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REVISION SCHEDULE

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ARCHITECT: JAY
 DRAWN BY: TW, TD, KW, KS
 CHECKED BY: KW, JS, JAY

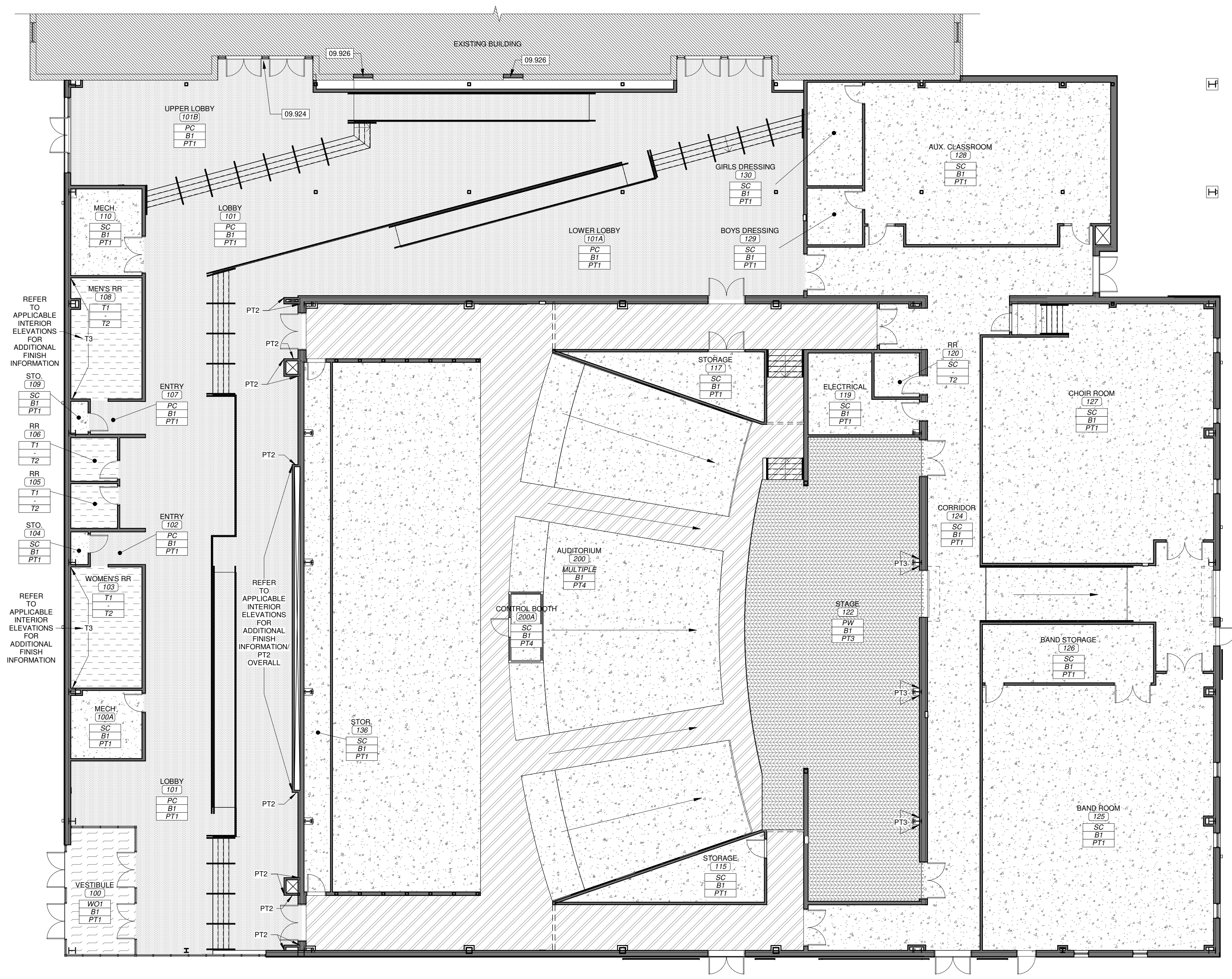
PROJECT NUMBER:
21-620

DATE:
 2023.05.17

FINISH PLAN

SHEET NUMBER:
A9-0

KEYNOTE LEGEND	
09.924	TOUCH UP EXISTING PAINT AT NEW STOREFRONT INSTALLATION
09.926	PAINT TO MATCH EXISTING PAINT COLOR.



FINISH PLAN LEGEND

- PW:** PLYWOOD
 FIRE-RESISTANT PLYWOOD, TONGUE AND GROOVE, PAINTED; PT7
 NOTE: REFERENCE STRUCTURAL.
- CP1:** CARPET TILE
 MANUFACTURER: MILLIKEN, PRODUCT: ALLOY, COLOR: BRASS, SIZE: 10"x39.25", PATTERN: MONOLITHIC.
- WO1:** WALK OFF CARPET
 MANUFACTURER: SHAW CONTRACT, PRODUCT: JIVE TILE, COLOR: STEP, SIZE: 24"x24", PATTERN: MONOLITHIC.
- PC:** POLISHED CONCRETE, POAEC 11.17 AGGREGATE EXPOSURE, CLASS B, PCAC 11.17 APPEARANCE, LEVEL 2.
- SC:** SEALED CONCRETE
- T1:** TILE
 MANUFACTURER: DALTILE, PRODUCT: MODERNIST, COLOR: KNOLL CHARCOAL, SIZE: 24"x24", PATTERN: MONOLITHIC
GROUT: BOSTIK HYDROMENT VVD, COLOR: FRENCH GRAY, 1/16" GROUT JOINT.
 NOTE: PROVIDE FLOORING TRANSITION STRIPS AT ALL TILE AND CONCRETE FLOORING TRANSITIONS, BASIS-OF-DESIGN: SCHLUTER SHIENE-10-AE.
 NOTE: PROVIDE METAL COVE PROFILE TRIM WHEREVER WALL TILE MEETS FLOOR TILE, BASIS-OF-DESIGN: SCHLUTER AHK-15-100-AE.

WALL BASE

WB1: 4" RESILIENT WALL BASE, BASIS-OF-DESIGN TO BE JOHNSONITE TRADITIONAL WALL BASE, COLOR: BURNT UMBER

PAINT

- PT1 THROUGH 8:** PAINT COLORS, BASIS-OF-DESIGN TO BE SHERWIN-WILLIAMS EGGSHELL UNLESS NOTED OTHERWISE. **SEE REFLECTED CEILING PLAN FOR CEILING COLORS.**
- PT1:** FIELD COLOR: GLACIER BAY, SW9695
- PT2:** ACCENT COLOR: REPOSE GRAY SW7015
- PT3:** ACCENT COLOR: AFTER THE STORM, SW9685
- PT4:** AUDITORIUM COLOR: WEB GREY SW7075
- PT5:** DRYFALL FOR EXPOSED STRUCTURE & DUCTWORK, COLOR: AFTER THE STORM, SW9685
- PT6:** DRYFALL FOR EXPOSED STRUCTURE & DUCTWORK, COLOR: GLACIER BAY, SW9695
- PT7:** HOLLOW METAL DOOR & FRAME & RAILING, SEMI-GLOSS: IRON ORE, SW7069
- PT8:** CEILING CLOUD COLOR: GLACIER BAY, SW9695

PLASTIC LAMINATE

PLAM1: PLASTIC LAMINATE, BASIS-OF-DESIGN: WILSONART UNLESS NOTED OTHERWISE.

OTHER

- T2:** WALL TILE, BASIS-OF-DESIGN: DALTILE COLOR WHEEL LINEAR, COLOR: DESERT GRAY, SIZE: 8" X 24", PATTERN: STACKED, PROVIDE CONTINUOUS TRIM AT EXPOSED TOP EDGE OF WALL TILE AND AT OUTSIDE WALL CORNERS, BASIS-OF-DESIGN: SCHLUTER SHIENE-10-AE
- T3:** WALL TILE, BASIS-OF-DESIGN: DALTILE GEOMETRIC FUSION, COLOR: GRAPHITE, SIZE: 8" X 8", PATTERN: STACKED, PROVIDE CONTINUOUS TRIM AT EXPOSED TOP EDGE OF WALL TILE AND AT OUTSIDE WALL CORNERS, BASIS-OF-DESIGN: SCHLUTER SHIENE-10-AE
- GROUT:** BOSTIK HYDROMENT VVD, COLOR: FRENCH GRAY, 1/16" GROUT JOINT. **NOTE:** FOR T2-T3.
- OZ1:** QUARTZ COUNTERTOPS, WALL CAPS AND WINDOW SILLS, BASIS-OF-DESIGN: WILSONART, COLOR: MARFA, 3 CM THICKNESS.
- WD:** WOOD DOOR FINISH, BASIS-OF-DESIGN TO BE MASONITE ARCHITECTURAL, WHITE BIRCH, STAIN: COCOA BEAN
- AWP:** ACOUSTICAL WALL PANELS, BASIS-OF-DESIGN: TERRAM, PRODUCT: WOOD GRILLE SLAT ACOUSTIC PANEL, FINISH: ORCHARD WALNUT, INCLUDE EDGE TRIM ON EXPOSED EDGES OF PANEL.

WALL SOUND DIFFUSER: MANUF: G&S ACOUSTICS, PYRAMIDAL DIFFUSER, SIZE: 4" X 4", WDA CORE, TEXTURED WHITE FINISH.

CEILING SOUND DIFFUSER: MANUF: G&S ACOUSTICS, PYRAMIDAL DIFFUSER, TEXTURED WHITE FINISH, SEE SECTION 09.5100 ACOUSTICAL CEILINGS, SIZE: 4" X 4", INSTALLED IN CEILING GRID.

TOILET PARTITIONS: BASIS-OF-DESIGN: SCRANTON PRODUCTS, PRODUCT: HINY HIDERS, COLOR: STAINLESS IN HAMMERED TEXTURE.

GENERAL NOTES

- TRANSITION BETWEEN FLOORING TYPES MUST INCLUDE A TRANSITION STRIP AND/OR NOSING IF TRANSITION IS GREATER THAN 1/4". TRANSITION STRIP AND/OR NOSING IN A COLOR MATCHING WALL BASE COLOR, OR METAL FOR TILE, UNLESS NOTED OTHERWISE.
- REVIEW AND RECEIVE WRITTEN APPROVAL FOR ALL GRAPHICS WITH ARCHITECT AND OWNER OF WALL COVERINGS AND VINYL FILM BEFORE ORDERING.
- REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL FINISH INFORMATION.
- FIELD FLOOR FINISH NOTATED WITHIN FINISH TAG. ACCENT FLOOR FINISHES ARE SHOWN WITH A HATCH PATTERN ON FINISH PLANS WHERE APPLICABLE.

SC	FIELD FLOOR FINISH
B1	BASE FINISH
PT1	FIELD PAINT FINISH

1 OVERALL FINISH PLAN
 SCALE 3/32" = 1'-0"

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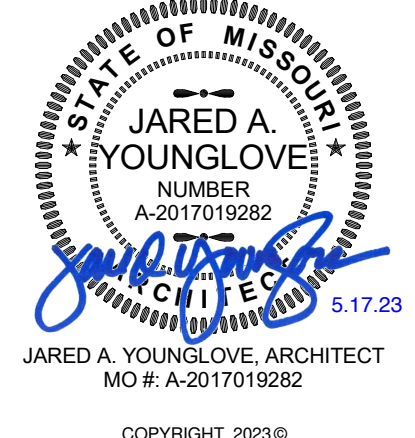
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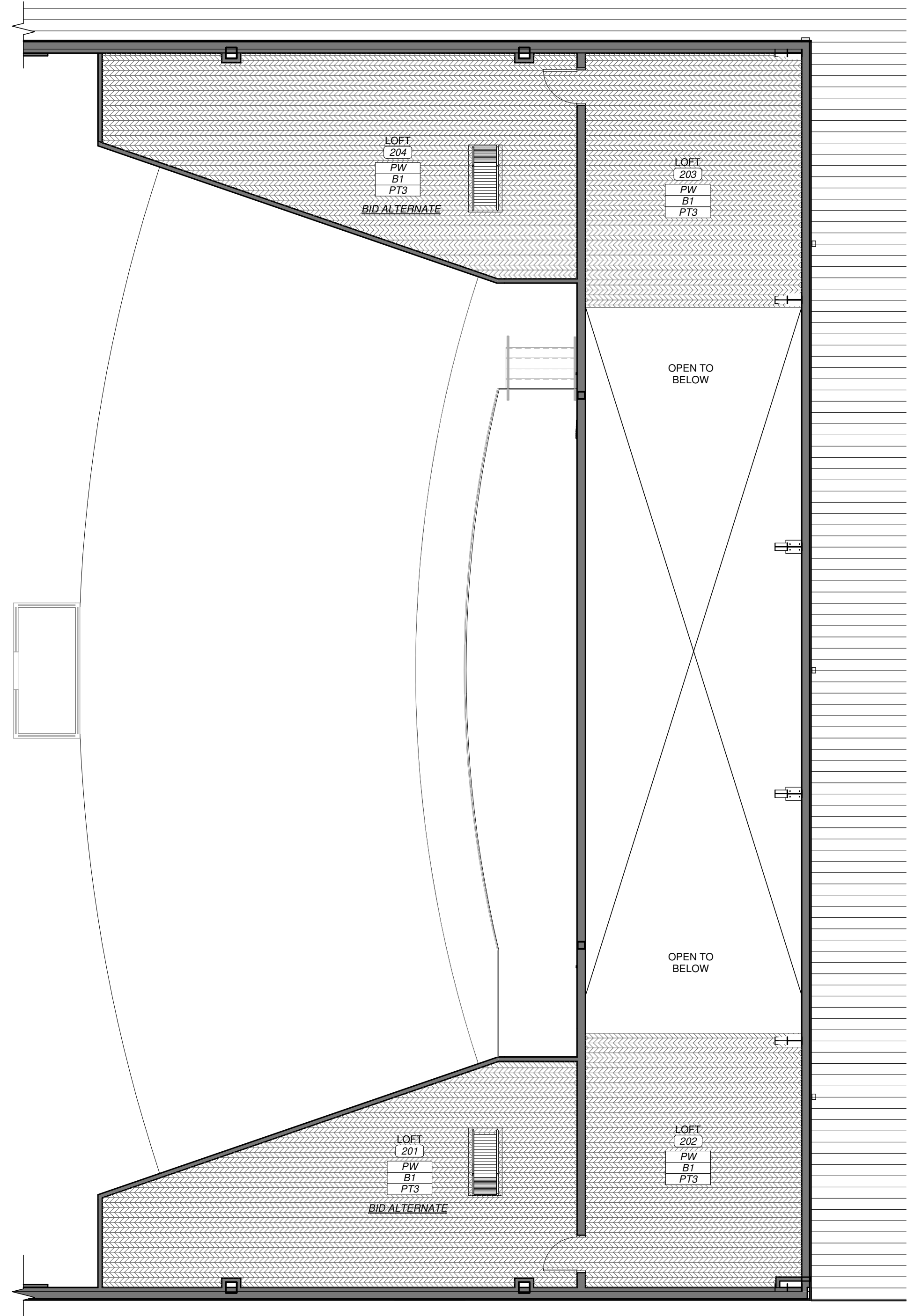
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REVISION SCHEDULE



FINISH PLAN LEGEND

- PW:** PLYWOOD
 FIRE-RESISTANT PLYWOOD, TONGUE AND GROOVE, PAINTED: PT7
 NOTE: REFERENCE STRUCTURAL.
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 MANUFACTURER: MILLIKEN. PRODUCT: ALLOY. COLOR: BRASS. SIZE: 10'X39.25". PATTERN: MONOLITHIC.
- WO1:** WALK OFF CARPET
 MANUFACTURER: SHAW CONTRACT. PRODUCT: JIVE TILE. COLOR: STEP. SIZE: 24'X24". PATTERN: MONOLITHIC.
- PC:** POLISHED CONCRETE. PCAEC 11.17 AGGREGATE EXPOSURE: CLASS B. PCAAC 11.17 APPEARANCE: LEVEL 2.
- SC:** SEALED CONCRETE
- T1:** TILE
 MANUFACTURER: DALTILE. PRODUCT: MODERNIST. COLOR: KNOLL CHARCOAL. SIZE: 24'X24". PATTERN: MONOLITHIC
GROUT: BOSTIK HYDROMENT VVD. COLOR: FRENCH GRAY. 1/16" GROUT JOINT.
NOTE: PROVIDE FLOORING TRANSITION STRIPS AT ALL TILE AND CONCRETE FLOORING TRANSITIONS. BASIS-OF-DESIGN: SCHLUTER SCHIENE-10-AE.
NOTE: PROVIDE METAL COVE PROFILE TRIM WHEREVER WALL TILE MEETS FLOOR TILE. BASIS-OF-DESIGN: SCHLUTER ANK-1S-100-AE.

WALL BASE

B1: 4" RESILIENT WALL BASE. BASIS-OF-DESIGN TO BE JOHNSONITE TRADITIONAL WALL BASE. COLOR: BURNT LUMBER

PAINT

PT1 THROUGH 8: PAINT COLORS, BASIS-OF-DESIGN TO BE SHERWIN-WILLIAMS EGGSHELL UNLESS NOTED OTHERWISE. **SEE REFLECTED CEILING PLAN FOR CEILING COLORS.**

- PT1:** FIELD COLOR: GLACIER BAY, SW9695
- PT2:** ACCENT COLOR: REPOSE GRAY SW7015
- PT3:** ACCENT COLOR: AFTER THE STORM, SW9685
- PT4:** AUDITORIUM COLOR: WEB GREY SW7075
- PT5:** DRYFALL FOR EXPOSED STRUCTURE & DUCTWORK. COLOR: AFTER THE STORM, SW9695
- PT6:** DRYFALL FOR EXPOSED STRUCTURE & DUCTWORK. COLOR: GLACIER BAY, SW9695
- PT7:** HOLLOW METAL DOOR & FRAME & RAILING, SEMI-GLOSS: IRON ORE, SW7069
- PT8:** CEILING CLOUD COLOR: GLACIER BAY, SW9695

PLASTIC LAMINATE

PLAM1: PLASTIC LAMINATE. BASIS-OF-DESIGN: WILSONART UNLESS NOTED OTHERWISE.

PLAM1: COLOR: PHANTOM COCOA. LOCATION: VERTICAL SURFACES.

OTHER

T2: WALL TILE. BASIS-OF-DESIGN: DALTILE COLOR WHEEL LINEAR. COLOR: DESERT GRAY. SIZE: 8" X 24". PATTERN: STACKED. PROVIDE CONTINUOUS TRIM AT EXPOSED TOP EDGE OF WALL TILE AND AT OUTSIDE WALL CORNERS. BASIS-OF-DESIGN: SCHLUTER SHIENE-10-AE.

T3: WALL TILE. BASIS-OF-DESIGN: DALTILE GEOMETRIC FUSION. COLOR: GRAPHITE. SIZE: 8" X 8". PATTERN: STACKED. PROVIDE CONTINUOUS TRIM AT EXPOSED TOP EDGE OF WALL TILE AND AT OUTSIDE WALL CORNERS. BASIS-OF-DESIGN: SCHLUTER SHIENE-10-AE.

GROUT: BOSTIK HYDROMENT VVD, COLOR: FRENCH GRAY. 1/16" GROUT JOINT. **NOTE:** FOR T2-T3.

OZ1: QUARTZ COUNTERTOPS, WALL CAPS AND WINDOW SILLS. BASIS-OF-DESIGN: WILSONART. COLOR: MARFA, 3 CM THICKNESS.

WD: WOOD DOOR FINISH, BASIS-OF-DESIGN TO BE MASONITE ARCHITECTURAL, WHITE BIRCH, STAIN: COCOA BEAN

AWP: ACOUSTICAL WALL PANELS
 BASIS-OF-DESIGN: TERRAMAL. PRODUCT: WOOD GRILLE SLAT ACOUSTIC PANEL. FINISH: ORCHARD WALNUT. INCLUDE EDGE TRIM ON EXPOSED EDGES OF PANEL.

WALL SOUND DIFFUSER: MANUF: G&S ACOUSTICS. PYRAMIDAL DIFFUSER. SIZE: 4' X 4'. WDA CORE. TEXTURED WHITE FINISH.

CEILING SOUND DIFFUSER: MANUF: G&S ACOUSTICS. PYRAMIDAL DIFFUSER. TEXTURED WHITE FINISH. SEE SECTION 09.5100 ACOUSTICAL CEILING. SIZE: 4' X 4'. INSTALLED IN CEILING GRID.

TOILET PARTITIONS: BASIS-OF-DESIGN: SCRANTON PRODUCTS. PRODUCT: HINY HIDERS. COLOR: STAINLESS IN HAMMERED TEXTURE.

GENERAL NOTES

1. TRANSITION BETWEEN FLOORING TYPES MUST INCLUDE A TRANSITION STRIP AND/OR NOSING IF TRANSITION IS GREATER THAN 1/4". TRANSITION STRIP AND/OR NOSING IN A COLOR MATCHING WALL BASE COLOR, OR METAL FOR TILE, UNLESS NOTED OTHERWISE.
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3. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL FINISH INFORMATION.
4. FIELD FLOOR FINISH NOTATED WITHIN FINISH TAG. ACCENT FLOOR FINISHES ARE SHOWN WITH A HATCH PATTERN ON FINISH PLANS WHERE APPLICABLE.

- SC — FIELD FLOOR FINISH
- B1 — BASE FINISH
- PT1 — FIELD PAINT FINISH

1 FINISH PLAN - MEZZANINE
 SCALE 1/8" = 1'-0"



PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ARCHITECT: JAY
 DRAWN BY: TW, TD, KW
 CHECKED BY: KW, JS, JAY

PROJECT NUMBER:
21-620

DATE:
 2023.05.17

FINISH PLAN - MEZZANINE

SHEET NUMBER:

A9-1



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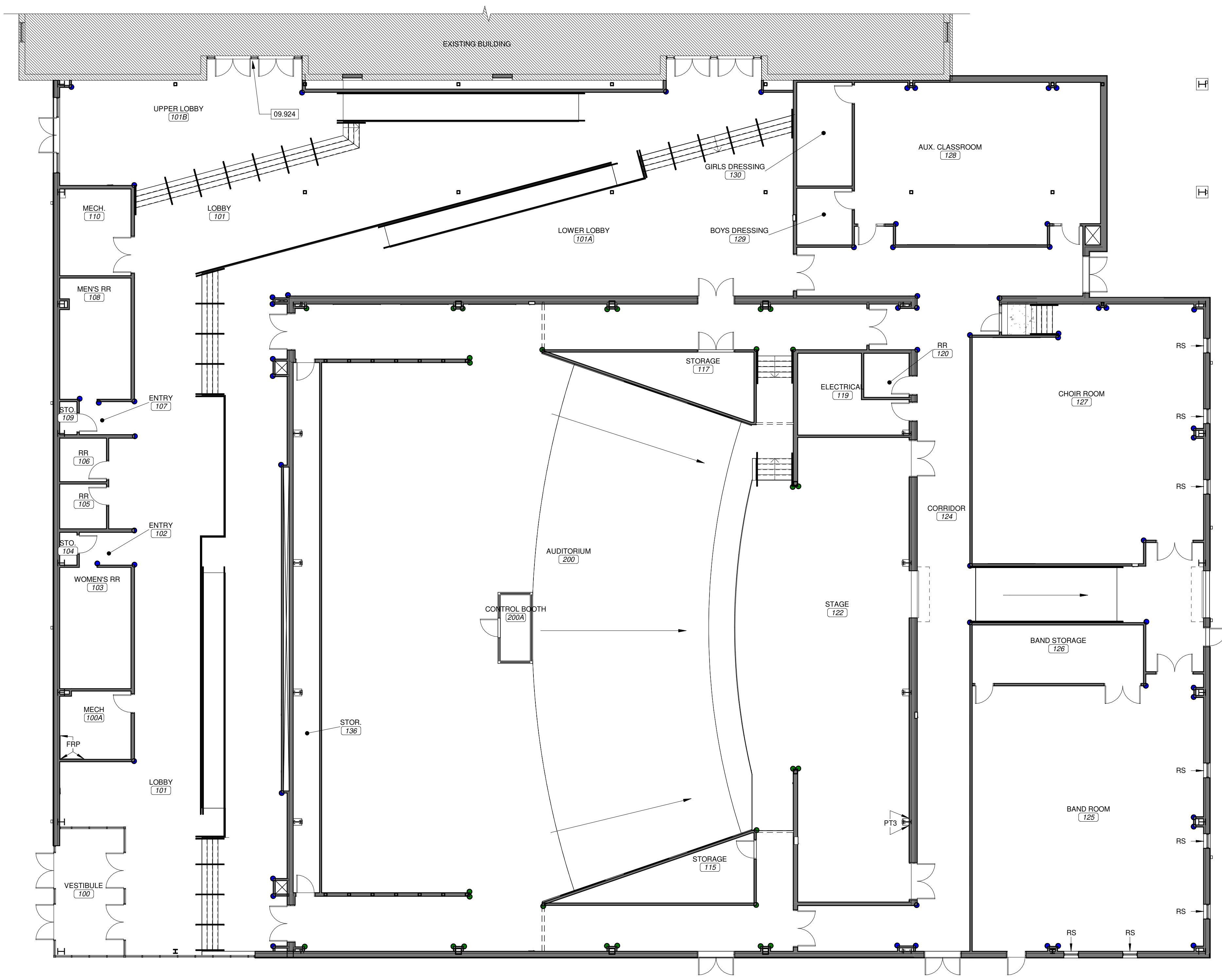
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REVISION SCHEDULE



ACCESSORIES FINISH PLAN LEGEND

- **CG1:** CORNER GUARDS. BASIS-OF-DESIGN: INPRO. COLOR: FEATHER. SIZE: 1-1/2" X 1-1/2". INSTALL FULL HEIGHT.
- **CG2:** CORNER GUARDS. BASIS-OF-DESIGN: INPRO. COLOR: PEWTER GRAY. SIZE: 1-1/2" X 1-1/2". INSTALL FULL HEIGHT.

RS: ROLLER SHADES. BASIS-OF-DESIGN: CROWN SHADE. PRODUCT: CHAIN LIFT SYSTEM. FABRIC: MERMET E SCREEN HIGH PERFORMANCE. COLOR: 3% OPENNESS CHARCOAL/CHARCOAL.
WP: WALL PROTECTION. BASIS-OF-DESIGN: KOROGUARD WALL PROTECTION SYSTEMS. PRODUCT: STANDARD KOROGUARD SHEETS. COLOR: FEATHER. TEXTURE: P1 DUNE. **NOTE:** APPLY 4' W X 8' H SHEET ON WALLS BEHIND MOP SINK.



1 OVERALL ACCESSORIES PLAN
 SCALE 3/32" = 1'-0"

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ARCHITECT: JAY
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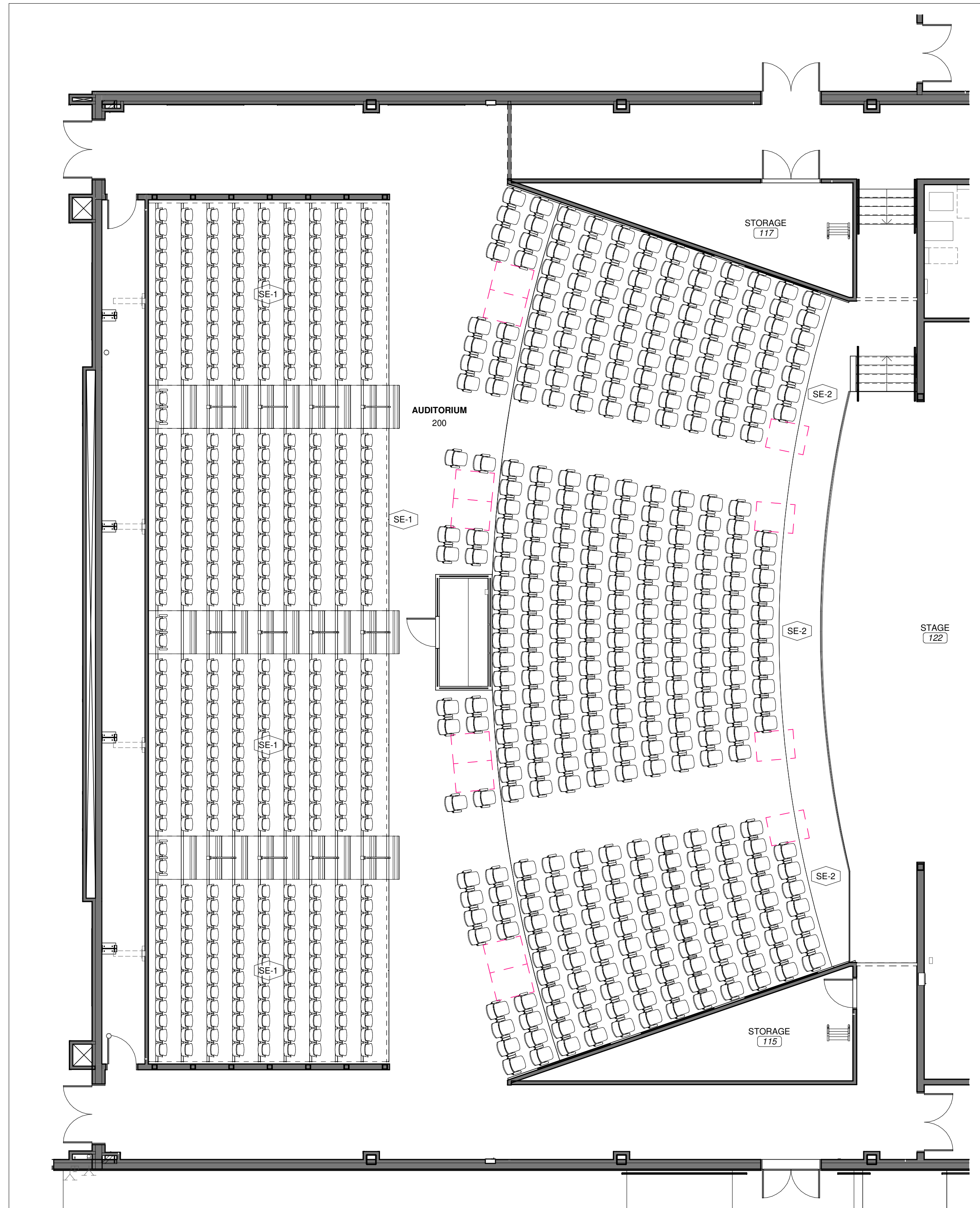
ACCESSORIES PLAN

SHEET NUMBER:

A9-2

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FURNITURE SCHEDULE				
TAG	MANUFACTURER	PRODUCT DISCRPTION	MATERIAL	SEAT COUNT
SE-1	Interkal Seating	Vision Platform Chair + B3 Backout 19" width	Polydeck; Black, Plastic Seat & Back color to be selected from manufacturer's full range of colors	438
SE-2	Steadfast	Convention T; 19" wide fixed chair	Polypropylene Outer Back Color: Black; Arm Rest: Black Surface Material: Upholstery; to be selected from manufacturer's full range of colors	389
				827



1 FURNITURE PLAN - AUDITORIUM
SCALE 1/8" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

1. PROVIDE ALL LABOR, MATERIAL AND TRANSPORTATION NECESSARY FOR THE COMPLETE INSTALLATION OF ALL FURNISHINGS AND EQUIPMENT (F&E) AS SPECIFIED.
2. SUBMIT PHYSICAL SAMPLES OF ALL FURNITURE FINISHES PRIOR TO FURNITURE PURCHASE. IF SAMPLES ARE NOT SUBMITTED AND APPROVED, OWNER/ARCHITECT HAS THE RIGHT TO REJECT THE FURNISHING.
3. SUBMIT MANUFACTURERS RECOMMENDED MAINTENANCE INSTRUCTIONS TO INCLUDE APPROVED USE OF CLEANING AGENTS, AS SPECIFIED.
4. PROTECT FURNITURE DURING DELIVERY, STORAGE AND HANDLING TO PREVENT DAMAGE, SOLING AND DETERIORATION.



