

Capital Facilities Planning

Addendum 3 – Questions and Answers

To: All Bidders
From: Sayim Malik
Project Manager, Capital Facilities Planning
Re: Project SU-022723 - Phase 3 Bathroom Rehab Project
DATE: JUNE 26, 2023

Question 1: There is Specs 095113 Acoustical Ceiling, but there is no ACT Ceiling in drawings. Please Clarify.

Answer 1: *There is work in hallway at CCN for relocation of fire alarm and electrical, please refer to Addendum #3 drawings. In addition, there is an ACT ceiling in workshop at CCS that will be modified and some modification of the ceiling may be needed.*

Question 2: Please provide information related to fire alarm vendor.

Answer 2: *ADT (Previously known as Red Hawk)*

Question 3: Provide Information related to building codes associated with Fire Alarm work.

Answer 3: *2020 Building Code NYS, 2020 Fire Code of NYS, NEC 2017, NFPA 72 (2016)
All authorities having jurisdiction.*

Question 4: The Baby Changing is discontinued what is in specification. Please advise.

Answer 4: *Replacement for surface mounted model:
[9013-9.pdf \(americanspecialties.com\)](#) and where possible (not in rated walls) we would like recessed product [9013.pdf \(americanspecialties.com\)](#)*

Question 5: Specification 0100-1, Section B.2 states there are no alternates. Contract drawing A103 states to price all gender restroom as an add alternate in OFFICE 1007 at Campus Center South. Please advise if there are any alternate pricing required.

Answer 5: *This is part of Bid. Price and execute AG restroom as the base Bid. No alternates.*

Question 6: Physical Education Building: provide a Key Plan to Scale showing the Area of Work and the Electrical Closet.

Answer 6: *Key plan is indicated in the title-block on this sheet. Electrical room has been called out for reference. Refer to E-101.*

- Question 7: Campus Center North provide a Key Plan to Scale showing the Area of Work and the Electric Closet.
- Answer 7: *Key plan is indicated in the title-block on this sheet. Electrical room has been called out for reference. Refer to E-102.*
- Question 8: Campus Center South provide a Key Plan to Scale showing the Area of Work and the Electric Closet.
- Answer 8 *Key plan is indicated in the title-block on this sheet. Electrical room has been called out for reference. Refer to E-103.*
- Question 9: Main Dining Hall provide a Key Plan to Scale showing the Area of Work and the location of existing Panel board APKB within the existing Electric Closet.
- Answer 9: *Panel APKB is located in Room 029. On panel schedule, it was identified that there are spares available. Indicated circuits on plan are for reference only. Contractor to verify exact circuit numbers and to trace existing demolished circuits, re-use existing circuits to feed new loads. Note that additional circuits are available in nearby panels: Panel APKC.*
- Question 10: Drawing E-101.00 Detail #3 First Floor Lighting Plan Sheet Key Note #2 calls for one (1) 50-watt Inverter yet the Type L5 light fixtures are 75 watts each. Are additional Inverters required and what power requirement?
- Answer 10: *Please note this fixture has been specified with EM battery backup option.*
- Question 11: Drawing E-102.00 Detail #3 First Floor Lighting Plan Sheet Key Note #2 calls for one (1) 50-watt Inverter yet the Type L5 light fixture is 75 watts each. Are additional Inverters required and what power requirement?
- Answer 11: *Please note that all EM fixtures are battery backups.*
- Question 12: Drawing E-103.00 Sheet Key Note #2-provide a Key Plan to Scale identifying the location of the nearest Emergency Panel.
- Answer 12: *Please note that all EM fixtures are battery backups.*
- Question 13: Drawing E-501.00 Detail #3 Partial Electric Risers-Panels are shown three phase yet the Panel Schedules on Drawings E-601.00, E-602.00 and E-603.00 depict Panels as single phase. Clarify three phase or single phase panels.
- Answer 13: *Panel is single phase. This has been updated on the riser diagram. Please refer to Detail 3 on E-501.*
- Question 14: What kind of software is required by campus for tracking RFI, submittal and close out?
- Answer 14: *Campus requires Pro-Core or similar software to track Construction Administration Services.*

SECTION 210518 - ESCUTCHEONS FOR FIRE-SUPPRESSION PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Escutcheons.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 ESCUTCHEONS

- A. One-Piece, Steel Type: With polished, chrome-plated finish and setscrew fastener.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install escutcheons for piping penetrations of walls, and ceilings.
- B. Install escutcheons with ID to closely fit around pipe, tube, and insulation of piping and with OD that completely covers opening.
 - 1. Escutcheons for New Piping:
 - a. Bare Piping at Wall and Ceiling Penetrations in Finished Spaces: One-piece steel with polished, chrome-plated finish.

3.2 FIELD QUALITY CONTROL

- A. Using new materials, replace broken and damaged escutcheons.

END OF SECTION

SECTION 211313 – WET PIPE SPRINKLER SYSTEMS FOR FIRE-SUPPRESSION PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Pipes, fittings, and specialties.
2. Sprinklers.
3. Hangers and supports.
4. Alarm Devices
5. Pressure Gages
6. Drain Valves

- B. Related Requirements:

1. Section 210517 “Sleeves and Sleeve Seals for Fire-Suppression Piping”
2. Section 210518 “Escutcheons for Fire-Suppression Piping”
3. Section 210553 “Identification for Fire-Suppression Piping and Equipment”

1.3 DEFINITIONS

- A. Standard-Pressure Sprinkler Piping: Wet-pipe sprinkler system piping designed to operate at working pressure of 175-psig maximum.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

- B. Shop Drawings and hydraulic calculations:

1. Include plans, elevations, sections, and attachment details and hydraulic calculations in accordance with NFPA 13 “Plans and Calculations” Chapter. Hydraulic nodes shall be visibly shown on the drawings.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Sprinkler systems, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Domestic water piping.

2. HVAC hydronic piping.
3. Items penetrating finished ceiling include the following:
 - a. Lighting fixtures.
 - b. Air outlets and inlets.
 - c. Fire alarm devices.
 - d. Security/communications devices.

B. Qualification Data:

1. Qualified Installer
2. Professional engineer or NICET III or IV technician responsible for the preparation of shop drawings, hydraulic calculations, and product data submittal package.

C. Design Data:

1. Approved Sprinkler Piping Drawings: Working plans, prepared according to NFPA 13, that have been approved by authorities having jurisdiction.

D. Welding certificates.

E. Field Test Reports:

1. Indicate and interpret test results for compliance with performance requirements and as described in NFPA 13. Include "Contractor's Material and Test Certificate for Aboveground Piping."

F. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For wet-pipe sprinkler systems and specialties to include in emergency, operation, and maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Spare sprinklers: furnish no less than two sprinklers of each type provided.

1.8 QUALITY ASSURANCE

A. Installer Qualifications:

1. Installer's responsibilities include designing, fabricating, and installing sprinkler systems and providing professional engineering services needed to assume engineering responsibility. Base calculations on results of fire-hydrant flow test not less than one year old from the date of shop drawing submittal.
 - a. Engineering Responsibility: Preparation of working plans, calculations, and field test reports by a qualified NICET III or IV technician or professional engineer.

- B. Welding Qualifications: Qualify procedures and operators according to 2010 ASME Boiler and Pressure Vessel Code.
- C. All fire protection materials and equipment shall be UL listed and/or FM approved. Valve components (including valve trim, internal parts, gaskets, etc.) and other components as permitted by NFPA 13 shall not be required to be individually listed.
- D. Piping materials shall bear label, stamps, or other markings of specified testing agency.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Preparation for Transport: Prepare valves and piping according to the following:
 - 1. Ensure that valves and piping are dry and internally protected against rust and corrosion.
 - 2. Protect valves against damage to threaded ends and flange faces.
 - 3. Set valves in best position for handling. Set valves closed to prevent rattling.
- B. During Storage: Use precautions for valves according to the following:
 - 1. Do not remove end protectors unless necessary for inspection; then reinstall for storage.
 - 2. Protect from weather, humidity, temperature, dust, dirt, and water damage. Store indoors and maintain temperature higher than ambient dew point temperature. Support off the ground or pavement in watertight enclosures when outdoor storage is necessary.
- C. Deliver piping with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe-end damage and to prevent entrance of dirt, debris, and moisture.
- D. Protect stored piping from moisture and dirt. Elevate above grade. Do not exceed structural capacity of floor when storing inside.
- E. Protect flanges, fittings, and specialties from moisture and dirt.

1.10 FIELD CONDITIONS

- A. Interruption of Existing water Service: Do not interrupt water service to facilities occupied by Owner or others unless permitted under the following conditions:
 - 1. Notify Construction Manager and/or Owner no fewer than three days in advance of proposed interruption of water service.
 - 2. Do not proceed with interruption of sprinkler service without Construction Manager's and/or Owner's written permission.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Sprinkler system equipment, specialties, accessories, installation, and testing shall comply with the following:
 - 1. NFPA 13.

- B. Standard-Pressure Piping System Component: Listed for 175-psig minimum working pressure.
- C. Engage a qualified professional engineer or NICET III or IV technician, as defined in Section 014000 "Quality Requirements," to design wet-pipe sprinkler systems.
 - 1. Sprinkler system design shall be approved by authorities having jurisdiction.
 - a. Margin of Safety for Available Water Flow and Pressure: 10 psi, including losses through water-service piping, valves, and backflow preventers.
 - b. Sprinkler Occupancy Hazard Classifications:
 - 1) Light Hazard Occupancy: Offices, lobbies, conference rooms, classrooms, restrooms, sleeping rooms, and similar spaces.
 - 2. Minimum Density for Automatic-Sprinkler Piping Design:
 - a. Light-Hazard Occupancy: 0.10 gpm over 1500-sq. ft. area.
 - 3. Maximum Protection Area per Sprinkler: According to UL listing and below.
 - a. Light Hazard Occupancy: 225 sq. ft..

2.2 COPPER TUBE AND FITTINGS

- A. Hard Copper Tube: ASTM B 88, Type L water tube, drawn temper.
- B. Cast-Copper, Solder-Joint Fittings: ASME B16.18 pressure fittings.
- C. Wrought-Copper, Solder-Joint Fittings: ASME B16.22 pressure fittings.
- D. Brazing Filler Metals: AWS A5.8/A5.8M, BCuP Series, copper-phosphorus alloys for general-duty brazing unless otherwise indicated.
- E. Copper Unions: MSS SP-123, cast-copper-alloy, hexagonal-stock body, with ball-and-socket, metal-to-metal seating surfaces and solder-joint or threaded ends.

2.3 SPRINKLERS

- A. Listed in UL's "Fire Protection Equipment Directory" or FM Global's "Approval Guide."
- B. Pressure Rating for Automatic Sprinklers: 175-psig minimum.
- C. Automatic Sprinklers with Heat-Responsive Element:
 - 1. Nonresidential Applications: UL 199.
 - 2. Characteristics: Nominal 1/2-inch orifice with Discharge Coefficient K of 5.6, and for "Ordinary" temperature classification rating unless otherwise indicated or required by application.
- D. Sprinkler Finishes: Chrome plated, bronze, and painted. Refer to sprinkler schedule.
- E. Sprinkler Guards:
 - 1. Standard: UL 199.

2. Type: Wire cage with fastening device for attaching to sprinkler.

2.4 HANGERS AND SUPPORTS

- A. Hangers and supports for fire suppression piping shall be UL listed or FM approved and installed in accordance with NFPA 13.
- B. Components of hanger assemblies that directly attach to the pipe or to the building structure shall be listed unless the following requirements are met:
 1. Mild steel hanger rods and hangers formed from mild steel rods shall be permitted to be not listed.
 2. Fasteners in concrete, steel, or, wood in accordance with NFPA 13.
- C. Copper Pipe and Tube Hangers:
 1. Description: Copper-coated-steel, factory-fabricated components, NFPA approved, UL listed, or FM approved for fire-suppression piping support.
 2. Hanger Rods: Continuous-thread rod, nuts, and washer made of copper-coated steel.

2.5 ALARM DEVICES

- A. Alarm-device types shall match piping and equipment connections.
- B. Water-Flow Indicators:
 1. Standard: UL 346.
 2. Water-Flow Detector: Electrically supervised.
 3. Components: Two single-pole, double-throw circuit switches for isolated alarm and auxiliary contacts, 7 A, 125-V ac and 0.25 A, 24-V dc; complete with factory-set, field-adjustable retard element to prevent false signals and tamperproof cover that sends signal if removed.
 4. Type: Paddle operated.
 5. Pressure Rating: 250 psig.
 6. Design Installation: Horizontal or vertical.
- C. Valve Supervisory Switches:
 1. Standard: UL 346.
 2. Type: Electrically supervised.
 3. Components: Single-pole, double-throw switch with normally closed contacts.
 4. Design: Signals that controlled valve is in other than fully open position.
 5. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.6 PRESSURE GAGES

- A. Standard: UL 393.

- B. Dial Size: 3-1/2- to 4-1/2-inch diameter.
- C. Pressure Gage Range: 0- to 250-psig minimum.
- D. Label: Include "WATER" label on dial face.

2.7 DRAIN VALVES

- A. Ball Valves:
 - 1. Description:
 - a. Pressure Rating: 175 psig.
 - b. Body Design: Two piece.
 - c. Body Material: Forged brass or bronze.
 - d. Port size: Full or standard.
 - e. Seats: PTFE.
 - f. Stem: Bronze or stainless steel.
 - g. Ball: Chrome-plated brass.
 - h. Actuator: Hand lever.
 - i. End Connections for Valves NPS 1: Threaded ends.
 - 2. General Requirements:
 - a. UL Listed: Valves shall be listed in UL's "Online Certifications Directory" under the headings listed below and shall bear UL mark:
 - b. FM Global Approved: Valves shall be listed in its "Approval Guide," under the headings listed below:
 - c. ASME Compliance: ASME B1.20.1 for threads for threaded-end valves.
 - d. NFPA Compliance: Comply with NFPA 24 for valves.
 - e. Valve Pressure Ratings: Not less than the minimum pressure rating indicated or higher as required by system pressures.
 - f. Valve Sizes: Same as upstream piping unless otherwise indicated.

PART 3 - EXECUTION

3.1 PIPING INSTALLATION

- A. Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and arrangement of piping. Install piping as indicated on approved working plans.
 - 1. Deviations from approved working plans for piping require written approval from authorities having jurisdiction. File written approval with Architect before deviating from approved working plans.
 - 2. Coordinate layout and installation of sprinklers with other construction that penetrates ceilings, including light fixtures, HVAC equipment, and partition assemblies.
- B. Piping Standard: Comply with NFPA 13 requirements for installation of sprinkler piping.
- C. Use listed fittings to make changes in direction, branch takeoffs from mains, and reductions in pipe sizes.
- D. Install unions adjacent to each valve in pipes NPS 2 and smaller.

- E. Install sprinkler piping with drains for complete system drainage. Where low points cannot be avoided, auxiliary drains shall be provided in accordance with NFPA 13.
- F. Install hangers and supports for sprinkler system piping according to NFPA 13. Comply with requirements for hanger materials in NFPA 13.
- G. Install pressure gages to permit removal.
- H. Fill sprinkler system piping with water.
- I. Install sleeves for piping penetrations of walls, ceilings, and floors. Comply with requirements for sleeves specified in Section 210517 "Sleeves and Sleeve Seals for Fire-Suppression Piping."
- J. Install escutcheons for piping penetrations of walls, ceilings, and floors. Comply with requirements for escutcheons specified in Section 210518 "Escutcheons for Fire-Suppression Piping."

3.2 JOINT CONSTRUCTION

- A. Install couplings, flanges, flanged fittings, unions, nipples, and transition and special fittings that have finish and pressure ratings same as or higher than system's pressure rating for aboveground applications unless otherwise indicated.
- B. Install unions adjacent to each valve in pipes NPS 2 and smaller.
- C. Ream ends of pipes and tubes and remove burrs.
- D. Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly.
- E. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
 - 1. Apply appropriate tape or thread compound to external pipe threads.
 - 2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged.
- F. Brazed Joints: Join copper tube and fittings according to CDA's "Copper Tube Handbook," "Braze Joints" Chapter.
- G. Extruded-Tee Connections: Form tee in copper tube according to ASTM F 2014. Use tool designed for copper tube; drill pilot hole, form collar for outlet, dimple tube to form seating stop, and braze branch tube into collar.
- H. Dissimilar-Material Piping Joints: Make joints using adapters compatible with materials of both piping systems.

3.3 VALVE INSTALLTION

- A. Install listed fire-protection valves and drain valves according to NFPA 13 and authorities having jurisdiction.
- B. Install listed fire-protection shutoff valves supervised open, located to control sources of water supply. Install permanent identification signs indicating portion of system controlled by each valve.
- C. Install valves having threaded connections with unions at each piece of equipment arranged to allow easy access, service, maintenance, and equipment removal without system shutdown. Provide separate support where necessary.
- D. Install valves in horizontal piping with stem at or above the pipe center.
- E. Install valves in position to allow full stem movement.

3.4 SPRINKLER INSTALLATION

- A. Install sprinklers in accordance with NFPA 13 requirements.

3.5 IDENTIFICATION

- A. Install labeling and pipe markers on equipment and piping according to requirements in NFPA 13.
- B. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.6 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 - 1. Where modifications affect less than 20 sprinklers, the new portion may be tested at system working pressure and shall maintain that pressure without loss for 2 hours. Repair leaks and retest until no leaks exist. Pressure test shall not exceed 80 psi.
 - 2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - 3. Flush, test, and inspect sprinkler systems according to NFPA 13, "Systems Acceptance" Chapter.
 - 4. All control valves shall be fully closed and opened under system working pressure to ensure proper operation.
 - 5. Energize circuits to electrical equipment and devices.
 - 6. Coordinate with fire-alarm tests. Operate as required.
- B. Sprinkler piping system will be considered defective if it does not pass tests and inspections.
- C. Prepare test and inspection reports.

3.7 CLEANING

- A. Clean dirt and debris from sprinklers.
- B. Only sprinklers with their original factory finish are acceptable. Remove and replace any sprinklers that are painted or have any other finish than their original factory finish.

3.8 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain installed sprinkler system.

3.9 PIPING SCHEDULE

- A. Sprinkler specialty fittings may be used, downstream of control valves, instead of specified fittings.
- B. Copper-tube, extruded-tee connections may be used for tee branches in copper tubing instead of specified copper fittings. Branch-connection joints must be brazed.

3.10 Type L, hard copper tube with plain ends; cast- or wrought-copper, solder-joint fittings; and brazed joints.

3.11 SPRINKLER SCHEDULE

- A. Use sprinkler types in subparagraphs below:
 - 1. Upright sprinkler.
- B. Provide sprinkler types in subparagraphs below with finishes indicated.
 - 1. Upright Sprinklers: Rough bronze

END OF SECTION

SECTION 221119 – DOMESTIC WATER PIPING SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Backflow preventers.
 - 2. Temperature-actuated, water mixing valves.
- B. Related Requirements:
 - 1. Section 221116 "Domestic Water Piping"

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For domestic water piping specialties.

1.4 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For domestic water piping specialties to include in emergency, operation, and maintenance manuals.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR PIPING SPECIALTIES

- A. Potable-water piping and components shall comply with NSF 61 and NSF 14. Mark "NSF-pw" on plastic piping components.
- B. Comply with NSF 372 for low lead.

2.2 PERFORMANCE REQUIREMENTS

- A. Minimum Working Pressure for Domestic Water Piping Specialties: 125 psig unless otherwise indicated.

2.3 BACKFLOW PREVENTERS

- A. Double-Check, Backflow-Prevention Assemblies:
 - 1. Standard: ASSE 1015.

2. Operation: Continuous-pressure applications unless otherwise indicated.
3. Pressure Loss: 5 psig maximum, through middle third of flow range.
4. Body: Bronze for NPS 2 and smaller.
5. End Connections: Threaded for NPS 2 and smaller.
6. Configuration: Designed for horizontal, straight-through flow.

B. Backflow-Preventer Test Kits:

1. Description: Factory calibrated, with gages, fittings, hoses, and carrying case with test-procedure instructions.

2.4 TEMPERATURE-ACTUATED, WATER MIXING VALVES

A. Individual-Fixture, Water Tempering Valves:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Acorn Engineering Company; a Division of Morris Group International.
 - b. Leonard Valve Company.
 - c. POWERS; A WATTS Brand.
 - d. Zurn Industries, LLC.
2. Standard: ASSE 1016, thermostatically controlled, water tempering valve.
3. Pressure Rating: 125 psig minimum unless otherwise indicated.
4. Body: Bronze body with corrosion-resistant interior components.
5. Temperature Control: Adjustable.
6. Inlets and Outlet: soldered union.
7. Finish: Rough or chrome-plated bronze.
8. Tempered-Water Setting: 105 deg F.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Backflow Preventers: Install backflow preventers in each water supply to mechanical equipment and systems and to other equipment and water systems that may be sources of contamination. Comply with authorities having jurisdiction.

1. Locate backflow preventers in same room as connected equipment or system.
2. Do not install bypass piping around backflow preventers.

B. Temperature-Actuated, Water Mixing Valves: Install with shutoff valves on inlets and with shutoff valve on outlet.

1. Install in existing relocated sink below sink cabinet space.

3.2 CONNECTIONS

A. Drawings indicate general arrangement of piping, fittings, and specialties.

B. When installing piping specialties adjacent to equipment and machines, allow space for service and maintenance.

- C. Comply with requirements for grounding equipment in Section 260526 "Grounding and Bonding for Electrical Systems."

3.3 IDENTIFICATION

- A. Plastic Labels for Equipment: Install engraved plastic-laminate equipment nameplate or sign on or near each of the following:
 - 1. Double-check, backflow-prevention assemblies.

3.4 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 - 1. Verify temperature-actuated, water mixing valves meet specified temperature at hot water outlet.
- B. Domestic water piping specialties will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

3.5 ADJUSTING

- A. Set field-adjustable temperature set points of temperature-actuated, water mixing valves.

END OF SECTION

PLUMBING SCHEDULE								
TAG	ITEM	MANUF	STYLE	MODEL	DIM/DESCRIP	FIN	QTY	NOTES
P1	WALL MOUNTED TOILET	SLOAN	---	ST-249#	---	WHITE	20	
P1a	SOLAR POWERED DUAL FLUSH	SLOAN	----	B111-1.6/1.1	---	---	20	
P2	URNAL/FLUSH VALVE COMBO	SLOAN	----	KEBJ-1000.1201	---	---	6	
P3a	WALL MOUNTED SINK	DURAVIT	----	VERO	24" WIDE X 10.5" DEEP	WHITE	4	ONE FAUCET HOLE
P3b	WALL MOUNTED SINK	DURAVIT	----	VERO	31" WIDE X 10.5" DEEP	WHITE	2	ONE FAUCET HOLE
P4	FAUCET	SLOAN	----	OPTIMA SOLIS EAF-2751	---	CHROME	24	
P5	VANITY SINK	SOPHSTONE	PREFAB SERIES/BLANT	P5a: SOPH-ST-62	62"X23 5/8"	COTTON	1 (CON)	VANITY IV BRACKETS & ENCLOSURE COORDINATE FAUCET & DECK MOUNTED SOAP DISPENSER HOLES COORDINATE EL. OUTLET & WIRING FOR SOAP DISPENSERS BEHIND VANITY ENCLOSURE, TYP. *** SINKS TRIMMABLE BY SOPHSTONE
				P5b: SOPH-ST-62 (***)	60"X23 5/8"	COTTON	2 (CCS)	
				P5c: SOPH-ST144	144"X23 5/8"	COTTON	2 (FE)	
P6	MOP SINK	FIAT PRODUCTS	----	MSB 24X24	24X24"	---	2	
P7	MOP SINK WALL MOUNTED FAUCET	FIAT PRODUCTS	----	FIAT 830-A4	---	---	2	
P8	DRINKING FOUNTAIN	ELKAY	----	LZ58V6LP	---	---	2	

- NOTES:
 REFER TO PLUMBING DRAWINGS AND SPECS, TYP.
 • FOR ALL TOILETS PROVIDE TOILET SEAT, CENCOGO 500 ST-56C7E-001
 • ALL FIXTURES TO BE MOUNTED AS PER DIMENSIONS PROVIDED IN SCHEDULE #5/A-004 FOR EACH TYPE OF RESTROOM
 • FOLLOW ALL APPLICABLE ADA REQUIREMENTS FOR INSTALLATION OF PLUMBING FIXTURES. REFER TO SHEET A-003, A-004
 • CONTRACTOR SHALL VERIFY QUANTITIES

ACCESSORY SCHEDULE								
TAG	ITEM	MANUF	STYLE	MODEL	DIM/DESCRIP	FIN	QTY	NOTES
A1	BABY CHANGING STATION	KOALA	---	KB310-55RE	---	---	4	RECESSED MTD. AS PER ADA GUIDELINES
A2	HAND DRYER	BOBRICK	---	B-3125	---	---	11	INSTALLED IN PAIRS, SEE ELEVATION, FOLLOW ADA GUIDELINES
A3	RECESSED TRASH RECEPTACLE	BOBRICK	---	B-35633	---	---	11	
A4	FULL LENGTH MIRROR	BOBRICK	---	B-240	24"X12"	---	12	SEE ELEVATIONS, CENTERED ON WALLS, UON.
A5	TOILET PAPER HOLDER	BOBRICK	---	B-2042	---	---	20	INSTALLED AS PER ADA GUIDELINES
A6	COAT HOOK	BOBRICK	---	B-544	---	---	20	ON DOORS INSIDE AS RESTROOMS AND ADA STALLS
A7	AUTOMATIC SOAP DISPENSER	SLOAN	SURFACE MOUNT	OPTIMA ESD 2000CP	---	---	10	DECK MOUNTED, COORDINATE W/ELEC. AND PROVIDE AC ADAPTER
A8	AUTOMATIC SOAP DISPENSER	BOBRICK	WALL MOUNT	B-2013	---	---	6	BATTERY OPERATED
A9	SANITARY NAPKIN DISPOSAL	BOBRICK	---	B-210	---	---	15	IN AG AND WOMEN'S RESTROOMS
A10	GRAB BAR	BOBRICK	---	B-5006	36"	---	12	INSTALLED AS PER ADA GUIDELINES
A11	GRAB BAR	BOBRICK	---	B-5006	42"	---	12	INSTALLED AS PER ADA GUIDELINES
A12	GRAB BAR	BOBRICK	---	B-5006	18"	---	12	INSTALLED AS PER ADA GUIDELINES
A13	MIRROR	BOBRICK	---	B-240	24"X36"	---	4	MOUNTED HEIGHT AS PER ADA GUIDELINES
A14	MIRROR	BOBRICK	---	B-240	18"X36"	---	2	MOUNTED HEIGHT AS PER ADA GUIDELINES
A15	TOILET PARTITIONS	BOBRICK	OVERHEAD BRACED	CGL-1082 DURALINE	---	TBD	---	SEE DRAWINGS, PENTER MASH FINISH
A16	KLUTCH HOLDER/HOOK	BOBRICK	---	B-635	---	---	10d	

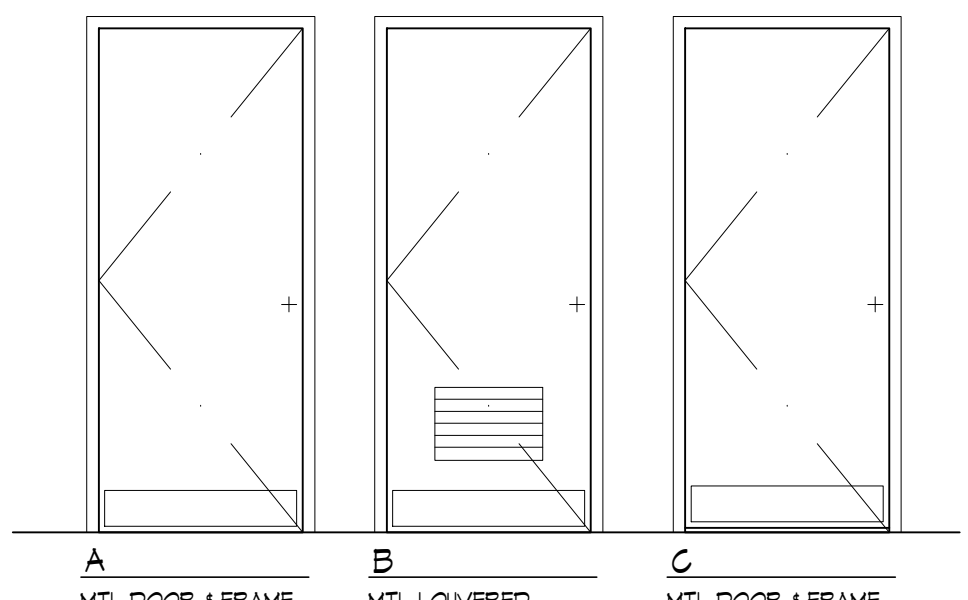
- NOTES:
 • CONTRACTOR SHALL VERIFY ALL COUNTS & LOCATIONS SO THAT EACH BATHROOM IS PROVIDED WITH REQUISITE NUMBER OF ACCESSORIES TO SUIT FIXTURES & LAYOUT.
 • TOILET COMPARTMENT PARTITIONS TO BE FABRICATED AFTER FIELD VERIFICATION ACCOUNTING FOR INSTALLED FINISHES & APPROVED SHOP DRAWINGS.
 • INSTALLATION OF ACCESSORIES TO FOLLOW ADA STANDARDS AS PER SHEET A-003 AND A-004 AND CONSTRUCTION PLAN NOTES REGARDING REQUIRED BLOCKING AND STANDARDS.
 • MOUNTING HEIGHTS AS PER ADA GUIDELINES ON SHEET A-004, A005, LOCATIONS AS PER PLANS/ ELEVATIONS.

LIGHT SCHEDULE								
TAG	TYPE	MFR	MODEL	FIN	WATTAGE COLOR TEMP / CRI	LAMP	QTY	NOTES
L1	LINEAR LED COVE LIGHT	LUCETTE LIGHTING	CELESTE LINEAR	WHITE	1.8W/FT / 3000K/90 CRI	LED	--	QTY IS IN LINEAR FEET, SEE DRAWINGS
L2	4" RECESSED ROUND	COOPER LIGHTING	HALO LCR 4, REGRESSED	WHITE	10W MIN / 3000K/90 CRI	LED	51	3000K, 90 CRI, FROSTED GLASS COVER
L3	OVERSIZE PENDANT	DELRAY LIGHTING	DOSIO 3'	WHITE	75W / 3000K / 90 CRI	LED	5	SEPARATE REMOTE MOUNTING (LBOX RECESSED), 3000K 90 CRI
L3	FLUSH MOUNT	METALIX	NWS 2 FT	WHITE	15W / 3500K / 85 CRI	LED	2	REUSE OR USE SPECIFIED (CUSTODIAN ROOMS ONLY)

- NOTES:
 • CONTRACTOR RESPONSIBLE TO VERIFY QUANTITIES AS PER PLANS
 • REFER TO ELECTRICAL DRAWINGS, SCHEDULES AND SPECS FOR DETAILS, CONTROLS AND WIRING
 • SUBMITTALS REQUIRED
 • COORDINATE MOUNTING HEIGHTS W/ ARCHITECT PRIOR TO INSTALLATION.

DOOR SCHEDULE																	
MARK	LOCATN	FROM	TO	DOOR				FRAME				THRESHOLD		HWR	COMMENTS		
				TYPE	WIDTH	HEIGHT	THK	FIRE RATING	MAT	FIN	HEAD	JAMB	MAT			FIN	MAT
1	CORR.	2012	B	3'-0"	T-10'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	1	LOUVER 18'X12' 0.75F 100% FREE AREA
2	CORR.	2012A	G	3'-0"	T-10'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	2	
3	CORR.	2013A	G	2'-6"	T-10'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	3	
4	CORR.	2013	B		T-10'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	1	LOUVER 18'X12' 0.75F 100% FREE AREA
5	1004	1004	B		T-2'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	1	
6	1004	1007	G		T-2'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	2	
7	1004	1006	B	3'-0"	T-2'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	1	
14	1006	1009	G	2'-6"	T-0'	1 3/4"	NO RTG.	MTL	PT-2a	---	---	MTL	PT-1	ST-1	4/A-502	3	DOOR TO BE PAINTED PT-1 TO MATCH ADJACENT TILE
8	1003	1005	B	3'-0"	T-4'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	1	
9	1003	1004	B	3'-0"	T-4'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	1	
10	1003	1004A	G	3'-0"	T-4'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	2	
11	019	019A	G	3'-0"	T-0'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	2	
12	019	019B	G	3'-0"	T-0'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	2	
13	019	019C	G	3'-0"	T-0'	1 3/4"	45 MIN	MTL	PT-2a	---	---	MTL	PT-2a	ST-1	4/A-502	2	

- DOOR SCHEDULE NOTES:
 CONFIRM DOOR TYPE (IN REFERENCE TO VENTILATION REQUIREMENTS) WITH MECHANICAL ENGINEER
 • ALL DOORS TO RECEIVE METAL KICK PLATES, 10" HIGH
 • FOR DOORS & HARDWARE DETAILS REFER TO SPECIFICATIONS, TYP
 • FLOOR TRANSITIONS AT DOORS SHALL MEET ADA PROVISIONS INCLUDING 1903, CHANGES IN LEVEL & PROVIDE EITHER A MAX VERTICAL CHANGE IN HEIGHT OF 1/4" OR 1/4" PLUS 1/4" BEVELED TRANSITION. ALL TRANSITIONS EXCEEDING 1/2" MUST BE RAMPED.
 • ALL NEW DOORS ARE TO BE LOCATED 4" FROM FINISH FACE OF ADJACENT WALL TO OUTSIDE EDGE OF DOOR FRAME UNLESS OTHERWISE NOTED, OR EXG CONDITIONS
 • ALL DOOR HARDWARE SHALL ALLOW FOR FREE EGRESS FROM ANY SPACE
 • DOOR AND FRAME HEIGHT: ALL DOOR HEIGHTS TO MATCH EXG. ALL FRAME HEIGHTS TO MATCH EXG.
 V.I.F. DOOR HT & DOOR FRAME HT.
 • FINISH: ALL EXTERIOR SIDES OF DOORS AND FRAMES WILL MATCH EXISTING & ADJACENT (COORDINATE WITH FACILITIES) INTERIOR SIDE OF DOORS AND FRAMES TO BE PT-3 AS PER SCHEDULE
 • ALL FIRE RATED DOORS SHALL HAVE SURFACE MOUNTED GLOSER
 • DOOR LOUVERS, IF REQUIRED, TO BE 10X16, COORDINATE WITH MECHANICAL AND SPECS
 • DOOR LOUVER COLOR TO MATCH DOOR COLOR
 • SUBMITTALS REQUIRED
 HARDWARE: MORTISE LOCK WITH SMALL CORE AS PER FACILITIES STANDARDS, REFER TO SPECIFICATIONS



- HARDWARE LEGEND:
- | | HWR SET 2: EXAMPLE (REFER TO SPECS FOR EXACT CONFIGURATIONS) | FIN |
|---|--|---------------------------|
| 1 | LOCK SET | SEE HARDWARE LEGEND |
| 1 | TRIM SET | - |
| 1 | LATCH | - |
| 3 | HNGERS | - |
| 3 | SLNGERS | - |
| 1 | STOP | - |
| 1 | SURFACE CLOSER | FOR FIRE RATED DOORS ONLY |
| 1 | OCG/PANGY SENSOR | NORTON 1510 |
| 1 | KICK PLATE | - |
- DOOR LEGEND:
- | | | |
|---|--|----------|
| A | NEW METAL DOOR & FRAME | COUNT: 2 |
| B | NEW METAL LOUVERED DOOR & FRAME | COUNT: 6 |
| C | NEW METAL DOOR & FRAME, DOOR UNDERGUT 3/4" | COUNT: 5 |

- FINISH LEGEND**
- STONE:
 ST-1 DOOR SADDLE CAESARSTONE 4141 HONED, MISTY CARRERA
 NOTE: SADDLE TO BE ADA COMPATIBLE, SEE DETAIL 12/A-501.00
- TILE:
 PHYSICAL ED. BUILDING
 T-120 LANDMARK CHARME, VENED STATUARIO, 12"X24"
 T-122 NEMO BOND, GPAL, 2 1/2"X8" JOLLY 1/2"X8"
 T-123 NEMO BOND, PENTER, 2 1/2"X8" JOLLY 1/2"X8"
 T-124 LANDMARK MADE IN, FREEDOM WHITE, 24"X24"
 T-125 LANDMARK MADE IN, FREEDOM WHITE, 12"X24"
- CAMPUS CENTER NORTH
 T-21 LANDMARK SOUL, WHITE COTTON, 12"X24"
 T-22 LANDMARK VISON, DOVE, 12"X24"
 T-23 NEMO BOND, MALAGHTE, 2 1/2"X8" JOLLY 1/2"X8"
 T-24 NEMO BOND GARNET, 2 1/2"X8" JOLLY 1/2"X8"
- CAMPUS CENTER SOUTH
 T-30 NEMO ALCHEMY SILVER, 12"X24"
 T-31 NEMO ALCHEMY SILVER, 24"X24"
 T-10 NEMO CADENCE PINOT, 2 1/2"X8" JOLLY 1/2"X8"
- MAIN DINING HALL
 T-40 NEMO AREA OFF WHITE, 24"X24"
 T-41 NEMO METRO LIMELIGHT GLOSS, 6"X6"
 T-42 NEMO METRO GOLDENROD, 6"X6"
 T-44 NEMO GLAZED MOSAIC, PENNY TILE, ORANGE (COLUMN ONLY, TILEBREAK AT THE BRACK)
- GENERAL TILING NOTES:
 GROUT: USE EPOXY GROUT (LATICRETE), COLOR TBD
 TILE EDGES: EXPOSED EDGES AT LARGE FORMAT TILES TO BE HANDLED WITH M-1 SCHLUTER
 EXPOSED EDGES AT SMALLER AND ACCENT TILE TO BE HANDLED WITH TILE JOLLY OR BULLNOSE TYP.
- METAL:
 M-1 ANI-100 SCHLUTER JOLLY (OUTSIDE CORNERS AND EDGES WHERE REQUIRED, TOP OF THE T1 FIELD CUT FLOOR BASE AND MISC. EDGES REQUIRED)
 FINISH: ST. STEEL
- PAINT:
 NOTE: ALL CEILING PAINT TO BE FLAT FINISH, TYP.
 ALL WALL PAINT TO BE SATIN FINISH, TYP.
 ALL DOORS, TRIMS, ETC. PAINT TO BE SEMI-GLOSS FINISH, TYP.
- PT-1 BENJAMIN MOORE DECORATORS WHITE, FLAT, GL/G TYP.
 PT-2 BENJAMIN MOORE CHINA WHITE, SATIN WALL TYP. (INSIDE OF RESTROOMS)
 PT-2a BENJAMIN MOORE CHINA WHITE, SEMI-GLOSS (GASINGS & DOORS INSIDE OF RESTROOMS, TYP)
 PT-3 PAINT AND COLOR TO MATCH EXISTING CORRIDOR FINISH (GASINGS & DOORS ON CORRIDOR SIDES, TYP)
 PT-3a COLOR TO MATCH EXISTING ADJACENT, SEMI-GLOSS (GASINGS & DOORS ON CORRIDOR SIDES, TYP)
 PT-6 BENJAMIN MOORE AC-19 HOMESTEAD GREEN (ACCENT WALL PHYS. ED. FOYERS AND LIBRARY FOYER)
- VGT:
 VGT-1 VINYL COMPOSITION TILE, COLOR TBD (MATCH EXG ADJACENT)
 VGT-2 VINYL COMPOSITION TILE, COLOR TBD
- BASE:
 T-X WALL TILE FILED CUT TO 6" HEIGHT(WHERE INDICATED) WITH M-1 SCHLUTER ON TOP AND EXPOSED EDGES
 B-1 CORRIDOR VINYL BASE TO MATCH EXISTING (WHERE NEEDED)

