARDANT TREATED	FIRE RETARDANT TREATED
FOOTING	FOOTING
FUR	FUR
GAUG	GAUGE
GALLON	GALLON
GENERAL CONTRACTOR	GENERAL CONTRACTOR
CLASS	CLASS
GENERAL NOTE	GENERAL NOTE
GYPSUM BOARD	GYPSUM BOARD
HARDWARE	HARDWARE
HOLLOW METAL	HOLLOW METAL
HIGH POINT	HIGH POINT
HEIGHT	HEIGHT
HEATING VENTILATION AIR CONDITIONING	HEATING VENTILATION AIR CONDITIONING
INTERIOR	INTERIOR
INSULATION	INSULATION
INVERT	INVERT
JOINT	JOINT
LAMINATED FIRE-RATED SAFETY GLASS	LAMINATED FIRE-RATED SAFETY GLASS
PAINTED CERAMIC GLASS	PAINTED CERAMIC GLASS
LA	LA
LOW POINT	LOW POINT
MANUFACTURER	MANUFACTURER
MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MECH	MECHANICAL
MIN	MINIMUM
MASONRY OPENING	MASONRY OPENING
MOUNTED	MOUNTED
METAL	METAL
NOT TO CONTRACT	NOT TO CONTRACT
NOT TO SCALE	NOT TO SCALE
OBSC.	OBSCURED
ON CENTER	ON CENTER
OVERHANG	OVERHANG
OPENING	OPENING
PARTITION CONTRACTOR	PARTITION CONTRACTOR
PAINTED GYPSUM BOARD	PAINTED GYPSUM BOARD
PAINTED GYPSUM BOARD WITH REVEAL	PAINTED GYPSUM BOARD WITH REVEAL
PLATE	PLATE
PAINTED	PAINTED
REFRIGERATOR	REFRIGERATOR
REINFORCING / REINFORCING REQUIRED	REINFORCING / REINFORCING REQUIRED
REQUIRED	REQUIRED
ROOM	ROOM
ROUGH OPENING	ROUGH OPENING
RAIL & STILE WOOD	RAIL & STILE WOOD
SCHEDULE	SCHEDULE
SQUARE FEET	SQUARE FEET
SPECIFICATIONS	SPECIFICATIONS
STAINLESS STEEL	STAINLESS STEEL
STANDARD	STANDARD
STEEL	STEEL
STRUCTURE / STRUCTURAL	STRUCTURE / STRUCTURAL
SUSPENDED	SUSPENDED
TOP CURB	TOP CURB
TRANSPARENT FINISH	TRANSPARENT FINISH
TEMP	TEMPERED
THK	THICKNESS
TOP OF JOIST	TOP OF JOIST
TOP OF BLOCK	TOP OF BLOCK
TOP OF MASONRY	TOP OF MASONRY
TOP OF PLATE	TOP OF PLATE
TOP OF WALL	TOP OF WALL
TYP	TYPICAL
TYPICAL	TYPICAL
TUBE STEEL	TUBE STEEL
UNLESS OTHERWISE NOTED	UNLESS OTHERWISE NOTED
VAR	VARIABLE
VERT	VERTICAL
VERIFY IN FIELD	VERIFY IN FIELD
VID	VIDEO
WDW	WINDOW
WOOD SOLID CORE	WOOD SOLID CORE
WELDED WIRE FABRIC WITH	WELDED WIRE FABRIC WITH



MATERIALS KEYING LEGEND		
DRAWING INDEX:		
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SURVEY (PARTIAL CAMPUS)		
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GENERAL NOTES		
SCO ID NO.17-16813-01C; NCCCS NO.2163		
NO	REVISION	DATE
<h1>J K F</h1> <p>ARCHITECTURE</p>		
425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048		
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC		
DRAWING TITLE		
BUILDING CODE ANALYSIS, LEGENDS, SYMBOLS, & ABBREVIATIONS		
SCALE	DRAWING NO.	
1/16" = 1'-0"	A13	
DRAWN	JRH	
CHECKED	JKF	
DATE	5-20-2024	
PROJECT NO.	2024-06	
BC1.1		

EXISTING ACTIVITIES BUILDING ALTERATION

NEW ACTIVITIES BUILDING ADDITION

MATERIALS KEYING LEGEND

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ALTERATION
Address: SAMPSON COMMUNITY COLLEGE, 1801 SUNSET AVE., CLINTON, NC Zip Code 28328

CONTACT: John K. Farkas, AIA
Architectural: JKF Architecture, P.C.
Civil: Rivers & Associates, P.C.
Electrical: Progressive Design Collaborative, Ltd.
Fire Alarm: Progressive Design Collaborative, Ltd.
Plumbing: Progressive Design Collaborative, Ltd.
Mechanical: Progressive Design Collaborative, Ltd.
Sprinkler-Structural: RPA Engineering, PA

PERCENTAGE OF WALL OPENING CALCULATIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES
DEGREE OF OPENINGS PROTECTION (TABLE 705.5)

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Partial
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: BCI.1
Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)
Exterior wall opening area with respect to distance to assumed property lines (705.8)

Gross Building Area Table
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL
1st Floor 7,300 0 7,300

ALLOWABLE AREA

Primary Occupancy Classification(s): Assembly - A-3
Accessory Occupancy Classification(s): Business
Incidental Uses (Table 509): None

ENERGY SUMMARY - NO CHANGE TO EXISTING BUILDING ENVELOPE
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Importance Factors: Snow (I_s) 1.1, Seismic (I_s) 1.25
Live Loads: Roof 20 psf, Mezzanine N/A, Floor 100 psf
Ground Snow Load: 10 psf
Wind Load: Ultimate Wind Speed 140 mph (ASCE-7)

SEISMIC DESIGN CATEGORY: C

PERCENTAGE OF WALL OPENING CALCULATIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES
DEGREE OF OPENINGS PROTECTION (TABLE 705.5)

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
Address: SAMPSON COMMUNITY COLLEGE, 1801 SUNSET AVE., CLINTON, NC Zip Code 28328

CONTACT: John K. Farkas, AIA
Architectural: JKF Architecture, P.C.
Civil: Rivers & Associates, P.C.
Electrical: Progressive Design Collaborative, Ltd.
Fire Alarm: Progressive Design Collaborative, Ltd.
Plumbing: Progressive Design Collaborative, Ltd.
Mechanical: Progressive Design Collaborative, Ltd.
Sprinkler-Structural: RPA Engineering, PA

2018 NC BUILDING CODE: New Building
2018 NC EXISTING BUILDING CODE: Alteration Level I
CONSTRUCTED: (date) N/A CURRENT OCCUPANCY(S) (Ch. 3): N/A

RISK CATEGORY (Table 1604.5): Current: N/A Proposed: III
BASIC BUILDING DATA
Construction Type: II-B
Sprinklers: Yes NFPA 13
Standpipes: No

Gross Building Area Table
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL
1st Floor 0 10,000 10,000

ALLOWABLE AREA

Primary Occupancy Classification(s): Assembly - A-3
Accessory Occupancy Classification(s): REFRIGERANT MACHINE ROOM
Incidental Uses (Table 509): N/A

ENERGY SUMMARY - NO CHANGE TO EXISTING BUILDING ENVELOPE
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

ALLOWABLE HEIGHT

FIRE PROTECTION REQUIREMENTS

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE, RATIO, PROVIDED, DETAIL #, DESIGN #, SHEET # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS

PERCENTAGE OF WALL OPENING CALCULATIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES
DEGREE OF OPENINGS PROTECTION (TABLE 705.5)

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Partial
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: BCI.1

- Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)
Exterior wall opening area with respect to distance to assumed property lines (705.8)
Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
Occupant loads for each area
Exit sign locations (1013)
Exit access travel distances (1017)
Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
Dead end lengths (1020.4)
Clear exit widths for each exit door
Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
Purpose of occupancy separation
Separation of doors with panic hardware (1010.1.10)
Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
Location of doors with electromagnetic egress locks (1010.1.9.9)
Location of doors equipped with hold-open devices
Location of emergency escape windows (1030)
The square footage of each fire area (202)
The square footage of each smoke compartment for Occupancy Classification 1-2 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS - N/A (SECTION 1107)

ACCESSIBLE PARKING - EXISTING TO REMAIN/NO CHANGE (SECTION 1106)
Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, PROVIDED, # OF ACCESSIBLE SPACES PROVIDED, TOTAL # ACCESSIBLE PROVIDED

PLUMBING FIXTURE REQUIREMENTS - NO CHANGE (TABLE 2902.1)
Table with columns: USE, WATER CLOSURES, URINALS, LAVATORIES, SINKS, DRINKING FOUNTAINS

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY SUMMARY - NO CHANGE TO EXISTING BUILDING ENVELOPE

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

Existing building envelope complies with code: Yes (The remainder of this section is not applicable)

Climate Zone: 3A

THERMAL ENVELOPE (Prescriptive method only)

Roofceiling Assembly (each assembly)
Description of assembly: STANDING SEAM METAL ROOF 6" EXTRUDED POLYSTYRENE INSULATION
U-Value of total assembly: U=0.039 REQUIRED, U=0.033 PROVIDED

Exterior Walls (each assembly)
Description of assembly: 4" FACEBRICK, 2.5" AIRSPACE, 1/2" RIGID INSULATION, 8" CMU
U-Value of total assembly: U=0.123 REQUIRED, U=0.067 PROVIDED

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A

Floors slab on grade
Description of assembly: 4" CONC. SLAB ON GRADE
U-Value of total assembly: N/A

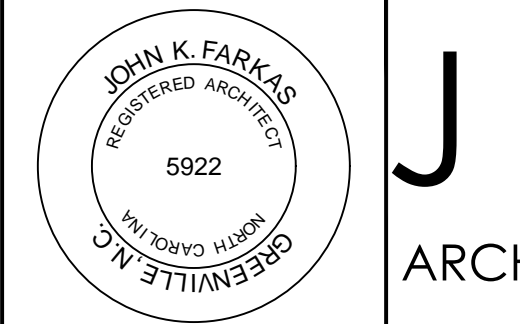
Roof/Floor Separation
Party/Fire Wall Separation
Smoke Barrier Separation
Smoke Partition
Tenant Dwelling Unit/Sleeping Unit Separation

GENERAL NOTES

KEY PLAN

SCO ID NO.17-16813-01C: NCCCS NO.2163

NO REVISION DATE



JKF ARCHITECTURE

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

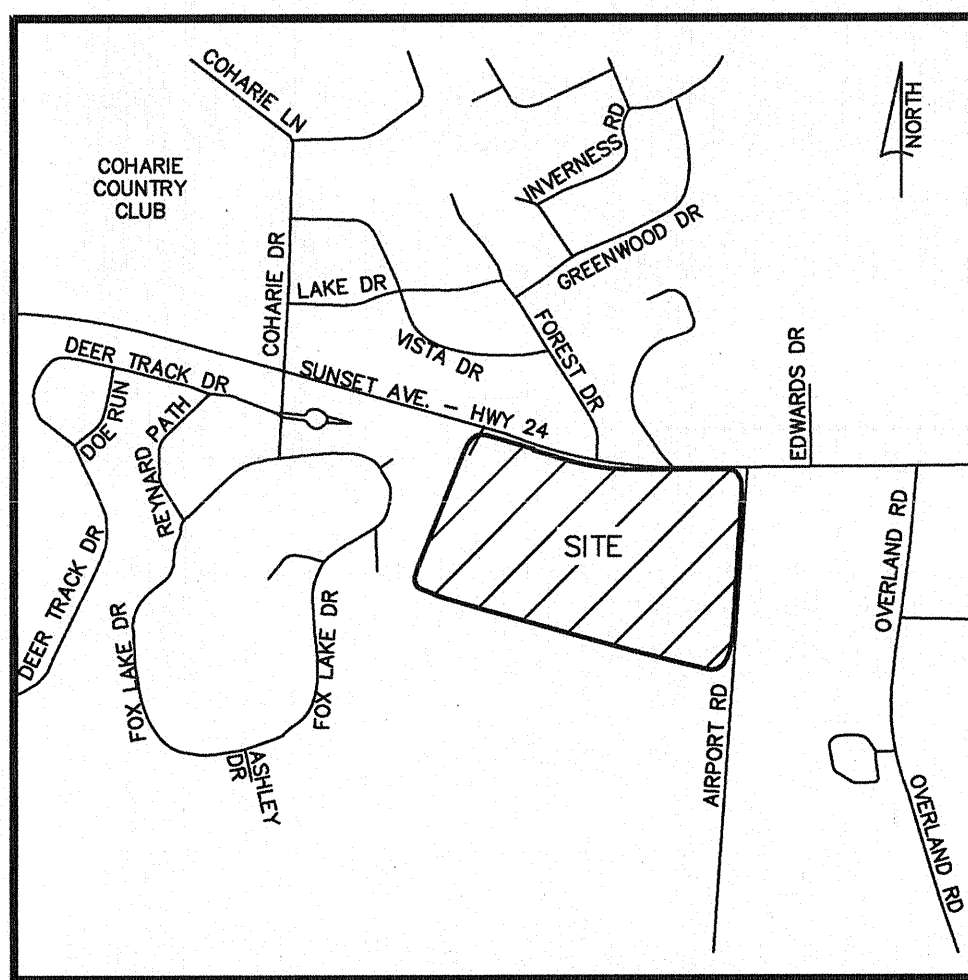
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE

BUILDING CODE ANALYSIS

SCALE: AS NOTED
DRAWN: JRH
CHECKED: JKF
DATE: 5-20-2024
PROJECT NO.: 2024-06
DRAWING NO.: BCI.2

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SOURCE OF TITLE
 DB 837, PG 558
 DB 856, PG 489
 DB 1779, PG 364

REFERENCES
 DB 387, PG 321
 DB 825, PG 70
 DB 856, PG 687
 MB 16, PG 91-A

FLOOD NOTE
 THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARDOUS AREA (ZONE X). REFERENCE: EFFECTIVE FROM 3/20/14 (M004) CD 370263, PANEL 1484 EFFECTIVE DATE 1/5/2007

SITE DATA
 TOTAL AREA 52.80 AC

- SURVEY NOTES:**
- ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS UNLESS SHOWN OTHERWISE.
 - ACREAGE CALCULATED BY COORDINATE METHOD.
 - NO TITLE OPINION OR TITLE COMMITMENT WAS PROVIDED BY THE OWNER AT THE TIME OF THIS SURVEY.
 - PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, AND RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
 - UNDERGROUND UTILITIES PLOTTED IN PART FROM ACTUAL FIELD LOCATION OF ABOVE GROUND FEATURES AND INFORMATION PROVIDED BY THE CITY OF CLINTON, AND MARKED BY AN UNDERGROUND UTILITY LOCATING CONSULTANT.
 - THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN REFLECT ALL SUCH UTILITIES IN THE AREA OF SURVEY, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
 - MATERIAL TYPES NOTED ON THIS MAP WERE TAKEN FROM PROVIDED PLANS OR FROM REASONABLY ACCESSIBLE INFORMATION.
 - ALL CURB ELEVATIONS ARE TOP OF CURB ELEVATION.
 - NC DOT ROAD IMPROVEMENT PROJECT ONGOING DURING PROJECT SURVEY.
 - VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CERTIFICATIONS:

I, KENNETH L. BIGGS, SR., CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS AS APPLICABLE; THAT THE ORIGINAL DATA WAS OBTAINED ON 5/16/2017; THAT THE GROUND SURVEY WAS COMPLETED ON 11/01/2017; THAT CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARDS; AND ALL ELEVATIONS ARE BASED ON NAVD 88.

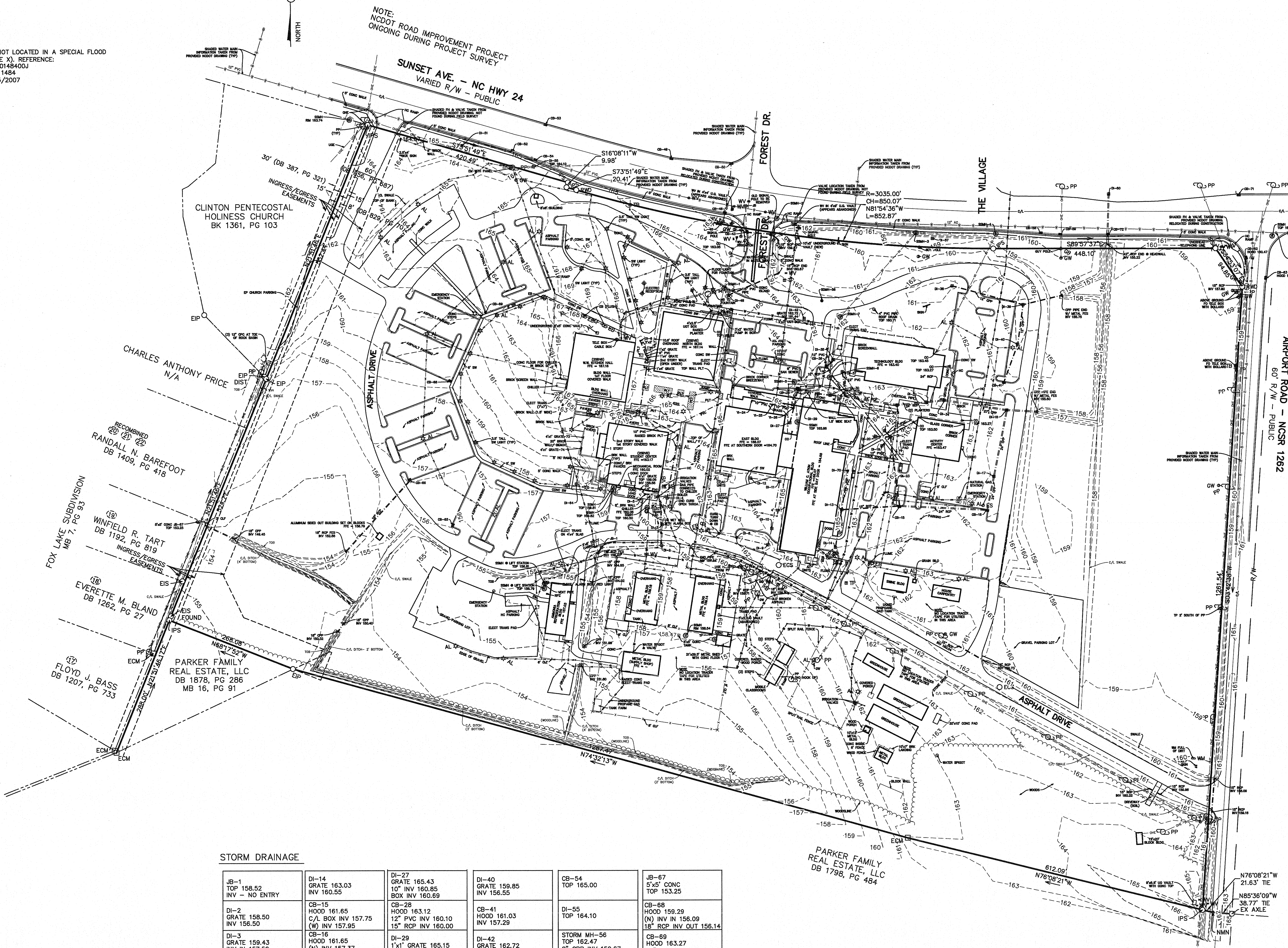
Kenneth L. Biggs, Sr.
 KENNETH L. BIGGS, SR., P.L.S. L-3110



- I, KENNETH L. BIGGS, SR., PROFESSIONAL LAND SURVEYOR NO. L-3110, CERTIFY TO ONE OR MORE OF THE FOLLOWING AS INDICATED THUS [X] OR []:
- A. THAT THIS PLAT IS OF A SURVEY THAT CREATES A SUBDIVISION OF LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND;
 - B. THAT THIS PLAT IS OF A SURVEY THAT IS LOCATED IN SUCH PORTION OF A COUNTY OR MUNICIPALITY THAT IS UNREGULATED AS TO AN ORDINANCE THAT REGULATES PARCELS OF LAND;
 - C. ANY OF THE FOLLOWING:
 - 1) THAT THE SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET;
 - 2) THAT THE SURVEY IS OF AN EXISTING BUILDING OR OTHER STRUCTURE, OR NATURAL FEATURE, SUCH AS A WATERCOURSE; OR
 - 3) THAT THE SURVEY IS A CONTROL SURVEY.
 - D. THAT THIS PLAT IS OF A SURVEY OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION;
 - E. THAT THE INFORMATION AVAILABLE TO THIS SURVEYOR IS SUCH THAT I AM UNABLE TO MAKE A DETERMINATION TO THE BEST OF MY PROFESSIONAL ABILITY AS TO PROVISIONS CONTAINED IN (A) THROUGH (D) ABOVE.

Kenneth L. Biggs, Sr.
 SURVEYOR

2/9/18
 DATE



STORM DRAINAGE

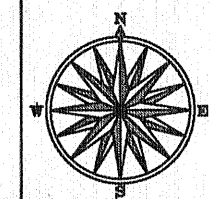
SB-1 TOP 158.52 INV - NO ENTRY	DI-14 GRATE 163.03 INV 160.55	DI-27 GRATE 165.43 10" INV 160.85 BOX INV 160.69	DI-40 GRATE 159.85 INV 156.55	SB-54 TOP 156.00	SB-67 5'x5' CONC TOP 153.25
DI-2 GRATE 158.50 INV 156.50	CB-15 HOOD 161.65 C/L BOX INV 157.75 (W) INV 157.95	CB-28 HOOD 163.12 12" PVC INV 160.10 15" RCP INV 160.00	CB-41 HOOD 161.03 INV 157.29	DI-55 TOP 164.10	CB-68 HOOD 159.29 (N) INV IN 156.09 18" RCP INV OUT 156.14
DI-3 GRATE 159.43 INV IN 157.58 INV OUT 157.38	DI-29 HOOD 161.65 (N) INV 157.37 (W) INV 157.24	DI-29 11" GRATE 165.15 INV 159.35	DI-42 GRATE 162.72 INV 161.44	CB-58 HOOD 163.27 18" RCP INV 158.05	DI-70 TOP 163.68 INV 159.95
DI-4 GRATE 160.36 (N) INV 157.96 (S) 18" RCP INV 157.86	DI-17 GRATE 161.84 INV 156.89	DI-30 11" GRATE 165.15 INV 157.85	CB-43 HOOD 162.91	DI-57 GRATE 158.18	CB-71 HOOD 159.85
DI-5 2'x2' GRATE 159.39 INV 158.45	DI-18 GRATE 161.32 (W) 24" INV 156.07 (E) 36" INV 156.08 (S) INV 156.12	DI-31 2'x2' GRATE 164.53 INV 157.83	CB-44 HOOD 162.53	CB-58 HOOD 161.05	CB-72 HOOD 160.83
DI-6 2'x2' GRATE	DI-19 GRATE 162.74 INV 160.19	DI-32 GRATE 162.48 INV 157.46	DI-45 TOP 162.12	CB-59 HOOD 160.75	GRATE-73 TOP 162.70 INV 158.98
DI-7 GRATE 161.90 18" RCP INV 158.80	DI-20 GRATE 162.74 12" PVC INV 158.94 (NW) INV 159.59	DI-33 (VERTICAL PIPE) TOP 162.89 INV 157.87	CB-46 NEW TOP ELEV 163.55	DI-60 GRATE 158.30	GRATE-74 TOP 162.70 INV 158.98
DI-8 GRATE 161.86 18" RCP INV 159.00	DI-21 GRATE 162.71 12" PVC INV 159.71	DI-34 GRATE 162.77 INV IN 156.92 INV OUT 156.72	DI-47 (PREVIOUS CB)	DI-57 GRATE 158.18	DI-70 TOP 163.68 INV 159.95
DI-9 GRATE 162.17 INV 159.80	DI-22 GRATE 162.60 12" PVC INV 158.50 12" PVC INV 158.60 18" RCP INV 158.05	DI-35 11" GRATE 162.94 INV 159.67	DI-48 TOP 164.83 15" INV OUT 161.55	DI-57 GRATE 158.18	DI-70 TOP 163.68 INV 159.95
DI-10 GRATE 164.24 INV 158.54	DI-23 GRATE 161.57 (S) 15" INV 158.07 (N) 15" INV 157.90	DI-36 GRATE 163.40 INV 161.30	DI-49 HOOD 162.97	DI-57 GRATE 158.18	DI-70 TOP 163.68 INV 159.95
DI-11 GRATE 164.27 INV 160.61	DI-24 TOP 164.10 INV 162.25	DI-37 GRATE 163.40 INV 161.30	DI-50 HOOD 161.71	DI-57 GRATE 158.18	DI-70 TOP 163.68 INV 159.95
DI-12 GRATE 164.31 INV 161.61	DI-25 TOP 164.23 INV 161.31	DI-38 GRATE 160.59 INV 157.66	DI-51 TOP 163.15	DI-57 GRATE 158.18	DI-70 TOP 163.68 INV 159.95
DI-13 GRATE 163.56 (E) INV 159.06 (S) INV 159.24 (N) INV 159.14	DI-26 TOP 165.43 (N) INV 160.26 (S) INV 160.36 (W) INV 160.85	DI-39 GRATE 159.00 (S) 12" INV 156.38 (W) 12" INV 156.36 (E) 18" INV OUT 156.35	DI-52 HOOD 165.00	DI-57 GRATE 158.18	DI-70 TOP 163.68 INV 159.95

SANITARY SEWER

SSMH-1 TOP 165.88 (N) INV 163.57 (S) INV 163.67 (SW) INV 163.73	SSMH-2 TOP 161.64 (SW) INV 155.50 (E) INV 155.55 (W) INV 155.45	SSMH-3 TOP 159.69 (SW) INV 153.88 (W) INV 153.69 (E) INV 153.35	SSMH-4 TOP 161.67 (SW) INV 154.04 (E) INV 154.06 (W) INV 154.16	SSMH-5 TOP 163.26 (E) INV 158.36 (S) INV 158.41	SSMH-6 TOP 163.89 (N) INV 157.09 (W) INV 157.83	SSMH-7 TOP 161.70 (S) INV 156.57 (NE) INV 156.47
---	---	---	---	--	--	---

Owner/Contact Info:
 Sampson Community College
 1801 Sunset Ave., (US Hwy 24)
 Clinton, NC 28328
 (910) 592-8081

COASTAL CAROLINA SURVEYORS, PLLC
 LAND SURVEYORS
 PO Box 2768, Winterville, NC 28590
 KLB cell (252) 702-1427, FAX (252) 321-8621
 kensbiggs1@yahoo.com

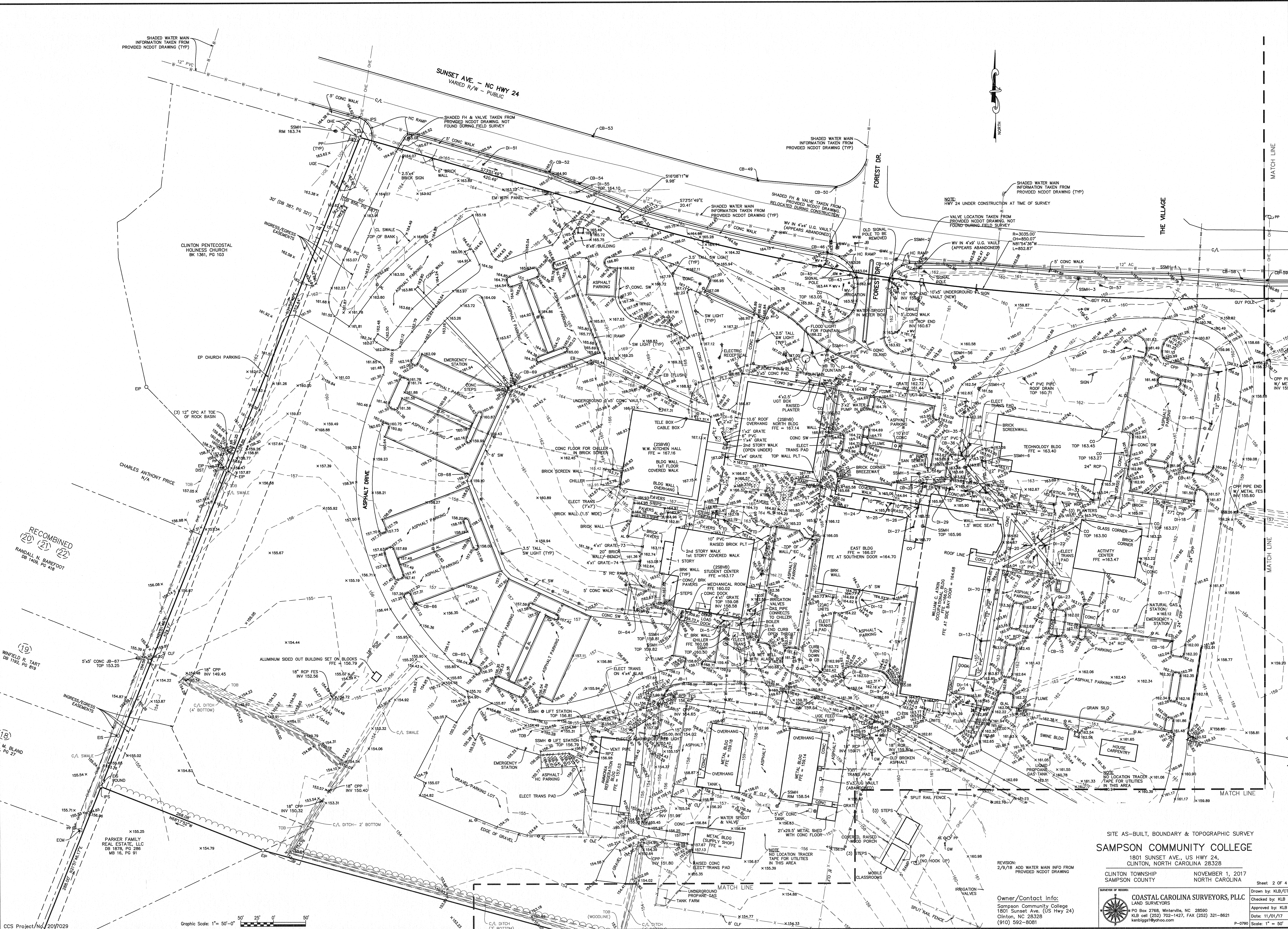


Drawn by: KLB/CT
 Checked by: KLB
 Approved by: KLB
 Date: 11/01/17
 Scale: 1" = 100'

SITE AS-BUILT, BOUNDARY & TOPOGRAPHIC SURVEY
SAMPSON COMMUNITY COLLEGE
 1801 SUNSET AVE., US HWY 24,
 CLINTON, NORTH CAROLINA 28328
 CLINTON TOWNSHIP NOVEMBER 1, 2017
 SAMPSON COUNTY NORTH CAROLINA

REVISION:
 2/9/18 ADD WATER MAIN INFO FROM PROVIDED NC DOT DRAWING

Graphic Scale: 1" = 100'-0"



SHADED WATER MAIN INFORMATION TAKEN FROM PROVIDED NCDOT DRAWING (TYP)

SUNSET AVE. - NC HWY 24
VARIED R/W - PUBLIC



NOTE: HWY 24 UNDER CONSTRUCTION AT TIME OF SURVEY
VALVE LOCATION TAKEN FROM PROVIDED NCDOT DRAWING, NOT FOUND DURING FIELD SURVEY

CLINTON PENTECOSTAL HOLINESS CHURCH
BK 1361, PG 103

CHARLES ANTHONY PRICE
N/A

RECOMBINED
(20) (21) (22)
RANDALL N. BAREFOOT
DB 1409, PG 418

(19)
WINFIELD R. TART
DB 1192, PG 819

(18)
M. BLAND
PG 27

PARKER FAMILY REAL ESTATE, LLC
DB 1878, PG 286
MB 16, PG 91

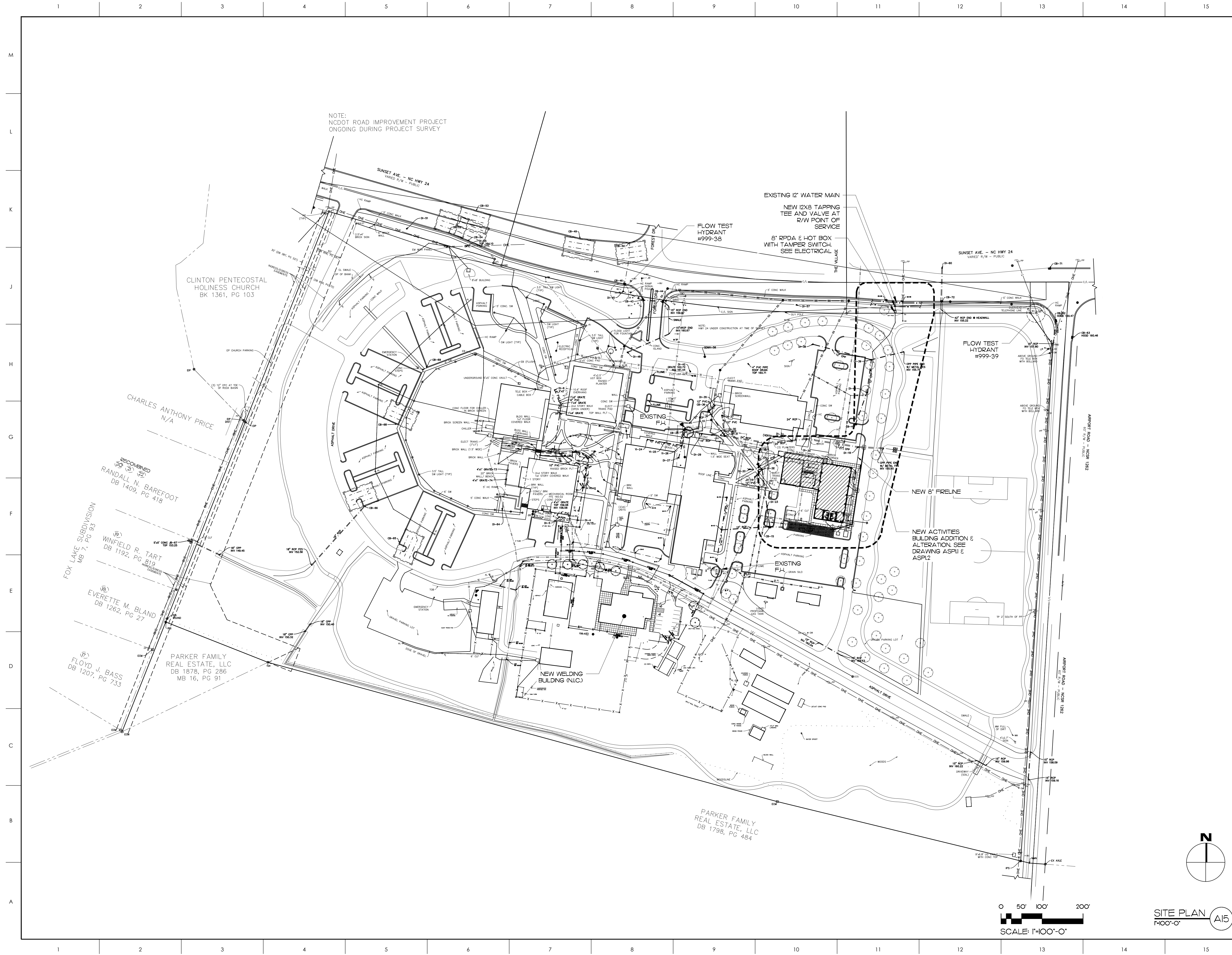
SITE AS-BUILT, BOUNDARY & TOPOGRAPHIC SURVEY
SAMPSON COMMUNITY COLLEGE
1801 SUNSET AVE., US HWY 24,
CLINTON, NORTH CAROLINA 28328

CLINTON TOWNSHIP
SAMPSON COUNTY
NOVEMBER 1, 2017
NORTH CAROLINA

Owner/Contact Info:
Sampson Community College
1801 Sunset Ave. (US Hwy 24)
Clinton, NC 28328
(910) 592-8081

COASTAL CAROLINA SURVEYORS, PLLC
LAND SURVEYORS
PO Box 2768, Winterville, NC 28590
CLB cell (252) 702-1427, FAX (252) 321-8621
kenblggs@yahoo.com
P-0790

Graphic Scale: 1" = 50'-0"
0' 25' 50'



NOTE:
NCDOT ROAD IMPROVEMENT PROJECT
ONGOING DURING PROJECT SURVEY

EXISTING 12" WATER MAIN
NEW 12x8 TAPPING
TEE AND VALVE AT
R/W POINT OF
SERVICE
8" RPDA & HOT BOX
WITH TAMPER SWITCH.
SEE ELECTRICAL

FLOW TEST
HYDRANT
#999-39

NEW 6" FIRELINE

NEW ACTIVITIES
BUILDING ADDITION &
ALTERATION SEE
DRAWING ASP11 &
ASP12

PARKER FAMILY
REAL ESTATE, LLC
DB 1798, PG 484

CLINTON PENTECOSTAL
HOLINESS CHURCH
BK 1361, PG 103

CHARLES ANTHONY PRICE
N/A

RECOVERED
RANDALL N. BAREFOOT
DB 1409, PG 418

WINFIELD R. TART
DB 1192, PG 819

EVERETTE M. BLAND
DB 1262, PG 27

FLOYD J. BASS
DB 1207, PG 733

PARKER FAMILY
REAL ESTATE, LLC
DB 1878, PG 286
MB 16, PG 91

MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

Rivers & Associates, Inc.
Since 1916
107 East Second Street
Greenville, NC 27858
(252) 752-4135
Engineers
Planners
Surveyors
Landscape Architects

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

JKF
ARCHITECTURE

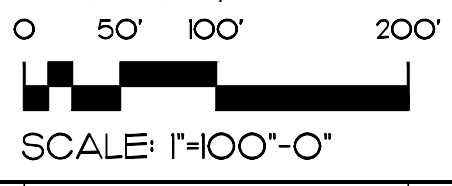
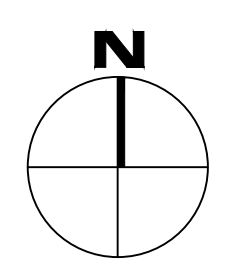
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
OVERALL CAMPUS PLAN

SCALE 1"=100'-0"	DRAWING NO.
DRAWN JRH	ASPO.O
CHECKED JKF	
DATE 5-20-2024	
PROJECT NO. 2024-06	

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SITE PLAN
1"=100'-0" (A15)



MATERIALS KEYING LEGEND

CB-15 HOOD 161.65 C/L BOX INV 157.75 (W) INV 157.95
CB-16 HOOD 161.65 (N) INV 157.37 (W) INV 157.24
DH-7 GRATE 161.84 INV 156.89
DH-8 GRATE 161.32 (W) 24" INV 156.07 (E) 36" INV 156.08 (S) INV 156.12

GENERAL NOTES
 1 STRIP SITE AREA OF 6'-8" OF TOP SOL.

KEY PLAN

Rivers & Associates, Inc.
 Since 1916
 107 East Second Street
 Greenville, NC 27858
 (252) 752-4135
 Engineers
 Planners
 Surveyors
 Landscape Architects

NC License: P-9334

SCO ID NO. 17-16813-01C; NCCCS NO. 2163

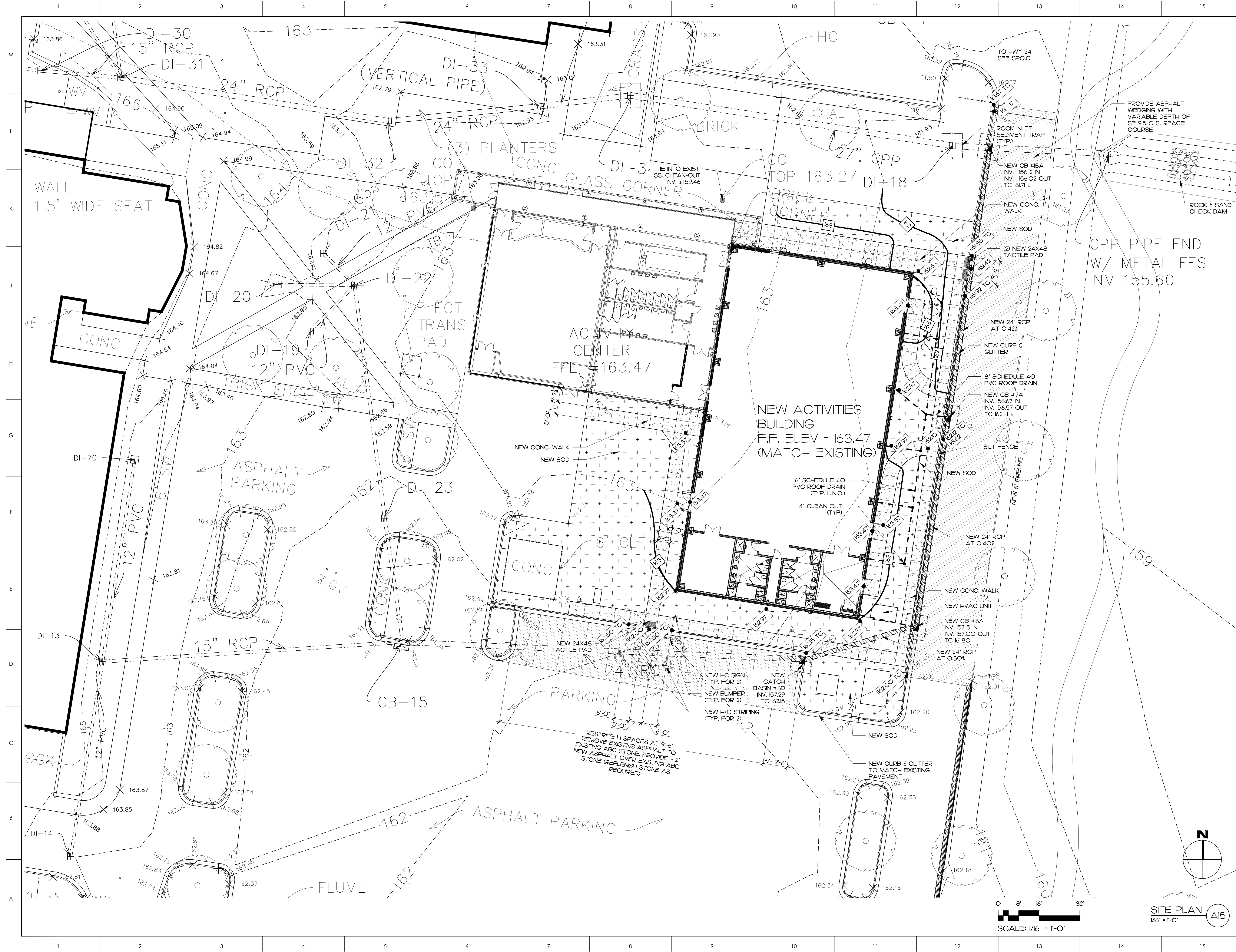
NO	REVISION	DATE

JOHN K. FARKAS
 REGISTERED ARCHITECT
 5322
J K F
 ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
 CLINTON, NC

DRAWING TITLE	DEMOLITION SITE PLAN
SCALE	1/16" = 1'-0"
DRAWN	JRH
CHECKED	JKF
DATE	5-20-2024
PROJECT NO.	2024-06



MATERIALS KEYING LEGEND

DISTURBED AREA = 39,210 SF

GENERAL NOTES

- ALL UNDERGROUND LINES OUTSIDE BUILDING FOOTPRINT, EXCEPT LAWN IRRIGATION LINES, SHALL BE REQUIRED TO HAVE A WARNING TAPE INSTALLED IN THE BACKFILL BETWEEN 6 INCHES TO 24 INCHES BELOW FINISHED GRADE DIRECTLY OVER PIPING.
 - METALLIC LINES SHALL BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3 INCHES WIDE WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
 - NON-METALLIC PIPES, OTHER THAN GAS LINES, SHALL BE IDENTIFIED BY DETECTABLE WARNING TAPE, MINIMUM 2 INCHES WIDE, WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
 - 2018 NC FUEL GAS CODE, SECTION 404.15.3 TRACER: AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NON-METALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT THE END OF THE NON METALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18AWG AND THE INSULATION TYPE SUITABLE FOR DIRECT BURIAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF LEADER LOCATION, SIZING, ETC. SHOWN SCHEMATICALLY ON CIVIL PLAN FOR COORDINATION PURPOSES ONLY.

KEY PLAN

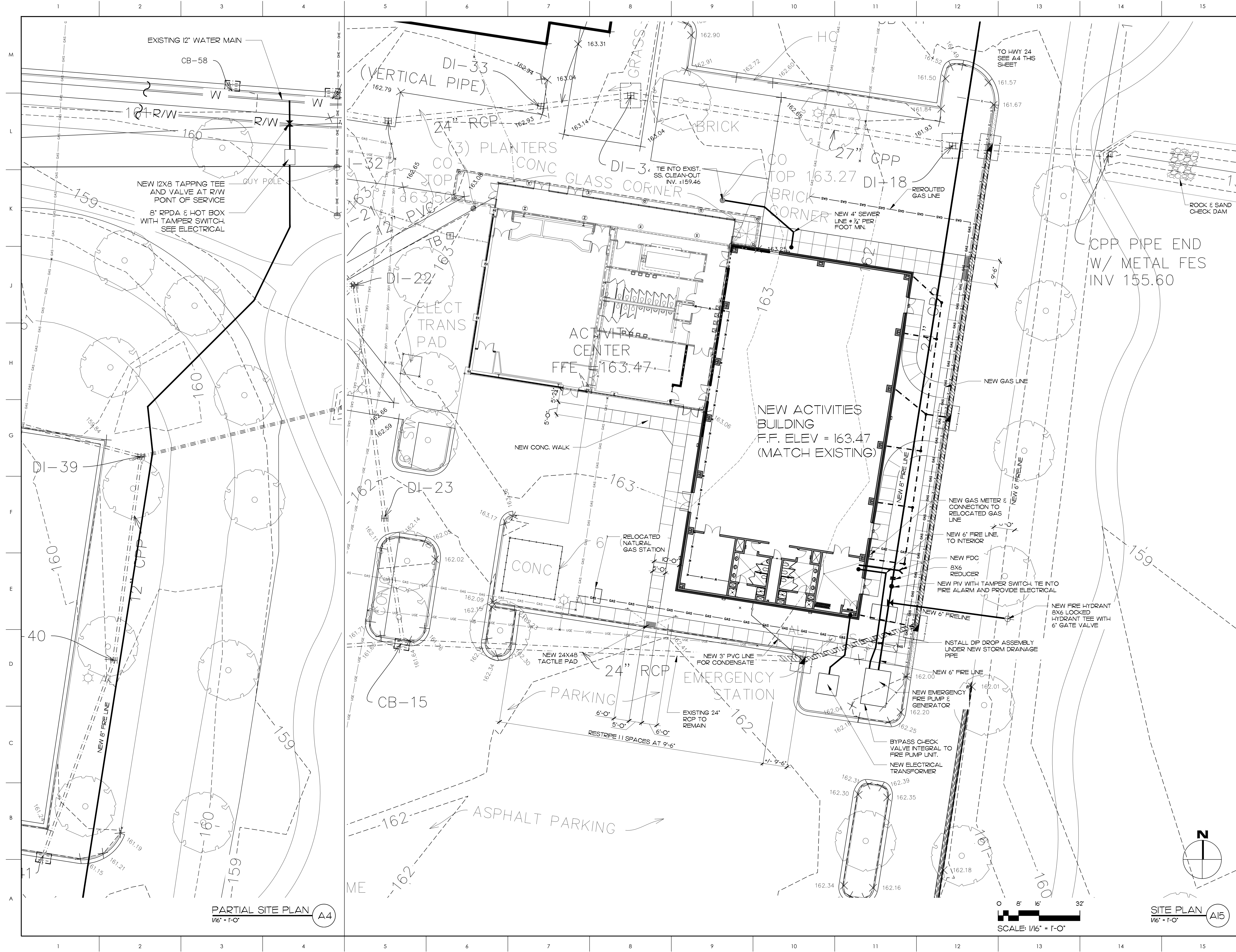
SCO ID NO.17-16813-01C: NCCCS NO.2163

NO	REVISION	DATE

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
SITE PLAN & GRADING

SCALE	1/16" = 1'-0"	DRAWING NO.	ASPII
DRAWN	JRH		
CHECKED	JKF		
DATE	5-20-2024		
PROJECT NO.	2024-06		



PARTIAL SITE PLAN
1/16" = 1'-0" A4

MATERIALS KEYING LEGEND

FIRE FLOW ANALYSIS	
CONSTRUCTION	II-B
GROSS BUILDING AREA	10,000 sq ft
SPRINKLERS	YES
MINIMUM REQUIRED FIRE FLOW (SECTION B105, 2012 NCFC)	1,500 gpm
MINIMUM REQUIRED FLOW DURATION (SECTION B105, 2012 NCFC)	2 hrs
FLOW TEST RESULTS	
PRESSURE HYDRANT	999-39
FLOW HYDRANT	999-38
DATE OF TEST	4/15/2024
STATIC PRESSURE	45 psi
RESIDUAL PRESSURE	35 psi
MEASURES FLOW	950 gpm
FLOW AT 20 PSI (CALCULATED PER NFPA 291)	1639 gpm

GENERAL NOTES

- ALL UNDERGROUND LINES OUTSIDE BUILDING FOOTPRINT, EXCEPT LAWN IRRIGATION LINES, SHALL BE REQUIRED TO HAVE A WARNING TAPE INSTALLED IN THE BACKFILL BETWEEN 6 INCHES TO 24 INCHES BELOW FINISHED GRADE DIRECTLY OVER PIPING.
 - METALLIC LINES SHALL BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3 INCHES WIDE WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
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 - 2018 NC FUEL GAS CODE, SECTION 404.15.3 TRACER: AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NON-METALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT THE END OF THE NON METALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18AWG AND THE INSULATION TYPE SUITABLE FOR DIRECT BURIAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF LEADER LOCATION, SIZING, ETC. SHOWN SCHEMATICALLY ON CIVIL PLAN FOR COORDINATION PURPOSES ONLY.

KEY PLAN

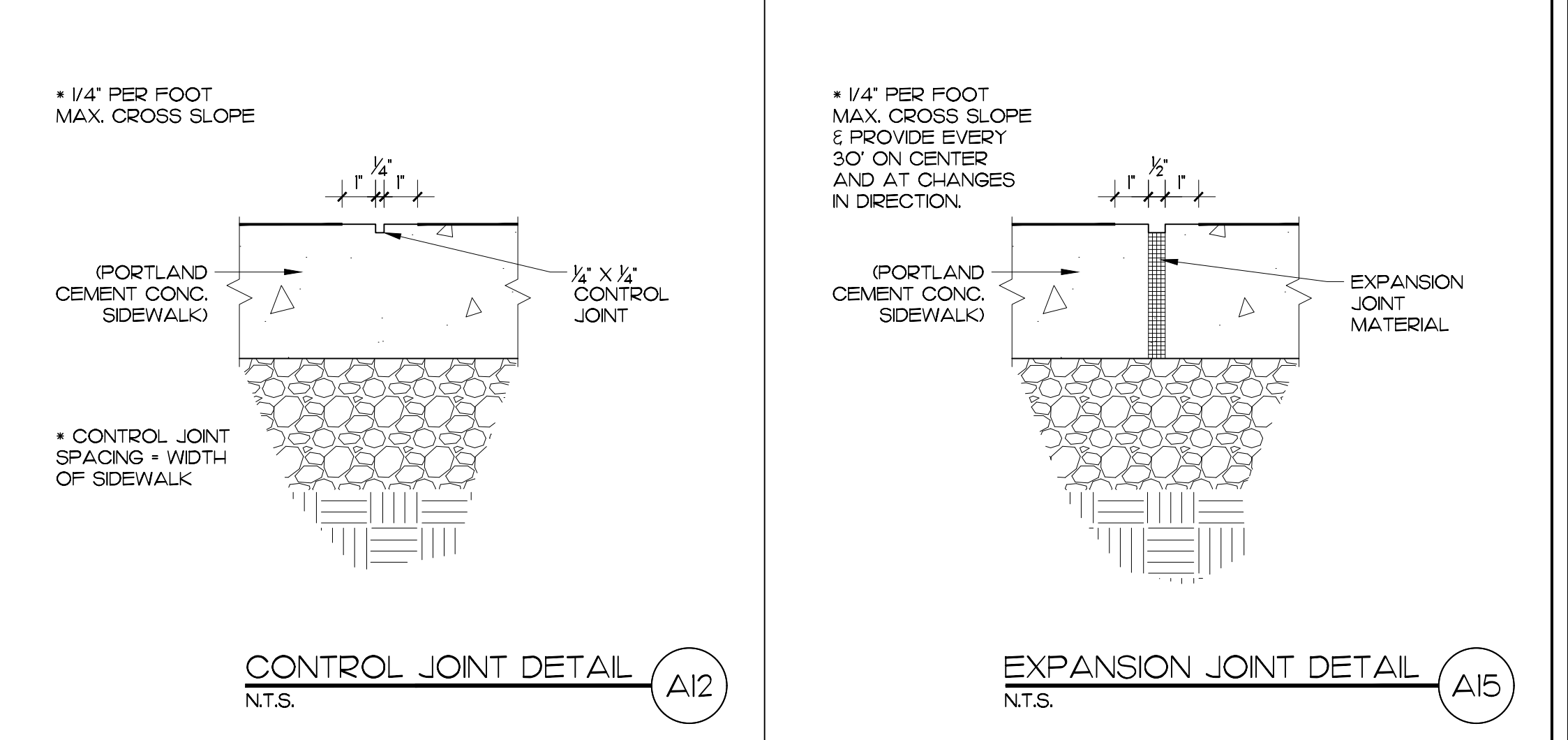
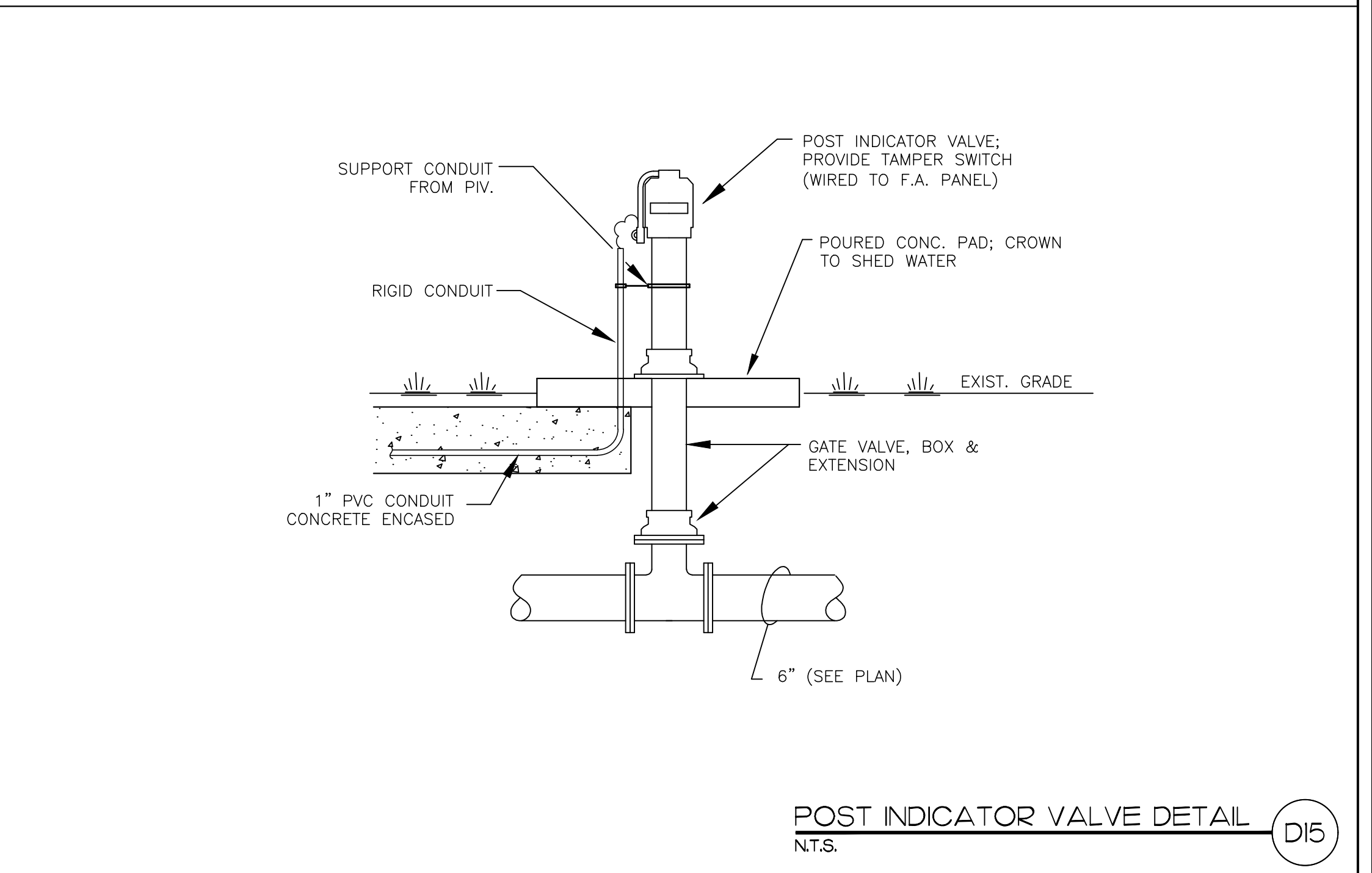
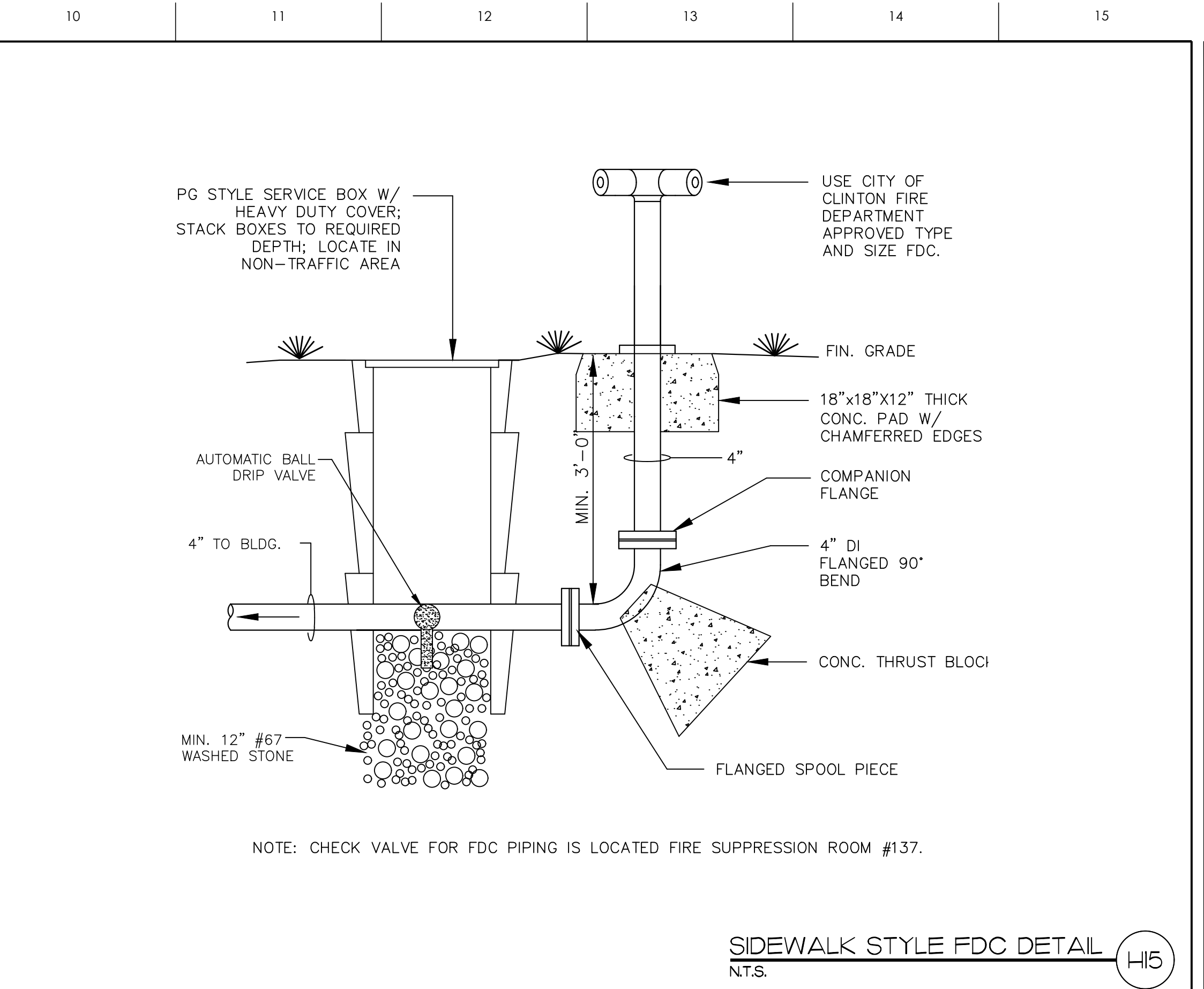
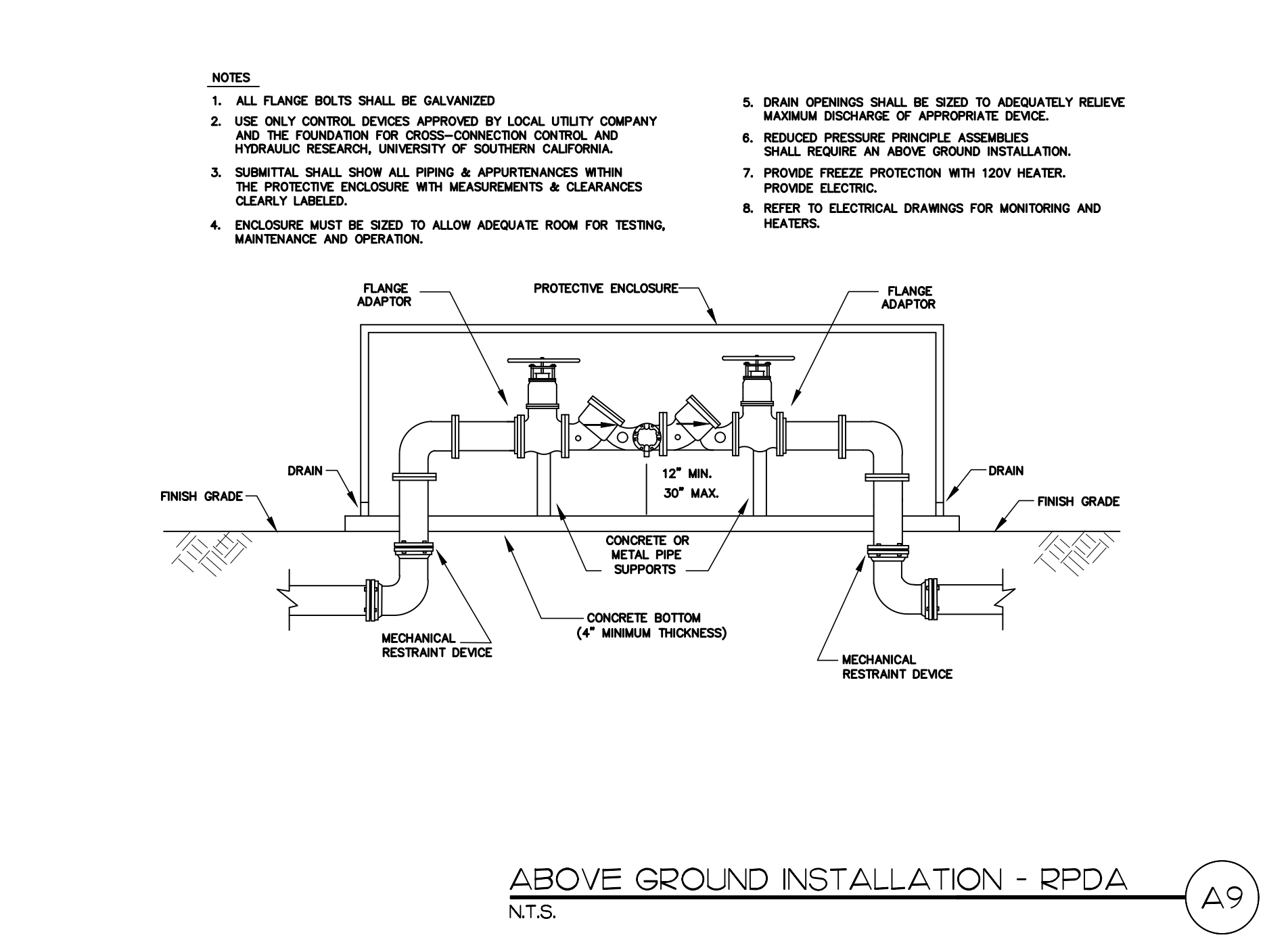
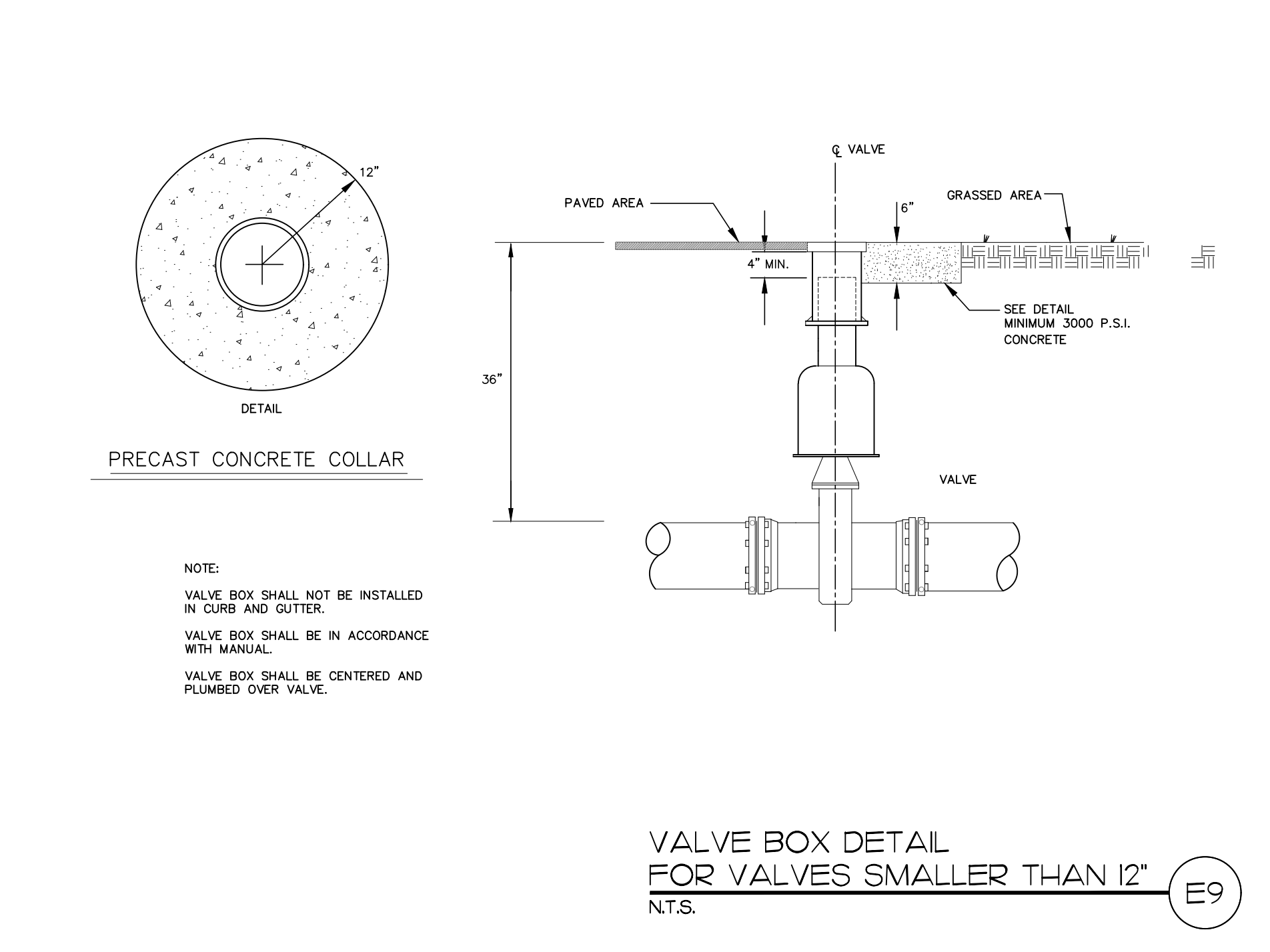
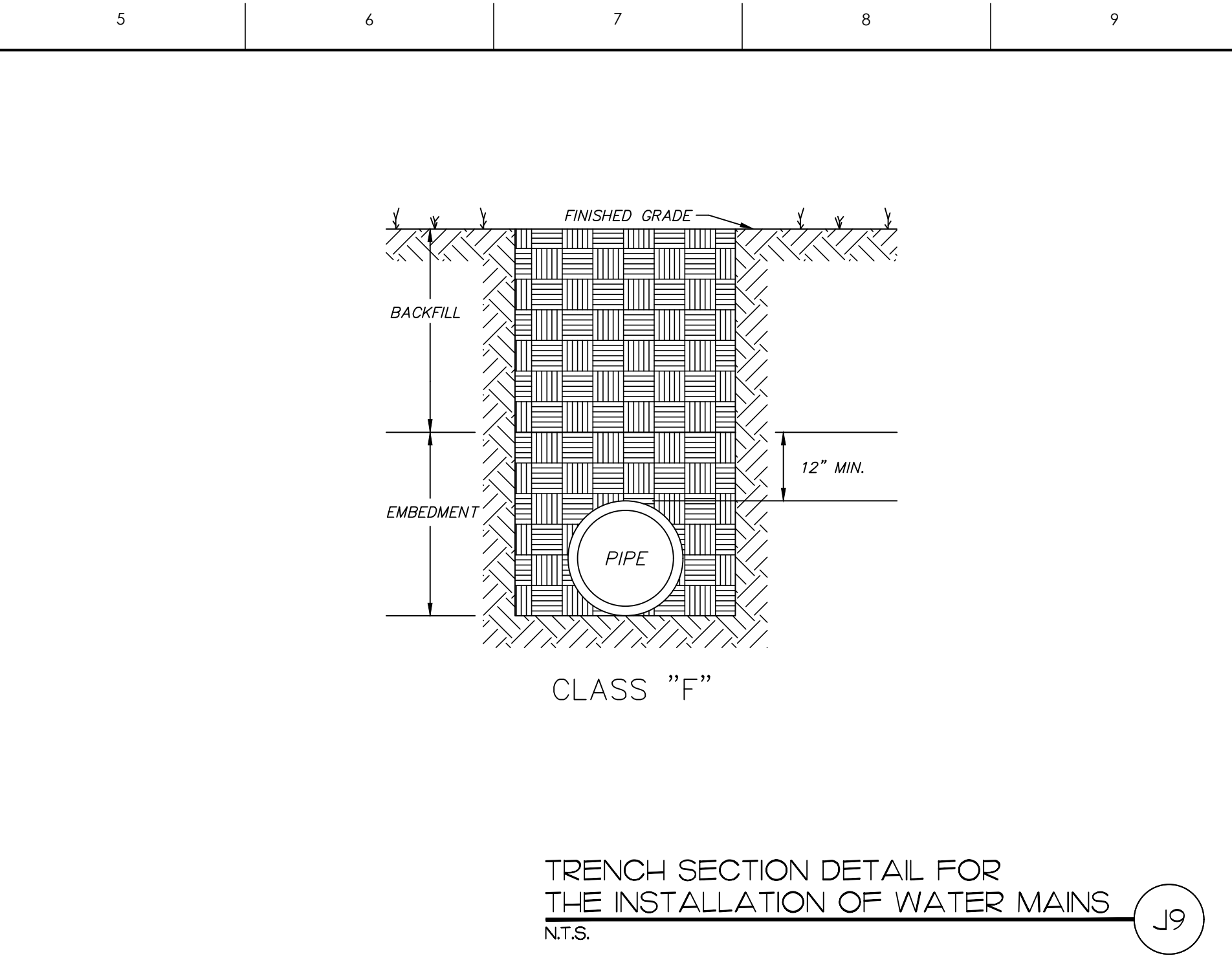
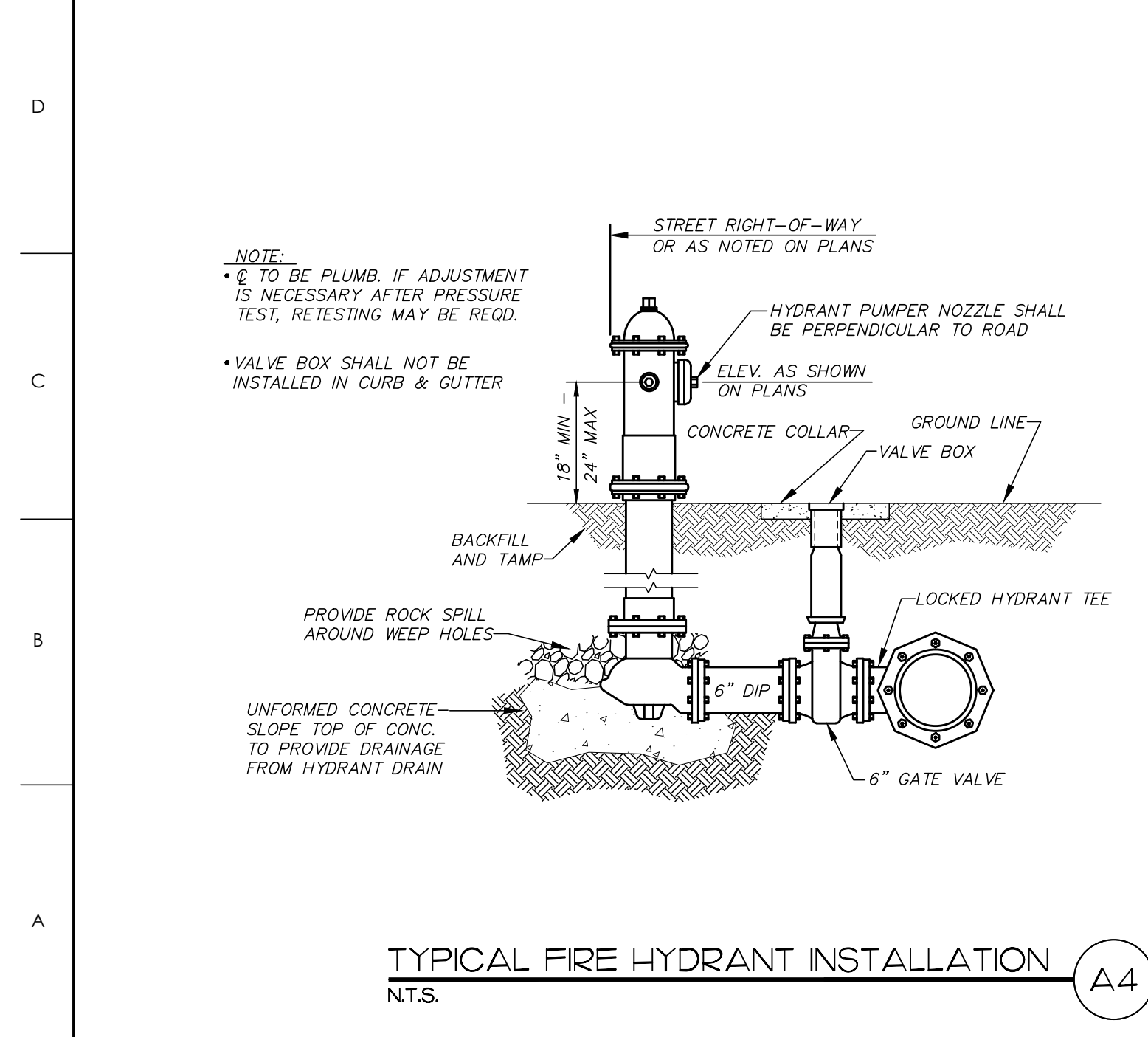
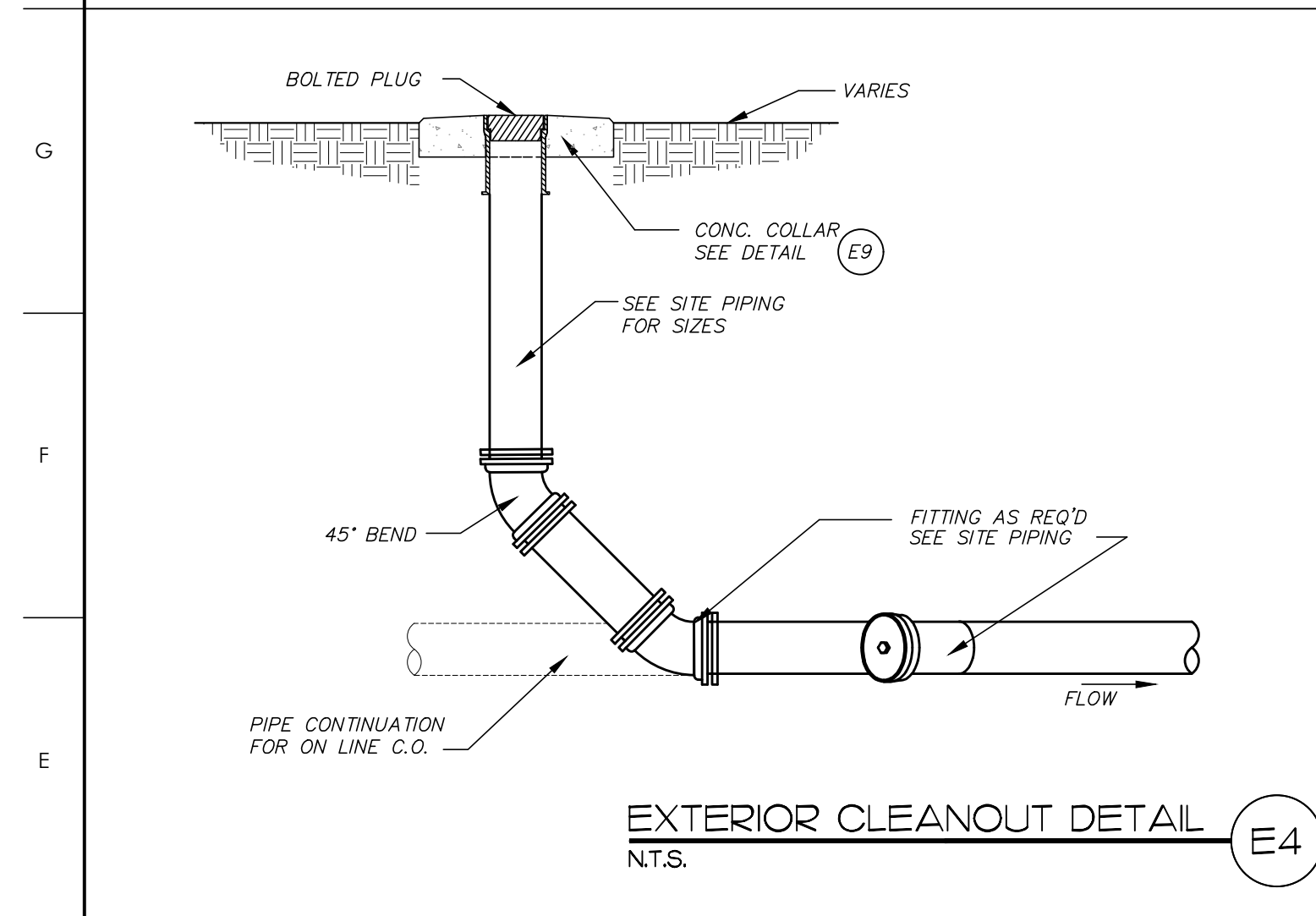
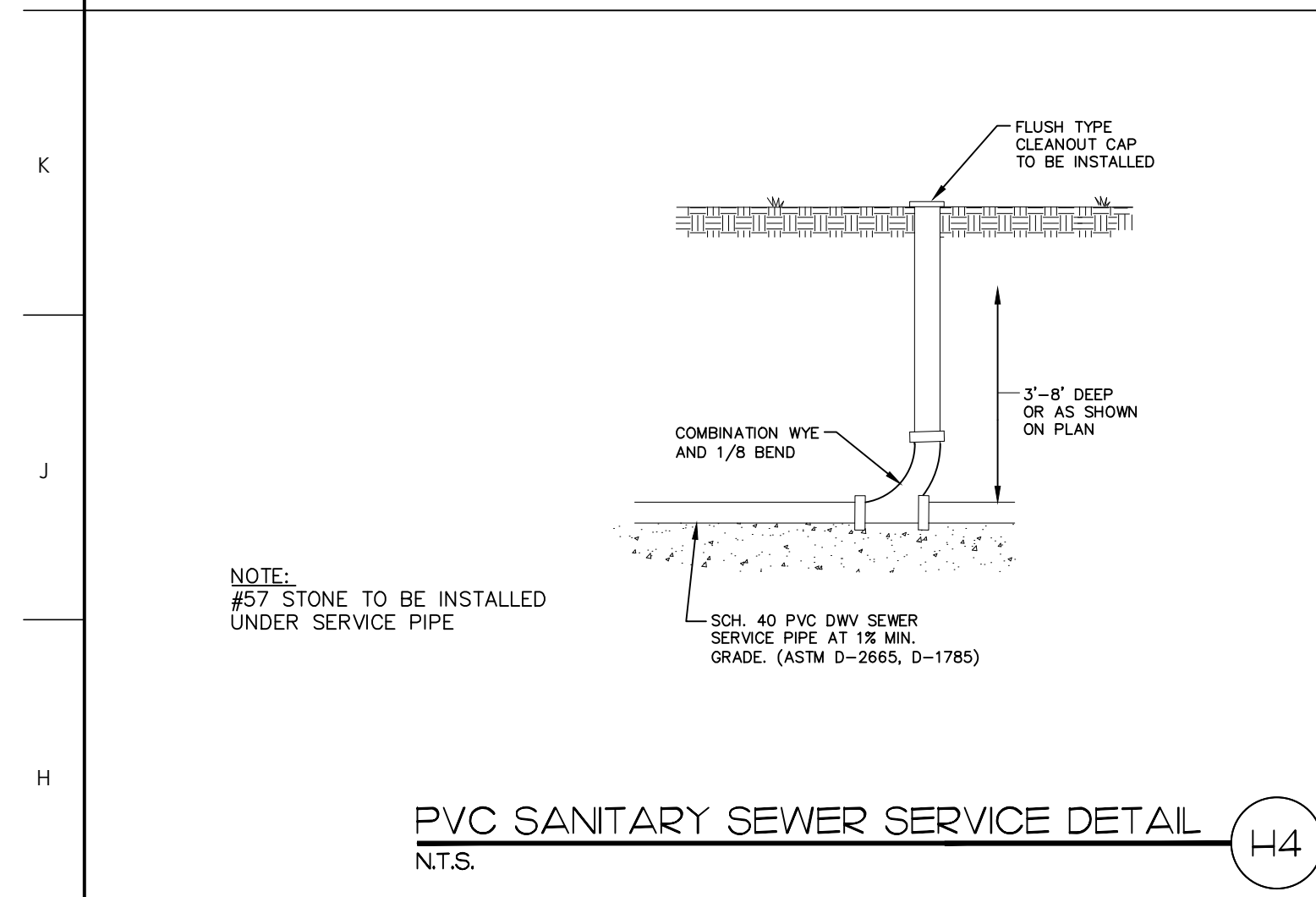
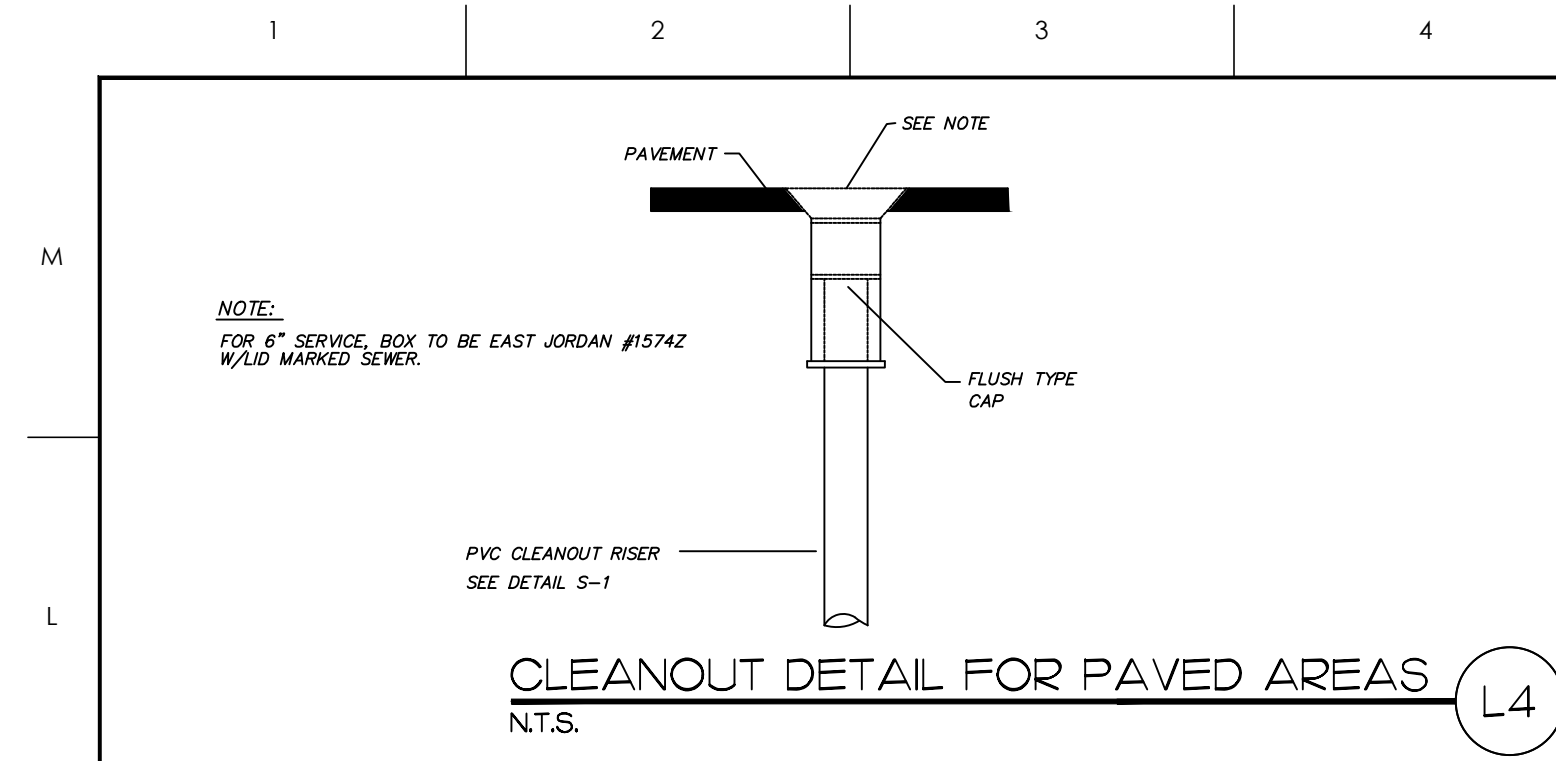
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NO	REVISION	DATE

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
UTILITY SITE PLAN

SCALE	1/16" = 1'-0"	DRAWING NO.	
DRAWN	MCZ		
CHECKED	JKF		
DATE	5-20-2024		
PROJECT NO.	2024-06		



MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

RIVERS & ASSOCIATES, INC. Since 1919
107 East Second Street
Greenville, NC 27858
(252) 752-4135
Engineers
Planners
Surveyors
Landscape Architects

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO.	REVISION	DATE

J K F
ARCHITECTURE

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

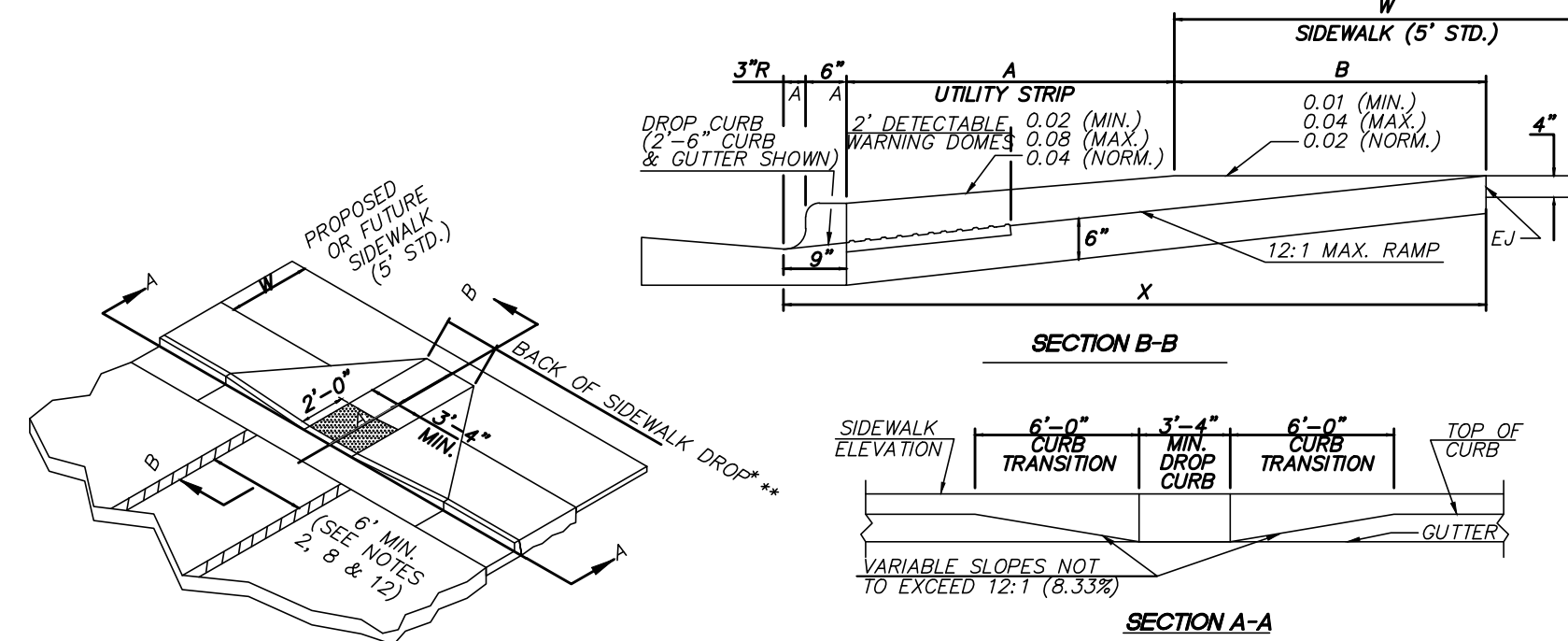
SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
SITE DETAILS

SCALE	AS NOTED	DRAWING NO.
DRAWN	JRH	ASP2.2
CHECKED	JKF	
DATE	5-20-2024	
PROJECT NO.	2024-06	

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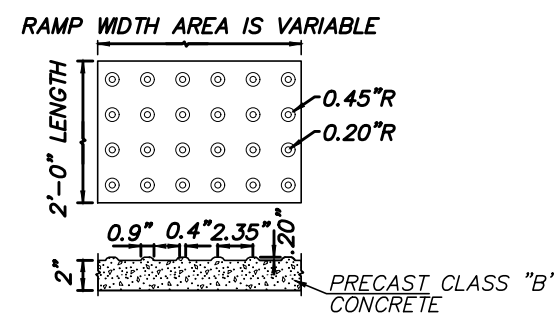
- NOTES:
- CONSTRUCT THE WALKING SURFACE OF THE DETECTABLE DOMES WITH SLIP RESISTANCE AND A 70% CONTRASTING COLOR TO THE SIDEWALK.
 - CROSSWALK WIDTHS AND CONFIGURATION VARY BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
 - PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
 - DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
 - CONSTRUCT WHEELCHAIR RAMPS 40° (3'-4") OR GREATER FOR DUAL RAMPS.
 - USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
 - PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STD. DWG. 848.01.
 - PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADIUS WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED.
 - COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
 - CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 6 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.
 - USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.
 - PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.
 - OTHER DETECTABLE WARNING MATERIALS MAY BE CONSIDERED FROM THAT SHOWN, BUT REQUIRE CITY ENGINEER'S WRITTEN APPROVAL PRIOR TO INSTALLATION.
 - FOR ALL ROADS WITH RADII 25' OR LESS, ONLY ONE WHEELCHAIR RAMP IS REQUIRED. WHEELCHAIR RAMPS TO BE PLACED AS PER TRAFFIC DESIGN STANDARDS TO INSURE PEDESTRIANS ENTER & EXIT WITHOUT ENTERING TRAVEL LANES.



W	A	W+A+9'	X	B
5'	0.0'	5.8'	5.8'	5.0'
6'	0.0'	6.8'	6.8'	6.0'
7'	0.0'	7.8'	7.8'	6.5'
8'	0.0'	8.8'	7.3'	6.5'
5'	1.5'	7.3'	7.5'	5.2'
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

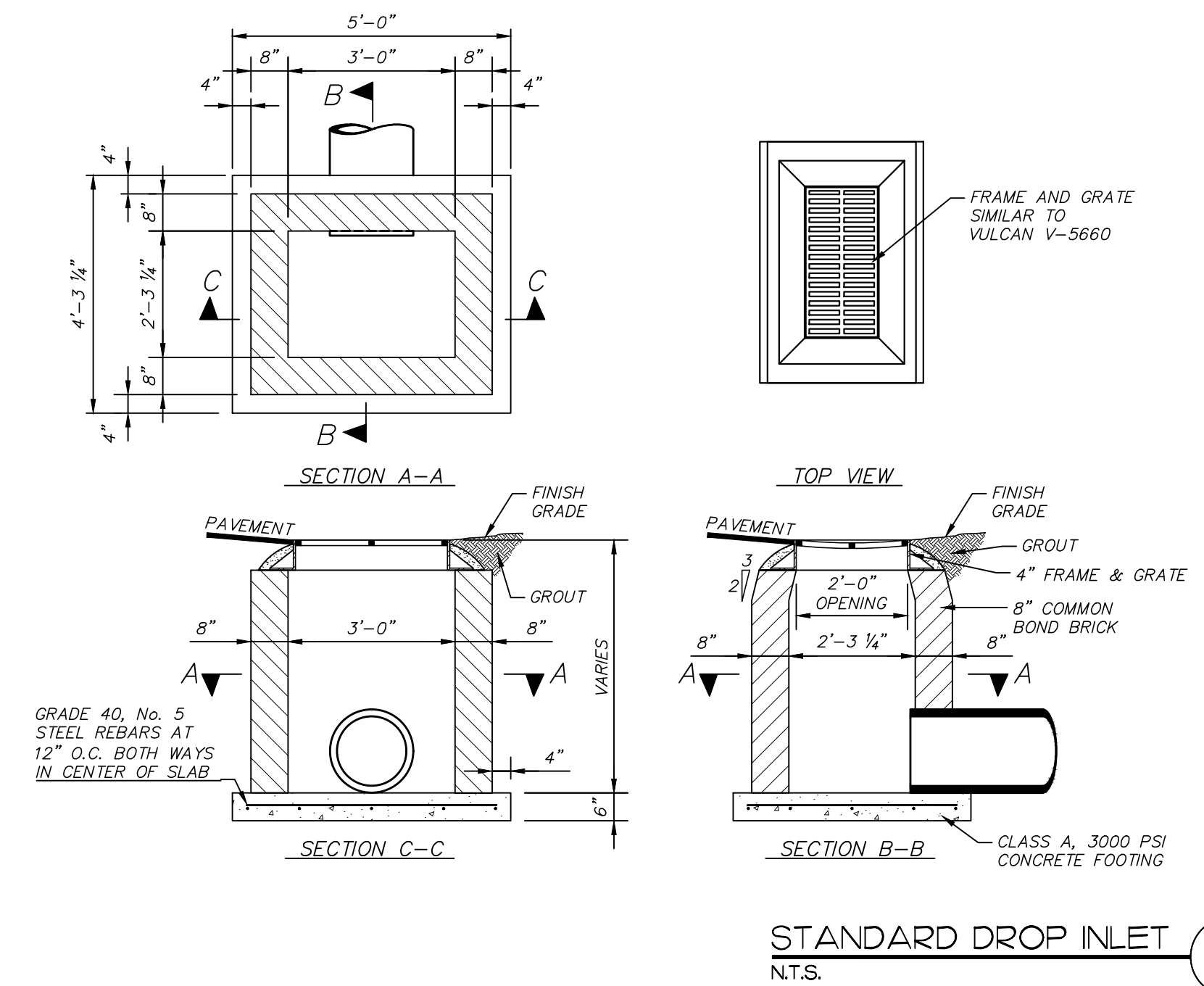
$B = X - (A + 9')$
 $B =$ DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
 * BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
 ** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.
 *** THICKNESS MAY VARY FOR APPROVED EQUAL PRECAST MATERIAL.

- DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
- THE RAMP MAY BE YELLOW IN COLOR OR ANY COLOR WITH A 70% CONTRAST RATIO.

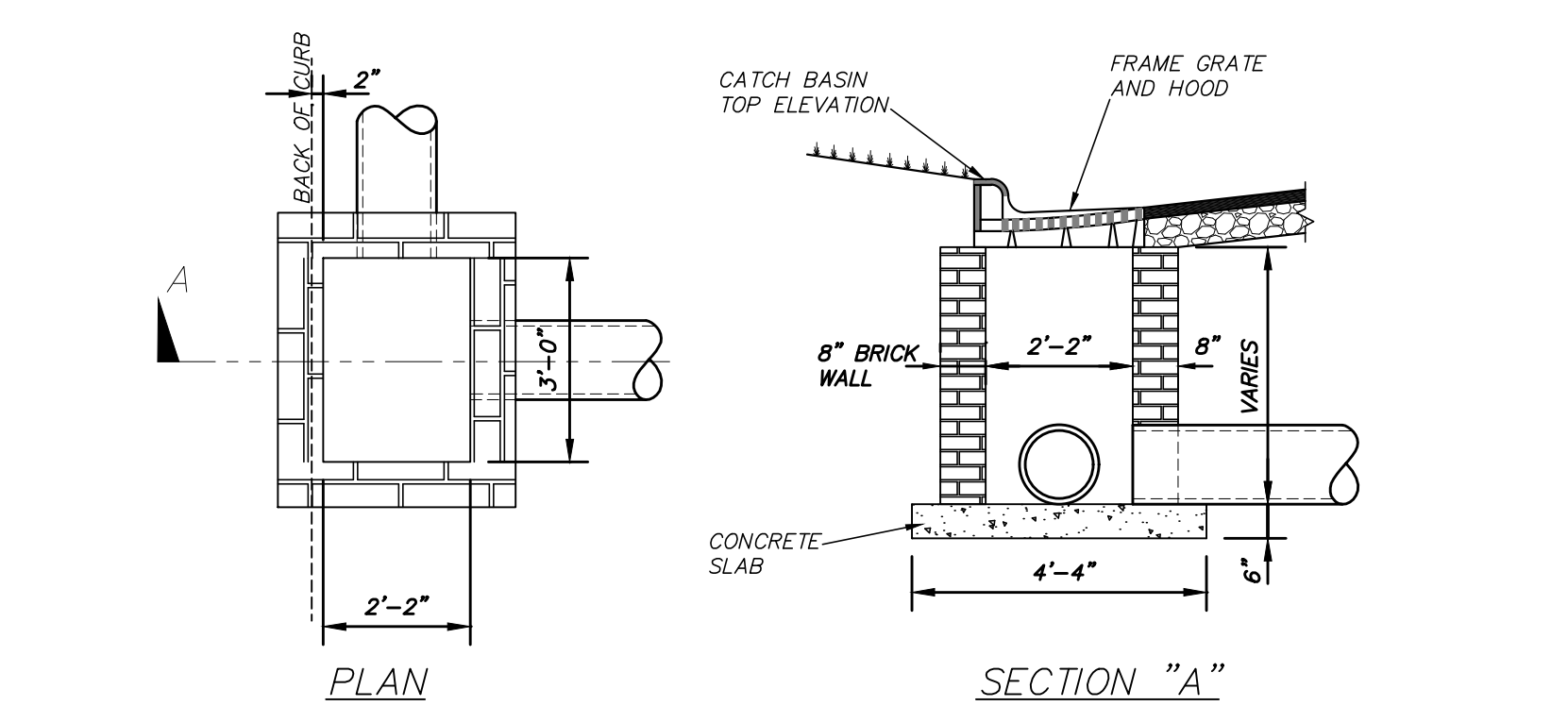


DETECTABLE WARNING DOMES

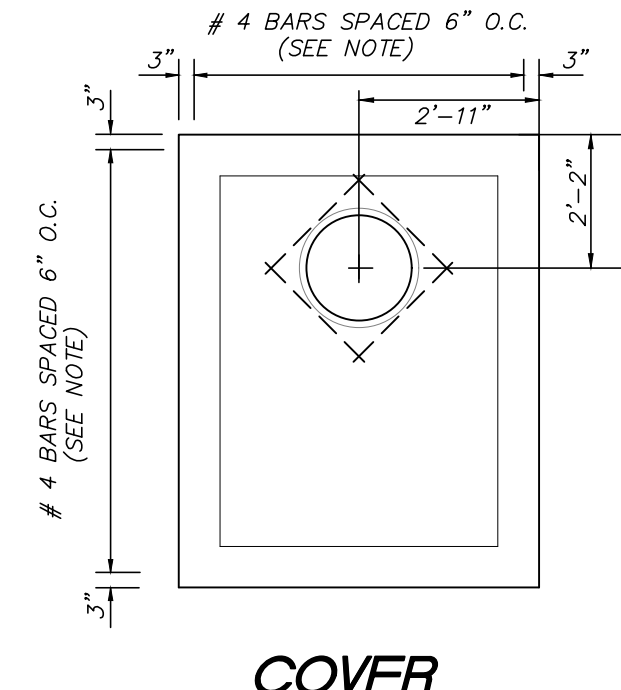
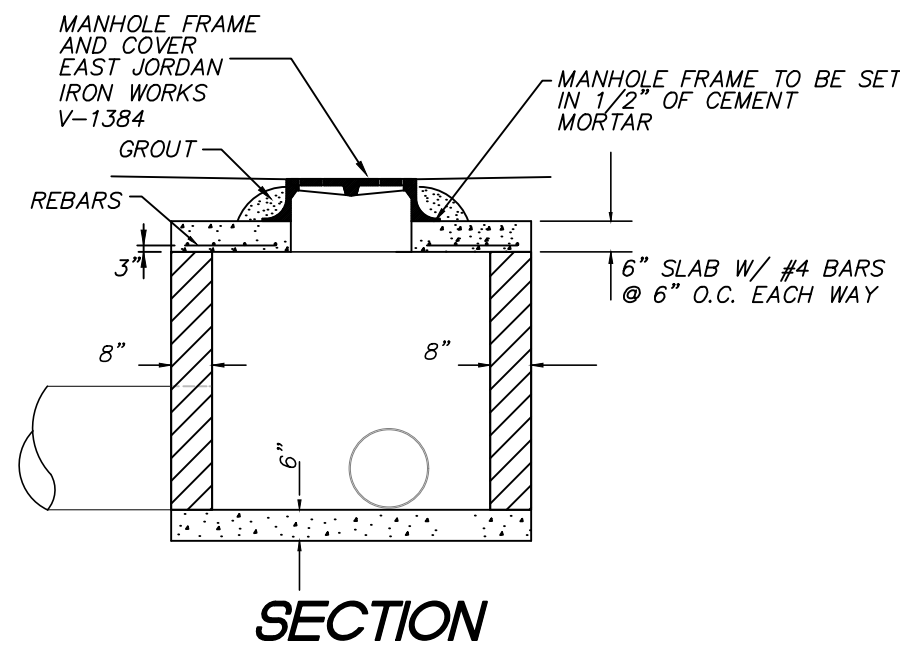
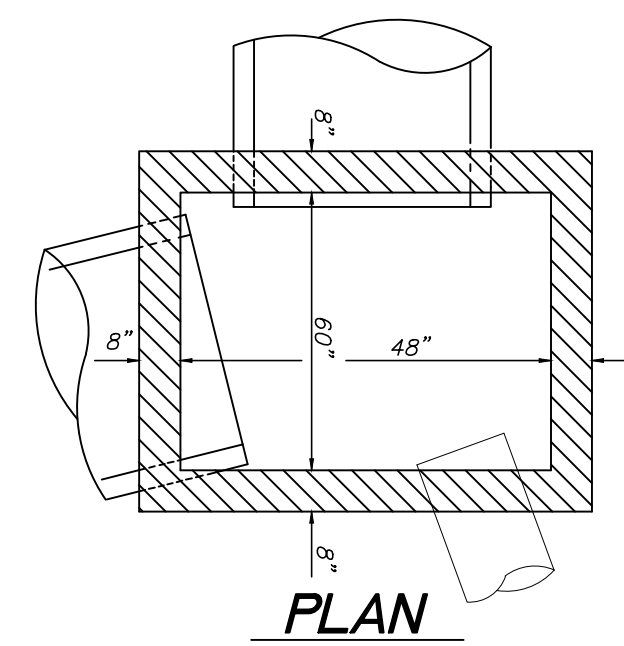
HANDICAP RAMP DETAIL F10
N.T.S.



STANDARD DROP INLET J15
N.T.S.



STANDARD CATCH BASIN F15
N.T.S.



- GENERAL NOTES:
- USE STANDARD OR JUMBO BRICK FOR WALL CONSTRUCTION. SOLID CONCRETE BRICK OR BLOCK ARE OPTIONAL WALL CONSTRUCTION MATERIAL.
 - PRECAST UNITS MADE OF CLASS "AA" CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION. SUBMIT DESIGN OF PRECAST UNITS FOR APPROVAL PRIOR TO CONSTRUCTION.
 - INSTALL MANHOLE IN POSITION AS DIRECTED BY THE ENGINEER. CUT OR BEND ALL REBAR CROSSING THIS OPENING TO ALLOW 2" MINIMUM CONCRETE COVERAGE. ENCLOSE THE OPENING WITH 8 "A" BARS TIED TO THE REBAR MAT AND SET SO A MINIMUM OF 3" CONCRETE COVER IS ATTAINED. REFERENCE NCDOT STD. NO. 840.54 FOR MANHOLE INFORMATION.
 - PROVIDE JUNCTION BOXES WITH MANHOLES OVER 3'-6" IN DEPTH WITH STEPS PLACED ON 12" CENTERS. REFERENCE NCDOT STD. NO. 840.66.
 - SPACE DOWEL "C" BARS AT A MAXIMUM OF 12" CENTERS.
 - MAXIMUM DEPTH OF THIS UNIT AS SHOWN IS 12'.
 - CONSTRUCT THE JUNCTION BOX IN ACCORDANCE WITH SECTIONS 830, 832, 834 AND 840 OF THE NCDOT STANDARD SPECIFICATIONS.

TYP. STORM MANHOLE DETAILS A15
N.T.S.

