



2400 5th Avenue S, Suite 200 | Birmingham, Alabama 35233
Tel 205.879.4462 | GMCNETWORK.COM

TRANSMITTAL COVER SHEET

DATE: NOVEMBER 8, 2023
TO: ALL PLAN HOLDERS OF RECORD
FROM: HUNTER SWATEK, PROJECT MANAGER
PROJECT: LAUDERDALE COUNTY INNOVATION CENTER
GMC PROJECT NO. ABHM210017
RE: ADDENDUM NO. 4 AND
ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. 4

ACKNOWLEDGEMENT OF RECEIPT:

PLEASE PRINT RECIPIENT'S NAME, FIRM, AND DATE RECEIVED.

THEN E-MAIL BACK TO alyssa.martin@gmcnetwork.com FOR OUR RECORDS AND
TO ACKNOWLEDGE YOU'RE RECEIPT OF THIS ADDENDUM.

NAME (PLEASE PRINT)

FIRM (PLEASE PRINT)

DATE RECEIVED (PLEASE PRINT)

If there are any problems with this transmittal, please contact sender, at the number listed above.

ADDENDUM NUMBER 04

November 8, 2023

**PROJECT: LAUDERDALE COUNTY INNOVATION CENTER
GMC PROJECT NO. ABHM210017**

AD4-1 GENERAL:

- A. The following revisions and/or additions to the Drawings and Project Manual are hereby made a part of same, and shall be incorporated in the Work of the Contract the same as if originally included in the Bid and Construction Documents.
- B. Bidders shall acknowledge receipt of this Addendum in writing, as provided on the Proposal Form.
- C. When a revision and/or addition is called for to the Drawings or Project Manual, they shall be fully coordinated with and carried through all applicable Drawings and portions of the Project Manual, including in part, all related Civil, Landscaping, Architectural, Structural, Plumbing, Mechanical, Electrical, and other Documents.

AD4-2 PROJECT MANUAL AND SPECIFICATIONS:

- A. Reference Section **00 0500 Advertisement-for-Prequalifications and Bids** and replace with attached document in its entirety.
- B. Reference **Section 22 0440 Plumbing Fixtures** and replace with attached documents in its entirety.

AD4-3 DRAWINGS:

- A. Bernhard TME Addendum 04 scope of change sheet dated November 3, 2023
- B. Reference Sheet P0.01 LEGENDS, NOTES, AND SCHEDULES – PLUMBING and replace with attached document in its entirety
- C. Reference Sheet P1.02 PART A-FLOOR PLAN - PLUMBING PIPING and replace with attached document in its entirety.
- D. Reference Sheet P1.04 PART C & D-FLOOR PLANS - PLUMBING PIPING and replace with attached document in its entirety.
- E. Reference Sheet P2.03 PART B - ROOF PLAN - PLUMBING PIPING and replace with attached document in its entirety.
- F. Reference Sheet P2.04 PART C & D - ROOF PLANS - PLUMBING PIPING and replace with attached document in its entirety.
- G. Reference Sheet P2.07 PARTIAL FLOOR PLANS – PLUMBING PIPING and replace with attached document in its entirety.
- H. Reference Sheet P2.09 PARTIAL FLOOR PLANS – COSMETOLOGY PLUMBING and replace with attached document in its entirety.
- I. Reference Sheet P3.02 RISER – SANITARY CONT. and replace with attached document in its entirety.
- J. Reference Sheet P3.04 RISER – SANITARY CONT. and replace with attached document in its entirety.
- K. Reference Sheet P3.07 RISER – DOMESTIC and replace with attached document in its entirety.
- L. Reference Sheet P3.08 RISER – DOMESTIC CONT. and replace with attached document in its entirety.

AD4-4 MISCELLANEOUS:

- A. Pre-Bid meeting minutes and sign-in sheet.

AD4-5 ATTACHMENTS:

- A. Addendum Acknowledgement
- B. Pre-Bid Sign-in Sheet
- C. Pre-Bid Meeting Agenda with notes
- D. Section 00 0500 Advertisement-for-Prequalifications and Bids
- E. Section 22 0440 Plumbing Fixtures
- F. Bernhard TME Addendum 04 scope sheet
- G. Sheet P0.01 LEGENDS, NOTES, AND SCHEDULES – PLUMBING
- H. Sheet P1.02 PART A – FLOOR PLAN – PLUMBING PIPING
- I. Sheet P1.04 PART C & D-FLOOR PLANS – PLUMBING PIPING
- J. Sheet P2.03 PART B – ROOF PLAN – PLUMBING PIPING
- K. Sheet P2.04 PART C & D – ROOF PLANS – PLUMBING PIPING
- L. Sheet P2.07 PARTIAL FLOOR PLANS – PLUMBING PIPING
- M. Sheet P2.09 PARTIAL FLOOR PLANS – COSMETOLOGY PLUMBING
- N. Sheet P3.02 RISER – SANITARY CONT.
- O. Sheet P3.04 RISER – SANITARY CONT.
- P. Sheet P3.07 RISER – DOMESTIC
- Q. Sheet P3.08 RISER – DOMESTIC CONT.

END OF ADDENDUM NUMBER 04

PREPARED BY

GMC

2400 5th Avenue S, Suite 200 | Birmingham, Alabama 35233
Tel 205.879.4462 | GMCNETWORK.COM
Goodwyn Mills Cawood, LLC.

ADVERTISEMENT FOR PREQUALIFICATION AND BIDS

PREQUALIFICATION PROPOSALS will be received via email, or other electronic transmission, on behalf of the Owner by Goodwyn Mills Cawood, LLC., at 2400 5th Avenue South, Ste. 200, Birmingham, AL 35233, for the below referenced project, until **2:00 PM Local Time, September 8, 2023**. The prequalification procedure is intended to identify responsible and competent bidders relative to the requirements of the Project. Prequalification proposal requirements may be obtained from the Architect, by request either by phone (205.879.4462) or e-mail alyssa.martin@gmcnetwork.com, to Alyssa Martin. Additional qualifications and requirements for General Contractor Bidders and separate Subcontractors are indicated in the Bid and Contract Documents.

SEALED PROPOSALS will be received only from previously **PRE-QUALIFIED General Contractors by Lauderdale County Board of Education, located at 355 Co. Road 61, Florence, AL 35634; until 2:00 PM Local Time, December 07, 2023, for this project:**

**LAUDERDALE COUNTY INNOVATION CENTER
FLORENCE, ALABAMA for
Lauderdale County Board of Education**

(LOCALLY FUNDED)

at which time and place they will be publicly opened and read.

A cashiers check or bid bond payable to Lauderdale County Board of Education in an amount not less than five (5) percent of the amount of the bid, but in no event more than \$10,000, must accompany the bidder's proposal. Performance and statutory Labor and Material Payment Bonds, and insurance in compliance with requirements, will be required at the signing of the Contract.

Drawings and Specifications may be examined at the Office of the Architect; Dodge Data & Analytics; Data Fax; and ConstructConnect.

Bid documents (Plans, Specifications, and Addenda) will be sent to prequalified General Contractors only from the Architect electronically with no deposit. Subcontractors should contact a General Contractor or plan room for documents.

Only General Contractors who have completed the prequalification process within the stated time limits, and which are properly licensed in accordance with criteria established by the State Licensing Board for General Contractors under the Provision of Title 34, Chapter 8, Code of Alabama, 1975, as amended, will be considered for prequalification for the Work of this project.

A **MANDATORY PRE-BID CONFERENCE** will be held at the same location as bids are to be opened, at **1:00 PM local time November 02, 2023** for the purpose of reviewing the project and answering Bidder's questions. **Attendance at the Pre-Bid Conference IS REQUIRED for all General Contractor Bidders** intending to submit a Proposal, and is highly recommended for Subcontractors. Bids from General Contractors not attending the Pre-Bid Conference will be rejected.

Per the Owner and the Alabama Department of Revenue (ADOR), Act 2013-205, the project will be bid **EXCLUDING TAXES** and will require the Contractor to complete DCM Form C-3A Accounting of Sales Tax Attachment to DCM Form C-3 Proposal Form (August 2020) which will be submitted with the Contractors Proposal at the time of the Bid. If awarded the bid, both tax exempt

entity and contractor shall apply for certificates of exemption. ADOR shall issue certificates of exemption from sales and use tax for each tax exempt project. Certificates shall only be issued to contractors licensed by the State Licensing Board for General Contractors or any subcontractor working under the same contract. Items eligible for exemption are building materials, construction materials and supplies and other tangibles that become part of the structure. ADOR will handle the administration of the certificates and the accounting of exempt purchases.

The Owner reserves the right to reject any or all proposals, to waive technical errors and/or abandon the prequalification and bid process if, in their judgment, the best interests of the Owner will thereby be promoted.

Lauderdale County Board of Education
355 County Road 61
Florence, Alabama, 35634

GOODWYN MILLS CAWOOD, LLC.
MEMBERS, AMERICAN INSTITUTE OF ARCHITECTS
2400 5th Avenue South, Suite 200
Birmingham, Alabama 35233
Phone: (205) 879-4462
Fax: (205) 879-4493

END OF ADVERTISEMENT

NOTE: For projects exceeding \$50,000, this notice must be run once a week for three successive weeks in a newspaper of general circulation in the county or counties in which the project, or any part of the project, is to be performed. If the project involves an estimated amount exceeding \$500,000, this notice must also be run at least once in three newspapers of general circulation throughout the state. Proof of publication is required.

DCM Form C-1; August 2020.
REVISED (GM&C): February 2021.

SECTION 22 0440
PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Plumbing fixtures.
- B. Plumbing miscellaneous equipment.

1.2 RELATED SECTIONS

- A. Section 220401 – Basic Plumbing Requirements.
- B. Section 220403 – Basic Plumbing Materials and Methods.
- C. Section 220405 – Identification for Plumbing Piping and Equipment.
- D. Section 220407 – Plumbing Systems Insulation.
- E. Section 220410 – Plumbing Piping.

1.3 SUBMITTALS FOR REVIEW

- A. See Section 220401, Submittal for Review.
- B. Plumbing Product Data: Provide catalog illustrations of fixtures, sizes, rough-in dimensions, trim and finishes.

1.4 SUBMITTALS AT PROJECT CLOSEOUT

- A. Refer to Division 01 and Section 220401 – Submittals for Project Closeout.
- B. Maintenance Data: Provide 3 sets of manufacturer's maintenance and parts listing including the manufacturers nearest sales and service representative. Include the sales representative's address and telephone number. Provide with the listing, a suggested maintenance schedule for all equipment along with warranty dates. Items are to be provided in three ring binders with tabs identifying different equipment types.
- C. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years' experience.

1.6 REGULATORY REQUIREMENTS

- A. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.7 DELIVERY, STORAGE AND PROTECTION

- A. Accept fixtures on site in factory packaging, inspect for damage and store.
- B. Protect installed fixtures from damage by securing areas and by leaving factory packaging in place to protect fixtures and prevent use.

1.8 WARRANTY

- A. See other sections of the specification for additional warranty information.

- B. The Contractor shall warrant all materials, workmanship and equipment for a period of one year from the date of substantial completion. Any defect in equipment or workmanship shall be made known to the Contractor within 1 year. Such deficiencies shall be corrected by the Contractor at no cost to the Owner.

1.9 EXTRA MATERIALS

- A. See other sections of the specification for additional extra material requirements.
- B. Provide two sets of cartridges or washers for all faucet types, two flush valve repair kits for all flush valve type and one loose key for each hose bibb or wall hydrant.

PART 2 - PRODUCTS

2.1 DRAINS

- A. Mechanical Room Floor Drain (MFD): Mifab #1340-5-7 with sediment bucket and trap primer connection. Provide deep seal trap, trap guard and coordinate exact location with HVAC equipment.
- B. Roof Drain (RD): Zurn Z100, complete with underdeck clamp and cast iron or aluminum dome. Provide 4" high, 1/16" thick perforated stainless steel gravel stop around dome.
- C. Roof Overflow (ROF): Terminate open pipe 3" above finish roof. Flashing same as V.S.T.R.
- D. Downspout Nozzle (DS): J.R. Smith #1770-BS complete with wall flange and bird screen in opening. Securely anchor flange to wall with brass screws and caulk water tight.
- E. Floor Drain (FD): Mifab 1100-S-1 with 6"x6" square nickel bronze reinforced grate. Provide trap guard on floor drains and deep seal trap.
- F. Floor Sink (FS): Mifab FS1760-FL, 12" diameter, 8" deep porcelain enameled cast iron interior, less top grate, with porcelain enameled dome bottom strainer.
- G. Trap Guard (TG): J.R. Smith #2692 quad close "stink stopper" trap seal device.
- H. Trench Drain (TD): NDS-864 5" pro series channel system with 4" bottom outlet traffic rated channel grate. Chem Caulk 900 all joints and install per manufacturers recommendations.

2.2 WALL HYDRANT

- A. WH: J.R. Smith #5519 ASSE 1052 listed wall hydrant, with integral backflow preventer, latching cover, freeze-proof and all bronze box. Provide casing of sufficient length in order that valve seat be on building side of exterior wall insulation. Install with center line 24" above finish grade and provide Owner with one (1) loose key for each wall hydrant.

2.3 HOSE BIBB

- A. HB: Chicago Faucet #952 polished chrome plated brass with, drain plug, tee handle and vacuum breaker. Install with center line 24" above finished floor.

2.4 HOSE REEL

- A. HR-1: Provide One (1) reel as indicated on plans, reel banks shall consist of the following:
 - 1. One (1) Air Reel Assembly consisting of the following:
 - a. HPL65B with 50' x 1/2" ID hose.
 - b. Part # 218-549 Inlet connecting hose kit.
 - c. Part # 108-458 Shutoff valve.
 - d. Part # 110-199 Quick Coupler.

- B. Reel Mounting Bracket: Each bank of reels shall be provided with mounting channels and mounting brackets needed for proper mounting to frames that will be provided by the contractor. Graco 24A939 Open Channel recommended.
- C. Manufacturers:
 - 1. Products of GRACO, Minneapolis, MN or REELCRAFT, Delta, OH used for the purpose of establishing a standard of quality and design.

2.5 ROOF HYDRANT

- A. RH: Woodford Model SRH-MS sanitary roof hydrant with dual check back flow preventer, hydrant support and boot cover, under deck flange with mounting bolts and water connection with no drain required.

2.6 CLEANOUTS

- A. Furnish and install cleanouts where indicated on drawings and at all 90-degree bends, angle, upper terminals and not over 75 feet apart on straight runs. All cleanouts on cast iron piping to have bronze countersunk tapered slotted plugs, except PVC waste piping cleanouts, which shall be standard of piping system used. Flush-with-floor cleanout access covers shall have non-skid covers. All wall cleanout access covers shall have polished satin finish. All cleanouts shall be full size of pipe, piping larger than 6" shall have minimum 6" cleanout covers.
- B. Exposed Cleanouts: Cast brass plug type, J.R. Smith #4470.
- C. Wall type cleanout plug and access covers, J.R. Smith #4472. Cleanout plug must be within 1" of finish wall and must be tapped for access cover. On PVC plastic waste pipe in wall; cleanout access cover J.R. Smith 4710.
- D. Install wall cleanouts on stacks at flush valve fixtures 12" above top of flush valve, 12" above top of flush tanks, 12" above finish floor on sinks, lavatories and water coolers and 12" above grab bars at fixtures with grab bars. Locate cleanouts to clear baseboard at floor.
- E. Floor type cleanout access covers: J.R. Smith #4248-NB. Plug must be within 3" of finished floor. Provide J.R. Smith #4188 where installed in terrazzo floors and J.R. Smith #4168 where located in floor with asphalt or vinyl tile covering. Grout cleanout below access cover to seal watertight. Provide option "Y" cleanout carpet markers where installed in carpeted floors.
- F. Outside Cleanouts: J.R. Smith #4258 cleanout access encased in a 18" X 18" X 6" deep concrete pad. See Detail on Drawings.

2.7 REDUCED PRESSURE ZONE BACKFLOW PREVENTER VALVE ASSEMBLIES

- A. 1/2 inch and 3/4 inch: Watts #9D, Wilkins #750, same size as pipe.
 - 1. Pipe relief port to sanitary receptor or hub drain and terminate with air gap.
- B. Pipe relief from backflow preventer full size to nearest floor drain. Provide factory air gap for relief connection.
- C. Watts model LF7R dual check valve back flow preventer, lead free copper silicon alloy body, stainless steel springs and EPDM seals. Backflow preventer to match line size.
- D. Backflow preventer valve assemblies must be calibrated by a certified tester at the time of installation, prior to completion of project, in order to ascertain that the assembly is in full working order.

2.8 GREASE INTERCEPTOR

- A. GT-1: Highland Tank Double Basin Passive HighGuard Grease Interceptor, minimum 2,000-gallon capacity with baffles, to meet local Health Department requirements and as detailed on drawings.

Verify size requirements with local Health Department and bid accordingly. Note: baffle may be omitted if approved by local authority. Verify size requirements with local Health Department and bid accordingly.

2.9 OIL INTERCEPTOR

- A. OW-1: Highland Tank HTC 1,000 Gallon HighGuard Oil/Water Separator with integral storage compartment for in-ground installation. Interceptor and storage compartment to be single wall construction with interstitial space for in-ground installation. Unit to provide for a minimum flow rate of 100 gallons per minute with a minimum storage capacity of 1,000 gallons. Provide unit with high level sensor and control panel and 4" cleanout access.

2.10 PLUMBING FIXTURES AND EQUIPMENT

- A. Unless otherwise specified, all fixtures complete as catalogued, commercial grade, white color, exposed metal trim chromium plated.
- B. Fixtures and brass shall be securely anchored. Carriers shall be securely anchored to floor with lug bolts in all holes as recommended by the manufacturer.
- C. Flush valve "YJ" supports shall be installed 1 inch below vacuum breaker on all water closet flush valves and around vacuum breaker on urinal flush valves. Handles on A.D.A. water closets to be installed on wide side of room or stall.
- D. Seal wall hung fixtures at wall with white silicone sealant. Seal countertop fixtures with clear silicone sealant.
- E. Seal floor mounted water closets to floor with white silicone sealant.
- F. Mount all fixtures at standard mounting height unless otherwise noted.
- G. All faucets to be furnished with ceramic discs.
- H. Furnish sinks and lavatories with correct number of drillings required for the faucet and accessories. Hole covers are not acceptable.
- I. All similar products shall be by the same manufacturer.
- J. All fixtures noted to be A.D.A. approved must be set with great care to assure proper mounting height and proper distance from wall.
- K. All items complete as catalogued as follows:

WC-1 Water Closet:	Floor Mounted - Kohler K-4406 complete, Sloan #111-1.6 flush valve with YJ bracket and Church "Dura Guard" Model #2155SSCT seat.
WC-2 Water Closet:	Floor Mounted - Kohler K-96057 complete Sloan #111-1.6 flush valve with YJ bracket and Church "Dura Guard" Model #2155SSCT seat. Must meet A.D.A.
UR-1 Urinal:	Wall Hung – Kohler K-5016-ET complete, Sloan 186-0.5 flush valve with YJ bracket, J.R. Smith #637 fixture support.
UR-2 Urinal:	Wall Hung - Kohler K-5016-ET complete, Sloan #186-0.5 flush valve with YJ bracket, J.R. Smith #637 fixture support with lip 17" above finish floor. Must meet A.D.A.

LAV-1 Lavatory:	Wall Hung - Kohler K-2035 (K-2028 basin and K-2057 shroud) complete, Symmons S-20 faucet, McGuire 155A outlet with tailpiece, J.R. Smith #700-M31 fixture support, McGuire 165 stops with supplies and McGuire 8872C P-Trap. Insulate P-trap, stops and supplies with McGuire ProWrap insulator kit and install with rim at 34" above finish floor. Set hot water temperature at 109 deg F with TMV-1. Must meet A.D.A.
HCW-1 Hot and Cold-Water Hydrant:	J.R. Smith #5560 QT with vacuum breaker and all bronze box.
EWC-1 Electric Water Cooler:	Elkay #EZSTL8WSLK bi-level water cooler with sensor activated bottle filling station with all stainless steel cabinet and waterways that are manufactured of 100% lead free material, J.R. Smith #834 fixture support, McGuire 8912C P-Trap and McGuire 165 stop with supply. Fully insulate P-Trap with McGuire ProWrap insulator. Install with lower spout outlet maximum 36" AFF. Must meet A.D.A.
SS-1 Service Sink:	Elkay EWS31202, stainless steel, wall hung, 10" deep sink, coordinate number and spacing of holes in backsplash to install faucet, Zurn Z842C4-XL backsplash mounted faucet, 8 inch centers, chrome plated, 8" swivel gooseneck, faucet center line to be minimum 6" off center from sink drain, Elkay LK-35 strainer, McGuire 8912C P-Trap and McGuire LF2167 1/2x1/2 stop valve and risers.
JC-1 Janitors Receptor:	Stern Williams #SBC-1700 (24" X 24") complete, T-35 hose with wall hook, stainless steel backsplash, A40 mop hanger and T&S Brass B-0665-BSTR faucet with integral stops and spring checks.
SK-1 Sink:	Elkay LR2219, LK-35 strainer, T&S Brass B-2865 faucet, McGuire 8912C P-Trap and McGuire 165 stops with supplies.
SK-2 Workroom Sink:	Elkay ELUH129 complete, T&S Brass B-2865 faucet, McGuire 155A outlet with tailpiece, McGuire 165 stops with supplies and McGuire 8872C P-Trap.
SK-3 Salon Sink:	Bowl is integral to casework, T&S Brass B-2865 faucet, McGuire 155A outlet with tailpiece, McGuire 165 stops with supplies and McGuire 8872C P-Trap.