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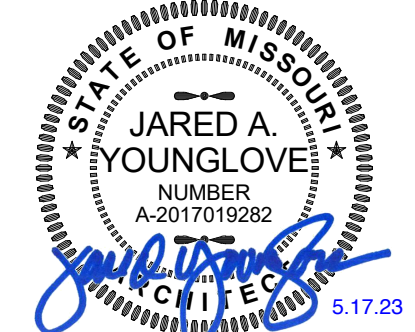
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REVISION SCHEDULE

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CASSVILLE HS: PERFORMING ARTS CENTER
1825 STATE HWY Y, CASSVILLE, MO 65625

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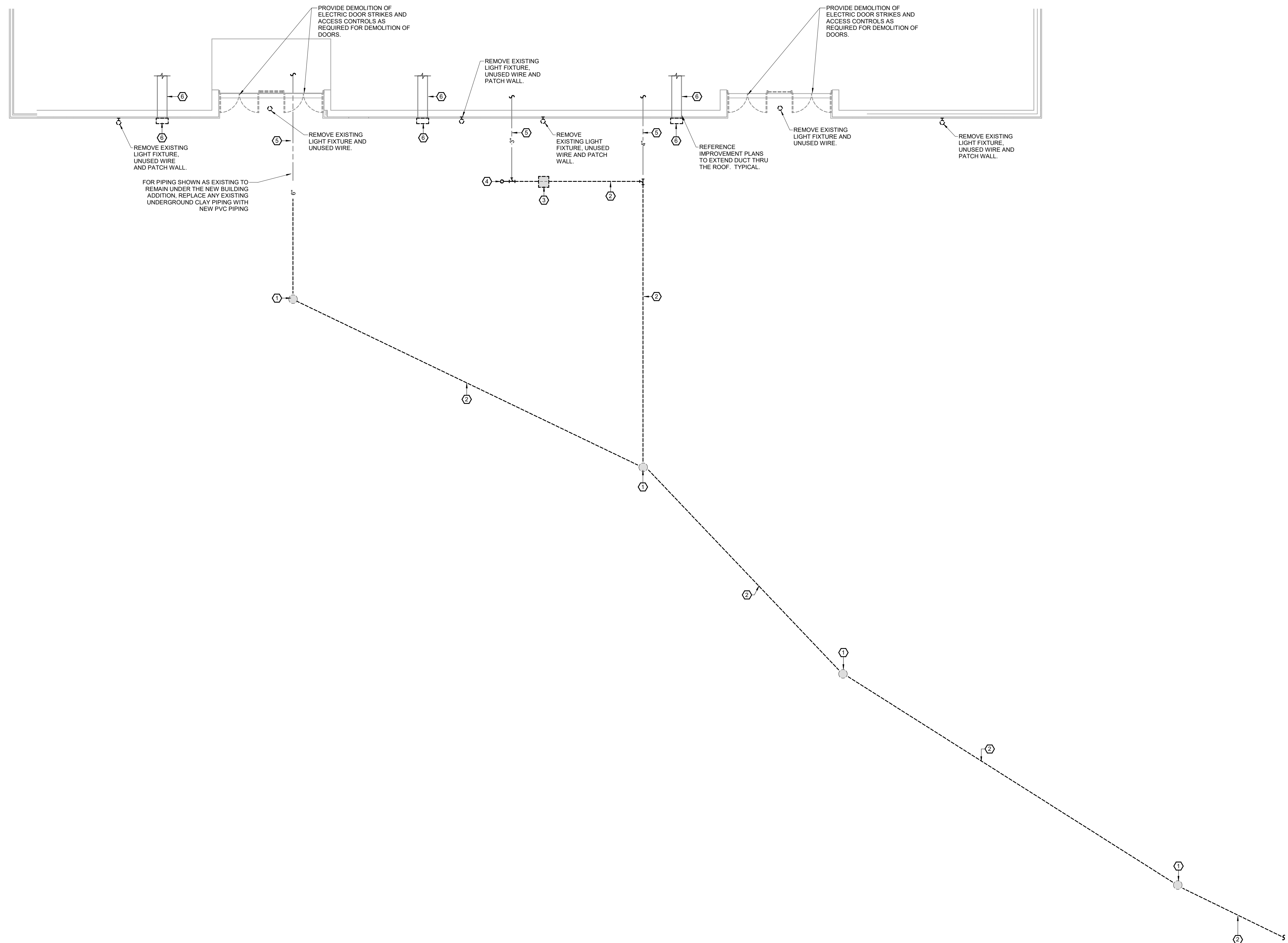
PROJECT NUMBER:
21-620

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FURNITURE PLAN

SHEET NUMBER:

A10-0



GENERAL DEMOLITION NOTES:

- A. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED MATERIALS AND EQUIPMENT. STORE ITEMS ON SITE AS DIRECTED BY OWNER.
- B. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.
- C. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR PHASING AND EXTENTS OF DEMOLITION.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, PATCH, AND REPAIR OF ALL WALL AND FLOOR SYSTEMS AS REQUIRED DUE TO CONSTRUCTION WORK. MAINTAIN ALL FIRE RATINGS.
- E. REMOVE ALL UNUSED PIPING LOCATED WITHIN THE AREA OF CONSTRUCTION. CAP BRANCH PIPING REMOVED NEAR MAIN. FOR DOMESTIC WATER PIPING PROVIDE SHUTOFF VALVE AT TAP AND CAP.

ELECTRIC DEMOLITION NOTES:

- A. THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.
- B. REMOVE ALL UNUSED CONDUIT, CONDUCTORS, PULL BOXES, ETC. FOR DEMOLISHED ITEMS. TURN OFF BREAKERS AND LABEL AS "SPARE" IN THE PANELBOARD DIRECTORY.
- C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED MATERIALS AND EQUIPMENT. STORE ITEMS ON SITE AS DIRECTED BY OWNER.
- D. WHERE DEMOLISHED ELECTRICAL DEVICES ARE PART OF A CIRCUIT THAT IS THRU-WIRED, OR HAS ADDITIONAL DEVICES ON THE CIRCUIT THAT ARE TO REMAIN UNCHANGED, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE EXISTING CIRCUIT. ANY ADDITIONAL CONDUIT, WIRING, BOXES, ETC. NEEDED TO MODIFY THE EXISTING CIRCUIT TO MAINTAIN THE INTEGRITY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE BASE BID.
- E. EXISTING CONDITIONS ON THIS SET OF CONSTRUCTION DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.
- F. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR PHASING AND EXTENTS OF DEMOLITION.
- G. REMOVE ALL UNUSED CONDUIT AND WIRING LOCATED WITHIN THE AREA OF CONSTRUCTION.
- H. REMOVE AND REPLACE COVERPLATES AS NEEDED ON EXISTING WALLS DUE TO NEW FINISHES.
- I. REFER TO ARCHITECTURAL DRAWINGS FOR ALL EXISTING EQUIPMENT REQUIRED TO BE RELOCATED. CONTRACTOR SHALL FULLY COORDINATE SCHEDULE OF RELOCATING EQUIPMENT WITH OWNER.

PLAN HEX NOTES:

- 1 REMOVE EXISTING MANHOLE AND ASSOCIATED PIPING.
- 2 REMOVE EXISTING WASTE PIPING. PIPING MAY BE ABANDONED IF DEEP ENOUGH TO NOT INTERFERE WITH NEW STRUCTURAL FOUNDATIONS IN AREA.
- 3 REMOVE EXISTING ABANDONED ACID NEUTRALIZATION BASIN AND ASSOCIATED PIPING.
- 4 REMOVE EXISTING CLEANOUT.
- 5 EXISTING WASTE PIPING SHALL REMAIN. SEE IMPROVEMENT PLAN FOR RE-ROUTING OF WASTE LINES.
- 6 REMOVE EXISTING EXHAUST WALL CAP.

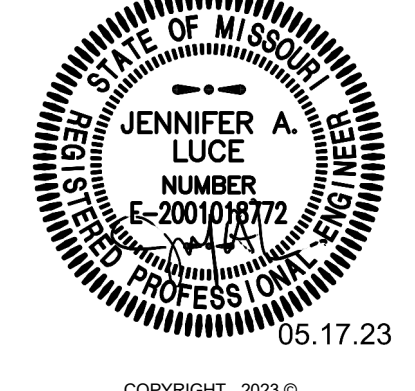


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JENNIFER A. LUCE
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PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL
 DRAWN BY: TSE
 CHECKED BY: JAL

PROJECT NUMBER:
 21-620

DATE:
 05-17-2023

MEP DEMOLITION PLAN

SHEET NUMBER:

ME0-1

1
 ME0-1
MEP DEMO PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

PLUMBING PIPES:

Table listing plumbing pipe types and their abbreviations, including Domestic Cold Water, Domestic Hot Water, and Waste Piping.

FIRE PROTECTION PIPES:

Table listing fire protection pipe types and their abbreviations, including Fire Service, Fire Protection Standpipe, and Fire Sprinkler.

MEDICAL GAS PIPES:

Table listing medical gas pipe types and their abbreviations, including Medical Vacuum Piping, Medical Oxygen Piping, and Medical Nitrogen Piping.

HVAC PIPES:

Table listing HVAC pipe types and their abbreviations, including Chilled Water Supply, Chilled Water Return, and Heating Hot Water Supply.

PIPE PHASING:

Table listing pipe phasing types and their abbreviations, including Improvement - Service as Noted Above and Existing - Service as Noted Above.

PIPE FITTINGS AND VALVES:

Table listing pipe fittings and valves with their symbols and abbreviations, including Shut-off Valve, Check Valve, Balancing Valve, and Solenoid Valve.

PLUMBING FIXTURES:

Table listing plumbing fixtures with their symbols and abbreviations, including Flush Tank Water Closet, Floor Mount Flush Valve, and Urinal.

PIPE SPECIALTIES:

Table listing pipe specialties with their symbols and abbreviations, including Drainage Pipe Specialty Tag, Flush Floor Cleanout, and Finish Wall Cleanout.

DUCTWORK:

Table listing ductwork types and their symbols, including Branch Duct with 45 Degree Boot Fitting, Branch Duct with Bellmouth Spin-in Fitting, and Equipment with Flexible Duct Connection.

DAMPERS:

Table listing damper types and their symbols, including Fire Damper, Smoke Damper, and Motorized Damper.

TEMPERATURE CONTROLS:

Table listing temperature controls with their symbols and abbreviations, including Thermostat, Temperature Sensor, and Humidity Sensor.

LUMINAIRES:

Table listing luminaire types and their symbols, including Recessed Light Fixture, Light Fixture, and Track Light.

RACEWAYS:

Table listing raceway types and their symbols, including Conduit or Circuit Concealed in Ceiling or Wall, Exposed Conduit or Circuit, and Home Run - Lines Indicate Number of Wires.

POWER EQUIPMENT:

Table listing power equipment types and their symbols, including Lighting and Appliance Panel, Distribution, Feeder or Power Panel, and Transformer.

WIRING DEVICES AND OUTLETS:

Table listing wiring devices and outlets with their symbols and abbreviations, including 20 Amp Single Pole Switch, Three-Way Switch, and Recessed Rectangular Floor Box.

FIRE ALARM:

Table listing fire alarm devices and their symbols, including Water Flow Switch, Valve Tamper Switch, and Fire Alarm Relay.

NURSE CALL:

Table listing nurse call devices and their symbols, including Nurse Call Master Station, Nurse Call Annunciation Panel, and Nurse Call Room Status Corridor Light.

COMMUNICATIONS:

Table listing communication devices and their symbols, including Telephone Outlet, Telephone Power Pole, Master Clock, and Music System Amp.

SECURITY:

Table listing security devices and their symbols, including Door Alarm Contact, Door Alarm Annunciator, Monitor Junction Box, and Closed Circuit Television Monitor.

ELECTRICAL NOTATIONS:

Table listing electrical notations with their symbols and abbreviations, including AC, IG, SS, TR, WP, WPI, XP, 60", (TIE).

ABBREVIATIONS:

Table listing abbreviations with their symbols and abbreviations, including AD, AFF, AFG, AHU, C, CO, CU, CUH, CWR, CWS, DF, DN, EFCO, FCU, FD, FFCO, FCGO, FTR, FWCO, G, HHP, HP, HW, HWR, HWS, OA, OC, RA, SA, UH, UNO, UV, V, VTR, W.

PLAN NOTATIONS:

Table listing plan notations with their symbols and abbreviations, including North arrow, Detail Reference, Plan Note Reference, and Section Reference.



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STATE OF MISSOURI CERTIFICATE OF AUTHORITY: 201403505 FOR ENGINEERING



JENNIFER A. LUCE E-2001018172 MISSOURI PROFESSIONAL ENGINEER 05.17.23

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REVISION SCHEDULE

PROJECT DESCRIPTION: CASSVILLE HS: PERFORMING ARTS CENTER 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL DRAWN BY: AGB CHECKED BY: JAL

PROJECT NUMBER: 21-620

DATE: 05-17-2023

SYMBOLS LEGEND

SHEET NUMBER:

ME1-1



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PROJECT NUMBER:
 21-620

DATE:
 05-17-2023

SITE UTILITIES PLAN

SHEET NUMBER:

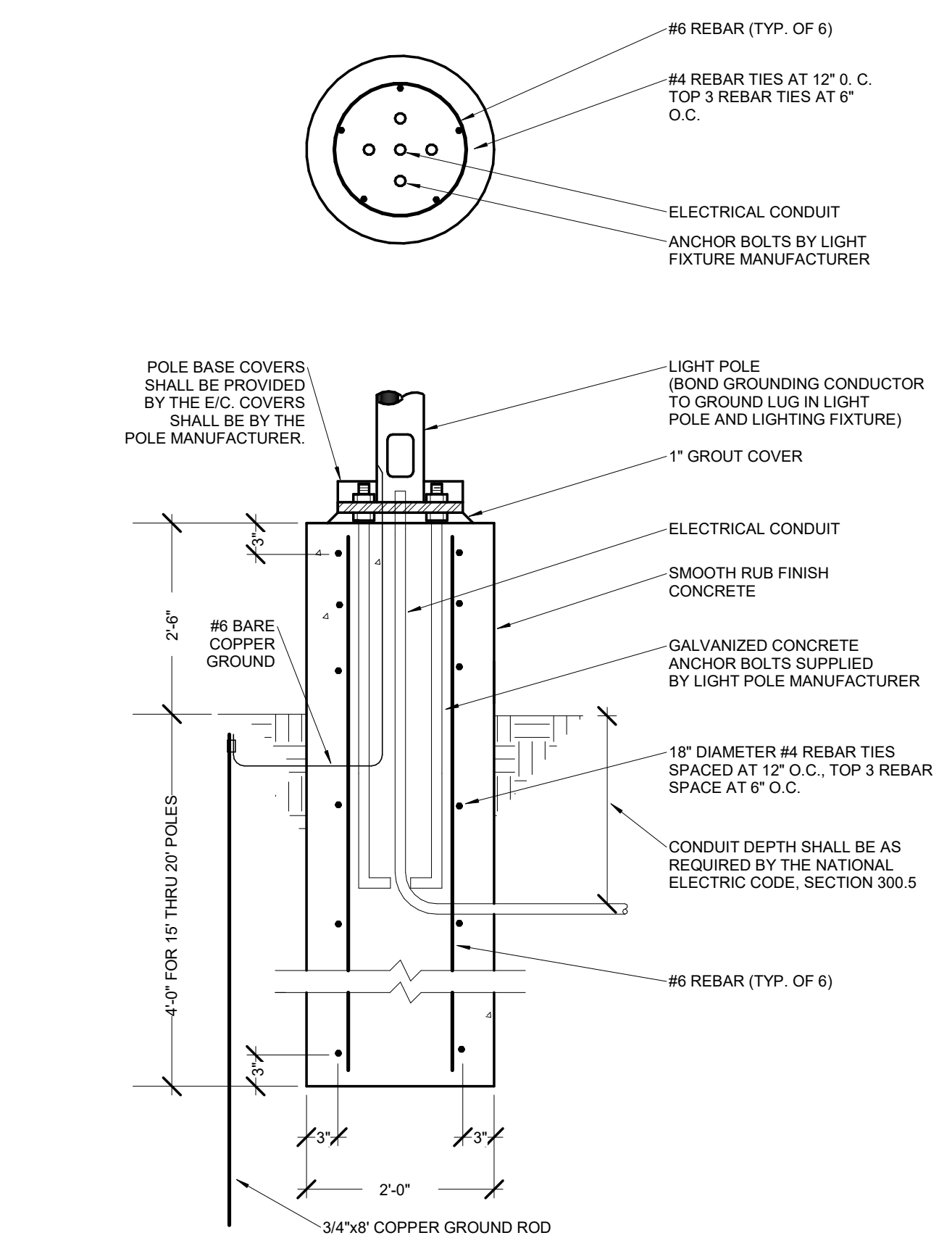
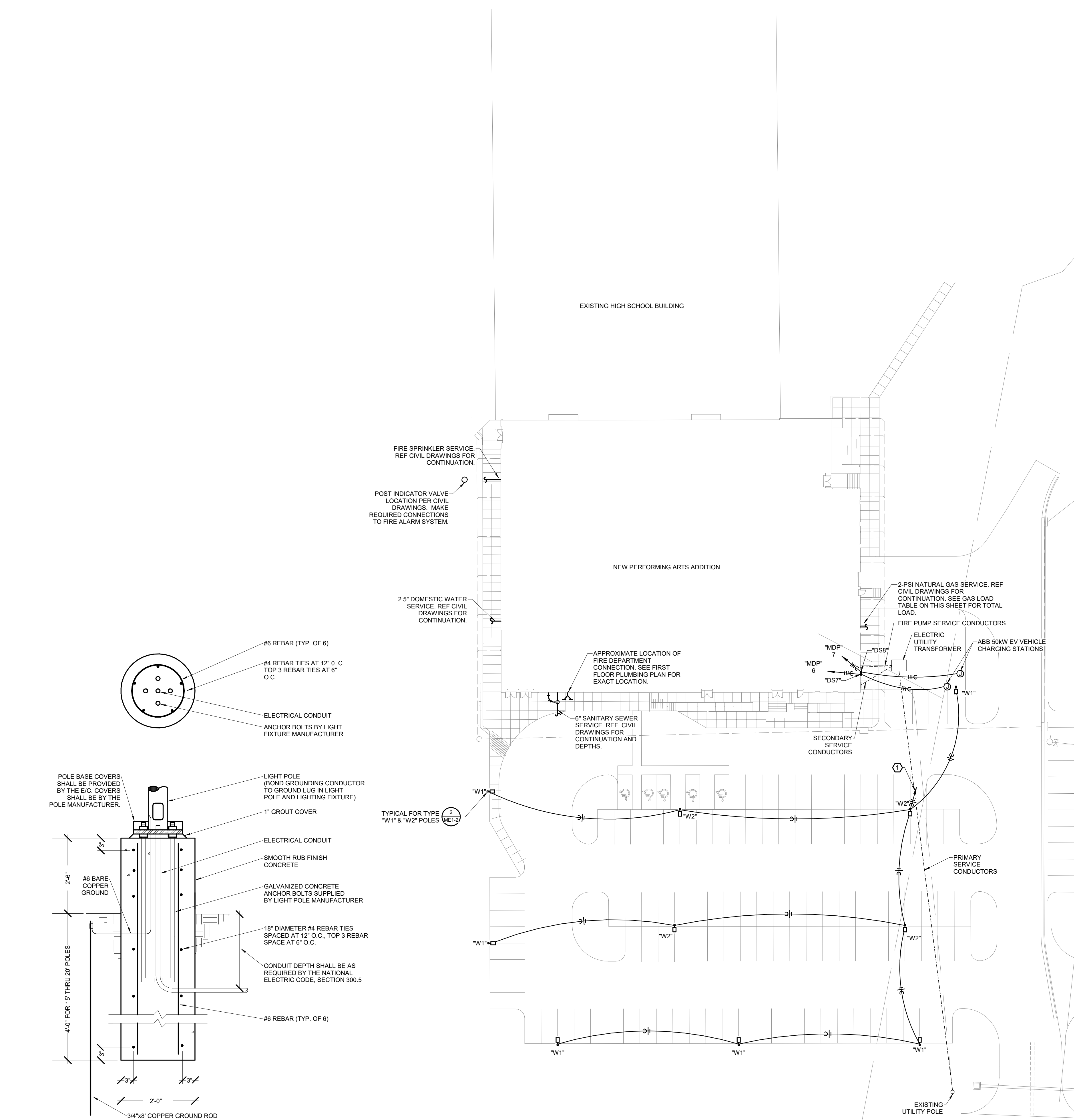
ME1-2

GENERAL NOTES:

CONTRACTOR SHALL CONTACT ELECTRIC UTILITY COMPANY AND ARRANGE FOR ELECTRIC SERVICE REVISIONS AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY COOPERATIVE INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE REVISIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. CONTACT GARY PAUL AT BARRY COUNTY ELECTRIC COOPERATIVE gpaul@barryelectric.com

PLAN HEX NOTES:

1 PULL SWITCHLEG THRU CONTACTOR 'LC1'.



2 LIGHT POLE BASE DETAIL
 ME1-2 SCALE: NOT TO SCALE

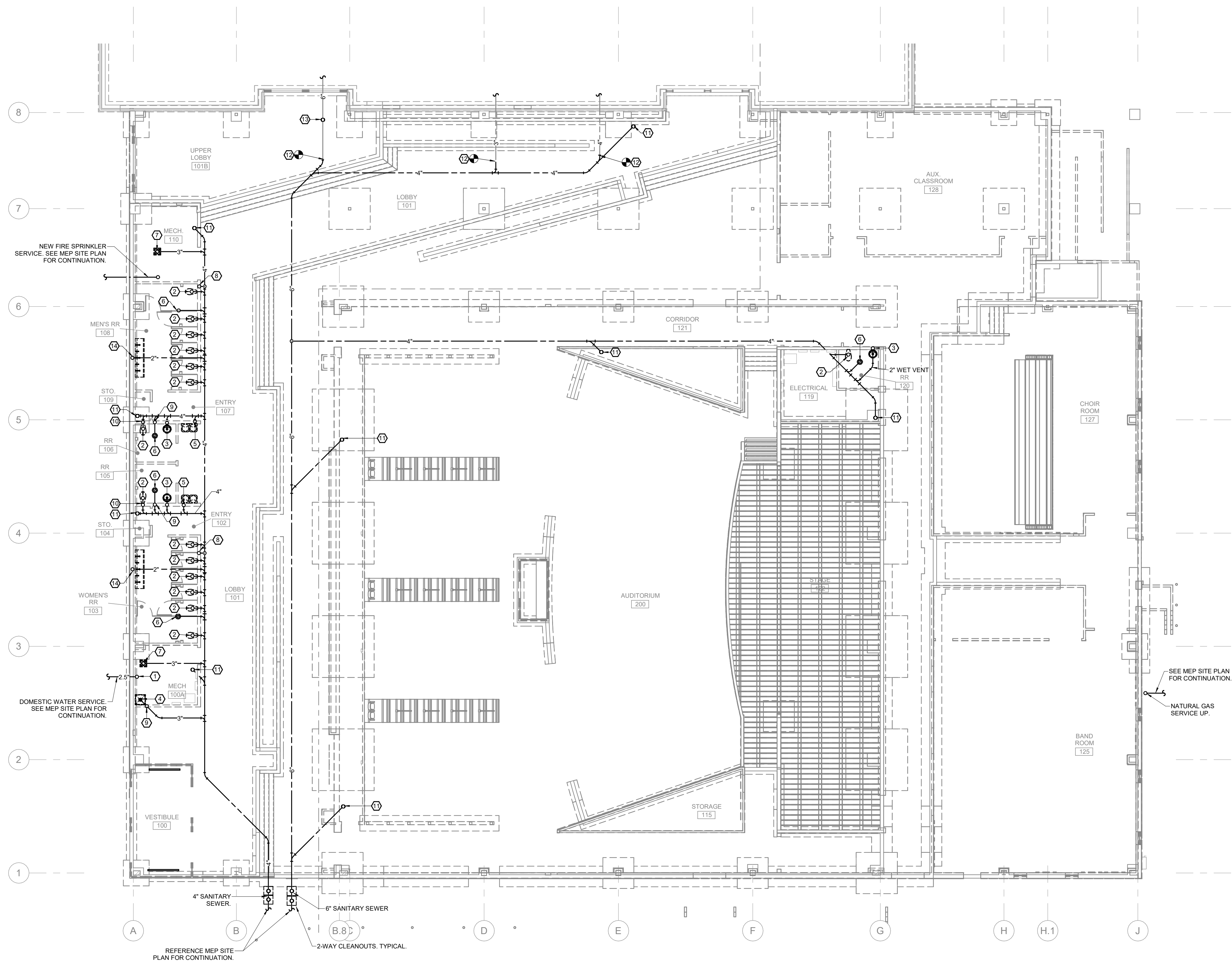
1 MEP SITE UTILITIES PLAN
 ME1-2 SCALE: 1" = 30'-0" NORTH

DOMESTIC WATER LOAD TABLE

FIXTURE TYPE	QTY	DWFU	TOTAL
FLUSH VALVE WC	15	10	150
LAVATORY	8	2	18
MOP SINK	1	3	3
HOSE BIBB	3	6	18
TOTAL DWFU			189
TOTAL GPM			83.5

CONNECTED GAS LOAD TABLE

PLAN MARK	GAS LOAD (MBH)
RTU1	500.0
RTU2	600.0
RTU3	200.0
RTU4	200.0
RTU5	200.0
RTU6	200.0
RTU7	400.0
RTU8	240.0
WH1	60.0
TOTAL GAS LOAD	2600.0



1 UNDERGROUND PLUMBING PLAN
 P1-1 SCALE: 3/32" = 1'-0" NORTH

GENERAL NOTES:

- A. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE AS ADOPTED BY THE CITY OF CASSVILLE, MO.
- B. FOR ALL MECHANICAL QUESTIONS ON THIS PROJECT, CONTACT RTM ENGINEERING CONSULTANTS AT (417) 881-0020. CONTACT: TYLER ENSERRO. tyler.enserro@rtmec.com.
- C. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY MEP PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES, OR REGULATIONS.
- D. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL, EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.
- E. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.
- F. ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION BOXES, ETC., LOCATED IN CONCEALED SPACES.
- G. ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL CUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF SERVICES.
- I. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.
- J. EXISTING CONDITIONS ON THIS SET OF BID DOCUMENTS WERE TAKEN FROM EXISTING DRAWINGS, LIMITED SITE VISITS, AND VISUAL OBSERVATIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CHANGE ORDERS WILL NOT BE PAID DUE TO UNANTICIPATED CONDITIONS TO MEET INTENT OF WORK.
- K. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
- L. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

PLAN HEX NOTES:

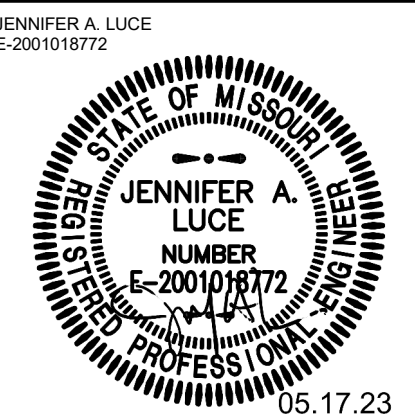
- 1 2.5" DOMESTIC WATER SERVICE UP
- 2 4" WASTE UP TO WATER CLOSET.
- 3 2" WASTE UP TO LAVATORY.
- 4 3" TRAPPED WASTE UP TO JANITOR'S BASIN.
- 5 2" WASTE UP TO WATER COOLER.
- 6 2" TRAPPED WASTE UP TO FLOOR DRAIN WITH TRAP GUARD INSERT.
- 7 3" TRAPPED WASTE UP TO FLOOR DRAIN WITH TRAP GUARD INSERT.
- 8 3" CIRCUIT VENT UP. OFFSET TO WALL AT A MINIMUM 45 DEGREE ANGLE FROM HORIZONTAL.
- 9 1.5" VENT UP.
- 10 2" VENT UP.
- 11 4" WASTE UP TO FINISHED FLOOR CLEANOUT.
- 12 CONNECT NEW WASTE PIPING TO EXISTING. FIELD VERIFY EXISTING DEPTH AND LOCATION AND RE-ROUTE THE WASTE FROM THE EXISTING BUILDING AS SHOWN.
- 13 6" WASTE UP TO FINISHED FLOOR CLEANOUT.
- 14 2" WASTE UP TO HAND WASH BASIN. PROVIDE TRAPPED CONNECTION TO EACH.



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 05.17.23
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REVISION SCHEDULE

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PROJECT ENGINEER: JAL
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PROJECT NUMBER:
 21-620

DATE:
 05-17-2023

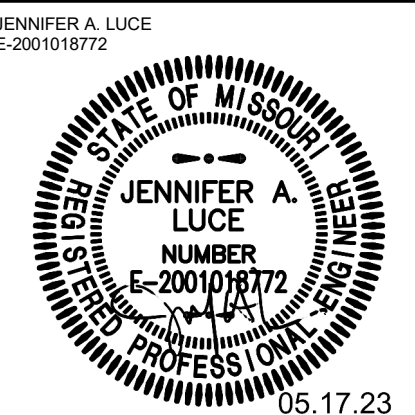
UNDERGROUND PLUMBING PLAN

SHEET NUMBER:
P1-1



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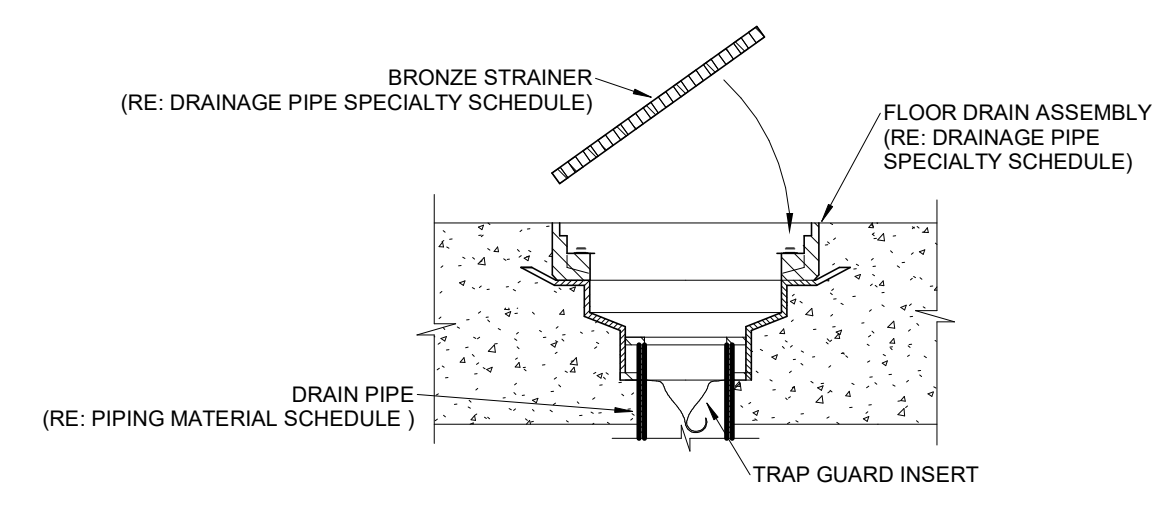
FIRST FLOOR PLUMBING PLAN

SHEET NUMBER:

P1-2

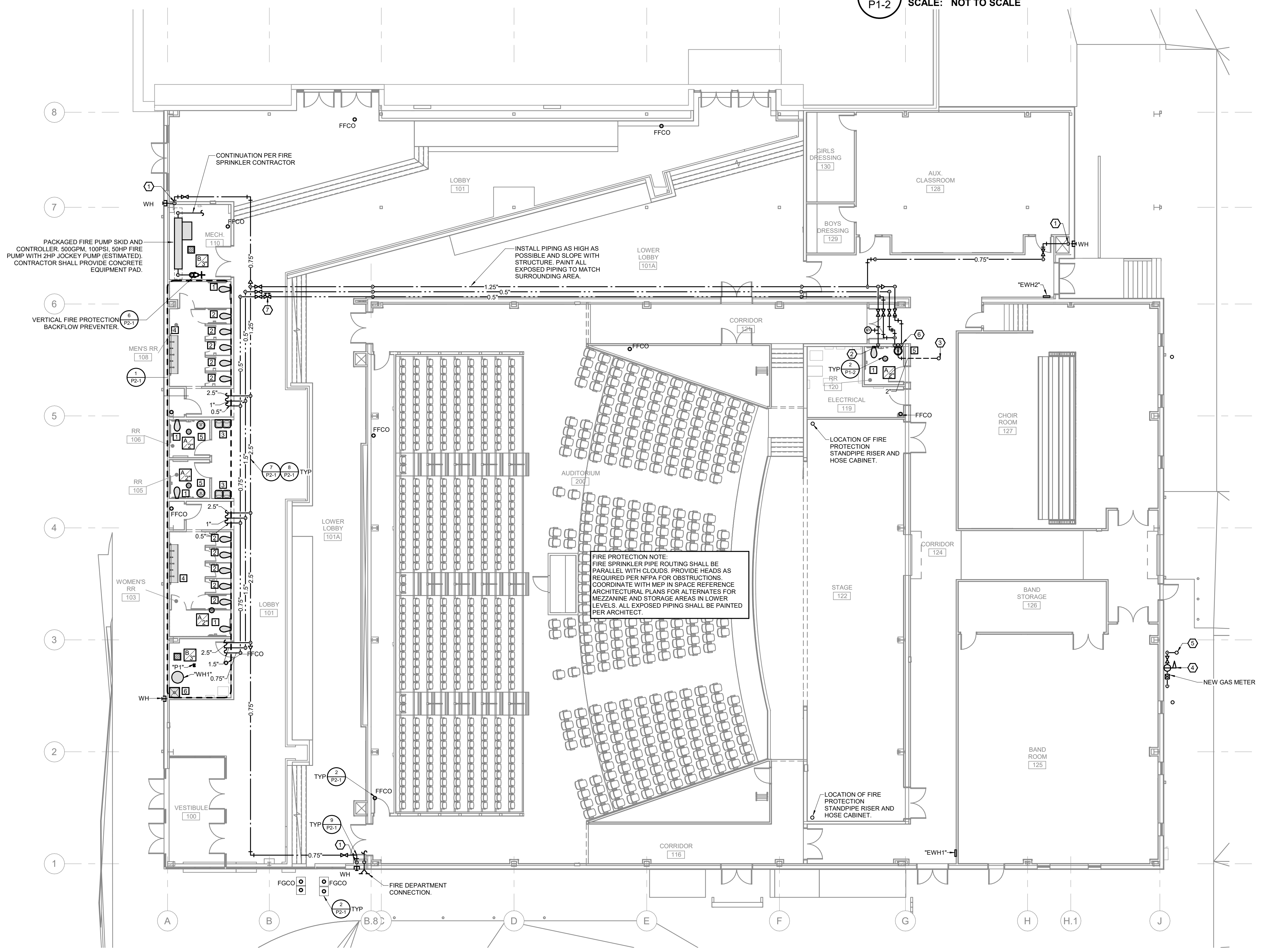
PLAN HEX NOTES:

- 1 0.75" COLD WATER DOWN TO FREEZE PROOF WALL HYDRANT.
- 2 1.25" COLD WATER DOWN TO WATER CLOSET.
- 3 2" VENT UP TO 3" VENT THRU ROOF.
- 4 PRESSURE REGULATOR AT SERVICE. SET AT 2-PSI. REFERENCE GAS LOAD TABLE ON MEP SITE PLAN FOR ANTICIPATED LOAD.
- 5 2" 2-PSI NATURAL GAS UP ON WALL TO ROOF. PAINT ALL EXPOSED PIPING ALONG WALL TO MATCH SURROUNDING AREA.
- 6 2" VENT, 0.5" COLD WATER, AND 0.5" HOT WATER DOWN TO LAVATORY.
- 7 BALANCE HW RECIRC BRANCH TO 1 GPM.



- NOTES:
 1. TRAP GUARD SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 2. REFER TO PLANS FOR TRAP GUARD SIZE AND QUANTITY.
 3. FLOOR DRAINS IN THE KITCHEN SHALL NOT HAVE TRAP GUARD.
 4. TRAP GUARDS BY SURE SEAL OR PROSET.