MATERIALS KEYING LEGEND

FRAME AND GRATE SIMILAR TO VULCAN V-5660
FINISH GRADE
GROUT
4" FRAME & GRATE
8" COMMON BOND BRICK
8" BOND BRICK
CLASS A, 3000 PSI CONCRETE FOOTING

GENERAL NOTES

NO	REVISION	DATE

KEY PLAN

Rivers & Associates, Inc.
 Since 1919
 107 East Second Street
 Greenville, NC 27858
 (252) 752-4135
 Engineers
 Planners
 Surveyors
 Landscape Architects

SCO ID NO. 17-16813-01C; NCCCS NO. 2163

NO	REVISION	DATE

J K F
 ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE

SITE DETAILS

SCALE AS NOTED

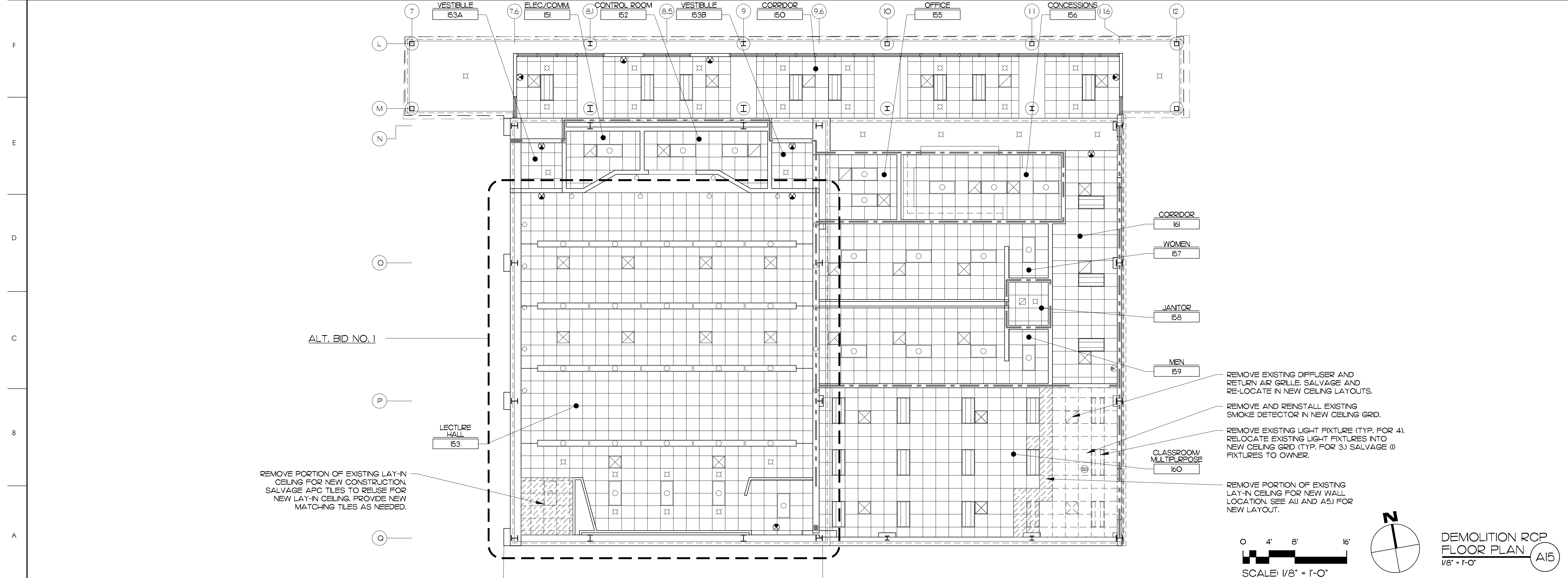
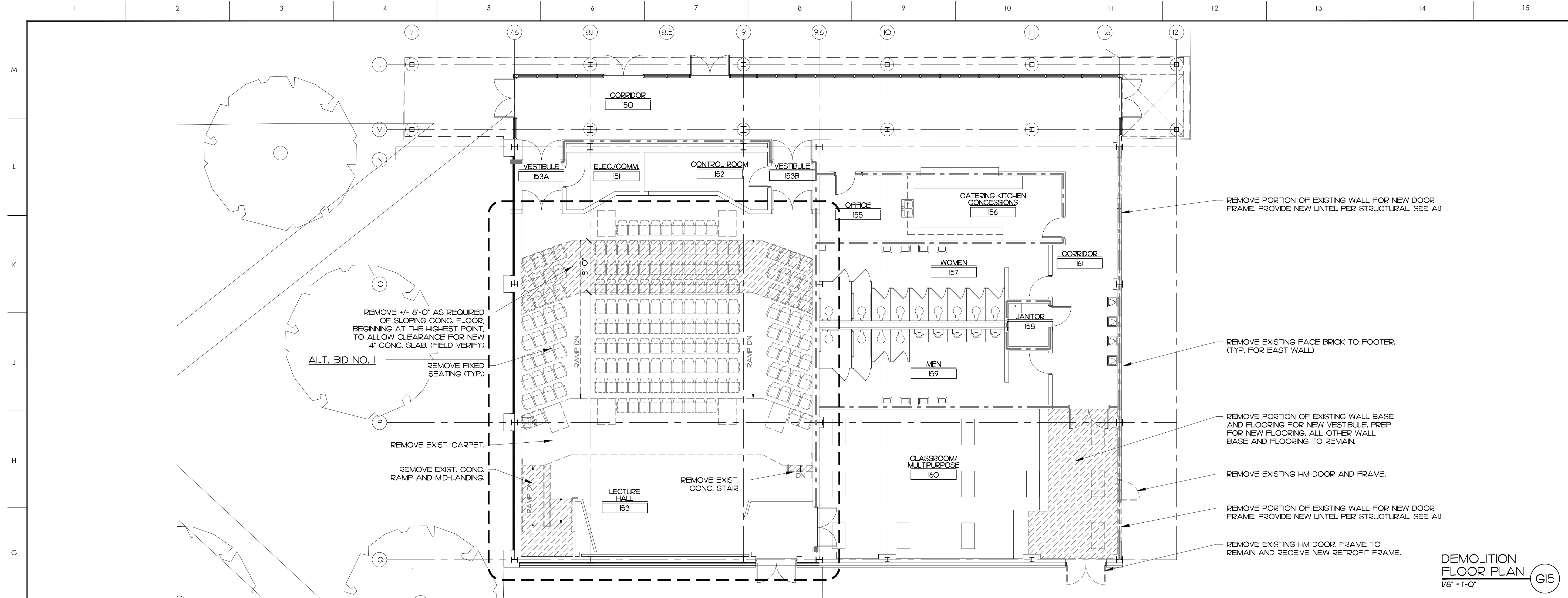
DRAWN JRH

CHECKED JKF

DATE 5-20-2024

PROJECT NO. 2024-06

ASP2.3



MATERIALS KEYING LEGEND



SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

JOHN K. FARKAS
REGISTERED ARCHITECT
6/14/2024
5322
JOHN K. FARKAS
GREENVILLE, NC

JKF
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DEMOLITION PLAN

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

DRAWING NO. A15

DRAWN: MCZ

CHECKED: JKF

DATE: 5-20-2024

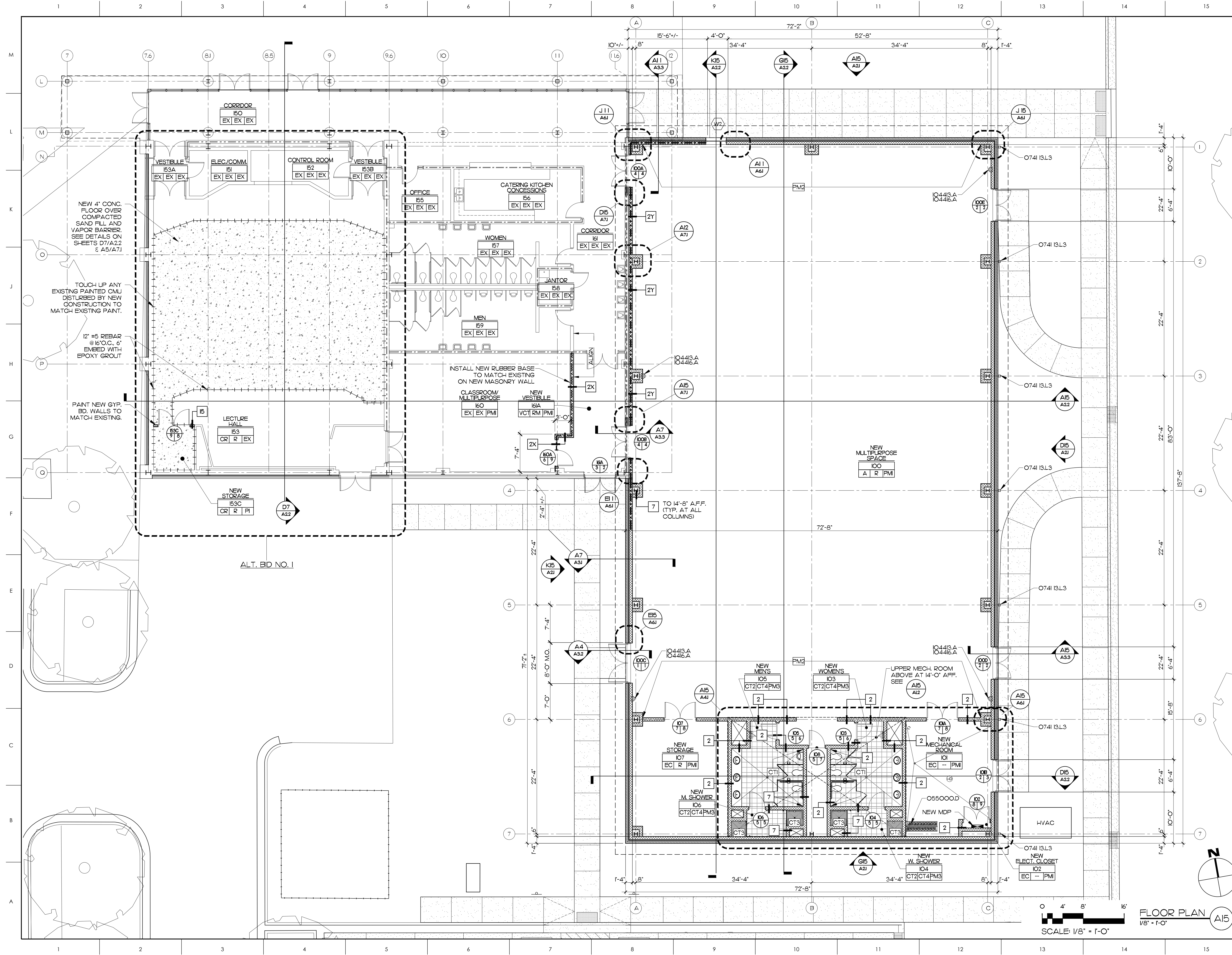
PROJECT NO.: 2024-06

SCALE: 0 4' 8' 16'

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

DEMOLITION RCP FLOOR PLAN A15

1/8" = 1'-0"



MATERIALS KEYING LEGEND

- O55000D - ALTERNATING TREAD STAIR ASSEMBLY
- O741 I3.L3 - METAL DOWNSPOUT, 5X5"
- O8919.A - FIXED, EXTRUDED ALUMINUM LOUVER (SEE MECHANICAL)
- IO4413.A - SEM-RECESSED FIRE EXTINGUISHER CABINET
- IO4416.A - FIRE EXTINGUISHER

GENERAL NOTES

- EXISTING 1-HOUR FIRE BARRIER
- EXISTING 2-HOUR FIRE BARRIER
- - - NEW 1-HOUR FIRE PARTITION
- - - NEW 2-HOUR FIRE WALL

P4 TYPICAL PAINT FOR HOLLOW METAL FRAMES AND PAINTED GYP. BULK-HEADS

KEY PLAN

SCO ID NO. 17-16813-01C; NCCCS NO. 2163

NO	REVISION	DATE

SEAL

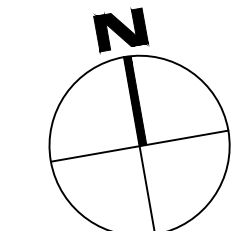
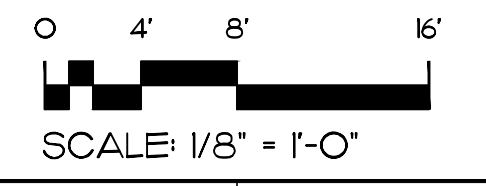
JKF
ARCHITECTURE

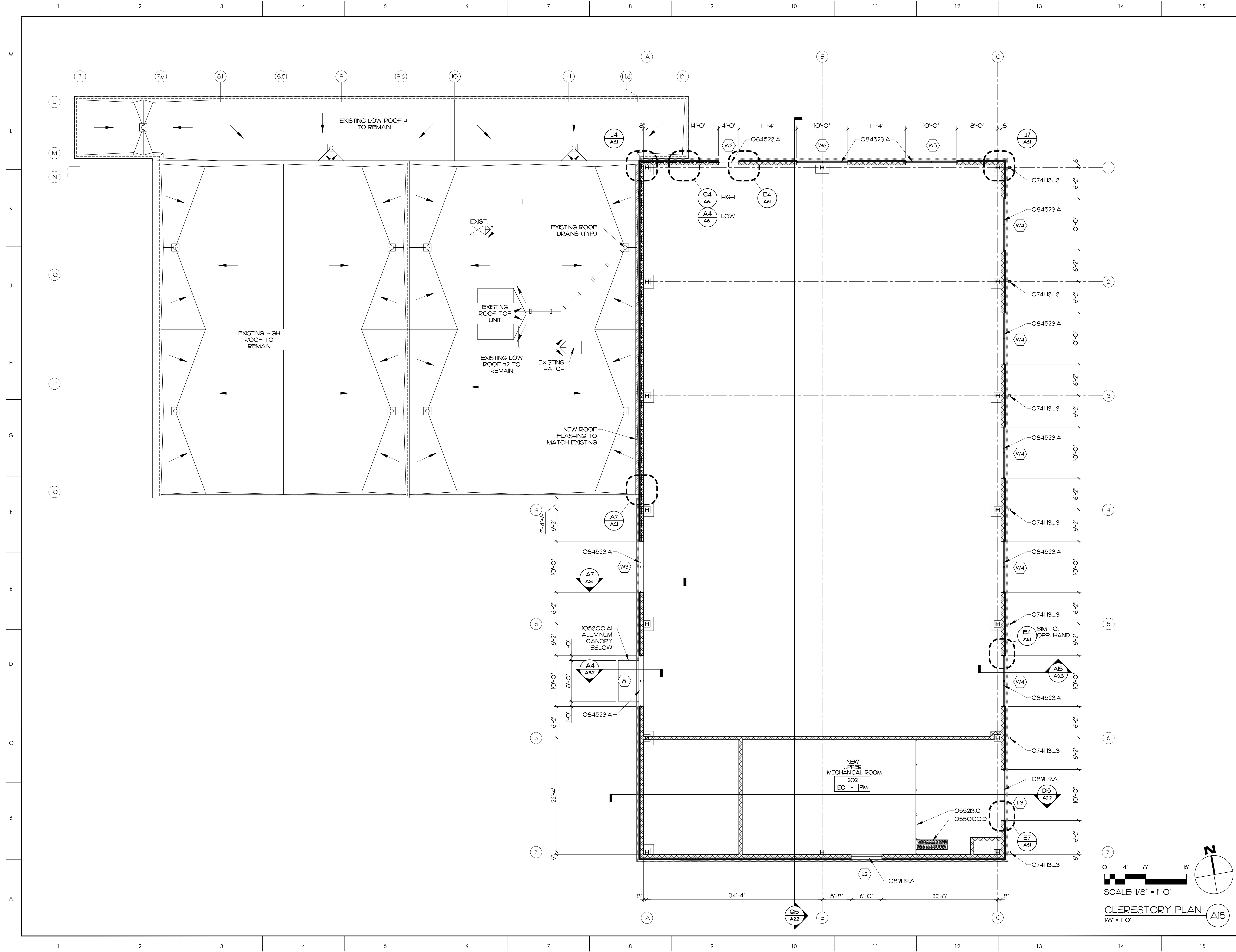
625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
FLOOR PLAN

SCALE 1/8" = 1'-0"	DRAWING NO. A15
DRAWN JRH, BTP	
CHECKED JKF	
DATE 5-20-2024	
PROJECT NO. 2024-06	





MATERIALS KEYING LEGEND

- O55000.D - ALTERNATING TREAD STAIR ASSEMBLY
- O55213.C - STEEL GUARDRAIL ASSEMBLY, 42" HIGH, PAINTED
- O741 I3.L3 - METAL DOWNSPOUT, 5X5'
- O84523.A - FIBERGLASS-SANDWICH PANEL ASSEMBLY
- O891 I9.A - FIXED, EXTRUDED-ALUMINUM LOUVER (SEE MECHANICAL)
- 105300.AI - ALUMINUM CANOPY ASSEMBLY

GENERAL NOTES

1. EXISTING TPO ROOF WARRANTED BY CARLISLE #CMDI 143834, THRU 4-1-2029.

KEY PLAN

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

JOHN K. FARKAS
REGISTERED ARCHITECT
NO. 1142824
STATE OF NORTH CAROLINA

JKF

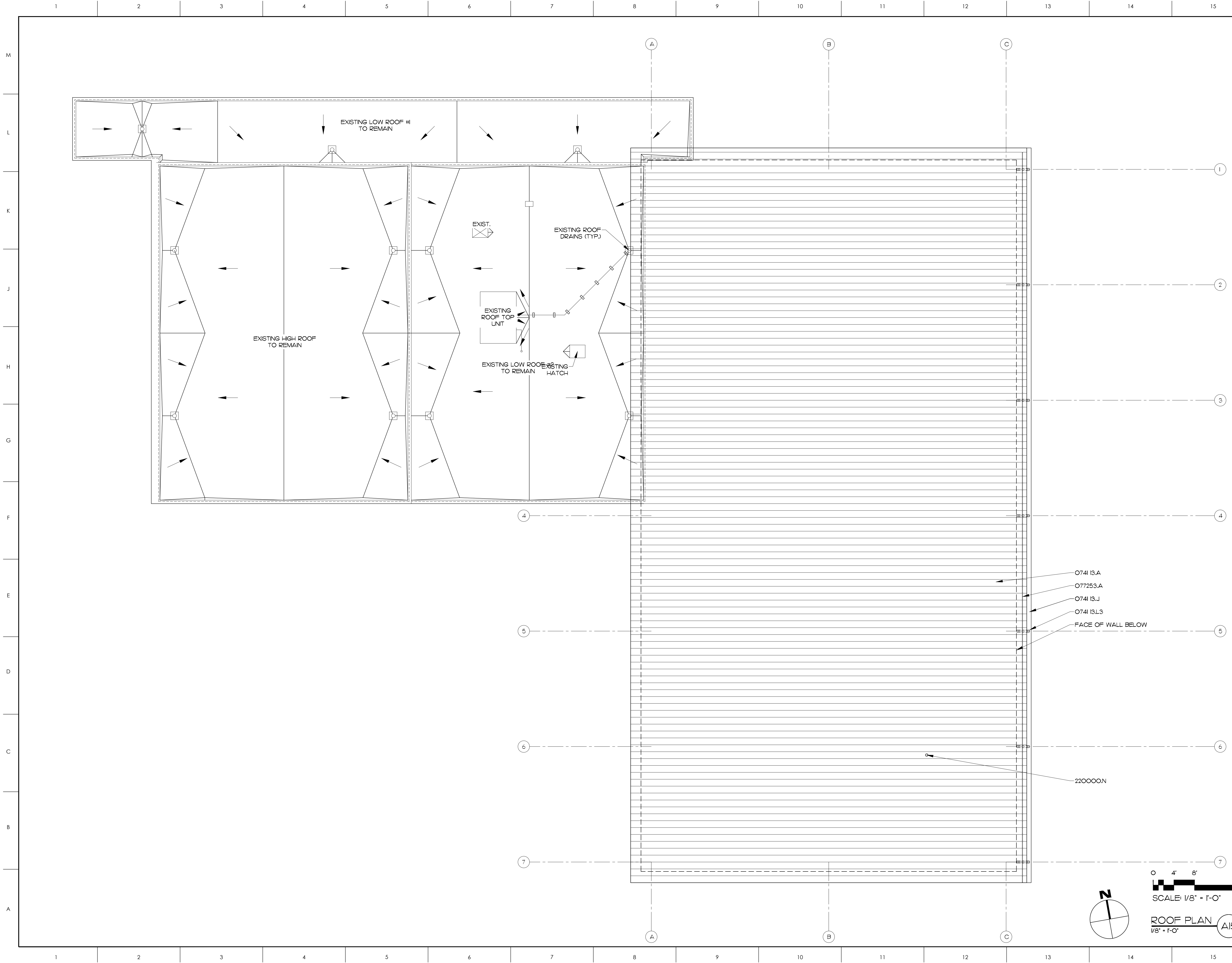
ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1068

**SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC**

CLERESTORY PLAN

SCALE	1/8" = 1'-0"	DRAWING NO.	A1.2
DRAWN	JRH		
CHECKED	JKF		
DATE	5-20-2024		
PROJECT NO.	2024-06		



MATERIALS KEYING LEGEND

O741 I3.A	- METAL ROOF, STANDING SEAM SYSTEM
O741 I3.J	- METAL GUTTER
O741 I3.L3	- METAL DOWNSPOUT, 5X5"
O77253.A	- SNOW GUARD
220000N	- PIPE VENT

GENERAL NOTES

1 EXISTING TPO ROOF WARRANTED BY CARLISLE #CNDI143634

KEY PLAN

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

SEAL

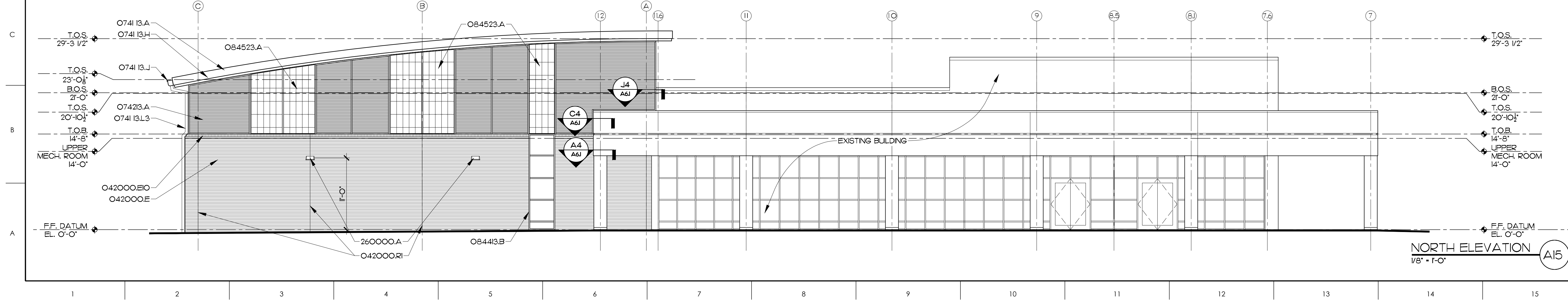
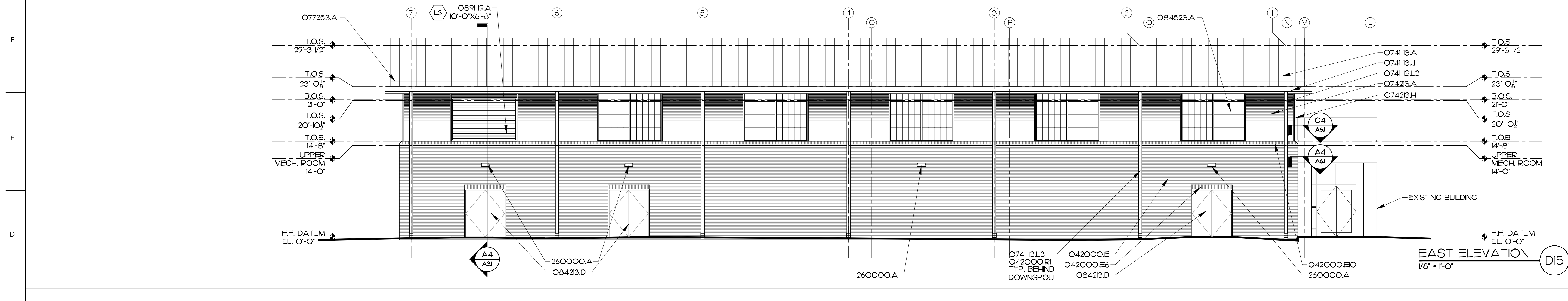
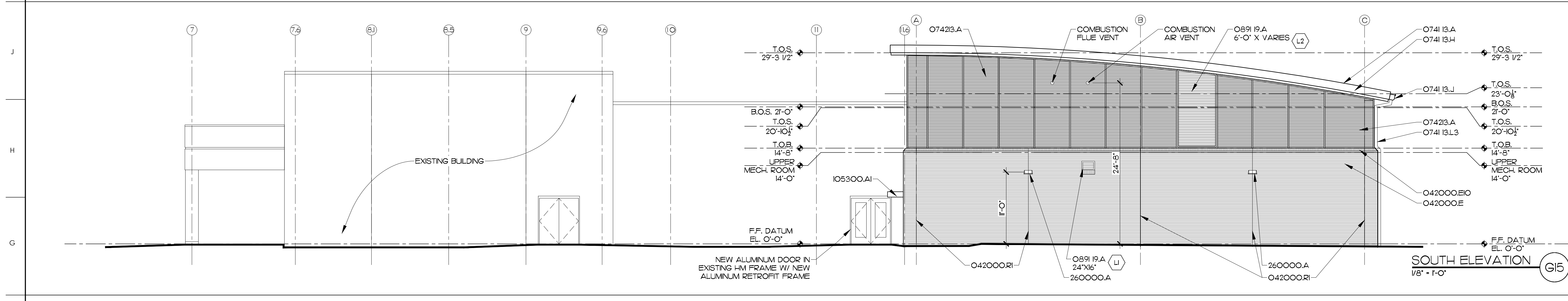
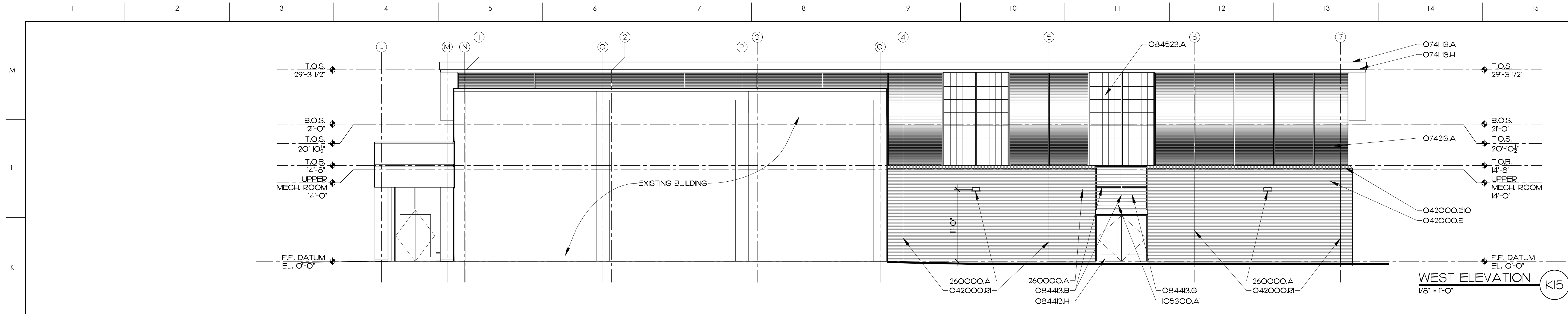
JKF
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
ROOF PLAN

SCALE	1/8" = 1'-0"	DRAWING NO.	A1.3
DRAWN	MCZ		
CHECKED	JKF		
DATE	5-20-2024		
PROJECT NO.	2024-06		



- MATERIALS KEYING LEGEND**
- 042000.E - FACE BRICK
 - 042000.EIO - FACE BRICK, SOLDER COURSE SILL, SPECIAL SHAPE
 - 042000.E6 - FACE BRICK, SHELF BRICK, SOLDER COURSE
 - 042000.RI - CONTROL JOINT
 - 0741 13.A - METAL ROOF, STANDING SEAM SYSTEM
 - 0741 13.H - METAL FASCIA
 - 0741 13.J - METAL GUTTER
 - 0741 13.L.3 - METAL DOWNSPOUT, 5X5"
 - 07423.A - METAL WALL PANEL
 - 07423.H - METAL FLASHING
 - 077253.A - SNOW GUARDS
 - 08423.D - ALUMINUM FRP DOOR
 - 08443.B - ALUMINUM CURTAIN WALL FRAMING
 - 08443.G - HORIZONTAL SUNSHADE SYSTEM
 - 08443.H - ALUMINUM STILE AND RAIL DOOR
 - 084523.A - FIBERGLASS-SANDWICH PANEL ASSEMBLY
 - 0899.A - FIXED, EXTRUDED-ALUMINUM LOUVER (SEE MECHANICAL)
 - 105300.AI - ALUMINUM CANOPY ASSEMBLY, CANTILEVERED
 - 260000.A - EXTERIOR LIGHT FIXTURE

GENERAL NOTES

SCO ID NO. 17-16813-01C; NCCCS NO. 2163

KEY PLAN

NO	REVISION	DATE

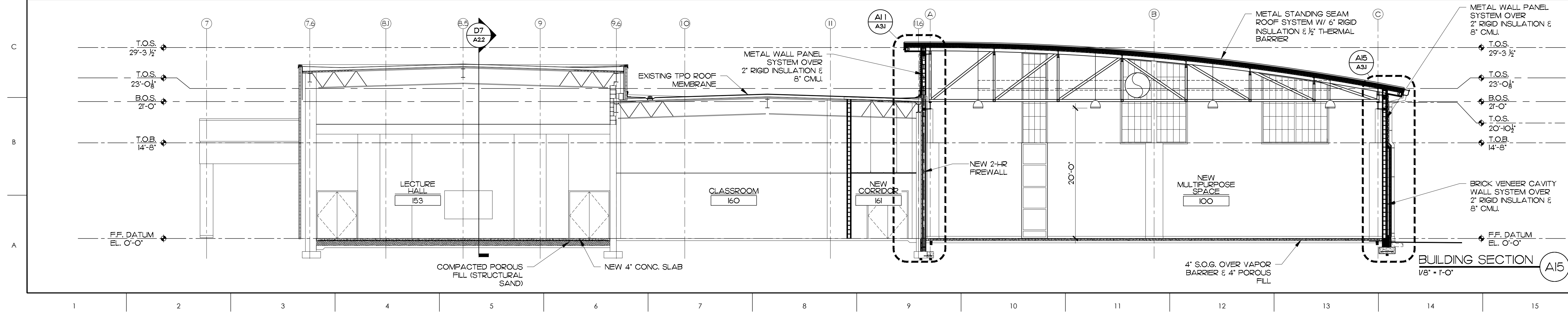
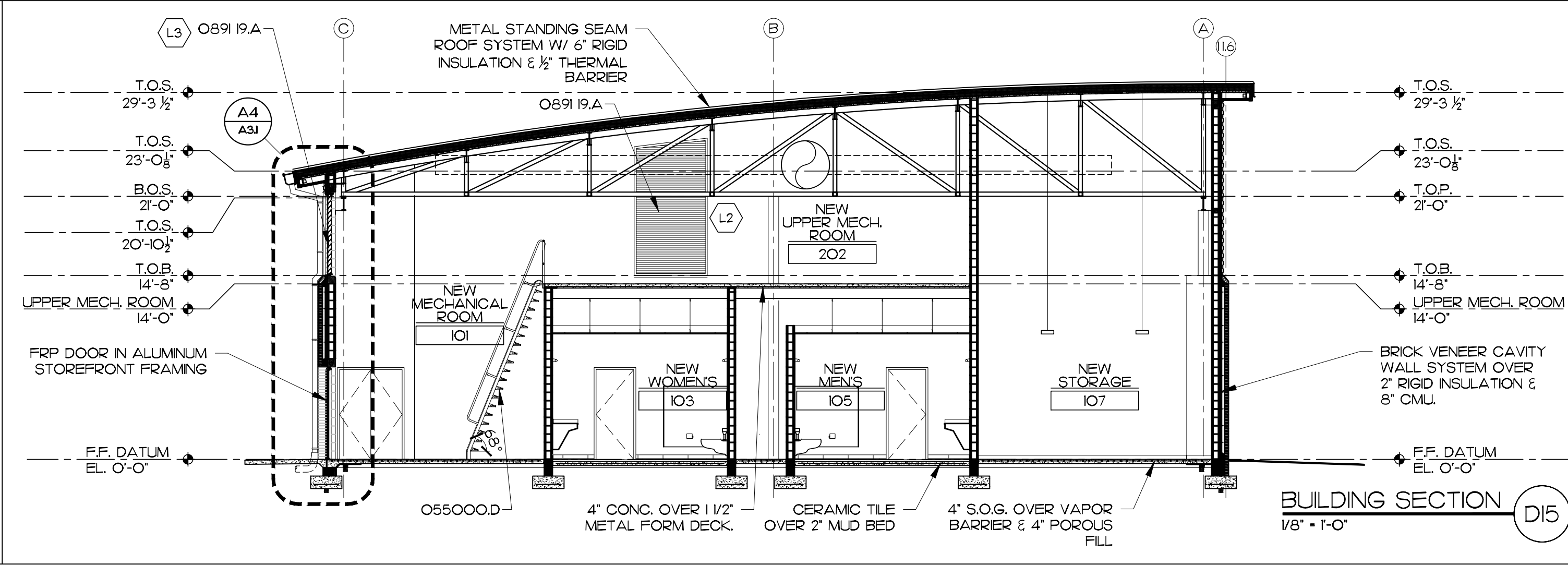
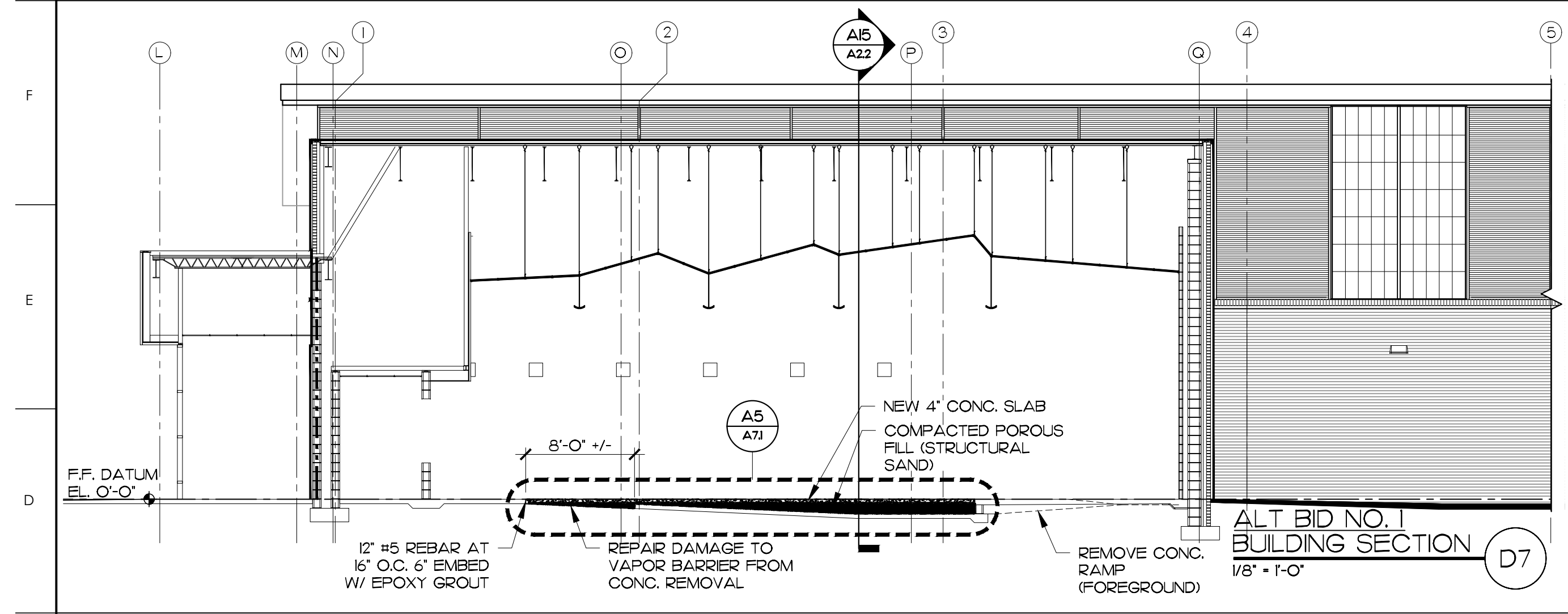
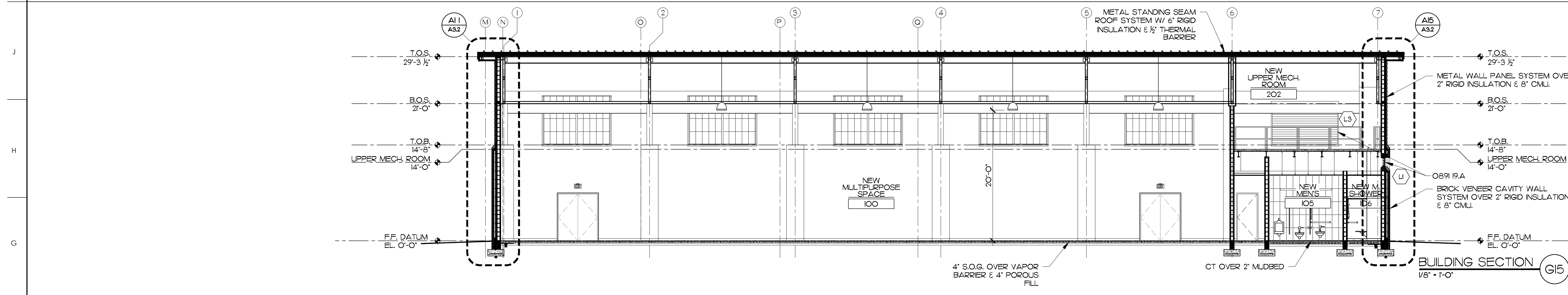
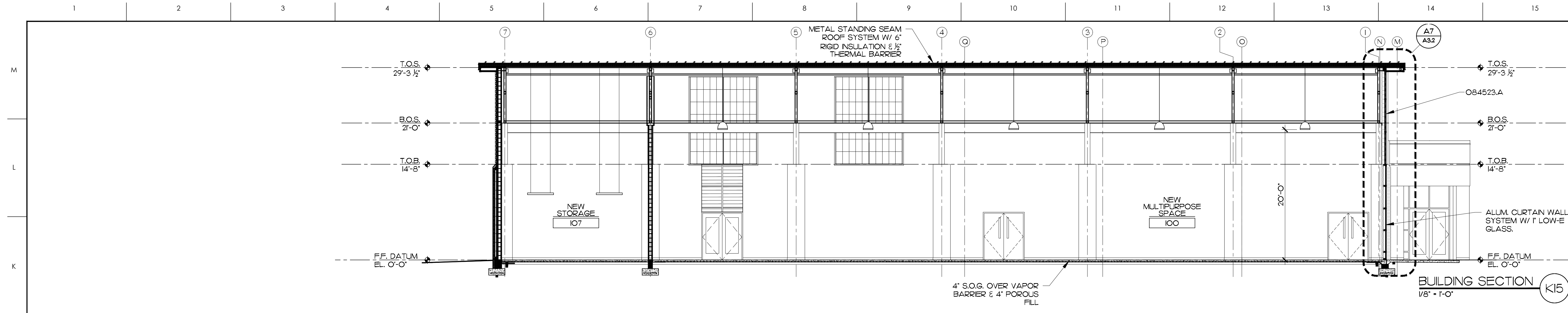


625 LYNDALE CT., SUITE F, GREENVILLE, NC 27639 252-355-1068

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **EXTERIOR ELEVATIONS**

SCALE: 1/8" = 1'-0"	DRAWING NO: A2.1
DRAWN: MCZ	CHECKED: JKF
DATE: 5-20-2024	PROJECT NO: 2024-06



MATERIALS KEYING LEGEND

- O55000.D - ALTERNATING TREAD STAIR ASSEMBLY
- O84523.A - FIBERGLASS-SANDWICH PANEL ASSEMBLY
- O891 19.A - FIXED, EXTRUDED-ALUMINUM LOUVER (SEE MECHANICAL)

GENERAL NOTES

- EXISTING TPO ROOF WARRANTED BY CARLISLE #CMDI143634

KEY PLAN

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

JOHN K. FARKAS
REGISTERED ARCHITECT
#5522
EXPIRES 12/31/2024

JKF

ARCHITECTURE

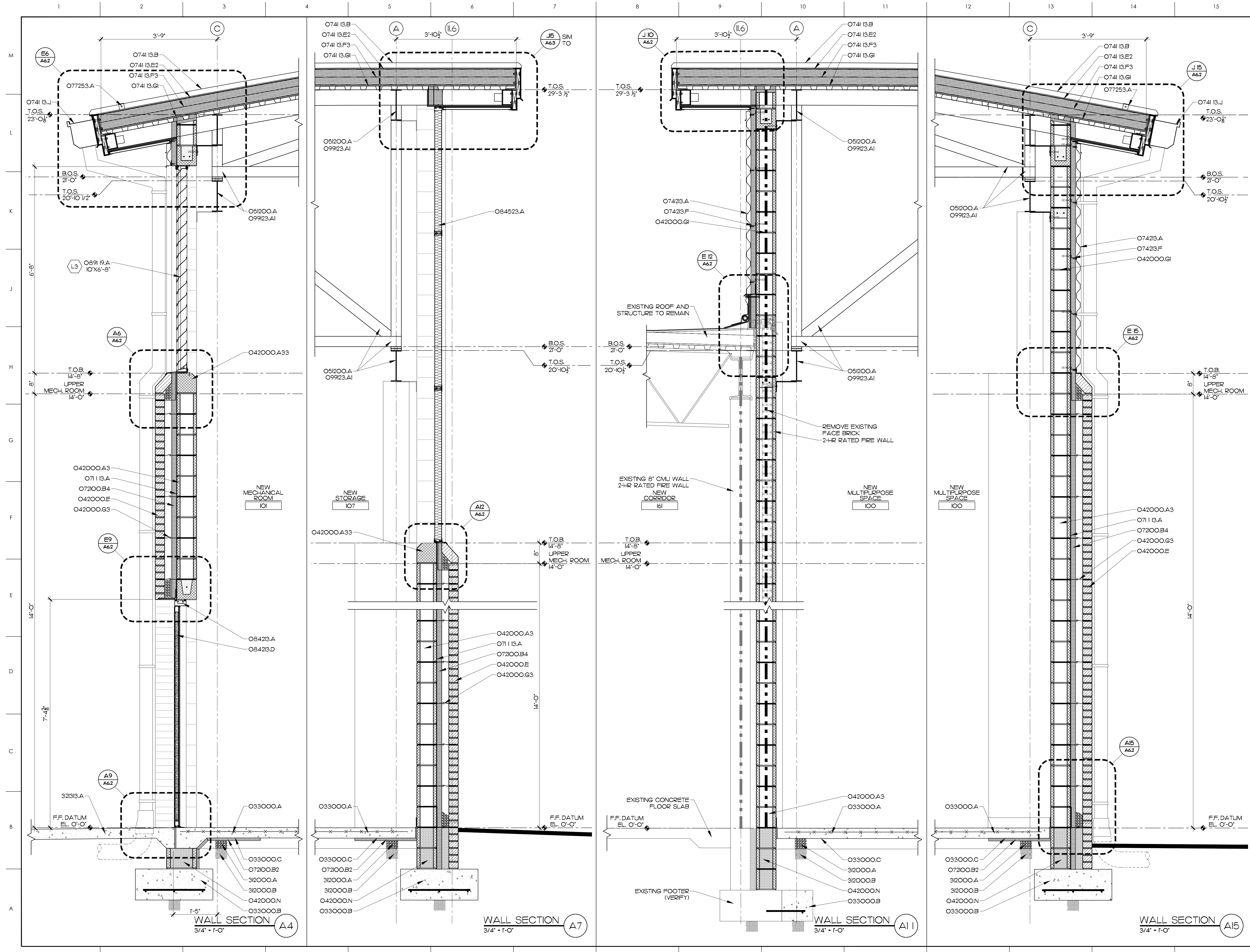
425 LYNDALE CT., SUITE F, GREENVILLE, NC 27659 252-355-1948

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE: **BUILDING SECTIONS**

SCALE: 1/8"=1'-0"	DRAWING NO:
DRAWN: JRH	A2.2
CHECKED: JKF	
DATE: 5-20-2024	
PROJECT NO: 2024-06	

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MATERIALS KEYING LEGEND

033000.A	-CONCRETE SLAB ON GRADE, SEE STRUCTURAL
033000.B	-CONCRETE FOOTING, SEE STRUCTURAL
033000.C	-VAPOR BARRIER
042000.A3	-CONCRETE MASONRY UNIT, 8"
042000.A33	-CONCRETE MASONRY UNIT, 8" SOLID BEVELED
042000.E	-FACE BRICK
042000.G1	-HORIZONTAL JOINT REINFORCING AT 16" O.C. VERT.
042000.G3	-HORIZONTAL JOINT REINF. AT 16" VERT. & BRICK-TIE EYES AT 24" O.C. HORIZ.
042000.N	-GROUT SOLID
051200.A	-STRUCTURAL STEEL, SEE STRUCTURAL DRAWINGS
07113.A	-BITUMINOUS DAMPROOFING
07200.B2	-1" RIGID INSULATION
07200.B4	-2" RIGID INSULATION
07413.B	-METAL ROOF, STANDING SEAM PANEL
07413.E2	-SELF ADHERING SHEET
07413.F3	-RIGID INSULATION, 6" THICK
07413.G1	-GLASS-MAT GYP. SHEATHING, 1/2" THICK
07413.J	-METAL GUTTER
07423.A	-METAL WALL PANEL
07423.F	-2" METAL Z-FURRING CHANNEL, 16" O.C.
077253.A	-SNOW GUARD
08423.A	-STOREFRONT FRAMING, THERMALLY BROKEN
08423.D	-ALUMINUM FRP DOOR
084523.A	-FIBERGLASS-SANDWICH PANEL ASSEMBLY
08919.A	-FIXED, EXTRUDED-ALUMINUM LOUVER (SEE MECHANICAL)
099123.A1	-PAINT FINISH, INTERIOR SYSTEM
312000.A	-POROUS FILL
312000.B	-COMPACTED FILL
32313.A	-CONCRETE SIDEWALK, 4" THICK

GENERAL NOTES

1. EXISTING TPO ROOF WARRANTED BY CARLISLE. #CMDI 143834

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

JOHN K. FARKAS
REGISTERED ARCHITECT
6/14/2024
5322

JKF
ARCHITECTURE

425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE: **WALL SECTIONS**

SCALE: 3/4"=1'-0"

DRAWN: MCZ

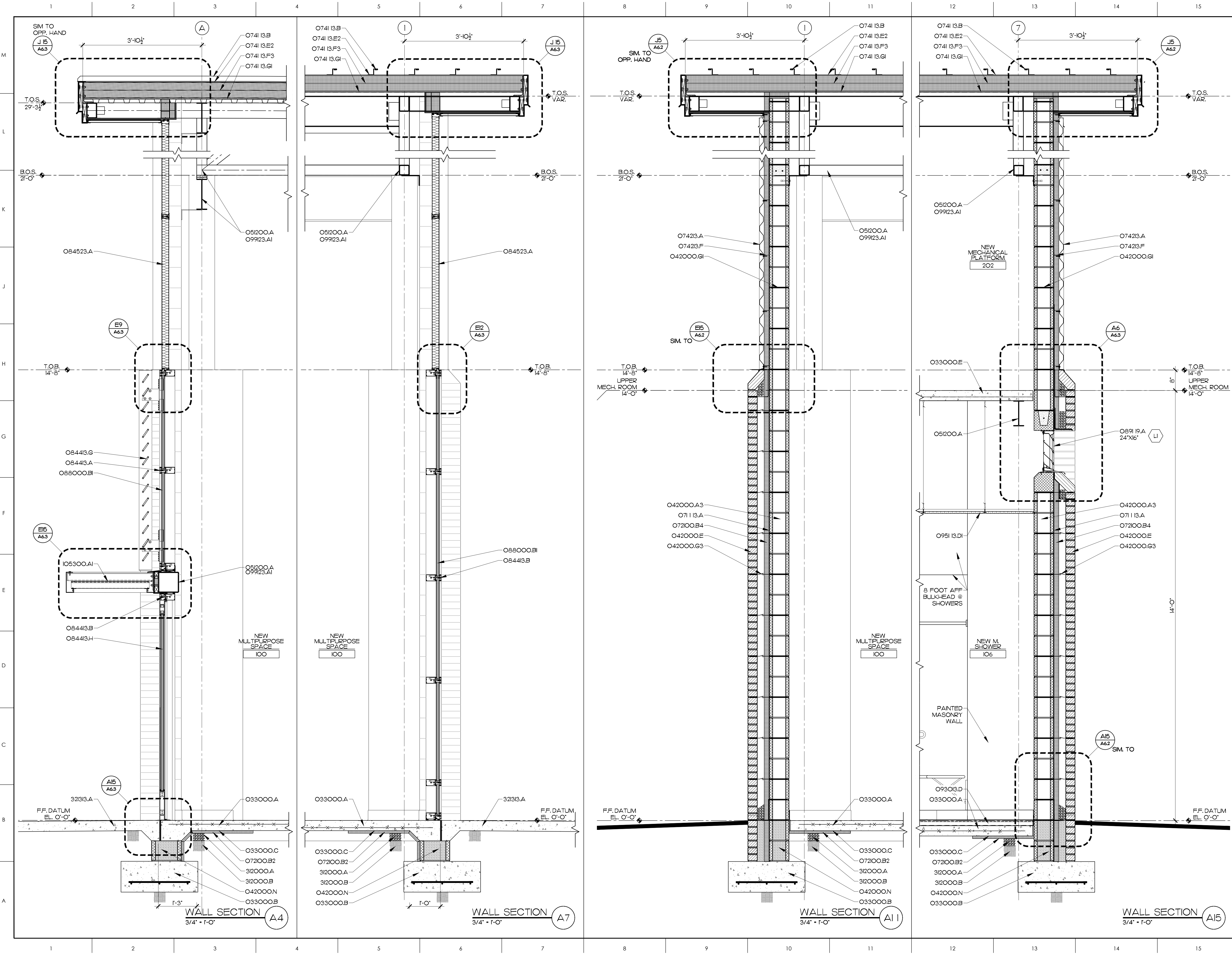
CHECKED: JKF

DATE: 5-20-2024

PROJECT NO.: 2024-06

A3.1

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MATERIALS KEYING LEGEND

- 033000.A - CONCRETE SLAB ON GRADE. SEE STRUCTURAL
- 033000.B - CONCRETE FOOTING. SEE STRUCTURAL
- 033000.C - VAPOR BARRIER
- 033000.E - CONCRETE - SEE STRUCTURAL
- 042000.A3 - CONCRETE MASONRY UNIT, 8"
- 042000.E - FACE BRICK
- 042000.GI - HORIZONTAL JOINT REINFORCING AT 16" O.C. VERT. & BRICK TIE EYES AT 24" O.C. HORIZ.
- 042000.G3 - HORIZONTAL JOINT REINF. AT 16" VERT. & BRICK TIE EYES AT 24" O.C. HORIZ.
- 042000.N - GROUT SOLID
- 051200.A - STRUCTURAL STEEL. SEE STRUCTURAL DRAWINGS
- 071113.A - BITUMINOUS DAMPROOFING
- 072000.B2 - 1" RIGID INSULATION
- 072000.B4 - 2" RIGID INSULATION
- 074113.B - METAL ROOF, STANDING SEAM PANEL.
- 074113.E2 - SELF-ADHERING SHEET
- 074113.F3 - RIGID INSULATION, 6" THICK
- 074113.GI - GLASS-MAT GYP. SHEATHING, 1/2" THICK
- 074213.A - METAL WALL PANEL.
- 074213.F - 2" METAL Z-FURRING CHANNEL, 16" O.C.
- 084413.A - ALUMINUM CURTAIN WALL ASSEMBLY
- 084413.B - ALUMINUM CURTAIN WALL FRAMING
- 084413.G - HORIZONTAL SUNSHADE SYSTEM
- 084413.H - ALUMINUM STILE AND RAIL DOOR ASSEMBLY
- 084523.A - FIBERGLASS-SANDWICH PANEL ASSEMBLY
- 088000.B1 - 1" INSULATING GLASS-LOW E
- 089119.A - FIXED, EXTRUDED-ALUMINUM LOUVER (SEE MECHANICAL)
- 093013.D - MORTAR BED
- 095113.D1 - ACOUSTICAL PANEL, CEILING TILE, 2X2
- 099213.A1 - PAINT FINISH, INTERIOR SYSTEM
- 105300.A - ALUMINUM CANOPY ASSEMBLY
- 312000.A - POROUS FILL
- 312000.B - COMPACTED FILL
- 321313.A - CONCRETE SIDEWALK, 4" THICK

GENERAL NOTES

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

SEAL

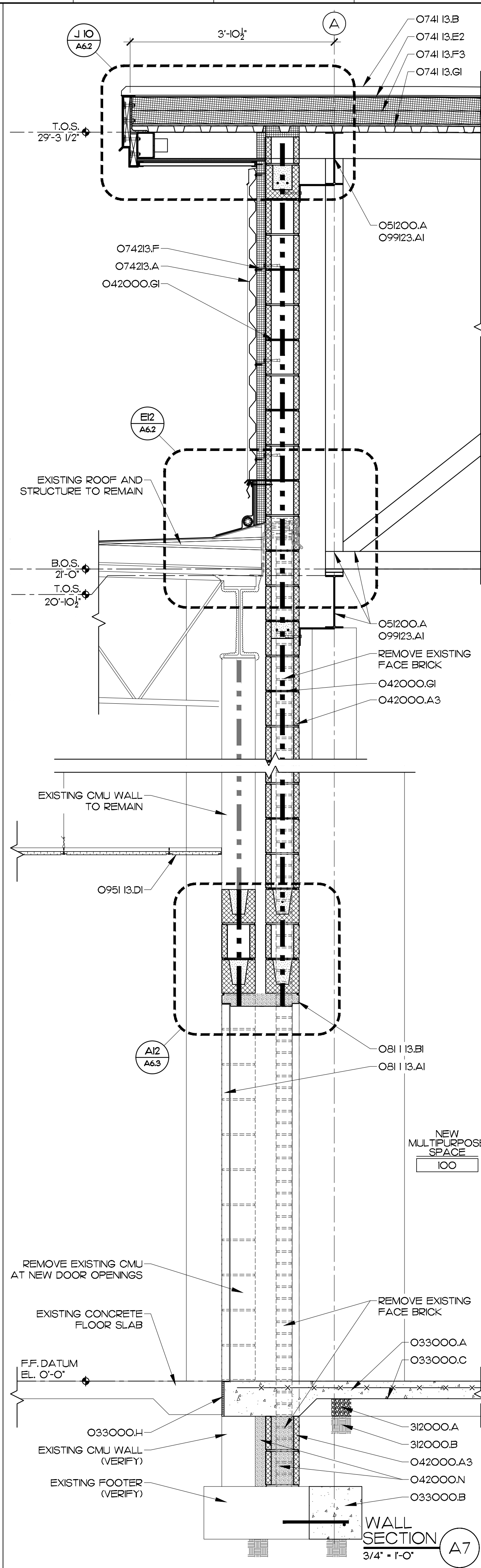
JKF
ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

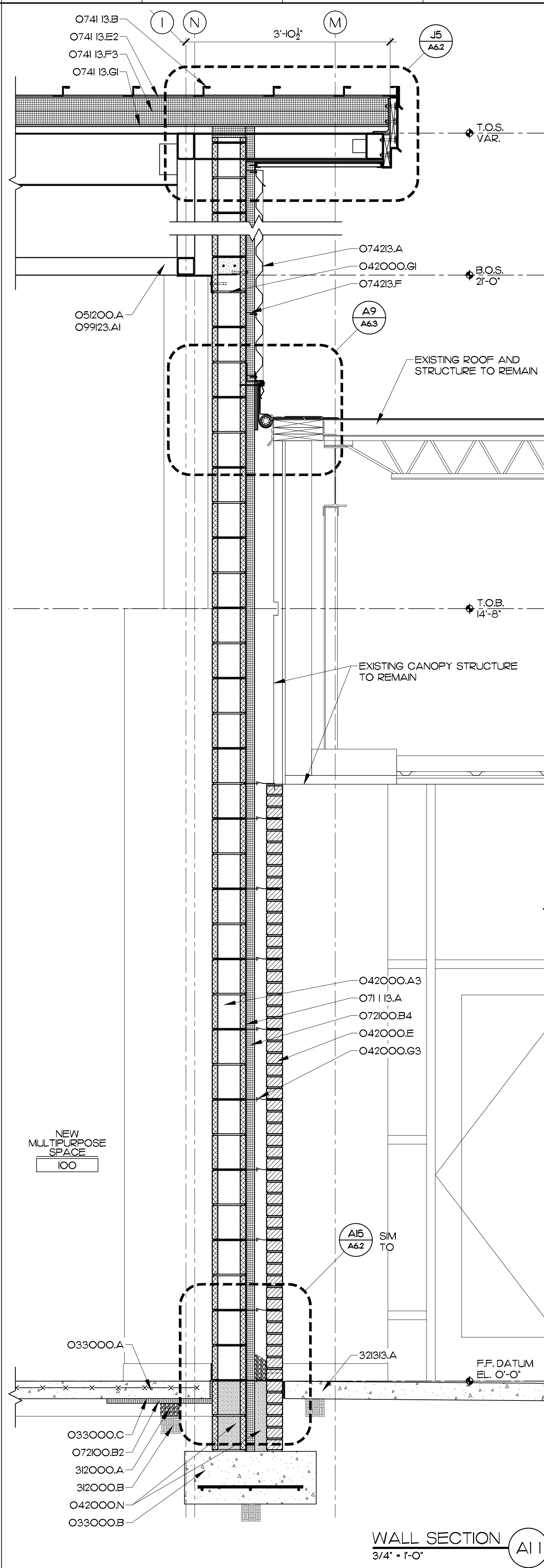
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
WALL SECTIONS

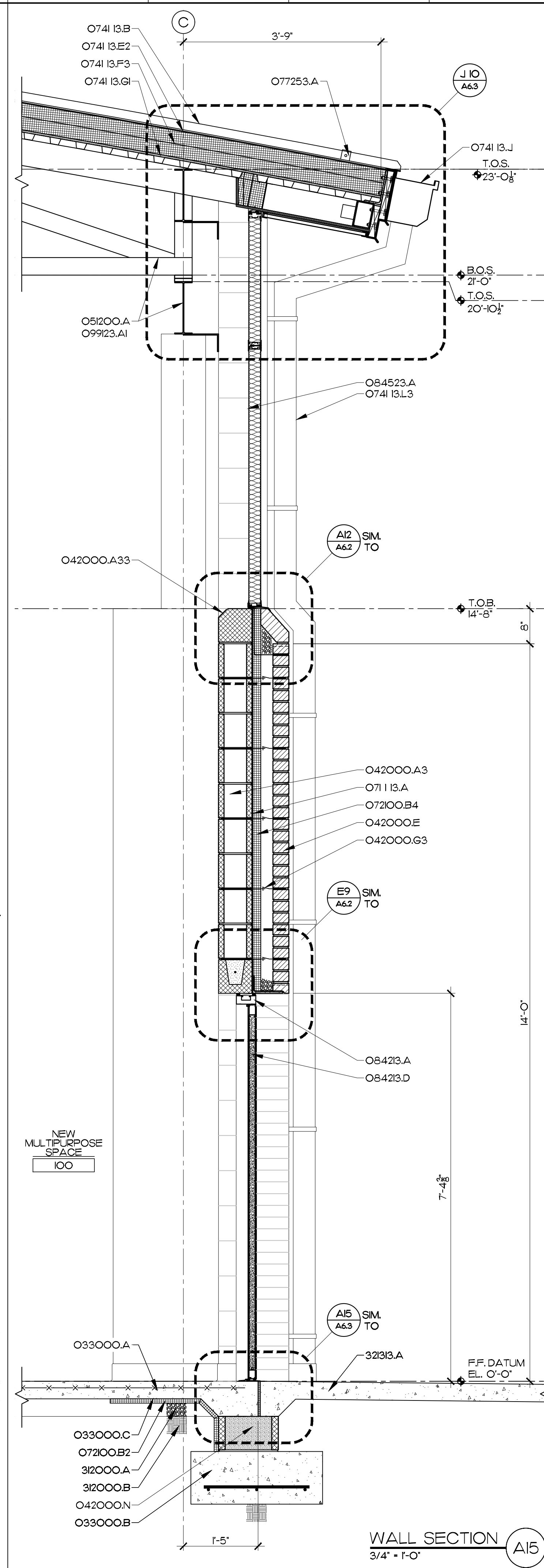
SCALE	3/4"=1'-0"	DRAWING NO.	A3.2
DRAWN	MCZ	CHECKED	
CHECKED	JKF	DATE	
DATE	5-20-2024	PROJECT NO.	
PROJECT NO.	2024-06		



WALL SECTION A7
3/4" x 1'-0"



WALL SECTION A11
3/4" x 1'-0"



WALL SECTION A15
3/4" x 1'-0"

MATERIALS KEYING LEGEND

033000.A	- CONCRETE SLAB ON GRADE, SEE STRUCTURAL
033000.B	- CONCRETE FOOTING, SEE STRUCTURAL
033000.C	- VAPOR BARRIER
033000.H	- COMPRESSIBLE FILL
042000.A3	- CONCRETE MASONRY UNIT, 8" SOLID BEVELED
042000.A33	- CONCRETE MASONRY UNIT, 8", SOLID BEVELED
042000.E	- FACE BRICK
042000.G1	- HORIZONTAL JOINT REINFORCING AT 16" O.C. VERT.
042000.G3	- HORIZONTAL JOINT REINF. AT 16" VERT. & BRICK TIE EYES AT 24" O.C. HORIZ.
042000.N	- GROUT SOLID
051200.A	- STRUCTURAL STEEL, SEE STRUCTURAL DRAWINGS
07113.A	- BITUMINOUS DAMPROOFING
07200.B2	- 1" RIGID INSULATION
07200.B4	- 2" RIGID INSULATION
07413.B	- METAL ROOF, STANDING SEAM PANEL
07413.E2	- SELF-ADHERING SHEET
07413.F3	- RIGID INSULATION, 6" THICK
07413.G1	- GLASS-MAT GYP. SHEATHING, 1/2" THICK
07413.J	- METAL GUTTER
07413.L3	- METAL DOWNSPOUT, 5X5"
07423.A	- METAL WALL PANEL
07423.F	- 2" METAL Z-Furring CHANNEL, 16" O.C.
077253.A	- SNOW GUARD
08113.A1	- HOLLOW METAL DOOR (FIRE-RATED)
08113.B1	- HOLLOW METAL FRAME (FIRE-RATED)
08423.A	- STOREFRONT FRAMING, THERMALLY BROKEN
08423.D	- ALUMINUM FRP DOOR
084523.A	- FIBERGLASS-SANDWICH PANEL ASSEMBLY
09513.D1	- ACOUSTICAL PANEL CEILING TILE, 2X2
09923.A1	- PAINT FINISH, INTERIOR SYSTEM
312000.A	- POROUS FILL
312000.B	- COMPACTED FILL
32313.A	- CONCRETE SIDEWALK, 4" THICK

GENERAL NOTES

1. EXISTING TPO ROOF WARRANTED BY CARLISLE. #CMDI 143834

--- EXISTING 2-HOUR FIRE PARTITION

--- NEW 2-HOUR FIRE WALL

SCO ID NO. 17-16813-01C; NCCCS NO. 2163

NO	REVISION	DATE

SEAL

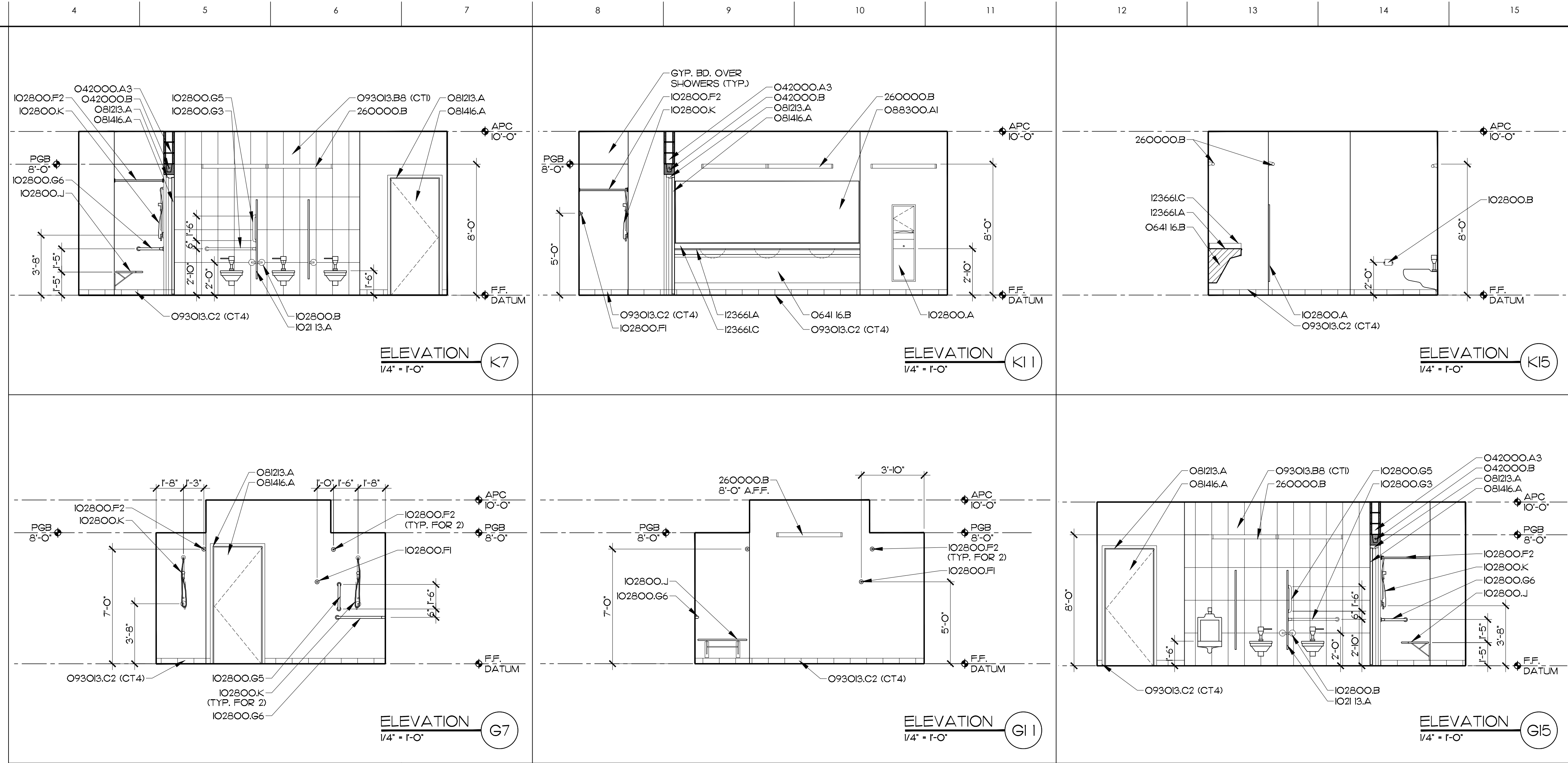
JKF
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE: **WALL SECTIONS**

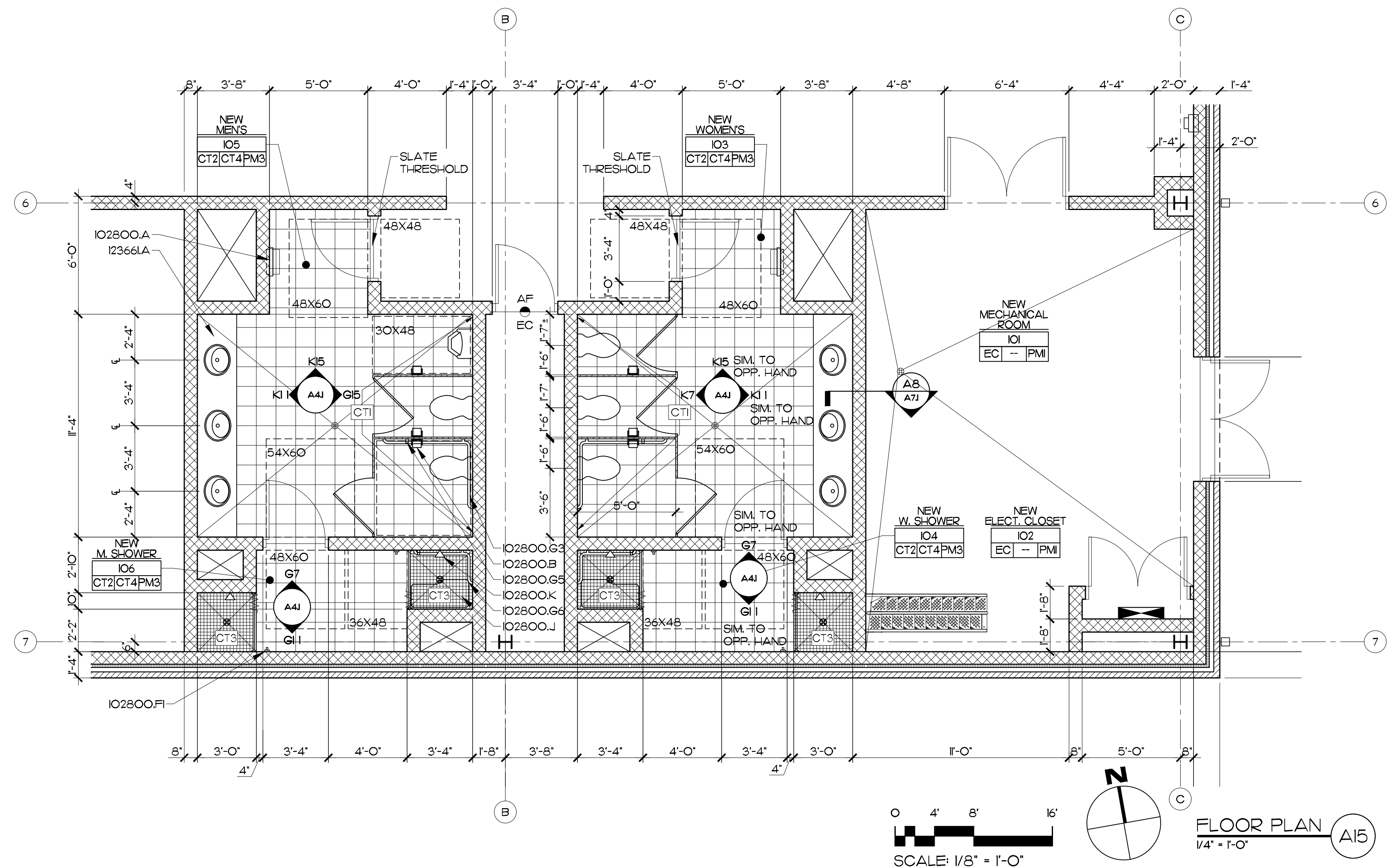
SCALE	3/4" = 1'-0"	DRAWING NO.	A3.3
DRAWN	MCZ		
CHECKED	JKF		
DATE	5-20-2024		
PROJECT NO.	2024-06		



- MATERIALS KEYING LEGEND**
- O42000.A3 - CONCRETE MASONRY UNIT, 8"
 - O42000.B - CONCRETE MASONRY, BOND BEAM
 - O641.6.B - PLASTIC LAMINATE, 3/4" THICK
 - O8123.A - HOLLOW METAL FRAME
 - O8146.A - SOLID CORE WOOD DOOR, FLUSH
 - O85300.A1 - 1/4" GLASS MIRROR
 - O9303.B8 - CERAMIC TILE, 12X24
 - O9303.C2 - CERAMIC TILE, SPECIAL SHAPE, SURFACE BULLNOSE
 - IO21.3.A - TOILET COMPARTMENT
 - IO2800.A - TOWEL DISPENSER/WASTE RECEPTACLE
 - IO2800.B - TOILET TISSUE DISPENSER
 - IO2800.FI - ROBE HOOK
 - IO2800.F2 - SHOWER CURTAIN ROD
 - IO2800.G3 - 42X54 GRAB BAR
 - IO2800.G5 - 18" VERT. GRAB BAR
 - IO2800.G6 - 18"X32" GRAB BAR
 - IO2800.J - FOLDING SHOWER SEAT
 - IO2800.K - SHOWER HEAD ASSEMBLY W/6" HAND-HELD HEAD
 - IO2800.L - SHOWER HEAD ASSEMBLY W/6" HAND-HELD HEAD
 - I23661.A - SIMULATED STONE COUNTERTOP
 - I23661.C - SIMULATED STONE BACKSPLASH
 - 260000.B - INTERIOR LIGHT FIXTURE

GENERAL NOTES

1 ALL FLOORS IN BATHROOMS AND TOILETS TO HAVE WATERPROOF MEMBRANE PER SPECIFICATION.



KEY PLAN

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

SEAL: JOHN K. FARKAS, REGISTERED ARCHITECT, 6/14/2024, 5320

JKF ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS

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

DRAWING NO: A4.1

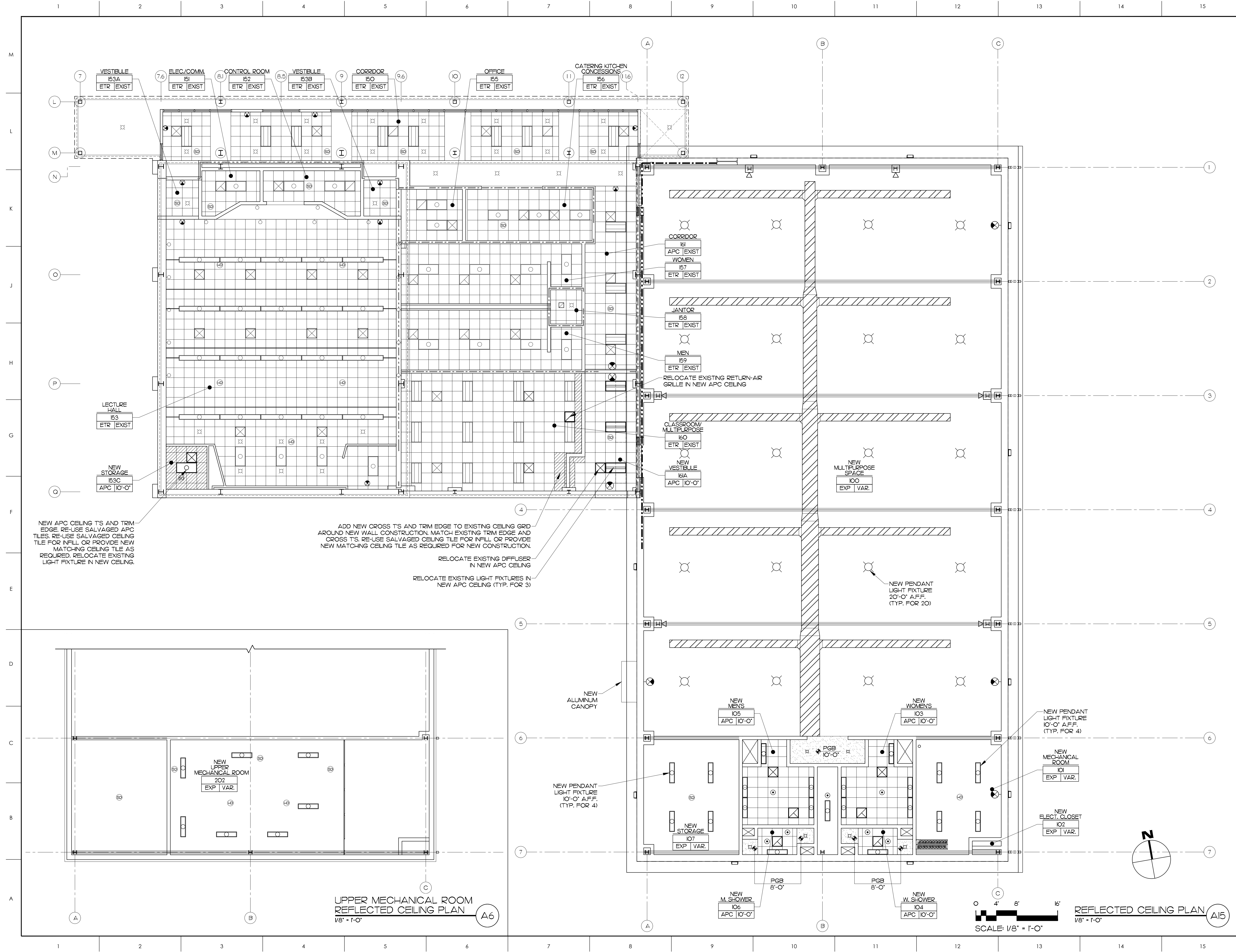
DRAWN: BTP

CHECKED: JKF

DATE: 5-20-2024

PROJECT NO: 2024-06

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MATERIALS KEYING LEGEND

GENERAL NOTES

KEY PLAN

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

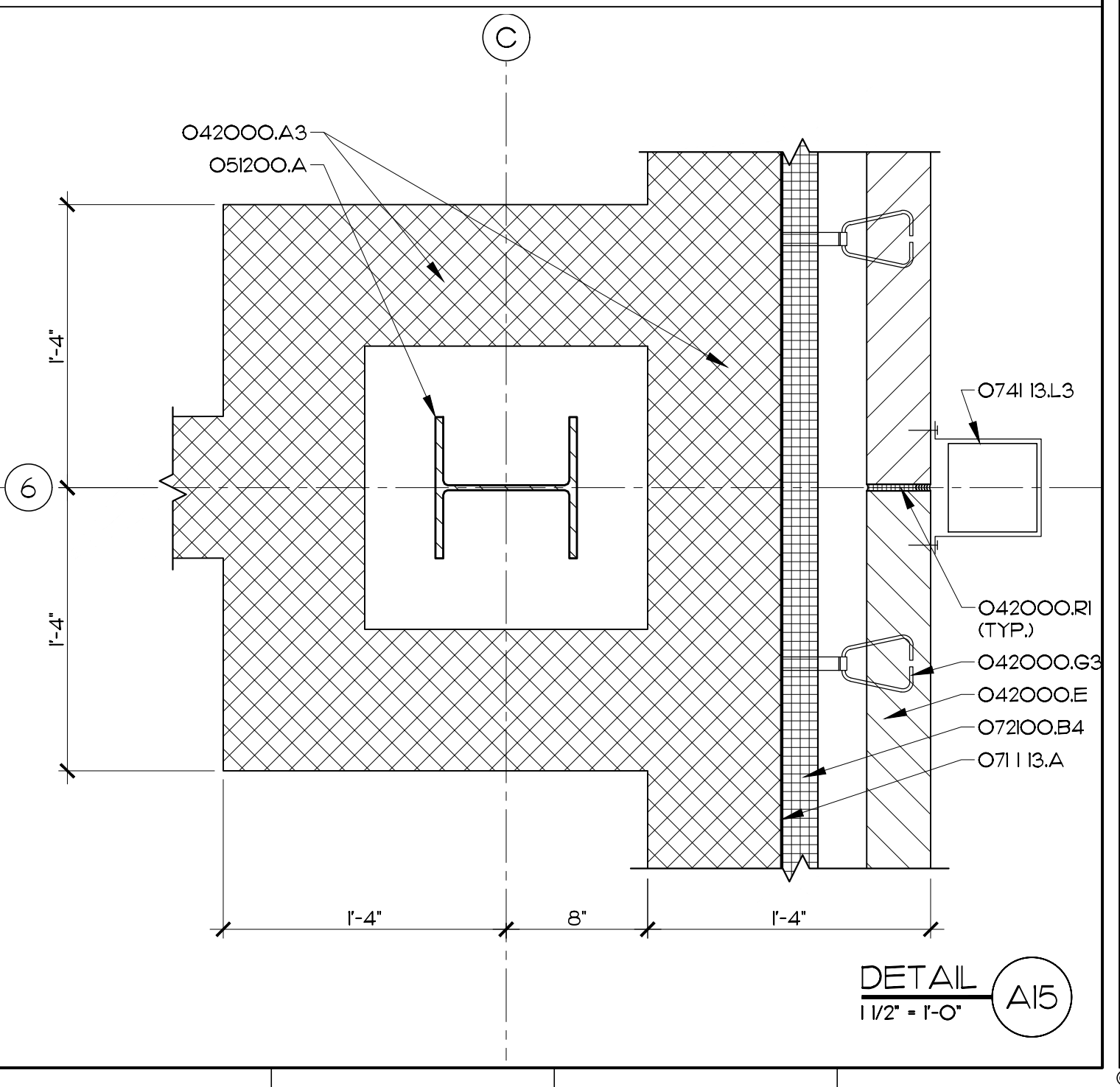
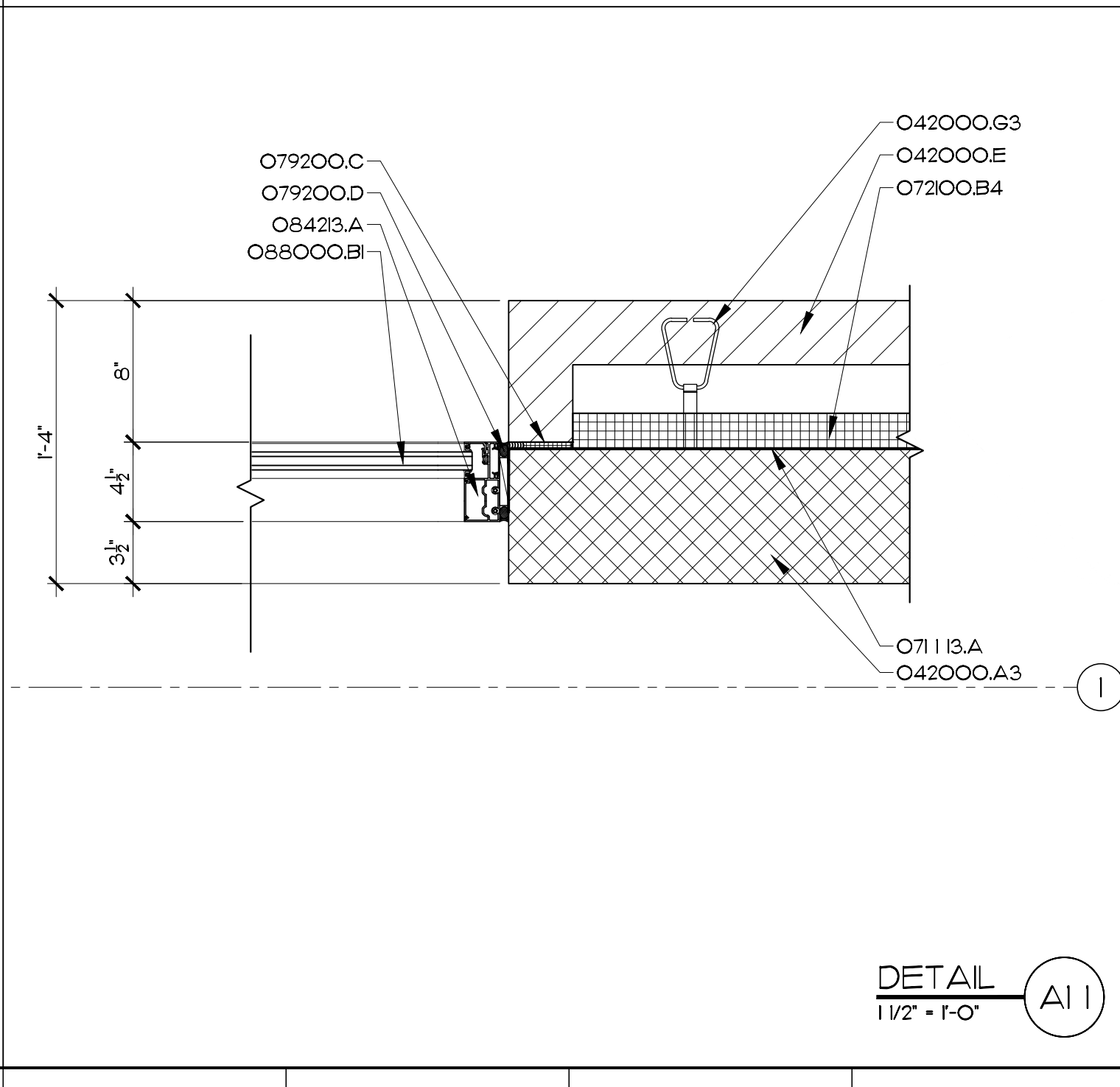
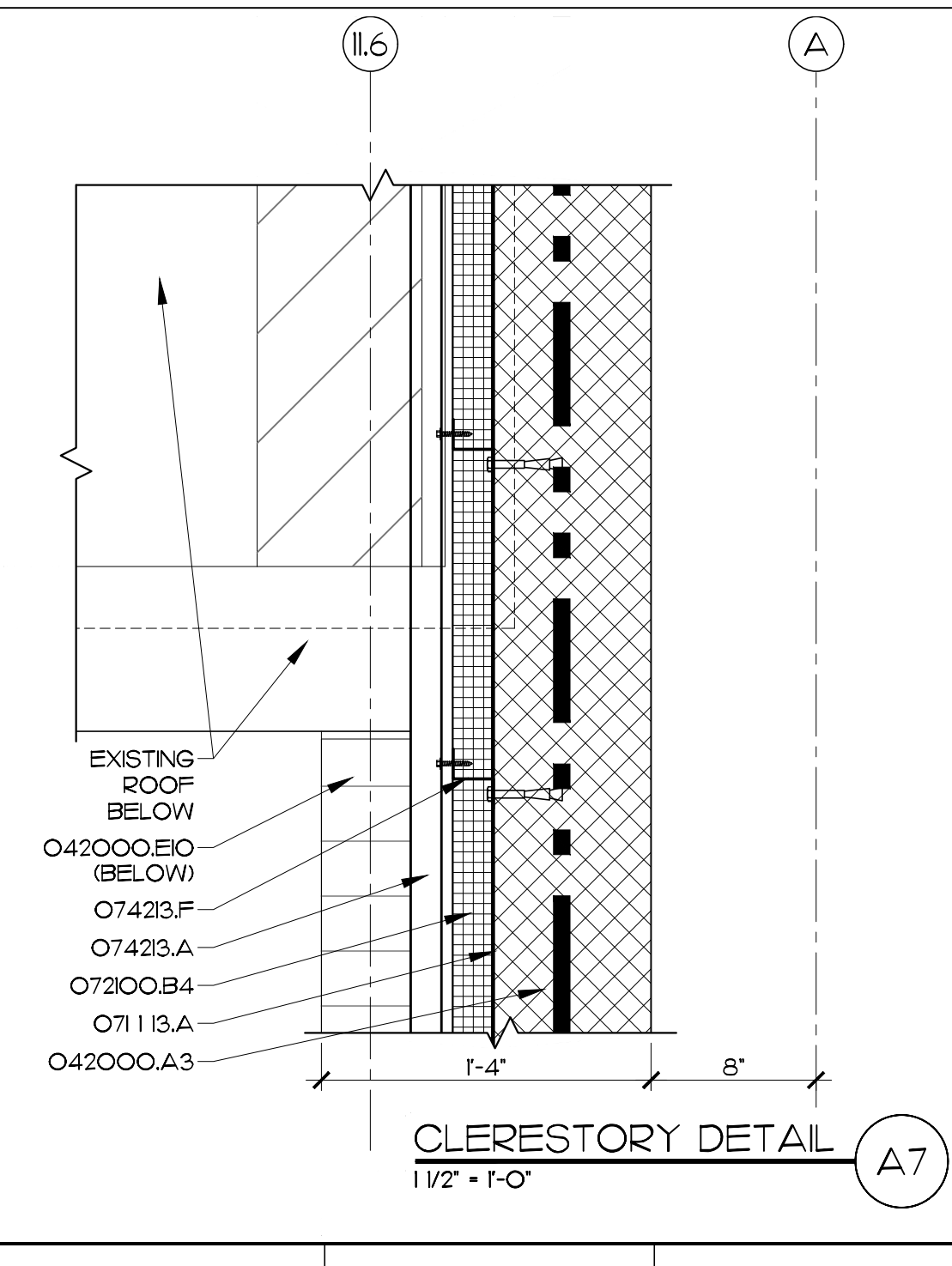
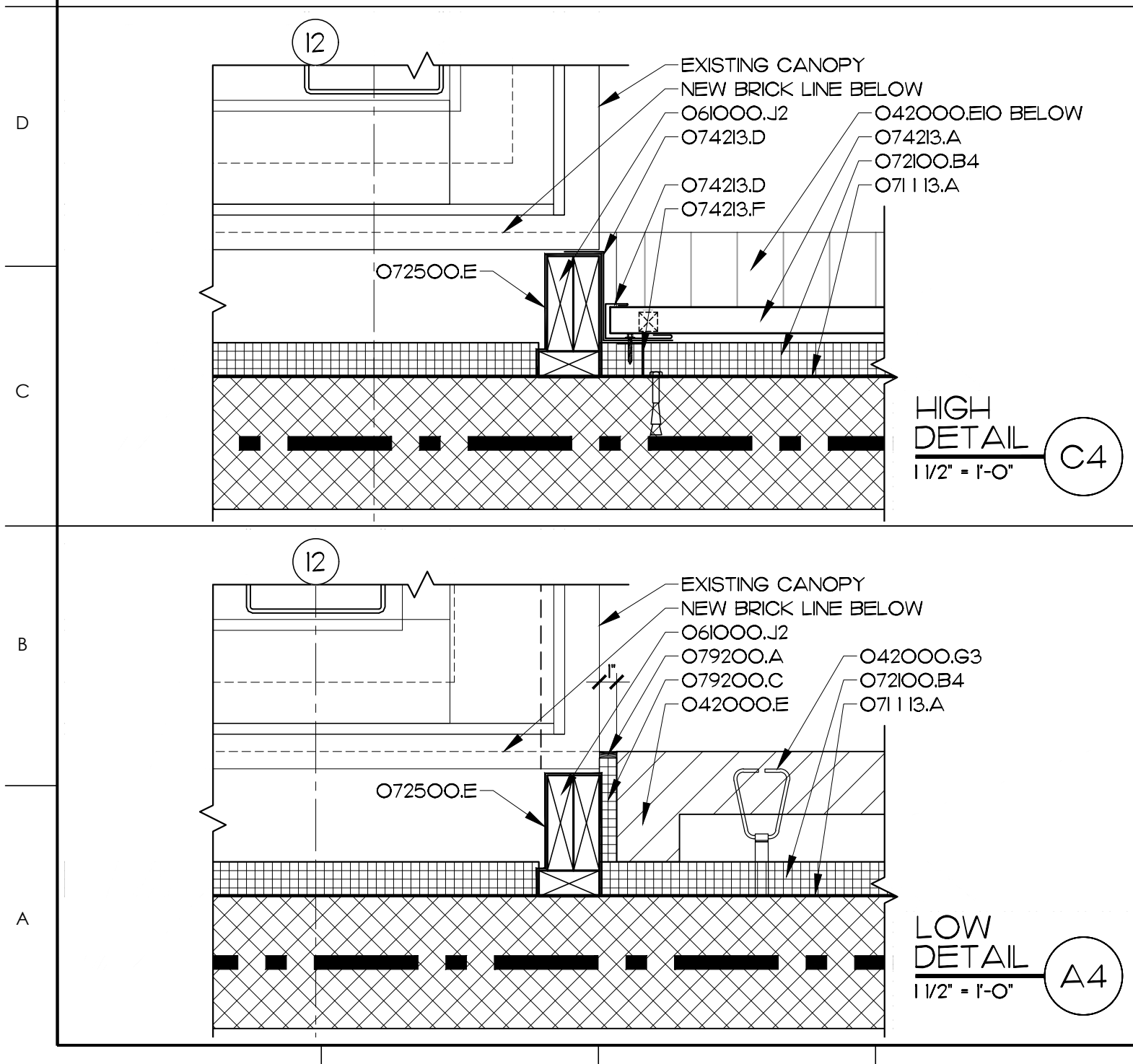
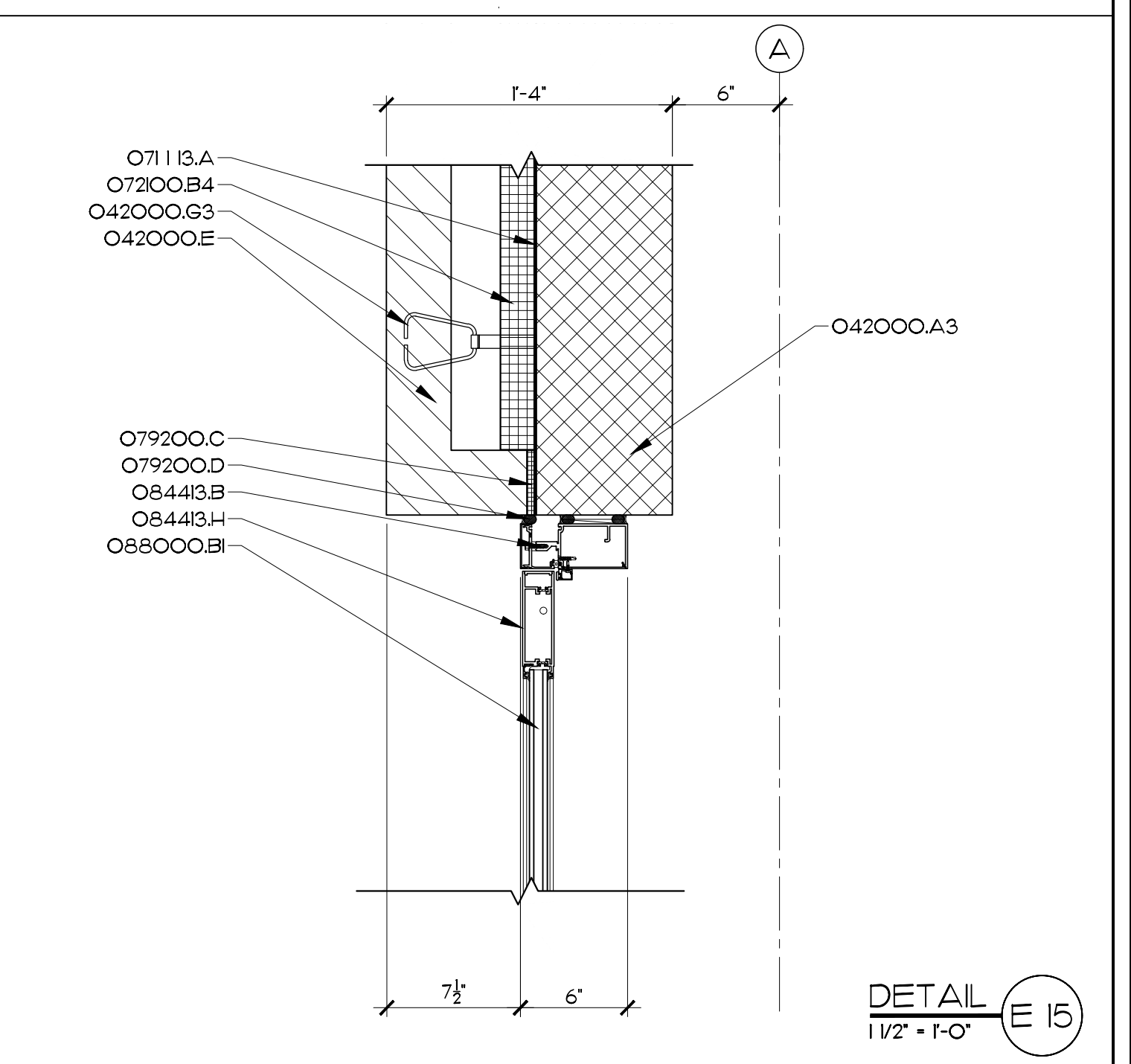
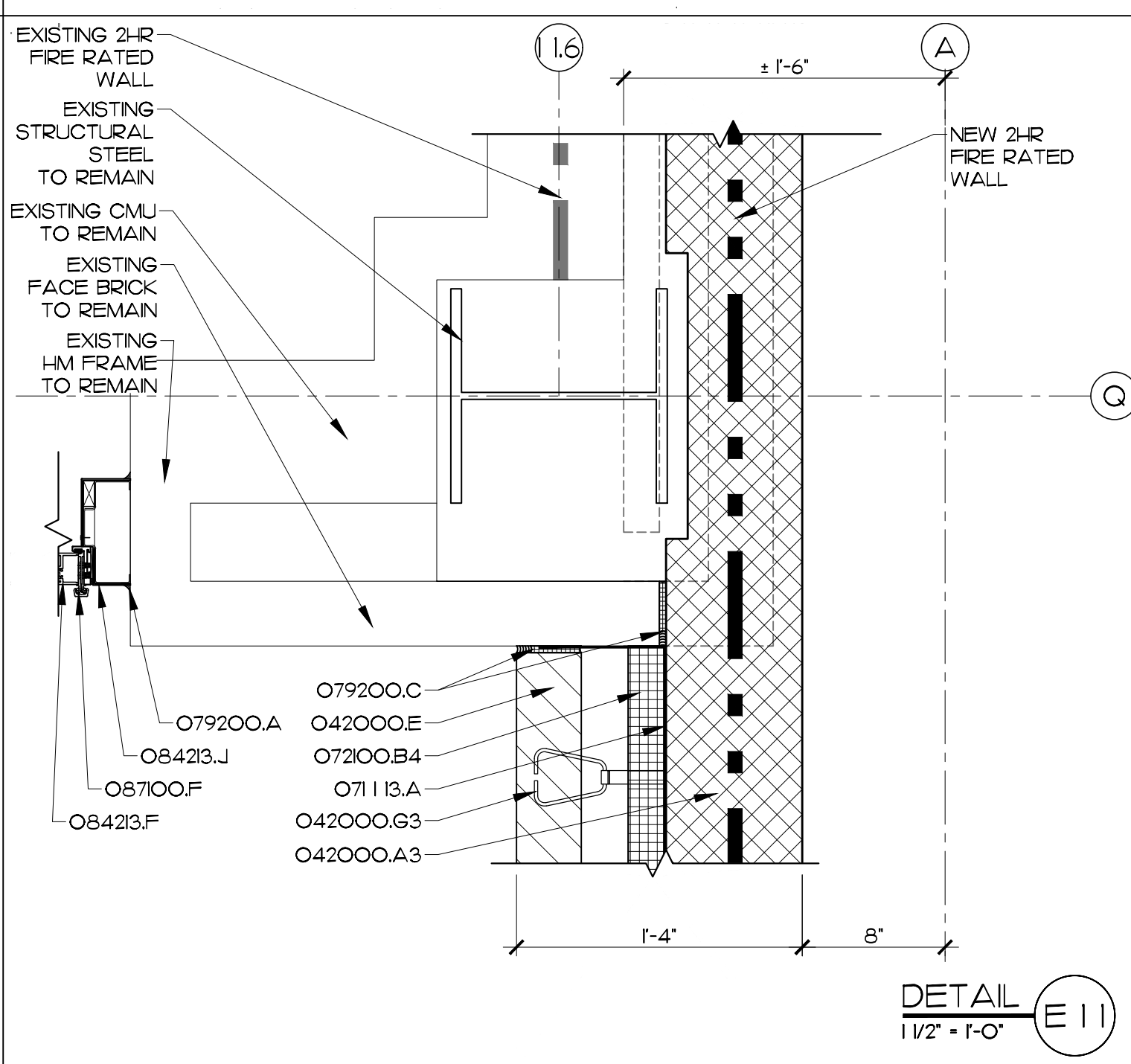
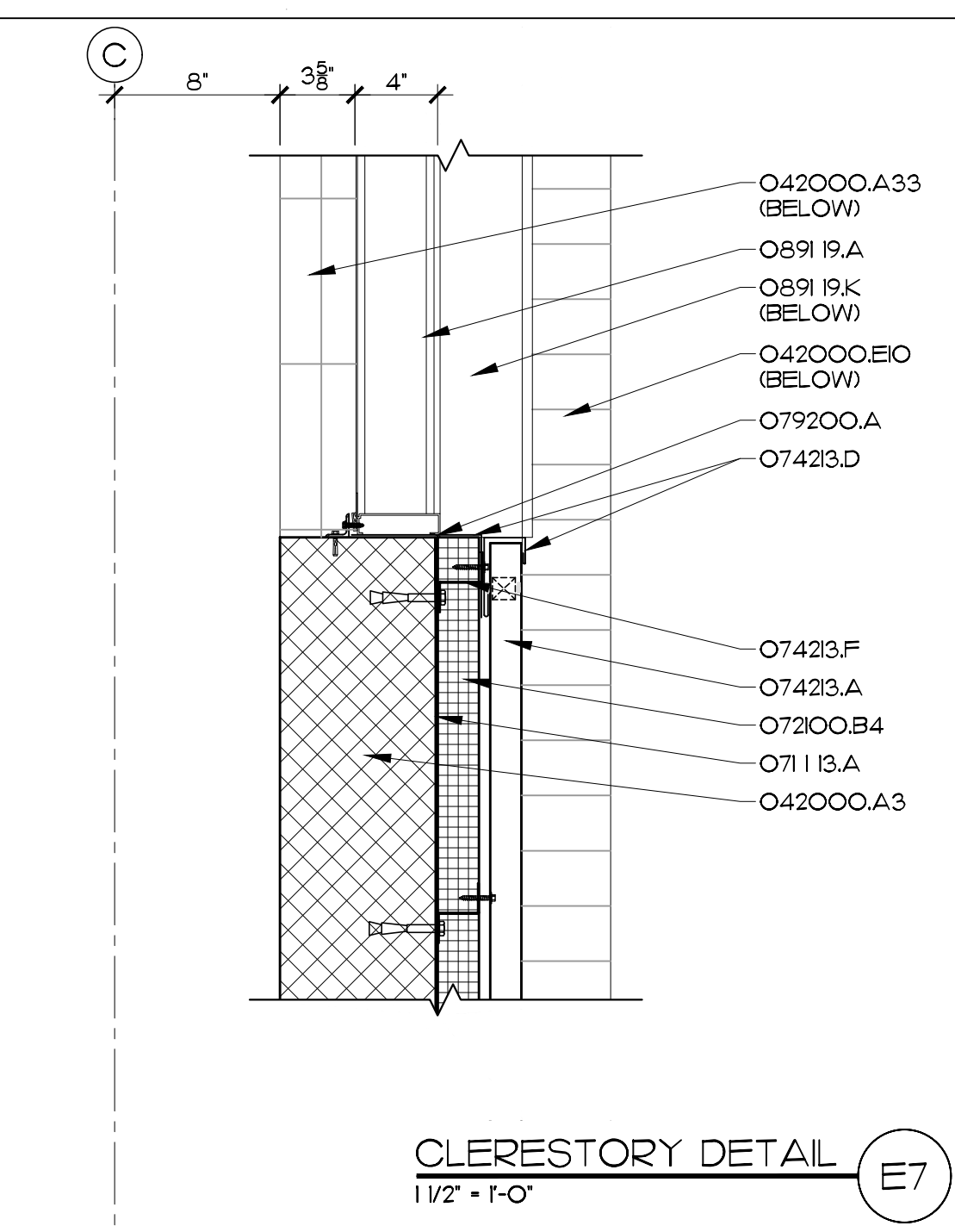
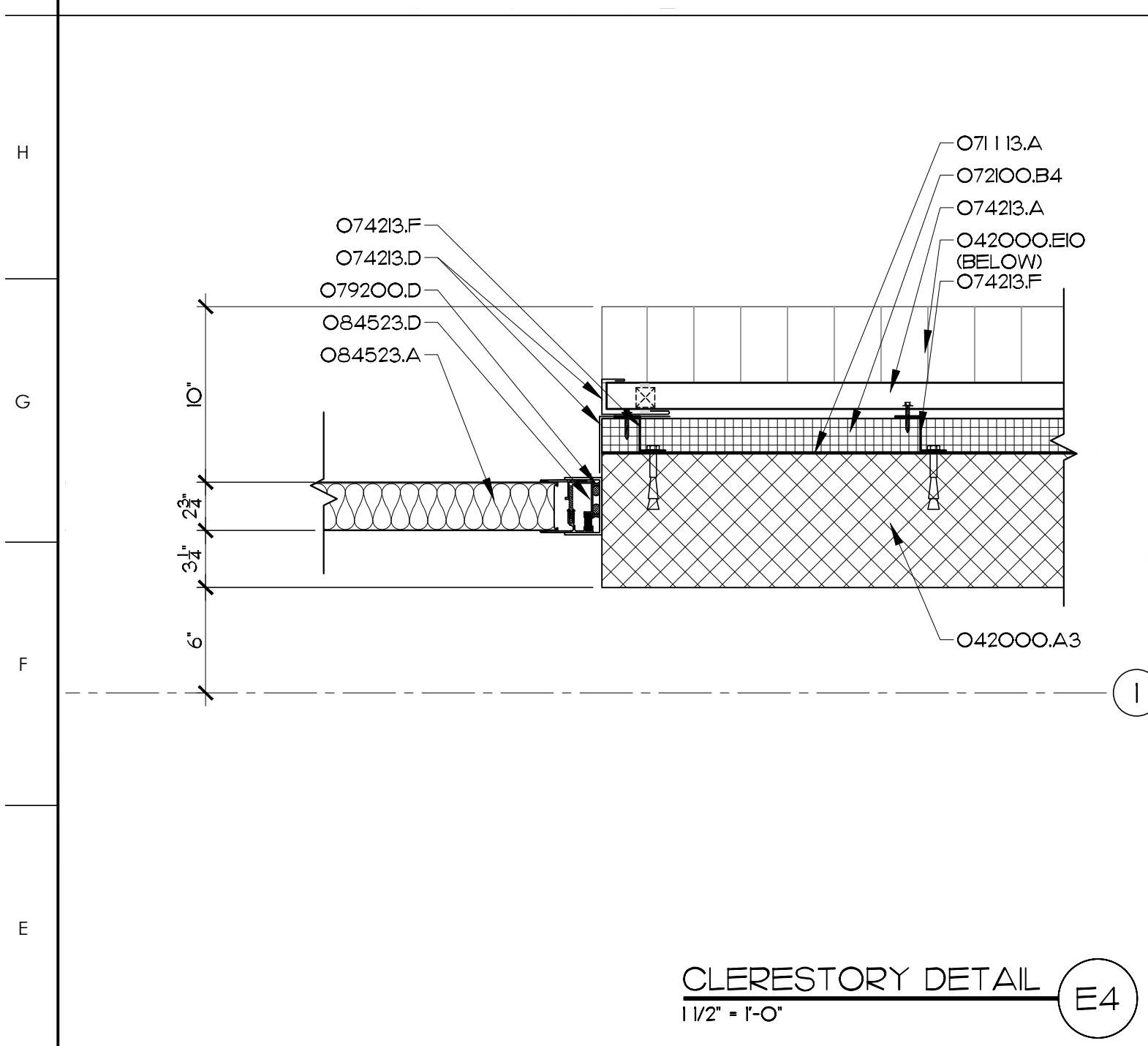
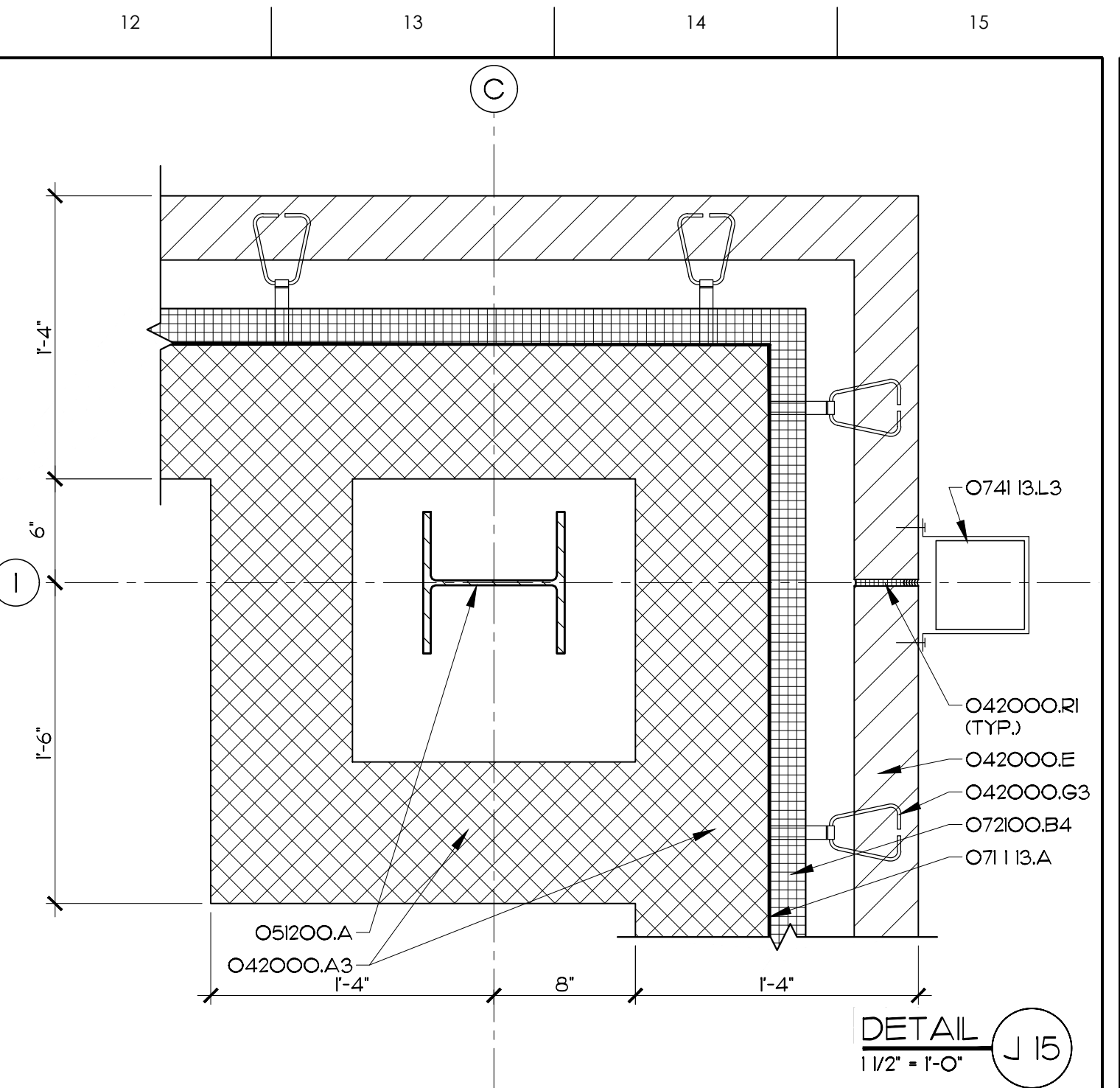
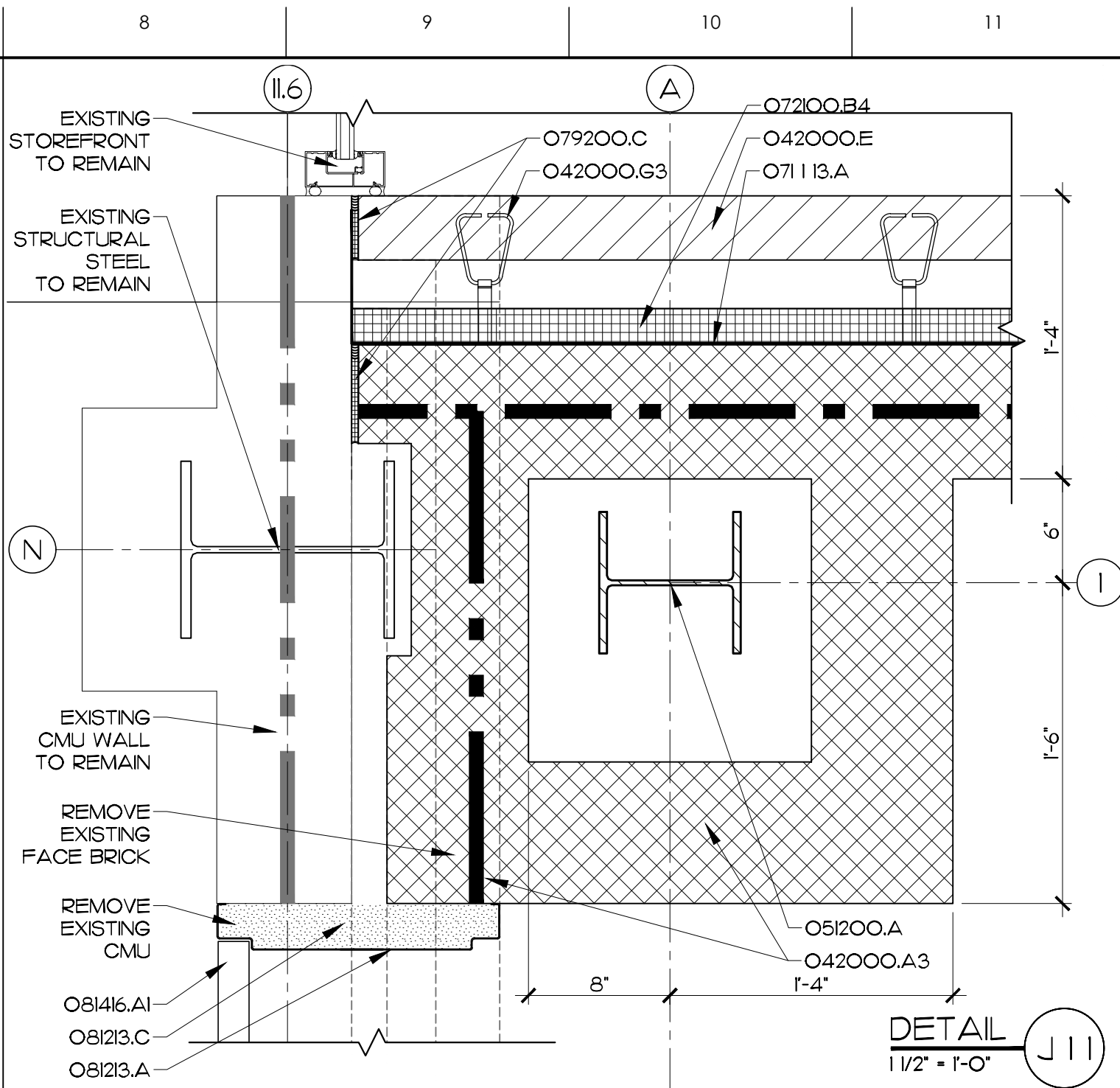
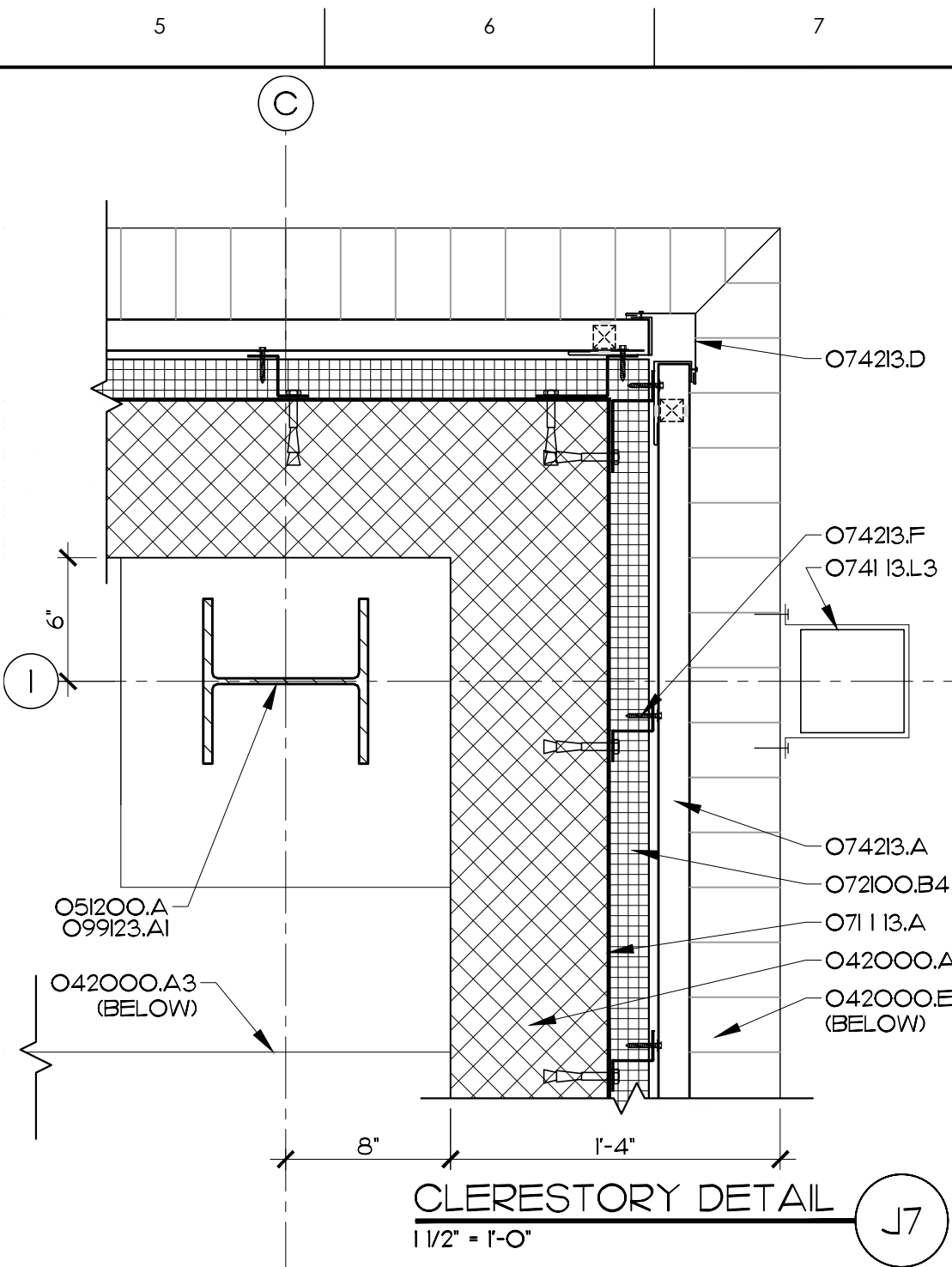
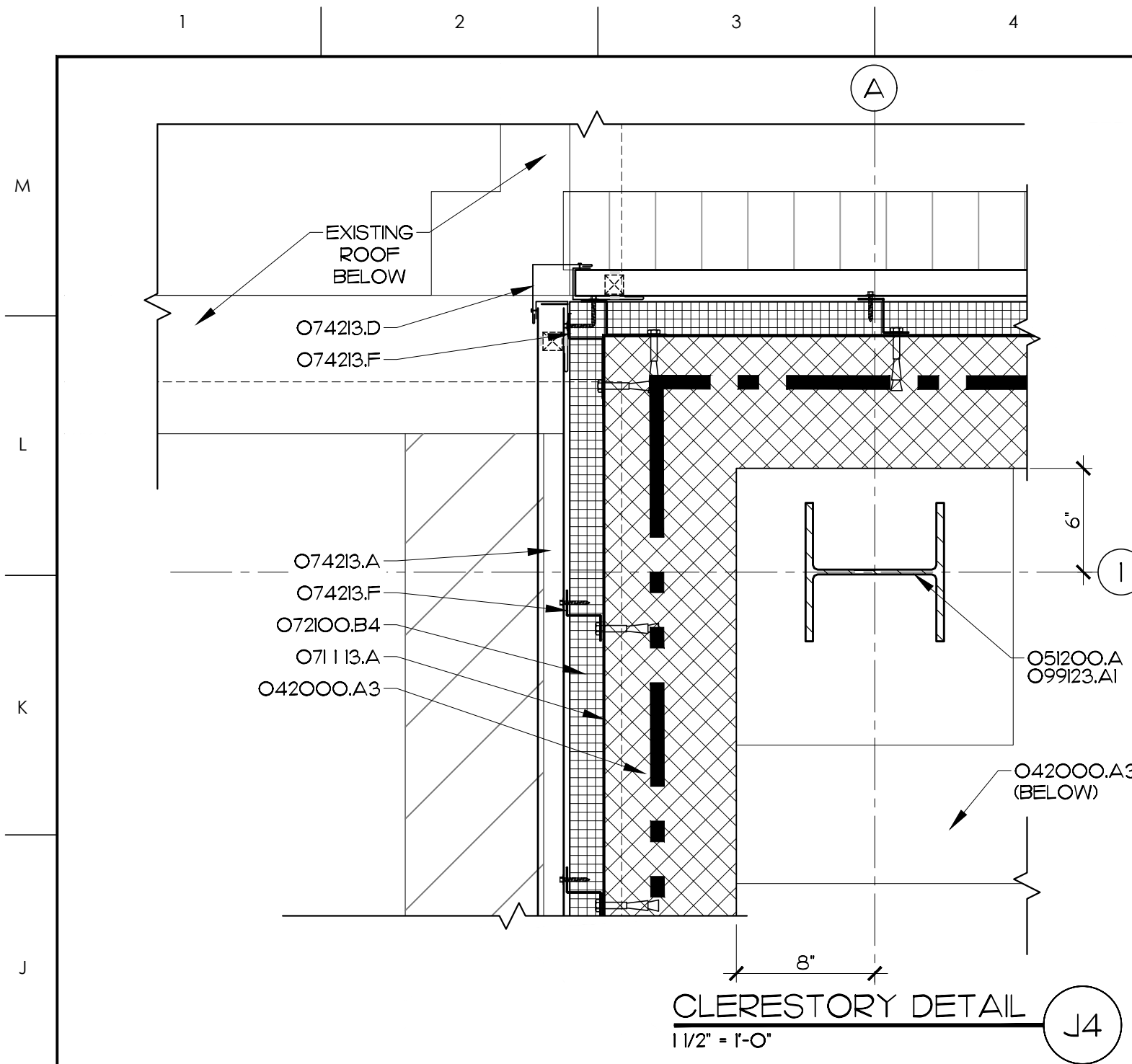
JOHN K. FARKAS
 6/14/2024
 JOHN K. FARKAS
 ARCHITECT
 625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
 CLINTON, NC

DRAWING TITLE:
 REFLECTED CEILING PLAN, UPPER MECHANICAL ROOM
 REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"
 DRAWN: MCZ
 CHECKED: JKF
 DATE: 5-20-2024
 PROJECT NO.: 2024-06

DRAWING NO: A5.1
 PROJECT NO.: 2024-06
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MATERIALS KEYING LEGEND

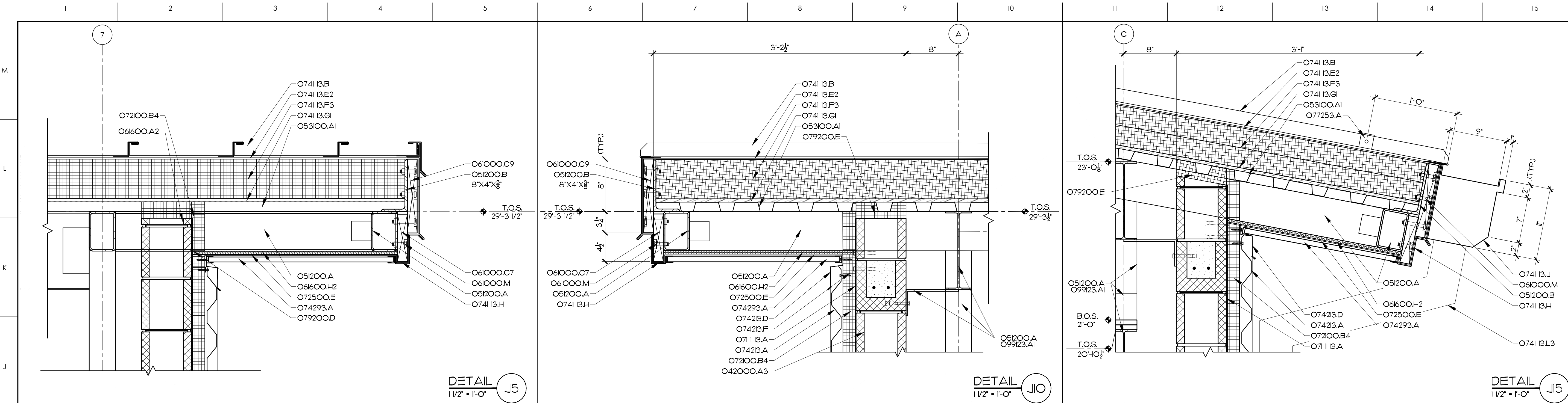
- O42000.A3 - CONCRETE MASONRY UNIT, 8"
- O42000.A33- CONCRETE MASONRY UNIT 8" SOLID BEVELED
- O42000.E - FACE BRICK
- O42000.EIO - FACE BRICK, SOLDIER COURSE SILL, SPECIAL SHAPE
- O42000.G3 - HORIZONTAL JOINT REINF. AT 16" VERT. & BRICK TIE EYES AT 24" O.C. HORIZ.
- O42000.RI - CONTROL JOINT
- O51200.A - STRUCTURAL STEEL, SEE STRUCTURAL DRAWINGS
- O61000.J2 - WOOD BLOCKING, PRESSURE TREATED
- O71113.A - BITUMINOUS DAMPROOFING
- O7200.B4 - 2" RIGID INSULATION
- O72500.E - BUILDING WRAP
- O74113.L3 - METAL DOWNSPOUT, 5X5
- O7423.A - METAL WALL PANEL
- O7423.D - METAL CLOSURE TRIM
- O7423.F - 2" METAL Z-FLURRING CHANNEL, 16" O.C.
- O79200.A - SEALANT
- O79200.C - COMPRESSIBLE SEALER W/ADHESIVE
- O79200.D - BACKER ROD & SEALANT
- O8123.A - HOLLOW METAL FRAME (FIRE-RATED)
- O8123.C - GROUT SOLID
- O8146.A1 - SOLID CORE WOOD DOOR, FLUSH, (FIRE RATED)
- O8423.A - STOREFRONT FRAMING, THERMALLY BROKEN
- O8423.F - ALUMINUM STILE & RAIL DOOR
- O8423.J - ALUMINUM RETROFIT FRAME
- O8443.B - ALUMINUM CURTAIN WALL FRAMING
- O8443.H - ALUMINUM STILE AND RAIL DOOR
- O84523.A - FIBERGLASS-SANDWICH PANEL ASSEMBLY
- O84523.D - METAL SUB-FRAME
- O8700.F - CONTINUOUS ALUMINUM HINGE
- O88000.B1 - 1" INSULATING GLASS-LOW E
- O89119.A - FIXED, EXTRUDED-ALUMINUM LOUVER (SEE MECHANICAL)
- O89119.K - METAL SILL PAN
- O99123.A1 - PAINTED FINISH, INTERIOR SYSTEM

