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<u>ADDENDA</u>

ADDENDUM NUMBER 1

DATE: 12/20/2024

PROJECT: SEMCO Emergency Operations Center

PROJECT NUMBER: 1584-00003

OWNER: SEMCO Energy Gas Company

ARCHITECT/ENGINEER: Anderson, Eckstein & Westrick, Inc.

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated December 6, 2024, with amendments and additions noted below.

This Addendum consists of (16) total pages.

The following changes to and/or clarifications of the Contract Documents will be incorporated in said Contract Documents and such changes shall be allowed for in the price bid by the Contractor, such that the price indicated in the Proposal shall represent the conditions as set forth in the original Contract Documents as modified by this Addendum.

Acknowledgment of receipt of this Addendum and the Bidder's Acceptance of these revised conditions prior to submittal of the bid shall be indicated by adding the Addendum number in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

A. BIDDER QUESTIONS AND RESPONSE:

- 1. **Q:** What are the working hours?
 - A: Monday through Friday, 7:00am to 5:00pm. Saturday and Sunday with permission
- 2. **Q:** Where can a dumpster be placed?
 - A: Dumpster can be placed in parking lot south of building, located by proposed generator.
- 3. **Q:** Room finish schedule shows 3 Toilet rooms, 102, 107 & 114, all to have tile on all 4 walls, but elevations show only 2 wet walls to be tiled. Please clarify. Also, what about existing toilet rooms 116 & 117? They are not listed on room finish schedule, but there is an elevation showing 2 walls for room 117. Please clarify.
 - A: Refer to revised room finish schedule for selected walls to have tile up to 4'-0" in Toilet rooms. Interior Elevations 1 and 2 on A412 are referring to Toilet room 114, names have been revised. Toilet rooms 116 and 117 are not included in the scope of the project. The only work in Toilet Rooms 116 & 117 is replacing the floor as required for new sanitary lines, include allowance to match existing flooring.
- 4. **Q:** To what extent will floor tile need to be repaired in rooms 116 & 117? Is there attic stock tile to make repairs? Just infill where floor is R&R? Replace all floor tile?
 - A: The floor tile will be repaired and replaced as required for connection for new sanitary lines. It is unknown how much of the flooring will be affected. Include allowance to match existing flooring.
- 5. **Q:** No elevation for windows that require window tinting. Please provide size, and/or elevation.
 - A: Refer to Detail 2/A301 Building Section added dimensions to shows extent of windows that will require tinting. Tinting should extend from height of new ceiling (10'-0") to floor on all curtain walls on exterior of building.
- 6. Q: Please provide further information regarding the fire suppression system, the drawing was not included in bid set
 A: Refer to M011 for added Fire Protection Specification and added Reference A for existing fire suppression drawings, verify sprinkler heads in field.

- 7. **Q:** Please provide further information regarding the fire alarm system, the spec section is not included in the bid documents.
 - A: No specification is required since we are using the existing system. Refer to added Keyed Note 10 on E101.
- 8. **Q:** Please clarify the floor protection needed for the project.
 - A: Contractor is responsible for providing protection on all flooring when entering and exiting building.
- 9. **Q:** Please provide further clarification regarding the natural gas and electrical penetration needed for the generator.
 - A: Contractor to connect generator to natural gas and electrical as detailed on drawings and as required per manufacturer.
- 10. Q: Per Drawing E101 Note # 9 regarding the UPS system. Please provide the specifications, name brand, and item number from what the client is going to purchase so these will match.
 A: The UPS system is unknown at this time, provide allowance.
- 11. **Q:** Please provide the current fire alarm manufacturer in use.
 - A: Refer sheet E101, added New Work Key Note 10. Fire Alarm manufacturer is unknown at this time, provide allowance.
- 12. Q: Per page E101, please clarify fire devices for rooms 102/3/4/5, 107 and 111.
 A: Pefer to sheet E101 for revised fire devices needed
 - A: Refer to sheet E101 for revised fire devices needed.
- 13. Q: Per page A101, please clarify wall types for rooms 103/4/5, 108,109 and 111
 A: All walls not labeled are wall type A refer to partition type leagend
 - A: All walls not labeled are wall type A, refer to partition type legend.
- 14. Q: Per page A101, please further clarify wall type A1A: Wall type A1 should follow UL listed 2 Hour Rated U301.

B. DOCUMENT REVISIONS:

ARCHITECTURAL

- 1. SHEET A101: reissued
 - a. Partition moved 2" off existing curtain wall
 - b. Added UL Listing U301 for partition type A1
 - c. Added Gas Supervisor Office Callout 11/A511
 - d. Added Fatigue Room Call out 10/A511
- 2. SHEET A301: reissued
 - a. Partition moved 2" off existing curtain wall
 - b. Detail 2 added dimensions for window tint
- 3. SHEET A412: reissued
 - a. Toilet 109 revised to Toilet 107
 - b. Toilet 117 revised to Toilet 114
- 4. SHEET A511: reissued
 - a. Detail 3 partition moved 2" off existing curtain wall
 - b. Detail 4 partition moved 2" off existing curtain wall
 - c. Detail 10 added
 - d. Detail 11 added
- 5. SHEET A611: reissued
 - a. Revised Toilet room wall finishes

MECHANICAL

- a. SHEET M011: reissued
 - a. Added Fire Protection Specification

PLUMBING

- 1. SHEET P102: reissued
 - a. North arrow revised
 - b. Reducing valve spelling error

ELECTRICAL

- 1. SHEET E101
 - a. Added New Work Keyed Notes 10
 - b. Added Fire devices
- 2. SHEET E103: reissued
 - a. North arrow revised

SPECIFICATIONS

1. None

REFERANCES

1. REFERENCE A a. As built for Fire Suppression

C. SUBSTITUTIONS:

a. None requested

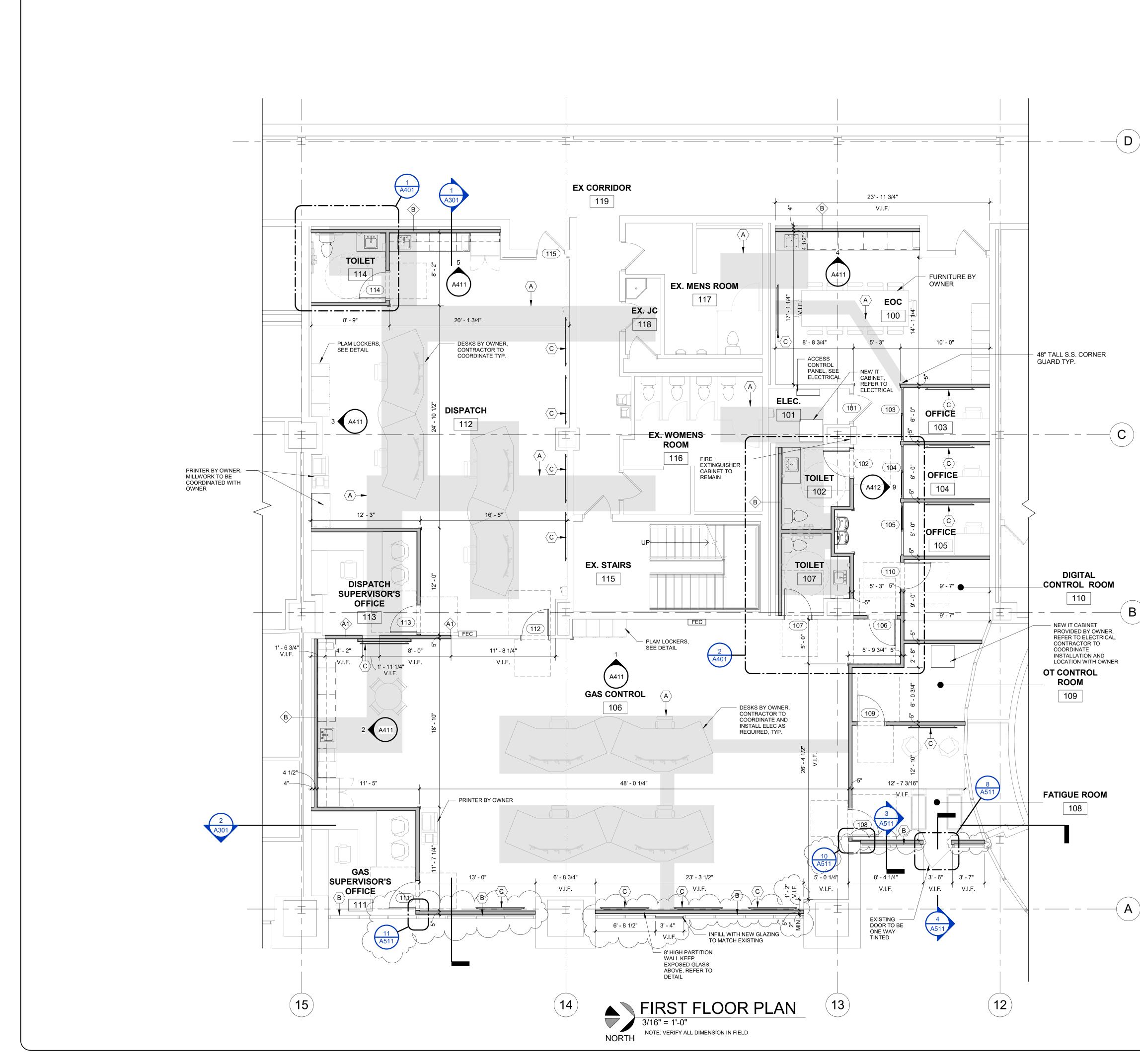
D. ATTACHMENTS:

- a. Pre-Bid Sign in Sheet
- b. A101 First Floor Plan
- c. A301 Building Sections
- d. A412 Interior Elevations
- e. A511 Section Details
- f. A611 Floor Finish Plan & Details
- g. M011 Mechanical Specification
- h. P102 North Arrow Revised
- i. E101 First Floor Power Plan
- j. E103 Electrical Site Plan
- k. Exhibit A Existing Fire Suppression A

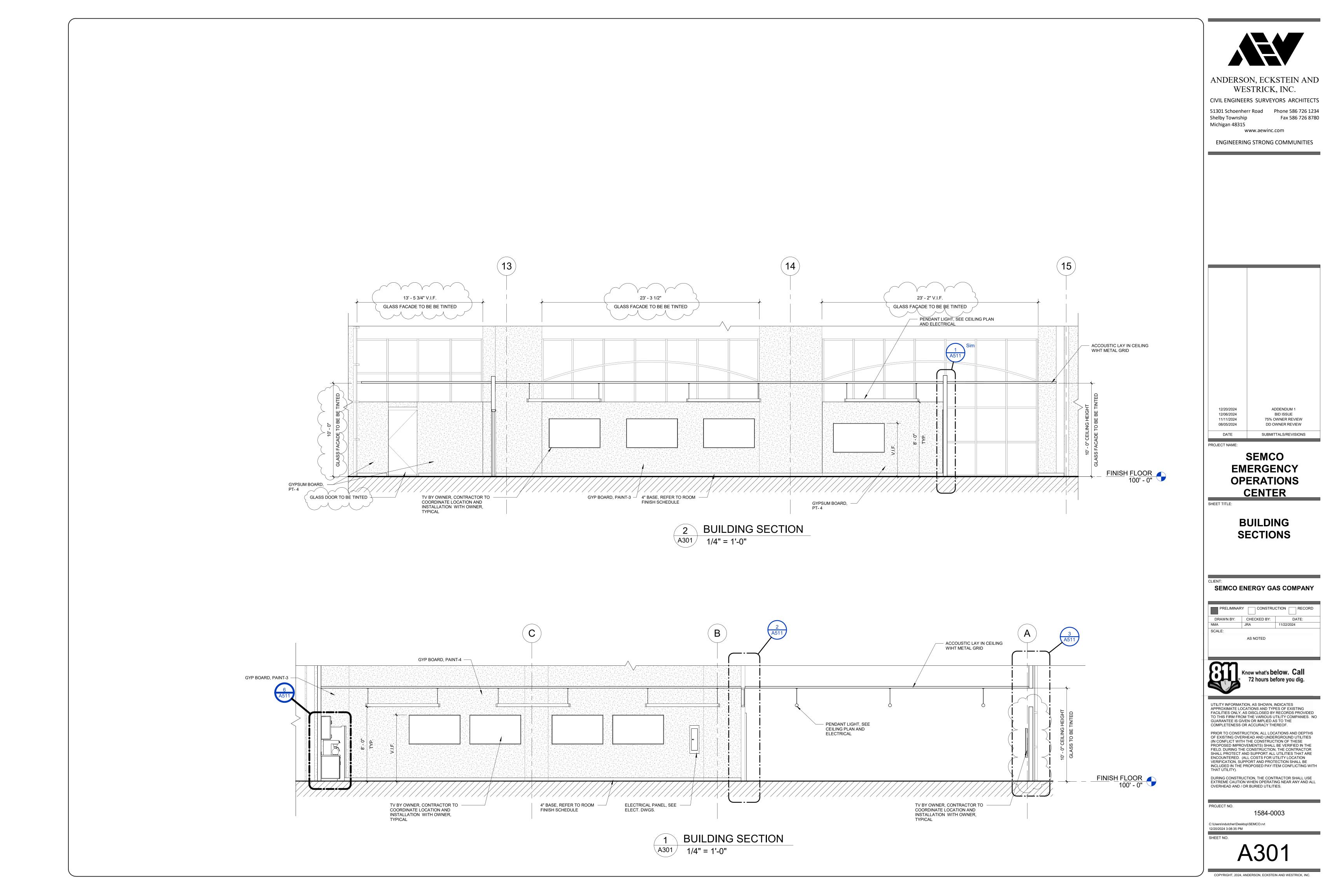
End of Addenda

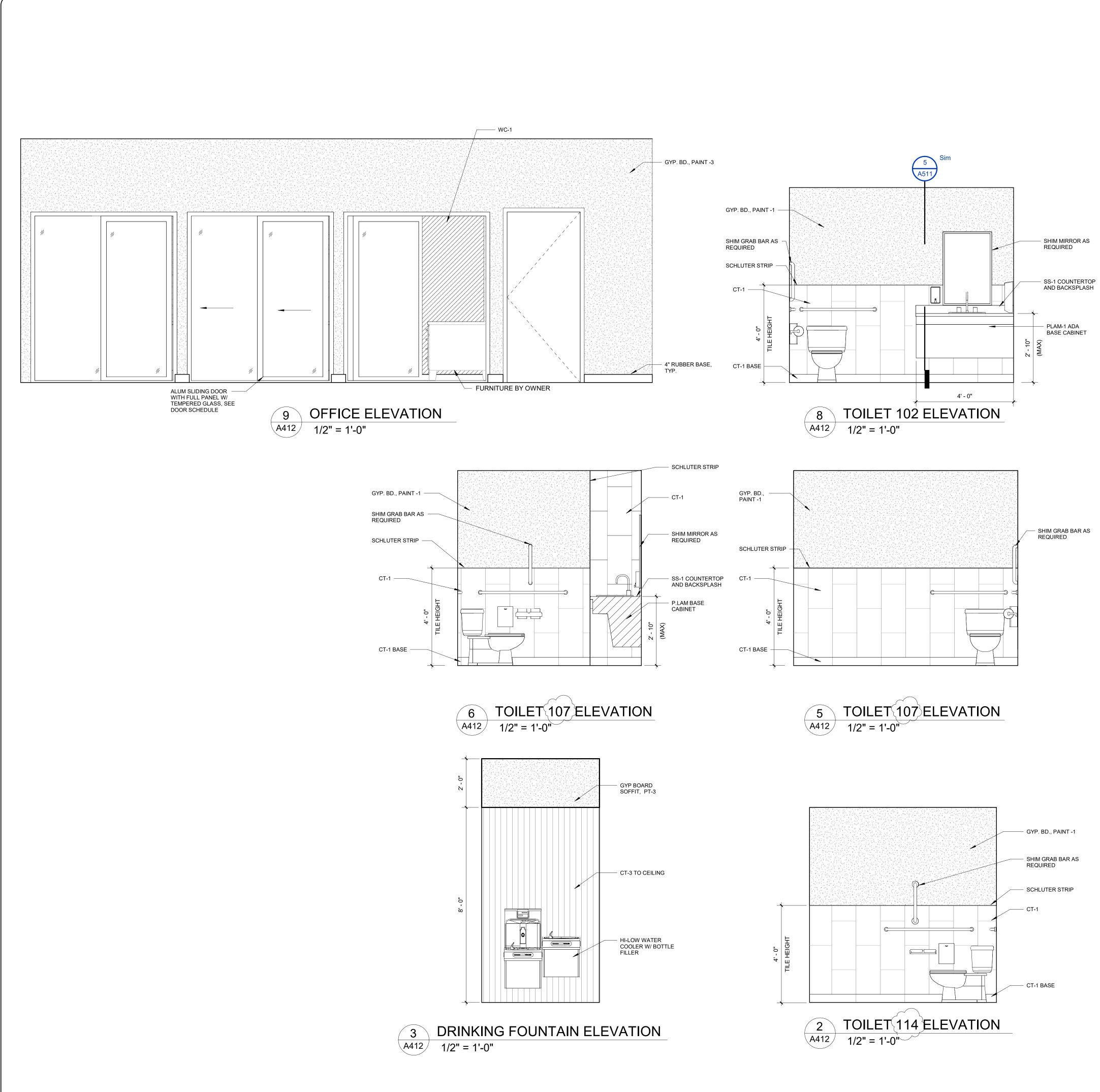
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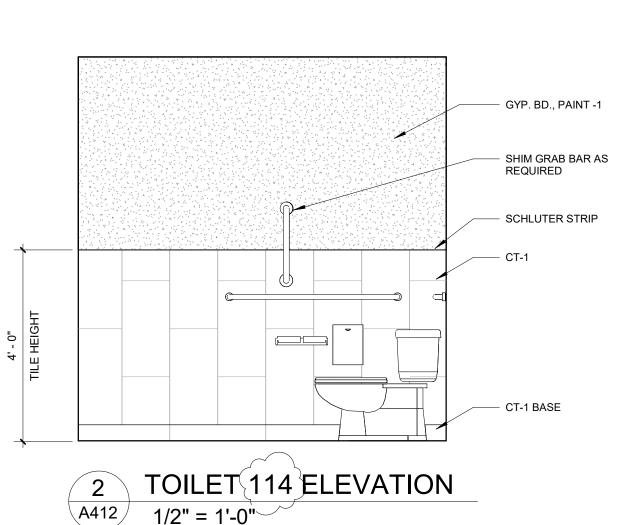
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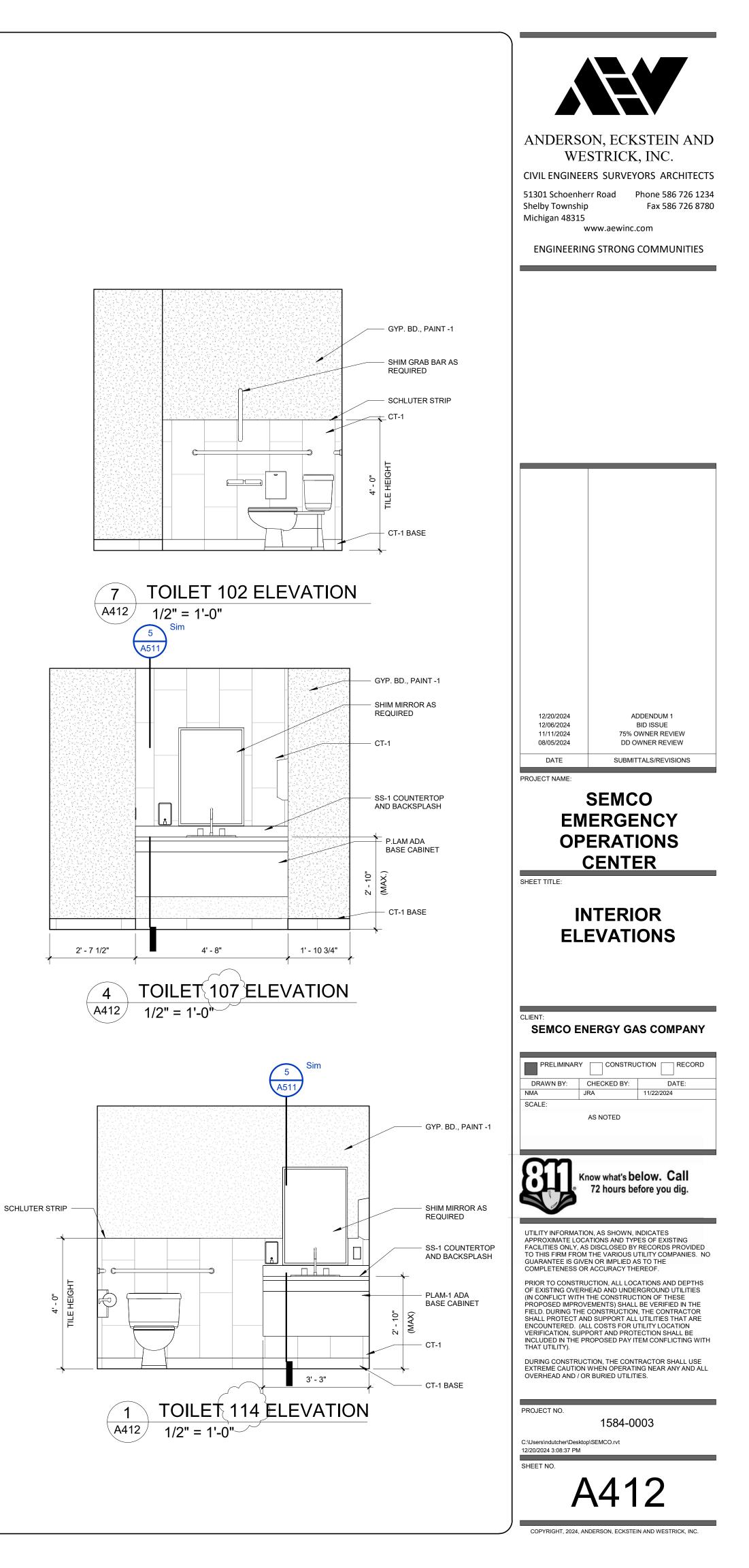


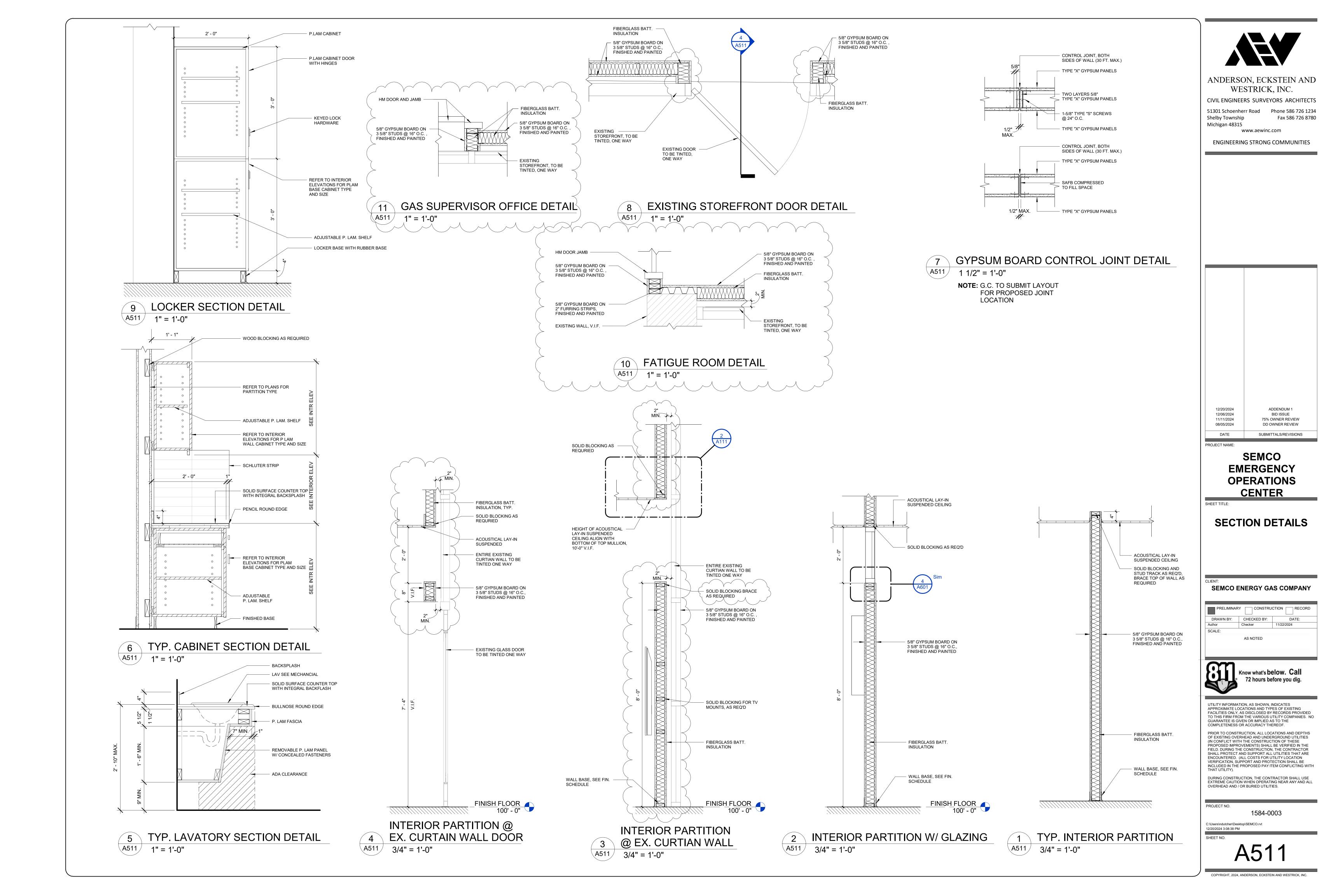
AREA OF WORK KEYPLAN N.T.S. NORTH	ANDERSON, ECKSTEIN AND VESTRICK, INC. CIVIL ENGINEERS SURVEYORS ARCHITECTS Sta01 Schoenherr Road Phone 586 726 1234 Shelby Township Fax 586 726 8780 Michigan 48315 www.aewinc.com SIGINEERING STRONG COMMUNITIES
	12/20/2024 ADDENDUM 1 12/20/2024 BDI ISSUE 12/20/2024 BDI ISSUE 11/11/2024 75% OWNER REVIEW 08/05/2024 DD OWNER REVIEW DATE SUBMITTALS/REVISIONS ROJECT NAME: SEMCOS SEMCS OPERATIONS