SK-4 Shampoo Sink:	Furnish and set in place under another Section. Rough and connect complete. Provide ball valve cut off on hot and cold water supply. Install above ceiling a line size RPZBP with strainer on inlet side of backflow preventer and shock arrestor PDI size "B" on the outlet side. Provide J.R. Smith #8750 or #8760 hair interceptor.
SK-5 Pedicure Sink:	Furnish and set in place under another Section. Rough and connect complete. Provide ball valve cut off on hot and cold water supply. Install above ceiling a line size RPZBP with strainer on inlet side of backflow preventer and shock arrestor PDI size "B" on the outlet side.
SK-6 Sink:	<i>Elkay LRAD221955, LK-35 strainer, T&S Brass B-2865 faucet, McGuire 8912C P-Trap and McGuire 165 stops with supplies.</i>
SH-1 Shower Valve	Delta Model T13H332 pressure balanced mixing valve with, integral checks, field adjustable handle rotation, #3 Shower head, arm over and flange, Hand shower with 24" stainless steel bar with slide for hand shower. Delta model R10700-UNWS forged brass diverted valve
TMV-1 Thermostatic Mixing Valve:	Leonard Model 170D-LF Thermostatic mixing valve, installed in the "H" position with bracket secured to wall under all public and ADA lavatories. Valve must meet the minimum flow rate of .25 gpm. Set hot water temperature at 109 deg F and pipe as detailed on drawings. Must meet ASSE 1070.
TMV-2 Thermostatic Mixing Valve:	Guardian Model G6020 thermostatic mixing valve set at 85 deg F. Must meet ASSE 1071.
TMV-3 Thermostatic Mixing Valve:	Leonard Model XL-32A-LF-BDT Thermostatic mixing valve with 3/4" inlets and 3/4" outlet providing a flow rate of 32 gpm and minimum flow rate of 0.7 gpm with a pressure drop of 10 psi. Unit to be provided with integral check stops on inlets, ball valve and thermometer on leaving piping. Pipe as detailed on drawings. Must meet ASSE 1016, 1017, 1062, 1069, and 1070.
REF-1 Refrigerator:	Furnished and installed under another Section. Provide in wall behind refrigerator a Sioux Chief OxBox 696 with minirester, angle stop and 10 feet of 1/4" soft copper coiled in box

	for connection to Refrigerator Ice Maker.
WMB-1 Washing Machine Box:	Sioux Chief Ox Box 6962313MF with water hammer arrestors.
ES-1 Emergency Shower & Eye Wash:	Guardian Model G1991 free standing safety station with eyewash, TMV-2 with wall bracket set at 85 deg F. Install on wall above ceiling. Install shower head 96 inches above finished floor. Must meet ASSE 1071.
EW-1 Eye Wash:	Guardian Model G5022 deck mounted, 90° swivel and Guardian Model G6020 thermostatic mixing valve set at 85 deg F. Must meet ASSE 1071.
EW-2 Eye Wash:	Guardian Model G1891 wall mounted, all stainless steel eye wash, 2 spray heads with flip top dust covers, stay open ball valve with hand paddle, stainless steel bowl, 1-1/4" drain connection and ANSI compliant identification sign. Provide McGuire 8872C P-trap and TMV-2, low lead content, conforming to ASSE 1071 and ANZI Z358.1. Set outlet for 80°F.
EWH-1 Electric Water Heater:	Lochinvar JEJ030KS with a storage capacity of 30 gallons. Set with outlet temperature of 125 deg F. Provide P & T relieve valve and install as detailed on Drawings. 4.5KW, 208/1/60. Verify voltage with Electrical Section. Provide with mounting shelf.
EWH-2 Electric Water Heater:	Lochinvar JEJ030KS with a storage capacity of 30 gallons. Set with outlet temperature of 125 deg F. Provide P & T relieve valve and install as detailed on Drawings. 4.5KW, 208/1/60. Verify voltage with Electrical Section. Provide with mounting shelf.
EWH-3 Electric Water Heater:	Lochinvar JEJ030KS with a storage capacity of 30 gallons. Set with outlet temperature of 125 deg F. Provide P & T relieve valve and install as detailed on Drawings. 4.5KW, 208/1/60. Verify voltage with Electrical Section. Provide with mounting shelf.
EWH-4 Electric Water Heater:	Lochinvar LHS-80X13 with a storage capacity of 80 gallons. Set with outlet temperature of 125 deg F. Provide P & T relieve valve and install as detailed on Drawings. 13.5KW, 480/3/60. Verify voltage with Electrical Section.
GWH-1 Gas Water Heater:	Lochinvar Shield SWR150N, complete with all standard accessories plus vent kit, condensate

	neutralization kit, and P&T relief valve. 150,000 BTU/hr input. Install as detailed on Drawings.
GWH-2 Gas Water Heater:	Lochinvar Shield SWR150N, complete with all standard accessories plus vent kit, condensate neutralization kit, and P&T relief valve. 150,000 BTU/hr input. Install as detailed on Drawings.
GWH-3 Gas Water Heater:	Lochinvar Shield SWR200N (two total units), complete with all standard accessories plus vent kit, condensate neutralization kit, and P&T relief valve.. 199,000 BTU/hr input. Install as detailed on Drawings.
ET-1 Expansion Tank:	Amtrol Therm - X-Trol #ST-5C expansion tank. Pre-charged, ASME stamped with all wetted internal parts being FDS approved. Isolation between water and air shall be by a Butyl Diaphragm. Provide with 5-year warranty.
ET-2 Expansion Tank:	Amtrol Therm - X-Trol #ST-5C expansion tank. Pre-charged, ASME stamped with all wetted internal parts being FDS approved. Isolation between water and air shall be by a Butyl Diaphragm. Provide with 5-year warranty.
ET-3 Expansion Tank:	Amtrol Therm - X-Trol #ST-5C expansion tank. Pre-charged, ASME stamped with all wetted internal parts being FDS approved. Isolation between water and air shall be by a Butyl Diaphragm. Provide with 5-year warranty.
ET-4 Expansion Tank:	Amtrol Therm - X-Trol #ST-12C expansion tank. Pre-charged, ASME stamped with all wetted internal parts being FDS approved. Isolation between water and air shall be by a Butyl Diaphragm. Provide with 5-year warranty.
ET-5 Expansion Tank:	Amtrol Therm - X-Trol #ST-5C expansion tank. Pre-charged, ASME stamped with all wetted internal parts being FDS approved. Isolation between water and air shall be by a Butyl Diaphragm. Provide with 5-year warranty.
ET-6 Expansion Tank:	Amtrol Therm - X-Trol #ST-5C expansion tank. Pre-charged, ASME stamped with all wetted internal parts being FDS approved.

	Isolation between water and air shall be by a Butyl Diaphragm. Provide with 5-year warranty.
ET-7 Expansion Tank:	Amtrol Therm - X-Trol #ST-12C expansion tank. Pre-charged, ASME stamped with all wetted internal parts being FDS approved. Isolation between water and air shall be by a Butyl Diaphragm. Provide with 5-year warranty.
RCP-1 Circulator Pump:	Armstrong Model ASTRO220 1/32 HP, 115/1/60. All Bronze.
RCP-2 Circulator Pump:	Armstrong Model ASTRO220 1/32 HP, 115/1/60. All Bronze.
RCP-3 Circulator Pump:	Armstrong Model ASTRO220 1/32 HP, 115/1/60. All Bronze.
RCP-4 Circulator Pump:	Armstrong Model ASTRO220 1/32 HP, 115/1/60. All Bronze.
RCP-5 Circulator Pump:	Armstrong Model ASTRO220 1/32 HP, 115/1/60. All Bronze.
RCP-6 Circulator Pump:	Armstrong Model ASTRO220 1/32 HP, 115/1/60. All Bronze.
RCP-7 Circulator Pump:	Armstrong Model ASTRO230 1/8 HP, 115/1/60. All Bronze.
RCP-8 Circulator Pump:	Armstrong Model ASTRO220 1/32 HP, 115/1/60. All Bronze.

2.11 AIR COMPRESSORS

- A. AC-1: The Air Compressors shall be a completely factory assembled, and factory tested skid mounted unit for single point connection for air intake, air discharge and electrical. Field erection unit shall consist of the control cabinet, air compressor, air dryers, filters, receiver, and control cabinet. Unit shall be UL Listed and be in full compliance with NFPA 99. Each unit shall be capable of plumbing 170 CFM at 125 psi. The compressors shall be rotary screw type construction. The receivers shall be an ASME stamped 120-gallon horizontal mounted tank with fully valved by-pass around unit. Air compressor shall be two (2) Ingersoll Rand Model UP6-15C, 15 HP, 460/3/60. Verify voltage with Electrical Section. Unit shall be mounted on a 4" high housekeeping and assembled as detailed on the Drawings and manufacturer's instructions.
 - 1. The dryers shall be two (2) Ingersoll Rand Model DA127ECA100 DRYR-R 75 cfm, 115/1/60. Verify voltage with Electrical Section. Unit shall be mounted on a 4" high housekeeping and assembled as detailed on the Drawings and manufacturer's instructions.

- B. AC-2: The Air Compressor shall be a completely factory assembled, and factory tested skid mounted unit for single point connection for air intake, air discharge and electrical. Field erection unit shall consist of the control cabinet, air compressor, air dryers, filters, receiver, and control cabinet. Unit shall be UL Listed and be in full compliance with NFPA 99. Each unit shall be capable of plumbing 16.8 CFM at 100 psi. The compressors shall be rotary screw type construction. The receiver shall be an ASME stamped 80-gallon horizontal mounted tank with fully valved by-pass around unit. Air

compressor shall be an Ingersoll Rand Model 247N5-P, 5 HP, 480/3/60. Verify voltage with Electrical Section. Unit shall be mounted on a 4" high housekeeping and assembled as detailed on the Drawings and manufacturer's instructions.

1. Dryer shall be an Ingersoll Rand Model D42IN, 115/1/60 for AC-1. Verify voltage with Electrical Section. Unit shall be mounted on a 4" high housekeeping and assembled as detailed on the Drawings and manufacturer's instructions.

2.12 FOOD SERVICE EQUIPMENT

- A. All equipment is furnished and set in place under the Food Service Section.
- B. All sink waste outlets, strainers, lever wastes and tailpieces are furnished under Food Service Section.
- C. All faucets are furnished under the Food Service Section.
- D. Under this Section rough and connect in accordance with shop drawings accompanying the equipment. Provide stops on supplies and BFP as required on coffee makers, tea brewers, beverage dispensers, ice machines, steamers, kettles, etc. as required by Health Department and Plumbing Code.
- E. Under this Section extend all wastes to floor sinks, using D.W.V. copper and securely anchored in the horizontal. Install flow control devices on sinks wastes as shown and detailed on drawings.
- F. Receive faucets, furnished under the Food Service Section set, rough, connect and furnish McGuire 165 stops with supplies.
- G. Plumbing contractor to install gas, hot and cold water flex connectors to cooking equipment.
- H. Furnish McGuire 8912C P-Traps where sink, etc., is not piped to a floor sink.

2.13 ACCEPTABLE MANUFACTURERS

- A. Where Kohler is listed above, Toto, Zurn, Mansfield, or American Standard may be substituted.
- B. Where Sloan is listed above, Delaney, Toto and Zurn may be substituted.
- C. Where J. R. Smith is listed above, Josam, Zurn, Mifab, Watts, Jones Stephens or Wade may be substituted.
- D. Where Elkay water coolers are mentioned above, Halsey Taylor, Oasis, Acorn, or Aqua may be substituted, only if water ways are constructed of totally lead free materials.
- E. Where Armstrong is listed above, the equal of B & G, Hyfab, ITT-Bell & Gossett, Taco, Grundfos or Thrush may be substituted.
- F. Where Elkay sink(s) are listed above, Just or Advance Tabco may be substituted.
- G. Where Church is listed above, Bemis, Beneke, Centoco, Olsonite or Comfort Seats may be substituted.
- H. Where Delta is listed above for shower control valves, Symmons, Speakman, Leonard, Powers, Acorn, Moen Commercial, or Zurn may be substituted.
- I. Where Ingersoll-Rand is listed above, Jay or Worthington may be substituted.
- J. Where T&S Brass is listed above, Chicago, Speakman, Kohler, Royal, Cambridge, Moen Commercial, or Zurn may be substituted, provided manufacturer can furnish all fixture brass specified.
- K. Where Symmons Brass is listed above, American Standard, Kohler, Cambridge, Delta, Elkay, T&S, Zurn or Moen Commercial may be substituted, provided manufacturer can furnish all fixture brass specified.
- L. Where Lochinvar tank type water heaters are listed, HTP, Bradford-White, Rheem, or A.O. Smith may be substituted.

- M. Where Lochinvar Shield water heaters are listed above, A.O. Smith “Cyclone”, Rheem “Spider Fire”, or HTP “The Phoenix” may be substituted.
- N. Where Stern Williams is listed above, Acorn, Fiat, Mustee, or Florestone may be substituted.
- O. Where McGuire is listed above for traps, supplies and stops, Kohler, Crane, Eljer, Zurn, Deerborn, or American Standard may be substituted.
- P. Where J.R. Smith trap guards are listed above, ProSet and Sureseal may be substituted.
- Q. Where Guardian is listed above for safety equipment, Acorn, Bradley, Speakman or Haws may be substituted.
- R. Where McGuire ProWrap is listed above, "Handi Lav-Guard" by Truebro, "Trap-Wrap" by Brocar Industries, Inc., Dearborn, or Plumberex may be substituted.
- S. Where Leonard is listed for thermostatic mixing valves, Acorn, Armstrong Rada, Symmons or Lawler may be substituted.
- T. Where Amtrol is listed for expansion tanks, John Wood, Watts, ITT-Bell & Gossett, Elbi, or Armstrong may be substituted.
- U. Where J.R. Smith is listed for wall hydrants; Woodford, Zurn, Josam, Watts, or Mifab may be substituted.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Verify all electrical characteristics of electrical motors, starters and equipment with Electrical Drawings. Should the Contractor change the characteristics of the electrical equipment, it shall be the responsibility of the Contractor to coordinate all changes with the other trades and bear all costs of such changes.
- B. Coordinate all cutouts in millwork and casework with supplier for proper cutout dimensions.
- C. Install all fixtures and equipment in accordance with manufacturer's recommendations.
- D. All wall hung fixtures are to be installed on floor mounted fixture supports. Fixture supports are to be anchored to floor with anchors in all mounting holes. Anchors to be sized as per the manufacturer’s recommendations. Seal all fixtures to walls and floor with white silicone sealant. Seal all sinks to counter tops with clear silicone sealant.
- E. Adjust all stops, flush valves and valves for intended water flow rate.
- F. Clean plumbing fixtures and equipment and remove tags.
- G. Install all electric water heaters with clearance for removal of heating elements.
- H. Provide backing in wall for flush valve YJ brackets, faucet supports, etc. Anchor to the backing with anchoring screws of sufficient length to penetrate backing. See Section 220410, Part 3.
- I. Provide stops with chrome-plated nipples penetrating wall and cover penetrations with chrome-plated escutcheons. Note: Compression type stops and plastic stems are not acceptable.

END OF SECTION 22 0440

Bernhard

Bernhard TME, LLC ■ Engineering Division

ADDENDUM #04

Lauderdale County Board of Education
Lauderdale County Innovation Center
Florence, AL

Bernhard TME Project No. 12-22-0082
Client Project No. ABHM210017

November 3, 2023

Specifications:

1. Refer to Section 220440 Plumbing Fixtures, Part 2, Paragraph 2.10:
 - A. **ADD** fixture SK-6 Sink.

Drawings:

1. Refer to Revised Sheet (P0.01) – (LEGENDS, NOTES, AND SCHEDULES - PLUMBING) – revision dated (2023-11-03):
 - A. **REVISE** TMV-2 & TMV-3 piping sizes on plumbing connection schedule.
 - B. **ADD** SK-6 to plumbing connection schedule
2. Refer to Revised Sheet (P1.02) – (PART A – FLOOR PLAN – PLUMBING PIPING) – revision dated (2023-11-03):
 - A. **REVISE** Life Academy 181 sink to SK-6.
3. Refer to Revised Sheet (P1.04) – (PART C & D – FLOOR PLANS – PLUMBING PIPING) – revision dated (2023-11-03):
 - A. **ADD** 3" air intake and vent.
4. Refer to Revised Sheet (P2.03) – (PART B – ROOF PLANS – PLUMBING PIPING) – revision dated (2023-11-03):
 - A. **ADD** 3" air intake and vent.
5. Refer to Revised Sheet (P2.04) – (PART C & D – ROOF PLANS – PLUMBING PIPING) – revision dated (2023-11-03):
 - A. **ADD** 3" air intake and vent.

Bernhard

Bernhard TME, LLC ■ Engineering Division

6. Refer to Revised Sheet (P2.07) – (PARTIAL FLOOR PLANS – PLUMBING PIPING) – revision dated (2023-11-03):
 - A. **REVISE** ADA urinal locations.

7. Refer to Revised Sheet (P2.09) – (PARTIAL FLOOR PLANS – COSMETOLOGY PIPING) – revision dated (2023-11-03):
 - A. **ADD** 3” air intake and vent.
 - B. **REVISE** Stor 188 sink to SK-6.

8. Refer to Revised Sheet (P3.02) – (RISERS – SANITARY CONT.) – revision dated (2023-11-03):
 - A. **REVISE** Riser 08.

9. Refer to Revised Sheet (P3.04) – (RISERS – SANITARY CONT.) – revision dated (2023-11-03):
 - A. **REVISE** Riser 40.

10. Refer to Revised Sheet (P3.07) – (RISERS – DOMESTIC) – revision dated (2023-11-03):
 - A. **REVISE** Riser 29.

11. Refer to Revised Sheet (P3.08) – (RISERS – DOMESTIC CONT.) – revision dated (2023-11-03):
 - A. **REVISE** Riser 31.

End of Addendum #04

Pre-Bid Sign-in Sheet



Date: November 2, 2023

Meeting Subject: Lauderdale County Innovation Center

Location: 355 Co. Road 61, Florence, AL 35634

Name	Company / Organization	Address	Phone Number	E-Mail Address
Ronnie Owens	Lauderdale BOE	802 CR 606 Reynoldsville, AL 36862	256-412-4000	Rhowens4005@bellSouth.net
JONATHAN GRAMMER	VOLKERT	100 TOWNCENTER BOULEVARD TUSCALOOSA, AL 35606	205-945-0876	JONATHAN.GRAMMER@VOLKERT.COM
Sommer Coleman	Volkert	" "	205-242-1170	Sommer.Wolman@VOLKERT.COM
John Hitt	Volkert	100 Tower Center Boulevard	256-476-6826	john.hitt@volkert.com
Leonard Ash	Ray Anderson Corp	Richard L Road bulford	205-228-2974	estimator@rayanderson.com
Terrell Skipworth	Garnet Electric Co.	1615 E. State ST Sheffield AL	256-381-4062	jskipworth@garnetelectric.com
Jeff Talbot	Big River Electric	5945 Hwy 72 Killen, AL	256-272-0792	jeff@bigriver-electric.net
Donnie Piche	M.S Harris	1 Rive Chase Ridge Birminghm, AL	205-440-6278	donnie.p@msharris.com
MARK DEMPSEY	B.H. CRACK & STRUTCH	835 WALL ST., FLORENCE, AL	256-766-3380	mark.dempsey@bhcrackandstrutch.com
Trace Heat	Trace Electric	2001 Gentry road 106 Florence, AL	256-767-9742	trace@traceelectric.com
MIKE WAGNOR	WAGNOR CONST	290 MITCH BLVD TUSCUMBIA	256-412-8674	MIKE.WAGNOR@WAGNOR.COM
MITCH MITCHELL	MLMD, LLC	276 Joint Rd, Muscogee Shores, AL 35661	256-710-5809	MITCH@MLMDLLC.COM
RUSTY DEEN	GRINT TEAM CONSTRUCTION	DEAN RD, AUBURN, AL 36830	254-502-7400	PRANDON@GRINTTEAMCONSTRUCTION.COM
Jon Phillips	Coats Electric	843 WALL ST Florence, AL 35630	256-766-9104	jon@coats-electric.com
Tony Brown	Big River Electric	5945 Hwy 72 Killen AL	256-366-6931	tony@bigriver-electric.net
Trace Cotton	Gmc	2400 S th AVE South P-Ham, AL.	205-879-4462	

PRE-BID CONFERENCE AGENDA
LAUDERDALE INNOVATION CENTER
LAUDERDALE COUNTY BOARD OF EDUCATION
November 2, 2023 at 2:00pm

Note: This agenda is complimentary, for the purpose of review during this meeting only; It does not attempt to nor does it represent a total recapitulation of Project requirements, and does not change or alter same in any respect; Changes, if any, will only be made by written Addendum.