GENERAL NOTES

- EXISTING 2-HOUR FIRE PARTITION
- NEW 2-HOUR FIRE WALL

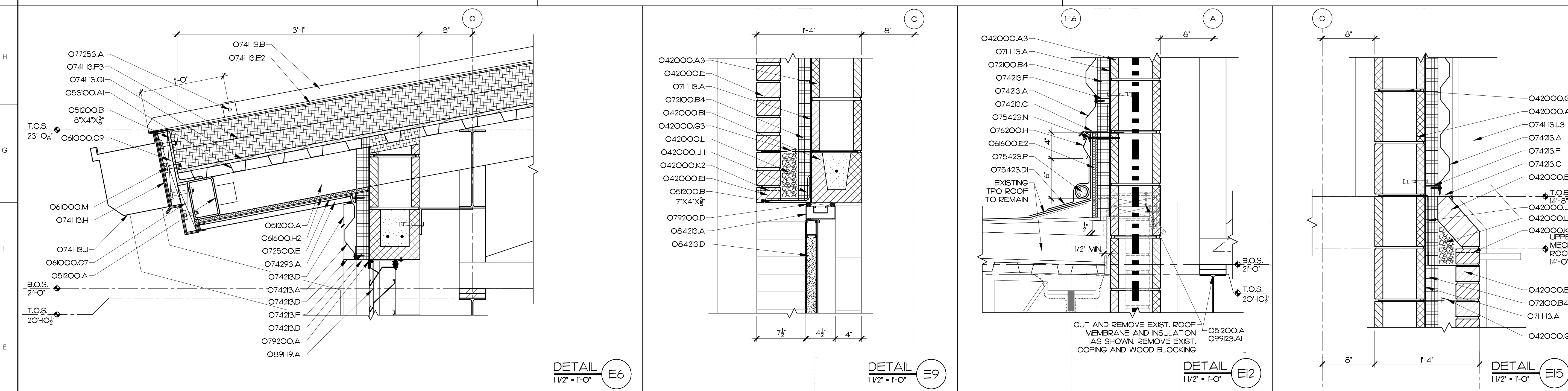
SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE
JKF ARCHITECTURE 425 LYNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048		
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC		
DRAWING TITLE		
EXTERIOR DETAILS		
SCALE	DRAWING NO.	
1 1/2" = 1'-0"		
DRAWN	MCZ	
CHECKED	JKF	
DATE	5-20-2024	
PROJECT NO.	2024-06	



MATERIALS KEYING LEGEND

O33000.A	-CONCRETE SLAB ON GRADE, SEE STRUCTURAL
O33000.B	-CONCRETE FOOTING, SEE STRUCTURAL
O33000.C	-VAPOR BARRIER
O33000.H	-COMPRESSIBLE FILL
O42000.A33	-CONCRETE MASONRY UNIT 8" SOLID BEVELED
O42000.A4	-CONCRETE MASONRY UNIT, 12"
O42000.B	-CONCRETE MASONRY, BOND BEAM, 8"
O42000.E	-FACE BRICK
O42000.EI	-FACE BRICK, SHELVE BRICK
O42000.EIO	-FACE BRICK, SOLDER COURSE SILL, SPECIAL SHAPE
O42000.GI	-HORIZONTAL JOINT REINFORCING AT 16" O.C. VERT.
O42000.G3	-HORIZONTAL JOINT REINF. AT 16" VERT. & BRICK TIE EYES AT 24" O.C. HORIZ.
O42000.J1	-THRU-WALL FABRIC FLASHING
O42000.J2	-WEEP SLOTS AT 16" O.C.
O42000.K	-WET DRAINAGE MATERIAL
O42000.L	-GROUT SOLID
O42000.N	-STRUCTURAL STEEL, SEE STRUCTURAL DRAWINGS
O51200.A	-STEEL ANGLE, SIZE AS INDICATED
O51200.B	-ROOF DECK, 1/2"
O54000.FI	-COLD FORMED METAL FRAMING, 6" STUD AT 16" O.C.
O61000.C7	-TREATED 2x8
O61000.C9	-TREATED 2x12
O61000.C2	-WOOD BLOCKING, PRESSURE TREATED
O61000.M	-1/2" DIA. BOLT, COUNTERSUNK AT 16" O.C., STAGGERED
O61600.E2	-PLYWOOD ROOF SHEATHING, 3/4" T&G
O61600.A2	-PLYWOOD SHEATHING, 1/2" THICK
O61600.H2	-1/2" T&G F&W WOOD
O7113.A	-BITUMINOUS DAMPROOFING
O7200.B4	-1" RIGID INSULATION
O7200.B	-RIGID INSULATION
O72500.E	-BUILDING WRAP
O74113.B	-METAL FLASHING, STANDING SEAM PANEL
O74113.E2	-METAL FLASHING
O74113.E3	-SELF ADHERING SHEET
O74113.F3	-RIGID INSULATION, 1" THICK
O74113.GI	-2" ABS-MAAT G.P.P. SHEATHING, 1/2" THICK
O74113.J	-METAL GUTTER
O74113.L3	-METAL DOWNSPOUT, 5X5
O74213.A	-METAL WALL PANEL
O74213.C	-METAL SILL FLASHING
O74213.F	-METAL CLOSURE TRIM
O74213.P	-METAL CLOSURE CHANNEL, 16" O.C.
O74213.N	-METAL SOFFIT PANEL
O75423.D	-TPO MEMBRANE COLLATER FLASHING
O75423.N	-METAL TERMINATION BAR, FASTEN 12" O.C.
O75423.P	-COMPRESSIBLE TUBE
O76200.H	-2-PIECE METAL COUNTERFLASH
O77200.A	-SNOW GUARD
O77200.B	-BACKER ROD & SEALANT
O79200.D	-CONCRETE FRAMING, THERMALLY BROKEN
O84213.D	-ALUMINUM FRP DOOR
O84523.A	-FIBERGLASS-SANDWICH PANEL ASSEMBLY
O84523.C	-METAL SILL PAN
O84523.A5	-METAL SUB-FRAME
O8700.A	-THERMAL BREAK THRESHOLD
O89119.A	-FIXED, EXTRUDED ALUMINUM LOUVER (SEE MECHANICAL)
O89119.K	-METAL SILL PAN
O96513.A5	-2" RESILIENT TOP SET BASE
O9923.A1	-FRANT FINISH INTERIOR SYSTEM
31200.A	-POROUS FILL
31200.B	-COMPACTED FILL
32133.D	-CONCRETE SIDEWALK, 4" THICK
32133.D	-COMPRESSIBLE FILL



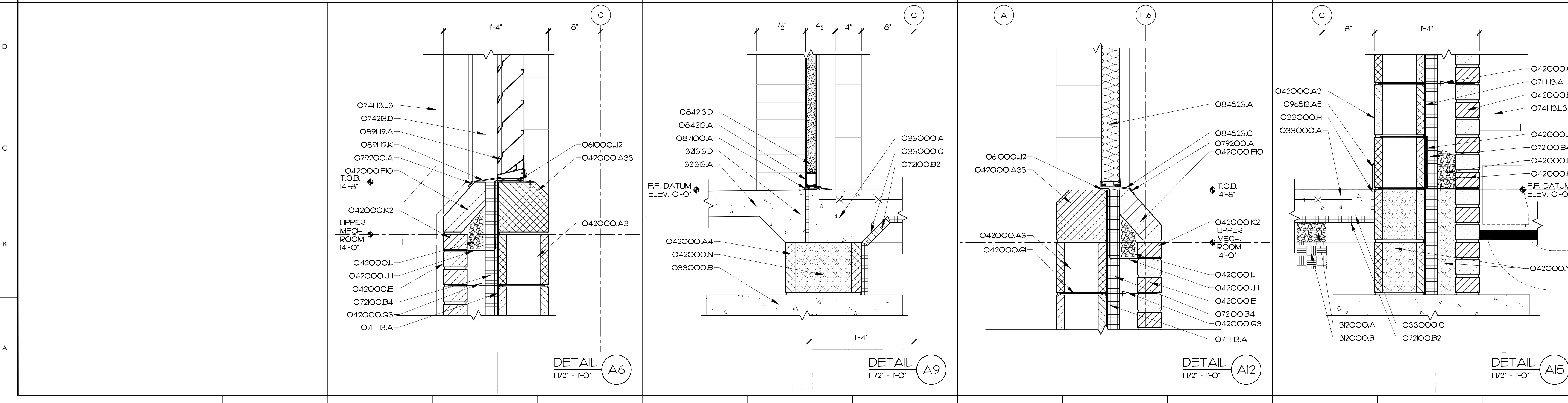
GENERAL NOTES

1. EXISTING TPO ROOF WARRANTED BY CARLISLE. #CMDI 143834

2. --- EXISTING 2-HOUR FIRE PARTITION

3. - - - - - NEW 2-HOUR FIRE WALL

SCO ID NO.17-16813-01C; NCCCS NO.2163



NO REVISION DATE

JOHN K. FARKAS REGISTERED ARCHITECT
#143834
2/14/2024

JKF
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE: **EXTERIOR DETAILS**

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

DRAWN: JRH

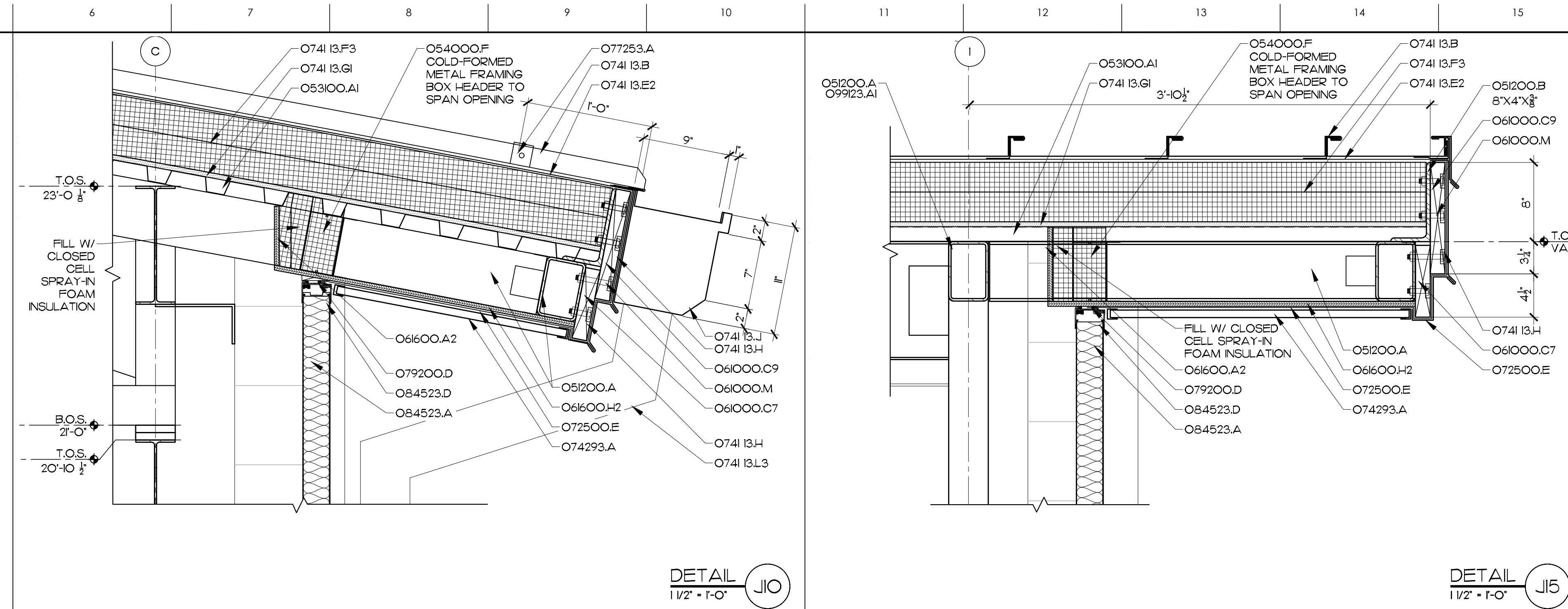
CHECKED: JKF

DATE: 5-20-2024

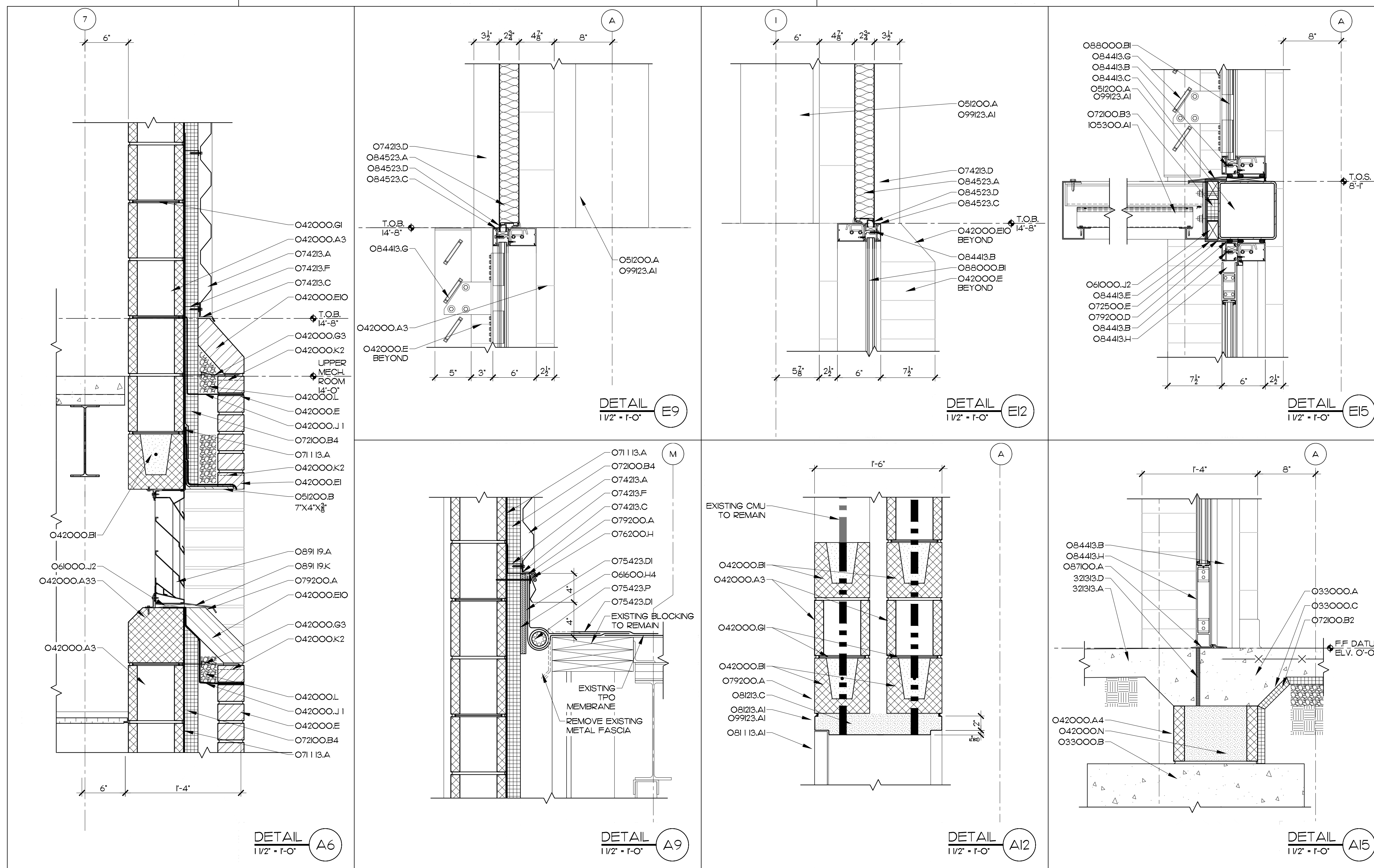
PROJECT NO.: 2024-06

A6.2

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- MATERIALS KEYING LEGEND**
- O33000.A - CONCRETE SLAB ON GRADE, SEE STRUCTURAL
 - O33000.B - CONCRETE FOOTING, SEE STRUCTURAL
 - O42000.A1 - VAPOR BARRIER
 - O42000.A3 - CONCRETE MASONRY UNIT, 8" BEVELED
 - O42000.A4 - CONCRETE MASONRY UNIT, 12"
 - O42000.B1 - CONCRETE MASONRY, BOND BEAM, 8"
 - O42000.B2 - FACE BRICK
 - O42000.B3 - FACE BRICK, SHELF COURSE SLL, SPECIAL SHAPE
 - O42000.G1 - HORIZONTAL JOINT REINFORC. AT 15' O.C. VERT.
 - O42000.G3 - HORIZONTAL JOINT REIN. AT 15' VERT. & BRICK TIE EYES AT 24' O.C. HORIZ.
 - O42000.J1 - TUB-WALL FABRIC FLASHING
 - O42000.K2 - WEEP SLOTS AT 15' O.C.
 - O42000.L - CAVITY DRAINAGE MATERIAL
 - O42000.M - STRUCTURAL STEEL, SEE STRUCTURAL DRAWINGS
 - O51200.B - STEEL ANGLE, SIZE AS INDICATED
 - O53000.A1 - ROOF DECK, 1/2"
 - O54000.F - COLD-FORMED METAL FRAMING, 6" STD.
 - O61000.J2 - WOOD BLOCKING, PRESSURE TREATED - TREATED 2X8
 - O61000.C9 - WOOD BLOCKING, PRESSURE TREATED - 1/2" DIA. BOLT COUNTERSUNK AT 15' O.C., STAGGERED
 - O61000.H2 - PLYWOOD SHEATHING, 1/2" THICK
 - O61000.H4 - 1/2" TREATED PLYWOOD
 - O7113.A - ALUMINUM DAVERPOOFING
 - O72000.B3 - 1/2" RIGID INSULATION
 - O72500.E - BUILDING WRAP
 - O74113.B - METAL ROOF, STANDING SEAM PANEL
 - O74113.F5 - SELF ADHESING SHEET
 - O74113.G1 - RIGID INSULATION, 1" THICK
 - O74113.H - GLASS MAT GYP. SHEATHING, 1/2" THICK
 - O74113.J - METAL FASCIA
 - O74113.L3 - METAL DOWNSPOUT, 5X5
 - O7423.A - METAL WALL PANEL
 - O7423.C - METAL SILL FLASHING
 - O7423.D - METAL CLOSURE TRIM
 - O7423.E - 2" METAL FLURRING CHANNEL, 16" O.C.
 - O7423.F - METAL SOFFIT PANEL
 - O75423.D1 - TPO MEMBRANE COUNTER FLASHING
 - O75423.P - COMPRESSIBLE TUBE
 - O75423.H - SEEPAGE RESISTANT COUNTERFLASH
 - O75423.A - SNOW GUARD
 - O75423.A - SEALANT
 - O75423.D - BACKER ROD & SEALANT
 - O8113.A1 - HOLLOW METAL DOOR (FIRE-RATED)
 - O813.A1 - HOLLOW METAL FRAME (FIRE-RATED)
 - O813.C - GROUT, SOLID
 - O8443.B - ALUMINUM CURTAIN WALL FRAMING
 - O8443.C - METAL SILL PAN
 - O8443.E - METAL TRIM
 - O8443.G - HORIZONTAL SUNSHADE SYSTEM
 - O8443.H - ALUMINUM SILE AND PAL DOOR
 - O84523.A - FIBERGLASS SANDWICH PANEL ASSEMBLY
 - O84523.C - METAL SILL PAN
 - O84523.D - METAL SUB-FRAME
 - O8700.A - THERMAL BREAK THRESHOLD
 - O88000.B1 - INSULATING GLASS-LOW E
 - O8919.A - FIXED, EXTRUDED ALUMINUM LOUVER (SEE MECHANICAL)
 - O99123.A1 - PAINT FINISH, INTERIOR SYSTEM
 - O99123.D - COMPRESSIBLE FILL
 - O99123.H - ALUMINUM CANOPY ASSEMBLY, CANTILEVERED



GENERAL NOTES

- EXISTING TPO ROOF WARRANTED BY CARLISLE. #QMDI 143834
- EXISTING 2-HOUR FIRE PARTITION
- NEW 2-HOUR FIRE WALL

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

SEAL: JOHN K. FARKAS REGISTERED ARCHITECT 14/2024 5822

JKF ARCHITECTURE

625 LYNDDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **EXTERIOR DETAILS**

SCALE: 1 1/2" = 1'-0" DRAWING NO. MCZ

CHECKED: JK F DATE: 5-20-2024 PROJECT NO. 2024-06

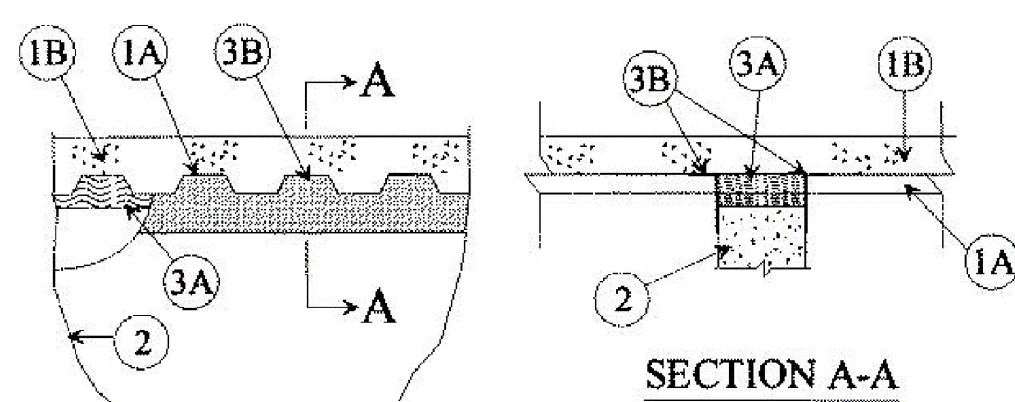
A6.3

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System No. HW-D-0026

May 16, 2008

Assembly Rating — 1, 2, 3 and 4 Hr (See Item 2)
Nominal Joint Width — 3/4 In.
Class II Movement Capabilities — 33% Compression or Extension



1. **Floor Assembly** — The fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the floor assembly shall be equal to or greater than the hourly rating of the wall assembly and shall include the following construction features:
A. **Steel Floor and Form Units*** — Max 3 in. (76 mm) deep galv steel fluted units.
B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly** — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly and shall include the following construction features:
A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.
B. **Roof Insulation** — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
C. **Roof Covering*** — Hot-mopped or cold-application materials compatible with insulating concrete.

2. **Wall Assembly** — Min 4-7/8, 6-1/8, 7-3/8 and 8-5/8 in. (124, 156, 187 and 219 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete for 1, 2, 3 and 4 hr rated assemblies, respectively. Wall may also be constructed of any UL Classified **Concrete Blocks***.
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System** — Max separation between bottom of floor and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. The joint system consists of a forming material and a fill material as follows:

A. **Forming Material*** — Min 4-7/8 in. (124 mm) thickness of min 4 pcf (64 kg/m³) density mineral wool batt insulation cut to the shape of the fluted deck, approx 25 percent larger than the area of the flutes with additional min 4-7/8 in. (124 mm) thick by 1 in. (25 mm) high sections at the bottom of the shapes to completely fill the 3/4 in. (19 mm) gap between the top of the wall and bottom of the steel floor units. Mineral wool to be compressed and firmly packed into the flutes and the gap between the top of the wall and bottom of the steel floor units. Flush with both sides of wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing
ROCK WOOL MANUFACTURING CO — Delta Board
ROCKWOOL — Safe
THERMAFIBER INC — Type SAF
B. **Fill, Void or Cavity Material*** — Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material sprayed or brushed on each side of the wall in the flutes of the steel floor units and between the top of the wallboard and the bottom of the steel floor units to completely cover mineral wool and to overlap a min of 1 in. (25 mm) onto wall and steel deck on both sides of wall.
PASSIVE FIRE PROTECTION PARTNERS — 3500SI, 5100SP

Fire Resistance Ratings – ANSI/UL 904

Design No. U904

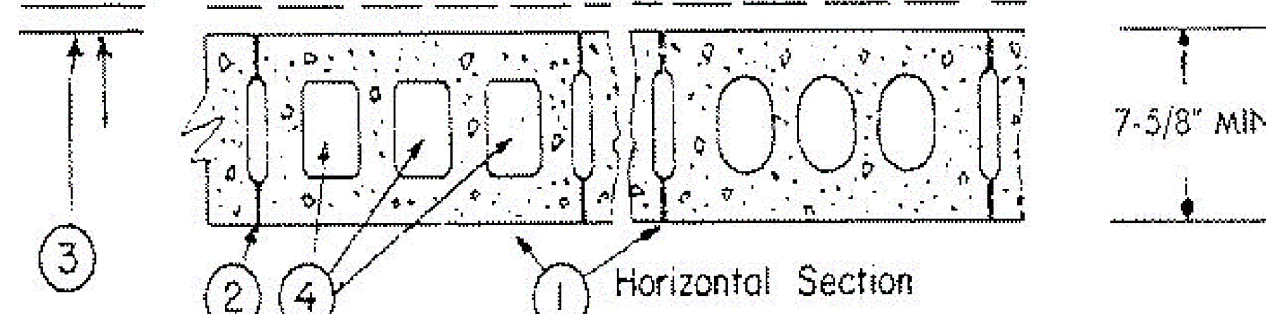
April 14, 2023

Bearing Wall Rating — 3 HR.

Nonbearing Wall Rating — 3 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BSUY** or **BSUY7**.

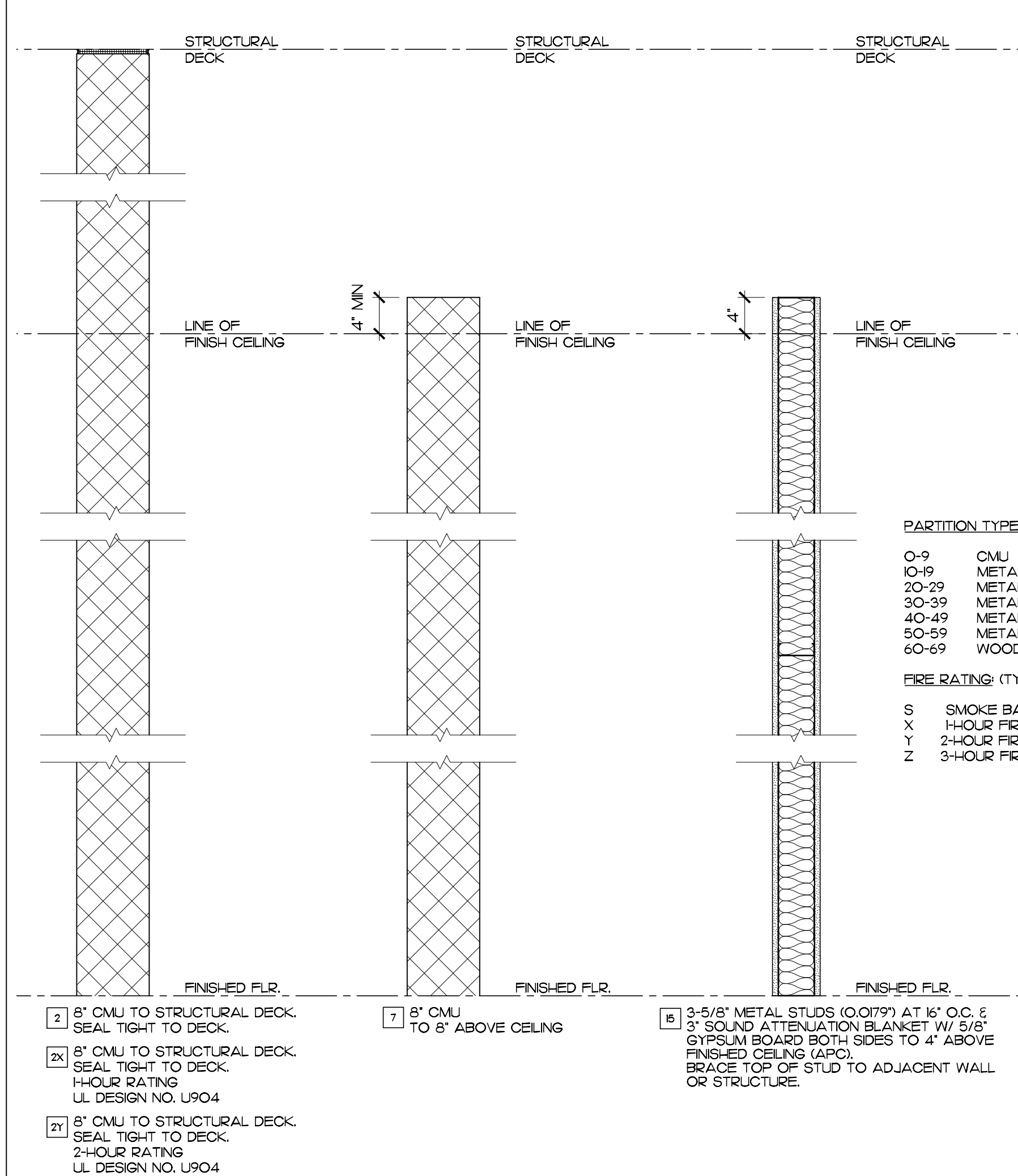
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



- 1 **Concrete Blocks*** — Various designs, Classification C-3 (3 Hr). See **Concrete Blocks** category for list of eligible manufacturers.
 - 2 **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
 - 3 **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).
 - 4 **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hr to Classification.
 - 5 **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
 - ATLAS ROOFING CORP** — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield # PanelCast, EnergyShield # and EnergyShield # XR
 - DUPONT DE NEMOURS, INC.** — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax Int Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-IR™ ci Insulation, Thermax Butler Sheath Wall Insulation Board and Thermax Motton Heavy Duty Insulation Board
 - FIRESTONE BUILDING PRODUCTS CO L L C** — "Evermerge" CI Foil Exterior Wall Insulation and "Evermerge" CI Glass Exterior Wall Insulation
 - HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC** — Type "Xci-Class A", "Xci 286", "Xci Foil (Class A)", "RMX, A BUSINESS UNIT OF SIKA CORPORATION" — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"
 - JOHNS MANVILLE** — Type "AP Foil-faced Foam Sheathing"
 - "SA, Building Units" — As an alternate to Item 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
 - ATLAS ROOFING CORP** — EnergyShield # Ply
 - RMX, A BUSINESS UNIT OF SIKA CORPORATION** — "Thermasheath-Si", "ECOBASiCi", "ThermaBase-C", "ECOMAXci FR Ply", "ECOMAXci Ply".
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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UL DETAILS G9 N.T.S.



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 FLURRED/ ONE-SIDED GYPSUM
60-69	WOOD STUD/ SINGLE LAYER GYPSUM

FIRE RATING (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

MATERIALS KEYING LEGEND

O42000.A3	- CONCRETE MASONRY UNIT, 8"
O51200.A	- STRUCTURAL STEEL, SEE STRUCTURAL DRAWINGS
O641.6.B	- PLASTIC LAMINATE, 3/4" THICK
O78413.A	- PENETRATION FIRE STOPPING
O79200.E	- COMPRESSIVE FILL
O811.13.A1	- HOLLOW METAL DOOR (FIRE-RATED)
O81213.A1	- HOLLOW METAL FRAME (FIRE-RATED)
O81213.C	- GROUT SOLID
O99123.A1	- PAINTED FINISH, INTERIOR SYSTEM
102800.H	- MIRROR UNIT, 18X32 (MOUNT 40" MAX TO REFLECTING SURFACE)
123616.A	- SIMULATED STONE COUNTERTOP
123661.C	- SIMULATED STONE BACKSPASH
260000.B	- INTERIOR LIGHT FIXTURE

- GENERAL NOTES**
- SEE FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL PIPE, DUCT, ETC. THROUGH - PENETRATION FIRESTOP SYSTEMS. ALL PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH THOSE DETAILS.
 - PROVIDE CEMENTIOUS TILE BACKING PANEL IN LIEU OF GYPSUM BOARD WHERE CERAMIC WALL TILE IS SCHEDULED.
 - PROVIDE MOISTURE-RESISTANT GYPSUM BOARD IN ALL TOILET ROOMS, JANITORS CLOSETS, MECHANICAL ROOMS & WET AREAS IN LIEU OF GYPSUM BOARD INDICATED IN PARTITION TYPES.
- EXISTING 2-HOUR FIRE PARTITION
- - - - NEW 2-HOUR FIRE WALL

KEY PLAN

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE

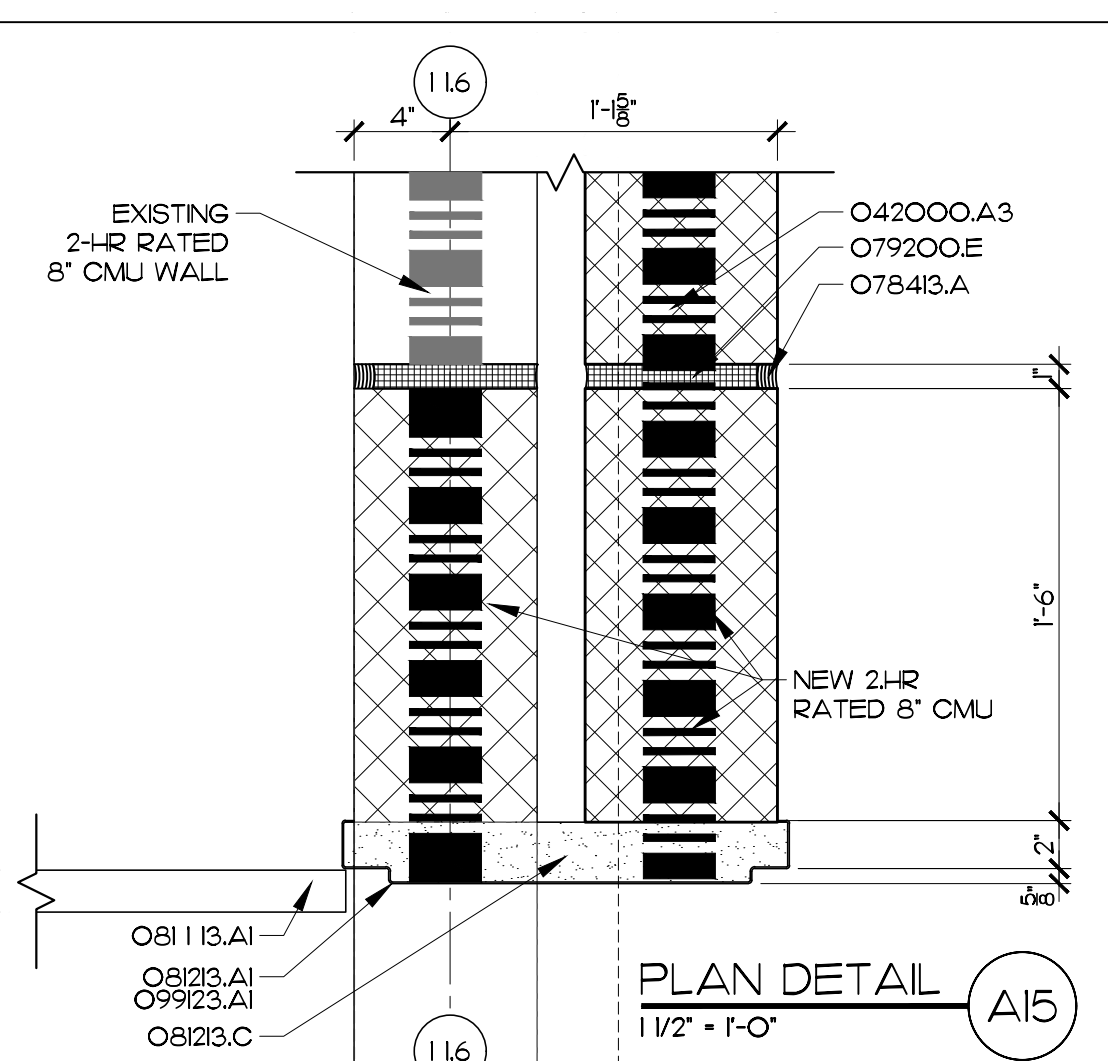
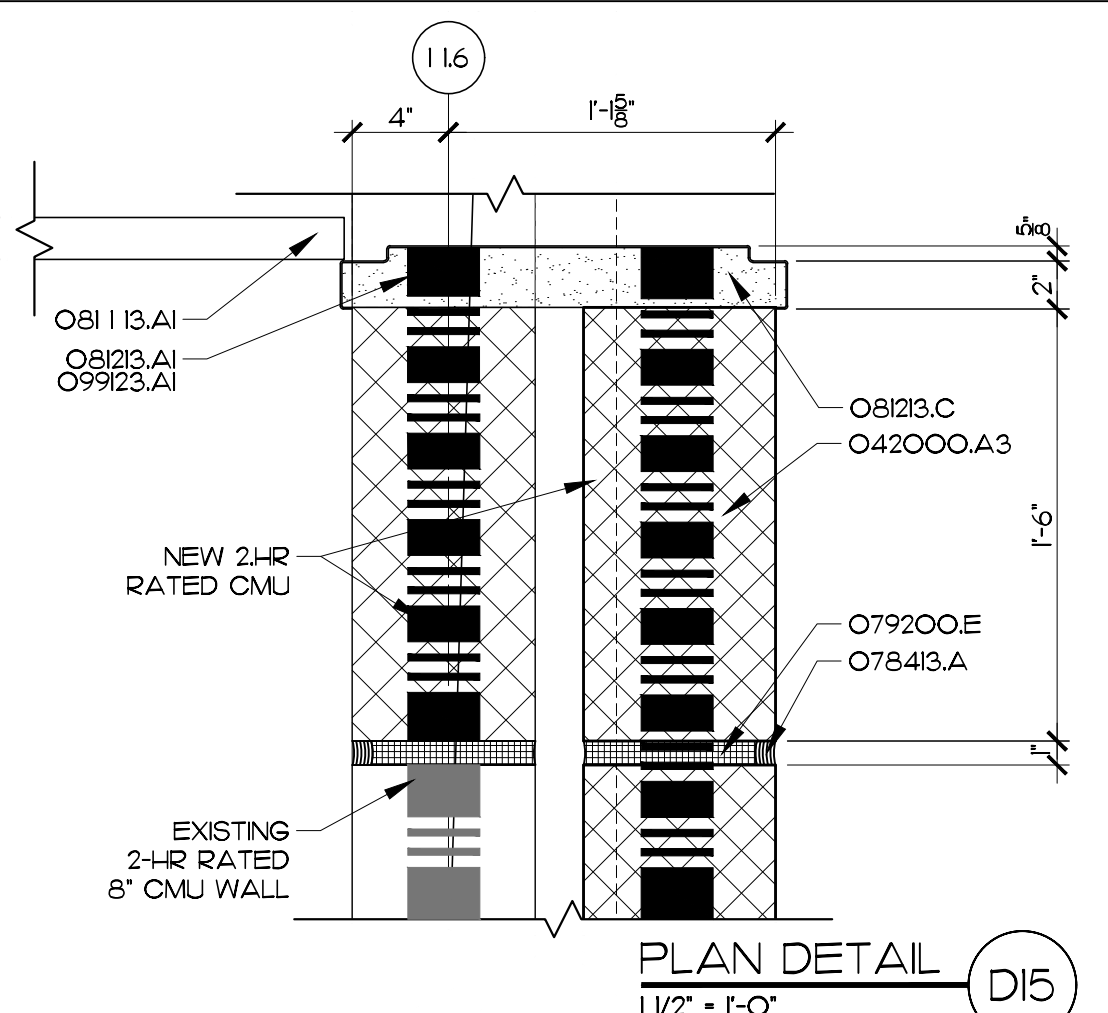
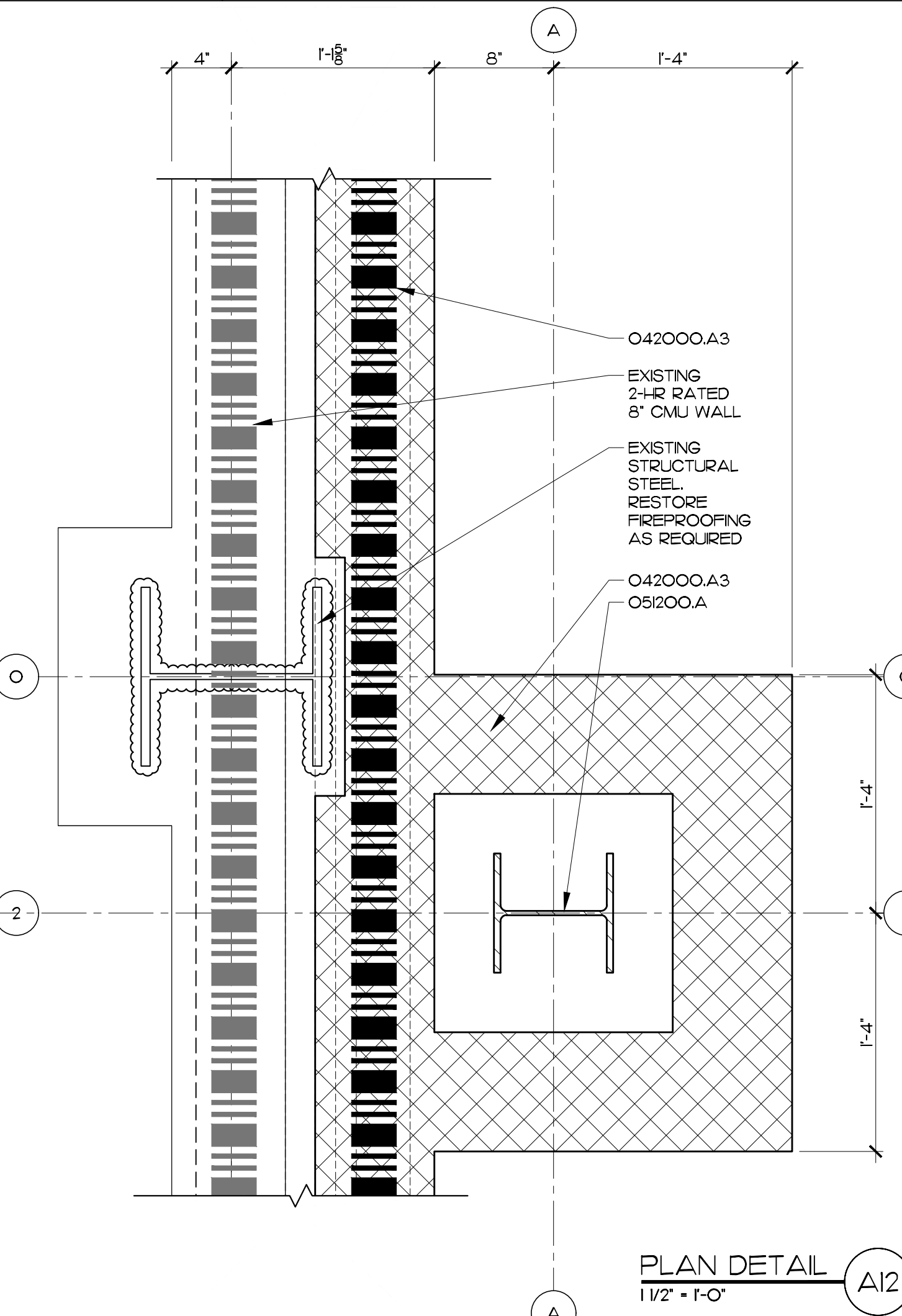
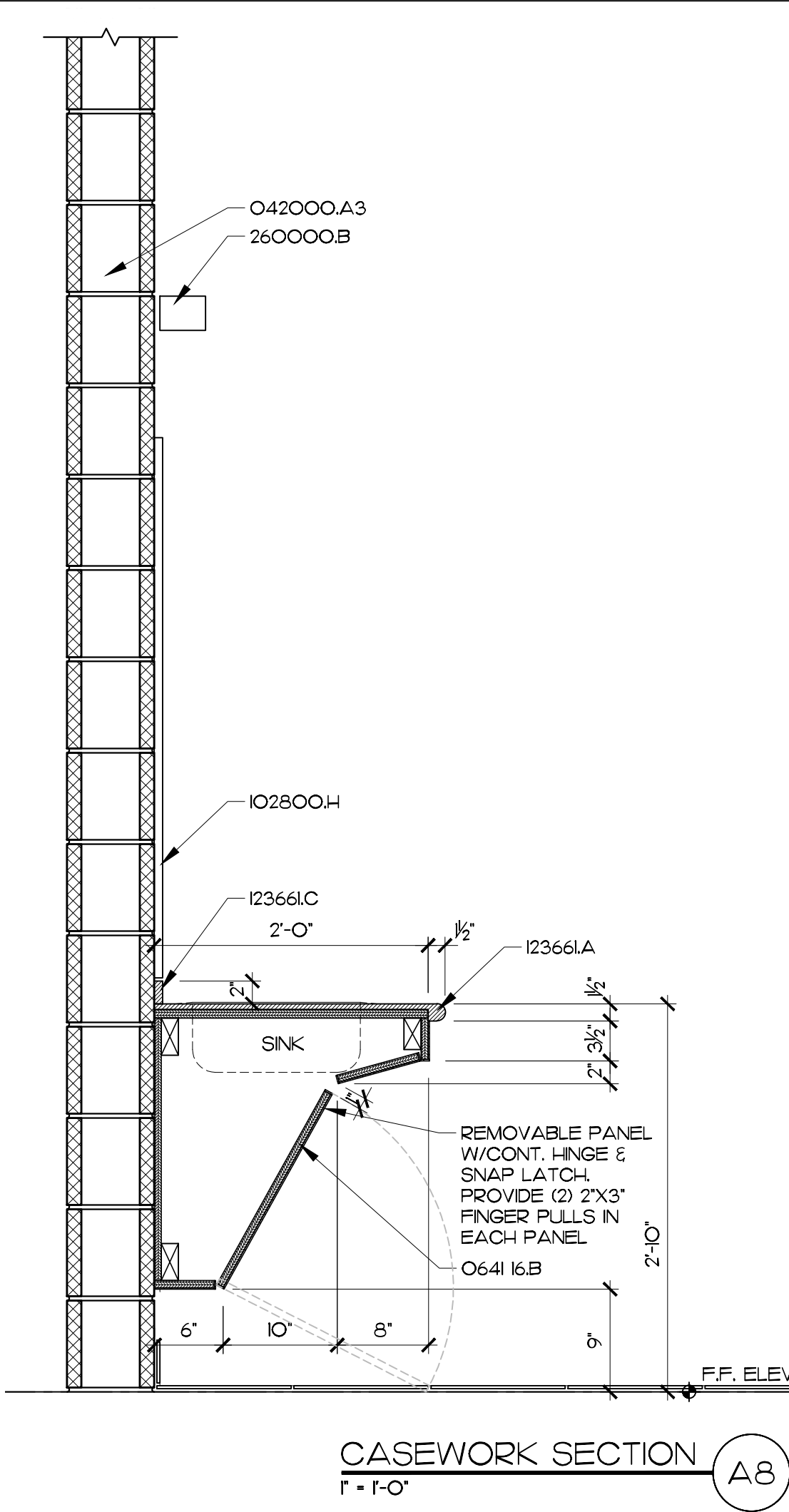
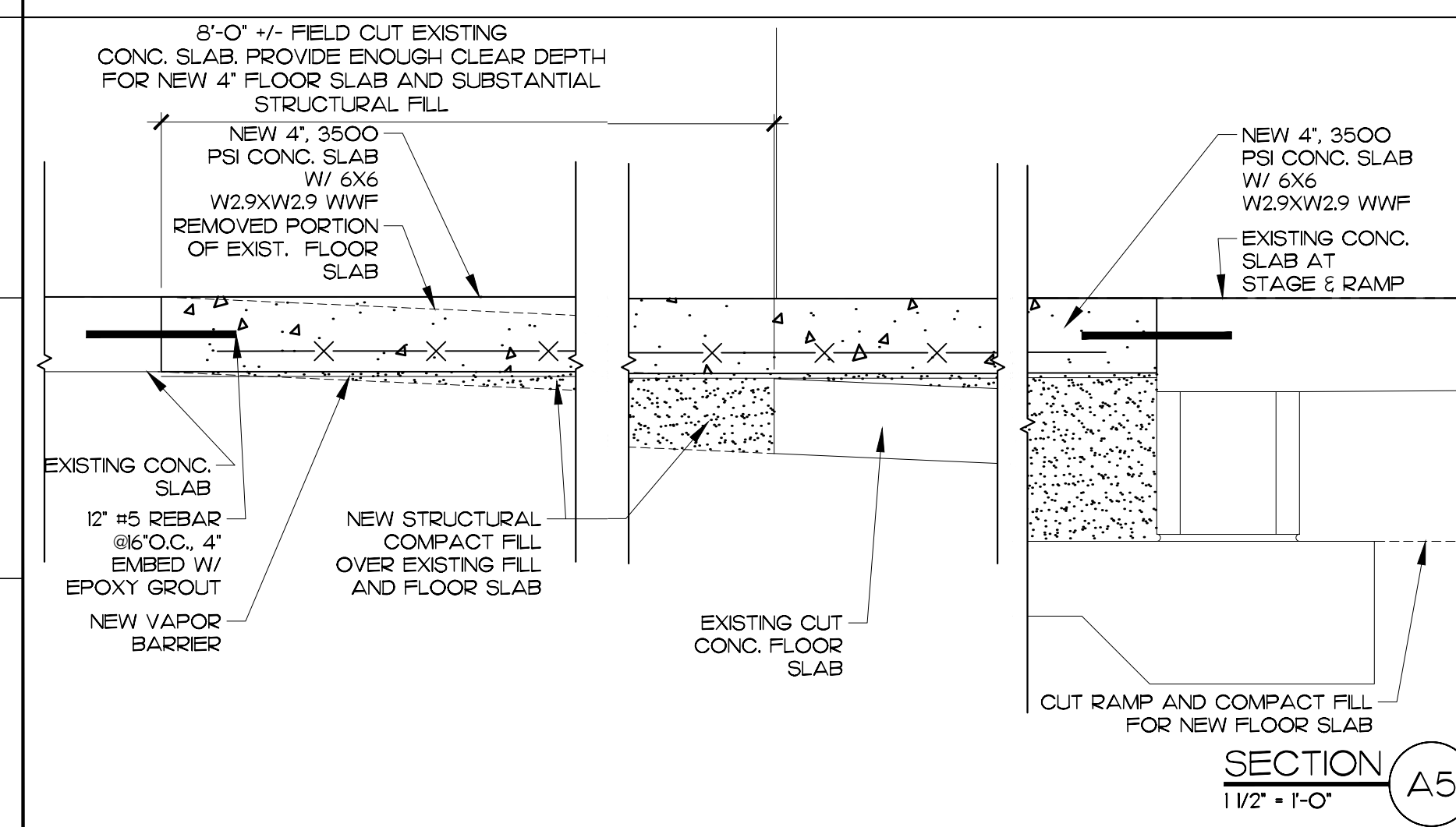
JOHN K. FARKAS ARCHITECTURE
614/922-5522
NORTH CAROLINA STATE REGISTERED ARCHITECT
L.M. ENLITTE

425 LYNDALE CT, SUITE F, GREENVILLE, NC 27638 252-355-1048
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **PARTITION TYPES, INTERIOR DETAILS**

SCALE: AS NOTED	DRAWING NO:
DRAWN: MCZ	
CHECKED: JKF	
DATE: 5-20-2024	
PROJECT NO.: 2024-06	

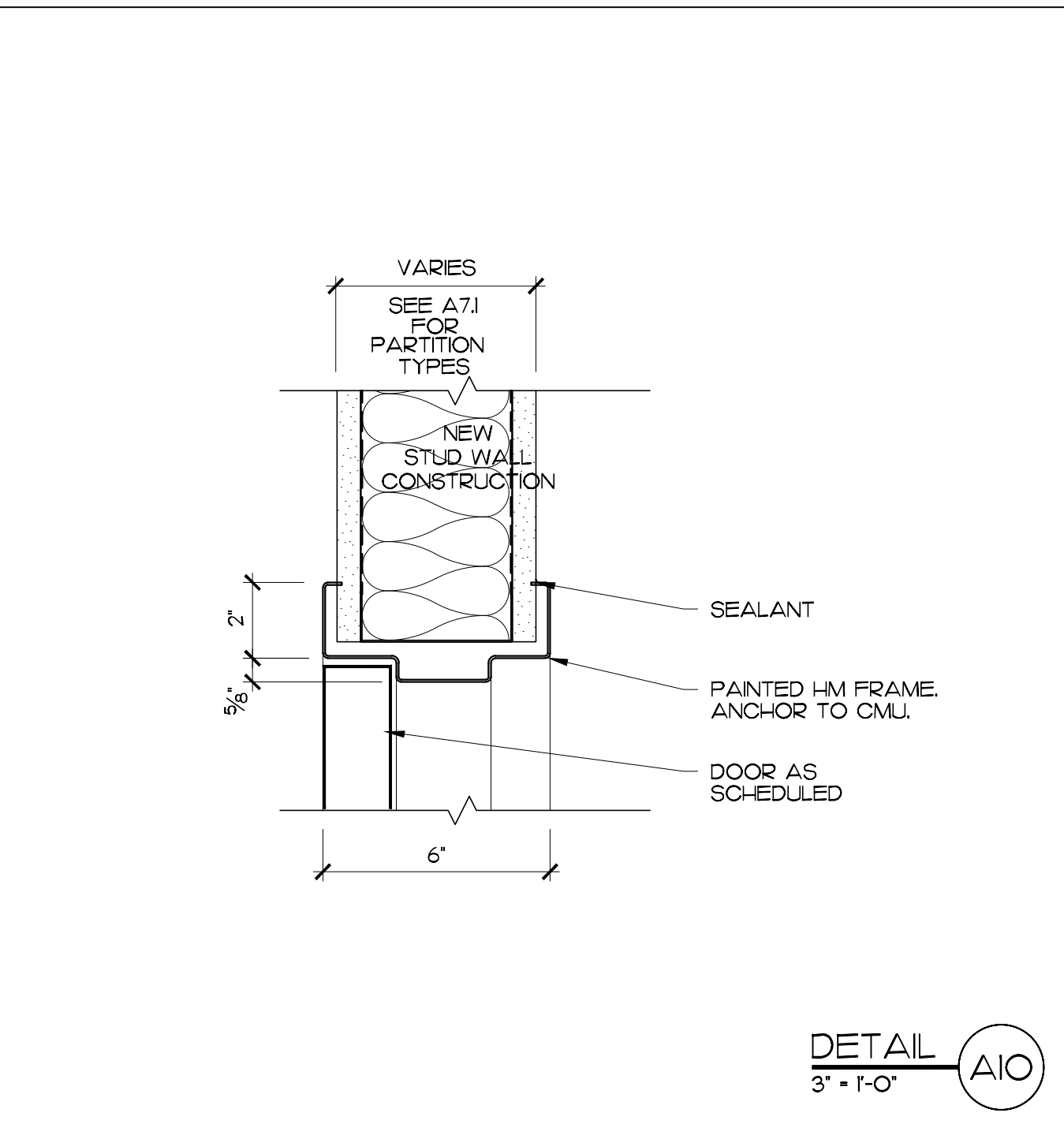
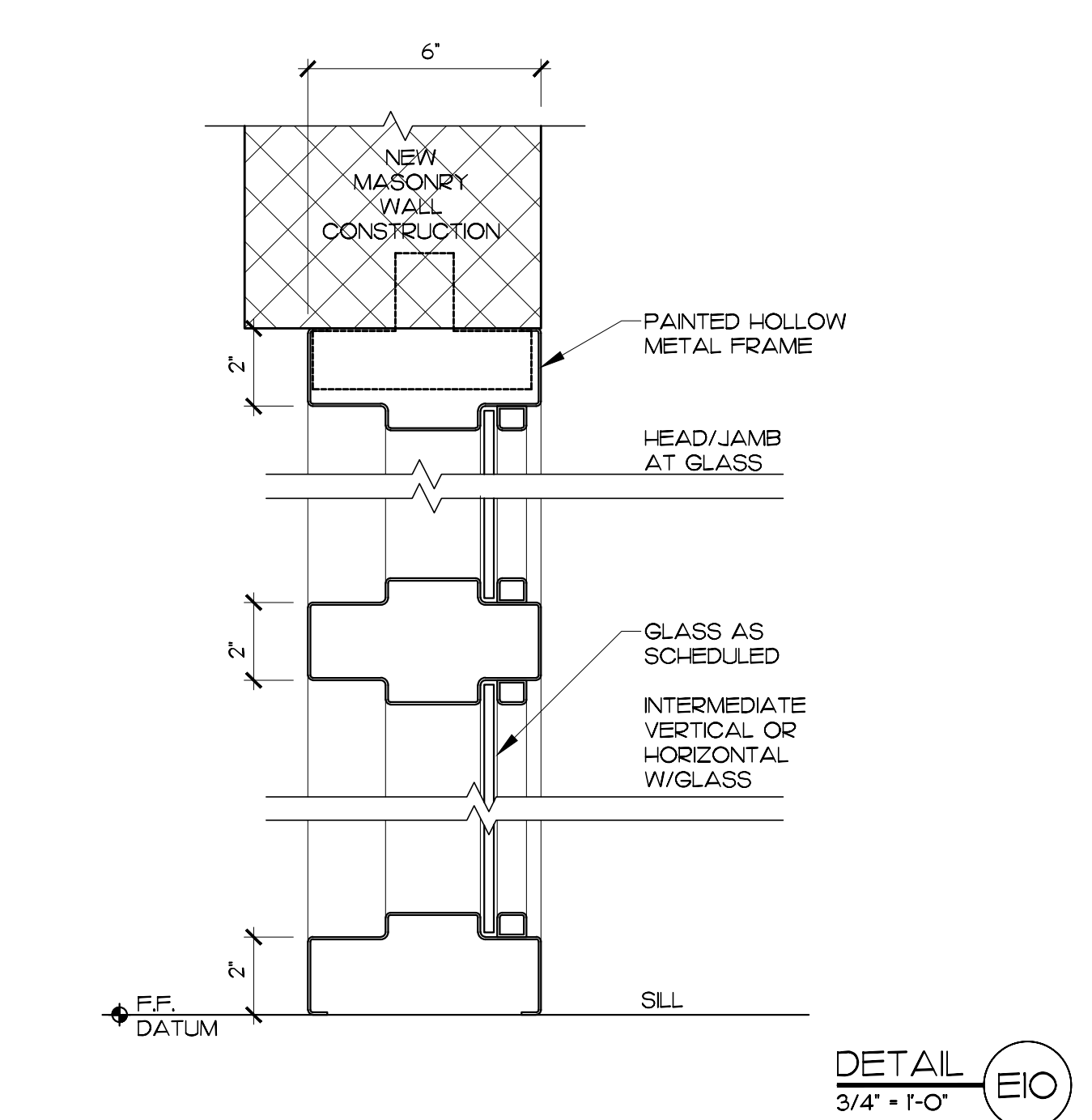
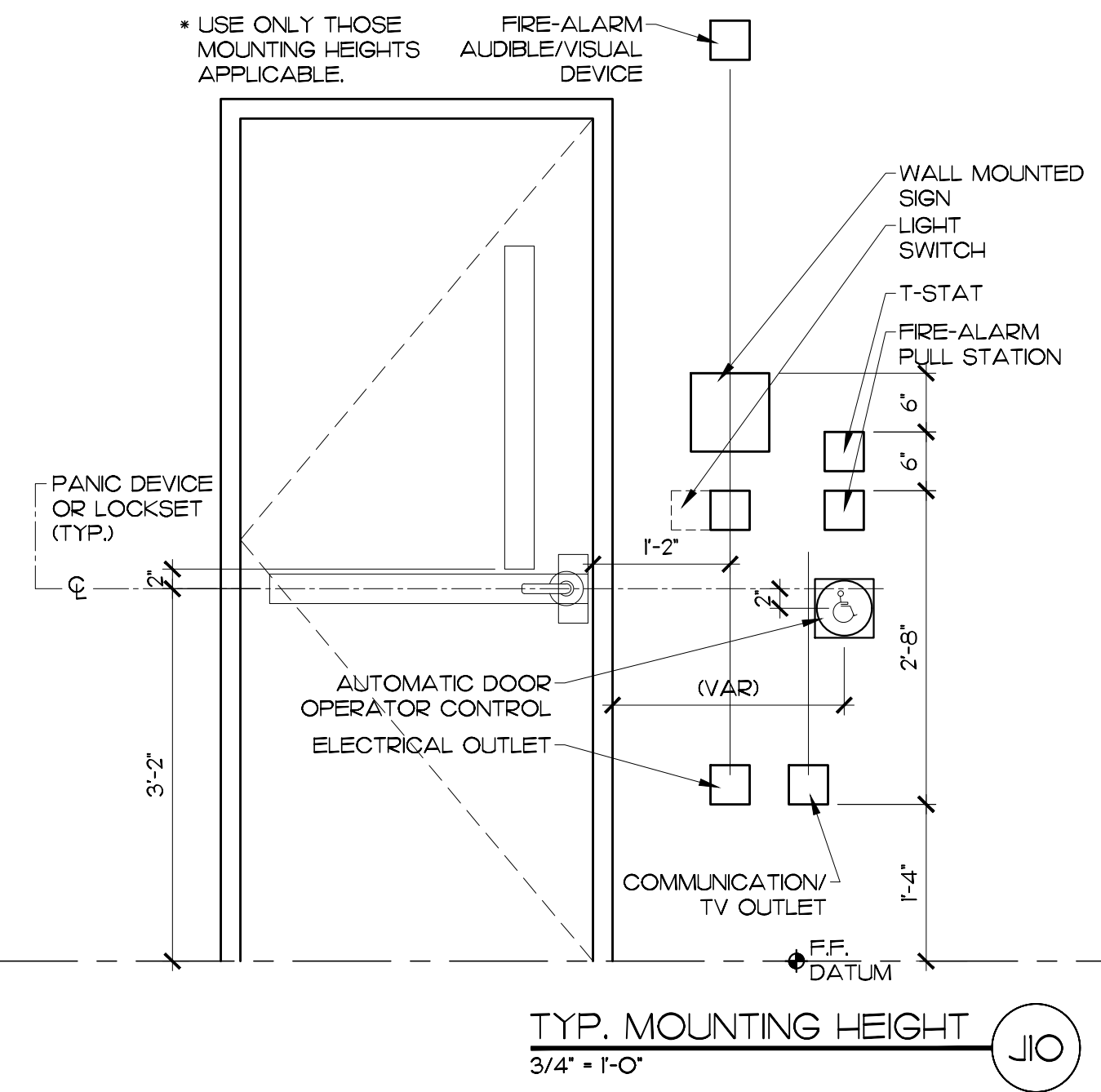
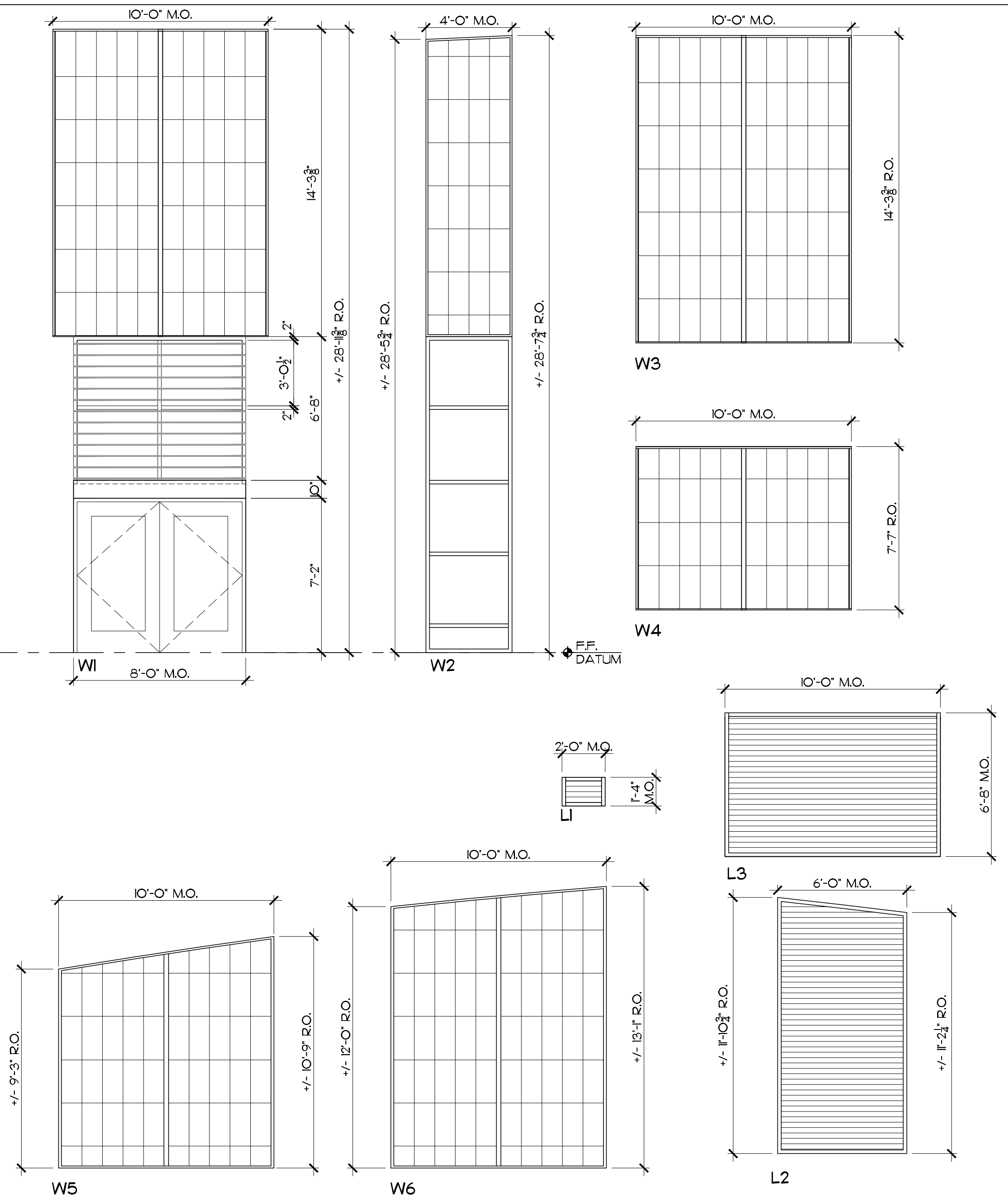
A7.1



WINDOW & LOUVER SCHEDULE

WINDOW GROUP NO.	WINDOW UNIT SIZE (W X H)	WINDOW TYPE	MATERIAL	FINISH	FRAME ELEVATION	UNIT THICKNESS	DETAILS			GLASS	FIRE RATING (HRS)	REMARKS
							J	H	S			
W1	10'-0" X +/-25'-1 3/8"	ALUMINUM FIXED / TRANS. FIBERGLASS PANELS	AL / TFWP	AN	W1	4-1/2"	E10 A61	A4 A32	A4 A32	LOW E	TRANSLUCENT FIBERGLASS-SANDWICH WALL PANEL (TFWP)	
W2	4'-0" X VARIES	ALUMINUM FIXED / TRANS. FIBERGLASS PANELS	AL / TFWP	AN	W2	4-1/2"	S110 E10 A61	A7 A32	A7 A32	LOW E	TRANSLUCENT FIBERGLASS-SANDWICH WALL PANEL (TFWP)	
W3	10'-0" X +/-14'-3 3/8"	TRANSLUCENT FIBERGLASS PANELS	AL TFWP	-	W3	2-3/4"	A11 A61	J15 A62	A12 A62	-	TRANSLUCENT FIBERGLASS-SANDWICH WALL PANEL (TFWP)	
W4	10'-0" X 7'-7"	TRANSLUCENT FIBERGLASS PANELS	AL TFWP	-	W4	2-3/4"	A11 A61	J10 A63	A12 A62	-	TRANSLUCENT FIBERGLASS-SANDWICH WALL PANEL (TFWP)	
W5	10'-0" X VARIES*	TRANSLUCENT FIBERGLASS PANELS	AL TFWP	-	W5	2-3/4"	A4 A61	J15 A61	A12 A61	-	TRANSLUCENT FIBERGLASS-SANDWICH WALL PANEL (TFWP)	
W6	10'-0" X VARIES*	TRANSLUCENT FIBERGLASS PANELS	AL TFWP	-	W6	2-3/4"	A11 A61	J15 A61	A12 A61	-	TRANSLUCENT FIBERGLASS-SANDWICH WALL PANEL (TFWP)	
L1	24" X 16"	FIXED	AL	AN	L1	4"	E10 A62	E10 A62	A6 A62	-		
L2	6'-0" X VARIES*	FIXED	AL	AN	L2	4"	E6 A62	E6 A62	A6 A62	-		
L3	10'-0" X 6'-8"	FIXED	AL	AN	L3	4"	E6 A62	E6 A62	A6 A62	-		

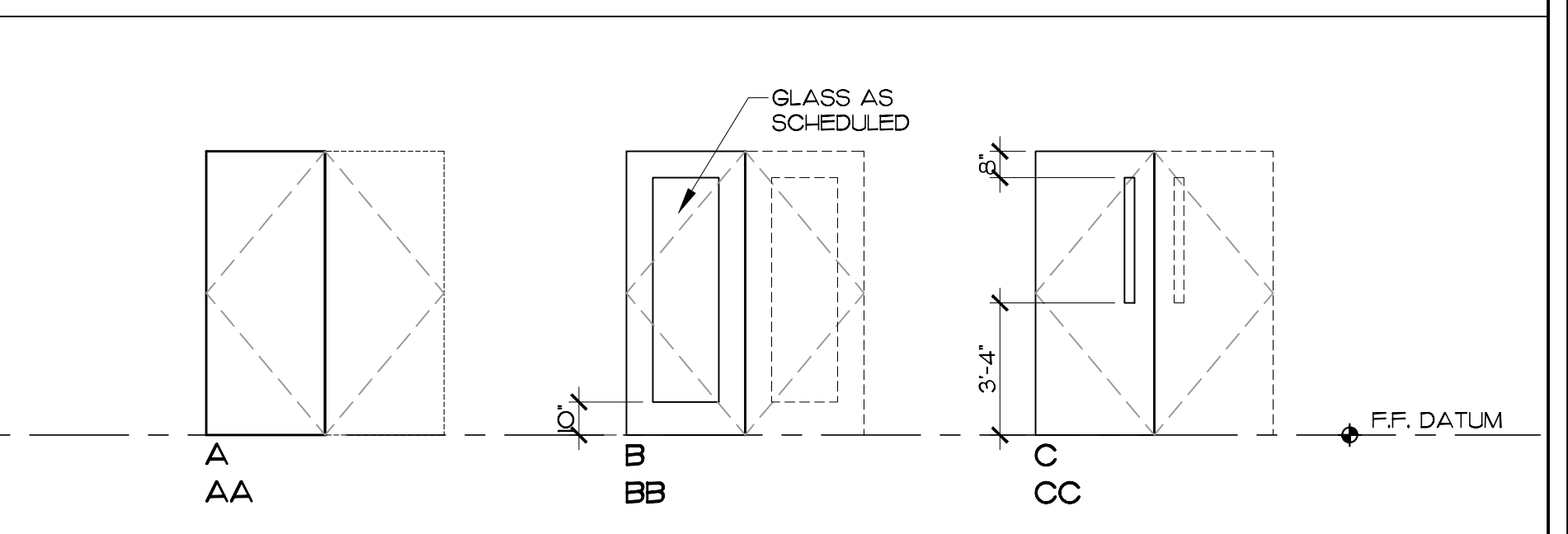
WINDOW TYPES



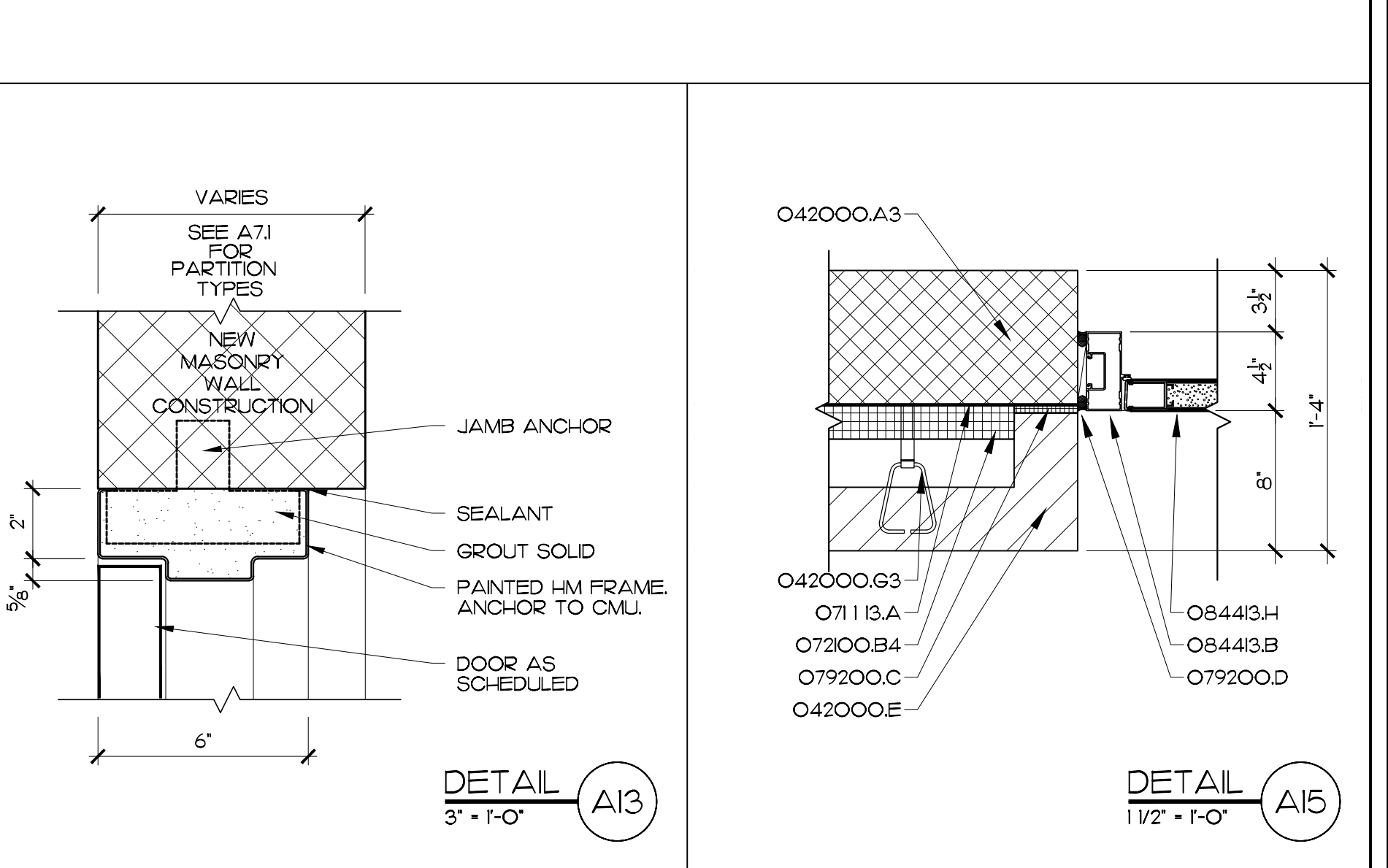
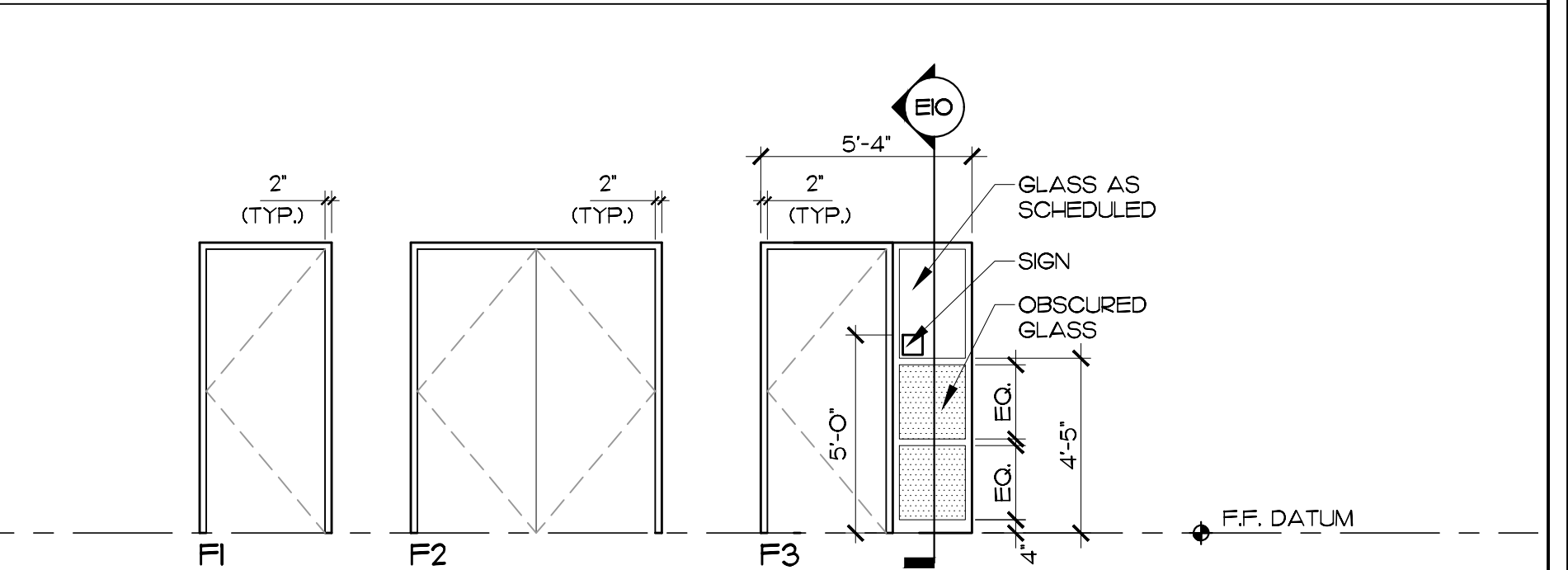
DOOR SCHEDULE

DOOR GROUP NO.	DOOR OPENING SIZE (W X H)	DOOR			FRAME			GLASS	FIRE RATING (HRS)	REMARKS			
		DOOR TYPE	THICKNESS (1-3/4" U.N.O.)	MATERIAL	FINISH	MATERIAL	FINISH						
1	(2) 3'-9" X 7'-2"	BB	1-3/4"	AL	AN	W1	AL	AN	E10 A61	E10 A63	E10 A63	LOW E	-
2	(2) 3'-0" X 7'-2"	AA	1-3/4"	AL	FRP	F2	AL	AN	A15	E9 A62	A9 A62	-	-
3	+/- 3'-0" X 7'-2"	BB	1-3/4"	AL	AN	F2	AL	AN	E11 A61	-	-	LOW E	NEW ALUM. DOOR N EXIST. LM FRAME W/ NEW ALUM. RETROFIT FRAME
4	(2) 3'-0" X 7'-2"	CC	1-3/4"	SWC	TF	F2	HM	P	A15 A71	A12 A63	-	5/16" FIRE RATED TEMP.	90M
5	3'-0" X 7'-2"	A	1-3/4"	SWC	TF	F1	HM	P	A13	A13	-	-	-
6	3'-0" X 7'-2"	A	1-3/4"	SWC	TF	F3	HM	P	E10	E10	-	5/16" FIRE RATED TEMP.	20M
7	(2) 3'-0" X 7'-2"	AA	1-3/4"	SWC	TF	F2	HM	P	A13	A13	-	-	-
8	(2) 2'-8" X 7'-2"	AA	1-3/4"	SWC	TF	F2	HM	P	A13	A13	-	-	-
9	(2) 3'-0" X 7'-2"	AA	1-3/4"	SWC	TF	F2	HM	P	A10	A10	-	-	-

DOOR TYPES



FRAME TYPES



MATERIALS KEYING LEGEND

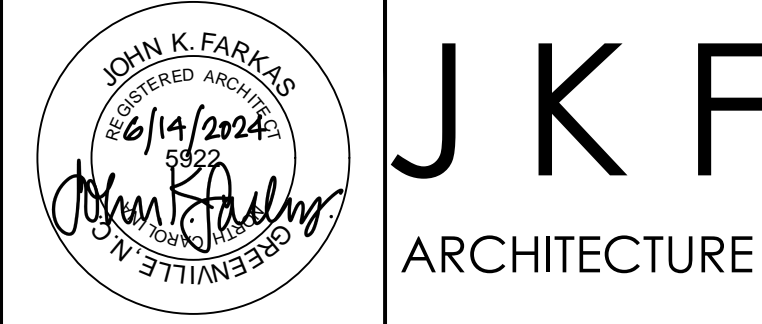
- 042000.A3 - CONCRETE MASONRY UNIT, 8"
- 042000.E - FACE BRICK
- 042000.G3 - HORIZONTAL JOINT REIN. AT 16" VERT. 24" O.C. HORIZ.
- 071113.A - BITUMINOUS DAMPROOFING
- 072000.B4 - 2" RIGID INSULATION
- 079200.C - COMPRESSIBLE SEALER W/ADHESIVE
- 079200.D - BACKER ROD & SEALANT
- 084413.B - ALUMINUM CURTAIN WALL FRAMING
- 084413.H - ALUMINUM STILE AND RAIL DOOR

GENERAL NOTES

KEY PLAN

SCO ID NO.17-16813-01C; NCCCS NO.2163

NO	REVISION	DATE



625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
 CLINTON, NC

DRAWING TITLE

WINDOW & DOOR SCHEDULES & DETAILS

SCALE	AS NOTED
DRAWN	MCZ
CHECKED	JKF
DATE	5-20-2024
PROJECT NO.	2024-06

A8.1

GENERAL STRUCTURAL NOTES:

- 1. GENERAL NOTES
1.1. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR...
1.2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
1.3. COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.
...
2. FOUNDATION
2.1. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
2.2. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
...
3. REINFORCED CONCRETE MASONRY
3.1. LOAD-BEARING MASONRY PIERS OR WALLS, FOUNDATION WALLS, AND ANY OTHER MASONRY SO DESIGNATED ON THE DRAWINGS, ARE CONSIDERED TO BE STRUCTURAL MASONRY.
3.2. COMPRESSIVE STRENGTH OF MASONRY UNITS:
SOLID CLAY UNITS 8250 PSI
CONCRETE UNITS 1900 PSI ON NET AREA
MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY (Fm) IS 1,900 PSI.
...
4. CONCRETE
4.1. ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES UNLESS OTHERWISE NOTED, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE.
...
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- 5. STRUCTURAL STEEL
5.1. DETAILING OF STRUCTURAL STEEL CONNECTIONS, MUST BE CONSISTENT WITH RECOGNIZED, PUBLISHED METHODS, SUCH AS THE "AISC STEEL CONSTRUCTION MANUAL, 16TH EDITION", "DETAILING FOR STEEL CONSTRUCTION", OR "VOLUME II CONNECTIONS MANUAL OF STEEL CONSTRUCTION".
5.2. MEMBERS AND CONNECTIONS NOT FULLY DEVELOPED ON THE CONTRACT DRAWINGS, AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT SHOWN ON THE CONTRACT DRAWINGS, SHALL BE DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, AND DETAILED ON THE SHOP DRAWINGS.
...
6. NON-COMPOSITE METAL FLOOR DECK
6.1. STEEL FLOOR DECK SHALL BE 1.0C24, 24 GAGE, GALVANIZED, NON-COMPOSITE FORM DECK AS PER STEEL DECK INSTITUTE (SDI) SPECIFICATIONS.
6.2. FLOOR DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
MOMENT OF INERTIA, I 0.057 IN^4/FT. WIDTH
SECTION MODULUS, Sx (TOP OF DECK) 0.103 IN^3/FT. WIDTH
SECTION MODULUS, Sx (BOT. OF DECK) 0.098 IN^3/FT. WIDTH
...
7. METAL ROOF DECK
7.1. METAL ROOF DECK SHALL BE CUT TO PROVIDE A MINIMUM THREE-SPAN CONDITION.
7.2. METAL ROOF DECK SHALL BE SECURELY WELDED THROUGH THE DECK ONTO THE SUPPORTING MEMBERS WITH 3/8" DIAMETER PUDDLE WELDS AT 12" O.C. (36/4 PATTERN). WELDING WASHERS ARE REQUIRED FOR ALL DECK WITH A THICKNESS LESS THAN 22 GA. USE SPACING OF 6" O.C. AT ROOF PERIMETER.
...
8. DELEGATED DESIGN
8.1. ITEMS INDICATED TO BE DESIGNED BY OTHERS SHALL BE DESIGNED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. ITEMS REQUIRING DELEGATED DESIGN ARE INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
8.2. SUBMIT CALCULATIONS AND DRAWINGS FOR ANY ITEMS DESIGNED BY OTHERS, TO ENGINEER OF RECORD FOR REVIEW.

STRUCTURAL DESIGN CRITERIA:

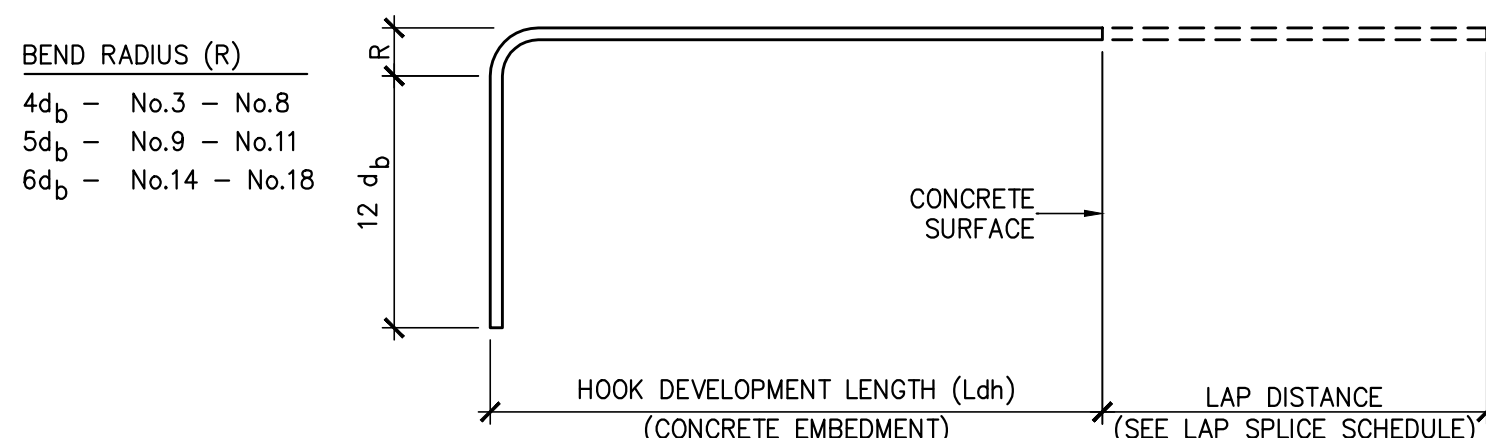
- 1. DESIGN LOADS:
1.1. ROOF DEAD LOAD MAX MIN (FOR UPLIFT)
ROOF MEMBRANE & INSULATION 4 PSF 2 PSF
SHEATHING 3 PSF 2 PSF
ROOF FRAMING 5 PSF 3 PSF
PIPING, DUCT, ETC. 8 PSF 0 PSF
...
1.2. LIVE LOADS
ROOF LIVE LOAD - ALL AREAS GREATER OF 20 PSF MINIMUM OR SNOW LOAD
1ST FLOOR LIVE LOAD 100 PSF
2ND FLOOR LIVE LOAD 50 PSF (MECHANICAL PLATFORM)
STAIRS 100 PSF, UNIFORM
GUARDRAIL 300 LBS, CONCENTRATED
WORST CASE OF 50 PLF LOAD ALONG TOP RAIL OR 200 LBS. CONCENTRATED LOAD, ANY DIRECTION
...
2. FOUNDATION DESIGN CRITERIA:
2.1. MINIMUM FOOTING BEARING DEPTH BELOW GRADE IS 12 INCHES.
2.2. FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF, PER GEOTECHNICAL REPORT BY TERRACON CONSULTANTS, INC., DATED 7-20-2017, PROJ.# 72175056.
2.3. CONTRACTOR SHALL FIELD VERIFY THE SOIL BEARING CAPACITY PRIOR TO START OF CONSTRUCTION.

CONCRETE REBAR SPLICE SCHEDULE

Table with columns: BAR SIZE, LAP LENGTH (in.), f'c = 3000 psi, f'c = 4000 psi, f'c = 5000 psi. Rows include bar sizes #4 through #11.

MASONRY VENEER LINTEL SCHEDULE

Table with columns: OPENING DIMENSION, ANGLE SIZE, ORIENTATION. Rows include opening dimensions from 0'-0" to 10'-1" thru 12'-0".



MASONRY REBAR LAP SPLICE SCHEDULE table with columns: BAR SIZE, BASIC LAP SPLICE (Ld) FOR CMU REINFORCING. Rows include bar sizes #3 through #9.

STANDARD HOOKS IN TENSION (PER ACI 318-02)

Table with columns: BAR SIZE, f'c 3000 psi, f'c 4000 psi, f'c 5000 psi. Rows include bar sizes #3 through #11.

EXPOSED CONCRETE FINISH SCHEDULE

Table with columns: AREA, FINISH, COMMENTS. Rows include BASEMENT WALLS, ALL EXTERIOR WALLS, EXTERIOR CONCRETE PAVEMENT, SLAB ON GRADE, EXT. EQUIP. PADS, EXTERIOR STAIRS.

CONCRETE MATERIALS SCHEDULE table with columns: LOCATION, MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS), REMARKS. Rows include FOUNDATIONS, FLOOR SLAB, WALLS, EQUIPMENT PADS, CONCRETE FOR MASONRY CORES, BOND BEAMS.

MATERIALS KEYING LEGEND

RPA ENGINEERING, P.A. Structural Engineering Solutions. Engineering License Certificate No. C-2734. 102 Regency Blvd. Phone: 252-321-6027. Suite A1 Fax: 252-355-2179. Greenville, NC 27834. RPA Project No.: 2017165.

GENERAL NOTES

- 1. PROVIDE LOOSE STEEL ANGLE LINTELS FOR ALL MASONRY VENEER OPENINGS, PER ABOVE DATA UNLESS NOTED OTHERWISE.
2. PROVIDE MINIMUM OF 8" BEARING FOR ALL LINTELS UNLESS NOTED OTHERWISE.
3. COORDINATE HORIZONTAL LEG SIZE WITH ARCHITECTURAL DRAWINGS. SIZES MAY NEED TO BE CHANGED TO ACCOMMODATE AIR SPACE, INSULATION AND OTHER WALL COMPONENTS.

KEY PLAN

SCO ID #17-18613-01C; NCCCS #2163. Includes project title, date, and drawing title information.

NO REVISION DATE

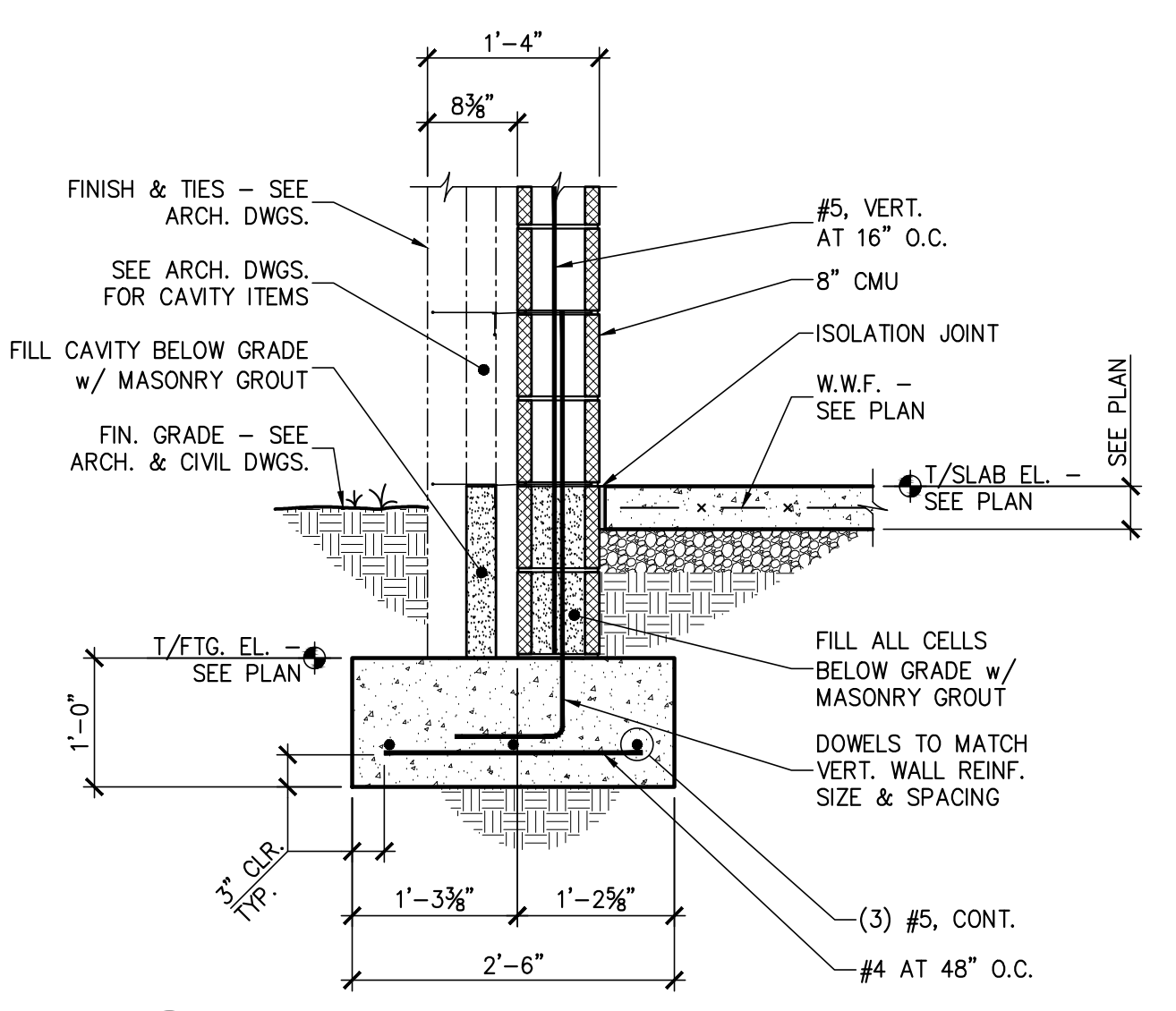
Professional Engineer Seal for J K F ARCHITECTURE, License No. 17348.

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

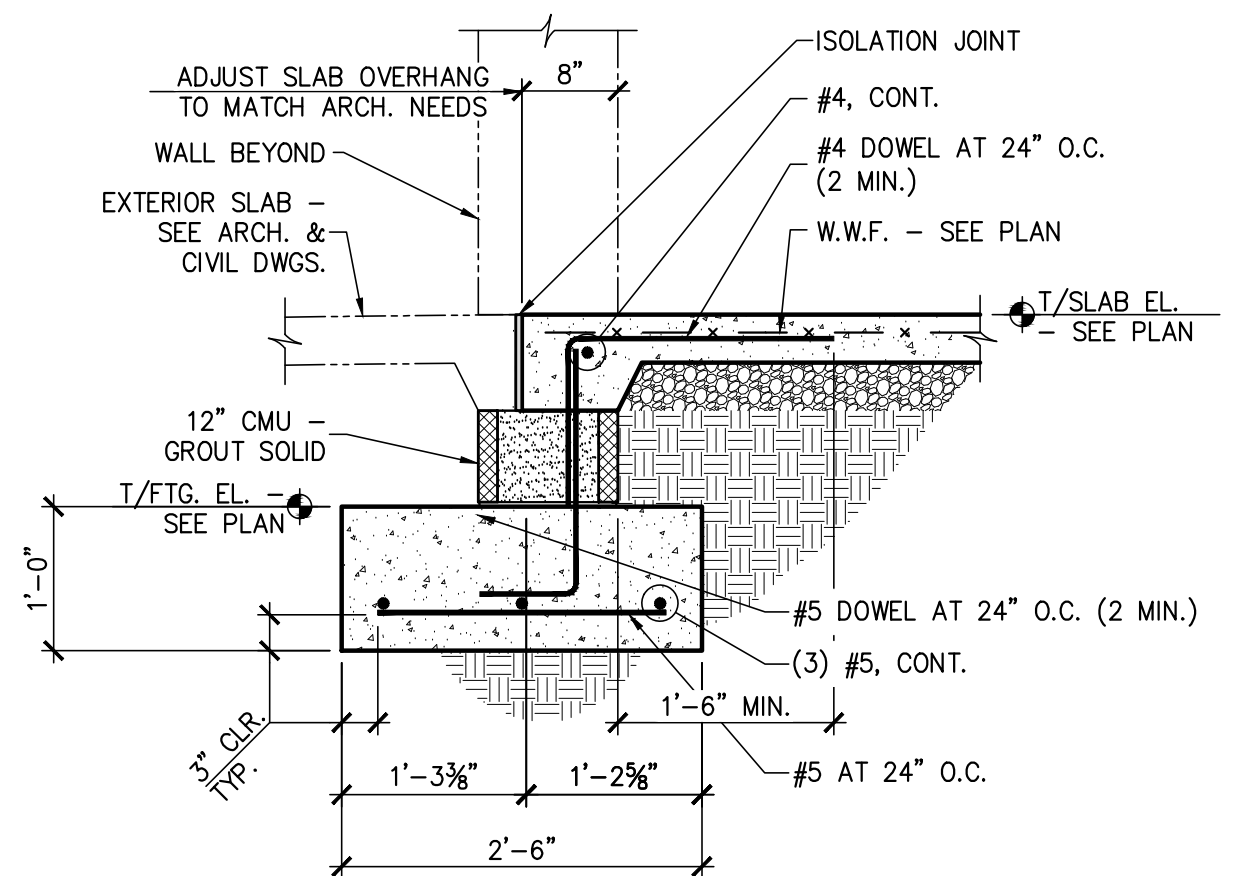
STRUCTURAL DESIGN CRITERIA, STRUCTURAL GENERAL NOTES, SCHEDULES & DETAILS

DRAWING TITLE: STRUCTURAL DESIGN CRITERIA, STRUCTURAL GENERAL NOTES, SCHEDULES & DETAILS. SCALE: AS NOTED. DRAWING NO. DRAWN: MBM. CHECKED: MSR. DATE: 5-20-2024. PROJECT NO.: 2018-20B.

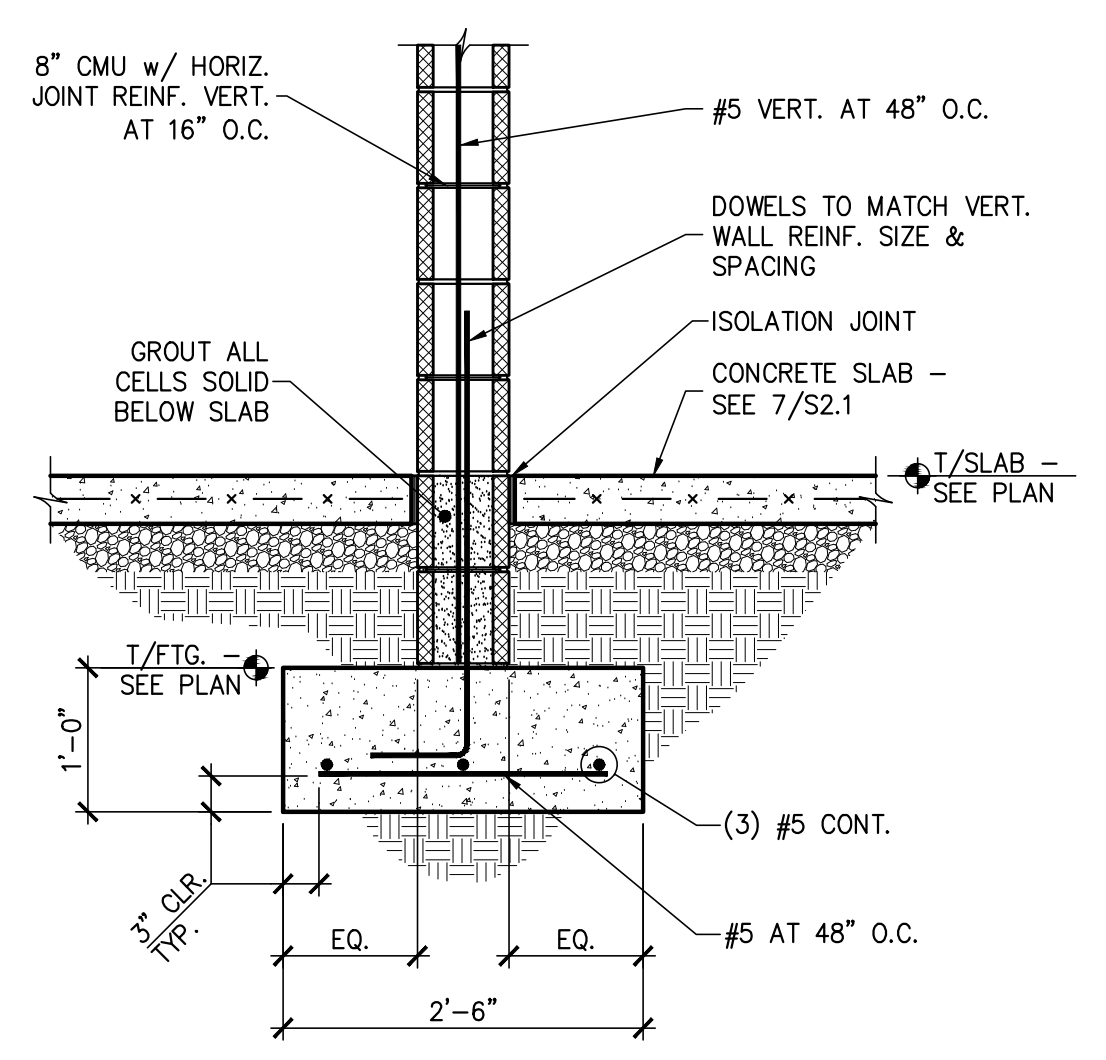
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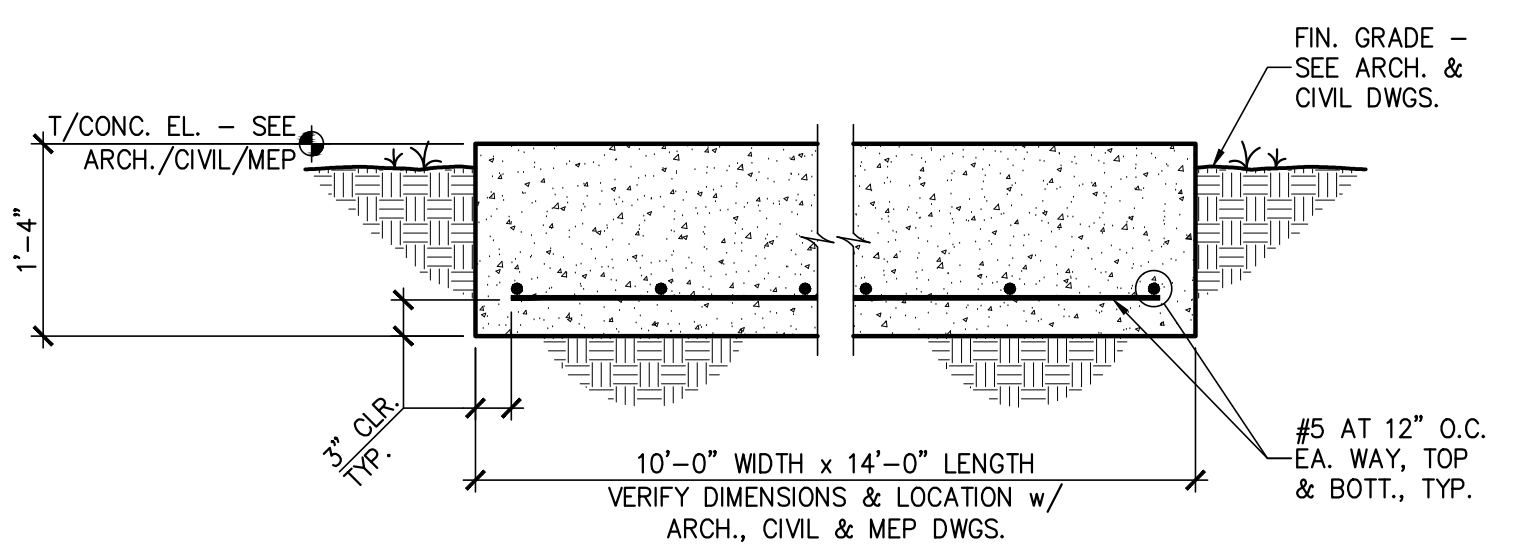
1 SECTION - TYP. FTG. AT 8" CMU WALL
S1.1 N.T.S.



2 SECTION - TYP. EXT. DOOR WALL FTG.
S1.1 N.T.S.



3 SECTION - TYP. FULL HT. CMU WALL FTG.
S1.1 N.T.S.

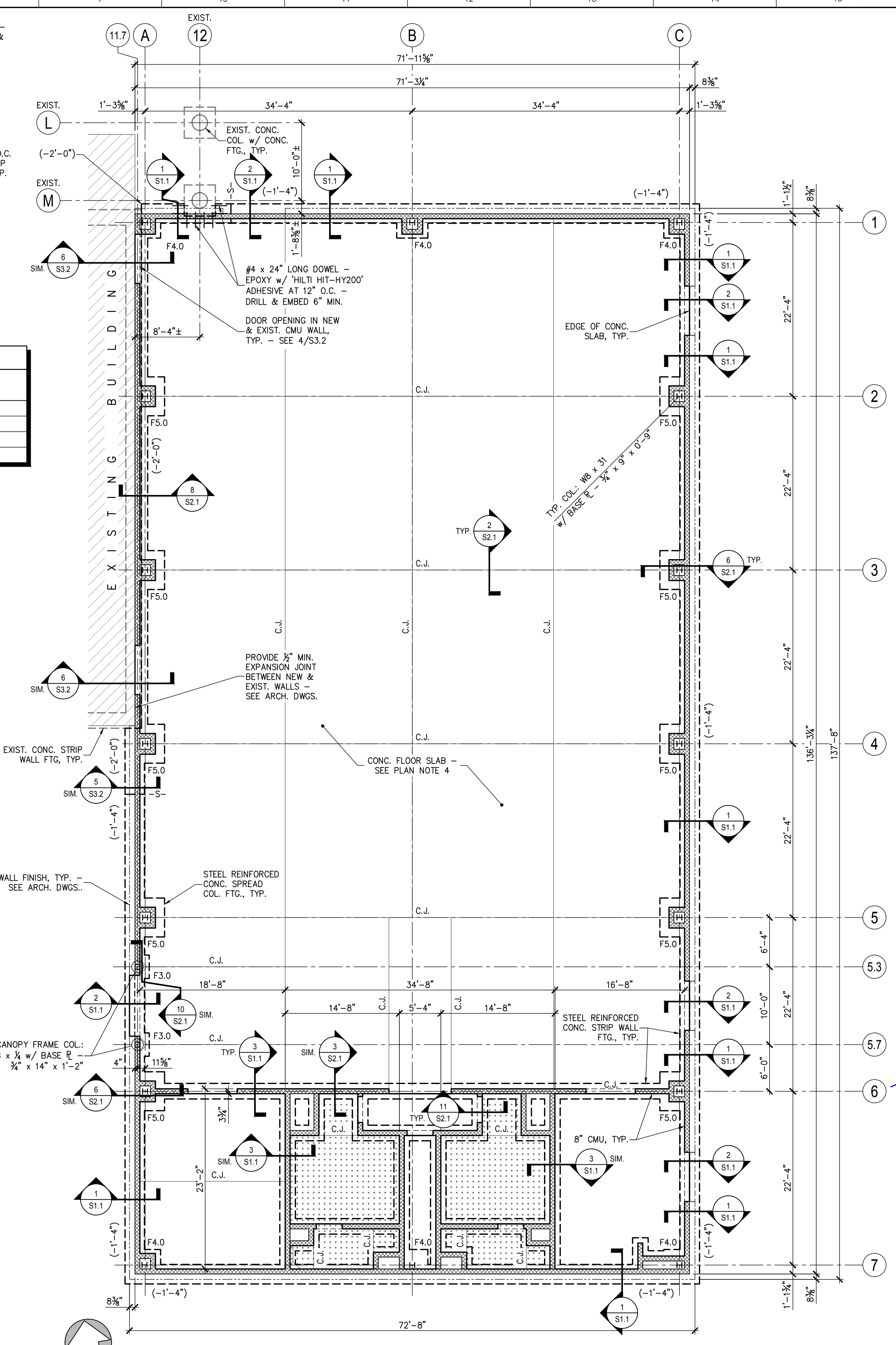


4 SECTION - FDN. FOR EMERGENCY PUMP & GENERATOR
S1.1 3/4" = 1'-0"

MARK	FTG. SIZE	REINFORCEMENT	T/FTG. EL.	REMARKS
F3.0	3'-0" x 3'-0" x 1'-0"	(4) #4 EA. WAY, BOT.	SEE PLAN	-
F4.0	4'-0" x 4'-0" x 1'-0"	(5) #4 EA. WAY, BOT.	SEE PLAN	-
F5.0	5'-0" x 5'-0" x 1'-0"	(6) #4 EA. WAY, BOT.	SEE PLAN	-

FOUNDATION PLAN LEGEND	
F4.0	DENOTES COLUMN CONCRETE SPREAD FOOTING WITH FOOTING MARK - SEE FOOTING SCHEDULE ON SHEET S1.1 FOR SIZE AND REINFORCING
I	DENOTES STEEL COLUMN - SEE COLUMN SCHEDULE ON THIS SHEET FOR COLUMN SIZE, BASE PLATE SIZE AND QUANTITY, AND SIZE OF ANCHOR BOLTS - SEE DETAIL 7/S2.1 FOR ADDITIONAL INFORMATION
-S-	DENOTES FOOTING STEP - STEP FOOTING AS REQUIRED TO MATCH TOP OF EXISTING FOOTING ELEVATION - SEE DETAIL 4/S2.1 FOR ADDITIONAL INFORMATION
[Dotted Pattern]	DENOTES A DEPRESSED SLAB (2" TYPICAL) - SEE 11/S2.1 AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION
C.J.	DENOTES SLAB ON GRADE CONSTRUCTION OR SAWCUT CONTROL JOINT - SEE DETAILS 2/S2.1 AND 3/S2.1 FOR ADDITIONAL INFORMATION
(-1'-4")	DENOTES TOP OF FOOTING ELEVATION
[Hatched Pattern]	DENOTES A FULL HEIGHT OR LOAD BEARING CMU WALL - SEE FOUNDATION DETAILS FOR REINFORCING
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'

- FOUNDATION PLAN NOTES:**
- SEE SHEET S0.1 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
 - DIMENSIONS SHOWN WITH "E" ARE EXISTING AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
 - TOP OF SLAB REFERENCE ELEVATION = 0'-0" UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS.
 - CONCRETE FLOOR SLAB IS 4" THICK WITH 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC, TYPICAL EXCEPT AT MECHANICAL ROOMS WITH DEPRESSED SLAB. PROVIDE 10 MIL VAPOR BARRIER AND 4" OF WASHED, CRUSHED STONE (NCDOT No. 57) UNDER SLAB.
 - ALL INTERIOR WALL STRIP FOOTINGS SHALL BE 2'-0" WIDE UNLESS OTHERWISE NOTED ON THE PLAN.
 - ALL EXTERIOR WALL STRIP FOOTINGS SHALL BE 2'-6" WIDE UNLESS OTHERWISE NOTED ON THE PLAN.
 - SEE DETAIL 4/S2.1 FOR TYPICAL FOOTING STEP.
 - SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS.
 - SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MASONRY OPENINGS NOT SHOWN.
 - FOR FOOTING, BASE PLATE AND ANCHOR BOLT DETAIL, SEE SHEET S2.1.
 - PRIOR TO POURING EQUIPMENT PAD, ROUGHEN SLAB AND COAT WITH CONCRETE BONDING ADHESIVE. PROVIDE 6 x 6 - W 2.1 x W 2.1 WELDED WIRE FABRIC IN MID-HEIGHT OF PAD.
 - EXTERIOR CMU WALLS ARE SHEAR WALLS. SEE DETAILS FOR REINFORCEMENT REQUIREMENTS.
 - CMU VERTICAL WALL REINFORCING SHALL BE #5 AT 16" O.C. AT EXTERIOR WALLS, AND #5 AT 48" O.C. AT INTERIOR WALLS, UNLESS OTHERWISE NOTED.
 - SEE 9/S2.1 FOR CONDITIONS WHERE POSSIBLE PIPING CONFLICTS WITH FOUNDATION MAY EXIST.