	CENTER SHEET TITLE: FIRST FLOOR PLAN CLIENT: SEMCO ENERGY GAS COMPANY PRELIMINARY CONSTRUCTION RECORD DRAWN BY: CHECKED BY: DATE:
A 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND 5/8" GWB BOTH SIDES PAINTED. (ALL WALLS TO BE TYPE "A" UNO) A1 RATED 1 HOUR 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND (2) 5/8" GWB TYP X BOTH SIDES PAINTED. (LERESTORY WINDOWS AT 8'-0" A.F.F. (UL LISTING 2 HR U301) B 3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND (2) 5/8" GWB	NMA JRA OCTOBER 2024 SCALE: AS NOTED SCALE: AS NOTED Image: Scale in the
 NEW 6° CONCRETE SLAB ON VAPOR BARRIER OVER 4° COMPACTED FILL, LOCATION TO BE COORDINATED WITH ELECTRICAL AND MECHANICAL NEW ONE WAY TINTED WINDOW FILM ON EXISTING INTERIOR SIDE OF GLASS Ty by ONWER, CONTRACTOR TO INSTALL AND COORDINATE WITH OWNER, PROVIDE WOOD BLOCKING AS REQUIRED 	FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY). DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES. PROJECT NO. 1584-0003 C:\Users\indutcher\Desktop\SEMCO.rvt 12/20/2024 3:08:34 PM SHEET NO. COPYRIGHT, 2024, ANDERSON, ECKSTEIN AND WESTRICK, INC.