- FINISH NOTES**
- TILE LAYOUTS TO BE CONFIRMED BEFORE INSTALLATION & VERIFIED WITH ARCHITECT. NO LESS THAN HALF TILE AT EDGES AND CORNERS UNLESS PREVIOUSLY CONFIRMED BY ARCHITECT, TYP.
 - 1 1/2" MIN. BETWEEN FLUSHMETER & GRAB BAR ABOVE IS REQUIRED. CONFIRM WITH ARCHITECT HEIGHT OF GRAB BARS

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Rev	Date	Issue
27 Feb 2023	27 Feb 2023	Issue for Bid
16 June 2023	16 June 2023	Addendum #1

Title
SCHEDULES

Date	01-16-2020
Project No.	1944
Drawing By	SJ, CQ
CHK By	SN
Scale	AS NOTED
DOB Rev	A-601.00

#

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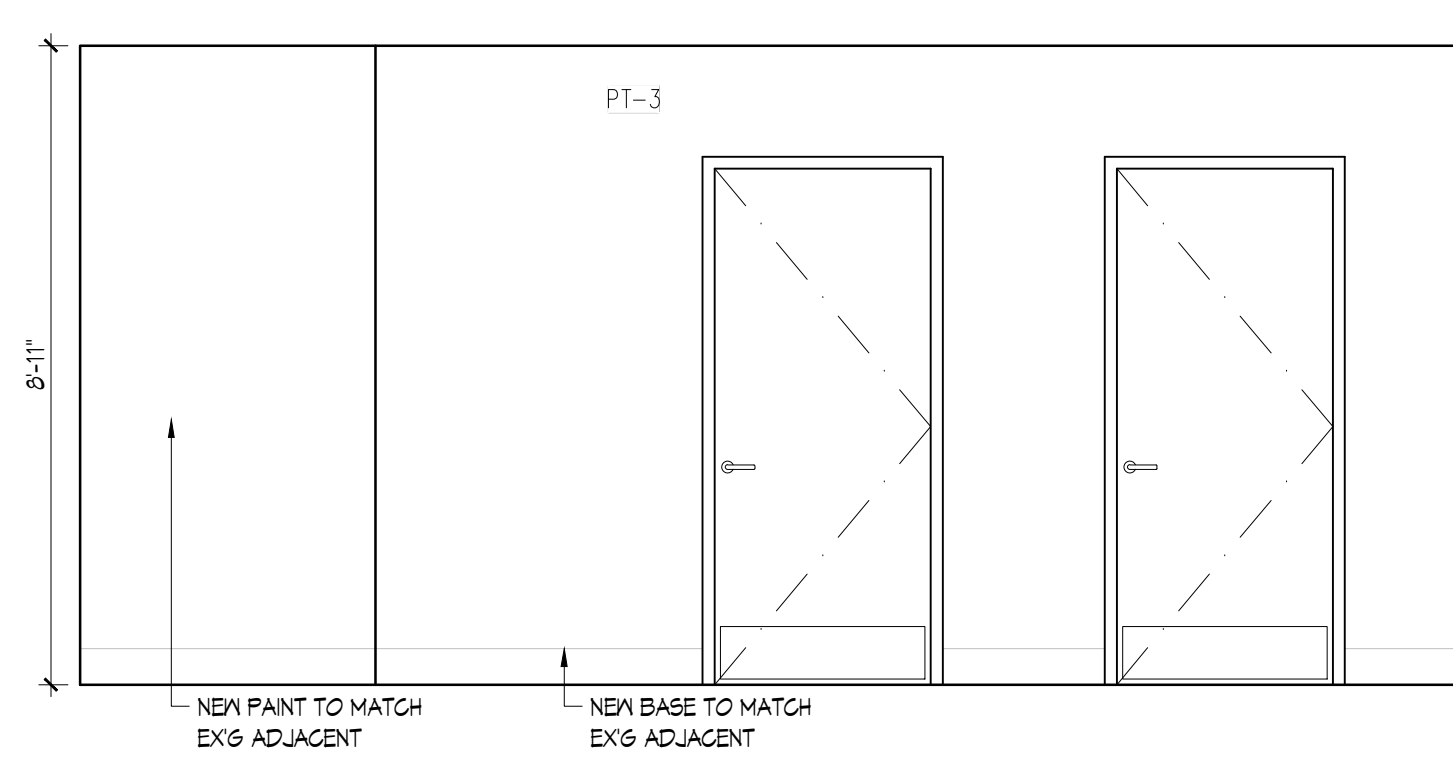
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27	Feb 2023	Issue for Bid
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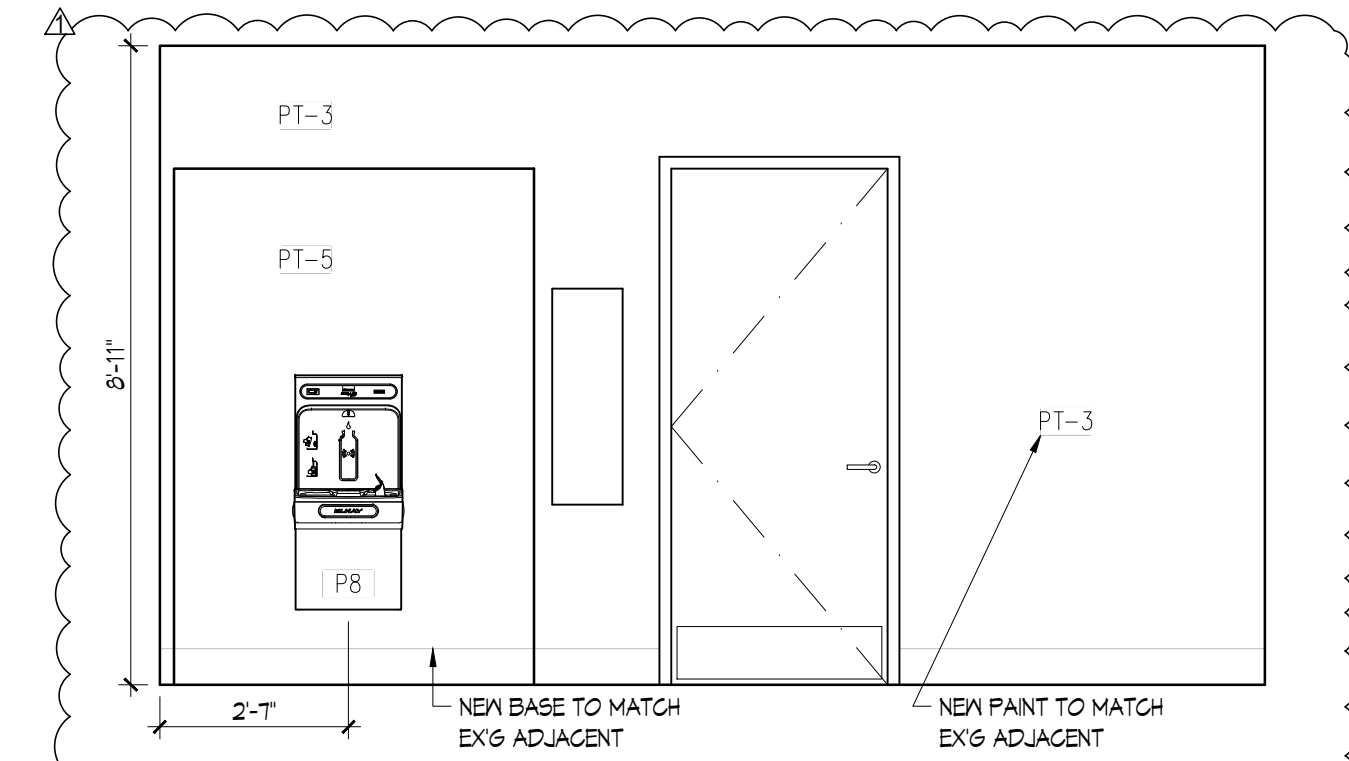
Title INTERIOR ELEVATIONS CAMPUS CENTER NORTH

Date 01-16-2020
Project No. 1944
Drawing By SJ, CQ
CHK By SN
Scale AS NOTED

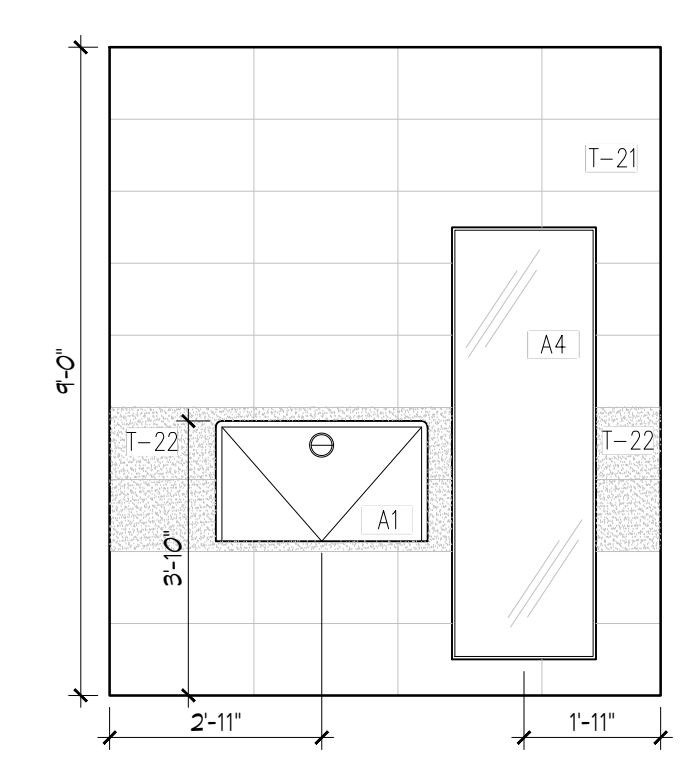
DOB Rev
A-203.00
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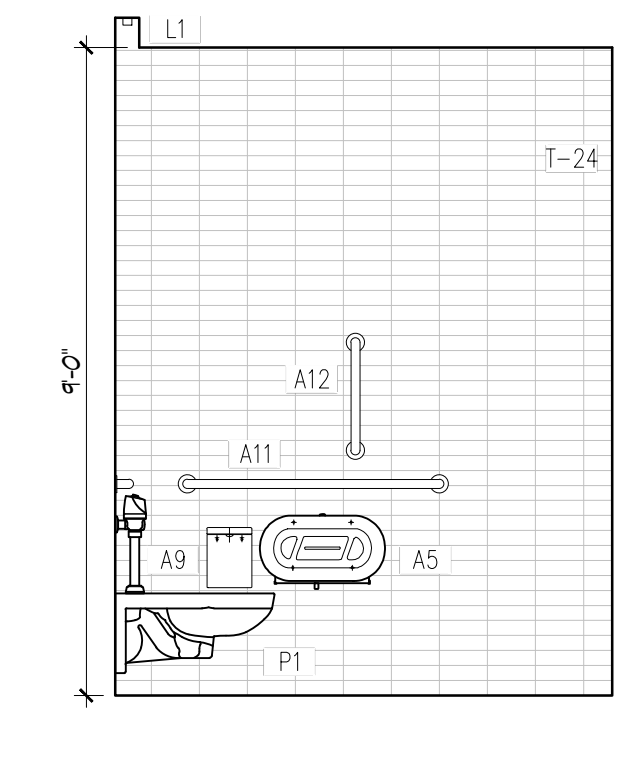
18 FOYER 1004 WEST
3/8" = 1'-0"



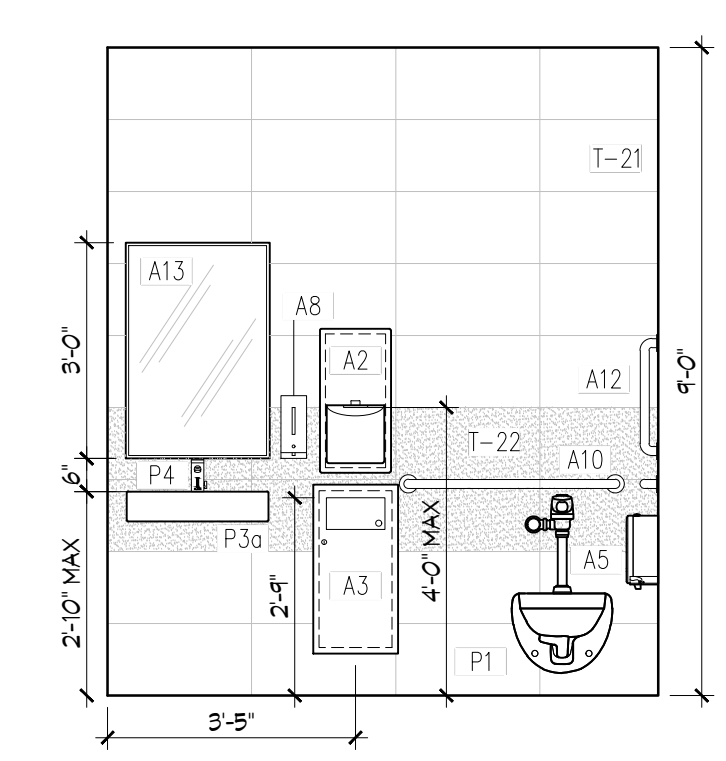
17 FOYER 1004 SOUTH
3/8" = 1'-0"



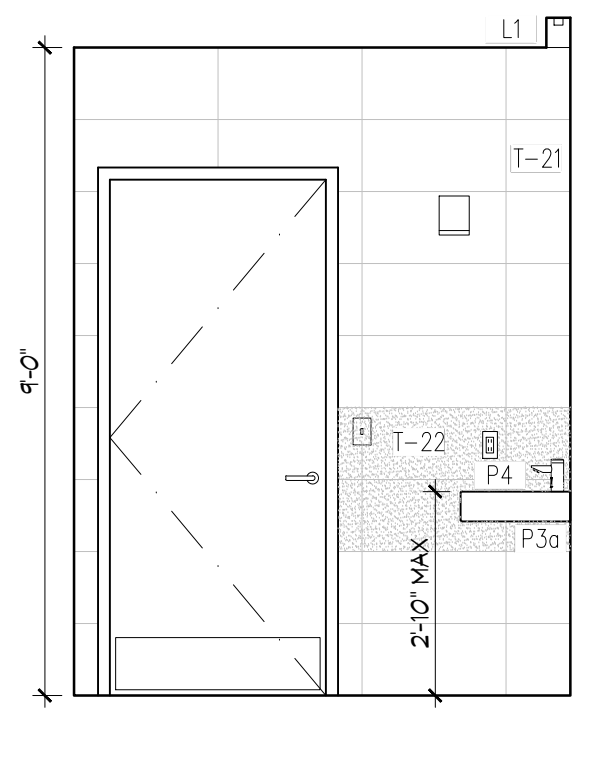
16 ALL GENDER 1007 NORTH
3/8" = 1'-0"



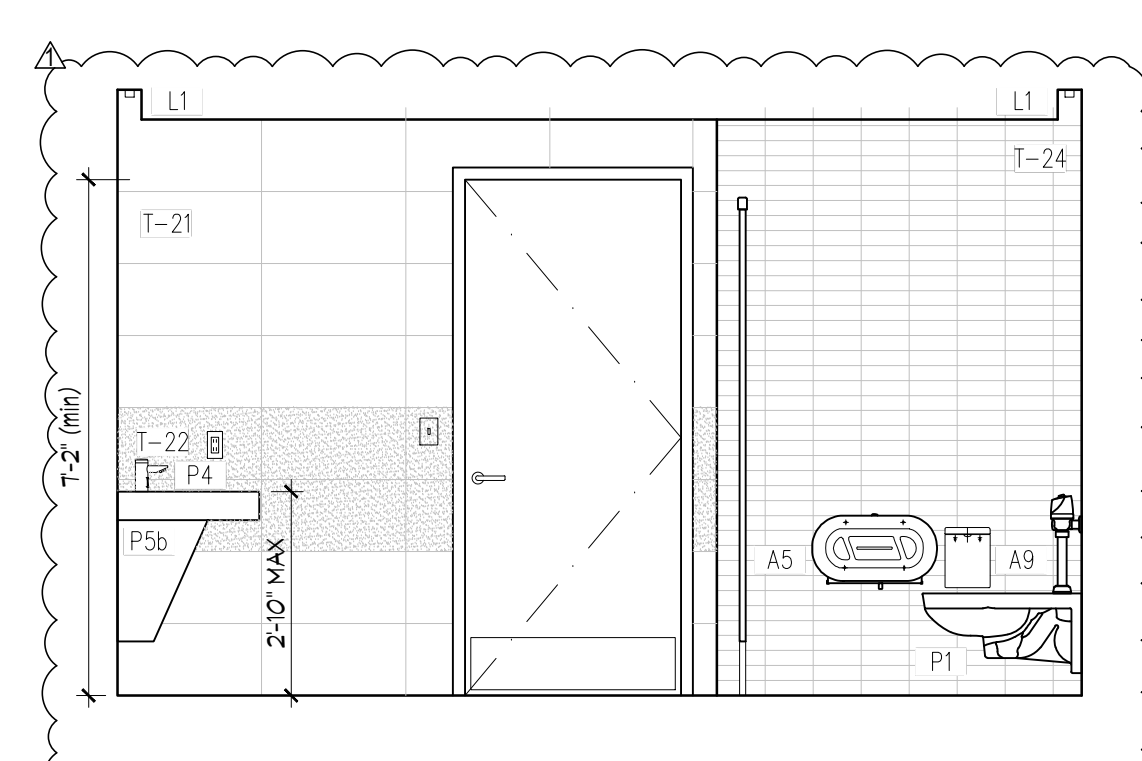
15 ALL GENDER 1007 WEST
3/8" = 1'-0"



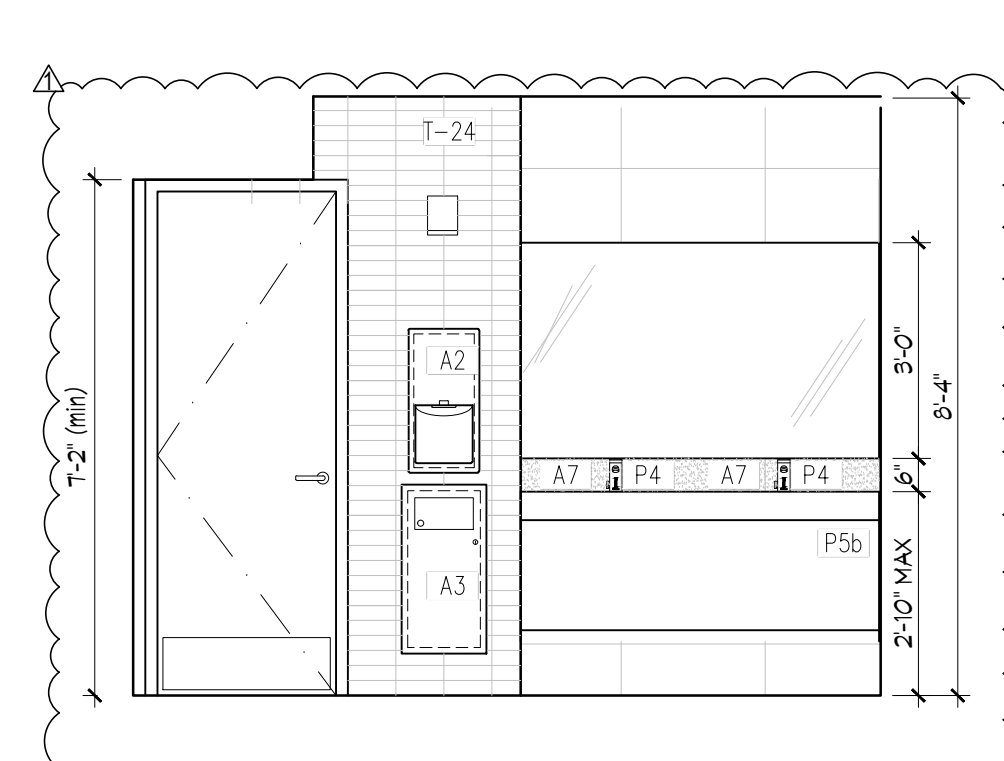
14 ALL GENDER 1007 SOUTH
3/8" = 1'-0"



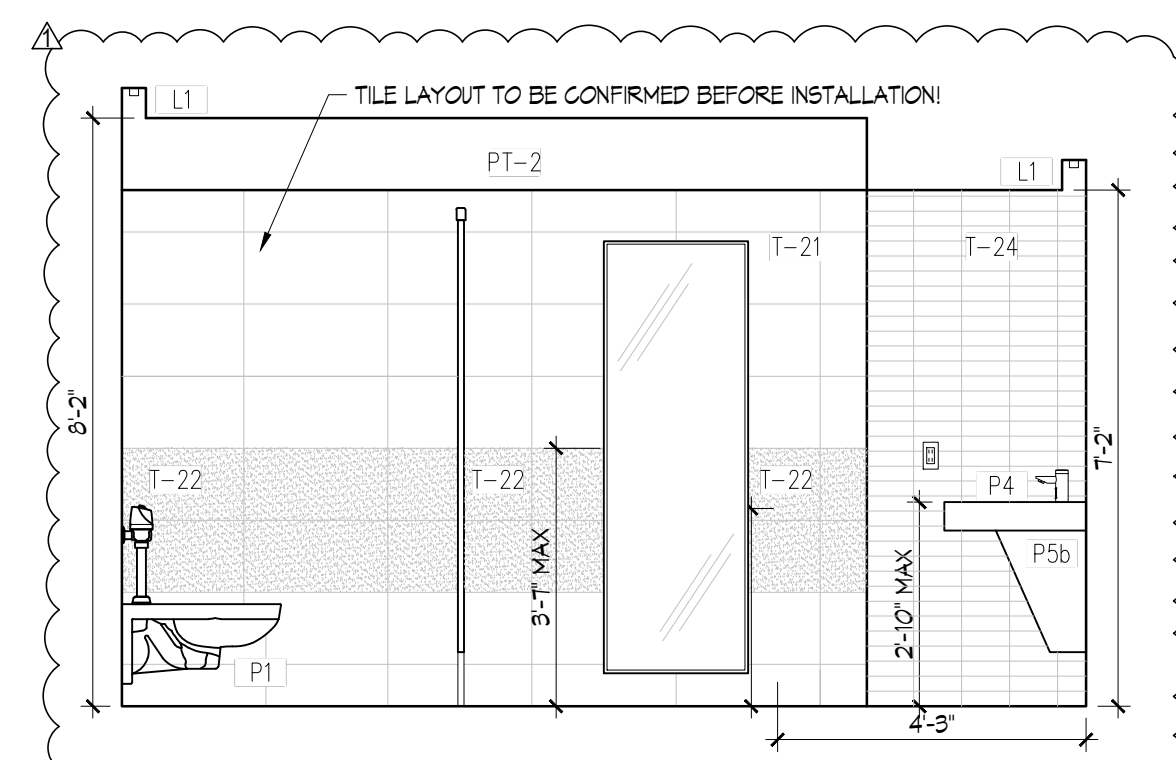
13 ALL GENDER 1007 EAST
3/8" = 1'-0"



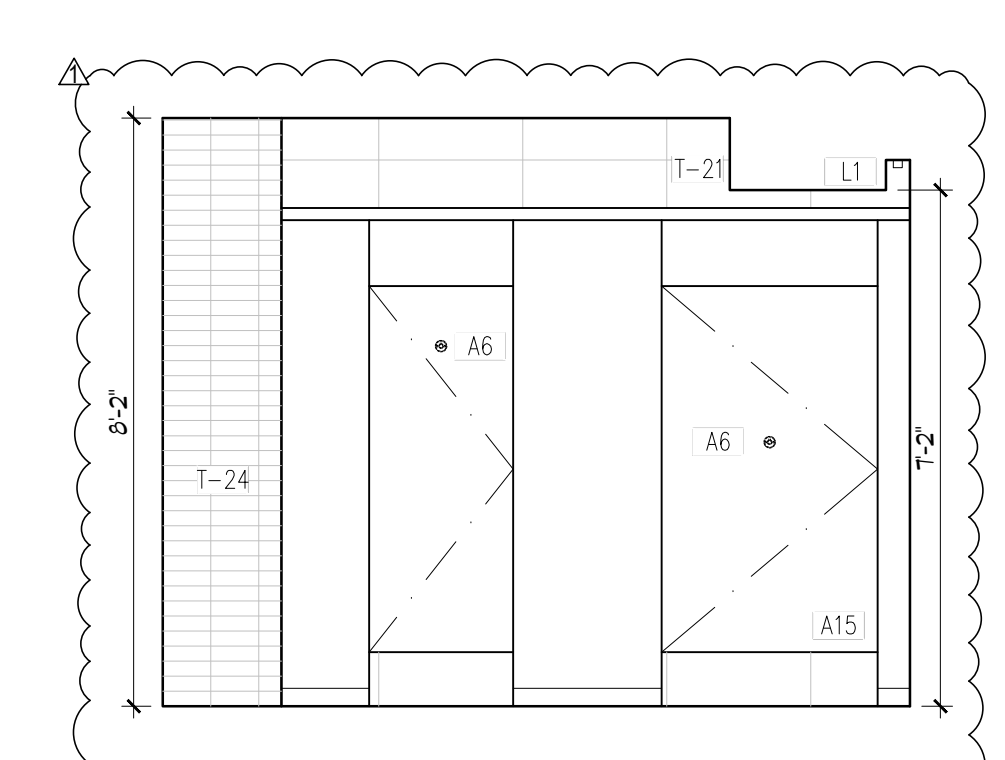
12 WOMEN'S 1006 NORTH
3/8" = 1'-0"



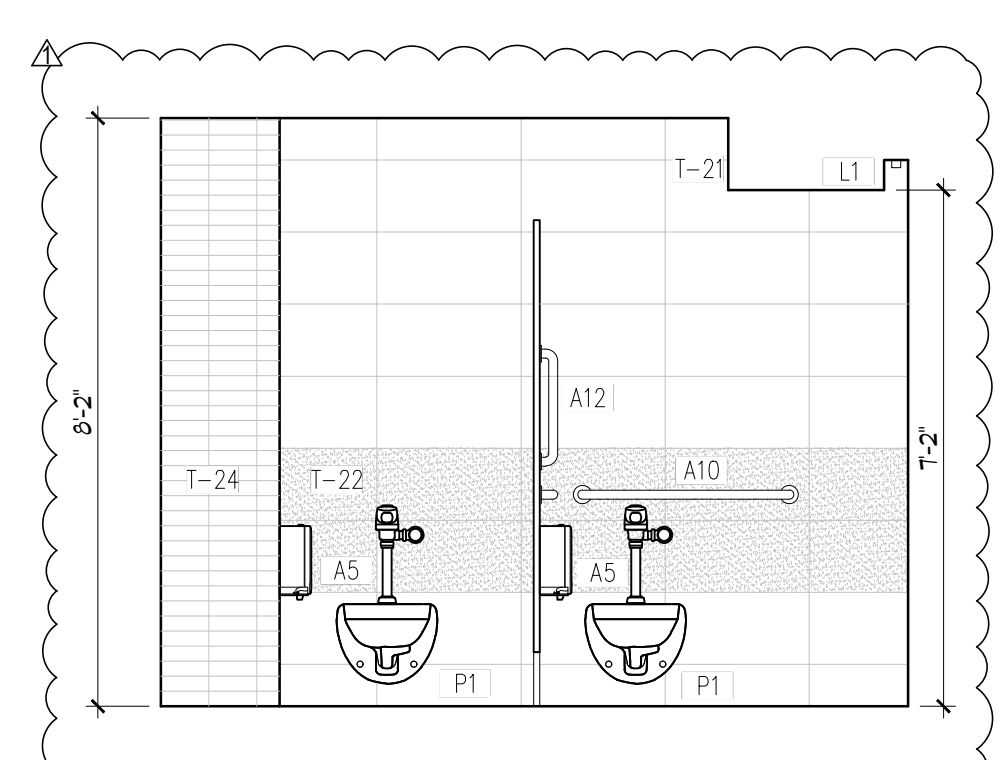
11 WOMEN'S 1006 WEST
3/8" = 1'-0"



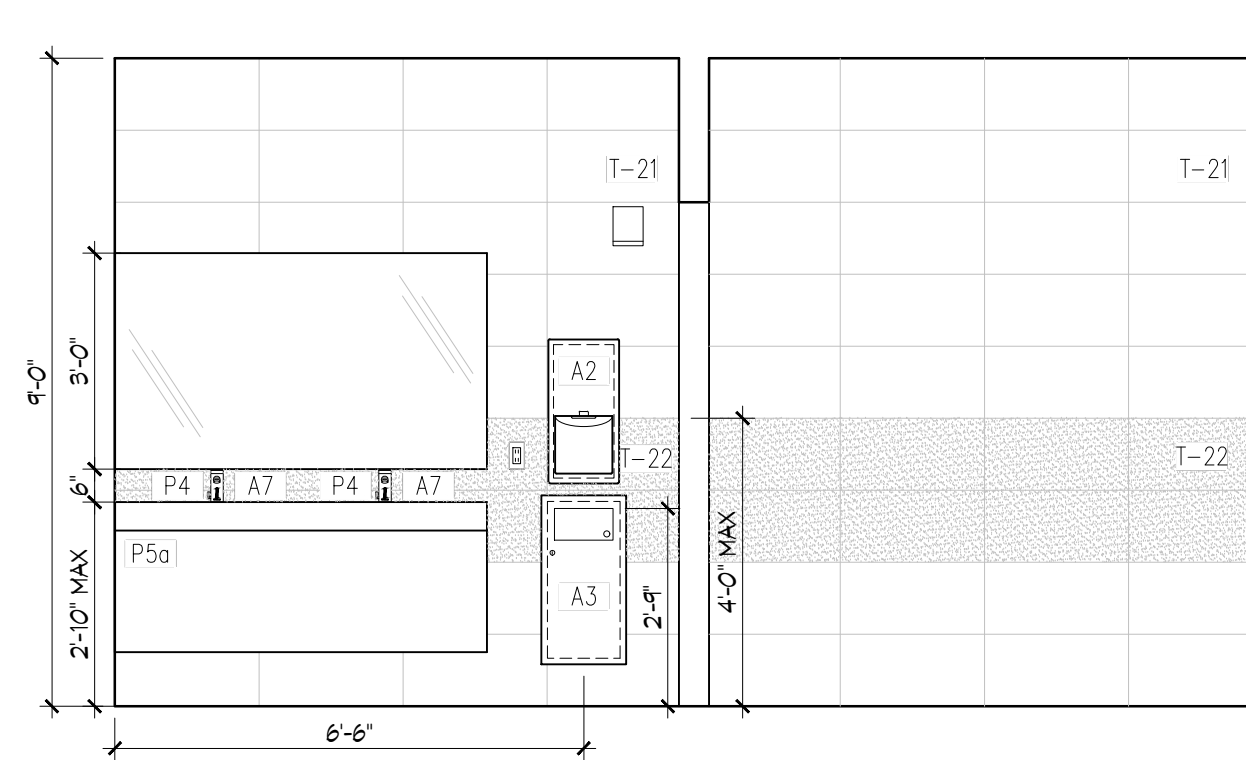
10 WOMEN'S 1006 SOUTH
3/8" = 1'-0"



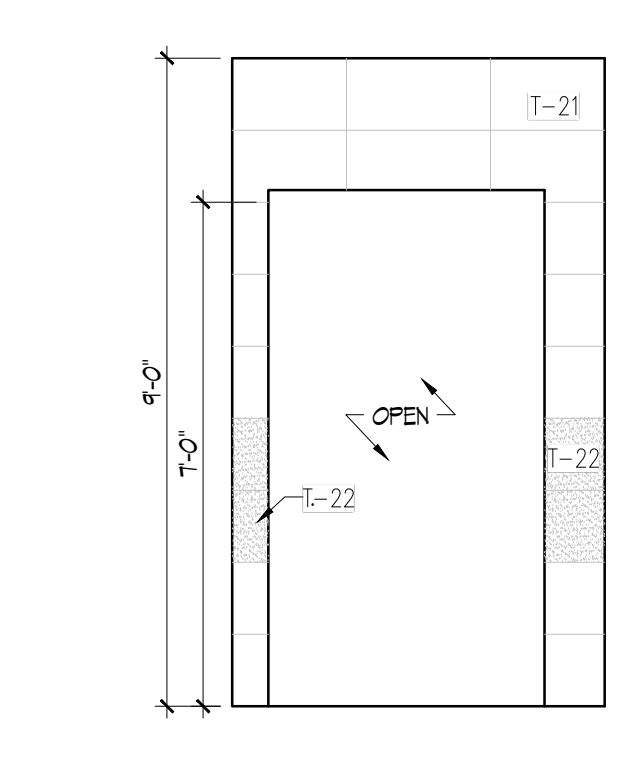
9 WOMEN'S 1006 EAST
3/8" = 1'-0"



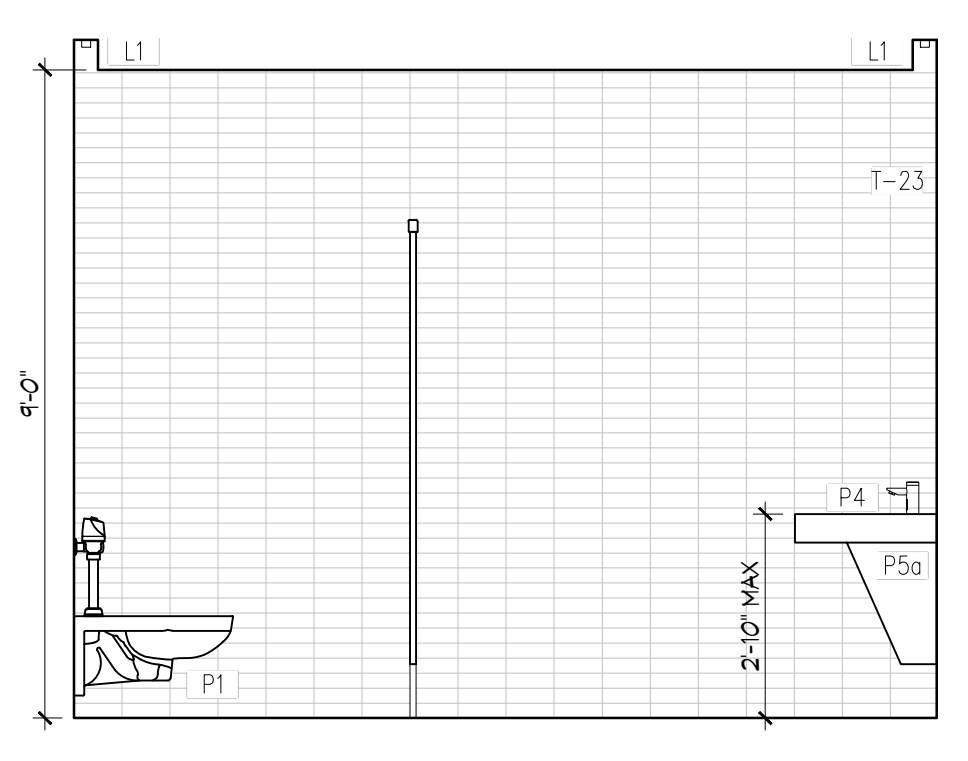
8 WOMEN'S 1006 EAST
3/8" = 1'-0"



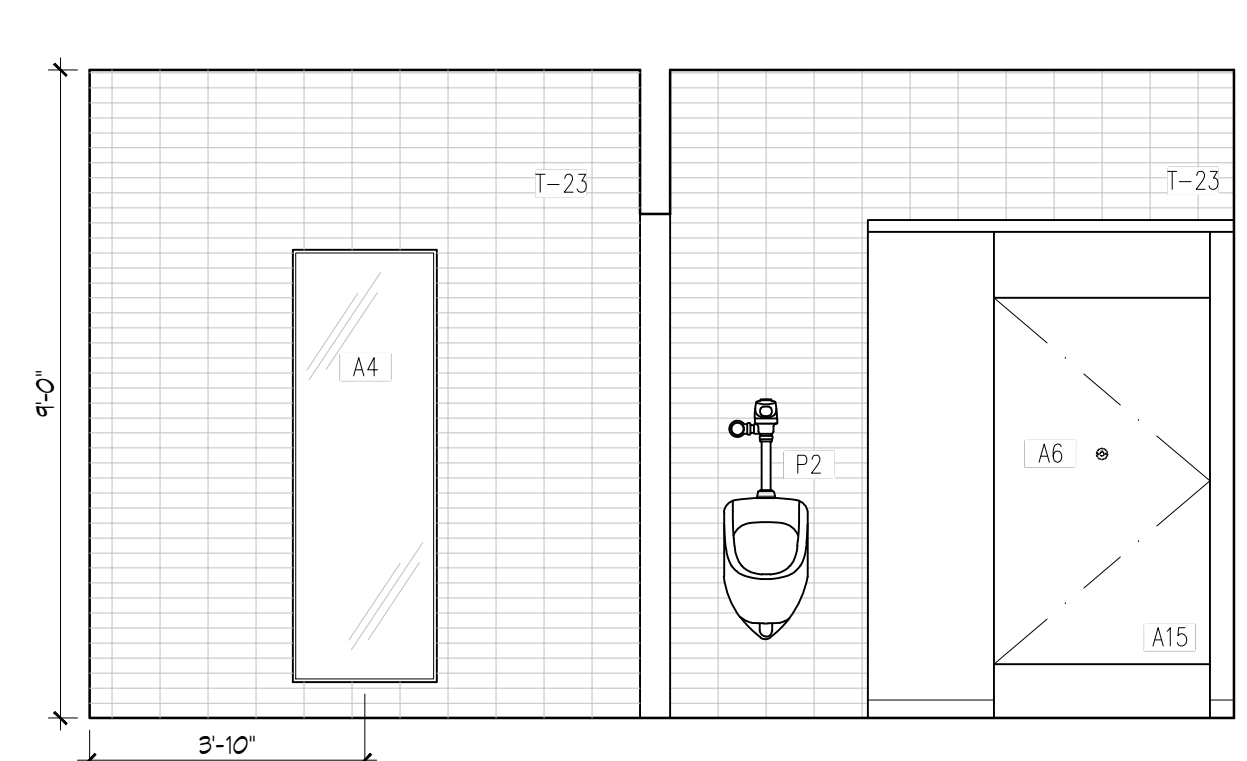
7 MEN'S 1009 NORTH
3/8" = 1'-0"



