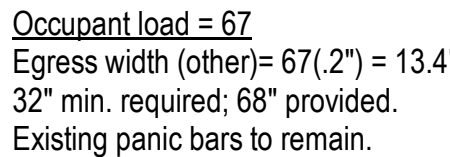


MEP  
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associates Consulting  
Engineers, Inc  
1730 Walnut Sreet  
Kansas City, MO 6410  
816.221.1411

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Lees Summit, MO 64081

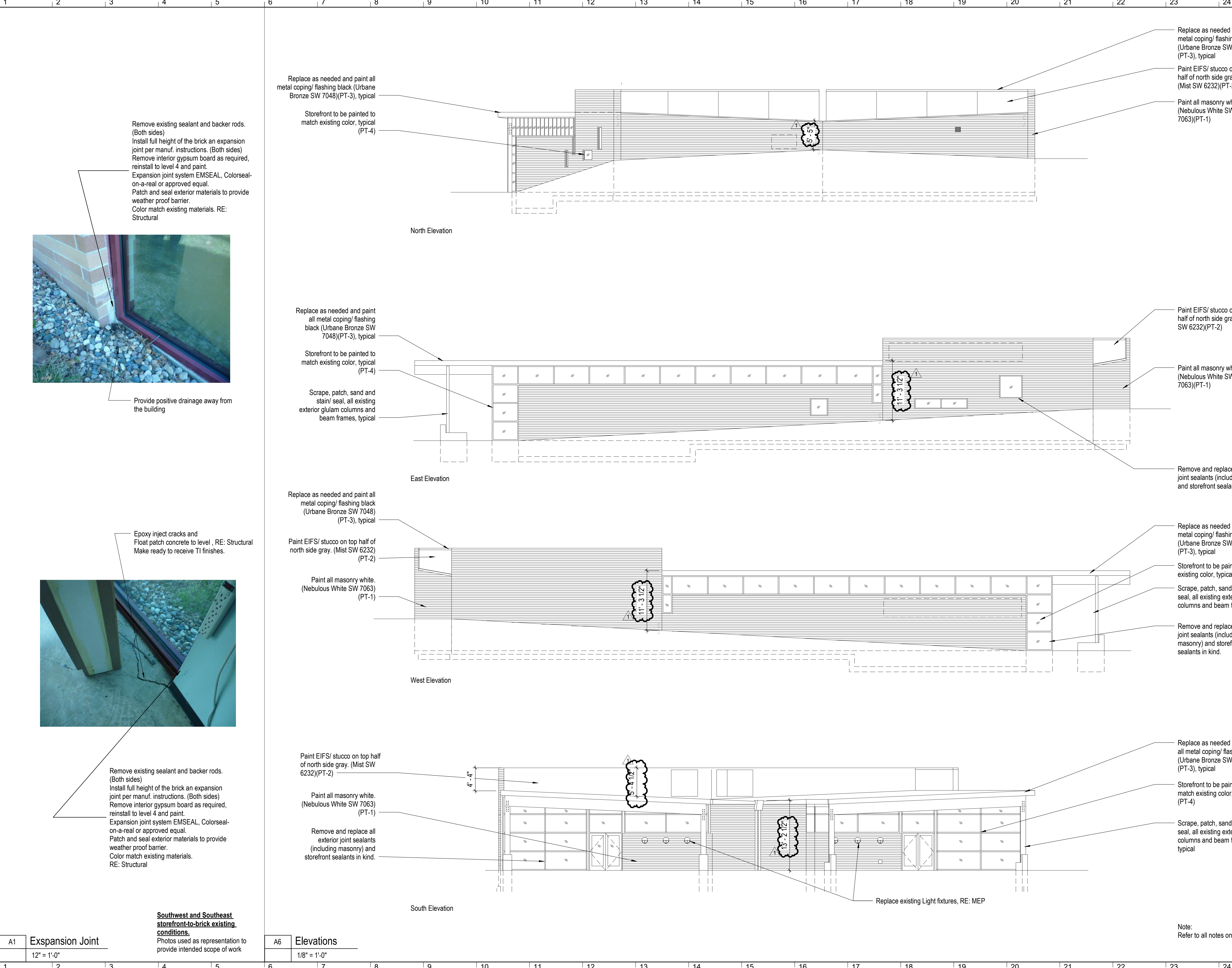
Cover, Code Summary  
Notes

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Remove existing sealant and backer rods. (Both sides)  
Install full height of the brick an expansion joint per manuf. instructions. (Both sides)  
Remove interior gypsum board as required, reinstall to level 4 and paint.  
Expansion joint system EMSEAL, Colorseal-on-a-real or approved equal.  
Patch and seal exterior materials to provide weather proof barrier.  
Color match existing materials. RE: Structural



Provide positive drainage away from the building

Epoxy inject cracks and  
Float patch concrete to level , RE: Structural  
Make ready to receive TI finishes.



Remove existing sealant and backer rods. (Both sides)  
Install full height of the brick an expansion joint per manuf. instructions. (Both sides)  
Remove interior gypsum board as required, reinstall to level 4 and paint.  
Expansion joint system EMSEAL, Colorseal-on-a-real or approved equal.  
Patch and seal exterior materials to provide weather proof barrier.  
Color match existing materials. RE: Structural

**Southwest and Southeast storefront-to-brick existing conditions.**  
Photos used as representation to provide intended scope of work

Replace as needed and paint all metal coping/ flashing black (Urbane Bronze SW 7048)(PT-3), typical

Storefront to be painted to match existing color, typical (PT-4)

Replace as needed and paint all metal coping/ flashing black (Urbane Bronze SW 7048)(PT-3), typical

Storefront to be painted to match existing color, typical (PT-4)

Scrape, patch, sand and stain/ seal, all existing exterior glulam columns and beam frames, typical

Replace as needed and paint all metal coping/ flashing black (Urbane Bronze SW 7048)(PT-3), typical

Paint EIFS/ stucco on top half of north side gray. (Mist SW 6232)(PT-2)

Paint all masonry white. (Nebulous White SW 7063)(PT-1)

Paint EIFS/ stucco on top half of north side gray. (Mist SW 6232)(PT-2)

Paint all masonry white. (Nebulous White SW 7063)(PT-1)

Remove and replace all exterior joint sealants (including masonry) and storefront sealants in kind.

Replace as needed and paint all metal coping/ flashing black (Urbane Bronze SW 7048)(PT-3), typical

Paint EIFS/ stucco on top half of north side gray. (Mist SW 6232)(PT-2)

Paint all masonry white. (Nebulous White SW 7063)(PT-1)

Paint EIFS/ stucco on top half of north side gray. (Mist SW 6232)(PT-2)

Paint all masonry white. (Nebulous White SW 7063)(PT-1)

Remove and replace all exterior joint sealants (including masonry) and storefront sealants in kind.

Replace as needed and paint all metal coping/ flashing black (Urbane Bronze SW 7048)(PT-3), typical

Storefront to be painted to match existing color, typical (PT-4)

Scrape, patch, sand and stain/ seal, all existing exterior glulam columns and beam frames, typical

Remove and replace all exterior joint sealants (including masonry) and storefront sealants in kind.

Replace as needed and paint all metal coping/ flashing black (Urbane Bronze SW 7048)(PT-3), typical

Storefront to be painted to match existing color, typical (PT-4)

Scrape, patch, sand and stain/ seal, all existing exterior glulam columns and beam frames, typical

Replace existing Light fixtures, RE: MEP

Note:  
Refer to all notes on AO

**GastingerWalker &**

STRUCTURAL  
Bob D. Campbell & Company  
4338 Bellevue Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford | Fendler +  
associates Consulting  
Engineers, Inc  
1730 Walnut Street  
Kansas City, MO 64108  
816.221.1411

## 451 NW Murray Rd Renovation

451 NW Murray Rd  
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Response To Comments #1 04 NOV 2021



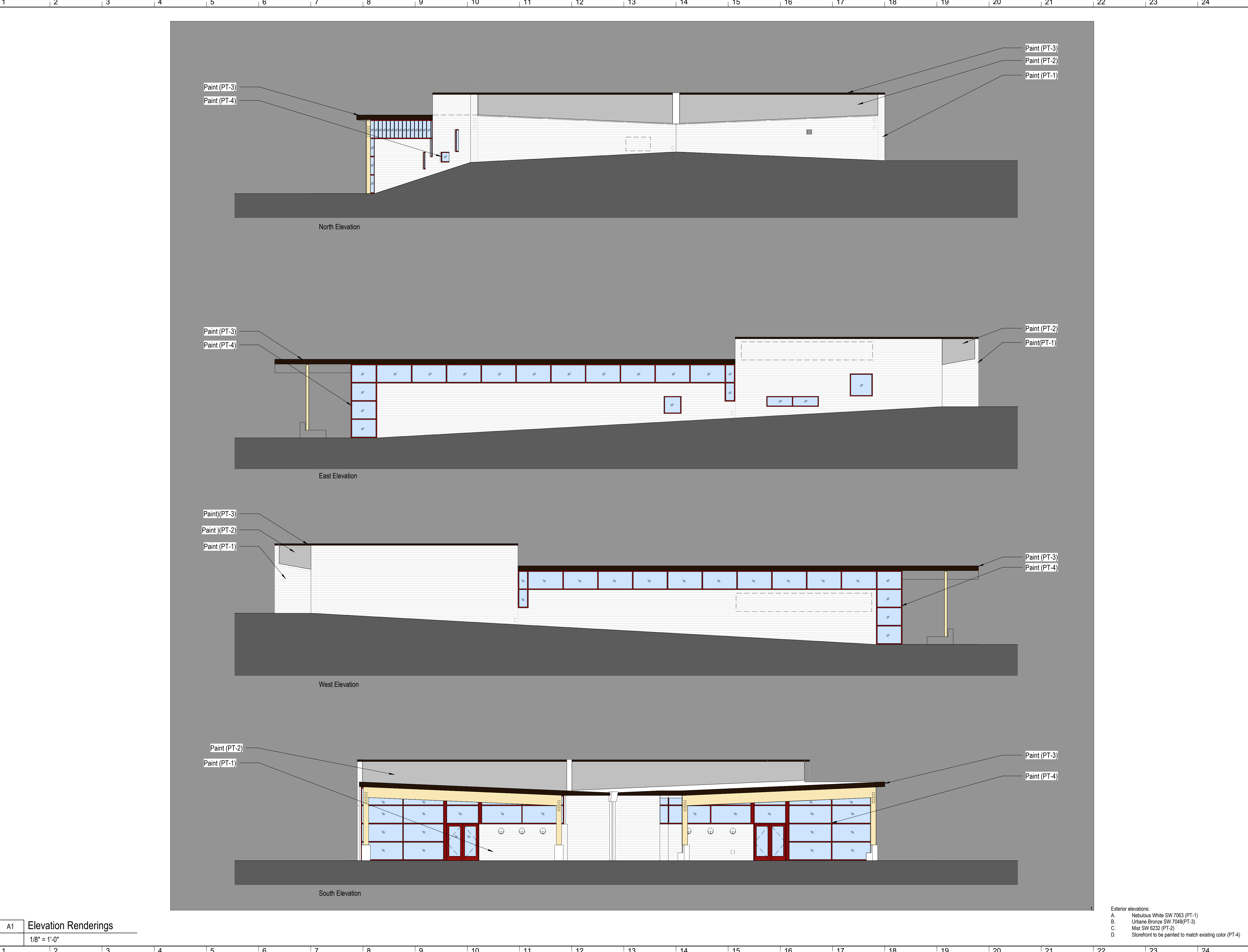
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Checked By KR

### Elevations

**A1**



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A1	Elevation Renderings
A	1/8" = 1'-0"

Exterior elevations:  
A. Nebulous White SW 7063 (PT-1)  
B. Urbane Bronze SW 7048(PT-3)  
C. Mist SW 6232 (PT-2)  
D. Storefront to be painted to match existing color (PT-4)

RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review  
Development Services Department  
Lee's Summit, Missouri  
8/17/2021

GastingerWalker&

Architects | Interior Designers | Construction Managers  
817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.com