1	Welcoming remarks. Reminder to sign-in on sheet at front of room or being circulated.
2	Introductions and names of Owner’s Representatives: Mr. Jerry Hill, Superintendent
3	State/City Building Inspector(s):
4	Project Directory: Names of Architect and Engineer’s personnel involved. Project Architect - Robert W. Gray, AIA Project Manager – Hunter Swatek, AIA
5	Bid Documents available for review at Architect’s office and statewide plan rooms.
6	Every General Contractor <u>and every Subcontractor</u> should read and be familiar with all of the “front-end” documents and all of Division 1 of the Project Manual, in addition to the work they are bidding and other work they have to coordinate with.
7	Bid time, date, place are indicated in the Advertisement provided in addendum 2.
8	Note that Advertisement and Instructions to Bidders should be read by each bidder. Note that Bids are to be held open for at least 60 days.
9	Proposal Form included in Project Manual, and copies furnished to each bidder with bid documents. Bid Bond requirements 5% amount of bid – no amount over \$10,000.00
10	Contractors are required to enroll in the E-Verify program of the United States Department of Homeland Security and are required to provide documentation of enrollment in the program with any state contracts or agreements. The E-Verify form, per Specifications, shall be submitted with the Proposal Form. <u>E-Verify Memorandum of Understanding</u> must be submitted <u>with</u> Contractors proposal form or proposal may be subject to rejection. <u>Bids must include Attachment A to Proposal Form (Unit Prices) at bid time. Attachment B to Proposal Form (Subcontractor List) to be submitted at Bid or within 24 hours after Bid Opening.</u>
11	Addenda – Number issued to date: 2
12	Insurance requirements should be read by each bidder, and should be provided to each General Contractor’s and Subcontractor’s insurance carrier for review. Please note any special requirements for general contractors. Insurance requirements are indicated in General and Supplementary Conditions; AND Additional requirements are indicated in Section 01015 - “Special Conditions” and should also be

	carefully reviewed and also sent to insurance carriers for review.
13	Section 01 0150 -“Special Conditions”
a.	Construction schedule requirements: A. Verify existing conditions at the site. B. Completion date: 620 days from the Owner’s official Notice to Proceed C. Discuss project schedule and Owner’s expectations.
b.	Liquidated damages amounts- as indicated in Section 01 0150, Paragraph 1.02.A.
c.	Pre-Construction Conferences – Mandatory for General Contractor.
d.	Contractor’s schedule must coordinate the overall construction schedule of the project.
e.	Contractor’s job meetings - coordination of the Work with all subcontractors and suppliers is required.
f.	Requirements for stored materials - As indicated per the specifications.
g.	Safety and Protection - Contractor’s responsibility.
h.	Work limits protection - the public, Owner’s staff, workers, etc.- Construction entrances, gates etc. – Discuss requirements with Owner
i.	Testing: Paid by the Owner for Divisions 3-5 and 31-32 (except utility testing), otherwise paid by the Contractor - and other provisions and requirements as indicated.
j.	Project Sign: Contractor to provide one sign, details in Project Manual. Architect is allowed one sign. No Subcontractor signs. Note any other requirements in this paragraph. PSCA sign required for project
k.	Superintendents’ and construction personnel experience requirements - as indicated. (five years for subs and seven years for superintendents.)
l.	Submittals requirements indicated. Please number submittals on transmittal according to the example shown in contract documents. Contractor is required to check, mark, stamp, and approve and/or reject submittals, prior to uploading into Submittal Exchange or whichever method will be used. Refer to Specification Section 013000 Administrative Requirements. E-Builder will be preferred method of communication
m.	Site maintenance requirements indicated. Daily attention required.
n.	Insurance and special provisions - in addition to other insurance requirements.
o.	Contractor Programs and Conduct of Personnel.
p.	Work by Others - as indicated.
14	Section 01 2100 - “Allowances”- <ul style="list-style-type: none"> • Emergency Responder Radio Coverage System – Lump Sum \$90,000 • Limited Aid to Construct – Lump Sum \$250,000 • Contingency – Lump Sum \$250,000

	<ul style="list-style-type: none"> • Permanent Cores and Keys – Lump Sum \$20,500 • Low Voltage Contingency – Lump Sum \$75,000 • 30A Busway Connections – Unit Price Item A x 10 • 60A Busway Connections – Unit Price Item B x 10 • Undercut and Backfill in Pavement Control Area – Unit Price Item C x 6,000 • Rock, Masonry, and Concrete Excavation in Open Excavation – Unit Price Item D x 500 • Mass Earth Excavation – Unit Price Item E x 5,000 • Trench Earth Excavation – Unit Price Item F x 2,500 • Rock, Masonry, and Concrete Excavation in Trenches and Pits – Unit Price Item G x 500 • Remove and Replace Mass Fill with Onsite Borrow – Unit Price H x 5,000 • Select Fill – Unit Price I x 5,000 • Additional Topsoil from Onsite Stockpile – Unit Price J x 2,500 • Trench Backfill – Unit Price K x 500 • Stone Fill (#2 Crushed Stone) – Unit Price L x 250 • Stone Fill (#57 Crushed Stone) – Unit Price M x 250 • Stone Fill (1 ½” Crusher Run) – Unit Price N x 250 • Stone Fill (ALDOT 825B) – Unit Price O x 250 • Tensar BX1200 Geogrid (or approved equal) – Unit Price P x 2,500 • Mirafi 600X Geotextile (or approved equal) – Unit Price Q x 2,500 • Mirafi 1660N Filter Fabric (or approved equal) – Unit Price R x 2,500 • Mirafi HP 270 Filter Fabric (or approved equal) – Unit Price S x 2,500 • Class II Rip-Rap with Filter Fabric (or approved equal) – Class II Rip-Rap = Unit Price T x 250 & Filter Fabric = Unit Price T x 2,500 • Backhoe with Operator – Unit Price U x 40 • Hydroseeding – Unit Price V x 5 • Seeding and Mulch – Unit Price W x 5 • Lime Stabilization – Unit Price X x 5,000 • Additional Clearing and Grubbing – Unit Price Y x 5 • Additional Silt Fence – Unit Price Z x 1,000 • Tree Removal (including stumps) up to 18” Diameter – Unit Price AA x 10 • Tree Removal (including stumps) greater than 18” Diameter – Unit Price AB x 10
15	Section 01 2300 - Alternates: Multi-purpose Space Addition
16	Discuss flow of construction personnel and material traffic.
17	Section 01 5000 - “Temporary Facilities” should be reviewed by each bidder.
18	<p>Closeout Submittals Section 01 7800 - “Project Close-Out” and “Project Record Documents” should be reviewed by each bidder.</p> <p>Final payment will not be made until the requirements of these sections and General Conditions are completed.</p> <p><u>Project Record Documents</u> must be kept up-to-date, on the project site, and will be checked periodically during the Work of the project. One (1) original set of paper plans and specifications and three (3) CDs each containing as-built drawings and specifications will be required at</p>

	closeout along with 1 paper copy of O&M Manuals and Warranties with 3 CDs.
19	Requirements for quality control, testing, and inspections are located throughout the project manual, and should be reviewed so that they are understood prior to bidding the project and prior to the low bidder entering into a contract for the project.
20	Contractor is to provide a copy of their current State General Contractor’s License prior to submitting their first application for payment.
21	All Pre-Bid Questions and Substitution Requests must be submitted to Goodwyn, Mills & Cawood, via e-mail to Project Manager (hunter.swatek@gmcnetwork.com) and Alyssa Martin (alyssa.martin@gmcnetwork.com). Be sure to add PROJECT TITLE in the subject line to assure prompt response. Substitution request must strictly follow requirements outlined in the specifications under “Instructions to Bidders” paragraph 7,e. Substitution requests will be accepted up to five (5) calendar days before bid opening and pre-bid questions will be accepted up to 48 hours before the bid opening. No Pre-bid Questions or Substitution Requests are to be submitted by subcontractors or suppliers, only those from General Contractors will be reviewed.
22	Questions?
23	Closing remarks.

END OF PRE-BID CONFERENCE AGENDA

NOTES:
<p>Coordination items with architect and construction manager:</p> <ul style="list-style-type: none"> • Will phase this project with road access and building • Updates / coordination with other surrounding projects and contractor • ALDOT widening of the highway • Temporary access drive about to be installed to the Innovation Center Site and Workforce Development Site • Ag Authority will be building the boulevard that runs and connects all the buildings
<p>Submittals, ASI’s, RFI’s, and other forms of communication will all run through E-Builder for this project. Contractor and all major sub-contractors will be required to have this program for the duration of the project.</p>
<p>The project will not bid until the drawings have been approved by DCM.</p>
<p>Low Voltage:</p> <ul style="list-style-type: none"> • GC shall do the backbone • Drawings do not currently show MDF room rack locations • Cabling contractor provides switches and access controls • Cameras will be provided by owner. GC shall provide conduits and boxes
<p>Bid opening is currently set for November 16, 2023 at 2:00 p.m. If the bid date has to move pick a date after Thanksgiving and before Christmas</p>
<p>Who is to maintain the access road? GC is responsible for maintaining the access road. Workforce Development site will also be using the temporary drive to access their site roughly 100’-0” away. That 100’-0” between the two sites will be maintained by each contractor.</p>

Phase I will be the access loop road around the site. Phase II will be the building.
Workforce Development contractor will install the temporary access road prior the Innovation Center site starting work
The site does not currently have permanent power. Power will come in on the east side of the site. Owner anticipates having power to the site by the time the project starts

GENERAL NOTES

- 1. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"x18"x6" THICK CONCRETE PAD, (J. R. SMITH 4258 OR EQUAL)
2. WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC NIPPLE SHALL BE USED.
3. ALL HORIZONTAL WATER, VENT, GAS, OXYGEN, VACUUM, NITROUS OXIDE, NITROGEN, MEDICAL COMPRESSED AIR, AND FIRE PIPING IS RUN ABOVE CEILINGS ON PLAN UNLESS OTHERWISE NOTED.
4. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
5. COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF BUILDING.
6. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS OF THE WORK. OBTAIN DIMENSIONS AND PERTINENT INFORMATION FROM ARCHITECTURAL DRAWINGS.
7. ALL WALL HYDRANTS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OR FINISH FLOOR UNLESS OTHERWISE NOTED.
8. INSTALL ALL OUTSIDE VALVES IN CONCRETE OR CAST IRON VALVE BOXES.
9. ALL HORIZONTAL STORM AND SANITARY PIPING IS RUN BELOW FLOOR ON PLAN UNLESS OTHERWISE NOTED.
10. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
11. PAVEMENT CUTS, BACKFILLING, AND PATCHING SHALL MEET ALL LOCAL REQUIREMENTS.
12. INSTALL WATER PIPING TO ASME B31.9. PROVIDE PDI SHOCK ARRESTORS ON WATER SUPPLIES TO ALL FIXTURES.
13. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGHING MECHANICAL ROOM FLOOR DRAINS, HOSE BIBBS, ETC.
14. ALL FLOOR SINKS TO BE INSTALLED WITH RIM/GRADE FLUSH WITH FINISH FLOOR.

ADA REQUIREMENTS

THIS APPLIES TO ADA ACCESSIBLE FIXTURES ONLY.
WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER LINE OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS. NO MORE THAN 29" ABOVE THE FINISH FLOOR. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.
URINALS: THE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE THE FINISH FLOOR. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED NO MORE THAN 44" ABOVE FINISH FLOOR.
LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF THE BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE THE FINISH FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.
FAUCETS - SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.
SHOWER: A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36"x36". THE SEAT SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE CONTROLS AND 17" TO 19" FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. SHOWER CONTROLS SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE SEAT AND SHALL BE LOCATED ON THE SAME WALL AS THE SHOWER HEAD, AT MINIMUM HEIGHT OF 38" AND A MAXIMUM HEIGHT OF 48". IN ADDITION TO THE FIXED SHOWER HEAD PROVIDE A HAND HELD SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND HELD SHOWER HEAD. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.
SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A KNEE CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6 1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.
WATER COOLERS: WHERE ONLY ONE DRINKING FOUNTAIN IS PROVIDED ON A FLOOR THERE SHALL BE A DRINKING FOUNTAIN WHICH IS ACCESSIBLE TO INDIVIDUALS WHO USE WHEEL CHAIRS AND ONE ACCESSIBLE TO THOSE HAVING DIFFICULTY BENDING OR STOOPING. THIS CAN BE ACCOMPLISHED BY USING A "HI-LO" FOUNTAIN. LOWEST SPOUT SHALL BE NO HIGHER THAN 36" ABOVE FINISHED FLOOR AND HIGHEST SPOUT SHALL BE MOUNTED AT 40" ABOVE FINISH FLOOR. SPOUTS SHALL BE AT FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. WALL MOUNTED UNITS SHALL HAVE A CLEAR KNEE SPACE OF BETWEEN THE BOTTOM OF THE APRON AND THE FINISHED FLOOR AT LEAST 27" HIGH, 30" WIDE, AND 17" TO 19" DEEP. FOUNTAINS SHALL NOT PROTRUDE MORE THAN 4" OUT INTO WALKWAYS.

PLUMBING LEGEND

Table with columns for symbol, description, ID, and trench drain. Includes symbols for air line, cold water line, gas line, hot water line, hot water return line, soil or waste line below slab, storm line, vent line, ball valve, gas cock, gas or water pressure regulator, check valve, balancing valve, union, pipe turning up/down, p-trap, cleanout w/ 18" square concrete pad, hose bibb, wall hydrant, wall cleanout, floor cleanout, riser diagram number, revision number, grease waste, area drain, floor drain w/ TG, floor sink, hub drain, mechanical floor drain w/ TG, trench drain, roof drain, roof over/flow pipe, shower drain, air admittance valve, above finish floor, clean out, cold water, electric water cooler, finish floor elevation, gallons per minute, horse power, hose reel, hot water, hot water return, invert, janitor's closet, lavatory, normally closed, plumbing fixture number, pounds per square inch, pressure reducing valve, rain leader, reduced pressure zone b.f. preventer, running trap, trap guard, urinal, vent thru roof, water closet.

PLUMBING KITCHEN CONNECTION SCHEDULE

Table with columns: MARK, FIXTURE, DIRECT WASTE, INDIRECT WASTE, CW, HW, GAS, REMARKS. Lists kitchen fixtures like prep table w/ sink, faucet, hand sink, freezer evaporator coil, cooler evaporator coil, mop sink cabinet, washer, 6-burner range, convection oven, etc.

WATER HAMMER ARRESTOR SCHEDULE

Table with columns: P.D.I. UNITS, A, B, C, D, E, F. Lists fixture units for various categories.

PLUMBING FIXTURE CONNECTION SCHEDULE

Table with columns: MARK, FIXTURE, WASTE, CW, HW, REMARKS. Lists plumbing fixtures like water closet, urinal, lavatory, elec water cooler, shower, sink, workroom sink, salon sink, shampoo sink, etc.

GAS WATER HEATER SCHEDULE

Table with columns: MARK, LOCHINVAR MODEL#, LOCATION, CW, HW, CFH, GAL., SET POINT, REMARKS. Lists gas water heaters like SWR150N, SWR150N, (2)SWR200N.

ELECTRIC WATER HEATER SCHEDULE

Table with columns: MARK, LOCHINVAR MODEL #, LOCATION, CW, HW, ELECTRICAL KW, GAL., SET POINT, REMARKS. Lists electric water heaters like JEJ030KS, JEJ030KS, JEJ030KS, LHS-80X13.

EXPANSION TANK SCHEDULE

Table with columns: MARK, AMTROL, LOCATION, GALLONS, ACCEPTANCE, REMARKS. Lists expansion tanks like ST-SC, ST-SC, ST-SC, ST-12C, ST-SC, ST-SC, ST-12C.

PUMP SCHEDULE

Table with columns: MARK, MODEL NO., LOCATION, G.P.M., HEAD (FT.), ELECTRICAL DATA H.P., VOLTS, PH, TYPE, REMARKS. Lists pumps like ARMSTRONG ASTRO220, ARMSTRONG ASTRO220, ARMSTRONG ASTRO220, ARMSTRONG ASTRO220, ARMSTRONG ASTRO220, ARMSTRONG ASTRO220, ARMSTRONG ASTRO230, ARMSTRONG ASTRO220.

AIR COMPRESSOR SCHEDULE

Table with columns: MARK, MODEL #, LOCATION, SCFM, PRESS., ELECTRICAL HP, RECEIVER, TYPE, REMARKS. Lists air compressors like UP6-15C, 2475N5-P.

GREASE INTERCEPTOR AND OIL/WATER SEPARATOR SCHEDULE

Table with columns: MARK, MODEL #, TANK SIZE, INLET, OUTLET, GPM, REMARKS. Lists grease interceptors like PGI 2000, HTC 1000.



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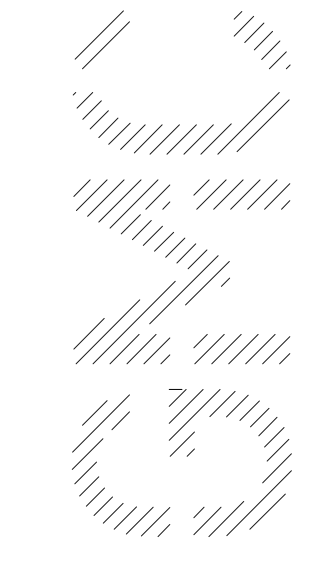
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LEGENDS, NOTES, AND SCHEDULES - PLUMBING P0.01 sheet of



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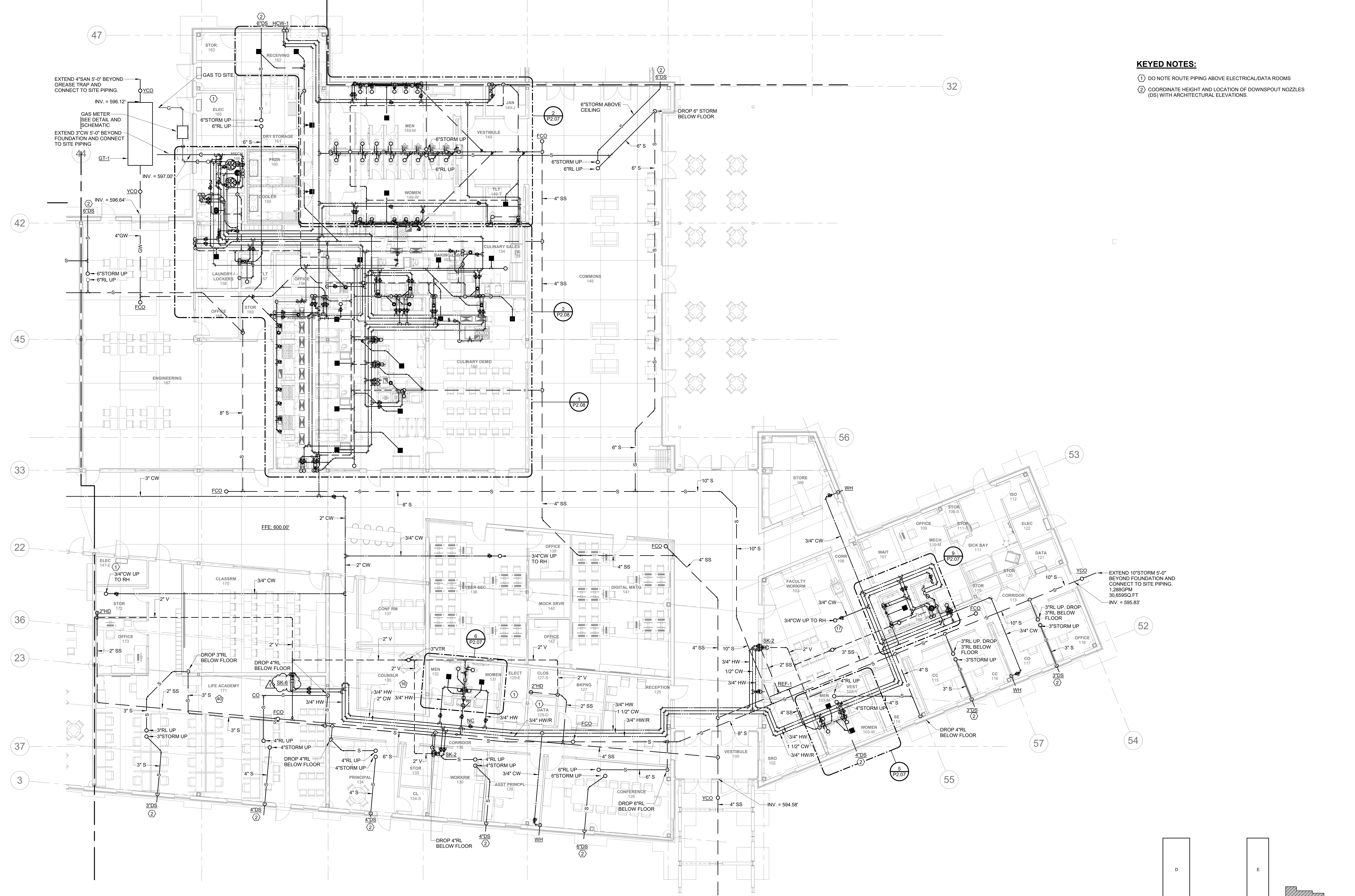
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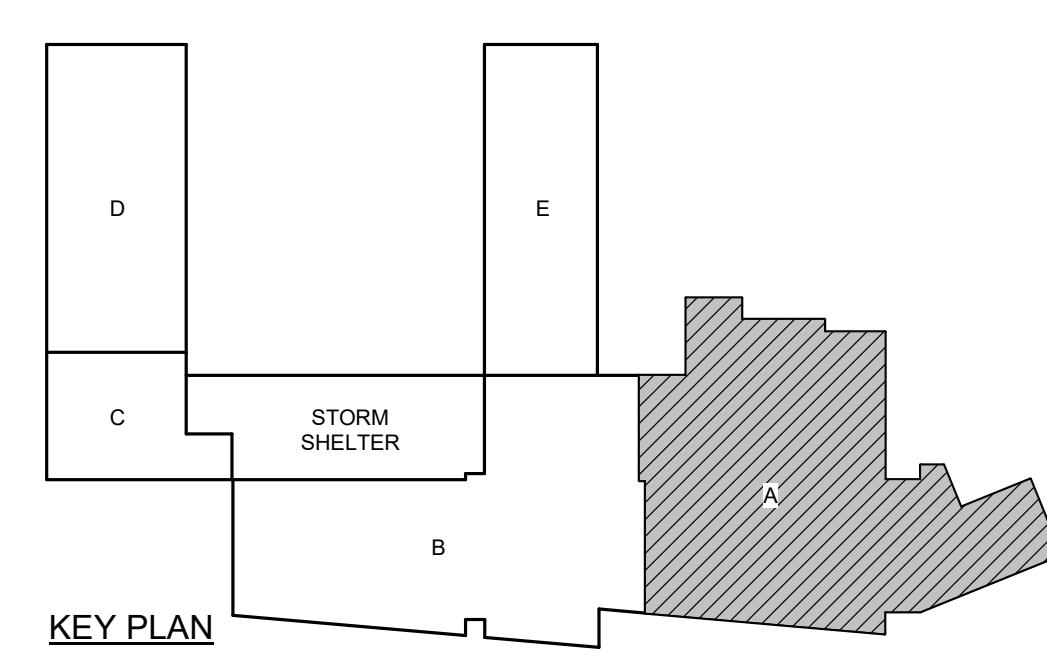
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PART A - FLOOR PLAN - PLUMBING
PIPE PIPING
P1.02
Sheet of

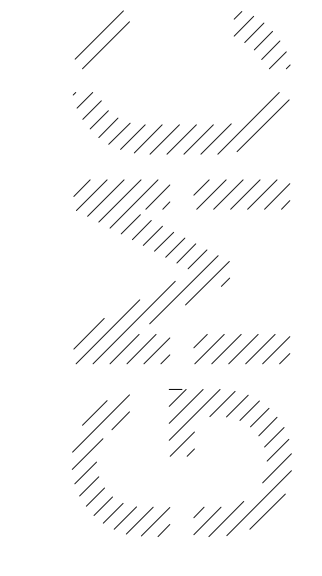
- KEYED NOTES:**
- ① DO NOTE ROUTE PIPING ABOVE ELECTRICAL/DATA ROOMS
 - ② COORDINATE HEIGHT AND LOCATION OF DOWNSPOUT NOZZLES (DS) WITH ARCHITECTURAL ELEVATIONS.