2 FLOOR DRAIN DETAIL
 SCALE: NOT TO SCALE

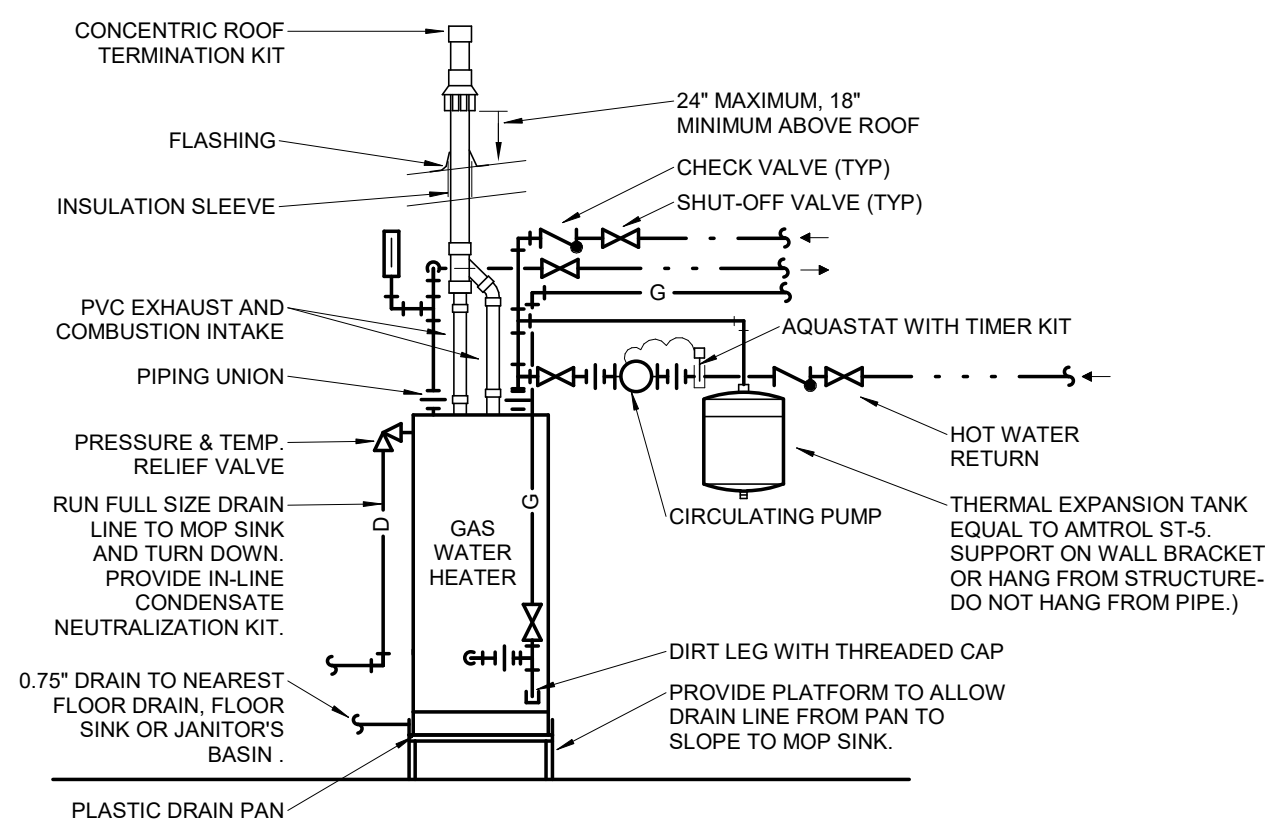


1 PLUMBING PLAN
 SCALE: 3/32" = 1'-0"

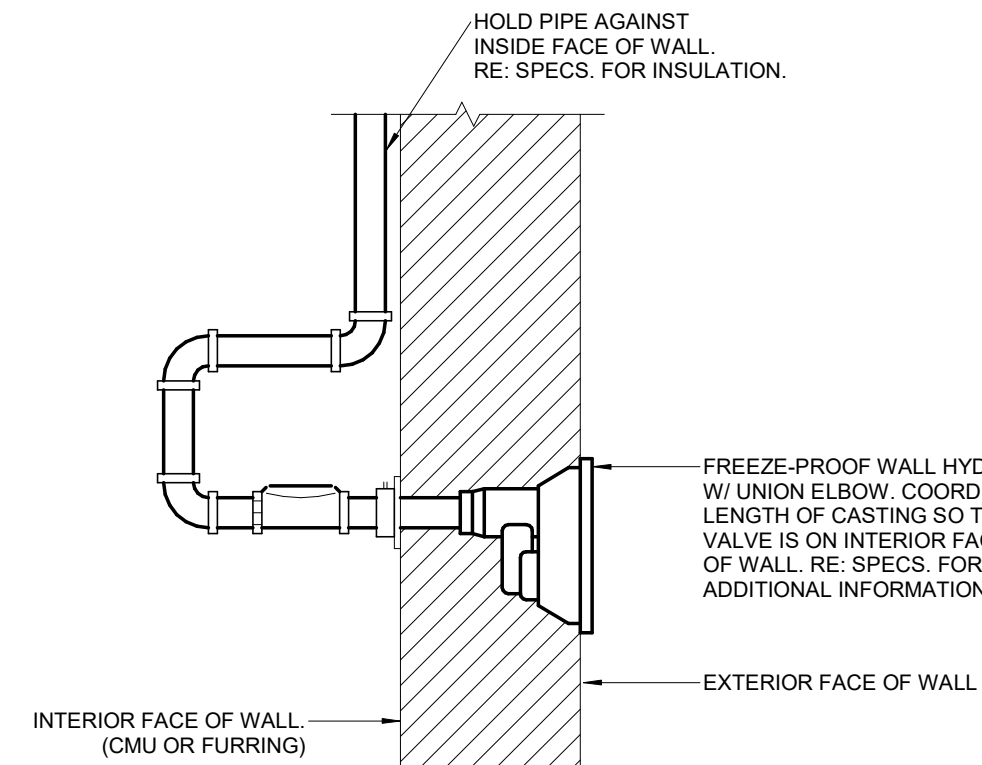


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 P1-2 (2021) PAC MEP.rvt

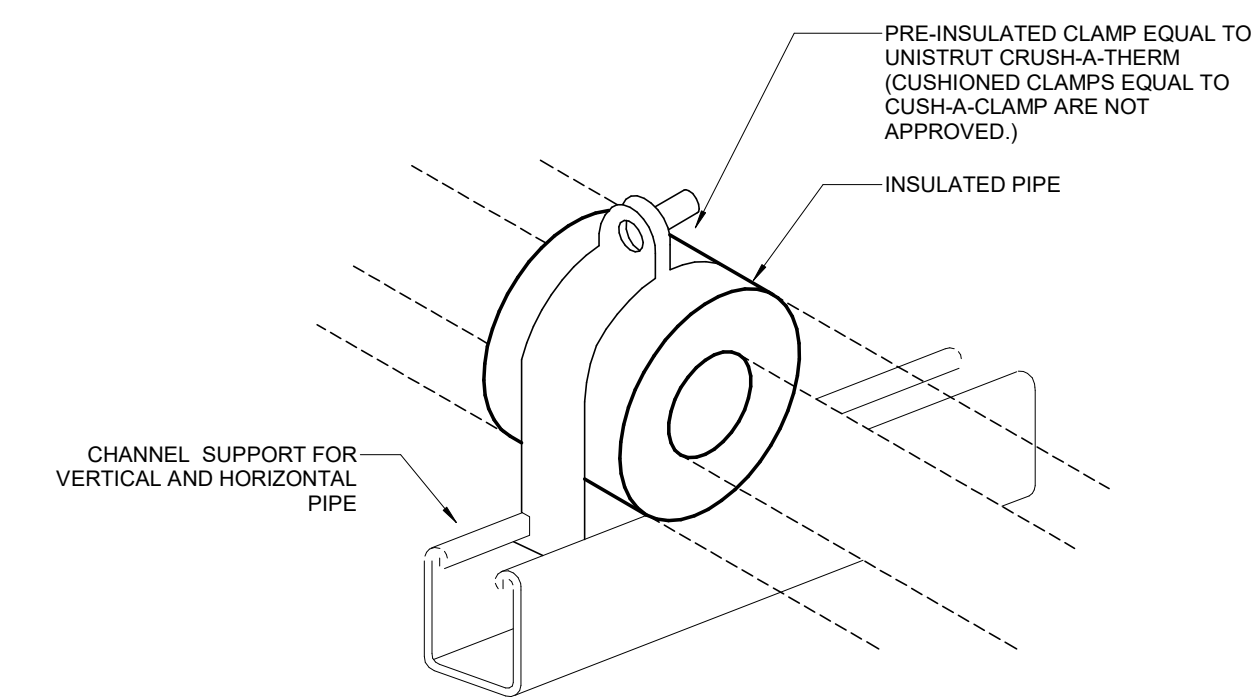
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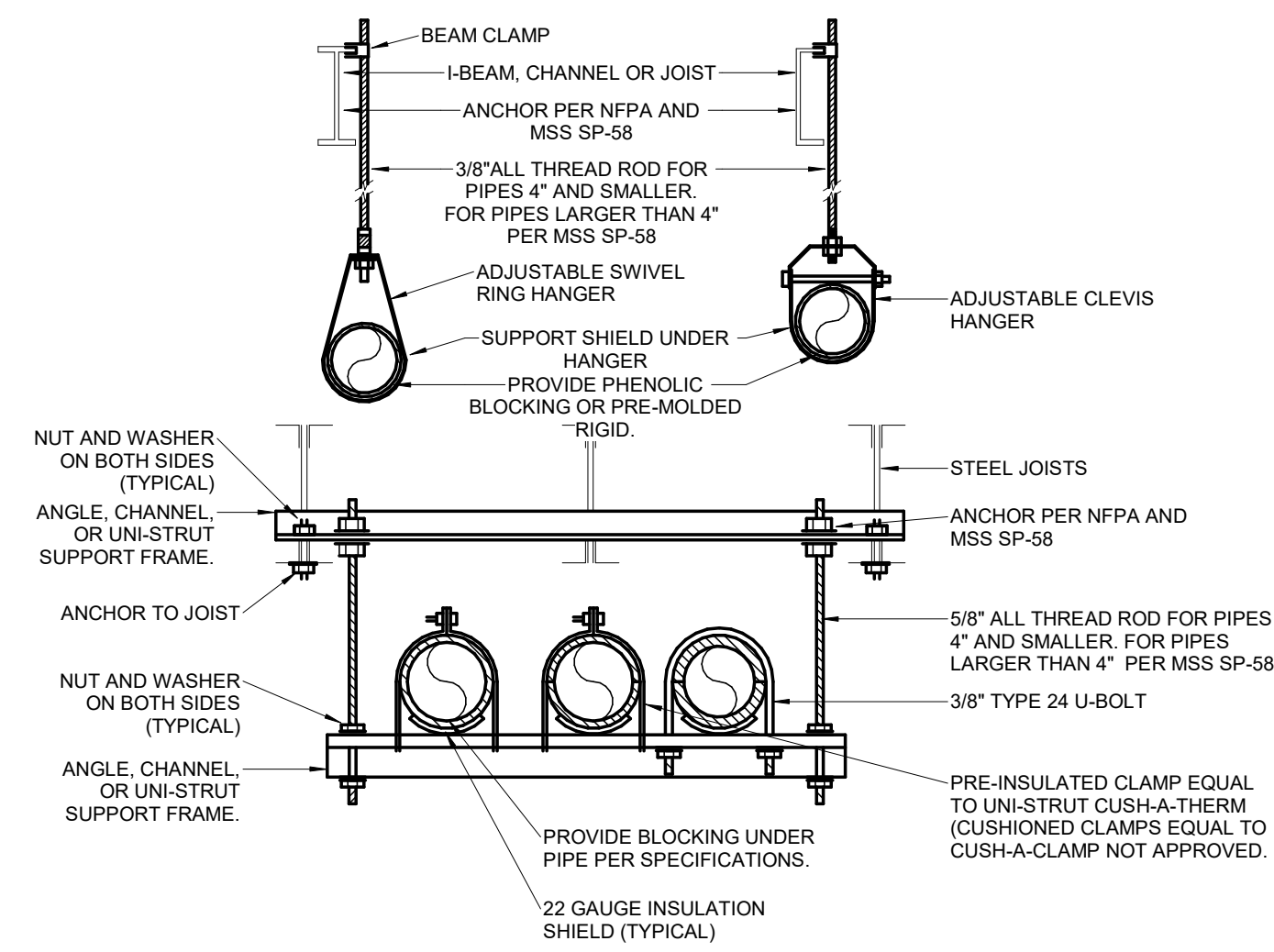
10 WATER HEATER DETAIL
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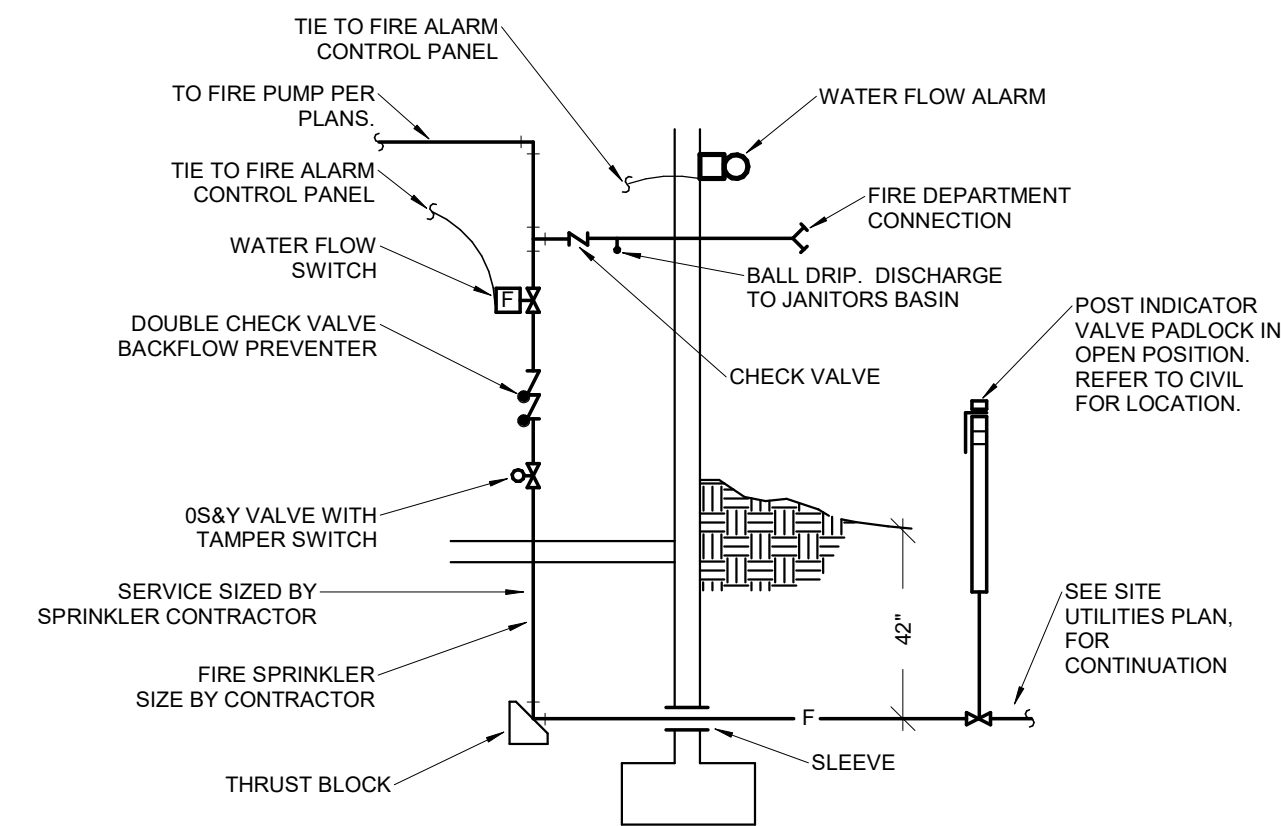
9 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE



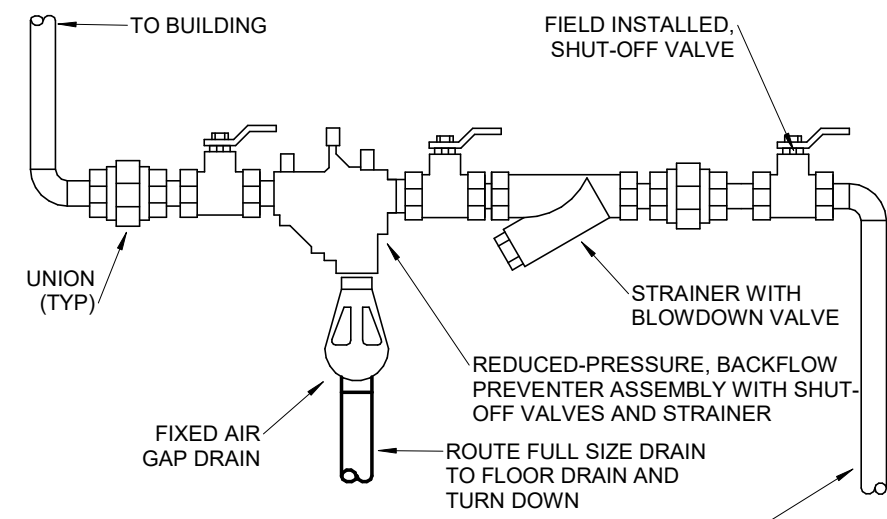
8 PIPE VERTICAL AND HORIZONTAL SUPPORT
SCALE: NOT TO SCALE



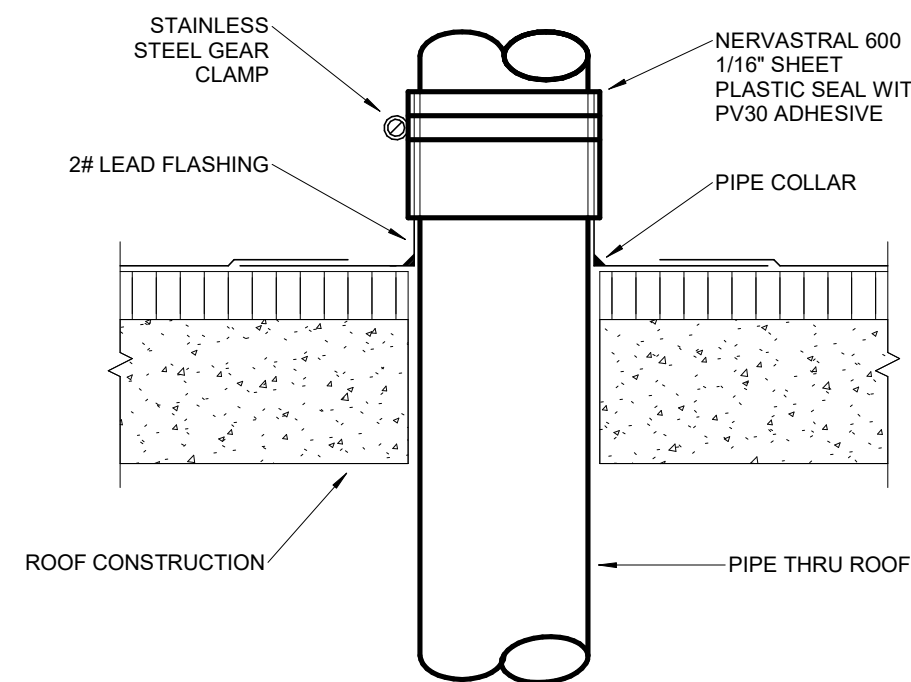
7 PIPE SUPPORT DETAIL
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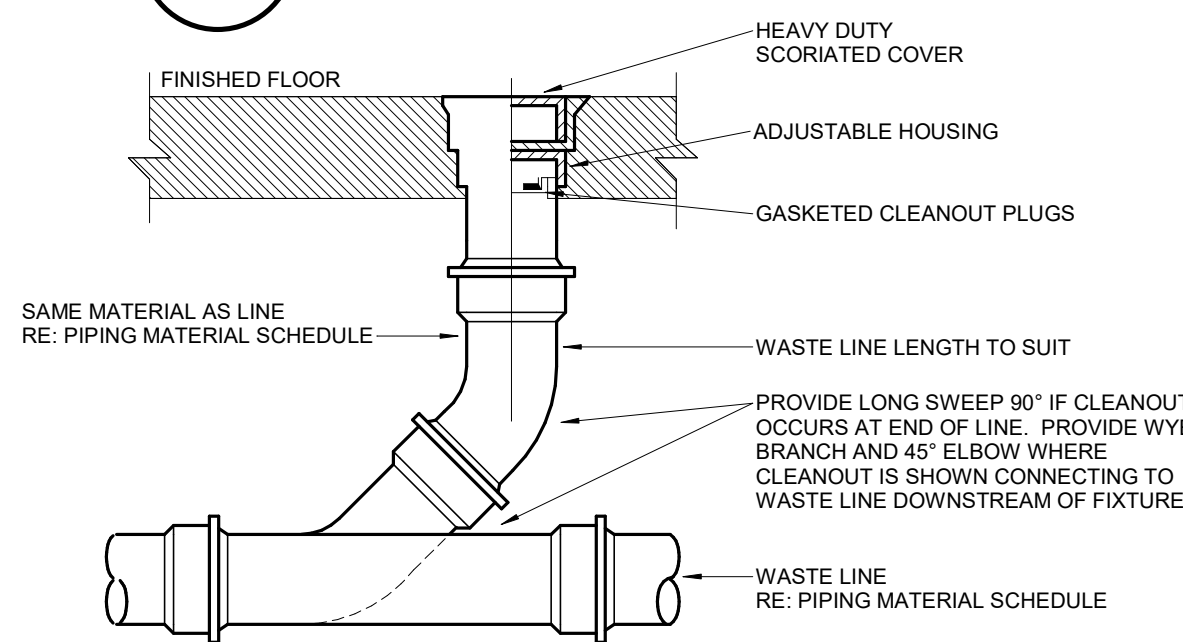
6 FIRE SPRINKLER RISER
SCALE: NOT TO SCALE



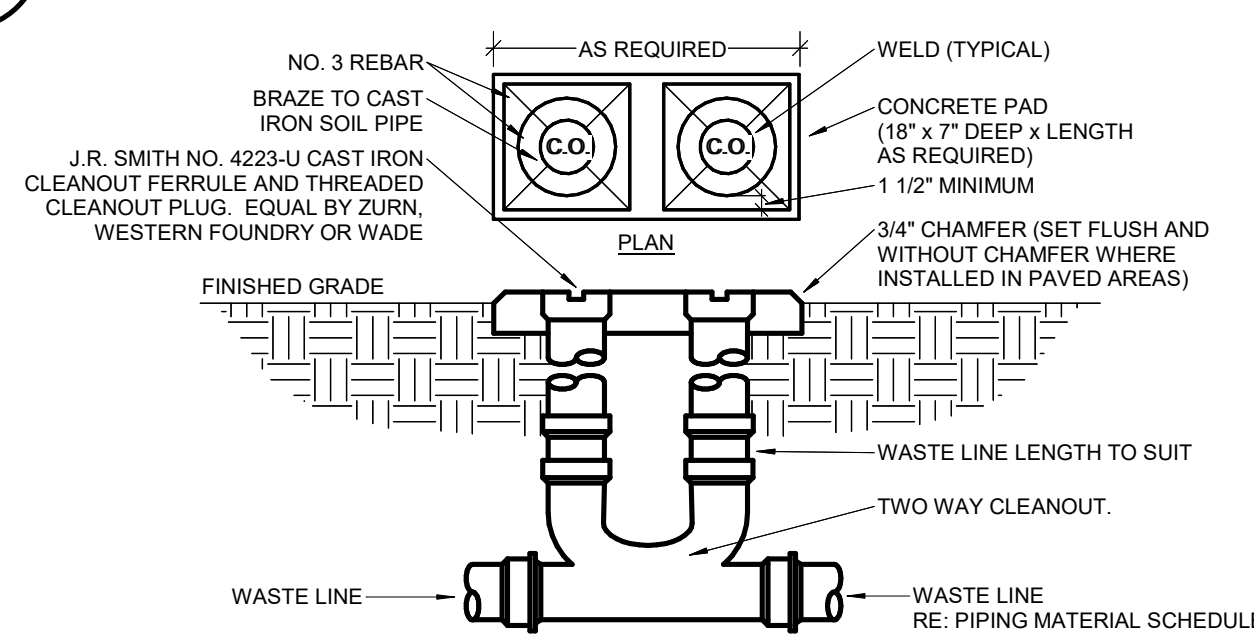
5 WATER SERVICE ENTRANCE DETAIL
SCALE: NOT TO SCALE



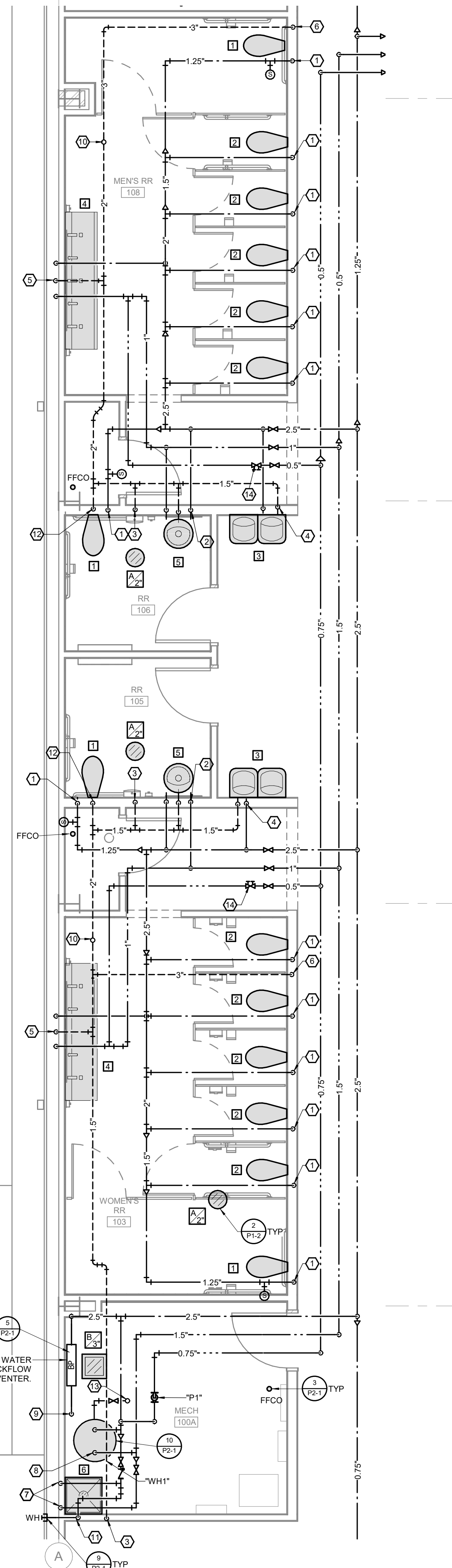
4 VENT THRU ROOF DETAIL
SCALE: NOT TO SCALE



3 FLOOR CLEANOUT DETAIL
SCALE: NOT TO SCALE



2 2-WAY FINISH GRADE CLEANOUT DETAIL
SCALE: NOT TO SCALE



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

PLAN HEX NOTES:

- 1 1.25" COLD WATER DOWN TO WATER CLOSET.
- 2 1.5" VENT, 0.5" COLD WATER, AND 0.5" HOT WATER DOWN TO LAVATORY.
- 3 1.5" VENT DOWN.
- 4 1.5" VENT AND 0.5" COLD WATER DOWN TO WATER COOLERS.
- 5 1.5" VENT, 1" COLD WATER, AND 1" HOT WATER DOWN TO LAVATORY STATION. PROVIDE 0.5" HOT AND COLD WATER CONNECTIONS TO EACH FAUCET.
- 6 3" CIRCUIT VENT DOWN.
- 7 0.5" COLD AND HOT WATER DOWN TO JANITOR'S BASIN. PIPING SHALL BE WITHIN 3.5" UNCOMPRESSED WALL INSULATION.
- 8 1.5" HOT AND COLD WATER DOWN TO WATER HEATER.
- 9 2.5" DOMESTIC WATER SERVICE DOWN.
- 10 3" VENT UP TO VENT THRU ROOF.
- 11 0.75" COLD WATER DOWN TO FREEZE PROOF WALL HYDRANT.
- 12 2" VENT DOWN.
- 13 0.75" LOW PRESSURE NATURAL GAS UP THRU ROOF.
- 14 BALANCE HW RECIRC BRANCH TO 1 GPM.

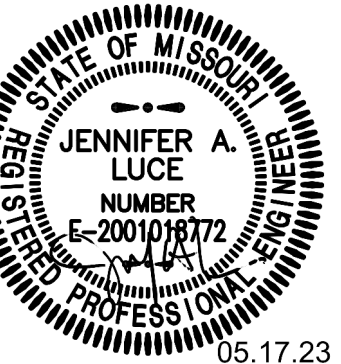


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CHECKED BY: JAL

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DATE:
05-17-2023

PLUMBING
DETAILS

SHEET NUMBER:

P2-1



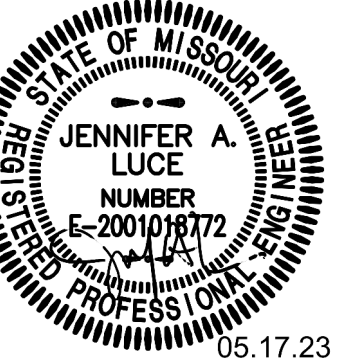
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REVISION SCHEDULE

WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	TYPE	GALLON CAPACITY	GPH @ 100 F	GAS HEATING			ELECTRICAL DATA				NOTES
						INPUT (BTU/H)	OUTPUT (BTU/H)	EFFICIENCY (%)	VOLTAGE	PHASE	MCA	MOCP (A)	
WH1	BRADFORD WHITE	LG2PDV50H603N	GAS	48	58	60000	57600	96	120	1	1	15	CNK PTRV

PUMP SCHEDULE

PLAN MARK	MANUFACTURER	SERIES	SIZE	INLET (IN)	FLOW (GPM)	TOTAL HEAD (FT HD)	NPSH (FT HD)	TYPE	WORK CLASS (PSI)	ELECTRICAL DATA			BODY CONSTRUCTION	FLUID PUMPED	FLUID TEMPERATURE (FT)	NOTES	
										MOTOR (HP)	RPM	VOLTAGE					PHASE
P1	BELL & GOSSETT	NFB	36	0.75"	10	25	10	IL	150	0.06	4600	120	1	AB	DHW	140	AB, AQ, T

DRAINAGE PIPE SPECIALTY SCHEDULE

PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	NOTES
A	7" ROUND FLOOR DRAIN	J.R. SMITH	2010-A	NICKEL BRONZE STRAINER, DEEP SEAL TRAP, SURE SEAL WATERLESS TRAP PRIMER	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE.
B	HOPPER STYLE FLOOR DRAIN WITH SEDIMENT BUCKET AND GRATE.	J.R. SMITH	2630	FLANGE, CAST IRON BODY, GRATE, SEDIMENT BUCKET.	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE.
FFCO	FINISHED FLOOR CLEANOUT	J.R. SMITH	4023	HARD FLOOR: ROUND CHROME PLATED SCORATED COVER, CARPET AREAS: NICKEL BRONZE TOP AND CARPET CLAMP OR CARPET MARKER.	VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS. CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.
FGCO	FINISHED GRADE CLEANOUT	J.R. SMITH	4223-U	EXTRA HEAVY DUTY CAST IRON VANDAL PROOF TOP.	IF NOT LOCATED IN CONCRETE, PROVIDE 18"x18"x7" CONCRETE PAD AROUND CLEANOUT WITH #3 REBAR AND CHAMFERED EDGES. CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTION SIZES				NOTES
					CW (IN)	HW (IN)	W (IN)	V (IN)	
1	ADA FLOOR MOUNT, FLUSH VALVE, BOTTOM OUTLET, WATER CLOSET	ZURN	Z5665-BWL1	FLUSH VALVE: ZER8000-CPM SENSOR OPERATED BATTERY FLUSH VALVE, OLSONITE 90SSCT OPEN FRONT WHITE SEAT LESS COVER.	1.25	-	4	2	COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED. FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF ACCESSIBLE WATER CLOSETS.
2	FLOOR MOUNT, FLUSH VALVE, BOTTOM OUTLET, WATER CLOSET	ZURN	Z5654-BWL	FLUSH VALVE: ZER8000-CPM SENSOR OPERATED BATTERY FLUSH VALVE, OLSONITE 90SSCT OPEN FRONT WHITE SEAT LESS COVER.	1.25	-	4	2	COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED. FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF ACCESSIBLE WATER CLOSETS.
3	WALL HUNG BI-LEVEL BARRIER FREE ELECTRIC WATER COOLER	ELKAY	EZSTL8WSLK	BOTTLE FILLER, GRID DRAIN, SAFETY BUBBLER, TRAP, CORD SET	0.5	-	2	1.5	FIXTURE IS ADA COMPLIANT. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT OF EACH COOLER. CAPACITY OF 8.0 GPH BASED UPON 80 DEGREE F. ROOM TEMPERATURE AND 50 DEGREE F. DRINKING WATER TEMPERATURE.
4	WALL MOUNT, THREE STATION LAVATORY	TRUEFORM	FLO-90V-TPL-CONTEMPO	FAUCET: (3) ZURN Z8950-XL-S BATTERY POWERED SENSOR FAUCETS, CONCEALED ARM CARRIER, PROVIDE ASSE 1070 MIXING VALVES SET TO 105°F IF NOT INTEGRAL TO FAUCETS, GRID DRAINS, TRAPS, SUPPLY STOPS, FLEXIBLE BRAIDED HOT AND COLD WATER LINES, STEEL WALL BRACKETS AND WALL GUARDS.	-	-	-	-	STANDARD COLOR SELECTION BY ARCHITECT. PROVIDE GRID DRAINS, TRAPS, SUPPLIES, ETC. AS REQUIRED FOR EACH OF (3) STATIONS FOR THE MULTI-STATION LAVATORY BASIN. INSTALLATION SHALL BE ADA COMPLIANT.
5	OVAL UNDERMOUNT LAVATORY	ZURN	Z5220	FAUCET: ZURN Z8950-XL-S BATTERY POWERED SENSOR FAUCET, PROVIDE ASSE 1070 MIXING VALVE SET TO 105°F IF NOT INTEGRAL TO FAUCET, GRID DRAIN, TRAP, SUPPLY STOPS, FLEXIBLE BRAIDED HOT AND COLD WATER LINES.	0.5	0.5	1.5	1.5	FAUCET HOLES TO MATCH FAUCET SPECIFIED. PROVIDE INSULATION KIT ON ALL ACCESSIBLE FIXTURES WITH EXPOSED TRAP AND SUPPLIES.
6	FLOOR MOUNT, 24X24X10, JANITOR'S BASIN	FIAT	MSB-2424	FAUCET: FIAT MODEL 830AA, 832-AA HOSE AND HOSE BRACKET, 889-CC MOP HANGER, QDC-35N QUICK DRAIN CONNECTOR, 3" GRID DRAIN, MOLDED STONE BASIN, STAINLESS STEEL WALL GUARDS.	0.5	0.5	3	1.5	MOP BASIN WITH STAINLESS STEEL WALL GUARDS AND CONTINUOUS STAINLESS STEEL CAPS ON ALL CURBS.
WH	FREEZE LESS WALL HYDRANT	WOODFORD	MODEL 67	LOOSE TEE HANDLE, MODEL 50H DOUBLE CHECK BACKFLOW PREVENTER, CHROME EXTERIOR FINISH.	0.75	-	-	-	PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS

PIPE MATERIAL SCHEDULE

SYSTEM	SIZE	TYPE	PIPING			FITTINGS			MAX. WORKING		FIELD TEST	
			SCHEDULE	GRD	ASTM	MATERIAL	MATERIAL	TYPE	PRESS. (PSI)	TEMP. (°F)	PRESS. (PSI)	TIME
DOMESTIC WATER SERVICE	0.75" - 3"	PVC	40	-	D1785	PVC	PVC	SW	125	50-90	200	1 HR
DOMESTIC WATER ABOVE GRADE	-	L	-	-	B88	CP	CP	SJ	120	40-180	150	1 HR
FIRE SPRINKLER SERVICE	4" & UP	PVC	-	-	AWWA C900	PVC	DI	MJ	200	50-90	200	2 HR
FIRE PROTECTION	ALL	-	-	-	PER	NFPA	13	-	-	-	200	2 HR
FIRE PROTECTION & STANDPIPE	ALL	-	-	-	PER	NFPA	13	AND	14	-	200	2 HR
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	M	-	-	B88	CP	DRS	10 FT	140-210	10 FT	1 HR	
WASTE & VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DRSW	10 FT	50-140	10 FT	1 HR
WASTE & VENT BELOW GRADE	ALL	NH	SS	-	A74	CI	DRNH	10 FT	50-180	10 FT	1 HR	
CONDENSATE DRAIN ABOVE GRADE	ALL	M	-	-	B88	CP	CP	DRS	10 FT	40-70	10 FT	1 HR
NATURAL GAS ABOVE GRADE	0.5" - 2.5"	OW	40	-	A53	CSBLK	MI	THRD	1	-	100	1 HR
NATURAL GAS BELOW GRADE	0.5" - 2"	PE	SDR11	3408	D2513	PE	PE	HF	80	-	100	1 HR

SCHEDULE LEGEND

ABBREVIATED SCHEDULE HEADINGS
EFFICIENCY MINIMUM EFFICIENCY OF WATER HEATER
GPH GALLONS PER HOUR
HP HORSEPOWER
LOAD NOMINAL CONNECTED GAS LOAD TO UNIT, USED TO SIZE GAS PIPING.
NPSH NET POSITIVE SECTION HEAD
OUTPUT MINIMUM REQUIRED OUTPUT TO MEET GPH RISE AS SCHEDULED
RPM REVOLUTIONS PER MINUTE
PIPE MATERIAL SCHEDULE
ATP ARMCO TRUSS PIPE
BLK BLACK
BS BELL & SPIGOT
CF CRIMPED FITTING
CI CAST IRON
CP COPPER
CS CARBON STEEL
CTD PIPE LINE SERVICE COMPANY X-TRU-COAT HIGH DENSITY POLYETHYLENE COATING EXTRUDED OVER PIPE
CW CONTINUOUS WELD
DI DUCTILE IRON
DR DRAINAGE FITTING
GLV GALVANIZED
HF HEAT FUSED
LC LEAD CALCULATING
MI MALLEABLE IRON
MJ MECHANICAL JOINT
NG NEOPREME GASKET
NH NO-HUB
PE POLYETHYLENE
PVC POLYVINYL CHLORIDE
S BRAZED JOINT - SILVER BRAZING ALLOY
SJ SPOLDER JOINT 95-5 TIN-ANTIMONY
SL SEAMLESS STEEL
SS STANDARD STRENGTH - SERVICE WEIGHT
SW SOLVENT WELD
THRD THREADED
TS TY-SEAL
VCP WITRIFIED CLAY PIPE
WELD WELDED
XH EXTRA HEAVY
PUMP SCHEDULE
AB ALL BRONZE
AQ AQUISTAT
BMCCES BASE MOUNTED CLOSED COUPLED END SUCTION
BMES BASE MOUNTED END SUCTION
BMHSC BASE MOUNTED HORIZONTAL SPLIT CASE
BMVSC BASE MOUNTED VERTICAL SPLIT CASE
C CONDENSER WATER
CH CHILLED HOT WATER
CW CHILLED WATER
DCW DOMESTIC COLD WATER
DHW DOMESTIC HOT WATER
HW HEATING HOT WATER
IL IN-LINE
T TIMER KIT
WATER HEATER SCHEDULE
CNK CONDENSATE NEUTRALIZATION KIT
PTRV PRESSURE & TEMPERATURE RELIEF VALVE

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL
DRAWN BY: TSE
CHECKED BY: JAL

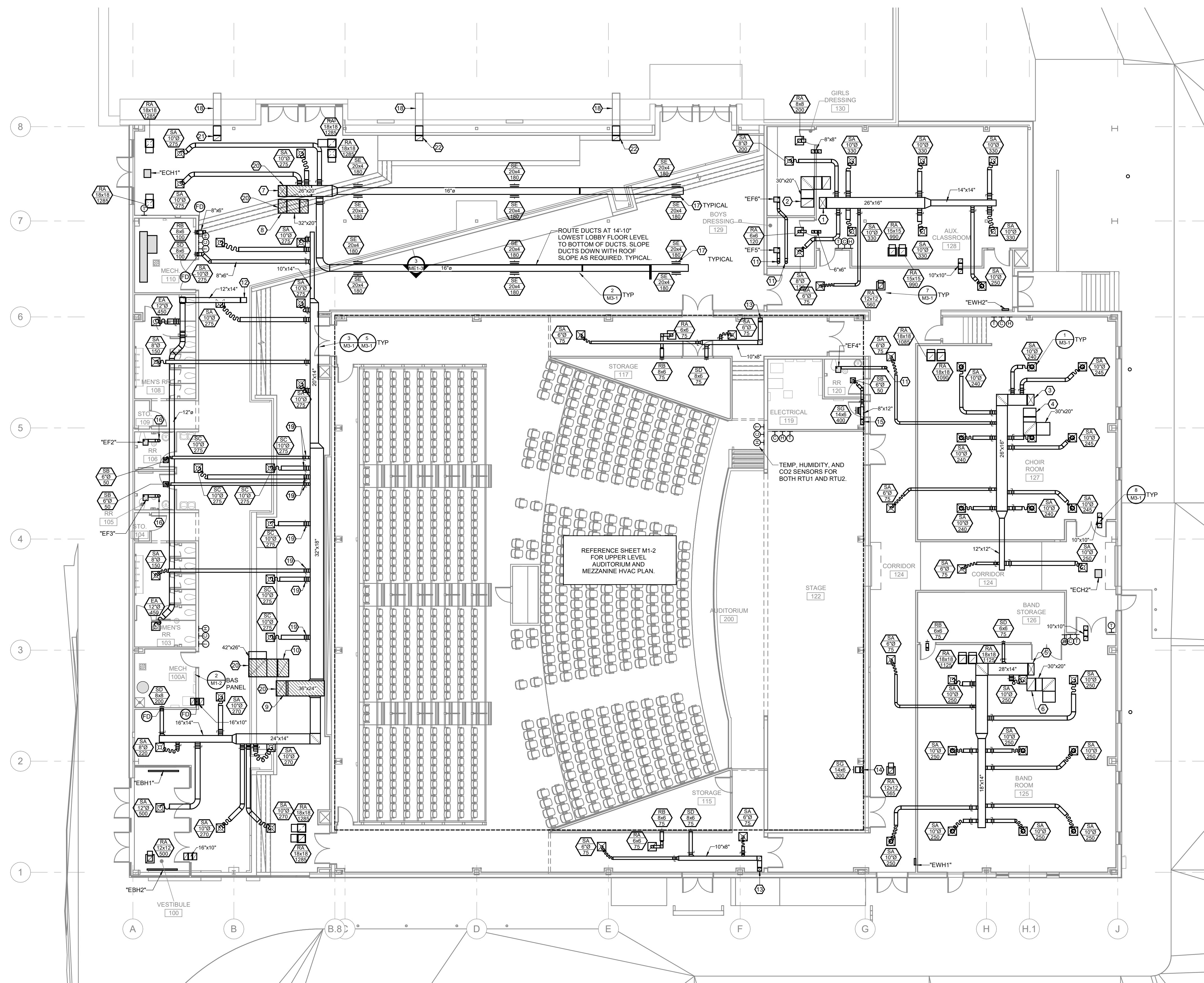
PROJECT NUMBER:
21-620

DATE:
05-17-2023

PLUMBING SCHEDULES

SHEET NUMBER:

P3-1



1 FIRST FLOOR HVAC PLAN
 M1-1 SCALE: 3/32" = 1'-0" NORTH

GENERAL NOTES:

- A. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL MECHANICAL CODE AS ADOPTED BY THE CITY OF CASSVILLE, MO.
- B. FOR ALL MECHANICAL QUESTIONS ON THIS PROJECT, CONTACT RTM ENGINEERING CONSULTANTS AT (417) 881-0020. CONTACT: TYLER ENSERRO, tyler.enserro@rtmec.com.
- C. ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION BOXES, ETC., LOCATED IN CONCEALED SPACES. PROVIDE ACCESS DOOR FOR ALL FIRE DAMPERS AS REQUIRED FOR SERVICE.
- D. THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.
- E. PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.
- F. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.
- G. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- H. BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
- I. PROVIDE TURNING VANES IN ALL RECTANGULAR MITERED ELBOWS.
- J. ALL EQUIPMENT SHALL BE INSTALLED TO ALLOW FULL MAINTENANCE ACCESS PER MANUFACTURER'S RECOMMENDATIONS.
- K. PROVIDE BALANCE DAMPER ON ALL SUPPLY, EXHAUST, AND OUTSIDE AIR BRANCH DUCTS TO OUTLETS, WHETHER INDICATED IN PLANS OR NOT.
- L. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSITIONS TO ALL EQUIPMENT OPENING SIZES.
- M. PAINT ALL EXPOSED PIPING, DUCTWORK, AND SUPPORTS PER ARCHITECT.
- N. EACH CONTRACTOR AND SUB CONTRACTOR OR TRADE SHALL REVIEW THE BID DOCUMENTS AS A WHOLE INCLUDING ALL OTHER TRADES' DRAWINGS AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK SHOWN ON ALL BID DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES: STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE BID DOCUMENTS AND SHALL BE REVIEWED WITH THE SPECIFIC MEER, STRUCTURAL, ARCHITECTURAL, AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.

PLAN HEX NOTES:

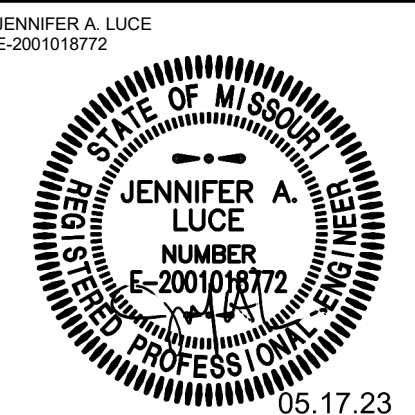
- 1 26 X 16 SA UP TO "RTU3" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 2 30 X 20 RA UP TO "RTU3" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 3 26 X 16 SA UP TO "RTU4" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 4 30 X 20 RA UP TO "RTU4" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 5 26 X 16 SA UP TO "RTU5" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 6 30 X 20 RA UP TO "RTU5" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 7 26 X 20 SA UP TO "RTU6" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 8 32 X 20 RA UP TO "RTU6" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 9 36 X 24 SA UP TO "RTU7" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 10 42 X 26 RA UP TO "RTU7" ON ROOF. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS TO UNIT CONNECTION SIZE AS REQUIRED.
- 11 6" EXHAUST DUCT UP THRU ROOF TO ROOF JACK.
- 12 14 X 12 EA UP TO "EF1" ON ROOF.
- 13 10 X 8 SA UP TO MEZZANINE LEVEL.
- 14 14 X 6 SA UP TO MEZZANINE LEVEL.
- 15 12 X 8 SA UP TO MEZZANINE LEVEL.
- 16 6" EA UP THRU ROOF TO ROOF JACK.
- 17 INSTALL SUPPLY GRILLE ON ROUND DUCT AT 30 DEGREES DOWN FROM HORIZONTAL.
- 18 EXISTING EXHAUST DUCT INTO EXISTING BUILDING SHALL REMAIN.
- 19 FOR BALANCING DAMPERS THAT ARE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE DAMPER REGULATORS WITH CABLES EXTENDED TO CABLE CONTROLLER INSTALLED ABOVE NEAREST ACCESSIBLE CEILING.
- 20 PROVIDE ACOUSTICAL LAGGING WRAP AROUND PORTION OF DUCT AND FITTINGS SHOWN AS HATCHED. ENOISE CONTROL DL-10-LAG-01 OR EQUAL LAGGING SHALL HAVE STC OF 30, 1" R-4, AND VINYL NOISE BARRIER.
- 21 EXTEND EXHAUST DUCT FROM EXISTING BUILDING UP THRU ROOF TO ROOF JACK. MATCH EXISTING SIZE.
- 22 EXTEND EXHAUST DUCT FROM EXISTING BUILDING UP THRU ROOF TO ROOF JACK. MATCH EXISTING SIZE. PAINT EXPOSED DUCTWORK TO MATCH SURROUNDING AREAS.



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REVISION SCHEDULE

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL
 DRAWN BY: TSE
 CHECKED BY: JAL

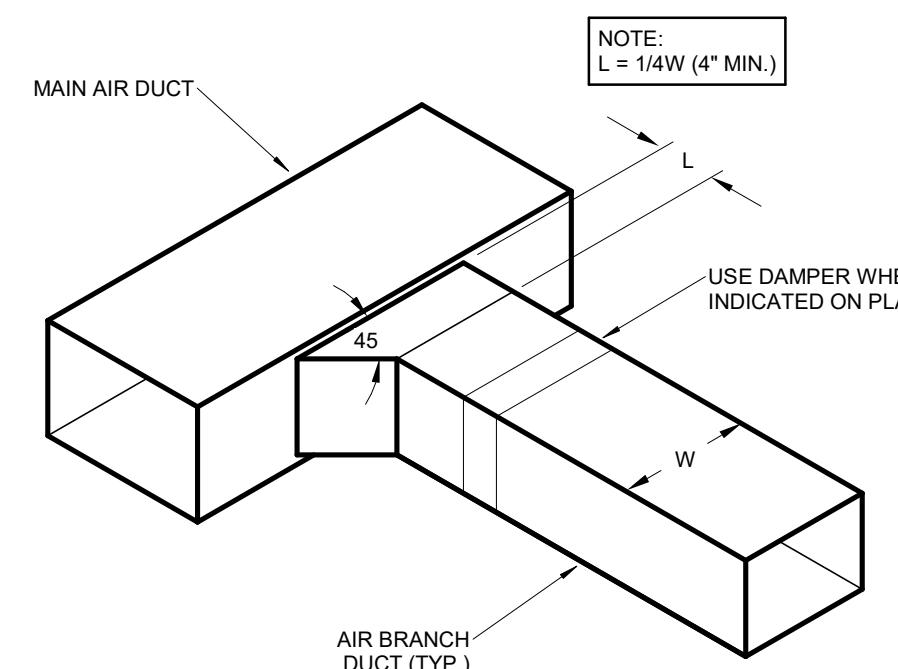
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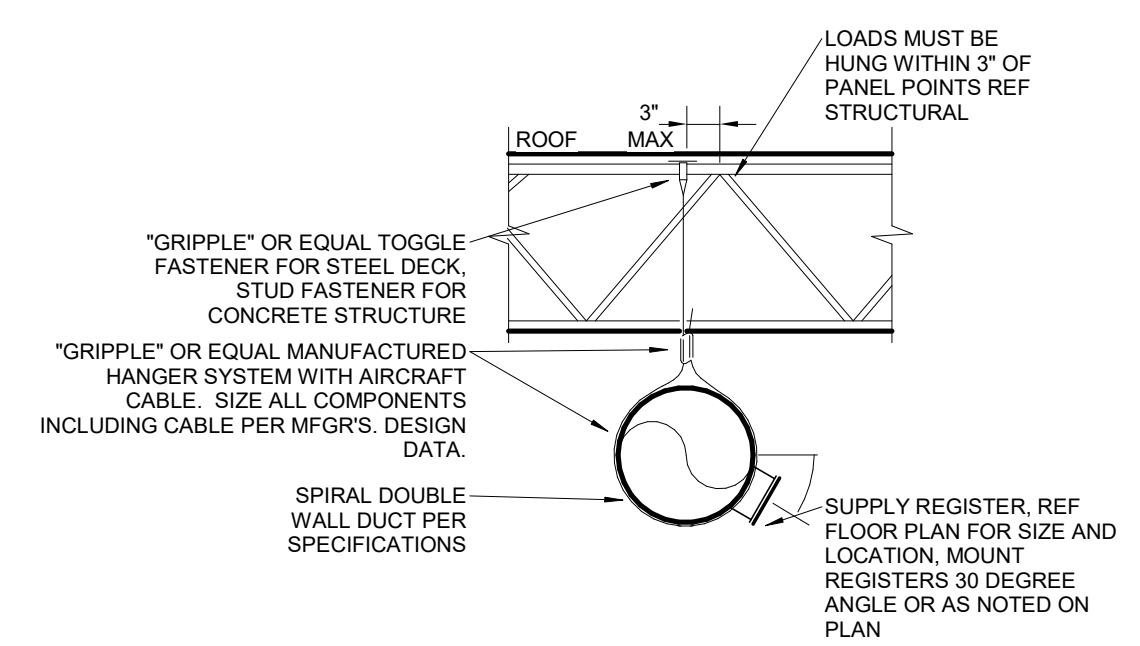
FIRST FLOOR HVAC PLAN

SHEET NUMBER:

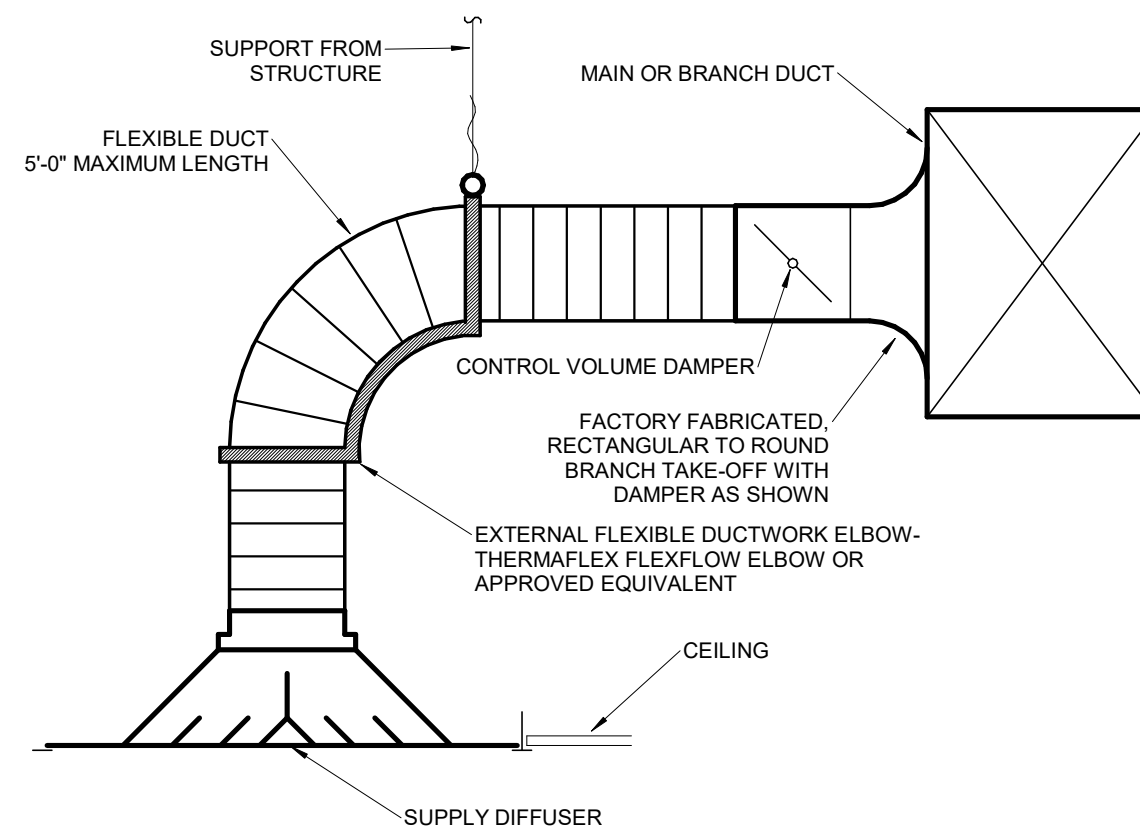
M1-1



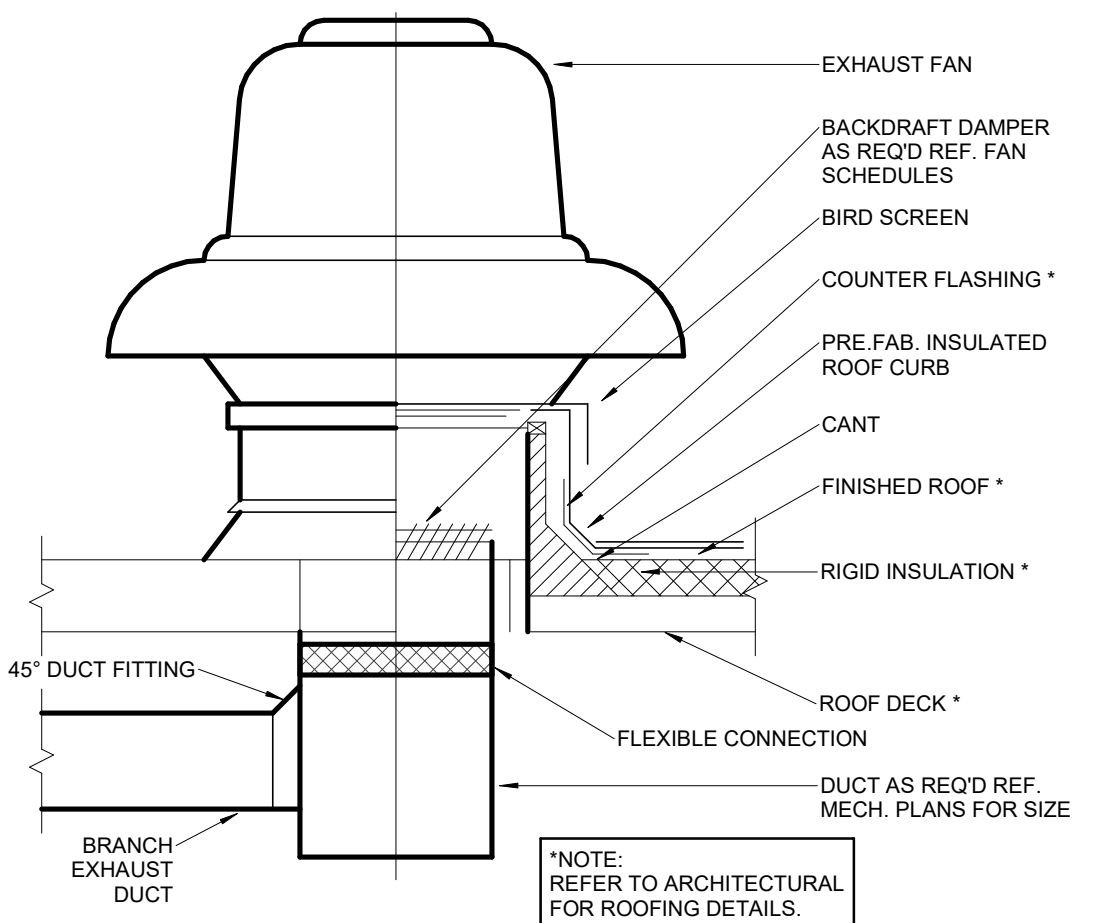
3 DUCTWORK CONSTRUCTION DETAIL
 SCALE: NOT TO SCALE



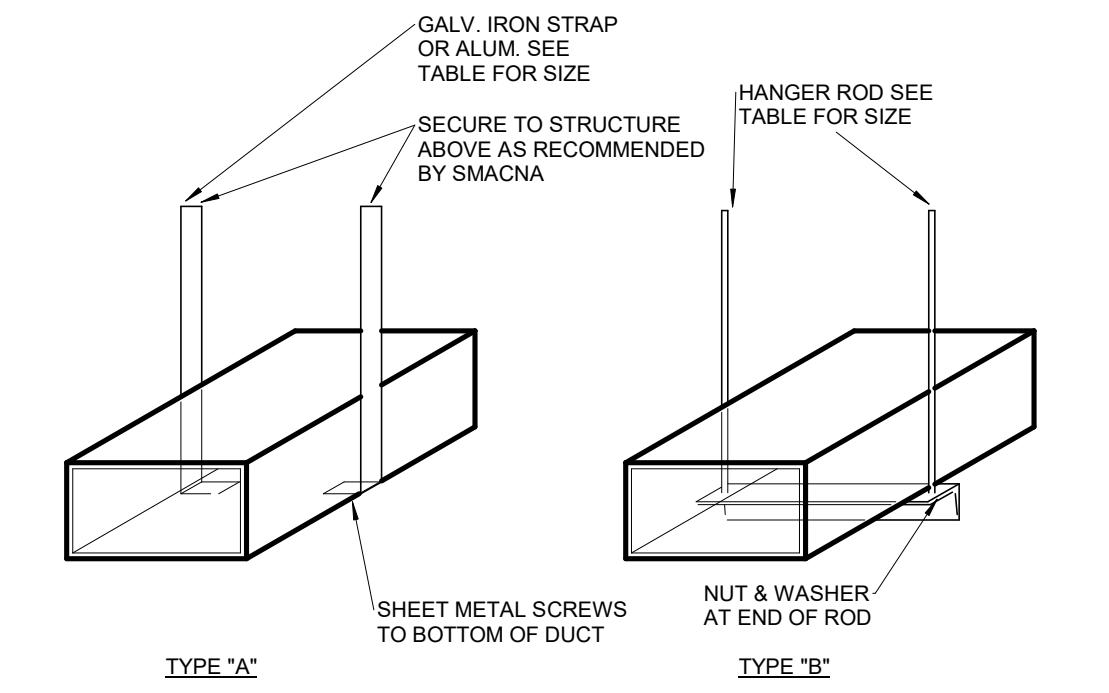
2 ROUND DUCT SUPPORT AND GRILLE
 SCALE: NOT TO SCALE



1 CEILING DIFFUSER DETAIL
 SCALE: NOT TO SCALE



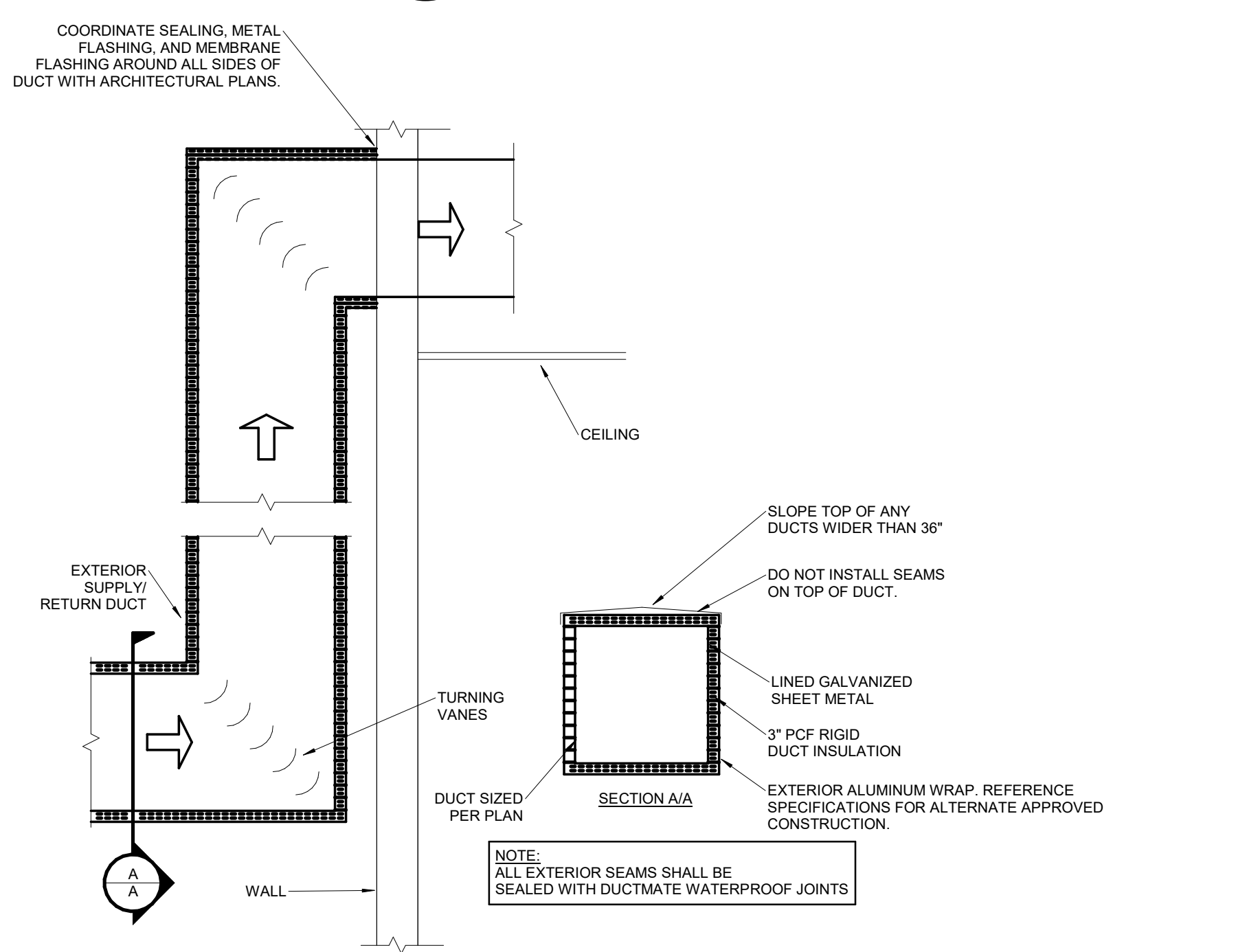
6 EXHAUST FAN DETAIL
 SCALE: NOT TO SCALE



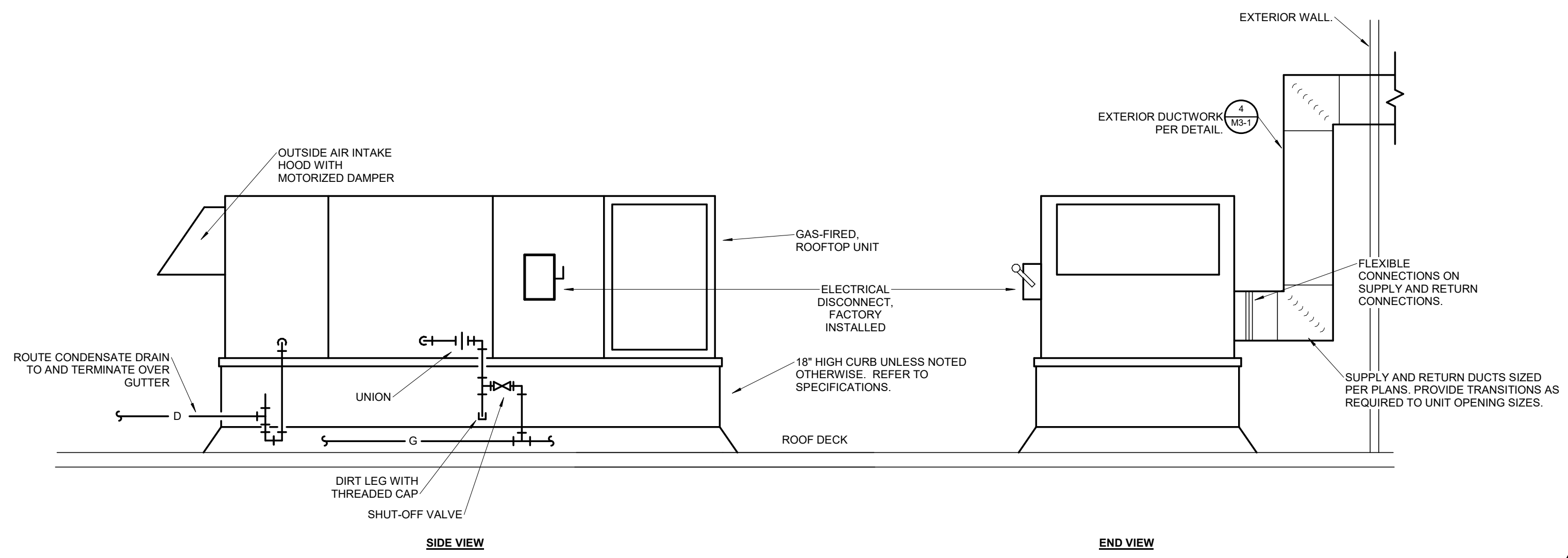
DUCT HANGER SCHEDULE					
DUCT SIZE (INCH)	TYPE OF HANGER	HANGER SPACING (FT)	STRAP SIZE	ROD SIZE (INCH)	ANGLE FOR BRACING
UP TO 12	A	8'-0"	1"x16GA	N.A.	N.A.
13 TO 18	A	8'-0"	1"x16GA	N.A.	N.A.
19 TO 30	A/B	8'-0"	1"x16GA	1/4"	1-1/2"x1-1/2"x1/8"
31 TO 42	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
43 TO 54	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
55 TO 60	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x1/8"
61 TO 84	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x3/16"
85 TO 96	B	8'-0"	N.A.	1/4"	1-1/2"x1-1/2"x3/16"
OVER 96	B	8'-0"	N.A.	3/8"	2"x2"x1/4"

NOTES:
 1. FOR SEVERAL DUCTS ON ONE HANGER, TYPE "B" MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX WIDTH OF DUCT SCHEDULE.
 2. ON TYPE "A" HANGER, PROVIDE 3 HANGERS AT EACH TAKE-OFF OR BRANCH.

