

New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:

Schematic Design/
Design Development



Newport Primary School

1102 York Street
Newport, Kentucky 41071
Newport Independent Board of Education
Mr. Tony Watts, Superintendent

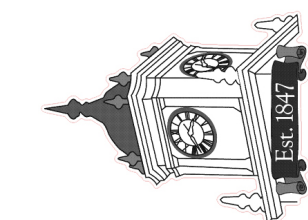


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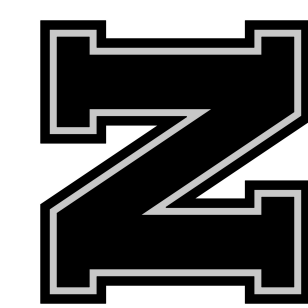
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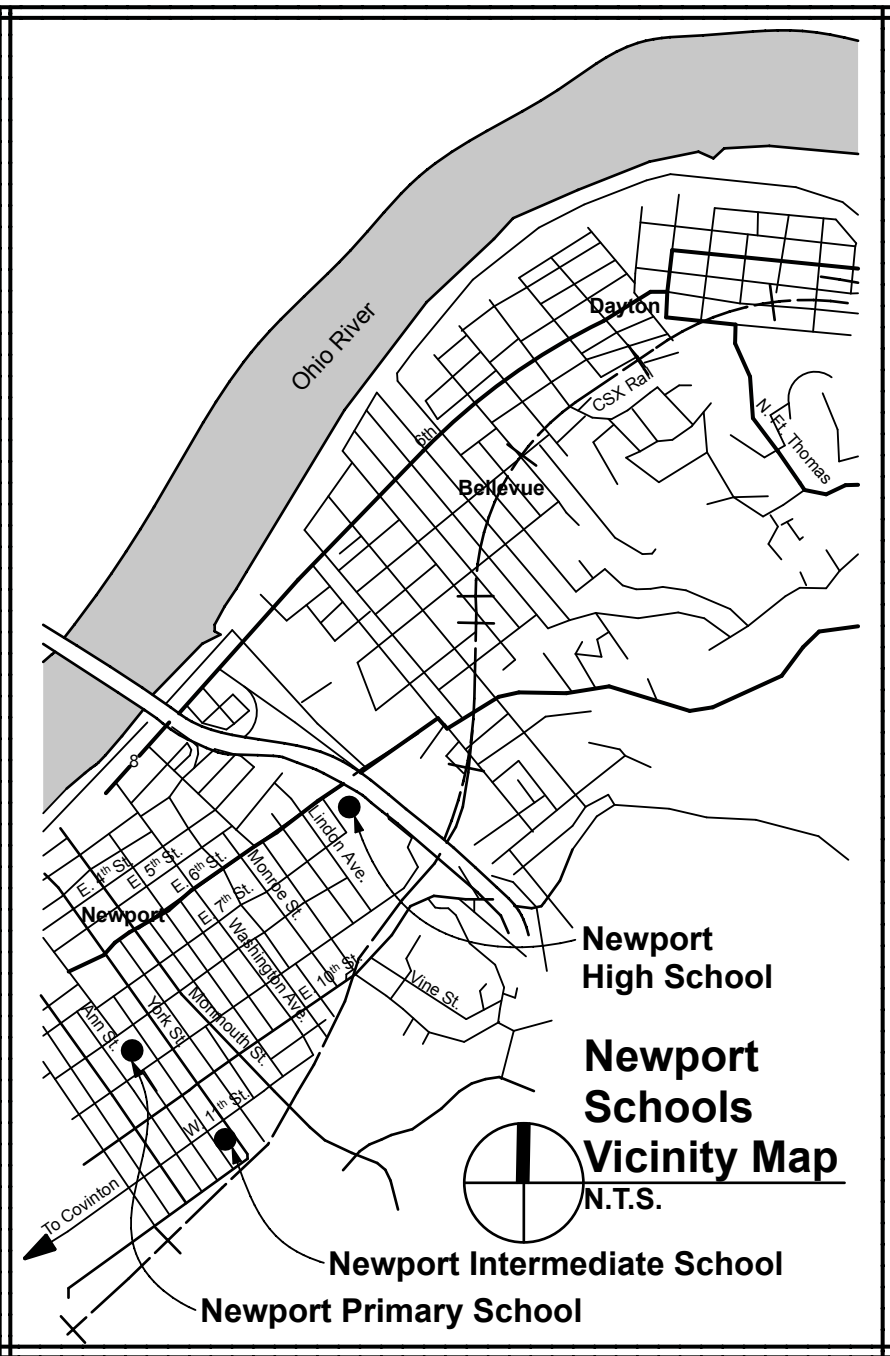
SHEET TITLE

TITLE
SHEET

BG #
22-056
REH #
149-520 (NCO)
DATE
10/27/2021

0-TS

Vicinity Map



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Code Notes

0-TS Title Sheet, General Notes, Vicinity Map, Code Notes, Sheet Index

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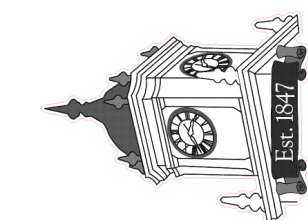
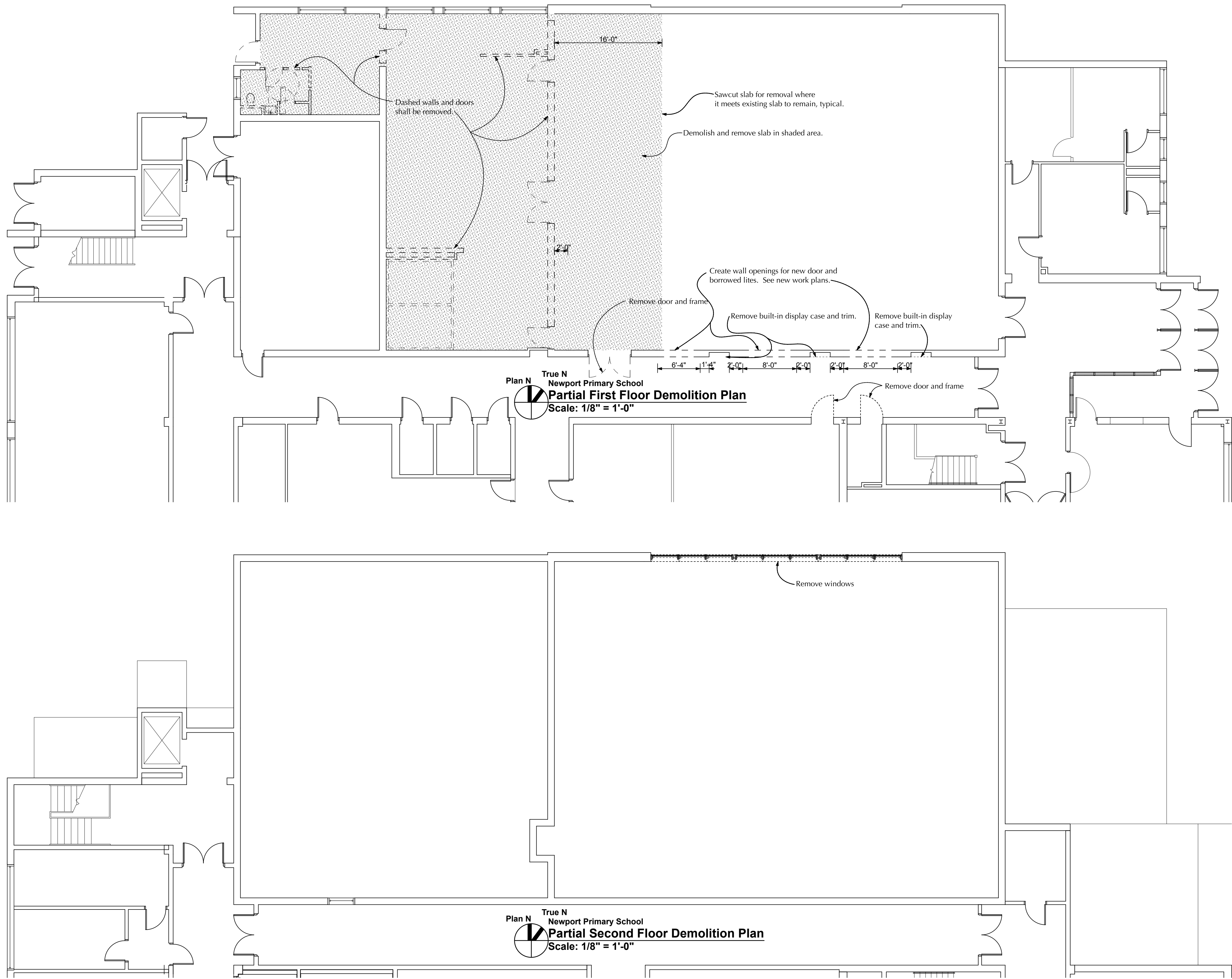
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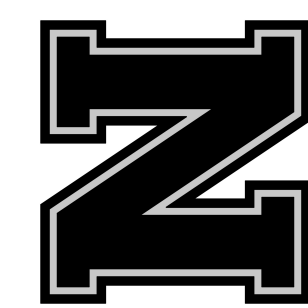
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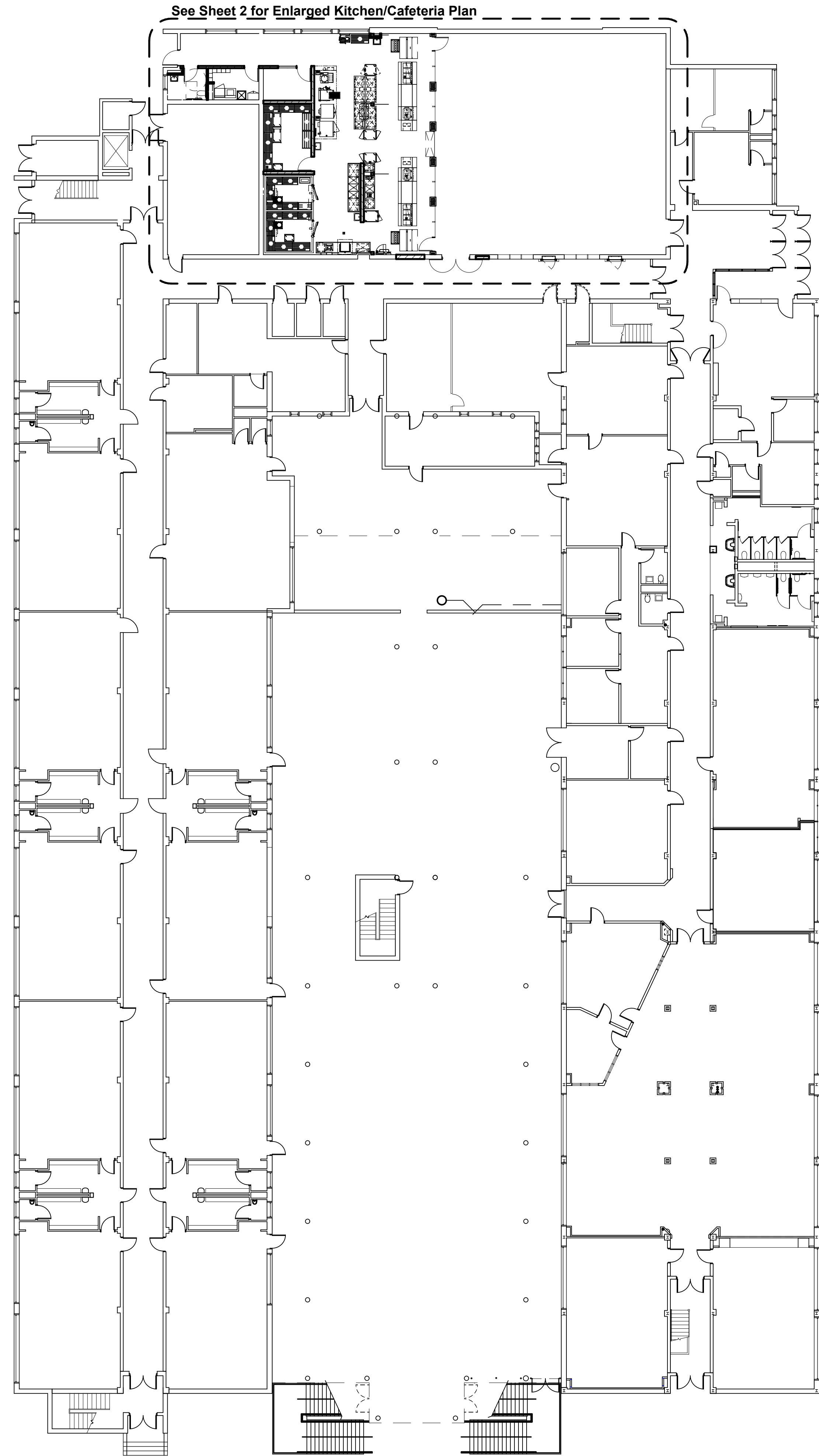
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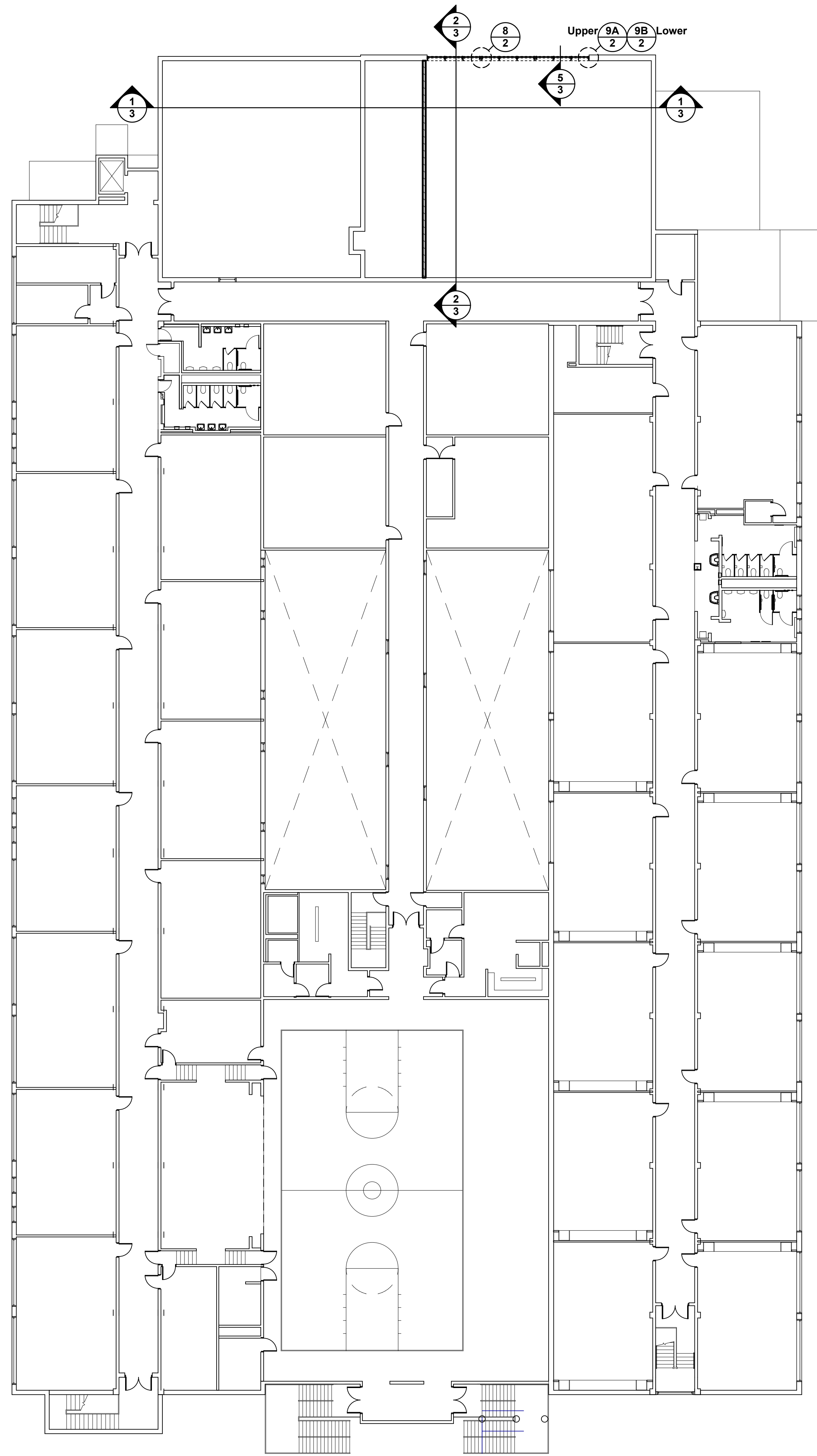
D1

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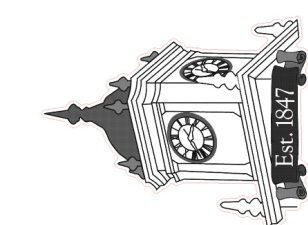
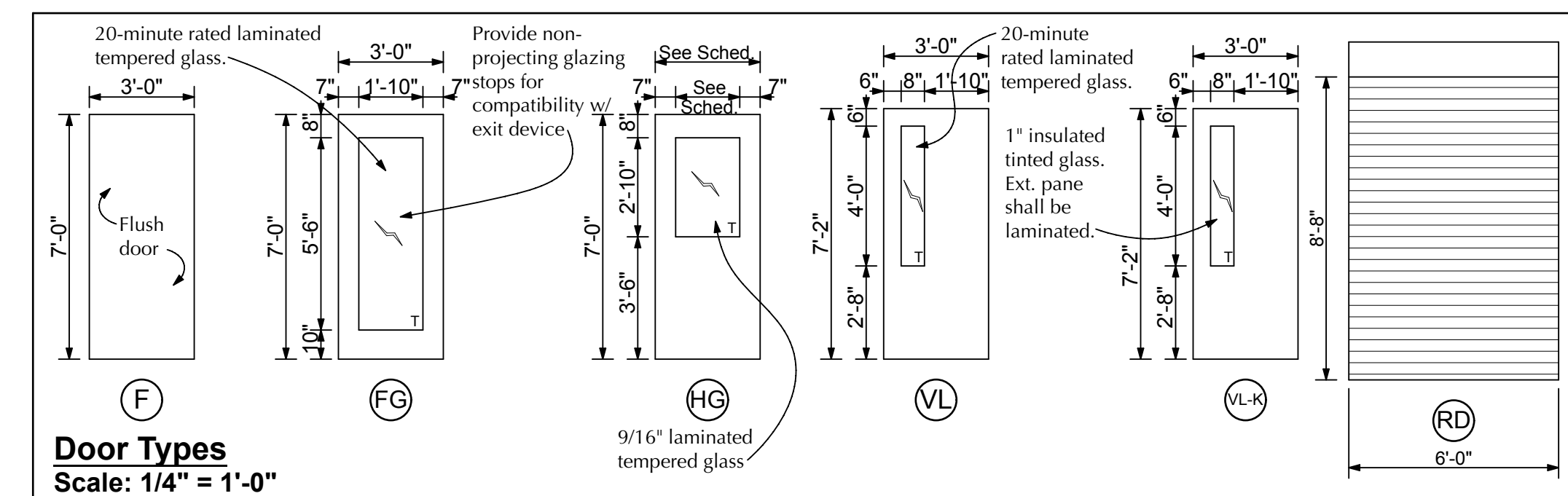
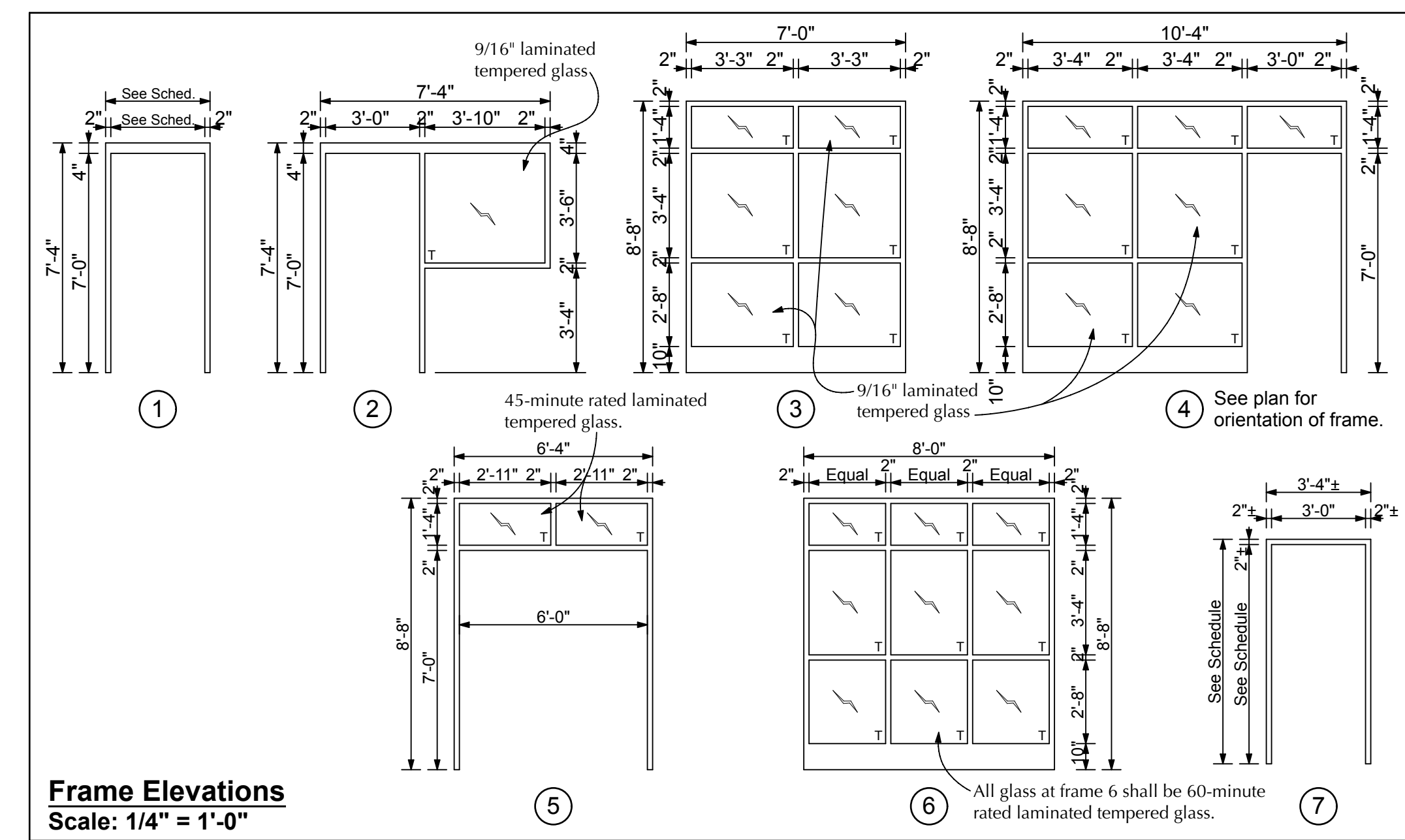
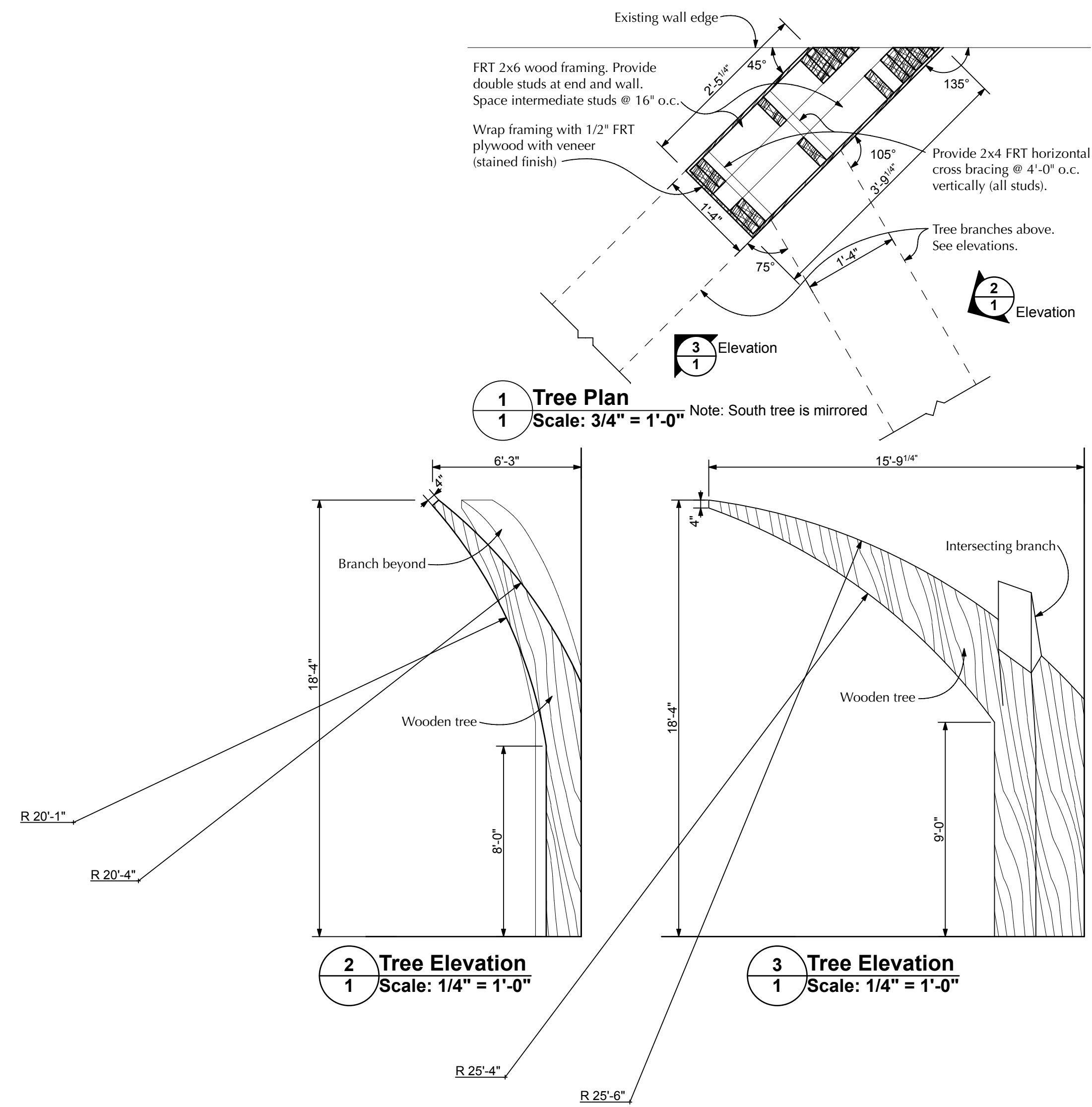
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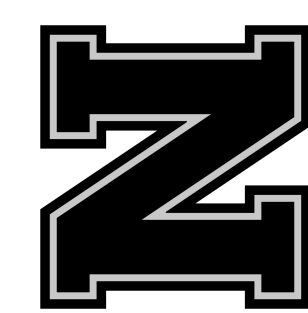
Plan N True N
Newport Primary School
First Floor Plan
Scale: 1/16" = 1'-0"



Plan N True N
Newport Primary School
Second Floor Plan
Scale: 1/16" = 1'-0"



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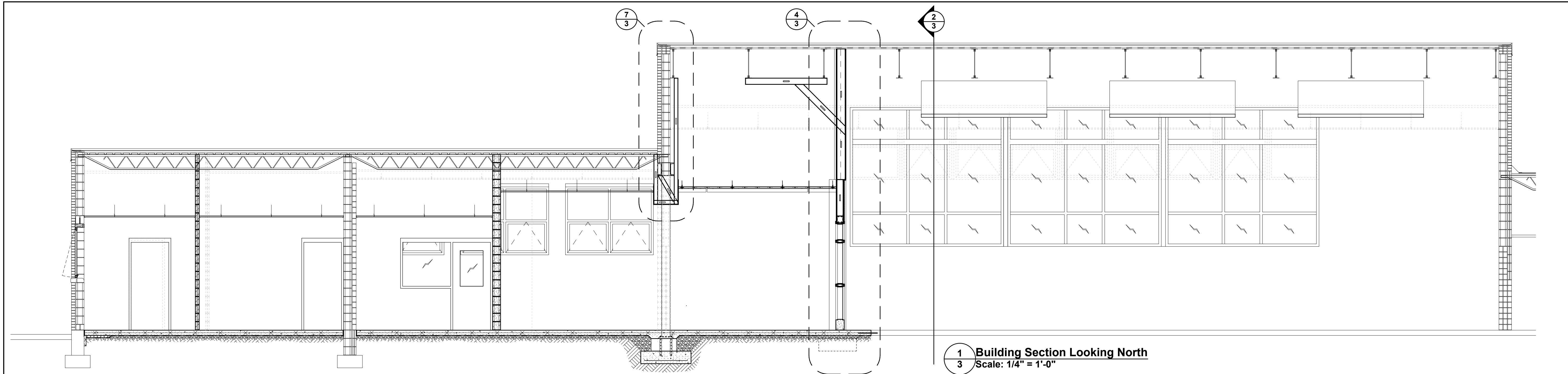


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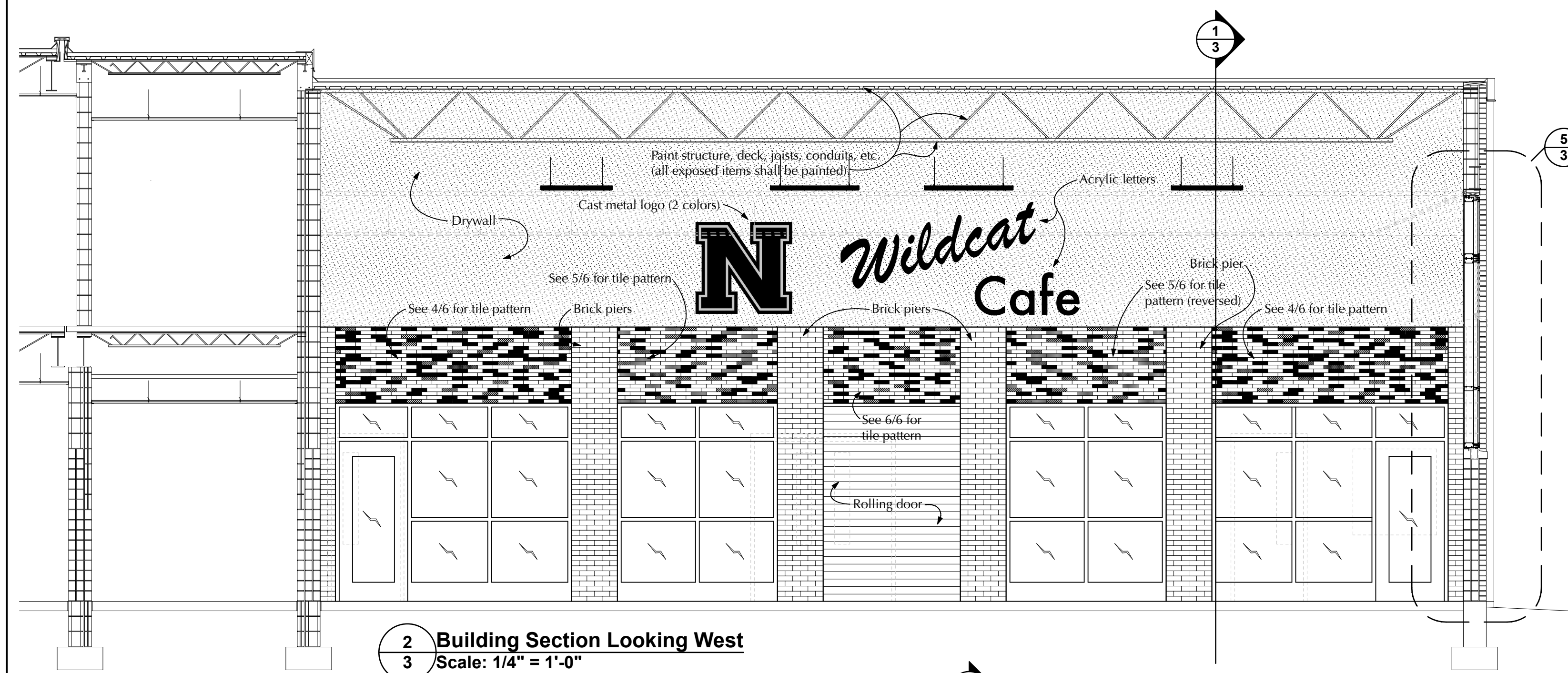
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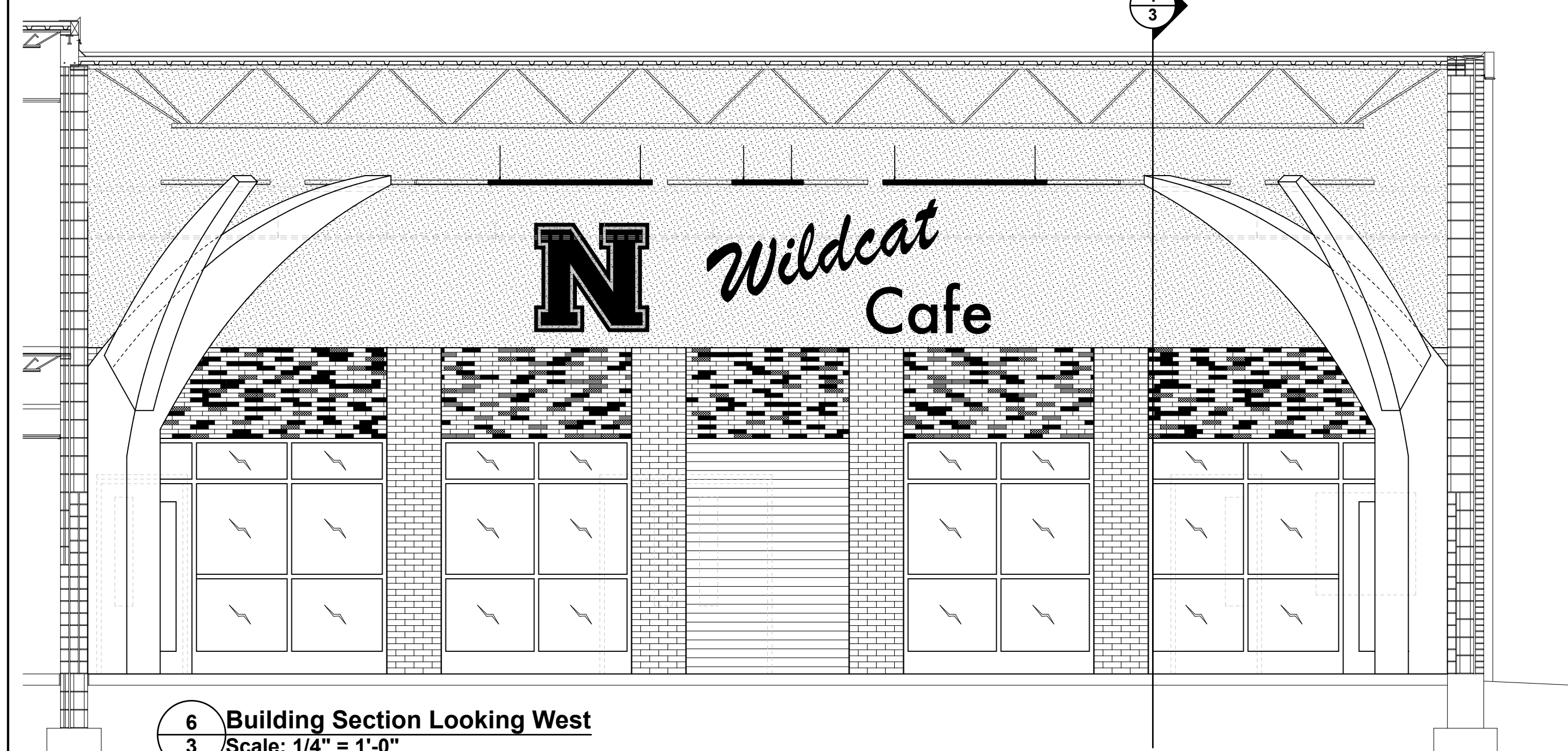
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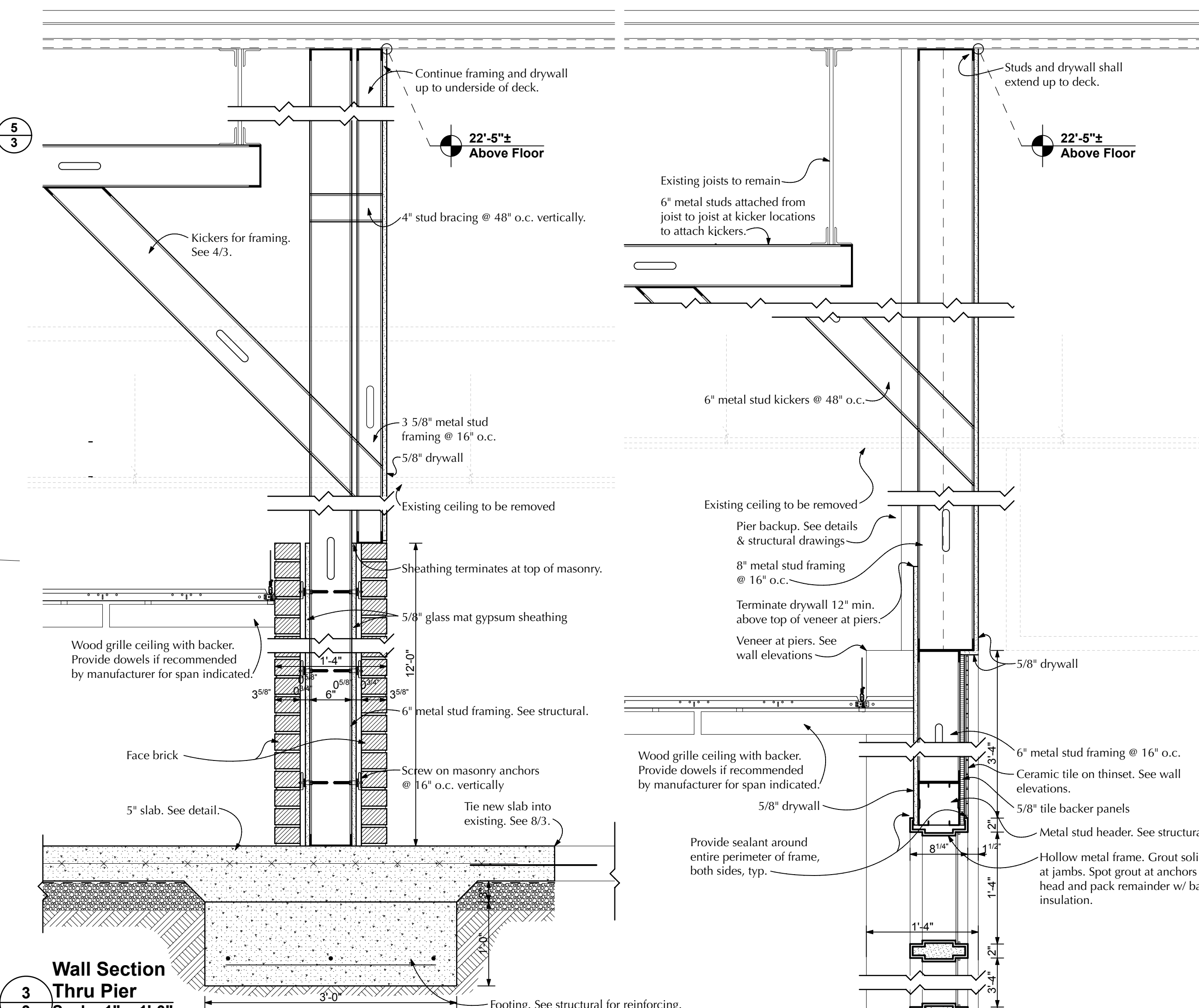
1 Building Section Looking North
Scale: 1/4" = 1'-0"



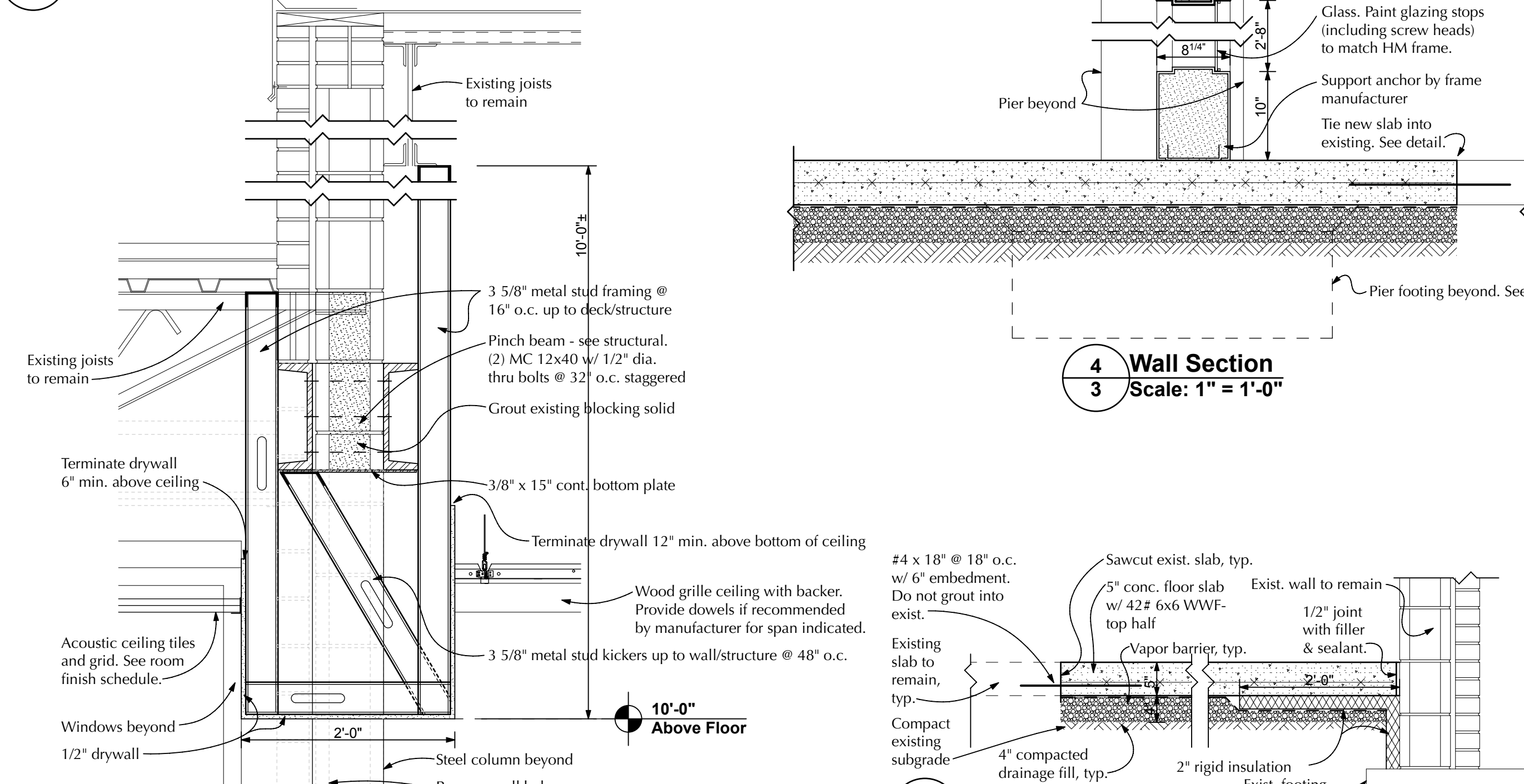
2 Building Section Looking West
Scale: 1/4" = 1'-0"



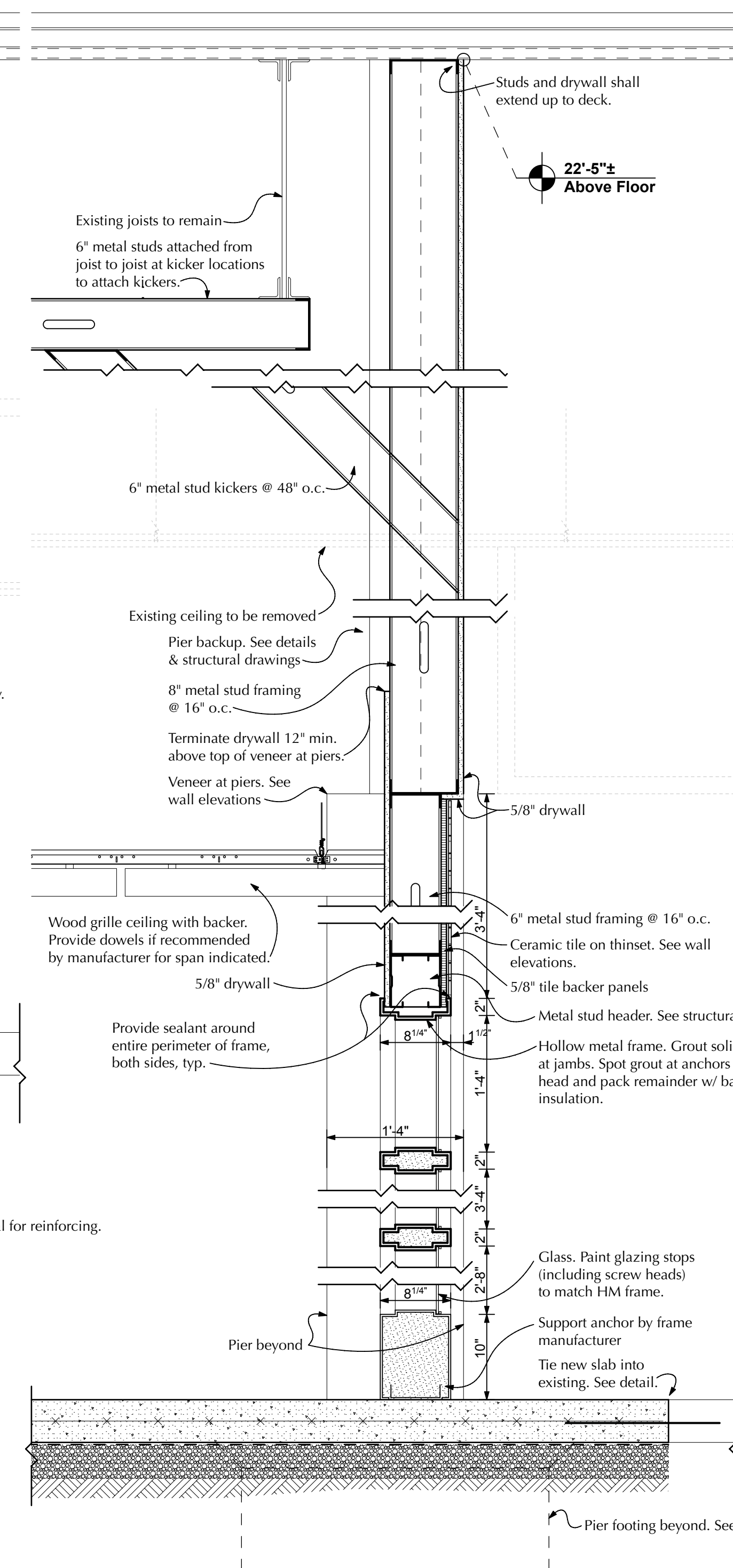
6 Building Section Looking West
Scale: 1/4" = 1'-0"



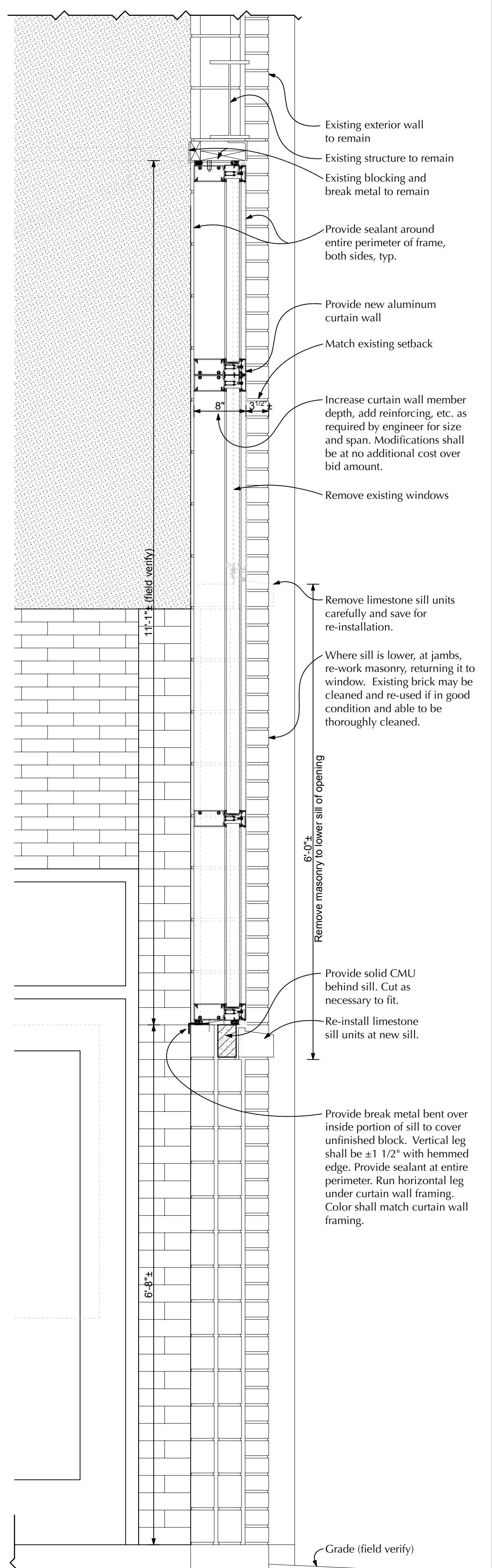
3 Wall Section Thru Pier
Scale: 1" = 1'-0"