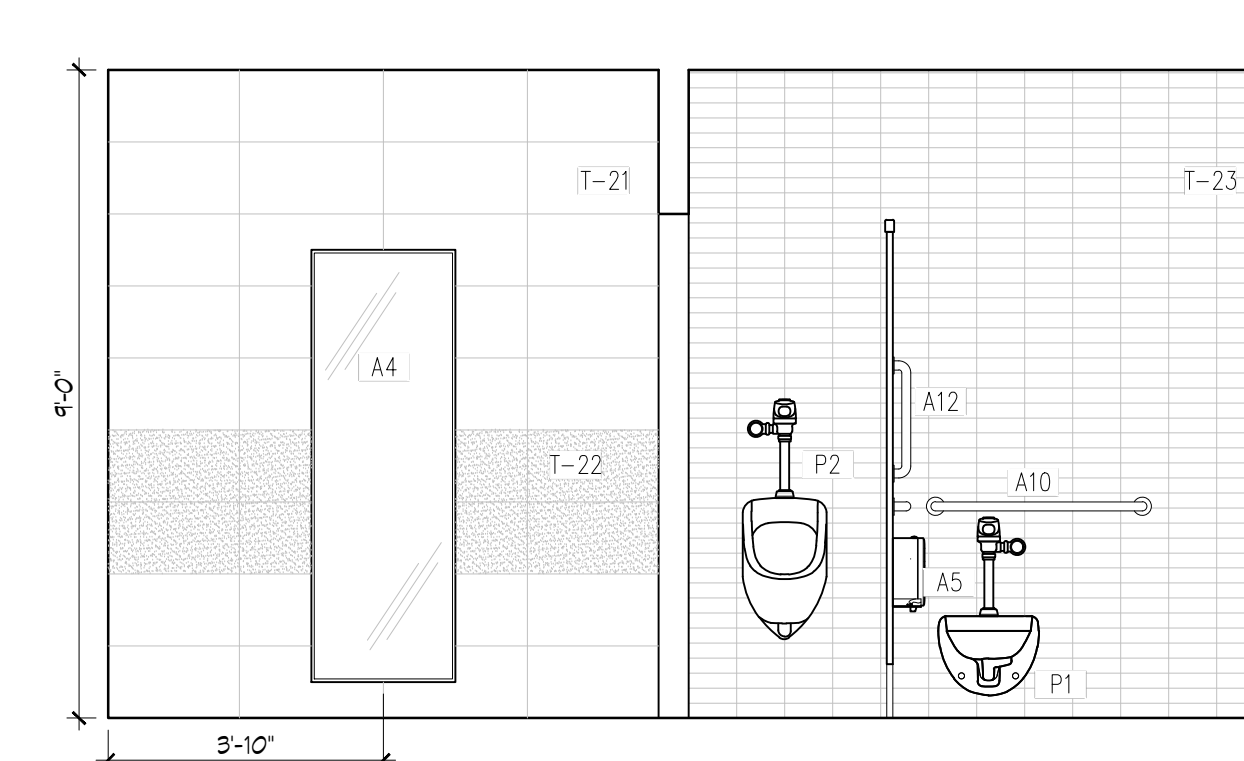
6 MEN'S 1009 WEST
3/8" = 1'-0"



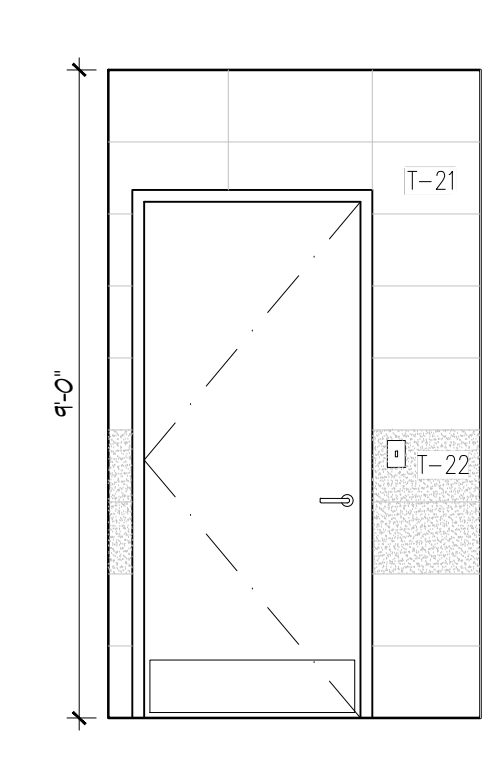
5 MEN'S 1009 WEST
3/8" = 1'-0"



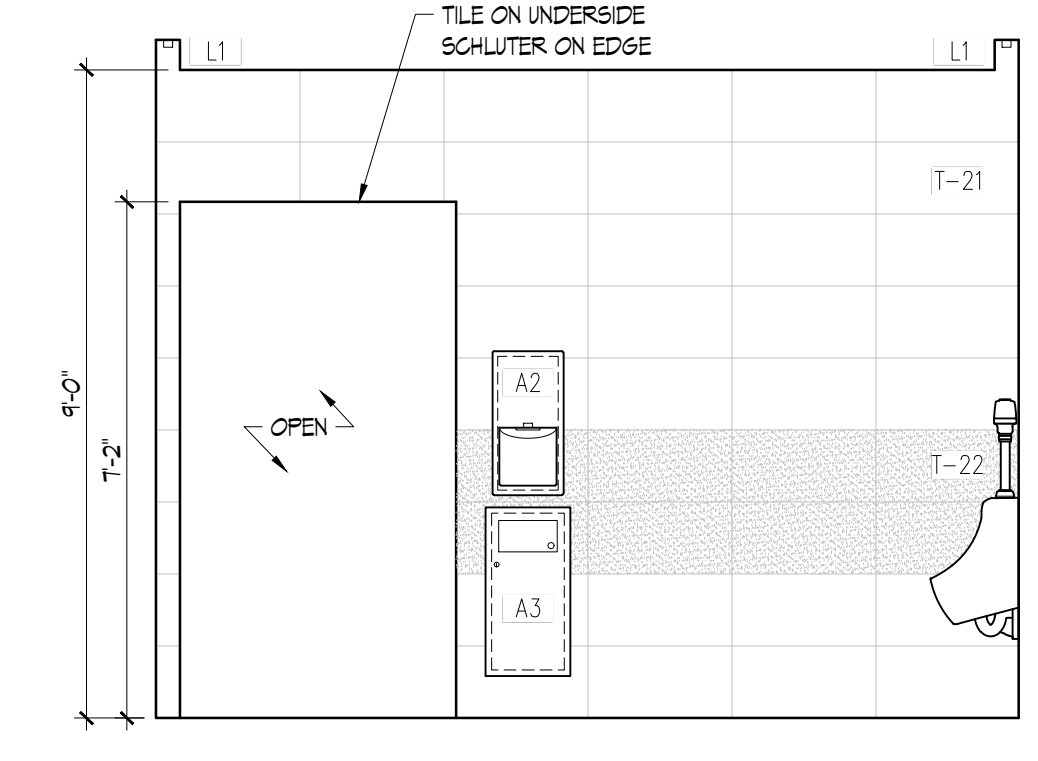
4 MEN'S 1009 SOUTH
3/8" = 1'-0"



3 MEN'S 1009 SOUTH
3/8" = 1'-0"



2 MEN'S 1009 EAST
3/8" = 1'-0"



1 MEN'S 1009 EAST
3/8" = 1'-0"

NOTES

- FOR PLAN RELATED NOTES INCLUDING DEMOLITION NOTES, RCP AND Foyer DEMO NOTES, CONSTRUCTION PLAN NOTES, REFLECTED CEILING PLAN NOTES AND OTHER RELATED NOTES REFER TO SHEET A-101

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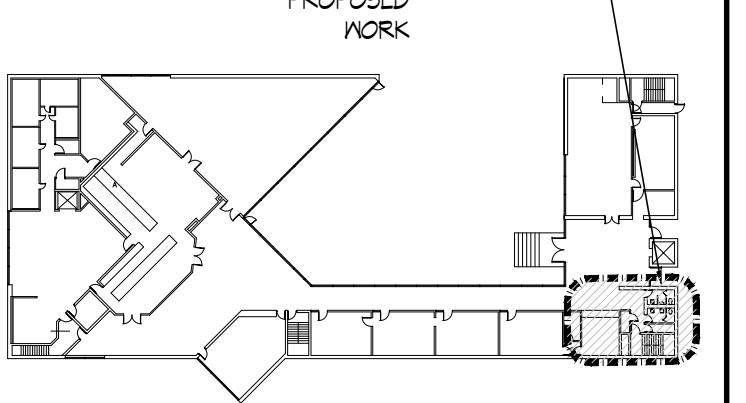
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	27 Feb 2023	Issue for Bid
▲	16 June 2023	Addendum #1

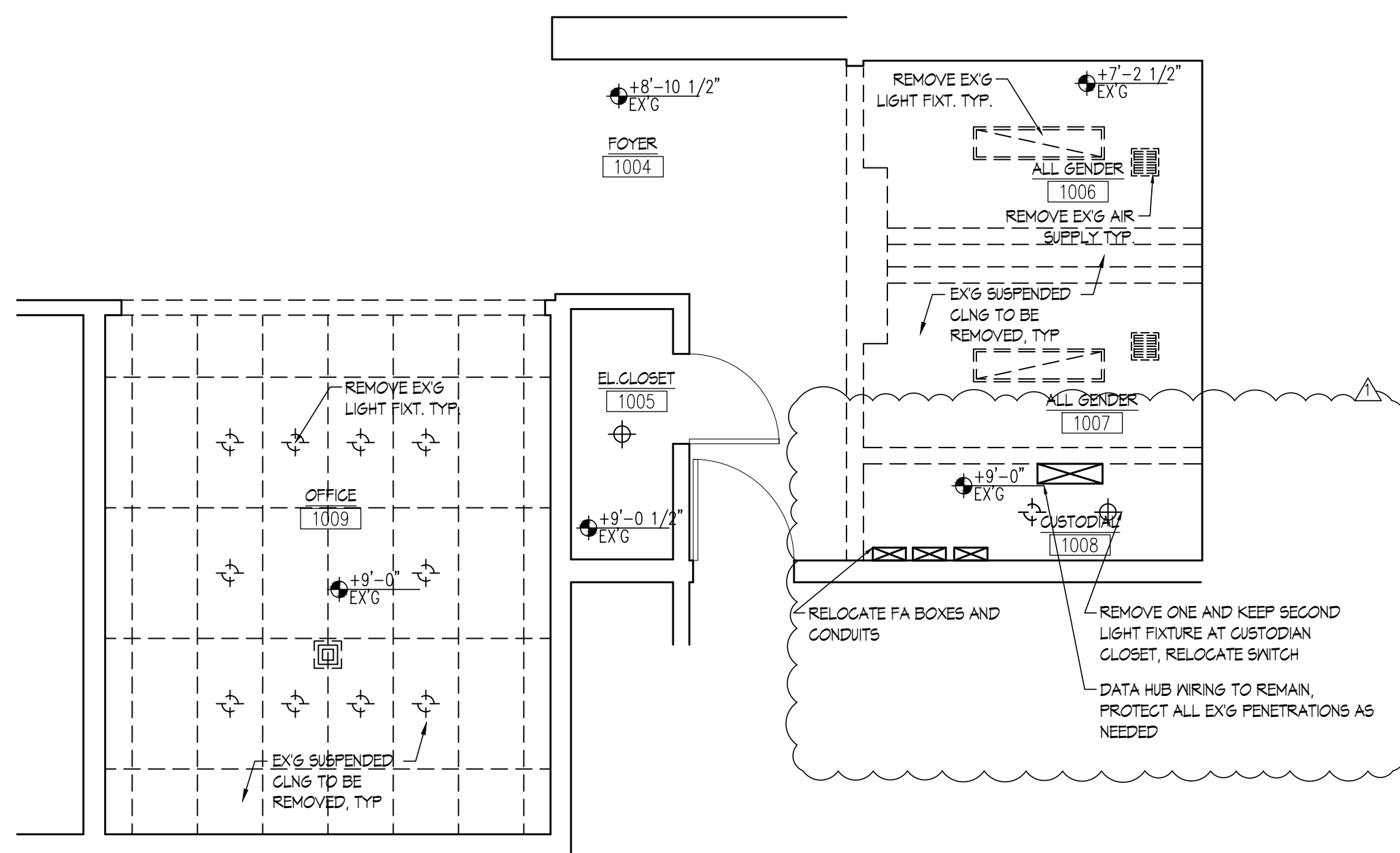
Keyplan



**Title
PLANS
CAMPUS CENTER NORTH**

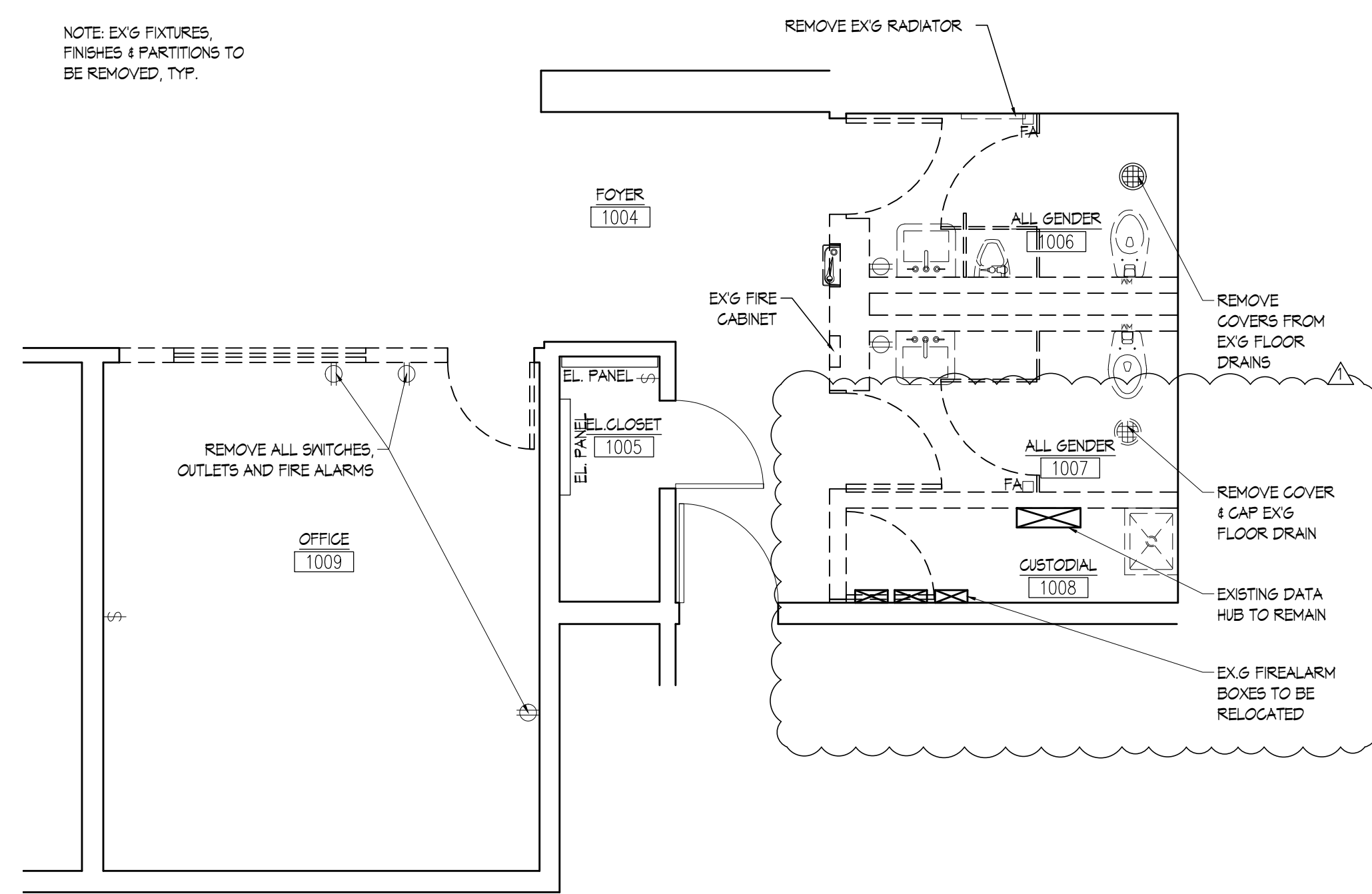
Date	01-16-2020
Project No.	1944
Drawing By	SJ, CQ
CHK By	SN
Scale	AS NOTED

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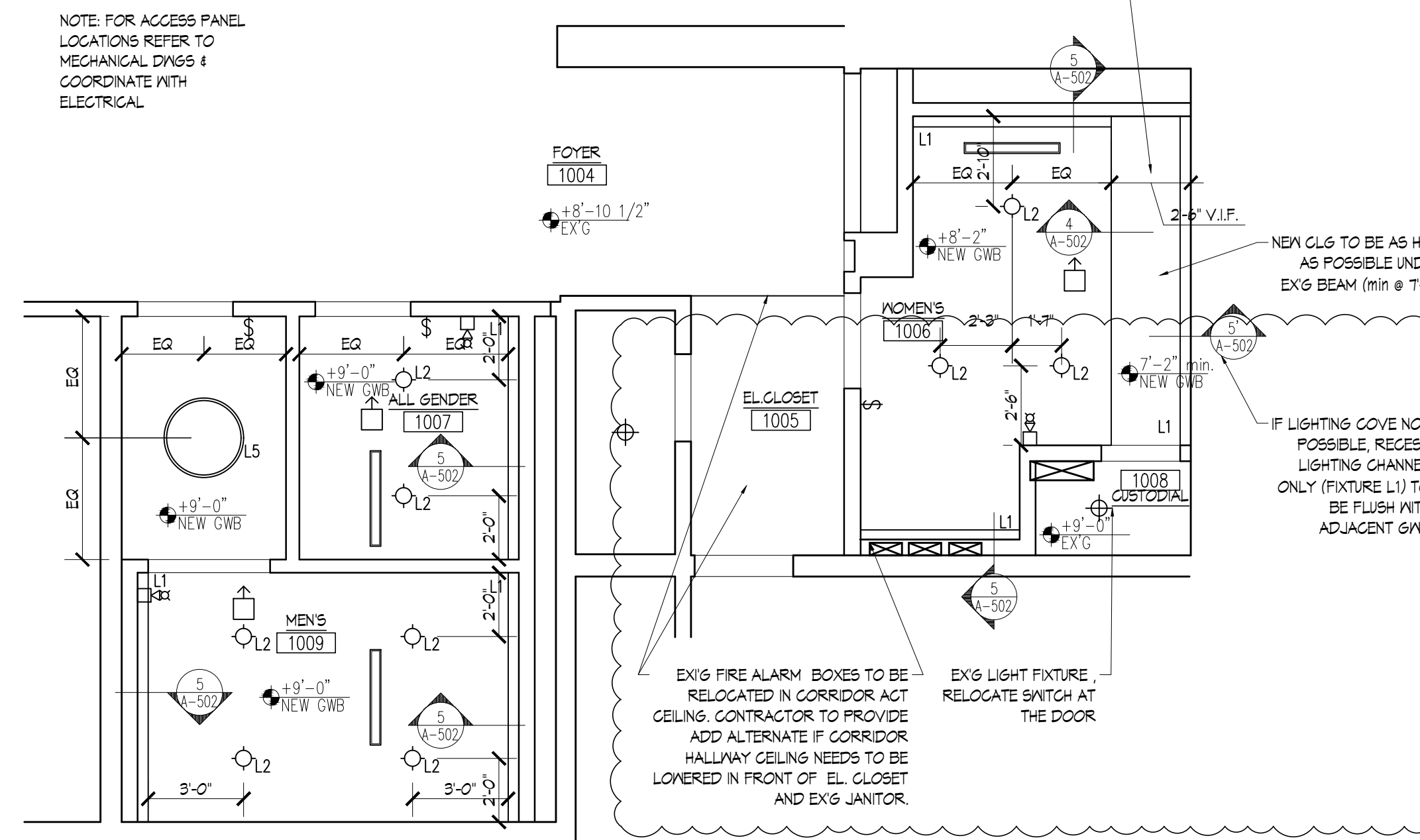


4 FIRST FLOOR DEMOLITION RCP
1/4" = 1'-0"

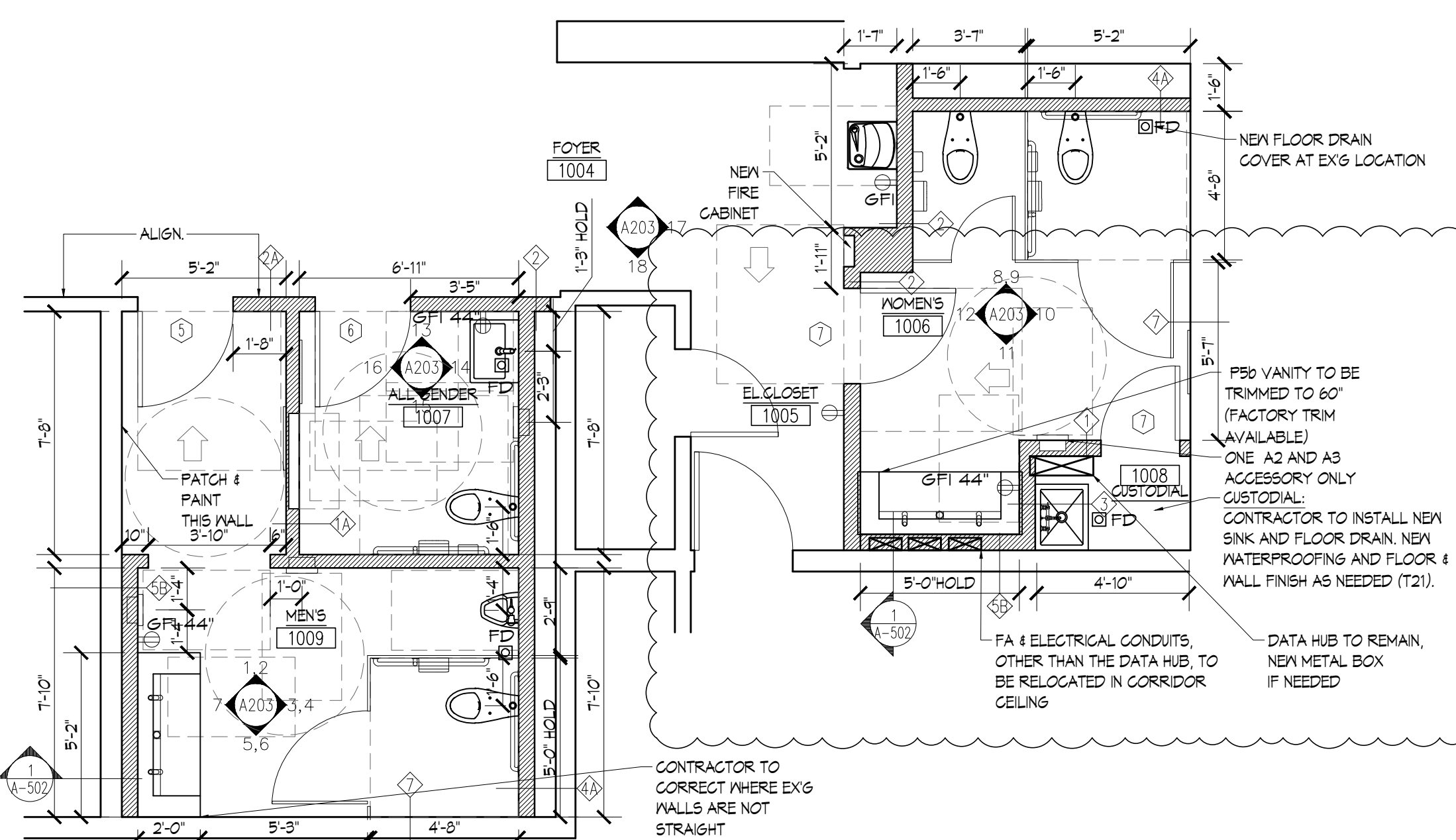
NOTE: EXG FIXTURES, FINISHES & PARTITIONS TO BE REMOVED, TYP.



2 FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"



3 FIRST FLOOR RCP
1/4" = 1'-0"



1 FIRST FLOOR CONSTRUCTION PLAN
1/4" = 1'-0"

GENERAL NOTES

- EXISTING WORK SHOWN IS BASED ON AVAILABLE DOCUMENTATION AND SPOT CHECKS ON SURVEY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ENGINEER PRIOR TO PROCEEDING WITH WORK.
- THE DEMOLITION PLAN IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA.
- CONTRACTOR SHALL SCHEDULE ALL WORK IN ACCORDANCE WITH OWNER'S REQUIREMENTS.
- CONTRACTOR TO FIELD COORDINATE ALL REMOVAL/STORAGE/DISPOSAL OF EXISTING EQUIPMENT WITH THE OWNER.
- CONTRACTOR TO COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER TO PATCH AND REPAIR AREAS AFFECTED BY DEMOLITION WORK.

DEMOLITION KEY NOTES

- RELOCATE EXISTING THERMOSTAT, SEE NEW WORK PLAN ON DWG. 2/M-101.00 FOR EXACT LOCATION.
- EXISTING UNIT HEATER AND ASSOCIATED PIPING, VALVES, ENCLOSURE, SUPPORTS, CONTROLS ETC. TO REMAIN UNLESS OTHERWISE NOTED.
- REMOVE EXISTING SUPPLY/EXHAUST GRILLE AND ASSOCIATED DUCTWORK, ACCESSORIES, FITTINGS, HANGERS AND SUPPORTS FROM POINT OF DISCONNECTION SHOWN.
- REMOVE EXISTING TRANSFER GRILLE AND ASSOCIATED DUCTWORK, ACCESSORIES, FITTINGS, HANGERS AND SUPPORTS.

SHEET KEY NOTES

- PROVIDE EXHAUST LINEAR DIFFUSER AT THE LOCATION SHOWN AND COORDINATE WITH ARCH. RCP. (TYP.)
- ALL UNUSED DUCT OPENINGS SHALL BE CAP AND SEALED AIR TIGHT.
- PROVIDE A NEW CONTROL WIRING FROM THE RELOCATED THERMOSTAT TO EXISTING RHC-33
- PROVIDE DOOR LOUVER OF 0.4 SQ FT WITH 100% FREE AREA.

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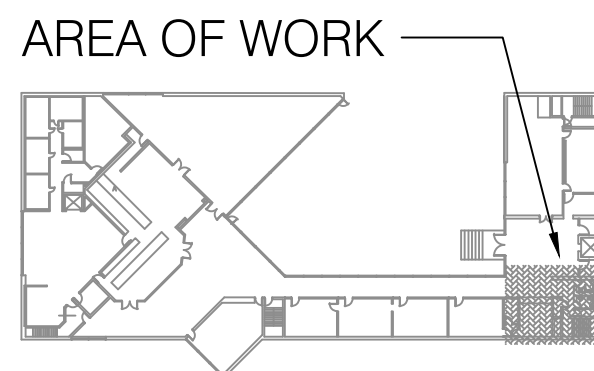
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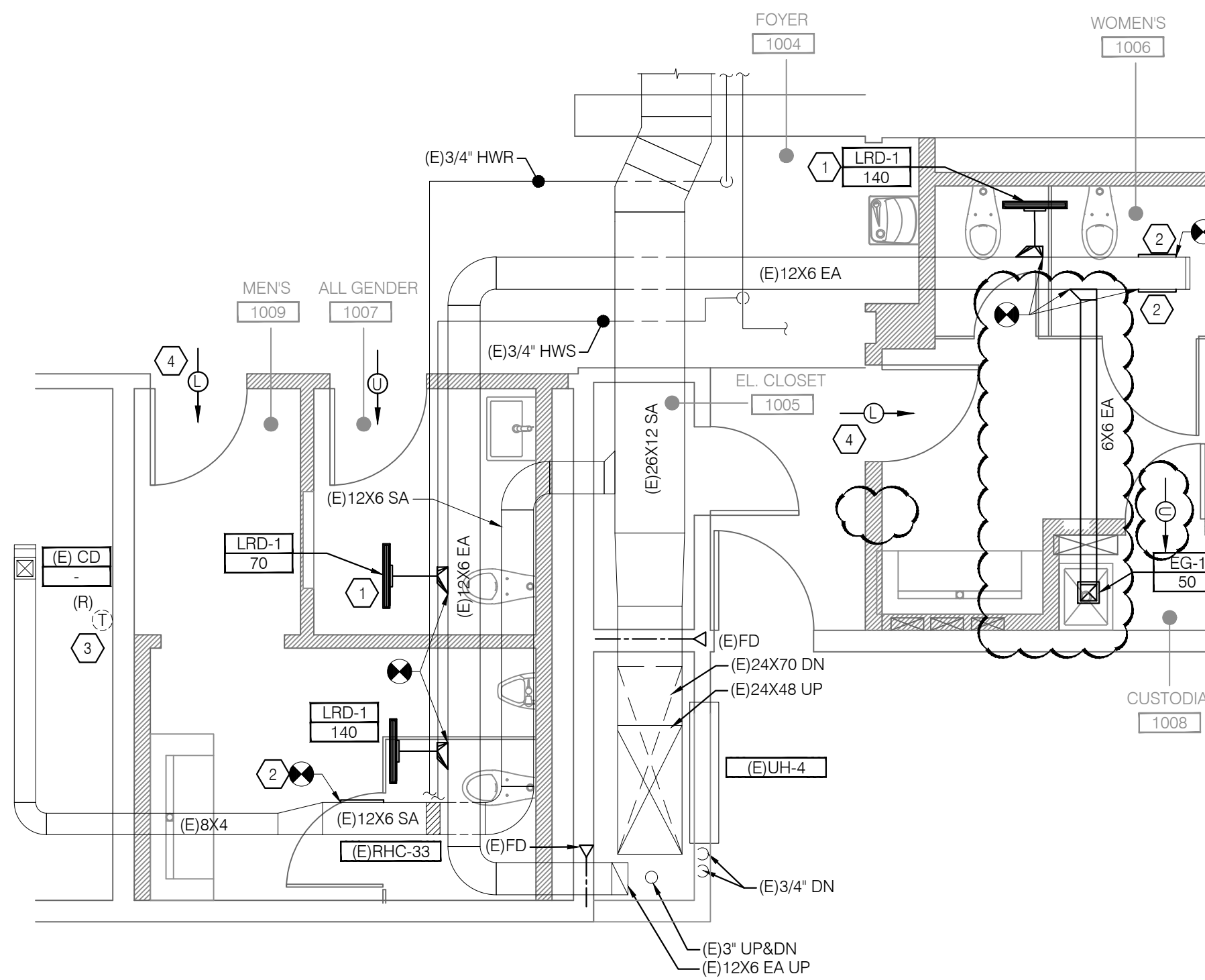
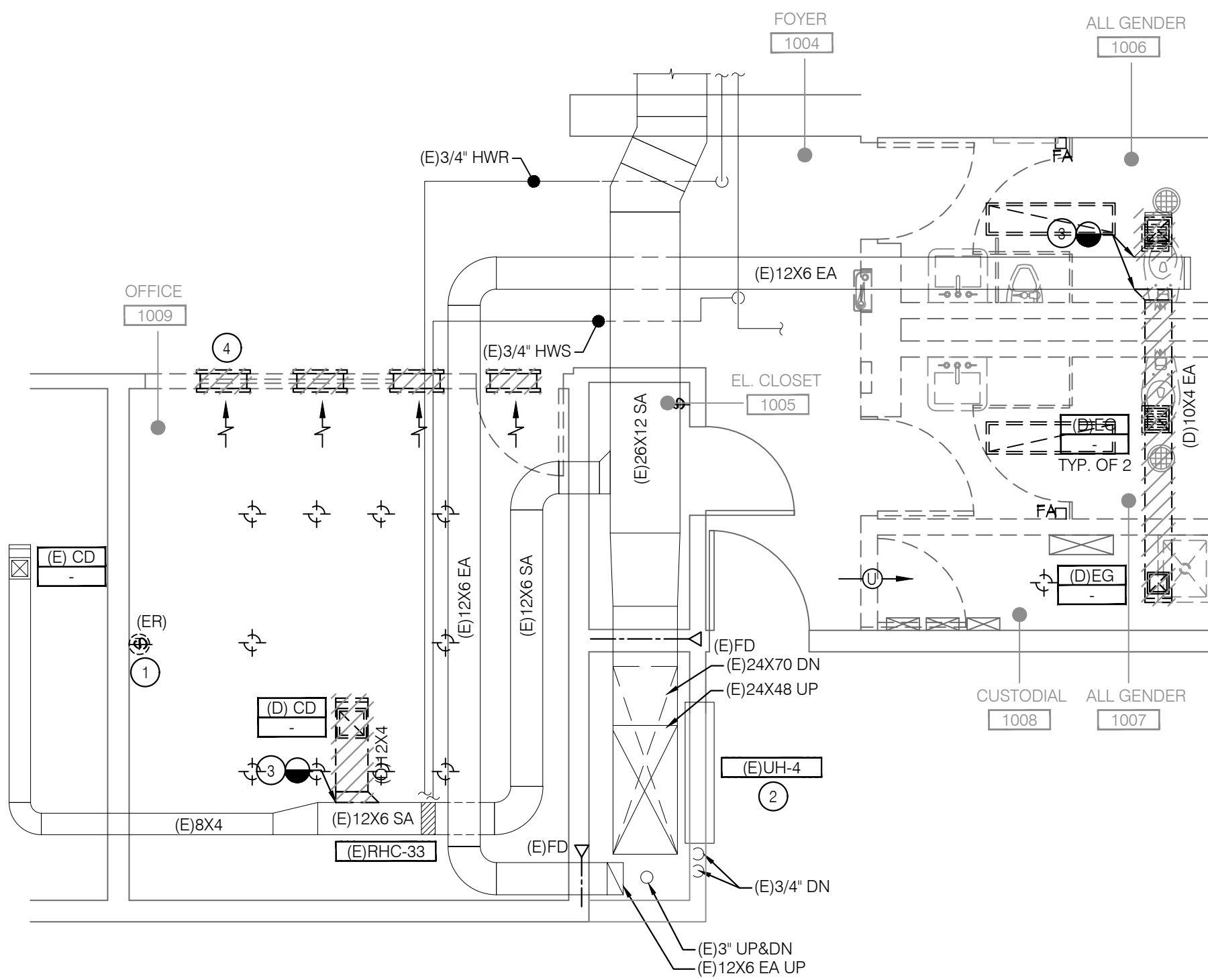
KEY PLAN



**Title
CAMPUS CENTER NORTH -
MECHANICAL PLANS**

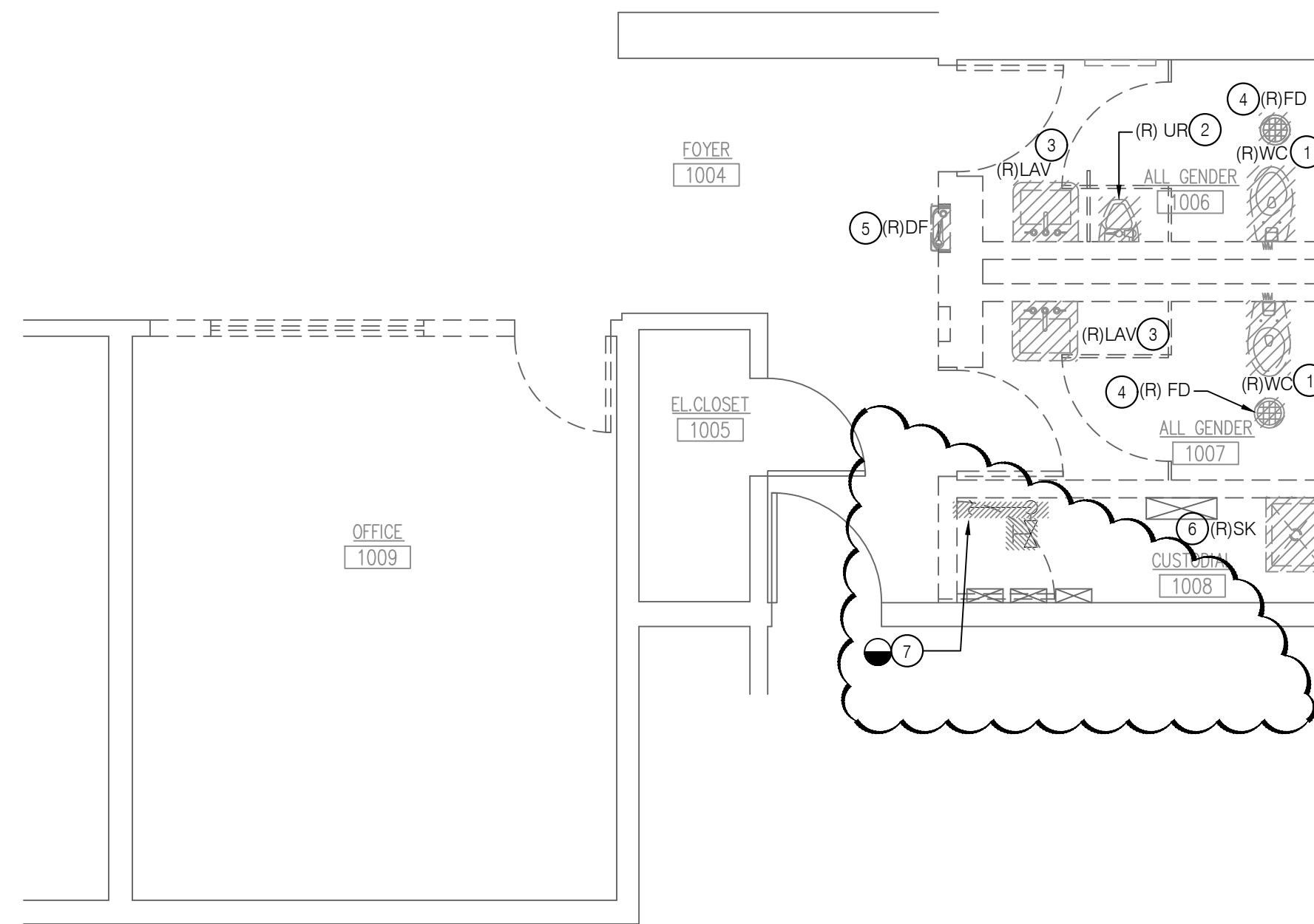
Date	06-15-2023
Project No.	1944
Drawing By	AKV
CHK By	BS
Scale	AS NOTED