5 DUCT SUPPORT DETAIL
 SCALE: NOT TO SCALE

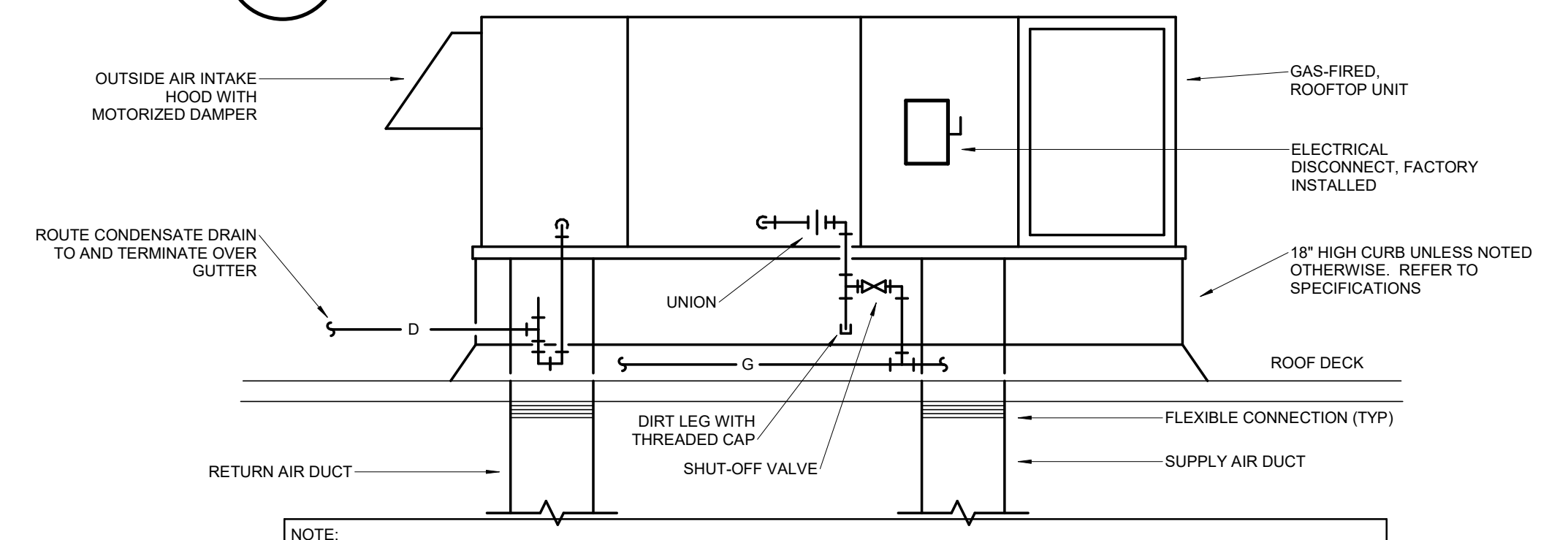


4 EXTERIOR SUPPLY AND RETURN AIR DUCT DETAIL
 SCALE: NOT TO SCALE



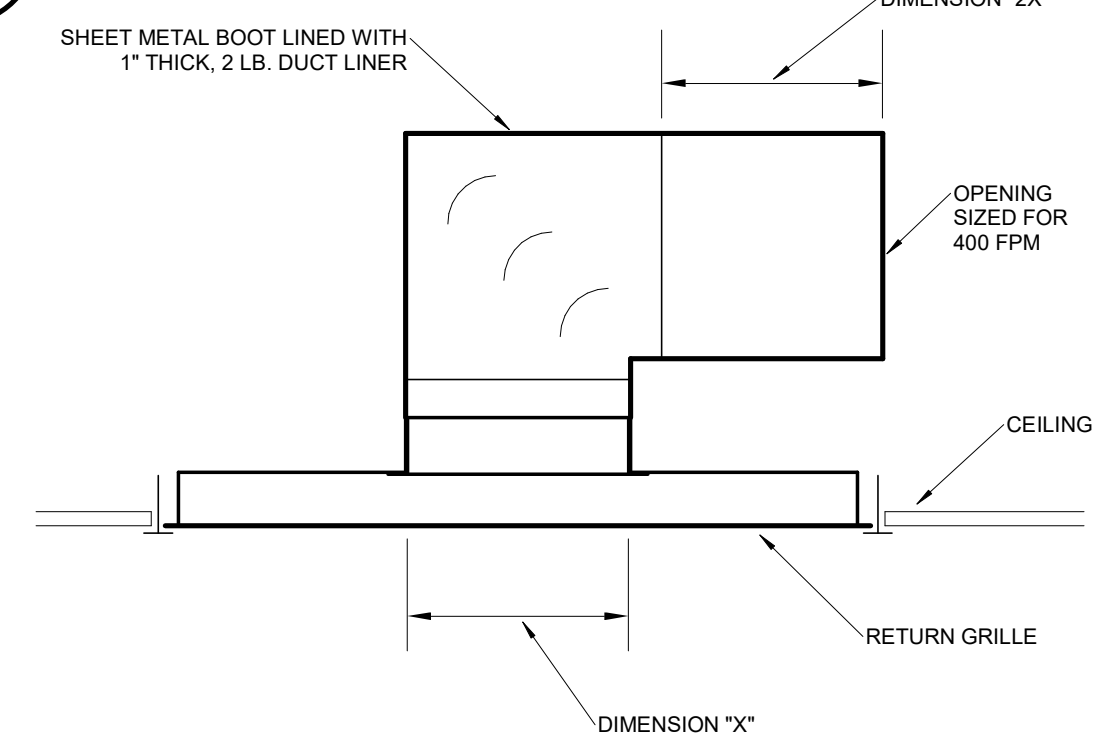
NOTE: IF APPLICABLE, A FIELD INSTALLED DISCONNECT SHALL BE MOUNTED SO THAT IT DOES NOT VOID ANY WARRANTIES ON THE UNIT SERVED.

10 HORIZONTAL DISCHARGE ROOFTOP UNIT DETAIL
 SCALE: NOT TO SCALE



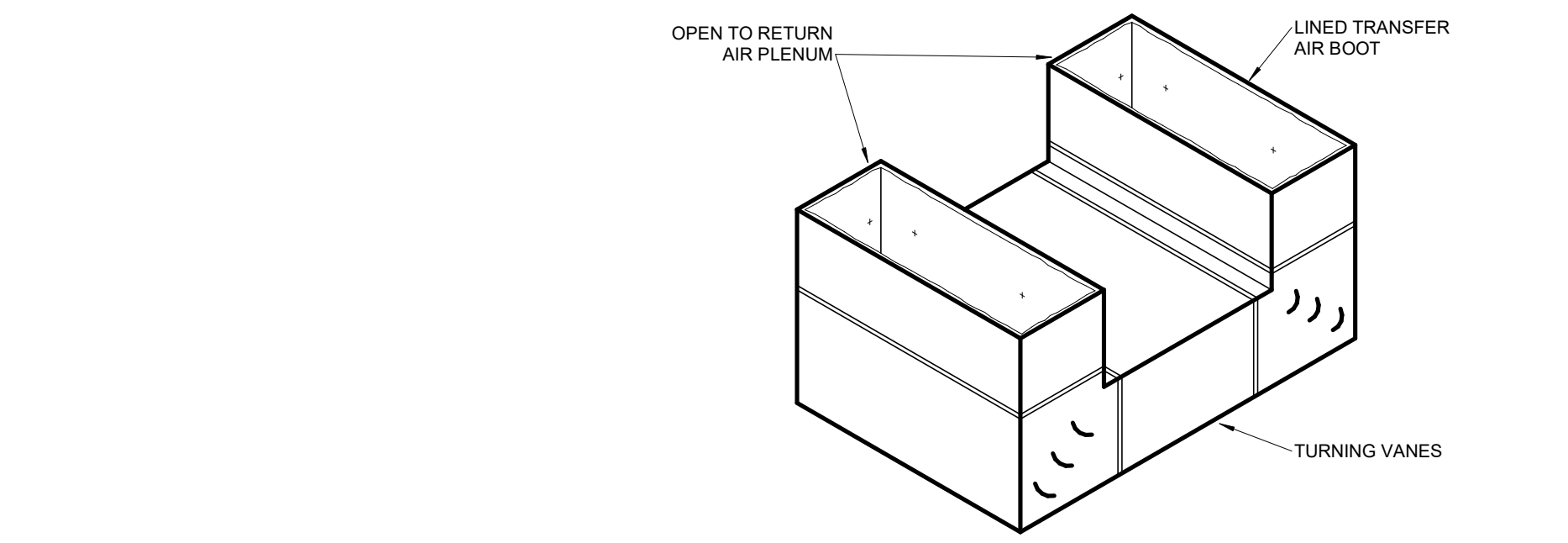
NOTE: IF APPLICABLE, A FIELD INSTALLED DISCONNECT SHALL BE MOUNTED SO THAT IT DOES NOT VOID ANY WARRANTIES ON THE UNIT SERVED.

8 TRANSFER AIR DUCT DETAIL
 SCALE: NOT TO SCALE



7 RETURN AIR BOOT DETAIL
 SCALE: NOT TO SCALE

9 ROOFTOP UNIT DETAIL
 SCALE: NOT TO SCALE



1 CEILING DIFFUSER DETAIL
 SCALE: NOT TO SCALE



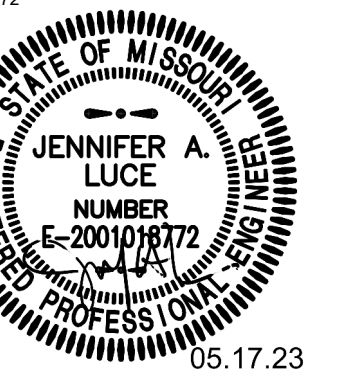
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REVISION SCHEDULE

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY. Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL
 DRAWN BY: TSE
 CHECKED BY: JAL

PROJECT NUMBER:
 21-620

DATE:
 05-17-2023

MECHANICAL SCHEDULES

SHEET NUMBER:

M4-1

ABBREVIATED SCHEDULE HEADINGS	
A	AMPS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
E.A.T.	ENTERING AIR TEMPERATURE
E.S.P.	EXTERNAL STATIC PRESSURE INCLUDES ALL WORK EXTERNAL TO UNIT
E.W.T.	ENTERING WATER TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EST.	ESTIMATED
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR/LB	GRAINS OF MOISTURE PER POUND OF DRY AIR
HP	HORSEPOWER
IN	INCH
ISP	INLET STATIC PRESSURE
L.A.T.	LEAVING AIR TEMPERATURE
L.W.T.	LEAVING WATER TEMPERATURE
LBS	POUNDS
LOAD	NOMINAL CONNECTED GAS LOAD TO UNIT, USED TO SIZE GAS PIPING
MCA	MINIMUM CIRCUIT AMPACITY
MIN.	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	MAXIMUM NOISE CRITERIA RATING
NPSH	NET PRESSURE SUCTION HEAD
OA	OUTSIDE AIR
OUTPUT	MINIMUM REQUIRED OUTPUT TO SATISFY SCHEDULED HEATING REQUIREMENTS
PPH	POUNDS PER HOUR
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SHC	SENSIBLE HEAT CAPACITY
TCC	TOTAL COOLING CAPACITY
TEMP.	TEMPERATURE
THC	TOTAL HEAT CAPACITY
WB	WET BULB
WPD	WATER PRESSURE DROP
ELECTRIC BASEBOARD HEATER	
DS	ELECTRICAL DISCONNECTING MEANS
T	INTEGRAL THERMOSTAT
ELECTRIC CEILING HEATER	
CMF	CEILING MOUNTING FRAME
DS	ELECTRICAL DISCONNECTING MEANS
T	WALL THERMOSTAT THERMOSTAT
ELECTRIC WALL HEATER	
DS	ELECTRICAL DISCONNECT SWITCH
MB	RECESSED MOUNTING BOX
T	INTEGRAL THERMOSTAT
EXHAUST FAN SCHEDULE	
BD	BELT DRIVE MOTOR
CURB	ROOF CURB
DD	DIRECT DRIVE MOTOR
DM	DISCONNECT MEANS
EPC	INDUSTRIAL STRENGTH EPOXY POWDER COAT FOR ALL PARTS EXPOSED TO AIR STREAM
GBD	GRAVITY BACKDRAFT DAMPER
RJ	ROOF JACK
SC	SPEED CONTROLLER
PACKAGED ROOFTOP UNIT SCHEDULE	
ZSH	2-STAGE BURNER FOR HEAT EXCHANGER
BRD	BAROMETRIC RELIEF DAMPER WITH HOOD
CC	FIELD PAINTED CUSTOM COLOR
CCH	CRANKCASE HEATER
CO2	SPACE MOUNTED CO2 SENSOR FOR DDC OPERATION WITH OVERRIDE AS NOTED ON THE PLANS.
CR	MANUFACTURER MOUNTED GFCI CONVENIENCE RECEPTACLE
CURB	ACOUSTIC INSULATED FULL ROOF CURB (MINIMUM 18" HEIGHT) WITH (2) LAYERS OF 0.5" GYP BOARD.
DS	SINGLE POINT MEANS OF DISCONNECT
ECON	0-100% MODULATING OUTDOOR AIR ECONOMIZER WITH BAROMETRIC RELIEF
F	PROVIDE 2" MERV 13 PLEATED FILTER WITH HOLDING FRAME
H	SPACE MOUNTED HUMIDITY SENSOR FOR DDC OPERATION WITH OVERRIDE AS NOTED ON THE PLANS.
HGB	HOT GAS BYPASS
HGR	HOT GAS REHEAT DEHUMIDIFICATION CYCLE
LA0	LOW AMBIENT COOLING CONTROLS CAPABLE OF OPERATING IN COOLING MODE DOWN TO 0°F
LA32	LOW AMBIENT COOLING CONTROLS CAPABLE OF OPERATING IN COOLING MODE DOWN TO 32°F
LC	LOCKABLE COVERS FOR ALL SPACE MOUNTED SENSORS
MH	MODULATING NATURAL GAS HEATING
MHGR	MODULATING HOT GAS REHEAT
MOAE	0-100% MODULATING OUTDOOR AIR ECONOMIZER WITH BAROMETRIC RELIEF
MPC	PROVIDE MICROPROCESSOR CONTROLS AND DIGITAL ROOM SENSOR
PE	POWER EXHAUST FAN TO RUN IN CONJUNCTION WITH ECONOMIZER
R410A	PROVIDE UNIT WITH R410A REFRIGERANT
RMMC	REMOTE MOUNT MINI CONTROLLER BY UNIT MANUFACTURER
SD	SMOKE DETECTORS IN SUPPLY AND RETURN WIRING TO SHUT UNIT DOWN
T	SPACE MOUNTED TEMPERATURE SENSOR FOR DDC OPERATION WITH OVERRIDE AS NOTED ON THE PLANS.
VIC	VIBRATION ISOLATION CURB.
PUMP SCHEDULE	
AB	ALL BRONZE
AI	ALL IRON
BF	BRONZE FITTED
BMCES	BASE MOUNTED CLOSED COUPLED END SUCTION
BMES	BASE MOUNTED END SUCTION
BMSC	BASE MOUNTED HORIZONTAL SPLIT CASE
BMSC	BASE MOUNTED VERTICAL SPLIT CASE
C	CONDENSER WATER
CH	CHILLED/HOT WATER
CW	CHILLED WATER
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
HW	HEATING HOT WATER
IL	IN-LINE

FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	EST. ESP (IN WG)	VOLTAGE	PHASE	MOTOR (HP)	NOTES
EF1	COOK	AGED120	900	0.75	120	1	0.33	CURB, DD, DM, GBD, SC
EF2	COOK	GC-146	75	0.25	120	1	0.06	DD, DM, GBD, RJ, SC
EF3	COOK	GC-146	75	0.25	120	1	0.06	DD, DM, GBD, RJ, SC
EF4	COOK	GC-146	75	0.25	120	1	0.06	DD, DM, GBD, RJ, SC
EF5	COOK	GC-166	150	0.25	120	1	0.06	DD, DM, GBD, RJ, SC
EF6	COOK	GC-166	150	0.25	120	1	0.06	DD, DM, GBD, RJ, SC

ELECTRIC WALL HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	HEATING ELEMENT (WATTS)	ELECTRICAL DATA				NOTES	
					VOLTAGE	PHASE	FLA	MCA		MOCP (A)
EVH1	BERKO	FRA4024F	100	3,000	208	1	15	18	20	DS, MB, T
EVH2	BERKO	FRA4024F	100	3,000	208	1	15	18	20	DS, MB, T

ELECTRIC CEILING HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	HEATING ELEMENT (WATTS)	ELECTRICAL DATA				NOTES	
					VOLTAGE	PHASE	FLA	MCA		MOCP (A)
ECH1	BERKO	OFF4004	100	3,000	208	1	14	18	20	CMF, DS, T
ECH2	BERKO	OFF4004	100	3,000	208	1	14	18	20	CMF, DS, T

ELECTRIC BASEBOARD HEATER

PLAN MARK	MANUFACTURER	MODEL	LENGTH (IN)	HEATING ELEMENT (WATTS)	ELECTRICAL DATA				NOTES	
					VOLTAGE	PHASE	FLA	MCA		MOCP (A)
EBH1	BERKO	BKO2508W	72	2,000	120	1	10	12	15	DS, T
EBH2	BERKO	BKO2508W	72	2,000	120	1	10	12	15	DS, T

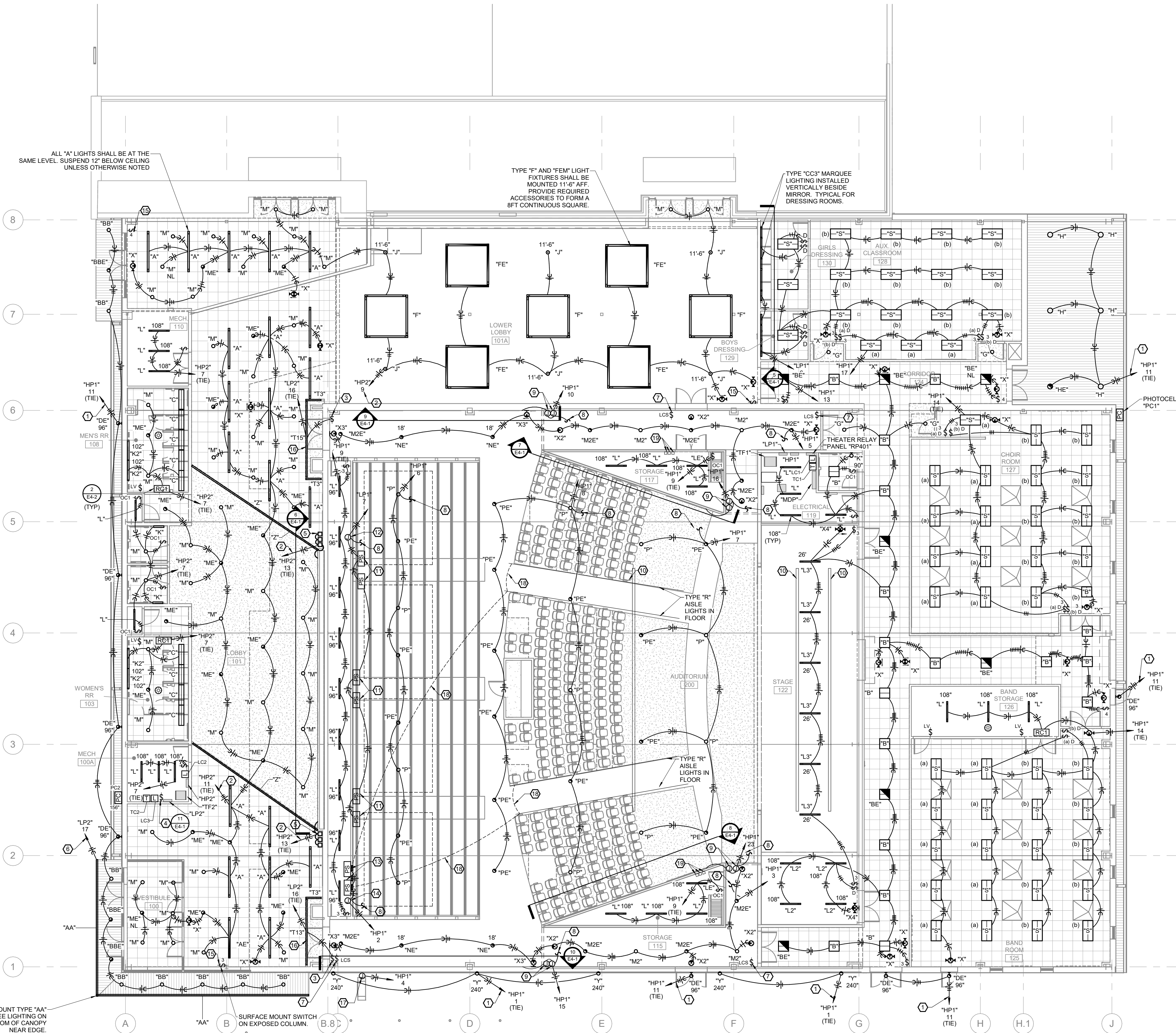
PACKAGED ROOFTOP UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	EST. ESP (IN WG)	OUTDOOR AIR FLOW				COOLING CAPACITY				GAS HEATING			ELECTRICAL DATA				NOTES		
					MAX (CFM)	MIN (CFM)	E.A.T. DB (°F)	E.A.T. WB (°F)	MIN. SCC (MBH)	MIN. TCC (MBH)	MIN. EER	AMBIENT TEMPERATURE (°F)	GAS LOAD (BTU/H)	OUTPUT (BTU/H)	EFFICIENCY (%)	VOLTAGE	PHASE	FLA	MCA		MOCP (A)	MIN. SCOR (A)
RTU1	TRANE	SFHMF304	8,750	1	2,400	485	80	65	210	339	18.4	105	500,000	405,000	81	480	3	65	71	90	5000	BRD, CC, CCH, CO2, CR, CURB, DS, ECON, F, H, LC, MH, MHGR, PE, R410A, RMMC, SD, T, VIC, VSC
RTU2	TRANE	YCH330	8,750	1	2,200	250	80	65	229	321	11.4	105	600,000	486,000	81	480	3	70	74	90	5000	BRD, CC, CCH, CR, CO2, CURB, DS, ECON, F, H, LC, MH, PE, R410A, RMMC, SD, T, VIC
RTU3	TRANE	YHJ102	2,625	1	575	200	80	65	69	95	12.1	105	200,000	162,000	81	480	3	22	28	35	5000	2SH, BRD, CC, CCH, CR, CO2, CURB, DS, ECON, F, H, LC, MHGR, PE, R410A, SD, T
RTU4	TRANE	YHJ102	2,625	1	615	270	80	65	73	95	12.1	105	200,000	162,000	81	480	3	22	28	35	5000	2SH, BRD, CC, CCH, CR, CO2, CURB, DS, ECON, F, H, LC, MHGR, PE, R410A, SD, T
RTU5	TRANE	YHJ102	2,625	1	635	290	80	65	73	95	12.1	105	200,000	162,000	81	480	3	22	28	35	5000	2SH, BRD, CC, CCH, CR, CO2, CURB, DS, ECON, F, H, LC, MHGR, PE, R410A, SD, T
RTU6	TRANE	YHJ102	2,625	1	490	140	80	65	73	95	12.1	105	200,000	162,000	81	480	3	22	28	35	5000	2SH, BRD, CC, CCH, CR, CO2, CURB, DS, ECON, F, H, LC, MHGR, PE, R410A, SD, T
RTU7	TRANE	YHJ180	5,250	1	845	180	80	65	141	173	11.9	105	400,000	324,000	81	480	3	31	45	50	5000	2SH, BRD, CC, CCH, CR, CO2, CURB, DS, ECON, F, H, LC, MHGR, PE, R410A, SD, T
RTU8	TRANE	YHJ120	3,000	1	830	480	80	65	85	111	11.4	105	240,000	194,000	81	480	3	25	32	40	5000	2SH, BRD, CC, CCH, CR, CO2, CURB, DS, ECON, F, H, LC, MHGR, PE, R410A, SD, T

GRILLE, REGISTER AND DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	APPLICATION	FINISH	FRAME TYPE	VOLUME DAMPER	MAXIMUM NC	MINIMUM THROW (FT)	MAXIMUM THROW (FT)	MAXIMUM AP (IN WG)	NOTES
EA	TITUS	PAR-24 x 24	EXHAUST	BY ARCH	GRID	No	30	0	0	0.10	24x24 SQUARE PERFORATED FACE WITH ROUND DUCT CONNECTION
RA	TITUS	PAR-24 x 24	RETURN	BY ARCH	GRID	No	30	0	0	0.10	24x24 SQUARE PERFORATED FACE WITH SQUARE DUCT CONNECTION
RB	TITUS	350-RL	RETURN	BY ARCH	SURFACE	No	30	0	0	0.10	WALL GRILLE - DOUBLE DEFLECTION - ALUMINUM
SA	TITUS	TDCA-24 x 24	SUPPLY	BY ARCH	GRID	Yes	30	7	17	0.10	24x24 SQUARE LOUVER FACE WITH ROUND DUCT CONNECTION
SB	TITUS	TDCA-12 x 12	SUPPLY	BY ARCH	SURFACE	Yes	30	7	17	0.10	12x12 SQUARE LOUVER FACE WITH ROUND DUCT CONNECTION
SC	TITUS	TDCA-24 x 24	SUPPLY	BY ARCH	GYP	Yes	30	7	17	0.10	24x24 SQUARE LOUVER FACE WITH ROUND DUCT CONNECTION
SD	TITUS	300-FL	SUPPLY	BY ARCH	SURFACE	No	30	7	17	0.10	WALL GRILLE - DOUBLE DEFLECTION - ALUMINUM
SE	TITUS	S300-FL	SUPPLY	BY ARCH	DUCT	No	30	7	17	0.10	DUCT GRILLE - DOUBLE DEFLECTION - ALUMINUM
SF	TITUS	FL-10-2CRB-F	SUPPLY	BY ARCH	DUCT	No	25	12	30	0.10	48" CONTINUOUS FLOWBAR LINEAR SLOT DIFFUSER W/ (2) 1" SLOTS SET TO JET FLOW (0 DEGREE DEFLECTION) & INSULATED PLENUM BOX
SG	TITUS	300-FL	SUPPLY	BY ARCH	DUCT	No	30	7	17	0.10	DUCT GRILLE - DOUBLE DEFLECTION - ALUMINUM

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1 LIGHTING PLAN
 E1-1 SCALE: 3/32" = 1'-0" NORTH

- GENERAL NOTES:**
- Y. WIRE SIZE INDICATED BY BRANCH CIRCUIT AT HOMERUN SHALL BE CARRIED THROUGHOUT THE CIRCUIT TO FINAL CONNECTION AT EQUIPMENT. FINAL EXTENSION OF CIRCUIT TO EQUIPMENT MAY NOT BE SHOWN FOR CLARITY BUT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR FINAL CONNECTION.
 - Z. REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITY OF ALL MECHANICAL EQUIPMENT AND FIRE/SMOKE AND/OR SMOKE DAMPERS. LOCATIONS AND QUANTITY SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE AND MAY NOT REFLECT FINAL POSITION OR QUANTITY. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT. WHERE EQUIPMENT IS SHOWN ON THE MECHANICAL PLANS, BUT NOT SHOWN ON THE ELECTRICAL PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE EQUIPMENT BASED ON EQUIPMENT REQUIREMENTS AND INCLUDE ALL COSTS IN THE BASE BID. LOCATION SHOWN OF ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT IS SCHEMATIC AND MAY NOT REFLECT ACTUAL CONNECTION POINTS. ROUGH-IN AND CONNECTION TO EQUIPMENT SHALL BE PER THE EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE. PROVIDE STRUCTURAL SUPPORTS AS REQUIRED FOR MOUNTING OF DISCONNECTING MEANS. VERIFY ALL ROUGH-IN REQUIREMENTS WITH THE MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN.
 - AA. SUPPORTS, CONDUIT, BOXES, ETC. INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE PAINTED TO MATCH ADJACENT FINISHES.
 - BB. EXIT LIGHTS SHALL BE MOUNTED AT 6" ABOVE DOORS OR SUSPENDED OR MOUNTED AT MAX HEIGHT OF 10' AFF IN ROOMS WITH NO OR HIGHER CEILINGS.
 - CC. THE LAY-IN CEILING GRID AND SOFFIT LOCATIONS ARE SHOWN ON THESE PLANS FOR SCHEMATIC REFERENCE ONLY. REFER TO THE ARCHITECTURAL AND INTERIOR PLANS FOR ACTUAL REFLECTED CEILING PLANS. COORDINATE LIGHT FIXTURE MOUNTING REQUIREMENTS BASED ON ACTUAL CEILING FINISH TYPES AND REVERSE LIGHT FIXTURE MODEL NUMBERS ACCORDING TO THE LIGHT FIXTURES SCHEDULE.
 - DD. REFER TO THE ARCHITECTURAL AND INTERIOR PLANS FOR THE MOUNTING/SUSPENSION HEIGHTS OF ALL WALL-MOUNTED AND PENDANT LIGHT FIXTURES. MOUNTING HEIGHTS, IF NOTED ON THESE PLANS, ARE APPROXIMATE. ALL SUSPENDED FIXTURES SHALL BE HUNG WITH AIRCRAFT CABLE UNLESS NOTED OTHERWISE.
 - EE. CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SUPPORTS FOR THE CORRIDOR LIGHT FIXTURES. COORDINATE REQUIREMENTS WITH THE LIGHTING FIXTURE MANUFACTURER PRIOR TO ANY ROUGH-IN. COORDINATE ADDITIONAL FRAMING REQUIREMENTS WITH GC SO THAT FIXTURES ARE SUPPORTED BY STRUCTURAL MEMBERS - IN NO CASE SHALL ANY LIGHT FIXTURES BE SUSPENDED FROM MECHANICAL EQUIPMENT, DUCTWORK OR PIPING, OR THEIR ASSOCIATED SUPPORTS.
 - FF. SUSPEND FIXTURES WITH AIRCRAFT CABLE AND ADJUSTABLE CLIPS BY GRIPPLE OR EQUAL UNLESS NOTED OTHERWISE.
 - GG. FLEXIBLE CONDUIT OR MC CABLE IS NOT ACCEPTABLE UNLESS NOT VISIBLE AND INSTALLED ABOVE CEILING, SOFFIT OR IN WALLS.
 - HH. AT ALL AREAS UNLESS WITHIN ENCLOSED SPACE WITH ALL CONDUIT IN JUNCTION BOXES, HANGERS AND SUPPORTS SHALL BE PAINTED. COORDINATE WITH GC AND REFER TO THE ARCHITECTURAL SPECIFICATIONS FOR PAINT REQUIREMENTS. ROUTE CONDUIT AND WIRING IN MANNER TO MINIMIZE EXPOSURE.

- PLAN HEX NOTES:**
1. PULL SWITCHLEG THRU CONTACTOR 'LC1'.
 2. PULL SWITCHLEG THRU CONTACTOR 'LC2'.
 3. PROVIDE ENGRAVED COVERPLATE LABELED 'MARQUEE LIGHTING'.
 4. PROVIDE ENGRAVED COVERPLATE LABELED 'EXTERIOR MARQUEE LIGHTING OVERRIDE'.
 5. REMOTE DRIVERS FOR TYPE 'Z' FEATURE LIGHTS SHALL BE LOCATED ABOVE LAY-IN CEILING. EXTEND WIRING FROM DRIVERS TO FEATURE LIGHTS RECESSED INTO WALL. REFER TO ELEVATION FOR LAYOUT OF FIXTURES IN WALL.
 6. PULL SWITCHLEG THRU CONTACTOR 'LC3'.
 7. LIGHTING CONTROL STATION SHALL BE FURNISHED BY THEATRICAL LIGHTING VENDOR AND INSTALLED BY E.C. PROVIDE 1" CONDUIT FROM CONTROL STATION TO LIGHTING CONTROL SYSTEM AT CONTROL BOOTH. REFER TO THEATRICAL LIGHTING VENDOR DRAWINGS.
 8. EXTEND 0-10V LIGHTING CONTROL CABLE TO LIGHTING CONTROL SYSTEM AT CONTROL BOOTH. ROUTE CABLE IN 1" CONDUIT.
 9. REMOTE DRIVERS FOR TYPE 'Z' FEATURE LIGHTS SHALL BE LOCATED ABOVE LAY-IN CEILING. EXTEND WIRING FROM DRIVERS TO FEATURE LIGHTS RECESSED INTO WALL. REFER TO ELEVATION FOR LAYOUT OF FIXTURES IN WALL. PROVIDE DISCONNECTING MEANS FOR EACH DRIVER.
 10. STAGE LIGHTING LIGHT BAR. REFER TO THEATRICAL LIGHTING VENDOR DRAWINGS.
 11. POWER SUPPLY FOR INTEGRATED BLEACHER AISLE LIGHTING. PROVIDE DISCONNECTING MEANS FOR EACH POWER SUPPLY.
 12. PROVIDE ON-OFF RELAY TO OPERATE BLEACHER AISLE LIGHTS. COORDINATE EXACT REQUIREMENTS WITH BLEACHER VENDOR AND THEATRICAL LIGHTING VENDOR.
 13. POWER SUPPLY FOR TYPE 'R' AISLE LIGHTS IN AUDITORIUM FLOOR. PROVIDE DISCONNECTING MEANS FOR EACH POWER SUPPLY.
 14. PROVIDE ON-OFF RELAY TO OPERATE TYPE 'R' AISLE LIGHTS. COORDINATE EXACT REQUIREMENTS WITH THEATRICAL LIGHTING VENDOR.
 15. SWITCH SHALL OPERATE CONTACTOR 'LC2'.
 16. MOUNT TYPE 'M' MARQUEE LIGHTING ON BOTTOM OF SOFFIT NEAR EDGE.
 17. POWER FOR EXTERIOR SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT VENDOR.
 18. LOW VOLTAGE WIRING ROUTED BELOW SLAB TO TYPE 'R' AISLE LIGHTS.
 19. REMOTE TEST SWITCHES FOR EMERGENCY LIGHTS IN AUDITORIUM.

THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.

FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO THE CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS, AND APPLIANCES OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. WORK SHALL INCLUDE REQUIRED REPLACEMENT, ADJUSTMENT OF SYSTEMS AND CONTROL EQUIPMENT AND ALL REQUIRED PROGRAMMING INSTALLED. PROVIDE FOR ALL WORK INDICATED ON DRAWINGS OR AS REASONABLY IMPLIED.

PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF FIXTURES, EQUIPMENT, ETC AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION AS NOTED ON DRAWINGS OR IN NOTES.

ACCESS PANELS SHALL BE PROVIDED WHEREVER NECESSARY TO PROVIDE ACCESS TO VALVES, JUNCTION BOXES, ETC., LOCATED IN CONCEALED SPACES.