1 PART A - FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
TRUE NORTH



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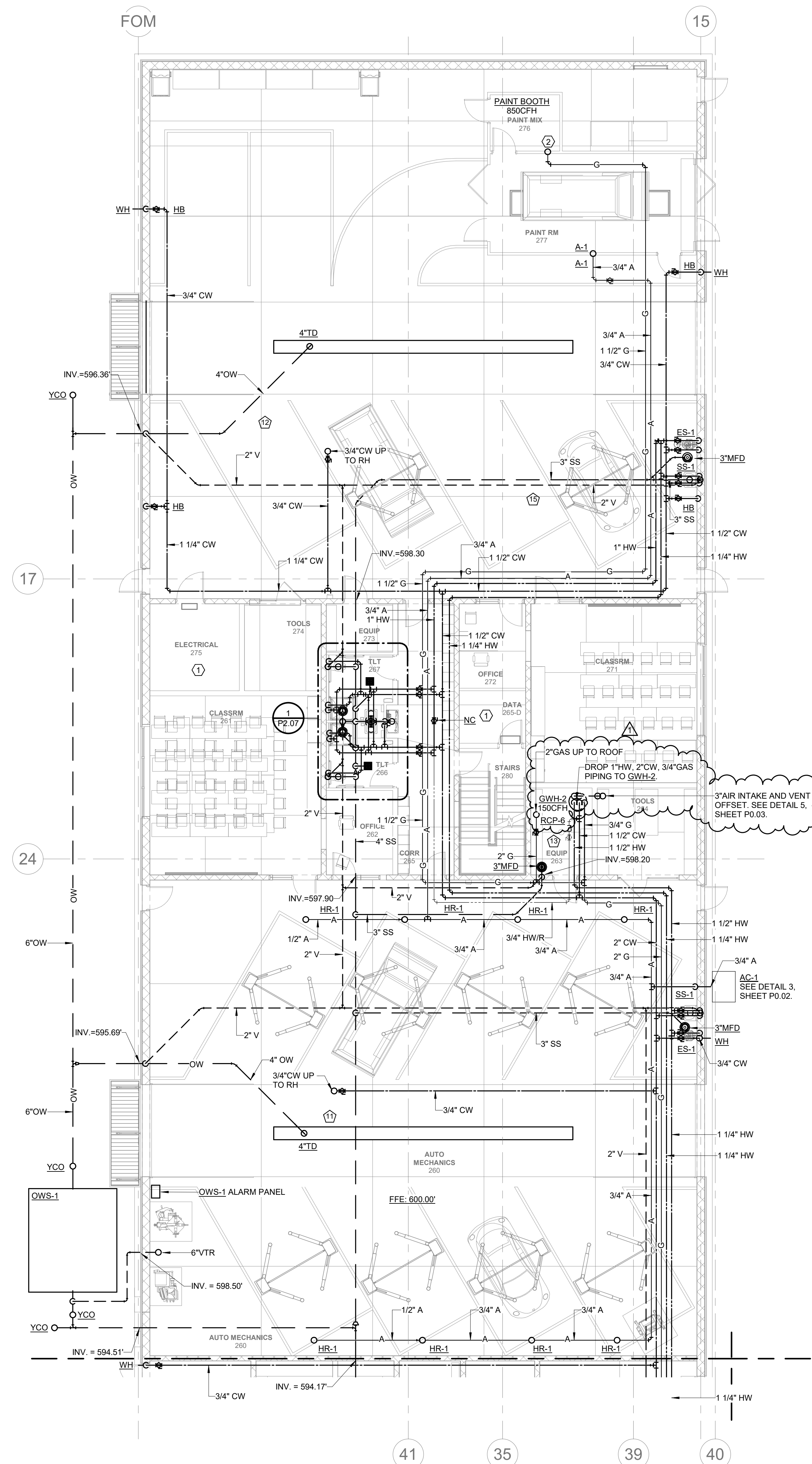
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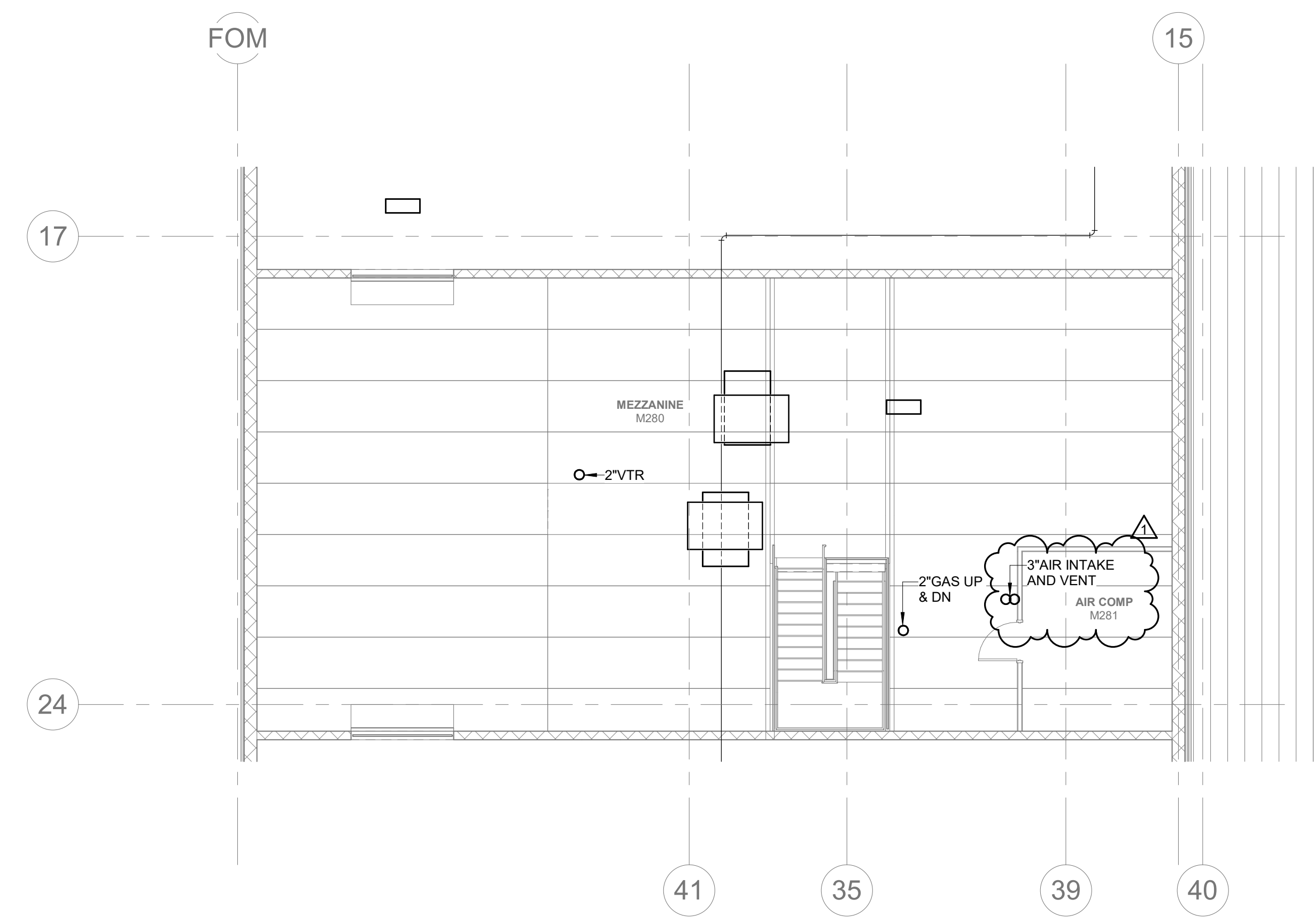
PART C & D - FLOOR PLANS - PLUMBING PIPING
PROJECT 12-22-0082
P1.04
Sheet of

KEYED NOTES:

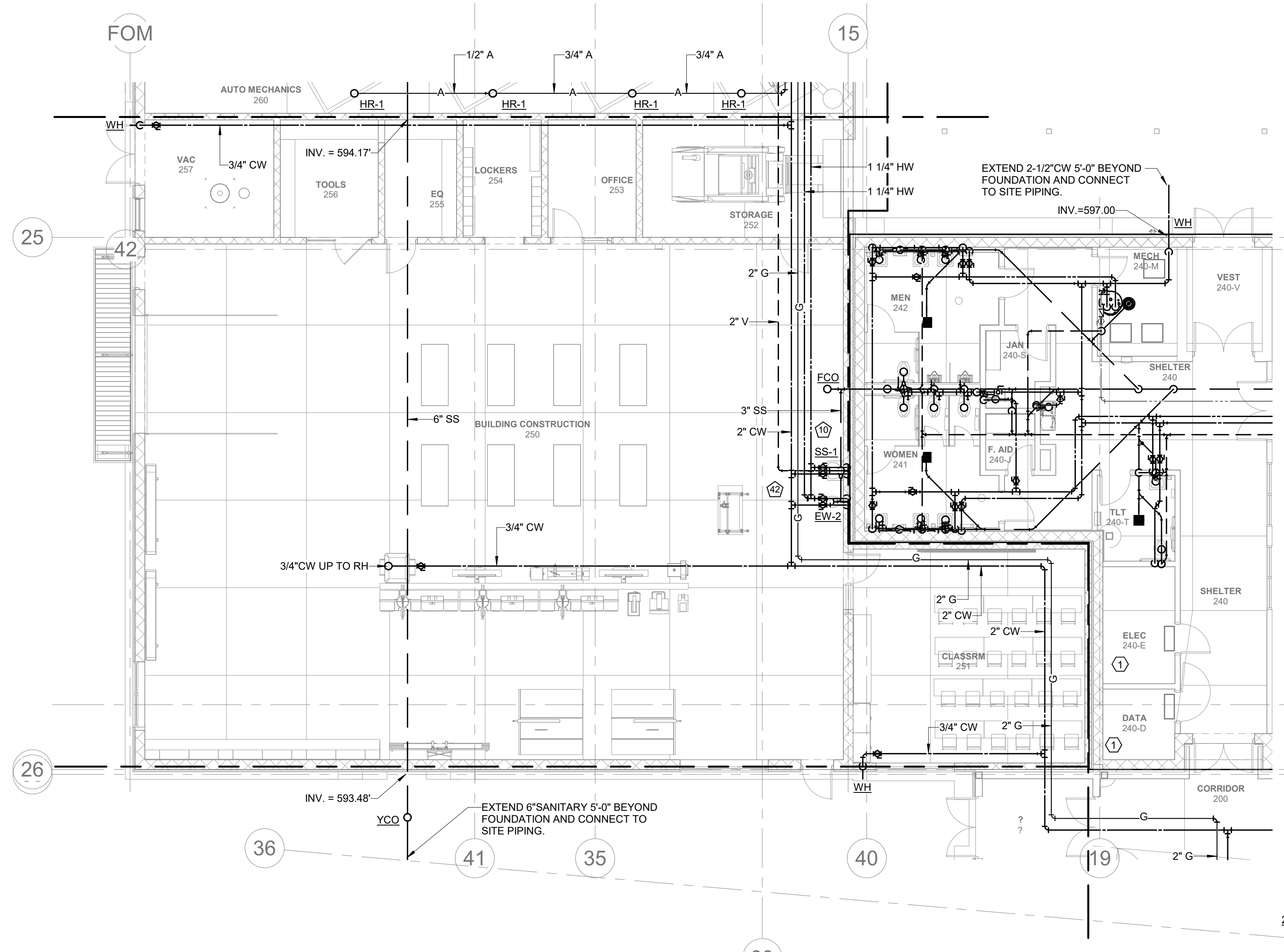
- ① DO NOT ROUTE PIPING OVER ELECTRICAL/DATA ROOMS
- ② COORDINATE LOCATION OF GAS CONNECTION AND GAS INPUT WITH PAINT BOOTH MANUFACTURER SHOP DRAWINGS.



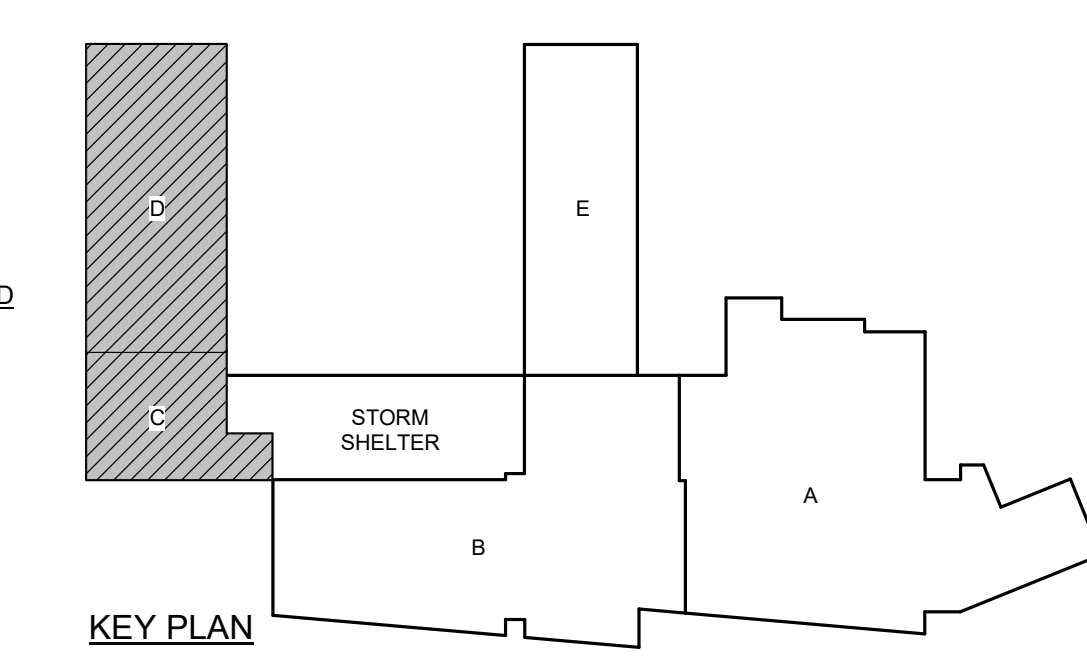
1 PART D - FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
TRUE NORTH



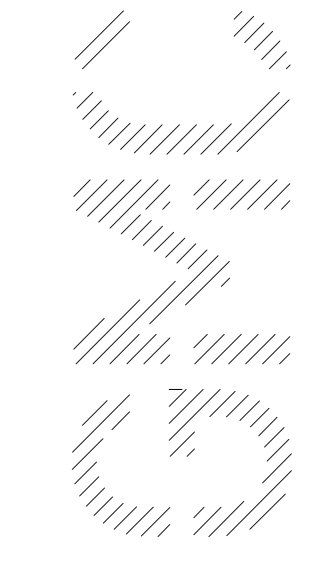
2 AUTO MEZZ - FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
TRUE NORTH



3 PART C - FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
TRUE NORTH



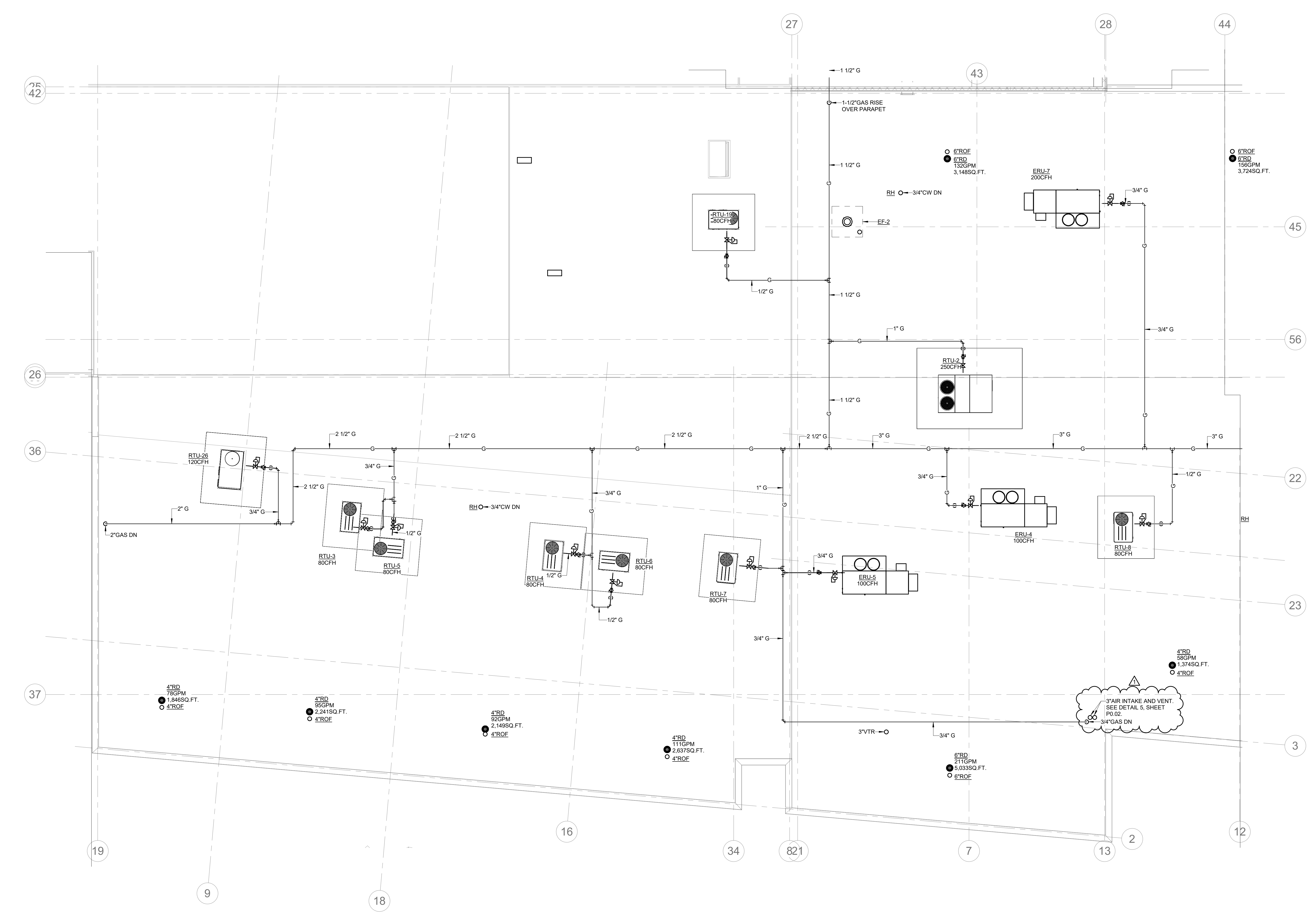
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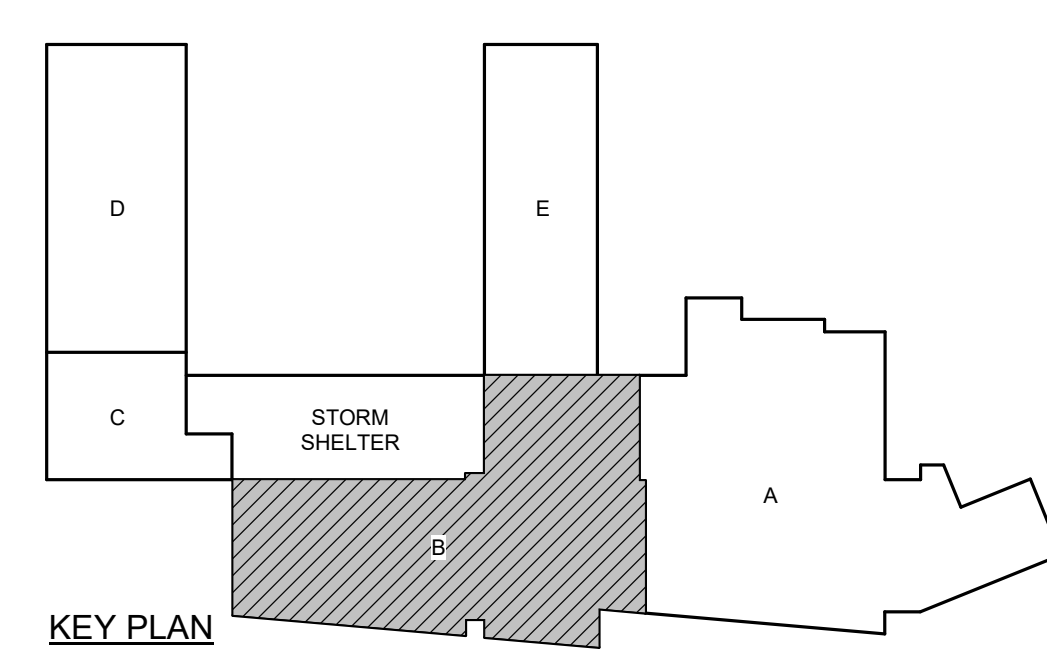
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1 PART B - ROOF PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
TRUE NORTH