M-102.00

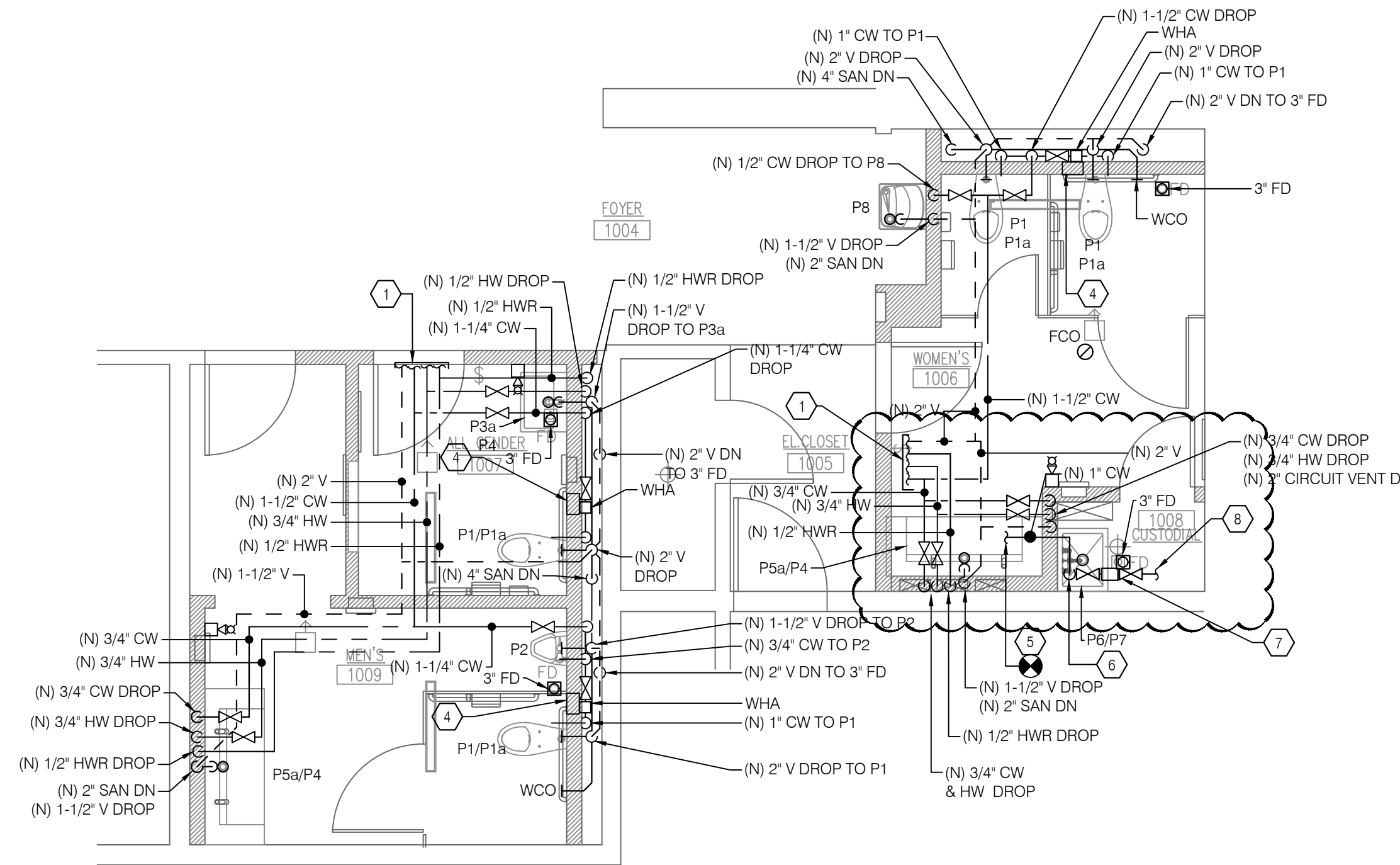


1 FIRST FLOOR PLAN - MECHANICAL REMOVALS
SCALE: 1/4" = 1'-0"

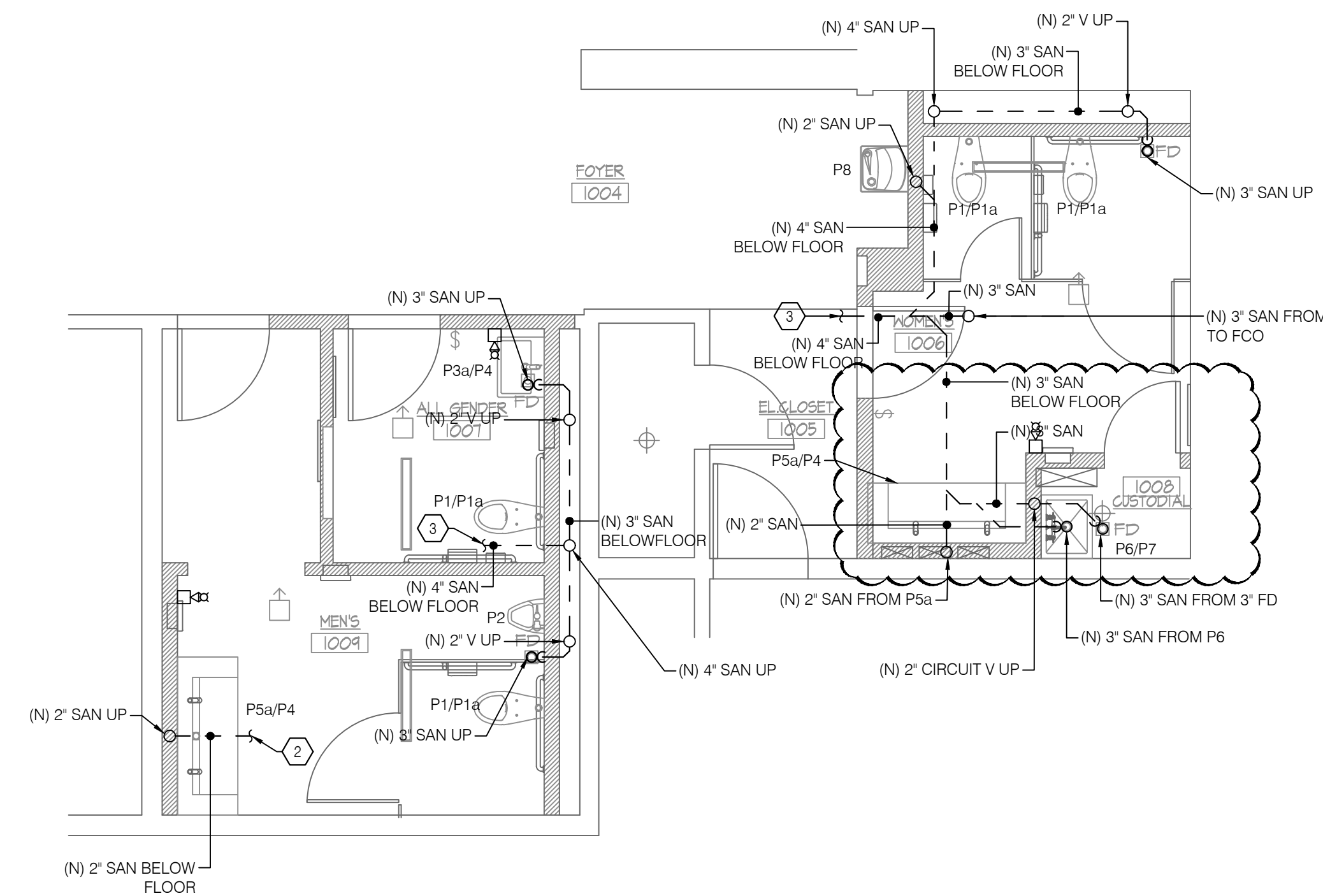
2 FIRST FLOOR PLAN - MECHANICAL NEW WORK
SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLAN - PLUMBING REMOVALS
P-105.00 SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN - PLUMBING NEW WORK
P-102.00 SCALE: 1/4" = 1'-0"



3 FIRST FLOOR PLAN - PLUMBING NEW WORK (BELOW FLOOR PLAN)
P-102.00 SCALE: 1/4" = 1'-0"

- ### DEMOLITION KEY NOTES
- REMOVE EXISTING WATER CLOSET, FLUSH VALVE, CARRIER AND ASSOCIATED PIPES.
 - REMOVE EXISTING URINAL, FLUSH VALVE, CARRIER AND ASSOCIATED PIPES.
 - REMOVE EXISTING LAVATORY, FAUCET ALONG WITH P-TRAP CONNECTIONS AND ASSOCIATED PIPES.
 - REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPES.
 - REMOVE EXISTING DRINKING FOUNTAIN AND ALL ASSOCIATED PIPES.
 - REMOVE EXISTING SINK, FAUCET ALONG WITH P-TRAP CONNECTIONS AND ASSOCIATED PIPES.
 - REMOVE EXISTING CW PIPING, VALVES AND APPURTENANCES BACK TO NEAREST BRANCH / MAIN AND CAP FOR RECONNECTION ABOVE CEILING. REMOVALS DOWNSTREAM OF INDICATED CONTROL VALVE BY FIRE PROTECTION CONTRACTOR. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR REMOVALS ASSOCIATED WITH THIS CW PIPING.

- ### NEW WORK KEY NOTES
- CONNECT NEW 2" VENT, 1-1/2" CW 3/4" HW AND 1/2" HWR PIPES TO NEAREST EXISTING RESPECTIVE PIPES AT CEILING.
 - CONNECT NEW 2" SANITARY PIPE TO NEAREST EXISTING SANITARY PIPE AT FLOOR BELOW.
 - CONNECT NEW 4" SANITARY PIPE TO NEAREST EXISTING SANITARY PIPE AT FLOOR BELOW.
 - ACCESS PANEL TO ACCESS BALL VALVE AND WATER HAMMER ARRESTOR.
 - CONNECT NEW 1" CW PIPE TO NEAREST EXISTING 1" CW PIPE.
 - 1" CW DROP BELOW EXISTING CEILING
 - NEW DOUBLE CHECK VALVE, BASIS OF DESIGN WATTS MODEL LF007 VALVE SHALL BE INSTALLED IN ACCESSIBLE LOCATION SUCH THAT VALVE HANDLES ARE NO GREATER THAN 7'-0" ABOVE FINISHED FLOOR. COORDINATE WITH ARCHITECT AND FIRE PROTECTION FOR EXACT LOCATION.
 - 1" SPRINKLER PIPING SHOWN FOR REFERENCE ONLY. PIPING DOWNSTREAM OF DOUBLE CHECK VALVE CAPTURED UNDER FIRE PROTECTION SCOPE OF WORK. REFER TO FIRE PROTECTION PLANS.

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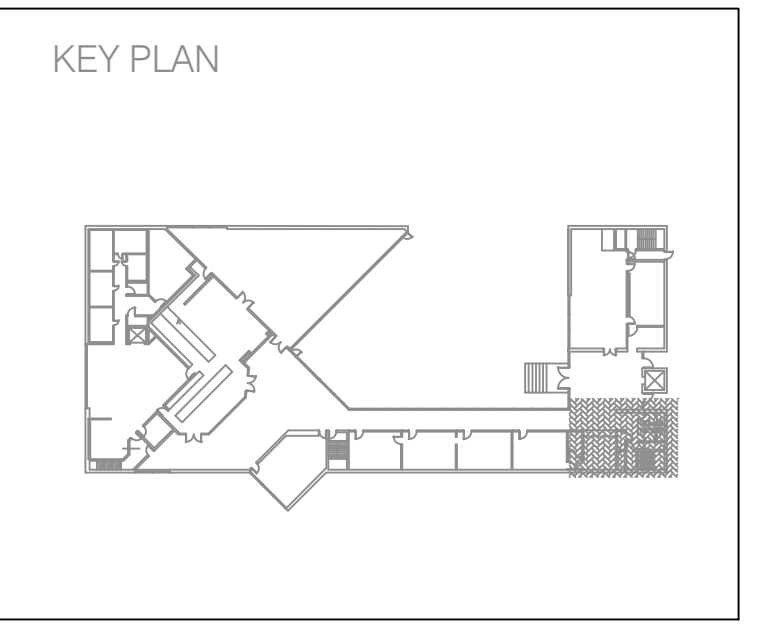
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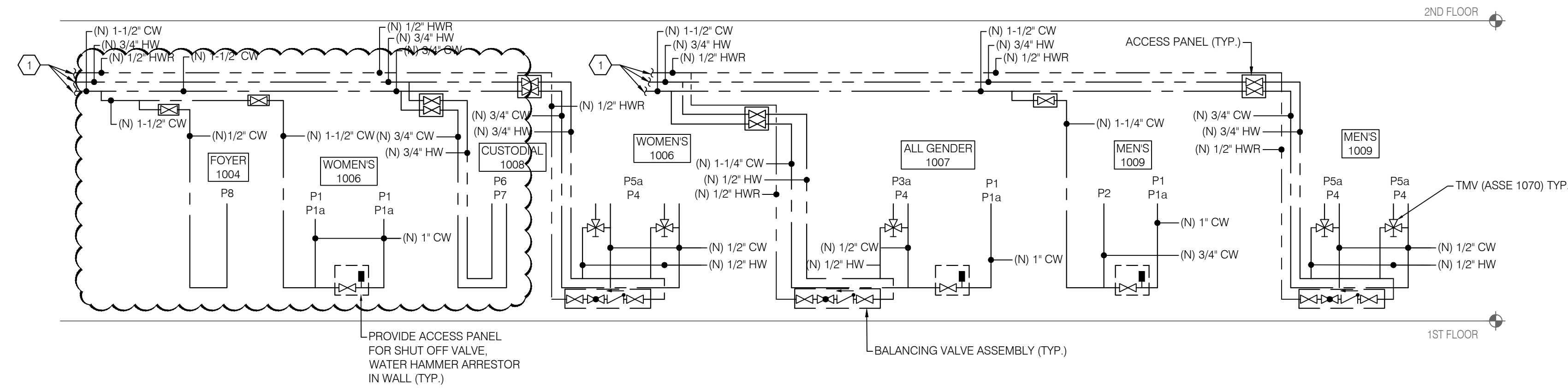
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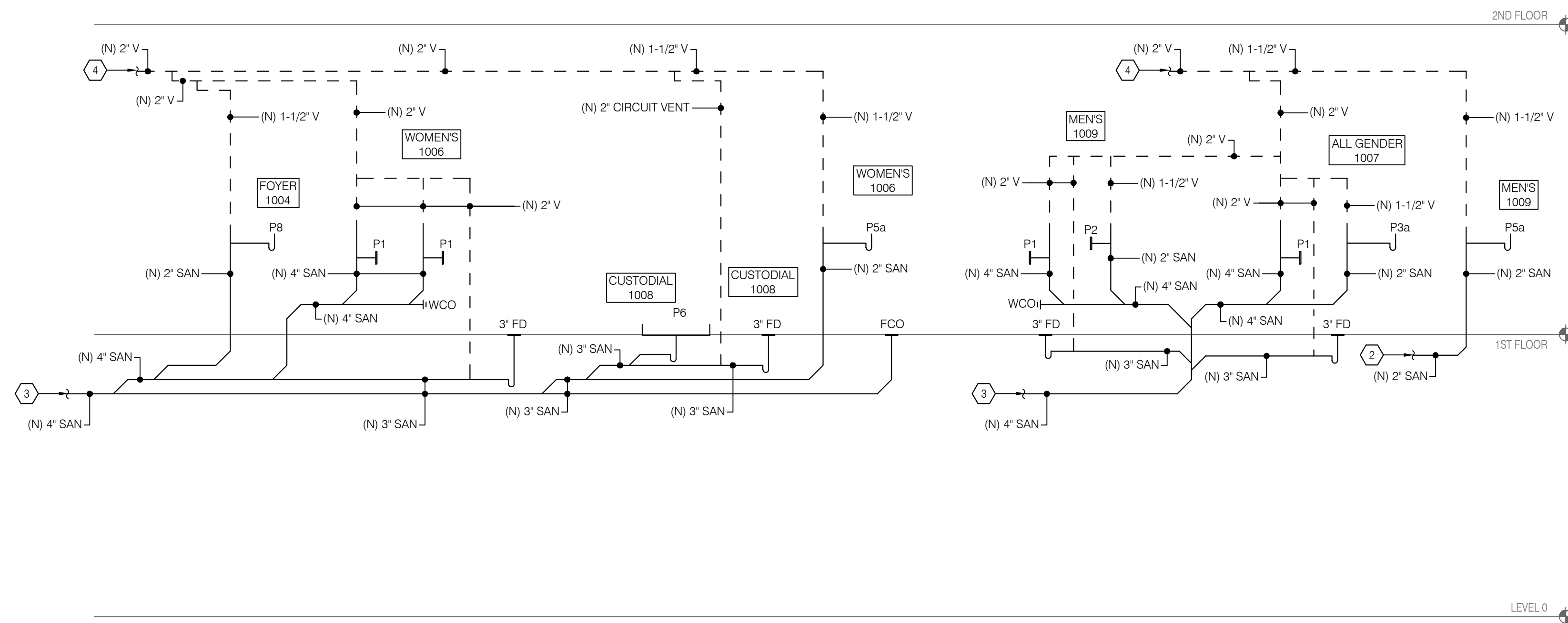
CAMPUS CENTER NORTH-PLUMBING PLANS

Date	06-15-2023
Project No.	1944
Drawing By	CHS
CHK By	EB
Scale	AS NOTED
	DOB Rev
P-102.00	





1 PARTIAL WATER RISER DIAGRAM (CAMPUS CENTRE NORTH)
P-505.00 SCALE: NOT TO SCALE



2 PARTIAL SANITARY RISER DIAGRAM (CAMPUS CENTRE NORTH)
P-505.00 SCALE: NOT TO SCALE

- SHEET KEY NOTES**
- CONNECT NEW 1-1/2" CW, 3/4" HW AND 1/2" HWR PIPES TO NEAREST EXISTING RESPECTIVE PIPES AT CEILING.
 - CONNECT NEW 2" SANITARY PIPE TO NEAREST EXISTING SANITARY PIPE AT FLOOR BELOW.
 - CONNECT NEW 4" SANITARY PIPE TO NEAREST EXISTING SANITARY PIPE AT FLOOR BELOW.
 - CONNECT NEW 2" VENT PIPE TO NEAREST EXISTING RESPECTIVE PIPE AT CEILING.

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Title
**CAMPUS CENTER NORTH -
PLUMBING RISER
DIAGRAMS**

Date 06-15-2023
Project No. 1944
Drawing By CHS
CHK By EB
Scale AS NOTED

DOB Rev
P-502.00

PLUMBING FIXTURE SCHEDULE											
ID	FIXTURE	ADA	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	REMARKS	PLUMBING FIXTURE ROUGH-IN			
								CW	HW	WASTE	VENT
P1	WALL MOUNTED TOILET	YES	SLOAN	ST-2459	WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED, WALL OUTLET, SIPHON JET FLUSHING ACTION ACHIEVES 1000g MAP SCORE WHEN USED WITH ANY SLOAN FLUSHOMETER, 1 1/2" I.P.S. TOP SPUD INLET, STATIC LOAD RATING OF 750 LBS. WATER SPOT AREA 10 1/8" X 9 3/8" (26 CM X24 CM).	WALL MOUNT	1.28 GPF, FLUSHOMETER TOILET, FOR ADA SEAT HEIGHT SET AT 17" TO 19" FROM FINISHED FLOOR	-	-	4"	2"
P1a	SOLAR POWERED DUAL FLUSH	-	SLOAN	8111-1.6/1.1	EXPOSED, SOLAR POWERED, SENSOR ACTIVATED SLOAN SOLIS DUAL FLUSH MODEL WATER CLOSET FLUSHOMETER FOR WALL HUNG TOP SPUD BOWLS. FULL FLUSH (LARGE BUTTON) 1.6 GPF/6.0 LPF. REDUCED FLUSH (SMALL BUTTON) 1.1 GPF/4.2 LPF.	-	-	1"	-	-	-
P2	URINAL/FLUSH VALVE COMBO	YES	SLOAN	WESU-7000.1201	WHITE VITREOUS CHINA, WASHDOWN FLUSHING ACTION, INTEGRAL FLUSHING RIM, 3/4" I.P.S. TOP SPUD INLET, 2" NPT OUTLET FLANGE, VANDAL RESISTANT STRAINER ASSEMBLY INCLUDED, 100% FACTORY FLUSH TESTED, FLUSH VOLUME 0.125 GPF, SU-7009 URINAL AND SOLIS 8186 FLUSHOMETER COMBO.	WALL MOUNT	0.125 GPF EXPOSED SENSOR URINAL FLUSHOMETER	3/4"	-	2"	1-1/2"
P3a	WALL MOUNTED SINK	YES	DURAVIT	VERO	SINK DIMENSION 23 5/8" X 18 1/4" X 5 3/8", WHITE VITREOUS CHINA WITH OVER FLOW, ORDER NO 045460.27	WALL MOUNT	-	-	-	2"	1-1/2"
P3b	WALL MOUNTED SINK	YES	DURAVIT	VERO	SINK DIMENSION 31 1/2" X 18 1/4" X 5 3/8", WHITE VITREOUS CHINA WITH OVER FLOW, ORDER NO 045480.25	WALL MOUNT	-	-	-	2"	1-1/2"
P4	WALL MOUNTED SINK FAUCET	-	SLOAN	OPTIMA SOLIS EAF-875-15M	SOLAR POWERED, SENSOR ACTIVATED, ELECTRONIC, CHROME PLATED CONSTRUCTED METAL, HAND WASHING FAUCET, MAGNETIC SOLENOID VALVE, AUTOMATIC SELF ADAPTING SENSOR TECHNOLOGY, 6 VDC LITHIUM BATTERY BACK UP POWER	-	0.5 GPM FLOW RATE, PROVIDE ASSE #4029 THERMOSTATIC MIXING VALVE	1/2"	1/2"	-	-
P5a	VANITY SINK	YES	SOPHSTONE	SOPH-ST62	SINK DIMENSION 62" X 23 5/8" X 4-3/4" ADA COMPLIANT, SOPHSTONE COMPOSITE STONE WITH HONED FINISH, METICULOUSLY HAND CRAFTED, SMOOTH, EASY TO CLEAN SURFACE WITH STAIN RESISTANT QUALITIES, ECO- SENSITIVE WITH HIGH RECYCLED MATERIAL CONTENT.	WALL MOUNT	FOR SOPHSTONE VANITY COLORS REFER TO ARCHITECTURAL DRAWINGS	-	-	2"	1-1/2"
P5d	VANITY SINK	YES	SOPHSTONE	SOPH-ST144	SINK DIMENSION 114" X 23 5/8" X 4-3/4" ADA COMPLIANT, SOPHSTONE COMPOSITE STONE WITH HONED FINISH, METICULOUSLY HAND CRAFTED, SMOOTH, EASY TO CLEAN SURFACE WITH STAIN RESISTANT QUALITIES, ECO- SENSITIVE WITH HIGH RECYCLED MATERIAL CONTENT.	WALL MOUNT	FOR SOPHSTONE VANITY COLORS REFER TO ARCHITECTURAL DRAWINGS	-	-	2"	1-1/2"
P6	MOP SINK	-	ADVANCE TABCO	9-OP-20	16 GAUGE TYPE 304 SERIES STAINLESS STEEL SINK BOWL WITH FLOOR MOUNTED, SINK DIMENSION 21" X 25" X 10", FREE FLOW DRAIN.	FLOOR MOUNT	-	-	-	3"	2"
P7	MOP SINK WALL MOUNTED FAUCET	-	ADVANCE TABCO	K-240	BRASS CHROME PLATED BODY AND SPOUT, CHROME PLATED HANDLES, 8" O.C WATER SUPPLY, QUARTER TURN WEDGE STYLE HANDLES WITH COLORED HOT AND COLD INDEXES, VACUUM BREAKER, BUILT-IN STOPS.	-	-	3/4"	3/4"	-	-
P8	DRINKING FOUNTAIN	YES	ELKAY	LZSWSLP	ELKAY ENHANCED EZH20 BOTTLE FILLING STATION & SINGLE ADA COOLER, FILTERED 8 GPH FINISH WITH LIGHT GREY GRANITE, 115V/60HZ, FULL LOAD 5 AMPS WITH CHILLING CAPACITY OF 8.9 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, HANDS FREE, AUTOMATIC FILTER STATUS RESET, ENERGY SAVINGS, GREEN TICKER, LAMINAR FLOW, ANTIMICROBIAL, REAL DRAIN	WALL MOUNT	-	1/2"	-	2"	1-1/2"
3' FD	FLOOR DRAIN	-	PROSET	T35630-F-P	THE TRAP GUARD DEVICE IS AN INTEGRAL PART OF THE PROSET FLOOR DRAIN AND COMES AS A COMPLETE UNIT. THE DRAIN COMES WITH A PROTECTIVE PLASTIC STRAINER COVER AND A HEAVY PLUG UNDERNEATH THE STRAINER TOP.	FLOOR MOUNT	-	-	-	3"	2"

NOTE: *REFER TO ARCHITECTURAL PLANS FOR EXACT FIXTURE LOCATIONS, QUANTITIES AND ADA REQUIREMENTS. *PLUMBING FIXTURE SCHEDULE INDICATING THE SPECIFIED PRODUCT ARE BASIS OF DESIGN.

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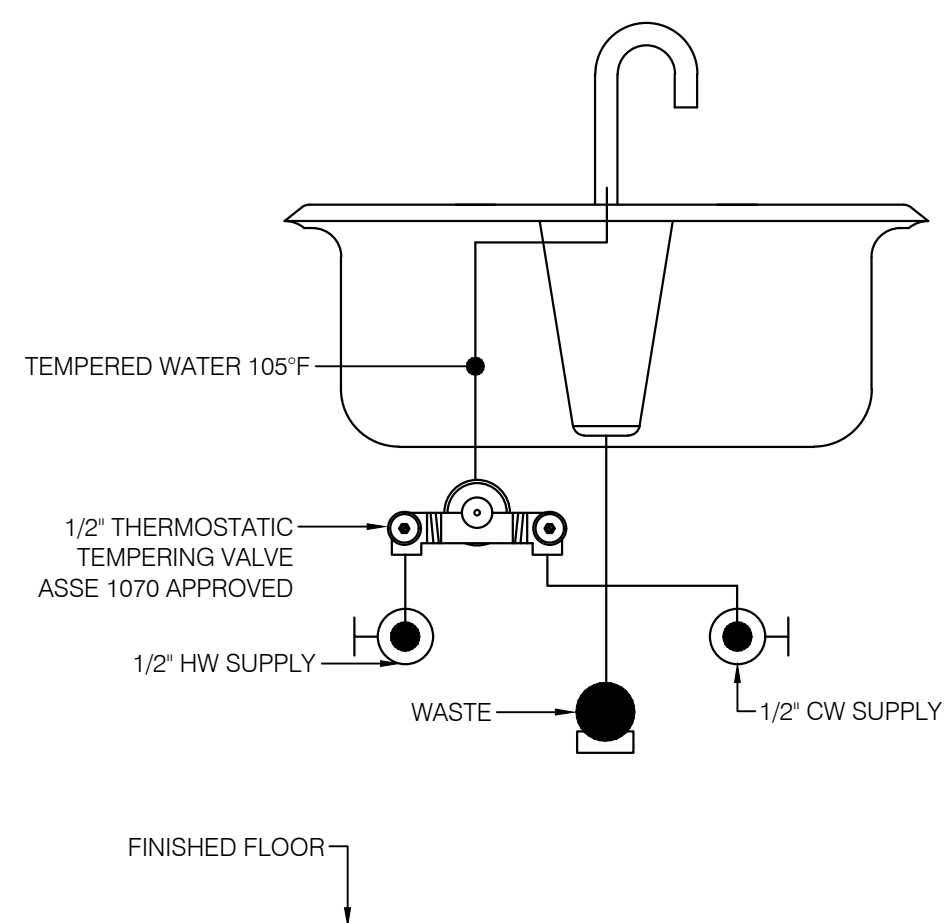
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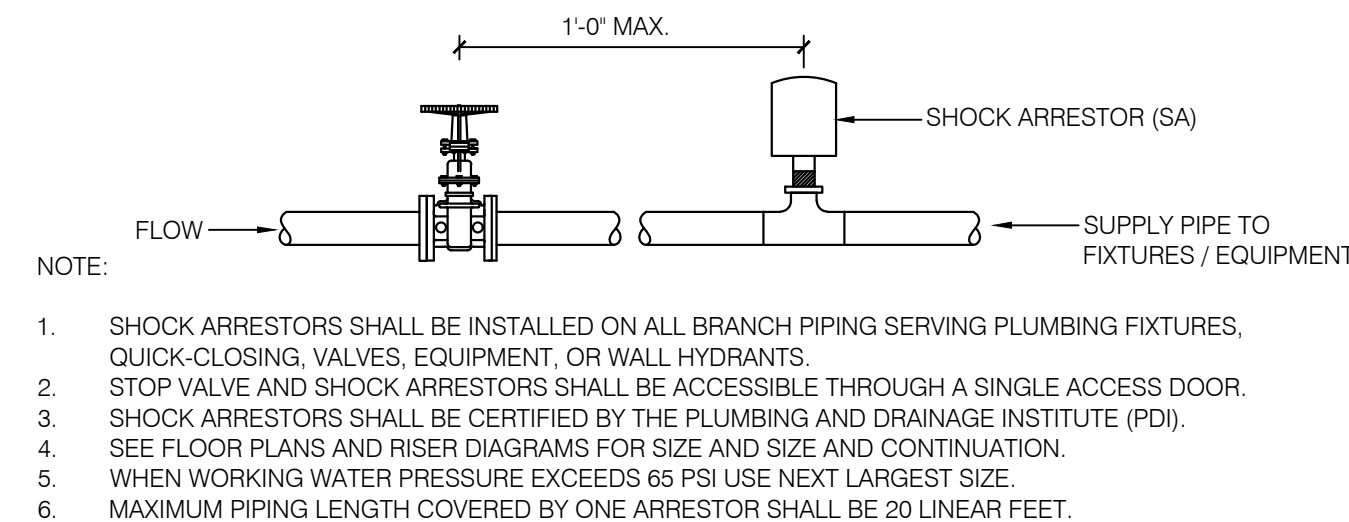
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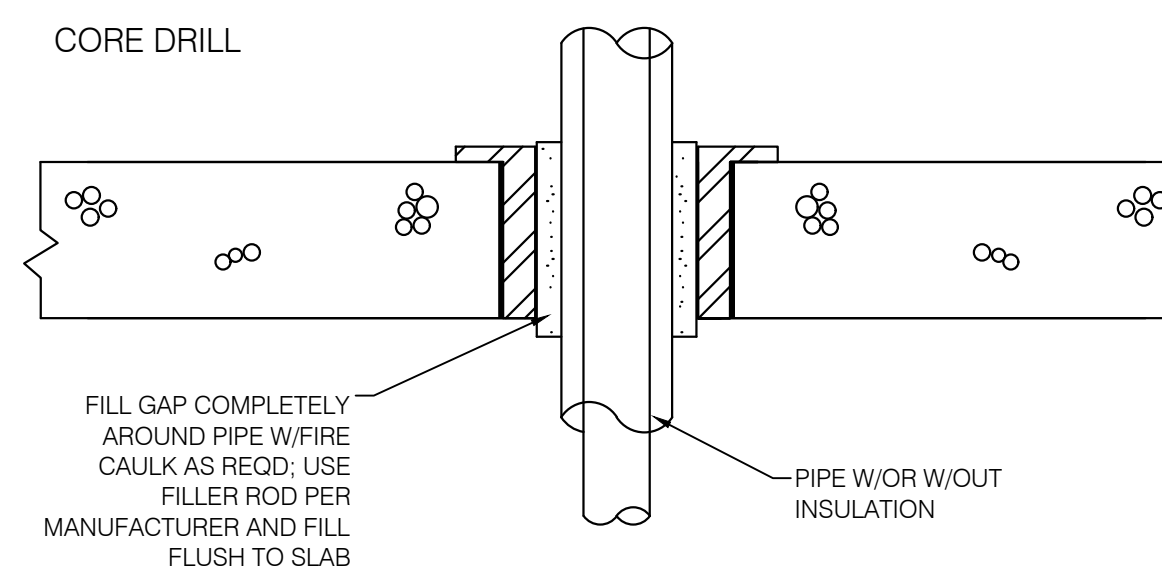


4 POINT OF USE MIXING VALVE DETAIL
SCALE: NOT TO SCALE



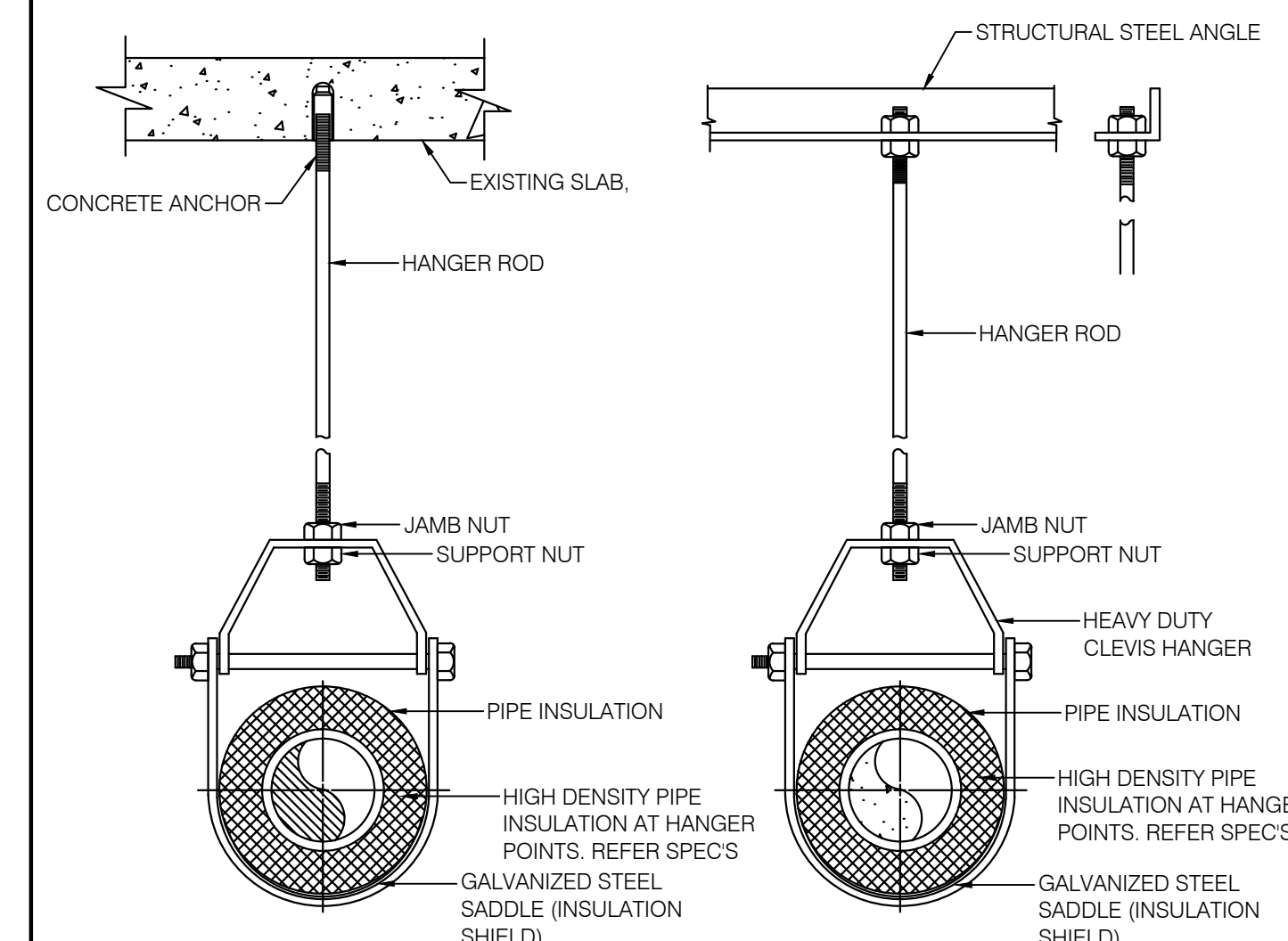
WATER HAMMER ARRESTOR SIZE SCHEDULE		
SIZE OF PIPE	FIXTURE UNITS	HAMMER ARRESTOR SIZE (PDI REFERENCE)
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1 1/4"	61-113	D
1 1/2"	114-154	E
2"	155-330	F

3 SHOCK ARRESTOR DETAIL
SCALE: NOT TO SCALE

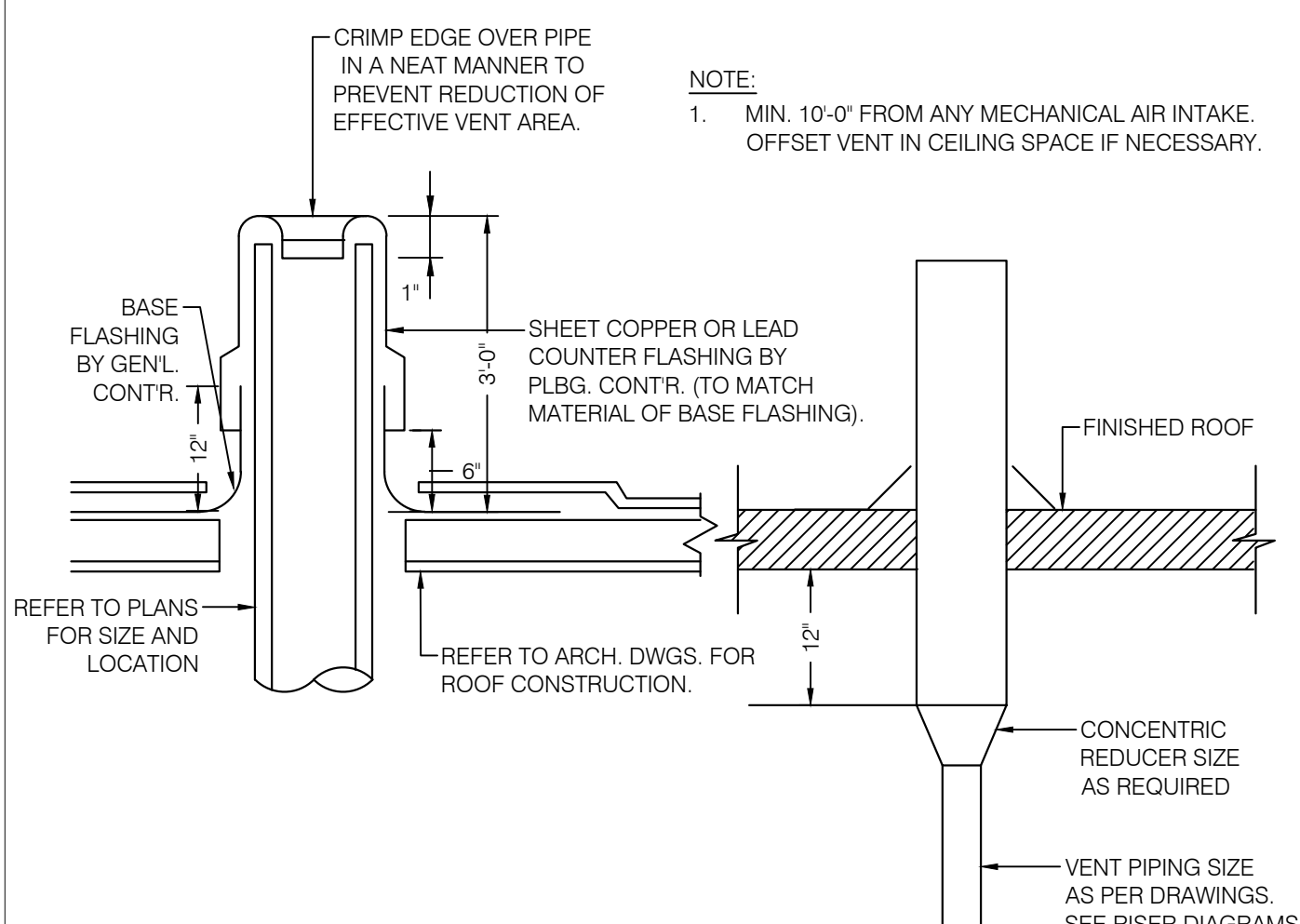


NOTE: ALL PIPING SLEEVES WILL BE SCHEDULE 40 STEEL PIPE

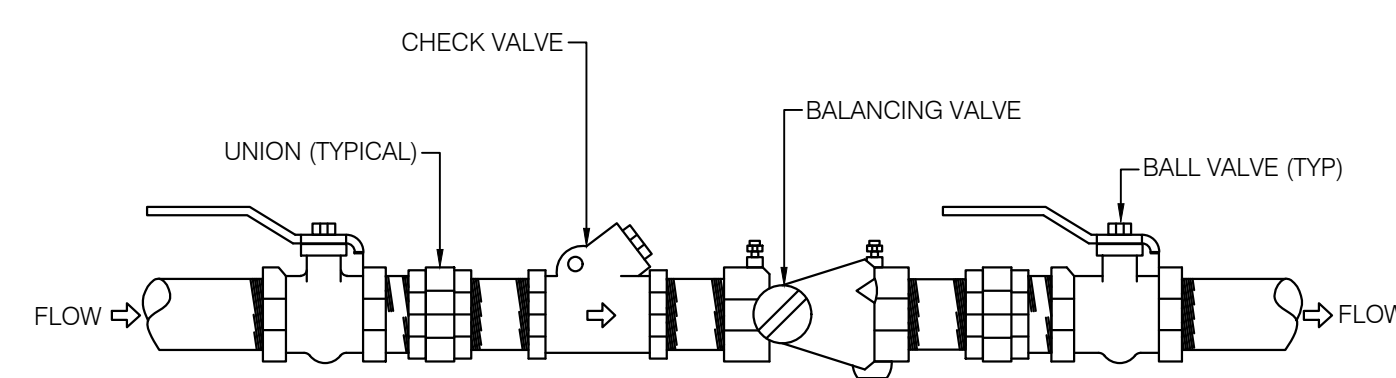
2 PIPE PENETRATION THROUGH CONCRETE
SCALE: NOT TO SCALE



1 PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE

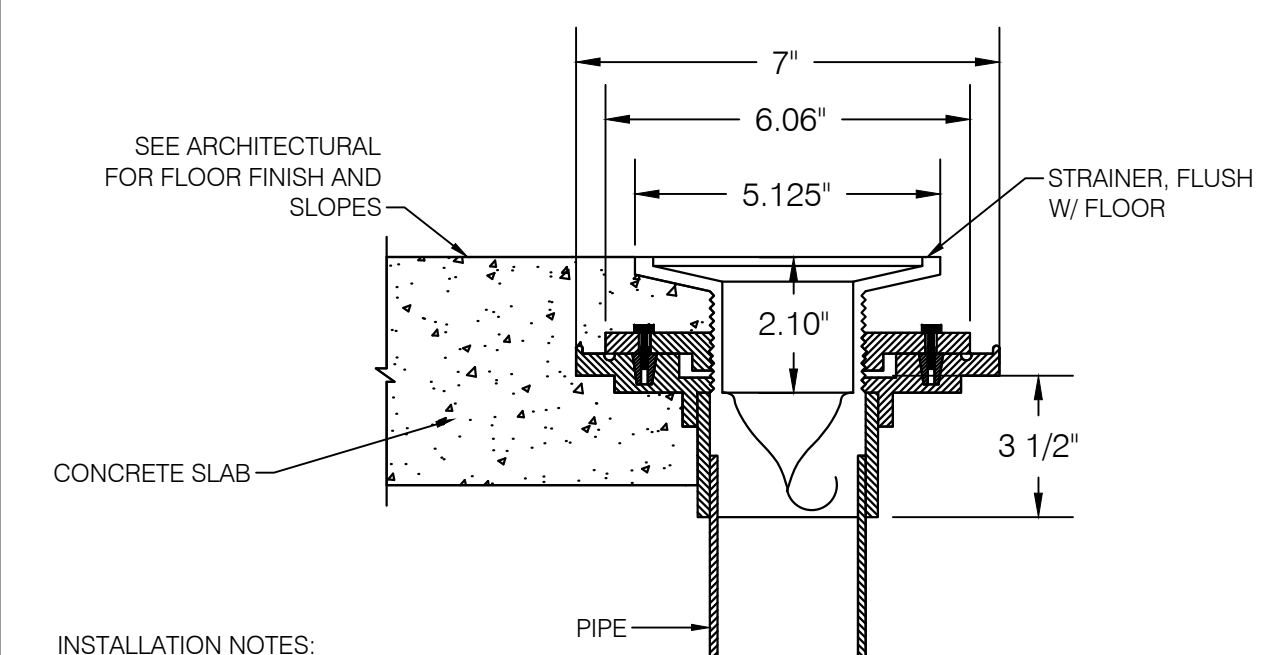


8 PLUMBING VENT THROUGH ROOF DETAIL
SCALE: NOT TO SCALE



NOTES:
1. ALL THREADED PIPING BETWEEN UNIONS SHALL BE BRASS.
2. INSTALL DIE-ELECTRIC UNIONS FOR PIPING CONNECTIONS OF DISSIMILAR METALS.
3. CONTRACTOR SHALL BALANCE THE HWR SYSTEM TO ACHIEVE SUFFICIENT FLOW THROUGH THE SYSTEM TO MAINTAIN DESIRED TEMPERATURE OF 120° F AT REMOTE FIXTURE.