STRUCTURAL  
Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford | Fendler +  
associates Consulting  
Engineers, Inc  
1730 Walnut Sreet  
Kansas City, MO 64108  
816.221.1411

## 451 NW Murray Rd Renovation

451 NW Murray Rd  
Lees Summit, MO 64081

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KR

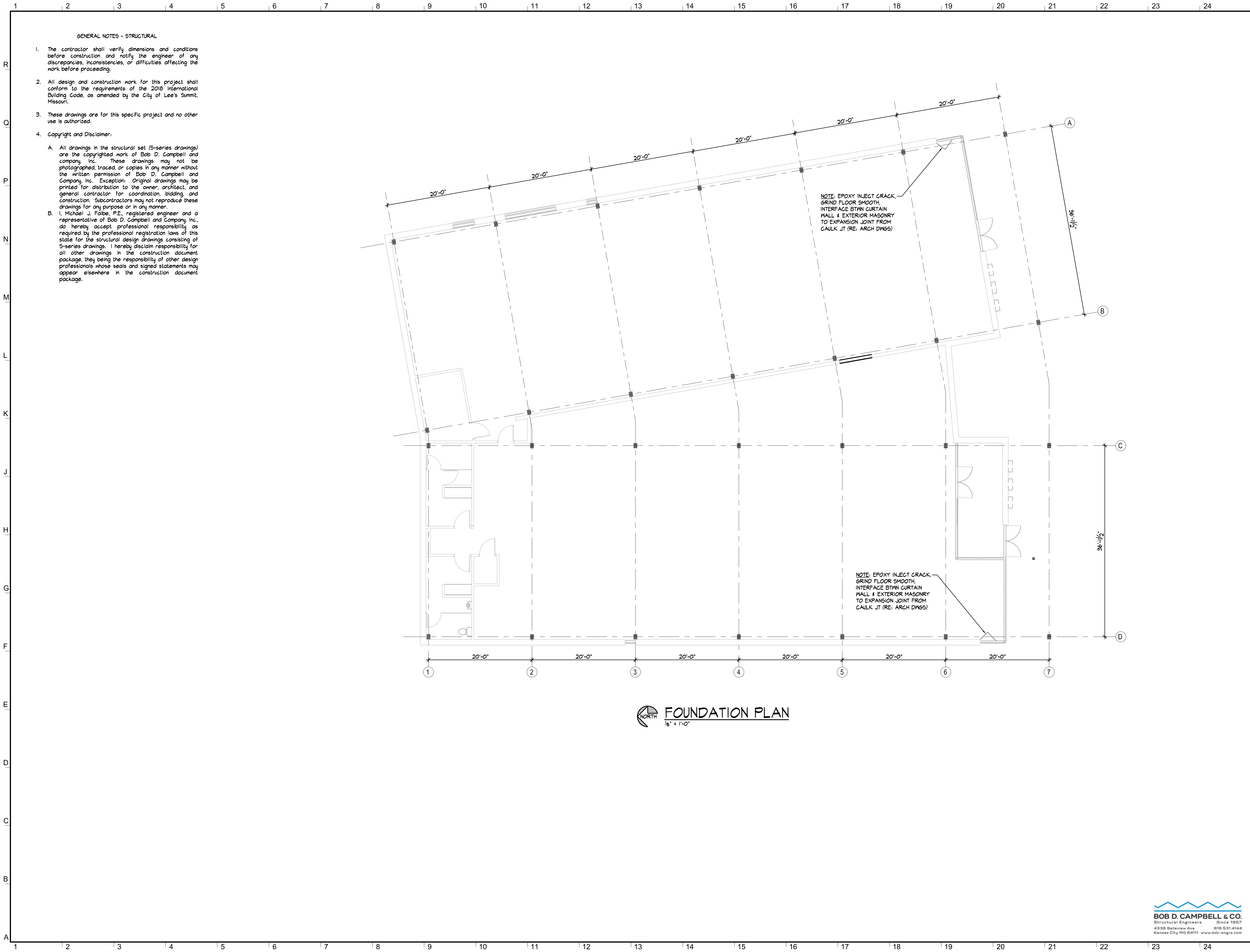
Elevation Renderings

A2

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STRUCTURAL  
Bob D. Campbell & Company  
4338 Bellevue Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford | Fendler +  
associates Consulting  
Engineers, Inc.  
1730 Walnut Street  
Kansas City, MO 64108  
816.221.1411

## 451 NW Murray Rd Renovation

451 NW Murray Rd  
Lees Summit, MO 64081

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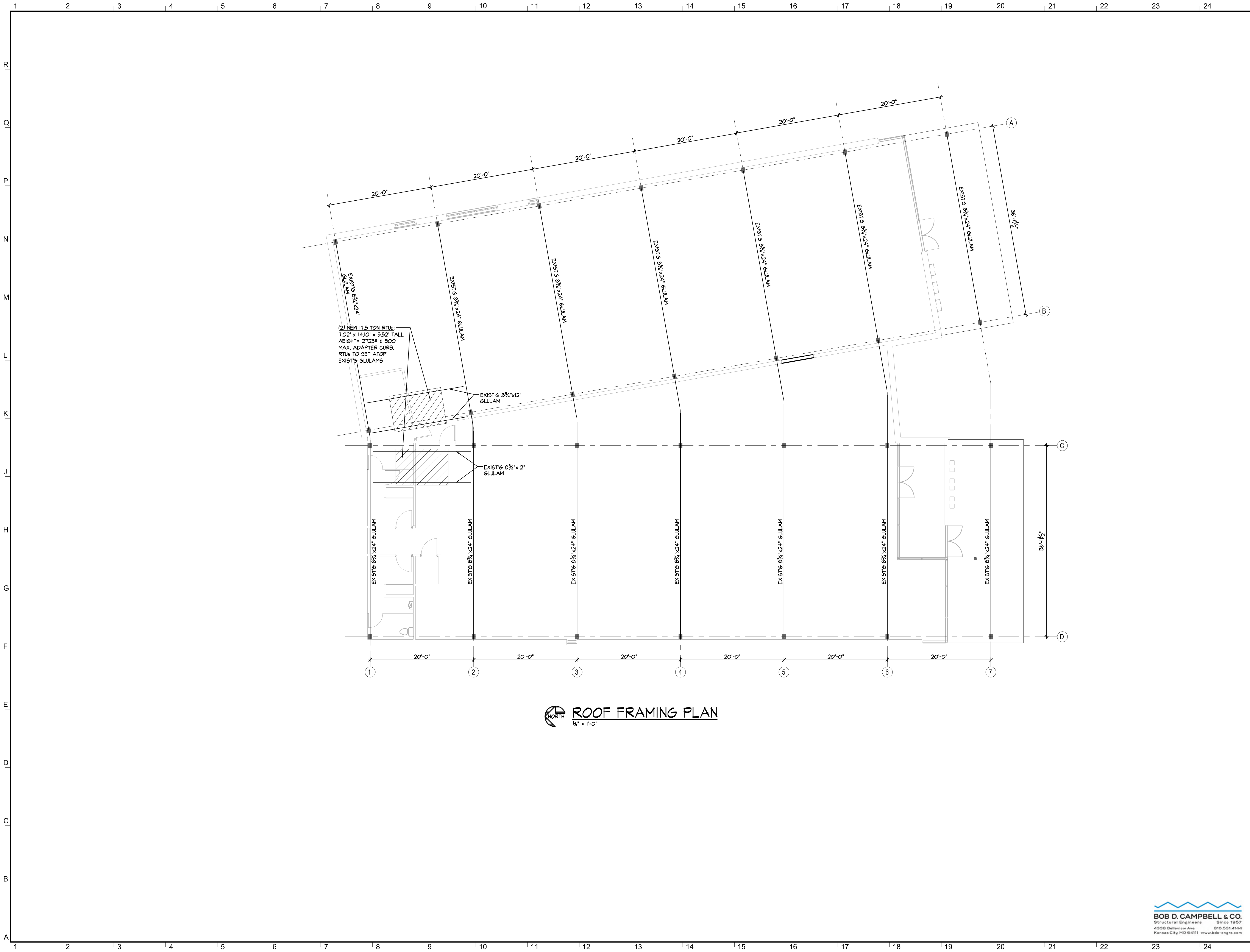
JMF  
MJF

Foundation Plan

# S1



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Drawn By JMF  
Checked By JMF

Roof Framing Plan

S2

## 451 NW Murray Rd Renovation

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Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144

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Lankford | Fendler +  
associates Consulting  
Engineers, Inc.  
1730 Walnut Street  
Kansas City, MO 64108  
816.221.1411

GastingerWalker &

Architects | Interior Designers | Construction Managers  
817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.com







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210 100  
FIRE PROTECTION

- 1.0 SCOPE:
- A. Fire protection shall be governed by all applicable provisions of the Contract Document.
- B. Provide a complete and operational fire protection system as required by NFPA, systems shall include:
1. Wet sprinkler system – NFPA 13.
2. Systems shall be compliant with NFPA 70, 72, FM and UL as applicable.
- C. All fire protection components shall be UL and FM approved devices where applicable as required by NFPA.
- D. Upon completion of the work, system acceptance testing shall be performed by the sprinkler contractor in accordance with requirements of NFPA with a completed copy of 'Contractor's Material and Test Certificate' provided.
- E. All cable ties for controls and other cable systems located in plenums utilized for air movement that are not installed in conduit shall be 25/50 flame and smoke rated, Hellermann Tyton T50R2C2UL or equivalent.
- F. Provide permanent identification of all valves, piping, electrical components and equipment in accordance with NFPA 13 and 14.
- 2.0 WET SPRINKLER AND STANDPIPE SYSTEMS
- A. Systems shall be in accordance with NFPA 13 and complete in every respect to provide complete coverage of all areas in the building, or throughout the area of work as indicated. Sprinkler system shall be hydraulically designed per appropriate hazard class.
- B. Sprinkler system shall be a delegated design, contractor shall be responsible for layout and design of the fire sprinkler system. Submit all necessary documentation (plans, calculations, cut sheet literature and flow tests) and obtain necessary permits for approval and installation of the system. Provide PE or NICET stamp on submittal drawings.
- C. As required by application, system shall include but not be limited to pipe and hangers, sprinklers, valves, inspector tests, fire department connection, audible and visible alarms, flow and tamper switches, gages, control panels, wiring, hose valves, etc. Conform to the requirements of Division 16, FM and UL or IRI where required by owner.
1. System shall be an extension of and/or modifications to the existing building system.
2. As close as possible, match function, coverage, style and appearance of existing devices.
- D. Reconfigure existing building sprinkler piping and/or sprinklers within the scope of work area in order to provide proper coverage per NFPA and Local Authorities.
- E. Where required to prevent freezing of the system, provide dry sidewall or pendant sprinklers, including all necessary components including: isolation and control valves, and related items for a complete working system.
- F. Upon final acceptance, the owner shall be responsible for proper maintenance as established by the latest edition of NFPA 25 'Standard for the inspection, Testing and Maintenance of Water Based Fire Protection Systems'.
- 3.0 PIPING, FITTING AND VALVES:
- A. Fire protection piping and components above ground -
1. Pipe -
- a. All sizes - Schedule 40, black steel, malleable iron threaded, flanged or welded fittings; roll or cut groove mechanical joints with wrought or forged steel fittings or roll grooved end couplings.
- b. Contractor to match existing building piping material standards.
2. Sprinkler piping shall be independently supported from all other systems, no other system or component may bear on any sprinkler pipe or support. In accordance with NFPA 25 or where required by local authority, sprinkler piping shall not be subjected to external loads by materials either hung from or resting on sprinkler piping.
- 4.0 SPRINKLERS
- A. Provide quick response sprinklers, standard response, extended coverage or dry sprinklers as required by application. Replace existing non-compliant sprinklers as required by application.
- B. Sprinklers shall be of the following styles, subject to application.
1. Where not otherwise indicated, sprinkler type, style, appearance and coverage to match existing.
- C. Locate sprinklers at center of 2 x 2 lay-in tiles or 2 x 2 portion of 2 x 4 lay-in tiles. Align sprinklers in a row when in gypsum board ceilings. All location tolerances shall be +/- 1/2"
- D. Refer to reflected ceiling plans for coordination with lights, diffusers, exit signs, etc.