FOUNDATION PLAN
PROJECT NORTH 1/8" = 1'-0"

MATERIALS KEYING LEGEND

RPA ENGINEERING, P.A.
Structural Engineering Solutions
Engineering License Certificate No. C-2734
102 Regency Blvd. Phone: 252-321-6027
Suite A1 Fax: 252-355-2179
Greenville, NC 27834
RPA Project No.: 2017165

GENERAL NOTES

KEY PLAN

SCO ID #17-18613-01C; NCCCS #2163

NO	REVISION	DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER 17348

JKF ARCHITECTURE

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

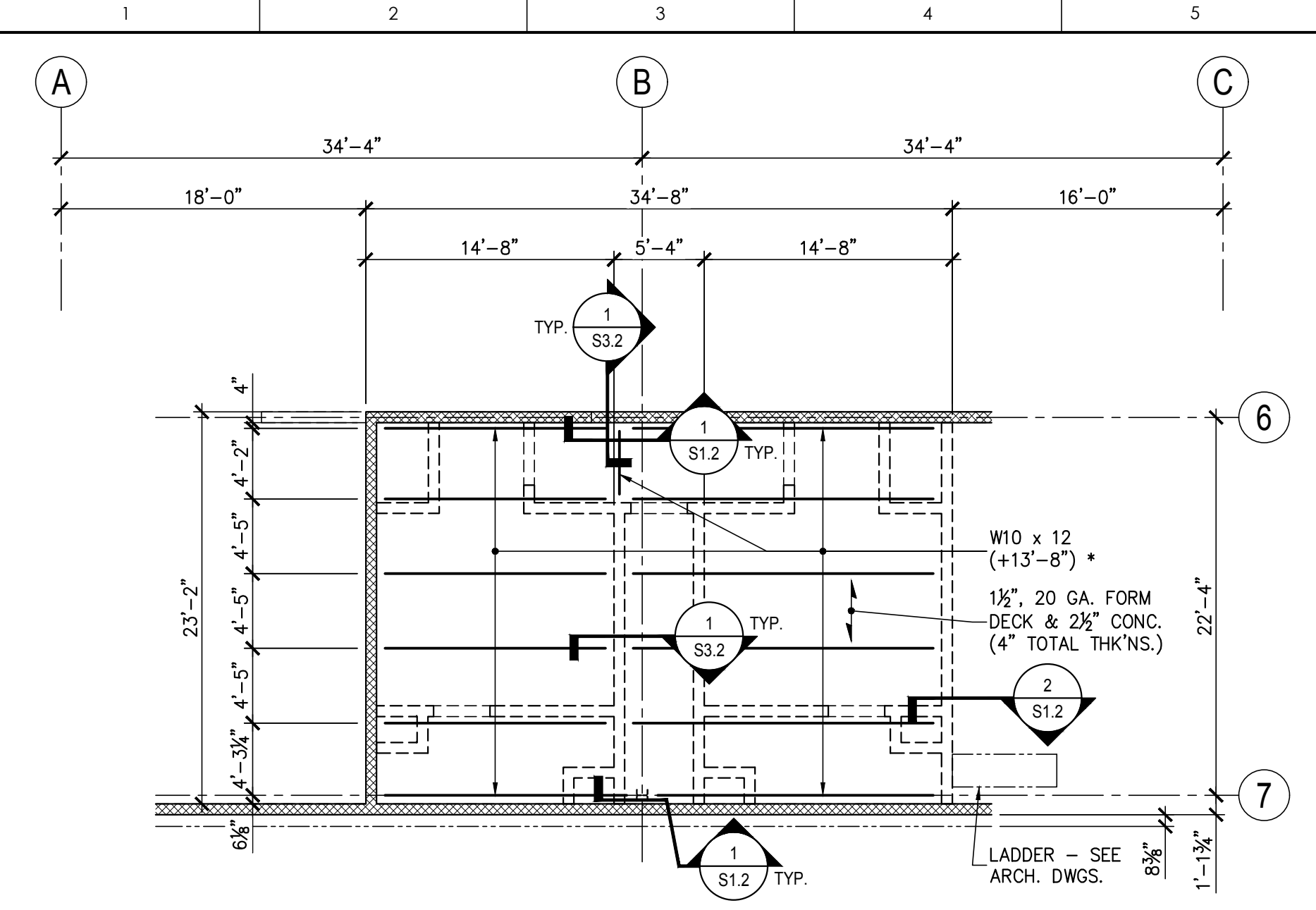
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **FOUNDATION PLAN**

SCALE	DRAWING NO.
AS NOTED	
DRAWN: MBM	
CHECKED: MSR	
DATE: 5-20-2024	
PROJECT NO.: 2018-20B	

S1.1

C:\Users\mikem\Desktop\BPA Projects\2017\2017165 JK Architecture - Sampson CC Activities Building Addition & Renovations_Structural Drawings\2017\165ROOF.dwg, S1.2, 6/12/2024 12:35:25 PM, mikem, DWG To PDF.pc3, ARCH full bleed D (24.00 x 36.00 inches), 1:1

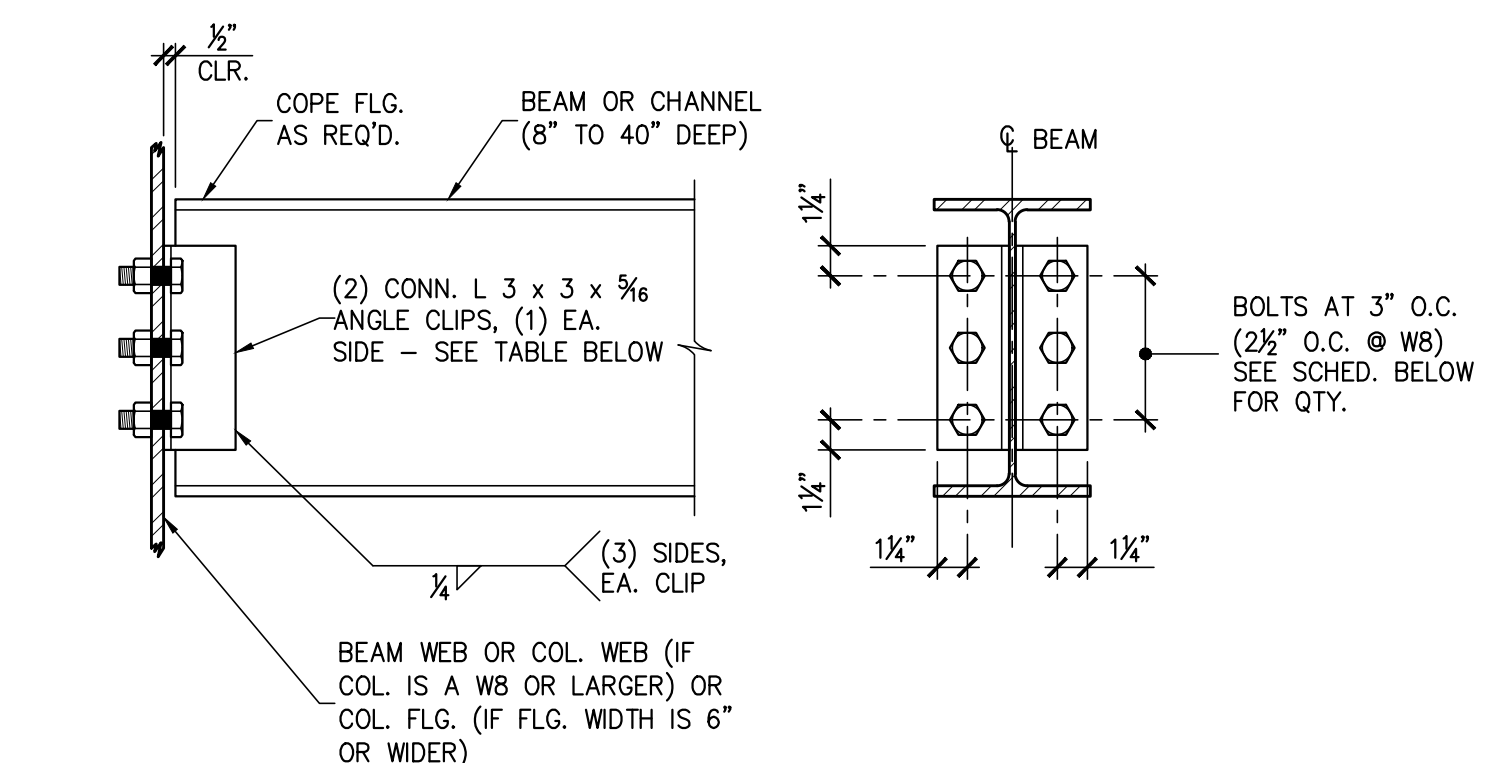
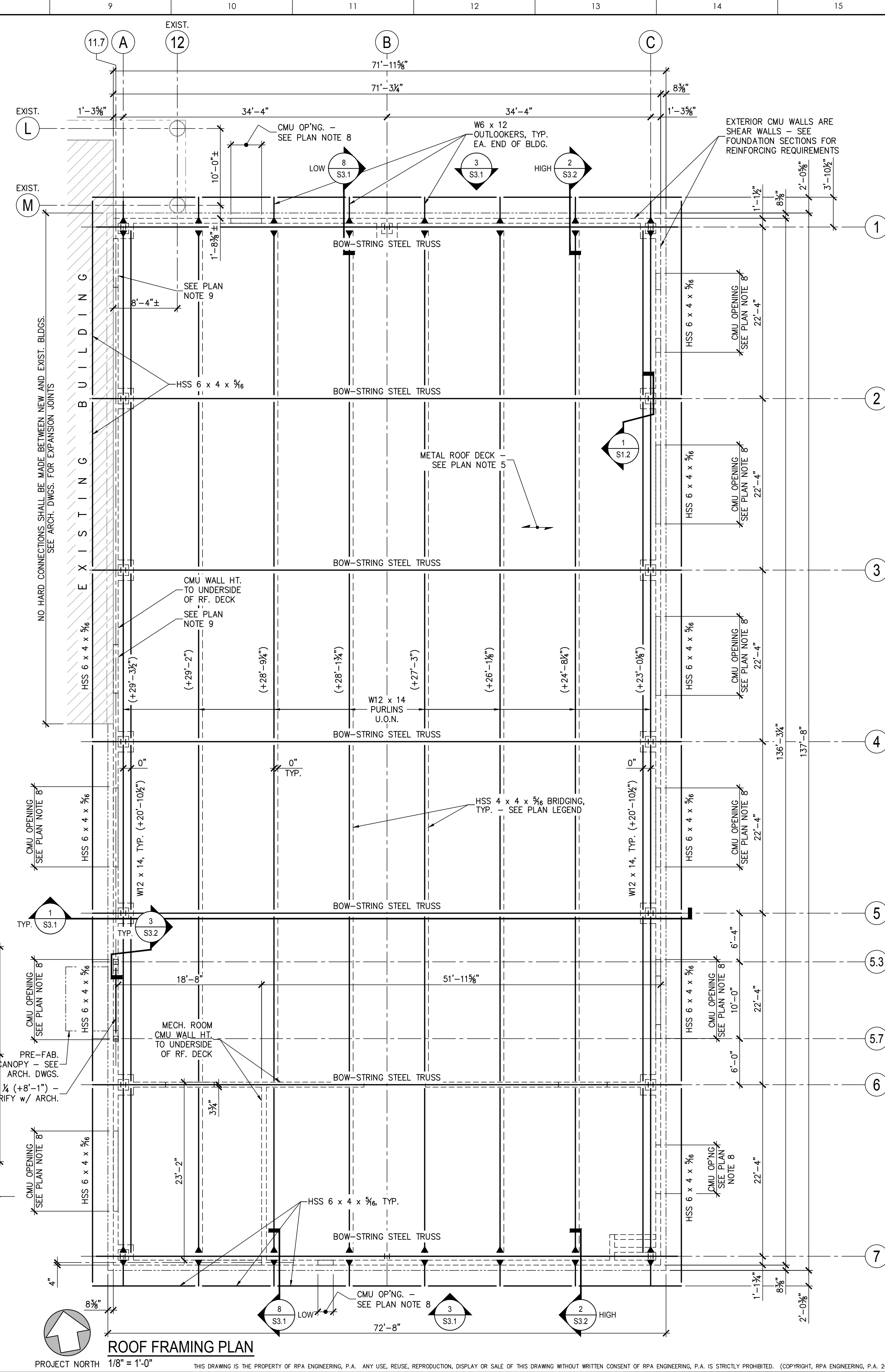


UPPER MECHANICAL ROOM FRAMING PLAN

PROJECT NORTH 1/8" = 1'-0"

ROOF FRAMING PLAN LEGEND	
	DENOTES DIRECTION OF DECK SPAN
$W14 \times 22$ (+12'-4")	DENOTES STEEL BEAM OR PURLIN WITH SIZE DESIGNATION AND TOP OF STEEL REFERENCE ELEVATION
	DENOTES HSS 4 x 4 x 3/16 HORIZONTAL STEEL TRUSS BRIDGING BETWEEN BOTTOM CHORDS, AT PANEL POINTS, WHERE INDICATED ON PLAN
	DENOTES MOMENT CONNECTION - SEE DETAIL 2/S3.2 FOR ADDITIONAL INFORMATION
U.O.N.	DENOTES 'UNLESS OTHERWISE NOTED'

- ROOF FRAMING PLAN NOTES:**
- SEE SHEET S0.1 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
 - DIMENSIONS SHOWN WITH "E" ARE EXISTING AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
 - USE STEEL ANGLE LINTELS FOR ALL BRICK OPENINGS UNLESS OTHERWISE NOTED, EXCEPT AT STEEL LINTEL BEAM LOCATIONS. SEE SHEET S4.1 FOR MASONRY VENEER LINTEL SCHEDULE.
 - COORDINATE ROOF OPENINGS WITH MECHANICAL AND PLUMBING DRAWINGS.
 - ROOF DECK IS 1 1/2", 20 GA. WIDE RIB (S.D.I. TYPE WR-22). SEE NOTES ON SHEET S4.1 FOR ADDITIONAL INFORMATION.
 - SEE GENERAL STRUCTURAL NOTES FOR WELDING REQUIREMENTS.
 - TOP OF STEEL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR REFERENCE ELEVATION 0'-0". SEE ARCHITECTURAL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION.
 - SEE 4/S3.2 FOR HEADER ABOVE OPENING IN CMU. VERIFY OPENING SIZE WITH ARCHITECTURAL DRAWINGS.
 - ENSURE THAT CMU HEADERS IN NEW CMU WALL DO NOT PHYSICALLY LINK TO EXISTING CMU WALL TO PROTECT FIRE SEPARATION.

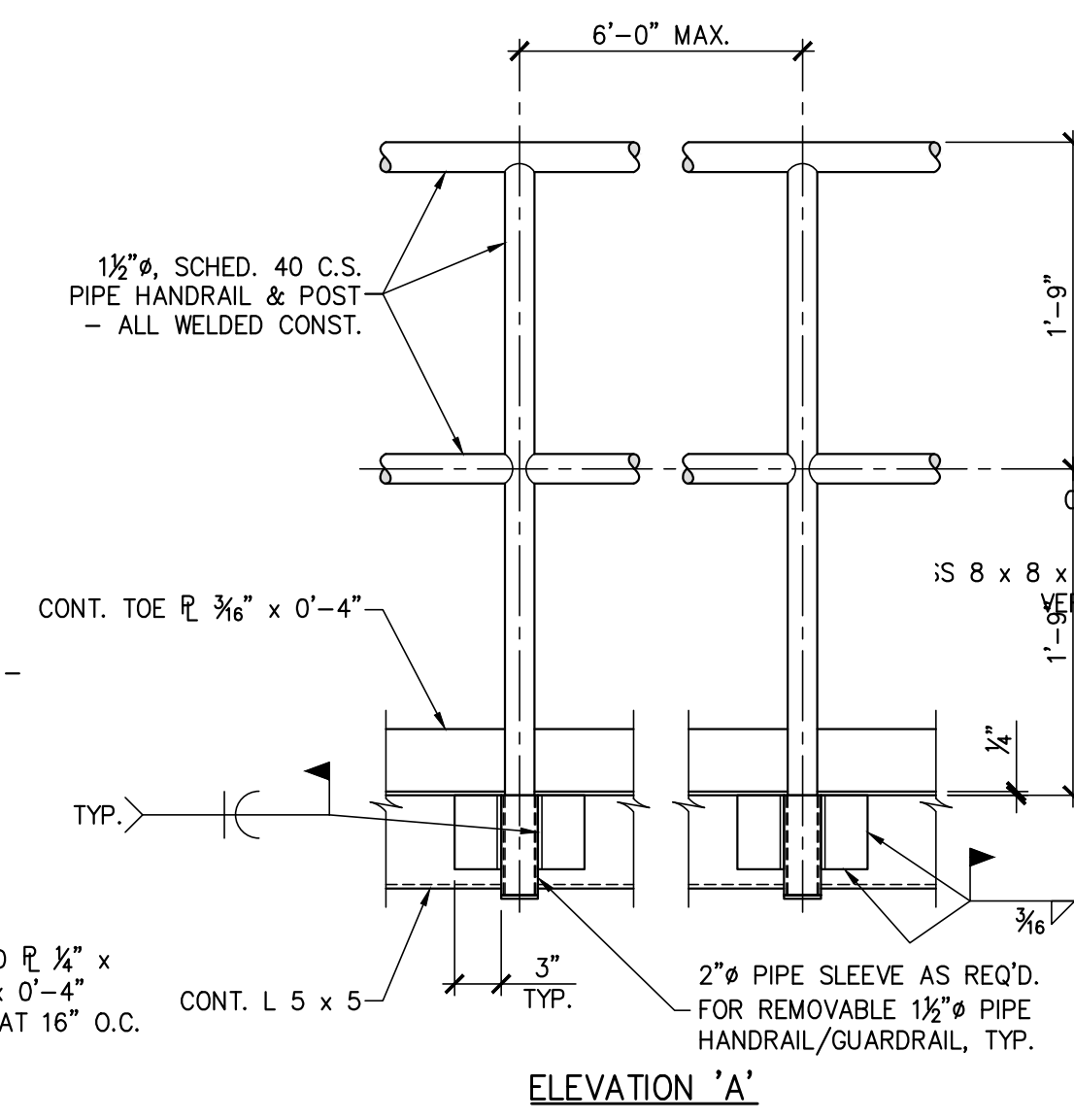


- NOTES:**
- ALL BOLTS ARE 3/4" Ø, A325 BOLTS IN 1 1/8" Ø HOLES.
 - USE 3/8" CLIP ANGLES WHERE INDICATED ON FRAMING PLAN(S).

BEAM DEPTH NOMINAL	No. OF BOLTS EACH SIDE	FRAMING ANGLE LENGTH 'L'
8"	2	5"
10"	2	5 1/2"
12"	3	8 1/2"
14"	3	8 1/2"
16"	4	11 1/2"
18"	4	11 1/2"
21"	5	14 1/2"
24"	6	17 1/2"
27"	6	17 1/2"
30"	7	20 1/2"
33"	8	23 1/2"
36"	9	26 1/2"
40"	10	29 1/2"

* BOLT ROWS ARE SPACED 3" O.C. UNLESS NOTED OTHERWISE.

- NOTES:**
- PROVIDE SAFETY GATE OR OTHER BARRIER AT BREAK FOR ENTRY IN GUARDRAIL AS REQUIRED BY BUILDING CODE. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



2 DETAIL - TYP. SLEEVED GUARDRAIL
S1.2 N.T.S.

MATERIALS KEYING LEGEND

RPA ENGINEERING, P.A.
Structural Engineering Solutions
Engineering License Certificate No. C-2734
102 Regency Blvd. Phone: 252-321-6027
Suite A1 Greenville, NC 27834 Fax: 252-355-2179
RPA Project No.: 2017165

GENERAL NOTES

KEY PLAN

SCO ID #17-18613-01C; NCCCS #2163

NO	REVISION	DATE

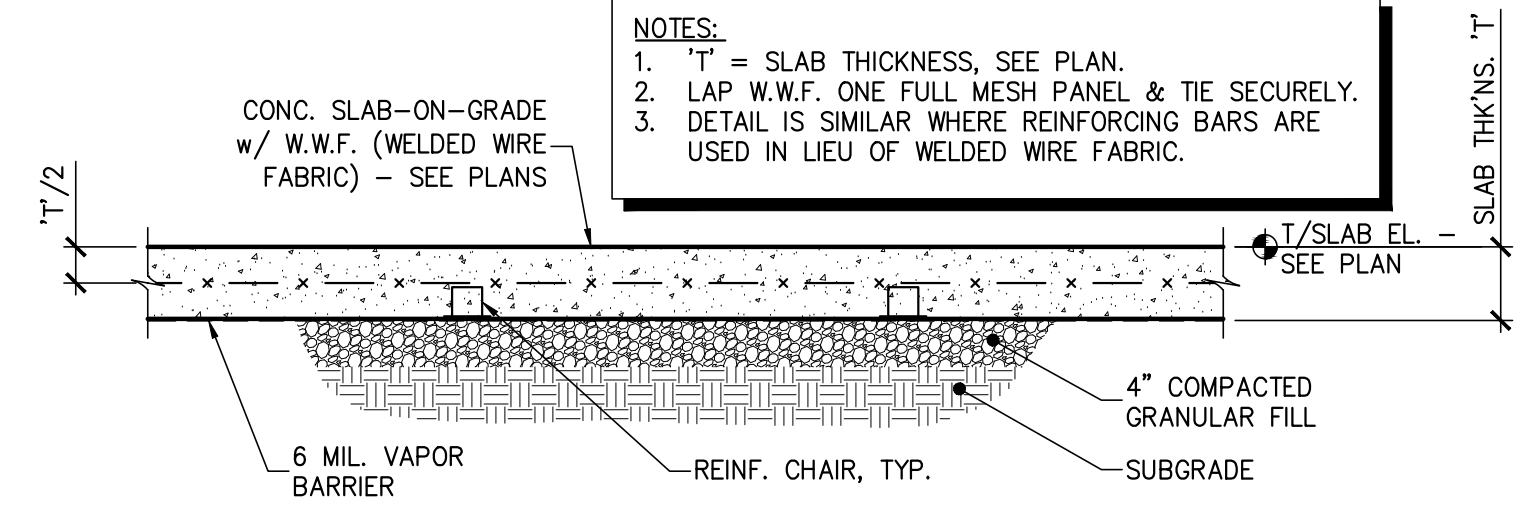
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER 17348
JKF ARCHITECTURE
625 LYNNDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

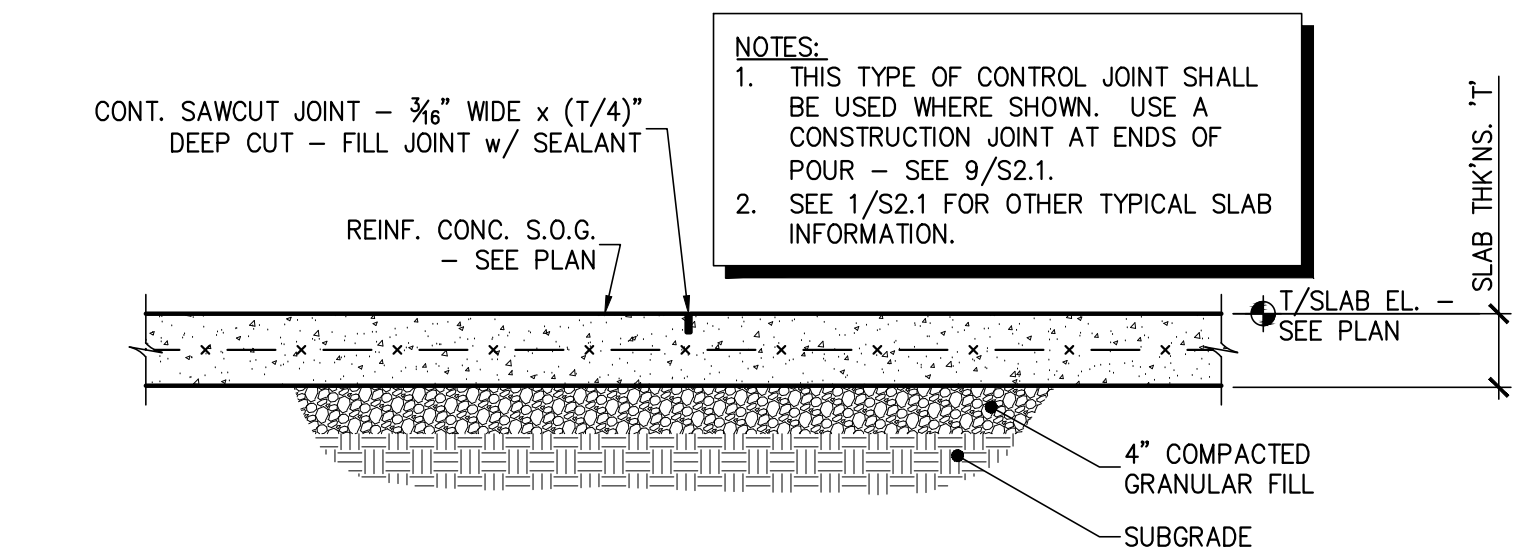
UPPER MECHANICAL ROOM & ROOF FRAMING PLANS

SCALE: AS NOTED	DRAWING NO. S1.2
DRAWN: MBM	
CHECKED: MSR	
DATE: 5-20-2024	
PROJECT NO.: 2018-20B	

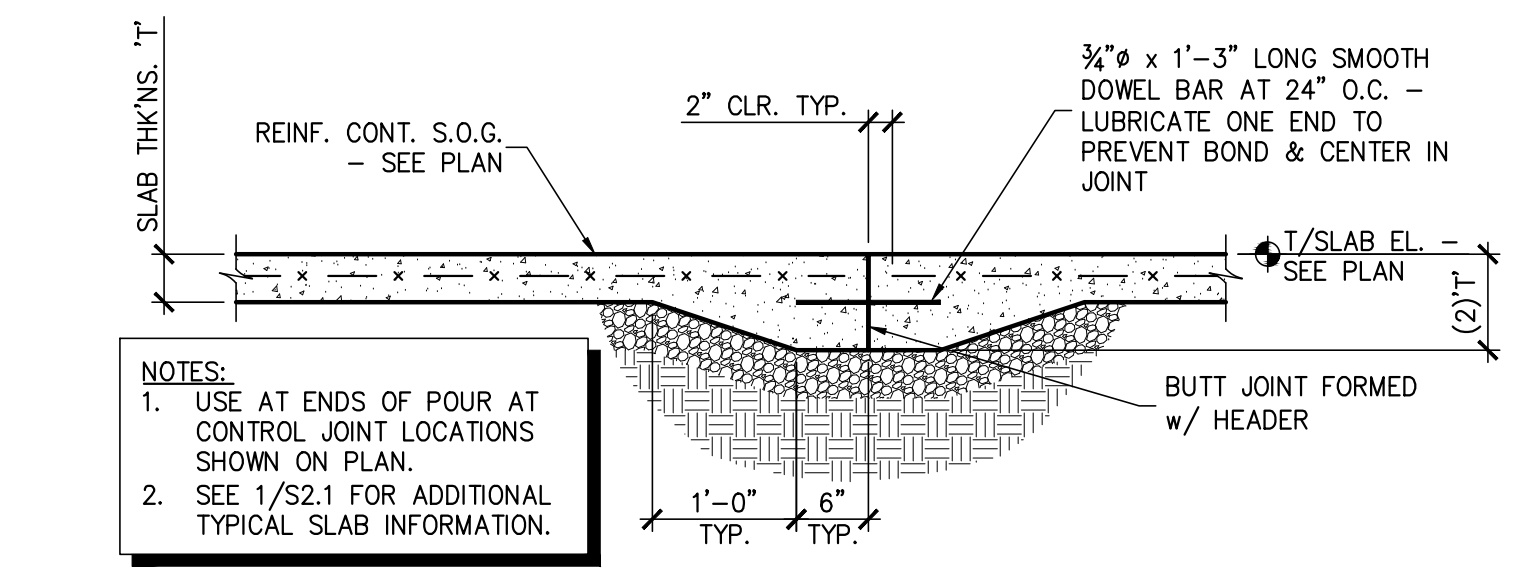
PROJECT NORTH 1/8" = 1'-0"



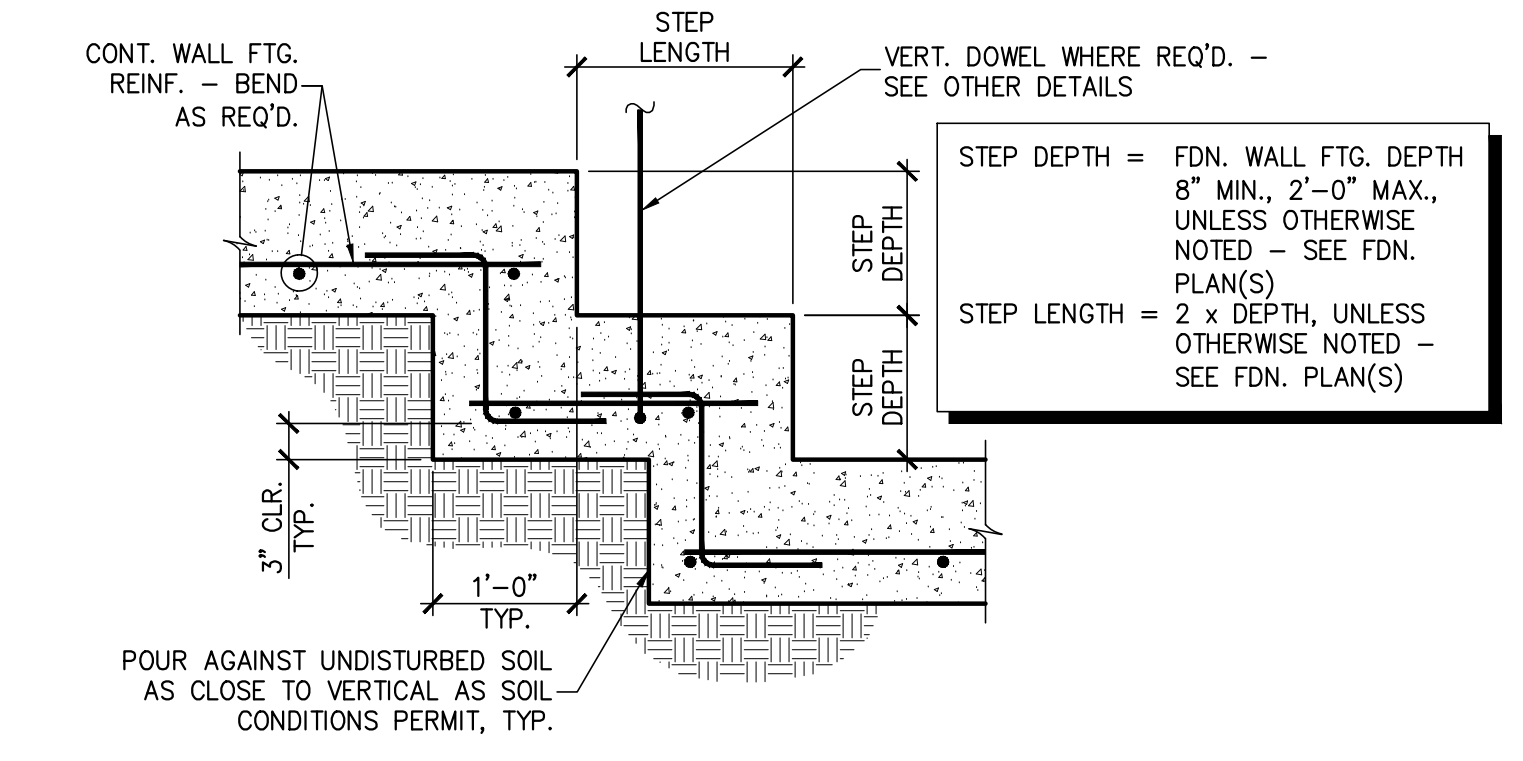
1 SECTION - TYP. SLAB ON GRADE
S2.1 N.T.S.



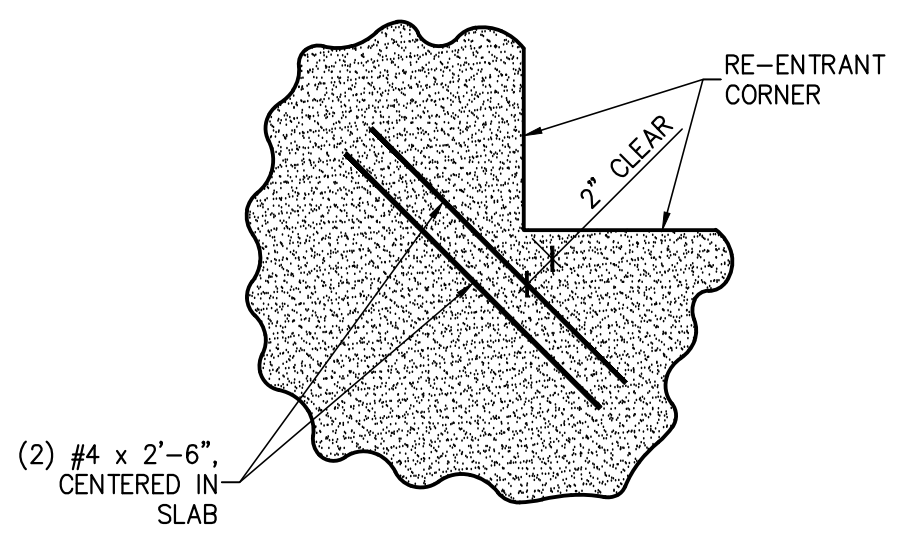
2 SECTION - TYP. CONTROL JOINT
S2.1 N.T.S.



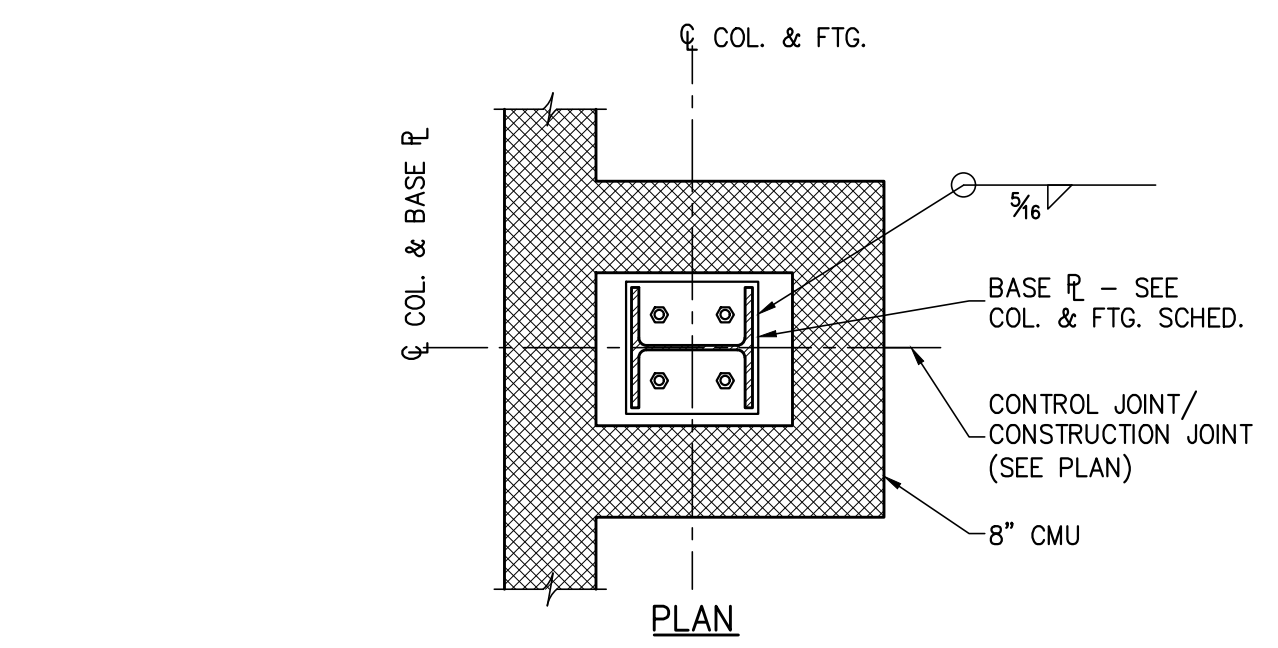
3 SECTION - TYP. CONSTRUCTION JOINT
S2.1 N.T.S.



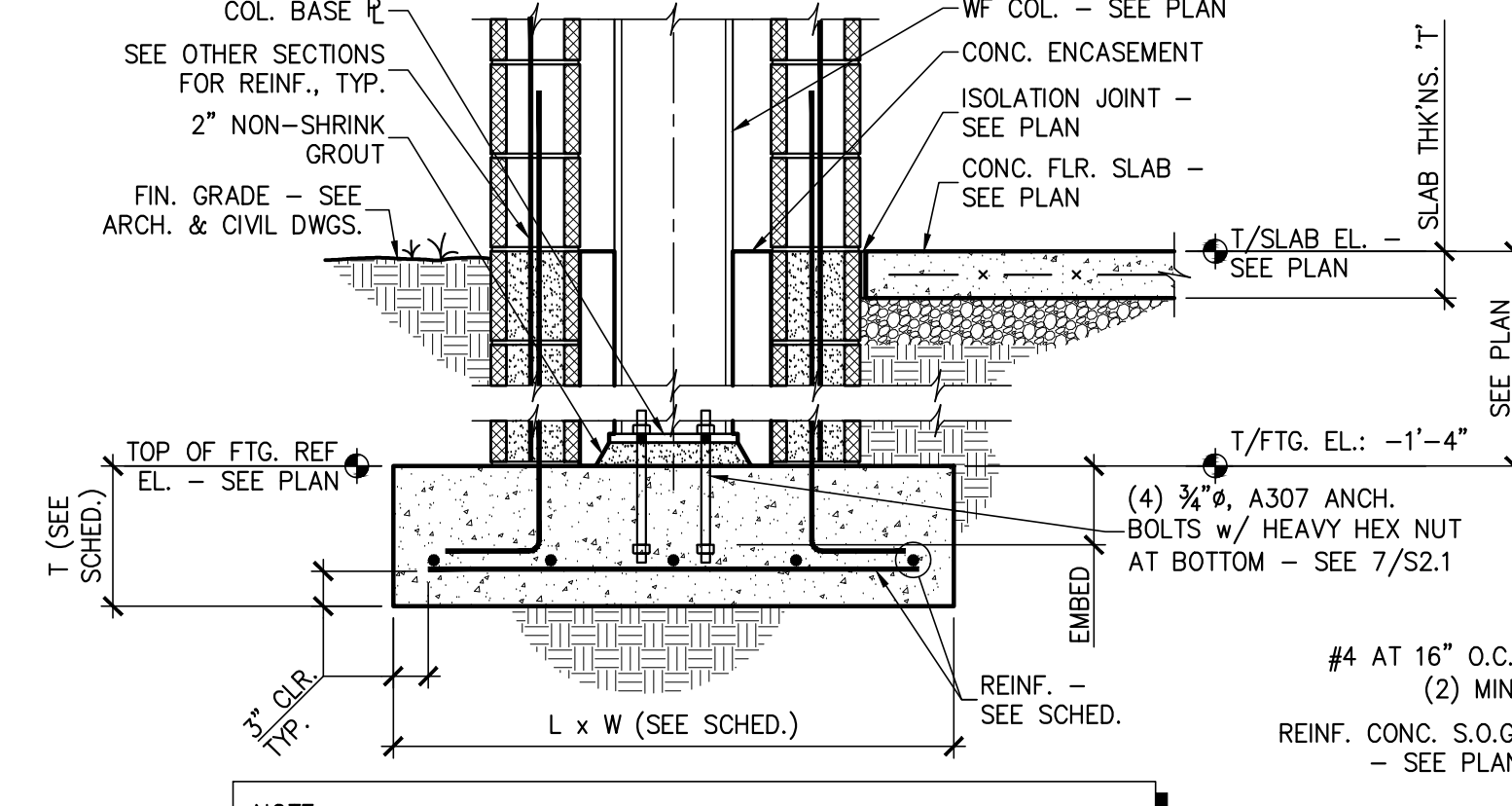
4 SECTION - TYP. STEPPED FTG.
S2.1 N.T.S.



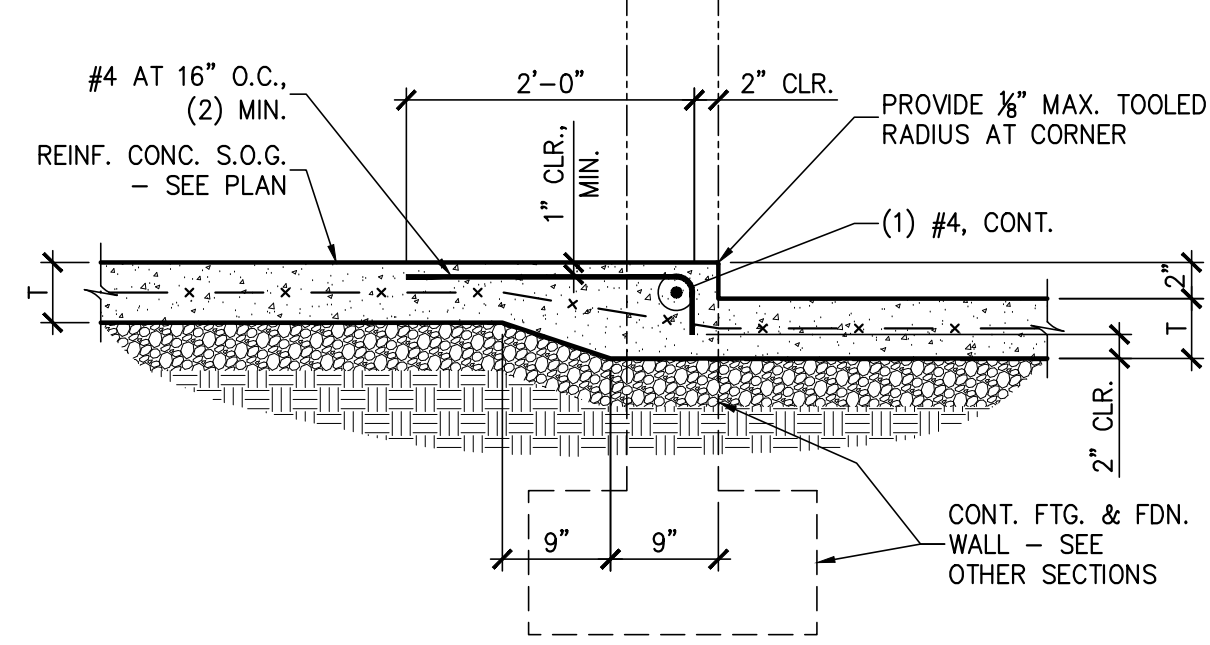
5 DETAIL - TYP. REINF. AT RE-ENTRANT SLAB CORNER
S2.1 N.T.S.



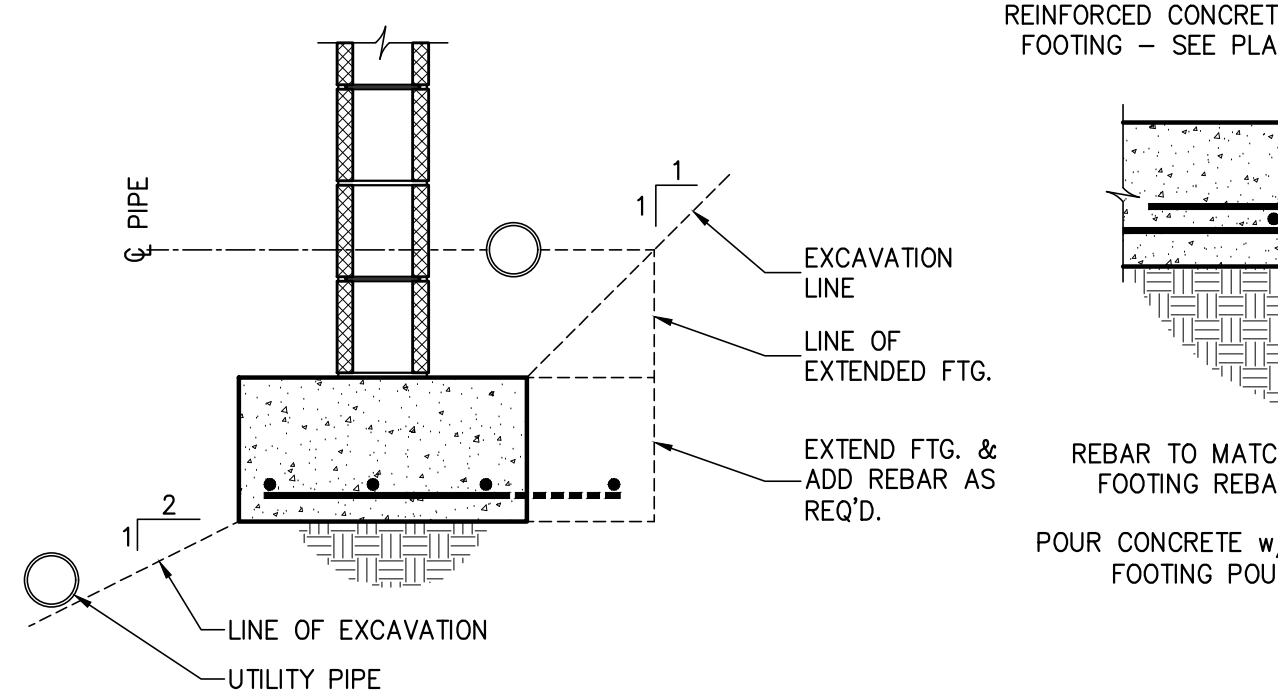
PLAN



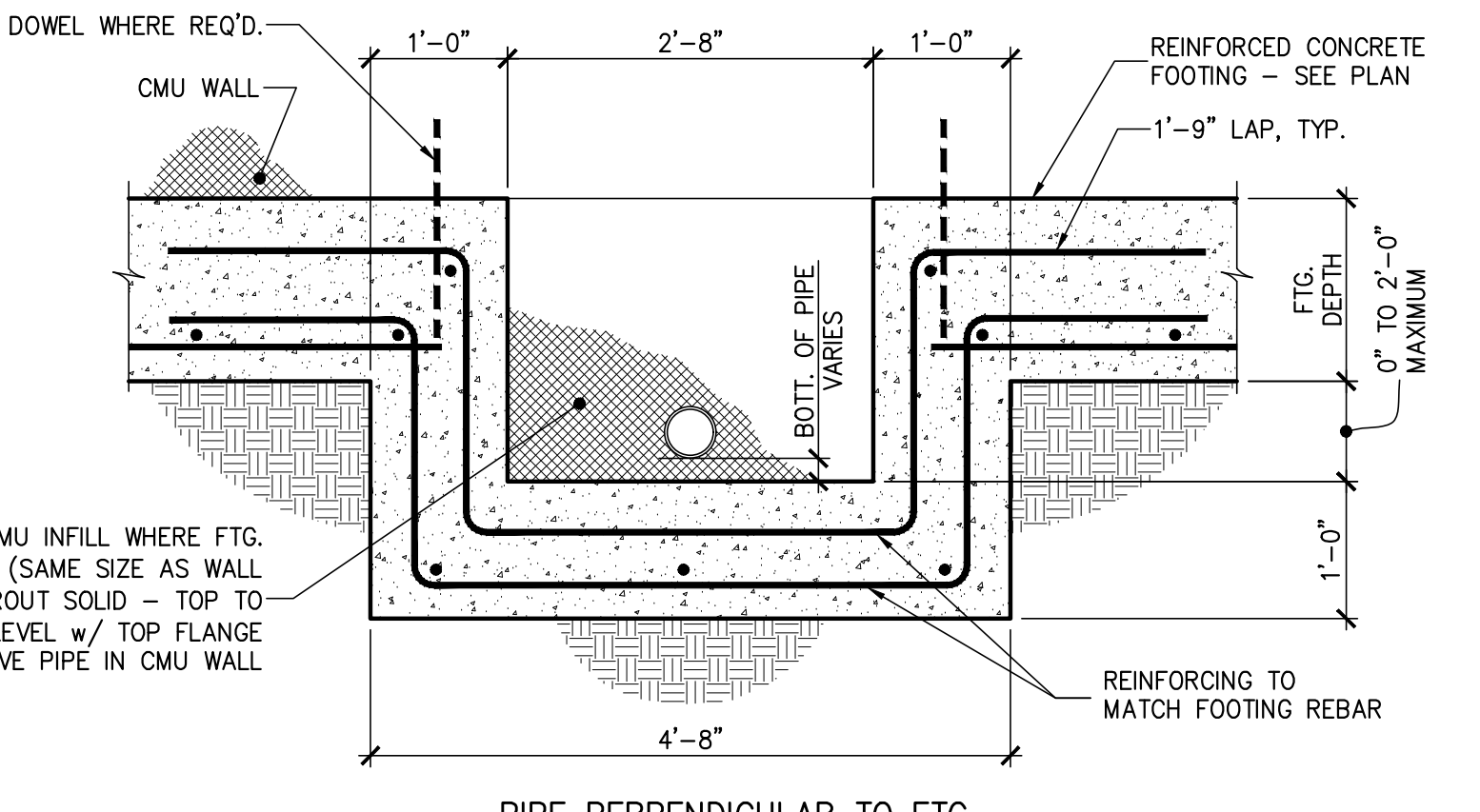
6 SECTION - TYP. WIDE FLANGE COL. FTG.
S2.1 N.T.S.



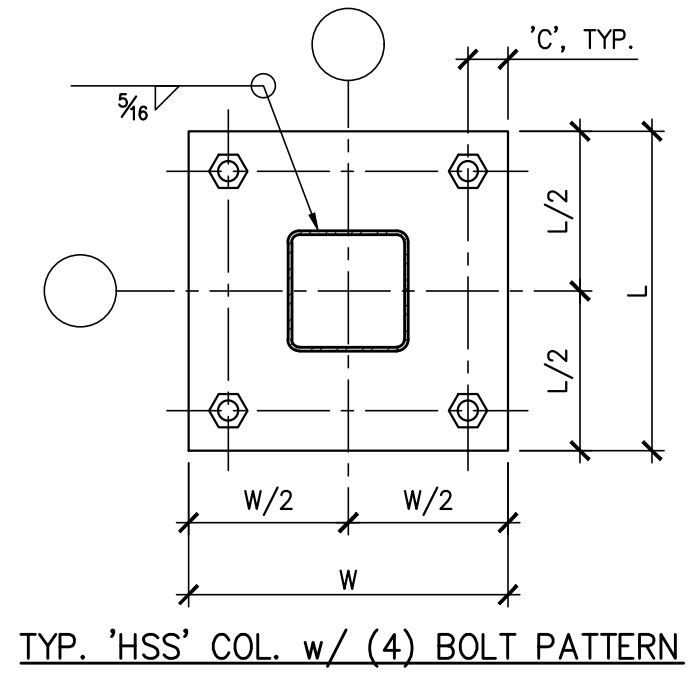
11 SECTION - TYP. DEPRESSED SLAB AT DOORWAY
S2.1 N.T.S.



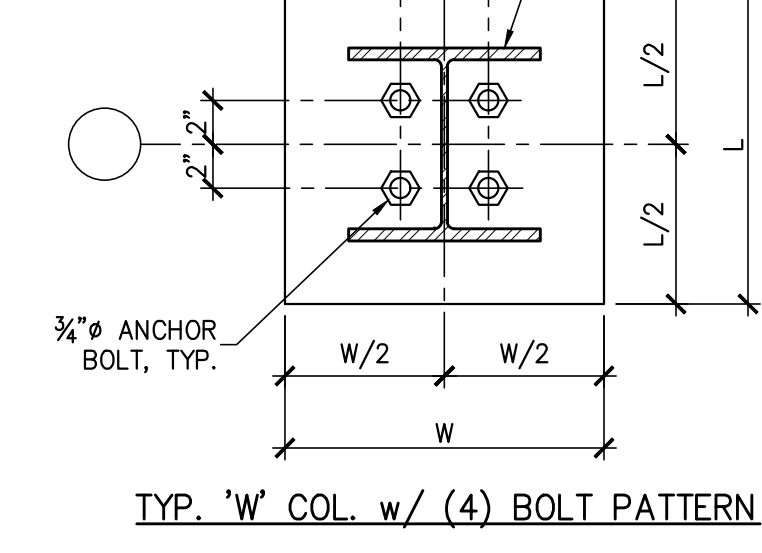
PIPE PARALLEL TO FTG.



9 SECTION - TYP. PIPES UNDER OR ADJACENT TO FTGS.
S2.1 N.T.S.



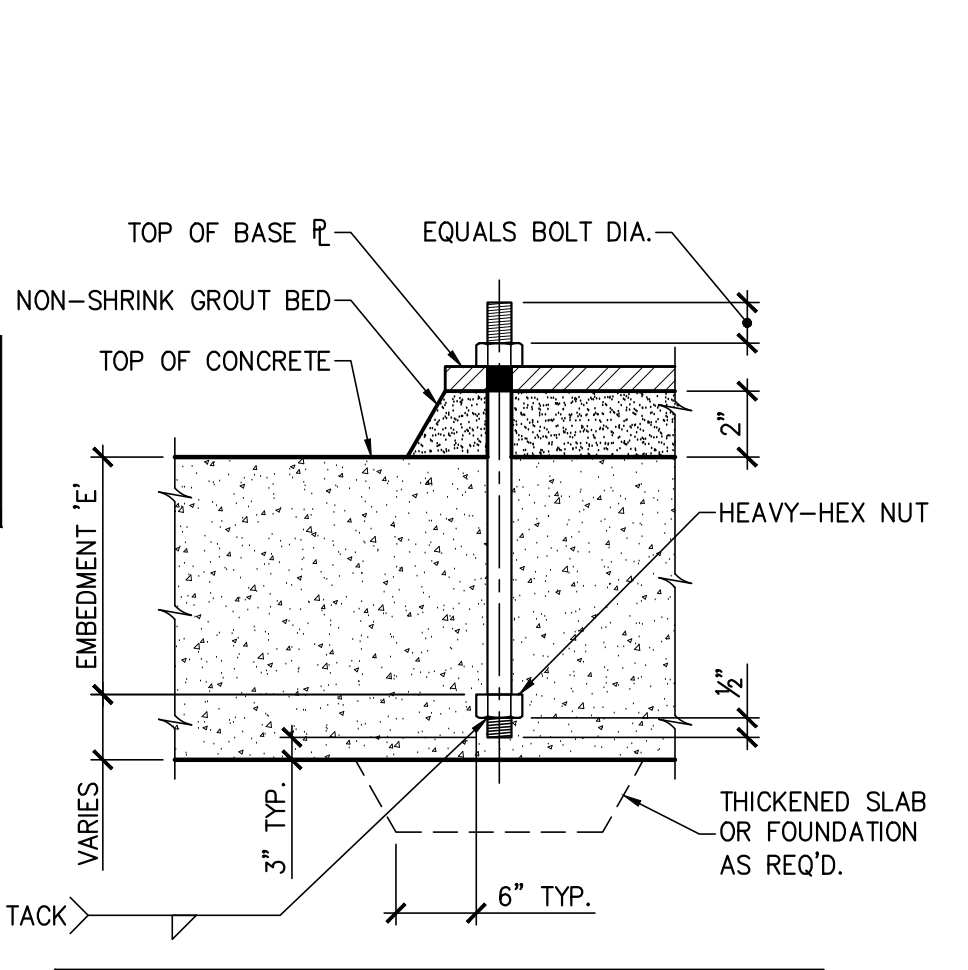
TYP. 'HSS' COL. w/ (4) BOLT PATTERN



TYP. 'W' COL. w/ (4) BOLT PATTERN

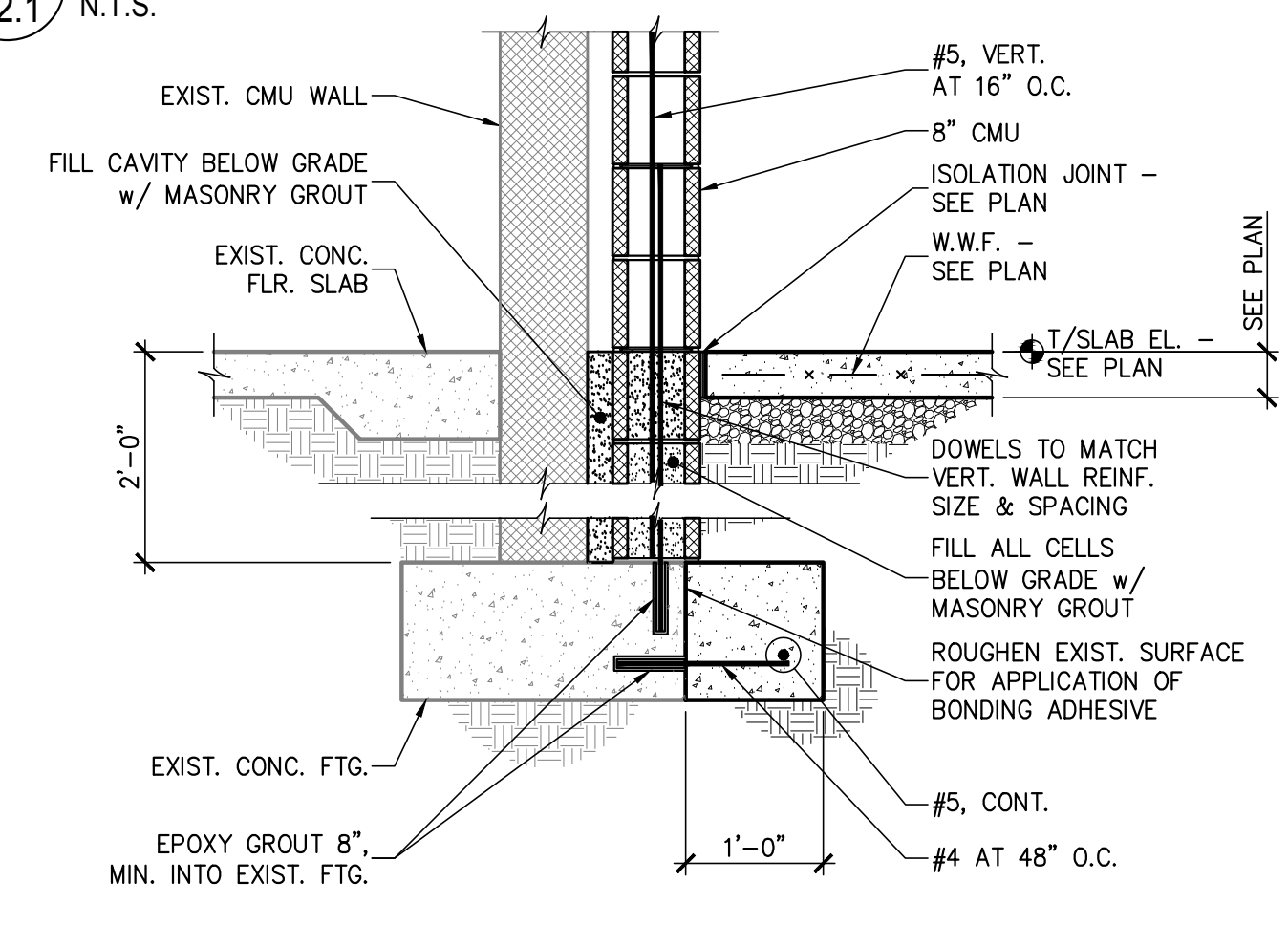
BOLT DIA.	DISTANCE 'C'
3/4"	1 1/2"
1"	1 3/4"
1 1/4"	2 1/4"
1 1/2"	2 3/4"

NOTE:
 ANCHOR BOLT HOLES SHALL BE OVERSIZED IN ACCORDANCE WITH RECOMMENDATIONS OF 'A.I.S.C.' STRUCTURAL STEEL DETAILING.

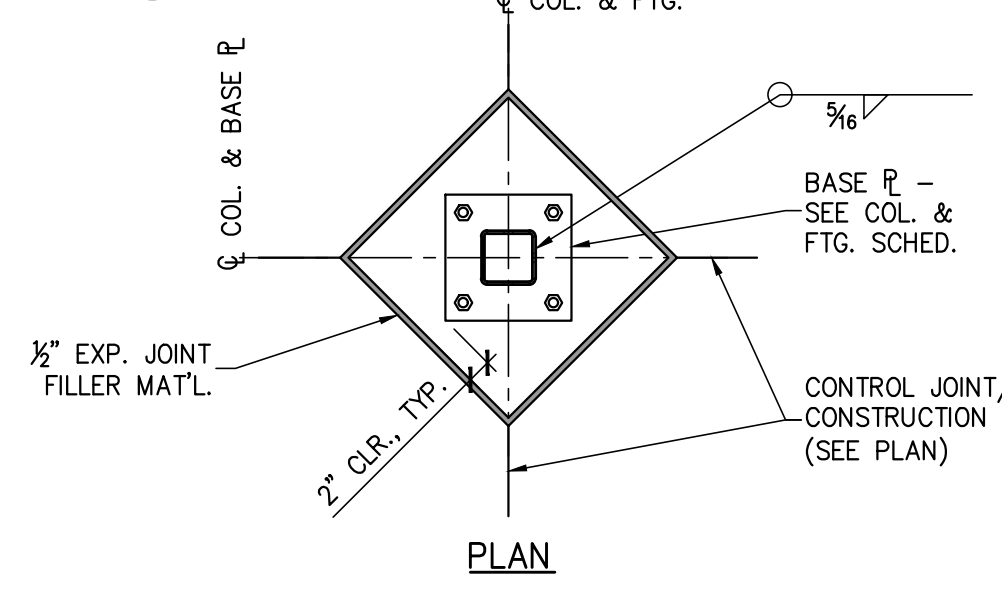


7 TYPICAL ANCHOR BOLT DETAIL
S2.1 N.T.S.

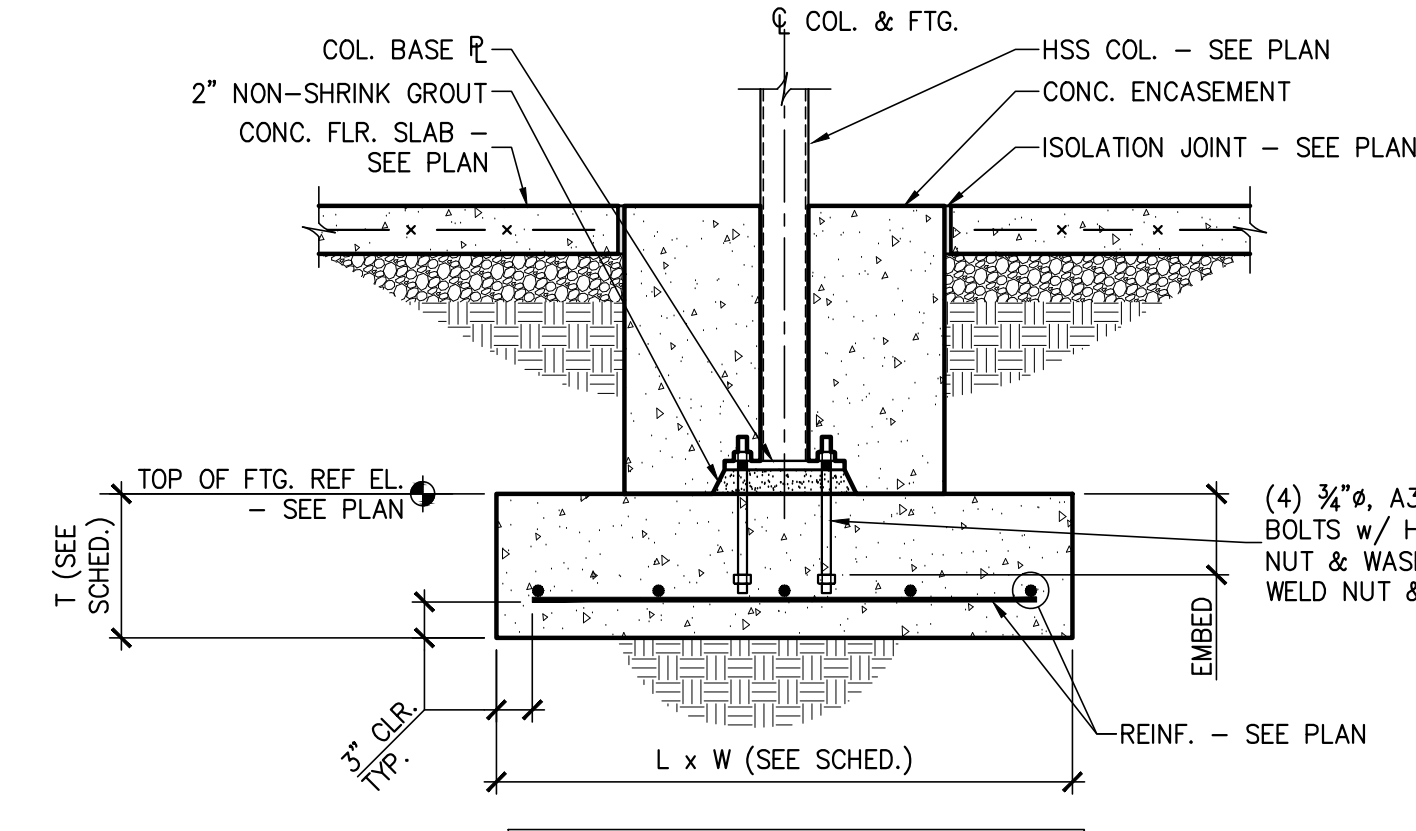
BOLT DIA. 'D'	EMBEDMENT 'E'	REMARKS
3/4"	0'-9"	-
1"	1'-0"	-
1 1/4"	1'-3"	-
1 1/2"	1'-6"	-



8 SECTION - NEW / EXSIT. WALL INTERFACE
S2.1 N.T.S.



PLAN



10 SECTION - TYP. HSS COL. FTG.
S2.1 N.T.S.

MATERIALS KEYING LEGEND

RPA ENGINEERING, P.A.
 Structural Engineering Solutions
 Engineering License Certificate No. C-2734
 102 Regency Blvd. Phone: 252-321-6027
 Suite A1 Fax: 252-355-2179
 Greenville, NC 27834
 RPA Project No.: 2017165

GENERAL NOTES

KEY PLAN

SCO ID #17-18613-01C; NCCCS #2163

NO	REVISION	DATE

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

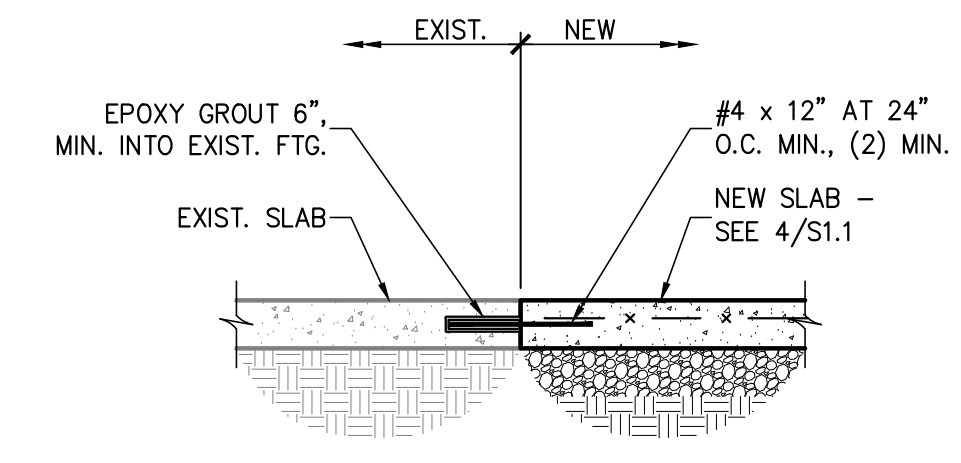
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

FOUNDATION SECTIONS & DETAILS

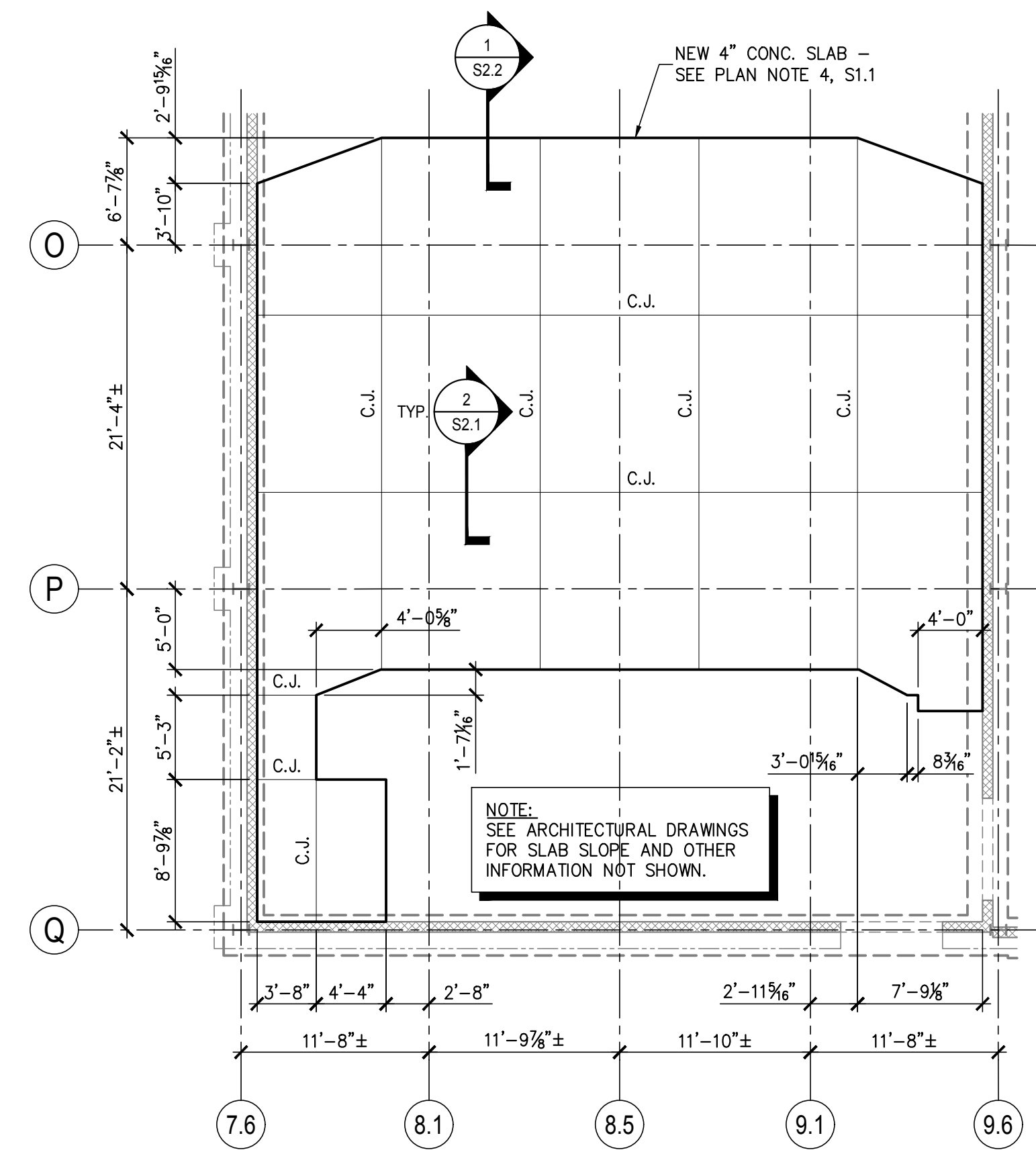
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AS NOTED	
DRAWN	MBM
CHECKED	MSR
DATE	5-20-2024
PROJECT NO.	2018-20B

S2.1

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SECTION - TYP. EXIST. /
NEW SLAB INTERFACE
1
S2.2
N.T.S.



PARTIAL FOUNDATION PLAN -
ALT. NO. 1: NEW SLAB IN EXIST. BLDG.
PROJECT NORTH 1/8" = 1'-0"

MATERIALS KEYING LEGEND

RPA ENGINEERING, P.A.
Structural Engineering Solutions
Engineering License Certificate No. C-2734
102 Regency Blvd. Phone: 252-321-6027
Suite A1 Greenville, NC 27834 Fax: 252-355-2179
RPA Project No.: 2017165

GENERAL NOTES

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SCO ID #17-18613-01C: NCCCS #2163

NO	REVISION	DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
17348
J K F
ARCHITECTURE

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

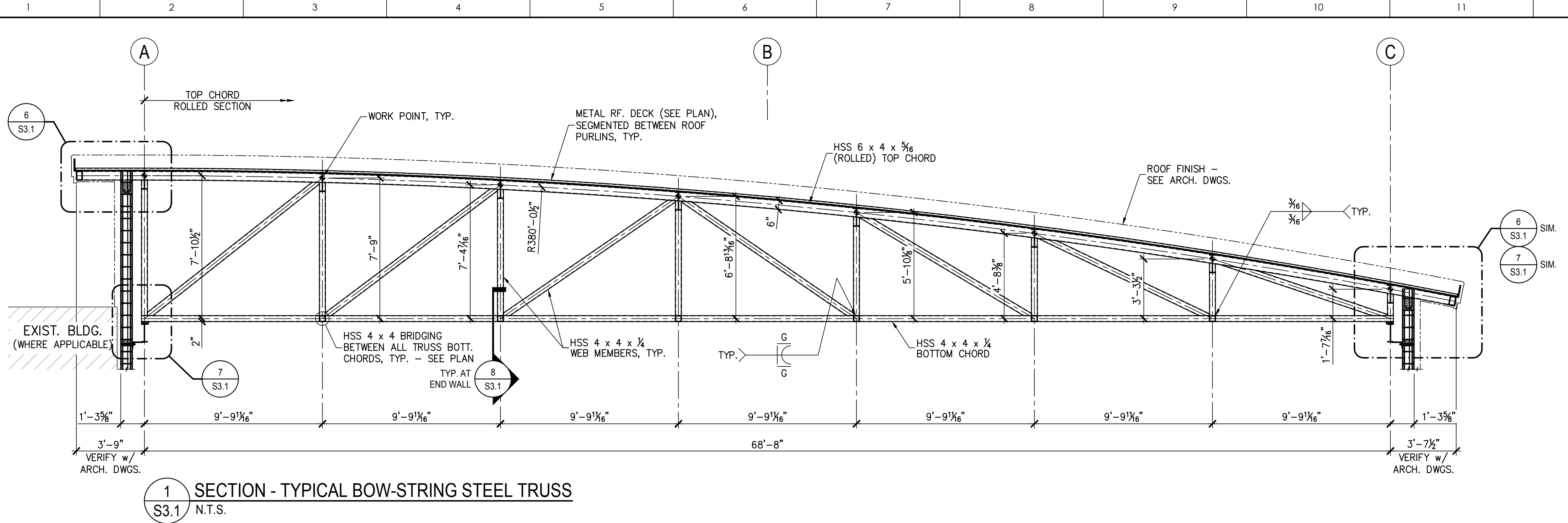
SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
ALT. NO. 1: NEW SLAB PLAN,
SECTIONS & DETAILS

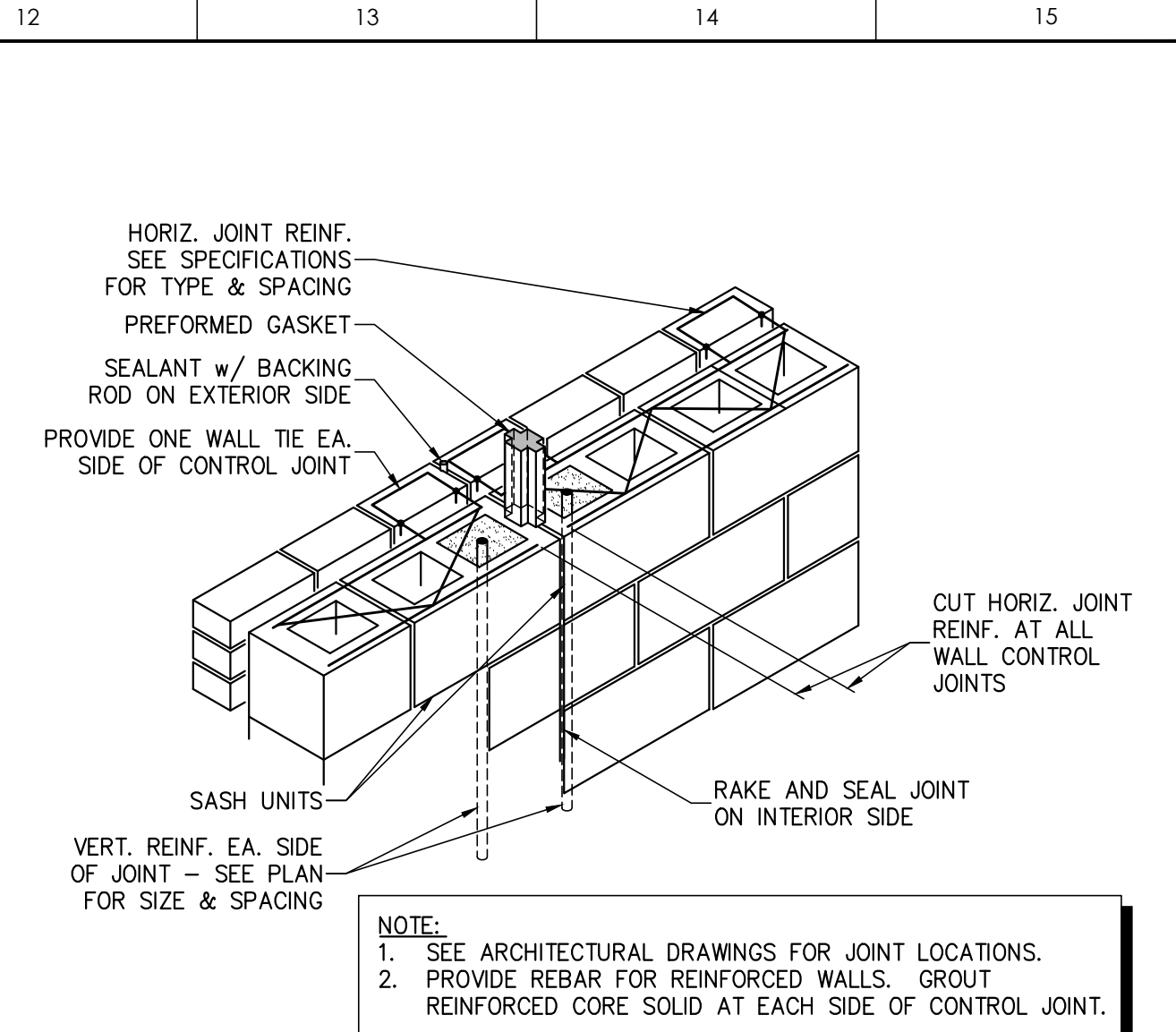
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AS NOTED	
DRAWN	MBM
CHECKED	MSR
DATE	5-20-2024
PROJECT NO.	2018-20B

S2.2

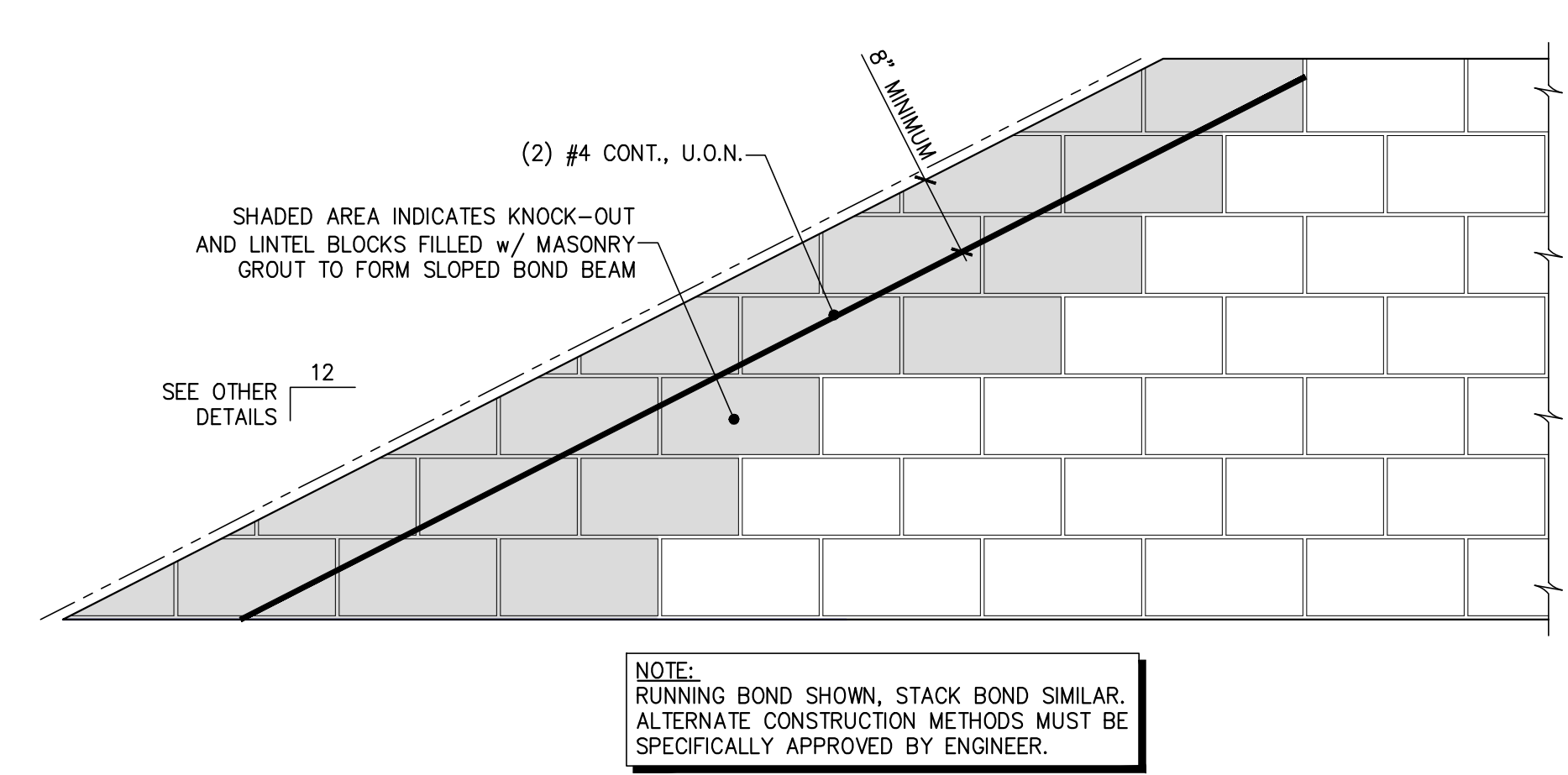
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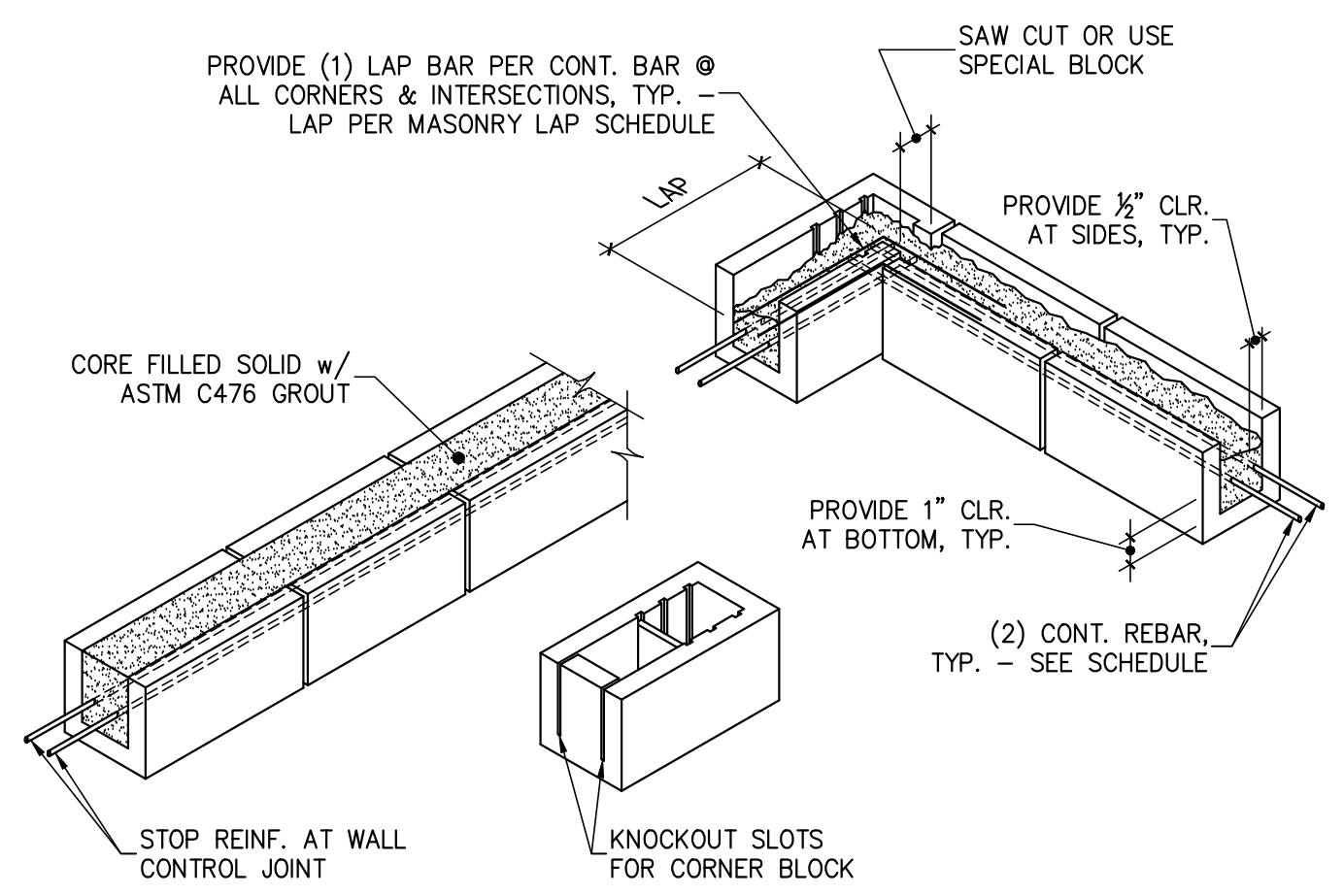
1 SECTION - TYPICAL BOW-STRING STEEL TRUSS
S3.1 N.T.S.



2 DETAIL - TYP. CMU WALL CONTROL JOINT w/ BRICK VENEER
S3.1 N.T.S.



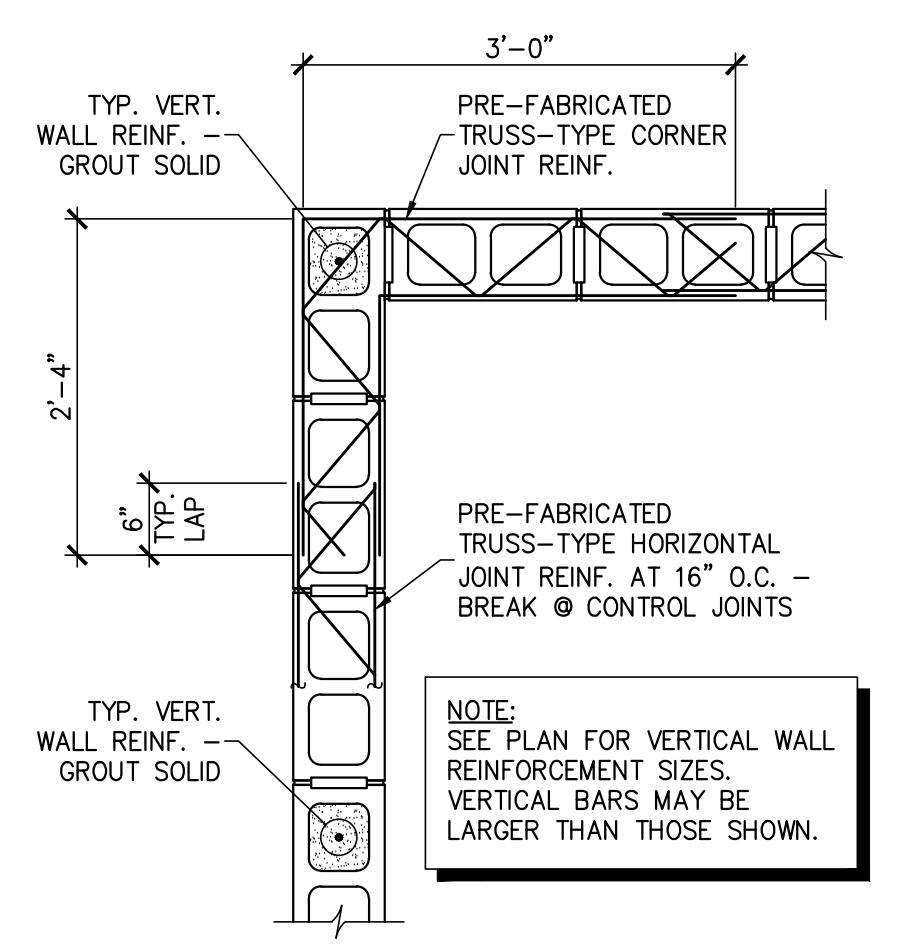
3 ELEVATION - TYP. SLOPING BOND BEAM
S3.1 N.T.S.



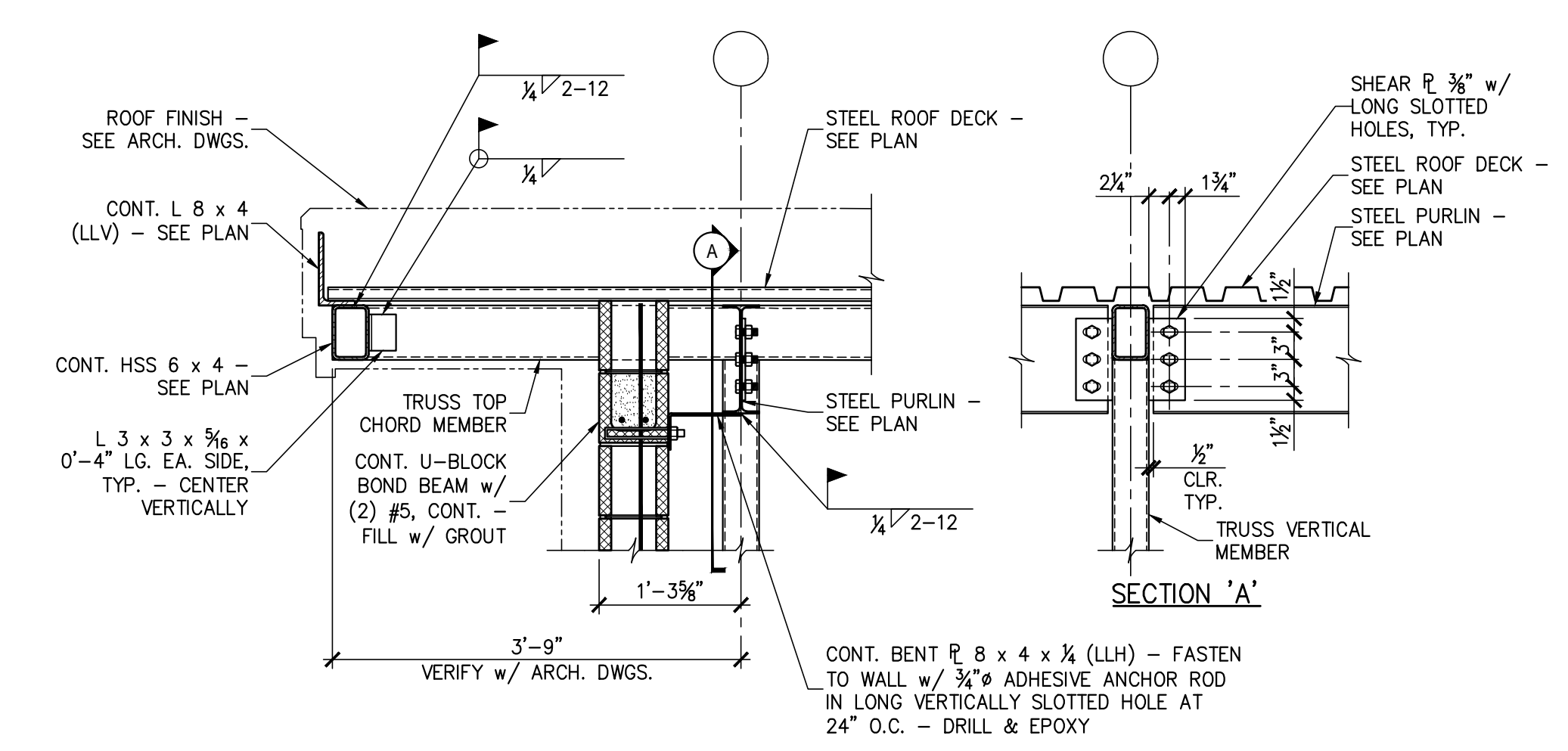
CMU THK.	REINF.	REMARKS
8"	(2) #5	-
12"	(2) #5	-
-	-	-

NOTES:
1. MATCH THICKNESS OF CORNER LAP BARS AND CONTINUOUS BARS.
2. SEE MASONRY LAP SCHEDULE FOR LAP REQUIREMENTS AT CORNERS AND INTERSECTIONS.

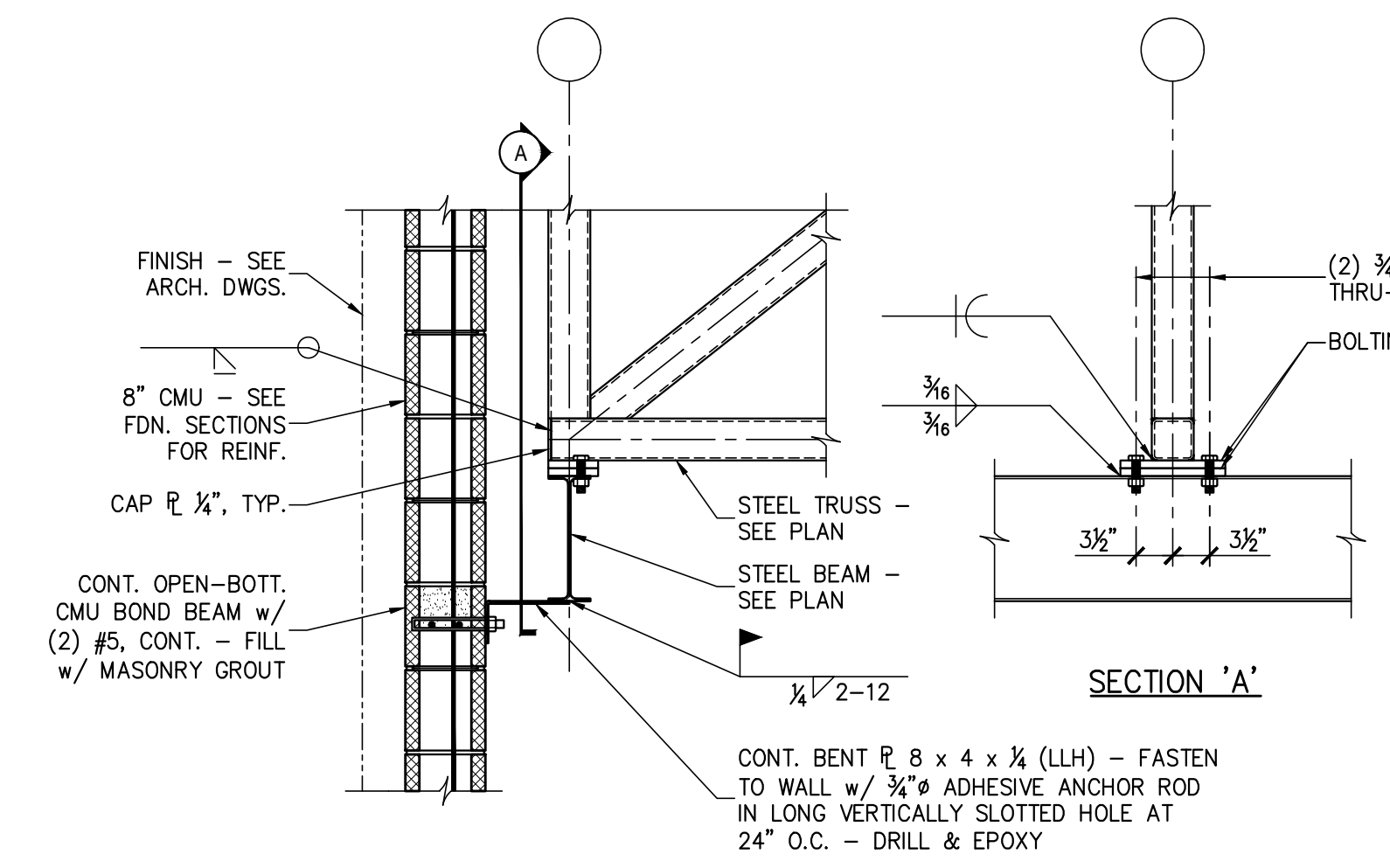
4 DETAIL - TYP. BOND BEAM
S3.1 N.T.S.



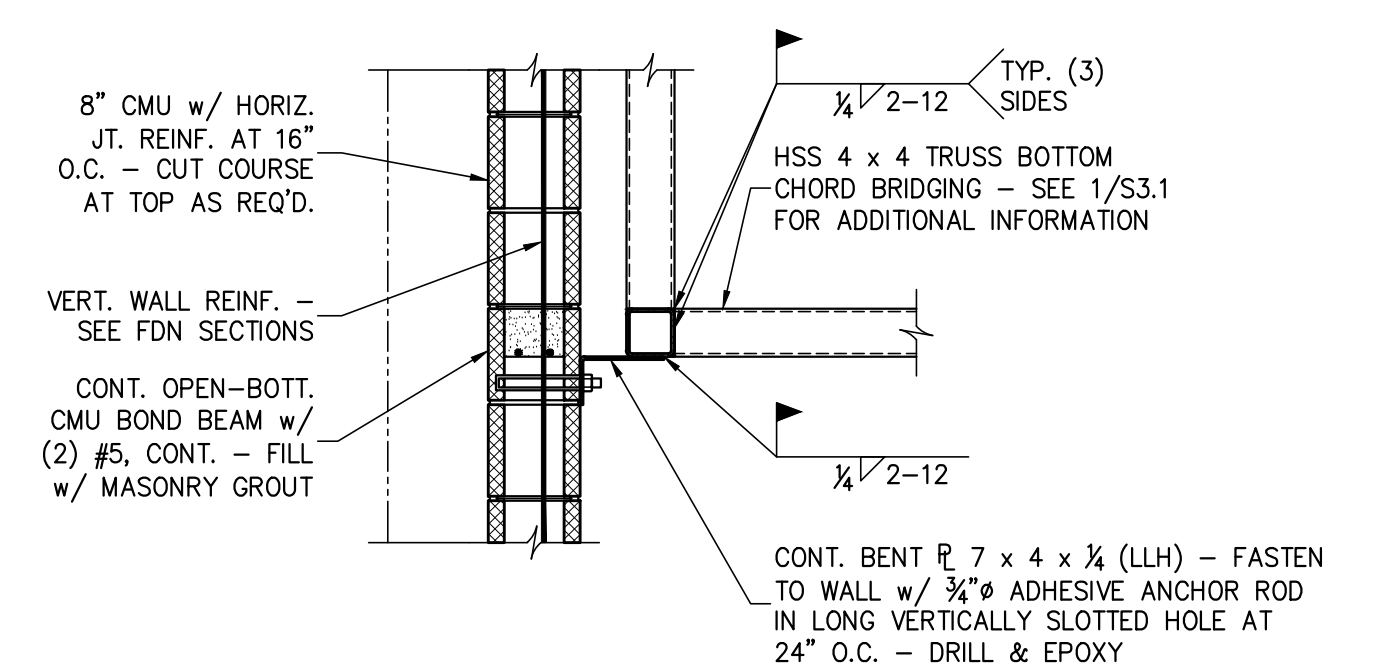
5 PLAN DETAIL - TYP. CMU CORNER REINF.
S3.1 N.T.S.



6 ENLARGED DETAIL AT TRUSS
S3.1 N.T.S.



7 SECTION - TYP. TRUSS BRG.
S3.1 N.T.S.



8 SECTION - TYP. TRUSS / CMU END WALL CONN.
S3.1 N.T.S.

MATERIALS KEYING LEGEND

RPA ENGINEERING, P.A.
Structural Engineering Solutions
Engineering License Certificate No. C-2734
102 Regency Blvd. Phone: 252-321-6027
Suite A1 Fax: 252-355-2179
Greenville, NC 27834
RPA Project No.: 2017165

GENERAL NOTES

KEY PLAN

SCO ID #17-18613-01C; NCCCS #2163

NO	REVISION	DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER 17348
ARCHITECTURE: JK F

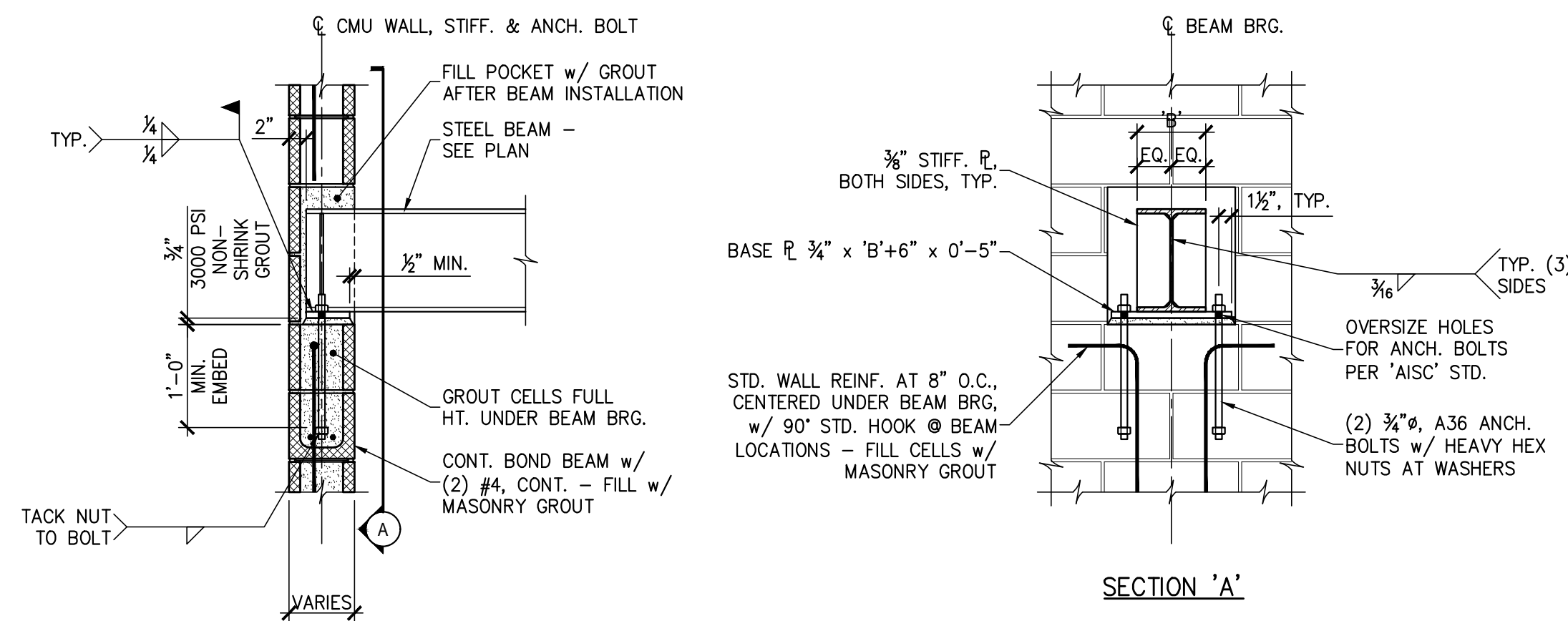
625 LYNDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

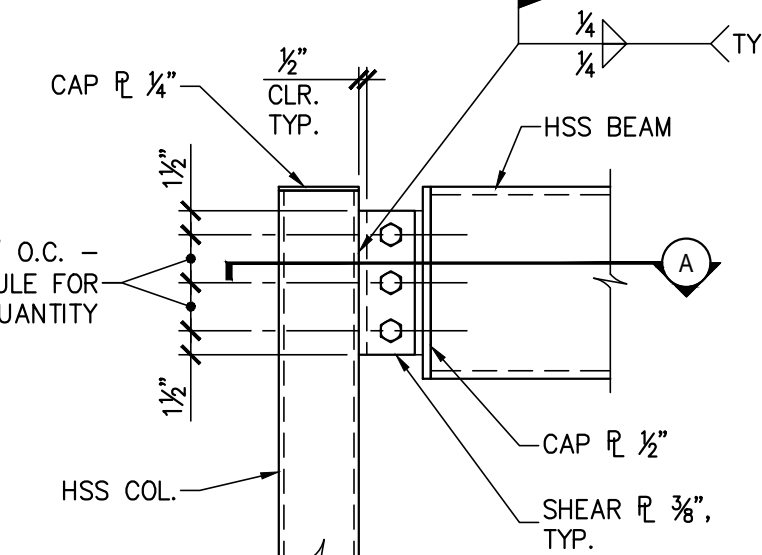
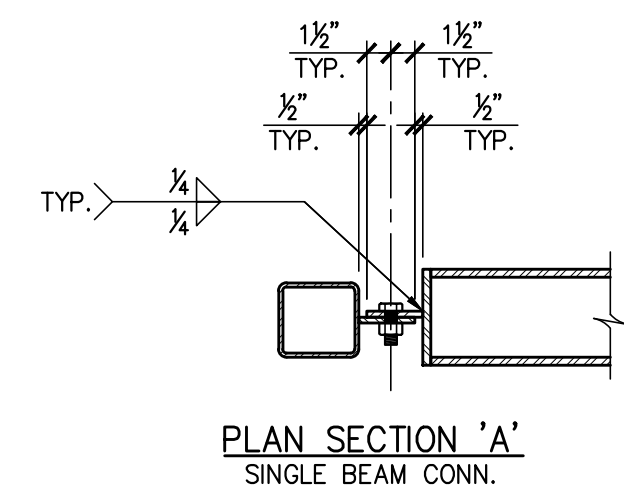
FRAMING SECTIONS & DETAILS

SCALE	DRAWING NO.
AS NOTED	S3.1
DRAWN BY	MBM
CHECKED BY	MSR
DATE	5-20-2024
PROJECT NO.	2018-20B

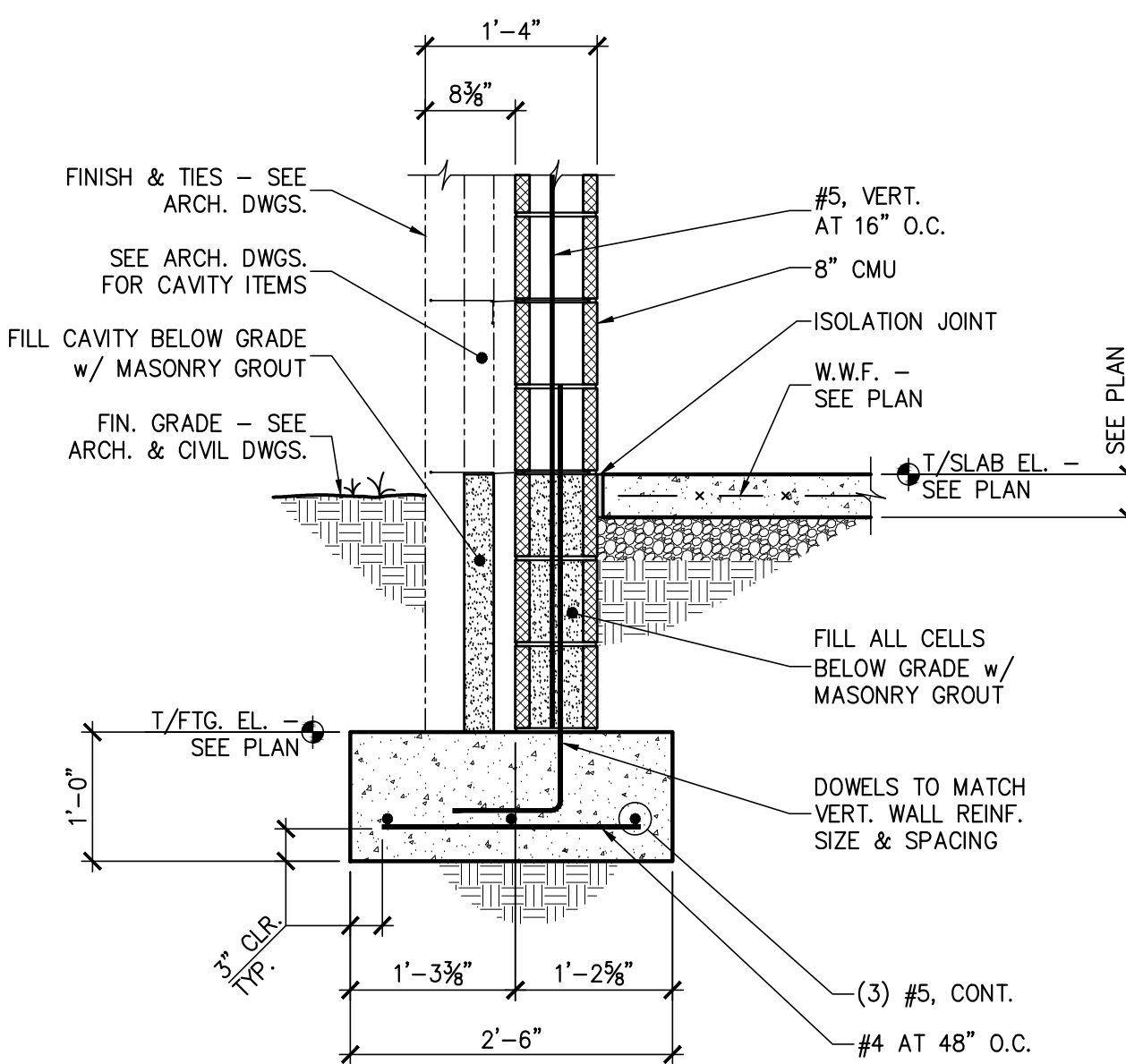
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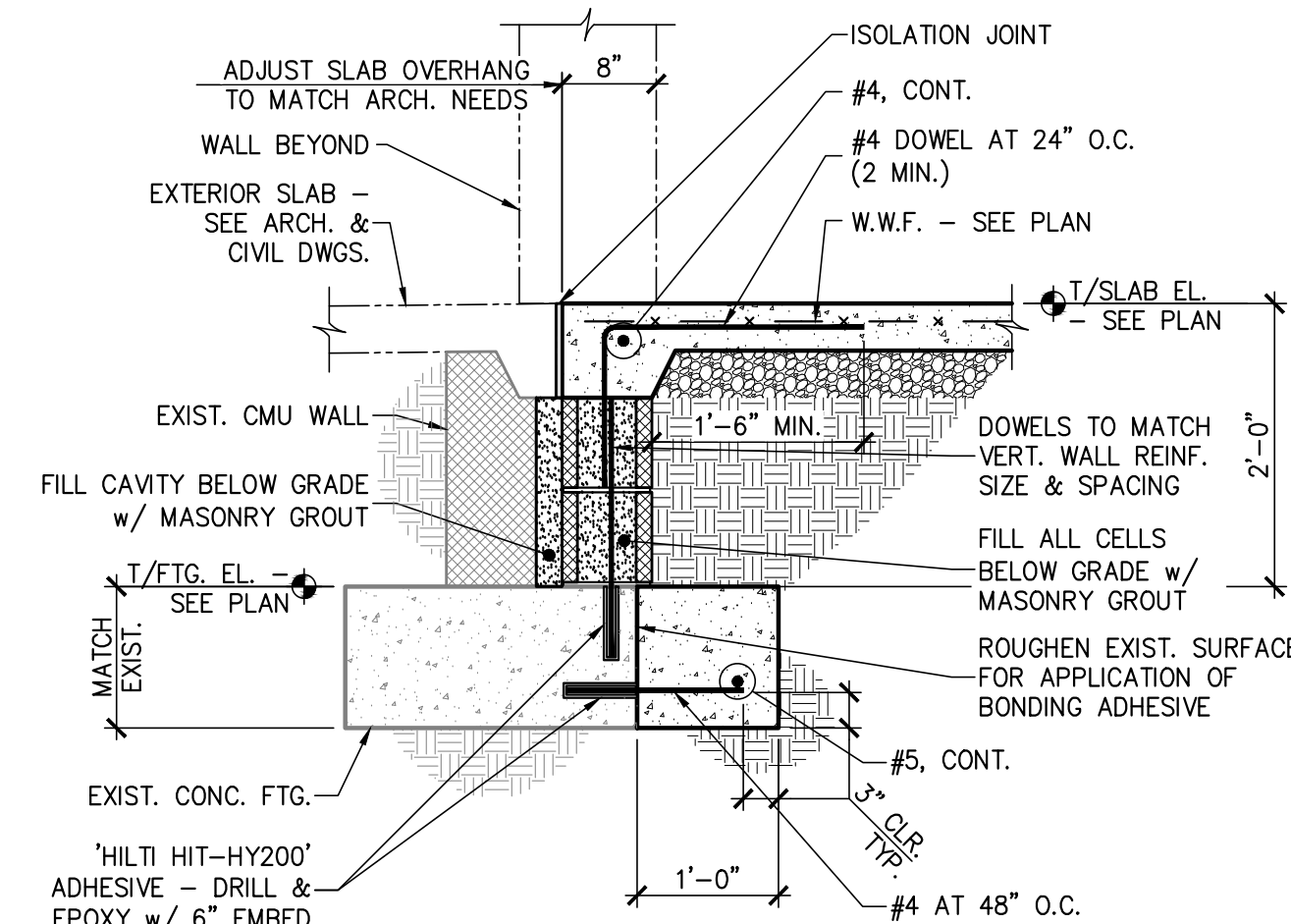
1 SECTION - TYP. STEEL BEAM BRG. ON PERPENDICULAR CMU
S3.2 N.T.S.



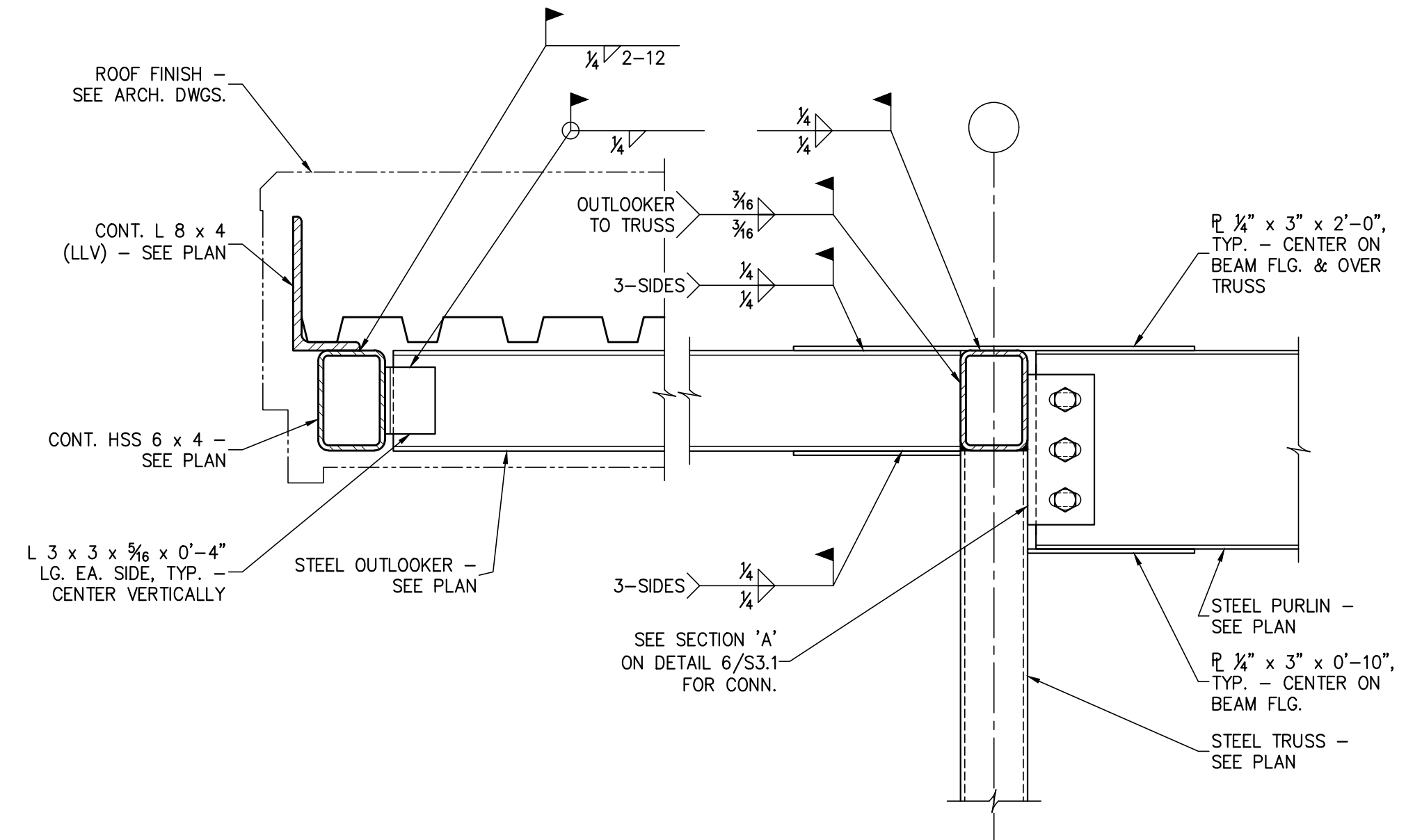
3 SECTION - HSS BEAM TO HSS COL. CONN.
S3.2 N.T.S.



5 SECTION - TYP. FTG. AT 8" CMU WALL
S3.2 N.T.S.



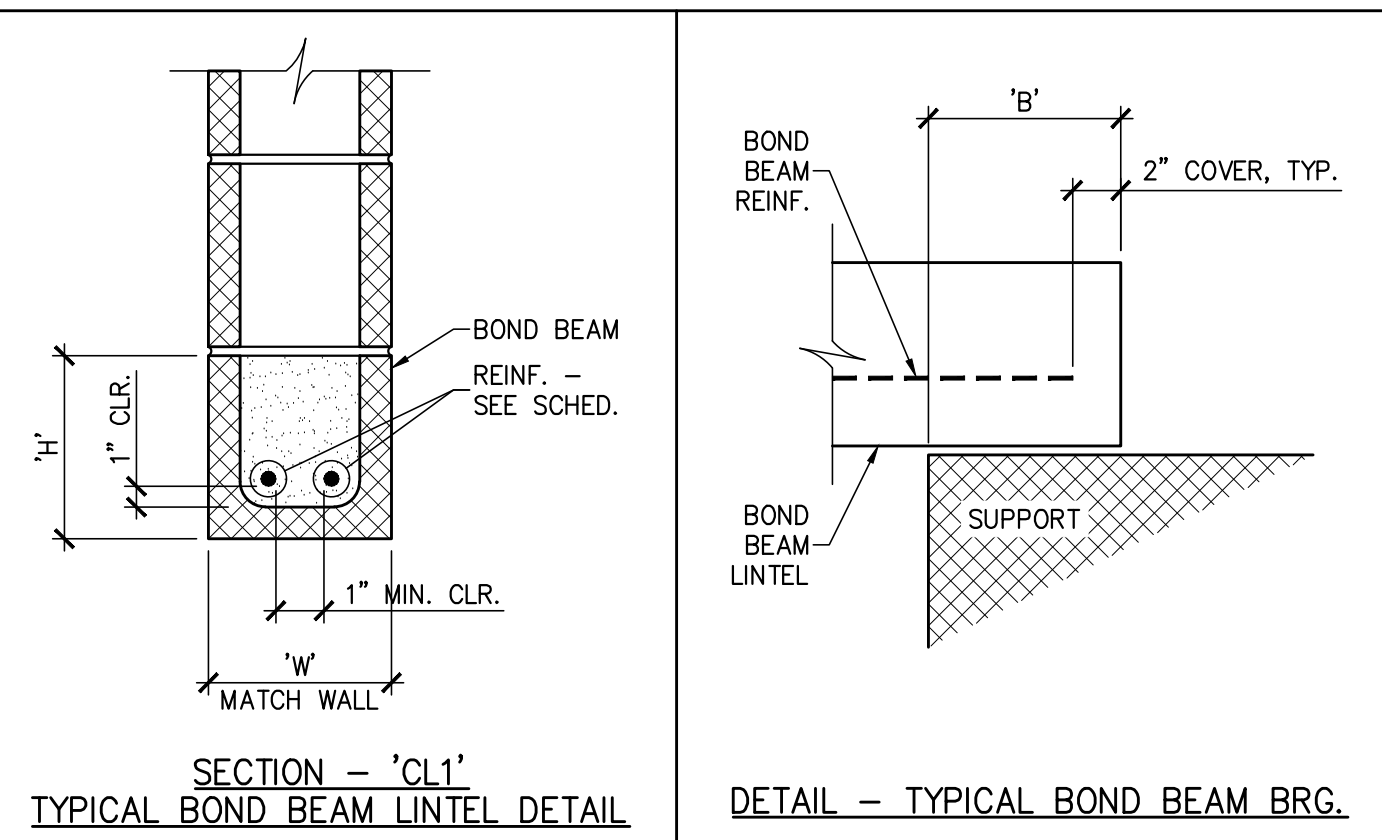
6 SECTION - TYP. EXT. DOOR WALL FTG.
S3.2 N.T.S.



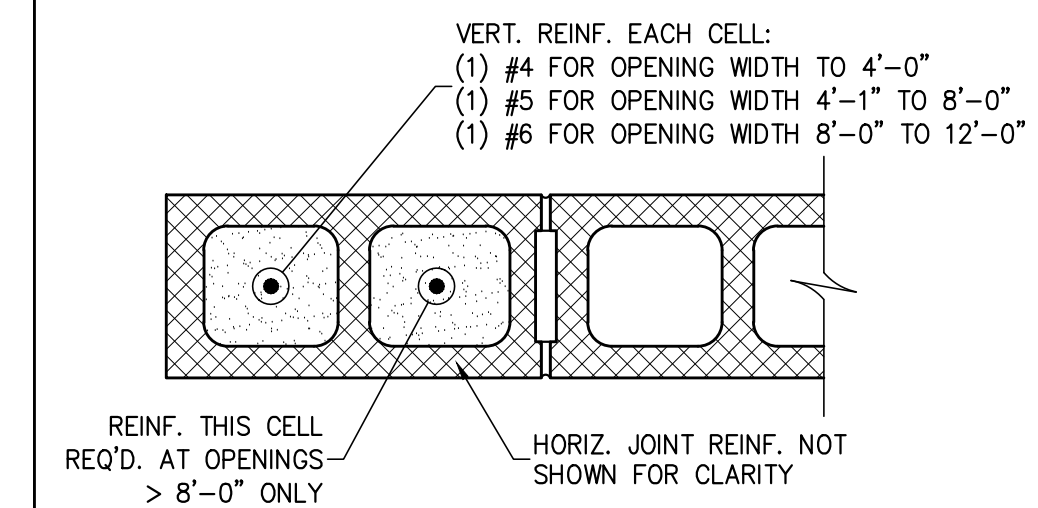
2 SECTION - MOMENT CONNECTION
S3.2 N.T.S.

