ATTACHMENT TEM-2

RECC

NEW HEADQUARTERS

50% Package
Outline Specifications

COOPERATIVE BUILDING SOLUTIONS

M+H ARCHITECTS

SSC Engineering, Inc.
18207 Edison Avenue • Chesterfield, MO 63005

PITMAN GREEN LLC
ENGINEERING | CONSULTING | SURVEYING | INVESTIGATIONS

March 6th, 2026

Division 1: General Requirements

Project Description

A. This project is for a new Headquarters Facility for Taylor County RECC . The new buildings on the site consist of a new single story Office, a renovation and addition onto their existing Operations building, a new Maintenance building, and a Covered Storage building located in Campbellsville, KY. (Total building footprint square footage = 65,300 SF)

Building designs are based upon the 50% drawings dated 3/6/2026, as drawn by Pitman Green (Civil), M+H Architects (Architectural), & SSC Engineering (Structural, MEP and Fire Protection.

B. Building Systems Overview

1) Office HQ (20,800 SF): Concrete perimeter trench and spread column footings, concrete slab on grade w/ perimeter rigid insulation, conventional steel column and beam framing, exterior light gauge stud framing w/ modular brick veneer. Roofing is prefinished standing metal seam over 2-layers of rigid roof insulation on 1 ½" metal roof decking. Protected throughout with an automatic sprinkler system.
    a. Hardened Area: Concrete perimeter wall footings supporting loadbearing, solid grouted CMU walls with a concrete slab on metal deck lid supported by structural steel beams. Design to accommodate a 250 mph wind load, but does not meet all ICC 500 requirements.
2) Operations Building Renovation and Addition (36,700 SF): Existing building is a combination of PEMB with wall panel and brick veneer cladding. This area will have minor renovations to the existing office space (10,000 SF) with the large open office area being converted to enclosed vehicle storage (17,000 SF). New Warehouse addition (9,900 SF) to be concrete perimeter trench and spread column footings around the perimeter of the building w/ 8" concrete curb. Concrete slab on grade, pre-engineered metal building frames and purlins, PEMB prefinished ribbed wall panels, metal roofing w/ vinyl faced blanket insulation. The office / storage areas and meter testing / work areas within the warehouse area will be topped with a storage mezzanine (concrete slab over metal deck on steel structure) accessible by a set of 3' wide metal stairs. A sliding gate will be included for fork truck lifting access. (see drawings for extents) The remaining office space will remain un-sprinklered while the vehicle storage and warehouse addition will be protected throughout with an automatic sprinkler system.
3) Maintenance Building (7,800 SF): Same construction as Warehouse addition at the Ops Building. The interior office portion will have a storage mezzanine (concrete slab over metal deck on CMU structure) accessible by a set of 3' wide metal stairs. A sliding gate will be included for fork truck lifting access. (see drawings for extents). The Wash Bays & Shop Bays will include heating, ventilation and exhaust to be designed for intended use of the space. Trench drains will be included in the Wash Bays and Shop Bays with a grease/oil

interceptor. (Similar to the Vehicle Storage). Protected throughout with an automatic sprinkler system.

C. Building Code:

i. The following building codes adopted by the State of Kentucky includes but is not limited to the following:

1. 2018 Kentucky Building Code (Based on 2015 IBC)
2. 2015 IECC
3. ICC A177.1 Accessible And Usable Buildings And Facilities

ii. The current design is assuming a Rick Category III, type II-B construction facility, with a hardened control center & server room.

See Divisions 21-26 for MEP/FP system information.

Architectural and Engineering

A. Construction documents shall be prepared by professional architects and engineers registered by the State.

B. These documents shall be adequate for the purpose of obtaining building permits and construction for the project.

E. Geotechnical subsurface investigations will be required in new building areas. Design recommendations pursuant to the soil conditions at the sites are contained in their report and shall be followed.

Permits & Fees

A. The cost of obtaining the necessary Building Permits and fees shall be included in the General Contractor's bid(s).

B. The General Contractor and its subcontractors will maintain licenses required by the governing jurisdiction.

Supervision & Scheduling

A. Supervision shall be provided by a full time, on-site field superintendent and a project manager in the office.

B. The General Contractor shall maintain a bar chart progress schedule and hold monthly meetings with the Owner and design team to review the progress of the project.

Testing and Inspections

A. Code required construction testing to be provided by Owner under separate contract.

1. Testing will include geotechnical, concrete, masonry, steel, and asphalt.

B. Results of all tests and inspections will be provided to Owner, General Contractor, Architect, Engineers, and local Building Official upon receipt.

Temporary Services

A. The following temporary services for construction shall be provided for the project:

1. Electric
2. Water
3. Sanitary Facilities
4. Erosion Control
5. Project Signage
6. Job Trailer
7. Trash Removal & Cleaning

Permanent Services

A. The following permanent utility services will be provided, including all connection/tap fees:

1. Electric
2. Water
3. Communications
4. Sanitary Sewer

Warranties

B. Contractor shall warrant all materials and labor for a period of one (1) year from the date of occupancy unless such warranty is superseded by a specific manufacturer's warranty.

Division 3: Concrete

Foundations

A. Concrete foundations will be designed and installed to support the loads imposed by the structure.

B. Concrete foundations will obtain a minimum compressive strength of 4,500 psi in 28 days.

C. Reinforcing steel shall have a minimum yield strength or 60,000 psi per ASTM.

D. Exterior footings will be founded per local code. Anticipated frost depth is 24 inches. Footings at PEMB will be thicker for wind uplift. See proposed footing sizes on structural plans. Frost depth to be verified with Geotechnical Report.

E. Continuous trench footings will be required around the perimeter of each building between footings. See proposed with on Structural Plans.

F. Interior CMU walls will require a continuous trench footing (2 ft wide by 1 ft deep). See structural plans.

G. Interior columns will receive isolated spread footings (preliminary sizes shown on plan).

H. Concrete tie beams will be required between the PEMB columns. See structural plans.

I. Subgrade material should be treated below all foundations in accordance with geotechnical recommendations.

Cast in Place Concrete

A. Concrete floor slabs shall be a minimum of 4" thick at Office areas, 5" thick at IT and storage areas, and 7" thick at Warehouse, Maintenance, and Covered Storage areas, reinforced with welded wire mesh. Place slab on a 15 mil vapor barrier over a minimum of 4" of properly compacted engineered fill in the Office areas and 6" of compacted fill in IT Rooms, Storage Rooms, and the Warehouse/Maintenance/Covered Storage areas. All sub base material shall be compacted according to Geotechnical report. Concrete compressive strength will be 4,500 psi in 28 days. Control joints shall be provided in accordance with American Concrete Institute Standards. The interior warehouse floor slabs shall achieve a minimum local FF of 40 and a minimum local FL of 28. The interior office floor slabs shall achieve a minimum local FF of 20 and a minimum local FL of 15.

B. All exposed interior concrete slabs shall be sealed with Ashford formula sealer, or approved equal.

C. All interior floor joints in warehouse and vehicle areas shall be filled with epoxy caulk Metzger-McQuire MM-80, or approved equal.

D. Floor design shall be in accordance with the recommendations of the geotechnical subsurface investigation including below slab drainage system.

E. Provide 4" concrete housekeeping pads at all lockers, electric transformers, mechanical units, water heaters, etc. and 12" isolated housekeeping pad at generators.

F. Mezzanines to have reinforced, 3" cast-in-place concrete over 2" metal deck (total thickness of 5"). Locations indicated on plan.

G. Wash bay to have a cast-in-place floor pit with removable galvanized metal grate. Assume 2 foot wide by 35 foot long by 2 foot deep.

H. Floor slab design to include provisions for raised access flooring in the Sever Room, Dispatch, War Room and Kitchenette in the hardened construction area of the Office HQ.

Division 4: Masonry

Unit Masonry

A. Concrete masonry units shall conform to ASTM Specifications. Minimum compressive strength of masonry to be 2500 psi.

B. Masonry walls shall be braced or reinforced as necessary in accordance with the governing building codes.

C. Exterior concrete masonry units shall be sealed with silane water repellant. Use Baracade Silane 40 IPA by Euclid Chemical Company, or approved equal.

D. All cells with reinforcing shall be grouted solid.

E. Load bearing interior partitions shall have #5 vertical bars at 16" on center, standard ladder reinforcing at 16" on center, and bond beams with #5 bars as the top course of the wall and at 10'-0" on center, unless noted otherwise in structural drawings.

F. Exterior CMU walls shall have #5 vertical bars at 16" on center, standard ladder reinforcing at 16" on center, and bond beams with #5 bars as the top course of the wall and at 10'-0" on center, unless noted otherwise in structural drawings. Exterior concrete masonry units shall be sealed with silane water repellant. Use Baracade Silane 40 IPA by Euclid Chemical Company or approved equal.

G. Hardened Area CMU walls shall be solid grouted and have #5 vertical bars at 8" on center, standard ladder reinforcing at 16" on center, and bond beams with #5 bars at the top course of the wall and at 10'-0" on center.

Division 5: Metals

Structural Steel

A. Structural system throughout the Warehouse, Maintenance, and Covered Storage Buildings will be pre-engineered metal building framing with necessary clearspan frames, purlins, and bracing.

B. Structural system at the Office and Warehouse mezzanines will be conventional structural steel framing at the roof.

C. All wide flange shapes to be A992 Grade 50 (Fy = 50 ksi). Structural tubes shall be A500 Grade B (Fy=46 ksi). All other shapes to be Grade A36 (Fy=36 ksi).

Metal Deck

A. Office roof deck will be 1 1/2", twenty (20) gage, type "B", Galvanized.

B. Mezzanine decks will be 2" composite floor deck, twenty (20) gage.

Bollards

A. Galvanized steel, concrete filled pipe bollards with external plastic cover will be installed at all drive-in overhead door openings, electrical panels, sprinkler risers, and PEMB exterior corners, and as indicated on the drawings.

Miscellaneous Metals

A. All handrail and safety railing will be provided in order to conform to the all applicable building codes.

B. Painted galvanized loose steel lintels shall be provided at masonry openings.

C. Steel ladders shall be provided for access to all mezzanines, as indicated on the drawings.

D. Concrete filled steel pan stairs shall be provided for access to mezzanines, as indicated on the drawings.

Cold-Formed Metal Framing

A. Engineering responsibility for exterior/interior wall stud framing and light gage metal roof trusses shall be by the fabricator, shall conform to indicated design loads, and shall include structural analysis data signed and sealed by the qualified Professional Engineer responsible for their preparation.

B. Manufacturer's standard C-shaped steel studs, punched with stiffened flanges, 6" minimum depth, & 16 gage (0.0556 inch) minimum base metal thickness.

C. Install cold formed metal framing according to AISI's "Standard for Cold-Formed Steel Framing – General Provisions", and to manufacturer's written instructions unless more stringent requirements are indicated.

Division 6: Wood & Plastics

Rough Carpentry

A. Wood blocking used at roofs, or in contact with concrete or masonry shall be pressure treated.

B. Provide interior wood furring and blocking as required for attachment of other construction.

C. For items of dimension lumber size, provide Mixed Southern Pine, Construction or No. 2 grade lumber with 19% maximum moisture content.

Finish Carpentry

A. Casework and misc. trim shall be fabricated and installed in accordance with AWI Quality Standards "Premium Grade".

B. Casework and countertops shall be plastic laminate. Some countertops will be quartz. See drawings for locations.

C. Lavatory counters and reception desk transaction counter shall be solid surface. See drawings for locations.

D. Window stools shall be bullnosed solid surface.

Gypsum Sheathing

A. Wall sheathing applied to cold-formed metal framing shall be 5/8" thick Glass Mat Gypsum Sheathing Board with factory-applied air and water membrane. Use "Securrock ExoAir 430 Panel" by USG & Tremco, or approved equal.

Division 7: Thermal & Moisture Protection

Insulation

A. Perimeter foundations and floor slabs in Office areas shall be insulated with 2" Type II rigid expanded-polystyrene board insulation (R-10) extending 4'-0" horizontally.

B. Exterior stud wall framing shall be insulated with R-35 min. spray applied closed cell polyurethane foam insulation w/ min. density of 2.0 lb/cu.ft. Provide product compliant thermal / ignition barrier where insulation is not covered w/ gypsum board.

C. 2 layers poly-iso insulation roof insulation (R-34.8 min.) will be provided and installed in accordance with the manufacturer recommendations.

D. Warehouse, Maintenance, and Vehicle Storage areas shall be insulated w/ PEMB vinyl faced insulation.

E. Interior stud partitions shall receive 3" sound attenuation blankets in stud space extending full height of wall.

Roofing, Flashing and Trim

A. Prefinished galvanized sheet metal steel roofing. Basis of design is Englert S2000 system. Finish shall be high-performance, 2 coat organic fluoropolymer coating with 20 year manufacturer's warranty. Color to be dark bronze.

B. The roof system shall include a 2-year materials and labor warranty from the manufacturer covering components of the roof panel assemblies that fail in materials or workmanship.

C. All roof areas with standing seam metal roofing shall be protected with continuous 36" wide, self-adhering, bituthene ice and water shield.

D. Flashing and counter flashing for roofs, coping, gutters, downspouts and misc sheet metal trim shall be fabricated from the same material as the metal roofing panels and completed in accordance with SMACNA. 22 gage shall be the minimum thickness for sheet metal trim and flashings. Tall fascias at canopies shall be 20 gage minimum.

E. Provide interlocking prefinished, 24 gauge sheet steel, V-groove profile, 'wood look', metal soffit panels at all roof overhangs. Panels will be a combination of vented and non-vented panels based on the venting calculations.

Sealants

F. Exterior vertical control and expansion joints in Masonry, storefronts, windows, frames of doors, etc. equal to Tremco 240.

G. Exterior horizontal traffic joints such as paving and sidewalk expansion joints equal to Tremco Vulkem 245.

H. Exterior joints under thresholds and saddles equal to Tremco Butyl Sealant.

I. Interior joints equal to Tremco Temflex 834.

J. Interior joints at plumbing fixtures equal to Tremsil 600 White.

K. Acoustic joint sealants at sound partitions equal to Pecora AC-20.

L. Fire rated sealant assemblies as required at rated construction.

Division 8: Doors & Windows

Metal Doors & Frames

A. Exterior metal doors shall be galvanized steel, insulated hollow metal.

B. Interior metal doors shall be steel honeycomb core hollow metal. Glass vision panels and sidelights to be provided where shown.

C. Exterior doors and pairs of interior doors shall have 14 gauge metal frames. Single interior doors shall have 16 gauge metal frames. Frames and doors shall be fire-rated as necessary.

Wood Doors

A. Interior wood doors shall be 5-ply, premium factory finish, solid core, Grade A book matched hardwood veneer. Door edges shall match face veneer. Veneer species to be selected by Architect. Doors shall be fire rated as necessary.

Overhead Sectional Doors

A. Motor operated overhead sectional doors capable of operating for not less than 10,000 cycles shall be installed.

B. Doors shall be 16'w. x 16'h, unless noted otherwise on drawings. Overhead Door Corp. - Thermacore Model 592, Basis of Design. Inside Facing Material: Zinc-coated (galvanized) steel sheet, minimum 0.022 inch thick (26 gage). (Calculated R-value = 17.66, U value = .057)

C. All overhead doors to have high then follow roof slope lift track and perimeter weather-stripping, uno on drawings.

D. Vision panels (4) shall be installed in each overhead door.

Entrance Doors and Storefronts

A. Glass and aluminum storefront are included at Office areas as shown. Thermally broken aluminum frames shall be used. Use Kawneer Tri-Fab 451T, or approved equal. Glazing to be 1" insulated glazing.

B. Entrance swing doors shall be medium stile, 1 ¾" overall thickness, 0.125" minimum extruded aluminum tubular rail and stile members.

C. Aluminum finish shall be Class I Dark Bronze color anodic coating complying with AAMA 611.

D. Interior Storefront: CR Laurence Series 487 Office Partition System, with integrated, swinging doors or equal with ¼" glazing. See plans for locations at conference rooms.

Glass and Glazing

A. Interior glass shall be annealed float glass, Class 1 clear, Quality Q3.

B. Exterior glass will be annealed and fully tempered, tinted, 1" insulated glazing with Low-E coating. Minimum thickness of each lite shall be ¼" with ½" air space.

Bullet Resistant Glass System

A. Baffle system consisting of prefabricated bullet resistant panels with secure air passage through the baffle window transaction point as required for voice transmission. Base of design TSS Baffle Bandit Barrier.

1. Glazing: Bullet Resistant Level 3; 1 1/4" LP 1250 Laminated

2. Deal tray: Bullet Resistant Recessed Brushed Stainless Steel, minimum 18 gauge stainless steel 304, with a No. 4 finish.

B. Provide TSS Total Armor Bullet-Resistant Fiberglass panels at areas below and around BR glazing. See drawings for locations.

Division 9: Finishes

Gypsum Drywall

A. All partition walls and soffits, unless shown as demountable or masonry, shall consist of minimum 3 5/8" metal studs and runners with 5/8" gypsum drywall (multiple layers where required for fire rating). Drywall shall be screw-attached to steel framing and furring, with Level 4 joint treatment. All components of interior walls shall extend from finish floor to bottom chord of roof trusses.

B. Use moisture and mold resistant drywall at all toilet/shower rooms, janitor closets, and walls with plumbing fixtures such as sinks and electric water coolers.

Flooring

A. Refer to finish floor plan for types and locations of flooring, and finish notes. Installation shall include all required floor preparation, leveling, etc…

B. Carpeting shall be commercial grade material, directly adhered to the slab.

C. Resilient flooring and base shall be installed in accordance with manufacturer's written instructions.

D. Ceramic tile shall be installed in thinset application. Floor tile shall be installed on liquid applied crack suppression membrane. Grout shall be TEC Accucolor XT or approved equal. All rooms indicated to receive ceramic tile shall also receive coved ceramic tile base.

Acoustical Tile Ceiling

A. The ceilings will be 2' x 4' x 3/4" acoustical tile in a white heavy duty 15/16" metal suspension system. Use Armstrong Optima Second Look, or approved equal.

B. Ceiling suspension systems shall be seismically braced for Seismic Design Category C.

Painting 7

A. All interior drywall partitions shall be painted with one (1) coat of latex primer and two (2) coats of latex finish.

B. Pipe bollards/guardrails, exterior and interior PEMB columns, exterior hollow metal doors and frames, exposed steel lintels, and other miscellaneous exposed steel shall

receive one (1) coat of DTM primer and two (2) coats of industrial urethane alkyd finish paint.

C. The interior face of CMU walls will be painted, with one (1) heavy coat of block filler and two (2) coats latex finish.

D. Drywall partition walls in toilet rooms and janitor closets shall be painted with one (1) coat of primer and two (2) coats of water-based epoxy finish paint.

F. Interior metal doors and frames, steel railings, access doors, etc… to receive one (1) coat of DTM primer and two (2) coats of alkyd finish paint

Division 10: Specialties

Toilet Accessories

A. Typical restroom accessories shall include:

1. Stainless steel tissue holder per toilet stall
2. Stainless steel grab bars for each handicap shower and toilet stall
3. Lighted mirror above each lavatory
4. Automatic paper towel dispenser/waste receptacle at each lavatory.
5. Automatic hand soap dispenser at each lavatory.
6. Sanitary napkin dispenser & disposals in Women's and gender neutral toilet rooms.
7. Stainless steel curtain rod, curtain rings, and curtain for each shower stall
8. Folding shower seat for each handicap stall.

Toilet Partitions

A. Toilet compartments and urinal screens in all restrooms shall be standard-privacy, floor anchored/overhead braced, with a baked enamel finish.

Signage

A. ABS plastic signs with Braille shall be provided for each interior door. Office doors signs shall have changeable insert windows.

Fire Protection Specialties

A. Provide semi-recessed fire extinguisher cabinets with extinguishers at the following locations:
   1) At corridors inside each exit door – multipurpose dry-chemical type
   2) In each break room or kitchenette – wet-chemical type

B. Provide multi-purpose bracket mounted fire extinguishers at the following locations:
   1) In each mechanical equipment room or mezzanine – multipurpose dry-chemical type

2) In all electrical rooms or closets containing an electrical panel – clean agent type

Metal Lockers

A. Gear Lockers: Indicated on drawings in vehicle storage of Ops building.
   1) Basis of design GearGrid 24"x24"x72" Standard wall-mounted lockers with secure door and GearGrid 24"x24"x72" Tubular Frame Wall lockers

Operable Panel Partitions

A. Provide 10' h. manually operated paired panel folding wall system, with expandable ends, 2" bottom seal, fabric covered panels and min. acoustical rating of 54 STC. Base of Design: Kwik Wall, or approved equal.

Raised Access Flooring

A. Access floor system as shown on drawings at office HQ at 12" high. Base of Design system: Tate Access Floors, Inc. ConCore® 1250 access floor panel supported by a bolted stringer understructure system.

Division 11: Equipment

Bank Equipment

A. Provide equipment for transactions at the Service Desks:
   1. Teller Pedestal – Korden KS-101
      a. Accessories include lockable cash drawer.

B. Provide equipment for transactions at the Drive-Thru:
   1. Drive-thru window
      a. 3'x6' bullet resistant (lvl. 1) window with privacy one-way glass
   2. Deal drawer – Fortis 750TD
      a. Bullet resistant (lvl. 1)
      b. Audio system
      c. Built in heater
   3. Teller Pedstal – Korden TP-108
   4. After hours drop box – Fortis ENV-8

Maintenance Equipment

A. Provide equipment as shown on the drawings.

Loading Dock Equipment

B. Electrically operated standard duty Dock Leveler: Equal to McGuire HP68 Series, 55,000 lbs. 12 month initial maintenance service agreement included. Provide laminated dock bumpers.

C. Truck Restraint: Equal to McGuire TPR automatic restraint.

D. Dock Seal: Foam seal with adjustable head pad: McGuire Series TS500 or equal.

E. Safety Guard: Floor mounted swinging dock gate at loading dock door for 9' wide opening: Vestil Mfg. SDG-9 or equal.

Division 12: Furnishing

Division 13: Special Construction

Pre-Engineered Metal Building Systems

A. Provide pre-engineered metal building frame, metal roof panels, accessories and miscellaneous materials for a complete enclosure including supports for building components specified in other sections.
   1. Design structural systems according to professionally recognized methods and standards and legally adopted building under supervision of professional engineer licensed in the jurisdiction of the Project.

B. The Warehouse, Covered Storage, and Maintenance Buildings shall be pre-engineered metal buildings. The building shall be designed using portal frames at the interior bays. Bracing is acceptable at exterior bays provided that the bracing does not interfere with any wall openings. The roof structure of the buildings shall be designed for a 5 psf collateral load at the Warehouse and Covered Storage and 7 psf at the Maintenance Building, all with the exception of concentrated loads required for hanging of mechanical equipment. Assume a 2000 lb concentrated load located anywhere along the span of the frame. The buildings will be fully sprinklered except the Covered Storage.

C. The horizontal deflection must be limited to H/200 due to adjacent buildings. Bay spacing shall be as shown on drawings.

D. Manufacturers: provide products by one of the following or equivalent manuf:
   1. VP Buildings; a BlueScope Buildings, North America, Inc. (Basis of Design)
   2. Ceco Building Systems; Division of NCI Building Systems, L.P.
   3. Nucor Building Systems.
   4. Butler Manufacturing Company; a BlueScope Steel company.

E. Roof Panels: Equal to VP SSR roof panels with Galvalume finish. 24 gauge, 24" coverage, 3" rib height, UL 90 wind uplift. Thermal blocks at structure.

F. Wall Panels: Equal to VP Panel Rib Wall. 26 gage galvanized steel, with KXL coating with 70% Kynar 500 finish; 36 inch wide net coverage, with 1-1/4 inch high major ribs at 12 inches on center with minor ribs spaced between the major ribs.

G. Liner Panels (where indicated on drawings): Panel Rib Liner Panels: 36 inch wide net coverage, with 1-3/16 inch high major ribs with minor ribs spaced between the major ribs.

1. Material: Galvanized steel, with G90/Z275 coating.
2. Thickness: 28 gage
3. Provide liner panel wainscot to 8 feet nominal.

H. Insulation: Glass fiber, with factory laminated facing material.

1. Roof insulation: VP Thermalift insulation - R-value: 25 with R-11 liner system
2. Wall Insulation: VP Simple Saver vinyl faced insulation; R-value: 25 continuous insulation

I. Eave Gutters: Roll-formed 26 gage steel sheet, with gutter straps, fasteners and joint sealant. Downspouts: 4 by 5 inches in 10 foot lengths, with downspout elbows and downspout straps.

J. Fuel Island: Provide a complete system with all components required for operation of the system.

1. Fuel island canopy to be 20' wide x 40' long with (2) structural supports with (6) LED lights.
2. Clear height of 17'-0".
3. Fascia height to be 3'-0"
4. Roof panels to be 20 ga. min.
5. Downspouts piped to daylight at ends of island to positive drainage away from pumps.
6. Concrete curb pump island to be 5' wide min. x 25' long min..
8. (1) 6,000 gal. double wall above or below ground gasoline tank (Verify size and above or below grade w-Owner).
9. (1) 8,000 gal. double wall above or below ground diesel tank (Verify size and above or below grade w-Owner).
10. Pressurized fuel pump system. (2) Pumps, one per tank, double-sided with card reader activation and tracking system on each side.
11. Concrete pad and footing below fuel tanks, designed to meet structural load capacity of tanks with fuel. Concrete pad size to be 5'-0" min. larger than tanks on all sides.
12. Emergency fuel shut off switch.
13. DEF fluid dispensing system with built-in heater at pumps.

Division 21: Fire Protection

A. Codes & Standards:

1. 2018 Kentucky Building Code
2. 2012 International Fire Code
3. NFPA 13 – 2013 Edition
4. NFPA 20 – 2013 Edition
5. NFPA 24 – 2013 Edition
6. NFPA 2001 – 2015 Edition

B. Utility Services
    1. Each building shall be provided with a single 6-inch fire protection service entry. The cement lined ductile iron service entry shall be provided from a point 5 feet outside the building line.
    2. The new Office building shall have a new wet-pipe sprinkler system.
    3. The Warehouse addition is expected to include storage at or below 12ft. Warehouse addition shall be protected by a wet-pipe sprinkler system. The attached covered storage shall be protected by a dry-pipe sprinkler system.
        i. Incoming fire water service for this building is anticipated to enter into the warehouse addition.
    4. Enclosed Vehicle Storage areas shall have a new dry-pipe sprinkler system that is fed from the new fire water service entrance in the Warehouse addition.
    5. The Maintenance Shop building, and all covered storage areas shall have a new dry-pipe sprinkler system.
    6. Fire hydrant flow test data will be required for the site to be within 12 months of permit submittal, in accordance with NFPA 13.
        i. A fire hydrant flow test has been conducted. A fire pump and water storage tank is not expected at this time.

C. System Types
    1. Wet-pipe sprinkler systems are anticipated for areas of the building which are kept above 40 degrees Fahrenheit.
    2. Dry-pipe sprinkler systems are anticipated for enclosed vehicles, maintenance, outdoor storage areas, and other areas that are not reliably kept above 40 degrees Fahrenheit.
    3. A clean-agent system is anticipated for the server room.
    4. A pre-action system is not anticipated for the building. Final decision wil be per the AHJ.

D. Hazard Criteria and Hydraulic Calculations
    1. Sprinkler spacing and pipe sizing will be designed for Light Hazard occupancy, 0.10 gpm/ft^2 over the remote 1500 ft^2 area in all public / common areas and other light hazard areas as outlined in NFPA 13, with pipe sizing based on contractor provided hydraulic calculations.
    2. The mechanical and electrical equipment areas, and other ordinary hazard areas as listed under Group 1 in NFPA 13 will be designed for Ordinary Hazard Group 1, 0.15 gpm/ft^2 over the most remote 1500 ft^2 area with pipe sizing based on contractor-provided hydraulic calculations.
    3. The warehouse will be designed for Ordinary Hazard Group 2, 0.20 gpm/ft^2 over the most remote 1500 ft^2 area with pipe sizing based on contractor-provided hydraulic calculations. At this time storage is anticipated to be self-restricted to 12-feet in height for Class I-IV commodities, and up to 5-feet in height for plastics.
    4. The fire sprinkler contractor is to perform and provide hydraulic calculations in

accordance with NFPA 13.

E. Fire Standpipe System
    1. A standpipe system is not required or provided for this facility.
F. Materials
    1. Pipe for wet-pipe and dry-pipe fire sprinkler systems shall be Schedule 40 black steel for pipes 2" in diameter and smaller and shall be Schedule 10 black steel for pipes greater than 2" in diameter. Fittings may be threaded, welded, or grooved. Mechanical push-type fittings are not permitted.
    2. All components and equipment used shall be UL Listed and/or FM Approved.
G. Sprinklers
    1. Sprinklers in ceilings shall be white, recessed type with a minimum k-factor of 5.6.
    2. Sprinklers within cloud ceilings shall be white, concealed type with a minimum k-factor of 5.6.
    3. Sprinklers in areas with exposed structure shall be upright type with brass finish with a minimum k-factor of 5.6.
    4. Sprinklers shall be located in the center of ceiling tiles.
    5. All sprinklers in light-hazard areas shall be quick-response.

Division 22 - Plumbing

Plumbing Piping and Specifications

A. The plumbing systems will be designed to meet the following codes:

1. 2018 Kentucky State Building Code
2. 2020 Kentucky State Plumbing Code
3. 2015 Kentucky State Mechanical Code
4. 2012 Kentucky State Energy Conservation Code
5. 2014 Kentucky State Storm Shelter Code
6. All work shall be installed in accordance with applicable codes, ordinances, and Authorities Having Jurisdiction. The Plumbing contractor shall be licensed by the necessary AHJ and provide all necessary labor, materials, equipment, and tools to install a complete Plumbing system. The Contactor shall secure and pay for all necessary permits and inspections required by the AHJs for installation of their equipment. The contractor shall comply with applicable OSHA and other safety regulations and standards.

A. Existing Maintenance Building
    a. Building to be removed
B. New Maintenance Building
    a. Provide new water and sanitary sewer for new building requirements.
C. Existing Operation Building
    a. Replace plumbing items.
D. New addition to operation building
    a. Extend existing water to new addition.
    b. Provide new sanitary sewer for new addition.
E. New Office Building
    a. Provide new water and sanitary sewer.

b. A single tap to the city main, water meter and backflow preventer for domestic water service will be provide on-site, refer to Civil design write up. Provide a domestic water main to with-in the building with shut-off valve.
c. Project includes sanitary sewer and underground sanitary piping 5' from building. (Civil engineering design extends the piping from 5' outside the building).

F. Plumbing materials shall be as follows:
a. All domestic water piping will be copper.
b. All sanitary waste and vent piping and fittings will be schedule 40 soiled wall polyvinyl chloride (PVC) plastic DWV pipe except vents in ceiling plenums will be no-hub service weight cast iron or DWV copper.

G. The following piping shall be insulated:
a. All domestic cold water piping
b. All domestic hot water piping
c. All hot water circulating lines
d. Lavatory exposed hot water supply and drain piping to be ADA compliant

H. Valves shall be installed on each main and each branch off the mains. Each piece of equipment, fixture or fixture group and all other items requiring water supply will be separately valved. All valves will be located to be easily accessible.

Plumbing Fixtures

A. The following plumbing fixtures are included. (Refer to architectural floor plan for quantity of fixtures.):

1. Water closets will be wall mounted with electronic sensor flush valves (hard wired to building electric).
2. Urinals will have electronic sensor flush valves (hard wired to building electric).
3. Lavatories will include electronic faucets (hard wired to building electric).
4. Sinks will have single lever faucets with 8" swing spout.
5. Garbage disposals at kitchen sinks.
6. All sinks shall be ADA compliant.
7. Showers will be ADA compliant with a handheld shower head.
8. A mop service basin will be included in Janitor closet.
9. Floor drains shall include trap guards.
10. Hose Bibs will be at every other vehicle bay.
11. Non-freeze wall hydrants will be included (minimum 2 on exterior façade of Building).
12. Water cooler will be bi-level type with bottle filler to meet ADA requirement in office area.
13. Operations area will have a boot wash.
14. Vehicle Maintenance will have a water cooler, water closet, lavatory and shower.
15. Ice machine to be provided at boot wash area.
16. A washer box shall be provided at the Operations area.

B. The following plumbing equipment is included:

1. Water heater
2. Hot water recirculation pump at all water heaters.
3. Thermostatic mixing valve at all water heaters.

C. Refrigerators will be provided with water pipe and filter (water supply boxes).

D. Enclosed Vehicle Storage will have continuous trench drains, catch basins and sand and oil interceptors.

E. Emergency eye wash will be included in Maintenance. An emergency mixing valve shall be included for emergency eye wash.

F. Domestic water will be provided for the Wash Bay. The wash bay will have one electric hotsy unit with two hose reels.

G. Vibration and Seismic Controls
1. Seismic restraints will be included for all equipment.
2. Seismic restraints shall be provided in accordance with local and national applicable codes and standards. This site is a Risk Category III, Site Class D, and Seismic Design Category C.
3. Seismic restraints will be provided for piping suspended more than 12 inches from supporting structure throughout the facilities.

Division 23: Mechanical

A. Codes:
1. 2018 Kentucky State Building Code
2. 2020 Kentucky State Plumbing Code
3. 2015 Kentucky State Mechanical Code
4. 2012 Kentucky State Energy Conservation Code
5. 2014 Kentucky State Storm Shelter Code
6. All work shall be installed in accordance with applicable codes, ordinances, and Authorities Having Jurisdiction. The mechanical contractor shall be licensed by the necessary AHJ and provide all necessary labor, materials, equipment, and tools to install a complete mechanical system. The Contactor shall secure and pay for all necessary permits and inspections required by the AHJs for installation of their equipment. The contractor shall comply with applicable OSHA and other safety regulations and standards.

B. New Office Building
1. The new office building will be heated to 70°F (at 0°F outdoor design temperature) and cooled to 74°F/40-60%RH (at 95°F outdoor design temperature).

2. MC to provide (3) new packaged rooftop units, mounted on grade, to heat, cool and ventilate the space. Unit shall operate as a heat pump down to 0°F

ambient and have electric heat for operation down to -10°F. (2) units will have a capacity of approximately 20 tons; (1) unit will have a capacity of approximately 5 tons. MC to provide ductwork from outdoor units into building, and all associated air distribution items listed below.

i. 20-ton units will serve overall office; 5-ton unit will serve the hardened area and be located in a corresponding hardened enclosure.

3. MC to provide VAV boxes with electric heat for zone control Approximately (23) VAV boxes are required, with sizes ranging from 6"Ø inlet to 14"Ø. Electric heating coils range from 3 KW to 15 KW.

4. Offices will be grouped in zones according to exposure. There will be one temperature sensor which serves 3 to 4 offices, provided by the MC/TCC. Conference Rooms, Break Rooms, Multi-Purpose Rooms will be zoned separately / have their own VAV box and temperature sensor.

5. MC is to duct exhaust air from toilet rooms, break rooms, locker rooms, electrical rooms, etc. back to inline exhaust fans and out of the building. Approximately (3) inline fans are required.

6. Return air is to be via the plenum.

7. MC to provide separate, dedicated computer room air conditioner (CRAC) units and associated condensing units for redundant cooling in the server room. The condensing units are to be installed in the hardened enclosure outside the building. The CRAC units will be installed in the adjacent storage room and ducted into the server room. Supply and return ductwork will contain motorized dampers that shall be interlocked with clean agent fire suppression system in the server room. Minimum (2) 29 KW floor mounted, upblast CRAC units with rear returns are required; more units may be required once IT layout is complete.

8. MC to provide supplemental electric heaters at each Vestibule.

C. <u>Existing Office Building - Existing, Renovation</u>

1. The existing office building will be heated to 70°F (at 0°F outdoor design temperature) and cooled to 74°F/40-60%RH (at 95°F outdoor design temperature).

2. Existing office building is conditioned with (3) single zone, ground mounted roof top units. Units are approximately 7 tons each and are less than 10 years old. Units shall be reused and repurposed.

i. Existing AC-3 and 4 shall remain relatively as ducted currently, with small revisions to accommodate new floor plan.

ii. Existing AC-5 shall be re-ducted to feed new central open office.

3. MC to provide (1) new packaged rooftop unit, mounted on grade, to heat, cool

and ventilate the existing fitness room, lobby, VP offices and conference rooms. Unit shall have gas heat for operation down to -10°F and a DX cooling coil. Unit will have a capacity of approximately 10 tons. MC to provide ductwork from outdoor units into building, and all associated air distribution items listed below.

i. MC to provide VAV boxes with electric heat for zone control Approximately (6) VAV boxes are required, with sizes ranging from 6"Ø inlet to 14"Ø. Electric heating coils range from 3 KW to 15 KW.
ii. MC to provide new ductwork will be provided for this unit and associated VAV boxes.

4. Existing exhaust fans and ductwork will remain. MC shall verify full operation prior to turnover to owner. New ductwork will be extended to additional air devices where shown on plans.

5. Existing air returns are ducted. New air returns will also be ducted, by MC.

6. (4) existing minisplit air conditioners condition the existing server room. These units shall be existing to remain.

7. (2) kitchen hoods with integral fire suppression will be provided for the added ranges in the existing linemen room. These hoods shall be equipped with a manual pull station for emergency shutoff.

D. Enclosed Vehicle Storage – Existing, Renovation

1. The enclosed vehicle storage area will be heated to 50°F (at 0°F outdoor design temperature) and cooled to 75°F/40-60%RH (at 95°F outdoor design temperature).

2. Existing area building is conditioned with (2) single zone, ground mounted roof top units. Units are approximately 22 tons each and are less than 10 years old. Units shall be reused and repurposed.

i. Existing AC-1 and 2 shall have their ductwork modified to suit an exposed duct installation without a lay-in ceiling. Existing air devices shall be removed and salvaged; MC shall provide new duct mounted air devices in existing duct mains.
ii. Existing outside air damper positions shall be adjusted to better suit new occupancy.
iii. MC shall relocate existing thermostats as required.

3. MC to provide ventilation system for the vehicle storage area through wall mounted exhaust fans will be installed on one side of the Vehicle Bay and OA intake louvers on the opposite side of the Vehicle Bay. The exhaust fans are to be controlled by combination carbon monoxide (CO) and nitrogen dioxide (NO2) sensors. Manual switches and temperature sensors will be provided for manual/summer ventilation control. All sensors to be provided by MC/TCC. MC to provide (2) Exhaust fans/louver, each with approximately 6200 CFM capacity.

E. Warehouse – New Addition

1. The Warehouse areas will be heated only. These areas will be heated to 65°F (at 0°F outside air temperature). MC shall provide gas unit heaters to heat the space. No cooling.

2. MC to provide destratification fan(s) for increased air circulation.

3. MC to provide a new air compressor (approximately 5 HP, 100 psig). MC to provide compressed air piping between the compressor and quick-connect compressed air drops. Air compressor to be located in the mezzanine.

4. MC to provide ventilation system for the warehouse and vehicle storage area through wall mounted exhaust fans will be installed on one side of the Vehicle Bay and OA intake louvers on the opposite side of the Vehicle Bay. The exhaust fans are to be controlled by combination carbon monoxide (CO) and nitrogen dioxide (NO2) sensors. Manual switches and temperature sensors will be provided for manual/summer ventilation control. All sensors to be provided by MC/TCC. MC to provide (1) Exhaust fans/louver, each with approximately 5800 CFM capacity. No positive pressure required.

5. MC to provide compressed air piping at multiple locations with a quick connect fitting.

F. Warehouse Office Areas – New Addition

1. The Warehouse office areas will be heated to 70°F (at 0°F outdoor design temperature) and cooled to 74°F/40-60%RH (at 95°F outdoor design temperature).

2. These office areas will be served by a dedicated split system heat pump (slim ducted style). MC shall provide minimum (1) fan coil units to serve the warehouse office area; MC shall provide minimum (1) fan coil unit to serve the meter office and work room; MC shall provide a 6"Ø outdoor air duct and wall louver for ventilation air for each unit.

3. Locker room and restroom shall be exhausted via an inline exhaust fan that is ducted to a louver on the exterior of the building. MC to provide fan and ductwork and all associated components for operation.

4. MC to provide condensate piping between indoor units and floor drains. Piping to be DWV copper.

5. The return air will be ducted to each fan coil unit by the MC. Return air grilles in each room are to include a ducted sound elbow. Filters are to be installed in a return duct side access filter rack at each fan coil unit above the ceiling, also by the MC.

G. New Maintenance Building

1. The Maintenance and associated areas will be heated only. These areas will be heated to 65°F (at 0°F outside air temperature). MC shall provide electric unit heaters to heat the space. No cooling. Approximately (4) 10 KW heaters will be required for the maintenance; (2) 10 KW heaters will be required in the transformer storage area; (2) 1.5 KW heaters will be required for small storage rooms.

2. MC to provide ventilation system for the maintenance area through wall mounted exhaust fans will be installed on one side of the Vehicle Bay and OA intake louvers on the opposite side of the Vehicle Bay. The exhaust fans are to be controlled by combination carbon monoxide (CO) and nitrogen dioxide (NO2) sensors. Manual switches and temperature sensors will be provided for manual/summer ventilation control. All sensors to be provided by MC/TCC. MC to provide (1) Exhaust fans/louver, each with approximately 2900 CFM capacity. No positive pressure required.

3. MC to provide a new air compressor (approximately 7.5 HP, 100 psig). MC to provide compressed air piping between the compressor and quick-connect compressed air drops.

4. MC to provide compressed air piping at multiple locations with a quick connect fitting. Minimum (2) compressed air hose reels shall be provided in the center of the space.

5. MC to provide destratification fan(s) for increased air circulation.

6. MC to provide a complete oil filling system complete with steel piping, pneumatic oil pumps, and flexible retractable hoses. MC to coordinate with owner for provision of motor oil and desired weights. Approximately (2) weights of motor oil shall have independent distribution systems.

H. Maintenance Office Areas

1. The maintenance office will be heated to 70°F (at 0°F outdoor design temperature) and cooled to 74°F/40-60%RH (at 95°F outdoor design temperature).

2. These office areas will be served by a dedicated split system heat pump (slim ducted style). MC shall provide minimum (1) fan coil units to serve the maintenance office area; MC shall provide a 6"Ø outdoor air duct and wall louver for ventilation air for this unit.

3. Restroom shall be exhausted via an inline exhaust fan that is ducted to a louver on the exterior of the building. MC to provide fan and ductwork and all associated components for operation.

4. MC to provide condensate piping between indoor units and floor drains. Piping to be DWV copper.

I. Washbay area

1. The Washbay will be heated only. The area will be heated to 60°F(at 0°F outside air temperature). MC is to provide (2) 10kW washdown-proof electric unit heater hung from the structure will be provided for heating. Cooling will not be provided for this area.

2. MC to provide a wall mounted exhaust fan for ventilation. The exhaust fan will be controlled by CO/NO2 sensors located in the space and a wall-mounted switch. OA intake louver will be installed on the opposite side of the Wash Bay. Units are approximately 1200 CFM capacity.

3. No positive pressure required.

J. Pump House/Containment Pit

1. The Pump House will be heated only. The area will be heated to 60°F(at 0°F outside air temperature). MC is to provide (2) 10kW electric unit heaters hung from the structure will be provided for heating. Cooling will not be provided for this area.

2. MC to provide a wall mounted exhaust fan for ventilation. The exhaust fan will be controlled by CO/NO2 sensors located in the space and a wall-mounted switch. OA intake louver will be installed on the opposite side of the Wash Bay. Units are approximately 1200 CFM capacity.

3. No positive pressure required.

K. Temperature Controls
1. MC/TCC to provide digital controls required to operate the VAV system. VAV RTU shall be furnished with integral controller and programming to operate as a standalone system. This contractor shall provide all thermostats, wiring, and programming required for the full operation of all mechanical systems. The TCC shall provide the owner with a day of training from the manufacturer to learn the controls system.

L. Louvers and hoods
1. All louvers and hoods, provided by the MC, shall be painted a custom color and will be rated for winds speeds and missile impact loading as described in the structural scope of work.

M. Ductwork/Duct Insulation
1. MC shall provide all ductwork and insulation described below.
    i. All ductwork shall be based on SMACNA standards for low pressure

duct.

ii. All supply air ducts above ceilings will be lined, galvanized steel sheet metal. Round ductwork shall be wrapped.
iii. Ductwork located outdoors shall be internally lined and externally insulated. Provide jacketing over external insulation for outdoor locations.
iv. Return air ductwork will be galvanized steel duct.
v. Return air duct will be lined with acoustical insulation.
vi. Exhaust ducts for the restrooms will be uninsulated galvanized steel ducts.
vii. All ductwork in unconditioned spaces shall be wrapped with 2 inches of insulation, including lined ductwork.

N. Air Distribution
1. MC shall provide all air distribution equipment described below.
i. Supply air diffusers will be primarily 24"x24" square type.
ii. Return air diffusers will be 24"x24 square type or 24"x12" type as required for airflow.
iii. Flexible duct length shall not exceed 8'-0".
iv. All duct run outs to air devices shall have a damper with a locking quadrant.
v. Fire dampers will be provided at hardened areas and where provided by code.
vi. Duct smoke detectors will be provided where required by code.

O. Piping
1. MC to provide all piping and insulation detailed below:
i. All refrigerant liquid and suction piping will be insulated.
ii. Piping materials shall be as follows:
1. Refrigerant piping shall be copper tubing type ACR, hard drawn per split system manufacturer's installation requirements.
2. Condensate drain piping shall be copper tubing type DWV.

P. Vibration and Seismic Controls
1. MC to provide vibration isolators for all exhaust fans, rooftop units, fan coil units, air compressors, and split systems.
2. MC shall provide seismic and wind restraints in accordance with local and national applicable codes and standards. This site is a Risk Category III, Seismic Design Category C.

Q. Balancing
1. MC to include testing and balancing of system after completion. All air systems are to be balanced for specified design flow rate and pressure.

Division 26: Electrical

A. Codes

1. 2018 Kentucky State Building Code
2. 2012 Kentucky State Energy Conservation Code
3. 2023 National Electric Code, NFPA 70
4. All work shall be installed in accordance with applicable codes, ordinances and Authorities Having Jurisdiction. The electrical contractor shall be licensed by the City of Owensboro, Ky and provide all necessary labor, materials, equipment and tools to install a complete electrical system. The Contactor shall secure and pay for all necessary permits and inspections required by the AHJs for installation of their equipment. The contractor shall comply with applicable OSHA and other safety regulations and standards.
5. Unless specifically noted otherwise, all equipment, conduit, conductors, devices and installation of same shall be by the Electrical Contractor.

B. Site

1. New Office Building:
    i. Pad-mounted utility transformer by Cooperative (estimated to be 350 kVA at 480/277/3/4 output). The transformer will be located outside on the west side of the office building. Primary electrical work, including conduit, trenching, conductors, terminations, and transformer, will be by Taylor County Rural Electric Cooperative Corporation. Secondary conduit, trenching, conductors, terminations, and transformer pad shall be by Electrical Contractor. Meter, meter enclosure, CTs and meter cabling will be by TCRECC. The transformer will serve the building via the 600A Main Distribution Panel MDP.
    ii. Standby power from a 300kw diesel engine driven generator set with a weather resistant level 2 sound attenuating enclosure and dual wall 24 hour subbase tank will be provided by the contractor. Contractor to provide a 600A, 480/277/3/4, open transition, NEMA 1 enclosed, bypass isolation, automatic transfer switch to serve the building during normal power outage.
    iii. EC shall provide a dedicated generator for the hardened area. A secondary standby power source shall be provided from a 60KW diesel engine driven generator set with a weather resistant level 2 sound attenuating enclosure and dual wall 24 hour subbase tank will be provided by the contractor. Provide a (2) 200A NEMA 1 rated 120/208V/3/4 Closed transition, bypass isolation automatic transfer switch. Provide generator with remote fill station on exterior of hardened enclosure.
    iv. Each genset shall be set on a 12" thick concrete pad near the utility transformers on the west side of building. The gensets shall be provided with 120/208V/3/4 power distribution panel for feeding a jacket water heater, lube oil heater, alternator heater, EPO pushbutton and battery charger fed from an interior panelboard. Contractor to provide power from the panelboard and make all connections. Contractor shall provide a remote annunciator panel at the dispatch room for generator alarm and status.

2. Existing Building with Warehouse addition:
    i. Existing pad-mounted utility transformer anticipated to be reused. The transformer will be located outside on the west side of the building. Secondary conduit, trenching, conductors, and terminations shall be by Electrical Contractor. Meter, meter enclosure, CTs and meter cabling will be by TCRECC. The transformer will serve the building via the 800A Main Distribution Panel MDP.
    ii. Standby power from a 350kw diesel engine driven generator set with a weather resistant level 2 sound attenuating enclosure and dual wall 24 hour subbase tank will be provided by the contractor. Contractor to provide a 600A, 480/277/3/4, open transition, NEMA 1 enclosed, bypass isolation, automatic transfer switch to serve the building during normal power outage.
    iii. Genset shall be set on a 12" thick concrete pad near the utility transformers on the west side of building. The gensets shall be provided with 120/208V/3/4 power distribution panel for feeding a jacket water heater, lube oil heater, alternator heater, EPO pushbutton and battery charger fed from an interior panelboard. Contractor to provide power from the panelboard and make all connections. Contractor shall provide a remote annunciator panel at the dispatch room for generator alarm and status
3. New Maintenance Building:
    i. Pad-mounted utility transformer by Cooperative (estimated to be 350 kVA at 480/277/3/4 output). The transformer will be located outside on the west side of the office building. Primary electrical work, including conduit, trenching, conductors, terminations, and transformer, will be by Taylor County Rural Electric Cooperative Corporation. Secondary conduit, trenching, conductors, terminations, and transformer pad shall be by Electrical Contractor. Meter, meter enclosure, CTs and meter cabling will be by TCRECC. The transformer will serve the building via the 200A main panelboard H4.
    ii. Standby power from a 150kw diesel engine driven generator set with a weather resistant level 2 sound attenuating enclosure and dual wall 24 hour subbase tank will be provided by the contractor. Contractor to provide a 200A, 480/277/3/4, open transition, NEMA 1 enclosed, bypass isolation, automatic transfer switch to serve the building during normal power outage.
    iii. Genset shall be set on a 12" thick concrete pad near the utility transformers on the west side of building. The gensets shall be provided with 120/208V/3/4 power distribution panel for feeding a jacket water heater, lube oil heater, alternator heater, EPO pushbutton and battery charger fed from an interior panelboard. Contractor to provide power from the panelboard and make all connections. Contractor shall provide a remote annunciator panel at the dispatch room for generator alarm and status.
4. Provide (2 #10, #10G)-1" Schedule 40 PVC conduit branch circuits underground with 24" minimum cover of direct buried open trench runs to new pole mounted exterior lighting. Luminaires shall be provided for general lighting

to meet IESNA criteria of 0.5fc min with a 15:1 max to min ratio, consisting of nominal 150 watt LED light engines in full cutoff shoebox fixtures on a 37' x 5" square steel pole in the yard, a 27' x 5" square steel pole around building and 22' x 5" square steel pole in parking lots. All pole bases shall be 24" diameter, 78" embed, 3' above grade, reinforced concrete. Pole and base shall be designed to withstand 90 mph wind speed with 3-second gusts. Exterior building mounted fixtures shall be full cut-off, 150 watt nominal LED service shoebox type for driveway or parking lot lighting. Provide two (2) grade mounted flood light fixtures with 30 watt nominal LED light engines to illuminate the flag. Provide power to building mounted internally illuminated sign at front entry. At designated emergency egress doors on all buildings, full cut-off, LED fixtures with emergency battery powered drivers shall be provided to meet egress lighting codes. All exterior lighting shall be controlled with photocell, mounted facing north, and time switch and contactors, located adjacent to source panelboard(s). Contactors shall be rated for 30 amps and have 4 poles, minimum, in a NEMA 1 enclosure.

5. Weatherproof while-in-use type NEMA 5-20R, GFCI, duplex receptacles shall be provided on the building exterior for general use. These receptacles shall be spaced at somewhat equal intervals and typically located near exterior doors. Anticipate thirty (30) receptacles.
6. Power shall be provided from the nearest electrical panel via a 1" PVC schedule 40 conduit to each of the (2) double sliding gate operators. The controls and monitoring shall consist of a (2) 1" pvc schedule 40 conduits from the server room phone backboard to each gate and continue in conduit for a below grade induction loop or pressure sensor for gate exiting control. The electrical contractor shall provide the cabling to, camera rough-in for, programming of, and controls for the gate operators. Gate control shall be in the office building at Warehouse Office via telephone or pushbutton release. The electrical contractor shall field verify rights-of-way of existing utilities and structures. Each gate shall have an intercom, camera and card reader.
7. Electric Vehicle charging has not been included at any of the buildings.
8. Lightning protection system has not been included for any of the buildings.

C. Office

1. Two (2) 40kW UPS shall be provided to serve the server room and hardened area only. Each UPS shall be fed by a 120/208V/3Ph/4W, 200A panel (S1 & S2) which also feeds the CRAC units and condensing units. Each panel will be fed from a 200A automatic transfer switch. The automatic transfer switch will have source 1 from DP1 or L1 (see one line diagram) and Source 2 from the hardened area dedicated generator. Each UPS shall feed a 150A, 120/208/3/4, 42 circuit panelboard within the Server Room.
2. The office area shall be fed from one (1) 125A and two (2) 250A/3P feeder circuit breakers. The two (2) 250A breakers shall feed, (1) 480/277/3/4, 42 pole panelboard and (1) 150kVA step down transformer (T1). The panelboard shall feed the lighting and mechanical loads. The transformer shall feed a 600A fused disconnect switch feeding (1) 120/208/3/4 600A panelboard. The one (1) 125A breaker shall feed a 75 KVA step down transformer (T2) this transformer shall

feed an 200A fused disconnect switch, then to a 200A ATS and server room panel, refer to one line diagram. All panels shall be protected by Surge Protection Devices (SPD). All the electrical panels shall be located in the electrical room or in the server room. The 120/208/3/4 panels shall feed the receptacles and miscellaneous small mechanical loads in the office.

3. Power to mechanical equipment includes ground mounted roof top units, variable air volume boxes, computer room air conditioning units, water heaters, circulation pumps, water softener, electric cabinet unit heaters, and exhaust fans.
4. Lighting in the office building shall consist of 2' x 4', LED, lay-in fixtures controlled by wall or ceiling mounted vacancy sensors and daylight sensors. Perimeter windows shall add daylight zones to rooms and automatic daylight controls shall be incorporated.
5. Lighting in the private offices, multipurpose, Conference and War rooms shall be controlled with wall mounted 0-10V dimmers.
6. Lighting in the restrooms shall consist of 2' wall bracket type LED fixtures and LED downlights controlled by wall or ceiling mounted occupancy sensors.
7. Electrical, mechanical, storage, janitor and similar rooms shall use LED utility chain hung fixtures controlled by wall mounted occupancy sensors.
8. Emergency lighting shall be provided by battery powered polycarbonate emergency LED exit signs with integral dual headlamps and battery powered dual headlamps egress lights at exits and along the paths of egress to provide code required minimum lighting.
9. All lighting levels shall be in accordance with the minimum IESNA standards for the respective space types. These standards include: 20 footcandles in the toilet rooms, locker rooms, corridors, storage rooms, reception and mechanical rooms; 30 footcandles at 36" above finished floor in the file, work/copy, break room, lineman room, vehicle storage, wash bay and warehouse; and 50 footcandles at 36" above finished floor in the conference rooms, Community room, War and offices. Light fixtures shall be installed with 10' flexible whips.
10. Four (4) NEMA 5-20R receptacles shall be provided in each office. Reception, Lobby, Meter and similar rooms shall have three (3) receptacles each. Toilet, mechanical, electrical, janitor, storage, larger closets and vestibules shall receive one (1) receptacle. Multipurpose, Break, server, Multipurpose room, War room, Lineman room and kitchen shall receive multiple outlets depending on the equipment and devices installed. The conference rooms shall have receptacles on 3 walls, floor box with power, data and A/V, and television connections. The Multipurpose room shall receive multiple recessed wall and floor mounted receptacles in various locations to maximize the room flexibility. Receptacles located in wet locations and locations specified by the electrical code shall be GFCI type. It is anticipated all ventilation, and office equipment shall be electrical and receive power. Water heaters shall be electric.
11. Provide 120V power to flat panel TV in Multipurpose, War and private conference rooms. Additionally, provide wall mounted receptacle and recessed wall box with connectors for owner provided A/V equipment source(s). See below.
12. Provide A/V connections (HDMI and Cat 6) between TV and wall and floor device boxes in multipurpose room, War and private conference rooms. Also provide overhead sound reinforcing speakers, amplifier, HDMI de-embedder and enclosure above ceiling to connect to A/V inputs in Community/Training.

13. Data distribution and devices shall be provided to all offices, workstations and other areas requested by the owner. The telecom conduits shall enter below grade into the Server Room. Provide four (4) 4" conduits from Server Room to east property line near Road. A phone board (4' wide x 8' high), duplex receptacle, 2" deep by 12" wide wire basket type cable tray at 7'-6" above finished floor across room above racks and ground bus shall be provided in Server and IDF locations in out buildings for voice/data equipment and terminations. All wiring, cables, jacks, devices, passive electronic components, and wall plates shall be provided by the electrical contractor. Two (2) locations per office shall contain two (2) terminated data drops. These drops shall consist of a double gang outlet box and 1" EMT conduit with pull string and insulated bushing stubbed up 10' above the finished floor securely mounted to the wall surface. Telephone service demarc shall be in the Server Room. IDF closets shall be in the Warehouse, Vehicle Maintenance and vehicle storage area. Cables shall be plenum rated Cat 6 terminated to RJ-45 jacks on the device end and patch panels on the supply side. In Server Room, provide three (3) four-post cabinets with wire management, power strips, and (2) L6-20R receptacles and two (2) two-post racks with wire management, power strips, and (2) L6-20R receptacles per rack. Provide 4" C with (3) 1" innerducts housing 12 strand, 50/125um, MM OM3 fiber between Server Room and IDFs. In IDF areas, provide one (1) 2-post rack with wire management, power strips, and (2) L5-20R receptacles.
14. Provide wireless access points (POE type) every 3000 sq. feet.
15. Provide four (4) 4" conduit with pull tape from Server Room to radio communications antenna tower to the southeast of the office.
16. Provide 4-strand multi-mode armored optical fiber to powered switch, punch downs, 120V NEMA 5-20R GFI receptacle and light box in environmentally controlled enclosure at each gate for controls, communications and exterior cameras.
17. Cable TV shall enter Server Room underground from 2" conduit to south property line near Main Road.
18. Cable television shall be provided in the Community/Training Rooms and War room. CATV locations shall include a 4" square box with single gang raised device ring, ¾" conduit with insulated bushing and pull string up to above the accessible ceiling, single gang faceplate with RJ45 jack and Cat 6 cable.
19. CATV is not anticipated at locations other than the office building.
20. A new fire alarm system shall be provided with the control panel located at the Server Room with remote annunciator at the main entry. New devices shall include double action manual pull stations, heat detectors, photoelectric smoke detectors, water flow switch, tamper switches, duct detectors, control modules, relays, monitor modules, exterior bell, fire alarm power supplies with charger and batteries for powering new horn/strobe notification appliances, and required emergency batteries per codes. Fire alarm circuiting shall be class B with signal circuits style 4, notification circuit style Y and initiating circuits style B. Cabling shall be plenum rated fire alarm certified type. The new fire alarm panel shall provide a general alarm, trouble and supervisory signals to the DACT located in the server room, which shall be connected to a central station. The owner shall coordinate new dual path cellular/IP connections and central station

monitoring for the Fire Alarm System.

21. Provide three (3) monitor modules at Clean Agent Releasing Panel serving Server Room.
22. Provide Fire Alarm connections for generator set running and alarm conditions. Provide these lines with surge protection devices as soon as they enter the building.
23. Provide horn/strobe notification appliances per NFPA 72, ADAAG and IBC, as required.
24. The fire alarm system shall provide complete coverage of the office building, warehouse, vehicle maintenance and enclosed vehicle storage only.
25. Security shall be provided in the building to include door contacts, card readers, request-to-exit devices, electric strikes/electrified hardware and video surveillance cameras. Access control shall be provided at all exterior doors, interior doors off the public vestibule, Server room and at site vehicle gates. Door contacts, card readers, request-to-exit devices and electrified hardware rough-ins shall consist of a recessed mounted handy-box at all device locations, with a ½" conduit to a 6" square 3" deep junction box above accessible ceiling. Interior fixed video surveillance cameras shall be IP-based POE and do not require 120V power connections. Cabling shall be plenum rated, UTP with number of conductors as required. Exterior cameras shall be provided at office, entry gates, warehouse, enclosed vehicle storage, enclosed material storage, wash bay and on site lighting poles. Exterior cameras shall have optical fiber run to them with fiber to copper converter, POE power supply and 120V power to each location.
26. Provide a network-based digital video recorder on an IP-based LAN/WAN infrastructure for a digital video system using H.264 video compression, 30 FPS, MPEG4, 16 Terra Byte Storage and 18" flat panel monitor.
27. EC shall provide an intrusion detection systems including glass break sensors, motion sensors, key pads at all exterior doors, door position sensors at all exterior doors.
28. Public address shall be provided via phone handsets with output over phones.
29. Provide power and conduit for four (4) level 2 Electric Vehicle charging stations include a 2" PVC Sch 40 conduit from nearby panel to each parking area at the office. Provide a 1" PVC Sch 40 conduit from the Server room to the charging station for monitoring and potential payment.

D. Warehouse and Vehicle Storage

1. These areas shall be fed from the existing 480/277/3/4 800A main distribution panel. provide one (1) 225A/3P feeder circuit breakers in existing space to one (1) 480/277/3/4, 42 pole panelboard (HV4). This panel shall feed lighting, HVAC equipment, and a 75kVA step down transformer (TLV4). Provide one (1) 50A/3P feeder circuit breaker in space of demolished load for 30kva stepdown transformer feeding fuel island panelboard. The panels shall be protected by SPDs.
2. The 75 kva transformer (TLV4) shall feed a 120/208/3/4, 225A MCB, 84 pole panel adjacent to the transformer. This panel shall feed the receptacles and miscellaneous small mechanical loads.
3. Power to mechanical equipment includes mini split systems, water heaters,

exhaust fans, circulation pumps, destratification fans, electric boilers and dry fire protection system air compressor.

4. Lighting shall consist of high bay LED fixtures cable mounted from structure.
5. Lighting in the offices shall consist of 2' x 4', LED, lay-in fixtures controlled by wall or ceiling mounted occupancy sensors.
6. Lighting in the restrooms shall consist of 4' wall bracket type LED fixtures and LED downlights controlled by wall or ceiling mounted occupancy sensors.
7. Electrical, mechanical, storage, janitor and similar rooms shall use 4' LED utility chain hung fixtures controlled by wall mounted occupancy sensors.
8. Emergency lighting shall be provided by battery powered polycarbonate emergency LED exit signs with integral dual headlamps and battery powered dual headlamps egress lights at exits and along the paths of egress to provide code required minimum lighting.
9. All lighting levels shall be in accordance with the minimum IESNA standards for the respective space types. These standards include: 20 footcandles in the toilet rooms, locker rooms, corridors, storage rooms, reception and mechanical rooms; 30 footcandles at 36" above finished floor in the files, work/copy, break room, vehicle storage, and warehouse; and 50 footcandles at 36" above finished floor in the offices. Light fixtures shall be installed with 10' flexible whips.
10. EC shall provide Receptacles, NEMA 5-20R, shall be provided in these areas at each column line, adjacent to compressed air and hose bibbs, for general use. One (1) quad receptacle at every other overhead door for convenience shall be provided. Power to overhead sectional doors and their controls shall be provided with manual chain operation for emergency use.
11. EC shall provide power to weigh scales, dock devices, fork lift battery chargers, miscellaneous tools and equipment shall be provided as requested by Cooperative.
12. Provide two (2) receptacles and 4', LED utility chain hung fixtures (0.5W/sf) controlled by wall mounted occupancy sensors at each mechanical platform.
13. Voice and data distribution and devices shall be provided to all workstations and other areas requested by the owner. The telecom conduits shall enter below grade and stub up at the IDF location in Warehouse, Vehicle Storage, and Vehicle Maintenance area. Provide one (1) 4" conduit with (3) 1" innerducts from Server Room to IDF location. A phone board (4' wide x 8' high), duplex receptacle and ground bus shall be provided in IDF location for voice/data equipment and terminations. All wiring, cables, jacks, devices, passive electronic components, and wall plates shall be provided by the electrical contractor. Each location shall contain two (2) data drops. These drops shall consist of a double gang outlet box and 1" EMT conduit with pull string and insulated bushing stubbed up 10' above the finished floor securely mounted to the wall surface. Cables shall be plenum rated Cat 6 terminated to RJ-45 jacks on the device end and patch panels on the supply side. Provide one (1) 2-post rack with wire management, power strip, and (2) L5-20R receptacles per rack. Provide 12 strand, 50/125um, MM OM3 fiber between Server Room and IDF in one of the innerducts.
14. Provide wireless access points (POE type) every 3000 sq. feet.
15. CATV is not anticipated, except in the Warehouse offices, Break rooms, and Tech Elec work area.
16. A new fire alarm system shall be provided with the control panel located at the

Server Room. New devices shall include double action manual pull stations, heat detectors, photoelectric smoke detectors, water flow switch, tamper switches, duct detectors, control modules, relays, monitor modules, fire alarm power supplies with charger and batteries for powering new horn/strobe notification appliances, and required emergency batteries per codes. Fire alarm circuiting shall be class B with signal circuits style 4, notification circuit style Y and initiating circuits style B. Cabling shall be plenum rated fire alarm certified type. The new fire alarm panel shall provide a general alarm, trouble and supervisory signals to the DACT located in the server room, which shall be connected to a central station. The owner shall coordinate new analog voice lines and central station monitoring for the Fire Alarm System.

17. Provide horn/strobe notification appliances per NFPA 72, ADAAG and IBC, as required.
18. Security shall be provided in the building to include door contacts, card readers, request-to-exit devices, electric strikes/electrified hardware and video surveillance cameras. Door contacts, card readers, request-to-exit devices and electrified hardware rough-ins shall consist of a recessed mounted handy-box at all device locations, with a ½" conduit to a 6" square 3" deep junction box above accessible ceiling. Overhead doors shall have surface mounted door contacts to a surface mounted 4" square junction box and a ½" conduit stubbed up to 10' AFF. Interior fixed video surveillance cameras shall be IP-based POE and do not require 120V power connections. Cabling shall be plenum rated, UTP with number of conductors as required.
19. Public address shall be provided via phone handsets with output over phones.

E. Vehicle Storage/Maintenance

1. Provide an underground 200 amp, 480/277Y volt, 3 phase, 4 wire service from the new pad mounted distribution panelboard via 4-250 kcmil and #4G conductors in 3" conduit in a duct-bank. The service feeders shall terminate to a 200A fused disconnect and enter the vehicle maintenance building to terminate in 200A ATS as source 1 for 225A MLO panelboard located on the mezzanine.
2. Vehicle maintenance building shall be fed from one (1) 225A MLO, 480/277V/3Ph/4W, 42-pole panelboard. This panelboard will feed the lighting, transformer, HVAC equipment, mechanical loads, air compressor, pressure washer and other general loads as required. The panel will be protected by an SPD. This panel will feed a 75KVA transformer and 120/208V/3Ph/4W, 225A MCB, 84-pole panel adjacent to the transformer and 480V panel. This panel will feed receptacles and miscellaneous small loads. This panel will also feed a NEMA 3R 45kVA transformer and 120/208V/3Ph/4W, 175A MCB, 42 pole NEMA 3R panelboard at the covered storage building. The panels will be protected by an SPD.
3. EC shall provide power to mechanical equipment including electric unit heaters, split systems with electric heat and heat pumps, destratification fans, dry pipe sprinkler air compressor, water heater and exhaust fans.
4. EC shall provide lighting for vehicle storage and maintenance areas that will consist of high bay LED fixtures cable mounted from structure.
5. EC shall provide lighting in the offices that will consist of 2' x 4', LED, lay-in fixtures controlled by wall or ceiling mounted occupancy sensors.

6. EC shall provide lighting in the restrooms that will consist of 4' wall bracket type LED fixtures and LED downlights controlled by wall or ceiling mounted occupancy sensors.
7. EC shall provide tool storage, gear and similar rooms that will use 4' LED utility chain hung fixtures controlled by wall or ceiling mounted occupancy sensors.
8. EC shall provide emergency lighting by battery powered polycarbonate emergency LED exit signs with integral dual headlamps and battery powered dual headlamps egress lights at exits and along the paths of egress to provide code required minimum lighting.
9. All lighting levels will be in accordance with the minimum IESNA standards for the respective space types. Light fixtures will be installed with 10' flexible whips.
10. EC shall provide Receptacles, NEMA 5-20R, shall be provided in these areas at each column line, adjacent to compressed air and hose bibbs, for general use. One (1) quad receptacle at every other overhead door for convenience shall be provided. Power to overhead sectional doors and their controls shall be provided with manual chain operation for emergency use.
11. EC shall provide power to work benches, vehicle lifts, portable lift battery chargers, and miscellaneous tools and equipment as requested by Cooperative.
12. A new IDF will be provided on the mezzanine. The EC shall provide the IDF with 12-strand MM OM3 optical fiber back to the Office server room. Provide two (2) 2" conduits from Office Server Room to IDF. A phone board (4' wide x 8' high), duplex receptacle, 2" deep by 12" wide wire basket type cable tray at 7'-6" above finished floor across room above rack and ground bus will be provided in each IDF location for voice/data equipment and terminations. All wiring, cables, jacks, devices, passive electronic components, and wall plates will be provided by the electrical contractor.
13. EC shall provide data distribution and devices will be provided at all workstations and other areas requested by the owner. All wiring, cables, jacks, devices, passive electronic components, and wall plates will be provided by the electrical contractor. Each workstation will contain two (2) data drops. These drops will consist of two cables/jacks, a double gang outlet box and 1" EMT conduit with pull string and insulated bushing stubbed up 10' above the finished floor securely mounted to the wall surface. Cables will be plenum rated Cat 6 terminated to RJ-45 jacks on the device end and patch panels on the supply side. All devices to have cable homerun to vehicle Maintenance IDF.
14. EC shall provide wireless access points (POE type) every 3000 sq. feet.
15. CATV is not anticipated.
16. The fire alarm system will be extended to these buildings as indicated above. New devices will include double action manual pull stations, heat detectors, photoelectric smoke detectors, water flow switch, tamper switches, pressure switch, duct detectors, control modules, relays, monitor modules, fire alarm power supplies with charger and batteries for powering new horn/strobe notification appliances, and required emergency batteries per codes. Fire alarm circuiting shall be class B with signal circuits style 4, notification circuit style Y and initiating circuits style B. Cabling shall be plenum rated fire alarm certified type.
17. Provide horn/strobe notification appliances throughout building per NFPA 72, ADAAG and IBC, as required.

18. Video Surveillance/access control system will be provided in these buildings and extended from the existing system. New devices to include door contacts, card readers, request-to-exit devices, electric strikes/electrified hardware and video surveillance cameras. Access control will be provided at all exterior doors and interior doors where requested by the Cooperative. Door contacts, card readers, request-to-exit devices and electrified hardware rough-ins will consist of a recessed mounted handy-box at all device locations, with a ½" conduit to a 6" square 3" deep junction box above accessible ceiling. Interior fixed video surveillance cameras will be IP-based POE and do not require 120V power connections. Cabling will be plenum rated, Cat 6 UTP with number of conductors as required. EC shall coordinate with the owner and owner's vendor to provide interior and exterior cameras. Exterior remote cameras will have optical fiber run to them with fiber to copper converter, POE power supply and 120V power to each location. Please advise with information on existing system.
1. Public address will be provided via phone handsets with output over phones and paging speakers throughout the warehouse and vehicle storage areas.
2. Power and connections for battery chargers in the warehouse shall be provided by two (2) locations of 6' plugmold mounted vertically on wall. Power to overhead sectional doors and their controls shall be provided with manual chain operation for emergency use.
3. Power to weigh scales, work benches, fork lift battery chargers, vehicle lifts, trolley, hoist and miscellaneous tools and equipment shall be provided as requested by Cooperative.

Division 31-33: Site & Landscape

See drawings and specs from Pittmann Green for earthwork, exterior improvements, and utilities information.

LOCATION MAP

TAYLOR COUNTY RECC

685 WATER TOWER BYPASS

CAMPBELLSVILLE, KY 42718

DESIGN TEAM:

CIVIL:

Pitman Green, LLC.
131 North Public Square
Greensburg, KY 42743
270-973-5213
Corporate License No.:

STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL

SSC Engineering, Inc.
18207 Edison Ave.
St. Louis, MO 63005
636-530-7770
Corporate License No.: 001244

ABBREVIATIONS

ACOUS	ACOUSTICAL
AC	AIR CONDITIONING
ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
ALT	ALTERNATE OR ALTERNATIVE
ALUM	ALUMINUM
APPROX	APPROXIMATE(LY)
ATTEN	ATTENUATION
ATTN	ATTENTION
BD	BOARD
BM	BEAM
BMD	BOTTOM OF METAL DECK
BO	BOTTOM OF
BRG	BEARING
BSMT	BASEMENT
CAB(S)	CABINET(S)
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CARPET
CT	CERAMIC TILE
D	DEEP
DBL	DOUBLE
DEG	DEGREE
DTL	DETAIL
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FILLER (PANEL)
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FINISHED END (PANEL)
FEB	FIRE EXTINGUISHER (ON) BRACKET
FEC	FIRE EXTINGUISHER (IN) CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FO	FACE OF
FRT	FIRE RETARDANT TREATED
FT	FEET / FOOT
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GFRC	GLASS FIBER REINF. CONCRETE
GYP (BD)	GYPSUM (BOARD)
H	HIGH
HB	HOSE BIBB
HC	HANDICAP
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
LAM	LAMINATE / LAMINATED
LAV	LAVATORY
LP	LOW POINT
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MTL	METAL
MULL	MULLION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OVERFLOW DRAIN
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
PARTN	PARTITION
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
P LAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT
PROP	PROPERTY
PRT	PRESSURE TREATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RAD	RADIUS
RES	RESILIENT
RD	ROOF DRAIN
RE	REFER TO
REINF	REINFORCE
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
S	SHIM
SA	SUPPLY AIR
SAN	SANITARY
SC	SEALED CONCRETE
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T	TREAD
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
TEMP	TEMPERED
THK	THICK
TO	TOP OF
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN THE FIELD
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WT	WEIGHT
WWF	WELDED WIRE FABRIC

MATERIALS

- EARTH
- ROCK / GRANULAR FILL
- CONCRETE
- CONCRETE MASONRY UNITS (CMU) - PLAN
- BRICK
- STEEL
- DIMENSION LUMBER / BLOCKING
- SOLID SURFACE
- GYPSUM
- BATT INSULATION
- RIGID OR FOAM INSULATION
- SPRAY FOAM INSULATION
- PLYWOOD

SYMBOLS

COLUMN GRID

1 / A

DOOR IDENTIFICATION

S101 — DOOR NUMBER

WINDOW TYPE

W1 — WINDOW ID

W1 — BORROWED LITE ID

ROOM/SPACE

ROOM NAME
101

ROOM NAME

ROOM NUMBER

REVISION

19 — REVISION NUMBER

CLOUD AROUND REVISION

NORTH ARROW

PROJECT NORTH

TRUE NORTH

SECTION KEYS

1 / A2.1 — SIM — REFERENCE VIEW NOTATION — DETAIL NUMBER — SHEET WHERE DETAIL IS LOCATED

DETAIL KEY

1 / A2.1 — SIM — REFERENCE VIEW NOTATION — DETAIL NUMBER — SHEET WHERE DETAIL IS LOCATED

INTERIOR ELEVATIONS

1 / 2 / A2.1 — INDICATES DETAIL NUMBER — SHADED AREA INDICATES ELEV. — SHEET WHERE DETAIL IS LOCATED

EXTERIOR ELEVATIONS

1 / A2.1 — INDICATES DETAIL NUMBER — INDICATES ELEVATION — SHEET WHERE DETAIL IS LOCATED

MATCH LINE

MATCHLINE
SEE 1 / A0.1

MATCHLINE
SEE 1 / A0.1

GENERAL NOTES

1. Work shall conform to all local applicable building codes, regulations, and ordinances of authorities having jurisdiction. Contractor shall obtain and post all required permits.
2. All Civil, Structural, HVAC, Plumbing, Electrical, and Fire Protection *(add any other project specific disciplines)* items shown on Architectural Drawings are for coordination purposes only. Responsibility for the design of those items remains with each Engineer of Record for each discipline. Refer to the latest construction documents of each of those disciplines for the required scope of work and design. In the case of a discrepancy, notify Architect and Engineer for further direction, otherwise the documents of each specific discipline take precedence.
3. Ensure that the building envelope is airtight including but not limited to the roof to wall intersection, wall to floor intersection, wall to door & wall to window intersections.
4. Specifications and drawings are to be interpreted according to the full intent, meaning and spirit, whether taken together or separately. Taken together, they shall be deemed to mutually explain each other and to be descriptive of the work to be performed under the Contract. In the case of an inconsistency between Drawings and Specifications or within either Document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance with the Architect's interpretation. In the event of a conflict between Drawings and/or Specifications, Contractor shall notify Architect for design interpretation before proceeding with the Work. If the Work is performed without requesting Architect's interpretation, any remedial work requested by Architect to produce the intended result shall be performed at no additional cost to Owner.
5. Materials and products specified by name of manufacturer are assumed equal and shall form the basis of the contract. Request for approval of materials or products not specified must be made to the Architect in writing at least five (5) days prior to bid date, so such approval can be made by written addenda. Materials not so approved will not be considered. Request for substitution shall include a statement of the difference, if any, between the equipment specified and the substitution and a statement indicating changes/revisions required for related areas of work as a result of the substitution. The contractor shall offer evidence that the proposed substitute is equal or superior to the items specified as required by the Architect.
6. Layout of Work: Accurately place and install all work. Working from established lines and points, establish and maintain dependable markers for lines and levels of work. Calculate dimensions and measure for layout of work; do not scale the drawings. Follow written dimensions and layout points only. Record deviations (if any) from drawing information on existing conditions and review with Architect / Engineer at time of discovery. Exercise special care in the verification of all conditions and dimensions in the layout of work. The alignment in coordination of the work itself and other adjacent work is of primary importance and shall take precedence over dimensions, especially those indicated as approximate. Lay out and verify work to ensure alignment and fit and report any discrepancies immediately to the Architect before proceeding.
7. Protect all construction and repair any damages incurred during construction. Provide protection against weather so as to maintain all work, materials, apparatus, and fixtures free from damage. At the end of the day's work, all new work exposed to potential damaged shall be covered. Provide protection of any completed interior finish work during construction by whatever means necessary to maintain any completed finishes in new condition. Any damaged work or material that is scratched, marked or in any way impaired will be replaced at no extra cost.
8. Examine and confirm all substrate conditions where new materials are applied. Substrate shall be smooth, free of defects and shall conform to the requirements of the finished material manufacturers recommendation.
9. Location of Devices in Finished Areas:
   A. Location of wall devices as shown on plans is approximate and for estimating purposes only.
   B. When devices by different trades, such as lighting switches, thermostats, etc. are installed in the same location, they shall be mounted in an arrangement acceptable to the Architect / Engineer.
      1. When shown on architectural plans, elevations, or sections, locate devices as shown.
      2. When shown on mechanical or electrical drawings, but not on architectural drawings, devices shall be uniformly mounted so that they will be symmetrical. Vertically align devices mounted at different heights unless separated horizontally by a minimum distance of 24".
      3. Devices installed in masonry or surfaces to receive wood panels, wall covering or similar materials not easily cut and patched, shall be inspected by Architect at time of rough-in.
      4. When in doubt, check with Architect / Engineer prior to roughing-in.
   C. Deviations from the above principles without prior approval by the Architect / Engineer shall be corrected by the installation contractor. Any correction, including cutting and patching, entailed in the removal, relocation and reinstallation of any devices shall be the responsibility of the installing Contractor.
10. Coordinate the installation of access panels in partitions / ceiling areas that are required by mechanical, plumbing, fire protection and electrical.
11. Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
12. All electrical requirements for fire protection, plumbing, mechanical work, electrified door hardware, powered devices, etc. shall be coordinated for all work and included whether shown on the drawings or not - at no extra cost.
13. Provide and install fire extinguishers as indicated and as required by local fire district / AHJ.
14. "Finish Floor" refers to the top of the concrete floor slab.
15. See Civil Drawings for first floor slab elevation and ancillary building floor elevations. Building construction documents are based on ground floor slab elevation equal to 100'-0".
16. The word "align" as used in these documents shall supersede any dimensional information indicated. If discrepancies occur, notify the Architect immediately.
17. Typical dimensions are to face of new construction, or to column center lines. Refer to plan details for additional dimensions.
18. All angles shown are 45°, 90°, or 135° unless noted otherwise.
19. All foundation walls in excavated areas to bear on and be formed by cleaned, undisturbed, virgin sub-soil, unless recommended otherwise in geotechnical report.
20. Provide bituminous coating between all dissimilar metals.
21. Penetrations through rated wall or floor/ceiling assemblies shall be sealed with UL listed firestop systems for the type of penetration. See specification section 078413 for additional information.
22. Provide 1'2" pre-molded expansion filters and continuous sealant along building wall or other vertical terminations where concrete paving and walks occur unless noted otherwise. Provide concrete EJ and CJ layout drawing for approval by Architect prior to installation.
23. Refer to spot grade elevation(s) for exact grade elevations. Contours are approximate.
24. Sidewalks shall slope no more than 2% in any direction unless accessible route is defined. Accessible route shall slope less than 5% in the direction of travel and no more than 2% perpendicular to the direction of travel.
25. Slope concrete slab areas to floor drains where occurs (see plumbing drawings).
26. At locations where a room with a ceiling is next to a room with an exposed structure, the partitions are to be extended to floor or roof deck above, with all components cut neatly around structural elements - see reflected ceiling plans for locations.
27. All wood blocking and/or sheathing at roofs or exterior walls or in contact with concrete or masonry shall be pressure treated for rot resistance.
28. See soil report and structural drawings for all joints in floor slabs.
29. Install 15 mil, vapor barrier beneath floor slab in all slab on grade areas.
30. Provide lean concrete fill to 30" below grade at all building entrances and exits to prevent frost heave and settlement.
31. Verify locations of beams and joists to coordinate with floor/roof penetrations (drain, water closets, vents, ducts, etc.) and notify Architect of conflicts prior to installing any structural members in question.
32. Interior finish materials and sound baffles shall be classified in accordance with flame spread ratings determined by ASTME-84. See specifications for information specific to each material.

DRAWING LIST

THE PROFESSIONALS INDICATED BELOW ALONG WITH THEIR LISTED RESPECTIVE DRAWINGS INDICATE THE NAMED PROFESSIONAL HAS PREPARED OR DIRECTED THE PREPARATION OF THE MATERIAL SHOWN ONLY ON THOSE SHEETS. OTHER DRAWINGS AND DOCUMENTS LISTED ON THIS INDEX SHALL NOT BE CONSIDERED PREPARED BY ANYONE OTHER THAN THE NAMED PROFESSIONAL UNDER WHICH THE DRAWING IS LISTED.

- O ISSUED FOR REFERENCE &/OR COST ESTIMATING
- ■ ISSUED FOR PERMIT / CONSTRUCTION
- Θ REVISION

		ISSUANCE 50% PACKAGE	DATE 03/06/2026	APPROVAL BY	APPROVAL DATE
0_GENERAL					
A0.1	COVER SHEET	O			
1_CIVIL - PITTMAN GREEN					
C-0.1	GENERAL NOTES	O			
C-0.5	EXISTING CONDITIONS	O			
C-1.0	SITE LAYOUT	O			
C-2.0	SITE GRADING PLAN	O			
C-3.0	EROSION CONTROL PLAN	O			
C-4.0	SITE UTILITY PLAN	O			
C-5.0	DETAILS	O			
C-5.1	DETAILS	O			
C-5.2	UTILITY DETAILS	O			
2_ARCHITECTURAL - M+H ARCHITECTS					
A0.2	CODE PLAN				
A0.3	CODE PLAN				
A0.4	SITE PLAN & DETAILS				
A1.1	DEMO PLAN - OPERATIONS & MAINTENANCE	O			
A1.11	DEMO RCP - OPERATIONS	O			
A2.1	FLOOR PLAN - OPERATIONS	O			
A2.2	FLOOR PLAN - MAINTENANCE & COVERED STORAGE	O			
A2.3	FLOOR PLAN - OFFICE HQ	O			
A2.4	PARTITION TYPES & DETAILS				
A2.6	ENARGED PLANS				
A2.7	ROOF PLAN	O			
A3.1	ELEVATIONS - OPERATIONS	O			
A3.2	ELEVATIONS - MAINTENANCE & COVERED VS	O			
A3.3	ELEVATIONS - OFFICE HQ	O			
A4.1	ENLARGED TOILET PLANS & ELEVS.				
A5.1	INTERIOR ELEVATIONS				
A6.1	RCP - OPERATIONS				
A6.2	RCP - MAINTENANCE AND VEHICLE STORAGE				
A6.3	RCP - OFFICE HQ				
A7.1	VERTICAL CIRCULATION				
A8.1	WALL SECTIONS	O			
A8.2	WALL SECTIONS				
A8.3	WALL SECTIONS				
A9.1	DOOR SCHEDULE & DETAILS				
A9.3	ALUMINUM FRAME TYPES				
A10.1	FINISH PLAN	O			
A10.2	FINISH PLAN	O			
A10.3	FINISH PLAN	O			
A10.4	FINISH SCHEDULE AND DETAILS				
3_STRUCTURAL - SSC ENGINEERING					
S0.1	STRUCTURAL GENERAL NOTES	O			
S0.2	STRUCTURAL GENERAL NOTES	O			
S0.3	STRUCTURAL SPECIAL INSPECTIONS	O			
S0.4	STRUCTURAL TYPICAL DETAILS	O			
S0.5	STRUCTURAL TYPICAL DETAILS	O			
S0.6	STRUCTURAL TYPICAL DETAILS	O			
S1.1	STRUCTURAL FOUNDATION PLAN - OPERATIONS BUILDING	O			
S1.2	STRUCTURAL FOUNDATION PLAN - WAREHOUSE	O			
S1.3	STRUCTURAL FOUNDATION PLAN - MAINTENANCE & COVERED STORAGE	O			
S1.4	STRUCTURAL FOUNDATION PLAN - OFFICE	O			
S1.5	STRUCTURAL MEZZANINE PLANS	O			
S2.1	STRUCTURAL ROOF FRAMING PLAN - OPERATIONS BUILDING	O			
S2.2	STRUCTURAL ROOF FRAMING PLAN - WAREHOUSE	O			
S2.3	STRUCTURAL ROOF FRAMING PLAN - MAINTENANCE & COVERED STORAGE	O			
S2.4	STRUCTURAL ROOF FRAMING PLAN - OFFICE	O			
S3.1	STRUCTURAL FOUNDATION SECTIONS	O			
S3.2	STRUCTURAL FOUNDATION SECTIONS	O			
S4.1	STRUCTURAL FRAMING SECTIONS	O			
S4.2	STRUCTURAL FRAMING SECTIONS	O			

		ISSUANCE 50% PACKAGE	DATE 03/06/2026	APPROVAL BY	APPROVAL DATE
4_FIRE PROTECTION - SSC ENGINEERING					
FP0.1	FIRE PROTECTION SYMBOLS, NOTES, LEGENDS AND SCHEDULES	O			
FP1.1	FIRE PROTECTION PLAN - OPERATIONS & WAREHOUSE	O			
FP1.2	FIRE PROTECTION PLAN - MAINTENANCE AND COVERED STORAGE	O			
FP1.4	FIRE PROTECTION PLAN - OFFICE	O			
5_PLUMBING - SSC ENGINEERING					
P0.1	PLUMBING SYMBOLS, ABBREVIATIONS & GENERAL NOTES (SSC STANDARD)	O			
P0.2	PLUMBING DETAILS	O			
P1.1	PLUMBING UNDERGROUND PLAN - OPERATIONS	O			
P1.2	PLUMBING UNDERGROUND PLAN - WAREHOUSE	O			
P1.3	PLUMBING UNDERGROUND PLAN - MAINTENANCE AND COVERED STORAGE	O			
P1.4	PLUMBING UNDERGROUND PLAN - OFFICE	O			
P2.1	PLUMBING FIRST FLOOR WASTE AND VENT PLAN - OPERATIONS	O			
P2.2	PLUMBING FIRST FLOOR WASTE AND VENT PLAN - WAREHOUSE	O			
P2.3	PLUMBING FIRST FLOOR WASTE AND VENT PLAN - MAINTENANCE AND COVERED STORAGE	O			
P2.4	PLUMBING FIRST FLOOR WASTE AND VENT PLAN - OFFICE	O			
P3.1	PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - OPERATIONS	O			
P3.2	PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - WAREHOUSE	O			
P3.3	PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MAINTENANCE AND COVERED STORAGE	O			
P3.4	PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - OFFICE	O			
P4.1	PLUMBING ROOF PLAN - OFFICE	O			
PD1.1	PLUMBING FIRST FLOOR UNDERGROUND DEMOLITION PLAN - OPERATIONS	O			
PD2.1	PLUMBING FIRST FLOOR WASTE AND VENT DEMOLITION PLAN - OPERATIONS	O			
PD3.1	PLUMBING FIRST FLOOR DOMESTIC WATER DEMOLITION PLAN - OPERATIONS	O			
6_MECHANICAL - SSC ENGINEERING					
M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES	O			
M0.2	MECHANICAL SCHEDULES	O			
M1.1	MECHANICAL PLAN - OPERATIONS	O			
M1.2	MECHANICAL PLAN - WAREHOUSE	O			
M1.3	MECHANICAL PLAN - MAINTENANCE AND COVERED STORAGE	O			
M1.4	MECHANICAL PLAN - OFFICE	O			
MD1.1	MECHANICAL DUCTWORK DEMOLITION PLAN - OPERATIONS	O			
7_ELECTRICAL - SSC ENGINEERING					
E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES	O			
E0.2	ELECTRICAL ONE-LINE DIAGRAM - OPS / VEHICAL STORAGE	O			
E0.3	ELECTRICAL ONE-LINE DIAGRAM - MAINT / WASHBAY	O			
E0.4	ELECTRICAL ONE-LINE DIAGRAM - OFFICE	O			
E0.5	ELECTRICAL SITE PLAN	O			
E0.6	ELECTRICAL LIGHT FIXTURE SCHEDULE	O			
E0.7	ELECTRICAL DETAILS	O			
E0.8	ELECTRICAL DETAILS	O			
E0.9	ELECTRICAL DETAILS	O			
E0.10	ELECTRICAL PANEL SCHEDULES - OPERATIONS	O			
E0.11	ELECTRICAL PANEL SCHEDULES - OPERATIONS	O			
E0.12	ELECTRICAL PANEL SCHEDULES - WAREHOUSE & MAINT	O			
E0.13	ELECTRICAL PANEL SCHEDULES - OFFICE	O			
E0.14	ELECTRICAL PANEL SCHEDULES - OFFICE	O			
E1.1	ELECTRICAL LIGHTING PLAN - OPERATIONS	O			
E1.2	ELECTRICAL LIGHTING PLAN - WAREHOUSE	O			
E1.3	ELECTRICAL LIGHTING PLAN - MAINTENANCE AND COVERED STORAGE	O			
E1.4	ELECTRICAL LIGHTING PLAN - OFFICE	O			
E2.1	ELECTRICAL POWER AND DATA PLAN - OPERATIONS	O			
E2.2	ELECTRICAL POWER AND DATA PLAN - WAREHOUSE	O			
E2.3	ELECTRICAL POWER AND DATA PLAN - MAINTENANCE AND COVERED STORAGE	O			
E2.4	ELECTRICAL POWER AND DATA PLAN - OFFICE	O			
E3.1	ELECTRICAL FIRE ALARM AND SECURITY PLAN - OPERATIONS	O			
E3.2	ELECTRICAL FIRE ALARM AND SECURITY PLAN - WAREHOUSE	O			
E3.3	ELECTRICAL FIRE ALARM AND SECURITY PLAN - MAINTENANCE AND COVERED STORAGE	O			
E3.4	ELECTRICAL FIRE ALARM AND SECURITY PLAN - OFFICE	O			
E4.1	ELECTRICAL EQUIPMENT PLAN - OPERATIONS	O			
E4.2	ELECTRICAL EQUIPMENT PLAN - WAREHOUSE	O			
E4.3	ELECTRICAL EQUIPMENT PLAN - MAINTENANCE AND COVERED STORAGE	O			
E4.4	ELECTRICAL EQUIPMENT PLAN - OFFICE	O			
ED1.1	ELECTRICAL DEMO LIGHTING PLAN - OPERATIONS	O			
ED2.1	ELECTRICAL DEMO PLAN - OPERATIONS	O			
ED4.1	ELECTRICAL EQUIPMENT DEMOLITION PLAN - OPERATIONS	O			

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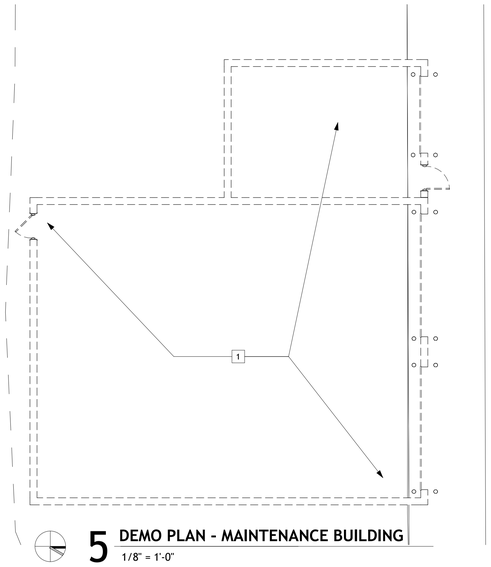
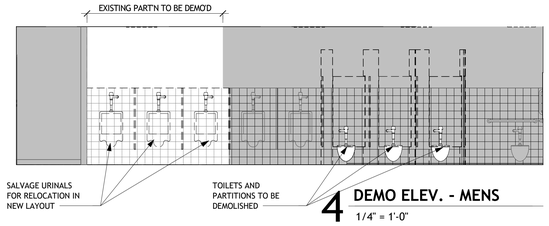
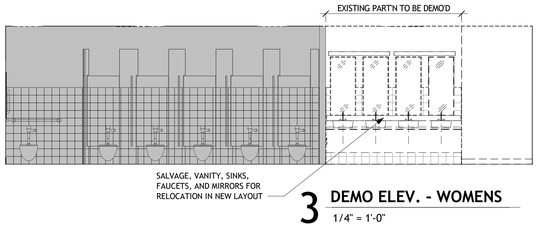


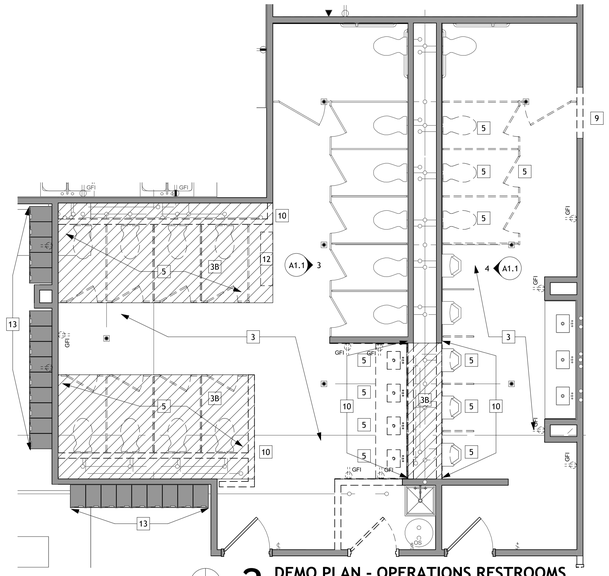
5 DEMO PLAN - MAINTENANCE BUILDING
1/8" = 1'-0"



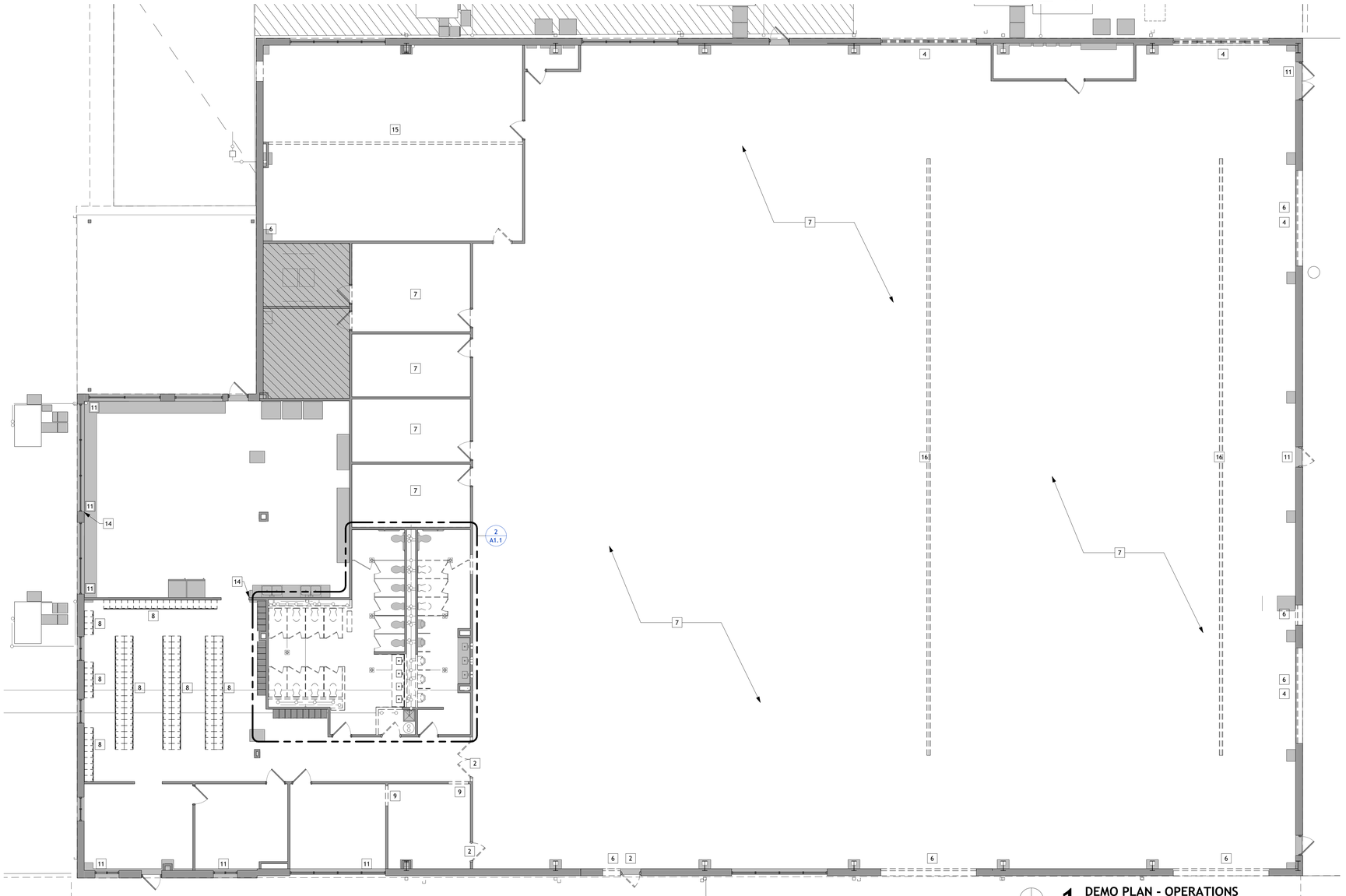
4 DEMO ELEV. - MENS
1/4" = 1'-0"



3 DEMO ELEV. - WOMENS
1/4" = 1'-0"



2 DEMO PLAN - OPERATIONS RESTROOMS
1/4" = 1'-0"



1 DEMO PLAN - OPERATIONS
1/8" = 1'-0"

DEMO PLAN GENERAL NOTES

A. PROTECT WORK TO REMAIN THROUGHOUT DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS TO PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN WHICH ARE DAMAGED OR LEFT EXPOSED DUE TO DEMOLITION AND/OR NEW CONSTRUCTION. REPAIR WORK SHALL MATCH EXISTING FINISHES AND APPEAR LIKE NEW.
B. THE OWNER MAY TAKE POSSESSION OF ANY ITEM REMOVED BY THE CONTRACTOR AND SUCH ITEMS SHALL BE TAKEN FROM THE IMMEDIATE CONSTRUCTION AREA BY THE OWNER OR STORAGE OF SUCH ITEMS SHALL BE COORDINATED BETWEEN THE OWNER AND CONTRACTOR.
C. REMOVAL OF EXISTING WALLS SHALL INCLUDE REMOVAL OF ALL RELATED ACCESSORIES INCLUDING BASE AND TRIM MOLDINGS, SHELVES AND SHELF STANDARDS, TACK/CHALK BOARDS, ETC.
D. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
E. PROVIDE TEMPORARY WEATHER/SECURITY/DUST CONTROL FOR EXISTING BUILDING TO REMAIN IN OPERATION THROUGHOUT DEMOLITION AND NEW CONSTRUCTION.
F. OWNER TO REMOVE ALL HAZARDOUS MATERIAL UNDER SEPARATE CONTRACT PRIOR TO COMMENCEMENT OF DEMOLITION.
G. SEE CIVIL FOR SITE DEMOLITION WORK.
H. SOME DEMOLITION ITEMS MAY APPEAR ON OTHER DRAWINGS. REFER TO THE COMPLETE SET OF DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.
I. COORDINATE SEQUENCE OF DEMOLITION WITH CONSTRUCTION PHASING REQUIREMENTS FOR PORTIONS OF EXISTING BUILDINGS TO REMAIN OCCUPIED BY OWNER DURING CONSTRUCTION.

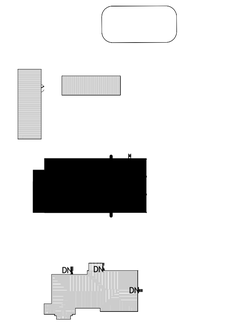
DEMO PLAN LEGEND

- PARTITIONS, INCLUDING ALL ASSOCIATED ELEC., MECH., PLBG., & F.P. SERVICES AND DEVICES TO BE REMOVED
- EXISTING DOOR & FRAME TO BE REMOVED AND SALVAGED - SEE DOOR SCHED. FOR LOCATION OF RELOCATED DOORS AND FRAMES
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR & FRAME TO REMAIN
- SHADED AREAS NO WORK

DEMO PLAN KEYED NOTES

X

1 REMOVE EXISTING BUILDING SHOWN DASHED IN ITS ENTIRETY INCLUDING ROOFS, CEILINGS, WALLS, FLOORS, FOUNDATIONS & FOOTINGS, PLUMBING, HVAC, ELECTRICAL, ETC. SEE ALL DISCIPLINES FOR COMPLETE SCOPE OF WORK.
2 REMOVE EXISTING DOOR, FRAME AND HARDWARE SHOWN DASHED.
3 REMOVE EXISTING FLOORING AND BASE IN THIS ROOM. SEE PLAN FOR EXTENTS.
3B TILE FLOORING TO BE REMOVED SHOWN HATCHED. PREP FLOOR FOR NEW FLOORING.
4 REMOVE EXISTING EXTERIOR GLAZING SYSTEM, TRIM, SILLS, SEALANT, AND ALL WINDOW TREATMENTS, INCLUDING ROLLER SHADES IN PREP. FOR NEW OH DOOR. COORD. EXTENTS OF DEMO WITH R.O. SHOWN IN DOOR SCHED.
5 REMOVE EXISTING PLUMBING FIXTURES, ACCESSORIES, TOILET PARTITIONS AND VANITY. SALVAGE NESESARY PLUMBING FIXTURES AND ACCESSORIES FOR RE-USE. CAP SANITARY AND SUPPLY LINES TO BE CONCEALED IN NEW CONSTRUCTION IF NOT OTHERWISE BEING REVISED.
6 REMOVE EXISTING EXTERIOR WALL PANEL, GIRTS, AND INSULATION OF PRE-ENGINEERED METAL BUILDING FOR NEW DOOR OPENING ALONG WITH INTERIOR FURRING. COORD. EXTENTS AND NEW PEMB FRAMING FOR OPENING WITH NEW CONSTRUCTION. SEE DOOR SCHED. FOR R.O. SIZE.
7 REMOVE EXISTING CARPET FLOOR FINISH, BASE, AND ANY SUBSTRATES OR ADHESIVES IN THIS AREA. GRIND OR SHOT BLAST AS REQUIRED FOR APPLICATION OF NEW FLOOR TREATEMENT. SALAVAGE CARPET TILE FOR REUSE AS SHOWN IN OPS FINISH PLAN.
8 REMOVE AND SALVAGE EXISTING LOCKERS TO OWNER.
9 REMOVE PORTION OF EXISTING GYP. PARTITION TO CREATE NEW ROUGH OPENING. COORD. EXTENTS WITH NEW CONSTRUCTION.
10 REMOVE ENTIRE PARTITION INCLUDING TILE WALL FINISH (+/- 5' H). COORDINATE EXTENTS AND ANY REQUIRED PATCHING WITH NEW CONSTRUCTION.
11 FIX/REPAIR WATER DAMAGED AREAS AFTER CAUSE OF WATER IS CONFIRMED AND RESOLVED.
12 EXISTING LOCKER BENCH TO BE SALVAGED.
13 EXISTING LOCKERS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
14 FIX EXISTING CRACK IN THE GYP. BD. PARTITION BY OPENING UP AND INSTALLING CONTROL JOINT. FINISH TO MATCH EXISTING WALL.
15 REMOVE ENTIRE PARTITION. COORDINATE EXTENTS AND ANY REQUIRED PATCHING WITH NEW CONSTRUCTION.
16 CUT EXISTING SLAB FOR TRENCH DRAIN. SEE FLOOR PLAN ON A2.1 FOR EXTENTS. - SEE PLUMB. FOR MORE INFO.



KEY PLAN

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DEMO PLAN - OPERATIONS & MAINTENANCE

A1.1

DEMO CEILING PLAN GENERAL NOTES

A. PROTECT WORK TO REMAIN THROUGHOUT DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS TO PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN WHICH ARE DAMAGED OR LEFT EXPOSED DUE TO DEMOLITION AND/OR NEW CONSTRUCTION. REPAIR WORK SHALL MATCH EXISTING FINISHES AND APPEAR LIKE NEW.
B. THE OWNER MAY TAKE POSSESSION OF ANY ITEM REMOVED BY THE CONTRACTOR AND SUCH ITEMS SHALL BE TAKEN FROM THE IMMEDIATE CONSTRUCTION AREA BY THE OWNER OR STORAGE OF SUCH ITEMS SHALL BE COORDINATED BETWEEN THE OWNER AND CONTRACTOR.
C. REMOVAL OF EXISTING WALLS SHALL INCLUDE REMOVAL OF ALL RELATED ACCESSORIES INCLUDING BASE AND TRIM MOLDINGS, SHELVES AND SHELF STANDARDS, TACK/CHALK BOARDS, ETC.
D. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION.
E. PROVIDE TEMPORARY WEATHER/SECURITY/DUST CONTROL FOR EXISTING BUILDING TO REMAIN IN OPERATION THROUGHOUT DEMOLITION AND NEW CONSTRUCTION.
F. OWNER TO REMOVE ALL HAZARDOUS MATERIAL UNDER SEPARATE CONTRACT PRIOR TO COMMENCEMENT OF DEMOLITION.
G. SEE CIVIL FOR SITE DEMOLITION WORK.
H. SOME DEMOLITION ITEMS MAY APPEAR ON OTHER DRAWINGS. REFER TO THE COMPLETE SET OF DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.
I. COORDINATE SEQUENCE OF DEMOLITION WITH CONSTRUCTION PHASING REQUIREMENTS FOR PORTIONS OF EXISTING BUILDINGS TO REMAIN OCCUPIED BY OWNER DURING CONSTRUCTION.

DEMO CEILING PLAN LEGEND

EXISTING CEILING AND GRID TO BE REMOVED.

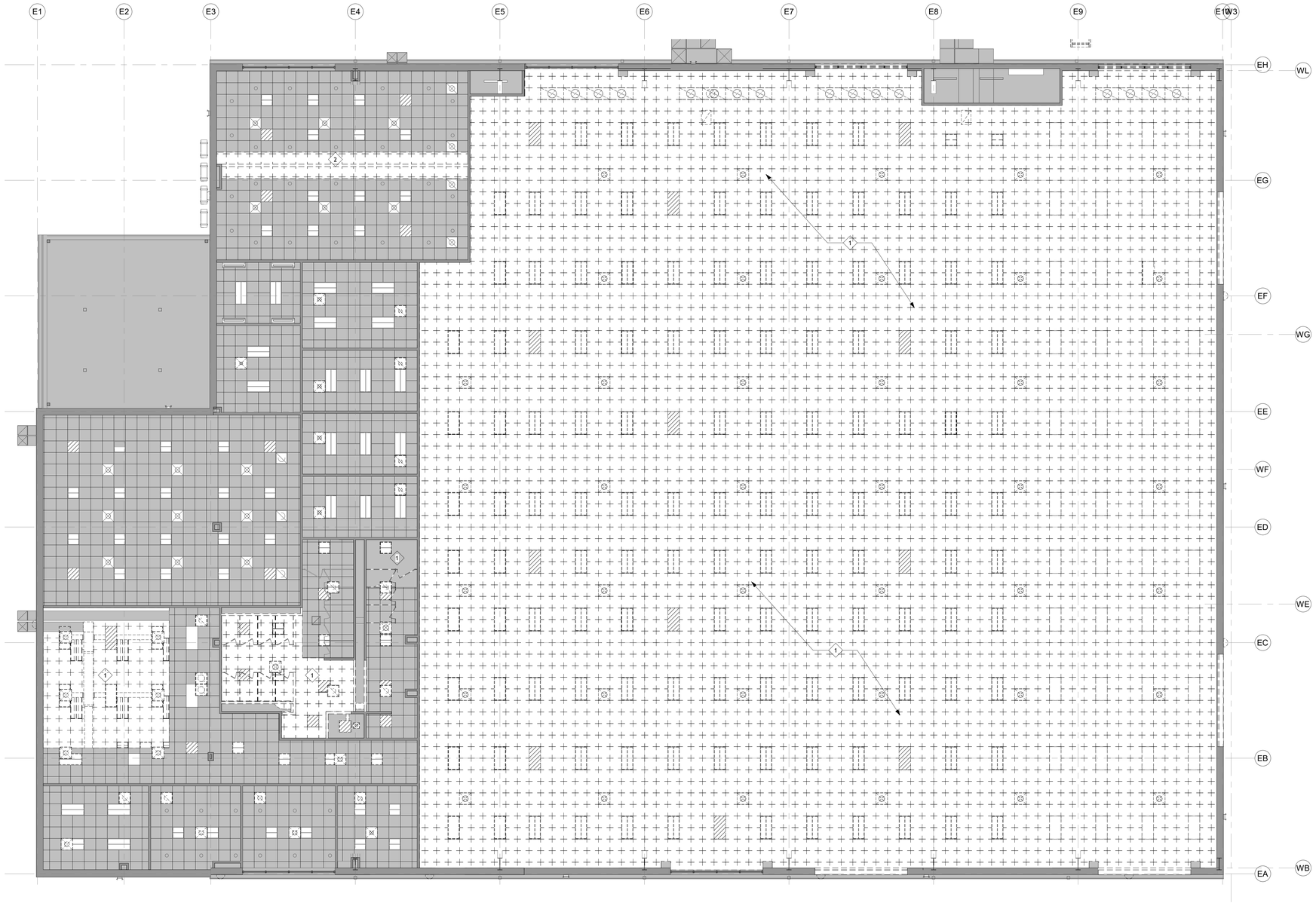
EXISTING CEILING AND GRID TO REMAIN

EXISTING SPRINKLER HEAD TO BE REMOVED. SEE FP DWGS.