END OF SECTION

260 100  
ELECTRICAL

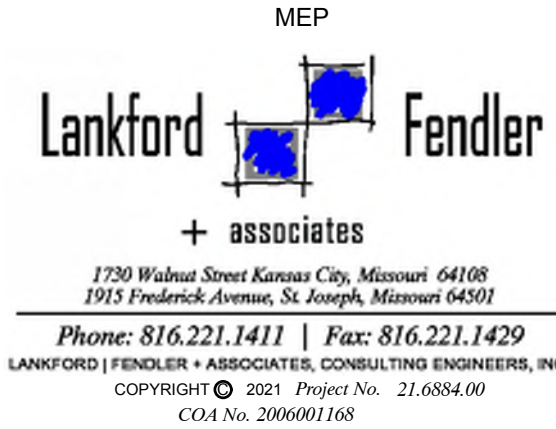
- 1.0 SCOPE:
- A. The work included under this contract consists of the furnishing of all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the electrical systems and other items herein listed, all as directed by the Architect or Engineer, which work is comprised of, but not limited to the following principal items:
1. Electrical system for light and power:
- a. Electrical service and distribution system revisions.
- b. Switches and panel boards.
- c. Systems of conduit, conductors, and boxes.
- d. Receptacles and wiring devices.
- e. Lighting fixtures and lamps.
- f. All systems, wiring and conduit as required.
- B. Raceway wiring systems shall be concealed in all finished parts of the building, where possible. Where the raceways are exposed, they shall be run parallel with the building walls in a neat and workmanlike manner. Should it appear necessary to expose any conduit or wiring in finished spaces, it shall be brought to the Architect's attention immediately and this Contractor shall rearrange associated work as directed to facilitate an approved installation. Contractor to coordinate with mechanical trades to avoid ductwork and piping.
- 2.0 RACEWAYS:
- A. All electrical conductors are to be installed in metal raceways, unless specifically specified or noted otherwise. Galvanized steel or intermediate steel conduit as permitted by code. No conduit smaller than 3/4" to be used. Use set screw type fittings. Provide flexible conduit connection for final connection to each motor not to exceed 3' in length and recessed lighting fixtures not to exceed 6' in length. All exposed raceways shall be installed with runs parallel and/or perpendicular with building walls. Fasten all rigid/non-flexible conduit every 8' and 2' from each box. Conduit shall be EMT where not subject to mechanical damage as permitted by National Electric Code (N.E.C.). EMT connectors and couplings 4" and smaller shall be compression type. Type MC Cable with ground wire is allowed in concealed spaces only, behind walls and above ceiling. Fasten all MC and or FMC every 4.5' feet and within 12" inches of conduit termination, excluding final connections to motors and lighting fixtures.
- B. Conduit bushings shall be provided and installed inside all disconnects, pull boxes, panelboards, switchboard or similar type equipment and where permitted by National Electric Code (N.E.C.).
- 3.0 WIRES AND CABLES:
- A. Electrical conductors, soft annealed copper with conductivity 98% of that of pure, stranded copper, 90 degree - 600V insulation and equal to General Cable Company. Wire and cable for all feeders, subfeeders, motor circuits and high ambient location type shall be THHN. All other branch circuit wiring shall be type XHHN or THHN. Minimum wire size shall be #12 gauge AWG. Control wiring may be #14 gauge.
- B. For conductors #4 or small use the following color-code:
- 208Y/120V, 3-phase: black, red, blue, white.
  - Green shall be used for ground wire conductor.
- C. For conductors larger than #4, Field-Applied, Color-Coding Conductor Tape can be applied in half-lapped turns for a minimum distance of 6 inches from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.
- D. Conductor Material Applications:
- a. Feeders: Copper; solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
- b. Feeders: Copper for feeders smaller than No. 4 AWG; copper or aluminum for feeders No. 4 AWG and larger. Conductors shall be solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
- c. Branch Circuits: Copper; Solid for No. 12 AWG and smaller; stranded for No. 10 AWG and larger.
- E. Conductor insulation and multi-conductor cable application and wiring methods:
- a. Service Entrance: Type THWN-2, single conductors in raceway.
- a. Exposed Feeders: Type THHN, single conductors in raceway.
- b. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspace: Type THHN, single conductors in raceway.
- c. Exposed Branch Circuits, Including in Crawlspace: Type THHN, single conductors in raceway.
- d. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN, single conductors in raceway.
- 4.0 GROUNDING:
- A. Ground all electrical apparatus in accordance with N.E.C. and as specified herein. Provide a separate grounding conductor for all lighting, receptacle and equipment circuits. All cabinets, switchboards, equipment cases, motor frames, interior metal cold water piping systems, and system neutral conductors shall be effectively grounded. Use solderless pressure type connectors, no perforated strap connectors will be allowed. Ensure continuous bond where flexible conduit is used. Provide bonding jumper inside all flexible conduit. Grounding per N.E.C. 250, and any local requirements.
- 5.0 SPLICE AND TAPS:
- A. Make splices at junction boxes, pull boxes, or outlet boxes only.
- 6.0 CABINETS, JUNCTION AND PULL BOXES:
- A. Flush or surface mounted as indicated on drawings. Provide where shown on drawings and where required by code. Construct of cold gauge steel for flush surface mounting.
- 7.0 OUTLET BOXES:
- A. General Electric, Appleton, Steel City or Raco hot dipped galvanized steel boxes, or equal. Install at terminal of each conduit run, each outlet, or device. Provide size, type and design to suit structural conditions. Adequate to accommodate size and number of raceways, conductors, device or fixture served. Provide plaster rings or covers on boxes where required on exposed work, use approved cast ferrous alloy outlet, junction boxes and fittings. Fixture or device cover shall completely conceal the size outlet box used. Install 3/8" fixture stud for lighting fixtures where required. Locate ceiling outlets to work with architectural features as directed. Switches installed 48" above floor on strike side of door as finally hung. Receptacles and telephone outlets, 18" above finished floor unless otherwise noted. Verify all outlet locations on job with Architect.
- 8.0 PANELBOARDS:
- A. Panel boards are as indicated on the drawings. Main lugs only unless noted or specified otherwise. Provide typewritten schedule of circuits in index cardholder. Provide with hinged door and hinged cover. All circuit breakers shall be bolt-on molded case and have positive "trip" indication. Breakers used on existing panels shall match existing units and shall be labeled to have positive "trip" indication. Breakers shall be labeled to indicate suite number and use. Panelboards shall be Square D, Siemens or Eaton/Cutler Hammer. All single pole circuit breakers shall be "switch duty rated". Panelboards shall be fully rated. Series rated panels are not permitted.
- 9.0 DISCONNECT SWITCHES:
- A. Heavy duty NEMA type '1HD' - same manufacturer as panelboards. Plastic nameplate properly engraved with name of equipment served, secured to switch cover. Fuses shall be Bussmann of sizes and types scheduled.
- 10.0 LABELING:
- A. Contractor shall label each and every J-box above ceiling with a permanent marker with panel and circuit number.
- B. Outlets, adhesive film label, machine printed clear background with black letters, by thermal transfer or equivalent process. Minimum letter height shall be 1/4 inch. Face plate shall be labeled with panel and circuit number.
- C. Interior equipment self-adhesive, engraved, laminated acrylic or melamine label; adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).
- D. Exterior equipment: Stenciled or engraved, laminated acrylic or melamine label: punched or drilled for screw mounting. White letters on a black background. Minimum letter height shall be 1 inch (25 mm).
- 11.0 WIRING DEVICES:
- A. Duplex receptacles shall be Hubbell #5352-X grounding type, 20A., 125V.; G.F.C.I. shall be Hubbell GF-5352-X, 20A., 125V.; duplex, G.F.C.I. TYPE. Isolated ground receptacles shall be orange in color, Hubbell IG-5352, 20A., 125V.; duplex. Isolated ground receptacles shall be equipped with a Hubbell IG-B plate, orange in color inscribed "Isolated Ground". Wall toggle switches shall be Hubbell Number 1221-X and Number 1223-X for single pole and three way types respectively. Other switch, receptacle, and outlet device variations shall be by Hubbell of "Spec. Grade" quality. Equivalent devices of P & S or Leviton will be acceptable in lieu of the above listed devices.
- B. All wiring devices shall be white in color.
- C. Motion sensor: contractor shall verify with owner for proper time delay settings.
- 12.0 LIGHTING FIXTURES:
- A. This Contractor shall furnish and install complete, unless otherwise specified, a lighting fixture on each and every lighting outlet shown on the drawings of each type scheduled by letter and description. All fixtures shall be equipped with lamps as scheduled or specified herein. All fixtures installed in suspended ceilings must be securely fastened to framing members per NEC 410-36b and local seismic code requirements.
- 13.0 FIRE ALARM SYSTEM:
- A. Fire alarm system shall be a delegated design, contractor shall be responsible for layout and design of the fire alarm system. Submit all necessary documentation including stamped and signed drawings to the authority having jurisdiction and obtain necessary permits for approval and installation of the system prior to submitting shop drawings.
- B. Engineer's drawings showing fire alarm devices are schematic, and only provide code intent, coordination, and all devices may not be indicated. Final layout shall be provided by the Fire Alarm contractor. Fire alarm contractor shall become the Designer of Record as such, the contractor shall be responsible to verify device layouts comply with all applicable codes and shall include in bid all cost associated with additional devices should they be required. Final layout shall be coordinated with the architect and plans.
- C. Contractor shall include in bid all cost associated with Fire alarm modifications.
- D. Fire alarm system shall be relocated or added for code compliance.
- E. All new equipment shall be ADA compliant, be by one manufacturer, and warranted for a minimum of one year.

END OF SECTION

GastingerWalker & Fendler

Construction Managers  
Interior Designers  
Architects  
817 Wyandotte  
Kansas City Missouri 64105 816.421.8200  
gastingerwalker.com

STRUCTURAL  
Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144



451 NW Murray Rd Renovation

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Lees Summit, MO 64081

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SPECIFICATIONS

MEP2



GastingerWalker &

Architects | Interior Designers | Construction Managers  
817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.com

STRUCTURAL  
Bob D. Campbell & Company  
4338 Bellevue Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford + Fendler  
+ associates  
1730 Walnut Street Kansas City, Missouri 64108  
1913 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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Lees Summit, MO 64081

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FIRST FLOOR PLAN-  
MECHANICAL DEMOLITION

M1

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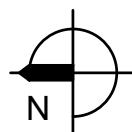
FLOOR PLAN NOTES

1. DISCONNECT AND REMOVE DUCTWORK, DIFFUSERS, HANGERS, ETC. WHERE INDICATED.
2. DISCONNECT AND REMOVE ROOFTOP UNIT.
3. DISCONNECT EXISTING THERMOSTAT AND WIRING.
4. REMAINING DUCTWORK, EXHAUST FANS, DIFFUSERS, ETC. TO REMAIN.