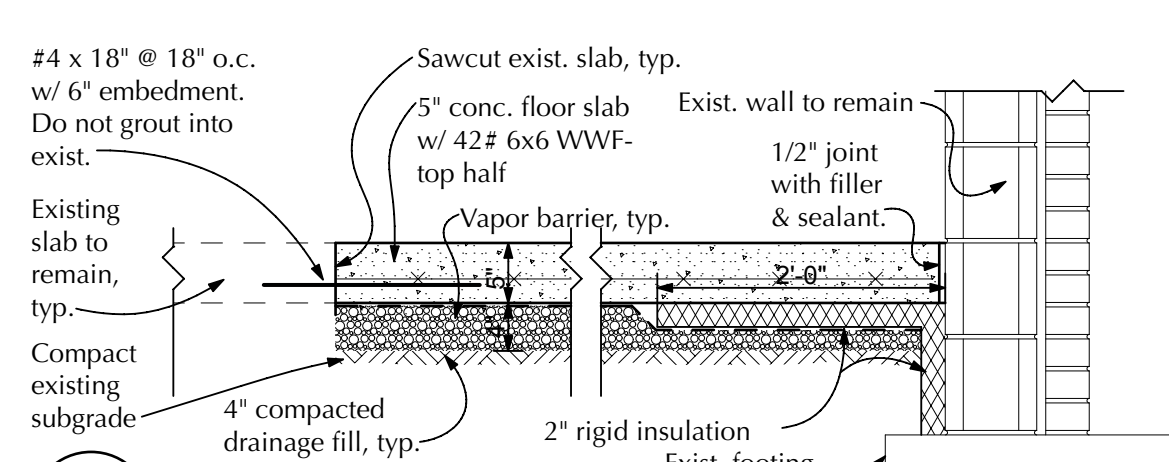
7 Section at Pinch Beam
Scale: 1" = 1'-0"



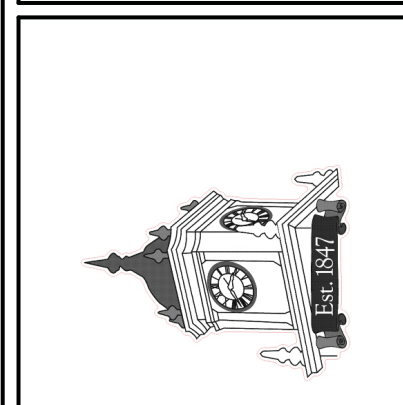
4 Wall Section
Scale: 1" = 1'-0"

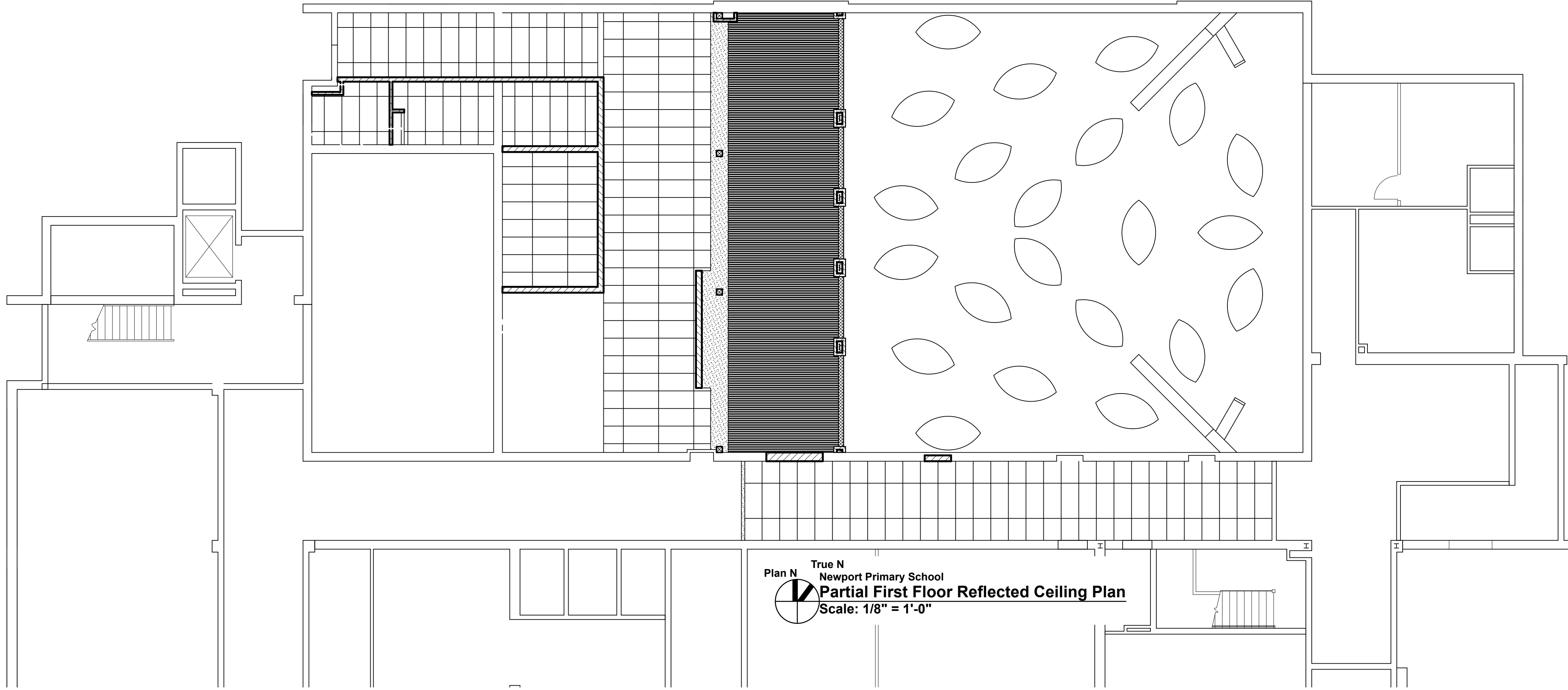


5 Wall Section
Scale: 1" = 1'-0"

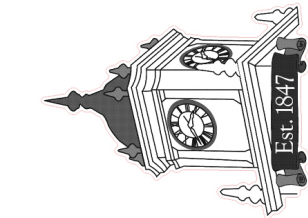


8 Typ. Slab Infill Detail
Scale: 3/4" = 1'-0"





Plan N True N
Newport Primary School
Partial First Floor Reflected Ceiling Plan
Scale: 1/8" = 1'-0"



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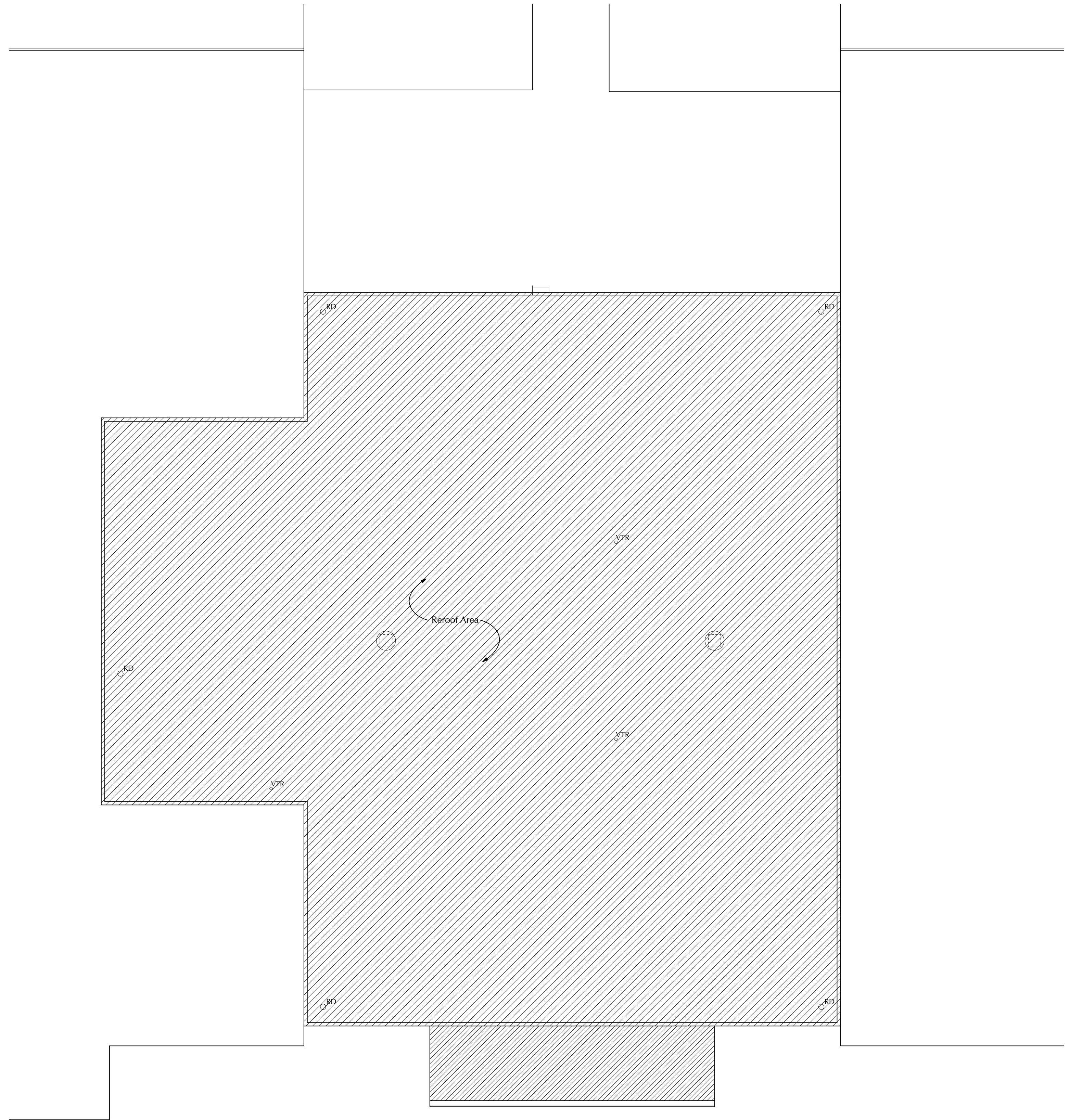
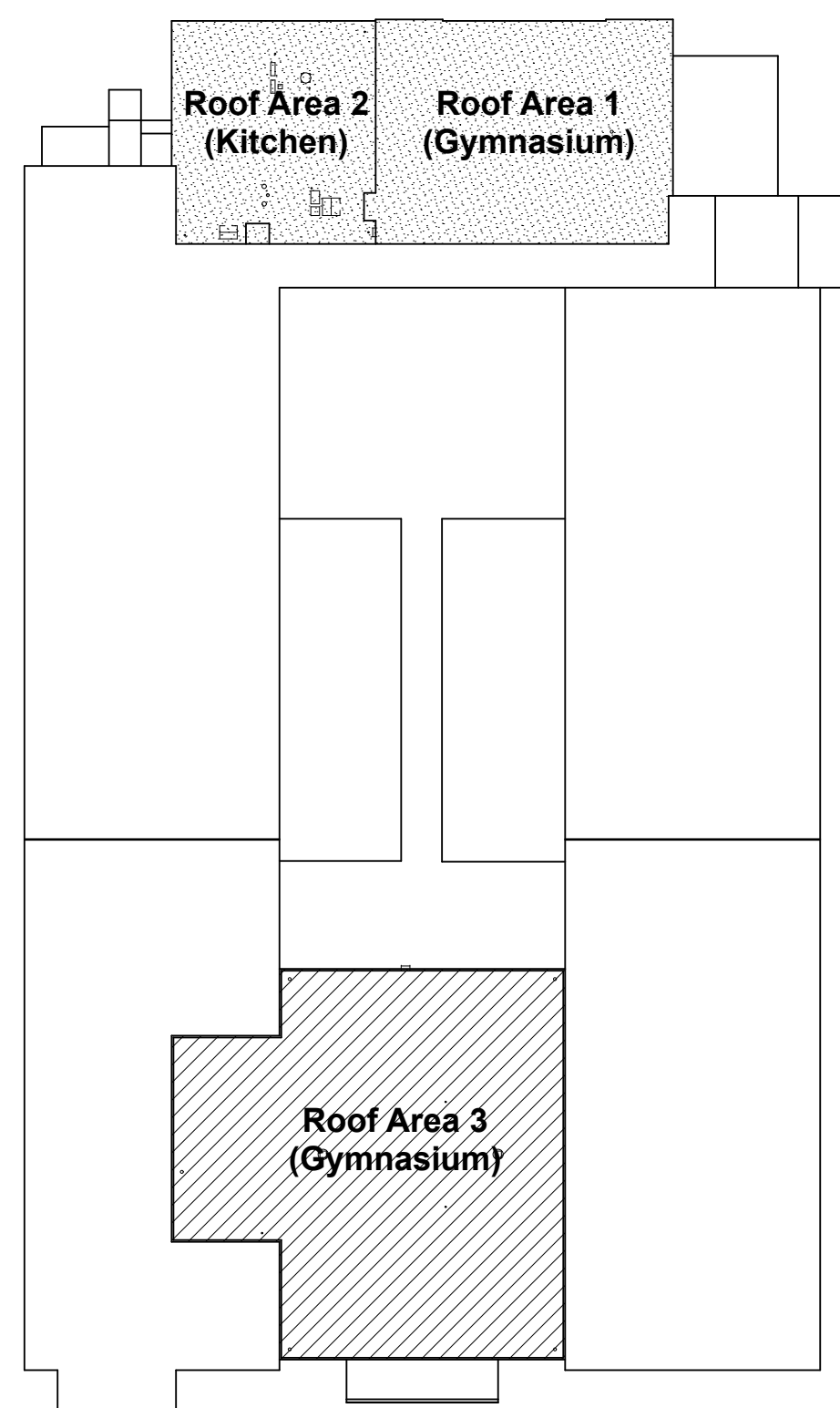
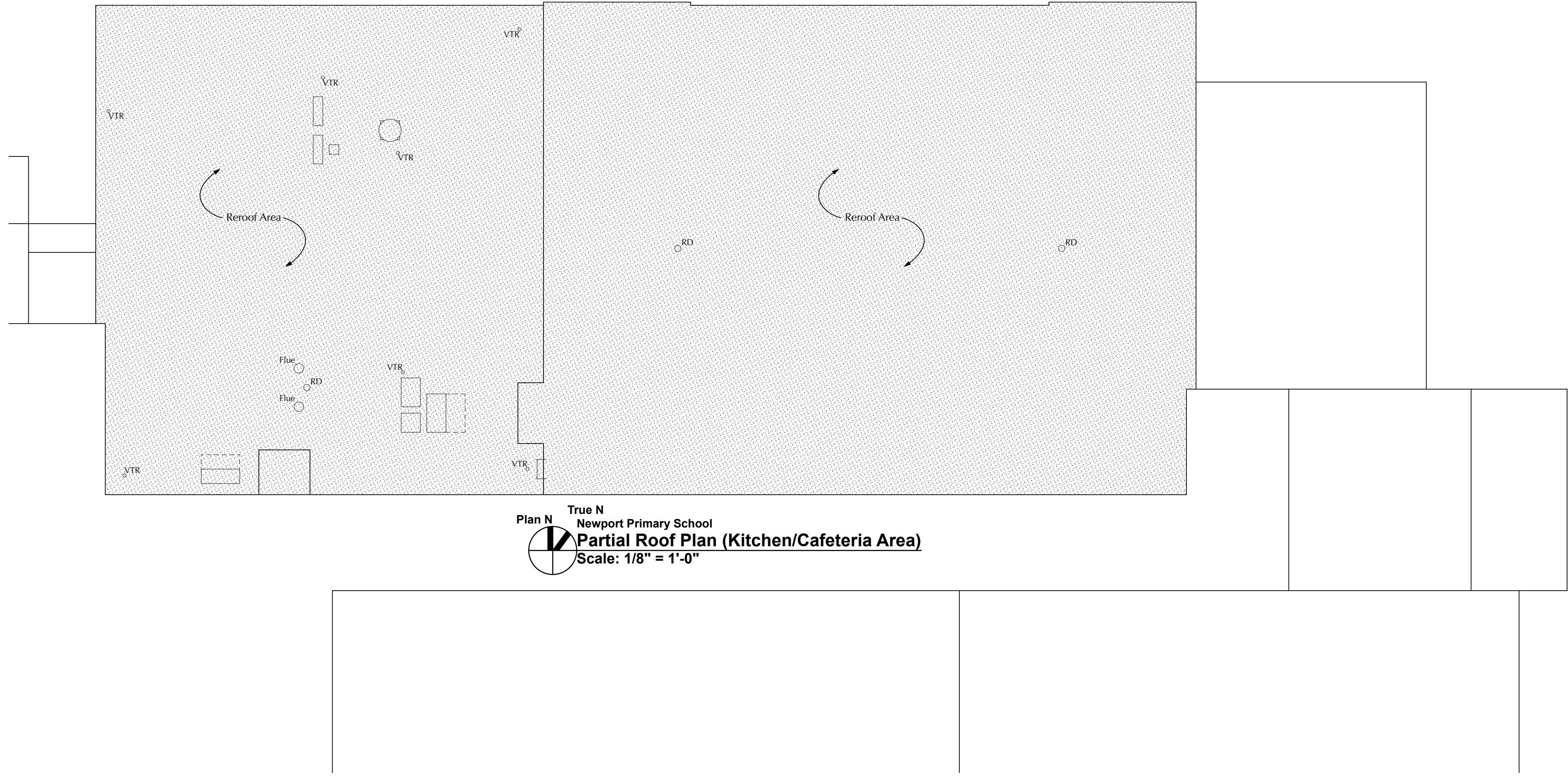
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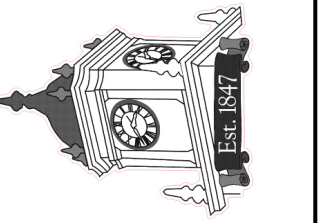
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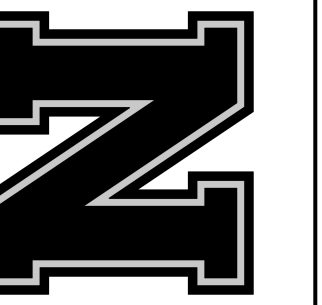


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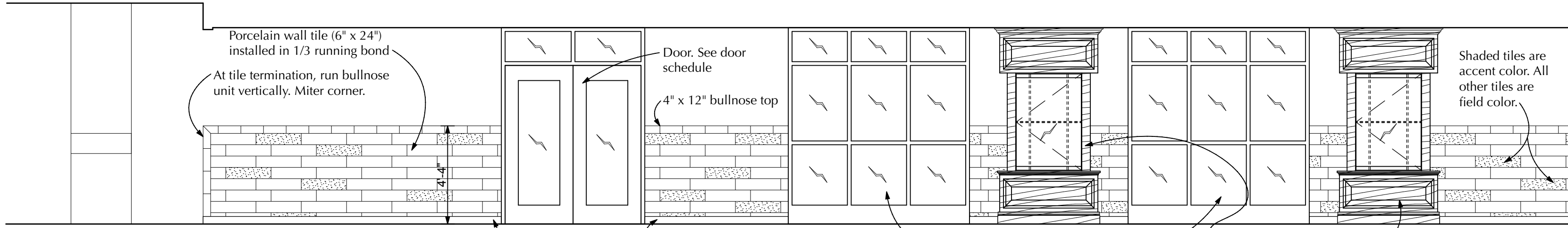
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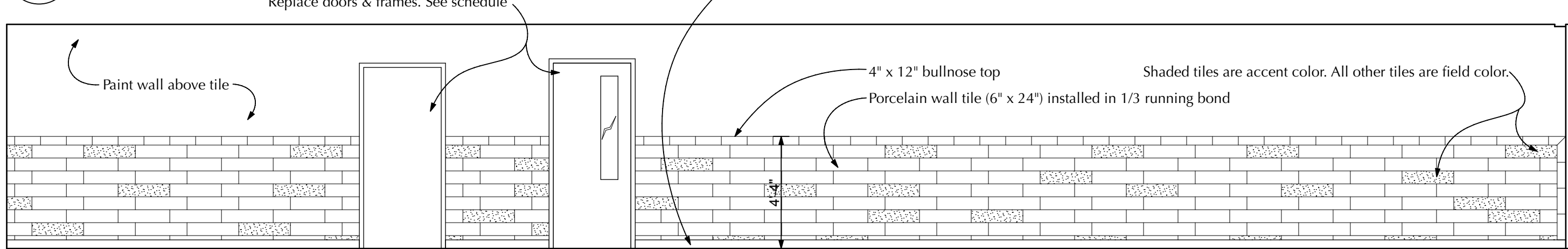
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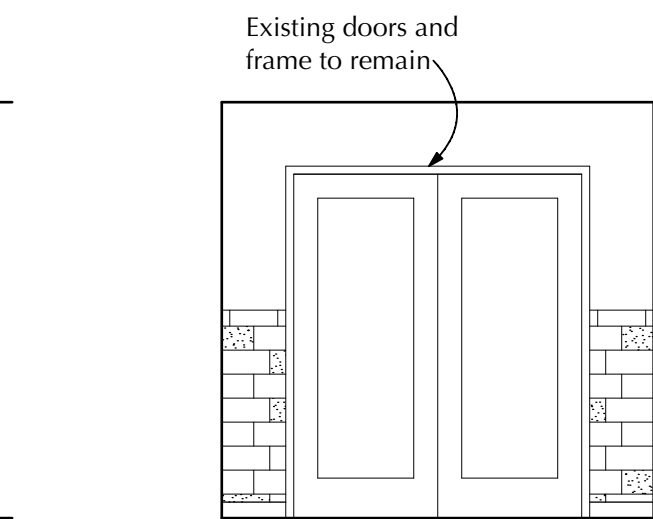
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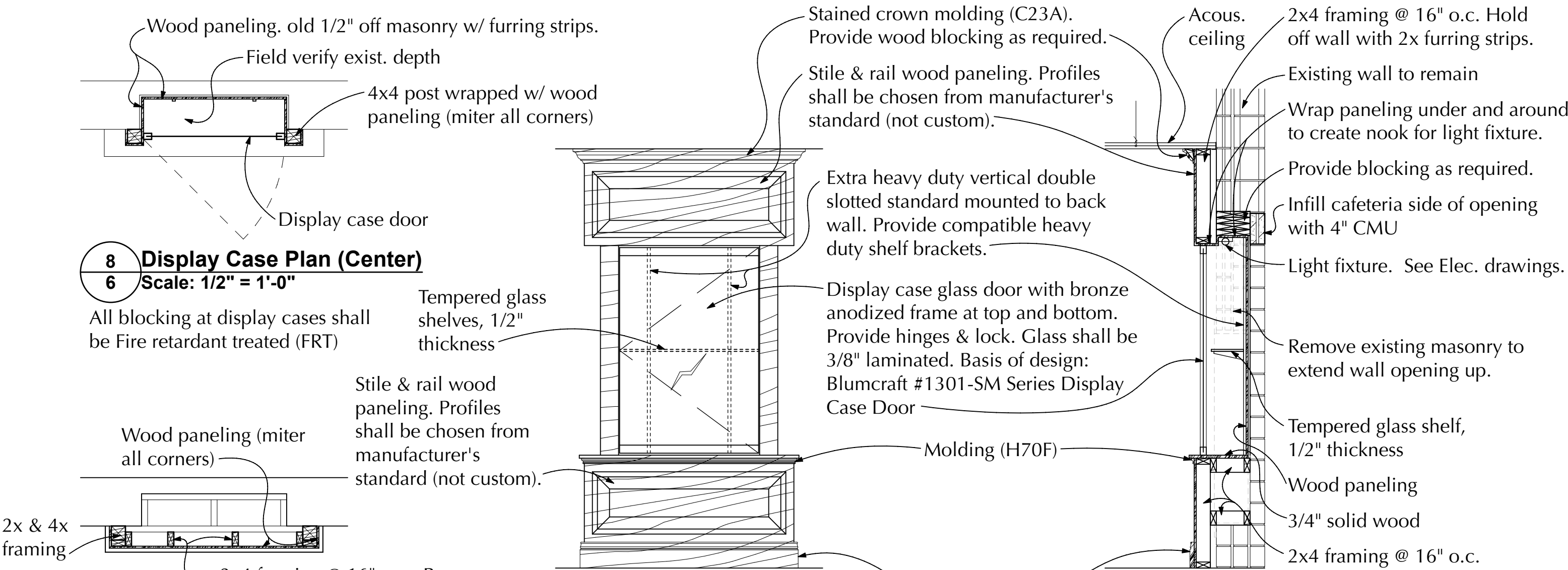
1
6 Corridor C-1 North Wall Tile Elevation
Scale: 1/4" = 1'-0"



2
6 Corridor C-1 South Wall Tile Elevation
Scale: 1/4" = 1'-0"



3
6 Corridor C-1 East Wall Tile Elevation
Scale: 1/4" = 1'-0"

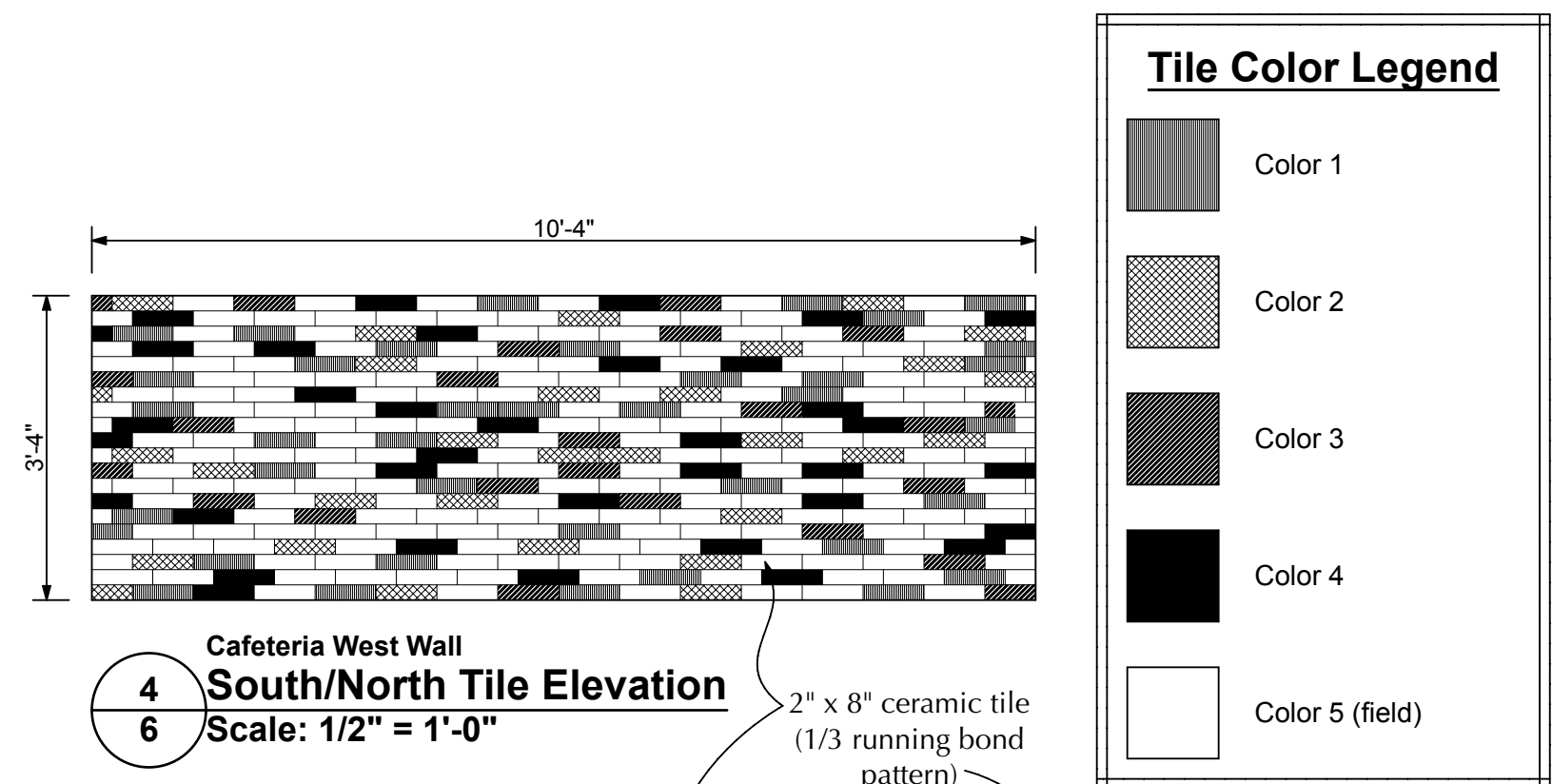


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6 Display Case Plan (Center)
Scale: 1/2" = 1'-0"

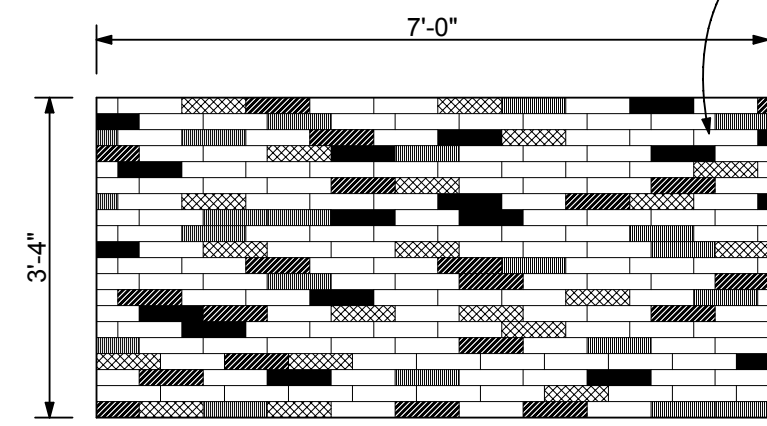
9
6 Display Case Plan (Upper/Lower)
Scale: 1/2" = 1'-0"

10
6 Display Case Elevation
Scale: 1/2" = 1'-0"

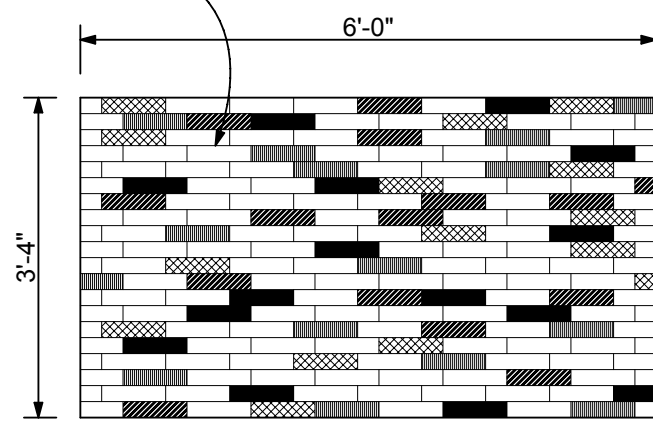
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6 Display Case Section
Scale: 1/2" = 1'-0"



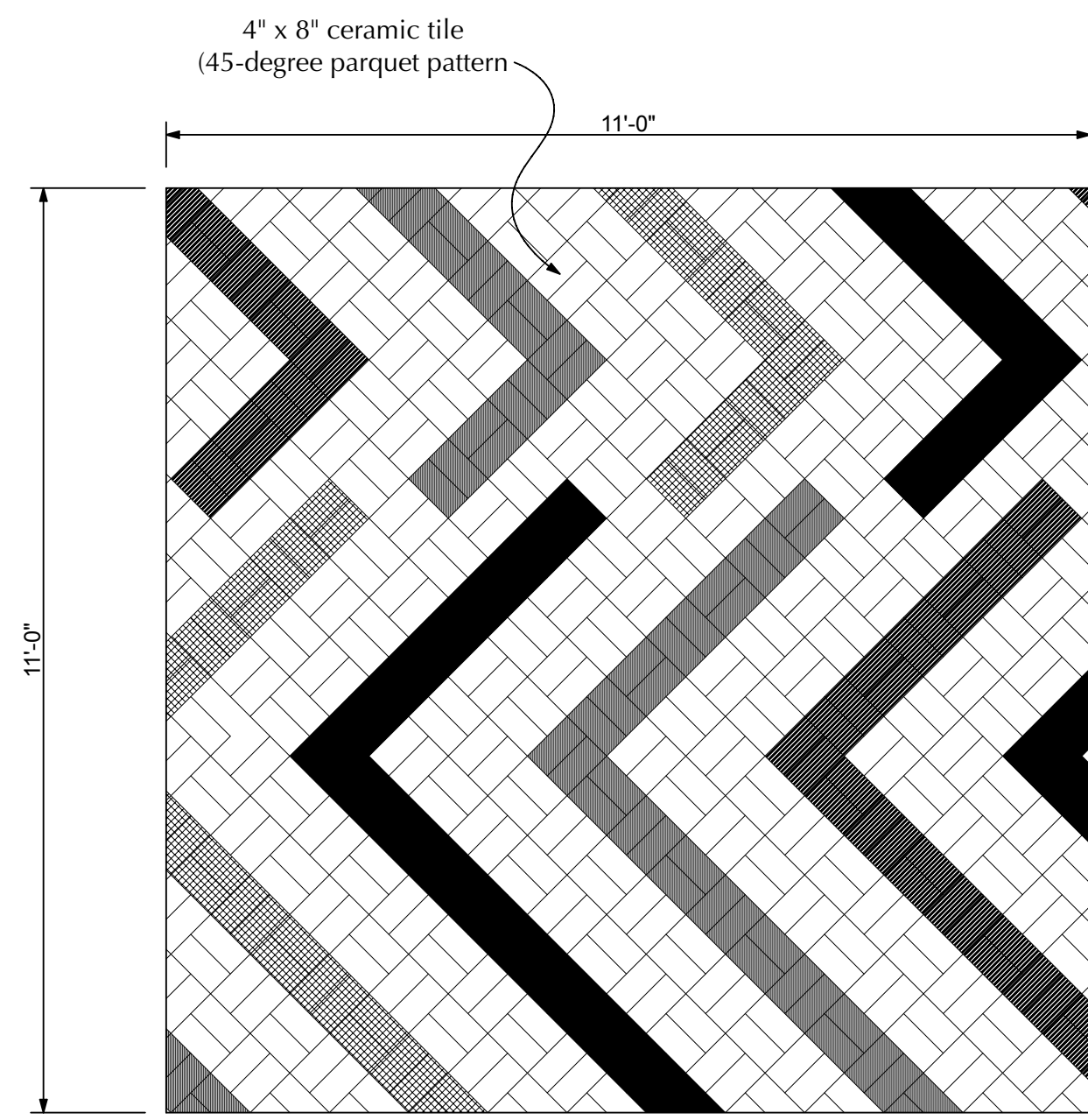
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6 Cafeteria West Wall South/North Tile Elevation
Scale: 1/2" = 1'-0"



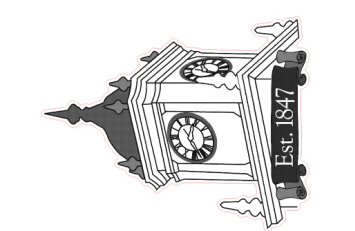
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6 Cafeteria West Wall Second Tile Elevation
Scale: 1/2" = 1'-0" North section is mirrored

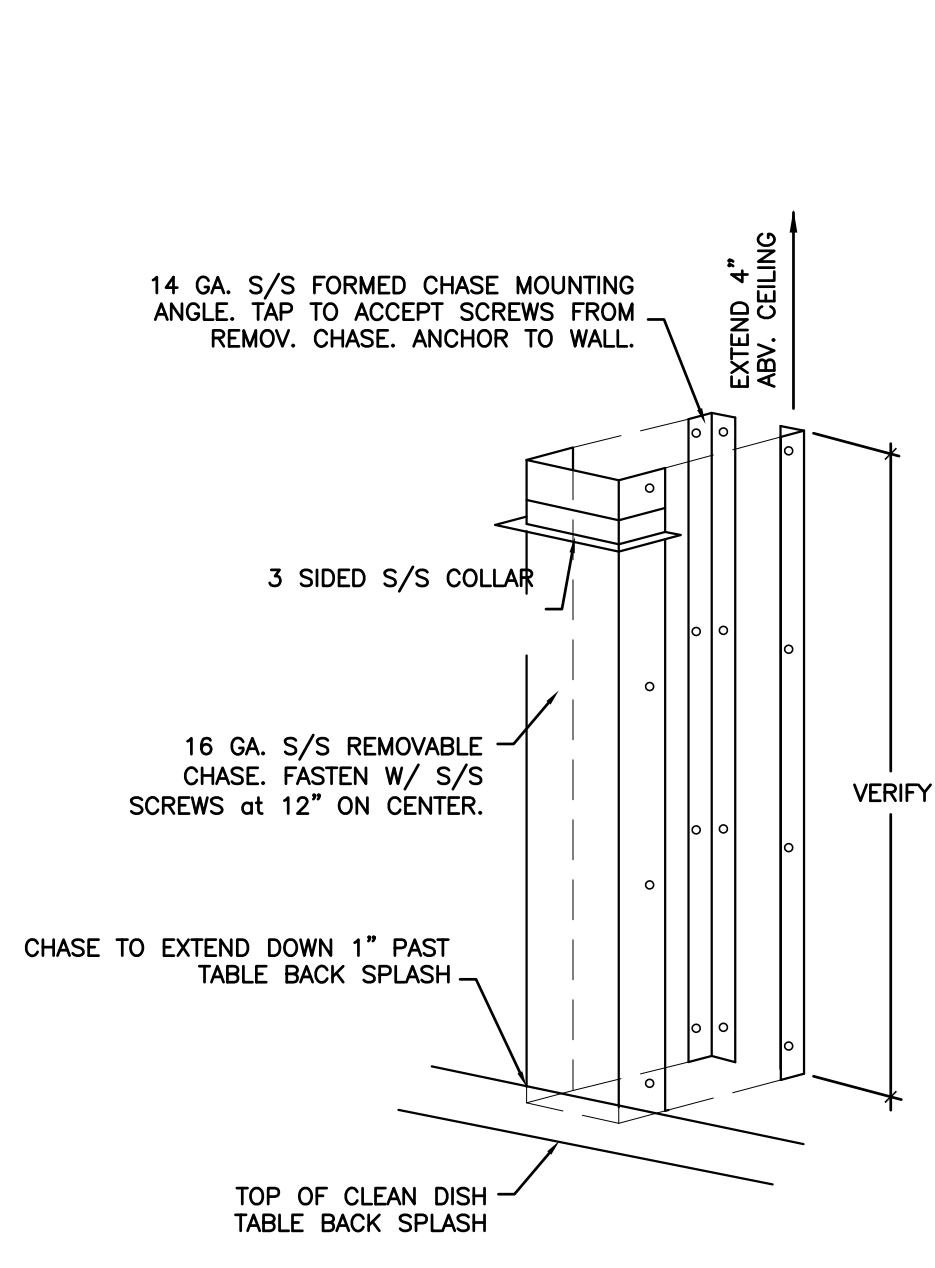
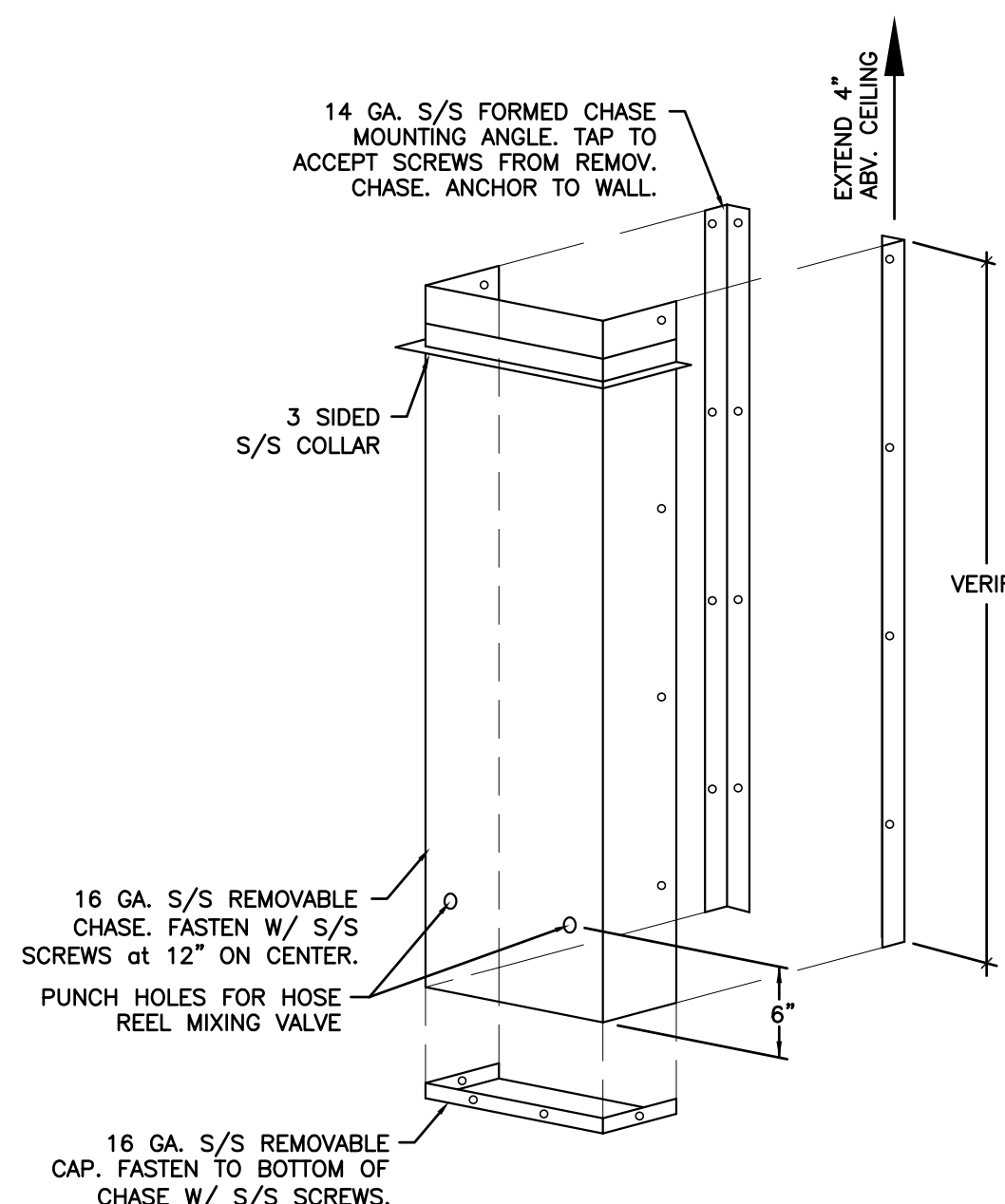
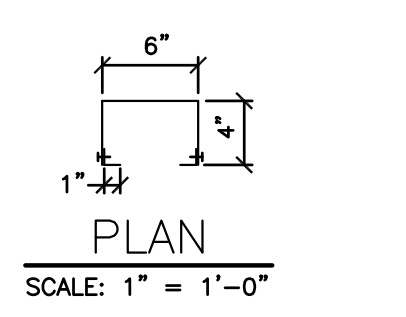
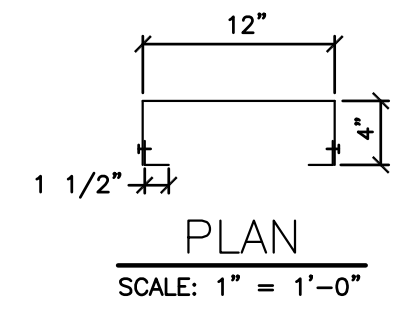
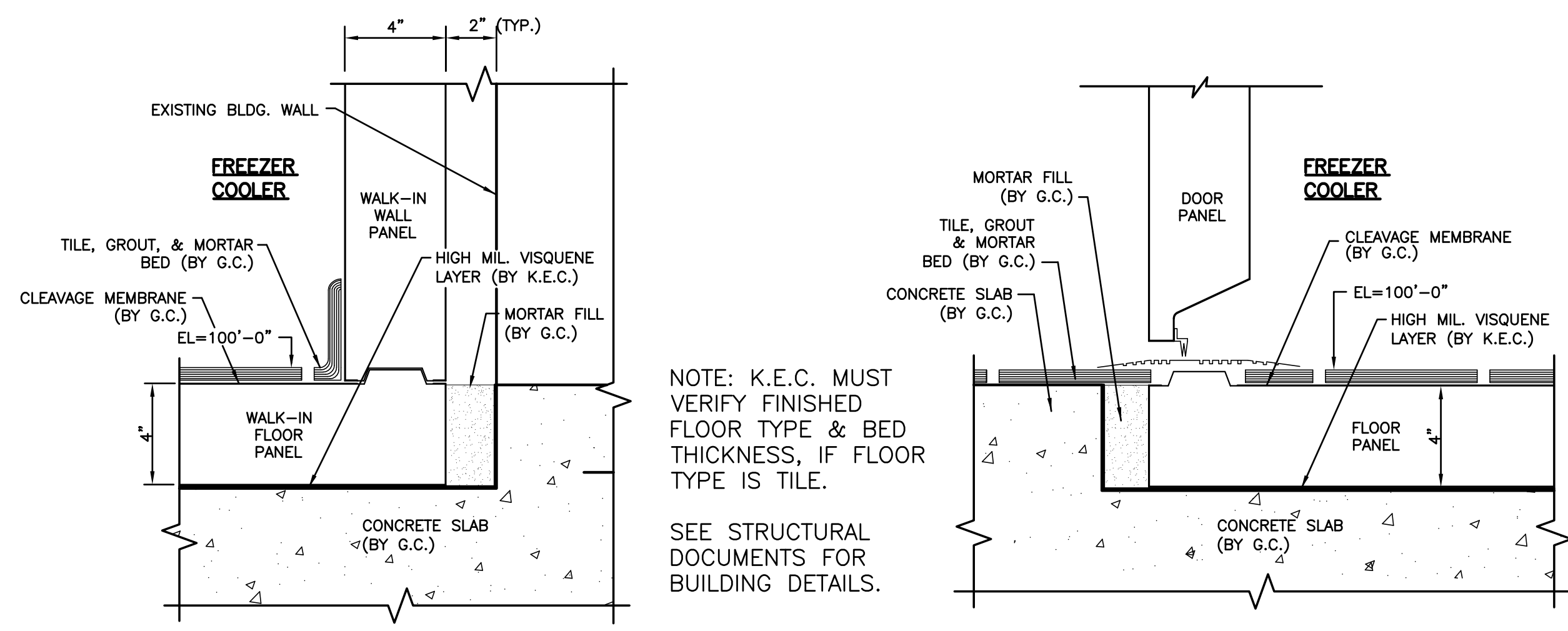


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6 Cafeteria West Wall Center Tile Elevation
Scale: 1/2" = 1'-0"