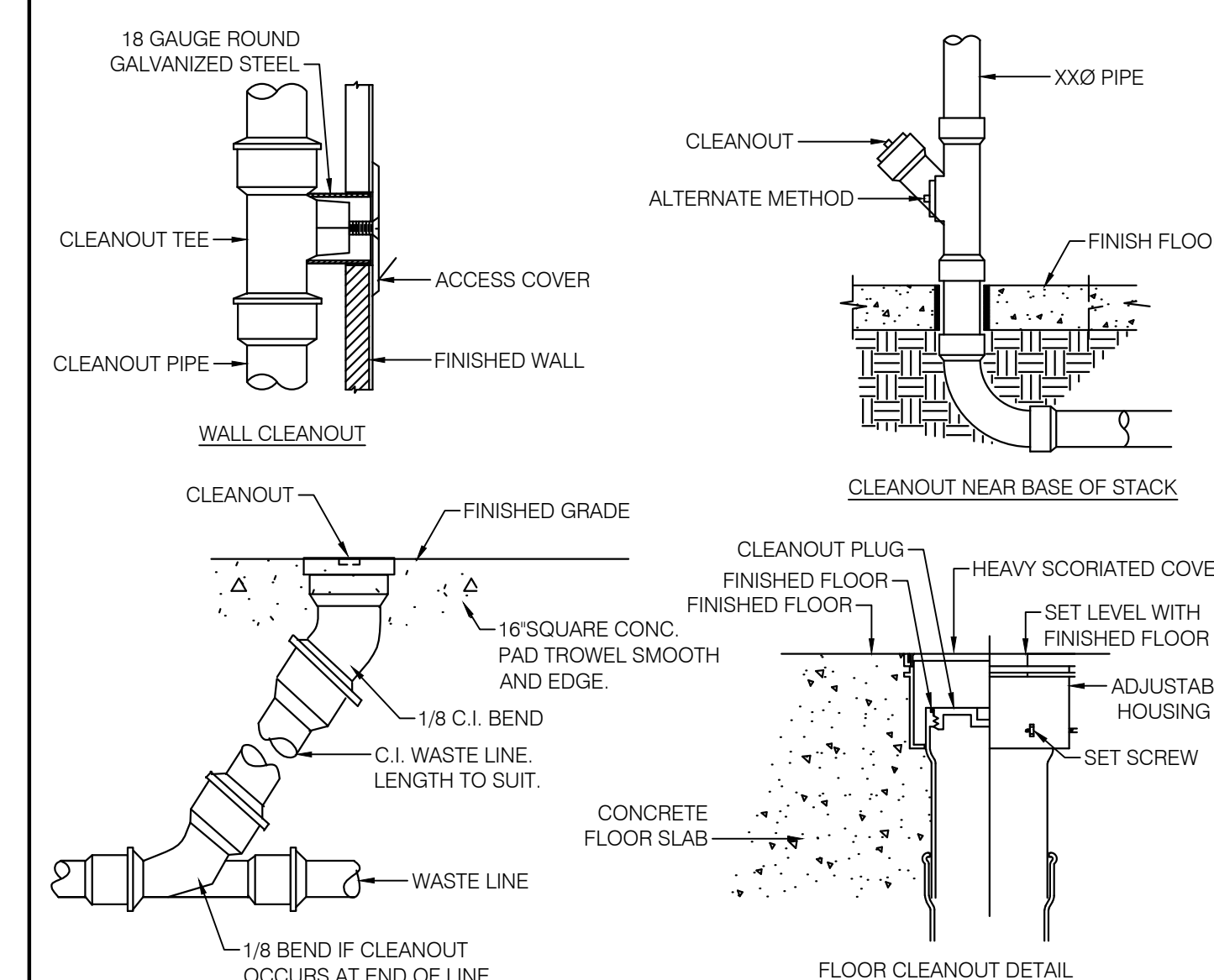
7 DOMESTIC HOT WATER RETURN BALANCING ASSEMBLY
SCALE: NOT TO SCALE



INSTALLATION NOTES:
1. THE TRAP GUARD DEVICE IS AN INTEGRAL PART OF THE PRESET FLOOR DRAIN AND COMES AS A COMPLETE UNIT.
2. THE INSTALLATION IS IDENTICAL TO ANY TYPICAL FLOOR DRAIN ASSEMBLY CONNECTING TO PLASTIC OR C.L. PIPE.
3. THE DRAIN COMES WITH A PROTECTIVE PLASTIC STRAINER COVER AND A HEAVY PLUG UNDERNEATH THE STRAINER TOP.
4. AFTER THE CONCRETE POUR, THE PLASTIC STRAINER COVER SHOULD BE REMOVED. A FACTORY INSTALLED ELASTOMERIC PLUG PROTECTS THE TRAP GUARD DEVICE DURING CONSTRUCTION AND CAN BE USED AS A TEST PLUG AND MUST BE REMOVED BEFORE NORMAL DRAIN USAGE. IF THE TRAP GUARD DEVICE SHOULD GET DAMAGED OR IMPAIRED IN ANY WAY, THE DEVICE CAN BE EASILY REMOVED. A PULLER TOOL ATTACHES TO THE TWO BUILT-IN LUGS INSIDE OF THE TRAP GUARD FOR EASY REMOVAL & REPLACEMENT. NOT TO BE USED ON WAXED OR GREASE-LANDEN FLOORS.

NOTE: CARE SHOULD BE TAKEN NOT TO TOUCH THE FLEXIBLE MATERIAL WITH PRIMER OR SOLVENT CEMENT.

6 TRAP GUARD FLOOR DRAIN DETAIL
SCALE: NOT TO SCALE

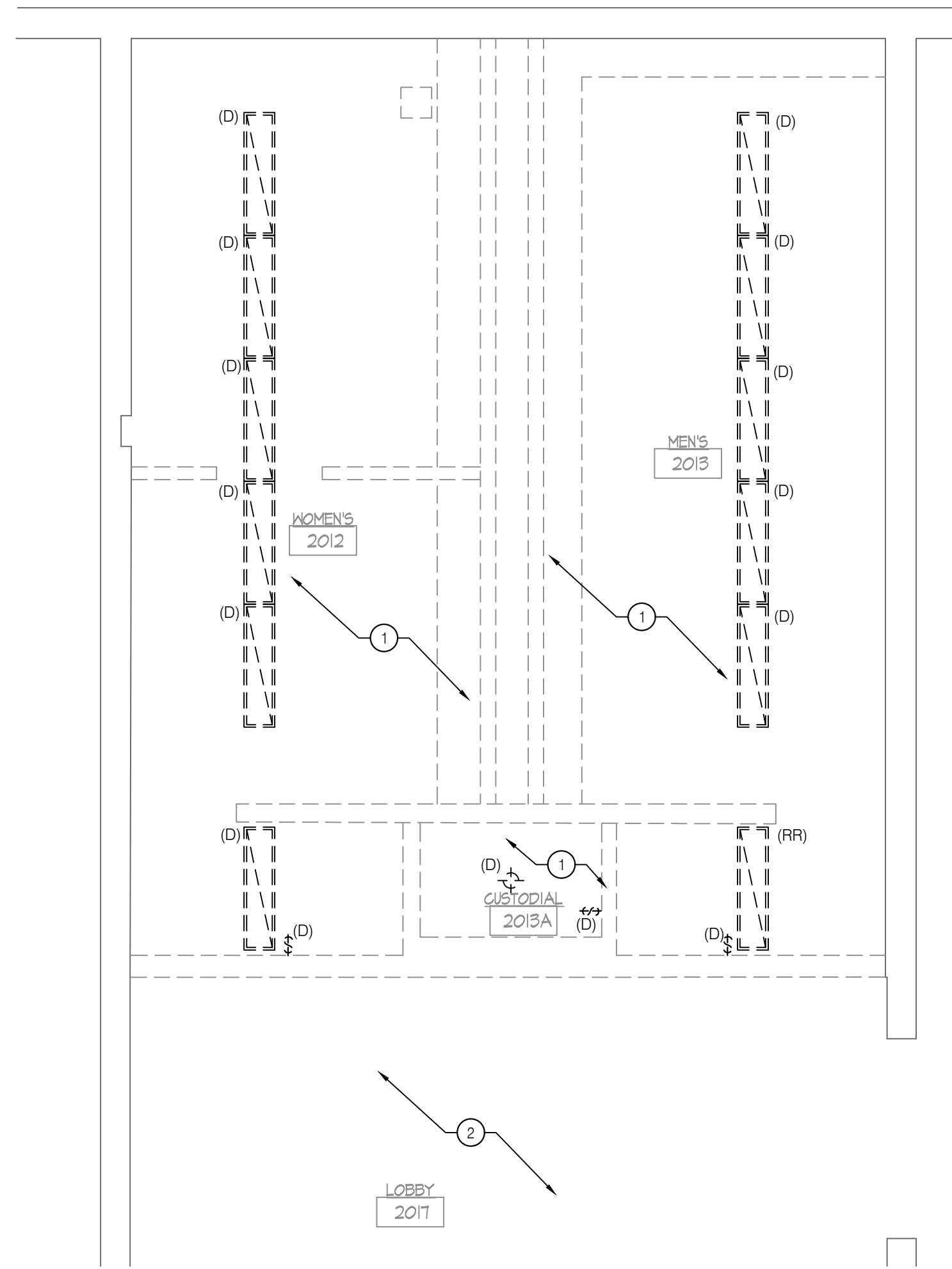


5 CLEANOUT DETAILS
SCALE: NOT TO SCALE

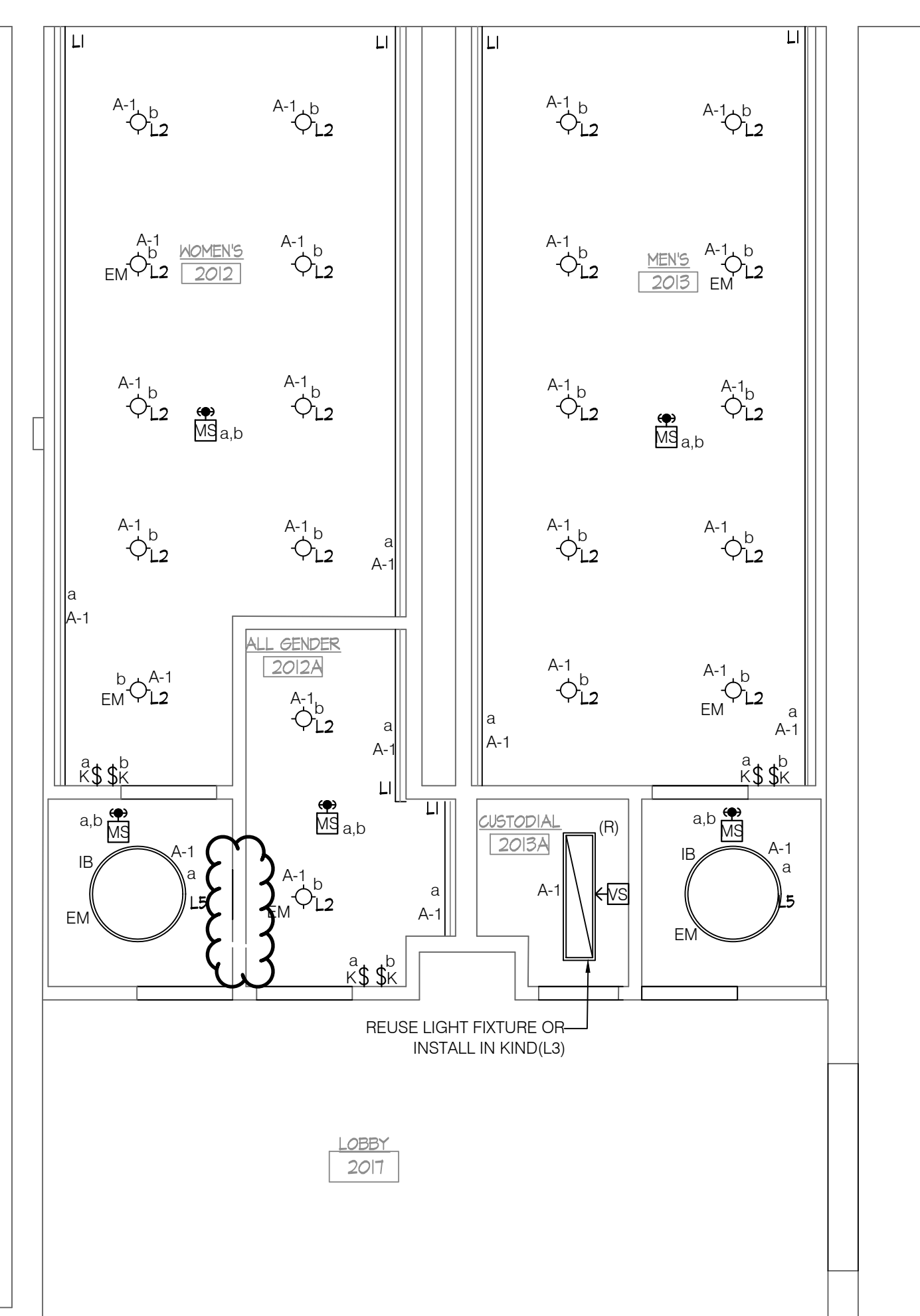
Title PLUMBING SCHEDULES AND DETAILS

Date: 06-15-2023
Project No.: 1944
Drawing By: CHS
CHK By: EB
Scale: AS NOTED

P-601.00
DOB Rev



4 FIRST FLOOR PLAN - ELECTRICAL LIGHTING REMOVALS
 E-101.00 SCALE: 1/4" = 1'-0"



3 FIRST FLOOR PLAN - ELECTRICAL LIGHTING
 E-101.00 SCALE: 1/4" = 1'-0"

- ### GENERAL NOTES
- REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
 - UNLESS OTHERWISE NOTED, DEMOLISH ALL EXISTING ELECTRICAL AND FIRE ALARM DEVICES AND EQUIPMENT SHOWN OR NOT SHOWN ON PLANS AT DEMOLISHED WALL, CEILING AND FLOOR SECTIONS THROUGHOUT THE AREA OF WORK. ABANDON CONCEALED EXISTING CONDUITS INSTALLED IN CONCRETE WALLS OR SLABS.
 - FOR ALL DEMOLISHED EQUIPMENT AND DEVICES, REMOVE ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OF SUPPLY.
 - REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS, DEVICES AND FIRE ALARM DEVICE INSTALLATION LOCATIONS.
 - COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
 - THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT, EXISTING FIRE ALARM INITIATING DEVICE, NOTIFICATION APPLIANCE, SIGNALING LINE CIRCUITS AND FIXTURES TO REMAIN SHALL BE MAINTAINED.
 - ALL NEW OUTLETS, DEVICES AND FIRE ALARM DEVICES MUST BE FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MOUNTED OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
 - ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
 - ALL NEW FIRE ALARM DEVICES MUST BE COMPATIBLE WITH AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, ZONED BY FLOOR. EXTEND EXISTING WIRING AND CONDUIT FOR RELOCATED DEVICES TO NEW LOCATIONS AS REQUIRED.
 - WHERE MORE THAN TWO VISUAL (STROBE) NOTIFICATION APPLIANCES ARE IN THE FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION. PROVIDE EXTERNAL SYNC MODULE OR SYNC PROTOCOL BUILT IN TO THE FIRE ALARM CONTROL PANEL.
 - LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
 - AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
 - ALL EMERGENCY LIGHTS AND EXIT SIGNS TO BE PROVIDED WITH INTEGRAL OR REMOTE EMERGENCY BATTERY PACK.
 - CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION. ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
 - UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS, DEVICES, FIRE ALARM DEVICES, LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN. DEVICES SHOWN WITH A SUBSCRIPT "D" AND DASHED LINE INDICATE EXISTING EQUIPMENT TO DEMOLISHED.

RESTROOM RENOVATION PURCHASE COLLEGE

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CAMPUS CENTER SOUTH BUILDING
PHYSICAL EDUCATION BUILDING
MAIN DINING HALL

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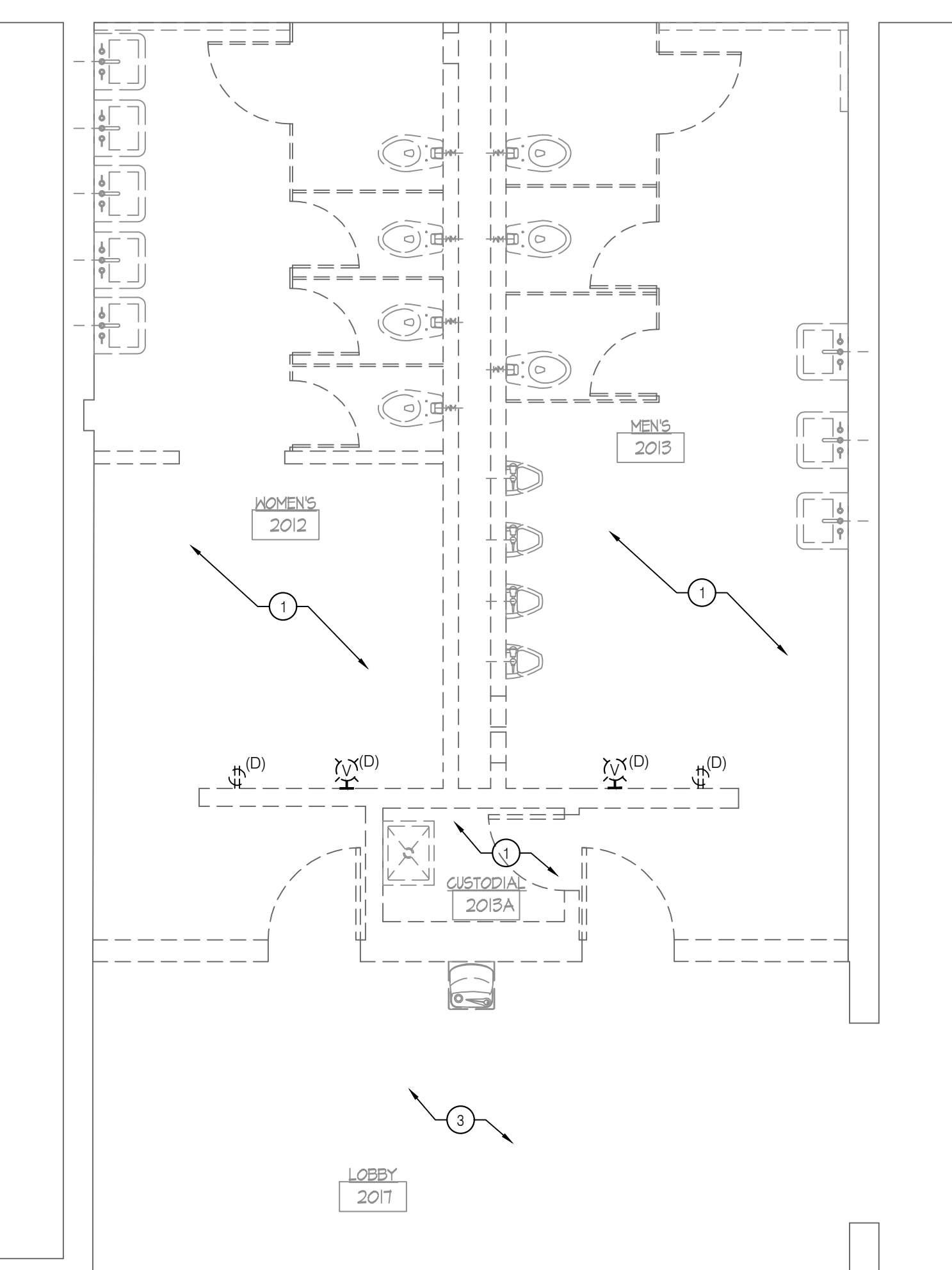
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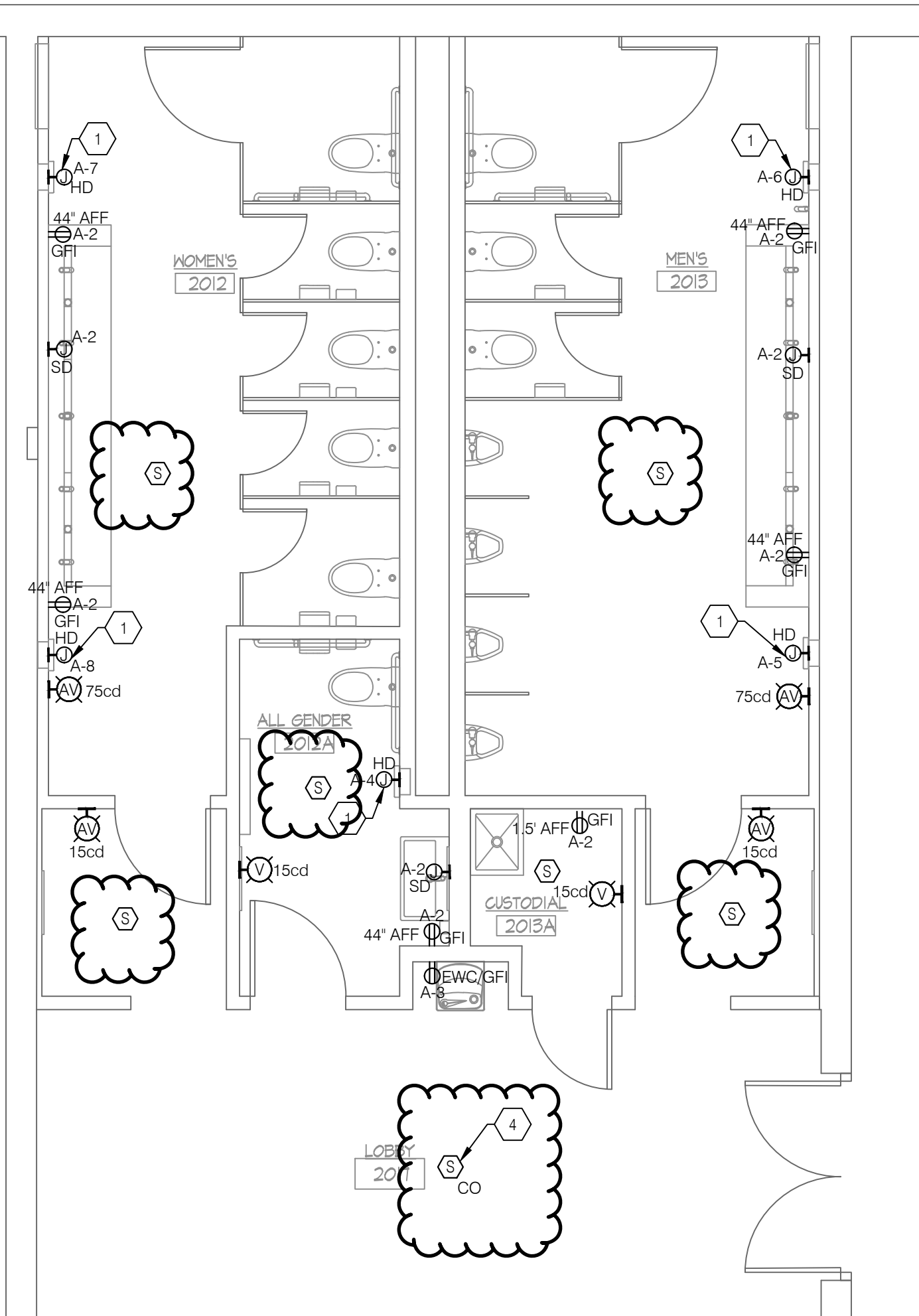
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MEP Engineer

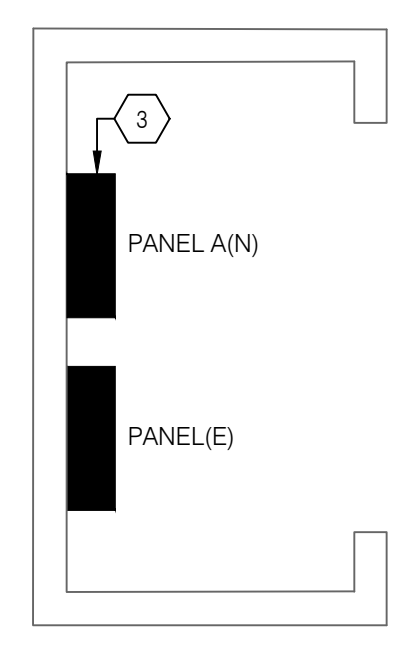
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2 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM
 E-101.00 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM
 E-101.00 SCALE: 1/4" = 1'-0"

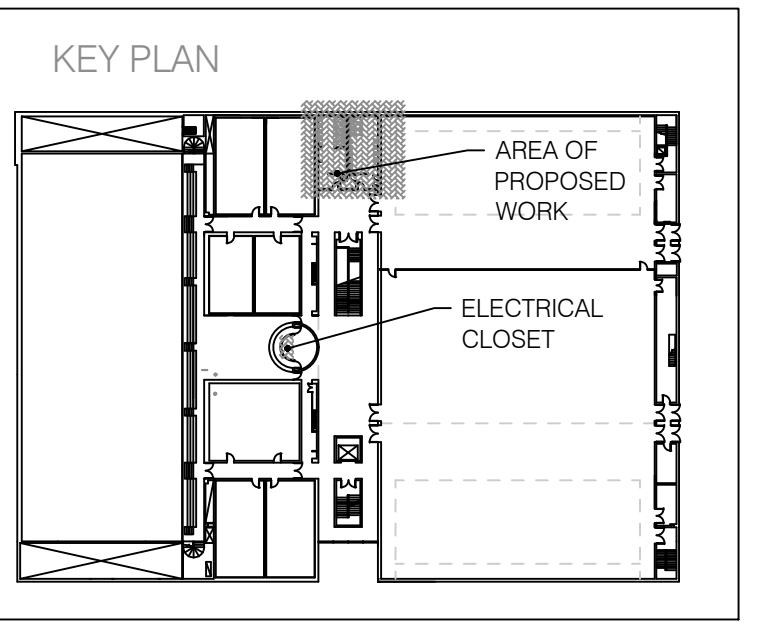


5 ENLARGED PLAN - ELECTRICAL CLOSET
 E-101.00 SCALE: 1/2" = 1'-0"

- ### DEMOLITION KEY NOTES
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES, CONDUITS, WIRING/BOXES, LIGHTING FIXTURE, SWITCHING SCHEME INCLUDING ALL TELEPHONE/DATA, RECEPTACLES (WALL/CEILING/FLOOR) SERVING THIS AREA ARE TO BE DEMOLISHED. MAINTAIN EXISTING CIRCUIT WIRING FROM LIGHTING FIXTURES FOR REUSE. ALL OTHER WIRING DEVICES, CONDUIT, AND FEEDERS SHALL BE REMOVED BACK TO SOURCE.
 - UNLESS OTHERWISE NOTED, ALL EXISTING LIGHT FIXTURES AND CONTROLS IN THIS AREA ARE EXISTING TO REMAIN.
 - UNLESS OTHERWISE NOTED, ALL EXISTING ELECTRICAL AND FIRE ALARM DEVICES IN THIS AREA ARE EXISTING TO REMAIN.

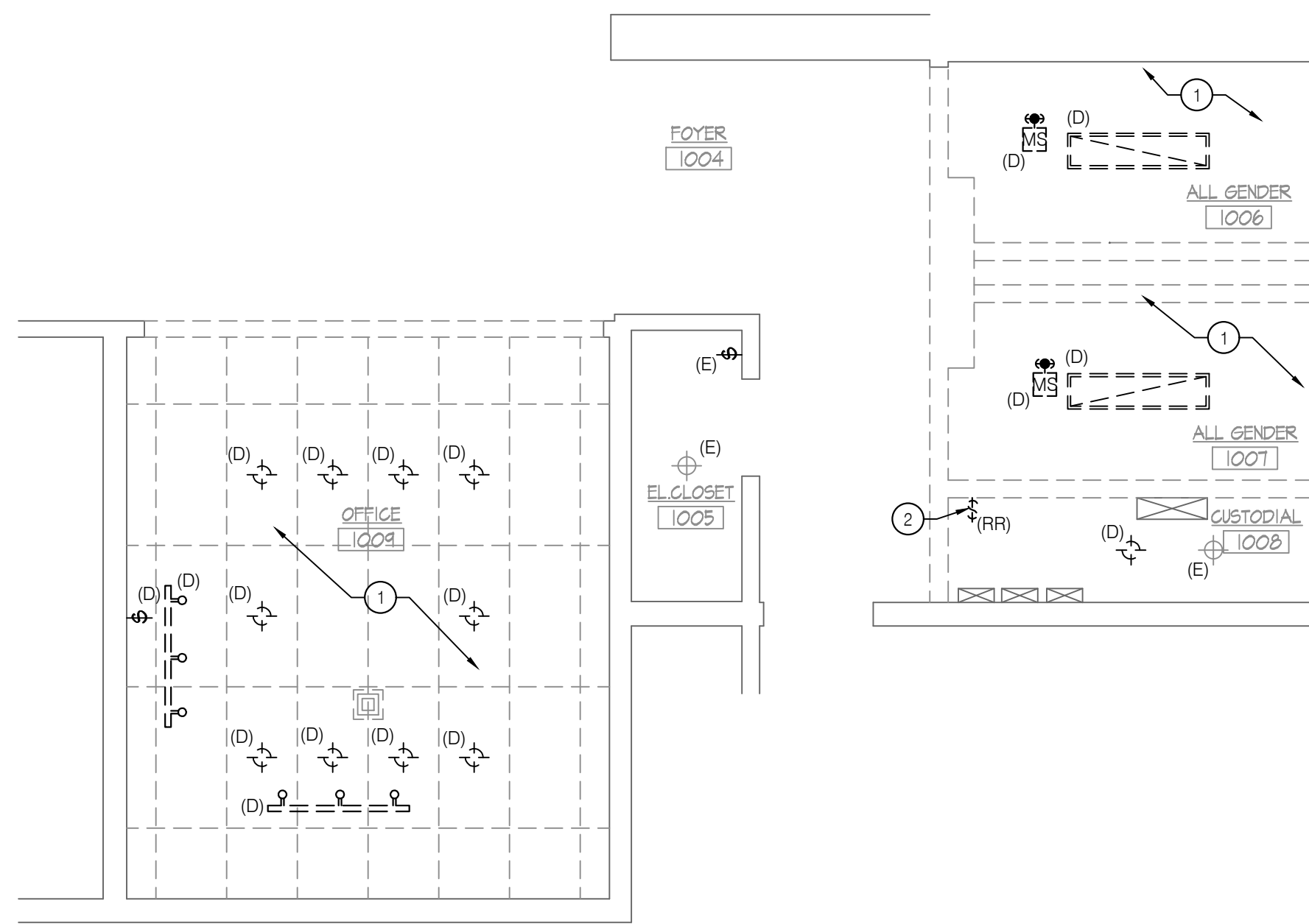
- ### SHEET KEY NOTES
- PROVIDE AUTOMATIC THERMAL-OVERLOAD SWITCH FOR DISCONNECTING MEANS.
 - NOT USED.
 - NEW 200 AMP SERVICE PANEL TO BE INSTALLED IN LOBBY FROM EXISTING PANEL BY LOCKER/CLASS ROOM. CONTRACTOR TO VERIFY ALL WIRING TO BE MAINTAINED.
 - CO DETECTORS SHALL HAVE BUILT IN SOUNDER BASES SHALL BE INSTALLED IN ACCORDANCE WITH BC 908.7.2.