FIRST FLOOR PLAN-MECHANICAL DEMOLITION

SCALE: 1/8" = 1'-10"





GastingerWalker &

Architects | Interior Designers | Construction Managers  
817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.com

STRUCTURAL  
Bob D. Campbell & Company  
4338 Bellevue Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford + Fendler  
+ associates  
1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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FIRST FLOOR PLAN-MECHANICAL

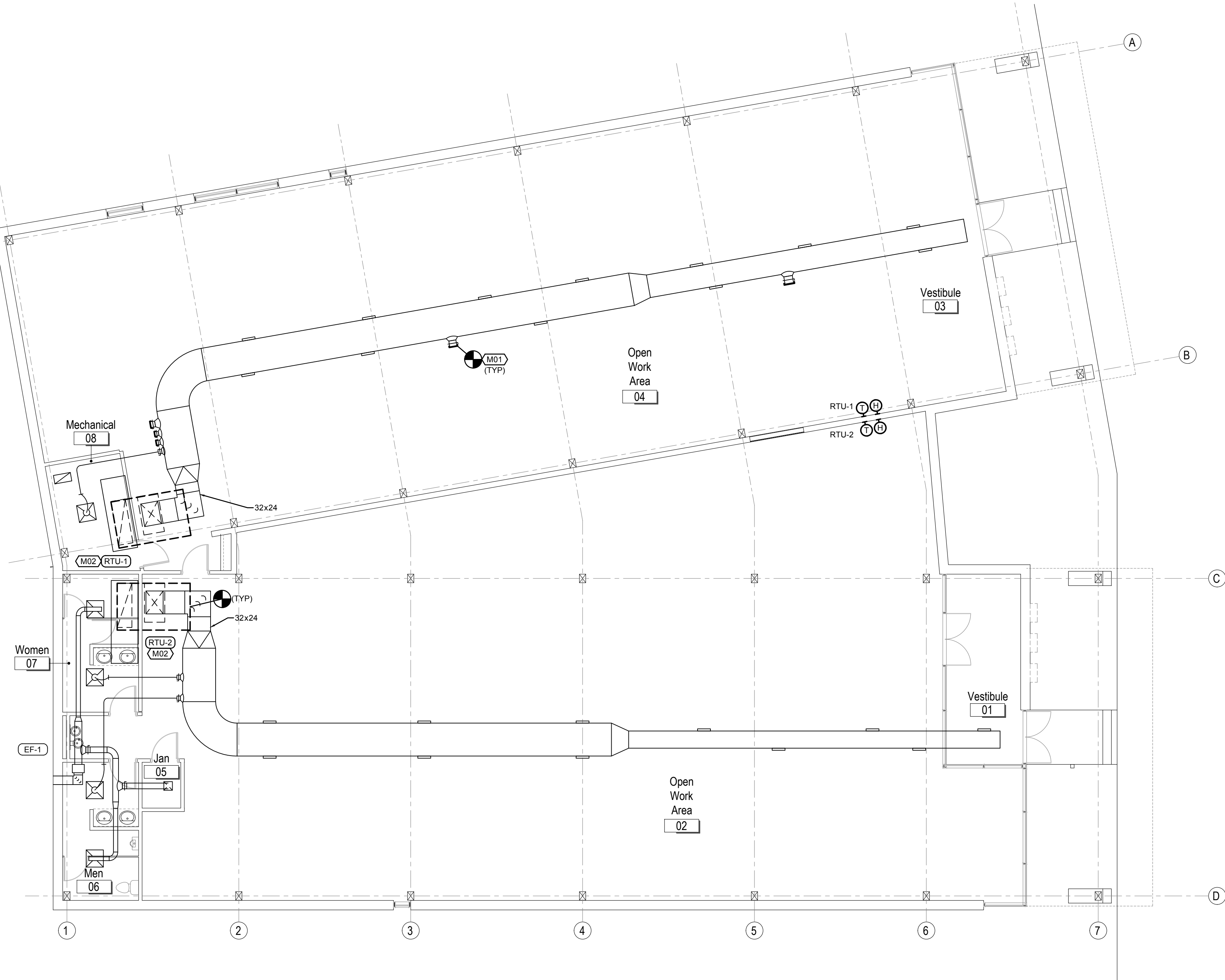
M2

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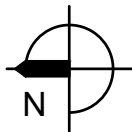
FLOOR PLAN NOTES

- CAP REMAINING TAPS AIRTIGHT.
- INSTALL CURB ADAPTER AND ROOFTOP UNIT PER MANUFACTURERS RECOMMENDATIONS.



FIRST FLOOR PLAN-MECHANICAL

SCALE: 1/8" = 1'-10"





STRUCTURAL  
Bob D. Campbell & Company  
4338 Bellevue Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford Fendler  
+ associates  
1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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MECHANICAL DETAILS

M3

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## ROOFTOP UNIT SCHEDULE

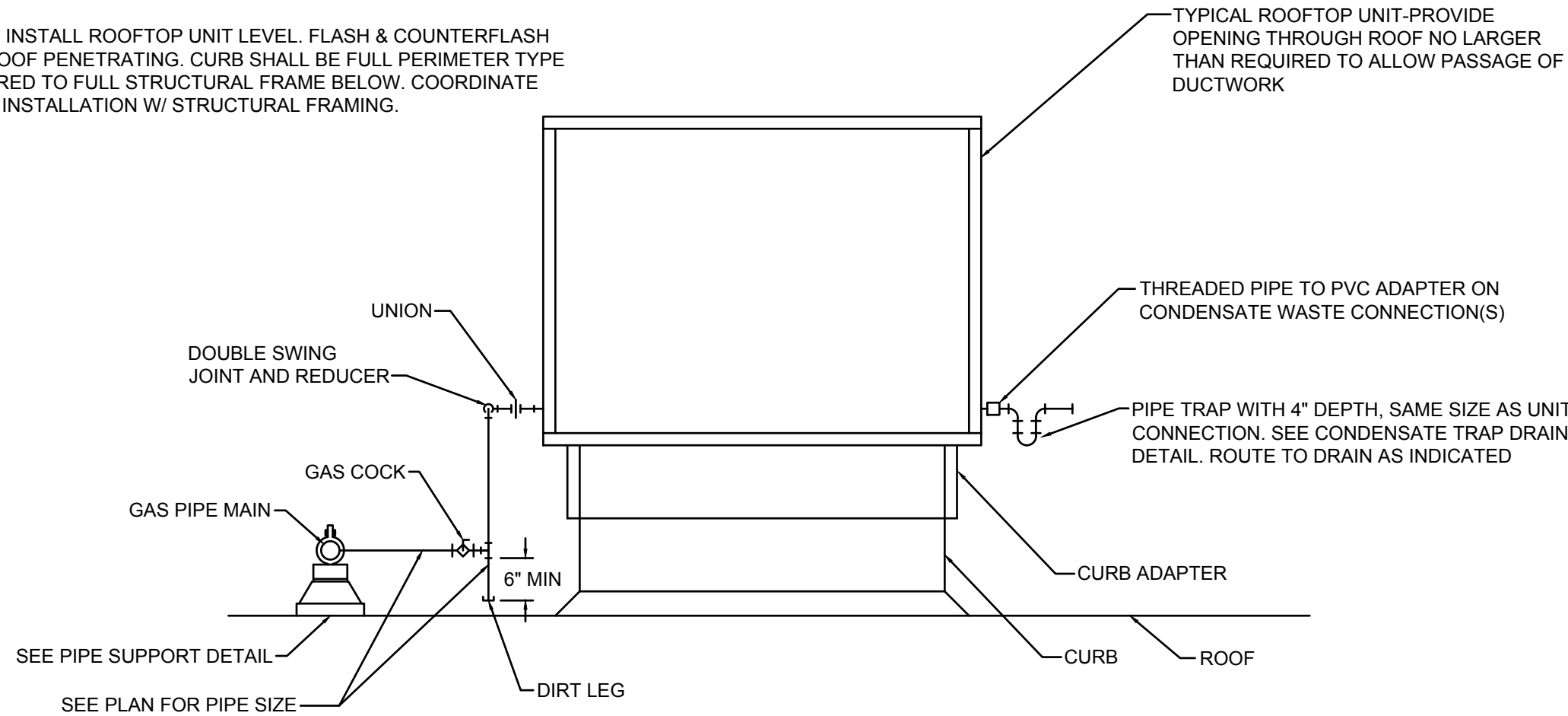
MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	MIN O.A. CFM	EXT. S.P. (IN W.G.)	FAN HP	FAN DRIVE TYPE	FAN TYPE	RPM	COOLING					TOTAL MBH	SENS. MBH	STAGES	EER	HEATING-GAS			ELECTRICAL			NOTES
										A.M.B. (°F)	E.D.B. (°F)	E.W.B. (°F)	L.O.B. (°F)	L.W.B. (°F)					INPUT MBH	OUTPUT MBH	STAGES	VOLT	ø	HZ	
RTU-1	TRANE	YHC210	6500	NOTE 8	1	5	BELT	FC	745	105	80	67	57.41	57.09	199.36	158.59	2	11.8	350	280	2	208	3	60	ALL
RTU-2	TRANE	YHC210	6500	NOTE 8	1	5	BELT	FC	745	105	80	67	57.41	57.09	199.36	158.59	2	11.8	350	280	2	208	3	60	ALL

NOTES:

1. PROVIDE WITH WALL MOUNTED 24/7 PROGRAMMABLE THERMOSTAT, HINGED ACCESS PANELS, DISCONNECT SWITCH.
2. PROVIDE WITH 2" MERV 8 FILTERS.
3. PROVIDE WITH HOT GAS REHEAT AND WALL MOUNTED HUMIDISTAT.
4. PROVIDE WITH ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL. INCLUDE WITH BAROMETRIC RELIEF DAMPER UNLESS NOT REQUIRED FOR UNITS EQUIPPED WITH POWERED EXHAUST.
5. PROVIDE WITH MULTI-SPEED SUPPLY FAN TO VARY FAN SPEED WITH COMPRESSOR STAGING ON UNITS WITH 2 STAGES OF COOLING. ADJUST OUTSIDE AIR DAMPER MINIMUM POSITION FOR HIGH AND LOW FAN SPEEDS.
6. PROVIDE WITH UNIT MOUNTED GFCI OUTLET WITH WEATHERPROOF COVER. OUTLET TO BE FIELD POWERED/WIRED FROM BUILDING POWER.
7. PROVIDE WITH CURB ADAPTER. FIELD VERIFY EXISTING CURB PRIOR TO ORDER.
8. UNOCCUPIED SPACE. NO VENTILATION AIR TO BE PROVIDED.
9. UNIT TO BE CONFIGURED FOR DOWNFLOW DISCHARGE.
10. PROVIDE NEW THERMOSTAT WITH NIGHT SETBACK AND 7-DAY SCHEDULING CAPABILITIES.

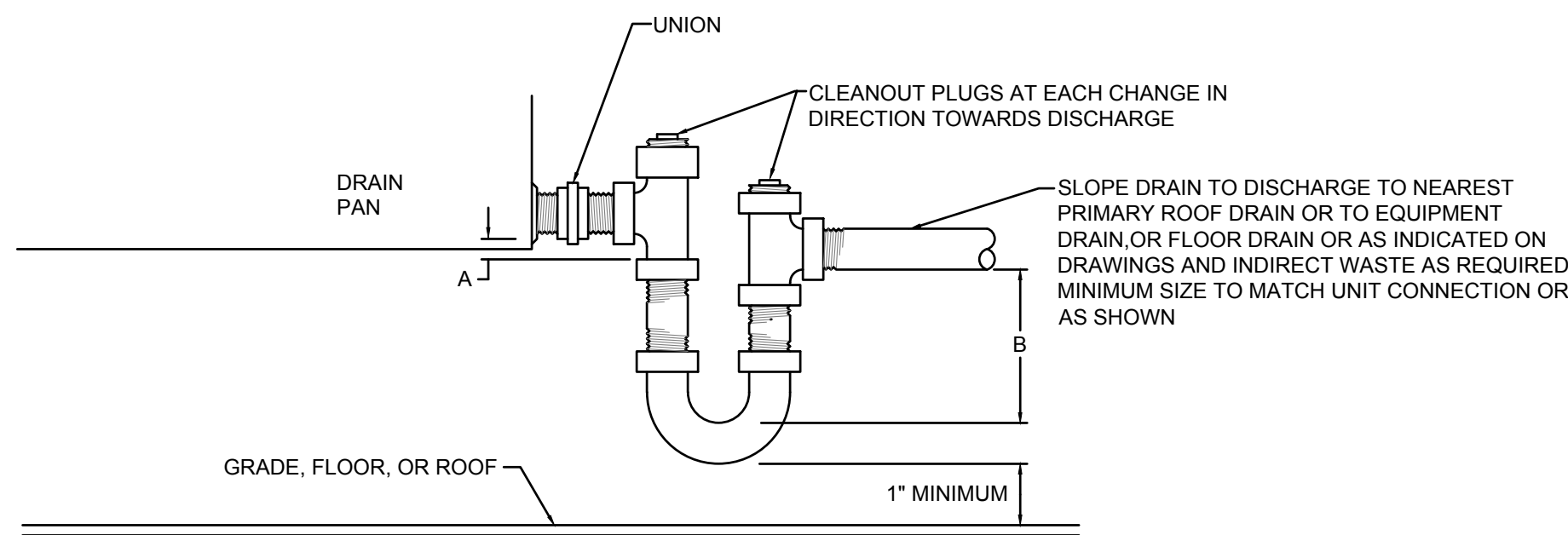
\*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED.

