

Form F3 - Building Code Analysis. Date: 2/16/2023. SUBMITTAL: Schematic. Design Development. Construction Document. SC CODE EDITION: 2021. ICC CODE EDITION: 2021. ICC A117.1 EDITION: 2017. OSF GUIDE EDITION: 2020.

PROJECT DESCRIPTION: [Brief Scope of Work & Include project delivery method (i.e. CMR, etc.)] Cooler & freezer enclosure modification. BASIC BUILDING CODE INFORMATION table with columns for Designated Areas of Building, Building Code, Area 1-5, and checkboxes for SCBC, SCBEC, etc.

Form F3 - Building Code Analysis. EXISTING BUILDING CODE INFORMATION [SCBEC] table with columns for Designated Areas of Building, Building Code, Area 1-3, and checkboxes for various compliance options.

Form F3 - Building Code Analysis. Table with columns for Designated Areas of Building, Area 1-5, and checkboxes for various building code requirements.

Form F3 - Building Code Analysis. ALLOWABLE BUILDING AREA table with columns for Designated Areas of Building, Area 1-5, and checkboxes for various area calculation methods.

Form F3 - Building Code Analysis. FIRE SERVICE INFORMATION table and ENERGY INFORMATION table with columns for Service Line Size, Fire Department Connection, Backflow, Fire Hydrant Flow Test, and Insulation details.

Form F3 - Building Code Analysis. Table with columns for Designated Areas of Building, Building Code, Area 1-5, and checkboxes for various building code requirements.

Form F3 - Building Code Analysis. BUILDING HEIGHT table with columns for Designated Areas of Building, Building Code, Area 1-3, and checkboxes for various height requirements.

Form F3 - Building Code Analysis. GENERAL FIRE PROTECTION REQUIREMENTS table with columns for Designated Areas of Building, Building Code, Area 1-5, and checkboxes for various fire protection requirements.

Form F3 - Building Code Analysis. Table with columns for Designated Areas of Building, Building Code, Area 1-5, and checkboxes for various building code requirements.

Form F3 - Building Code Analysis. OTHER FIRE AND LIFE SAFETY FEATURES table with columns for Designated Areas of Building, Building Code, Area 1-5, and checkboxes for various safety features.

Form F3 - Building Code Analysis. FIRE RESISTANCE RATING OF BUILDING ELEMENTS table with columns for Designated Areas of Building, Building Code, Area 1-3, and checkboxes for various fire resistance ratings.

Form F3 - Building Code Analysis. FIRE RESISTANCE RATING OF BUILDING ELEMENTS table with columns for Designated Areas of Building, Building Code, Area 1-3, and checkboxes for various fire resistance ratings.

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Form F3 - Building Code Analysis. FIRE RESISTANCE RATING OF BUILDING ELEMENTS table with columns for Designated Areas of Building, Building Code, Area 1-3, and checkboxes for various fire resistance ratings.

Form F3 - Building Code Analysis. MECHANICAL INFORMATION table with columns for General Information, Outdoor Design Temperature, Indoor Design Temperature, Outside Air, and Mechanical Systems, Service Systems & Equipment.

Form F3 - Building Code Analysis. SOILS & SITE table with columns for SOILS INVESTIGATION REQUIRED, SOILS CLASSIFICATION, MINIMUM DESIGN SOIL BEARING LOAD, COMPACTION, SEISMIC LOADS/EARTHQUAKE, and ELEVATIONS.

Form F3 - Building Code Analysis. STRUCTURAL DESIGN INFORMATION, AREA table with columns for Building Code, Area 1-5, and checkboxes for various structural design requirements.

Form F3 - Building Code Analysis. STRUCTURAL DESIGN INFORMATION, AREA table with columns for Building Code, Area 1-5, and checkboxes for various structural design requirements.

REQUIRED SPECIAL INSPECTIONS ARE LISTED IN THE SPECIFICATIONS SECTION 01 4001

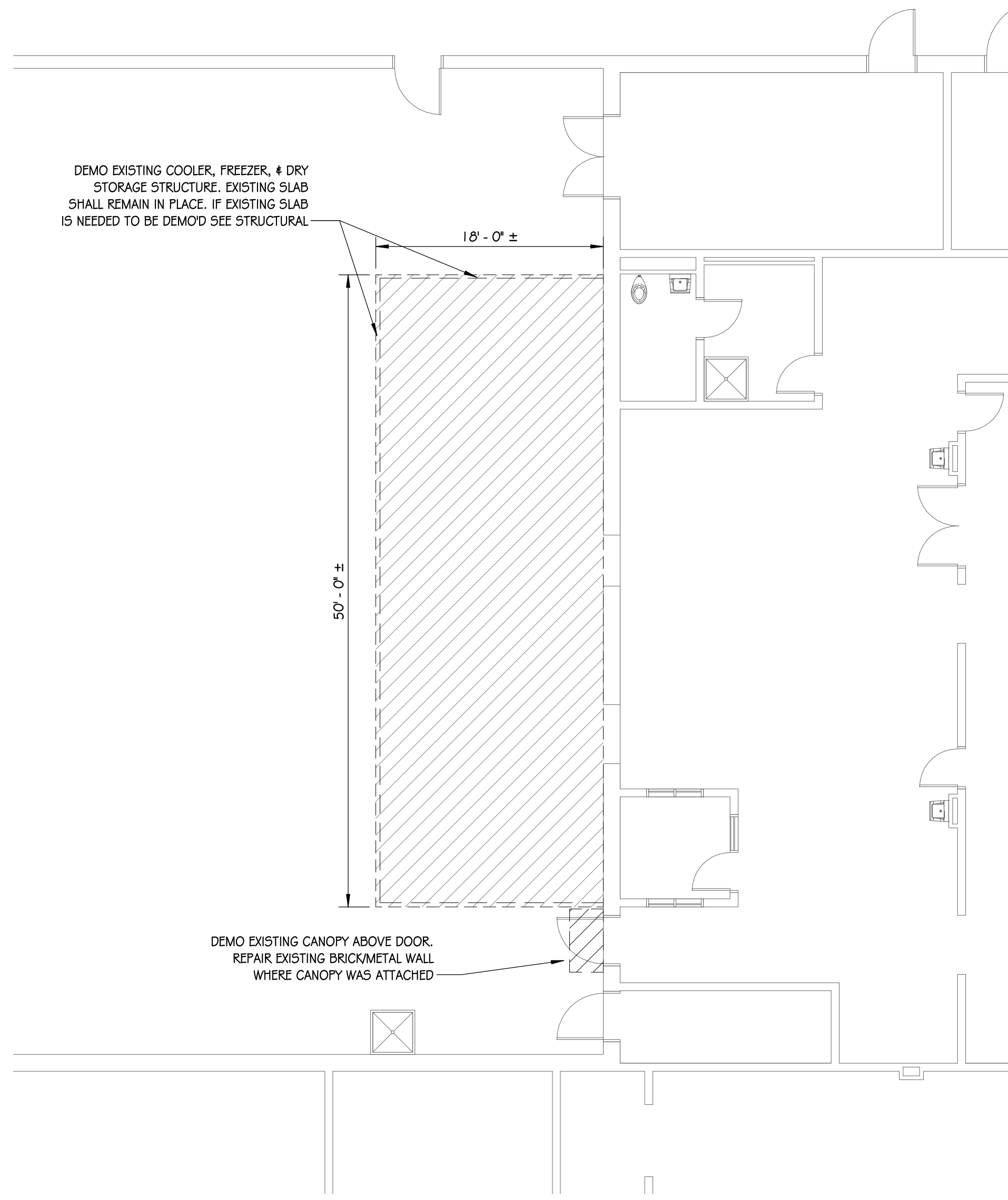
Jumper Carter Sease ARCHITECTS. 412 Meeting Street West Columbia South Carolina.



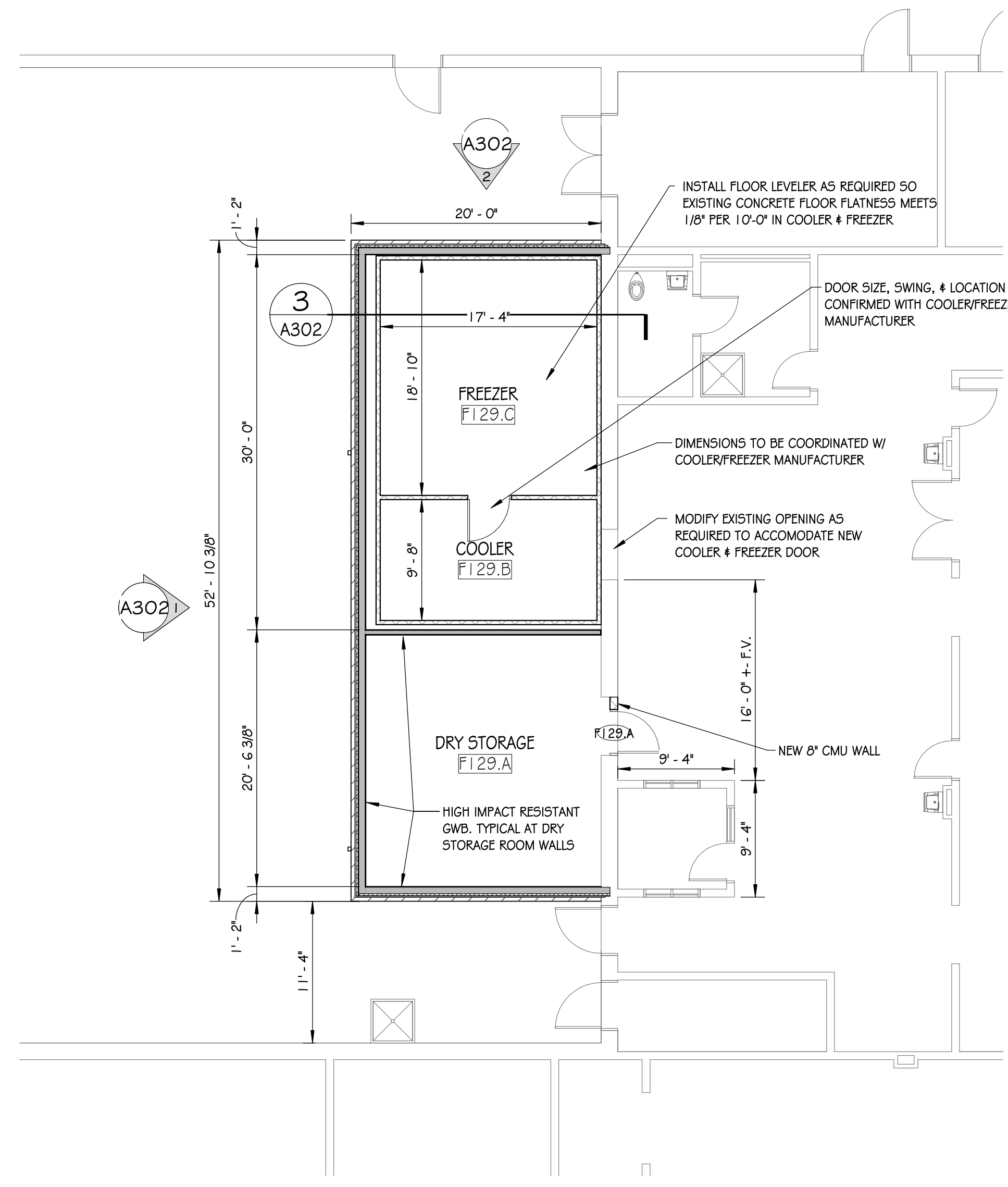
SPRINGFIELD MIDDLE SCHOOL COOLER & FREEZER ENCLOSURE REPLACEMENT FORT MILL SCHOOL DISTRICT 1711 SPRINGFIELD PARKWAY, FORT MILL, SC

Form for tracking documents and inspections. Includes columns for Date, Description, No, and checkboxes for DRAWN BY, CHECKED BY, COMM NO, DATE, SHEET TITLE, and SHEET NO.

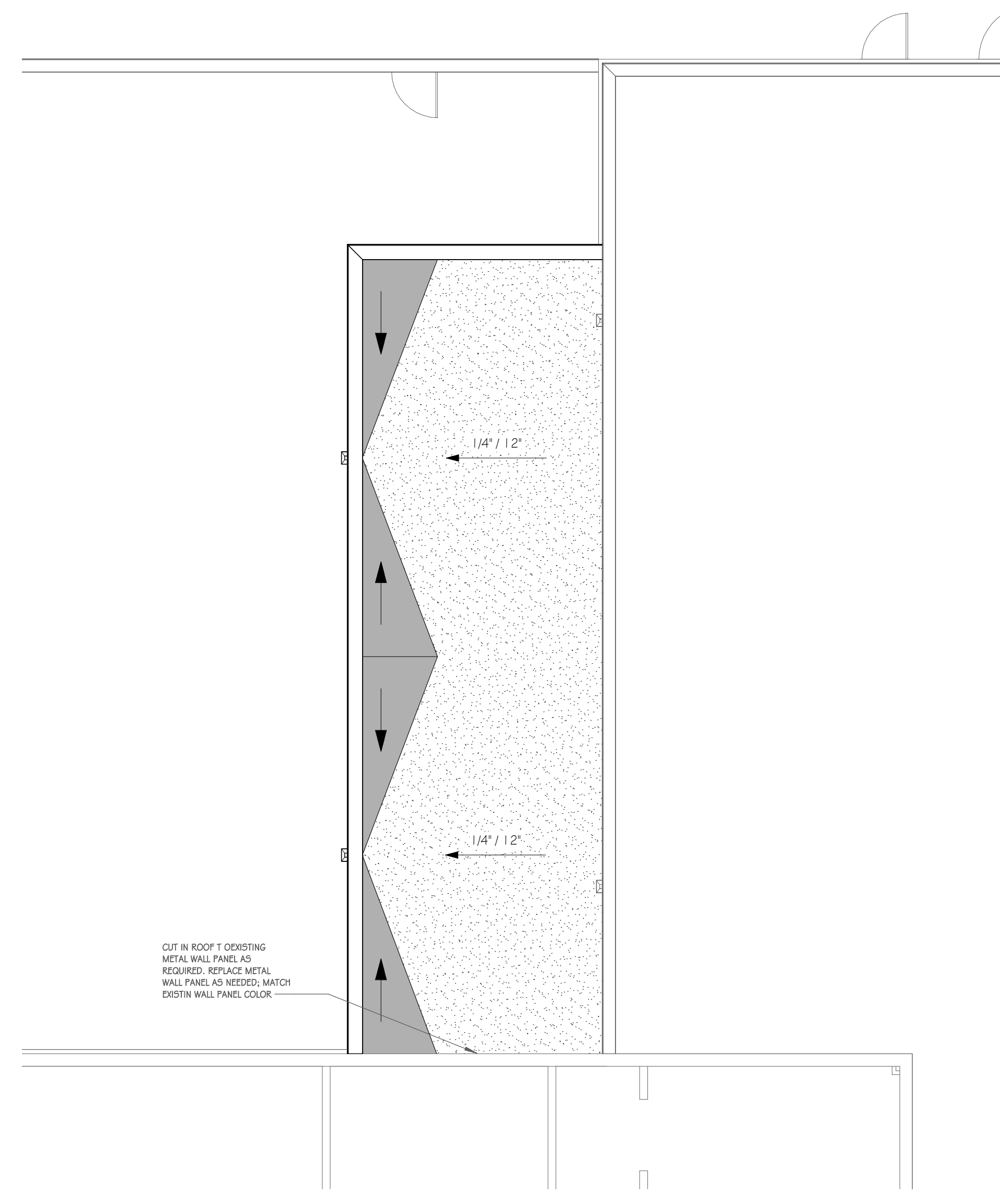
C:\Users\jsease\Documents\Revit\22004 - FMSD\4 - Springfield Middle - Cooler/Freezer Enclosure - v20_jsease@csarchitects.com.rvt



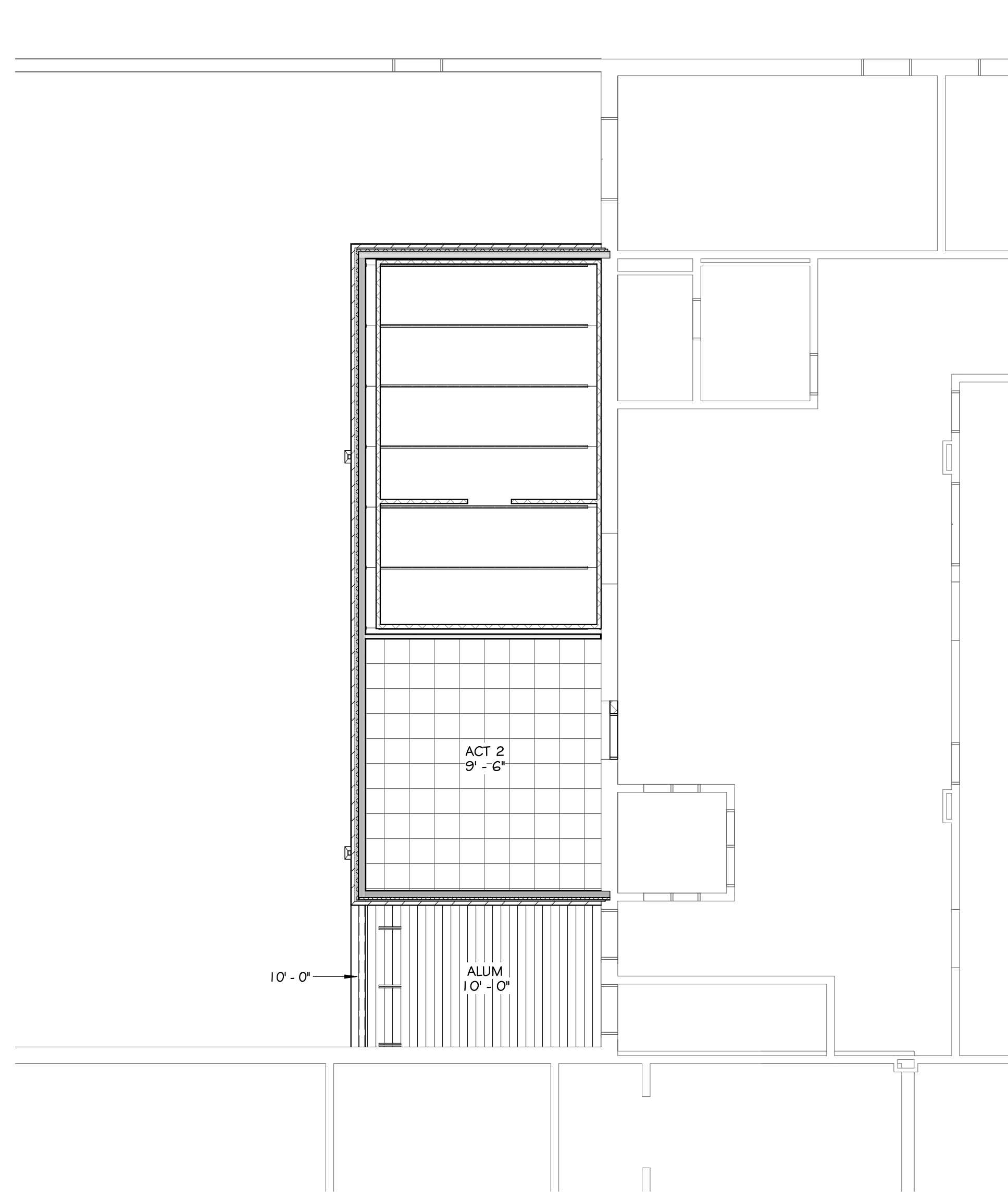
1 DEMO FLOOR PLAN
A30 1/8" = 1'-0"