EXISTING SPRINKLER HEAD TO REMAIN

DEMO CEILING PLAN KEYED NOTES

1 REMOVE EXISTING LAY-IN CEILING AND GRID IN THIS ROOM INCLUDING ANY MEPFP ITEMS INCLUDING BUT NOT LIMITED TO AIR TERMINALS, LIGHTING, FANS, SPRINKLER HEADS, AND POWER POLES. REVISE MEPFP SYSTEMS AS SHOWN IN RESPECTIVE DWGS. SALVAGE LIGHTS TO OWNER.
2 REMOVE PORTION OF EXISTING LAY-IN CEILING AND GRID TO ACCOMMODATE NEW ROOM LAYOUT. SALVAGE CEILING PADS FOR RE-INSTALL WHERE FEASIBLE. SEE RCP FOR FURTHER INFORMATION.



1 DEMO RCP - OPERATIONS
1/8" = 1'-0"

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DEMO RCP - OPERATIONS

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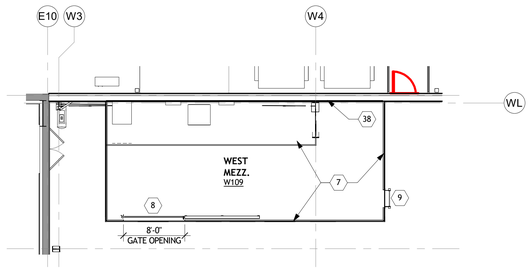
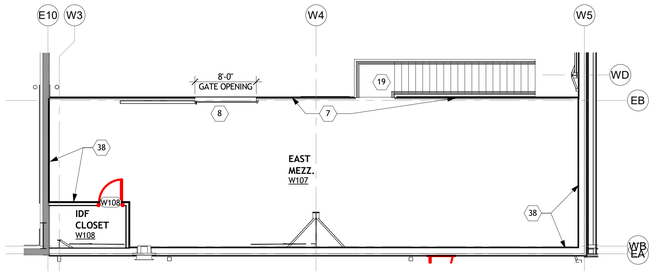


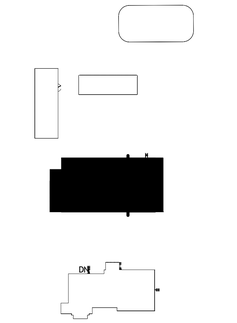
3 FLOOR PLAN - WEST OPS. MEZZ.

1/8" = 1'-0"



2 FLOOR PLAN - EAST OPS. MEZZ.

1/8" = 1'-0"



KEY PLAN

FLOOR PLAN LEGEND

- 1 HR. FIRE RATED WALL
- 2 HR. FIRE RATED WALL
- EXISTING PARTITION
- EXISTING DOOR & FRAME
- NEW PARTITION - SEE PARTITION TYPES
- NEW OR RELOCATED DOOR & FRAME (SEE DOOR SCHED.)
- D.S. ROOF DOWNSPOUT - SEE SHT. A2.X FOR SIZE AND CIVIL FOR TERMINATION
- CR CARD READER- COORDINATE REQ. W/ OWNER
- C.J. GYP. BD. CONTROL JOINT - SEE PARTITION DETAILS
- LEAN CONC. FROM BELOW EXT. FLATWORK TO FROST LINE. EXTEND 5' PERPENDICULAR TO EXT. WALL AND FOR WIDTH OF DOOR AT A MIN.
- FD FLOOR DRAIN - SEE PLUMBING
- FEB FIRE EXTINGUISHER - BRACKET MOUNTED
- FEC FIRE EXTINGUISHER CABINET - SEMI-RECESSED

EQUIPMENT KEYED NOTES

E#	DESCRIPTION	MANUF.	B.O.D. MODEL	B.O.D.	PURCHASE / INSTALL
E1	BOOT DRYER. SEE ELEC. FOR REQ.				
E2	ELEC. WASHER. SEE ELEC. / PLUMBING				
E3	ELEC. TOP LOAD DRYER. SEE MEP.				
E4	STANDALONE ICE MACHINE. SEE ELEC. / PLUMBING FOR REQ.				
E5	FLAT TOP GRIDDLE. SEE MECH. / ELEC. FOR REQ.				
E6	COPIER / PRINTER. SEE ELEC.	BY OWNER	BY OWNER		OPOI
E7	4' X 4' IN FLOOR SCALE W/ DIGITAL WEIGHT INDICATOR. SEE STRUCT. / ELEC.	ROUGHDECK	66316		CPCI
E8	WALL MOUNTED MONITOR. PROVIDE REQ. BLOCKING, BRACKET, POWER, AND DATA IN PARTITION. SEE A/V AND ELEC. CONFIRM FINAL LOCATION W/ OWNER.				
E9	COMMERCIAL GRADE REFRIGERATOR / FREEZER.				
E10	48" W x 36"H WHITEBOARD				
E11	MOBILE VEHICLE LIFT - 18,000 LBS CAPACITY EA.; SEE ELEC. DWGS. FOR POWER	ROTARY LIFT	MCH219 FLEX		
E12	2-POST VEHICLE LIFT - 16,000 LBS CAPACTIY; SEE ELEC. DWGS. FOR POWER	ROTARY LIFT	SPO16		

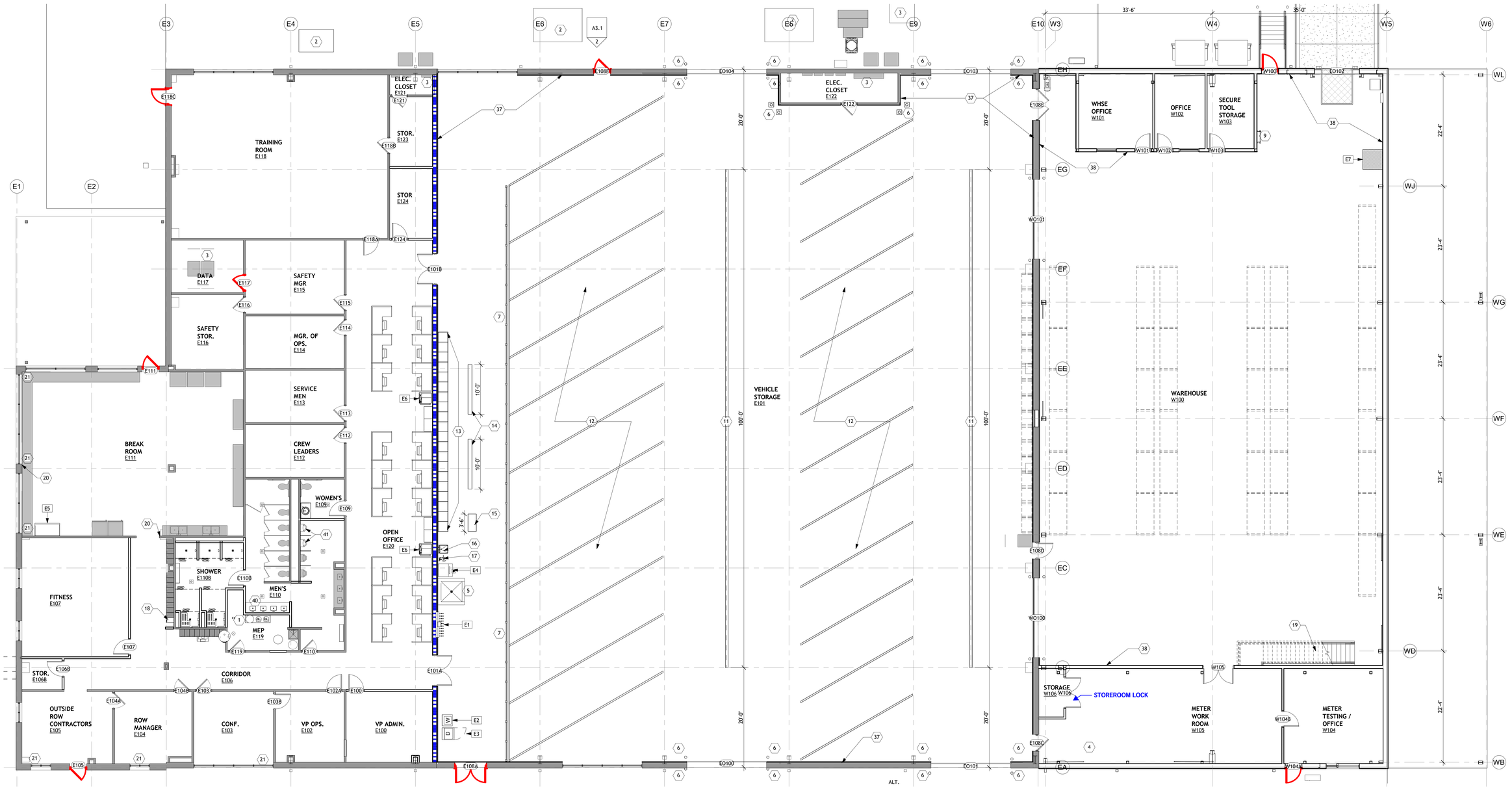
FLOOR PLAN GENERAL NOTES

A. ALL PARTITIONS TO BE TYPE G3/D/5, UNO
B. ALL FURRED COLUMNS TO BE TYPE F1/T/-- UNO, AND TO BE HELD TIGHT TO STRUCTURAL COLUMN AND/OR MEP SYSTEMS.
C. PROVIDE ADA COMPLIANT ROOM SIGNAGE FOR EA. ROOM, INCLUDING ROOM NUMBERS & INTERCHANGEABLE NAME PLATE

PLAN KEYED NOTES

X

1 PLUMB. EQUIP.; SEE PLUMB. DWGS.
2 MECH. EQUIP.; SEE MECH. DWGS.
3 ELEC. EQUIP.; SEE ELEC. DWGS.
4 FIRE PROTECTECTION EQUIP.; SEE FP DWGS.
5 4' W. X 4' D. X 4' H. CMU BOOTWASH WITH HIGH PERFORMANCE COATING; SEE STRUCT. DWGS. & DTL.
6 BOLT DOWN BOLLARDS W/ PRE-FIN. COVER; SEE DTL.
7 42" H. STL. PIPE RAILING W/ TOE KICK, PTD.; SEE DTL.
8 HORIZ. MANUAL SLIDING MEZZANINE GATE; B.O.D. EDGE FALL PROTECTION MGHEMO96042, FACE-MTD.
9 WALL MOUNTED STL. LADDER, PTD.; SEE DTL.
11 TRENCH DRAIN W/ SAND AND OIL INTERCEPTOR; SEE PLUMB. & STRUCT. DWGS.
12 STRIPPING SHOWN TO INDICATE VEHICLE SPACING.
13 24'x24'x72" SINGLE-TIER VENTILATED METAL LOCKER W/ SLOPED TOP & Z-BASE.
14 FLOOR MOUNTED WOOD BENCH.
15 FLOOR MOUNTED WOOD BENCH W/ ADA COMPLIANT BACK.
16 UTILITY SINK - SEE PLUMB. DWGS.
17 EMERGENCY EYE WASH - SEE PLUMB. DWGS.
18 SALVAGED AND RELOCATED LOCKER. REPLACE ANY EXISTING LOCKERS THAT ARE DAMAGED.
19 CONC. FILLED METAL PAN STAIRS W/ PTD. STL. PIPE GUARDS AND HANDRAILS.
20 CRACK IN THE GYP. BD. PATCH AND INSTALL CONTROL JOINT.
21 FIX/REPAIR WATER DAMAGED AREAS AFTER CAUSE OF WATER IS CONFIRMED AND RESOLVED.
37 PRE-FIN LINER PANEL 8' H. A.F.F. ATTACHED TO EXISTING FURRING.
38 PRE-FIN LINER PANEL 8' H. A.F.F.
40 SALVAGED AND RELOCATED VANITY WITH SINKS, FAUCETS, AND COUNTERTOP W/ SIDE AND BACK SPLASH.
41 SALVAGED AND RELOCATED URINALS.



1 FLOOR PLAN - OPERATIONS

1/8" = 1'-0"

M+H ARCHITECTS

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D.B.A. M+H Architects
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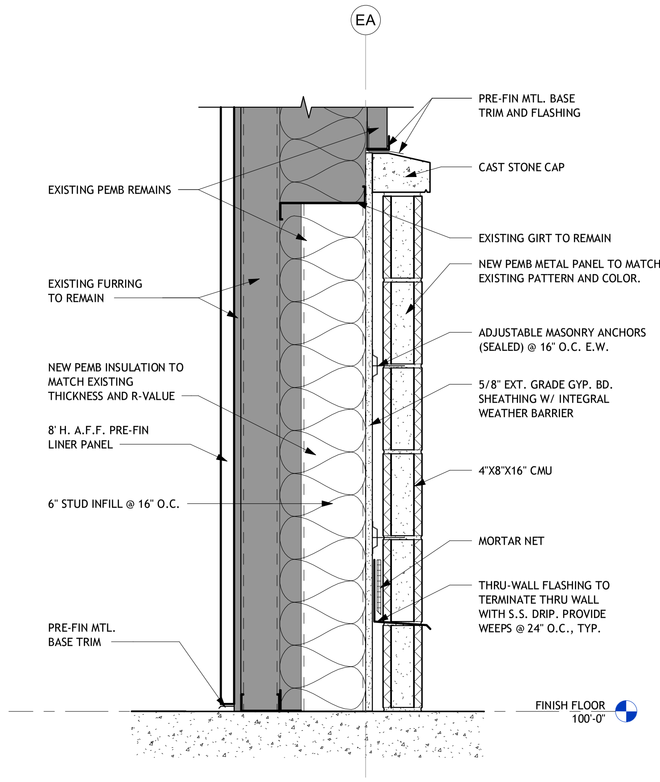
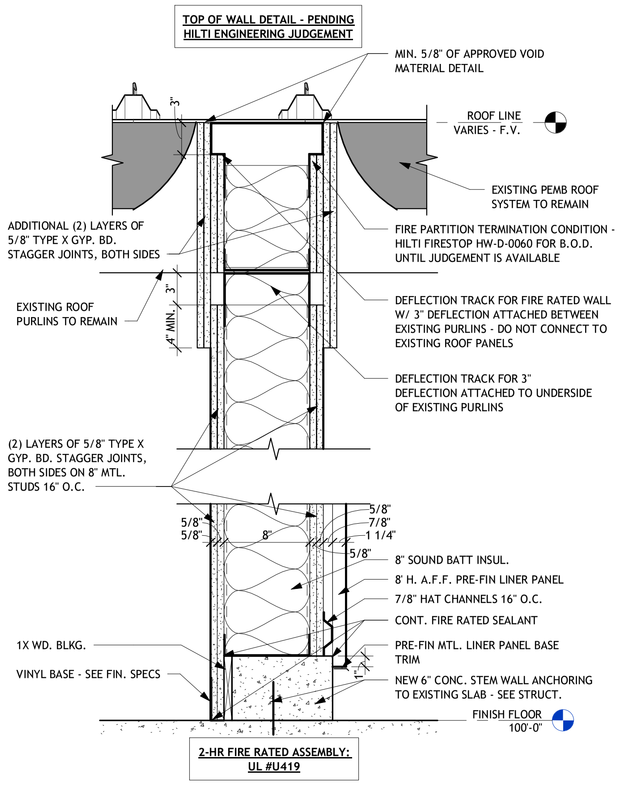
FLOOR PLAN - OPERATIONS

A2.1



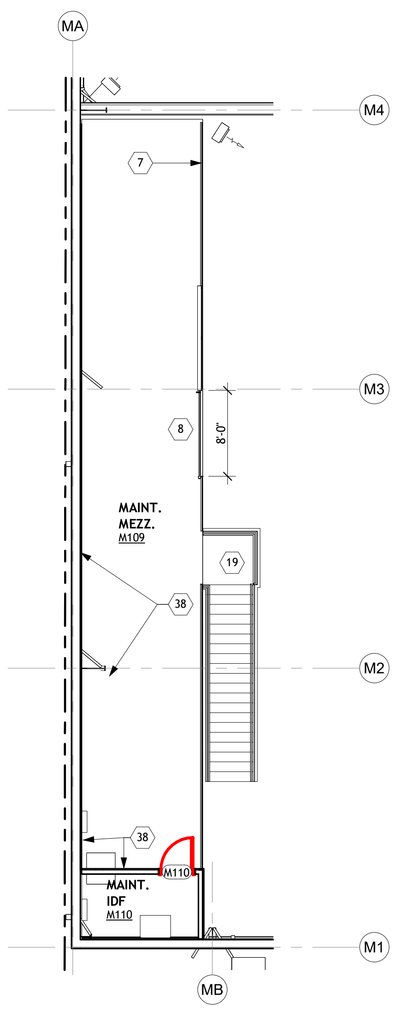
5 ALT. PEMB WAINSCOT WALL DTL.

1 1/2" = 1'-0"



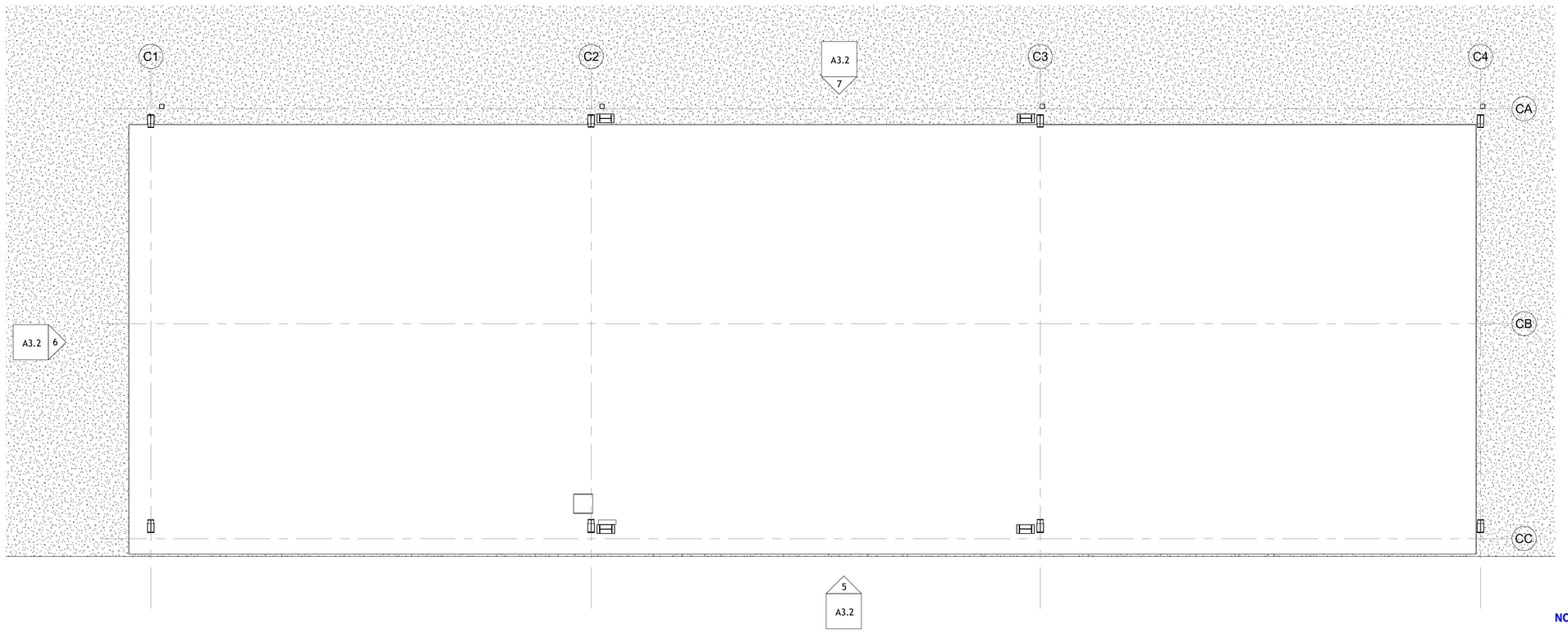
4 RATED WALL @ OPS

1 1/2" = 1'-0"



3 FLOOR PLAN - MAINTENANCE MEZZ.

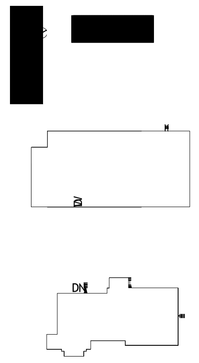
1/8" = 1'-0"



2 FLOOR PLAN - COVERED STORAGE

1/8" = 1'-0"

KEY PLAN MAINT. & CS



FLOOR PLAN LEGEND

- 1 HR. FIRE RATED WALL
- 2 HR. FIRE RATED WALL
- EXISTING PARTITION
- EXISTING DOOR & FRAME
- NEW PARTITION - SEE PARTITION TYPES
- NEW OR RELOCATED DOOR & FRAME (SEE DOOR SCHED.)
- D.S. ROOF DOWNSPOUT - SEE SHT. A2.X FOR SIZE AND CIVIL FOR TERMINATION
- CR CARD READER- COORDINATE REQ. W/ OWNER
- C.J. GYP. BD. CONTROL JOINT - SEE PARTITION DETAILS
- LEAN CONC. FROM BELOW EXT. FLATWORK TO FROST LINE, EXTEND 5' PERPENDICULAR TO EXT. WALL AND FOR WIDTH OF DOOR AT A MIN.
- FD FLOOR DRAIN - SEE PLUMBING
- FEB FIRE EXTINGUISHER - BRACKET MOUNTED
- FEC SEMI-RECESSED FIRE EXTINGUISHER CABINET

EQUIPMENT KEYED NOTES

E#	DESCRIPTION	MANUF. B.O.D.	MODEL B.O.D.	PURCHASE / INSTALL
E1	BOOT DRYER. SEE ELEC. FOR REQ.			
E2	ELEC. WASHER. SEE ELEC. / PLUMBING			
E3	ELEC. TOP LOAD DRYER. SEE MEP.			
E4	STANDALONE ICE MACHINE. SEE ELEC. / PLUMBING FOR REQ.			
E5	FLAT TOP GRIDDLE. SEE MECH. / ELEC. FOR REQ.			
E6	COPIER / PRINTER. SEE ELEC.	BY OWNER	BY OWNER	OPOI
E7	4' X 4' IN FLOOR SCALE W/ DIGITAL WEIGHT INDICATOR. SEE STRUCT. / ELEC.	ROUGHDECK	66316	CPCI
E8	WALL MOUNTED MONITOR. PROVIDE REQ. BLOCKING, BRACKET, POWER, AND DATA IN PARTITION. SEE A/V AND ELEC. CONFIRM FINAL LOCATION W/ OWNER.			
E9	COMMERCIAL GRADE REFRIGERATOR / FREEZER.			
E10	48" W x 36"H WHITEBOARD			
E11	MOBILE VEHICLE LIFT - 18,000 LBS CAPACITY EA.; SEE ELEC. DWGS. FOR POWER	ROTARY LIFT	MCH219 FLEX	
E12	2-POST VEHICLE LIFT - 16,000 LBS CAPACTIY; SEE ELEC. DWGS. FOR POWER	ROTARY LIFT	SPO16	

FLOOR PLAN GENERAL NOTES

A. ALL PARTITIONS TO BE TYPE G3/D/5, UNO
B. ALL FURRED COLUMNS TO BE TYPE F1/T/-- UNO, AND TO BE HELD TIGHT TO STRUCTURAL COLUMN AND/OR MEP SYSTEMS.
C. PROVIDE ADA COMPLIANT ROOM SIGNAGE FOR EA. ROOM, INCLUDING ROOM NUMBERS & INTERCHANGEABLE NAME PLATE

PLAN KEYED NOTES

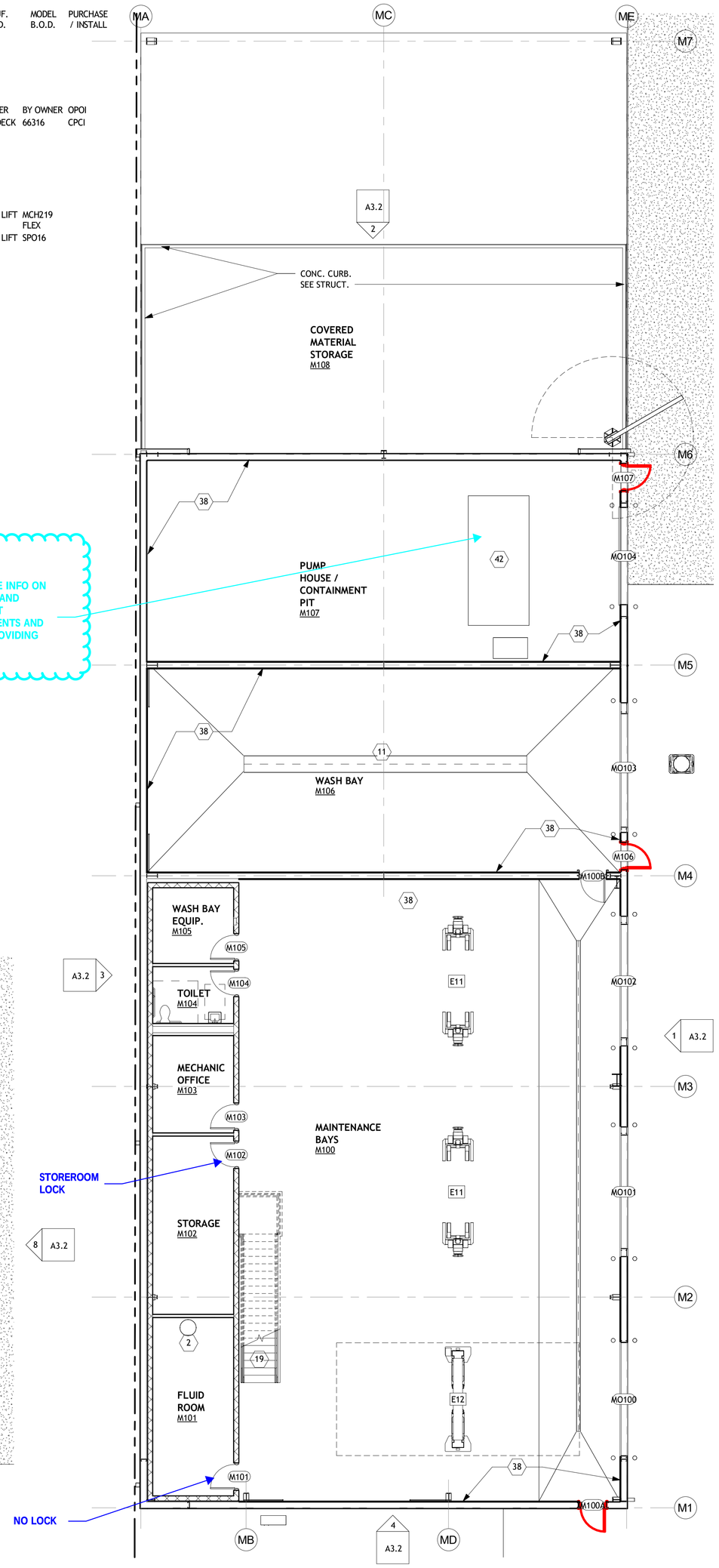
X

2 MECH. EQUIP.; SEE MECH. DWGS.
7 42" H. STL. PIPE RAILING W/ TOE KICK, PTD.; SEE DTL.
8 HORIZ. MANUAL SLIDING MEZZANINE GATE; B.O.D. EDGE FALL PROTECTION MGHEMO96042, FACE-MTD.
11 TRENCH DRAIN W/ SAND AND OIL INTERCEPTOR; SEE PLUMB. & STRUCT. DWGS.
19 CONC. FILLED METAL PAN STAIRS W/ PTD. STL. PIPE GUARDS AND HANDRAILS.
38 PRE-FIN LINER PANEL 8' H. A.F.F.
42 7'-6" X 16' X 16 1/2"D CONTAINMENT PIT W/ TRAFFIC RATED GRATING. SEE STRUCT. / PLUMBING

NEED MORE INFO ON DRAINAGE AND EQUIPMENT REQUIREMENTS AND WHO IS PROVIDING WHAT

STOREROOM LOCK

NO LOCK



1 FLOOR PLAN - MAINTENANCE

1/8" = 1'-0"

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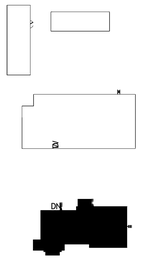
FLOOR PLAN - MAINTENANCE & COVERED STORAGE

A2.2



KEY PLAN OFFICE HQ

FLOOR PLAN LEGEND

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- EXISTING DOOR & FRAME
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E5	FLAT TOP GRIDDLE. SEE MECH. / ELEC. FOR REQ.			
E6	COPIER / PRINTER. SEE ELEC.			
E7	4' X 4' IN FLOOR SCALE W/ DIGITAL WEIGHT INDICATOR. SEE STRUCT. / ELEC.	BY OWNER ROUGHDECK	BY OWNER 66316	OPOI CPCI
E8	WALL MOUNTED MONITOR. PROVIDE REQ. BLOCKING, BRACKET, POWER, AND DATA IN PARTITION. SEE A/V AND ELEC. CONFIRM FINAL LOCATION W/ OWNER.			
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E10	48" W x 36"H WHITEBOARD			
E11	MOBILE VEHICLE LIFT - 18,000 LBS CAPACITY EA.; SEE ELEC. DWGS. FOR POWER	ROTARY LIFT	MCH219 FLEX	
E12	2-POST VEHICLE LIFT - 16,000 LBS CAPACTIY; SEE ELEC. DWGS. FOR POWER	ROTARY LIFT	SPO16	

FLOOR PLAN GENERAL NOTES

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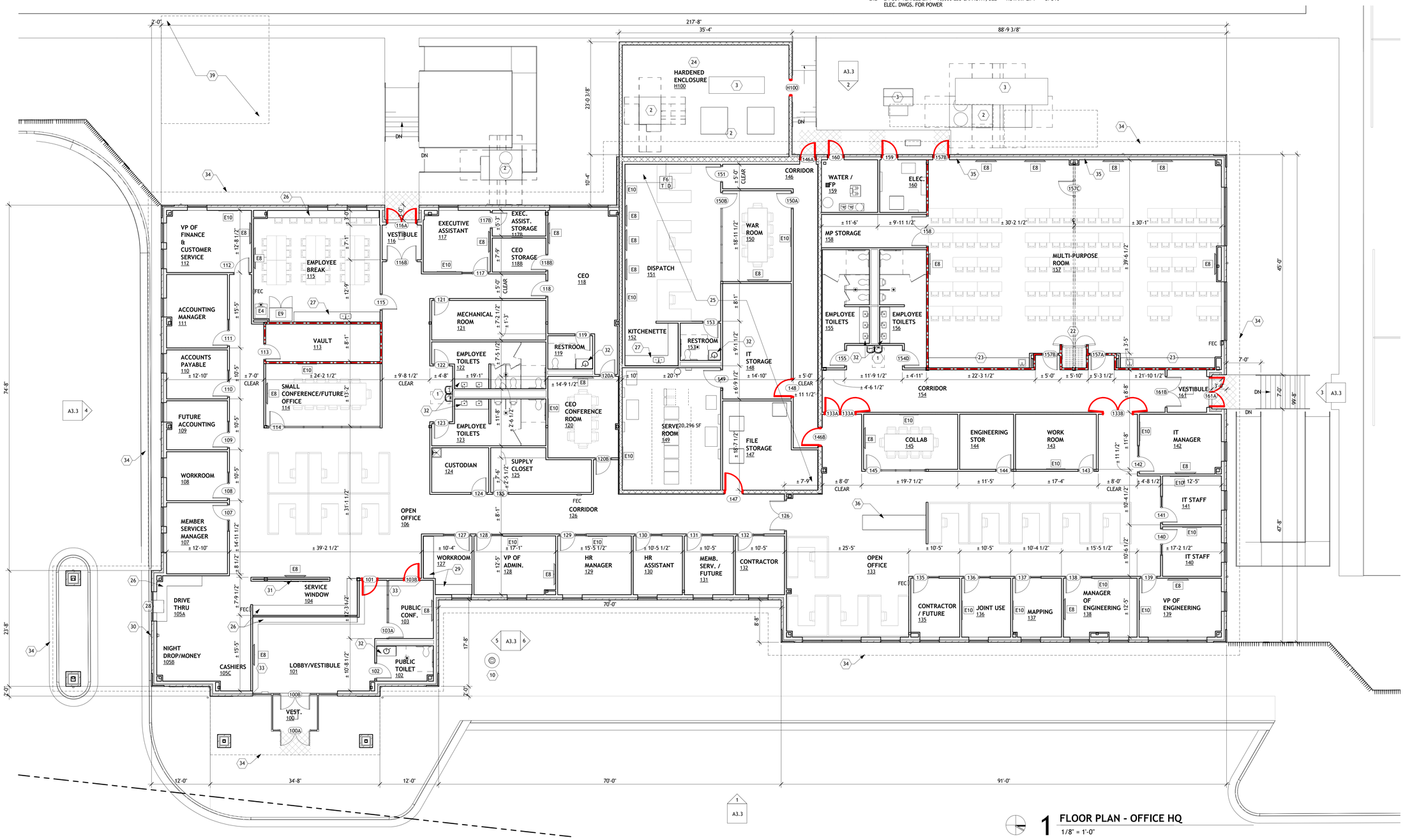
B. ALL FURRED COLUMNS TO BE TYPE F1/T/-- UNO, AND TO BE HELD TIGHT TO STRUCTURAL COLUMN AND/OR MEP SYSTEMS.
C. PROVIDE ADA COMPLIANT ROOM SIGNAGE FOR EA. ROOM, INCLUDING ROOM NUMBERS & INTERCHANGEABLE NAME PLATE

PLAN KEYED NOTES

(X)

1 PLUMB. EQUIP.; SEE PLUMB. DWGS.
2 MECH. EQUIP.; SEE MECH. DWGS.
3 ELEC. EQUIP.; SEE ELEC. DWGS.
10 30' H. FLAGPOLE W/ 5'X8' AMERICAN FLAG AND 4'X6' KENTUCKY FLAG; SEE DTL.
22 MANUAL OPERATED, PAIRED OPERABLE PARTITION PANELS WITH PASS-THRU DOOR AND POCKET DOORS.
23 SOLID SURFACE COUNTERTOP, PLASTIC LAMINATE BASE CABINETS, (2) UNDERCOUNTER REFRIGERATORS AND AN UNDERMOUNT SINK.
24 HARDENED ENCLOSURE. RATED UP TO 250 MPH WINDS. SEE STRUCT. DWGS.
25 HARDENED CONSTRUCTION. RATED UP TO 250 MPH WINDS. SEE STRUCT. DWGS.
26 SOLID SURFACE COUNTERTOP.
27 PLASTIC LAMINATE BASE AND WALL CABINETS W/ SOLID SURFACE COUNTERTOP AND UNDERMOUNT S.S. DOUBLE BOWL SINK.
28 BULLET RESISTANT 3'X6' DRIVE-THRU WINDOW W/ DEAL DRAWER. SEE OUTLINE SPEC. FOR MORE INFO.
29 PLASTIC LAMINATE BASE AND WALL CABINETS WITH COUNTERTOP.
30 SECURE AFTER HOURS ENVELOPE DROP BOX.
31 OWNER PROVIDED SIGNAGE. ALUM. LETTERS ON STANDOFFS.
32 SOLID SURFACE VANITY WITH UNDERMOUNT SINKS AND PLASTIC LAMINATE SKIRTS.
33 EXTENTS OF BULLET-RESISTANT (LVL. 3) GLAZING AND WALL PANELS AS REQ. TO PROTECT FROM FINISH FLOOR RO 7' A.F.F.
34 ROOF LINE DASHED ABOVE.
35 RESILIENT CHANNEL & SOUND ATTENUATION BATTS ON MULTIPURPOSE PLAN NORTH WALL ONLY.
36 SOLID SURFACE COUNTERTOP ISLAND WITH (4) PLASTIC LAMINATE LATERAL FILE CABINET.
39 EXTENTS OF PROPOSED COMM. TOWER



1 FLOOR PLAN - OFFICE HQ
1/8" = 1'-0"

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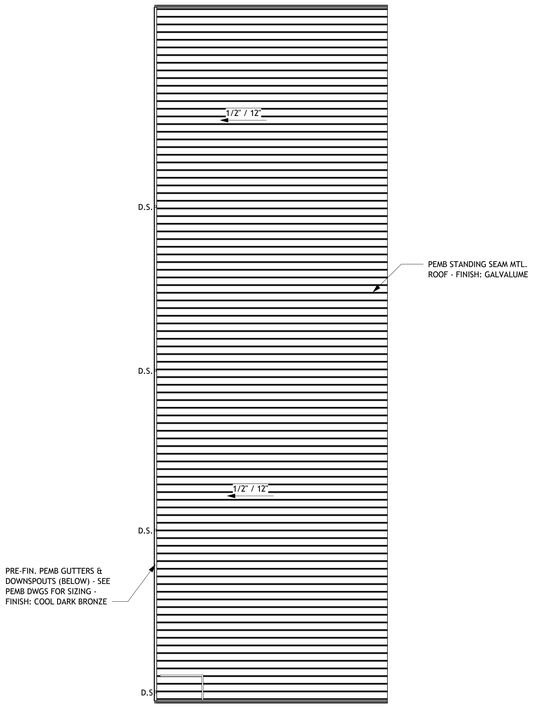
FLOOR PLAN - OFFICE HQ

A2.3

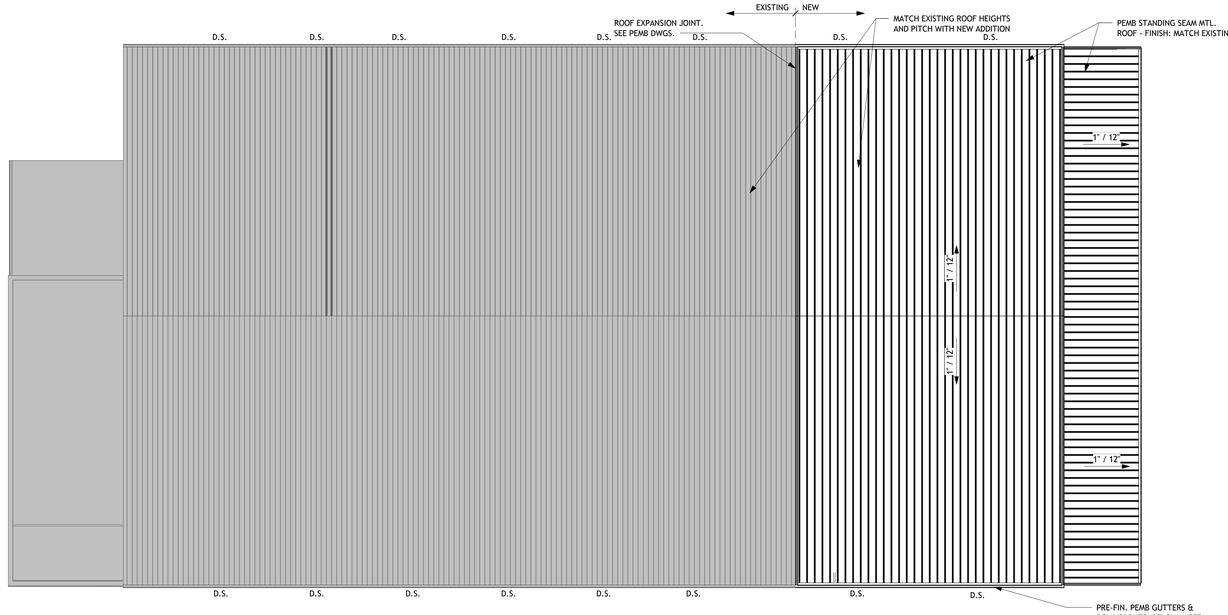
ROOF GENERAL NOTES

ROOF SYSTEM: THE OFFICE ROOF TO BE PREFINISHED STANDING SEAM METAL ROOF ON WEATHER BARRIER MEMBRANE OVER 1/2" COVERBOARD ON 2 LAYERS OF POLYISO ROOF INSULATION W/ STAGGERED JOINTS. (LTTR MIN. 34.8).

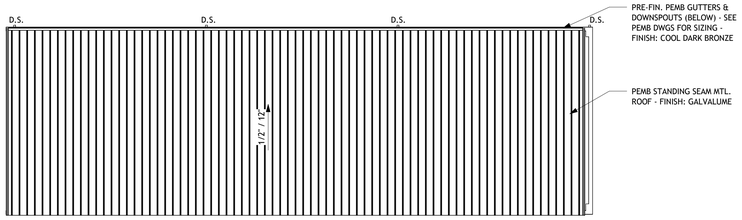
A. THE STANDING SEAM ROOF IS DESIGNED TO HAVE ZERO PENETRATIONS
B. ALL SHEET METAL SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT 'SMACNA' STANDARDS.
C. PROVIDE CONTINUOUS ICE & WATER SHIELD OVER ENTIRE OFFICE ROOF.
D. PIPE ALL DOWNSPOUTS TO UNDERGROUND STORM SEWER. SEE CIVIL.



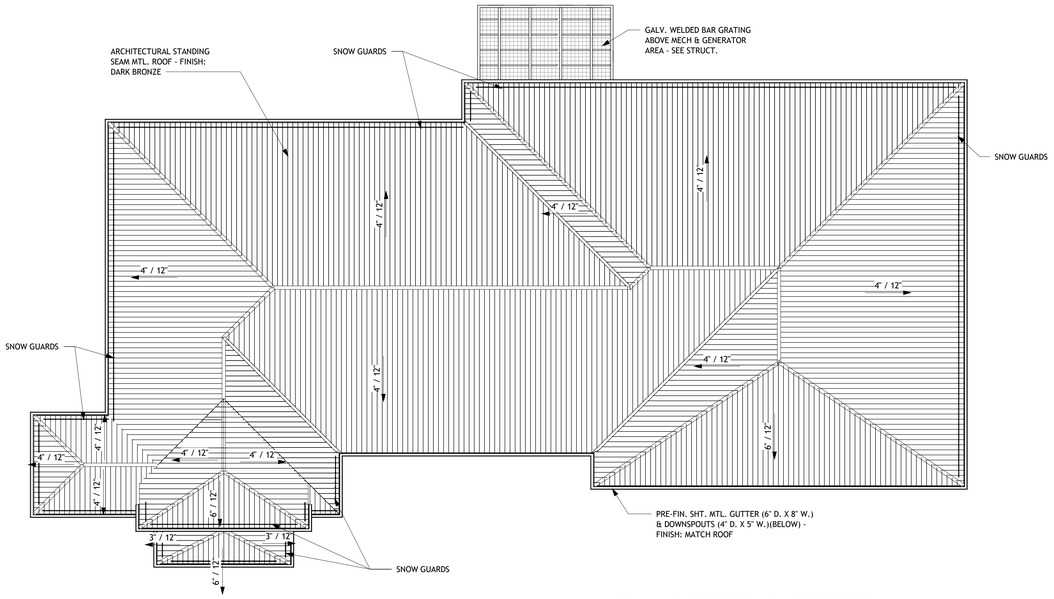
4 **ROOF PLAN - MAINTENANCE**
1/16" = 1'-0"



3 **ROOF PLAN - OPERATIONS**
1/16" = 1'-0"



2 **ROOF PLAN - COVERED STORAGE**
1/16" = 1'-0"



1 **ROOF PLAN - OFFICE HQ**
1/16" = 1'-0"

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ROOF PLAN

A2.7

GENERAL ELEVATION NOTES:

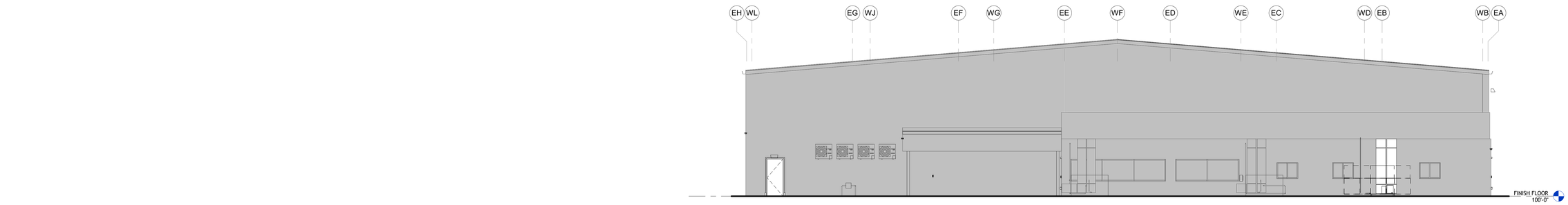
A. PRE-FINISHED METAL ROOF EDGE AND GUTTERS TO MATCH ROOF COLOR AS SELECTED BY ARCHITECT FROM MANUF. FULL LINE OF COLORS.
B. PATCH NEW WALL OPENING IN EXISTING PEMB WALL PANELS FOR MEPFP WORK AS REQ. PROVIDE STANDARD TRIM PIECES

EXTERIOR MATERIAL LEGEND - PEMB

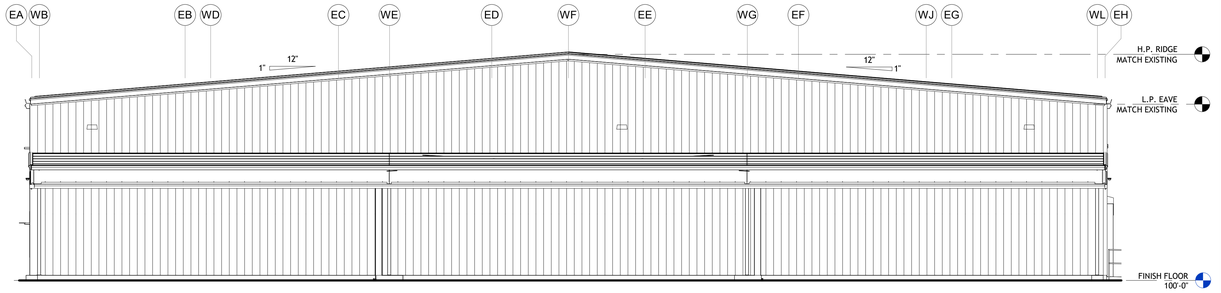
- EXISTING
- PEMB WALL PANEL
  MFG: VARCO PRUDEN OR EQUAL
  PRODUCT: PANEL RIB

EXTERIOR MATERIAL LEGEND - OFFICE

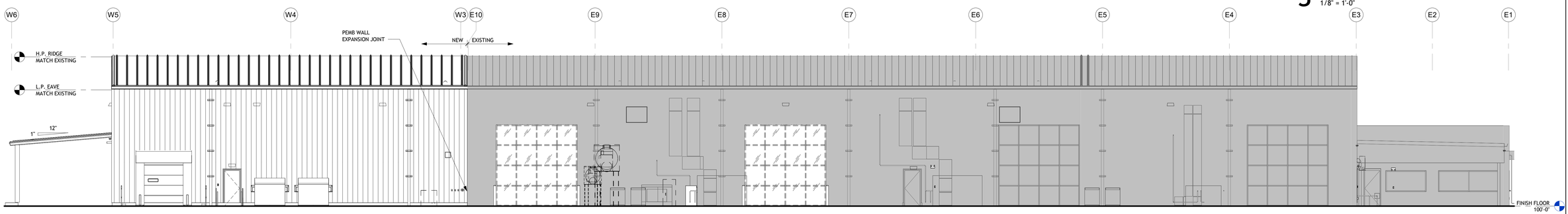
- BRICK - FIELD
- BRICK - ACCENT
- IGU-1
  INSULATED GLASS UNITS - 1
  NOTE: TINTED W/ LOW-E COATING IN THERMALLY BROKEN STOREFRONT



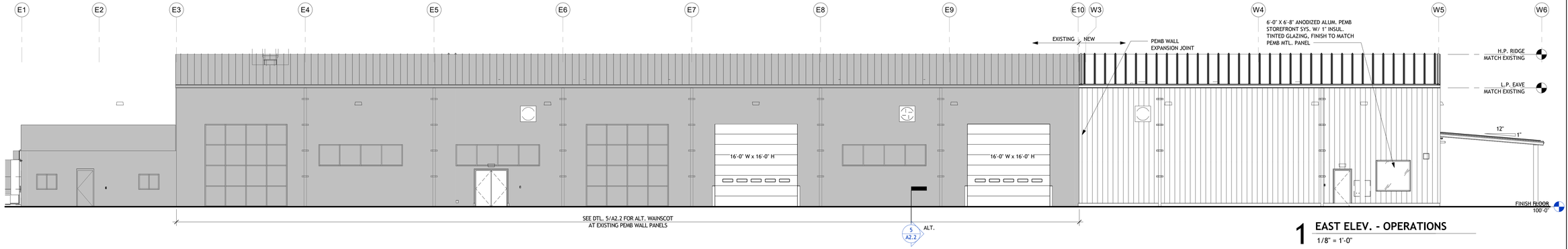
4 **SOUTH ELEV. - OPERATIONS**
1/8" = 1'-0"



3 **NORTH ELEV. - OPERATIONS**
1/8" = 1'-0"



2 **WEST ELEV. - OPERATIONS**
1/8" = 1'-0"



1 **EAST ELEV. - OPERATIONS**
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ELEVATIONS - OPERATIONS

A3.1

GENERAL ELEVATION NOTES:

A. PRE-FINISHED METAL ROOF EDGE AND GUTTERS TO MATCH ROOF COLOR AS SELECTED BY ARCHITECT FROM MANUF. FULL LINE OF COLORS.
B. PATCH NEW WALL OPENING IN EXISTING PEMB WALL PANELS FOR MEPFP WORK AS REQ. PROVIDE STANDARD TRIM PIECES

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- EXISTING
- PEMB WALL PANEL
  MFG: VARCO PRUDEN OR EQUAL
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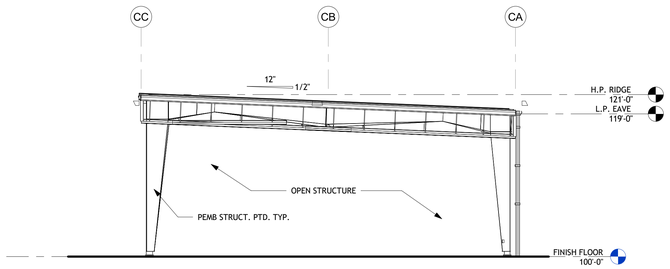
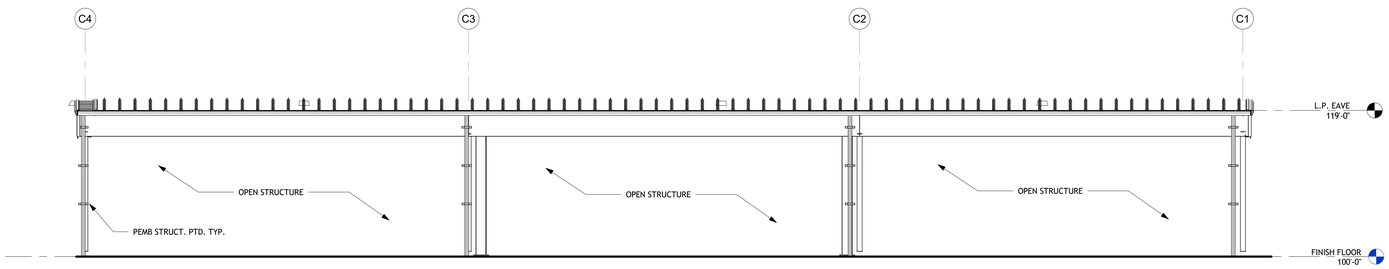


8 NORTH ELEV. - COVERED VEHICLE STORAGE
1/8" = 1'-0"



7 WEST ELEV. - COVERED VEHICLE STORAGE
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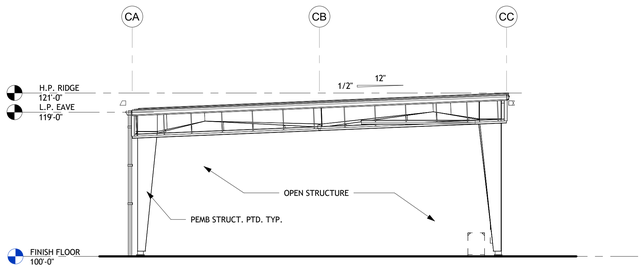

6 SOUTH ELEV. - COVERED VEHICLE STORAGE
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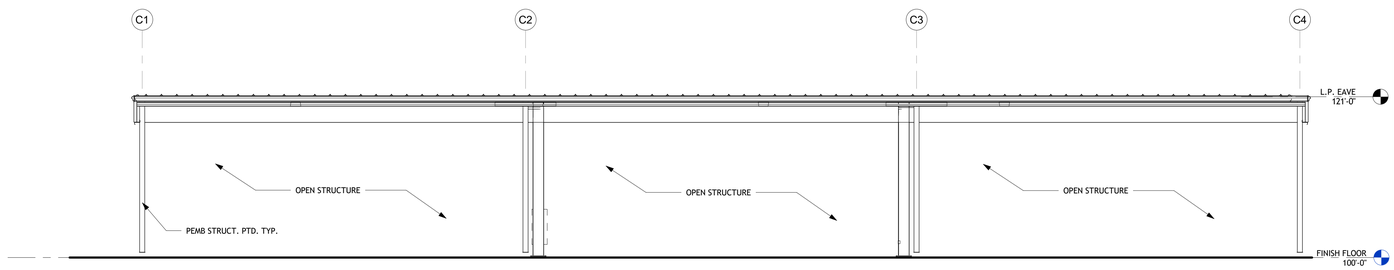
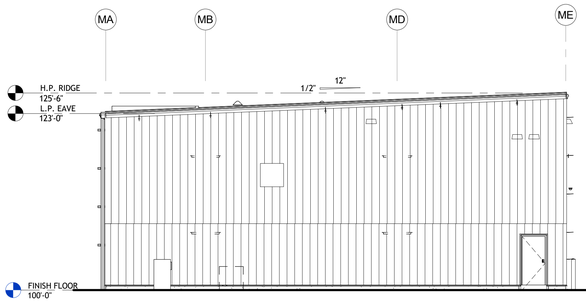
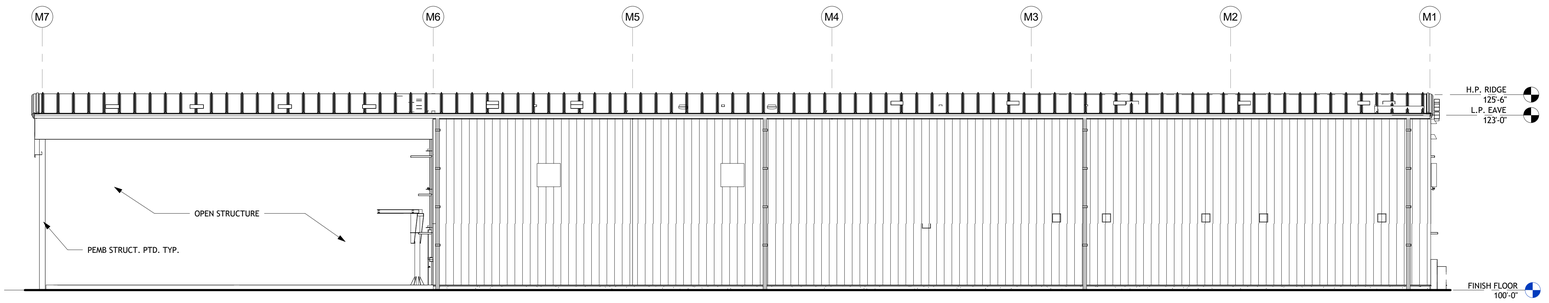


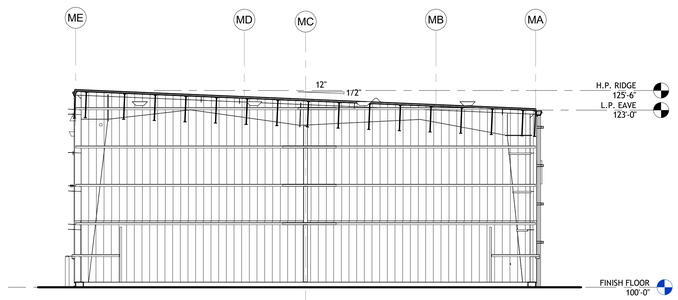
5 EAST ELEV. - COVERED VEHICLE STORAGE
1/8" = 1'-0"



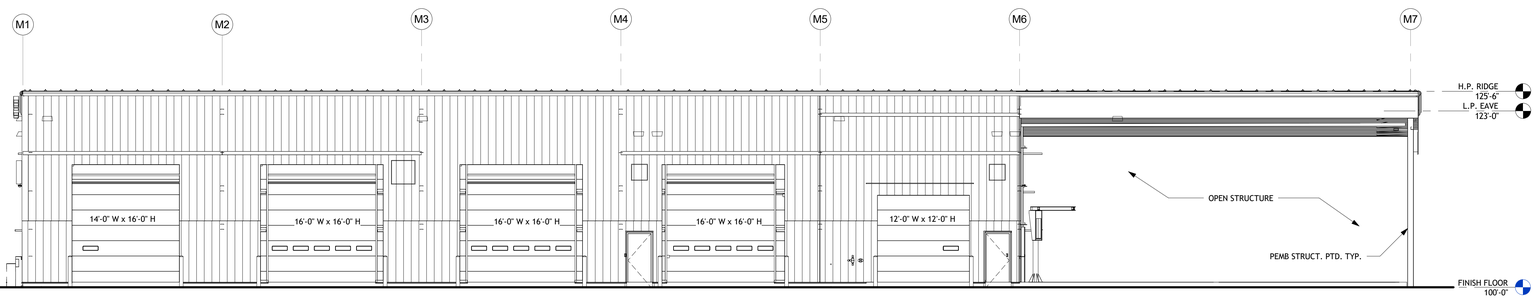
4 EAST ELEV. - MAINTENANCE BUILDING
1/8" = 1'-0"



3 SOUTH ELEV. - MAINTENANCE BUILDING
1/8" = 1'-0"



2 WEST ELEV. - MAINTENANCE BUILDING
1/8" = 1'-0"



1 NORTH ELEV. - MAINTENANCE BUILDING
1/8" = 1'-0"

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ELEVATIONS - MAINTENANCE & COVERED VS

A3.2

GENERAL ELEVATION NOTES:

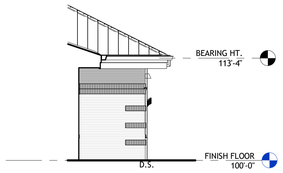
A. PRE-FINISHED METAL ROOF EDGE AND GUTTERS TO MATCH ROOF COLOR AS SELECTED BY ARCHITECT FROM MANUF. FULL LINE OF COLORS.
B. PATCH NEW WALL OPENING IN EXISTING PEMB WALL PANELS FOR MEPFP WORK AS REQ. PROVIDE STANDARD TRIM PIECES

EXTERIOR MATERIAL LEGEND - PEMB

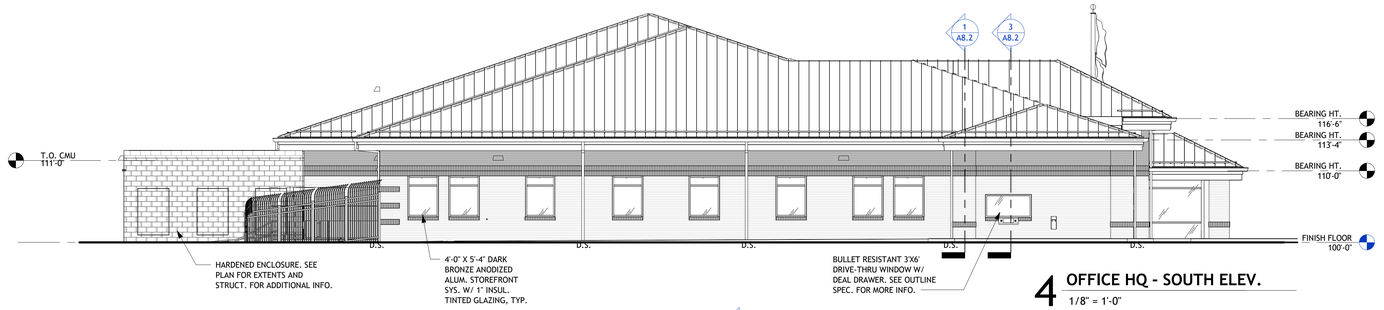
- EXISTING
- PEMB WALL PANEL
  MFG: VARCO PRUDEN OR EQUAL
  PRODUCT: PANEL RIB

EXTERIOR MATERIAL LEGEND - OFFICE

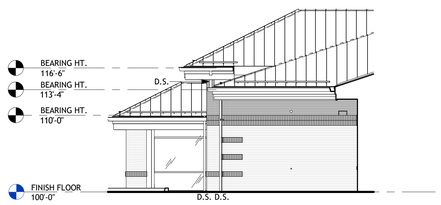
- BRICK - FIELD
- BRICK - ACCENT
- IGU-1
  INSULATED GLASS UNITS - 1
  NOTE: TINTED W/ LOW-E COATING IN THERMALLY BROKEN STOREFRONT



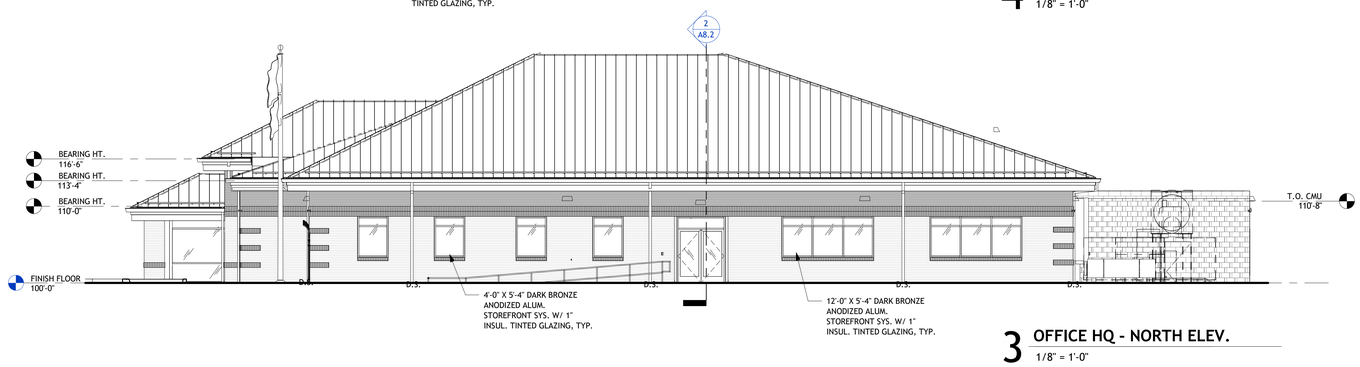
6 **OFFICE HQ - SOUTH ELEV. 2**
1/8" = 1'-0"



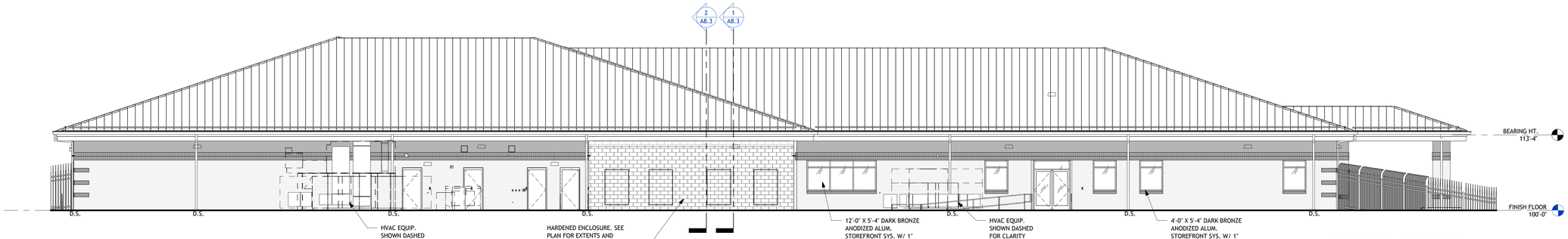
4 **OFFICE HQ - SOUTH ELEV.**
1/8" = 1'-0"



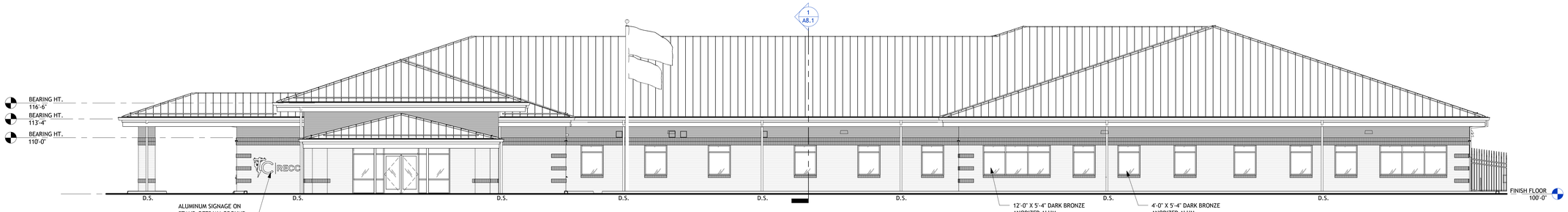
5 **OFFICE HQ - NORTH ELEV. 2**
1/8" = 1'-0"



3 **OFFICE HQ - NORTH ELEV.**
1/8" = 1'-0"



2 **OFFICE HQ - WEST ELEV.**
1/8" = 1'-0"



1 **OFFICE HQ - EAST ELEV.**
1/8" = 1'-0"

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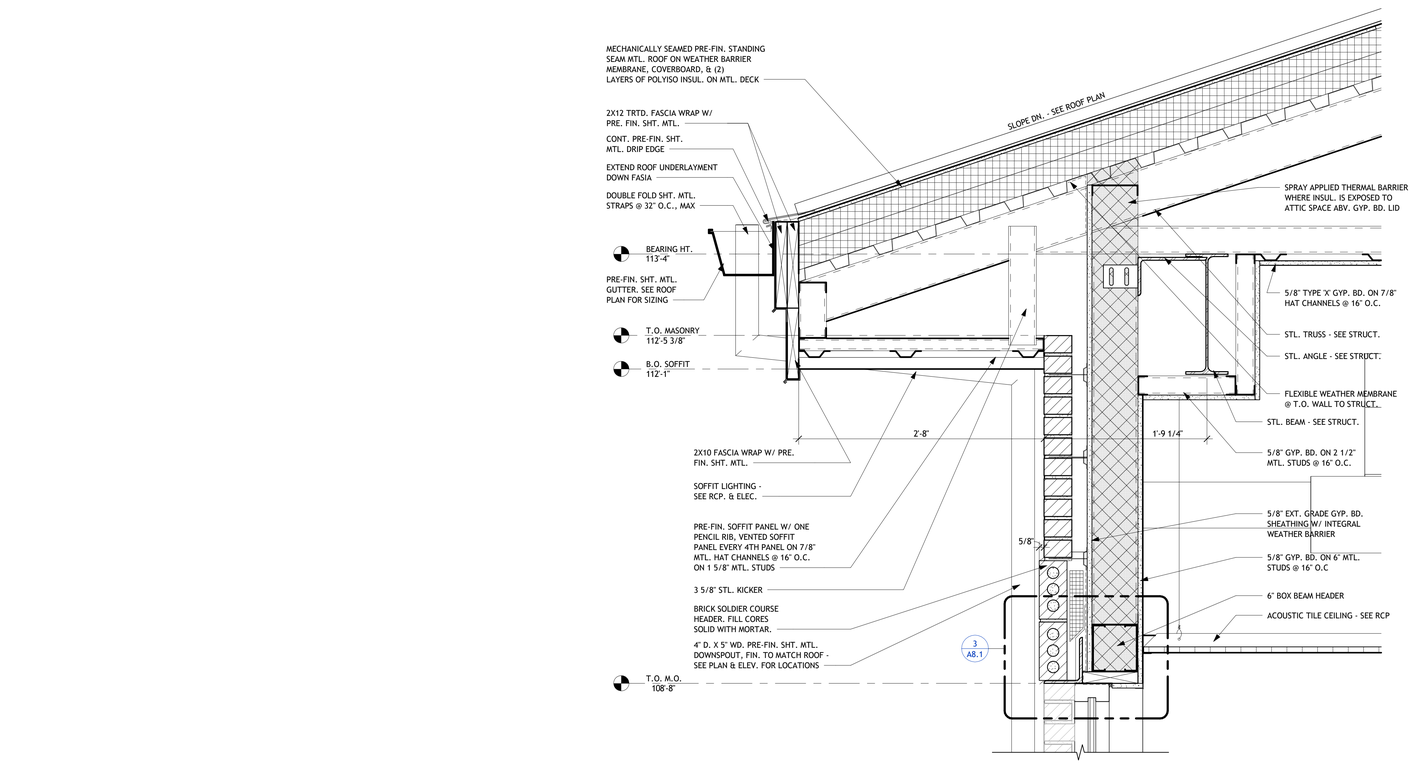
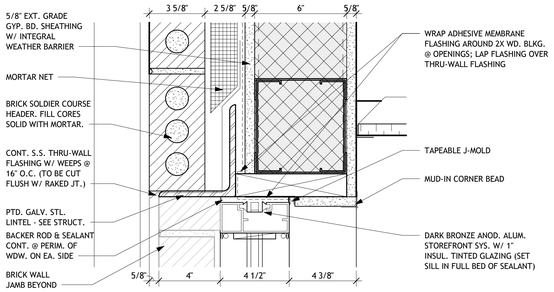
ELEVATIONS - OFFICE HQ

A3.3

GENERAL SECTION NOTES:

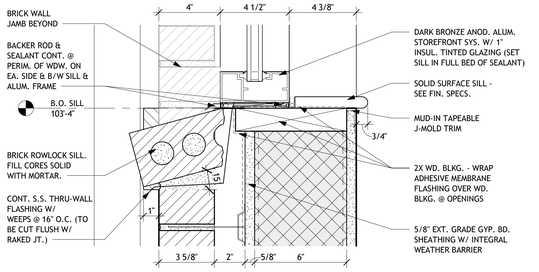
A. ALL SPRAY FOAM INSULATION TO BE A MIN. OF R-35 CLOSED CELL, UNO.





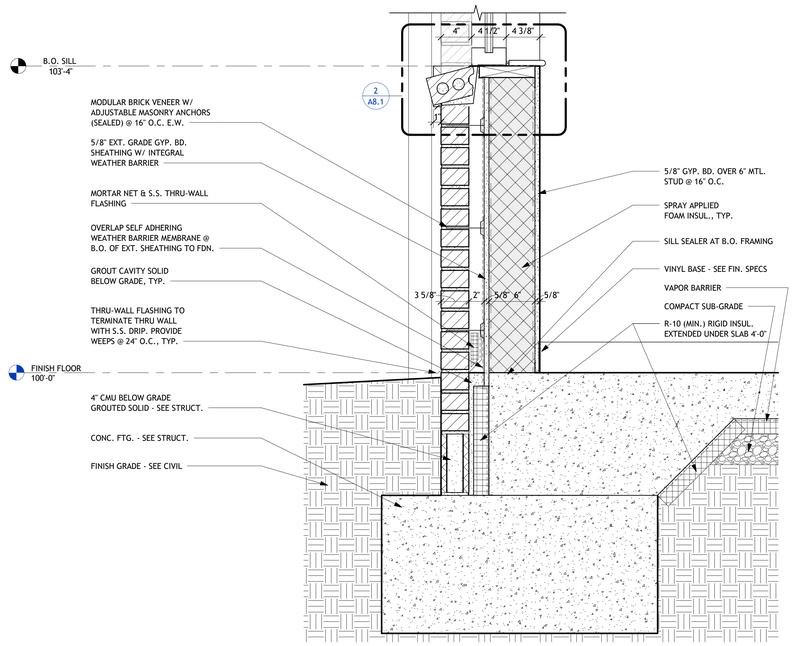
3 TYP. WDW. HEAD DTL.

3" = 1'-0"



2 TYP. WDW. SILL DTL.

3" = 1'-0"



1 TYP. OFFICE WALL SECTION

1 1/2" = 1'-0"

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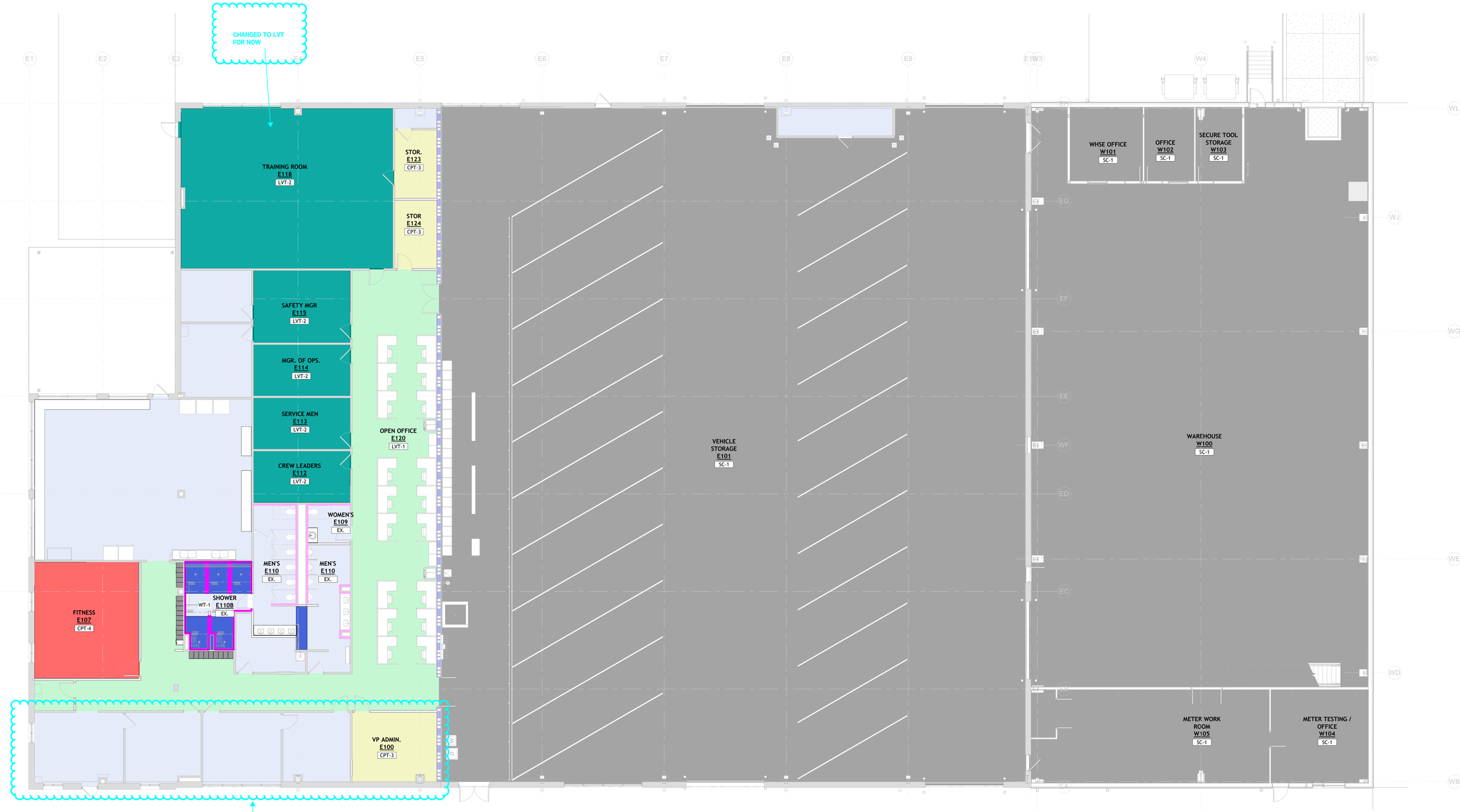
WALL SECTIONS

A8.1



1 **FINISH PLAN - OPERATIONS**
1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

THESE DRAWINGS ARE INTENDED TO BE PRINTED IN FULL COLOR AND WITH LINEWEIGHTS ENABLED FOR ACCURATE INTERPRETATION. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR ERRORS, CONFLICTS, OR MISUNDERSTANDINGS ARISING FROM DRAWINGS THAT ARE NOT REPRODUCED IN COLOR AS ISSUED.

- WT-1; WALL TILE ON PARTITIONS UP TO 7' AFF - $7.50 SF
- WT-2; BACKSPLASH TILE ON PARTITIONS - $7.50 SF
- FRP-1; FRP PANEL ON PARTITIONS. 4'X4'
- XX-XX — WALL FINISH TAG
- XX-XX — FLOOR MATERIAL TAG
- XX-XX — FLOOR FINISH TAG
- BASE MATERIAL TAG

FLOOR FINISH LEGEND

EX.	EXISTING FLOOR TO REMAIN
SC-1	LIQUID DENSIFIER / DUSTPROOFER. EXISTING FLOORING TO BE CHEMICALLY CLEANED, GROUND OR SHOT BLASTED AS REQ. FOR FLOOR TREATMENT
CPT-3	CARPET TILE RELOCATED FROM E101
CPT-4	KINETEX TEXTILE COMPOSITE FLOORING
LVT-1	GENERAL LUXURY VINYL TILE - $4.75 SF
LVT-2	ACCENT LUXURY VINYL TILE - $4.75 SF
TL-2	ACCENT FLOOR TILE PATCHED INTO EXISTING

ALLOWANCES ARE FOR MATERIAL COST ONLY AND DO NOT INCLUDE SHIPPING, INSTALL OR LABOR

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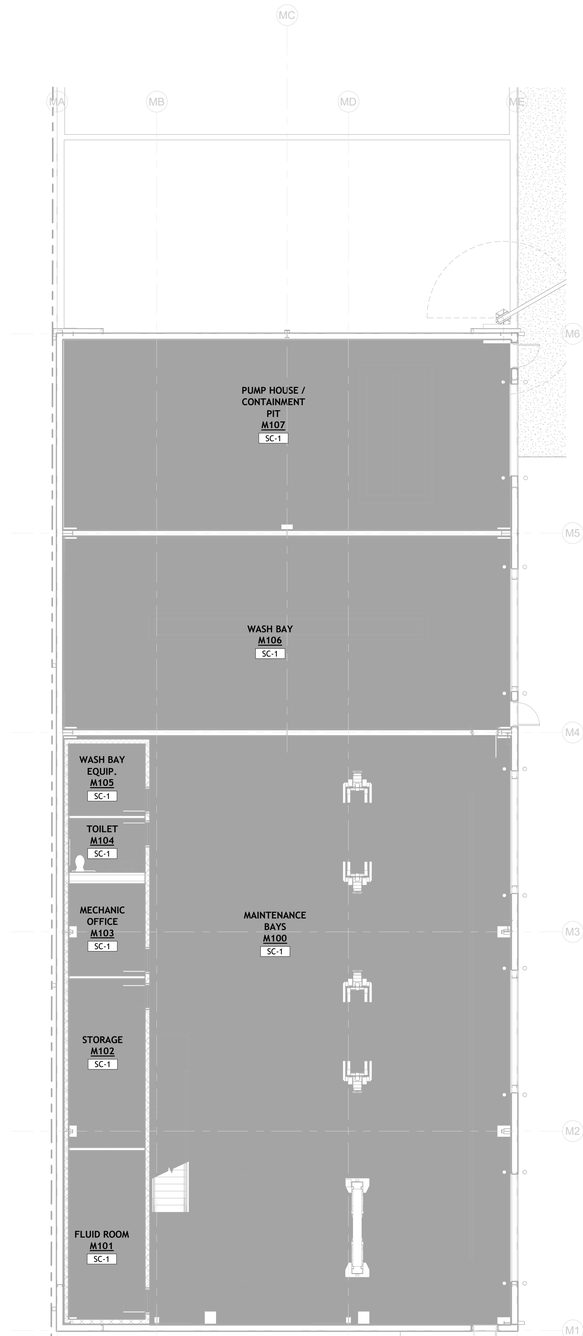
FINISH PLAN

A10.1



1 **FINISH PLAN - MAINTENANCE**

1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

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- WT-1; WALL TILE ON PARTITIONS UP TO 7' AFF - 57.50 SF
- WT-2; BACKSPLASH TILE ON PARTITIONS - 57.50 SF
- FRP-1; FRP PANEL ON PARTITIONS. 4'X4'
- XX-XX — WALL FINISH TAG
- XX-XX — FLOOR MATERIAL TAG
- XX-XX — FLOOR FINISH TAG
- XX-XX — BASE MATERIAL TAG

FLOOR FINISH LEGEND

SC-1

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FINISH PLAN

A10.2

1 **FINISH PLAN - OFFICE HQ**
1/8" = 1'-0"

FINISH FLOOR PLAN LEGEND

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- WT-1; WALL TILE ON PARTITIONS UP TO 7' AFF - $7.50 SF
- WT-2; BACKSPLASH TILE ON PARTITIONS - $7.50 SF
- FRP-1; FRP PANEL ON PARTITIONS. 4'X4'
- XX-XX — WALL FINISH TAG
- XX-XX — FLOOR MATERIAL TAG
- XX-XX — FLOOR FINISH TAG
- XX-XX — BASE MATERIAL TAG

FLOOR FINISH LEGEND

CON-1	SEALED CONCRETE
CPT-1	GENERAL CARPET TILE - $30 SY
CPT-2	ACCENT CARPET TILE - $35 SY
LVT-1	GENERAL LUXURY VINYL TILE - $4.75 SF
LVT-2	ACCENT LUXURY VINYL TILE - $4.75 SF
RAF-1	RAISED ACCESS FLOORING
TL-1	TILE - $6 SF
WOF-1	WALK OFF CARPET TILE - $56 SY

ALLOWANCES ARE FOR MATERIAL COST ONLY AND DO NOT INCLUDE SHIPPING, INSTALL OR LABOR

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FINISH PLAN

A10.3

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO LOCAL AND STATE REGULATIONS AND SPECIFICATIONS.
2. ANY PART OF THE WORK THAT IS NECESSARY OR REQUIRED TO MAKE EACH INSTALLATION SATISFACTORY AND OPERABLE FOR ITS INTENDED PURPOSE TO THE SATISFACTION OF THE OWNER AND ENGINEER, EVEN THOUGH IT IS NOT SPECIFICALLY INCLUDED IN THE DRAWINGS, SHALL BE PERFORMED AS INCIDENTAL WORK AS IF IT WERE SHOWN ON THE DRAWINGS.
3. THE CONTRACTOR SHALL NOTIFY EACH RESIDENT 48 HOURS PRIOR TO EXCAVATING ON OR NEAR THEIR PROPERTY AND ADVISE THE RESIDENT ON THE ESTIMATED TIME OF CONSTRUCTION. THE CONTRACTOR SHALL CLEAN UP AS CONSTRUCTION PROGRESSES.
4. ALL PIPE AND TRENCH BACKFILL WITHIN KYTC RIGHT-OF-WAY SHALL BE CONTROLLED (FLOWABLE) LOW STRENGTH DENSITY BACKFILL AS SPECIFIED.
5. CONTACT THE ENGINEER BEFORE MAKING ANY DEVIATIONS GREATER THAN REASONABLE CONSTRUCTION TOLERANCES FROM THE PLANS OR SPECIFICATIONS.
6. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM DEEDS AND PLATS OF RECORD AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY.
7. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE DISTURBED LIMITS SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY THE SANITATION DISTRICT.
8. THE CONTRACTOR SHALL CLEAN UP THE WORK SITE AT THE END OF EACH DAY, SWEEPING THE STREET OF ANY DEBRIS, DISPOSING OF TRASH, AND KEEPING THE SITE AS CLEAN TO THE SATISFACTION OF THE OWNER.
9. THE CONTRACTOR IS REQUIRED TO REPLACE ANY FENCING THAT IS REMOVED WITH AN EQUAL OR BETTER QUALITY FENCING TO THE OWNERS SATISFACTION.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR A 1-YEAR MAINTENANCE PERIOD BEGINNING FROM FINAL PROJECT COMPLETION.
11. CONTRACTOR SHALL ESTABLISH AN ACCEPTABLE GROWTH OF GRASS (AS DEFINED IN SPECIFICATIONS) FOR ALL AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION, AS APPLICABLE.
12. PRIOR TO THE SCHEDULED DATE FOR THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL SUBMIT TO THE OWNER FOR REVIEW A CONSTRUCTION SCHEDULE THAT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING AS REQUESTED:
    A.) ANTICIPATED START AND COMPLETION DATES
    B.) SEQUENCE AND PHASING OF CONSTRUCTION
    C.) STAGING AREAS FOR MATERIALS AND EQUIPMENT
    D.) ACCESS POINTS AND STONE CONSTRUCTION ENTRANCES
    E.) LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS
    F.) POINTS OF CONTACT AND EMERGENCY PHONE NUMBERS
    G.) PROOF OF INSURANCE AND BONDING STATUS

13. ALL NON-PERMANENT STRUCTURES (SHEDS, SWINGS, PLAY EQUIPMENT, ETC.) THAT ENCROACH ON CONSTRUCTION SHALL BE TEMPORARILY REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. IF ANY OF THESE ITEMS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO RESTORE THE ITEMS IN AS GOOD OR BETTER CONDITION AS THEY WERE IN AT THE START OF THE PROJECT.
14. UTILITY NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES, AS INDICATED ON THE DRAWINGS, ARE FOR INFORMATIONAL PURPOSES ONLY. NO RESPONSIBILITY IS ASSUMED FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION. ALL UTILITIES MUST BE MARKED AND THEIR HORIZONTAL AND VERTICAL LOCATION FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL NOT CUT OR DISCONNECT ANY EXISTING UTILITIES WITHOUT PRIOR APPROVAL FROM THE APPROPRIATE AGENCY.
2. EXISTING UNDERGROUND UTILITIES AND SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO KNOWN INFORMATION AVAILABLE. THE LOCATIONS SHOWN ARE INTENDED ONLY AS A GUIDE AND CANNOT BE GUARANTEED TO BE ACCURATE OR COMPLETE. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING UTILITIES, WHETHER SHOWN ON THE CONTRACT DRAWING OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR RESTORATION OF SAME TO THE SATISFACTION OF THE OWNER OR UTILITY OWNER AT THE CONTRACTOR'S SOLE EXPENSE. ELECTRIC SERVICE, GAS SERVICE, WATER SERVICE, TELEPHONE AND CABLE SERVICE, AND OTHER UTILITY LINES MAY BE LOCATED IN THE PROXIMITY OF THE WORK AREA.

   THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
   A.) CONTACTING THE INDIVIDUAL UTILITY OWNERS TEN (10) DAYS PRIOR TO CONSTRUCTION AND ADVISING THEM OF THE WORK TO TAKE PLACE.
   B.) SOLICITING THEIR AID IN LOCATING AND PROTECTING OR RELOCATING ANY UTILITY THAT MAY INTERFERE WITH CONSTRUCTION.
   C.) ALL DAMAGE TO ANY EXISTING UTILITY, AND REPAIR THEREOF.
   D.) CONTACTING THE KENTUCKY UNDERGROUND PROTECTION INC. (KUPI 1-800-752-6007 OR 811) 48 HOURS MINIMUM PRIOR TO CONSTRUCTION.
   E.) CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO RESTORE ALL EXISTING UTILITIES WHETHER SHOWN OR NOT, ENCOUNTERED OR DISTURBED DURING CONSTRUCTION TO BEFORE CONSTRUCTION CONDITIONS OR BETTER, AS ACCEPTABLE TO THE UTILITY OWNER.
3. WHERE POTENTIAL ELEVATION CONFLICTS MAY OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT EXACT ELEVATIONS MAY BE DETERMINED AND THE NECESSARY ADJUSTMENT MADE.
4. THE OWNERS OF UTILITIES IN THE PROJECT AREA SHALL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION TO FIELD-LOCATE SAID UTILITIES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUPPORT OR TEMPORARY RELOCATION OF ALL EXISTING OVERHEAD UTILITIES AFFECTED BY THE PROPOSED CONSTRUCTION.
   A.) WHERE HIGH-PRESSURE, OIL-FILLED PIPE-TYPE CABLE INSTALLATION ARE EXPOSED OR OTHERWISE INTERFERED WITH BY THE CONTRACTOR, PROTECTION BY THE CONTRACTOR WILL BE REQUIRED AGAINST DAMAGE TO THE COATING OR SUPPORTING THERMAL SAND ENVELOPE.
   B.) WHERE CONCRETE ENCASED CONDUIT SYSTEMS OR DIRECT BURIED CABLE SYSTEMS ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY TO PROTECT THE SYSTEM AS NECESSARY AGAINST DAMAGE. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
   C.) WHERE POLE OR ANCHORS THAT SUPPORT OVERHEAD ELECTRIC FACILITIES ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY TO PROTECT THEM FROM DAMAGE AND PROVIDE TEMPORARY SUPPORT TO ENSURE THE INTEGRITY OF THE SYSTEM. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
   D). WHERE THE DEPTH OF EXCAVATION FOR THE PROPOSED WORK IS GREATER THAN 5 FEET, THE CONTRACTOR SHALL SHEET AND SHORE THE TRENCH AND COORDINATE WITH THE UTILITY TO CONTINUOUSLY MAINTAIN THE SUPPORT OF ELECTRIC FACILITIES AT LOCATIONS WHERE THE ELECTRIC FACILITIES ARE WITHIN THE ZONE OF INFLUENCE ADJACENT TO THE EXCAVATION AS DETERMINED BY THE NATURAL ANGLE OF REPOSE OF THE SOIL.
   E.) ALL DAMAGE TO ELECTRIC FACILITIES AND SERVICES REQUIRING ADJUSTMENTS, RELOCATIONS AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S COST. CONTRACTOR SHALL NOT BACKFILL EXPOSED ELECTRIC FACILITIES UNTIL THE COMPANY HAS INSPECTED ITS FACILITY OR PERFORMED ANY ADJUSTMENTS AND/OR MAINTENANCE THAT MAY BE REQUIRED.

6. WASTEWATER FACILITIES SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE OF PIPE.
7. BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL COORDINATE WITH ANY PUBLIC OR PRIVATE COMPANIES, AGENCIES OR DEPARTMENTS THAT OWN AND OPERATE UTILITIES IN THE VICINITY OF THE CONSTRUCTION.

PAVING NOTES:

1. ALL BITUMINOUS PAVEMENT CUTS SHALL BE SAW CUT AND NEATLY PATCHED TO MATCH EXISTING PAVEMENT SECTION.
2. ALL CONCRETE PAVEMENT CUTS SHALL BE SAW CUT AND REPLACED FROM EXPANSION JOINT TO EXPANSION JOINT.
3. CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT AFTER CONSTRUCTION, SHALL MINIMIZE INCONVENIENCE TO TRAFFIC DURING CONSTRUCTION, AND SHALL PROVIDE SMOOTH TRANSITIONS TO EXISTING PAVEMENT. PAVING MATERIALS AND CONSTRUCTION THEREOF SHALL BE IN ACCORDANCE WITH THE KYTC STANDARD SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
4. CONSTRUCTION ACCESS ROADS, EXISTING PAVEMENT OR GRAVEL ROADS, AND DRIVEWAYS AND PARKING LOTS IF REMOVED, DISTURBED, OR DAMAGED BY CONTRACTOR'S WORK SHALL BE MAINTAINED BY CONTRACTOR AND RESTORED OR REPLACED TO EXISTING OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AFTER WORK IS COMPLETE.

SAFETY ADVISORY NOTES;

1. PROTECTION OF PERSONS AND PROPERTY: BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AS REQUIRED TO MAINTAIN VEHICULAR AND PEDESTRIAN SAFETY. PROVIDE ALL NECESSARY BARRIERS, WARNING LIGHTS, SIGNAGE, FLAGMEN, AND OTHER MEASURES AS REQUIRED TO MAINTAIN PUBLIC SAFETY AS DESIGNATED ON THE PLANS, DIRECTED BY THE OWNER, AND AS RECOMMENDED BY OTHER AUTHORITIES HAVING JURISDICTION.

EROSION, SEDIMENT, & ENVIRONMENTAL IMPACT NOTES:

1. SEE EROSION CONTROL PLAN

TRAFFIC CONTROL NOTES;

1. CONTRACTOR SHALL COMPLY WITH THE APPLICABLE ENCROACHMENT PERMIT.
2. ACCESS STREETS SHALL BE MAINTAINED CLEAN AND FREE OF MUD AND ROCKS.

UTILITIES AND JOB SITE SAFETY:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY DURING CONSTRUCTION. JOB SITE SAFETY IS OUTSIDE THE SCOPE OF WORK OF PITMAN GREEN, LLC. THE UTILITIES SHOWN REPRESENT OBSERVABLE FEATURES ALONG WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES, AND IS THEREFORE NOT WARRANTED. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY LOCATIONS, SIZES, TYPE ETC. NEEDED TO COMPLETE THE WORK OF THE CONTRACT. NEITHER THE PROFESSIONAL ACTIVITIES OR THE PRESENCE OF PITMAN GREEN EMPLOYEES OR SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF THEIR OBLIGATION, DUTIES, AND RESPONSIBILITIES INCLUDED, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES TO PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY GOOD CONSTRUCTION PRACTICES OR ANY REGULATORY AGENCIES. ANYONE USING INFORMATION FROM THESE PLANS ACKNOWLEDGES AND WARRANTS THAT PITMAN GREEN, LLC IS NOT RESPONSIBLE FOR SITE SAFETY IN ANY WAY.

THE UTILITIES ARE SHOWN ON THE DRAWINGS AS ACCURATELY AS THEY HAVE BEEN PROVIDED TO THE ENGINEER. THEIR LOCATIONS ARE NOT GUARANTEED. IT IS THE CONTRACTORS RESPONSIBILITY TO HAVE ALL UTILITIES FIELD LOCATED. THE CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES PRIOR TO STARTING CONSTRUCTION.

THE CONTRACTOR IS TO HAVE ALL UTILITIES FIELD LOCATED PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR IS TO NOTIFY THE THE ENGINEER IF A PROBLEM COULD EXIST. IF THE CONTRACTOR PROCEEDS WITHOUT CONTACTING THE UTILITY COMPANIES AND DOES NOT NOTIFY THE ENGINEER OF POTENTIAL PROBLEMS, HE DOES SO AT HIS OWN RISK.

CONSTRUCTION NOTES:

1. ALL CONSTRUCTION INCLUDING EXCAVATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE LATEST OSHA GUIDELINES AND STANDARDS.
2. ENGINEERED FILL IN BUILDING PADS SHALL EXTEND 5' OUTSIDE THE BUILDING AND BE COMPACTED TO A MINIMUM OF 98% OF THE STANDARD PROCTOR.
3. ENGINEERED FILL IN PAVING AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR.
4. ALL AREAS ADJACENT TO PAVING AND BUILDING PADS SHALL BE MAINTAINED TO DRAIN WATER AWAY AT A MINIMUM OF 1%. ALL BUILDING PADS AND PAVING AREAS SHALL BE DRAINED AND DE-WATERED AS NECESSARY TO PREVENT WATER FROM PONDING.
5. ALL STORM SEWER PIPE SHALL BE ADS N-12 DUAL WALL HIGH DENSITY POLYETHYLENE (HDPE) PLASTIC PIPE UNLESS NOTED OTHERWISE.
6. ALL UTILITIES CROSSING PAVEMENTS SHALL BE BACKFILLED AND COMPACTED SUBGRADE WITH DGA.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBEY ALL TEMPORARY TRAFFIC CONTROL GUIDELINES PER THE LATEST MUTCD AND/OR KYTC STANDARD DRAWINGS.
8. IF THE DISTURBED SITE AREA IS OVER 1 ACRE, IT IS THE CONTRACTORS RESPONSIBILITY TO PROCURE THE KEPSC "NOI" PERMIT, PERFORM THE REQUIRED INSPECTIONS, AND FILE THE REQUIRED "NOT" ONCE COVERAGE HAS BEEN ACHIEVED.
9. THE EROSION CONTROL BMP'S NOTED ON THIS PLAN ARE MINIMUMS THAT MUST BE INSTALLED PRIOR TO LAND DISTURBANCE. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN AND ADAPT TO CHANGING SITE CONDITIONS. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO ADD ADDITIONAL BMP'S IF THEY ARE NEEDED.
10. ANY DISTURBANCE TO CITY/STATE RIGHT OF WAY OR ADJOINER PROPERTIES SHALL BE RETURNED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
11. ALL SLOPES GREATER THAN 3:1 SHALL BE BLANKETED WITH EROSION CONTROL BLANKETS.

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KENTUCKY 811 — Know what's below. 811 before you dig.

UTILITY PROVIDERS

ELECTRIC
LG&E KU
109 W MAIN STREET
CAMPBELLSVILLE, KENTUCKY 42719
800-981-0600

GAS
ATMOS ENERGY
PO BOX 650205
DALLAS, TEXAS 75265-0205
888-286-6700

WATER AND SEWER
CAMPBELLSVILLE WATER & SEWER
110 SOUTH COLUMBIA AVE.
CAMPBELLSVILLE, KENTUCKY 42718
270-789-3133

CABLE TV/INTERNET
COMCAST COMMUNICATIONS
850 MEADOR STREET
CAMPBELLSVILLE, KENTUCKY 42718
888-266-2278

TELEPHONE/INTERNET
WINDSTREAM
1715 E BROADWAY
CAMPBELLSVILLE, KENTUCKY 42718
270-465-3141

50% SET - NOT FOR CONSTRUCTION

Drawn by:	KMF	DATE	REVISION
Checked by:	BANF		
Approved:	BANF		
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TAYLOR COUNTY RECC
PO BOX 100
CAMPBELLSVILLE, KY 42719

COOPERATIVE HEADQUARTERS
SITE DEVELOPMENT PLAN

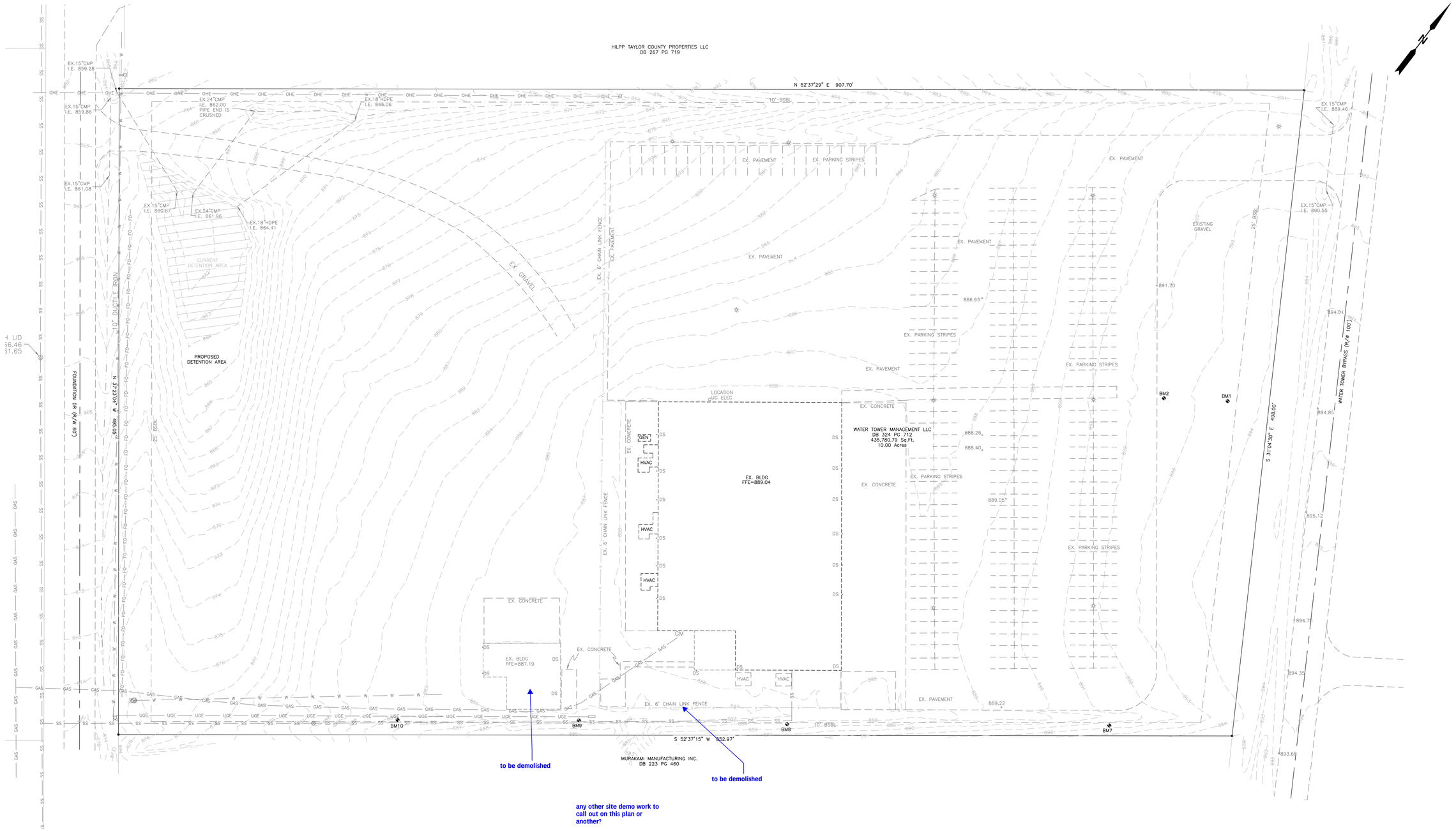
PITMAN GREEN LLC
ENGINEERING | CONSULTING | SURVEYING | INVESTIGATIONS
131 North Public Square
Greensburg, KY 42743
P: 270.973.5213
www.pitmangreen.com

DATE: MARCH 06, 2026

GENERAL NOTES

JOB#: 25-072

SHEET: C-0.1



BENCHMARK DATA:

STATE PLANE KY SINGLE ZONE – NAVD88

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BM10	3647527.38	5045063.46	885.42	IRON PIN
B244	3646728.86	5036278.26	885.70	NGS MON B224

LEGEND

EXISTING	PROPOSED
ASPHALT PAVEMENT	
ROAD CENTERLINE	
CONCRETE	
OVERHEAD POWER	OHE
UNDERGROUND POWER	UGE
BURIED FIBER OPTIC	FO
STORM SEWER LINE	
WATER LINE	W
GAS LINE	GAS
SANITARY SEWER LINE	SS
DITCH/SWALE	
BUILDING	
SILT FENCE	SF
PROPERTY LINE	
ADJOINER PROPERTY	
LIGHT POLE	LP

- PROPOSED CONCRETE PAVING/DUMPSTER PAD/SIDEWALK
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- PROPOSED LIGHT DUTY ASPHALT PAVING
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SCALE PLAN: 1"= 30'
0 30 60 90

Drawn by: KMF
Checked by: BANF
Approved: BANF
Filename:

DATE	REVISION

TAYLOR COUNTY RECC
PO BOX 100
CAMPBELLSVILLE, KY 42719

COOPERATIVE HEADQQUARTERS
SITE DEVELOPMENT PLAN

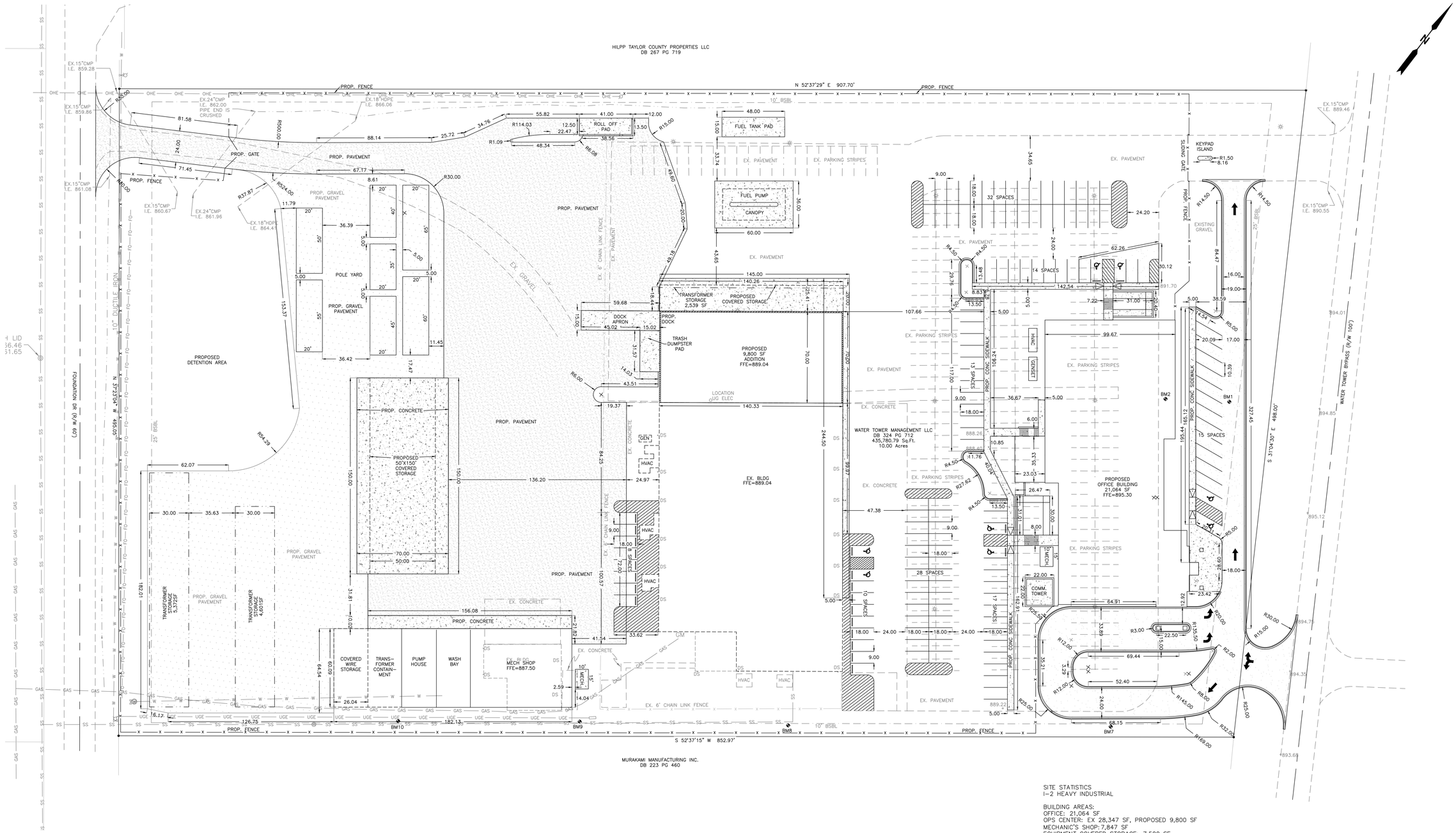
PITMAN GREEN LLC
ENGINEERING | CONSULTING | SURVEYING | INVESTIGATIONS
131 North Public Square
Greensburg, KY 42743
P: 270.973.5213
www.pitmangreen.com

DATE: MARCH 06, 2026

EXISTING CONDITIONS

JOB#: 25-072

SHEET: C-0.5



SITE STATISTICS
I-2 HEAVY INDUSTRIAL

BUILDING AREAS:
OFFICE: 21,064 SF
OPS CENTER: EX 28,347 SF, PROPOSED 9,800 SF
MECHANIC'S SHOP: 7,847 SF
EQUIPMENT COVERED STORAGE: 7,500 SF
TRANSFORMER COVERED STORAGE: 2,827 SF
WIRE COVERED STORAGE: 1,565 SF
COVERED TRANSFORMER CONTAINMENT: 1,553 SF
FUEL CANOPY: 1,152 SF

PARKING SUMMARY:

OFFICE:
SPACES REQUIRED 1 PER 200 SF
21,064 SF/200 SF = 106 SPACES

OPS/MECHANIC SHOP/PUMP HOUSE:
1 SPACE FOR EVERY 3 EMPLOYEES
70 EMPLOYEES/3 = 24 SPACES
TOTAL SPACES REQUIRED=130 SPACES
SPACES DESIGNED = 138 SPACES
HANDICAP SPACES REQUIRED =6 SPACES
(5 STANDARD, 1 VAN)
HANDICAP SPACES DESIGNED =6 SPACES (6 VAN)
ALL SPACES ARE VAN ACCESSIBLE SIZED 18'X9'
AND MANEUVERABLE AREAS ARE 18'X9'

BUILDING SETBACKS:
FRONT – 25'
SIDE – 10'
REAR – 20'

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CONCRETE	
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UNDERGROUND POWER	UGE
BURIED FIBER OPTIC	FO
STORM SEWER LINE	
WATER LINE	W
GAS LINE	GAS
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50% SET - NOT FOR CONSTRUCTION

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P: 270.973.5213
www.pitmangreen.com

DATE: MARCH 06, 2026

SITE LAYOUT

JOB#: 25-072

SHEET: C-1.0

keypad island

sliding gates

DRY SWALE UNDERDRAIN TO DAYLIGHT AT EXISTING 24" PIPE

HILPP TAYLOR COUNTY PROPERTIES LLC
DB 267 PG 719

7' h chain link fencing with 3 strands of barb wire (8' h total)

ameristar montage commercial 7' h fencing - genesis style

leaders for d.s.

leader for d.s.

conc. housekeeping pads

PROPOSED DETENTION AREA

downspouts with splash blocks?

