

March 27, 2020

GS# 210-068 NEW ADMINISTRATION BUILDING PHASE II

Mississippi Delta Community College

Moorhead, Mississippi

Addendum No. 2

This Addendum forms part of the Contract Documents for the above referenced project. All other requirements of the original Contract Documents shall remain in effect except as specifically modified in this Addendum. Bidder is to acknowledge receipt of this Addendum with their bid proposal. Failure to do so may subject the Bidder to disqualification. This Addendum is issued to all known Plan Holders.

1. Clarifications:

- a. The Bureau of Buildings has issued the comments below regarding the bid process, attending the bid opening, etc for Bidders' use, amending some of the details of the bid as discussed in the Pre-Bid Meeting Minutes:
 - i. On Bid opening date, bids will be received and opened in Conference Room 145 on the 1st floor of the Woolfolk State Office Building instead of the 14th Floor Conference Room. This will allow bidders to avoid use of public elevators. As this space is also significantly larger than our standard bid room, it will also allow bidders to maintain appropriate social distancing.
 - ii. Bidder will be able to attend the opening, or as an option, via conference call-in phone number. Phone number: (888)822-7517 Access Code: 4443353
 - iii. Certified Bid Tabulations will be posted on the Department of Finance and Administration's Bureau of Building, Grounds and Real Property Management Website as soon as available following the bid opening.
 - iv. Mailed bids and those delivered prior to bid date will be received at 501 North West Street, Suite 1401B (Woolfolk Building) Jackson, MS 39201 as usual.
 - v. In accordance with MISSISSIPPI Code, bids may also be submitted electronically via the State of Mississippi Procurement Portal as previously identified in "advertisement for bids".
- b. Base Bid and Alternates: if discrepancies occur between Architectural and other disciplines drawings for scope of Bid Alternates, Architectural shall govern. See A100, Overall Site Plan with Alternates for limits of scope for Base Bid and Alternates.
- c. All traffic marking shall be painted per the specifications. This Project WILL NOT use thermoplastic traffic markings and all references to thermoplastic traffic markings shall be deleted from the plans and specifications.
- d. Section 02000: Clearance air monitoring using PCM analysis is not required for removal of window units, caulking and glazing from the exterior of the building as long as the interior barrier stays in place during the removal process.
- e. Section 06402:
 - i. Requirements for AWI/QCP certification, inspection & certificates for the interior finish carpentry are waived.
 - ii. Requirements for no urea formaldehyde in medium density fiberboard binders are waived.
 - iii. Trophy case hardware, ballet barres and glassless mirrors are not part of this Project.

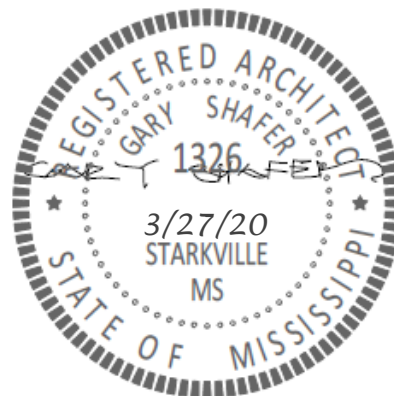
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OFFICE OF ARCHITECTURE

- f. Section 07550 Modified Bitumen Sheet Roofing was missing from the Project Manual. See attached Section 07550.
- g. Section 08410: storefront hardware can be provided by storefront manufacturer or door hardware provider where duplicated in specifications. All storefront and hardware is specified as 'Basis of Design'; all performance equals shall adhere to Division 1 requirements.
- h. Voice and Data locations are rough-in only, with cabling to be provided by others.
- i. Marker Boards and Projection Screen: equipment scheduled is 'Basis of Design' specification as listed. See Sheets A110 and A120 for quantities shown on plans of scheduled equipment. For projector screen, see Electrical plans for rough-in information.