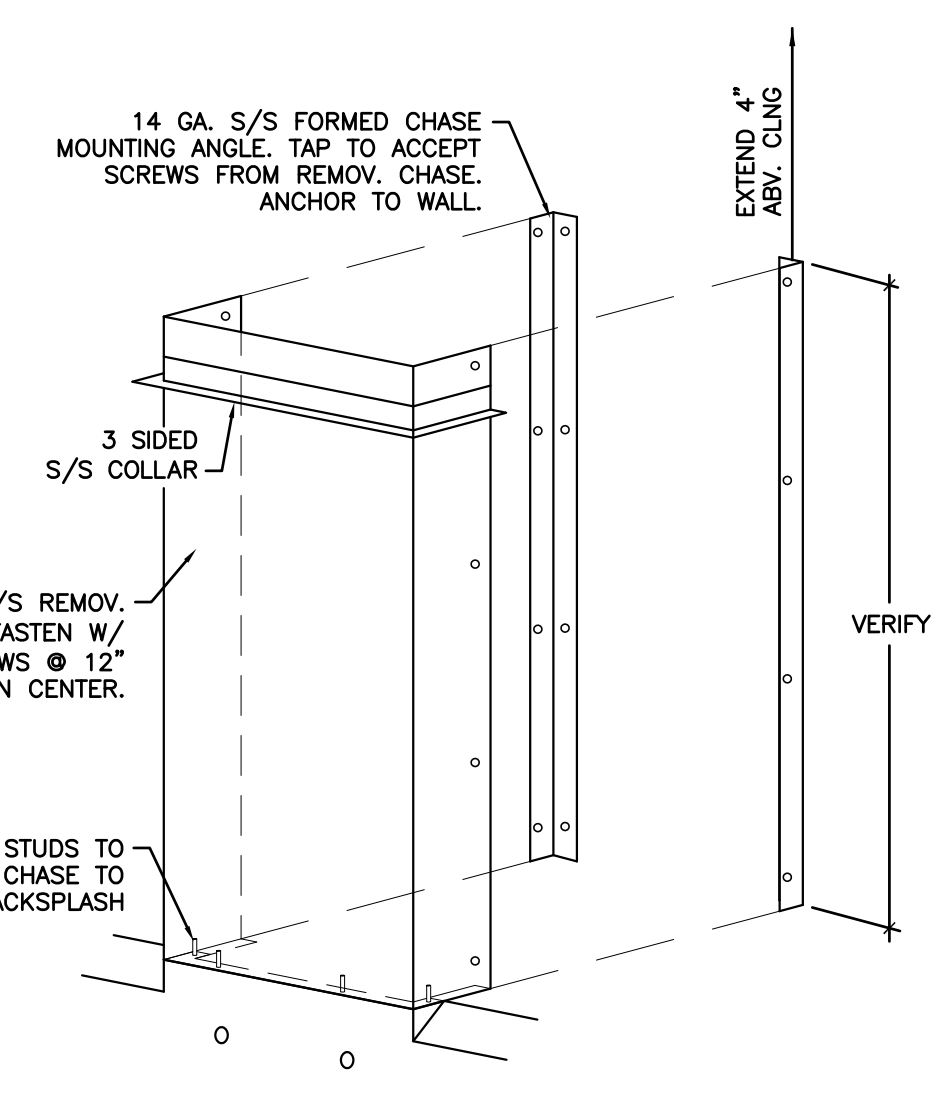
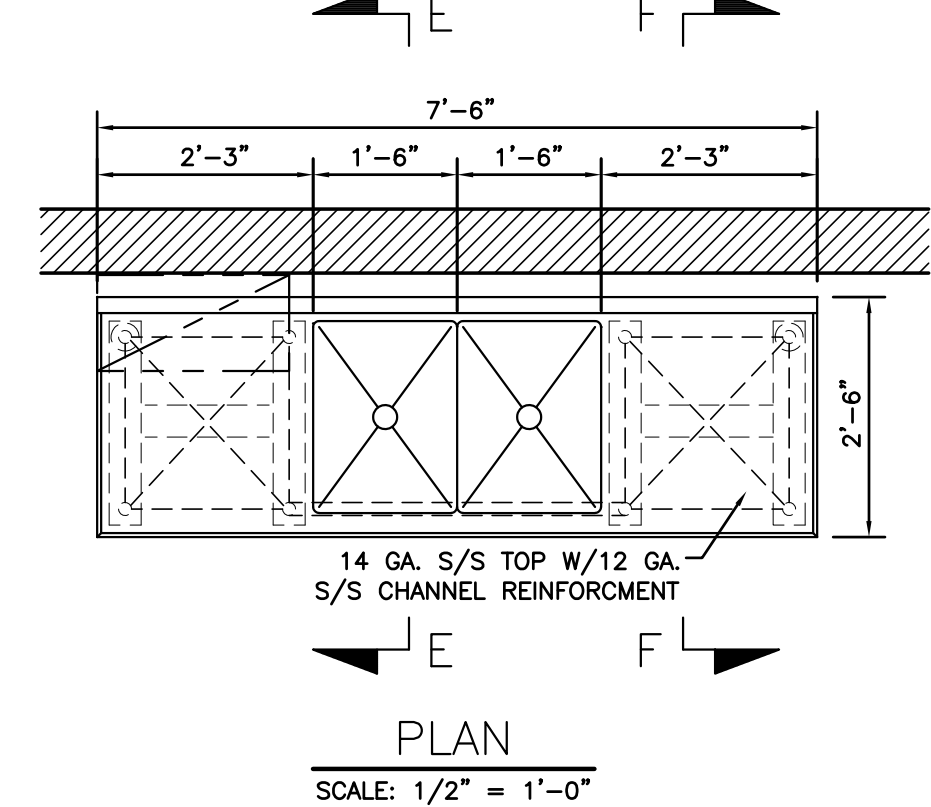
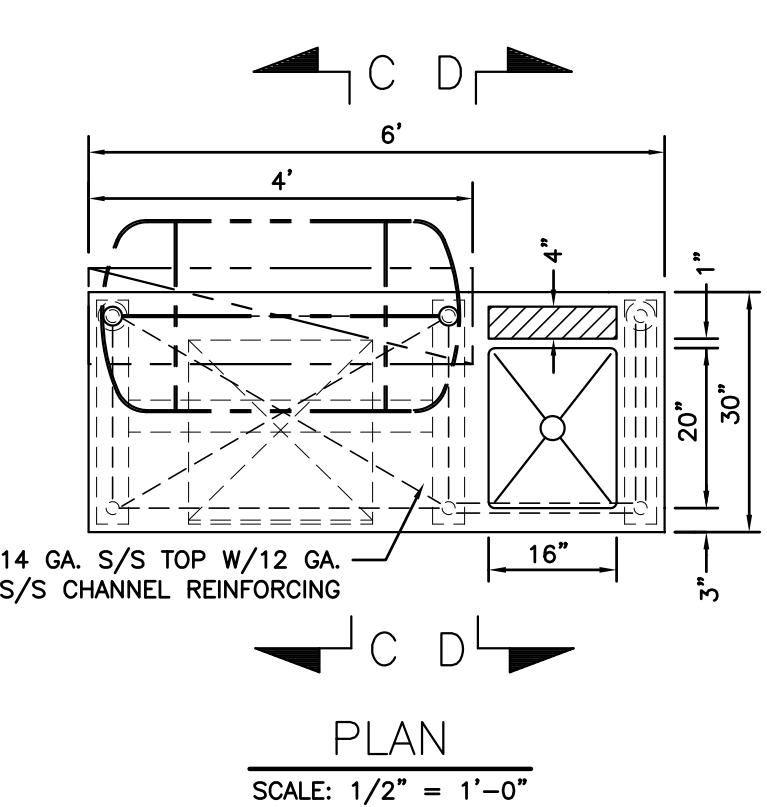
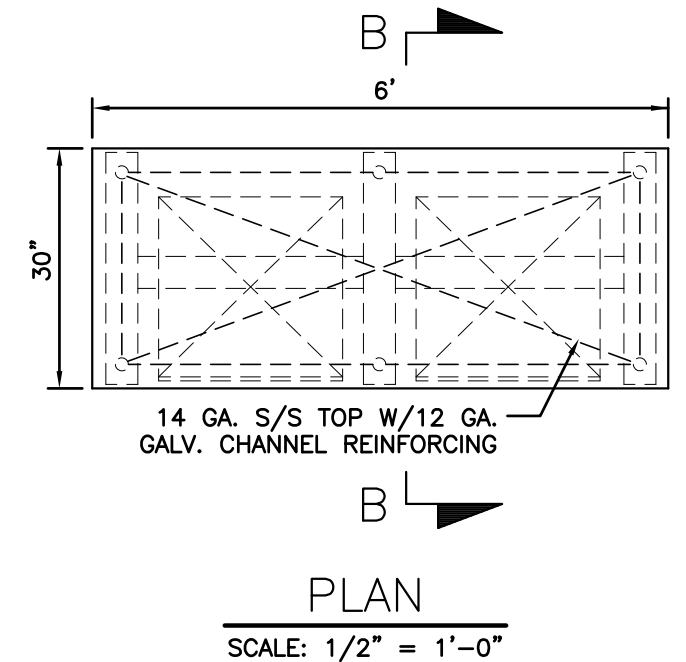
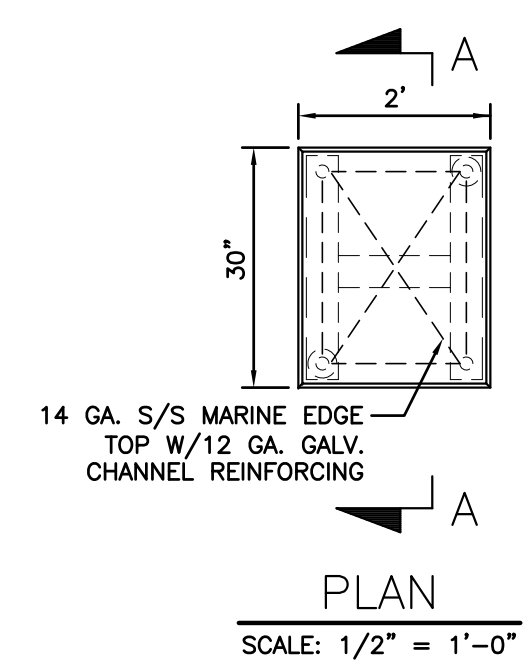
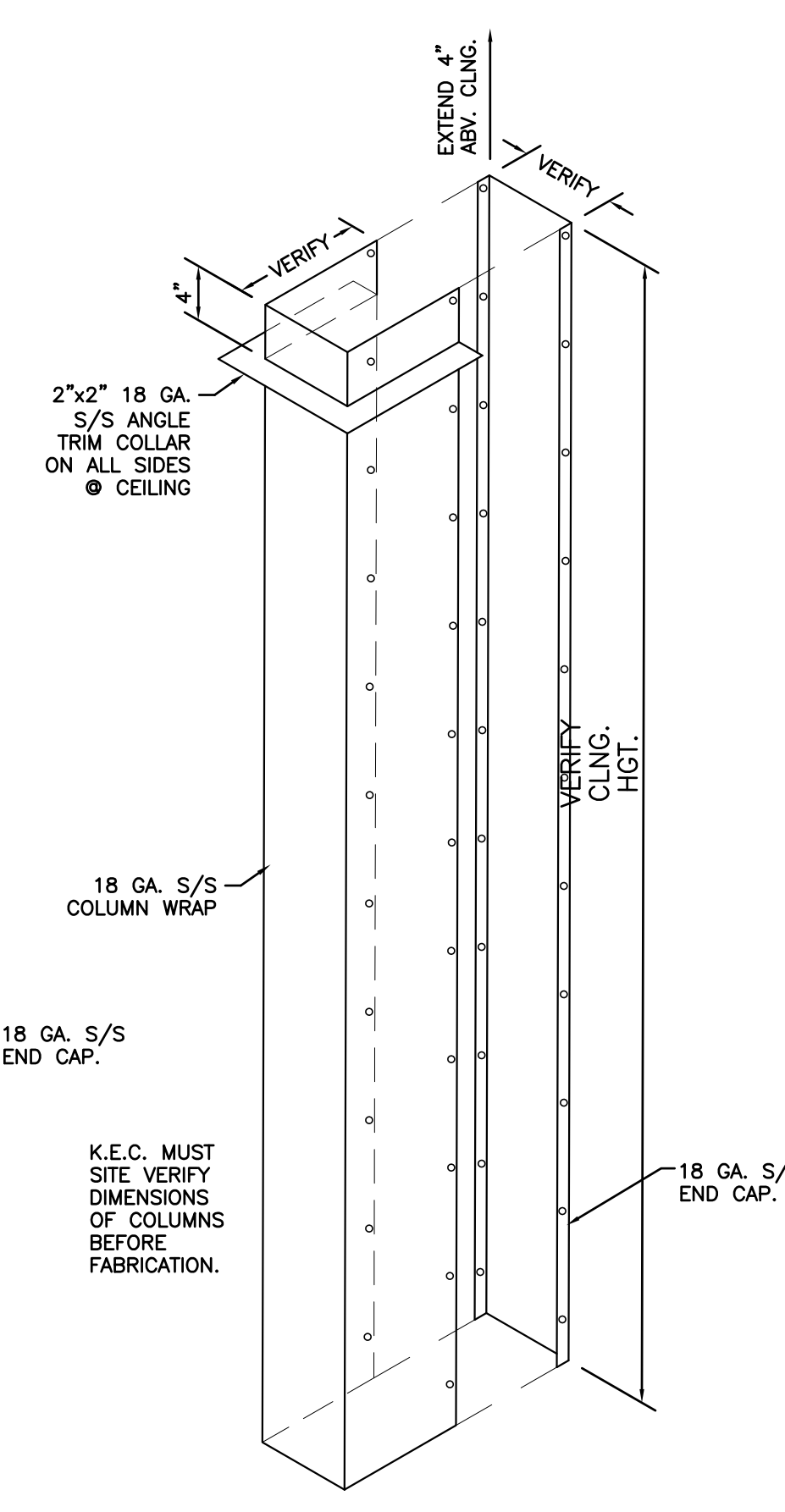
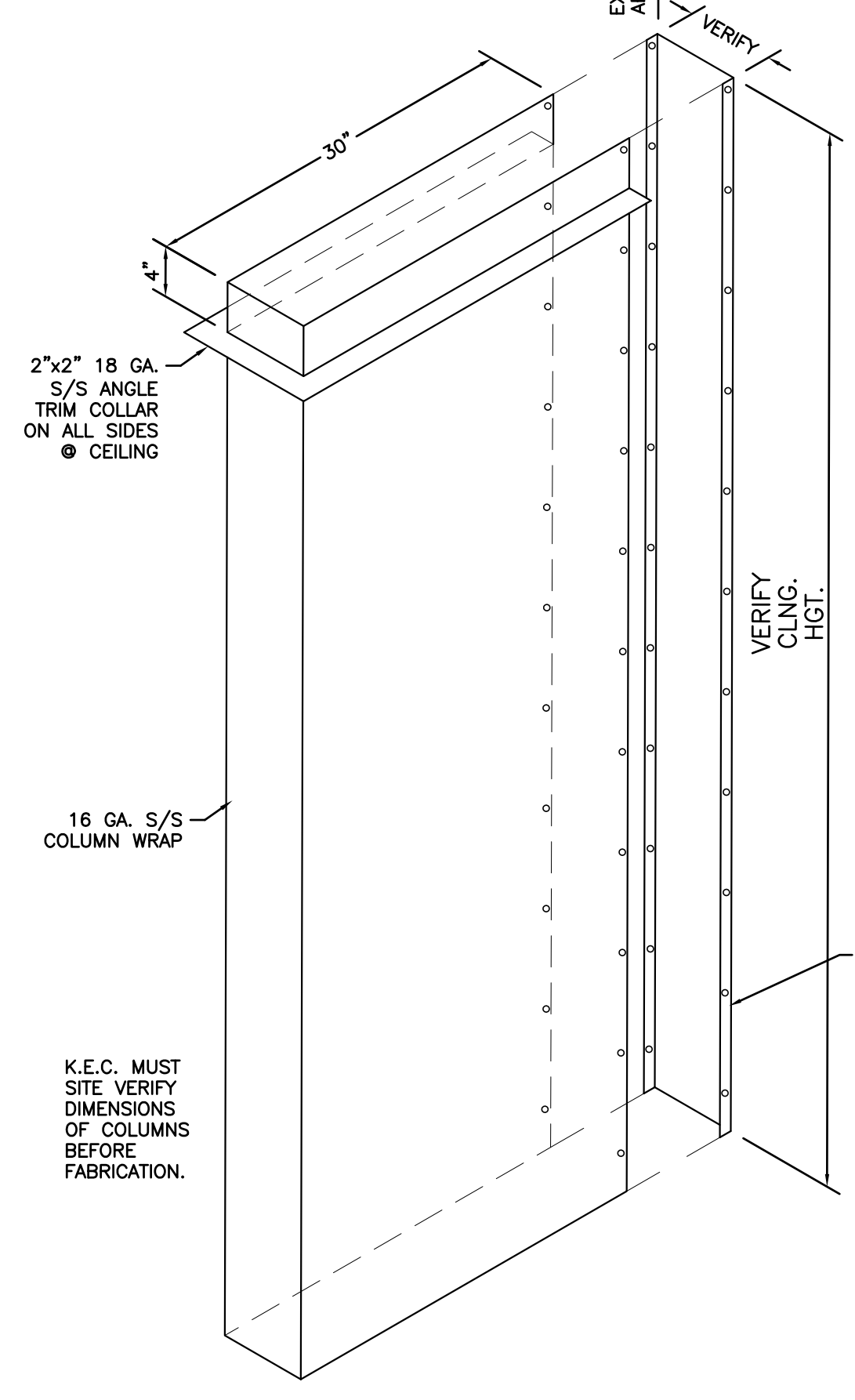
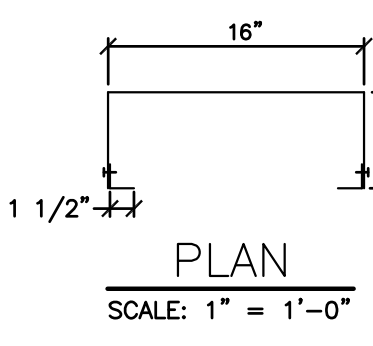
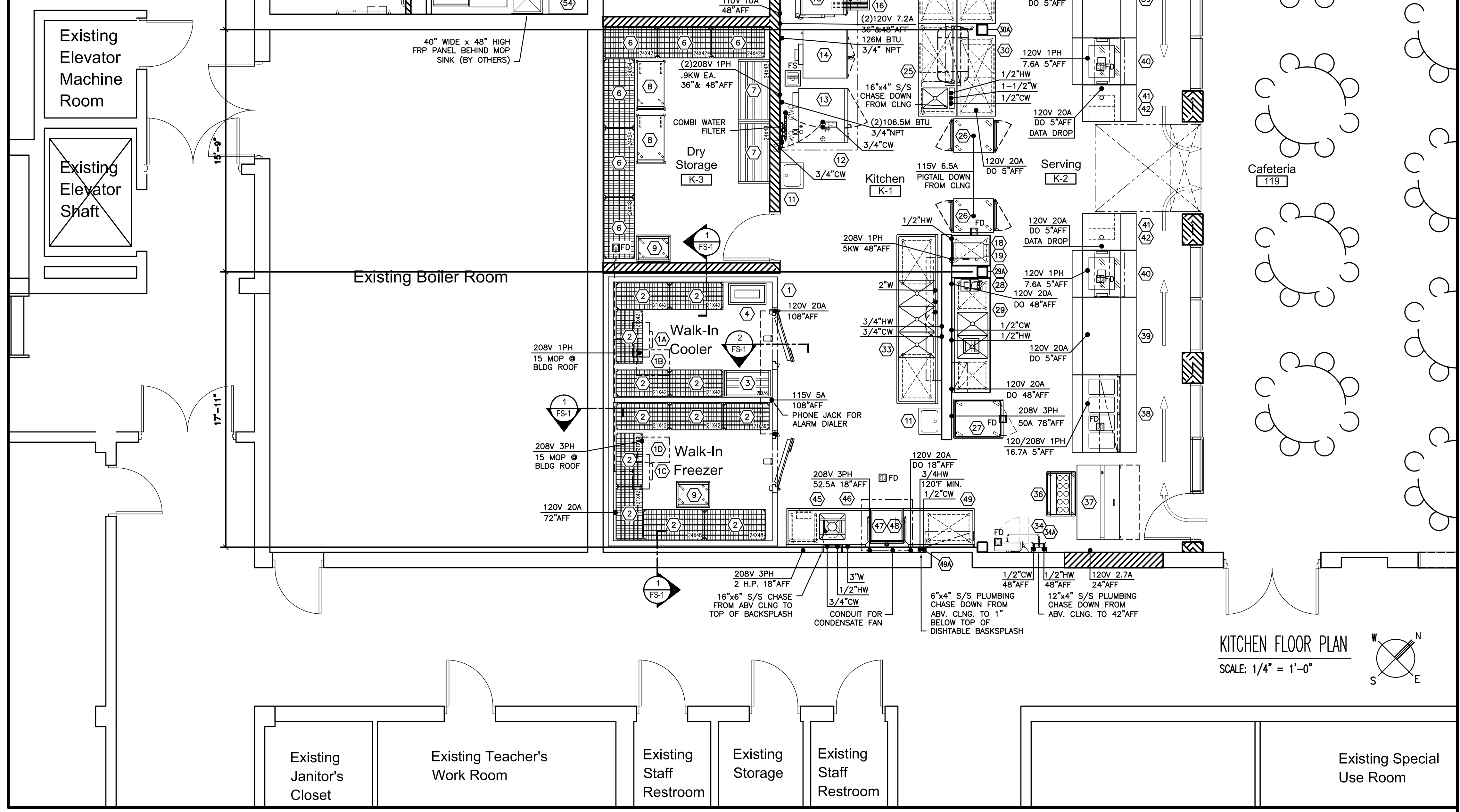
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6 Kitchen North/South Wall Tile Elevation
Scale: 1/2" = 1'-0"





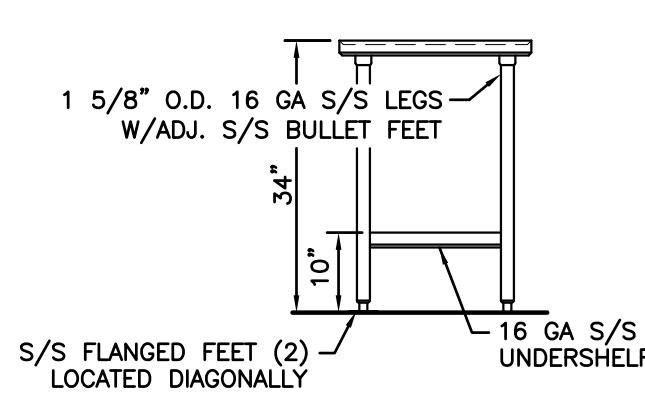
ITEM #34A - 12"x4" S/S UTILITY CHASE

ITEM #49A - 6"x4" S/S UTILITY CHASE

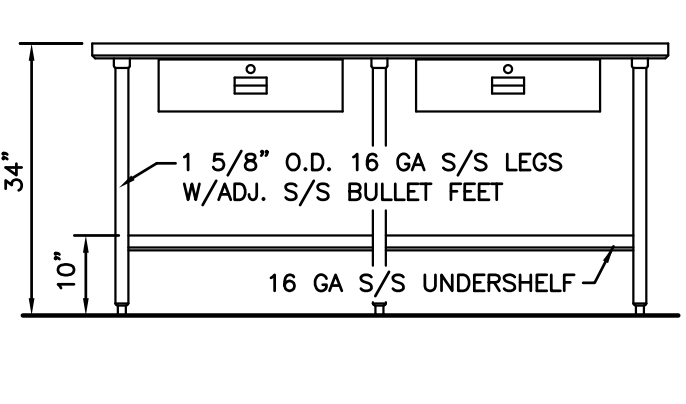


ITEM #29A - S/S COLUMN WRAP

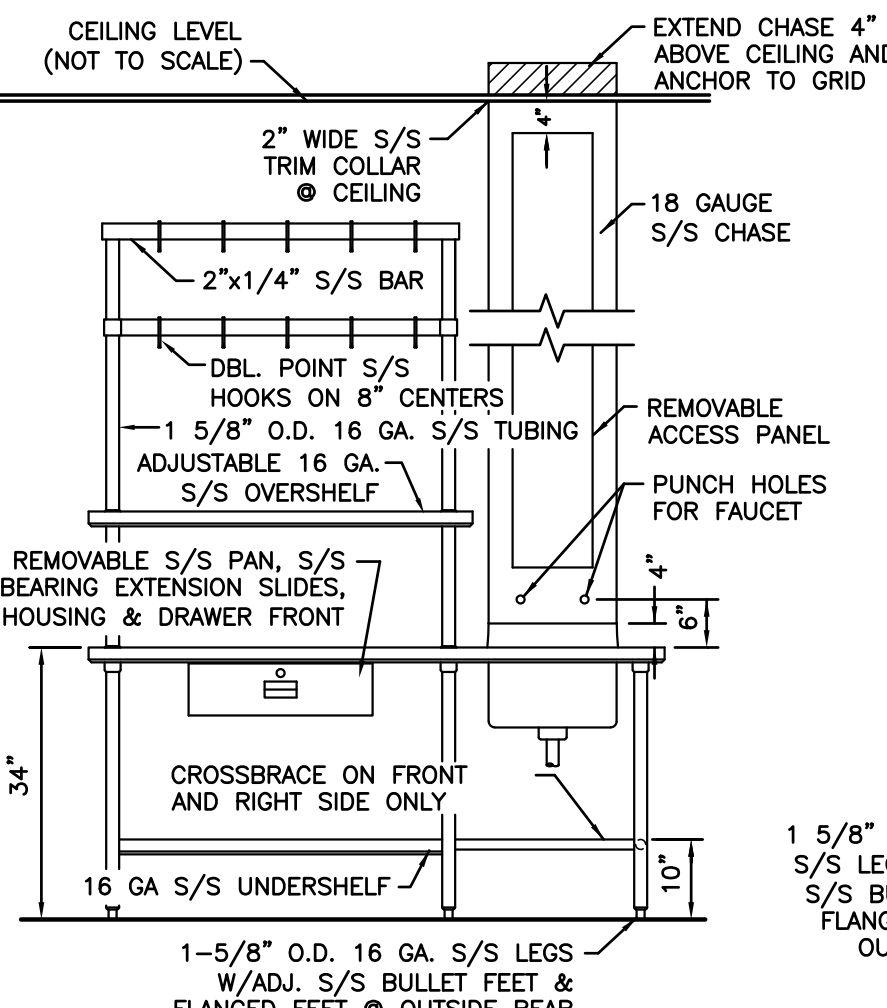
ITEM #30A - S/S COLUMN WRAP



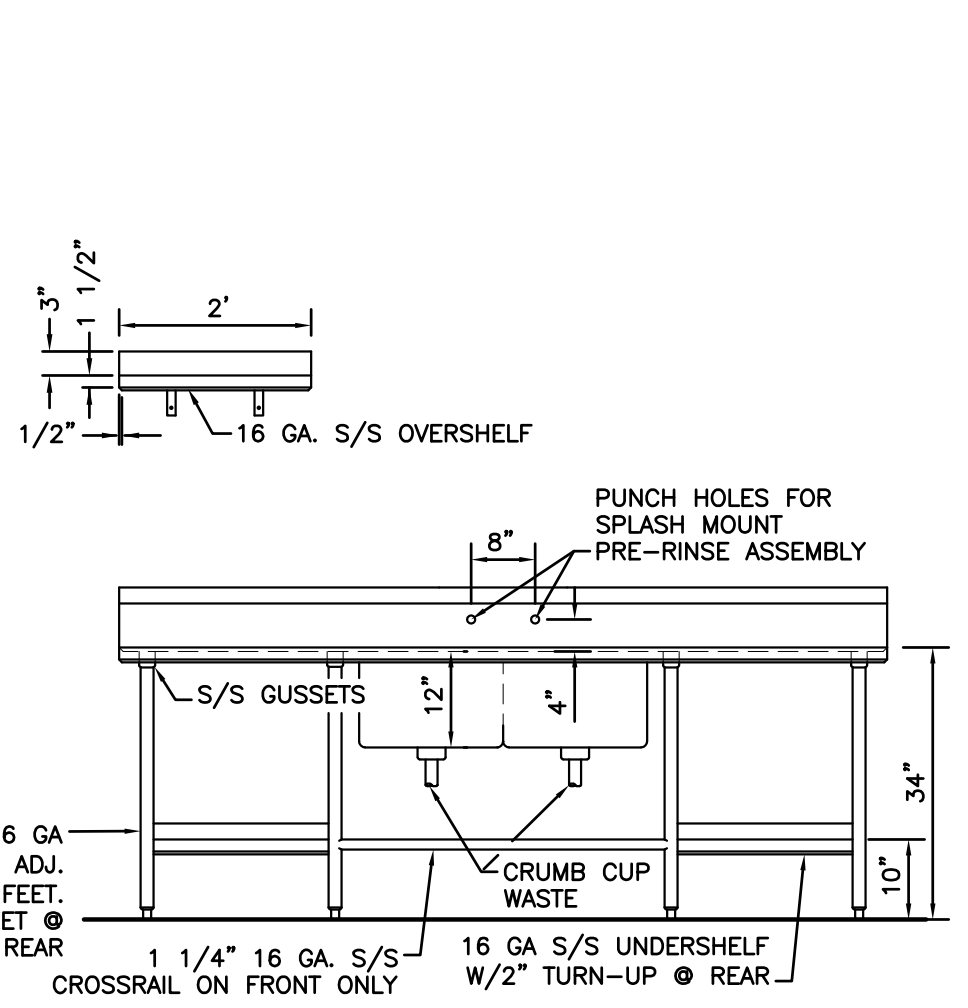
ITEM #19 WORK TABLE



ITEM #24 WORK TABLE



ITEM #25 WORK TABLE W/SINK



ITEM #29 PREP SINK

SPECIFICATIONS -- ITEM #12

HOOD: (1) Type I canopy exhaust hood, sized as shown on the drawings. Factory to pre-assemble hood sections and furnish hangers for field assembly. Hood to be constructed of 18-gauge type 304 stainless steel #4 finish, where exposed. Double thickness outside and panels solid welded and polished to face with no exposed joints. Filter rack must be lock welded to inside end panel. UL 710 Listed Construction.

LIGHTS: (3) Recessed LED light fixtures UL Listed for use in Type I canopy hoods, factory-wired to junction box and switches on wireway.

FILTERS: (9) 25"x20"x2" UL Classified, stainless steel baffle type grease filters.

BULKHEAD: 18-gauge stainless steel bulkhead between top of hood and ceiling on all exposed sides. Verify ceiling height before construction.

WIREWAY COVER: 18-gauge stainless steel vertical wireway cover, centered on face of hood.

SWITCHES: On/Off control switches for hood lights, exhaust and supply fan. Mounted on wireway cover.

FAN PACKAGE: Exhaust fan (1) splitbelt centrifugal spun aluminum, belt driven, UL 782 Listed for use in grease-laden environments, with prewired disconnect switch, tilting base, and grease catch trough. Wheel size to be 24" minimum and rated at 14.1 zones maximum. Supply air fan (1) centrifugal belt driven, side inlet type in square housing. Provide prewired disconnect switch, motorized backdraft damper, aluminum air filters, and motor starters for exhaust and supply fans factory installed within cabinet. Wheel size to be 12" minimum and rated at 21.0 zones maximum. Provide painted exterior for supply air fan.

ROOF CURBS: 18-gauge welded galvanized steel, internally insulated, and equipment support rack, set for flat roof. Verify roof pitch and direction before construction.

FURNACE: Direct-fired gas furnace to be a modular attachment to the supply fan. Unit set for 7" WC minimum pressure at rated flow, 14" WC maximum, 1" gas supply connection. Furnace control to be electronic spark ignition. Heater includes all controls with duct seal, and disconnect switch. Painted exterior to match fan package.

FAN DISCHARGE: 10'-0" minimum from any building eave and 40' above building roof.

EXHAUST DUCT: 18-gauge welded black iron exhaust duct, with continuous liquid tight external welds at all seams and joints. Provide 1/4" per foot minimum slope toward hood on all horizontal duct runs. Provide cleanouts every 10'-0" of duct length or at every change of direction, as required per code.

EXHAUST DUCT WRAP: Exhaust ducts serving type I hoods shall be installed with a rated duct wrap system meeting ASTM E2336 Standards, from the point of ceiling penetration (or duct connection) at the hood, to the termination of the duct at the exhaust fan (or exit of the duct from the building). The duct wrap system shall be installed in strict accordance with the system's listing and the manufacturer's instructions for 2-hour-rated system with 0" clearance to combustible and grease duct installation. System requires two layers of 1/2" uncompressed insulation. Insulation to be bonded to the duct with steel banding straps. Penetration of rated walls and floors shall be fire-stopped in accordance with the system manufacturer's installation instructions.

MAKE UP AIR DUCT: Light gauge steel construction per SMACNA low pressure standards.

PLENUMS: Make-up air plenums at ceiling level, as shown on the drawing. Plenum to be constructed of white clad steel with stainless steel perforated face diffusers.

MAKE UP AIR TAPS IN PLENUM: Flex duct connections, spin-in type, each with balancing damper.

FIRE CONTROL SYSTEM: (1) UL 300 Listed, liquid chemical type. System to provide hood, duct, and required surface protection. System includes: mechanical gas valve (verify gas line size), dual microswitch, and remote manual pull station. Piping to be stainless steel or chrome, where exposed. Fire system to be installed in cabinet on end of hood.

SYSTEM ACTUATION CONTROL AND APPLIANCE INTERLOCK: Hood to include an "Auto-Start" control system as required by the International Mechanical Code as applied by state and local agencies. Control to monitor the differential between room ambient and hood face temperature, activating the hood system fans if the temperature should exceed a preset limit. Hood system will turn off 30 minutes after hood temperature has cooled below the preset limit. Solid state control to monitor up to eight hood locations with all set point and time during adjustment made at a single point.

EXHAUST SYSTEM WORK BY OTHER TRADES:

KITCHEN EQUIPMENT CONTRACTOR: Coordinate with General, Electrical, HVAC, and Plumbing contract documents.

ROOFING CONTRACTOR: Provide roof deck openings. Set in place and flash (with cant if required) roof curbs and equipment support rail furnished by the hood system manufacturer.

STRUCTURAL CONTRACTOR: Frame roof curb openings as required. Coordinate plot or structural member installation to provide required clearances for ductwork and shaft assemblies.

ELECTRICAL CONTRACTOR: (Hood System Requirements) Provide 120/60/1 20-amp circuit, for hood lights and controls to junction box on top of hood. Provide 3-phase circuit (for fan motors) to disconnect switch mounted on exterior of supply fan cabinet. Extend power wiring from motor starter panel (mounted on exterior of supply fan) to connection points on exhaust fan. Provide conduit and five wires from terminal block on hood to terminal block on supply fan motor starter panel. This work must be in accordance with the N.E.C.

ELECTRICAL CONTRACTOR: (Fire Protection System Requirements) Provide conduit and three wires from terminal block on hood to microswitch of fire protection system. Intercede wiring of the supply fans motor control device through the fire system microswitch, shutting off supply air in the event of fire system activation. Exhaust fan(s) to remain running in the event of fire system activation. Furnish and install a 4" octagon box for the fire system pull station, mounting the centerline of the box at 48" above the finished floor. Run 1/2" only conduit (with no bends) from the top of the box to 6" above the ceiling. If installed in a wall, the area around the 1/2" conduit should be notched or set back to allow the pulley elbow fitting for the pull station to be installed. Connections for the fire system wiring must be made in a junction box on the outside of the fire system cabinet. Furnish and install automatic power shut-off devices (shunt trip breakers, or definite purpose contactors) with interlocks to the fire system microswitch, shutting off all power below the hood (including control voltage) in the event of fire system activation. This work must be in accordance with N.F.P.A. 77A and the N.E.C.

MECHANICAL CONTRACTOR: Provide net room air demand as indicated on the hood system drawings. This air volume is required only when hood system is in operation. Provide normal heating and cooling of the kitchen area. Install gas valve (supplied with the gas suppression system) in the main supply line serving the cooking equipment to shut off gas service to the cooking equipment in the event of fire system activation. Provide and install service to gas-fired furnace on building roof.

SPECIFICATIONS -- ITEM #47

CONDENSATE EXHAUST FAN: (1) Spun aluminum, down-blast discharge, with 15" wheel and rated at 10.3 zones maximum. UL 705 Listed for general ventilation. Fan includes prewired disconnect switch, gravity-operated backdraft damper, and bird screen.

ROOF CURBS: 18-gauge welded galvanized steel, internally insulated, field-verify roof pitch before construction.

HOOD: Type II Condensate Hood, sized as shown on drawings, constructed of 18-gauge stainless steel. All welded construction with perimeter condensate trough and 12" square x 3" high collar. Provide matching interior baffle panels, removable without tools. Provide bulkhead between top of hood and ceiling on all exposed sides, constructed of same material as hood body.

CONDENSATE EXHAUST DUCT: Ductwork to be light-gauge welded stainless steel material.

EXHAUST SYSTEM WORK BY OTHER TRADES:

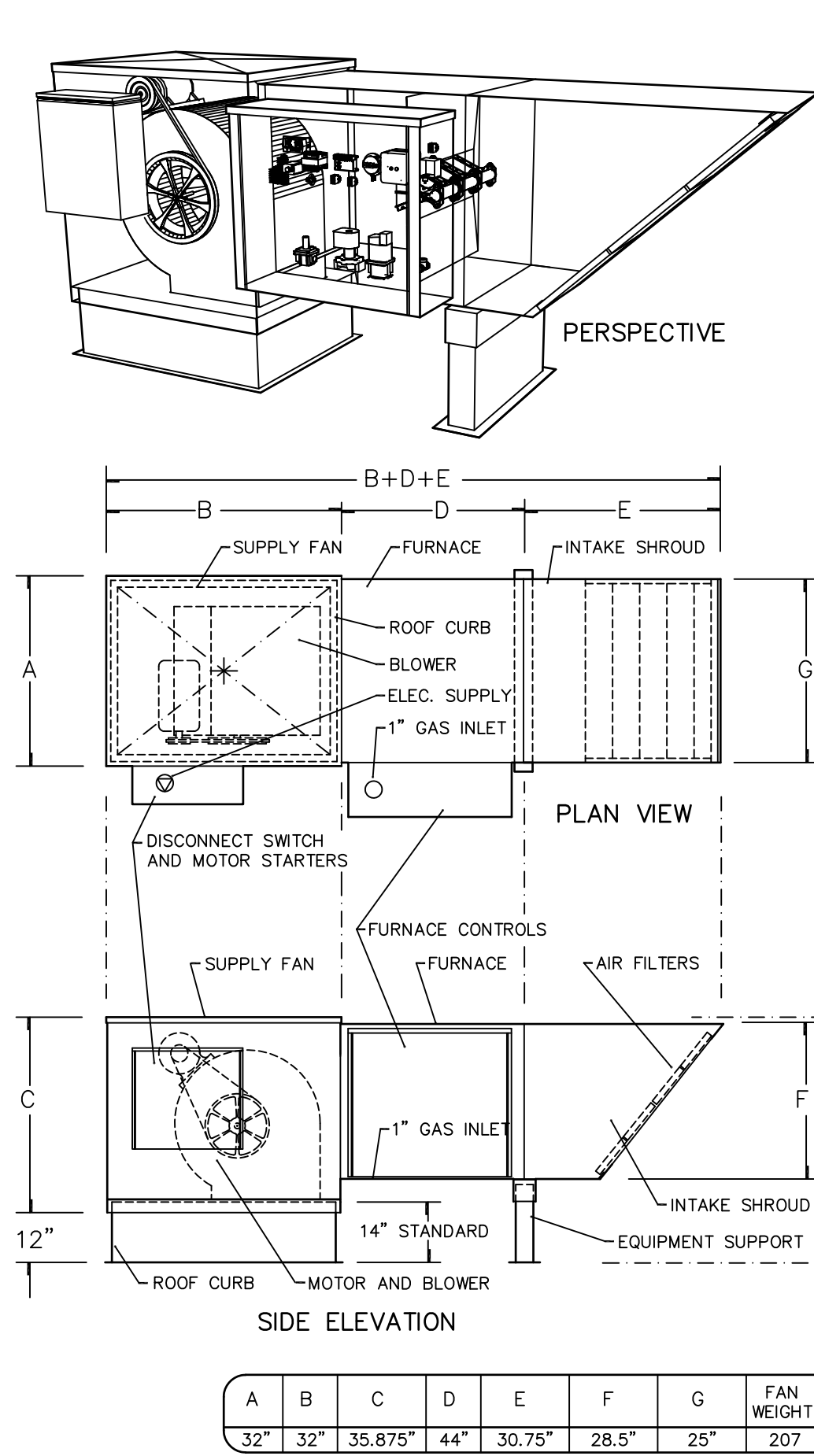
ROOFING CONTRACTOR: Provide roof opening. Set in place and flash (with cant if required) roof curb provided by the hood system manufacturer.

STRUCTURAL CONTRACTOR: Frame roof opening as required. Coordinate plot or structural member installation to provide required clearances for ductwork.

ELECTRICAL CONTRACTOR: Provide single-phase power as required to condensate exhaust fan as indicated on hood system drawings. Intercede fan controls on disconnection with condensate exhaust fan circuit for fan activation.

MECHANICAL CONTRACTOR: Provide net room air demand as indicated on the hood system drawings. This air volume is required only when the condensate exhaust hood system is in operation.

SUPPLY FAN AND FURNACE



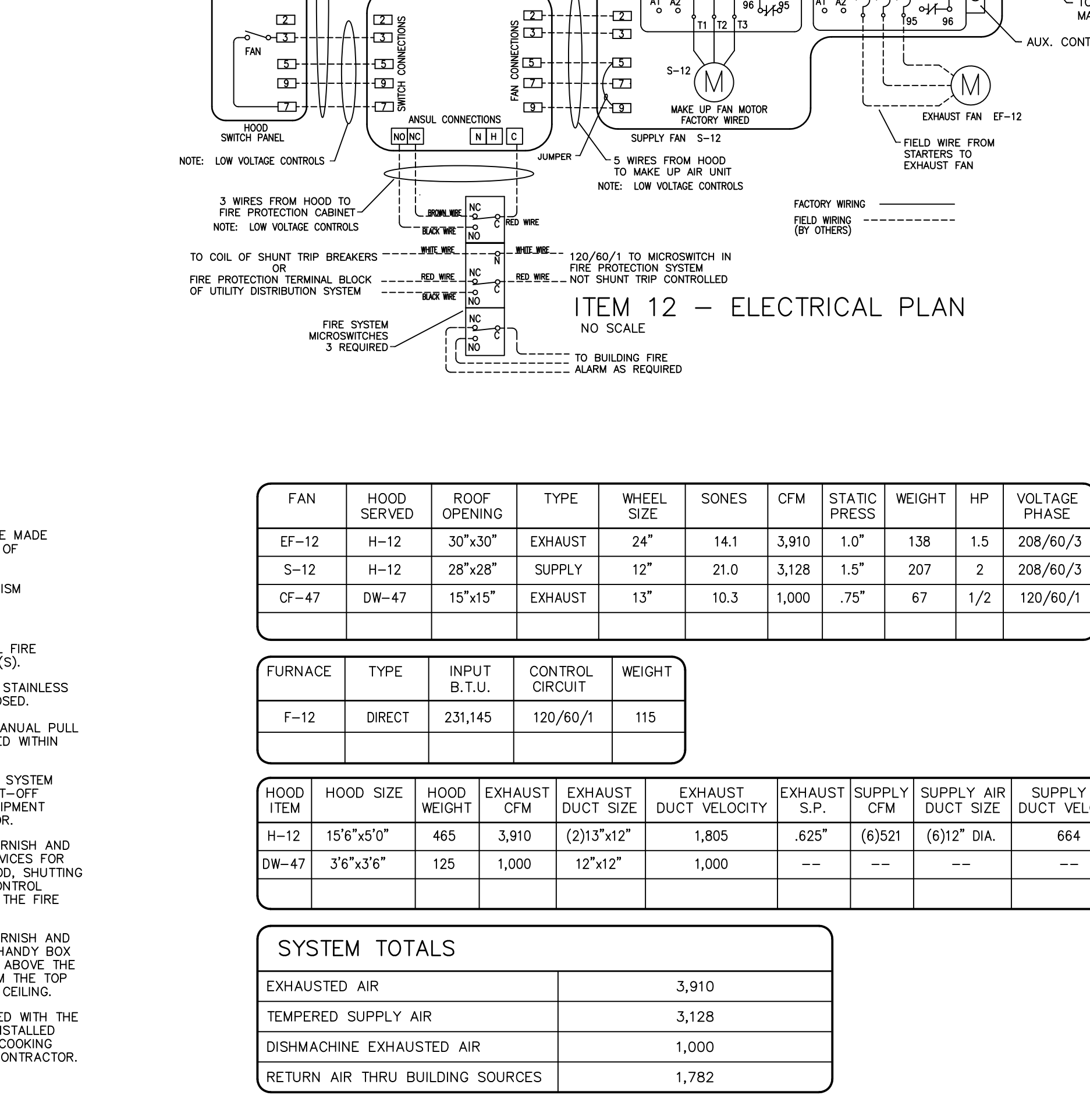
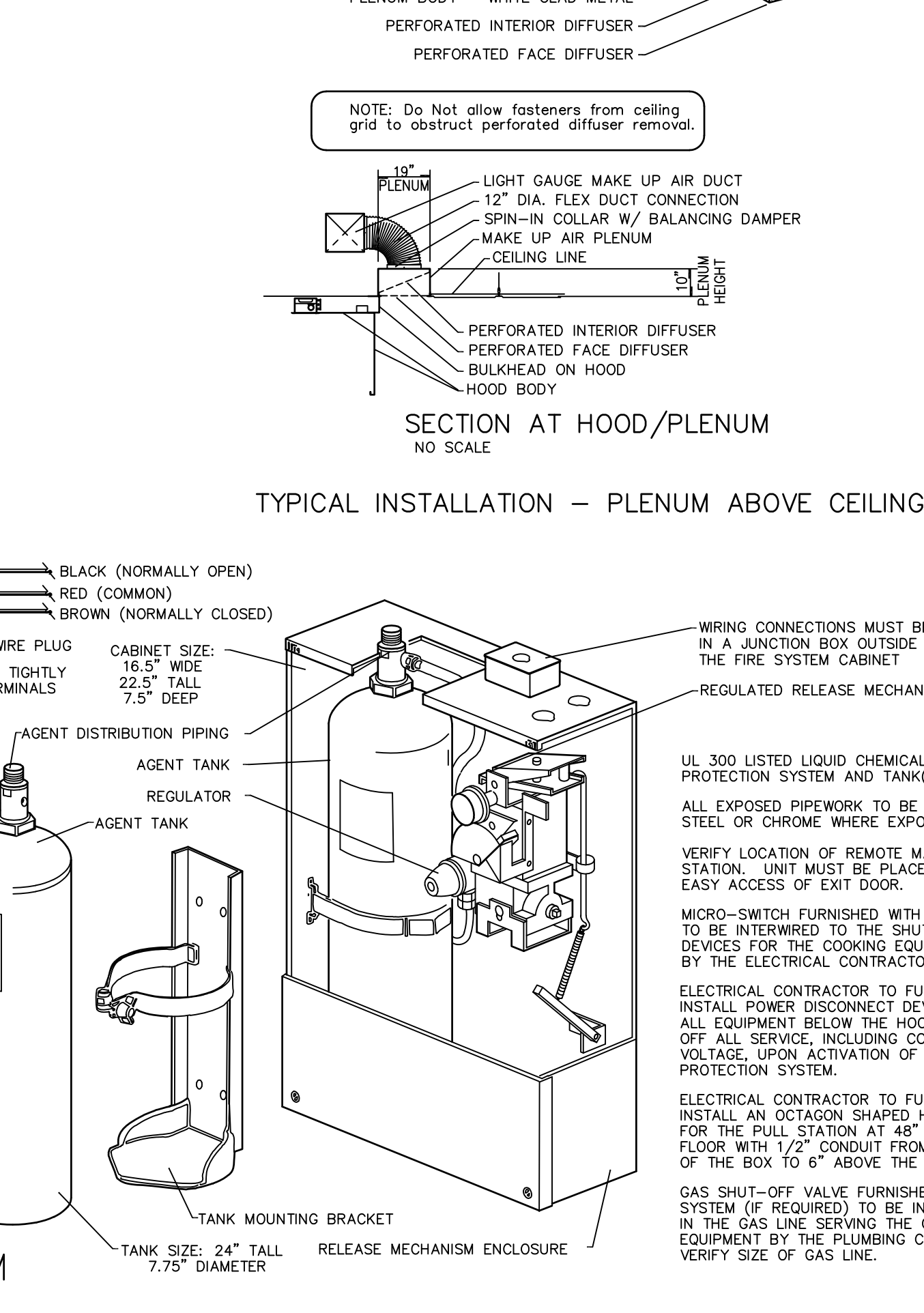
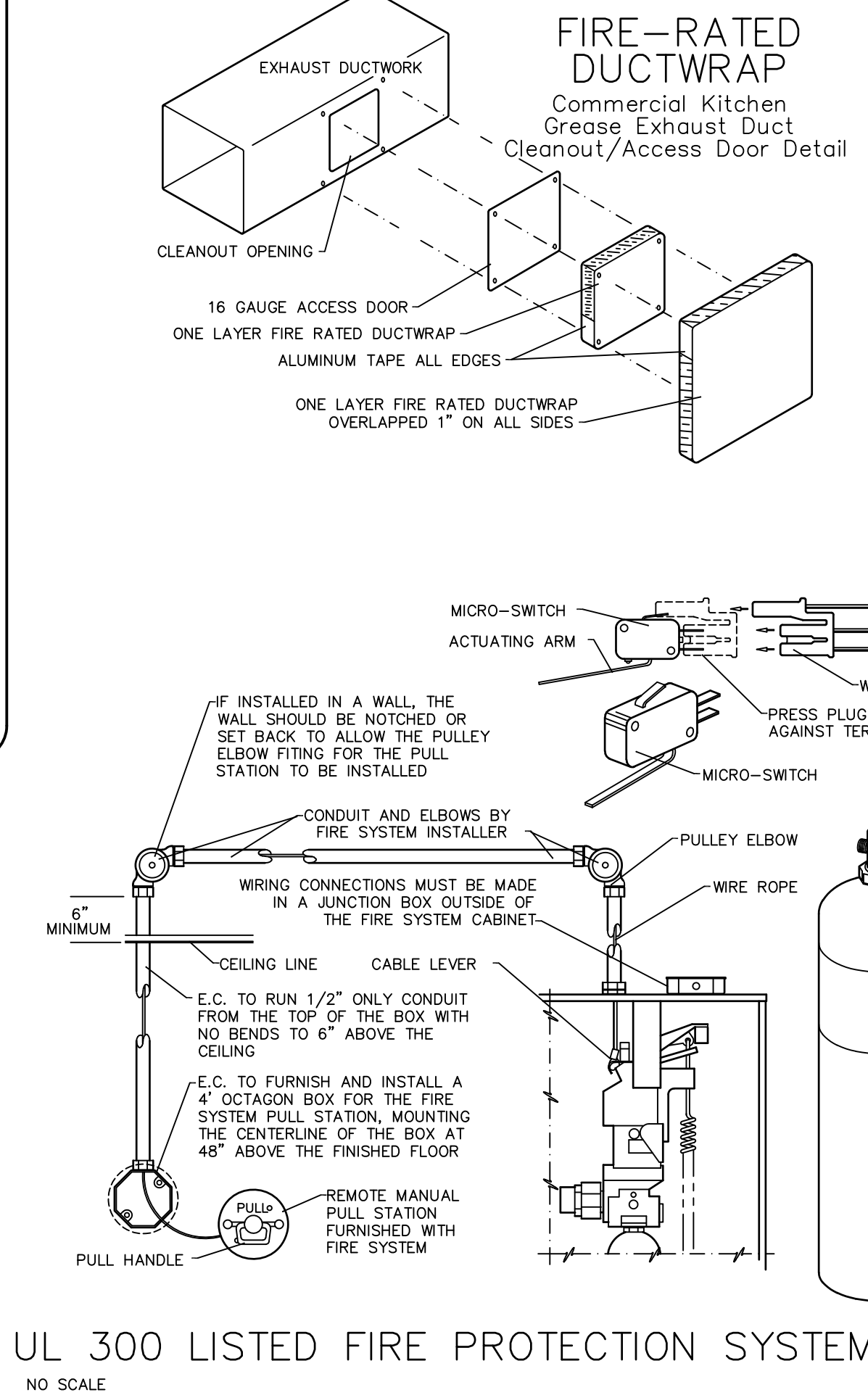
SPECIFICATIONS:

SUPPLY FAN: Fan cabinet constructed of 18 gauge galvanized steel. Forward curved double width, double inlet blower wheel. The stamped steel housing, 1" steel shaft with sealed ball bearings in rubber mounts. ODP style motor on adjustable base plate. Belt drive, cast iron pulleys with adjustable drive. Motorized back-draft damper and washable aluminum filters.