2 FLOOR PLAN
A30 1/8" = 1'-0"



3 ROOF PLAN
A30 1/8" = 1'-0"



4 CEILING PLAN
A30 1/8" = 1'-0"

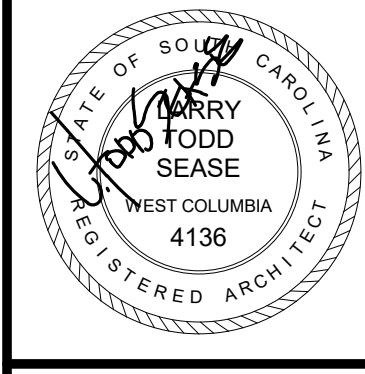
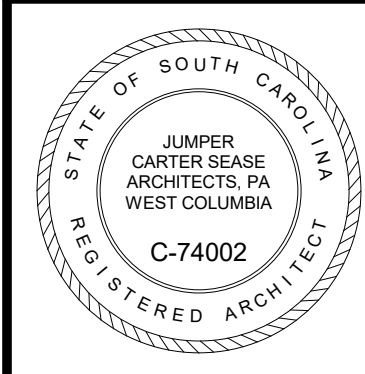
WALL LEGEND

	3-5/8" METAL STUDS @ 16"oc WITH 5/8" HIGH IMPACT RESISTANT GWB EACH SIDE
	1'-2" EXTERIOR WALL WITH 6" METAL STUDS @ 16"oc WITH FACE BRICK AND 5/8" GWB ON INTERIOR SIDE. SEE WALL SECTIONS

- GENERAL NOTES**
- ALL OUTSIDE CORNERS OF INTERIOR MASONRY WALLS SHALL HAVE BULLNOSE RADIUS CMU, UNLESS SCHEDULED TO RECEIVE CERAMIC WALL TILE OR OTHER VENEER FINISH. THE FIRST CMU BLOCK ABOVE FINISH FLOOR IS TO BE SQUARE AND THE CMU BLOCK AT THE FINISH CEILING AND GWB SOFFITS/BULKHEADS ARE TO BE SQUARE. ALL CMU NOT 90° CORNERS MUST ALSO BE SPECIAL SHAPE AS SINGLE BLOCK WITH EXPOSED OUTSIDE CORNER BULLNOSE. SEE DETAIL ON MISC. DTL. SHT.
 - ALL MASONRY WALL INFILLS SHALL BE TOOTHED-IN.
 - C.J. = CONSTRUCTION JOINT AT CMU. SEE TYPICAL DETAILS. SPACE 40'-0" MAX. VERIFY LOCATIONS WITH ELEVATIONS OR ARCHITECT IF NOT SHOWN PRIOR TO INSTALLATION.
 - ALL MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION ROUGH-INS AT EXPOSED AREAS ARE TO BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALL. ALL CONDUITS AND PIPING MUST BE COORDINATED WITH OTHER TRADES AND CONCEALED. RELOCATION OF ROUGH-INS BY ANY TRADE AS DIRECTED BY THE ARCHITECT WILL BE AT NO COST TO OWNER WHEN CONTRACTOR FAILS TO COMPLY WITH THIS REQUIREMENT.
 - CONSTRUCTION WORK IS TO BE PERFORMED DURING THE SUMMER BREAK WHILE THE BUILDING IS UNOCCUPIED BY STUDENTS OR STAFF

**Jumper
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ARCHITECTS

412 Meeting Street
West Columbia
South Carolina



SPRINGFIELD MIDDLE SCHOOL COOLER & FREEZER ENCLOSURE REPLACEMENT
FORT MILL SCHOOL DISTRICT
1711 SPRINGFIELD PARKWAY, FORT MILL, SC

BID DOCUMENTS

No	Description	Date

DRAWN BY: **HS**
CHECKED BY: **TS**
COMM NO: **22004**
DATE: **11/21/23**

SHEET TITLE:
DEMO FLOOR PLAN,
FLOOR PLAN, ROOF
PLAN, & CEILING
PLAN

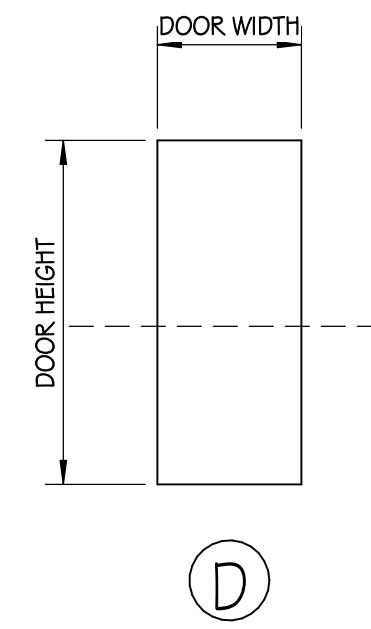
SHEET NO:
A301

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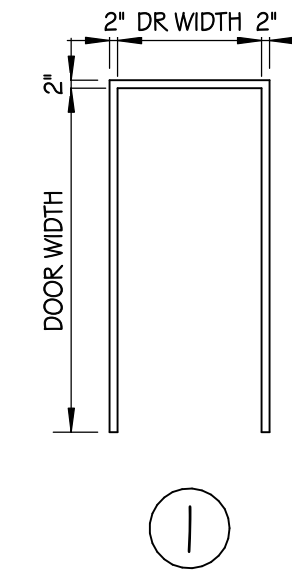
FINISH SCHEDULE ABBREVIATIONS	
ACT	ACOUSTICAL CEILING TILE
CONC	CONCRETE
QFT	QUARRY FLOOR TILE
QTB	QUARRY TILE BASE
PNT	PAINT

GENERAL FINISH NOTES APPLY TO ALL AREAS OR THOSE GENERAL FINISH NOTES: NOT SPECIFICALLY NOTED ON SCHEDULE.

- SEE REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS.
- ALL HOLLOW METAL FRAMES TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
- EPOXY PAINT TO BE USED AT DRY STORAGE ROOM AND KITCHEN WALLS.
- ACT-2 = VINYL FACED OR MOISTURE RESISTANT TILE
SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- QUARRY TILE IS TO HAVE EPOXY GROUT. COLOR TO BE SELECTED BY ARCHITECT.



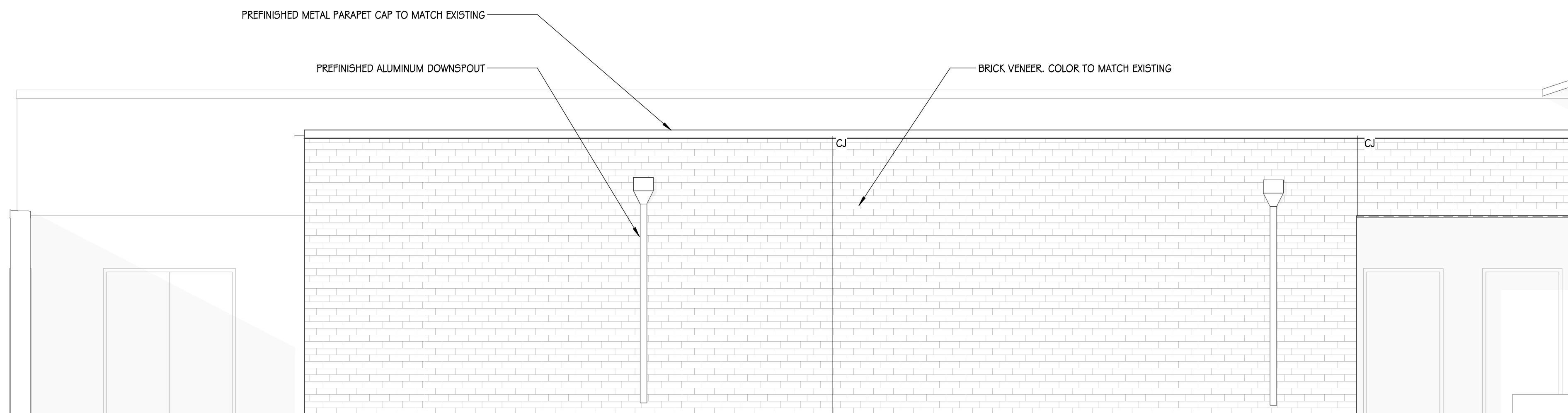
DOOR TYPES
1/4" = 1'-0"



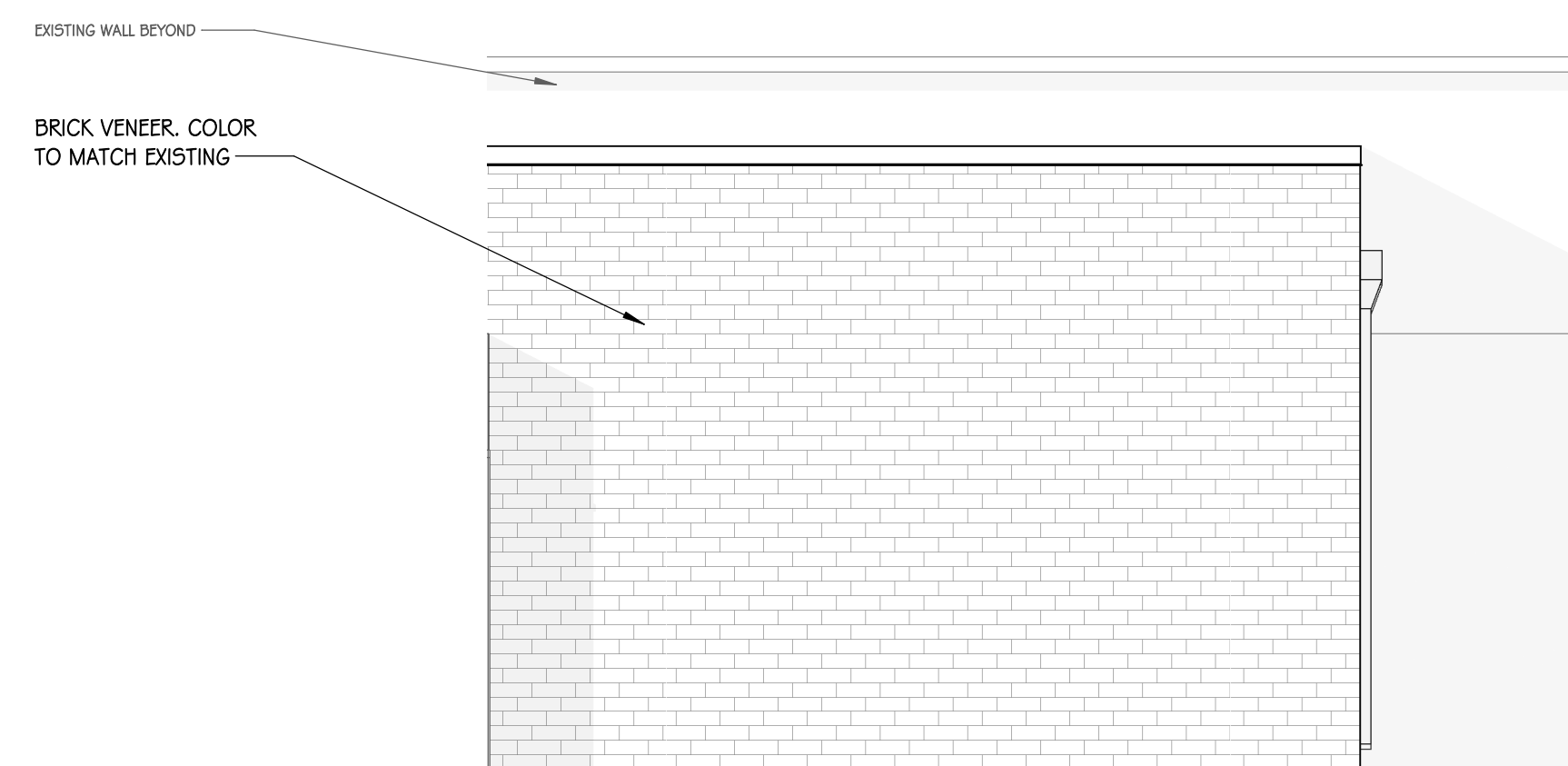
FRAME TYPES
1/4" = 1'-0"

DOOR SCHEDULE															
DOOR #	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	GLASS SIZE	GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	RATING	REMARKS
F129.A	D	3'-4"	7'-2"	HM	PAINT			I	HM	PAINT	H-1	J-1			

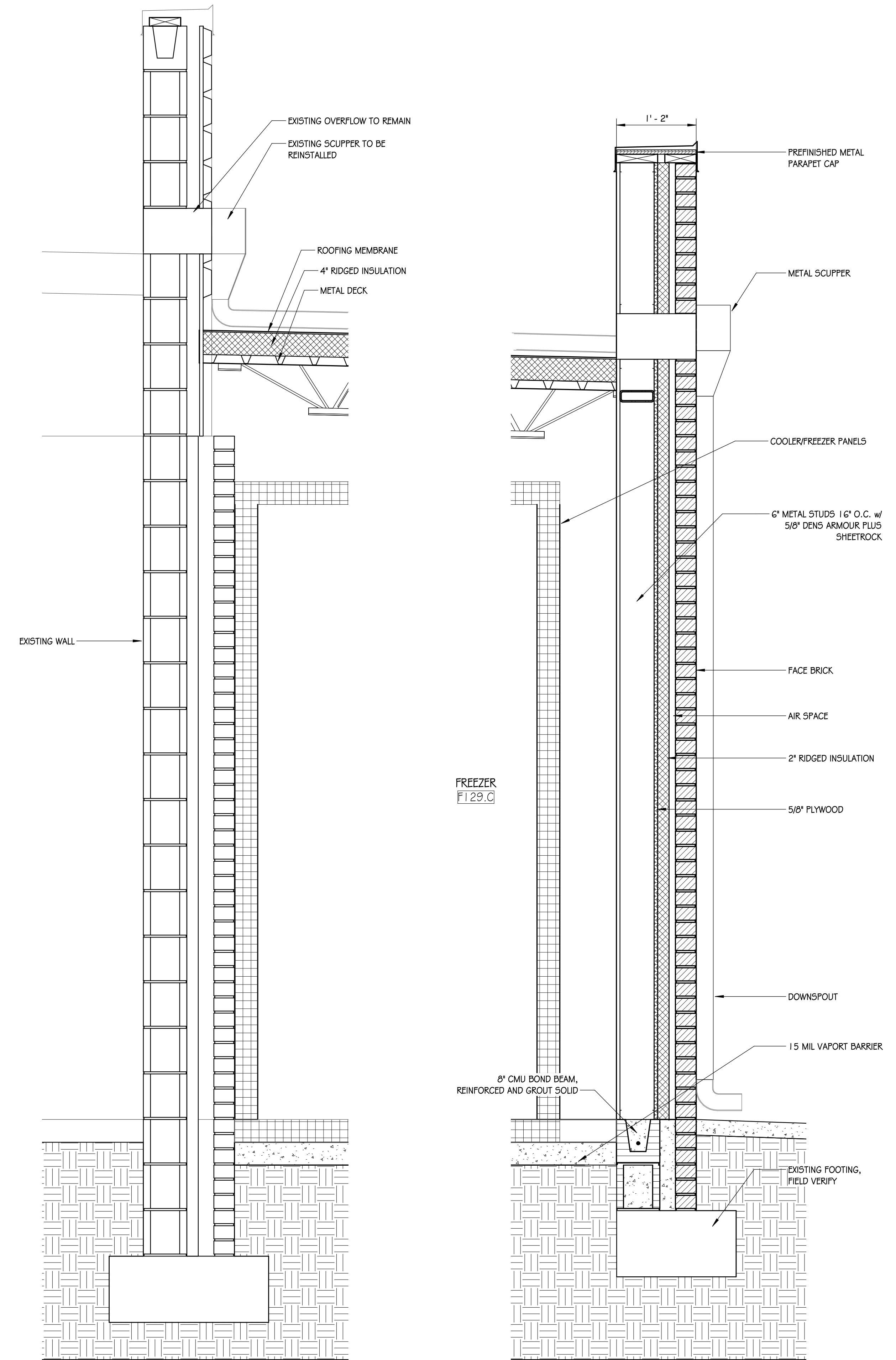
FINISH SCHEDULE								
ROOM #	ROOM NAME	FLOOR FINISH	BASE TYPE	WALL NORTH	WALL SOUTH	WALL EAST	WALL WEST	COMMENTS
F129.A	DRY STORAGE	QT	QTB	PAINT	PAINT	PAINT	PAINT	
F129.B	COOLER	PREFINISHED		PREFINISHED	PREFINISHED	PREFINISHED	PREFINISHED	
F129.C	FREEZER	PREFINISHED		PREFINISHED	PREFINISHED	PREFINISHED	PREFINISHED	