NOTE: INSTALL ROOFTOP UNIT LEVEL. FLASH & COUNTERFLASH ALL ROOF PENETRATING. CURB SHALL BE FULL PERIMETER TYPE SECURED TO FULL STRUCTURAL FRAME BELOW. COORDINATE CURB INSTALLATION W/ STRUCTURAL FRAMING.



## ROOFTOP UNIT CONNECTIONS DETAIL

NO SCALE



DIM. 'A'	DIM. 'A'	DIM. 'B'
BLOW THRU COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THRU COIL	FAN SUCTION STATIC PRESSURE + 1"	2-1/2"

NOTE: MINIMUM 'A' OR 'B' DIMENSION SHALL BE NOT LESS THAN 1".

## HVAC CONDENSATE TRAP DETAIL

NO SCALE



GastingerWalker &

Architects | Interior Designers  
817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.co

STRUCTURAL  
Bob D. Campbell & Company  
4338 Bellevue Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford + Fendler  
+ associates  
1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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FIRST FLOOR PLAN-  
PLUMBING DEMOLITION

P1

Project Number: 2021.375

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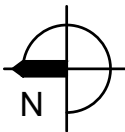
FLOOR PLAN NOTES

1. DISCONNECT AND REMOVE SINK, FAUCET AND ACCESSORIES IN ITS ENTIRETY. REMOVE WASTE PIPING TO BELOW FLOOR AND CAP.
2. REMOVE PIPING, HANGERS, ETC. WHERE INDICATED. CAP REMAINING PIPING. WATERTIGHT. INSULATE TO MATCH ADJACENT AND MAINTAIN VAPOR BARRIER.
3. REMOVE WASHER BOX AND ACCESSORIES IN ITS ENTIRETY.
4. EXISTING RESTROOM FIXTURES AND PIPING TO REMAIN.
5. EXISTING WATER HEATER TO REMAIN.
6. EXISTING RPZ TO REMAIN.
7. EXISTING GAS PIPING. METER NOT CURRENTLY INSTALLED. PREPARE PIPING FOR CONNECTION OF NEW. REMOVE PIPING AS REQUIRED. RE: NEW WORK PLAN FOR ADDITIONAL INFORMATION.
8. DISCONNECT GAS PIPING FROM ROOFTOP UNITS.

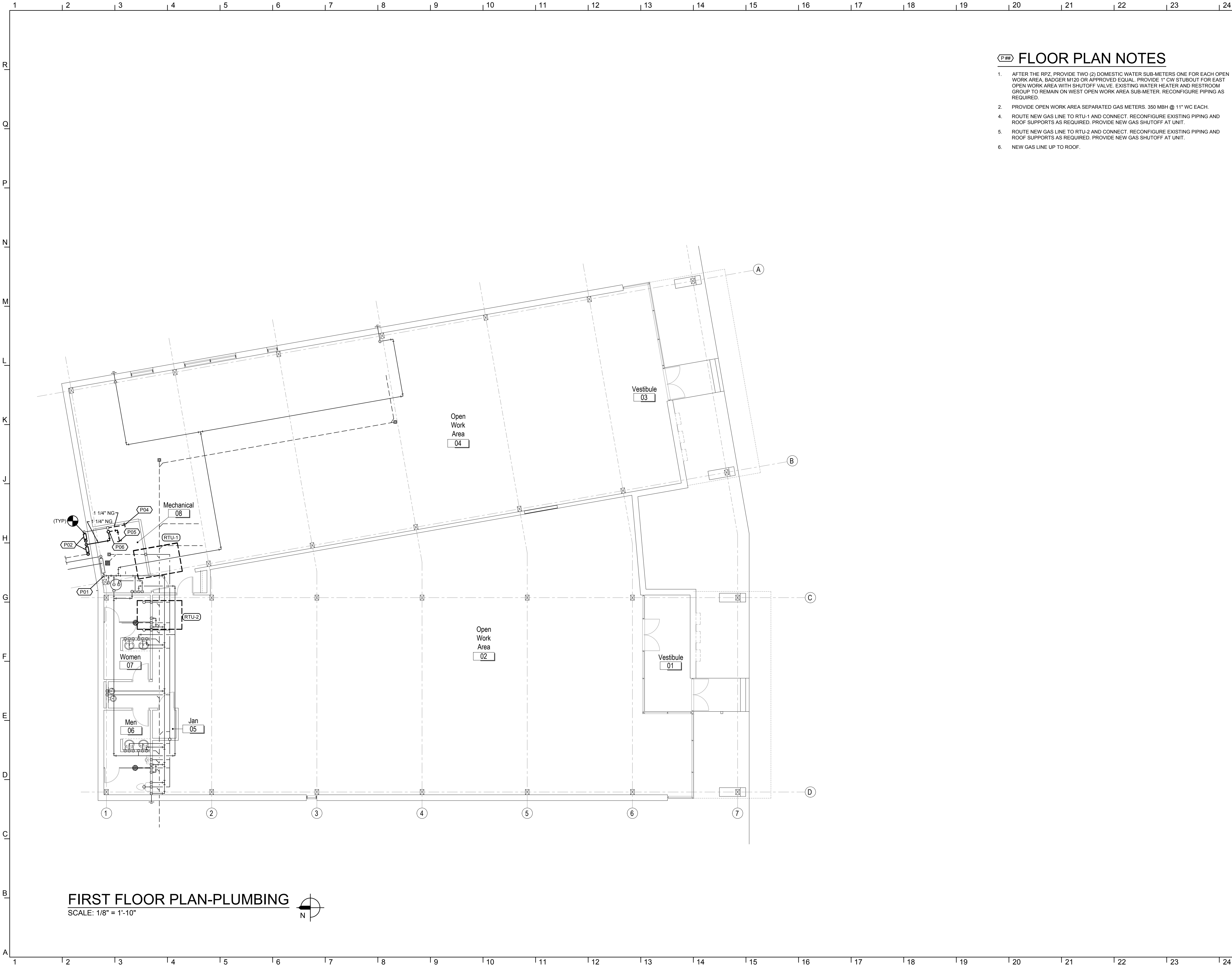


FIRST FLOOR PLAN-PLUMBING DEMOLITION

SCALE: 1/8" = 1'-10"

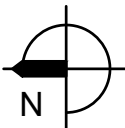






FIRST FLOOR PLAN-PLUMBING

SCALE: 1/8" = 1'-10"



FLOOR PLAN NOTES

- AFTER THE RPZ, PROVIDE TWO (2) DOMESTIC WATER SUB-METERS ONE FOR EACH OPEN WORK AREA, BADGER M120 OR APPROVED EQUAL. PROVIDE 1" CW STUBOUT FOR EAST OPEN WORK AREA WITH SHUTOFF VALVE. EXISTING WATER HEATER AND RESTROOM GROUP TO REMAIN ON WEST OPEN WORK AREA SUB-METER. RECONFIGURE PIPING AS REQUIRED.
- PROVIDE OPEN WORK AREA SEPARATED GAS METERS. 350 MBH @ 11" WC EACH.
- ROUTE NEW GAS LINE TO RTU-1 AND CONNECT. RECONFIGURE EXISTING PIPING AND ROOF SUPPORTS AS REQUIRED. PROVIDE NEW GAS SHUTOFF AT UNIT.
- ROUTE NEW GAS LINE TO RTU-2 AND CONNECT. RECONFIGURE EXISTING PIPING AND ROOF SUPPORTS AS REQUIRED. PROVIDE NEW GAS SHUTOFF AT UNIT.
- NEW GAS LINE UP TO ROOF.

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As Noted on Plans Review  
Development Services Department  
Lee's Summit, Missouri  
10/29/2021  
Architects | Interior Designers | Construction Managers  
817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.com

STRUCTURAL  
Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford + Fendler  
+ associates  
1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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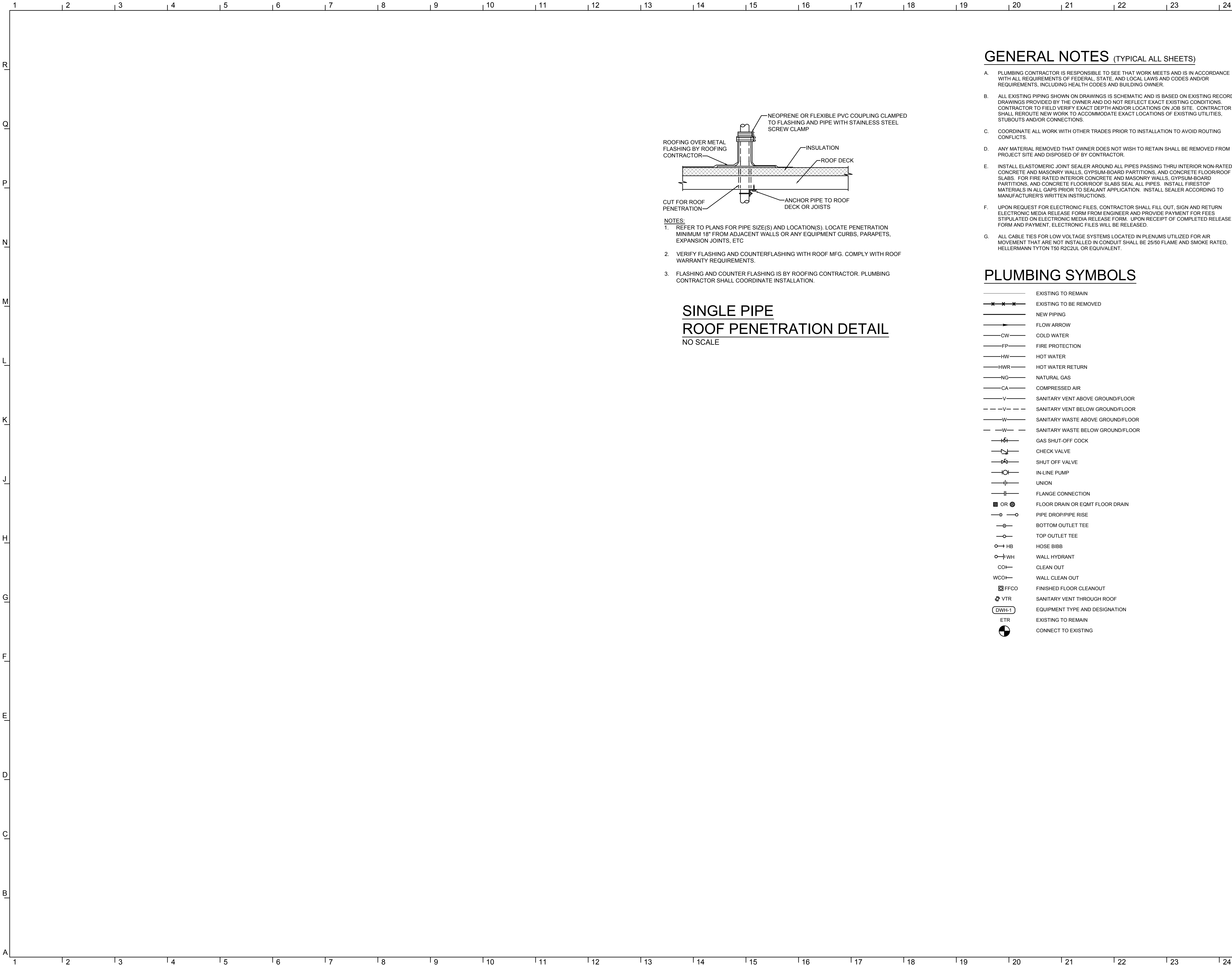
FIRST FLOOR PLAN-  
PLUMBING

P2

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GENERAL NOTES (TYPICAL ALL SHEETS)

- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- D. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- E. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- F. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- G. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50 R2C2UL OR EQUIVALENT.