DIRECT FIRED GAS FURNACE: Modular furnace unit to be constructed to match supply fan. Entire make up air unit to be ETL Listed to ANSI Z83.4-1999 and Z83.4-2001 standards. Low emission burner of aluminum with stainless steel mixing plates. Burner rated for 30:1 turndown ratio. Adjustable profile plate allows adjustment of airflow. All heater controls are housed in a rain-tight cabinet with lift-off door. Burner ignition to be direct spark igniter. Burner operation controlled by solid state flame safety controller. Discharge temperature controlled by Modrol modulating gas valve system. Discharge temperature adjustable between 50 to 90 degrees. Intake air thermostat shuts off heater in mild weather. Standard manifold to be set for 7" WC gas pressure. Unit set for 7" WC minimum pressure at rated flow, 14" WC maximum, 1" gas supply connection.

MOTOR STARTER PANEL: Factory pre-wired motor starter panel mounted on exterior of the supply fan cabinet. Rain resistant cabinet of 18 gauge galvanized steel with a lift-off cover. Main disconnect switch for incoming 3 phase power, control power disconnect switch and terminal blocks for all control connections. Each motor is controlled by a motor starter with branch circuit fusing, adjustable overload protection and loss of phase protection. Automatic shut-down of supply fan if fire protection system discharges.

ROOF CURB AND EQUIPMENT SUPPORT RAIL: Fabricated for a flat roof. Curb constructed of 18 gauge galvanized steel, fully welded construction. Curb internally lined with full faced, rigid fiberglass insulation. Equipment support rail of same construction with adjustable cap for leveling equipment in field.



FAN	HOOD SERVED	ROOF OPENING	TYPE	WHEEL SIZE	SONES	CFM	STATIC PRESS	WEIGHT	HP	VOLTAGE PHASE
EF-12	H-12	30"x30"	EXHAUST	24"	14.1	3,910	1.0"	138	1.5	208/60/3
S-12	H-12	28"x28"	SUPPLY	12"	21.0	3,128	1.5"	207	2	208/60/3
CF-47	DW-47	15"x15"	EXHAUST	13"	10.3	1,000	.75"	67	1/2	120/60/1

FURNACE	TYPE	INPUT B.T.U.	CONTROL CIRCUIT	WEIGHT
F-12	DIRECT	231,145	120/60/1	115

HOOD ITEM	HOOD SIZE	HOOD WEIGHT	EXHAUST CFM	EXHAUST DUCT VELOCITY	EXHAUST DUCT SIZE	EXHAUST S.P.	SUPPLY CFM	SUPPLY AIR DUCT VELOCITY	SUPPLY AIR DUCT SIZE	SUPPLY S.P.
H-12	15'6"x30"	465	3,910	(21)3"x12"	1,805	.625"	(6)521	(6)12"	664	.25"
DW-47	3'6"x3'6"	125	1,000	12"x12"	1,000	---	---	---	---	---

SYSTEM TOTALS	EXHAUSTED AIR	TEMPERED SUPPLY AIR	DISHMACHINE EXHAUSTED AIR	RETURN AIR THRU BUILDING SOURCES
	3,910	3,128	1,000	1,782

Newport Primary School Renovation
1102 York Street
Newport, Kentucky 41071
Mr. Tony Watts - Superintendent

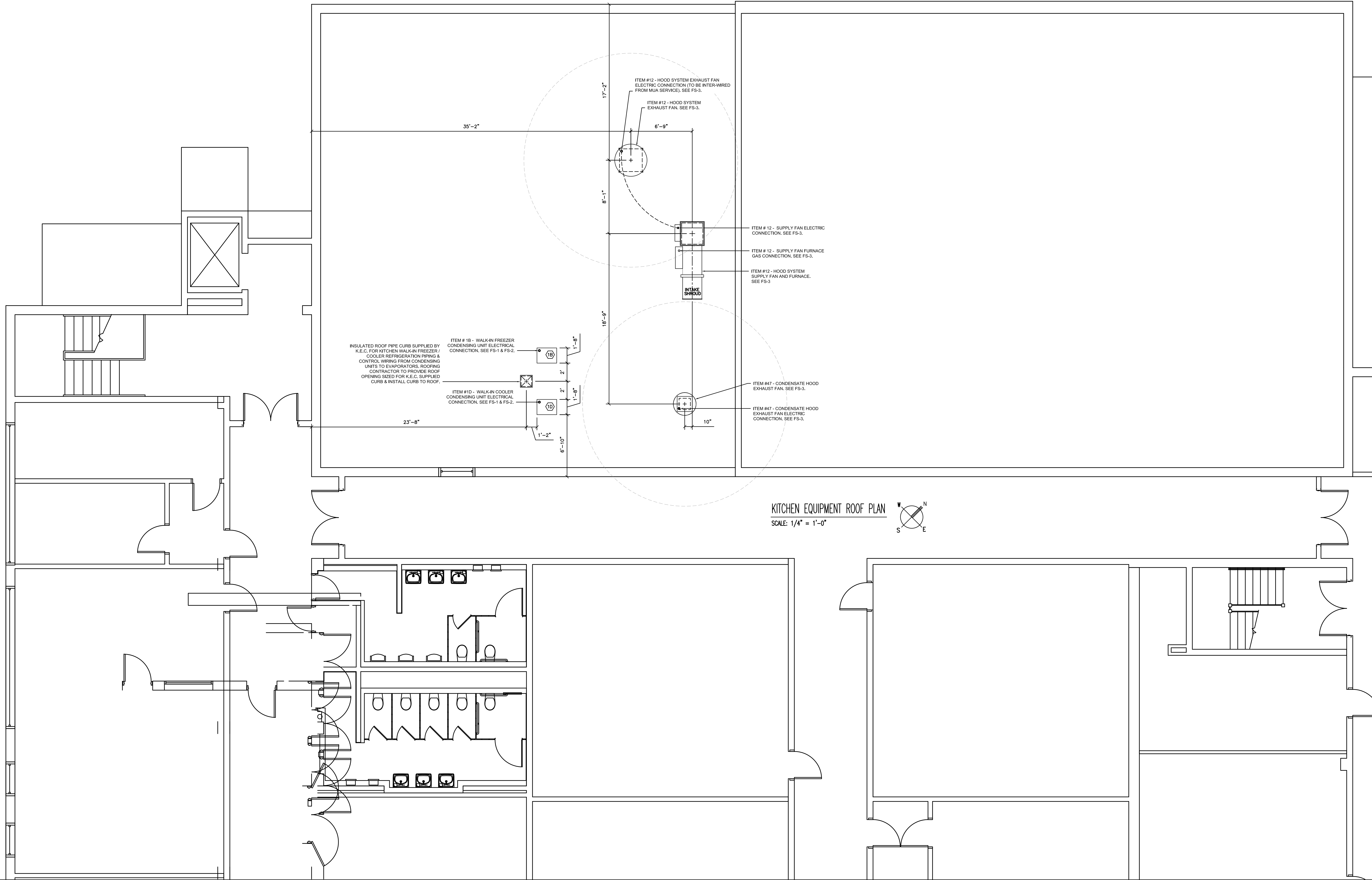
SHEET TITLE
FOOD SERVICE
EQUIPMENT HOOD
SYSTEMS DETAILS

BG #
??-???

DATE
10/20/2021

FS-3

JOBY SMITH
& ASSOCIATES, INC.
COMMERCIAL FOOD SERVICE CONSULTANTS
1 East Avenue - Moore, Ohio 46060
Phone: 335-360-2561 Fax: 335-4627189



FOODSERVICE ROOF EQUIPMENT NOTES

K.E.C. AND ROOFING CONTRACTOR TO COORDINATE WITH ONE ANOTHER; THE EXACT LOCATIONS, DIMENSIONS, AND QUANTITIES OF ALL ROOF OPENINGS REQUIRED TO ACCOMMODATE EQUIPMENT BEING PROVIDED BY THE K.E.C. SIZES & WEIGHTS MAY VARY FROM BID DOCUMENTS DEPENDING ON WHICH MANUFACTURER LISTED IN 114000 IS AWARDED THIS CONTRACT.

K.E.C. TO SUPPLY ALL ROOF CURBS AND EQUIPMENT RAILS TO ROOFING CONTRACTOR. ROOFING CONTRACTOR TO INSTALL CURBS, RAILS, AND ALL FLASHING REQUIRED.

K.E.C. TO SET EQUIPMENT ON CURBS AND RAILS.

ROOFING CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE DETAILS OF ROOF TOP EQUIPMENT WITH K.E.C. SIZES MAY VARY FROM WHAT IS SHOWN ON BID DOCUMENTS, DEPENDING ON WHICH MANUFACTURER LISTED IN 114000 IS AWARDED THIS CONTRACT.

STRUCTURAL CONTRACTOR TO FRAME ROOF OPENINGS AS NEEDED.

E.C. TO PROVIDE ALL SERVICES AT ROOF REQUIRED BY ROOFTOP EQUIPMENT. COORDINATE ELECTRICAL REQUIREMENTS WITH K.E.C.

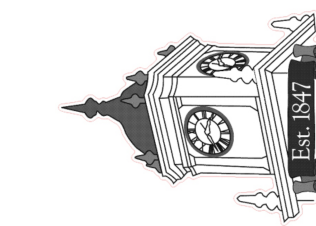


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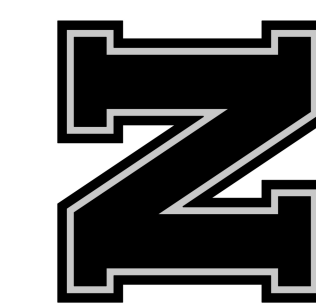
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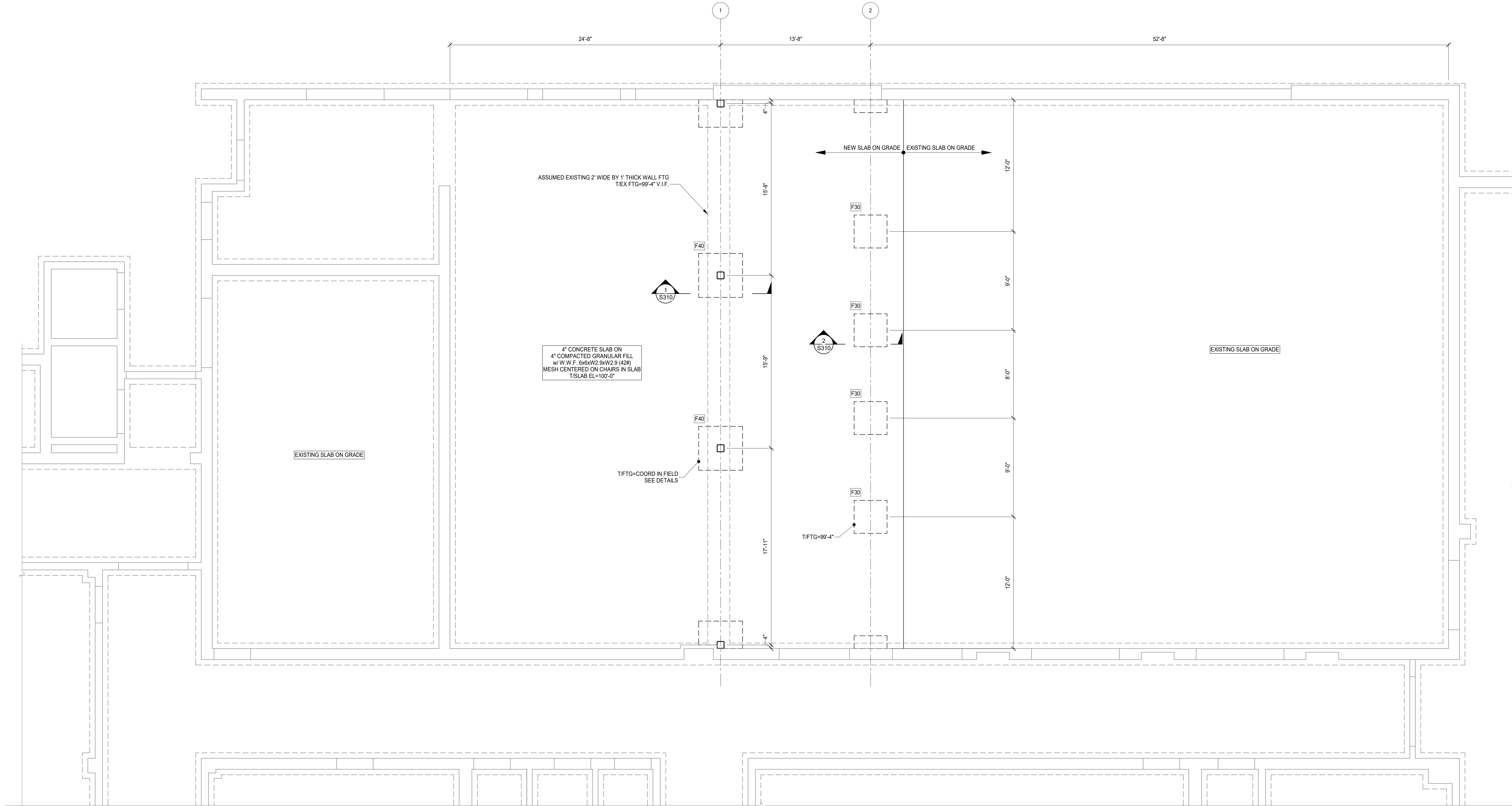
New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:
Newport Primary School
1102 York Street
Newport, Kentucky 41071
Newport Independent Board of Education
Mr. Tony Watts, Superintendent



SHEET TITLE
**FOUNDATION
PLAN**

BG #
22-056
AGE #
21100.44
DATE
10/26/2021

S110



FOOTING SCHEDULE		
MARK	DESCRIPTION	T/FTG
F30	3'-0"x3'-0"x1'-0" CONC FOOTING w/(3) #5's EACH WAY BOTTOM	SEE PLAN
F40	4'-0"x4'-0"x1'-0" CONC FOOTING w/(4) #5's EACH WAY BOTTOM	SEE PLAN

FOUNDATION PLAN
SCALE 1/4" = 1'-0"



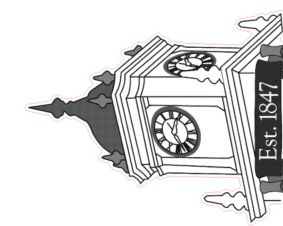
PLAN NOTES:
1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.



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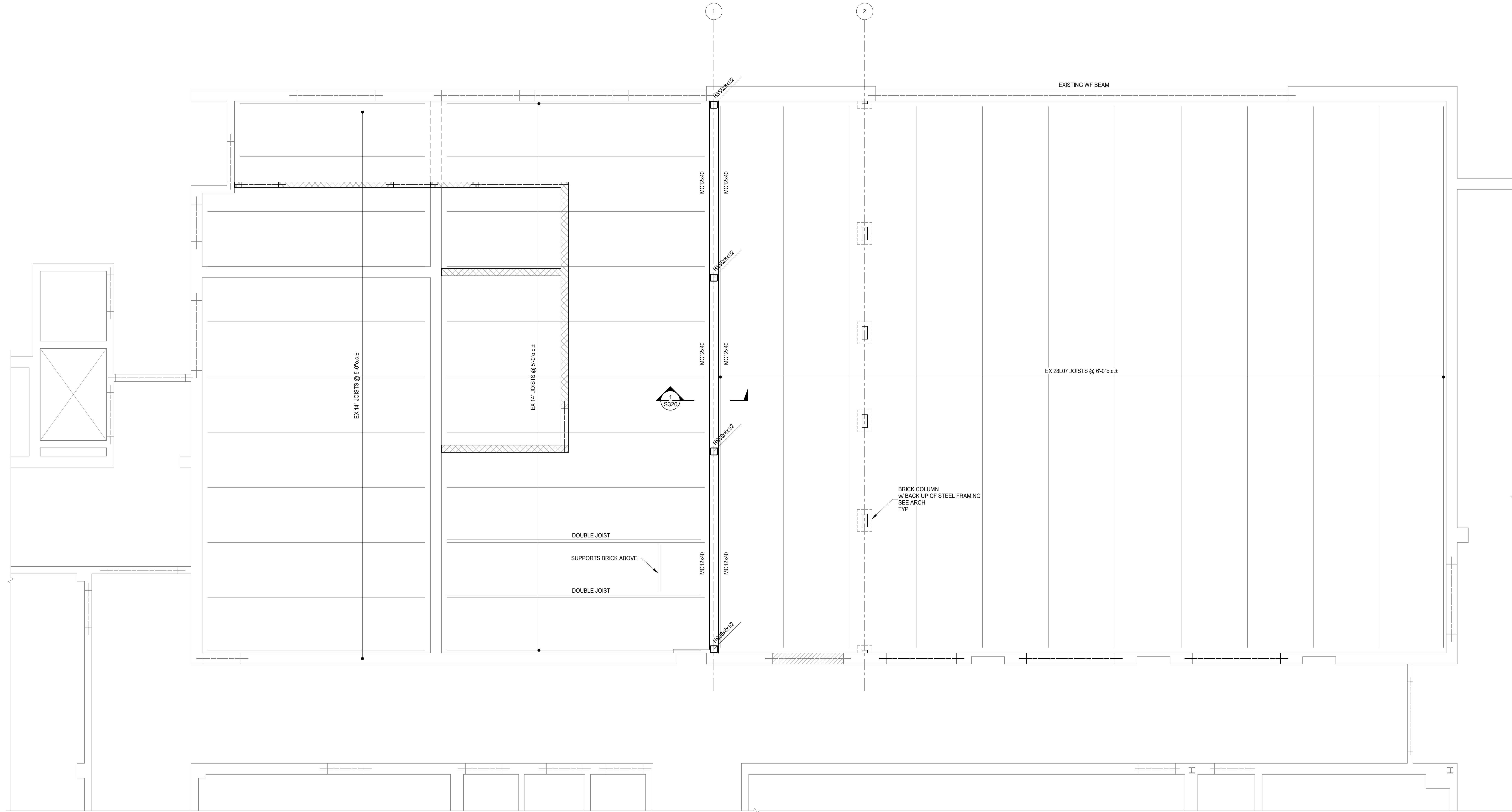
SHEET TITLE
**ROOF
FRAMING
PLAN**

BG #
22-056

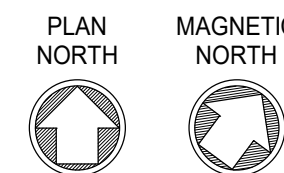
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DATE
10/26/2021

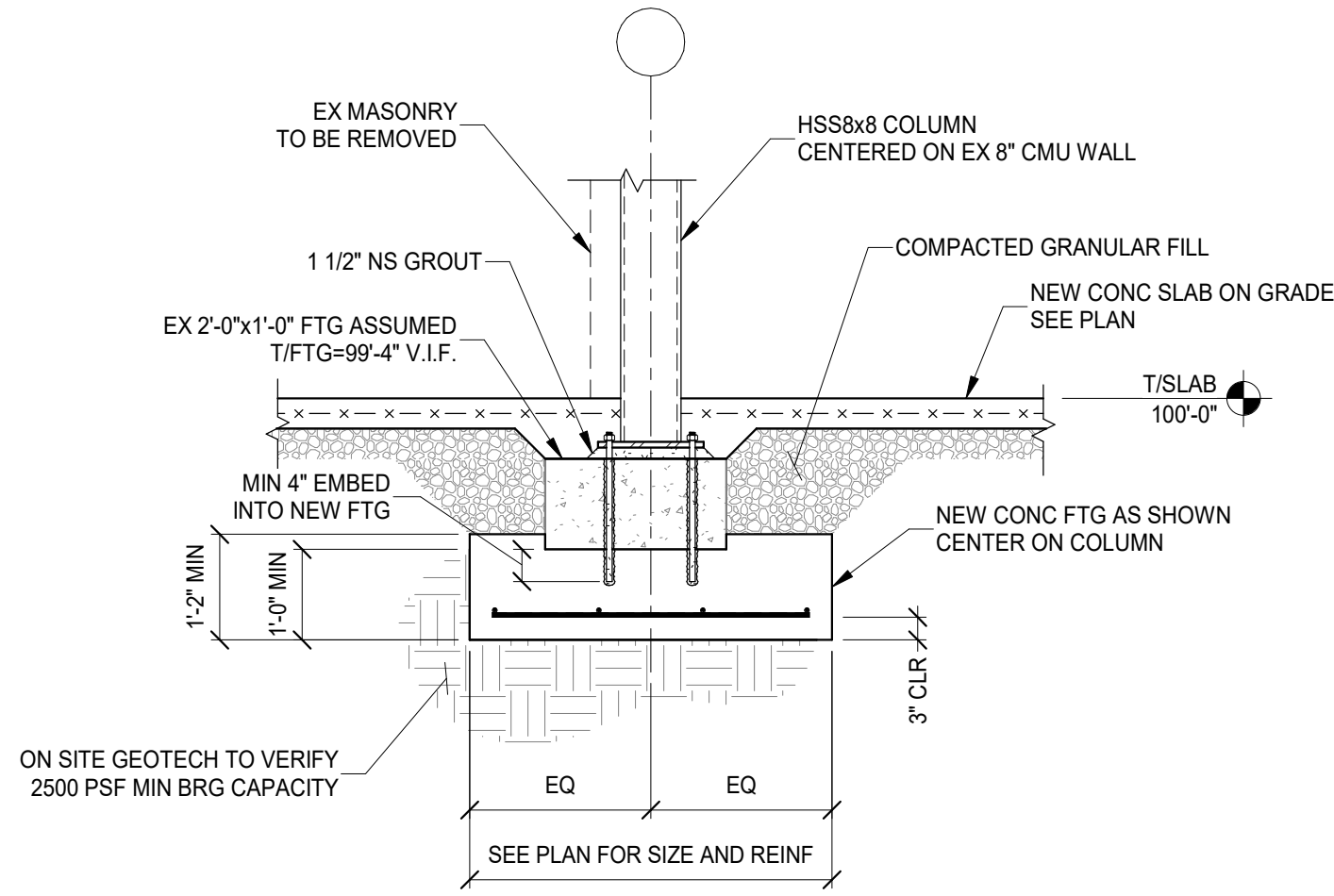
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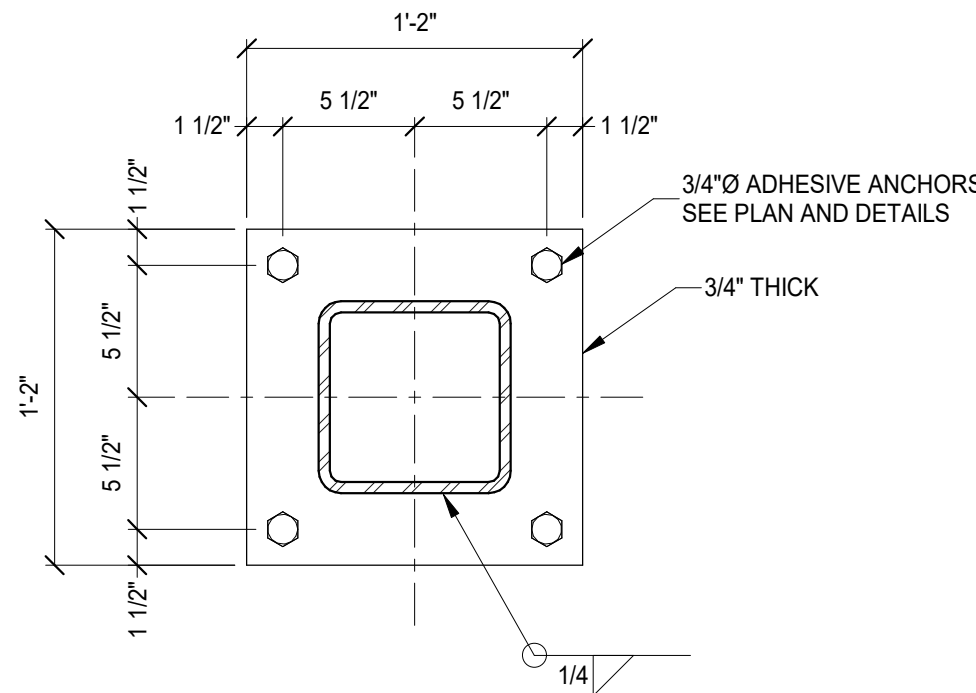
ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"



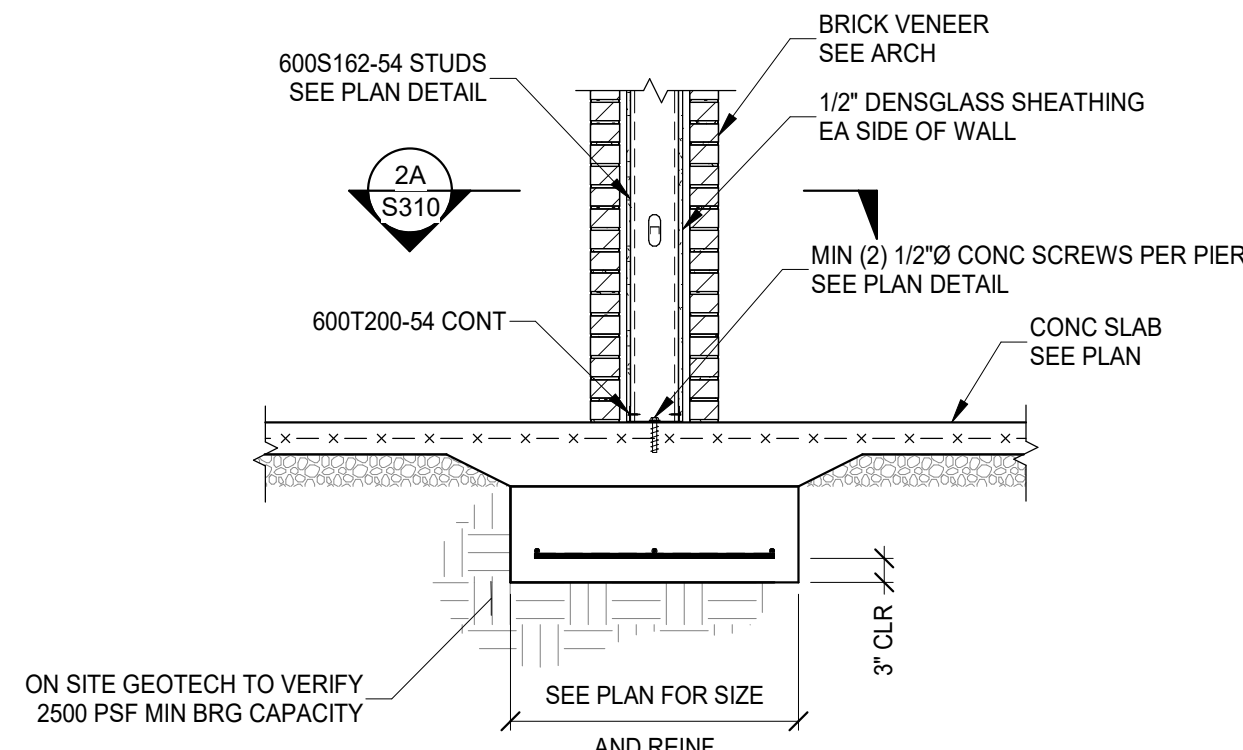
PLAN NOTES:
1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. ► = MOMENT CONNECTION.



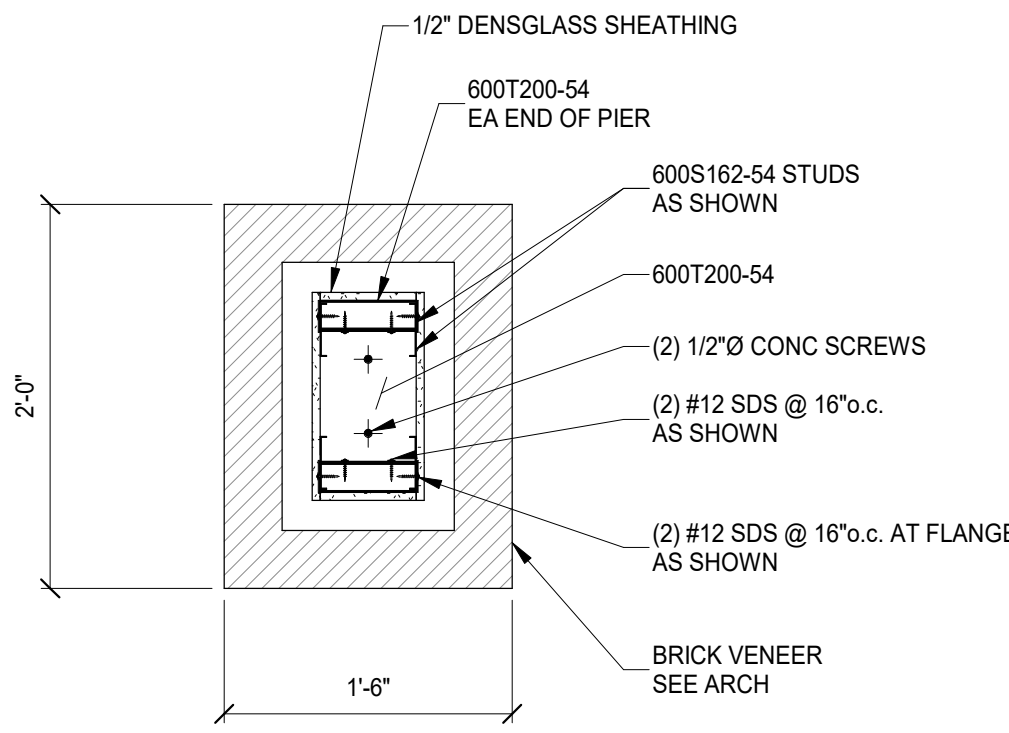
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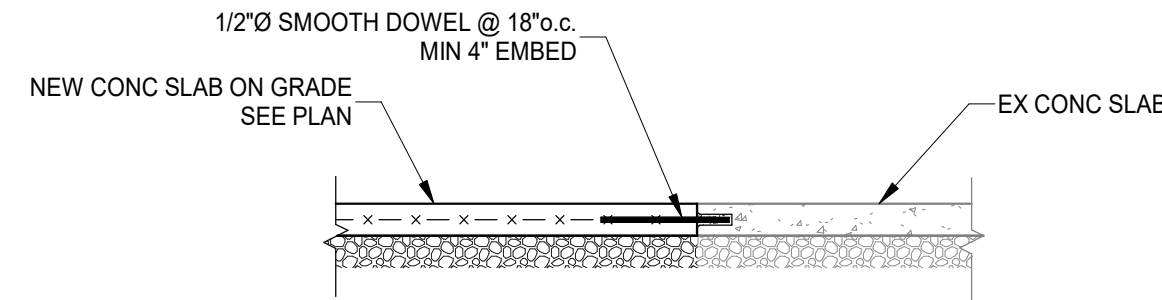
HSS8x8 BASE PLATE DETAIL
SCALE 1 1/2" = 1'-0"



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



PLAN DETAIL 2A
SCALE 1" = 1'-0"



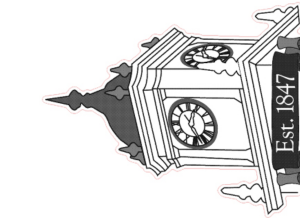
TYPICAL SLAB JOINT DETAIL
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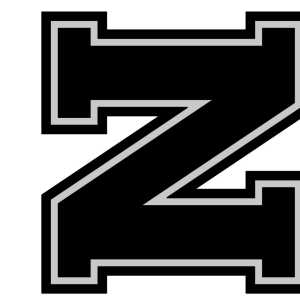
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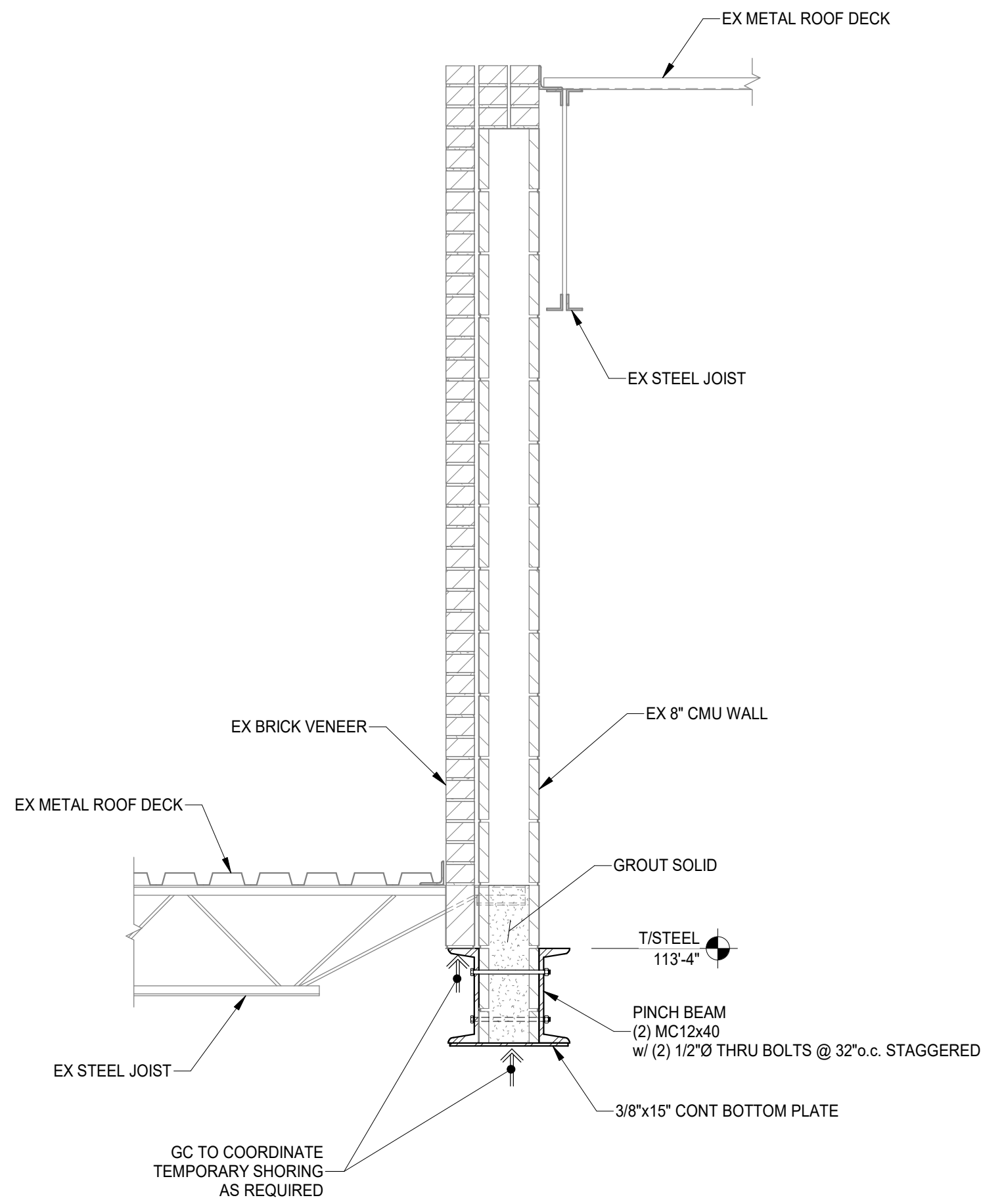
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FOUNDATION
SECTIONS

BG #
22-056

AGE #
21100.44

DATE
10/26/2021

S310

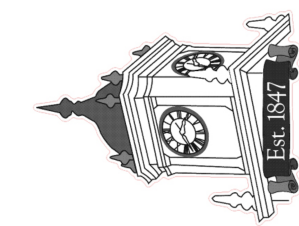


SECTION 1
SCALE 3/4" = 1'-0" S320

Structural Consultants
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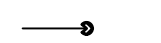
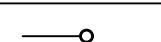
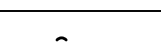
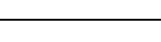
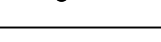
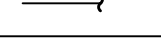






































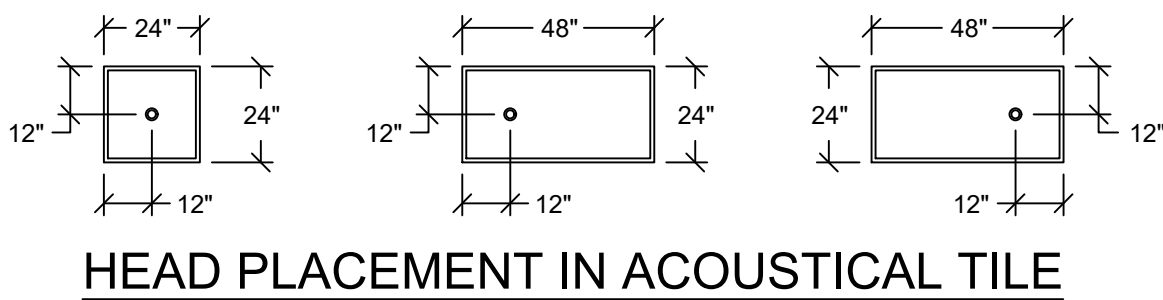
SHEET TITLE
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10/26/2021

S320


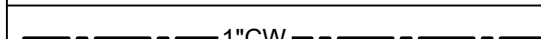
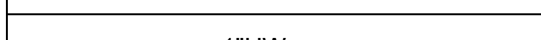
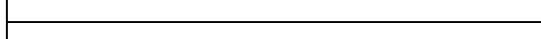
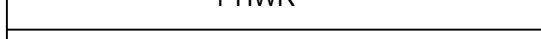





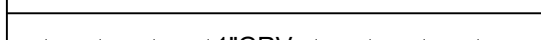
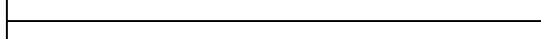
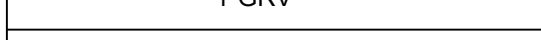
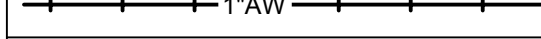



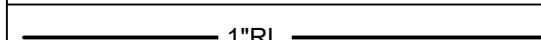

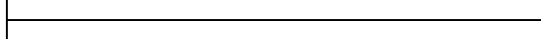
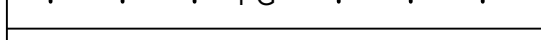
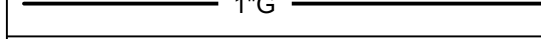
PLUMBING/FIRE PROTECTION LEGEND

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	PIPE DOWN
	PIPE UP
	TEE DOWN
	TEE UP
	CONTINUATION
	CAP
	HAMMER ARRESTOR
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	ELECTRIC CONTROL VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	GATE VALVE
	PLUG VALVE
	REDUCER
	UNION
	VALVE IN VERTICAL
	PRESSURE GAUGE
	STRAINER
	FLOW INDICATOR
	CLEANOUT
	FLOOR CLEANOUT
	THERMOMETER
	RECIRC. BALANCING STATION
	FLOW SWITCH
	TAMPER SWITCH ON VALVE
	PUMP, INLINE
	SUMP PUMP
	GAS METER
	WATER METER
	THRUST BLOCK
	GAS REGULATOR
	FLOOR DRAIN
	P-TRAP
	FLOOR DRAIN GRATE
	FIRE PROTECTION RISER
	FIRE PROTECTION CONNECTION (DOUBLE)
	FIRE PROTECTION CONNECTION (SINGLE)
	SHEET NOTE
	DEMOLITION NOTE
	CONNECT NEW TO EXISTING
	EXTENT OF DEMOLITION
	EQUIPMENT TAG
	RISER IDENTIFICATION TAG



ABBREVIATIONS	
ADP	ACID DILUTION PIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	AIR GAP
AV	ACID VENT
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CFH	CUBIC FEET/HOUR
CI	CAST IRON
CRD	COMBINATION ROOF DRAIN
CO	CLEANOUT
CON	CONDENSATE
CW	COLD WATER
D	DISPOSAL
DD	DECK DRAIN
DI	DUCTILE IRON
DF	DRINKING FOUNTAIN
DSN	DOWNSPOUT NOZZLE
ECO	EXTERIOR CLEANOUT
EEW	EMERGENCY EYE WASH
ESEW	EMERGENCY SHOWER / EYE WASH
ET	EXPANSION TANK
ETP	ELECTRONIC TRAP PRIMER
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FS	FLOW SWITCH
G	NATURAL GAS
GPM	GALLONS PER MINUTE
GR	GREASE
GRV	GREASE VENT
GT	GREASE TRAP
GWH	GAS WATER HEATER
HA	HAMMER ARRESTOR
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
I.E.	INVERT ELEVATION
IMB	ICE MAKER BOX
L/LAV	LAVATORY
LPG	LIQUID PETROLEUM GAS
LT	LAUNDRY TUB
MA	MEDICAL AIR
MB	MOP BASIN
MBH	1,000 BTU
MG	MEDICAL GAS
MH	MANHOLE
MIN	MINIMUM
MS	MOP SINK
N2	NITROGEN
O2	OXYGEN
OR	OPEN RECEPTACLE
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW ROOF LEADER
OVS	OIL WATER SEPARATOR
PD	PUMP DISCHARGE
PDI	PLUMBING DRAINAGE INSTITUTE

ABBREVIATIONS CONT.	
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	PLASTER TRAP
RBS	RECIRC. BALANCE STATION
RD	ROOF DRAIN
RL	ROOF LEADER
RP	RECIRCULATION PUMP
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SINK
SAN	SANITARY
SCO	STACK CLEANOUT
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORAGE TANK
STM	STORM
TB	THRUST BLOCK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE
T&P	TEMPERATURE & PRESSURE
TS	TAMPER SWITCH
U	URINAL
UT	UTILITY TUB
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WB	WASHER BOX
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WS	WASH STATION
WS	WATER SOFTENER
X	EXISTING

PLUMBING LINETYPES	
SYMBOL	DESCRIPTION
	UNDER SLAB COLD WATER PIPING WITH SIZE
	COLD WATER PIPING WITH SIZE
	HOT WATER PIPING WITH SIZE
	HOT WATER RETURN PIPING WITH SIZE
	UNDER SLAB SANITARY PIPING WITH SIZE
	SANITARY PIPING WITH SIZE
	UNDER SLAB VENT PIPING WITH SIZE
	VENT PIPING WITH SIZE
	UNDER SLAB GREASE PIPING WITH SIZE
	GREASE VENT PIPING WITH SIZE
	UNDER SLAB ACID WASTE PIPING WITH SIZE
	ACID WASTE PIPING WITH SIZE
	UNDER SLAB ACID VENT PIPING WITH SIZE
	ACID VENT PIPING WITH SIZE
	ROOF LEADER PIPING WITH SIZE
	UNDER SLAB STORM WITH SIZE
	UNDER SLAB GAS PIPING WITH SIZE (SLEEVED)
	GAS PIPING WITH SIZE
	TEMPERED WATER PIPING WITH SIZE
	FIRE PROTECTION PIPE
	COMPRESSED AIR PIPING WITH SIZE
	VACUUM PIPING WITH SIZE

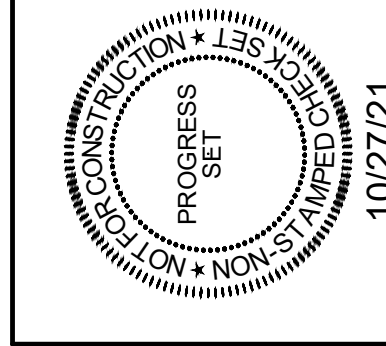
- GENERAL NOTES - PLUMBING:**
- A. CONSTRUCTION PHASING: ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE GENERAL CONTRACTOR. OTHER TRADES, THE OWNER, RELATED UTILITY COMPANIES SHALL COINCIDE WITH CONSTRUCTION PHASING PER THE ARCHITECTURAL DOCUMENTS. CONTACT THE ARCHITECT/ENGINEER IN THE EVENT OF A CONFLICT.
- B. NEW UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW UTILITY SERVICES AND COSTS UNDER THIS CONTRACT. COORDINATE AND SCHEDULE ALL RELATED WORK WITH THE UTILITY COMPANIES.
- C. MAINTAIN SITE UTILITIES: THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SITE UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE ANY OUTAGE. SCHEDULED SHUT-DOWNS SHALL REQUIRE 48 HOUR PRIOR NOTIFICATION WITH OWNER. COORDINATE ALL RELATED WORK WITH THE OWNER AND THE UTILITY COMPANIES AS REQUIRED.
- D. VERIFY UTILITIES: FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHERE REQUIRED FOR CONNECTIONS OF NEW WORK PRIOR TO CONSTRUCTION AND FABRICATION. DOCUMENT ON THE AS-BUILT DRAWINGS. THE TYPE, SIZE, MATERIAL, LOCATION AND INVERT ELEVATIONS OF ALL UTILITIES ENCOUNTERED. COORDINATE ALL RELATED WORK WITH ALL PARTIES INVOLVED. CONTACT THE ENGINEER IN THE EVENT OF A CONFLICT.
- E. CONTACT B.U.D.: THE EXISTING UTILITIES, EQUIPMENT, AND PIPING SHOWN ON THESE DRAWINGS ARE FROM RECORD DRAWINGS AND VISUAL INSPECTION OF THE SITE. THE NUMBER, LOCATION, SIZE, AND TYPE OF UTILITIES SHOWN ARE APPROXIMATE, AND THERE MAY BE OTHER UTILITIES NOT SHOWN. THE CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITY COMPANIES AND KENTUCKY B.U.D. PRIOR TO BEGINNING EXCAVATION.
- F. PERMITS, TESTING, AND INSPECTIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, TESTING AND SCHEDULES INSPECTIONS.
- G. REMOVAL OF EXISTING UTILITIES: REMOVE UNUSED/ABANDONED EQUIPMENT, PIPING, ETC. AS NECESSARY TO INSTALL THE NEW WORK. CAP THE ENDS OF ALL LINES AND ABANDONED IN PLACE.
- H. TEMPORARY CONSTRUCTION HEAT: PROVIDE TEMPORARY HEAT IN CONSTRUCTION AREAS AS REQUIRED TO PREVENT FREEZING OF WATER PIPING DURING CONSTRUCTION.
- I. PATCHING AND REPAIRING: PATCH AND REPAIR ALL AREAS WHERE WALLS, SLABS, PAVEMENT, CURBS, VEGETATION AND MATERIALS HAVE BEEN CUT, REMOVED, DISTURBED AND OR MODIFIED. MATCH EXISTING MATERIALS, RATINGS, AND FINISHES.
- J. CUTTING EXISTING MATERIALS: CUTTING OF EXISTING PAVEMENT, SLABS, CONCRETE MASONRY, WALLS, ETC. SHALL BE SAW-CUT OR CORE DRILLED. NO "HAMMER DRILLING" WILL BE ALLOWED.
- K. ROOFING PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES, THE AMERICAN ROOFING COUNCIL, AND MAINTAIN ALL WARRANTIES.
- L. WALL PENETRATIONS: SEAL ALL PIPING PENETRATIONS THROUGH EXTERIOR WALLS WITH SILICONE SEALANT AS REQUIRED TO MAKE WATER/WEATHER TIGHT.
- M. EXISTING WALL OPENINGS: EXISTING OPENINGS IN WALLS THAT ARE NOT BEING RE-USED SHALL BE PATCHED/CLOSED BY THE GENERAL CONTRACTOR.
- N. NEW OPENINGS: NEW OPENINGS FOR PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- O. FIRE AND SMOKE STOPPING: ALL PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- P. INSULATION: INSULATE ALL DOMESTIC HOT/COLD WATER, RECIRCULATION PIPING, AND ROOF LEADERS.
- Q. HAMMER ARRESTOR: ALL HAMMER ARRESTORS SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA SHALL BE PROVIDED AND INSTALLED AS SHOWN ON BOTH.
- R. VALVES: ALL VALVES SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA, SHALL BE PROVIDED AND INSTALLED AS IF SHOWN ON BOTH.
- S. ELECTRICAL PANELS AND EQUIPMENT: PLUMBING PIPING, SYSTEMS, AND EQUIPMENT SHALL BE INSTALLED TO MAINTAIN THE DEDICATED WORKING/ELECTRICAL SPACE ABOVE, BELOW, AND IN FRONT OF ELECTRICAL PANELS AND EQUIPMENT PER THE REQUIREMENTS OF THE N.E.C. (NATIONAL ELECTRIC CODE).

New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:
Newport Primary School
1102 York Street
Newport, Kentucky 41071
Newport Independent Board of Education
Mr. Tony Watts, Superintendent

SHEET TITLE
PLUMBING
LEGEND AND
GENERAL NOTES

BG #
22-056
REH #
149-520
DATE
10/27/2021

P0.1

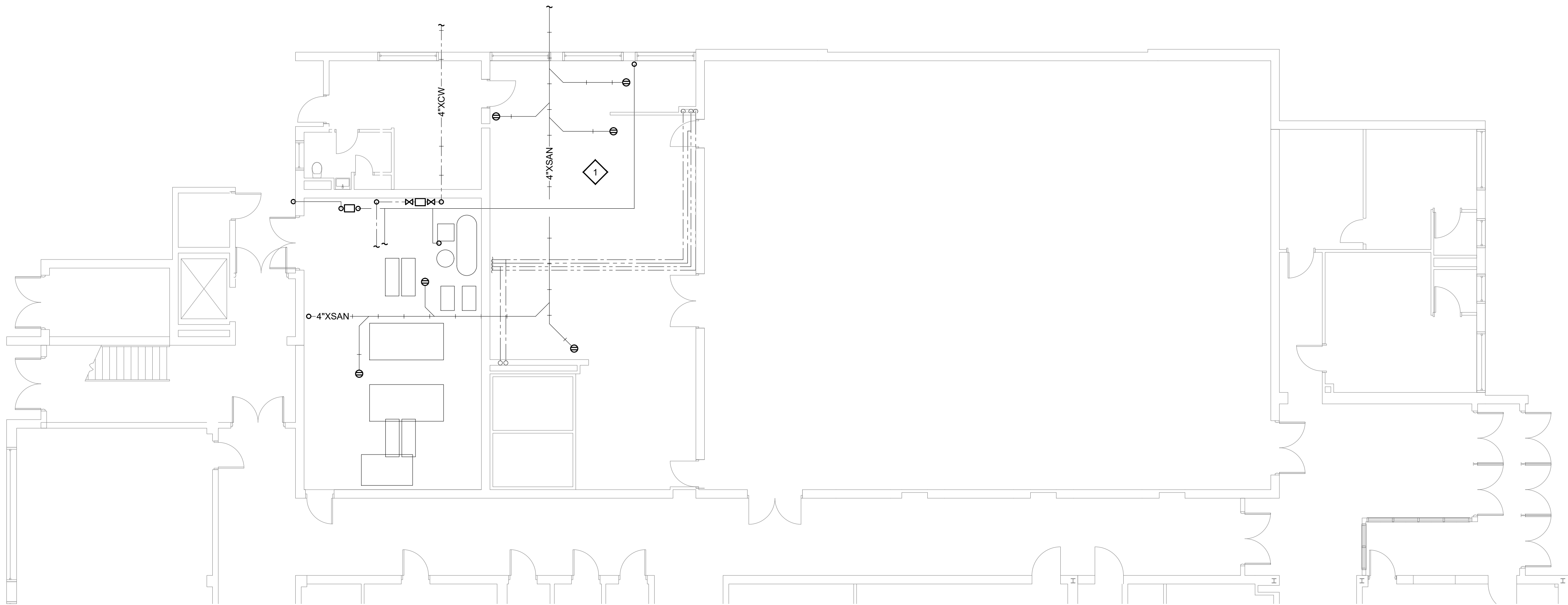


GENERAL NOTES:

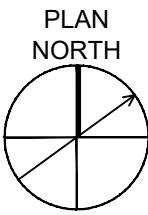
A. REFER TO SHEET P0.1 FOR GENERAL NOTES.