CONCRETE MASONRY LINTEL SCHEDULE					
LINTEL MARK	WIDTH 'W'	HEIGHT 'H'	BRG. 'B'	REINFORCING	REMARKS
CL1	WALL	8"	8"	(2) #5	SEE PLAN FOR LOCATION
CL2	WALL	16"	8" (U.O.N.)	(2) #5	SEE PLAN FOR LOCATION
CL3	WALL	24"	16"	(2) #5	SEE PLAN FOR LOCATION

MASONRY LINTEL SCHEDULE NOTES:
 1. PROVIDE REINFORCING BOND BEAM LINTELS FOR ALL CONCRETE MASONRY OPENINGS ACCORDING TO SPAN SCHEDULE BELOW, UNLESS OTHERWISE NOTED
 0'-0" < CLR. OP'NG. ≤ 4'-0" CL1
 4'-0" < CLR. OP'NG. ≤ 6'-0" CL1
 6'-0" < CLR. OP'NG. ≤ 8'-0" CL2
 8'-0" < CLR. OP'NG. ≤ 10'-0" CL2 w/ 16" BRG. EA. END
 10'-0" < CLR. OP'NG. ≤ 12'-0" CL3
 2. PROVIDE 'CL1' LINTEL BELOW ALL WALL OPENINGS UNLESS OTHERWISE NOTED (WINDOW SILLS, ETC.)

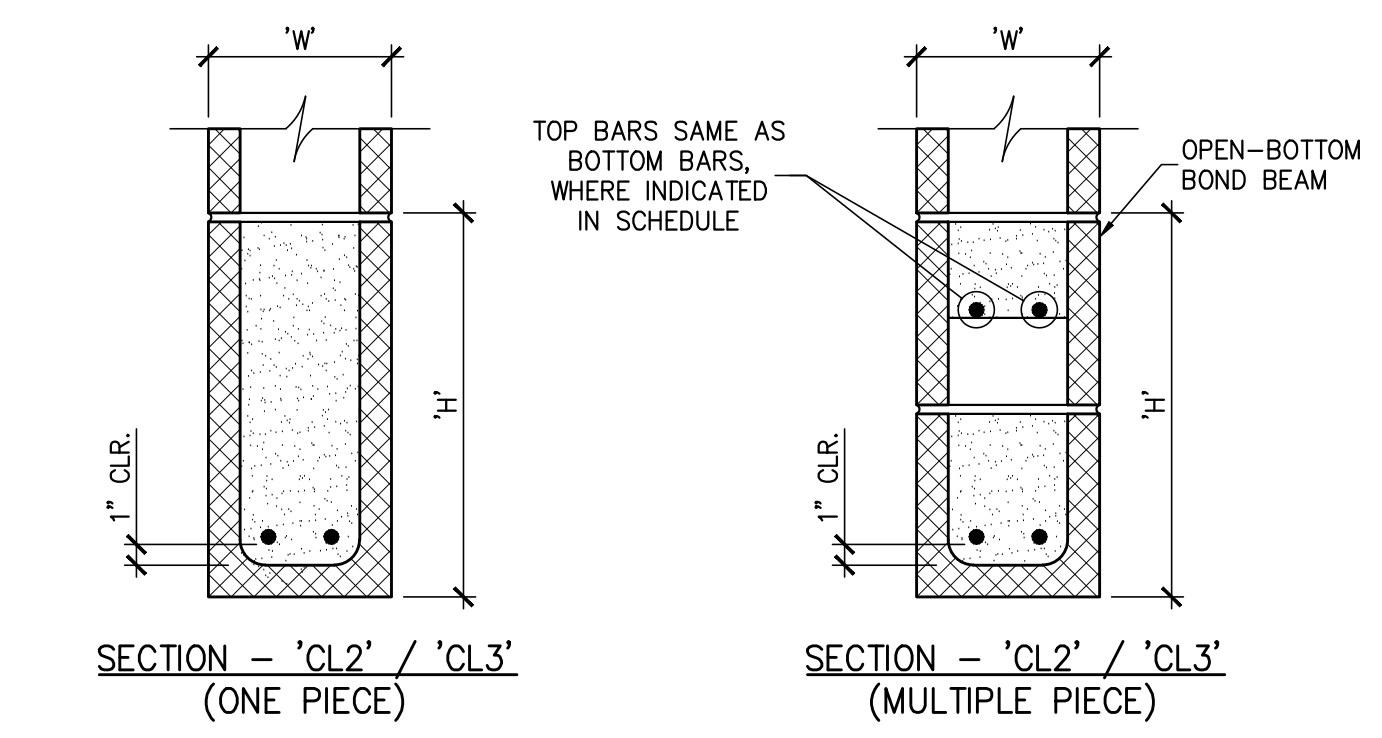


DETAIL - TYPICAL BOND BEAM BRG.



TYPICAL JAMB @ EXTERIOR CMU DETAIL NOTES:
 1. OPENING WIDTH SHALL NOT EXCEED 12'-0" FOR THIS TYPE OF JAMB, UNLESS OTHERWISE NOTED.
 2. THIS TYPE OF JAMB APPLIES WHERE ALL CMU LINTELS ARE USED, UNLESS OTHERWISE NOTED.

PLAN SECTION - JAMB



4 CONCRETE MASONRY LINTEL SCHEDULE
S3.2 N.T.S.

MATERIALS KEYING LEGEND

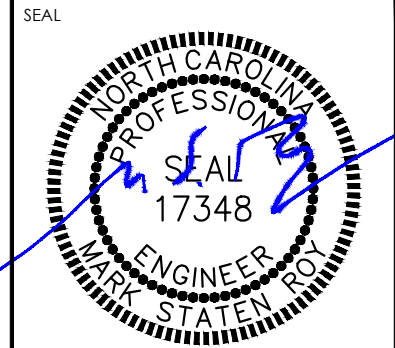
RPA ENGINEERING, P.A.
 Structural Engineering Solutions
 Engineering License Certificate No. C-2734
 102 Regency Blvd. Phone: 252-321-6027
 Suite A1 Greenville, NC 27834 Fax: 252-355-2179
 RPA Project No.: 2017165

GENERAL NOTES

KEY PLAN

SCO ID #17-18613-01C; NCCCS #2163

NO REVISION DATE



J K F
 ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
 CLINTON, NC

FRAMING SECTIONS & DETAILS

SCALE	AS NOTED	DRAWING NO.	S3.2
DRAWN	MBM		
CHECKED	MSR		
DATE	5-20-2024		
PROJECT NO.	2018-20B		

Statement of Special Inspections

Project: Sampson Community College Activities Building Addition
Location: Clinton, NC
Owner: Sampson County
Design Professional In Responsible Charge: Mark S. Roy, PE

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code.

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

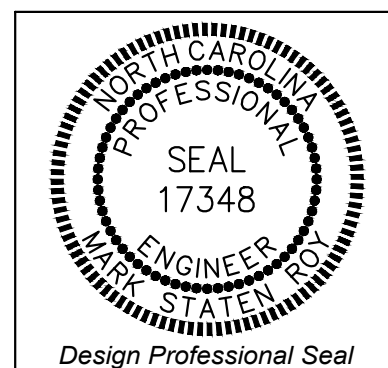
A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: Weekly Quarterly Monthly Per Attached Schedule

Prepared by:

Signature: Mark S. Roy, PE
Date: 6-12-2024



Owner's Authorization: Building Official's Acceptance:

Signature Date Signature Date

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- X Soils and Foundations
X Cast-in-Place Concrete
X Precast Concrete
X Masonry
X Structural Steel
Cold-Formed Steel Framing
Spray Fire Resistant Material
Wood Construction
X Exterior Insulation and Finish System
Mechanical & Electrical Systems
Architectural Systems
Special Cases

Table with 3 columns: Special Inspection Agencies, Firm, Address, Telephone, e-mail. Lists agencies for Special Inspection Coordinator, Structural Engineer of Record, Architect of Record, Testing Agency, etc.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category: C
Quality Assurance Plan Required (Y/N): N

Description of seismic force resisting system and designated seismic systems: Intermediate Reinforced Masonry Wall

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust): 140 mph
Wind Exposure Category: B
Quality Assurance Plan Required (Y/N): N

Description of wind force resisting system and designated wind resisting components: Masonry Shear Walls

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Special Inspections General Notes

- 1. The inspection and testing agencies shall be engaged by the owner's agent and not by the contractor or sub-contractor whose work is to be inspected or tested.
2. Each Special Inspection Agency shall submit a Final Report of Special Inspections to the Special Inspection Coordinator at the conclusion of the project.

Schedules of Special Inspection Services

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for SOILS AND FOUNDATIONS and CAST-IN-PLACE CONCRETE.

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for MASONRY and STRUCTURAL STEEL.

Table with 4 columns: ITEM, QUALIFICATIONS, SCOPE, REQUIRED INSPECTION LEVEL. Lists services for MASONRY.

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for STRUCTURAL STEEL.

SPRAY-APPLIED FIRE RESISTANCE MATERIAL

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for SPRAY-APPLIED FIRE RESISTANCE MATERIAL.

EXTERIOR INSULATION & FINISH SYSTEM (EIFS)

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for EXTERIOR INSULATION & FINISH SYSTEM (EIFS).

MECHANICAL & ELECTRICAL SYSTEMS

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for MECHANICAL & ELECTRICAL SYSTEMS.

ARCHITECTURAL SYSTEMS

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for ARCHITECTURAL SYSTEMS.

SPECIAL CASES

Table with 3 columns: ITEM, QUALIFICATIONS, SCOPE. Lists services for SPECIAL CASES.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

PE/SE Structural Engineer - a licensed SE or PE specializing in the design of building structures
PE/GE Geotechnical Engineer - a licensed PE specializing in soil mechanics and foundations
EIT Engineer-In-Training - a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT Concrete Field Testing Technician - Grade 1
ACI-CCI Concrete Construction Inspector
ACI-LTT Laboratory Testing Technician - Grade 1&2
ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI Certified Welding Inspector
AWS/AISC-SSI Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician - Level II or III.

International Code Council (ICC) Certification

ICC-SMSI Structural Masonry Special Inspector
ICC-SWSI Structural Steel and Welding Special Inspector
ICC-SFSI Spray-Applied Fireproofing Special Inspector
ICC-PCSI Prestressed Concrete Special Inspector
ICC-RCSI Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT Concrete Technician - Levels I, II, III & IV
NICET-ST Soils Technician - Levels I, II, III & IV
NICET-GET Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification

EDI-EIFS EIFS Third Party Inspector

Other

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MATERIALS KEYING LEGEND

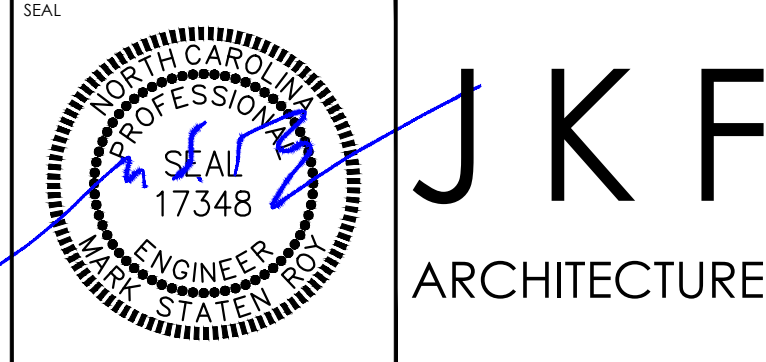
RPA ENGINEERING, P.A. Structural Engineering Solutions
Engineering License Certificate No. C-2734
102 Regency Blvd. Suite A1 Greenville, NC 27834
Phone: 252-321-6027 Fax: 252-355-2179
RPA Project No.: 2017165

GENERAL NOTES

KEY PLAN

SCO ID #17-18613-01C: NCCCS #2163

NO REVISION DATE



SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

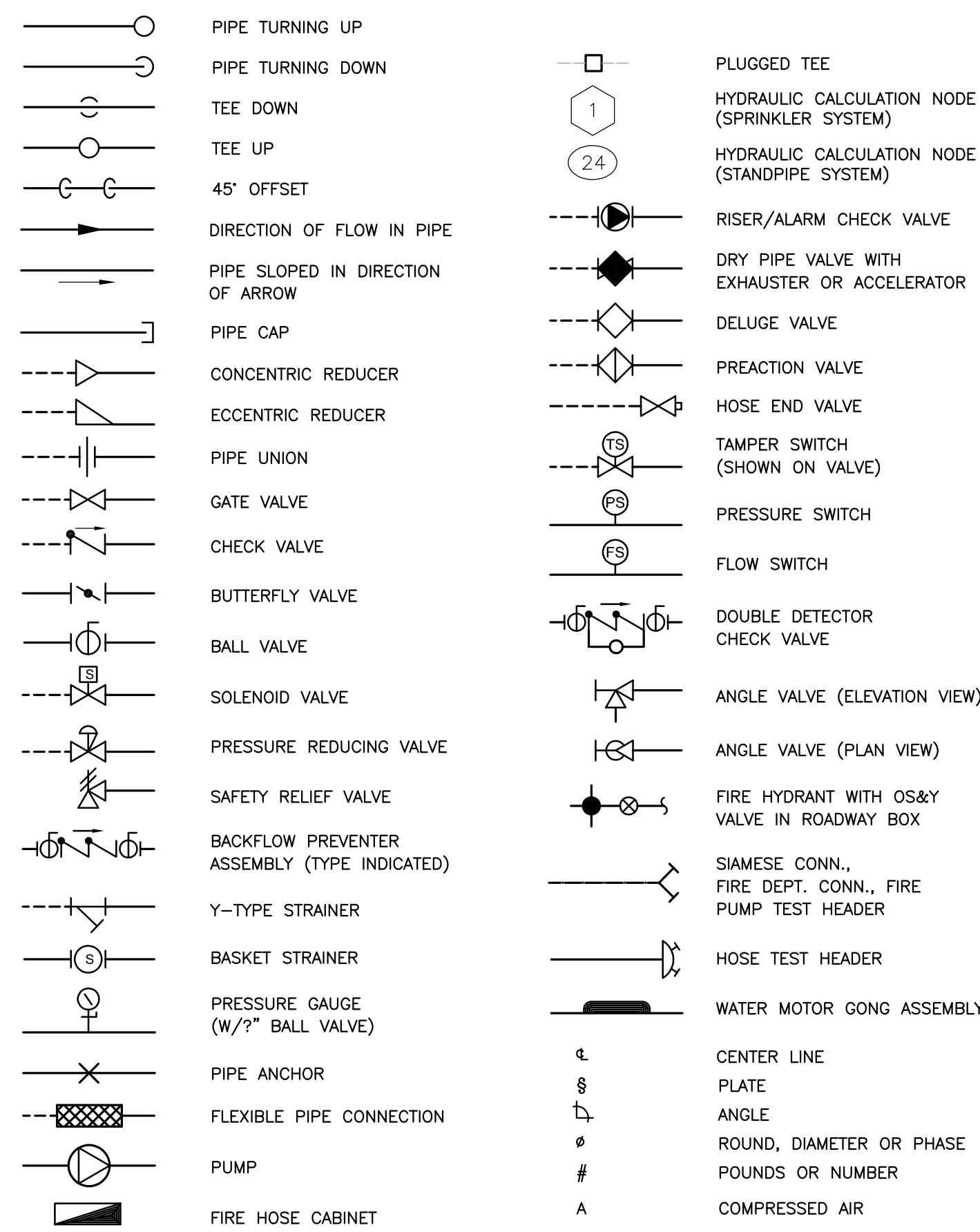
STATEMENT OF SPECIAL INSPECTIONS

Table with 2 columns: SCALE, DRAWING NO. AS NOTED MBM
CHECKED: MSR
DATE: 5-20-2024
PROJECT NO.: 2018-20B

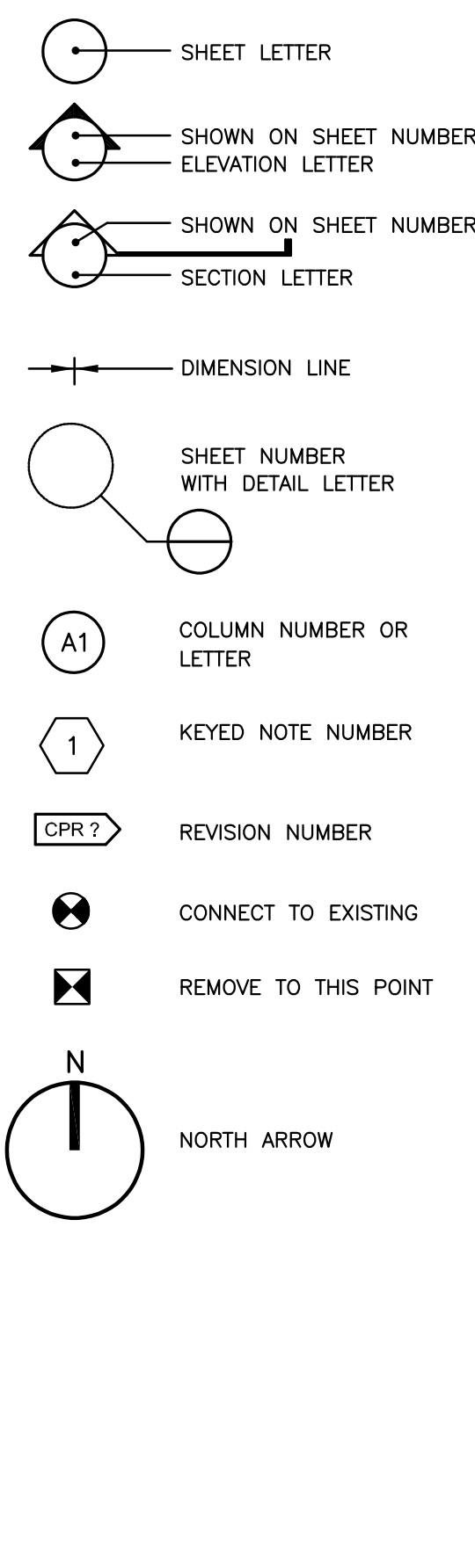
S4.1

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FIRE PROTECTION SYMBOLS



GENERAL SYMBOLS



GENERAL NOTES

- NOT ALL SYMBOLS & ABBREVIATIONS SHOWN ON THIS DRAWING MAY BE USED FOR THIS PROJECT. UNLESS OTHERWISE NOTED, EACH TRADE CONTRACTOR IS RESPONSIBLE FOR CUTTING, CORE DRILLING, PATCHING, ETC. TO INSTALL HIS RESPECTIVE WORK. COORDINATE WORK OF THIS TRADE WITH OTHER TRADE CONTRACTORS. REPAIR ANY DAMAGE TO FIRE PROOFING MATERIAL DUE TO INSTALLATION OF HANGERS AND SUPPORTS. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) IN ACCORDANCE WITH THE UL LISTED SYSTEMS. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH NON-RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) TO REDUCE TRANSFER OF SOUND THROUGH THE ASSEMBLIES. GYPSUM WALLBOARD "MUD" MAY BE USED FOR THIS PROCESS. EXAMINE THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF THIS PROJECT; INCLUDING DEMOLITION WORK. EXISTING AREAS OF THE FACILITY (WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS) DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. REPORT IMMEDIATELY TO THE ARCHITECT AND OWNER ANY MATERIAL ENCOUNTERED DURING DEMOLITION THAT HAS BEEN IDENTIFIED AS, OR IS SUSPECTED OF, CONTAINING ASBESTOS. COORDINATE / SCHEDULE ALL SHUTDOWNS OF EXISTING UTILITIES IN ADVANCE WITH THE OWNER. UNLESS NOTED OTHERWISE, ALL SPRINKLER PIPING SERVING INDIVIDUAL SPRINKLER HEADS SHALL BE 1" SCHEDULE 40 BLACK STEEL. PROVIDE MIN. PITCH OF PIPE REQUIRED TO DRAIN SYSTEM. PITCH PIPE TOWARDS INSPECTOR'S TEST STATION AND/OR MAIN RISER. PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF SYSTEM TO EVACUATE AIR FROM SYSTEM. FIRE PROTECTION INSTALLATIONS SHALL MEET THE REQUIREMENTS OF NFPA 13, AND ANY STATE OR LOCAL AUTHORITY HAVING JURISDICTION. ALL SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF TILE WHERE LAY-IN CEILINGS OCCUR UNLESS NOTED OTHERWISE. DRAWINGS AND CALCULATIONS SHALL INCLUDE THE FIRE PROTECTION CONTRACTORS NORTH CAROLINA FIRE SPRINKLER CONTRACTOR'S LICENSE AND THE RESPONSIBLE INDIVIDUAL'S NAME AND NICET LEVEL. ALL SPRINKLER PIPING, AS SHOWN, IS DIAGRAMMATIC WITH APPROXIMATE PIPE LOCATIONS, ELEVATIONS, ROUTING, ETC., AND IS PROVIDED FOR INFORMATIONAL PURPOSES. EVERY FITTING, ELL, TEE AND LENGTH OF PIPE MAY NOT BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE CONTRACT DRAWINGS AND COORDINATE THE FIRE PROTECTION SYSTEM INSTALLATION WITH THE BUILDING STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THE FIRE PROTECTION CONTRACTOR SHALL CREATE A FABRICATION DRAWING SHOWING ALL PIPE SIZES, LOCATION, ROUTING, HANGERS & ELEVATIONS THAT IS A RESULT OF THIS COORDINATION EFFORT. NECESSARY OFFSETS IN PIPING REQUIRED TO PROPERLY INSTALL THE FIRE PROTECTION SYSTEM AS TO TAKE UP MINIMUM SPACE SHALL BE FURNISHED AND INSTALL BY THE CONTRACTOR WITH NO ADDITIONAL EXPENSE TO THE OWNER. FIRE PROTECTION CONTRACTOR SHALL NOTE THE SEISMIC DESIGN CATEGORY LISTED IN THE BUILDING CODE SUMMARY SECTION OF THE ARCHITECTURE DRAWINGS AND SHALL PROVIDE SEISMIC RESTRAINT DESIGN IN COMBINATION WITH REQUIRED PRODUCT DATA, HYDRAULIC CALCULATIONS, AND WET SYSTEM LAYOUT SHOP DRAWINGS WHERE REQUIRED.

WATER SUPPLY INFORMATION

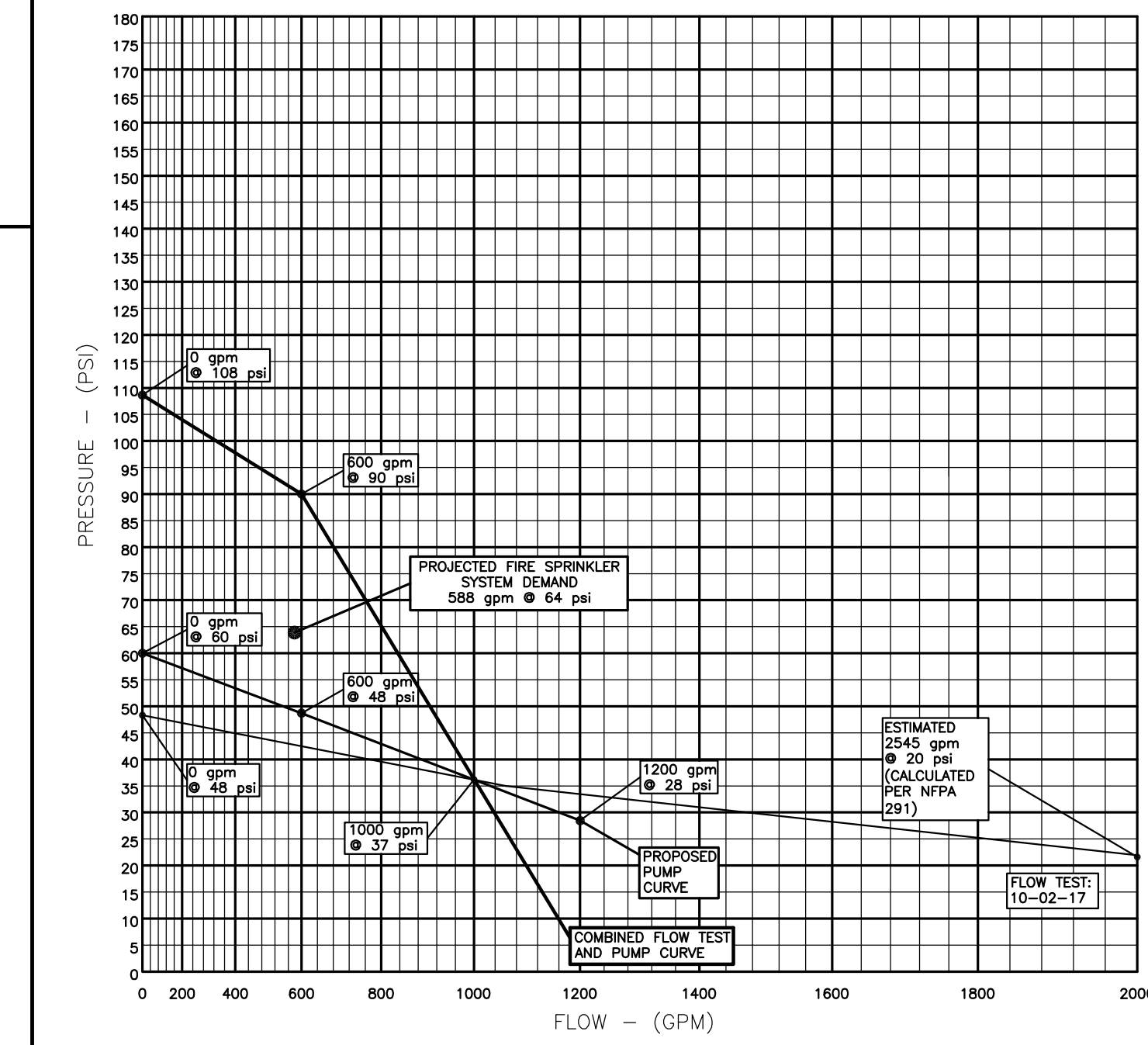
Table with water supply data: Tested By: MICHAEL CHRISTOPHER MEDLIN - CITY OF CLINTON PUBLIC WORKS MANAGER - (910)299-4905 X3059. Hydrant Elev. 162' (+/-), Pressure Hydrant: Static 45 psi, Pitot Pressure -, Flow Hydrant: -.

PRELIMINARY HYDRAULIC ANALYSIS

MOST DEMANDING OCCUPANCY DESIGN ASSUMPTIONS: WET SPRINKLER SYSTEM PROTECTION FOR UPPER LEVEL MECH. PLATFORM ORDINARY HAZARD GROUP I OCCUPANCY, PROTECTED WITH SSU HEADS.

- WATER FLOW QUANTITY: (A) DENSITY * DESIGN AREA * 150 = 338 GPM; (B) OUTSIDE HOSE STREAM DEMAND = 250 GPM; (C) OTHER = 0 GPM; TOTAL WATER DEMAND = 588 GPM. WATER PRESSURE: (A) END - HEAD - PRESSURE [DENSITY * (AREA/HEAD / K-FACTOR)^2] = 13 PSI; (B) ELEVATION LOSS = HEIGHT * .433 (25' HEIGHT) = 11 PSI; (C) OUTSIDE FRICTION LOSS (INCLUDES 6' REDUCED PRESSURE BACKFLOW PREVENTER) = 20 PSI; (D) INSIDE FRICTION LOSS = 20 PSI; TOTAL PRESSURE (A+B+C+D) = 64 PSI. PROJECTED FIRE PROTECTION DEMAND: 588 GPM @ 64 PSI.

WATER SUPPLY CURVE



SPRINKLER DESIGN / BUILDING DATA

Table with project data: Project Name: SAMPSON COMMUNITY COLLEGE - ACTIVITIES BUILDING, Project Location: CLINTON, NC, OCCUPANCY: ASSEMBLY (A-3), CONSTRUCTION: II-B, GROSS BLDG AREA: 10,000 SF, SPRINKLERS: YES, MIN. REQUIRED FIRE FLOW: 1,500 GPM, MIN. REQUIRED FLOW DURATION: 2 HRS.

DESIGN SUMMARY

Table with design summary data for Design Area 1 and Design Area 2, including Design Method, System Id No., Location, Type of System, Hazard Class, Criteria From, Design Area, Spacing, Density, K-Factor, Hose Allowance, # Design Sprkls, Requirements, G.P.M. Req'd, P.S.I. Req'd, Node #, Safety Factor, G.P.M., and P.S.I.

FIRE/JOCKEY PUMP SCHEDULE

Table with fire/jockey pump schedule data: MARK, GPM, PSI, HP, VOLTS, PHASE, REMARKS.

TABLE 8-6.5.1.2 POSITION OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP). Table with columns: DISTANCE FROM SPRINKLER TO SIDE OF OBSTRUCTION (A), MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (B).

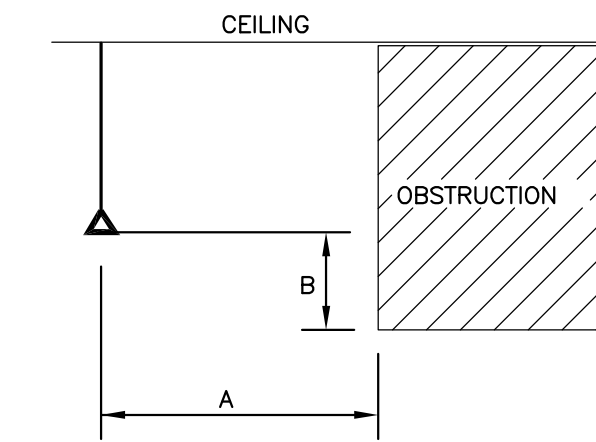


FIGURE 8-6.5.1.2(a) POSITION OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP).

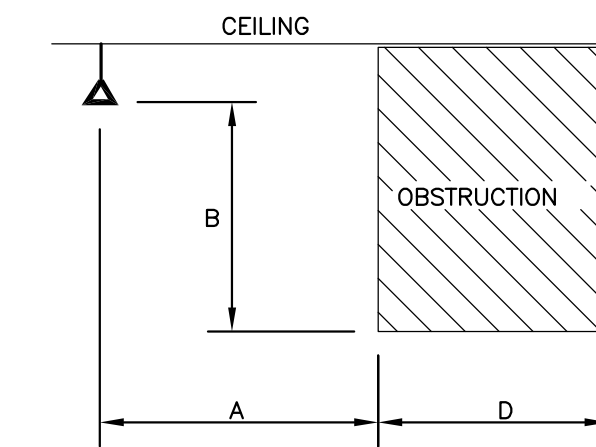


FIGURE 8-6.5.1.2(b) OBSTRUCTIONS AGAINST WALLS (SSU/SSP).

1 TYPICAL SOFFIT/SPRINKLER HEAD INSTALLATION FPO.1 NOT TO SCALE. TABLE AND FIGURES FROM LATEST EDITION NFPA 13.

CONSULTANT



KEY PLAN



SCO ID #17-16813-01C; NCCCS #2163

Table with columns: NO, REVISION, DATE.



SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

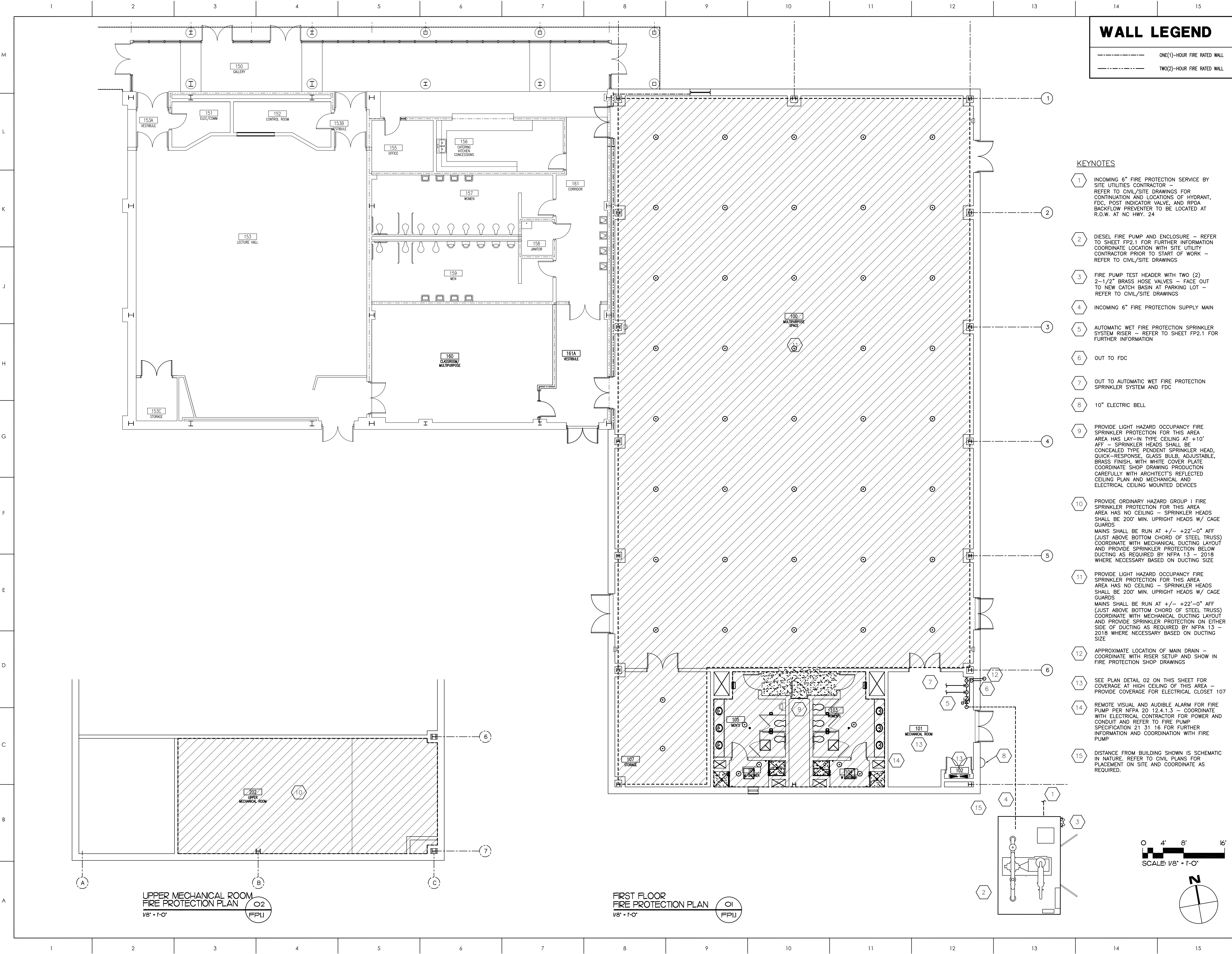
DRAWING TITLE: FIRE PROTECTION SYMBOLS, GENERAL NOTES, ANALYSIS

Table with drawing information: SCALE: NTS, DRAWING NO, DRAWN: DJL, CHECKED: SWC, DATE: 5-20-2024, PROJECT NO: 2016-20B.

FIRE PROTECTION SHEET LISTING

Table with sheet listing data: FPO.1 FIRE PROTECTION SYMBOLS, GENERAL NOTES, ANALYSIS; FP1.1 FIRE PROTECTION FLOOR PLANS; FP2.1 FIRE PROTECTION DETAILS.

FPO.1



WALL LEGEND

	ONE(1)-HOUR FIRE RATED WALL
	TWO(2)-HOUR FIRE RATED WALL

- #### KEYNOTES
- 1 INCOMING 6" FIRE PROTECTION SERVICE BY SITE UTILITIES CONTRACTOR. REFER TO CIVIL/SITE DRAWINGS FOR CONTINUATION AND LOCATIONS OF HYDRANT, FDC, POST INDICATOR VALVE, AND RPDA BACKFLOW PREVENTER TO BE LOCATED AT R.O.W. AT NC HWY. 24
 - 2 DIESEL FIRE PUMP AND ENCLOSURE - REFER TO SHEET FP2.1 FOR FURTHER INFORMATION. COORDINATE LOCATION WITH SITE UTILITY CONTRACTOR PRIOR TO START OF WORK - REFER TO CIVIL/SITE DRAWINGS
 - 3 FIRE PUMP TEST HEADER WITH TWO (2) 2-1/2" BRASS HOSE VALVES - FACE OUT TO NEW CATCH BASIN AT PARKING LOT - REFER TO CIVIL/SITE DRAWINGS
 - 4 INCOMING 6" FIRE PROTECTION SUPPLY MAIN
 - 5 AUTOMATIC WET FIRE PROTECTION SPRINKLER SYSTEM RISER - REFER TO SHEET FP2.1 FOR FURTHER INFORMATION
 - 6 OUT TO FDC
 - 7 OUT TO AUTOMATIC WET FIRE PROTECTION SPRINKLER SYSTEM AND FDC
 - 8 10" ELECTRIC BELL
 - 9 PROVIDE LIGHT HAZARD OCCUPANCY FIRE SPRINKLER PROTECTION FOR THIS AREA. AREA HAS LAY-IN TYPE CEILING AT +10' AFF - SPRINKLER HEADS SHALL BE CONCEALED TYPE PENDENT SPRINKLER HEAD, QUICK-RESPONSE, GLASS BULB, ADJUSTABLE, BRASS FINISH, WITH WHITE COVER PLATE. COORDINATE SHOP DRAWING PRODUCTION CAREFULLY WITH ARCHITECT'S REFLECTED CEILING PLAN AND MECHANICAL AND ELECTRICAL CEILING MOUNTED DEVICES
 - 10 PROVIDE ORDINARY HAZARD GROUP I FIRE SPRINKLER PROTECTION FOR THIS AREA. AREA HAS NO CEILING - SPRINKLER HEADS SHALL BE 200' MIN. UPRIGHT HEADS W/ CAGE GUARDS. MAINS SHALL BE RUN AT +/- +22'-0" AFF (JUST ABOVE BOTTOM CHORD OF STEEL TRUSS) COORDINATE WITH MECHANICAL DUCTING LAYOUT AND PROVIDE SPRINKLER PROTECTION BELOW DUCTING AS REQUIRED BY NFPA 13 - 2018 WHERE NECESSARY BASED ON DUCTING SIZE
 - 11 PROVIDE LIGHT HAZARD OCCUPANCY FIRE SPRINKLER PROTECTION FOR THIS AREA. AREA HAS NO CEILING - SPRINKLER HEADS SHALL BE 200' MIN. UPRIGHT HEADS W/ CAGE GUARDS. MAINS SHALL BE RUN AT +/- +22'-0" AFF (JUST ABOVE BOTTOM CHORD OF STEEL TRUSS) COORDINATE WITH MECHANICAL DUCTING LAYOUT AND PROVIDE SPRINKLER PROTECTION ON EITHER SIDE OF DUCTING AS REQUIRED BY NFPA 13 - 2018 WHERE NECESSARY BASED ON DUCTING SIZE
 - 12 APPROXIMATE LOCATION OF MAIN DRAIN - COORDINATE WITH RISER SETUP AND SHOW IN FIRE PROTECTION SHOP DRAWINGS
 - 13 SEE PLAN DETAIL 02 ON THIS SHEET FOR COVERAGE AT HIGH CEILING OF THIS AREA - PROVIDE COVERAGE FOR ELECTRICAL CLOSET 107
 - 14 REMOTE VISUAL AND AUDIBLE ALARM FOR FIRE PUMP PER NFPA 20 12.4.1.3 - COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER AND CONDUIT AND REFER TO FIRE PUMP SPECIFICATION 21 31 16 FOR FURTHER INFORMATION AND COORDINATION WITH FIRE PUMP
 - 15 DISTANCE FROM BUILDING SHOWN IS SCHEMATIC IN NATURE. REFER TO CIVIL PLANS FOR PLACEMENT ON SITE AND COORDINATE AS REQUIRED.

- #### GENERAL NOTES
1. REFER TO SHEET FP0.1 FOR ABBREVIATIONS, GENERAL PROJECT NOTES, DETAILS AND SCHEDULES.
 2. UNLESS NOTED OTHERWISE, ALL SPRINKLER PIPING SERVING INDIVIDUAL SPRINKLER HEADS SHALL BE 1" SCHEDULE 40 BLACK STEEL.
 3. PROVIDE COMPLETE FIRE SPRINKLER SYSTEM FOR THE ENTIRE AREA PER NFPA 13.
 4. PROVIDE MIN. PITCH OF PIPE REQUIRED TO DRAIN SYSTEM. PITCH PIPE TOWARDS INSPECTOR'S TEST STATION AND/OR MAIN RISER. PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF SYSTEM TO EVACUATE AIR FROM SYSTEM.
 5. FIRE PROTECTION INSTALLATIONS SHALL MEET THE REQUIREMENTS OF NFPA 13, CITY AND STATE REQUIREMENTS.
 6. ALL FIRE PROTECTION PIPING AND EQUIPMENT, AS SHOWN, IS DIAGRAMMATIC WITH APPROXIMATE PIPE LOCATIONS, ELEVATIONS, ROUTING, ETC., AND IS PROVIDED FOR INFORMATIONAL PURPOSES. EVERY FITTING, ELL, TEE AND LENGTH OF PIPE MAY NOT BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE CONTRACT DRAWINGS AND COORDINATE THE FIRE PROTECTION SYSTEM INSTALLATION WITH ALL OTHER BUILDING SYSTEMS. THE FIRE PROTECTION CONTRACTOR SHALL CREATE A FABRICATION DRAWING SHOWING ALL PIPE SIZES, LOCATION, ROUTING, HANGERS & ELEVATIONS THAT ARE A RESULT OF THIS COORDINATION EFFORT. NECESSARY OFFSETS IN PIPING REQUIRED TO PROPERLY INSTALL THE FIRE PROTECTION SYSTEM AS TO TAKE UP MINIMUM SPACE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR WITH NO ADDITIONAL EXPENSE TO THE OWNER.
 7. ALL SPRINKLER HEAD SPECIFICATION INFORMATION IS TYPICAL UNLESS OTHERWISE INDICATED ON THE DRAWINGS AND/OR AS OTHERWISE REQ'D. BY CODE (ORIFICE SIZES, TEMPERATURE CLASSIFICATION, ETC.).
 8. WET SPRINKLER SYSTEM PIPING TO BE BLACK STEEL PIPE, ASTM A 53 SCHEDULE 40 WITH THREADED OR GROOVED JOINTS AS OUTLINED IN THE SPECIFICATIONS.
 9. ALL SPRINKLER SYSTEM PIPING HANGERS AND SUPPORTS SHALL COMPLY WITH NFPA 13 AND INSTALLED ACCORDING TO NFPA 13.
 10. PAINT ALL EXPOSED FIRE PROTECTION SPRINKLER PIPING WITH COLOR CHOSEN BY PROJECT ARCHITECT. REFER TO PROJECT SPECIFICATION 210500-COMMON WORK FIRE-SUPPRESSION.

CONSULTANT

SEAL
025020
STEVE W. CAMPBELL
06/13/2024

Progressive Design Collaborative, Inc.
3101 Popponesset Court, Suite 300
Raleigh, North Carolina 27604
919.793.0909
License# E-0183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

JK F
ARCHITECTURE

625 LYNDALE CL. SUITE E, GREENVILLE, NC 27858 252-355-1048

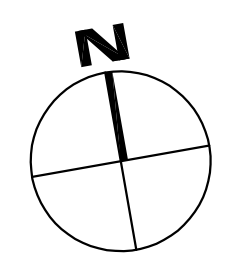
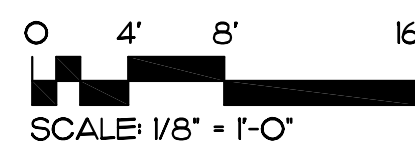
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE	
FIRE PROTECTION FLOOR PLANS	
SCALE	DRAWING NO.
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DRAWN	DJL
CHECKED	SWC
DATE	5-20-2024
PROJECT NO.	2016-20B

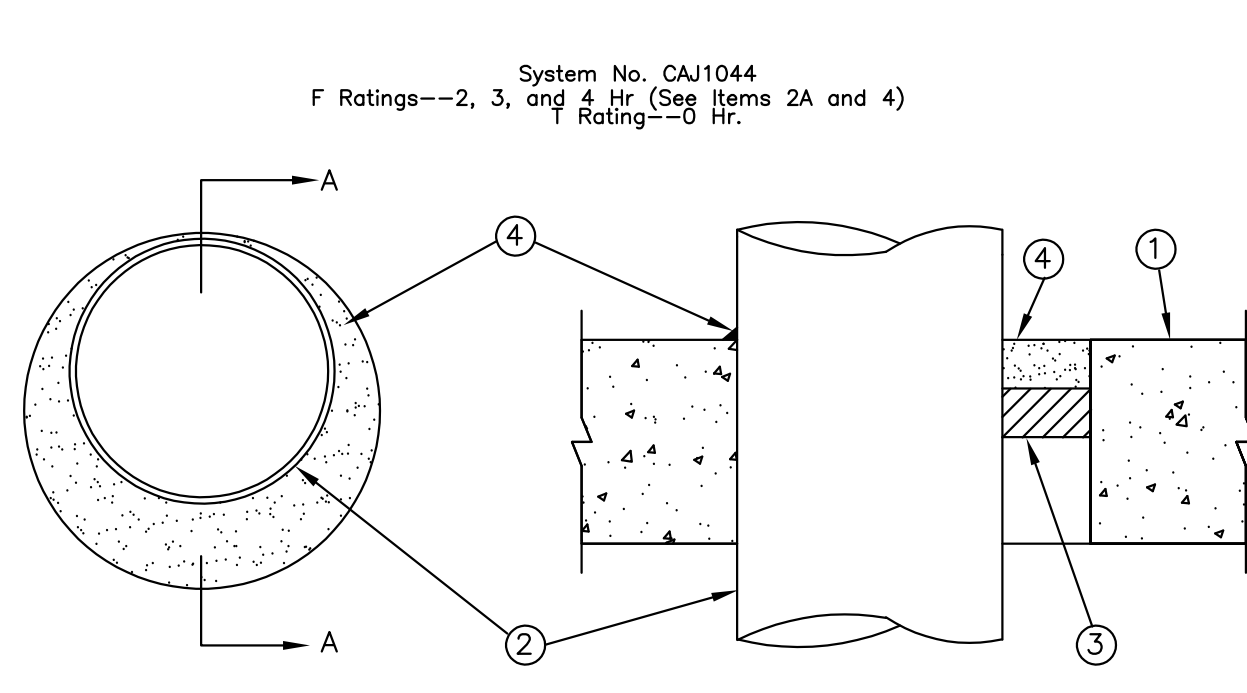
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UPPER MECHANICAL ROOM
FIRE PROTECTION PLAN
1/8" = 1'-0"

FIRST FLOOR
FIRE PROTECTION PLAN
1/8" = 1'-0"



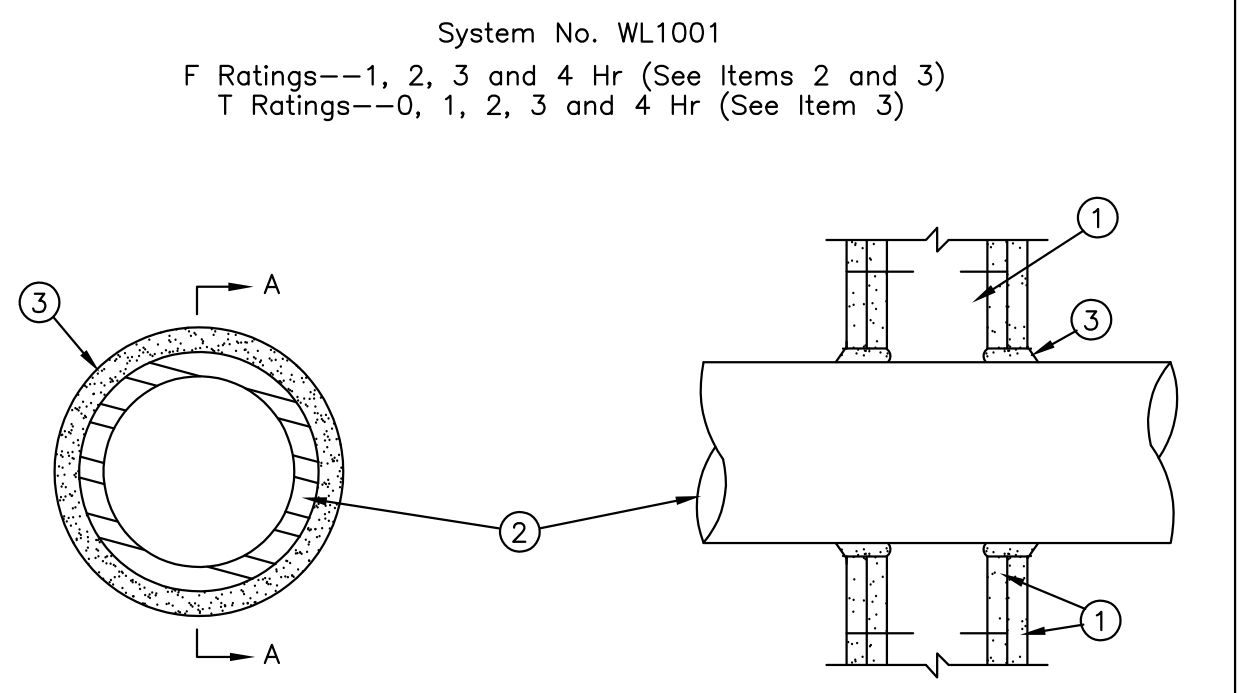
Project #: 24020
 Printed By: djw
 Date: 05/13/2024 @ 7:12 AM
 Sheet: FPI-1



1. Floor or Wall Assembly--Lightweight or normal weight (100-150 pcf) concrete. Except as noted in table under item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. Wall assembly may also be constructed of any UL classified Concrete Block*. Max diam of opening is 32 in. See Concrete Block (CB) category in the Fire Resistance Directory for names of manufacturers.
2. Pipe or Conduit--Nom 30 in. diam (or smaller) cast iron or Schedule 10 (or heavier) steel pipe, nom 6 in. diam (or smaller) steel conduit, nom 3 in. diam (or smaller) Type L (or heavier) copper tube or nom 4 in. diam (or smaller) steel electrical metallic tubing. Max annular space between pipe or conduit and edge of through opening not to exceed 2 in. Min annular space between pipe or conduit and edge of through opening is zero in. (point contact). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly.
3. Packing Material--Polyethylene backer rod or nom 1 in. thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).
4. Fill, Void or Cavity Material--Caulk--Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. The hourly F ratings and the min required caulk thickness are dependent upon a number of parameters, as shown in the following table:

Min Floor Or Wall Thins, in	Nom Pipe Tube Or Conduit Diam, in	Max Annular Space, in	Min Caulk Thins, in	F Rating, Hr
2-1/2	1/2-12	1-3/8	1/2	2
2-1/2	1/2-6	2-3/8	1	2
4-1/2	1/2-6	1-8	1/4(a)	2
4-1/2	1/2-12	1-1/4	1/2	3
4-1/2	1/2-20	2	1	3
5-1/2	2-20	2	1	4
5-1/2	1/2-6	1-3/8	1-3/8	4

(a) Min 2 in. thickness of mineral-wool batt insulation required in annular space.
 (b) Min 1 in. thickness of mineral-wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. thickness of caulk to be installed flush with each surface of floor or wall assembly.
 *Minnesota Mining & Manufacturing Co.--Types CP-25 WB, CP-25 WB +.
 *Bearing the UL Classification Marking



1. Wall Assembly--The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Studs--Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
 - B. Wallboard, Gypsum--Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam or opening is 13-1/2 in.
2. Pipe or Conduit--Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing or Type L (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of firestop system (Item 3) is 2 hr. Steel pipes or conduits larger than nom 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material--Caulk--Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam, in	Annular Space, in	F Rating, Hr	T Rating, Hr
1	0 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1/2	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.
 *Minnesota Mining & Mfg. Co.--Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB +.
 *Bearing the UL Classification Marking

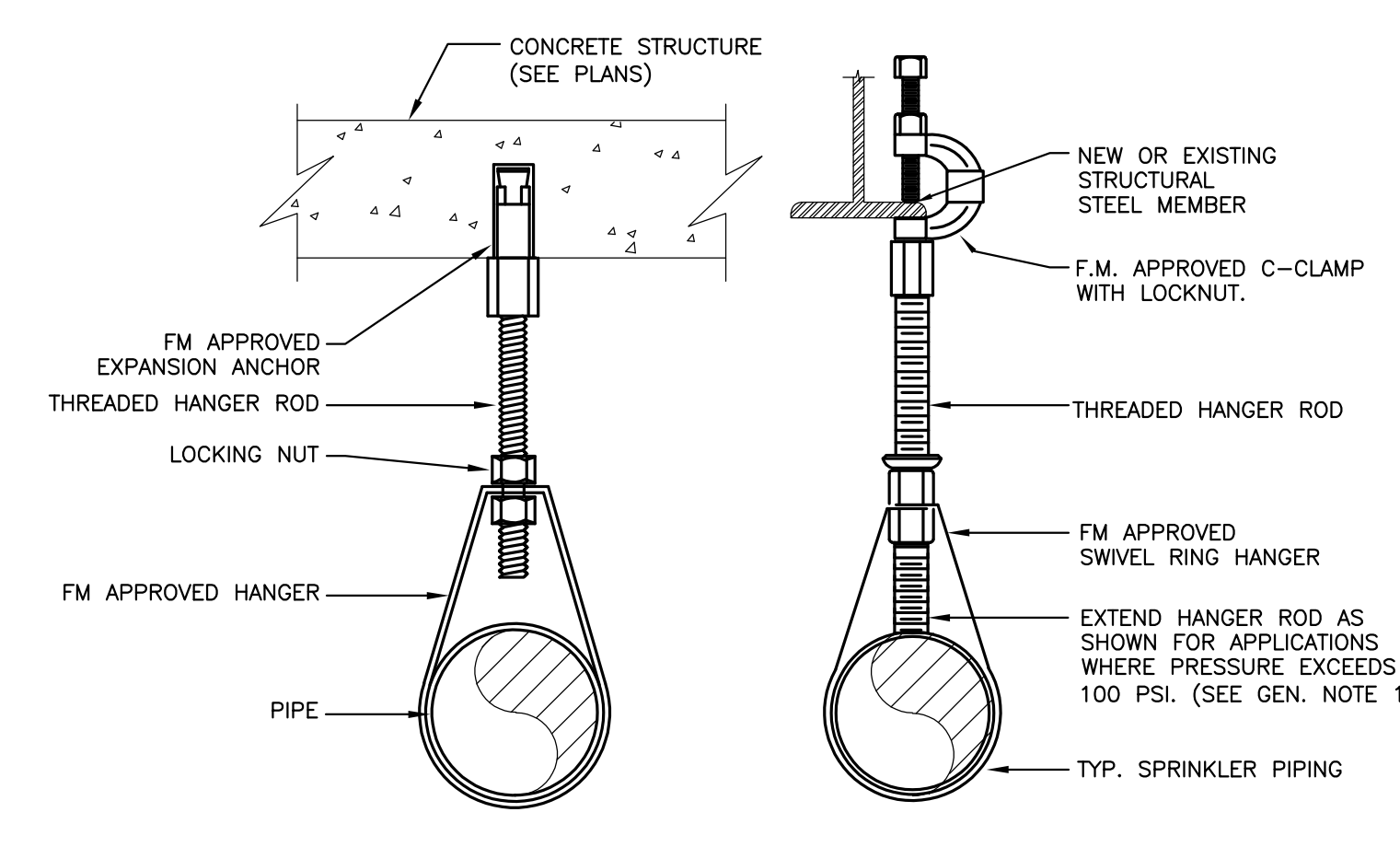
NOTE: PIPE ESCUTCHEON ARE REQUIRED AT EXPOSED PIPING LOCATIONS.

7 FIRE RATED PENETRATION DETAIL
 FP2.1 NOT TO SCALE



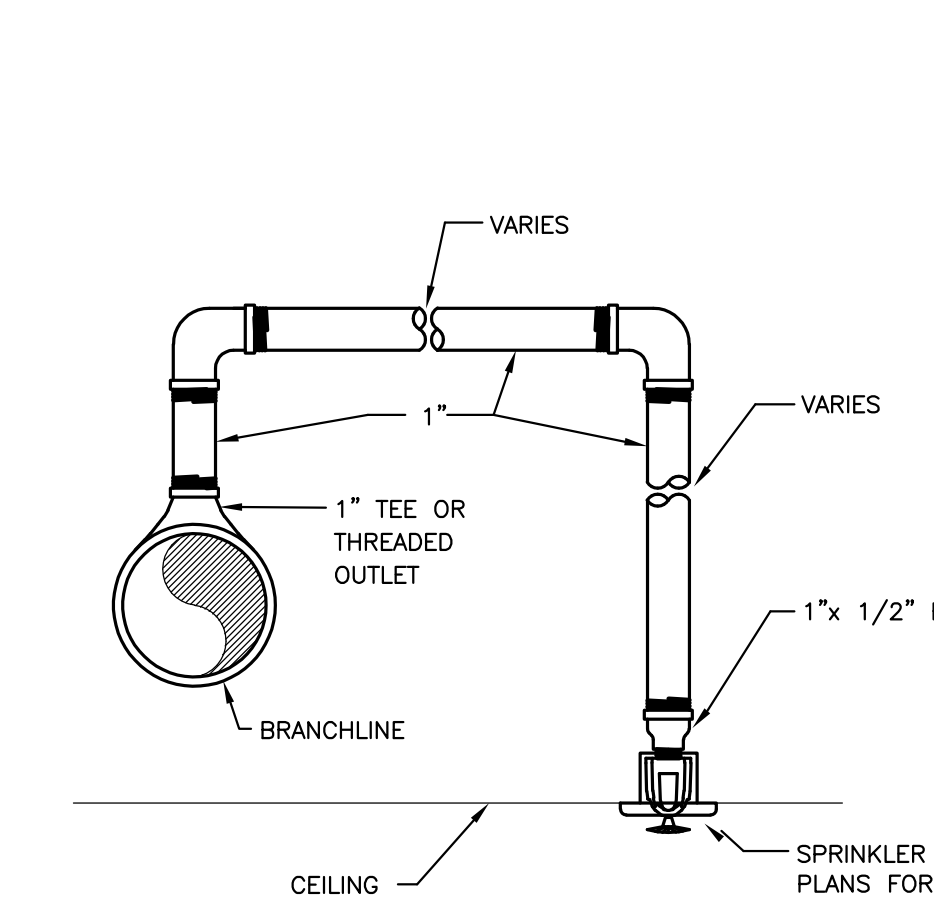
6 DRAIN DETAIL
 FP2.1 NOT TO SCALE

4 RISER CLEARANCES
 FP2.1 NOT TO SCALE



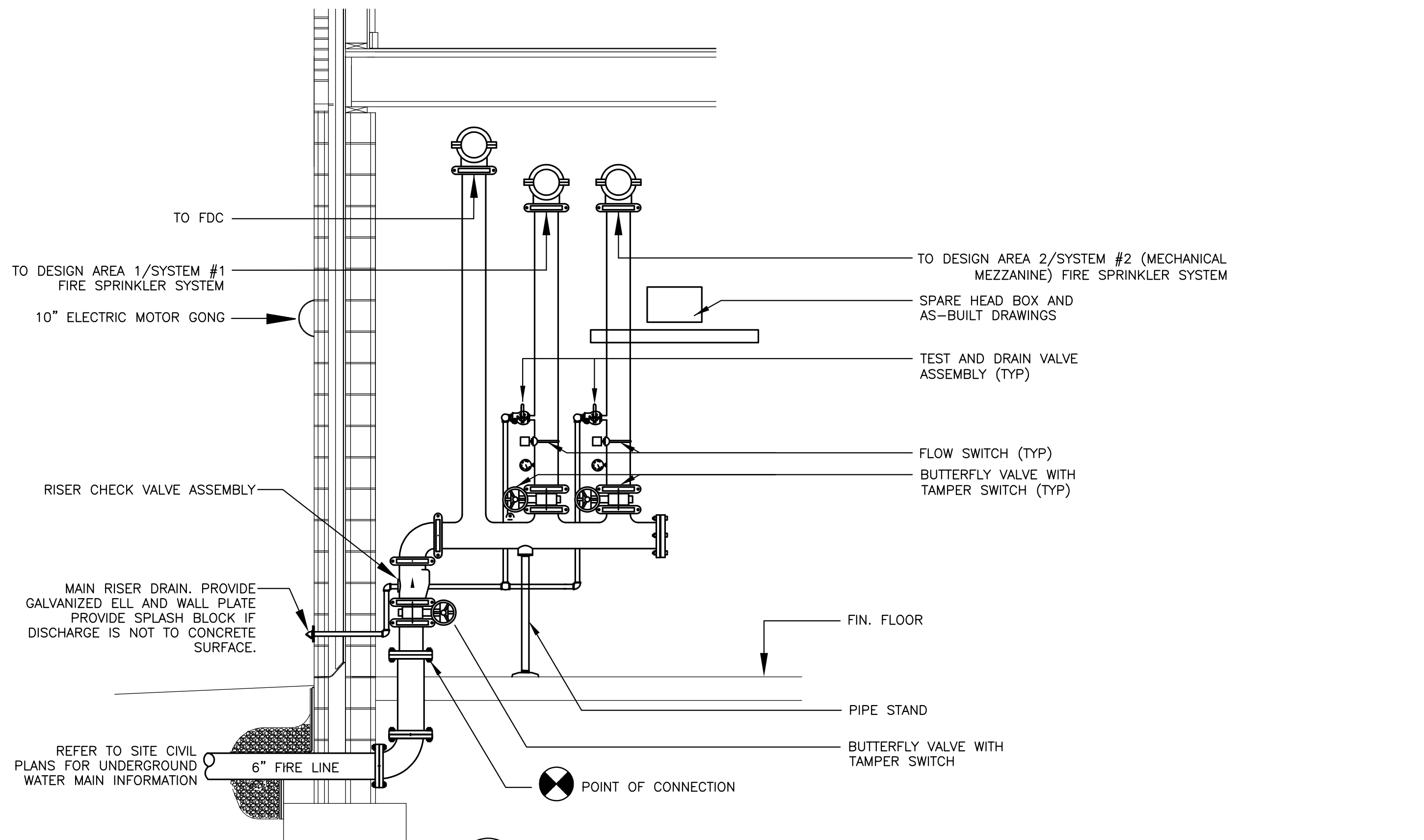
NOTE: 1. THESE METHODS SHALL BE USED WHEN PRESSURE EXCEEDS 100 PSI & SHALL BE INSTALLED WITHIN 12" OF THE LAST SPRINKLER DROP ON EACH SPRINKLER BRANCH LINE; ALL INSTALLATION SHALL COMPLY WITH NFPA 13.

5 TYPICAL SPRINKLER PIPE HANGER DETAIL
 FP2.1 NOT TO SCALE



NOTE: FLEXIBLE SPRINKLER HEAD FITTINGS ALLOWED. REFER TO PROJECT SPECIFICATIONS FOR MORE INFORMATION.

3 TYPICAL SPRINKLER RETURN BEND DETAIL
 FP2.1 NOT TO SCALE

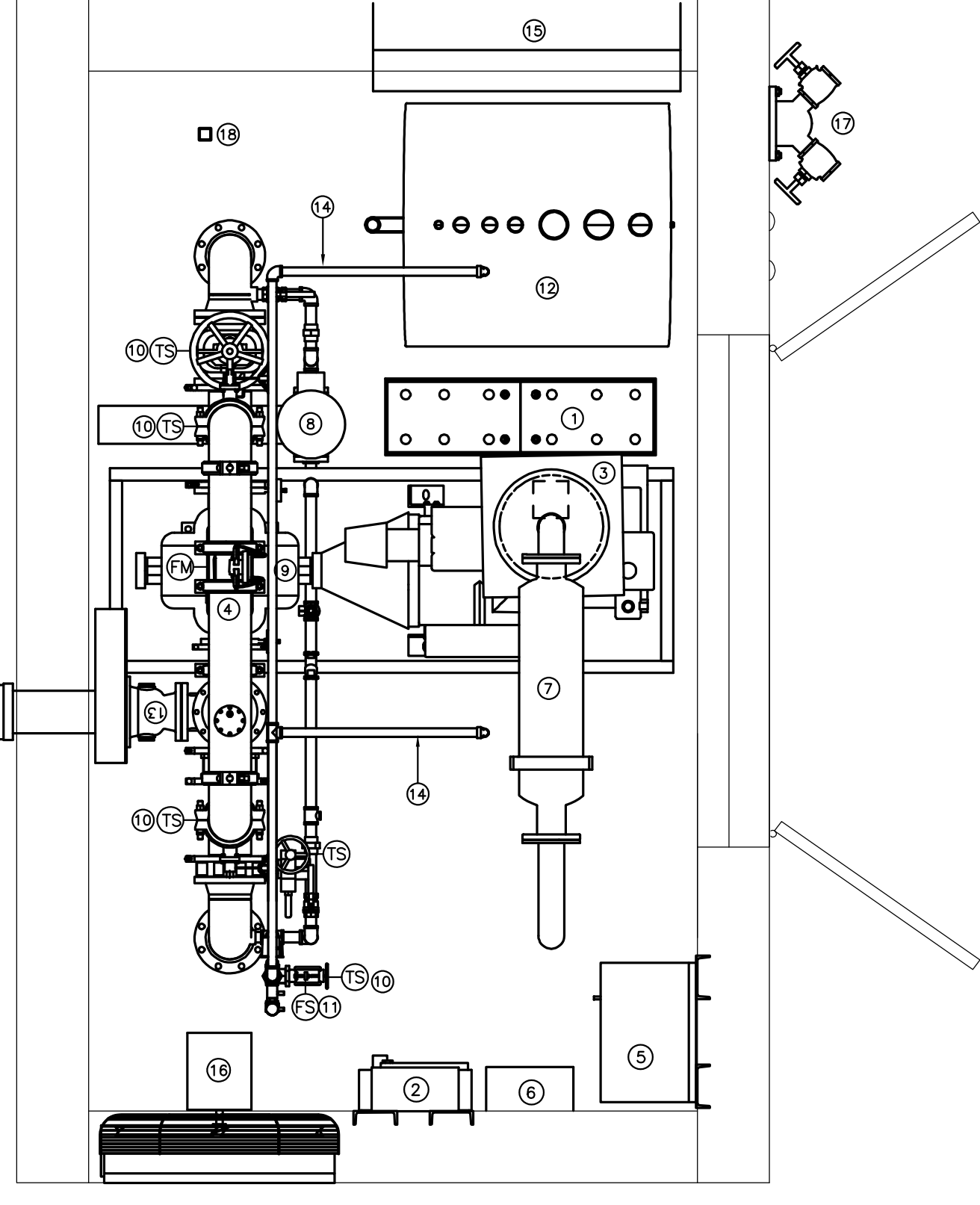


2 FIRE PROTECTION RISER SCHEMATIC
 FP2.1 NOT TO SCALE

NOTE: FIRE PUMP AND ENCLOSURE BASED ON AC FIRE PUMP MANUFACTURER

- PUMP & ENCLOSURE LEGEND**
- 1 BATTERY
 - 2 JOCKEY CONTROLLER
 - 3 DIESEL ENGINE
 - 4 GROOVED FLOWMETER
 - 5 DIESEL CONTROLLER
 - 6 HEATER, W/ THERMOSTAT
 - 7 MUFFLER
 - 8 JOCKEY PUMP
 - 9 DIESEL PUMP
 - 10 TAMPER SWITCH
 - 11 FLOW SWITCH
 - 12 DOUBLE WALL FUEL TANK SIZED PER NFPA
 - 13 WASTE CONE - PIPED ON OUTSIDE OF ENCLOSURE TO PARKING AREA
 - 14 SPRINKLER PIPING
 - 15 FRESH AIR INTAKE
 - 16 AIR EXHAUST
 - 17 FIRE PUMP TEST HEADER WITH TWO (2) 2-1/2" BRASS HOSE VALVES
 - 18 FLOOR DRAIN - RUN DRAIN IN CONCRETE SLAB TO EDGE. DRAIN TO GRADE. ENSURE NOT IN LOCATION AS TO CREATE A NUISANCE. COORDINATE FINAL LOCATION IN FIELD PRIOR TO POURING CONCRETE.
- FIRE PUMP PARAMETERS**
 GPM: 500 @ 50 PSI
 VOLTAGE: 208
 HZ: 60
 PHASE: 3
 2-1/2" TEST VALVES: 2
- PUMP ENCLOSURE INTERFACE CONNECTIONS:**
 A. SUCTION: FLANGED, 6", CLASS 150#.
 B. DISCHARGE: FLANGED, 6", CLASS 150#.
 C. MAIN RELIEF VALVE DISCHARGE: FLANGED, 5", CLASS 150#.
 D. DRAIN: 2" CLASS 150#.
 E. SINGLE POWER POINT CONNECTION: 208V / 3PH / 60 HZ.

- NOTES:**
1. PIPING MUST BE SUPPORTED NEAR ALL INTERFACE CONNECTIONS TO ELIMINATE STRAIN.
 2. ALL PIPING SUPPORTS ARE NOT SHOWN FOR CLARITY PURPOSES.
 3. MINIMUM CLEARANCE TO ANY OBSTRUCTION REQUIRED BY THE NATIONAL ELECTRIC CODE.
 4. CONDUIT AND SMALL PIPING RUNS TO FOLLOW STRUCTURAL MEMBERS, WHERE POSSIBLE, TO AVOID CREATING TRIP HAZARDS.
 5. FIRE PUMP AND ENCLOSURE BASED ON AC FIRE PUMP MANUFACTURER AND SHALL BE NO LARGER OVERALL THAN 10' X 15'.
 6. THE FIRE PROTECTION CONTRACTOR WILL HAVE TO PROVIDE A PAD TO SUPPORT THE FIRE PUMP ENCLOSURE AS OUTLINED IN NFPA 20, 4.2.9 "PACKAGED FIRE PUMP ASSEMBLIES". REFER TO DETAIL 4 ON S1.1 FOR ADDITIONAL REQUIREMENTS.
 7. REFER TO BUILDING PLAN FOR LOCATION OF TEST HEADER ON ENCLOSURE. TEST HEADER MUST BE ACCESSIBLE FOR TESTING WITH 2.5" FIRE HOSES CONNECTED TO TEST VALVES.



1 DIESEL FIRE PUMP IN PACKAGED ENCLOSURE DETAIL
 FP2.1 NOT TO SCALE

GENERAL NOTES

1. REFER TO SHEET FP0.1 FOR ABBREVIATIONS, GENERAL PROJECT NOTES, DETAILS AND SCHEDULES.
2. ALL FIRE PROTECTION DEVICES AS SHOWN, ARE LOCATED IN COORDINATION WITH THE CEILING GRID, LIGHTING, DIFFUSERS, ETC., & DIMENSIONS FOR SAME ARE PROVIDED FOR INFORMATIONAL PURPOSES. ALL DEVICE LOCATIONS SHALL BE FIELD VERIFIED WITH THE ACTUAL INSTALLED CEILING GRID LAYOUT, AND FIELD ADJUSTMENTS MADE ACCORDINGLY. ALL INSTALLATIONS SHALL COMPLY WITH NFPA 13, NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS AND ANY OTHER STATE OR LOCAL AUTHORITY HAVING JURISDICTION.
3. PROVIDE COMPLETE FIRE SPRINKLER SYSTEM FOR THE ENTIRE AREA PER NFPA 13.
4. REFER TO SHEET FP0.1 FOR ALL SPRINKLER HEAD REQUIREMENTS FOR THIS PROJECT.

CONSULTANT

SEAL

Steve W. Campbell
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE # 025020
 06/13/2024

Progressive Design Collaborative, Inc.
 3101 Poplwood Court, Suite 300
 Raleigh, North Carolina 27604
 919-793-0999
 License # C-0183
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

J K F ARCHITECTURE

625 LYNMADDE C.L. SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE
FIRE PROTECTION DETAILS

SCALE
1/8"=1'-0"

DRAWN
DJL

CHECKED
SWC

DATE
5-20-2024

PROJECT NO.
2016-20B

DRAWING NO.
FP2.1

FIXTURE SCHEDULE

MARK	DESCRIPTION	REMARKS
M	SH-1 SHOWER (STANDARD) SYMMONS, MODEL NO. C-96-1-151-X PRESSURE BALANCING ANTI-SCALD VALVE WITH LEVER HANDLE, INTEGRAL SERVICE STOPS, ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, AND UNIVERSAL ADJUSTABLE 2.5 GPM SHOWER HEAD WITH WALL MOUNTING BRACKET, VALVE SHALL BE OF ALL BRONZE AND STAINLESS STEEL WITH ONLY ONE MOVING PART, PROVIDE FD-1	MOUNT SHOWER VALVE 48" A.F.F. AND SHOWER HEAD 74" A.F.F.
L	SH-2 SHOWER (ACCESSIBLE) ROLL-IN/TRANSFER SYMMONS MODEL NO. C-96-500-B30-V-X-1.5 WITH PRESSURE BALANCING ANTI-SCALD VALVE WITH INTEGRAL SERVICE STOPS, LEVER/ROL LEVER DIVERTER VALVE, 1.5 GPM SOLID BRASS ADJUSTABLE SHOWER HEAD WITH ARM AND FLANGE, AND AND WALL/HAND SHOWER WITH 5' FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, AND 30" VERTICAL SLIDE BAR SHOWER VALVE SHALL BE OF ALL BRONZE AND STAINLESS STEEL WITH ONLY ONE MOVING PART, PROVIDE FD-1	
K	WH-1 ELECTRIC WATER HEATER, 66 GALLON A.O. SMITH MODEL NO. DEN-66, 66 GALLON ELECTRIC WATER HEATER. ELEMENTS SHALL BE RATED AT 4500 WATTS, 208/1/Ø, WITH NON-SIMULTANEOUS OPERATION WITH RECOVERY RATE OF 23GPH AT 80° RISE. ELEMENTS SHALL BE CONTROLLED BY A MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUTOFF SWITCH. HEATER SHALL BE SET AT 110°F WATER TEMPERATURE. TANK SHALL BE GLASS LINED, RATED FOR 150 PSI WORKING PRESSURE, AND SHALL HAVE A THREE-YEAR WARRANTY. WATER HEATER SHALL MEET ALL REQUIREMENTS OF CURRENT VERSION OF ASHRAE 90, EFFICIENCY STANDARDS. PROVIDE AMTROL MODEL NO. THERM-X-TROL ST-30V EXPANSION TANK WITH 150 PSI MAXIMUM WORKING PRESSURE AND FACTORY PRE-CHARGED TO 40 PSIG.	
J	BP-1 INLINE DOMESTIC BOOSTER PUMP LITTLE GIANT INLINE 400 BOOSTER PUMP, SINGLE PUMP WITH INLET AND OUTLET ISOLATION VALVES, INLET CHECK VALVE, DISCHARGE MOUNTED 2 GALLON BLADDER TANK, BYPASS LOOP, AND PRESSURE RELIEF VALVE, MOTOR WITH OVERCURRENT PROTECTION, HARDWIRED CONNECTION, NEMA 1 ENCLOSURE, 120/1/Ø, 1/3 HP MOTOR. SYSTEM STARTS ON DROP IN WATER PRESSURE AND STOPS WHEN NO FLOW IS DETECTED WITH A MINIMUM RUN TIMING FUNCTION. PIPE RELIEF TO INDIRECT CONNECTION AT EXISTING MOP RECEPTOR	
H	WC-2 WATER CLOSET (ACCESSIBLE) AMERICAN STANDARD AF WALL MILLENIUM MODEL NO. 2257.101 UNIVERSAL WALL HUNG VITREOUS CHINA ELONGATED WATER CLOSET WITH SIPHON JET ACTION AND 1-1/2" TOP SPUD, PROVIDE BOLT CAPS/BOLTS MODEL NO. 1655SCOT EXTRA HEAVY DUTY SOLID PLASTIC OPEN FRONT ELONGATED SEAT WITH ST STL POSTS, ST STL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING NUTS SLOAN REGAL MODEL 111 - 1.6 GPF EXPOSED MANUAL FLUSHOMETER ZURN MODEL NO. Z1202-N4 VERTICAL OR Z1201-N4 HORIZONTAL CARRIER WITH ALL MOUNTING HARDWARE, FOOT SUPPORTS, ETC. FOR A COMPLETE INSTALLATION WITH VANDAL-PROOF TRIM	17" AFF TO RIM
G	U-1 URINAL, WALL MOUNTED (HANDICAP ACCESSIBLE) SLOAN, WALL HUNG, MODEL WEUS 1000.1001-0.13, 3/4" TOP SPUD, VITREOUS CHINA ELONGATED RIM, URINAL WITH PINT FLUSH VALVE. CARRIER SHALL BE JAY R. SMITH #0636 TO FIT INSTALLATION REQUIREMENTS.	17" AFF TO RIM
F	L-1 COUNTERTOP LAVATORY (STANDARD AND ACCESSIBLE) SLOAN, ENAMELED CAST IRON, COUNTERTOP, MODEL NO. SS-3002, 4" CENTERS, 20" X 17" LAVATORY WITH SYMMONS SCOTT MODEL NO. S-60-H METERING FAUCET WITH 1/2 GPM FLOW RESTRICTOR VANDAL PROOF AERATOR, AND SINGLE LEVER HANDLE INDEXED "H" AND "C" FOR TEMPERATURE SELECTION. PROVIDE MCQUIRE NO. LF170 SUPPLIES WITH ESCUTCHEONS, MCQUIRE NO. 155A DRAIN AND TAILPIECE WITH PERFORATED STRAINER, AND MCQUIRE NO. 8912C P-TRAP. PROVIDE PLUMBEREX HANDY-SHIELD COVERS ON TRAP AND SUPPLIES.	SEE ARCHITECTURE DRAWINGS FOR COUNTER HEIGHT
E	FD-1 FLOOR DRAIN WITH STRAINER JAY R. SMITH MODEL NO. 2005-A-NB, DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE 6" DIAMETER POLISHED NICKEL BRONZE STRAINER.	
E	FD-2 PVC HUB DRAIN FOR AHU CONDENSATE 4 X 2, 4 X 3, OR 6 X 4 SCHED. 40 SOLID WALL PVC REDUCING COUPLING SET AS HUB DRAIN ABOVE FINISH FLOOR - COORDINATE HEIGHT WITH AHU CONDENSATE PIPING IN FIELD - CONFIRM CONDENSATE DRAIN PIPE SIZES AT PLAN TO DETERMINE COUPLING SIZES NEEDED	
D	H-1 FREEZELESS WALL HYDRANT JAY R. SMITH MODEL NO. 5609QT NON-FREEZE HYDRANT WITH VACUUM BREAKER, BRONZE CASING, ALL BRONZE INTERIOR PARTS, POLISHED NICKEL BRONZE FACE, OPERATING KEY, 3/4" HOSE CONNECTION, AND LENGTH TO SUIT WALL CONDITIONS.	MOUNT 24" AFF
D	H-2 HOSE BIBB CHICAGO FAUCETS NO. 293-CP WITH POLISHED CHROME FINISH AND REMOVABLE TEE HANDLE. VACUUM BREAKER CHICAGO FAUCETS NO. E27.	MOUNT 12" AFF
C	H-3 HOSE BIBB - INTERIOR/FACILITIES WOODFORD MODEL NO. 24 HYDRANT/HOSE BIBB, CHROME PATED BRASS, VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, WALL FLANGE, AND OPTIONAL METAL WHEEL HANDLE - MOUNT BALL VALVE SHUTOFF FOR HYDRANTS (H-3) ON EXPOSED PIPING AT 6" AFF IN MECHANICAL/FACILITIES SPACES	MOUNT 12" AFF
B	CO-1 CLEANOUT - FLOOR ZURN MODEL NO. ZN1400-BP WITH NICKEL BRONZE TOP AND BRONZE PLUG, PROVIDE -CM CARPET CLEANOUT MARKER WHERE IN CARPET	
B	CO-2 CLEANOUT - WALL ZURN MODEL NO. Z1441-BP-VP WALL CLEANOUT OR Z1446-BP-VP WALL CLEANOUT TEE TO SUIT APPLICATION, VANDAL PROOF SECURED TOP, SMOOTH ST STL ROUND ACCESS COVER	
A	CO-3 CLEANOUT - EXTERIOR GRADE/PAVING ZURN MODEL NO. Z1448-BP CLEANOUT FERRULE WITH BRONZE PLUG AT GRADE, WHERE IN PAVING PROVIDE WITH ZURN MODEL NO. ZN1474-G-VP HEAVY DUTY CLEANOUT HOUSING WITH INTEGRAL ANCHOR FLANGE, SECURED SCORATED NICKEL BRONZE COVER WITH LIFTING DEVICE AND VANDAL-PROOF SCREW	

GENERAL NOTES

- 45. CLEAN OUT, TEST, AND REPAIR ALL EXISTING WASTE AND VENT, STORM, AND WATER PIPING TO BE REUSED - REPAIR AND/OR REPLACE ALL DAMAGED OR REMOVED INSULATION FOR COMPLETE COVERAGE
- 46. WHERE PIPING CONTAINING GAS IS TO BE REMOVED, OBSERVE PROCEDURE OF NCGFC 406.7.1, NFPA 54 7.2.7 AND 8.3.1 AND NFPA 56(PS) - DISCONNECT THE GAS PIPING FROM THE GAS SOURCE, VENT TO THE OUTDOORS, AND THOROUGHLY PURGE WITH AIR, WATER, OR INERT GAS BEFORE CUTTING OR WELDING
- 47. ANY ITEM REMOVED FROM THE BUILDING DURING DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR DISPOSAL - CARE SHALL BE TAKEN IN THE REMOVAL OF ITEMS TO MINIMIZE DAMAGE - ANY ITEM NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES
- 48. PROVIDE TRAP PRIMER VALVES AS NOTED IN FIXTURE SCHEDULE AND AS NOTED ON PLANS - TRAP PRIMERS SHALL BE INSTALLED AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS - TRAP PRIMER VALVE SHALL BE INSTALLED ON A MINIMUM OF 1/2" SIZE COLD WATER PIPE AND SHALL BE LOCATED AT NEAREST FIXTURE TO DEVICE TO BE PRIMED AND IN A SERVICEABLE LOCATION - TRAP PRIMERS SHALL BE ELIMINATED WHERE BOTH HOSE BIBBS/HYDRANTS ARE PROVIDED AND FLOORS ARE NON-ABSORBENT
- 49. THE SPACE ABOVE THE CEILINGS AND IN THE MECHANICAL ROOMS ARE RETURN AIR PLENUMS - ALL MATERIALS IN PLENUM SPACES MUST BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84E
- 50. ALL PLUMBING SYSTEMS SHALL BE INSTALLED IN SUCH A MANNER AS TO COMPLETELY PREVENT THE POSSIBILITY OF CROSS CONNECTIONS BETWEEN SAFE AND UNSAFE SUPPLIES OR BACK SIPHONAGE.

FIXTURE SCHEDULE

MARK	DESCRIPTION	REMARKS
WC-1	WATER CLOSET (STANDARD) AMERICAN STANDARD AFWALL MILLENIUM MODEL NO. 2257.101 UNIVERSAL WALL HUNG VITREOUS CHINA ELONGATED WATER CLOSET WITH SIPHON JET ACTION AND 1-1/2" TOP SPUD, PROVIDE BOLT CAPS/BOLTS MODEL NO. 1655SCOT EXTRA HEAVY DUTY SOLID PLASTIC OPEN FRONT ELONGATED SEAT WITH ST STL POSTS, ST STL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING NUTS SLOAN REGAL MODEL 111 - 1.6 GPF EXPOSED MANUAL FLUSHOMETER ZURN MODEL NO. Z1202-N4 VERTICAL OR Z1201-N4 HORIZONTAL CARRIER WITH ALL MOUNTING HARDWARE, FOOT SUPPORTS, ETC. FOR A COMPLETE INSTALLATION WITH VANDAL-PROOF TRIM	15" AFF TO RIM
WC-2	WATER CLOSET (ACCESSIBLE) AMERICAN STANDARD AFWALL MILLENIUM MODEL NO. 2257.101 UNIVERSAL WALL HUNG VITREOUS CHINA ELONGATED WATER CLOSET WITH SIPHON JET ACTION AND 1-1/2" TOP SPUD, PROVIDE BOLT CAPS/BOLTS MODEL NO. 1655SCOT EXTRA HEAVY DUTY SOLID PLASTIC OPEN FRONT ELONGATED SEAT WITH ST STL POSTS, ST STL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING NUTS SLOAN REGAL MODEL 111 - 1.6 GPF EXPOSED MANUAL FLUSHOMETER ZURN MODEL NO. Z1202-N4 VERTICAL OR Z1201-N4 HORIZONTAL CARRIER WITH ALL MOUNTING HARDWARE, FOOT SUPPORTS, ETC. FOR A COMPLETE INSTALLATION WITH VANDAL-PROOF TRIM	17" AFF TO RIM
U-1	URINAL, WALL MOUNTED (HANDICAP ACCESSIBLE) SLOAN, WALL HUNG, MODEL WEUS 1000.1001-0.13, 3/4" TOP SPUD, VITREOUS CHINA ELONGATED RIM, URINAL WITH PINT FLUSH VALVE. CARRIER SHALL BE JAY R. SMITH #0636 TO FIT INSTALLATION REQUIREMENTS.	17" AFF TO RIM
L-1	COUNTERTOP LAVATORY (STANDARD AND ACCESSIBLE) SLOAN, ENAMELED CAST IRON, COUNTERTOP, MODEL NO. SS-3002, 4" CENTERS, 20" X 17" LAVATORY WITH SYMMONS SCOTT MODEL NO. S-60-H METERING FAUCET WITH 1/2 GPM FLOW RESTRICTOR VANDAL PROOF AERATOR, AND SINGLE LEVER HANDLE INDEXED "H" AND "C" FOR TEMPERATURE SELECTION. PROVIDE MCQUIRE NO. LF170 SUPPLIES WITH ESCUTCHEONS, MCQUIRE NO. 155A DRAIN AND TAILPIECE WITH PERFORATED STRAINER, AND MCQUIRE NO. 8912C P-TRAP. PROVIDE PLUMBEREX HANDY-SHIELD COVERS ON TRAP AND SUPPLIES.	SEE ARCHITECTURE DRAWINGS FOR COUNTER HEIGHT
FD-1	FLOOR DRAIN WITH STRAINER JAY R. SMITH MODEL NO. 2005-A-NB, DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE 6" DIAMETER POLISHED NICKEL BRONZE STRAINER.	
FD-2	PVC HUB DRAIN FOR AHU CONDENSATE 4 X 2, 4 X 3, OR 6 X 4 SCHED. 40 SOLID WALL PVC REDUCING COUPLING SET AS HUB DRAIN ABOVE FINISH FLOOR - COORDINATE HEIGHT WITH AHU CONDENSATE PIPING IN FIELD - CONFIRM CONDENSATE DRAIN PIPE SIZES AT PLAN TO DETERMINE COUPLING SIZES NEEDED	
H-1	FREEZELESS WALL HYDRANT JAY R. SMITH MODEL NO. 5609QT NON-FREEZE HYDRANT WITH VACUUM BREAKER, BRONZE CASING, ALL BRONZE INTERIOR PARTS, POLISHED NICKEL BRONZE FACE, OPERATING KEY, 3/4" HOSE CONNECTION, AND LENGTH TO SUIT WALL CONDITIONS.	MOUNT 24" AFF
H-2	HOSE BIBB CHICAGO FAUCETS NO. 293-CP WITH POLISHED CHROME FINISH AND REMOVABLE TEE HANDLE. VACUUM BREAKER CHICAGO FAUCETS NO. E27.	MOUNT 12" AFF
H-3	HOSE BIBB - INTERIOR/FACILITIES WOODFORD MODEL NO. 24 HYDRANT/HOSE BIBB, CHROME PATED BRASS, VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, WALL FLANGE, AND OPTIONAL METAL WHEEL HANDLE - MOUNT BALL VALVE SHUTOFF FOR HYDRANTS (H-3) ON EXPOSED PIPING AT 6" AFF IN MECHANICAL/FACILITIES SPACES	MOUNT 12" AFF
CO-1	CLEANOUT - FLOOR ZURN MODEL NO. ZN1400-BP WITH NICKEL BRONZE TOP AND BRONZE PLUG, PROVIDE -CM CARPET CLEANOUT MARKER WHERE IN CARPET	
CO-2	CLEANOUT - WALL ZURN MODEL NO. Z1441-BP-VP WALL CLEANOUT OR Z1446-BP-VP WALL CLEANOUT TEE TO SUIT APPLICATION, VANDAL PROOF SECURED TOP, SMOOTH ST STL ROUND ACCESS COVER	
CO-3	CLEANOUT - EXTERIOR GRADE/PAVING ZURN MODEL NO. Z1448-BP CLEANOUT FERRULE WITH BRONZE PLUG AT GRADE, WHERE IN PAVING PROVIDE WITH ZURN MODEL NO. ZN1474-G-VP HEAVY DUTY CLEANOUT HOUSING WITH INTEGRAL ANCHOR FLANGE, SECURED SCORATED NICKEL BRONZE COVER WITH LIFTING DEVICE AND VANDAL-PROOF SCREW	

GENERAL NOTES

- 1. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY ALL - IN THE CASE OF CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY OF WORK
- 2. BE RESPONSIBLE FOR ALL PERMITS, FEES, AND COSTS ASSOCIATED WITH THE INSTALLATION OF PLUMBING WORK
- 3. MAKE A COMPLETE REVIEW OF THE PLUMBING PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE PLUMBING SYSTEM, AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER
- 4. VISIT THE PROJECT SITE PRIOR TO BIDDING AND BE FAMILIAR WITH THE EXISTING CONDITIONS
- 5. REFER TO THE ARCHITECTURAL PLANS FOR ALL FLOOR PLAN DIMENSIONS - DO NOT SCALE THESE PLANS
- 6. ENSURE THAT ITEMS TO BE FURNISHED UNDER THIS CONTRACT WILL FIT THE SPACE AVAILABLE - MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SERVICE CLEARANCE REQUIREMENTS, AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS
- 7. COORDINATE WITH ALL PRIME AND/OR SUBCONTRACTORS THE INSTALLATION OF FIXTURES AND EQUIPMENT UNDER THIS CONTRACT, PRIOR TO THE INSTALLATION, IN ORDER TO AVOID CONFLICT WITH OTHER TRADES - IF AN ALTERNATE METHOD OF INSTALLATION IS REQUIRED, IT SHALL BE COORDINATED WITH THE ENGINEER OR ARCHITECT PRIOR TO START OF WORK
- 8. PROVIDE AND INSTALL ALL PLUMBING SUPPORT DEVICES - ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER PRIME CONTRACTORS AND/OR SUBCONTRACTORS PRIOR TO INSTALLATION
- 9. PROVIDE ALL OPENINGS IN WALLS AND FLOORS UNLESS NOTED OTHERWISE - VERIFY LOCATION AND SIZE OF ALL OPENINGS REQUIRED UNDER THIS CONTRACT WITH THE GENERAL CONTRACTOR
- 10. PROVIDE ALL ACCESS DOORS AS REQUIRED FOR CODE COMPLIANCE AND TO ACCESS ANY INSTALLATION THAT WILL REQUIRE FUTURE MAINTENANCE - THESE DOORS SHALL BE 20" x 20" UNLESS NOTED OTHERWISE - EACH ROOM WITH A DRYWALL CEILING SHALL HAVE A MINIMUM OF ONE ACCESS DOOR PROVIDED BY THE PLUMBING CONTRACTOR - THE DRYWALL SUBCONTRACTOR SHALL PROVIDE THE REQUIRED FRAMED OPENING AND INSTALL THE ACCESS DOORS
- 11. SEAL ALL PENETRATIONS OF FIRE RATED WALLS USING THE UL METHODS DETAILED IN THESE DRAWINGS
- 12. INSTALL INSULATED WATER PIPING IN EXTERIOR WALLS ON THE INTERIOR SIDE OF THE WALL INSULATION - SEE SPECIFICATIONS FOR SIZE AND TYPE INSULATION TO BE USED
- 13. THE USE OF FLEXIBLE RUBBER COUPLINGS IS PROHIBITED - REFER TO PROJECT SPECIFICATIONS FOR ACCEPTABLE TYPE 304 STAINLESS STEEL JACKETED CLAMPS
- 14. INSTALL FLOOR DRAIN STRAINERS AND CLEANOUT TOPS FLUSH WITH THE FINISHED FLOOR ELEVATION - A RAISED OR LOWERED STRAINER OR CLEANOUT TOP WILL NOT BE ACCEPTABLE
- 15. INSTALL ALL THREADED CLEANOUT PLUGS WITH PIPE DOPE TO ALLOW FOR EASY REMOVAL IN THE FUTURE
- 16. PLUMBING FIXTURES SHALL BE NEATLY CAULKED WITH SILICONE CAULKING COMPOUND WHERE THE FIXTURE MEETS THE WALL, COUNTERTOP, OR FLOOR UNLESS OTHERWISE NOTED
- 17. PROVIDE CHROME ESCUTCHEON RINGS AT CEILING AND WALL PIPE PENETRATIONS AT ALL EXPOSED TO VIEW PIPING
- 18. WHERE VALVES ON WATER LINES ARE LOCATED ABOVE CEILING, LOCATE THEM 8" ABOVE EXPOSED
- 19. IN ADDITION TO THE LOCATIONS REQUIRED IN THESE DRAWINGS, LEAD-FREE, TWO-PIECE, FULL-PORT BRONZE BALL VALVES/SHUTOFFS SHALL BE PROVIDED AS REQUIRED BY THE LATEST CURRENT VERSION OF THE NC PLUMBING CODE SECTION 606
- 20. PROVIDE BALL VALVE IN BRANCH PIPING TO ALL EXTERIOR HOSE BIBBS
- 21. COORDINATE EXACT FLOOR DRAIN LOCATIONS IN THE MECHANICAL ROOMS WITH THE MECHANICAL CONTRACTOR FOR THE TYPE OF MECHANICAL EQUIPMENT TO BE INSTALLED
- 22. INSTALL HANGER RODS BEFORE GYPSUM BOARD CEILINGS ARE INSTALLED AND COMPLETE PIPING INSTALLATION AFTER THE CEILING HAS BEEN FINISHED
- 23. COORDINATE WITH MECHANICAL AND CONTROLS CONTRACTORS FOR DEVICES TO BE CONNECTED TO THE BAS/BMS
- 24. THE FLASHING AND COUNTER-FLASHING FOR ALL VENTS THROUGH THE ROOF SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR - THE PLUMBING CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF THE VENTS THROUGH THE ROOF WITH THE ROOFING SUB-CONTRACTOR - ALL VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10'-0" FROM ALL MECHANICAL FRESH AIR INTAKE GRILL OR DUCT OPENING OR A MINIMUM OF 2'-0" ABOVE THE TOP OF SUCH OPENINGS -
- 25. EACH ABOVE GROUND SECTION OF GAS PIPING SHALL BE ELECTRICALLY BONDED PER NC FUEL GAS CODE SECTION 310
- 26. CONTRACTOR SHALL TEST PRESSURE BEFORE START OF WORK, IF EXISTING CITY WATER PRESSURE EXCEEDS 80 PSI, A WATER PRESSURE REDUCING VALVE SHALL BE PROVIDED - INSTALL IMMEDIATELY DOWNSTREAM OF, AND IN THE SAME ROOM AS, THE DOMESTIC WATER RISER AND MAIN SHUTOFF VALVE AND SET AT 60 PSI
- 27. PROVIDE FINAL CONNECTIONS AND ALL NECESSARY PIPE AND FITTINGS TO ALL GAS FIRED EQUIPMENT UNLESS NOTED OTHERWISE
- 28. PROVIDE ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT - REFER TO THE ELECTRICAL PLANS FOR LOCATIONS OF JUNCTION BOXES, DISCONNECTS, PANELS, AND CIRCUIT BREAKERS - TYPE, SIZE, AND NUMBER OF CONDUCTORS AND CONDUITS TO EQUIPMENT SHALL BE EQUAL TO THE CONDUCTORS AND CONDUITS PROVIDED BY THE ELECTRICAL CONTRACTOR TO THE JUNCTION BOXES AND DISCONNECT SWITCHES - CONNECTIONS SHALL CONFORM TO THE LATEST CURRENT VERSION OF THE NATIONAL ELECTRICAL CODE REGULATIONS
- 29. ALL MOTOR STARTERS, SWITCHES, CONTROL DEVICES, ETC. SHALL BE RECESSED IN THE WALLS, EXCEPT WHERE THESE ITEMS ARE LOCATED IN THE MECHANICAL ROOMS
- 30. PROVIDE NAMEPLATES FOR ALL EQUIPMENT, SWITCHES, CONTROL DEVICES, ETC.
- 31. WATER HEATER INSTALLATIONS SHALL COMPLY WITH THE LATEST CURRENT VERSION OF THE NATIONAL ELECTRICAL CODE
- 32. FIELD LOCATE ALL UNDERGROUND UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THESE PLANS PRIOR TO THE START OF WORK - AVOID CONFLICTING WITH THESE UTILITIES DURING THE INSTALLATION OF THE WORK AND REPAIR ANY DAMAGE TO THESE UTILITIES AT NO ADDITIONAL COSTS TO THE PROJECT
- 33. UNDERGROUND WATER PIPING SHALL BE INSTALLED A MINIMUM OF 30" BELOW FINISHED GRADE TO PIPE CROWN
- 34. UNDERGROUND PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE PIPING AT 6 TO 8 INCHES BELOW FINISH GRADE - LINE MARKING TAPE SHALL CONFORM TO ANSI/ASTM 13.1 AND SHALL BE 6" WIDE, 7.0 MILS MINIMUM THICKNESS, NON-DISTORTING, COLORFAST, ULTRAVIOLET LIGHT FAST, NON-STRETCH, 600 POUND TENSILE STRENGTH PER 6" WIDTH, AND MESSAGE MUST REPEAT WITHIN A MAXIMUM OF 40 INCHES - THE PRINTED LEGEND SHALL BE INDICATIVE OF THE TYPE OF UNDERGROUND LINE THAT IT IS MARKING
- 35. UNDERGROUND GAS PIPING SHALL HAVE INSULATED COPPER TRACER WIRE, MINIMUM 18 AWG WITH INSULATION SUITABLE FOR DIRECT BURIAL AND ENDS SHALL TERMINATE ABOVE GRADE
- 36. PAINT AND COLOR CODE ALL EXPOSED PIPING IN MECHANICAL ROOMS - ABOVE CEILING PIPING SHALL HAVE FLOW ARROWS AND LABELS LOCATED AT 10 FOOT INTERVALS, AT ALL TURNS, AND AT BOTH SIDES COLD WATER = GREEN
HOT WATER = LIGHT RED
GAS = YELLOW
NON-POTABLE WATER = PURPLE
- 37. PROVIDE A PHENOLIC SIGN AT ALL NON-POTABLE WATER OUTLETS STATING "NON-POTABLE - NOT SAFE FOR DRINKING" IN LETTERS 1/2" HIGH
- 38. ALL GUTTERS, DOWNSPOUTS, AND STORM WATER PIPING SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
- 39. EXISTING PIPING LOCATIONS AND CONNECTIONS HAVE BEEN PRODUCED FROM BEST AVAILABLE INFORMATION - VERIFY THESE LOCATIONS IN THE FIELD - SHOULD A DIFFERENT METHOD OF PIPING BE REQUIRED THAN THAT SHOWN ON THESE PLANS, NOTIFY ENGINEER AND COORDINATE WITH ENGINEER THE PROPOSED CONFIGURATION
- 40. COORDINATE ALL SHUT-DOWN TIMES OF THE EXISTING WATER AND WASTE PIPING WITH THE OWNER PRIOR TO THE INSTALLATION OF ANY NEW PIPING
- 41. PROVIDE THE CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, CEILINGS, AND ROOFING WHERE NEW FIXTURES ARE ADDED OR EXISTING FIXTURES ARE REMOVED - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES
- 42. ALL EXISTING SOIL, WASTE, STORM, WATER, AND GAS PIPING THAT IS TO BE REMOVED SHALL BE REMOVED AS FAR AS POSSIBLE WITHIN THE SCOPE OF THE PROJECT - WHERE REQUIRED, REMAINING EXISTING PIPING SHALL BE CAPPED WATER AND GAS TIGHT AT ACTIVE MAINS BELOW THE SLAB, FLOOR, OR GRADE, OR WITHIN THE WALLS OR CEILING UNLESS NOTED OTHERWISE
- 43. COORDINATE CAPPING OF EXISTING PIPING WITH OTHER TRADES SO THAT CAPPING DOES NOT CONFLICT WITH PROPER INSTALLATION AND FUNCTION OF THE COMPLETED SCOPE OF THE NEW WORK
- 44. EXISTING SOIL, WASTE, STORM OR VENT PIPING THAT IS TO BE REMOVED SHALL BE REMOVED SUCH THAT DEAD ENDS ARE NOT CREATED - ANY PORTION OF CAPPED SOIL, WASTE, STORM OR VENT PIPING AT A DEVELOPED LENGTH OF 2' OR MORE FROM A MAIN OR CONNECTED FUNCTIONING BRANCH SHALL BE CONSIDERED A DEAD END

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	WASTE PIPING
	CONDENSATE DRAIN PIPING
	VENT PIPING
	COLD WATER PIPING
	110°F HOT WATER PIPING
	2 PSI NATURAL GAS PIPING
	EXISTING COLD WATER PIPING
	BALL VALVE
	GATE VALVE
	CHECK VALVE
	GAS COCK
	ELECTRIC SOLENOID VALVE
	UNION
	BUTTERFLY VALVE
	CIRCUIT SETTER/BALANCING VALVE
	HYDRANT
	PIPE TURNS UP
	PIPE TURNS DOWN
	CLEANOUT AT WALL OR IN CEILING
	CLEANOUT AT FINISHED FLOOR/FINISHED GRADE
	WATER HAMMER ARRESTOR WITH PDI SIZE (REFER TO WATER HAMMER SCHEDULE)
	HOT WATER RECIRCULATION PUMP
	POINT OF CONNECTION
	ENDPOINT OF DEMOLITION
	VENT THROUGH ROOF
	FINISH FLOOR ELEVATION
	BELOW FINISH FLOOR
	ABOVE FINISH FLOOR
	ABOVE FINISH GRADE
	INVERT OF PIPING
	VERIFY IN FIELD
	CENTERLINE
	RIGHT OF WAY
	EXISTING
	NEW
	STAINLESS STEEL
	UNLESS OTHERWISE NOTED / UNLESS NOTED OTHERWISE

LOAD SUMMARY

WASTE DEMAND IN FIXTURE UNITS	WATER DEMAND IN FIXTURE UNITS	WATER DEMAND IN G.P.M.	NAT GAS DEMAND IN BTU PER HOUR
22	83	36.5	400,000

CONNECTION SCHEDULE

	WASTE	COLD WATER	HOT WATER
WATER CLOSET (FLUSH VALVE)	4"	1"	-
URINAL (FLUSH VALVE)	2"	3/4"	-
LAVATORY	2"	1/2"	1/2"
HYDRANT/HOSE BIBB	-	3/4"	-
SHOWER	3"	1/2"	1/2"

WATER HAMMER ARRESTORS

PDI DESIGNATION	JAY R. SMITH 5000 SERIES HYDROTROL	ZURN Z-1700 SERIES SHOKTROL	WADE SHOKSTOPPS	MAX FU
A	#5005	#100	#W-5	11
B	#5010	#200	#W-10	32
C	#5020	#300	#W-20	60
D	#5030	#400	#W-50	113
E	#5040	#500	#W-75	154
F	#5050	#600	#W-100	330

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KEY PLAN

SCOID #17-16813-01C: NCCCS #2163

NO	REVISION	DATE
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J K F ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27658 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

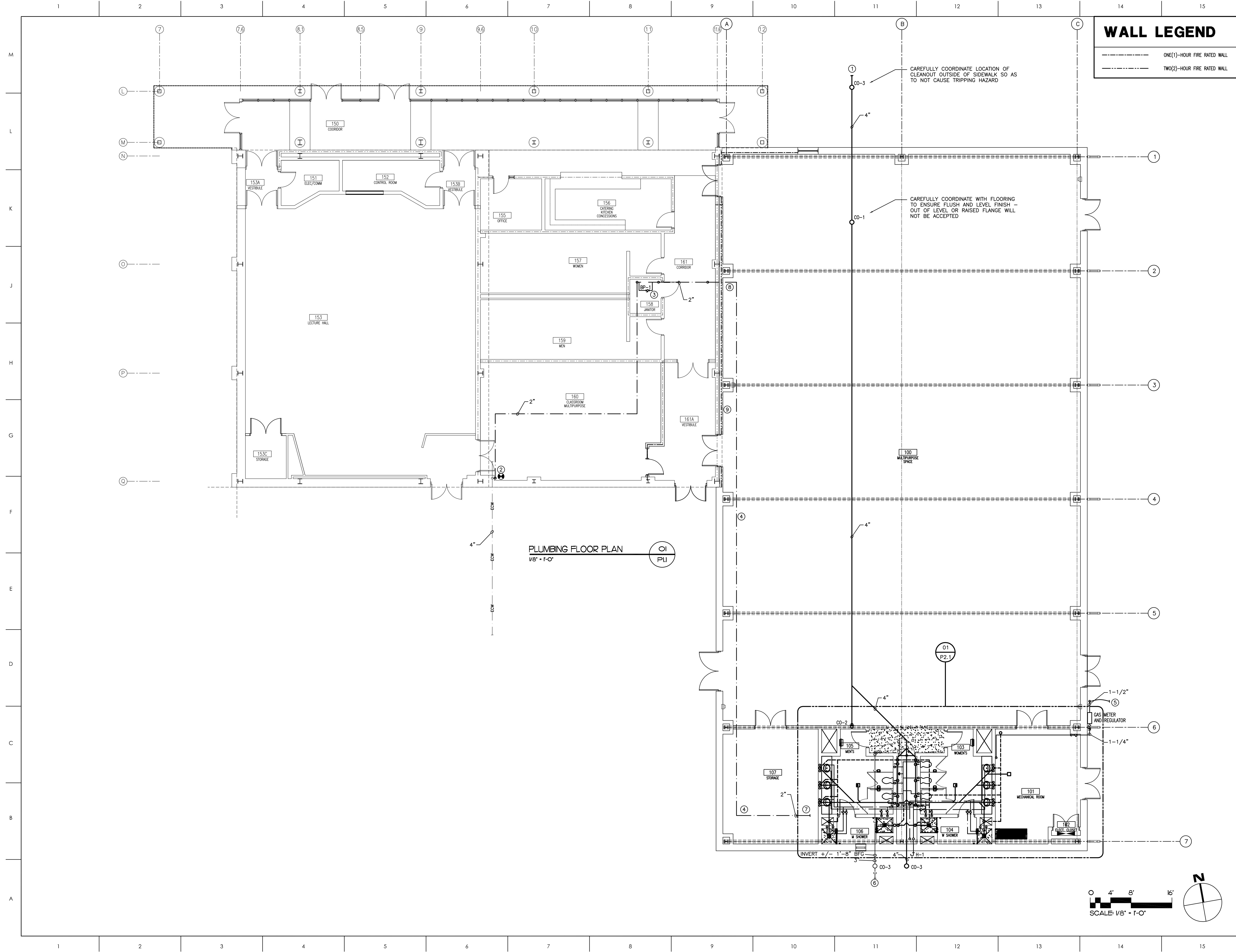
DRAWING TITLE: PLUMBING NOTES, SYMBOLS, AND LEGEND

DRAWING NO: 1/8"-1/8"

CHECKED: DJL

DATE: 5-20-2024

PROJECT NO: 2016-20B



WALL LEGEND

	ONE(1)-HOUR FIRE RATED WALL
	TWO(2)-HOUR FIRE RATED WALL

- GENERAL NOTES:**
- CAREFULLY COORDINATE ALL LOCATIONS OF UTILITIES ENTERING NEW BUILDING AND ROUTED THROUGH EXISTING BUILDING WITH OTHER TRADES AND GENERAL CONTRACTOR BEFORE START OF WORK
- NOTES:(AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)**
- PROVIDE MATERIALS FOR CONNECTION TO SANITARY SEWER BY SITE UTILITY CONTRACTOR
 - PROVIDE MATERIALS FOR CONNECTION OF NEW 2" CW SUPPLY TO EXISTING 2-1/2" TEE IN VERTICAL ON EXISTING 4" DOMESTIC WATER RISER, PROVIDE BALL VALVE SHUTOFF AND ROUTE PIPING ABOVE CEILING TO JANITOR'S CLOSET
 - LOCATE BOOSTER PUMP IN EASILY ACCESSIBLE LOCATION IN JANITOR'S CLOSET
 - ROUTE NEW CW SUPPLY PIPING UP HIGH ABOVE BOTTOM CORD OF TRUSS IN MULTIPURPOSE SPACE
 - 1 1/2" INCOMING GAS, PRESSURE REGULATOR, AND METER BY GAS COMPANY, PROVIDE 2 PSI NATURAL GAS SERVICE AND 400,000 BTUH ON BUILDING SIDE. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY.
 - PROVIDE MATERIALS FOR CONNECTION TO STORM SEWER BY SITE UTILITY CONTRACTOR
 - SEE SHEET P1.2 FOR CONTINUATION
 - SEE SHEET P4.2 FOR DOUBLE FIRE WALL PENETRATION DETAIL
 - REMOVE EXISTING EXTERIOR HOSE BIBB AND CAP EXISTING CW SUPPLY PIPING ABOVE CEILING

PLUMBING FLOOR PLAN
1/8" = 1'-0"

CONSULTANT

SEAL

PROFESSIONAL ENGINEER

SEAL 025020

STEVE W. CAMPBELL

06/13/2024

Progressive Design Collaborative, Ltd.

3101 Poplarwood Court, Suite 300
Raleigh, North Carolina 27604
919-793-0969
License# C-01183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

JKF

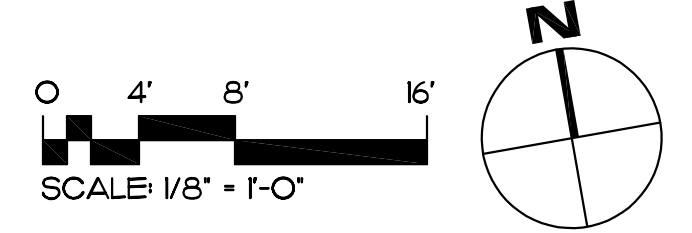
ARCHITECTURE

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SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE
PLUMBING FLOOR PLAN

SCALE 1/8" = 1'-0"	DRAWING NO.
DRAWN DJL	P.I.I.
CHECKED SWC	
DATE 5-20-2024	
PROJECT NO. 2016-20B	



WALL LEGEND

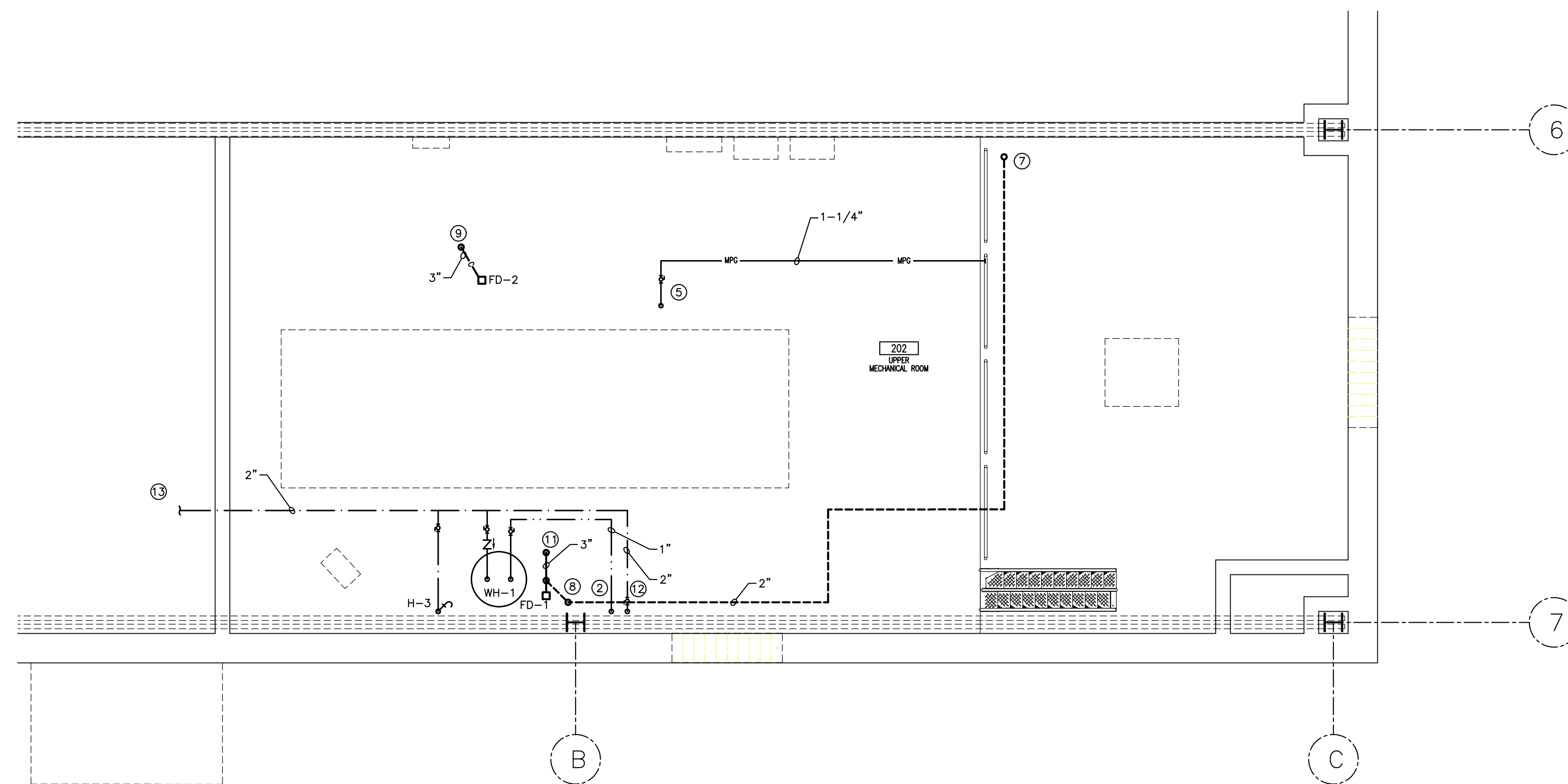
- ONE(1)-HOUR FIRE RATED WALL
- TWO(2)-HOUR FIRE RATED WALL

GENERAL NOTES:

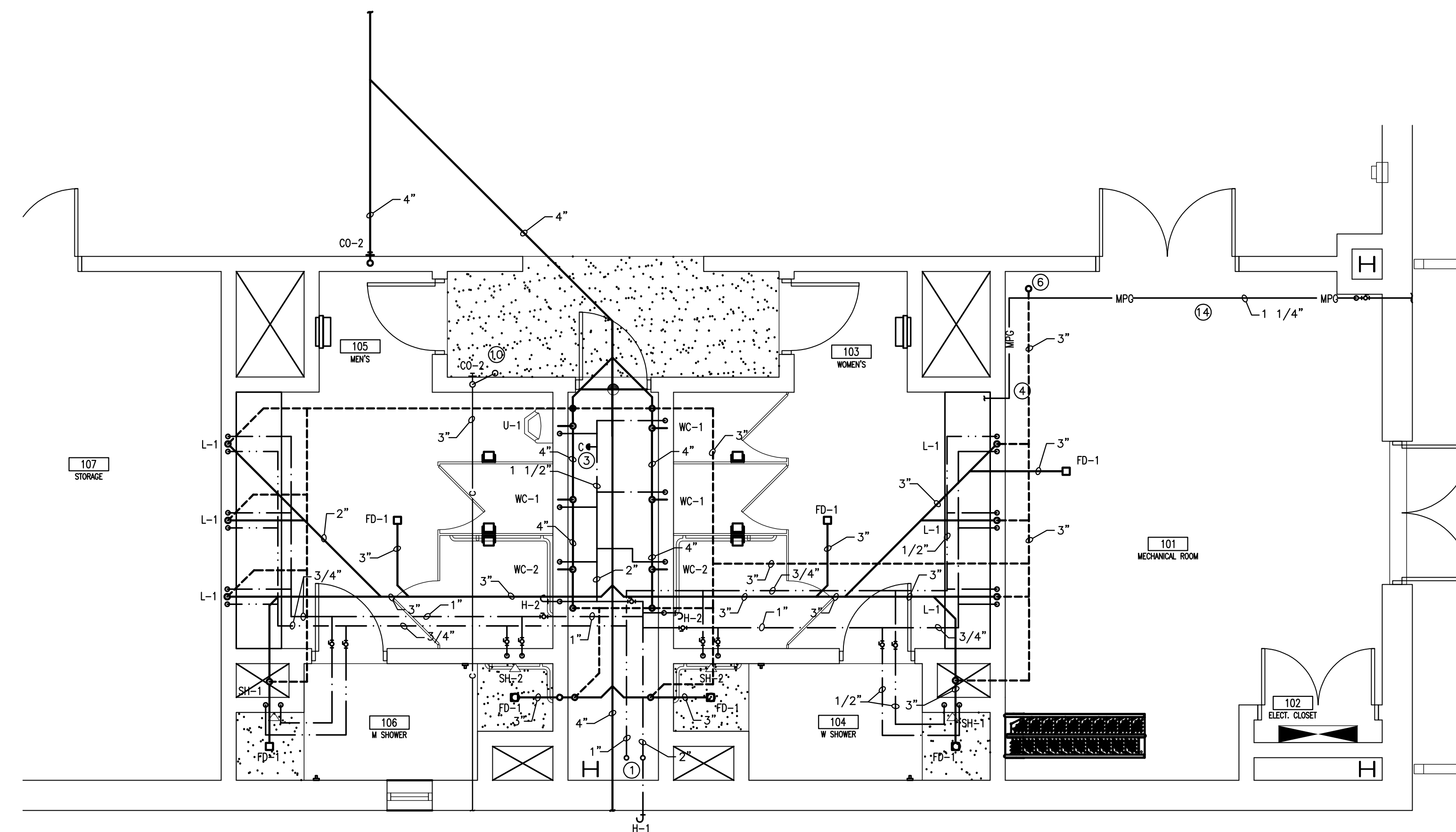
1. ALL VENT PIPING SHALL BE 2" UNO
2. CAREFULLY COORDINATE ALL LOCATIONS OF UTILITIES ENTERING NEW BUILDING AND ROUTED THROUGH EXISTING BUILDING WITH OTHER TRADES AND GENERAL CONTRACTOR BEFORE START OF WORK

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① HW PIPING DN FROM ABOVE, SEE DETAIL 02 THIS SHEET FOR CONTINUATION
- ② HW DN TO FIRST FLOOR, SEE DETAIL 01 THIS SHEET FOR CONTINUATION
- ③ LOCATE WATER HAMMER ARRESTOR ABOVE CEILING IN A LOCATION THAT IS EASILY ACCESSIBLE
- ④ GAS PIPING UP, SEE DETAIL 02 THIS SHEET FOR CONTINUATION
- ⑤ PROVIDE GAS COCK SHUT OFF, 6" DIRT LEG, BALL VALVE, AND CAP FOR CONTINUATION BY MECHANICAL CONTRACTOR, FINAL CONNECTION TO AHU BY MECHANICAL CONTRACTOR
- ⑥ 3" VENT UP, SEE DETAIL 02 THIS SHEET FOR CONTINUATION
- ⑦ 3" VTR
- ⑧ ROUTE VENT BELOW SLAB AND RISE UP NEAR COLUMN AT WALL
- ⑨ 3" CONDENSATE DRAIN DN, SEE DETAIL 01 THIS SHEET FOR CONTINUATION
- ⑩ 3" CONDENSATE DRAIN DN FROM ABOVE, SEE DETAIL 02 THIS SHEET FOR CONTINUATION
- ⑪ 3" WASTE PIPING DN TO FIRST FLOOR, SEE DETAIL 01 THIS SHEET FOR CONTINUATION
- ⑫ 2" CW DN TO FIRST FLOOR, SEE DETAIL 01 THIS SHEET FOR CONTINUATION
- ⑬ 2" CW FROM EXISTING BUILDING, SEE SHEET P1.1 FOR CONTINUATION
- ⑭ ROUTE GAS PIPING UP HIGH, TIGHT TO STRUCTURE



ENLARGED UPPER MECHANICAL ROOM PLAN
1/4" = 1'-0" (O2) P2.1



ENLARGED RESTROOM PLAN
1/4" = 1'-0" (O1) P2.1

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KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

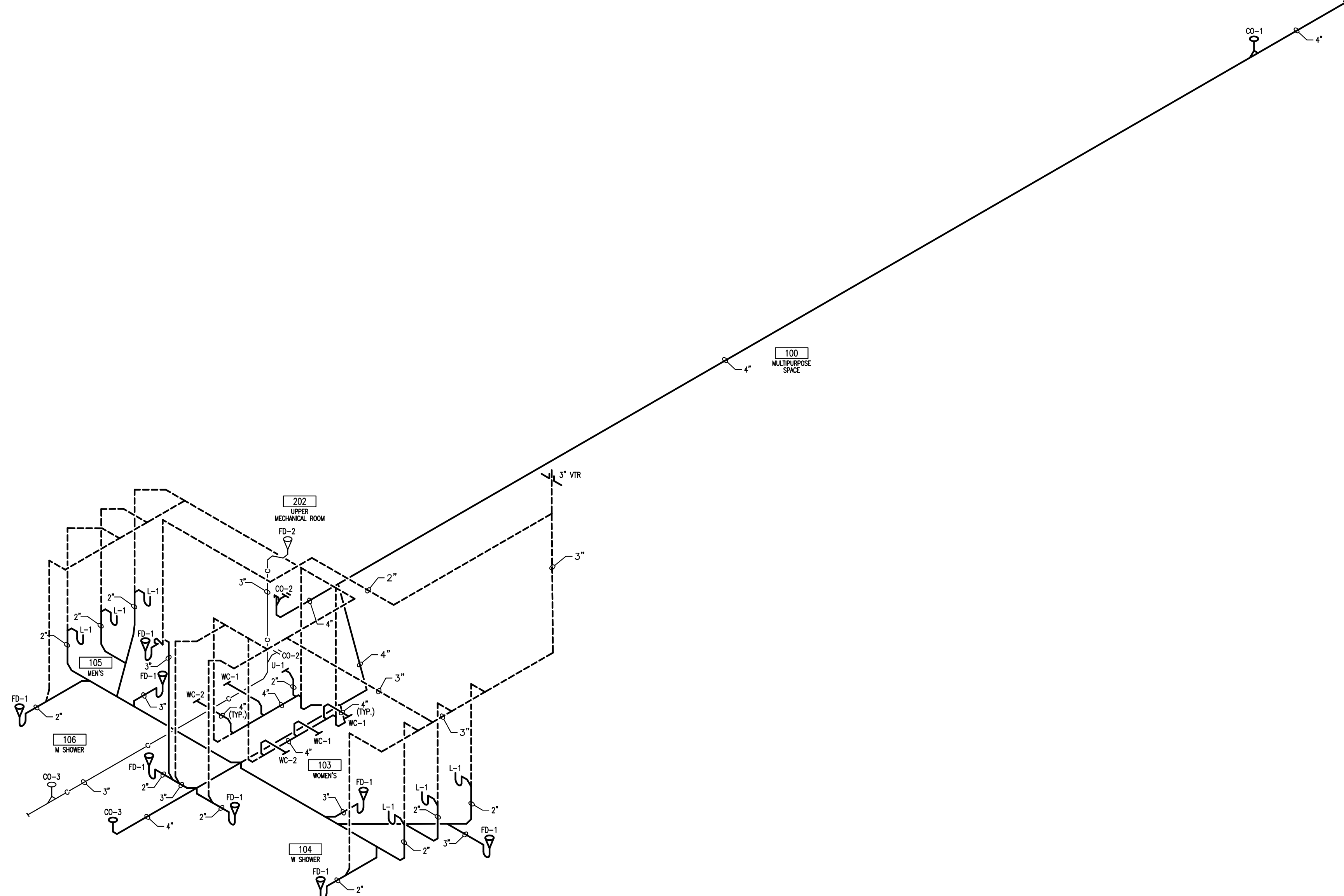
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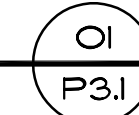
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CLINTON, NC

DRAWING TITLE		P2.1
SCALE	DRAWING NO.	
DRAWN	DJL	
CHECKED	SWC	
DATE	5-20-2024	
PROJECT NO.	2016-20B	



WASTE & VENT RISER
NT.S.