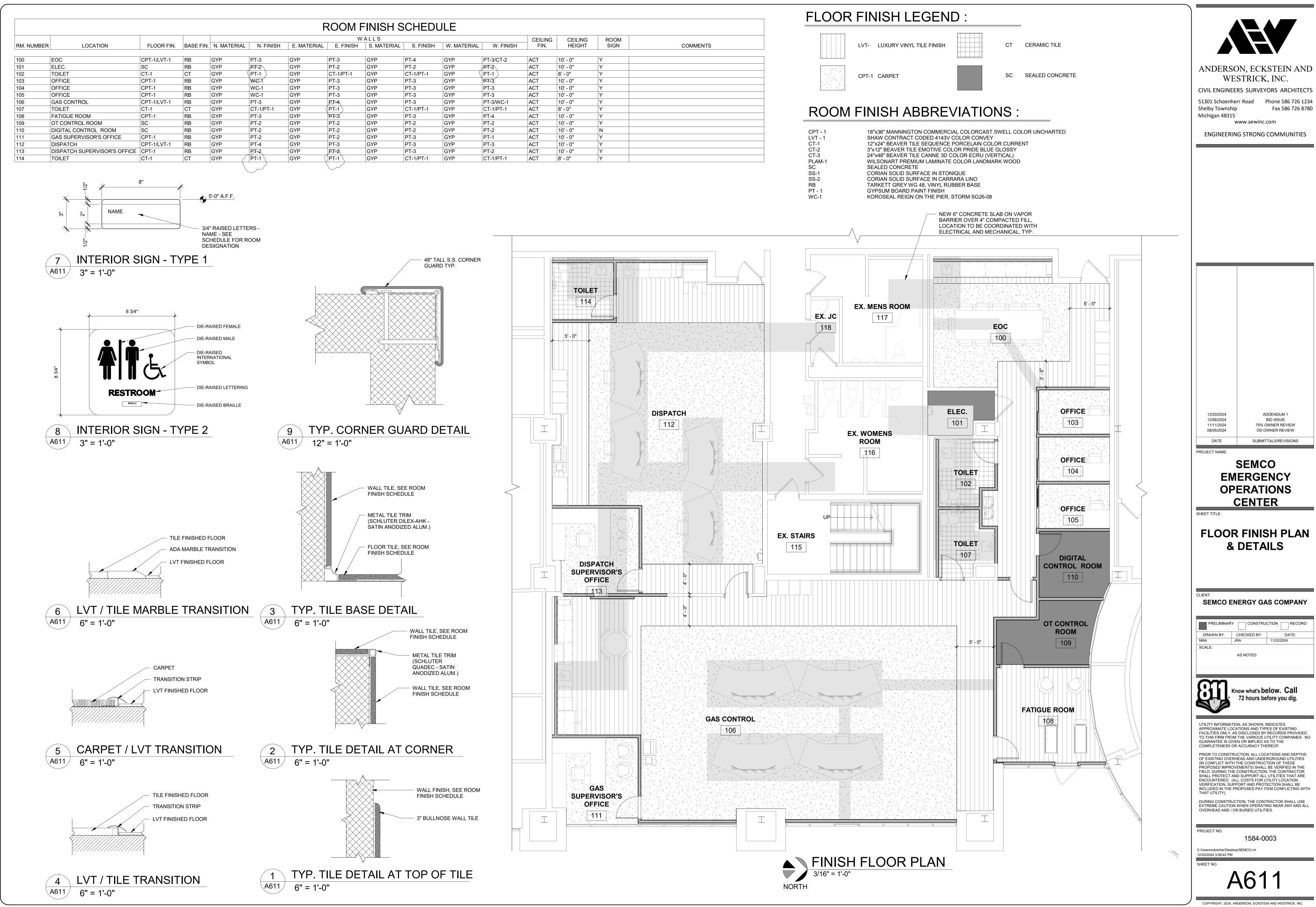




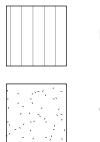








S. FINISH	W. MATERIAL	W. FINISH	CEILING FIN.	CEILING HEIGHT	ROOM SIGN	COMMENTS
PT-4	GYP	PT-3/CT-2	ACT	10' - 0"	Y	
PT-2	GYP	RT-2	ACT	10' - 0"	Y	
CT-1/PT-1	GYP {	PT-1 }	ACT	8' - 0"	Y	
PT-3	GYP	PT-3	ACT	10' - 0"	Y	
РТ-3	GYP	PT-3	ACT	10' - 0"	Y	
РТ-3	GYP	PT-3	ACT	10' - 0"	Y	
РТ-3	GYP	PT-3/WC-1	ACT	10' - 0"	Y	
CT-1/PT-1	GYP	CT-1/PT-1	ACT	8' - 0"	Y	
РТ-3	GYP	PT-4	ACT	10' - 0"	Y	
PT-2	GYP	PT-2	ACT	10' - 0"	Y	
РТ-2	GYP	PT-2	ACT	10' - 0"	N	
РТ-3	GYP	PT-1	ACT	10' - 0"	Y	
РТ-3	GYP	PT-3	ACT	10' - 0"	Y	
РТ-3	GYP	PT-2	ACT	10' - 0"	Y	
CT-1/PT-1	GYP	CT-1/PT-1	ACT	8' - 0"	Y	



CPT - 1	18"x36" MANI
LVT - 1	SHAW CONT
CT-1	12"x24" BEAV
CT-2	3"x12" BEAVE
CT-3	24"x48" BEAV
PLAM-1	WILSONART
SC	SEALED CON
SS-1	CORIAN SOL
SS-2	CORIAN SOL
RB	TARKETT GR
PT - 1	GYPSUM BO
WC-1	KOROSEAL F

MECHANICAL SPECIFICATIONS

GENERAL REQUIREMENTS:

Read and be bound by the architectural specifications.