SHEET KEYNOTES:

1. REMOVE ALL FIXTURES AND ASSOCIATED PIPING INCLUDING UNDERSLAB BRANCH PIPING. FLOOR DRAINS FROM MECHANICAL ROOM AND ASSOCIATED PIPING SHALL REMAIN ACTIVE.



1 PARTIAL FIRST FLOOR - PLUMBING DEMOLITION
SCALE: 1/8"=1'-0"

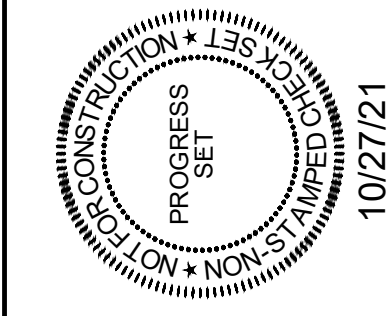


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Newport Independent Board of Education
Mr. Tony Watts, Superintendent

SHEET TITLE
PARTIAL
FIRST FLOOR
PLUMBING
DEMOLITION

BG #
22-056
REH #
149-520
DATE
10/27/2021

PD1.1

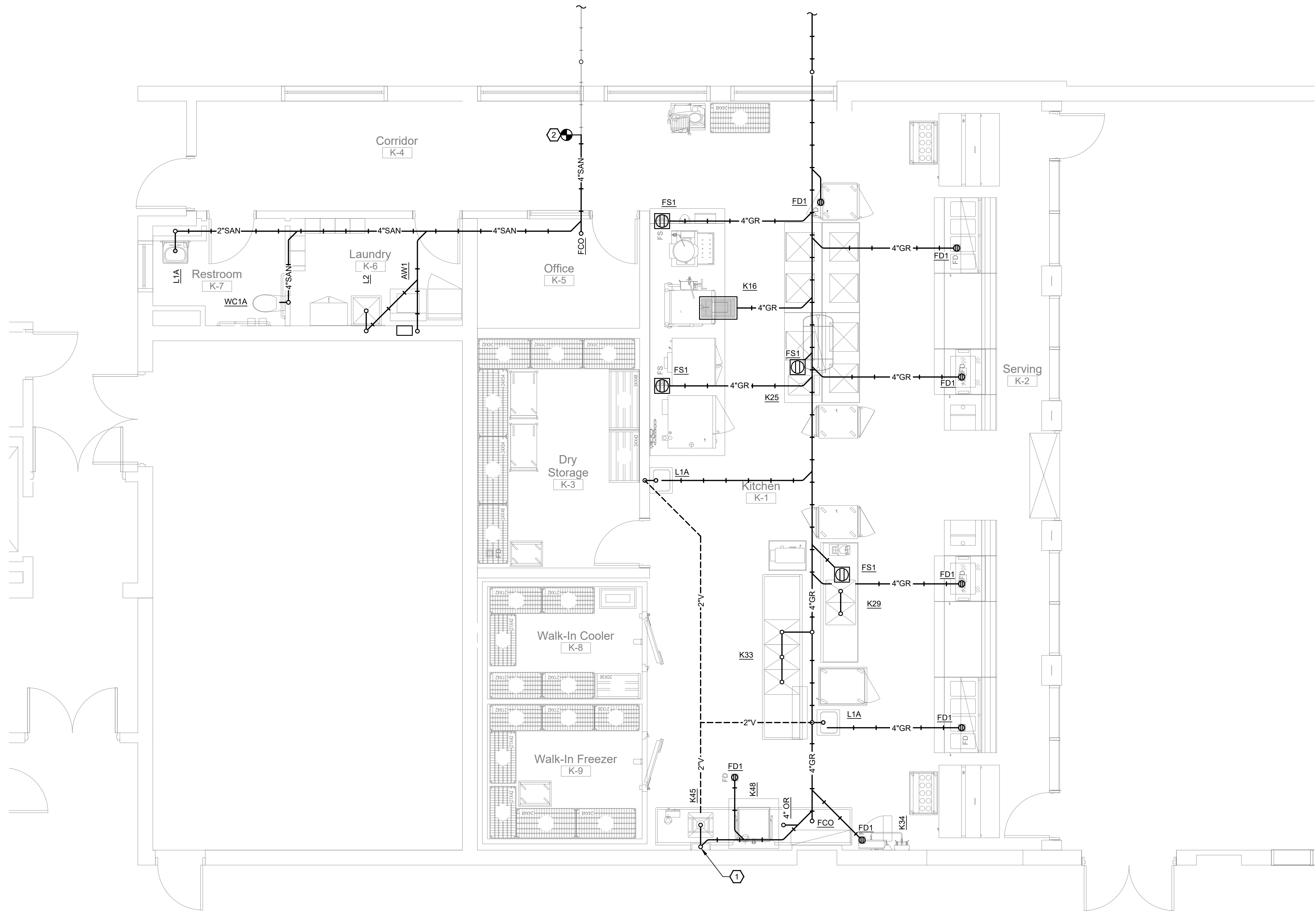


GENERAL NOTES:

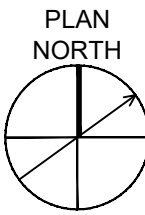
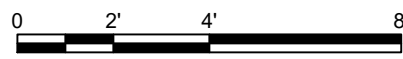
A. REFER TO SHEET P0.1 FOR GENERAL NOTES.

SHEET KEYNOTES:

- 4" VENT UP THROUGH ROOF .
- CONNECT NEW 4" SANITARY TO EXISTING 4" SANITARY APPROXIMATELY HERE. THIS LOCATION WAS OBTAINED FROM "AS-BUILT" DRAWINGS AND MUST BE FIELD VERIFIED.



1 PARTIAL FIRST FLOOR - SANITARY SEWER
SCALE: 1/4"=1'-0"

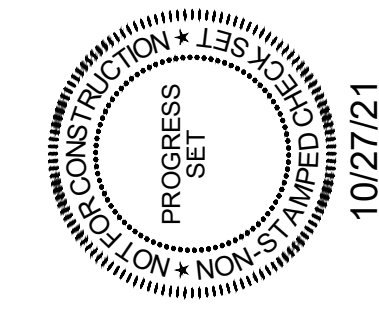


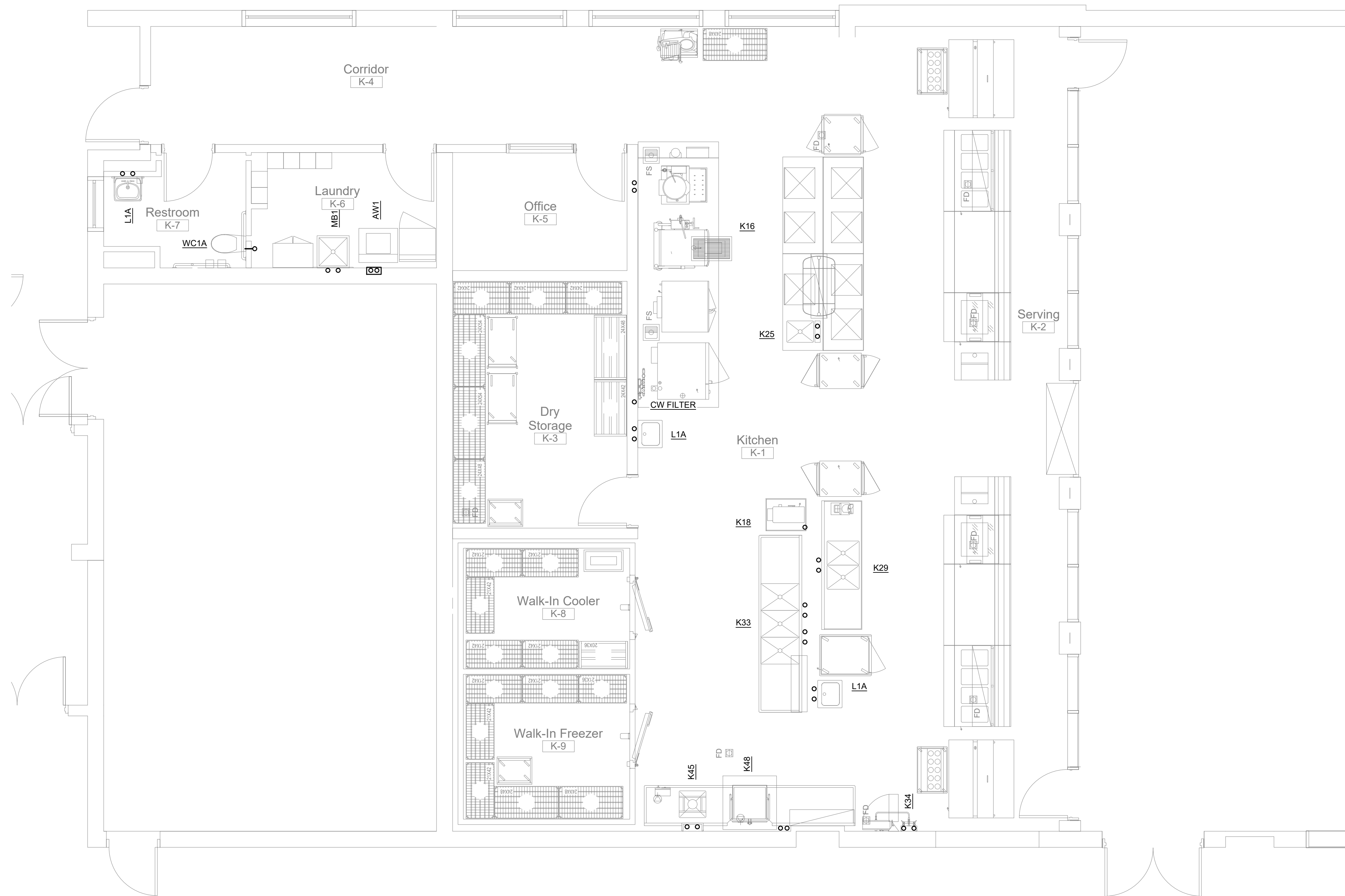
New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:
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1102 York Street
Newport, Kentucky 41071
Newport Independent Board of Education
Mr. Tony Watts, Superintendent

SHEET TITLE
PARTIAL
FIRST FLOOR
SANITARY SEWER

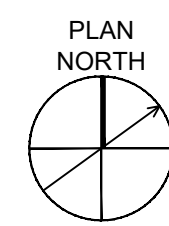
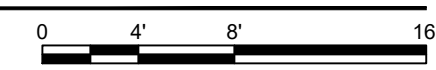
BG #
22-056
REH #
149-520
DATE
10/27/2021

P1.1





1 PARTIAL FIRST FLOOR - DOMESTIC WATER
SCALE: 1/8"=1'-0"

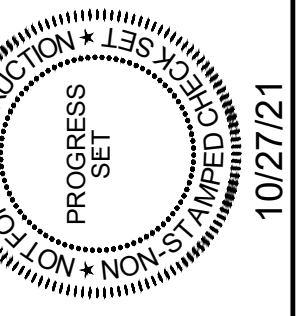


GENERAL NOTES:

A. REFER TO SHEET P0.1 FOR GENERAL NOTES.

SHEET KEYNOTES:

- KEYNOTES
- XXX
- XXX
- XXX
- XXX

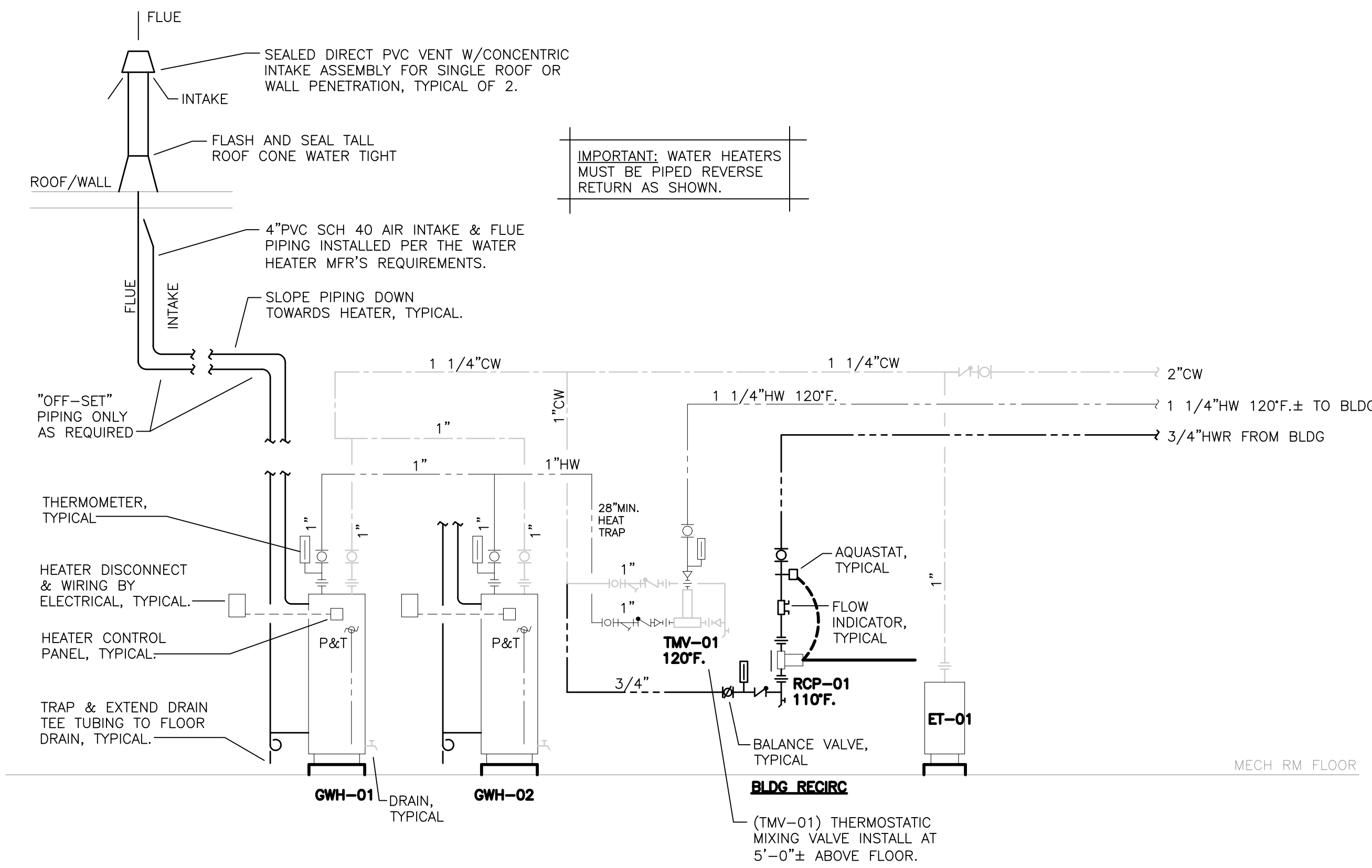


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Newport, Kentucky 41071
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Mr. Tony Watts, Superintendent

SHEET TITLE
PARTIAL
FIRST FLOOR
DOMESTIC WATER

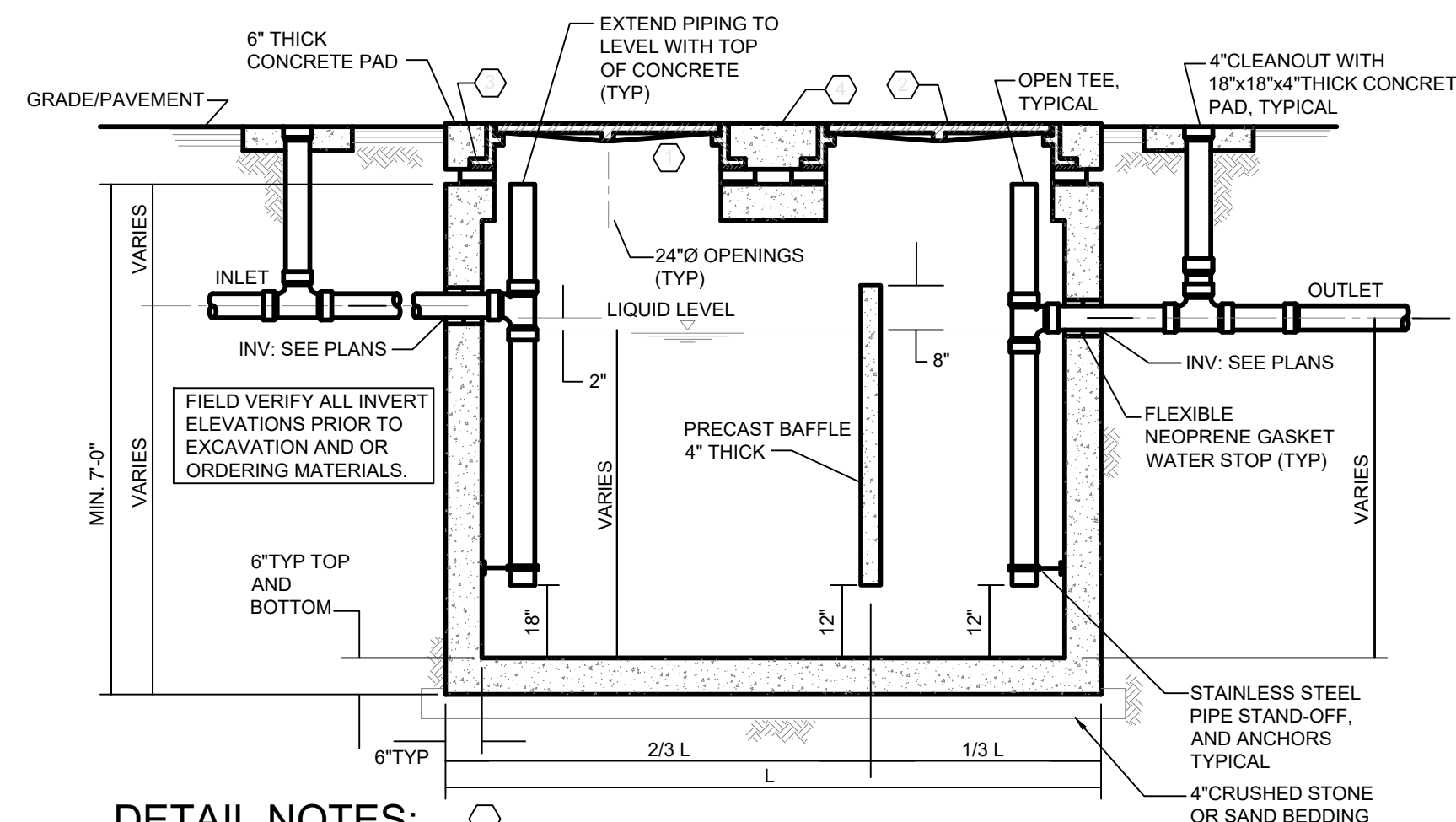
BG #
22-056
REH #
149-520
DATE
10/27/2021

P2.1



- TYPICAL NOTES FOR WATER HEATERS:**
1. INSTALL LINE SIZE BALL VALVES, STRAINERS, AND CHECK VALVES IN THE INLET PIPING TO EACH TMV (THERMOSTATIC MIXING VALVE) IN ADDITION TO INTEGRAL CHECK STOPS PROVIDED WITH MIXING VALVES.
 2. PROVIDE A DETAILED PIPING DIAGRAM FROM MFR FOR EACH TMV SUBMITTED FOR SHOP DRAWING APPROVAL.
 3. INSTALL DIELECTRIC PIPE NIPPLES WITH UNIONS AT ALL WATER CONNECTIONS TO WATER HEATERS.
 4. INSTALL 3/4\"
 5. SET WATER HEATER CONTROLS TO STORE WATER AT 140°F.
 6. INSTALL WATER HEATERS AND EXPANSION TANK ON 4\"
 7. LABEL EACH RECIRC PUMP, ZONE SUPPLY PIPING, AND RECIRC PIPING PER THE SPECIFICATIONS.

PIPING SCHEMATIC FOR DOMESTIC WATER HEATERS - GWH-01 & 02
NO SCALE

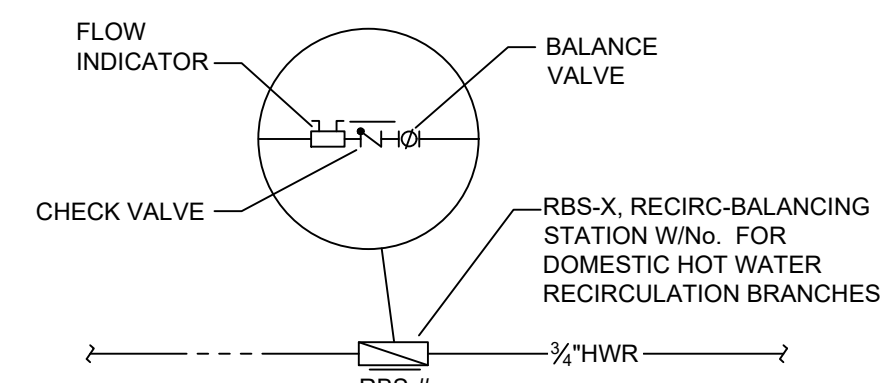


- DETAIL NOTES:**
1. 24\"
 2. HEAVY DUTY MANHOLE FRAME W/ 24\"
 3. SET MANHOLE FRAME IN BUTYL MASTIC, CAP WITH CONCRETE GROUT TO TOP OF RCP, TYPICAL.
 4. INSTALL GREASE TRAP LEVEL. INSTALL MANHOLES SO THAT PAVEMENT/GRADE SLOPES AWAY FROM MANHOLES AT 1/8\"
- SPECIFICATIONS:**
- DESIGN CRITERIA SHALL BE HS-20 LOADING. PIPE CLEANOUT TEE SHALL BE THE SAME SIZE AS THE PIPE AND BE WITHIN 6\"

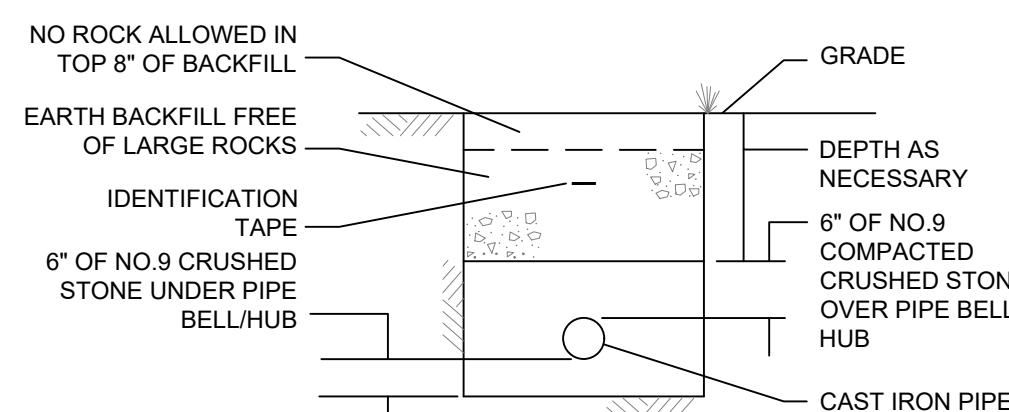
GENERAL NOTE:

1. GREASE TRAP SHALL BE CONSTRUCTED AND INSTALLED PER LFUCG LATEST STANDARDS AND REQUIREMENTS.

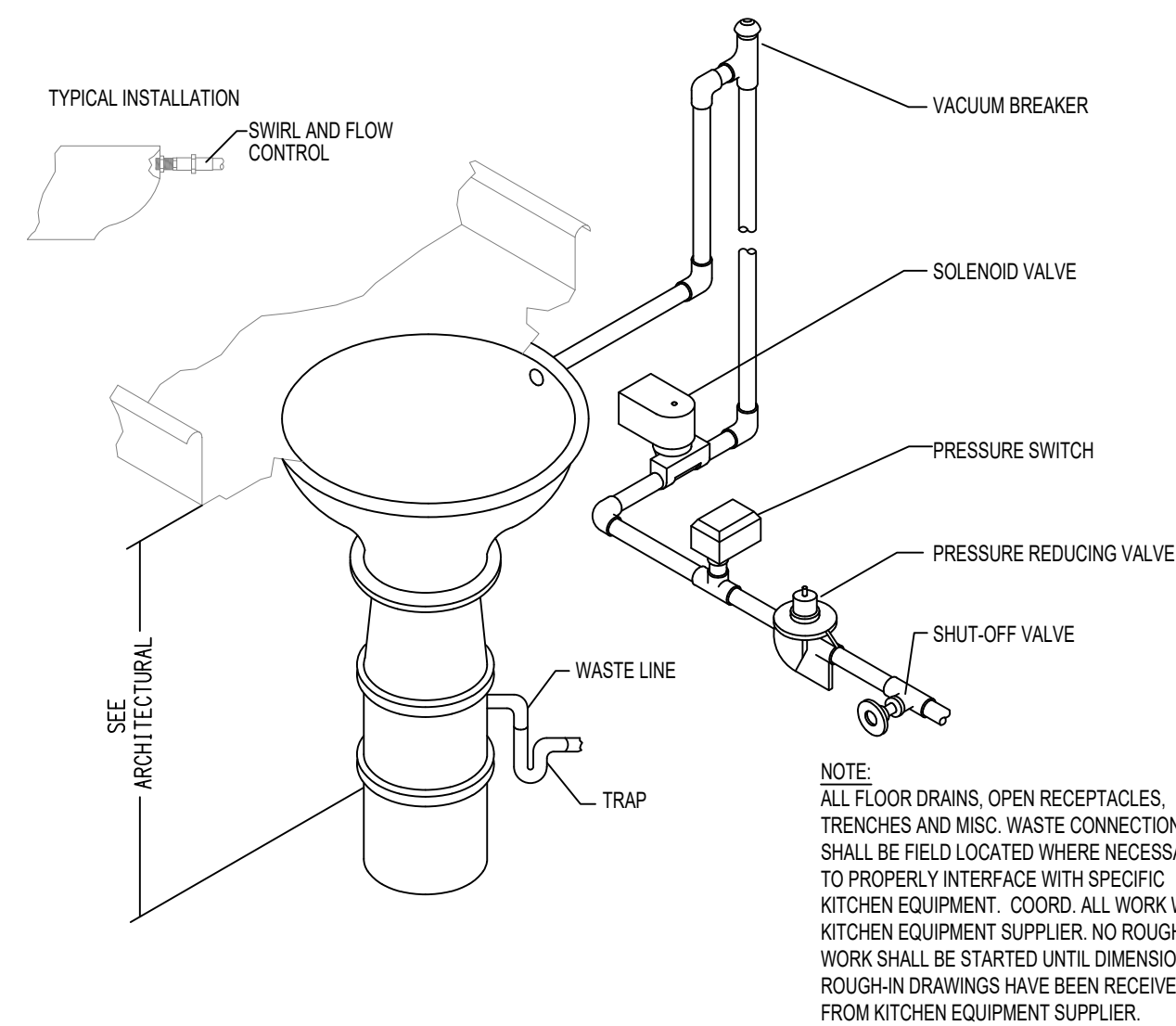
1,000 GALLON GREASE TRAP (GT-1) DETAIL FOR HEAVY TRAFFIC
NOT TO SCALE



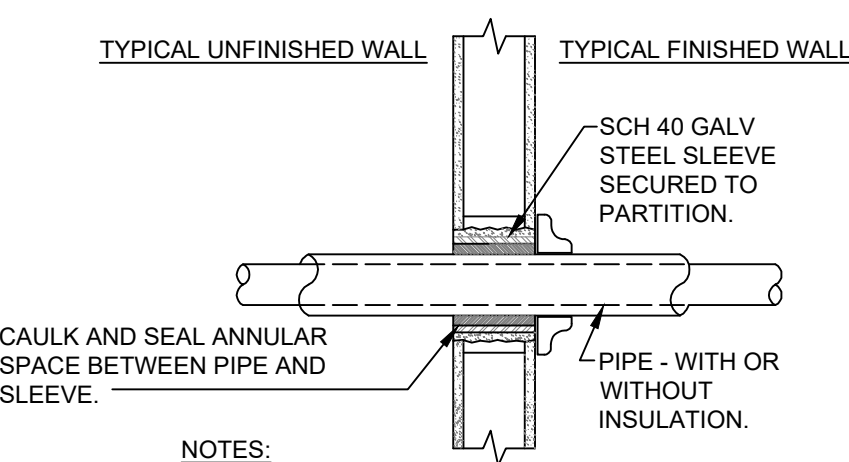
RECIRC-BALANCING STATION (RBS) - FOR HOT WATER RECIRCULATION PIPING
NO SCALE



TRENCH DETAIL FOR EARTH COVER
NO SCALE

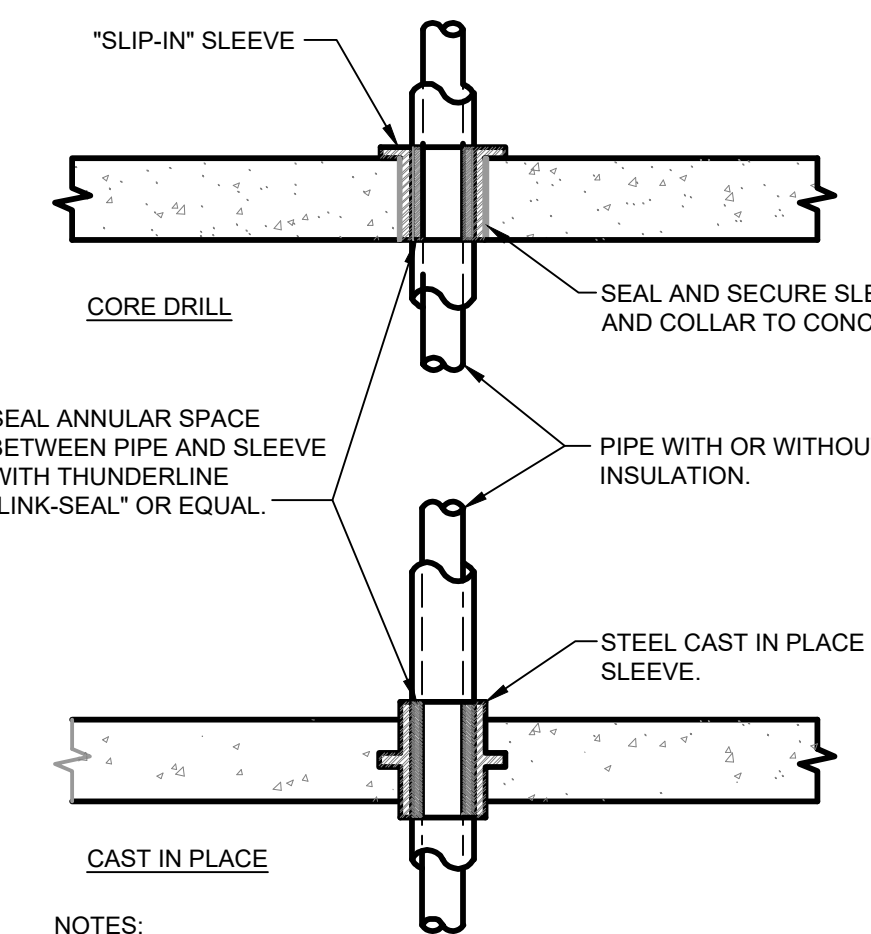


GARBAGE DISPOSAL INSTALLATION DETAIL
NO SCALE



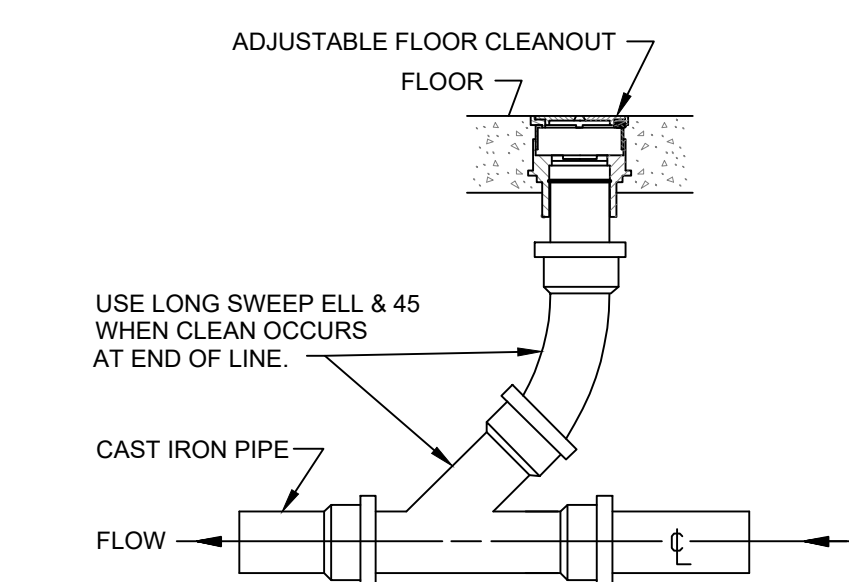
- NOTES:**
1. TYPICAL FOR NON-INSULATED PIPE AND CONDUIT.
 2. ALL CAULKING AND SEALANT SHALL BE FIRE RATED (SEE SPECIFICATIONS).
 3. WHERE PIPING IS EXPOSED AT FINISHED FLOOR, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.

PIPE PENETRATION THRU INTERIOR WALL DETAIL
NO SCALE

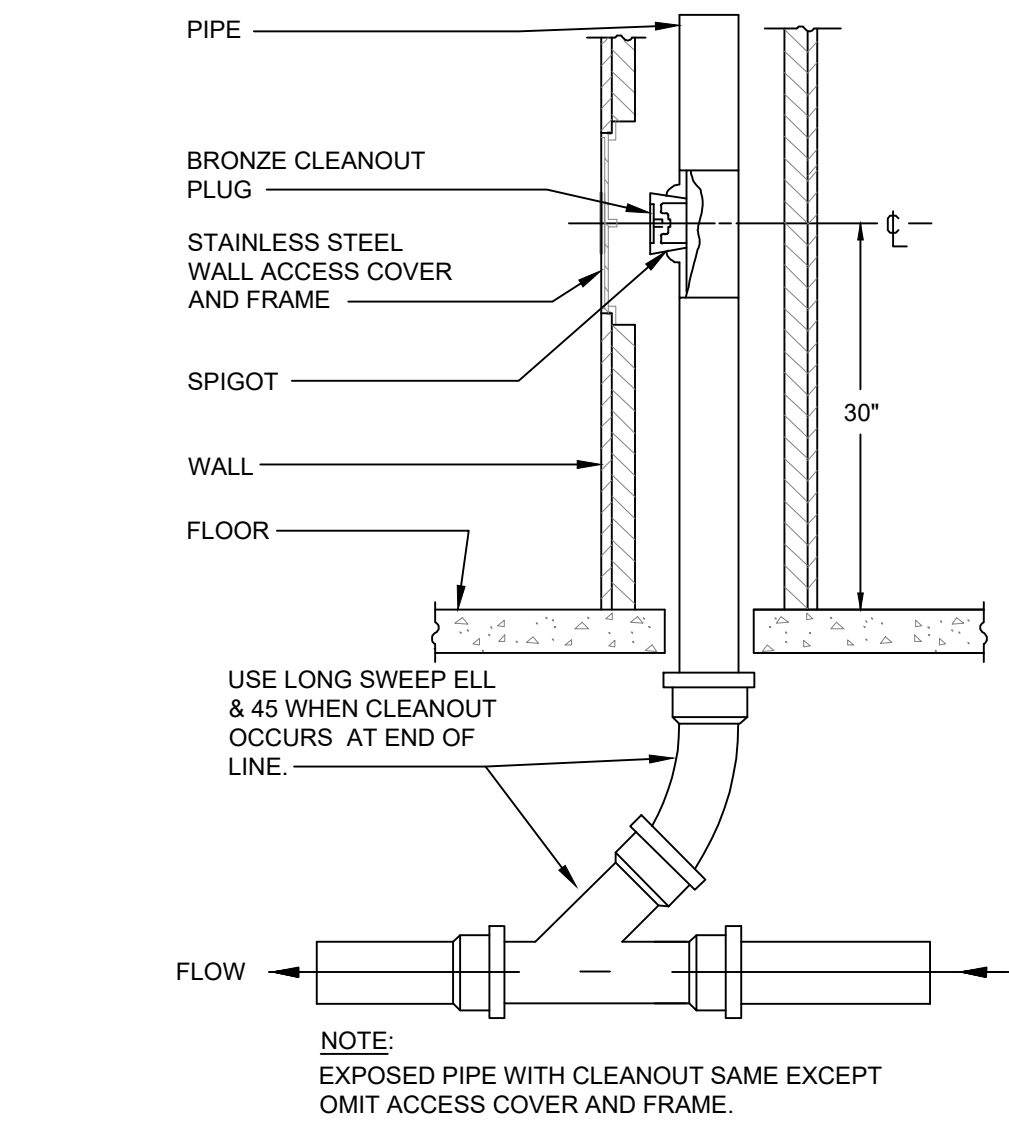


- NOTES:**
1. TYPICAL FOR NON-INSULATED PIPE AND CONDUIT.
 2. FOR FLOOR PENETRATIONS WITH FIRE RATING GREATER THAN ONE HOUR, USE THUNDERLINE 'PYRO-PAC' SEALS OR EQUAL.
 3. WHERE PIPING IS EXPOSED AT FINISHED FLOOR, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.

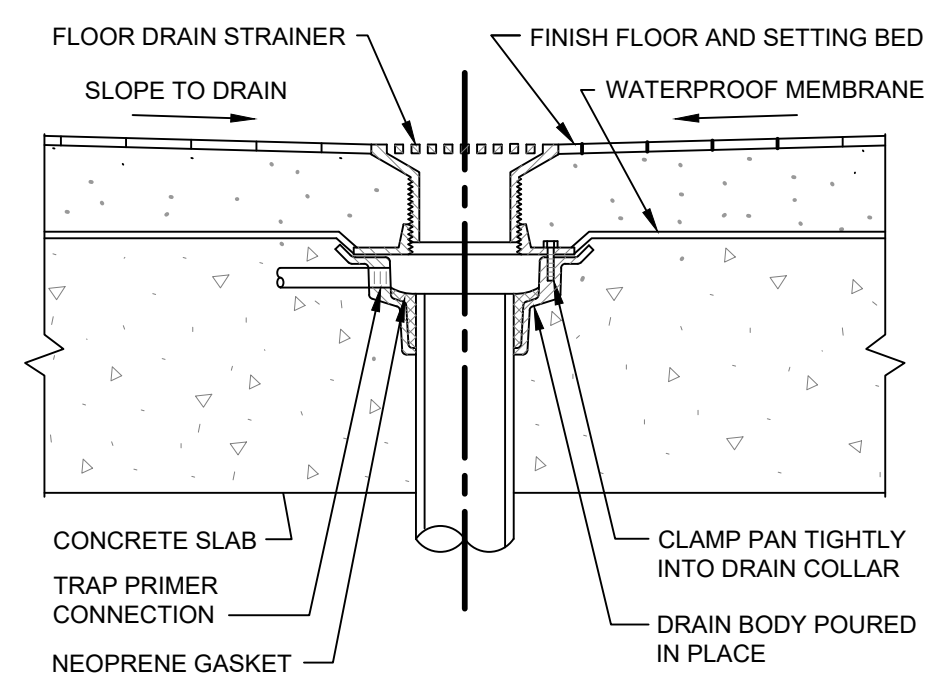
PIPE PENETRATION THRU CONCRETE SLAB DETAIL
NO SCALE



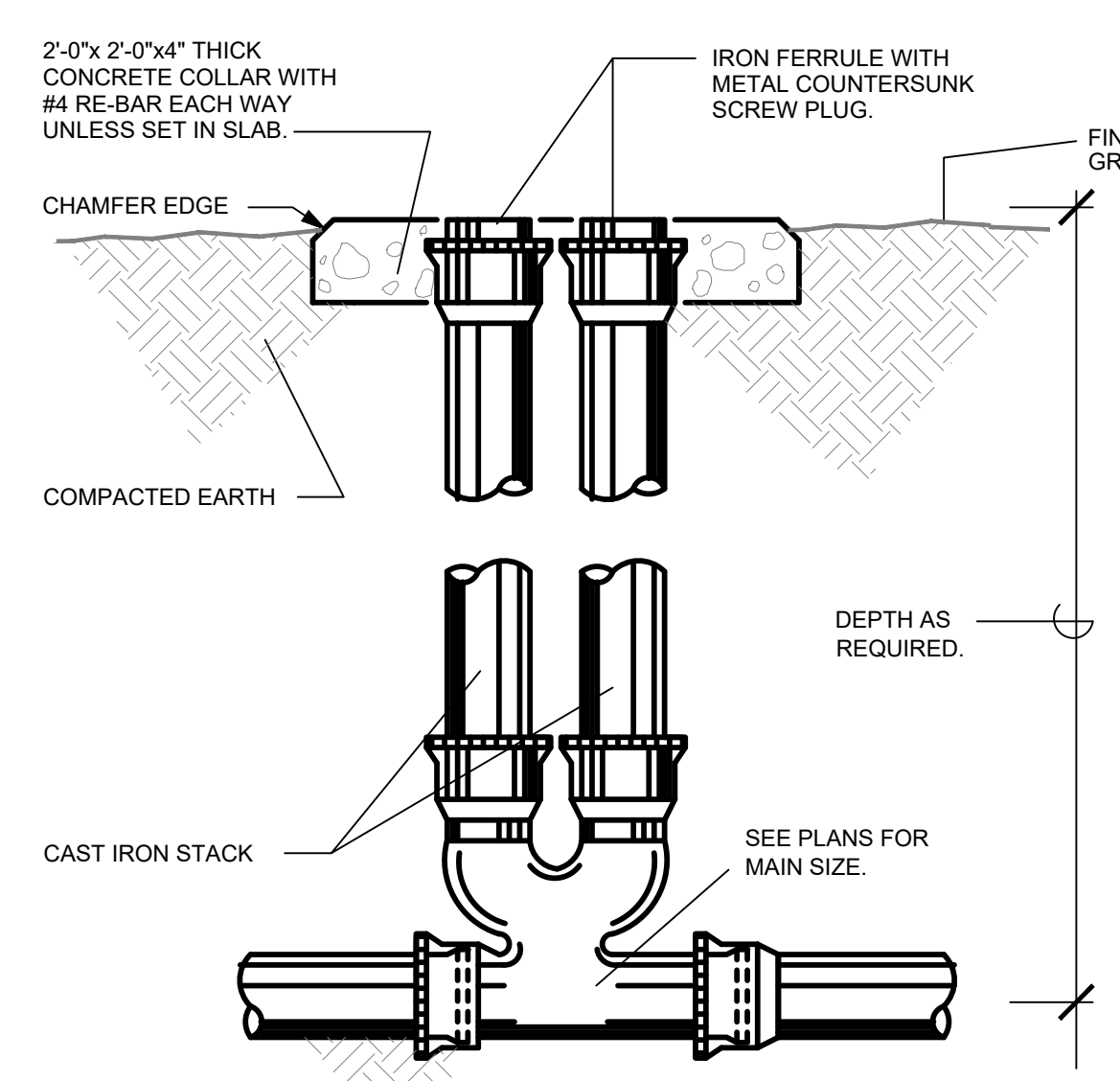
TYPICAL INTERIOR FLOOR CLEANOUT DETAIL
NO SCALE



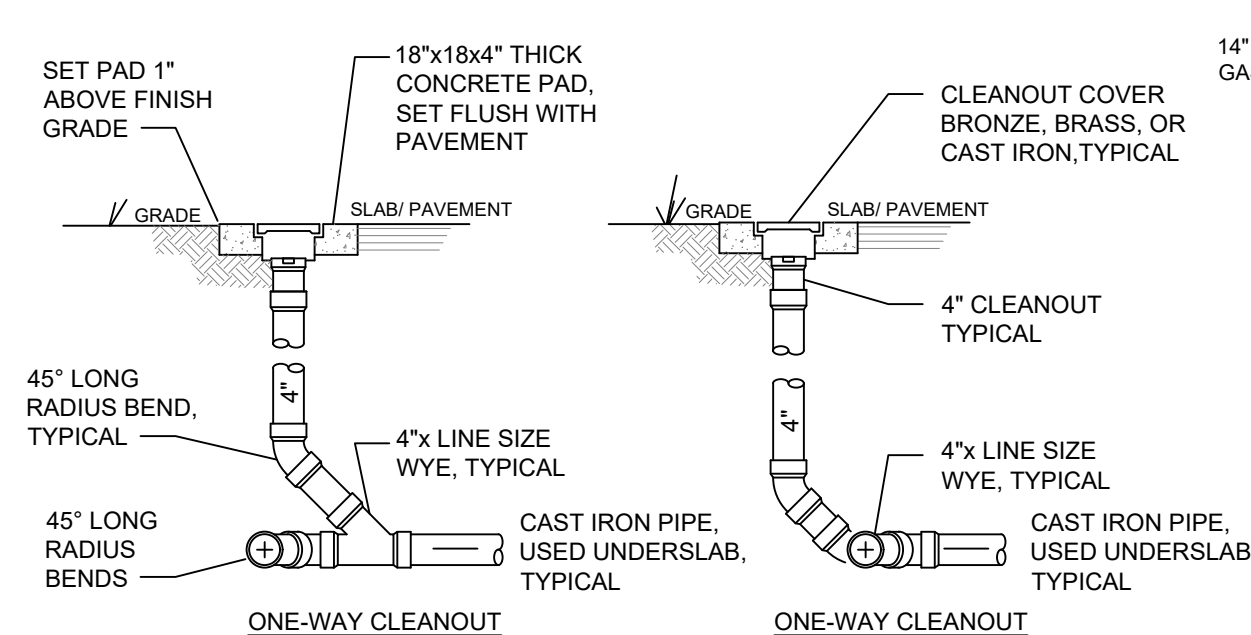
TYPICAL WALL CLEANOUT DETAIL
NO SCALE



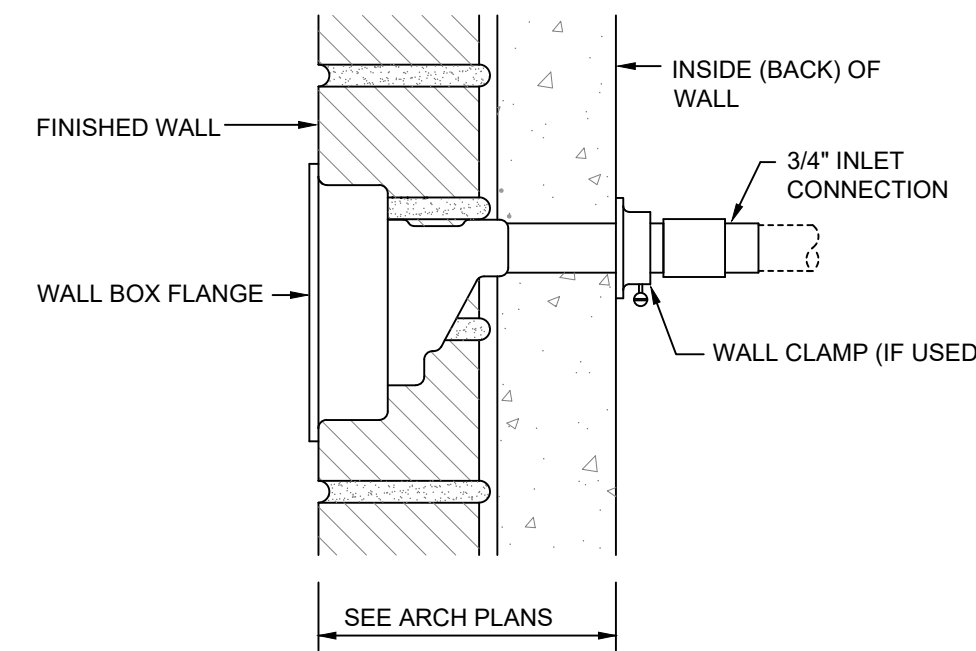
FLOOR DRAIN DETAIL
NO SCALE



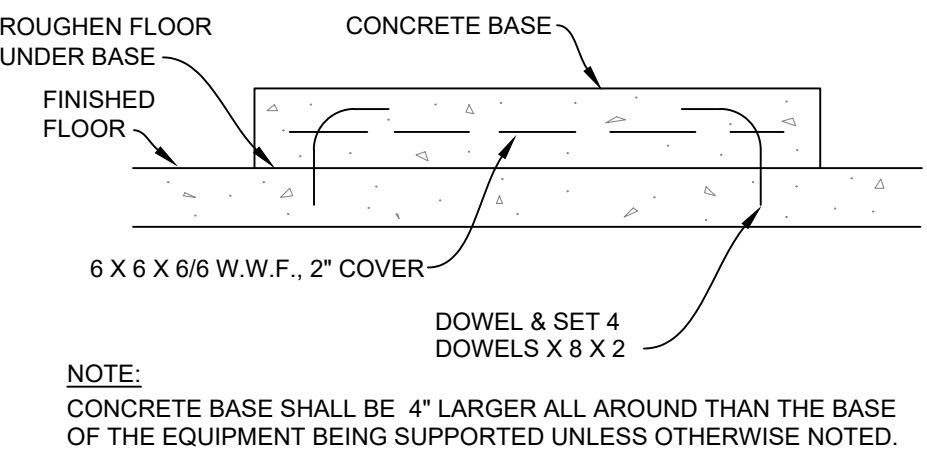
CLEANOUT USED 2-0\"/>



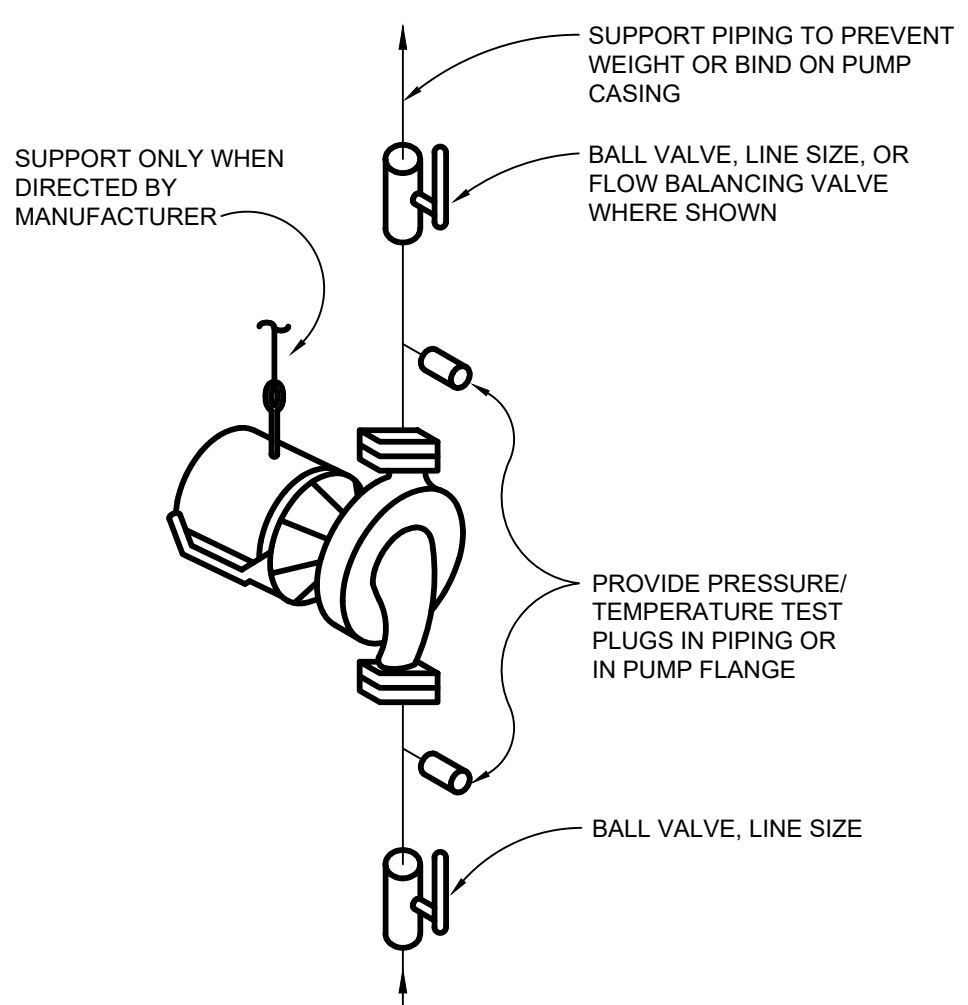
EXTERIOR SANITARY SEWER CLEANOUT DETAILS
NO SCALE