1 FRONT ELEVATION
1/4" = 1'-0"



2 SIDE ELEVATION
1/4" = 1'-0"



3 WALL SECTION - 01
1" = 1'-0"

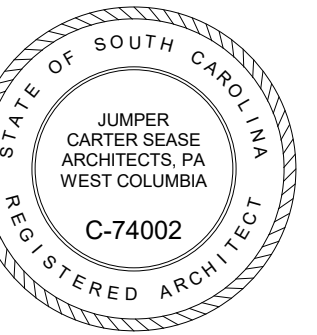
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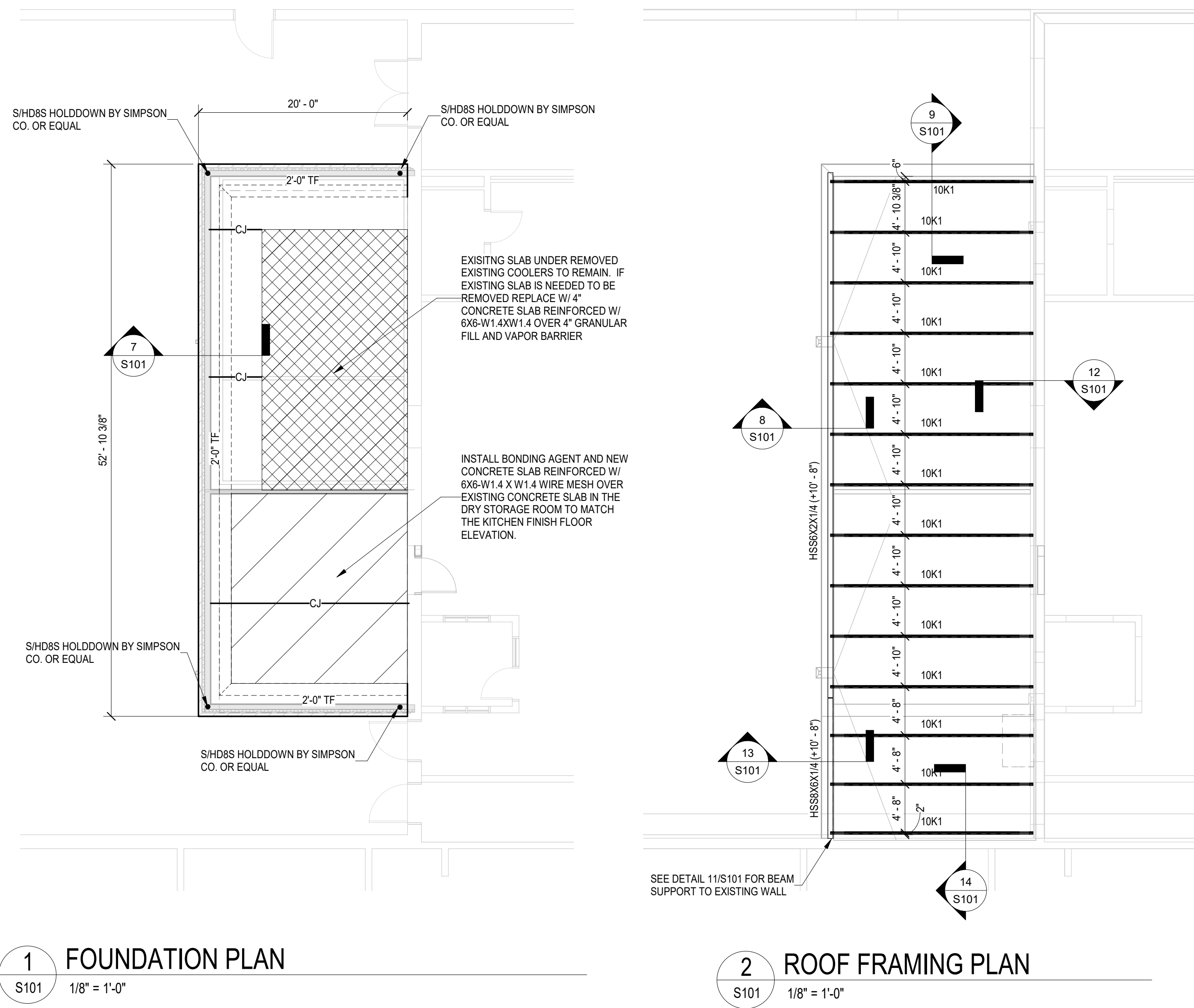
SPRINGFIELD MIDDLE SCHOOL COOLER & FREEZER
ENCLOSURE REPLACEMENT
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BID DOCUMENTS

No	Description	Date

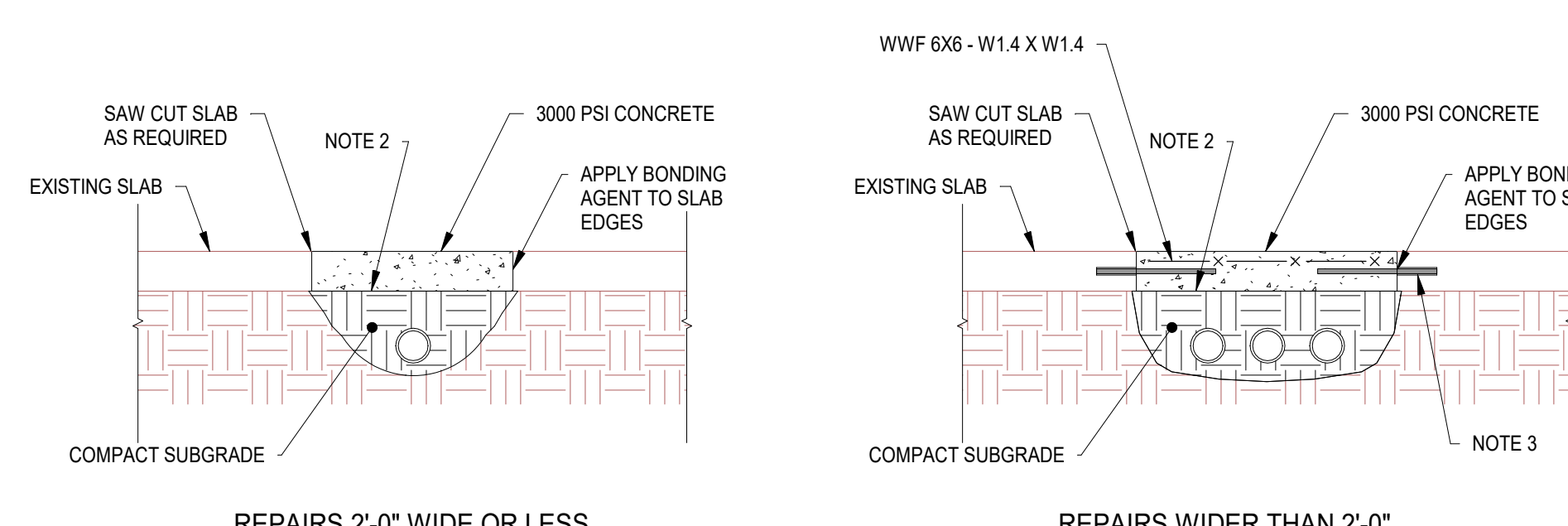
DRAWN BY: **HS**
CHECKED BY: **TS**
COMM NO: **22004**
DATE: **11/21/23**
SHEET TITLE:
**ELEVATIONS,
SECTIONS, DOOR
SCHEDULE, & FINISH
SCHEDULE**

SHEET NO:
A302

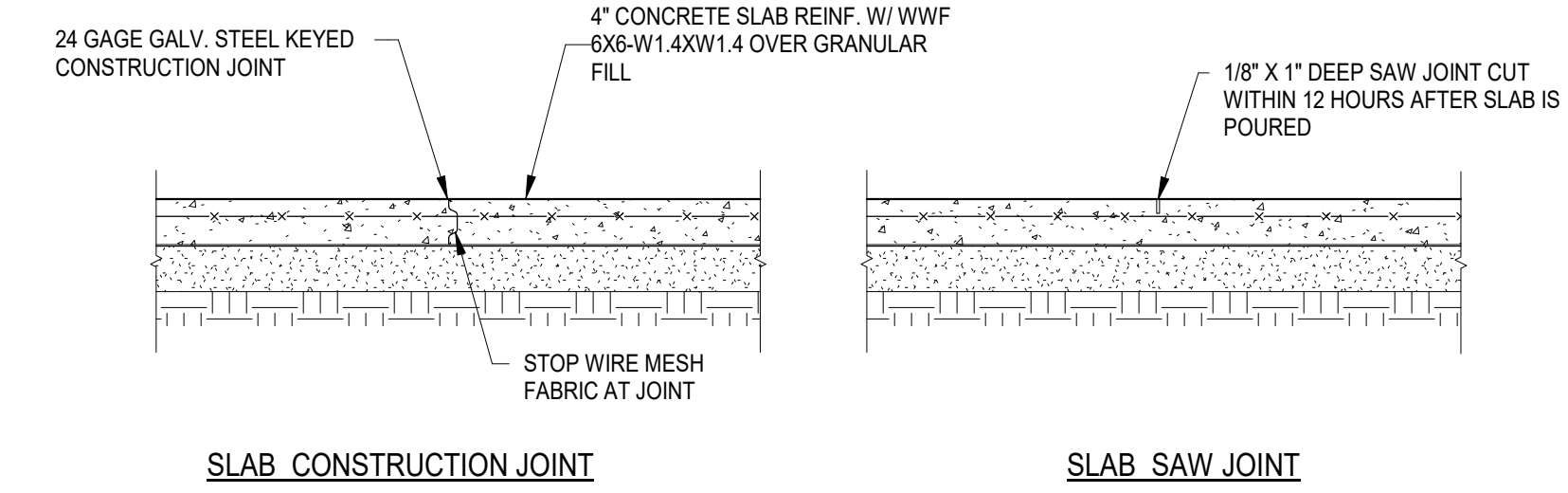


1 FOUNDATION PLAN
S101 1/8" = 1'-0"

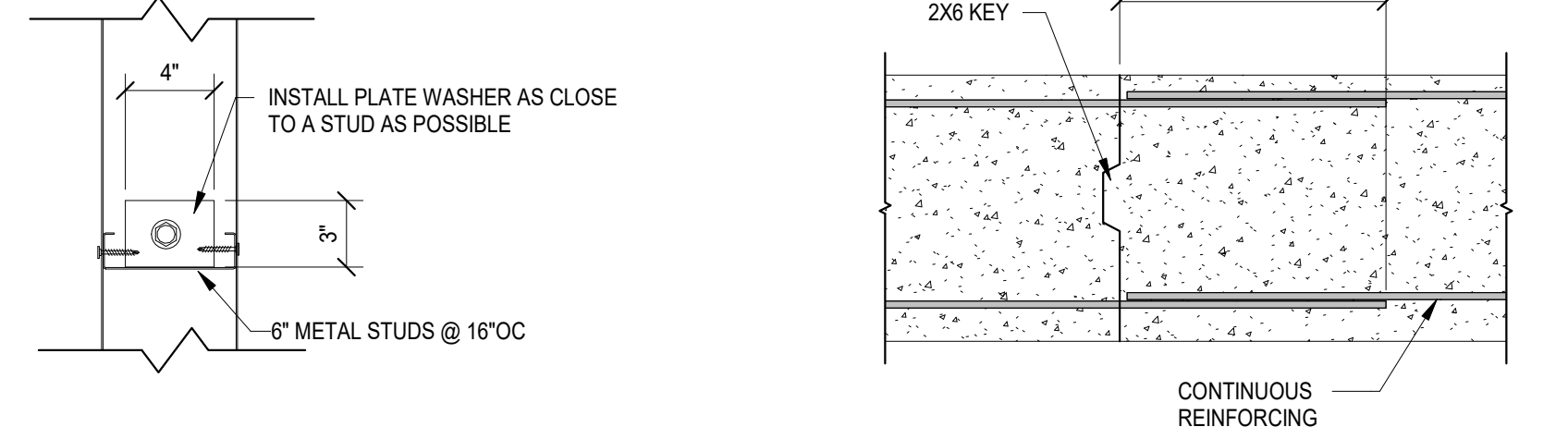
2 ROOF FRAMING PLAN
S101 1/8" = 1'-0"



3 SLAB PATCH DETAILS
S101 3/4" = 1'-0"
NOTES:
1. SEE THE DRAWINGS OF ALL OTHER DISCIPLINES FOR AREA WHERE EXISTING SLABS MUST BE CUT. REPAIR CUT AREAS AS SHOWN ABOVE.
2. IF EXISTING SLAB HAS A VAPOR BARRIER, PROVIDE NEW VAPOR BARRIER OVER COMPACTED SUBGRADE AND TUCK UNDER EDGES OF EXISTING SLAB.
3. AT SIDES OF SLAB REPAIRS WIDER THAN 2'-0", PROVIDE 12" LONG #4 DOWELS @ 24" OC DRILL AND EPOXY GROUT 4" INTO EXISTING SLAB.



4 SLAB JOINT DETAILS
S101 3/4" = 1'-0"
NOTES:
1. CONSTRUCTION JOINTS AND SAW JOINTS ARE NOTED "CJ" ON FOUNDATION PLAN.
2. CONTRACTOR HAS THE OPTION OF WHERE TO PLACE CONSTRUCTION AND SAW JOINTS.