EXTEND CONCRETE

we have a flag pole near here. what is the depth of the line? want to ensure we don't have any coord. issues

pave all as concrete with 5% slope

adjust grade to move out of covered wire storage

INSTALL DOWN SPOUT SPLASH BLOCKS

INSTALL DOWN SPOUT SPLASH BLOCKS

WATER TOWER MANAGEMENT LLC
DB 324 PG 712
435,780.79 Sq.Ft.
10.00 Acres

MURAKAMI MANUFACTURING INC.
DB 223 PG 460

WATER TOWER BYPASS (R/W 100')

FOUNDATION DR (R/W 60')

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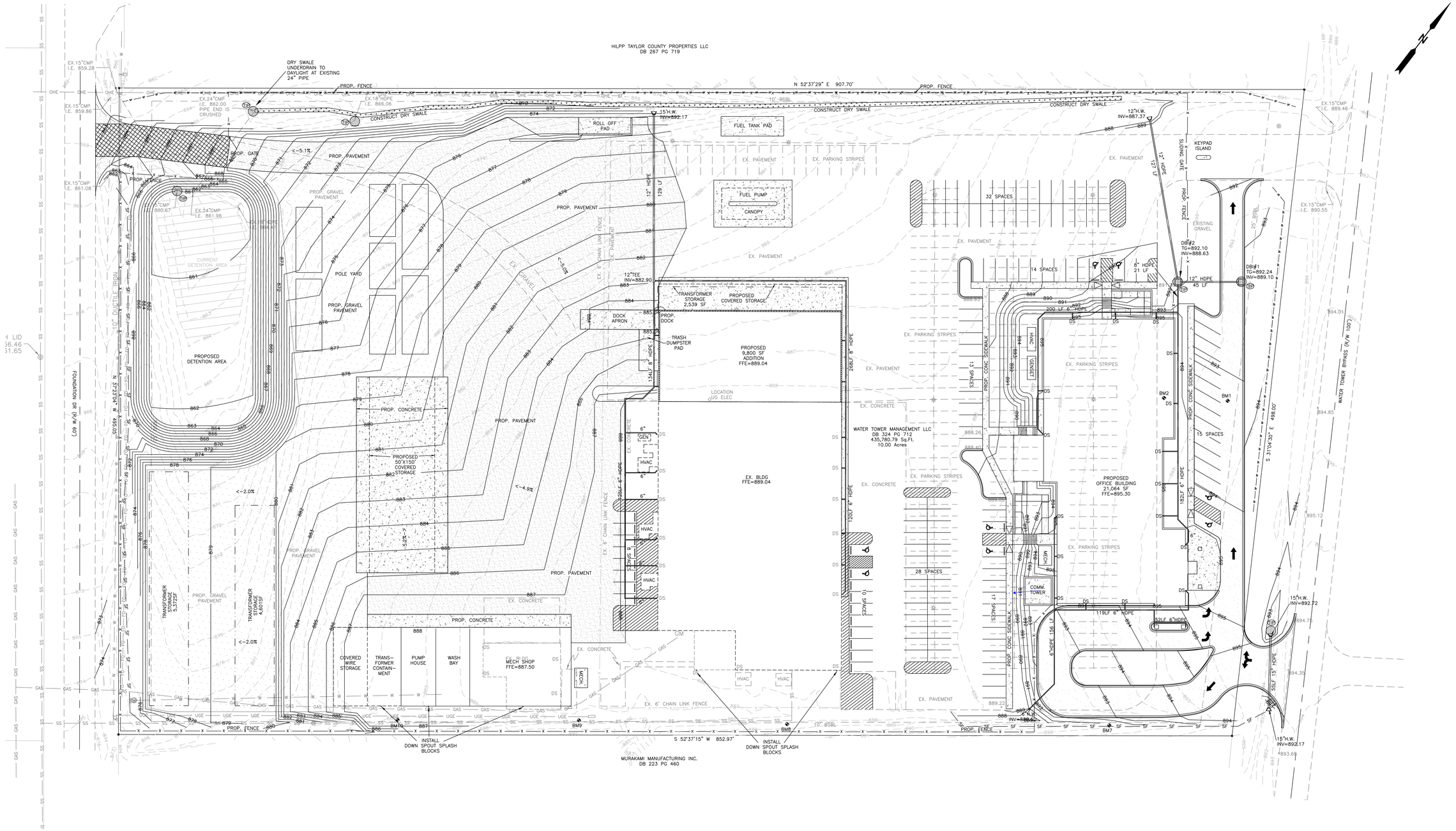
DATE: MARCH 06, 2026

SITE GRADING PLAN

JOB#: 25-072

SHEET: C-2.0



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50% SET - NOT FOR CONSTRUCTION

NOTE:
EXISTING UTILITIES SHOWN ARE BASED ON ABOVE GROUND EVIDENCE AND INFORMATION AVAILABLE. CONTRACTOR SHALL CONTACT ALL LOCAL UTILITY PROVIDERS TO VERIFY THE EXISTENCE AND LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL USE CAUTION NOT TO DISTURB EXISTING UTILITIES AND ASSUMES ALL RESPONSIBILITY FOR DAMAGE TO EXISTING

FLOODPLAIN INFORMATION
THE PARCEL DEPICTED HEREON DOES NOT LIE WITHIN A FLOOD ZONE AREA AS PER THE "FIRM" MAP NUMBER 21217C0155C SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED "FIRM".

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NOTE:
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KENTUCKY 811 Know what's below. 811 before you dig.

SCALE PLAN: 1"= 30'
0 30 60 90

Drawn by: KMF	DATE	REVISION
Checked by: BANF		
Approved: BANF		
Filename:		

TAYLOR COUNTY RECC
PO BOX 100
CAMPBELLSVILLE, KY 42719

COOPERATIVE HEADQQUARTERS
SITE DEVELOPMENT PLAN

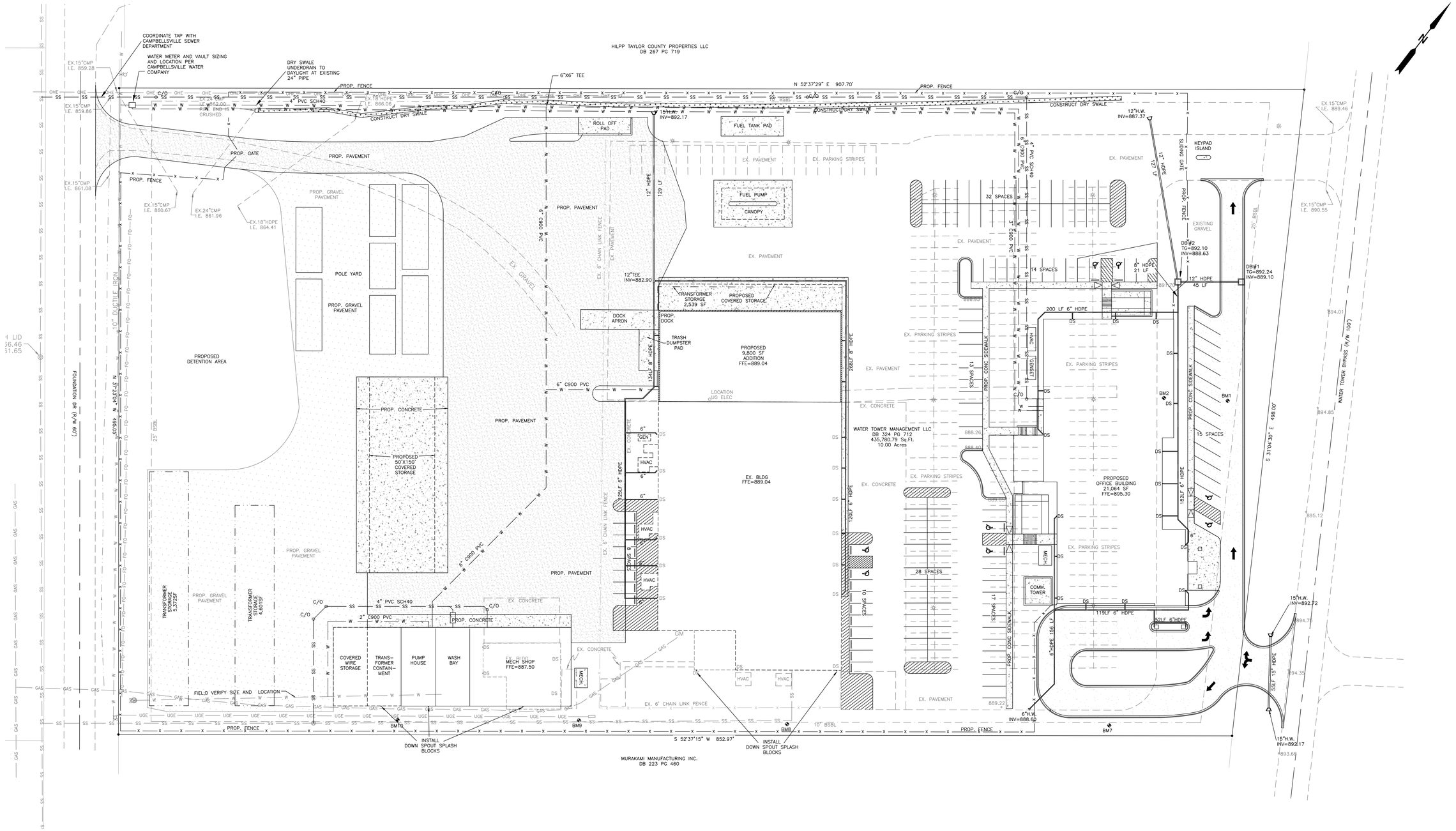
PITMAN GREEN LLC
ENGINEERING | CONSULTING | SURVEYING | INVESTIGATIONS
131 North Public Square
Greensburg, KY 42743
P: 270.973.5213
www.pitmangreen.com

DATE: MARCH 06, 2026

EROSION CONTROL PLAN

JOB#: 25-072

SHEET: C-3.0



BENCHMARK DATA:

STATE PLANE KY SINGLE ZONE – NAVD88

Point	Northing	Easting	Elevation	Description
BM1	3648107.90	5045419.62	893.66	MAG NAIL/HUB
BM2	3648079.90	5045379.53	892.38	MAG NAIL/HUB
BM7	3647855.43	5045498.76	891.60	IRON PIN
BM8	3647706.19	5045302.28	888.12	IRON PIN
BM9	3647611.51	5045173.97	886.35	IRON PIN
BM10	3647527.38	5045063.46	885.42	IRON PIN
B244	3646728.86	5036278.26	885.70	NGS MON B224

LEGEND

EXISTING	PROPOSED
ASPHALT PAVEMENT	
ROAD CENTERLINE	
CONCRETE	
OVERHEAD POWER	OHE
UNDERGROUND POWER	UGE
BURIED FIBER OPTIC	FO
STORM SEWER LINE	
WATER LINE	W
GAS LINE	GAS
SANITARY SEWER LINE	SS
DITCH/SWALE	
BUILDING	
SILT FENCE	SF
PROPERTY LINE	
ADJOINER PROPERTY	
LIGHT POLE	LP

- PROPOSED CONCRETE PAVING/DUMPSTER PAD/SIDEWALK
- PROPOSED HEAVY DUTY ASPHALT PAVING
- PROPOSED LIGHT DUTY ASPHALT PAVING
- TEMPORARY CONSTRUCTION ENTRANCE
- BENCH MARK (BM)
- EX. POWER POLE
- EX. FIRE HYDRANT
- EX. WATER VALVE
- EX. WATER METER
- IRON PIN W/ CAP MARKED TUNGATE PLS 3997
- IRON PIN W/ CAP MARKED MILLER PLS 2282
- DS DOWN SPOUT
- PROP. CONCRETE WHEEL STOP
- HANDICAP RAMP
- INLET PROTECTION

50% SET - NOT FOR CONSTRUCTION

NOTE:
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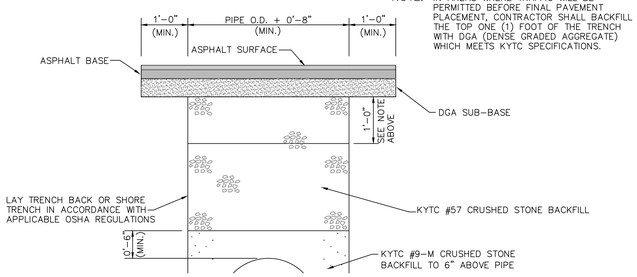
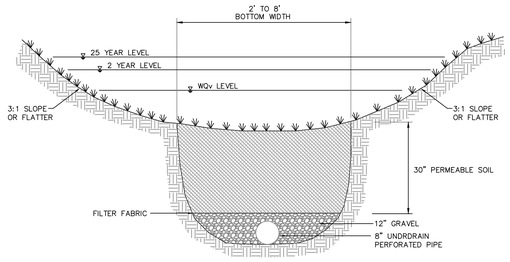
SITE UTILITY PLAN

JOB#: 25-072

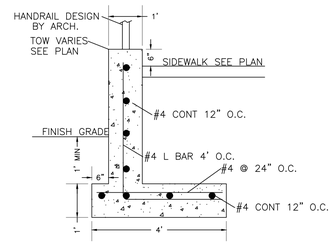
SHEET: C-4.0



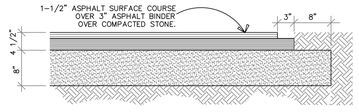
PIPE BEDDING AND BACKFILL
N.T.S.



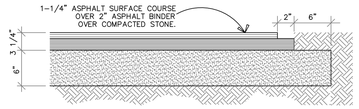
DRY SWALE CROSS SECTIONAL VIEW
N.T.S.



SMALL RETAINING WALL
N.T.S.

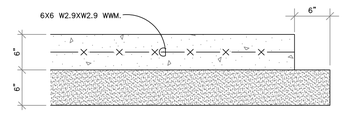


HEAVY DUTY PAVING
N.T.S

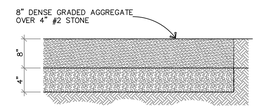


LIGHT DUTY PAVING
N.T.S

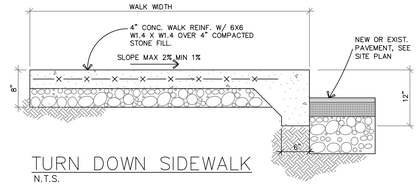
PAVING NOTE:
12" COMPACTED SUBGRADE (98% STANDARD PROCTOR)
6" DENSE GRADE AGGREGATE BASE AT 690 LBS./SQ. YD. (PUG-MILL MIXED) IN TWO-3" COURSES (COMPACTED TO 84% DENSITY WITH WEIGHBILLS TO SHOW AMOUNT OF MATERIALS USED).
PRIME COAT L @ GAL. PER SQ. YD., CURED FOR 48 HOURS).
2" CLASS 1 BITUMINOUS BASE (220 LBS./SQ. YD. MIN. – PLACED IN 1 COURSE).
1-1/2" CLASS 1 BITUMINOUS SURFACE (165 LBS./SQ. YD. MIN.)
IF 5 DAYS OR MORE ELAPSES BETWEEN PLACEMENT OF EACH PAVEMENT COURSE, APPLY TACK COATS BEFORE PLACING EACH ADDITIONAL COURSE.



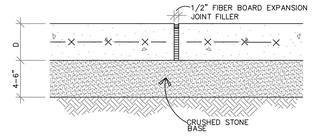
CONCRETE PAVING
N.T.S.



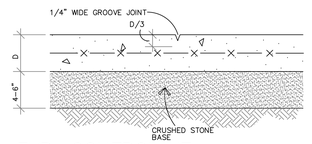
GRAVEL PAVING
N.T.S.



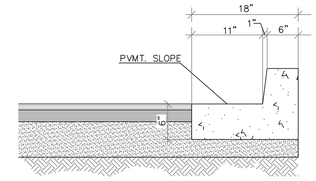
TURN DOWN SIDEWALK
N.T.S.



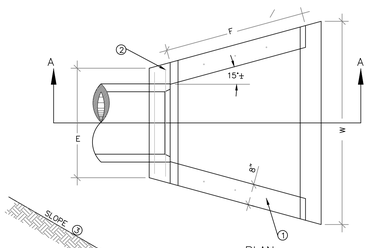
TYP. EXPANSION JT.
N.T.S.



TYP. CONTROL JT.
N.T.S.



18" STANDARD CURB & GUTTER
N.T.S.



PLAN

SECTION A–A

PIPE DIA. OR EQUIV. DIA.	SHAPE ④	DIMENSIONS C	E	F	L	W	CLASS "A" CONC. C.Y.	REINF. STEEL T	LBS.
12"	○	1'-9"	2'-6"	2'-3"	3'-6"	4'-0"	2"	0.58	7
	⬭	2'-0"	2'-9"	2'-9"	4'-0"	4'-9"		0.75	
15"	○	1'-9"	3'-0"	2'-6"	3'-6"	4'-9"	2 1/4"	0.68	8
	⬭	2'-3"	3'-0"	3'-6"	4'-6"	5'-3"	2 1/2"	0.93	
18"	○	2'-0"	3'-6"	3'-0"	4'-0"	5'-6"		0.89	
	⬭								
21"	○	2'-6"	3'-3"	4'-0"	5'-0"	6'-0"	2 3/4"	1.14	
	⬭	2'-3"	3'-0"	3'-6"	4'-6"	6'-0"		1.07	9
24"	○	2'-9"	3'-6"	4'-6"	5'-6"	6'-6"	3"	1.35	8
	⬭	2'-6"	4'-0"	4'-0"	5'-0"	6'-9"	3 1/4"	1.30	9
27"	○	3'-0"	3'-9"	5'-0"	6'-0"	7'-0"		1.57	
	⬭	2'-9	4'-6"	4'-3"	5'-3"	7'-3"	3 1/2"	1.51	10

NOTE: DIMENSIONS AND QUANTITIES BASED ON CONCRETE PIPE AND WILL VARY INSIGNIFICANTLY FOR CORRUGATED METAL PIPE.

NOTES:

REINFORCING STEEL: MINIMUM GRADE 40, EVENLY SPACED
① 6–#4 X 1'-0" DOWEL BARS
② 2–#4 X (E DIMENSION MINUS 4")

③ SLOPES SHALL BE WARPED TO FIT HEADWAL WHEN PIPE IS SKEWED AND/OR NORMAL SLOPE VARIES FROM 2:1.

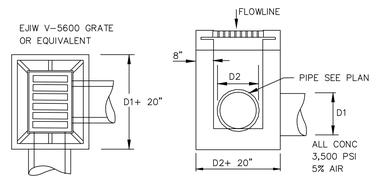
VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.

WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMODATE FLOW OF WATER.

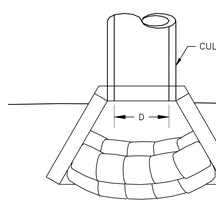
APRON BETWEEN WINGS SHALL BE SLOPED IN THE DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.

④ HEADWALLS ARE FOR CIRCULAR, ARCH, AND HORIZONTAL ELLIPTICAL 12"–27" EQUIVALENT PIPE SIZES.

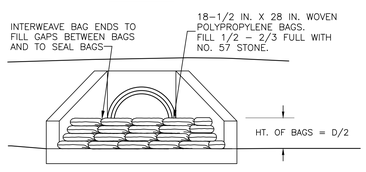
CONCRETE HEADWALL
N.T.S.



DROP BOX INLET DETAIL
N.T.S.

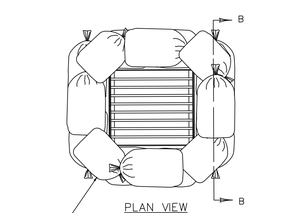


PLAN VIEW



UPSTREAM ELEVATION

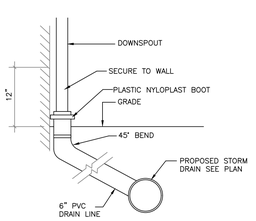
TIP STONE BAG INLET PROTECTION FOR HEADWALLS & OUTLET STRUCTURES
N.T.S.



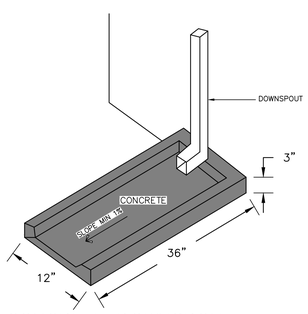
PLAN VIEW

SECTION B–B

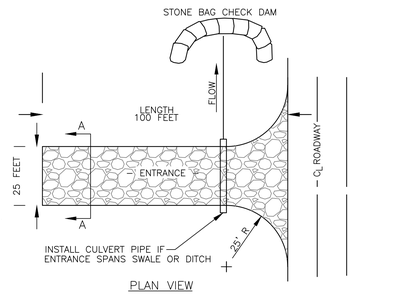
TIP INLET PROTECTION
N.T.S.



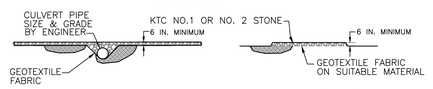
DOWNSPOUT CONNECTION AND BOOT DETAIL
N.T.S.



CONCRETE DOWNSPOUT SPLASH BLOCK
N.T.S.



PLAN VIEW



CULVERT DETAIL

SECTION "A–A"

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.

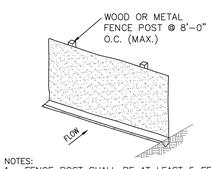
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

4. CLEANING OF ROADWAY IS REQUIRED IF MUD AND SEDIMENT ENTERS ROADWAY.

SIZING NOTES:
(1) WIDTH:
FOR THIS PROJECT: 25'
(2) LENGTH:
(a) RESIDENTUAL LOTS 25' OR LESS WITH APPROVAL OF PUBLIC WORKS
(b) COMMERCIAL 100'
(c) SUBDIVISION 100'
(3) DEPTH:
(a) USE 12" DEPTH FOR #2 STONE

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



NOTES:
1. FENCE POST SHALL BE AT LEAST 5 FEET LONG GEOTEXTILE FABRIC SHALL BE A MATERIAL RECOMMENDED FOR THIS USE BY THE MANUFACTURER.

2. THE BOTTOM 12 INCHES OF THE FABRIC SHALL BE BURIED IN A 6 INCH TRENCH CUT INTO THE GROUND TO PREVENT SEDIMENT ESCAPING UNDER THE FENCE. ALL EARTHWORK SHALL BE DONE ON THE UPSTREAM SIDE OF THE FENCE.

3. THE SILT FENCE SHALL BE ERECTED BEFORE GRADING IS BEGUN. THE GEOTEXTILE FABRIC SHALL BE ATTACHED TO THE POST, ON THE UPSTREAM SIDE, USING STAPLES, HOG RINGS OR OTHER APPROVED METHOD.

4. REMOVE SILT FENCE UPON ESTABLISHMENT OF PERMANENT GROUND COVER.

TEMPORARY SILT FENCE DETAIL
N.T.S.

50% SET - NOT FOR CONSTRUCTION

Drawn by: KMF
Checked by: BANF
Approved: BANF
Filename:

DATE	REVISION

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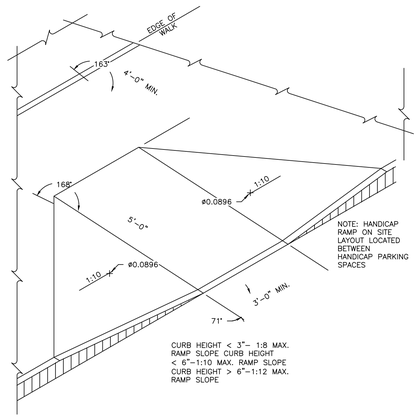
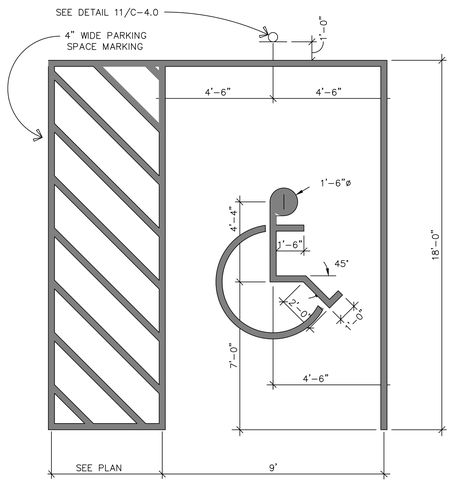
DETAILS

JOB#: 25-072

SHEET: C-5.0

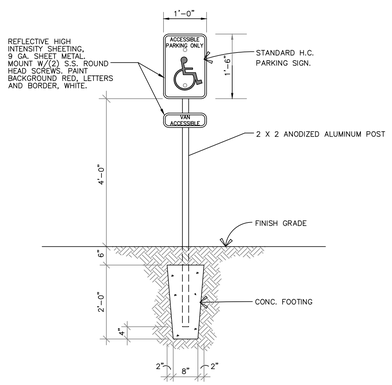


HANDICAP RAMP FOR NEW CONSTRUCTION
N.T.S

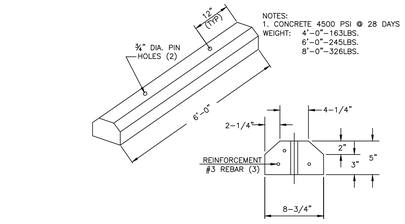


HANDICAP PARKING SPACES ARE DESIGNATED ♿ ON THE SITE PLAN.

HANDICAP PARKING DETAIL
N.T.S.



TYPICAL "HANDICAPPED PARKING ONLY" SIGN
N.T.S.



CONCRETE WHEEL STOPS
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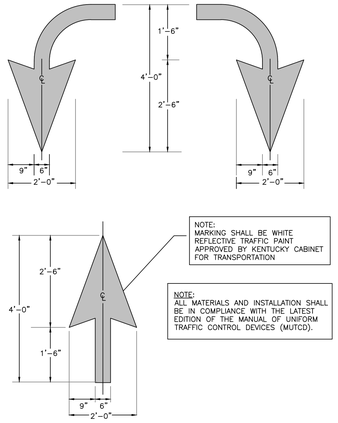
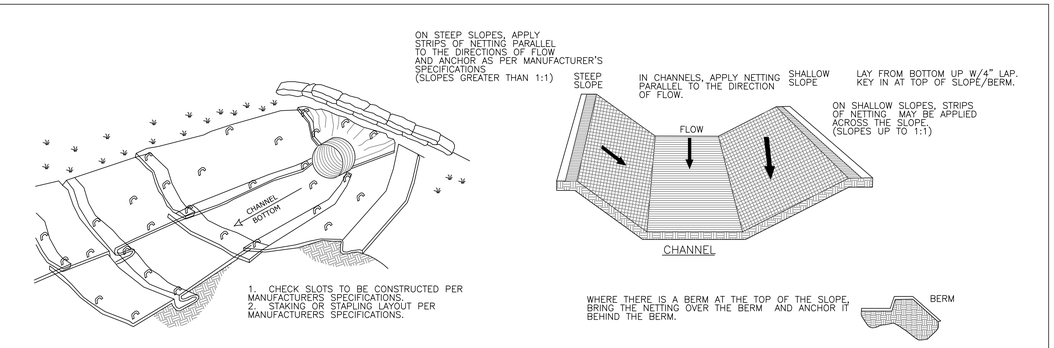
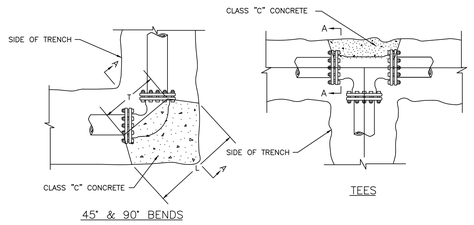
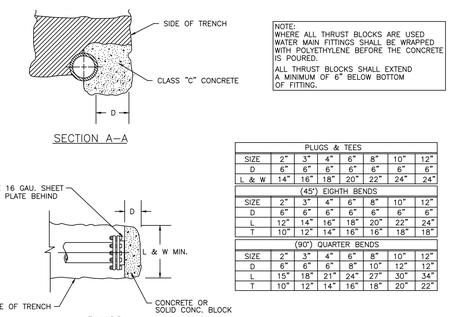


DIRECTIONAL ARROW
N.T.S.



EROSION CONTROL BLANKETS
N.T.S.





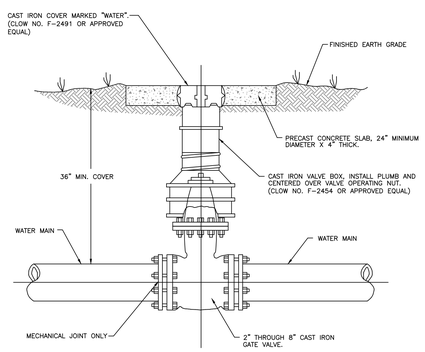
PLUGS & TEES							
SIZE	2"	3"	4"	6"	8"	10"	12"
D	6"	6"	6"	6"	6"	6"	6"
L & W	14"	16"	18"	20"	22"	24"	24"

(45°) EIGHTH BENDS							
SIZE	2"	3"	4"	6"	8"	10"	12"
D	6"	6"	6"	6"	6"	6"	6"
L	12"	14"	16"	18"	20"	22"	24"
T	10"	12"	14"	16"	16"	18"	18"

(90°) QUARTER BENDS							
SIZE	2"	3"	4"	6"	8"	10"	12"
D	6"	6"	6"	8"	10"	12"	12"
L	15"	18"	21"	24"	27"	30"	34"
T	10"	12"	14"	16"	18"	20"	22"

HORIZONTAL THRUST BLOCKS
N.T.S

NOTE:
GATE VALVES SHALL BE MUELLER OR APPROVED EQUAL AND SHALL MATCH GATE VALVES IN EXISTING SYSTEM. CONFIRM WITH LOCAL UTILITY.



TYPICAL GATE VALVE SETTING GRASSED OR EARTH AREAS
N.T.S

50% SET - NOT FOR CONSTRUCTION

Drawn by:	KMF	DATE
Checked by:	BANF	
Approved:	BANF	
Filename:		

REVISION

TAYLOR COUNTY RECC
PO BOX 100
CAMPBELLSVILLE, KY 42719

COOPERATIVE HEADQQUARTERS
SITE DEVELOPMENT PLAN

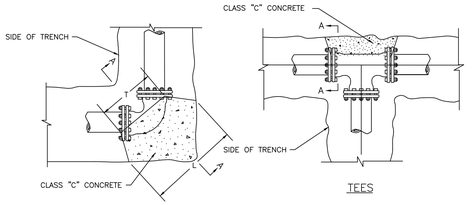
PITMAN GREEN LLC
ENGINEERING | CONSULTING | SURVEYING | INVESTIGATIONS
131 North Public Square
Greensburg, KY 42743
P: 270.973.5213
www.pitmangreen.com

DATE: MARCH 06, 2026

DETAILS

JOB#: 25-072

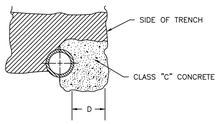
SHEET: C-5.1



45° & 90° BENDS

TEES

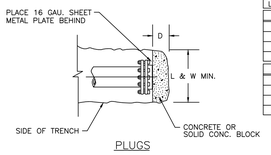
NOTE:
GATE VALVES SHALL BE MUELLER OR APPROVED EQUAL AND SHALL MATCH GATE VALVES IN EXISTING SYSTEM. CONFIRM WITH LOCAL UTILITY.



SECTION A–A

NOTE:
WHERE ALL THRUST BLOCKS ARE USED WATER MAIN FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE BEFORE THE CONCRETE IS POURED.

ALL THRUST BLOCKS SHALL EXTEND A MINIMUM OF 6" BELOW BOTTOM OF FITTING.



PLUGS

PLUGS & TEES							
SIZE	2"	3"	4"	6"	8"	10"	12"
D	6"	6"	6"	6"	6"	6"	6"
L & W	14"	16"	18"	20"	22"	24"	24"

(45°) EIGHTH BENDS							
SIZE	2"	3"	4"	6"	8"	10"	12"
D	6"	6"	6"	6"	6"	6"	6"
L	12"	14"	16"	18"	20"	22"	24"
T	10"	12"	14"	16"	16"	18"	18"

(90°) QUARTER BENDS							
SIZE	2"	3"	4"	6"	8"	10"	12"
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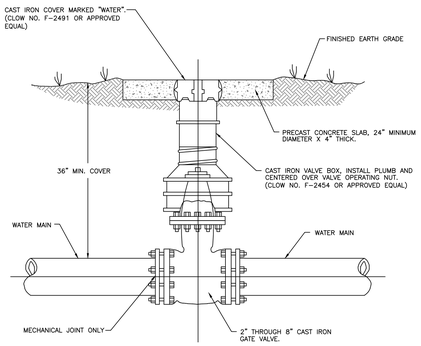
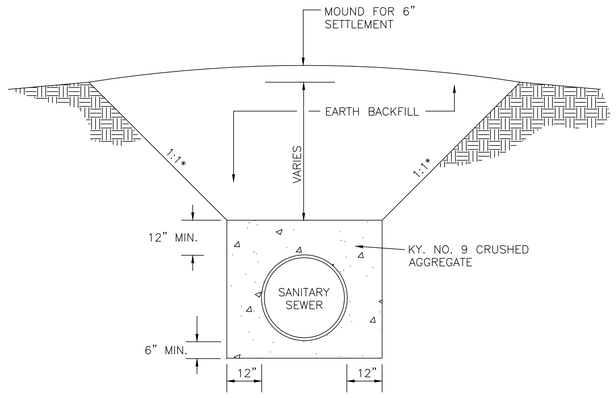
HORIZONTAL THRUST BLOCKS
N.T.S

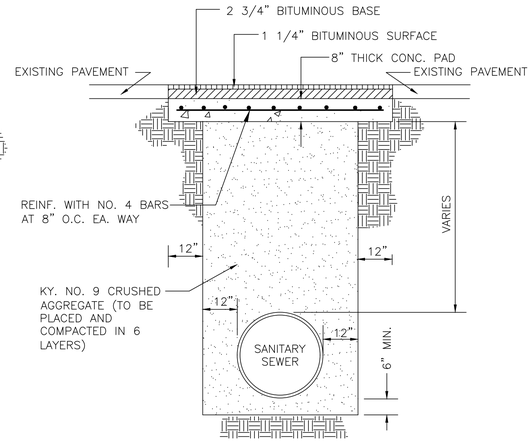


TYPICAL GATE VALVE SETTING
GRASSED OR EARTH AREAS
N.T.S



* SIDE WALLS SHALL BE SLOPED FOR TRENCH EXCAVATIONS GREATER THAN 5' IN DEPTH. SHORING MAY BE USED IN LIEU OF SLOPING SIDES AT THE CONTRACTORS OPTION.

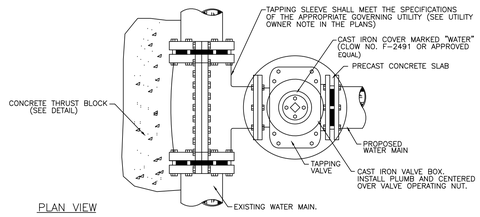
TRENCHING DETAIL/GRASS AREA
NOT TO SCALE



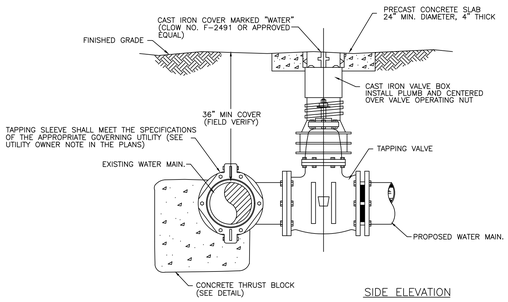
* NOTE: ON TRENCH EXCAVATIONS GREATER THAN 5' IN DEPTH FOR PAVEMENT CROSSING, CONTRACTOR SHALL IMPLEMENT SHORING MEASURES.

TRENCHING DETAIL/PAVEMENT AREAS
NOT TO SCALE

NOTE:
TAPPING SLEEVE AND VALVES SHALL BE MUELLER OR APPROVED EQUAL AND SHALL MATCH TAPPING SLEEVE AND VALVES IN EXISTING SYSTEM. CONFIRM WITH LOCAL UTILITY.



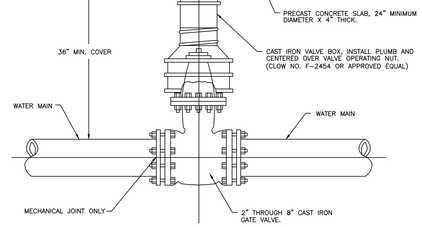
PLAN VIEW



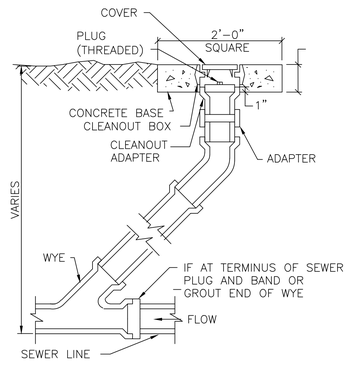
SIDE ELEVATION

TAPPING SLEEVE AND VALVE
N.T.S

NOTE:
GATE VALVES SHALL BE MUELLER OR APPROVED EQUAL AND SHALL MATCH GATE VALVES IN EXISTING SYSTEM. CONFIRM WITH LOCAL UTILITY.



TYPICAL GATE VALVE SETTING
GRASSED OR EARTH AREAS
N.T.S



CLEANOUT

fencing details?

50% SET - NOT FOR CONSTRUCTION

Drawn by:	KMF	DATE	REVISION
Checked by:	BANF		
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TAYLOR COUNTY RECC
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COOPERATIVE HEADQQUARTERS
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DATE: MARCH 06, 2026

JOB# 25-072

UTILITY DETAILS

SHEET: C-5.2

ELECTRICAL SYMBOLS LEGEND

LIGHTING FIXTURES

AA3	LUMINAIRE - CEILING MOUNTED. ALPHA-NUMERIC DESIGNATION DENOTES TYPE; SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION.
B82	LUMINAIRE - AS ABOVE - WALL MOUNTED 84" AFF (U.N.O).
(C)	LED,FLUORESCENT OR H.I.D. FIXTURE - AS ABOVE - CEILING MOUNTED OR PENDANT MOUNTED TO HEIGHT INDICATED.
D1	WALL MOUNTED FIXTURE - AS ABOVE - MOUNTING HEIGHT AS PER PLANS.
	EXIT LIGHT - CEILING MOUNTED; WALL MOUNT 7'-6" AFF OR ABOVE DOOR SHADED PORTION INDICATES FACE; WITH DIRECTIONAL ARROW(S) AS INDICATED. FIXTURE TYPE "X" (U.N.O.).
	COMBINATION EXIT LIGHT WITH EMERGENCY LIGHTING HEADS. FIXTURE TYPE "X1" (U.N.O.).
	EMERGENCY LIGHT - BATTERY OPERATED - WALL MOUNTED 84" AFF (U.N.O.). FIXTURE TYPE "Y" (U.N.O.).
	BOLLARD FIXTURE.
	LIGHT POLE WITH SINGLE HEAD LUMINAIRE.
	LIGHT POLE WITH MULTIPLE HEADS (AS INDICATED).
	SHADING DENOTES EMERGENCY FIXTURE.
1a,b NL	FIXTURE CIRCUITRY NOTATION: 1 - CIRCUIT NUMBER TO WHICH FIXTURE IS CONNECTED a,b - LETTER(S) OF SWITCH(ES) CONTROLLING FIXTURE NL - NIGHT LIGHT (UNSWITCHED CIRCUIT).

WIRING DEVICES

$^{a}	SINGLE POLE SWITCH - "a" INDICATES SWITCH LEG - MOUNT 46" AFF.
$^{2}	DOUBLE POLE WALL SWITCH - AS ABOVE.
$^{3}	THREE-WAY SWITCH - AS ABOVE.
$^{4}	FOUR-WAY SWITCH - AS ABOVE.
$^{K}	KEY OPERATED SWITCH - AS ABOVE.
$^{LV}	LOW VOLTAGE / DIGITAL SWITCH; MULTIPLE BUTTONS AND SCENES AS PER PLANS - MOUNT 46" AFF.
$^{T}	WALL BOX TIMER SWITCH - MOUNT 46" AFF.
$^{FC}	FAN CONTROL SWITCH - MOUNT 46" AFF.
$^{M}	MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION - MOUNT ON SIDE OF UNIT OR AT 46" AFF.
$^{OS}	OCCUPANCY SENSOR WALL MOUNTED, MOUNT 46" AFF. "2" INDICATES DUAL RELAY.
$^{D}	DIMMER SWITCH - AS ABOVE, 1000 WATT RATING OR 0-10V AS REQUIRED. MOUNT 46" A.F.F.
LCP	LIGHTING CONTROL PANEL, QTY OF RELAY'S AS REQUIRED.
TS	TIME SWITCH - MOUNT 60" AFF.
PC	PHOTOCELL MOUNTED IN WP OUTLET BOX LOCATED ON ROOF, FACING NORTH, (U.N.O.).
LC	LIGHTING CONTACTOR FOR NUMBER OF CIRCUITS AS INDICATED ON PLAN.
OS	OCCUPANCY SENSOR, CEILING MOUNTED, "2" INDICATES 2 POLE.
J	JUNCTION BOX OR POINT OF CONNECTION - MOUNT 18" AFF OR AT HEIGHT REQUIRED BY RESPECTIVE EQUIPMENT ITEM MANUFACTURER.
	DUPLEX RECEPTACLE - MOUNT 18" AFF.
	DOUBLE DUPLEX RECEPTACLE - AS ABOVE.
	SINGLE CONVENIENCE RECEPTACLE - AS ABOVE.
	DUPLEX RECEPTACLE AS ABOVE - SPLIT WIRED, TOP HALF SWITCHED.
	DUPLEX 8" ABOVE COUNTER OR WALL HUNG LAVATORY.
	DOUBLE DUPLEX RECEPTACLE 8" ABOVE COUNTER
	CEILING MOUNTED DUPLEX RECEPTACLE, FLUSH IN CEILING (U.N.O.).
	FLOOR MOUNTED DUPLEX RECEPTACLE WITH BRASS PLATE AND CARPET FLANGE.
	SPECIAL PURPOSE OUTLET - MOUNT 18" AFF. TYPE AS REQUIRED BY RESPECTIVE EQUIPMENT MFR.
X	RECEPTACLE - AS ABOVE. X = TYPE INDICATED (SEE ABBREVIATIONS)
X	RECEPTACLE ABOVE COUNTER - AS ABOVE. X = TYPE INDICATED (SEE ABBREVIATIONS)
	COMBINATION POWER & DATA/VOICE FLOOR BOX OR POKE THRU - "FF" INDICATES FURNITURE FEED.
	PLUG-IN STRIP, MOUNT 18" AFF.
	POWER POLE WITH 120 VOLT DUPLEX RECEPTACLES.
	POWER POLE, TWO COMPARTMENT- ONE WITH 120 VOLT DUPLEX RECEPTACLES AND ONE WITH TELEPHONE OUTLETS.
	POWER POLE, TWO COMPARTMENT- ONE WITH 120 VOLT DUPLEX RECEPTACLES AND ONE WITH DATA OUTLETS.
	POWER POLE, TWO COMPARTMENT- ONE WITH 120 VOLT DUPLEX RECEPTACLES AND ONE WITH DATA AND TELEPHONE OUTLETS.

MOTORS AND EQUIPMENT

30/20/3	DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED) - MOUNT 60" AFF. 30/20/3 INDICATES SWITCH AMPS/FUSE AMPS/POLES.
	MOTOR STARTER, NEMA SIZE TO SUIT EQUIPMENT SERVED, WITH HAND-OFF-AUTO SELECTOR SWITCH, (U.N.O.).
	COMBINATION MOTOR STARTER, AS ABOVE AND DISCONNECT SWITCH.
30/2 ECB	ENCLOSED CIRCUIT BREAKER; AMPS/POLES RATING AS INDICATED.
DP	CONTROL PANEL FOR EQUIPMENT ITEM INDICATED ON PLAN.
VFD	VARIABLE FREQUENCY DRIVE FOR EQUIPMENT ITEM INDICATED ON PLAN.
	MULTIPLE PUSH BUTTONS - MOUNT 46" AFF, AS INDICATED (U.N.O.).
	ELECTRIC MOTOR.
	BRANCH CIRCUIT PANELBOARD - MOUNT TOP 78" AFF.
	SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER.
T	DRY-TYPE TRANSFORMER.
	KILOWATT HOUR METER BASE.

CIRCUITRY DESIGNATIONS

	BRANCH CIRCUITRY. CONCEALED IN WALLS OR ABOVE CEILINGS. ARROW INDICATES HOME RUN TO PANEL. SHORT SLASH MARKS INDICATE "HOT" WIRES; LONG SLASH MARK INDICATES "NEUTRAL" WIRE, LONG SLASH WITH SOLID CIRCLE INDICATES GREEN GROUNDING CONDUCTOR.
	BRANCH CIRCUITRY AS ABOVE, CONCEALED IN FLOOR SLAB OR UNDERGROUND.
	BRANCH CIRCUITRY AS ABOVE, EXPOSED ON WALLS OR STRUCTURE.
	CIRCUITRY UP - CIRCUITRY DOWN.

FIRE ALARM SYSTEM

FACP	FIRE ALARM CONTROL PANEL - MOUNT TOP 72" AFF. PROVIDE TWO (2) DATA DROPS.
FAAP	FIRE ALARM ANNUNCIATOR PANEL - MOUNT TOP 72" AFF.
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
FAPS	FIRE ALARM POWER SUPPLY - MOUNTED 72" A.F.F.
F	MANUAL PULL STATION - MOUNT 46" AFF.
SD	SMOKE DETECTOR - CEILING MOUNTED.
SD SS	SINGLE STATION SMOKE ALARM - CEILING MOUNTED - "CO" INDICATES COMBINATION CARBON MONOXIDE ALARM
F DD SD	DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBES.
F A	DUCT MOUNTED SMOKE DETECTOR'S REMOTE ANNUNCIATOR LAMP AND TEST SWITCH-MOUNT ON CEILING, (U.N.O.).
H	HEAT DETECTOR - CEILING MOUNTED (U.N.O.).
CO	CARBON MONOXIDE DETECTOR - CEILING MOUNTED.
F 15	VISUAL FLASHER - MOUNT 80" AFF TO BOTTOM OF FLASHER; (NUMERALS INDICATE CANDELA).
F V 30	HORN OR SPEAKER - MOUNT 80" AFF; V DENOTES COMBINATION AUDIBLE/VISUAL APPLIANCE. (NUMERALS INDICATE CANDELA).
F	VISUAL FLASHER - CEILING MOUNTED; (NUMERALS INDICATE CANDELA). FINISH TO MATCH CEILING.
F V 30	HORN OR SPEAKER - CEILING MOUNTED; V DENOTES COMBINATION AUDIBLE/VISUAL APPLIANCE. (NUMERALS INDICATE CANDELA). FINISH TO MATCH CEILING.
F V	CHIME - MOUNT 90" AFF, AS ABOVE.
F	EXTERIOR FA BELL - MOUNT 90" AFF.
F DH	FIRE ALARM MAGNETIC DOOR HOLDER.
F R	INTERFACE RELAY FOR CODE REQUIRED ACTION, OR AS NOTED ON PLANS; SEE SPECIFICATION.
F CM	CONTROL MODULE FOR CODE REQUIRED ACTION; SEE SPECIFICATION.
F MM	MONITOR MODULE FOR CODE REQUIRED ACTION, OR AS NOTED ON PLANS; SEE SPECIFICATION.
T	SPRINKLER TAMPER SWITCH (FURNISHED BY FPC).
F	SPRINKLER FLOW SWITCH (FURNISHED BY FPC).
P	SPRINKLER PRESSURE SWITCH (FURNISHED BY FPC).

AUXILIARY SYSTEMS

S	SPEAKER - CEILING MOUNTED.
	SPEAKER - WALL MOUNT 84" AFF.
IC	INTERCOM STATION - MOUNT 46" AFF.
V	VOLUME CONTROL - MOUNT 46" AFF.
M	DUPLEX MICROPHONE OUTLET - MOUNT 18" AFF.
M	DUPLEX MICROPHONE OUTLET - FLOOR MOUNTED.
M	MICROPHONE OUTLET - CEILING MOUNTED FOR CORD HUNG DEVICE.
TC	TIME CLOCK
P	PUSHBUTTON - MOUNT 46" AFF.
B	BELL - MOUNT 84" AFF.
V	VOICE OUTLET - MOUNT 18" AFF; W INDICATES WALL MOUNT PHONE PLATE AT 46" AFF.
	DATA OUTLET - MOUNT 18" AFF.
	DATA OUTLET - 8" ABOVE COUNTER.
	FLOOR MOUNTED DATA OUTLET.
	COMBINATION VOICE & DATA OUTLET - MOUNT 18" AFF.
	COMBINATION VOICE & DATA OUTLET - 8" ABOVE COUNTER.
	FLOOR MOUNTED COMBINATION VOICE & DATA OUTLET.
	WIRELESS ACCESS POINT - CEILING MOUNTED, U.N.O.
TTB	TELEPHONE TERMINAL BOARD - 3/4" FIRE RETARDANT PLYWOOD, 4' x 8' (U.N.O.).
TV	T.V. LOCATION
C	CLOCK OUTLET - MOUNT 78" AFF U.N.O.
GAP	GENERATOR ANNUNCIATOR PANEL.

ONE-LINE DIAGRAMS

	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	PANEL (1 OR 2 SECTIONS AS INDICATED)
20AS 20AF	FUSIBLE SWITCH: 30 = AMPERE RATING "AS" INDICATES AMP SWITCH FUSE: (20) = AMPERE RATING "AF" INDICATES AMP FUSE
#AF #AT	MOLDED CASE CIRCUIT BREAKER - "AF" INDICATES AMP FRAME "AT" INDICATES AMP TRIP
#AF #AT	CIRCUIT BREAKER, DRAWOUT TYPE - AS ABOVE
W M	KILOWATT HOUR/UTILITY METER
ST	SHUNT TRIP
AFME	ARC FLASH MAINTENANCE SWITCH
GFP	GROUND FAULT PROTECTION
	AUTOMATIC TRANSFER SWITCH
W M	KILOWATT HOUR/UTILITY METER
VM	VOLTMETER
AM	AMMETER
SPD	SURGE PROTECTIVE DEVICE - MOUNT DIRECTLY ADJACENT TO PROTECTED PANEL
0	MOTOR STARTER, SINGLE SPEED, 0 = STARTER SIZE
VFD	VARIABLE FREQUENCY DRIVE
KK	KIRK KEY INTERLOCK

SECURITY SYSTEM

IAP	INTRUSION ALARM PANEL
K	KEY PAD
MD	MOTION DETECTOR
C	DOOR CONTACT
CR	CARD READER/PROX READER
RQE	REQUEST TO EXIT
ES	ELECTRIC STRIKE (FURNISHED BY DIVISION 8)
EH	ELECTRIFIED HARDWARE (FURNISHED BY DIVISION 8)
ML	MAGNETIC LOCK (FURNISHED BY DIVISION 8)
GB	GLASS BREAK SENSOR
	VIDEO SURVEILLANCE CAMERA; MULTI-LENS AS SHOWN ON PLANS.
A	DURESS/HOLD UP ALARM

ABBREVIATIONS

AC	ABOVE COUNTER
AIC	AMP INTERRUPTING CURRENT
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR.
AFI/AFCI	ARC FAULT CIRCUIT INTERRUPTER TYPE DEVICE, (U.N.O.)
ATS	AUTOMATIC TRANSFER SWITCH
CATV	CABLE TELEVISION
C/CON	CONTROLLED RECEPTACLE
D	DEDICATED RECEPTACLE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR CONTRACTOR
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER; ROUGH-IN RECEPTACLE INCONSPICUOUSLY; COORDINATE WITH PC
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
FSS	FUSIBLE SAFETY SWITCH
GC	GENERAL CONTRACTOR
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, (U.N.O.)
H.I.D.	HIGH INTENSITY DISCHARGE
IG	ISOLATED GROUND TYPE DEVICE
KEC	KITCHEN EQUIPMENT CONTRACTOR
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MH	MOUNTING HEIGHT
MIN	MINIMUM
NF	NON-FUSED SWITCH
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
RT	RAINTIGHT
TP	TAMPER PROOF TYPE DEVICE
TCC	TEMPERATURE CONTROL CONTRACTOR
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
U/USB	USB TYPE RECEPTACLE
WP	WEATHERPROOF

MISCELLANEOUS

XXX X.X	MECHANICAL EQUIPMENT ITEM IDENTIFICATION PER EQUIPMENT SCHEDULE ON MECHANICAL DRAWINGS.
#	MISCELLANEOUS EQUIPMENT NUMBER. SEE MISCELLANEOUS EQUIPMENT SCHEDULE.

GENERAL DEMOLITION NOTES:

1. (THE OWNER INTENDS TO VACATE SPECIFIC AREAS OF WORK BEFORE DEMOLITION BEGINS. ALL OTHER AREAS SHALL REMAIN OCCUPIED AND IN ACTIVE USE. UTILITIES AND SERVICES TO EXISTING ACTIVE AREAS SHALL NOT BE INTERRUPTED WITHOUT THE OWNER'S APPROVAL AS TO THE TIME AND DURATION. THE OWNER WILL CONTINUE TO OCCUPY THE REST OF THE EXISTING FACILITIES THROUGHOUT THE CONSTRUCTION OPERATIONS. THE ELECTRICAL CONTRACTOR SHALL SO ORGANIZE HIS WORK AS TO CAUSE A MINIMUM OF UTILITY INTERRUPTIONS, WHICH SHALL BE SCHEDULED AT THE CONVENIENCE OF THE OWNER.)
2. THE OWNER INTENDS TO OCCUPY THE BUILDING THROUGHOUT CONSTRUCTION. UTILITIES AND SERVICES SHALL NOT BE INTERRUPTED WITHOUT THE OWNER'S APPROVAL AS TO THE TIME AND DURATION. THE CONTRACTOR SHALL SO ORGANIZE THEIR WORK AS TO CAUSE A MINIMUM OF UTILITY INTERRUPTIONS, WHICH SHALL BE SCHEDULED AT THE CONVENIENCE OF THE OWNER.
3. ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SPECIAL OUTLETS, ETC., WHICH ARE NOTED TO BE DEMOLISHED, OR ARE SHOWN WITH DASHED LINE SYMBOLS ON THE DEMOLITION PLANS, SHALL BE REMOVED. ASSOCIATED WIRING AND CONDUIT SHALL BE REMOVED BACK TO THE SOURCE OR EXISTING UPSTREAM DEVICE TO REMAIN AND MADE SAFE.
4. REMOVE EQUIPMENT, FIXTURES, DEVICES AND OUTLETS AS SPECIFIED AND SHOWN ON DRAWINGS, AND AS MAY BECOME NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. EXAMINE ALL EXISTING WALLS AND CEILING DESIGNATED FOR REMOVAL TO DETERMINE THE CONDUIT AND WIRING THAT WILL REQUIRE REMOVAL.
5. FOR EXISTING ELECTRICAL DEVICES IN WALLS TO BE REMOVED, DISCONNECT POWER, REMOVE CONDUCTORS AND CAP CONDUIT BELOW FLOOR OR ABOVE CEILING AS REQUIRED. DEVICES ARE TO BE REMOVED ALONG WITH WALL BY GENERAL CONTRACTOR.
6. FOR EXISTING ELECTRICAL EQUIPMENT, FIXTURES AND DEVICES TO BE REMOVED FROM WALLS WHICH REMAIN, DISCONNECT POWER, REMOVE CONDUCTORS, REMOVE THE ELECTRICAL ITEM, AND PATCH AND FINISH THE SURFACE AS REQUIRED TO MATCH THE EXISTING, OR MAKE READY FOR NEW WALL FINISH. PROVIDE BLANK PLATES WHERE NOTED OR REQUIRED.
7. EXISTING RECEPTACLES, DEVICES, ETC. TO REMAIN ARE DENOTED BY THIN SOLID LINE OR MAY NOT BE INDICATED AT ALL. THESE DEVICES SHALL BE EXTENDED TO BE FLUSH WITH NEW FINISH ON EXISTING WALL WHERE REQUIRED.
8. MAINTAIN CIRCUIT CONTINUITY TO ALL EQUIPMENT, FIXTURES, DEVICES, ETC., TO REMAIN IN USE WHETHER NOTED ON THE PLANS OR NOT. FIELD VERIFY EXISTING ITEMS TO REMAIN IN USE. WIRING FOR EXISTING CIRCUITS WHICH ARE PARTIALLY ABANDONED SHALL BE RECONNECTED BY THE ELECTRICAL CONTRACTOR TO SERVICE THE REMAINING OUTLETS ON THE CIRCUIT.
9. ALL WIRING FOR A CIRCUIT WHICH IS TO BE REMOVED SHALL BE REMOVED BACK TO THE PANEL WHICH SUPPLIED THE CIRCUIT.
10. EXISTING CONDUIT & CONDUCTORS MAY BE REUSED WHERE FEASIBLE. ALL UNUSED CONDUIT MADE EMPTY BY THIS DEMOLITION SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR. WHERE CONDUITS EXTENDING OUT OF THE FLOOR ARE TO BE REMOVED, CUT THE CONDUIT OFF 1/2" BELOW THE FLOOR LINE AND PATCH.
11. ALL ACTIVE CIRCUITING THAT RUNS THROUGH THIS SPACE, ORIGINATING AND/OR TERMINATING IN OTHER SPACES, SHALL REMAIN IN PLACE. COORDINATE WITH NEW CEILING WORK FOR RAISED CEILING WHICH MAY REQUIRE CIRCUITING RELOCATION.
12. ALL UNUSED TELEPHONE AND DATA CABLES SHALL BE REMOVED. ANY OTHER UNUSED LOW VOLTAGE SYSTEMS CABLES SHALL ALSO BE REMOVED.
13. ALL EXISTING EQUIPMENT, LIGHTING FIXTURES, WIRING DEVICES, AND MATERIALS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION, UNLESS OTHERWISE NOTED. ALL ITEMS NOTED THAT THE OWNER CHOOSES TO KEEP SHALL BE TRANSFERRED TO THEIR STORAGE AREA BY THE ELECTRICAL CONTRACTOR.
14. FOR ALL EXISTING ELECTRICAL WIRING DEVICES, TELEPHONE, DATA ETC., CONTRACTOR SHALL REMOVE/REINSTALL COVERPLATES AS REQUIRED TO ALLOW FOR NEW FINISHES.
15. INFORMATION ON THE EXISTING CONDITIONS PLANS ARE COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT, WIRING DEVICES AND FIXTURES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

ELECTRICAL SHEET LIST

Sheet Number	Sheet Name
E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
E0.2	ELECTRICAL ONE-LINE DIAGRAM - OPS / VEHICAL STORAGE
E0.3	ELECTRICAL ONE-LINE DIAGRAM - MAINT / WASHBAY
E0.4	ELECTRICAL ONE-LINE DIAGRAM - OFFICE
E0.5	ELECTRICAL SITE PLAN
E0.6	ELECTRICAL LIGHT FIXTURE SCHEDULE
E0.7	ELECTRICAL DETAILS
E0.8	ELECTRICAL DETAILS
E0.9	ELECTRICAL DETAILS
E0.10	ELECTRICAL PANEL SCHEDULES - OPERATIONS
E0.11	ELECTRICAL PANEL SCHEDULES - OPERATIONS
E0.12	ELECTRICAL PANEL SCHEDULES - WAREHOUSE & MAINT
E0.13	ELECTRICAL PANEL SCHEDULES - OFFICE
E0.14	ELECTRICAL PANEL SCHEDULES - OFFICE
ED1.1	ELECTRICAL DEMO LIGHTING PLAN - OPERATIONS
ED2.1	ELECTRICAL DEMO PLAN - OPERATIONS
ED4.1	ELECTRICAL EQUIPMENT DEMOLITION PLAN - OPERATIONS
E1.1	ELECTRICAL LIGHTING PLAN - OPERATIONS
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E1.3	ELECTRICAL LIGHTING PLAN - MAINTENANCE AND COVERED STORAGE
E1.4	ELECTRICAL LIGHTING PLAN - OFFICE
E2.1	ELECTRICAL POWER AND DATA PLAN - OPERATIONS
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E2.4	ELECTRICAL POWER AND DATA PLAN - OFFICE
E3.1	ELECTRICAL FIRE ALARM AND SECURITY PLAN - OPERATIONS
E3.2	ELECTRICAL FIRE ALARM AND SECURITY PLAN - WAREHOUSE
E3.3	ELECTRICAL FIRE ALARM AND SECURITY PLAN - MAINTENANCE AND COVERED STORAGE
E3.4	ELECTRICAL FIRE ALARM AND SECURITY PLAN - OFFICE
E4.1	ELECTRICAL EQUIPMENT PLAN - OPERATIONS
E4.2	ELECTRICAL EQUIPMENT PLAN - WAREHOUSE
E4.3	ELECTRICAL EQUIPMENT PLAN - MAINTENANCE AND COVERED STORAGE
E4.4	ELECTRICAL EQUIPMENT PLAN - OFFICE

GENERAL CONSTRUCTION NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY PERMITS, LICENSES, INSPECTIONS AND FEES FROM THE LOCAL AUTHORITIES. CONTRACTOR SHALL BE LICENSED BY LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION..
2. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL BUILDING CODE (IBC) AND OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.
3. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
4. THE ENTIRE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND AS SHOWN ON THE DRAWINGS. PROVIDE A GROUND WIRE IN EACH POWER CONDUIT, SIZED PER THE NEC.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND DISCIPLINES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTIONS. COORDINATE ALL WIRING DEVICE LOCATIONS AND ELEVATIONS INDICATED ON THE PLANS WITH THE OWNER, ARCHITECT AND FINAL FURNITURE/EQUIPMENT LAYOUTS.
7. CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL INSTALLED OR FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING.
8. MAINTAIN AND VERIFY ELECTRICAL EQUIPMENT CLEARANCES AND WORKING SPACE PER NEC.
9. PROVIDE ELECTRICAL SYSTEMS IDENTIFICATION AS INDICATED IN THE SPECIFICATIONS AND REQUIRED BY THE NEC OR NFPA 70E.
10. IF ANYTHING ON THE PLANS IS NOT IN COMPLIANCE WITH NATIONAL, STATE OR LOCAL CODES, THE ENGINEER SHALL BE ADVISED BY THE ELECTRICAL CONTRACTOR DURING THE BIDDING PROCESS. THERE ARE TO BE NO CHANGES TO THE CONTRACT DOCUMENTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS FOR NEW WORK, SAFETY, ETC., IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION, (I.E. OSHA, NEC, ETC.)
12. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR PHASING AND SCHEDULING OF THIS PROJECT. COORDINATE WITH OWNER'S FIELD REPRESENTATIVE.
13. VERIFY ALL INDICATED DIMENSIONS BY FIELD MEASUREMENTS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
14. PROVIDE ACCESS PANELS OR DOORS WHERE EQUIPMENT OR DEVICES REQUIRED TO BE ACCESSIBLE ARE CONCEALED BEHIND INACCESSIBLE SURFACES.
15. PRIOR TO TURNOVER, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH, DIRT, DEBRIS AND STAINS ON THEIR WORK OR CAUSED BY THEIR WORK AND SHALL THOROUGHLY CLEAN ALL EQUIPMENT, FIXTURES, DEVICES, ETC. CONTRACTOR SHALL REPLACE, TOUCH-UP OR REFINISH THE FACTORY FINISH ON EQUIPMENT, FIXTURES, DEVICES, ETC. MARRED DURING SHIPMENT, INSTALLATION OR CONSTRUCTION.
16. PANELBOARD CIRCUIT BREAKERS SHALL BE EQUIPPED WITH BOLT-ON TYPE BREAKERS, PHENOLIC NAME TAGS AND KEYED LOCK AND LATCH. EACH PANEL SHALL BE PROVIDED WITH TWO KEYS WITH ALL PANELS KEYED ALIKE. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE TYPE SWD SHALL BE APPROVED FOR THIS PURPOSE. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR TYPE.
17. ALL CIRCUITS INDICATED ON THESE DRAWINGS ARE 20A, 1P CIRCUIT BREAKERS IN PANELS UNLESS NOTED OTHERWISE.
18. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANELBOARD SHALL BE EQUIPPED WITH A TYPE WRITTEN CIRCUIT DIRECTORY. ALL EXISTING PANELBOARDS THAT HAVE CIRCUITS ALTERED SHALL HAVE A NEW TYPE WRITTEN CIRCUIT DIRECTORY SHOWING CIRCUIT REVISIONS AND EXISTING CIRCUIT CONDITIONS ON THE NEW DIRECTORY.
19. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS OTHERWISE NOTED. ALL CONDUIT IN SLABS OR EXTERIOR TO BUILDING SHALL BE MINIMUM 1". PROVIDE A NYLON/POLY PULL CORD IN ALL EMPTY CONDUITS.
20. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COPPER CONDUCTORS TYPE THHN OR THWN FOR ALL INTERIOR BUILDING WIRE. FOR EXTERIOR FEEDERS AND BRANCH CIRCUITS PROVIDE ALL COPPER CONDUCTORS TYPE XHHW-2.
21. VOLTAGE DROP MINIMUM WIRE SIZING (20A CIRCUIT) USE: 120V CIRCUIT OVER 100' SHALL BE #10 MINIMUM; 120V CIRCUIT OVER 175' SHALL BE #8 MINIMUM. 208V CIRCUIT OVER 200' SHALL BE #10 MINIMUM. 277V CIRCUIT OVER 200' SHALL BE #10 MINIMUM. MINIMUM WIRE SIZE FOR ANY 20A BRANCH CIRCUIT SHALL BE #12. FURTHERMORE, CONSIDER ALL DERATING OF CONDUCTORS AS REQUIRED IN ACCORDANCE WITH THE APPLICABLE NEC.
22. ELECTRICAL CONTRACTOR SHALL HAVE THE OPTION OF GROUPING HOME RUNS IN ONE CONDUIT, PER THE REQUIREMENTS OF SECTION 310 OF THE NATIONAL ELECTRICAL CODE. NO MORE THAN FOUR (4) CIRCUITS SHALL BE ALLOWED TO BE GROUPED AND INSTALLED IN A SINGLE JUNCTION BOX. EC SHALL BE RESPONSIBLE FOR INCREASING CONDUCTOR SIZE AND DERATING. HOME RUNS WITH MORE THAN THREE CIRCUITS SHALL BE #10 AWG. CONDUCTOR MINIMUM. PROVIDE DEDICATED NEUTRALS FOR EACH PHASE CONDUCTOR AND CONSIDER THEM AS A CURRENT CARRYING CONDUCTOR FOR DERATING.
23. ALL HOME RUNS SHALL BE IN EMT CONDUIT. MC CABLE IS PERMITTED ABOVE CEILINGS FROM HOMERUNS TO FIXTURES AND WIRING DEVICES WITHIN WALLS AND FURRED COLUMNS. REFER TO ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION.
24. ALL EMERGENCY SERVICE WIRING SHALL BE ENTIRELY INDEPENDENT AND BE IN SEPARATE CONDUIT, PULL BOXES, PANELS, ETC.
25. ONLY PVC CONDUIT SHALL BE PERMITTED IN CONCRETE SLAB, EXCEPT FOR GRS ELLS.
26. WHEN SAW CUTTING FLOOR IS REQUIRED, CONTRACTOR SHALL LIMIT DEPTH TO A MINIMUM. ROUTE NEW CONDUITS BELOW OR ABOVE EXISTING CONDUITS; WATER PIPES, ETC. CONDUIT SHALL HAVE A MINIMUM OF 1" OF CONCRETE COVER.
27. ELECTRICAL CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC, CATV AND TELEPHONE UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND INCLUDE ALL COSTS IN BASE BID.
28. TELEPHONE SHALL INCLUDE AN UNDERGROUND SERVICE CONDUIT WITH PULL TAPE, 4'x8'x3/4" PAINTED FIRE RETARDANT PLYWOOD TERMINAL BOARD, 120V DOUBLE DUPLEX RECEPTACLE, ISOLATED TELECOM MAIN GROUND BUS AND #6 AWG COPPER GROUND CONDUCTOR TO BUILDING SERVICE GROUND.
29. HEATING, VENTILATING, AIR CONDITIONING EQUIPMENT AND PLUMBING EQUIPMENT ALONG WITH ALL OTHER MISCELLANEOUS EQUIPMENT, MOTORS, AND KITCHEN EQUIPMENT SHALL BE POWERED AS CALLED OUT ON EQUIPMENT PROVIDER'S SCHEDULES UNLESS OTHERWISE NOTED. EC SHALL PROVIDE DISCONNECTING MEANS UNLESS SPECIFICALLY NOTED ON EQUIPMENT PROVIDER'S SCHEDULE.
30. SUPPORT ALL CONDUITS FROM STRUCTURAL WALLS, SLABS, MEMBERS AND ROOF JOISTS. DO NOT SUPPORT CONDUITS FROM CEILING TIE WIRES, DUCTWORK, PIPING, ROOF DECK OR OTHER NON-STRUCTURAL MEMBERS.
31. SUPPORTING OF ELECTRICAL CONDUITS: THE INDIVIDUAL BRANCH CIRCUIT CONDUIT AND ASS

FEEDER SCHEDULE

PLAN MARK	OVERCURRENT PROTECTION	AMPERAGE	FEEDER SIZE (COPPER, U.N.O.)
20 20N	20A 20A	20A 20A	3 #12 & 1 #12G., 3/4"C. 4 #12 & 1 #12G., 3/4"C.
30 30N	25A, 30A 25A, 30A	30A 30A	3 #10 & 1 #10G., 3/4"C. 4 #10 & 1 #10G., 3/4"C.
40 40N	35A, 40A 35A, 40A	40A 40A	3 #8 & 1 #10G., 3/4"C. 4 #8 & 1 #10G., 3/4"C.
50 50N	45A, 50A 45A, 50A	55A 55A	3 #6 & 1 #10G., 3/4"C. 4 #6 & 1 #10G., 1"C.
70 70N, 70NT	60A, 70A 60A,70A	70A 70A	3 #4 & 1 #8G., 1-1/4"C. 4 #4 & 1 #8G., 1-1/4"C.
100 100N	80A, 90A, 100A 80A, 90A, 100A	100A 100A	3 #3 & 1 #8G., 1-1/4"C. 4 #3 & 1 #8G., 1-1/4"C.
110 110N, 110NT	110A 110A	115A 115A	3 #2, 1 #6G, 1-1/4"C 4 #2, 1 #6G, 1-1/4"C
125 125N	125A 125A	130A 130A	3 #1 & 1 #6G., 1-1/2"C. 4 #1 & 1 #6G., 1-1/2"C.
150 150N	150A 150A	150A 150A	3 #1/0 & 1 #6G., 1-1/2"C. 4 #1/0 & 1 #6G., 2"C.
175 175N 175NT	175A 175A 175A	175A 175A 175A	3 #2/0 & 1 #6G., 2"C. 4 #2/0 & 1 #6G., 2"C. 4 #2/0 & 1 #4G., 2"C.
200 200N	200A 200A	200A 200A	3 #3/0 & 1 #6G., 2"C. 4 #3/0 & 1 #6G., 2-1/2"C.
225 225N 225NT	225A 225A 225A	230A 230A 230A	3 #4/0 & 1 #4G., 2"C. 4 #4/0 & 1 #4G., 2-1/2"C. 4 #4/0 & 1 #2G., 2-1/2"C.
250 250N 250NT	250A 250A 250A	255A 255A 255A	3-250 kcmil & 1 #4G., 2-1/2"C. 4-250 kcmil & 1 #4G., 3"C. 4-250 kcmil & 1 #2G., 3"C.
300 300N 300NT	300A 300A 300A	310A 310A 310A	3-350 kcmil & 1 #4G., 3"C. 4-350 kcmil & 1 #4G., 3"C. 4-350 kcmil & 1 #2G., 3"C.
350 350N	350A 350A	380A 380A	3-500 kcmil & 1 #3G., 3"C. 4-500 kcmil & 1 #3G., 3-1/2"C.
400 400N 400NT	400A 400A 400A	400A 400A 400A	TWO SETS OF [3 #3/0 & 1 #3G., 2"C] TWO SETS OF [4 #3/0 & 1 #3G., 2"C] TWO SETS OF [4 #3/0 & 1 #2G., 2"C]
420 420N 420NT	400A 400A 400A	420A 420A 420A	3-600 kcmil & 1 #3G., 4"C. 4-600 kcmil & 1 #3G., 4"C. 4-600 kcmil & 1 #1/0G., 4"C.
450 450N	450A 450A	460A 460A	TWO SETS OF [3 #4/0, 1 #2G, 2"C] TWO SETS OF [4 #4/0, 1 #2G, 2"C]
500 500N	500A 500A	510A 510A	TWO SETS OF [3-250 kcmil & 1 #2G., 2-1/2"C] TWO SETS OF [4-250 kcmil & 1 #2G., 3"C]
600 600N 600NT	600A 600A 600A	620A 620A 620A	TWO SETS OF [3-350 kcmil & 1 #1G., 3"C] TWO SETS OF [4-350 kcmil & 1 #1G., 3"C] TWO SETS OF [4-350 kcmil & 1 #2/0G., 3"C]
700 700N 700NT	700A 700A 700A	760A 760A 760A	TWO SETS OF [3-500 kcmil & 1 #1/0G., 3"C] TWO SETS OF [4-500 kcmil & 1 #1/0G., 3"C] TWO SETS OF [4-500 kcmil & 1 #2/0G., 3"C]
800 800N 800NT	800A 800A 800A	840A 840A 840A	TWO SETS OF [3-600 kcmil & 1 #1/0G., 4"C] TWO SETS OF [4-600 kcmil & 1 #1/0G., 4"C] TWO SETS OF [4-600 kcmil & 1 #3/0G., 4"C]
1000 1000N	1000A 1000A	1140A 1140A	THREE SETS OF [3-500 kcmil & 1 #2/0G., 3-1/2"C.] THREE SETS OF [4-500 kcmil & 1 #2/0G., 3-1/2"C.]
1200 1200N 1200NT	1200A 1200A 1200A	1240A 1240A 1240A	FOUR SETS OF [3-350 kcmil & 1 #3/0G., 3"C] FOUR SETS OF [4-350 kcmil & 1 #3/0G, 3"C] FOUR SETS OF [4-350 kcmil & 1 #4/0G, 3"C]
1600 1600N	1600A 1600A	1680A 1680A	FOUR SETS OF [3-600 kcmil & 1 #4/0G., 4"C] FOUR SETS OF [4-600 kcmil & 1 #4/0G., 4"C]
2000 2000N	2000A 2000A	2280A 2280A	SIX SETS OF [3-500 kcmil & 1-250 kcmil G., 3-1/2"C.] SIX SETS OF [4-500 kcmil & 1-250 kcmil G., 4"C.]
2500 2500N	2500A 2500A	2660A 2660A	SEVEN SETS OF [3-500 kcmil & 1-350 kcmil G., 4"C] SEVEN SETS OF [4-500 kcmil & 1-350 kcmil G., 4"C]
3000 3000N	3000A 3000A	3040A 3040A	EIGHT SETS OF [3-500 kcmil & 1-400 kcmil G., 4"C] EIGHT SETS OF [4-500 kcmil & 1-400 kcmil G., 4"C]
4000 4000N	4000A 4000A	4180A 4180A	TEN SETS OF [3-600 kcmil & 1-500 kcmil G., 4"C] TEN SETS OF [4-600 kcmil & 1-500 kcmil G., 4"C]

FEEDER SCHEDULE NOTES:
1. AN 'S' FOLLOWING A FEEDER SIZE INDICATES A SERVICE FEEDER; GROUND CONDUCTORS MAY BE OMITTED FROM THESE SERVICE FEEDERS.
2. ALL FIRE PUMP FEEDERS FROM A SERVICE TRANSFORMER SHALL BE PROVIDED WITH A NEUTRAL.

ELECTRICAL SERVICE RESPONSIBILITY SCHEDULE		
DESCRIPTION	FURNISHED BY	INSTALLED BY
PRIMARY CONDUIT	UTIL	UTIL
PRIMARY CONDUCTORS & TERMINATIONS	UTIL	UTIL
UTILITY TRANSFORMER CONCRETE PAD - NOTE 1	EC	EC
UTILITY TRANSFORMER	UTIL	UTIL
ALL SERVICE TRANSFORMER GROUND RODS NOTE 1	UTIL	UTIL
CT'S/PT'S IN TRANSFORMER - NOTE 4	UTIL	UTIL
SECONDARY CONDUIT (FROM X-FMR TO ATS/DISC) NOTE 2 & 5	EC	EC
SECONDARY CONDUCTOR (FROM X-FMR TO ATS/DISC) NOTE 1	EC	EC
SECONDARY CONDUCTOR TERMINATION @ ATS/DISC	EC	EC
SECONDARY CONDUCTOR TERMINATION @ TRANSFORMER	UTIL	UTIL
SECONDARY CONDUCTOR LUGS (AT TRANSFORMER)	UTIL	UTIL
SECONDARY CONDUCTOR LUGS (AT ATS/DISC)	EC	EC
METER - NOTE 3	UTIL	UTIL
METER SOCKET/WIRING/INSTALLATION ON TRANSFORMER	UTIL	UTIL

EC - ELECTRICAL CONTRACTOR
GC - GENERAL CONTRACTOR
UTIL - UTILITY CO.

UTILITY CO. - TAYLOR COUNTY ELECTRICAL COOPERATIVE
XXXX XXXX
EMAIL: XXXXX

ELECTRICAL SERVICE RESPONSIBILITY SCHEDULE NOTES:

1. THE ELC SHALL INSTALL THE ELECTRICAL SERVICE IN CONFORMANCE WITH ALL GOVERNING RULES AND REGULATIONS - CITY, LOCAL UTILITY CO. ETC. THE ELC SHALL CONFORM WITH THE UTILITY CO.'S SERVICE REQUIREMENTS. REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO TRANSFORMER PAD LOCATION, SERVICE TRANSFORMER GROUNDS, REQUIRED INSPECTIONS, SECONDARY CONDUCTOR LENGTH LEFT AT SERVICE TRANSFORMER, CLEARANCES, ETC.

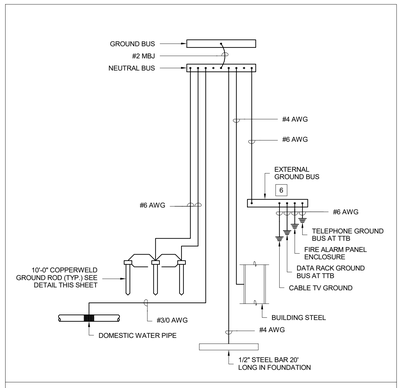
2. SECONDARY CONDUITS SHALL BE PER THE ONE LINE DIAGRAM.

3. UTILITY COMPANY WILL FURNISH THE METER. METER CONDUCTORS AND MAKE ALL TERMINATIONS. COORDINATE EXACT REQUIREMENTS WITH THE UTILITY COMPANY. PROVIDE GROUNDING CONDUCTOR PER UTILITY REQUIREMENTS.

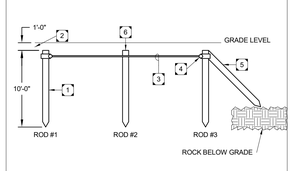
4. UTILITY COMPANY WILL PROVIDE THE CTS/PTS.

5. INSTALL PULL ROPE IN SECONDARY CONDUIT(S).

6. EC TO PROVIDE PRIMARY CONDUITS BELOW AND 3' PAST XFMR PAD.



SERVICE ENTRANCE GROUNDING DETAIL
NO SCALE



KEYED NOTES:

1. 3/4" x 10' COPPER CLAD STEEL GROUND ROD.
2. 1" COVER MINIMUM TO TOP OF ROD.
3. #6 BARE COPPER CONDUCTOR TYPICAL FOR THREE ROD SYSTEM.
4. EXOTHERMIC WELDED ELECTRODE CONNECTION - TYPICAL.
5. IF ROCK IS ENCOUNTERED, GROUND RODS SHALL BE PERMITTED TO BE DRIVEN AT AN OPPOSING 45° ANGLE FROM EACH OTHER.
6. NOTE 10' MINIMUM HORIZONTAL SPACING BETWEEN GROUND RODS IN A TRIANGULAR CONFIGURATION.

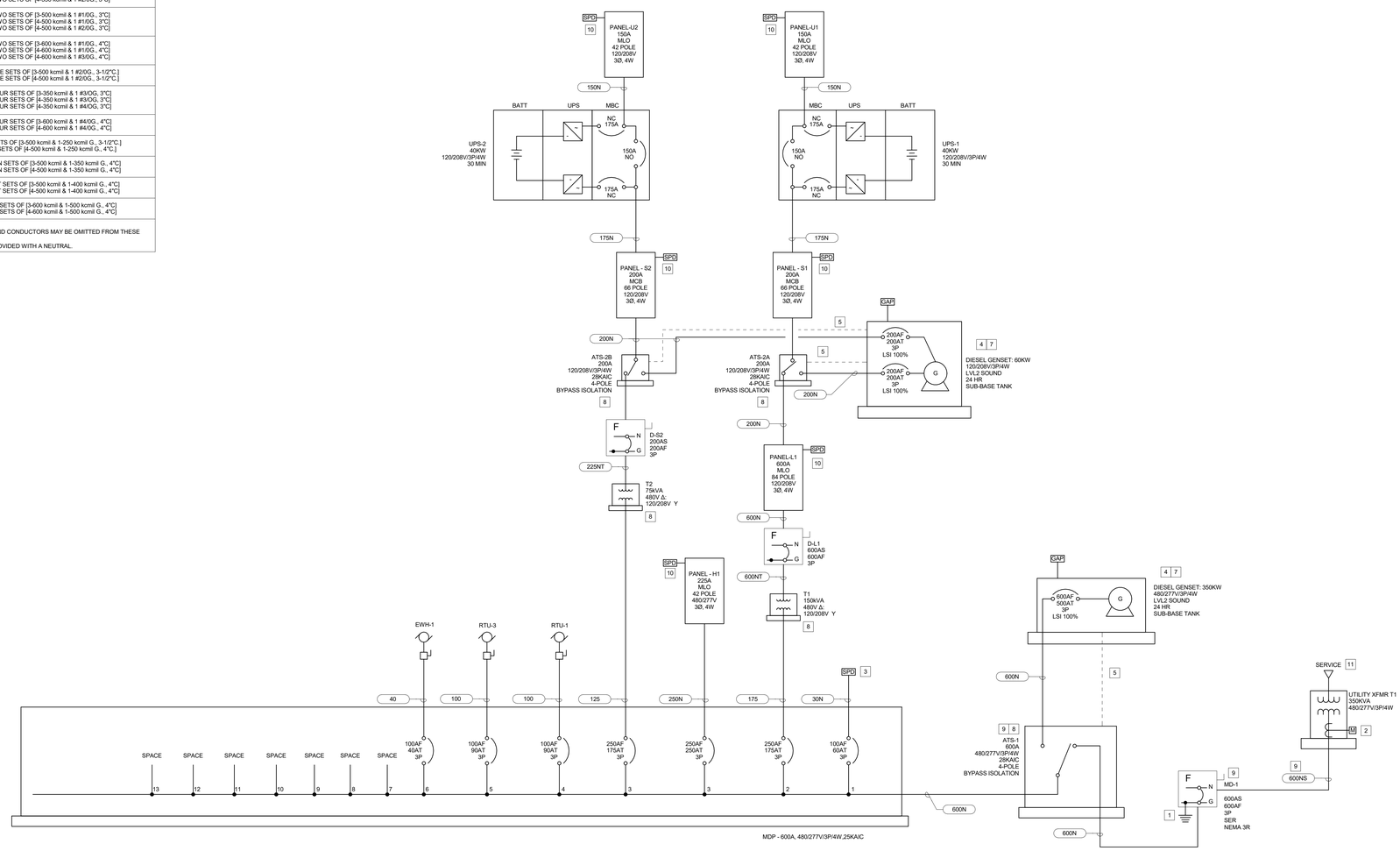
THREE GROUND ROD ELECTRODE DETAIL
NO SCALE

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
3. OVERSIZED FEEDERS HAVE BEEN SIZED TO LIMIT VOLTAGE DROP. PROVIDE PROPER LUGS OR PIGTAIL ADAPTERS. FUSES FOR SPECIFIC MECHANICAL EQUIPMENT HAVE BEEN PROVIDED TO LIMIT AVAILABLE FAULT CURRENT AT THE EQUIPMENT.
4. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.

KEYED NOTES:

1. PROVIDE SERVICE ENTRANCE GROUNDING PER DETAILS ON THIS SHEET. PROVIDE ALL GROUNDING PER NEC 250.50.
2. METER AND METERING CONDUCTORS WILL BE PROVIDED BY UTILITY. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY FOR LOCATION AND GROUNDING.
3. PROVIDE SERVICE ENTRANCE TYPE SURGE PROTECTION DEVICE (SPD). SEE SPECIFICATIONS FOR DETAILS AND VERIFY OVER-CURRENT PROTECTION DEVICE SIZE WITH THE MANUFACTURER PRIOR TO INSTALLATION.
4. PROVIDE GENERATOR IN WEATHERPROOF SOUND ATTENUATED HOUSING. SEE SPECIFICATIONS FOR DETAILS. PROVIDE WITH GENERATOR ANNUNCIATOR PANEL. REFER TO E2.X SERIES SHEETS FOR LOCATIONS. PROVIDE CONCRETE PAD PER DETAIL X/E0.X.
5. PROVIDE LOW-VOLTAGE CONDUCTORS FROM THE AUTOMATIC TRANSFER SWITCH TO THE GENERATOR FOR GENERATOR-START ON POWER FAILURE.
6. PROVIDE ISOLATED GROUND BUS TO BE MOUNTED EXTERNAL TO ENCLOSURE AT THE SERVICE EQUIPMENT, PER NEC 250-94.
7. PROVIDE 208V, 1Ø, 40A LOAD CENTER FOR GENERATOR BATTERY CHARGER, HEATER, ETC., INSIDE THE GENERATOR ENCLOSURE.
8. PROVIDE 4" HIGH HOUSEKEEPING PAD BELOW EQUIPMENT. PAD SHALL BE 1" LARGER IN EACH DIRECTION THAN EQUIPMENT TO BE SET.
9. EC PROVIDED FUSED DISCONNECT SWITCH, ATS, SECONDARY SERVICE CONDUCTORS, CONDUIT, AND TERMINATIONS TO DISCONNECT AND ATS BY EC.
10. PROVIDE PANELBOARD TYPE SURGE PROTECTION DEVICE (SPD). SEE SPECS FOR MORE DETAILS AND VERIFY OVERCURRENT PROTECTION DEVICE SIZE WITH MANUFACTURER PRIOR TO INSTALLATION.
11. EC SHALL PROVIDE CONDUITS AS INDICATED BELOW AND 3 FOOT PAST CONCRETE PAD TO ALLOW FOR UTILITY PROVIDED CONDUCTORS. REFER TO E0.5.



ELECTRICAL ONE LINE DIAGRAM - OFFICE
NO SCALE

M+H ARCHITECTS

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Drawn By:	KWS
Checked By:	JAH

Drawing Title:

ELECTRICAL ONE-LINE DIAGRAM - OFFICE

E0.4

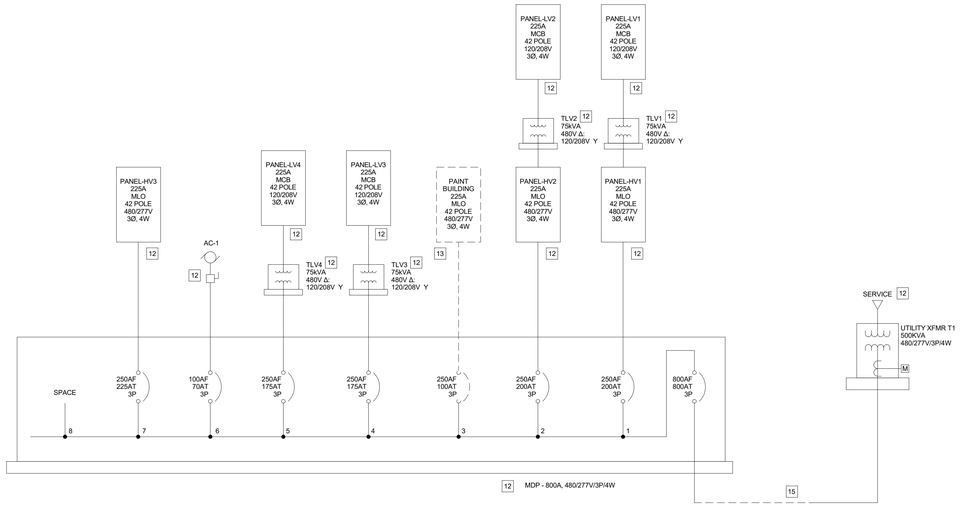
SSC JOB# 2025456_NOT FOR CONSTRUCTION

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
3. OVERSIZED FEEDERS HAVE BEEN SIZED TO LIMIT VOLTAGE DROP. PROVIDE PROPER LUGS OR PIGTAIL ADAPTERS. FUSES FOR SPECIFIC MECHANICAL EQUIPMENT HAVE BEEN PROVIDED TO LIMIT AVAILABLE FAULT CURRENT AT THE EQUIPMENT.
4. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.

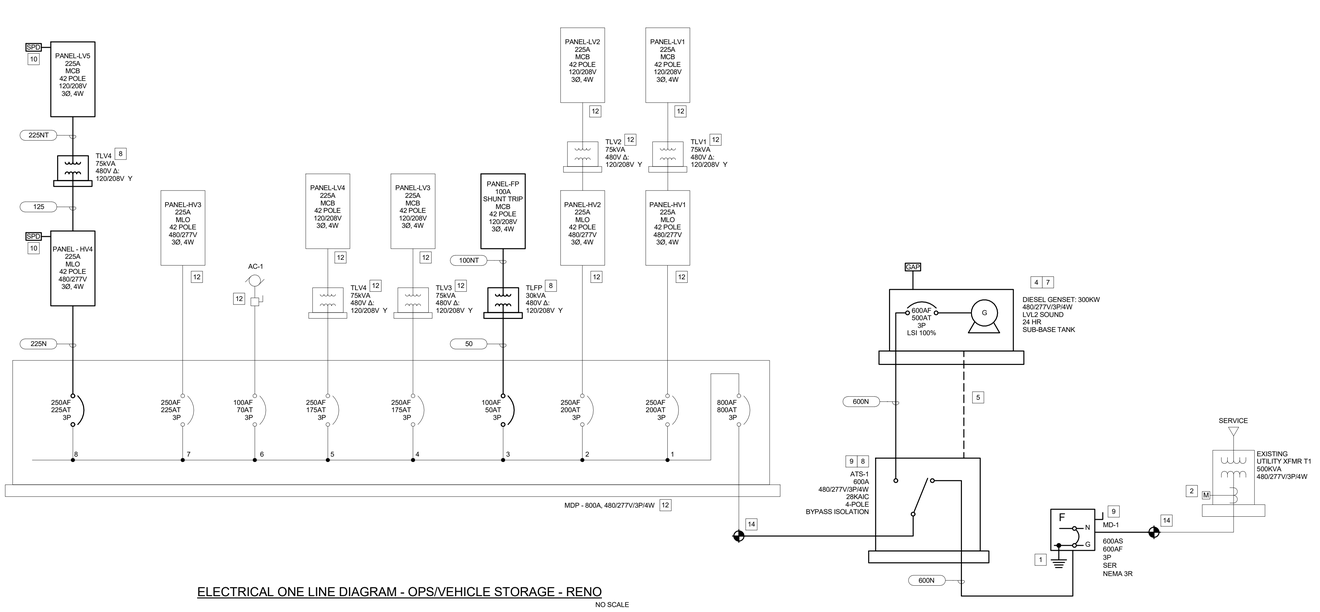
ELECTRICAL KEYED NOTES:

1. PROVIDE SERVICE ENTRANCE GROUNDING PER DETAILS ON THIS SHEET. PROVIDE ALL GROUNDING PER NEC 250.50.
2. METER AND METERING CONDUCTORS WILL BE PROVIDED BY UTILITY. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY FOR LOCATION AND GROUNDING.
3. PROVIDE SERVICE ENTRANCE TYPE SURGE PROTECTION DEVICE (SPD). SEE SPECIFICATIONS FOR DETAILS AND VERIFY OVER-CURRENT PROTECTION DEVICE SIZE WITH THE MANUFACTURER PRIOR TO INSTALLATION.
4. PROVIDE GENERATOR IN WEATHERPROOF SOUND ATTENUATED HOUSING. SEE SPECIFICATIONS FOR DETAILS. PROVIDE WITH GENERATOR ANNUNCIATOR PANEL. REFER TO E2.X SERIES SHEETS FOR LOCATIONS. PROVIDE CONCRETE PAD PER DETAIL X/E0.X.
5. PROVIDE LOW-VOLTAGE CONDUCTORS FROM THE AUTOMATIC TRANSFER SWITCH TO THE GENERATOR FOR GENERATOR-START ON POWER FAILURE.
6. PROVIDE ISOLATED GROUND BUS TO BE MOUNTED EXTERNAL TO ENCLOSURE AT THE SERVICE EQUIPMENT, PER NEC 250-94.
7. PROVIDE 208V, 1∅, 40A LOAD CENTER FOR GENERATOR BATTERY CHARGER, HEATER, ETC., INSIDE THE GENERATOR ENCLOSURE.
8. PROVIDE 4" HIGH HOUSEKEEPING PAD BELOW EQUIPMENT. PAD SHALL BE 1" LARGER IN EACH DIRECTION THAN EQUIPMENT TO BE SET.
9. EC PROVIDED FUSED DISCONNECT SWITCH, ATS, SECONDARY SERVICE CONDUCTORS, CONDUIT, AND TERMINATIONS TO DISCONNECT AND ATS BY EC.
10. PROVIDE PANELBOARD TYPE SURGE PROTECTION DEVICE (SPD). SEE SPECS FOR MORE DETAILS AND VERIFY OVERCURRENT PROTECTION DEVICE SIZE WITH MANUFACTURER PRIOR TO INSTALLATION.
11. EC SHALL PROVIDE CONDUITS AS INDICATED BELOW AND 3 FOOT PAST CONCRETE PAD TO ALLOW FOR UTILITY PROVIDED CONDUCTORS. REFER TO E0.5.
12. EXISTING TO REMAIN.
13. DEMO PANEL AND FEEDERS BACK TO SOURCE.
14. INTERCEPT EXISTING SECONDARY FEEDER AND MODIFY AS INDICATED RECONNECT TO EXISTING FEEDERS CONNECTED TO MDP.
15. EXCAVATE SECONDARY FEEDERS ARE PREPARE TO MODIFY.



ELECTRICAL ONE LINE DIAGRAM - OPS/VEHICLE STORAGE - DEMO

NO SCALE



ELECTRICAL ONE LINE DIAGRAM - OPS/VEHICLE STORAGE - RENO

NO SCALE

FEEDER SCHEDULE

PLAN MARK	OVERCURRENT PROTECTION	AMPERAGE	FEEDER SIZE (COPPER, U.N.O.)
20 20N	20A 20A	20A 20A	3 #12 & 1 #12G., 3/4"C. 4 #12 & 1 #12G., 3/4"C.
30 30N	25A, 30A 25A, 30A	30A 30A	3 #10 & 1 #10G., 3/4"C. 4 #10 & 1 #10G., 3/4"C.
40 40N	35A, 40A 35A, 40A	40A 40A	3 #8 & 1 #10G., 3/4"C. 4 #8 & 1 #10G., 3/4"C.
50 50N	45A, 50A 45A, 50A	55A 55A	3 #6 & 1 #10G., 3/4"C. 4 #6 & 1 #10G., 1"C.
70 70N, 70NT	60A, 70A 60A,70A	70A 70A	3 #4 & 1 #8G., 1-1/4"C. 4 #4 & 1 #8G., 1-1/4"C.
100 100N	80A, 90A, 100A 80A, 90A, 100A	100A 100A	3 #3 & 1 #8G., 1-1/4"C. 4 #3 & 1 #8G., 1-1/4"C.
110 110N, 110NT	110A 110A	115A 115A	3 #2, 1 #6G, 1-1/4"C 4 #2, 1 #6G, 1-1/4"C
125 125N	125A 125A	130A 130A	3 #1 & 1 #6G., 1-1/2"C. 4 #1 & 1 #6G., 1-1/2"C.
150 150N	150A 150A	150A 150A	3 #1/0 & 1 #6G., 1-1/2"C. 4 #1/0 & 1 #6G., 2"C.
175 175N 175NT	175A 175A 175A	175A 175A 175A	3 #2/0 & 1 #6G., 2"C. 4 #2/0 & 1 #6G., 2"C. 4 #2/0 & 1 #4G., 2"C.
200 200N	200A 200A	200A 200A	3 #3/0 & 1 #6G., 2"C. 4 #3/0 & 1 #6G., 2-1/2"C.
225 225N 225NT	225A 225A 225A	230A 230A 230A	3 #4/0 & 1 #4G., 2"C. 4 #4/0 & 1 #4G., 2-1/2"C. 4 #4/0 & 1 #2G., 2-1/2"C.
250 250N 250NT	250A 250A 250A	255A 255A 255A	3-250 kcmil & 1 #4G., 2-1/2"C. 4-250 kcmil & 1 #4G., 3"C. 4-250 kcmil & 1 #2G., 3"C.
300 300N 300NT	300A 300A 300A	310A 310A 310A	3-350 kcmil & 1 #4G., 3"C. 4-350 kcmil & 1 #4G., 3"C. 4-350 kcmil & 1 #2G., 3"C.
350 350N	350A 350A	380A 380A	3-500 kcmil & 1 #3G., 3"C. 4-500 kcmil & 1 #3G., 3-1/2"C.
400 400N 400NT	400A 400A 400A	400A 400A 400A	TWO SETS OF [3 #3/0 & 1 #3G., 2"C] TWO SETS OF [4 #3/0 & 1 #3G., 2"C] TWO SETS OF [4 #3/0 & 1 #2G., 2"C]
420 420N 420NT	400A 400A 400A	420A 420A 420A	3-600 kcmil & 1 #3G., 4"C. 4-600 kcmil & 1 #3G., 4"C. 4-600 kcmil & 1 #1/0G., 4"C.
450 450N	450A 450A	460A 460A	TWO SETS OF [3 #4/0, 1 #2G, 2"C] TWO SETS OF [4 #4/0, 1 #2G, 2"C]
500 500N	500A 500A	510A 510A	TWO SETS OF [3-250 kcmil & 1 #2G., 2-1/2"C] TWO SETS OF [4-250 kcmil & 1 #2G., 3"C]
600 600N 600NT	600A 600A 600A	620A 620A 620A	TWO SETS OF [3-350 kcmil & 1 #1G., 3"C] TWO SETS OF [4-350 kcmil & 1 #1G., 3"C] TWO SETS OF [4-350 kcmil & 1 #2/0G., 3"C]
700 700N 700NT	700A 700A 700A	760A 760A 760A	TWO SETS OF [3-500 kcmil & 1 #1/0G., 3"C] TWO SETS OF [4-500 kcmil & 1 #1/0G., 3"C] TWO SETS OF [4-500 kcmil & 1 #2/0G., 3"C]
800 800N 800NT	800A 800A 800A	840A 840A 840A	TWO SETS OF [3-600 kcmil & 1 #1/0G., 4"C] TWO SETS OF [4-600 kcmil & 1 #1/0G., 4"C] TWO SETS OF [4-600 kcmil & 1 #3/0G., 4"C]
1000 1000N	1000A 1000A	1140A 1140A	THREE SETS OF [3-500 kcmil & 1 #2/0G., 3-1/2"C.] THREE SETS OF [4-500 kcmil & 1 #2/0G., 3-1/2"C.]
1200 1200N 1200NT	1200A 1200A 1200A	1240A 1240A 1240A	FOUR SETS OF [3-350 kcmil & 1 #3/0G, 3"C] FOUR SETS OF [4-350 kcmil & 1 #3/0G, 3"C] FOUR SETS OF [4-350 kcmil & 1 #4/0G, 3"C]
1600 1600N	1600A 1600A	1680A 1680A	FOUR SETS OF [3-600 kcmil & 1 #4/0G., 4"C] FOUR SETS OF [4-600 kcmil & 1 #4/0G., 4"C]
2000 2000N	2000A 2000A	2280A 2280A	SIX SETS OF [3-500 kcmil & 1-250 kcmil G., 3-1/2"C.] SIX SETS OF [4-500 kcmil & 1-250 kcmil G., 4"C.]
2500 2500N	2500A 2500A	2660A 2660A	SEVEN SETS OF [3-500 kcmil & 1-350 kcmil G., 4"C] SEVEN SETS OF [4-500 kcmil & 1-350 kcmil G., 4"C]
3000 3000N	3000A 3000A	3040A 3040A	EIGHT SETS OF [3-500 kcmil & 1-400 kcmil G., 4"C] EIGHT SETS OF [4-500 kcmil & 1-400 kcmil G., 4"C]
4000 4000N	4000A 4000A	4180A 4180A	TEN SETS OF [3-600 kcmil & 1-500 kcmil G., 4"C] TEN SETS OF [4-600 kcmil & 1-500 kcmil G., 4"C]

FEEDER SCHEDULE NOTES:
1. AN 'S' FOLLOWING A FEEDER SIZE INDICATES A SERVICE FEEDER; GROUND CONDUCTORS MAY BE OMITTED FROM THESE SERVICE FEEDERS.
2. ALL FIRE PUMP FEEDERS FROM A SERVICE TRANSFORMER SHALL BE PROVIDED WITH A NEUTRAL.

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Drawn By:	KWS
Checked By:	JAH

Drawing Title:
ELECTRICAL ONE-LINE DIAGRAM - OPS / VEHICAL STORAGE

E0.2

SSC JOB# 2025456_NOT FOR CONSTRUCTION

FEEDER SCHEDULE

PLAN MARK	OVERCURRENT PROTECTION	AMPERAGE	FEEDER SIZE (COPPER, U.N.O.)
20 20N	20A 20A	20A 20A	3 #12 & 1 #12G., 3/4"C. 4 #12 & 1 #12G, 3/4"C.
30 30N	25A, 30A 25A, 30A	30A 30A	3 #10 & 1 #10G., 3/4"C. 4 #10 & 1 #10G., 3/4"C.
40 40N	35A, 40A 35A, 40A	40A 40A	3 #8 & 1 #10G., 3/4"C. 4 #8 & 1 #10G., 3/4"C.
50 50N	45A, 50A 45A, 50A	55A 55A	3 #6 & 1 #10G., 3/4"C. 4 #6 & 1 #10G., 1"C.
70 70N, 70NT	60A, 70A 60A,70A	70A 70A	3 #4 & 1 #8G., 1-1/4"C. 4 #4 & 1 #8G., 1-1/4"C.
100 100N	80A, 90A, 100A 80A, 90A, 100A	100A 100A	3 #3 & 1 #8G., 1-1/4"C. 4 #3 & 1 #8G., 1-1/4"C.
110 110N, 110NT	110A 110A	115A 115A	3 #2, 1 #6G, 1-1/4"C 4 #2, 1 #6G, 1-1/4"C
125 125N	125A 125A	130A 130A	3 #1 & 1 #6G., 1-1/2"C. 4 #1 & 1 #6G., 1-1/2"C.
150 150N	150A 150A	150A 150A	3 #1/0 & 1 #6G., 1-1/2"C. 4 #1/0 & 1 #6G., 2"C.
175 175N 175NT	175A 175A 175A	175A 175A 175A	3 #2/0 & 1 #6G., 2"C. 4 #2/0 & 1 #6G., 2"C. 4 #2/0 & 1 #4G., 2"C.
200 200N	200A 200A	200A 200A	3 #3/0 & 1 #6G., 2"C. 4 #3/0 & 1 #6G., 2-1/2"C.
225 225N 225NT	225A 225A 225A	230A 230A 230A	3 #4/0 & 1 #4G., 2"C. 4 #4/0 & 1 #4G., 2-1/2"C. 4 #4/0 & 1 #2G., 2-1/2"C.
250 250N 250NT	250A 250A 250A	255A 255A 255A	3-250 kcmil & 1 #4G., 2-1/2"C. 4-250 kcmil & 1 #4G., 3"C. 4-250 kcmil & 1 #2G., 3"C.
300 300N 300NT	300A 300A 300A	310A 310A 310A	3-350 kcmil & 1 #4G., 3"C. 4-350 kcmil & 1 #4G., 3"C. 4-350 kcmil & 1 #2G., 3"C.
350 350N	350A 350A	380A 380A	3-500 kcmil & 1 #3G., 3"C. 4-500 kcmil & 1 #3G., 3-1/2"C.
400 400N 400NT	400A 400A 400A	400A 400A 400A	TWO SETS OF [3 #3/0 & 1 #3G., 2"C] TWO SETS OF [4 #3/0 & 1 #3G., 2"C] TWO SETS OF [4 #3/0 & 1 #2G., 2"C]
420 420N 420NT	400A 400A 400A	420A 420A 420A	3-600 kcmil & 1 #3G., 4"C. 4-600 kcmil & 1 #3G., 4"C. 4-600 kcmil & 1 #1/0G., 4"C.
450 450N	450A 450A	460A 460A	TWO SETS OF [3 #4/0, 1 #2G, 2"C] TWO SETS OF [4 #4/0, 1 #2G, 2"C]
500 500N	500A 500A	510A 510A	TWO SETS OF [3-250 kcmil & 1 #2G., 2-1/2"C] TWO SETS OF [4-250 kcmil & 1 #2G., 3"C]
600 600N 600NT	600A 600A 600A	620A 620A 620A	TWO SETS OF [3-350 kcmil & 1 #1G., 3"C] TWO SETS OF [4-350 kcmil & 1 #1G., 3"C] TWO SETS OF [4-350 kcmil & 1 #2/0G., 3"C]
700 700N 700NT	700A 700A 700A	760A 760A 760A	TWO SETS OF [3-500 kcmil & 1 #1/0G., 3"C] TWO SETS OF [4-500 kcmil & 1 #1/0G., 3"C] TWO SETS OF [4-500 kcmil & 1 #2/0G., 3"C]
800 800N 800NT	800A 800A 800A	840A 840A 840A	TWO SETS OF [3-600 kcmil & 1 #1/0G., 4"C] TWO SETS OF [4-600 kcmil & 1 #1/0G., 4"C] TWO SETS OF [4-600 kcmil & 1 #3/0G., 4"C]
1000 1000N	1000A 1000A	1140A 1140A	THREE SETS OF [3-500 kcmil & 1 #2/0G., 3-1/2"C.] THREE SETS OF [4-500 kcmil & 1 #2/0G., 3-1/2"C.]
1200 1200N 1200NT	1200A 1200A 1200A	1240A 1240A 1240A	FOUR SETS OF [3-350 kcmil & 1 #3/0G, 3"C] FOUR SETS OF [4-350 kcmil & 1 #3/0G, 3"C] FOUR SETS OF [4-350 kcmil & 1 #4/0G, 3"C]
1600 1600N	1600A 1600A	1680A 1680A	FOUR SETS OF [3-600 kcmil & 1 #4/0G., 4"C] FOUR SETS OF [4-600 kcmil & 1 #4/0G., 4"C]
2000 2000N	2000A 2000A	2280A 2280A	SIX SETS OF [3-500 kcmil & 1-250 kcmil G., 3-1/2"C.] SIX SETS OF [4-500 kcmil & 1-250 kcmil G., 4"C.]
2500 2500N	2500A 2500A	2660A 2660A	SEVEN SETS OF [3-500 kcmil & 1-350 kcmil G., 4"C] SEVEN SETS OF [4-500 kcmil & 1-350 kcmil G., 4"C]
3000 3000N	3000A 3000A	3040A 3040A	EIGHT SETS OF [3-500 kcmil & 1-400 kcmil G., 4"C] EIGHT SETS OF [4-500 kcmil & 1-400 kcmil G., 4"C]
4000 4000N	4000A 4000A	4180A 4180A	TEN SETS OF [3-600 kcmil & 1-500 kcmil G., 4"C] TEN SETS OF [4-600 kcmil & 1-500 kcmil G., 4"C]

FEEDER SCHEDULE NOTES:
1. AN 'S' FOLLOWING A FEEDER SIZE INDICATES A SERVICE FEEDER; GROUND CONDUCTORS MAY BE OMITTED FROM THESE SERVICE FEEDERS.
2. ALL FIRE PUMP FEEDERS FROM A SERVICE TRANSFORMER SHALL BE PROVIDED WITH A NEUTRAL.

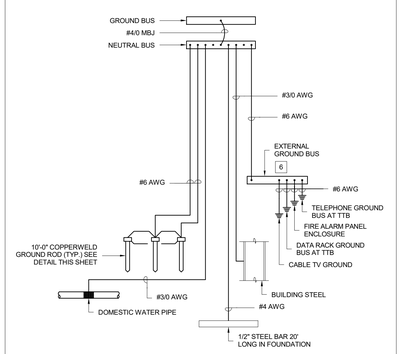
ELECTRICAL SERVICE RESPONSIBILITY SCHEDULE		
DESCRIPTION	FURNISHED BY	INSTALLED BY
PRIMARY CONDUIT	UTIL	UTIL
PRIMARY CONDUCTORS & TERMINATIONS	UTIL	UTIL
UTILITY TRANSFORMER CONCRETE PAD - NOTE 1	EC	EC
UTILITY TRANSFORMER	UTIL	UTIL
ALL SERVICE TRANSFORMER GROUND RODS NOTE 1	UTIL	UTIL
CT'S/PT'S IN TRANSFORMER - NOTE 4	UTIL	UTIL
SECONDARY CONDUIT (FROM X-FMR TO ATS/DISC) NOTE 2 & 5	EC	EC
SECONDARY CONDUCTOR (FROM X-FMR TO ATS/DISC) NOTE 1	EC	EC
SECONDARY CONDUCTOR TERMINATION @ ATS/DISC	EC	EC
SECONDARY CONDUCTOR TERMINATION @ TRANSFORMER	UTIL	UTIL
SECONDARY CONDUCTOR LUGS (AT TRANSFORMER)	UTIL	UTIL
SECONDARY CONDUCTOR LUGS (AT ATS/DISC)	EC	EC
METER - NOTE 3	UTIL	UTIL
METER SOCKET/WIRING/INSTALLATION ON TRANSFORMER	UTIL	UTIL

EC - ELECTRICAL CONTRACTOR
GC - GENERAL CONTRACTOR
UTIL - UTILITY CO.

UTILITY CO. - TAYLOR COUNTY ELECTRICAL COOPERATIVE
XXXX XXXX
EMAIL: XXXXX

ELECTRICAL SERVICE RESPONSIBILITY SCHEDULE NOTES:

1. THE ELC SHALL INSTALL THE ELECTRICAL SERVICE IN CONFORMANCE WITH ALL GOVERNING RULES AND REGULATIONS - CITY, LOCAL UTILITY CO. ETC. THE ELC SHALL CONFORM WITH THE UTILITY CO.'S SERVICE REQUIREMENTS. REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO TRANSFORMER PAD LOCATION, SERVICE TRANSFORMER GROUNDS, REQUIRED INSPECTIONS, SECONDARY CONDUCTOR LENGTH LEFT AT SERVICE TRANSFORMER, CLEARANCES, ETC.
2. SECONDARY CONDUITS SHALL BE PER THE ONE LINE DIAGRAM.
3. UTILITY COMPANY WILL FURNISH THE METER, METER CONDUCTORS AND MAKE ALL TERMINATIONS. COORDINATE EXACT REQUIREMENTS WITH THE UTILITY COMPANY. PROVIDE GROUNDING CONDUCTOR PER UTILITY REQUIREMENTS.
4. UTILITY COMPANY WILL PROVIDE THE CTS/PTS.
5. INSTALL PULL ROPE IN SECONDARY CONDUIT(S).
6. EC TO PROVIDE PRIMARY CONDUITS BELOW AND 3' PAST XFMR PAD.