PLUMBING SYMBOLS

—	EXISTING TO REMAIN
— x — x — x	EXISTING TO BE REMOVED
—	NEW PIPING
→	FLOW ARROW
— CW —	COLD WATER
— FP —	FIRE PROTECTION
— HW —	HOT WATER
— HWR —	HOT WATER RETURN
— NG —	NATURAL GAS
— CA —	COMPRESSED AIR
— V —	SANITARY VENT ABOVE GROUND/FLOOR
— — V — —	SANITARY VENT BELOW GROUND/FLOOR
— W —	SANITARY WASTE ABOVE GROUND/FLOOR
— — W — —	SANITARY WASTE BELOW GROUND/FLOOR
— S —	GAS SHUT-OFF COCK
— V —	CHECK VALVE
— S —	SHUT OFF VALVE
— O —	IN-LINE PUMP
— U —	UNION
— F —	FLANGE CONNECTION
■ OR ●	FLOOR DRAIN OR EQMT FLOOR DRAIN
— D —	PIPE DROP/PIPE RISE
— B —	BOTTOM OUTLET TEE
— T —	TOP OUTLET TEE
— H —	HOSE BIBB
— W —	WALL HYDRANT
— C —	CLEAN OUT
— W —	WALL CLEAN OUT
— F —	FINISHED FLOOR CLEANOUT
— V —	SANITARY VENT THROUGH ROOF
— D —	EQUIPMENT TYPE AND DESIGNATION
— E —	EXISTING TO REMAIN
— C —	CONNECT TO EXISTING

GastingerWalker &

Construction Managers  
816.421.8200  
gastingerwalker.com

Interior Designers  
Kansas City Missouri 64105 816.421.8200  
gastingerwalker.com

Architects  
817 Wyandotte

STRUCTURAL  
Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP

Lankford Fendler

+ associates

1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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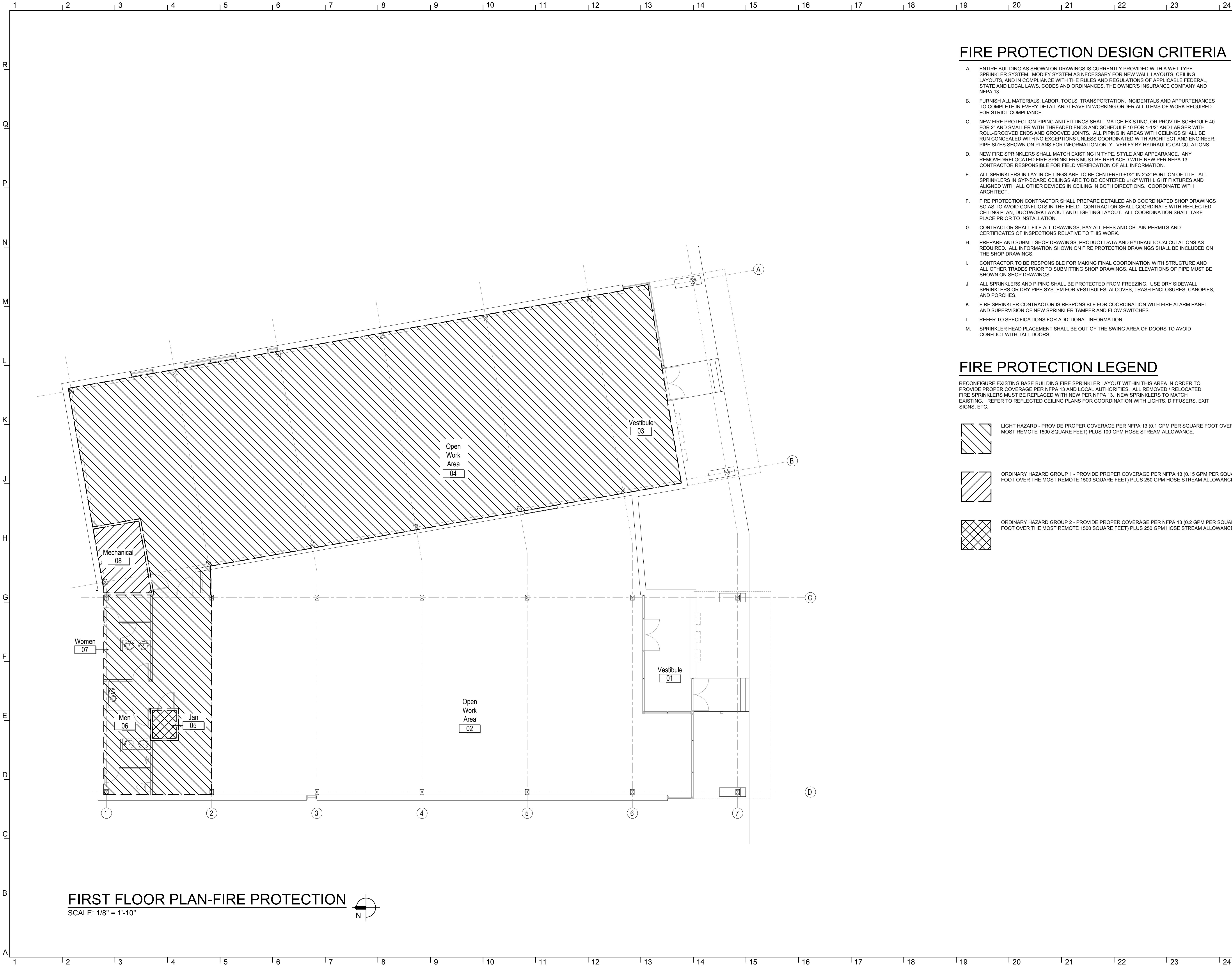
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PLUMBING DETAILS

P3



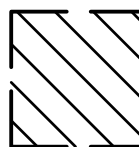


## FIRE PROTECTION DESIGN CRITERIA

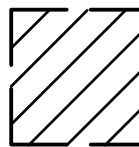
- ENTIRE BUILDING AS SHOWN ON DRAWINGS IS CURRENTLY PROVIDED WITH A WET TYPE SPRINKLER SYSTEM. MODIFY SYSTEM AS NECESSARY FOR NEW WALL LAYOUTS, CEILING LAYOUTS, AND IN COMPLIANCE WITH THE RULES AND REGULATIONS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES, THE OWNER'S INSURANCE COMPANY AND NFPA 13.
- FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE.
- NEW FIRE PROTECTION PIPING AND FITTINGS SHALL MATCH EXISTING, OR PROVIDE SCHEDULE 40 FOR 2" AND SMALLER WITH THREADED ENDS AND SCHEDULE 10 FOR 1 1/2" AND LARGER WITH ROLL-GROOVED ENDS AND GROOVED JOINTS. ALL PIPING IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED WITH NO EXCEPTIONS UNLESS COORDINATED WITH ARCHITECT AND ENGINEER. PIPE SIZES SHOWN ON PLANS FOR INFORMATION ONLY. VERIFY BY HYDRAULIC CALCULATIONS.
- NEW FIRE SPRINKLERS SHALL MATCH EXISTING IN TYPE, STYLE AND APPEARANCE. ANY REMOVED/RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. CONTRACTOR RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION.
- ALL SPRINKLERS IN LAY-IN CEILINGS ARE TO BE CENTERED  $\pm 1/2"$  IN  $2' \times 2'$  PORTION OF TILE. ALL SPRINKLERS IN GYP-BOARD CEILINGS ARE TO BE CENTERED  $\pm 1/2"$  WITH LIGHT FIXTURES AND ALIGNED WITH ALL OTHER DEVICES IN CEILING IN BOTH DIRECTIONS. COORDINATE WITH ARCHITECT.
- FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH REFLECTED CEILING PLAN, DUCTWORK LAYOUT AND LIGHTING LAYOUT. ALL COORDINATION SHALL TAKE PLACE PRIOR TO INSTALLATION.
- CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK.
- PREPARE AND SUBMIT SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS AS REQUIRED. ALL INFORMATION SHOWN ON FIRE PROTECTION DRAWINGS SHALL BE INCLUDED ON THE SHOP DRAWINGS.
- CONTRACTOR TO BE RESPONSIBLE FOR MAKING FINAL COORDINATION WITH STRUCTURE AND ALL OTHER TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. ALL ELEVATIONS OF PIPE MUST BE SHOWN ON SHOP DRAWINGS.
- ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.
- FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPER AND FLOW SWITCHES.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL DOORS.

## FIRE PROTECTION LEGEND

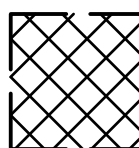
RECONFIGURE EXISTING BASE BUILDING FIRE SPRINKLER LAYOUT WITHIN THIS AREA IN ORDER TO PROVIDE PROPER COVERAGE PER NFPA 13 AND LOCAL AUTHORITIES. ALL REMOVED / RELOCATED FIRE SPRINKLERS MUST BE REPLACED WITH NEW PER NFPA 13. NEW SPRINKLERS TO MATCH EXISTING. REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.



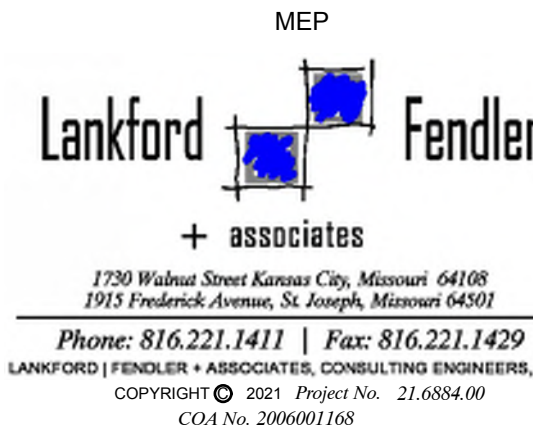
LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FEET) PLUS 100 GPM HOSE STREAM ALLOWANCE.



ORDINARY HAZARD GROUP 1 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FEET) PLUS 250 GPM HOSE STREAM ALLOWANCE.



ORDINARY HAZARD GROUP 2 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.2 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FEET) PLUS 250 GPM HOSE STREAM ALLOWANCE.



STRUCTURAL  
Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford + associates  
1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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FIRST FLOOR PLAN- FIRE PROTECTION

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Architects | Interior Designers | Construction Managers  
817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.co

STRUCTURAL  
Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford + Fendler  
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FIRST FLOOR PLAN-  
ELECTRICAL DEMOLITION

E1

GENERAL DEMOLITION NOTES

- DEMOLITION WORK SHALL BE PERFORMED BY DEMOLITION CONTRACTOR, INCLUDING LOW VOLTAGE WORK.
- ABANDONED COMMUNICATIONS CABLING SHALL BE REMOVED IN IT'S ENTIRETY.
- CIRCUITS NOT BEING REUSED SHALL BE LABELED AS "SPARE" IN THE PANEL DIRECTORY.

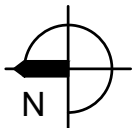
FLOOR PLAN NOTES

- UNLESS NOTED OTHERWISE, EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED WITHIN SPACE, INCLUDING BUT NOT LIMITED TO: RECEPTACLES, TELECOMMUNICATIONS OUTLETS, FLOOR BOXES, LIGHT FIXTURES, LIGHTING CONTROL DEVICES, FIRE ALARM, POWER CONNECTIONS TO MECHANICAL EQUIPMENT TO BE REMOVED, POWER CONNECTIONS TO PLUMBING EQUIPMENT TO BE REMOVED AND JUNCTION BOXES. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- EXISTING ELECTRICAL EQUIPMENT IN THIS ROOM TO REMAIN, CIRCUIT TO BE DISCONNECTED FROM EXISTING PANEL "P1" THEN RECONNECTED TO NEW HOUSE PANEL "HP".
- WATER FOUNTAIN AND ELECTRICAL CONNECTION TO WATER FOUNTAIN TO REMAIN, CIRCUIT WILL BE DISCONNECTED FROM EXISTING PANEL "P1" TO NEW HOUSE PANEL "HP".
- FIRE ALARM PANEL TO BE REMOVED AND RELOCATED, REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE, EXISTING BREAKER TO BE RELOCATED.
- EXISTING RTU TO BE REMOVED, ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
- EXISTING WATER HEATER TO REMAIN, DISCONNECT WIRING FROM EXISTING PANEL P1 THEN RECONNECT TO NEW HOUSE PANEL "HP".
- EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED.
- FLOOR BOX TO BE REMOVED, REMOVE WIRING BACK TO SOURCE, UNDERGROUND CONDUIT TO REMAIN, TO BE CONFIRMED WITH TI DRAWINGS.
- EXISTING LIGHT FIXTURES INTENDED TO REMAIN.