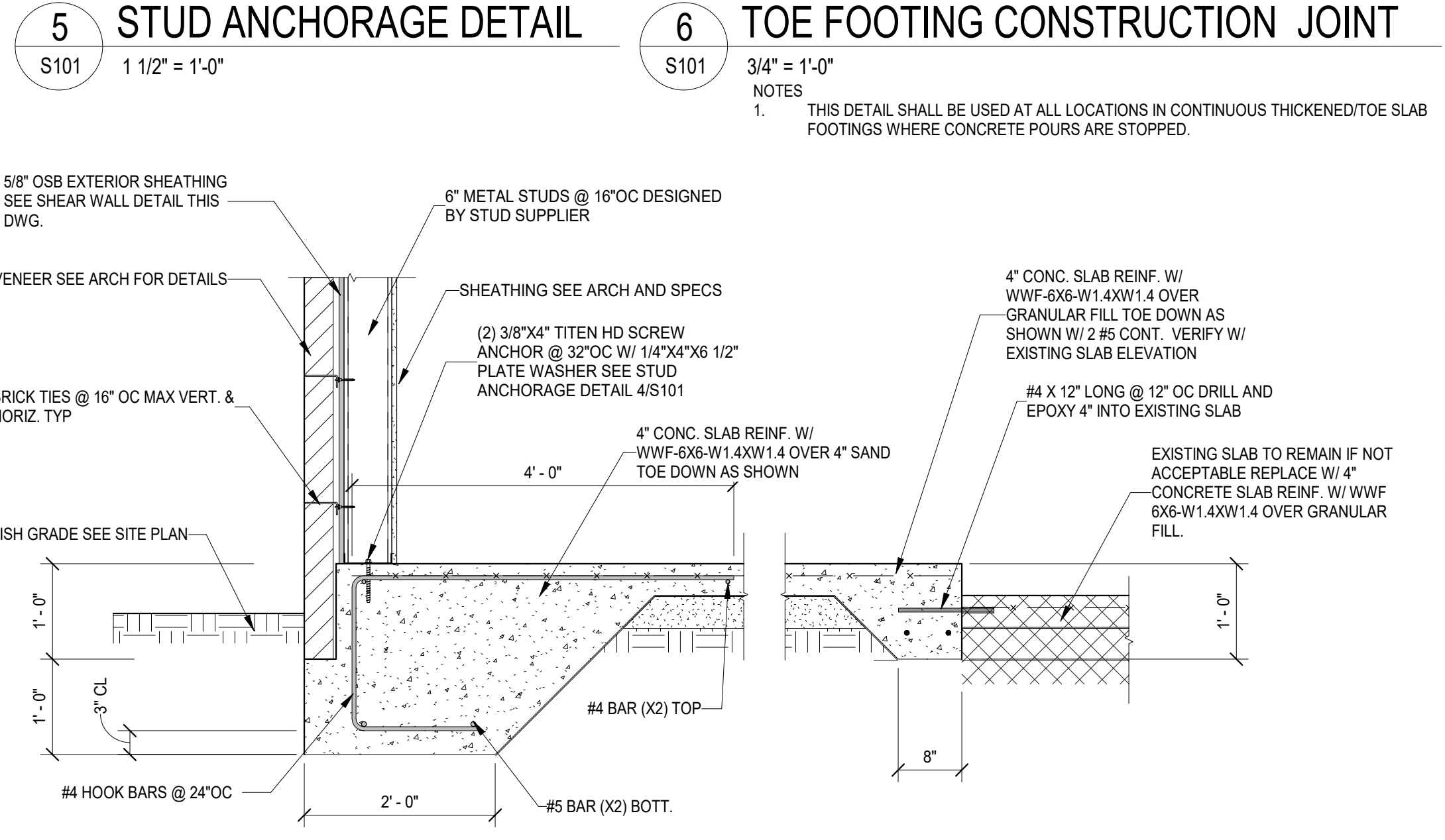


5 STUD ANCHORAGE DETAIL
S101 1 1/2" = 1'-0"

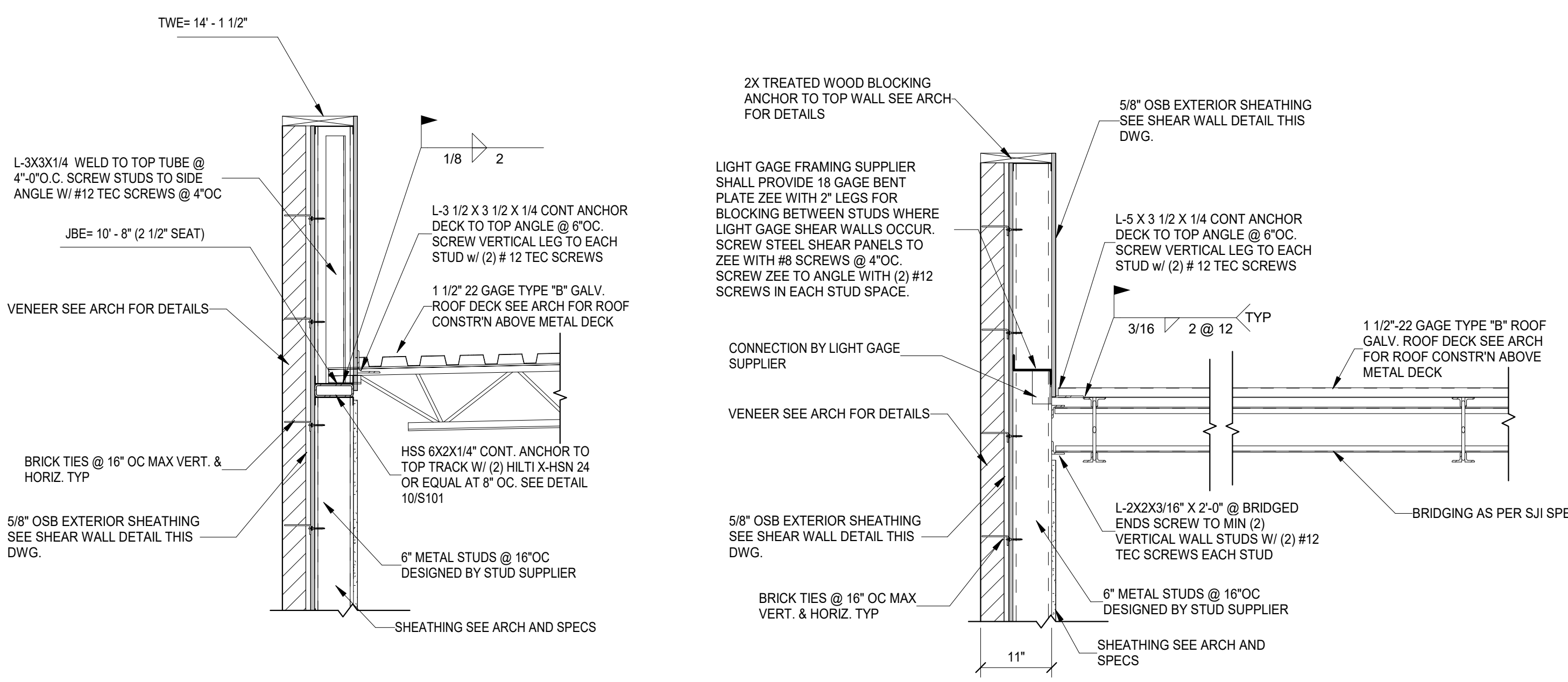
6 TOE FOOTING CONSTRUCTION JOINT
S101 3/4" = 1'-0"
NOTES:
1. THIS DETAIL SHALL BE USED AT ALL LOCATIONS IN CONTINUOUS THICKENED TOE SLAB FOOTINGS WHERE CONCRETE POURS ARE STOPPED.

MASONRY POST-INSTALLED ANCHOR TABLE				
TYPE	MANUFACTURER	PRODUCT	BASE MATERIAL	DIAMETER/SIZE
SCREW ANCHOR	HILTI	KWIK HUS-EZ	GROUTED CONCRETE BLOCK	1/4" TO 3/4"
	POWERS	WEDGE-BOLT+ w/ WEDGE BIT	GROUTED CONCRETE BLOCK	1/4" TO 3/4"
EXPANSION ANCHOR	HILTI	TITEN HD	GROUTED CONCRETE BLOCK	3/8" TO 3/4"
	POWERS	POWER-STUD + SD1	GROUTED CONCRETE BLOCK	1/4" TO 3/4"
ADHESIVE ANCHOR	HILTI	HIT-HY 270	GROUTED CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD 1/4" TO 3/4"
	POWERS	T308+	FULLY GROUTED HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD 3/4"
ADHESIVE ANCHOR	HILTI	HIT-HY 270	HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD 3/8" TO 3/4"
	POWERS	T308+	FULLY GROUTED HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD 3/8" TO 3/4"
ADHESIVE ANCHOR	SIMPSON	SET	FULLY GROUTED HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD 1/2" TO 3/4"
	SIMPSON	SET-XP	FULLY GROUTED HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD 3/8" TO 3/4"

NOTES:
1. THIS SELECTION TABLE SHALL BE USED WHEN ANCHOR RODS OR REBARS WITH ANCHOR ADHESIVE, EXPANSION ANCHORS OR SCREW ANCHORS ARE CALLED OUT ON THE DRAWINGS. THE ADHESIVES SHOWN SHALL ALSO BE USED WHERE THE TERM EPOXY IS USED ON THE STRUCTURAL DRAWINGS.
2. ADHESIVE ANCHORS HOLES SHALL BE CLEANED PER THE MANUFACTURER RECOMMENDATIONS INCLUDING USING A BRUSH AND 100 PSI MINIMUM OR THE MANUFACTURERS REQUIRED COMPRESSED AIR.
3. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. (MP1)
4. SCREW AND EXPANSION ANCHORS SHALL MEET THE EMBEDMENT DEPTHS AS SPECIFIED IN THE DRAWINGS BUT NOT LESS THAN THE MINIMUM OF 7 TIMES THE ANCHOR DIAMETER.
5. ADHESIVE ANCHORS SHALL MEET THE EMBEDMENT DEPTHS AS SPECIFIED IN THE DRAWINGS. IF NO EMBEDMENT IS SPECIFIED, EMBED 12 TIMES THE ANCHOR DIAMETER.
6. CONTACT THE ENGINEER OF RECORD FOR APPROVAL OF ANY OTHER ANCHOR TYPE OR DIAMETER PRIOR TO INSTALLATION.

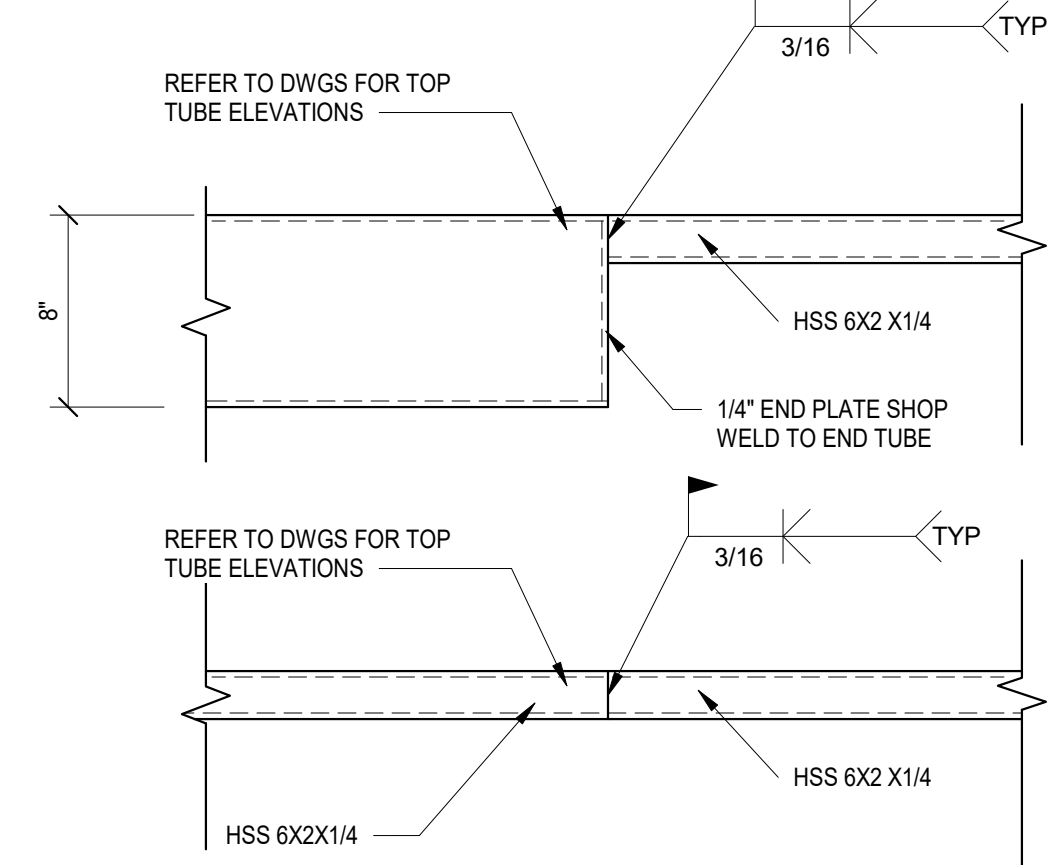


7 SECTION
S101 3/4" = 1'-0"

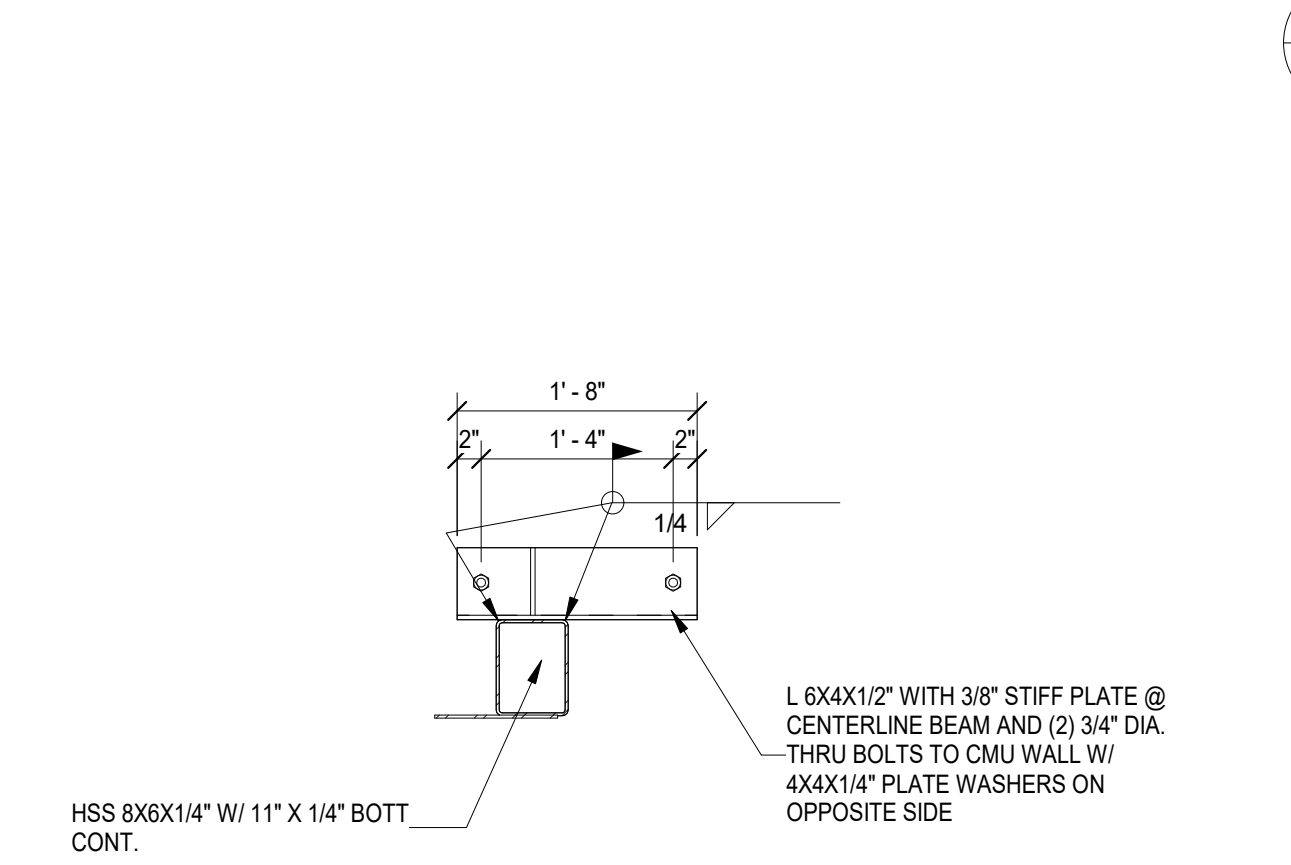


8 SECTION
S101 3/4" = 1'-0"

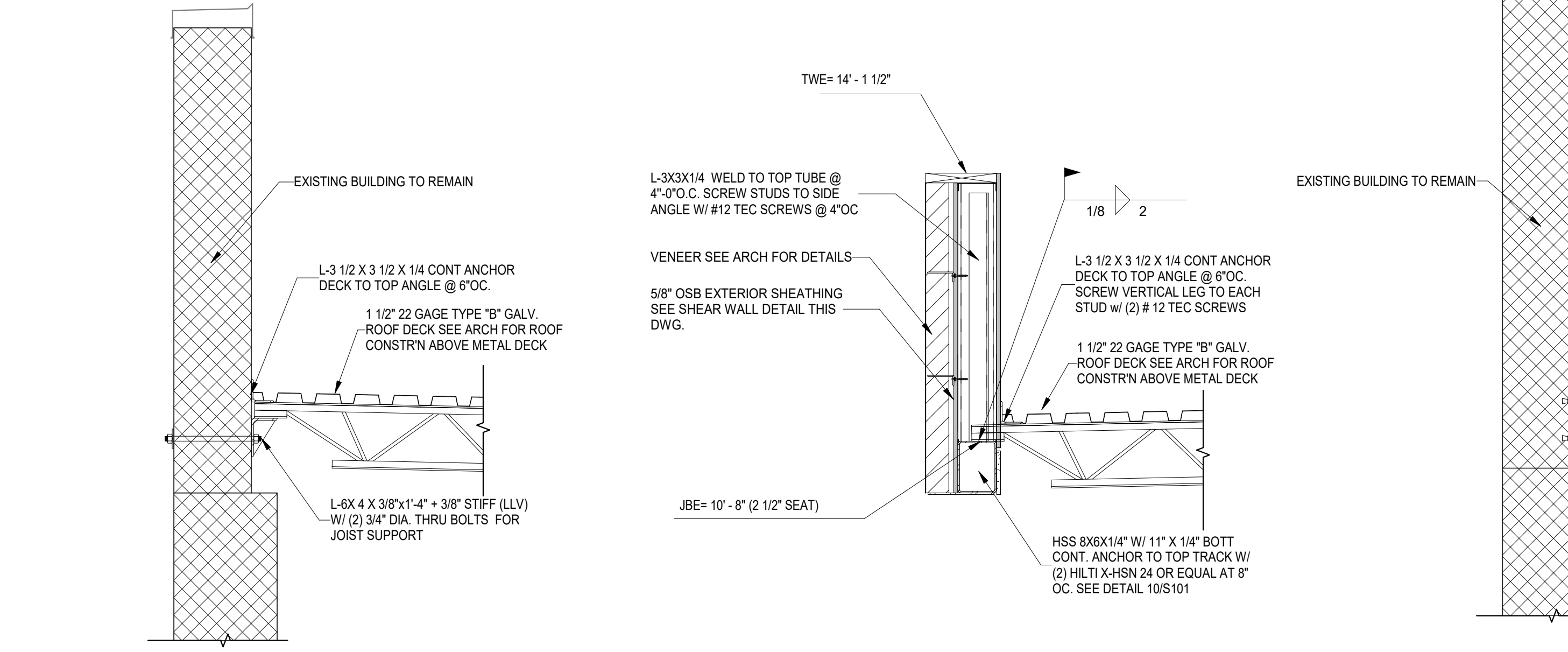
9 SECTION
S101 3/4" = 1'-0"



10 HSS TUBE SPLICE DETAIL
S101 1 1/2" = 1'-0"
NOTES:
1. FIELD SPLICE ALL CONTINUOUS HSS 6"x2" AND 8" TUBES AT JOINTS AS SHOWN ABOVE.



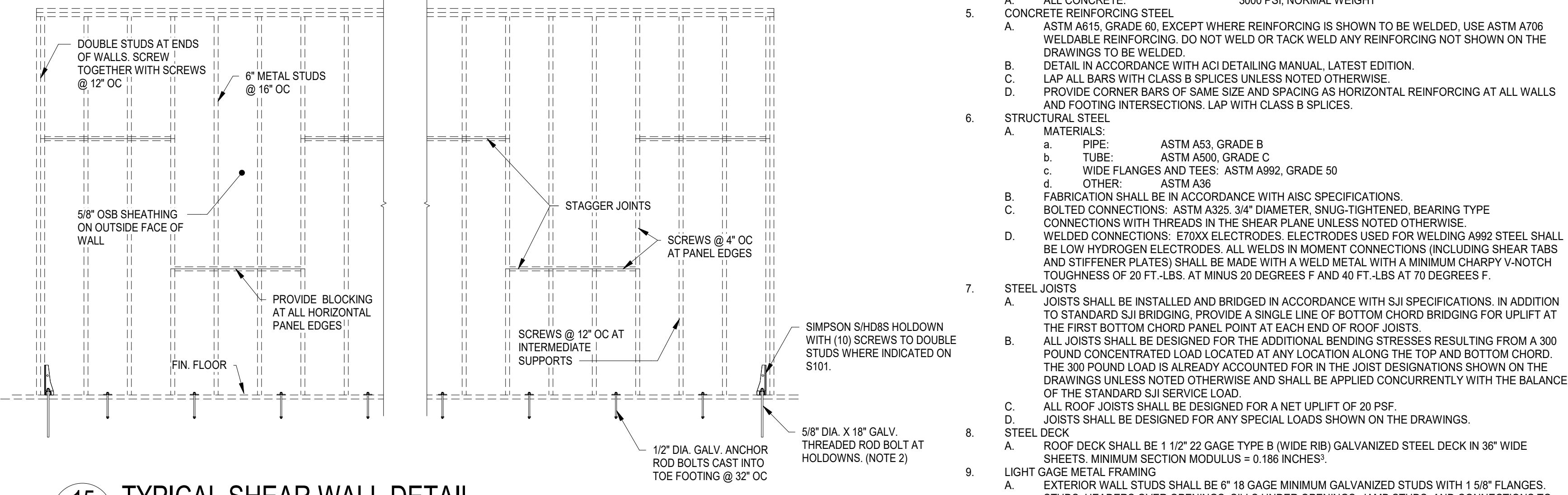
11 HSS TUBE CONNECTION TO EXISTING WALL
S101 3/4" = 1'-0"
NOTES:
1. IF THRU BOLTS CAN NOT BE USED USE 3/4" DIAMETER EPOXY ANCHORS WITH MINIMUM 5" EMBEDMENT.