SERVICE ENTRANCE GROUNDING DETAIL
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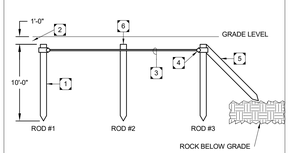
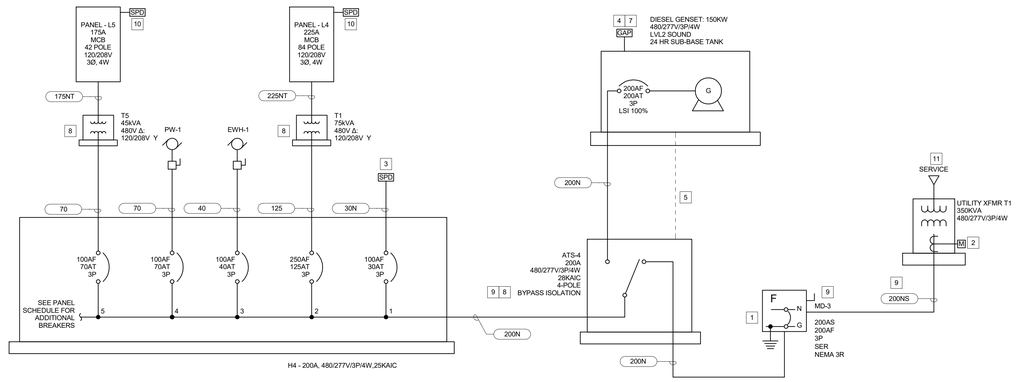


KEYED NOTES:

1. 3/4" x 10' COPPER CLAD STEEL GROUND ROD.
2. 1" COVER MINIMUM TO TOP OF ROD.
3. #6 BARE COPPER CONDUCTOR TYPICAL FOR THREE ROD SYSTEM.
4. EXOTHERMIC WELDED ELECTRODE CONNECTION - TYPICAL.
5. IF ROCK IS ENCOUNTERED, GROUND RODS SHALL BE PERMITTED TO BE DRIVEN AT AN OPPOSING 45° ANGLE FROM EACH OTHER.
6. NOTE 10' MINIMUM HORIZONTAL SPACING BETWEEN GROUND RODS IN A TRIANGULAR CONFIGURATION.

THREE GROUND ROD ELECTRODE DETAIL
NO SCALE



ELECTRICAL ONE LINE DIAGRAM - MAINT/WASHBAY
NO SCALE

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
3. OVERSIZED FEEDERS HAVE BEEN SIZED TO LIMIT VOLTAGE DROP. PROVIDE PROPER LUGS OR PIGTAIL ADAPTERS. FUSES FOR SPECIFIC MECHANICAL EQUIPMENT HAVE BEEN PROVIDED TO LIMIT AVAILABLE FAULT CURRENT AT THE EQUIPMENT.
4. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.

KEYED NOTES:

1. PROVIDE SERVICE ENTRANCE GROUNDING PER DETAILS ON THIS SHEET. PROVIDE ALL GROUNDING PER NEC 250.50.
2. METER AND METERING CONDUCTORS WILL BE PROVIDED BY UTILITY. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY FOR LOCATION AND GROUNDING.
3. PROVIDE SERVICE ENTRANCE TYPE SURGE PROTECTION DEVICE (SPD). SEE SPECIFICATIONS FOR DETAILS AND VERIFY OVER-CURRENT PROTECTION DEVICE SIZE WITH THE MANUFACTURER PRIOR TO INSTALLATION.
4. PROVIDE GENERATOR IN WEATHERPROOF SOUND ATTENUATED HOUSING. SEE SPECIFICATIONS FOR DETAILS. PROVIDE WITH GENERATOR ANNUNCIATOR PANEL. REFER TO E2.X SERIES SHEETS FOR LOCATIONS. PROVIDE CONCRETE PAD PER DETAIL X/E0.X.
5. PROVIDE LOW-VOLTAGE CONDUCTORS FROM THE AUTOMATIC TRANSFER SWITCH TO THE GENERATOR FOR GENERATOR-START ON POWER FAILURE.
6. PROVIDE ISOLATED GROUND BUS TO BE MOUNTED EXTERNAL TO ENCLOSURE AT THE SERVICE EQUIPMENT, PER NEC 250-94.
7. PROVIDE 208V, 1Ø, 40A LOAD CENTER FOR GENERATOR BATTERY CHARGER, HEATER, ETC., INSIDE THE GENERATOR ENCLOSURE.
8. PROVIDE 4" HIGH HOUSEKEEPING PAD BELOW EQUIPMENT. PAD SHALL BE 1" LARGER IN EACH DIRECTION THAN EQUIPMENT TO BE SET.
9. EC PROVIDED FUSED DISCONNECT SWITCH, ATS, SECONDARY SERVICE CONDUCTORS, CONDUIT, AND TERMINATIONS TO DISCONNECT AND ATS BY EC.
10. PROVIDE PANELBOARD TYPE SURGE PROTECTION DEVICE (SPD). SEE SPECS FOR MORE DETAILS AND VERIFY OVERCURRENT PROTECTION DEVICE SIZE WITH MANUFACTURER PRIOR TO INSTALLATION.
11. EC SHALL PROVIDE CONDUITS AS INDICATED BELOW AND 3 FOOT PAST CONCRETE PAD TO ALLOW FOR UTILITY PROVIDED CONDUCTORS. REFER TO E0.5.

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Checked By:	JAH

Drawing Title:
ELECTRICAL ONE-LINE DIAGRAM - MAINT / WASHBAY

E0.3

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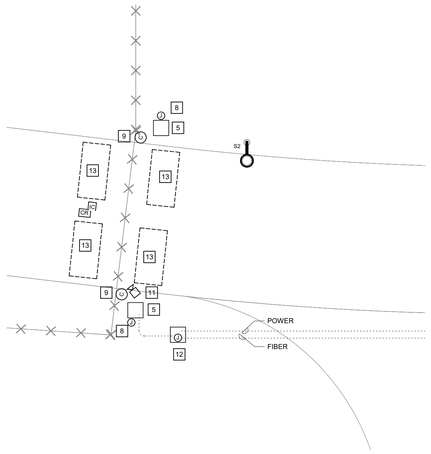
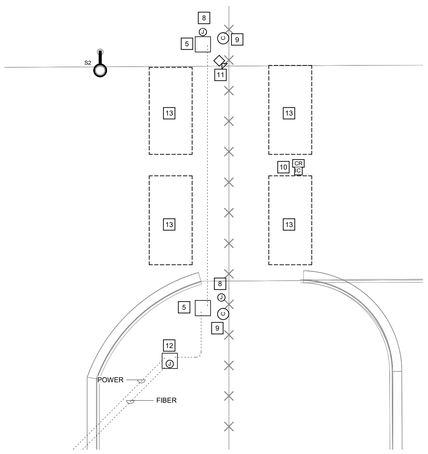




2 EAST GATE ENLARGED PLAN
SCALE: 1" = 10'-0"
NORTH

1 WEST GATE ENLARGED PLAN
SCALE: 1" = 10'-0"
NORTH

ELECTRICAL KEYED NOTES CONT:

8 PROVIDE (1) 2" AND (2) 1-1/4" SCHEDULE 40 PVC CONDUIT BELOW GRADE TO GATE OPERATOR FOR MONITORING AND CONTROL OF GATE. HOMERUN CONDUIT TO IDF CLOSET. IF MULTIPLE GATES, INTERCONNECT SO ONE IS MASTER AND OTHER IS SATELLITE.

9 PROVIDE GATE CONTACT FOR ACCESS-CONTROL AS SHOWN. PROVIDE CABLES TO CONTROL ENCLOSURE NEAR GATES.

10 PROVIDE INTERCOM AND CARD READER FOR ACCESS-CONTROL AS SHOWN. PROVIDE CABLES BACK TO HARDENED SWITCH IN CONTROL ENCLOSURE. PROVIDE (2) DEVICES AT UPPER AND LOWER PEDESTAL CONNECTIONS. PROVIDE DUAL HEIGHT (72" AND 42"), SINGLE POST, PAD-MOUNTED PEDESTAL WITH WEATHER HOOD EQUIVALENT TO PEDESTAL CEO #72-9C-DSP WITH LANDO-KY-20X14-E-BLK AND CS-ABP-1212.REFER TO DETAIL ON E0.11. INTERCOM SHALL DIRECT DIAL TO OPERATIONS WAREHOUSE AND ROLL OVER TO ANOTHER OFFICE TO BE SELECTED BY TCRECC.

11 PROVIDE CAMERA ON SITE LIGHTING POLE ADJACENT TO CARD READER. MOUNT (1) CAMERA AT 5' AFF AND (1) AT 12' AFF. PROVIDE CAT 6 CABLE TO HARDENED SWITCH IN CONTROL ENCLOSURE.

12 PROVIDE A HINGED DOOR, NEMA 4XSS CONTROL ENCLOSURE NEAR THE VEHICLE GATES ON A UNISTRUT FRAME WITH 120 VOLT POWER. THE ENCLOSURE SHALL HOUSE AN INDUSTRIAL RATED IP PoE SWITCH, POWER SUPPLY, DIN RAIL, FIBER PATCH PANEL, SURGE PROTECTION DEVICE AND ALL REQUIRED CONNECTIONS FOR INDIVIDUAL CAMERAS, ACCESS CONTROL AND IP DEVICES IN THE AREA. PROVIDE 6-STRAND OPTICAL FIBER AND PULL STRING IN 1-1/4" PVC SCHEDULE 40 CONDUIT TO SERVER ROOM RACK.

13 PROVIDE 1", SCHEDULE 40 PVC CONDUIT FOR INGROUND SENSORS PRESSURE PLATE FOR GATE OPERATOR. CONDUIT SHALL BE FOR CONDUCTORS UP TO FEEDER SLOT. EC SHALL VERIFY ADDITIONAL REQUIREMENTS WITH OWNER AND MANUFACTURER PRIOR TO ROUGH-IN.

14 PROVIDE (4) 4" CONDUITS WITH PULL TAPE FROM SERVER ROOM TO COMMUNICATION TOWER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

2. EC SHALL FIELD VERIFY EXISTING POLES, MANHOLES, SPARE CONDUIT, RIGHTS-OF-WAY, UTILITIES, AND BUILDING LOCATIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

3. PROVIDE 1800# MULETAPE IN ALL NEW CONDUITS, INNERDUCTS AND IN ALL CONDUITS FOR NEW CABLE RUNS.

4. EC SHALL COORDINATE EXACT LOCATIONS, REQUIREMENTS, METERING AND TERMINATIONS WITH UTILITY PROVIDERS PRIOR TO BID.

5. COORDINATE ALL UNDERGROUND ELECTRICAL WORK AND UTILITY TIE-INS WITH UTILITY PROVIDERS AND WORK OF OTHER TRADES.

6. UNDERGROUND FACILITY STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDED INFORMATION. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND FACILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

7. ALL IN-GROUND CONDUITS SHALL BE 1" MINIMUM, SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.

8. ELECTRICAL CONTRACTOR SHALL PROTECT AND EXTEND EXISTING SERVICES TO EXISTING BUILDINGS TO MAINTAIN CONTINUITY OF SERVICE. REROUTE EXISTING SERVICES AS REQUIRED TO AVOID CONSTRUCTION AND WORK OF OTHER TRADES.

9. ALL UNDERGROUND AND EXTERIOR CONDUCTORS SHALL BE TYPE "XHHW-2".

10. ALL SITE LIGHTING SHALL HAVE #10 WIRE U.N.O.

ELECTRICAL KEYED NOTES:

1 PROVIDE CONCRETE PAD FOR TRANSFORMER AND/OR GENSET, REFER TO DETAILS ON E0.X AND ON SHEET E0.X.

2 NEW PRIMARY ELECTRIC TRENCH BY EC. EC SHALL VERIFY ALL REQUIREMENTS WITH UTILITY PRIOR TO ANY WORK. REFER TO ONE-LINE AND 1/E0.X FOR ADDITIONAL RESPONSIBILITY INFORMATION.

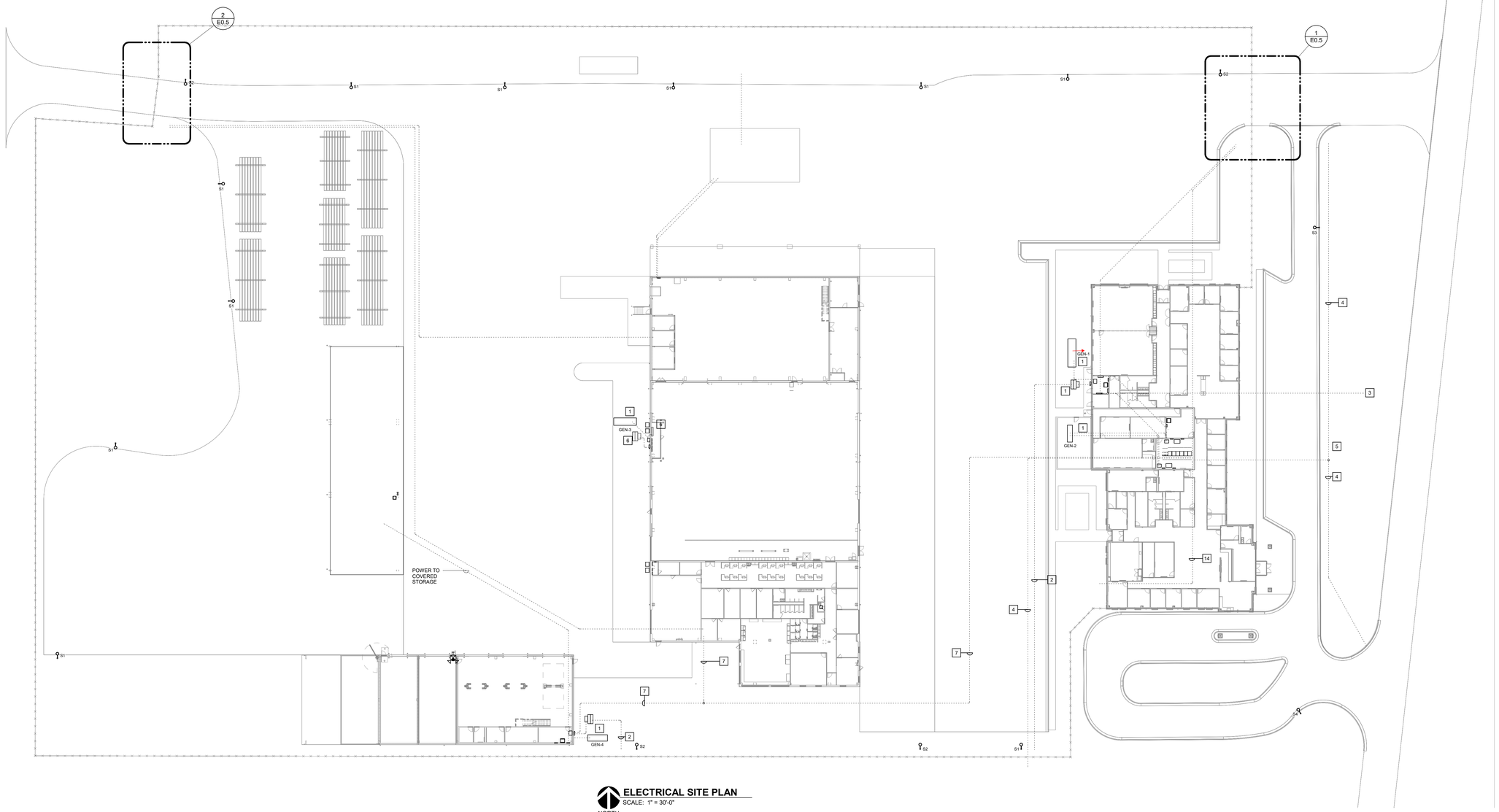
3 PROVIDE (1) 1" CONDUIT WITH PULL STRING FROM ELECTRIC 135 TO YARD FOR MONUMENT SIGN. COORDINATE EXACT LOCATION OF CONDUIT STUB-UP WITH APPLICABLE TRADES.

4 PROVIDE TWO (2) SEPARATE INCOMING LOW VOLTAGE SERVICES CONSISTING OF TWO (2) 4" SCHEDULE 40 PVC CONDUIT FROM THE SERVER ROOM TO THE BUILDING EXTERIOR BEYOND THE PARKING LOT TOWARDS THE PROPERTY LINE FOR PHONE / ISP AND FIBER OPTIC UTILITY SERVICE. EC SHALL VERIFY ALL REQUIREMENTS WITH THE UTILITY COMPANY AND COORDINATE ALL OTHER REQUIREMENTS WITH APPLICABLE TRADES PRIOR TO ROUGH-IN. REFER TO 4/E0.X.

5 QUAZITE BOX (24"x24") TO BE INSTALLED BY E.C. COORDINATE WITH APPLICABLE TRADES. BOX SHALL BE EQUIVALENT TO QUAZITE #PG2424BA24 WITH COVER PG2424HH0021. INSTALL PER DETAIL X/E0.X.

6 EXISTING TO REMAIN.

7 PROVIDE NEW FIBER OPTIC CABLE BACKBONE INDICATED. REFER TO DETAIL X/E0.X FOR ADDITIONAL INFO. COORDINATE EXACT ROUTING W/ EXISTING SITE CONDUCTORS ARE APPLICABLE TRADES.



ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"
NORTH

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ELECTRICAL SITE PLAN

E0.5

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LIGHTING FIXTURE SCHEDULE

Type Mark	Manufacturer	Catalog No.	Voltage	Mounting	Lamp	Fixture Finish	Remarks (Type)	Description
	METALUX	22CZ2-39-S-UNV-[EL14W]-L835-CD1-U-CZ2-EQCLIP-U-PK-[DF-22-W]	120-277V	RECESSED CLG	31W, LED, 3500K	WHITE		2'X2' GRID LAY-IN DIRECT/INDIRECT LED FIXTURE WITH SMOOTH CURVED LENS; 0-10V DIMMING TO 1%; 3900 DELIVERED LUMENS; [HIGH OUTPUT EMERGENCY BATTERY PACK]; [DRYWALL FLANGE ACCESSORY].
A	METALUX	VHB-18-W-UNV-L835-CD-U-HBAYC-CHAIN/SET/U	120-277V	CHAIN V-HANG	134W, LED, 3500K	WHITE	HIGHBAY	15"X19" HIGH-BAY INDUSTRIAL SUPPORT AT 4 POINTS WITH 2 CHAINS WITH V-HANGER DAMP LABEL, -20 DEGREE F STD. MOUNT 18" BELOW STRUCTURE, U.N.O. 18,358 LUMENS.
A1	LUX DYNAMICS	E-4-D-A-840-2-U10-CP-B-SMH-GAR	120-277V	SURFACE	115W, LED, 3500K	WHITE	HIGHBAY	24"X21" HIGH-BAY LED SURFACE MOUNTED, DAMP LABEL, -40 DEGREE F STD. 25,214 LUMENS.
C	METALUX	24CZ2-75VHE-S-UNV-L835-CD1-U	120-277V	RECESSED CLG	50W, LED, 3500K	WHITE	GENERAL LTG	2'X4' GRID LAY-IN DIRECT/INDIRECT LED FIXTURE WITH SMOOTH CURVED LENS; 0-10V DIMMING TO 1%; 7600 DELIVERED LUMENS; [HIGH OUTPUT EMERGENCY BATTERY PACK]; [DRYWALL FLANGE ACCESSORY].
C1	METALUX	22CZ2-75-UNV-L835-CD1-U	120-277V	RECESSED CLG	55W, LED, 3500K	WHITE	GENERAL LTG	2'X2' GRID LAY-IN DIRECT/INDIRECT LED FIXTURE WITH SMOOTH CURVED LENS; 0-10V DIMMING TO 1%; 7500 DELIVERED LUMENS.
D	HALO	HC620D010-HM60525835-61MDH	120-277V	RECESSED CLG	17W, LED, 3500K	WHITE	GENERAL LTG	6" OPEN LED DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE TRIM; 2000 LUMENS; DIMMING TO 1%
D1	HALO	HC425D010-HM60525835-41RWWC	120-277V	RECESSED CLG	17W, LED, 4000K	WHITE	GENERAL LTG	6" OPEN LED DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE TRIM; 2000 LUMENS; DIMMING TO 1%
DE	HALO	HC625D010EM14-HM60525835-61RWWC	120-277V	RECESSED CLG	17W, LED, 3500K	WHITE	GENERAL LTG	6" OPEN LED DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND WHITE TRIM; 2000 LUMENS; DIMMING TO 1% EMERGENCY BATTERY PACK
H	METALUX	4WNS3C3-UNV-HIGH-4000K	120/277V	WALL	39W, LED, 3500K	WHITE	CANOPY	1'X4' WATER TIGHT SURFACE MOUNTED LED FIXTURE WITH SMOOTH CURVED LENS 5200 DELIVERED LUMENS REAL
H1	METALUX	4VT3-LD5-6-G-UNV-L840-CD1-U	120-277V	SURFACE	52W, LED, 4000K	WHITE	CANOPY	2' WATER TIGHT SURFACE MOUNTED FIXTURE WITH SMOOTH CURVED LENS 4000K LUMENS
L8	CORELITE	SQ4-F-0U-075D-835-1D-UNV-STD-W-AC48-T1-8	120/277V	SUSPENDED	48W, LED, 3500K	BLACK	GENERAL LTG	8' SUSPENDED LINEAR LED FIXTURE; UP AND DOWNLIGHT; 0-10V DIMMING TO 1%; SUSPENDED WITH AIRCRAFT CABLE, COORDINATE WITH ARCH FOR MOUNTING HEIGHT; 8000 NOMINAL LUMENS.
L12	CORELITE	SQ4-F-0U-075D-835-1D-UNV-STD-W-AC48-T1-12	120/277V	SUSPENDED	72W, LED, 3500K	BLACK	GENERAL LTG	12' SUSPENDED LINEAR LED FIXTURE; UP AND DOWNLIGHT; 0-10V DIMMING TO 1%; SUSPENDED WITH AIRCRAFT CABLE, COORDINATE WITH ARCH FOR MOUNTING HEIGHT; 12,000 NOMINAL LUMENS
N5	LUMENWERX	VIA2R-D-HLO-FH-SW-80CRI-350LMF-35K-4FT-277V-D1-1C-TB15-B	120/277V	RECESSED CLG	28W, LED, 3500K	WHITE	GENERAL LTG	4" WIDE LINEAR RECESSED LED FIXTURE
R1	LUMARK	GWC-SA2C-740-U-T4FT	120/277V	WALL	47W, LED, 4000K	BLACK	WALL PACK	EXTERIOR WALL PACK WITH TYPE III DISTRIBUTION; APPROX. 5,400 LUMENS; MOUNT XX' AFF U.N.O.
R2	LUMARK	GWC-SA1C-740-U-T4FT	120/277V	WALL	47W, LED, 4000K	BLACK	WALL PACK	EXTERIOR WALL PACK WITH TYPE III DISTRIBUTION; APPROX. 5,400 LUMENS; MOUNT XX' AFF U.N.O.
RE	LUMARK	XTOR6B-W-BK-CBP-MS/DIM-L20	120/277V	WALL	58W, LED, 4000K	BLACK	WALL PACK	EXTERIOR WALL PACK WITH TYPE III DISTRIBUTION; APPROX. 5,400 LUMENS; MOUNT 8' AFF U.N.O.
S1	MCGRAW EDISON	GALN-SA4C-740-U-SWQ POLE: SSS-22-4-11-AB-GV-BT-VDF	120-277V	POLE	213W, LED	BLACK	SITE	POLE LIGHT WITH SINGLE HEAD AND TYPE 5 DISTRIBUTION; APPROX. 29,000 LUMENS; PROVIDE 22' POLE AND BASE PER DETAIL
S2	MCGRAW EDISON	GALN-SA4C-740-U-SWQ-TWIN POLE: SSS-22-4-11-AB-GV-BT-VDF	120-277V	POLE	213W, LED	BLACK	SITE	POLE LIGHT WITH DUAL HEAD AND TYPE 5 DISTRIBUTION; APPROX. 58,000 LUMENS TOTAL; PROVIDE 22' POLE AND BASE PER DETAIL
S3	MCGRAW EDISON	GALN-SA2C-740-U-T3 POLE: SSS-22-4-11-AB-GV-BT-VDF	120-277V	POLE	108W, LED	BLACK	SITE	POLE LIGHT WITH SINGLE HEAD AND TYPE 3 DISTRIBUTION; APPROX. 27,000 LUMENS; PROVIDE 22' POLE AND BASE PER DETAIL.
S4	MCGRAW EDISON	GALN-SA6C-740-U-T4FT-HSS POLE: SSS-22-4-11-AB-GV-BT-VDF	120-277V	POLE	321W, LED	BLACK	SITE	POLE LIGHT WITH SINGLE HEAD AND TYPE 4 DISTRIBUTION; APPROX. 27,500 LUMENS; PROVIDE 22' POLE AND BASE PER DETAIL.
U	METALUX	4SNLED-LD5-44SL-LW-UNV-L835	120-277V	SURFACE	48W, LED, 3500K	WHITE	GENERAL LTG	4' UTILITY STRIP LED WITH 4,400 DELIVERED LUMENS
X	SURE-LITES	EUX7RSD	120-277V	UNIVERSAL	3W, LED	WHITE	EXIT SIGN (ARCH)	EDGE-LIT ARCHITECTURAL EXIT SIGN WITH BRUSHED ALUMINUM FINISH, UNIVERSAL MOUNT, FACES, ARROWS AND MOUNTING PER PLANS; WITH EMERGENCY BATTERY PACK. *VERIFY MOUNTING WITH FIELD CONDITIONS.
X1	SURE-LITES	LPXC2SSD	120-277V	UNIVERSAL	3W, LED	WHITE	COMBO EXIT SIGN	EXIT/EMERGENCY LIGHT UNIT MTD ABOVE DOOR, WITH BATTERY - INSTALL FIXTURE AT 9'-0" AFF. UNIVERSAL MTD WITH BATTERY.
X2	MULE LIGHTING	WLPCL-C-12-42-R-1-W-MR16 LED-SD	120-277V	UNIVERSAL	5W, LED	WHITE	COMBO EXIT SIGN	EMERGENCY EXIT LIGHTING WITH SURFACE MOUNT LED LAMPS AND SELF DIAGNOSTICS; WET LABEL.
Y	SURE-LITES	SELS0SD	120-277V	UNIVERSAL	2W, LED	WHITE	EMERGENCY LTG	EXIT/EMERGENCY LIGHT UNIT MTD ABOVE DOOR.
Y1	SURE-LITES	SELDW60WHSD	120-277V	UNIVERSAL	5W, LED	WHITE	EMERGENCY LTG	LED EXIT/EMERGENCY LIGHT WITH SELF DIAGNOSITCS; WET LOCATION RATED.
Z	ELECTRIC MIRROR	SER4-20.0/X48.00-LSERD-30K	120-277V	WALL	21W, LED, 3500K	WHITE	VANITY	4' VANITY FIXTURE, UP AND DOWNLIGHT, 4200 DELIVERED LUMENS [WITH HIGH OUTPUT EMERGENCY BATTERY BALLAST]

M+H ARCHITECTS

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ELECTRICAL LIGHT FIXTURE SCHEDULE

E0.6

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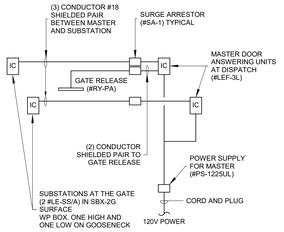
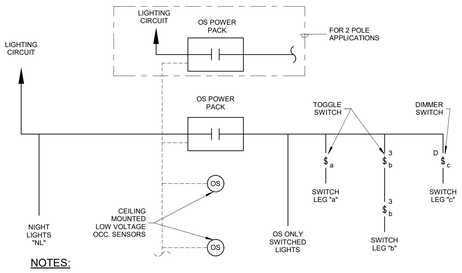


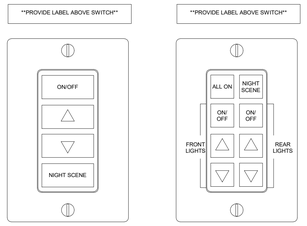
NOTES:
1. ALL PRODUCT MODEL NUMBERS ARE BY AIPHONE. EQUIVALENT SYSTEM FROM OTHER MANUFACTURERS SHALL BE ACCEPTABLE.
2. CONTRACTOR SHALL COORDINATE WITH DOOR SUPPLIER PRIOR TO ROUGH-IN.

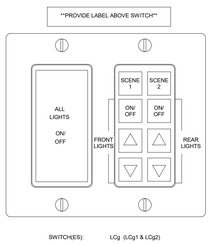
9 GATE INTERCOM SYSTEM
NOT TO SCALE



NOTES:
1. REFER TO PLAN FOR CIRCUIT NUMBERS, SWITCH TYPES AND SWITCH IDENTIFICATION.
2. COORDINATE WITH MANUFACTURER SPECIFICATIONS.

25 OCCUPANCY SENSOR SWITCHING DETAIL
NOT TO SCALE





14 DIGITAL LIGHT SWITCH DETAIL
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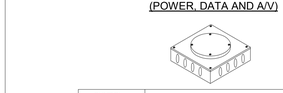
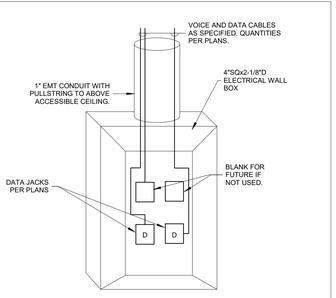


SYMBOL:	
MANUFACTURER:	LEGRAND
CATALOG #:	RFBAXC300G
FLUSH COVER AND PLATES:	-2 & 4 GANG: 6CTC2XX -6 & 10 GANG: 8CTC2XX -MODULAR FURNITURE: 6CFFTCXX

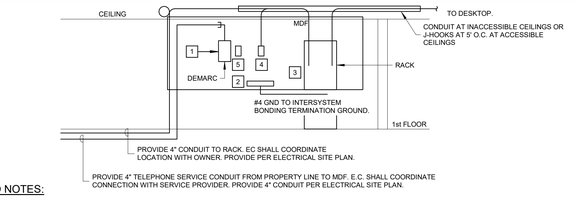
NOTES:
- COORDINATE FLUSH MOUNT APPLICATIONS AND COVERS WITH ACTUAL FLOORING SURFACE.
- COORDINATE FINISH WITH ARCHITECTURAL PLANS.
- PROVIDE ALL REQUIRED SUB-PLATES AND ACCESSORIES FOR INTENDED APPLICATIONS.

COORDINATE WITH APPLICABLE TRADES.

10 CAST IN PLACE FLOOR BOXES
NOT TO SCALE

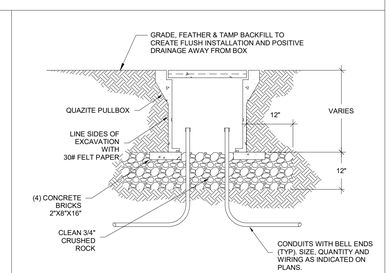


5 STANDARD DATA COMMUNICATION OUTLET
NOT TO SCALE

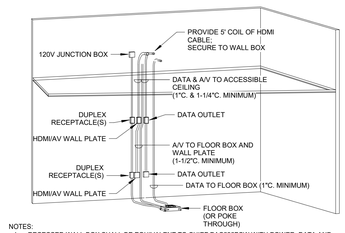


KEYED NOTES:
1. TELEPHONE SERVICE CONDUITS, FEEDER AND DEMARC SHALL BE NEW. EC SHALL COORDINATE TELEPHONE SERVICE DEMARC WITHIN TELEPHONE ROOM WITH UTILITY. UTILITY TO PROVIDE PET AND TERMINATE SERVICE CABLE. PROVIDE #4 AWG GROUND TO TMGB.
2. PROVIDE 3/4" X 4' X 8' FIRE TREATED PLYWOOD BACKBOARD WITH TMGB AND #4 AWG GROUND TO INTERSYSTEM BONDING TERMINATION GROUND BUS.
3. HORIZONTAL CABLE SHALL BE ROUTED OVERHEAD FROM MDF AND LABEL EACH END. SUPPORT ALL CABLE FROM STRUCTURE ABOVE WITH J-HOOKS OR CONDUIT.
4. PROVIDE ISOLATED PUNCH BLOCK IN MDF ROOM BY EC FOR VOICE CROSS CONNECTS AND DIRECT RUN ANALOG TELEPHONE CABLES FOR SECURITY PANEL, F.A. PANEL, DDC PANEL, ANALOG VOICE AND DSL LINES.
5. PROVIDE 110 TERMINAL BLOCKS FOR 100 PAIR SERVICE ENTRANCE CABLE CROSS CONNECT TO RACKS.

29 VOICE AND DATA RISER
NOT TO SCALE

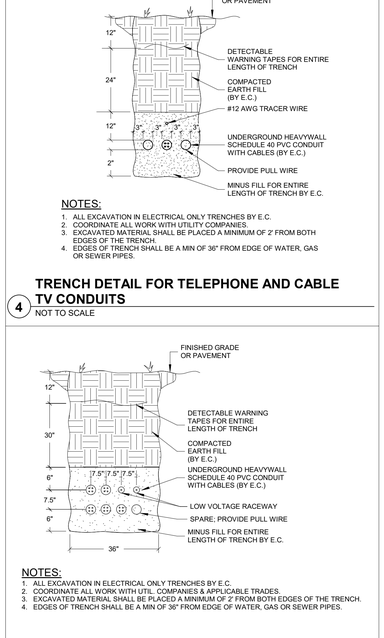


19 UNDERGROUND PULLBOX
NOT TO SCALE



NOTES:
1. RECESSED WALL BOX SHALL BE EQUIVALENT TO CHIEF PAC525FCW WITH POWER, DATA AND A/V CONNECTIONS AS INDICATED. WALL BOX SHALL BE PROVIDED WITH MATCHING COVER AND BREAK AWAY EDGES FOR USE IN SHALLOW STUD WALLS WHERE NECESSARY.
2. COORDINATE EXACT ELEVATION WITH TV/DISPLAY INSTALLER AND ACTUAL MOUNT.

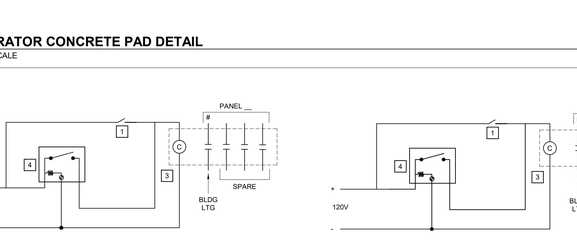
RECESSED DISPLAY WALL BOX AND FLOOR BOX DETAIL 2
NOT TO SCALE



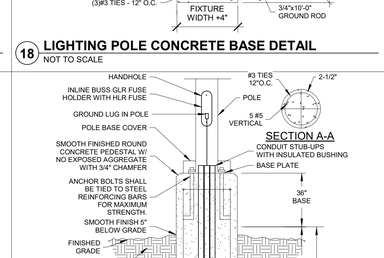
8 TYPICAL IT RACK DETAIL
NOT TO SCALE

NOTES:
1. ALL EXCAVATION IN ELECTRICAL ONLY TRENCHES BY E.C.
2. COORDINATE ALL WORK WITH UTIL. COMPANIES & APPLICABLE TRADES.
3. EXCAVATED MATERIAL SHALL BE PLACED A MINIMUM OF 2' FROM BOTH EDGES OF THE TRENCH.
4. EDGES OF TRENCH SHALL BE A MIN OF 36" FROM EDGE OF WATER, GAS OR SEWER PIPES.

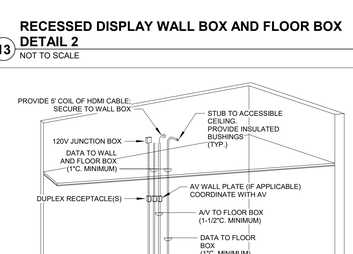
TRENCH DETAIL FOR GENERATOR CONDUITS
NOT TO SCALE



28 GENERATOR CONCRETE PAD DETAIL
NOT TO SCALE

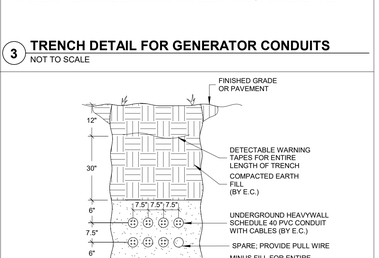


18 LIGHTING POLE CONCRETE BASE DETAIL
NOT TO SCALE



NOTES:
1. RECESSED WALL BOX SHALL BE EQUIVALENT TO CHIEF PAC525FCW WITH POWER, DATA AND A/V CONNECTIONS AS INDICATED. WALL BOX SHALL BE PROVIDED WITH MATCHING COVER AND BREAK AWAY EDGES FOR USE IN SHALLOW STUD WALLS WHERE NECESSARY.
2. COORDINATE EXACT ELEVATION WITH TV/DISPLAY INSTALLER AND ACTUAL MOUNT.

RECESSED DISPLAY WALL BOX AND FLOOR BOX DETAIL
NOT TO SCALE



7 HORIZONTAL CABLE ROUTING
NOT TO SCALE

NOTES:
1. ALL EXCAVATION IN ELECTRICAL ONLY TRENCHES BY E.C.
2. COORDINATE ALL WORK WITH UTILITY COMPANIES.
3. EXCAVATED MATERIAL SHALL BE PLACED A MINIMUM OF 2' FROM BOTH EDGES OF THE TRENCH.
4. EDGES OF TRENCH SHALL BE A MIN OF 36" FROM EDGE OF WATER, GAS OR SEWER PIPES.

TRENCH DETAIL FOR SECONDARY POWER CONDUITS
NOT TO SCALE

KEYED NOTES:
1. PROVIDE SINGLE POLE, SINGLE THROW PILOT LIGHT SNAP SWITCH. LOCATE SWITCH AT PANELBOARD AND PROVIDE WITH ENGRAVED NAME PLATE STATING, "EXTERIOR LIGHTING OVERRIDE."
2. BUILDING MOUNTED LIGHTING SHALL BE ON FROM DUSK TILL DAWN.
3. 30A/4P, NORMALLY OPEN, ELECTRICALLY HELD, 120V COIL, NEMA 1 ENCLOSED CONTACTOR. INSTALL IN MECH/ELEC. ROOM AT PANELBOARD.
4. 120V, 15A PHOTOCELL WITH METALLIC HOUSING EQUIVALENT TO INTERMATIC K4121M.

27 ELECTRIC LIGHTING CONTROL SCHEMATIC - STORAGE BUILDING
NOT TO SCALE

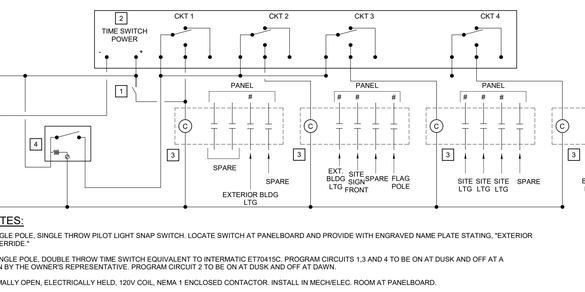
17 POLE LIGHT 36" CONCRETE BASE DETAIL
NOT TO SCALE

NOTES:
1. RECESSED WALL BOX SHALL BE EQUIVALENT TO CHIEF PAC525FCW WITH POWER, DATA AND A/V CONNECTIONS AS INDICATED. WALL BOX SHALL BE PROVIDED WITH MATCHING COVER AND BREAK AWAY EDGES FOR USE IN SHALLOW STUD WALLS WHERE NECESSARY.
2. COORDINATE EXACT ELEVATION WITH TV/DISPLAY INSTALLER AND ACTUAL MOUNT.

RECESSED DISPLAY WALL BOX AND FLOOR BOX DETAIL
NOT TO SCALE

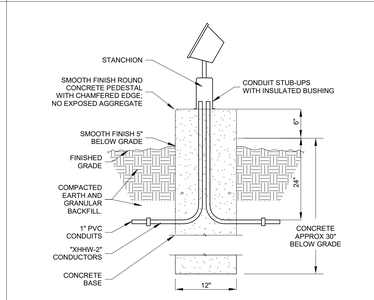
NOTES:
1. ALL EXCAVATION IN ELECTRICAL ONLY TRENCHES BY E.C.
2. COORDINATE ALL WORK WITH UTILITY COMPANIES.
3. EXCAVATED MATERIAL SHALL BE PLACED A MINIMUM OF 2' FROM BOTH EDGES OF THE TRENCH.
4. EDGES OF TRENCH SHALL BE A MIN OF 36" FROM EDGE OF WATER, GAS OR SEWER PIPES.

TRENCH DETAIL FOR PRIMARY POWER CONDUIT
NOT TO SCALE

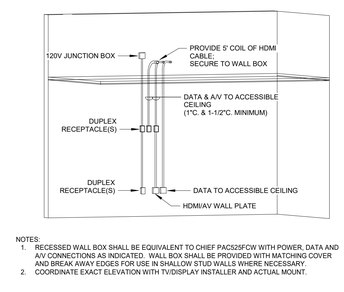


KEYED NOTES:
1. PROVIDE SINGLE POLE, SINGLE THROW PILOT LIGHT SNAP SWITCH. LOCATE SWITCH AT PANELBOARD AND PROVIDE WITH ENGRAVED NAME PLATE STATING, "EXTERIOR LIGHTING OVERRIDE."
2. 4 CIRCUIT, SINGLE POLE, DOUBLE THROW TIME SWITCH EQUIVALENT TO INTERMATIC ET704/15C. PROGRAM CIRCUITS 1,3 AND 4 TO BE ON AT DUSK AND OFF AT A TIME CHOSEN BY THE OWNER'S REPRESENTATIVE. PROGRAM CIRCUIT 2 TO BE ON AT DUSK AND OFF AT DAWN.
3. 30A/4P, NORMALLY OPEN, ELECTRICALLY HELD, 120V COIL, NEMA 1 ENCLOSED CONTACTOR. INSTALL IN MECH/ELEC. ROOM AT PANELBOARD.
4. 120V, 15A PHOTOCELL WITH METALLIC HOUSING EQUIVALENT TO INTERMATIC K4121M.

26 ELCTRICAL LIGHTING CONTROL SCHEMATIC
NOT TO SCALE

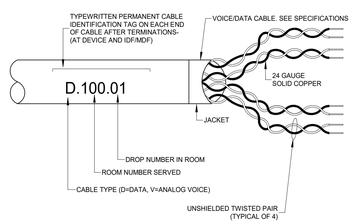


16 FLOOD LIGHT CONCRETE BASE DETAIL
NOT TO SCALE



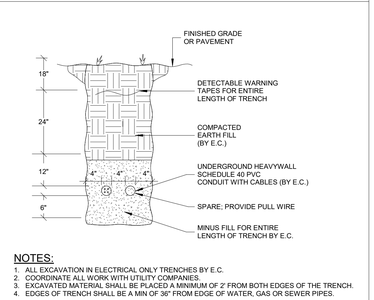
NOTES:
1. RECESSED WALL BOX SHALL BE EQUIVALENT TO CHIEF PAC525FCW WITH POWER, DATA AND A/V CONNECTIONS AS INDICATED. WALL BOX SHALL BE PROVIDED WITH MATCHING COVER AND BREAK AWAY EDGES FOR USE IN SHALLOW STUD WALLS WHERE NECESSARY.
2. COORDINATE EXACT ELEVATION WITH TV/DISPLAY INSTALLER AND ACTUAL MOUNT.

RECESSED DISPLAY/TV WALL BOX TYPICAL DETAIL
NOT TO SCALE



WIRING SHALL BE SOLID COPPER, 24 GAUGE, FOUR UNSHIELDED TWISTED PAIR(UTP), EIA/TIA 568-A CATEGORY 6 CABLE. SEE SPECIFICATIONS FOR COLOR CODING. SPLICING OF WIRING IS NOT PERMITTED. REFER TO SPECIFICATIONS FOR INSTALLATION TECHNIQUES. LABELING SHALL BE 1/4" HIGH, MINIMUM.

6 VOICE AND DATA WIRING IDENTIFICATION
NOT TO SCALE



NOTES:
1. ALL EXCAVATION IN ELECTRICAL ONLY TRENCHES BY E.C.
2. COORDINATE ALL WORK WITH UTILITY COMPANIES.
3. EXCAVATED MATERIAL SHALL BE PLACED A MINIMUM OF 2' FROM BOTH EDGES OF THE TRENCH.
4. EDGES OF TRENCH SHALL BE A MIN OF 36" FROM EDGE OF WATER, GAS OR SEWER PIPES.

1 TRENCH DETAIL FOR PRIMARY POWER CONDUIT
NOT TO SCALE

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ELECTRICAL DETAILS

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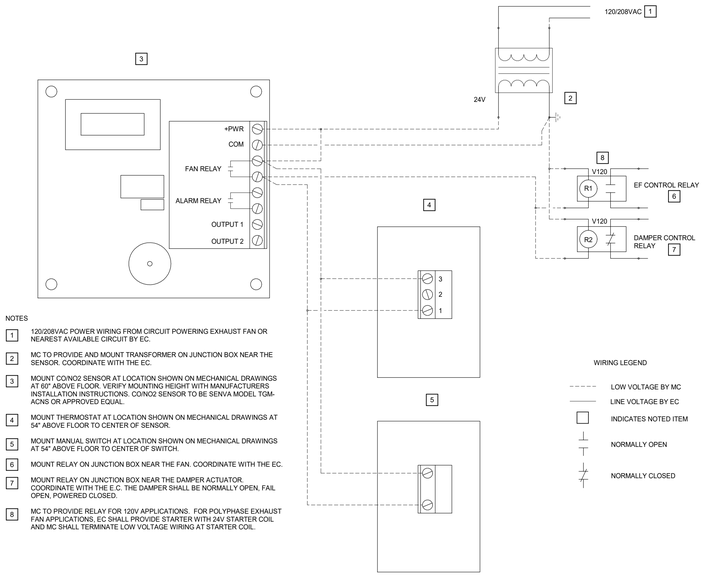
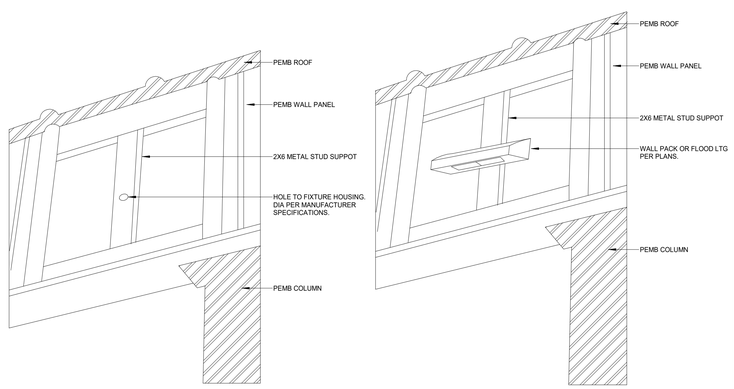


NOTES

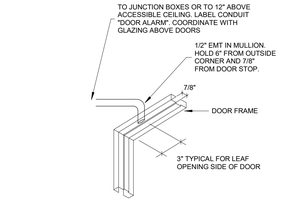
1. 120/208VAC POWER WIRING FROM CIRCUIT POWERING EXHAUST FAN OR NEAREST AVAILABLE CIRCUIT BY EC.
2. MC TO PROVIDE AND MOUNT TRANSFORMER ON JUNCTION BOX NEAR THE SENSOR. COORDINATE WITH THE EC.
3. MOUNT CO/NO2 SENSOR AT LOCATION SHOWN ON MECHANICAL DRAWINGS AT 60" ABOVE FLOOR. VERIFY MOUNTING HEIGHT WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. CO/NO2 SENSOR TO BE SENVA MODEL TGM-ACNS OR APPROVED EQUAL.
4. MOUNT THERMOSTAT AT LOCATION SHOWN ON MECHANICAL DRAWINGS AT 54" ABOVE FLOOR TO CENTER OF SENSOR.
5. MOUNT MANUAL SWITCH AT LOCATION SHOWN ON MECHANICAL DRAWINGS AT 54" ABOVE FLOOR TO CENTER OF SWITCH.
6. MOUNT RELAY ON JUNCTION BOX NEAR THE FAN. COORDINATE WITH THE EC.
7. MOUNT RELAY ON JUNCTION BOX NEAR THE DAMPER ACTUATOR. COORDINATE WITH THE E.C. THE DAMPER SHALL BE NORMALLY OPEN, FAIL OPEN, POWERED CLOSED.
8. MC TO PROVIDE RELAY FOR 120V APPLICATIONS. FOR POLYPHASE EXHAUST FAN APPLICATIONS, EC SHALL PROVIDE STARTER WITH 24V STARTER COIL AND MC SHALL TERMINATE LOW VOLTAGE WIRING AT STARTER COIL.

29 TYPICAL CO/NO2 SENSOR WIRING DIAGRAM FOR EF AND ASSOCIATED MD
NOT TO SCALE



NOTES:
1. DETAILS SHOW WITH METAL PANEL REMOVED. METAL PANELS SHALL BE INSTALLED BEHIND FIXTURE.

19 WALL MOUNTED LTG NOT AT PEMB CLOUMN
NOT TO SCALE

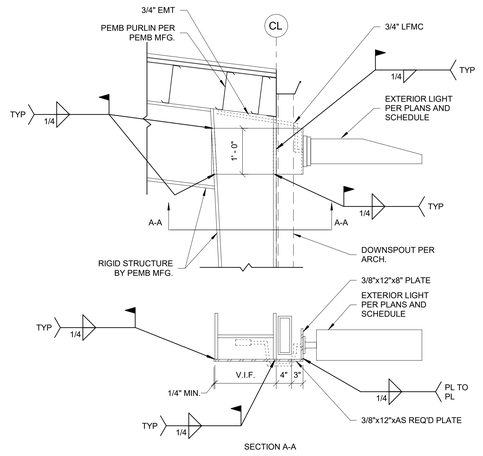


NOTES:
1. ALARM CONTACTS ARE FLUSH TYPE, FLUSHED INTO FRAME.

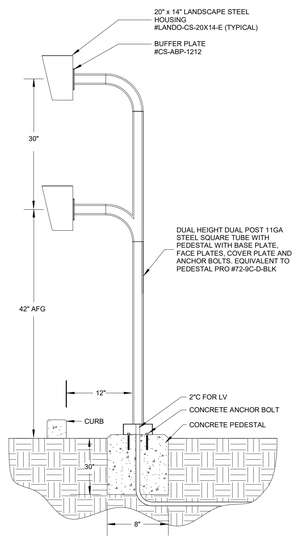
5 HEAD DETAIL FOR DOOR CONTACTS
NOT TO SCALE

	ANNUNCIATES ALARM SIGNAL AT FIRE ALARM CONTROL PANEL(S)	ANNUNCIATES SUPERVISORY SIGNAL AT FIRE ALARM CONTROL PANEL(S)	ANNUNCIATES TROUBLE SIGNAL AT FIRE ALARM CONTROL PANEL(S)	TRANSMITS ALARM SIGNAL TO SUPERVISING STATION	TRANSMITS SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMITS TROUBLE SIGNAL TO SUPERVISING STATION	ACTIVATES AUDIO/VISUAL NOTIFICATION APPLIANCES (INCLUDING RESIDENT UNITS)	RELEASE ALL DOOR HOLD OPENS	ACTIVATES WATERFLOW ALARM	SHUT DOWN HIGH VOLUME LOW VELOCITY FANS PER NFPA 13, ARTICLE 11.	INITIATE ELEVATOR RECALL - PRIMARY FLOOR	SHUT DOWN ASSOCIATED HVAC UNIT(S)	CLOSE ASSOCIATED SMOKE OR FIRE-SMOKE DAMPER(S)
SMOKE DETECTORS													
- AREA SMOKE DETECTORS	X			X			X	X			X		
- ELEC ROOMS / FACP / FAPS	X			X			X	X			X		
- DUCT MOUNTED		X			X							X	X
HEAT DETECTORS													
- KITCHEN & AREA DETECTORS	X			X			X	X			X		
MANUAL CONTROLS													
- MANUAL PULL STATION AT FACP / EXITS	X			X			X	X					
SPRINKLER SYSTEM													
- FLOW SWITCH	X			X			X	X	X	X			
- TAMPER SWITCH		X			X								
- PRESSURE SWITCH		X			X								
- AUTOMATIC AIR VENT		X			X								
KITCHEN HOOD SUPPRESSION													
- MONITORING MODULE - HIGH TEMPERATURE		X			X								
- MONITORING MODULE - FIRE SUPPRESSION ACTIVATED	X			X			X	X					
GENERATOR SET MONITOR MODULES													
- LOW FUEL SIGNAL		X			X								
- TROUBLE SIGNAL			X			X							
FIRE PUMP MONITOR MODULES													
- CONTROLLER LOSS OF POWER		X			X								
- PHASE REVERSAL			X			X							
- PUMP RUNNING		X			X								
- TROUBLE CONDITION (DIESEL ONLY)			X			X							
LOW TEMPERATURE													
- LOW TEMPERATURE SENSOR	X			X									
FIRE ALARM INTEGRITY													
- FIRE ALARM CONTROL PANEL LOSS OF POWER			X			X							
- CABLING LINE OPEN, SHORT OR GROUND CIRCUIT			X			X							

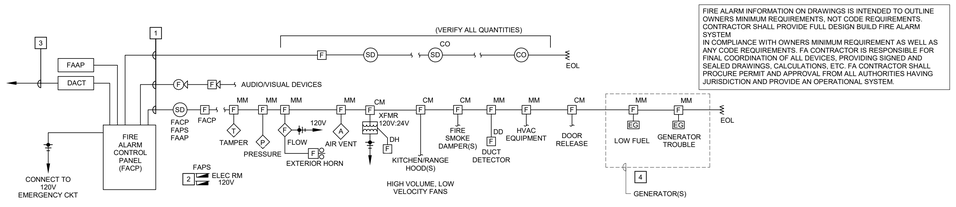
8 FIRE ALARM MATRIX
NOT TO SCALE



17 TYPICAL EXTERIOR LIGHT @ PEMB
NOT TO SCALE



22 PEDESTAL/GATE OPERATOR DETAIL.
NOT TO SCALE

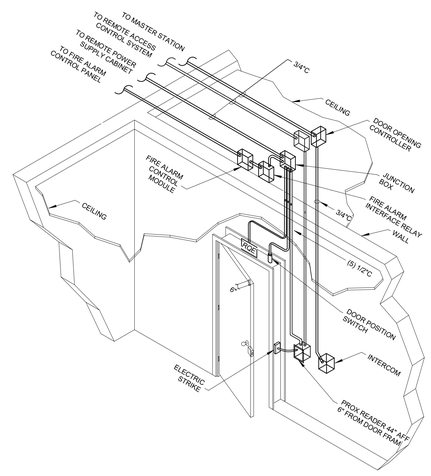


FIRE ALARM INFORMATION ON DRAWINGS IS INTENDED TO OUTLINE OWNERS MINIMUM REQUIREMENTS, NOT CODE REQUIREMENTS. CONTRACTOR SHALL PROVIDE FULL DESIGN BUILD FIRE ALARM SYSTEM
IN COMPLIANCE WITH OWNERS MINIMUM REQUIREMENT AS WELL AS ANY CODE REQUIREMENTS. FA CONTRACTOR IS RESPONSIBLE FOR FINAL COORDINATION OF ALL DEVICES, PROVIDING SIGNED AND SEALED DRAWINGS, CALCULATIONS, ETC. FA CONTRACTOR SHALL PROCURE PERMIT AND APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION AND PROVIDE AN OPERATIONAL SYSTEM.

NOTES:

1. PROVIDE DEDICATED SET OF J-HOOKS FOR FIRE ALARM SYSTEM CABLES, DO NOT LAY ON CEILING. ALL CABLES SUBJECT TO DAMAGE AND/OR BELOW 10' AFF SHALL BE IN CONDUIT.
2. THE FIRE ALARM CONTRACTOR SHALL VERIFY AND PROVIDE THE REQUIRED QUANTITY OF POWER SUPPLY UNITS WITH BATTERY BACKUP FOR THE FIRE ALARM SYSTEM AUDIO/VISUAL APPLIANCES. LOCATE IN AN ELECTRICAL ROOM. EC SHALL PROVIDE 120V POWER AS DIRECTED BY F.A. CONTRACTOR.
3. PROVIDE TWO DEDICATED TELEPHONE LINES AND/OR PROVIDE ONE DATA CONNECTION AND A CELLULAR BACKUP. COORDINATE WITH ELECTRICAL SPECIFICATIONS AND ACTUAL SITE CONDITIONS.
4. PROVIDE CONNECTION TO GENERATOR CONTROLLER.

21 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



6 SINGLE DOOR HARDWARE DETAIL - ELECTRIC STRIKE
NOT TO SCALE

M+H ARCHITECTS

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ELECTRICAL DETAILS

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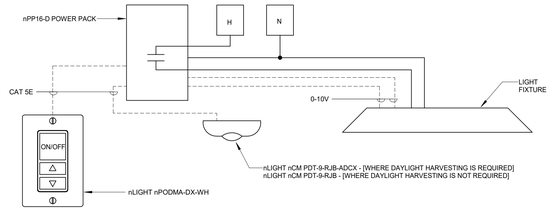
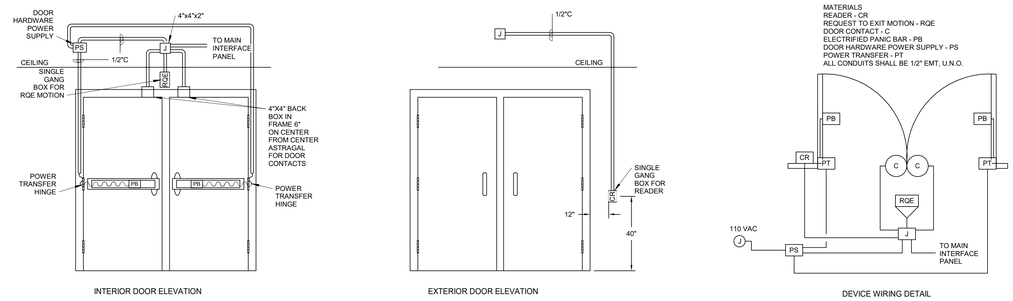


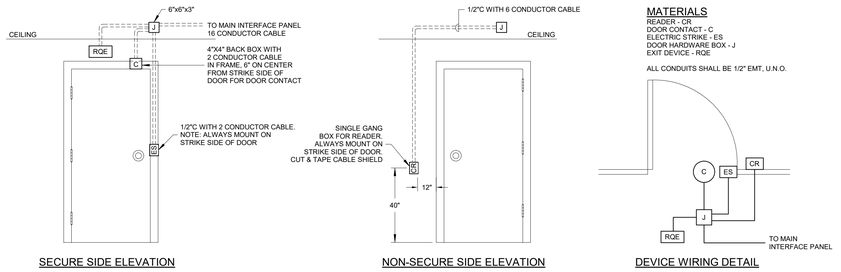
GENERAL NOTES:

1. PROGRAM SYSTEM AS MANUAL ONTO 100% - AUTO-OFF AFTER 20 MIN PER IECC.
2. LIGHTING CONTROLS SHALL BE ACUITY nLIGHT OR EQUIVALENT BY COOPER LIGHTING, WATTSTOPPER/LEGRAND OR LUTRON.
3. PROVIDE ALL NECESSARY WIRING, CABLING, POWER PACKS, RELAY'S, MOUNTING ACCESSORIES OR RELATED EQUIPMENT FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE ALL NECESSARY PROGRAMMING AND TESTING. PROVIDE TRAINING TO OWNER AFTER SUBSTANTIAL COMPLETION.
4. VERIFY FINISHES OF ALL SWITCHES, DEVICES, WALL PLATES, ETC WITH ARCHITECTURAL PLANS.
5. PROVIDE LABELING AT SWITCH. REVIEW TERMINOLOGY WITH OWNER.

9 TYPICAL EXTERIOR OFFICE WITH VACANCY SENSING & DAYLIGHT HARVESTING
NOT TO SCALE

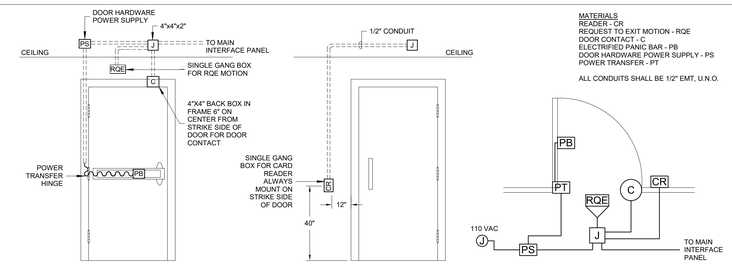


13 DOUBLE ACCESS DOOR W/ELECTRIFIED PANIC HARDWARE & RQE MOTION
NOT TO SCALE



THIS DETAIL IS PROVIDED FOR TYPICAL ROUGH-IN REQUIREMENTS. PRIOR TO WORK, COORDINATE AND VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE INSTALLER, ARCHITECTURAL PLANS AND ACTUAL FIELD CONDITIONS.

12 SINGLE ACCESS DOOR W/ELECTRIC STRIKE & RQE MOTION
NOT TO SCALE



THIS DETAIL IS PROVIDED FOR TYPICAL ROUGH-IN REQUIREMENTS. PRIOR TO WORK, COORDINATE AND VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE INSTALLER, ARCHITECTURAL PLANS AND ACTUAL FIELD CONDITIONS.

11 SINGLE ACCESS DOOR W/ELECTRIFIED PANIC HARDWARE & RQE MOTION
NOT TO SCALE

M+H ARCHITECTS

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ELECTRICAL DETAILS

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SSC JOB# 2025456_NOT FOR CONSTRUCTION

Branch Panel: HV2

Location: ELEC. CLOSET E122
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 250 A
MCB Rating:

Notes:
EXISTING

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LIGHTS 101	20 A	1	0 VA			--			1	--	Space	2	
	3	LIGHTS 101	20 A	1		0 VA			--		1	--	Space	4	
	5	LIGHTS 101	20 A	1			0 VA			--	1	--	Space	6	
	7	LIGHTS 101	20 A	1	0 VA			0 VA			3	50 A	Spare	8	
	9	WALL PACKS	20 A	1		0 VA			0 VA		--	--	--	10	--
	11	POLE LIGHTS	20 A	1			0 VA			0 VA	--	--	--	12	--
	13	POLE LIGHTS	20 A	1	0 VA			0 VA			3	30 A	AC-3	14	
	15	Space	--	1		--			0 VA		--	--	--	16	--
	17	Space	--	1			--			0 VA	--	--	--	18	--
	19	Spare	50 A	3	0 VA			--			1	--	Space	20	
--	21	--	--	--		0 VA			--		1	--	Space	22	
--	23	--	--	--			0 VA			--	1	--	Space	24	
	25	Space	--	1				0 VA			1	20 A	Spare	26	
	27	Space	--	1		--			0 VA		1	20 A	Spare	28	
	29	Space	--	1			--			0 VA	1	20 A	Spare	30	
	31	Space	--	1	--			--			1	--	Space	32	
	33	Space	--	1		--			--		1	--	Space	34	
	35	Space	--	1			--			--	1	--	Space	36	
	37	Space	--	1	--			--			1	--	Space	38	
	39	Space	--	1		--			--		1	--	Space	40	
	41	Space	--	1			--			--	1	--	Space	42	
			Total Load:		0 VA		0 VA		0 VA						
			Total Amps:		0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
SIEMENS #I1X42MC250C

Switchboard: MDP

Location: ELEC. CLOSET E122
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:
EXISTING

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	HV2	3	250 A	200 A	0 VA	
2	HV-1	3	400 A	20 A	0 VA	
3	T LV-3	3	250 A	100 A	0 VA	
4	FP	3	250 A	100 A	0 VA	1
5	T LV-4	3	250 A	100 A	0 VA	
6	AC-2	3	100 A	70 A	0 VA	
7	HV3	3	250 A	225 A	0 VA	
8	HV4	3	250 A	225 A	0 VA	2
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	0 VA	
				Total Amps:	0 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
SIEMENS SB #86-77662-A00010

Branch Panel: HV3

Location: ELEC. CLOSET E122
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 250 A
MCB Rating:

Notes:
EXISTING

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	AC-1	70 A	3	0 VA			0 VA			3	50 A	Spare	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
--	5	--	--	--			0 VA			0 VA	--	--	--	6	--
	7	Spare	50 A	3	0 VA			0 VA			3	50 A	Spare	8	
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	Spare	20 A	3	0 VA			0 VA			3	50 A	Spare	14	
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
--	17	--	--	--			0 VA			0 VA	--	--	--	18	--
	19	Spare	20 A	3	0 VA			0 VA			3	50 A	Spare	20	
--	21	--	--	--		0 VA			0 VA		--	--	--	22	--
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
	25	Spare	50 A	3	0 VA			--			1	--	Space	26	
--	27	--	--	--		0 VA			--		1	--	Space	28	
--	29	--	--	--			0 VA			--	1	--	Space	30	
	31	Space	--	1	--			--			1	--	Space	32	
	33	Space	--	1		--			--		1	--	Space	34	
	35	Space	--	1			--			--	1	--	Space	36	
	37	Space	--	1	--			--			1	--	Space	38	
	39	Space	--	1		--			--		1	--	Space	40	
	41	Space	--	1			--			--	1	--	Space	42	
			Total Load:		0 VA		0 VA		0 VA						
			Total Amps:		0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
SIEMENS #S2E4ML250ABS

Branch Panel: HV-1

Location: ELEC. CLOSET E121
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 250 A
MCB Rating:

Notes:
EXISTING

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LIGHTS 111-117	20 A	1	0 VA			0 VA			1	20 A	Spare	2	
	3	LIGHTS 100-110	20 A	1		0 VA			0 VA		1	20 A	Spare	4	
	5	Spare	20 A	1			0 VA			--	1	--	Space	6	
	7	LIGHT CONF RM #1, #2	20 A	1	0 VA			0 VA			3	30 A	AC-4	8	
	9	Space	--	1		--			0 VA		--	--	--	10	--
	11	Space	--	1			--			0 VA	--	--	--	12	--
	13	Space	--	1	--			0 VA			3	30 A	AC-5	14	
	15	Space	--	1		--			0 VA		--	--	--	16	--
	17	Space	--	1			--			0 VA	--	--	--	18	--
	19	Spare	20 A	2	0 VA				--		1	--	Space	20	
--	21	--	--	--		0 VA				--	1	--	Space	22	
	23	Space	--	1			--				3	20 A	Spare	24	
	25	Space	--	1	--			0 VA			--	--	--	26	--
	27	Space	--	1		--			0 VA		--	--	--	28	--
	29	T LV-2	100 A	3			0 VA			0 VA	3	20 A	Spare	30	
--	31	--	--	--	0 VA			0 VA			--	--	--	32	--
--	33	--	--	--		0 VA			0 VA		--	--	--	34	--
	35	T LV-1	100 A	3			0 VA			--	1	--	Space	36	
--	37	--	--	--	0 VA			--			1	--	Space	38	
--	39	--	--	--		0 VA			0 VA		1	20 A	Spare	40	
	41	Space	--	1			--			--	1	--	Space	42	
			Total Load:		0 VA			0 VA		0 VA					
			Total Amps:		0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

G - PROVIDE GFCI BREAKER
ST - PROVIDE SHUNT TRIP BREAKER
EX - EXISTING LOAD TO REMAIN
1 - EXISTING LOAD DEMOLISHED. REUSE EXISTING CIRCUIT BREAKER FOR NEW LOAD
2 - EXISTING SPACE, PROVIDE NEW BREAKER AS INDICATED.

M+H ARCHITECTS

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Sheet Issue Date: 03/04/25
Job Number: 2025456
Drawn By: KWS
Checked By: JAH

Drawing Title:
ELECTRICAL PANEL SCHEDULES - OPERATIONS

E0.10

SSC JOB# 2025456_NOT FOR CONSTRUCTION

Branch Panel: LV-3

Location: ELEC. CLOSET E122
Supply From: T LV-3
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 200 A

Notes:
EXISTING

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	2	
	3	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	4	
	5	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLES 101	6	
	7	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	8	
	9	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	10	
	11	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLES 101	12	
	13	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	14	
	15	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	16	
	17	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLES 101	18	
	19	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	20	
	21	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	22	
	23	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLES 101	24	
	25	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	26	
	27	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	28	
	29	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLES 101	30	
	31	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	32	
	33	TV REC 101	20 A	1		0 VA			0 VA		1	20 A	Spare	34	
	35	IT RACK 101	20 A	1			0 VA			0 VA	1	20 A	Spare	36	
	37	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	38	
	39	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
SIEMENS

Branch Panel: LV-1

Location: ELEC. CLOSET E121
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 200 A

Notes:
EXISTING

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC 102, 103	20 A	1	0 VA			0 VA			2	30 A	WATER HEATER	2	
	3	REC 104, 105	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	LOCKER RM REC	20 A	1			0 VA			0 VA	1	20 A	MICROWAVE BREAK ROOM	6	
	7	HAND DRYER WOMENS	20 A	1	0 VA			0 VA			1	20 A	MICROWAVE BREAK ROOM	8	
	9	HAND DRYER WOMENS	20 A	1		0 VA			0 VA		1	20 A	MICROWAVE BREAK ROOM	10	
	11	HAND DRYER WOMENS	20 A	1			0 VA			0 VA	1	20 A	MICROWAVE BREAK ROOM	12	
	13	HAND DRYER WOMENS	20 A	1	0 VA			0 VA			1	20 A	MICROWAVE BREAK ROOM	14	
	15	EXHAUST FAN & REC	20 A	1		0 VA			0 VA		1	20 A	MICROWAVE BREAK ROOM	16	
	17	HAND DRYER MENS	20 A	1			0 VA			0 VA	1	20 A	MICROWAVE BREAK ROOM	18	
	19	HAND DRYER MENS	20 A	1	0 VA			0 VA			1	20 A	MICROWAVE BREAK ROOM	20	
	21	HAND DRYER MENS	20 A	1		0 VA			0 VA		1	20 A	MICROWAVE BREAK ROOM	22	
	23	REC BREAK ROOM	20 A	1			0 VA			0 VA	1	20 A	MICROWAVE BREAK ROOM	24	
	25	ICE MACHINE	20 A	1	0 VA			0 VA			1	20 A	BLINDS	26	
	27	VENDING	20 A	1		0 VA			0 VA		1	20 A	BLINDS	28	
	29	VENDING	20 A	1			0 VA			0 VA	1	20 A	REC OFFICE 112, 113	30	
	31	VENDING	20 A	1	0 VA			0 VA			1	20 A	FIRE ALARM PANEL	32	
	33	VENDING	20 A	1		0 VA			0 VA		1	20 A	OUTSIDE REC	34	
	35	DISPOSAL BREAK ROOM	20 A	1			0 VA			0 VA	1	20 A	Spare	36	
	37	DISPOSAL BREAK ROOM	20 A	1	0 VA			0 VA			1	20 A	Spare	38	
	39	REC BREAK ROOM	20 A	1		0 VA			0 VA		1	20 A	Spare	40	
	41	REC BREAK ROOM	20 A	1			0 VA			0 VA	1	20 A	Spare	42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
SIEMENS

Branch Panel: LV-4

Location: ELEC. CLOSET E122
Supply From: T LV-4
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 200 A

Notes:
EXISTING

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	2	
	3	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	4	
	5	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLES 101	6	
	7	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	8	
	9	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	10	
	11	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLES 101	12	
	13	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	POWER POLES 101	14	
	15	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLES 101	16	
	17	POWER POLES 101	20 A	1			0 VA			0 VA	1	20 A	COPIER	18	
	19	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	TV REC 101	20	
	21	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	REC 101	22	
	23	COPIER	20 A	1			0 VA			0 VA	1	20 A	REC 101	24	
	25	POWER POLES 101	20 A	1	0 VA			0 VA			1	20 A	TV REC 101	26	
	27	POWER POLES 101	20 A	1		0 VA			0 VA		1	20 A	COPIER	28	
	29	POWER POLES 101	20 A	1			0 VA			0 VA	2	30 A	IT ROOM AC	30	
	31	POWER POLES 101	20 A	1	0 VA			0 VA			--	--	--	32	--
	33	IT ROOM AC	30 A	2		0 VA			0 VA		2	30 A	IT ROOM AC	34	
--	35	--	--	--			0 VA			0 VA	--	--	--	36	--
	37	IT ROOM AC	30 A	2	0 VA			0 VA			1	20 A	OUTSIDE REC	38	
--	39	--	--	--		0 VA			0 VA		1	20 A	Spare	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
SIEMENS

Branch Panel: LV-2

Location: ELEC. CLOSET E121
Supply From: T LV-2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 175 A

Notes:
EXISTING

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC 114, 115	20 A	1	0 VA			0 VA			1	20 A	VENDING BREAK ROOM	2	
	3	REC IT ROOM	20 A	1		0 VA			0 VA		1	20 A	VENDING BREAK ROOM	4	
	5	REC IT RACK	20 A	1			0 VA			0 VA	1	20 A	POWER POLE 101	6	
	7	REC IT RACK	20 A	1	0 VA			0 VA			1	20 A	POWER POLE 101	8	
	9	REC IT RACK	20 A	1		0 VA			0 VA		1	20 A	POWER POLE 101	10	
	11	REC IT RACK	30 A	1			0 VA			0 VA	1	20 A	POWER POLE 101	12	
	13	REC IT RACK	30 A	1	0 VA			0 VA			1	20 A	POWER POLE 101	14	
	15	REC IT RACK	20 A	1		0 VA			0 VA		1	20 A	POWER POLE 101	16	
	17	REC IT RACK	20 A	1			0 VA			0 VA	1	20 A	POWER POLE 101	18	
	19	REC CONFERENCE ROOM 2	20 A	1	0 VA			0 VA			1	20 A	POWER POLE 101	20	
	21	REC CONFERENCE ROOM 2	20 A	1		0 VA			0 VA		1	20 A	POWER POLE 101	22	
	23	REC CONFERENCE ROOM 1	20 A	1			0 VA			0 VA	1	20 A	POWER POLE 101	24	
	25	REC CONFERENCE ROOM 1	20 A	1	0 VA			0 VA			1	20 A	POWER POLE 101	26	
	27	COPIER 101	20 A	1		0 VA			0 VA		1	20 A	POWER POLE 101	28	
	29	REC 101	20 A	1			0 VA			0 VA	1	20 A	POWER POLE 101	30	
	31	FREEZER BREAK ROOM	20 A	1	0 VA			0 VA			1	20 A	POWER POLE 101	32	
	33	FREEZER BREAK ROOM	20 A	1		0 VA			0 VA		1	20 A	POWER POLE 101	34	
	35	REFRIGERATOR BREAK ROOM	20 A	1			0 VA			0 VA	1	20 A	POWER POLE 101	36	
	37	REFRIGERATOR BREAK ROOM	20 A	1	0 VA			0 VA			1	20 A	REC CONFERENCE ROOM 2	38	
	39	Spare	20 A	1		0 VA			0 VA		1	20 A	REC CONFERENCE ROOM 1	40	
	41	Spare	20 A	1			0 VA			--	1	--	Space	42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
SIEMENS

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

G - PROVIDE GFCI BREAKER
ST - PROVIDE SHUNT TRIP BREAKER
EX - EXISTING LOAD TO REMAIN
1 - EXISTING LOAD DEMOLISHED. REUSE EXISTING CIRCUIT BREAKER FOR NEW LOAD
2 - EXISTING SPACE, PROVIDE NEW BREAKER AS INDICATED.

M+H ARCHITECTS

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Checked By:	JAH

Drawing Title:
ELECTRICAL PANEL SCHEDULES - OPERATIONS

E0.11

SSC JOB# 2025456_NOT FOR CONSTRUCTION

Branch Panel: U1

Location: SERVER ROOM 149
Supply From: UPS-1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 200

Notes:
NEW

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1													2	
	3													4	
	5													6	
	7													8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
			Total Load:		0 VA			0 VA							
			Total Amps:		0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: L1

Location: ELEC. 160
Supply From: T1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MLO
Mains Rating: 600 A
MCB Rating:

Notes:
NEW

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	ATS-2	200 A	3	0 VA									2	
--	3	--	--	--		0 VA								4	
--	5	--	--	--			0 VA							6	
	7													8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
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	65													66	
	67													68	
	69													70	
	71													72	
	73													74	
	75													76	
	77													78	
	79							0 VA			3	30 A	SPD	80	
	81								0 VA		--	--	--	82	--
	83									0 VA	--	--	--	84	--
			Total Load:		0 VA			0 VA		0 VA					
			Total Amps:		0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: S1

Location:
Supply From: ATS-2A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 200 A

Notes:
NEW

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1							0 VA			3	175 A	UPS	2	
	3								0 VA		--	--	--	4	--
	5									0 VA	--	--	--	6	--
	7													8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
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	49													50	
	51													52	
	53													54	
	55													56	
	57													58	
	59													60	
	61							0 VA			3	30 A	SPD	62	
	63								0 VA		--	--	--	64	--
	65									0 VA	--	--	--	66	--
			Total Load:		0 VA			0 VA		0 VA					
			Total Amps:		0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Switchboard: MDP1

Location: ELEC. 160
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 28,000
Mains Type: MLO
Mains Rating: 600 A
MCB Rating:

Notes:
NEW

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	SPD	3	100 A	30 A	0 VA	
2	T1	3	250 A	250 A	0 VA	
3	H1	3	250 A	250 A	0 VA	
4	T2	3	250 A	175 A	0 VA	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	0 VA	
				Total Amps:	0 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: H1

Location: ELEC. 160
Supply From: MDP1
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: MLO
Mains Rating: 250 A
MCB Rating:

Notes:
NEW

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1													2	
	3													4	
	5													6	
	7													8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37							0 VA			3	30 A	SPD	38	
	39									0 VA	--	--	--	40	--
	41										--	--	--	42	--
			Total Load:		0 VA			0 VA		0 VA					
			Total Amps:		0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

G - PROVIDE GFCI BREAKER
ST - PROVIDE SHUNT TRIP BREAKER
EX - EXISTING LOAD TO REMAIN
1 - EXISTING LOAD DEMOLISHED. REUSE EXISTING CIRCUIT BREAKER FOR NEW LOAD
2 - EXISTING SPACE, PROVIDE NEW BREAKER AS INDICATED.

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ELECTRICAL PANEL SCHEDULES - OFFICE

E0.13

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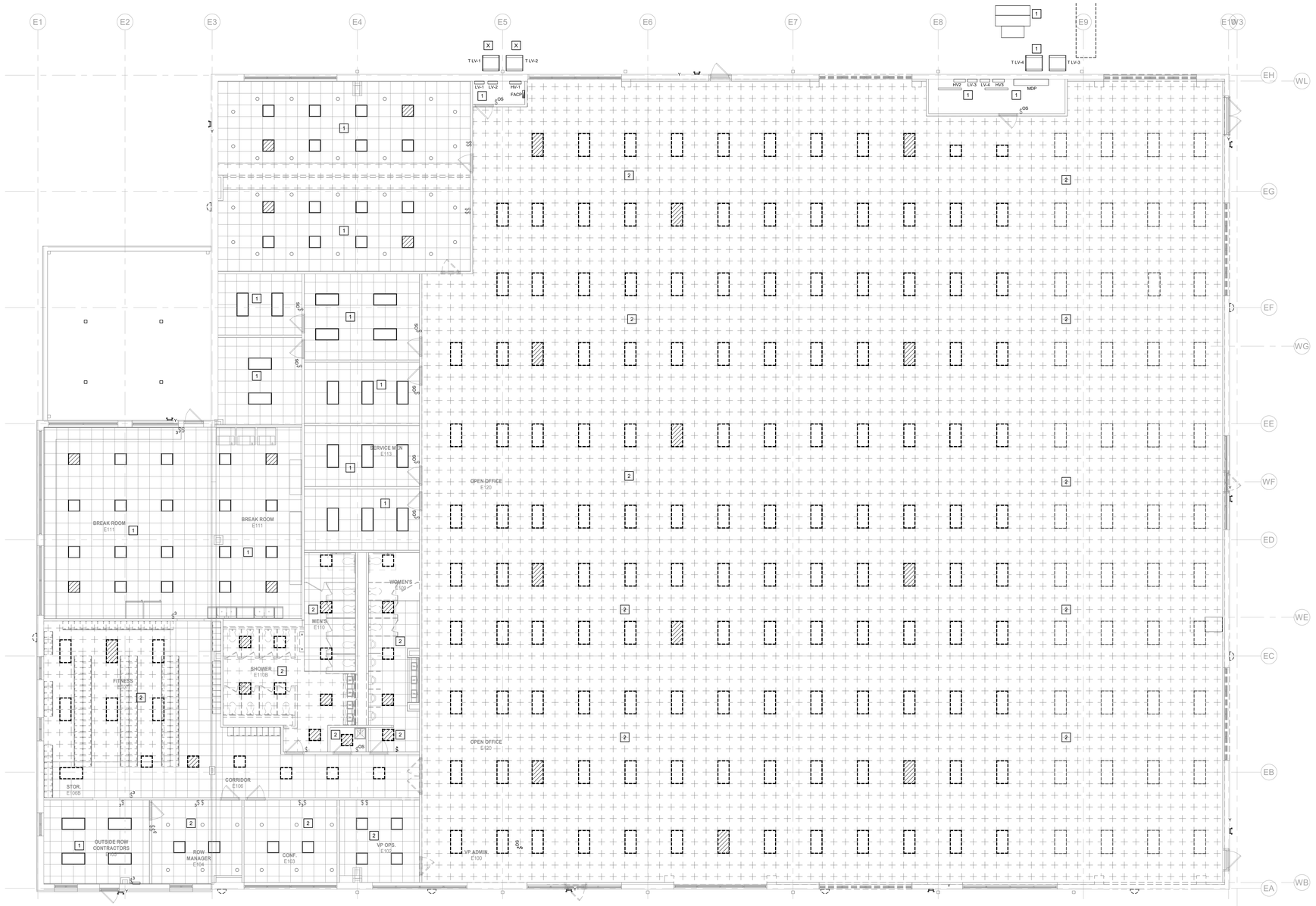
ELECTRICAL DEMOLITION GENERAL NOTES:

1. REFER TO SHEET E0.X FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES INCLUDING GENERAL DEMOLITION NOTES.
2. EXISTING FIXTURES & DEVICES TO REMAIN ARE INDICATED WITH THIN SOLID LINES; DARK DASHED LINES INDICATE FIXTURES/DEVICES THAT ARE INTENDED TO BE DEMOLISHED.
3. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

ELECTRICAL KEYED NOTES:

1 EXISTING TO REMAIN.

2 DEMO EXISTING FIXTURE, SWITCH, SUPPORTS, AND CIRCUITRY BACK TO SOURCE.



ELECTRICAL FLOOR LIGHTING DEMOLITION PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
NORTH

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ELECTRICAL DEMO LIGHTING PLAN - OPERATIONS

ED1.1

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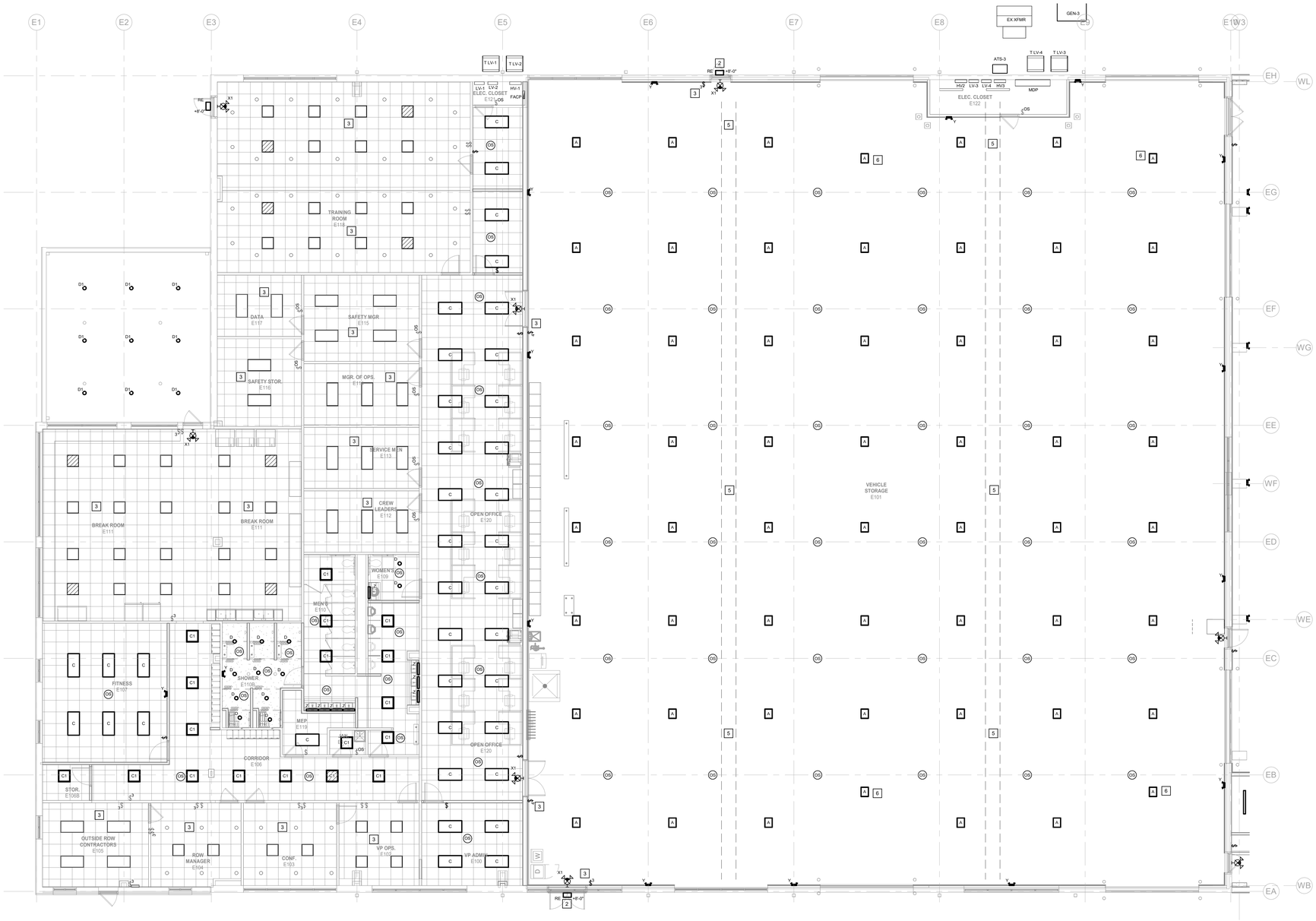
ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR LIGHTING CONTROL SCHEMATIC.
3. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR SEISMIC SUPPORTS OF LIGHTING FIXTURES.
4. SUSPENDED CEILING SYSTEMS ARE DESIGNED TO SUPPORT THE WEIGHT OF ALL LIGHTING FIXTURES. THE STRUCTURAL FRAMING SHALL SUPPORT ALL CONDUITS, JUNCTION BOXES, ETC ABOVE CEILINGS.
5. EMERGENCY LIGHTING SHALL BE SWITCHED AND NOT BE USED AS A NIGHT LIGHT. CONNECT EMERGENCY BALLAST VOLTAGE SENSING LEADS AHEAD OF SWITCH LEG OR OTHER CONTROL DEVICE.

ELECTRICAL KEYED NOTES:

1. CONTROL LIGHTING BY PHOTOCELL PRE DETAIL ON E0.6.
2. CONTROL LIGHTING BY PHOTOCELL PRE DETAIL ON E0.6. PROVIDE UNSWITCHED VOLTAGE SENSING LEADS FORM SAME BRANCH CIRCUIT TP BATTERY BALLAST.
3. PROVIDE LIGHTING CONTROL VIA CEILING MOUNTED OCCUPANCY/VACANCY SENSOR WITH LOCAL SWITCH "ON": OVERRIDE. REFER TO LIGHTING CONTROL DETAIL ON SHEET E0.7.
4. EXISTING TO REMAIN.
5. APPROXIMATE LOCATION OF DUCT WORK, AVOID DUCT WORK TO GREATEST EXTENT POSSIBLE
6. MOUNT FIXTURE UNDER PEMB BEAM OR SO THAT FIXTURE IS NOT OBSTRUCTED BY BEAM OR OVERHEAD DOOR.



ELECTRICAL LIGHTING PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
NORTH

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ELECTRICAL LIGHTING PLAN - OPERATIONS

E1.1

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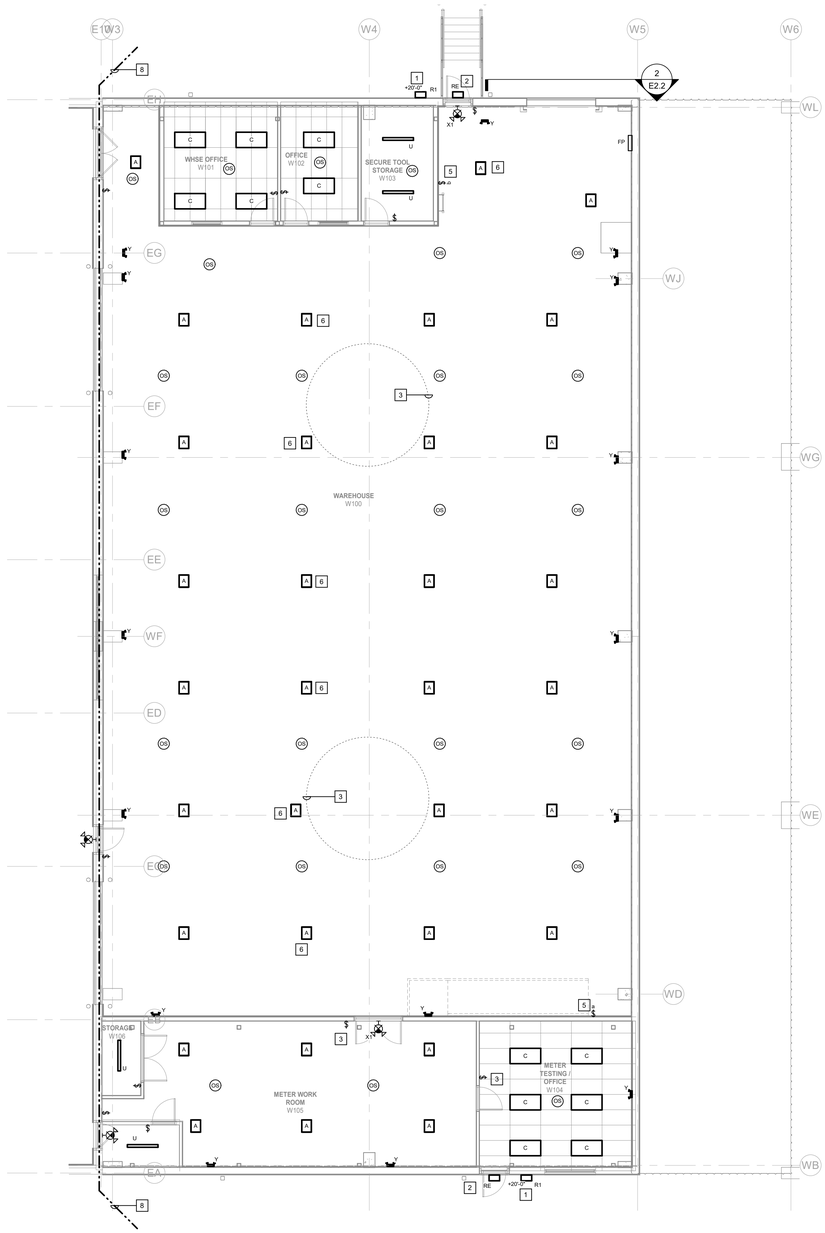
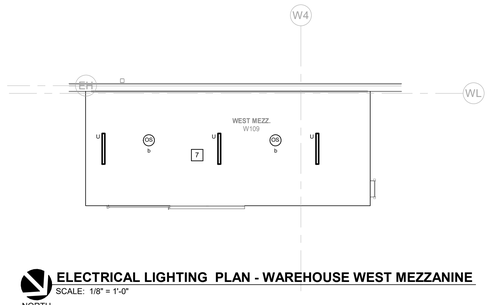


ELECTRICAL LIGHTING PLAN - WAREHOUSE

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

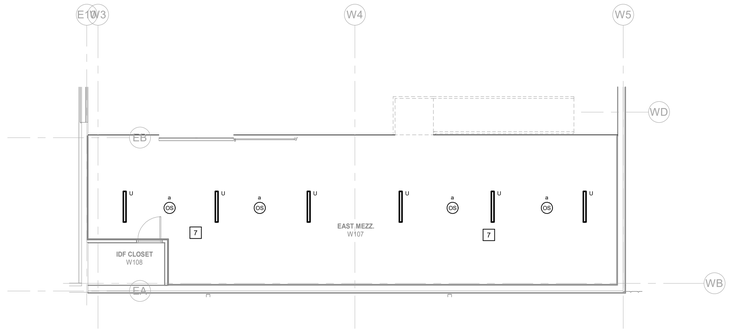
NORTH



ELECTRICAL LIGHTING PLAN - WAREHOUSE WEST MEZZANINE

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

NORTH



ELECTRICAL LIGHTING PLAN - WAREHOUSE EAST MEZZANINE

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

NORTH

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR LIGHTING CONTROL SCHEMATIC.
3. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR SEISMIC SUPPORTS OF LIGHTING FIXTURES.
4. SUSPENDED CEILING SYSTEMS ARE DESIGNED TO SUPPORT THE WEIGHT OF ALL LIGHTING FIXTURES. THE STRUCTURAL FRAMING SHALL SUPPORT ALL CONDUITS, JUNCTION BOXES, ETC ABOVE CEILINGS.
5. EMERGENCY LIGHTING SHALL BE SWITCHED AND NOT BE USED AS A NIGHT LIGHT. CONNECT EMERGENCY BALLAST VOLTAGE SENSING LEADS AHEAD OF SWITCH LEG OR OTHER CONTROL DEVICE.

ELECTRICAL KEYED NOTES:

1. CONTROL LIGHTING WITH PHOTOCELL PER DETAIL XXX
2. CONTROL LIGHTING WITH PHOTOCELL PER DETAIL XX. PROVIDE UNSWITCHED VOLTAGE SENSING LEADS FROM SAME BRANCH CIRCUIT TO BATTERY BALLAST.
3. PROVIDE LIGHTING CONTROL VIA CEILING MOUNTED OCCUPANCY/VACANCY SENSOR WITH LOCAL SWITCH "OFF" OVERRIDE. REFER TO LIGHTING CONTROL DETAIL XX.
4. MAINTAIN 2' CLEARANCE BETWEEN LIGHTING FIXTURE AND TIPS OF FAN BLADES.
5. PROVIDE SWITCH FOR OFF OVERRIDE CONTROL OF LIGHTING ON MEZZANINE.
6. MOUNT FIXTURE UNDER PEMB BEAM OR SO THAT FIXTURE IS NOT OBSTRUCTED BY BEAM OR OVERHEAD DOOR.
7. SUSPEND FIXTURES IN THIS ROOM AT 18" BELOW STRUCTURE.
8. EXPANSION JOINT. PROVIDE EXPANSION DEFLECTION FITTING OR OTHER MEANS TO ACCOMMODATE 2" DISPLACEMENT WHERE CONDUITS CROSS JOINT.

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ELECTRICAL LIGHTING PLAN - WAREHOUSE

E1.2

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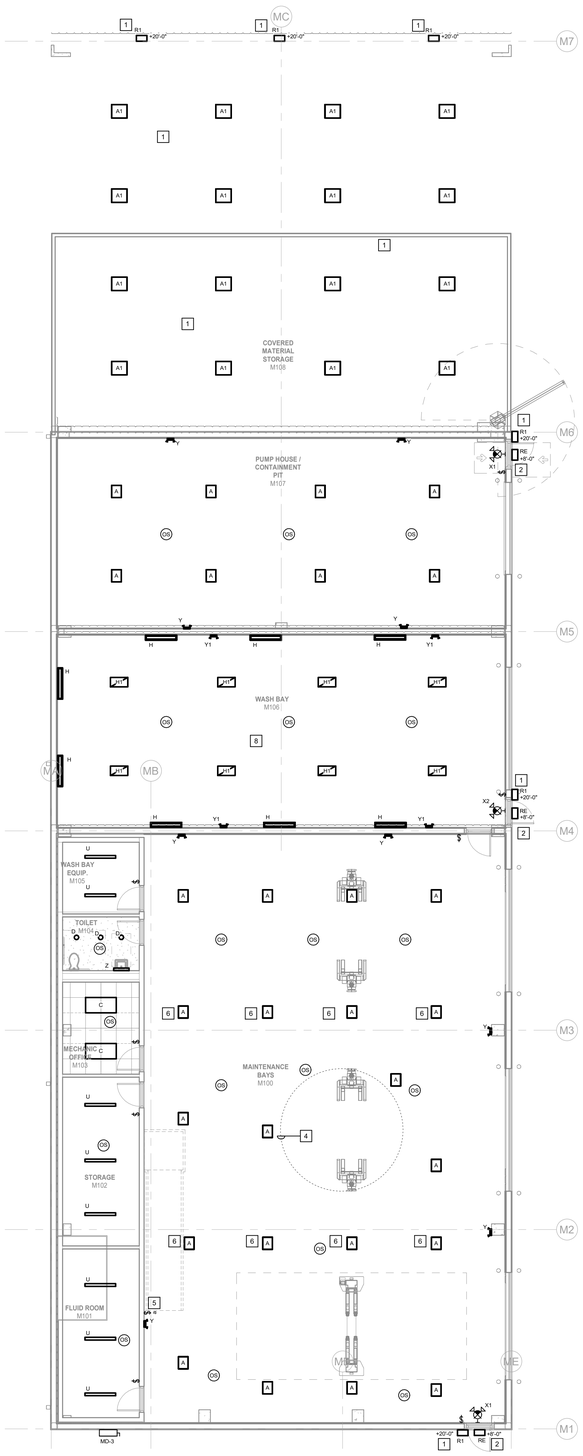

ELECTRICAL LIGHTING PLAN - MAINTENANCE

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

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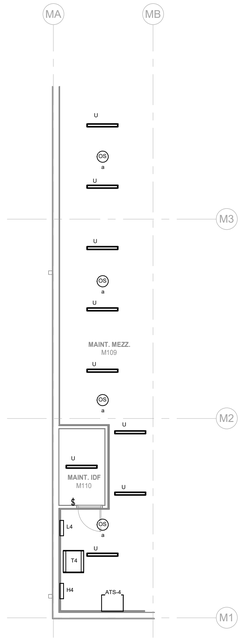

ELECTRICAL LIGHTING PLAN - MAINTENANCE MEZZANINE

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

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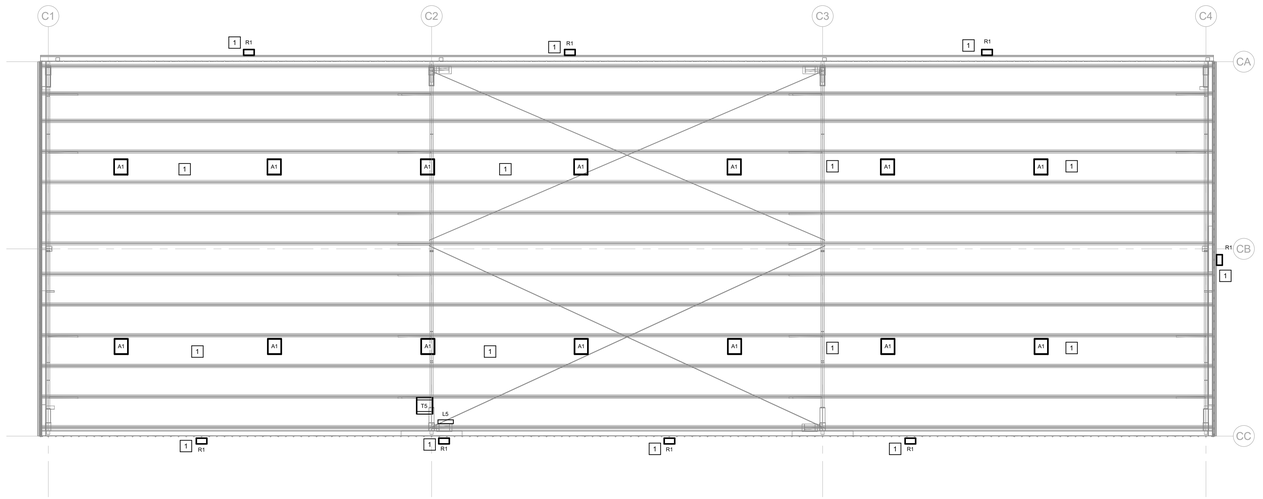

ELECTRICAL LIGHTING PLAN - COVERED STORAGE

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

NORTH

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR LIGHTING CONTROL SCHEMATIC.
3. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR SEISMIC SUPPORTS OF LIGHTING FIXTURES.
4. SUSPENDED CEILING SYSTEMS ARE DESIGNED TO SUPPORT THE WEIGHT OF ALL LIGHTING FIXTURES. THE STRUCTURAL FRAMING SHALL SUPPORT ALL CONDUITS, JUNCTION BOXES, ETC ABOVE CEILINGS.
5. EMERGENCY LIGHTING SHALL BE SWITCHED AND NOT BE USED AS A NIGHT LIGHT. CONNECT EMERGENCY BALLAST VOLTAGE SENSING LEADS AHEAD OF SWITCH LEG OR OTHER CONTROL DEVICE.
6. ALL LIGHTING CIRCUITS ON THIS SHEET TO BE HOMERUN TO PANEL H6A, U.N.O.

ELECTRICAL KEYED NOTES:

1. CONTROL LIGHTING WITH PHOTOCELL PER DETAIL XXX
2. CONTROL LIGHTING WITH PHOTOCELL PER DETAIL XX. PROVIDE UNSWITCHED VOLTAGE SENSING LEADS FROM SAME BRANCH CIRCUIT TO BATTERY BALLAST.
3. PROVIDE LIGHTING CONTROL VIA CEILING MOUNTED OCCUPANCY/VACANCY SENSOR WITH LOCAL SWITCH "OFF"; OVERRIDE. REFER TO LIGHTING CONTROL DETAIL XX.
4. MAINTAIN 2' CLEARANCE BETWEEN LIGHTING FIXTURE AND TIPS OF FAN BLADES.
5. PROVIDE SWITCH FOR OFF OVERRIDE CONTROL OF LIGHTING ON MEZZANINE.
6. MOUNT FIXTURE UNDER PEMB BEAM OR SO THAT FIXTURE IS NOT OBSTRUCTED BY BEAM OR OVERHEAD DOOR.
7. SUSPEND FIXTURES IN THIS ROOM AT 18" BELOW STRUCTURE.
8. ALL DEVICES, FIXTURES, BOXES AND CONDUIT SHALL BE WEATHER PROOF/NEMA 4X RATED.

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E1.3

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ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR LIGHTING CONTROL SCHEMATIC.
3. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR SEISMIC SUPPORTS OF LIGHTING FIXTURES.
4. SUSPENDED CEILING SYSTEMS ARE DESIGNED TO SUPPORT THE WEIGHT OF ALL LIGHTING FIXTURES. THE STRUCTURAL FRAMING SHALL SUPPORT ALL CONDUITS, JUNCTION BOXES, ETC ABOVE CEILINGS.
5. EMERGENCY LIGHTING SHALL BE SWITCHED AND NOT BE USED AS A NIGHT LIGHT. CONNECT EMERGENCY BALLAST VOLTAGE SENSING LEADS AHEAD OF SWITCH LEG OR OTHER CONTROL DEVICE.

ELECTRICAL KEYED NOTES:

1. CONTROL LIGHTING BY PHOTOCELL PER DETAIL N/A ON E0.7
2. CONTROL LIGHTING WITH PHOTOCELL PER DETAIL N/A ON E0.7. PROVIDE UNSWITCHED VOLTAGE SENSING LEADS FROM SAME BRANCH CIRCUIT TO BATTERY BALLAST.
3. PROVIDE WALL SWITCH/DIMMER FOR MANUAL OVERRIDE OF LIGHT FIXTURES AS INDICATED. FIXTURES SHALL BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSOR UPSTREAM OF SWITCH/DIMMER.
4. PROVIDE TYPE F LUMINARIES FOR FLAGPOLE LIGHTING. CONTROL WITH PHOTOCELL PER DETAIL 19 ON E0.7. REFER TO FLOOD LIGHT DETAIL N/A ON SHEET E0.6.

ELECTRICAL LIGHTING PLAN - OFFICE
SCALE: 1/8" = 1'-0"

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ELECTRICAL LIGHTING PLAN - OFFICE

E1.4

SSC JOB# 2025456_NOT FOR CONSTRUCTION

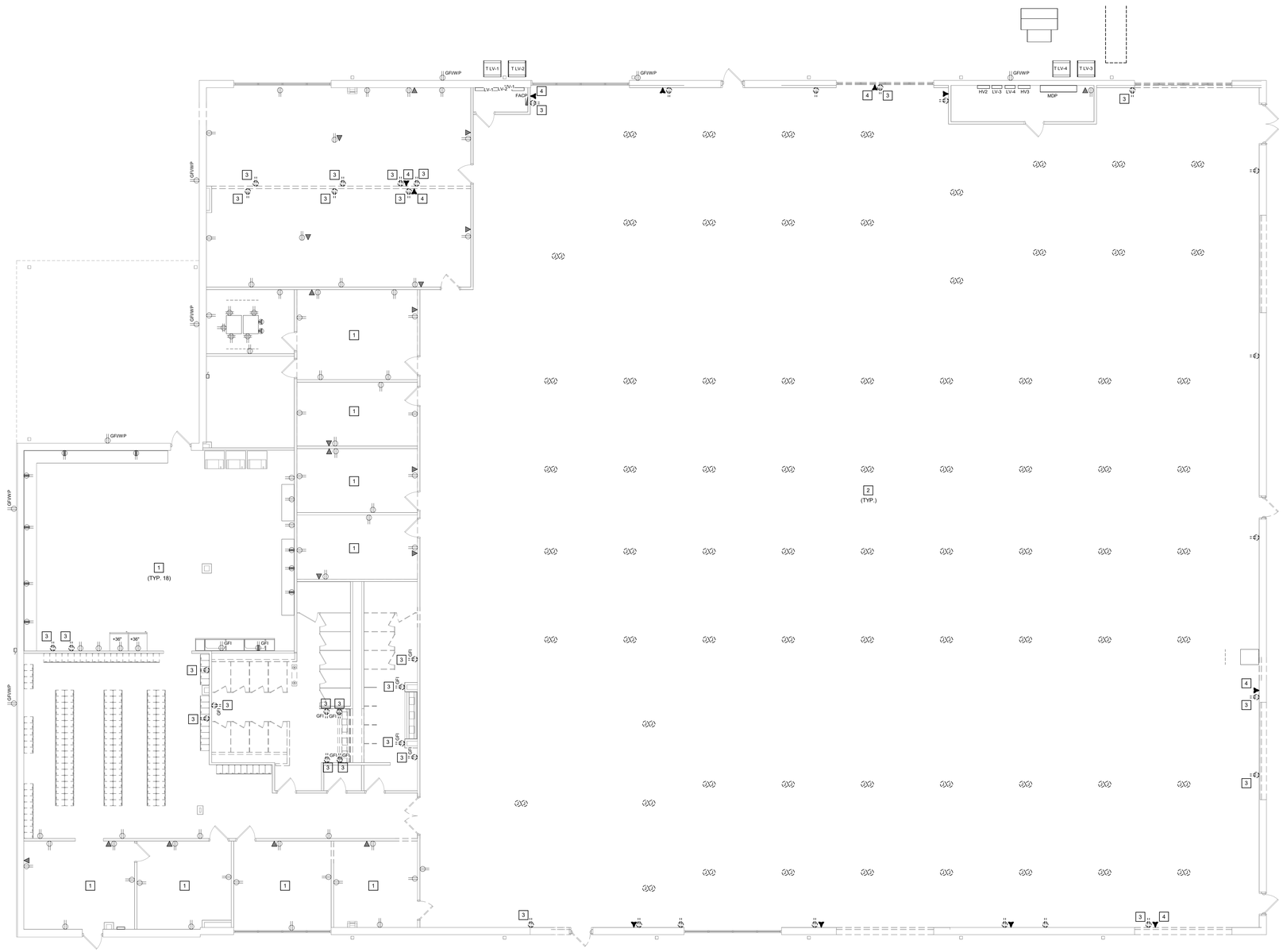
ELECTRICAL DEMOLITION GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES INCLUDING GENERAL DEMOLITION NOTES.
2. EXISTING FIXTURES & DEVICES TO REMAIN ARE INDICATED WITH THIN SOLID LINES; DARK DASHED LINES INDICATE FIXTURES/DEVICES THAT ARE INTENDED TO BE DEMOLISHED.
3. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

ELECTRICAL KEYED NOTES:

1 EXISTING TO REMAIN.

XXXXXXXX



ELECTRICAL DEMO PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
NORTH

M+H ARCHITECTS

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Drawn By:	KWS
Checked By:	JAH

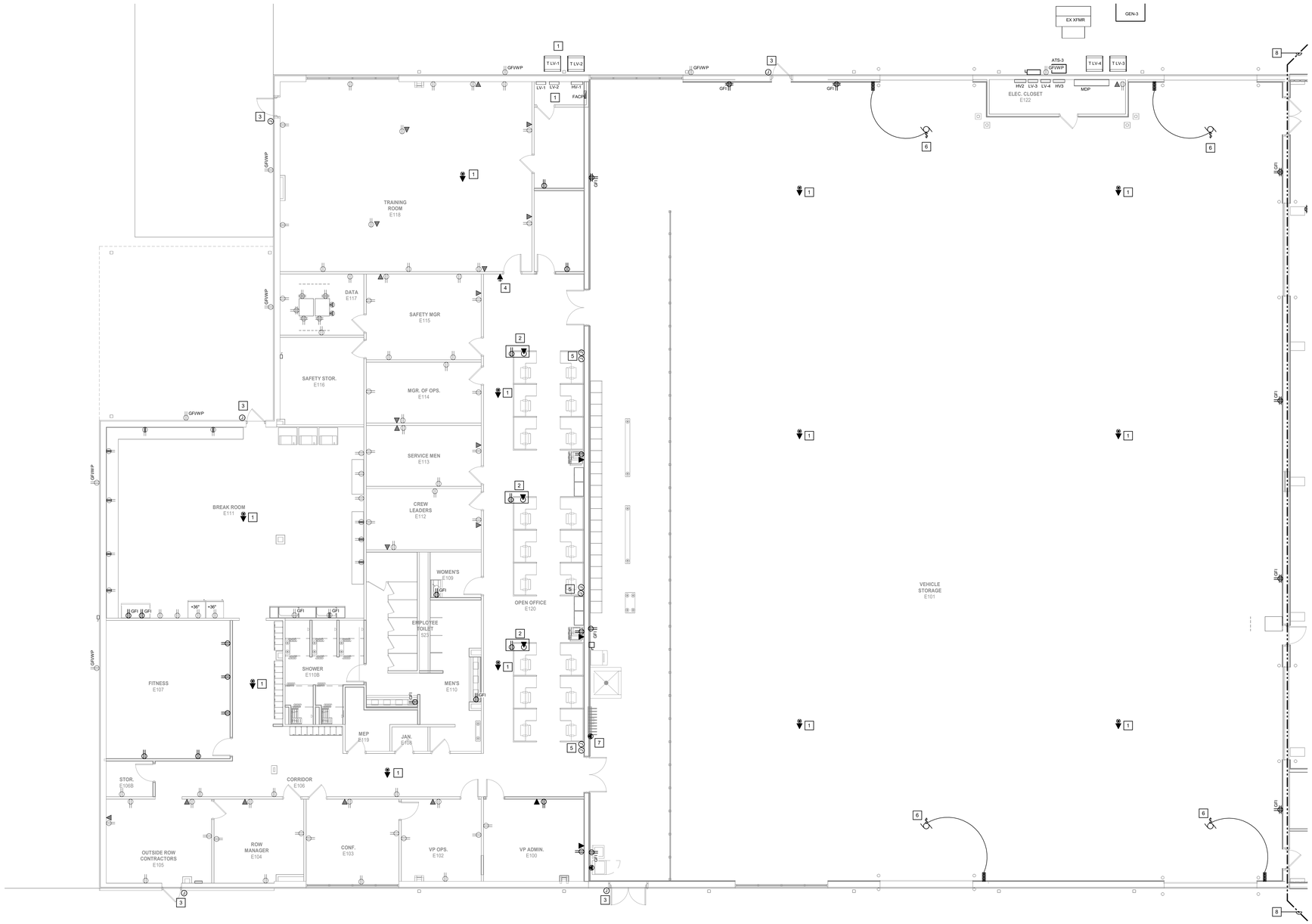
Drawing Title:

ELECTRICAL DEMO PLAN - OPERATIONS

ED2.1

SSC JOB# 2025456_NOT FOR CONSTRUCTION

ALL NEW DATA OUTLETS SHALL HAVE 2 CABLES TERMINATED U.N.O.