2. Drawings:

- a. Sheet A223
 - i. 7/A223 – REVISE 'FIN WD CABINETS W/ ADJUSTABLE SHELF' TO 'PLAM CABINETS W/ ADJUSTABLE SHELF'.
- b. Sheet A610 Finish Schedule – where discrepancies exist between Finish Schedule and Floor Finish Plan for flooring types, the Floor Finish Plan shall govern. See A140 Finish Floor Plan.
- c. Sheet E001: Revised minimum conduit size to ½"
- d. Sheet E002: Added pole base detail.
- e. Sheet E100: Added Mezzanine plan and revised switching in mechanical access to manual from occupancy sensor.
- f. Sheet E300: Added duct smoke detectors for IHP-2-1. Clarified via note requirements for voice alarm, testing, and CCTV/Access Control scope.
- g. Sheet ES100: Added sign lighting across the street, a sign lighting specification, and altered incoming utility route to include pad mounted transformer. Clarified conduit entrance for communications.

Contents: This addendum consists of **13 (8 ½" x 11") sheets** and **5 (24" x 36") sheets**.



End of Addendum No. 2 for: GS# 210-068 NEW ADMINISTRATION BUILDING PHASE II

SECTION 07550

MODIFIED BITUMINOUS SHEET ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Sheathing over deck surface.
- B. Insulation, roofing system and base flashings.
- C. Roof accessories.
- D. Roof drains and/or gutters.
- E. Deck preparation, replacement and/or repair.
- F. Warranty Requirements.
- G. Submittal Requirements.
- H. Wind Uplift Requirements

1.02 MANUFACTURER'S APPROVAL OF PRODUCTS AND INSTALLATION (SOME FURNISHED IN OTHER SECTIONS)

- A. Contractor shall verify prior to bid and provide a letter (during the submittal process) from the roofing manufacturer (along with the roofing submittal indicating): manufacturer's approval of all flashings, membrane(s), trim, perimeter metal, "gravel guards", curbs, vents, anchors, anchor pattern and roof accessories to be provided according to the Contract Documents and existing conditions. Manufacturer's approval will confirm the submitted roof system's compliance with manufacturer's roof system recommendations, the required warranty and FM I-90 conformance for the given conditions. All manufacturer's approvals are the responsibility of the Contractor.

1.03 RELATED SECTIONS

- A. Wood Blocking and Curbing
- B. Sheet Metal Flashing and Trim
- C. Re-roofing Preparation
- D. Roof Deck Insulation
- E. Gutters and Downspouts
- F. All applicable Roof Accessories
- G. Division 1 sections relating to product options, substitutions, submittals, shop drawings, etc.

1.04 REFERENCES

- A. ANSI/ASTM D312 – Asphalt Used in Roofing.
- B. ANSI/ASTM D2178 – Asphalt Impregnated Glass (Felt) Mat used in roofing and waterproofing.
- C. National Roofing Contractors Association (NCRA) – Roofing and Waterproofing Manual.
- D. Underwriters Laboratories (UL) – Fire Hazard Classifications.

- E. Factory Mutual (FM) – Wind Uplift Requirements.

1.05 SUBMITTALS

- A. Submit under all provisions of Division 1. It is the Contractor's responsibility to familiarize himself and comply with the requirements for: Shop Drawings, Product Data, Samples, Substitutions and Product Options and other similar sections and/or requirements.
- B. All submittals shall be specific to this project and indicate all actual conditions. Submittals shall not be general installation details for generic conditions that do not accurately reflect the conditions of this project.
- C. Shop Drawings: Indicate setting and anchorage plan for flat/tapered insulation if applicable. Indicate the anchorage requirements for insulation on the main field of the roof, roof edge conditions and corner conditions for the required uplift rating and the given deck type. Verify fastener type and penetration required for the conditions of this project.
- D. Manufacturer's Installation Instructions: Indicate special precautions required for the membrane(s), all flashings, insulation and anchorage required to meet the specified warranty, FM I-90 and all other requirements.
- E. Manufacturer's Certificate: The manufacturer of the roof system is to certify that the system (the submitted assembly for this particular project) meets or exceed specified requirements of design and warranty as required for this project by the manufacturer. Also, certify that the "system" (project specific submitted assembly) meets the uplift requirements of Factory Mutual Engineering Corporation (FM) I-90 classification. All components of roof systems must be approved by manufacturer, as a system, in writing. The Contractor is responsible for making all changes necessary to meet these requirements.
- F. Submit manufacturers' literature for all system components for approval. All components are to be submitted and approved as a "system" that meets uplift and warranty requirements.
- G. Provide a copy of the required warranty, for this system, as approved by the manufacturer.