12 SECTION
S101 3/4" = 1'-0"

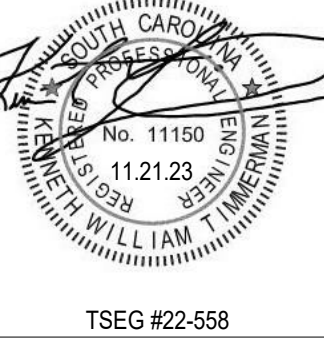
13 SECTION
S101 3/4" = 1'-0"

14 SECTION
S101 3/4" = 1'-0"



15 TYPICAL SHEAR WALL DETAIL
S101 3/8" = 1'-0"
NOTES:
1. AT EXTERIOR WALLS, INSTALL 5/8" OSB SHEATHING ON OUTSIDE FACE OF WALL.
2. SCREWS ARE #8 MINIMUM MODIFIED TRUSS HEAD SCREWS.
3. DOUBLE STUDS AT ENDS OF PANELS SHALL BE UNPINCHED.
4. PROVIDE SIMPSON SHD88S HOLD-DOWN AT EACH END OF SHEAR PANELS. SCREW THROUGH BOTH WEBS OF BACK TO BACK STUDS.
5. BOLT HOLD-DOWN TO CONCRETE AT EACH END OF SHEAR PANEL WITH 7/8" X 1/4" DIAMETER THREADED ROD ANCHOR BOLT. DRILL AND GROUT INTO CONCRETE WITH APPROVED EPOXY.

GENERAL NOTES
1. IN CASE OF DISCREPANCY BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, CONSULT WITH THE ARCHITECT FOR DIMENSIONS AND DETAILS NOT SHOWN. SEE THE ARCHITECTURAL DRAWINGS. VERIFY ALL MECHANICAL OPENINGS AND SUPPORTS WITH THE MECHANICAL EQUIPMENT. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION.
2. DESIGN CRITERIA
A. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
B. RISK CATEGORY: III
C. SEISMIC DESIGN DATA:
a. IMPORTANCE FACTOR: 1.25
b. S_s = 0.218 S_i = 0.086
c. SD₁ = 0.233 SD₀ = 0.138
d. SITE CLASS D ASSUMED, SEISMIC DESIGN CATEGORY C
e. DESIGN BASE SHEAR:
f. SEISMIC RESPONSE COEFFICIENT: C_s = 0.045
g. BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. R = 8.5
h. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
D. WIND VELOCITY 119 MPH. EXPOSURE C. INTERNAL PRESSURE COEFFICIENT +/- 0.18. SEE DIAGRAM AND CHART AT LEFT FOR COMPONENTS AND CLADDING DESIGN PRESSURES.
E. ROOF LIVE LOAD: 20 PSF
F. GROUND SNOW LOAD: 10 PSF
G. FLOOR LIVE LOADS:
a. COOLERS: 100 PSF
3. FOUNDATION DESIGN IS BASED ON THE ASSUMED ALLOWABLE BEARING PRESSURE LISTED BELOW. CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING LABORATORY ACCEPTABLE TO THE ARCHITECT TO VERIFY THE ALLOWABLE BEARING PRESSURE BEFORE FOOTINGS ARE CONSTRUCTED OR REINFORCING IS FABRICATED.
A. ASSUMED ALLOWABLE BEARING PRESSURE = 2500 PSF
B. STEP FOOTINGS AS REQUIRED TO LET UTILITIES PASS OVER FOOTINGS.
4. CONCRETE: 28-DAY COMPRESSIVE STRENGTHS SHALL BE AS FOLLOWS:
A. ALL CONCRETE: 3000 PSI, NORMAL WEIGHT
5. CONCRETE REINFORCING STEEL
A. ASTM A615, GRADE 60, EXCEPT WHERE REINFORCING IS SHOWN TO BE WELDED. USE ASTM A706 WELDABLE REINFORCING. DO NOT WELD OR TACK WELD ANY REINFORCING NOT SHOWN ON THE DRAWINGS TO BE WELDED.
B. DETAIL IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION.
C. LAP ALL BARS WITH CLASS B SPLICES UNLESS NOTED OTHERWISE.
D. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING AT ALL WALLS AND FOOTING INTERSECTIONS. LAP WITH CLASS B SPLICES.
6. STRUCTURAL STEEL
A. MATERIALS:
a. PIPE: ASTM A53, GRADE B
b. TUBE: ASTM A500, GRADE C
c. WIDE FLANGES AND TEES: ASTM A992, GRADE 50
d. OTHER: ASTM A36
B. FABRICATION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS.
C. BOLTED CONNECTIONS: ASTM A325, 3/4" DIAMETER, SNUG-TIGHTENED, BEARING TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE UNLESS NOTED OTHERWISE.
D. WELDED CONNECTIONS: E70XX ELECTRODES. ELECTRODES USED FOR WELDING A992 STEEL SHALL BE LOW HYDROGEN ELECTRODES. ALL WELDS IN MOMENT CONNECTIONS (INCLUDING SHEAR TABS AND STIFFENER PLATES) SHALL BE MADE WITH A WELD METAL WITH A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS. AT MINUS 20 DEGREES F AND 40 FT.-LBS AT 70 DEGREES F.
7. STEEL JOISTS
A. JOISTS SHALL BE INSTALLED AND BRIDGED IN ACCORDANCE WITH SJI SPECIFICATIONS. IN ADDITION TO STANDARD SJI BRIDGING, PROVIDE A SINGLE LINE OF BOTTOM CHORD BRIDGING FOR UPLIFT AT THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF ROOF JOISTS.
B. ALL JOISTS SHALL BE DESIGNED FOR THE ADDITIONAL BENDING STRESSES RESULTING FROM A 300 POUND CONCENTRATED LOAD LOCATED AT ANY LOCATION ALONG THE TOP AND BOTTOM CHORD. THE 300 POUND LOAD IS ALREADY ACCOUNTED FOR IN THE JOIST DESIGNATIONS SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE AND SHALL BE APPLIED CONCURRENTLY WITH THE BALANCE OF THE STANDARD SJI SERVICE LOAD.
C. ALL ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 20 PSF.
D. JOISTS SHALL BE DESIGNED FOR ANY SPECIAL LOADS SHOWN ON THE DRAWINGS.
8. STEEL DECK
A. ROOF DECK SHALL BE 1 1/2" 22 GAGE TYPE B (WIDE RIB) GALVANIZED STEEL DECK IN 36" WIDE SHEETS. MINIMUM SECTION MODULUS = 0.186 INCHES.
B. EXTERIOR WALL STUDS SHALL BE #18 GAGE MINIMUM GALVANIZED STUDS WITH 1 5/8" FLANGES. STUDS, HEADERS OVER OPENINGS, SILLS UNDER OPENINGS, JAMB STUDS, AND CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN SOUTH CAROLINA FOR THE DESIGN CRITERIA IN GENERAL NOTE 2 ABOVE. SHOP DRAWINGS AND CALCULATIONS FOR LIGHT GAGE METAL FRAMING AND ITS CONNECTIONS SHALL BE PREPARED AND SUBMITTED UNDER THE SEAL OF AN ENGINEER REGISTERED IN SOUTH CAROLINA.
9. LIGHT GAGE METAL FRAMING
A. PROVIDE DOUBLE STUDS AT JAMBS OF OPENINGS 5" WIDE OR LESS. PROVIDE TRIPLE STUDS AT JAMBS OF OPENINGS WIDER THAN 5".
B. TRACKS SHALL BE 16 GA. ATTACH TO STEEL WITH 0.145" DIAMETER POWER DRIVEN FASTENERS @ 16" OC. FASTENERS MUST PENETRATE CONCRETE A MINIMUM OF 1 1/8".



No	Description	Date

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CHECKED BY: **KWT**
COMM NO: **22004**
DATE: **11/21/23**
SHEET TITLE: **STRUCTURAL PLANS AND SECTION**

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE						
TAG	DAIKIN MODEL COND. UNIT / DAHU	COOLING CAP - MBH @ 80/67/95	HTG. CAP. - MBH @ 47°F	AIRFLOW CFM	SEER/HSPF	REMARKS
SHP-1/DAHU-1	RXB09AXVJU/FTXB09AXVJU	8.8	9.4	330	17.0/9.0	1
1. PROVIDE WITH HARD WIRED WALL MOUNTED THERMOSTAT CONTROLLER AND INTERNAL CONDENSATE PUMP WITH FLOAT SWITCH WIRED TO SHUT DOWN UNIT IN ORDER TO PREVENT CONDENSATE OVERFLOW.						

- ### GENERAL NOTES
- VISIT SITE PRIOR TO BIDDING. THIS CONTRACTOR SHALL DETERMINE DIFFICULTY OF INSTALLATION AND REFLECT THIS IN HIS BIDDING. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
 - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, AIR DISTRIBUTION, ETC.
 - ALL PIPING LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
 - ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY THROUGH ROOFS AND PARTITIONS.
 - ALL MECHANICAL ITEMS EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTERFLASHED. COORDINATE WITH ROOFING CONTRACTOR.
 - ALL PIPING IS SHOWN DIAGRAMMATIC. HOWEVER, THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, PIPING AND INSULATION FOR ALL OFFSETS AND/OR CHANGES IN ELEVATION.
 - EXTEND ALL DRAIN LINES TO NEAREST ROOF DRAIN OR CUTTER - SO ROUTED AS TO AVOID INTERFERENCE WITH PASSAGEWAYS AND MAINTENANCE.
 - PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT PER MANUFACTURER'S INSTRUCTIONS.
 - THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.
 - THIS CONTRACTOR SHALL DO ALL CONTROL WIRING. DIVISION 26 WILL DO ALL POWER WIRING. ALL WIRING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. CONTROL WIRING SHALL BE CONCEALED WITHIN WALL WHERE PRACTICAL OR ROUTED EXPOSED IN APPROVED WIRE MOLD.
 - LOCATE ALL SPACE CONTROL INSTRUMENTS 4'-0" ABOVE FINISHED FLOOR TO TOP OF DEVICE IN ACCORDANCE WITH ADA. COORDINATE LOCATIONS TO AVOID ITEMS INCLUDING BUT NOT LIMITED TO CUSTOM FINISHES, FIXED CASEWORK, FURNITURE, AND DOOR SWINGS. IN THE EVENT OF CONFLICTS IN THE FIELD, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE A/E FOR FINAL APPROVAL OF LOCATION.
 - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING HVAC SYSTEMS FROM CONSTRUCTION DEBRIS, DUST AND DIRT FOR THE ENTIRE CONSTRUCTION DURATION. DUCT CLEANING AND UNIT/COIL CLEANING SHALL BE PERFORMED AS REQUIRED. PROTECTION SHALL INCLUDE PROVIDING AND MAINTAINING MINIMUM MERV-13 FILTER MEDIA OVER ALL RETURN GRILLES AND RETURN DUCT OPENINGS TO PROTECT DUCTS AND EQUIPMENT. CONTRACTOR MUST INSPECT ALL EXISTING UNITS WITH THE OWNER PRIOR TO START OF WORK AND AT THE COMPLETION OF WORK.

Jumper

Carter

Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina



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SPRINGFIELD MIDDLE SCHOOL COOLER & FREEZER ENCLOSURE REPLACEMENT
FORT MILL SCHOOL DISTRICT
1711 SPRINGFIELD PARKWAY, FORT MILL, SC

Construction Documents

No	Description	Date

DRAWN BY: **BJJ**
 CHECKED BY: **BJJ**
 COMM NO: **22004**
 DATE: **11/21/23**
 SHEET TITLE: **FLOOR PLANS, DETAILS, NOTES, SCHEDULE, AND LEGEND**

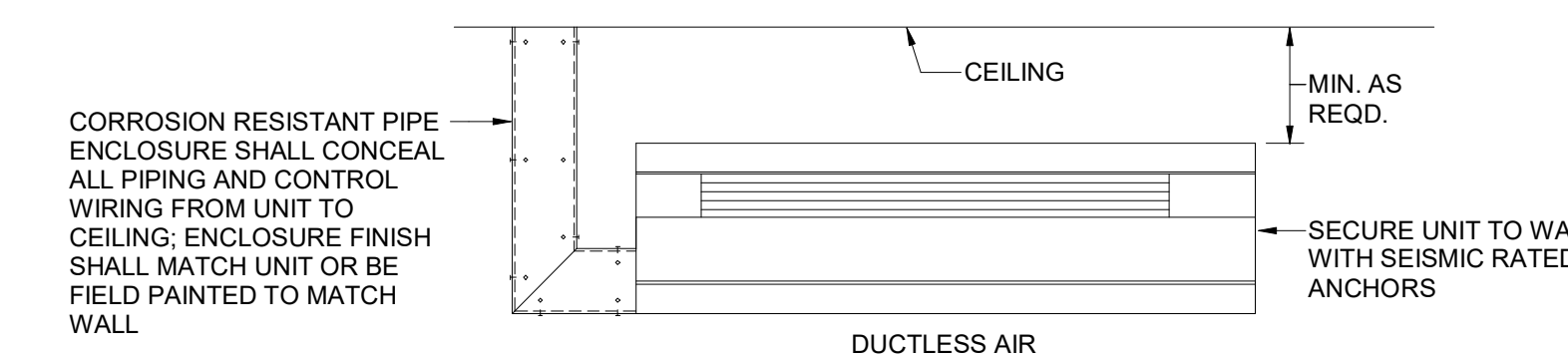
SHEET NO:

M101

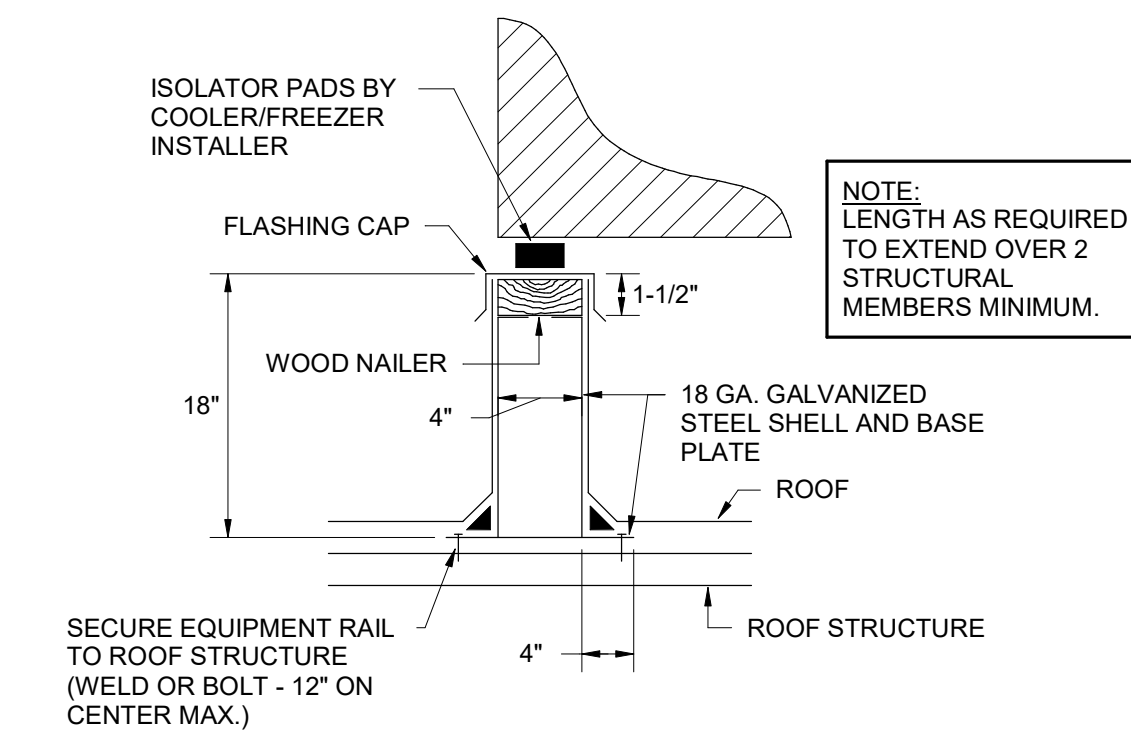
Swygert & Associates
 CONSULTING ENGINEERS
 DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
 Post Office Box 1166 Post Office Box 1166 Fax: (803) 791-6830
 Columbia, S.C. 29211 mail@swygert-associates.com