ELECTRICAL POWER & DATA PLAN - OPERATIONS

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

NORTH

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.
4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO EXTERIOR MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.
6. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL PHONE AND DATA REQUIREMENTS.
7. CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL FLOOR BOXES AND POKE THROUGHS WITH STRUCTURAL PLANS AND ARCHITECT PRIOR TO INSTALLATION. LOCATION SHALL BE COORDINATED TO AVOID STRUCTURAL ELEMENTS AND MATCH FURNITURE LOCATIONS.
8. ALL HDMI CABLES SHALL BE EQUAL TO EXTRON ULTRA SERIES FOR APPLICATIONS OF 25' AND LESS; ALL APPLICATIONS OF GREATER THAN 25' SHALL BE EXTRON PRO SERIES. MEANS FOR "LOCKING" CABLES IN PLACE SHALL BE UTILIZED AT BOTH ENDS OF THE CABLES. ALL HDMI CABLES SHALL BE INSTALLED IN ADEQUATELY SIZED CONDUIT THROUGH THE CEILING PLENUM. SPECIFICATION GRADE, PLENUM RATED CABLING WILL ALSO BE CONSIDERED IN LIEU OF HORIZONTAL CONDUIT RUNS. ALL APPLICATIONS OVER 75' SHALL BE PROVIDED WITH AN EXTRON HDMI 101 PLUS CABLE EQUALIZER AND ALL RELATED CONNECTIONS AND ACCESSORIES. WALL PLATE SHALL BE EQUAL TO HUBBELL NS801XX. U.N.O.
9. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

ELECTRICAL KEYED NOTES:

1. PROVIDE CEILING MOUNTED DATA OUTLET FOR CLASS 3 WIRELESS ACCESS POINT.
2. PROVIDE RECESSED FLOORBOX WITH POWER, DATA, AND AV DEVICES, CABLES, AND CONNECTIONS. REFER TO 9/E0.5.
3. PROVIDE POWER FOR DOOR HARDWARE. COORDINATE WITH DOOR HARDWARE INSTALLER. SEE ALSO E3.1 FOR ACCESS CONTROL REQUIREMENTS.
4. PROVIDE ROUGH-IN FOR ROOM SCHEDULER. PROVIDE 3/4" CONDUIT TO 2-GANG RECESSED BOX WITH 2-GANG RAISED DEVICE WING WITH ONE (1) CAT 6A CABLE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES. IN AREAS WHERE SCHEDULERS ARE SHOWN ON GLASS WALL, CABLES SHALL BE RAN DOWN THE MULLION OF THE DOOR AND SCHEDULER SHALL BE PROVIDED WITH A MULLION MOUNT.
5. PROVIDE WALL/COLUMN MOUNTED J-BOXES FOR POWER CONNECTIONS TO MODULAR FURNITURE. PROVIDE POWER THROUGH LFMC WHIP WITH 120V BRANCH CIRCUITS WITH DEDICATED NEUTRALS AND EQUIPMENT GROUND. PROVIDE DATA CABLES AS INDICATED THROUGH SPIRAL WRAP AND GROMMETED OPENINGS
6. PROVIDE POWER CONNECTION FOR OVERHEAD DOOR.
7. PROVIDE POWER FOR BOOT DRYER AT THIS LOCATION. POWER CONNECTION SHALL BE NEMA 14-30R, 3 WITH PLUS GROUND (HHNG).
8. EXPANSION JOINT. PROVIDE EXPANSION DEFLECTION FITTING OR OTHER MEANS TO ACCOMMODATE 2" DISPLACEMENT WHERE CONDUITS CROSS JOINT.

M+H ARCHITECTS

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Drawing Title:
ELECTRICAL POWER AND DATA PLAN - OPERATIONS

E2.1

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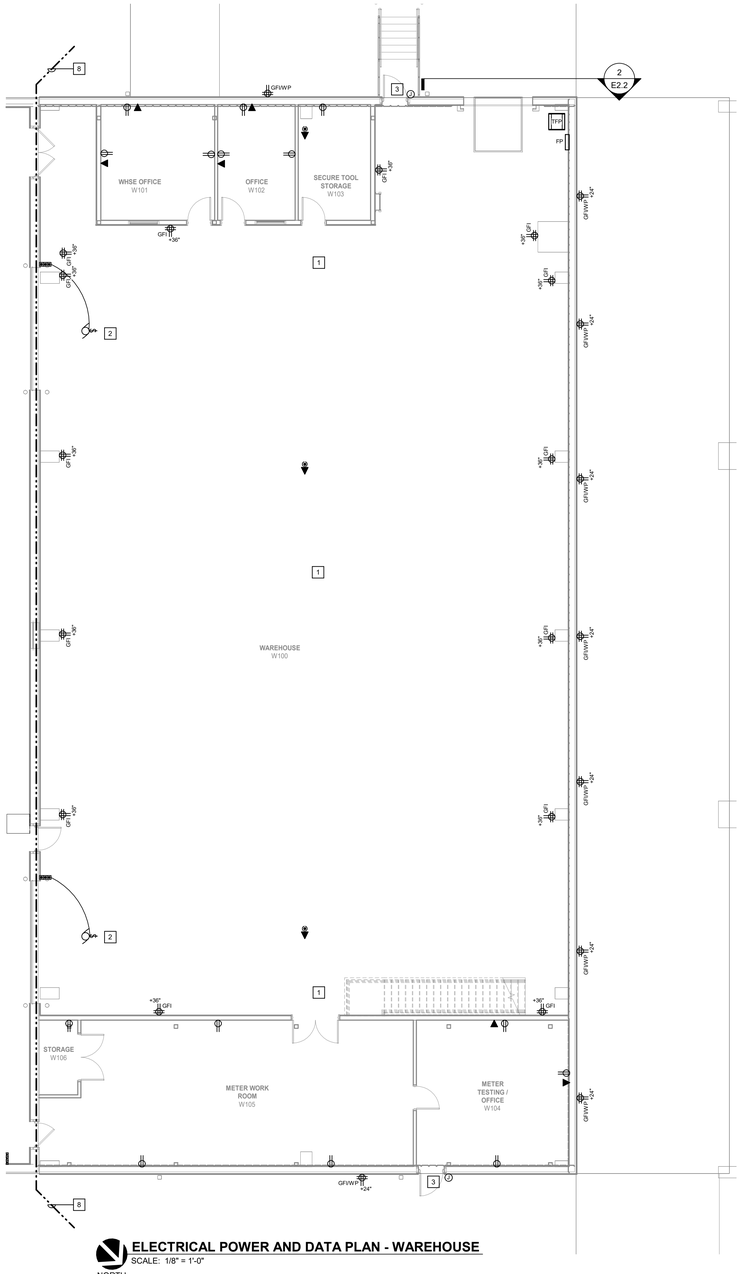
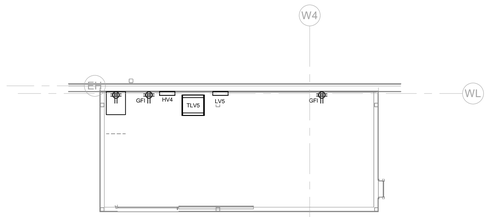
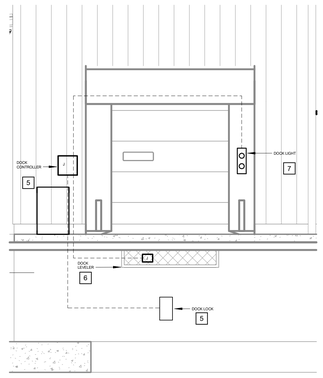
ALL DATA OUTLETS SHALL HAVE 2 CABLES TERMINATED U.N.O.



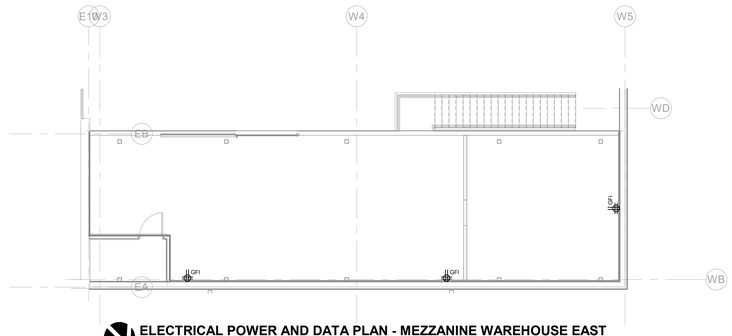
ELECTRICAL POWER AND DATA PLAN - WAREHOUSE
SCALE: 1/8" = 1'-0"
NORTH



ELECTRICAL POWER AND DATA PLAN - MEZZANINE WAREHOUSE WEST
SCALE: 1/8" = 1'-0"
NORTH



2 LOADING DOCK - ELECTRICAL
SCALE: 1/4" = 1'-0"



ELECTRICAL POWER AND DATA PLAN - MEZZANINE WAREHOUSE EAST
SCALE: 1/8" = 1'-0"
NORTH

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.
4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122. SEE SPECIFICATIONS.
5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO EXTERIOR MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.
6. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL PHONE AND DATA REQUIREMENTS.
7. CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL FLOOR BOXES AND POKE THROUGHS WITH STRUCTURAL PLANS AND ARCHITECT PRIOR TO INSTALLATION. LOCATION SHALL BE COORDINATED TO AVOID STRUCTURAL ELEMENTS AND MATCH FURNITURE LOCATIONS.

ELECTRICAL KEYED NOTES:

1. PROVIDE CEILING MOUNTED DATA OUTLET FOR CLASS 3 WIRELESS ACCESS POINT.
2. PROVIDE POWER CONNECTION FOR OVERHEAD DOOR.
3. PROVIDE 120V, 20A POWER CONNECTION ABOVE DOOR FOR DOOR HARDWARE POWER SUPPLY. COORDINATE WITH APPLICABLE TRADES FOR EXACT LOCATION AND REQUIREMENTS. WIRE TO DOOR HARDWARE THROUGH ACCESS CONTROL SYSTEM.
4. PROVIDE POWER FOR DOOR HARDWARE. COORDINATE WITH DOOR HARDWARE INSTALLER. SEE ALSO E3.2 FOR ACCESS CONTROL REQUIREMENTS.
5. PROVIDE 120V, 20A POWER CONNECTION TO DOCK LOCK, OVERHEAD RED/GREEN LIGHT AND DOCK CONTROL ACCESSORIES. REFER TO ARCHITECTURAL PLANS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES.
6. PROVIDE 120V, 20A POWER CONNECTION FOR DOCK LEVELER AND CONTROL STATION. PROVIDE INTERLOCK CABLING BETWEEN CONTROLLER, DOCK LOCK, DOCK LEVELER, AND OVERHEAD DOOR PER MANUFACTURER'S INSTRUCTIONS. REFER TO 14/A9.2. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES.
7. PROVIDE DOCK LIGHT EQUIVALENT TO PHOENIX #DLAW-16-LED-40-42-120. DIRECT CONNECT TO SWITCH FURNISHED WITH DOCK LIGHT ON MOUNTING PLATE.
8. EXPANSION JOINT. PROVIDE EXPANSION DEFLECTION FITTING OR OTHER MEANS TO ACCOMMODATE 2" DISPLACEMENT WHERE CONDUITS CROSS JOINT.

M+H ARCHITECTS

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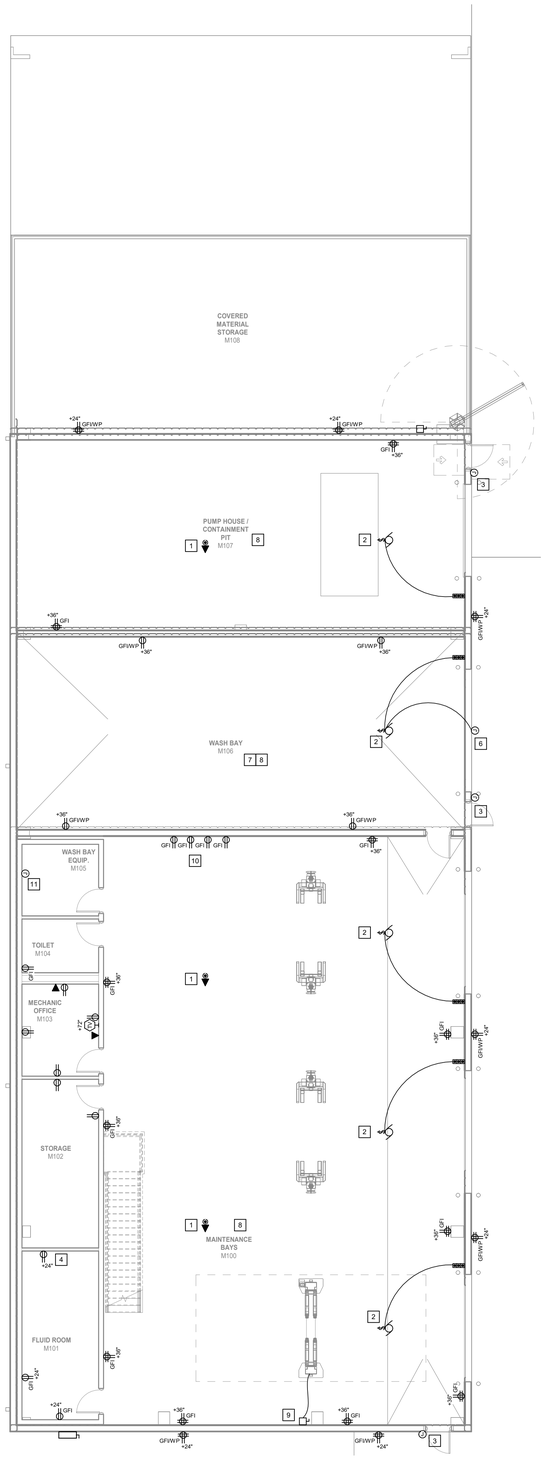
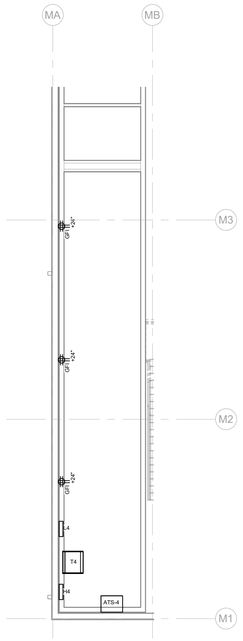
ELECTRICAL POWER AND DATA PLAN - WAREHOUSE

E2.2

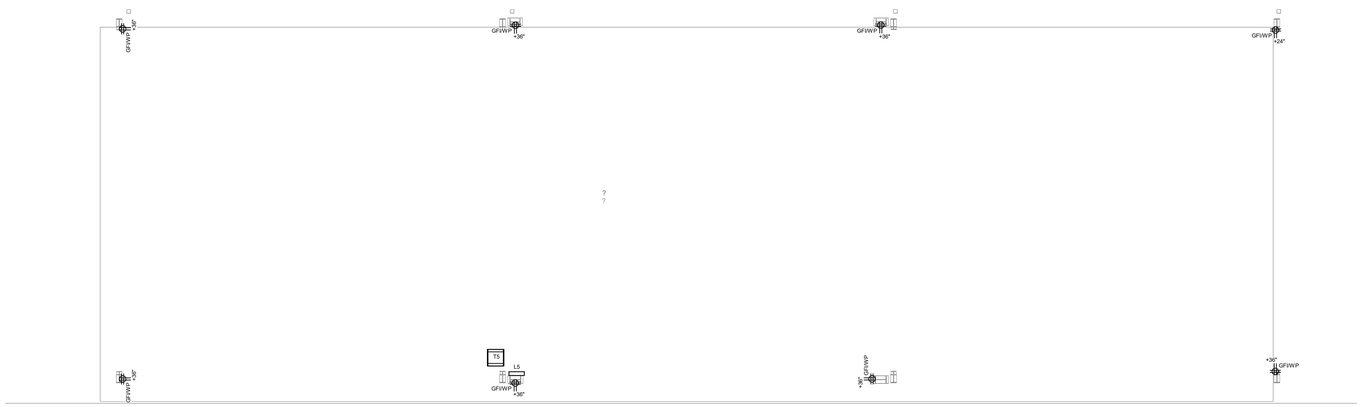
SSC JOB# 2025456_NOT FOR CONSTRUCTION



ELECTRICAL POWER AND DATA PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
NORTH



ELECTRICAL POWER AND DATA PLAN - MAINTENANCE MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH



ELECTRICAL POWER AND DATA PLAN - COVERED STORAGE
SCALE: 1/8" = 1'-0"
NORTH

ALL DATA OUTLETS SHALL HAVE 2 CABLES TERMINATED U.N.O.

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.
4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122. SEE SPECIFICATIONS.
5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO EXTERIOR MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.
6. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL PHONE AND DATA REQUIREMENTS.
7. CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL FLOOR BOXES AND POKE THROUGHS WITH STRUCTURAL PLANS AND ARCHITECT PRIOR TO INSTALLATION. LOCATION SHALL BE COORDINATED TO AVOID STRUCTURAL ELEMENTS AND MATCH FURNITURE LOCATIONS.

ELECTRICAL KEYED NOTES:

1. PROVIDE CEILING MOUNTED DATA OUTLET FOR CLASS 3 WIRELESS ACCESS POINT.
2. PROVIDE POWER CONNECTION FOR OVERHEAD DOOR.
3. PROVIDE 120V, 20A POWER CONNECTION ABOVE DOOR FOR DOOR HARDWARE POWER SUPPLY. COORDINATE WITH APPLICABLE TRADES FOR EXACT LOCATION AND REQUIREMENTS. WIRE TO DOOR HARDWARE THROUGH ACCESS CONTROL SYSTEM.
4. PROVIDE POWER CONNECTION FOR AIR DRYER, COORDINATE EXACT LOCATION WITH MC.
5. PROVIDE DUPLEX RECEPTACLE, DATA CONNECTIONS IN WALL FOR TV. MOUNT PROVIDED BY OTHERS.
6. PROVIDE LOW VOLTAGE WIRING BETWEEN OVERHEAD DOOR SUPPLIER FURNISHED, CONTRACTOR INSTALLED MICROWAVE SENSOR, EQUIVALENT TO LIFTMASTER 50-HERK2 AND MOTOR OPERATOR. INSTALL SENSOR ON EXTERIOR WALL ABOVE DOOR TO OPERATE DOOR UPON VEHICLE MOTION AND AIM UNDER DIRECTION OF OWNER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES AND DOOR SUPPLIER.
7. ALL DEVICES IN THIS AREA SHALL HAVE NEMA 4X COVERS.
8. ALL RECEPTACLES WITHIN ROOM SHALL HAVE GFCI PROTECTION, WHERE INSTANCES OF GFCI RECEPTACLE IS NOT APPLICABLE OR READILY ACCESSIBLE PROVIDE GFCI CIRCUIT BREAKER.
9. PROVIDE POWER CONNECTION TO VEHICLE LIFT AS INDICATED. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES.
10. PROVIDE DEDICATED RECEPTACLES FOR PORTABLE LIFT CHARGING STATIONS. PROVIDE LABELS ON COVER PLATE "PORTABLE LIFT CHARGER".
11. PROVIDE DEDICATED POWER CONNECTION TO WASHBAY AERATOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES.

M+H ARCHITECTS

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ELECTRICAL POWER AND DATA PLAN - MAINTENANCE AND COVERED STORAGE

E2.3

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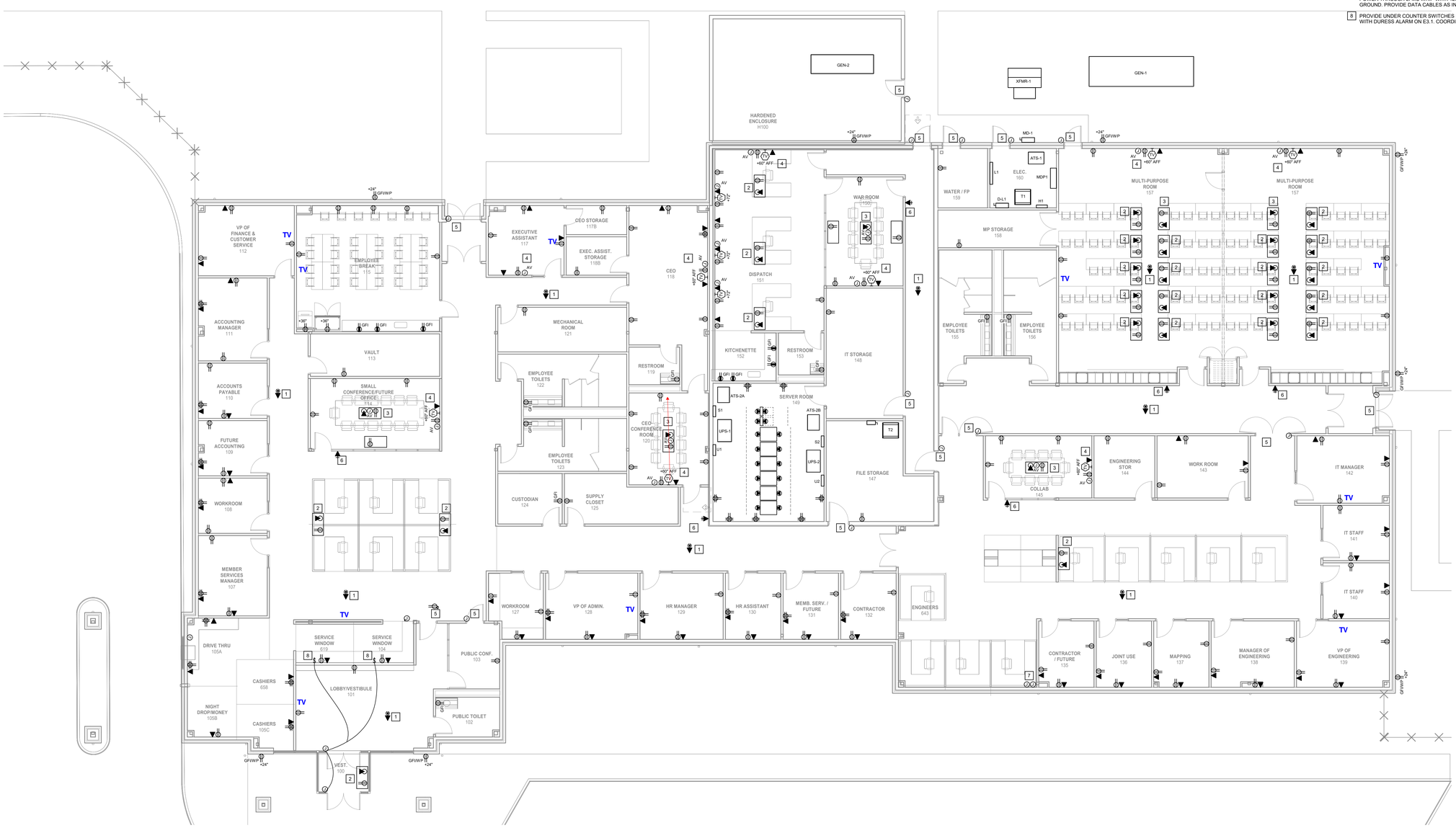
ALL DATA OUTLETS SHALL HAVE 2 CABLES TERMINATED U.N.O.

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.
4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO EXTERIOR MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.
6. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL PHONE AND DATA REQUIREMENTS.
7. CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL FLOOR BOXES AND POKE THROUGHS WITH STRUCTURAL PLANS AND ARCHITECT PRIOR TO INSTALLATION. LOCATION SHALL BE COORDINATED TO AVOID STRUCTURAL ELEMENTS AND MATCH FURNITURE LOCATIONS.

ELECTRICAL KEYED NOTES:

1. PROVIDE CEILING MOUNTED DATA OUTLET FOR CLASS 3 WIRELESS ACCESS POINT.
2. PROVIDE RECESSED FLOORBOX WITH POWER, DATA, AND AV DEVICES, CABLES, AND CONNECTIONS. REFER TO 9/E0.5.
3. PROVIDE DUPLEX RECEPTACLE, DATA, AND AV CONNECTIONS IN WALL FOR TV WITH AV CONNECTIONS AT DESK OR FLOORBOXES. MOUNT PROVIDED BY OTHERS. REFER TO 28/E0.5.
4. PROVIDE DUPLEX RECEPTACLE AND DATA CONNECTIONS IN WALL FOR TV. MOUNT PROVIDED BY OTHERS. REFER TO 27/E0.5.
5. PROVIDE POWER FOR DOOR HARDWARE. COORDINATE WITH DOOR HARDWARE INSTALLER. SEE ALSO E3.1 FOR ACCESS CONTROL REQUIREMENTS.
6. PROVIDE ROUGH-IN FOR ROOM SCHEDULER. PROVIDE 3/4" CONDUIT TO 2-GANG RECESSED BOX WITH 2-GANG RAISED DEVICE WING WITH ONE (1) CAT 6A CABLE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES. IN AREAS WHERE SCHEDULERS ARE SHOWN ON GLASS WALL, CABLES SHALL BE RAN DOWN THE MULLION OF THE DOOR AND SCHEDULER SHALL BE PROVIDED WITH A MULLION MOUNT.
7. PROVIDE WALL/COLUMN MOUNTED J-BOXES FOR POWER CONNECTIONS TO MODULAR FURNITURE. PROVIDE POWER THROUGH LFMC WHIP WITH 120V BRANCH CIRCUITS WITH DEDICATED NEUTRALS AND EQUIPMENT GROUND. PROVIDE DATA CABLES AS INDICATED THROUGH SPIRAL WRAP AND GROMMETED OPENINGS
8. PROVIDE UNDER COUNTER SWITCHES FOR REMOTE LOCKING OPERATION FOR VESTIBULE. TIE TOGETHER WITH DURESS ALARM ON E3.1. COORDINATE WITH APPLICABLE TRADES.



ELECTRICAL FLOOR POWER AND DATA PLAN - OFFICE
SCALE: 1/8" = 1'-0"
NORTH

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ELECTRICAL POWER AND DATA PLAN - OFFICE

E2.4

SSC JOB# 2025456_NOT FOR CONSTRUCTION

ELECTRICAL GENERAL NOTES:

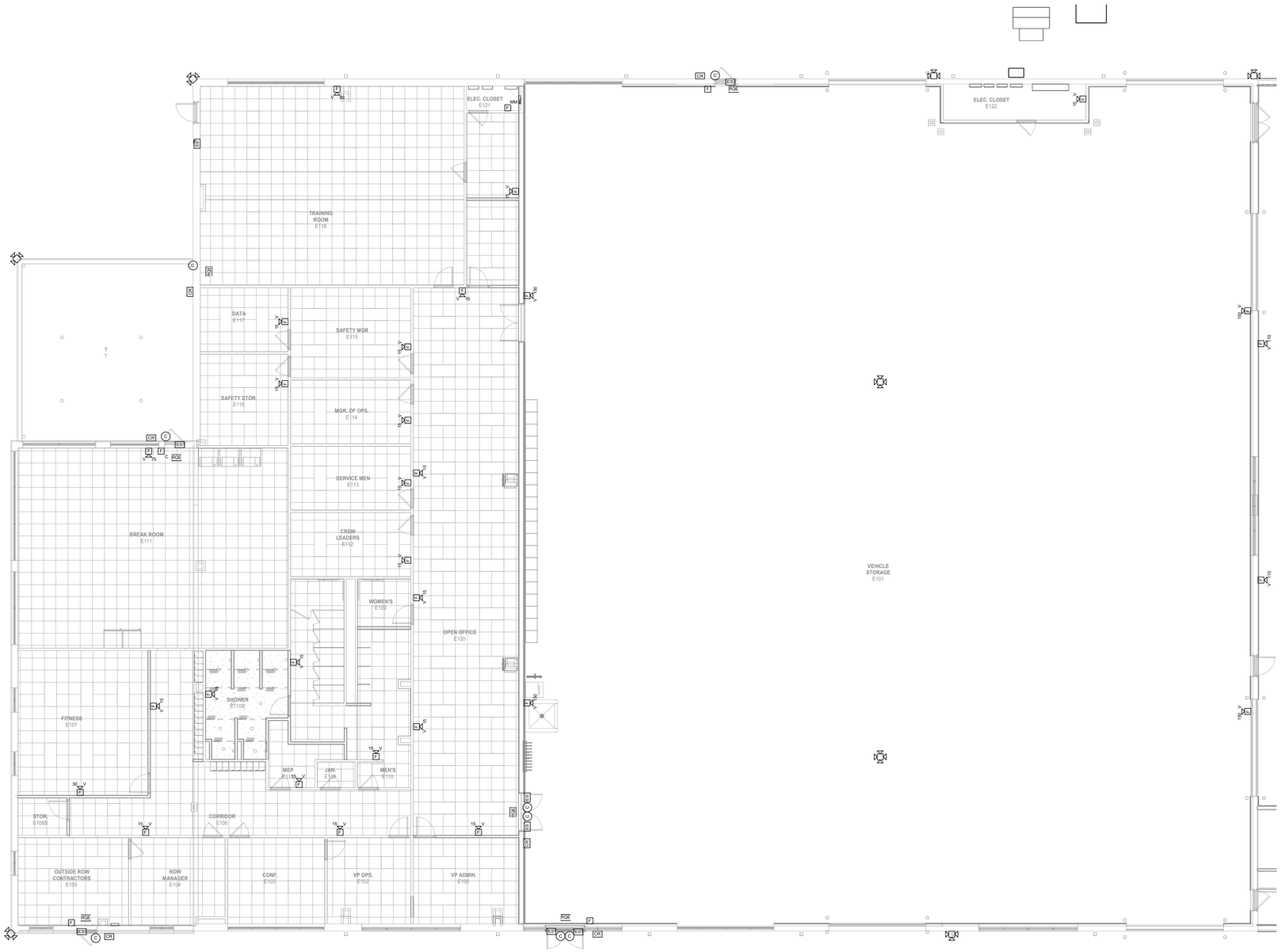
1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THAT CONTRACTOR'S EXPENSE.
3. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL ACCESS CONTROL, SECURITY & VIDEO SURVEILLANCE REQUIREMENTS.
4. PROVIDE 120V POWER AND LOW VOLTAGE ROUGH-IN'S FOR DOOR ACCESS CONTROL AND SECURITY DEVICES AS REQUIRED. COORDINATE WITH APPLICABLE TRADES. REFER TO DOOR HARDWARE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. [INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.]
6. [CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.]
7. [THE FA CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FA SHOP DRAWINGS AS OUTLINED IN THE ELECTRICAL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO WIRING DIAGRAMS, BATTERY CALCULATIONS, FINAL DEVICE LAYOUT, ETC.

ELECTRICAL KEYED NOTES:

1 REFER TO DETAILS ON E0.7 FOR ACCESS CONTROL DEVICES, BOXES, CONDUITS AND CABLES.

2 PROVIDE PENDANT MOUNTING KIT FOR FIRE ALARM DEVICE IN AREA WITH HIGH CEILINGS.

3 PROVIDE CONTROL MODULE FOR SHUT DOWN OF DESTRATIFICATION FAN ON ALARM.



ELECTRICAL FIRE ALARM & SECURITY PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
NORTH

M+H ARCHITECTS

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ELECTRICAL FIRE ALARM AND SECURITY PLAN - OPERATIONS

E3.1

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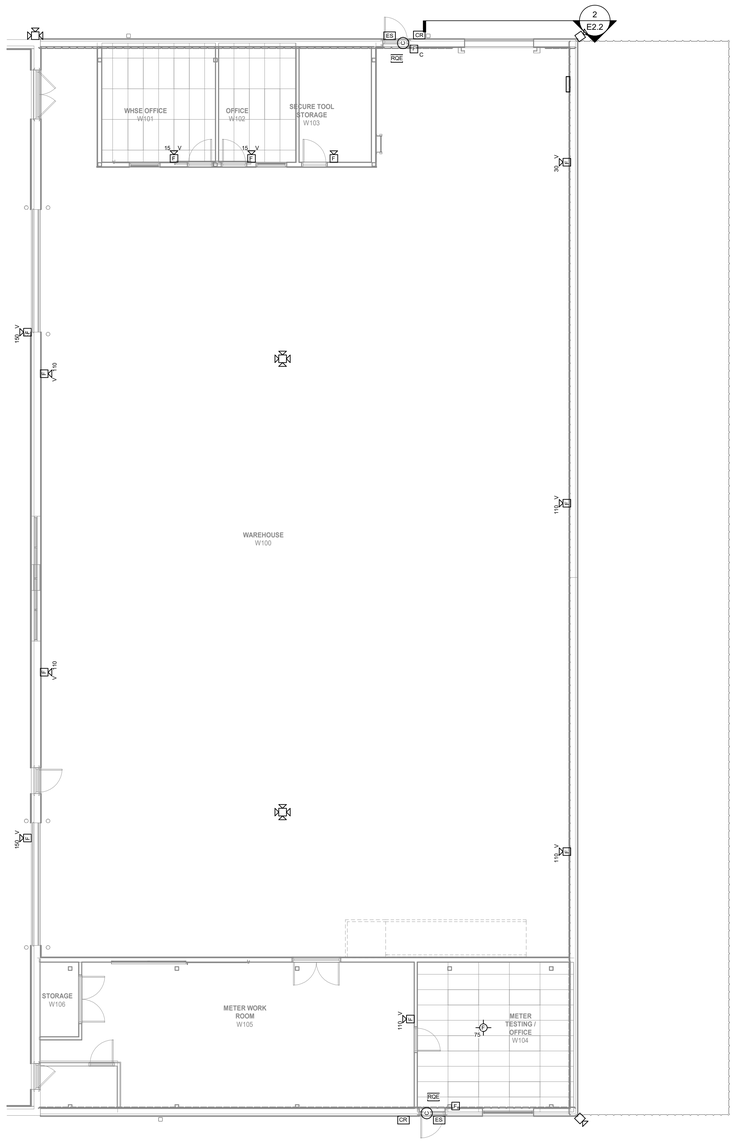

ELECTRICAL FIRE ALARM & SECURITY PLAN - WAREHOUSE
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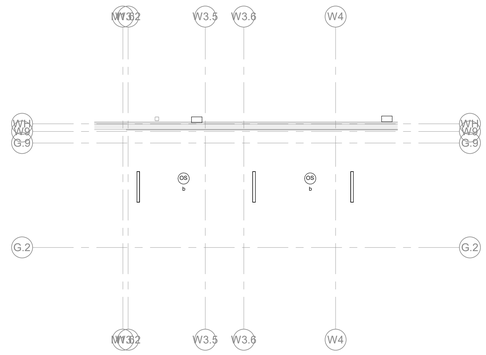
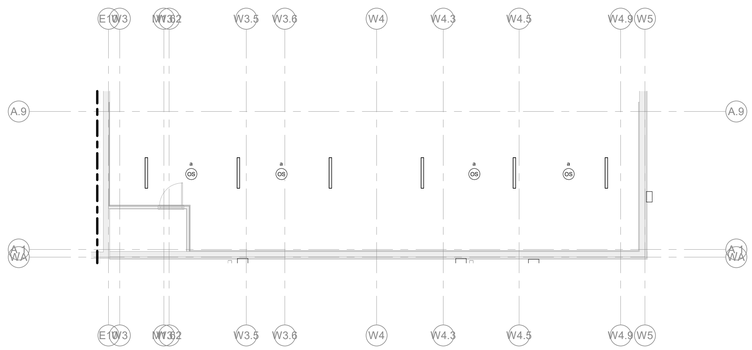
NORTH



ELECTRICAL FIRE ALARM & SECURITY PLAN - WAREHOUSE WEST MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH



ELECTRICAL FIRE ALARM & SECURITY PLAN - WAREHOUSE EAST MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THAT CONTRACTOR'S EXPENSE.
3. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL ACCESS CONTROL, SECURITY & VIDEO SURVEILLANCE REQUIREMENTS.
4. PROVIDE 120V POWER AND LOW VOLTAGE ROUGH-IN'S FOR DOOR ACCESS CONTROL AND SECURITY DEVICES AS REQUIRED. COORDINATE WITH APPLICABLE TRADES. REFER TO DOOR HARDWARE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE FA CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FA SHOP DRAWINGS AS OUTLINED IN THE ELECTRICAL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO WIRING DIAGRAMS, BATTERY CALCULATIONS, FINAL DEVICE LAYOUT, ETC.

ELECTRICAL KEYED NOTES:

1. REFER TO DETAILS ON E0.7 FOR ACCESS CONTROL DEVICES, BOXES, CONDUITS AND CABLES.
2. PROVIDE PENDANT MOUNTING KIT FOR FIRE ALARM DEVICE IN AREA WITH HIGH CEILINGS.
3. PROVIDE CONTROL MODULE FOR SHUT DOWN OF DESTRATIFICATION FAN ON ALARM.

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ELECTRICAL FIRE ALARM AND SECURITY PLAN - WAREHOUSE

E3.2

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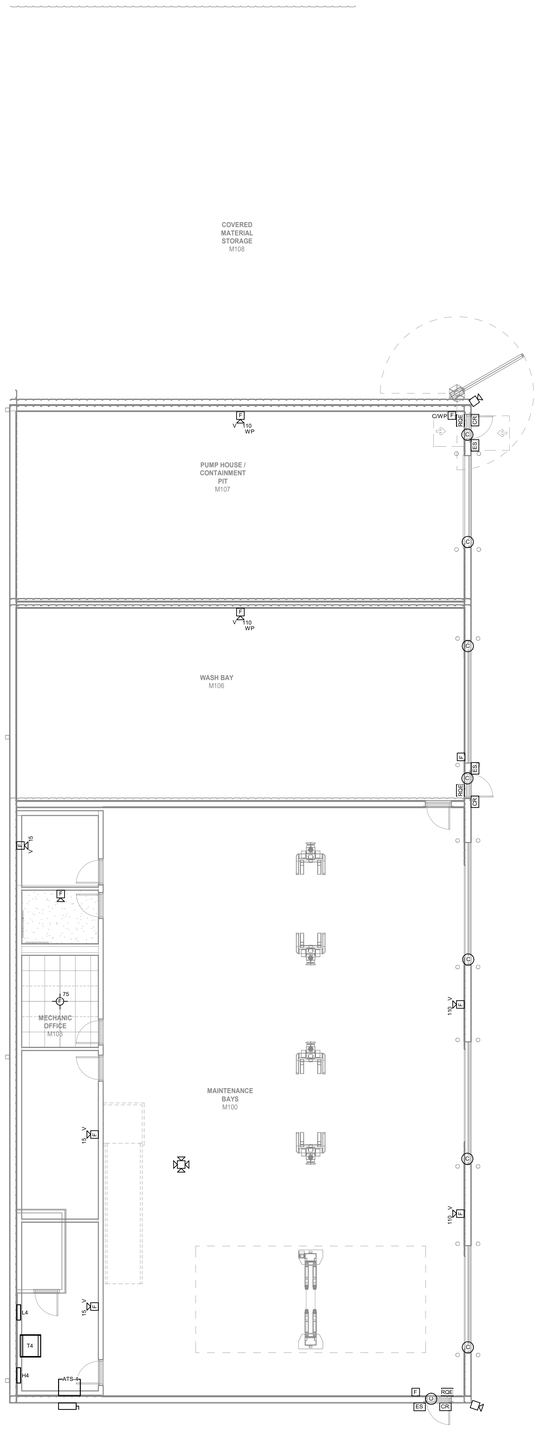

ELECTRICAL FIRE ALARM & SECURITY PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
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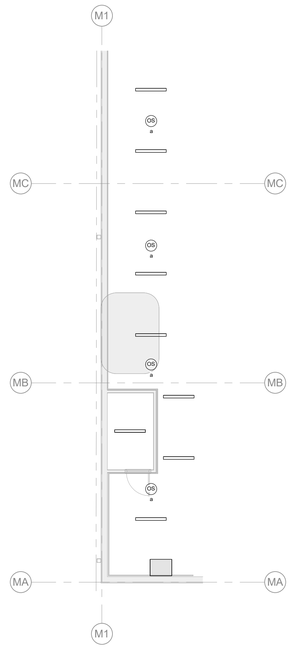

ELECTRICAL FIRE ALARM & SECURITY PLAN - MAINTENANCE WEST MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH

ELECTRICAL FIRE ALARM & SECURITY PLAN - COVERED STORAGE
SCALE: 1/8" = 1'-0"
NORTH

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THAT CONTRACTOR'S EXPENSE.

3. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL ACCESS CONTROL, SECURITY & VIDEO SURVEILLANCE REQUIREMENTS.

4. PROVIDE 120V POWER AND LOW VOLTAGE ROUGH-INS FOR DOOR ACCESS CONTROL AND SECURITY DEVICES AS REQUIRED. COORDINATE WITH APPLICABLE TRADES. REFER TO DOOR HARDWARE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

5. THE FA CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FA SHOP DRAWINGS AS OUTLINED IN THE ELECTRICAL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO WIRING DIAGRAMS, BATTERY CALCULATIONS, FINAL DEVICE LAYOUT, ETC.

ELECTRICAL KEYED NOTES:

1 PROVIDE PENDANT MOUNTING KIT FOR FIRE ALARM DEVICE IN AREA WITH HIGH CEILINGS.

2 PROVIDE CONTROL MODULE FOR SHUT DOWN OF DESTRATIFICATION FAN ON ALARM.

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Drawi ELECTRICAL FIRE ALARM AND SECURITY PLAN - MAINTENANCE AND COVERED STORAGE

E3.3

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ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THAT CONTRACTOR'S EXPENSE.
3. REFER TO ELECTRICAL DETAILS SHEET(S) FOR ADDITIONAL ACCESS CONTROL, SECURITY & VIDEO SURVEILLANCE REQUIREMENTS.
4. PROVIDE 120V POWER AND LOW VOLTAGE ROUGH-IN'S FOR DOOR ACCESS CONTROL AND SECURITY DEVICES AS REQUIRED. COORDINATE WITH APPLICABLE TRADES. REFER TO DOOR HARDWARE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. [INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.]
6. [CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.]
7. [THE FA CONTRACTOR SHALL PROVIDE SIGNED AND SEALED FA SHOP DRAWINGS AS OUTLINED IN THE ELECTRICAL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO WIRING DIAGRAMS, BATTERY CALCULATIONS, FINAL DEVICE LAYOUT, ETC.

ELECTRICAL KEYED NOTES:

1. REFER TO DETAILS ON E0.7 AND E0.8 FOR ACCESS CONTROL DEVICES, BOXES, CONDUITS AND CABLES.
2. PROVIDE CONTROL PANEL OF BURGLAR ALARM SYSTEM.
3. PROVIDE PENDANT MOUNTING KIT FOR FIRE ALARM DEVICE IN AREA WITH HIGH CEILINGS.
4. PROVIDE FIRE ALARM MONITORING MODULE AT KITCHEN HOOD TO MONITOR EXTINGUISHANT DISCHARGE.
5. PROVIDE FIRE ALARM MONITORING MODULES AT CLEAN AGENT RELEASE PANEL TO MONITOR SYSTEM ALARM, TROUBLE, AND SUPERVISORY CONDITIONS.
6. ACCESS CONTROL DOOR. REFER TO DETAILS ON E0.7 FOR ACCESS CONTROL DEVICES, BOXES, CONDUITS AND CABLES.

ELECTRICAL FIRE ALARM & SECURITY PLAN - OFFICE
SCALE: 1/8" = 1'-0"
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ELECTRICAL FIRE ALARM AND SECURITY PLAN - OFFICE

E3.4

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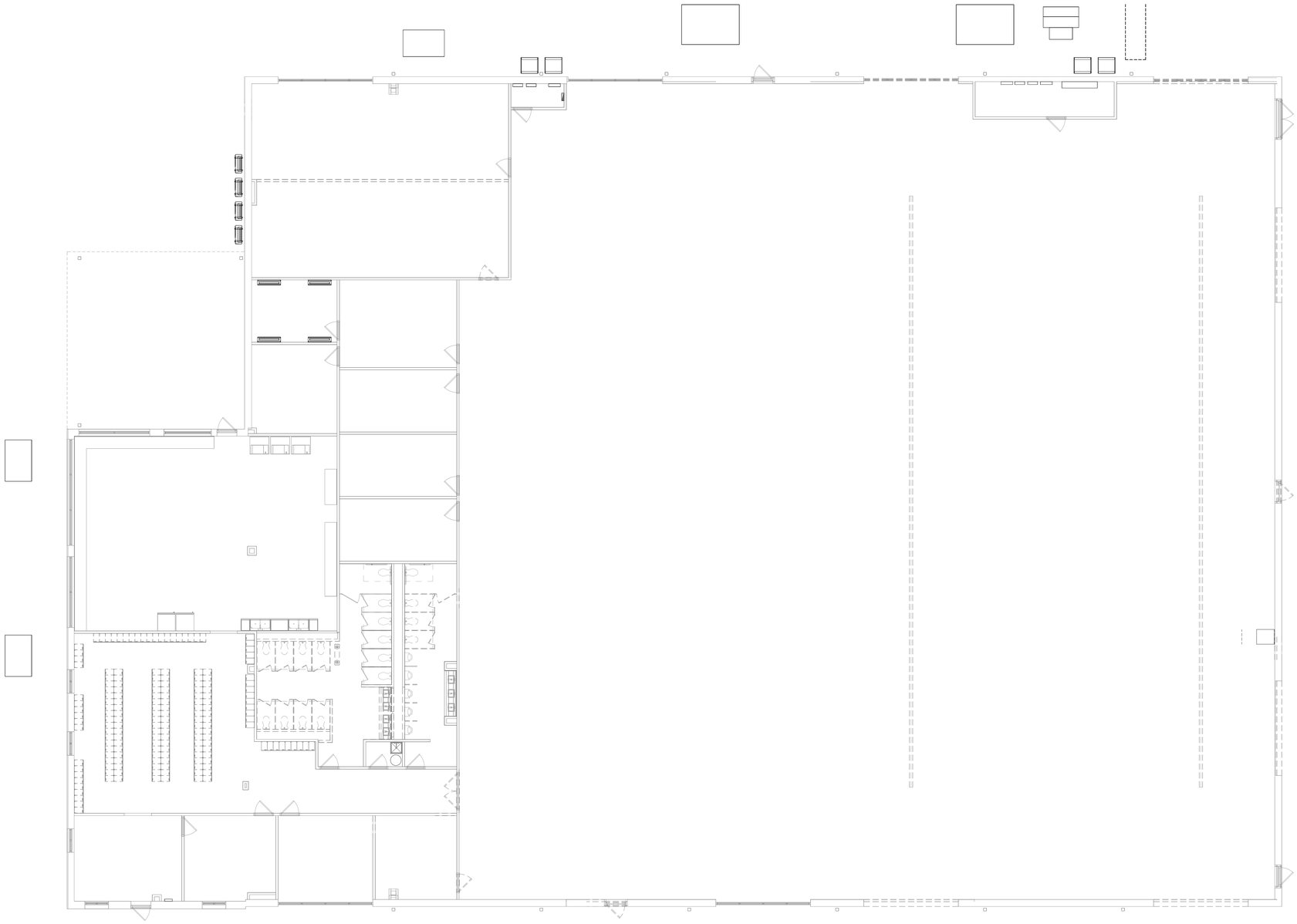

ELECTRICAL EQUIPMENT DEMOLITION PLAN - VEHICLE STORAGE
SCALE: 1/8" = 1'-0"

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ELECTRICAL EQUIPMENT DEMOLITION PLAN - OPERATIONS

ED4.1

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ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS TO ANY OF THE ABOVE SHALL BE AT THAT CONTRACTOR'S EXPENSE.

3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.

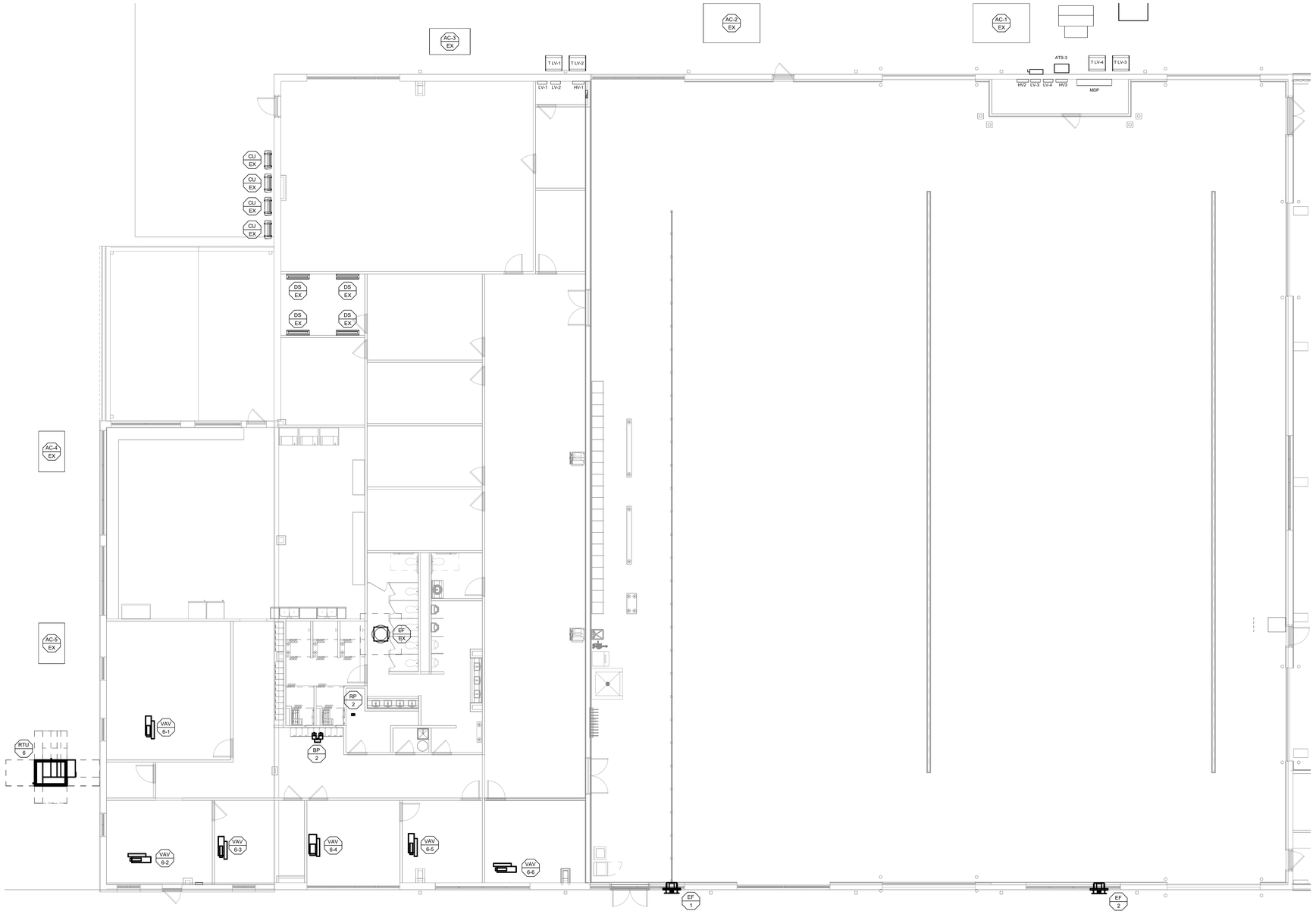
4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122. SEE SPECIFICATIONS.

5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.

ELECTRICAL KEYED NOTES:

1 PROVIDE POWER CONNECTION TO EQUIPMENT AS INDICATED.

2 INDOOR UNIT POWERED BY OUTDOOR UNIT. COORDINATE WITH MC.



ELECTRICAL EQUIPMENT PLAN - VEHICLE STORAGE
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ELECTRICAL EQUIPMENT PLAN - OPERATIONS

E4.1

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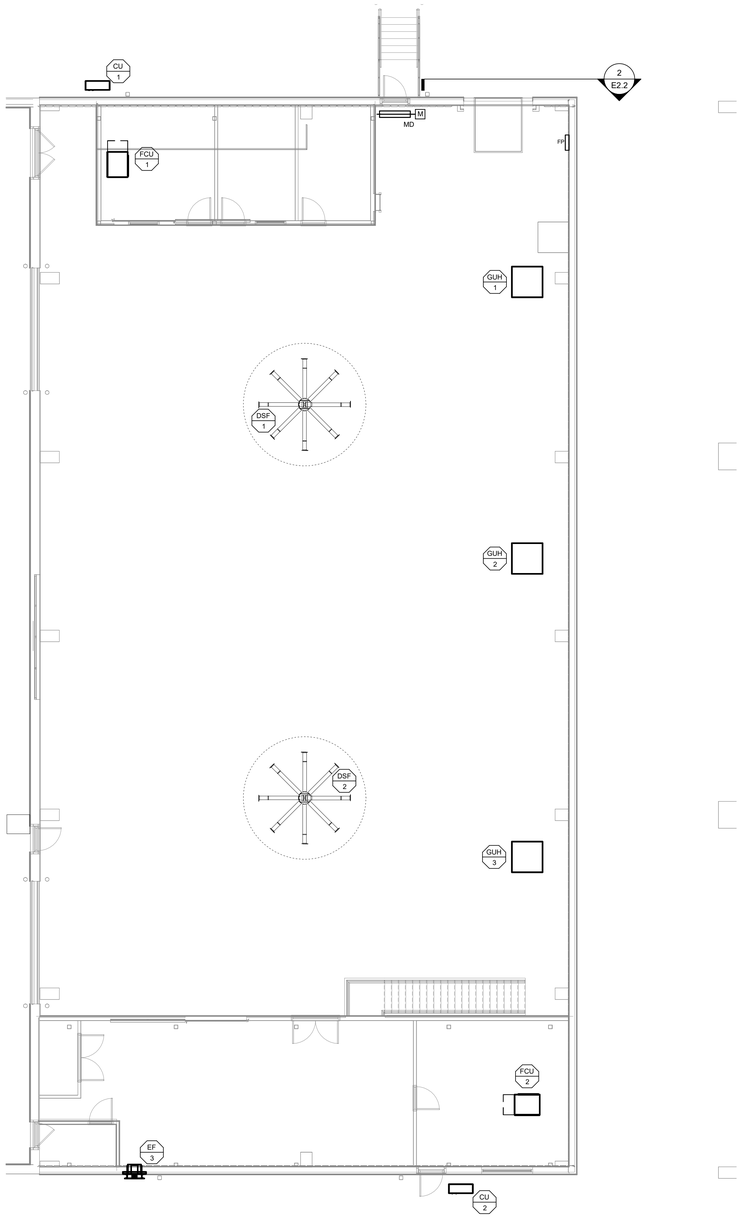

SSC FIRST FLOOR EQUIPMENT PLAN - WAREHOUSE
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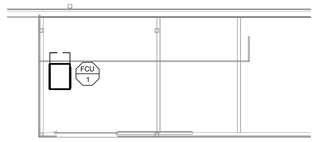

ELECTRICAL EQUIPMENT - WAREHOUSE WEST MEZZANINE
SCALE: 1/8" = 1'-0"
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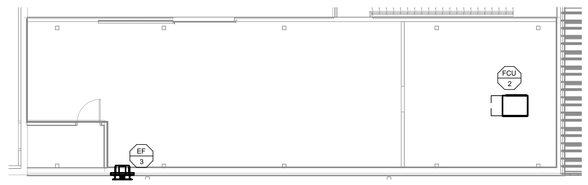

ELECTRICAL EQUIPMENT - WAREHOUSE EAST MEZZANINE
SCALE: 1/8" = 1'-0"
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ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS TO ANY OF THE ABOVE SHALL BE AT THAT CONTRACTOR'S EXPENSE.

3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.

4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.

5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.

ELECTRICAL KEYED NOTES:

1 PROVIDE POWER CONNECTION TO EQUIPMENT AS INDICATED.

2 PROVIDE 120V TO MD THROUGH TCC PROVIDE RELAY TO INTERLOCK MD-1 WITH EF-5 SO THAT DAMPER IS OPEN WHEN EF-5 IS ON AND CLOSED WHEN EF-5 IS OFF. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES. REFER TO DETAIL 7 ON SHEET XX.

3 PROVIDE 120V TO MD THROUGH TCC PROVIDE RELAY TO INTERLOCK MD-2 WITH EF-6 SO THAT DAMPER IS OPEN WHEN EF-6 IS ON AND CLOSED WHEN EF-6 IS OFF. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH APPLICABLE TRADES. REFER TO DETAIL 7 ON SHEET XX.

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ELECTRICAL EQUIPMENT PLAN - WAREHOUSE

E4.2

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ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS TO ANY OF THE ABOVE SHALL BE AT THAT CONTRACTOR'S EXPENSE.

3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.

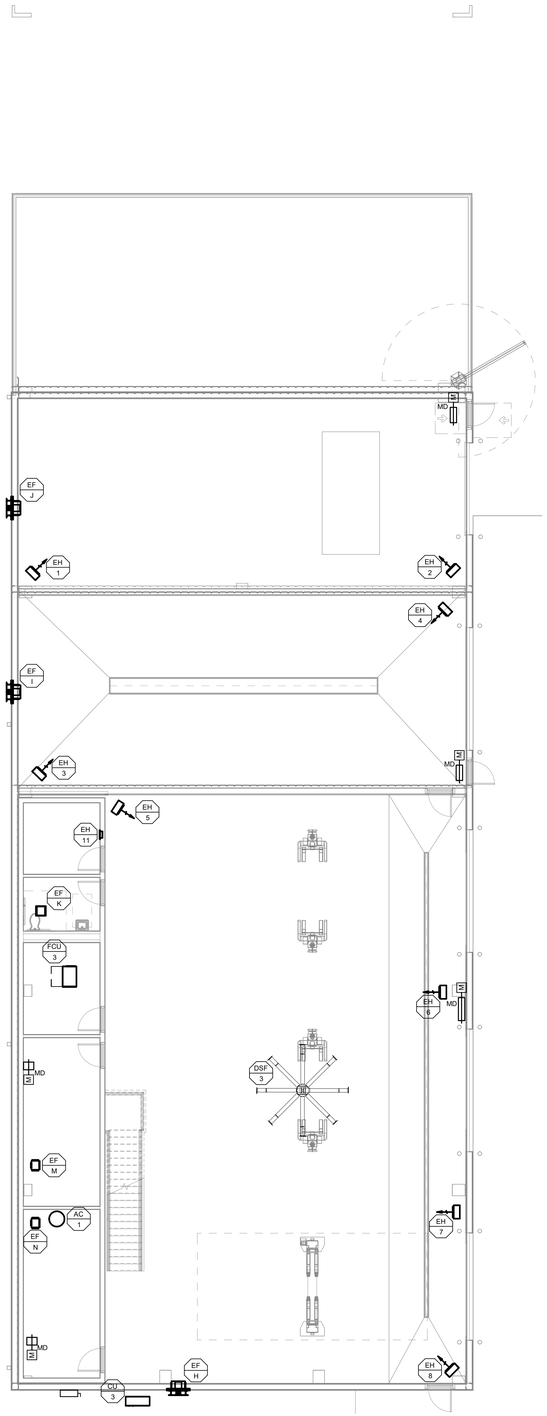
4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122. SEE SPECIFICATIONS.

5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.

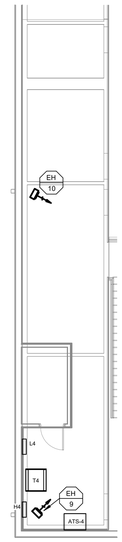
ELECTRICAL KEYED NOTES:

1 PROVIDE POWER CONNECTION TO EQUIPMENT AS INDICATED.

2 INDOOR UNIT POWERED BY OUTDOOR UNIT. COORDINATE WITH MC.



SSC FIRST FLOOR EQUIPMENT PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
NORTH



ELECTRICAL EQUIPMENT PLAN - MAINTENANCE MEZZANINE
SCALE: 1/8" = 1'-0"
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SSC FIRST FLOOR EQUIPMENT PLAN - COVERED VEHICLE STORAGE
SCALE: 1/8" = 1'-0"
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ELECTRICAL EQUIPMENT PLAN - MAINTENANCE AND COVERED STORAGE

E4.3

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ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS TO ANY OF THE ABOVE SHALL BE AT THAT CONTRACTOR'S EXPENSE.

3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.

4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122. SEE SPECIFICATIONS.

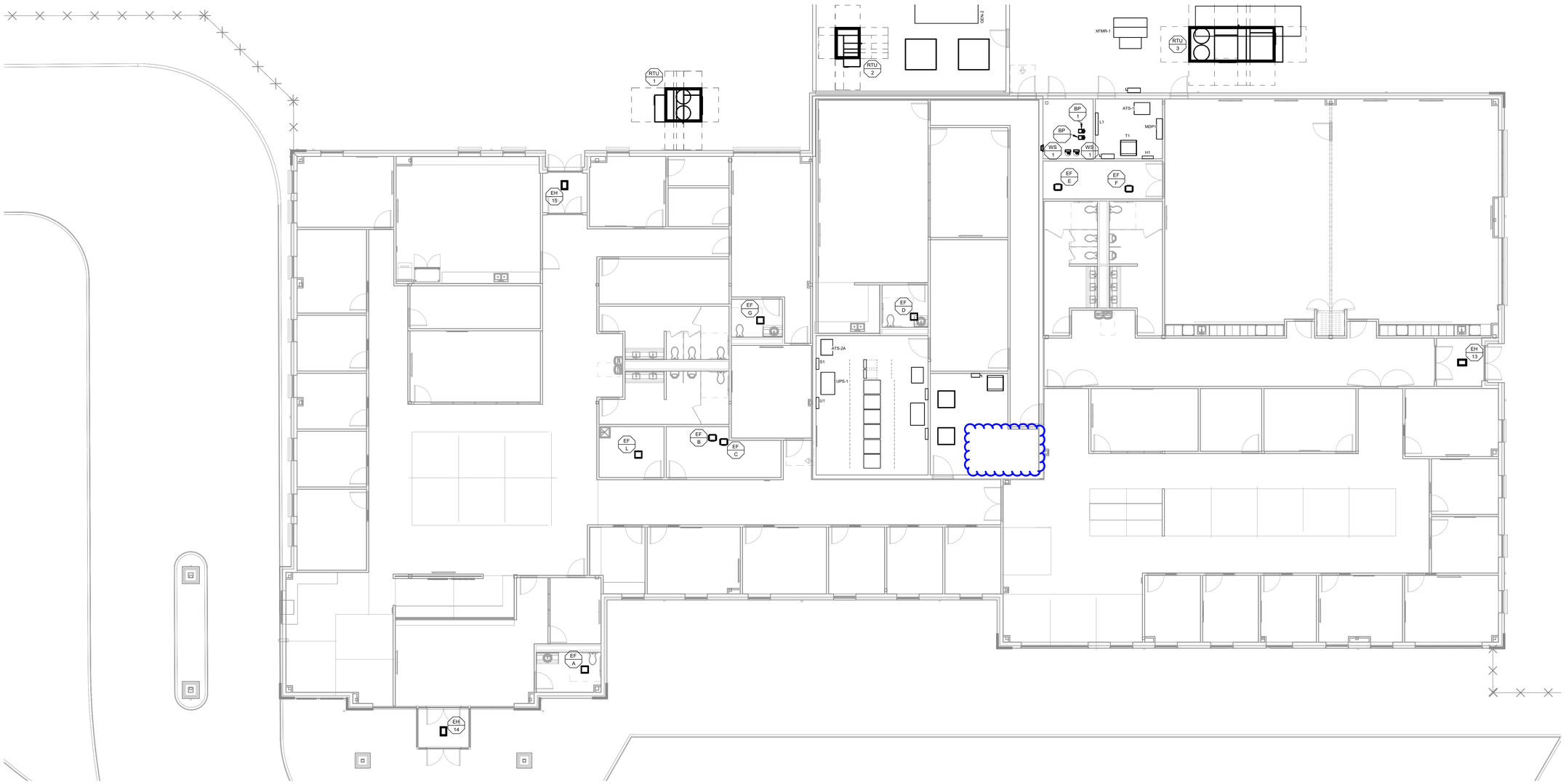
5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.

ELECTRICAL KEYED NOTES:

1 PROVIDE POWER CONNECTION TO EQUIPMENT AS INDICATED.

2 INDOOR UNIT POWERED BY OUTDOOR UNIT. COORDINATE WITH MC.

3 PROVIDE POWER TO EF THROUGH 2-POLE OCCUPANCY SENSOR WITH TWO DEDICATED CONDUITS, FOR 120V CONDUCTORS AND ONE FOR 277V.



ELECTRICAL EQUIPMENT PLAN - OFFICE
SCALE: 1/8" = 1'-0"
NORTH

M+H ARCHITECTS

ARCHITECT:
Mitchell and Hugeback Architects, Inc.
D.B.A. M+H Architects
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KENTUCKY CERTIFICATE OF AUTHORITY #3012

TAYLOR COUNTY RECC

PROJECT ADDRESS
CAMPBELLSVILLE, KY 42718

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Sheet Issue Date:	03/04/25
Job Number:	2025456
Drawn By:	KWS
Checked By:	JAH

Drawing Title:
ELECTRICAL EQUIPMENT PLAN - OFFICE

E4.4

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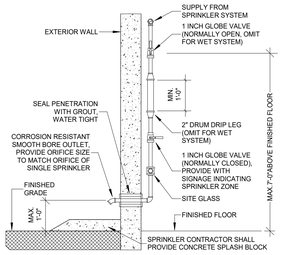
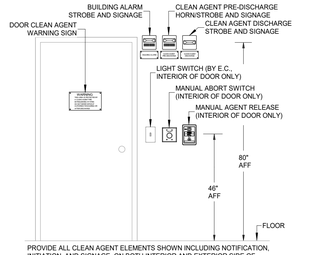


ARRANGEMENT PROVIDED IS SCHEMATIC. MODIFY TO MEET ACTUAL CONDITIONS AND APPLICABLE CODE AND STANDARD REQUIREMENTS. EXTERIOR PIPING AND FITTINGS SHALL BE EXTERNALLY GALVANIZED.

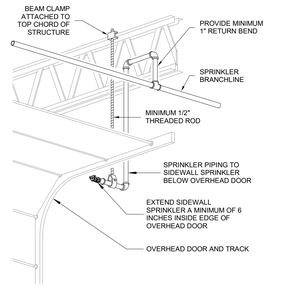
12 REMOTE INSPECTORS'S TEST AND DRAIN
NOT TO SCALE



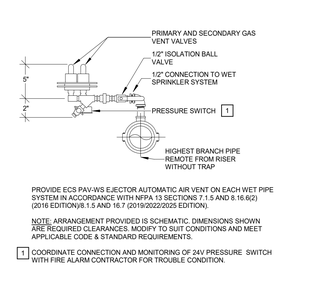
PROVIDE ALL CLEAN AGENT ELEMENTS SHOWN INCLUDING NOTIFICATION, INITIATION, AND SIGNAGE, ON BOTH INTERIOR AND EXTERIOR SIDE OF EACH DOOR OF EACH ROOM PROTECTED BY CLEAN AGENT.

ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODES AND STANDARDS.

7 CLEAN AGENT SYSTEM AT DOORS
NOT TO SCALE



11 OVERHEAD DOOR DETAIL
NOT TO SCALE

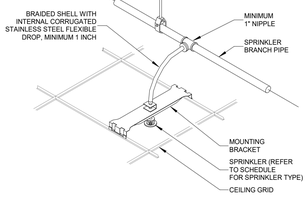


PROVIDE ECS PAV-WS EJECTOR AUTOMATIC AIR VENT ON EACH WET PIPE SYSTEM IN ACCORDANCE WITH NFPA 13 SECTIONS 7.1.5 AND 8.16.6(2) (2016 EDITION)/8.1.5 AND 16.7 (2019/2022/2025 EDITION).

NOTE: ARRANGEMENT PROVIDED IS SCHEMATIC. DIMENSIONS SHOWN ARE REQUIRED CLEARANCES. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE & STANDARD REQUIREMENTS.

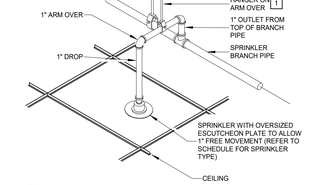
1 COORDINATE CONNECTION AND MONITORING OF 24V PRESSURE SWITCH WITH FIRE ALARM CONTRACTOR FOR TROUBLE CONDITION.

6 AUTOMATIC AIR VENT
NOT TO SCALE



NOTE : ARRANGEMENT PROVIDED IS SCHEMATIC IN NATURE. MODIFY TO SUITE CONDITIONS AND MEET APPLICABLE CODE AND STANDARD REQUIREMENTS.

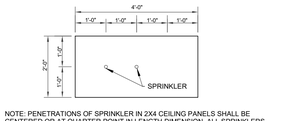
10 TYPICAL FLEXIBLE ARMOVER
NOT TO SCALE



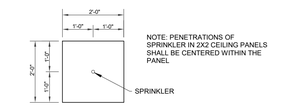
1 HANGER ASSEMBLY THAT PREVENTS UPWARD MOVEMENT OF PIPE PROVIDED WHEN ARM OVER EXCEEDS 12" FOR SYSTEM STATIC PRESSURES OVER 100 PSI OR WHEN ARM OVER EXCEEDS 24", IN ACCORDANCE WITH NFPA 13 SECTION 9.2.3.5 (2007/2010/2013/2016 EDITION) 17.4.3.5 (2019/2022/2025 EDITION).

SPRINKLERS CONNECTING TO THE BOTTOM OF THE BRANCH PIPE ARE NOT PERMITTED.

5 TYPICAL RETURN BEND
NOT TO SCALE



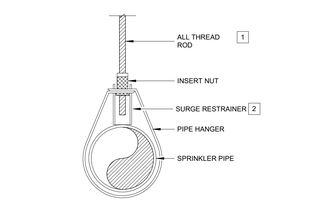
NOTE: PENETRATIONS OF SPRINKLER IN 2X4 CEILING PANELS SHALL BE CENTERED OR AT QUARTER POINT IN LENGTH DIMENSION. ALL SPRINKLERS WITHIN THE SAME ROOM SHALL ALL BE LOCATED SIMILARLY AT THE CENTER POINT OR QUARTER POINT.



NOTE: PENETRATIONS OF SPRINKLER IN 2X2 CEILING PANELS SHALL BE CENTERED WITHIN THE PANEL

SPRINKLERS SHALL BE LOCATED AS NOTED ABOVE, WITH A 2-IN TOLERANCE IN ANY DIRECTION.

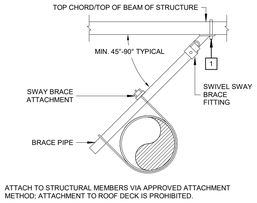
9 CEILING TILE SPRINKLER SPACING
NOT TO SCALE



1 ROD DIAMETER SHALL BE MINIMUM 3/8" FOR 1" TO 4" PIPE DIAMETER OR MINIMUM 1/2" FOR 6" TO 8" PIPE DIAMETER.

2 PROVIDE A SURGE RESTRAINER, CLEVIS-TYPE HANGER, U-HOOK, OR PROVIDE HANGER ROD TIGHT TO PIPE: (1) AT END PENDENT SPRINKLER TO PREVENT UPWARD MOVEMENT OF PIPE WHERE PRESSURE EXCEEDS 100 PSI, IN ACCORDANCE WITH NFPA 13 SECTION 9.2.3.4.4 (2007/2010/2013/2016 EDITION) 17.4.3.4.4 (2019/2022/2025 EDITION), OR (2) WHERE USED FOR SEISMIC RESTRAINT OF PIPING.

4 PIPE HANGER
NOT TO SCALE



1 ATTACH TO STRUCTURAL MEMBERS VIA APPROVED ATTACHMENT METHOD; ATTACHMENT TO ROOF DECK IS PROHIBITED.

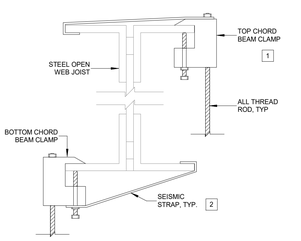
NOTES:

1. PROVIDED ON ALL FEED MAINS, CROSS MAINS, AND PIPING 2-1/2" AND LARGER PER NFPA 13 SECTION 9.3.5.3 (2007/2010 EDITION) 9.3.5.5 (2013/2016 EDITION) 18.5.5 (2019/2022/2025 EDITION).

2. PROVIDED AT (1) NO MORE THAN 40 FOOT INTERVALS, (2) WITHIN 6 FEET OF END OF PIPE, AND (3) WITHIN 24 INCHES OF EVERY OTHER NON-ESSENTIAL FLEXIBLE COUPLING.

3. LATERAL BRACES MAY BE OMITTED WHERE SPECIFICALLY ALLOWED BY NFPA 13.

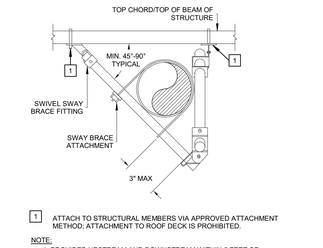
2 LATERAL SEISMIC BRACE
NOT TO SCALE



1 PROVIDE BEAM CLAMPS AT TOP CHORD OF JOIST UNLESS BOTTOM CHORD ATTACHMENT IS APPROVED BY STRUCTURAL ENGINEER

2 PROVIDE SEISMIC RESTRAINING STRAP WHERE SEISMIC BRACING IS REQUIRED (SEE ANCHORAGE & SWAY BRACING TABLE)

8 PIPE HANGER DETAIL - BAR JOISTS
NOT TO SCALE

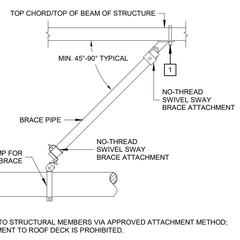


1 ATTACH TO STRUCTURAL MEMBERS VIA APPROVED ATTACHMENT METHOD; ATTACHMENT TO ROOF DECK IS PROHIBITED.

NOTE:

1. PROVIDED UPSTREAM AND DOWNSTREAM WITHIN 6 FEET OF SEISMIC SEPARATION ASSEMBLY IN ACCORDANCE WITH NFPA 13 SECTION 9.3.3.3 (2007/2010/2013/2016 EDITION) 18.3.3 (2019/2022/2025 EDITION).

3 FOUR-WAY SEISMIC BRACE
NOT TO SCALE



1 ATTACH TO STRUCTURAL MEMBERS VIA APPROVED ATTACHMENT METHOD; ATTACHMENT TO ROOF DECK IS PROHIBITED.

NOTE:

1. PROVIDED ON ALL FEED AND CROSS MAINS AT NO MORE THAN 80 FEET ON CENTER AND WITHIN 40 FEET OF THE END OF PIPE, IN ACCORDANCE WITH NFPA 13 SECTION 9.3.5.4 (2007/2010 EDITION) 9.3.5.6 (2013/2016 EDITION) 18.5.6 (2019/2022/2025 EDITION).

1 LONGITUDINAL SEISMIC BRACE
NOT TO SCALE

FIRE PROTECTION DESIGN CRITERIA (NFPA 13 - 2013 EDITION)

HAZARD	AREA	DESIGN CRITERIA	HOSE (GPM)	MAX SPACING (SQFT)	DESIGN BASIS
LIGHT HAZARD	OFFICE AREAS / PUBLIC AREAS / CORRIDORS / RESTROOMS / LOBBY / CONFERENCE ROOMS / BREAK ROOM	0.10 / 1500 SQFT	100	225	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
ORDINARY HAZARD GROUP 1	ELECTRICAL / MECHANICAL / STORAGE / SERVER / IT	0.15 / 1500 SQFT	250	130	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
ORDINARY HAZARD GROUP 2	MISCELLANEOUS STORAGE / MERCANTILE	0.20 / 1500 SQFT	250	130	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
ORDINARY HAZARD GROUP 2	WAREHOUSE STORAGE (RACK STORAGE OF CLASS I-II/ UP TO 12FT / RACK STORAGE OF CLASS IV UP TO 10FT / GROUP A PLASTIC STORAGE UP TO 5 FT.	0.20 / 1500 SQFT	250	130	NFPA 13 SECTIONS 13.2.2 & TABLE 13.2.1
MINIMUM REQUIRED SAFETY FACTOR: 5 PSI / 10 PSI / 5% / 10% / 20%					

NOTES:

1. THE HYDRAULIC AREA OF OPERATION MAY NOT BE REDUCED AS ALLOWED BY NFPA 13 FOR AREAS UTILIZING QUICK RESPONSE SPRINKLERS FOR NEW SYSTEM INSTALLATIONS OR UNFINISHED SHELL SPACES.
2. HYDRAULIC AREA OF OPERATION SHALL BE INCREASED (CUMULATIVELY) WITHOUT REVISING THE DENSITY FOR THE FOLLOWING APPLICATIONS:
   A. INCREASED BY 30% FOR AREAS WITH SLOPED CEILINGS WITH A PITCH EXCEEDING 1 IN 6 (16.7%) SLOPE IN ACCORDANCE WITH NFPA 13 11.2.3.2.4.
   B. INCREASED BY 30% FOR DRY-PIPE AND DOUBLE INTERLOCK PRE-ACTION SYSTEMS, IN ACCORDANCE WITH NFPA 13 11.2.3.2.5.
   C. INCREASED TO 3,000 SQFT IF THE BUILDING HAS ADJACENT, NON-SPRINKLERED COMBUSTIBLE SPACES.
3. THE ABOVE CRITERIA NOTED DOES NOT PRECLUDE THE USE OF EXTENDED COVERAGE OR LISTED SPECIAL APPLICATION SPRINKLERS THAT ARE DESIGNED AND INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURER REQUIREMENTS.
4. THE HOSE STREAM ALLOWANCE SHALL BE PROVIDED AT THE BASE OF RISER.

ANCHORAGE & SWAY BRACING - FIRE PROTECTION SYSTEM COMPONENTS

Occupancy Category (-) — Seismic Design Category (-)

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
	Not Provided	Provided	Not Provided	Provided	Drawing No. or Spec. Section	Shop Drawings	Separate Permit & Plans	
PIPING AND EQUIPMENT	-	X	-	X	-	BY FPC (Delegated Design)	-	BRACE PIPING AND/OR EQUIPMENT WHERE REQUIRED BY IBC / IFC AND PER METHODS IN NFPA 13

VIBRATION ISOLATION AND SEISMIC RESTRAINT SCHEDULE

EQUIPMENT TAG	ISOLATION SPEC.	SEISMIC RESTRAINT	ISOLATOR DEFLECTION	COMPONENT IMPORTANCE FACTOR	COMPONENT RESPONSE MODIFICATION FACTOR	COMPONENT AMPLIFICATION FACTOR
SPR-PIPING	SC	YES	-	1.5	2.5	1.0
SPR-EQUIP	W / B	YES	-	1.5	2.5	1.0

FIRE/JOCKEY PUMP SCHEDULE

MARK	MANUFACTURER	MODEL NO.	RPM	GPM	RATED PSI	HP	V / PH	REMARKS
FP-1	AURORA	-	-	-	-	-	460 / 3	1,2,3,4,5,6,7,8
JP-1	AURORA	-	-	-	-	-	208 / 3	1,2

1. SEE THIS SHEET FOR SITE FLOW TEST INFORMATION. TO BE USED PRIOR TO BIDDING FOR FIRE PUMP SIZE VERIFICATION.
2. PACKAGED FIRE PUMP SYSTEM WITH CONTROL PANEL.
3. HORIZONTAL SPLIT CASE PUMP (WITH THROTTLE CONTROL (WITH SOFT START/ WITH VFD/WYE-DELTA CLOSED TRANSITION STARTER.
4. PROVIDE WITH AN AUTOMATIC TRANSFER SWITCH CAPABLE OF ACCEPTING TWO DIFFERENT SOURCES OF POWER.
5. PROVIDE ON MINIMUM 4" THICK CONCRETE HOUSEKEEPING PAD. SEE DETAIL ON THIS SHEET.
6. THE FIRE PUMP SHOWN IN THIS SCHEDULE IS BASED ON AN ESTIMATED SYSTEM DEMAND, AND THE APPROXIMATE SIZE HAS BEEN SCHEDULED AS AN AID TO BIDDERS. THE FINAL SIZE OF THE FIRE PUMP SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS PERFORMED BY THE FIRE PROTECTION CONTRACTOR. BIDDING CONTRACTORS SHALL REVIEW ALL DESIGN REQUIREMENTS BASED ON OCCUPANCY WHEN SELECTING A PRICE TO BE ALLOCATED TO THE FIRE PUMP. NO CHANGES TO THE CONTRACT PRICE WILL BE ALLOWED IN THE EVENT A FIRE PUMP OTHER THAN THE ONE SCHEDULED IS PROVIDED.
7. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THE FIRE PUMP AND EMERGENCY GENERATOR SIZE PRIOR TO BIDDING. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL AND GENERAL CONTRACTORS. IN THE EVENT FIRE PROTECTION CONTRACTOR DETERMINES THAT A LARGER FIRE PUMP IS REQUIRED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE COST TO INCREASE THE SIZE OF THE EMERGENCY GENERATOR IS INCLUDED IN THE ELECTRICAL CONTRACTOR'S BASE BID PRICE.
8. FIRE PUMP SHALL NOT EXCEED 120% OF RATED CAPACITY.

FLOW TEST

PERFORMED BY:
DATE:

STATIC: RESIDUAL: FLOW:

TEST RESULTS ARE VALID FOR 12 MONTHS FROM THE DATE PERFORMED.

IT IS NOT EXPECTED THAT A FIRE PUMP WILL BE REQUIRED AS PART OF THIS PROJECT. CONTRACTOR SHALL ESTIMATE THE SYSTEM DEMAND AND VERIFY THAT THE WATER SUPPLY IS SUFFICIENT PRIOR TO SUBMITTING BIDS. IF THE CONTRACTOR DETERMINES A FIRE PUMP WILL BE REQUIRED, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED PRIOR TO BIDDING.

FIRE PROTECTION SPRINKLER SCHEDULE

SYMBOL	TYPE	RE.	K-F	FINISH	NOTE
NEW					
	FULLY-CONCEALED PENDENT	QR	5.6	WHITE COVERPLATE	-
	FULLY-CONCEALED DRY PENDENT	QR	5.6	WHITE COVERPLATE	1
	RECESSED PENDENT	QR	5.6	WHITE	2
	UPRIGHT	QR	5.6	BRASS	2
	SIDEWALL	QR	5.6	WHITE	2
	DRY SIDEWALL	QR	5.6	WHITE	2

GENERAL NOTES:
1. SPRINKLER SHALL BE THE APPROPRIATE TEMPERATURE RATING FOR LOCATION AND OCCUPANCY IN ACCORDANCE WITH NFPA 13.
2. SPRINKLERS SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECTS REFLECTED CEILING PLAN, AND PROVIDE ADDITIONAL SPRINKLERS WHERE REQUESTED BY ARCHITECT.

NOTES:
1. PROVIDE HIGH TEMPERATURE RATED SPRINKLERS IN VESTIBULES.
2. PROVIDE WITH LISTED SPRINKLER GUARD FOR INSTALLATIONS BELOW 7 FT AFF.

FIRE PROTECTION SYMBOL LEGEND

	SCOPE OF WORK BOUNDARY
	TEE
	ELBOW
	PIPE CONTINUATION
	SUPERVISED BUTTERFLY INDICATING VALVE
	COUPLING
	SUPERVISED WATERFLOW SWITCH
	PRESSURE GAUGE WITH BALL VALVE
	INSPECTOR'S TEST & DRAIN W/ SIGHT GLASS
	CHECK VALVE (3" AND SMALLER)
	CHECK VALVE (4" AND LARGER)
	FIRE PUMP (SECTION VIEW)
	REDUCER
OS&Y	SUPERVISED OS&Y VALVE
	HOSE CONNECTION
	FIRE PUMP TEST HEADER
	FIRE PUMP TEST HEADER
FS	SUPERVISED WATERFLOW SWITCH
PS	SUPERVISED PRESSURE SWITCH
TS	SUPERVISED TAMPER SWITCH
	CONNECTION OF NEW TO EXISTING
	NEW FIRE SUPPRESSION PIPE
	DEMO FIRE SUPPRESSION PIPE (ON DEMO PLANS ONLY)
	EXISTING FIRE SUPPRESSION PIPE

FIRE PROTECTION ABBREVIATION LEGEND

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BOP	BOTTOM OF PIPE
BRZ	BRONZE
DN	DOWN
EC	EXTENDED COVERAGE
EX	EXISTING
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GC	GENERAL CONTRACTOR
GRVD	GROOVED
HSW	HORIZONTAL SIDEWALL
IN	INCH
PC	PLUMBING CONTRACTOR
PND	PENDENT
QR	QUICK RESPONSE
SPR	SPRINKLER SYSTEM
SS	STANDPIPE SYSTEM
STND	STANDARD
THR	THREADED
UPR	UPRIGHT

FIRE PROTECTION GENERAL DEMOLITION NOTES:

1. NOTATION: DEMOLISH PIPING AND EQUIPMENT SHOWN CROSS HATCHED.
2. EXISTING CONDITIONS: THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS; CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID(S). NOTIFY ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
3. DEMOLITION WORK: VERIFY EXISTING SERVICES TO REMAIN. ALL NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION TO PREVENT DAMAGE TO FIRE PROTECTION, PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS TO REMAIN. NOTIFY GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR IF WIRING IS FOUND ATTACHED TO PIPING. FIRE PROTECTION SYSTEMS SERVING OTHER AREAS SHALL PROVIDE FOR UNINTERRUPTED SERVICE TO THOSE AREAS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE OWNER. COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR AND OWNER'S ON SITE REPRESENTATIVE.
4. REMOVAL: WHEREVER EXISTING FIRE PROTECTION EQUIPMENT, PIPING AND EQUIPMENT, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. ASSOCIATED WITH THE FIRE PROTECTION EQUIPMENT, UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING SURFACES.
5. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
6. PLAN REVIEW: REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION. REFER TO MEP AND SPRINKLER DEMOLITION PLANS FOR MEP DEMOLITION.

FIRE PROTECTION GENERAL NOTES:

1. SCOPE: PROVIDE A COMPLETE, FUNCTIONING FIRE SPRINKLER SYSTEM DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, (2007/2010/2013/2016 EDITION), SYSTEM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE, FIRE CODE, AUTHORITY HAVING JURISDICTION, AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL. NO CHANGE TO THE CONTRACT PRICE WILL BE ACCEPTED FOR PROVIDING AND INSTALLING EQUIPMENT REQUIRED BY THE AFOREMENTIONED CODES, STANDARDS, OR THE LOCAL AUTHORITY HAVING JURISDICTION.
2. DELEGATED DESIGN: THE LOCATIONS OF MAJOR FIRE PROTECTION EQUIPMENT AND PIPE ROUTING ARE SHOWN ONLY FOR GENERAL REFERENCE AND SPACE COORDINATION. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING A COMPLETE, FUNCTIONAL, AND CODE COMPLIANT AUTOMATIC SPRINKLER SYSTEM. FIRE PROTECTION CONTRACTOR SHALL DESIGN, LOCATE AND PROVIDE ALL EQUIPMENT, VALVES, PIPE ARRANGEMENTS AND COORDINATE WITH OTHER TRADES TO MEET THE APPLICABLE CODES AND STANDARDS FOR A COMPLETE AND FUNCTIONAL SYSTEM. ALL EQUIPMENT, PIPING, VALVING, ETC. SHALL BE LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
3. APPROVAL: PRIOR TO COMMENCING WORK, APPROVAL SHALL BE RECEIVED FROM THE OWNERS INSURANCE COMPANY, ENGINEER, FIRE MARSHAL, AND OWNER. WORK COMMENCED PRIOR TO SHOP DRAWING REVIEW SHALL BE AT CONTRACTOR'S RISK.
4. PIPING AND COORDINATION:
   A. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES FOR THE LOCATION OF ALL PIPING AND EQUIPMENT TO PREVENT INTERFERENCE. PROVIDE ALL NECESSARY OFFSETS IN PIPING TO AVOID CONFLICT. NO CHANGE TO THE CONTRACT PRICE WILL BE ACCEPTED WHERE ALTERNATE PIPING ROUTES ARE REQUIRED.
   B. PIPE SHALL BE INSTALLED AS HIGH AS POSSIBLE IN OPEN STRUCTURE AREAS.
   C. PIPING SHALL BE ROUTED 3" - 12" ABOVE CEILING, UNLESS OTHERWISE NOTED.
   D. RENDER ANY PASSAGE OF PIPING THROUGH OUTSIDE WALLS PERMANENTLY WATERTIGHT.
   E. PROVIDE SEISMIC BRACING AS REQUIRED FOR NEW PIPING. REFER TO BRACING DETAILS.
   F. WHERE PIPING ELEVATION CONFLICTS WITH DUCTWORK, OFFSETS TO FIRE PROTECTION PIPING SHALL BE UP AND OVER DUCTWORK. WHERE CONFLICTS OCCUR, PIPING SHALL NOT BE ROUTED DOWN BELOW DUCTWORK WHERE THIS PIPING WOULD BE LESS THAN 3" ABOVE CEILING ELEVATION.
   G. PROVIDE AUXILIARY DRAINS AS REQUIRED FOR DRAINING TRAPPED SECTIONS OF PIPING. FOR TRAPPED SECTIONS OF PIPING EXCEEDING 5 GALLONS IN CAPACITY, PROVIDE A HARD-PIPED DRAIN CONNECTION AND ROUTE BACK TO DRAIN IN SPRINKLER RISER ROOM OR ALTERNATE LOCATION APPROVED BY ENGINEER.
   H. COORDINATE ALL POWER AND FIRE ALARM CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.
5. SPRINKLER TYPE AND DESIGN DENSITIES: REFER TO FIRE PROTECTION SPRINKLER SCHEDULE AND PROTECTION CRITERIA.
6. SUBMITTAL: FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE FOLLOWING DOCUMENTATION SIGNED AND SEALED BY A FIRE PROTECTION ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:
   A. SHOP DRAWINGS CREATED IN ACCORDANCE WITH NFPA 13 SECTION 22.1.3 (2007/2010 EDITION)/23.1.3 (2013/2016 EDITION) AND CONTRACT DOCUMENTS
   B. HYDRAULIC CALCULATIONS
   C. SEISMIC DESIGN
   D. FLOW TEST INFORMATION
   E. PRODUCT DATA FOR ALL EQUIPMENT AND COMPONENTS USED ON THIS PROJECT. ALL EQUIPMENT AND COMPONENTS SHALL BE LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
   F. ANY OTHER DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. SCOPE VERIFICATION: GENERAL CONTRACTOR SHALL VERIFY:
   A. ELECTRICAL CONTRACTOR HAS INCLUDED IN HIS CONTRACT ALL POWER AND EMERGENCY POWER REQUIREMENTS REQUIRED FOR FIRE PROTECTION EQUIPMENT, AND ALL SUPERVISORY FIRE ALARM CONNECTIONS.
   B. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE UNDERGROUND FIRE WATER MAINS ON SITE. ALL TRENCH AND SOIL WORK TO BE PROVIDED BY OTHERS. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
8. SPECIFICATIONS: REFER TO SPECIFICATIONS FOR FURTHER DETAIL.

FIRE PROTECTION SHEET LIST

Sheet Number	Sheet Name
FP0.1	FIRE PROTECTION SYMBOLS, NOTES, LEGENDS AND SCHEDULES
FP1.1	FIRE PROTECTION PLAN - OPERATIONS & WAREHOUSE
FP1.2	FIRE PROTECTION PLAN - MAINTENANCE AND COVERED STORAGE
FP1.4	FIRE PROTECTION PLAN - OFFICE

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FIRE PROTECTION SYMBOLS, NOTES, LEGENDS AND SCHEDULES

FP0.1

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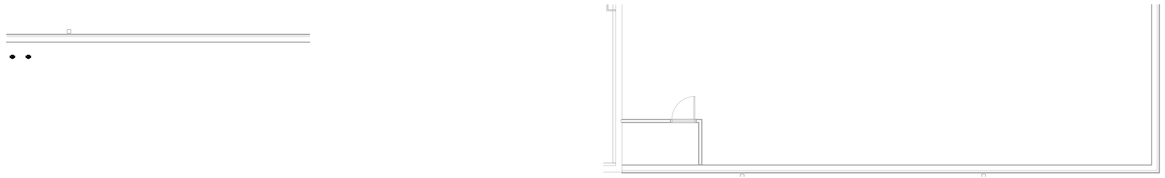
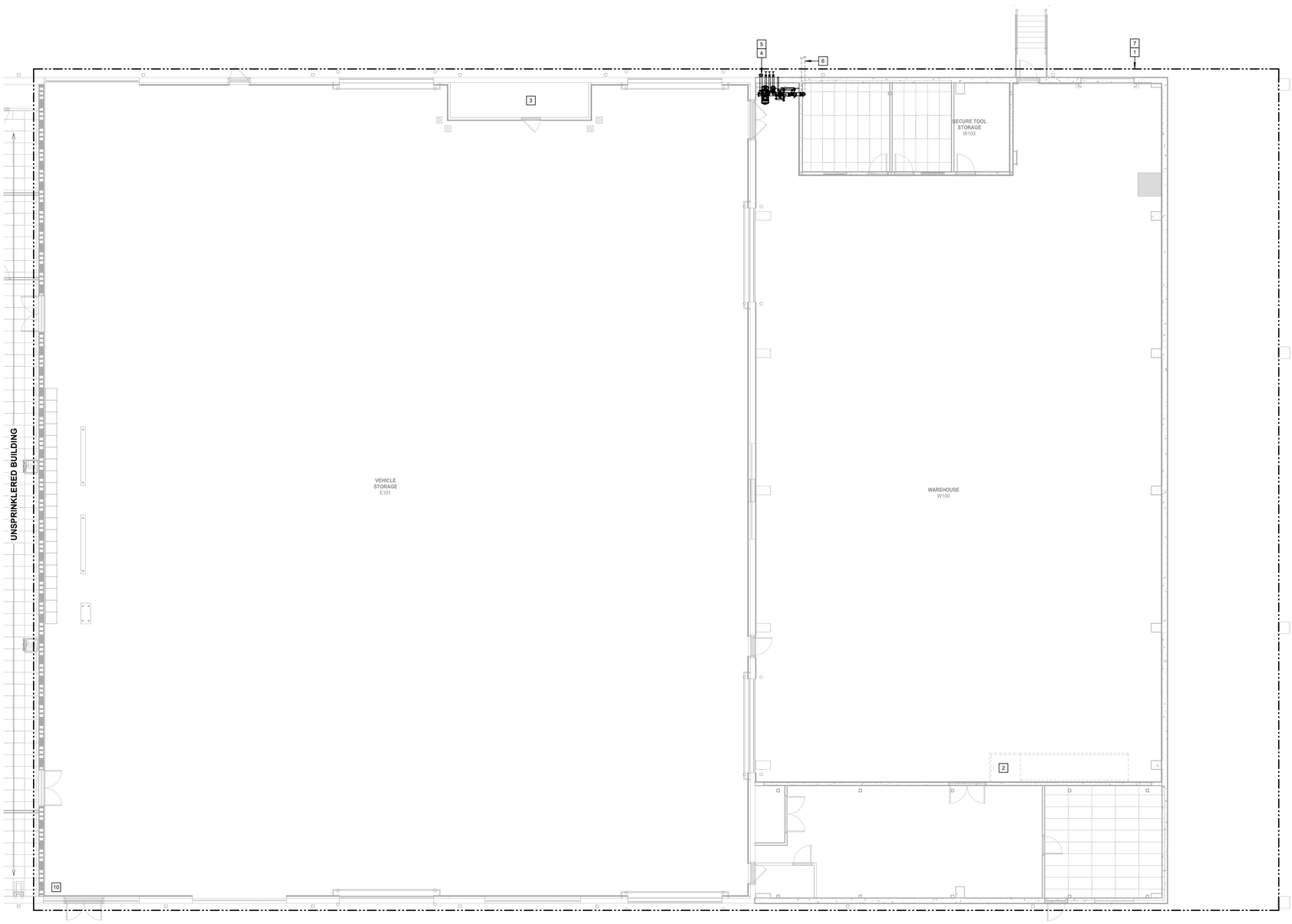


FIRE PROTECTION PLAN - WAREHOUSE WEST MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH

FIRE PROTECTION PLAN - WAREHOUSE EAST MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH



FIRE PROTECTION PLAN - OPERATIONS & WAREHOUSE
SCALE: 1/8" = 1'-0"
NORTH

FIRE PROTECTION GENERAL NOTES:

1. REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. THE LOCATIONS OF MAJOR FIRE PROTECTION EQUIPMENT AND PIPING ARE SHOWN ONLY FOR GENERAL REFERENCE AND SPACE COORDINATION. FIRE PROTECTION CONTRACTOR SHALL DESIGN, LOCATE, AND PROVIDE ALL EQUIPMENT, SPRINKLERS, VALVES, PIPE ARRANGEMENTS, AND COORDINATE WITH OTHER TRADES TO MEET THE APPLICABLE CODES AND STANDARDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
3. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE UNDERGROUND FIRE WATER MAINS ON SITE. ALL TRENCH AND SOIL WORK TO BE PROVIDED BY OTHERS. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION KEYED NOTES:

1. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEM(S) SHALL BE DESIGNED PER NFPA 13 AND IBC REQUIREMENTS FOR A FULLY SPRINKLER BUILDING. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES.
2. PROVIDE SPRINKLER PROTECTION BENEATH THE ACCESSIBLE STAIR LANDING.
3. DO NOT ROUTE FIRE SPRINKLER PIPING ABOVE ELECTRICAL PANELS IN ACCORDANCE WITH NFPA 70 (2014/2017/2020/2023 EDITION). NO CHANGE IN COST WILL BE ACCEPTED FOR REROUTING FIRE SPRINKLER PIPING THAT WAS INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PANEL LOCATIONS.
4. PROVIDE AN AUDIO/VISUAL HORN AND STROBE ALARM ON EXTERIOR WALL ABOVE FIRE DEPARTMENT CONNECTION.
5. PROVIDE SIAMESE WALL MOUNTED FIRE DEPARTMENT CONNECTION. PROVIDE AND SEAL PIPE SLEEVE AT ALL PENETRATIONS THROUGH WALL. PENETRATIONS(S) SHALL BE WATER TIGHT. PROVIDE KNOX CAPS WHERE REQUIRED BY AHJ.
6. PROVIDE A NEW MINIMUM 6" INCOMING FIRE WATER SERVICE MAIN BELOW GRADE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
7. PROVIDE AN AUTOMATIC AIR VENT FOR THE WET PIPE SPRINKLER SYSTEM, LOCATED AT THE HIGH POINT IN THE SYSTEM. THE AUTOMATIC AIR VENT SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. ACCESS POINT SHALL BE LABELED IF LOCATED ABOVE A CEILING. PROVIDE CEILING ACCESS PANEL AS REQUIRED. REFER TO DETAIL ON SHEET FP0.1 AND SPECIFICATION 210500 FOR MORE INFORMATION. COORDINATE WIRING REQUIREMENTS AND FINAL LOCATION WITH THE FIRE ALARM CONTRACTOR.
8. PROVIDE SPRINKLER PROTECTION BENEATH OVERHEAD DOOR IN ACCORDANCE WITH NFPA 13. PIPING SHALL BE SUPPORTED BY HANGERS ATTACHED TO STRUCTURE, NOT DOOR TRACKS.
9. LOCATION OF NEW HVLS FANS. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION OF HVLS FAN. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR INSTALL PIPING AND SPRINKLERS IN A MANNER THAT PROVIDES REQUIRED CLEARANCES TO HVLS FANS PER NFPA 13 AND MANUFACTURER'S REQUIREMENTS.
10. REMOTE INSPECTOR'S TEST AND DRAIN.

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FIRE PROTECTION PLAN - OPERATIONS & WAREHOUSE

FP1.1

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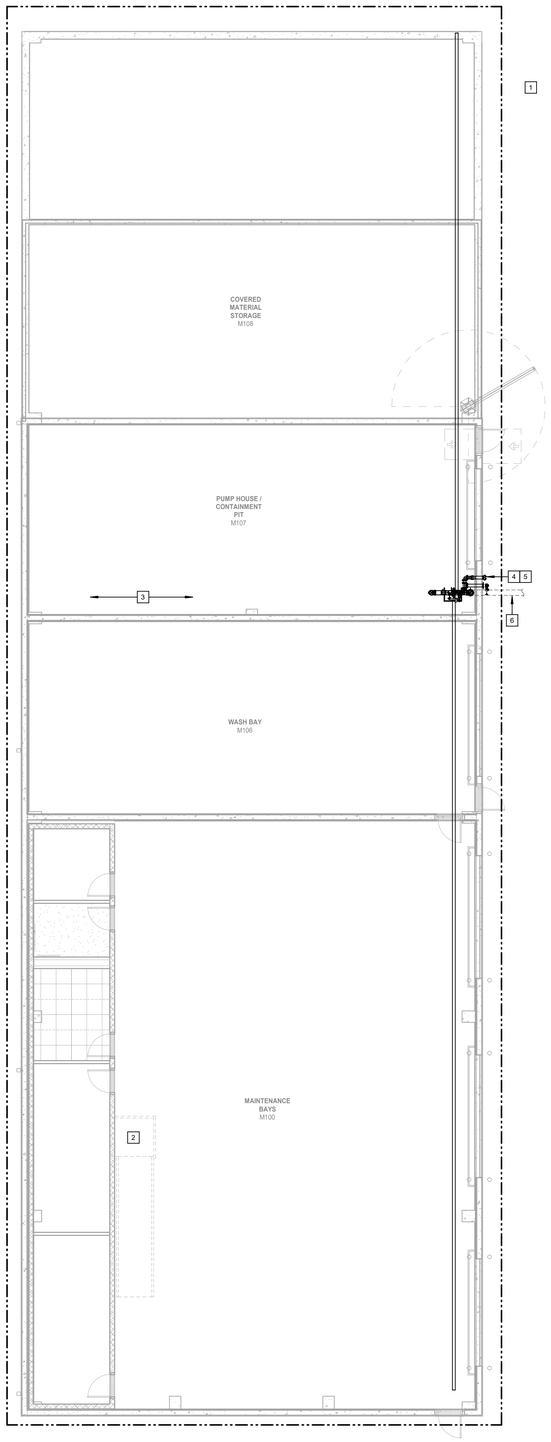

FIRE PROTECTION PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
NORTH

FIRE PROTECTION PLAN - MAINTENANCE MEZZANINE
SCALE: 1/8" = 1'-0"
NORTH

FIRE PROTECTION GENERAL NOTES:

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3. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE UNDERGROUND FIRE WATER MAINS ON SITE. ALL TRENCH AND SOIL WORK TO BE PROVIDED BY OTHERS. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION KEYED NOTES:

1. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEM(S) SHALL BE DESIGNED PER NFPA 13 AND IBC REQUIREMENTS FOR A FULLY SPRINKLER BUILDING. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES.
2. PROVIDE SPRINKLER PROTECTION BENEATH THE ACCESSIBLE STAIR LANDING.
3. DO NOT ROUTE FIRE SPRINKLER PIPING ABOVE ELECTRICAL PANELS IN ACCORDANCE WITH NFPA 70 (2014/2017/2020/2023 EDITION). NO CHANGE IN COST WILL BE ACCEPTED FOR REROUTING FIRE SPRINKLER PIPING THAT WAS INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PANEL LOCATIONS.
4. PROVIDE AN AUDIO/VISUAL HORN AND STROBE ALARM ON EXTERIOR WALL ABOVE FIRE DEPARTMENT CONNECTION.
5. PROVIDE SIAMESE WALL MOUNTED FIRE DEPARTMENT CONNECTION. PROVIDE AND SEAL PIPE SLEEVE AT ALL PENETRATIONS THROUGH WALL. PENETRATIONS(S) SHALL BE WATER TIGHT. PROVIDE KNOX CAPS WHERE REQUIRED BY AHJ.
6. PROVIDE A NEW MINIMUM 6" INCOMING FIRE WATER SERVICE MAIN BELOW GRADE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
7. OVERHEAD CRANE. ROUTE PIPE TIGHT TO STRUCTURE TO CLEAR CRANE REQUIRED CLEARANCES.
8. PROVIDE SPRINKLER PROTECTION BENEATH OVERHEAD DOOR IN ACCORDANCE WITH NFPA 13. PIPING SHALL BE SUPPORTED BY HANGERS ATTACHED TO STRUCTURE, NOT DOOR TRACKS.
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FIRE PROTECTION PLAN - MAINTENANCE AND COVERED STORAGE

FP1.2

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FIRE PROTECTION PLAN - OFFICE
SCALE: 1/8" = 1'-0"
NORTH

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2. HARDENED ENCLOSURE HAS A GRATE LID. NO FIRE SPRINKLER PROTECTION REQUIRED.
3. DO NOT ROUTE FIRE SPRINKLER PIPING ABOVE ELECTRICAL PANELS IN ACCORDANCE WITH NFPA 70 (2014/2017/2020/2023 EDITION). NO CHANGE IN COST WILL BE ACCEPTED FOR REROUTING FIRE SPRINKLER PIPING THAT WAS INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PANEL LOCATIONS.
4. PROVIDE AN AUDIO/VISUAL HORN AND STROBE ALARM ON EXTERIOR WALL ABOVE FIRE DEPARTMENT CONNECTION.
5. PROVIDE SIAMESE WALL MOUNTED FIRE DEPARTMENT CONNECTION. PROVIDE AND SEAL PIPE SLEEVE AT ALL PENETRATIONS THROUGH WALL. PENETRATIONS(S) SHALL BE WATER TIGHT. PROVIDE KNOX CAPS WHERE REQUIRED BY AHJ.
6. PROVIDE A NEW MINIMUM 6" INCOMING FIRE WATER SERVICE MAIN BELOW GRADE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
7. PROVIDE AN AUTOMATIC AIR VENT FOR THE WET PIPE SPRINKLER SYSTEM, LOCATED AT THE HIGH POINT IN THE SYSTEM. THE AUTOMATIC AIR VENT SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. ACCESS POINT SHALL BE LABELED IF LOCATED ABOVE A CEILING. PROVIDE CEILING ACCESS PANEL AS REQUIRED. REFER TO DETAIL ON SHEET FP0.1 AND SPECIFICATION 210500 FOR MORE INFORMATION. COORDINATE WIRING REQUIREMENTS AND FINAL LOCATION WITH THE FIRE ALARM CONTRACTOR.
8. PROVIDE A CLEAN AGENT SYSTEM INCLUDING DEDICATED RELEASING PANEL, CLEAN AGENT STORAGE TANK, DETECTION DEVICES, AUDIO/VISUAL ALARMS, MANUAL PULL STATIONS, ABORT SWITCHES, ETC. (VERIFY - WET SYSTEM NOT REQUIRED TO SUPPLEMENT CLEAN AGENT SYSTEM, PER AHJ)
9. SPACE ALLOCATION FOR CLEAN AGENT SYSTEM 350LB TANK. SYSTEM TANK IS ESTIMATED IN SIZE BASED ON ROOM VOLUME. FINAL TANK REQUIREMENTS AND SIZE SHALL BE DETERMINED BY THE ENGINEER OF RECORD FOR THE CLEAN AGENT SYSTEM. TANK SIZE SHOWN FOR SPACE ALLOCATION ONLY. COORDINATE ALL SPACE REQUIREMENTS WITH OTHER TRADES BASED ON FINAL CALCULATIONS FOR SYSTEM REQUIREMENTS.
10. SPRINKLER PROTECTION IS PERMITTED TO BE OMITTED FROM WITHIN EXTERIOR CANOPIES, ROOFS, PORTE-COCHERES, BALCONIES, DECKS, AND SIMILAR PROJECTIONS THAT ARE CONSTRUCTED WITH MATERIALS THAT ARE NONCOMBUSTIBLE, LIMITED-COMBUSTIBLE, OR FIRE RETARDANT-TREATED WOOD AS DEFINED IN NFPA 703 PER NFPA 13 SECTION 8.15.7.2, 2 (2013/2016 EDITION)/9.2.3.1 (2019 EDITION)/9.2.3.2 (2022 EDITION).