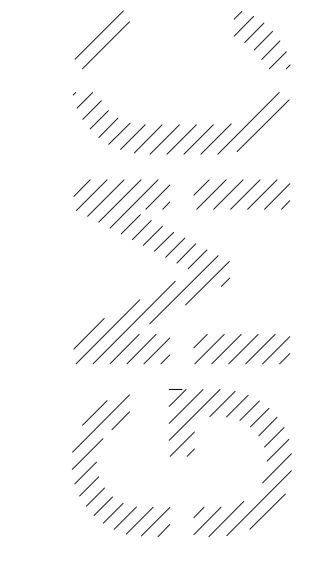


**PART B - ROOF PLAN
- PLUMBING PIPING**

PROJECT 12-22-0082

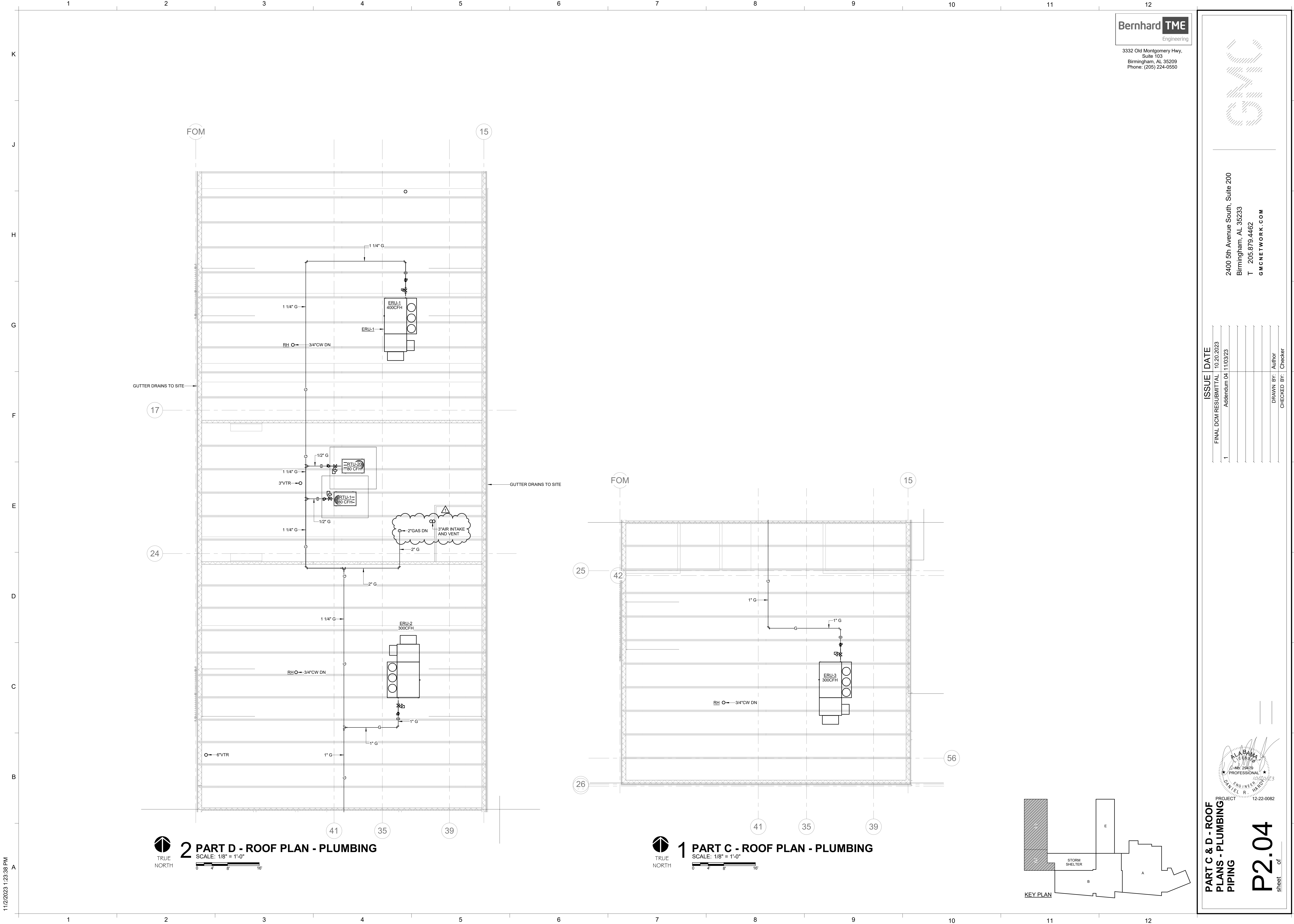
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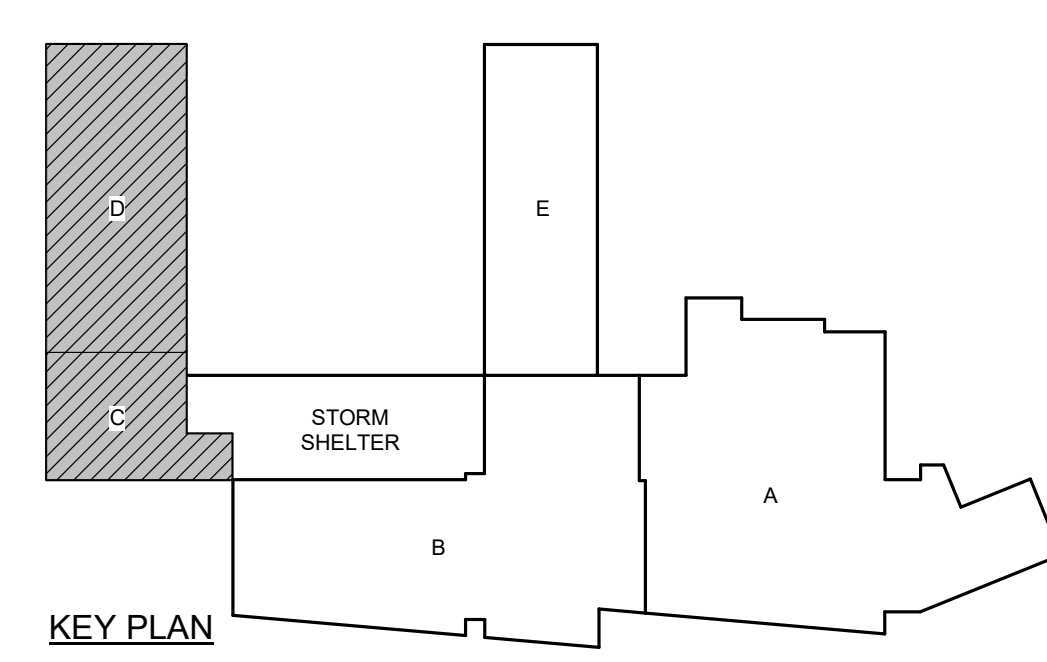
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2 PART D - ROOF PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
TRUE NORTH

1 PART C - ROOF PLAN - PLUMBING
SCALE: 1/8" = 1'-0"
TRUE NORTH



PART C & D - ROOF PLANS - PLUMBING PIPING
PROJECT 12-22-0082
P2.04
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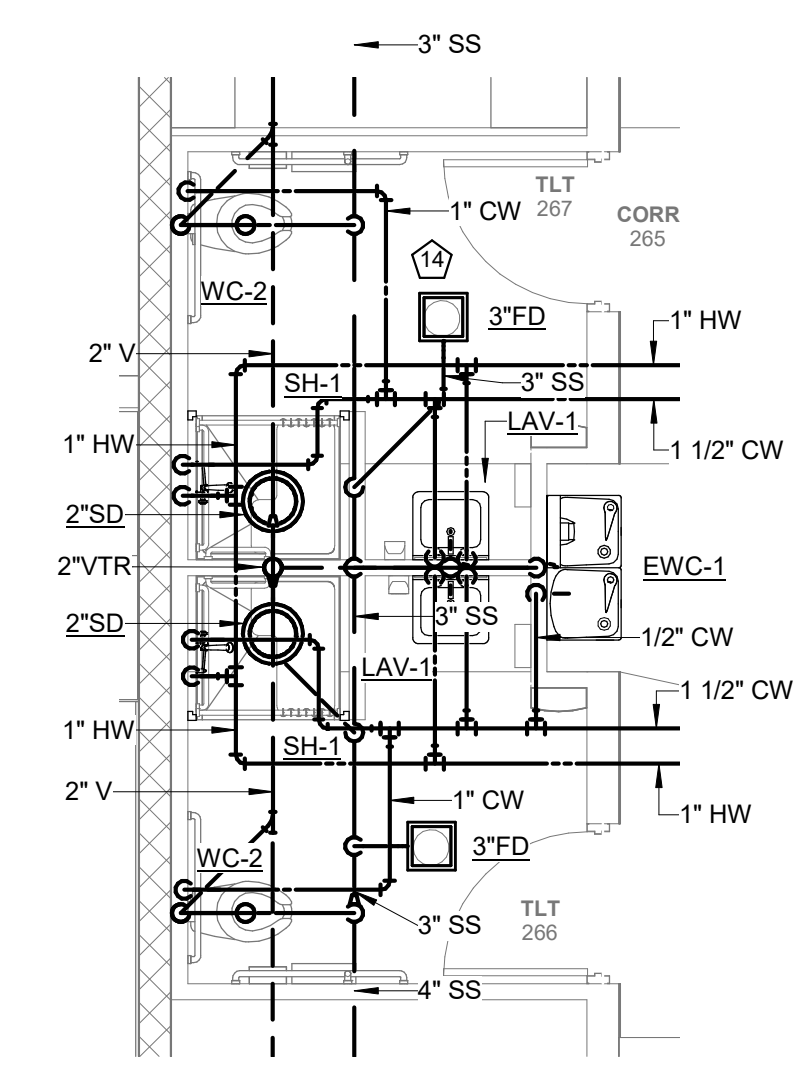


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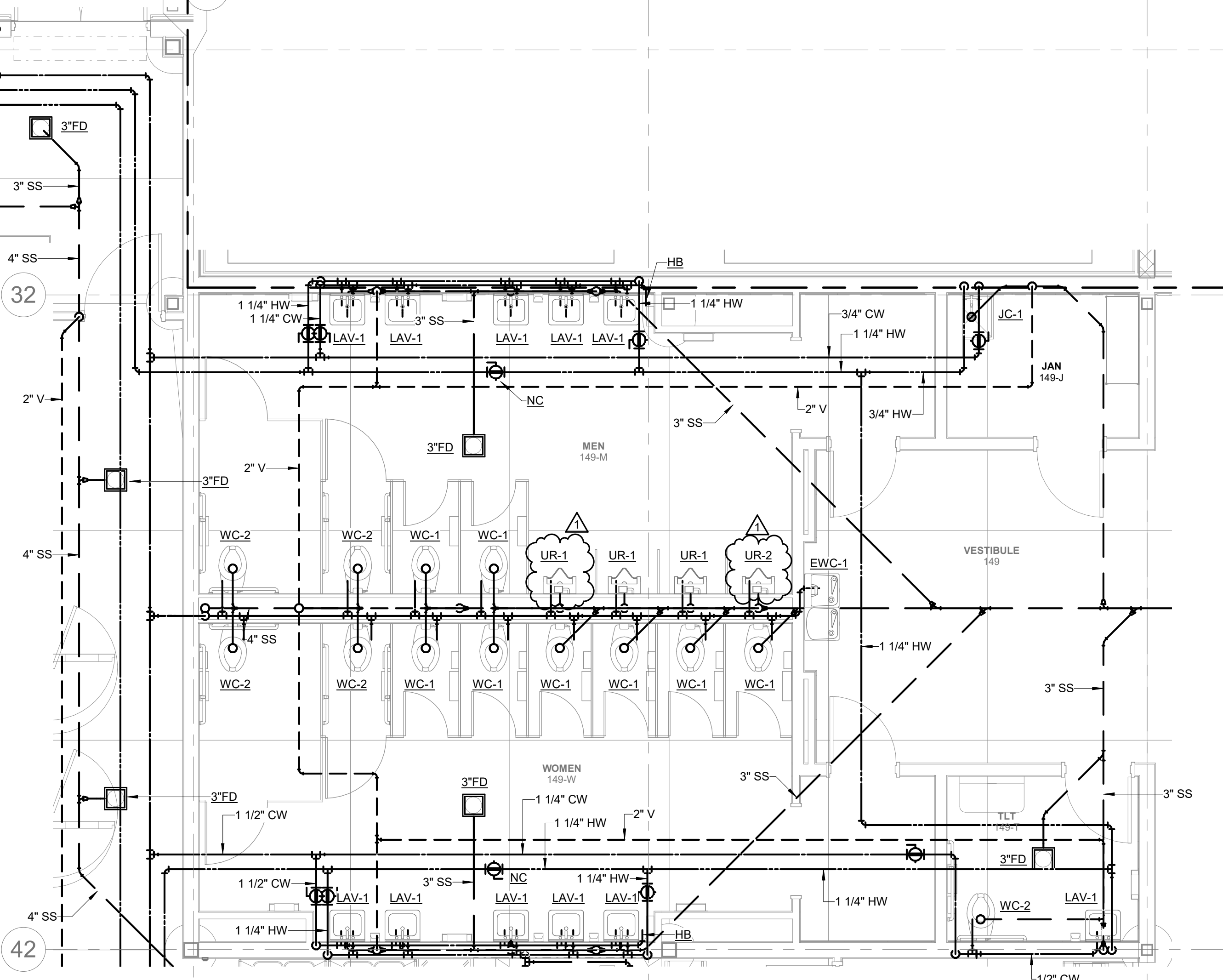
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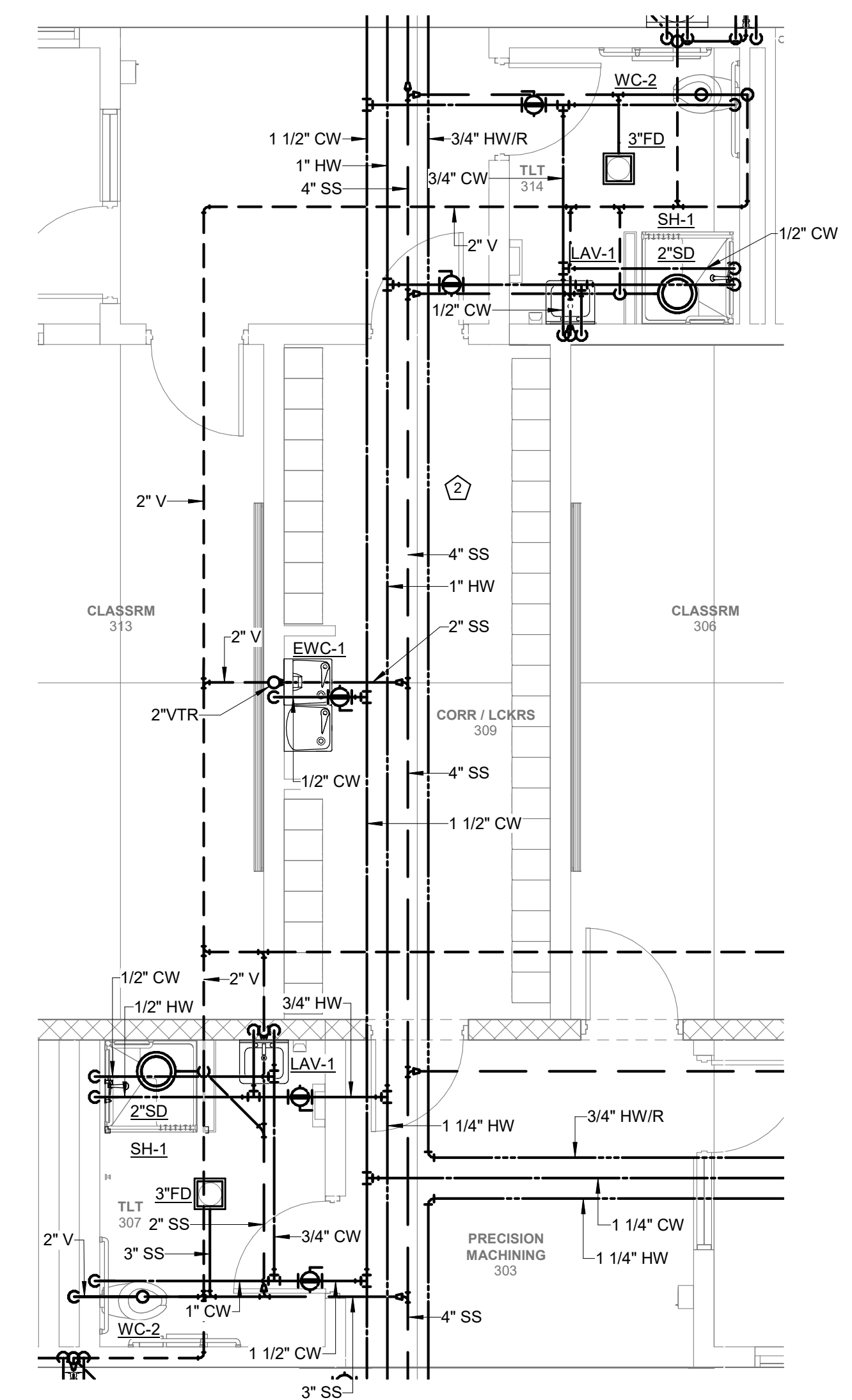
1 ENLARGED PLANS - TLT 124 & TLT 125 - PLUMBING
SCALE: 1/4" = 1'-0"



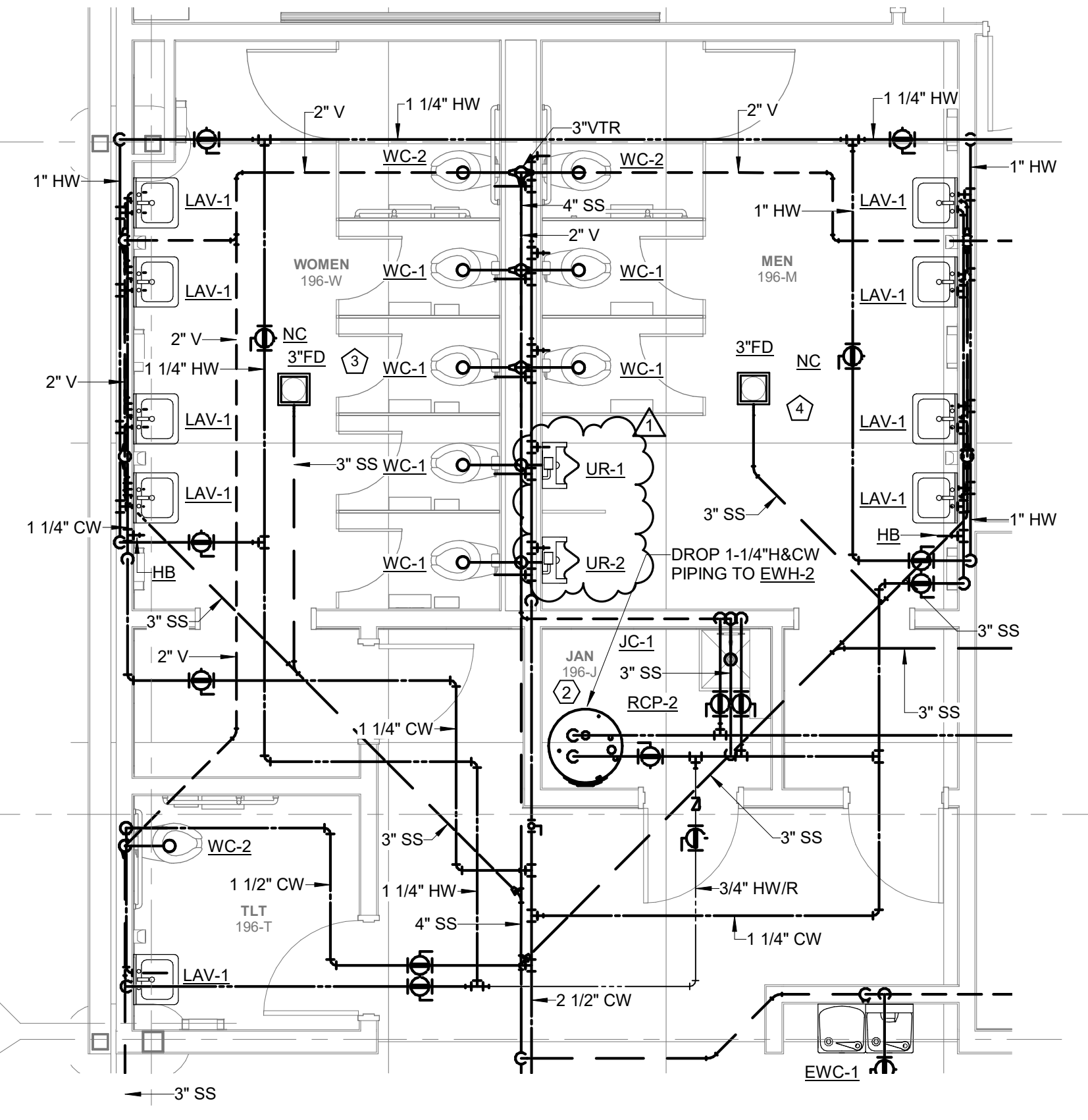
2 ENLARGED PLANS - MEN 287, WOMEN 290, JAN 288 & TLT 289 - PLUMBING
SCALE: 1/4" = 1'-0"