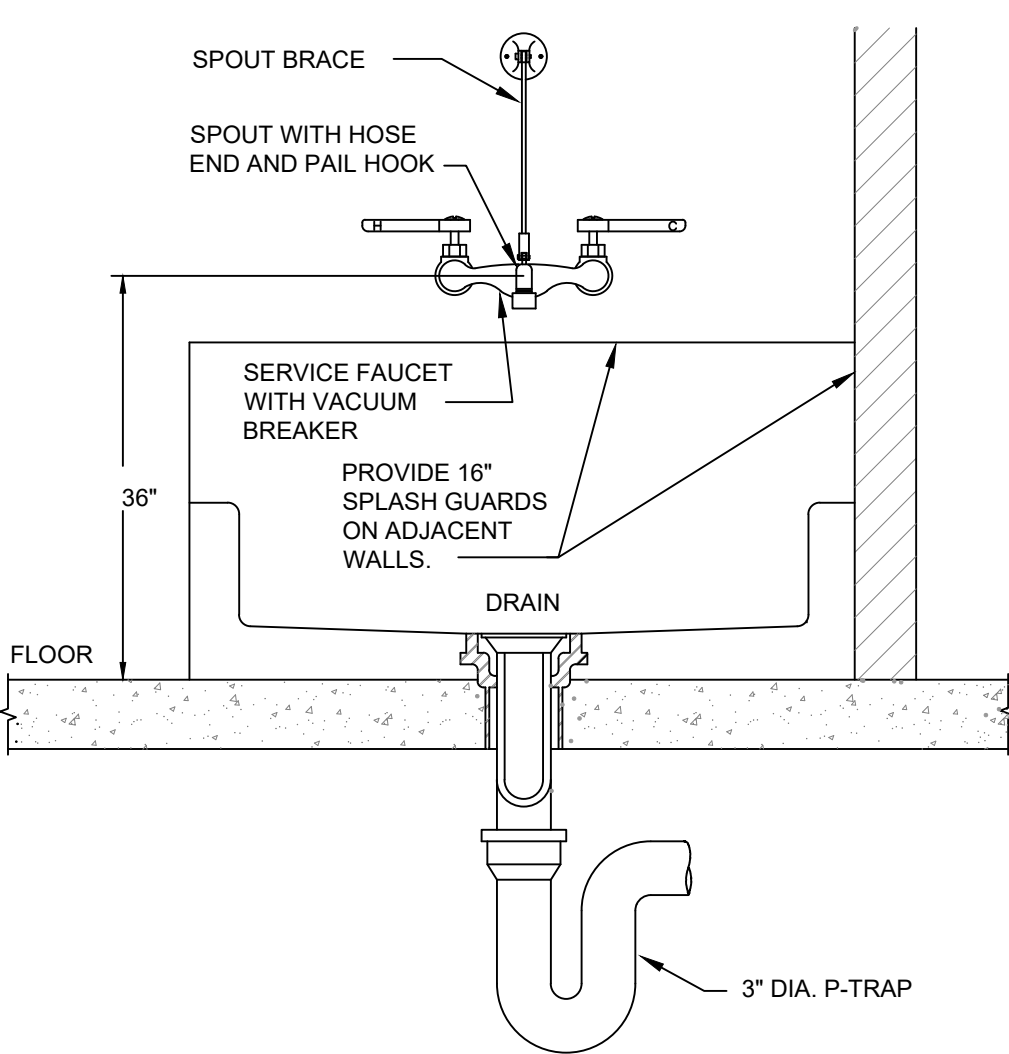
FREEZEPROOF WALL HYDRANT INSTALLATION DETAIL
NO SCALE



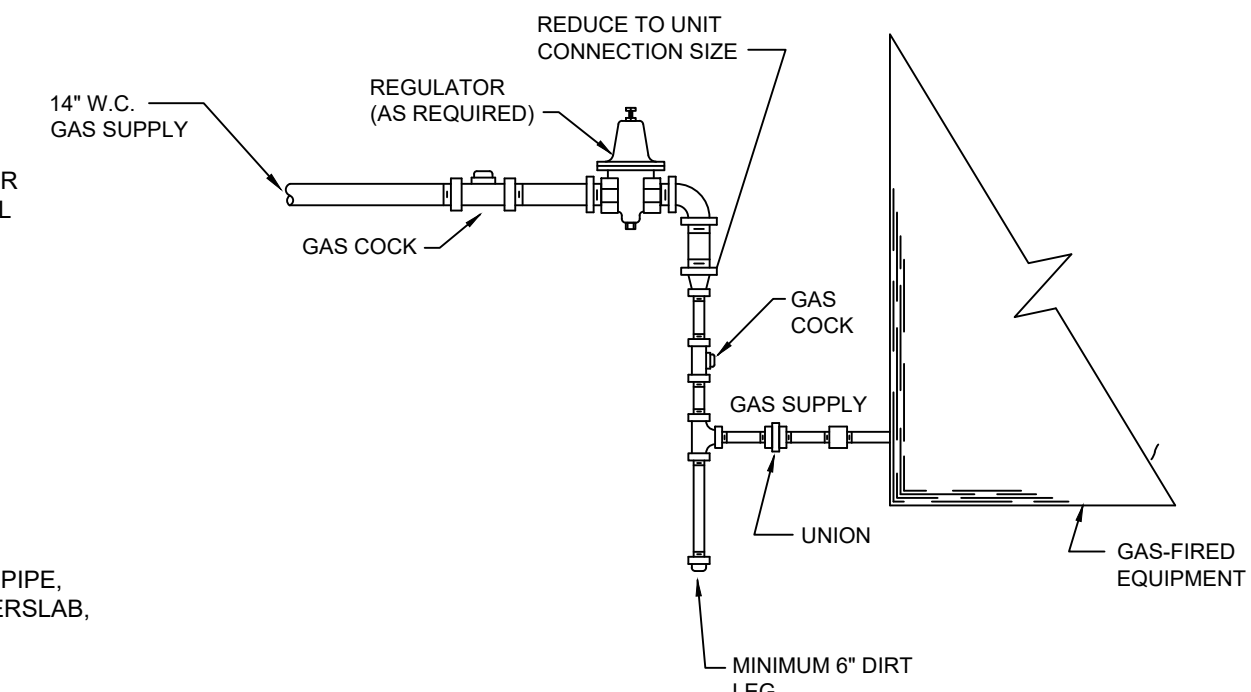
TYPICAL CONCRETE PAD DETAIL
NO SCALE



RCP-1 - DOMESTIC HOT WATER CIRCULATOR PUMP DETAIL
NO SCALE



MOP BASIN INSTALLATION DETAIL
NO SCALE



GAS-FIRED EQUIPMENT HOOK UP SCHEMATIC
NO SCALE

MECHANICAL LEGEND

HVAC	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER (4-WAY, 3-WAY, 2-WAY, 1-WAY)
	SUPPLY AIR DIFFUSER (ROUND)
	RETURN GRILLES
	EXHAUST GRILLES
	FLEXIBLE CONNECTION
	SUPPLY AIR DUCT (UP-, DOWN)
	RETURN AIR DUCT (UP-, DOWN)
	EXHAUST AIR DUCT (UP-, DOWN)
	ACCESS DOOR
	RECTANGULAR TO ROUND DUCTWORK TRANSITION
	RECTANGULAR TO RECTANGULAR TRANSITION
	DUCT CHANGE IN ELEVATION; R= RISE, D= DROP
	DUCT SIZE BACKDRAFT DAMPER (ARROW INDICATES FLOW DIRECTION)
	FIRE DAMPER
	MANUAL VOLUME CONTROL BALANCE DAMPER
	SMOKE DAMPER
	MOTORIZED DAMPER
	COMBINATION - FIRE / SMOKE DAMPER
	ELBOW WITH TURNING VANES
	ELBOW ROUND
	CONNECT NEW TO EXISTING
	INDICATES AIR FLOW DIRECTION
	GATE VALVE (HORIZ. - VERT.)
	GLOBE VALVE (HORIZ. - VERT.)
	BUTTERFLY VALVE (HORIZ. - VERT.)
	BALL VALVE (HORIZ. - VERT.)
	CONTROL VALVE (2-WAY, 3-WAY)
	TRIPLE-DUTY VALVE
	PRESSURE GAUGE
	TEMPERATURE GAUGE / THERMOMETER
	PRESSURE REDUCING VALVE
	STRAINER
	CHECK VALVE
	FLOW INDICATOR
	BALANCE VALVE
	EXISTING PIPING/DUCT/EQUIPMENT TO REMAIN
	EXISTING PIPING/DUCT/EQUIPMENT TO BE REMOVED
	CAP OR PLUG
	PIPE DOWN, PIPE UP
	INCREASE / REDUCER
	FLOW SWITCH (FS)
	FLOW METER (FM)(DDC)
	TEMP SENSOR (TS)(DDC)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	ROOM THERMOSTAT OR DUCT STAT
	SENSOR (CO, CO2, ETC.)
	HUMIDISTAT
	SUPPLY AIR DEVICE (S-1) / AIRFLOW (CFM)
	EQUIPMENT IDENTIFICATION
	DETAIL NO. / SHEET NO.
	SECTION NO. / SHEET NO.
	INDICATED TAG OR SHEET NOTE
	DEMOLITION NOTE
	REVISION TAG
	EXTENT OF DEMOLITION
	EXPANSION JOINT

HVAC	
SYMBOL	DESCRIPTION
	PIPE ANCHOR
	COMBINATION FLOW INDICATOR / BALANCING (4"-SMALLER)
	COMBINATION FLOW INDICATOR / BALANCING (5"-LARGER)
	TEMP / PRESS. RELIEF VALVE
	FLANGED CONNECTION
	UNION
	FLEXIBLE CONNECTION
	PUMP

HVAC	
SYMBOL	DESCRIPTION
— CD —	CONDENSATE DRAIN LINE
— CWR —	CHILLED WATER RETURN PIPING
— CWS —	CHILLED WATER SUPPLY PIPING
— EA —	EXHAUST AIR DUCTWORK
— HR —	HYDRONIC RETURN PIPING
— HS —	HYDRONIC SUPPLY PIPING
— HPR —	HIGH PRESSURE RETURN
— HPS —	HIGH PRESSURE STEAM
— HWR —	HOT WATER RETURN PIPING
— HWS —	HOT WATER SUPPLY PIPING
— LPR —	LOW PRESSURE RETURN
— LPS —	LOW PRESSURE STEAM
— MPR —	MEDIUM PRESSURE RETURN
— MPS —	MEDIUM PRESSURE STEAM
— OA —	OUTSIDE AIR DUCTWORK
— R —	REFRIGERANT LINE SET PIPING
— RA —	RETURN AIR DUCTWORK
— SA —	SUPPLY AIR DUCTWORK

ABBREVIATIONS	
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU-X	AIR HANDLING UNIT
AS-X	AIR SEPARATOR
ATV	AUTO. TEMPERING VALVE
B-X	BOILER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C	COMMON
CAS-X	VARIABLE REFRIGERANT CASSETTE UNIT
CFM	CUBIC FEET PER MINUTE
CH-X	CHILLER
CT-X	COOLING TOWER
CU-X	CONDENSING UNIT
E-X	EXHAUST AIR DEVICE
EF-X	EXHAUST FAN DESIGNATION
EH-X	ELECTRIC HEATER
ERU-X	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
EXT-X	EXPANSION TANK
FCU-X	FAN COIL UNIT
FZT	FREEZSTAT
GBD	GRAVITY BACKDRAFT DAMPER
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HP-X	HEAT PUMP UNIT
HT-X	HEAT TRACE
HX-X	HEAT EXCHANGER
KW	KILOWATT
L-X	LOUVER DESIGNATION
MAU-X	MAKE-UP AIR UNIT
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
P-X	PUMP
PRV	PRESSURE REDUCING VALVE
R-X	RETURN AIR DEVICE
RTU-X	ROOFTOP UNIT
S-X	SUPPLY AIR DEVICE
SF-X	SUPPLY FAN DESIGNATION
SP	TOTAL STATIC PRESSURE
T-X	TRANSFER AIR DEVICE
VAV-X	VARIABLE AIR VOLUME BOX

GENERAL NOTES:

- A. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. ALL MECHANICAL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR.

C. ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE CONSTRUCTION MANAGER (CM) OR GENERAL CONTRACTOR (GC), OTHER TRADES, THE OWNER, AND RELATED UTILITY COMPANIES. ALL WORK SHALL COINCIDE WITH THE CONSTRUCTION PHASING PER THE CONTRACT DOCUMENTS OR CONSTRUCTION DOCUMENTS AND/OR AS MODIFIED BY THE CM/GC AND APPROVED BY THE OWNER AND DESIGN TEAM. THE MECHANICAL CONTRACTOR SHALL COORDINATE AND DEVELOP A PHASING PLAN WHERE ONE IS NOT EXPLICITLY SHOWN AND SHALL ENSURE THAT SAID PHASING PLAN IS APPROVED PRIOR TO PROCEEDING WITH WORK. ANY AND ALL DEMOLITION SHALL NOT PERMIT INTERRUPTION OF SERVICE IN AN OCCUPIED BUILDING UNLESS COORDINATED AND APPROVED.

D. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF DUCTWORK, PIPING, EQUIPMENT, AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT. CONTRACTOR TO PROVIDE ANY ADDITIONAL DUCT OR PIPING OFFSETS AND/OR FITTINGS, INCLUDING DIVIDED DUCTS AND FLATTENED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.

E. THE MECHANICAL CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO BID AND SHALL COORDINATE ROUTING AND INSTALLATION OF MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, FIRE SUPPRESSION, PLUMBING, AND ELECTRICAL.

F. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS, FINISHES, ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE KENTUCKY BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.

G. THE EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH ALL OTHER TRADES. CEILING MOUNTED LIGHTING AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL EQUIPMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.

H. THE MECHANICAL DRAWINGS REFLECT A "BASIS OF DESIGN" HVAC SYSTEM THAT HAS BEEN DESIGNED AROUND SPECIFIC PRODUCTS/MANUFACTURERS' (SEE SCHEDULES). THE SELECTION OF A "BASIS OF DESIGN" HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). THE CONTRACTOR MAY USE "NON-BASIS OF DESIGN" PRODUCTS/MANUFACTURERS AS PERMITTED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. IF "NON-BASIS OF DESIGN" MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, SUBMITTED, OR INSTALLED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL OF HIS OR HER SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID. SUBSEQUENTLY, ANY ADDITIONAL COST BORE BY THE ENGINEER (MECHANICAL, ELECTRICAL, ETC.) TO ACCOMMODATE "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE BORE BY THE CONTRACTOR AND PAID TO THE ENGINEER OF RECORD DURING SUBMITTALS.
- I. EQUIPMENT OR MATERIALS AS ALLOWED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS, WHICH ARE INSTALLED AND SUBSEQUENTLY VIEWED UNSATISFACTORY BY THE OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.

J. CONTRACTOR SHALL VISIT THE JOB SITE, FIELD VERIFY FIT, COORDINATE WITH OTHER TRADES, AND BECOME FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, INSTALLING EQUIPMENT, ETC. NO ALLOWANCES WILL BE MADE FOR LACK THEREOF.

K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR ALL PERMITS, TESTING, AND INSPECTIONS.

L. CONTRACTOR TO REMOVE UNUSED/ABANDONED HVAC SYSTEMS AND EQUIPMENT UNLESS INDICATED OTHERWISE ON THE CONTRACT DOCUMENTS.

M. COORDINATE WITH THE CONTRACT DOCUMENTS AND PROVIDE TEMPORARY HEAT AS REQUIRED.

N. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS BUT NOT SHOWN ON PLANS AND VICE VERSA, SHALL BE PROVIDED AS IF REQUIRED BY BOTH.

O. THE ENTIRE MECHANICAL INSTALLATION SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATINGS AND/OR "UL" ASSEMBLY RATINGS AS REQUIRED BY THE CONTRACT DOCUMENTS AND AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL FIRE/SMOKE SEPARATIONS AND/OR "UL" RATED ASSEMBLIES. COORDINATE ALL PENETRATIONS WITH THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR. PROVIDE ADDITIONAL FIRE DAMPERS, SMOKE DETECTORS, AND SMOKE DAMPERS (INCLUSIVE OF WIRING) AS REQUIRED FOR A FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEM.
- P. ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. NO OTHER TRADES, I.E. ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM MECHANICAL DUCTWORK OR MECHANICAL PIPING.

Q. ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH THE ARCHITECT AND SHALL BE FLASHED AND SEALED WEATHER-TIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY THE ARCHITECT. NEW OPENINGS AND/OR PENETRATIONS FOR MECHANICAL ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE MECHANICAL CONTRACTOR. ALL OPENINGS SHALL BE CORE DRILLED OR SAW-CUT. NO "HAMMER DRILLING" WILL BE ALLOWED.

R. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO FACILITATE ACCESS TO ABOVE CEILING SPACE. COORDINATE ROUTING WITH OTHER SERVICES AND TRADES. PROVIDE ADDITIONAL DUCTWORK, OFFSETS, ETC. TO ACCOMMODATE FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM AT NO ADDITIONAL COST. ADDITIONAL OFFSETS REQUIRE APPROVAL FROM THE ENGINEER. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE.

S. ALL AIR DEVICES LOCATED ABOVE GYPBOARD OR HARD CEILINGS SHALL HAVE ACCESSIBLE BALANCING DAMPERS.

T. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

U. PROVIDE AND INSTALL DUCT ACCESS DOORS FOR INSPECTION OF ALL INSTALLED FIRE DAMPERS AS DIRECTED BY SMACNA HVAC CONSTRUCTION STANDARDS.

V. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF UL 181 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING AND KINKING. INSULATED FLEXIBLE DUCTS SHALL MEET MINIMUM R-VALUES REQUIRED BY THE IECC.

W. ALL HVAC EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. UTILIZE FACTORY FILTERS DURING CONSTRUCTION.

X. THE MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVES WITH COMPLETE NEBB/AAABC BALANCE REPORT. THE MECHANICAL CONTRACTOR SHALL PROVIDE AS MANY ADDITIONAL SITE VISITS BY THE LICENSED TAB CONTRACTOR AS REQUIRED BY THE ENGINEER FOR A COMPLETE AND FUNCTIONING AND APPROVED SYSTEM IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

Y. ALL RECTANGULAR 90 DEG. AND 45 DEG. ELBOWS SHALL HAVE TURNING VANES.

Z. PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK AT NO ADDITIONAL COST. PROVIDE A MAIN RETURN DAMPER UPSTREAM OF OUTSIDE AIR CONNECTIONS IN RETURN AIR FLENUM DESIGNS. COORDINATE ADDITIONAL MANUAL VOLUME DAMPER LOCATIONS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM WITH THE ENGINEER PRIOR TO ORDER, FABRICATION, OR INSTALLATION.
- AA. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR "CLEAR" DUCT DIMENSIONS.

AB. MAINTAIN 1'-0" MINIMUM CLEARANCE BETWEEN OUTDOOR AIR INTAKES AND EXHAUST, PLUMBING VENTS, ETC. AND/OR AS REQUIRED BY IMC, WHICHEVER IS MORE STRINGENT.

AC. MAINTAIN 1'-0" MINIMUM CLEARANCE FROM EDGE OF ROOFTOP EQUIPMENT TO ROOF EDGE UNLESS RAILING OR PARAPET OF SUFFICIENT HEIGHT IS TO BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO: IBC, IMC, LOCAL CODES, OSHA GUIDELINES (WHERE APPLICABLE). REFER TO ARCHITECTURAL.

AD. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH NEC.

AE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND DRAWINGS FOR CONNECTIONS AND LOCATION OF ALL EQUIPMENT.

AF. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR BENDS IN PIPING AS REQUIRED TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO TEMPERATURE CHANGES AND DIFFERENCES IN THE AMBIENT TEMPERATURE WHEN PIPING AND EQUIPMENT IS INSTALLED.

AG. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS OF ALL HYDRONIC PIPING. AUTOMATIC AIR VENTS SHALL BE INSTALLED WHERE INDICATED IN THE CONTRACT DOCUMENTS AND/OR AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

AH. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL PLANS AND GC/CM ALL AREAS WHERE MECHANICAL / ELECTRICAL EQUIPMENT AND DEVICES ARE INDICATED TO BE DEMOLISHED AND THE REQUIRED REPAIR AND RESTORATION OF ALL WALLS, ROOFS, CEILINGS, FLOORS, ETC. SHALL BE INCLUDED IN THEIR BID.

AI. ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES AND THE AMERICAN ROOFING COUNCIL. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AS NECESSARY TO MAINTAIN ALL WARRANTIES.

AJ. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY.

AK. DO NOT BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING, DUCTWORK, OR EQUIPMENT OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 30" x 42" (W x D) CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC.

GENERAL DEMOLITION NOTES:

- A. GENERAL MECHANICAL DEMOLITION NOTES APPLY TO ALL MECHANICAL SHEETS.

B. SEE ARCHITECTURAL DRAWINGS FOR BUILDING FLOOR PLAN LAYOUT.

C. THE EXISTING CONDITIONS REPRESENTED ON PLANS DEPICT APPROXIMATE LOCATIONS AND SIZES OF EQUIPMENT AND COMPONENTS. FIELD-VERIFY ACTUAL CONDITIONS AND DETERMINE ACTUAL LOCATIONS AND SIZES OF EQUIPMENT PRIOR TO COMMENCING WORK.

D. SUBSTANTIAL DEVIATIONS BETWEEN THE CONTRACT DOCUMENTS DEMOLITION SCOPE AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER IN THE FORM OF A REQUEST FOR INFORMATION WITH THE DESCRIPTIONS AND SKETCHES.

E. SCHEDULING OF ALL DEMOLITION OPERATIONS SHALL BE COORDINATED WITH OWNER NO LATER THAN THE DATE OF THE PROJECT PRECONSTRUCTION MEETING.

F. PROVIDE DEMOLITION WORK SHOWN ON THE DRAWINGS AND ALL INCIDENTAL DEMOLITION WORK REQUIRED TO COMPLETE NEW CONSTRUCTION WORK.

G. PROTECT EXISTING EQUIPMENT, PIPING, DUCTWORK, AIR OPENINGS, ETC. FROM DIRT AND DAMAGE DURING DEMOLITION AND CONSTRUCTION.

H. COMPLETELY REMOVE ALL COMPONENTS INDICATED ON PLANS FOR DEMOLITION INCLUDING REMOVAL OF ALL SUPPORTS, HANGERS, PIPING, WIRING, ECT. THAT ARE ASSOCIATED WITH THE COMPONENT BEING REMOVED, UNLESS OTHERWISE STATED.

I. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGE ASSOCIATED WITH DEMOLITION. ALL FINISHED SURFACES (FLOORS, WALLS, CEILINGS, ROOF, ETC.) SHALL MATCH EXISTING CONDITIONS.

J. PROVIDE 1-HOUR FIRE RATED DUST PROOF BARRIERS (UL DESIGN U309) TO SEPARATE DEMOLITION AREA FROM THE REST OF THE FACILITY.

K. WHERE DUST CREATED DURING DEMOLITION MAY ENTER AN HVAC SYSTEM RETURN AIR DUCT, PROVIDE TEMPORARY FILTERS AS REQUIRED TO PREVENT DUST INTRUSION.

L. MAINTAIN OPERATION OF ALL EXISTING SERVICES AND UTILITIES SERVING AREAS THAT ARE OCCUPIED OR IN OPERATION DURING DEMOLITION WORK. COORDINATE AND SCHEDULE ALL DISRUPTIONS TO SERVICES OR UTILITIES WITH OWNER TWO WEEKS IN ADVANCE OF INTERRUPTION.

M. REMOVE, RELOCATE AND REINSTALL ANY COMPONENTS WHEN REQUIRED TO ACCOMMODATE DEMOLITION OR NEW WORK SCOPE. COMMUNICATE TO ARCHITECT/ENGINEER THE EXTENT OF ITEMS TO BE REMOVED PRIOR TO BEGINNING THE WORK.

N. STORE AND PROTECT ALL EXISTING ITEMS WHICH ARE TO BE RELOCATED OR REUSED.

O. WHERE DEMOLITION/RE-WORK OF EXISTING MEP ITEMS CONTAINING HAZARDOUS MATERIALS OCCUR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FOR ABATEMENT AND REMEDIATION AS REQUIRED.

New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:

Newport Primary School

1102 York Street

Newport, Kentucky 41071

Newport Independent Board of Education

Mr. Tony Watts, Superintendent

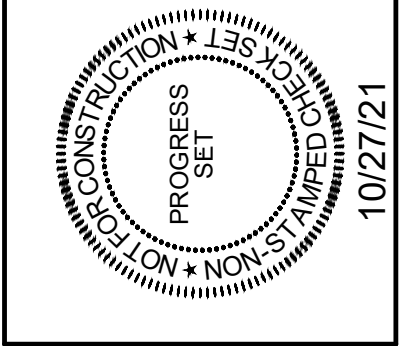
SHEET TITLE
MECHANICAL
LEGEND AND
GENERAL NOTES

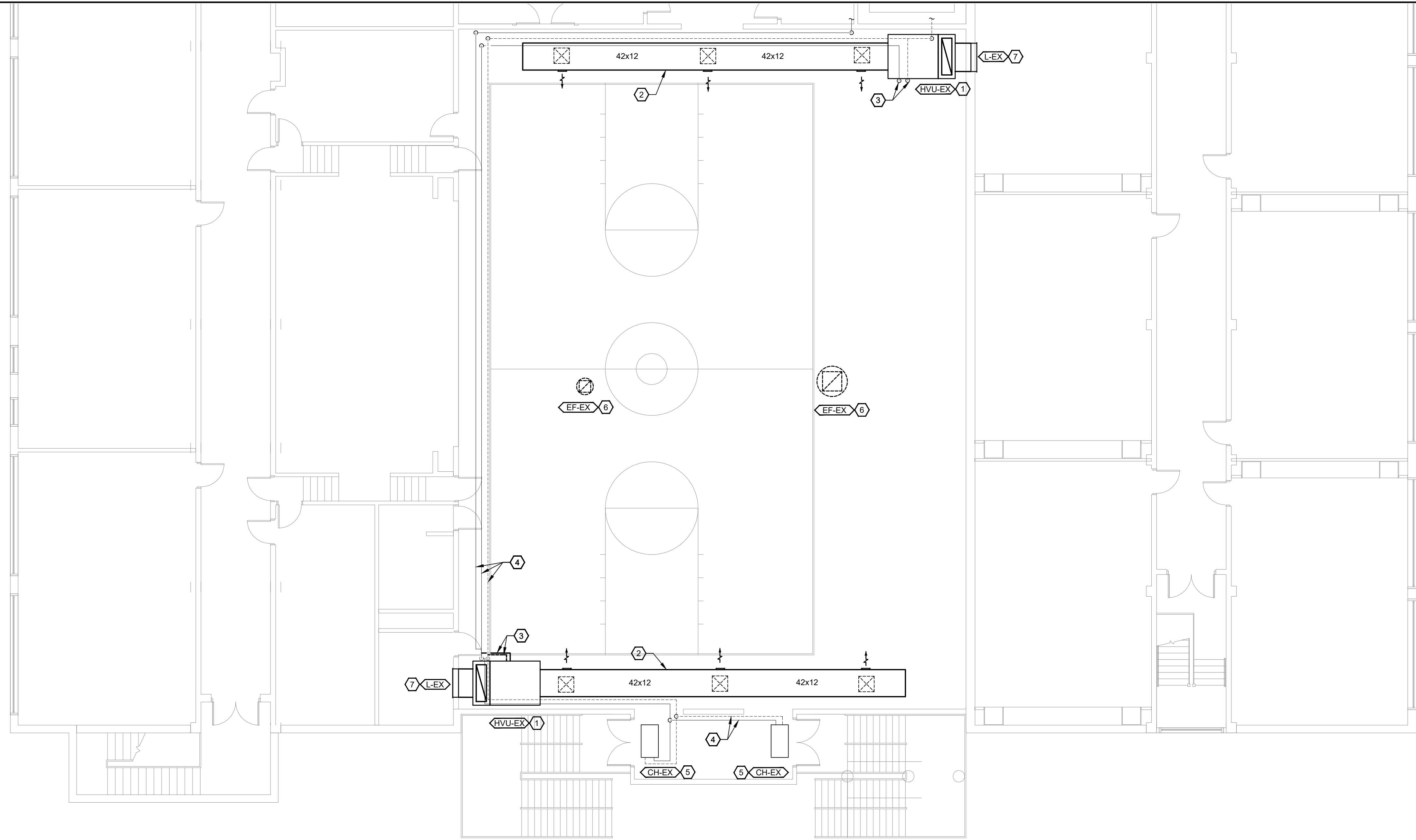
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22-056

REH #
149-520

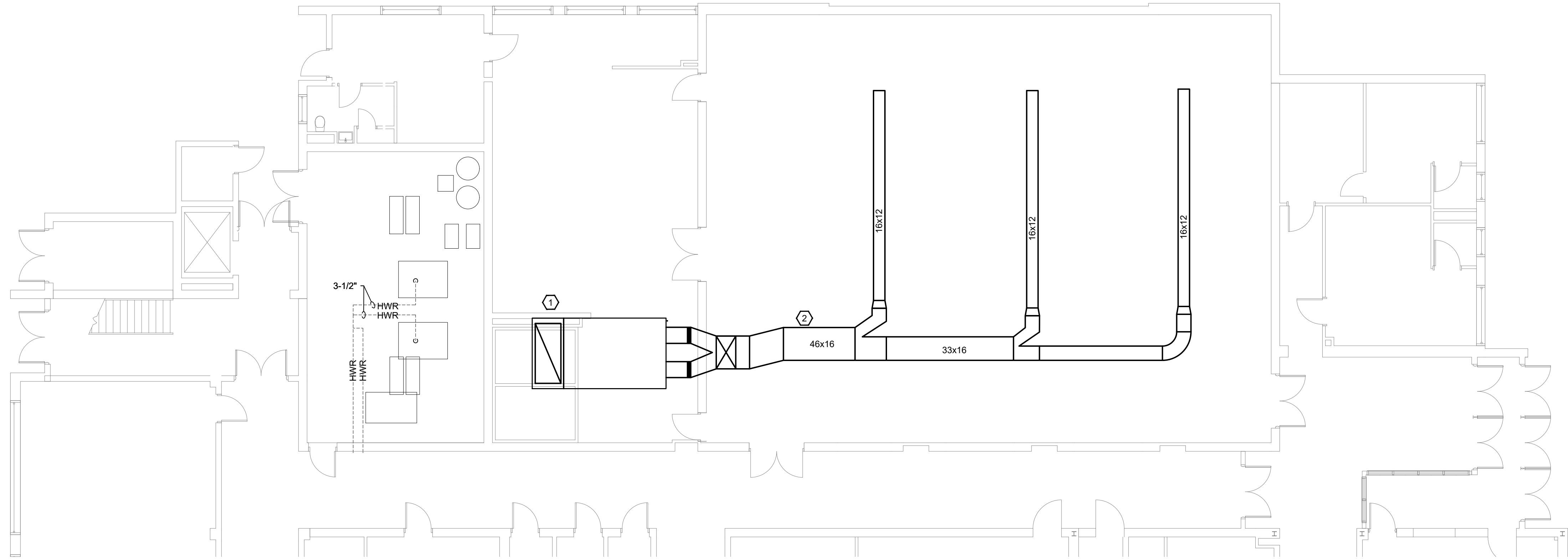
DATE
10/27/2021

M0.1





2 PARTIAL SECOND FLOOR - MECHANICAL DEMOLITION
SCALE: 1/8"=1'-0"



1 PARTIAL FIRST FLOOR - MECHANICAL DEMOLITION
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. REFER TO SHEET MD1.1 FOR GENERAL NOTES.
2. EXISTING CONDITIONS REPRESENTED ON PLANS DEPICT APPROXIMATE LOCATIONS AND SIZES OF EQUIPMENT AND COMPONENTS. FIELD VERIFY ACTUAL CONDITIONS AND DETERMINE ACTUAL LOCATIONS AND SIZES OF EQUIPMENT PRIOR TO COMMENCING WORK.
3. COMPLETELY REMOVE ALL COMPONENTS INDICATED ON PLANS FOR DEMOLITION INCLUDING REMOVAL OF SUPPORTS, HANGERS, PIPING, WIRING, ETC. THAT ARE ASSOCIATED WITH THE COMPONENT BEING REMOVED, UNLESS OTHERWISE STATED.

SHEET KEYNOTES:

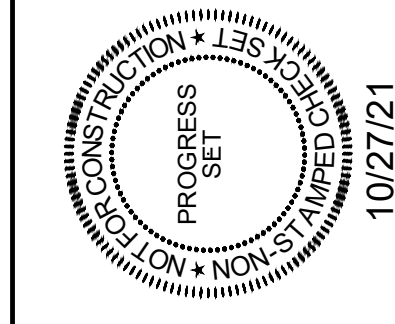
1. REMOVE EXISTING HEATING AND VENTILATION UNIT FOR REPLACEMENT WITH NEW UNIT. REFER TO NEW WORK FOR MORE INFORMATION.
2. REMOVE EXISTING DUCTWORK. REFER TO NEW WORK FOR MORE INFORMATION.
3. CUT AND CAP EXISTING PIPING TO HEATING AND VENTILATION UNIT.
4. EXISTING PIPING TO CABINET HEATER TO REMAIN IN PLACE.
5. EXISTING CABINET HEATER AND ASSOCIATED PIPING TO REMAIN IN PLACE.
6. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.
7. REMOVE EXISTING LOUVER AND ATTACHED DUCTWORK.

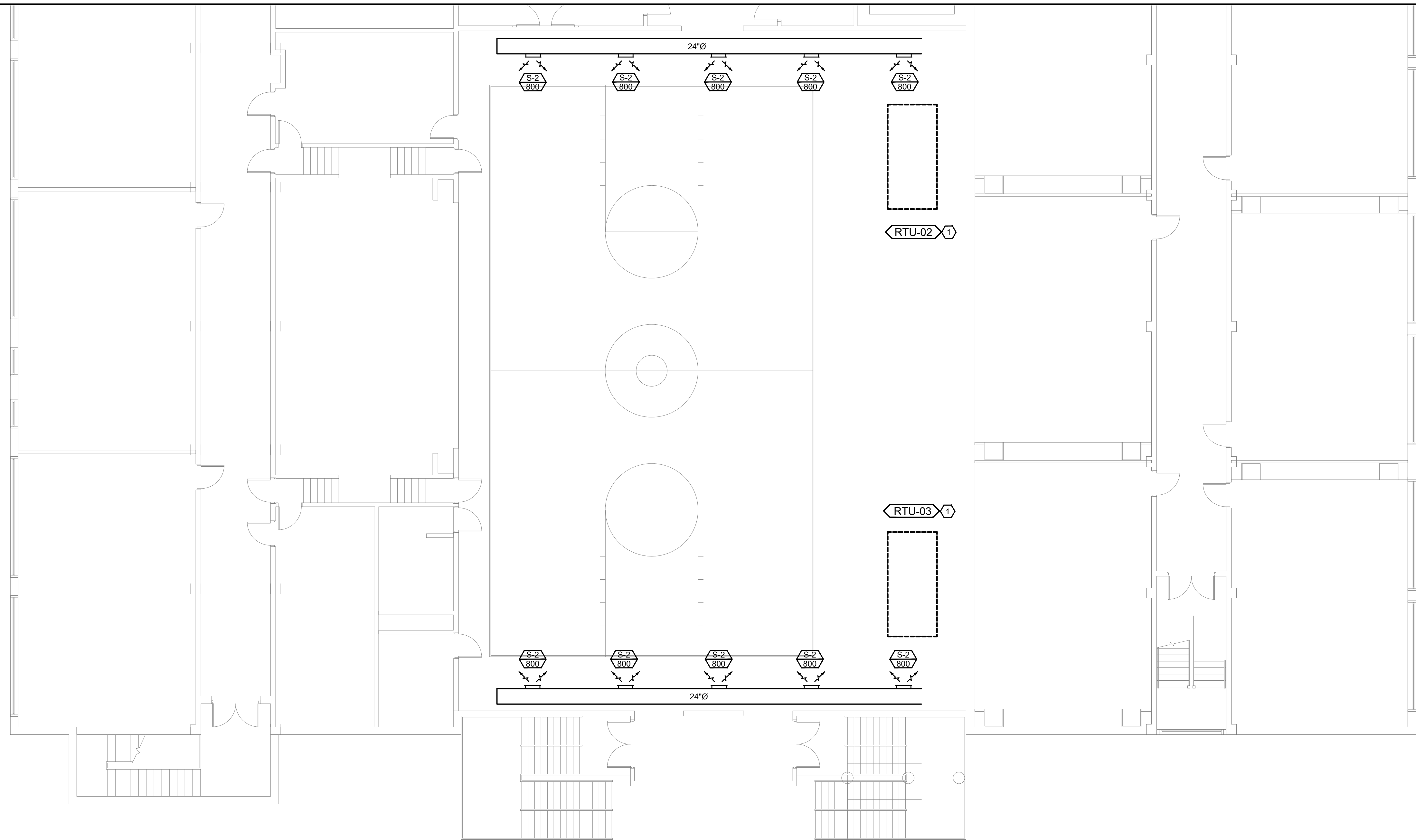
New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:
Newport Primary School
1102 York Street
Newport, Kentucky 41071
Newport Independent Board of Education
Mr. Tony Watts, Superintendent

SHEET TITLE
PARTIAL
FLOOR PLANS
MECHANICAL
DEMOLITION

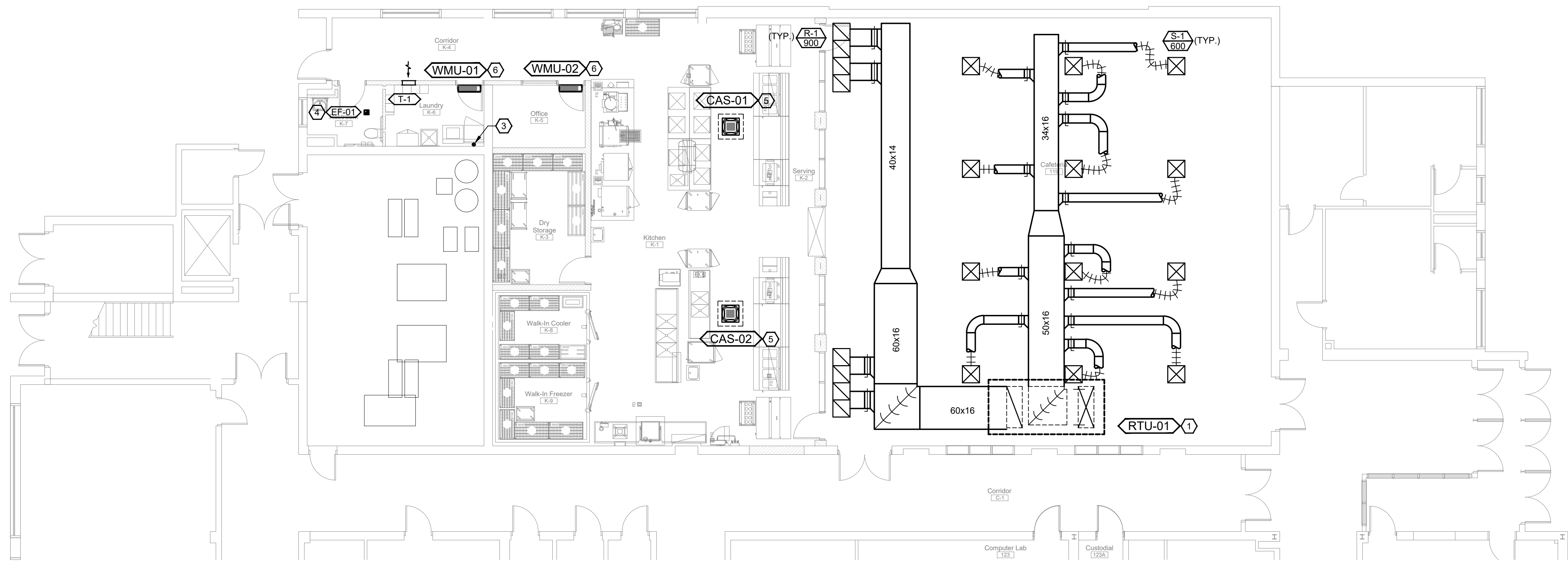
BG #
22-056
REH #
149-520
DATE
10/27/2021

MD1.1





2 PARTIAL SECOND FLOOR - HVAC
SCALE: 1/8"=1'-0"



1 PARTIAL FIRST FLOOR - HVAC
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. REFER TO SHEET M0.1 FOR GENERAL NOTES.
2. ALL EQUIPMENT SHALL BE PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

SHEET KEYNOTES:

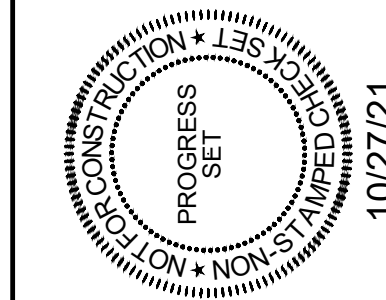
1. ROOFTOP UNIT TO BE MOUNTED ON NEW ROOF CURB.
2. DOUBLE WALL SPIRAL DUCT WHERE INDICATED.
3. DRYER VENT DUCT UP TO GOOSENECK ON ROOF. SEE DETAILS FOR ADDITIONAL INFORMATION.
4. CEILING MOUNTED EXHAUST FAN. CONNECT DUCT TO GRAVITY VENT ON ROOF. SEE DETAILS FOR ADDITIONAL INFORMATION.
5. CASSETTE UNIT TO BE MOUNTED IN CEILING. SEE PIPING SHEETS FOR ADDITIONAL INFORMATION.
6. WALL MOUNTED MULTI SPLIT UNIT TO BE MOUNTED ABOVE DOOR WHERE INDICATED. SEE PIPING SHEETS FOR ADDITIONAL INFORMATION.