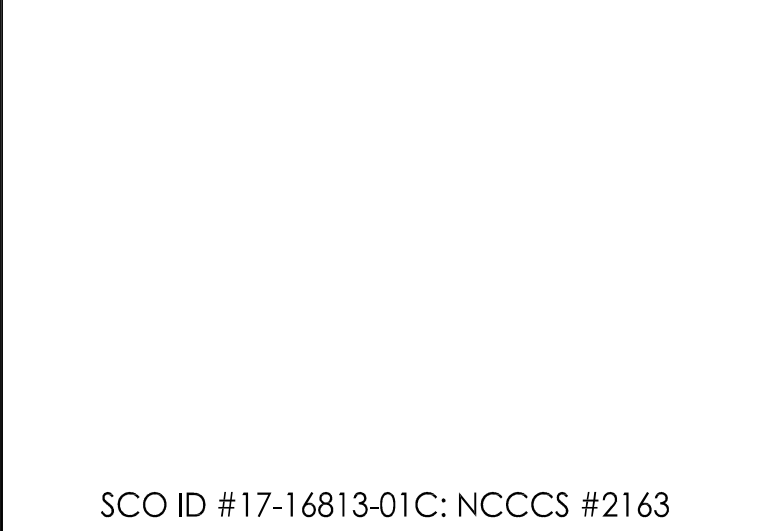


CONSULTANT



pdc
 Progressive Design Collaborative, Inc.
 3101 Poplarwood Court, Suite 300
 Raleigh, North Carolina 27604
 919-703-0969
 License# E-01183
 PDC #24010

KEY PLAN



SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE



JK F
 ARCHITECTURE

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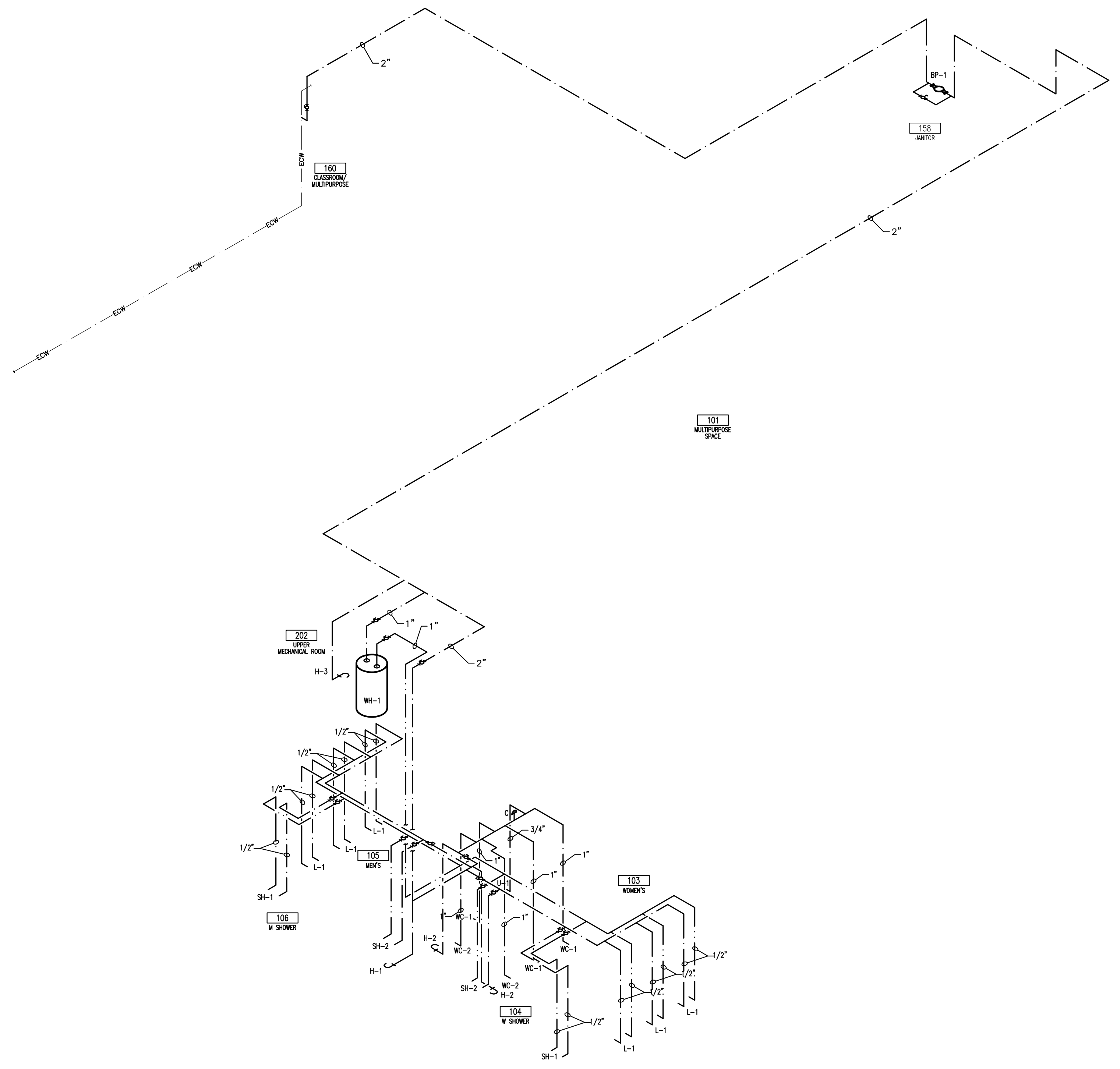
SAMPSON COMMUNITY
 COLLEGE ACTIVITIES
 BUILDING ADDITION
 CLINTON, NC

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 WASTE AND VENT RISER

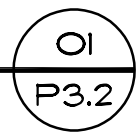
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PROJECT NO.	2016-20B	

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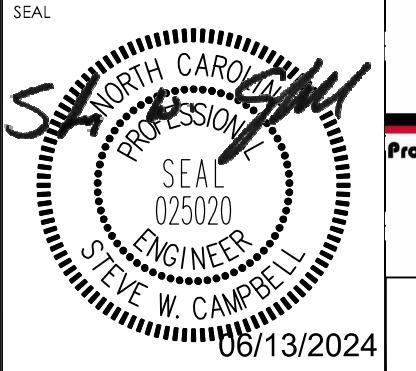
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HOT & COLD WATER RISER
N.T.S.



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pdc
 Progressive Design Collaborative, Ltd.
 3101 Poplarwood Court, Suite 300
 Raleigh, North Carolina 27604
 919-703-0909
 License # C-01183
 PDC #24010

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SCO ID #17-16813-01C; NCCCS #2163

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SAMPSON COMMUNITY
 COLLEGE ACTIVITIES
 BUILDING ADDITION
 CLINTON, NC

DRAWING TITLE
 DOMESTIC WATER RISER

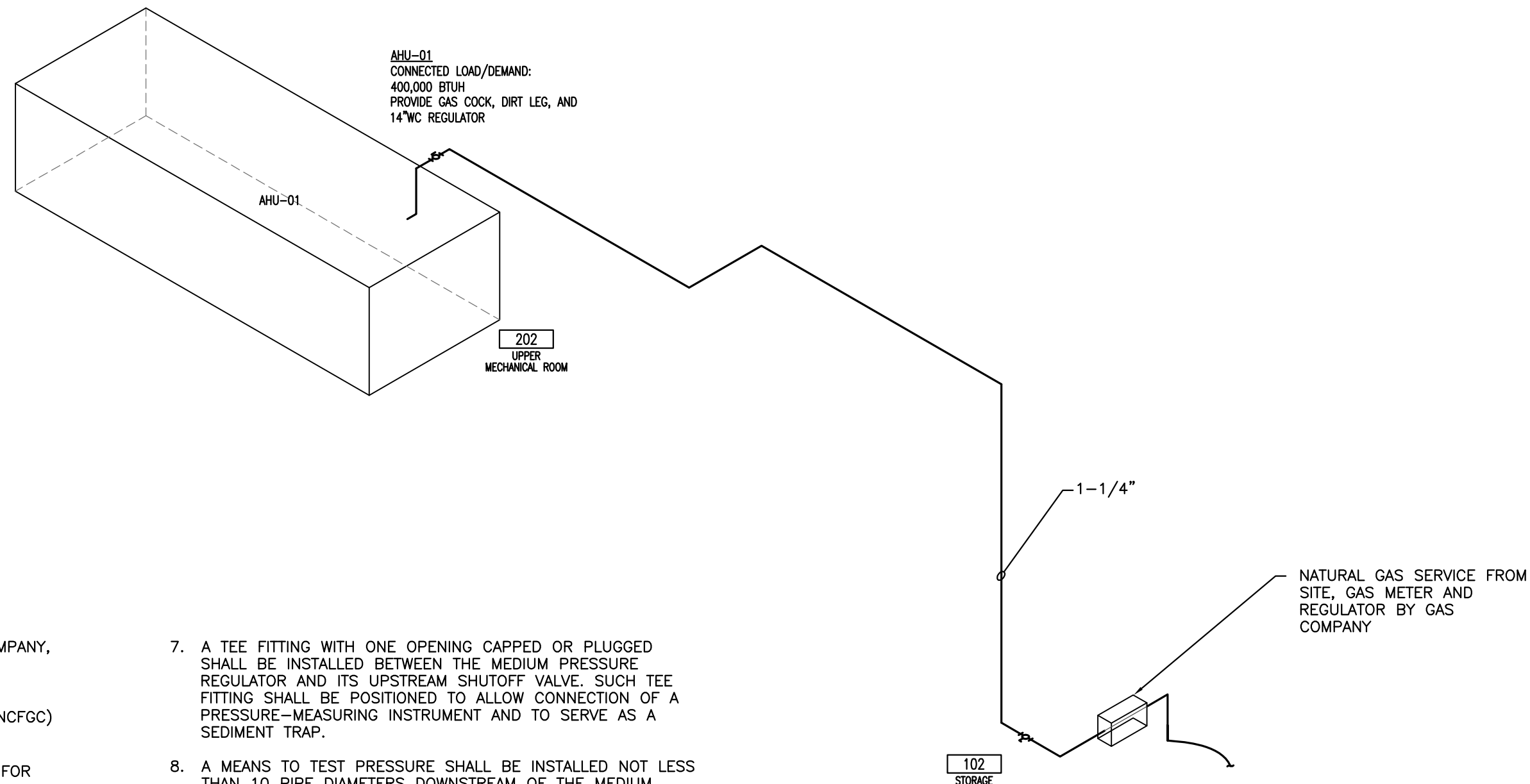
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CHECKED	SWC	
DATE	5-20-2024	
PROJECT NO.	2016-20B	

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Project #: 2016-20B
 Printed On: June 13, 2024 @ 7:04 AM
 Sheet: P3-2



- GENERAL NOTES:
1. 1/2" INCOMING GAS, PRESSURE REGULATOR, AND METER BY GAS COMPANY. PROVIDE 2 psi NATURAL GAS SERVICE AT 400,000 BTUH CAPACITY ON BUILDING SIDE. COORDINATE WITH CIVIL.
 2. PIPING SIZED BY LONGEST LENGTH METHOD AND NC FUEL GAS CODE (NCFGC) TABLE 402.4(3)
 3. MEDIUM PRESSURE REGULATOR SHALL BE APPROVED AND BE SUITABLE FOR THE INLET AND OUTLET GAS PRESSURES FOR THE APPLICATION
 4. MEDIUM PRESSURE REGULATOR SHALL MAINTAIN A REDUCED OUTLET PRESSURE UNDER LOCKUP (NO-FLOW) CONDITIONS
 5. THE CAPACITY OF THE MEDIUM PRESSURE REGULATOR, DETERMINED BY PUBLISHED RATINGS OF ITS MANUFACTURER, SHALL BE ADEQUATE TO SUPPLY THE APPLIANCES SERVED
 6. THE MEDIUM PRESSURE REGULATOR SHALL BE PROVIDED WITH ACCESS.
 7. A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED BETWEEN THE MEDIUM PRESSURE REGULATOR AND ITS UPSTREAM SHUTOFF VALVE. SUCH TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE-MEASURING INSTRUMENT AND TO SERVE AS A SEDIMENT TRAP.
 8. A MEANS TO TEST PRESSURE SHALL BE INSTALLED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF THE MEDIUM PRESSURE REGULATOR OUTLET. SUCH FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE-MEASURING INSTRUMENT.
 9. GAS LINE TO BE BONDED IN ACCORDANCE WITH THE 2018 NCFGC, SECTION 310 ELECTRICAL BONDING.
 10. PRESSURE REGULATORS THAT REQUIRE A VENT SHALL BE VENTED DIRECTLY TO THE OUTDOORS AND DESIGNED TO PREVENT THE ENTRY OF INSECTS, WATER AND FOREIGN OBJECTS IN ACCORDANCE WITH 2018 NCFGC SECTION 410.3.

GAS RISER
NTS.

OI
P3.3

CONSULTANT

SEAL

pdc
Progressive Design Collaborative, Ltd.
3101 Poplarwood Court, Suite 300
Raleigh, North Carolina 27604
919-703-0909
License# E-01183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

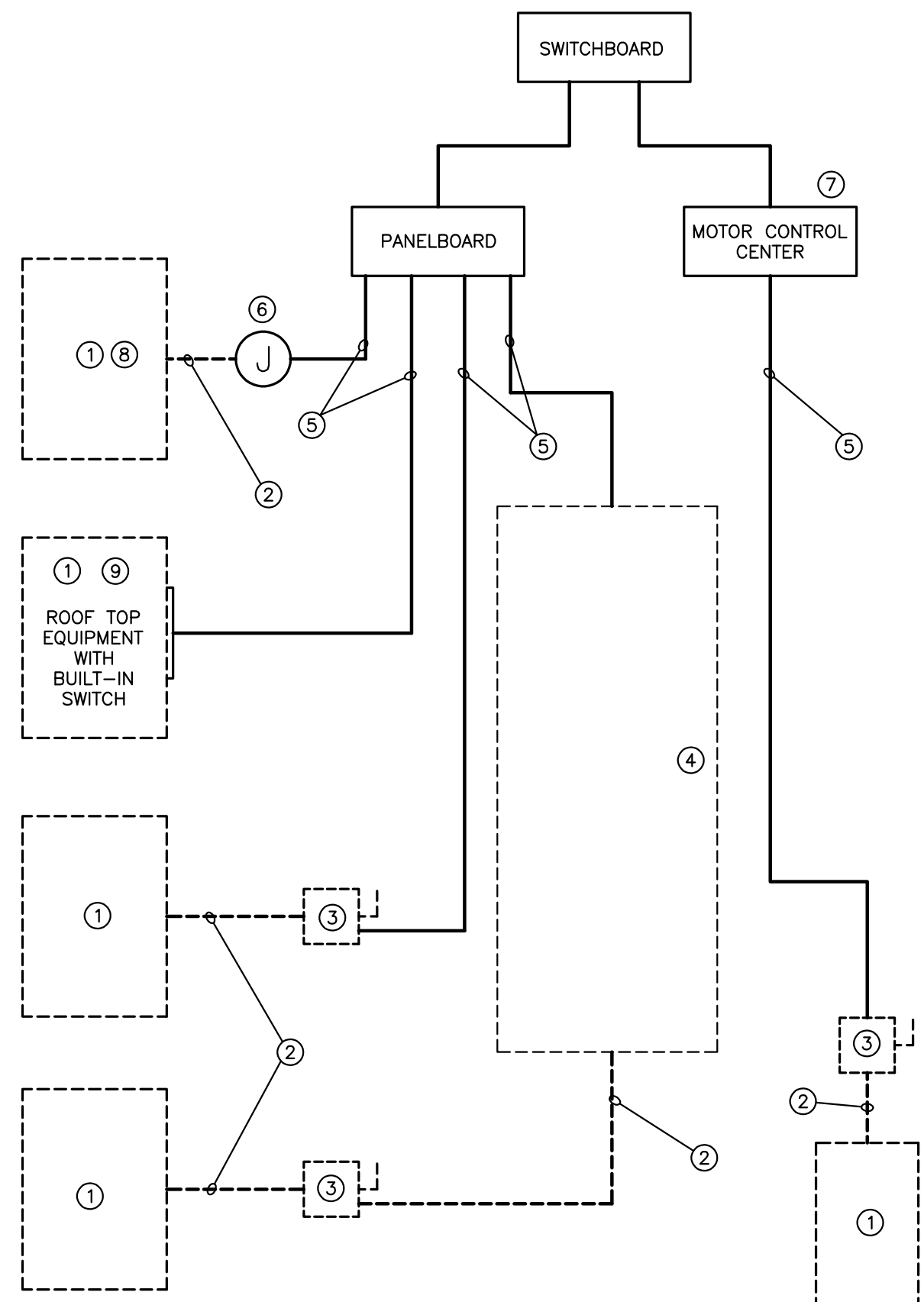
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SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE		DRAWING NO P3.3
GAS RISER		
SCALE	NTS	
DRAWN	DJL	
CHECKED	SWC	
DATE	5-20-2024	
PROJECT NO.	2016-20B	

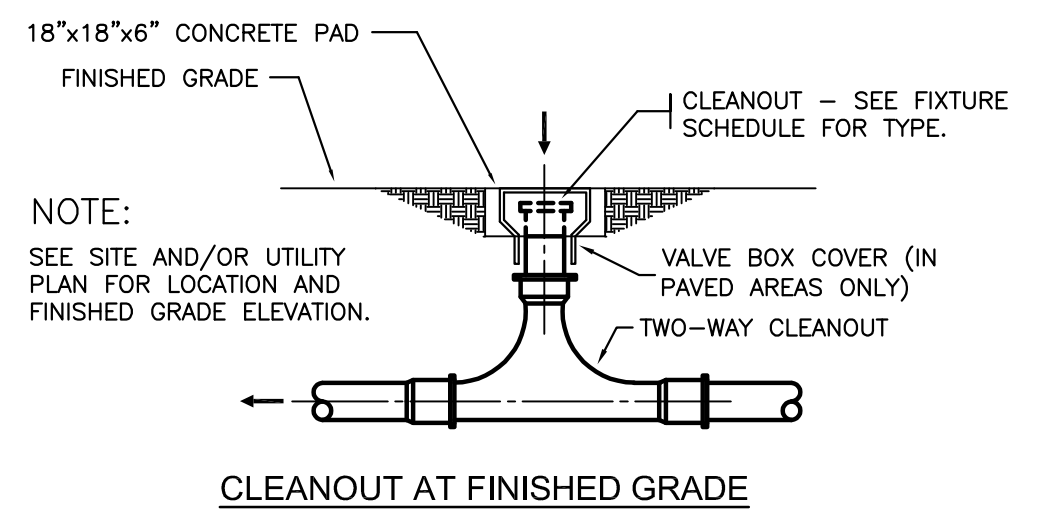


- ELECTRICAL NOTES:**
- EQUIPMENT OF TRADES OTHER THAN ELECTRICAL
 - CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES
 - IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR
 - A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
 - FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
 - JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
 - FOR PROJECTS UTILIZING AN MCC, THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
 - IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
 - IF THE ROOF TOP FAN IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
 - IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES

ELECTRICAL EQUIPMENT CONNECTIONS

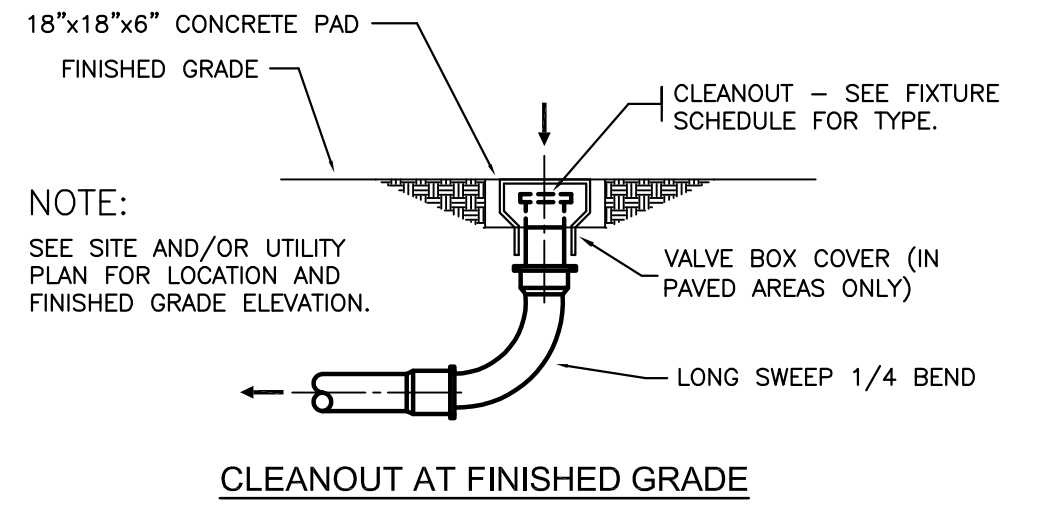
DETAIL
NOT TO SCALE

10



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

CLEANOUT AT FINISHED GRADE

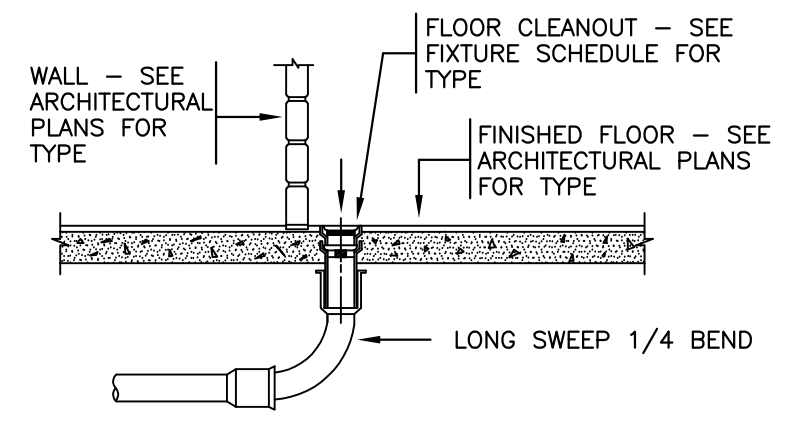


NOTE:
SEE SITE AND/OR UTILITY PLAN FOR LOCATION AND FINISHED GRADE ELEVATION.

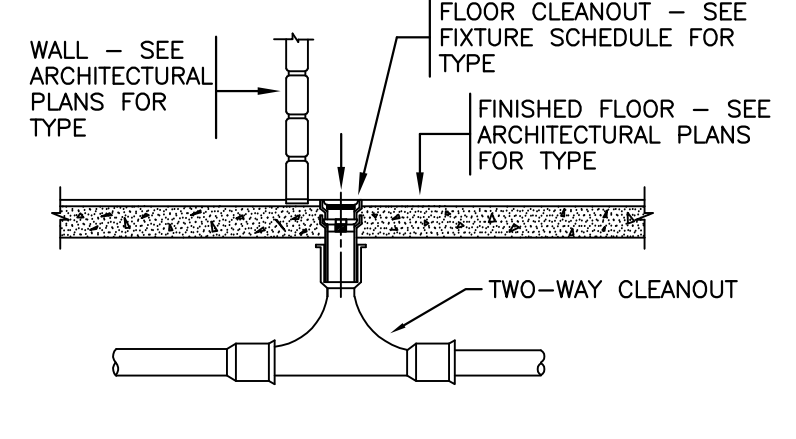
CLEANOUT AT FINISHED GRADE

DETAIL
NOT TO SCALE

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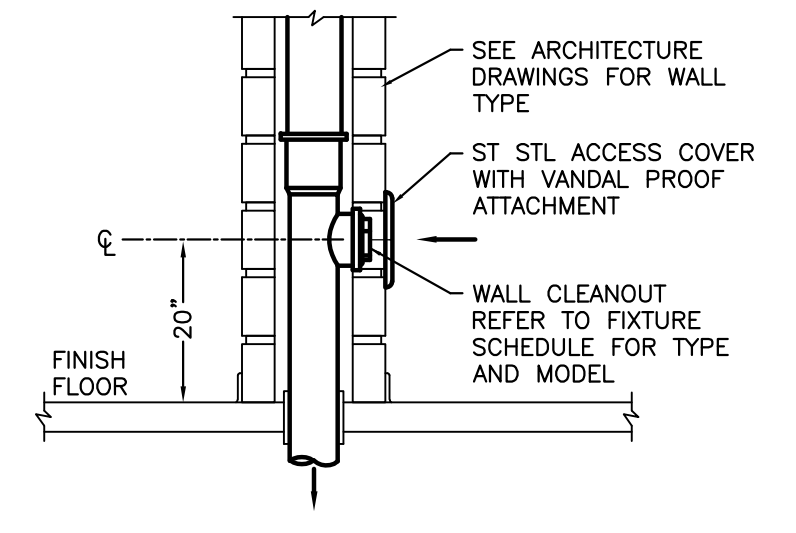
CLEANOUT AT FINISHED FLOOR



CLEANOUT AT FINISHED FLOOR

DETAIL
NOT TO SCALE

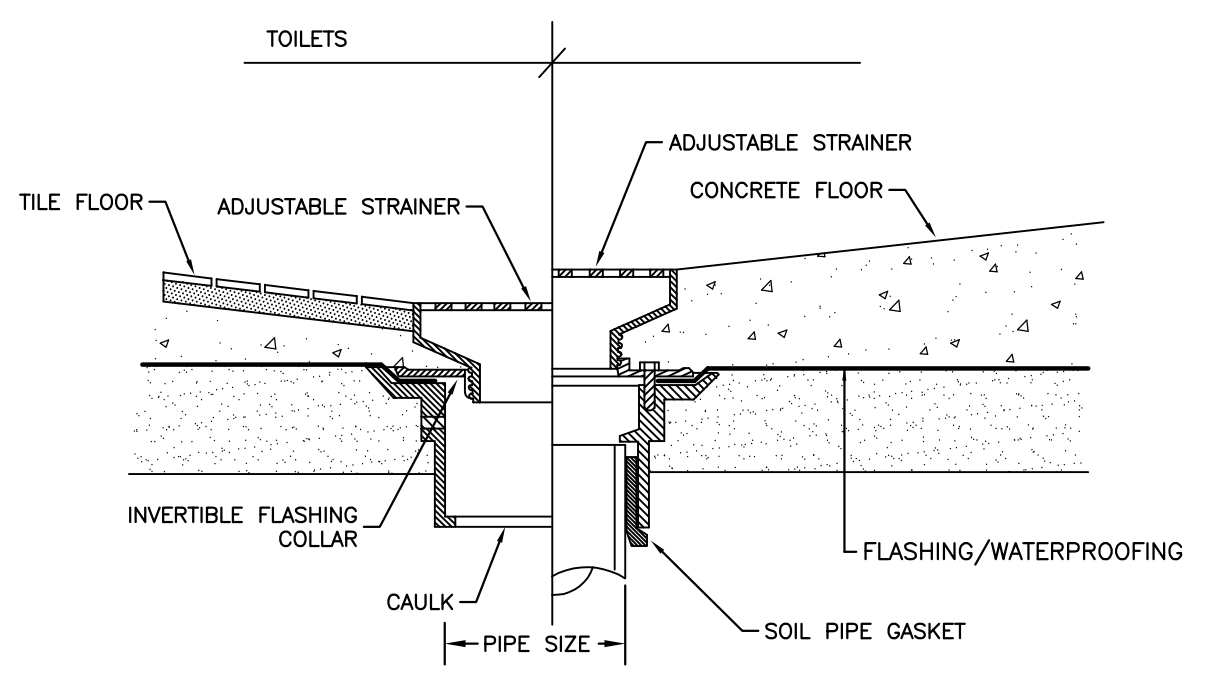
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CLEANOUT AT WALL

DETAIL
NOT TO SCALE

07

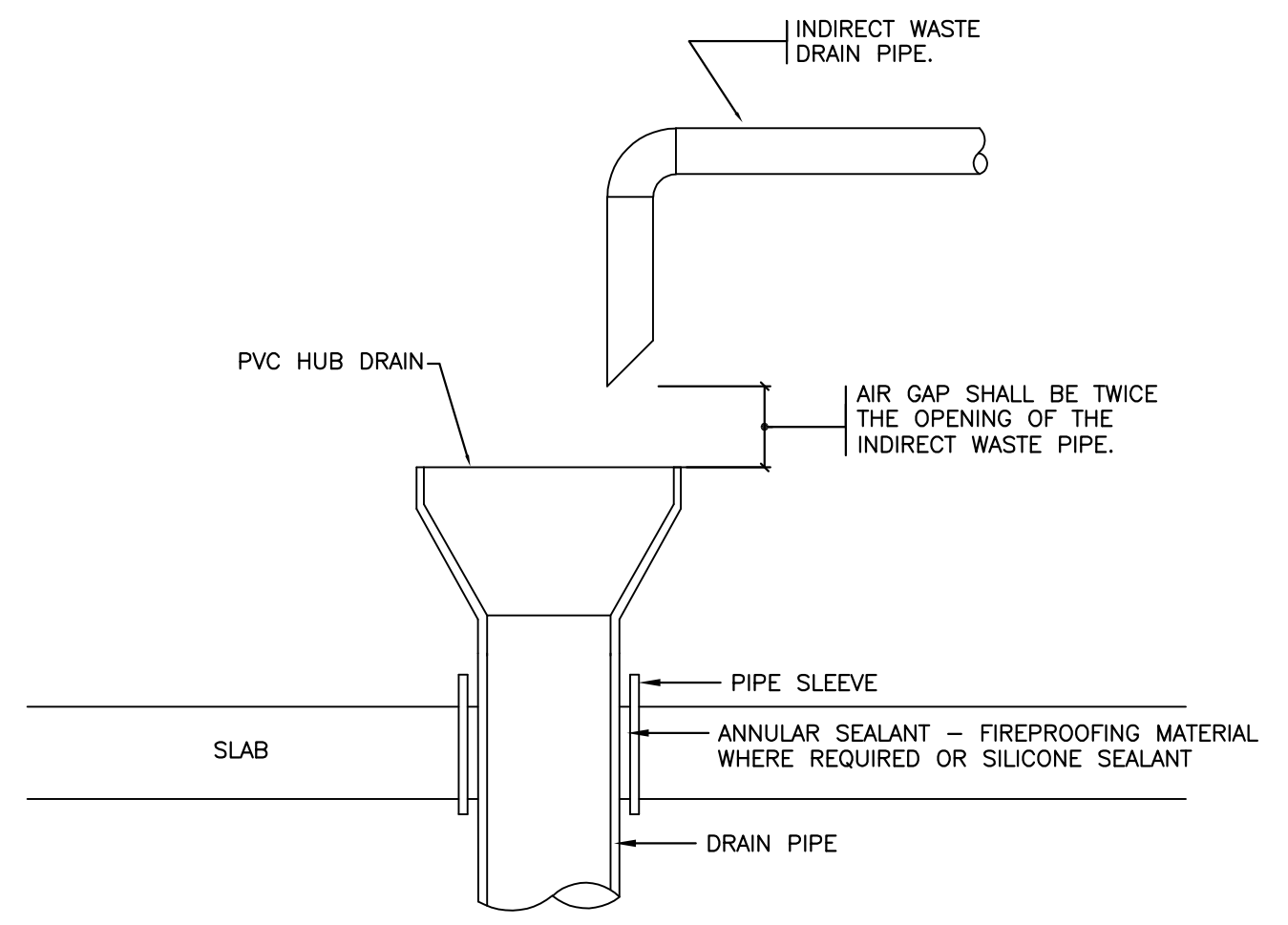


NOTES:
1. THE PLUMBING CONTRACTOR IS TO COORDINATE WITH THE GENERAL CONTRACTOR THE DRAIN LOCATIONS AND SETTING HEIGHTS.
2. SEE ARCHITECTURAL PLANS FOR ALL FLOOR FINISHES AND THICKNESSES.

FLOOR DRAIN (FD-1)

DETAIL
NOT TO SCALE

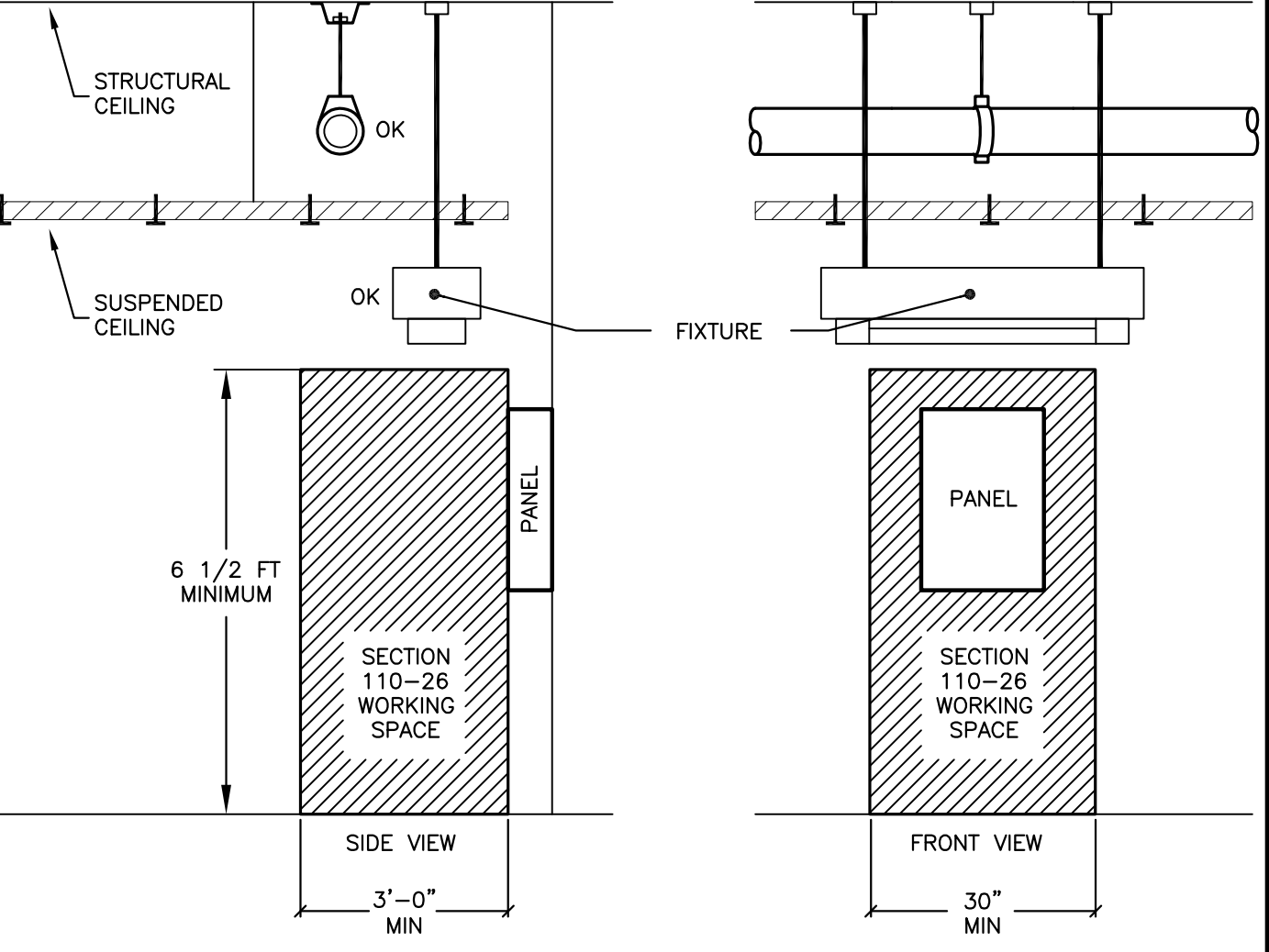
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HUB DRAIN DETAIL (FD-3)

DETAIL
NOT TO SCALE

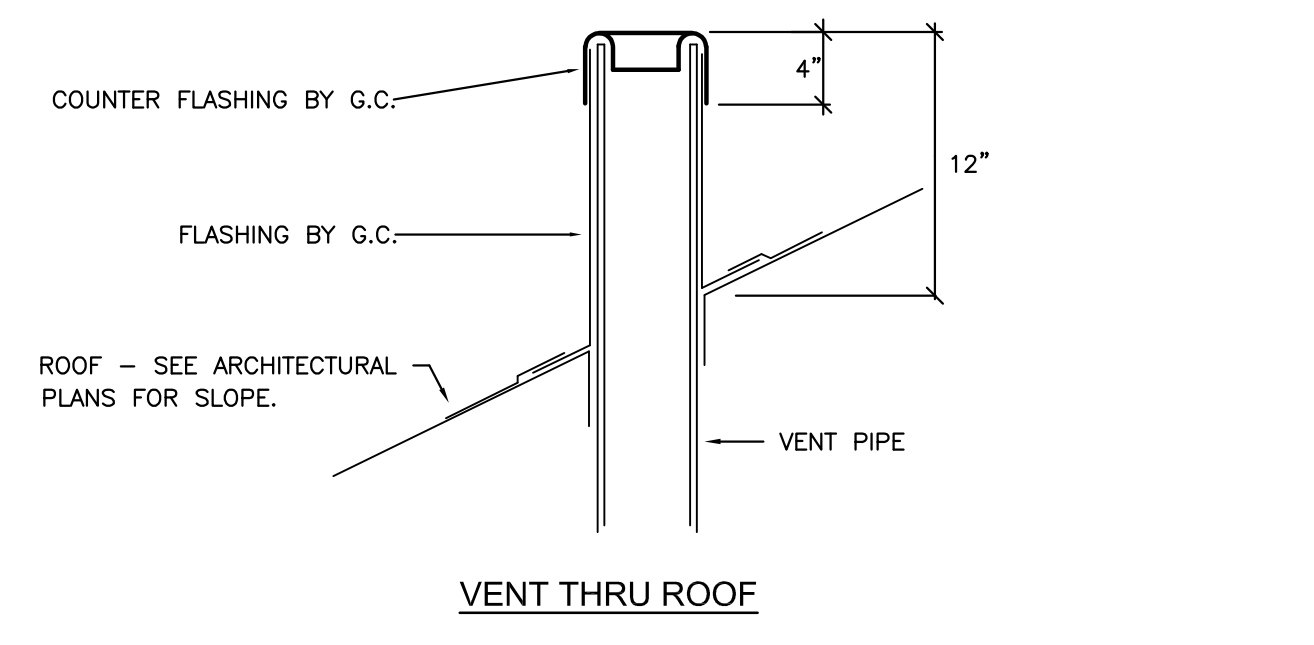
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WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
N.E.C ARTICLE 110-26

DETAIL
NOT TO SCALE

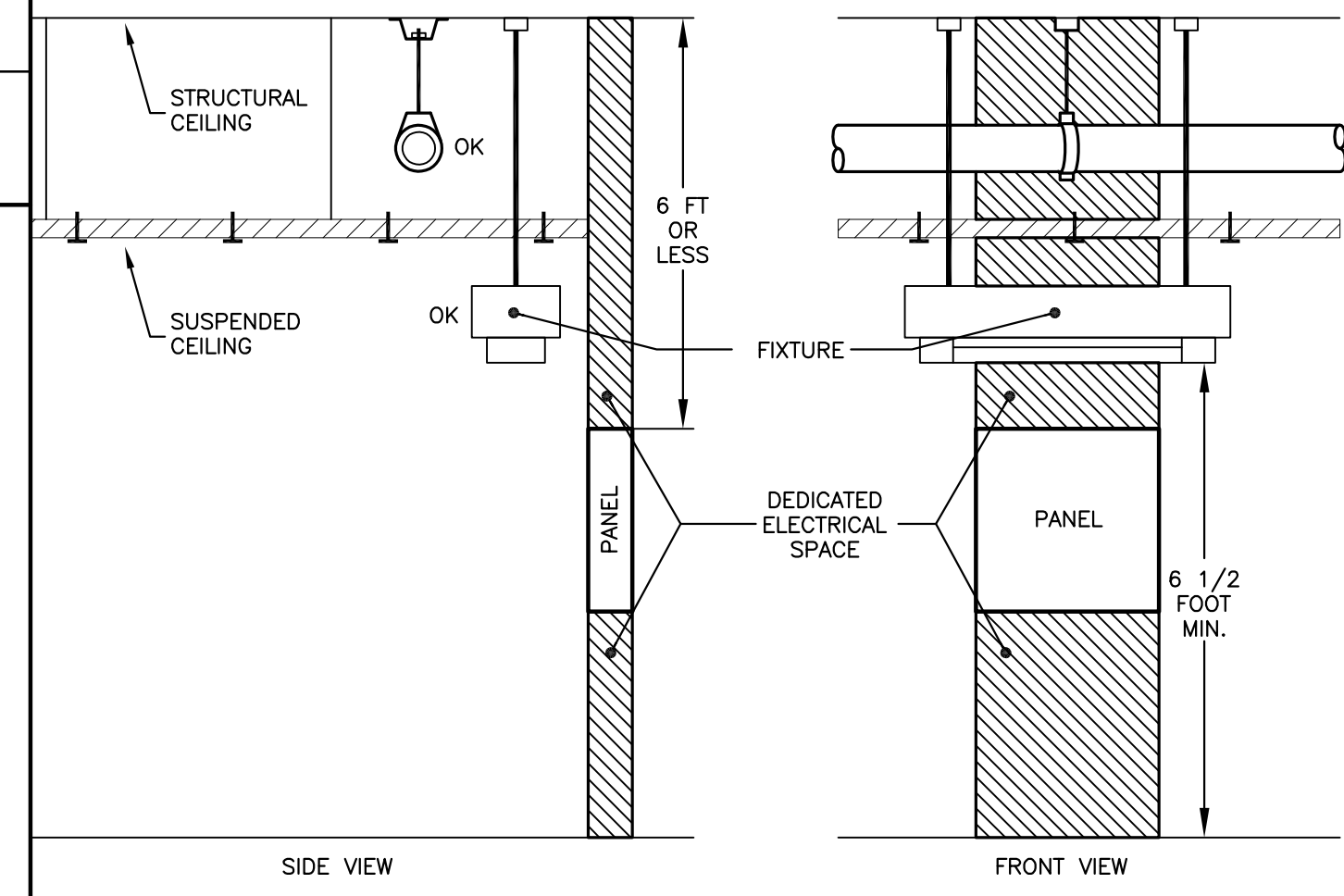
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VENT THRU ROOF

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NOT TO SCALE

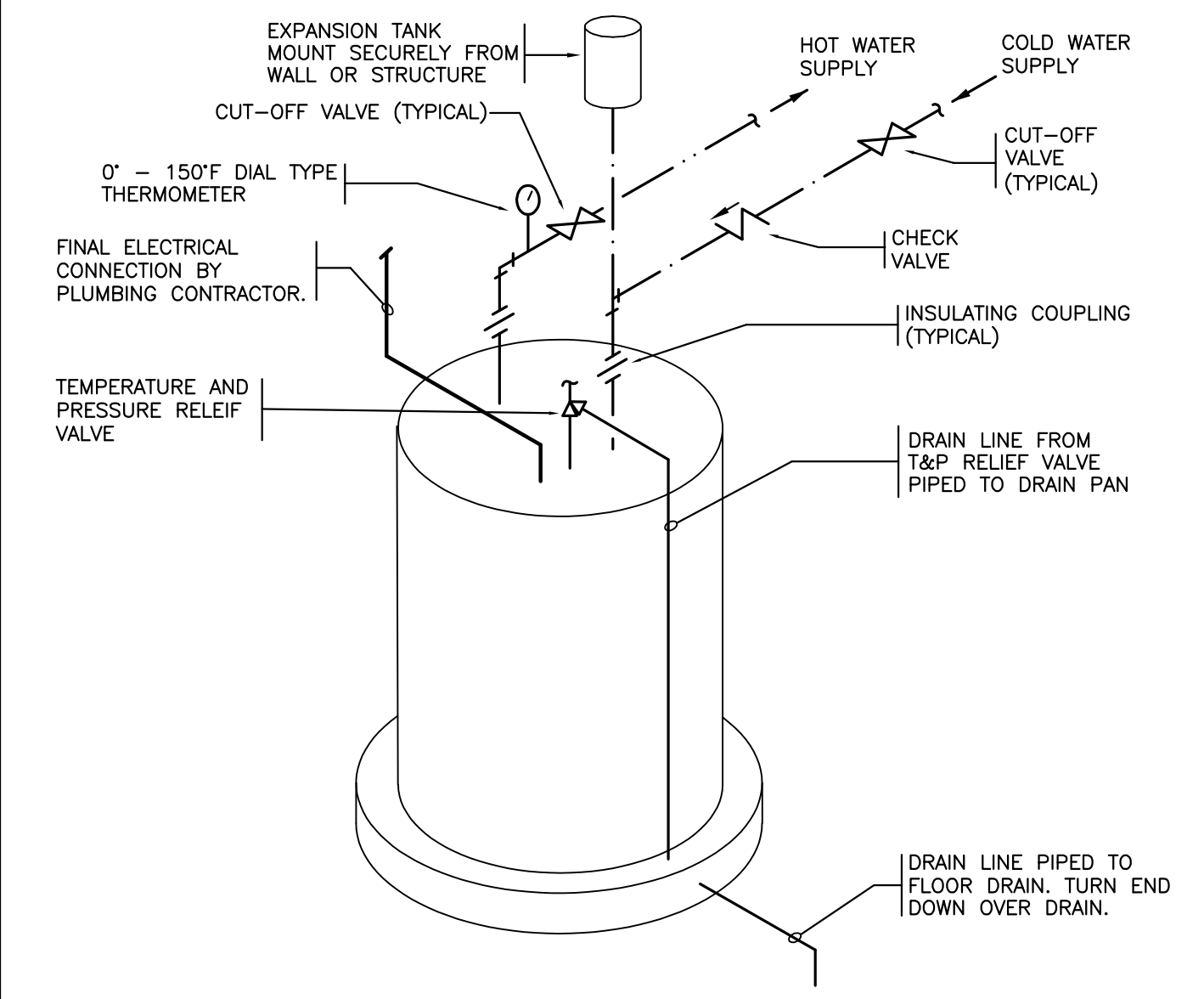
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DEDICATED SPACE FOR ELECTRICAL EQUIPMENT
N.E.C ARTICLE 110-26(F)(1)

DETAIL
NOT TO SCALE

02



ELECTRIC WATER HEATER (WH-1)

NOTES:
1. REQUIREMENTS FOR THERMAL EXPANSION MUST BE MET
2. FLOOR DRAIN FOR RELIEF VALVE PIPING LOCATION MUST BE COORDINATED
3. PROVIDE A CHECK VALVE IN VERTICAL SUPPLY PIPING TO FIXTURES
4. PROVIDE 4" CONCRETE MAINTENANCE PAD FOR HEATER(S) AND TANK(S)
5. PROVIDE 3' MIN. CLEARANCE IN FRONT OF HEATER(S) AND TANK(S)

DETAIL
NOT TO SCALE

01

CONSULTANT

SEAL

PROGRESSIVE DESIGN COLLABORATIVE, LTD.
3101 Poplwood Court, Suite 300
Raleigh, North Carolina 27604
919-703-0909
License# C-0183
PDC #24010

06/13/2024

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

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J K F
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
PLUMBING DETAILS

SCALE
1/8"=1'-0"

DRAWN
DJL

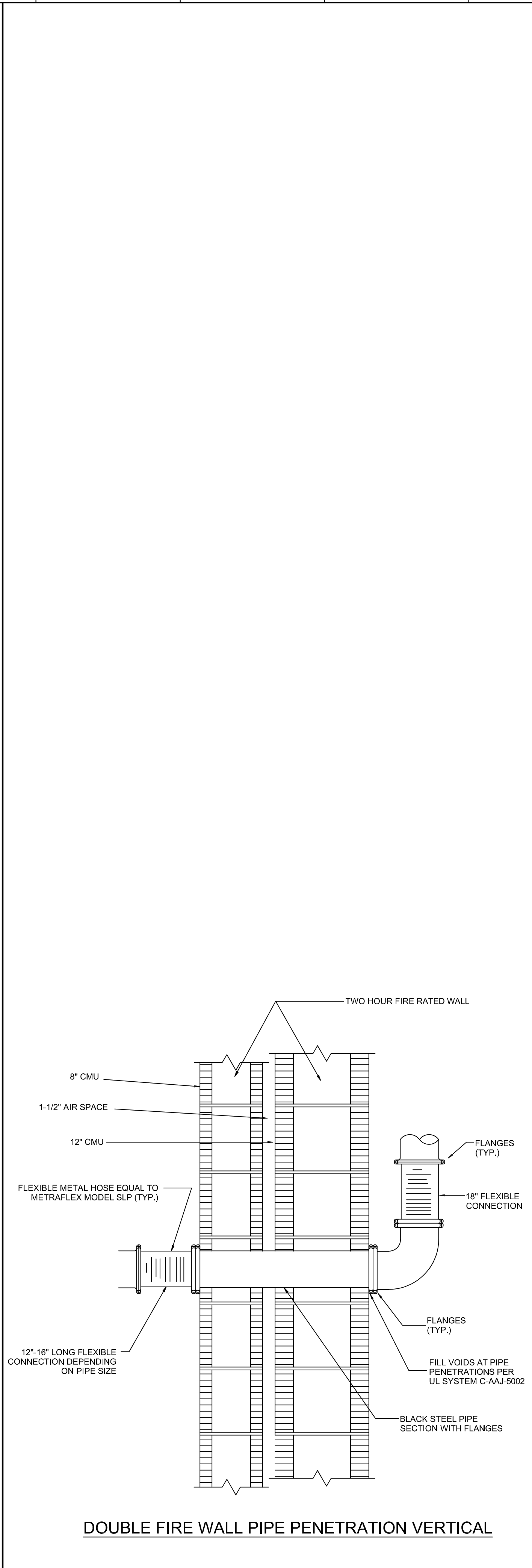
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5-20-2024

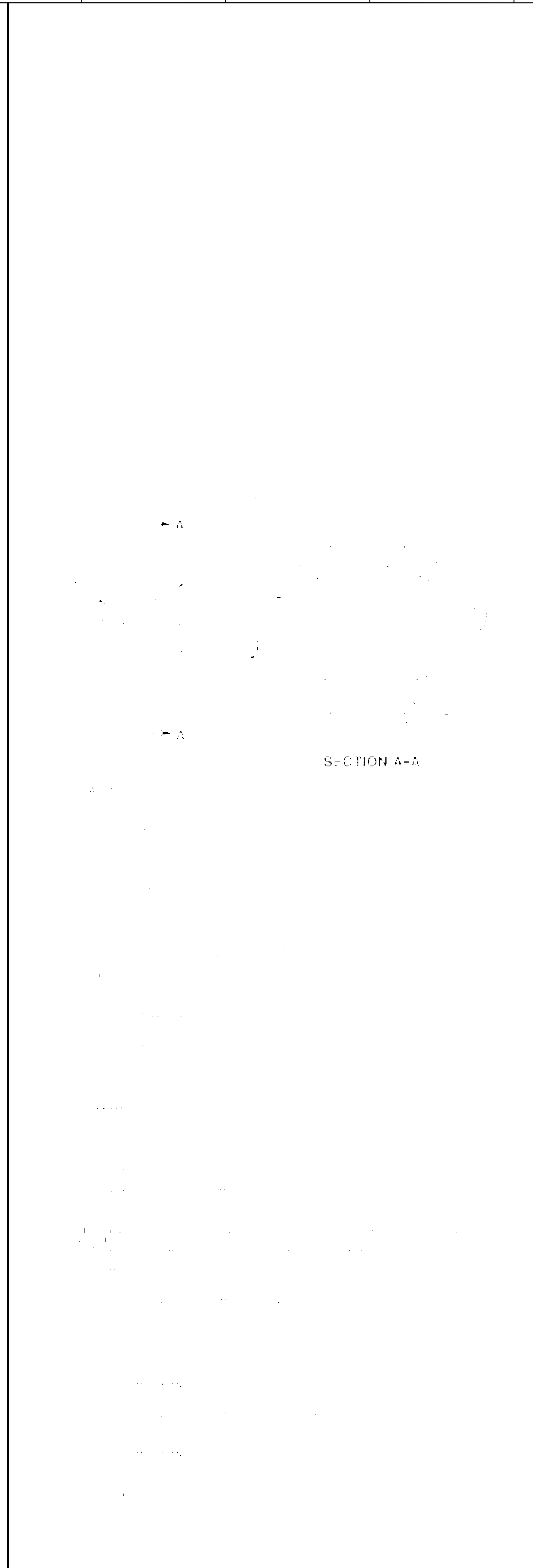
PROJECT NO.
2016-20B

P4.1

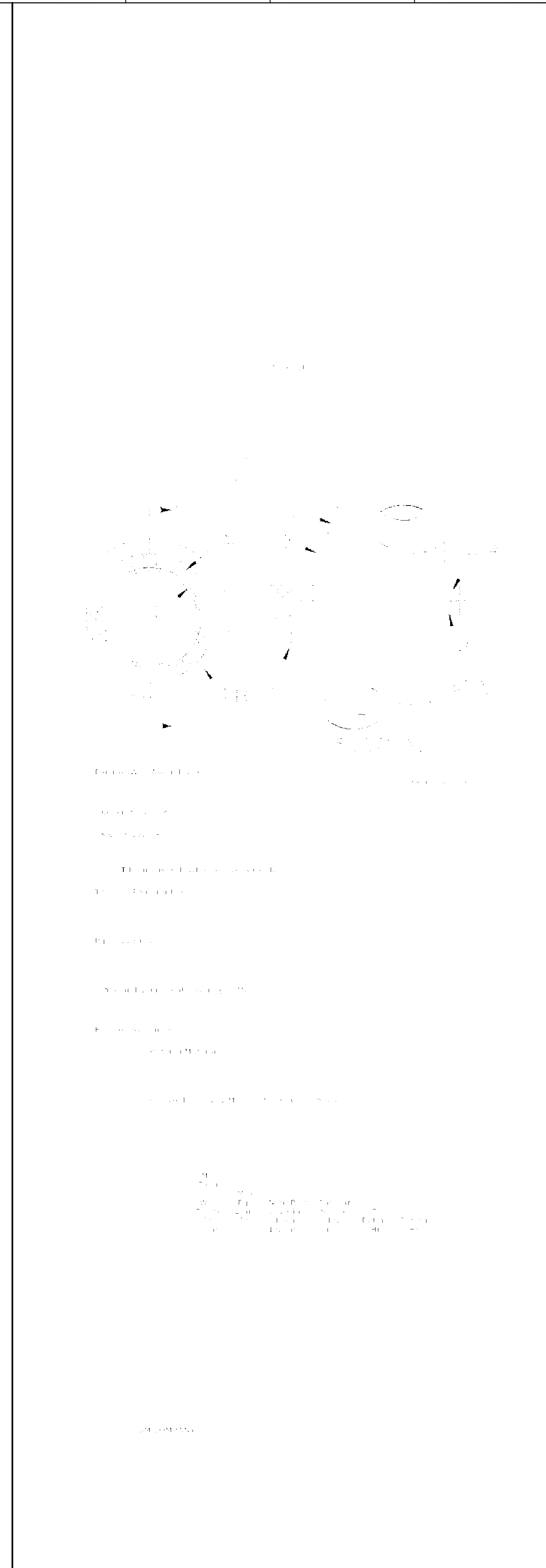
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DETAIL
NOT TO SCALE
03



DETAIL
NOT TO SCALE
02



DETAIL
NOT TO SCALE
01

CONSULTANT

SEAL

PROFESSIONAL ENGINEER
SEAL
025020
STEVE W. CAMPBELL
06/13/2024

pdc
Progressive Design Collaborative, Ltd.
3101 Poplarwood Court, Suite 300
Raleigh, North Carolina 27604
919-703-0909
License# C-0183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

SEAL

J K F
ARCHITECTURE

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

SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
PLUMBING DETAILS

SCALE	1/8"=1'-0"	DRAWING NO. P4.2
DRAWN	DJL	
CHECKED	SWC	
DATE	5-20-2024	
PROJECT NO.	2016-20B	

ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT	HVAC	HEATING VENTILATION & AIR CONDITIONING
ACU	AIR CONDITIONING UNIT	HX	HEAT EXCHANGER
AD	ACCESS DOOR	HZ	HERTZ
AF	AIR FILTER		
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT	IF	INJECTION FAN
ALUM	ALUMINUM	IN	INCHES
AMP	AMPERE	INSUL	INSULATION
AP	ACCESS PANEL	ISDL	ISOLATION
ARCH	ARCHITECTURAL		
AVG	AVERAGE	KE	KITCHEN EXHAUST
CC	AIR COOLED CONDENSER	KW	KILOWATT
B	BOILER	LAT	LEAVING AIR TEMPERATURE
B.I.	BLACK IRON	LBS	POUNDS
BB	BASEBOARD RADIATION	LF	LINEAR FEET
BDD	BACKDRAFT DAMPER	LLC	LIQUID LEVEL CONTROLLER
BHP	BRAKE HORSEPOWER	LWT	LEAVING WATER TEMPERATURE
BO	BLANK OFF		
BTU	BRITISH THERMAL UNIT	MAT	MIXED AIR TEMPERATURE
BTUH	BRITISH THERMAL UNITS PER HOUR	MAX	MAXIMUM
		MIN	MINIMUM
CA	COMPRESSED AIR		
CAP	CAPACITY	N.C.	NORMALLY CLOSED
CAU	COMPRESSED AIR	N.O.	NORMALLY OPEN
CC	COOLING COIL	NC	NOISE CRITERIA
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CH	CHILLER	NK	NECK
CI	CAST IRON	NPSH	NET POSITIVE SUCTION HEAD
CL	CENTER LINE	NTS	NOT TO SCALE
CO	CARBON MONOXIDE		
CO	CLEAN OUT	OA	OUTSIDE AIR
CONC	CONCRETE	OAI	OUTSIDE AIR INTAKE
CT	COOLING TOWER	OB	OPPOSED BLADE DAMPER
CU	CONDENSING UNIT	OD	OUTSIDE DAMPER
CUH	CABINET UNIT HEATER	OV	OUTLET VELOCITY
CV	CONSTANT VOLUME		
CY	CYCLE	P	PUMP
		PD	PRESSURE DROP
DB	DRY BULB TEMPERATURE	PH	PHASE
DEL	DEFLECTION	PRESS	PRESSURE
DIFF	DIFFUSION	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSIG	POUNDS PER SQUARE INCH
DWG	DRAWING	ΔP	PRESSURE DIFFERENTIAL
DX	DIRECT EXPANSION		
EA	EACH	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	REFRIG	REFRIGERANT
EF	EXHAUST FAN	REG	REGISTER
EFF	EFFICIENCY	RET	RETURN
EHC	ELECTRIC HEAT COIL	RF	RELIEF / RETURN FAN
ESP	EXTERNAL STATIC PRESSURE	RH	RELATIVE HUMIDITY
ET	EXPANSION TANK	RM	ROOM
EUH	ELECTRIC UNIT HEATER	RO	REVERSE OSMOSIS
EWT	ENTERING WATER TEMPERATURE	rpm	REVOLUTIONS PER MINUTE
EXH	EXHAUST	RTU	ROOFTOP UNIT
		SA	SUPPLY AIR
F.D.	FLOOR DRAIN	SD	SMOKE DAMPER
FA	FREE AREA	SF	SUPPLY FAN
FCU	FAN COIL UNIT	SM	SHEET METAL
FD	FIRE DAMPER	SP	STATIC PRESSURE
FLEX	FLEXIBLE	SQ. FT.	SQUARE FEET
FM	FLOW METER	SS	STAINLESS STEEL
FP	FAN POWERED BOX	ST	SOUND TRAP
FPM	FEET PER MINUTE		
FT	FEET	T	TANK
FT2	SQUARE FEET	TC	TEMPERATURE CONTROL
FT3	CUBIC FEET	TE	TOILET EXHAUST
°F	DEGREES FAHRENHEIT	TG	TRANSFER GRILLE
		TSP	TOTAL STATIC PRESSURE
GA	GAUGE	TYP	TYPICAL
GC	GENERAL CONTRACTOR	ΔT	TEMPERATURE DIFFERENTIAL
GE	GENERAL EXHAUST		
GPM	GALLONS PER MINUTE	UH	UNIT HEATER
GR	GRILLE	V	VOLTAGE
		VW	VARIABLE AIR VOLUME
*H	ENTHALPY DIFFERENCE	VO	VOLUME DAMPER
HC	HEATING COIL	VEL	VELOCITY
HGRH	HOT GAS REHEAT	VFD	VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VIB	VIBRATION
HP	HORSEPOWER		
HR	HOUR	W	WATT
HU	HUMIDIFIER	WB	WET BULB TEMPERATURE
		WC	WATER COLUMN
		WMS	WIRE MESH SCREEN
		WP	WORKING PRESSURE

GENERAL NOTES

- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- COORDINATE ALL WORK WITH THAT OF THE OTHER DISCIPLINES PRIOR TO THE INSTALLATION OF ANY PIPING, DUCTWORK, OR EQUIPMENT.
- PERFORM A COMPLETE REVIEW OF THE CONTRACT DOCUMENTS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS WITH THE ENGINEER AND ARCHITECT.
- ENSURE THAT ITEMS FURNISHED OR PROVIDED WILL FIT IN THE SPACE AVAILABLE, ACCOUNTING FOR SERVICE AND ACCESS CLEARANCES. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS. PROVIDE THE ENGINEER WITH SCALED COORDINATION DRAWINGS OF ALL MECHANICAL SPACES AND ABOVE CEILING INSTALLATIONS.
- PROVIDE ALL EQUIPMENT TO MAXIMIZE SPACE FOR MAINTENANCE, SERVICE, AND FUTURE REPLACEMENT.
- PROVIDE ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT PROVIDED. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATIONS OF JUNCTION BOXES, DISCONNECTS, CIRCUIT BREAKERS (PANELBOARDS), TYPE, SIZE, AND NUMBER OF CONDUCTORS AND CONDUITS TO EQUIPMENT SHALL BE EQUIVALENT TO THE CONDUCTORS AND CONDUITS PROVIDED BY DIVISION 26. IN CASE OF MECHANICAL EQUIPMENT CONNECTION TO A CIRCUIT BREAKER, THE NUMBER AND SIZE OF THE CONDUCTORS AND CONDUITS SHALL CONFORM TO THE LATEST NATIONAL ELECTRICAL CODE REGULATIONS. ALL MOTOR STARTERS, SWITCHES, CONTROL DEVICES, ETC., PROVIDED BY DIVISION 23 SHALL BE RECESSED IN THE WALLS, EXCEPT WHEN THESE ITEMS ARE LOCATED IN MECHANICAL SPACES. PROVIDE A NAMEPLATE FOR ALL EQUIPMENT, SWITCHES, CONTROL DEVICES, ETC. REFER TO THE GENERAL PROVISIONS SECTION OF THE DIVISION 23 SPECIFICATIONS.
- PROVIDE ALL SUPPORT DEVICES NECESSARY FOR THE WORK. COORDINATE ALL LOCATIONS WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR PLAN DIMENSIONS AND ELEVATIONS. DO NOT SCALE THESE DRAWINGS.
- PROVIDE ALL PENETRATIONS PERTAINING TO THE WORK THROUGH THE ROOF, WALLS, AND FLOORS. PROVIDE THE WATERPROOFING AROUND THE OPENINGS.
- COORDINATE THE SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH DIVISION 7 AND OTHER DISCIPLINES.
- FIRE SEAL ALL FLOOR AND FIRE WALL PIPE AND CONDUIT PENETRATIONS WITH A UL APPROVED METHOD IN ACCORDANCE WITH THE NC BUILDING CODE.
- PROVIDE ALL CUTTING AND PATCHING OF FLOORS AND WALLS FOR THE WORK, UNLESS OTHERWISE INDICATED.
- CONDENSATE DRAINS SHALL BE A MINIMUM OF 1/4" COPPER, INSULATED WITH A 25/50 RATED CLOSED CELL RUBBER TUBING HAVING A NOMINAL WALL THICKNESS OF 1". PROVIDE A P-TRAP WITH VENT AND CLEANOUT PLUG AT THE UNIT. ALL CONDENSATE LINES SHALL BE ROUTED TO A FLOOR DRAIN OR AS INDICATED ON THE DRAWINGS.
- DUCT DIMENSIONS INDICATED ARE INSIDE CLEAR UNLESS OTHERWISE INDICATED.
- EXHAUST DUCTWORK SHALL BE UNINSULATED UNLESS OTHERWISE INDICATED.
- PROVIDE FLEXIBLE DUCT CONNECTORS AT SUPPLY, RETURN, AND EXHAUST DUCTWORK CONNECTIONS TO ALL AIR HANDLING UNITS AND FANS.
- PROVIDE SHEET METAL COLLAR AT ALL LOCATIONS WHERE DUCTS PENETRATE WALLS. COLLARS SHALL BE SAME GAGE AS THE DUCTWORK.
- PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS THROUGH THE FIRE RATED PARTITIONS, BARRIERS, AND WALLS AS INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PENETRATIONS THROUGH FIRE RATED WALLS OF 3 HOURS OR MORE SHALL BE PROTECTED BY A LISTED FIRE DOOR, SATISFACTORY FOR CLASS A OPENINGS, ON BOTH SIDES OF THE WALL.
- ALL ACCESS DOORS IN THE DUCTWORK SHALL BE LOCATED TO EASILY ACCESS FIRE DAMPERS. COORDINATE CEILING ACCESS PANEL LOCATIONS WITH ALL OTHER DISCIPLINES. ALL ACCESS DOORS IN DUCTWORK FOR FIRE DAMPERS, DUCT-MOUNTED COILS, CONTROL DAMPERS, HUMIDIFIERS, DUCT SMOKE DETECTORS, AND OTHER DEVICES SHALL CONFORM TO THE FOLLOWING SCHEDULE:

DUCT WIDTH	ACCESS DOOR SIZE
UP TO 17" WIDE	16"x12" (OR AS LARGE AS POSSIBLE)
18" TO 22"	16"x16"
22" AND LARGER	18"x18"

- PROVIDE BALANCING DAMPERS IN ALL LOW PRESSURE DUCTS FOR SYSTEM BALANCING.
- PROVIDE ADJUSTABLE CONTROL DEFLECTION DEVICES AT ALL BRANCH DUCT TAKE-OFFS.
- ALL ELBOWS IN DUCTWORK SHALL BE 1-1/2" RADIUS ELBOWS, UNLESS OTHERWISE OTHERED. WHERE RECTANGULAR ELBOWS ARE INDICATED, INSTALL DOUBLE WIDTH TURNING VANES.
- INSTALL SMOKE DETECTORS (FURNISHED AND WIRED BY DIVISION 26) IN THE RETURN AIR DUCT OF EACH AIR HANDLING UNIT.
- PROVIDE THERMOSTATS, SENSORS, AND OTHER CONTROLS 48" ABOVE FINISHED FLOOR OR AS INDICATED ON THE DRAWINGS. COORDINATE WITH OTHER DISCIPLINES TO ALIGN EXACTLY WITH ADJACENT DEVICES SUCH AS LIGHT SWITCHES AND CONTROLS.
- PROVIDE ALL THERMOSTATS, SENSORS, CONTROLS, WIRING, AND CONDUIT.
- WHERE DUCTWORK CONNECTS TO EXTERIOR LOUVERS, DUCTWORK SHALL BE PRIMED AND PAINTED BLACK TO PREVENT DUCTWORK FROM BEING VISIBLE THROUGH THE LOUVER.
- ALL DUCT LAYOUT AND LOCATIONS INDICATED ARE DIAGRAMMATIC. VISIT THE SITE, BECOME FAMILIAR WITH THE EXISTING CONDITIONS, AND COORDINATE THE DUCT LAYOUT WITH ALL DISCIPLINES PRIOR TO INSTALLATION.
- SUPPORT ALL DUCTWORK, PIPING, EQUIPMENT, AND APPURTENANCES FROM THE BUILDING SUPPORT STRUCTURE AND NOT THE ROOF.
- INSULATE ALL SUPPLY DIFFUSERS AND DUCTED RETURN DIFFUSERS WITH 2" - 1# R-6 DUCT WRAP. CUT DIFFUSERS SO THERE IS A FOLDED 2" LAP ON ALL FOUR SIDES. TAPE WITH FSK TAPE WHERE INSULATED FLEX MEETS DUCT INSULATION, AND SO THERE ARE NO RAW EDGES OF FIBERGLASS.
- EQUIPMENT SHALL MEET OR EXCEED ALL REQUIREMENTS IN THE 2013 VERSION OF ASHRAE STANDARD 90.1 AND THE CURRENTLY ENFORCED NORTH CAROLINA ENERGY CONSERVATION CODE.
- ALL EQUIPMENT REMOVED FROM THE BUILDING DURING DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR DISPOSAL. CARE SHOULD BE TAKEN IN REMOVAL OF ITEMS TO MINIMIZE DAMAGE. ANY ITEM NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
- DO NOT INSTALL PIPING OR DUCTWORK OVER ANY ELECTRICAL PANEL OR SWITCHGEAR.
- PROVIDE EQUIPMENT SUPPORT PAD FOR ALL BASE MOUNTED EQUIPMENT. PAD SHALL BE 6" HIGH FOR CONDENSING UNIT AND 4" HIGH FOR ALL OTHER MECHANICAL EQUIPMENT, INCLUDING AIR HANDLING UNITS. PROVIDE 8" MINIMUM FROM EQUIPMENT TO END OF PAD ON ALL SIDES.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING, ENERGY, AND MECHANICAL CODES.
- CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO FULLY COMMISSION THE SYSTEMS SPECIFIED HEREIN IN CONJUNCTION WITH THE OWNER'S THIRD PARTY COMMISSIONING AGENT. THIS INCLUDES, BUT IS NOT LIMITED TO, FILLING OUT PRE-FUNCTIONAL TEST FORMS, FILLING OUT EQUIPMENT START UP FORMS, STARTING UP EQUIPMENT WITH FACTORY REPRESENTATIVES, PROVIDE TECHNICIANS FOR FUNCTIONAL TESTING OF ALL EQUIPMENT IN THE PROJECT SCOPE, AND CORRECTING DEFICIENCIES REVEALED DURING THE PROCESS. COMMISSIONING SHALL BE IN ACCORDANCE WITH THE 2018 NC ENERGY CODE. AT MINIMUM, THE COMMISSIONING AGENT WILL BE HIRED BY THE OWNER AND WILL COMPLETE THE APPENDIX C1 REQUIRED BY THE NC ENERGY CODE.

MECHANICAL SHEET INDEX

M0.0	MECHANICAL LEGEND AND SYMBOLS
M0.1	FIRST FLOOR MECHANICAL DEMOLITION PLAN
M1.1	FIRST FLOOR MECHANICAL PLAN
M2.1	UPPER MECHANICAL ROOM PLAN
M3.1	SEQUENCE OF OPERATIONS AND CONTROLS SCHEMATICS
M4.1	MECHANICAL DETAILS
M4.2	MECHANICAL DETAILS
M5.1	MECHANICAL SCHEDULES

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING FLEXIBLE DUCT
	FLEXIBLE DUCT
	EXISTING SUPPLY DUCT
	SUPPLY DUCT
	EXISTING RETURN DUCT
	RETURN DUCT
	EXISTING EXHAUST DUCT
	EXHAUST DUCT
	EXISTING OUTSIDE AIR INTAKE
	OUTSIDE AIR INTAKE
	BALANCING DAMPER
	EXISTING SUPPLY GRILLE
	SUPPLY GRILLE
	EXISTING RETURN GRILLE
	RETURN GRILLE
	EXISTING EXHAUST GRILLE
	EXHAUST GRILLE
	EXISTING THERMOSTAT WITH NIGHT SETBACK - SUBSCRIPT INDICATES AIR HANDLING UNIT NUMBER
	THERMOSTAT - SUBSCRIPT INDICATES AIR HANDLING UNIT NUMBER
	HUMIDITY SENSOR
	CO2 SENSOR
	REFRIGERANT PIPING
	CONDENSATE PIPING
	POINT OF DISCONNECT
	POINT OF CONNECTION
	AIRFLOW MEASURING STATION
	DUCT MOUNTED SMOKE DETECTOR.

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Code
 2018 NC ENERGY CODE: PRESCRIPTIVE X PERFORMANCE _____
 ASHRAE 90.1-2013: PRESCRIPTIVE _____ PERFORMANCE _____

- Additional Prescriptive Compliance**
- 506.2.1 More Efficient Mechanical Equipment
 - X 506.2.2 Reduced Lighting Power Density
 - 506.2.3 Energy Recovery Ventilation Systems
 - 506.2.4 Higher Efficiency Service Water Heating
 - 506.2.5 On-Site Supply of Renewable Energy
 - 506.2.6 Automatic Daylighting Control Systems

Thermal Zone 3A
 Winter Dry Bulb: 22.7 degrees F
 Summer Dry Bulb: 95.2 degrees F
 Summer Wet Bulb: 77.0 degrees F

Interior Design Conditions
 Winter Dry Bulb: 70 degrees F
 Summer Dry Bulb: 75 degrees F
 Relative Humidity: 55 %

Building Heating Load: 238.8 MBH (ADDITION ONLY)
 Building Cooling Load: 53.9 TONS (ADDITION ONLY)

Mechanical Spacing Conditioning System

Unitary

Description of Unit: } See schedules on plans and specifications
 Heating Efficiency:
 Cooling Efficiency:
 Size Category of Unit:

Boiler: Total boiler output. If oversized, state reason. N/A MBH
 Chiller: Total chiller capacity. If oversized, state reason. N/A TONS

Refer to Equipment Schedules for Unit Efficiencies.

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 (or ASHRAE 90.1-2013) as listed above.

CONSULTANT

SEAL:

3101 Popponood Court, Suite 300
 Raleigh, North Carolina 27604
 919-700-0969
 License # E-0185
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C: NCCCS #2163

NO	REVISION	DATE

SEAL:

J K F ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **MECHANICAL LEGEND, SYMBOLS, AND NOTES**

SCALE: **NO SCALE**

DRAWN: JAV

CHECKED: SWC

DATE: **5-20-2024**

PROJECT NO: **2016-20B**

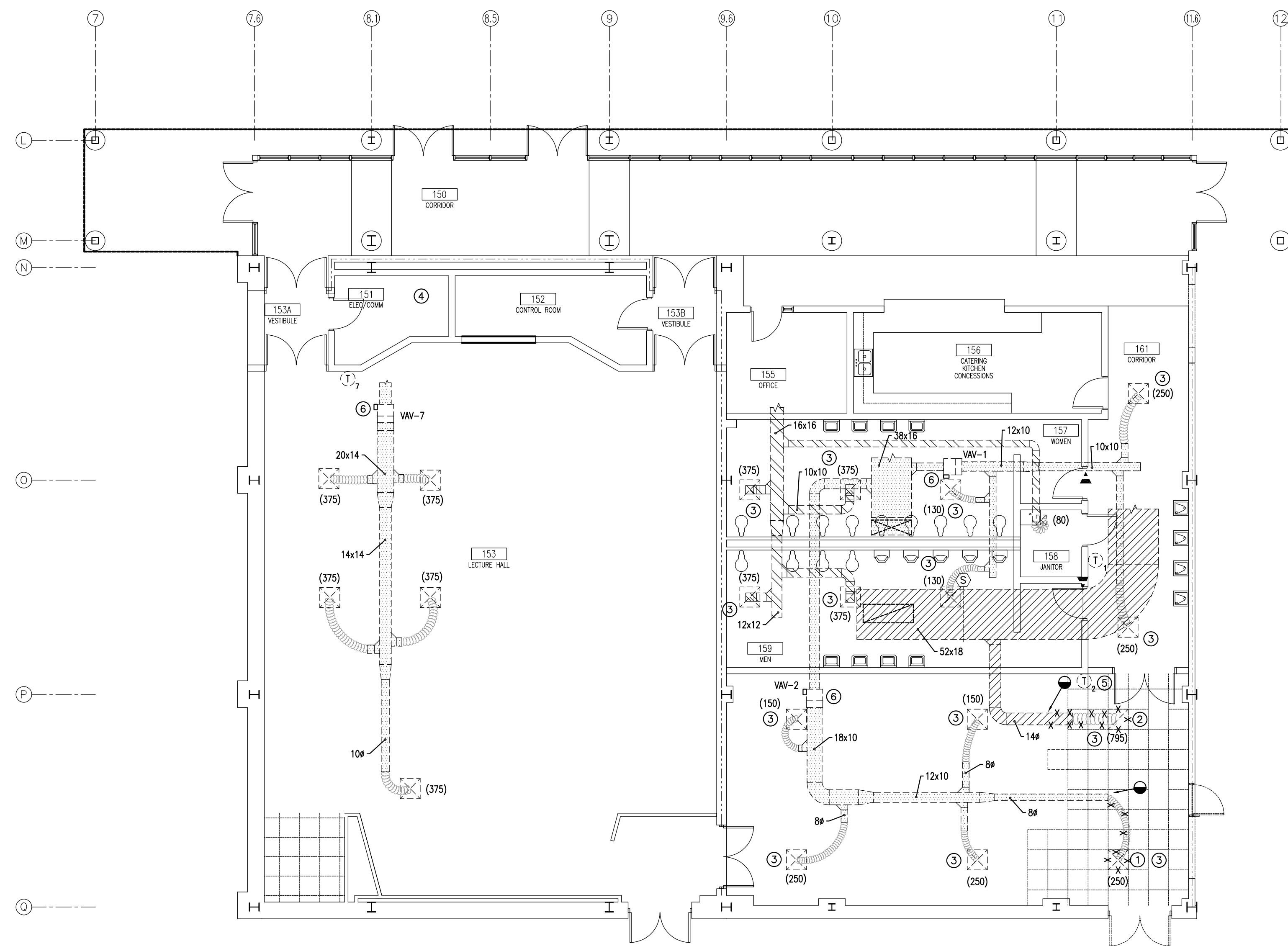
DRAWING NO: **MO.O**

WALL LEGEND

- ONE(1)-HOUR FIRE RATED WALL
- TWO(2)-HOUR FIRE RATED WALL

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① DISCONNECT EXISTING DIFFUSER AND TURN OVER TO THE OWNER. DEMO FLEX DUCT BACK TO HARD BRANCH DUCT.
- ② DISCONNECT EXISTING RETURN GRILLE AND TURN OVER TO THE OWNER. DEMO DUCT BACK TO POINT OF DISCONNECT INDICATED.
- ③ MEASURE EXISTING DIFFUSER/GRILLE WITH A FLOW HOOD DURING PRE-CONSTRUCTION TAB.
- ④ EXISTING BAS CONTROL PANEL LOCATED IN THIS ROOM.
- ⑤ RELOCATE EXISTING THERMOSTAT.
- ⑥ EXISTING VAV BOX. TAB TO BALANCE AT CONCLUSION OF WORK.



FIRST FLOOR MECHANICAL
DEMOLITION PLAN
1/8" = 1'-0" MO.I

CONSULTANT

SEAL

PROFESSIONAL ENGINEER

STEVE W. CAMPBELL

06/13/2024

pdc

Progressive Design Collaborative, Ltd.

3101 Poplarwood Court, Suite 300
Raleigh, North Carolina 27604
919.790.0909
License# C-01183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

SEAL

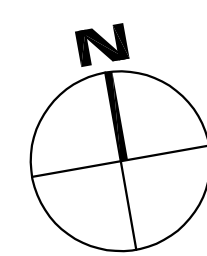
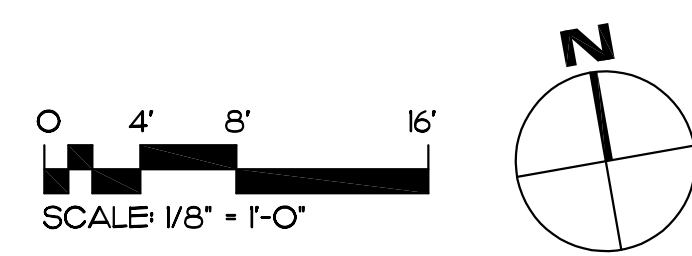
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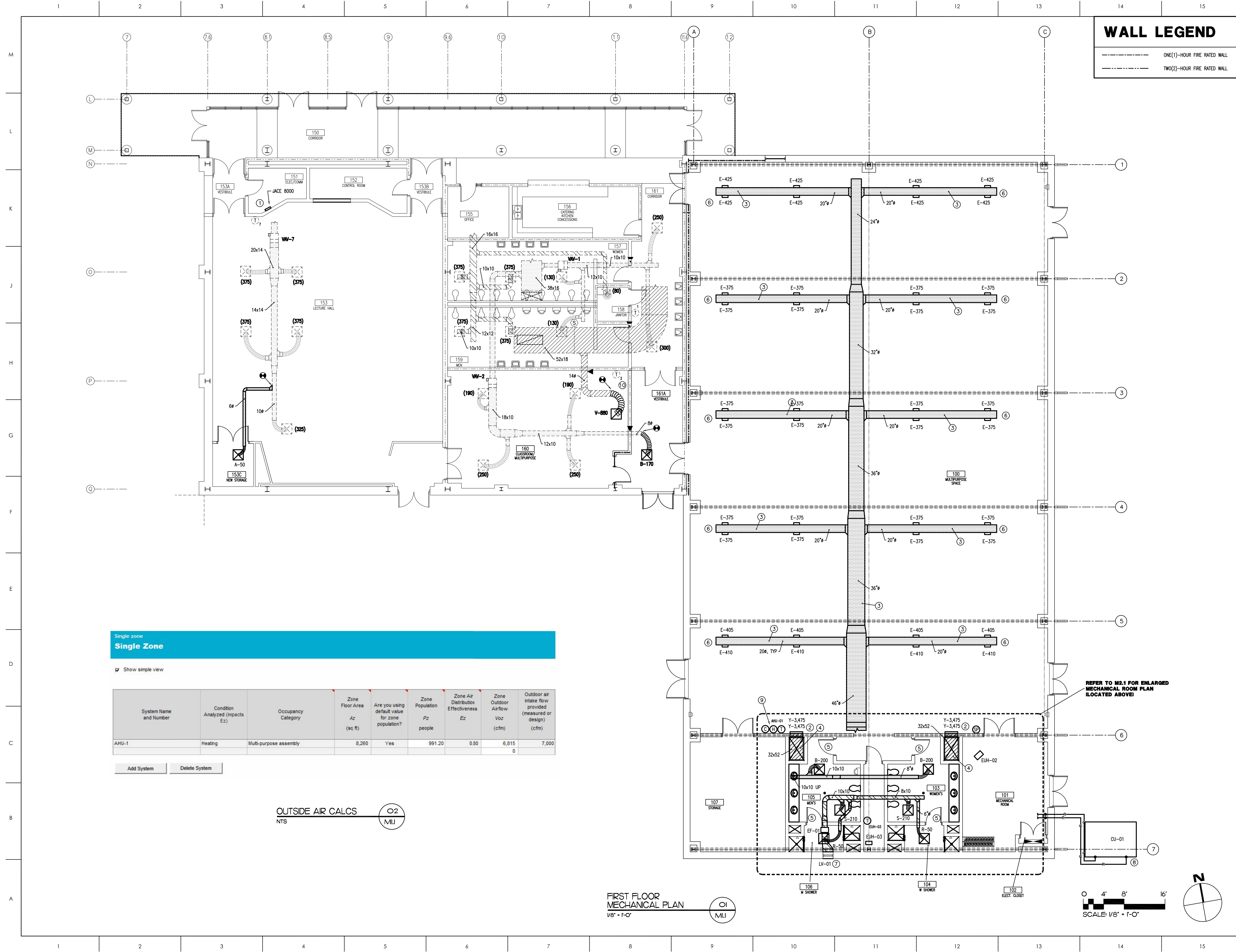
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE	
FIRST FLOOR DEMOLITION PLAN	
SCALE	DRAWING NO.
1/8"=1'-0"	MO.I
DRAWN	JAV
CHECKED	SWC
DATE	5-20-2024
PROJECT NO.	2016-20B





WALL LEGEND

	ONE(1)-HOUR FIRE RATED WALL
	TWO(2)-HOUR FIRE RATED WALL

- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- PROVIDE TRIDIUM JACE 8000 CONTROLLER NEXT TO EXISTING DDC PANEL IN ELECTRICAL ROOM. BAS CONTRACTOR SHALL MISWIRE ALL EXISTING CONTROLLERS AND POINTS IN THIS BUILDING FROM THE JACE IN THE TECHNOLOGIES BUILDING TO THIS JACE. PROVIDE SOFTWARE LICENSE SUFFICIENT FOR TOTAL POINTS IN SCOPE OF WORK.
 - TWO 60" TALL GRILLES STACKED. MOUNT BOTTOM EDGE OF BOTTOM GRILLE 8" AFF. CFMS LISTED ARE AT DCV OUTSIDE AIR. TAB TO ALSO BALANCE AT MAXIMUM OUTSIDE AIR.
 - DOUBLE WALL SPIRAL DUCTWORK WITH MILL PHOSPHATIZED "PAINT GRIP" FINISH. RUN IN WEBBING OF TRUSSES.
 - RETURN DUCT SHALL BE DOUBLE-WALL RECTANGULAR WITH 1.5" ELASTOMERIC FOAM INSULATION BETWEEN PANELS. INTERNAL WALL SHALL BE PERFORATED, EXCEPT FITTINGS.
 - 1" DOOR UNDERCUT. COORDINATE WITH ARCHITECT'S DOOR SCHEDULE.
 - MOUNT DIFFUSERS AT 4 AND 8 O'CLOCK POSITIONS.
 - REFER TO ARCHITECTURAL ELEVATIONS FOR LOUVER HEIGHT.
 - REFRIGERANT PIPING SHOW IS SIMPLIFIED AND SCHEMATIC, INTENDING TO SHOW GENERAL ROUTING ONLY. REFER TO MANUFACTURER'S PIPING DIAGRAM. BASIS OF DESIGN PIPING IS 2-1/8" FOR SUCTION, 1-1/8" FOR LIQUID, AND 7/8" FOR REHEAT. PIPING SIZES SHALL BE VERIFIED WITH THE PARTICULAR MANUFACTURER.
 - PROVIDE WIRE GUARDS (NOT PLASTIC) OVER ALL CONTROL DEVICES.
 - RELOCATE EXISTING THERMOSTAT.

Single zone
Single Zone

Show simple view

System Name and Number	Condition Analyzed (Impacts Ez)	Occupancy Category	Zone Floor Area Az (sq ft)	Are you using default value for zone population?	Zone Population Pz people	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow Voz (cfm)	Outdoor air intake flow provided (measured or design) (cfm)
AHU-1	Heating	Multi-purpose assembly	8,260	Yes	991.20	0.50	6,815	7,000

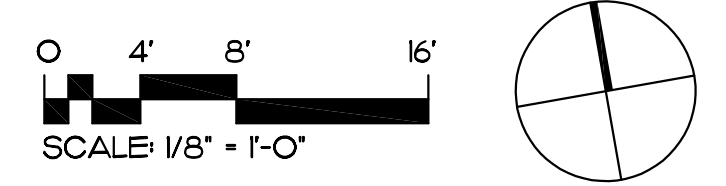
Add System Delete System

OUTSIDE AIR CALCS
NTS

○2
M.I.

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

○1
M.I.



CONSULTANT

SEAL

pdc
Progressive Design Collaborative, Ltd.
3101 Popplewood Court, Suite 300
Raleigh, North Carolina 27604
919-700-0909
License # C-0183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

SEAL

J K F
ARCHITECTURE

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

SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
FIRST FLOOR
DUCTWORK AND PIPING PLAN

SCALE 1/8"=1'-0"	DRAWING NO.
DRAWN JAV	M.I.
CHECKED SWC	
DATE 5-20-2024	
PROJECT NO. 2016-20B	

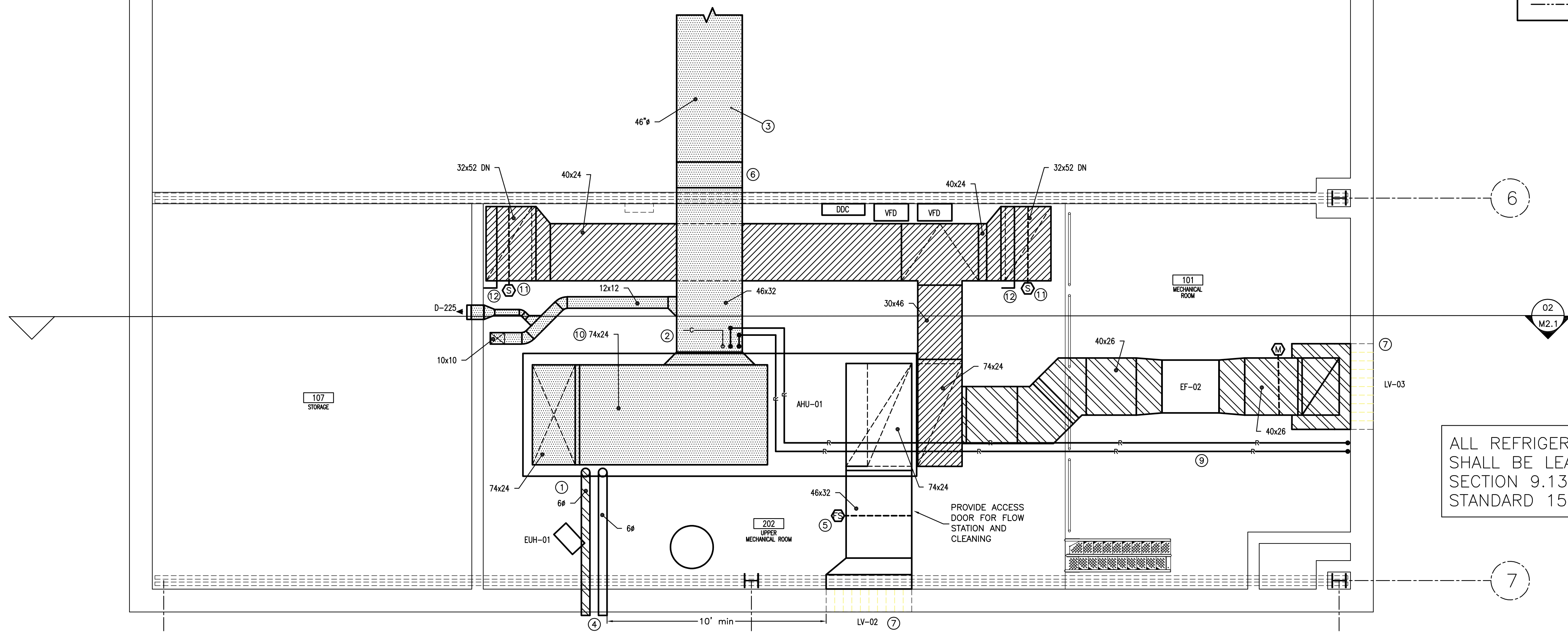
WALL LEGEND

- ONE(1)-HOUR FIRE RATED WALL
- TWO(2)-HOUR FIRE RATED WALL

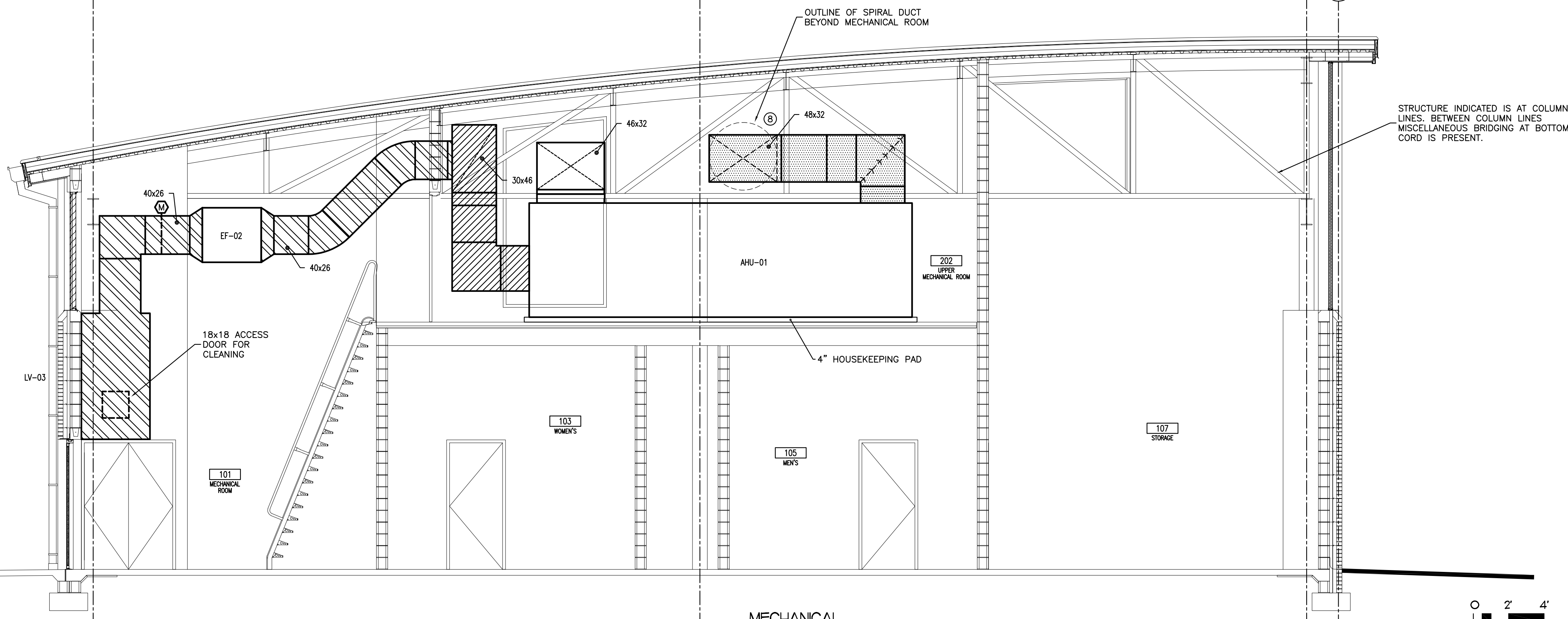
NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① PROVIDE 4" CONCRETE PAD UNDER UNIT EXTENDING AT LEAST 8" BEYOND FOOTPRINT IN EACH DIRECTION. PROVIDE STAINLESS STEEL AUXILIARY DRAIN PAN UNDER UNIT.
- ② EXTEND CONDENSATE TO FLOOR DRAIN AND TERMINATE WITH AIR GAP. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATION.
- ③ DUCT SHALL RUN ABOVE BOTTOM CORD OF JOISTS IN WEBBING. COORDINATE WITH GENERAL CONTRACTOR AND STEEL SHOP DRAWINGS.
- ④ FLUE VENT AND COMBUSTION AIR INTAKE FROM GAS FURNACE TO EXTERIOR WALL. MAINTAIN SEPARATION PER NC FUEL GAS CODE. REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHTS.
- ⑤ AIR FLOW MEASURING STATION FOR OUTSIDE AIR. EBTRON OR EQUIVALENT.
- ⑥ TRANSITION FROM RECTANGULAR DOUBLE-WALL DUCTWORK TO DOUBLE-WALL SPIRAL. PROVIDE ESCUTCHEON AT WALL.
- ⑦ REFER TO ARCHITECTURAL ELEVATIONS FOR LOUVER HEIGHT.
- ⑧ ROUND DUCT SHOWN BEYOND MECHANICAL ROOM WALL FOR REFERENCE.
- ⑨ REFRIGERANT LINES SHOWN ARE SCHEMATIC ONLY AND INTENDED TO SHOW GENERAL ROUTING. REFER TO MANUFACTURER'S PIPING DIAGRAM AND CONFIRM SIZES WITH MANUFACTURER OF THE PARTICULAR EQUIPMENT. BASIS OF DESIGN PIPING IS 2-1/8" FOR SUCTION, 1-1/8" FOR LIQUID, AND 7/8" FOR REHEAT. PIPING SIZES SHALL BE VERIFIED WITH THE PARTICULAR MANUFACTURER.
- ⑩ PROVIDE DOUBLE-WALL PLENUM WITH PERFORATED INNER LINER. PLENUM SHALL BE FULL SIZE OF UNIT'S SUPPLY AIR OPENING.
- ⑪ PROVIDE SMOKE DETECTOR AT 2' AFF WITH ACCESS DOOR.
- ⑫ PROVIDE BALANCING DAMPER AT 42" AFF OF PLATFORM

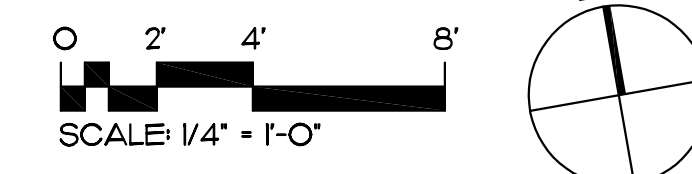
ALL REFRIGERANT PIPING SHALL BE LEAK TESTED PER SECTION 9.13 OF ASHRAE STANDARD 15-2022.



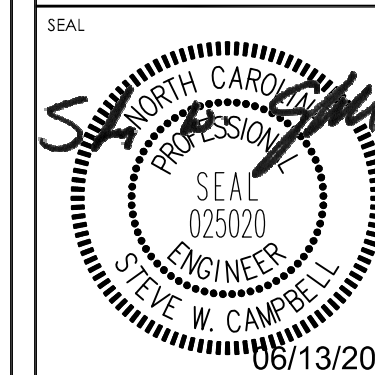
MECHANICAL ROOM PLAN
1/4" = 1'-0"



MECHANICAL ROOM SECTION
1/4" = 1'-0"



CONSULTANT



KEY PLAN



SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE



625 LYNDDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
 CLINTON, NC

DRAWING TITLE
MECHANICAL ROOM PLAN AND SECTION

SCALE	1/4"=1'-0"	DRAWING NO.	M2.1
DRAWN	JAV		
CHECKED	SWC		
DATE	5-20-2024		
PROJECT NO.	2016-20B		

SEQUENCE OF OPERATIONS

GENERAL ZONING/SCHEDULING

- A. EACH AHU IS A ZONE THAT CAN BE INDIVIDUALLY ASSIGNED AN OPERATION SCHEDULE OR OPERATE IN CONJUNCTION WITH OTHER ZONES AS DEFINED BY THE OWNER. IF AN ASSOCIATED OVERRIDE BUTTON IS PUSHED DURING NORMALLY OCCUPIED TIMES, NO CHANGE IN OPERATION WILL OCCUR. IF ANY ASSOCIATED OVERRIDE BUTTON IS PUSHED DURING NORMALLY UNOCCUPIED TIMES, BOTH THE AHU AND CENTRAL HEATING AND COOLING SOURCE WILL OPERATE IN THE OCCUPIED MODE FOR THE PROGRAMMED TIME DURATION.
- B. SCHEDULING
 - 1. REGULAR SCHEDULING: EACH ZONE HAS A REGULAR, DAY-TO-DAY SCHEDULE OF OCCUPIED HOURS. THE HVAC EQUIPMENT IN A ZONE WILL START EARLY ENOUGH SO THAT THE SPACE TEMPERATURES IN THE ZONE ARE AT SETPOINT BY THE BEGINNING OF OCCUPIED HOURS. THE START TIME IS AUTOMATICALLY ADJUSTED WITH CHANGES IN OUTSIDE AIR TEMPERATURE. START/STOP OPTIMIZATION ALGORITHMS SHALL BE USED.
 - 2. HOLIDAYS: HOLIDAYS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE. DURING SCHEDULED HOLIDAYS, THE ZONES REMAIN IN UNOCCUPIED MODE.
 - 3. SPECIAL EVENT SCHEDULING: SPECIAL EVENTS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE DURING WHICH A ZONE WILL OPERATE IN OCCUPIED MODE REGARDLESS OF THE ZONE'S REGULAR SCHEDULE OR SCHEDULED HOLIDAYS.
 - 4. BAS OPERATOR OVERRIDES: THE BUILDING MANAGEMENT SYSTEM OPERATOR CAN OVERRIDE THE ENTIRE BUILDING EITHER ON OR OFF AT SINGLE POINTS IN THE GLOBAL CONTROL MODULE'S SOFTWARE.

- I) AIR HANDLERS
 - A) MODE CONTROL OPTIONS
 - 1) SINGLE ZONE VARIABLE AIR VOLUME (SZVAV)
 - (a) MODE DETERMINED BY SPACE AND/OR AMBIENT CONDITIONS (GREATER THAN 20% O/A)
 - B) SUPPLY FAN OPERATION
 - 1) THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED TIMES AND SHALL BE OFF DURING UNOCCUPIED TIMES PER A TIME OF DAY AND 365 DAY A YEAR SCHEDULE GIVEN BY THE OWNER. DETERMINE FAN STATUS THROUGH THE VARIABLE FREQUENCY DRIVE AND CURRENT SENSOR. WHEN FAN FAILS TO START AS COMMANDED, SIGNAL ALARM.
 - 2) UNIT SHALL OPERATE AS SZVAV
 - (a) UNIT SHALL START AT MINIMUM AND MODULATE SPEED HIGHER BASED ON MODE AND CONTROL SETPOINTS. RAMP RATE FOR COOLING SHOULD BE SLOWER THAN HEATING MODES.

- C) COOLING MODE
 - 1) AS SPACE CONDITIONS RISE ABOVE THE DEFINED MODE SETPOINT, THE UNIT WILL ENTER COOLING MODE AND OPERATE COOLING CAPACITY TO CONTROL SETPOINT. AS THE SPACE TEMPERATURE RISES ABOVE THE ADJUSTABLE CONTROL SETPOINT, THE CONTROLLER SHALL ENERGIZE COOLING STAGE(S).
 - 2) TO STAGE UP THE EXTRA COMPRESSOR(S), THE SAT NEEDS TO BE ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 100% FOR A PERIOD OF TIME EQUAL TO THE STAGE UP DELAY. ONCE A FIXED COMPRESSOR IS ENABLED THE DIGITAL COMPRESSOR SIGNAL WILL GO TO 10% AND MODULATE UP AS NEEDED. THIS WILL REPEAT AS ADDITIONAL FIXED COMPRESSORS ARE STAGED UP.
 - 3) FOR COMPRESSORS TO STAGE ON, MINIMUM OFF TIMES (ADJ.) MUST BE SATISFIED AS WELL AS STAGE UP DELAYS (ADJ.).
 - 4) TO STAGE DOWN THE EXTRA COMPRESSOR(S), THE SAT NEEDS TO BE BELOW THE ACTIVE SUPPLY AIR COOLING SETPOINT MINUS THE COOLING STAGE CONTROL WINDOW AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 0% FOR A PERIOD OF TIME EQUAL TO THE STAGE DOWN DELAY. ONCE A FIXED COMPRESSOR STAGES OFF THE DIGITAL COMPRESSOR WILL GO TO 100% AND MODULATE DOWN AS NEEDED. THIS WILL REPEAT AS ADDITIONAL FIXED COMPRESSORS STAGE OFF.
 - 5) FOR COMPRESSORS TO STAGE DOWN, MINIMUM RUN TIMES (ADJ.) MUST BE SATISFIED AS WELL AS STAGE DOWN DELAYS (ADJ.). THE DIGITAL COMPRESSOR IS ALWAYS THE LAST COMPRESSOR TO BE DEACTIVATED.

- D) HEATING MODE
 - 1) AS SPACE CONDITIONS GO BELOW THE DEFINITE MODE SETPOINT, THE UNIT WILL ENTER HEATING MODE AND OPERATE HEATING TO CONTROL SETPOINT. AS THE SPACE TEMPERATURE RISES ABOVE THE ADJUSTABLE CONTROL SETPOINT, THE CONTROLLER SHALL ENERGIZE HEATING STAGE(S).
 - 2) THE NATURAL GAS BURNER SHALL BE THE FIRST STAGE HEATING AND SHALL BE ENGAGED TO OPERATE WHEN THE DISCHARGE AIR TEMPERATURE FALLS BELOW SETPOINT.
 - 3) THE FAN SPEED SHALL BE ADJUSTED BETWEEN THE MINIMUM CFM AND THE MAXIMUM HEATING CFM BASED ON THE SPACE LOAD. SUFFICIENT RAMP TIME SHOULD BE ALLOWED FOR MAXIMUM EFFICIENCY WITHOUT LOSING SPACE CONDITIONS BY A SIGNIFICANT MARGIN.
 - 4) IF THE NATURAL GAS BURNER IS AT MAXIMUM CAPACITY AND THE DISCHARGE AIR SETPOINT IS NOT SATISFIED, THE ELECTRIC AUXILIARY HEAT SHALL BE ENABLED AS STAGE 2 HEAT. THE SOR ELECTRIC HEAT SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE UP TO A MAXIMUM OF 85°F OR 20°F ABOVE SPACE SETPOINT BASED ON THE DEVIATION FROM SPACE SETPOINT.
 - 5) THE SEQUENCE SHALL UNWIND IN REVERSE.

- E) DEHUMIDIFICATION MODE
 - 1) DEHUMIDIFICATION MODE WILL BE ENERGIZED IF SPACE RELATIVE HUMIDITY IS ABOVE SETPOINT (60% ADJ.) FOR A MINIMUM OF 10 MINUTES.
 - 2) IN DEHUMIDIFICATION MODE, THE COMPRESSOR(S) SHALL MODULATE TO ACHIEVE THE EVAPORATOR COIL LEAVING TEMPERATURE SETPOINT. ELECTRIC REHEAT (VA ELECTRIC HEATING COIL) IS THEN USED TO CONTROL TO THE MODE (SPACE CONTROL) SETPOINT.
 - (a) IF IN COOLING MODE AND DEHUMIDIFICATION MODE, THE EVAPORATOR TEMPERATURE WILL BE CONTROLLED TO THE COIL TEMPERATURE SETPOINT (-53°F ADJ.) AND ELECTRIC HEATING COIL REHEAT WILL BE USED TO CONTROL THE SUPPLY AIR TEMPERATURE TO MAINTAIN THE MODE CONTROL SETPOINT.
 - (b) SAT MACHINES - EVAPORATOR COIL TEMP WILL BE MAINTAINED FOR DEHUMIDIFICATION AND HOT GAS REHEAT WILL CONTROL THE SAT. FOR ADJUSTABLE SAT CONTROL, SAT WILL BE ADJUSTED TO MAINTAIN THE CONTROL TEMPERATURE SETPOINT.
 - (c) SINGLE ZONE VAV - SAME PROCEDURE WILL APPLY WITH THE ADDITION OF THE FAN SPEED THROUGH AN INDEPENDENT LOOP. SUFFICIENT RAMP TIME SHOULD BE ALLOWED FOR MAXIMUM EFFICIENCY WITHOUT LOSING SPACE CONDITIONS BY A SIGNIFICANT SPREAD.

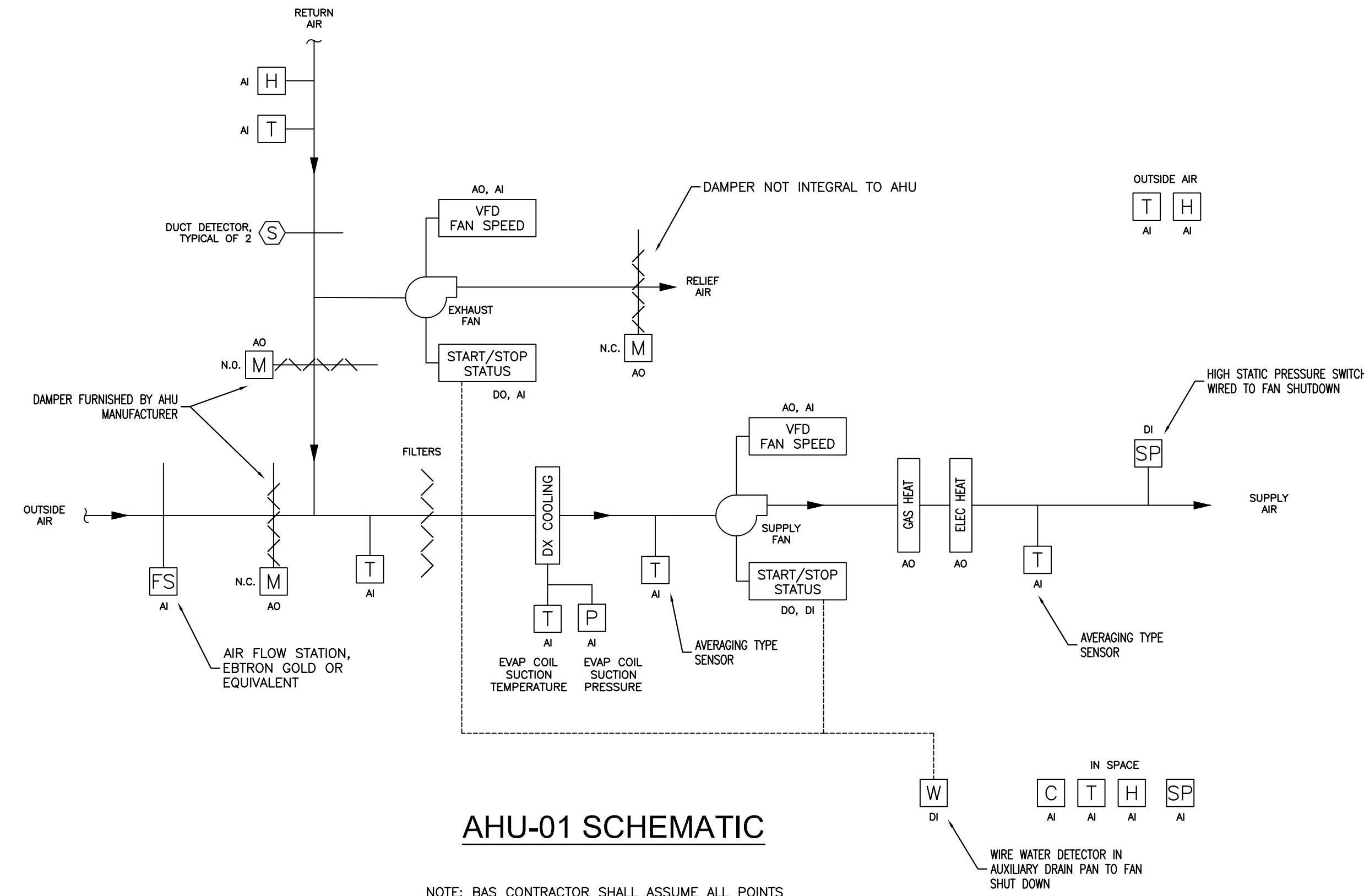
- F) ECONOMIZING MODE
 - 6) AS AMBIENT CONDITIONS ALLOW, THE ECONOMIZER WILL ACTIVATE. THE ECONOMIZER BECOMES THE 1ST STAGE OF COOLING. ECONOMIZER SHALL BE ENABLED IF OUTSIDE ENTHALPY IS BELOW 28 BTU/LB, OUTSIDE AIR TEMPERATURE IS BELOW RETURN AIR TEMPERATURE, AND UNIT IS NOT IN HEATING MODE. THE ECONOMIZER DAMPER SHALL BE MODULATED TO MAINTAIN A MIXED AIR TEMPERATURE OF 2°F BELOW THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT. ONCE OA DAMPER IS FULLY OPEN, ADDITIONAL COOLING STAGES CAN BE UTILIZED TO ACHIEVE THE MODE CONTROL SETPOINT. ALLOW SUFFICIENT TIME FOR RAMP. THERE SHALL BE A 15 MINUTE DELAY (ADJ.) BETWEEN ENTERING AND EXITING ECONOMIZER MODE.