ALL EQUIPMENT, FIXTURES, MATERIALS, ETC SHALL BE INSTALLED IN NEAT, PROFESSIONAL MANNER IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

THE CONTRACTOR SHALL CONTACT THE OWNER AND COORDINATE ALL OUTAGES 5 DAYS PRIOR TO ANY SHUT-OFF OF SERVICES.

PROVIDE ALL FIRE RATED MATERIAL FOR PATCH AND REPAIR FOR ALL FIRE RATED ASSEMBLIES. ALL OPENINGS SHALL BE SEALED AND CLOSED IN APPROVED MANNER. PROVIDE SLEEVE WHERE NEEDED DUE TO SCOPE OF WORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING.

PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

- a. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL ROOM INTERIOR ELEVATIONS. COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
- b. COORDINATE ALL WIRING DEVICE LOCATIONS SHOWN AT MILLWORK LOCATIONS WITH THE MILLWORK CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN OR INSTALLATION. ALL WIRING DEVICES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE CONCEALED.

PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED.

ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT-PROOF PULL-TAP LABELED AT EACH END. ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS WHERE TERMINATED OPEN-ENDED.

SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.

EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE SHALL REVIEW THE BID DRAWINGS AS A WHOLE, INCLUDING ALL OTHER TRADES DRAWINGS AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL BID DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES: STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE BID DOCUMENTS AND SHALL BE REVIEWED WITH THE SPECIFIC MEP, STRUCTURAL, ARCHITECTURAL, AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.

ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT. WHERE EQUIPMENT IS SHOWN ON THE MECHANICAL PLANS, BUT NOT SHOWN ON THE ELECTRICAL PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE EQUIPMENT BASED ON EQUIPMENT REQUIREMENTS AND INCLUDE ALL COSTS IN THE BASE BID.

LOCATION SHOWN OF ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT IS SCHEMATIC AND MAY NOT REFLECT ACTUAL CONNECTION POINTS. ROUGH-IN AND CONNECTION TO EQUIPMENT SHALL BE PER THE EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE. PROVIDE STRUCTURAL SUPPORTS AS REQUIRED FOR MOUNTING OF DISCONNECTING MEANS. VERIFY ALL ROUGH-IN REQUIREMENTS WITH THE MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN.

PROVIDE FINAL CONNECTION TO ALL EQUIPMENT. INCLUDING ANY CORD AND PLUG SETS FOR EQUIPMENT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER, AND VERIFY ALL ROUGH-IN LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH-IN.

THERMOSTATS AND ALL ASSOCIATED LOW VOLTAGE CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF THE THERMOSTATS AND ALL CONTROL WIRING. REFER TO MECHANICAL PLANS FOR THERMOSTAT LOCATIONS.

- a. PROVIDE BACK BOX AND CONDUIT TO ACCESSIBLE CEILING AS REQUIRED FOR THE DIVISION 23 WALL MOUNTED CONTROL DEVICES FOR BUILDING AUTOMATION SYSTEM DEVICES. COORDINATE EXACT LOCATIONS AND OTHER REQUIREMENTS WITH MECHANICAL DRAWINGS AND THE TEMPERATURE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. THERMOSTATS, TEMPERATURE SENSORS, STATIC PRESSURE SENSORS, HUMIDISTATS, ETC. SHALL BE INSTALLED AT THE SAME ELEVATION AS THE LIGHT SWITCHES UNLESS REQUIRED OTHERWISE.

PROVIDE UNSWITCHED/UNCONTROLLED HOT FROM NEAREST CIRCUIT TO EXIT SIGNS AND EMERGENCY FIXTURES WITH INTEGRAL BATTERIES.

PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS (120V OR HIGHER).

REFER TO SPECIAL SYSTEMS SHEETS FOR APPROXIMATE LOCATIONS OF ALL DATA, TELEPHONE, TV, NURSE CALL, ETC. DEVICES. COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT WITH SPECIAL SYSTEMS DEVICES.

PROVIDE ALL RACEWAYS, SLEEVES, BOXES, CABLE TRAY, ETC. AS INDICATED FOR THE OWNER PROVIDED DATA, PHONE, TV CABLING SYSTEM. COORDINATE EXACT REQUIREMENTS WITH OWNER AND OWNER CABLING CONTRACTOR.

COORDINATE EXACT ROUTE FOR ALL COMMUNICATIONS SYSTEM RACEWAYS AND PULL BOX LOCATIONS WITH THE OWNER AND CABLING CONTRACTOR.

REFER TO ARCHITECTURAL EQUIPMENT DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.

NEUTRALS SHALL NOT BE SHARED FOR ANY CIRCUIT, UNLESS SPECIFICALLY NOTED ON PLANS.



REVISION SCHEDULE

NO.	DESCRIPTION
1	ISSUED FOR PERMIT
2	ISSUED FOR PERMIT
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CASSVILLE HS: PERFORMING ARTS CENTER

PROJECT DESCRIPTION:
 PROJECT ENGINEER: JAL
 DRAWN BY: AGB
 CHECKED BY: JAL

PROJECT NUMBER:
 21-620

DATE:
 05-17-2023

SHEET NUMBER:
E1-1

1825 STATE HWY Y, CASSVILLE, MO 65625

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CIRCUIT BREAKER PANELBOARD SCHEDULE																			
PANEL NAME:		LOCATION: ELECTRICAL 119				VOLTAGE: 120/208V, 3Ph, 4W				MAIN TYPE: MCB				BUS RATING (A): 100 A					
"LP3"		FED BY: "TF3"				ENCLOSURE: NEMA 1				BUS RATING (A): 100 A				MCB RATING (A): 50 A					
		MOUNTING: SURFACE				MANUFACTURER: SQUARE D				PANEL TYPE: NQ				MIN. AIC RATING (A): 10000					
CKT	LOAD DESCRIPTION	C	W	G	CB	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT	
1	SOUND RACK	3/4"	#12	#12	20	1		1000	1000				1	20	#12	#12	3/4"	SOUND RACK	2
3	SOUND RACK	3/4"	#12	#12	20	1			1000	1000			1	20	#12	#12	3/4"	SOUND RACK	4
5	SOUND RACK	3/4"	#12	#12	20	1				1000	1000		1	20	#12	#12	3/4"	SOUND RACK	6
7	SPARE	--	--	--	20	1	--	0	0				1	20	--	--	--	SPARE	8
9	SPARE	--	--	--	20	1	--	0	0				1	20	--	--	--	SPARE	10
11	SPARE	--	--	--	20	1	--	0	0				1	20	--	--	--	SPARE	12
13	SPARE	--	--	--	20	1	--	0	0				1	20	--	--	--	SPARE	14
15	SPARE	--	--	--	20	1	--	0	0				1	20	--	--	--	SPARE	16
17	SPARE	--	--	--	20	1	--	0	0				1	20	--	--	--	SPARE	18
CONNECTED PHASE LOAD								2000 VA	2000 VA	2000 VA	CALCULATED PANEL AMPS:								
*PHASE DIVERSIFIED LOAD								2000 VA	2000 VA	2000 VA	21 A								
*PHASE DIVERSIFIED AMPS								17 A	17 A	17 A	(*DIVERSIFIED LOADS CALCULATED PER THE NATIONAL ELECTRIC CODE.)								
NOTES/ACCESSORIES:										PANEL TOTALS									
1. PROVIDE SPARE 20A, SINGLE-POLE BREAKERS IN ALL UNUSED SPACES.										TOTAL CONNECTED LOAD: 6000 VA									
										TOTAL DIVERSIFIED LOAD: 6000 VA									
										CONTROLLING LOAD: N/A									

CIRCUIT BREAKER PANELBOARD SCHEDULE																			
PANEL NAME:		LOCATION: ELECTRICAL 119				VOLTAGE: 120/208V, 3Ph, 4W				MAIN TYPE: MLO				BUS RATING (A): 225 A					
"RP401"		FED BY: "LP1"				ENCLOSURE: NEMA 1				BUS RATING (A): 225 A				MCB RATING (A): 225 A					
		MOUNTING: SURFACE				MANUFACTURER: ETC				PANEL TYPE: ECHO ERP				MIN. AIC RATING (A): 10000					
CKT	LOAD DESCRIPTION	C	W	G	CB	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT	
1	FRONT OF HOUSE LIGHTING	3/4"	#12	#12	20	1		480	480				1	20	#12	#12	3/4"	FRONT OF HOUSE LIGHTING	2
3	FRONT OF HOUSE LIGHTING	3/4"	#12	#12	20	1			480	480			1	20	#12	#12	3/4"	FRONT OF HOUSE LIGHTING	4
5	FRONT OF HOUSE LIGHTING	3/4"	#12	#12	20	1				480	480		1	20	#12	#12	3/4"	FRONT OF HOUSE LIGHTING	6
7	FRONT OF HOUSE LIGHTING	3/4"	#12	#12	20	1		480	480				1	20	#12	#12	3/4"	FRONT OF HOUSE LIGHTING	8
9	FRONT OF HOUSE LIGHTING	3/4"	#12	#12	20	1			480	480			1	20	#12	#12	3/4"	FRONT OF HOUSE LIGHTING	10
11	STAGE LIGHTING #1	3/4"	#12	#12	20	1				445	445		1	20	#12	#12	3/4"	STAGE LIGHTING #1	12
13	STAGE LIGHTING #1	3/4"	#12	#12	20	1		445	445				1	20	#12	#12	3/4"	STAGE LIGHTING #1	14
15	STAGE LIGHTING #1	3/4"	#12	#12	20	1			445	445			1	20	#12	#12	3/4"	STAGE LIGHTING #1	16
17	STAGE LIGHTING #2	3/4"	#12	#12	20	1				362	362		1	20	#12	#12	3/4"	STAGE LIGHTING #2	18
19	STAGE LIGHTING #2	3/4"	#12	#12	20	1		362	362				1	20	#12	#12	3/4"	STAGE LIGHTING #2	20
21	STAGE LIGHTING #2	3/4"	#12	#12	20	1			362	362			1	20	#12	#12	3/4"	STAGE LIGHTING #2	22
23	STAGE RIGHT FLOOR POCKET	3/4"	#12	#12	20	1				360	360		1	20	#12	#12	3/4"	STAGE LEFT FLOOR POCKET	24
25	CONTROL PROCESSOR	--	--	--	20	1	--	0	720				1	20	#12	#12	3/4"	CONTROL BOOTH RECEPTACLES	26
27	SPARE	--	--	--	20	1	--	0	0				1	20	--	--	--	SPARE	28
29	CONTROL BOOTH RECEPTACLES	3/4"	#10	#10	20	1				720	1000		1	20	#12	#12	3/4"	DMX SPLITTER	30
CONNECTED PHASE LOAD								4254 VA	3534 VA	5014 VA	CALCULATED PANEL AMPS:								
*PHASE DIVERSIFIED LOAD								5055 VA	4199 VA	5958 VA	63 A								
*PHASE DIVERSIFIED AMPS								43 A	35 A	51 A	(*DIVERSIFIED LOADS CALCULATED PER THE NATIONAL ELECTRIC CODE.)								
NOTES/ACCESSORIES:										PANEL TOTALS									
1. PANEL FURNISHED BY THEATRICAL LIGHTING VENDOR, INSTALLED BY E/C.										TOTAL CONNECTED LOAD: 12802 VA									
										TOTAL DIVERSIFIED LOAD: 15213 VA									
										CONTROLLING LOAD: N/A									

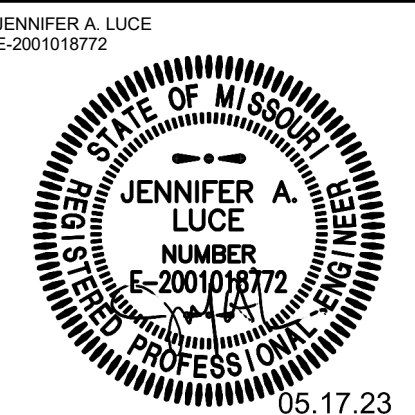
PLAN HEX NOTES:



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REVISION SCHEDULE

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL
 DRAWN BY: AGB
 CHECKED BY: JAL

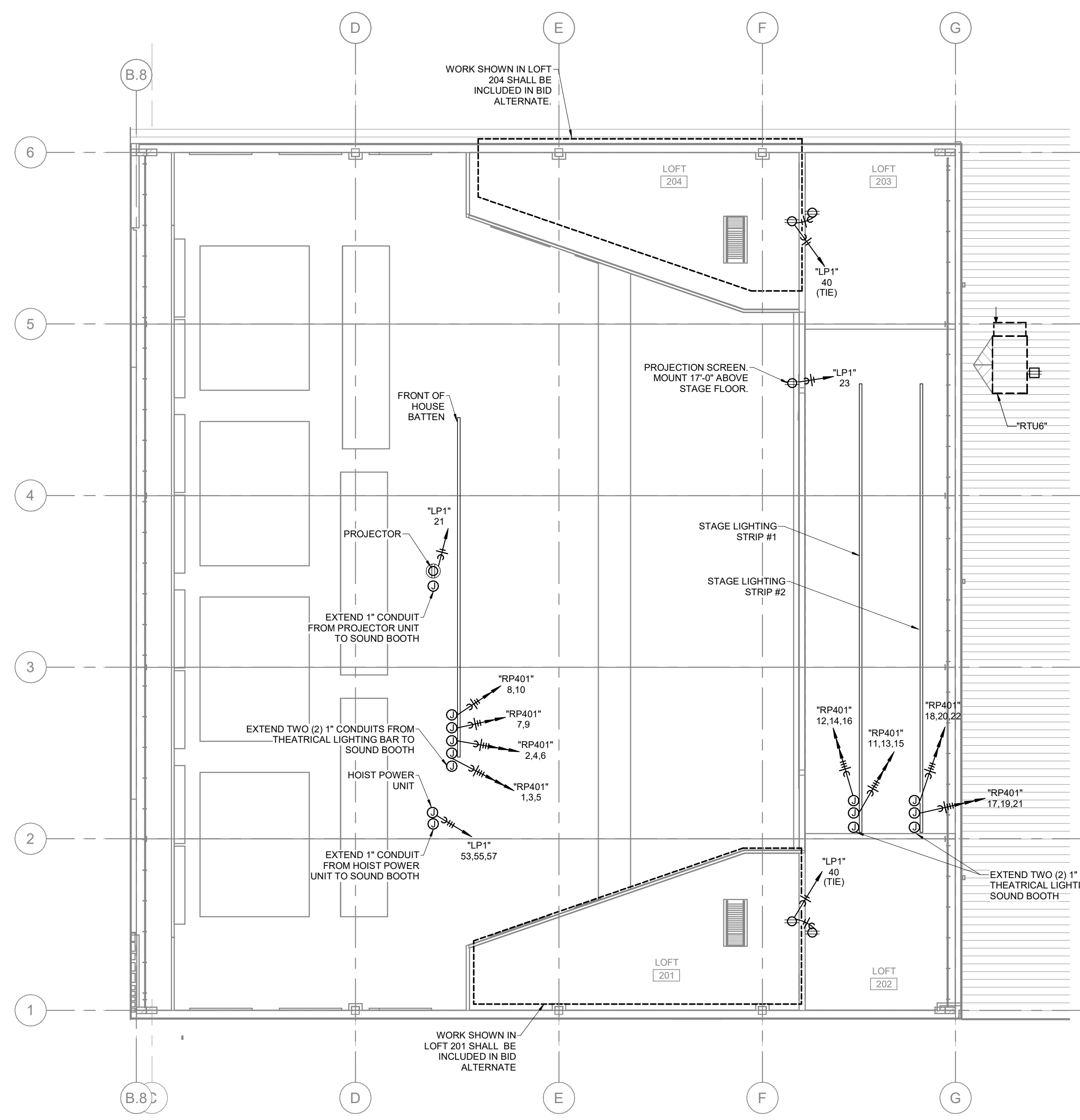
PROJECT NUMBER:
 21-620

DATE:
 05-17-2023

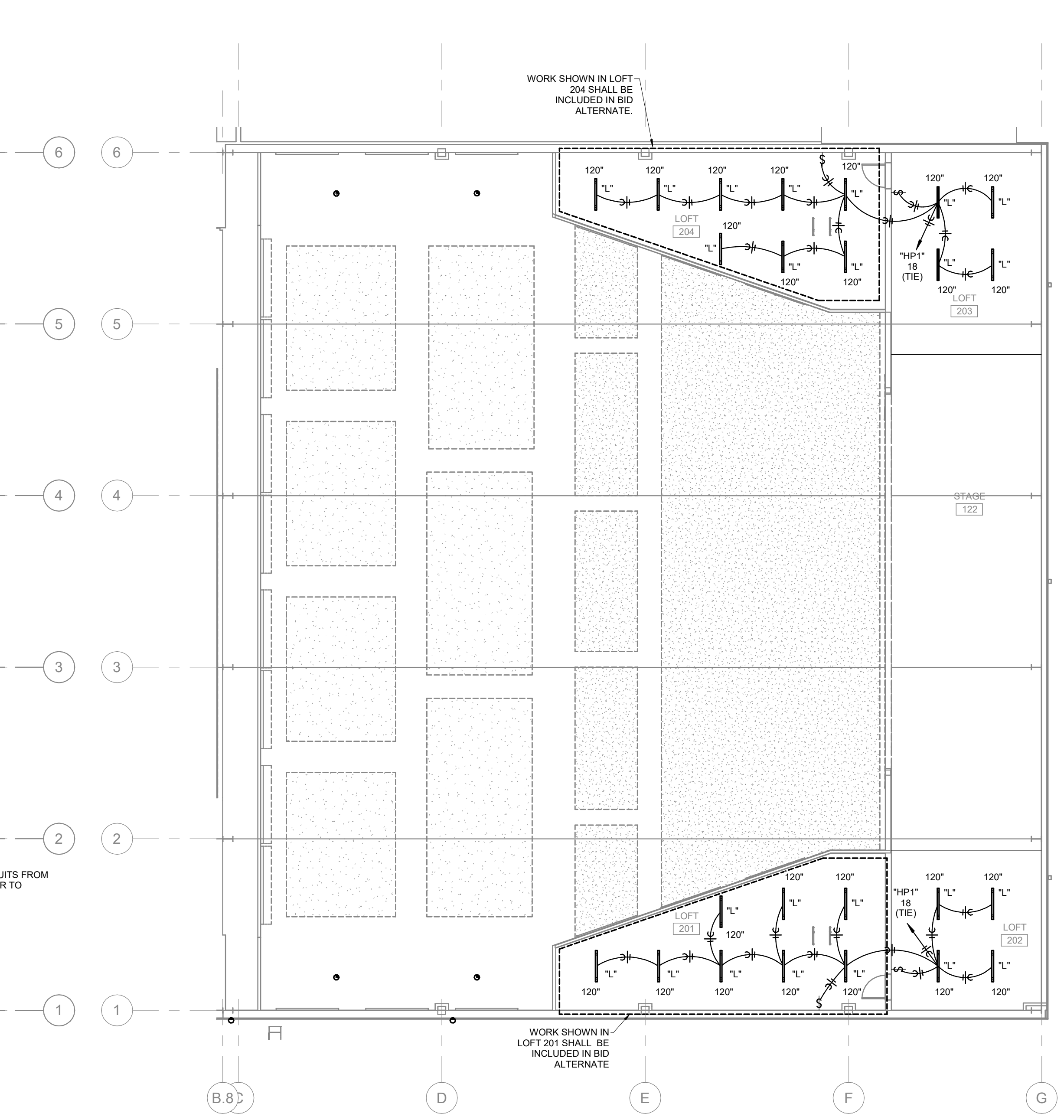
MEZZANINE ELECTRICAL PLANS

SHEET NUMBER:

E1-2



2 MEZZANINE POWER PLAN
 E1-2 SCALE: 3/32" = 1'-0" NORTH



1 MEZZANINE LIGHTING PLAN
 E1-2 SCALE: 3/32" = 1'-0" NORTH

5/17/2023 9:36:19 AM
 BIM 360://Cassville High School PAC
 #21-620/CASSVILLE PERFORMING ARTS CENTER

GENERAL NOTES:

REFER TO SHEET E1-1 FOR GENERAL NOTES.

PLAN HEX NOTES:

- POWER SUPPLY FOR RETRACTABLE BLEACHERS. MAKE ALL REQUIRED CONNECTIONS. COORDINATE WITH EQUIPMENT VENDOR.
- ADA DOOR OPENER. MAKE ALL REQUIRED CONNECTIONS. INTERFACE WITH ACCESS CONTROL SYSTEM SO THAT OPENER WON'T OPERATE UNLESS SYSTEM RELEASES DOOR ACCESS.
- POWER CONNECTION FOR OVERHEAD COILED DOOR. VERIFY ALL REQUIREMENTS WITH VENDOR IN FIELD. MAKE ALL REQUIRED CONNECTIONS.
- DOOR CONTROL STATION. VERIFY ALL REQUIREMENTS WITH VENDOR IN FIELD. MAKE ALL REQUIRED CONNECTIONS.
- SUSPEND BOTTOM OF TRANSFORMER "TF3" 10 FEET ABOVE FINISH FLOOR.
- PROVIDE RELAY. RELAY SHALL TURN FAN ON WHEN LIGHTS ARE TURNED ON AND SHALL TURN FAN OFF WHEN OCCUPANCY SENSOR TURNS LIGHTS OFF.



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JENNIFER A. LUCE
E-201018172



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REVISION SCHEDULE

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER

1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL
 DRAWN BY: AGB
 CHECKED BY: JAL

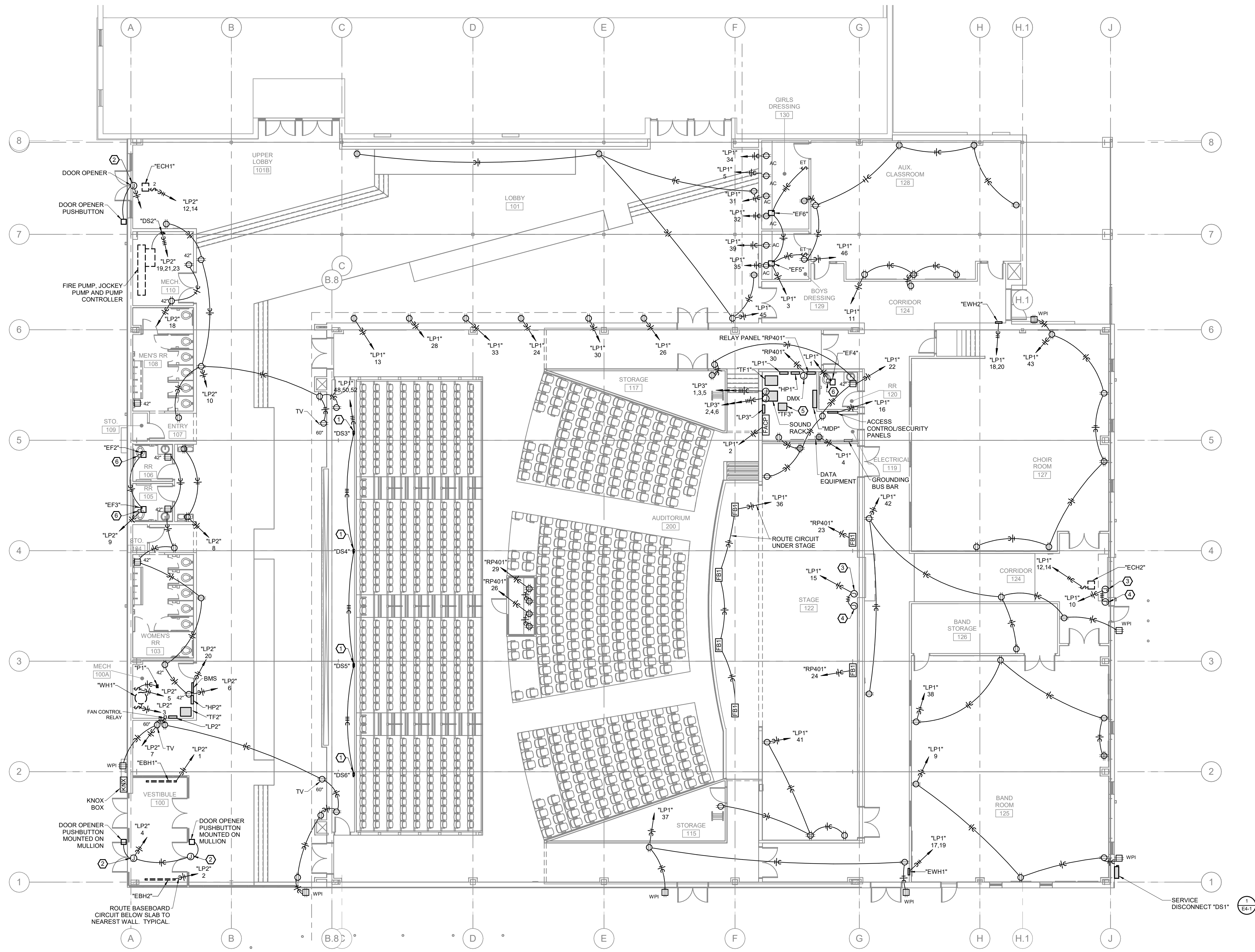
PROJECT NUMBER:
 21-620

DATE:
 05-17-2023

POWER PLAN

SHEET NUMBER:

E2-1



1 POWER PLAN
 E2-1 SCALE: 3/32" = 1'-0" NORTH

5/17/2023 10:19:56 AM
 B:\2021\Cassville High School PAC
 E2-1 (E2) PAC MEP.rvt

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 E-2001018772



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REVISION SCHEDULE

PROJECT DESCRIPTION:
CASSVILLE HS: PERFORMING ARTS CENTER
 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL
 DRAWN BY: AGB
 CHECKED BY: JAL

PROJECT NUMBER:
 21-620

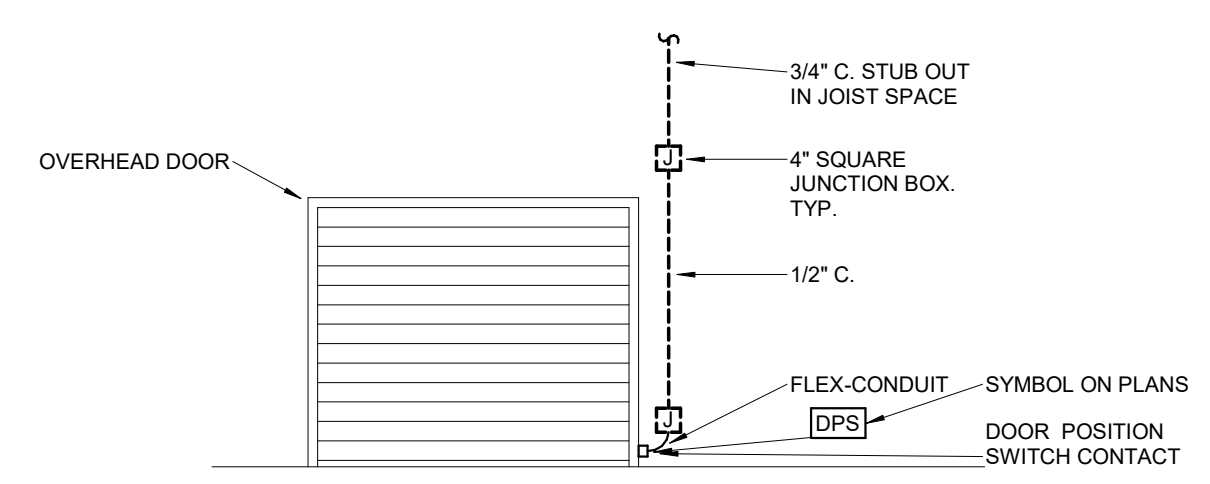
DATE:
 05-17-2023

SPECIAL SYSTEMS PLAN

SHEET NUMBER:

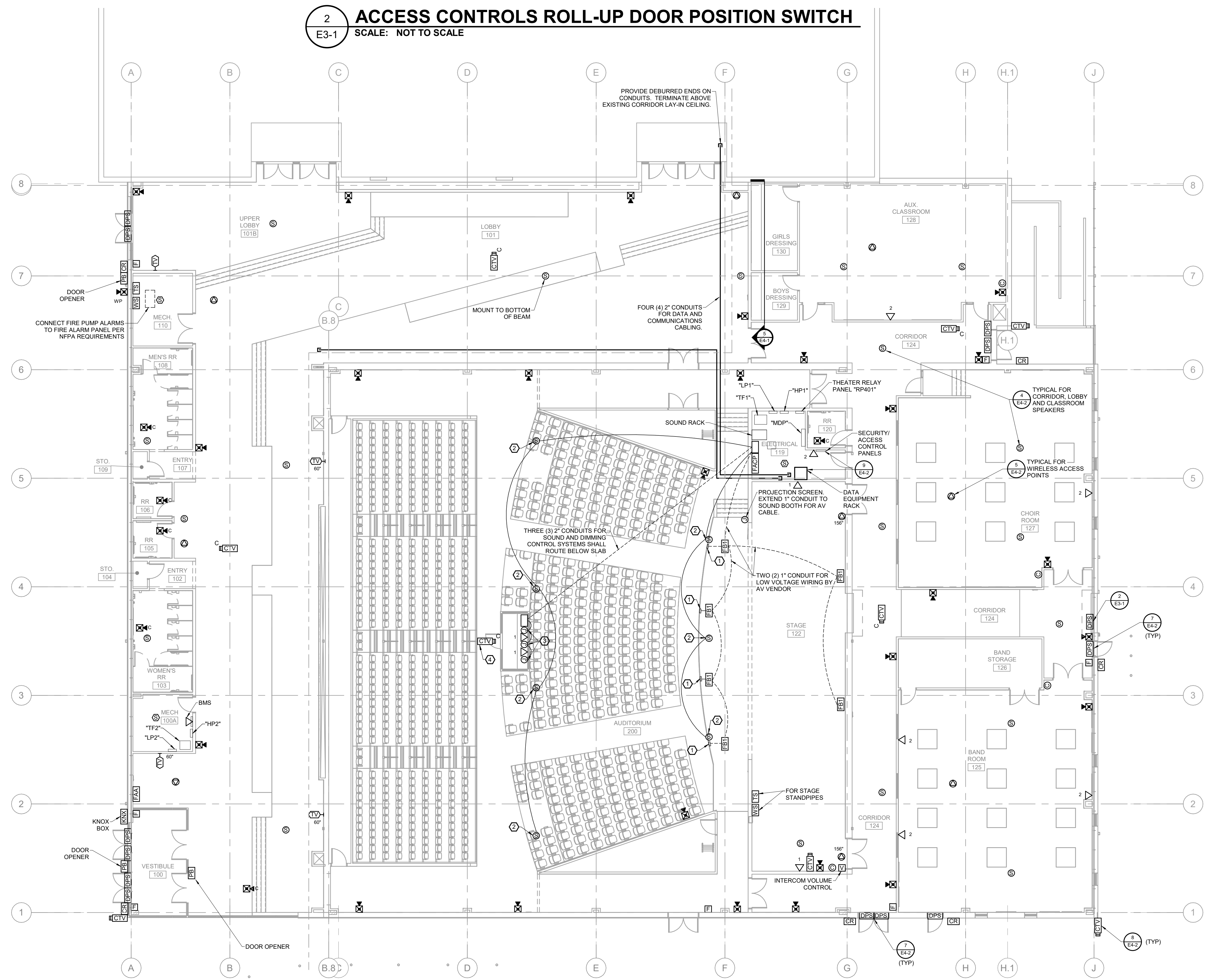
E3-1

- GENERAL NOTES:**
 REFER TO SHEET E1 FOR GENERAL NOTES.
- PLAN HEX NOTES:**
- 1 SPEAKER OUTLET SET INTO FRONT FACE OF STAGE. EXTEND 1" CONDUIT FROM OUTLET TO FLOOR BOX.
 - 2 OUTLET FOR AUDITORIUM SPEAKER SUSPENDED FROM CEILING CLOUD. PROVIDE 4x4 SQUARE BOX IN CLOUD CEILING FOR SPEAKER CABLE. EXTEND 1" CONDUIT AS INDICATED.
 - 3 4S BOX WITH 1-GANG COVER FOR LIGHTING AND SOUND CONTROL CABLES.
 - 4 MOUNT CAMERA AT CLOUD CEILING



NOTE:
 ALL JUNCTION BOXES AND CONDUIT SHALL BE RECESSED IN WALL

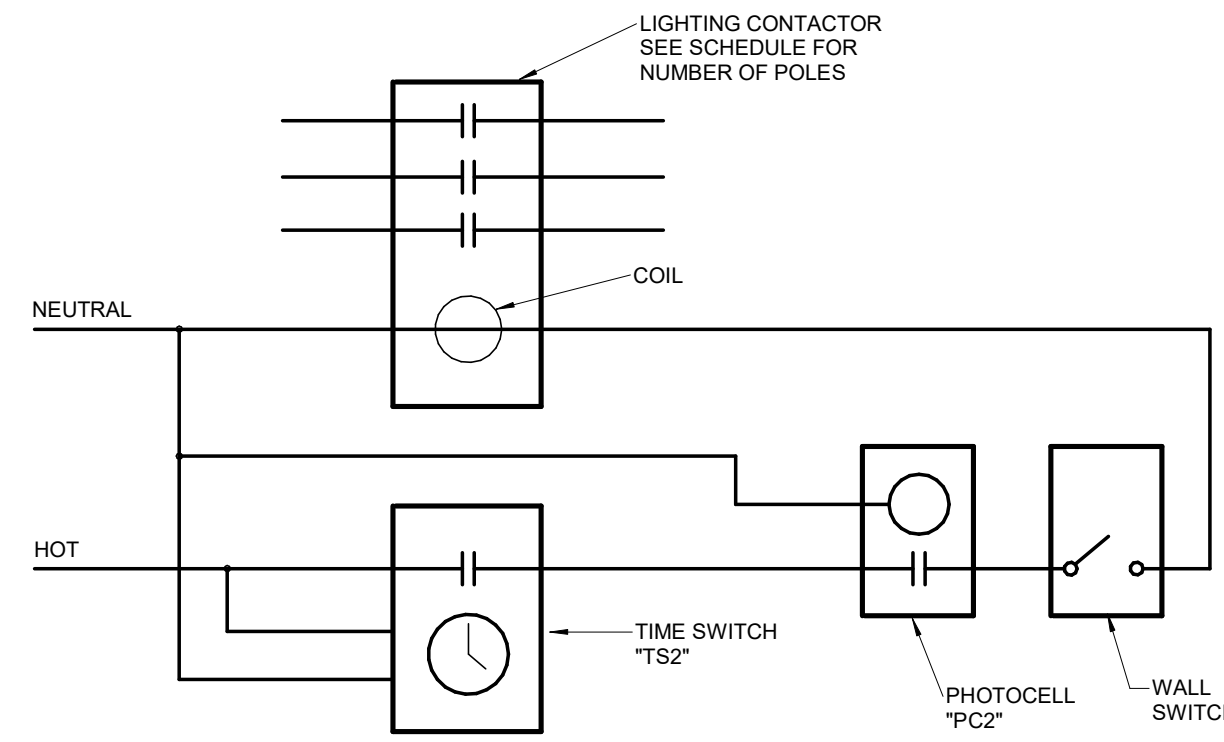
2 ACCESS CONTROLS ROLL-UP DOOR POSITION SWITCH
 E3-1 SCALE: NOT TO SCALE