These specifications, all other documents attached hereto, all addenda issued and the accompanying pl for the complete furnishing and installing of the entire mechanical system.

The work shall be done in accordance with best practice so as to contribute to efficiency of operation an shall be installed with proper accessibility. The materials and equipment, including all necessary access proper adjustment so that the component parts function together as a workable system. The mechanica equipment, materials and operations as indicated either on the drawings or contained herein or as may l either to accomplish complete mechanical systems.

GOVERNING AGENCIES:

The contractor shall be fully informed of all laws, ordinances and codes, and shall, in the performance of applicable Federal, State and Local aforesaid regulations. Any deviation from the plans or specifications necessary to meet code requirements shall be made by the contractor without extra cost to the owner. DAMAGE TO OTHER WORK:

Repair and pay for all damage done to the existing and new work by mechanical trades workmen. **CUTTING AND PATCHING:**

All cutting and patching required for installation shall be by mechanical trades and included in expense to CLEANING:

Premises shall be cleaned upon completion of mechanical work.

COOPERATION WITH OTHER TRADES:

Coordinate work with other trades to avoid interference and present a neat appearance. Interference wi coordination will not be considered as extra work. **INTERFERENCE:**

All minor deviations required due to interference with the work of others shall be made by mechanical co cost. Verify locations of existing piping, ducts and building structural beams in the project area for connection

possible interference.

DRAWINGS:

The design drawings show the general arrangement and extent of the work. The drawings are diagram to scale in certain areas for purposes of clarity and legibility. It is intended that all apparatus be located s architectural elements and be installed to avoid obstructions and preserve headroom. The contractor sh trades with his own work to avoid conflicts and interference's; he shall make use of all sources of data, in drawings of equipment furnished by others.

ACCESS TO EQUIPMENT

All control devices, equipment, dampers, etc., shall be so located so as to provide for each access of op maintenance; if concealed, access panels or extended operators shall be provided. SUPPORTS:

Provide all supports, framing, etc., for the proper installation of pipe, equipment. etc., fabricated from stru prevent sagging, vibration and strain, and to provide for expansion and contraction. SYSTEM BALANCING:

The heating, ventilating and air conditioning shall be tested and balanced to demonstrate that specified of parts of all systems as indicated in the contract documents can be met and all controls are functioning p **GUARANTEE:**

All material and workmanship shall be guaranteed for a period of one year from the date of acceptance, make good any defects within that period at no additional cost to the owner. PLUMBING

SANITARY AND VENT PIPING:

Pipe and Fittings, shall be plastic PVC: Type DWV, per; ASTM D2665. Joints shall be plastic PVC solvent welded, per; ASTM D2665.

CLEANOUTS AND ACCESS COVERS (CO):

Provide cleanouts at the foot or base of each vertical waste or soil stack, in drainage lines at all changes intervals having no changes in direction. bronze top, with flushing connection. Provide trap primer for all floor drains per code to maintain trap wa

FLOOR DRAIN (FD-1) Zurn No. Z-415-B floor drain, sized on drawings, "Dura-Coated" cast iron body, with polished bronze top

Provide trap primer for all floor drains per code to maintain trap water seal or Green Solution model SS2 GAS PIPING:

Standard weight schedule 40, ASTM 1-20 black steel pipe with class 150 screwed malleable iron fittings. GAS VALVE:

Gas valve shall be non-lubricated plug valves; ACF or Dezurik. Provide plug valves at all connections to equipment. DOMESTIC WATER PIPING:

Above ground: Type L, hard temper copper tube with wrought copper fittings and non-lead solder joints. DOMESTIC WATER VALVES:

A. Gate valve: Jenkins 901-A bronze ball valve, screwed ends, or approved equal. Balance valve: Dezurik 427S bronze or approved equal.

Thermostatic Mixing Valve - Line size, straight element, domestic water temperature, C. mixing valve. Provide stop check valve in cold and hot water inlet to valve. Provide the following for lavatories and hand sinks.

xing valve.	FIDVIDE Stop Check Val	ve in colu anu not wat	
	1	1.	Thermostatic mix ASSE 1017/ASS mixing valves ar
	1.	1.	Unit shall be size use requirement

DOMESTIC WATER PIPING OPTION:

Tubing:

Cross-linked polyethylene (PEX) manufactured by the Silane method.

Non-barrier type. Shall have a pressure and temperature rating of 160 PSI at 73 degree F, 100 PSI at 180 degree F and 80 PSI at 200 degree F. Tubing shall have a minimum of 6 months UV protection.

Manufactured in accordance with aTM F876 and ASTM F877 and tested for compliance by an independent third-party agency. Fittings:

Fittings shall be manufactured by Zurn PEX, Inc., identified by the letters "Q" or "Z". Manufactured in accordance with ASTM F1807 or ASTM F2159 and/or comply with ASTM F877 system standard as identified on the fitting.

Crimp Systems:

Qickclamp: Listed to ASTM F877, identified as a Zurn PEX Ind., Aickclamp by the "Qickclamp" and "Q" marking. Copper Crimp Ring: Listed to ASTM F1807 and/or ASTM F877, black in color and identified as a Zurn PEX Inc., ring by the letter "Q".

Tools:

Qickclamp tools shall be supplied by the PEX tubing manufacturer, identified by the name "urn" on the tool Copper Crimp Ring tools shall be supplied by the PEX tubing manufacturer or approved by the PEX tubing manufacturer for use.

Valves Shall be of the plastic or metal type, meeting the requirements of ASTM F877, identified as such with the appropriate mark on the product.

	FLUSHING AND STERILIZATION:					
plans are intended to provide	Upon completion of water distribution piping system and prior to being placed into service, the system, including fittings and pumps, shall be flushed and disinfected as follows:					
	A. System shall be flushed with water at maximum system pressure.					
nd minimum maintenance and ssories, shall be put into cal contractor shall provide all	B. Open all drains and fixture valves in the building, starting with the valve nearest the water service line and permit the water to run clear for ten (10) minutes.					
y be reasonably implied by	C. Disinfecting shall be accomplished by introducing liquid chlorine into the system.					
	D. The chlorination agent shall be applied at the beginning of the water main to be disinfected.					
of the contract, comply with all	PIPE INSULATION					
ns and any additional work	Insulation shall be low pressure molded section fibrous glass pipe insulated with factory-applied all service jacket. Fittings and valve bodies shall be insulated with fibrous glass blanket built-up to the thickness of the adjacent insulation and secured with insulating tape and jacketed to match insulation, or with molded fibrous glass fittings installed with both longitudinal and circumferential joints fully buttered with proper adhesive. Laps shall be fastened with outward clinching staples. All joints shall be properly lapped and sealed. Staples, hangers, etc., shall not penetrate vapor barrier. In lieu of built-up insulation on fittings, Zeston fitting covers may be used.					
	All insulation shall be Class A in accordance with ASTM standard No. E-84 NFPA No. 255, and UL standard No. 723 as follows:					
to aforementioned.	All material shall be manufactured by one of the listed approved manufacturer's instructions, except where these instructions conflict with the specification hereinafter stated, in which case the specifications shall govern. All adhesives, binds and other fastening materials and devices shall be supplied as required to properly install the insulation materials being furnished.					
	Approved Manufactures: Armstrong Co., Certain-Teed, Johns-Manville Co., Owens-Corning Fiberglas.					
ith regult from poor	Pipe Insulation Schedule:					
ith result from poor	Pipe insulation thickness shall comply with the minimum requirements of ASHRAE 90-75 and the following:					
	Pipe diameter 1" and less					
ontractor at no additional nections to same and to avoid	Service Domestic cold water .5"					
	Domestic hot water 1"					
imatic and may not be drawn	Under Sink/Lavatory Protective Pipe Cover					
symmetrical with hall review the plans of other including shop drawings and	ADA – conforming wheelchair accessible assemblies shall be covered with an under sink/lavatory protective pipe cover. Cover must allow for access to p-trap clean-out and angle stop valve.					
	PLUMBING FIXTURES					
	General					
peration, repairs and	Provide and connect all fixtures shown on the Drawings or herein called for. All fixtures shall be equal in all respects to the figure/model numbers hereinafter listed. Figure/model numbers are used for establishing a standard. All fixture trim shall be by one manufacturer only. No mixing of trim or fixtures will be permitted unless otherwise specified.					
ructural steel shapes and to	Fixture connection shall be chrome-plated flexible brass pipe. Plumbing fixture types and mounting will comply with Barrier Free Design Regulations where required.					
	Provide all traps, valves, stops, shut-off valves, tailpieces, fittings, and piping.					
conceition of the verieus	WATER CLOSETS- FLUSH TANK (WC)					
capacities of the various properly.	Avalanche GWS 31817 two-piece, floor mount elongated, dual feed siphon jet, 1.28 gpm closet and Z5955SS-EL white, open front toilet seat, less cover, with stainless steel check hinge. Provide 1/2" x 3/8" chrome plated brass loose key angle stops, escutcheon plate and supply.					
, and the contractor shall	LAVATORIES - COUNTER TOP (LAV)					
	Zurn Z5114.514.3.35.E7.L white vitreous china 20" x 17" drop-in lavatory with Z81000-XL-3M 0.5 gpm single control faucet, Z8743- PC grid drain; ZR361 p-trap, Z8804-XL-LRLK-PC loose key stop lavatory supply kit, trap wrap.					
	SINK (SK-1)					
	Elkey LRAD 252, 18-gauge, 304 stainless steel single bowl top mount sink with full undercoating. Bowl 25" x 22" x 9" deep. Provide LK 2432BHC deck mounted faucet, 8" centers, 4" levers, LK-35 drain left rear placement, Z8804-XL-LRLK-PC loose key supply kits, ZW3870XLT-4P, trap wrap.					
es in direction and at 100'-0"	SINK (SK-2)					
ater seal.	Elkey ECTSR15159, 18-gauge, 304 stainless steel double bowl top mount sink with full undercoating. Bowl #1 size 16 x 16 3/4"x 9", Provide LK 1000CR single lever faucet, LK-35 drain, Z8804- XL-LRLK-PC loose key supply kits, ZW3870XLT-4P, trap wrap.					
pp, with flushing connection.						
S2009V trap sealer.	GARBAGE DISPOSER					
	Food waste disposer(s) shall be In-Sink-Erator model 555ss, continuous feed, single direction, with 3/4 H.P. motor, corrosion protection shield, self-service wrench, stainless steel grinding elements with two stainless steel 360° swivel lugs. Warranty – 5-year					