LEGEND

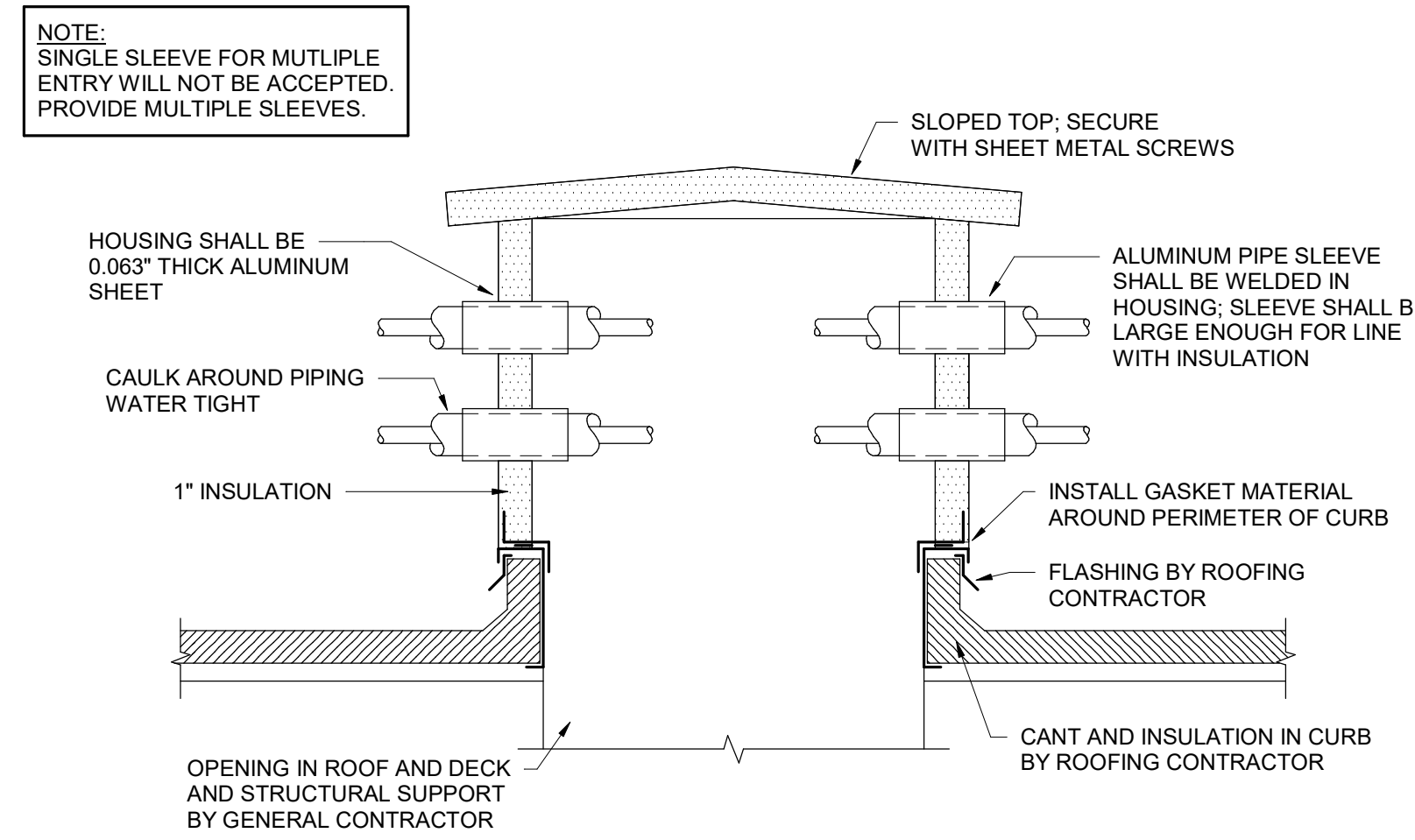
SYMBOL	DESCRIPTION
— R —	REFRIGERANT LINES
— D —	DRAIN LINE
— O —	PIPE TURNS TO, AWAY
⊕	THERMOSTAT
AFF	ABOVE FINISHED FLOOR



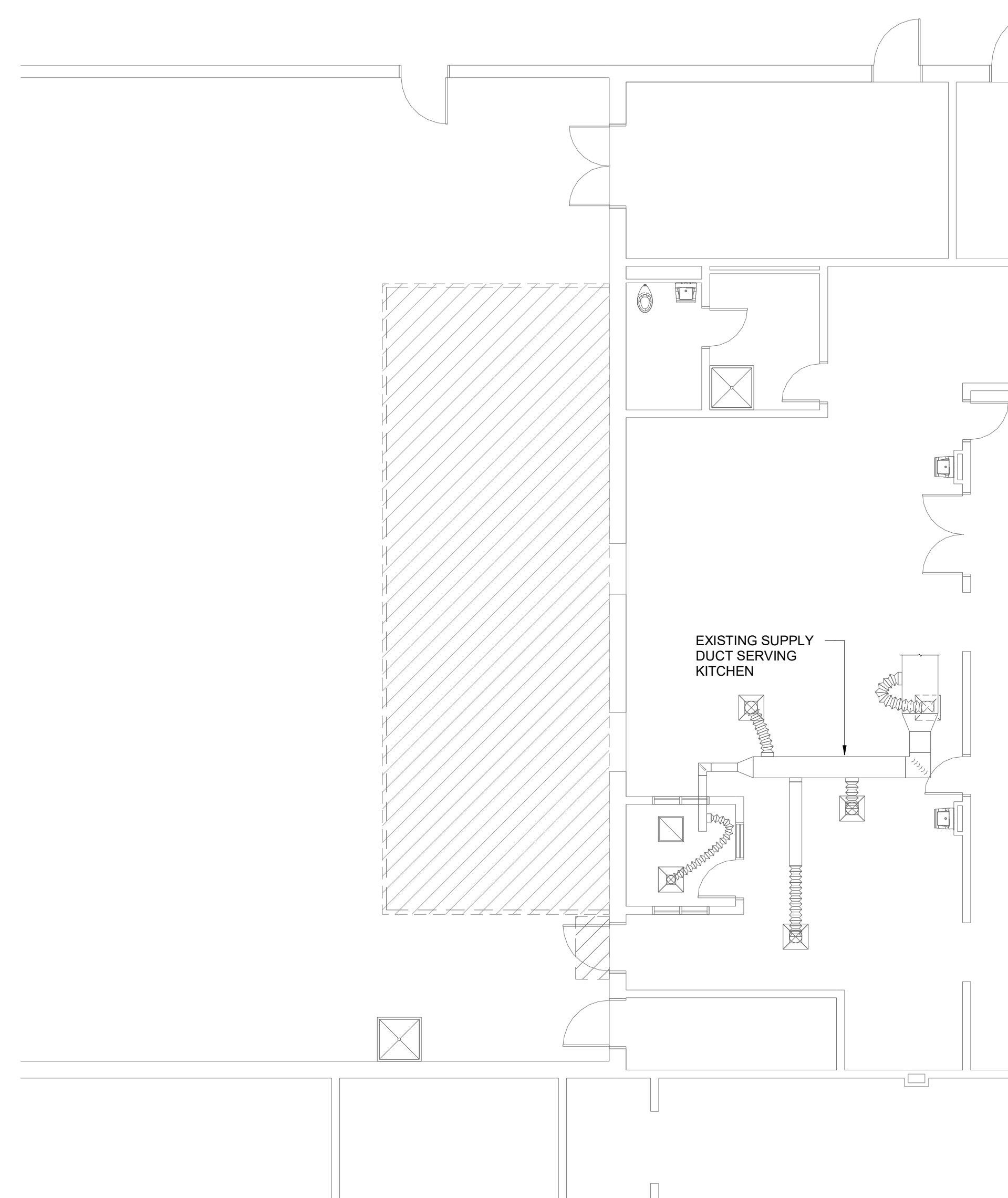
6 DUCTLESS AHU DETAIL
 M101 NO SCALE



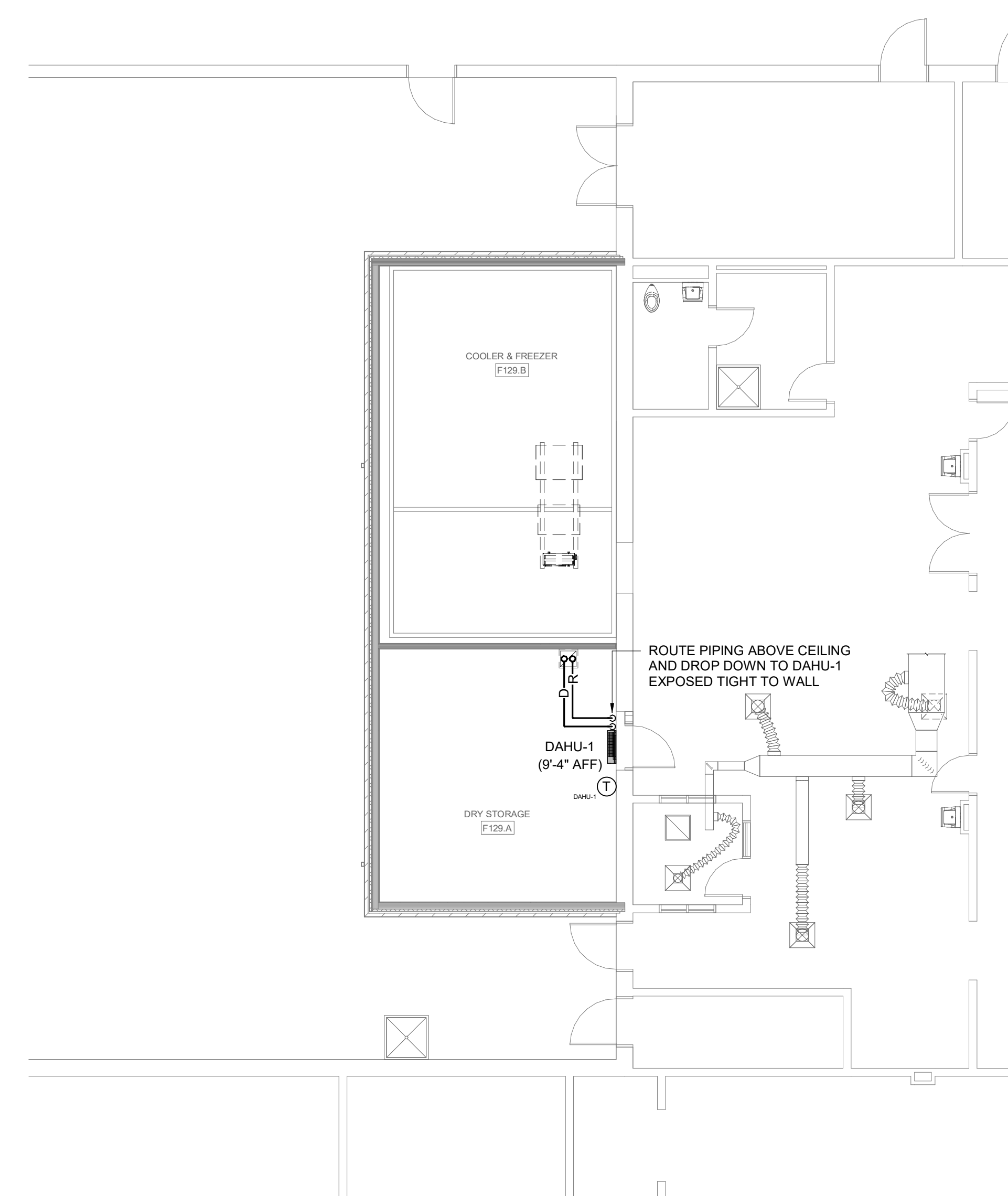
5 EQUIPMENT RAIL DETAIL
 M101 NO SCALE



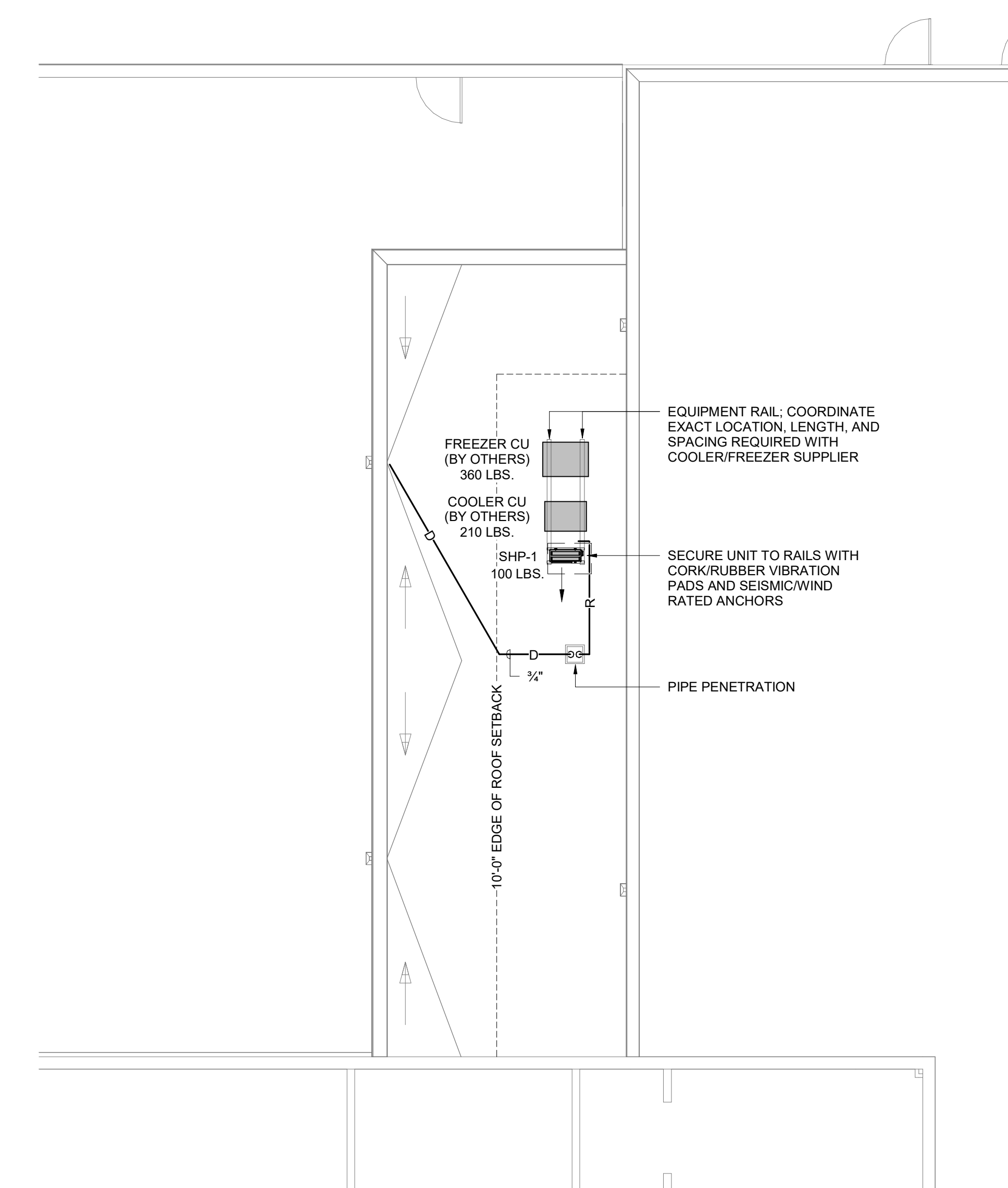
4 ROOF PIPE PENETRATION DETAIL
 M101 NO SCALE



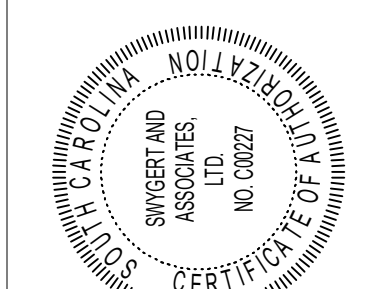
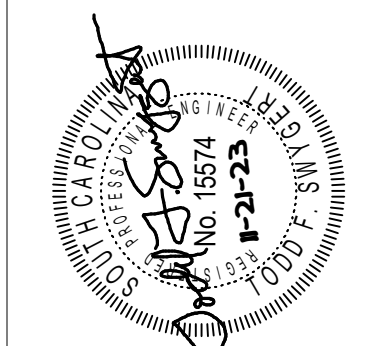
1 DEMOLITION FLOOR PLAN
 M101 1/8" = 1'-0"



2 FLOOR PLAN
 M101 1/8" = 1'-0"



3 ROOF PLAN
 M101 1/8" = 1'-0"



No	Description	Date

DRAWN BY: **DEM**
 CHECKED BY: **TFS**
 COMM NO: **22004**
 DATE: **11/21/23**
 SHEET TITLE: **FLOOR PLAN AND NOTES**

- GENERAL NOTES**
- SUBMIT DRAWINGS INDICATING EXACT LOCATION OF ALL SPRINKLERS FOR ARCHITECT'S REVIEW AND BRING ALL FIELD CONFLICTS AND REQUIRED ADJUSTMENTS TO THE ARCHITECT'S ATTENTION FOR VERIFICATION OF FINAL LOCATION OF ALL SPRINKLERS.
 - SPRINKLER DRAWINGS PROVIDED ARE TO ASSIST THE CONTRACTOR. SUCCESSFUL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE SYSTEM PER THESE PLANS AND SPECIFICATIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMISSION TO THE OFFICE OF THE STATE FIRE MARSHAL.
 - THE DESIGN TEAM, TO ENSURE COMPATIBILITY WITH THE BUILDING DESIGN INTENT, WILL CAREFULLY REVIEW SPRINKLER PLANS. CORRECTIONS WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - SPRINKLERS SHALL BE LOCATED A MINIMUM OF 6" AWAY FROM CEILING GRID IN ALL ACOUSTICAL CEILING TILES.
 - SPRINKLER PIPING SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS WITH LATERAL SWAY BRACING, LONGITUDINAL SWAY BRACING, AND FOUR-WAY BRACING AS REQUIRED BY NFPA AND THE INTERNATIONAL BUILDING CODES.
 - ALL PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 STEEL PIPING WITH ROLLED GROOVE OR THREADED FITTINGS.
 - ALL FIRE SPRINKLER PIPING SHALL BE HYDRAULICALLY SIZED BUT FLUID VELOCITIES SHALL NOT EXCEED 20 FT/SEC.
 - FLEXIBLE SPRINKLER DROPS SHALL BE BRAIDED HOSE DESIGN INSTALLED PER THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.
 - UPON APPROVAL BY THE STATE FIRE MARSHAL'S OFFICE, THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE THE OFFICE OF SCHOOL FACILITIES WITH A COPY OF THE APPROVED ABOVE GROUND SHOP DRAWINGS.