Rev	Date	Issue
	27 Feb 2023	Issue for Bid
	6/16/2023	PHASE 3 ADDENDUM #1

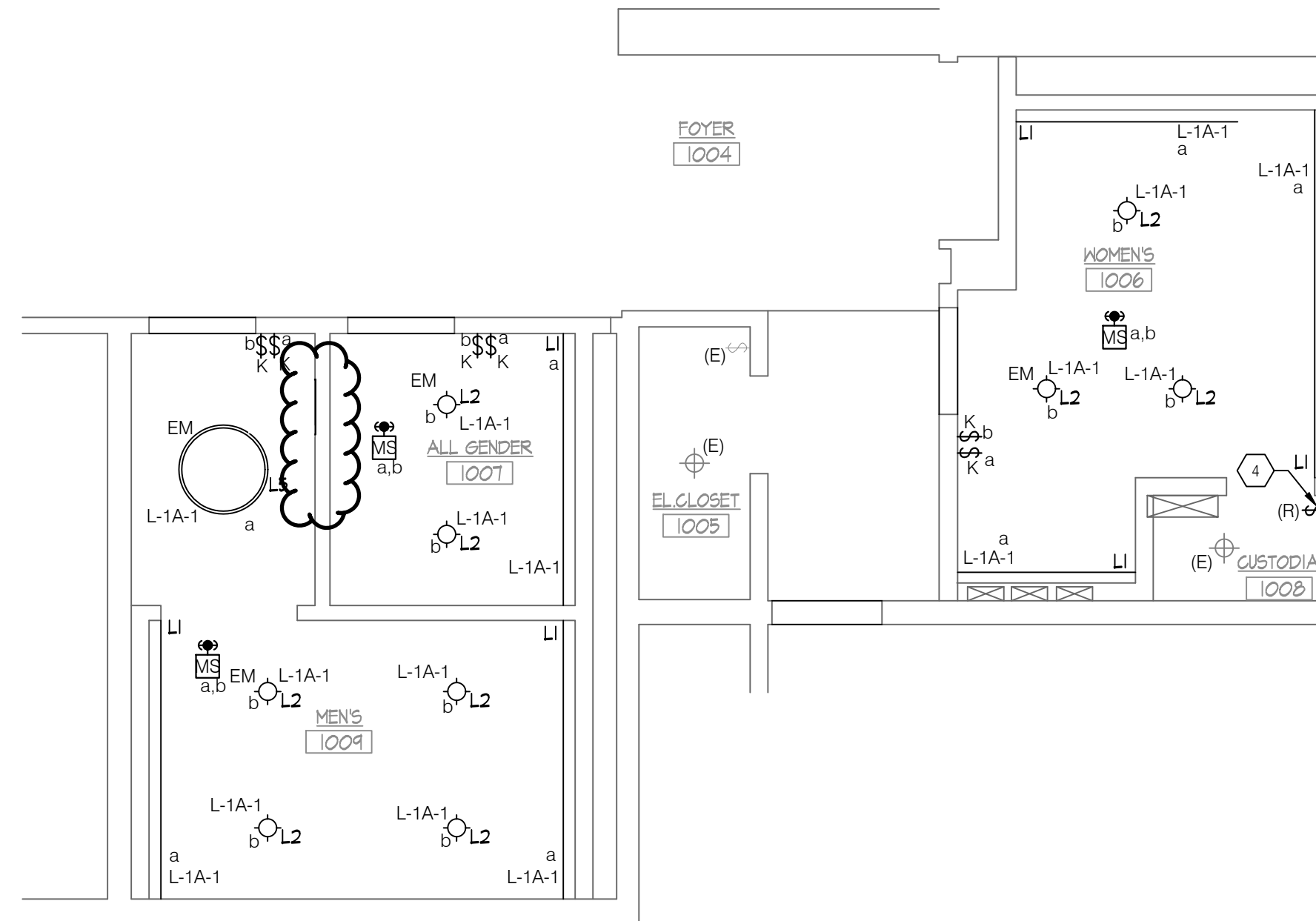


PHYSICAL EDUCATION - ELECTRICAL PLANS

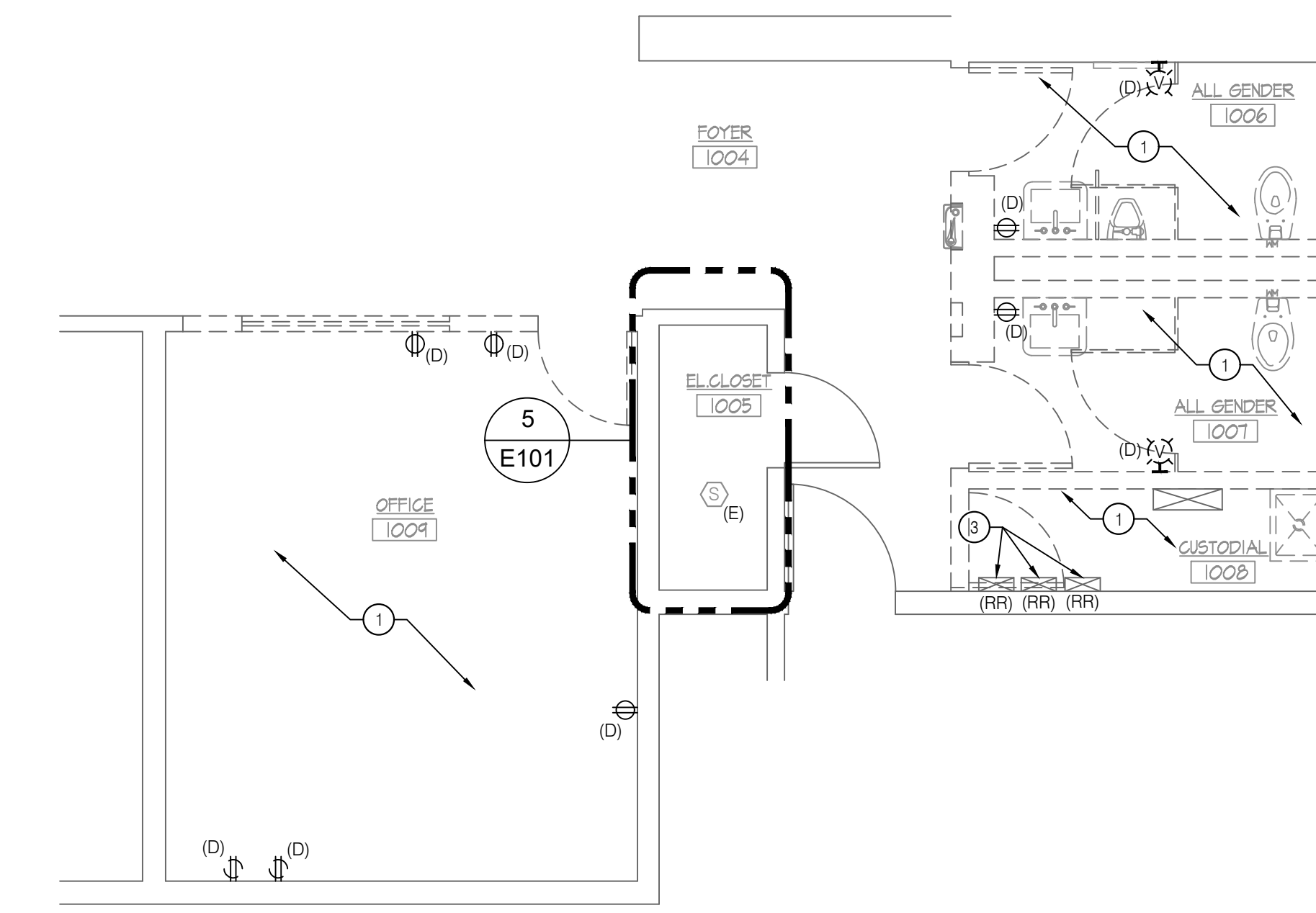
Title	Date
PHYSICAL EDUCATION - ELECTRICAL PLANS	06-15-2023
	Project No. 1944
	Drawing By LJ
	CHK By SM
	Scale AS NOTED
	DOB Rev
	E-101.00



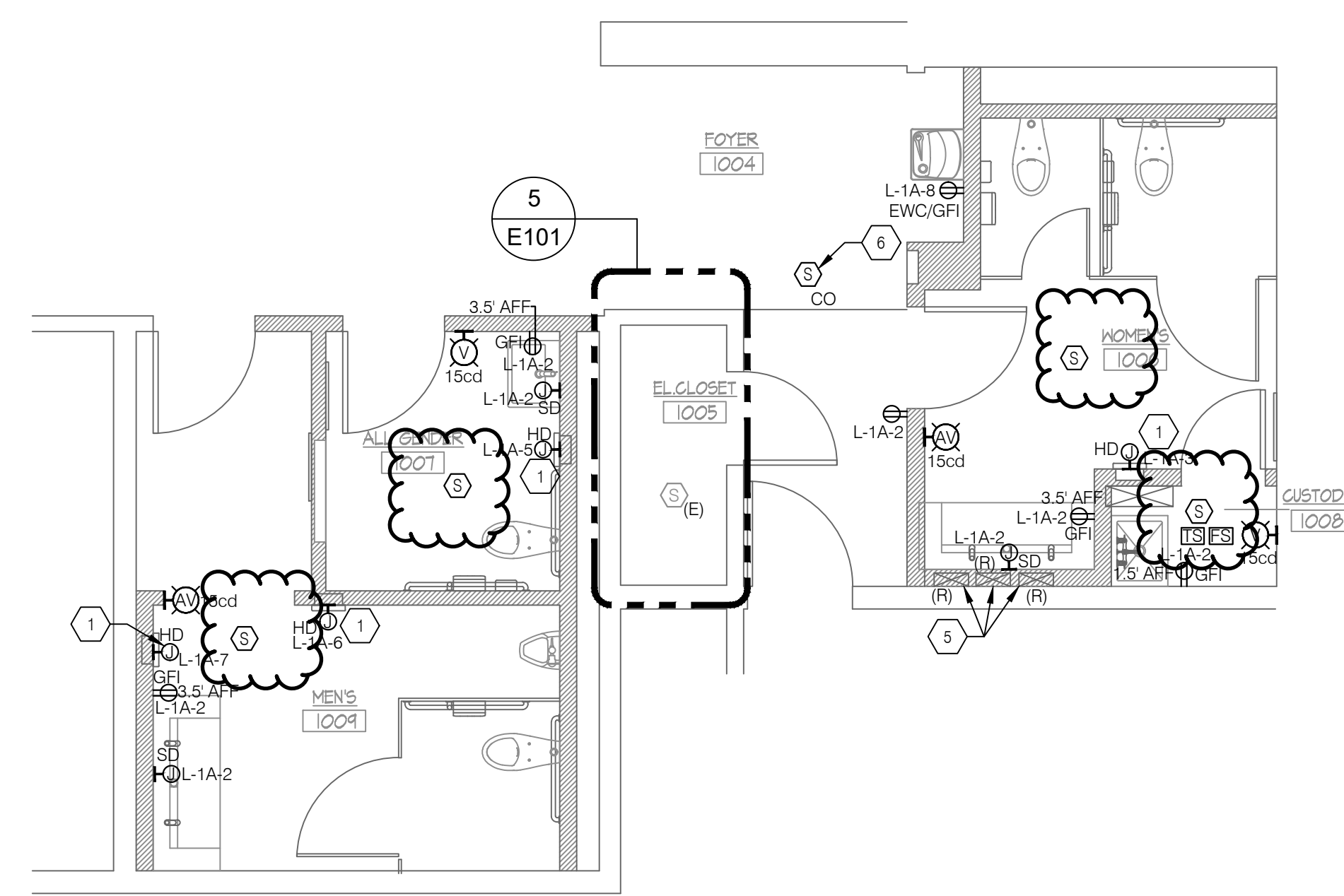
4 FIRST FLOOR PLAN - ELECTRICAL LIGHTING REMOVALS
E-102.00 SCALE: 1/4" = 1'-0"



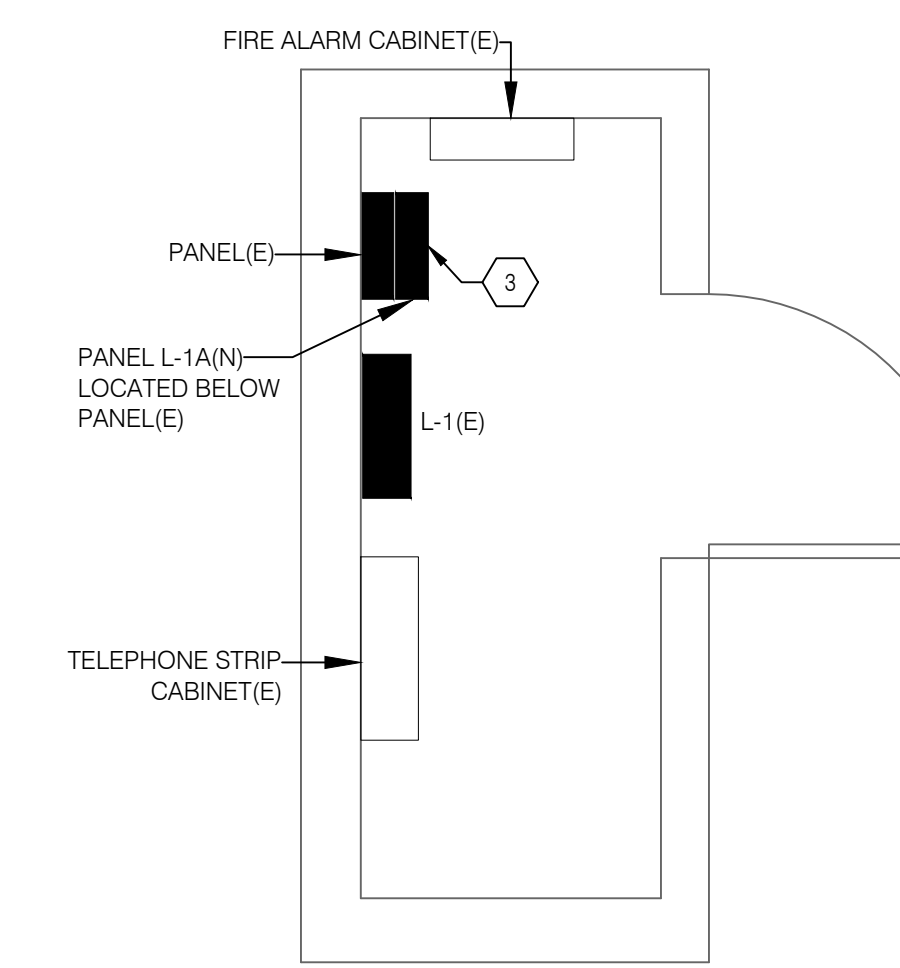
3 FIRST FLOOR PLAN - ELECTRICAL LIGHTING
E-102.00 SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM REMOVALS
E-102.00 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM
E-102.00 SCALE: 1/4" = 1'-0"



5 ENLARGED PLAN - ELEC CLOSET 1005
E-102.00 SCALE: 1/2" = 1'-0"

GENERAL NOTES

- REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- UNLESS OTHERWISE NOTED, DEMOLISH ALL EXISTING ELECTRICAL AND FIRE ALARM DEVICES AND EQUIPMENT SHOWN OR NOT SHOWN ON PLANS AT DEMOLISHED WALL, CEILING AND FLOOR SECTIONS THROUGHOUT THE AREA OF WORK. ABANDON CONCEALED EXISTING CONDUITS INSTALLED IN CONCRETE WALLS OR SLABS.
- FOR ALL DEMOLISHED EQUIPMENT AND DEVICES, REMOVE ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OF SUPPLY.
- REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS, DEVICES AND FIRE ALARM DEVICE INSTALLATION LOCATIONS.
- COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
- THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT, EXISTING FIRE ALARM INITIATING DEVICE, NOTIFICATION APPLIANCE, SIGNALING LINE CIRCUITS AND FIXTURES TO REMAIN SHALL BE MAINTAINED.
- ALL NEW OUTLETS, DEVICES AND FIRE ALARM DEVICES MUST BE FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MOUNTED OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
- ALL NEW FIRE ALARM DEVICES MUST BE COMPATIBLE WITH AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, ZONED BY FLOOR. EXTEND EXISTING WIRING AND CONDUIT FOR RELOCATED DEVICES TO NEW LOCATIONS AS REQUIRED.
- WHERE MORE THAN TWO VISUAL (STROBE) NOTIFICATION APPLIANCES ARE IN THE FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION. PROVIDE EXTERNAL SYNC MODULE OR SYNC PROTOCOL BUILT IN TO THE FIRE ALARM CONTROL PANEL.
- LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
- AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
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DEMOLITION KEY NOTES

- UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES, CONDUITS, WIRING BOXES, LIGHTING FIXTURE, SWITCHING SCHEME INCLUDING ALL TELEPHONE/DATA, RECEPTACLES (WALL/CEILING/FLOOR) SERVING THIS AREA ARE TO BE DEMOLISHED, MAINTAIN EXISTING CIRCUIT WIRING FROM LIGHTING FIXTURES FOR REUSE. ALL OTHER WIRING DEVICES, CONDUIT, AND FEEDERS SHALL BE REMOVED BACK TO SOURCE.
- REMOVE AND RELOCATE EXISTING LIGHT SWITCH, INTERCEPT EXISTING CONTROL WIRING AT CONVENIENT LOCATION AND EXTEND TO NEW LOCATION. REFER NEW WORK FOR MORE INFORMATION.
- REMOVE AND RELOCATE EXISTING FIRE ALARM JUNCTION BOXES TO ABOVE CEILING, INTERCEPT EXISTING WIRING AT CONVENIENT LOCATION AND EXTEND TO NEW LOCATION. REFER NEW WORK FOR MORE INFORMATION.

SHEET KEY NOTES

- PROVIDE AUTOMATIC THERMAL-OVERLOAD SWITCH FOR
- NOT USED.
- NEW 120/208V, 10, 3WIRE PANEL L-1A FED VIA 60A, 2 POLE BREAKER FROM EXISTING PANEL "L-1". CONTRACTOR TO RUN 3#4 AWG + 1#8 AWG G IN 1" C.
- RELOCATED LIGHT SWITCH, EXTEND WIRING TO NEW LOCATION VIA JUNCTION BOX.
- RELOCATED FIRE ALARM JUNCTION BOXES TO ABOVE CEILING, INTERCEPT AND EXTEND ASSOCIATED WIRING VIA JUNCTION BOX.
- CO DETECTORS SHALL HAVE BUILT IN SOUNDER BASES SHALL BE INSTALLED IN ACCORDANCE WITH BC 908.7.2.

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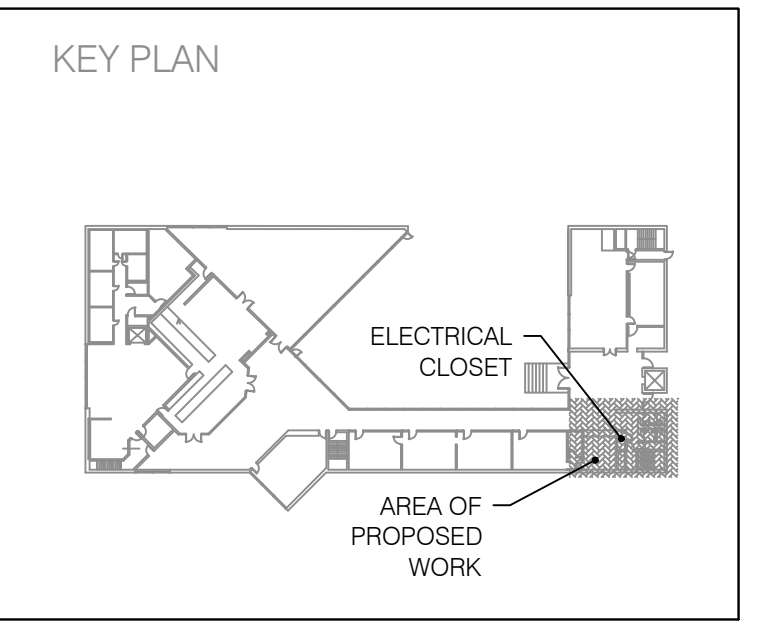
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PHASE 3: CAMPUS CENTER NORTH BUILDING CAMPUS CENTER SOUTH BUILDING PHYSICAL EDUCATION BUILDING MAIN DINING HALL

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Rev	Date	Issue
	27 Feb 2023	Issue for Bid
	6/16/2023	PHASE 3 ADDENDUM #1



Title CAMPUS CENTER NORTH - ELECTRICAL PLANS

Date	06-15-2023
Project No.	1944
Drawing By	LJ
CHK By	SM
Scale	AS NOTED
	DOB Rev
E-102.00	

- ### GENERAL NOTES
- REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
 - UNLESS OTHERWISE NOTED, DEMOLISH ALL EXISTING ELECTRICAL AND FIRE ALARM DEVICES AND EQUIPMENT SHOWN OR NOT SHOWN ON PLANS AT DEMOLISHED WALL, CEILING AND FLOOR SECTIONS THROUGHOUT THE AREA OF WORK. ABANDON CONCEALED EXISTING CONDUITS INSTALLED IN CONCRETE WALLS OR SLABS.
 - FOR ALL DEMOLISHED EQUIPMENT AND DEVICES, REMOVE ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OF SUPPLY.
 - REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS, DEVICES AND FIRE ALARM DEVICE INSTALLATION LOCATIONS.
 - COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
 - THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT, EXISTING FIRE ALARM INITIATING DEVICE, NOTIFICATION APPLIANCE, SIGNALING LINE CIRCUITS AND FIXTURES TO REMAIN SHALL BE MAINTAINED.
 - ALL NEW OUTLETS, DEVICES AND FIRE ALARM DEVICES MUST BE FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MOUNTED OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
 - ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
 - ALL NEW FIRE ALARM DEVICES MUST BE COMPATIBLE WITH AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, ZONED BY FLOOR. EXTEND EXISTING WIRING AND CONDUIT FOR RELOCATED DEVICES TO NEW LOCATIONS AS REQUIRED.
 - WHERE MORE THAN TWO VISUAL (STROBE) NOTIFICATION APPLIANCES ARE IN THE FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION. PROVIDE EXTERNAL SYNC MODULE OR SYNC PROTOCOL BUILT IN TO THE FIRE ALARM CONTROL PANEL.
 - LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
 - AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
 - CONNECT ALL EMERGENCY LIGHTS TO THE DESIGNATED EMERGENCY PANEL WITH 2 #10 AWG + 1 #10 G IN 3/4" C.
 - CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION. ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
 - UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS, DEVICES, FIRE ALARM DEVICES, LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN. DEVICES SHOWN WITH A SUBSCRIPT "D" AND DASHED LINE INDICATE EXISTING EQUIPMENT TO DEMOLISHED.

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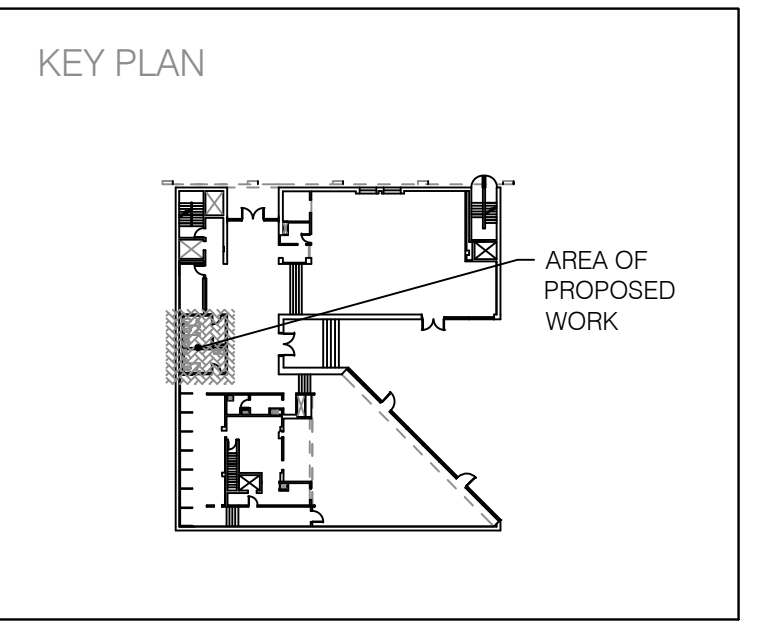
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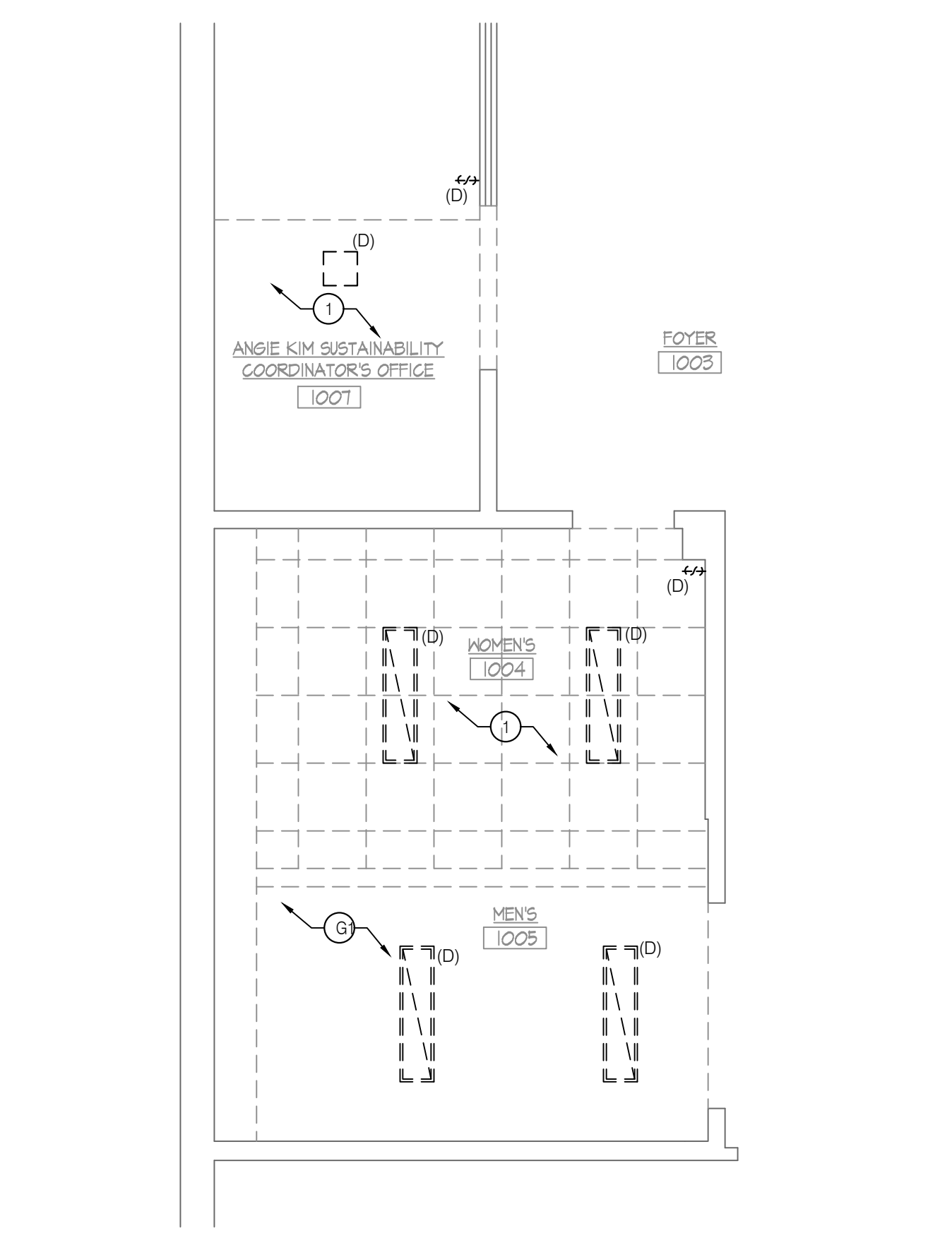
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Rev	Date	Issue
	27 Feb 2023	Issue for Bid
	6/16/2023	PHASE 3 ADDENDUM #1

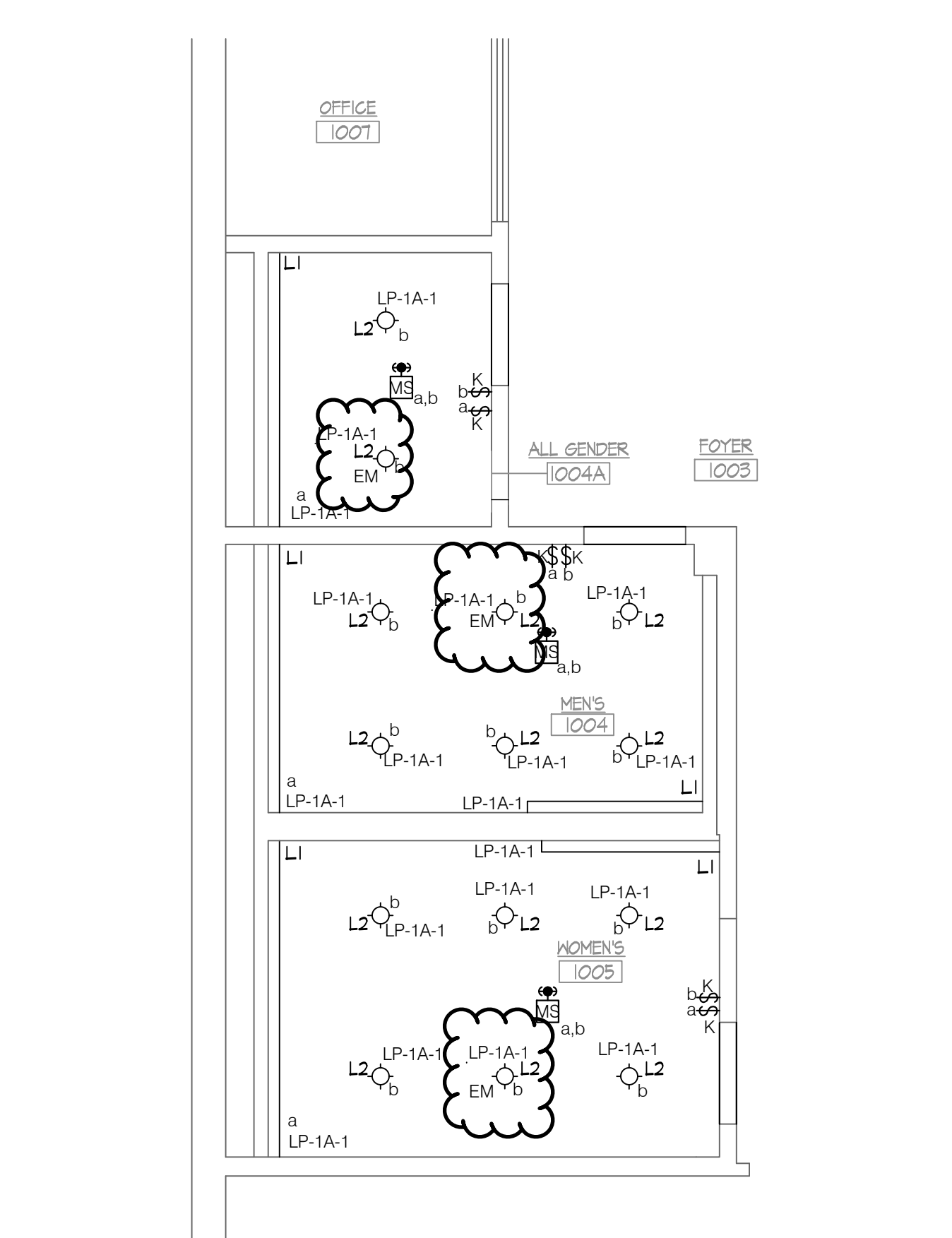


Title
**CAMPUS CENTER SOUTH -
ELECTRICAL PLANS**

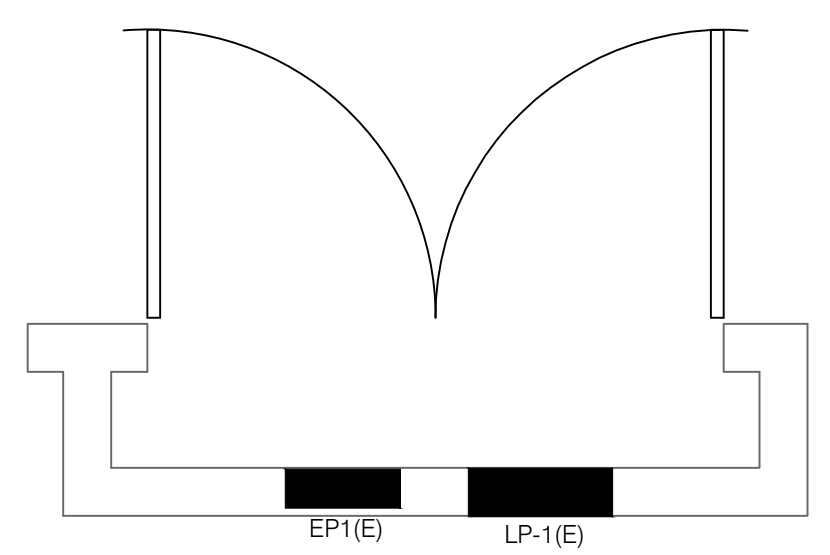
Date	06-15-2023
Project No.	1944
Drawing By	LJ
CHK By	SM
Scale	AS NOTED
	DOB Rev
E-103.00	



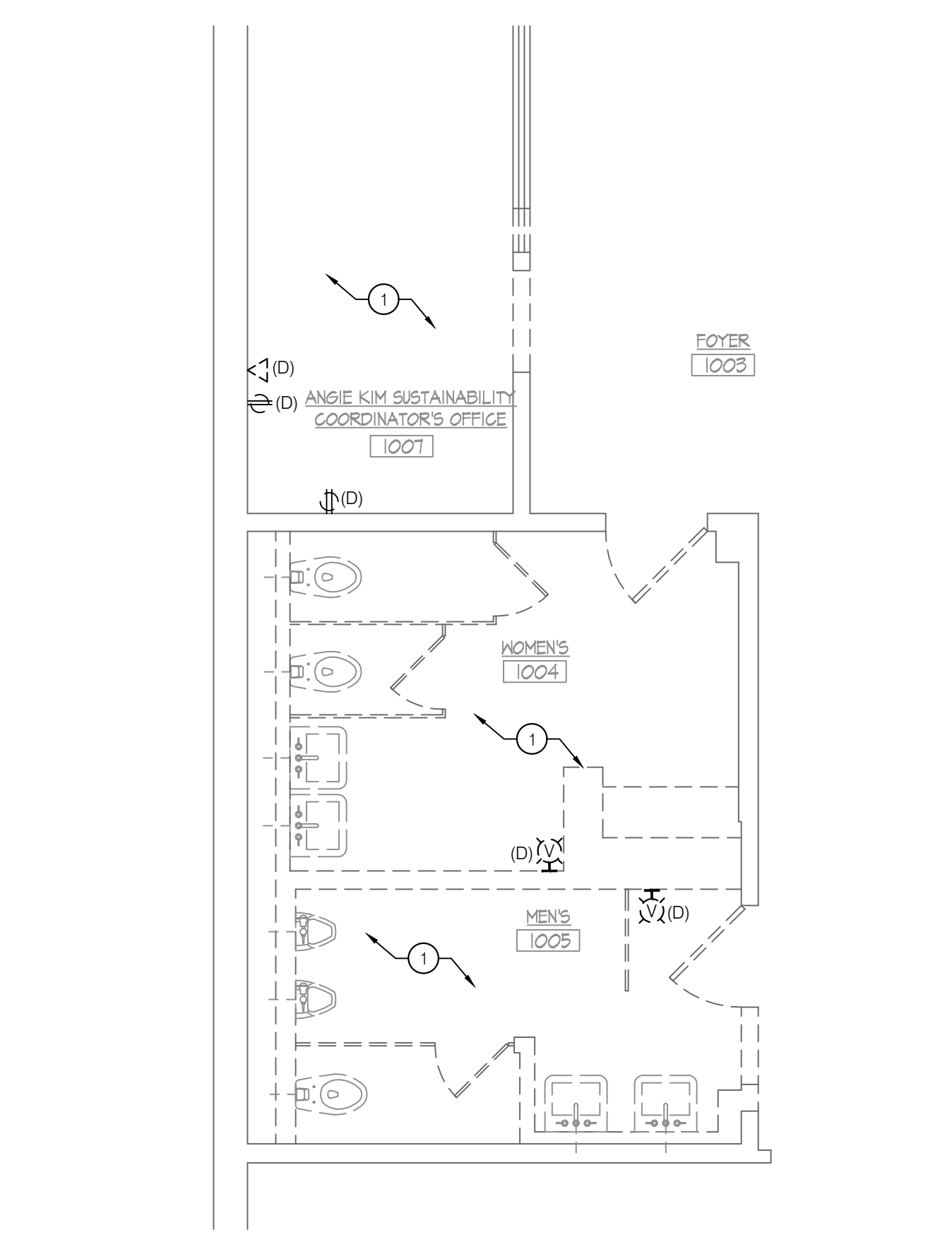
4 FIRST FLOOR PLAN - ELECTRICAL LIGHTING REMOVALS
E-103.00 SCALE: 1/4" = 1'-0"



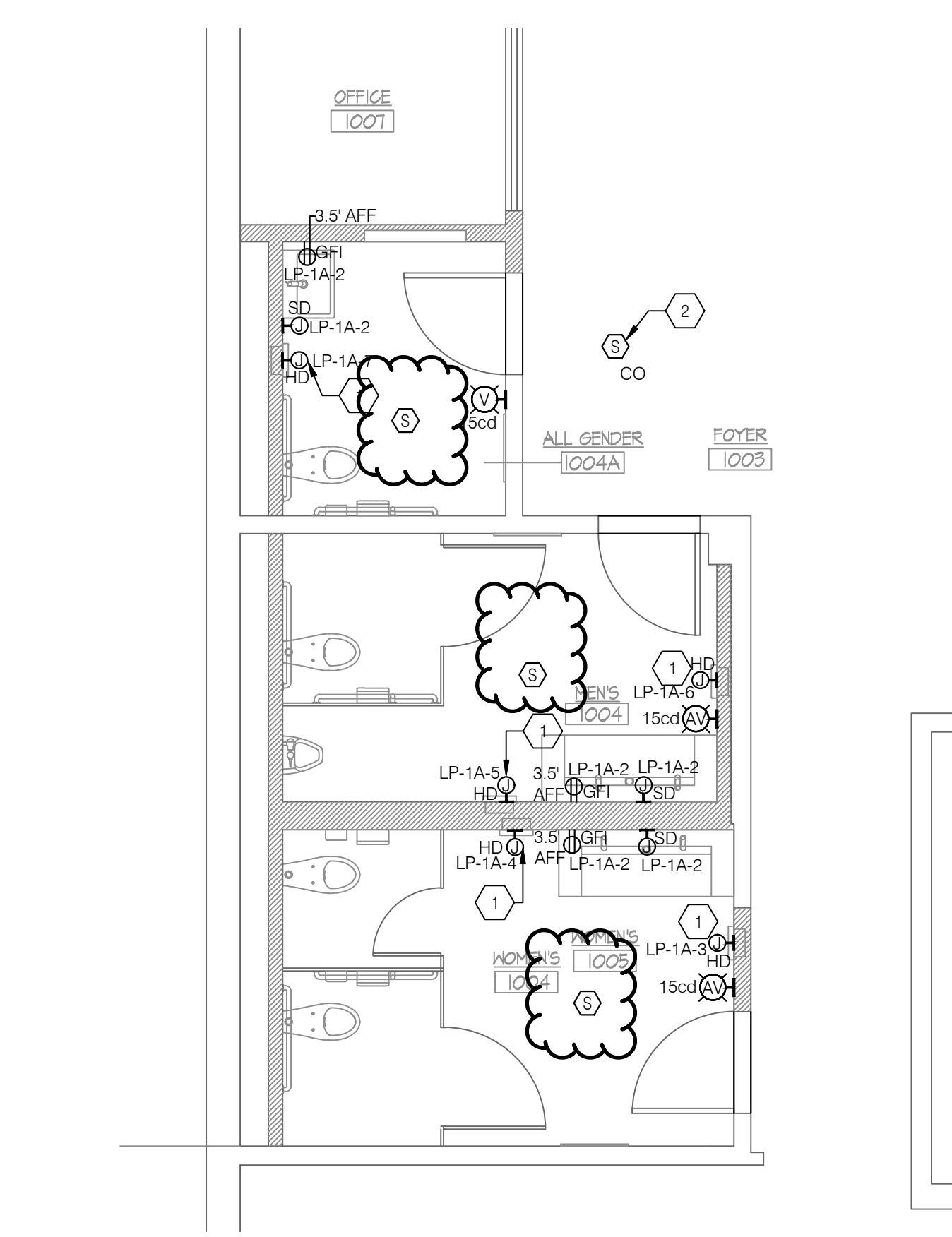
3 FIRST FLOOR PLAN - ELECTRICAL LIGHTING
E-103.00 SCALE: 1/4" = 1'-0"



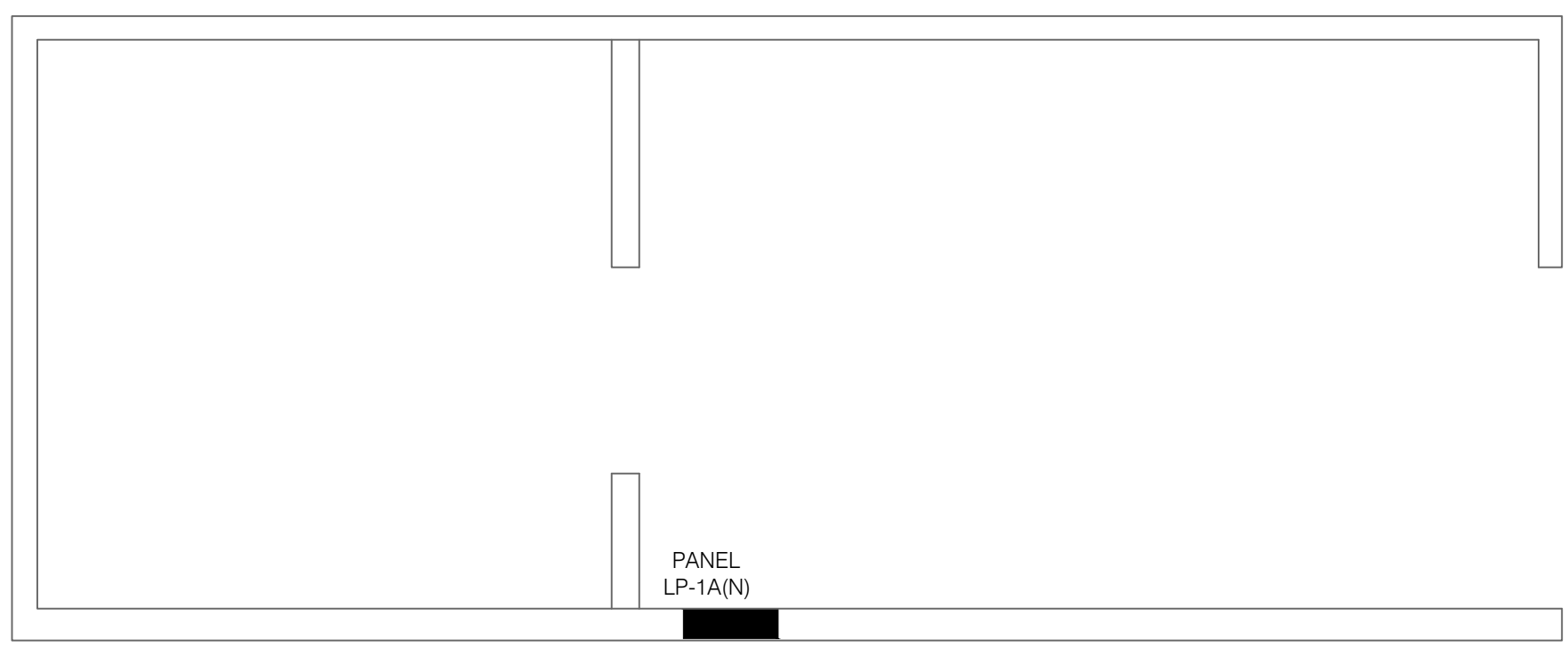
4 ENLARGED PLAN - ELEC. CLOSET
E-103.00 SCALE: 1/2" = 1'-0"