1.06 QUALIFICATIONS

- A. Manufacturer: Company specializing in the design and manufacturing the products specified in this section with ten year documented experience. This company must be able to provide the required warranty and meet all other design requirements (FM uplift requirements, UL fire resistance, ASTM testing requirements, NRCA recommendations, etc.)
- B. Applicator: Company specializing in performing the work of this section with five years documented experience as an approved, licensed, or authorized applicator by the roof system manufacturer for the required level of warranty, installation and all other stated requirements.
- C. Work of this section to conform to NCRA Roofing and Waterproofing Manual, Contract Documents, Drawings and manufacturer's instructions.

1.07 REGULATORY REQUIREMENTS

- A. Underwriters Laboratories, Inc. (UL): Conform to Class A fire hazard classification and U.L. Assembly P225.

- B. Factory Mutual Engineering Corporation (FM): Roof assembly classification, of Class 1 construction, wind uplift requirement of I-90 and in accordance with FM construction bulletin #1-28.

1.08 PRE-INSTALLATION CONFERENCE

- A. Convene one week prior to commencing work of this Section.
- B. Review installation procedures (as dictated by construction documents and approved shop drawings) and coordination required with related or existing construction.
- C. Roofing contractor must accept deck substrate and drainage conditions as acceptable prior to beginning roof work. It is the contractor's responsibility to make all necessary corrections to the deck before beginning work as recommended for the required warranty and to meet FM I-90 uplift requirements.

1.09 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of the Quality Control, Material and Equipment, Product Handling and similar Specification Sections.
- B. Deliver products in manufacturer's original containers, dry, undamaged, seals and labels intact.
- C. Store products in weather protected environment, clear of ground and moisture.
- D. Stand roll materials on end.
- H. No loose items/materials shall be left unsecured on the roof at the end of the work day.

1.10 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply roofing membrane during inclement weather ambient temperatures below 32 degrees F or above 100 degrees F (follow manufacturer's recommendations for additional or more stringent recommendations).
- B. Do not apply roofing membrane to damp or frozen deck surface.
- C. Do not expose materials that vulnerable to weather, water or sun damage in quantities greater than can be weatherproofed during same day.

1.11 COORDINATION

- A. Coordinate the work with installing associated metal flashings and all other roof accessories as the work of this Section proceeds.
- B. Coordinate with other trades for phases of work to avoid damage to roof surface and insulation. Also, coordinate with other trades to allow for the proper installation of all work.
- C. Coordinate with mechanical and electrical requirements for roof penetrations and acceptability of flashings, heights of curbs, acceptability of penetrations, etc. It is the Contractor's responsibility to raise all curbs (and associated equipment) as recommended by roof manufacturer to achieve the recommended flashing condition. The Contractor is also responsible for the service connections to all electrical/mechanical conditions located on the roof.

1.12 WARRANTY

- A. Provide two-year contractors' unlimited warranty under provisions of all appropriate Division 1 Specification Sections to be supplied by roofing contractor to cover entire roof assembly including flashings and other accessories (labor and materials) for water-tightness.
- B. Cover damage to building resulting from failure to prevent penetration of water through any component of the roof system. Warranty must cover labor (workmanship) and materials. The completed roof shall be inspected by the manufacturer prior to issuing this warranty.
- C. Project Warranty (Manufacturer): Provide written warranty, signed by Manufacturer of primary roofing materials and his authorized installer, agreeing to replace/repair defective materials, installation and workmanship. Warranty must be a no dollar limit, watertightness warranty on entire roof system (all components, accessories, etc.). Warranty must meet all additional requirements set forth in all appropriate Division 1 Specification Sections (Warranties and Bonds, Contract Closeout, etc.)