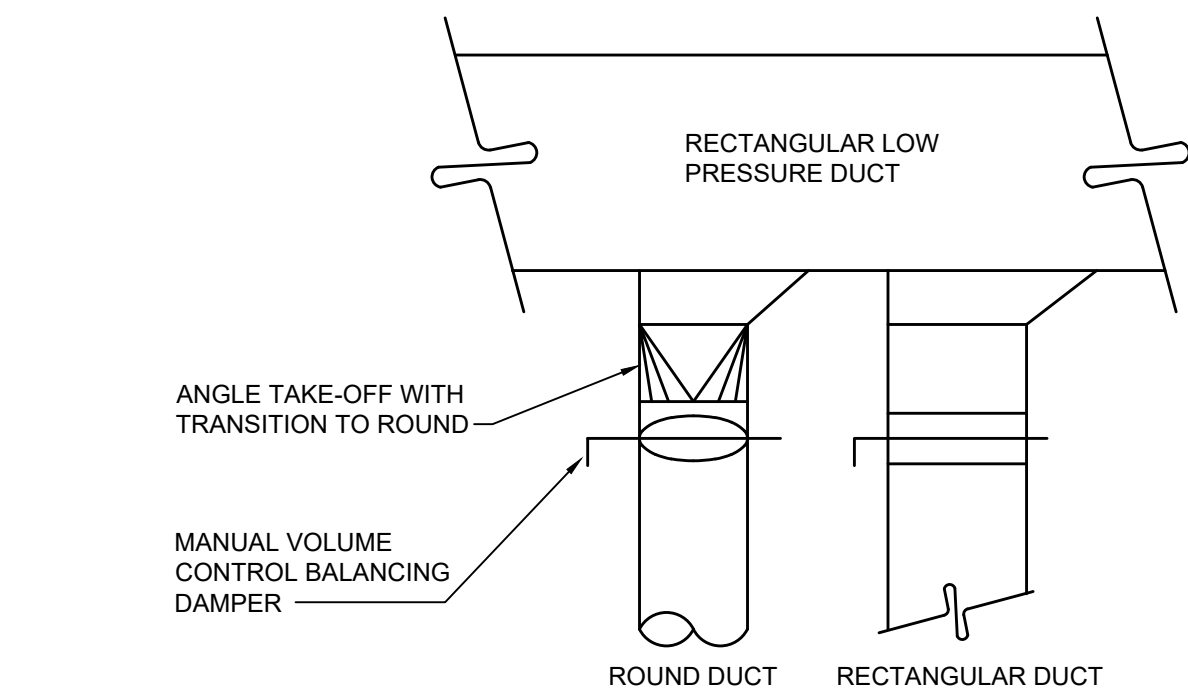
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SHEET TITLE
PARTIAL
FLOOR PLANS
HVAC

BG #
22-056
REH #
149-520
DATE
10/27/2021

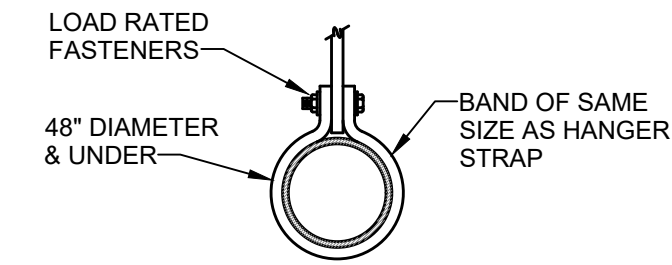
M1.1





LOW PRESSURE BRANCH TAKE OFF DETAIL

NOT TO SCALE

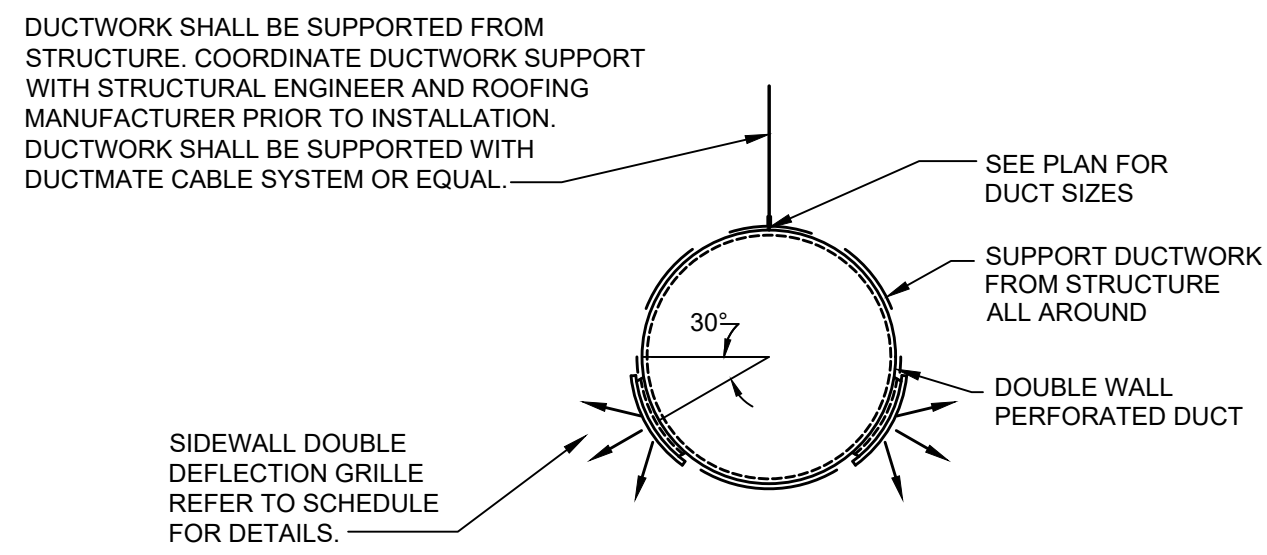


HANGER STRAPS OR RODS			
MAX. DUCT DIA.	HANGER	MAX. LOAD LB.	MAX. SPACING FT.
48"	ONE 1"x 22 GA STRAP	260	12

NOTE:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

ROUND DUCT HANGER DETAIL

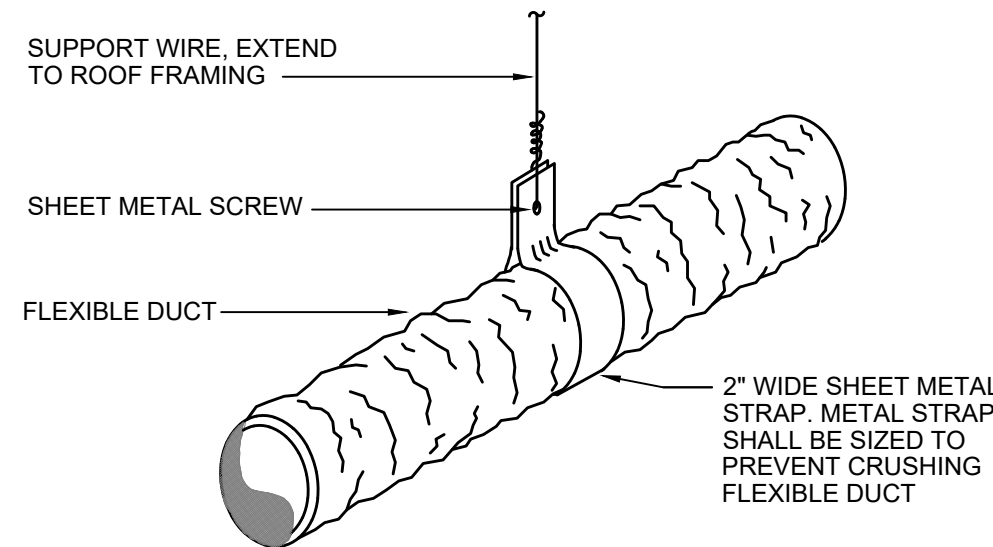
NOT TO SCALE



DOUBLE WAAL DUCT INSTALLATION DETAIL

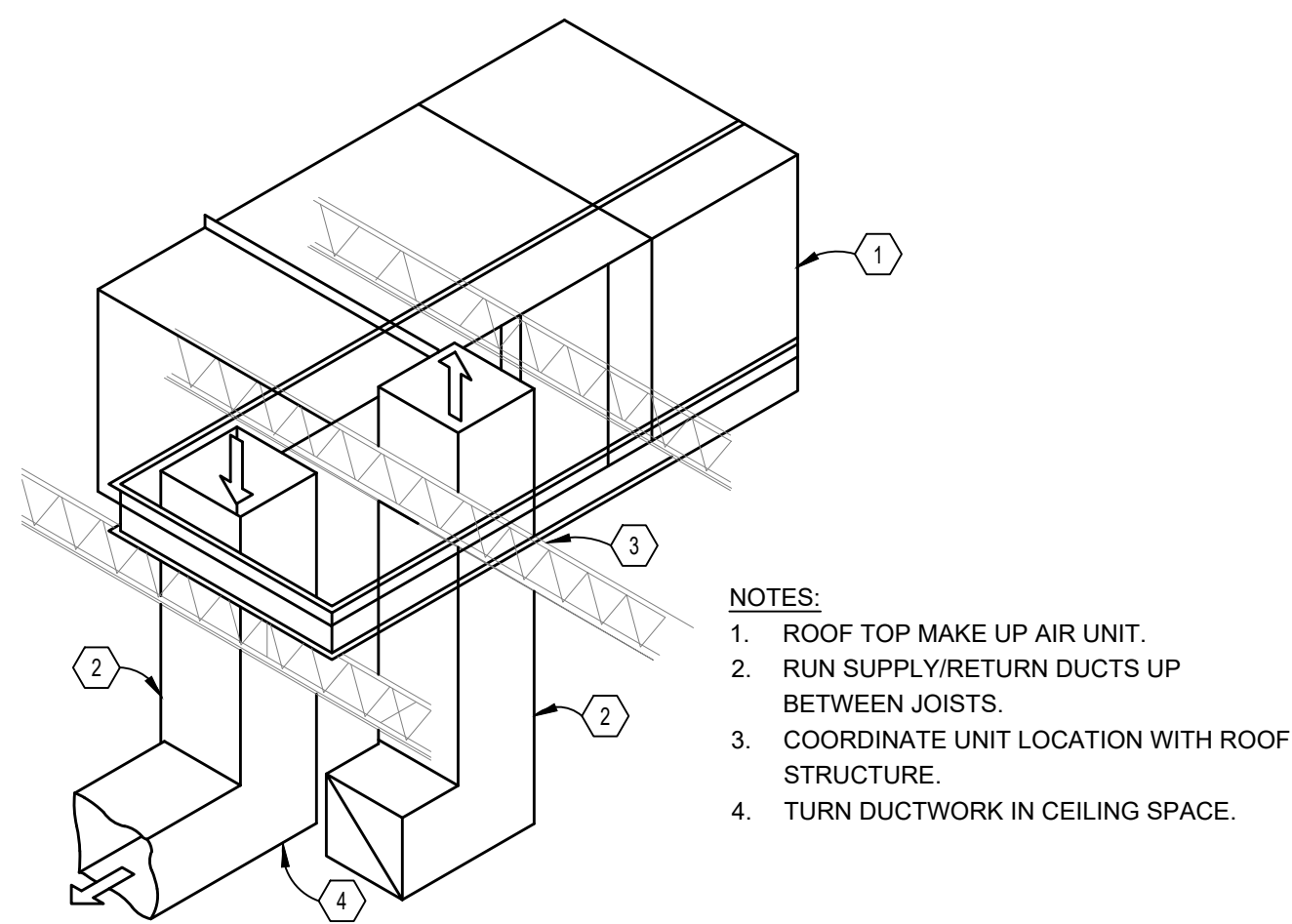
NOT TO SCALE

233113



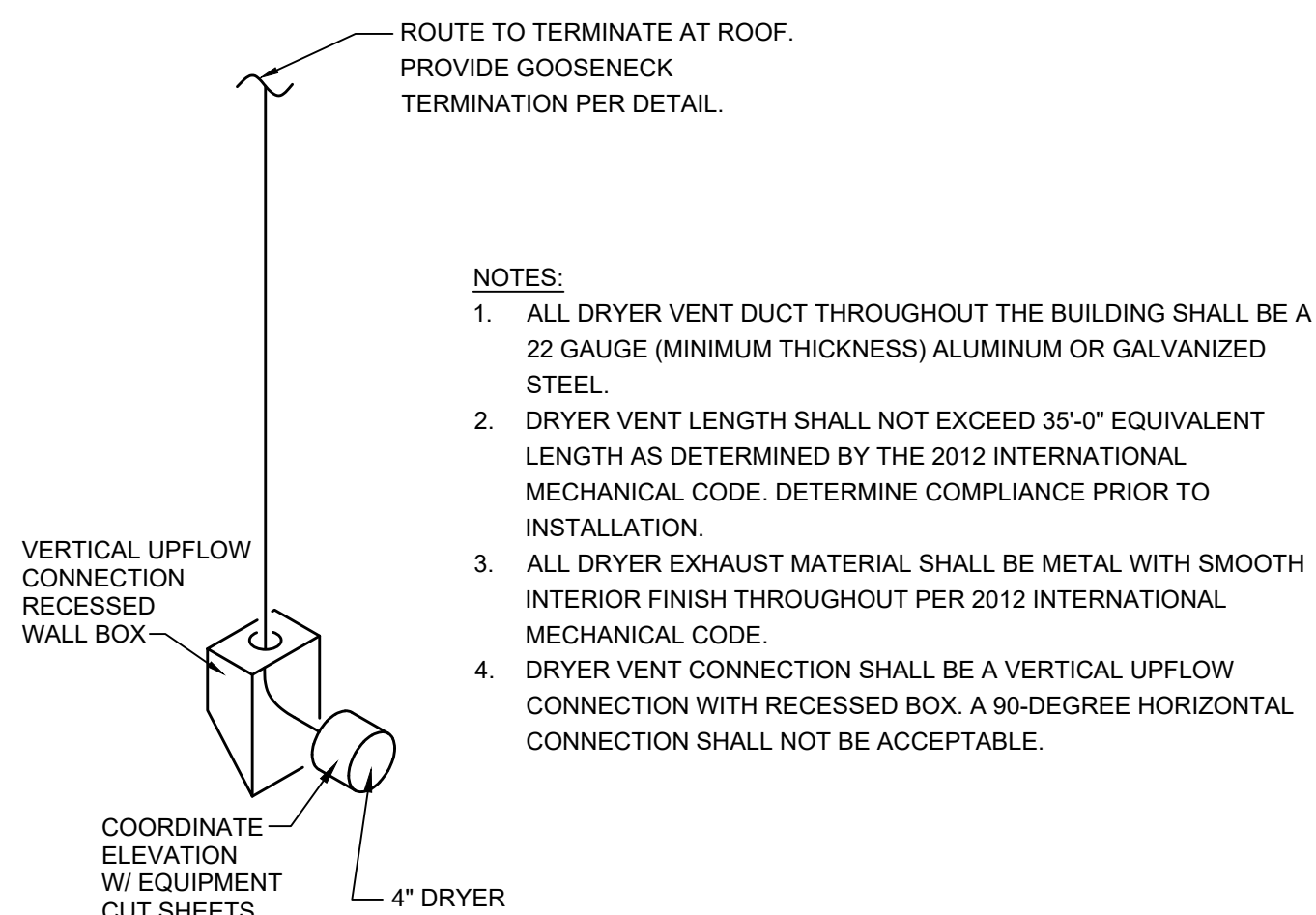
FLEXIBLE DUCT SUPPORT DETAILS

NOT TO SCALE



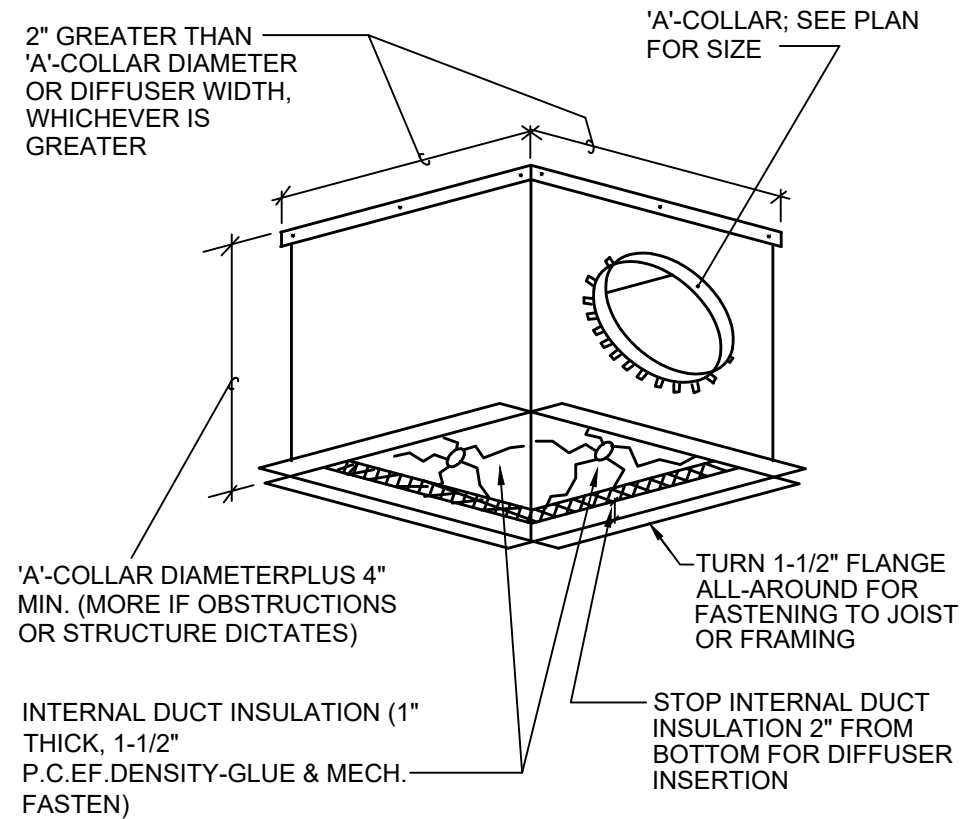
RTU ROOFTOP UNIT DETAIL

NOT TO SCALE



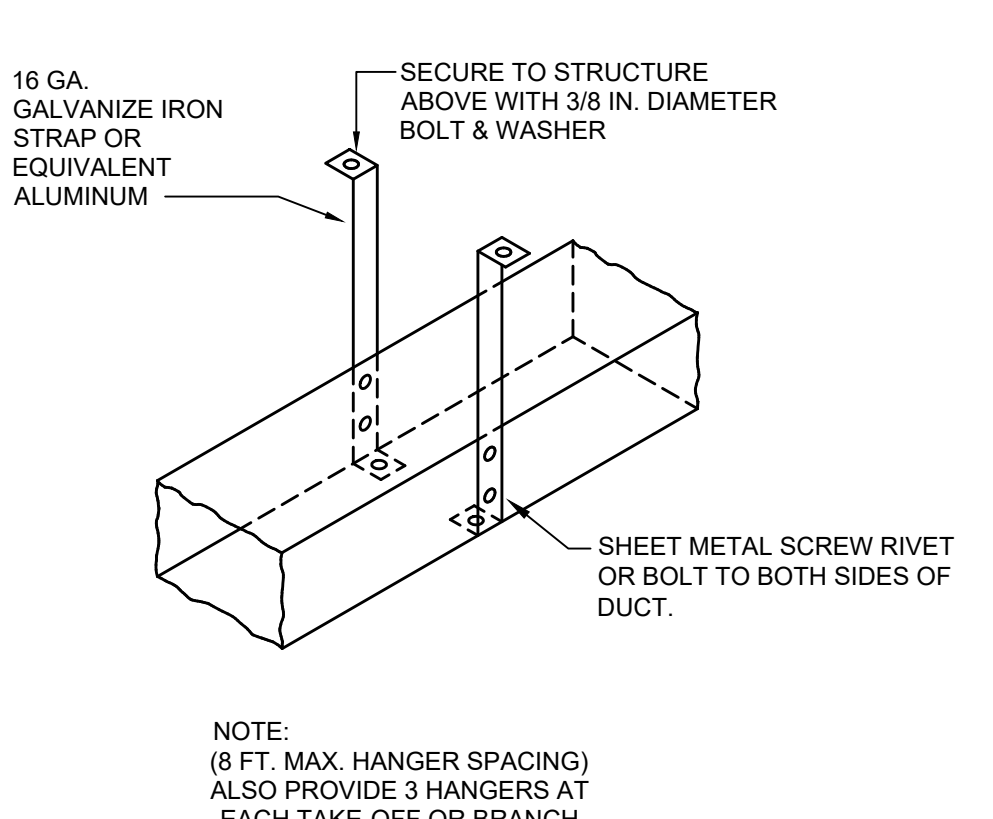
DRYER VENT DETAIL

NOT TO SCALE



SHEET METAL BOOT DETAIL

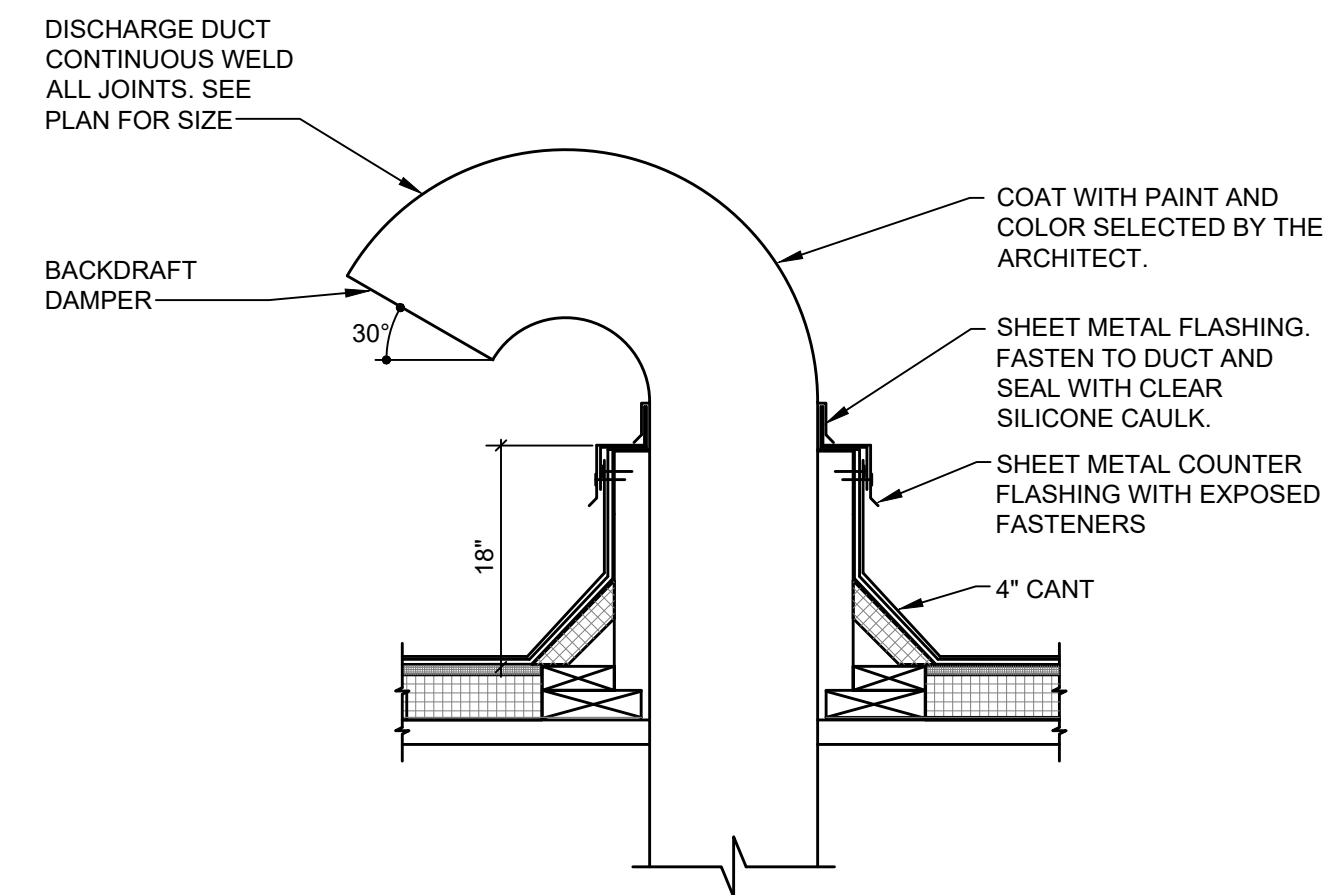
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RECTANGULAR DUCT HANGER DETAIL

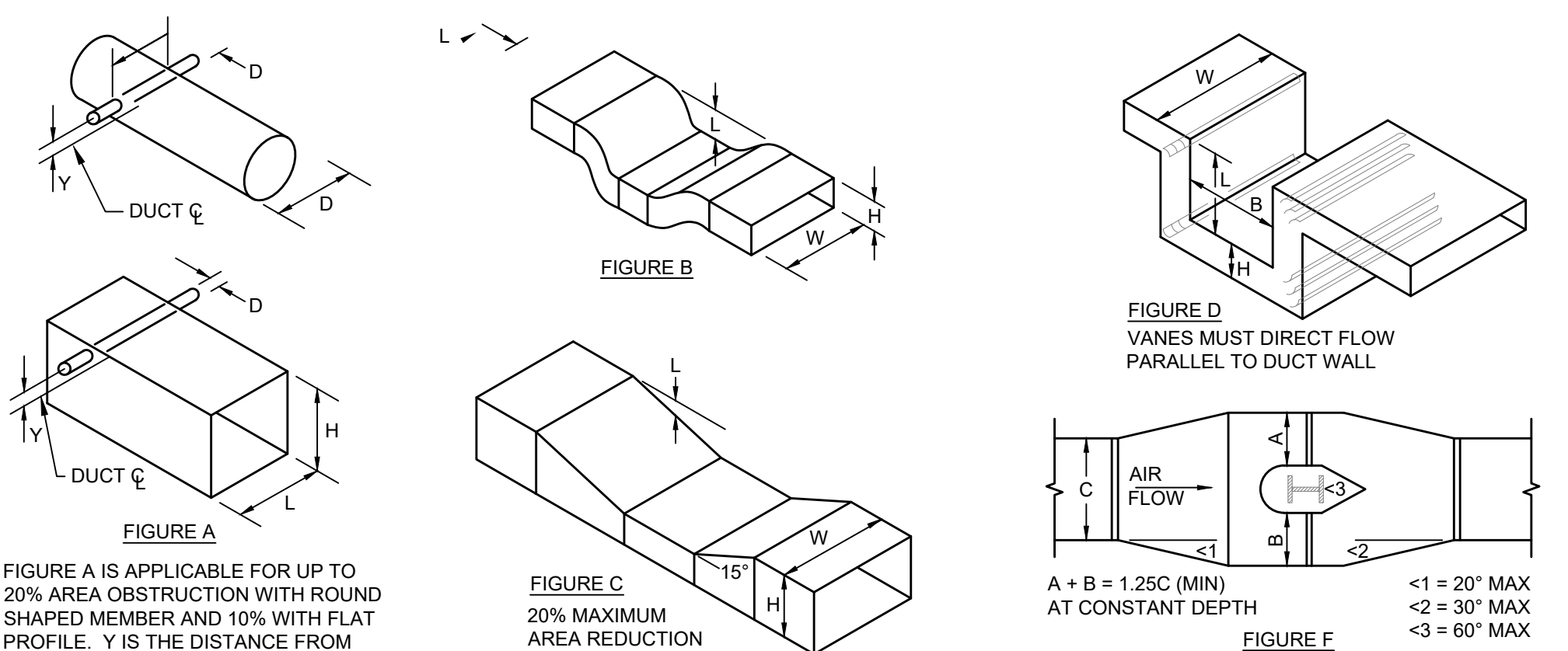
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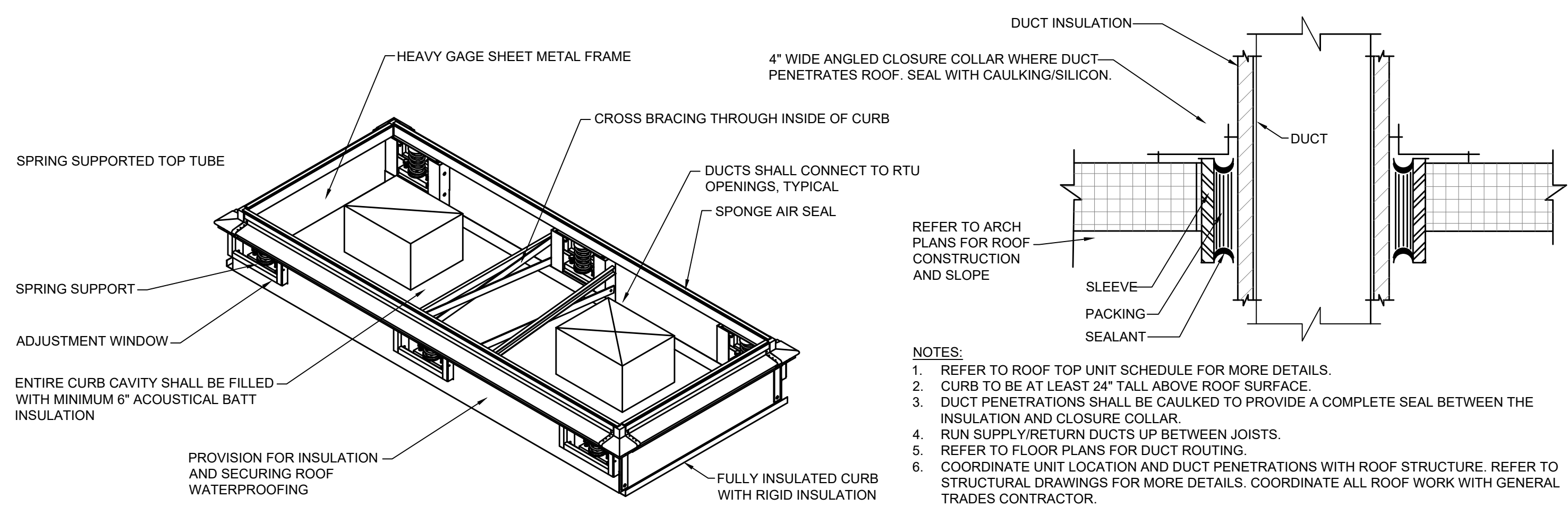
GOOSENECK DETAIL

NOT TO SCALE



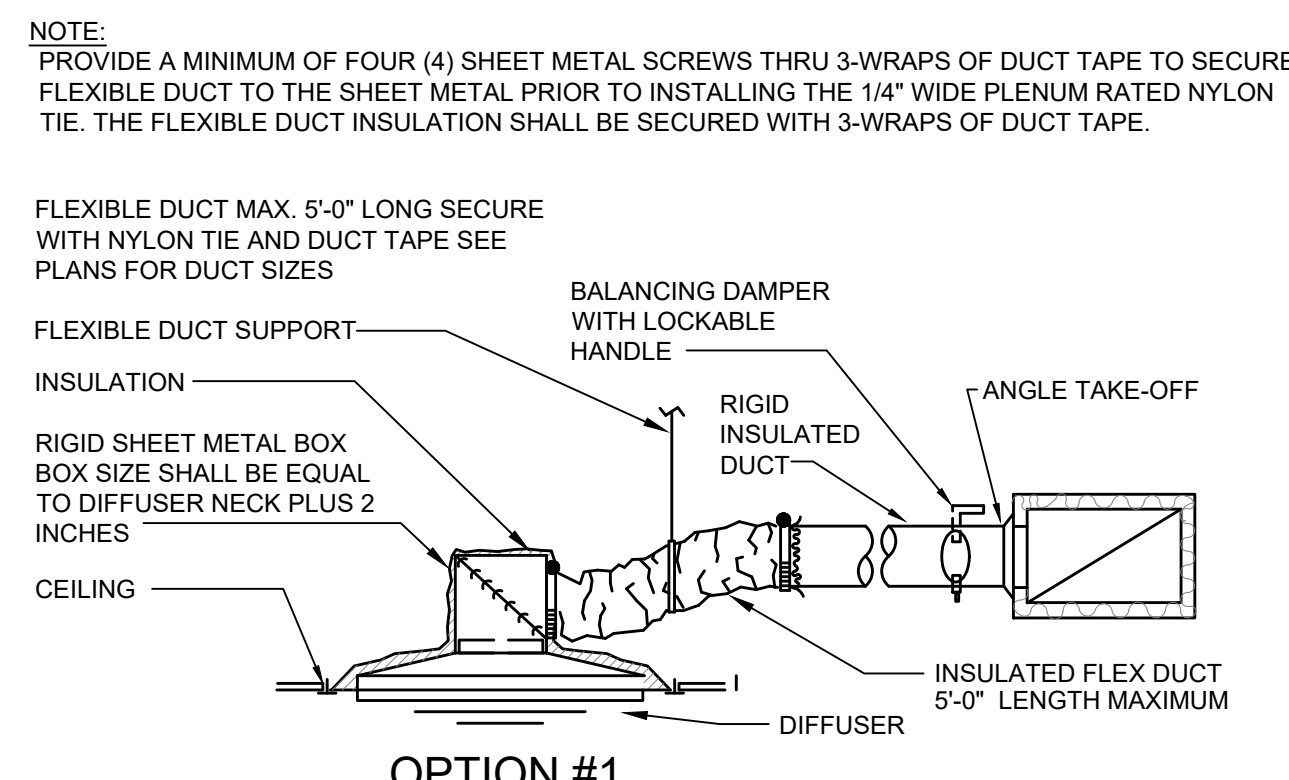
DUCT OBSTRUCTIONS

NOT TO SCALE



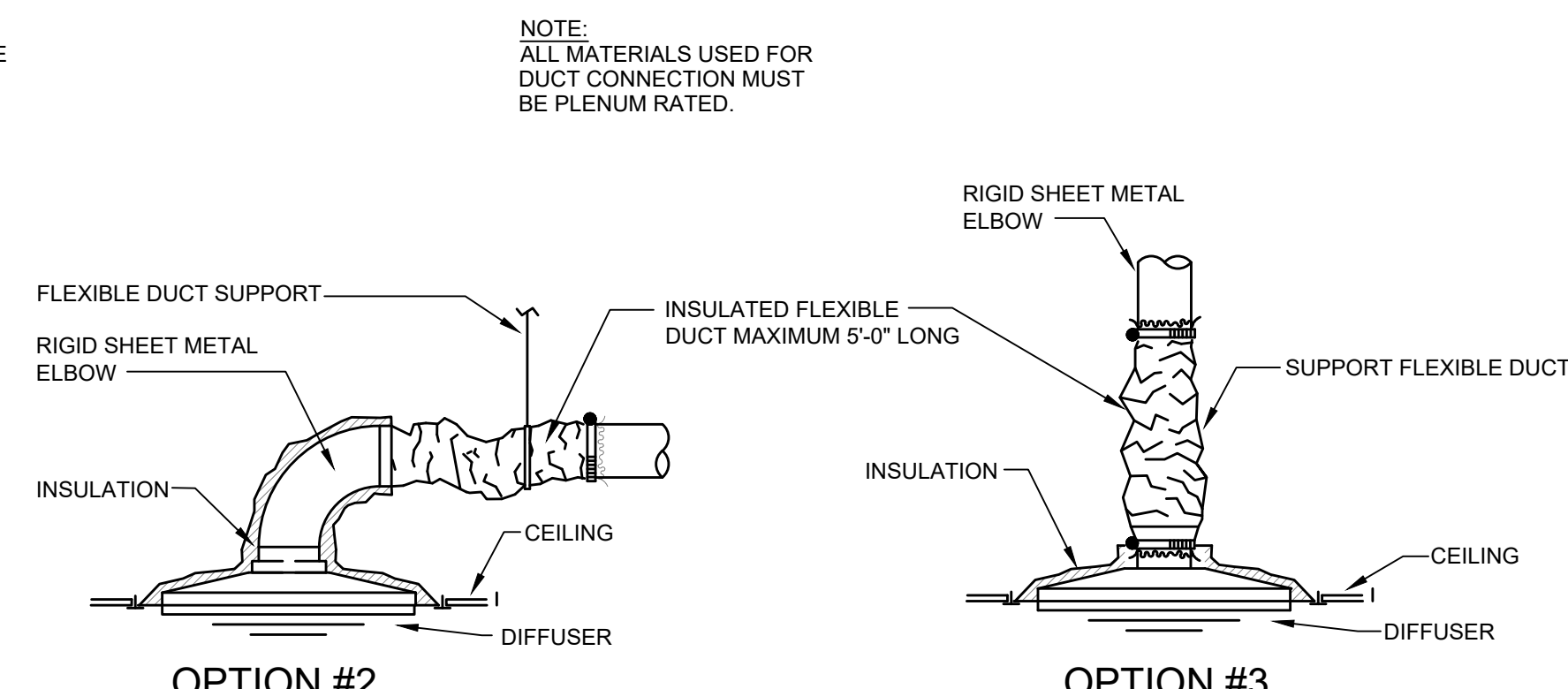
ROOFTOP UNIT VIBRATION ISOLATION CURB DETAIL

NOT TO SCALE



DIFFUSER RUNOUT DETAIL

NOT TO SCALE

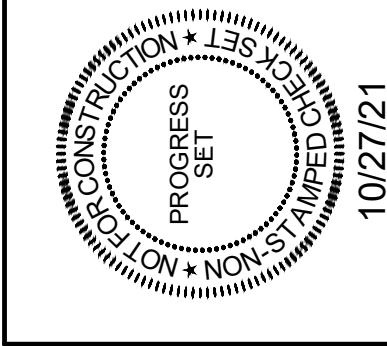


233113

PACKAGED ROOF TOP UNIT SCHEDULE																													
UNIT					COOLING						HEAT PUMP HEATING					AUXILIARY ELECTRIC HEATING				ELECTRICAL			REMARKS						
MARK	MANUFACTURER	MODEL	WEIGHT	EER / SEER	SUPPLY FAN			RETURN/EXHAUST FAN			LAT		TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	COMPRESSOR			TOTAL CAPACITY (MBH)	O/A TEMP (°F)	EAT (°F)	LAT (°F)	TYPE		SIZE	TOTAL CAPACITY (MBH)	EDB/LDB	V/Ø/Hz	MCA	MOCP
					AIRFLOW (CFM)	TSP (inH ₂ O)	MOTOR SIZE (HP)	AIRFLOW (CFM)	TSP (inH ₂ O)	MOTOR SIZE (HP)	LDB (F)	LWB(F)			STAGES	QTY	REFRIGERANT												
RTU-01																													ALL
RTU-02																													ALL
RTU-03																													ALL
REMARKS: 1. COOLING DESIGN CONDITIONS: EAT 75° DB / 62° WB AND 95° DB / 78° WB AMBIENT. HEATING AMBIENT DESIGN CONDITIONS BASED ON 5° DB / 4° WB. 2. AIR SOURCE HEAT PUMP 3. PROVIDE ROOF TOP UNIT WITH ROOF CURB. 4. WITH AUXILIARY ELECTRIC HEAT THAT CAN RUN SIMULTANEOUSLY WITH COMPRESSORS 5. SINGLE POINT POWER CONNECTION WITH FACTORY INSTALLED DISCONNECT SWITCH AND 115V GFI CONVENIENCE OUTLET. 6. ENERGY RECOVERY WHEEL 7. FAN CYCLING CONTROL OPTION 8. HIGH AND LOW PRESSURE SWITCH. 9. COMPRESSOR SHORT CYCLE TIMER. 10. PROVIDE WITH HAIL GUARD. 11. FACTORY MOUNTED DDC CONTROLLERS WITH BACNET INTERFACE. 12. SEE SPECIFICATIONS FOR MORE INFORMATION 13. MODULAR HOT GAS REHEAT 14. VFDS ON SUPPLY AND RETURN FANS. 15. PROVIDE WITH PHASE PROTECTION. 16. PROVIDE WITH SMOKE DETECTOR SHUT DOWN. 17. PROVIDE UNIT WITH CUSTOM COLOR OPTION. COLOR BY ARCHITECT. 18. PROVIDE UNIT WITH 2", 30% EFFICIENCY PRIMARY FILTERS.																													
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: TRANE, XXXXX. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.																													

AIR DEVICE SCHEDULE								
MARK	MANUFACTURER	MODEL	MAX CFM	MODULE	AIR PATTERN	NECK	MAX NC	REMARKS
S-1	PRICE	SCD	600	24x24	4-WAY	12" RD	20	1,3,4
S-2	PRICE	SDGE	800	22x10	DBL DEF.	-		5,6,8,9
R-1	PRICE	530	-	24x24	-	22x22	20	1,3,4,7
T-1	PRICE	530	-	24x24	-	22x22	20	2,3,9
REMARKS: 1. LAY-IN TYPE 2. SURFACE/WALL MOUNTED GRILLE 3. PROVIDE WITH WHITE FINISH 4. COORDINATE AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS PRIOR TO INSTALLATION. LIGHTING HAS PRIORITY OVER HVAC 5. DUCT MOUNTED 6. DOUBLE DEFLECTION GRILLE 7. HINGED FILTER GRILLE WITH MINIMUM TWO THUMB SCREWS 8. PRIMERED TO ACCEPT FIELD PAINTING TO MATCH DUCT 9. OPPOSED BLADE DAMPER								
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: PRICE, TITUS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.								

EXHAUST FAN SCHEDULE												
MARK	MANUFACTURER	MODEL	CFM	ESP (IN H2O)	SONES	DRIVE TYPE	RPM	ELECTRICAL				REMARKS
EF-01	GREENHECK	SP-A90	75	0.2	0.3	DIRECT	900	V/Ø/Hz	HP	NEC FLA	MOCP	ALL
								115/1/60	FRA.C.	0.17	15	
REMARKS: 1. PROVIDE WITH UNIT MOUNTED DISCONNECT 2. PROVIDE WITH UNIT MOUNTED SPEED CONTROL 3. PROVIDE WITH APPROPRIATE BACKDRAFT DAMPER 4. CEILING MOUNTED WITH APPROPRIATE CEILING GRILLE 5. INTERLOCK WITH WALL SWITCH, COORDINATE WITH ELECTRICAL CONTRACTOR												
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: CARNES, GREENHECK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.												



New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:
Newport Primary School
1102 York Street
Newport, Kentucky 41071
Newport Independent Board of Education
Mr. Tony Watts, Superintendent

SHEET TITLE
MECHANICAL
SCHEDULES

BG #
22-056

REH #
149-520

DATE
10/27/2021

M6.1

ELECTRICAL LEGEND

LIGHTING	
SYMBOL	DESCRIPTION
	SURFACE MOUNTED LUMINAIRE (NORMAL & EMERGENCY)
	RECESSED LUMINAIRE (NORMAL & EMERGENCY)
	WALL MOUNTED LUMINAIRE (NORMAL AND EMERGENCY)
	RECESSED LUMINAIRE (NORMAL AND EMERGENCY)
	SURFACE MOUNTED LUMINAIRE (NORMAL AND EMERGENCY)
	LINEAR PENDANT LUMINAIRE (NORMAL AND EMERGENCY)
	CIRCULAR LUMINAIRE (NORMAL AND EMERGENCY)
	WALL BRACKET LUMINAIRE (NORMAL AND EMERGENCY)
	INDUSTRIAL STRIP LUMINAIRE (NORMAL AND EMERGENCY)
	TRACK LUMINAIRE
	CEILING FAN
	TWO-HEAD EMERGENCY LIGHTING UNIT
	EMERGENCY REMOTE HEAD (SINGLE OR DOUBLE)
	EMERGENCY EXIT SIGN WITH COMBINATION EMERGENCY LUMINAIRE WALL AND CEILING MOUNT
	EMERGENCY EXIT SIGN - SINGLE FACE WITH ARROWS AS INDICATED WALL AND CEILING MOUNTED
	EMERGENCY EXIT SIGN - DOUBLE FACE
	POLE MOUNTED LUMINAIRE
	FLOOD OR SPOT LUMINAIRE
	BOLLARD OR POST TOP LUMINAIRE
	LIGHTING CONTROL RISER REFERENCE TAG
	PHOTOCELL
	EMERGENCY POWER PACK
	EMERGENCY BYPASS RELAY (UL924)
	EMERGENCY TRANSFER CONTROL (UL1008)
	BATTERY PACK
	LIGHTING CONTROL POWER PACK
	PORT INJECTOR
	LOW VOLTAGE LIGHTING RELAY PANEL
	PLUG LOAD CONTROL PACK
	ROOM CONTROLLER
	NETWORK BRIDGE
	SYSTEM CONTROLLER
	USER CONTROLLER
	POWER SUPPLY
	TIME CLOCK
	CONTACTOR, POLES AS REQUIRED
	RJ45 CONTROL WIRE SPLITTER
	DAYLIGHT SENSOR
	DUAL TECHNOLOGY LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH POWER PACK AND CEILING MOUNT OR WALL MOUNT BRACKET AS SHOWN.
	DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED, 360° OCCUPANCY SENSOR.
	LIGHTING CONTROL PANEL
	LIGHT SWITCH - SUBSCRIPT INDICATES THE FOLLOWING : 3 - 3 WAY, 4 - 4 WAY, K - KEY OPERATED, D - DIMMER, OS - LINE VOLTAGE OCCUPANCY SENSOR, L - LOW VOLTAGE, M - MANUAL, MOTOR STARTER W/ HANDLE GUARD KIT AND PADLOCK. SEE LIGHTING CONTROL DIAGRAM SHEET FOR OTHER SUBSCRIPTS.

ONE LINE DIAGRAM	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	GROUND FAULT PROTECTION
	VARIABLE FREQUENCY DRIVE
	DIGITAL MONITORING METER
	SURGE PROTECTION DEVICE
	DIGITAL METER DISPLAY
	POWER METERING DEVICE
	NON FUSED SWITCH
	FUSED SWITCH
	FUSE
	RELAY (NORMALLY OPEN)
	PANEL
	DOUBLE THROW SWITCH OR TRANSFER SWITCH
	3 POSITION SELECTOR SWITCH: LOCAL-OFF-REMOTE, HAND-OFF-AUTOMATIC
	GROUND
	ELECTRIC HEATER

POWER	
SYMBOL	DESCRIPTION
	TAMPER RESISTANT DUPLEX RECEPTACLE - SUBSCRIPT INDICATES THE FOLLOWING : C - ABOVE COUNTER, CM - CEILING MOUNTED, E - EMERGENCY, G - GROUND FAULT CIRCUIT INTERRUPTER, GB - BLANK FACE GROUND FAULT INTERRUPT, IG - ISOLATED GROUND, P - SPLIT-WIRED PLUG LOAD CONTROL, WP - WEATHER PROOF, U - WITH USB PORT
	TAMPER RESISTANT QUADRUPEX RECEPTACLE
	TAMPER RESISTANT SINGLE RECEPTACLE
	TAMPER RESISTANT SPECIAL PURPOSE RECEPTACLE
	TAMPER RESISTANT PEDESTAL MOUNTED RECEPTACLE
	TAMPER RESISTANT FLOOR MOUNTED RECEPTACLE AND COVERPLATE. SEE PLAN FOR CONFIGURATION.
	POKE THRU BOX
	COMBO POKE THRU BOX
	COMBINATION FLOOR BOX WITH THREE DUPLEX RECEPTACLES AND RJ45 DATA JACKS. PROVIDE WITH COVERPLATE. INSTALL CATEGORY UTP WET LOCATION CABLES IN A 1 INCH CONDUIT FROM THE DATA COMPARTMENT TO THE NEAREST MDF OR IDF (X - INDICATES THE NUMBER OF JACKS AND CABLES)
	EMERGENCY SHUT-OFF BUTTON
	JUNCTION BOX
	HAND DRYER
	DISCONNECT SWITCH (SIZE/FUSING/POLES/NEMA - OPTIONAL)
	ENCLOSED CIRCUIT BREAKER DISCONNECT (SIZE/POLES/NEMA - OPTIONAL)
	COMBINATION MOTOR STARTER AND DISCONNECT (SIZE/FUSING/POLES/NEMA - OPTIONAL)
	MOTOR STARTER (SIZE/FUSING/POLES/NEMA - OPTIONAL)
	VARIABLE FREQUENCY DRIVE
	MOTOR
	CORD REEL
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT WITH END CAP
	EQUIPMENT CONNECTION
	CONDUIT CONTINUATION
	TRANSFORMER; X - INDICATES IDENTIFICATION
	SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL/AUTOMATIC TRANSFER SWITCH; X - INDICATES IDENTIFICATION
	FLUSH MOUNTED PANELBOARD; X - INDICATES IDENTIFICATION
	EXISTING SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL; X - INDICATES IDENTIFICATION
	EXISTING FLUSH MOUNTED PANELBOARD; X - INDICATES IDENTIFICATION
	GROUND ROD
	LOW-VOLTAGE CIRCUIT WITH CONDUCTOR TYPES AS REQUIRED BY THE MANUFACTURER FOR THE PARTICULAR SYSTEM.
	UTP LIGHTING CONTROL CABLE
	CIRCUIT CONNECTED TO EMERGENCY POWER
	SURFACE MOUNTED RACEWAY
	BRANCH CIRCUIT HOMERUN TO PANELBOARD. THE NUMBER OF TICK MARKS INDICATES THE NUMBER OF CONDUCTORS. LONG TICK MARKS REPRESENT UNGROUNDED CONDUCTORS. SHORT TICK MARKS REPRESENT GROUNDED CONDUCTORS (NEUTRAL). A GROUNDING CONDUCTOR (GROUND) SHALL BE INSTALLED WITH ALL CIRCUITS. TICK MARKS AND CONDUCTOR SIZES ARE ONLY SHOWN ON THE HOMERUN. INSTALL THE REQUIRED QUANTITY AND SIZE CONDUCTORS TO EACH DEVICE ON THE SAME CIRCUIT AS INDICATED ON THE DRAWINGS. MINIMUM CONDUCTOR SIZE = #12 MINIMUM CONDUIT SIZE = 3/4 INCH SUBSCRIPT EXAMPLE 4#8 = (3) UNGROUNDED AND (1) NEUTRAL CONDUCTORS SIZE IF OTHER THAN #12 1#10 = GROUNDING CONDUCTOR SIZE IF OTHER THAN #12 1" C = CONDUIT SIZE A-1 = PANEL NAME - POLE POSITION IN PANEL
	ELECTRICAL METER
	EXISTING UTILITY POLE
	NEW UTILITY POLE
	NEW UTILITY POLE WITH POLE MOUNTED TRANSFORMERS
	EXISTING UTILITY POLE WITH POLE MOUNTED TRANSFORMERS

DEMOLITION vs EXISTING LINE WEIGHTS	
DEMO	EXISTING

FIRE ALARM	
SYMBOL	DESCRIPTION
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM NOTIFICATION DEVICE (WALL & CEILING) - SUBSCRIPT INDICATES THE FOLLOWING : S - STROBE, SS - SPEAKER STROBE, H - HORN, HS - HORN STROBE, SP - SPEAKER
	FIRE ALARM INITIATION DEVICE (WALL & CEILING) - SUBSCRIPT INDICATES THE FOLLOWING : S - SMOKE, H - HEAT, CO - CARBON MONOXIDE, CS - COMBINATION CARBON MONOXIDE/SMOKE, CH - COMBINATION CARBON MONOXIDE/HEAT
	FIRE ALARM INITIATION AND NOTIFICATION DEVICE (WALL & CEILING) - SUBSCRIPT INDICATES THE FOLLOWING : SS - COMBINATION SMOKE DETECTOR/SOUNDER BASE
	FIRE ALARM DUCT TYPE SMOKE DETECTOR - SUBSCRIPT INDICATES EQUIPMENT IDENTIFICATION TAG
	MAGNETIC DOOR HOLDER (WALL & CEILING)
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM FLOW SWITCH
	FIRE ALARM CONTROL PANEL, PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING.
	FIRE ALARM ANNUNCIATOR, PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING.

SYSTEMS	
SYMBOL	DESCRIPTION
	EXISTING COMMUNICATIONS OUTLET
	DATA OUTLET FOR WIRELESS ACCESS POINT WITH TWO RJ45 DATA JACKS WITH TWO UTP CABLES IN SURFACE RACEWAY, 1 INCH CONDUIT OR CABLE TRAY TO THE NEAREST MDF OR IDF (WALL & CEILING)
	VOICE/DATA OUTLET WITH # VOICE AND # OF DATA JACKS AND # UTP CABLES IN SURFACE RACEWAY, 1 INCH CONDUIT, OR CABLE TRAY TO THE NEAREST MDF OR IDF (#V - INDICATES THE NUMBER OF VOICE JACKS AND CABLES, #D - INDICATES THE NUMBER OF DATA JACKS AND CABLES), C - ABOVE COUNTER, CG - CEILING MOUNTED
	PEDESTAL MOUNTED VOICE/DATA OUTLET WITH #VOICE AND # DATA JACKS AND # RJ45 DATA JACKS AND # UTP WET LOCATION CABLES IN A 1 INCH CONDUIT TO THE NEAREST MDF OR IDF (#V - INDICATES THE NUMBER OF VOICE JACKS AND CABLES, #D - INDICATES THE NUMBER OF DATA JACKS AND CABLES)
	FLOOR BOX WITH # RJ45 DATA JACKS. PROVIDE WITH COVERPLATE. INSTALL # UTP WET LOCATION CABLES IN A 1 INCH CONDUIT FROM THE DATA COMPARTMENT TO THE NEAREST MDF OR IDF (# - INDICATES THE NUMBER OF JACKS AND CABLES)
	MULTIMEDIA OUTLET, 4-1 1/16 INCHES OUTLET BOX WITH TWO 1-1/4 INCH CONDUITS TO ABOVE ACCESSIBLE CEILING, (WALL & CEILING)
	VGA/RCA OUTLET WITH ONE VGA CONNECTOR AND TWO RCA CONNECTORS. INSTALL CABLES IN SURFACE RACEWAY, 1-1/4 INCH CONDUIT, J-HOOKS OR CABLE TRAY. THE VGA CABLE MUST BE RAPID RUN TYPE WITH REMOVABLE LEADS OR APPROVED EQUAL.
	TELEVISION OUTLET WITH ONE F-TYPE CONNECTOR WITH COAXIAL CABLE IN SURFACE RACEWAY, 3/4 INCH CONDUIT, OR CABLE TRAY TO THE TELEVISION DISTRIBUTION SYSTEM
	PROJECTOR (CEILING & WALL MOUNT)
	ADMINISTRATIVE CONTROL CENTER. CONNECT TO THE INTERCOM SYSTEM AS REQUIRED
	DOOR RELEASE BUTTON
	INTERCOM SPEAKER (CEILING; RECESSED WALL-MOUNTED; HORN-TYPE WALL MOUNTED)
	INTERCOM SPEAKER WITH INTEGRAL VOLUME CONTROL (CEILING & WALL MOUNT)
	SELF-AMPLIFIED SPEAKER (CEILING & WALL MOUNT)
	SOUND SYSTEM SPEAKER (SC - CAFETERIA; SG - GYMNASIUM; SM - MEDIA CENTER)
	SPEAKER VOLUME CONTROL
	SINGLE SIDED CLOCK (DIGITAL & ANALOG)
	DOUBLE SIDED CLOCK (DIGITAL & ANALOG)
	MICROPHONE OUTLET
	AUXILIARY INPUT OUTLET FOR THE LOCAL SOUND SYSTEM
	INTERCOM CALL BUTTON
	CABLE TRAY. MINIMUM DIMENSIONS AS INDICATED ON DRAWINGS.
	J-HOOK PATHWAY
	FLOOR MOUNTED FOUR POST DATA RACK, 84 INCHES TALL, 30 INCHES DEEP, WITH VERTICAL WIRE MANAGEMENT.
	FLOOR MOUNTED TWO POST DATA RACK, 84 INCHES TALL, 30 INCHES DEEP, WITH VERTICAL WIRE MANAGEMENT.
	DOORBELL PUSH BUTTON
	DOORBELL AUDIO/VISUAL NOTIFICATION DEVICE
	SECURITY SYSTEM SIREN
	SECURITY INTERCOM STATION
	SECURITY SYSTEM KEY PAD
	SECURITY SYSTEM CARD READER
	SECURITY SYSTEM AUDIO SENSOR
	SECURITY SYSTEM MOTION DETECTOR (CEILING & WALL); X - DEGREE OF MOTION
	CEILING MOUNTED SECURITY SYSTEM CAMERA
	WALL MOUNTED SECURITY SYSTEM CAMERA
	DOOR CONTACT/POSITION SWITCH
	PRESS PLATE FOR AUTOMATIC DOOR OPERATOR
	ACCESS POINTS WITH ELECTRIFIED DOOR HARDWARE
	SOUND SYSTEM ANTENNA

ABBREVIATIONS	
±10'	+10' INDICATES THE MOUNTING HEIGHT OF THE DEVICE TO BOTTOM.
1Ø	1-PHASE
3Ø	3-PHASE
ATS	AUTOMATIC TRANSFER SWITCH
BTM	BOTTOM
C	DEVICE TO BE INSTALLED 4 INCHES ABOVE COUNTER BACKSPLASH.
CT	CURRENT TRANSFORMER
GF	GROUND FAULT PROTECTION
GND	GROUND
KWH	KILO WATT HOUR
PT	POTENTIAL TRANSFORMER
SPD	SURGE PROTECTIVE DEVICE
T	DEVICE TO BE WALL MOUNTED 72 INCHES ABOVE FINISHED FLOOR.
UTP	UNSHIELDED TWISTED PAIR
W	DEVICE TO BE WALL MOUNTED 48 INCHES ABOVE FLOOR.
WG	PROVIDE DEVICE WITH MANUFACTURER'S WIREGUARD.
WP	PROVIDE DEVICE WITH WEATHERPROOF COVER. RECEPTACLES TO BE WEATHER-RESISTANT TYPE AND PROVIDED WITH A CAST ALUMINUM, EXTRA DUTY, WHILE-IN-USE COVER.