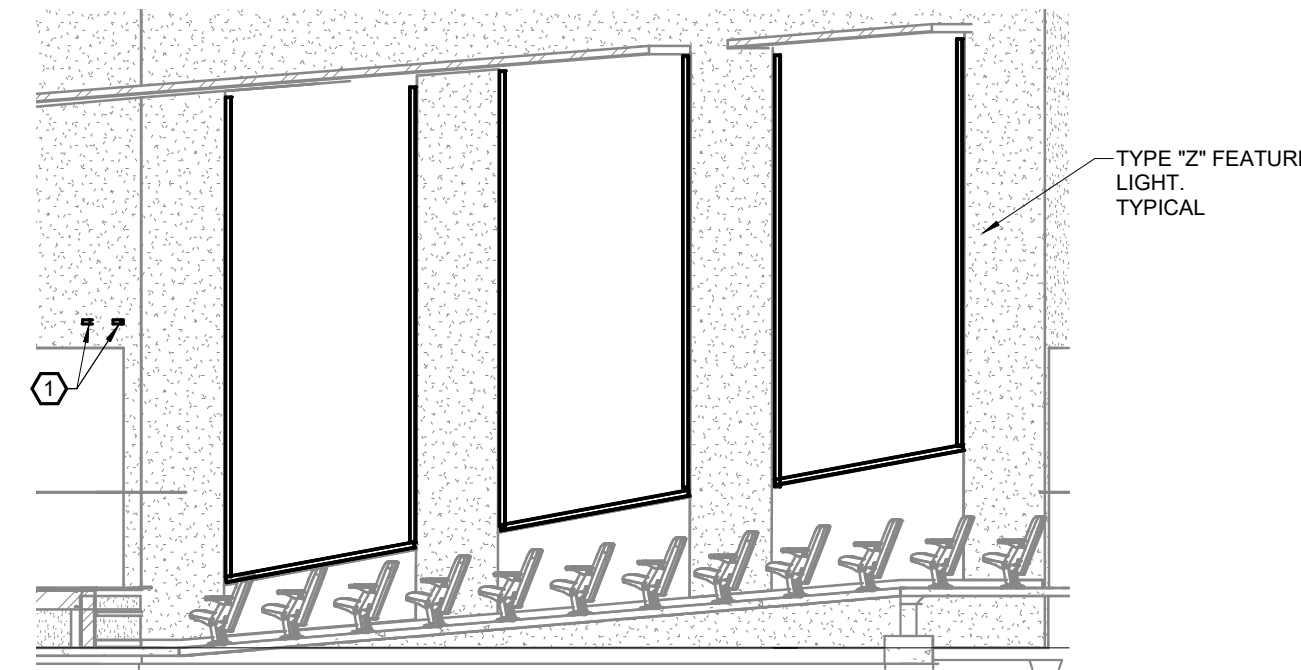
1 SPECIAL SYSTEMS PLAN
 E3-1 SCALE: 3/32" = 1'-0" NORTH

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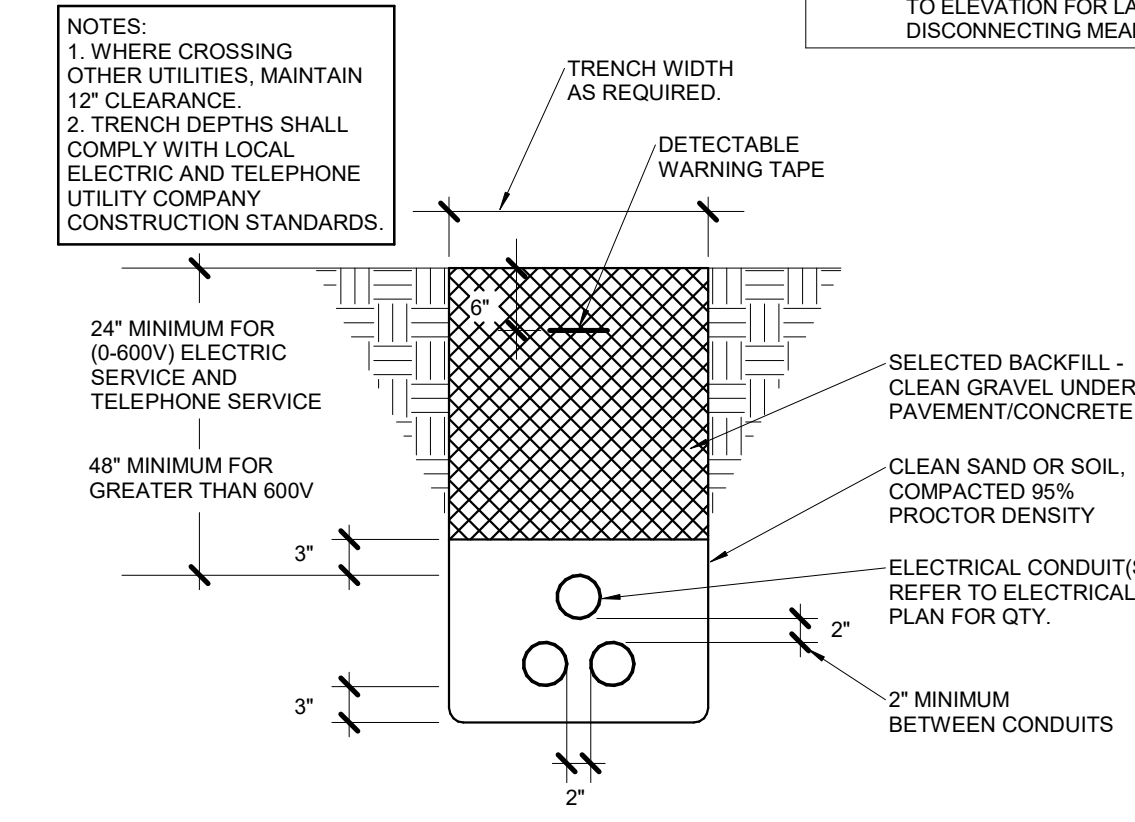
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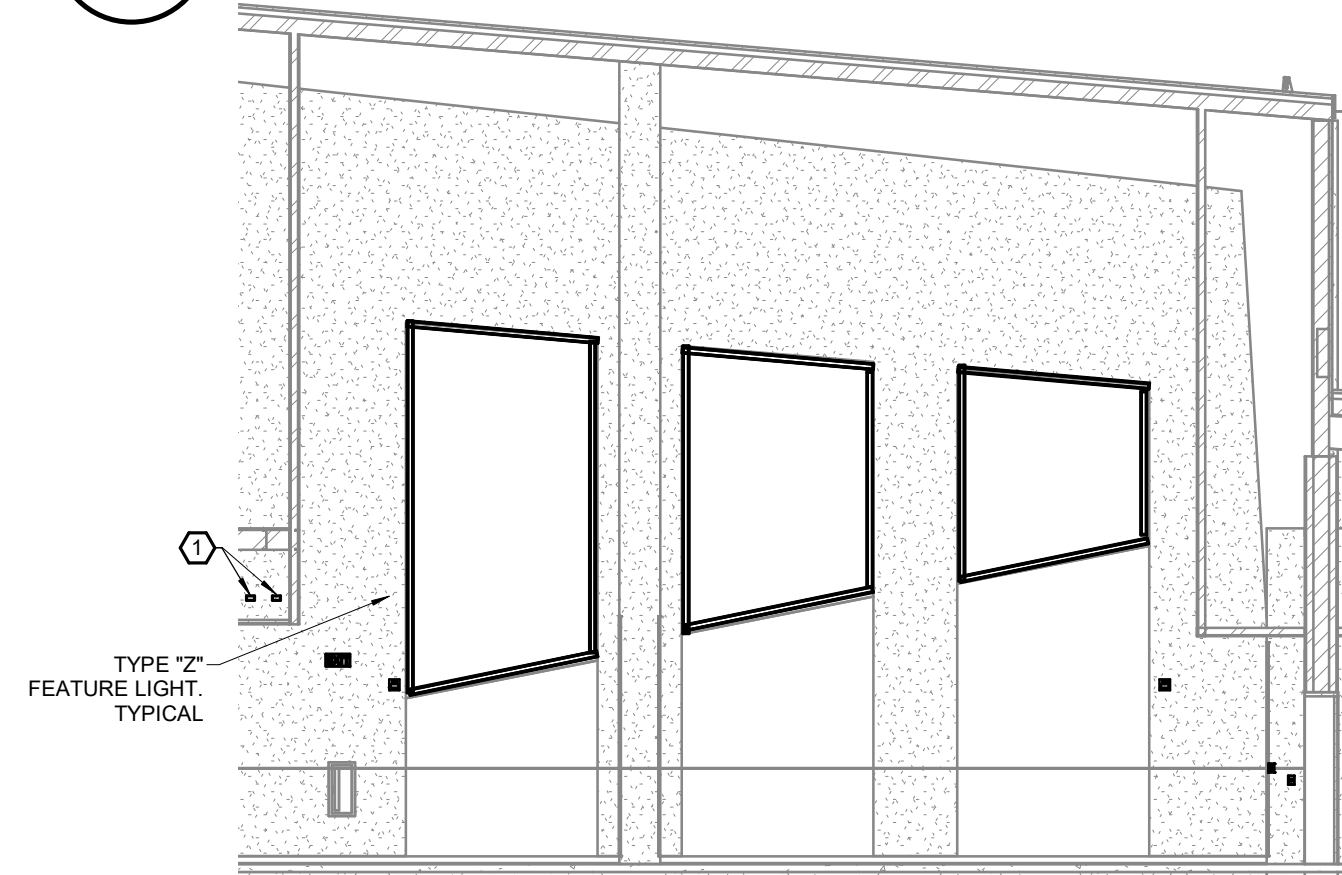
11 LIGHTING CONTROL DETAIL
E4-1 SCALE: NOT TO SCALE



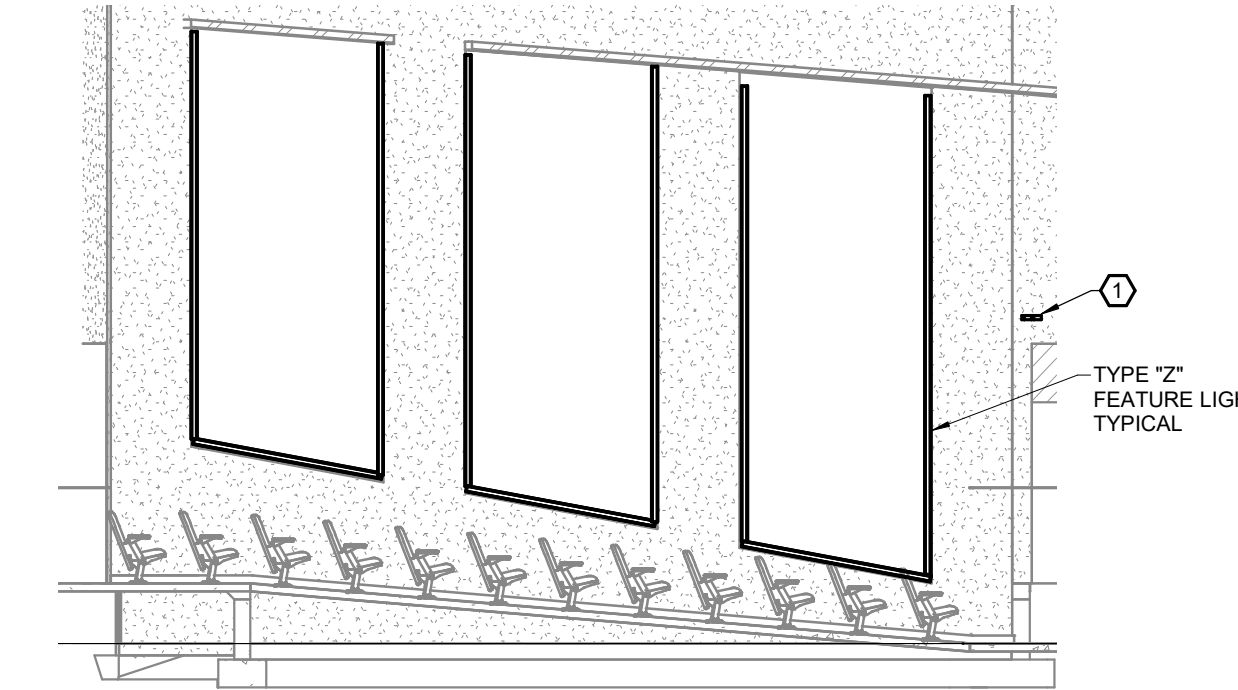
8 AUDITORIUM SOUTH ELEVATION
E4-1 SCALE: 1/8" = 1'-0"



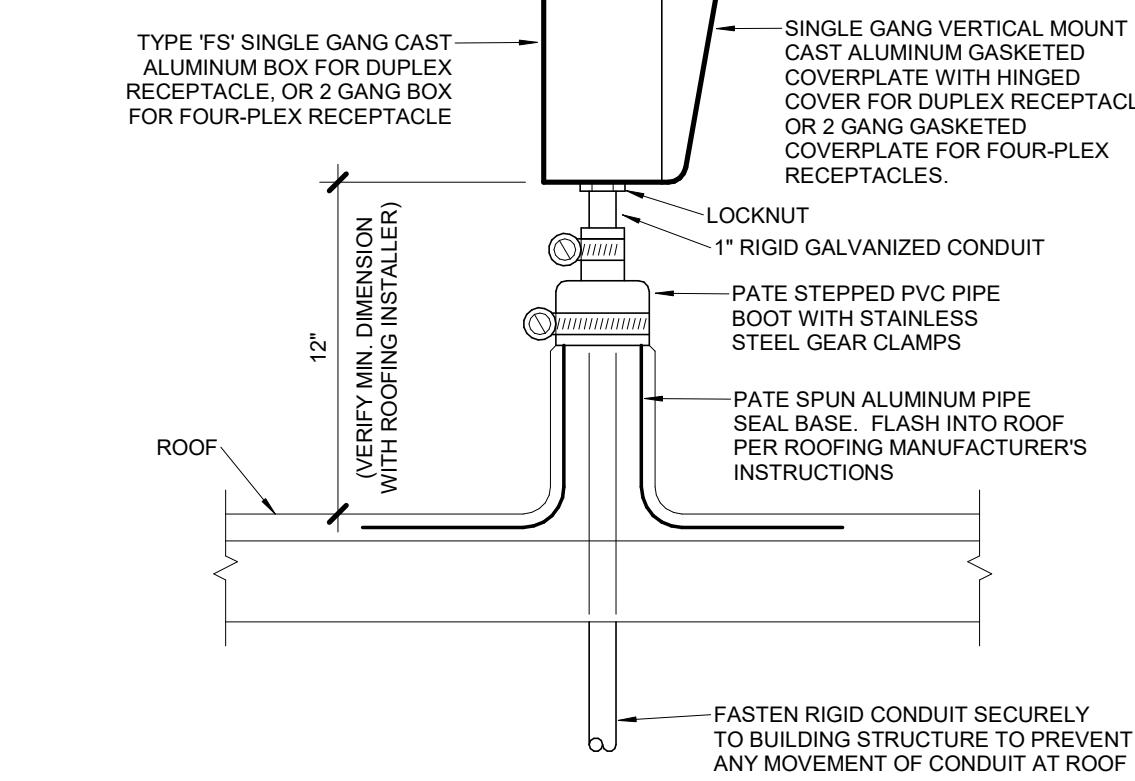
4 UNDERGROUND UTILITY ELECTRICAL CONDUITS
E4-1 SCALE: NOT TO SCALE



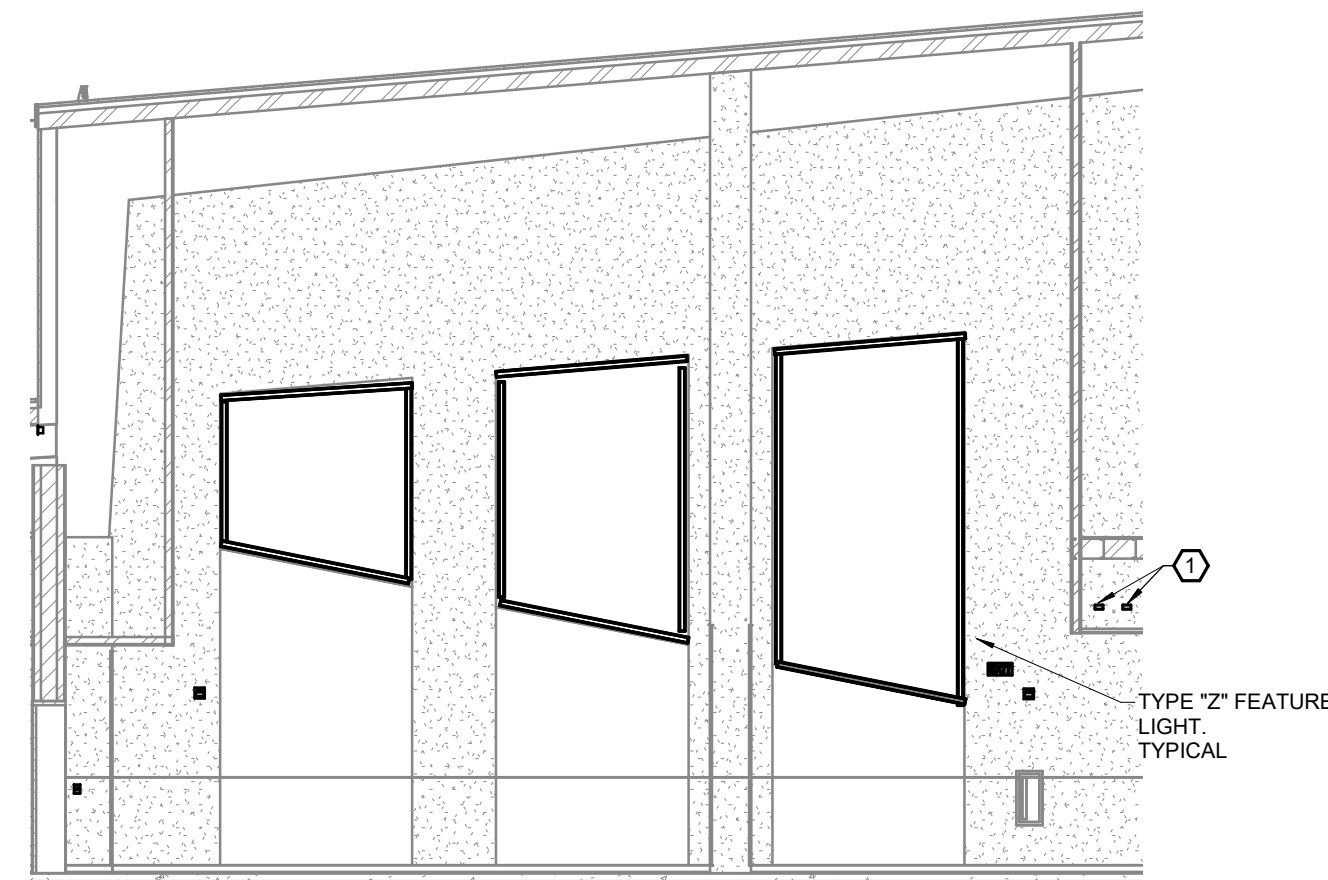
10 CORRIDOR SOUTH ELEVATION
E4-1 SCALE: 1/8" = 1'-0"



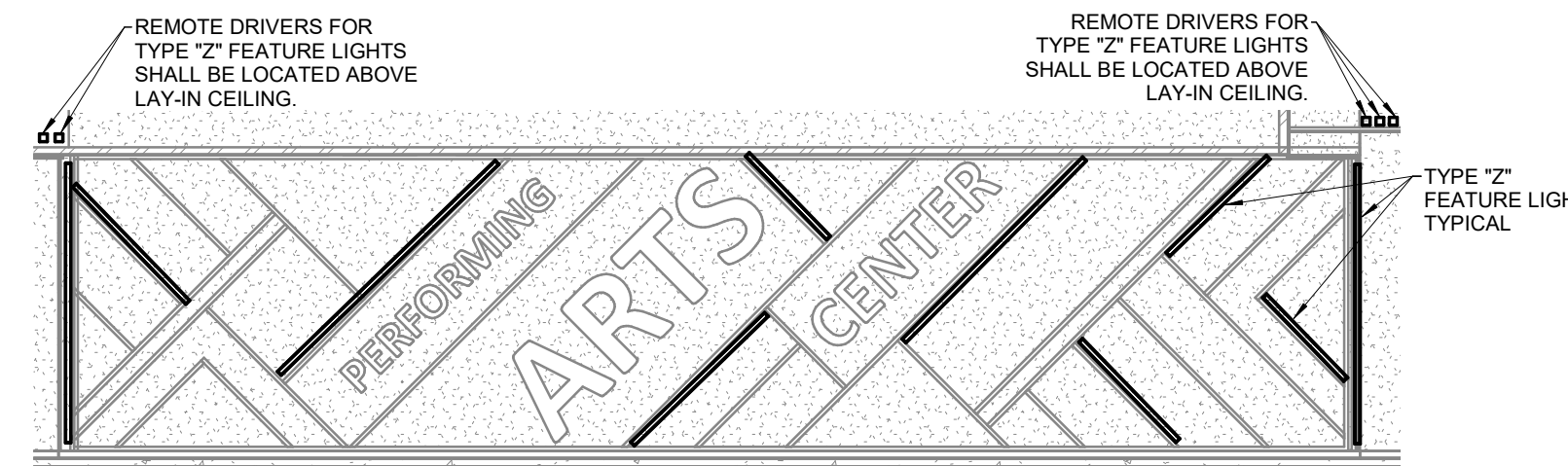
7 AUDITORIUM NORTH ELEVATION
E4-1 SCALE: 1/8" = 1'-0"



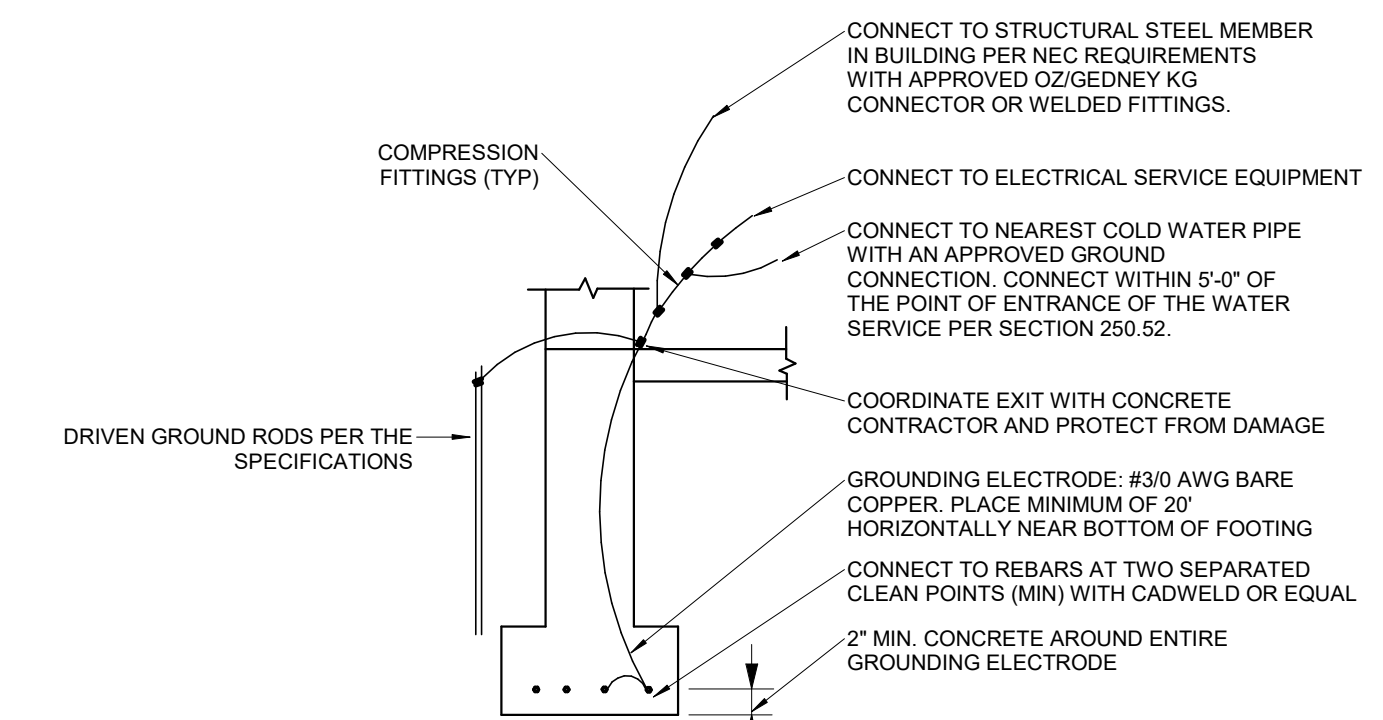
3 ROOF RECEPTACLE MOUNTING DETAIL
E4-1 SCALE: NOT TO SCALE



9 CORRIDOR NORTH ELEVATION
E4-1 SCALE: 1/8" = 1'-0"



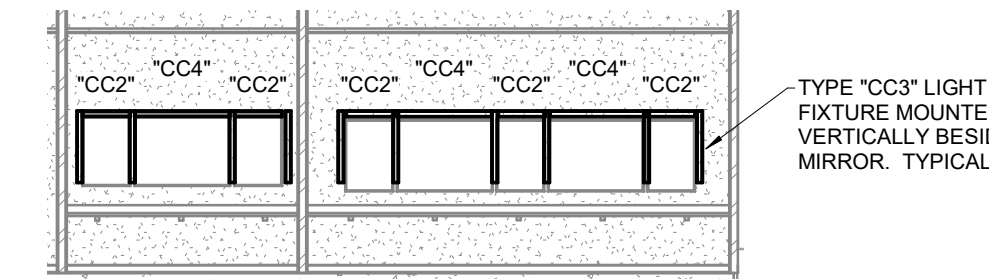
6 LOBBY ELEVATION
E4-1 SCALE: 1/8" = 1'-0"



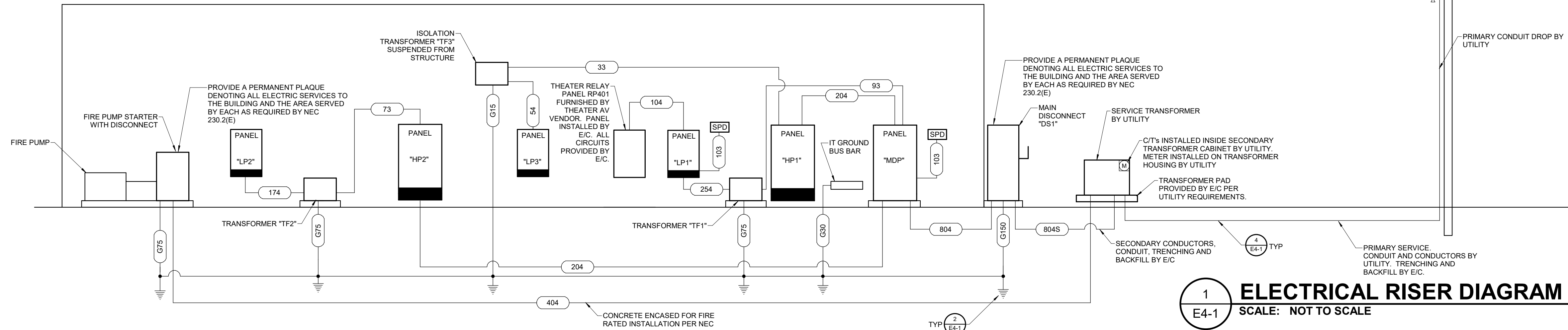
2 GROUNDING ELECTRODE DETAIL
E4-1 SCALE: NOT TO SCALE

AVAILABLE FAULT CURRENT:
THE FOLLOWING ASSUMPTIONS WERE MADE TO CALCULATE THE AVAILABLE FAULT CURRENT: 1000 KVA TRANSFORMER, 6.1% IMPEDANCE, AND 25 FEET OF SECONDARY CONDUCTOR TO THE MAIN DISTRIBUTION PANEL. CONTRACTOR SHALL CONTACT ENGINEER IF MODIFICATIONS ARE MADE TO CONSTRUCTION DOCUMENTS SPECIFIED CONDUCTOR TYPE, CONDUCTOR QUANTITY, AND/OR TRANSFORMER LOCATION/INFORMATION. IF NO MODIFICATIONS HAVE BEEN MADE AFTER LISTED CALCULATION DATE, THE CONTRACTOR SHALL PROVIDE A PERMANENT PLACARD AT THE SERVICE DISCONNECTING MEANS. PLACARD SHALL MEET REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. PLACARD SHALL READ: "MAXIMUM AVAILABLE FAULT CURRENT: 23,920 AMPS, CALCULATED ON APRIL 26, 2023"

5 DRESSING ROOMS ELEVATION
E4-1 SCALE: 1/8" = 1'-0"



1 ELECTRICAL RISER DIAGRAM
E4-1 SCALE: NOT TO SCALE



FEEDER SCHEDULE

FEEDER TAG	FEEDER SIZE
33	3-#10, 1-#10 G, 0.75" C
54	4-#6, 1-#10 G, 1" C
73	3-#4, 1-#6 G, 1" C
93	3-#2, 1-#6 G, 1.25" C
103	3-#1, 1-#6 G, 1.25" C
104	4-#1, 1-#6 G, 1.5" C
174	4-#2/0, 1-#6 G, 1.5" C
204	4-#3/0, 1-#6 G, 2" C
254	4-250kcmil, 1-#4 G, 2.5" C
404	(2) sets of 4-#3/0, 1-#3 G, 2" C
804	(3) sets of 4-300kcmil, 1-#1/0 G, 3" C
804S	(3) sets of 4-300kcmil, 3" C
G15	#8 COPPER GEC
G30	#6 COPPER GEC
G75	#2 COPPER GEC
G150	#2/0 COPPER GEC

LUMINAIRE SCHEDULE

Table with columns: PLAN MARK, MANUFACTURER, MODEL, EQUIVALENT MANUF. SERIES, MOUNTING TYPE, FINISH, SOURCE TYPE, LUMINAIRE SOURCE, LUMENS, COLOR TEMP (K), CRI, VOLTAGE, LOAD (VA), DESCRIPTION. Includes rows for various lighting fixtures like NULITE, TOKSTAR, WILLIAMS, LEDP60-2000-35K-CS-UNV, etc.

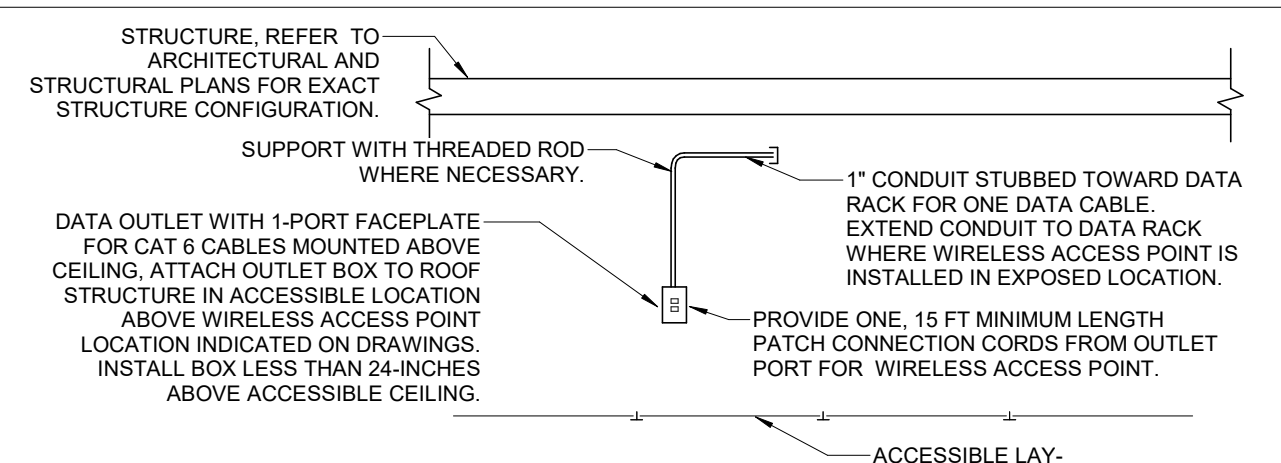
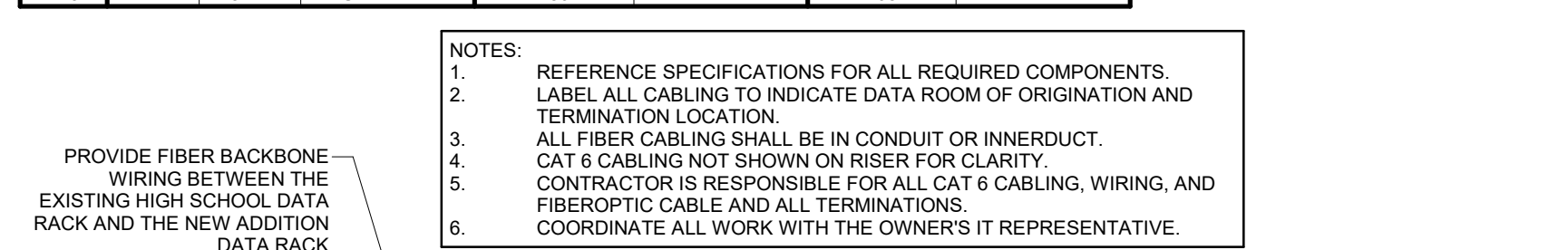
NOTES: 1. FIXTURE SHALL BE FORMED INTO AN 8 FOOT SQUARE AS SHOWN ON THE PLANS. PROVIDE ALL REQUIRED FITTINGS... 2. PROVIDE WITH DRIVERS EQUAL TO FRY REGLET CV-D-150-24...