Fire Sprinkler System Specification Sheet
(Per 40-16-250)

Project Data

Project name: Springfield Middle School Cooler & Freezer Enclosure
 Location in South Carolina: Address (street # & name): 1711 Springfield Parkway City: Fort Mill County: York State Project #: N/A

Water Supply Information

Date test conducted: 02 / 02 / 2023 Static pressure (psig): 68 Residual pressure (psig): 42 Flow (gpm): 1060
 Distances of test gauges relative to the base of the riser: Horizontal (ft): 20' Vertical (elevation difference in ft): 4'
 Source of water supply: Municipal dead-end Municipal circulation Existing fire pump Other: Pipe Size (in.): 4"

Test data by/from: Name: Eric Warner Title: Fire Marshal
 Organization: Fort Mill Fire Department Phone: 803-402-9940

Fire pump: New Existing Rated Pressure (psig): N/A Churn Pressure (psig): N/A
 No Pump Rated Capacity (gpm): N/A Pressure @ 150% flow (psig): N/A

On-site water storage: Yes No New Existing Tank Other: N/A Capacity (gal): N/A

NFPA Hazard Classification
(Check appropriate boxes when necessary)

Area #	Hazard Class or Code Reference	Description of Hazard Protected (including occupancy use, group, and details of storage arrangement as applicable (including commodity class, rack arrangement/type, ceiling and storage height))
1	Ord. Haz. - Group 1	Storage areas

Design Parameters
(Check appropriate boxes when necessary)

Area #	System Type	Density (gpm ² /Area (ft ²)) or Other	Reference code section	Inside Hose (gpm)	Outside Hose (gpm)
1	Wet	0.15/1500		0	250

Seismic Design Data: S_w=0.258 Site Classification=C Seismic Design Category=B

Codes and Standards
(Check appropriate boxes when necessary)

Applicable Codes, Standards, & Editions (i.e. 2018 IBC, 2016 NFPA 13, etc.) for the Scope of Work on the Fire Sprinkler System
 2021 International Building Code, 2021 International Fire Code, NFPA 13 - 2019 Edition

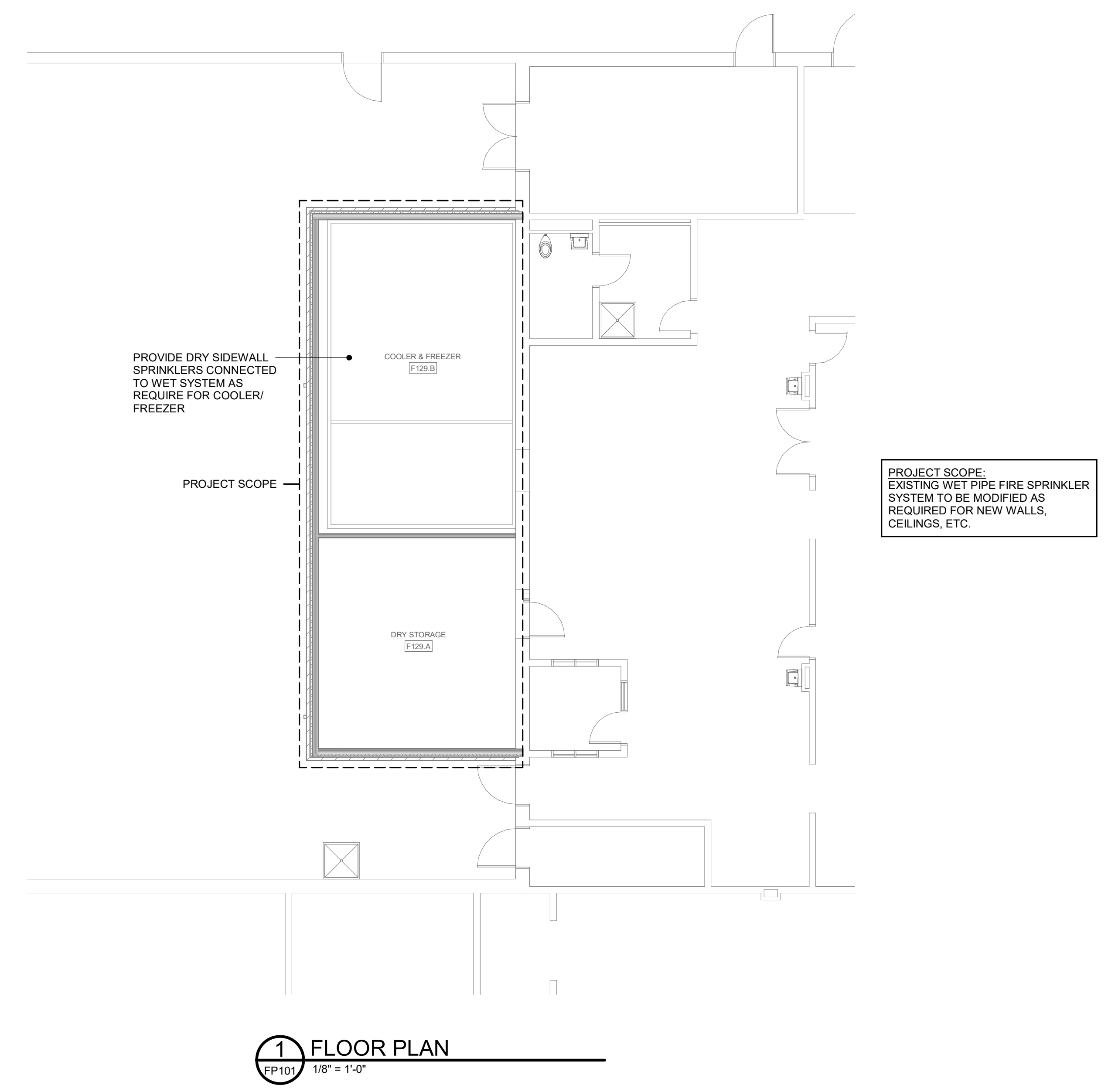
Scope of work (i.e. sprinkler system A.G. from 1'-0" A.F.F., U.G. from top to 5'-0" outside, etc.) and notes (attach continuation page when necessary):
 Modifications to existing system to accommodate new cooler/freezer and storage area.

Specifier's Information

Name: Todd F. Swygert, P.E.
 Engineering services provided through a firm: Yes No
 Firm name: Swygert & Associates, Ltd.
 Address: Post Office Box 11886
 City: Columbia
 State: South Carolina Zip: 29211
 Phone: 803-791-9300 ext 102 Fax: 803-791-0830
 E-mail: Todd@swygert-associates.com

Certificate of Authorization Professional Engineer's Seal

Revision No.: 1 Page 1 of 1 Signature: *Todd F. Swygert* Date: 3-14-2023
 Form Version: July 1, 2021



1 FLOOR PLAN
FP101 1/8" = 1'-0"

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ELECTRICAL SYMBOLS	
	TAMPER-RESISTANT DUPLEX RECEPTACLE (NEC 406.12), 20A, 120V, NEMA 5/20R, 16" AFF TO BOTTOM OF OUTLET BOX. - "CR" DENOTES CORROSION-RESISTANT RECEPTACLE. SEE 260500. - "WP" DENOTES WEATHER-RESISTANT RECEPTACLE [NEC, SECTION 406.9(A)] WITH EXTRA-DUTY RATED "IN-USE" WEATHERPROOF COVER PLATE, SEE 260500. - "N" DENOTES NON-TAMPER-RESISTANT RECEPTACLE.
	SAME, EXCEPT MOUNTED 3" TO BOTTOM OF OUTLET FROM COUNTER BACKSPLASH, OR 48" AFF TO TOP OF OUTLET, OR AS DETAILED ON DRAWINGS. SEE ELEVATION THIS SHEET.
	GFCI RECEPTACLE, MOUNTING HEIGHTS AS ABOVE, "WP" DENOTES WEATHER-RESISTANT RECEPTACLE [NEC, SECTION 406.9(A)] WITH WEATHERPROOF COVER PLATE, SEE SPECIFICATIONS.
	WALL OR CEILING MOUNTED JUNCTION BOX.
	NON-FUSED SAFETY SWITCH, 3 POLE (AMPS/VOLTS/NF/ENCLOSURE), SEE NOTES ON DRAWINGS.
	SAME, EXCEPT FUSED SAFETY SWITCH (AMPS/VOLTS/FUSE/ENCLOSURE).
	EQUIPMENT ELECTRICAL CONNECTION. SEE EQUIPMENT POWER NOTES ON DRAWINGS.
	MOTOR CONTROLLER, STARTER, OR VFD FURNISHED WITH EQUIPMENT, INSTALLED AND POWER WIRED BY ELECTRICAL CONTRACTOR.
	MOTOR, NUMERAL DENOTES HORSEPOWER. "T" FOR FRACTIONAL HORSEPOWER.
	MOTORIZED ZONE DAMPER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, POWER WIRED BY ELECTRICAL CONTRACTOR. PROVIDE 120V CIRCUIT AS NOTED ON THE DRAWINGS.
	PANELBOARD.
	BRANCH CIRCUIT WIRING RUN CONCEALED IN WALLS OR CEILING, 1#12G, 2#12 UNLESS NOTED OTHERWISE. ARROW DENOTES HOME RUN AND NUMERAL DENOTES CIRCUIT NUMBER. WHERE MORE THAN TWO CONDUCTORS ARE REQUIRED, SLASH MARKS INDICATE NUMBER OF #12 CONDUCTORS: - // - SHORT SLASH DENOTES HOT OR SWITCH LEG. - / - LONG SLASH DENOTES NEUTRAL. - / - "L" DENOTES GROUNDING WIRE.
	MULTIWIRED BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS. CONDUIT HOMERUNS TO PANELBOARDS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM.
	SAME, EXCEPT RUN UNDERGROUND OR UNDERFLOOR.
	SAME, EXCEPT RUN EXPOSED.
	COMMUNICATIONS CONDUIT (OR CONDUIT & WIRING WHERE SPECIFIED), SIZE AS NOTED. CONDUIT TO BE EMT RUN OVERHEAD CONCEALED IN WALLS OR CEILING UNLESS NOTED OTHERWISE.

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	LAMP	DESCRIPTION	MODEL	WATTS	VOLTS
A50		(1) LED	2x4 SPEC GRADE RECESSED LED FIXTURE WITH 0-10V DIMMING CAPABILITY AND THE FOLLOWING MINIMUM CRITERIA: 5000 LUMEN OUTPUT, 125LPW, 80CRI, 4000K.	WILLIAMS LT-24-L52/840-AF-ECLIPS-DIM-UNV OR EQUIVALENT OF LITHONIA 2BLT4 SERIES, METALUX CRUZE SERIES COLUMBIA LCAT SERIES, OR DAYBRITE EV09RD SERIES	38	MULTIPLE
A50ELC		(1) LED	SAME AS TYPE A50 EXCEPT FIXTURE TO BE WIRED VIA A UL924 EMERGENCY LIGHTING CONTROL DEVICE. SEE ELC NOTES.	ADJUST CATALOG NUMBERS TO ADD EMERGENCY LIGHTING CONTROL DEVICE.	38	MULTIPLE
C20		(1) LED	4-FOOT OUTDOOR RATED RECESSED LED FIXTURE WITH ALUMINUM GASKETED HOUSING AND THE FOLLOWING MINIMUM CRITERIA: 2000 LUMEN OUTPUT, 90LPW, 80CRI, 4000K.	LUMENWERX VAWETR-TMG-HLO-LED-80-500-40-4TT-UNV-D1-1-TT-TRL-0FAL AXIS WBRLED-500-80-40-5-4-C-UNV-DP-1-D OR ACCEPTABLE EQUIVALENT OF SELUX L125 SERIES OR ALW LITEPLANE SERIES	22	MULTIPLE

LIGHTING SYMBOLS	
	WALL OR CEILING MOUNTED FIXTURE, PROVIDE AS SCHEDULED.
	RECESSED FIXTURE, WIRE THRU GREENFIELD FROM OUTLET BOX ABOVE CEILING, PROVIDE AS SCHEDULED. "NL" DENOTES FIXTURE WIRED TO A SEPARATE 24/7 NIGHT LIGHT CIRCUIT.
	HALF-SHADED FIXTURE DENOTES EMERGENCY LIGHTING FIXTURE. PROVIDE EMERGENCY BALLASTS OR GENERATOR TRANSFER DEVICES WHERE SCHEDULED.
	WALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE.
	WALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE.
	WALL MOUNTED EMERGENCY LIGHTING FIXTURE. PROVIDE AS SCHEDULED.
	SINGLE POLE SWITCH, 20A, 120/277V, 48" AFF TO TOP OF OUTLET BOX. SUBSCRIPT DENOTES OUTLETS CONTROLLED. "WP" DENOTES SWITCH WITH LOCKABLE SHALLOW IN-USE STYLE WEATHERPROOF COVER PLATE, SEE 260500.
	CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. FURNISH, INSTALL, AND WIRE POWER PACK(S) PER THE MANUFACTURER'S INSTRUCTIONS. POWER PACKS NOT SHOWN ON DRAWINGS, BUT ARE REQUIRED, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. WATTSTOPPER DT-300 (1000SF) WITH BZ-150 POWER PACK(S), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. "WG" DENOTES WIRE GUARD.

FIRE ALARM SYMBOL SCHEDULE	
	CEILING MOUNTED FIRE ALARM HORN WITH STROBE LIGHT (HS). DEVICE TO BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.

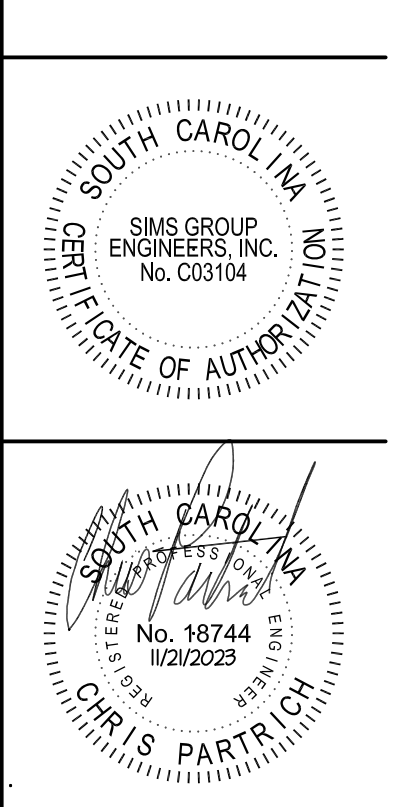
ELECTRICAL SUBMITTALS	
ELECTRICAL SHOP DRAWINGS SHALL BE SUBMITTED IN ONE COMPLETE PACKAGE CONTAINING ALL ITEMS REQUIRED BY THE ELECTRICAL DRAWINGS AND THE DIVISION 26-28 SPECIFICATIONS. PARTIAL SHOP DRAWINGS SUBMITTED MAY BE REJECTED BY THE ARCHITECT-ENGINEER. REFER TO SECTION 260510 OF THE ELECTRICAL SPECIFICATIONS FOR REQUIRED SUBMITTAL FORMAT AND FOR ADDITIONAL REQUIREMENTS.	

ABBREVIATIONS			
A	AMPERES	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
AHJ	AUTHORITY HAVING JURISDICTION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CU	COPPER	PH,Ø	PHASE
EC	EMPTY CONDUIT	RCPT	RECEPTACLE
EQPT	EQUIPMENT	RE:	REFER TO
EXST	EXISTING	TYP	TYPICAL
FWE	FURNISHED WITH EQUIPMENT	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
IAW	IN ACCORDANCE WITH	W	WIRE OR WATTS
KVA	KILOVOLTAMPERES	WP	WEATHERPROOF
KW	KILOWATTS		

ELECTRICAL DEMOLITION NOTES	
A.	PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL SURVEY THE EXISTING BUILDING AND MAKE NOTE OF ANY ADDITIONAL DEMOLITION AND/OR ANY ADDITIONAL REMOVAL AND RELOCATION WHICH MAY BE REQUIRED IN ORDER TO ACCOMPLISH RENOVATIONS INDICATED IN CONTRACT DOCUMENTS. NO CHANGE ORDER WILL BE ISSUED FOR ADDITIONAL WORK REQUIRED FOR DEMOLITION, REMOVAL, OR RELOCATION WORK NOT INDICATED ON THESE DRAWINGS BUT NECESSARY TO COMPLETE WORK.
B.	IN ALL AREAS WHERE EXISTING WALLS ARE BEING REMOVED, NEW WALLS ARE BEING ADDED, AND WHERE OTHER DEMOLITION WORK IS OCCURRING, REMOVE ALL EXISTING RECEPTACLES, LIGHTS, AND OTHER ELECTRICAL DEVICES, AND ALL WIRING AND CONDUIT NOT BEING REUSED. EXISTING CONDUIT RUN CONCEALED IN EXISTING WALLS NOT BEING REMOVED AND/OR REPLACED MAY BE ABANDONED. ALL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECT AND WITH ALL OTHER TRADES TO AVOID CONFLICTS. REFER TO THE ARCHITECTURAL DEMOLITION PLAN.
C.	NO EXISTING ELECTRICAL MATERIALS, EQUIPMENT, WIRING, OR CONDUIT BEING REMOVED MAY BE REUSED ON THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE DRAWINGS. ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT NOT BEING REUSED SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTES.
D.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF ANY AND ALL EXISTING ELECTRICAL AND TELEPHONE SERVICES FEEDING THE BUILDING WITH THE APPROPRIATE UTILITIES. ALL ASSOCIATED MATERIALS AND EQUIPMENT NOT BEING REUSED OR NOT BEING REMOVED BY THE UTILITIES SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR. PROVIDE NEW SERVICES AS INDICATED ON THE DRAWINGS.