2 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM
E-103.00 SCALE: 1/4" = 1'-0"



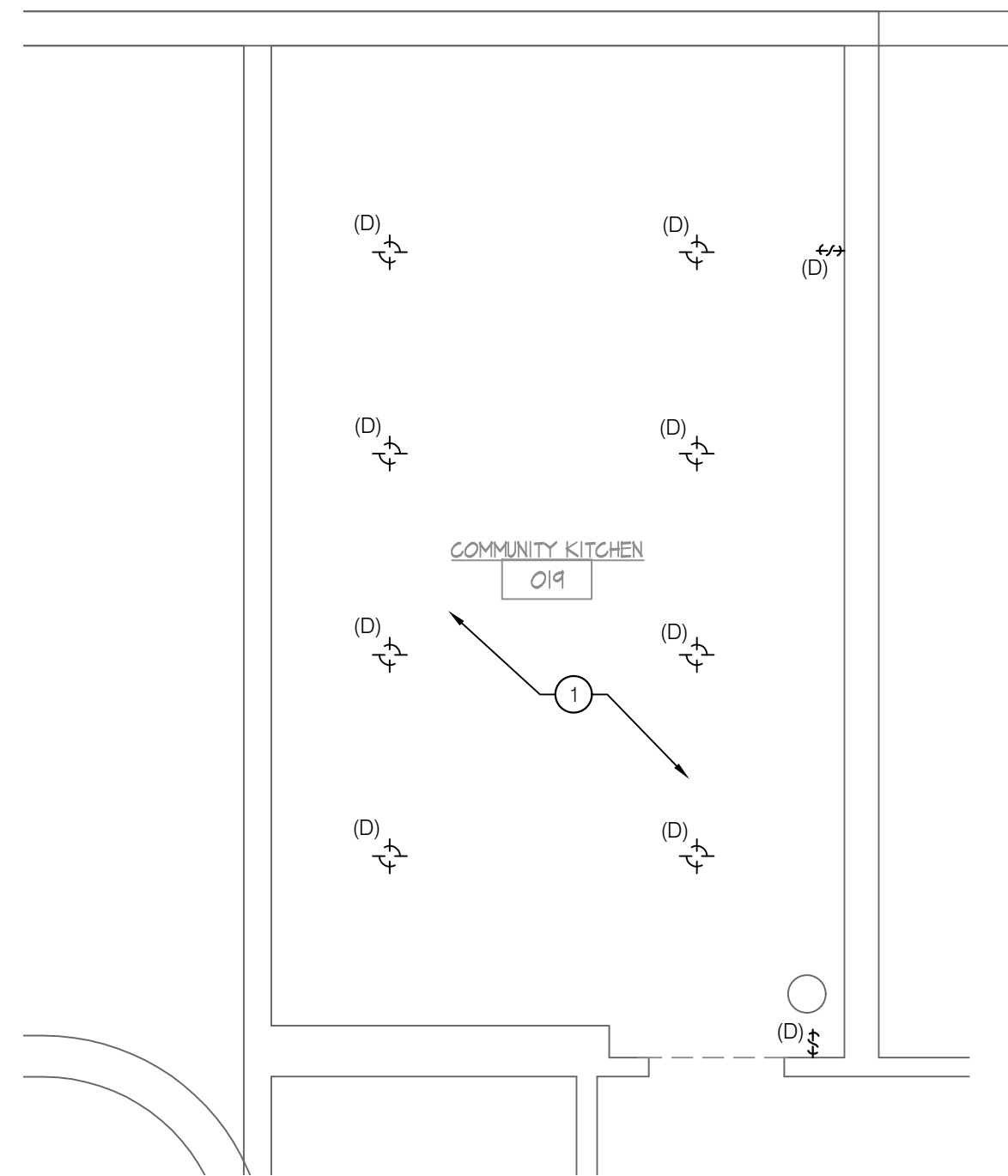
1 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM
E-103.00 SCALE: 1/4" = 1'-0"



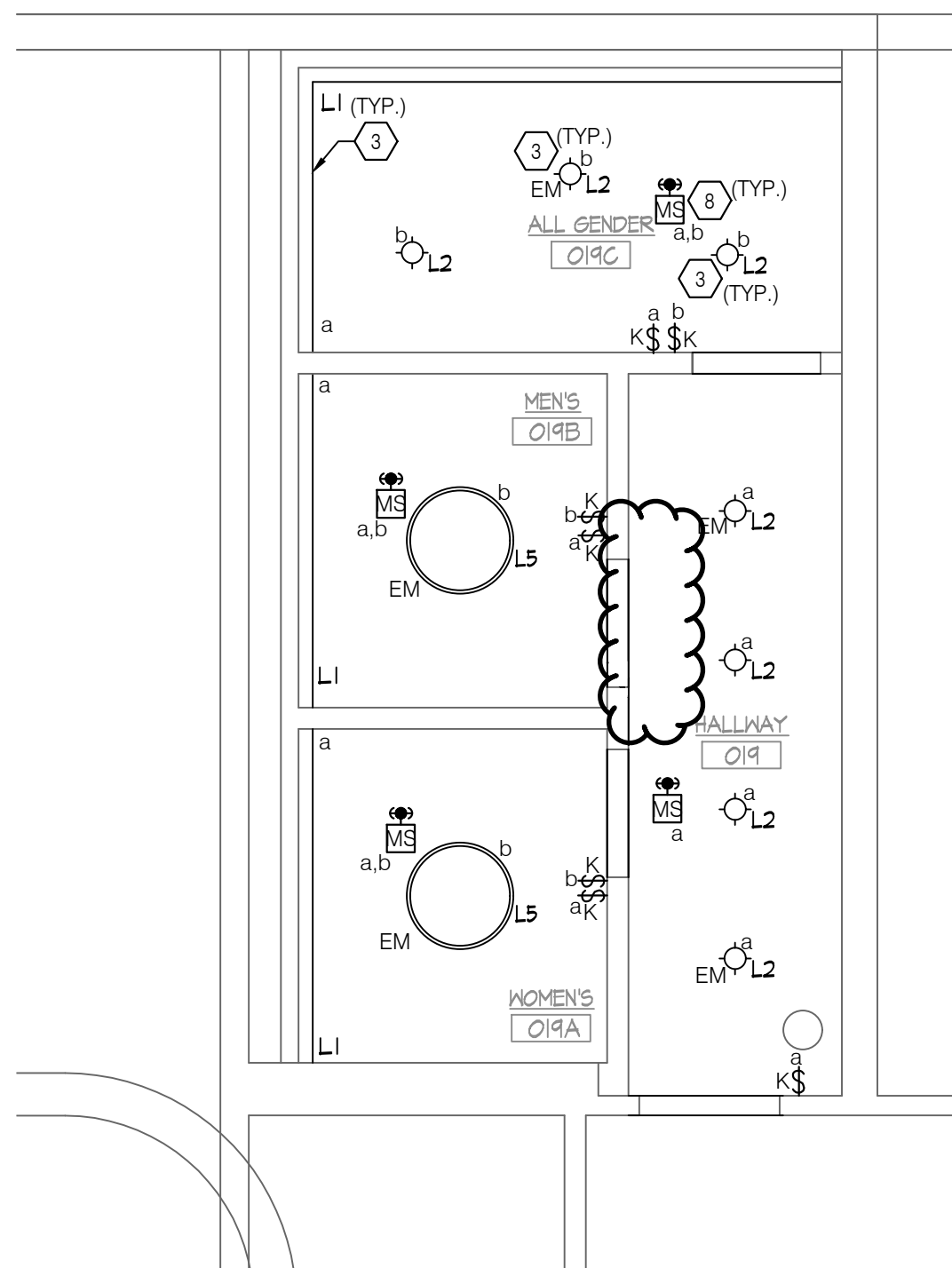
5 ENLARGED PLAN - COAT ROOM 108
E-103.00 SCALE: 1/2" = 1'-0"

- ### DEMOLITION KEY NOTES
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES, CONDUITS, WIRING BOXES, LIGHTING FIXTURE, SWITCHING SCHEME INCLUDING ALL TELEPHONE DATA RECEPTACLES (WALL/CEILING/FLOOR) SERVING THIS AREA ARE TO BE DEMOLISHED. MAINTAIN EXISTING CIRCUIT WIRING FROM LIGHTING FIXTURES FOR REUSE. ALL OTHER WIRING DEVICES, CONDUIT, AND FEEDERS SHALL BE REMOVED BACK TO SOURCE.

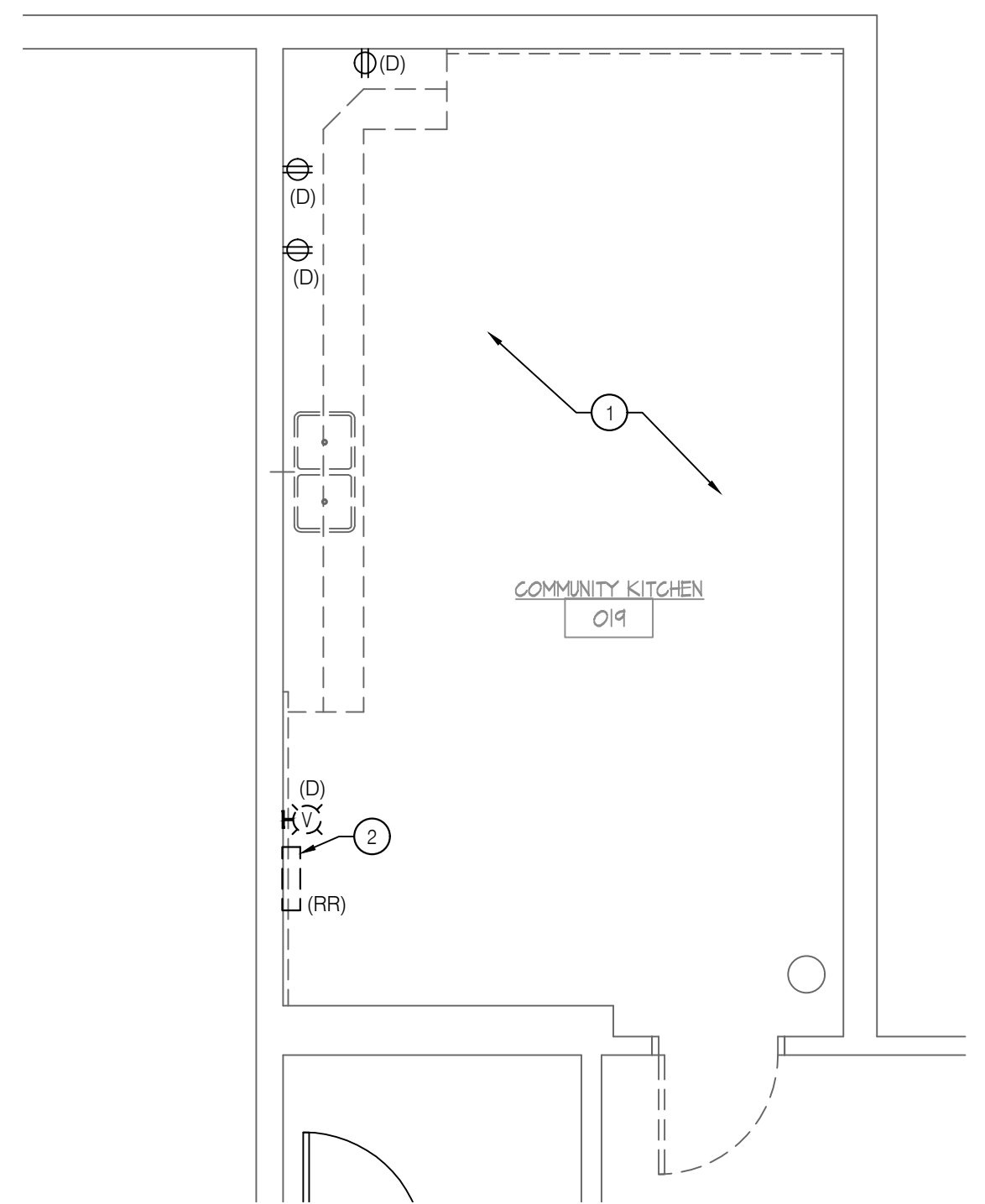
- ### SHEET KEY NOTES
- PROVIDE AUTOMATIC THERMAL-OVERLOAD SWITCH FOR DISCONNECTING MEANS.
 - CO DETECTORS SHALL HAVE BUILT IN SOUNDER BASES SHALL BE INSTALLED IN ACCORDANCE WITH BC 908 7.2.



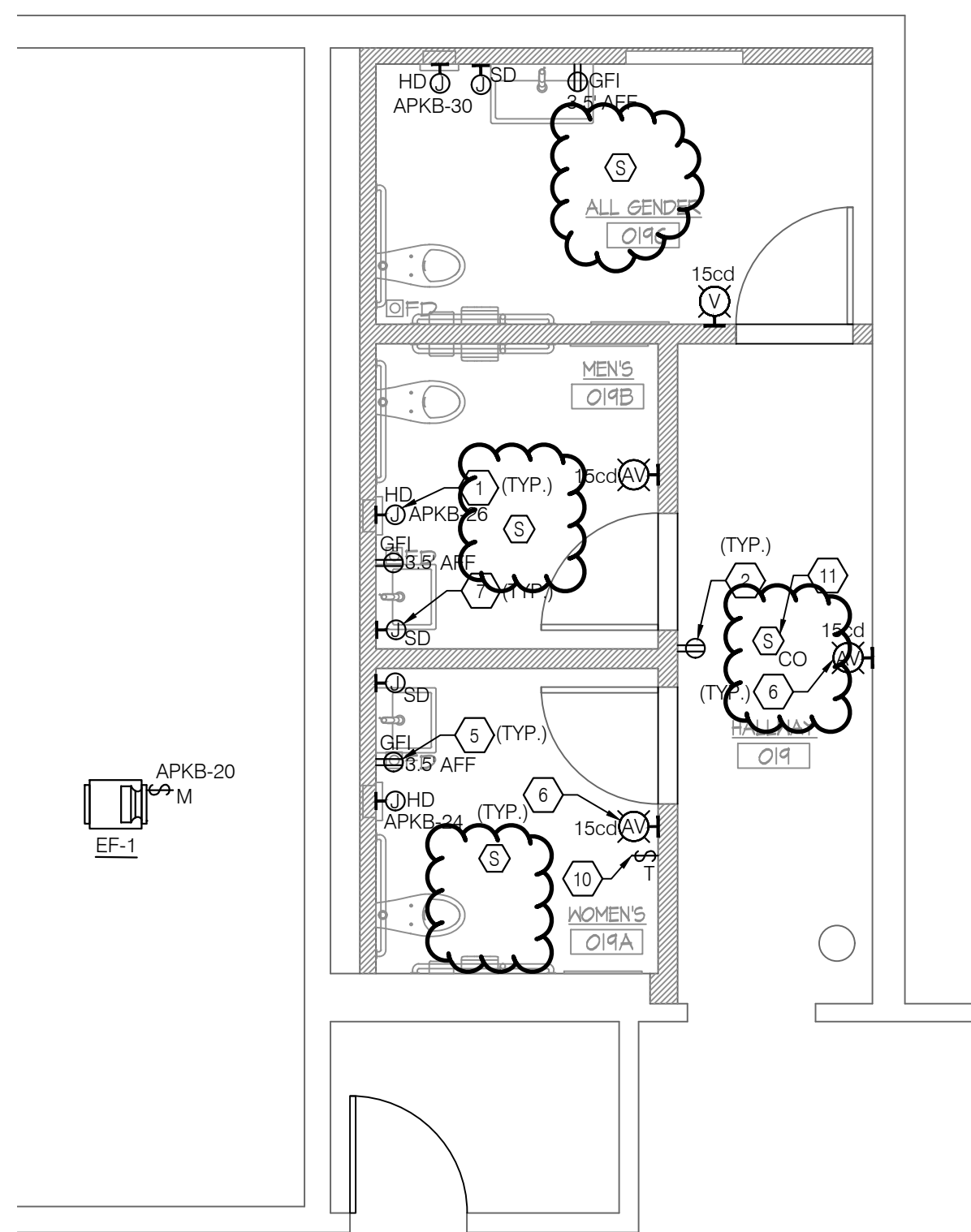
4 FIRST FLOOR PLAN - ELECTRICAL LIGHTING REMOVALS
E-104.00 SCALE: 1/4" = 1'-0"



3 FIRST FLOOR PLAN - ELECTRICAL LIGHTING
E-104.00 SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN - ELECTRICAL REMOVALS
E-104.00 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLAN - ELECTRICAL
E-104.00 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- UNLESS OTHERWISE NOTED, DEMOLISH ALL EXISTING ELECTRICAL AND FIRE ALARM DEVICES AND EQUIPMENT SHOWN OR NOT SHOWN ON PLANS AT DEMOLISHED WALL, CEILING AND FLOOR SECTIONS THROUGHOUT THE AREA OF WORK. ABANDON CONCEALED EXISTING CONDUITS INSTALLED IN CONCRETE WALLS OR SLABS.
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- REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS, DEVICES AND FIRE ALARM DEVICE INSTALLATION LOCATIONS.
- COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
- THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT, EXISTING FIRE ALARM INITIATING DEVICE, NOTIFICATION APPLIANCE, SIGNALING LINE CIRCUITS AND FIXTURES TO REMAIN SHALL BE MAINTAINED.
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- ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
- ALL NEW FIRE ALARM DEVICES MUST BE COMPATIBLE WITH AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, ZONED BY FLOOR. EXTEND EXISTING WIRING AND CONDUIT FOR RELOCATED DEVICES TO NEW LOCATIONS AS REQUIRED.
- WHERE MORE THAN TWO VISUAL (STROBE) NOTIFICATION APPLIANCES ARE IN THE FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION. PROVIDE EXTERNAL SYNC MODULE OR SYNC PROTOCOL BUILT IN TO THE FIRE ALARM CONTROL PANEL.
- LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
- AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
- ALL EMERGENCY LIGHTS AND EXIT SIGNS TO BE PROVIDED WITH INTEGRAL OR REMOTE EMERGENCY BATTERY PACK.
- CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION. ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
- UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS, DEVICES, FIRE ALARM DEVICES, LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN. DEVICES SHOWN WITH A SUBSCRIPT "D" AND DASHED LINE INDICATE EXISTING EQUIPMENT TO DEMOLISHED.

DEMOLITION KEY NOTES

- UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES, CONDUITS, WIRING/BOXES, LIGHTING FIXTURE, SWITCHING SCHEME INCLUDING ALL TELEPHONE/DATA, RECEPTACLES (WALL/CEILING/FLOOR) SERVING THIS AREA ARE TO BE DEMOLISHED. MAINTAIN EXISTING CIRCUIT WIRING FROM LIGHTING FIXTURES FOR REUSE. ALL OTHER WIRING DEVICES, CONDUIT, AND FEEDERS SHALL BE REMOVED BACK TO SOURCE.
- FIRE ALARM TERMINAL CABINET TO BE REMOVED AND RELOCATED.

SHEET KEY NOTES

- PROVIDE AUTOMATIC THERMAL-OVERLOAD SWITCH FOR DISCONNECTING MEANS.
- PROVIDE RECEPTACLE, EXTEND RACEWAY AND EXISTING CIRCUIT TO NEW LOCATION.
- PROVIDE LUMINAIRE IN NEW CEILING. EXTEND EXISTING LIGHTING CIRCUIT AND CONNECT TO LUMINAIRE PER DETAIL 1 ON DRAWING E-702.
- NOT USED.
- PROVIDE GFCI RECEPTACLE, EXTEND RACEWAY AND EXISTING CIRCUIT TO NEW LOCATION.
- PROVIDE FIRE ALARM STROBE, PROVIDE RACEWAY AS REQUIRED AND EXTEND EXISTING FIRE ALARM NOTIFICATION CIRCUIT. WIRING SHALL MATCH EXISTING.
- INSTALL SOAP DISPENSER TO EXISTING CIRCUIT. EXTEND RACEWAY AND EXISTING CIRCUIT TO NEW LOCATION.
- NOT USED.
- NOT USED.
- AUTOMATIC TIMER SWITCH TO TURN OFF EXHAUST FAN EF-1.
- CO DETECTOR SHALL HAVE BUILT IN SOUNDER BASES AS PER BC 908.7.2.

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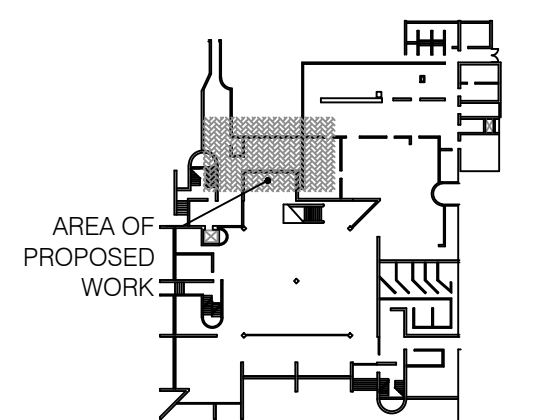
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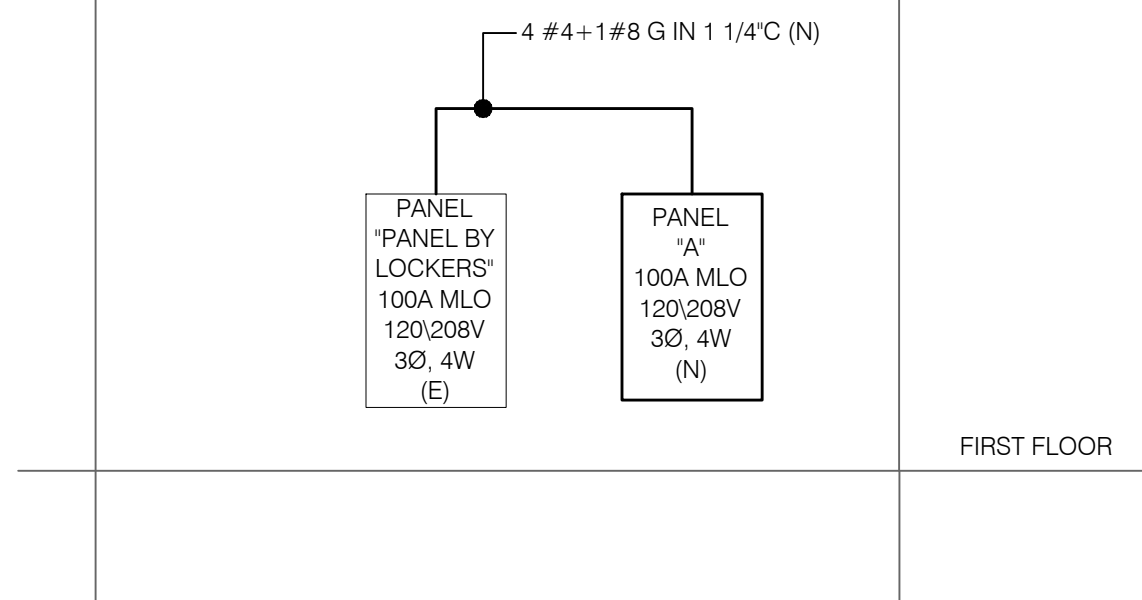
KEY PLAN



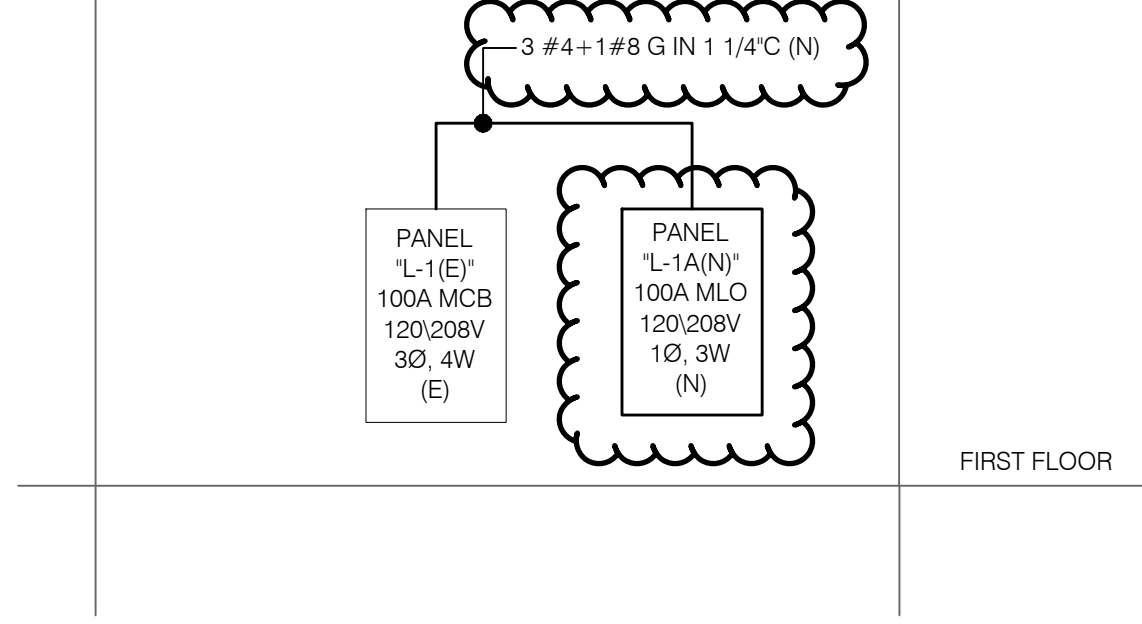
MAIN DINING HALL -
ELECTRICAL PLANS

Title	Date	Project No.
E-104.00	06-15-2023	1944
	Drawing By	
	CHK By	
Scale		AS NOTED
		DOB Rev

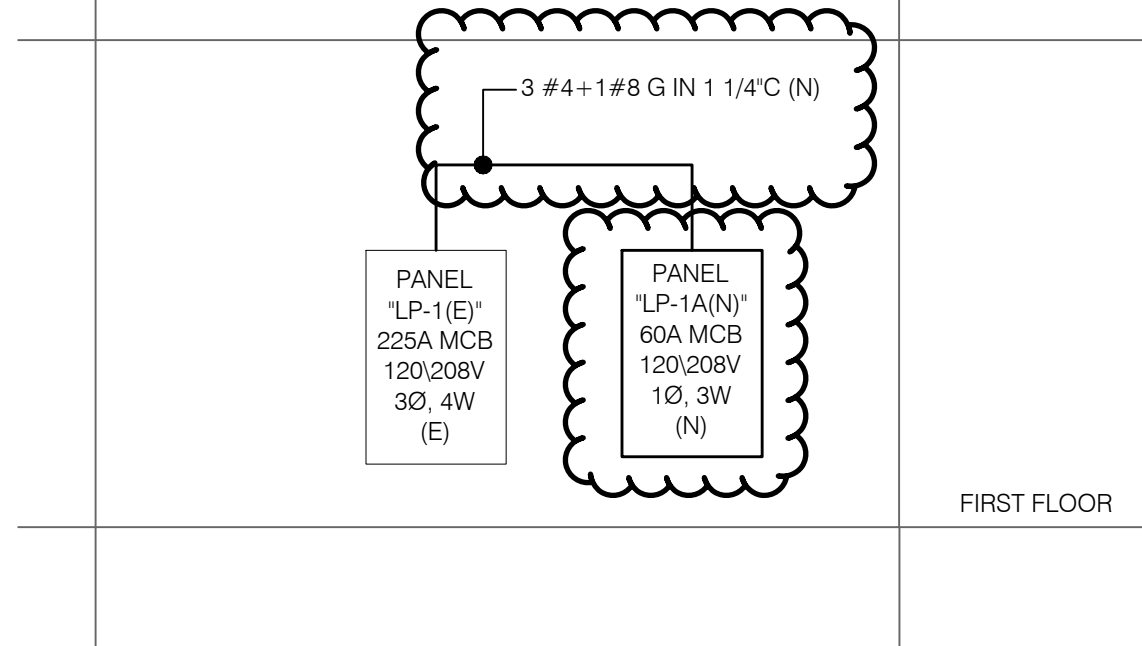
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E-501.00 SCALE: NTS



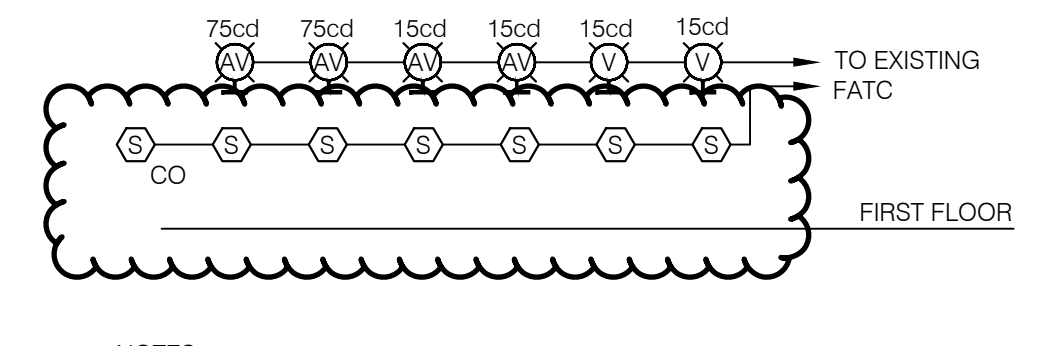
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E-501.00 SCALE: NTS



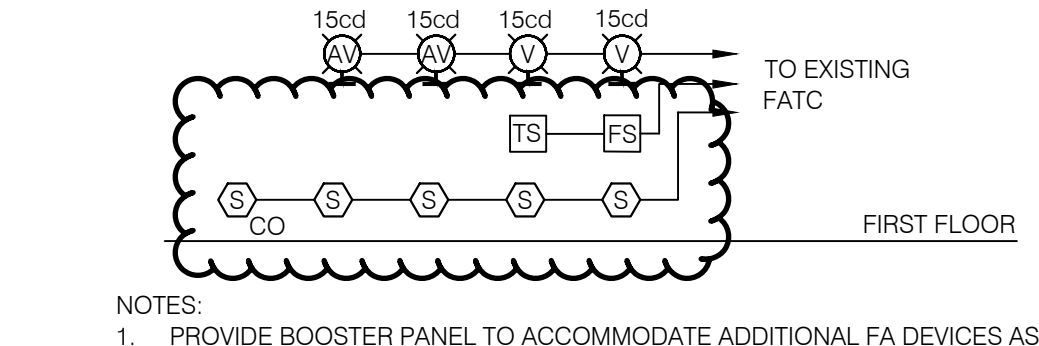
3 PARTIAL ELECTRICAL RISER (CAMPUS CENTER SOUTH)
E-501.00 SCALE: NTS



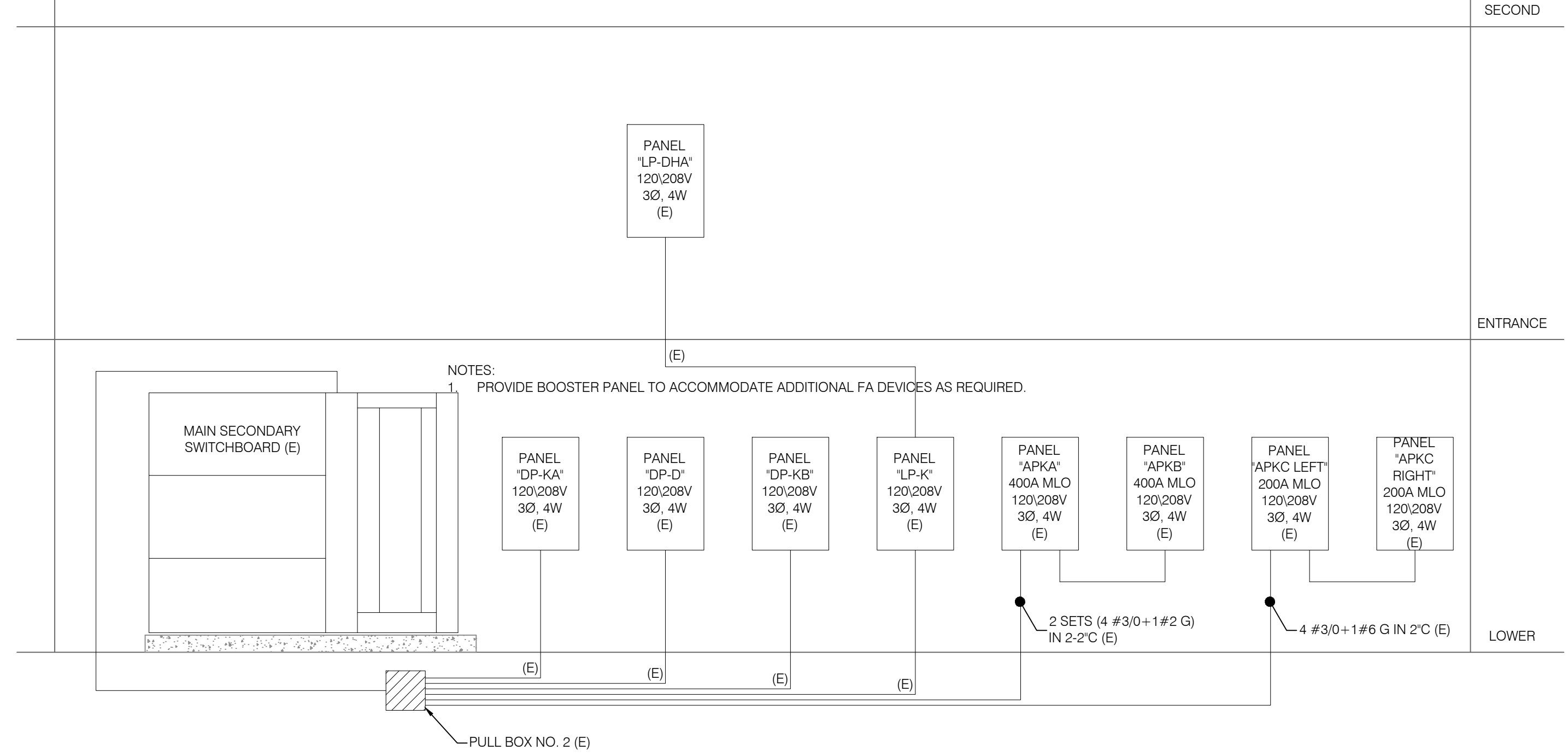
5 PARTIAL FIRE ALARM RISER (PHYSICAL EDUCATION)
E-501.00 SCALE: NTS



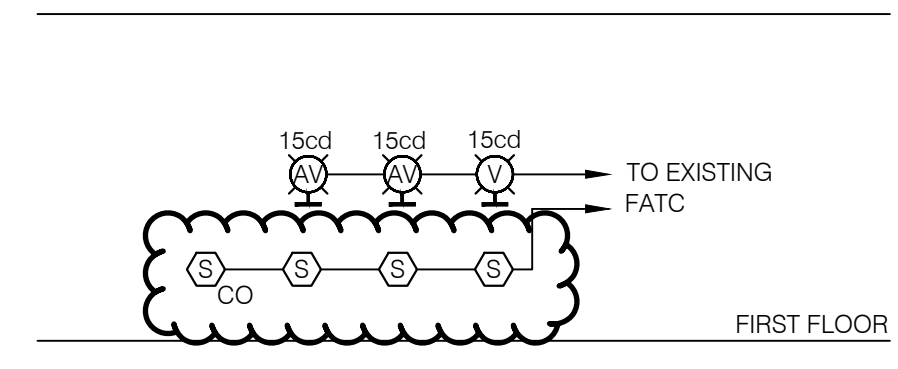
6 PARTIAL FIRE ALARM RISER (CAMPUS CENTER NORTH)
E-501.00 SCALE: NTS



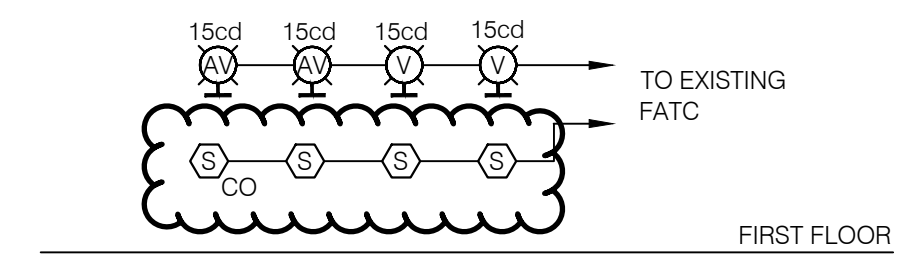
4 PARTIAL ELECTRICAL RISER (MAIN DINING HALL)
E-501.00 SCALE: NTS



7 PARTIAL FIRE ALARM RISER (CAMPUS CENTER SOUTH)
E-501.00 SCALE: NTS



8 PARTIAL FIRE ALARM RISER (MAIN DINING HALL)
E-501.00 SCALE: NTS



GENERAL NOTES

- THE FIRE ALARM RISER DIAGRAM ONLY INCLUDES NEW FIRE ALARM DEVICES. REFER TO FLOOR PLAN DRAWING TO VERIFY EXACT QUANTITY OF DEVICES.
- THE FIRE ALARM RISER DIAGRAM IS PROVIDED FOR REFERENCE ONLY AND IS NOT INTENDED TO DESCRIBE THE SYSTEM ARCHITECTURE AND DOES NOT INCLUDE ALL NECESSARY INFORMATION TO INSTALL THE SYSTEM. THE INSTALLED SYSTEM MUST MEET ALL REQUIREMENTS OF THE NFPA AND AHJ.
- THE FIRE ALARM SYSTEM IS DESIGNED TO UTILIZE HORN MODULES FOR AUDIBLE NOTIFICATIONS.
- ALL NEW FIRE ALARM VISUAL NOTIFICATION DEVICES IN THE SCOPE OF WORK AREA MUST BE ADA COMPLIANT.
- THE FIRE ALARM AUDIBLE DEVICE SHALL HAVE A SOUND LEVEL AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, THROUGHOUT THE AREA OF WORK.
- ALL EXISTING AND NEW FIRE ALARM DEVICES INSTALLED IN THE AREA OF WORK SHALL CONFORM WITH ALL STANDARDS AND REQUIREMENTS OF ADA, UL, ANS, AND NFPA. EXISTING NON-COMPLIANT DEVICES IN THE SCOPE OF WORK AREA SHALL BE REPLACED IN PLACE WITH NEW COMPLIANT DEVICES. VISUAL (STROBE) DEVICES SHALL BE EQUIPPED WITH FIELD SELECTABLE WITH MINIMUM 15 AND MAXIMUM 110 CANDELA RATED LIGHT OUTPUT OPTION AND SIMULTANEOUS FLASH RATE OF 1 TO 3 Hz.
- ALL SOUND MASKING, WHITE NOISE, PA AND SIMILAR SYSTEMS MUST BE DEACTIVATED WHEN AN ALARM SIGNAL IS INITIATED BY THE FIRE ALARM SYSTEM. CONTRACTOR TO PROVIDE MODULES TO INTERFACE WITH THE FIRE ALARM SYSTEM AS REQUIRED.
- THE FIRE ALARM SYSTEM IS TO BE CLEAR OF ALL TROUBLE AND ALARM SIGNALS AT THE END OF EACH DAY INCLUDING ANY REPROGRAMMING REQUIRED BY THE TEMPORARY OR PERMANENT REMOVAL OF EXISTING DEVICES.
- CONTRACTOR TO REPROGRAM THE EXISTING FIRE ALARM SYSTEM UPON COMPLETION OF ANY MODIFICATIONS TO THE SYSTEM AS REQUIRED, UNLESS OTHERWISE NOTED. MAINTAIN AND MATCH EXISTING SEQUENCE OF OPERATIONS.
- ALL FIRE ALARM WORK MUST BE COORDINATED WITH THE OWNER AND BUILDING ENGINEER AT LEAST 3 DAYS PRIOR TO INSTALLATION. THE FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL AS THE BUILD OUT OCCURS. OBTAIN WRITTEN PERMISSION FROM THE OWNER PRIOR TO THE INTERRUPTION OF THE BUILDING FIRE ALARM SYSTEM. THE CONTRACTOR MUST FOLLOW ALL BUILDING OWNER PROTOCOLS AND CODE REQUIREMENTS FOR A FIRE ALARM INTERRUPTION.
- THE BUILDING FIRE ALARM SYSTEM IS MONITORED BY "DATAWATCH SYSTEMS", PHONE NUMBER 301-280-4321.
- CONTRACTOR TO PREPARE AND SUBMIT FIRE ALARM SHOP DRAWINGS TO THE ENGINEER AND THE FIRE MARSHAL FOR REVIEW AND FINAL APPROVAL. CONTRACTOR TO BE PRESENT DURING FINAL INSPECTION AND TESTING BY THE FIRE MARSHAL. SHOP DRAWINGS SHALL INCLUDE:
 - SYSTEM RISER DIAGRAM AND FLOOR PLAN WITH DEVICE ADDRESSES, CONDUIT SIZES AND WIRE TYPE AND SIZES
 - FIRE ALARM EXTENDER PANEL, IF REQUIRED
 - COMPONENT WIRING DIAGRAMS
 - PRODUCT DATA SHEETS AND EQUIPMENT DESCRIPTION
 - BATTERY SIZE CALCULATIONS

ANY REVISIONS AND ADDITIONS REQUIRED BY THE AHJ PRIOR TO OBTAINING THE CERTIFICATE OF OCCUPANCY ARE THE RESPONSIBILITY OF THE CONTRACTOR.