FIRST FLOOR PLAN-ELECTRICAL DEMOLITION

SCALE: 1/8" = 1'-10"





GastingerWalker &

Architects  
Interior Designers  
Construction Managers  
817 Wyandotte  
Kansas City, Missouri 64105 816.421.8200  
gastingerwalker.co

STRUCTURAL  
Bob D. Campbell & Company  
4338 Belleview Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
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+ associates  
1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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FIRST FLOOR PLAN-  
POWER

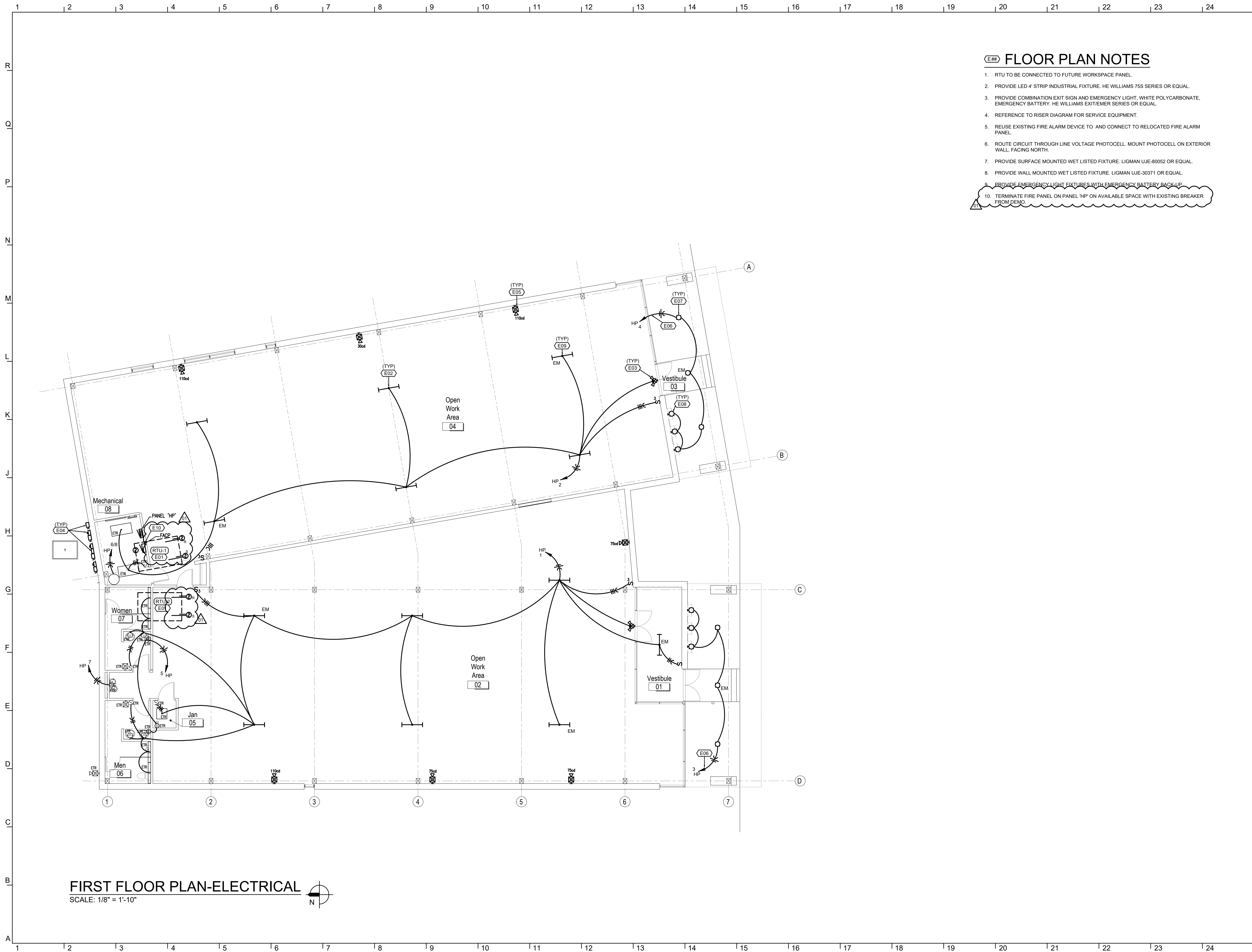
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### FLOOR PLAN NOTES

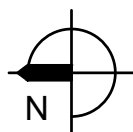
- RTU TO BE CONNECTED TO FUTURE WORKSPACE PANEL.
- PROVIDE LED 4' STRIP INDUSTRIAL FIXTURE. HE WILLIAMS 75S SERIES OR EQUAL.
- PROVIDE COMBINATION EXIT SIGN AND EMERGENCY LIGHT. WHITE POLYCARBONATE. EMERGENCY BATTERY. HE WILLIAMS EXTI/EMER SERIES OR EQUAL.
- REFERENCE TO RISER DIAGRAM FOR SERVICE EQUIPMENT.
- REUSE EXISTING FIRE ALARM DEVICE TO AND CONNECT TO RELOCATED FIRE ALARM PANEL.
- ROUTE CIRCUIT THROUGH LINE VOLTAGE PHOTOCELL. MOUNT PHOTOCELL ON EXTERIOR WALL, FACING NORTH.
- PROVIDE SURFACE MOUNTED WET LISTED FIXTURE. LIGMAN UJE-80052 OR EQUAL.
- PROVIDE WALL MOUNTED WET LISTED FIXTURE. LIGMAN UJE-30371 OR EQUAL.
- PROVIDE EMERGENCY LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP
- TERMINATE FIRE PANEL ON PANEL 'HP' ON AVAILABLE SPACE WITH EXISTING BREAKER FROM DEMO.

01



### FIRST FLOOR PLAN-ELECTRICAL

SCALE: 1/8" = 1'-10"





STRUCTURAL  
Bob D. Campbell & Company  
4338 Bellevue Rd  
Kansas City, Missouri 64111  
816.531.4144

MEP  
Lankford Fendler  
+ associates  
1730 Walnut Street Kansas City, Missouri 64108  
1915 Frederick Avenue, St. Joseph, Missouri 64501  
Phone: 816.221.1411 | Fax: 816.221.1429  
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ELECTRICAL DETAILS

E3

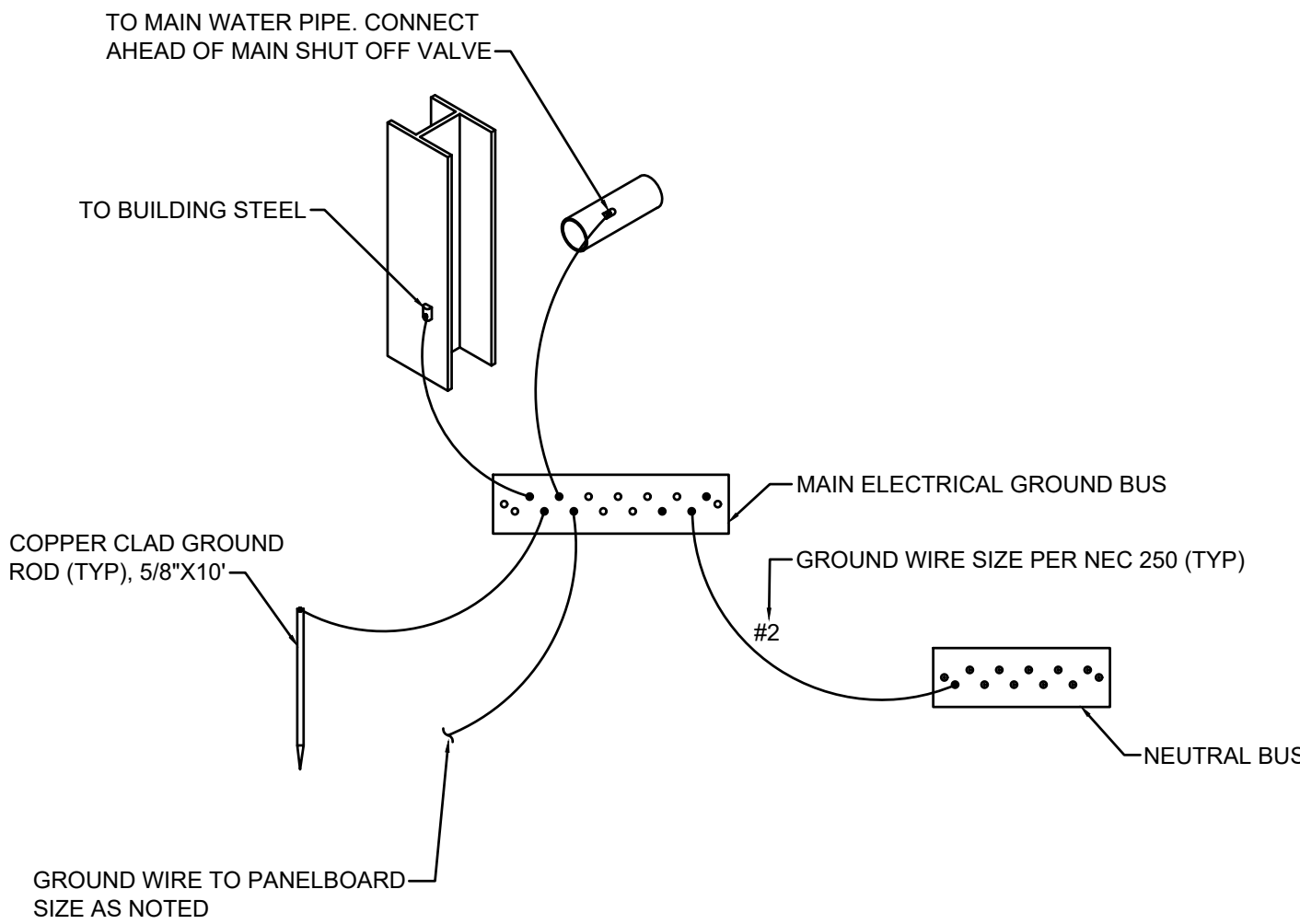
NEW PANELBOARD HP SCHEDULE														RATING: 22000 A.I.C.									
SERVICE: 208/120 VOLT, 3 - PHASE, 4 - WIRE														LOCATION: _									
AMP FRAME: 100 AMP																							
MAINS: MCB / 100 AMP MAIN BREAKER																							
MOUNTING: SURFACE																							
REV NO.	NOTE NO.	LOAD CRT#	DESCRIPTION	BRKR P	AMP	LOAD KVA				3PH	LOAD CRT#	DESCRIPTION	BRKR P	AMP	LOAD KVA				3PH	NOTE NO.	REV NO.		
		1	LIGHTING SPACE ONE	1	20	0.4					2	LIGHTING SPACE TWO	1	20	0.4								
		3	EXTERIOR LIGHTING SPACE ONE	1	20		0.4				4	EXTERIOR LIGHTING SPACE TWO	1	20		0.4							
		5	RESTROOM/JANITOR RCPT	1	20			0.54			6	WATER HEATER	2	30			1.7						
		7	WATER FOUNTAIN RCPT	1	20	0.18					8				1.7								
		9	SPARE	1	20						10	SPARE	1	20									
		11	SPARE	1	20						12	SPARE	1	20									
		13	SPARE	1	20						14	SPARE	1	20									
		15	SPARE	1	20						16	SPARE	1	20									
		17	SPARE	1	20						18	SPARE	1	20									
		19	SPARE	1	20						20	SPARE	1	20									
		21	SPARE	1	20						22	SPARE	1	20									
		23	SPARE	1	20						24	SPARE	1	20									
		25		1	20						26		1	20									
		27		1	20						28		1	20									
		29		1	20						30		1	20									
TOTAL:						0.58	0.4	0.54	0	TOTAL:						2.1	0.4	1.7	0.0				
																0.58	0.4	0.54	0.0				
																2.68	0.8	2.24	0.0				
																22.3	6.7	18.7					
NOTES:														KVA / PHASE TOTAL:									
1														AMP / PHASE TOTAL:									
														TOTAL CONNECTED LOAD: 5.72 KVA									
														TOTAL CONNECTED CURRENT: 15.88 AMPS									
														LIGHTS @ 125%: 2.00 KVA									
														RECEPTACLES @ 100%: 0.72 KVA									
														RECEPTACLES @ 50%: 0.00 KVA									
														LARGEST MOTOR LOAD @ 125%: 0.00 KVA									
														CONTINUOUS LOAD @ 125%: 0.00 KVA									
														OTHER AND NON-CONTINUOUS LOADS @ 100%: 0.00 KVA									
														TOTAL DEMAND LOAD: 4.42 KVA									
														POWER FACTOR: 0.95 % PF									
														TOTAL DEMAND CURRENT: 12.91 AMPS									
E = EXISTING BREAKER/INDEX/LOAD (ESTIMATED)																							
REV:																							
GENERAL NOTE:																							
CONDUCTOR & CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS																							

### BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART\*

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

- \* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- \* = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.
- \* = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

- NOTES:
- ALL WIRING SHALL BE TYPE THHN/THWN
  - MAIN GROUND RODS ARE TO BE LOCATED AT SERVICE ENTRANCE WITH SIZE AND QUANTITY PER SPECIFICATIONS.
  - EQUIPMENT GROUNDING CONDUCTORS SMALLER THAN 6 AWG SHALL BE PROTECTED PER NEC 250.120(C)



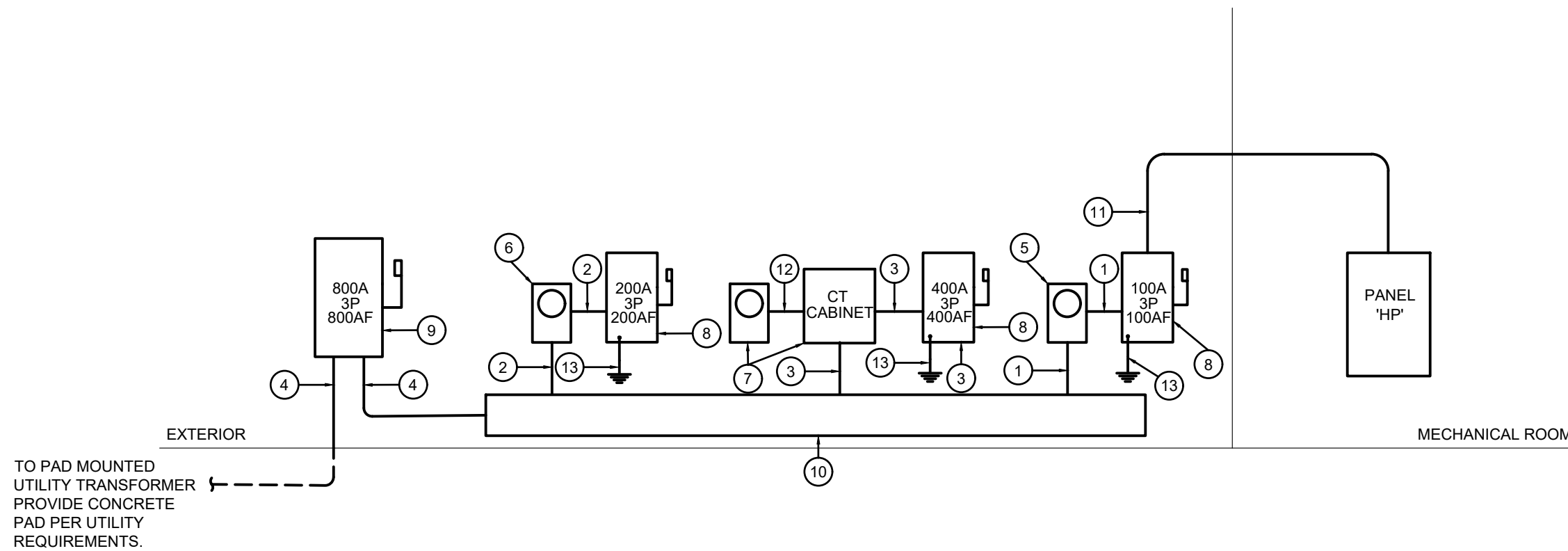
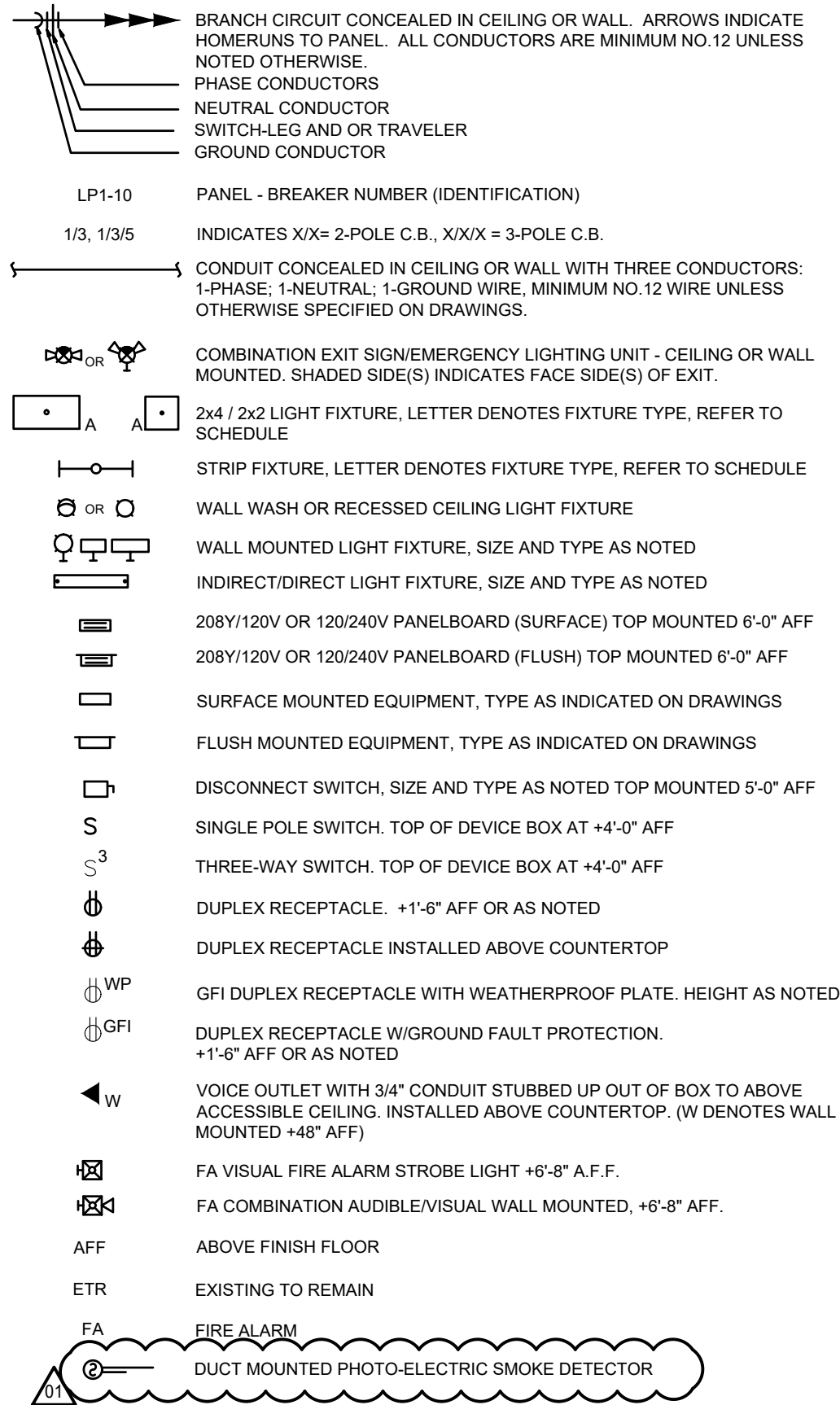
### MAIN SERVICE ENTRANCE GROUNDING DETAIL

NO SCALE

### GENERAL NOTES (TYPICAL ALL SHEETS)

- ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.
- NEW CIRCUITRY SHOWN FOR NEW/EXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.
- PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.
- CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.
- EXISTING RECEPTACLES AND SWITCHES TO REMAIN EXCEPT THOSE THAT ARE CHIPPED, BROKEN OR DAMAGED IN ANY OTHER WAY SHALL BE REPLACED TO MATCH EXISTING.
- SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.
- CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.
- CLEAN AND CHECK ALL EXISTING LIGHT FIXTURES FOR PROPER OPERATION AND REPLACE ANY BROKEN SOCKETS, LENS, LOUVERS, OR DEFECTIVE BALLAST. RELAMP ALL EXISTING FIXTURES WITH NEW LAMPS.
- THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID ALL COSTS ASSOCIATED WITH FIRE ALARM MODIFICATIONS. THIS WORK SHALL INCLUDE POWER EXTENDER PANEL, SMOKE DETECTORS, HORN/STROBES, PULL STATIONS, REMOTE INDICATING LIGHTS AND ANY OTHER FIRE ALARM WORK SHOWN ON PLANS. ALL WIRING, PLENUM RATED CABLING, BETWEEN DEVICES SHALL BE INCLUDED IN WORK TO PROVIDE AN OPERATIONAL EXTENSION OF THE EXISTING FIRE ALARM SYSTEM.
- CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.
- CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY. PER N.E.C.
- INSTALL FIRE ALARM DEVICES THAT COMPLY WITH APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO THE FAIR HOUSING ACT, NFPA, UL, ADA, IBC OR ANY OTHER AUTHORITIES HAVING JURISDICTION.
- FIRE ALARM CONTRACTOR IS RESPONSIBLE OF TESTING AND VERIFYING THAT THE AUDIBILITY OF THE FIRE ALARM SYSTEM MEETS A MINIMUM OF 15 DBA ABOVE AMBIENT NOISE LEVELS. AFTER INSTALLATION AND BEFORE CERTIFICATE OF OCCUPANCY. ADD HORNS WHERE REQUIRED TO MAINTAIN MINIMUM LEVELS.

### ELECTRICAL SYMBOLS



### RISER DIAGRAM

NO SCALE

### RISER NOTES

- PROVIDE 100 AMP FEEDER: 1-1/2"C, 4-#1.
- PROVIDE 200 AMP FEEDER: 2" C, (4)#3/0.
- PROVIDE 400 AMP FEEDER: (2) SETS OF 2-1/2"C, 4-#3/0.
- PROVIDE 800 AMP SERVICE: (3) SETS OF 3"C, 4-#300.
- PROVIDE 100 AMP, 120/208 VOLT, 3 PHASE, UTILITY METER SOCKET PER UTILITY COMPANY STANDARDS. GROUND PER UTILITY COMPANY STANDARDS.
- PROVIDE 200 AMP, 120/208 VOLT, 3 PHASE, UTILITY METER SOCKET PER UTILITY COMPANY STANDARDS. GROUND PER UTILITY COMPANY STANDARDS.
- PROVIDE 400 AMP, 120/208 VOLT, 3 PHASE, UTILITY METER SOCKET AND CT CABINET PER UTILITY COMPANY STANDARDS. GROUND PER UTILITY COMPANY STANDARDS.
- PROVIDE FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE. PROVIDE WITH CLASS J FUSES.
- PROVIDE FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE. PROVIDE WITH CLASS L FUSES. GROUND PER UTILITY COMPANY STANDARDS.
- PROVIDE NEMA 3R GUTTER WIREWAY. SPLICE INCOMING SERVICE CONDUCTORS TO HOUSE AND FUTURE SERVICE CONDUCTORS WITHIN WIREWAY. GROUND PER UTILITY COMPANY STANDARDS.
- PROVIDE 100 AMP SERVICE: 1-1/2"C, 4-#1, 1-#8 GROUND.
- PROVIDE 1-1/4"C FOR UTILITY METERING CABLES PER UTILITY COMPANY STANDARDS.
- REFER TO SERVICE GROUNDING DETAIL.