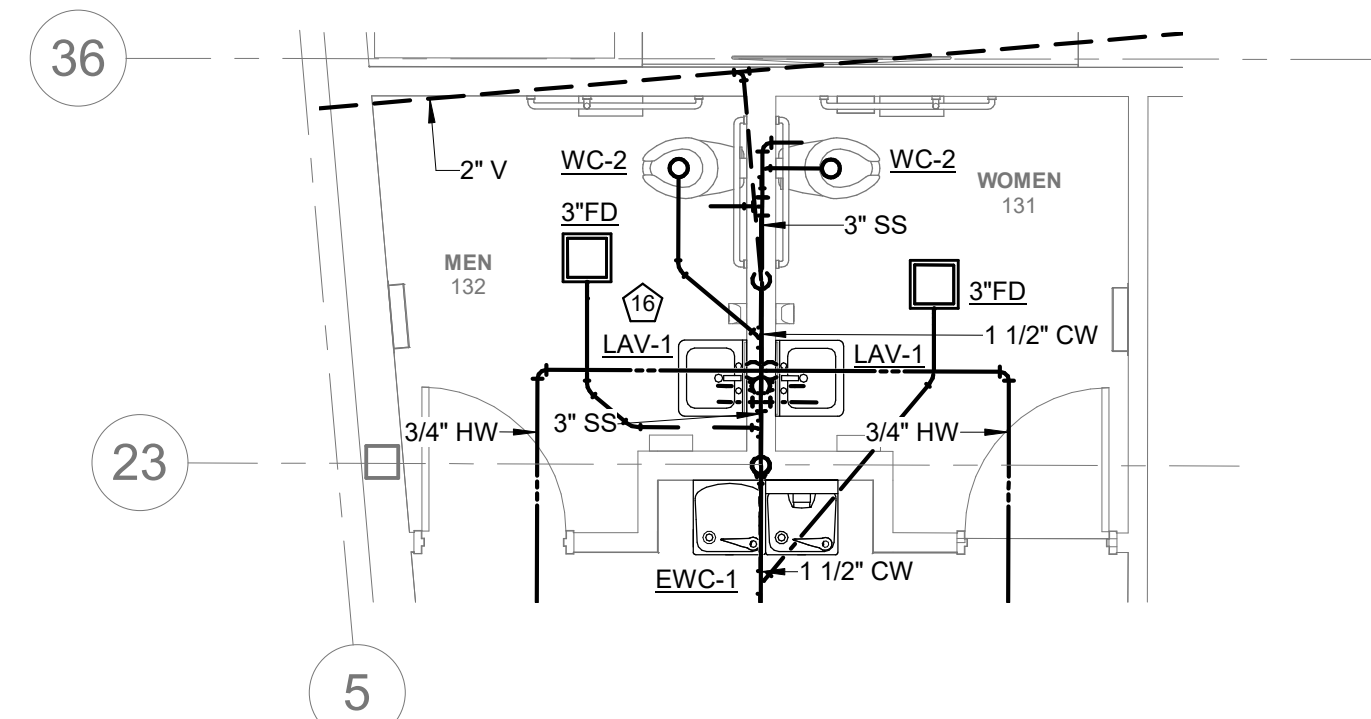
3 ENLARGED PLANS - TLT 305 & TLT 326 - PLUMBING
SCALE: 1/4" = 1'-0"



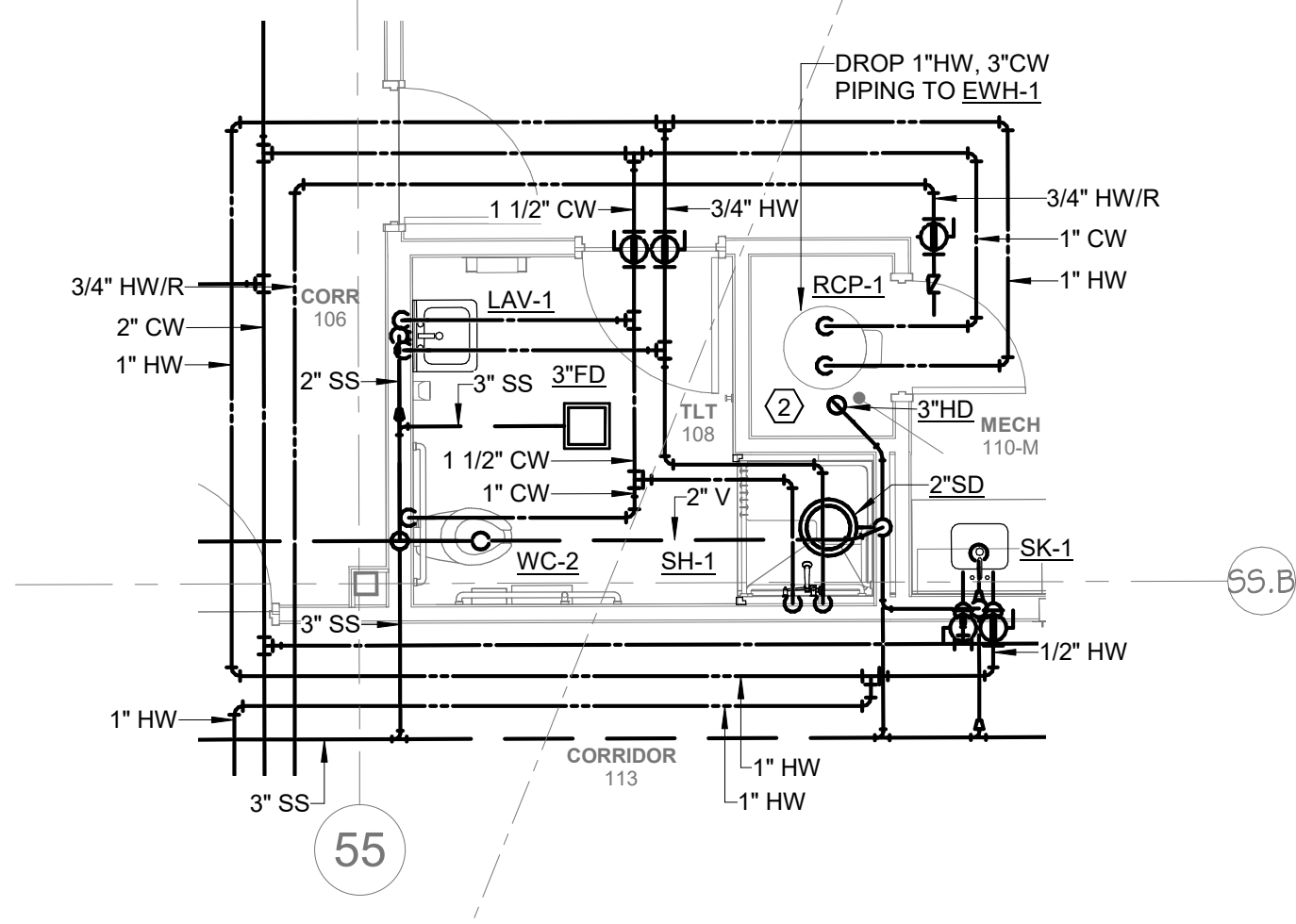
4 ENLARGED PLANS - MEN 399, WOMEN 394, JAN 400 & TLT 393 - PLUMBING
SCALE: 1/4" = 1'-0"



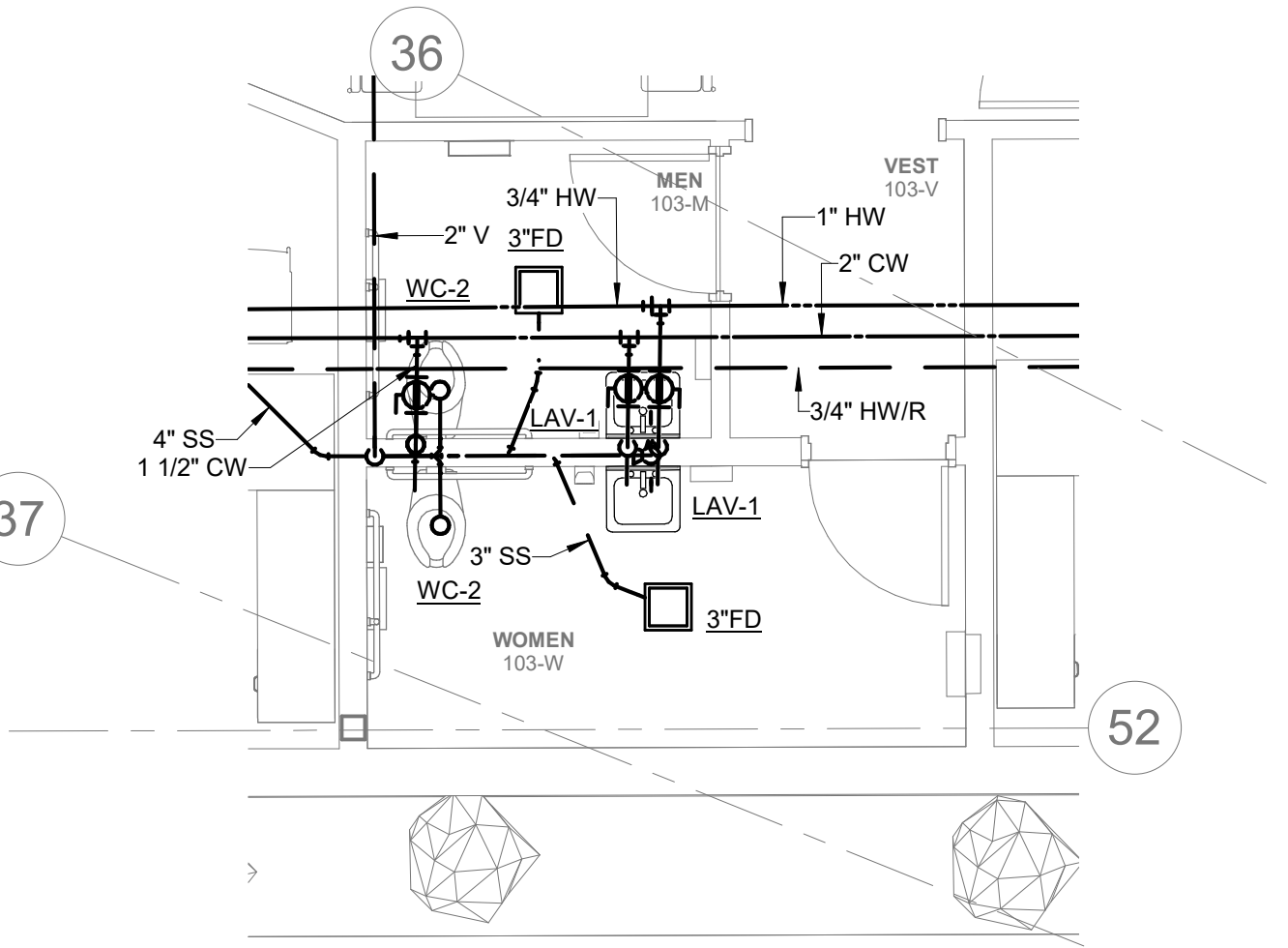
6 ENLARGED PLANS - TLT 212 & TLT 213 - PLUMBING
SCALE: 1/4" = 1'-0"



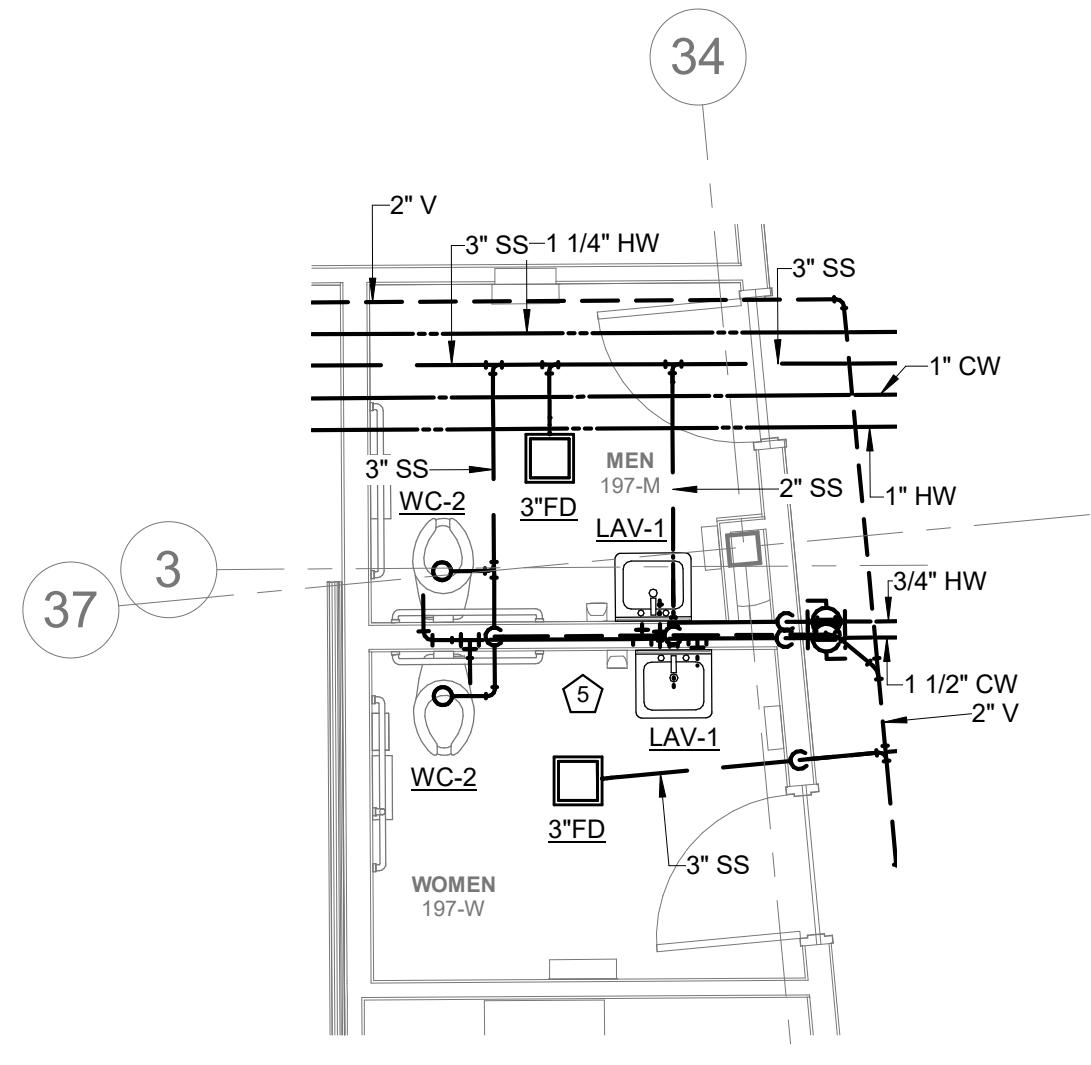
9 ENLARGED PLANS - TLT 108 & MECH 110-M - PLUMBING
SCALE: 1/4" = 1'-0"



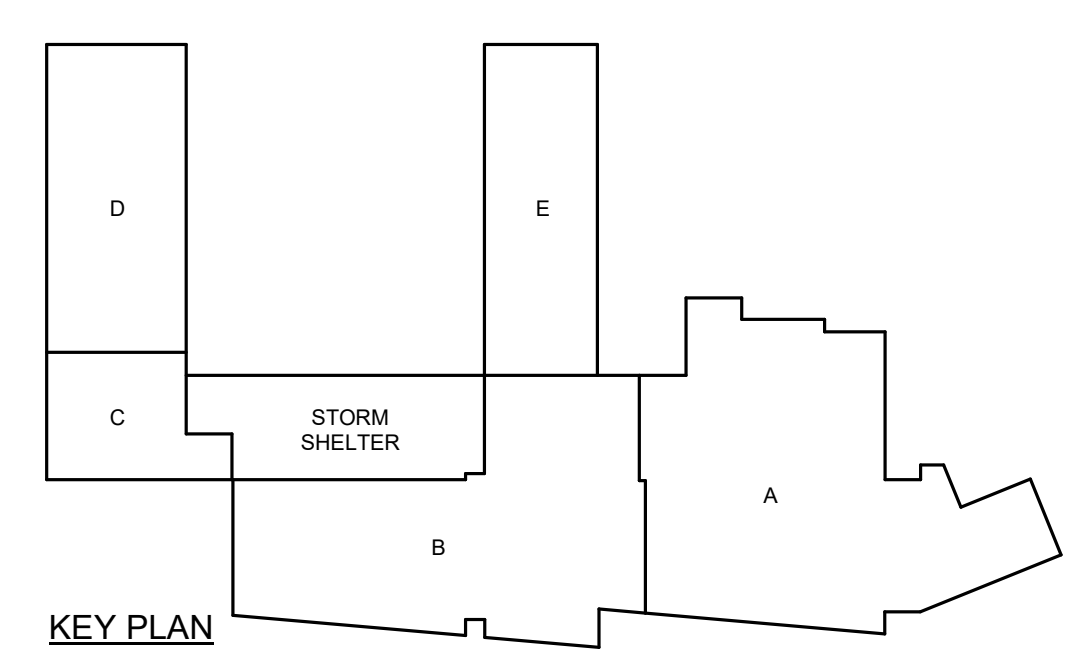
5 ENLARGED PLANS - TLT 199 & TLT 200 - PLUMBING
SCALE: 1/4" = 1'-0"



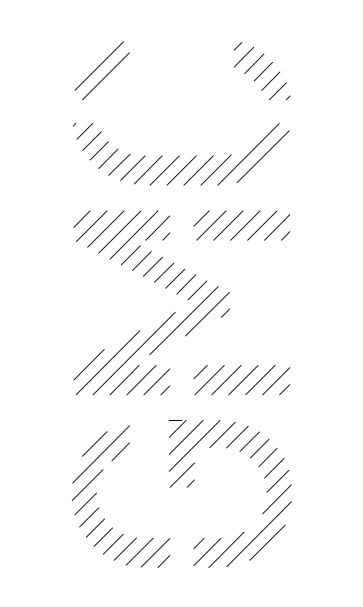
7 ENLARGED PLANS - MEN 421 & WOMEN 420 - PLUMBING
SCALE: 1/4" = 1'-0"



- KEYED NOTES:**
- ① DO NOT ROUTE PIPING ABOVE DATA ROOM
 - ② EWH SHOWN HERE FOR GRAPHICAL PURPOSES ONLY. COORDINATE LOCATION WITH ARCH.