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LIGHTING FIXTURE SCHEDULE										
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LUMENS	LAMP	WATTAGE	QUANTITY	VOLTAGE	REMARKS
L1		CELESTA LINEAR TAPE LIGHT, WHITE METAL CHANNEL	LUCETTA LIGHTING	VIP-24CEL150-30-XX-SLWH-3M-010	166 LM / FT	LED	1.8W/FT	180 FT	120/277 V	QUANTITY IS IN LINEAR FEET, REFER TO FLOOR PLANS FOR EXACT FIXTURE LENGTH
L2		4-INCH ROUND ALL-PURPOSE LED RETROFIT MODULE, 3000K, 90CRI, MATTE WHITE FINISH.	COOPER LIGHTING	LCR4-12-RD-9FS-E020 (NORMAL) LCR4-12-RD-9FS-E040 (EM)	1200 LM	LED	14W	55	120/277 V	EM FIXTURE TO COME WITH 90 MINUTE EMERGENCY BATTERY BACKUP.
L3		FLUSH MOUNT	METALUX LIGHTING	NWS 2 FT	3500 LM	LED	15W	2	120/277 V	REUSE OR USE SPECIFIED (CUSTODIAN ROOMS ONLY)
L5		IN/OUT CIRCULAR LED PENDANT, 3" DIA, 3000K, 93CRI, WHITE FINISH	DELRAY LIGHTING	UDCicC-3-W-W30-D-EM	5438 LM	LED	75W	3	120 V	EM FIXTURE TO COME WITH 90 MINUTE BATTERY BACKUP. SEPARATE REMOTE MOUNTING IS REQUIRED.

NOTES:

- PROVIDE FIXTURES WITH ALL NECESSARY ACCESSORIES TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
- COORDINATE WITH ARCHITECT FOR ALL FIXTURE FINISHES, LENS ACCESSORIES, CEILING TYPE AND MOUNTING REQUIREMENTS.
- CONDUCTOR SIZE FEEDING ALL EMERGENCY LIGHT FIXTURES SHALL BE #10 AWG, OR SHALL MATCH EXISTING CONDUCTOR SIZE.
- ALL EMERGENCY LIGHT FIXTURES SHALL BE FED VIA #10 AWG, UNLESS OTHERWISE NOTED ON PLAN. ALL EMERGENCY LIGHTING SHALL BE APPROVED WITH INTEGRAL OR REMOTE BATTERY BACKUP.
- ALL DIMMER SWITCHES MUST BE COMPATIBLE WITH DIMMABLE BALLASTS. CONTRACTOR TO ENSURE ALL SWITCHES ARE RATED TO ACCOMMODATE THE LOAD REQUIREMENTS OF ASSOCIATED LIGHTING CIRCUIT.
- UNLESS OTHERWISE NOTED, ALL FLUORESCENT FIXTURES SHALL BE PROVIDED WITH (3500K) or (4100K) LAMPS.
- ALL APPLICABLE LIGHT FIXTURES, SWITCHES, BALLASTS AND ASSOCIATED ACCESSORIES MUST BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM SERVING THE SPACE.

GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT, PANELS AND FEEDERS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

Title ELECTRICAL RISER DIAGRAMS AND SCHEDULES

Date 06-15-2023
Project No. 1944
Drawing By LJ
CHK By SM
Scale AS NOTED

E-501.00

GENERAL FIRE PROTECTION NOTES

1. AUTOMATIC SUPERVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED THROUGHOUT THE SCOPE OF WORK AREA IN ACCORDANCE WITH THE CODES AND STANDARDS LISTED BELOW.
2. SPRINKLERS IN THE SCOPE OF WORK AREA SHALL BE REMOVED AND REPLACED WITH NEW TO ACCOMMODATE THE NEW ARCHITECTURAL LAYOUT IN ACCORDANCE WITH THE CODES AND STANDARDS LISTED BELOW. REFER TO ARCHITECTURAL DRAWINGS FOR COMPLETE SCOPE OF WORK.
3. IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE DESIGN, MATERIALS, AND EQUIPMENT FOR A FULLY FUNCTIONING AND OPERATING SPRINKLER SYSTEM, INCLUDING THE PROPER INTERFACE AND COORDINATION WITH MECHANICAL, ELECTRICAL, PLUMBING, ARCHITECTURAL, AND STRUCTURAL SYSTEMS.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS OF THE AUTHORITY HAVING JURISDICTION.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE LOCATIONS OF SPRINKLERS AND SLOPED PIPING WITH LIGHTING FIXTURES, DIFFUSERS, DUCTWORKS, CLEARANCE REQUIRED FOR EQUIPMENT ACCESS, CONDUITS, PIPES, STRUCTURAL MEMBERS, AND ALL OTHER OBSTRUCTIONS FOR A CODE COMPLIANT COVERAGE IN ACCORDANCE WITH NFPA 13.
6. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED UNLESS APPROVED BY THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER.
7. PIPING LAYOUTS, WHERE SHOWN, ARE DIAGRAMMATIC AND SHOWS SYSTEM INTENT ONLY. THE CONTRACTOR SHALL PROVIDE FINAL LAYOUT AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH THE STATE BUILDING CODE AND REFERENCED NFPA 13.
8. SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED THROUGH THE MAIN DRAIN VALVES FOR THE SYSTEM. WHERE TRAPPED SECTIONS OF PIPING CANNOT BE AVOIDED, AUXILIARY DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
9. DO NOT INSTALL PIPING BELOW HVAC EQUIPMENT OR THAT INTERFERES WITH ANY TYPE OF ACCESS PANELS.
10. SPRINKLERS LOCATED IN AREAS EXPOSED TO STRUCTURE ABOVE SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR OBSTRUCTED OR UNOBSTRUCTED CONSTRUCTION CLASSIFICATIONS.
11. SPRINKLERS SHALL BE PROVIDED BELOW DUCTWORK OR EQUIPMENT GREATER THAN 4 FEET IN WIDTH AND COMPLY WITH ALL APPLICABLE OBSTRUCTION RULES OF NFPA 13.
12. WHERE CEILING TILES ARE PROVIDED, SPRINKLERS SHALL BE CENTERED IN CEILING TILES.
13. SPRINKLER GUARDS SHALL BE PROVIDED ON SPRINKLERS IN AREAS SUBJECT TO MECHANICAL DAMAGE AND ON SPRINKLERS LOCATED LESS THAN 7 FEET ABOVE FINISHED FLOOR.
14. PROVIDE ORDINARY TEMPERATURE SPRINKLERS IN ALL AREAS EXCEPT WHERE INTERMEDIATE OR HIGH TEMPERATURE SPRINKLERS ARE SPECIFICALLY REQUIRED BY NFPA 13.
15. SPRINKLERS THAT HAVE BEEN PAINTED OVER WITH PAINT FROM OTHER THAN THE SPRINKLER MANUFACTURER SHALL BE REPLACED WITH NEW.
16. ALL PIPING SHALL BE HYDROSTATICALLY TESTED AT SYSTEM WORKING PRESSURE. TESTING SHALL NOT EXCEED 80 PSI.

DESIGN CRITERIA

- SPRINKLER SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 HAZARD CLASSIFICATIONS AND THEIR CORRESPONDING DESIGN DENSITY, DESIGN AREA, AND HOSE STREAM REQUIREMENTS. PIPE SCHEDULE METHOD IS NOT PERMITTED TO BE USED. MINIMUM SAFETY FACTOR OF 10 PSI SHALL BE PROVIDED.
1. LIGHT HAZARD: HALLWAY, ALL GENDER, MEN'S, WOMEN'S RESTROOM AND SIMILAR SPACES SHALL BE DESIGNED USING 0.1 GPM/SF OVER 1500 SQUARE FEET WITH 100 GPM HOSE STREAM. MAXIMUM SPRINKLER PROTECTION AREA SHALL NOT EXCEED 225 SQUARE FEET.

FIRE PROTECTION REMOVALS NOTES

1. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR FULL EXTENT OF DEMOLITION SCOPE OF WORK.
2. CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND SCOPE OF WORK PRIOR TO SUBMITTING BIDS.
3. EXISTING CONDITIONS, WHERE SHOWN, IS BASED ON AVAILABLE AS-BUILT DOCUMENTATION FROM THE OWNER AND SITE SURVEYS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS ACTUAL CONDITIONS MAY VARY.
4. EXISTING FIRE PROTECTION SYSTEM COMPONENTS IN THE SCOPE OF WORK AREA THAT ARE FOUND TO BE DAMAGED OR NOT IN REUSABLE CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND REPLACED WITH NEW.
5. CONTRACTOR SHALL COORDINATE ALL REMOVAL, DISPOSAL, AND STORAGE OF EXISTING EQUIPMENT WITH THE OWNER.
6. SHUTDOWN OF SPRINKLER SYSTEM TO PERFORM REQUIRED WORK SHALL BE KEPT TO A MINIMUM AND COORDINATED WITH THE OWNER AT LEAST THREE DAYS IN ADVANCE. SPRINKLER SYSTEM SHALL NOT BE SHUTDOWN WITHOUT OWNER APPROVAL.

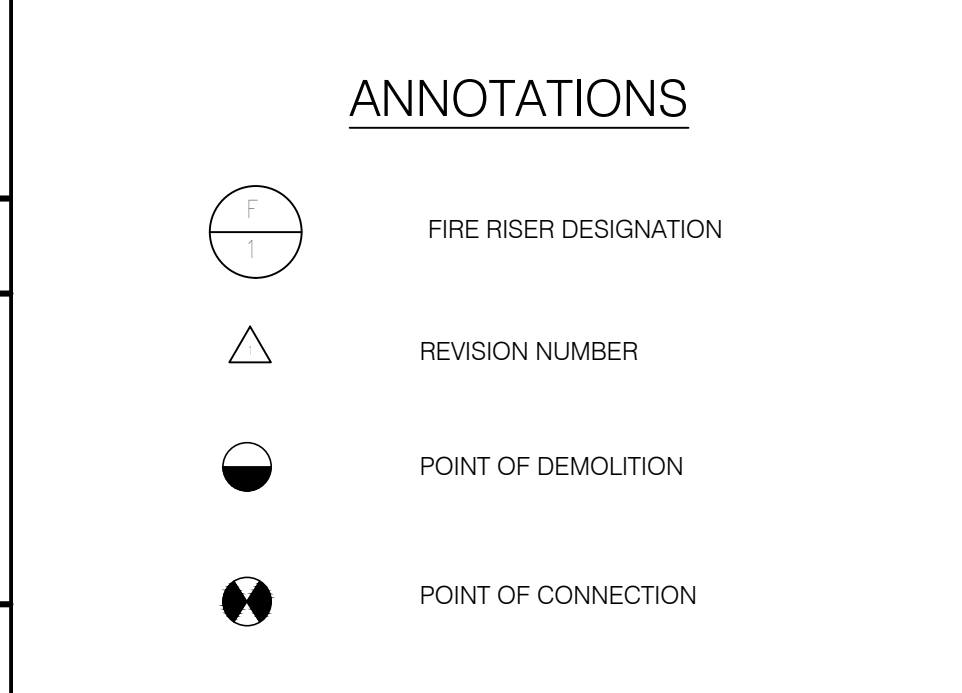
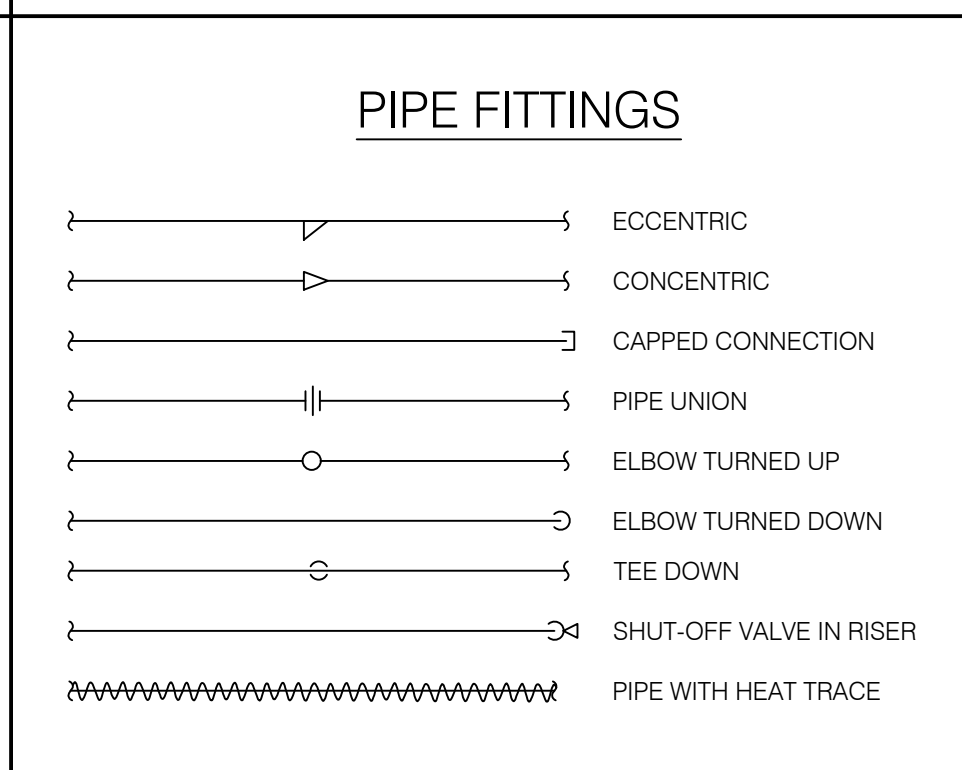
CODES AND STANDARDS

2020	NYS BUILDING CODE
2020	NYS EXISTING BUILDING CODE
2020	NYS FIRE CODE
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016

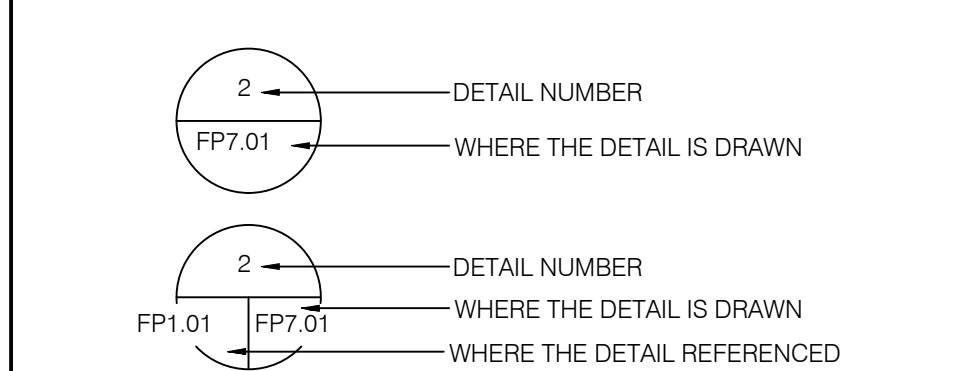
SPRINKLER LEGEND

SYMBOL	K FACTOR	TYPE	ORFICE	RESPONSE	FINISH	TEMP.
●	5.6	UPRIGHT	1/2"	QUICK	BRASS	155° F

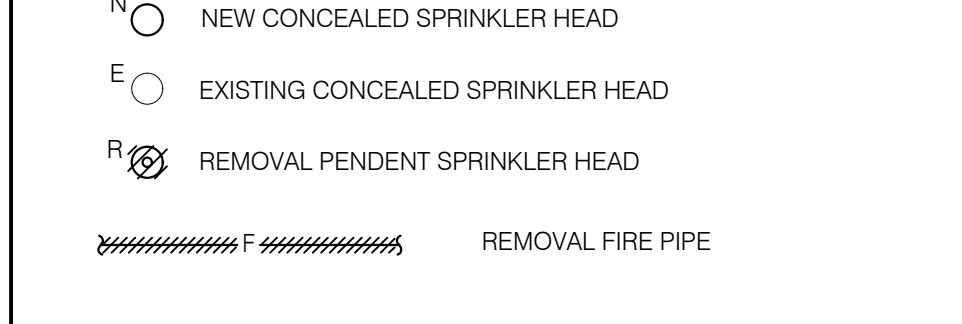
SYMBOLS



ANNOTATIONS



DETAIL ANNOTATIONS



ABBREVIATIONS

AAV	AUTO AIR VENT ABOVE	N	NEW NATIONAL FIRE PROTECTION ASSOCIATION
ABV	ABOVE FINISHED FLOOR	NFPA	NOT IN CONTRACT NUMBER
AD	ACCESS PANEL	OS&Y	OUTSIDE STEM AND YOLK
AFF	ARCHITECTURAL AMERICAN SOCIETY OF MECHANICAL ENGINEERS	P	PUMP
AHJ	AUTHORITY HAVING JURISDICTION	PH	PHASE (ELECTRICAL)
AP	ARCHITECTURAL AMERICAN SOCIETY OF MECHANICAL ENGINEERS	PRV	PRESSURE REDUCING VALVE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	PSI	POUNDS PER SQUARE INCH
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	QR	QUICK RESPONSE
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS	RPM	REVOLUTIONS PER MINUTE
BLDG	BUILDING BELOW	SAN	SANITARY/WASTE PIPE
BLW	BUILDING BELOW	SF	SQUARE FEET
CFM	CUBIC FEET PER MINUTE	SS	STAINLESS STEEL
CLG	CEILING CONNECTION	STP	STANDPIPE
CONN	CONNECTION	STRUC	STRUCTURAL
CNT	COUNT	TDA	TEST AND DRAIN ASSEMBLY
CW	COLD WATER	TEMP	TEMPERATURE
D	DEMOLISH / REMOVAL	TYP	TYPICAL
D/CWASA	D.C. WATER AND SEWER AUTHORITY	W	WATT
DIA	DIAMETER	WM	WATER METER
DN	DOWN	WTR	WATER
DWG	DRAWING	W/	WITH
E	EXISTING	W/O	WITHOUT
EA	EACH		
EQUIP	EQUIPMENT		
ETR	EXISTING TO REMAIN		
F	FIRE		
FD	FLOOR DRAIN		
FDC	FIRE DEPARTMENT CONNECTION		
FHC	FIRE HOSE CABINET		
FHV	FIRE HOSE VALVE		
FL	FLOOR		
FOB	FLAT ON BOTTOM		
FOT	FLAT ON TOP		
FS	FLOW SWITCH		
FT	FEET		
GAL	GALLON		
GPM	GALLONS PER MINUTE		
HDPE	HIGH DENSITY POLYETHYLENE		
HP	HORSE POWER		
HB	HOSE BIB		
IN	INCH		
INV	INVERT		
KW	KILOWATT		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MTD	MOUNTED		

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

FIRE PROTECTION DRAWING LIST		
SHEET	DRAWING	TITLE
1	F-001.00	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	F-101.00	CAMPUS CENTER NORTH - FIRE PROTECTION PLANS
3	F-701.00	FIRE PROTECTION DETAILS

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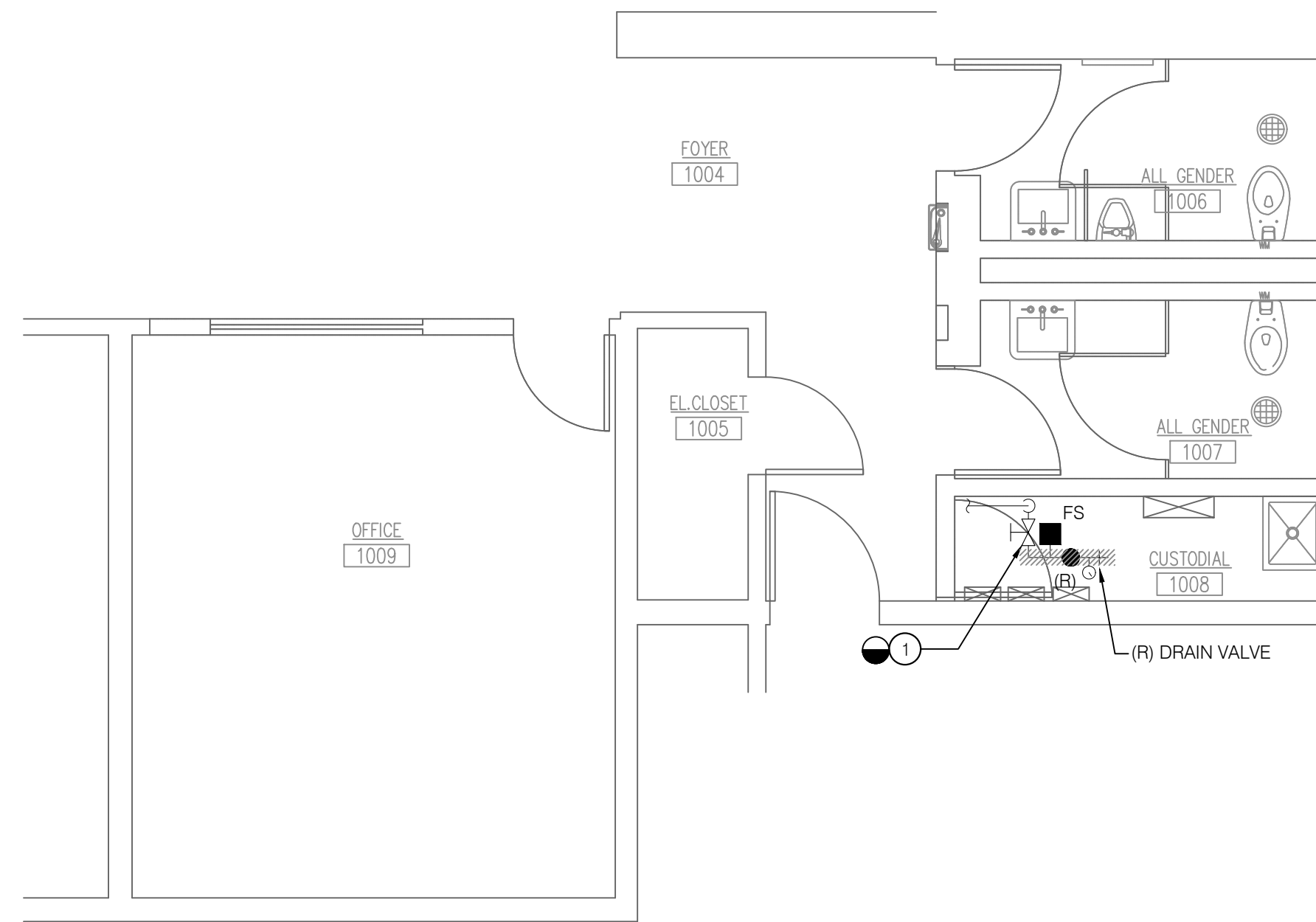
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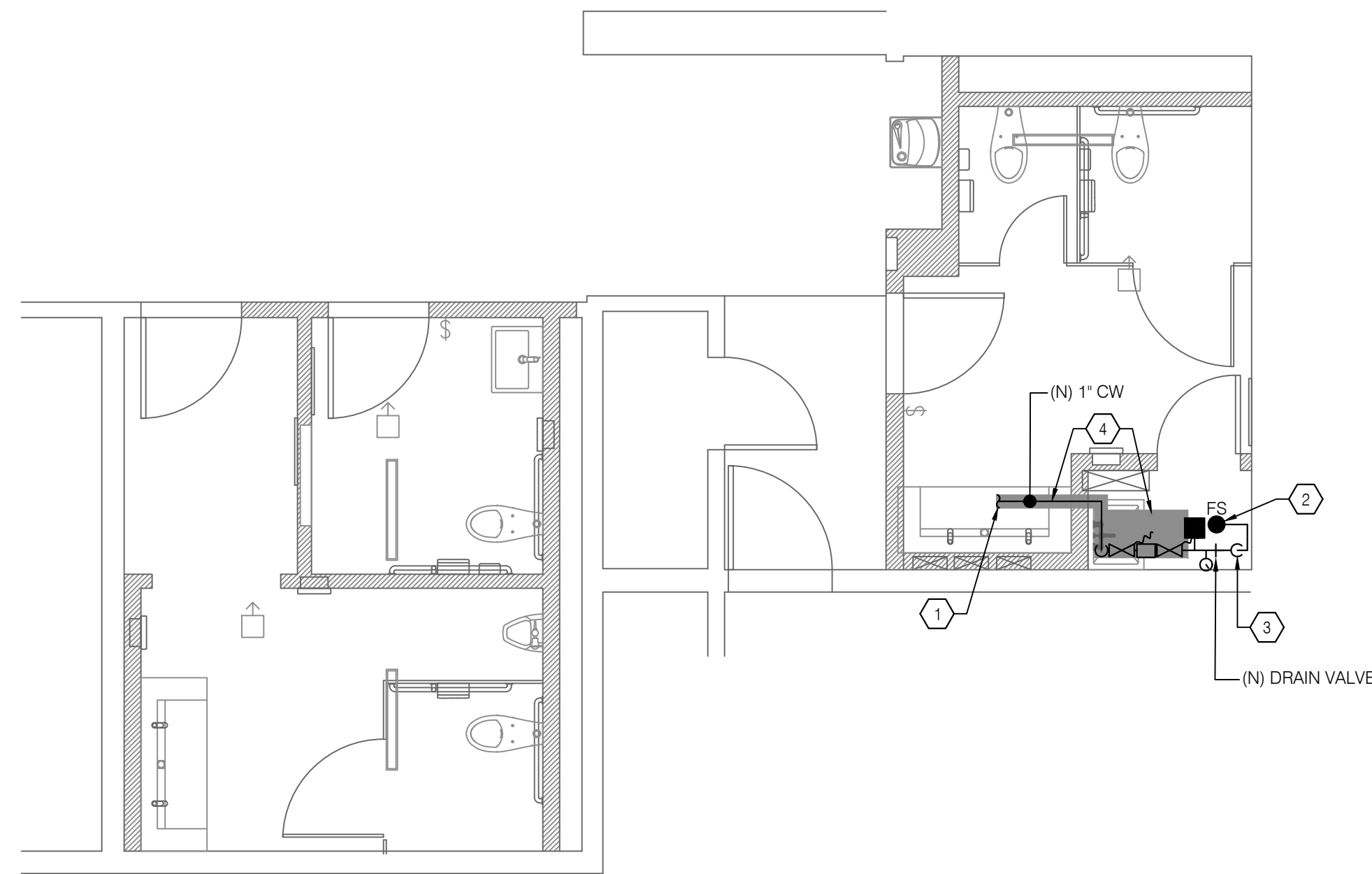
Title **GENERAL NOTES,
SYMBOLS &
ABBREVIATIONS**

Date	06-15-2023
Project No.	1944
Drawing By	CHS
CHK By	KB
Scale	AS NOTED
F-001.00	

DOB Rev



1 FIRST FLOOR PLAN - FIRE PROTECTION REMOVALS
 F-101.00 SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN - FIRE PROTECTION NEW WORK
 F-101.00 SCALE: 1/4" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE EXISTING PIPING, SPRINKLER HEAD, VALVES, AND APPURTENANCES BACK TO CONTROL VALVE.

NEW WORK KEY NOTES

1. REFER TO PLUMBING PLAN FOR CONTINUATION.
2. NEW QUICK RESPONSE UPRIGHT SPRINKLER HEAD PLACED BETWEEN 1'-12" BELOW FINISHED CEILING.
3. 1" SPRINKLER RISE TO SPRINKLER HEAD.
4. 1" CW PIPING AND DOUBLE CHECK VALVE SHOWN FOR REFERENCE ONLY. REFER TO PLUMBING PLANS FOR CONTINUATION. PROVIDE (2) TOTAL TAMPER SWITCHES FOR VALVES ASSOCIATED WITH DOUBLE CHECK VALVE ASSEMBLY.

**RESTROOM RENOVATION
 PURCHASE COLLEGE**

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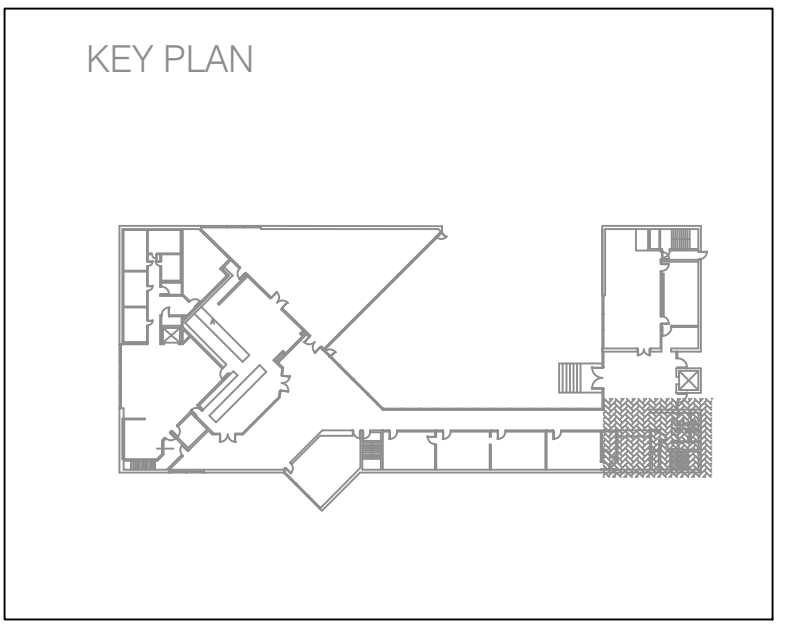
PHASE 3:

CAMPUS CENTER NORTH BUILDING
 CAMPUS CENTER SOUTH BUILDING
 PHYSICAL EDUCATION BUILDING
 MAIN DINING HALL

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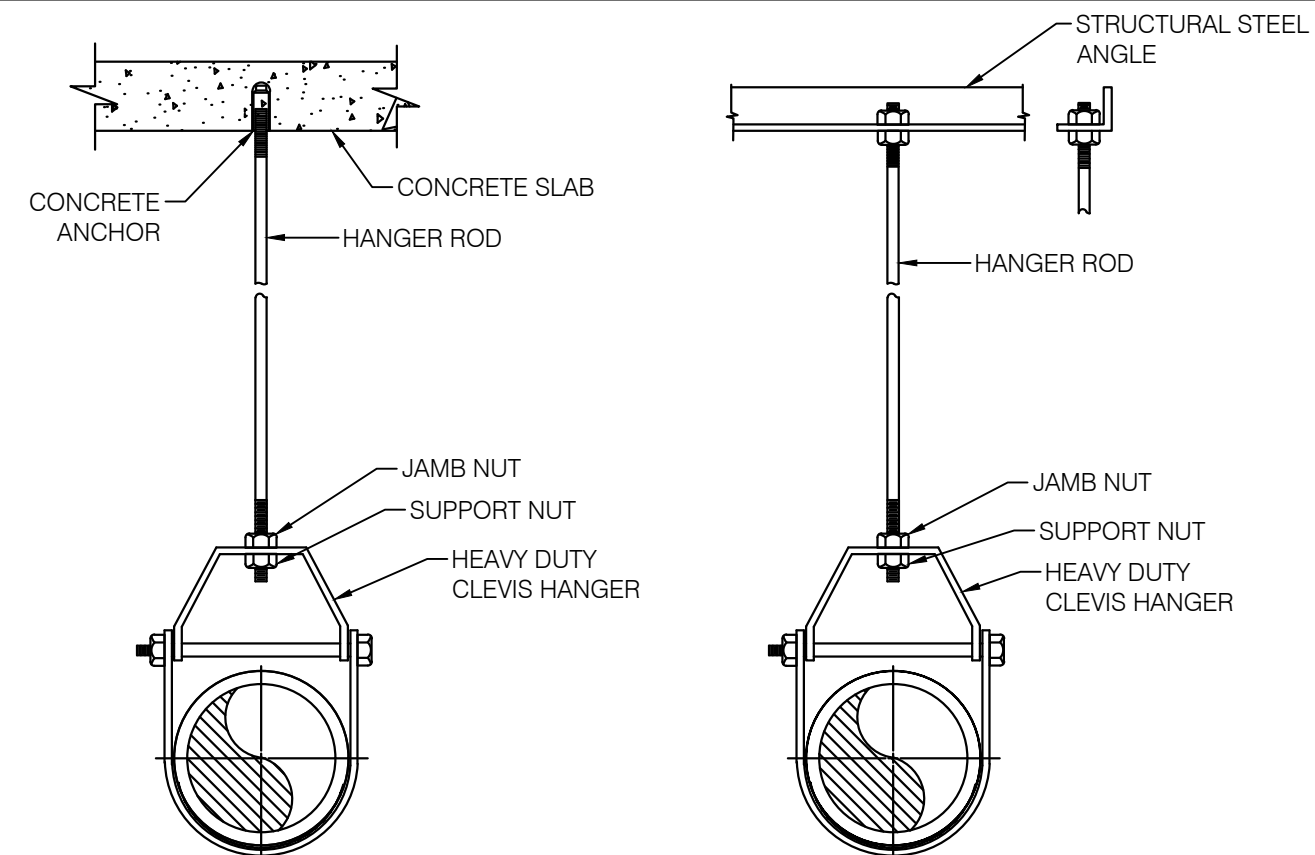
Rev	Date	Issue
	27 Feb 2023	Issue for Bid
	6/16/2023	PHASE 3 ADDENDUM #1



Title
**CAMPUS CENTER NORTH -
 FIRE PROTECTION PLANS**

Date	06-15-2023
Project No.	1944
Drawing By	CHS
CHK By	EB
Scale	AS NOTED
F-101.00	

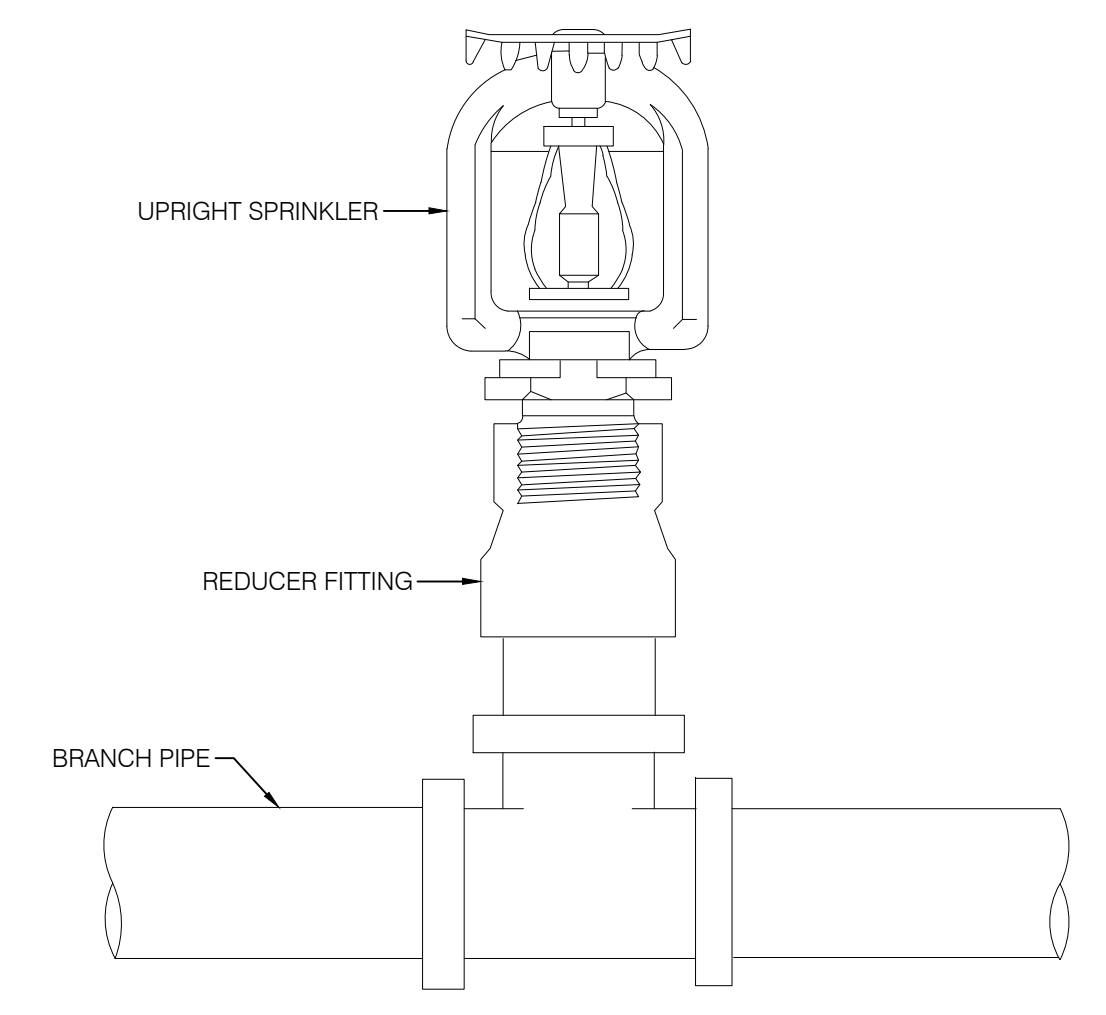




MAXIMUM DISTANCE BETWEEN HANGERS (FEET - INCHES)

	NOMINAL PIPE SIZE (IN INCHES)										
	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHT WALL	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A	N/A

2 PIPE SUPPORT DETAIL
 F-701.00 SCALE: NOT TO SCALE



1 UPRIGHT SPRINKLER DETAIL
 F-701.00 SCALE: NOT TO SCALE

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Title **FIRE
 PROTECTION
 DETAILS**

Date 06-15-2023
 Project No. 1944
 Drawing By CHS
 CHK By KB
 Scale AS NOTED

F-701.00 DOB Rev