protection shield, self-service wrench, stainless steel grinding elements with two stainless steel 360° swivel lugs. Warranty – 5-year

Elkey LZOOTL8WSK, stainless steel finish bottle filling station and bi-level with dual level hands free activation water cooler with

3000-gallon filter and 8 gph capacity. Unit to have automatic 20-second shut-off timer on bottle filler and Green Ticker bottle counter,

parts and in-home service.

ELECTRIC WATER COOLER- BOTTLE FILLER (EWC)

MLP200 in wall carrier, Z8804-XL-LRA supply and ZR365-PC p-trap.

ixing valve applied at individual plumbing fixture shall be SE 1016 certified, anti-scald, anti-chill. Mechanical are not acceptable.

ed for capacity and temperature range to satisfy project

1. Leonard Model 220, Model TA. Symmons Thermixer. Sparco Aquamix.

FIRE PROTECTION Furnish, design and install on a NFPA No. 13, a complete automatic sprinkler system, hydraulic design throughout the premises in accordance with the following requirements. Extend existing wet pipe and sprinkler heads down to the new dropped as required in the renovated areas. Field verify extent of work. The fire protection system under these specifications shall be installed in strict accordance with the rules and regulations of the insurance underwriter's, the local fire rating inspection bureau, and the regional, civic or state departments having jurisdiction. The contractor shall, at his own expense, obtain all necessary permits and licenses and comply with all local and state laws, ordinances and regulations, and the local building code. The contractor shall be responsible for a complete sprinkler system to satisfy all governing authorities and shall submit drawings as_

needed or required. As a minimum, drawings shall outline all ceiling grid, ductwork, lights and other obstructions to show proper installation of all sprinkler work. No work shall be installed until all drawings have been approved.

Before proceeding with any installation work, this contractor shall forward sets of engineered sprinkler plans for the premises to the architect, submission shall be four (4) sets of blue line prints. Drawings shall include:

Reflected ceiling plan with sprinkler head locations dimensioned at a minimum scale of 1/8" + 1'-0"

Automatic sprinkler details

Specifications

Building section showing height of piping system

Then prior to proceeding with any installation work, this contractor shall forward a set of reproducible engineered sprinkler plans for the premises to the architect, noting any changes. Such plans shall bear the written approval of landlord's fire insurance underwriter and the fire marshal or other governing agency.

Sprinkler system shall be tested at water pressure of 200 PSIG for a period of two (2) hours or as required by local codes, if greater: System shall have all facilities for proper drainage and any necessary test valves, orifices or equipment required.

Upon completion of the system, and on possession of premises, this contractor shall submit a written certificate to the architect from the underwriter, stating that the system was inspected and approved.

Provide a two-year written guarantee for sprinkler work.

Piping material shall be schedule 40 black steel pipe, ASTM A120 or A53.

Provide all valves indicated on contract documents and/or necessary for proper operation and drainage of the system. All valves shall be underwriters approved for the service intended. Provide tamper switch for all gate valves in fire protection system.

Provide and install all hangers of approved type and size to support all pipes in a substantial manner. Hangers for overhead piping_ shall comply with the regulations of the NFPA as to size and spacing.

All threaded connections shall be compatible with those of the local fire department and approved by the local fire department serving the project.

Drain valves, test valves, control valves and alarm valves shall be fitted with approved enameled tags indicating their use.

Above ground piping: Provide capped nipples at the ends of cross mains and mains to facilitate flushing of system. Nipples shall be same diameter as pipe, but not larger than two inches (2").

SPRINKLER HEADS

Heads in locations without ceiling: Upright or pendent type as required. Manufacturer: Provide one of the following: a. Grinnell Corp. "Universal Model A".

> b. Star Sprinkler Prod. c. Other approved.

Sidewall installation;

"Automatic" horizontal sidewall sprinklers, model "F" complete with type "B" short wall plate. Bright chrome finish trim and sprinkler.

Provide six (6) spare sprinkler heads of each type to owner. Also include special wrenches for removing and installation of all type sprinkler heads. SHEET METAL - GENERAL

Install ductwork in adherence to ceiling height schedules on architectural drawings. Coordinate and establish necessary space requirements with other trades so as to maintain required headroom.

Vary run and shape of ducts and make offsets during progress of work, if required, to meet structural or other interferences without extra cost to the owner.

All sheet metal shall be best grade, prime sheets, open hearth galvanized steel, unless otherwise noted. Ducts 19" and over shall be cross broken or beaded.

DUCTWORK:

Duct construction: All ductwork shall be constructed and supported in accordance with the requirements of the latest SMACNA'S issue of "2" W.C. Pressure Construction Standards" Provide joints for rectangular ducts as called for by standards. "Button Punch-Snap Lock" shall not be used. Seal all transverse joints with 3M EC-800 compound and tape with 3M 474 tape.

For round and oval duct, slip joints shall be used on ducts up to 36-inch diameter. Apply 3M EC-800 sealer to fittings and connectors while assembling. Secure joint with sheetmetal screws. Apply sealer over outside of joints and screws. Apply 3M 474 tape to wet joint. Alternate method of sealing with slip joints is with thermofit plastic bands. Secure joint with sheetmetal screws. Install band a shrink per manufacturer's recommendations. Use on ducts up to 36 inches in diameter.

Flexible Ductwork: All flexible ductwork shall be type 3, insulated, as manufactured by Flexmaster Corporation. The ducts shall be constructed of corrosion-resistant reinforcing wire Helix, permanently bonded and enclosed in Tedlar film and factory pre-insulated with 1 1/2", 3/4 pounds of density fiberglass blanket insulation sheathed in a vapor barrier of aluminum metalized polyester film laminated to glass mech. elastomer back coated. The duct shall comply with the latest NFPA bulletin 90A, and be listed as class 1 air duct material, UL standard 181. Maximum lengths of flexible ductwork shall be 6' - 0" to each connection.

All round take-offs downstream of terminal units shall be made with spin-in collar fitting as manufactured by Flexmaster Corporation. Balancing dampers shall be locking wing-nut for easy readjustment when required. The entire assembly shall be constructed of a minimum 26 gauge galvanized steel.

DUCT HANGERS AND SUPPORTS:

All duct hangers, supports and spacing for round and rectangular ductwork shall conform to the latest SMACNA standards, unless otherwise indicated.

GRILLES AND REGISTERS

(CD-1) Ceiling Diffuser Price ASPD, 24" X 24" module, steel, lay-in. See dwg. for neck size (NK).

(LD-1) Linear Diffuser Price TBDI3, 2- 3/4" slots x 48" long. See dwgs. for neck size. Provide center notch for diffusers that are centered on ceiling T-Bar.