- G) CO2 OPERATION
 - 1) AS THE CO2 LEVEL RISES ABOVE DESIRED SET POINT, THE ECONOMIZER DAMPER WILL OPEN. THE ECONOMIZER WILL MODULATE BASED ON CO2 SETPOINT (+/-200 PPM ADJ.) AND PROPORTIONAL RANGE (+/-200 PPM ADJ.). DAMPERS START AT MINIMUM POSITION AND WILL MODULATE OPEN WHEN ABOVE SETPOINT. THE DAMPER WILL CONTINUE TO OPEN UP TO THE MAXIMUM POSITION WHEN CO2 IS ABOVE SETPOINT PLUS PROPORTIONAL RANGE. THIS MAY NOT BE 100% AND SHOULD BE SET TO THE DESIGN CONDITION MAXIMUM FOR THE UNIT IN CONJUNCTION WITH TAB.

- H) EXHAUST (RELIEF) FAN OPERATION
 - 1) THE RELIEF FAN SHALL BE ENABLED IN OCCUPIED MODE ANYTIME THE SUPPLY FAN IS OPERATING AND THE BUILDING PRESSURE RELATIVE TO THE OUTSIDE IS GREATER THAN +0.07" w.g. A MINIMUM DAMPER POSITION SHOULD BE SET TO ENABLE THE EXHAUST FAN OPERATION. BELOW THIS MINIMUM, THE EXHAUST FAN SHALL BE OFF. MINIMUM SPEED ON THE EXHAUST FAN IS 18 Hz, SO BALANCING IS REQUIRED TO SET THE DAMPER ON/OFF POSITION. ONCE BUILDING PRESSURE RISES ABOVE +0.07" w.g. THE EXHAUST FAN SHALL START AT MINIMUM SPEED. THE EXHAUST FAN SHALL THEN MODULATE ABOVE 20Hz TO MAINTAIN THE CONTROL SETPOINT OF +0.05" w.g. ONCE PRESSURE FALLS BELOW +0.03" w.g. THE FAN SHALL TURN OFF. PROVIDE TIME AVERAGING OF BUILDING PRESSURE TO SMOOTH RELIEF FAN OPERATION. ALLOW SUFFICIENT DEAD BAND TO ENSURE LONGEVITY OF MOTOR; THIS SHALL BE ESTABLISHED DURING TAB.

- I) CONDENSER FAN CONTROL
 - 1) THE CONDENSER FAN IS COMMANDED ON WHEN THE FIRST COMPRESSOR IS ENABLED. THE CONDENSER PERFORMANCE IS ADJUSTED TO CONTROL PROPER HEAD PRESSURE DEPENDING ON COOLING OR DEHUMIDIFICATION MODE. THE MODULATION WILL BE SET TO MINIMUM SPEED/FLOW WHEN COMPRESSORS ARE CALLED AND BE ALLOWED TO GO TO FULL SPEED/FLOW IF ABOVE HIGH PRESSURE SETPOINT. TYPICAL SETPOINTS FOR HEAD PRESSURE ARE COOLING MODE 340PSI AND DEHUMIDIFICATION 375PSI. VERIFY WITH MANUFACTURER.
 - (a) IN THE COOLING MODE THE SPEED OF THE CONDENSER FAN WILL BE ADJUSTED BETWEEN 0% AND 100% TO MAINTAIN THE DESIRED HEAD PRESSURE SETPOINT.
 - (b) IN HEAT PUMP HEATING MODE THE CONDENSER FAN WILL OPERATE AT 100%.

- J) SAFETIES
 - 1) UPON A SIGNAL FROM THE DUCT SMOKE DETECTOR VIA A HARDWIRED RELAY FROM THE FIRE ALARM CONTROL PANEL, THE AHU FANS SHALL SHUTDOWN. SHUTDOWN SHALL BE WIRED SUCH THAT FANS TURN OFF EVEN IF VFDs ARE IN HAND OPERATION. SUPPLY AND RELIEF FAN SHALL SHUT DOWN IF THE DUCT HIGH STATIC SWITCH IS ACTIVATED (HARDWIRED INTERLOCK) SUPPLY AND RELIEF FAN SHALL SHUT DOWN IF WATER DETECTOR IN AUXILIARY DRAIN PAN IS ACTIVATED.
 - UNIT SHALL BE EQUIPPED WITH A REFRIGERANT DETECTION SYSTEM (RDS) TO DETECT LEAKED REFRIGERANT WITHIN THE CONDITIONED AIRSTREAM. THE SYSTEM SHALL MEET THE REQUIREMENTS OF ASHRAE 15 7.6.2.5. THE RDS SYSTEM CONSISTS OF A MITIGATION BOARD AND ONE OR MORE REFRIGERANT SENSORS IN THE CONDITIONED AIRSTREAM. IN THE EVENT OF A REFRIGERANT LEAK THAT EXCEEDS HIGH PRESSURE SETPOINT, TYPICAL, THE RDS SENSORS WILL SEND AN ALARM TO THE MITIGATION BOARD. IN THE EVENT OF AN ALARM, THE COMPRESSOR OPERATION IS DISABLED, THE ELECTRIC AND GAS HEAT ARE DISABLED, AND THE INDOOR BLOWER IS ENABLED TO PROVIDE CIRCULATION AIRFLOW IN ACCORDANCE WITH UL 60335-2-40. THE BOARD WILL REMAIN IN ALARM STATE FOR FIVE MINUTES AFTER RDS SENSOR HAS CLEARED THE ALARM BELOW THE CONCENTRATION SETPOINT.



AHU-01 SCHEMATIC

NOTE: BAS CONTRACTOR SHALL ASSUME ALL POINTS INDICATED ABOVE ARE HARDWIRED.

EXHAUST FAN CONTROL (OTHER THAN EF-02)

EXHAUST FANS SHALL BE CONTROLLED BY THE ENERGY MANAGEMENT SYSTEM.

OCCUPIED PERIOD:

- A. FANS SHALL OPERATE VIA METHOD AS LISTED IN SCHEDULE. VIA BAS, T-STAT, ETC.

UNOCCUPIED PERIOD:

- A. FANS ARE OFF.

PREPARATORY PERIOD:

- A. EXHAUST FANS SHALL BE INTERLOCKED TO OPERATE WITH SPECIFIC CORRESPONDING AIR HANDLING UNITS.

UNIT HEATERS

- A. UNIT HEATER: BUILT-IN THERMOSTAT SHALL MAINTAIN ITS SET POINT OF 55°F. BY STARTING THE UNIT HEATER. ONCE THE UNIT HEATER IS ENERGIZED, IT WILL RUN FOR AT LEAST FIVE (5) MINUTES TO AVOID SHORT CYCLING. NO BUILDING MANAGEMENT SYSTEM MONITORING OR CONTROL IS REQUIRED FOR UNIT HEATERS.

BAS OVERRIDE

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

TREND LOGS

- A. PROVIDE TREND LOGS FOR CONDENSING UNIT, FAN, AIR HANDLING UNIT OPERATION, AND ANY OTHER EQUIPMENT.
- B. TREND ALL TEMPERATURE, PRESSURE AND EQUIPMENT CHANGES OF STATE.

MAINTENANCE MANAGEMENT

THE DDC SYSTEM SHALL MEASURE AND RECORD RUN TIME FOR ALL START/STOP POINTS IN THE SYSTEM. BASED UPON THE ACCUMULATED RUN TIME PROVIDE MAINTENANCE MESSAGES ON THE INTERVAL RECOMMENDED BY THE EQUIPMENT MANUFACTURERS. ANY DIGITAL INPUT POINT THAT IS USED FOR MAINTENANCE PURPOSES (I.E. DIRTY FILTER) SHALL ALSO GENERATE A MAINTENANCE MESSAGE. ALL MAINTENANCE MESSAGES ARE TO BE SENT VIA EMAIL TO COUNTY'S FACILITY MAINTENANCE DIRECTOR OR SOMEONE ELSE OF HIS CHOOSING.

TROUBLE ALARMS

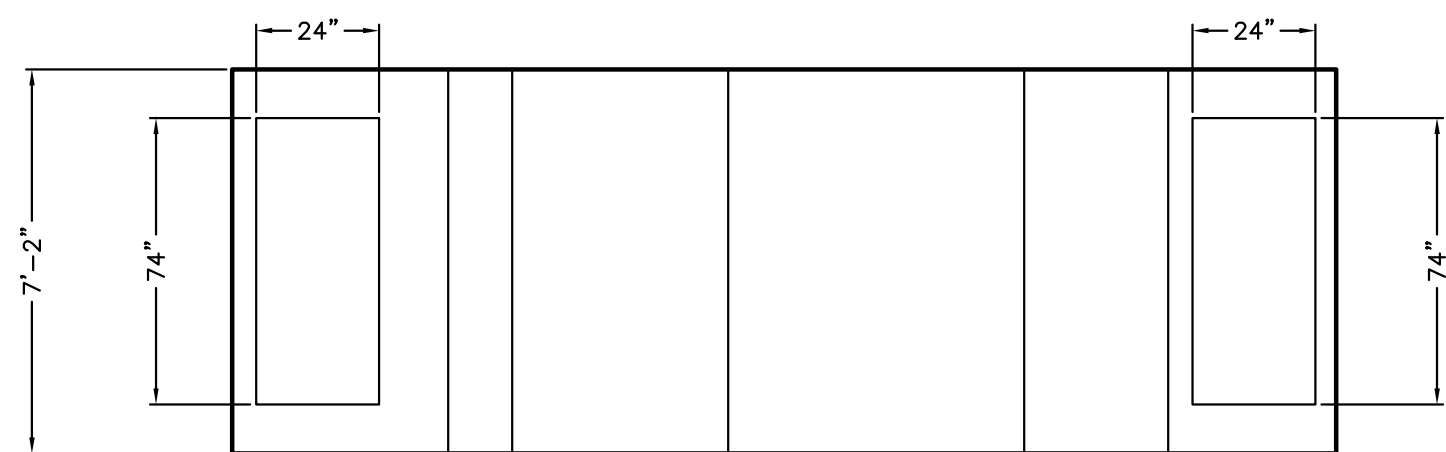
THE CONTROLS SUBCONTRACTOR SHALL ESTABLISH A TROUBLE HIGH AND TROUBLE LOW ALARM LIMIT FOR EACH ANALOG INPUT, EQUIPMENT STATUS AND ANNUNCIATE A CORRESPONDING ALARM MESSAGE AT THE CONTROLS FRONT END.

MODIFICATION

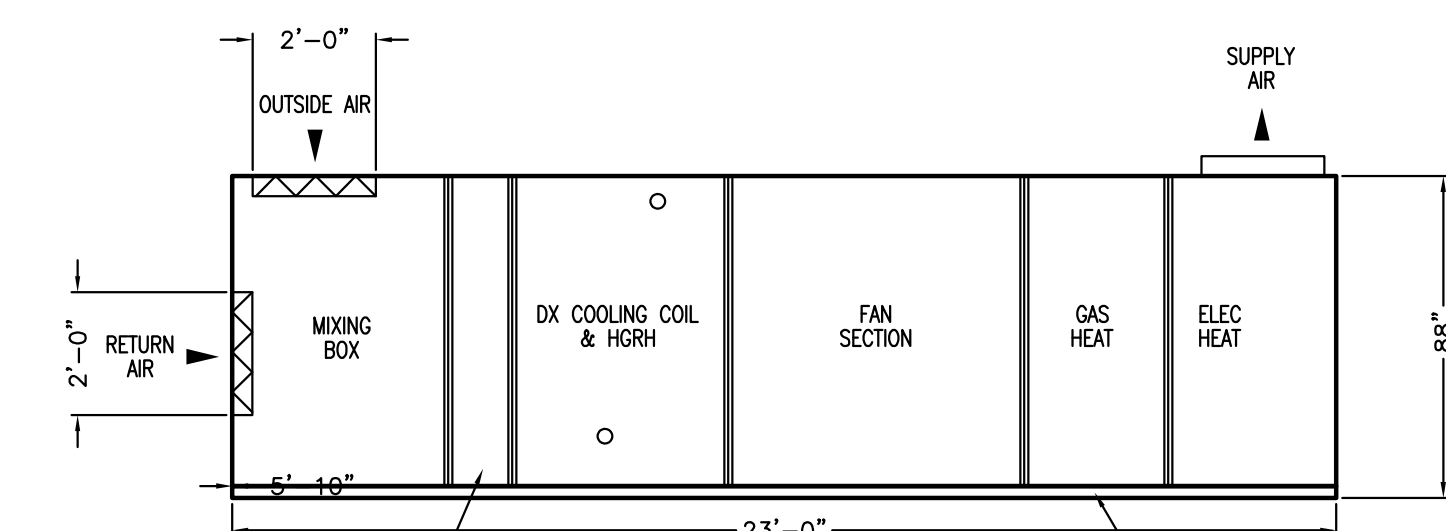
ALL SOFTWARE SETPOINTS, LIMITS, ALARMS, MESSAGES, SCHEDULES, SEQUENCES, ETC., AS SPECIFIED HEREIN ARE TO PROVIDE AN INITIAL SETUP OF THE CONTROL SYSTEM. THE CONTROL SUBCONTRACTOR SHALL PROVIDE SOFTWARE CUSTOMIZATIONS THAT MAY BE REQUIRED TO "TUNE" THE DDC SYSTEM TO ACCURATELY RESPOND TO ACTUAL BUILDING PARAMETERS. FURTHER, THESE SOFTWARE FUNCTIONS SHALL BE READILY MODIFIABLE BY THE OWNER'S PERSONNEL AS CHANGES IN BUILDING OPERATION DICTATE.

LIGHTING CONTROL

- A. BAS CONTRACTOR SHALL PROVIDE OUTPUTS AS REQUIRED TO CONTROL LIGHTING RELAYS AND CONTACTORS. BAS CONTRACTOR SHALL PROVIDE TIMED OVERRIDE SWITCHES FOR EACH AREA SERVED (MAXIMUM 2-HOUR TIME LIMIT). REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR OVERRIDE SWITCH REQUIREMENTS AND LOCATIONS.
- B. PROVIDE OUTPUTS FOR CONTROLLING CONTACTORS FOR INTERIOR LIGHTS: REFER TO ELECTRICAL DRAWINGS FOR REQUIREMENTS.
- C. PROVIDE OUTPUTS FOR CONTROLLING CONTACTORS FOR EXTERIOR LIGHTS: REFER TO ELECTRICAL DRAWINGS FOR REQUIREMENTS.



AHU PLAN



AHU ELEVATION

CONSULTANT

pdc
Progressive Design Collaborative, LLC
3101 Popponesset Court, Suite 300
Raleigh, North Carolina 27604
919-793-0909
License# E-0183
PDC #24010

SEAL
06/13/2024

KEY PLAN



NO	REVISION	DATE

SCO ID #17-16813-01C; NCCCS #2163

NO REVISION DATE

J K F
ARCHITECTURE

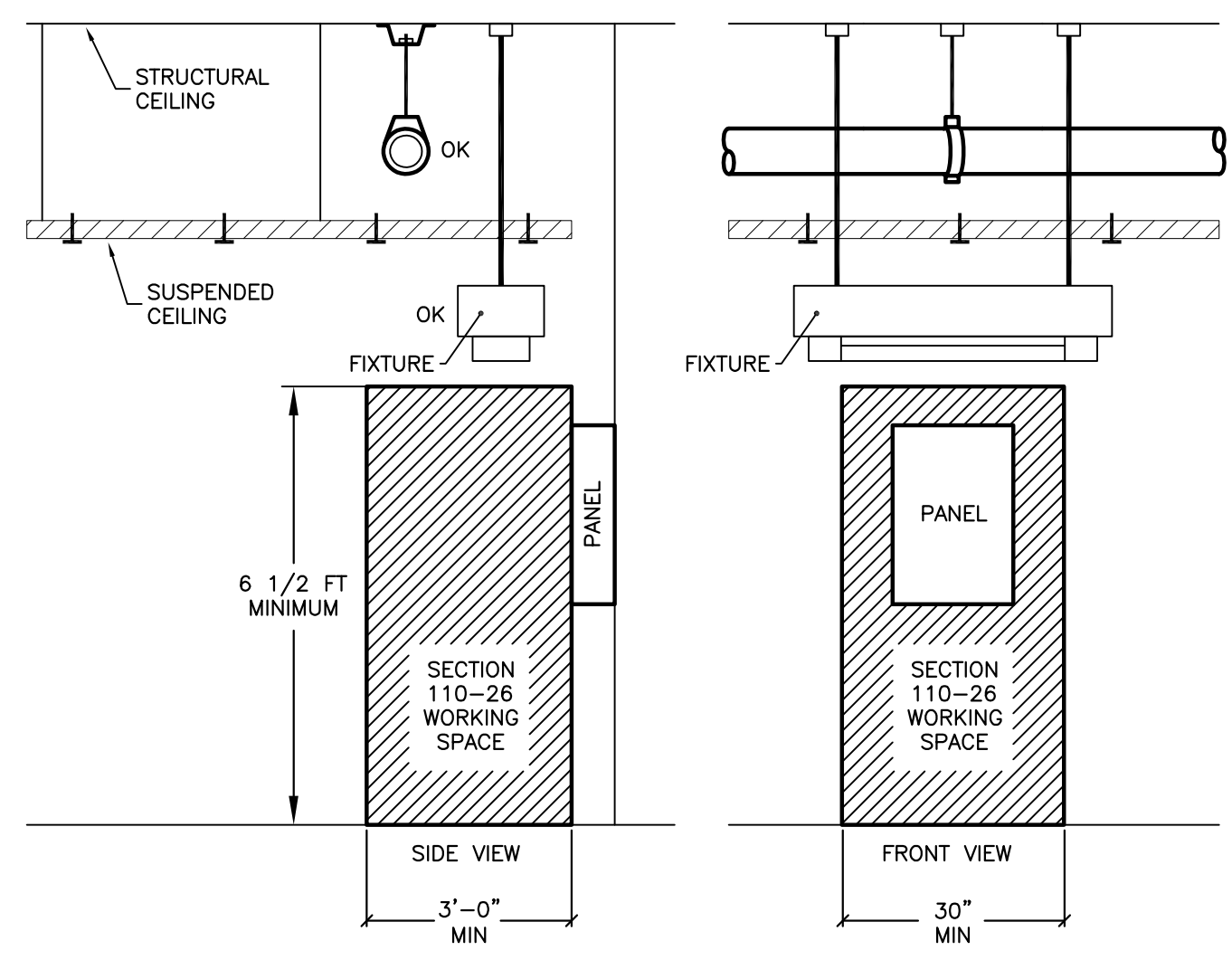
625 LYNMADDE CT, SUITE F, GREENVILLE, NC 27658 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE
SEQUENCE OF OPERATIONS CONTROLS SCHEMATICS

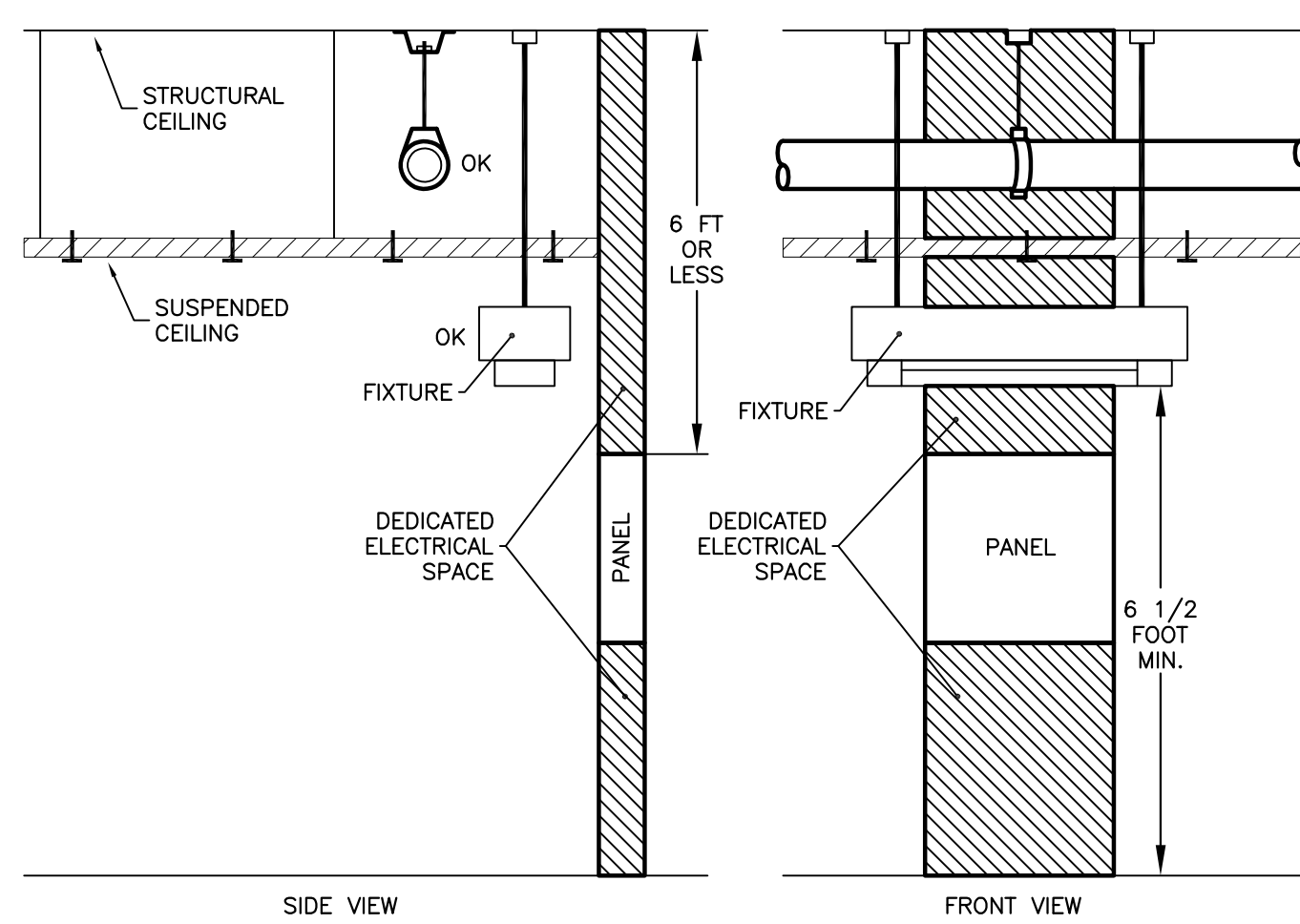
SCALE	NTS	DRAWING NO.	
DRAWN	JAV		
CHECKED	SWC		
DATE	5-20-2024		
PROJECT NO.	2016-20B		

M3.1



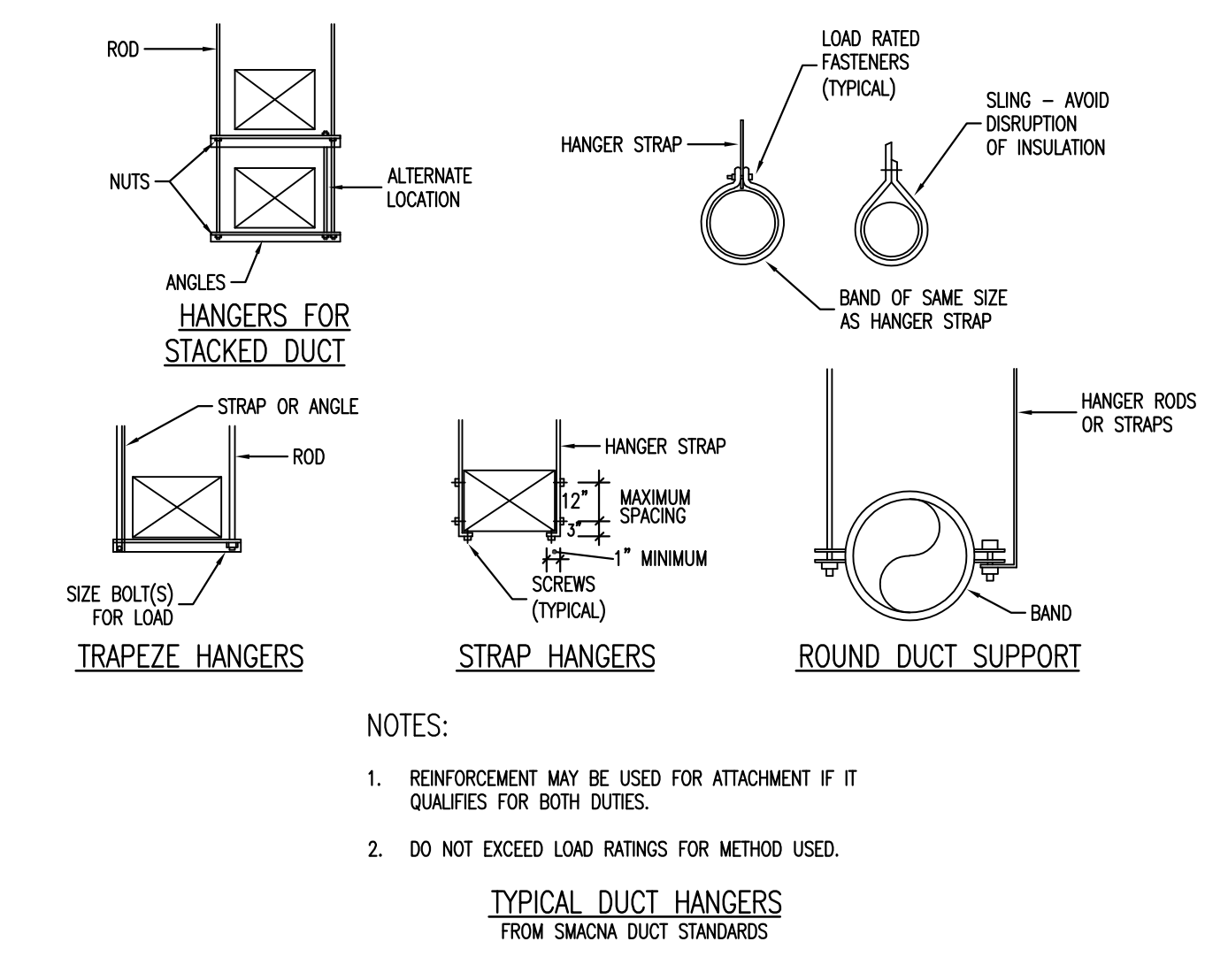
WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
N.E.C ARTICLE 110-26

DETAIL 09
NOT TO SCALE



DEDICATED SPACE FOR ELECTRICAL EQUIPMENT
N.E.C ARTICLE 110-26(F)(1)

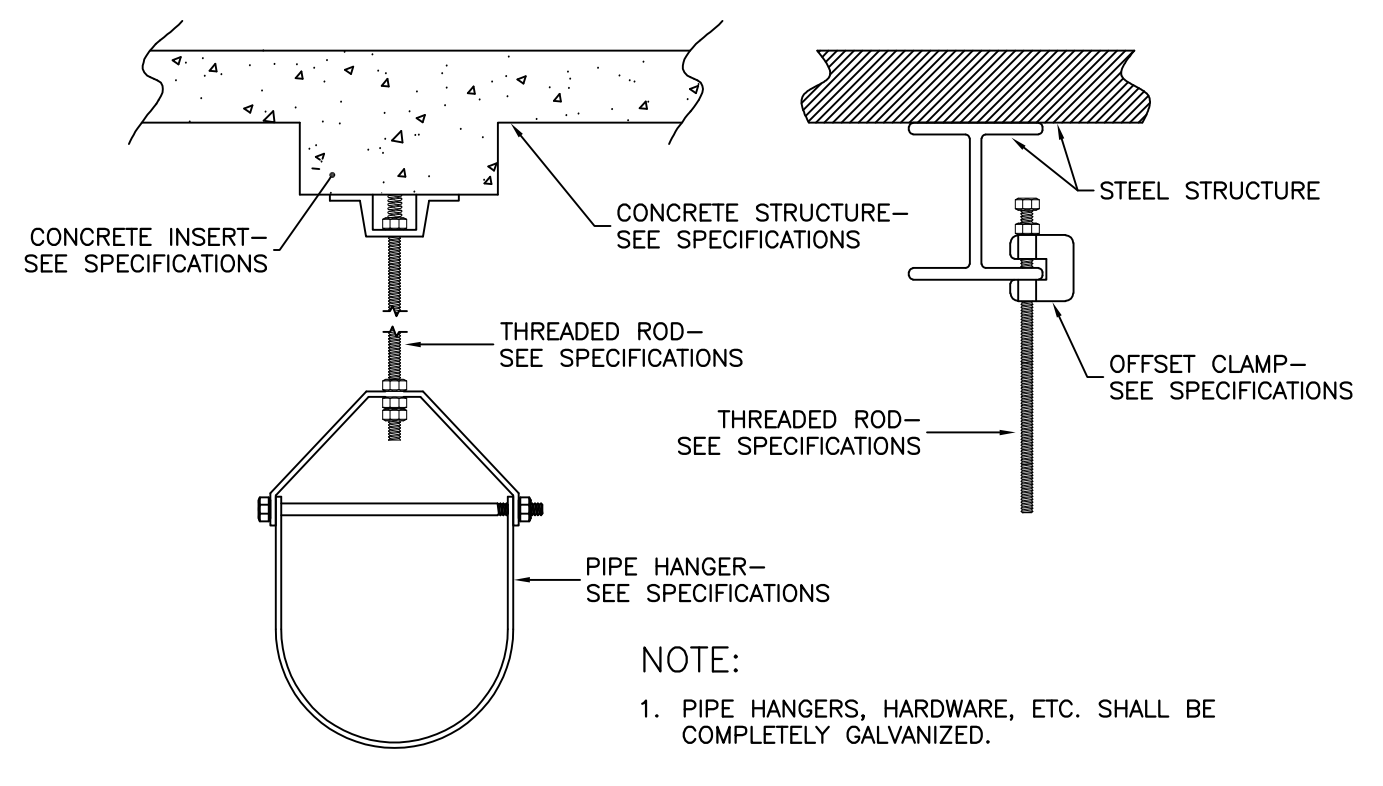
DETAIL 10
NOT TO SCALE



NOTES:
1. REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.
2. DO NOT EXCEED LOAD RATINGS FOR METHOD USED.

TYPICAL DUCT HANGERS
FROM SMACNA DUCT STANDARDS

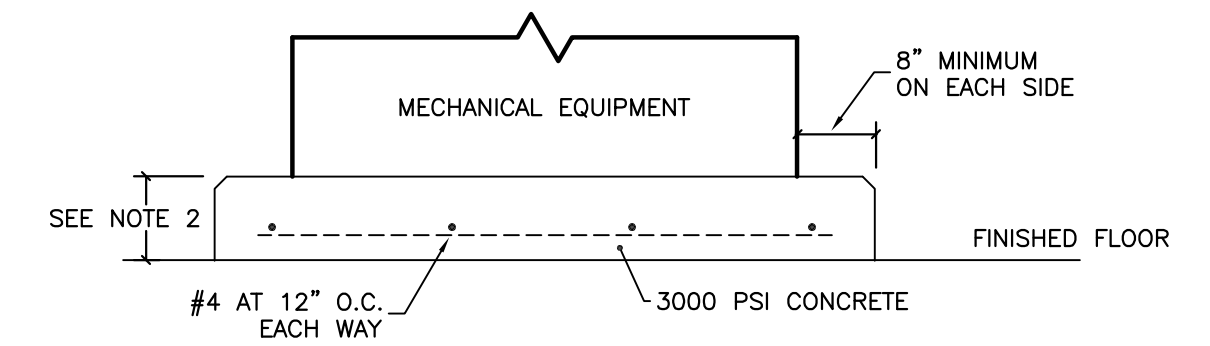
DETAIL 11
NOT TO SCALE



NOTE:
1. PIPE HANGERS, HARDWARE, ETC. SHALL BE COMPLETELY GALVANIZED.

HANGERS

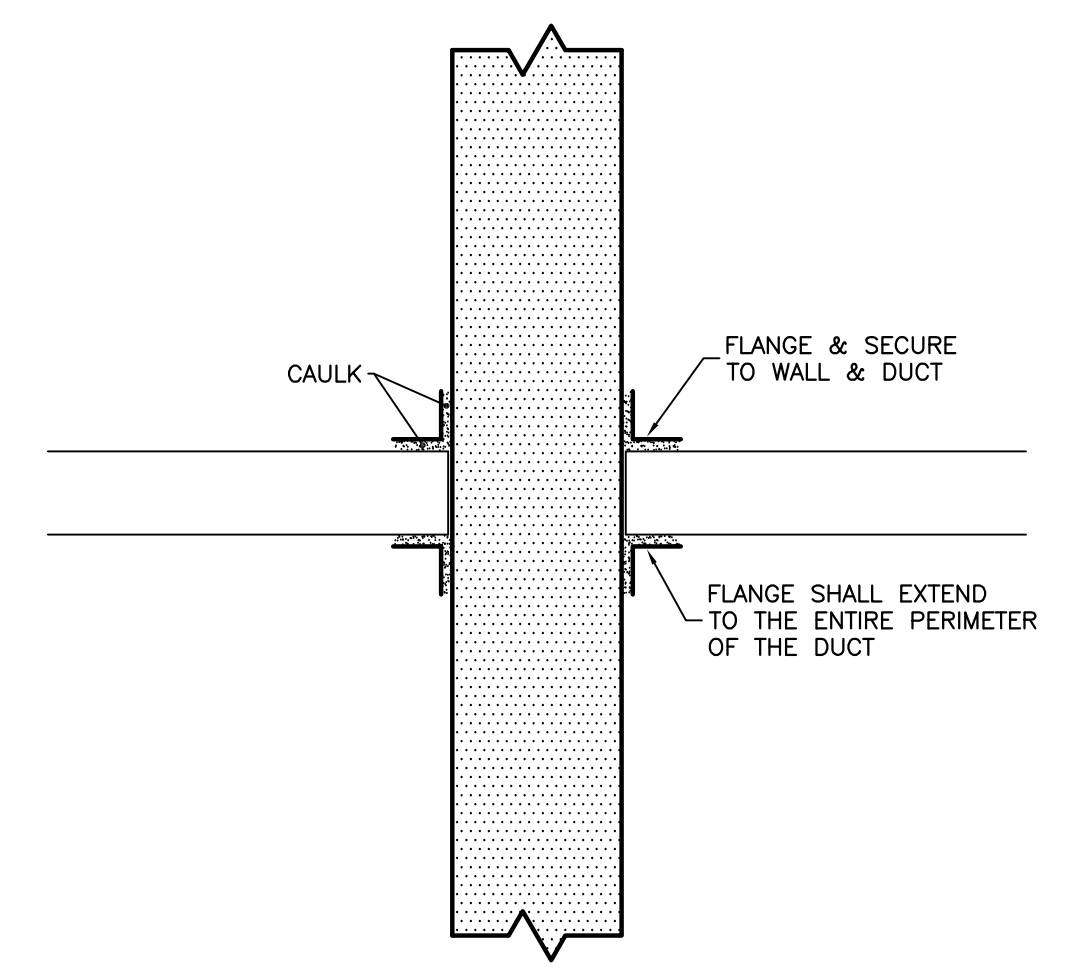
DETAIL 06
NOT TO SCALE



NOTES:
1. ACTUAL PAD SIZE TO BE DETERMINED BY CONTRACTOR AFTER ALL EQUIPMENT HAS BEEN SUBMITTED AND REVIEWED.
2. PAD SHALL BE 4" HIGH FOR ALL AHUs. REFER TO CONDENSING UNIT PAD DETAIL FOR THAT PARTICULAR EQUIPMENT.

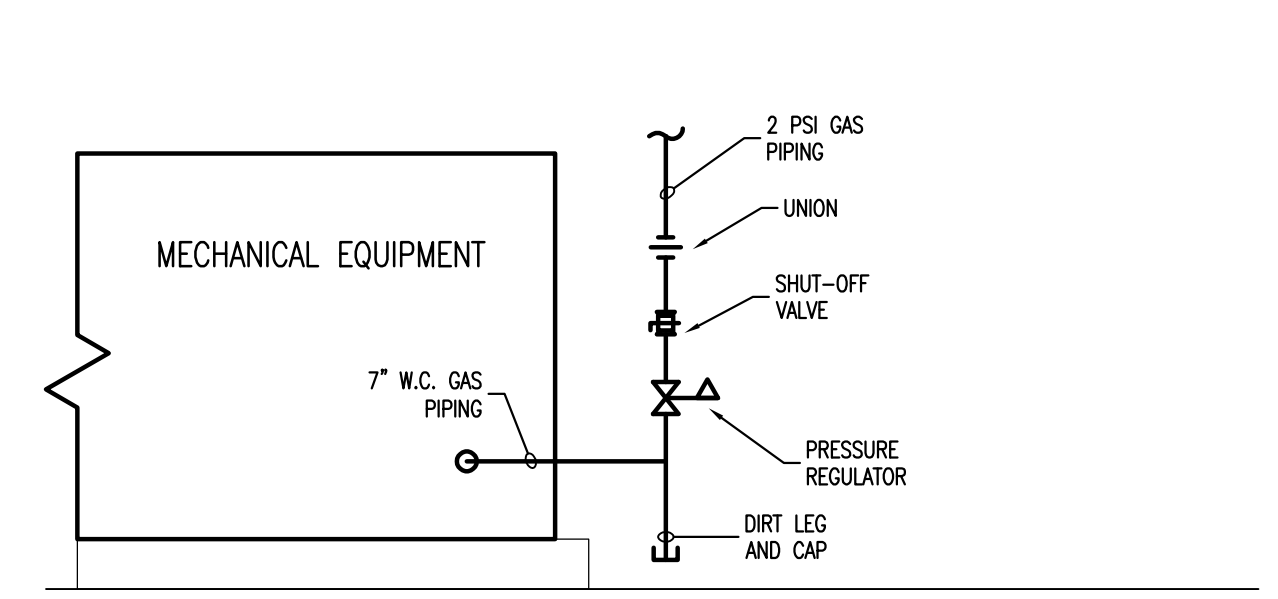
MECHANICAL EQUIPMENT SUPPORT PAD

DETAIL 07
NOT TO SCALE



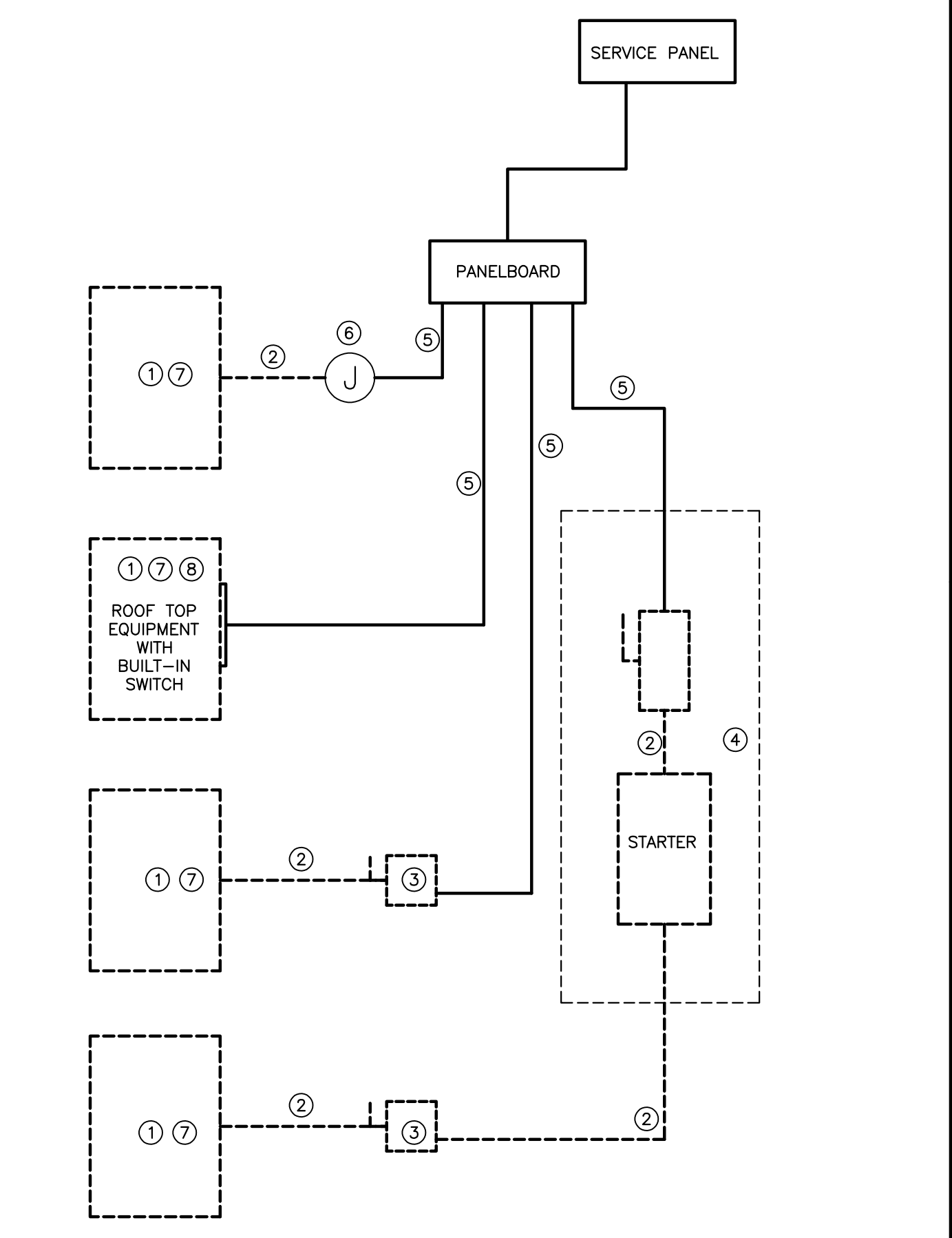
(PLAN VIEW)
NON-RATED DUCT PENETRATION

DETAIL 07
NOT TO SCALE



TYPICAL GAS CONNECTION

DETAIL 08
NOT TO SCALE

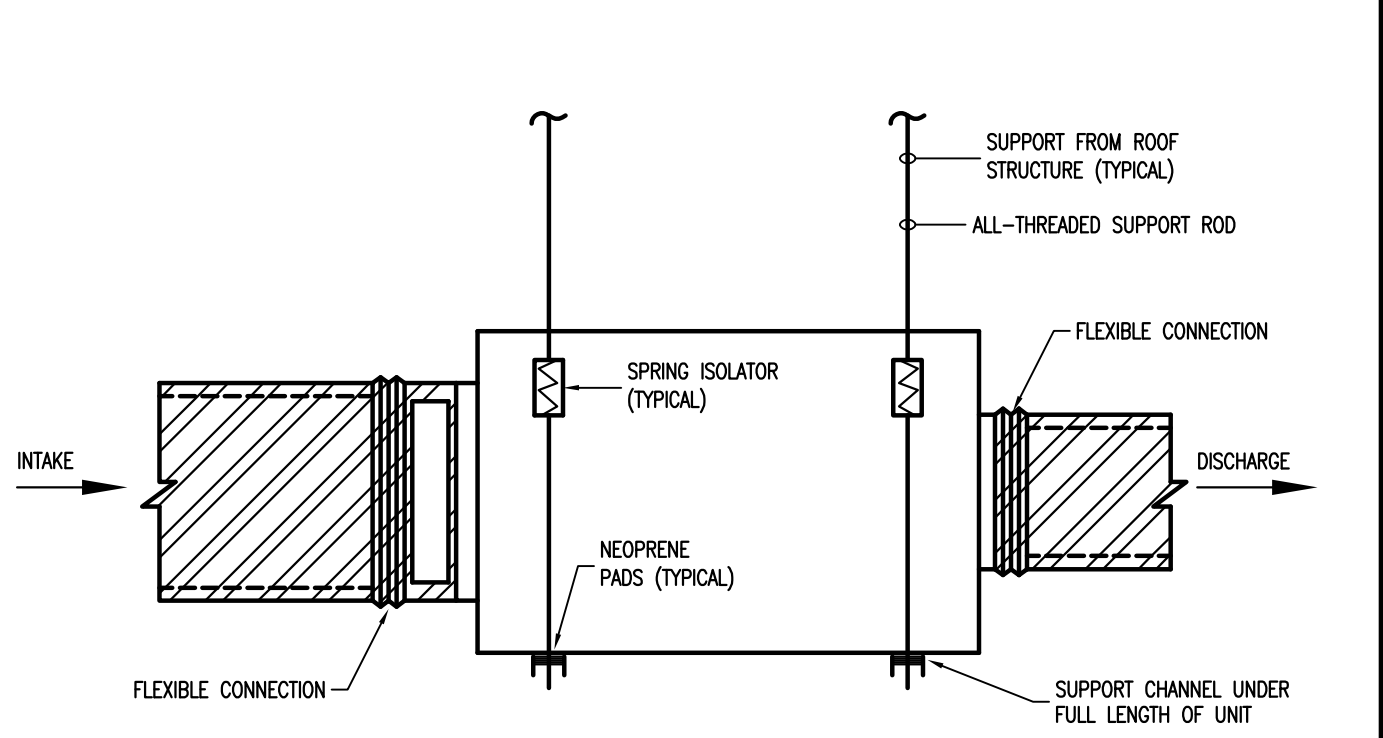


GENERAL NOTES:
1. IN A SINGLE PRIME CONTRACT IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHER TRADES.

- NOTES: (AS INDICATED IN THIS DETAIL BY A NUMBER IN A ○)
- ① EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
 - ② CONDUIT AND WIRING PROVIDED BY HVAC, PLUMBING CONTRACTOR OR TRADES.
 - ③ IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED BY THE EQUIPMENT CONTRACTOR.
 - ④ A COMBINATION STARTER OR VFD MAY BE PROVIDED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. PROVIDE ADJACENT TO EQUIPMENT. THIS SHALL BE PROVIDED BY THE EQUIPMENT CONTRACTOR.
 - ⑤ FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. REFER TO PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
 - ⑥ JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
 - ⑦ IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
 - ⑧ IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.

ELECTRICAL EQUIPMENT CONNECTIONS

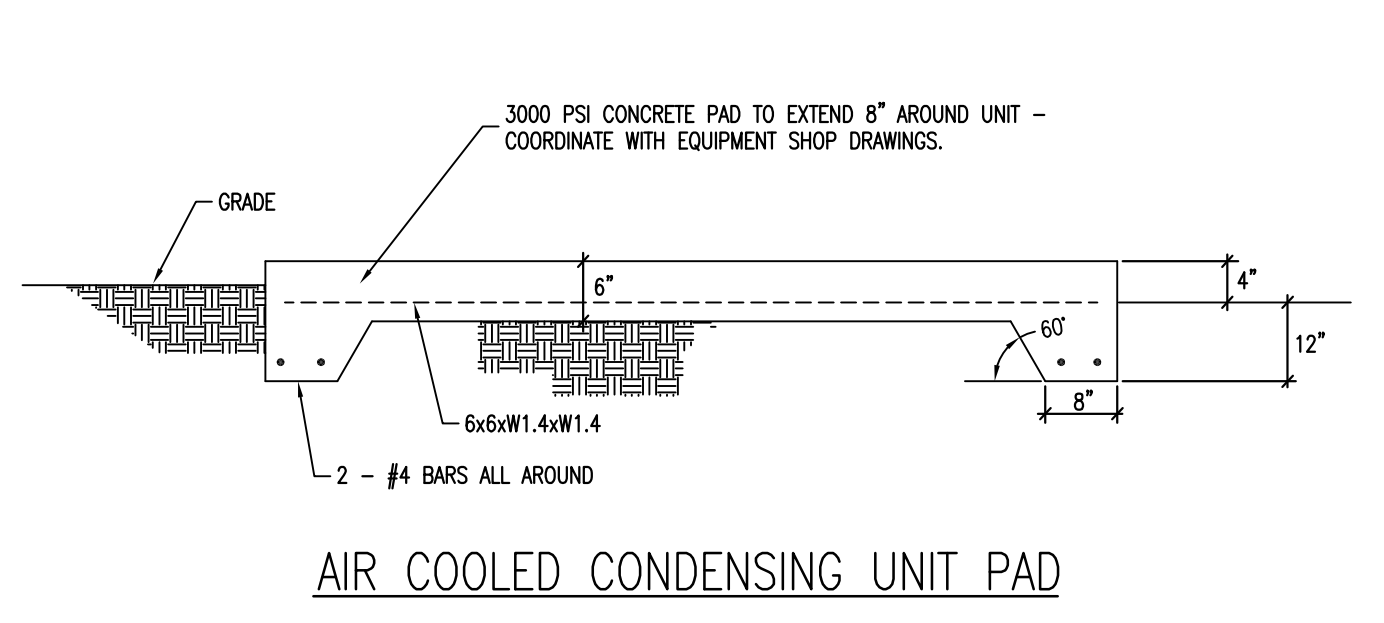
DETAIL 04
NOT TO SCALE



NOTES:
1. WRAP FAN WITH 2" 1-1/2 LB DENSITY FIBERGLASS INSULATION FOR SOUND CONTROL.

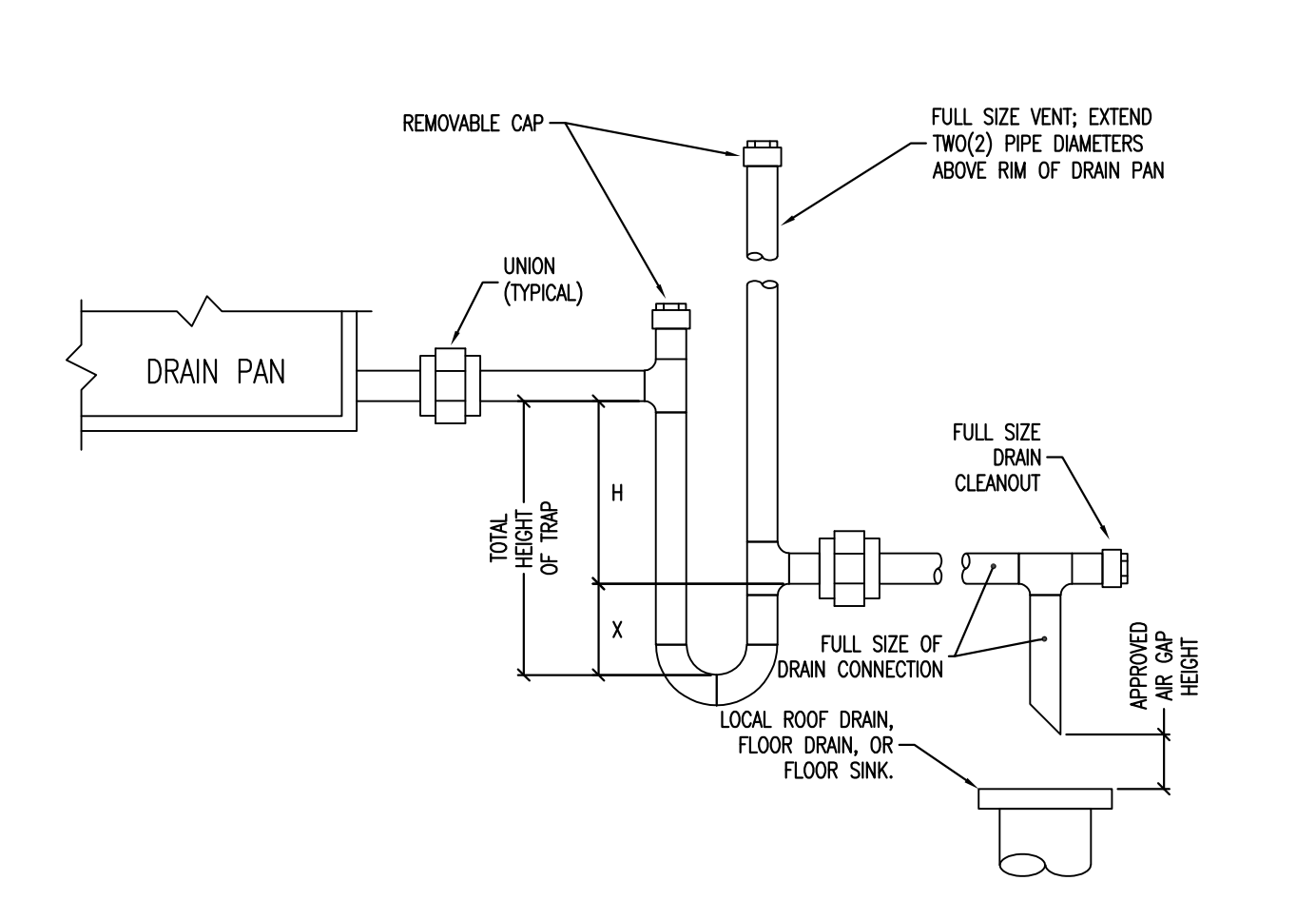
IN-LINE FAN SUPPORT

DETAIL 05
NOT TO SCALE



AIR COOLED CONDENSING UNIT PAD

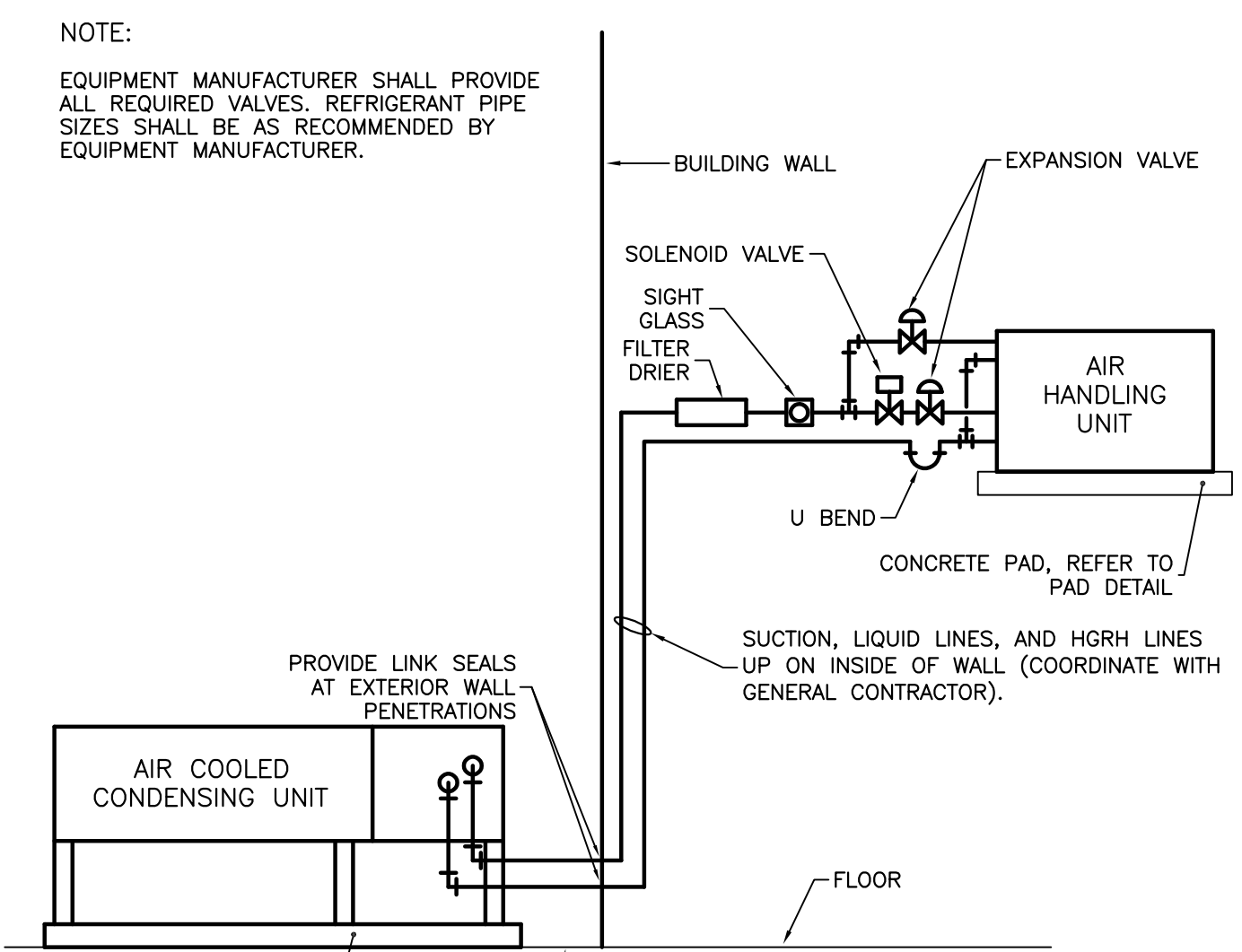
DETAIL 01
NOT TO SCALE



BLOW THROUGH	DRAW THROUGH
X = MINIMUM 1" PLUS CASING STATIC PRESSURE	X = 1/2 "H"
H = MINIMUM 1"	H = MINIMUM 1" PLUS CASING STATIC PRESSURE

CONDENSATE DRAIN DETAIL

DETAIL 02
NOT TO SCALE



SET UNIT ON NEOPRENE VIBRATION ISOLATION PADS. SHIM LEVEL.

REFRIGERANT PIPING SCHEMATIC

DETAIL 03
NOT TO SCALE

CONSULTANT

SEAL

STEVE W. CAMPBELL
06/13/2024

PROGRESSIVE DESIGN COLLABORATIVE, LTD.
3101 Poplwood Court, Suite 300
Raleigh, North Carolina 27604
919-793-0909
License# E-0183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

SEAL

J K F
ARCHITECTURE

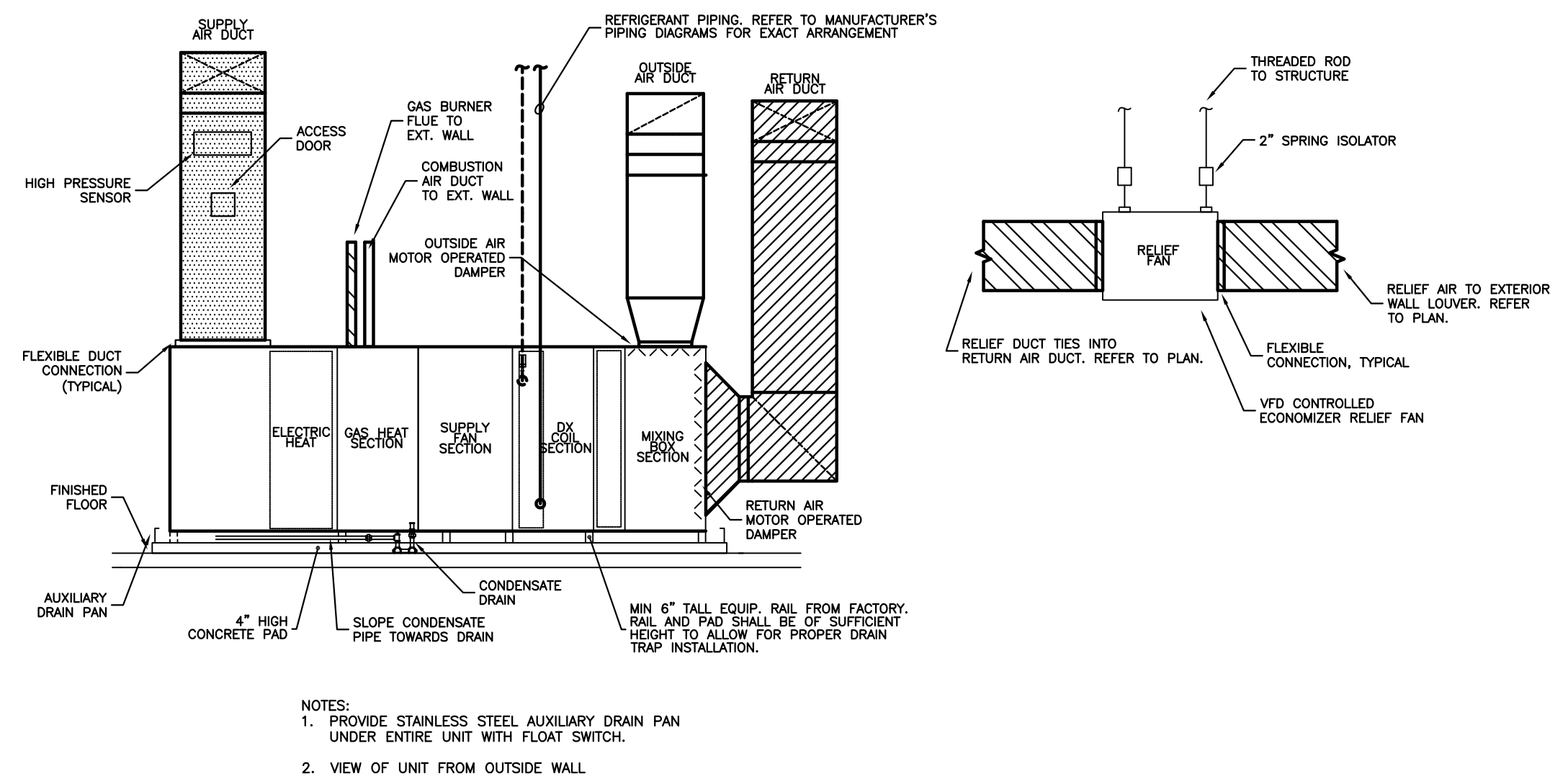
625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE
MECHANICAL DETAILS

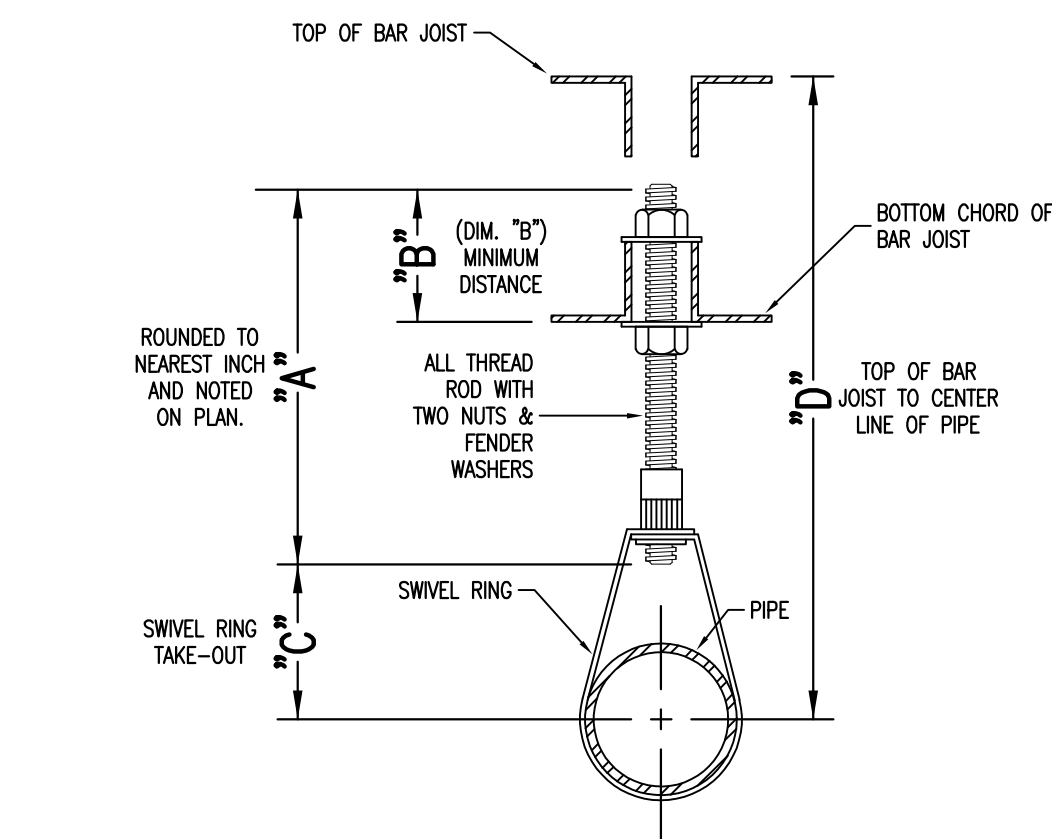
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NTS	
DRAWN JAV	
CHECKED SWC	
DATE 5-20-2024	
PROJECT NO. 2016-20B	

M4.1



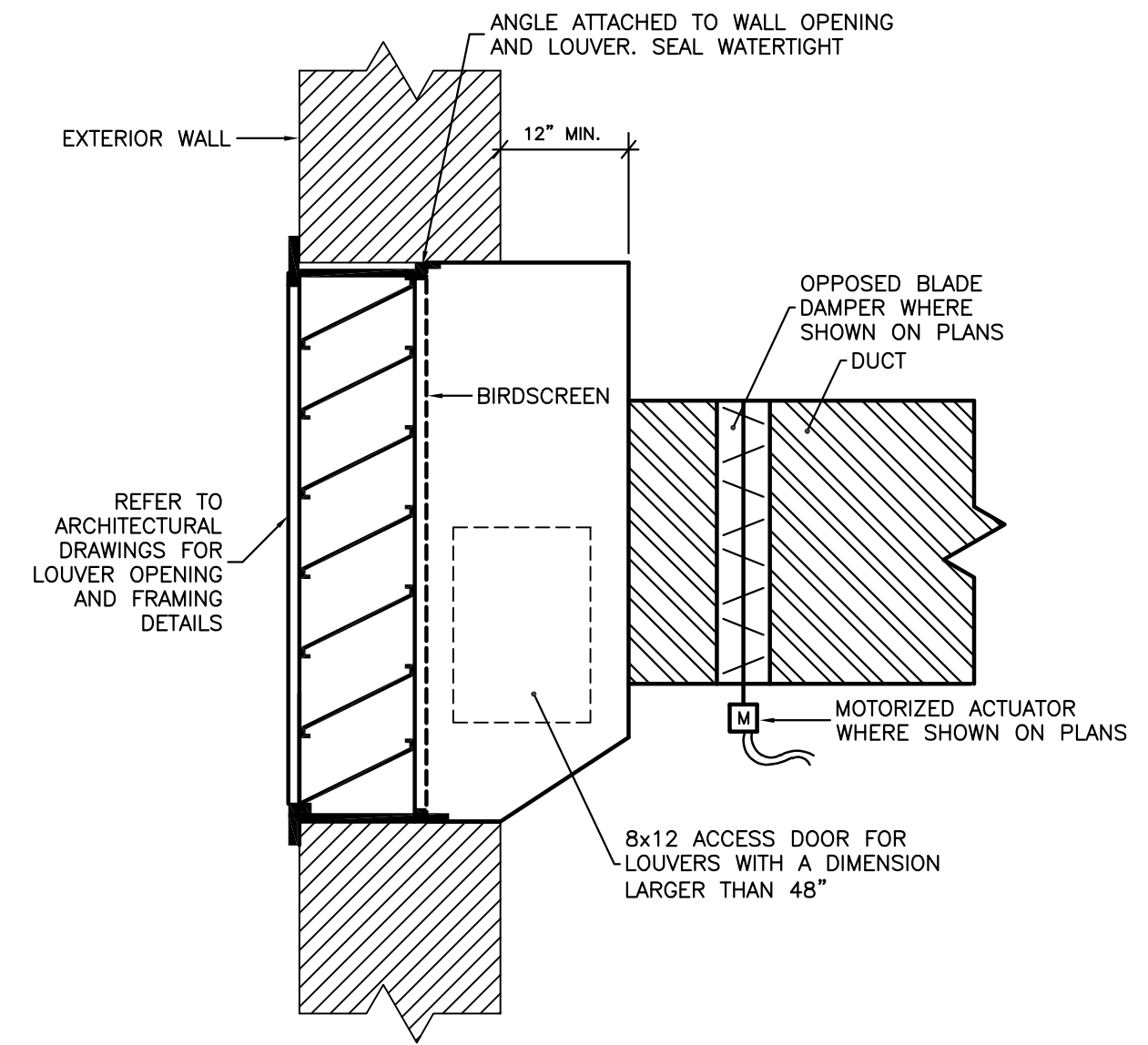
AIR HANDLING UNIT DETAIL

NOTES:
 1. PROVIDE STAINLESS STEEL AUXILIARY DRAIN PAN UNDER ENTIRE UNIT WITH FLOAT SWITCH.
 2. VIEW OF UNIT FROM OUTSIDE WALL.



PIPE SIZE	ROD SIZE	'B' DIM.	MIN. 'C' DIM.	MAX. 'C' DIM.
3/4"	3/8"	SIZE OF ANGLE IRON ON BOTTOM CHORD OF BAR JOIST PLUS 1 1/2"	1/2"	1 5/8"
1"			5/8"	1 3/4"
1 1/4"			13/16"	1 7/8"
1 1/2"			15/16"	2"
2"			1 3/16"	2 3/8"
2 1/2"			1 7/16"	2 3/4"
3"			1 3/4"	3 1/4"
3 1/2"			2"	3 5/8"
4"	1/2"		2 1/4"	3 7/8"
5"			2 3/4"	4 3/4"
6"			3 5/16"	5 1/2"
8"			4 5/16"	6 3/4"

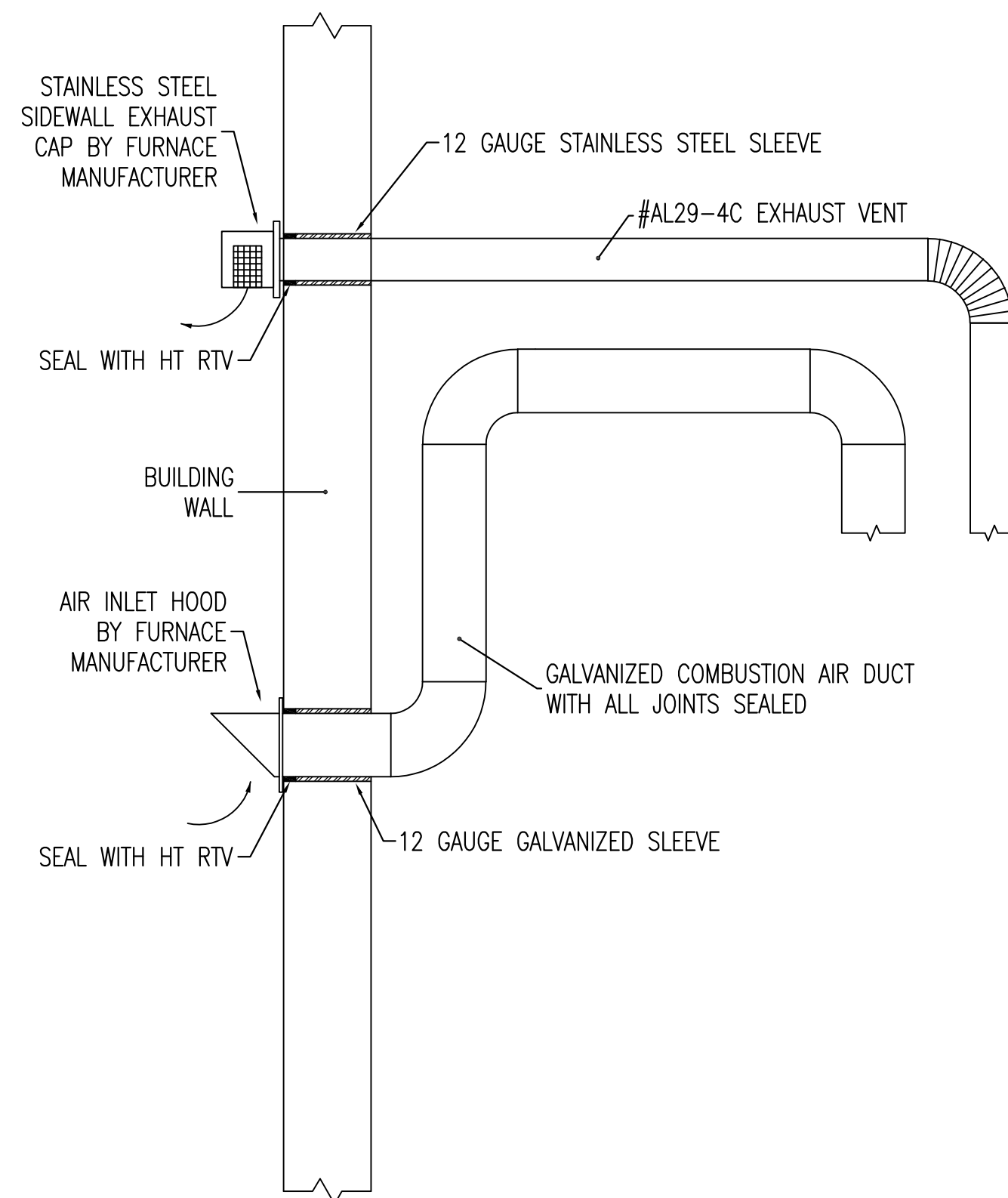
DETAIL 04
NOT TO SCALE



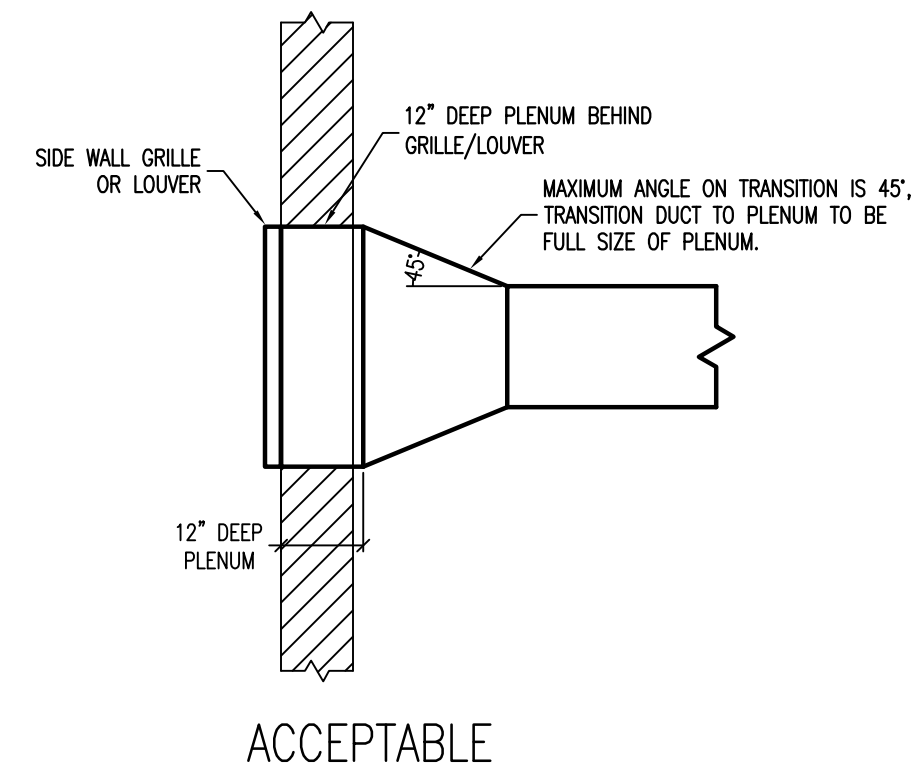
OUTSIDE AIR/EXHAUST LOUVER

DETAIL 01
NOT TO SCALE

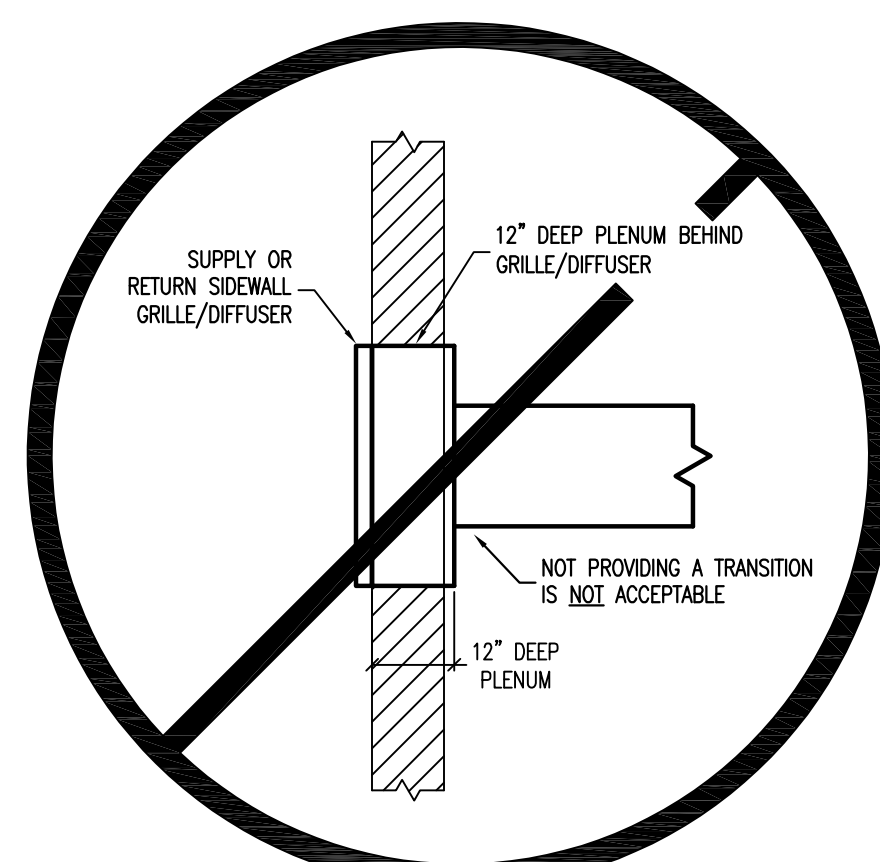
DETAIL 05
NOT TO SCALE



TYPICAL FURNACE EXHAUST/VENT DETAIL



ACCEPTABLE

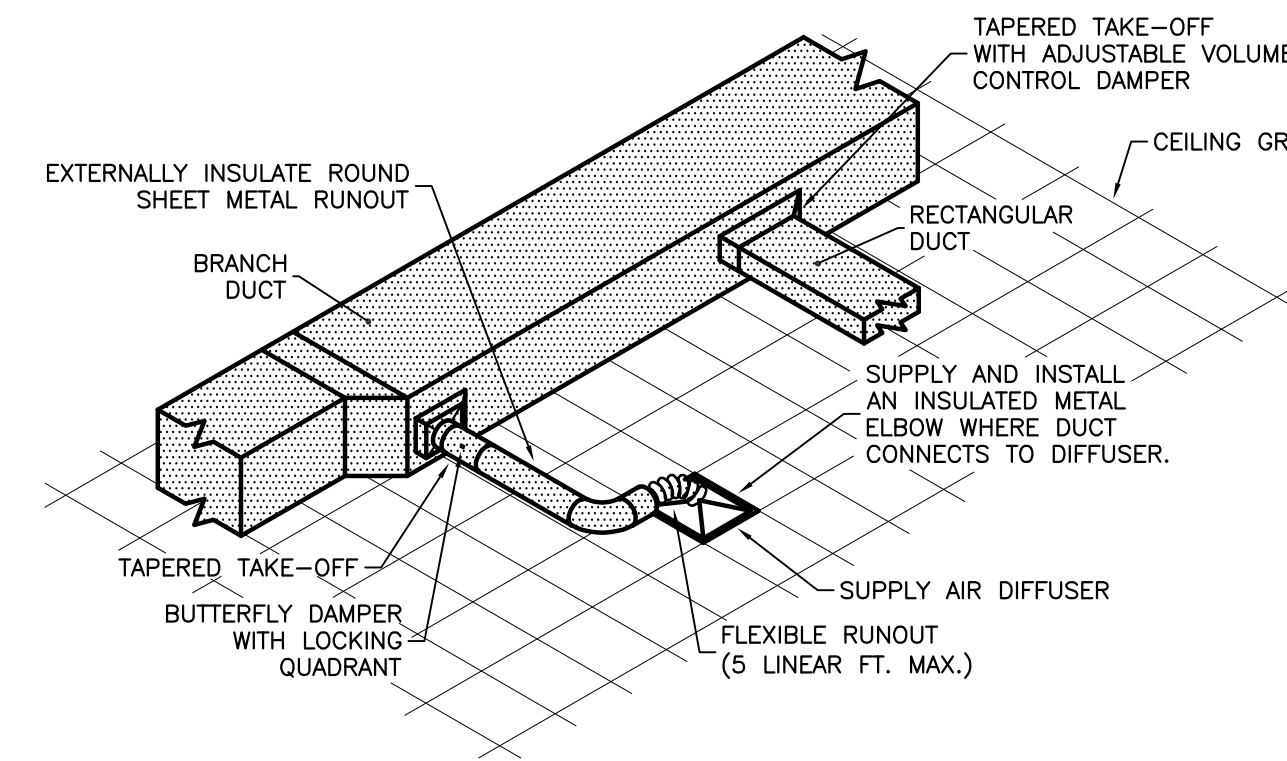
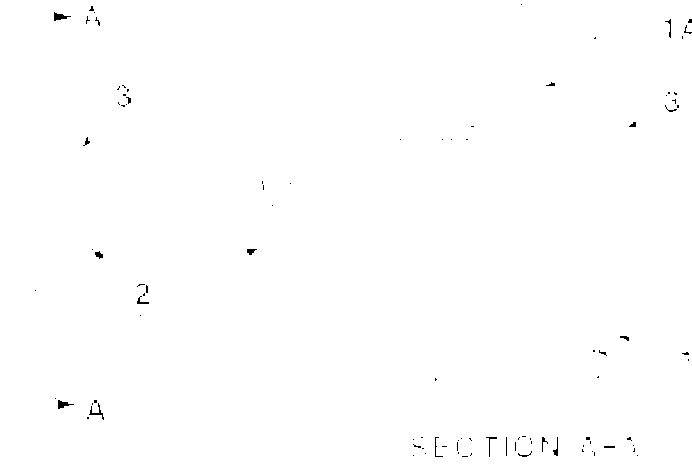


NOT ACCEPTABLE

DETAIL 07
NOT TO SCALE

DETAIL 06
NOT TO SCALE

06

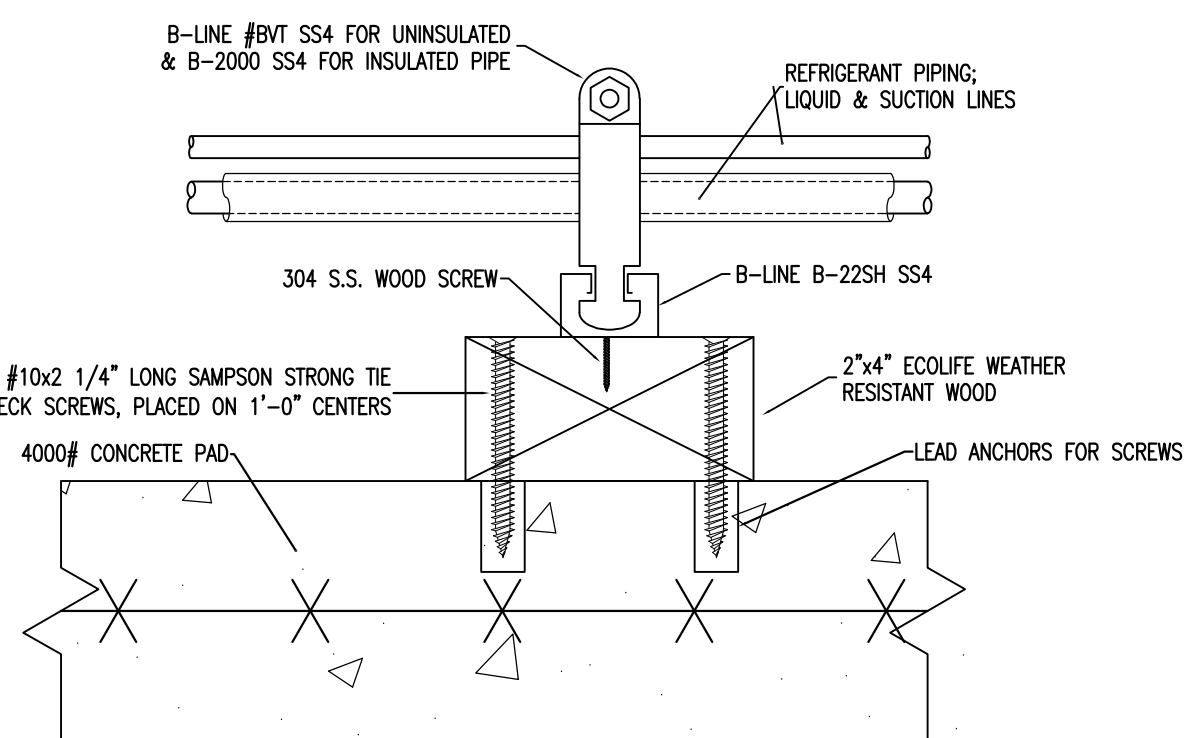


NOTE:
 PROVIDE TAPERED TAKE-OFF WITH ADJUSTABLE VOLUME DAMPER, AIR DISTRIBUTING GRID, OR RADIUS TAKE-OFF WITH STRAIGHTENING VANES AT TAKE-OFF.

SUPPLY AIR TAKE-OFF

DETAIL 02
NOT TO SCALE

02

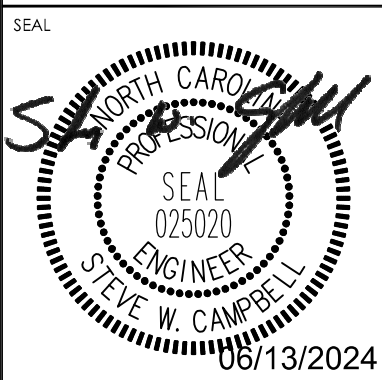


DETAIL FOR REFRIGERANT PIPE SUPPORT

DETAIL 03
NOT TO SCALE

03

CONSULTANT



KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO REVISION DATE

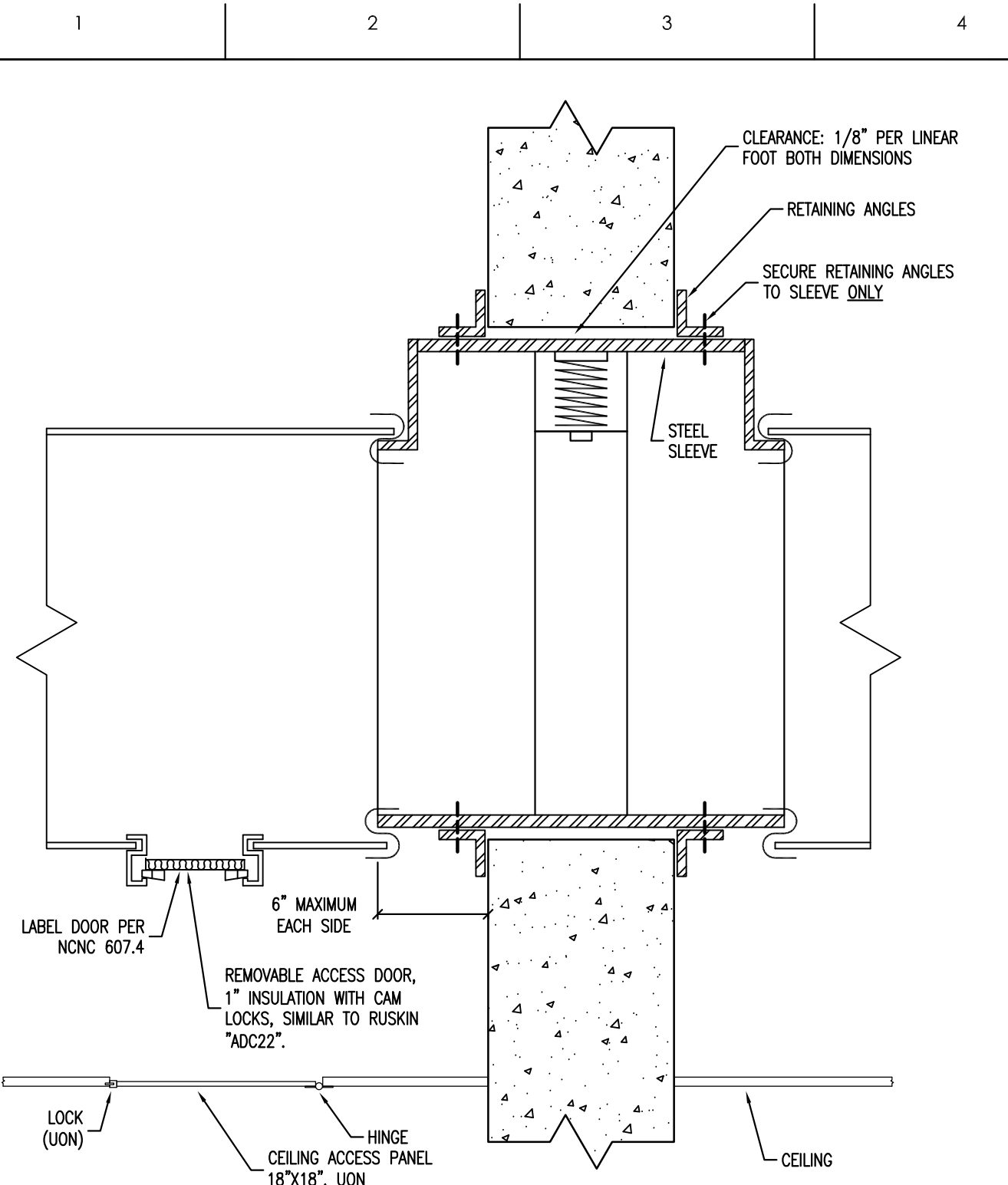
JKF
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **MECHANICAL DETAILS**

SCALE	NTS	DRAWING NO. M4.2
DRAWN	JAV	
CHECKED	SWC	
DATE	5-20-2024	
PROJECT NO.	2016-20B	



- NOTES:**
- INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - FIRE DAMPER SHALL HAVE BLADES OUT OF THE AIR STREAM.
 - SECURE DAMPER TO SLEEVE ON 8" CENTERS WITH:
 - 1/2" LONG WELDS OR
 - 1/4" BOLTS AND NUTS IN HOLES PROVIDED OR
 - #10 STEEL SCREWS OR
 - MINIMUM 3/16" STEEL RIVETS.
 - CEILING ACCESS PANEL IS REQUIRED IN GYPSUM BOARD CEILING.
 - COORDINATE TYPE OF CEILING ACCESS PANEL WITH ARCHITECTURAL PLANS. COORDINATE LOCATION OF CEILING ACCESS PANEL WITH ALL CONTRACTORS.
 - THIS TYPICAL FIRE DAMPER DETAIL IS GENERIC GUIDANCE ONLY. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRE STOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - WHERE THE INSTALLATION INSTRUCTIONS REQUIRE ADDITIONAL FRAMING IN THE WALL FOR MOUNTING, COORDINATE INSTALLATION REQUIREMENTS WITH GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO ENSURE FRAMING IS PROVIDED FOR A COMPLIANT INSTALLATION.
 - FIRE DAMPER MUST REMAIN ACCESSIBLE WITHOUT REMOVING FLEX DUCT.

FIRE DAMPER

AIR DISTRIBUTION SCHEDULE

MARK	PURPOSE	CFM	SIZE	FLEX DUCT	MAKE	MODEL	REMARKS
A	SUPPLY	40-100	24 x 24	6"	PRICE	ASCSA	①②③
B	SUPPLY	105-230	24 x 24	8"	PRICE	ASCSA	①②③
C	SUPPLY	235-375	24 x 24	10"	PRICE	ASCSA	①②③
D	SUPPLY	-	10x6	-	PRICE	620	
E	SUPPLY	350-450	6 x 18	-	PRICE	HCD	
R	EXHAUST	50-100	24 x 24	6"	PRICE	APDOR	①②③④
S	EXHAUST	105-225	24 x 24	8"	PRICE	APDOR	①②③④
T	EXHAUST	230-375	24 x 24	10"	PRICE	APDOR	①②③④
V	RETURN	560-850	24 x 24	14"	PRICE	APDOR	①②③④
Y	RETURN	3650	30 x 60	-	PRICE	98	①

GENERAL NOTES:

A. EQUIVALENTS BY KRUEGER, TITUS, TUTTLE AND BAILEY, NAILOR, OR AS LISTED IN SPECIFICATIONS.
 B. PROVIDE VOLUME DAMPERS AT TAKE-OFF FOR EACH GRILLE.

- REMARKS:**
- PROVIDE WITH OFF-WHITE ENAMEL FINISH. ARCHITECT SHALL CONFIRM COLOR.
 - PROVIDE WITH TRIM TO MATCH CEILING TYPE. REFER TO RCP IN ARCHITECTURAL DRAWINGS.
 - PROVIDE GRILLE WITH ROUND NECK OR SUPPLY SQUARE-TO-ROUND TRANSITION.
 - ALL CEILING MOUNTED RETURN GRILLES SHALL BE FULL-FACED. NO LAY-IN PANELS ALLOWED.
 - PROVIDE SPLIT BLADE TYPE, OPTIONAL SPIRAL DUCT FRAME, DAMPER WITH POLE OPERATOR BRACKET AND FIELD PAINTABLE FINISH

ELECTRIC UNIT HEATER SCHEDULE

MARK	MAKE	MODEL	MBH	KW	VOLTAGE/PH	MOUNTING HEIGHT	LOCATION	REMARKS
EUH-01	MARKEL	F2F5105N	17.1	5.0	208/3	10'	MECHANICAL PLATFORM	①②③④⑤
EUH-02	MARKEL	F2F5103N	11.2	3.3	208/1	9'	STORAGE 102	①②③④⑤
EUH-03	MARKEL	F2F5103N	11.2	3.3	208/1	9'	PLUMB CHASE	①②③④

GENERAL NOTES:

A. UNITS BASED ON MARKEL 5100 SERIES.
 B. EQUIVALENTS BY REZ NOR, BERKO, AND INDEECO, OR AS LISTED IN SPECIFICATIONS.

- REMARKS:**
- PROVIDE HANGING BRACKET, DUST SHIELD, AND FAN GUARD.
 - PROVIDE FACTORY THERMOSTAT
 - UL OR ETL LISTED.
 - PROVIDE FACTORY DISCONNECT SWITCH.
 - PROVIDE SUMMER FAN SWITCH.

REFRIGERANT CALCULATIONS

RCL FOR R-454B IS 3.2 LBS/1000 CU FT.
 SYSTEM IS CONSIDERED A HIGH PROBABILITY SYSTEM WITH A2L REFRIGERANT. SYSTEM IS AN EXAMPLE OF "CONNECTED SPACES" VIA DUCTED AIR DISTRIBUTION.
 VOLUME OF SERVED SPACE IS APPROX: 215,473 cu ft
 CALCULATION PER 7.3.1 OF ASHRAE 15
 EDVC = 3.2 lbs/1000 cu ft x 215,473 cu ft x 1.0 = **689 lbs**
 CALCULATION PER 7.6.1.1 OF ASHRAE 15:
 EDVC = 215,473 cu ft x 22.0 lbs/1000 cu ft x 0.5 x 1.0 = **2370 lbs**
 UNIT WILL HAVE AIR CIRCULATION INITIATED BY REFRIGERANT DETECTOR
 PER 7.3.4, MAXIMUM RELEASABLE CHARGE M_{rel} SHALL BE THE REFRIGERANT CHARGE IN EACH INDEPENDENT CIRCUIT. **59.6 LBS** FIELD PIPING CHARGE. **THIS IS LESS THAN 689 LBS.**

SPLIT SYSTEM DX HORIZONTAL AIR HANDLING UNIT

MARK	MANUFACTURER	MAX COOLING CFM	MIN CLOS/HTG CFM	MAX HEATING CFM	MAX OUTSIDE AIR CFM	MIN DOV OUTSIDE AIR CFM	ESP. in wg	TSP. in wg	BHP	QTY/HP	COOLING COIL ENT AIR	COOLING COIL LV AIR	WINTER OUTSIDE ENT CONDITIONS	WINTER LEAVING CONDITIONS	TOTAL COOLING	SENSIBLE COOLING	ELEC HEAT	ELEC HEAT	GAS INPUT	GAS OUTPUT	EER	COP	APPROX DIMENSIONS	VOLT/PH	FLA	MCA/MOCP	UNIT WEIGHT (LBS)	REMARKS				
AHU-01	ADAPTIV AIR	16,300	7,000	8,150	7,000	2,400	1.3	4.40	15.9	2/10.0	85.7	69.6	56.4	56.1	42.2	38.0	75.2	85.2	704.8	523.8	88.0	SCR	600.0	486.0	10.1	N/A	276 x 86 x 82	208/3	301	362/400	6,550	①②③④⑤⑥⑦

GENERAL NOTES:

- MINIMUM 6 ROW DX COOLING COIL WITH 2" MERV 8 FILTERS. COIL CASING SHALL BE STAINLESS STEEL. MAX APD 1.20" UNIT IS BLOW-THRU CONFIGURATION.
- PROVIDE 6" BASE RAIL AND DOUBLE SLOPED STAINLESS STEEL DRAIN PAN.
- PROVIDE MICROPROCESSOR CONTROLS AND VOLTAGE/PHASE MONITOR.
- PROVIDE FACTORY CIRCUIT BREAKER, SINGLE POINT POWER CONNECTION, AND 24V CONTROL TRANSFORMER FOR EVAPORATOR UNIT. 35 kA SCCR.
- PROVIDE SPACE TEMPERATURE AND HUMIDITY SENSORS. PROVIDE DUCT MOUNTED SUPPLY AIR TEMPERATURE SENSOR.
- PROVIDE HORIZONTAL CONFIGURATION.
- DUAL INDEPENDENTLY CIRCUITED COMPRESSORS WITH HOT GAS BYPASS (BOTH CIRCUITS).
- FAN SHALL BE DIRECT DRIVE WITH FACTORY VFD AND SHAFT GROUNDING. PROVIDE NON-FUSED DISCONNECT SWITCH AND UL PANEL WITH MANUAL MOTOR PROTECTORS TO DISTRIBUTE POWER TO EACH MOTOR.
- EQUIVALENTS BY DAIKIN, TRANE, OR YORK.

AIR COOLED SPLIT SYSTEM DX CONDENSING UNIT

MARK	MANUFACTURER	MODEL	FAN QTY/HP	FAN QTY/HP	CMR QTY/RLA	CMR QTY/RLA	SUCTION LINE OD	LIQUID LINE OD	EQUIV LENGTH	VOLT/PH	MCA	MOCP	TOTAL REF CHARGE (LBS)	UNIT WEIGHT (LBS)	APPROX DIMENSIONS L x W x H	REMARKS
CU-01	AMON	CFA-060-D-A-3	2/1.5	2/1.5	2/26.9	2/26.9	PER MFG	PER MFG	-65 ft	208/3	247	250	29.8 x 2	2,701	122 x 84 x 69	①②③④⑤⑥⑦

- REMARKS:**
- PROVIDE NEOPRENE VIBRATION ISOLATION PADS AND CONCRETE HOUSEKEEPING PAD.
 - PERFORMANCE BASED ON 105°F AMBIENT.
 - PROVIDE HAIL GUARDS FOR CONDENSER COILS.
 - UNIT SHALL BE R-454B. REFRIGERANT LINE SIZES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
 - EQUIVALENTS BY DAIKIN, TRANE, OR YORK.
 - PROVIDE FACTORY CIRCUIT BREAKER. MINIMUM 35 kA SCCR.
 - MANUFACTURER SHALL PROVIDE A REFRIGERANT DETECTION SYSTEM WITH THE EQUIPMENT. REFER TO SEQUENCE ON M3.1 FOR REQUIREMENTS.

LOUVER SCHEDULE

MARK	RUSKIN MODEL	SIZE (WxH)	FREE AREA (SQ. FT.)	CFM	MAX Pd	USE	PURPOSE
LV-01	HZ700	24x16	0.94	520	0.05	EXHAUST	TOILET EXHAUST
LV-02	HZ700	60x120	28.62	16,300	0.10	INTAKE	OUTSIDE AIR
LV-03	HZ700	60x120	28.62	16,300	0.09	EXHAUST	RELIEF AIR

- GENERAL NOTES:**
- PROVIDE GRAVITY BACK DRAFT DAMPERS ON ALL EXHAUST LOUVERS.
 - PROVIDE FRAMED, 1/4" x 1/4" ALUMINUM BIRD SCREENS FOR ALL LOUVERS.
 - WIND DRIVEN RAIN RESISTANT STATIONARY LOUVER. 6" DEEP FRAME. COORDINATE FRAME REQUIRED WITH ARCHITECTURAL WALL.
 - LOUVERS SHALL BE PROVIDED BY DIVISION 23. COORDINATE WITH THE GENERAL CONTRACTOR ON OPENINGS.
 - PROVIDE 2-COAT KYNAR FINISH FOR ALL LOUVERS. ARCHITECT/OWNER TO SELECT THE COLOR OF ALL LOUVERS. PROVIDE SUBMITTALS TO ENGINEER AND ARCHITECT.
 - EQUIVALENTS BY GREENHECK, RELIABLE, POTTORFF, AND AS LISTED IN THE SPECIFICATIONS.
 - LV-02 AND LV-03 SHALL BE AMCA 540 AND AMCA 550 CERTIFIED.

FAN SCHEDULE

MARK	MAKE	MODEL	CFM	ESP	SONES	HP/WATTS	BHP	VOLT/#	MAX FAN RPM	REMARKS
EF-01	GREENHECK	CSP-A700	520	0.6	1.1	194	-	115/1	1,050	①②③④⑤⑥⑨
EF-02	GREENHECK	QE1-24-1	11,300	0.4	-	5.0 HP	3.03	208/3	1,200	⑤⑥⑦⑧⑩

- GENERAL NOTES:**
- PROVIDE ALL DUCT TRANSITIONS FOR FANS.
 - ALL FANS SHALL BE U.L. LISTED AND AMCA CERTIFIED.
 - PROVIDE WITH FACTORY MOUNTED OR PLUG TYPE DISCONNECT.
 - EXTERNALLY OR INTERNALLY MOUNTED DISCONNECT SWITCH FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
 - EQUIVALENTS BY TWIN CITY, PENN, OR AS LISTED IN SPECIFICATIONS.
- REMARKS:**
- PROVIDE SPEED CONTROLLER.
 - PROVIDE GRAVITY OPERATED DAMPER.
 - PROVIDE SQUARE TO ROUND DUCT CONNECTOR.
 - PROVIDE VIBRATION ISOLATION KIT.
 - PROVIDE MOTOR WITH THERMAL OVERLOADS.
 - VFD FOR FAN PROVIDED BY CONTROLS CONTRACTOR. PROVIDE SHAFT GROUNDING RING. FAN WEIGHTS 581 LBS. INVERTY DUTY MOTOR.
 - PROVIDE INLET SILENCER. INLET dBA = 72, OUTLET dBA = 74, RADIATED dBA = 60.
 - PROVIDE 2" VIBRATION SPRING ISOLATORS.
 - BAS CONTROLLED ON A SCHEDULE
 - BAS CONTROLLED IN CONJUNCTION WITH AHU-1

FAN SOUND POWER (AHU-01)

	63 Hz	125 Hz	250 Hz	500 Hz	1,000 Hz	2,000 Hz	4,000 Hz	8,000 Hz
SUPPLY DISCH	89	87	85	84	84	84	84	83
RADIATED	90	89	92	91	91	90	87	84
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

GENERAL NOTES:

A. VALUES LISTED ARE MAXIMUM PERMISSIBLE PER OCTAVE BAND.

CONSULTANT

pdc
Progreive Design Collaborative, Ltd.
 3101 Popplewood Court, Suite 300
 Raleigh, North Carolina 27604
 919-703-0909
 License# C-0183
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C: NCCCS #2163

NO	REVISION	DATE

JKF
 ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **SCHEDULES**

SCALE: NTS	DRAWING NO: M5.1
DRAWN: JAV	
CHECKED: SWC	
DATE: 5-20-2024	
PROJECT NO: 2016-20B	

Project #: 24010
 Sheet: AS-1
 Printed By: JKF
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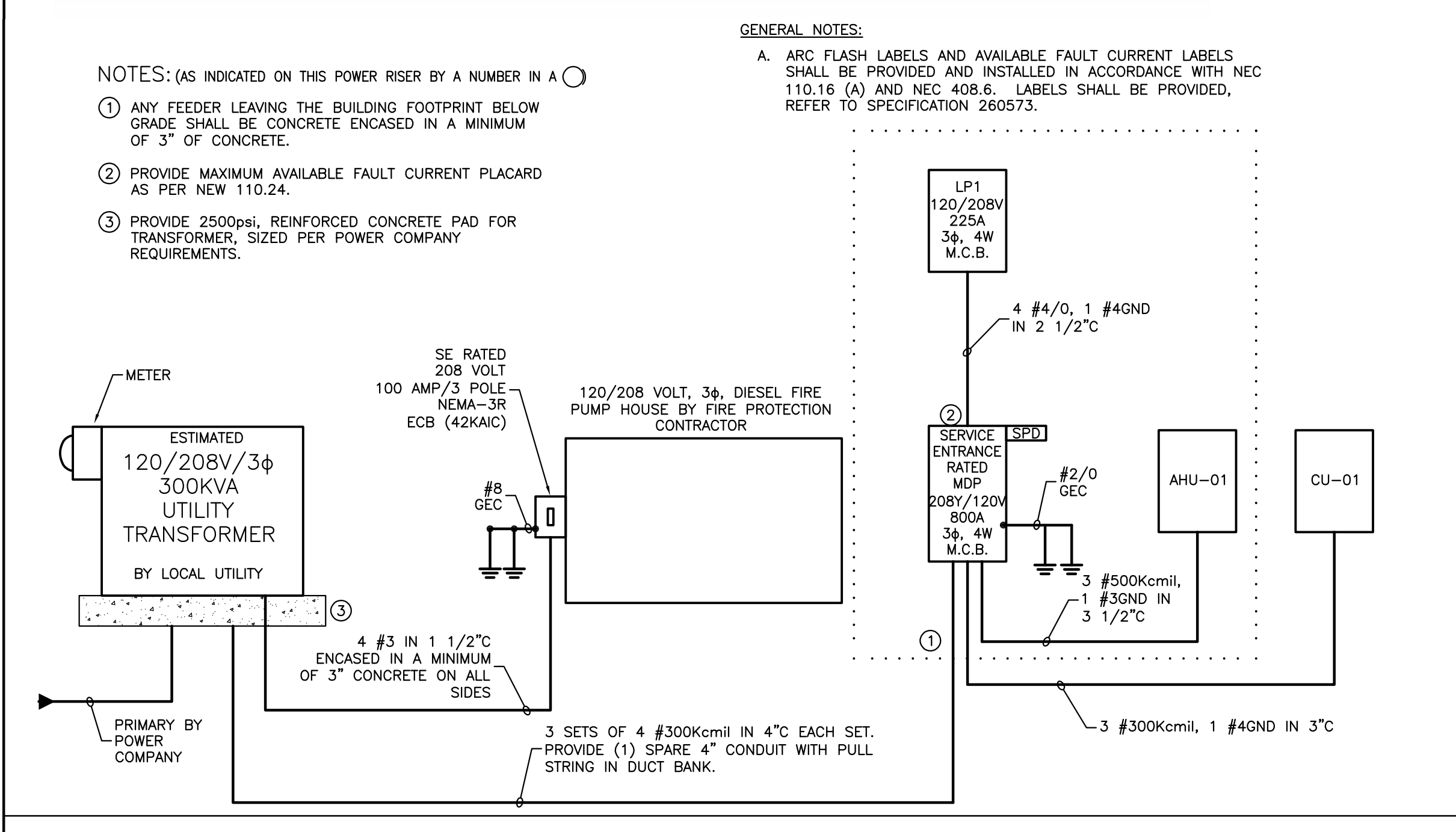
ABBREVIATIONS

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
SPD	SURGE PROTECTIVE DEVICE	A	AMPS; AMPERE, AMPERAGE
SW	SWITCH	AC	ABOVE COUNTER
SWBD	SWITCHBOARD	A/C	ALTERNATING CURRENT
SWGR	SWITCHGEAR	ADA	AMERICANS WITH DISABILITIES ACT
TC	TIME CLOCK	AFF	ABOVE FINISHED FLOOR
TEMP	TEMPORARY	AFG	ABOVE FINISHED GRADE
TGB	TECHNOLOGY GROUND BAR	AIC	AMPERE INTERRUPTING CURRENT
TGMB	TECHNOLOGY MAIN GROUND BAR	AL	ALUMINUM
TTB	TELEPHONE TERMINAL BOARD	ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
TV	TELEVISION	ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
TYP.	TYPICAL	ATS	AUTOMATIC TRANSFER SWITCH
U/C	UNDER COUNTER	A/V	AUDIO VISUAL
U/G	UNDERGROUND	AWG	AMERICAN WIRE GAUGE
UGE	UNDERGROUND ELECTRIC	BAS	BUILDING AUTOMATION SYSTEM
UL	UNDERWRITERS LABORATORIES	BFC	BELOW FINISHED CEILING
UON	UNLESS OTHERWISE NOTED	CB	CONDUIT
UPS	UNINTERRUPTIBLE POWER SUPPLY	C	CIRCUIT BREAKER
V	VOLTS; VOLTAGE	CCTV	CLOSED CIRCUIT TELEVISION
VFD	VARIABLE FREQUENCY DRIVE	CKT	CIRCUIT
WG	WIRE GUARD	CT	CURRENT TRANSFORMER
WP	WEATHERPROOF	D	COPPER
XFER	TRANSFER	D	DIMMING OR DIMMER
XFMR	TRANSFORMER	DB	DISTRIBUTION BOARD
		DC	DIRECT CURRENT
		DL	DAY-LIGHTING
		DISC	DISCONNECT SWITCH
		E	EMERGENCY
		ECB	ENCLOSED CIRCUIT BREAKER
		EWC	ELECTRIC WATER COOLER
		EX	EXISTING
		FUT	FUTURE
		FA	FIRE ALARM
		FACP	FIRE ALARM CONTROL PANEL
		FATC	FIRE ALARM TERMINAL CABINET
		FDR	FEEDER
		GAA	GENERATOR ALARM ANNUNCIATOR
		GAP	GENERATOR ALARM PANEL
		GEN	GENERATOR
		GEC	GROUNDING ELECTRODE CONDUCTOR
		GFI	GROUND FAULT CIRCUIT INTERRUPTER
		GFCI	GROUND FAULT CIRCUIT INTERRUPTER
		GFEP	GROUND FAULT EQUIPMENT PROTECTION
		GFP	GROUND FAULT PROTECTION
		GND	GROUND
		GRS	GALVANIZED RIGID STEEL
		HH	HAND HOLE
		HOA	HAND-OFF AUTOMATIC
		HP	HORSEPOWER
		IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
		IG	ISOLATED GROUND
		KCMIL	THOUSAND CIRCULAR MILS
		KV	KILOVOLT
		KVA	KILOVOLT AMPS
		KW	KILOWATT
		KWH	KILOWATT HOURS
		LC	LIGHTING CONTACTOR
		LS	LIQUID SPEAKER
		LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT PROTECTION
		MAX	MAXIMUM
		MCB	MAIN CIRCUIT BREAKER
		MCC	MOTOR CONTROL CENTER
		MDF	MAIN DISTRIBUTION PANEL
		MIN	MINIMUM
		MH	MAN HOLE
		MLO	MAIN LUGS ONLY
		MTS	MANUAL TRANSFER SWITCH
		N/A	NOT APPLICABLE
		NC	NORMALLY CLOSED
		NEC	NATIONAL ELECTRIC CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
		N or NEUT	NEUTRAL
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
		NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
		OH	OVER HEAD
		O/H	OVER HEAD
		P	POLE
		PA	PUBLIC ADDRESS
		PB	PULL BOX
		PC	PHOTOCELL
		PCH	PHASE POTENTIAL TRANSFORMER
		PT	POTENTIAL TRANSFORMER
		RC	RECEPTACLE CONTACTOR
		RSC	RIGID STEEL CONDUIT
		SEC	SECURITY

LIGHTING FIXTURE SCHEDULE

SYMBOL	SIZE	MOUNTING	VOLT	MANUFACTURER AND MODEL NO.	EQUALS	DESCRIPTION	LAMP	WATTS
A	17" DIAM X 18"H	PENDANT MOUNT AT 20" AFF	120/277	LITHONIA 42BL-3000LM-ACFRA-CRON-MVOLT-G210-40K-80CR-PFWG	HUBBELL KENALL	LED PENDANT DOME LIGHT WITH ACRYLIC REFLECTOR AND FULL WIRE GUARD. COORDINATE FINISHES AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING AND ROUGH IN.	LED 4000K 3000 LUMENS	243
B	4L X4"D X 3"H	WALL MOUNTED COORDINATE HEIGHT WITH ARCHITECT	120/277	VISA #CV1704-L35K-HMVOLT	PRUDENTIAL OR LITECONTROL	LED WALL MOUNTED VANITY LIGHT UP/DOWN WALL WASH	LED 3500K 2500 LUMEN	33
BE	4L X4"D X 3"H	WALL MOUNTED COORDINATE HEIGHT WITH ARCHITECT	120/277	VISA #CV1704-L35K-HMVOLT	PRUDENTIAL OR LITECONTROL	SAME AS TYPE B EXCEPT WITH 90 MINUTE BATTERY BACK-UP	LED 3500K 2500 LUMEN	33
C	4L X4"W X 4"H	PENDANT MOUNT OR SURFACE MOUNT ON	120/277	LITHONIA 82LN-L48-3000LM-MDD-MVOLT-40K-80CR-WH-ZACVH	DAYBRITE OR WILLIAMS	LED STRIP LIGHT WITH FLAT DIFFUSE LENS. PENDANT MOUNT WITH AIRCRAFT CABLES DOWN TO 10" AFF OR SURFACE MOUNT ON CEILING WHERE CEILING IS 10" AFF OR LESS.	LED 4000K 3000 LUMEN	42
CE	4L X4"W X 4"H	PENDANT MOUNT OR SURFACE MOUNT ON	120	LITHONIA 82LN-L48-3000LM-MDD-MVOLT-40K-80CR-WH-ZACVH-BL72	DAYBRITE OR WILLIAMS	SAME AS TYPE C EXCEPT WITH 90 MINUTE BATTERY BACKUP	LED 4000K 3000 LUMEN	42
DE	6" DIAM X 8"H	RECESSED	120/277	GOTHAM #EVO-3520-6ARM-WD-LSS-MVOLT-ELR	PATHWAY OR WILLIAMS	6" OPEN LED DOWNLIGHT WITH 90 MINUTE BATTERY BACK-UP	LED 3500K 2000 LUMEN	24
GE	17"W X11"D X 9"H	WALL MOUNTED COORDINATE HEIGHT WITH ARCHITECT	120/277	LITHONIA #WSTLED-P2-40K-VF-MVOLT-E2WC	GARDOO OR WILLIAMS	LED TRAPEZOIDAL WALL PACK WITH FORWARD THROW OPTICS. PROVIDE 20W COLD WEATHER 90 MINUTE BATTERY BACKUP. FINISH SHALL BE SELECTED BY ARCHITECT.	LED 4000K 3000 LUMENS	25
S	6" DIAM X 8"H	RECESSED	120/277	GOTHAM #EVO-35K-20-6-DFRARM-MVOLT	PATHWAY OR WILLIAMS	LED LENSED SHOWER LIGHT WITH DEAFRONT AND ANTI-MICROBIAL FINISH	LED 3500K 2000 LUMEN	24
XI	8 5/8" X 12 7/8" X 1 7/8"	UNIVERSAL	120/277	EMERGILITE 800-PAN-1R	DUALITE OR LITHONIA	SINGLE FACE LED EXIT SIGN WITH 90 MINUTE BATTERY BACK-UP. ARCHITECT TO SELECT COLOR/FINISH. PROVIDE WIRE GUARDS IN MULTIPURPOSE SPACE	LED	5

NOTE: ALL FINISHES AND CUSTOM COLORS SHALL BE SELECTED BY ARCHITECT. FINAL FIXTURE LOCATIONS SHALL BE DICTATED BY RCP. CONTRACTOR SHALL REFER TO ARCHITECTURAL RCP FOR LOCATIONS.