TIME SWITCH SCHEDULE

Table with columns: PLAN MARK, EQUIPMENT SERVED, VOLTAGE, MANUFACTURER, MODEL, SWITCH TYPE, AMP, POLES, ENCLOSURE, NOTES. Includes rows for EXTERIOR LIGHTING.

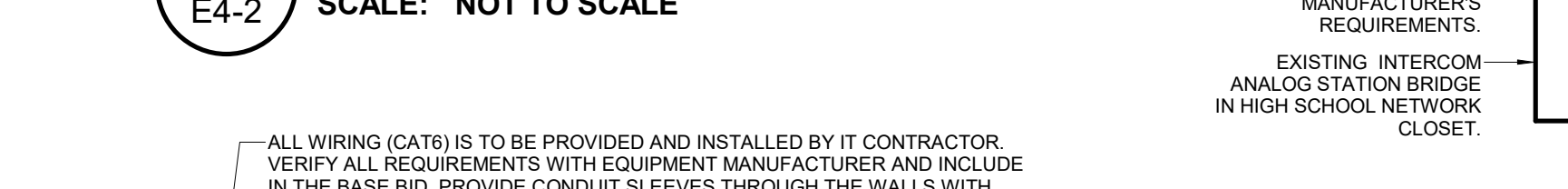
TRANSFORMER SCHEDULE

Table with columns: PLAN MARK, TYPE, KVA, MOUNTING, VOLTAGE, CONNECTION, PRIMARY VOLTAGE, CONNECTION, SECONDARY VOLTAGE, CONNECTION. Includes rows for T4, TF2, TF3 transformers.

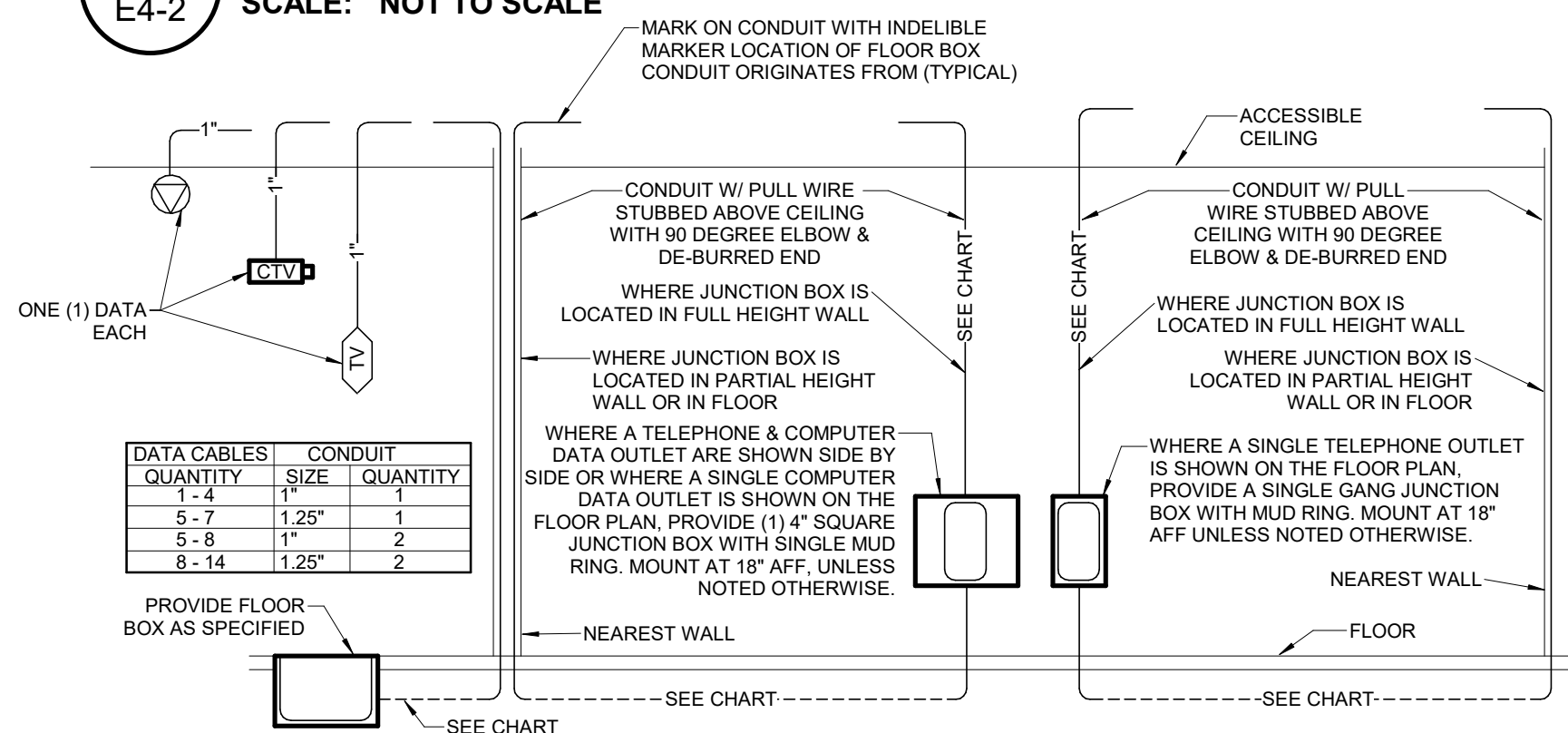


5 WIRELESS ACCESS POINT DETAIL SCALE: NOT TO SCALE

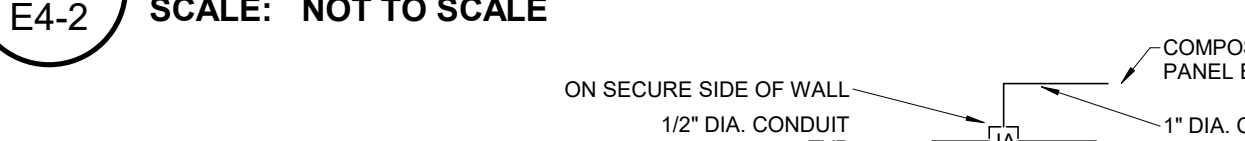
9 IT SYSTEM RISER SCALE: NOT TO SCALE



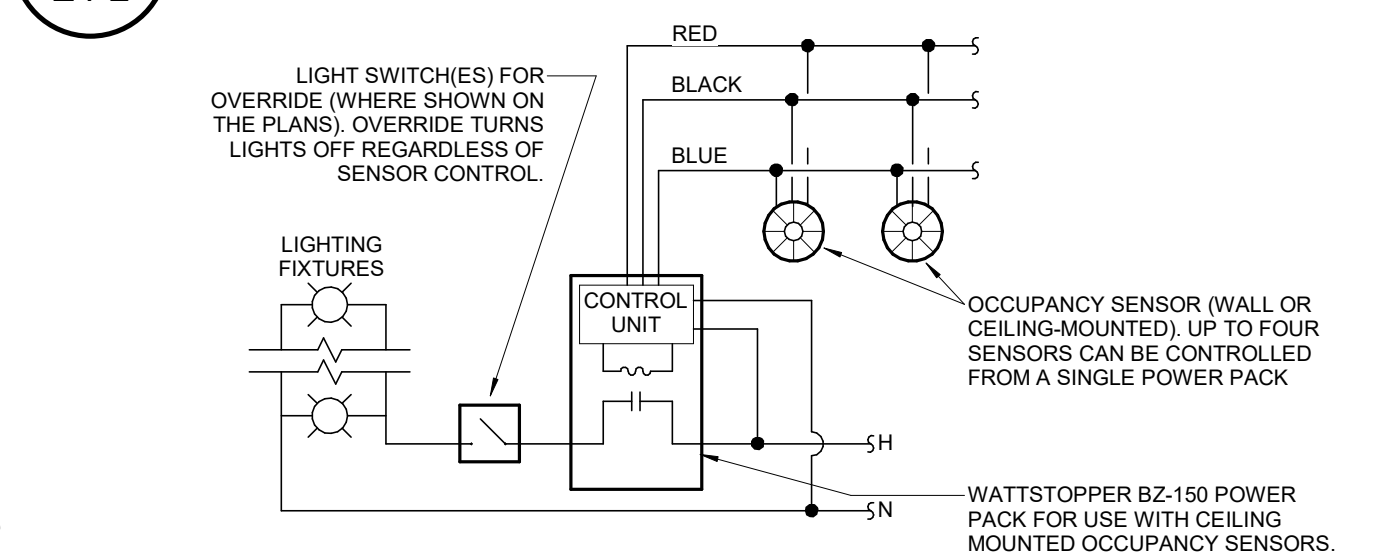
4 INTERCOM SYSTEM RISER DIAGRAM SCALE: NOT TO SCALE



8 CCTV SYSTEM RISER DIAGRAM SCALE: NOT TO SCALE



3 TELE/DATA ROUGH-IN DIAGRAM SCALE: NOT TO SCALE



PHOTOCELL SCHEDULE

Table with columns: PLAN MARK, EQUIPMENT SERVED, VOLTAGE, MANUFACTURER, MODEL, SWITCH TYPE, AMPERAGE, POLE, ENCLOSURE, ACCESSORIES. Includes rows for EXTERIOR LIGHTING and EXTERIOR MARQUEE LIGHTING.

LIGHTING CONTACTOR SCHEDULE

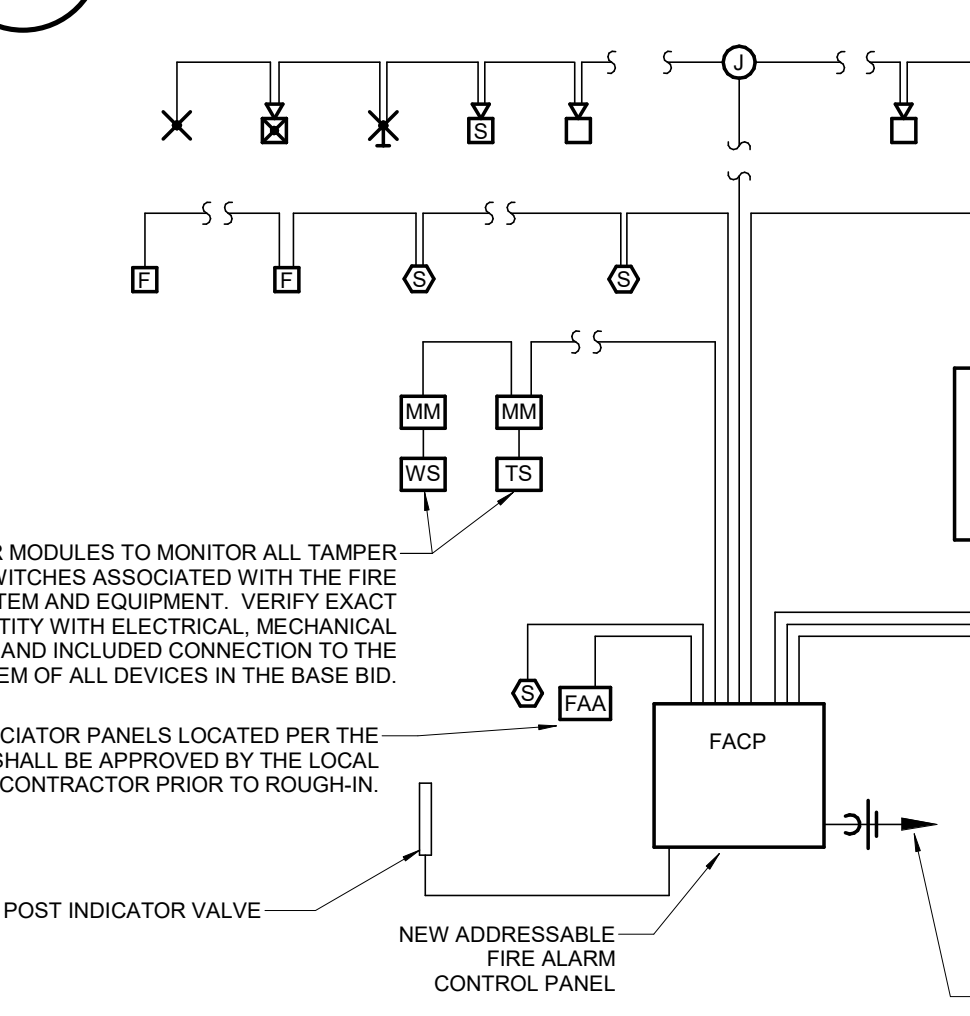
Table with columns: PLAN MARK, EQUIPMENT SERVED, VOLTAGE, TYPE, AMPERAGE, POLES, NEMA RATING, NOTES, CONTROL TYPE, CONTROLLED BY. Includes rows for LOBBY LIGHTING and EXTERIOR MARQUEE LIGHTING.

DISCONNECT SCHEDULE

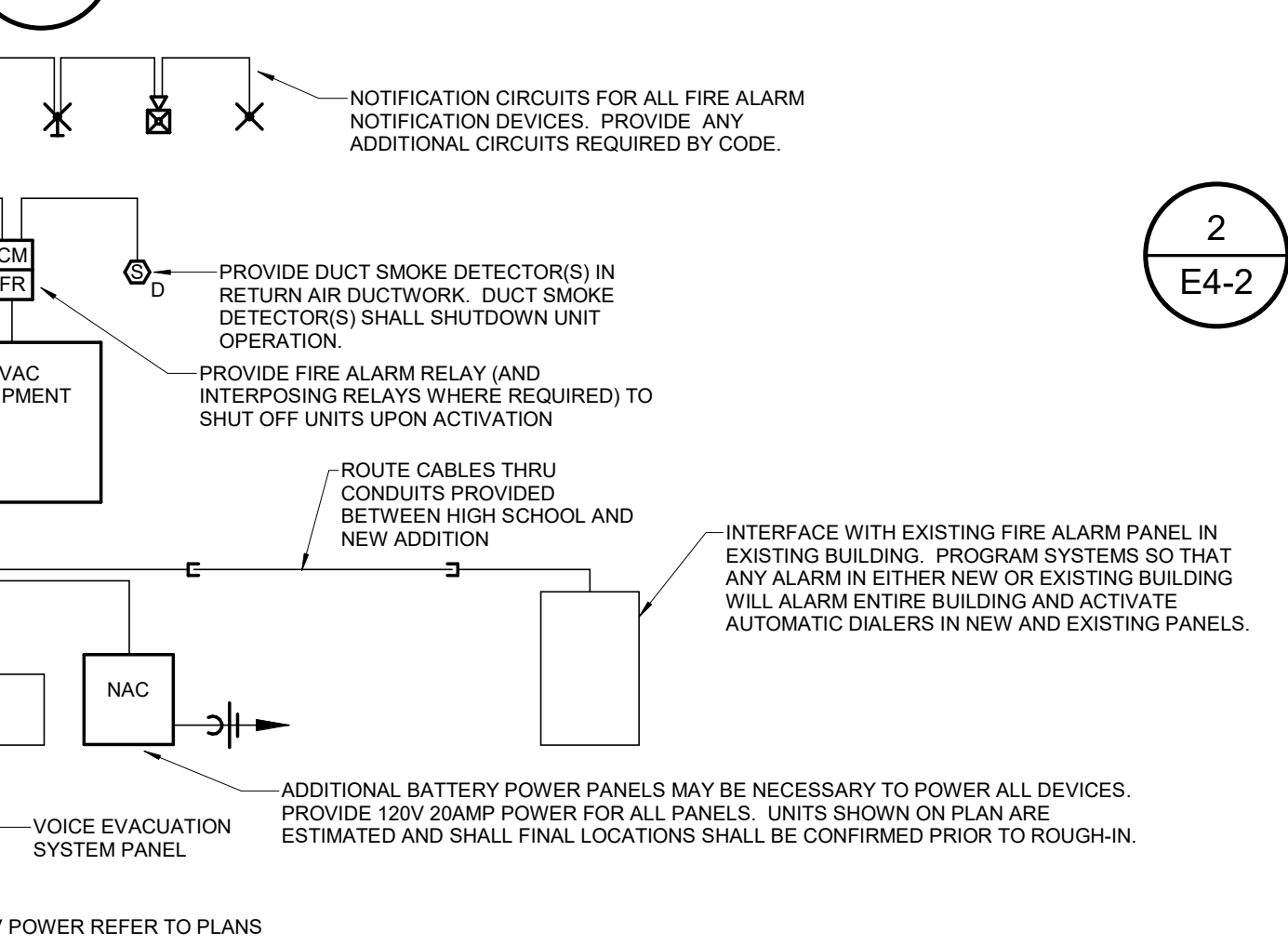
Table with columns: PLAN MARK, EQUIPMENT SERVED, VOLTAGE, DUTY, SWITCH AMP, POLES, FUSE AMP, TYPE, ENCLOSURE NEMA TYPE, NOTES. Includes rows for SERVICE DISCONNECT, JOCKEY PUMP, RETRACTING BLEACHERS, EV CHARGER, etc.

FIRE ALARM SYSTEM SEQUENCE OF OPERATION table with columns: ACTIVATED DEVICE, LOCATION, ACTION. Includes rows for SMOKE DETECTOR, SMOKE DETECTOR, MANUAL PULL STATION, SPRINKLER WATER FLOW SWITCH, VALVE TAMPER SWITCH.

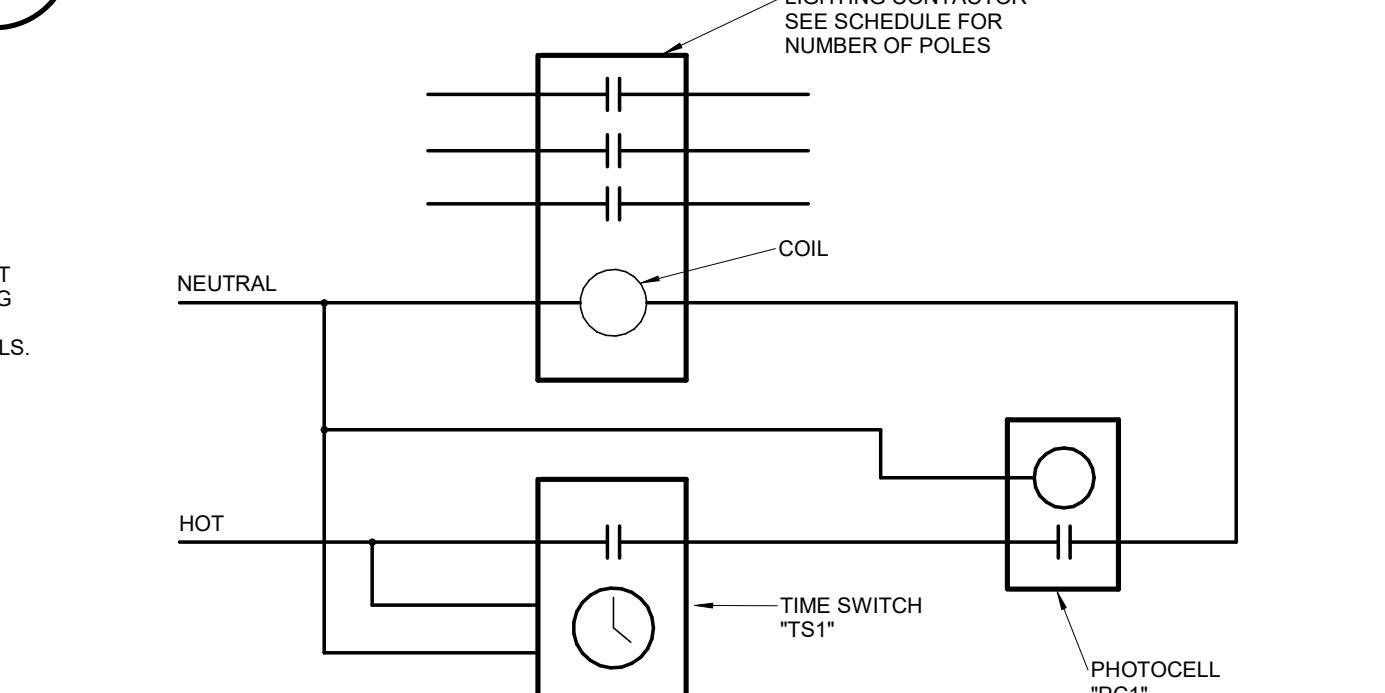
10 CCTV CAMERA DETAIL SCALE: NOT TO SCALE



7 ACCESS CONTROL SYSTEM - DOOR SCALE: NOT TO SCALE



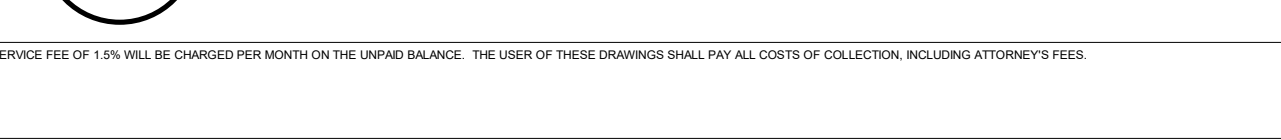
2 OCCUPANCY SENSOR WIRING DIAGRAM SCALE: NOT TO SCALE



6 FIRE ALARM SYSTEM SCHEMATIC RISER AND SEQUENCE SCALE: NOT TO SCALE



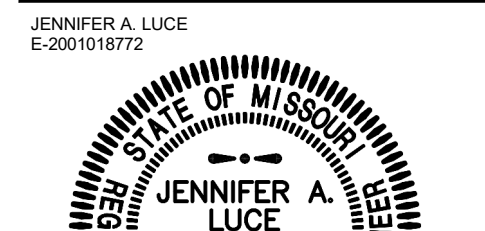
1 LIGHTING CONTROL DETAIL SCALE: NOT TO SCALE



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REVISION SCHEDULE

CASSVILLE HS: PERFORMING ARTS CENTER PROJECT DESCRIPTION: 1825 STATE HWY Y, CASSVILLE, MO 65625

PROJECT ENGINEER: JAL DRAWN BY: AGB CHECKED BY: JAL

PROJECT NUMBER: 21-620

DATE: 05-17-2023

ELECTRICAL DETAILS & SCHEDULES

SHEET NUMBER: E4-2

PANELBOARD NOTES

GENERAL NOTES	
1	PROVIDE 20 AMP 1-POLE SPARE BREAKERS FOR ALL UNUSED POLES UNLESS NOTED OTHERWISE
2	
3	
CIRCUIT BREAKER ACCESSORY ABBREVIATION	
AC	AUXILIARY CONTACTS
AF	ARC-FAULT INTERRUPTING
AT	ALARM TRIP
EPD	EQUIPMENT PROTECTION DEVICE
EX	EXISTING CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT INTERRUPTING BREAKER
HACR	HACR RATING
HLF	HANDLE LOCK-OFF
HLN	HANDLE LOCK-ON
SR	SWITCH RATING
ST	SHUNT TRIP BREAKER
PANELBOARD ACCESSORY ABBREVIATION	
CH	CONCEALED HINGE
CL	COMPRESSION LUGS
CW	COLUMN WIDTH PANEL
DD	HINGED DOOR WITHIN A DOOR
EGB	EXTENDED GUTTER BOTTOM
EGL	EXTENDED GUTTER LEFT
EGR	EXTENDED GUTTER RIGHT
EGT	EXTENDED GUTTER TOP
FL	FLUSH LOCK(S)
FTL	FEED-THRU LUGS
GB	EQUIPMENT GROUND BAR
GBI	GROUND BAR INSULATOR
NBK	NEUTRAL BOND KIT
SER	SERVICE ENTRANCE RATING
SFB	SUB-FEED CIRCUIT BREAKER
SFL	SUB-FEED LUGS
SCB	SECOND GROUND BAR KIT
SPD	SURGE PROTECTION DEVICE
TRN	200% RATED NEUTRAL BAR

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL NAME: "LP1"		LOCATION: ELECTRICAL 119 FED BY: "TF1" MOUNTING: SURFACE				VOLTAGE: 120/208V, 3Ph, 4W ENCLOSURE: NEMA 1 MANUFACTURER: SQUARE D PANEL TYPE: NQ				MAIN TYPE: MCB BUS RATING (A): 400 A MCB RATING (A): 250 A MIN. AIC RATING (A): 10000										
CKT	LOAD DESCRIPTION	C	W	G	CB	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT		
1	"EF4"	3/4"	#12	#12	20	1		60	300			1	20	#12	#12	3/4"	FIRE ALARM PANEL	2		
3	"EF5" & "EF6"	3/4"	#12	#12	20	1			120	360			1	20	#12	#12	3/4"	DATA EQUIPMENT RECEPTACLE	4	
5	DRESSING ROOM RECEPT	3/4"	#12	#12	20	1				180	364			1	20	#12	#12	3/4"	DRESSING RM MIRROR LIGHTING	6
7	BLEACHER AISLE LIGHTING	3/4"	#12	#12	20	1		500	1260					1	20	#10	#8	3/4"	ROOFTOP RECEPTACLES	8
9	BAND RECEPTACLES	3/4"	#10	#10	20	1			720	1130				1	20	#12	#12	3/4"	OVERHEAD DOOR	10
11	CLASSROOM RECEPTACLES	3/4"	#12	#12	20	1				720	1500			2	20	#12	#12	3/4"	"ECHZ"	12
13	LOBBY RECEPTACLE	3/4"	#12	#12	20	1		180	1500											14
15	OVERHEAD DOOR	3/4"	#12	#12	20	1			1130	1200										16
17	"EWH1"	3/4"	#12	#12	20	2				1508	1508			2	20	#12	#12	3/4"	"EWH2"	18
19								1508	1508											20
21	PROJECTOR	3/4"	#10	#10	20	1			1200	1440				1	20	#12	#12	3/4"	STAGE RECEPTACLES	22
23	PROJECTOR SCREEN	3/4"	#12	#12	20	1				180	180			1	20	#12	#12	3/4"	LOBBY RECEPTACLE	24
25	THEATER RELAY PANEL RP401	1-1/4"	#1	#8	100	3		4254	180					1	20	#12	#12	3/4"	LOBBY RECEPTACLE	26
27														1	20	#12	#12	3/4"	LOBBY RECEPTACLE	28
29										5014	180			1	20	#12	#12	3/4"	LOBBY RECEPTACLE	30
31	DRESSING ROOM RECEPT	3/4"	#12	#12	20	1		180	180					1	20	#12	#12	3/4"	DRESSING ROOM RECEPT	32
33	LOBBY RECEPTACLE	3/4"	#12	#12	20	1			180	180				1	20	#12	#12	3/4"	DRESSING ROOM RECEPT	34
35	DRESSING ROOM RECEPT	3/4"	#12	#12	20	1				180	720			1	20	#12	#12	3/4"	STAGE FLOOR BOXES	36
37	CORRIDOR RECEPTACLES	3/4"	#10	#10	20	1		720	900					1	20	#10	#10	3/4"	BAND RECEPTACLES	38
39	DRESSING ROOM RECEPT	3/4"	#12	#12	20	1			180	720				1	20	#12	#12	3/4"	MEZZANINE RECEPTACLES	40
41	STAGE RECEPTACLES	3/4"	#10	#10	20	1				900	1080			1	20	#10	#10	3/4"	CORRIDOR RECEPTACLES	42
43	CHOIR RECEPTACLES	3/4"	#10	#10	20	1		1080	0											44
45	LOBBY RECEPTACLES	3/4"	#10	#10	20	1			900	1080				1	20	#12	#12	3/4"	CLASSROOM RECEPTACLES	46
47	SURGE PROTECTION DEVICE	1"	#3	#8	100	3				10	960			3	20	#12	#12	3/4"	RETRACTABLE BLEACHERS	48
49								10	960											50
51									10	960										52
53	HOIST POWER UNIT	3/4"	#12	#12	15	3				1200	0				1	20				54
55								1200	0						1	20				56
57									1200	0					1	20				58
59	SPARE									0	0				1	20				60
61	SPARE							0	0						1	20				62
63	SPARE							0	0						1	20				64
65	SPARE							0	0						1	20				66
67	SPARE							0	0						1	20				68
69	SPARE							0	0						1	20				70
71	SPARE							0	0						1	20				72
73	SPARE							0	0						1	20				74
75	SPARE							0	0						1	20				76
77	SPARE							0	0						1	20				78
79	SPARE							0	0						1	20				80
81	SPARE							0	0						1	20				82
83	SPARE							0	0						1	20				84
CONNECTED PHASE LOAD								16480 VA	16424 VA	16384 VA	CALCULATED PANEL AMPS:									
*PHASE DIVERSIFIED LOAD								16731 VA	16674 VA	16633 VA	174 A									
*PHASE DIVERSIFIED AMPS								139 A	139 A	139 A	(DIVERSIFIED LOADS CALCULATED PER THE NATIONAL ELECTRIC CODE.)									
NOTES/ACCESSORIES:										PANEL TOTALS										
1. PROVIDE SPARE 20A, SINGLE-POLE BREAKERS IN ALL UNUSED SPACES.										TOTAL CONNECTED LOAD: 49288 VA										
2. CH, FL, GB,										TOTAL DIVERSIFIED LOAD: 50038 VA										
										CONTROLLING LOAD: HEATING										

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL NAME: "LP2"		LOCATION: MECH 100A FED BY: "TF2" MOUNTING: SURFACE				VOLTAGE: 120/208V, 3Ph, 4W ENCLOSURE: NEMA 1 MANUFACTURER: SQUARE D PANEL TYPE: NQ				MAIN TYPE: MCB BUS RATING (A): 225 A MCB RATING (A): 150 A MIN. AIC RATING (A): 10000										
CKT	LOAD DESCRIPTION	C	W	G	CB	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT		
1	HEATER "EBH1"	3/4"	#12	#12	20	1		1152	1152			1	20	#12	#12	3/4"	HEATER "EBH2"	2		
3	WATER HEATER "WH1"	3/4"	#12	#12	20	1			600	480			1	20	#12	#12	3/4"	ADA DOOR OPENER	4	
5	CIRC PUMP "P1"	3/4"	#12	#12	20	1				60	1260			1	20	#12	#12	3/4"	RESTROOM RECEPTACLES	6
7	LOBBY RECEPTACLES	3/4"	#12	#12	20	1		1580	740			GF		1	20	#12	#12	3/4"	WATER COOLERS	8
9	"EF2" & "EF3"	3/4"	#12	#12	20	1			120	1510				1	20	#12	#12	3/4"	LOBBY RECEPT	10
11	ADA DOOR OPENER	3/4"	#12	#12	20	1				240	1500			2	20	#10	#10	3/4"	HEATER "ECH1"	12
13	"EF1"	3/4"	#12	#12	20	1		864	1500											14
15	ROOFTOP RECEPTACLES	3/4"	#12	#12	20	1			360	259				1	20	#12	#12	3/4"	AUDITORIUM MARQUEE LIGHTING	16
17	EXTERIOR MARQUEE LIGHTING	3/4"	#12	#12	20	1				380	360			1	20	#12	#12	3/4"	MECHANICAL RECEPTACLES	18
19	JOCKEY PUMP	3/4"	#12	#12	20	3		430	1200					1	20	#12	#12	3/4"	BMS PANEL	20
21									430	0					1	20				22
23									430	0					1	20				24
25	SPARE							0	0						1	20				26
27	SPARE							0	0						1	20				28
29	SPARE							0	0						1	20				30
31	SPARE							0	0						1	20				32
33	SPARE							0	0						1	20				34
35	SPARE							0	0						1	20				36
37	SPARE							0	0						1	20				38
39	SPARE							0	0						1	20				40
41	SPARE							0	0						1	20				42
CONNECTED PHASE LOAD								8618 VA	3759 VA	4230 VA	CALCULATED PANEL AMPS:									
*PHASE DIVERSIFIED LOAD								9579 VA	4178 VA	4702 VA	101 A									
*PHASE DIVERSIFIED AMPS								80 A	35 A	40 A	(DIVERSIFIED LOADS CALCULATED PER THE NATIONAL ELECTRIC CODE.)									
NOTES/ACCESSORIES:										PANEL TOTALS										
1. PROVIDE SPARE 20A, SINGLE-POLE BREAKERS IN ALL UNUSED SPACES.										TOTAL CONNECTED LOAD: 16607 VA										
2. CH, FL, GB,										TOTAL DIVERSIFIED LOAD: 18459 VA										
										CONTROLLING LOAD: HEATING										

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL NAME: "HP1"		LOCATION: ELECTRICAL 119 FED BY: "MDP" MOUNTING: SURFACE				VOLTAGE: 480/277V, 3Ph, 4W ENCLOSURE: NEMA 1 MANUFACTURER: SQUARE D PANEL TYPE: NF				MAIN TYPE: MLO BUS RATING (A): 225 A MCB RATING (A): 225 A MIN. AIC RATING (A): 25000										
CKT	LOAD DESCRIPTION	C	W	G	CB	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT		
1	EXTERIOR WALLPACK LIGHTING	3/4"	#12	#12	20	1		322	500					1	20	#12	#12	3/4"	AUDITORIUM AISLE LIGHTING	2
3	AUDITORIUM CORRIDOR LIGHTING	3/4"	#12	#12	20	1			365	500				1	20	#12	#12	3/4"	SIGNAGE LIGHTING	4
5	AUDITORIUM CORRIDOR LIGHTING	3/4"	#12	#12	20	1				398	592			1	20	#12	#12	3/4"	AUDITORIUM BLEACHER LIGHTING	6
7	AUDITORIUM FRONT LIGHTING	3/4"	#12	#12	20	1		592	814					1	20	#12	#12	3/4"	AUDITORIUM CENTER LIGHTING	8
9	AUDITORIUM STORAGE LIGHTING	3/4"	#12	#12	20	1			697	1332				1	20	#12	#12	3/4"	AUDITORIUM FEATURE LIGHTING	10
11	EXTERIOR WALLPACK LIGHTING	3/4"	#12	#12	20	1				714	820			1	20	#12	#12	3/4"	PARKING LOT LIGHTING	12
13	CORRIDOR LIGHTING	3/4"	#12	#12	20	1		1623	2005					1	20	#12	#12	3/4"	CHOIR & BAND LIGHTING	14
15	AUDITORIUM FEATURE LIGHTING	3/4"	#12	#12	20	1			1433	1521				1	20	#12	#12	3/4"	AUDITORIUM FEATURE LIGHTING	16
17	CLASSROOM LIGHTING	3/4"	#12	#12	20	1				878	984			1	20	#12	#12	3/4"	MEZZANINE LIGHTING	18
19	SPARE							0	2000					3	25	#10	#10	3/4"	TF3	20
21	SPARE							0	2000											