ELECTRICAL DEVICE MOUNTING HEIGHTS	
SWITCHES	48 INCHES TO TOP
INTERIOR RECEPTACLES	16 INCHES TO BOTTOM
EXTERIOR RECEPTACLES	24 INCHES TO BOTTOM
COMMUNICATIONS / DATA OUTLETS	16 INCHES TO BOTTOM
FIRE ALARM MANUAL PULL STATIONS	48 INCHES TO TOP
FIRE ALARM HORN/STROBE SIGNAL	80 INCHES TO BOTTOM
FIRE ALARM STROBE SIGNAL	80 INCHES TO BOTTOM
WALL TELEPHONES	48 INCHES TO TOP
TELEVISION OUTLETS	72 INCHES TO BOTTOM
CLOCKS	96 INCHES TO TOP
NOTE: MOUNTING HEIGHTS UNLESS OTHERWISE NOTED ON DRAWINGS.	

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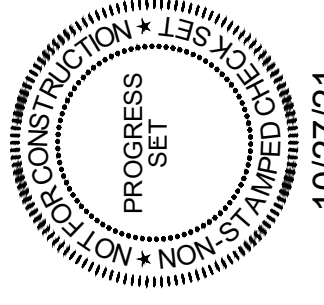
SHEET TITLE
ELECTRICAL
LEGEND

BG #
22-056

REH #
149-520

DATE
10/27/2021

E0.1



KITCHEN EQUIPMENT SCHEDULE								
#	DESCRIPTION	KW	HP	V/PH	AMPS	CONN	PLUG CONFIG.	WIRE/ CONDUIT
1	WALK-IN FREEZER/COOLER			120/1 115/1 120/1	20 5 20	DIR PLUG PLUG	-	(3) 3#12, 1#12G, 3/4"C
1B	CONDENSING UNIT FREEZER		1 1/4	208/3	13	DIR	-	3#12, 1#12G, 3/4"C
1D	CONDENSING UNIT COOLER		1/2	208/1	11	DIR	-	2#12, 1#12G, 3/4"C
12	HOOD SYSTEM - CANOPY	0.24, .48	-	(2) 120/1	2.5, 5	DIR	-	(2) 2#12, 1#12G, 3/4"C
12	HOOD SYSTEM - EXHAUST FAN		1 1/2	208/3	-	DIR	-	-
	HOOD SYSTEM - MAKE UP AIR	3.5	2	208/3	15.75	DIR	-	3#12, 1#12G, 3/4"C
13	COMBI OVEN - DBL. STACK			208			-	
14	CONVECTION OVEN - DBL. STACK	1.1	-	(2) 120/1	7.2	PLUG	5-15P	2#12, 1#12G, 3/4"C
15	TILT SKILLET - 30 GAL. TILTING	0.21	-	120/1	1.4	PLUG	5-15P	2#12, 1#12G, 3/4"C
17	KETTLE - 12 GAL. TILTING ON STAND	0.75	-	120/1	5	PLUG	5-15P	2#12, 1#12G, 3/4"C
18	HOT WATER DISPENSER	5	-	208/1	24	PLUG	6-30P	2#10, 1#10G, 3/4"C
20	SLICER	-	1/2	120/1	5.6	PLUG	5-15P	2#12, 1#12G, 3/4"C
23	PASS-THRU HEAT & HOLD	12	-	208/3	50	PLUG	L15-50P	3#6, 1#10G, 1"C
26	PASS-THRU REFRIGERATOR	-	1/3	115/1	6.5	PLUG	5-15P	2#12, 1#12G, 3/4"C
27	REACH-IN HEAT & HOLD	-	-	208/3	50	PLUG	15-50P	3#10, 1#10G, 3/4"C
28	FOOD PROCESSOR	-	1/3	120/1	3.5	PLUG	5-15P	2#12, 1#12G, 3/4"C
37	MILK COOLER - 16 CRATE	-	1/5	115/1	2.7	PLUG	5-15P	2#12, 1#12G, 3/4"C
38	HOT FOOD TABLE	2.3	-	120/208/1	18.7	PLUG	L14-30P	4#10, 1#10G, 3/4"C
40	REFRIGERATED COLD FOOD TABLE	-	1/3	120/1	7.6	PLUG	5-15P	2#12, 1#12G, 3/4"C
42	P.O.S. SYSTEM			115/1		PLUG		-
45	DISPOSER	-	2	208/3	6	DIR	-	3#12, 1#12G, 3/4"C
47	CONDENSATE HOOD	-	1/2	120/1	9.8	DIR	-	2#12, 1#12G, 3/4"C
48	DISHWASHER - DOOR TYPE			208/3	60	DIR	-	3#4, 1#10G, 1 1/4"C
52	WASHER/DRYER							

NOTES:
1. EXHAUST AND MAKE-UP AIR FAN MOTORS ARE TO COMBINED TO A SINGLE POINT ELECTRICAL CONNECTION.
2.

GENERAL NOTES:

DEMOLITION

- A. ALL ELECTRICAL ITEMS SHOWN AS LIGHTER WEIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- B. ALL ELECTRICAL ITEMS SHOWN IN HEAVIER WEIGHT SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- C. THE CONDUIT, CONDUCTORS, HANGERS, SUPPORTS, CONCRETE BASES, HOUSEKEEPING PADS, AND ANY OTHER ITEMS ASSOCIATED WITH EQUIPMENT SHOWN TO BE REMOVED SHALL ALSO BE REMOVED UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE REMOVED BACK TO THE SOURCE. ALL ACCESSIBLE CONDUITS SHALL BE REMOVED. EXISTING UNDERGROUND CONDUITS MAY BE ABANDONED IN PLACE AFTER THEIR ENDS HAVE BEEN REMOVED TO A MINIMUM OF 30 INCHES BELOW GRADE AND CAPPED.
- D. WHERE ANY EXISTING ELECTRICAL ITEMS ARE SHOWN TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL RECONNECT WIRING AS REQUIRED TO ENSURE ALL DOWNSTREAM DEVICES REMAIN OPERATIONAL.
- E. REMOVE ALL EXISTING AND ACCESSIBLE ABANDONED LOW VOLTAGE CABLING. ACCESSIBLE AREAS INCLUDE, BUT NOT LIMITED TO, ABOVE LAY-IN CEILINGS, BELOW RAISED FLOORS AND EXPOSED LOCATIONS.
- F. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHERE WALLS, SLABS AND MATERIALS HAVE BEEN CUT, REMOVED OR MODIFIED AS A RESULT OF DEMOLITION. PATCHING AND REPAIRS SHALL MATCH THE ADJACENT EXISTING MATERIALS, RATINGS AND FINISHES.
- G. REFER TO THE MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR LOCATION OF EQUIPMENT REQUIRING ELECTRICAL DEMOLITION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING EQUIPMENT AND DEMOLISHING THE ASSOCIATED CONDUIT, CONDUCTORS, DISCONNECTS, STARTERS, ETC.
- H. ALL EXISTING ITEMS SHOWN HAVE BEEN COMPILED FROM SITE SURVEYS, RECORD DRAWINGS AND VISUAL SITE INSPECTIONS. ALL ITEMS TO BE REMOVED MAY NOT BE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH THE EXTENT OF THE DEMOLITION WORK REQUIRED.
- I. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL EXISTING SYSTEMS ACTIVE UNTIL THEY ARE DEMOLISHED IN THEIR RESPECTIVE PHASES. PROVIDE ALL TEMPORARY CONNECTIONS AS REQUIRED. COORDINATE ALL DEMOLITION WORK WITH THE TIMING/SEQUENCE OF NEW WORK.
- J. WHERE THE CONTRACT DOCUMENTS INCLUDE THE REMOVAL OF THE EXISTING CEILINGS, EXISTING CEILING MOUNTED DEVICES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED, SUPPORTED IN-PLACE AND REINSTALLED IN THE NEW CEILING.
- K. PROVIDE BLANK COVERPLATES OVER RECESSED JUNCTION BOXES WHERE DEVICES ARE REMOVED.

LIGHTING

- A. THE CONTRACTOR SHALL INSTALL THE REQUIRED NUMBER OF CONDUCTORS BETWEEN SWITCHES, LIGHT FIXTURES AND ASSOCIATED DEVICES FOR A COMPLETE AND WORKING SYSTEM. PROVIDE SINGLE-LEVEL OR DUAL-LEVEL SWITCHING, THREE-WAY SWITCHING OR OTHER SWITCHING METHOD AS INDICATED ON THE DRAWINGS.
- B. INSTALL AN UNSWITCHED CONDUCTOR TO ALL EXIT LIGHTS, EMERGENCY LIGHTS AND ALL OTHER FIXTURES USED FOR EMERGENCY ILLUMINATION AND SUPPLIED WITH INTEGRAL OR EXTERNAL BATTERIES. INSTALL A NORMAL UNSWITCHED CONDUCTOR TO ALL EMERGENCY RELAYS WHEN EMERGENCY POWER IS PROVIDED BY A GENERATOR OR MEANS OTHER THAN BATTERY POWER. THE UNSWITCHED CONDUCTOR SHALL BE FED FROM THE SAME CIRCUIT AS THE SWITCHED CONDUCTOR(S).
- C. CABLING ASSOCIATED WITH THE LOW VOLTAGE LIGHTING CONTROLS, INCLUDING DIMMING, NETWORK AND CONTROL CABLES, SHALL BE INSTALLED AND SUPPORTED IN A SIMILAR MANNER AS THE TELECOMMUNICATIONS CABLING. CABLING SHALL BE INSTALLED IN CONDUIT WHEN LOCATED IN AREAS WITH EXPOSED CEILINGS OR STRUCTURES, ABOVE INACCESSIBLE CEILINGS AND WHERE LOCATED WITHIN WALLS. CABLING INSTALLED ABOVE ACCESSIBLE, CONCEALED CEILINGS SHALL BE INSTALLED IN CONDUIT OR SHALL BE SUPPORTED BY J-HOOKS. THE CABLING SHALL BE INSTALLED SEPARATE FROM LINE VOLTAGE CONDUCTORS AND TELECOMMUNICATIONS CABLING. J-HOOKS MAY BE ATTACHED TO THE OUTSIDE OF THE TELECOMMUNICATIONS CABLE TRAY, IF AVAILABLE, PROVIDING THE MAXIMUM RATED WEIGHT CAPACITY OF THE CABLE TRAY IS NOT EXCEEDED.

SYSTEMS

- A. ALL FIRE ALARM CABLING SHALL BE INSTALLED WITHIN A MINIMUM OF 3/4 INCH CONDUIT.
- B. ALL ELECTRICALLY CONDUCTIVE CABLES INSTALLED OUTDOORS SHALL BE PROVIDED WITH SURGE PROTECTION DEVICE(S). THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: FIRE ALARM CABLING FOR TAMPER SWITCHES, EXTERIOR MOUNTED SECURITY CAMERA CABLING, EXTERIOR MOUNTED SPEAKER CABLING AND CABLING BETWEEN SEPARATE BUILDINGS.
- C. INSTALL A DEDICATED 4-PAIR CATEGORY 6A TELEPHONE CABLE FROM THE TELEPHONE DEMARCACTION TO THE FIRE ALARM COMMUNICATOR/TRANSMITTER. CONNECT CABLE AHEAD OF ANY TELEPHONE SYSTEM AS REQUIRED FOR THE COMMUNICATOR/TRANSMITTER TO CAPTURE TWO TELEPHONE LINES.
- D. CONNECT EXISTING FIRE ALARM SYSTEM TELEPHONE LINE TO NEW FIRE ALARM CONTROL PANEL AS REQUIRED.

SURFACE RACEWAY

- A. ALL SURFACE RACEWAYS SHALL BE WIREMOLD 700, AND 2400 SERIES OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
- B. 700 SERIES SHALL BE USED FOR RECEPTACLES, SWITCHES AND FIRE ALARM DEVICES. 2400 SERIES SHALL BE INSTALLED FOR VOICE AND DATA CABLING.
- C. ALL SURFACE RACEWAY IS TO BE MOUNTED ON EXISTING WALLS ONLY. USE SUPPORTING CLIPS AND NOT MOUNTING STRAPS. THE CONTRACTOR HAS THE OPTION TO FISH FLEXIBLE CONDUIT DOWN EXISTING WALLS IN LIEU OF USING SURFACE RACEWAY.
- D. COORDINATE THE ROUTING OF ALL RACEWAY WITH WALL MOUNTED FURNISHINGS (I.E. TACKBOARDS, MARKERBOARDS, INTERACTIVE WHITEBOARDS, ETC.).

CABLING

- A. ALL EXPOSED LOW VOLTAGE CABLING SHALL BE PLENUM RATED.

KITCHEN

- A. THE ELECTRICAL CONTRACTOR IS TO MAKE ALL ELECTRICAL CONNECTIONS BETWEEN THE KITCHEN HOOD AND ASSOCIATED ROOF-TOP MECHANICAL UNITS. COORDINATE ALL REQUIREMENTS AND CONNECTION LOCATIONS.
- B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONNECTIONS BETWEEN THE KITCHEN HOOD CONTROL PANEL AND THE FIRE ALARM SYSTEM, KITCHEN HOOD MAKE-UP AIR UNIT SUPPLY FAN MOTOR(S) AND THE SHUNT-TRIP BREAKERS SERVING WITH THE KITCHEN EQUIPMENT. IN THE EVENT THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED, THE FIRE ALARM SYSTEM SHALL ACTIVATE, THE SHUNT-TRIP BREAKERS SHALL TRIP AND THE SUPPLY FAN MOTOR(S) SHALL SHUT-OFF.
- C. WHERE RECEPTACLES ARE LOCATED IN THE KITCHEN. ALL 120 VOLT AND 208 VOLT SINGLE PHASE RECEPTACLES RATED 50 AMPS OR LESS AND ALL 208 VOLT THREE-PHASE RECEPTACLES RATED 100 AMPS OR LESS SHALL BE GFCI PROTECTED.
- D. INSTALL AN APPROPRIATE SEALING CONDUIT FITTING AT EACH LOCATION CONDUIT ENTERS THE WALK-IN COOLER/FREEZER. SEAL WITH AN APPROVED SEALING COMPOUND.
- E. KITCHEN EQUIPMENT ELECTRICAL LAYOUT AND POWER REQUIREMENTS ARE SHOWN FOR BID PURPOSES ONLY. COORDINATE ALL KITCHEN EQUIPMENT ELECTRICAL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH THE REVIEWED KITCHEN SHOP DRAWINGS AND THE KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION OF ANY CIRCUITS SERVING THE KITCHEN EQUIPMENT.
- F. PROVIDE AN OCCUPANT NOTIFICATION SYSTEM IN THE KITCHEN CONSISTING OF A COMBINATION AUDIBLE AND VISUAL NOTIFICATION DEVICE IN THE KITCHEN WORK AREA WITH A PUSHBUTTON ACTUATOR LOCATED AT THE EXTERIOR ENTRANCE TO THE KITCHEN. REFER TO THE KITCHEN PLAN FOR LOCATIONS. THE AUDIBLE/VISUAL DEVICE SHALL BE 120V WITH CLEAR LENS, EDWARDS 869STRC-N5 OR EQUIVALENT. THE PUSHBUTTON SHALL BE 120V, MOMENTARY CONTACT WITH STAINLESS STEEL COVERPLATE, EDWARDS 852 OR EQUIVALENT.

ELEVATOR

- A. PROVIDE ALL CONNECTIONS BETWEEN THE FIRE ALARM SYSTEM, SHUNT-TRIP BREAKER, AND THE ELEVATOR CONTROLLER. THE FIRE ALARM SYSTEM SHALL MONITOR THE SHUNT-TRIP CIRCUIT, OPERATE/ OPEN THE SHUNT-TRIP BREAKER, AND INITIATE ELEVATOR RECALL.
- B. ALL NON-ELEVATOR RELATED CONDUITS AND EQUIPMENT SHALL BE PROHIBITED FROM ENTERING OR PASSING THROUGH THE ELEVATOR MACHINE ROOM.

INTERRUPTIONS OF SERVICE

- A. THE BUILDING SERVICES AND SYSTEMS SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF THE PROJECT. IF INTERRUPTIONS TO ANY SERVICE OR SYSTEM ARE NECESSARY TO FACILITATE COMPLETING THE PROJECT, THE CONTRACTOR SHALL:
- A.A. APPRISE THE OWNER OF ANTICIPATED INTERRUPTIONS IN ADVANCE AND SCHEDULE FOR TIMES THAT ARE CONVENIENT TO THE OWNER AND ALL OTHER AFFECTED PARTIES.
- A.B. COORDINATE AN ACCEPTABLE DURATION AND WORK AS NECESSARY TO MEET THE AGREED UPON SCHEDULE.
- A.C. NO INTERRUPTIONS SHALL OCCUR PRIOR TO RECEIVING WRITTEN APPROVAL FROM THE OWNER AND ALL OTHER AFFECTED PARTIES.
- B. FOR UNPLANNED INTERRUPTIONS, THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE THE AFFECTED SERVICE(S) AND SYSTEM(S).

New Fire Alarm System & Renovations to the Kitchen, Cafeteria, and Gymnasium for:

Newport Primary School
1102 York Street
Newport, Kentucky 41071

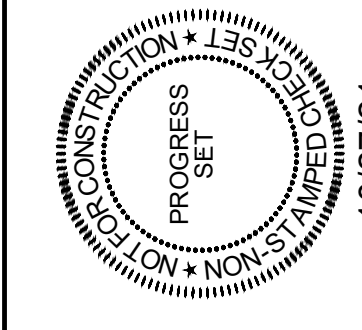
Newport Independent Board of Education

Mr. Tony Watts, Superintendent

SHEET TITLE
ELECTRICAL
GENERAL NOTES

BG #
22-056
REH #
149-520
DATE
10/27/2021

E0.2





1 PARTIAL FIRST FLOOR - ELECTRICAL DEMOLITION
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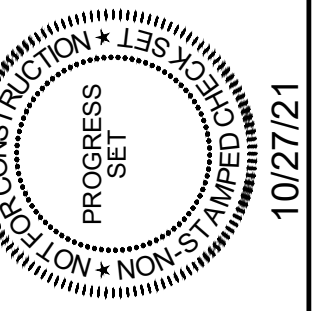


GENERAL NOTES:

A. REFER TO SHEET E0.1 FOR GENERAL NOTES.

SHEET KEYNOTES:

1. XXX



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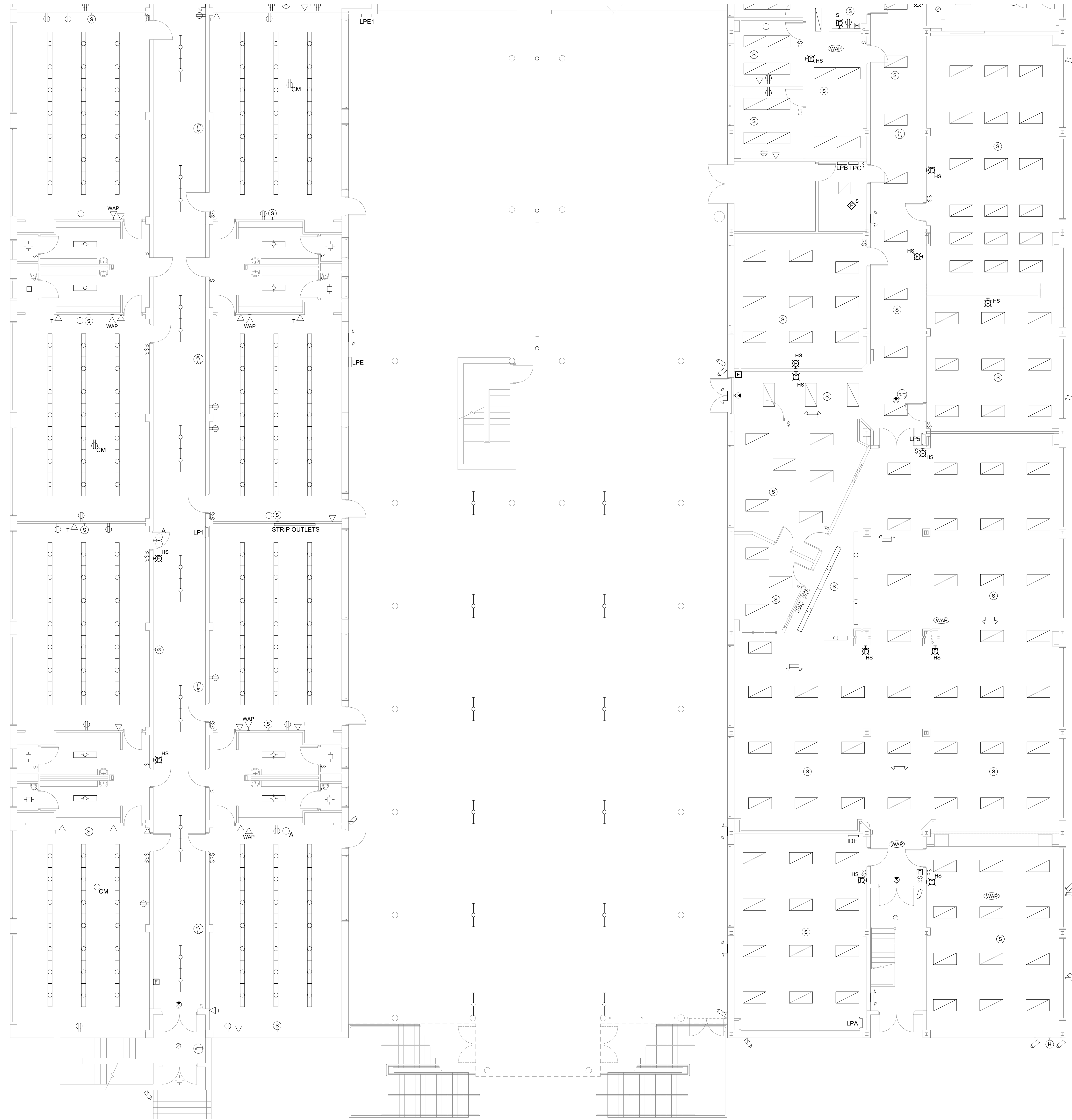
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PARTIAL
FIRST FLOOR
ELECTRICAL
DEMOLITION

BG #
22-056

REH #
149-520

DATE
10/27/2021

ED1.1



GENERAL NOTES:

A. REFER TO SHEET E0.1 FOR GENERAL NOTES.

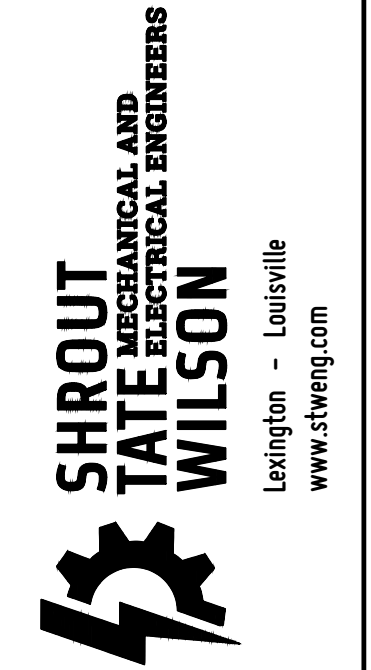
SHEET KEYNOTES:

1. EXISTING CONNECTION TO RANGE HOOD FIRE SUPPRESSION SYSTEM TO BE REPLACED WITH NEW.

1 PARTIAL FIRST FLOOR - ELECTRICAL DEMOLITION

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

0 4' 8' 16'



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SHEET TITLE
PARTIAL
FIRST FLOOR
ELECTRICAL
DEMOLITION

BG #
22-056

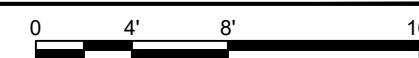
REH #
149-520

DATE
10/27/2021

ED1.2



1 PARTIAL SECOND FLOOR - ELECTRICAL DEMOLITION
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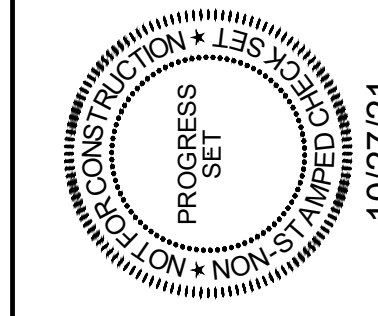


GENERAL NOTES:

A. REFER TO SHEET E0.1 FOR GENERAL NOTES.

SHEET KEYNOTES:

- KEYNOTES
- XXX
- XXX
- XXX
- XXX



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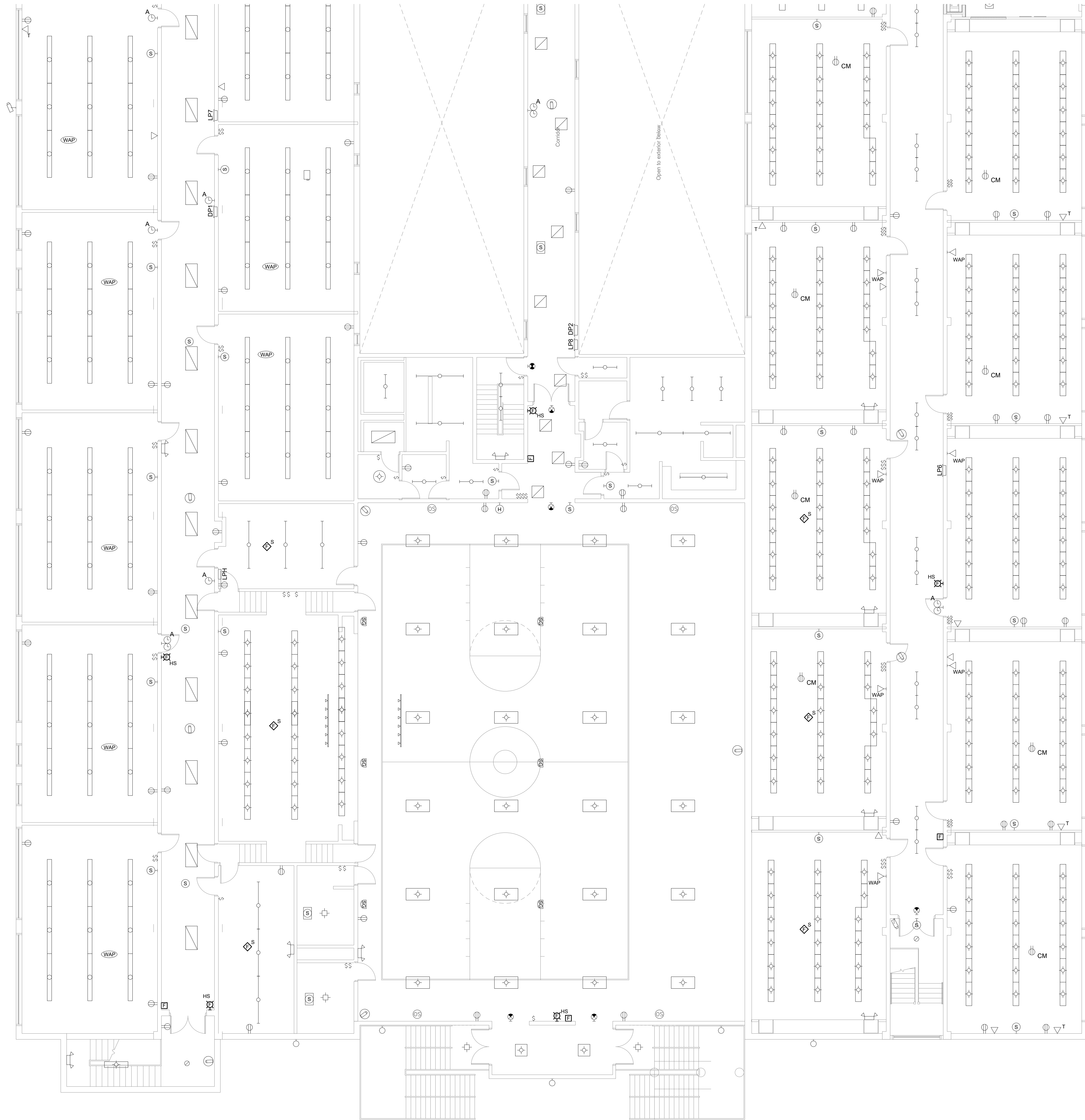
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PARTIAL
SECOND FLOOR
ELECTRICAL
DEMOLITION

BG #
22-056

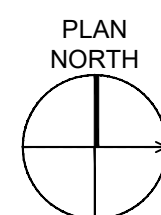
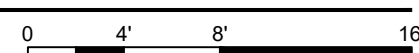
REH #
149-520

DATE
10/27/2021

ED1.3



1 PARTIAL SECOND FLOOR - ELECTRICAL DEMOLITION
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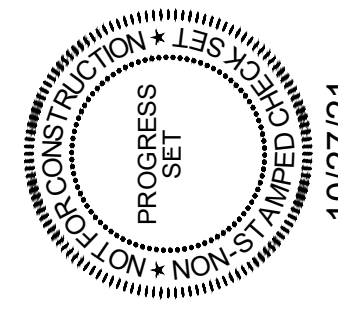


GENERAL NOTES:

A. REFER TO SHEET E0.1 FOR GENERAL NOTES.

SHEET KEYNOTES:

- KEYNOTES
- XXX
- XXX
- XXX
- XXX



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SHEET TITLE
PARTIAL
SECOND FLOOR
ELECTRICAL
DEMOLITION

BG #
22-056

REH #
149-520

DATE
10/27/2021

ED1.4



1

PARTIAL FIRST FLOOR - LIGHTING

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

0 4 8

PLAN

NORTH



GENERAL NOTES:

A. REFER TO SHEET XXX FOR GENERAL NOTES.

SHEET KEYNOTES:

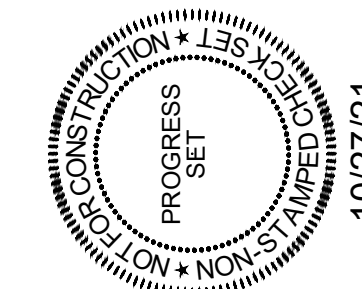
- 1. KEYNOTES
- 2. XXX
- 3. XXX
- 4. XXX
- 5. XXX

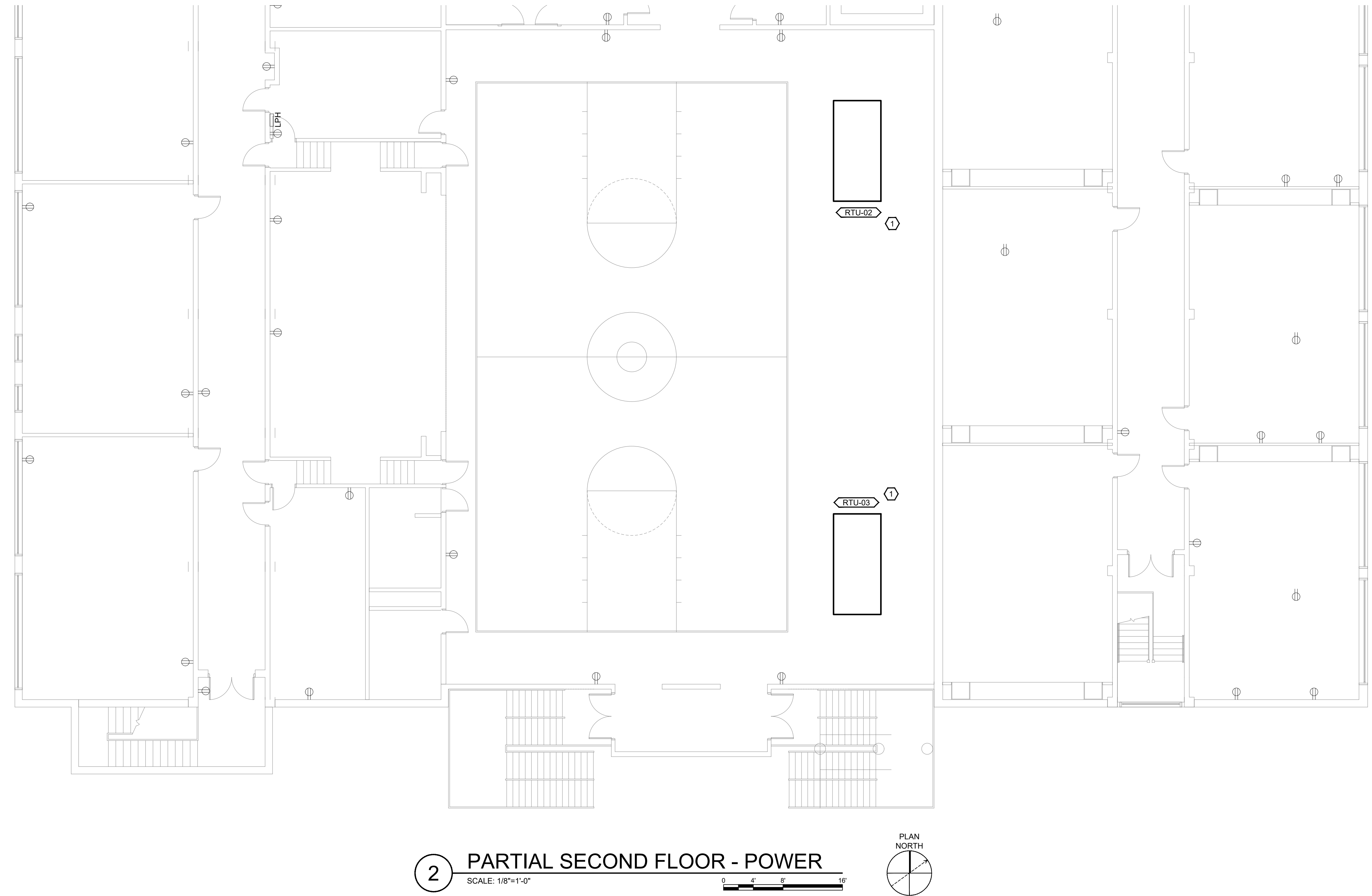
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SHEET TITLE
PARTIAL
FLOOR PLANS
LIGHTING

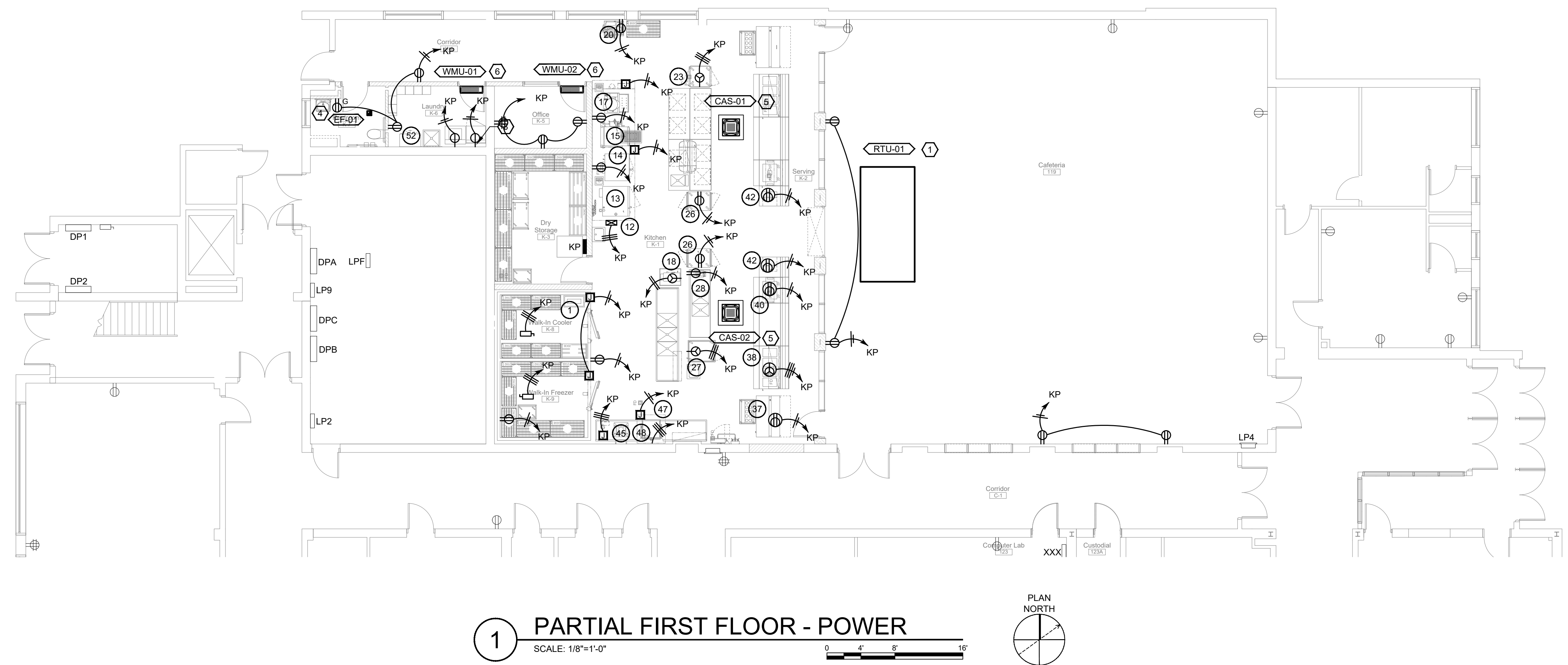
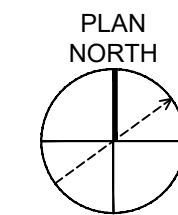
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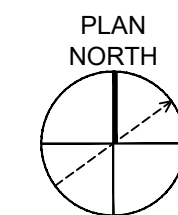




2 PARTIAL SECOND FLOOR - POWER
SCALE: 1/8"=1'-0"



1 PARTIAL FIRST FLOOR - POWER
SCALE: 1/8"=1'-0"

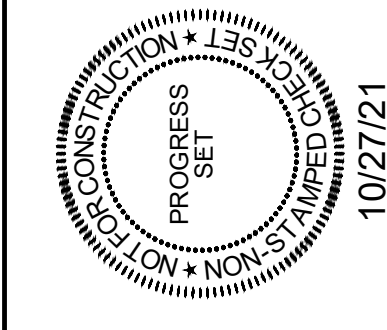


GENERAL NOTES:

A. REFER TO SHEET XXX FOR GENERAL NOTES.

SHEET KEYNOTES:

- 1. KEYNOTES
- 2. XXX
- 3. XXX
- 4. XXX
- 5. XXX



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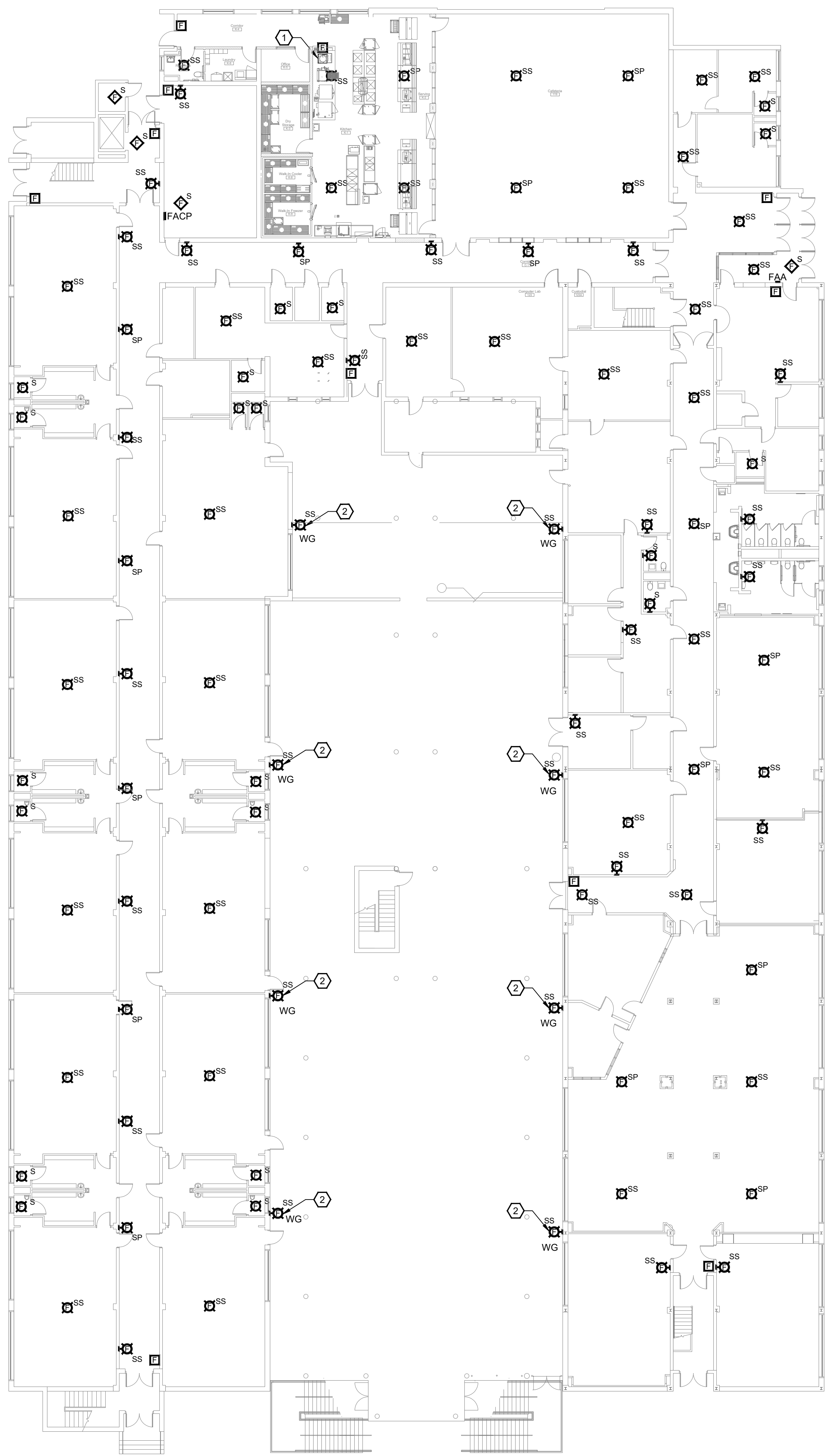
SHEET TITLE
PARTIAL
FLOOR PLANS
POWER

BG #
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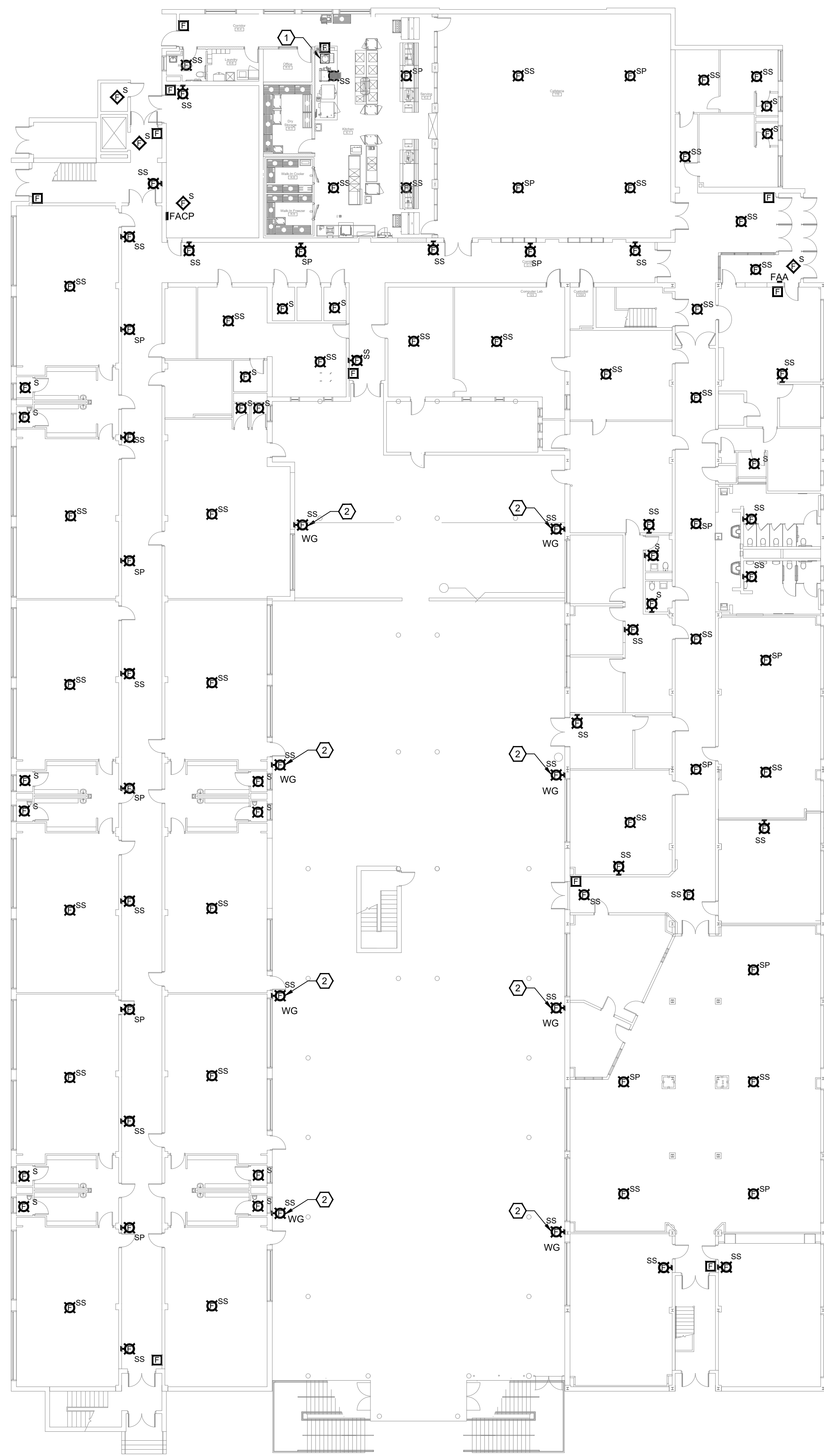
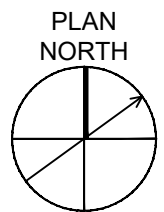
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E2.1



1 OVERALL FIRST FLOOR - SYSTEMS
SCALE: 1/16"=1'-0"



2 OVERALL SECOND FLOOR - SYSTEMS
SCALE: 1/16"=1'-0"

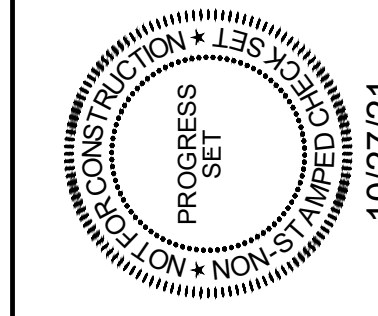


GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR GENERAL NOTES.
2. COORDINATE LOCATION OF NEW DEVICES WITH EXISTING LIGHT FIXTURES, SPEAKERS, FURNITURE, ETC.

SHEET KEYNOTES:

1. PROVIDE FIRE ALARM CONNECTION TO EXISTING KITCHEN HOOD SUPPRESSION SYSTEM AS REQUIRED.
2. PROVIDE OUTDOOR RATED DEVICE.



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SHEET TITLE
OVERALL
FLOOR PLANS
SYSTEMS

BG #
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E3.1