POWER RISER

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
○ OR □	EXISTING LIGHT FIXTURE - LETTER DESIGNATES TYPE	
□ OR □	LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHEDULE
⊗	EXIT LIGHT - ARROW INDICATES DIRECTION, SHADING INDICATES ILLUMINATED FACE	SEE FIXTURE SCHEDULE
⊙	WALL MOUNTED EXIT LIGHT - ARROW INDICATES DIRECTION, SHADING INDICATES ILLUMINATED FACE	SEE FIXTURE SCHEDULE
○	LED LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHEDULE
○ OR ⊙	EMERGENCY LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHEDULE
□	EXISTING BATTERY POWERED EMERGENCY FIXTURE - WALL/CEILING MOUNTED	
S	SINGLE POLE TOGGLE SWITCH - +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL 1221-X WITH 97071 COVER. EQUALS: LEVITON, P&S
S ₃	3-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET	HUBBELL 1223-X WITH 97071 COVER. EQUALS: LEVITON, P&S
S ₃ ⊃	3-WAY 0-10V SLIDE DIMMER SWITCH WITH ON/OFF SWITCH	LUTON MAESTRO OR EQUAL BY LEVITON OR P&S
S ₄	4-WAY SWITCH - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET	HUBBELL 1224-X WITH 97071 COVER. EQUALS: LEVITON, P&S
S ₄ ⊃	SINGLE POLE 0-10V SLIDE DIMMER SWITCH WITH ON/OFF 3-WAY SWITCH	LUTON MAESTRO OR EQUAL BY LEVITON OR P&S
S ₄ ⊃	120 VOLT MOTOR RATED TOGGLE DISCONNECT SWITCH WITH JUNCTION BOX	
⊙	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR - TIME DELAYS OF NO LESS THAN 15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	WATTSTOPPER DT-300 OR EQUAL BY HUBBELL OR SYSTEM SENSOR
⊙	DUAL TECHNOLOGY WALL SWITCH SENSOR - COVERAGE: MAJOR MOTION 35'X30', MINOR MOTION 20'X15'. TIME DELAYS OF NO LESS THAN 15 MINUTES. MOUNT AT +48" TO TOP OF OUTLET BOX. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	WATTSTOPPER DW100 OR APPROVED EQUAL BY HUBBELL OR SYSTEM SENSOR
⊙	DUPLEX, TAMPER RESISTANT GROUNDING TYPE RECEPTACLE - AT +16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED	HUBBELL HBL 5362-TR WITH 97101 COVER. EQUALS: LEVITON, P&S
⊙	DUPLEX, TAMPER RESISTANT RECEPTACLE - GROUND FAULT INTERRUPTION TYPE - INSTALL AT +16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL GPGS-5362 WITH SS26 COVER. EQUALS: LEVITON, P&S
⊙	WEATHER RESISTANT, TAMPER RESISTANT, DUPLEX GROUNDING TYPE RECEPTACLE WITH WEATHERPROOF, 'IN-USE', DIE CAST, GRAY COVER MOUNTED AT +16" ABOVE GRADE TO BOTTOM OF OUTLET BOX, UNLESS OTHERWISE NOTED	HUBBELL GFSG-5362 WITH TAYMAC COVER. EQUALS: P&S, LEVITON
⊙	TWO DUPLEX, TAMPER RESISTANT, GROUNDING TYPE RECEPTACLES IN A DOUBLE GANG BOX. MOUNT AT +16" AFF TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED. PROVIDE WITH STAINLESS STEEL COVER.	HUBBELL HBL 5362-TR WITH 97101 COVER. EQUALS: P&S, LEVITON
△ #	DATA OUTLET - ADA AFF TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED. STUB 1" CONDUIT OUT ABOVE THE NEAREST LAY-IN CEILING. SUBSCRIPT SHALL INDICATE THE NUMBER OF DATA DROPS REQUIRED. IF NO NUMBER IS INDICATED, PROVIDE A MINIMUM OF (2) CAT-6 PLENUM DROPS.	SINGLE GANG BOX WITH STAINLESS STEEL COVER.
⊙	WIRELESS ACCESS POINT WITH CAT-6 DATA DROP. REFER TO PLANS FOR LOCATIONS.	
⊙	120/208 VOLT PANELBOARD WITH NEUTRAL AND GROUND BUS ACCESSORIES.	
⊙	SURGE PROTECTIVE DEVICE	SEE SPECIFICATIONS
⊙	DISCONNECT SWITCH, HEAVY DUTY.	SEE SPECIFICATIONS
⊙	MECHANICALLY HELD LIGHTING CONTACTOR. # INDICATES CONTACTOR NUMBER. PROVIDE NUMBER OF CONTACTS AS REQUIRED. PROVIDE HAND OFF AUTO SWITCH FOR EACH LIGHTING CONTACTOR.	
⊙	WIRING AND CONDUIT INSTALLED CONCEALED IN WALL SPACE OR ABOVE FINISHED CEILING	
⊙	UNSWITCHED WIRING AND CONDUIT LEG ON LIGHTING PLANS. UNDER FLOOR WIRING AND CONDUIT ON POWER PLANS. UNDER GROUND WIRING AND CONDUIT ON SITE PLANS.	
⊙	HOME RUN CIRCUIT TO PANELBOARD	
⊙	JUNCTION BOX WITH REMOVABLE COVER - SIZE PER NATIONAL ELECTRICAL CODE	
⊙	I/P CAMERA	
S #CD	FIRE ALARM SIGNAL - VISUAL, WALL MOUNTED AT +84" ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF. #CD INDICATES CANDELA RATING OF STROBE.	SEE SPECIFICATIONS
S #CD	CEILING MOUNTED FIRE ALARM STROBE - #CD INDICATES CANDELA RATING OF STROBE	SEE SPECIFICATIONS
F	MANUAL FIRE ALARM PULL STATION - INSTALL AT +48" ABOVE FINISHED FLOOR TO TOP OF BOX (DOUBLE ACTION).	SEE SPECIFICATIONS
V #CD	FIRE ALARM SIGNAL - SPEAKER WITH VISUAL. "WP" INDICATES WEATHERPROOF. #CD INDICATES CANDELA RATING OF STROBE. INTERIOR: WALL MOUNTED AT +84" ABOVE FINISHED FLOOR. EXTERIOR: SEE ARCHITECTURAL DETAIL A02.02-6.	SEE SPECIFICATIONS
⊙	PHOTOELECTRIC TYPE SMOKE DETECTOR - CEILING MOUNTED	SEE SPECIFICATIONS
⊙	HEAT DETECTOR - FIXED TEMPERATURE (135°F @ MECHANICAL ROOMS)	SEE SPECIFICATIONS
⊙	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE - #CD INDICATES CANDELA RATING OF STROBE	SEE SPECIFICATIONS
⊙	CEILING MOUNTED FIRE ALARM SPEAKER	SEE SPECIFICATIONS
FACP	ADDRESSABLE FIRE ALARM PANEL BY SIMPLEX, NOTIFIER, OR EST.	SEE SPECIFICATIONS
FACP	ADDRESSABLE REMOTE FIRE ALARM ANNUNCIATOR PANEL WITH MICROPHONE FOR LIVE VOICE OVERRIDE MESSAGES	SEE SPECIFICATIONS
FACP	ADDRESSABLE REMOTE FIRE ALARM CONTROL PANEL	SEE SPECIFICATIONS
⊙	SHUTDOWN RELAY FOR AHU'S - WIRE INTO FIRE ALARM SYSTEM	SEE SPECIFICATIONS
⊙	DUCT TYPE PHOTOELECTRIC SMOKE DETECTOR AND SAMPLING TUBE INSTALLED IN MECHANICAL DUCTWORK PROVIDED BY ELECTRICAL CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR WITH FINAL CONNECTIONS BY ELECTRICAL CONTRACTOR.	SEE SPECIFICATIONS
INV	EMERGENCY LIGHTING INVERTER (2100VA) WITH VRLA BATTERY AND (8) OUTPUT BREAKERS. TRUE SINE WAVE OUTPUT.	SEE SPECIFICATIONS
⊙	FIRE ALARM TAMPER SWITCH	SEE SPECIFICATIONS
⊙	FIRE ALARM FLOW SWITCH	SEE SPECIFICATIONS
⊙	FIRE ALARM MONITOR MODULES	SEE SPECIFICATIONS
⊙	FIRE ALARM RELAY MODULES	SEE SPECIFICATIONS
⊙	FIRE ALARM TEMPERATURE SENSOR	SEE SPECIFICATIONS
⊙	FIRE ALARM NAC PANEL	SEE SPECIFICATIONS
⊙	FIRE ALARM SPEAKER AMPLIFIER CABINET	SEE SPECIFICATIONS
⊙	EMERGENCY LIGHTING TRANSFER DEVICE - 20 AMPS OF CAPACITY WITH AUXILIARY CONTACTS FOR 0-10V DIMMING OVERRIDE.	SEE SPECIFICATIONS
⊙	HVAC CONTROL PANEL FURNISHED BY HVAC CONTROLS CONTRACTOR	
⊙	VARIABLE FREQUENCY DRIVE BY HVAC CONTROLS CONTRACTOR	

GENERAL NOTES

A.	THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
B.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
C.	ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. REFER TO THE SPECIFICATIONS FOR MORE DETAILED INFORMATION.
D.	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.
E.	IN ALL AREAS WHERE FIRE RATED WALL, FLOOR, OR CEILINGS ARE INSTALLED, ALL PENETRATIONS OF ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIAL SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE BUILDING CONSTRUCTION.
F.	ALL FUSES, DISCONNECT SWITCHES AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT. REFER TO DETAIL OF THIS SHEET.
G.	ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES AND ORDINANCES.
H.	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 REQUEST OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
I.	ALL CONDUITS (WITH OR WITHOUT WIRES) SHALL BE COLOR CODED WITH 1/2" WIDE PAINT OR TAPE, 10' ON CENTER, USE COLORS AS IDENTIFIED IN SPECIFICATIONS.
J.	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.
K.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SWITCHES, RECEPTACLES, CONDUIT, WIRING, PANELS, ETC. UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED.
L.	THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION.
M.	WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
N.	ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE OTHER CONTRACTORS. WATERPROOFING OF THE ROOF PENETRATION SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR.
O.	THERE SHALL BE NO HORIZONTAL RUNS OF CONDUIT WITHIN CMU WALLS LONGER THAN 6'. IF A LONGER RUN IS REQUIRED, RUN CONDUIT ABOVE CEILING OR BELOW SLAB AND THEN VERTICALLY UP OR DOWN WITHIN CMU WALL.
P.	OUTLET BOXES ON OPPOSITE SIDES OF THE FIRE RESISTANT WALL OR SHAFT ENCLOSURE RATED TWO HOURS OR LESS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" AS REQUIRED BY NCSBO VOL. 1, PARAGRAPH 705.4.3.
Q.	PHENOLIC NAMEPLATES FOR PANELS, DISCONNECTS, ETC. SHALL BE COLOR CODED. USE COLORS AS IDENTIFIED IN SPECIFICATIONS.

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
D	EXISTING DATA RACK	
⊙	SPRINKLER BELL	
⊙	MOTOR OPERATED DAMPER	
AHU-#	FIRE ALARM REMOTE ALARM INDICATING LIGHT (RAIL)	
⊙	OVERRIDE SWITCH BY HVAC CONTROLS CONTRACTOR - CONNECTED TO BAS SYSTEM	REFER TO MECHANICAL CONTROLS SEQUENCE OF OPERATIONS AND SPECIFICATION 260923

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:
 ENERGY CODE: PRESCRIPTIVE PERFORMANCE _____
 ASHRAE 90.1: PRESCRIPTIVE _____ PERFORMANCE _____

LIGHTING SCHEDULE
 Lamp type required in fixture - See Fixture Schedule.
 Number of lamps in fixture - See Fixture Schedule.
 Ballast type used in the fixture - See Specifications.
 Number of ballasts in fixture - See Specifications.
 Total wattage per fixture - Varies - See Fixture Schedule
 Total interior wattage specified versus allowed: 5905 watts versus 10483 watts (whole building)
 Total exterior wattage specified versus allowed: 75 watts versus 1290 watts

ADDITIONAL PRESCRIPTIVE COMPLIANCE
 406.2 More Efficient HVAC Performance
 406.3 Reduced Lighting Power Density
 406.4 Enhanced Lighting Controls
 406.5 On-Site Supply of Renewable Energy
 406.6 Provision of Dedicated Outdoor HVAC Air System
 406.7 High Efficiency Service Water Heating

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 2018 North Carolina State Building Code, Energy Conservation Code.

ENERGY FORM

CONSULTANT

SEAL

pdc
 Progressive Design Collaborative, Inc.
 3101 Poplunwood Court, Suite 300
 Raleigh, North Carolina 27604
 919-793-0959
 License# C-0183
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163		
NO	REVISION	DATE

SEAL

J K F
 ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
 CLINTON, NC

DRAWING TITLE
ELECTRICAL LEGEND AND SYMBOLS PLAN

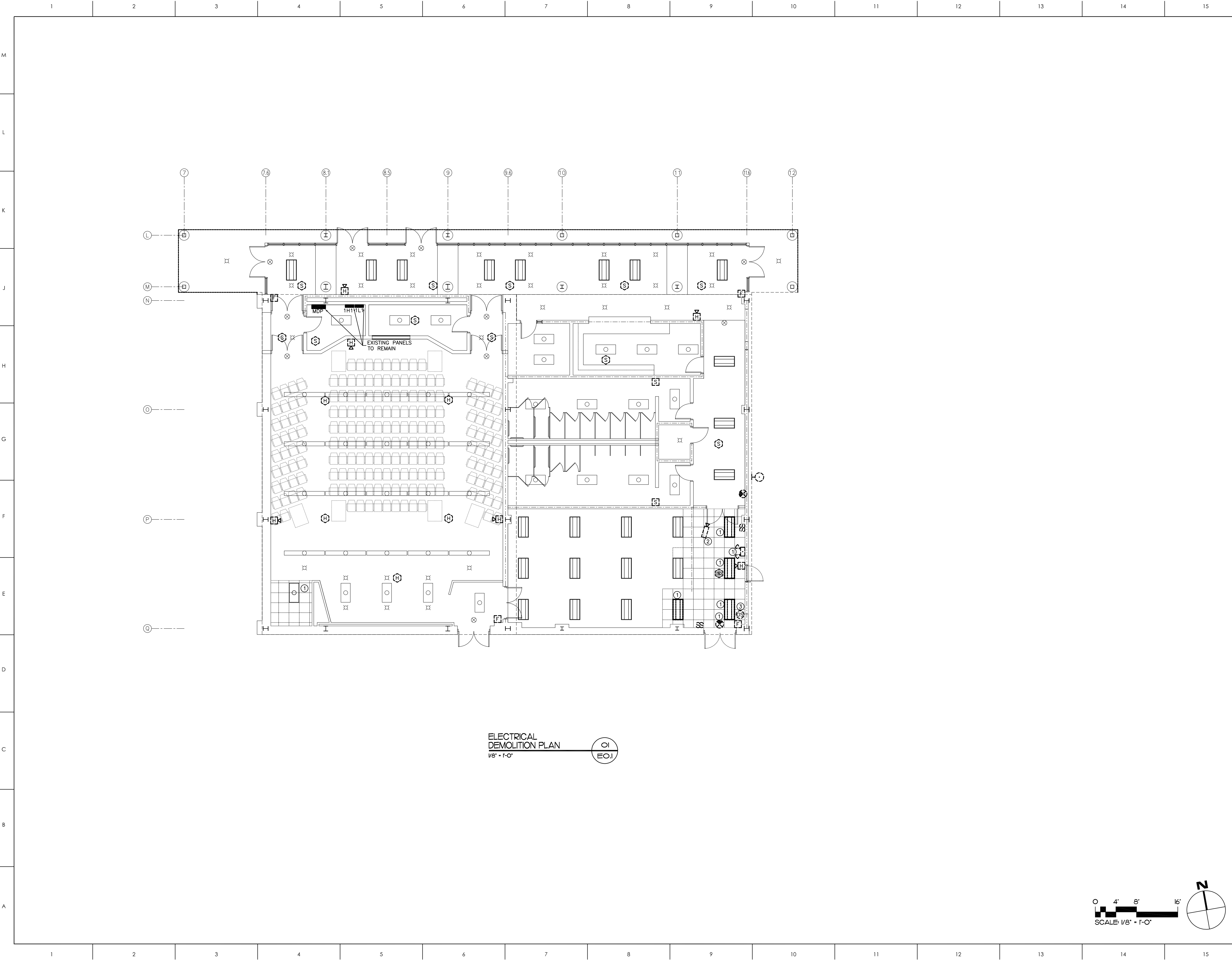
SCALE
1/8"=1'-0"

DRAWN
JPT

CHECKED
JTB

DATE
5-20-2024

PROJECT NO.
2016-20B



GENERAL NOTES:

A. ALL DEVICES SHOWN DASHED SHALL BE REMOVED IN THEIR ENTIRETY. THIS INCLUDES ANY EXPOSED RACEWAYS AND ALL WIRING.

KEYNOTES:

- ① REMOVE EXISTING LIGHT FIXTURES TO BE REINSTALLED IN NEW WORK.
- ② REMOVE EXISTING SECURITY CAMERA TO BE REINSTALLED IN NEW WORK.
- ③ REMOVE EXISTING OCCUPANCY SENSOR TO BE REINSTALLED IN NEW WORK.

CONSULTANT

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
024651
ENGINEER
JAMES T. BUTKOVICH
06/13/2024

Progressive Design Collaborative, Ltd.
3101 Poplarwood Court, Suite 300
 Raleigh, North Carolina 27604
 919.703.0969
 License# C-01183
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

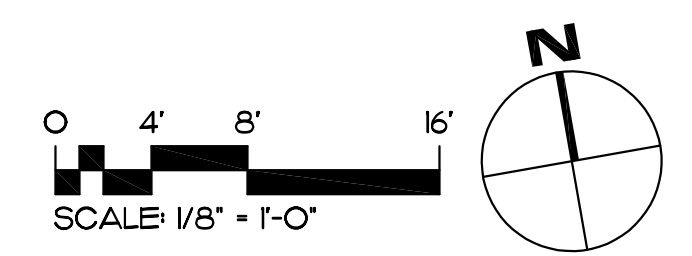
625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION
CLINTON, NC

DRAWING TITLE

FIRST FLOOR DEMOLITION PLAN

<small>SCALE</small>	<small>DRAWING NO.</small>
1/8" = 1'-0"	EO.1
<small>DRAWN</small>	JPT
<small>CHECKED</small>	JTB
<small>DATE</small>	5-20-2024
<small>PROJECT NO.</small>	2016-20B

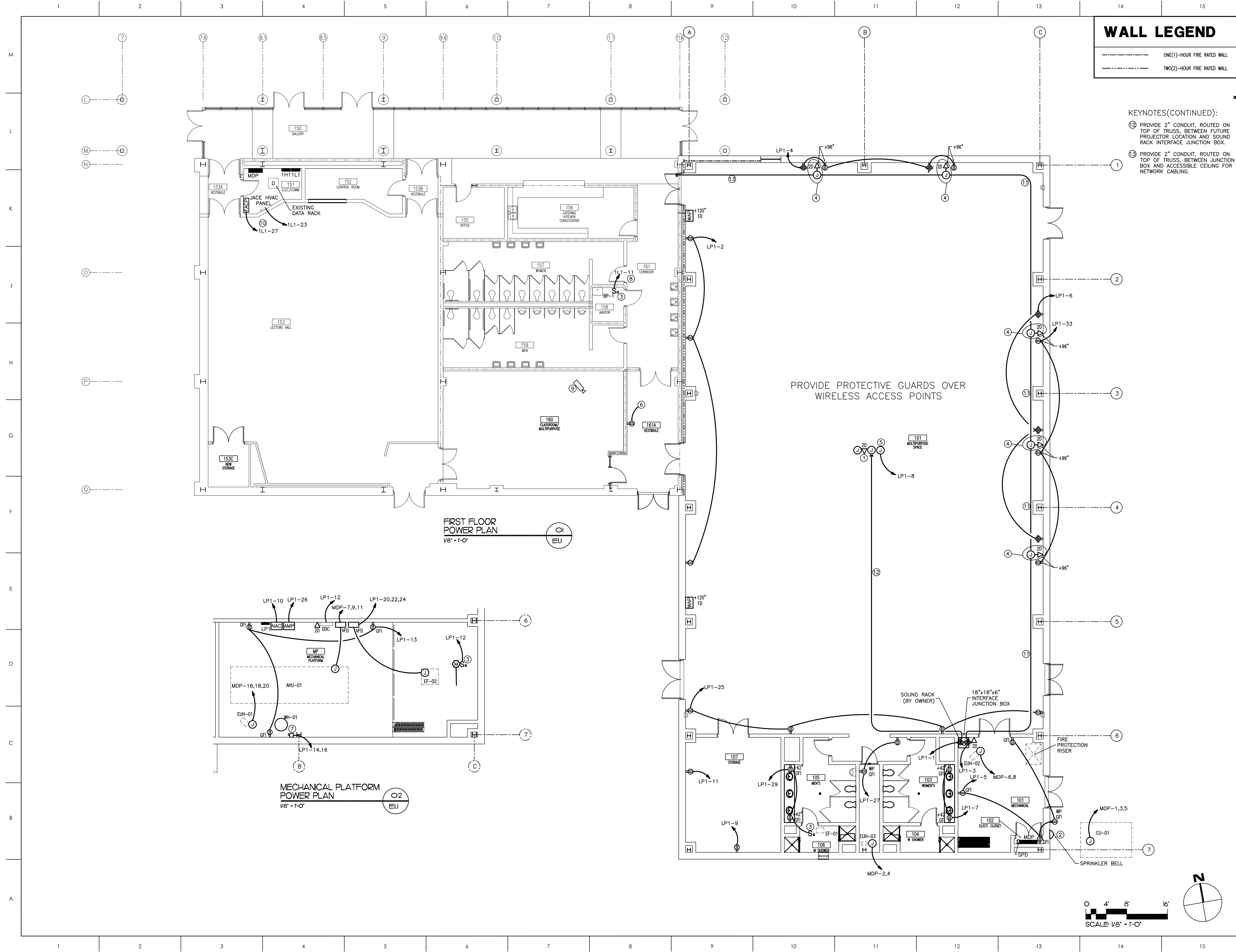


ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

01

EO.1

Project #: 2016-20B
 Printed On: 6/13/2024 @ 2:02 PM
 Sheet: ED-1



WALL LEGEND

	ONE(1)-HOUR FIRE RATED WALL
	TWO(2)-HOUR FIRE RATED WALL

KEYNOTES(CONTINUED):

- 12 PROVIDE 2" CONDUIT, ROUTED ON TOP OF TRUSS, BETWEEN FUTURE PROJECTOR LOCATION AND SOUND RACK INTERFACE JUNCTION BOX.
- 13 PROVIDE 2" CONDUIT, ROUTED ON TOP OF TRUSS, BETWEEN JUNCTION BOX AND ACCESSIBLE CEILING FOR NETWORK CABLING.

- #### GENERAL NOTES:
1. ALL NEW DATA CABLES SHALL BE ROUTED BACK TO EXISTING DATA RACK IN EXISTING ELEC/COMM 151. PROVIDE NEW J-HOOKS OR OTHER RACEWAY AS REQUIRED. #D NEXT TO OUTLET OR WAP INDICATES QUANTITY OF CAT-6 DROPS AT THAT LOCATION.
 2. ALL LOW VOLTAGE CABLING ROUTED IN OR THROUGH MULTIPURPOSE SPACE SHALL BE IN A MINIMUM OF 3/4" CONDUIT.
 3. ALL EMPTY CONDUITS SHALL HAVE PULL CORDS.
- #### KEYNOTES:
- 1 PROVIDE (2)-(2" CONDUITS FROM FUTURE SOUND SYSTEM LOCATION BACK TO AV RACK IN STORAGE 101.
 - 2 SPRINKLER BELL SHALL BE 24 VOLT ELECTRIC BELL AND TIED TO FIRE ALARM SYSTEM. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
 - 3 120 VOLT, 20 AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR PLUMBING OR MECHANICAL EQUIPMENT. COORDINATE FINAL LOCATION WITH PLUMBING OR MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - 4 PROVIDE DOUBLE GANG DEEP JUNCTION BOX WITH 1 1/4" CONDUIT, CONCEALED IN WALL, TO JUNCTION BOX IN CEILING FOR FUTURE SOUND SYSTEM/AV. COORDINATE FINAL LOCATION AND CONNECTIONS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
 - 5 PROVIDE JUNCTION BOX WITH SPARE CIRCUIT FOR FUTURE PROJECTOR. COORDINATE WITH OWNER FOR EXACT LOCATION.
 - 6 EXTEND EXISTING RECEPTACLE BRANCH CIRCUIT TO NEW RECEPTACLES UTILIZING 2 #12, 1 #12G IN 3/4" CONDUIT.
 - 7 240 VOLT, 30 AMP, 2 POLE, NEMA-1, FUSED DISCONNECT SWITCH. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.
 - 8 PROVIDE NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER IN PANEL L1 AS INDICATED UTILIZING 2 #10, 1 #10 GROUND IN 3/4" CONDUIT FOR BOOSTER PUMP. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.
 - 9 REINSTALL EXISTING SECURITY CAMERA IN NEW LOCATION. COORDINATE PLACEMENT AND AIMING WITH OWNER'S SECURITY DEPARTMENT.
 - 10 INTERCEPT EXISTING FIRE ALARM PANEL BRANCH CIRCUIT AND EXTEND (2 #12, 1 #12G IN 3/4") TO NEW PANEL LOCATION.
 - 11 PROVIDE 3" CONDUIT, ROUTED ON TOP OF TRUSS, BETWEEN JUNCTION BOXES.

CONSULTANT

PROFESSIONAL SEAL

024651

ENGINEER

JAMES T. BUTKOVICH

06/13/2024

pdc

Progressive Design Collaborative, Inc.

3101 Poplinswood Court, Suite 300
Raleigh, North Carolina 27604
919-793-0969
License# C-0183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

JKF

ARCHITECTURE

625 LYNMADDE CT, SUITE E, GREENVILLE, NC 27858 252-355-1048

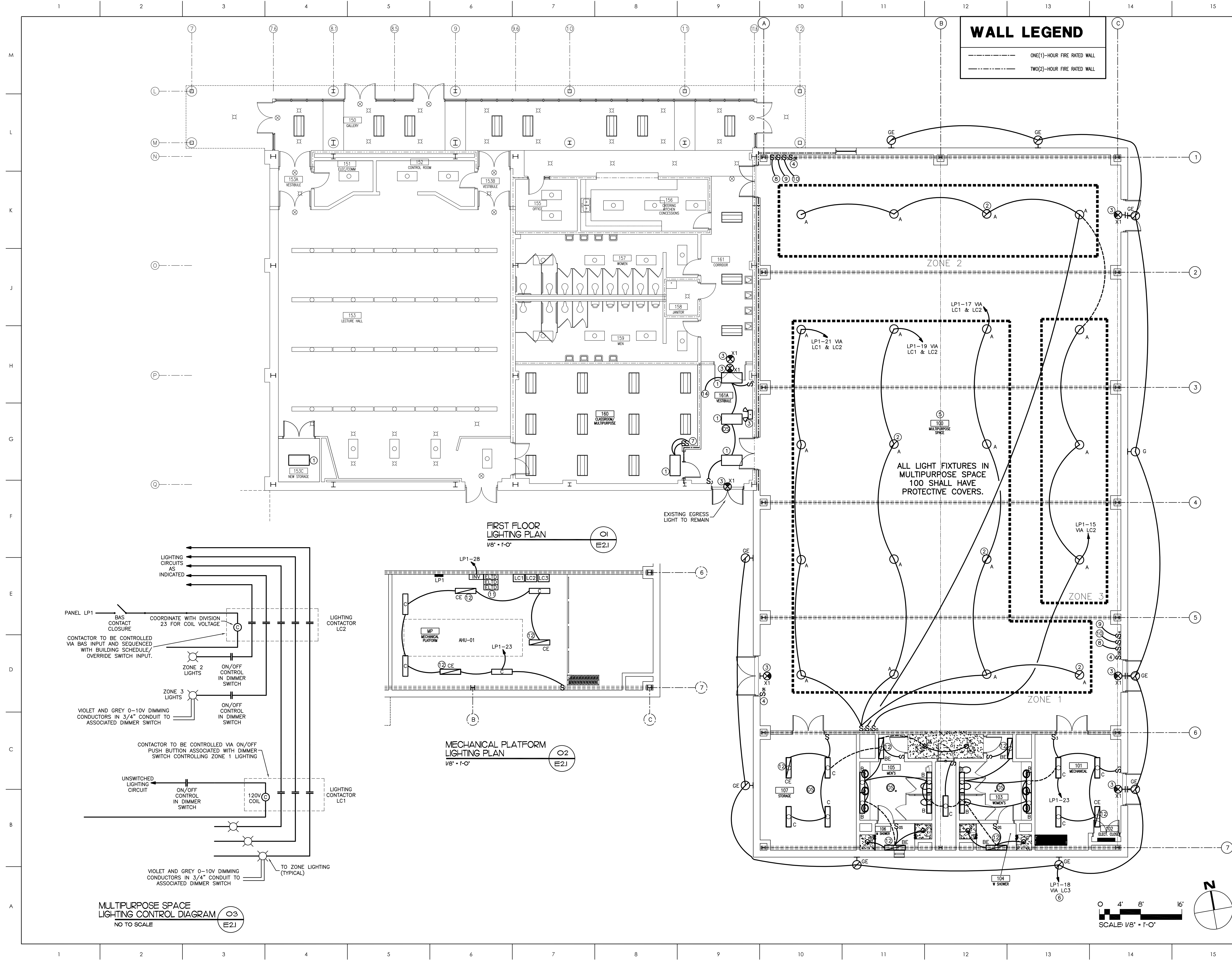
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **POWER PLANS**

SCALE: 1/8"=1'-0"	DRAWING NO:
DRAWN: JPT	E.I.I.
CHECKED: JTB	
DATE: 5-20-2024	
PROJECT NO: 2016-20B	

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Project #: 24010
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 Sheet: E1-1



WALL LEGEND

--- ONE(1)-HOUR FIRE RATED WALL

--- TWO(2)-HOUR FIRE RATED WALL

- GENERAL NOTES:**
- A. SEE ARCHITECT'S RCP FOR FINAL CEILING TYPES AND LAYOUT.
- KEYNOTES:**
- 1 REINSTALL EXISTING LIGHT FIXTURES IN NEW CEILING. RELAMP AND CLEAN EXISTING FIXTURE. EXTEND EXISTING LIGHTING BRANCH CIRCUIT (2 #12, 1 #12G IN 3/4" C) AS REQUIRED.
 - 2 FIXTURE SHALL BE POWERED VIA EMERGENCY LIGHTING INVERTER AND EMERGENCY LIGHTING TRANSFER DEVICE SO THAT FIXTURE TURNS ON/OFF AND DIMS WITH OTHER FIXTURES BUT ILLUMINATES TO FULL BRIGHTNESS IN THE EVENT OF POWER FAILURE.
 - 3 EMERGENCY FIXTURE SHALL BE TIED TO UNSWITCHED NORMAL POWER LIGHTING CIRCUIT IN THIS SPACE.
 - 4 BAS OVERRIDE SWITCH SHALL OVERRIDE SCHEDULED OFF LIGHTING EVENT. REFER TO SPECIFICATIONS FOR SEQUENCE.
 - 5 REFER TO LIGHTING CONTROL WIRING DIAGRAM ON THIS SHEET FOR SWITCHING CONTROLS IN THIS SPACE.
 - 6 EXTERIOR LIGHTING SHALL BE CONTROLLED VIA BAS INPUT ON CONTACTOR COIL. COORDINATE TIME OF DAY PROGRAMMING WITH OWNER. EXTEND UNSWITCHED LIGHTING CIRCUIT TO FIXTURES TO MAINTAIN BATTERY CHARGE. FIXTURES SHALL ILLUMINATE UPON LOSS OF NORMAL POWER.
 - 7 REWIRE FIXTURES INTO NEW SWITCHES FOR INBOARD/OUTBOARD CONTROL.
 - 8 WIRE SWITCH TO CONTACTOR TO CONTROL ZONE 1 LIGHTS.
 - 9 WIRE SWITCH TO CONTACTOR TO CONTROL ZONE 2 LIGHTS.
 - 10 WIRE SWITCH TO CONTACTOR TO CONTROL ZONE 3 LIGHTS.
 - 11 PROVIDE EMERGENCY LIGHTING TRANSFER DEVICES FOR EMERGENCY LIGHTING POWERED FROM INVERTER. EXTEND SWITCHED AND UNSWITCHED NORMAL POWER CIRCUITS AS WELL AS UNSWITCHED INVERTER CIRCUIT TO EACH TRANSFER DEVICE.
 - 12 EMERGENCY EGRESS FIXTURE WITH 90 MINUTE BATTERY BACK-UP. WIRE FIXTURE SO THAT FIXTURE TURNS ON/OFF WITH OTHER FIXTURES, BUT UPON LOSS OF NORMAL POWER, FIXTURE SHALL ILLUMINATE.
 - 13 NIGHT LIGHT WITH 90 MINUTE BATTERY BACK-UP. FIXTURE SHALL ILLUMINATE UPON LOSS OF NORMAL POWER.
 - 14 WIRE FIXTURES INTO EXISTING LIGHTING CIRCUIT ADDING SWITCHES AND OCCUPANCY SENSORS.

CONSULTANT

SEAL

J K F ARCHITECTURE

PROGRESSIVE DESIGN COLLABORATIVE, LTD.

3101 Popplewood Court, Suite 300
Raleigh, North Carolina 27604
919.793.0969
License # C-0183
PDC #24010

06/13/2024

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

J K F ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE

FIRST FLOOR LIGHTING PLAN

SCALE

1/8" = 1'-0"

DRAWING NO

E2.1

DRAWN

JPT

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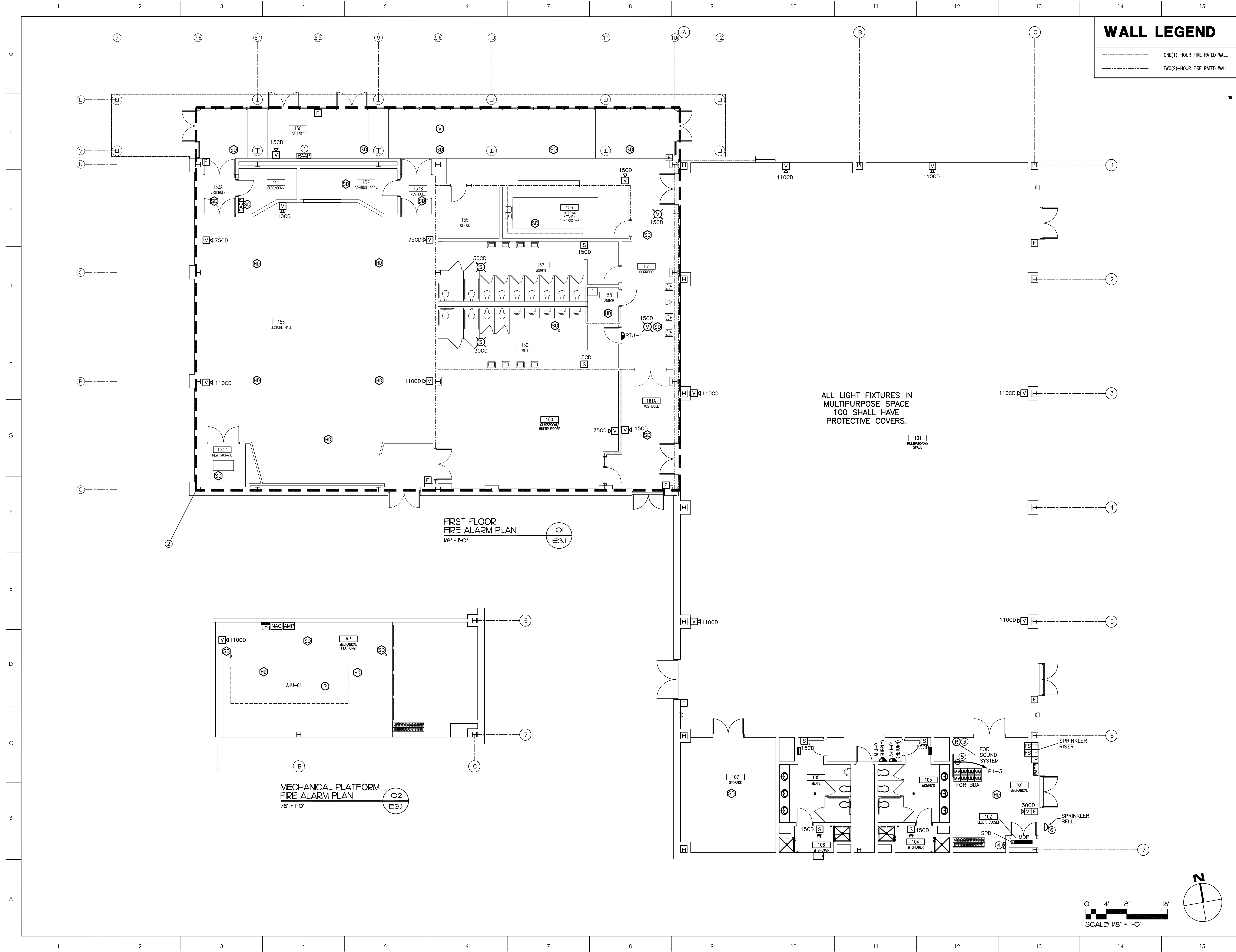
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DATE

5-20-2024

PROJECT NO.

2016-20B



WALL LEGEND

- - - - -	ONE(1)-HOUR FIRE RATED WALL
- - - - -	TWO(2)-HOUR FIRE RATED WALL

- GENERAL NOTES:**
- A. PROVIDE LEXAN COVERS ON ALL PULL STATIONS IN MULTIPURPOSE SPACE.
 - B. PROVIDE WIRE GUARD COVERS ON ALL FIRE ALARM DEVICES IN MULTIPURPOSE SPACE.
 - C. FIRE ALARM DEVICES IN EXISTING BUILDING TO BE COMPATIBLE WITH NEW VOICE EVACUATION SYSTEM AND BE NFPA 72 COMPLIANT.
 - D. ALL FIRE ALARM WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.

- KEYNOTES:**
- ① PROVIDE REMOTE ANNUNCIATOR PANEL IN SAME LOCATION AS EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED. EXISTING BACK BOX MAY BE REUSED IF POSSIBLE. PROVIDE NEW CUSTOM COVER TO FIT EXISTING OPENING. CONTRACTOR SHALL FIELD MEASURE OPENING TO DETERMINE THE APPROPRIATE COVER. CONTRACTOR SHALL CUT WALL AS REQUIRED TO FIT NEW BACK BOX IF NEEDED.
 - ② EXISTING DEVICES SHALL BE REPLACED ONE FOR ONE WITH NEW VOICE EVACUATION DEVICES UNLESS OTHERWISE INDICATED. ALL NEW WIRING SHALL BE PROVIDED. CONDUIT MAY BE REUSED WHERE POSSIBLE.
 - ③ PROVIDE RELAY FOR SOUND SYSTEM TO MUTE UPON GENERAL ALARM.
 - ④ PROVIDE (2)-2" CONDUITS FOR FIRE ALARM WIRING TO FIRE PUMP HOUSE. CONDUITS EXTERIOR TO BUILDING SHALL BE CONCRETE ENCASED WITH A MINIMUM OF 3" CONCRETE ON ALL SIDES AND BURIED A MINIMUM OF 24" BELOW GRADE TO TOP OF CONCRETE.
 - ⑤ PROVIDE AND INSTALL 4"x4"x3/4" FIRE RETARDANT PLYWOOD BACK BOARD FOR BDA SYSTEM EQUIPMENT AND MONITOR MODULES. REFER TO DETAIL.
 - ⑥ COORDINATE LOCATION OF SPRINKLER BELL WITH FIRE PROTECTION CONTRACTOR.

ALL LIGHT FIXTURES IN MULTIPURPOSE SPACE 100 SHALL HAVE PROTECTIVE COVERS.

**FIRST FLOOR
FIRE ALARM PLAN**
1/8" = 1'-0" O1
E3.1

**MECHANICAL PLATFORM
FIRE ALARM PLAN**
1/8" = 1'-0" O2
E3.1

CONSULTANT

NORTH CAROLINA
 PROFESSIONAL
 SEAL
 024651
 JAMES T. BUTKOVICH
 ENGINEER
 06/13/2024

Progressive Design Collaborative, Inc.
 3101 Popplewood Court, Suite 300
 Raleigh, North Carolina 27604
 919.793.0999
 License# C-01183
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

JKF

ARCHITECTURE

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

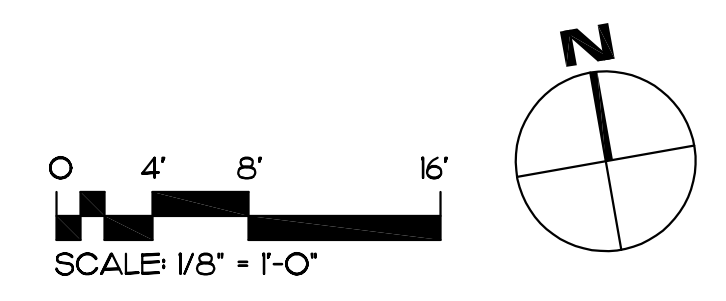
SAMPSON COMMUNITY
COLLEGE ACTIVITIES
BUILDING ADDITION
CLINTON, NC

DRAWING TITLE

FIRE ALARM PLANS

SCALE	DRAWING NO.
1/8"=1'-0"	
DRAWN	E3.1
CHECKED	JPT
DATE	JTB
5-20-2024	
PROJECT NO.	
2016-20B	

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Project #: 24010
 Printed On: 5/20/24
 Date: 5/20/24
 Sheet: E3.1

GENERAL NOTES:

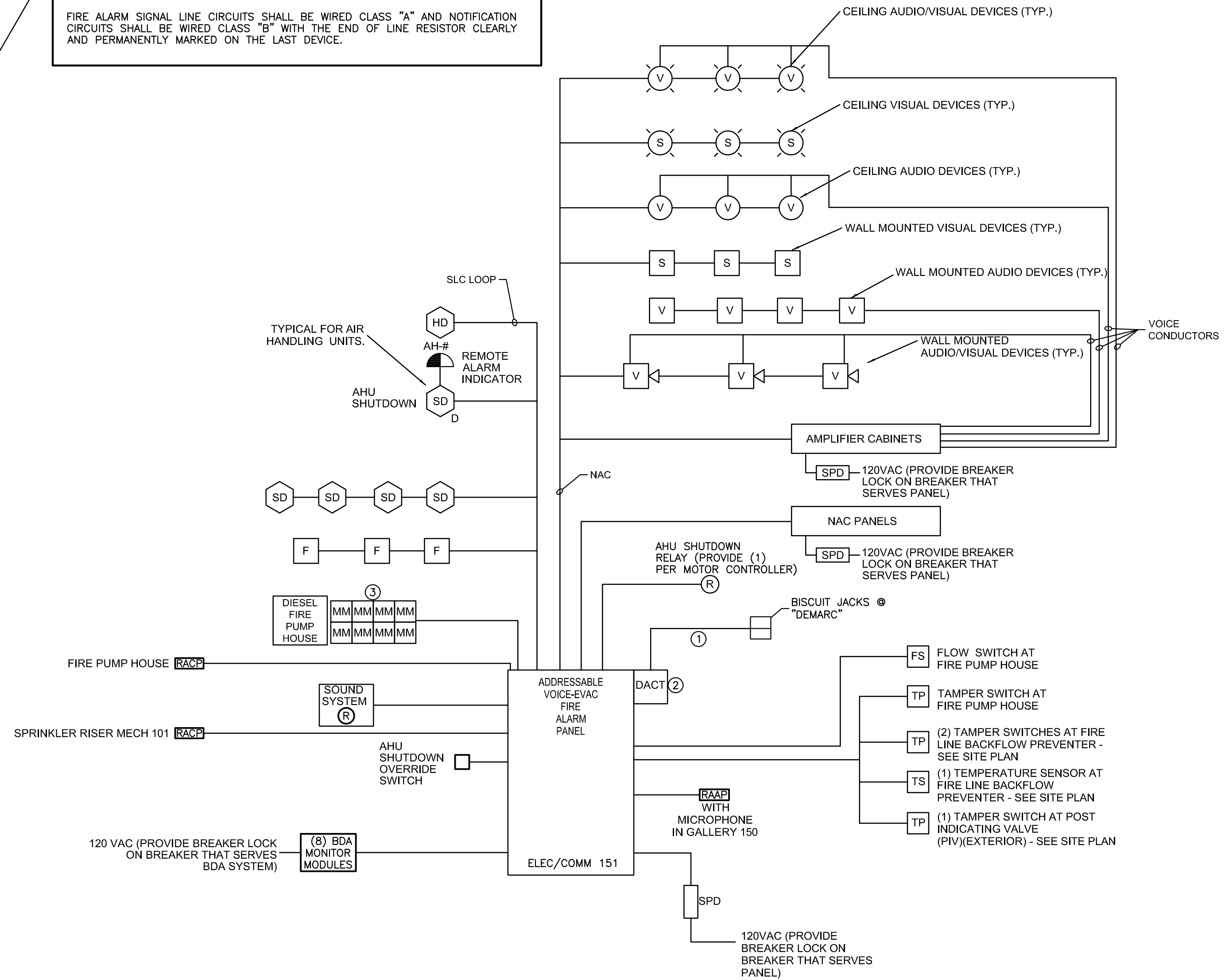
A. VERIFY OPERATION WITH LOCAL AHJ PRIOR TO PROGRAMMING.

SYSTEM INPUTS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1																							
2																							
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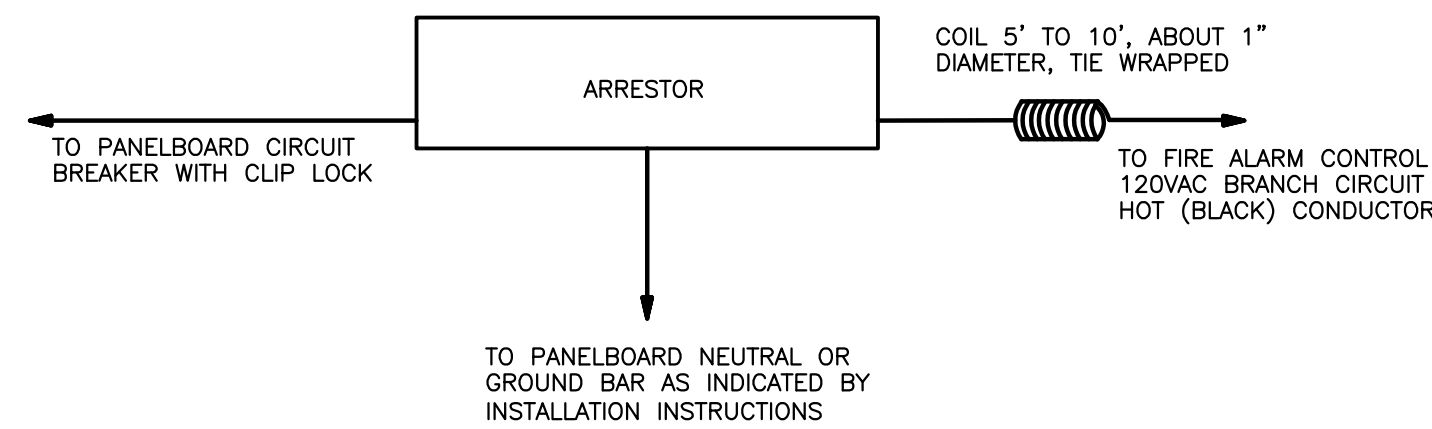
FIRE ALARM OPERATIONAL MATRIX

FIRE ALARM SIGNAL LINE CIRCUITS SHALL BE WIRED CLASS "A" AND NOTIFICATION CIRCUITS SHALL BE WIRED CLASS "B" WITH THE END OF LINE RESISTOR CLEARLY AND PERMANENTLY MARKED ON THE LAST DEVICE.



GENERAL NOTES:

SECURELY MOUNT TRANSIENT ARRESTOR IN ACCESSIBLE JUNCTION BOX OR PROPER METAL ENCLOSURE ADJACENT TO THE PANELBOARD. PROVIDE ENGRAVED LABEL INDICATING ITS LOCATION.

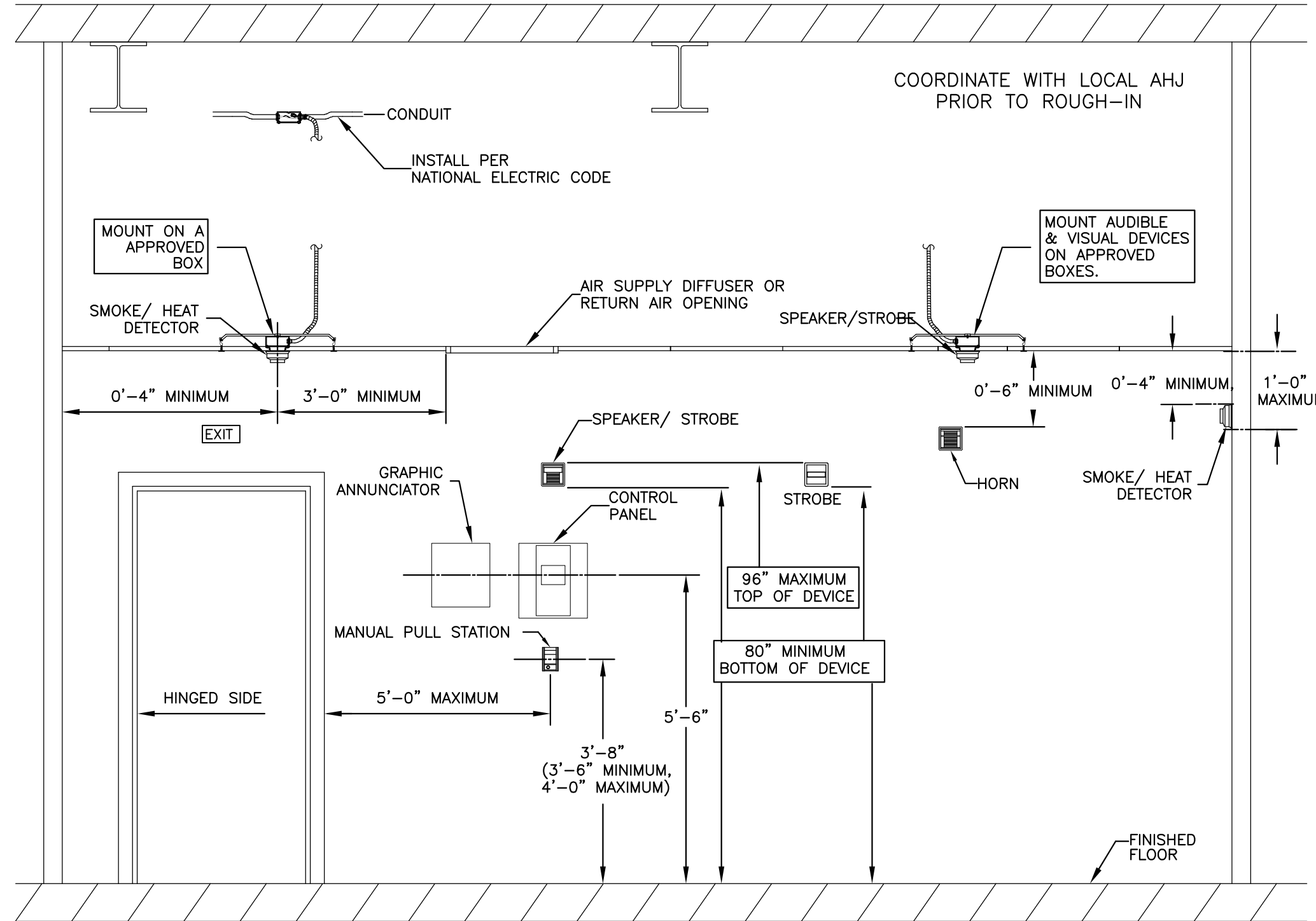


DETAIL

TRANSIENT ARRESTOR INSTALLATION DETAIL

03

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



DETAIL

FIRE ALARM DEVICE MOUNTING

02

GENERAL FIRE ALARM RISER NOTES:

- A. SEE PLANS FOR LOCATIONS AND QUANTITIES OF ALL DEVICES.
- B. ALL WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.
- C. BATTERY CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- D. TEST RESULTS ARE REQUIRED FOR ALL DEVICES.
- E. PROVIDE SHUT-DOWN DEVICES FOR ALL AIR HANDLERS AND SUPPLY FANS OF ALL MECHANICAL EQUIPMENT.
- F. VERIFY ROOM NUMBERS WITH ARCHITECT PRIOR TO PROGRAMMING SYSTEM.
- G. ALL NAC PANELS AND AMPLIFIER PANELS SHALL HAVE A SMOKE DETECTOR MOUNTED WITHIN 15'-0" OF PANEL.
- H. A SMOKE DETECTOR SHALL BE MOUNTED WITHIN 15'-0" OF FACP, RACP, RAAP AND NAC PANELS.
- I. IF ANY ARCHITECTURAL CHANGES ARE MADE THAT SHALL AFFECT ANY DEVICE PLACEMENT, THIS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION.
- J. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL BE NICET LEVEL 2 CERTIFIED AND HAVE AT LEAST 2 YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
- K. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL BE NICET LEVEL 2 CERTIFIED AND HAVE AT LEAST 2 YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
- L. THE SHOP DRAWINGS SUBMITTALS FOR DEVICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER AND LOCAL (AHJ) FIRE MARSHALL PRIOR TO ANY INSTALLATION/ROUGH-IN FOR FIRE ALARM DEVICES.
- M. WIRING DIAGRAMS, LOCATION DRAWINGS, DEVICE CUT SHEETS AND VOLTAGE DROP CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- N. THE FIRE ALARM SYSTEM PROVIDER SHALL PROVIDE ALL DOCUMENTATION AS SPECIFIED IN THE INTERNATIONAL FIRE CODE SECTION 907 REQUIREMENTS AS PART OF HIS SHOP DRAWING SUBMITTALS.

THIS INCLUDES:

1. LOCATION DRAWINGS OF ALARM INITIATING AND NOTIFICATION DEVICES.
2. WIRING DIAGRAMS WITH CONDUCTOR TYPE AND SIZES.
3. LOCATIONS OF ALARM CONTROL AND TROUBLE SIGNALING EQUIPMENT.
4. POWER CONNECTION DETAILS AND WIRING SCHEMATICS
5. BATTERY CALCULATIONS
6. VOLTAGE DROP CALCULATIONS
7. MANUFACTURER'S MODEL NUMBERS, LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
8. THE INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.

- O. REFER TO SPECIFICATION 28 46 01 "FIRE DETECTION AND ALARM - VOICE EVACUATION".
- P. FIRE ALARM SIGNAL LINE CIRCUITS SHALL BE WIRED CLASS "A" AND NOTIFICATION CIRCUITS SHALL BE WIRED CLASS "B" WITH THE END OF LINE RESISTOR CLEARLY AND PERMANENTLY MARKED ON THE LAST DEVICE.
- Q. PROVIDE SPARE PARTS AS DEFINED IN SPECIFICATION 284601.
- R. ALL FIRE ALARM SYSTEM WORK SHALL BE APPROVED BY THE SAMPSON COUNTY FIRE MARSHALL PRIOR TO COMMENCING ANY FIRE ALARM WORK.
- S. FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72.
- T. COORDINATE WITH THE FIRE PROTECTION CONTRACTOR FOR VOLTAGE, RELAY, ETC. FOR CONNECTIONS OF SPRINKLER BELL. ALL WIRING, CONDUIT, RELAY, AND INTERCONNECTIONS SHALL BE BY THE ELECTRICAL & FIRE ALARM CONTRACTORS.
- U. SPEAKER AMPLIFIER CABINETS SHALL BE ADDED AS NEEDED. ALL 120VAC POWER FOR CABINET SHALL BE PROVIDED FROM THE NEAREST 120V PANEL. BREAKER HASPS SHALL BE PROVIDED ON BREAKER SERVING CABINET.
- V. ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH FIRE ALARM SUB-CONTRACTOR FOR ALL 120V AC POWER REQUIRED FOR THIS SYSTEM. IF ANY ADDITIONAL CIRCUITS ARE REQUIRED THAT ARE NOT IDENTIFIED ON PLANS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THAT CIRCUIT FROM THE NEAREST 120V PANEL. AS-BUILTS SHALL BE UPDATED TO REFLECT THE INSTALLED CONDITION. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE PROJECT.
- W. THE FIRE ALARM SYSTEM SHALL BE INTERCONNECTED WITH THE GYMNASIUM/ DINING ROOM SOUND SYSTEM SUCH THAT UPON ALARM CONDITION THE SOUND SYSTEM MUTES.

KEYNOTES:

1. PROVIDE CAT-6 DEDICATED PHONE LINES TO EXISTING PHONE/DATA ROOM 151. COORDINATE WITH AHJ AND MONITORING STATION FOR ALTERNATIVE COMMUNICATION METHODS DESIRED.
2. FIRE ALARM CONTROL PANEL SHALL BE EQUIPPED WITH A MULTI-TECHNOLOGY DIALER COMPLIANT WITH NFPA 72. DIALER SHALL BE CAPABLE OF COMMUNICATING VIA PHONE, IP PHONE AND CELLULAR COMMUNICATIONS. EXISTING TECHNOLOGIES TO BE USED SHALL BE COORDINATED WITH AHJ.
3. PROVIDE ALL MONITOR AND RELAY MODULES, TAMPER, FLOW SWITCHES, PULL STATION, SMOKE DETECTOR, A/V DEVICE AND RACP IN REQUIRED TO MONITOR THE FIRE PUMP.

DETAIL

FIRE ALARM RISER AND OPERATIONAL MATRIX

01

CONSULTANT

pdc
Progressive Design Collaborative, Inc.
3101 Poplarwood Court, Suite 300
Raleigh, North Carolina 27604
919-793-0969
License # C-0183
PDC #24010

KEY PLAN

NO	REVISION	DATE

SCO ID #17-16813-01C; NCCCS #2163

J K F
ARCHITECTURE

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

SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE
FIRE ALARM RISER/MATRIX
FIRE ALARM DEVICE MOUNTING

SCALE
NO SCALE

DRAWN
JPT

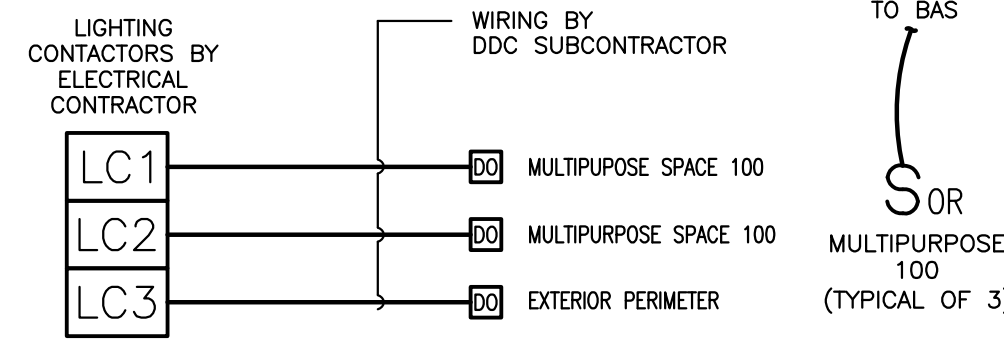
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DATE
5-20-2024

PROJECT NO.
2016-20B

E4.1

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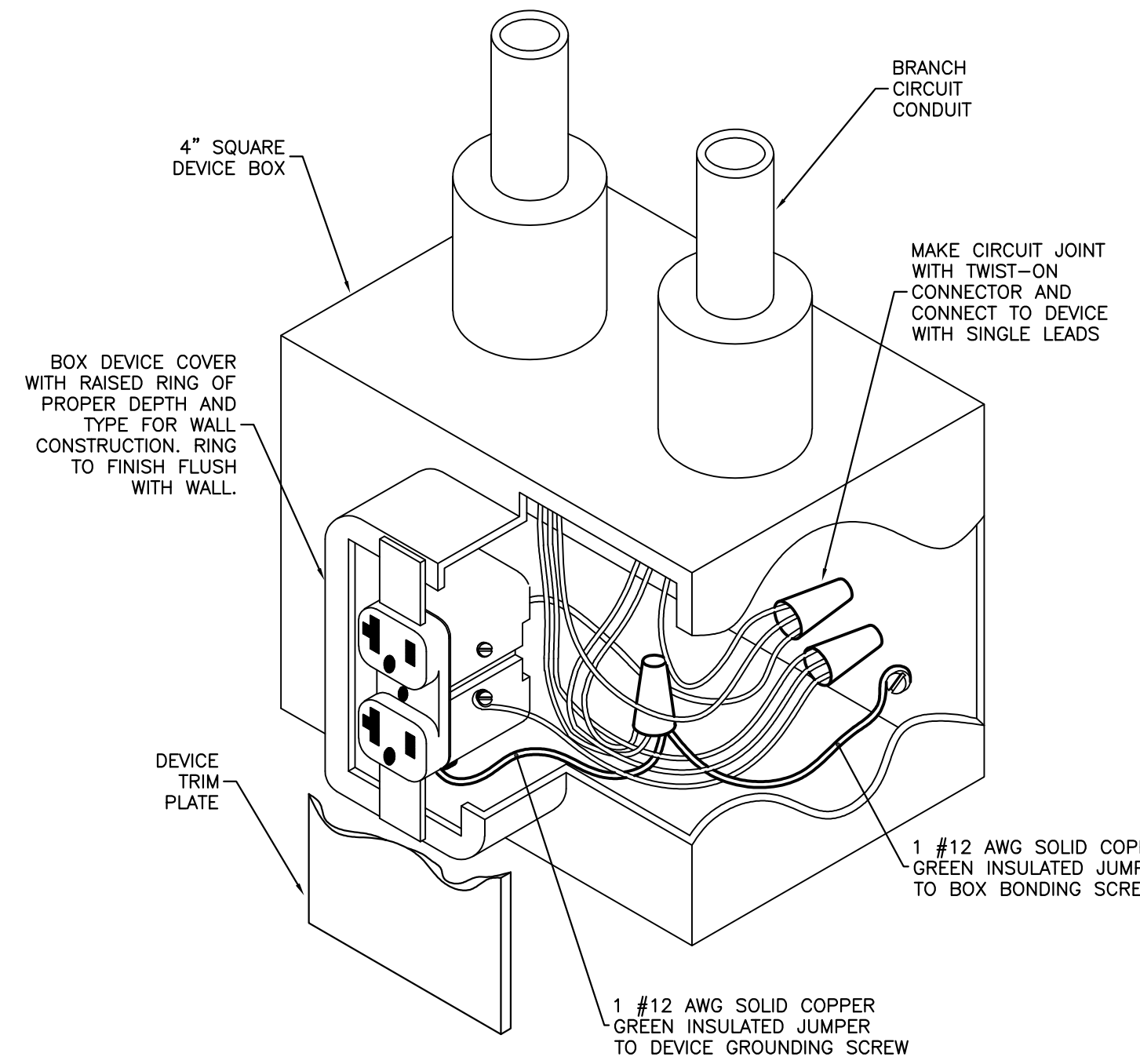
GENERAL NOTES:

- A. BAS SYSTEM SHALL PROVIDE BLINK/ALERT CAPABILITIES SUCH THAT WHEN LIGHTS ARE PROGRAMMED TO SHUT-OFF, 10 MINUTES PRIOR TO SHUT-OFF, LIGHTS BLINK TO NOTIFY OCCUPANT.
- B. THE LIGHTING OVERRIDE SWITCHES SOR SHALL BE LOW VOLTAGE TYPE SINGLE BUTTON TYPE. PROVIDE AND INSTALL BY THE DIVISION 23 CONTROLS CONTRACTOR.
- C. THE LIGHTING CONTACTORS ARE MECHANICALLY HELD TYPE. THE BAS SYSTEM SHALL BE INTEGRATED INTO THE CONTACTORS TO ALLOW LIGHTS IN MULTIPURPOSE SPACE AND EXTERIOR TO BE TURNED ON/OFF AT PRE-SCHEDULED TIMES.
- D. REFER TO SPECIFICATION 260923.
- E. ALL POWER WIRING BY THE ELECTRICAL CONTRACTOR AND ALL LOW VOLTAGE WIRING BY THE DIVISION 23 CONTROLS CONTRACTOR.

LIGHTING / BAS CONTROL

DETAIL

07



DETAIL

RECEPTACLE GROUNDING DETAIL

06

System No. C-AJ-1014

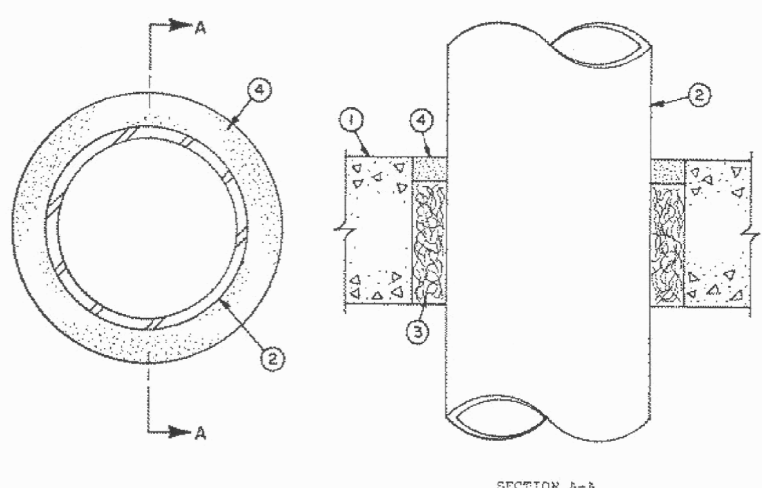
May 09, 2013

F Rating — 2 Hr

T Rating — 0 Hr

L Rating At Ambient — Less Than 1 CFM/sq ft

L Rating At 400 F — Less Than 1 CFM/sq ft



1. Floor or Wall Assembly — Min 3-1/4 in. (83 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular opening is 6 in. (152 mm). See Concrete Block (CA21) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants — One metallic pipe or conduit to be centered within the firestop system. A non annular space of 3/4 in. (19 mm) is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:

- A. Steel Pipe — Nom 4 in. diam (102 mm) (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.

3. Packing Material — Min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or wall on both sides of wall as required to accommodate the required thickness of fill material. Min thickness of packing material in floors and walls to be 2-3/4 in. (70 mm) and 2-1/4 in. (57 mm), respectively.

4. Fill, Void or Cavity Material** — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within annulus. Flush with top surface of floor or with both surfaces of wall. As an alternate, the permanent forming material (Item 3) may be omitted if the fill material thickness is increased to a min 1-1/2 in. (38 mm).

** 3M COMPANY — Types FB-1000 NS, FB-1003SL (floors only), FB-2000 or FB-2000+.

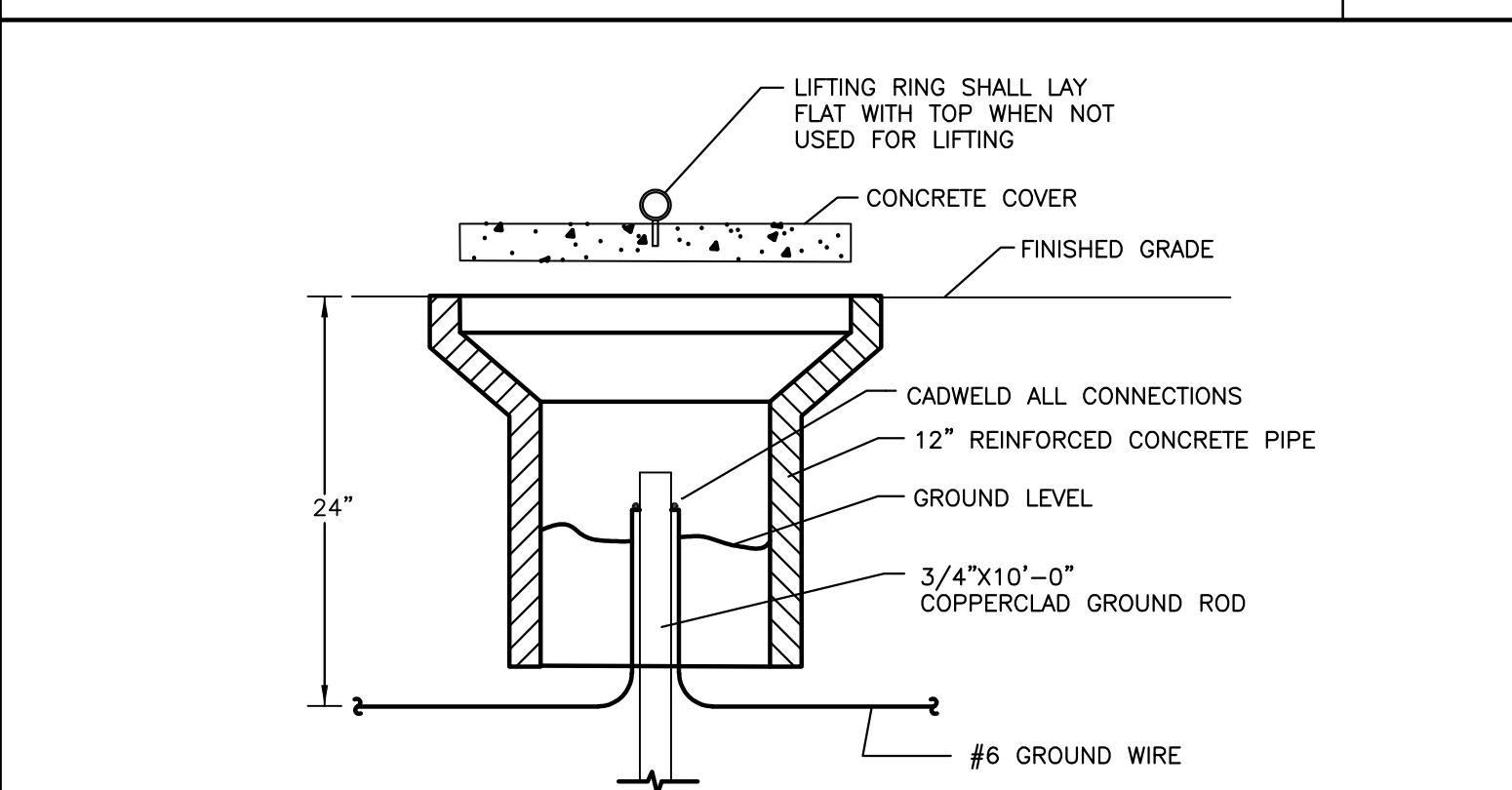
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2013-05-09

DETAIL

LAY-IN FIXTURE MOUNTING DETAIL

05

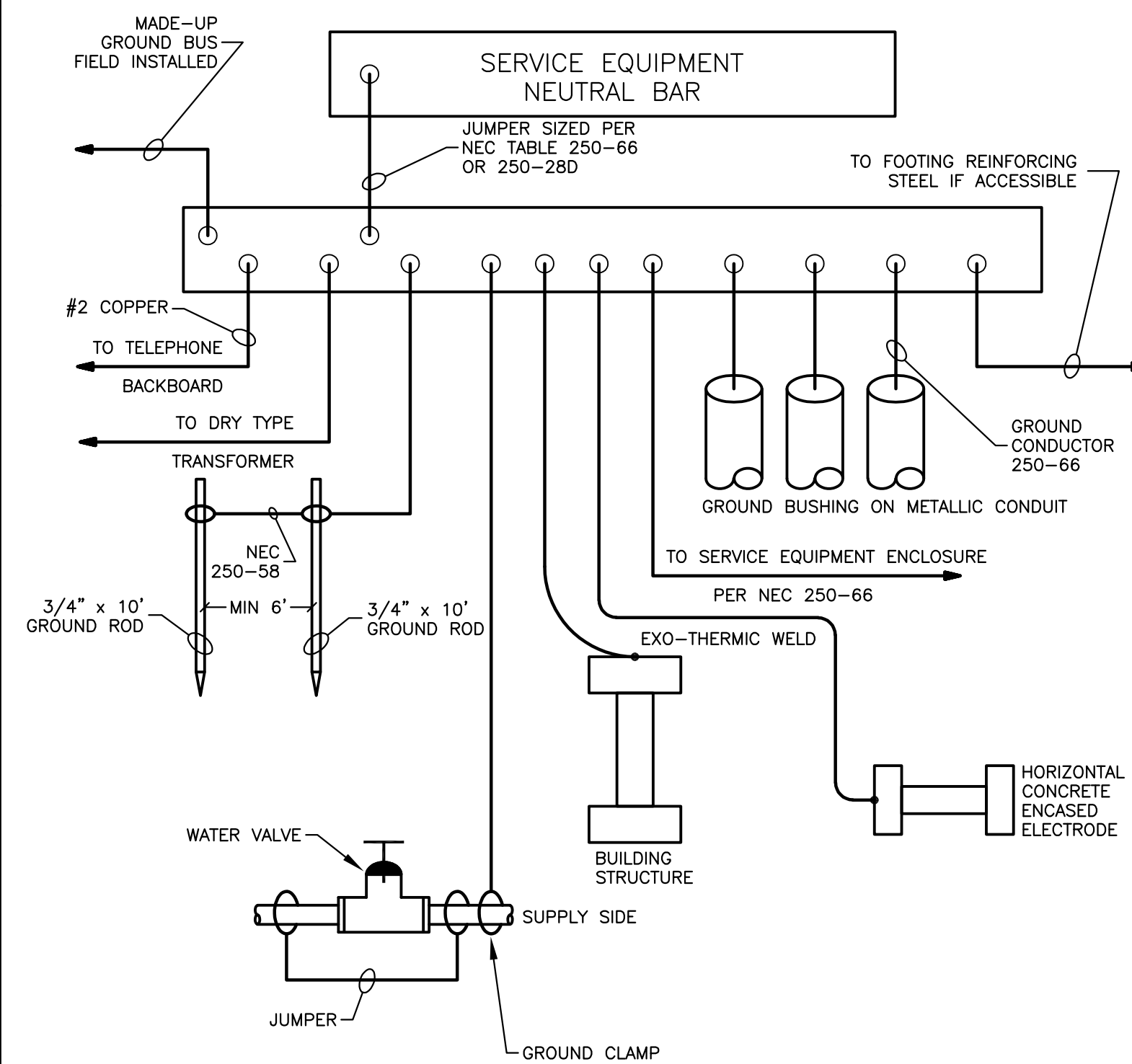


DETAIL

NOT TO SCALE

TYPICAL GROUND ROD DETAIL

04



SERVICE EQUIPMENT GROUNDING DETAIL

DETAIL

NOT TO SCALE

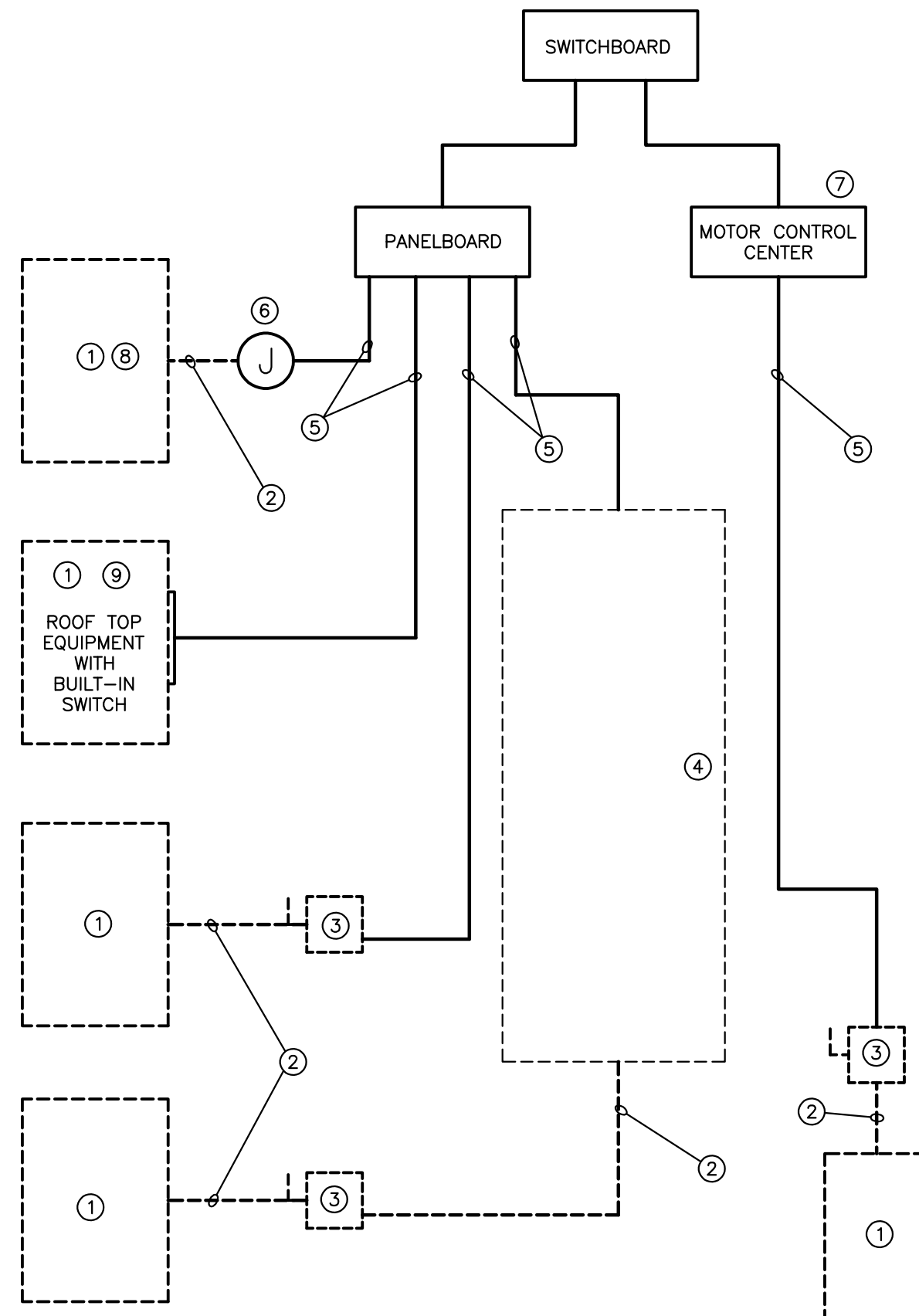
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DETAIL

NOT TO SCALE

NON-RATED WALL PIPE PENETRATION

02



ELECTRICAL NOTES:

- ① EQUIPMENT OF TRADES OTHER THAN ELECTRICAL
- ② CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES
- ③ IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR
- ④ A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- ⑤ FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- ⑥ JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- ⑦ FOR PROJECTS UTILIZING AN MCC, THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- ⑧ IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
- ⑨ IF THE ROOF TOP FAN IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- ⑩ IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES

ELECTRICAL EQUIPMENT CONNECTIONS

DETAIL

NOT TO SCALE

ELECTRICAL EQUIPMENT CONNECTIONS

01

CONSULTANT



KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO REVISION DATE

JKF
ARCHITECTURE

625 LYNHDALE CT, SUITE F, GREENVILLE, NC 27858 252-355-1048
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

ELECTRICAL DETAILS

SCALE: **NO SCALE**

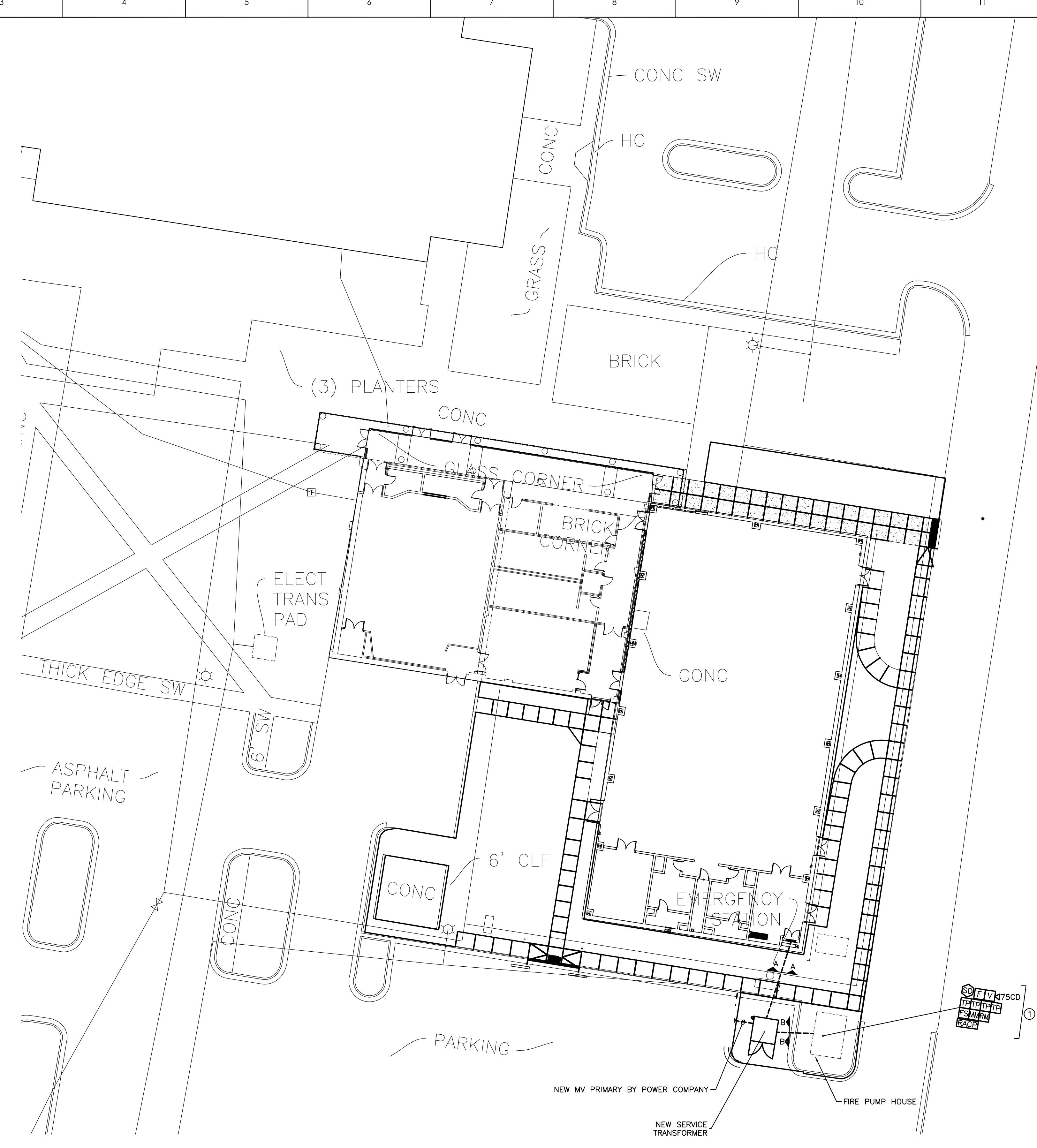
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CHECKED: **JTB**

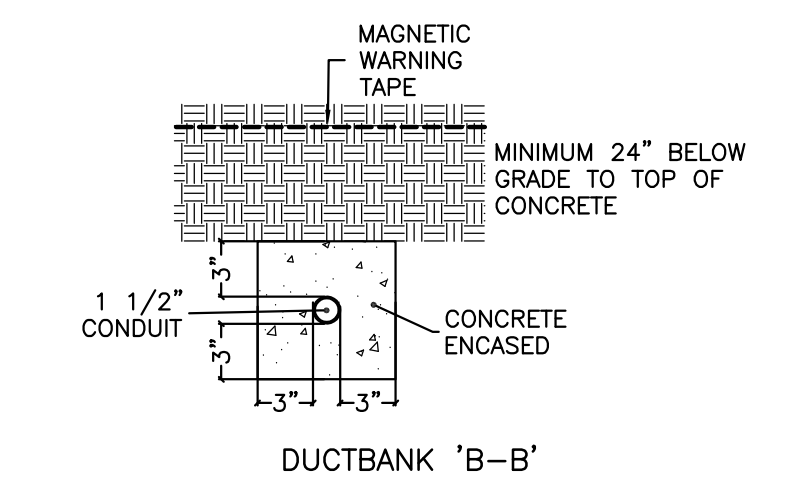
DATE: **5-20-2024**

PROJECT NO: **2016-20B**

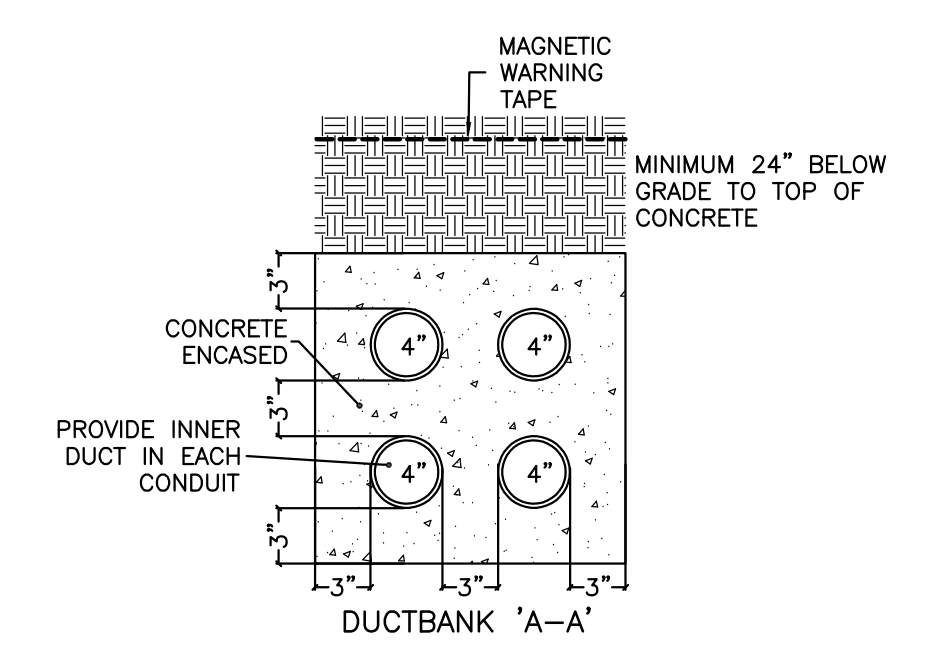
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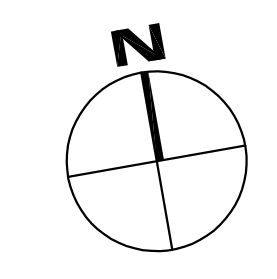
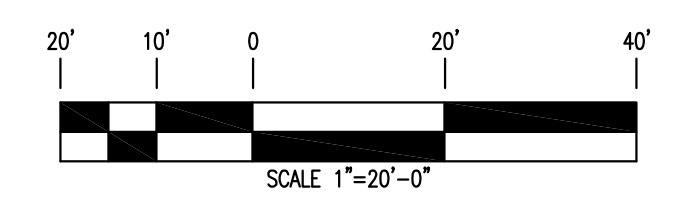
01 ENLARGED ELECTRICAL SITE PLAN
E5.1 1" = 20'-0"



03 DUCT BANK SECTION B
E5.1 NO SCALE



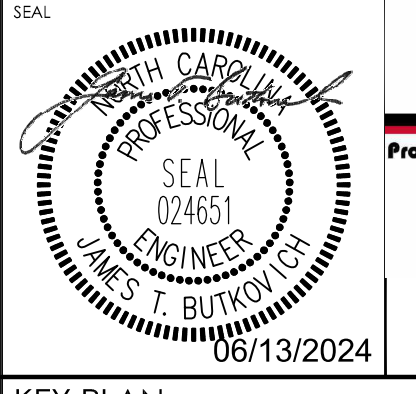
02 DUCT BANK SECTION A
E5.1 NO SCALE



KEYNOTES:

1. PROVIDE TAMPER, FLOW SWITCHES, PULL STATION, SMOKE DETECTOR, A/V DEVICE AND RACP IN FIRE PUMP HOUSE AS REQUIRED. PROVIDE MONITOR AND RELAY MODULES AT FIRE PUMP CONTROLLER AS REQUIRED.

CONSULTANT



pdc
Progressive Design Collaborative, Ltd.
 3101 Poplarwood Court, Suite 300
 Raleigh, North Carolina 27604
 919-730-0969
 License# C-0183
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163		
NO	REVISION	DATE

NO	REVISION	DATE

SEAL

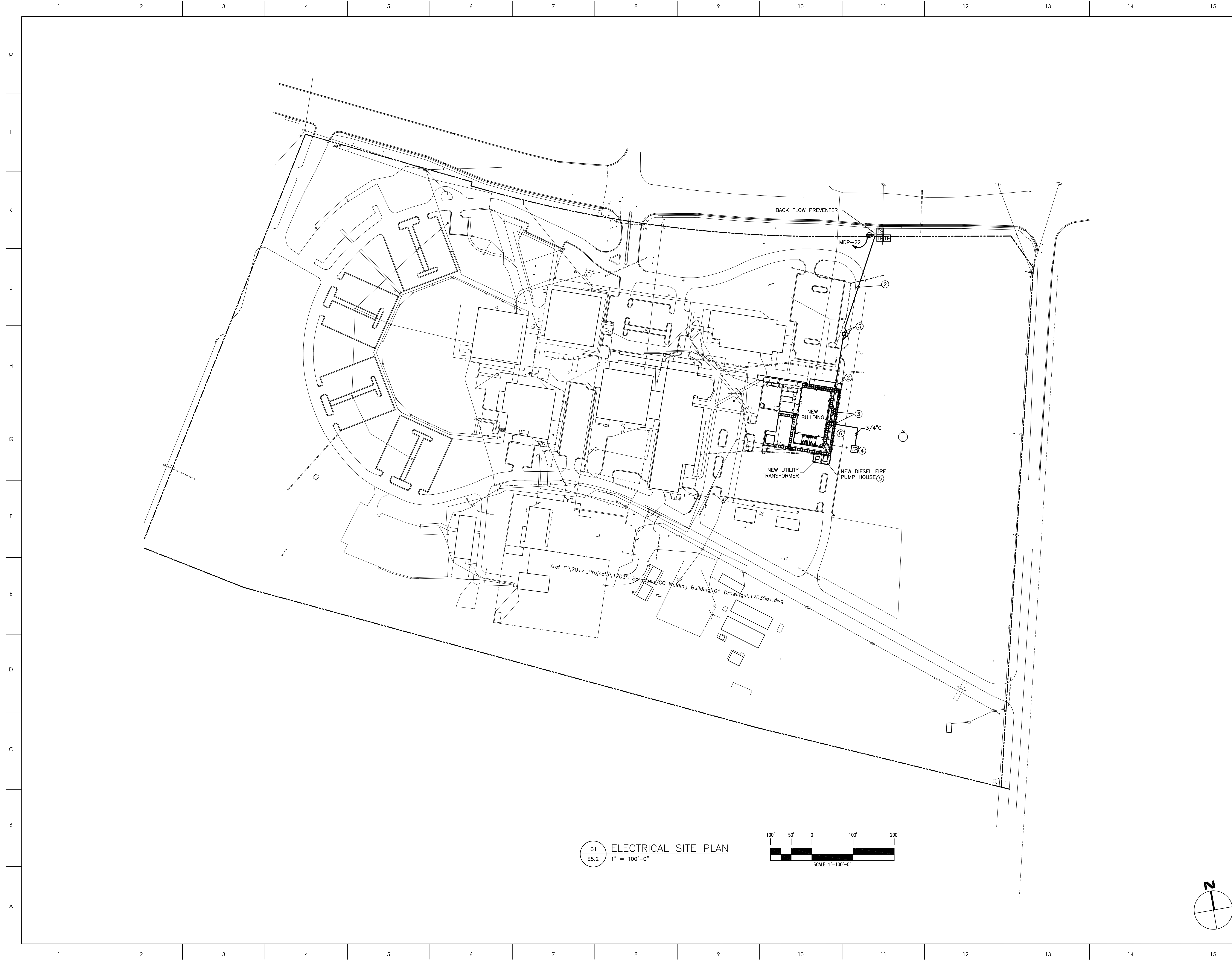
J K F
 ARCHITECTURE

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

SAMPSON COMMUNITY
 COLLEGE ACTIVITIES
 BUILDING ADDITION
 CLINTON, NC

DRAWING TITLE
 ENLARGED ELECTRICAL
 SITE PLAN

SCALE	DRAWING NO.
1"=20'-0"	E5.1
DRAWN	JPT
CHECKED	JTB
DATE	5-20-2024
PROJECT NO.	2016-20B



- KEYNOTES:**
- ① PROVIDE FIRE ALARM AND POWER CONNECTIONS AT FIRE LINE HOT BOX.
 - ② ROUTE FIRE ALARM AND POWER CONDUITS ROUTED NEXT TO NEW FIRE LINE. PROVIDE A 1 1/2" FOR POWER AND A 1 1/4" CONDUIT FOR FIRE ALARM.
 - ③ PROVIDE (2)-11" X 18" QUARTZITE STYLE PG HANDHOLES - ONE FOR FIRE ALARM, ONE FOR POWER.
 - ④ PROVIDE 3/4" CONDUIT FROM PIV TO HANDHOLE FOR FIRE ALARM WIRING FOR PIV.
 - ⑤ REFER TO DRAWING E5.1 FOR FIRE ALARM DEVICES AT FIRE PUMP HOUSE.
 - ⑥ PROVIDE 1 1/2" CONDUIT FOR POWER FROM MDP TO EXTERIOR HANDHOLE AND 1 1/4" CONDUIT FOR FIRE ALARM WIRING FROM EXTERIOR HANDHOLE TO INSIDE MECHANICAL 101 TO INTERFACE WITH NEW FIRE ALARM SYSTEM.

CONSULTANT

SEAL
024651
06/13/2024

Progressive Design Collaborative, Inc.
3101 Poplarwood Court, Suite 300
Raleigh, North Carolina 27604
919.703.0909
License # C-01183
PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

SEAL
024651
06/13/2024

JKF

ARCHITECTURE

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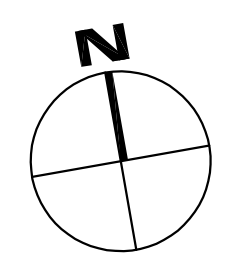
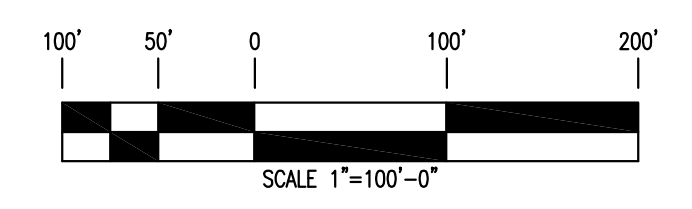
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CLINTON, NC

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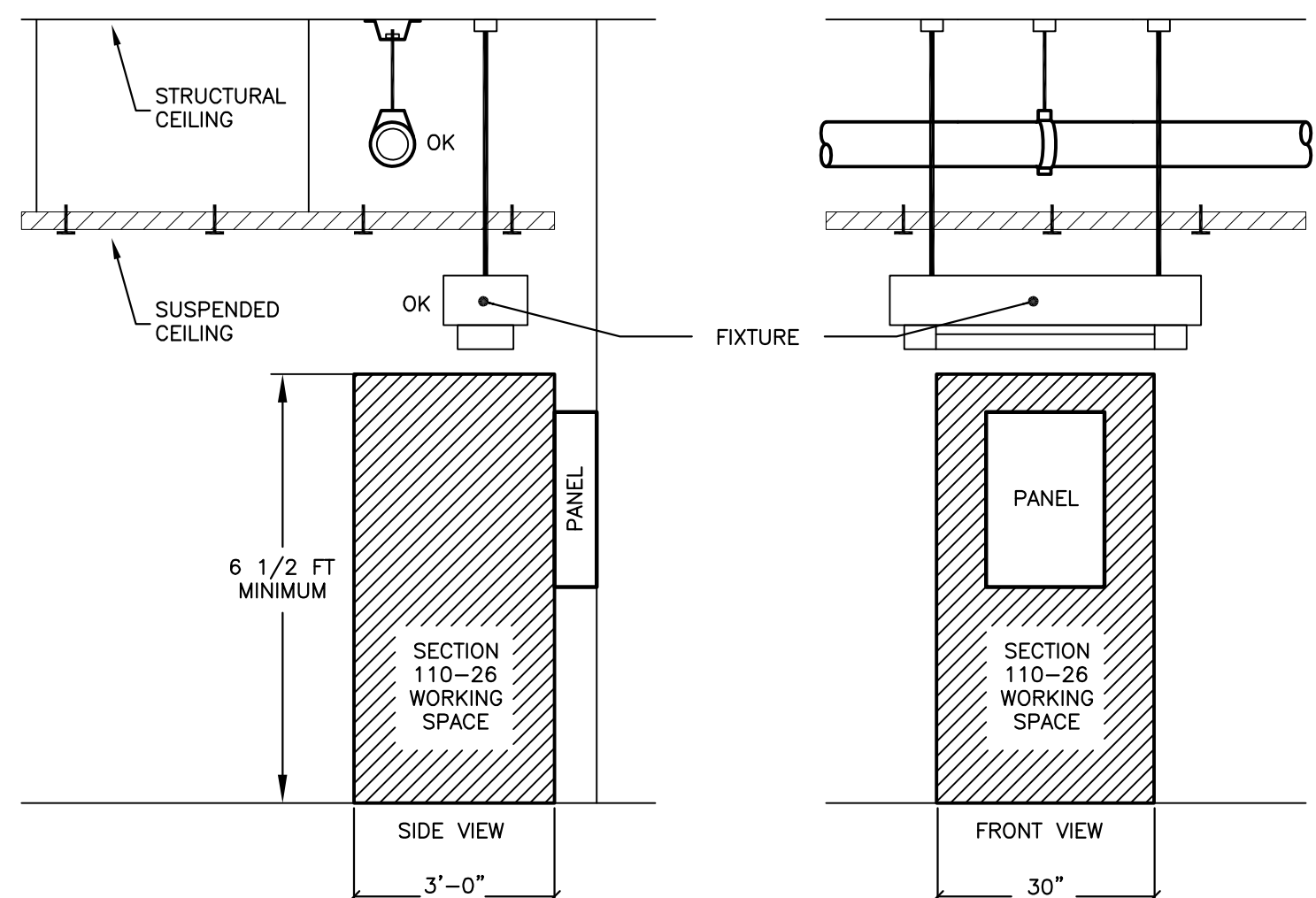
ELECTRICAL SITE PLAN

SCALE 1"=100'-0"	DRAWING NO. E5.2
DRAWN JPT	
CHECKED JTB	
DATE 5-20-2024	
PROJECT NO. 2016-20B	

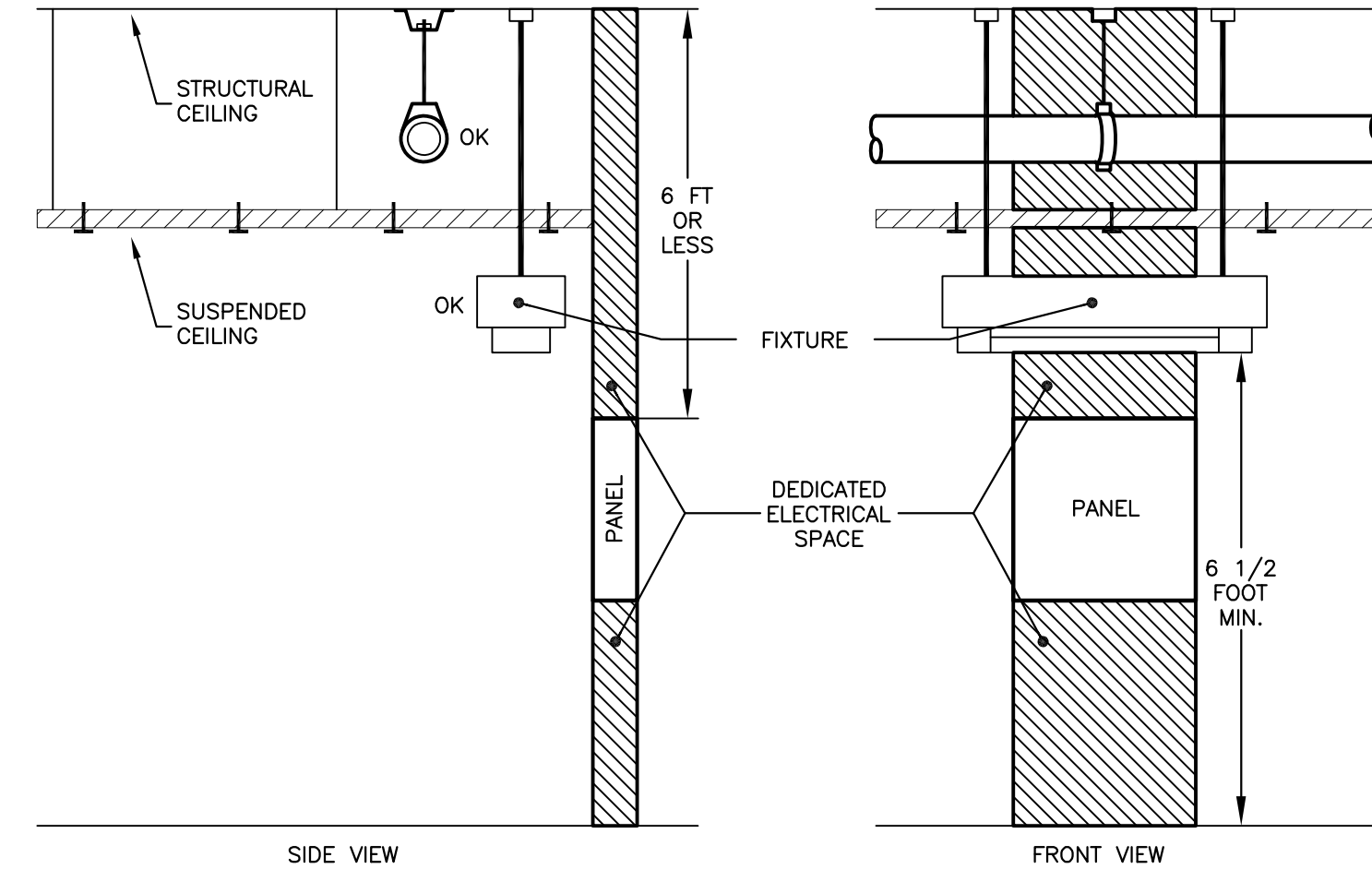
01 ELECTRICAL SITE PLAN
E5.2 1" = 100'-0"



Project #: 2016-20B
Printed On: 6/13/2024 @ 2:02 PM
Sheet: E5-2



WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
N.E.C ARTICLE 110-26



DEDICATED SPACE FOR ELECTRICAL EQUIPMENT
N.E.C ARTICLE 110-26

DETAIL 01
NOT TO SCALE

CKT	LOAD TYPE	LOAD KVA	DESCRIPTION	C	PH	N	G	CB	PHASE			CB	PH	N	G	C	DESCRIPTION	LOAD KVA	LOAD TYPE	CKT	
									A	B	C										
1	H	23.712							25.362				20	10	N/A	10	3/4"	EUH-03	1.650	H	2
3	H	23.712	CUJ-01						25.362				20	10	N/A	10	3/4"	EUH-02	1.650	H	4
5	H	23.712							25.362				20	10	N/A	10	3/4"		1.650	H	6
7	H	28.680							30.330				30	10	10	10	3/4"		1.650	H	8
9	H	28.680	AHU-01 (NOTE 2)						28.680				30	10	10	10	3/4"	SPD		O	10
11	H	28.680							28.680				30	10	10	10	3/4"			O	12
13	O								0.000									SPARE		O	14
15	O		SPARE						1.667				30	10	N/A	10	3/4"	EUH-01	1.667	H	16
17	O								1.667				30	10	N/A	10	3/4"		1.667	H	18
19	O								1.500				20	6	6	6	1"	FIRELINE BFP HEATER (NOTE 3)	1.500	O	22
21	O		SPARE						0.000									SPARE		O	24
23	O								0.000									SPARE		O	26
25	O								0.000									SPARE		O	28
27	O		SPACE						0.000									SPARE		O	30
29	O								0.000									SPARE		O	32
31	O		SPACE						0.000									SPARE		O	34
33	O								0.000									SPARE		O	36
35	O		SPACE						0.000									SPARE		O	38
37	S	10.568							10.568									SPARE		O	40
39	S	12.932	PANEL LP1						12.932									SPARE		O	42
41	S	8.096							8.096									SPARE		O	44
LOAD TOTAL:									67.63	76.14	83.81										
LOAD TYPE									CONNECTED	DEMAND											
208Y/120 V									3 PHASE	4 WIRE	(R) RECEPTACLES	7.51	100%	7.51							
MAINS: MCB									800 A MCB (NOTE 1)	(M) MOTOR	6.02	100%	6.02								
4000 AIC									X	SE LABEL	(H) HVAC	169.58	100%	169.58							
									(L) LIGHTING	8.32	125%	10.41									
									(O) OTHER	10.44	100%	10.44									
									(K) KITCHEN EQUIP	0.00	100%	0.00									
TOTAL:									261.67	101%	263.95										

208Y/120 V 3 PHASE 4 WIRE (R) RECEPTACLES 7.51 100% 7.51
 MAINS: MCB 800 A MCB (NOTE 1) (M) MOTOR 6.02 100% 6.02
 4000 AIC X SE LABEL (H) HVAC 169.58 100% 169.58
 (L) LIGHTING 8.32 125% 10.41
 (O) OTHER 10.44 100% 10.44
 (K) KITCHEN EQUIP 0.00 100% 0.00
 TOTAL 261.67 101% 263.95

FED FROM: SERVICE TRANSFORMER
 MOUNT: SURFACE
 NEMA: 1

PROVIDE DOOR WITH LOCK AND HINGED TRIM. PROVIDE COPPER BUSS BARS AND BOLT ON BREAKERS.

NOTES:
 1. MAIN BREAKER SHALL BE FULLY RATED.
 2. LOAD HAS BEEN REDUCED SINCE CUJ-01 AND ELECTRIC HEAT IN AHU-01 WILL NOT OPERATE SIMULTANEOUSLY.
 3. PROVIDE GFPE BREAKER.
 4.

PANEL TOTALS
 PHASE A 68.627 KVA 571.9 AMP
 PHASE B 70.864 KVA 580.5 AMP
 PHASE C 64.463 KVA 537.2 AMP

CKT	LOAD TYPE	LOAD KVA	DESCRIPTION	C	PH	N	G	CB	PHASE			CB	PH	N	G	C	DESCRIPTION	LOAD KVA	LOAD TYPE	CKT	
									A	B	C										
1	O	1.000	FUTURE SOUND RACK	3/4"	12	12	12	20	1.540				20	10	10	10	3/4"	REC RM 101	0.840	R	2
3	O	1.000	FUTURE SOUND RACK	3/4"	12	12	12	20	1.720				20	10	10	10	3/4"	REC RM 101	0.720	R	4
5	R	0.720	REC 101, 102, EXTERIOR	3/4"	12	12	12	20	1.800		1.800		20	10	10	10	3/4"	REC RM 101	1.080	R	6
7	R	0.600	REC 103	3/4"	12	12	12	20	1.800				20	10	10	10	3/4"	FUTURE PROJECTOR	1.200	O	8
9	R	0.360	REC 107	3/4"	12	12	12	20	0.660				20	12	12	12	3/4"	FIRE ALARM NAC PANEL (NOTE 1)	0.500	O	10
11	R	0.360	REC 107	3/4"	12	12	12	20		1.160			20	12	12	12	3/4"	HVAC CONTROLS, MOTORIZED DAMPER	0.800	H	12
13	R	0.540	REC MP	3/4"	12	12	12	20	2.790				30	10	10	10	3/4"	WH-1	2.250	O	14
15	L	1.701	LIGHTING RM 101	3/4"	10	10	10	20	3.951				20	10	10	12	3/4"	EXTERIOR LIGHTING	2.250	O	16
17	L	1.215	LIGHTING RM 101	3/4"	10	10	10	20	1.290		1.290		20	10	10	12	3/4"	EXTERIOR LIGHTING	0.075	L	18
19	L	0.972	LIGHTING RM 101	3/4"	10	10	10	20	2.976				20	10	10	10	3/4"	EF-02 (5 HP)	2.008	M	20
21	L	1.215	LIGHTING RM 101	3/4"	10	10	10	20	3.221				30	10	N/A	10	3/4"	EF-02 (5 HP)	2.008	M	22
23	L	1.048	LIGHTING RM 102,103,105, MP	3/4"	10	10	10	20	1.220		3.052		20	10	10	10	3/4"	LIGHTING INVERTER (NOTE 2)	2.100	L	24
25	R	0.720	RECEPT - 101	3/4"	12	12	12	20	1.220				20	12	12	12	3/4"	FIRE ALARM AMPLIFIER CABINET (NOTE 1)	0.500	O	26
27	R	0.540	REC 101, CHASE	3/4"	12	12	12	20	2.640				25	10	10	10	3/4"	LIGHTING INVERTER (NOTE 2)	2.100	L	28
29	R	0.794	REC 105, FAN EF-01	3/4"	12	12	12	20	0.794		0.794		20	10	10	10	3/4"	SPARE		O	30
31	O	0.240	BDA SYSTEM (NOTE 1)	3/4"	12	12	12	20	0.240									SPARE		O	32
33	R	0.540	REC 101	3/4"	10	10	10	20	0.540				20					SPARE		O	34
35	O		SPARE						0.000		0.000		20					SPARE		O	36
37	O		SPARE						0.000		0.000		20					SPARE		O	38
39	O		SPARE						0.000		0.000		20					SPARE		O	40
41	O		SPARE						0.000		0.000		20					SPARE		O	42
LOAD TOTAL:									10.57	12.93	8.10										
LOAD TYPE									CONNECTED	DEMAND											
208Y/120 V									3 PHASE	4 WIRE	(R) RECEPTACLES	7.51	100%	7.51							
MAINS: MCB									225 A MCB	(M) MOTOR	6.02	100%	6.02								
22000 AIC										(H) HVAC	0.80	100%	0.80								
									(L) LIGHTING	8.32	125%	10.41									
									(O) OTHER	8.94	100%	8.94									
									(K) KITCHEN EQUIP	0.00	100%	0.00									
TOTAL:									31.60	107%	33.66										

208Y/120 V 3 PHASE 4 WIRE (R) RECEPTACLES 7.51 100% 7.51
 MAINS: MCB 225 A MCB (M) MOTOR 6.02 100% 6.02
 22000 AIC (H) HVAC 0.80 100% 0.80
 (L) LIGHTING 8.32 125% 10.41
 (O) OTHER 8.94 100% 8.94
 (K) KITCHEN EQUIP 0.00 100% 0.00
 TOTAL 31.60 107% 33.66

FED FROM: MDP
 MOUNT: SURFACE
 NEMA: 1

PROVIDE DOOR WITH LOCK AND HINGED TRIM. PROVIDE COPPER BUSS BARS AND BOLT ON BREAKERS.

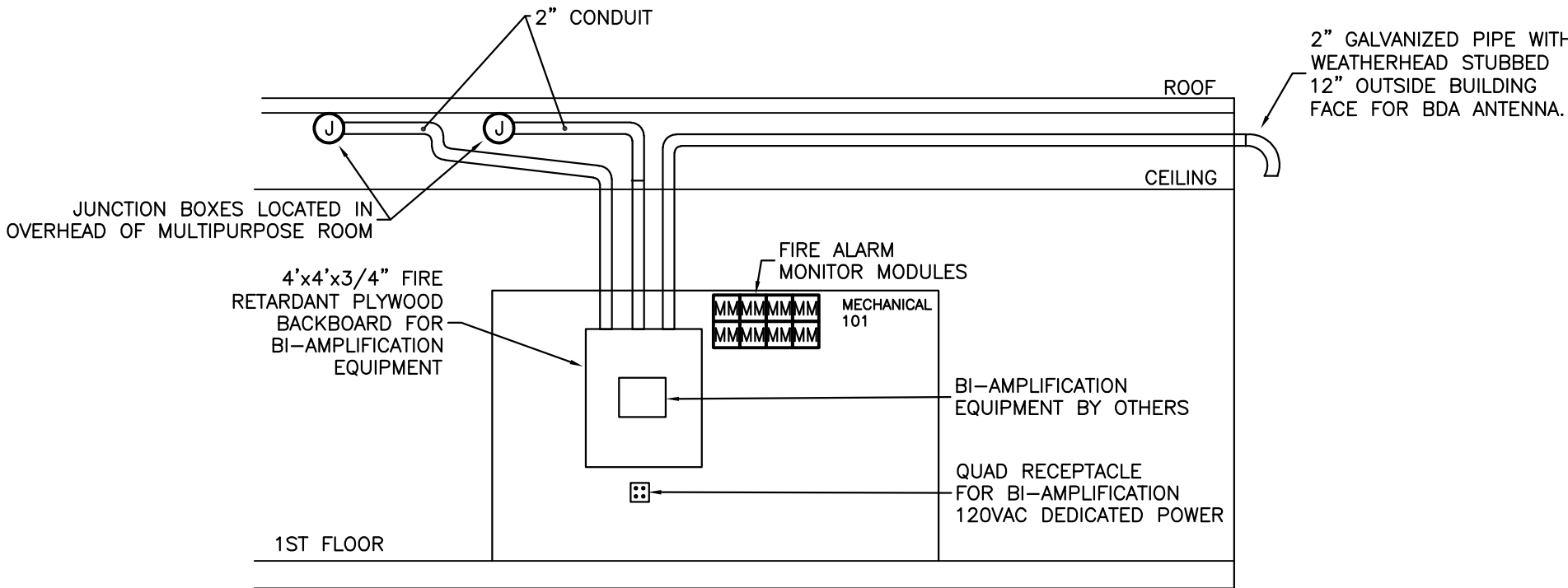
NOTES:
 1. PROVIDE BREAKER LOCK. REFER TO FIRE ALARM SPECIFICATIONS FOR TYPE.
 2. COORDINATE BREAKER SIZE WITH MANUFACTURER'S RECOMMENDATION.
 3.
 4.

PANEL TOTALS
 PHASE A 11.264 KVA 93.9 AMP
 PHASE B 13.784 KVA 114.9 AMP
 PHASE C 8.629 KVA 71.9 AMP

	TOTAL KVA	TOTAL DIVERSITY	CONNECTED KVA
INTERIOR LIGHTING	5.905	x1.25	7.358
EXTERIOR LIGHTING	0.075	x1.25	0.094
WATER HEATERS	4.5	x1.25	5.6
HVAC (COOLING)	95.83	x1.0	95.83
HVAC (HEAT)	86.113	x0.14	12.82
HVAC AUXILIARIES	0.94	x1.0	0.94
VENTILATION	6.018	x1.0	6.018
GENERAL PURPOSE RECEPTACLES	5.94	x1.0	5.94
DEDICATED LOADS	44.2	x1.0	44.2
	251		179

$$I = \frac{(179)(1000)}{208 \times \sqrt{3}} = 497 \text{ AMPS}$$

LOAD SUMMARY



- GENERAL NOTES:**
- ELECTRICAL CONTRACTOR SHALL PROVIDE 4' x 4' FIRE RETARDANT PLYWOOD BACKBOARD FOR EQUIPMENT MOUNTING.
 - ALL BI-AMPLIFICATION EQUIPMENT AND ASSOCIATED CABLING SHALL BE PROVIDED BY OTHERS UNDER AN ALLOWANCE. THE CABLING SHALL BE PLENUM RATED.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE A QUAD RECEPTACLE BELOW THE BACKBOARD.
 - PROVIDE 2" CONDUIT (COMMUNICATION) FROM BACKBOARD LOCATION TO REPEATER LOCATIONS.
 - PROVIDE 2" CONDUIT (COMMUNICATION) FROM MECHANICAL 101 TO SIDE WALL MOUNTED ANTENNA. THE CONDUIT SHALL BE 2" RGS WITH WEATHERHEAD. CONDUIT SHALL EXTEND 12" FROM WALL. CONDUIT SHALL BE SECURED TO STRUCTURE. FINAL LOCATION SHALL BE COORDINATED PRIOR TO ROUGH-IN.
 - IF CONDUIT IS NOT USED BY OWNER/OTHERS, PROVIDE SEAL AND CAP FOR FUTURE USE. COORDINATE WITH OWNER/OTHERS PRIOR TO ROUGH-IN.
 - PROVIDE MONITOR MODULES FOR FIRE ALARM SYSTEM SUPERVISORY. FIRE ALARM CONTRACTOR SHALL COORDINATE CLOSELY WITH BDA SYSTEM CONTRACTOR FOR FINAL FIRE ALARM CONNECTIONS TO EQUIPMENT.
 - CIRCUIT BREAKER THAT SERVES QUAD RECEPTACLE SHALL BE A DEDICATED CIRCUIT AND SHALL BE PROVIDED WITH BREAKER LOCK TO PREVENT THE BREAKER FROM BEING TURNED "OFF".

IMPORTANT NOTE:
 THE BI-DIRECTIONAL AMPLIFICATION SYSTEM (EMERGENCY RESPONDER RADIO) SHALL BE PROVIDED UNDER AN ALLOWANCE. REFER TO ARCHITECT'S LIST OF ALLOWANCES.
 ALL CONDUIT, POWER WIRING, BACKBOARD, MONITOR MODULES AND OUTLET BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS PART OF THE BASE BID. THIS SHALL BE COORDINATED WITH BDA CONTRACTOR PRIOR TO ROUGH-IN.
 THE FACILITY UNDER THE ALLOWANCE WILL REQUIRE A SITE SURVEY TO SEE IF THE RADIO SYSTEM IS NEEDED. THAT SURVEY IS PROVIDED BY A RESPONDER RADIO SYSTEMS CONTRACTOR. IF THE SURVEY INDICATES THAT THE SYSTEM IS NEEDED, THE SYSTEM SHALL BE DESIGNED AND PROVIDED BY A COMPANY THAT SPECIALIZES IN THE RESPONDER RADIO SYSTEMS.
 THE LOCAL FIRE MARSHALL (AHJ) SHALL BE CONSULTED PRIOR TO ANY WORK AND/OR SURVEY BEING PERFORMED AT THIS FACILITY. THE SURVEY SHALL BE REVIEWED AND APPROVED BY THE LOCAL AHJ PRIOR TO PROVIDING THE SYSTEM.

DETAIL BI-DIRECTIONAL AMPLIFICATION SYSTEM (BDA) 02
 NOT TO SCALE

CONSULTANT
 SEAL

 06/13/2024

pdc
 Progressive Design Collaborative, Inc.
 3101 Popponesset Court, Suite 300
 Raleigh, North Carolina 27604
 919-700-0999
 License # C-01183
 PDC #24010

KEY PLAN

SCO ID #17-16813-01C; NCCCS #2163

NO	REVISION	DATE

J K F ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048
SAMPSON COMMUNITY COLLEGE ACTIVITIES BUILDING ADDITION CLINTON, NC

DRAWING TITLE: **PANEL SCHEDULES LOAD SUMMARY**

SCALE: **NO SCALE**

DRAWN: **JPT**

CHECKED: **JTB**

DATE: **5-20-2024**

PROJECT NO.: **2016-20B**

E6.1

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