SCOPE OF WORK	
THE WORK OF THIS SECTION SHALL PROVIDE COMPLETE ELECTRICAL SYSTEMS WHICH SHALL INCLUDE THE PROVIDING OF ALL CONDUCTORS, RACEWAYS, FITTINGS, CIRCUIT PROTECTIVE DEVICES, LIGHT FIXTURES, BOXES, SUPPORTS, AND ALL ASSOCIATED APPURTENANCES AND MISCELLANEOUS EQUIPMENT NECESSARY, ALL OF WHICH SHALL BE COMPLETELY CONNECTED, TESTED, ADJUSTED AND LEFT IN PROPER OPERATING CONDITION. THE ELECTRICAL SYSTEM TO BE PROVIDED SHALL INCLUDE SERVICE AND DISTRIBUTION FACILITIES POWER FOR MOTOR OPERATED EQUIPMENT, LIGHTING SYSTEMS, AND ALL OUTLETS AS COVERED HEREINAFTER.	
GENERAL NOTES:	
<ol style="list-style-type: none"> ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE (NEC), THE 2018 INTERNATIONAL BUILDING CODE (IBC), AND ANY LOCAL CODES, LAWS AND ORDINANCES WHICH MAY APPLY. WHERE DIFFERENCES EXIST BETWEEN THE CODES, THE STRICTER CODE SHALL APPLY. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR REGARDLESS OF USE. THE CONTRACTOR FOR THE WORK UNDER THIS SECTION SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND LICENSURES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENT AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST. TYPE MC CABLE MAY NOT BE USED ON THIS PROJECT EXCEPT THAT MANUFACTURER SUPPLIED METAL CLAD CABLE SHALL BE PERMITTED FOR LIGHT FIXTURE WHIPS (#18 AWG) PROVIDED THEY INCLUDE A GROUND WIRE AND DO NOT EXCEED 6' IN LENGTH. ALL LOW VOLTAGE WIRING FOR OCCUPANCY SENSOR APPLICATIONS SHALL BE RUN IN METAL CONDUIT, EXCEPT LOW VOLTAGE WIRING FOR OCCUPANCY SENSORS MAY BE RUN WITHOUT CONDUIT ABOVE ACCESSIBLE ACOUSTICAL GRID CEILINGS PROVIDED THE WIRING IS PLENUM RATED AND IS INSTALLED AND SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 725.24 AND 300.4(D). UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS: #10 AWG SHALL BE USED FOR HOMERUNS LONGER THAN 75 FEET #12 AWG SHALL BE USED FOR HOMERUNS 75 FEET OR SHORTER MULTIWIRED BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS. MOUNT RECEPTACLES 16" AFF UNLESS OTHERWISE NOTED. RECEPTACLES TO BE TAMPER-RESISTANT TYPE UNLESS NOTED OTHERWISE. ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE BY THE SAME MANUFACTURER. COVER PLATES SHALL BE JUMBO STAINLESS STEEL DEVICE COLOR TO BE SELECTED BY THE ARCHITECT UNLESS STATED WITH THE DEVICE SYMBOL. ELECTRICAL METALLIC TUBING AND RIGID GALVANIZED STEEL CONDUIT SHALL BE THE ONLY TYPES OF CONDUIT INSTALLED WITHIN THE BUILDING. PVC IS PERMITTED UNDERGROUND. BRANCH CIRCUITS SHALL BE RUN CONCEALED WHERE PRACTICAL. BRANCH CIRCUITS RUN EXPOSED TO WEATHER ON EXTERIOR WALLS OR ON ROOFS SHALL BE RUN IN GRC OR IMC WITH SCREWED FITTINGS. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILINGS SHALL BE RUN IN EMT, GRC, OR IMC. BRANCH CIRCUITS RUN EXPOSED IN DRY, FINISHED SPACES SHALL BE RUN IN WIREMOLD SURFACE METAL RACEWAY. BRANCH CIRCUITS RUN EXPOSED IN DAMP LOCATIONS, UNFINISHED SPACES (ATTICS), AND UNOCCUPIED SPACES (STORAGE ROOM, EQUIPMENT ROOMS, JANITOR'S CLOSET, ETC.) MAY BE RUN IN EMT IN LIEU OF WIREMOLD. CONDUIT HOMERUNS TO PANELBOARDS AND CONDUITS SHOWN WITH MULTIPLE CIRCUITS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM. INTERIOR CONDUIT HOMERUNS TO PANELBOARDS SHALL BE RUN OVERHEAD IN EMT, GRC, OR IMC UNLESS NOTED OTHERWISE ON THE DRAWINGS. FIRE ALARM SYSTEM CONDUITS AND COMMUNICATIONS SYSTEM CONDUITS TO BE EMT RUN OVERHEAD CONCEALED IN WALLS OR CEILING UNLESS NOTED OTHERWISE. ALL FIRE RATED WALLS, FLOORS, ETC WHICH HAVE A CONDUIT OR OTHER ELECTRICAL PENETRATION SHALL BE SEALED TO EQUAL THE RATING OF THE WALL, FLOOR, ETC. THAT IS PENETRATED. CONTRACTOR SHALL USE A U.L. RATED AND LISTED ASSEMBLY FOR THE SEALING MATERIAL AND METHOD. COORDINATE MANUFACTURER WITH THE GENERAL CONTRACTOR SO THAT ALL TRADES ON THE PROJECT USE THE SAME MANUFACTURER. THROUGH PENETRATIONS OF CONDUITS AND CABLES OF FIRE RESISTANCE RATED WALLS MUST COMPLY WITH SECTION 714.4.1.1 OF THE IBC. THROUGH PENETRATIONS OF FIRE RESISTANCE CEILING ASSEMBLIES MUST COMPLY WITH SECTION 714.4.1.1 OF THE IBC. ALL OUTLET BOXES 4"x4" OR SMALLER LOCATED ON OPPOSITE SIDES OF A RATED WALL SHALL HAVE A MINIMUM OF 24" HORIZONTAL SPACING OR SHALL BE PROTECTED WITH LISTED PUTTY PADS. ALL OUTLET BOXES LARGER THAN 4"x4" (COMMUNICATIONS OUTLETS, ETC.) LOCATED IN RATED WALLS SHALL BE PROTECTED WITH LISTED PUTTY PADS. COMMUNICATIONS OUTLET BOXES TO BE 4"x4"x2 1/8" FOR CONDUIT SIZES 1" AND SMALLER, AND 4 1/2"x4 1/2"x2 1/8" FOR 1 1/2" CONDUIT. METALLIC WATER PIPING SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM (SEE NEC 250-104). REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, CABINETS, ETC. CONCEAL ALL CONDUIT AND FITTINGS EXCEPT WHERE THE ARCHITECT GRANTS SPECIFIC PERMISSION. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE. PROVIDE ONE COMPLETE SET OF ELECTRICAL DRAWINGS MARKED UP FOR RECORD DRAWINGS. SHOW ALL LOCATIONS OF EQUIPMENT AND MATERIALS. INSTALL ALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS. IDENTIFY MAJOR EQUIPMENT INSTALLED WITH LAMICOR LABELS (SEE SPECS). PROVIDE FLASH HAZARD SIGN AT ALL ELECTRICAL PANELS. PROVIDE A TYPED DIRECTORY IN ALL PANEL BOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ALL RACEWAYS, FIXTURES, WIRING, DEVICES, AND EQUIPMENT RENDERED USELESS BY THIS WORK SHALL BE REMOVED AND DELIVERED TO THE OWNER'S STORAGE FACILITY AS DIRECTED. ANY MATERIAL NOT WANTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL HIS WORK. FINISH PATCHING AND PAINTING WILL BE DONE BY THE GENERAL CONTRACTOR. PRIOR TO DIGGING ANY TRENCHES, NOTIFY ALL UTILITIES AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES. ANY DAMAGES DONE TO UNDERGROUND UTILITIES OR PIPING BY THIS CONTRACTOR WILL BE REPAIRED BY THE OWNER OF THE LINE IN A SATISFACTORY MANNER. THIS CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS. CONDUITS TO BE RUN UNDER WALKWAYS AND PAVINGS SHALL BE INSTALLED BY JACKING OR BORING, UNLESS NOTED. DO NOT CUT WALKWAYS OR PAVEMENTS, UNLESS ACCEPTABLE TO THE ENGINEER. ALLOWED CUTS IN PAVEMENT OR CONCRETE SHALL BE MADE USING A PAVEMENT SAW, AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE. WHERE DISAGREEMENTS EXISTS ON THE DESIGN DOCUMENTS, THE ITEM OR ARRANGEMENTS OF BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID. ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, AND FIELD CONDITIONS SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO COMMENCING WORK. ALL AGREEMENTS SHALL BE VERIFIED IN WRITING. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO INSURE PROPER LOCATION OF OUTLETS AND EQUIPMENT CONNECTIONS, AND TO MINIMIZE CONFLICTS WITH STRUCTURAL MEMBERS, DUCT WORK, PIPING, ETC. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS SHALL BE CORRECTED AS DIRECTED BY THE ARCHITECT-ENGINEER AT NO ADDITIONAL COST TO THE OWNER. 	

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BID DOCUMENTS	
Description	Date
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DRAWN BY: **JWB**
CHECKED BY: **CLP**
COMM NO: **22004**
DATE: **11/21/23**
SHEET TITLE: **ELECTRICAL SYMBOLS, AND NOTES**

BID DOCUMENTS | C23001

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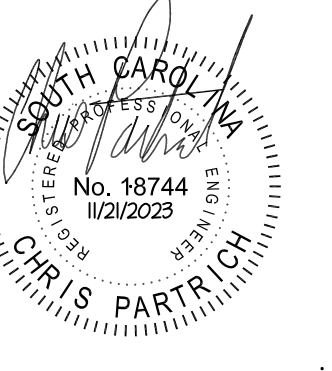
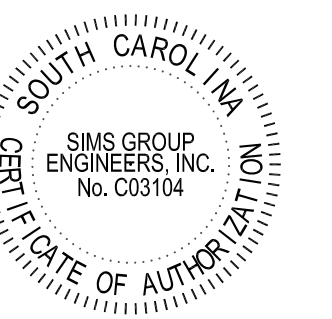
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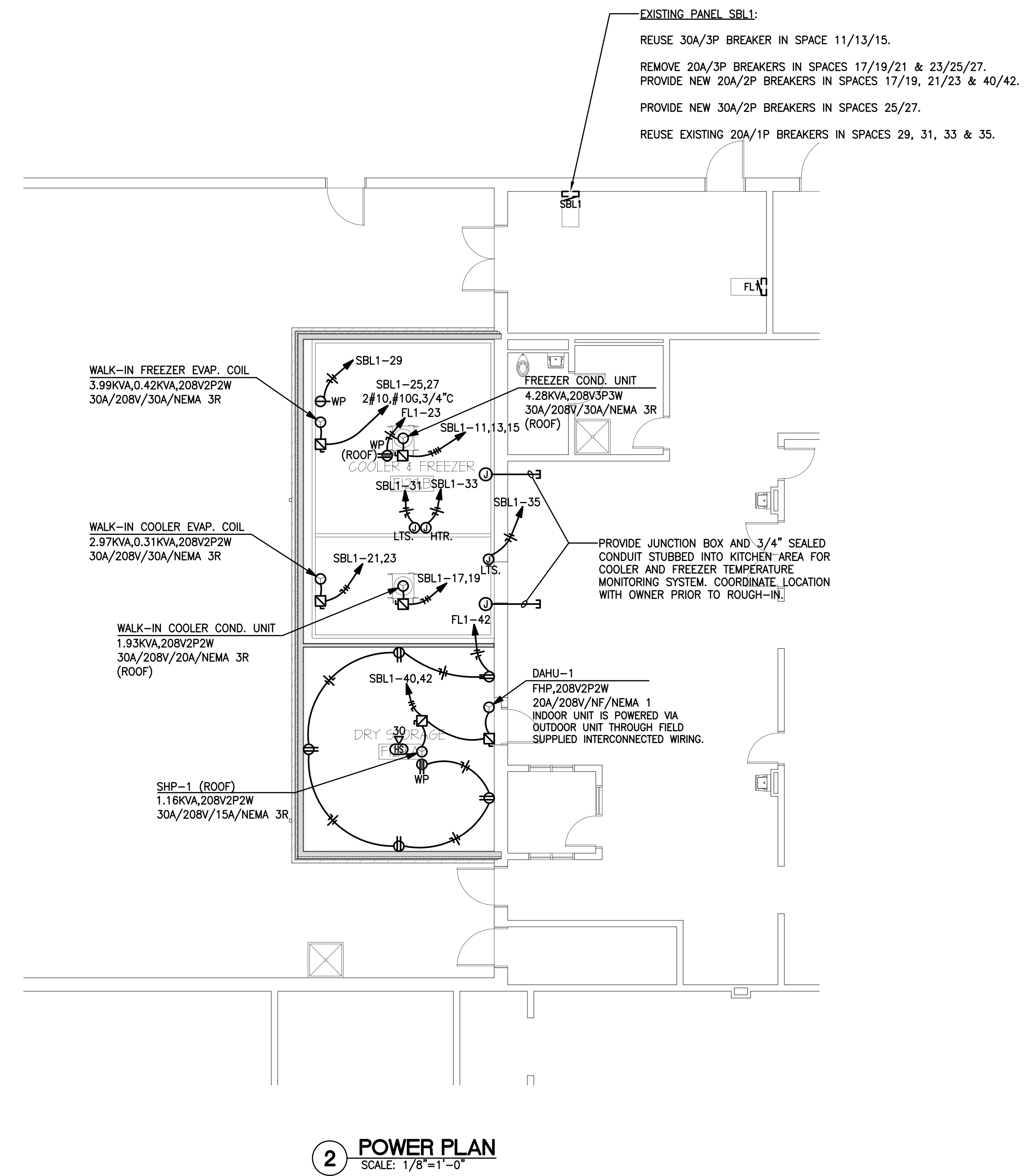
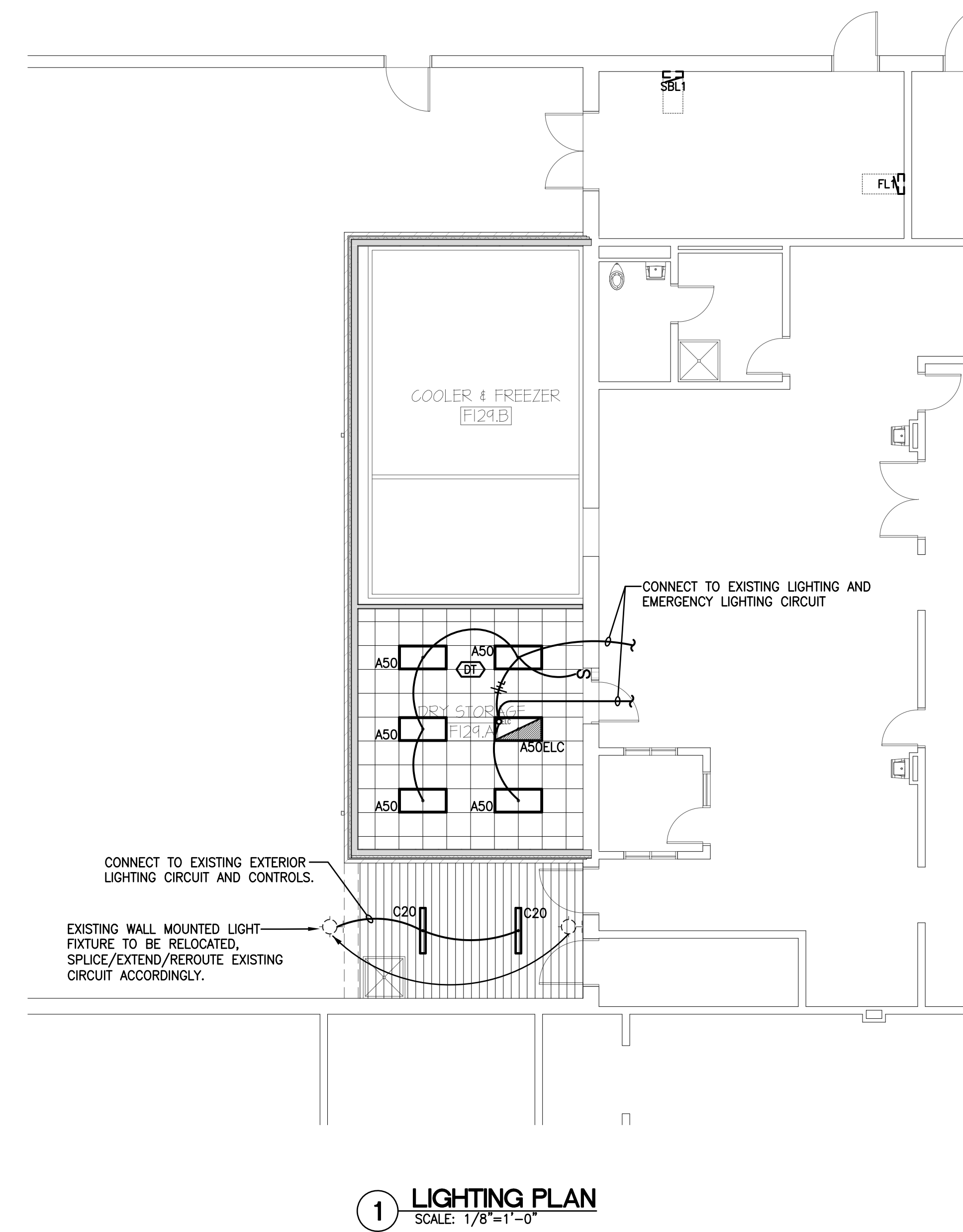
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