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FIRE PROTECTION PLAN - OFFICE

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PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION
WC-1	WALL HUNG WATER CLOSET
2257.101	AMERICAN STANDARD "AFWALL FLOWISE", WALL HUNG TOILET WITH SIPHON JET ACTION, WHITE VITREOUS CHINA, ELONGATED BOWL, 1.1 GPF THRU 1.6 GPF, 15" MOUNTING HEIGHT.
111	SLOAN ROYAL FLUSH VALVE WITH ADA COMPLIANT HANDLE, VANDAL RESISTANT STOP CAP WITH SET SCREW, AND SWEAT SOLDER ADAPTER WITH COVER TUBE AND CAST SET SCREW WALL FLANGE, 1.6GPF.
111-ES-S	SLOAN ROYAL, OPTIMA FLUSH VALVE WITH SWEAT SOLDER ADAPTER, 1.6 GAL/FLUSH, INFRARED SENSOR, INTEGRAL 24 VAC SOLENOID OPERATOR (LESS TRANSFORMER)
8111	SLOAN OPTIMA PLUS, BATTERY POWERED, SENSOR OPERATED FLUSHOMETER.
1500STSCC	CENTOCO WHITE SOLID PLASTIC OPEN FRONT SEAT, LESS COVER. (EXTRA HEAVY DUTY)
0210 SERIES	JR SMITH CARRIER SHALL MATCH FIXTURE AND SHALL BE HORIZONTAL TYPE.
0230 SERIES	JR SMITH CARRIER SHALL MATCH FIXTURE AND SHALL BE VERTICAL TYPE. (REDUCED WIDTH FOR SMALLER CHASES)
WC-2	WALL HUNG WATER CLOSET - ADA
2257.101	AMERICAN STANDARD "AFWALL FLOWISE", WALL HUNG TOILET WITH SIPHON JET ACTION, WHITE VITREOUS CHINA, ELONGATED BOWL, 1.1 GPF THRU 1.6 GPF, 17" MOUNTING HEIGHT.
111	SLOAN ROYAL FLUSH VALVE WITH ADA COMPLIANT HANDLE, VANDAL RESISTANT STOP CAP WITH SET SCREW, AND SWEAT SOLDER ADAPTER WITH COVER TUBE AND CAST SET SCREW WALL FLANGE, 1.6GPF.
111-ES-S	SLOAN ROYAL, OPTIMA FLUSH VALVE WITH SWEAT SOLDER ADAPTER, 1.6 GAL/FLUSH, INFRARED SENSOR, INTEGRAL 24 VAC SOLENOID OPERATOR (LESS TRANSFORMER)
8111	SLOAN OPTIMA PLUS, BATTERY POWERED, SENSOR OPERATED FLUSHOMETER.
1500STSCC	CENTOCO WHITE SOLID PLASTIC OPEN FRONT SEAT, LESS COVER. (EXTRA HEAVY DUTY)
0210 SERIES	JR SMITH CARRIER SHALL MATCH FIXTURE AND SHALL BE HORIZONTAL TYPE.
0230 SERIES	JR SMITH CARRIER SHALL MATCH FIXTURE AND SHALL BE VERTICAL TYPE. (REDUCED WIDTH FOR SMALLER CHASES)
UR-1	WALL HUNG URINAL
6590.001	AMERICAN STANDARD "WASHBROOK", WHITE VITREOUS CHINA, WASHOUT URINAL, TOP SPUD, 24" MOUNTING HEIGHT, 0.125 GPF THRU 1.0 GPF.
186-1.0	SLOAN ROYAL FLUSH VALVE WITH SWEAT SOLDER ADAPTER.
8180-1.0	SLOAN OPTIMA PLUS BATTERY POWERED, SENSOR OPERATED FLUSHOMETER.
186-1.0ES-S	1SLOAN ROYAL, OPTIMA FLUSH VALVE WITH SWEAT SOLDER ADAPTER, 1.0 GAL/FLUSH, INFRARED SENSOR, INTEGRAL 24 VAC SOLENOID OPERATOR (LESS TRANSFORMER)
0617	PROVIDE J.R. SMITH FOOT SUPPORTED FIXTURE CARRIER. MOUNTING HEIGHT 24".
UR-2	WALL HUNG URINAL - ADA
6590.001	AMERICAN STANDARD "WASHBROOK", WHITE VITREOUS CHINA, WASHOUT URINAL, TOP SPUD, 17" MOUNTING HEIGHT, 0.125 GPF THRU 1.0 GPF.
186-1.0	SLOAN ROYAL FLUSH VALVE WITH SWEAT SOLDER ADAPTER.
8180-1.0	SLOAN OPTIMA PLUS BATTERY POWERED, SENSOR OPERATED FLUSHOMETER.
186-1.0ES-S	SLOAN ROYAL, OPTIMA FLUSH VALVE WITH SWEAT SOLDER ADAPTER, 1.0 GAL/FLUSH, INFRARED SENSOR, INTEGRAL 24 VAC SOLENOID OPERATOR (LESS TRANSFORMER)
0617	PROVIDE J.R. SMITH FOOT SUPPORTED FIXTURE CARRIER. MOUNTING HEIGHT 17".
SH-1	SHOWER
IS4136SH	AQUABATH 36"x36"x78" SHOWER STALL, ACRYLIC, OUTSIDE DIMENSIONS OF 41"x37"x84", UNIT TO BE INSTALLED IN A PIT 2" DEEP BY 41" WIDE x 37-1/2" FRONT TO BACK. SEE ARCHITECTURAL DRAWINGS. VERIFY FLOOR TYPE FOR OPTIONAL 3/4" THRESHOLD. ENCLOSURE TO BE EQUIPPED WITH TWO (2) GRAB BARS, CURTAIN ROD, RIBBED FLOOR, SELF CAULKING BRASS DRAIN WITH STAINLESS STEEL STRAINER, MOLDED SOAP TRAY, ANTIBACTERIAL SHOWER CURTAIN AND HOOKS.
96-1-X	SYMMONS TEMPTROL PACKAGED SHOWER VALVE CONSISTING OF TEMPTROL PRESSURE-BALANCED MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, CLEAR-FLO SHOWER HEAD, ARM AND FLANGE. INTEGRAL SERVICE STOPS ALLOWS WATER SHUT-OFF AT VALVE FOR SERVICE WITH INTEGRAL CHECK VALVES IN EACH SUPPLY. ENCLOSURE TO BE PRE-DRILLED FOR MIXING VALVE AND SHOWER HEAD. EQUIVALENT UNIT BY AQUARIUS IS ACCEPTABLE.
SH-2	SHOWER (ADA)
C4136BF-FUS 2"	AQUABATH 36"x36"x78" SHOWER STALL WITH FOLD UP SEAT, ACRYLIC, ADA COMPLIANT, OUTSIDE DIMENSIONS OF 41"x37"x84", UNIT TO BE INSTALLED IN A PIT 2" DEEP BY 41" WIDE x 37-1/2" FRONT TO BACK. SEE ARCHITECTURAL DRAWINGS. VERIFY FLOOR TYPE FOR OPTIONAL 3/4" THRESHOLD. ENCLOSURE TO BE PRE-DRILLED AND EQUIPPED WITH TWO (2) GRAB BARS, CURTAIN ROD, TWO (2) WALL BRACKETS FOR HAND HELD SHOWER, RIBBED FLOOR, SELF CAULKING BRASS DRAIN WITH STAINLESS STEEL STRAINER, MOLDED SOAP TRAY, HAND HELD SHOWER SET, 30" SLIDE BAR, THERMOSTATIC CONTROL VALVE, ANTIBACTERIAL SHOWER CURTAIN AND HOOKS, AND SEAT BELT.
96-1-X	SYMMONS TEMPTROL PACKAGED SHOWER VALVE CONSISTING OF TEMPTROL PRESSURE-BALANCED MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, CLEAR-FLO SHOWER HEAD, ARM AND FLANGE. INTEGRAL SERVICE STOPS ALLOWS WATER SHUT-OFF AT VALVE FOR SERVICE WITH INTEGRAL CHECK VALVES IN EACH SUPPLY.
LAV-1	UNDERCOUNTER LAVATORY
0496.221	AMERICAN STANDARD "OVALYN", UNDERCOUNTER MOUNT, 19-1/4"x16-1/4" BASIN WITH FRONT OVERFLOW. SUPPLIED WITH MOUNTING KIT.
ETF-610	SLOAN OPTIMA CHROME PLATED BRASS, SENSOR OPERATED ELECTRONIC HAND WASHING FAUCET.
2200-4E2805	CHICAGO "MARATHON" SINGLE LEVER, DECK MOUNTED FAUCET, .5 GPM, 4" CENTERS.
S-6080-OFG-SM	SYMMONS ULTRA-SENSE, BATTERY POWERED, SENSOR OPERATED LAVATORY FAUCET, .5 GPM, SINGLE HOLE MOUNTING WITH OFFSET GRID STRAINER DRAIN ASSEMBLY.
SR1912A C	BRASS CRAFT LOOSE KEY, CHROME PLATED ANGLE STOP, WITH 1/2" SWEAT INLET AND 3/8" O.D. COMPRESSION OUTLET WITH 3/8" x 11-1/2" LONG RISER AND SHALLOW CHROME PLATED WALL ESCUTCHEON.
510-1	DEARBORN 17-GAUGE CHROME PLATED TUBULAR BRASS P-TRAP WITH THREADED OR SLIP JOINT INLET AND OUTLET AND WALL ESCUTCHEON. INSULATED TAILPIECE, HOT AND COLD WATER SUPPLIES AND P-TRAP.
LAV-2	UNDERCOUNTER LAVATORY
0496.221	AMERICAN STANDARD "OVALYN", UNDERCOUNTER MOUNT, 19-1/4"x16-1/4" BASIN WITH FRONT OVERFLOW. SUPPLIED WITH MOUNTING KIT.
ETF-610	SLOAN OPTIMA CHROME PLATED BRASS, SENSOR OPERATED ELECTRONIC HAND WASHING FAUCET.
2200-4E2805	CHICAGO "MARATHON" SINGLE LEVER, DECK MOUNTED FAUCET, .5 GPM, 4" CENTERS.
S-6080-OFG-SM	SYMMONS ULTRA-SENSE, BATTERY POWERED, SENSOR OPERATED LAVATORY FAUCET, .5 GPM, SINGLE HOLE MOUNTING WITH OFFSET GRID STRAINER DRAIN ASSEMBLY.
SR1912A C	BRASS CRAFT LOOSE KEY, CHROME PLATED ANGLE STOP, WITH 1/2" SWEAT INLET AND 3/8" O.D. COMPRESSION OUTLET WITH 3/8" x 11-1/2" LONG RISER AND SHALLOW CHROME PLATED WALL ESCUTCHEON.
510-1	DEARBORN 17-GAUGE CHROME PLATED TUBULAR BRASS P-TRAP WITH THREADED OR SLIP JOINT INLET AND OUTLET AND WALL ESCUTCHEON. INSULATED TAILPIECE, HOT AND COLD WATER SUPPLIES AND P-TRAP.
S-1	SINK
SS-8242	ELKAY, 45"x27-1/2", 14 GAUGE STAINLESS STEEL DOUBLE BOWL SINK
LK-67-C	ELKAY REAR WALL MOUNTED SWING SPOUT FAUCET.
SR1912A C	BRASS CRAFT LOOSE KEY, CHROME PLATED ANGLE STOP, WITH 1/2" SWEAT INLET AND 3/8" O.D. COMPRESSION OUTLET WITH 3/8" x 11-1/2" LONG RISER AND SHALLOW CHROME PLATED WALL ESCUTCHEON.
510-1	DEARBORN 17-GAUGE CHROME PLATED TUBULAR BRASS P-TRAP WITH THREADED OR SLIP JOINT INLET AND OUTLET AND WALL ESCUTCHEON.
LK-27	ELKAY 1-1/2" DIAMETER WASTE AND TAILPIECE WITH CRUMBCUP STRAINER AND NEOPRENE STOPPER.

undermount

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION
LS-1	LAUNDRY SINK
FL-1	FIAT "SERV-A-SINK", SINGLE 20.4 GAL. COMPARTMENT, FLOOR MOUNTED, WITH LEG LEVELING DEVICES. INCLUDES DRAIN WITH STOPPER, WHITE MOLDED STONE, 21-1/2"x23"x13" DEEP, CAPABLE OF HANDLING 600 LBS.
213ILF	DELTA DECK MOUNTED WIDESPREAD 7" SPOUT AND (2) HANDLE DECK FAUCETS, AERATOR.
510-1	DEARBORN 17-GUAGE CHROME PLATED TUBULAR BRASS P-TRAP WITH THREADED OR SLIP JOINT INLET AND OUTLET AND WALL ESCUTCHEON.
HB-1	HOSE BIBB
26	WOODFORD COPPER-TO-HOSE, 3/4" MIP. HOSE BIBB, WITH 3/4" FEMALE SWEAT INLET INCLUDES BACKFLOW PREVENTER , ASSE STANDARD 1052 APPROVED. PROVIDED WITH METAL WHEEL HANDLE.
WH-1	WALL HYDRANT (EXTERIOR)
B67	WOODFORD HYDRANT SHALL BE NON-FREEZE, AUTOMATIC DRAINING WITH DOUBLE CHECK BACKFLOW PREVENTER, ASSE STANDARD 1052 APPROVED, WITH 3/4" INLET AND OUTLET. LOOSE TEE KEY TO BE FURNISHED WITH HYDRANT. EXTERIOR FINISH TO BE CHROME PLATED, HARDENED STAINLESS STEEL OPERATING STEM AND BRASS VALVE BODY.
WH-1	WALL HYDRANT (INTERIOR)
79	WOODFORD HYDRANT WITH DOUBLE CHECK BACKFLOW PREVENTER, ASSE STANDARD 1052 APPROVED, WITH 3/4" INLET AND OUTLET. LOOSE TEE KEY TO BE FURNISHED WITH HYDRANT. EXTERIOR FINISH TO BE CHROME PLATED, HARDENED STAINLESS STEEL OPERATING STEM AND BRASS VALVE BODY. 360° SWIVEL.
ESH-1	EMERGENCY EYE WASH/SHOWER STATION
SE-625	SPEAKMAN COMBINATION EMERGENCY SHOWER/EYEWASH, PEDESTAL MOUNTED, TEPID WATER PACKAGE, STAINLESS STEEL BOWL, (2) YELLOW ABS PLASTIC SPRAY OUTLETS WITH FLIP-TOP DUST CAPS, STAINLESS STEEL PUSH HANDLE, 8" STAINLESS STEEL SHOWER HEAD, SS TRIANGULAR PULL ROD, 1-1/4" NPT INLET. 20 GPM @ 30 PSI, CONFORMING TO ANSI-Z358.1.
SE-360	SPEAKMAN THERMOSTATIC SHOWER/EYEWASH MIXING VALVE, 3/4" INLET AND 1" OUTLET, 120°-180° HW INLET TEMPERATURE, 36 GPM, 65-95°F OUTLET TEMPERATURE. MINIMUM INLET PRESSURE OF 35 PSI. ROUGH BRONZE FINISH. SUPPLIED WITH INTEGRAL OUTLET TEMPERATURE GAUGE. INSTALL WITHIN 4-10 FEET FROM EYEWASH.
FD-1	FLOOR DRAIN - SLAB ON GRADE
2005L-A-NB-U-P050	JR SMITH CAST IRON BODY, SEEPAGE FLANGE, NOT FLASHED, 7" DIAMETER NICKEL BRONZE STRAINER WITH VANDAL-PROOF SCREWS; SPEEDI-SET OUTLET AND 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK
3151L-12	JR SMITH CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES, 8" DEEP, 12.5" SQUARE GRATE, NICKEL BRONZE RIM AND 1/2 GRATE, SEDIMENT BUCKET, FLASHING CLAMP. SPEEDI-SET OUTLET.
TD-1	TRENCH DRAIN
Z886	ZURN HIGH DENSITY POLYETHYLENE TRENCH DRAIN SYSTEM, 6" WIDE, CLASS C, DUCTILE IRON GRATE FLO THRU STYLE WITH 1.04% SLOPE.
CB-1	CATCH BASIN
Z-887-24-DGC-HD-Y-E4-IA	ZURN HIGH DENSITY POLYETHYLENE CATCH BASIN, 24"x24", CLASS C, DUCTILE IRON GRATE AND SEDIMENT BUCKET. INLET ADAPTER FOR Z886 TRENCH SYSTEM. 4" NO-HUB END OUTLET, EXTRA HEAVY DUTY FRAME ASSEMBLY WITH ANCHOR STUDS.
FCO	CLEANOUTS
4020	JR SMITH FLOOR CLEANOUT, CAST IRON CLEANOUT WITH, CUT-OFF FERRULE, NEOPRENE OR LEAD SEAL, BRONZE PLUG ADJUSTABLE HOUSING, ROUND NICKEL BRONZE SECURED FRAME WITH FLUSH LID, COMPLETELY VANDAL-PROOF. PROVIDE RECESSED COVER FOR TILE AS REQUIRED.
WCO	
4472	JR SMITH WALL CLEANOUT, CAST IRON CLEANOUT TEE, COUNTERSUNK BRONZE PLUG WITH ROUND SECURED 18 GAUGE STAINLESS STEEL COVER AND STAINLESS STEEL VANDAL-PROOF SETTING SCREW. MOUNTING HEIGHT: 36" AFF UNLESS OTHERWISE NOTED.
CO	
4510	JR SMITH RISER CLEANOUT, CAST IRON CLEANOUT FERRULE WITH ROUGH BRONZE CLEANOUT PLUG FOR USE ABOVE CEILING. EXPOSED VERTICAL LINES OR HORIZONTAL LINES. ENSURE AMPLE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM. PROVIDE BOLTED COVER PLATE CLEANOUTS ON VERTICAL RAINWATER LEADERS ONLY.
GCO	
4250	JR SMITH GRADE CLEANOUT, CAST IRON AND GASKETED CLEANOUT AND DOUBLE FLANGED HOUSING, HEAVY DUTY CAST IRON COVER WITH LIFTING RING. HOUSING SHALL BE SET IN 12"x12"x4" THICK CONCRETE PAD FLUSH WITH FINISHED GRADE.
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER
LF009	WATTS REDUCED PRESSURE ZONE ASSEMBLY. LEAD FREE FUSED EPOXY COATED CAST IRON

tile and floor drain for SH-1 and SH-2

WATER SOFTENER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	NOMINAL CAPACITY GPM	PEAK CAPACITY Δ PSI	PEAK CAPACITY GPM	BACKWASH GPM	INLET	OUTLET	DIMENSIONS	REMARKS
WS	1	MARLO	MGTE-60-1-1/4	25	15	34	25	3.2	1-1/4	1-1/4	60x18x60
WS	2	MARLO	MGTE-60-1-1/4	25	15	34	25	3.2	1-1/4	1-1/4	60x18x60

1 DUPLEX SYSTEM. DESIGN FLOW = 25 GPM.
2 PROVIDE ELECTRICAL RECEPTACLE WITHIN 5' OF WATER SOFTENER.
3 ALLOW A MINIMUM OF 24" ABOVE BRINE TANK FOR FILLING.
4 SOFTENER TANK SIZE = 13"□ x 54" H.
5 BRINE TANK SIZE = 18"□ x 40" H.

ELECTRIC WATER HEATER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	GAL.	RECOVERY	TEMP RISE (°F)	AIC RATING	HEAT CAPACITY	V/PH	REMARKS

1 SIMULTANEOUS / NON-SIMULTANEOUS OPERATION.
2 PROVIDE HOLDRITE #50 - SWHP-W WALL PLATFORM.

GAS WATER HEATER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	GAL.	RECOVERY	TEMP RISE (°F)	HEAT SOURCE	INPUT	V/PH	REMARKS
GWH	2	LOCHINVAR	PRNG40 40ES	40	74	90	NATURAL GAS	40,000		
GWH	1	LOCHINVAR	SWR150N	90	175	100	NATURAL GAS	125,000		

1 PROVIDE CONDENSATE NEUTRALIZATION KIT.
2 PROVIDE CONCENTRIC VENT KIT.
3 COORDINATE FLUE REQUIREMENTS WITH MECHANICAL CONTRACTOR.

POINT-OF-USE ELECTRIC WATER HEATER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	GPM	TEMP RISE (°F)	HEAT CAPACITY	V/PH	REMARKS

1 MOUNT BELOW COUNTER
2 INSTANTANEOUS WATER HEATER XX°F RISE AT XX GPM
3 COORDINATE WITH ELECTRICAL CONTRACTOR

THERMOSTATIC MIXING VALVE SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	MIN. FLOW	Δ PSI	GPM	INLET	OUTLET	REMARKS
TMV		ACORN	MV17-1	0.5	10	15	1/2"	1/2"	1,2,3
TMV	2	ACORN	MV17-2	1	10	15	3/4"	1"	1,2,3

1 THERMOSTATIC MIXING VALVE COMPLIES WITH ASSE 1017.
2 PROVIDE WITH WALL MOUNTING BRACKET.
3 SEE DETAIL ON SHEET P0.02.

PRESSURE REDUCING VALVE SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	Size	GPM.	INLET	OUTLET	PSI (DELTA)	REMARKS
1	TEXT								
2									

SAND AND OIL INTERCEPTOR SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	GAL.	GPM	INLET	OUTLET	VENT	REMARKS
SOI	1	STRIEM	OS-50	57	50	4"	4"	3"	ALL
SOI	2	STRIEM	OS-50	57	50	4"	4"	3"	ALL

1 PRECAST CONCRETE INTERCEPTOR.
2 MANHOLE COVERS MUST BE HEAVY TRAFFIC RATED.

HOT WATER RECIRC. PUMP SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	GPM	FT. HD	FLANGE	AIC RATING	V/PH	REMARKS
RP	1								
RP	2								

1 PUMP CURVE 'B' / PROPORTIONAL PRESSURE MODE.
2 DISCONNECT BY ELECTRICAL CONTRACTOR.
3 ALL BRONZE / STAINLESS STEEL.

BOOSTER PUMP SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	GPM	FT. HD	HP	RPM	AIC RATING	V/PH	REMARKS
BP		GRUNDFOS	MULTI-B CME 10-1	95	60	1.5	-	-	208/1	1,2
BP	1	GRUNDFOS	MULTI-B CME 10-1	95	60	1.5	-	-	208/1	1,2
BP	2	GRUNDFOS	MULTI-B CME 10-1	95	60	1.5	-	-	208/1	1,2

1 DUPLEX SYSTEM.
2 FLOW TEST. 80 PSI STATIC. 70 PSI RESIDUAL. 1340 GPM.

WATER HAMMER ARRESTER

MANUFACTURER	MODEL NO.	CONN. SIZE	UNIT SIZE	FIZTURE UNIT CAPACITY
SIOUX CHIEF	652-A	1/2"	A	1-11
SIOUX CHIEF	653-B	3/4"	B	12-32
SIOUX CHIEF	654-C	1"	C	33-60

PRESSURE WASHER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	GPM	HP	V/PH	REMARKS
PW	1	HOTSY	5835SS	9.5	20	460/3	
1	TEXT						

PLUMBING SYMBOLS LEGEND

WC-1	FIXTURE TYPE - FIXTURE NUMBER
	CONNECTION OF NEW TO EXISTING
	DEMOLITION OF PIPE, EQUIPMENT, FIXTURES, ETC
D	DRAIN
CW	COLD WATER (CW)
HW	HOT WATER SUPPLY (HW)
HWR	HOT WATER RETURN (REC)
S	SOFT WATER
H	HARD WATER
T	TEMPERED WATER
140	140 DEGREE HOT WATER
GW	GREASE WASTE
SW	SANITARY WASTE ABOVE GRADE
V	SANITARY VENT
SSD	SUB SURFACE DRAINAGE
ST	STORM DRAINAGE PIPING ABOVE GRADE
OD	OVERFLOW DRAINAGE PIPING ABOVE GRADE
	PIPING BELOW GRADE (SEE PLANS)
P	PLUMBING TRAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	WATER HAMMER ARRESTER
	BALL VALVE
	FLOW CONTROL/BALANCE VALVE
	PRESSURE RELIEF VALVE
	CHECK VALVE
	UNION
	PRESSURE GAUGE
	STRAINER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
	DOUBLE GATE DOUBLE CHECK (DGDC)
TP	TRAP PRIMER
	THRU-FLOOR
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
CI	CAST IRON
CO	CLEAN OUT
EX	EXISTING
FFE	FINISHED FLOOR ELEVATION
IE	INVERT ELEVATION
NTS	NOT TO SCALE
RI	ROUGH IN
TYP	TYPICAL
VTR	VENT THRU ROOF

PLUMBING FIXTURE CONNECTION SCHEDULE

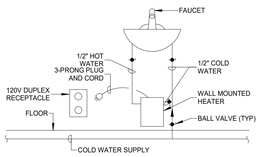
MARK	FIXTURE	SAN.	VENT.	C.W.	H.W.	REMARKS
WC-1	WATER CLOSET	4"	2"	1"	-	HEIGHT 15"
WC-2	WATER CLOSET	4"	2"	1"	-	HEIGHT 17"
UR-1	URINAL	2"	1-1/2"	3/4"	-	HEIGHT 24"
UR-2	URINAL (ADA)	2"	1-1/2"	3/4"	-	HEIGHT 17"
LAV-1	LAVATORY	2"	1-1/2"	1/2"	1/2"	-
LAV-2	LAVATORY	2"	1-1/2"	1/2"	1/2"	ADA
S-1	SINK (SINGLE BOWL)	2"	1-1/2"	1/2"	1/2"	-
S-2	SINK (DOUBLE BOWL)	2"	1-1/2"	1/2"	1/2"	DISPOSAL
BS-1	BAR SINK	2"	1-1/2"	1/2"	1/2"	-
MSB-1	MOP SERVICE BASIN	3"	1-1/2"	1/2"	1/2"	-
SH-1	SHOWER	2"	1-1/2"	1/2"	1/2"	ADA
SH-2	SHOWER	2"	1-1/2"	1/2"	1/2"	-
EWC-1	ELECTRIC WATER COOLER	2"	1-1/2"	1/2"	-	ADA
EWC-1	ELECTRIC WATER COOLER WITH BOTTLE FILTER	2"	1-1/2"	-	-	ADA
FD-1	FLOOR DRAIN	3"	2"	-	-	-
FD-2	FLOOR DRAIN	3"	2"	-	-	W/ FUNNEL
FS-1	FLOOR SINK	3"	2"	-	-	1/2" GRATE
AD-1	AREA DRAIN	4"	1-1/2"	-	-	-
WH-1	WALL HYDRANT	-	-	3/4"	-	NON-FREEZE HEIGHT 36"
HB-1	HOSE BIB	-	-	3/4"	-	HEIGHT 36"
RH-1	ROOF HYDRANT	-	-	3/4"	-	NON-FREEZE
WB-1	WATER BOX	-	-	1/2"	-	W/ W.H.A.

PLUMBING GENERAL DEMOLITION NOTES:

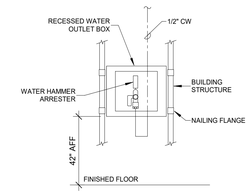
1. SEE RISER DIAGRAMS FOR ADDITIONAL DEMOLITION DETAILS.
2. THESE GENERAL DEMOLITION NOTES APPLY TO ALL DEMOLITION WORK.
3. KEYED NOTES ON PLANS WITH MATCH LINES ARE THE SAME ON BOTH SIDES OF MATCH LINES. KEYED NOTES MAY NOT BE USED ON BOTH SIDE OF THE MATCH LINE.
4. DEMOLISH PIPING, FIXTURES, AND EQUIPMENT SHOWN CROSS HATCHED.
5. THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
6. CONTRACTOR SHALL USE CAUTION WHEN REMOVING PIPING, EQUIPMENT AND FIXTURES TO AVOID DAMAGE TO ELECTRICAL WIRING THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO PIPING.
7. WHEREVER EXISTING EQUIPMENT, PIPING, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC., UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING SURFACES.
8. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
9. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION. REFER TO MEP AND SPRINKLER DEMOLITION PLANS FOR MEP AND SPRINKLER DEMOLITION.
10. THE OWNER WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY ACMs (ASBESTOS CONTAINING MATERIALS, PCBs OR OTHER HAZARDOUS MATERIALS) PRESENTLY EXISTING WITHIN THE AREAS AFFECTED BY THE PROJECT SCOPE, THAT WOULD BE REQUIRED TO BE REMOVED FOR THE WORK. ABATEMENT WORK, IF REQUIRED, IS NOT PART OF THIS CONTRACT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY ACMs (ASBESTOS CONTAINING MATERIALS, PCBs OR OTHER HAZARDOUS MATERIALS) EXISTING WITHIN THE AREAS AFFECTED BY THE PROJECT SCOPE, THAT ARE REQUIRED TO BE REMOVED FOR THE WORK. ABATEMENT WORK IS PART OF THIS CONTRACT.
12. MEP DEMOLITION WORK: VERIFY EXISTING SERVICES TO REMAIN. ALL NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION TO PREVENT DAMAGE TO PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS TO REMAIN. DUCTWORK, PIPING, ELECTRICAL LINES, AND PLUMBING SERVING OTHER AREAS SHALL PROVIDE FOR UNINTERRUPTED SERVICE TO THOSE AREAS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE OWNER. COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR AND OWNER'S ON SITE REPRESENTATIVE.

PLUMBING GENERAL RENOVATION NOTES:

1. THESE GENERAL NOTES APPLY TO ALL WORK.
2. KEYED NOTES ON PLANS WITH MATCH LINES ARE THE SAME ON BOTH SIDES OF MATCH LINES. KEYED NOTES MAY NOT BE USED ON BOTH SIDES OF THE MATCH LINE.
3. THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
4. PIPING ON PLANS IS SHOWN FOR GENERAL ARRANGEMENT. SEE DETAILS FOR CONNECTIONS TO UNITS.
5. WHERE PIPE SIZES ARE NOT SHOWN ON PLANS, SEE SIZES SHOWN ON ISOMETRICS. IF PIPE SIZES ON PLANS CONFLICT WITH SIZES SHOWN ON ISOMETRIC DIAGRAMS, SIZES ON DIAGRAMS SHALL TAKE PRECEDENCE.
6. SLOPE STORM AND OVERFLOW PIPING 1/8" PER FT. IN DIRECTION OF FLOW UNLESS OTHERWISE INDICATED.
7. SLOPE ALL SANITARY PIPES SMALLER THAN 4" AT 1/4" PER FT. AND SANITARY PIPES 4" OR LARGER AT 1/8" PER FT. UNLESS OTHERWISE INDICATED.
8. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PREVENT THE INSTALLATION OF CONDUITS, PIPING, LIGHTING, OR OTHER OBSTRUCTIONS UNDER OR ADJACENT TO HVAC EQUIPMENT THAT OBSTRUCTS ACCESS TO COILS, MOTORS, VALVES, FILTERS, ETC., OR OTHER HVAC COMPONENTS NEEDING MAINTENANCE OR OPERATIONS ACCESS.
9. NO PIPING SHALL BE INSTALLED IN OR ABOVE ELECTRICAL, ELEVATOR MACHINE OR GENERATOR ROOMS UNLESS OTHERWISE INDICATED.
10. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ROOF, OVERFLOW, AND FLOOR DRAINS WITH ARCHITECTURAL AND STRUCTURAL PLANS.
11. COORDINATE PLUMBING WITH ALL MECHANICAL DUCTWORK AND PIPING AND SPRINKLER PIPING BEFORE COMMENCEMENT OF WORK.
12. LOCATIONS OF NEW FIXTURES, EQUIPMENT, PIPING, AND ASSOCIATED ITEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL SEE ARCHITECTURAL PLANS AND FIELD VERIFY EXACT LOCATIONS AND ELEVATION OF ALL WORK. PROVIDE OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., REQUIRED FOR A COMPLETE SYSTEM.
13. NO CHANGES IN CONTRACT PRICE WILL BE ALLOWED FOR MINOR CHANGES IN LAYOUT OR LOCATION REQUIRED TO AVOID INTERFERENCES, OBSTRUCTIONS, ETC. CONTRACT PRICE CHANGES WILL BE CONSIDERED ONLY FOR CHANGES IN THE SCOPE OF THE PROJECT REQUIREMENTS. ALL SUCH SCOPE CHANGES AND PRICE REVISIONS MUST BE AUTHORIZED IN WRITING. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
14. THE WORK ON THIS PROJECT WILL BE PHASED. SEE THE SCHEDULE IN THE SPECIFICATIONS FOR SEQUENCE OF PHASES, HOURS OF CONSTRUCTION AND ADDITIONAL REQUIREM



15 INSTANTANEOUS WATER HEATER DETAIL
NOT TO SCALE



10 WATER OUTLET BOX DETAIL (WB-1)
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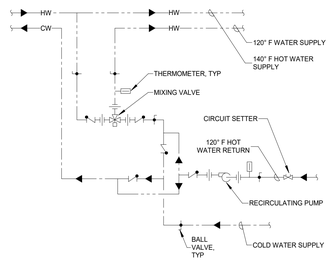
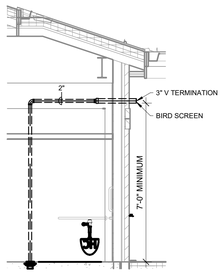


5 HEATER, MIXING VALVE AND CIRC. PUMP PIPING
NOT TO SCALE



19 SIDEWALL VENT DETAIL
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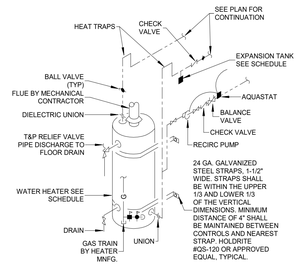
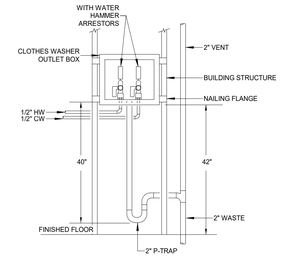


14 GAS WATER HEATER DETAIL
NOT TO SCALE



9 WASHER BOX PIPING DETAIL (WB-3)
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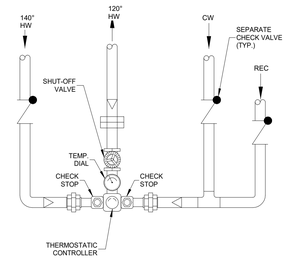
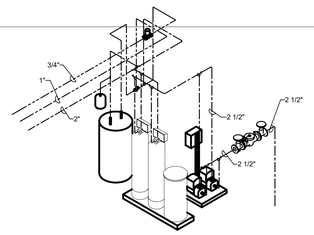
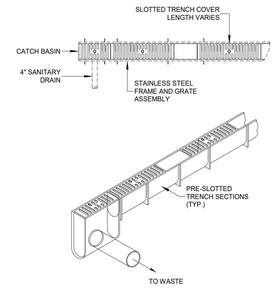


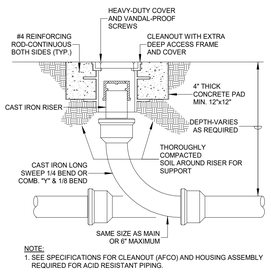
4 THERMOSTATIC MIXING VALVE DETAIL
NOT TO SCALE



PLUMBING ISOMETRIC PLAN - WATER/FP ROOM 159
21
NOT TO SCALE

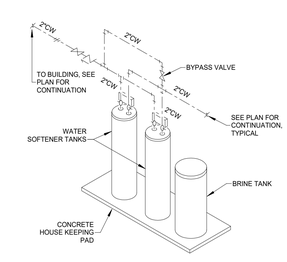


18 TRENCH DRAIN DETAIL
NOT TO SCALE

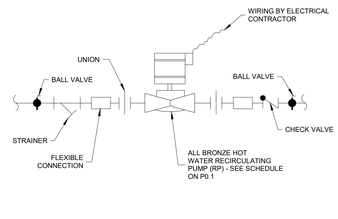


NOTE:
1. SEE SPECIFICATIONS FOR CLEANOUT (AFCO) AND HOUSING ASSEMBLY REQUIRED FOR ACID RESISTANT PIPING.

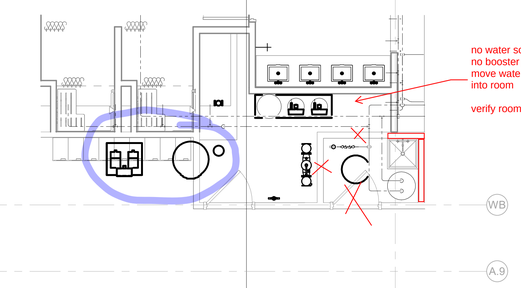
13 GRADE CLEANOUT DETAIL (GCO)
NOT TO SCALE



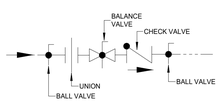
8 WATER SOFTENER DETAIL
NOT TO SCALE



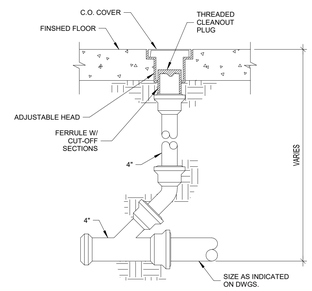
3 RECIRCULATING PUMP PIPING DETAIL
NOT TO SCALE



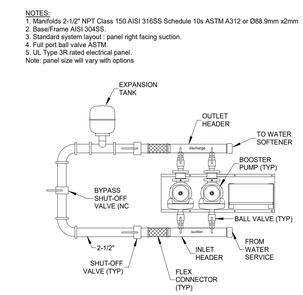
20 ENLARGED PLUMBING DOMESTIC WATER PLAN - MECH. ROOM E119
SCALE: 1/4" = 1'-0"
NORTH



17 BALANCE VALVE DETAIL
NOT TO SCALE

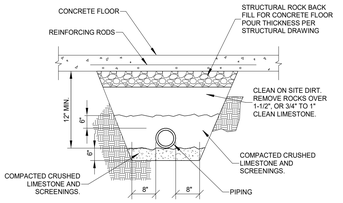


12 FLOOR CLEANOUT DETAIL (FCO)
NOT TO SCALE



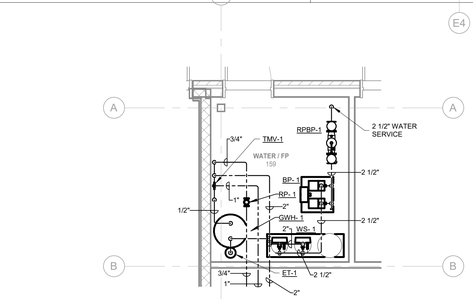
NOTES:
1. Manifolds 2-1/2" NPT Class 150 AISI 316SS Schedule 10s ASTM A312 or Ø88.9mm x2mm
2. Base/Frame AISI 304SS.
3. Standard system layout - panel right facing suction.
4. Full port ball valve ASTM.
5. UL Type 3R rated electrical panel.
Note: panel size will vary with options

7 BOOSTER PUMP DETAIL
NOT TO SCALE

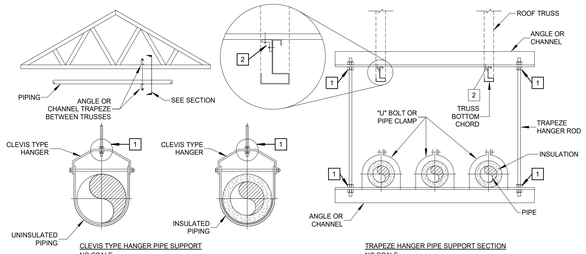


NOTES:
1. MEET ASTM D2321 FOR PLASTIC PIPE UNDERGROUND INSTALLATION.
2. COMPACTION SHALL BE AT LEAST 90% MEASURED BY THE PROCTOR TEST, ASTM D698.
3. BACKFILL SHALL BE CONSTRUCTED IN UNIFORM LAYERS OF APPROXIMATELY 6 TO 8 INCHES IN LOOSE DIMENSIONS. EACH LAYER SHALL BE COMPACTED.

2 PIPE TRENCH BELOW SLAB ON GRADE
NOT TO SCALE



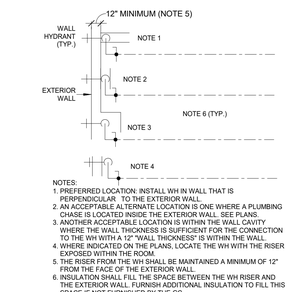
11 ENLARGED PLUMBING DOMESTIC WATER PLAN - WATER/FP ROOM 159
SCALE: 1/4" = 1'-0"
NORTH



1 PROVIDE DOUBLE LOCK NUT ON THREADED ROD TO CARRY PIPE HANGERS. WHERE THREADED ROD SCREWS INTO UPPER ATTACHMENT, PROVIDE LOCK NUT.

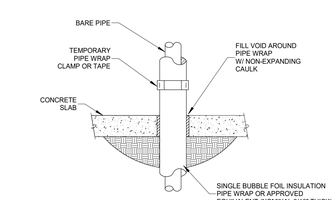
2 RETAINING CLIP REQUIRED IN SEISMIC RESTRAINED AREAS.

16 CONCENTRICALLY LOADED JOIST ATTACHMENT DETAIL
NOT TO SCALE



NOTES:
1. PREFERRED LOCATION: INSTALL WH IN WALL THAT IS PERPENDICULAR TO THE EXTERIOR WALL.
2. AN ACCEPTABLE ALTERNATE LOCATION IS ONE WHERE A PLUMBING CHASE IS LOCATED INSIDE THE EXTERIOR WALL. SEE PLANS.
3. ANOTHER ACCEPTABLE LOCATION IS WITHIN THE WALL CAVITY WHERE THE WALL THICKNESS IS SUFFICIENT FOR THE CONNECTION TO THE WH WITH A 12" "WALL THICKNESS" IS WITHIN THE WALL.
4. WHERE INDICATED ON THE PLANS, LOCATE THE WH WITH THE RISER EXPOSED WITHIN THE ROOM.
5. THE RISER FROM THE WH SHALL BE MAINTAINED A MINIMUM OF 12" FROM THE FACE OF THE EXTERIOR WALL.
6. INSULATION SHALL FILL THE SPACE BETWEEN THE WH RISER AND THE EXTERIOR WALL. FURNISH ADDITIONAL INSULATION TO FILL THIS SPACE IF NOT FURNISHED BY THE GC.

6 WALL HYDRANT DETAIL
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL COORDINATE FLOOR OPENING WITH ALL TRADES.

1 CONCRETE SLAB ON GRADE PENETRATION
NOT TO SCALE

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PLUMBING DETAILS

P0.2

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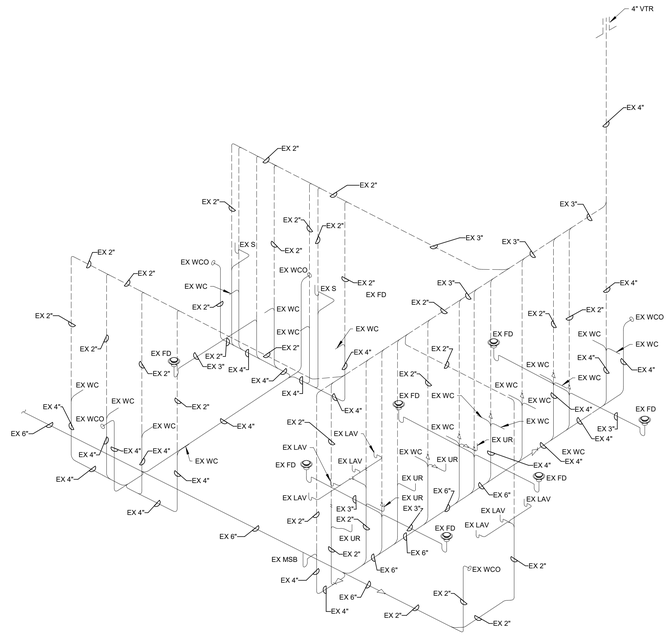
FIRST FLOOR PLUMBING DEMOLITION PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
NORTH



PLUMBING WASTE & VENT ISOMETRIC PLAN - EXISTING
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Drawi PLUMBING FIRST FLOOR UNDERGROUND DEMOLITION PLAN - OPERATIONS

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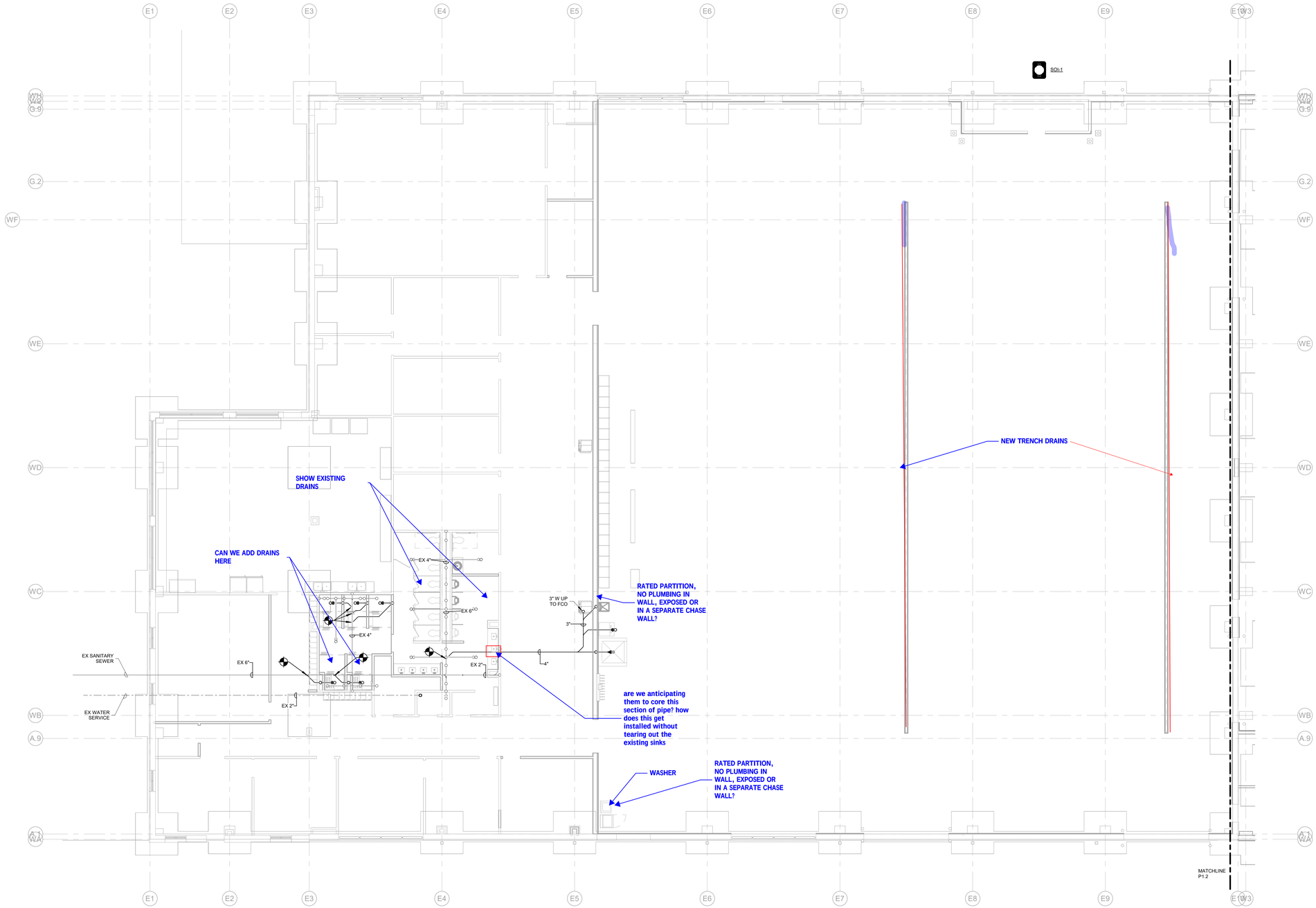

FIRST FLOOR PLUMBING UNDERGROUND PLAN - OPERATIONS

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

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PLUMBING UNDERGROUND PLAN - OPERATIONS

P1.1

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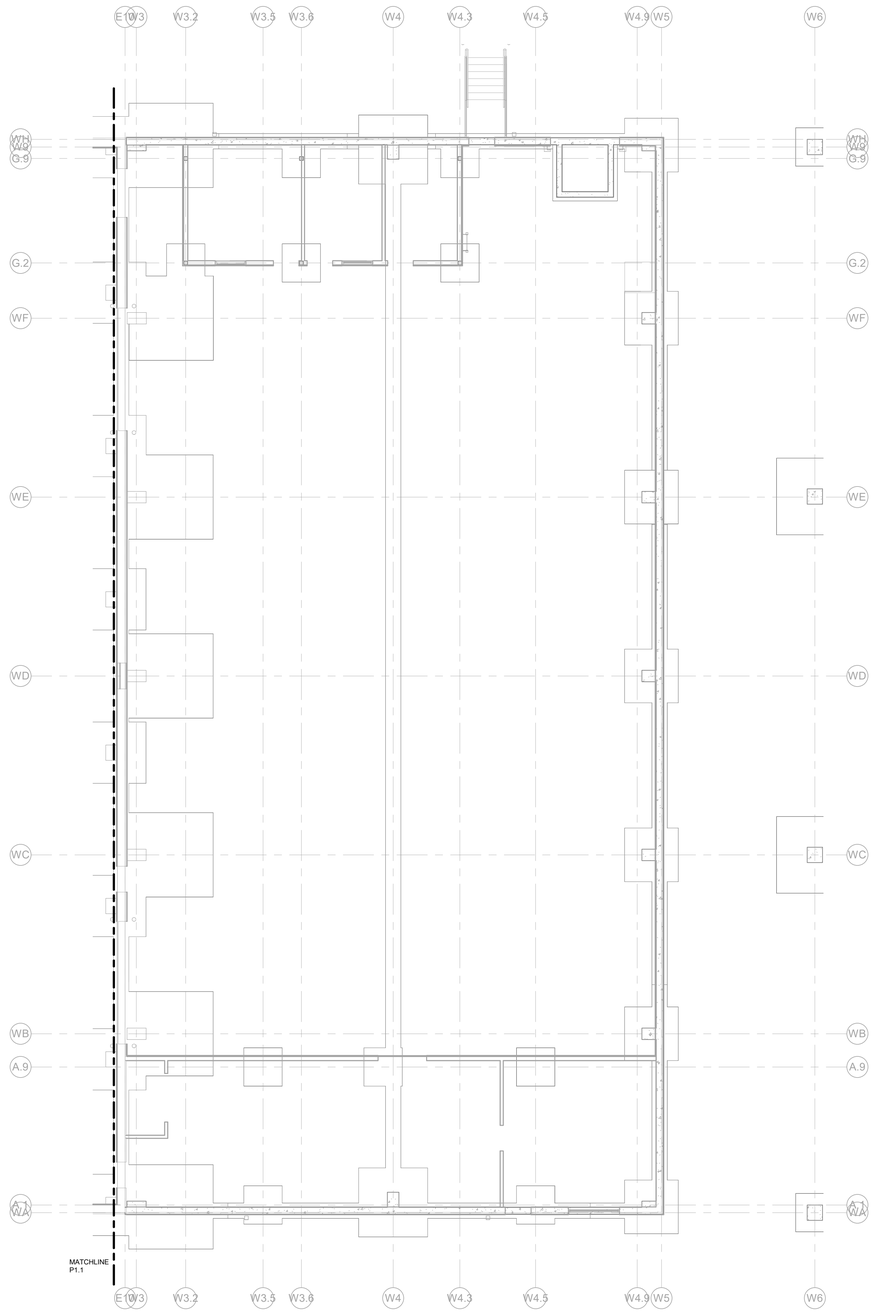

FIRST FLOOR PLUMBING UNDERGROUND PLAN - WAREHOUSE
SCALE: 1/8" = 1'-0"

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PLUMBING UNDERGROUND PLAN - WAREHOUSE

P1.2

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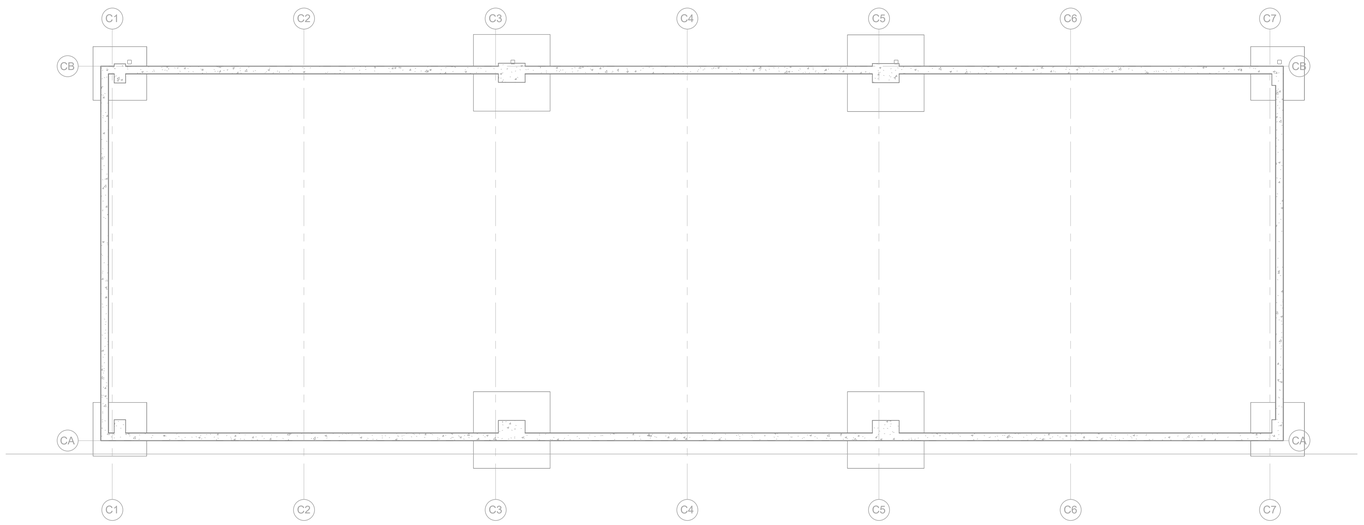

FIRST FLOOR PLUMBING UNDERGROUND PLAN - PUMP HOUSE
SCALE: 1/8" = 1'-0"
NORTH

FIRST FLOOR PLUMBING UNDERGROUND PLAN - COVERED STORAGE
SCALE: 1/8" = 1'-0"
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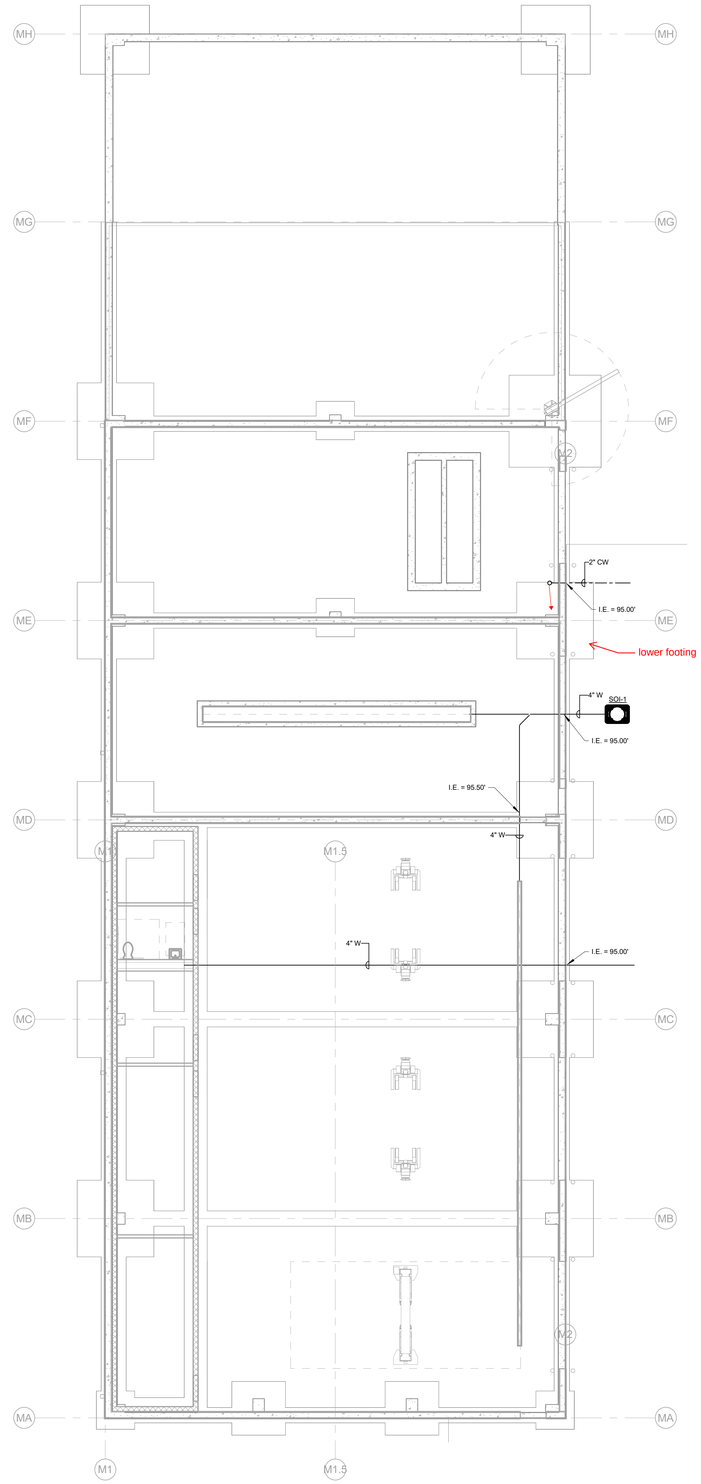

FIRST FLOOR PLUMBING UNDERGROUND PLAN - MAINTENANCE
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PLUMBING UNDERGROUND PLAN - MAINTENANCE AND COVERED STORAGE

P1.3

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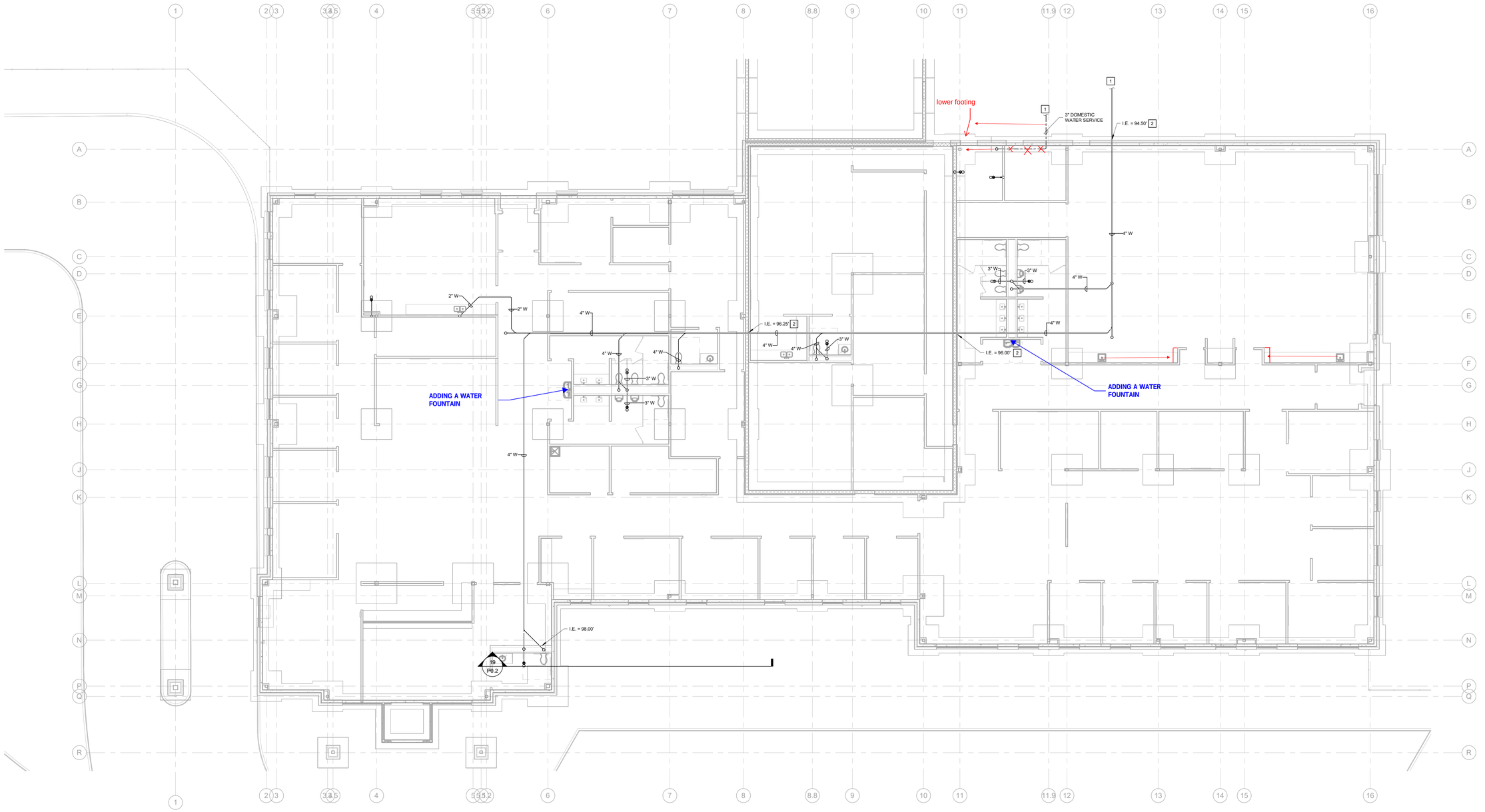
PLUMBING GENERAL NOTES:

1. REFER TO SHEET P0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

PLUMBING KEYED NOTES:

1 SEE CIVIL DRAWINGS FOR CONTINUATION.

2 COORDINATE WITH STRUCTURAL DETAIL 20/ S0.4.



FIRST FLOOR PLUMBING UNDERGROUND PLAN - OFFICE
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PLUMBING UNDERGROUND PLAN - OFFICE

P1.4

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FIRST FLOOR PLUMBING WASTE AND VENT PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
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PLUMBING FIRST FLOOR WASTE AND VENT PLAN - OPERATIONS

P2.1

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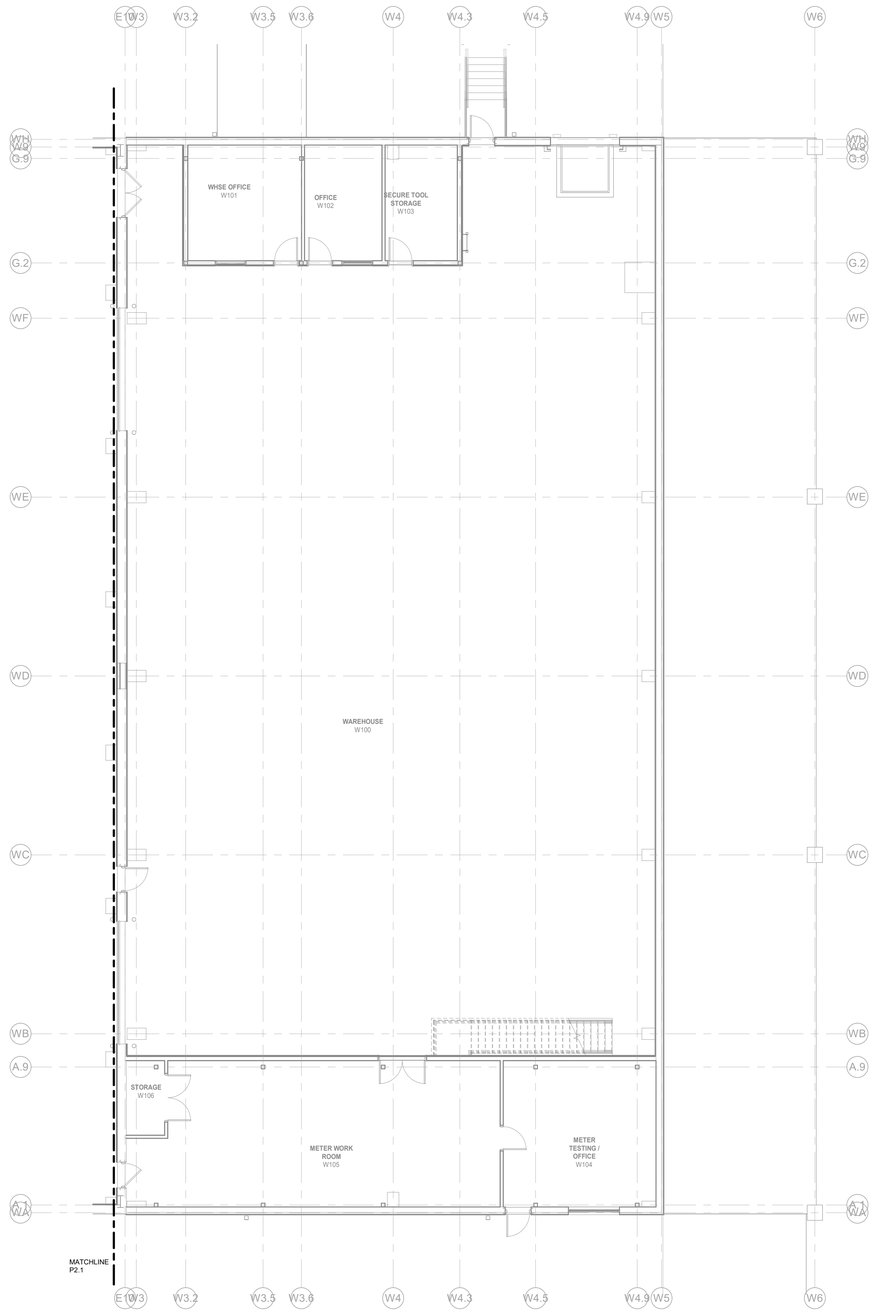

FIRST FLOOR PLUMBING WASTE AND VENT PLAN - WAREHOUSE
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P2.2

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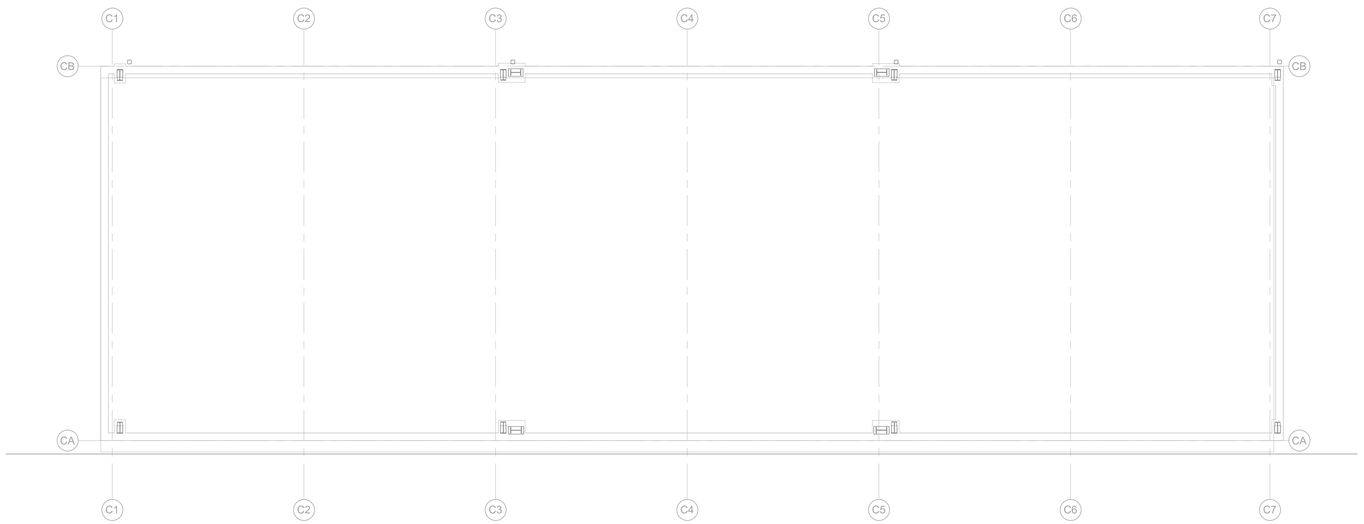
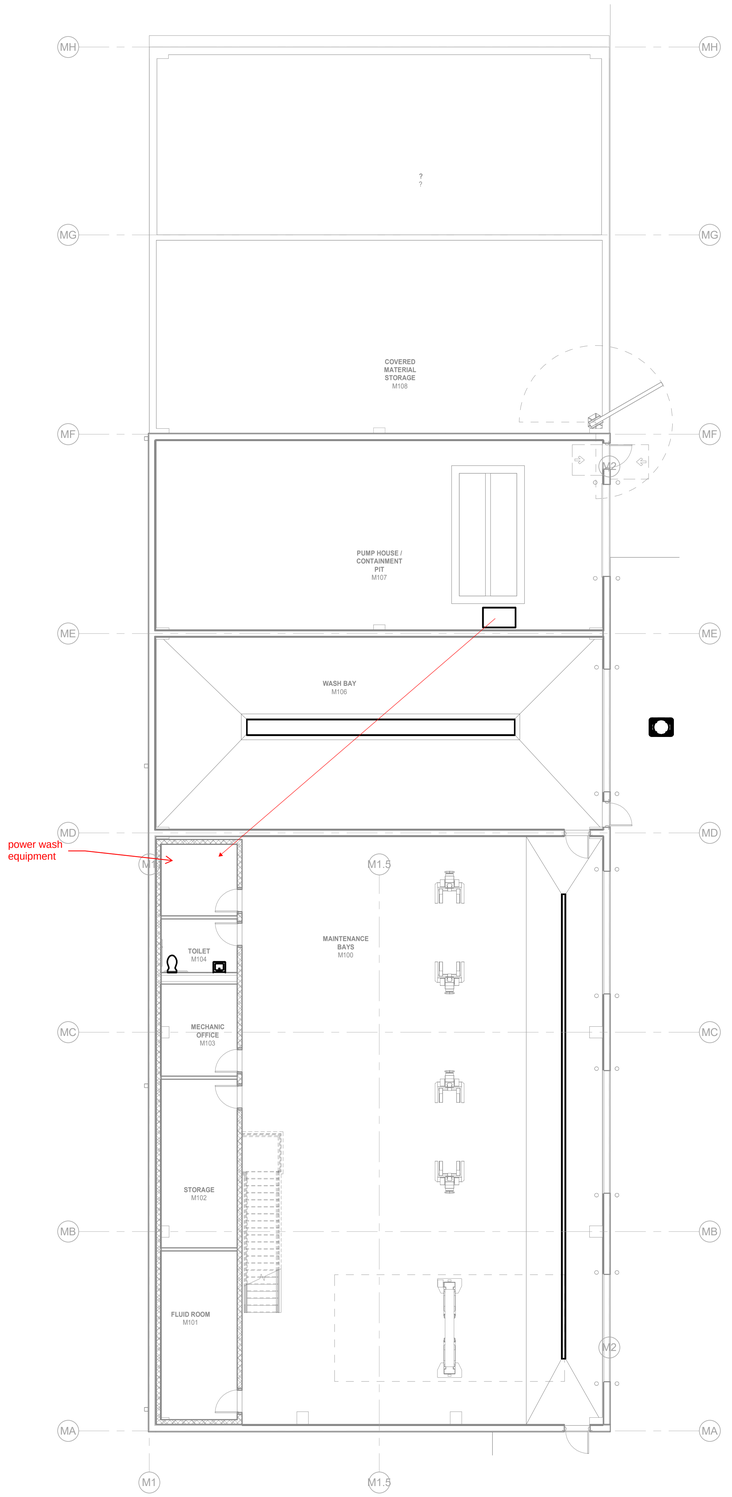


FIRST FLOOR PLUMBING WASTE AND VENT PLAN - PUMP HOUSE
SCALE: 1/8" = 1'-0"
NORTH

FIRST FLOOR PLUMBING WASTE AND VENT PLAN - COVERED STORAGE
SCALE: 1/8" = 1'-0"
NORTH



FIRST FLOOR PLUMBING WASTE AND VENT PLAN - MAINTENANCE
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PLUMBING FIRST FLOOR WASTE AND VENT PLAN - MAINTENANCE AND COVERED STORAGE

P2.3

SSC JOB# 2025456_NOT FOR CONSTRUCTION

GENERAL MEP ICC 500 NOTES:

1. THE DASHED LINE INDICATES THE EXTENTS OF THE ICC 500 STORM SHELTER. ANY PENETRATIONS 2" IN DIAMETER OR GREATER AND ANY RECTANGULAR PENETRATIONS LARGER THAN 3-1/2" SQUARE INCHES MUST BE PROTECTED IN ACCORDANCE WITH ICC 500 REQUIREMENTS, ARTICLE 309.1.

GENERAL NOTES:

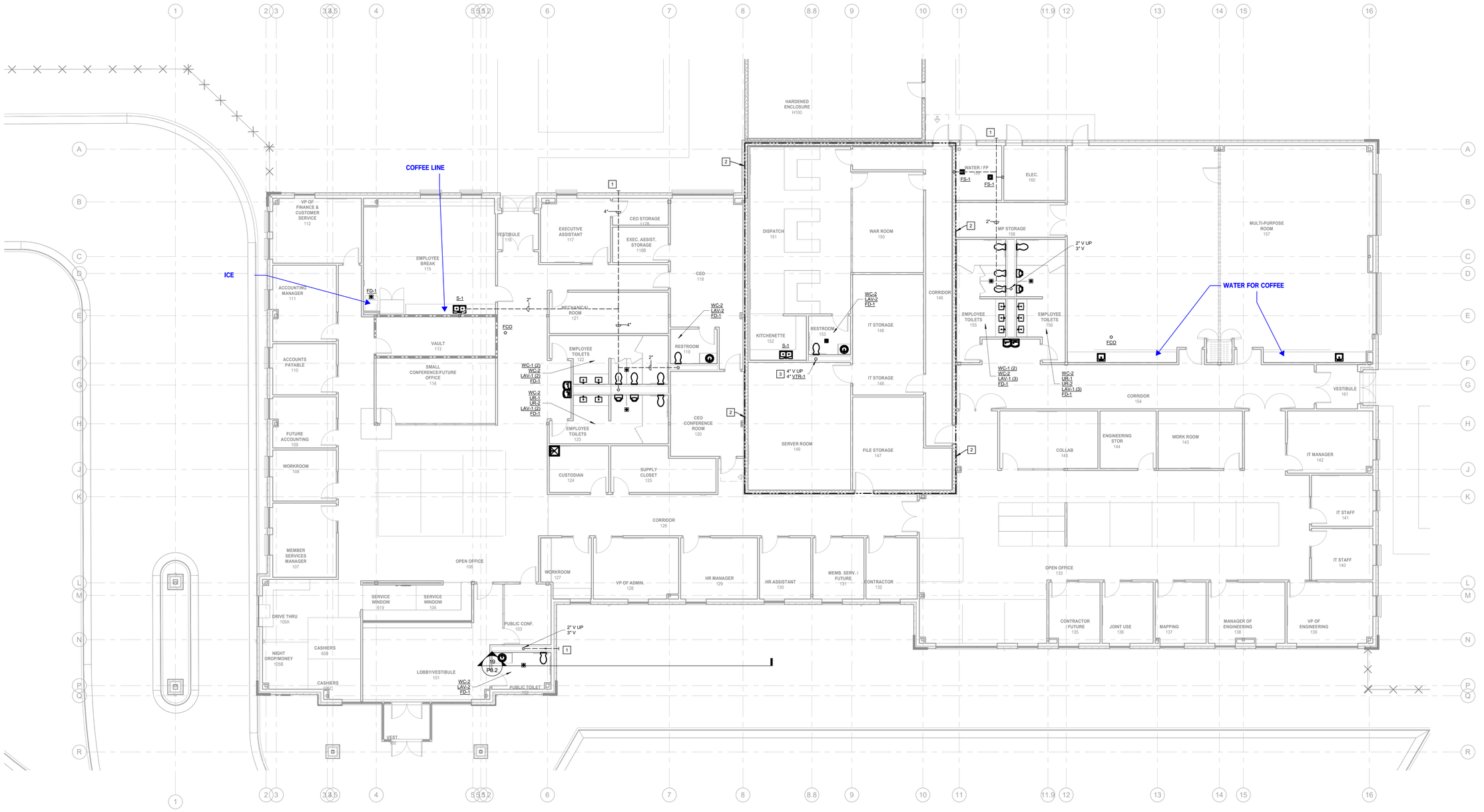
1. REFER TO SHEET x0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

KEYED NOTES:

1 - SIDE WALL VENT.

2 - STORM SHELTER EXTENTS, SEE ARCH DRAWINGS. MINIMUM SANITATION FACILITIES ACHIEVED BY (1) OWNER FURNISHED CHEMICAL TOILET STORED WITHIN STORM SHELTER.

3 - ALL STORM SHELTER PENETRATIONS LARGER THAN 2-1/6" DIA. SHALL BE PROTECTED FROM IMPACT. VTR-1 TO BE INSTALLED AT PENETRATION OF HARDENED SHELTER LID.



FIRST FLOOR PLUMBING WASTE AND VENT PLAN - OFFICE
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Drawing Title:
PLUMBING FIRST FLOOR WASTE AND VENT PLAN - OFFICE

P2.4

SSC JOB# 2025456_NOT FOR CONSTRUCTION

FIRST FLOOR PLUMBING DOMESTIC WATER PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
NORTH

M+H ARCHITECTS

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D.B.A. M+H Architects
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OF AUTHORITY #3012

TAYLOR COUNTY RECC

PROJECT ADDRESS
CAMPBELLSVILLE, KY 42718

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PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - OPERATIONS

P3.1

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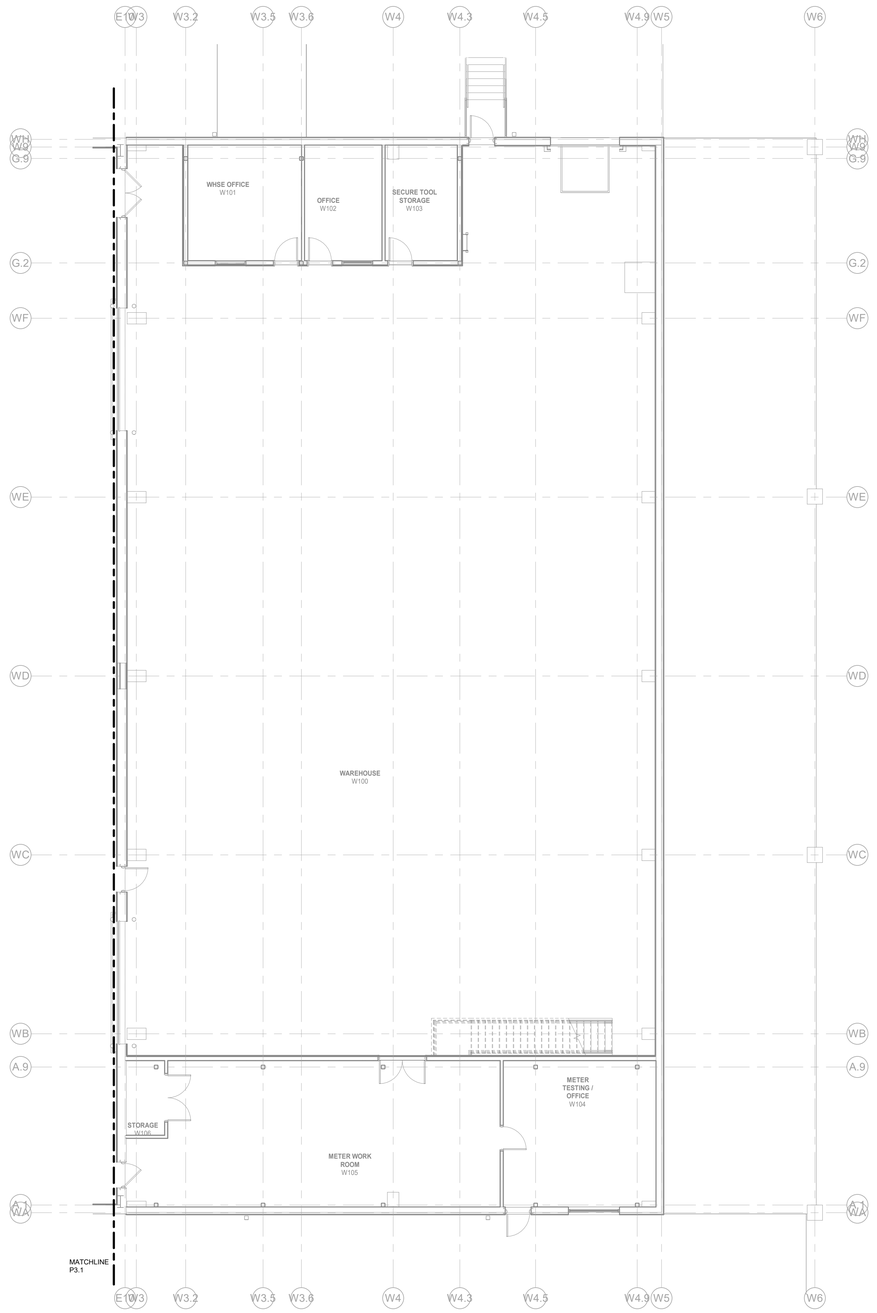

FIRST FLOOR PLUMBING DOMESTIC WATER PLAN - WAREHOUSE
SCALE: 1/8" = 1'-0"
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Drawing Title:
PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - WAREHOUSE

P3.2

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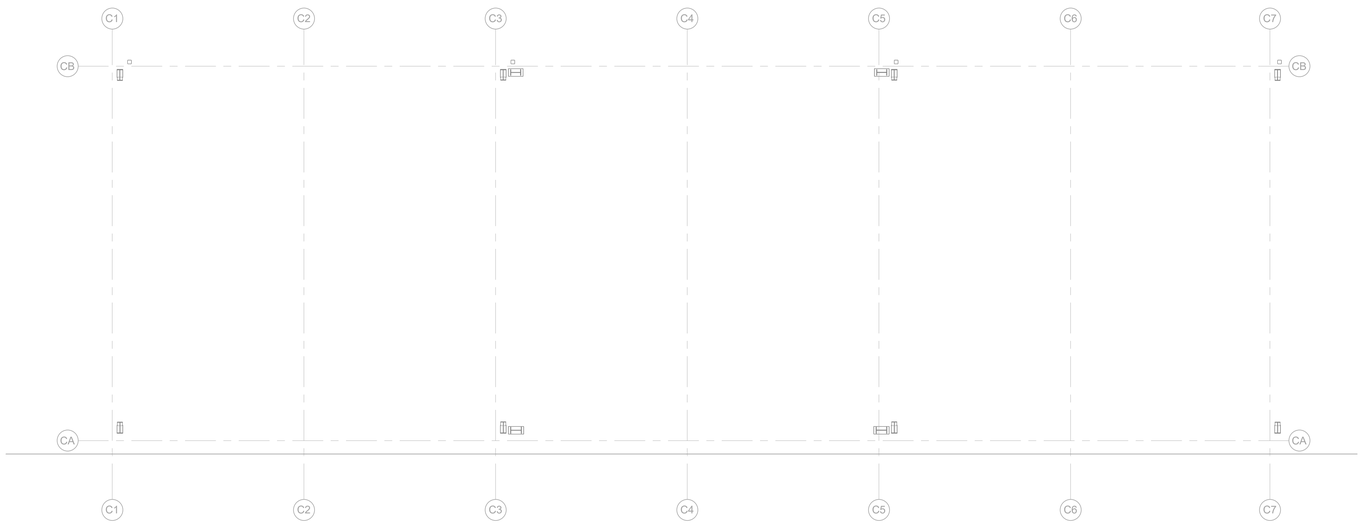
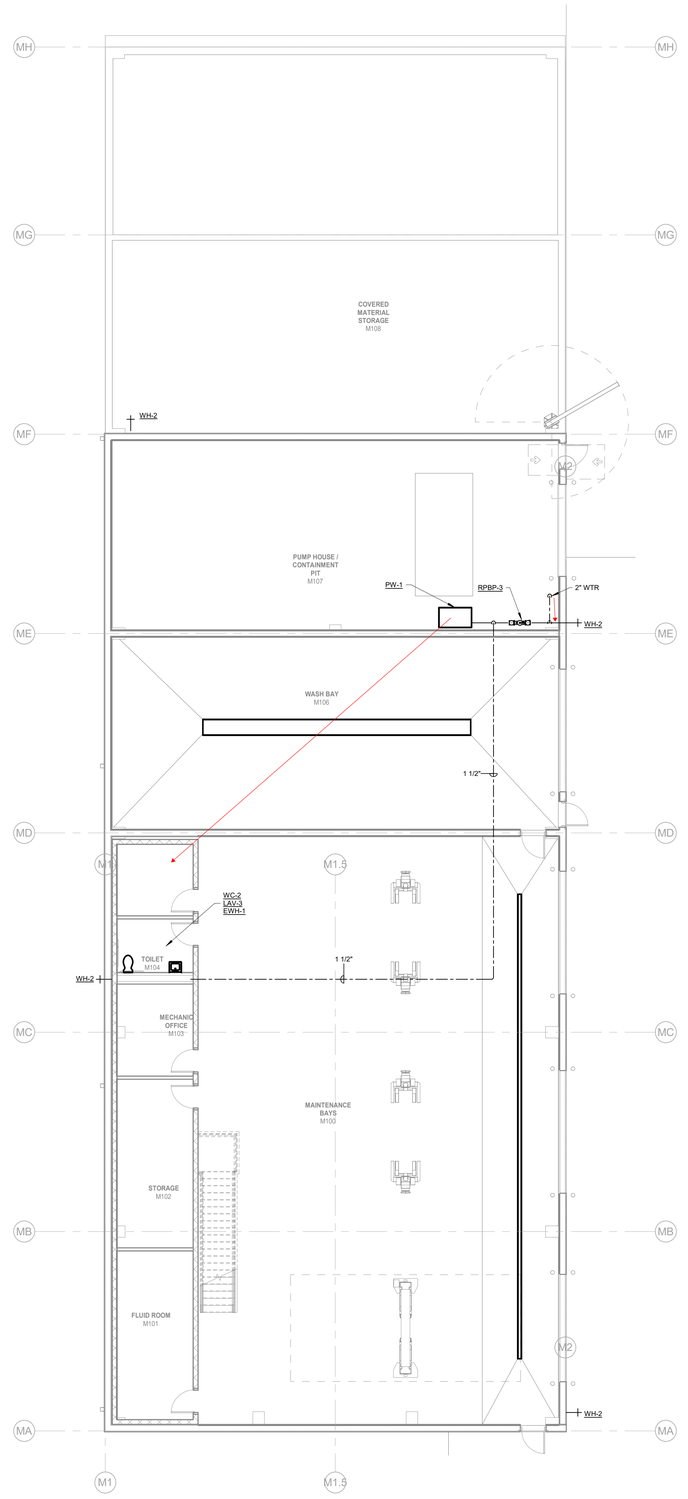


FIRST FLOOR PLUMBING DOMESTIC WATER PLAN - PUMP HOUSE
SCALE: 1/8" = 1'-0"
NORTH

FIRST FLOOR PLUMBING DOMESTIC WATER PLAN - COVERED STORAGE
SCALE: 1/8" = 1'-0"
NORTH



FIRST FLOOR PLUMBING DOMESTIC WATER PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
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Drawi PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - MAINTENANCE AND COVERED STORAGE

P3.3

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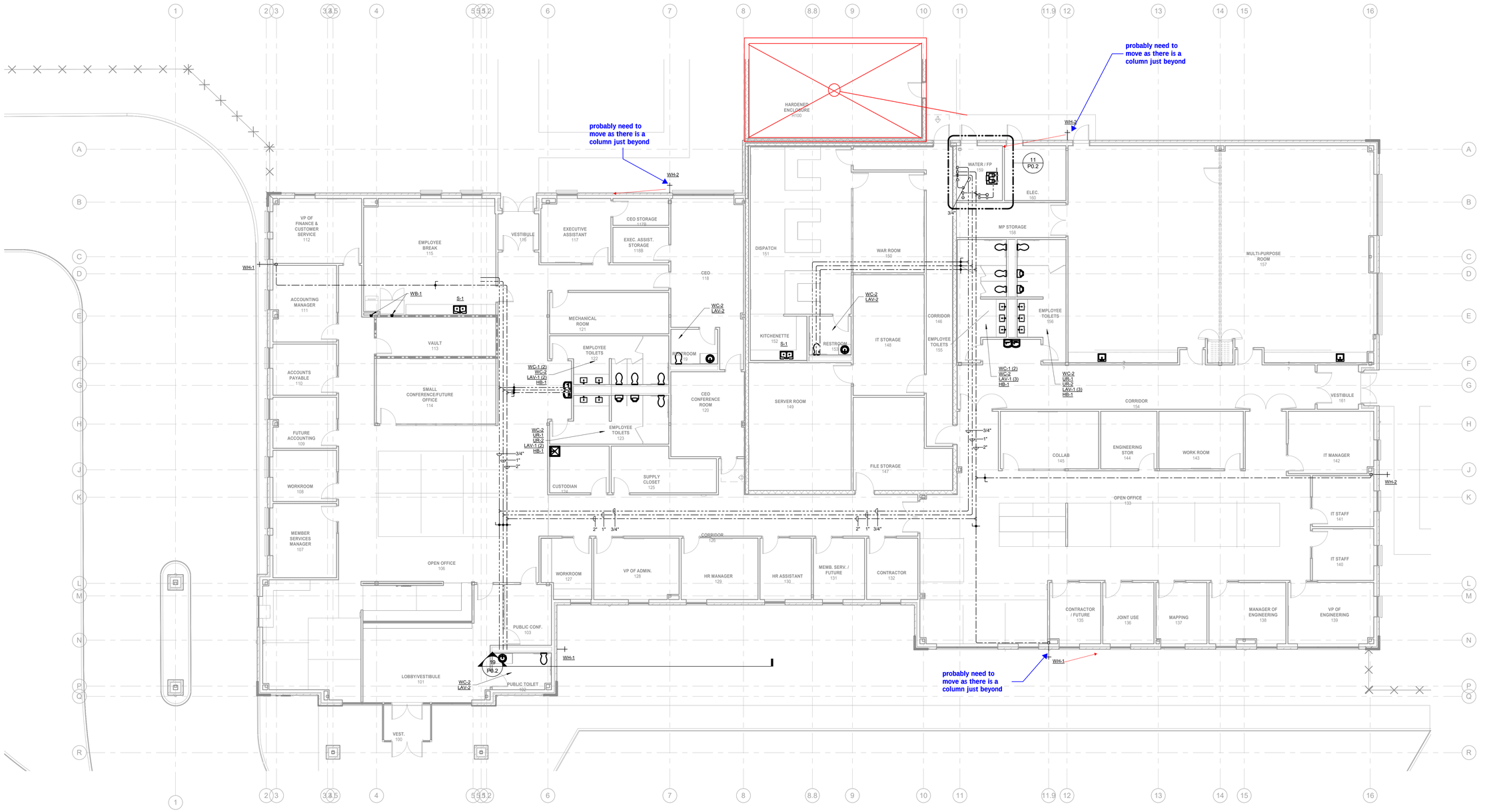

FIRST FLOOR PLUMBING DOMESTIC WATER PLAN - OFFICE

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

NORTH

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PLUMBING FIRST FLOOR DOMESTIC WATER PLAN - OFFICE

P3.4

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PLUMBING ROOF PLAN - OFFICE

P4.1

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DESIGN CRITERIA:

1. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2018 KENTUCKY BUILDING CODE AND THE 2015 INTERNATIONAL BUILDING CODE (IBC)

2. DESIGN LOADS

   A. ROOF:
      a. DEAD LOAD:
         - OFFICE: 25 PSF
         - PEMB COLLATERAL DL:
           @ TYP.: 5 PSF
           @ MAINTENANCE: 7 PSF

      b. LIVE LOAD = 20 PSF MINIMUM

3. RISK CATEGORY: III

4. SNOW LOADS:

   A. GROUND SNOW LOAD, P_g: 15 PSF
   B. EXPOSURE FACTOR, C_e: 1.0
   C. IMPORTANCE FACTOR, I_s: 1.1
   D. THERMAL FACTOR, C_t: 1.0
   E. SLOPE FACTOR, C_s: 1.0
   F. FLAT ROOF SNOW LOAD, P_f: 11.6 PSF
   G. MINIMUM ROOF SNOW LOAD, P_m: 16.5 PSF
   H. DRIFT SURCHARGE LOAD: [REF S0.X]

5. WIND LOADS:

   A. ULTIMATE DESIGN WIND SPEED, V_{ult} (3-SEC GUST): 120 MPH
   B. NOMINAL DESIGN WIND SPEED, V_{asd}: 93 MPH
   C. EXPOSURE CATEGORY: C
   D. ENCLOSURE CATEGORY: ENCLOSED
   E. INTERNAL PRESSURE COEFFICIENT, GC_{pi}: ± 0.18
   F. DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING NOT SPECIFICALLY DESIGNED WITHIN THE CONSTRUCTION DOCUMENTS: [REF S0.X]
      a. ROOF EFFECTIVE AREA = 50 FT²
         - ZONE 1': +16.0, -[XX.X]
         - ZONE 1: +16.0, -[XX.X]
         - ZONE 2': +16.0, -[XX.X]
         - ZONE 2: +16.0, -[XX.X]
         - ZONE 2e: +16.0, -[XX.X]
         - ZONE 2r: +16.0, -[XX.X]
         - ZONE 3: +16.0, -[XX.X]

      b. WALL EFFECTIVE AREA = 50 FT²
         - ZONE 4: +[XX.X], -[XX.X]
         - ZONE 5: +[XX.X], -[XX.X]

6. WIND LOADS HARDENED AREA:

   A. DESIGN WIND SPEED, V_{ult} (3-SEC GUST): 250 MPH
   B. EXPOSURE CATEGORY: C
   C. ENCLOSURE CATEGORY: ENCLOSED
   D. INTERNAL PRESSURE COEFFICIENT, GC_{pi}: ± 0.55
   E. IMPACT LOAD (15 LB 2x4 LUMBER) @:
      a. 100 MPH AT VERTICAL SURFACES
      b. 67 MPH AT HORIZONTAL SURFACES
   F. DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING NOT SPECIFICALLY DESIGNED WITHIN THE CONSTRUCTION DOCUMENTS: [REF S0.X]
      a. ROOF EFFECTIVE AREA = 50 FT²
         - ZONE 1': +[XX.X], -[XX.X]
         - ZONE 1: +[XX.X], -[XX.X]
         - ZONE 2': +[XX.X], -[XX.X]
         - ZONE 3: +[XX.X], -[XX.X]

      b. WALL EFFECTIVE AREA = 50 FT²
         - ZONE 4: +[XX.X], -[XX.X]
         - ZONE 5: +[XX.X], -[XX.X]

7. EARTHQUAKE LOADS:

   A. SEISMIC IMPORTANCE FACTOR, I_E: 1.25
   B. MAPPED SPECTRAL ACCELERATION FOR SHORT PERIOD, S_S: 0.191
   C. MAPPED SPECTRAL ACCELERATION FOR 1 SEC PERIOD, S_1: 0.105
   D. SITE CLASS: D
   E. DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIOD, S_{DS}: 0.203
   F. DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1 SEC PERIOD, S_{D1}: 0.166
   G. SEISMIC DESIGN CATEGORY: C
   H. OFFICE BUILDING:
      a. BASIC SEISMIC-FORCE RESISTING SYSTEM:
         - STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

      b. RESPONSE MODIFICATION COEFFICIENT, R: 3
      c. DEFLECTION AMPLIFICATION FACTOR, C_d: 3
      d. SEISMIC RESPONSE COEFFICIENT, C_S: [0.XXX]
      e. DESIGN BASE SHEAR, V: [X.X] KIPS
   I. WAREHOUSE, MAINTENANCE AND COVERED STORAGE:
      a. BASIC SEISMIC-FORCE RESISTING SYSTEM:
         - DETERMINED BY PEMB MANUFACTURER
   J. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
   K. EXISTING BUILDINGS NOT EVALUATED FOR CURRENT SESMIC CREITERIA.

STEEL DECK:

1. GENERAL

   A. METAL DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.

   B. SEE PLANS FOR DECK TYPES AND GAUGES.

   C. LAP DECK 4" MINIMUM AT SPLICES CENTERED ON SUPPORT.

   D. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.

2. ROOF DECK

   A. 1 1/2" DEEP (WIDE RIB) DECK AND ROLLED OF STEEL SHEETS CONFORMING TO ASTM A653, NO METAL ROOF DECK SHALL HAVE SECTION PROPERTIES PER FOOT OF WIDTH LESS THAN THE FOLLOWING:
      a. 20 GAUGE: I_P=0.197 IN⁴, I_N=0.217 IN⁴, S_P=0.224 IN³, S_N=0.229 IN³, f_y= 50 KSI
      b. 18 GAUGE: I_P=0.277 IN⁴, I_N=0.290 IN⁴, S_P=0.306 IN³, S_N=0.318 IN³, f_y= 50 KSI

   B. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CEILINGS, PIPES, DUCTS, EQUIPMENT, ETC., CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.

   C. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

3. COMPOSITE METAL DECK

   A. UNLESS NOTED OTHERWISE, TEMPORARY SHORING OF COMPOSITE DECK IS NOT REQUIRED FOR ANTICIPATED CONSTRUCTION LOAD (WET CONCRETE WEIGHT PLUS 20 PSF CONSTRUCTION LOAD). SEE SPECIFICATIONS FOR DEFLECTION LIMITATION. ALLOWABLE CONSTRUCTION LOADS SHALL BE SHOWN ON THE ERECTION DRAWINGS

   B. CONTRACTOR SHALL FURNISH THE ADDITIONAL CONCRETE DUE TO WET CONCRETE DEFLECTION OF THE COMPOSITE DECK AND BEAMS.

   C. DECK SHOP DRAWINGS SHALL INDICATE THE TYPE, SIZE, SHEAR VALUE, AND LAYOUT OF SHEAR CONNECTORS (S.C.) REQUIRED FOR COMPOSITE BEAMS. SEE SPECIFICATIONS AND COMPOSITE BEAM NOTES FOR S.C. REQUIREMENTS.

   D. THE DECK ACTING COMPOSITELY WITH THE SLAB SHALL BE CAPABLE OF SUPPORTING BOTH THE FINAL DESIGN LIVE LOAD AND SUPERIMPOSED DEAD LOAD SPECIFIED ON THESE DRAWINGS. NO METAL FLOOR DECK USED IN THE BUILDING SHALL HAVE SECTION PROPERTIES PER FOOT OF WIDTH LESS THAN THE FOLLOWING:
      a. 2" COMPOSITE STEEL DECK MUST BE:
         - 20 GAUGE: I_P=0.409 IN⁴, I_N=0.407 IN⁴, S_P=0.326 IN³, S_N=0.337 IN³, f_y= 50 KSI
         - 18 GAUGE: I_P=0.557 IN⁴, I_N=0.557 IN⁴, S_P=0.485 IN³, S_N=0.500 IN³, f_y= 50 KSI

   E. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF FLOOR OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

   F. WELD STUDS THROUGH METAL DECK.

   G. ELECTRICAL CONDUIT SHALL BE ROUTED BELOW METAL DECK. NO CONDUIT, PIPING, JUNCTION BOXES, OR OTHER ITEMS SHALL BE ALLOWED TO BE EMBEDDED IN CONCRETE SLAB WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

   H. DECK SUPPLIER TO PROVIDE DECK CLOSURE WHERE REQUIRED FOR CONCRETE POUR.

   I. THE CONTRACTOR SHALL PLACE CONCRETE FOR SLABS SO THAT THE FINISH SURFACE IS SCREEDED LEVEL WITH AN ELEVATION WITHIN 1/4" OF THE TOP OF SLAB ELEVATION SHOWN ON THE PLANS.

   J. SLABS SHALL HAVE A TROWELED FINISH AND AS A MINIMUM BE TRUE PLANES WITHIN 1/2" IN 10 FEET , AS DETERMINED BY A 10 FOOT STRAIGHTEDGE PLACED ANYWHERE ON THE SLAB IN ANY DIRECTION.

   K. CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT SO AS TO CONTROL FINISH ELEVATIONS WITHIN THE SPECIFIED LIMITS. NO MORE THAN 1/2" OF ADDITIONAL CONCRETE THICKNESS SHALL BE POURED TO MAINTAIN FLOOR FLATNESS OR LEVELNESS. IF SUCH A SITUATION OCCURS THE GC SHALL STOP POUR, LET DECK HARDEN AND FINISH WITH A TOPPING SLAB.

FOUNDATIONS:

1. GENERAL

   A. FOUNDATION DESIGN IS BASED UPON GEOTECHNICAL ENGINEERING REPORT PREPARED BY
      a. [INSERT GEOTECH ENGINEER]
      b. DATED [MONTH XX, 20XX].
      c. REPORT # [XX]

   B. FOUNDATION DESIGN IS BASED UPON THE INTERNATIONAL BUILDING CODE (YEAR LISTED IN THE DESIGN CRITERIA) TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES UNTIL A SOILS INVESTIGATION REPORT ON THE SITE IS COMPLETE.

   C. ALL BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED TECHNICIAN PRIOR TO CONCRETE PLACEMENT. A QUALIFIED TECHNICIAN SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

   D. C.R.S.I. "MANUAL OF STANDARD PRACTICE" - DO NOT STICK DOWELS INTO WET CONCRETE. TIE IN PLACE PRIOR TO START OF CONCRETE PLACEMENT.

2. SHALLOW FOUNDATIONS

   A. FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE UNDER FULL SERVICE DEAD AND LIVE LOADS OF:
      a. ISOLATED FOOTINGS: 1,500 PSF
      b. STRIP FOOTINGS: 1,500 PSF

   B. SOIL MODULUS OF SUBGRADE REACTION, K_E: [XXX] PCI

   C. PASSIVE EQUIVALENT FLUID PRESSURE: [XXX] PCF/FT

   D. COEFFICIENT OF FRICTION: [0.XX]

   E. BACKFILL
      a. DO NOT BACKFILL BELOW GRADE WALLS UNTIL ADEQUATE TEMPORARY BRACING IS INSTALLED.
      b. BACKFILL UNDER FOUNDATION WITH CONCRETE OR AS APPROVED BY SOILS ENGINEER.

   F. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF [X'-X"] OR FROST DEPTH BELOW FINAL GRADE.
      a. FROST DEPTH: 2'-0" (ASSUMED)

   G. FOOTINGS MAY BE EARTH FORMED.

   H. DO NOT POUR CONCRETE FOOTINGS ON GROUND THAT IS FROZEN.

   I. FOUNDATIONS SHALL BE PROTECTED AGAINST FREEZING DURING PLACEMENT AND FOR 5 DAYS AFTER.

3. RETAINING WALLS

   a. ACTIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF [XX] PCF

   b. AT-REST DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF [XX] PCF

   c. PASSIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF [XX] PCF

   d. SURCHARGE LOADS ARE [XX] PSF AT THE SURFACE.

   e. COEFFICIENT OF SLIDING FRICTION:
      - CONCRETE/SOIL: [0.4]

   f. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.

   g. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

   h. DO NOT BACKFILL UNTIL CONCRETE HAS REACHED IT'S 28 DAY STRENGTH.

4. SITE DEVELOPMENT

   A. OVER-EXCAVATION ***REF GEOTECHNICAL REPORT***

      a. OVER-EXCAVATION OF EXPANSIVE SOILS AND REPLACEMENT OF NEW ENGINEERED FILL IS REQUIRED FOR THE SITE BELOW ALL FOOTINGS AND SLABS ON GRADE. ALL EXPANSIVE SOILS SHOULD BE REMOVED TO A MINIMUM OF [X'-X"] BELOW THE BOTTOM OF FOOTINGS AND [X'-X"] BELOW THE SLAB ON GRADE. OVER-EXCAVATION SHOULD EXTEND AT LEAST [X'-X"] BEYOND THE OUTSIDE EDGE OF THE FOOTINGS AND BUILDING FOOTPRINT. OVER-EXCAVATED AREAS SHOULD BE BACKFILLED WITH PROPERLY COMPACTED ENGINEERED FILL OR LEAN CONCRETE. WIDENING OF THE FOOTING EXCAVATION IS NOT REQUIRED WITH LEAN CONCRETE. FILL COMPOSITION AND COMPACTION PERCENTAGE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER. REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
         - AN ALTERNATE TO OVER-EXCAVATION AND REPLACEMENT IS THE ADDITION OF LIME IN COMBINATION WITH RE-COMPACTION. REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. ***REF GEOTECHNICAL REPORT***

   B. CUT & FILL ***REF GEOTECHNICAL REPORT***

      a. THE SITE IS ANTICIPATED TO HAVE CUTS AND FILL OF UP TO [XX']. THE FINAL GRADING PLANS SHOULD BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER IN ORDER TO EVALUATE THE POTENTIAL NEED FOR AND EXTENT OF EXPANSIVE SOIL REMEDIATION, STABILIZING SOFTER SOILS NEAR EXISTING GROUND SURFACE, TREATMENT OF EXPANSIVE SOILS DURING GRADING AND ANY NEED TO ALLOW TIME FOR SETTLEMENT IN DEEP FILL AREAS.

   C. SHALLOW ROCK ***REF GEOTECHNICAL REPORT***

      a. SHALLOW ROCK WAS ENCOUNTERED ON SITE. ROCK EXCAVATION WILL LIKELY BE REQUIRED FOR BUILDING FOUNDATIONS AND DEEP UTILITIES PLANNED AT THE SITE. ROCK SHOULD BE REMOVED AT LEAST [X'-X"] BELOW THE BOTTOM OF FOUNDATION TO AVOID EXCESSIVE DIFFERENTIAL SETTLEMENT. ENGINEERED FILL SHOULD BE USED TO BRING THE BEARING ELEVATION BACK UP TO THE BOTTOM OF FOOTING.

   D. UNDOCUMENTED FILL ***REF GEOTECHNICAL REPORT***

      a. THE SITE CONSISTS OF UNDOCUMENTED FILL MATERIAL AND SHOULD BE REMOVED AS PART OF THE OVER-EXCAVATION AND RE-COMPACTION EFFORTS PRIOR TO INSTALLING FOUNDATIONS. OVER-EXCAVATION AND PLACEMENT OF NEW ENGINEERED FILL SHOULD EXTEND AT LEAST [X'-X"] BEYOND THE EDGE OF FOOTINGS AND BUILDING FOOTPRINT.

COLD-FORMED STEEL ROOF TRUSSES:

1. TRUSS FABRICATOR TO DESIGN AND FURNISH CONNECTIONS FOR ALL TRUSS TO TRUSS CONNECTIONS AND TRUSS TO BEARING CONNECTIONS. PROVIDE WELDED CONNECTIONS FOR TRUSS TO BEARING.

2. TRUSS MANUFACTURER SHALL DESIGN TRUSSES, DRAG TRUSSES, OUTRIGGERS, STRUCTURAL FASCIA MEMBERS, ETC. AS DESCRIBED IN THE GENERAL NOTES AND FOR ANY ADDITIONAL LOADS NOTED ON THE PLAN.

3. TRUSS MFG TO PROVIDE FULLY DIMENSIONED TRUSS PLACEMENT PLAN SHOWING TRUSS SPACING AND OFFSETS. THE PLACEMENT PLAN WILL BE UTILIZED TO SET TRUSSES IN THE FIELD. THE PLACEMENT PLAN MUST ALSO BE COMMUNICATED TO THE STEEL FABRICATOR RESPONSIBLE FOR SUPPLYING EMBED PLATES.

4. TRUSSES SHALL BE STAGGERED AT INTERIOR BEARINGS AND HAVE FULL BEARING OVER THE EMBED PLATE IN THE CMU WALL. SOME TRUSSES MAY BUTT END TO END AND ARE TO HAVE THEIR END VERTICALS CONTINUOUSLY CONNECTED TOGETHER. SEE THE ROOF PLAN.

5. TRUSS MANUFACTURER SHALL COORDINATE THIS PLAN WITH ARCHITECTURAL PLAN FOR VAULTS, OUTRIGGERS, FULL-HEIGHT CMU WALLS, ETC.

6. TRUSS LAYOUT IS FOR SCHEMATIC PURPOSES ONLY. TRUSS MANUFACTURER TO COORDINATE FINAL LAYOUT WITH ARCHITECT AND STRUCTURAL ENGINEER. TRUSS MFG. TO SUBMIT PRELIMINARY FRAMING PLAN & PROPOSED CONNECTION DETAILS (PRIOR TO SHOPS) FOR APPROVAL AND COORDINATION.

7. TRUSS MANUFACTURER SHALL SUBMIT A PERMANENT TRUSS BRACING PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATIONS.

8. TRUSS MANUFACTURER SHALL SUBMIT ENGINEERED TRUSS DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION.

9. TRUSSES SHALL BE DESIGNED PER THE APPLICABLE AISI SP14 AND ALL OTHER WORK SHALL CONFORM TO AISI S202.

10. SEISMIC DESIGN CATEGORY D REQUIRES SEISMIC BRACING OF MEP SYSTEMS. TRUSSES TO BE DESIGNED FOR [100#] LB PERPENDICULAR LOAD AT ANY POINT OF BOTTOM CHORD AND [500] LB PARALLEL LOAD ALONG BOTTOM CHORD OF TRUSS. SEE TYPICAL DETAILS FOR FURTHER INFORMATION.

CONCRETE:

1. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE WITH THE FOLLOWING:

   A. FILL SLABS & STAIR PAN FILL
      a. STRENGTH, f'_c: 3000 PSI
      b. DENSITY, ρ_c: 145 PCF
      c. WATER/CEMENT RATIO: 0.50
   B. SLABS ON METAL DECK:
      a. STRENGTH, f'_c: 4000 PSI
      b. DENSITY, ρ_c: 145 PCF
      c. WATER/CEMENT RATIO: 0.50
   C. FOOTINGS AND FOUNDATIONS:
      a. STRENGTH, f'_c: 4500 PSI
      b. DENSITY, ρ_c: 145 PCF
      c. WATER/CEMENT RATIO: 0.45
   D. ALL OTHER CONCRETE U.N.O.:
      a. STRENGTH, f'_c: 4000 PSI
      b. DENSITY, ρ_c: 145 PCF
      c. WATER/CEMENT RATIO: 0.45

2. SLAB ON GRADE TO HAVE 3/4" MAXIMUM AGGREGATE SIZE FOR SLABS UP TO 6" AND 1 1/2" MAXIMUM AGGREGATE SIZE FOR SLABS THICKER THAN 6" PER MANUFACTURER SPECIFICATION TO BE APPROVED BY ENGINEER.

2. REINFORCING SHALL CONFORM TO ASTM A615, GR. 60, INCLUDING TIES AND STIRRUPS.

3. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185.

4. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH LATEST ACI DETAILING MANUAL (SP-66).

5. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH LATEST C.R.S.I. "MANUAL OF STANDARD PRACTICE", DO NOT STICK DOWELS INTO WET CONCRETE. TIE IN PLACE PRIOR TO START OF CONCRETE PLACEMENT.

6. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
   A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3"
   B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
      a. #5 BAR OR SMALLER: 1 1/2"
      b. #6 BAR OR LARGER: 2"
   C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
      a. WALLS, SLABS: 3/4"
      b. BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS): 1 1/2"

7. ALL CONSTRUCTION JOINTS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE, UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE DETAILED ON SHOP DRAWINGS. REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT. ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED TO A DEPTH OF 1/4". FOR VERTICAL CONSTRUCTION JOINTS IN BEAMS, SLABS, WALLS, ETC. IT IS ACCEPTABLE TO USE "STAYFORM".

8. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBER.

9. PROVIDE CONTINUOUS REINFORCEMENT AROUND CORNERS AND AT INTERSECTIONS AND THROUGH: CONSTRUCTION JOINTS, CONTROL JOINTS, CONTRACTION JOINTS, AND JOINTS BETWEEN ALL ABUTTING MEMBERS.

10. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.

11. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY ANCHORS, PRECAST BEARING LEDGES, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.

12. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.

13. MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR ITEMS. ALL CONDUITS TO HAVE TOP OF CONDUIT 5" BELOW BOTTOM OF SLAB ON GRADE.

14. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE TENSION LAP SPLICE TABLE BELOW, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

15. REFER TO TYPICAL DETAILS FOR HOUSEKEEPING PADS AND INERTIA BASES AT MECHANICAL EQUIPMENT. REFER TO MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS FOR LOCATIONS.

16. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" CONCRETE.

17. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY WALL VERTICAL REINFORCING.

18. PROVIDE STANDARD HOOKS ON BARS TERMINATING AT A CONCRETE FACE UNLESS NOTED OTHERWISE (E.G.: EDGES OF OPENINGS, SLAB EDGES, EXPANSION JOINTS, ENDS OF BEAMS, AND AT: TOP, BOTTOM AND ENDS OF WALLS, ETC...).

19. PROVIDE (2)-#5 BARS (MIN.) @ EACH SIDE OF OPENING. EXTEND 2'-0" BEYOND OPENINGS.

20. SEE MISC. NOTES FOR EPOXY / ADHESIVE ANCHORS.

21. ALL CONCRETE COLUMNS, PROTRUDING PILASTERS, NON-PROTRUDING PILASTERS AND PIERS SHALL HAVE (3) #3 TIES @ 3"O.C. FROM TOP OF CONCRETE.

TENSION LAP SPLICE								
LAP SPLICE LENGTH (INCHES)								
f'_c = 4000 PSI	GRADE 60 REBAR f_t = 60 KSI							
CLEAR COVER	3/4"		1 1/2"		2"		3"	
BAR SIZE	A	B	A	B	A	B	A	B
#3	12	16	12	16	12	16	12	16
#4	15	20	12	16	12	16	12	16
#5	21	28	15	20	15	20	15	20
#6	29	38	18	24	18	24	18	24
#7	46	60	29	38	25	33	25	33
#8	57	75	36	47	29	38	29	38
#9	69	90	44	58	36	47	33	43
#10	83	108	54	71	44	58	37	49
#11	98	128	65	85	53	69	41	54

TENSION LAP SPLICE								
LAP SPLICE LENGTH (INCHES)								
f'_c = 4500 PSI	GRADE 60 REBAR f_t = 60 KSI							
CLEAR COVER	3/4"		1 1/2"		2"		3"	
BAR SIZE	A	B	A	B	A	B	A	B
#3	12	16	12	16	12	16	12	16
#4	14	19	12	16	12	16	12	16
#5	20	26	14	19	14	19	14	19
#6	27	36	17	23	17	23	17	23
#7	44	58	27	36	24	32	24	32
#8	54	71	34	45	27	36	27	36
#9	65	85	42	55	34	45	31	41
#10	79	103	51	67	42	55	35	46
#11	92	120	61	80	50	65	38	50

COMPRESSION LAP SPLICE	
LAP SPLICE LENGTH (INCHES)	
f'_c = 3000 PSI OR GREATER	
BAR SIZE	30 db
#3	12
#4	15
#5	19
#6	23
#7	26
#8	30
#9	34
#10	38
#11	42

LAP SPLICE TABLE NOTES:
1. GENERAL

   A. TABLES ARE BASED ON ACI 318. LAP LENGTHS ARE BASED ON CONCRETE CLEAR COVER CONTROLLING. IF c-c SPACING BETWEEN BARS IS LESS THAN 1.0 d_b PLUS TWICE THE CONCRETE COVER THEN TABLES ARE NO LONGER VALID AND LAP LENGTHS SHOULD BE DETERMINED PER ACI 318 SECTION 25.5.2 FOR OTHER CASES.

   B. SPLICE PLAIN WELDED WIRE FABRIC BY LAPPING ONE FULL MESH SPACE PLUS 2".

2. TENSION LAP SPLICE TABLE

   A. ALL SPLICES TO BE CLASS "B" TENSION SPLICE UNLESS OTHERWISE NOTED.

   B. VALUES LISTED ARE FOR ALL BARS EXCEPT TOP BARS. TOP BARS ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR. FOR TOP BARS, MULTIPLY LENGTHS IN TABLE BY 1.3.

   C. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LENGTHS IN TABLE BY 1.3.

   D. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS IN TABLE BY 1.5.

3. COMPRESSION LAP SPLICE TABLE

   A. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS.

MASONRY:

1. NOTES APPLY TO MASONRY SHOWN ON STRUCTURAL DRAWINGS AND SHALL BE THE MINIMUM REQUIREMENTS FOR MASONRY SHOWN ON THE ARCHITECTURAL DRAWINGS.

2. CONCRETE MASONRY:
   A. COMPRESSIVE STRENGTH OF MASONRY, PRISM STRENGTH f'_m = 2000 PSI (MIN)
   B. COMPRESSIVE STRENGTH OF CMU = 2800 PSI
   C. CONCRETE MASONRY UNITS: ASTM C90, GRADE N, TYPE 1 - 2 CELL UNITS
      a. LIGHT WEIGHT UNITS FOR INTERIOR WALLS.
      b. NORMAL WEIGHT UNITS FOR EXTERIOR WALLS.
   D. GROUT: ASTM C476 STRENGTH AT 28 DAYS = 125% OF f'_m, 2500 PSI (MIN)
   E. MORTAR: ASTM C270 TYPE - S, HYDRATED LIME REQUIRED

3. REINFORCING: BARS SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED ON DRAWINGS. WIRES SHALL CONFORM TO ASTM A82.

4. DOWELS FROM C.I.P. CONCRETE SHALL MATCH THE VERTICAL REINFORCEMENT IN THE WALL ABOVE UNLESS NOTED OTHERWISE AND LAPPED BOTH ENDS. SUCH DOWELS SHALL BE FURNISHED BY THE CONCRETE CONTRACTOR.

5. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.

6. SPLICED REINFORCING SHALL BE LAPPED AS NOTED IN LAP SPLICE TABLES BELOW.
   a. MECHANICAL SPLICES ARE ACCEPTABLE AND SHALL DEVELOP 125% OF BAR STRENGTH.

7. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 DIAMETERS OF THE REINFORCING.

8. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY OR ADJACENT BARS AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS NOT SPLICED.

9. VERTICAL GROUTING MAY BE EITHER "LOW LIFT" OR "HIGH LIFT" AT THE CONTRACTOR'S OPTION.

10. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2" X 3".

11. GROUTING SHALL BE STOPPED 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.

12. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.

13. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION.

14. ALL HORIZONTAL REINFORCING (JOINT REINFORCING AND REBAR) SHALL CONTINUE AT CONTROL JOINTS.

15. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS OF DOOR AND WINDOW OPENINGS FOR SPECIAL COURSING AND OTHER MASONRY DETAILS. THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS INTENDED TO DEFINE THE STRUCTURAL REQUIREMENT ONLY.

16. MINIMUM WALL REINFORCING UNLESS NOTED OTHERWISE:

   A. 8" NOMINAL THICKNESS
      a. VERTICAL REINFORCING: REF FOUNDATION DETAILS
      b. HORIZONTAL REINFORCING: 9 GA EF @ 16" O.C.
      c. BOND BEAM REINFORCING: (2) #5 CONT.

   B. MECHANICAL SPLICES ARE ACCEPTABLE AND SHALL DEVELOP 125% OF BAR STRENGTH.

   C. PROVIDE BOND BEAMS AT: SILL LINES, BOTTOM EDGE OF OPENINGS (EXTEND MINIMUM OF 4'-0" PAST OPENING), TOP OF WALLS, FLOOR LINES, ROOF LINES, TOP OF PARAPETS, AND AT 10'-0" O.C. MAXIMUM BETWEEN BOND BEAMS. BOND BEAM SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE.

   D. HORIZONTAL JOINT REINFORCING: WIRE LADDER TYPE.

17. PROVIDE VERTICAL WALL REINFORCING, SAME SIZE AS ADJACENT BAR, AT: CORNERS, EN

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
   - A. W (U.N.O.): A992 GRADE 50 (f_y = 50 KSI)
   - B. ANGLES, BASE PLATES, CONN. PLATES (U.N.O.): A36 (f_y = 36 KSI)
   - C. STRUCTURAL PIPE: A53 (f_y = 35 KSI)
   - D. STRUCTURAL TUBE: A500 GRADE C (f_y = 50 KSI)
   - E. HEADED STUDS AWS D1.1, TYPE B
   - F. THREADED ROD A36
   - G. ANCHOR ROD F1554,GR36 OR GR55
   - H. BOLTS A325 / F1852
   - I. ELECTRODES MATCHING STRENGTH, 70 KSI
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE APPLICABLE AISC 303 CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
3. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT COMPLETELY DETAILING ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER, REGISTERED IN THE STATE OF THE PROJECT LOCATION, RETAINED BY THE FABRICATOR. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE DETAIL:
   - A. ALL PLATE DIMENSIONS AND GRADES.
   - B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.
   - C. ALL HOLE SIZES AND SPACINGS.
   - D. NUMBER AND TYPES OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.
   - E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR THE CONNECTION.
4. DESIGN CALCULATIONS FOR TYPICAL BEAM CONNECTIONS AND ALL PRIMARY BRACING AND HANGER CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. CONNECTION DESIGN FORCES:
   - A. BEAMS:
     - a. 55% OF TOTAL ALLOWABLE UNIFORM LOAD CAPACITY FROM THE APPLICABLE AISC STEEL CONSTRUCTION TABLES FOR ALLOWABLE LOADS ON BEAMS, Wc/L
     - b. REACTIONS SHOWN ON DRAWINGS ARE ALLOWABLE LOADS.
     - c. 10 KIPS MINIMUM.
   - B. MOMENT CONNECTIONS INDICATED ON THE DRAWINGS THUS: DESIGN FOR MOMENT SHOWN OR, IF NOT SHOWN, DEVELOP MOMENT CAPACITY OF MEMBER WITH f_t = 0.66f_y
   - C. MAINTAIN TENSION CAPACITY OF COLUMNS, DIAGONALS AND MEMBERS SUBJECT TO TENSION AT BOLT HOLES, NOTCHES, OR COPES.
   - D. CONNECTION FORCE NOTATION:
     - a. P = AXIAL FORCE IN KIPS: (+) TENSION, (-) COMPRESSION
     - b. V OR ( ) = SHEAR IN KIPS
     - c. M = MOMENT IN KIP-FT
     - d. T = TORSION IN KIP-FT
   - E. LOADS SHOWN INCLUDE COMPENSATION FOR CODE PERMITTED STRESS INCREASES AND LOAD REDUCTIONS FOR CONNECTION DESIGN.
6. THE MINIMUM PLATE THICKNESS SHALL BE 3/8".
7. COMPOSITE BEAMS
   - A. NUMBER OF SHEAR CONNECTORS (S.C.) SHOWN ON THE DRAWINGS ARE BASED UPON THE ASSUMED 3/4" DIA SHEAR CAPACITIES THAT FOLLOW:
     - a. 11.5k EACH FOR NORMAL WEIGHT CONCRETE (145 PCF)
     - b. 9.5k EACH FOR LIGHT WEIGHT CONCRETE (115 PCF)
   - B. S.C. CAPACITY VARIES WITH THE TYPE AND LENGTH OF THE S.C. AND WITH THE PROPERTIES OF THE COMPOSITE DECK. THE S.C. SUPPLIER SHALL DETERMINE THE TYPE AND LENGTH OF SHEAR CONNECTOR CONSISTENT WITH THE COMPOSITE DECK PROPERTIES AND IN ACCORDANCE WITH ALL AISC REQUIREMENTS, INCLUDING MAXIMUM ALLOWABLE SPACING. THE NUMBER OF SHEAR CONNECTORS SHALL BE ADJUSTED AS REQUIRED.
   - C. S.C. TYPE, LENGTH, SHEAR VALUE, AND DETAILED LAYOUT SHALL BE SUBMITTED WITH THE COMPOSITE METAL DECK SHOP DRAWINGS. SEE COMPOSITE METAL DECK NOTES.
   - D. MAXIMUM HEIGHT OF S.C. SHALL NOT EXCEED THE SLAB DEPTH - 1".
   - E. MINIMUM HEIGHT OF S.C. SHALL BE COMPOSITE DECK DEPTH + 1"
   - F. SPACING OF S.C. WITHIN A GIVEN LENGTH SHALL BE AS UNIFORM AS POSSIBLE.
   - G. UNLESS NOTED OTHERWISE NON-COMPOSITE AND COMPOSITE BEAMS DO NOT REQUIRE TEMPORARY SHORING.
   - H. CONTRACTOR SHALL FURNISH THE ADDITIONAL CONCRETE DUE TO WET CONCRETE DEFLECTION OF THE COMPOSITE BEAMS.
   - I. NO SHOP PAINT ON S.C. OR ON THE TOP SURFACE OF THE BEAMS THAT RECEIVE FIELD WELDED S.C.
8. BOLTED CONNECTIONS:
   - A. MINIMUM BOLT DIAMETER = 3/4"
   - B. SLIP CRITICAL CONNECTIONS OF A325SC OR A490SC BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF BRACING MEMBERS, MOMENT CONNECTIONS, CANTILEVERS, AND AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR FRICTION CONNECTIONS.
   - C. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.
   - D. A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.
   - E. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.
   - F. THE FABRICATOR IS RESPONSIBLE FOR VERIFYING THE TENSION CAPACITY OF AXIALLY LOADED MEMBERS AFTER A SECTION IS REDUCED FOR BOLT HEADS. MEMBER SIZE MAY BE INCREASED OR CONNECTION PLATES ADDED AS REQUIRED.
   - G. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.
9. WELDED CONNECTIONS:
   - A. WELDS ARE CONTINUOUS UNLESS NOTED OTHERWISE.
   - B. ALL FILLET WELDS: AISC MINIMUM BUT NOT LESS THAN 1/8" UNLESS NOTED OTHERWISE.
   - C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 3.1 OF (AWS D1.1).
   - D. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED OTHERWISE.
10. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
11. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE OF HOLES, SLOTS, CUTS, ETC., AND ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
12. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE HAS BEEN PROPERLY ALIGNED AND WILL THEREBY BE STIFFENED.
13. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY WITH A GOVERNMENT-TYPE ANCHOR.
14. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.
15. SHEAR STUDS: CONFORM TO AWS D1.1, SHOP WELD EXCEPT WHERE APPLIED THROUGH METAL DECK.
16. SEE MISC. NOTES FOR EPOXY / ADHESIVE ANCHORS.

COLD-FORMED STEEL:

1. ALL SIZING BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (ICC ESR-3064P) PRODUCT TECHNICAL INFORMATION.
2. MATERIALS SHALL CONFORM TO THE FOLLOWING:
   - A. GALVANIZED MATERIAL:
     - a. ALL GALVANIZED STUDS AND JOISTS 12, 14 AND 16 GAUGE (97, 68 AND 54 MIL) SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A653 SS, GRADE 50, CLASS 1 OR 3 WITH A MINIMUM YIELD OF 50,000 PSI.
     - b. ALL GALVANIZED 18 AND 20 GAUGE (43 AND 33 MIL) STUDS AND JOISTS; ALL GALVANIZED TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF ASTM A653 SS, GRADE 33 WITH A MINIMUM YIELD OF 33,000 PSI.
     - c. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A525.
   - B. PROPERTIES:
     - a. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY THE STEEL STUD MANUFACTURER ASSOCIATION AND AISI DESIGN MANUAL SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS. SPECIFICALLY, THE FOLLOWING MINIMUM PROPERTIES, CALCULATED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATION SHALL BE PROVIDED:
       - I_x (IN^4), S_x (IN^3), AREA (IN^2), R_x (IN), f_t (KSI), RESISTING MOMENT (IN.-LB.).
   - C. SUBSTITUTIONS:
     - a. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING PRIOR TO DELIVERY, BY THE ARCHITECT AND/OR ENGINEER OF RECORD.
3. INSTALLATION OF STUDS SHALL BE AS PER THE LATEST:
   - A. ASTM C1007 "INSTALLATION OF LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS AND ACCESSORIES"
   - B. ASTM C955 "SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUDS, RUNNERS (TRACK), AND BRACING OR BRIDGING FOR SCREW APPLICATION OF GYPSUM BOARD AND METAL PLASTER BASES"
   - C. ASTM C754 "SPECIFICATION FOR THE INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW ATTACHED GYPSUM BOARD".
4. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
5. ALL TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT-WELDED OR SPLICED TOGETHER.
6. ALL STUD BRIDGING SHALL BE ATTACHED IN A MANNER TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED ACCORDING TO DIETRICH INDUSTRY. RECOMMENDATION.
7. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
8. STUD ENDS MUST BE SQUARELY SEATED AGAINST THE TRACK WEB. BOTH STUD FLANGES MUST BE ATTACHED TO TRACK MEMBERS AT TOP AND BOTTOM.
9. STUD BRIDGING SHALL BE PROVIDED BY 1-1/2" COLD ROLLED U-CHANNEL. THE U-CHANNEL MUST BE ATTACHED TO EACH STUD BY WELDING OR ATTACHING WITH CLIP ANGLES AND SCREWS. HORIZONTAL STRAPPING AND SOLID BRIDGING WITH TRACK MEMBERS CAN ALSO BE USED FOR BRIDGING. BRIDGING SHALL BE SPACED AT 4'-0" O.C. MAX.
10. THE FOLLOWING MINIMUM COLD FORMED STEEL ATTACHMENTS SHALL BE PROVIDED U.N.O.:
    - A. TRACK TO:
      - a. STUD (1) - #10 TEK SCREW EACH FLANGE, EACH STUD
      - b. STRUCTURAL STEEL: (1) - .145" DIA. POWER DRIVEN FASTENER @ 2'-8" O.C.
      - c. CONCRETE: (1) - .145" DIA. POWER DRIVEN FASTENER @ 16" O.C.
      - d. METAL DECK: (1) - #10 TEK SCREW @ 1'-4" O.C.
      - e. MASONRY: (1) - .145" DIA. POWER DRIVEN FASTENER @ 2'-8" O.C.
    - B. STUD TO:
      - a. STRUCTURAL STEEL: (1) - L2x 2x - 14 GA. CLIP ANGLE CONNECTION W/ (3) - #10 TEK SCREWS INTO METAL STUD AND (3) - .145" DIA. POWER DRIVEN FASTENERS INTO STRUCTURAL STEEL OR (3) 1/4" TEK SCREWS INTO STEEL.
11. TYPICAL COLD-FORMED MEMBER NOMENCLATURE:

PRE-ENGINEERED METAL BUILDING:

1. THE PRE-ENGINEERED METAL BUILDING STRUCTURE, INCLUDING THE SUPPORT FRAME, COLUMNS, COLUMN CONNECTION TO FRAME, ROOF PURLINS, WALL GIRTS, BRACING, ROOF PANELS AND WALL PANELS TO BE DESIGNED BY THE PRE-ENGINEERED METAL BUILDING SUPPLIER. THE CONTRACT DOCUMENTS SHOW GENERAL LAYOUT AND OVERALL DESIGN INTENT AND DO NOT SHOW ALL ELEMENTS NECESSARY TO PROVIDE A COMPLETE STRUCTURAL SYSTEM. THE DESIGN AND FINAL LAYOUT OF THE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE THE RESPONSIBILITY OF THE PRE-ENGINEERED METAL BUILDING MANUFACTURER.
2. COLLATERAL SUPERIMPOSED GRAVITY AND WIND LOADS: SEE GENERAL NOTES & SPECIFIC ROOF PLANS FOR LOAD REQUIREMENTS.
3. THE PRE-ENGINEERED METAL BUILDING SUPPLIER SHALL SUBMIT CALCULATED COLUMN LOADS, ANCHOR BOLT LOCATIONS AND SIZES TO ENGINEER PRIOR TO FOOTING CONSTRUCTION. SUBMITTAL TO SHOW GRAPHICALLY MAXIMUM COLUMN REACTIONS FROM ALL LOAD CONDITIONS AND COMBINATIONS.
4. MAXIMUM ALLOWABLE DISPLACEMENTS:
   - A. LATERAL DISPLACEMENT: H/200
     - a. (H = EAVE HEIGHT, BASED ON THE LOW EAVE)
   - B. VERTICAL DISPLACEMENT OF MAIN FRAME RAFTERS: L/180, TOTAL LOAD.
   - C. VERTICAL DISPLACEMENT OF ROOF SUB-FRAMING: L/180 TOTAL LOAD.
   - D. NO REDUCTIONS ARE ALLOWED- FULL DESIGN LOADS SHALL BE USED IN CALCULATING LATERAL & VERTICAL LOADS.
5. WHEN CALCULATING NET UPLIFT USE ONLY STRUCTURE SELF WEIGHT. DO NOT INCLUDE SNOW LOADS OR MECHANICAL EQUIPMENT LOADS.
6. SIGNIFICANT DESIGN DEVIATIONS WILL BE CONSIDERED FOR APPROVAL ONLY IF FOUNDATION STRUCTURAL CALCULATIONS ARE SUBMITTED WITH THE PROPOSED REVISIONS. CALCULATIONS ARE TO BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF THE PROJECT LOCATION. SSC ENGINEERING INC. RESERVES THE RIGHT TO DETERMINE IF A DEVIATION IS CONSIDERED TO BE "SIGNIFICANT".
7. THE BUILDING FRAMES SHALL BE MOMENT RESISTING UNLESS NOTED OTHERWISE IN THE PRE-ENGINEERED METAL BUILDING DESIGN DRAWINGS.
8. ALL FLASHING, PANELS, ATTACHMENTS, INSULATIONS, ETC. ARE TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER UTILIZING STANDARD PRODUCTS.
9. ROOF AND WALL OPENINGS SHALL CONSIST OF APPROPRIATE CURBS AND FLASHING DETAILS TO PROVIDE FOR A WEATHER TIGHT CONDITION.
10. REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR COLUMN/RAFTER DEPTH RESTRICTIONS AND DESIGN REQUIREMENTS.
11. METAL BUILDING VERTICAL BRACING SHALL CONSIST OF PORTAL FRAMES AND X-BRACING AS INDICATED AT LOCATIONS SHOWN ON PLANS. METAL BUILDING MANUFACTURER SHALL COORDINATE LOCATION OF ALL BRACES TO MINIMIZE INTERFERENCE WITH ARCHITECTURAL FEATURES, MECHANICAL EQUIPMENT AND DUCTS. ROD OR CABLE BRACES MAY NOT BE SUBSTITUTED WHERE PORTAL FRAMES ARE SHOWN.
12. METAL BUILDING FRAMING LAYOUT AND MEMBERS SHOWN ARE SUGGESTED ONLY. MANUFACTURER IS RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH THE ARCHITECT AND OWNER AND PROVIDING A COMPLETE STRUCTURAL FRAMING SYSTEM DESIGNED BY THE MANUFACTURER. METAL BUILDING MANUFACTURER SHALL COORDINATE ALL DIMENSIONS, ELEVATIONS, BRACING AND SIZES AND SHAPES OF MEMBERS WITH ARCHITECT AND OWNER PRIOR TO FABRICATION AND CONSTRUCTION. ALL MEMBERS CONNECTIONS AND DECKING NOT SPECIFICALLY SIZED ON DRAWINGS SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER.
13. METAL BUILDING MANUFACTURER SHALL SUBMIT CALCULATIONS AND SHOW DRAWINGS, STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT FOR WHICH WORK IS BEING PERFORMED FOR REVIEW PRIOR TO FABRICATION.
14. FOUNDATIONS AND PIERS HAVE NOT BEEN COORDINATED WITH FINAL FOR CONSTRUCTION PRE-ENGINEERED METAL BUILDING REACTIONS AND DRAWINGS. FOOTINGS AND PIER SIZES AND/OR LOCATIONS MAY CHANGE ONCE FINAL FOR CONSTRUCTION REACTIONS AND DRAWINGS ARE PROVIDED TO SSC FOR OUR USE.

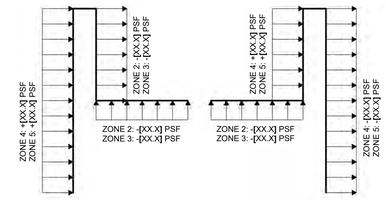
MISCELLANEOUS:

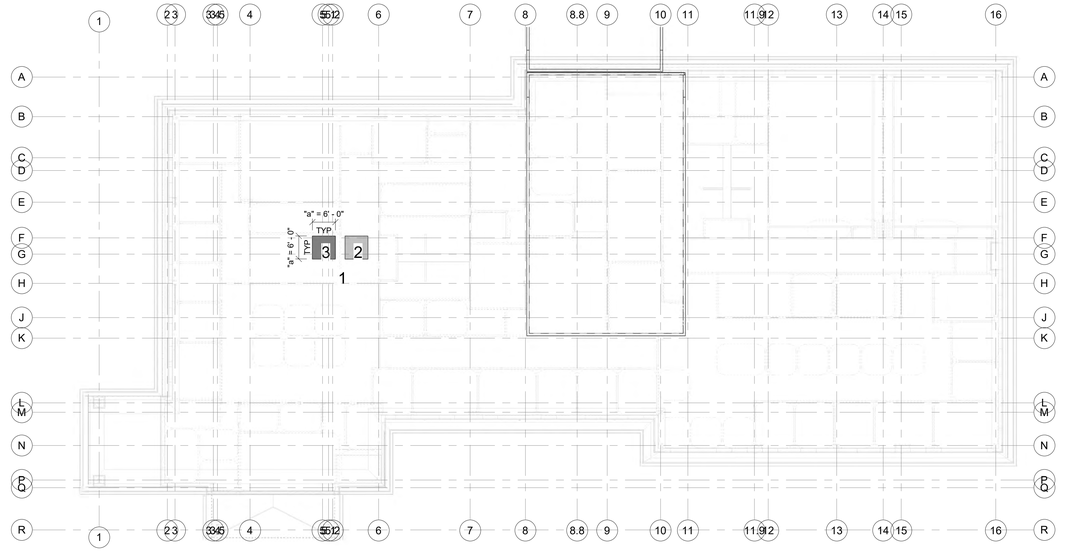
1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FP AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
4. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
10. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
11. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE EFFECTED WORK PROCEEDS.
12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.
14. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.
15. EPOXY / ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE REQUIREMENTS PROVIDED BY THE EPOXY / ADHESIVE MANUFACTURER. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER IF TEMPERATURES ARE NOT WITHIN THE PROPER RANGE.

WIND LOADING PLAN NOTES:

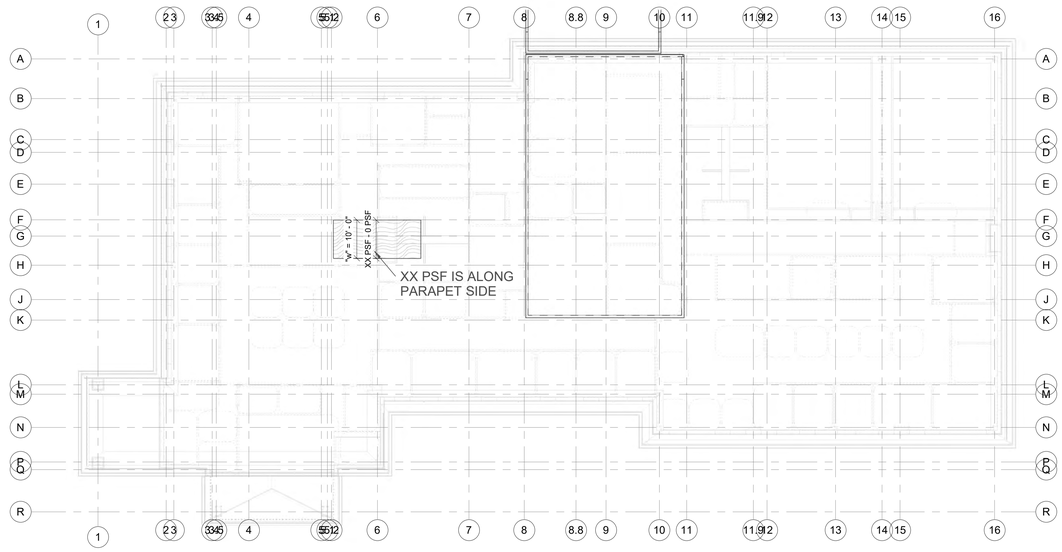
1. COMPONENTS & CLADDING WIND PRESSURES (PSF) BASED ON **ULTIMATE** WIND SPEEDS PER ASCE 7.
   - A. FOR CLADDING ATTACHMENT (10 SQ FEET EFFECTIVE AREA)
     - a. TYPICAL
       - ZONE 1: +[XX.X], -[XX.X]
       - ZONE 2: +[XX.X], -[XX.X]
       - ZONE 3: +[XX.X], -[XX.X]
       - ZONE 4: +[XX.X], -[XX.X]
       - ZONE 5: +[XX.X], -[XX.X]
     - b. FOR JOISTS (500 SQ FEET EFFECTIVE AREA)
       - ZONE 1: +[XX.X], -[XX.X]
       - ZONE 2: +[XX.X], -[XX.X]
       - ZONE 3: +[XX.X], -[XX.X]
   - B. NET WIND UPLIFT (PSF) BASED ON **ALLOWABLE** WIND SPEEDS (0.6D + 0.6W)
     - a. FOR JOISTS
       - ZONE 1: -[XX.X]
       - ZONE 2: -[XX.X]
       - ZONE 3: -[XX.X]
2. BUILDING WIND PRESSURES LISTED IN THE SCHEDULE ABOVE SHALL BE USED FOR DESIGN OF COMPONENTS AND CLADDING ELEMENTS NOT EXPLICITLY DESIGNED WITHIN THESE DOCUMENTS AND NOT SPECIFICALLY DESIGNED BY THE REGISTERED DESIGN PROFESSIONAL.
3. THE WIND LOADS NOTED ABOVE ARE BASED ON ZONES WHICH LOCATE SPECIFIC AREAS ON THE ROOF AND WALL SURFACES. THESE ZONES ARE LOCATED AS NOTED BELOW:
   - A. ZONE 1: TYPICAL ROOF SURFACE NOT LOCATED WITHIN ZONE 2 OR 3.
   - B. ZONE 2: EDGES OF ALL ROOF SURFACESE LOCATED WITH A DISTANCE "a" FROM ALL ROOF PEAKS AND HIPS.
   - C. ZONE 3: CORNERS OF ALL ROOF SURFACES LOCATED WITHIN A DISTANCE "a" FROM EACH EDGE OF ROOF.
   - D. ZONE 4: TYPICAL WALL SURFACE AREA NOT LOCATED WITHIN ZONE 5 (EXCLUDES PARAPETS)
   - E. ZONE 5: CORNERS OF ALL WALL SURFACES LOCATED WITHIN A DISTANCE "a" FROM ALL CORNERS (EXCLUDES PARAPETS)

PARAPET WIND LOADING:





STRUCTURAL WIND LOADING PLAN - OFFICE
SCALE: 1/16" = 1'-0"
NORTH

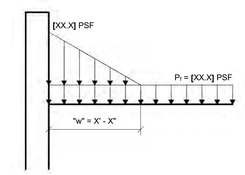


STRUCTURAL SNOW LOADING PLAN - OFFICE
SCALE: 1/16" = 1'-0"
NORTH

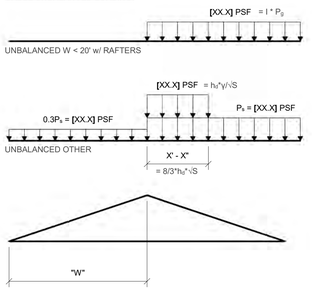
SNOW LOADING PLAN NOTES:

1. UNIFORM ROOF DESIGN SNOW LOAD, P_m = [XX.X] PSF
2. UNIFORM FLAT ROOF SNOW LOAD, P_f = [XX.X] PSF
3. THE SNOW DRIFT LOADING INDICATED ON PLAN IS IN ADDITION TO THE UNIFORM FLAT ROOF SNOW LOAD INDICATED ABOVE.
4. "w" IS THE WIDTH OF SNOW DRIFT

PARAPET DRIFT LOADING:



GABLE UNBALANCED LOADING:



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Drawing Title:

STRUCTURAL
GENERAL NOTES

S0.2

SSC JOB# 2025456_NOT FOR CONSTRUCTION

TABLE 1705.6

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

TABLE 1705.3

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X	ACI 318: Ch. 20, 25.2, 25.3.26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS.	--- --- X	X X	AWS D1.4 ACI 318: 26.6.4	---
3. INSPECT ANCHORS CAST IN CONCRETE.	---	X	ACI 318: 17.8.2	---
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X	 X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	---
5. VERIFYING USE OF REQUIRED DESIGN MIX.	---	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSED FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS	X X	--- ---	ACI 318: 26.10	---
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	---	X	ACI 318: 26.9	---
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X	ACI 318: 26.11.2	---
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	ACI 318: 26.11.1.2(b)	---

SECTION 1705.12.3 IBC 2015

REQUIRED SPECIAL INSPECTIONS AND TESTS OF COLD-FORMED STEEL

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. FOR WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM	---	X
2. FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	---	X

TMS 602-16 TABLE 3 (LEVEL 2)

MINIMUM VERIFICATION REQUIREMENTS OF MASONRY

TYPE	REFERENCED STANDARD
1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS ARE REQUIRED	TMS 602: 1.5
2. PRIOR TO CONSTRUCTION, VERIFICATION OF f'_m AND f'_{AAC}, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE IS REQUIRED	TMS 602: 1.4 B
3. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE IS REQUIRED.	TMS 602: 1.5 & 1.6.3
4. DURING CONSTRUCTION, VERIFICATION OF f'_m AND f'_{AAC}, FOR EVERY 5,000 SQ. FT. IS NOT REQUIRED.	TMS 602: 1.4 B
5. DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT IS NOT REQUIRED.	TMS 602: 1.4 B

TMS 602-16 TABLE 4 (LEVEL 2)

MINIMUM SPECIAL INSPECTION REQUIREMENTS OF MASONRY CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	
			TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-PREPARED MORTAR b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES d. PRESTRESSING TECHNIQUE e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY f. SAMPLE PANEL CONSTRUCTION	 --- --- --- X ---	 X X X --- X		 2.1, 2.6 A & 2.6 C 2.4 B & 2.4 H 3.4 & 3.6 A 3.6 B 2.1 C.1 1.6 D
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES c. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	 --- --- --- ---	 X X X X	 10.8 & 10.9 6.1, 6.3.1, 6.3.6 & 6.3.7	 3.2 D & 3.2 F 2.4 & 3.6 3.2 E & 3.4 2.6B & 2.4 G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION: a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION c. SIZE AND LOCATION OF STRUCTURAL MEMBERS d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION e. WELDING OF REINFORCEMENT f. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)) g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	 --- --- --- --- X --- X X X	 X X X X --- X --- --- ---	 1.2.1(e), 6.2.1 & 6.3.1 6.1.6.1.2 	 1.5 3.3 B 3.3 F 1.8 C & 1.8 D 3.6 B 3.5 & 3.6 C 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS	---	X		1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3 & 1.4 B.4

AISC 360-16 TABLE N5.4-1

INSPECTION TASKS PRIOR TO WELDING

TYPE	QUALITY CONTROL		QUALITY ASSURANCE	
	OBSERVE	PERFORM	OBSERVE	PERFORM
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	---	X	X	---
2. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	---	X	---	X
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	---	X	---	X
4. MATERIAL IDENTIFICATION (TYPE/GRADE)	X	---	X	---
5. WELDER IDENTIFICATION SYSTEM	X	---	X	---
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) a. JOINT PREPARATIONS b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) c. CLEANLINESS (CONDITION OF STEEL SURFACES) d. TACKING (TACK WELD QUALITY AND LOCATION) e. BACKING TYPE AND FIT (IF APPLICABLE)	X	---	X	---
7. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) a. JOINT PREPARATIONS b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) c. CLEANLINESS (CONDITION OF STEEL SURFACES) d. TACKING (TACK WELD QUALITY AND LOCATION)	---	X	X	---
8. CONFIGURATION AND FINISH OF ACCESS HOLES	X	---	X	---
9. FIT-UP OF FILLET WELDS a. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) b. CLEANLINESS (CONDITION OF STEEL SURFACES) c. TACKING (TACK WELD QUALITY AND LOCATION)	X	---	X	---
10. CHECK WELDING EQUIPMENT	X	---	---	---

AISC 360-16 TABLE N5.4-2

INSPECTION TASKS DURING WELDING

TYPE	QUALITY CONTROL		QUALITY ASSURANCE	
	OBSERVE	PERFORM	OBSERVE	PERFORM
1. CONTROL AND HANDLING OF WELDING CONSUMABLES a. PACKAGING b. EXPOSURE CONTROL	X	---	X	---
2. NO WELDING OVER CRACKED TACK WELDS	X	---	X	---
3. ENVIRONMENTAL CONDITIONS a. WIND SPEED WITHIN LIMITS b. PRECIPITATION AND TEMPERATURE	X	---	X	---
4. WPS FOLLOWED a. SETTING ON WELDING EQUIPMENT b. TRAVEL SPEED c. SELECTED WELDING MATERIALS d. SHIELDING GAS TYPE/FLOW RATE e. PREHEAT APPLIED f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) g. PROPER POSITION (F, V, H, OH)	X	---	X	---
5. WELDING TECHNIQUES a. INTERPASS AND FINAL CLEANING b. EACH PASS WITHIN PROFILE LIMITATIONS c. EACH PASS MEETS QUALITY REQUIREMENTS	X	---	X	---
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	---	X	---	X

AISC 360-16 TABLE N5.4-3

INSPECTION TASKS AFTER WELDING

TYPE	QUALITY CONTROL		QUALITY ASSURANCE	
	OBSERVE	PERFORM	OBSERVE	PERFORM
1. WELDS CLEANED	X	---	X	---
2. SIZE, LENGTH AND LOCATION OF WELDS	---	X	---	X
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA a. CRACK PROHIBITION b. WELD/BASE-METAL FUSION c. CRATER CROSS SECTION d. WELD PROFILES e. WELD SIZE f. UNDERCUT g. POROSITY	---	X	---	X
4. ARC STRIKES	---	X	---	X
5. k-AREA	---	X	---	X
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	---	X	---	X
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	---	X	---	X
8. REPAIR ACTIVITIES	---	X	---	X
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	---	X	---	X
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	X	---	X	---

AISC 360-16 TABLE N5.6-1

INSPECTION TASKS PRIOR TO BOLTING

TYPE	QUALITY CONTROL		QUALITY ASSURANCE	
	OBSERVE	PERFORM	OBSERVE	PERFORM
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	---	---	X
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	X	---	X	---
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	X	---	X	---
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	X	---	X	---
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	X	---	X	---
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	---	X	X	---
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	X	---	X	---

AISC 360-16 TABLE N5.6-2

INSPECTION TASKS DURING BOLTING

TYPE	QUALITY CONTROL		QUALITY ASSURANCE	
	OBSERVE	PERFORM	OBSERVE	PERFORM
1. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	X	---	X	---
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	X	---	X	---
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	X	---	X	---
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	X	---	X	---

AISC 360-16 TABLE N5.6-3

INSPECTION TASKS AFTER BOLTING

TYPE	QUALITY CONTROL		QUALITY ASSURANCE	
	OBSERVE	PERFORM	OBSERVE	PERFORM
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	---	X	---	X

SPECIAL INSPECTION TABLE NOTES:

1. THE CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY IBC, AS AMENDED. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY / COUNTY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY / COUNTY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
2. CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
3. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY / COUNTY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
5. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD. ALL REPORTS MUST IDENTIFY DISCREPANCIES. IT IS THE RESPONSIBILITY OF SPECIAL INSPECTOR TO FURNISH REPORTS AND SHOW ALL DISCREPANCIES HAVE BEEN CORRECTED PRIOR TO OCCUPANCY. FAILURE TO FOLLOW IBC CHAPTER 17 REQUIREMENTS IS A VIOLATION OF THE CODE FOR WHICH THE BUILDING HAD BEEN DESIGNED.

SPECIAL INSPECTIONS:

1. GENERAL
   - A. ALL SECTIONS & TABLES LISTED BELOW ARE REFERENCING THE 2015 INTERNATIONAL BUILDING CODE.
2. SOILS & FOUNDATIONS
   - A. SOILS
     - a. SPECIAL INSPECTIONS & TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION & TABLE 1705.6
     - b. THE APPROVED GEOTECHNICAL REPORT & THE CONSTRUCTION DOCUMENTS SHALL BE USED TO DETERMINE COMPLIANCE.
     - c. DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT PROPER MATERIALS & PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.
3. CONCRETE CONSTRUCTION
   - A. SPECIAL INSPECTIONS & TESTS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705.3 & TABLE 1705.3
   - B. SPECIAL INSPECTIONS OF WELDING & QUALIFICATIONS OF SPECIAL INSPECTORS FOR WELDING REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR SPECIAL INSPECTION & SPECIAL INSPECTOR QUALIFICATION.
4. MASONRY CONSTRUCTION
   - A. SPECIAL INSPECTIONS & TESTS OF MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF THE APPLICABLE TMS 402 & TMS 602.
5. STEEL CONSTRUCTION
   - A. SPECIAL INSPECTIONS & NONDESTRUCTIVE TESTS OF STEEL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705.2
   - B. SPECIAL INSPECTIONS & NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES & PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF THE APPLICABLE AISC 360.
   - C. SPECIAL INSPECTIONS & QUALIFICATIONS OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR & ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.
   - D. SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH TABLE 1705.2.3
6. SPECIAL INSPECTIONS FOR WIND RESISTANCE
   - A. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE REQUIRED FOR BUILDINGS AND STRUCTURES CONSTRUCTED IN THE FOLLOWING AREAS:
     - a. IN WIND EXPOSURE CATEGORY B, WHERE V_{asd} AS DETERMINED IN ACCORDANCE WITH SECTION 1609.3.1 IS 120 MPH OR GREATER.
   - B. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION
     - a. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WELDING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM.
     - b. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.
7. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE
   - A. STEEL
     - a. SPECIAL INSPECTIONS OF STRUCTURAL STEEL IN THE SEISMIC FORCE RESISTING SYSTEM IN BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.
     - b. SPECIAL INSPECTIONS OF STRUCTURAL STEEL ELEMENTS IN THE SEISMIC FORCE RESISTING SYSTEM OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F INCLUDING STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.
     - c. MATERIALS AND JOINTS FOR MOMENT CONNECTIONS THAT ARE APART OF THE SEISMIC FORCE RESISTING SYSTEM SHALL CONFORM TO THE APPLICABLE AISC SEISMIC PROVISIONS (AISC 341):
       - MATERIALS SHALL CONFORM TO AISC SEISMIC PROVISIONS, INCLUDING SUPPLEMENT NO. 1, SECTION A.3.1
       - STEEL PLATES AND SHAPES SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS AS REQUIRED PER THE SEISMIC PROVISIONS, INCLUDING SUPPLEMENT NO. 1, SECTION A3.3
       - BOLTED AND WELDED JOINTS TO CONFORM TO AISC SEISMIC PROVISIONS, INCLUDING SUPPLEMENT NO. 1, SECTIONS D2.2, D2.3 AND I2
   - B. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION
     - a. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F.
     - b. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING ELEMENTS OF THE MAIN SEISMIC FORCE RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F.
8. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY/COUNTY INSPECTOR.
9. SPECIAL INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT APPROVAL OF LOCAL AND SPECIAL INSPECTORS IS SUBJECT TO REMOVAL OR EXPOSURE.
10. SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY/COUNTY TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ANY WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
12. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.

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Checked By:	Checker

Drawing Title:

STRUCTURAL SPECIAL INSPECTIONS

S0.3

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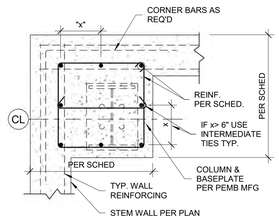
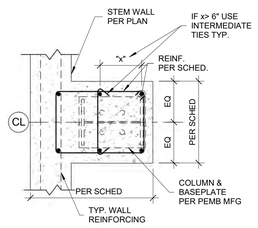


CORNER CONDITION



TYPICAL CONDITION

30 TYPICAL PEMB PIER AT STEM WALL
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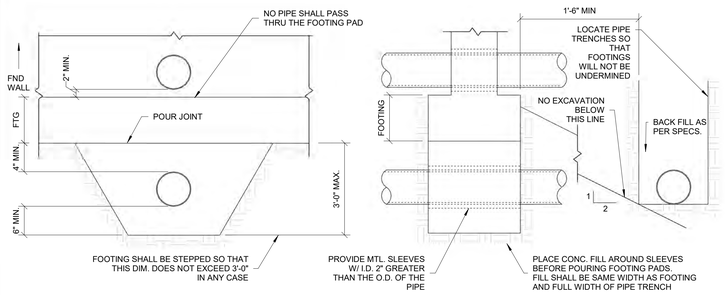
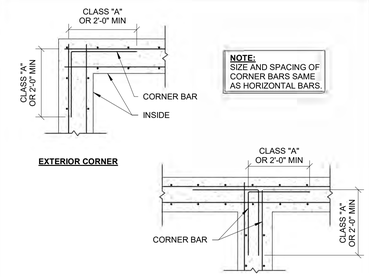
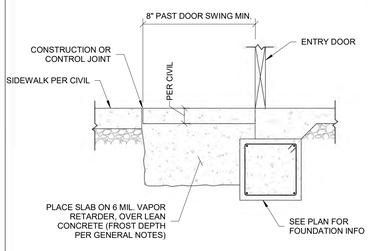


20 TYPICAL PIPE TRENCH FOOTING DETAIL
SCALE: 3/4" = 1'-0"



AT INTERSECTION

10 TYPICAL CONCRETE CORNER BAR DETAILS
SCALE: 1/2" = 1'-0"



5 TYPICAL ENTRY DETAIL FOR SLAB FROST HEAVE PREVENTION
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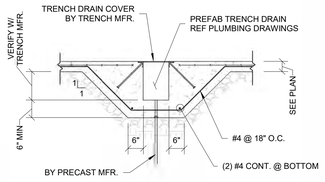

24 PREFAB TRENCH DRAIN
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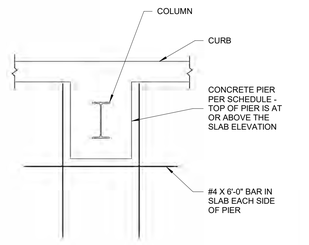

19 TYPICAL SLAB REINF AROUND PIERS
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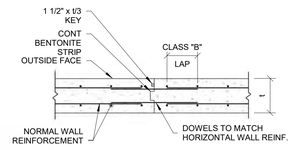
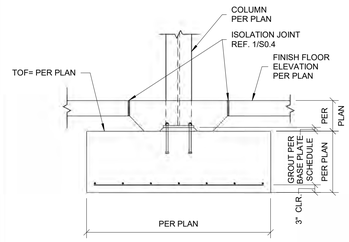


14 TYPICAL VERTICAL C.J. IN CONCRETE WALL
SCALE: 1/2" = 1'-0"



9 TYPICAL DETAIL OF INTERIOR COLUMN AT SPREAD FOOTING
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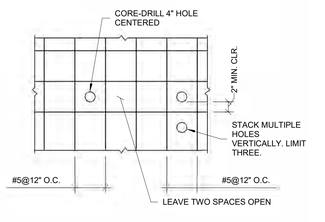

4 TYPICAL CONDUIT SLEEVE THRU CONC WALL
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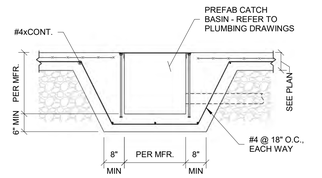

28 TYPICAL PREFAB CATCH BASIN
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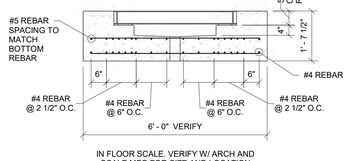
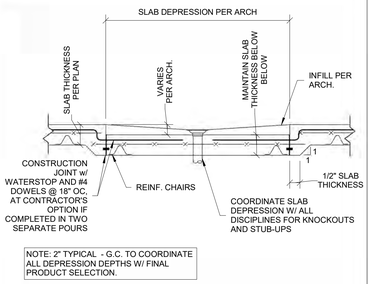


23 SECTION @ INFLOOR SCALE
SCALE: 1/2" = 1'-0"



18 TYPICAL SLAB DEPRESSION DETAIL
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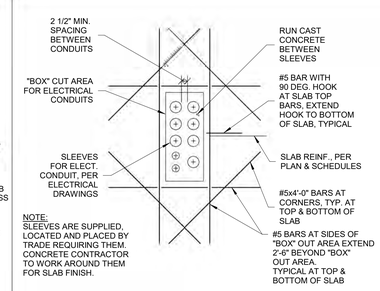

13 TYPICAL SLAB REINFORCEMENT @ SLEEVED OPENINGS
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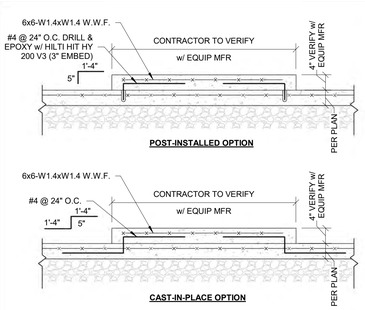
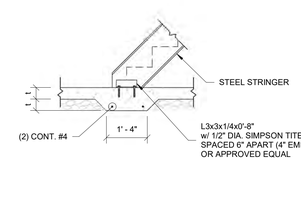
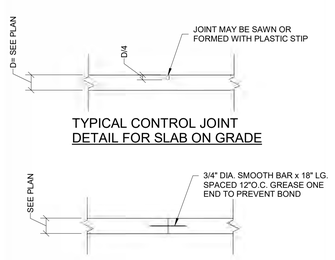


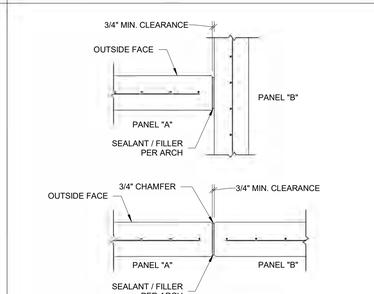
27 HOUSEKEEPING PAD FOR MECHANICAL UNIT
SCALE: 3/4" = 1'-0"



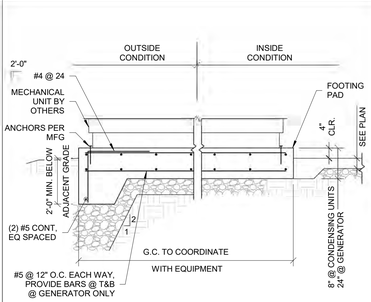
22 STEEL STRINGER ON SLAB ON GRADE
SCALE: 1/2" = 1'-0"



16 TYPICAL SLAB ON GRADE DETAILS
SCALE: 1/2" = 1'-0"



12 TYPICAL FOUNDATION WALL EXPANSION JOINT DETAIL
SCALE: 1/2" = 1'-0"



7 SECTION THRU EQUIPMENT FTG PAD @ GRADE / SLAB
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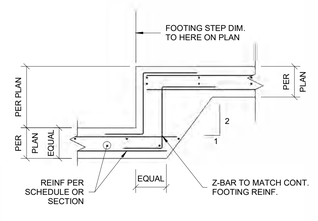
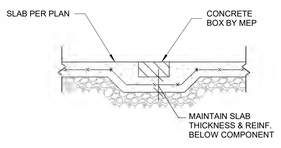
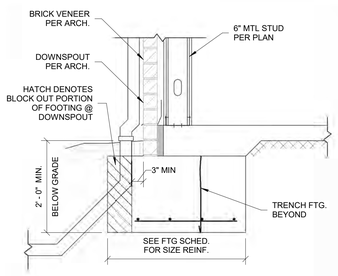


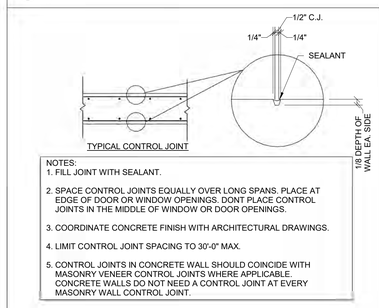
2 TYPICAL STEP FOOTING DETAIL
SCALE: 1/2" = 1'-0"



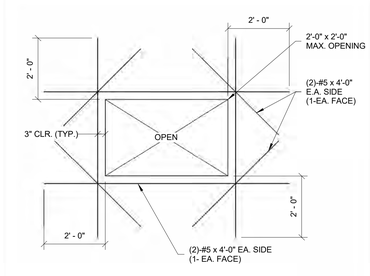
26 TYPICAL SLAB DETAIL @ INFLOOR ELECTRICAL BOXES
SCALE: 3/4" = 1'-0"



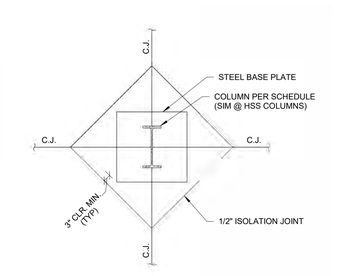
21 SECTION AT DOWNSPOUT BLOCKOUT
SCALE: 3/4" = 1'-0"



11 TYP FOUNDATION WALL CONTROL JOINT
SCALE: 1/2" = 1'-0"



6 TYPICAL DETAIL @ OPENINGS IN CONCRETE WALL
SCALE: 1/2" = 1'-0"



1 TYPICAL ISOLATION JOINT DETAIL @ COLUMN
SCALE: 1/2" = 1'-0"

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Drawn By:	SSC
Checked By:	REK
Drawing Title:	STRUCTURAL TYPICAL DETAILS

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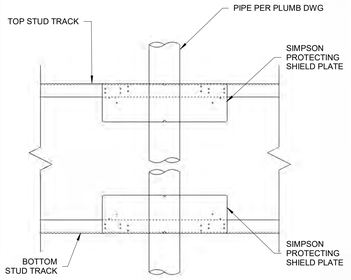
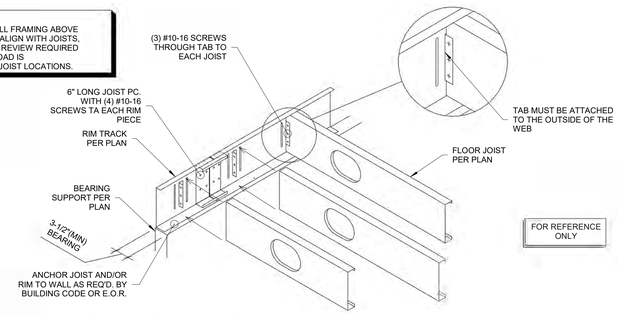
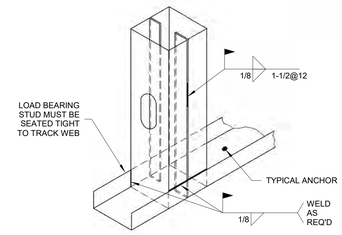


25 SIMPSON PROTECTING PLATE
NOT TO SCALE

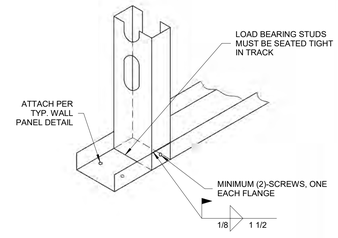
NOTE:
LOAD BEARING WALL FRAMING ABOVE AND BELOW MUST ALIGN WITH JOISTS, OTHERWISE E.O.R. REVIEW REQUIRED TO VERIFY WALL LOAD IS TRANSFERRED AT JOIST LOCATIONS.



20 TYPICAL RIM JOIST SPLICE (FOR REFERENCE ONLY)
NOT TO SCALE



10 TYPICAL STUD @ TRACK CONNECTION @ OPENING
NOT TO SCALE



5 TYPICAL STUD TO TRACK CONN @ LOADBEARING WALL
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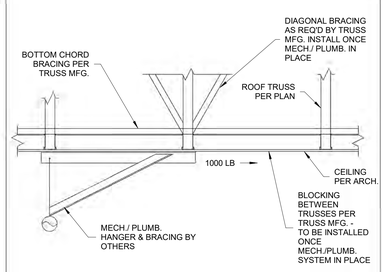
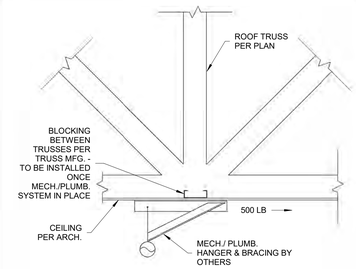


29 MECH/PLUMB BRACING FORCE PERPENDICULAR TO TRUSS
SCALE: 3/4" = 1'-0"

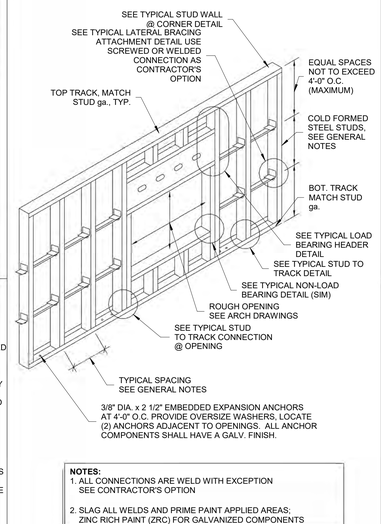


24 MECH/PLUMB BRACING FORCE PARALLEL TO TRUSS
SCALE: 3/4" = 1'-0"

BRICK VENEER LOOSE LINTEL SCHEDULE		
SIZE	OPENING SIZE	REMARKS
L4x3 1/2x5/16 (LLV)	UP TO 3'-8"	-
L6x3 1/2x5/16 (LLV)	3'-8" TO 6'-0"	-
L6x3 1/2x5/16 (LLV)	6'-0" TO 8'-0"	-

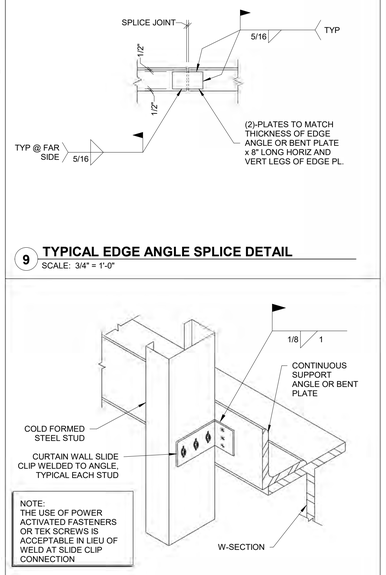
NOTE:
1. PROVIDE 8" BEARING AT EACH END.
2. PROVIDE GALVANIZED FINISH.
3. SEE ARCH. DRAWINGS FOR LINTEL LOCATIONS.

19 BRICK VENEER LOOSE LINTEL SCHEDULE
SCALE: 1/8" = 1'-0"

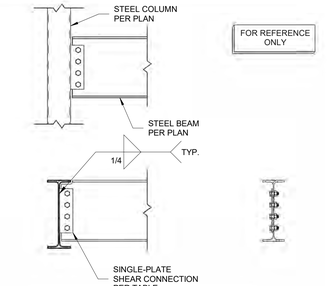


NOTES:
1. ALL CONNECTIONS ARE WELD WITH EXCEPTION SEE CONTRACTOR'S OPTION
2. SLAG ALL WELDS AND PRIME PAINT APPLIED AREAS; ZINC RICH PAINT (ZRC) FOR GALVANIZED COMPONENTS

13 TYPICAL LOADBEARING WALL PANEL
NOT TO SCALE



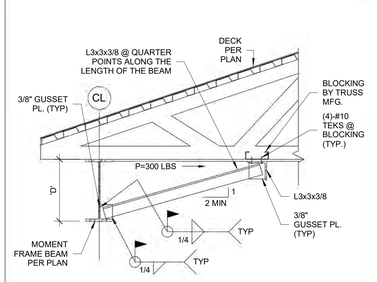
9 TYPICAL EDGE ANGLE SPLICE DETAIL
SCALE: 3/4" = 1'-0"



BEAM SIZE	5/16" STEEL PLATE LENGTH, L (IN.)	NUMBER OF 3/4" DIA. BOLTS
W10, 8	5 1/2"	2
W14, 12	8 1/2"	3
W18, 16	11 1/2"	4
W21, 18	14 1/2"	5
W27, 24	17 1/2"	6
W33, 30	20 1/2"	7
W36	23 1/2"	8

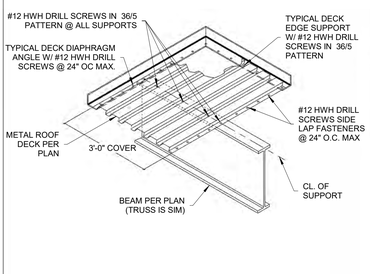
NOTES:
1. ADAPTED FROM TABLE 10-9a, AISC STEEL CONSTRUCTION MANUAL, THIRTEENTH EDITION.
2. ONLY A SINGLE VERTICAL ROW OF BOLTS IS PERMITTED.
3. THE DISTANCE FROM THE BOLT LINE TO THE WELD LINE, MUST BE EQUAL TO OR LESS THAN 3 1/2".
4. STD OR SSL HOLES ARE PERMITTED TO BE USED.
5. THE HORIZONTAL EDGE DISTANCE MUST BE EQUAL TO OR GREATER THAN 1 1/2" FOR BOTH THE PLATE AND THE BEAM WEB.
6. THE VERTICAL EDGE DISTANCES MUST SATISFY AISC SPECIFICATION TABLE J3.4 REQUIREMENTS FOR BOTH THE PLATE AND THE BEAM WEB.
7. EDGE DISTANCES ARE MEASURED TO THE CENTER OF THE BOLT OR SLOT.
8. BOLT SPACING SHALL BE 3".
9. BOLTS SHALL BE ASTM A325-N or X.

3 TYPICAL SINGLE-PLATE SHEAR CONNECTIONS (FOR REFERENCE ONLY)
SCALE: 3/4" = 1'-0"

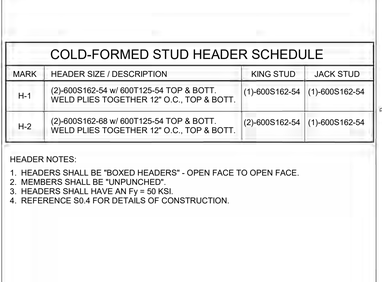


NOTE:
PROVIDE (4)-#8 FRAMING SCREWS REQUIRED AS SHOWN

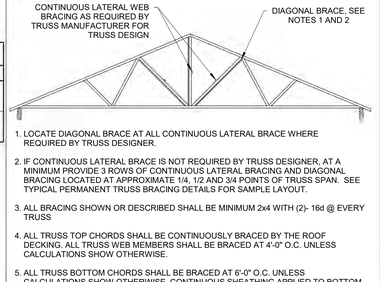
28 TYPICAL LATERAL BRACING ATTACHMENT
NOT TO SCALE



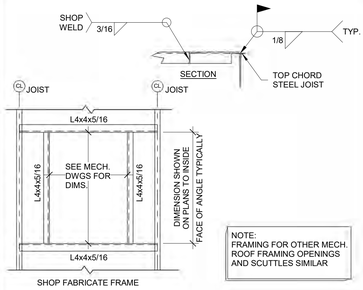
23 FRAMING SECTION @ DS FAN & ROOF
SCALE: 1/2" = 1'-0"



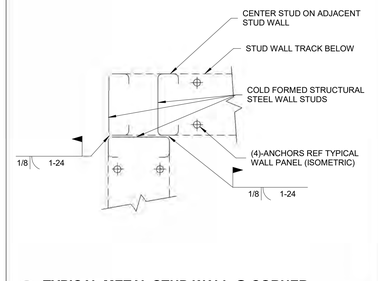
18 TYPICAL LIGHT GAGE STEEL TRUSS OVERBUILDING FRAMING
NOT TO SCALE



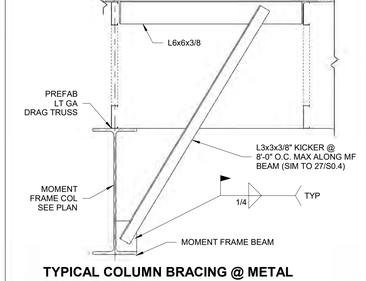
11 TYPICAL LOADBEARING HEADER & JAMB
NOT TO SCALE



8 TYPICAL CURTAIN WALL SLIDE CLIP CONNECTION
NOT TO SCALE



27 TYPICAL MOMENT FRAME BOTTOM FLANGE BRACING @ METAL STUD
SCALE: 3/4" = 1'-0"

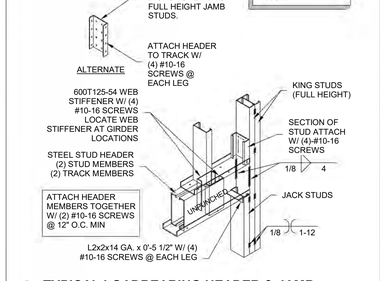


22 ROOF DECK MECHANICAL FASTENER ATTACHMENT TO SUPPORTS
NOT TO SCALE

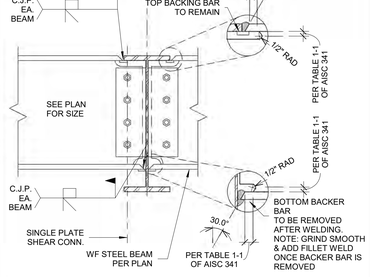
COLD-FORMED STUD HEADER SCHEDULE			
MARK	HEADER SIZE / DESCRIPTION	KING STUD	JACK STUD
H-1	(2)-600S162-54 w/ 600T125-54 TOP & BOTT. WELD PLIES TOGETHER 12" O.C., TOP & BOTT.	(1)-600S162-54	(1)-600S162-54
H-2	(2)-600S162-68 w/ 600T125-54 TOP & BOTT. WELD PLIES TOGETHER 12" O.C., TOP & BOTT.	(2)-600S162-54	(1)-600S162-54

HEADER NOTES:
1. HEADERS SHALL BE "BOXED HEADERS" - OPEN FACE TO OPEN FACE.
2. MEMBERS SHALL BE "UNPUNCHED".
3. HEADERS SHALL HAVE AN Fy = 50 KSI.
4. REFERENCE S0.4 FOR DETAILS OF CONSTRUCTION.

17 COLD FORMED HEADER SCHEDULE
NOT TO SCALE



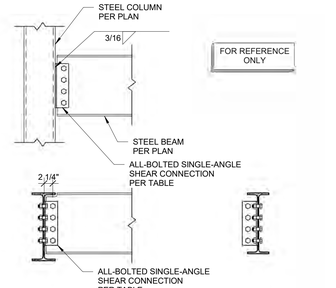
16 TYP BEAM TO COL MOMENT CONN
SCALE: 3/4" = 1'-0"



1. LOCATE DIAGONAL BRACE AT ALL CONTINUOUS LATERAL BRACE WHERE REQUIRED BY TRUSS DESIGNER.
2. IF CONTINUOUS LATERAL BRACE IS NOT REQUIRED BY TRUSS DESIGNER, AT A MINIMUM PROVIDE 3 ROWS OF CONTINUOUS LATERAL BRACING AND DIAGONAL BRACING LOCATED AT APPROXIMATE 1/4, 1/2 AND 3/4 POINTS OF TRUSS SPAN. SEE TYPICAL PERMANENT TRUSS BRACING DETAILS FOR SAMPLE LAYOUT.
3. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2x4 WITH (2)- 16d @ EVERY TRUSS
4. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF DECKING. ALL TRUSS WEB MEMBERS SHALL BE BRACED AT 4'-0" O.C. UNLESS CALCULATIONS SHOW OTHERWISE.
5. ALL TRUSS BOTTOM CHORDS SHALL BE BRACED AT 6'-0" O.C. UNLESS CALCULATIONS SHOW OTHERWISE. CONTINUOUS SHEATHING APPLIED TO BOTTOM CHORD WILL SATISFY THIS BRACING REQUIREMENT.

12 TYPICAL TRUSS BRACING
NOT TO SCALE

7 TYPICAL FRAMING FOR ROOF DECK OPENING
SCALE: 3/4" = 1'-0"



BEAM SIZE	5/16" STEEL PLATE LENGTH, L (IN.)	NUMBER OF 3/4" DIA. BOLTS
W10, 8	5 1/2"	2
W14, 12	8 1/2"	3
W18, 16	11 1/2"	4
W21, 18	14 1/2"	5
W27, 24	17 1/2"	6
W33, 30	20 1/2"	7
W36	23 1/2"	8

NOTES:
1. ADAPTED FROM TABLE 10-12, AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.
2. ALLOWABLE SHEAR STRENGTH OF BEAM WEB MUST BE CHECKED PER AISC TABLE 10-12. THE BEAM WEB MAY CONTROL THE CONNECTION CAPACITY. THIS TABLE MUST BE USED WITH CAUTION.
3. THE DISTANCE FROM THE BOLT LINE TO THE BEAM WEB MUST BE 2 1/4".
4. THE HORIZONTAL EDGE DISTANCE FOR THE BEAM WEB MUST BE EITHER 1 1/2" OR 1 3/4".
5. THE VERTICAL EDGE DISTANCE AT THE WEB OF A COPED BEAM MUST BE GREATER THAN OR EQUAL TO 1 1/4".
6. EDGE DISTANCES ARE MEASURED TO THE CENTER OF THE BOLT OR SLOT.
7. BOLT SPACING SHALL BE 3".
8. BOLTS SHALL BE ASTM A325-N or X.

1 TYPICAL SINGLE-ANGLE ALL-BOLTED (FOR REFERENCE ONLY)
SCALE: 3/4" = 1'-0"

26 TYPICAL METAL STUD WALL @ CORNER
NOT TO SCALE

21 TYPICAL COLUMN BRACING @ METAL TRUSS-PARALLEL
SCALE: 3/4" = 1'-0"

6 TYPICAL BEAM TO BEAM MOMENT CONNECTION
SCALE: 3/4" = 1'-0"

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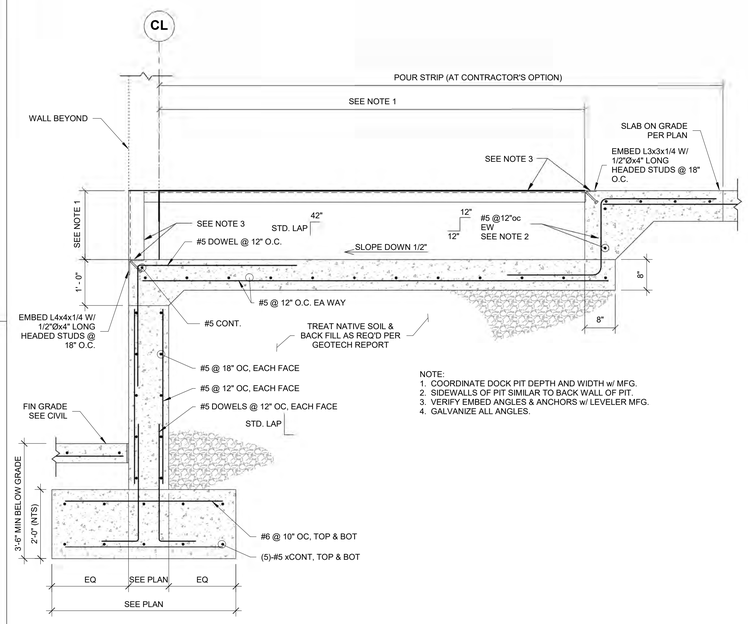
Checked By:	REK

Drawing Title:

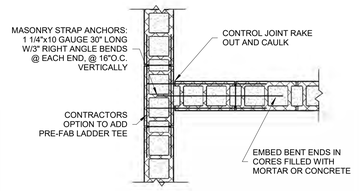
STRUCTURAL TYPICAL DETAILS

S0.5

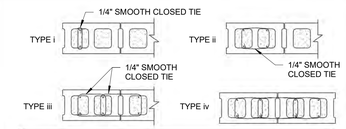
SSC JOB# 2025456_NOT FOR CONSTRUCTION



19 FND SECTION @ LOADING DOCK
SCALE: 3/4" = 1'-0"



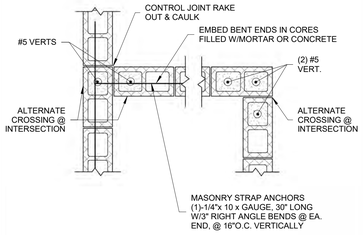
10 TYPICAL INTERSECTION OF CMU WALLS
SCALE: 3/4" = 1'-0"



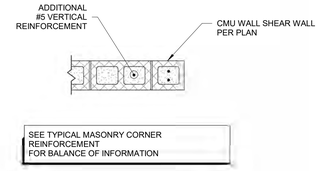
MASONRY PIER SCHEDULE				
MARK	TYPE	VERT. REINF.	HORIZ. TIE. SPACING	REMARKS
MP1	i	(2)-#5	8"O.C.	
MP2	ii	(4)-#5	8"O.C.	
MP3	iii	(6)-#5	8"O.C.	
MP4	iv	(8)-#5	8"O.C.	
MP5	ii	(4)-#7	8"O.C.	

NOTES:
1. DOWEL VERTICALS TO SLAB TYPICAL.
2. GROUT REINFORCED CORES SOLID

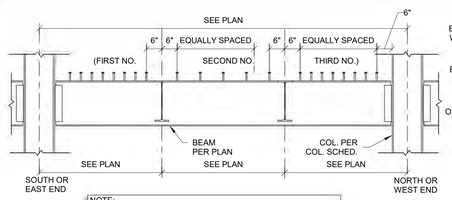
5 MASONRY PIER SCHEDULE
SCALE: 1/8" = 1'-0"



9 TYPICAL CMU WALL CORNER AND INTERSECTION DETAIL
SCALE: 3/4" = 1'-0"

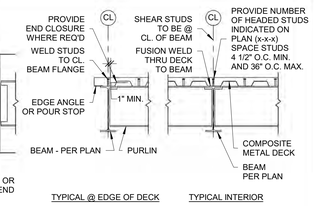


4 TYPICAL MASONRY JAMB REINFORCEMENT IN SHEAR WALL
SCALE: 3/4" = 1'-0"



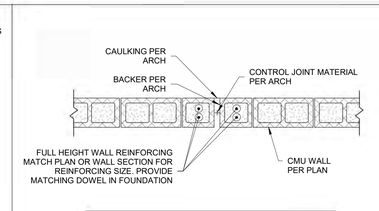
NOTE:
WHERE ONLY ONE NUMBER IN PARENTHESIS - INDICATES TOTAL NUMBER OF STUDS TO BE EVENLY SPACED ALONG THE FULL LENGTH OF THE BEAM.

NOTE:
ADD STUDS AS REQUIRED SO THAT MAXIMUM SPACING BETWEEN STUDS DOES NOT EXCEED 36" (THIS REQUIREMENT APPLIES TO ALL COMPOSITE BEAMS)



TYPICAL COMPOSITE BEAM DETAIL

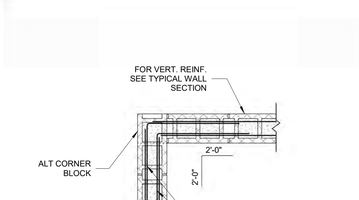
23 TYPICAL SHEAR CONNECTOR SPACING DETAILS FOR GIRDER
SCALE: 1/2" = 1'-0"



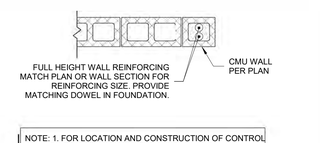
NOTE: 1. FOR LOCATION AND CONSTRUCTION OF CONTROL JOINTS, SEE ARCHITECTURAL DRAWINGS.

2. PROVIDE TOP BOND BEAM CONTINUOUS ACROSS, CONTROL JOINT

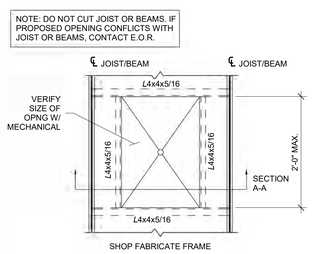
13 TYPICAL MASONRY CONTROL JOINT
SCALE: 3/4" = 1'-0"

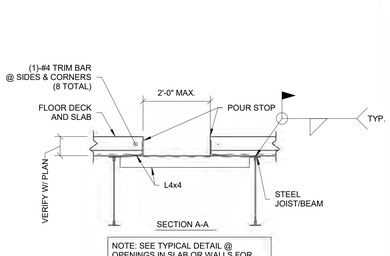


8 TYPICAL CMU BOND BEAM CORNER BARS
SCALE: 3/4" = 1'-0"



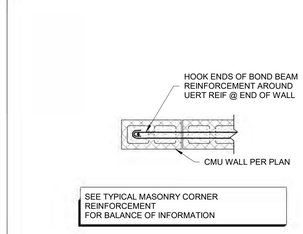
3 TYPICAL MASONRY CORNER REINFORCEMENT
SCALE: 3/4" = 1'-0"



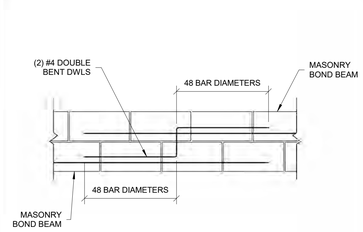


NOTE: SEE TYPICAL DETAIL @ OPENINGS IN SLAB OR WALLS FOR TRIM BAR REBAR PLACEMENT.

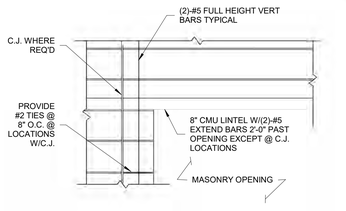
22 TYPICAL OPENING IN ELEVATED FLOOR SLAB
SCALE: 3/4" = 1'-0"



12 TYPICAL MASONRY JAMB REINFORCEMENT IN SHEAR WALL
SCALE: 3/4" = 1'-0"

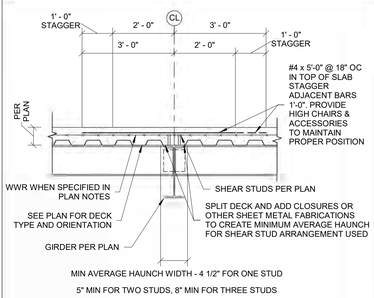


7 TYPICAL STEPPED BOND BEAM
SCALE: 3/4" = 1'-0"

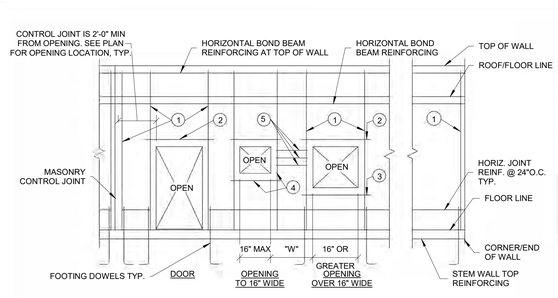


NOTE: @ LOCATIONS WITHOUT CONTROL JOINTS PROVIDE ADDITIONAL JOINT REINF. @ FIRST 2 COURSES ABOVE LINTEL. EXTEND A MINIMUM OF 2'-0" BEYONDOPENING

2 TYPICAL CMU BOND BEAM LINTEL
SCALE: 3/4" = 1'-0"

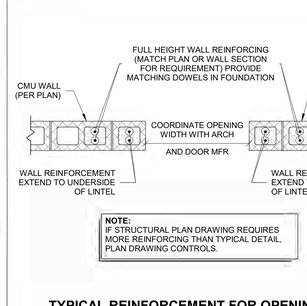


26 TYPICAL REINFORCING OVER GIRDERS
SCALE: 1/2" = 1'-0"



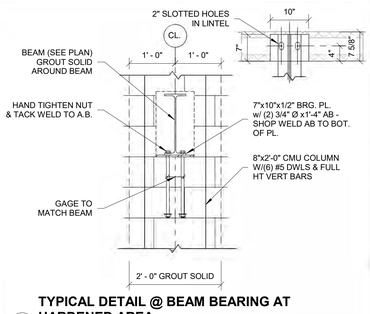
NOTES:
1. MP2, SEE MAS. PIER SCHEDULE
2. REINFORCING PER LINTEL SCHEDULE OR LINTEL DETAILS EXTEND 2'-0" PAST OPENING OR 1'-0" PLUS STD HOOK.
3. (1)-#6 SILL BAR, EXTEND 2'-0" PAST OPENING.
4. (1)-#4 EACH SIDE OF OPENING U.N.O. EXTEND 2'-0" PAST OPENING.
5. WHEN "W" IS LESS THAN 2'-0" AT 8" CMU WALL AND 3'-0" AT 12" CMU WALLS, ADD 1/4" CLOSED TIE SETS AT 8"O.C.

21 TYPICAL CMU WALL REINFORCING @ OPENINGS
SCALE: 1/8" = 1'-0"



NOTE:
IF STRUCTURAL PLAN DRAWING REQUIRES MORE REINFORCING THAN TYPICAL DETAIL, PLAN DRAWING CONTROLS.

11 TYPICAL REINFORCEMENT FOR OPENING IN CMU WALL
SCALE: 3/4" = 1'-0"



6 TYPICAL DETAIL @ BEAM BEARING AT HARDENED AREA
SCALE: 3/4" = 1'-0"

MASONRY LINTEL SCHEDULE					
MARK	WALL WIDTH	CLEAR OPENING	SECTION	REMARKS	MAS. PIER @ JAMBS
ML1	8" OR 12"	0" TO 3'-4"	8" TALL W/(2)-#5 BOTTOM		MP1
ML2	8" OR 12"	>3'-4" TO 7'	16" TALL W/ (2)-#6 BOTTOM & TOP	KNOCKOUT BLOCK; LINTEL BLOCK	MP2
ML3	8" OR 12"	>7' TO 9'-0"	16" TALL W/ (2)-#8 BOTTOM & TOP	KNOCKOUT BLOCK; LINTEL BLOCK	MP2
ML4	8"	>9' TO 11'-0"	24" TALL W/ (2)-#8 BOTTOM & TOP	KNOCKOUT BLOCK; LINTEL BLOCK	MP3

NOTES:
1. PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL.
2. USE THIS SCHEDULE FOR LINTELS NOT SPECIFICALLY CALLED OUT.

1 MASONRY LINTEL SCHEDULE
SCALE: 3/4" = 1'-0"

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STRUCTURAL TYPICAL DETAILS

S0.6

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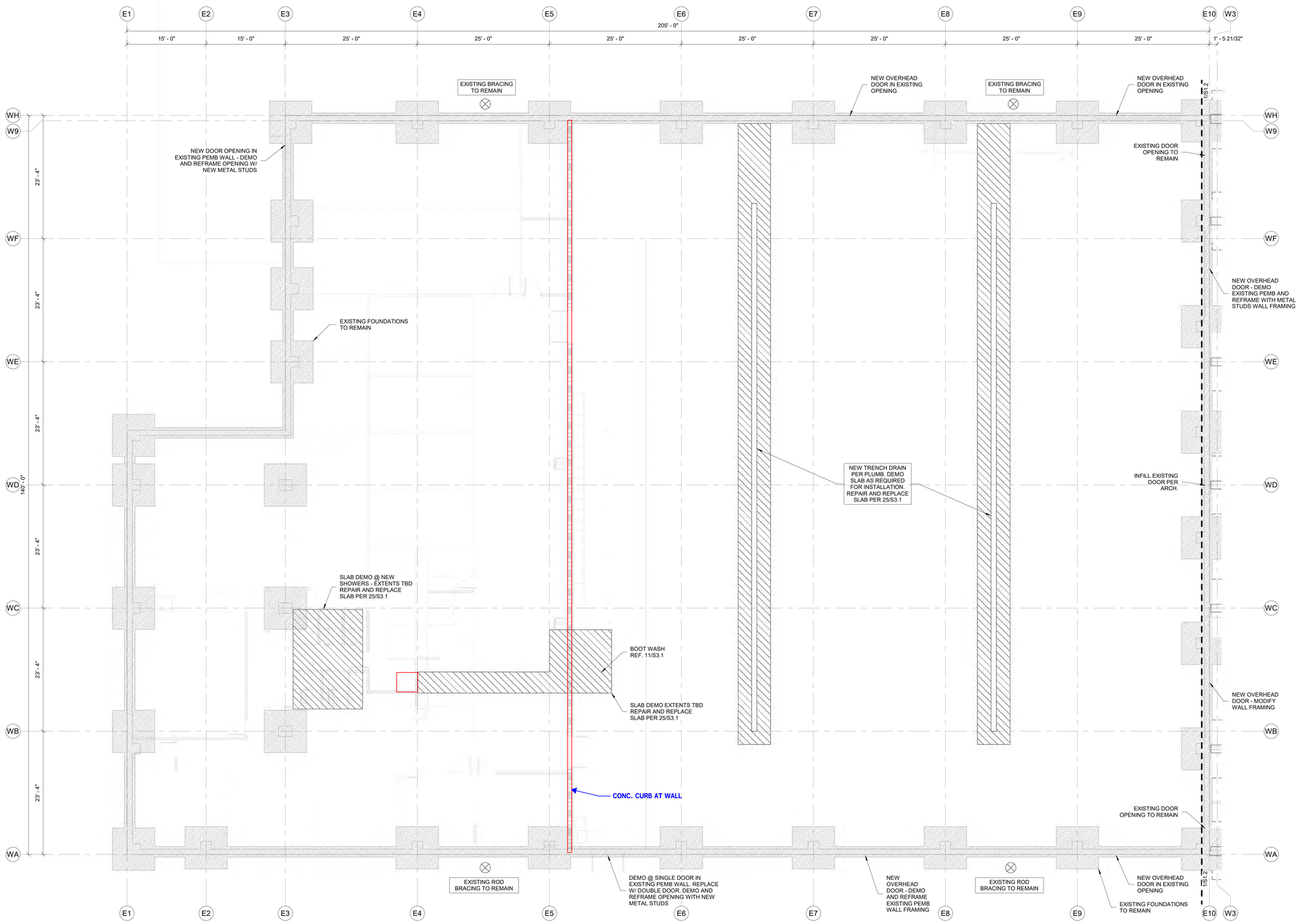

STRUCTURAL FOUNDATION PLAN - OPERATIONS BUILDINGS
SCALE: 1/8" = 1'-0"
NORTH

FOUNDATION PLAN NOTES:

1. REF. SHEET S0.1 - S0.2 FOR STRUCTURAL GENERAL NOTES.
2. REF. SHEET S1.1 FOR THE BELOW SCHEDULES:
   A. FOOTING
   B. STEEL COLUMN
3. REF. SHEET S0.3 FOR TYPICAL FOUNDATION AND SLAB ON GRADE DETAILS.
4. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING MISSING DIMENSIONS.
5. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE. WHICH CORRESPONDS TO AN ACTUAL ELEVATION OF [XXX.X']
6. SLAB ON GRADE:
   A. OFFICE: 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 6x6/W1.4 x W1.4 WWF PLACED IN UPPER THIRD OF SLAB.
   B. HARDENED AREA: 5" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 6x6/W2.9 x W2.9 WWF PLACED IN UPPER THIRD OF SLAB.
   C. WAREHOUSE, MAINTENANCE, AND VEHICLE STORAGE BUILDINGS: 7" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 6x6/W2.9 x W2.9 WWF PLACED IN UPPER THIRD OF SLAB, UNLESS NOTED OTHERWISE ON PLAN.
7. PLACE SLAB ON 15 MIL. VAPOR BARRIER, OVER 4" MINIMUM CRUSHED & COMPACTED ROCK. COMPACT TO 95% STANDARD PROCTOR.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, DEPRESSED SLABS, STEPPED SLABS, STOOPS AND NON-BEARING PARTITION WALLS.
9. PLACE ALL EXTERIOR STOOP SLABS OVER COMPACTED CLEAN GRANULAR FILL MATERIAL PER TYPICAL DETAILS. DEPTH TO MATCH LOCAL FROST REQUIREMENTS.
10. T/SLAB OF NEW SLAB ON GRADE TO MATCH T/SLAB EXISTING SLAB AT VEHICLE BLDG & WAREHOUSE. FIELD VERIFY EXISTING ELEVATIONS AT POINTS OF MATCHING CONTACT PRIOR TO FINAL GRADING.
11. TOF (EXTERIOR) ELEVATION = @ OFFICE 98'-8", @ WAREHOUSE , MAINTENANCE, COVERED STORAGE 98'-0" UNLESS NOTED OTHERWISE ON PLAN.
12. TOF (INTERIOR) ELEVATION = 99'-0" UNLESS NOTED OTHERWISE ON PLAN.
13. COORDINATE TOP OF FOOTING ELEVATIONS WITH CROSSING MECHANICAL PLUMBING LINE INVERTS AND ELECTRICAL LINE LOCATIONS. STEP FOOTINGS DOWN ON EITHER SIDE OF LINE AND SLEEVE THROUGH FOUNDATION WALLS.
14. SEE ARCHITECTURAL & CIVIL DRAWINGS FOR FOUNDATION AND UNDERSLAB DRAINAGE SYSTEM.
15. CRSI - "MANUAL OF STANDARD PRACTICE". DO NOT STICK DOWELS INTO WET CONCRETE. TIE IN PLACE PRIOR TO START OF CONCRETE PLACEMENT.

STRUCTURAL FOUNDATION SCHEDULE

MARK	SIZE	REINFORCING
F5	5'-0" x 5'-0" x 1'-6"	(6) #6 EACH WAY (TOP & BOTTOM)
F6	6'-0" x 6'-0" x 1'-6"	(6) #6 EACH WAY (TOP & BOTTOM)
F6A	6'-0" x 6'-0" x 2'-0"	(6) #7 EACH WAY (TOP & BOTTOM)
F7	7'-0" x 7'-0" x 2'-0"	(7) #7 EACH WAY (TOP & BOTTOM)
F8	8'-0" x 8'-0" x 1'-6"	(8) #6 EACH WAY (TOP & BOTTOM)
F9	9'-0" x 9'-0" x 2'-0"	(9) #7 EACH WAY (TOP & BOTTOM)
F10	10'-0" x 10'-0" x 2'-0"	(10) #7 EACH WAY (TOP & BOTTOM)
F11	11'-0" x 11'-0" x 2'-0"	(11) #7 EACH WAY (TOP & BOTTOM)
F12	12'-0" x 12'-0" x 2'-0"	(12) #7 EACH WAY (TOP & BOTTOM)

STRUCTURAL STEEL COLUMN SCHEDULE

MARK	SIZE	COMMENTS
C6	HSS6x6x3/8	
C8	HSS8x8x1/2	

NOTES:

1. USE BASE PLATE TYPE LISTED IN THE COLUMN SCHEDULE UNLESS DIRECTED OTHERWISE BY DETAIL REFERENCE OR SECTION CUT. (ESPECIALLY @ BRACE FRAMES). SEE SHEET 6/S3.2 FOR BASE PLATE DETAILS.

STRUCTURAL PIER SCHEDULE

MARK	SIZE (B x L)	REINFORCING
P1	1'-6" x 2'-6"	
P2	1'-6" x 2'-8"	
P3	2'-6" x 3'-6"	
P4	1'-6" x 1'-6"	

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STRUCTURAL FOUNDATION PLAN - OPERATIONS BUILDING

S1.1

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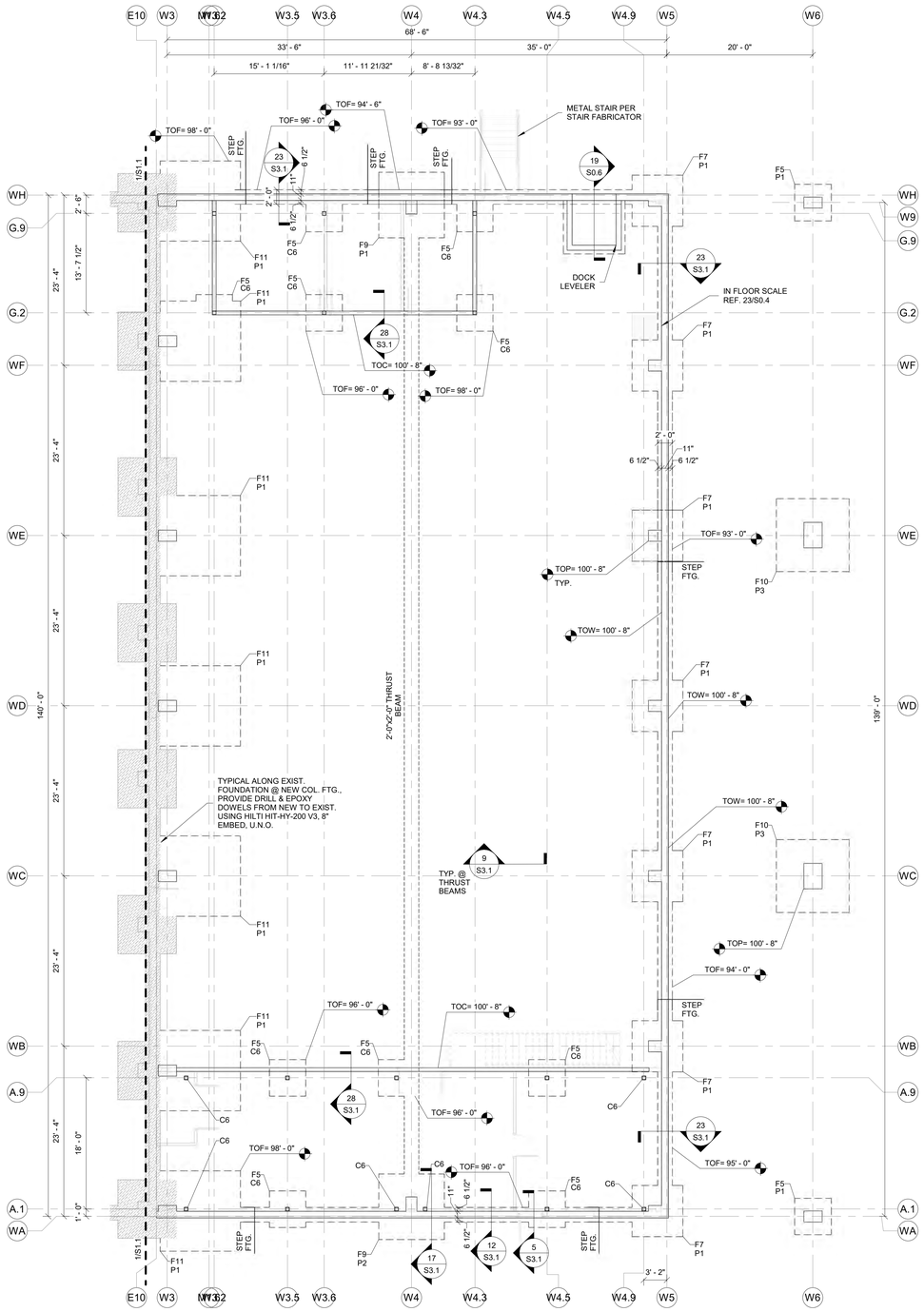

STRUCTURAL FOUNDATION PLAN - WAREHOUSE
SCALE: 1/8" = 1'-0"
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FOUNDATION PLAN NOTES:

1. REF. SHEET S1.1 FOR FOUNDATION PLAN NOTES.

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STRUCTURAL FOUNDATION PLAN - WAREHOUSE

S1.2

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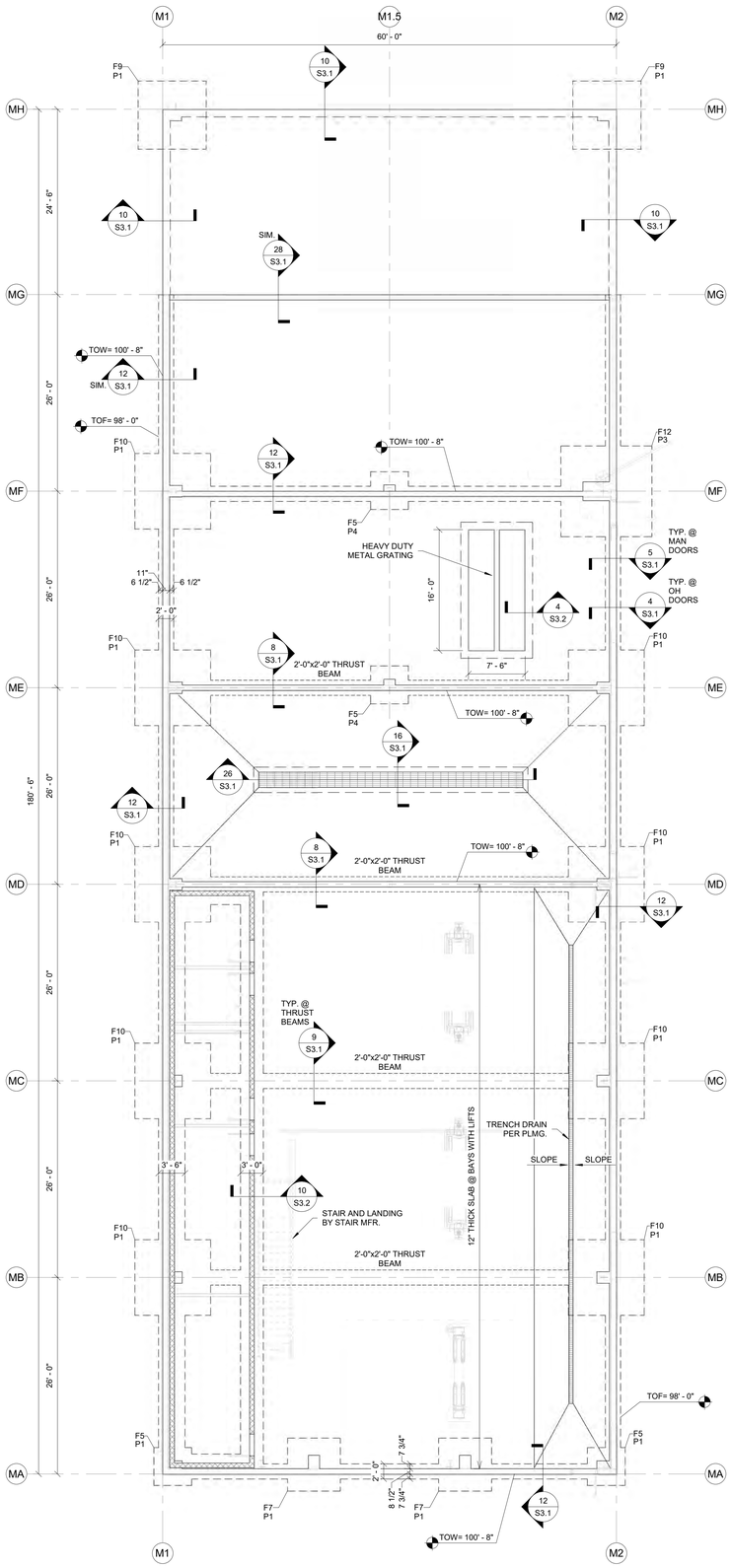
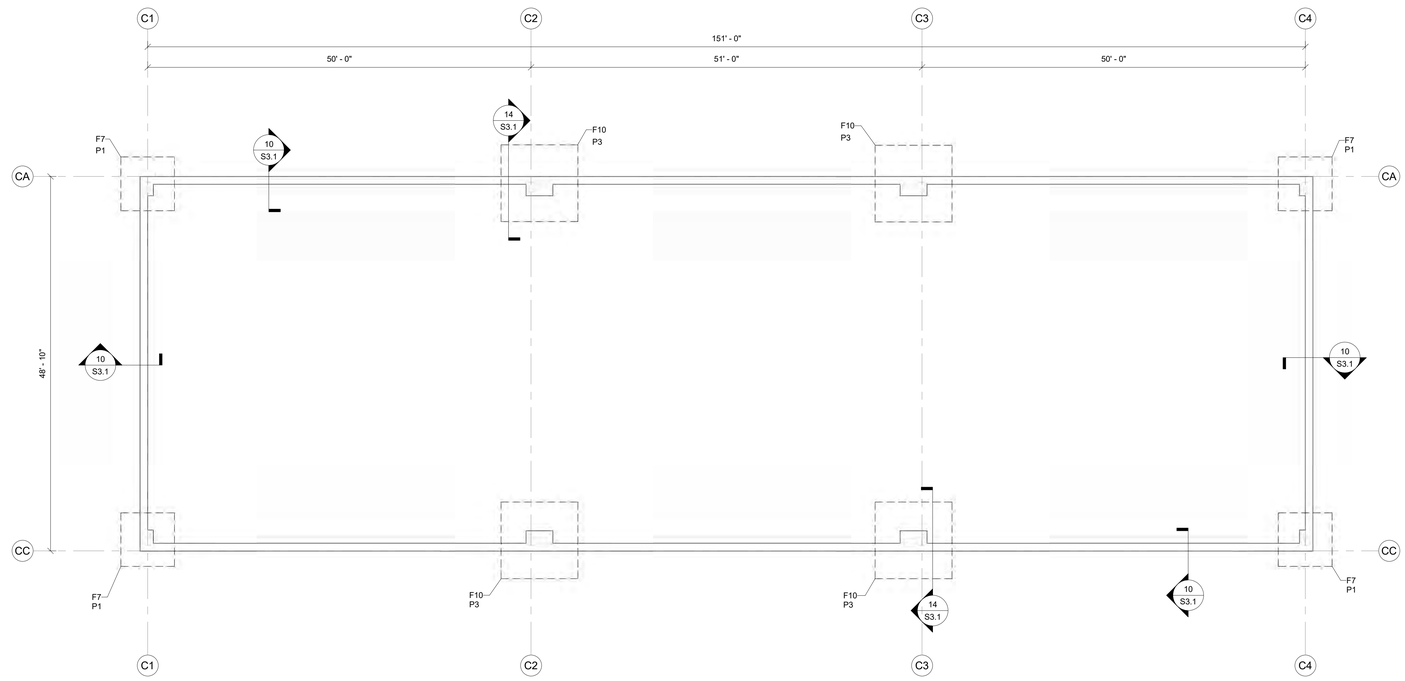


STRUCTURAL FOUNDATION PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
NORTH



STRUCTURAL FOUNDATION PLAN - COVERED STORAGE
SCALE: 1/8" = 1'-0"
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FOUNDATION PLAN NOTES:

1. REF. SHEET S1.1 FOR FOUNDATION PLAN NOTES.

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STRUCTURAL FOUNDATION PLAN - MAINTENANCE & COVERED STORAGE

S1.3

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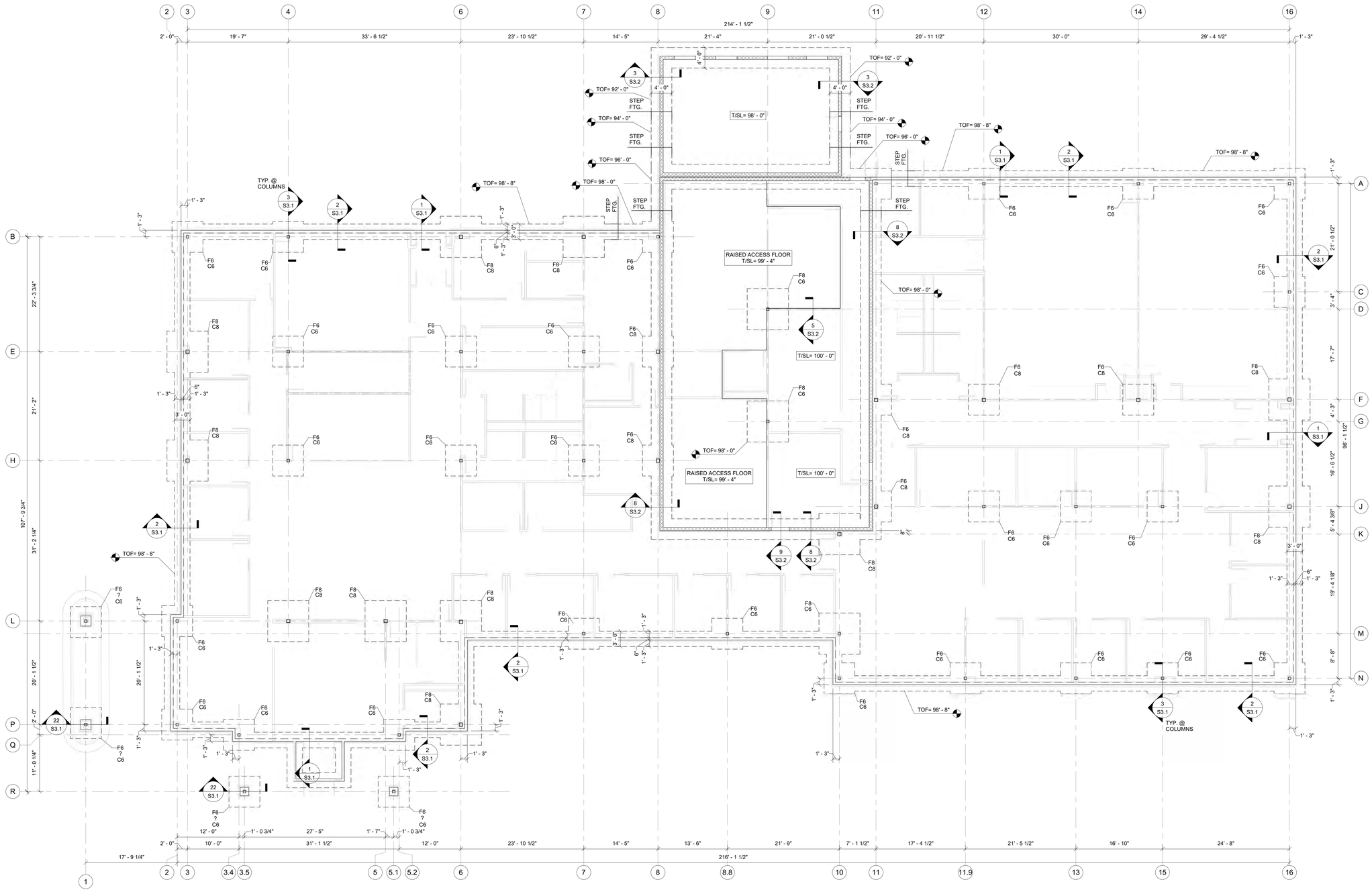
FOUNDATION PLAN NOTES:

1. REF. SHEET S1.1 FOR FOUNDATION PLAN NOTES.



STRUCTURAL FOUNDATION PLAN - OFFICE
SCALE: 1/8" = 1'-0"
NORTH

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STRUCTURAL FOUNDATION PLAN - OFFICE

S1.4

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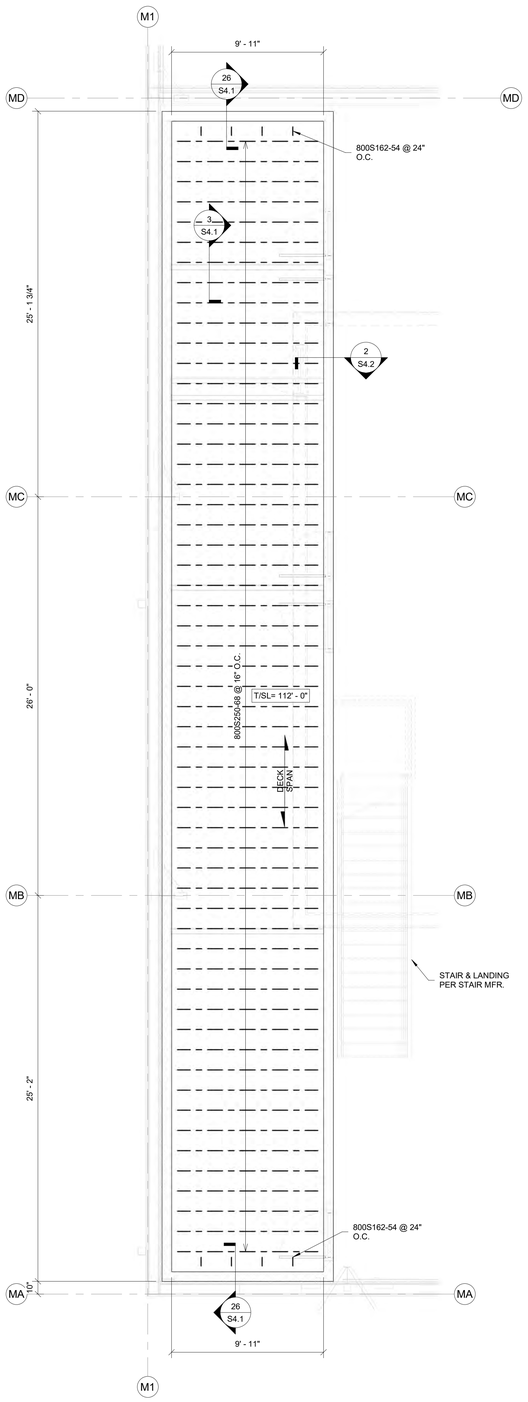
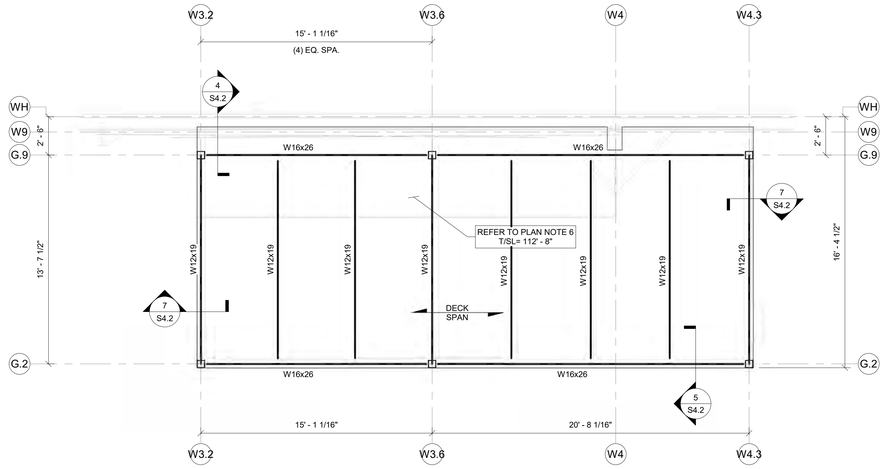
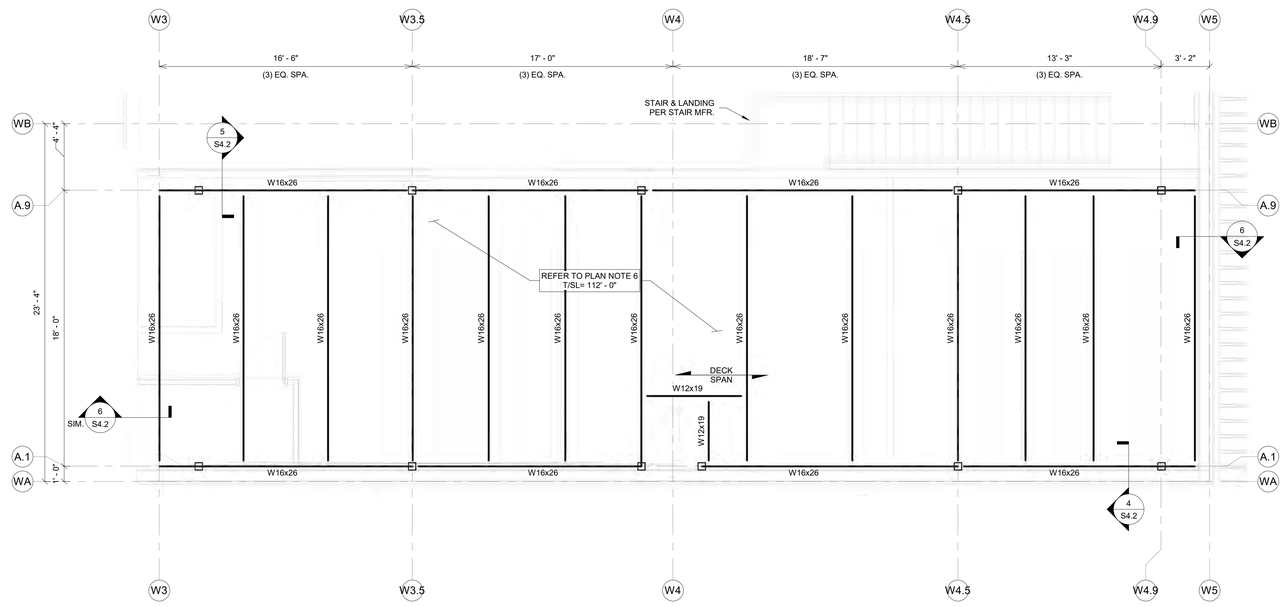


STRUCTURAL MEZZANINE FRAMING PLAN - MAINTENANCE
SCALE: 1/4" = 1'-0"
NORTH



STRUCTURAL MEZZANINE FRAMING PLAN - WAREHOUSE NORTH
SCALE: 1/4" = 1'-0"
NORTH



STRUCTURAL MEZZANINE FRAMING PLAN - WAREHOUSE SOUTH
SCALE: 1/4" = 1'-0"
NORTH

ENLARGED FRAMING PLAN NOTES:

GENERAL

1. SEE SHEET S0.1 & S0.2 FOR GENERAL STRUCTURAL NOTES, INCLUDING MATERIAL STRENGTHS.
2. SEE SHEET S1.2 FOR COLUMN AND FOOTING SCHEDULES.
3. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING MISSING DIMENSIONS.