(SR-2) Supply Register. Price 510D, ¾" blade spacing, adjustable, double def. with volume damper. See dwg. for neck size.

(RG) Return Grille Price 10 perforated face, T-bar Lay-in. See dwg. for neck (NK).

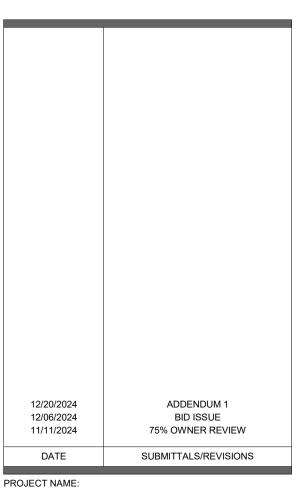
(ER) Exhaust Register, Price 10A, perforated face with volume damper. See dwg. for neck (NK).

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ENGINEERING STRONG COMMUNITIES



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MECHANICAL SPECIFICAITON

SEMCO ENERGY GAS COMPANY

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UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY)

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

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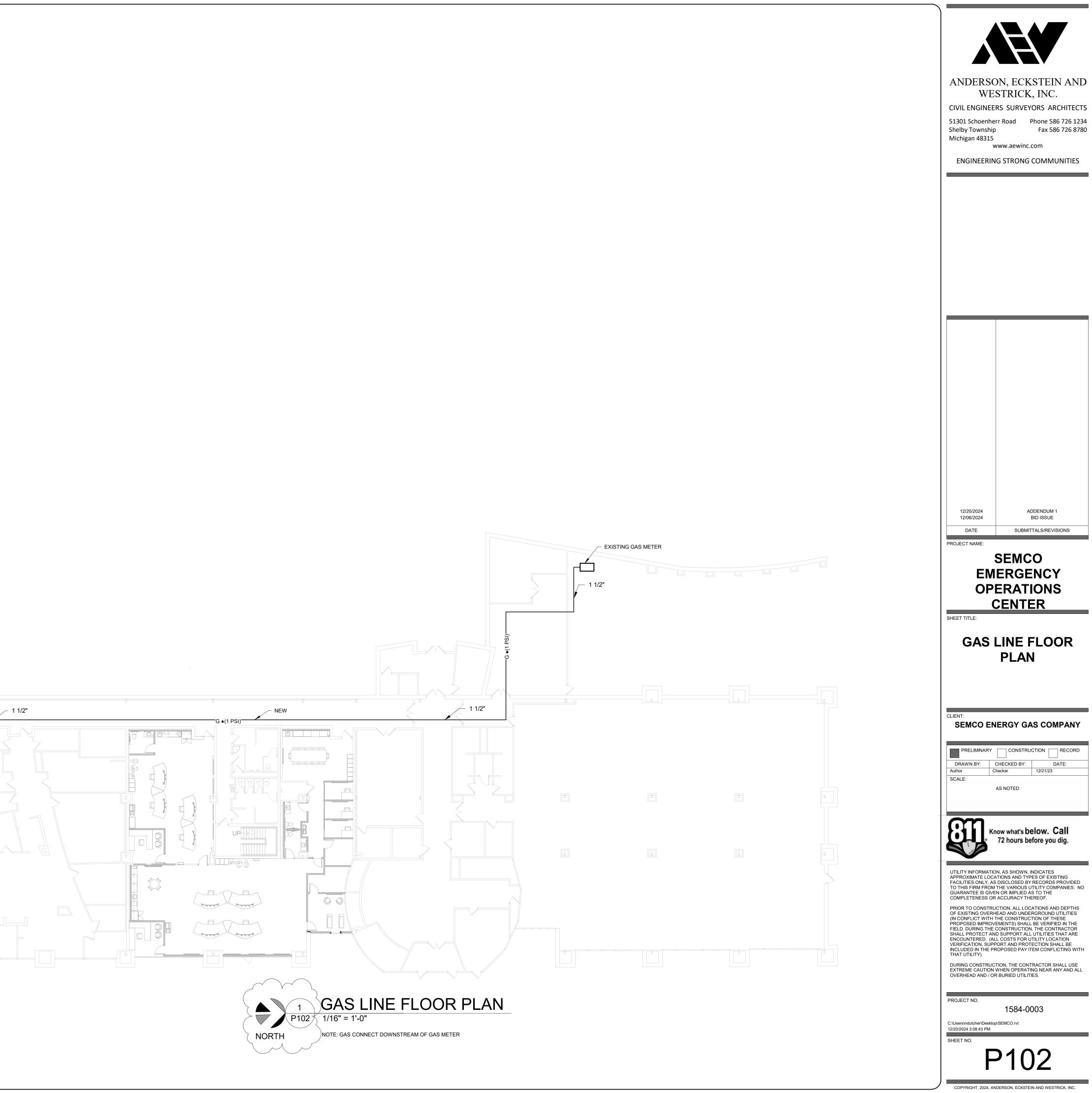
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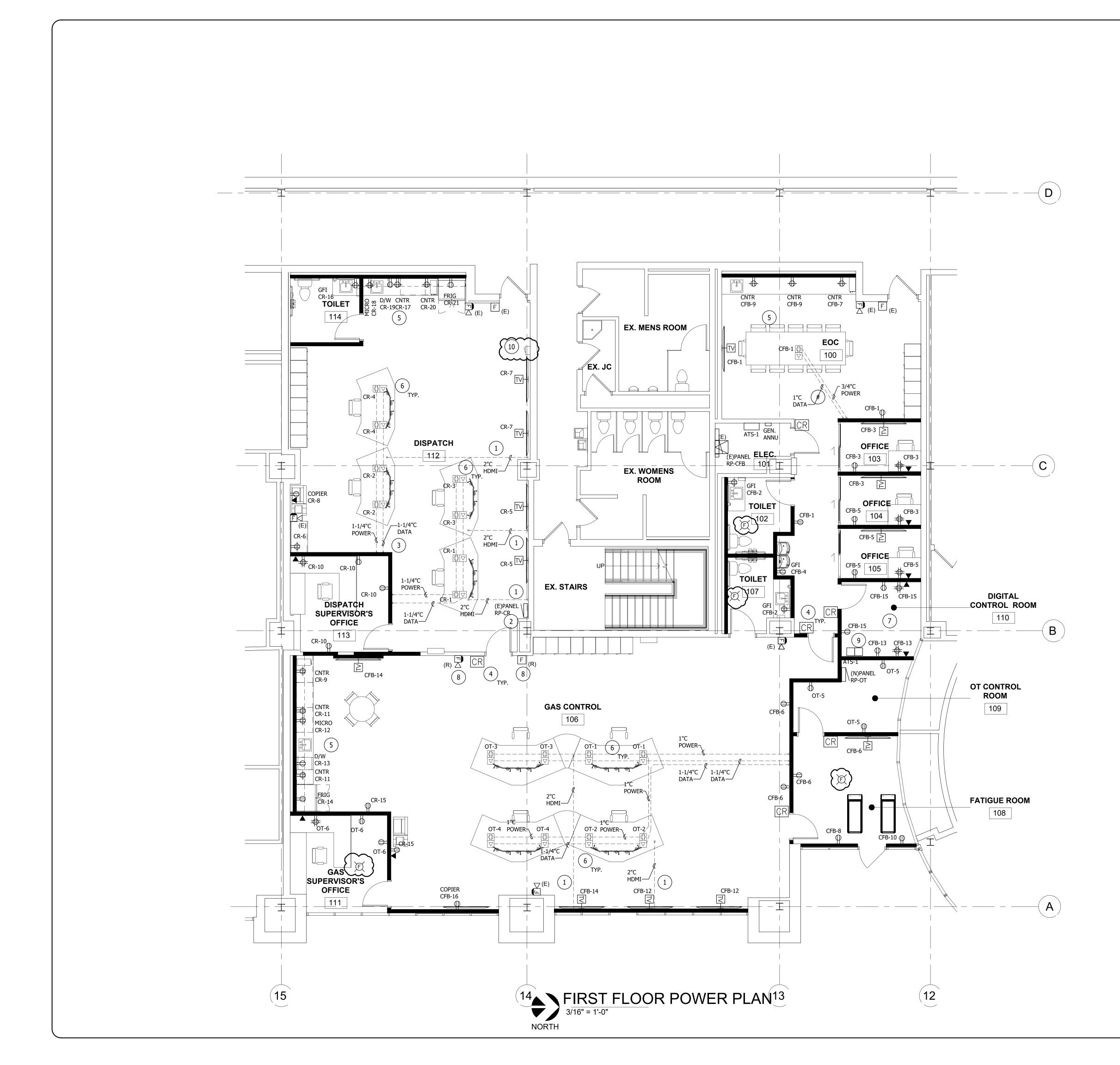
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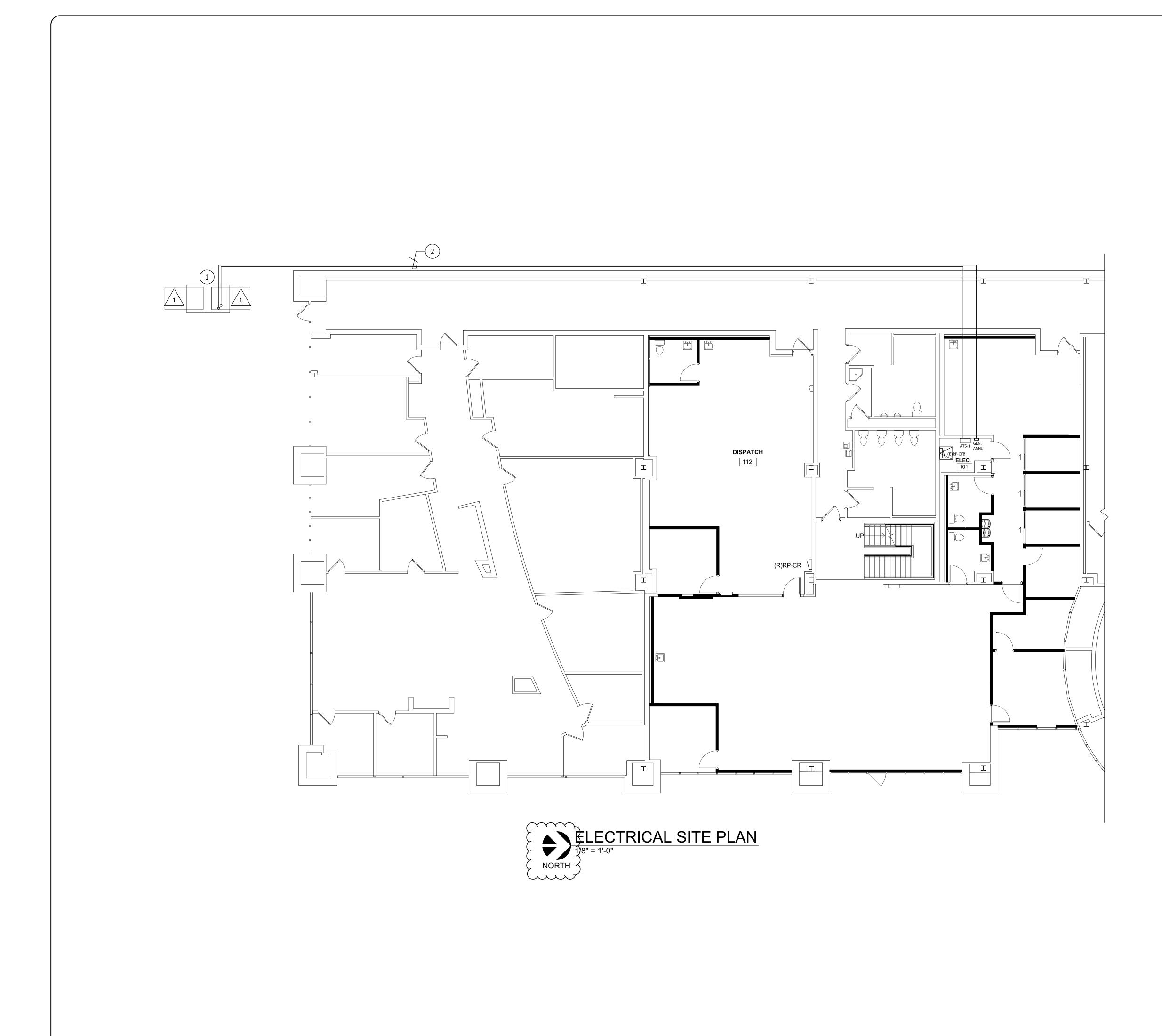
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UNDERGROUND GAS LINE -NEW GENERATOR GAS — FUEL RATE - 446 CFH @ 100% PROVIDE GAS PRESSURE -REDUCING VALVE IN GAS LINE TO REDUCE GAS PRESSURE FROM 1 PSI TO