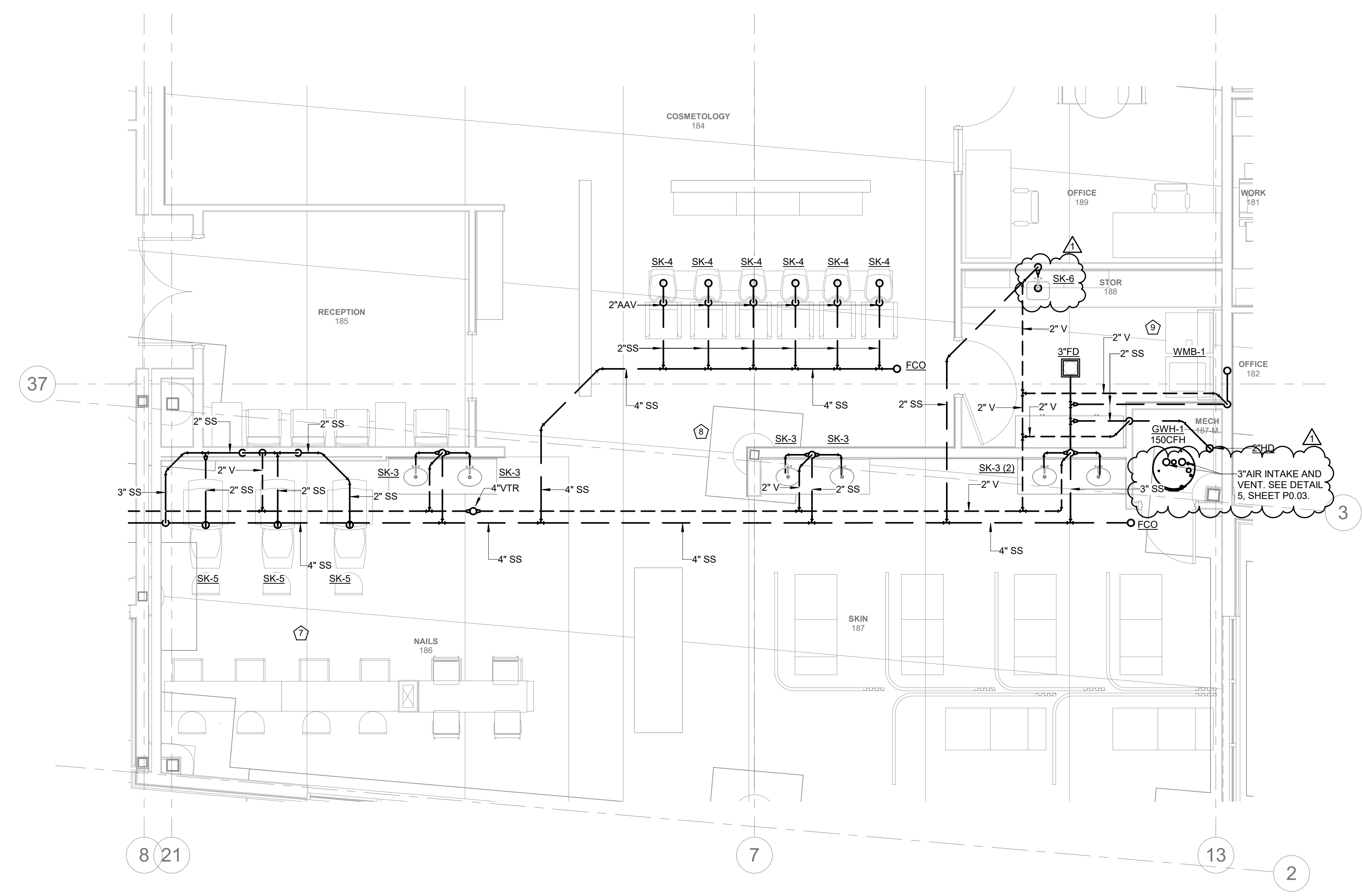
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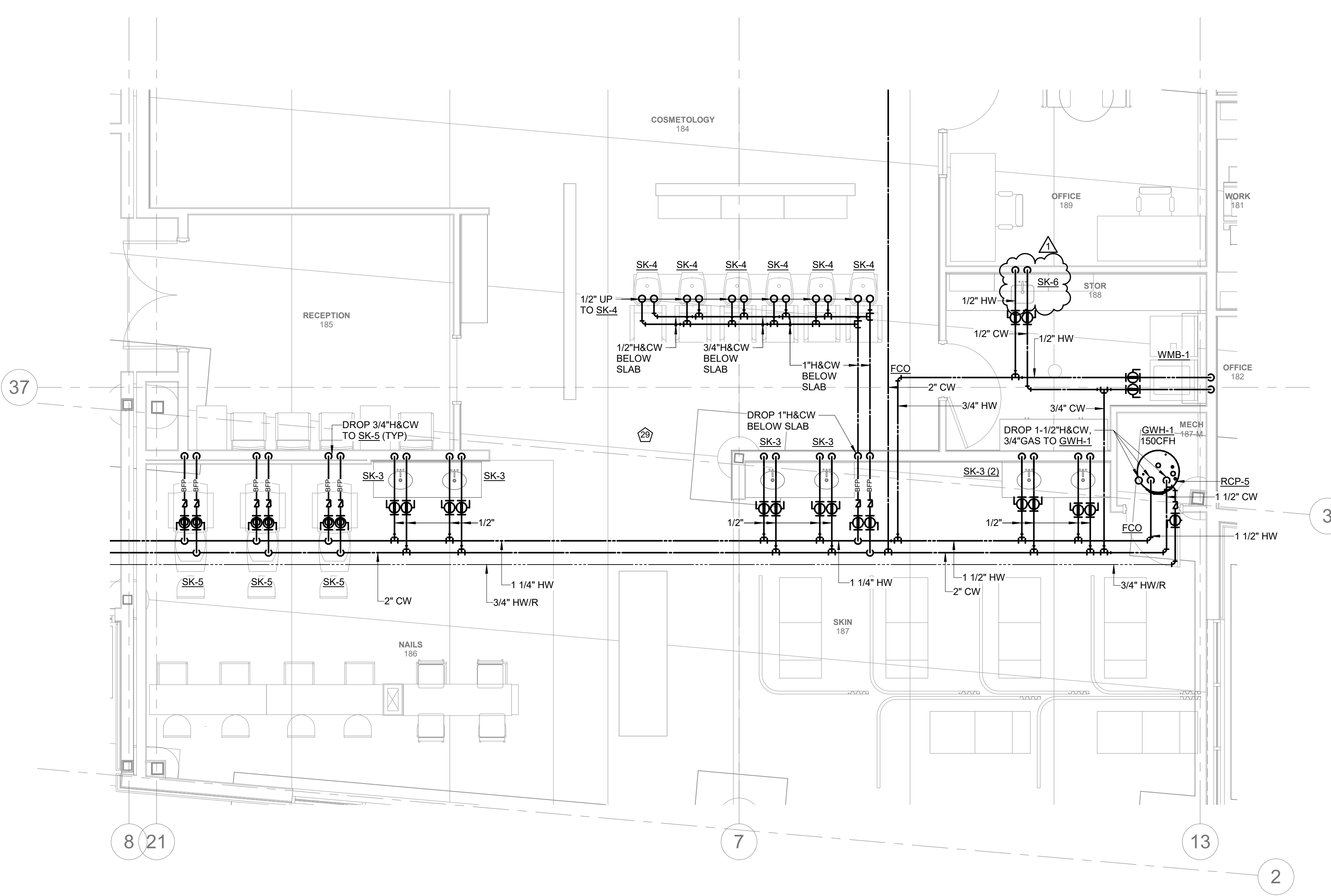
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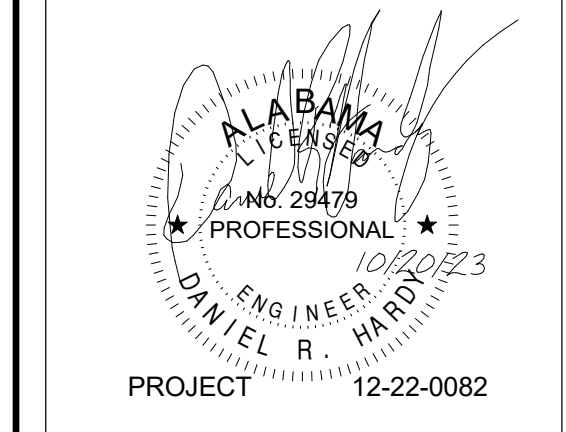
1 ENLARGED PLANS - NAILS 186, SKIN 187, STOR. 188, AND COSMETOLOGY 184 - SANITARY

SCALE: 1/4" = 1'-0"
0 4 8 16

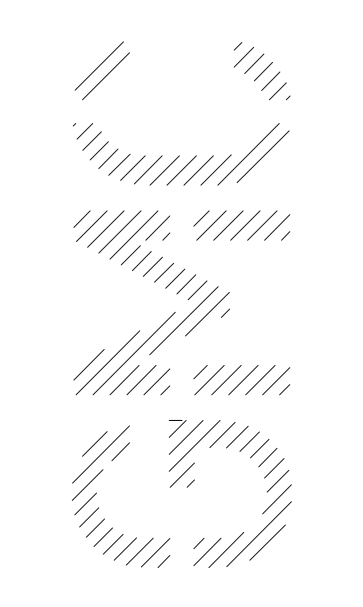


2 ENLARGED PLANS - NAILS 186, SKIN 187, STOR. 188, AND COSMETOLOGY 184 - DOMESTIC

SCALE: 1/4" = 1'-0"
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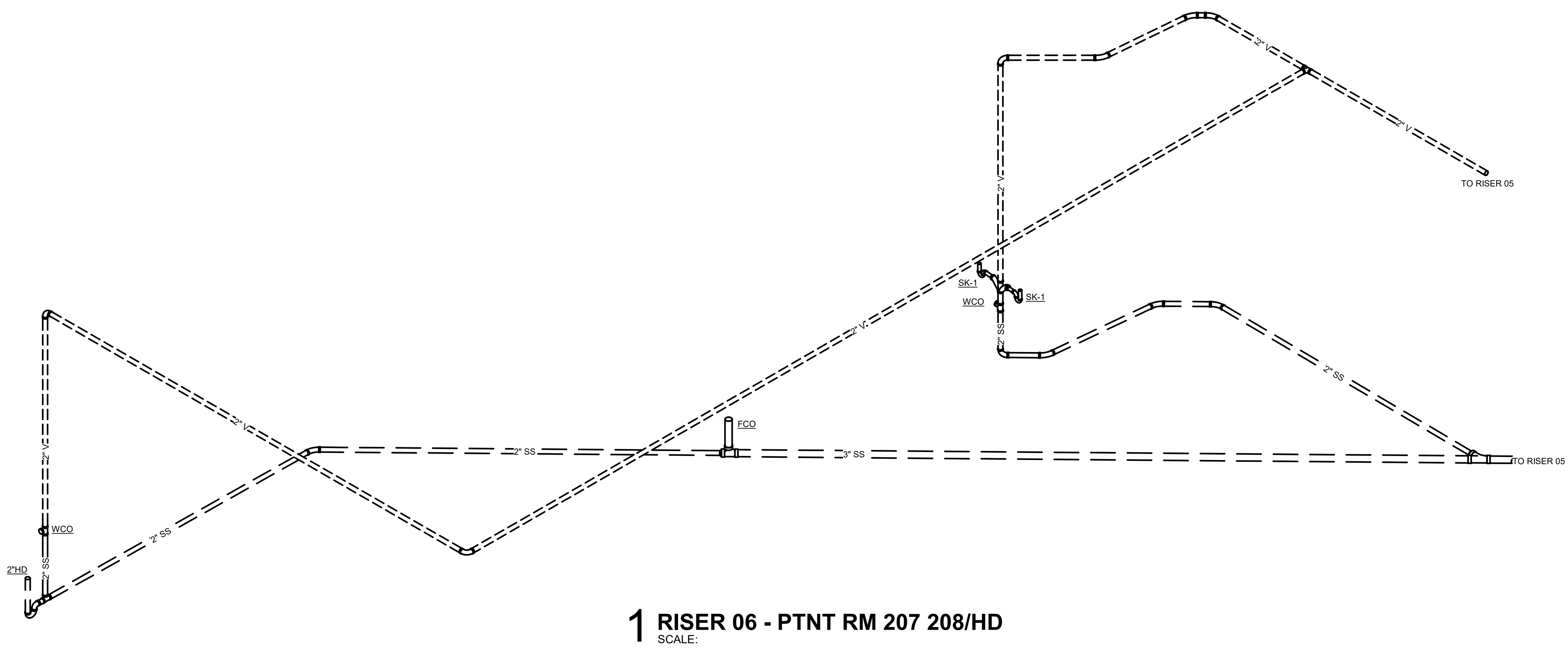
PARTIAL FLOOR PLANS - COSMETOLOGY PLUMBING
P2.09
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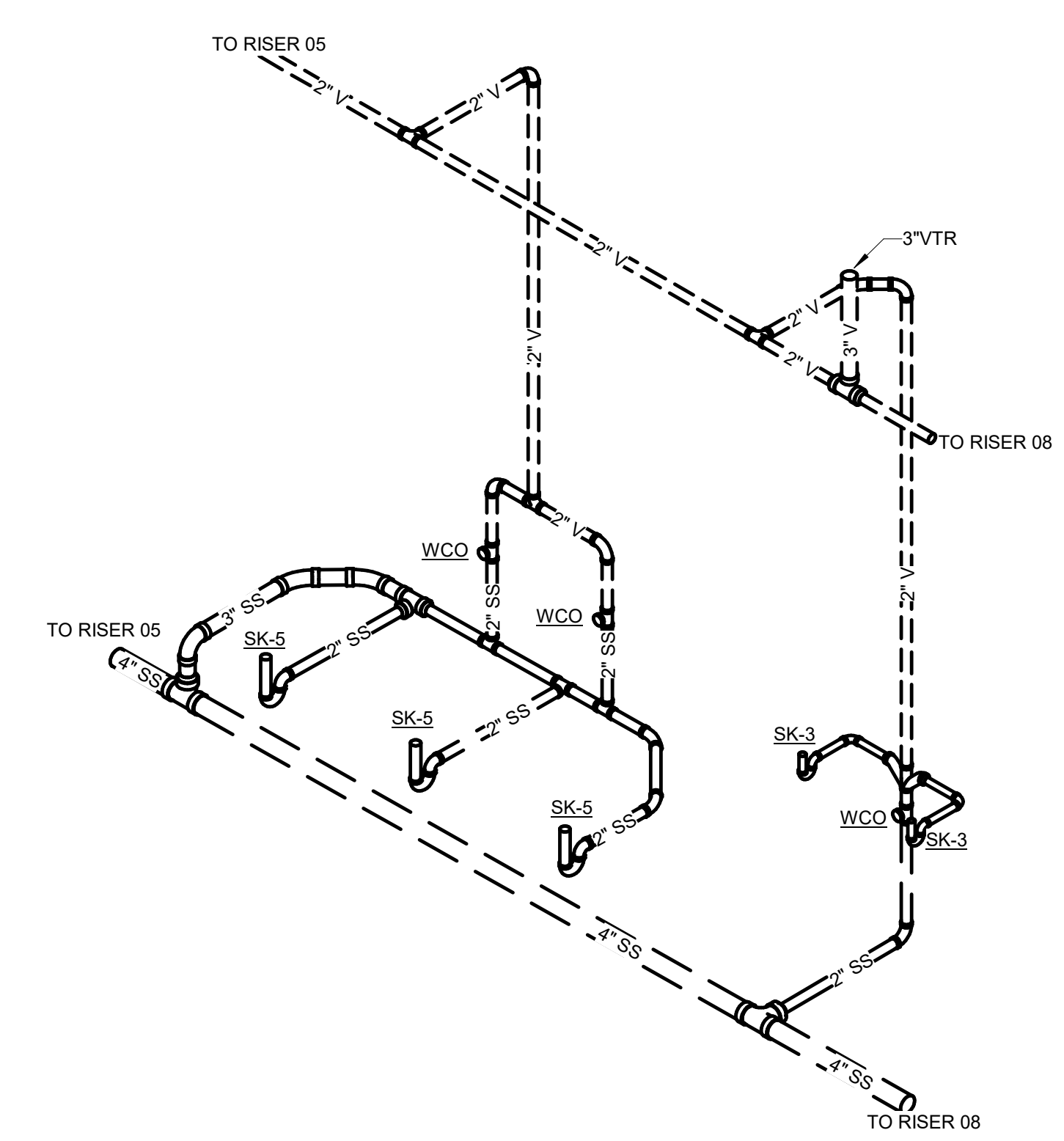
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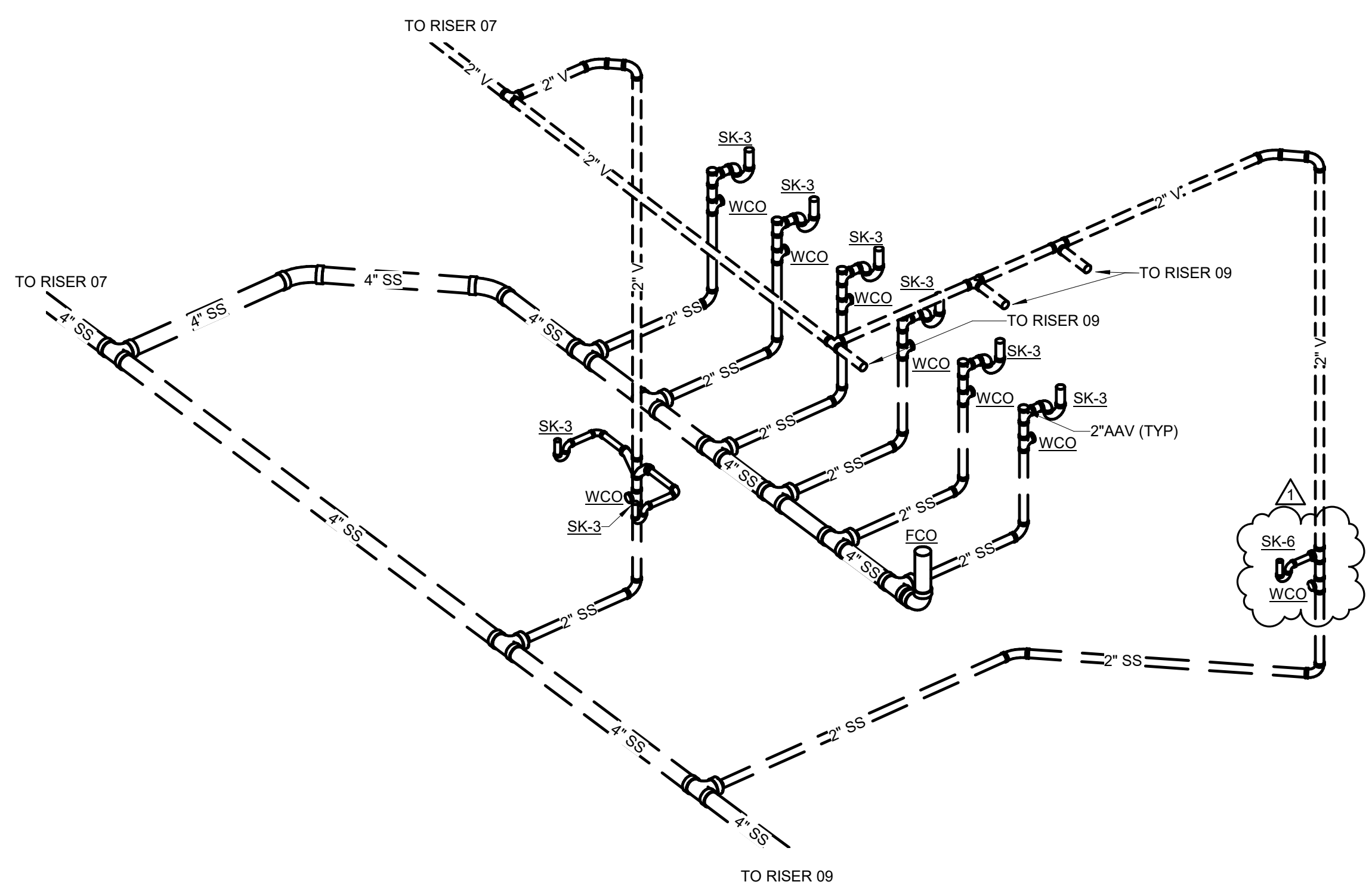
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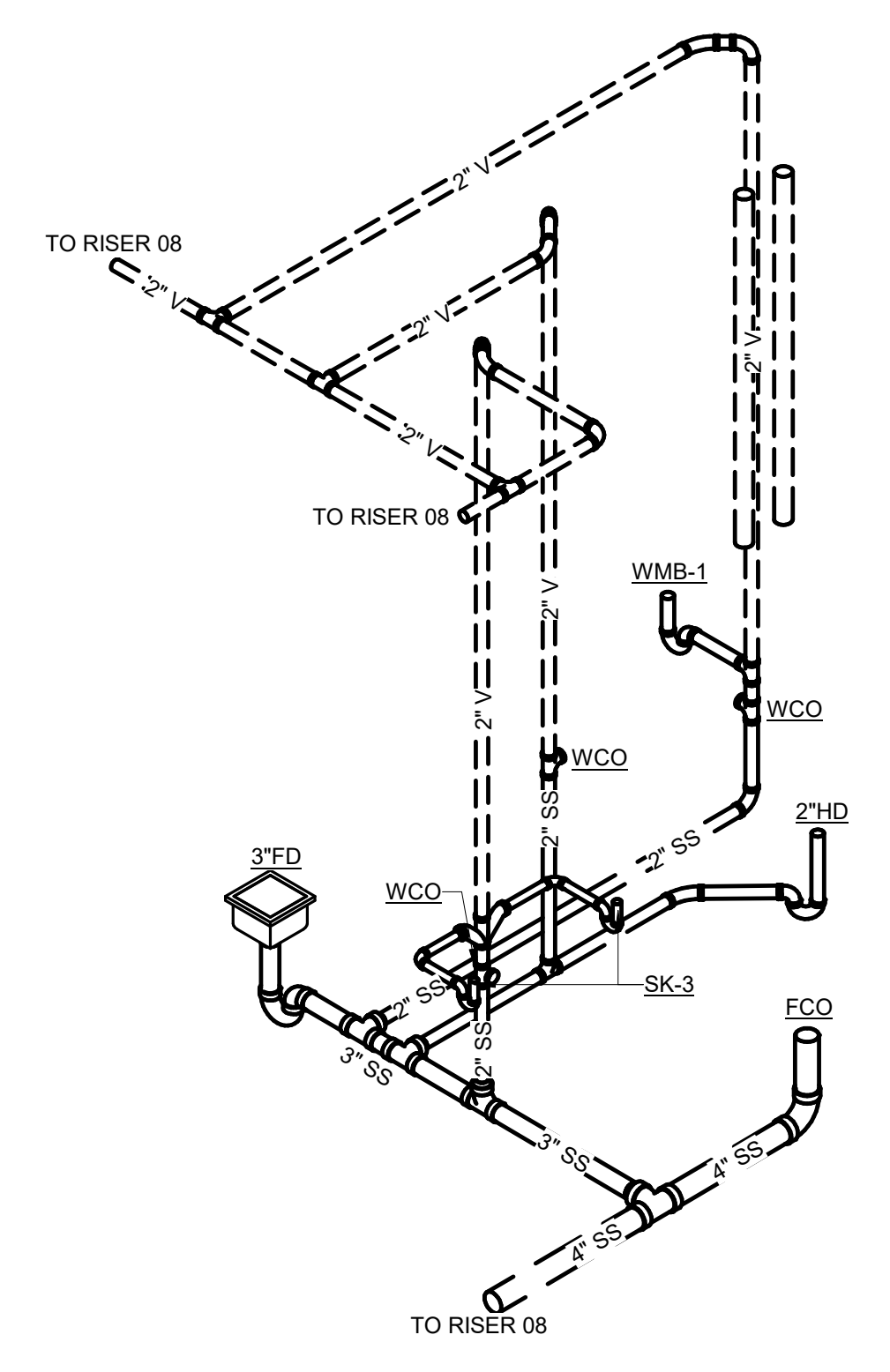
1 RISER 06 - PTNT RM 207 208/HD
SCALE:



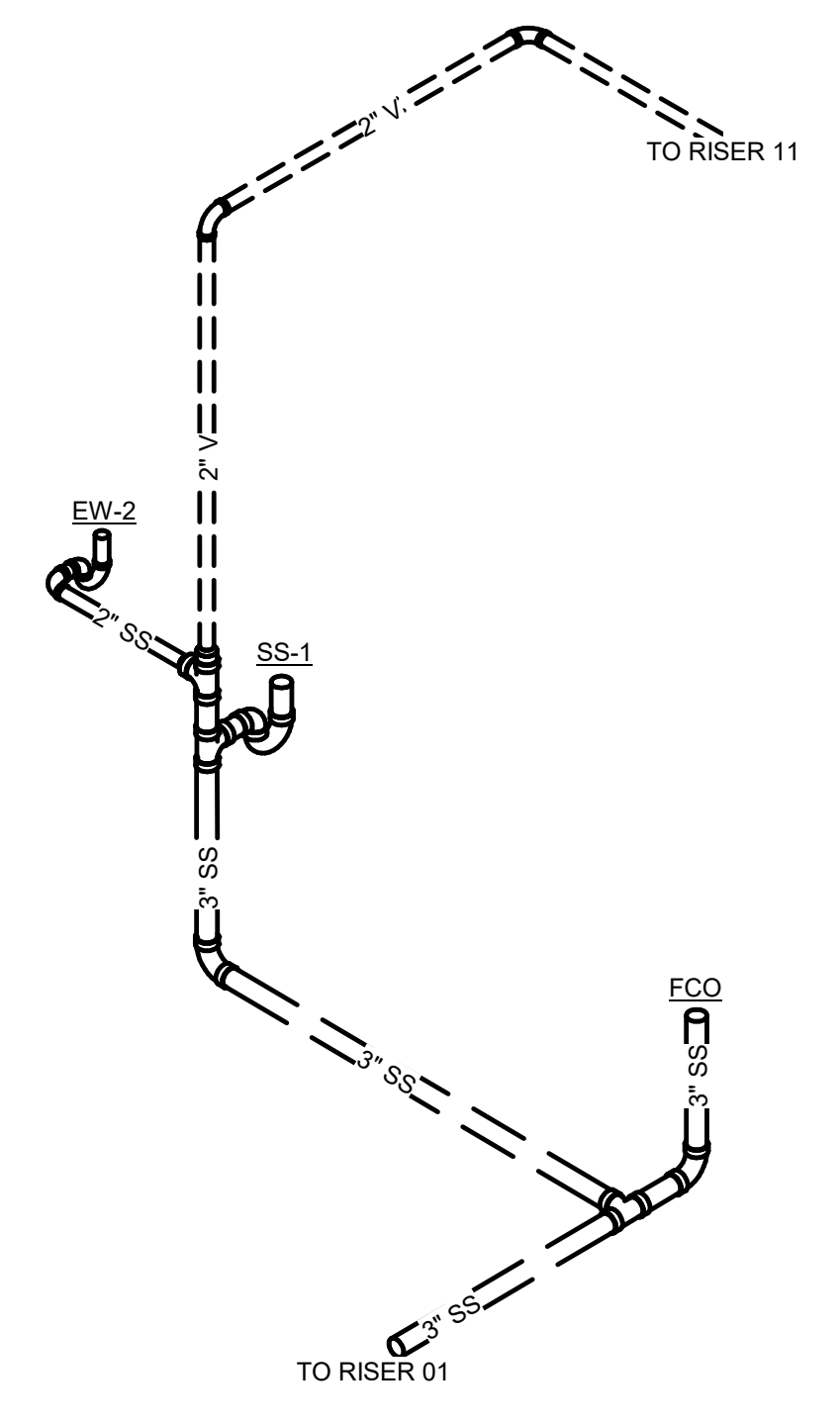
2 RISER 07 - NAILS 186
SCALE:



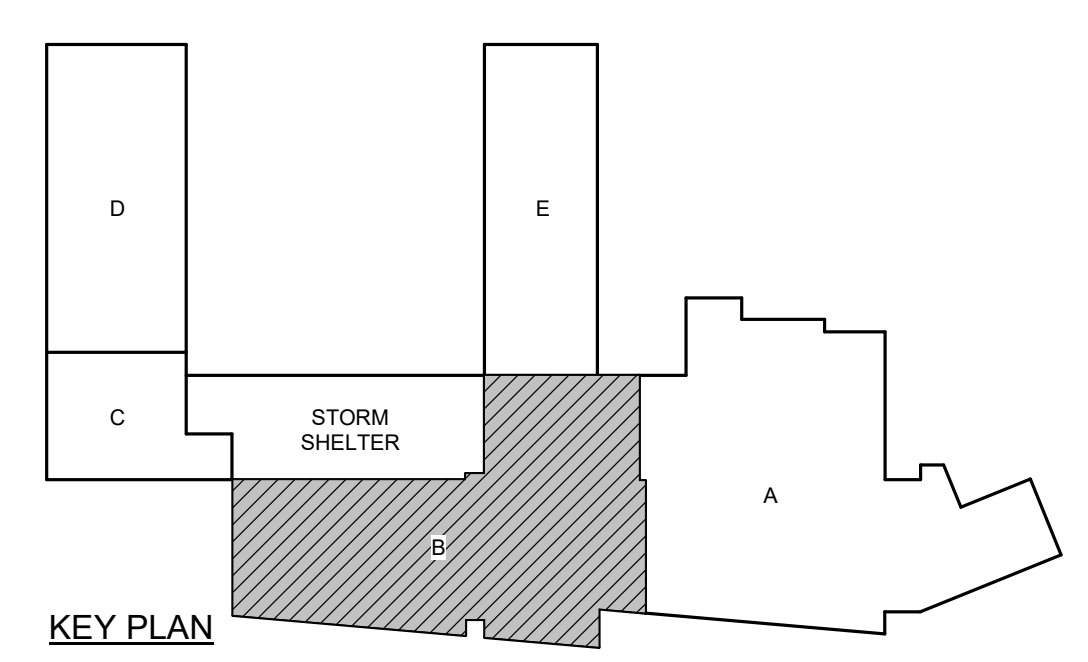
3 RISER 08 - COSMETOLOGY 184
SCALE:



4 RISER 09 - MECH 187/STOR 188
SCALE:



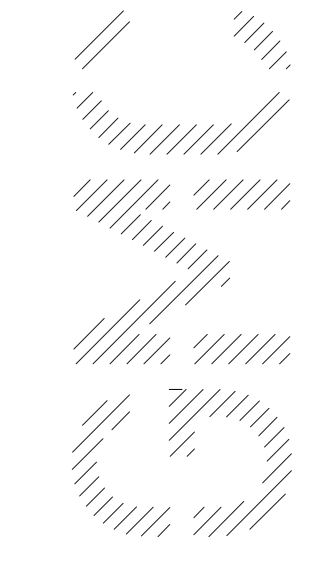
5 RISER 10 - TOOLS 256
SCALE:



RISERS - SANITARY
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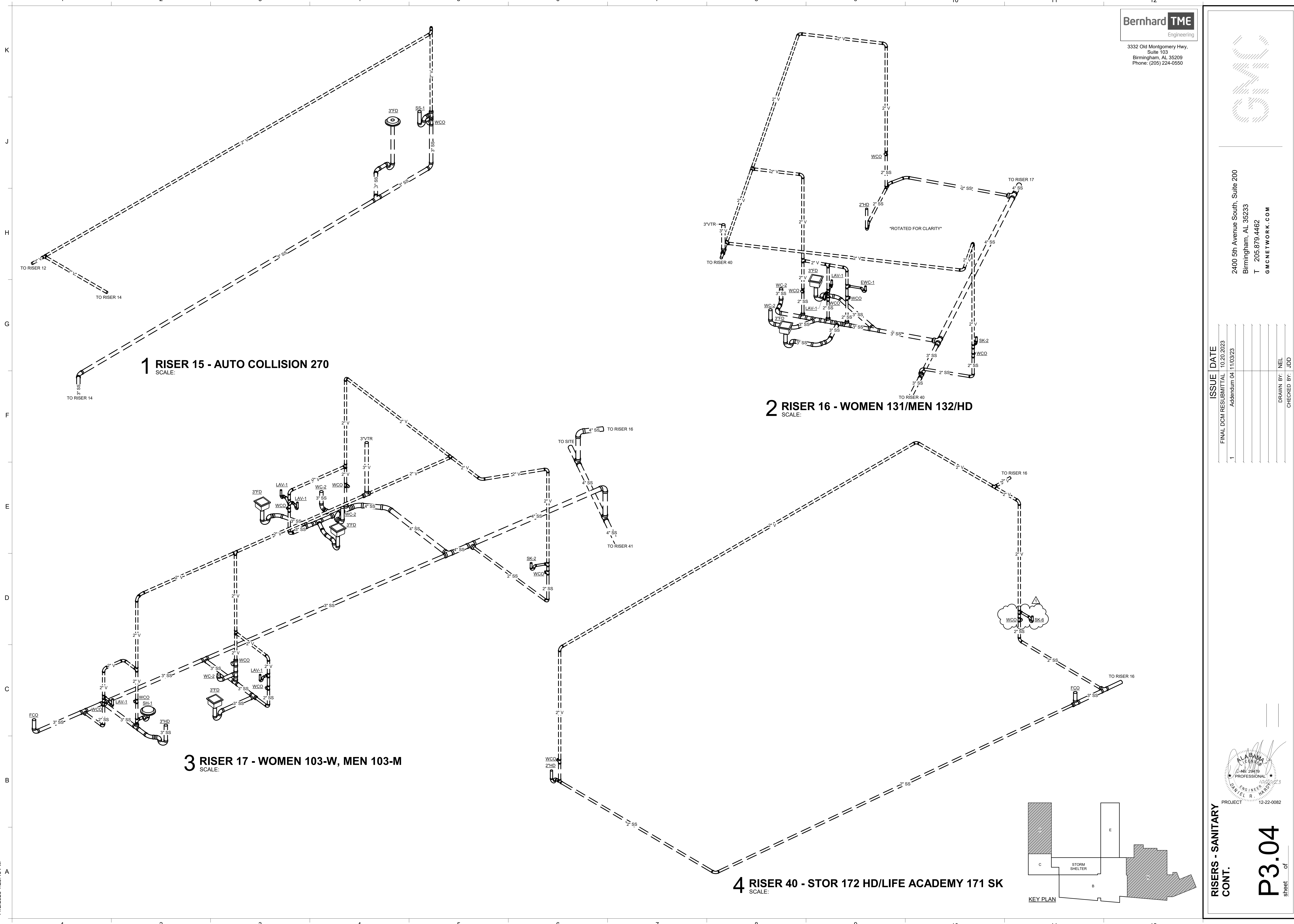
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**RISERS - SANITARY
CONT.**

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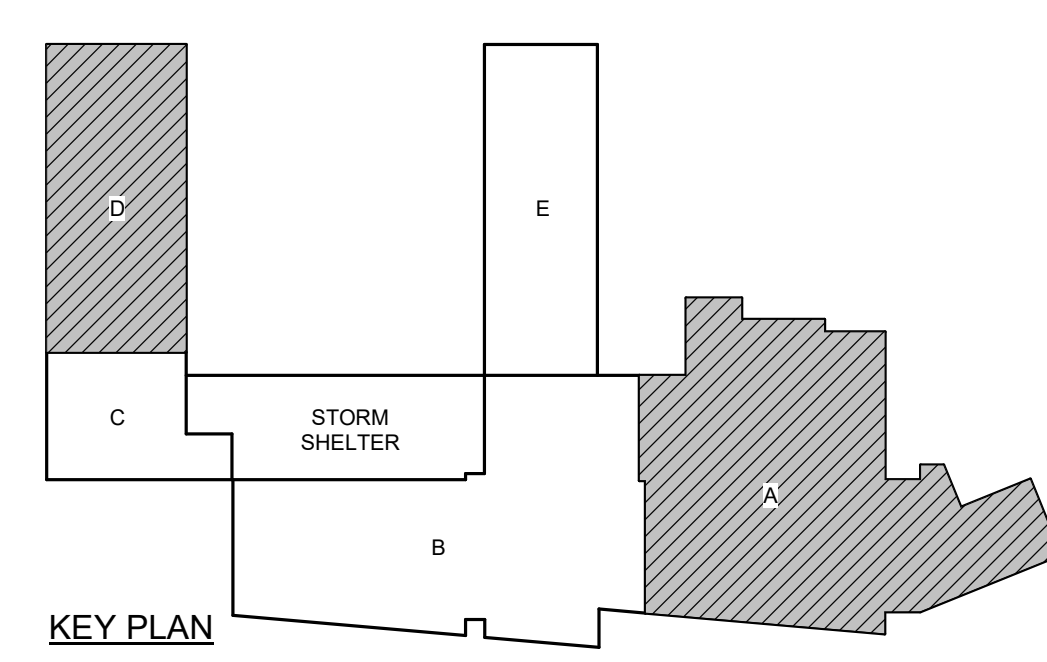


1 RISER 15 - AUTO COLLISION 270
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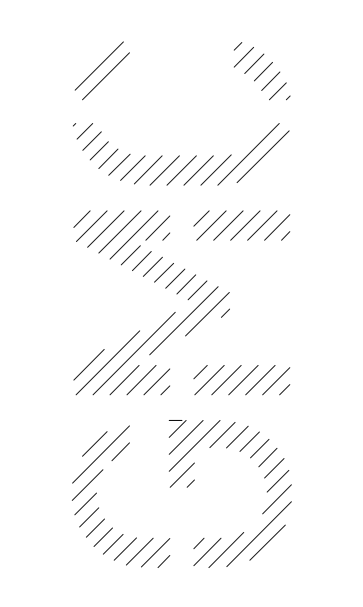
2 RISER 16 - WOMEN 131/MEN 132/HD
SCALE:

3 RISER 17 - WOMEN 103-W, MEN 103-M
SCALE:

4 RISER 40 - STOR 172 HD/LIFE ACADEMY 171 SK
SCALE:



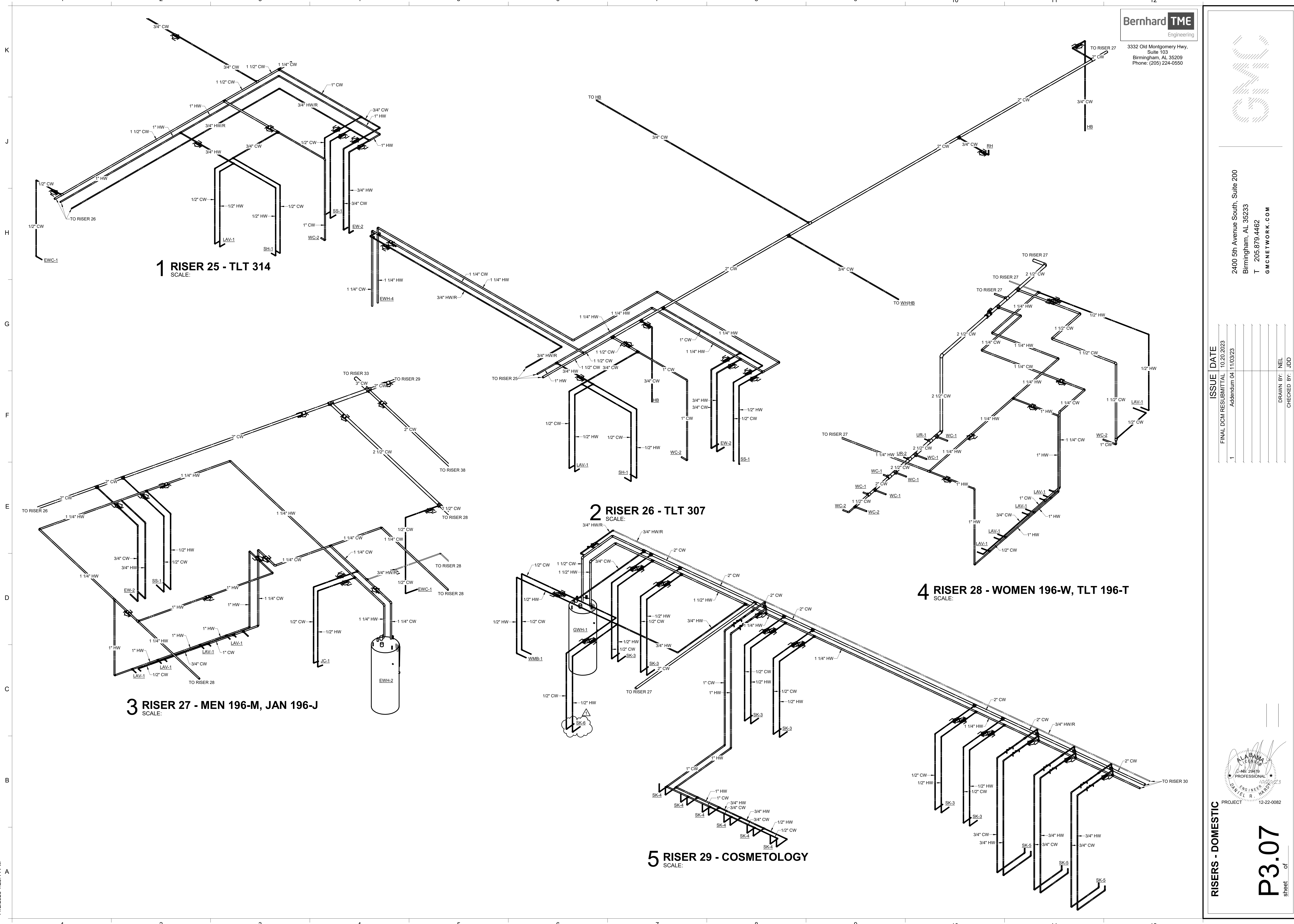
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1 RISER 25 - TLT 314
SCALE:

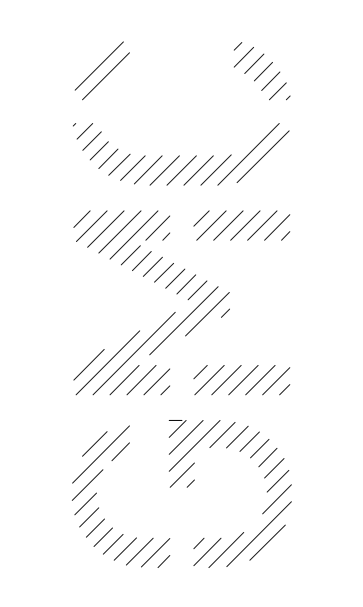
2 RISER 26 - TLT 307
SCALE:

3 RISER 27 - MEN 196-M, JAN 196-J
SCALE:

4 RISER 28 - WOMEN 196-W, TLT 196-T
SCALE:

5 RISER 29 - COSMETOLOGY
SCALE:





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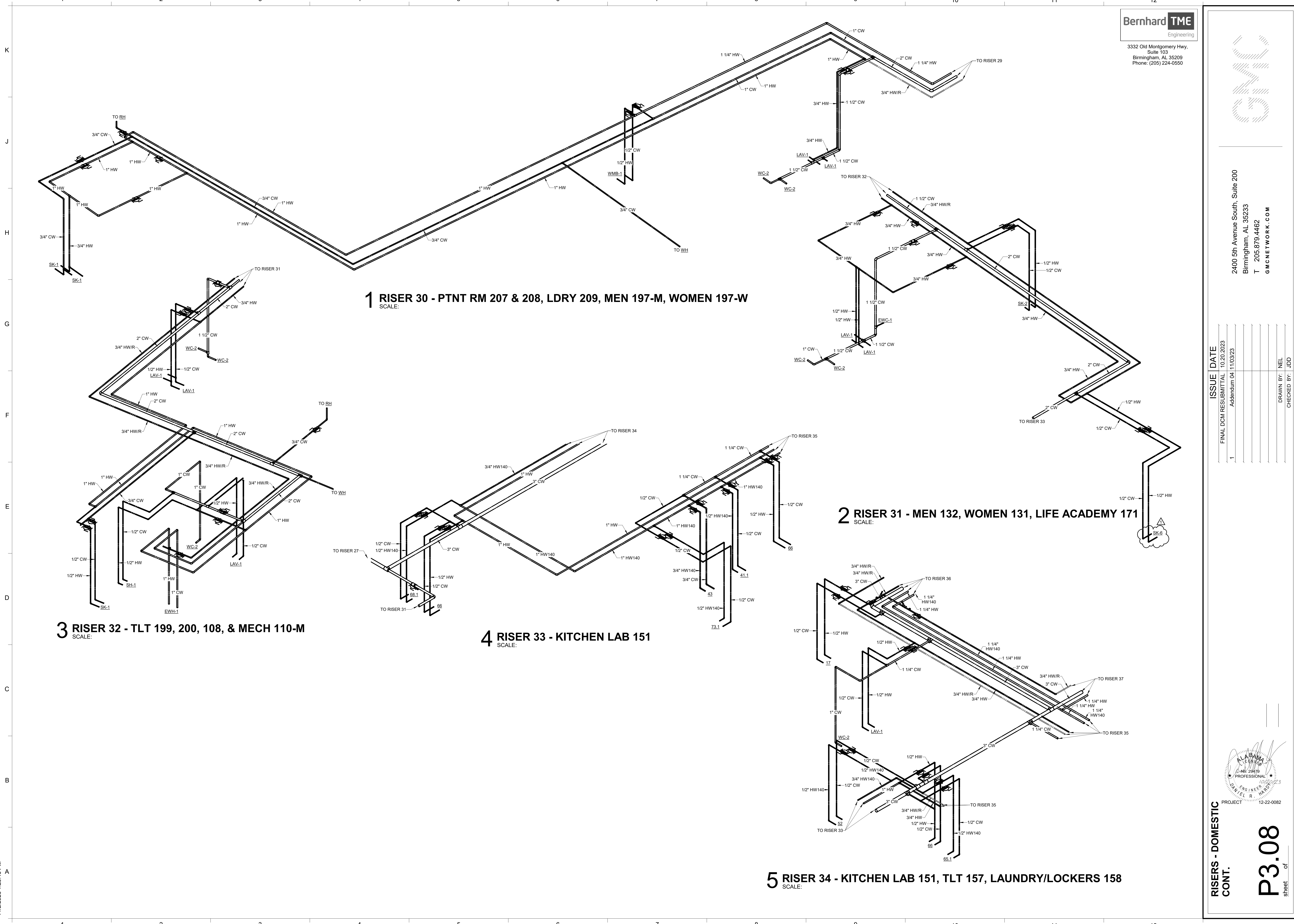
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RISERS - DOMESTIC
CONT.

P3.08
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1 RISER 30 - PTNT RM 207 & 208, LDRY 209, MEN 197-M, WOMEN 197-W
SCALE:

2 RISER 31 - MEN 132, WOMEN 131, LIFE ACADEMY 171
SCALE:

3 RISER 32 - TLT 199, 200, 108, & MECH 110-M
SCALE:

4 RISER 33 - KITCHEN LAB 151
SCALE:

5 RISER 34 - KITCHEN LAB 151, TLT 157, LAUNDRY/LOCKERS 158
SCALE:

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