METAL FLOOR DECK/SLAB

4. INDICATES SPAN DIRECTION OF DECK.
5. TOP OF SLAB ELEVATION PER PLAN.
6. AT MEZZANINE: PROVIDE 2" - 20 GA. GALV. COMPOSITE METAL DECK WITH 3" NORMAL WEIGHT CONCRETE TOPPING (5" TOTAL THICKNESS). REINFORCE W/ 6 x 6 - W2.1 x W2.1 WWF. REFER TO 6/S0.6 FOR DECK ATTACHMENT.
7. SEE 20/S0.5 FOR TYPICAL OPENING FRAME IN FLOOR SLAB. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING LOCATIONS AND SIZE. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN SLAB WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL.
8. SLAB IS TO BE LEVEL AFTER BEAM AND DECK DEFLECTION HAS OCCURRED DUE TO CONCRETE WEIGHT. PROVIDE ADDITIONAL CONCRETE REQUIRED TO ACCOUNT FOR DEFLECTIONS AND TO ACHIEVE A LEVEL SLAB. SCREED OFF OF COLUMNS OR WALLS TO ASSURE OVERALL FLATNESS AND LEVELNESS.

STEEL FLOOR BEAMS

9. T/BEAM ELEVATION PER PLAN.
10. SERVICE REACTIONS FOR STEEL BEAMS ARE SHOWN AS (12k) ON PLAN NEAR END OF BEAM. WHERE NOT NOTED, STEEL SUPPLIER TO PROVIDE CONNECTIONS PER STRUCTURAL GENERAL NOTES.
11. ADDITIONAL TENSION CONNECTION DESIGN LOADS INDICATED [10k] ON PLAN.
12. SEE DETAIL 23/S0.4 FOR STEEL BEAM BEARING PLATES AT MASONRY WALLS.
13. AT BEARING WALLS LOCATE MECHANICAL OPENINGS MINIMUM 16 INCHES FROM BEAM BEARING LOCATIONS. SEE MECHANICAL DRAWINGS FOR OPENING LOCATIONS NOT SHOWN.
14. AT LID CONSTRUCTION: ATTACH 3/4" FIRE RETARDANT PLYWOOD DECK WITH #10 TEKS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD.
15. METAL STUD BEARING WALLS TO BE 16 GA MIN @ 16" O.C..
16. AT LID CONSTRUCTION: PROVIDE 5/8" GYPSUM BOARD TO BE USED AS PART OF THE SHEARWALLS TO RESIST LATERAL LOADING. MINIMUM ATTACHMENT TO STUDS: #10 TEKS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD.
17. DENOTES MOMENT CONNECTION (CONNECTION DESIGN BY FABRICATOR)
18. REFER TO COLD FORMED HEADER (H-#) AND MASONRY LINTEL (ML#) SCHEDULES ON SHEET S0.4.

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STRUCTURAL MEZZANINE PLANS

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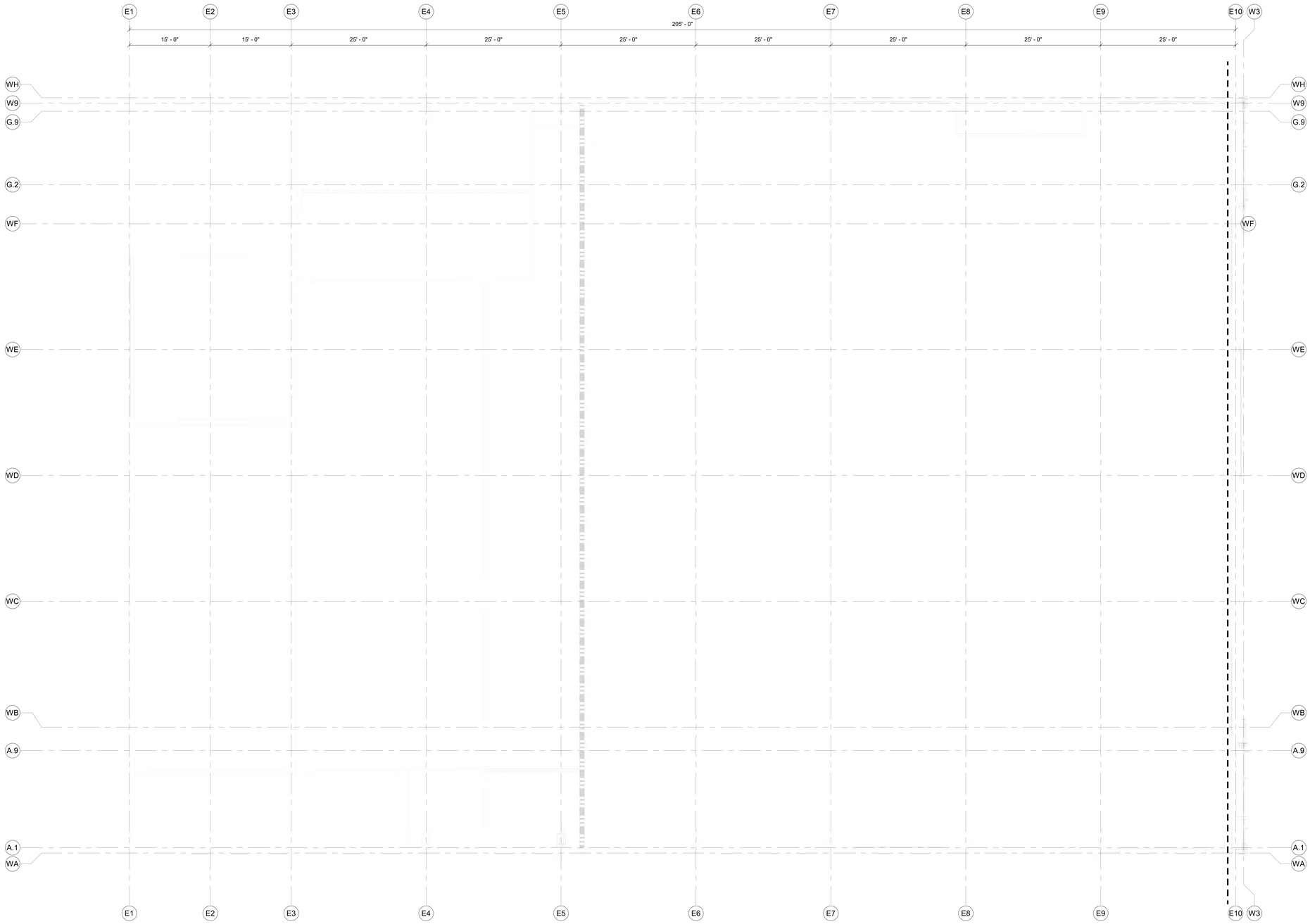

STEEL ROOF FRAMING PLAN - OPERATIONS BUILDING

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

NORTH

STEEL ROOF FRAMING PLAN NOTES:

1. GENERAL
   A. REF. SHEET S0.1 - S0.2 FOR STRUCTURAL GENERAL NOTES.
   B. REF. SHEET S1.1 FOR THE BELOW SCHEDULES:
      a. COLUMN
   C. REF. SHEET S0.5 FOR TYPICAL STEEL DETAILS.
   D. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING MISSING DIMENSIONS.
   E. ◄——► INDICATES DECK SPAN DIRECTION. REF PLAN FOR SPAN DIRECTION.
   F. REFERENCE PLAN FOR BOTTOM OF DECK (BOD) ELEVATION. DECK SLOPES UNIFORMLY BETWEEN THE INDICATED ELEVATIONS.
   G. PROVIDE [1 1/2" - 20] GA. GALV. WIDE RIB METAL ROOF DECK CONTINUOUS OVER THREE SUPPORTS.
   H. REF TYPICAL DETAILS FOR:
      a. DECK ATTACHMENT TO SUPPORTING STEEL MEMBERS.
2. STEEL ROOF BEAMS
   A. TOP OF STEEL (TOS) ELEVATION: = 114'-0" U.N.O.
   B. SERVICE REACTIONS FOR STEEL BEAMS ARE SHOWN ON PLAN NEAR END OF BEAM. WHERE NOT NOTED, STEEL SUPPLIER TO PROVIDE CONNECTIONS PER STEEL GENERAL NOTES.
   C. [ADDITIONAL TENSION CONNECTION DESIGN LOADS INDICATED ON PLAN.]
   D. [REFERENCE TYPICAL DETAILS FOR STEEL BEAM BEARING PLATES.]
   E. AT BEARING WALLS LOCATE MECHANICAL OPENINGS MINIMUM 16 INCHES FROM BEAM BEARING LOCATIONS. SEE MECHANICAL DRAWINGS FOR OPENING LOCATIONS NOT SHOWN.

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STRUCTURAL ROOF FRAMING PLAN - OPERATIONS BUILDING

S2.1

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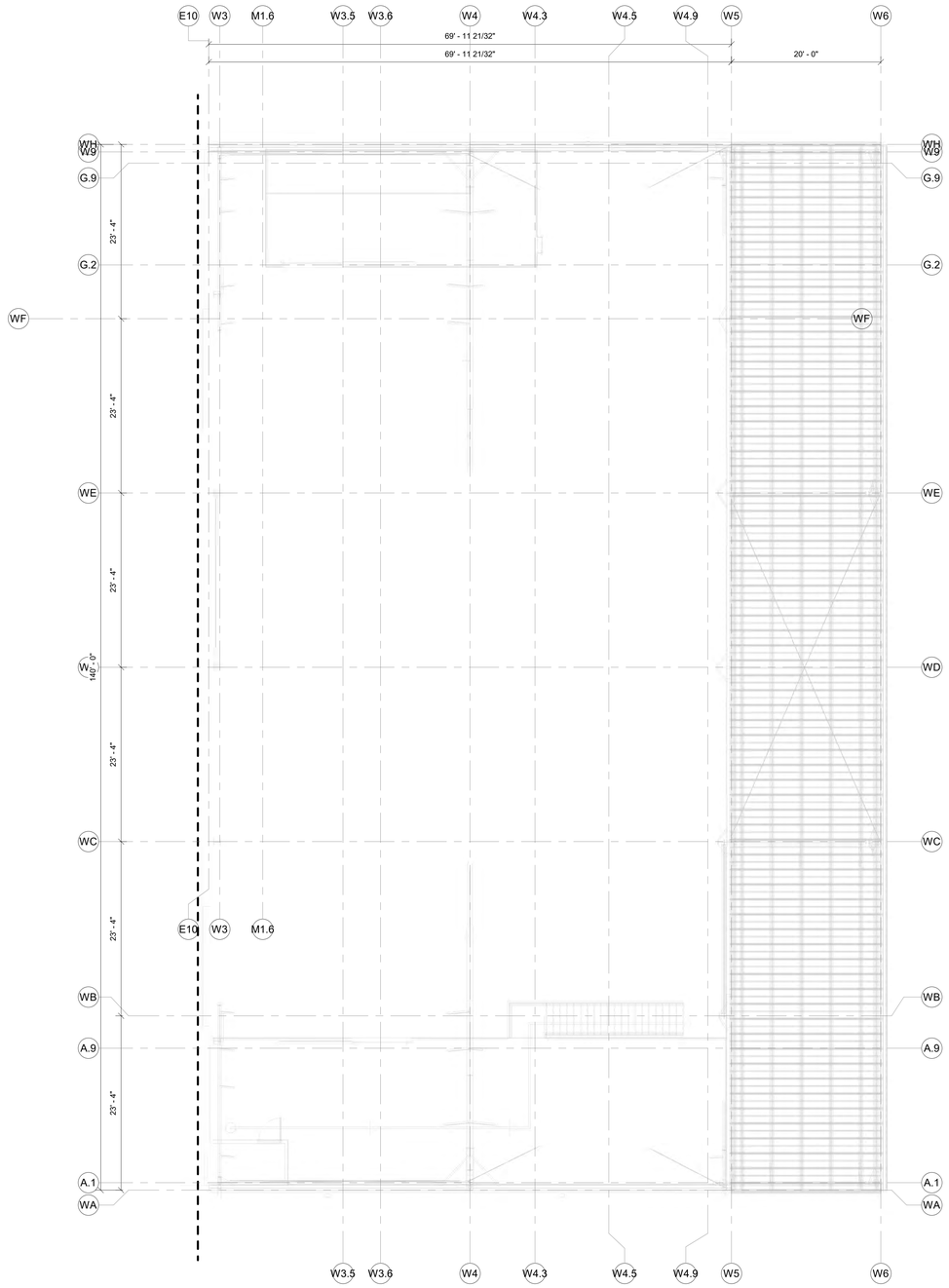
ROOF FRAMING PLAN NOTES:

1. REF. SHEET S2.1 FOR ROOF FRAMING PLAN NOTES.



STRUCTURAL ROOF FRAMING PLAN - WAREHOUSE
SCALE: 1/8" = 1'-0"
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STRUCTURAL ROOF FRAMING PLAN - WAREHOUSE

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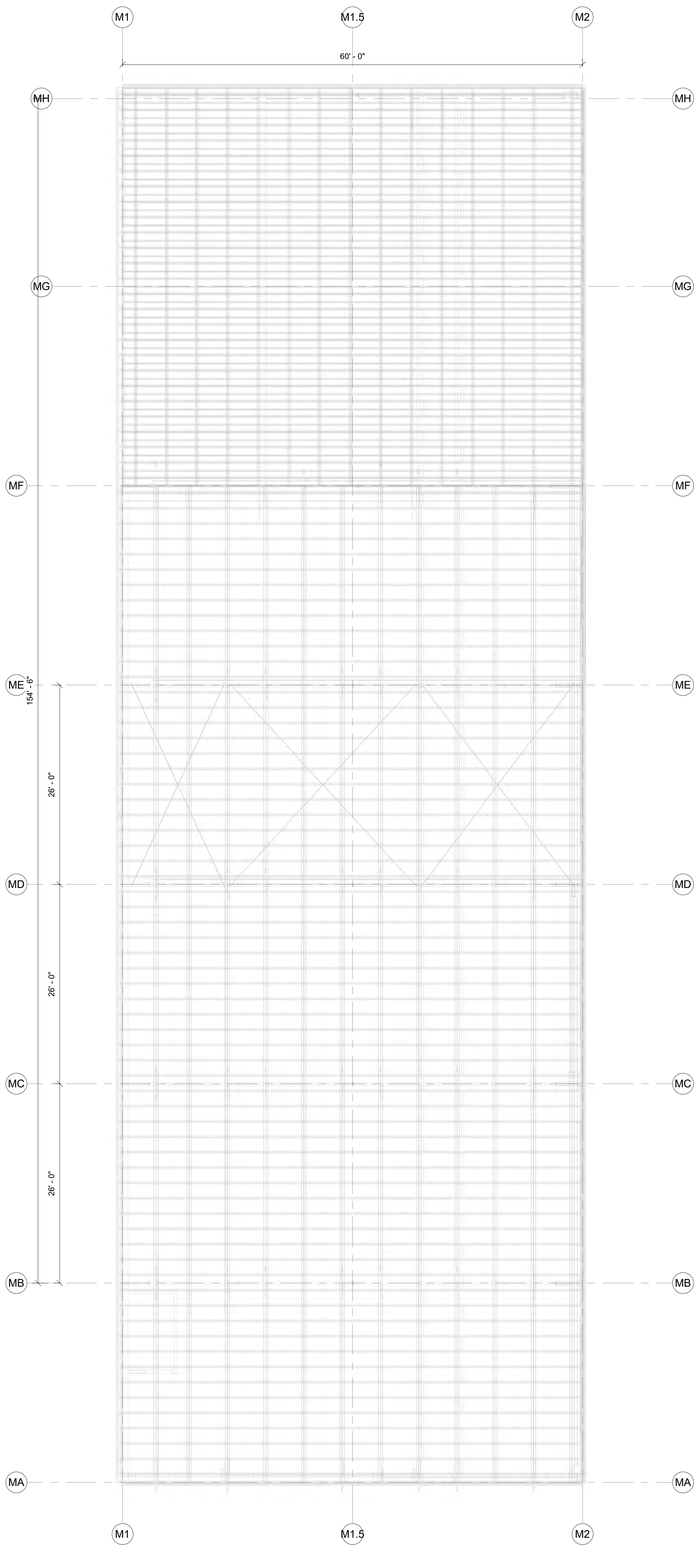
ROOF FRAMING PLAN NOTES:

1. REF. SHEET S2.1 FOR ROOF FRAMING PLAN NOTES.



STRUCTURAL ROOF FRAMING PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
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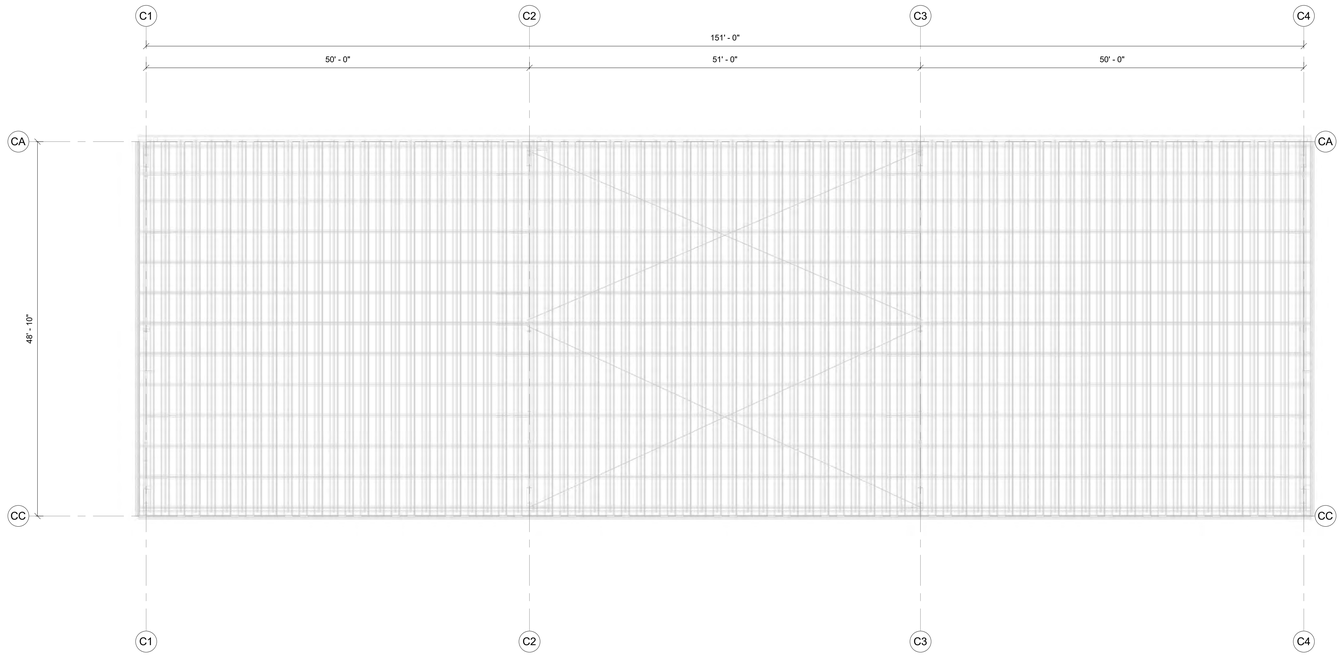

STRUCTURAL ROOF FRAMING PLAN - COVERED STORAGE
SCALE: 1/8" = 1'-0"
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Sheet Issue Date:	04/07/14
Job Number:	2025456
Drawn By:	Author
Checked By:	Checker

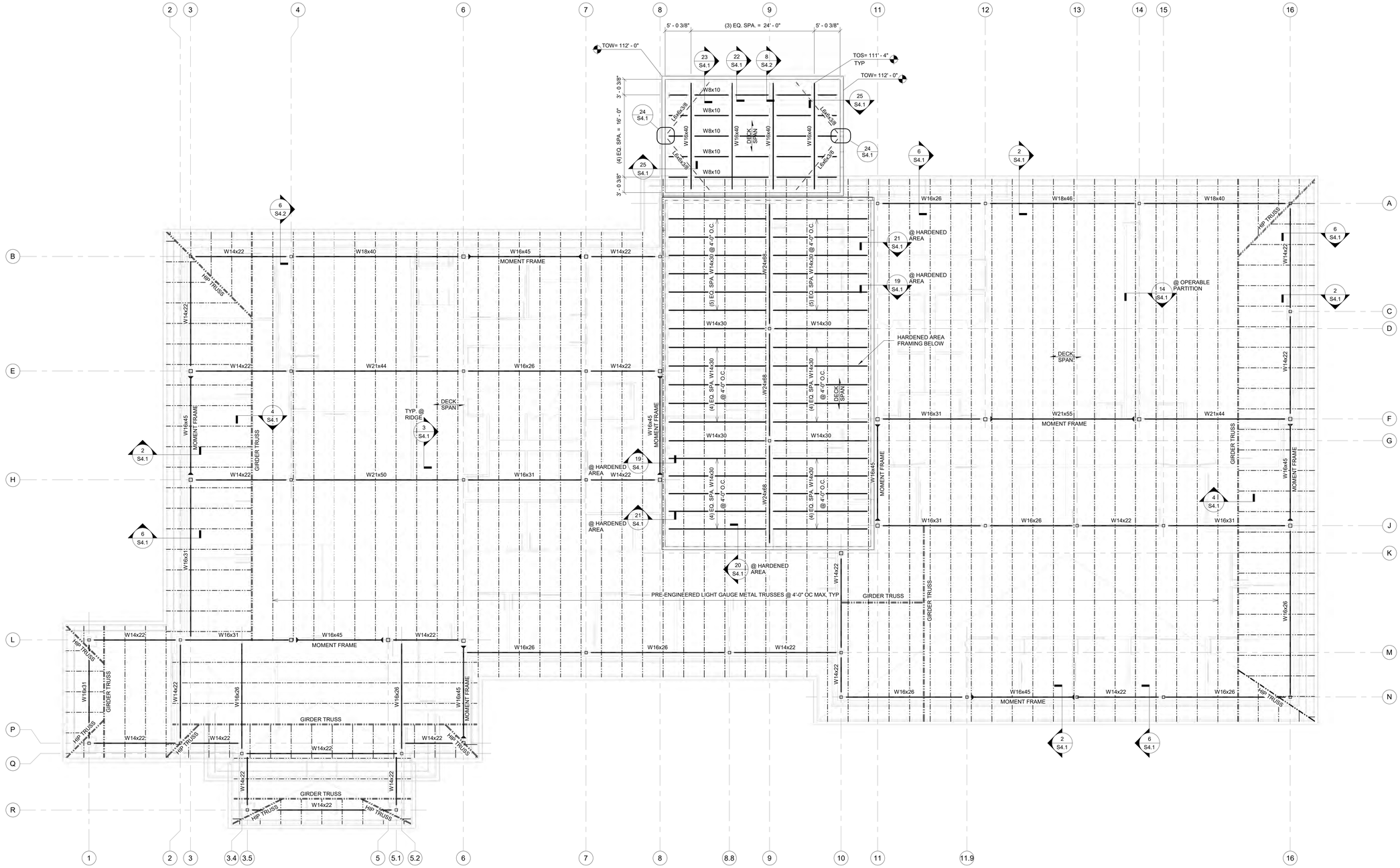
Drawing Title:
STRUCTURAL ROOF FRAMING PLAN - MAINTENANCE & COVERED STORAGE

S2.3

SSC JOB# 2025456_NOT FOR CONSTRUCTION

ROOF FRAMING PLAN NOTES:

1. REF. SHEET S2.1 FOR ROOF FRAMING PLAN NOTES.



STRUCTURAL ROOF FRAMING PLAN - OFFICE
SCALE: 1/8" = 1'-0"
NORTH

M+H ARCHITECTS

ARCHITECT:
Mitchell and Hugeback Architects, Inc.
D.B.A. M+H Architects
12747 Olive Blvd., Suite 150
St. Louis, MO 63141
314-878-3500
www.mha.us.com

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KENTUCKY CERTIFICATE OF AUTHORITY #3012

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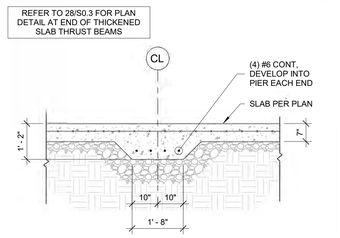
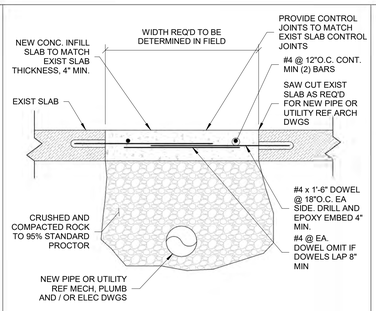
Drawing Title:
STRUCTURAL ROOF FRAMING PLAN - OFFICE

S2.4

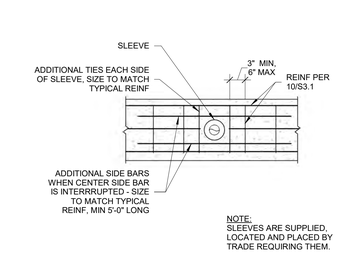
SSC JOB# 2025456_NOT FOR CONSTRUCTION



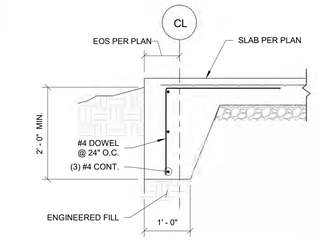
30 SECTION @ WEST VEHICLE THICKENED SLAB
SCALE: 1/2" = 1'-0"



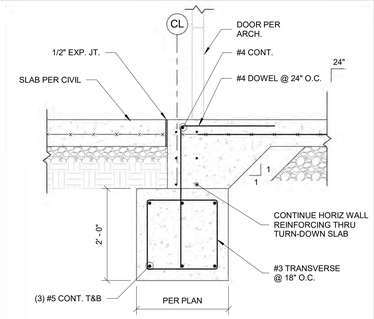
25 SLAB REPAIR AT NEW PIPE LOCATIONS
NOT TO SCALE



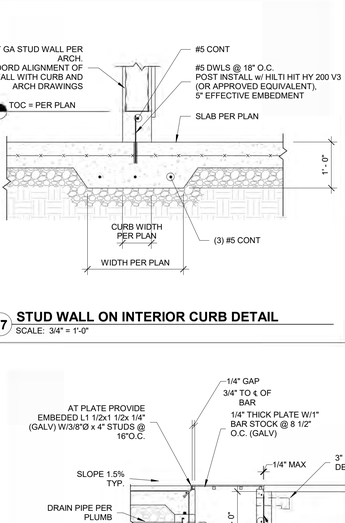
15 GRADE BEAM REINFORCEMENT @ SLEEVE
SCALE: 1/2" = 1'-0"



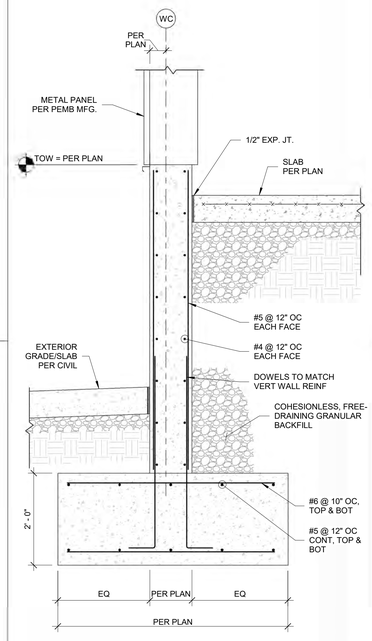
10 TURN DOWN SLAB EDGE DETAIL
SCALE: 3/4" = 1'-0"



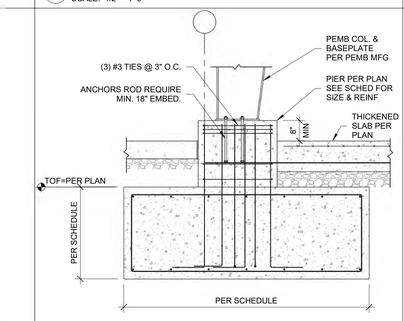
5 SECTION @ PEMB MAN DOOR
SCALE: 3/4" = 1'-0"



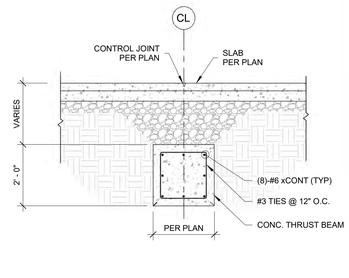
29 PLAN DETAIL @ HAIRPINS
SCALE: 3/4" = 1'-0"



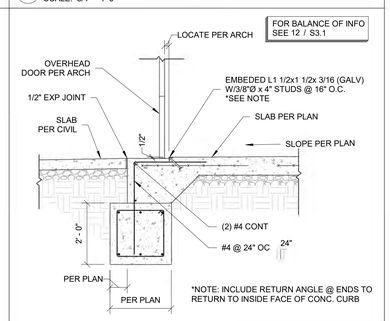
23 PEMB WALL ON RETAINING WALL
SCALE: 3/4" = 1'-0"



14 FND SECTION @ COVERED STORAGE
SCALE: 1/2" = 1'-0"



9 SECTION @ THRUST BEAM
SCALE: 1/2" = 1'-0"



4 SECTION @ OVERHEAD DOOR
SCALE: 1/2" = 1'-0"

28 WALL ON INTERIOR CURB DETAIL
SCALE: 3/4" = 1'-0"

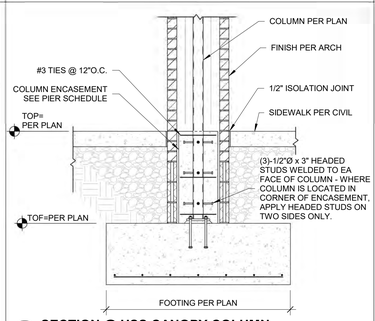
26 SECTION @ WASH BAY PIT
SCALE: 1/2" = 1'-0"

16 SECTION @ WASH BAY PIT
SCALE: 1/2" = 1'-0"

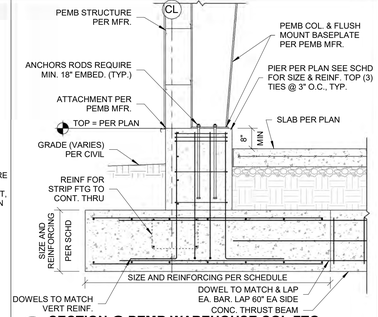
11 SECTION @ BOOT WASH
SCALE: 3/4" = 1'-0"

1 TYP FND SECTION @ DOOR - OFFICE
SCALE: 3/4" = 1'-0"

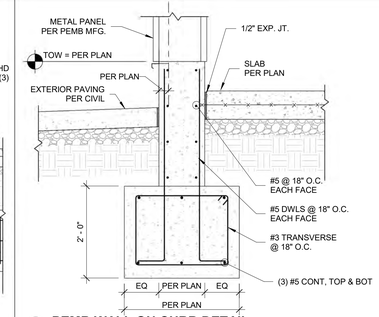
27 STUD WALL ON INTERIOR CURB DETAIL
SCALE: 3/4" = 1'-0"



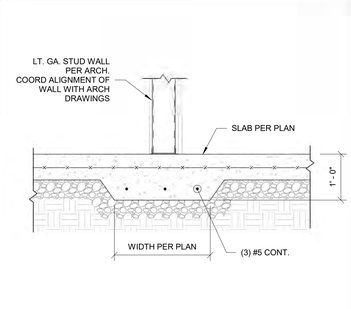
22 SECTION @ HSS CANOPY COLUMN
SCALE: 1/2" = 1'-0"



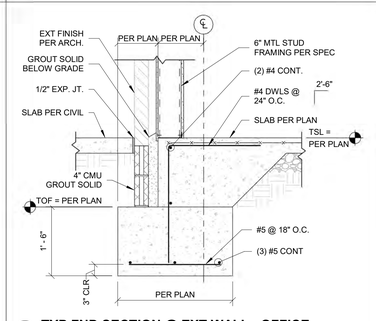
17 SECTION @ PEMB WAREHOUSE COL FTG
SCALE: 1/2" = 1'-0"



12 PEMB WALL ON CURB DETAIL
SCALE: 3/4" = 1'-0"



7 WALL ON THICKENED SLAB
SCALE: 3/4" = 1'-0"



2 TYP FND SECTION @ EXT WALL - OFFICE
SCALE: 3/4" = 1'-0"

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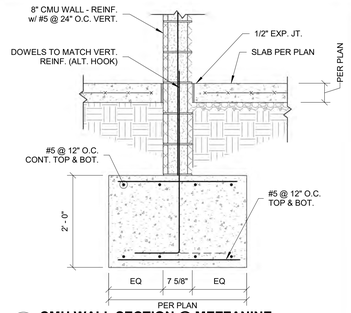
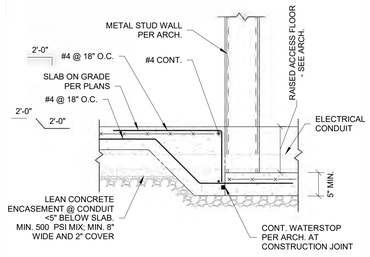
Drawing Title:
STRUCTURAL FOUNDATION SECTIONS

S3.1

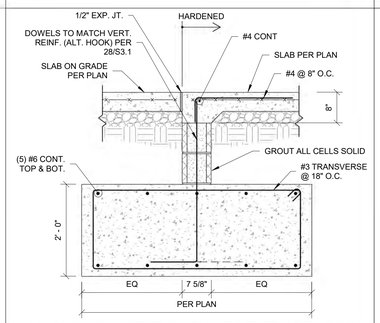
SSC JOB# 2025456_NOT FOR CONSTRUCTION



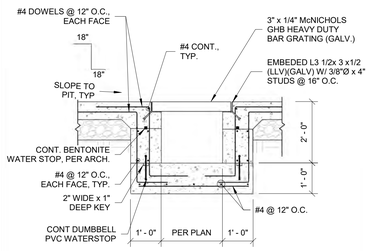
10 CMU WALL SECTION @ MEZZANINE
SCALE: 3/4" = 1'-0"



5 SECTION @ RAISED FLOOR
SCALE: 3/4" = 1'-0"



9 CMU WALL SECTION @ HARDENED AREA DOOR
SCALE: 3/4" = 1'-0"



4 SECTION @ PCB STORAGE PIT
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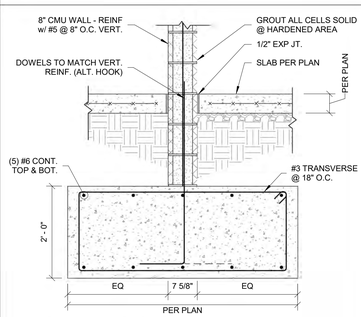
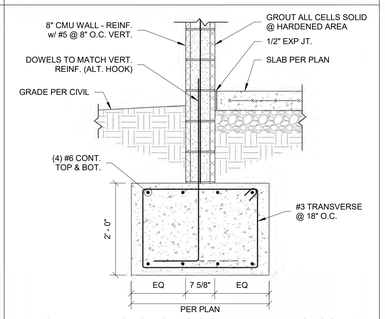


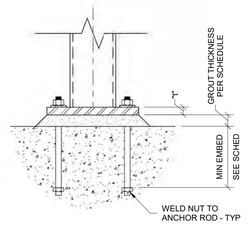
8 CMU WALL SECTION @ HARDENED AREA
SCALE: 3/4" = 1'-0"



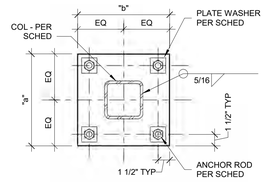
3 CMU WALL SECTION @ EQUIPMENT ENCLOSURE
SCALE: 3/4" = 1'-0"

BASE PLATE SCHEDULE						
BASE PLATE TYPE	BASE PLATE SIZE "a" x "b" x "t"	ANCHOR RODS (QUANTITY x DIA)	PLATE WASHERS	MIN EMBED	PLATE DETAIL	GROUT THICKNESS
BP-1	12"x12"x1"	(4)-3/4"Ø	2"x2"x1/4"	9"	A	2"
BP-2	-	-	-	-	-	-
BP-3	-	-	-	-	-	-
BP-4	-	-	-	-	-	-
BP-5	-	-	-	-	-	-
BP-6	-	-	-	-	-	-

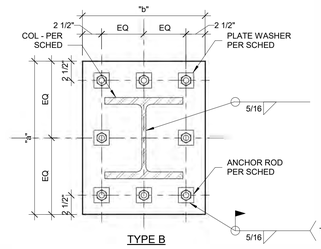
U.N.O. ALL ANCHOR RODS TO BE F1554 (GR 36)



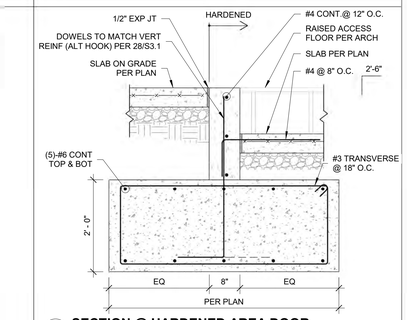
TYP ELEVATION VIEW



TYPE A



TYPE B



11 SECTION @ HARDENED AREA DOOR
SCALE: 3/4" = 1'-0"

6 BASE PLATE SCHEDULE
SCALE: 1 1/2" = 1'-0"

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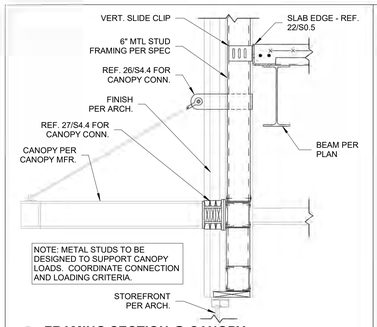
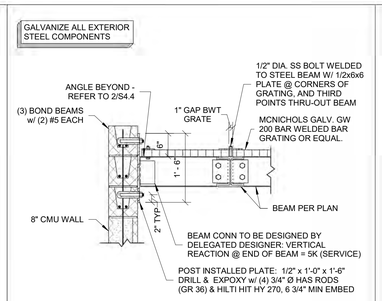
Drawing Title:
STRUCTURAL FOUNDATION SECTIONS

S3.2

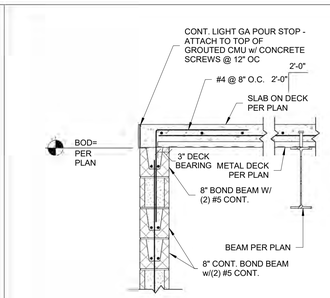
SSC JOB# 2025456_NOT FOR CONSTRUCTION



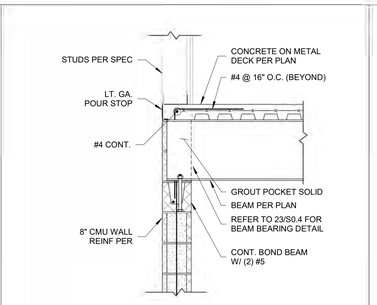
30 FRAMING SECTION @ CANOPY
SCALE: 3/4" = 1'-0"



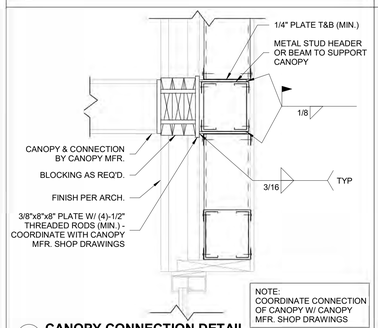
25 MECH. ENCLOSURE DETAIL
SCALE: 3/4" = 1'-0"



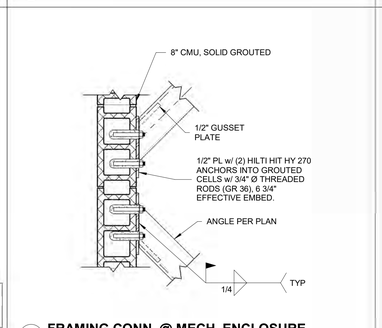
20 SECTION @ HARDENED AREA
SCALE: 3/4" = 1'-0"



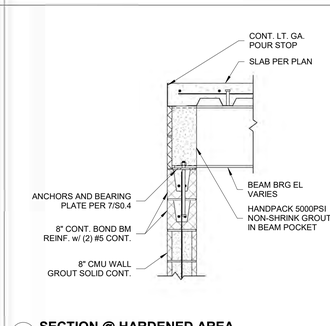
15 FRAMING SECTION @ WAREHOUSE MEZZANINE
SCALE: 3/4" = 1'-0"



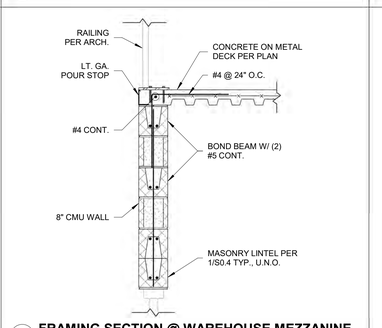
29 CANOPY CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



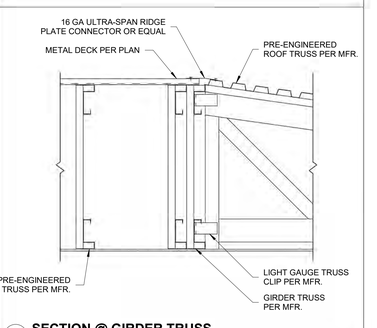
24 FRAMING CONN. @ MECH. ENCLOSURE
SCALE: 1" = 1'-0"



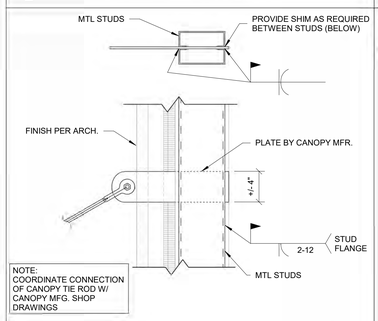
19 SECTION @ HARDENED AREA
SCALE: 3/4" = 1'-0"



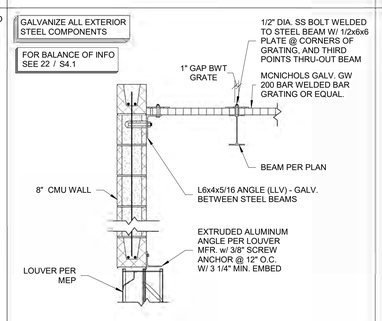
14 FRAMING SECTION @ WAREHOUSE MEZZANINE
SCALE: 3/4" = 1'-0"



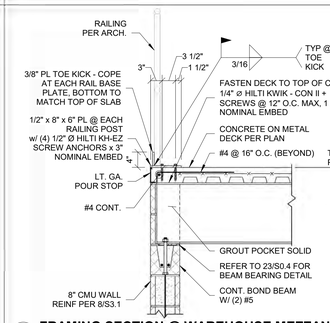
4 SECTION @ GIRDER TRUSS
SCALE: 3/4" = 1'-0"



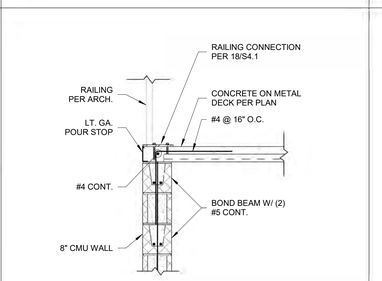
28 CANOPY CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



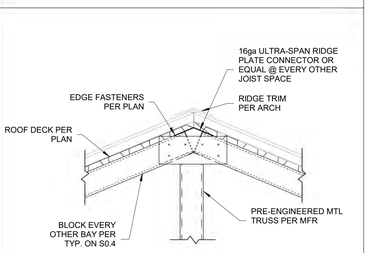
23 MECH. ENCLOSURE DETAIL
SCALE: 3/4" = 1'-0"



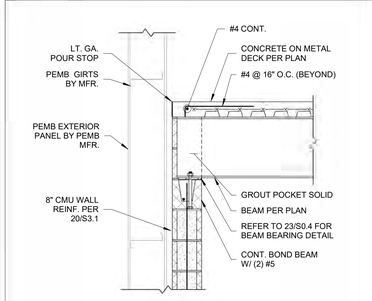
18 FRAMING SECTION @ WAREHOUSE MEZZANINE
SCALE: 3/4" = 1'-0"



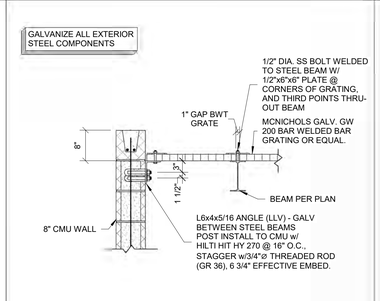
13 FRAMING SECTION @ WAREHOUSE MEZZANINE
SCALE: 3/4" = 1'-0"



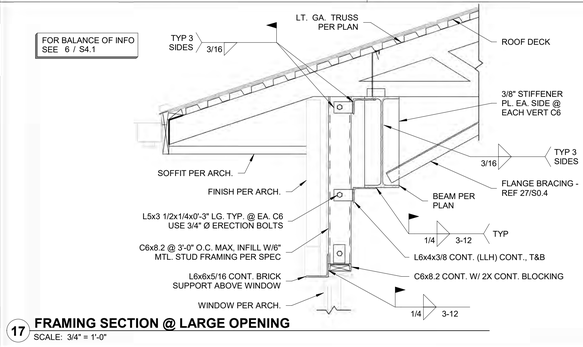
3 SECTION @ ROOF RIDGE
SCALE: 3/4" = 1'-0"



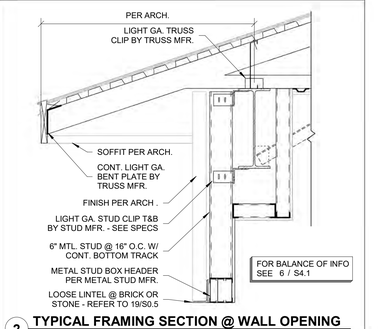
27 FRAMING SECTION @ WAREHOUSE MEZZANINE
SCALE: 3/4" = 1'-0"



22 MECH. ENCLOSURE DETAIL
SCALE: 3/4" = 1'-0"



17 FRAMING SECTION @ LARGE OPENING
SCALE: 3/4" = 1'-0"



2 TYPICAL FRAMING SECTION @ WALL OPENING
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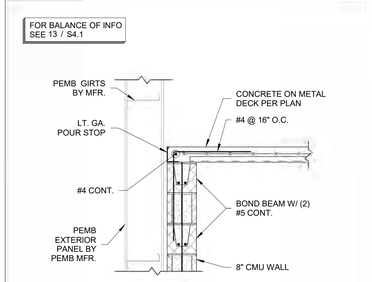
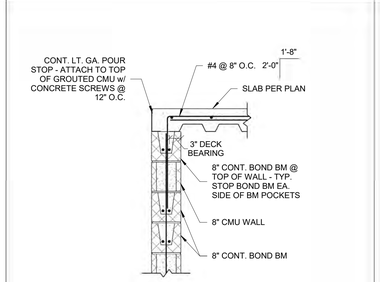
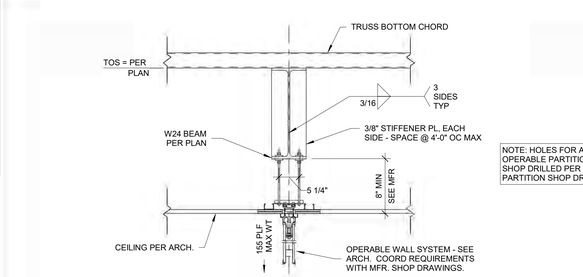


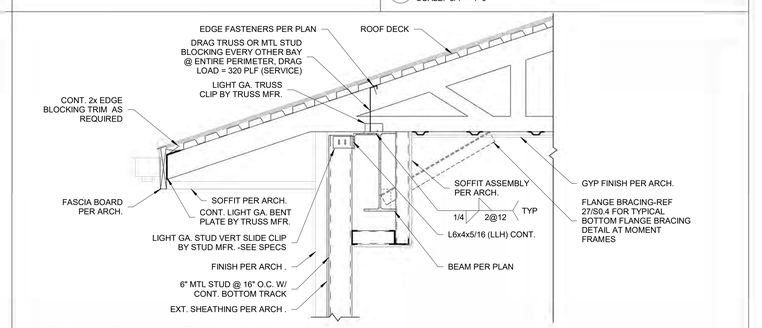
26 FRAMING SECTION @ WAREHOUSE MEZZANINE
SCALE: 3/4" = 1'-0"



21 SECTION @ HARDENED AREA
SCALE: 3/4" = 1'-0"



16 SECTION @ OPERABLE PARTITION SUPPORT BEAM
SCALE: 3/4" = 1'-0"



6 TYPICAL FRAMING SECTION @ TRUSS BEARING
SCALE: 3/4" = 1'-0"

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STRUCTURAL FRAMING SECTIONS

S4.1

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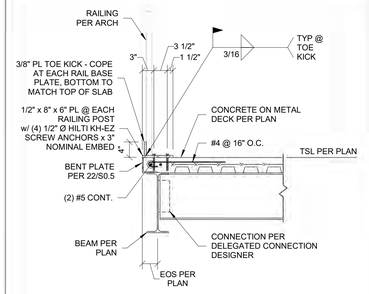
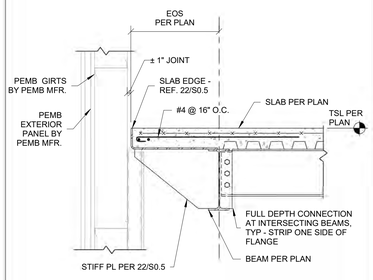


5 MEZZANINE @ HANDRAIL DETAIL
SCALE: 3/4" = 1'-0"



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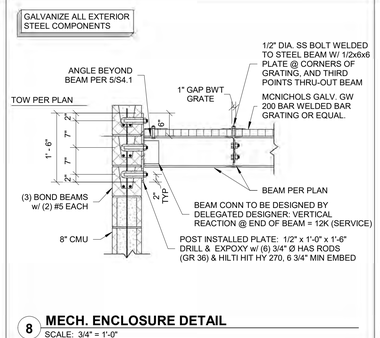
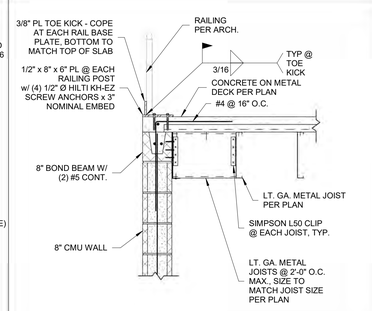
SCALE: 3/4" = 1'-0"



8 MECH. ENCLOSURE DETAIL
SCALE: 3/4" = 1'-0"



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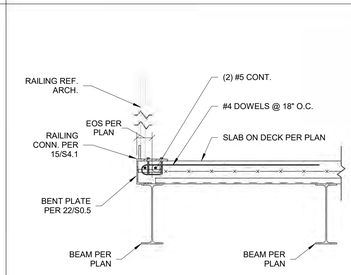
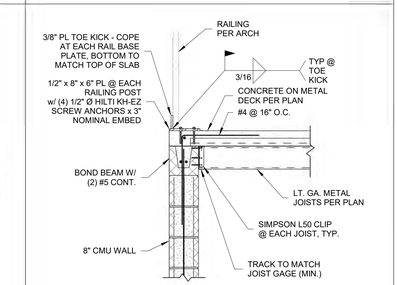
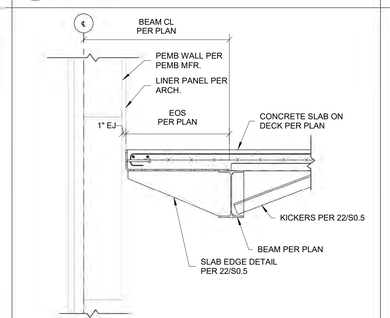
SCALE: 3/4" = 1'-0"



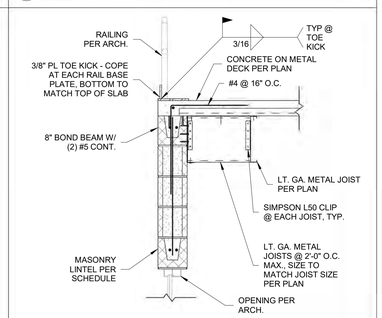
7 MEZZANINE SECTION
SCALE: 3/4" = 1'-0"



2 FRAMING SECTION @ MEZZANINE
SCALE: 3/4" = 1'-0"



6 FRAMING SECTION @ MEZZANINE
SCALE: 3/4" = 1'-0"



1 FRAMING SECTION @ MEZZANINE
SCALE: 3/4" = 1'-0"

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STRUCTURAL FRAMING SECTIONS

S4.2

SSC JOB# 2025456_NOT FOR CONSTRUCTION

MECHANICAL SYMBOLS LEGEND

S1 / #	AIR DEVICE TAG CFM	S - SUPPLY R - RETURN E - EXHAUST X - EXISTING
AHU / 1	EQUIPMENT IDENTIFICATION	X - EXISTING
D	DRAIN	
RG	REFRIGERANT HOT GAS	
RL	REFRIGERANT LIQUID	
RS	REFRIGERANT SUCTION	
HWS	HOT WATER HEATING SUPPLY	
HWR	HOT WATER HEATING RETURN	
X	PIPE ANCHOR	
CA	COMPRESSED AIR	
G	NATURAL GAS	
E	ELECTRICAL WIRING	
	DEMO PIPE OR EQUIPMENT	
	POINT OF CONNECTION NEW TO EXISTING	
	OPPOSED BLADE DAMPER	
H	HUMIDISTAT	
T	THERMOSTAT	
SD	SMOKE DETECTOR (DUCT)	
FS	FLOW SWITCH	
DPS	DIFFERENTIAL PRESSURE SWITCH	
PS	PRESSURE SWITCH	
X' - X"	BOTTOM OF DUCT ELEVATION	
24 X 12 OR 24 X 12	RECTANGULAR DUCT (FIRST NUMBER IS SURFACE SHOWN-DIMENSIONS REPRESENT OUTSIDE SHEETMETAL)	
12"Ø OR 12"Ø	ROUND DUCT	
	RECTANGULAR TO ROUND TRANSITION	
18x12 ▽12x12 18x10 ▽12x12	TRANSITION	
	DUCT WITH LINER	
R	INCLINED RISE (R) OR DROP (D) ARROW IN DIRECTION OF CHANGE	
	FLEXIBLE DUCT CONNECTION	
	SUPPLY AIR UP OR IN SECTION	
	RETURN,EXHAUST OR OUTSIDE AIR UP OR IN SECTION	
	SUPPLY AIR DOWN OR AWAY	
	RETURN,EXHAUST OR OUTSIDE AIR DOWN OR AWAY	
	RECTANGULAR ELBOW WITH TURNING VANES	
	VOLUME DAMPER	
M	MOTORIZED DAMPER	
	FIRE DAMPER/SMOKE DAMPER/COMB. FIRE SMOKE DAMPER	

MECHANICAL SYMBOLS LEGEND (CONT.)

	ROUND TAP WITH DAMPER (BOTTOM)
	CEILING MOUNTED, SQUARE SUPPLY AIR DIFFUSER 4-WAY UNLESS OTHERWISE INDICATED (ARROW INDICATES DIRECTION OF THROW)
	CEILING MOUNTED RETURN AIR GRILLE
	SIDEWALL RETURN GRILLE
	SIDEWALL SUPPLY DIFFUSER
	SUPPLY AIR SLOT DIFFUSER
	RECTANGULAR TAP WITH DAMPER (BOTTOM)
	ROUND DUCT SUPPLY UP, DN OR IN SECTION
	ROUND DUCT RETURN UP, DN OR IN SECTION
	PIPE DOWN
	PIPE UP
	TOP CONNECTION
	BOTTOM CONNECTION
	FLOW DIRECTION
	CAPPED OUTLET (UP)
	DIRT LEG (DN)
	UNION
	PIPE GUIDE
EJ	EXPANSION JOINT
	REDUCER
	BALL VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	GAS COCK
SV	SOLENOID VALVE

MECHANICAL ABBREVIATIONS

ACC	AIR COOLED CONDENSER
AC	AIR CONDITIONING UNIT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP(IN WC)
AS	AIR SEPARATOR
ASJ	ALL SERVICE JACKET
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	AIR BLENDER
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNITS
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BW	BACKWATER VALVE
CAP	CAPACITY
CC	CENTER TO CENTER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CO	CLEANOUT
CONN	CONNECTION
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
D	DRAIN
DIA	DIAMETER
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DDU	DUAL DUCT UNIT
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
DSD	DUCT SMOKE DETECTOR SUPPLY
DSR	DUCT SMOKE DETECTOR RETURN
DX	DIRECT EXPANSION
E-#	EXHAUST AIR DEVICE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EFF	EFFICIENCY
ET	EXPANSION TANK
ECH	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EC	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
ESV	EMERGENCY SHUT-OFF VALVE
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXH	EXHAUST
FA	FRESH AIR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FH	FLOOR HYDRANT
FDR	FILTER DRIER
FIN	FINISH
FLR	FLOOR
FM	FACTORY MOUNTED
FPM	FEET PER MINUTE
FT	FEET
FURN	FURNISHED
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
FTU	FAN TERMINAL UNIT
GAL	GALLONS
GALV	GALVANIZED
GI	GREASE INTERCEPTOR
GC	GENERAL CONTRACTOR
GPM	GALLON PER MINUTE
GUH	GAS UNIT HEATER
GWH	GAS WATER HEATER
CW	COLD WATER
HB	HOSE BIBB
HD	HUB DRAIN
HR	HOUR
HP	HORSEPOWER
IE	INVERT ELEVATION
IN	INCHES
INST	INSTALLED
IRH	INFRARED HEATER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LRA	LOCKED ROTOR AMPS
LPG	LIQUID PROPANE GAS
LWCO	LOW WATER CUT-OFF
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU/HR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CURRENT AMPS
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MOP SERVICE BASIN
MV	MIXING VALVE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NO.	NUMBER
NF	NON-FUSED
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OED	OPEN END DUCT
OV	OUTLET VELOCITY
P	PUMP
PC	PLUMBING CONTRACTOR
POC	POINT OF CONNECTION
PIB	POWER INDUCTION BOX
PD	PRESSURE DROP
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
R-#	RETURN AIR DEVICE
RD	ROOF DRAIN
RF	RELIEF FAN
RPM	REVOLUTIONS PER MINUTE
RP	RECIRCULATING PUMP
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
S-#	SUPPLY AIR DEVICE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SF	SUPPLY FAN
SW	SWITCH
STL	STEEL
SG	SIGHT GLASS
SP	STATIC PRESSURE
SPC	SPRINKLER CONTRACTOR
SV	SOLENOID VALVE
TC	TEMPERATURE CONTROLLER
TCC	TEMPERATURE CONTROLS CONTRACTOR
TDV	TRIPLE DUTY VALVE
T	TRANSFER GRILLE
TF	TRANSFER FAN
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TXV	THERMAL EXPANSION VALVE
UH	UNIT HEATER (HYDRONIC)
UR	URINAL
V	VENT
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
WB	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP(FT. H20)
W.C.	WATER COLUMN
ZD	ZONE DAMPER

MECHANICAL GENERAL DEMOLITION NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION WORK.
2. KEYED NOTES ON PLANS WITH MATCH LINES ARE THE SAME ON BOTH SIDES OF MATCH LINES. KEYED NOTES MAY NOT BE USED ON BOTH SIDE OF THE MATCH LINE.
3. REMOVE DUCTS AND EQUIPMENT SHOWN CROSS HATCHED OR DASHED.
4. CONTRACTOR SHALL USE CAUTION WHEN REMOVING DUCTS TO AVOID DAMAGE TO ELECTRICAL WIRING THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO DUCTWORK.
5. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC., UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING SURFACES.
6. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
7. THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
8. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION. REFER TO MEP AND SPRINKLER DEMOLITION PLANS FOR MEP AND SPRINKLER DEMOLITION.
9. THE OWNER WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY ACMs (ASBESTOS CONTAINING MATERIALS, PCBs OR OTHER HAZARDOUS MATERIALS) PRESENTLY EXISTING WITHIN THE AREAS AFFECTED BY THE PROJECT SCOPE, THAT WOULD BE REQUIRED TO BE REMOVED FOR THE WORK. ABATEMENT WORK, IF REQUIRED, IS NOT PART OF THIS CONTRACT.
10. REMOVE AND REPLACE CEILING TILES AS NEEDED TO PERFORM THE WORK INDICATED ON THE PLANS. REPLACE ANY DAMAGED TILES WITH NEW TILES THAT MATCH THE EXISTING CEILING. NOTIFY OWNER OF ANY EXISTING CEILING TILES THAT ARE ALREADY DAMAGED PRIOR TO THE START OF WORK.

MECHANICAL GENERAL RENOVATION NOTES:

1. THESE GENERAL NOTES APPLY TO ALL WORK.
2. KEYED NOTES ON PLANS WITH MATCH LINES ARE THE SAME ON BOTH SIDES OF MATCH LINES. KEYED NOTES MAY NOT BE USED ON BOTH SIDE OF THE MATCH LINE.
3. DUCT SIZES SHOWN ARE SHEET METAL SIZE AND INCLUDE THE DUCT LINER WHERE LINER IS REQUIRED.
4. ALL SUPPLY, RETURN, EXHAUST, AND TRANSFER REGISTERS IN ROOMS WITHOUT CEILINGS SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING AIR DEVICES.
6. PIPING ON PLANS IS SHOWN FOR GENERAL ARRANGEMENT. SEE DETAILS FOR CONNECTIONS TO UNITS.
7. IF PIPE SIZES ON PLANS CONFLICT WITH SIZES SHOWN ON FLOW DIAGRAMS, SIZES ON FLOW DIAGRAMS SHALL TAKE PRECEDENCE.
8. TRANSITION FROM DUCT SIZES SHOWN TO EQUIPMENT CONNECTION SIZE AS REQUIRED.
9. MAINTAIN 10'-0" MINIMUM BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
10. ALL DUCT RUN OUTS TO AIR DEVICES SHALL HAVE A DAMPER WITH A LOCKING QUADRANT IN ADDITION TO THE DAMPER IN THE NECK OF THE AIR DEVICE.
11. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PREVENT THE INSTALLATION OF CONDUITS, PIPING, LIGHTING, OR OTHER OBSTRUCTIONS UNDER OR ADJACENT TO HVAC EQUIPMENT THAT OBSTRUCTS ACCESS TO COILS, MOTORS, VALVES, FILTERS, ETC., OR OTHER HVAC COMPONENTS NEEDING MAINTENANCE OR OPERATIONS ACCESS.
12. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 8'-0".
13. ALL EXPOSED DUCTS SHALL HAVE PAINT GRIP FINISH FOR PAINTING BY GC. COLOR PER ARCHITECT.
14. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE MOUNTED AT 4'-0" TO THE TOP OF THE JUNCTION BOX THAT THE DEVICE IS MOUNTED ON.
15. COORDINATE DUCTWORK WITH ALL MECHANICAL, SPRINKLER AND PLUMBING PIPING BEFORE COMMENCEMENT OF WORK.
16. MAINTAIN MINIMUM OF 4'-0" BETWEEN BRANCH TAKE OFFS.
17. LOCATIONS OF NEW EQUIPMENT, DUCTWORK, PIPING, AND ASSOCIATED ITEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ELEVATION OF ALL WORK. PROVIDE OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., REQUIRED FOR A COMPLETE SYSTEM.
18. NO CHANGES IN CONTRACT PRICE WILL BE ALLOWED FOR MINOR CHANGES IN LAYOUT OR LOCATION REQUIRED TO AVOID INTERFERENCES, OBSTRUCTIONS, ETC. CONTRACT PRICE CHANGES WILL BE CONSIDERED ONLY FOR CHANGES IN THE SCOPE OF THE PROJECT REQUIREMENTS. ALL SUCH SCOPE CHANGES AND PRICE REVISIONS MUST BE AUTHORIZED IN WRITING. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
19. THE WORK ON THIS PROJECT WILL BE PHASED. SEE THE SCHEDULE IN THE SPECIFICATIONS FOR SEQUENCE OF PHASES, HOURS OF CONSTRUCTION AND ADDITIONAL REQUIREMENTS.
20. ALL UTILITIES SERVING EXISTING AREAS SHALL REMAIN IN SERVICE AT ALL TIMES EXCEPT FOR SHORT PERIODS OF INTERRUPTION FOR TIE IN OF NEW SERVICES TO EXISTING. ALL INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND SHALL NOT BE SCHEDULED UNTIL NEW SERVICES ARE COMPLETE AND READY FOR FINAL CONNECTION.
21. AIR DEVICES SHALL BE SIZED TO MATCH THE CEILING GRID. FURNISH AIR DEVICES FOR EITHER REGULAR GRID CEILINGS OF FOR NARROW GRID CEILINGS OR FOR BOTH TYPES OF GRID; COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
22. PROVIDE SUPPLEMENTAL "TEES" FOR THE CEILING GRID WHERE DIFFUSERS ARE A DIFFERENT SIZE THAN THE CEILING TILES.
23. REMOVE AND REPLACE CEILING TILES AS NEEDED TO PERFORM THE WORK INDICATED ON THE PLANS. REPLACE ANY DAMAGED TILES WITH NEW TILES THAT MATCH THE EXISTING CEILING. NOTIFY OWNER OF ANY EXISTING CEILING TILES THAT ARE ALREADY DAMAGED PRIOR TO THE START OF WORK.
24. WHERE INSULATION CONTAINING HAZARDOUS MATERIALS HAS BEEN REMOVED FROM DUCTWORK, PIPING, OR EQUIPMENT, REPLACE IT WITH NEW INSULATION. SEE SPECIFICATIONS FOR TYPE AND THICKNESS.
25. PROVIDE AN ISOMETRIC DRAWING FOR ALL REFRIGERANT PIPING. SHOW PIPE SIZES AND LENGTHS. REFRIGERATION UNIT MANUFACTURER SHALL SIGN OFF ON THE PIPING CONFIGURATION AND SIZING.
26. GENERALLY PROVIDE DUCT INSULATION FOR SUPPLY, RETURN AND OUTSIDE AIR DUCTS ABOVE CEILINGS. SEE DETAILS ON PLANS AND DUCT INSULATION SCHEDULE AND ADDITIONAL REQUIREMENTS IN SPECS. SEE SPECS 230900 AND 230200 FOR A MORE DETAILED DESCRIPTION OF LINING AND INSULATION REQUIREMENTS.
27. ALL DUCTS SHALL BE 2" WG PRESSURE CLASS EXCEPT UPSTREAM OF VAV/FTUS SHALL BE 4"WG.

ANCHORAGE & SWAY BRACING - MECHANICAL SYSTEM COMPONENTS

OCCUPANCY CATEGORY (III) — SEISMIC DESIGN CATEGORY (C)

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION	SEPARATE PERMIT & PLANS	
AIR DEVICES	X	-	X	-	-	-	3
CU, RTU	X	-	X	-	-	-	-
DUCTWORK	X	-	X	-	-	-	4
PIPING - NATURAL GAS	-	X	-	X	-	X	-
FCU, DS, EF, EH, VAV	X	-	X	-	-	-	-
COMPONENTS SUSPENDED FROM HANGERS THAT ARE 12 INCHES OR MORE IN LENGTH FROM THE TOP OF THE DUCT/PIPE TO SUPPORTING STRUCTURE	X	-	X	-	-	-	-

1 EQUIPMENT WEIGHS LESS THAN 20 LBS.
2 EQUIPMENT WEIGHS LESS THAN 75 LBS.
3 ATTACH AIR DEVICES TO CEILING WITH 4 SCREWS.
4 CROSS SECTIONAL AREA OF DUCTWORK IS LESS THAN 6 S.F.
5 DUCTS ARE SUSPENDED FROM HANGERS 12" OR LESS IN LENGTH.

MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M0.1	MECHANICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
M0.2	MECHANICAL SCHEDULES
M1.1	MECHANICAL PLAN - OPERATIONS
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M1.3	MECHANICAL PLAN - MAINTENANCE AND COVERED STORAGE
M1.4	MECHANICAL PLAN - OFFICE
MD1.1	MECHANICAL DUCTWORK DEMOLITION PLAN - OPERATIONS

M+H ARCHITECTS

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MECHANICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

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ROOF TOP UNIT SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	LOCATION	SA (CFM)	OA (CFM)	ESP (IN WC)	SUPPLY FAN HP	COOLING				NATURAL GAS HEATING				ENERGY WHEEL SUPPLY				ENERGY WHEEL EXHAUST				ELECTRICAL							WEIGHT (LBS)	REMARKS
									TOTAL (MBH)	SENSIBLE (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	IN (MBH)	OUT (MBH)	EAT (°F)	LAT (°F)	WHEEL OA (CFM)	ESP (IN WC)	EAT DB/WB (°F)	LAT DB/WB (°F)	EA (CFM)	ECON. AIR (CFM)	EAT DB/WB (°F)	ESP (IN WC)	EXH. FAN HP	V/PH	COND. FAN FLA	SUPPLY FAN FLA	EXHAUST FAN FLA	COMP. RLA	MCA	MOCP	AIC RATING		
RTU	1	DAIKIN	DPSC17						192																480/3								
RTU	2	DAIKIN	DPSC05						53																480/3								
RTU	3	DAIKIN	DPSC20						261																480/3								
RTU	6	DAIKIN	DPSC06						72																480/3								

1 MODULATING NATURAL GAS HEAT.
2 ELECTRIC HEAT.
3
4 ECONOMIZER WITH BAROMETRIC RELIEF.
5 DUPLEX RECEPTACLE POWERED BY EC.

LOUVER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	CFM	LISTED SIZE (WxH)	FREE AREA (SQ FT)	FACE VELOCITY (FPM)	APD (IN WC)	FINISH	REMARKS
L	1	RUSKIN	ELF6375DX		48"x36"					1-2
L	2	RUSKIN	ELF6375DX		48"x36"					1-2
L	3	RUSKIN	ELF6375DX		48"x36"					1-2
L	4	RUSKIN	ELF6375DX		36"x36"					1-2
L	5	RUSKIN	ELF6375DX		24"x24"					1-2
L	6	RUSKIN	ELF6375DX		24"x24"					1-2
L	7	RUSKIN	ELF6375DX		12"x12"					1-2
L	8	RUSKIN	ELF6375DX		12"x12"					1-2
L	9	RUSKIN	ELF6375DX		12"x12"					1-2
L	10	RUSKIN	ELF6375DX		12"x12"					1-2
L	11	RUSKIN	ELF6375DX		12"x12"					1-2
L	12	RUSKIN	ELF6375DX		12"x12"					1-2
L	13	RUSKIN	ELF6375DX		12"x12"					1-2
L	14	RUSKIN	ELF6375DX		12"x12"					1-2
L	15	RUSKIN	ELF6375DX		12"x12"					1-2
L	16	RUSKIN	ELF6375DX		12"x12"					1-2
L	17	RUSKIN	ELF6375DX		12"x12"					1-2
L	18	RUSKIN	ELF6375DX		12"x12"					1-2
L	19	RUSKIN	ELF6375DX		12"x12"					1-2
L	20	RUSKIN	ELF6375DX		12"x12"					1-2
L	21	RUSKIN	ELF6375DX		12"x12"					1-2
L	22	RUSKIN	ELF6375DX		12"x12"					1-2
L	23	RUSKIN	XP500		48"x72"					ALL
L	24	RUSKIN	XP500		48"x72"					ALL
L	25	RUSKIN	XP500		48"x72"					ALL
L	26	RUSKIN	XP500		48"x72"					ALL
L	27	RUSKIN	XP500		48"x72"					ALL
L	28	RUSKIN	XP500		48"x72"					ALL
L	29	RUSKIN	XP500		48"x72"					ALL
L	30	RUSKIN	XP500		48"x72"					ALL
L	31	RUSKIN	XP500		48"x72"					ALL

1 SILL EXTENSION.
2 BIRDSCREEN.
3 FEMA 361 LOUVER

EXHAUST FAN SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	LOCATION	CFM	ESP (IN WC)	BHP	MOTOR HP	DRIVE TYPE	RPM	SOUND (dBA)	SOUND (SONE)	ELECTRICAL					WEIGHT	REMARKS
													V/PH	FLA	MCA	MOCP	AIC RATING		
EF	1	COOK	24XW	OPS V-STORAGE	6300														
EF	2	COOK	24XW	OPS V-STORAGE	6300														
EF	3	COOK	24XW	OPS WAREHOUSE	5800														
EF	A	COOK	GC-148	OFFICE TLT 102	75														
EF	B	COOK	GN-542	OFFICE TLT 122	300														
EF	C	COOK	GN-542	OFFICE TLT 123	300														
EF	D	COOK	GC-148	OFFICE RR 153	75														
EF	E	COOK	GN-542	OFFICE TLT 155	300														
EF	F	COOK	GN-542	OFFICE TLT 156	300														
EF	G	COOK	GC-148	OFFICE RR 119	75														
EF	H	COOK	20XW	MAINT. BAYS	2750														
EF	I	COOK	14XW	MAINT. WASH BAY	1150														
EF	J	COOK	14XW	MAINT. PUMP HOUSE	1150														
EF	K	COOK	GC-148	MAINT. TOILET	75														
EF	L	COOK	GC-148	OFFICE CUSTODIAN 124	100														
EF	M	COOK	GN-542	MAINT. STORAGE	300														
EF	N	COOK	GN-542	MAINT. FLUID ROOM	300														

1 WITH WIRE GUARD ON MOTOR SIDE.
2 WITH WALL COLLAR.
3 WITH GRAVITY SHUTTER.
4 WITH BACKDRAFT DAMPER.
5 INTERLOCK FAN WITH MOTORIZED DAMPER AT OUTDOOR AIR LOUVER.
6 WITH 45° WEATHER HOOD. COLOR OF HOOD TO BE SELECTED BY ARCHITECT.
7 WITH PERMATECTOR COATING OR EQUIVALENT.
8 PROVIDE WITH DISCONNECT SWITCH.
9 PROVIDE WITH NEMA 4X DISCONNECT SWITCH.
10 RATED FOR WET ENVIRONMENT.
11 WITH ALUMINUM BLADES.
12 CONTROLLED WITH WALL SWITCH AND CO/NO2 SENSOR.
13 PROVIDE REMOTE CONTROL PANEL/STARTER.
14 FURNISHED WITH CARMON EXHAUST SYSTEM.
15 WITH WIRING PIGTAIL.
16 PROVIDE EXHAUST ADAPTERS FOR HIGH EXHAUST STACKS, AND DUAL EXHAUST WITH CLAMPING NOZZLES.

VAV TERMINAL UNIT SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	SIZE (IN)	MAX CFM	MIN CFM	HEATING					APD (IN WC)	ELECTRICAL			REMARKS
							CFM	EAT (°F)	LAT (°F)	HEAT (MBH)	HEAT (KW)		V/PH	MCA	MOCP	
VAV	1-1	TITUS	DESV	10									480/3			
VAV	1-2	TITUS	DESV	08									277/1			
VAV	1-3	TITUS	DESV	08									277/1			
VAV	1-4	TITUS	DESV	08									277/1			
VAV	1-5	TITUS	DESV	08									277/1			
VAV	1-6	TITUS	DESV	08									277/1			
VAV	1-7	TITUS	DESV	10									480/3			
VAV	1-8	TITUS	DESV	10									480/3			
VAV	1-9	TITUS	DESV	08									277/1			
VAV	1-10	TITUS	DESV	10									480/3			
VAV	2-1	TITUS	DESV	10									480/3			
VAV	2-2	TITUS	DESV	08									277/1			
VAV	2-3	TITUS	DESV	08									277/1			
VAV	3-1	TITUS	DESV	08									277/1			
VAV	3-2	TITUS	DESV	08									277/1			
VAV	3-3	TITUS	DESV	08									277/1			
VAV	3-4	TITUS	DESV	08									277/1			
VAV	3-5	TITUS	DESV	08									277/1			
VAV	3-6	TITUS	DESV	08									277/1			
VAV	3-7	TITUS	DESV	08									277/1			
VAV	3-8	TITUS	DESV	14									480/3			
VAV	3-9	TITUS	DESV	14									480/3			
VAV	6-1	TITUS	DESV	08	790								277/1			ALL
VAV	6-2	TITUS	DESV	06	170								277/1			ALL
VAV	6-3	TITUS	DESV	06	115								277/1			ALL
VAV	6-4	TITUS	DESV	12	1130								480/3			ALL
VAV	6-5	TITUS	DESV	06	90								277/1			ALL
VAV	6-6	TITUS	DESV	06	105								277/1			ALL

1 PROVIDE DDC CONTROLS.
2 PROVIDE SCR ELECTRIC HEATING COIL.
3 PROVIDE WITH DISCONNECT SWITCH.

CONDENSING UNIT SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	SERVES	COOLING			HEATING			ELECTRICAL				REMARKS
					TOTAL (MBH)	AMBIENT (°F)	REFRIGERANT	TOTAL (MBH)	AMBIENT (°F)		V/PH	MCA	MOCP	AIC RATING	
CU	1	DAIKIN	RXP12	FCU-1			R32								
CU	2	DAIKIN	RXP24	FCU-2			R32								
CU	3	DAIKIN	RXP12	FCU-3			R32								
CU	A	DAIKIN	RKF24	DS-G			R32								

1 UNIT SHALL BE ANCHORED TO CONRETE PAD.
2 CONDENSING UNIT MANUFACTURER SHALL VERIFY EXACT LENGTHS AND SIZE OF REFRIGERANT PIPING.
3 E.C. TO PROVIDE DISCONNECT SWITCH.
4 METAL HAIL GUARDS
5 HEAT RECOVERY UNIT.
6 MOUNT UNIT ON CURB OR EQUIPMENT RAILS, MIN 14".

DUCTLESS SPLIT SYSTEM SCHEDULE

TYPE	MARK	MANUFACTURER	INDOOR MODEL	OUTDOOR MODEL	SERVES	CFM	COOLING			IEER	ELECTRICAL					REMARKS
							TOTAL (MBH)	AMBIENT (°F)	REFRIGERANT		V/PH	FLA	MCA	MOCP	AIC RATING	
DS	A	DAIKIN	FTKF24	CU-G	OFFICE SERVER 149		22.4		R32							

1 PROVIDE WITH CONDENSATE PUMP. PUMP SHALL BE POWERED BY INDOOR UNIT.
2 CONDENSATE OVERFLOW SWITCH SHALL SHUT UNIT OFF.
3 SIZE REFRIGERANT PIPING ACCORDING TO MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
4 UNIT SHALL BE MOUNTED AT 8FT AFF.
5 LOW AMBIENT TEMPERATURE DOWN TO 0 DEG F.
6 E.C. TO PROVIDE DISCONNECT SWITCH.
7 INDOOR UNIT SHALL BE POWERED BY OUTDOOR UNIT.
8 UNIT SHALL UTILIZE A REMOTE THERMOSTAT.

FAN COIL UNIT SCHEDULE (REFRIGERANT)

TYPE	MARK	MANUFACTURER	MODEL	AREA SERVED	ASSOCIATED OUTDOOR UNIT	SA (CFM)	OA (CFM)	ESP (IN WC)	SUPPLY FAN HP	COOLING		HEATING	ELECTRICAL	WEIGHT (LBS)	REMARKS
										TOTAL (MBH)	SENSIBLE (MBH)	MBH	V/PH		
FCU	1	DAIKIN	FDMA12	WAREHOUSE W101 & W102	CU-1					10.8	8.3	12.5	208/1		ALL
FCU	2	DAIKIN	FDMA24	WAREHOUSE W104 & W105	CU-2					21.8	15.7	24	208/1		ALL
FCU	3	DAIKIN	FDMA12	MAINT.M103 & M104	CU-3					10.8	8.3	12.5	208/1		ALL

1 FAN COIL UNIT MANUFACTURER SHALL VERIFY EXACT LENGTHS AND SIZE OF REFRIGERANT PIPING.
2 CONDENSATE OVERFLOW SENSOR AND SHUT-OFF. PROVIDE CONDENSATE PUMP.
3 SLIM CEILING MOUNTED DUCTED UNIT.
4 FAN COIL COOLING CAPACTIY SIZED AT 75 DB AND 50% RH.
5 MINIMUM COOLING SEER2 = 16
6 1" THROWAWAY FILTER.
7 E.C. TO PROVIDE DISCONNECT SWITCH.

GAS UNIT HEATER SCHEDULE

TYPE MARK	MARK	MANUFACTURER	MODEL	LOCATION	CFM	HEATING CAPACITY		ELECTRICAL			REMARKS
						IN	OUT	V/PH	FLA	MOCP	
GUH	1	REZNOR	UBXC	WAREHOUSE	1500	125	100	115/1	13	30	ALL
GUH	2	REZNOR	UBXC	WAREHOUSE	1500	125	100	115/1	13	30	ALL
GUH	3	REZNOR	UBXC	WAREHOUSE	1500	125	100	115/1	13	30	ALL

1 CONCENTRIC VENT KIT
2 2 STAGE BURNER CONTROL.
3 E.C. TO PROVIDE DISCONNECT SWITCH.

AIR DEVICE SCHEDULE

TYPE	MANUFACTURER	MODEL	MATL	NECK SIZE	FRAME TYPE	PANEL SIZE	NC	REMARKS
E1	TITUS	PAR						
R1	TITUS	PAR						
R2								
S1								
S2								
T1	TITUS	PAR						

1 COLOR WHITE.
2 PROVIDE SURFACE MOUNTING FOR GRILLES IN DRYWALL CEILINGS.
3 PROVIDE BALANCE DAMPER IN NECK OF AIR DEVICE.
4 RETURN GRILLE TO PLENUM.
5 WALL MOUNTED GRILLE.
6 ON EXPOSED DUCT.
7 HINGED GRILLE WITH 2" MERV 8 FILTER.

AIR DEVICE RUN OUT SCHEDULE

DUCT CFM	DUCT SIZE
0-100	Ø 6"
101-200	Ø 8"
201-350	Ø 10"
351-600	Ø 12"
601-900	Ø 14"
901-1300	Ø 16"
1301-1750	Ø 18"

1 AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE.
2 RECTANGULAR DUCT SIZES OF EQUIVALENT FREE AREA MAY BE SUBSITUTED FOR ROUND DUCT.
3 RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.
4 CRITERIA: NC30 OR ΔP ≤ 0.1

ELECTRIC HEATER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	LOCATION	HEATING (KW)	ELECTRICAL					REMARKS
						V/PH	FLA	MCA	MOCP	AIC RATING	
EH	1	QMARK	MUH104		10	480/3					
EH	2	QMARK	MUH104		10	480/3					
EH	3	QMARK	QWD10432		10	480/3					
EH	4	QMARK	QWD10432		10	480/3					
EH	5	QMARK	MUH104		10	480/3					
EH	6	QMARK	MUH104		10	480/3					
EH	7	QMARK	MUH104		10	480/3					
EH	8	QMARK	MUH104		10	480/3					
EH	9	QMARK	MUH0371		3	277/1					
EH	10	QMARK	MUH0371		3	277/1					
EH	11	QMARK	CWH3307F		3	277/1					
EH	12	QMARK	CWH3307F		3	277/1					
EH	13	QMARK	EFF3007		3	277/1					
EH	14	QMARK	EFF3007		3	277/1					
EH	15	QMARK	EFF3007		3	277/1					

1 RECESSED MOUNTING FRAME.
2 INTEGRAL THERMOSTAT.
3 PROVIDE WITH DISCONNECT SWITCH.

MOTORIZED DAMPER SCHEDULE

TYPE	MARK	BLADE TYPE	SIZE	# OF SECTIONS	SERVICE	LOCATION	# OF ACTUATORS	FAILURE (NO/NC)	VOLTS	CONTROL TYPE	REMARKS
MD	1										
MD	2										
MD	3										
MD	4										
MD	5										
MD	6										
MD	7										
MD	8										
MD	9										
MD	10										
MD	11										
MD	12										
MD	13										
MD	14										

1 WITH END SWITCH.
2 TWO POSITION.

DE-STRATIFICATION FAN SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	LOCATION	DIAMETER (FT)	RPM	DRIVE TYPE	ELECTRICAL			REMARKS
								V/PH	MCA	MOCP	
DSF	1	BIG ASS FANS	POWERFOIL D	WAREHOUSE	12	145	DIRECT W VFD	277/1	10	15	ALL
DSF	2	BIG ASS FANS	POWERFOIL D	WAREHOUSE	12	145	DIRECT W VFD	277/1	10	15	ALL
DSF	3	BIG ASS FANS	POWERFOIL D	MAINT	12	145	DIRECT W VFD	277/1	10	15	ALL

1 PROVIDE REMOTE WALL MOUNTED CONTROLLER WITH SPEED CONTROL.
2 LOCATE FAN BETWEEN JOISTS AND PROVIDE JOIST SPANNING MOUNTING KIT.
3 INTERLOCK WITH FIRE ALARM SYSTEM FOR EMERGENCY SHUTDOWN.

CONDENSER (AIR COOLED) SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	COOLING		ELECTRICAL					REMARKS
				TOT. MBH	SEN. MBH	V/PH	FLA	MCA	MOCP	AIC RATING	
ACC	1	LIEBERT	MCL055	101	89.2	208/3	5.7	7.1	15		ALL
ACC	2	LIEBERT	MCL055	101	89.2	208/3	5.7	7.1	15		ALL

1 UNIT SHALL OPERATE AT RATED CAPACITY BETWEEN -30°F AND 95°F.
2 ON 18" STAND.
3 E.C. TO PROVIDE DISCONNECT SWITCH.

COMPUTER ROOM AIR CONDITIONER SCHEDULE

TYPE	MARK	MANUFACTURER	MODEL	CFM	COOLING		ELECTRICAL					REMARKS
					TOT. MBH	SEN. MBH	V/PH	FLA	MCA	MOCP	AIC RATING	
CRAC	1	LIEBERT	PX029	4300	101	89.2	208/3	42.9	50.8	80		ALL
CRAC	2	LIEBERT	PX029	4300	101	89.2	208/3	42.9	50.8	80		ALL

1 NON-LOCKING DISCONNECT.
2 NO HUMIDIFIER. NO REHEAT.
3 PROVIDE SMOKE SENSOR, LEAK SENSOR, RETURN AIR TEMPERATURE SENSORS, AND RETURN AIR HUMIDITY SENSORS.
4 COOLING CAPACITY SIZED AT 75 DEG F DRY BULB AND 45% RH.
5 CONDENSATE PUMP.
6 MERV 8 FIILTERS.
7 FLOOR MOUNTED UNIT.UPFLOW WITH REAR DUCTED RETURN AND FLOOR STAND
8 AIR-COOLED, DIGITAL SCROLL, ECM FAN
9 PROVIDE WITH BACNET CARD. COORDINATE WITH CONTRACTOR FOR EXACT CARD MODEL.
10 PROVIDE WITH DISCONNECT SWITCH.

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MECHANICAL SCHEDULES

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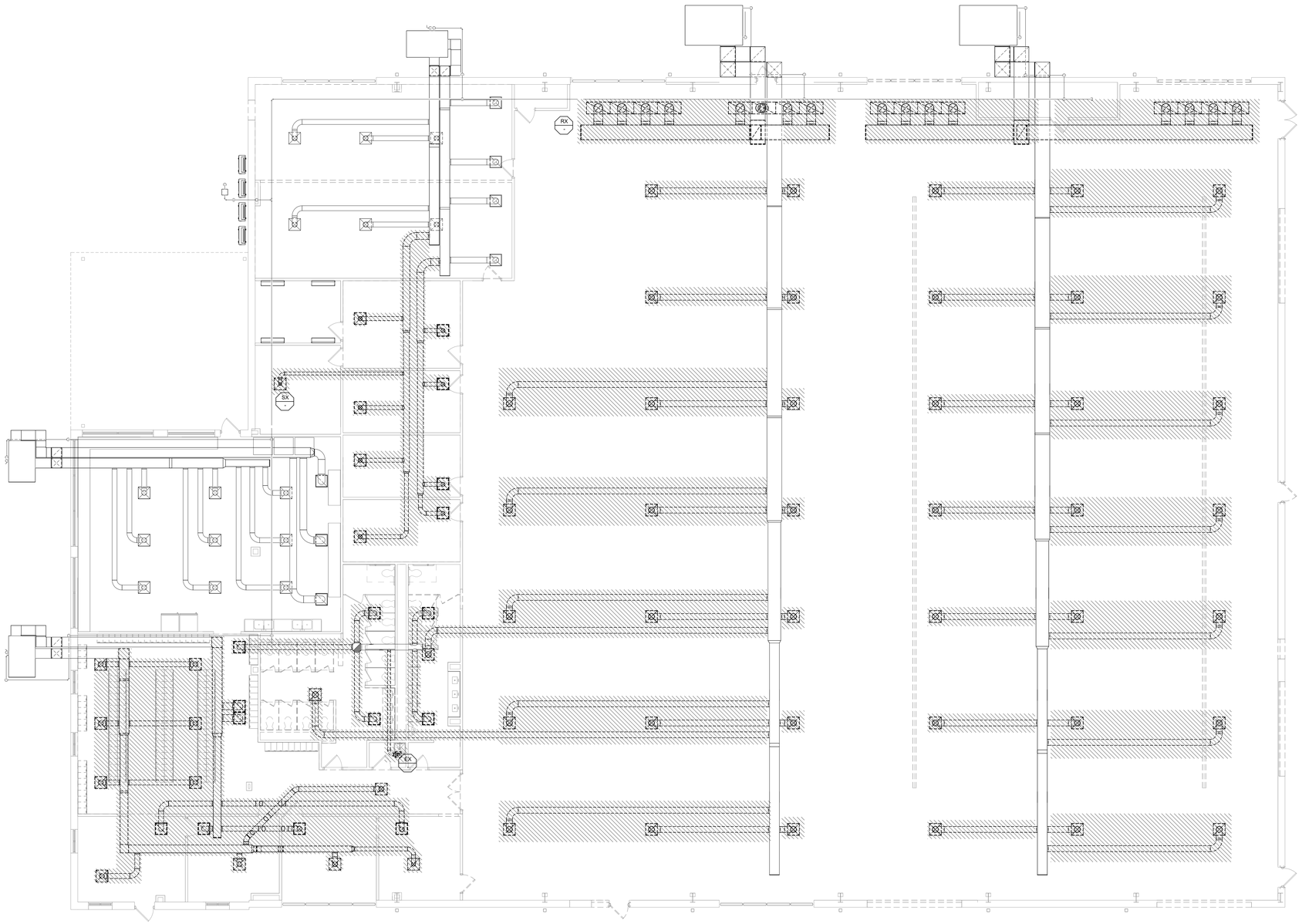

FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
NORTH

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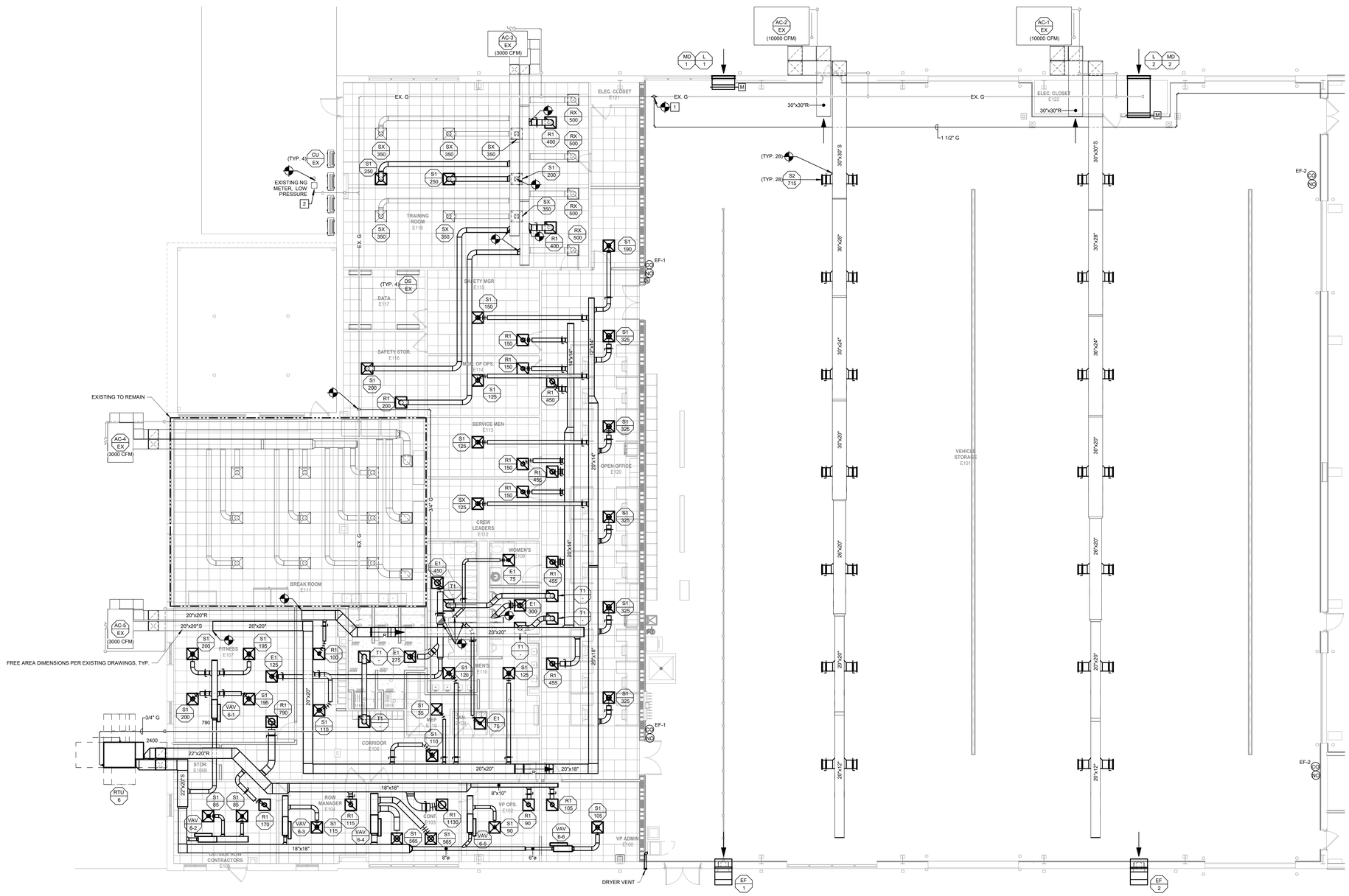
GENERAL NOTES:

1. REFER TO SHEET M0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. EACH VAV BOX SHALL HAVE AN SCR REHEAT COIL AND LOCAL THERMOSTAT. PROVIDE ALL REQUIRED INTEGRATED CONTROLS FROM THE FACTORY FOR A RTU VAV SYSTEM.

KEYED NOTES:

1 CONNECT 1-1/2" LOW PRESSURE GAS PIPING INTO EXISTING PIPING WHERE EXISTING PIPE SIZE IS 2" OR GREATER.

2 COORDINATE WITH GAS UTILITY TO UPSIZE GAS METER TO ACCOMMODATE 440 ADDITIONAL CFH OF GAS.



FIRST FLOOR MECHANICAL DUCTWORK PLAN - OPERATIONS
SCALE: 1/8" = 1'-0"
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MECHANICAL PLAN - OPERATIONS

M1.1

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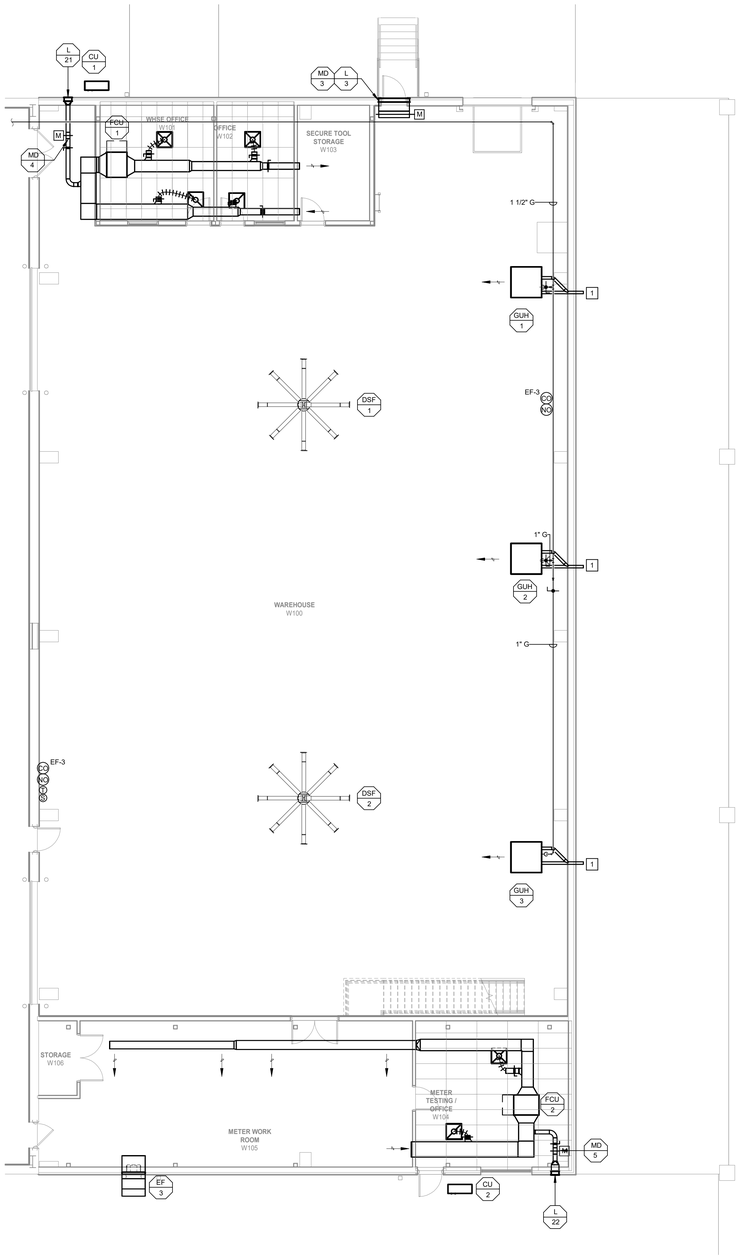

FIRST FLOOR MECHANICAL DUCTWORK PLAN - WAREHOUSE
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES:

1. REFER TO SHEET M0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. EACH FAN COIL UNIT SHALL HAVE A REFRIGERANT LINESET FROM THE OUTDOOR UNIT, A CONDENSATE DRAIN PIPE TO THE NEAREST FLOOR DRAIN, AND A 7-DAY PROGRAMMABLE THERMOSTAT.
3. EACH UNIT HEATER SHALL HAVE A WALL MOUNTED THERMOSTAT FURNISHED WITH THE UNIT.

KEYED NOTES:

1 4" CONCENTRIC INTAKE/FLUE PIPING FOR UNIT HEATER.

M+H ARCHITECTS

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TAYLOR COUNTY RECC

PROJECT ADDRESS
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MECHANICAL PLAN - WAREHOUSE

M1.2

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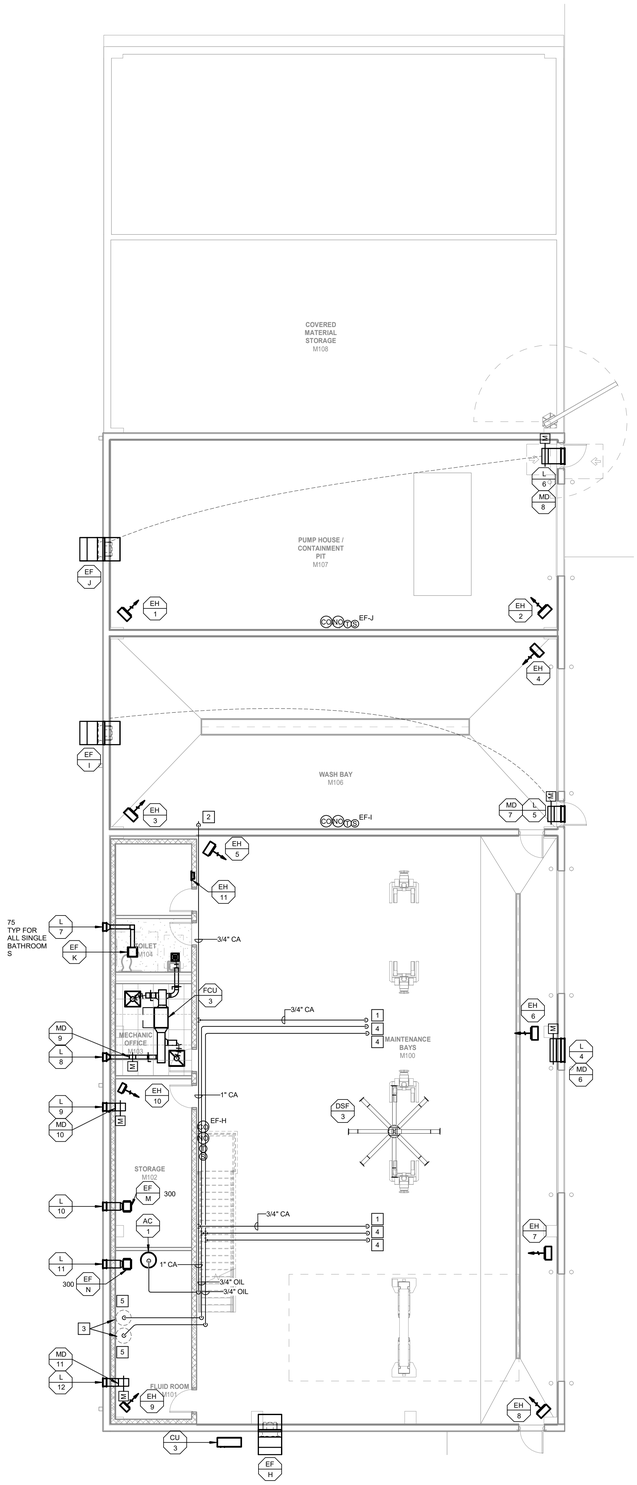

FIRST FLOOR MECHANICAL DUCTWORK PLAN - MAINTENANCE
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES:

1. REFER TO SHEET M0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. EACH FAN COIL UNIT SHALL HAVE A REFRIGERANT LINESET FROM THE OUTDOOR UNIT, A CONDENSATE DRAIN PIPE TO THE NEAREST FLOOR DRAIN, AND A 7-DAY PROGRAMMABLE THERMOSTAT.
3. EACH UNIT HEATER SHALL HAVE A WALL MOUNTED THERMOSTAT FURNISHED WITH THE UNIT.

KEYED NOTES:

1. 3/4" COMPRESSED AIR HOSE REEL MOUNTED ON CEILING. PROVIDE 75' HOSE ON RETRACTABLE REEL WITH ADJUSTABLE HOSE STOPS.
2. 3/4" COMPRESSED AIR DROP; INCLUDE BALL VALVE AT 7'-0" AND QUICK CONNECT FITTING AT 30". CONFIRM WITH OWNER FOR EXACT FITTING TYPE AND LOCATION.
3. MOTOR OIL DRUMS, BY OTHERS.
4. 3/4" OIL PIPING DOWN TO HOSE REEL MOUNTED ON WALL. HOSE TO BE 75' LENGTH; PROVIDE WITH ADJUSTABLE HOSE STOP.
5. PROVIDE PNEUMATIC OIL PUMPS FOR EACH OIL DRUM. PROVIDE 1/4" COMPRESSED AIR CONNECTION TO PUMPS.

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MECHANICAL PLAN - MAINTENANCE AND COVERED STORAGE

M1.3

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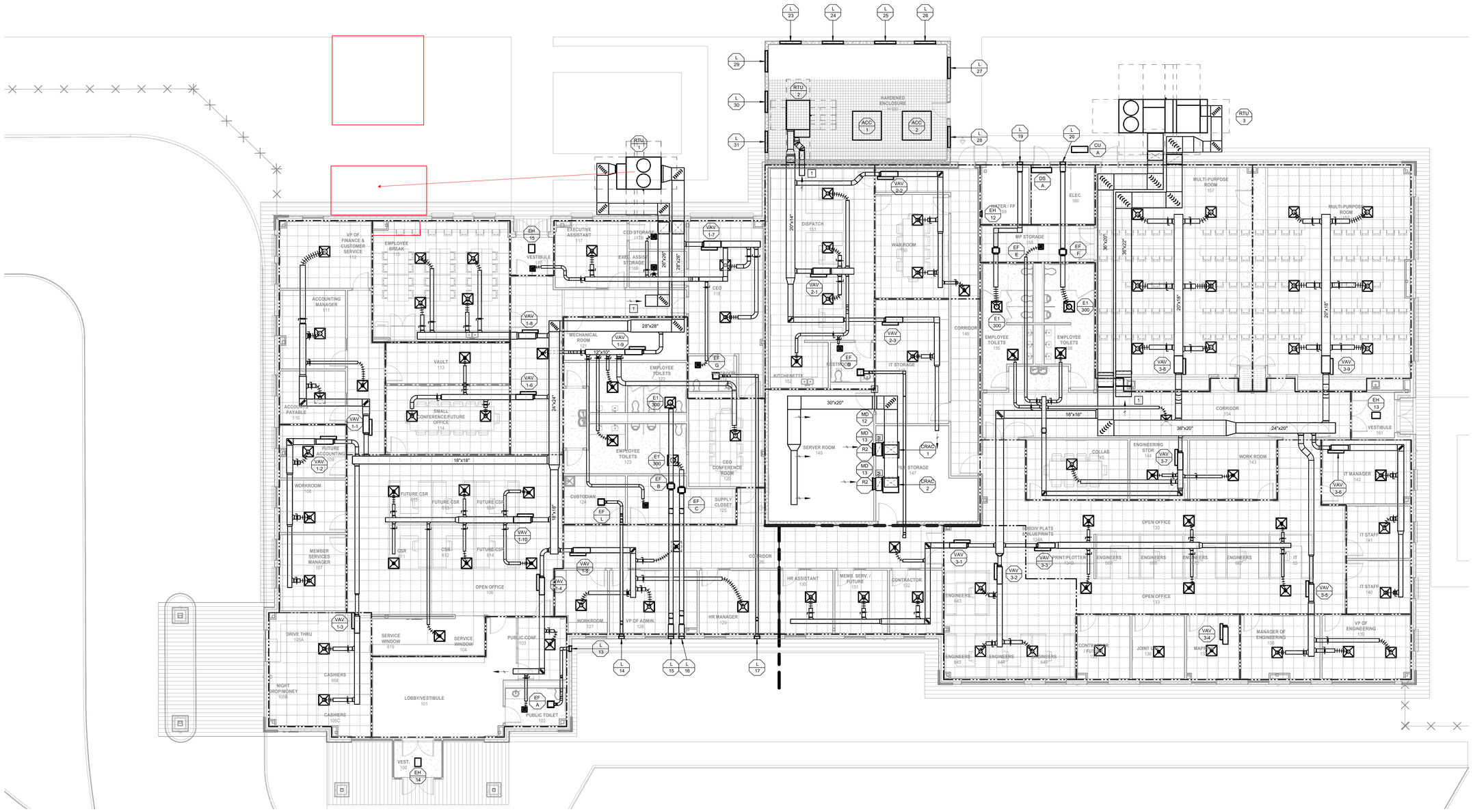
GENERAL NOTES:

1. REFER TO SHEET M0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. EACH DUCTLESS SPLIT AND CRAC UNIT SHALL HAVE A REFRIGERANT LINESET FROM THE OUTDOOR UNIT, A CONDENSATE DRAIN PIPE TO THE NEAREST FLOOR DRAIN, AND A 7-DAY PROGRAMMABLE THERMOSTAT.
3. ALL ROOMS EXCEPT RESTROOMS, JANITORS ROOMS, OR MEP ROOMS SHALL HAVE A 24"X24" RETURN GRILLES, OPEN TO THE PLENUM. INCLUDE SOUND BOOT AT EACH GRILLE.
4. EACH VAV BOX SHALL HAVE AN SCR REHEAT COIL AND LOCAL THERMOSTAT. PROVIDE ALL REQUIRED INTEGRATED CONTROLS FROM THE FACTORY FOR A RTU VAV SYSTEM.

KEYED NOTES:

1 RETURN DUCT OPEN TO PLENUM.



FIRST FLOOR MECHANICAL DUCTWORK PLAN - OFFICE
SCALE: 1/8" = 1'-0"
NORTH

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MECHANICAL PLAN - OFFICE

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