	ELECTRICAL GENERAL NOTES			
A	THESE DRAWINGS ARE DIAGRAMMAITC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.		WES	N, ECKSTEIN AND STRICK, INC. s surveyors architects
В	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.		51301 Schoenherr Shelby Township Michigan 48315 ww	Road Phone 586 726 1234 Fax 586 726 8780 ww.aewinc.com
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.		ENGINEERING	STRONG COMMUNITIES
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.			
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.			
G H	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" C ONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALEDNEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.			
#	NEW WORK KEYED NOTES			
1	2" UNDERGROUND CONDUIT WITH PULL STRING FOR HDMI CABLE CONNECTION. STUB UP 6" OM DESK END AND 4FT ON TV SIDE. COORDINATE EXACT LOCATIONS IN THE FIELD WITH DATA CONTRACTOR.			
2	NEW LOCATION OF EXISTING PANEL RP-CR, REFER TO ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.			
3	STUB UP DATA CONDUIT TO 6" ABOVE CEILING. POWER CONDUIT TO RUN TO NEXT JUNCTION BOX ABOVE CEILING AND CONNECT TO CIRCUIT SHOWN.			
4	ACCESS CONTROL/CARD READER LOCATION, REFER TO DETAIL ON SHEET E200. COORDINATE ALL WORK WITH ACCESS DOOR SUPPLIER. NEW READERS TO BE CONNECTED TO EXISTING SYSTEM. PROVIDE POWER SUPPLY AS REQUIRED. COORDIANTE ALL WORK AND PROGRAMING WITH OWNER.			
5	ALL RECEPTACLES AT KITCHENETTE AREA SHALL BE GFIC TYPE OR GFIC PROTECTED. ALL RECEPTACLES SHALL BE ACCCESSIBLE PER CODE. FLOOR BOXES SHALL BE COMBINATION POWER AND DATA TYPE. PROVIDE 2			
6	GANG BOXES SHALL BE COMBINATION POWER AND DATA TYPE. PROVIDE 2 GANG BOXES COMPLETE WITH 20A RECEPTACLES, AND COVER PLATES. DATA OUTLETS AND DATA WIRING SHALL BE PROVIDED BY DATA CONTRACTOR. CAT # "LEGRAND 800 SERIES OR EQUAL".			
7	VERIFY EXACT MOUNTING HEIGHT OF ALL OUTLETS IN THIS ROOM WITH IT CONTRACTOR PRIOT YO ROUGH-IN.			
8	EXISTING FIRE ALARM DEVICE TO BE RELOCATED TO THIS WALL, REFER TO DEMOLITION PLAN FOR ORIGINAL LOCATION. PROPOSED LOCATION OF (2) 20KVA UPS SYSTEMS. ONE 20KVA UPS TO BE	-		
9	PROVIDED BY OWNER, OTHER TO BE PROVIDED BY ELECTRICAL CONTRACTOR. CONTRACTOR TO PROVIDE ALL CONNECTIONS. NEW UPS SHALL MATCH EXISTING		12/20/2024 12/06/2024 DATE	ADDENDUM #1 BID ISSUE SUBMITTALS/REVISIONS
10	TO BE LISED FOR CONFECTION OF ADDITIONAL STROBE DEVICES IN DOOMS			
~~~~	TO BE USED FOR CONECTION OF ADDITIONAL STROBE DEVICES IN ROOMS 102,107,108 AND 111. NEW DEVICES SHALL MATCH COLOR OF EXISTING DEVICES.	3	EMI OPE	SEMCO ERGENCY ERATIONS ENTER
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# ELECTRICAL GENERAL NOTES

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# DEMOLITION KEYED NOTES

EXISTING CONDENSING UNIT BEING REMOVED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR TO MAKE SAFE, DISCONNECT AND REMOVE CONDUIT AND WIRING BACK TO PANEL PP-CR IN DISPATCH ROOM 112.

# # NEW WORK KEYED NOTES 1 New generator to be installed in place of condensing units being removed. Provide New Pad, conduit and wiring as detailed in one-line diagram sheet e300 and detail sheet e200. coordinate exact routing in the field. 2 Possible routing for power and data conduits from New generator location to ats and remote annunciator.



# ANDERSON, ECKSTEIN AND WESTRICK, INC.

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