Warranty period is 20 years after date of final acceptance of project, no dollar limit.

Manufacturer shall review project prior to bidding. Any condition which may negatively affect the warranty must be identified by the contractor prior to bidding so that nonconforming condition can be corrected or otherwise accounted for. No exceptions to the required warranty will be allowed. Otherwise, the Contractor will be responsible for all corrections.

PART 2 PRODUCTS

2.01 MANUFACTURERS OF MATERIALS AS PART OF A TOTAL ROOF SYSTEM

- A. Acceptable manufacturers of roof systems that must meet the requirements as defined in these Contract Documents (specifications and drawings):

THIS APPLICATION WILL BE FOR A MANUFACTURER'S TWO PLY SYSTEM CONSISTING OF BASE SHEET(S) AND CAP SHEET AS DEFINED HEREIN AND MEETING THE WARRANTY AND PERFORMANCE REQUIREMENTS AS DEFINED.

HOT MOPPED

1. **Soprema**, www.soprema.us - Elastophene sanded (base), Sopralene 180 FR GR (cap), Sopralast 50 TV ALU Sanded flashing.
2. **Firestone**, www.firestonebpc.com – SBS Base (base), SBS FR (cap), Metal Flash AL flashing.
3. **Johns Manville**, www.jm.com – DynaBase (base), DynaLastic 180 FR (cap), DynaClad flashing

TORCH APPLIED

- 1 **Soprema**, www.soprema.us – Elastophene Flam (base), Sopralene Flam 180 FR GR (cap), Sopralast 50 TV Aluminum flashing
- 2 **Firestone**, www.firestonebpc.com – SBS Glass Torch Base, SBS FR Torch (cap), Metal Flash AL flashing
- 3 **Johns Manville**, www.jm.com – DynaWeld (base), DynaWeld Cap 180 FR, DynaClad flashing

These membranes were chosen as equals based on ASTM designation, thickness and weight. If the manufacturer requires a superior/premium membrane to meet any of the requirements listed in this specification, then it is the Contractor's responsibility to provide this (and any other accessories/materials) in order to meet these requirements.

- B. It is the Contractor's responsibility to supply and install any and all additional components of the manufacturer's roof system for this particular application (as required for the warranty and performance requirements) whether specifically defined or not. This includes items such as: slip sheets, vapor barriers, ice and water shield in certain locations, rosin paper, specific flashing membranes, sheathing, special anchors/adhesives, etc. It is the Contractor's responsibility to verify such items (along with the primary roofing components) and allow for these materials and installation in their bid.
1. This project includes installation of roofing system over existing cementitious Tectum deck and over new metal deck.
 2. Provide pull out testing to verify capacity of the fasteners in the existing Tectum cementitious deck areas per roof system manufacturer recommendations to meet the warranty and performance requirements.

2.02 MEMBRANE MATERIALS

- A. Membrane: Asphalt and polymer modifiers of styrene-butadiene-styrene (SBS) type reinforced with non-woven fiber glass and/or polyester, as specified; smooth surfaced and mineral granule; hot mop applied unless otherwise noted. Cap sheet must be fire resistant "FR" with a minimum Class A rating.
- B. Membrane (when noted): Aluminum foil clad, high performance, modified bitumen cap sheet. This sheet is to consist of a fiberglass scrim/fiberglass mat composite impregnated and coated with a high quality styrene-butadiene-styrene (SBS) modified bitumen and surfaced with a protective aluminum coating. Product must be equal to Soprema Sopralast 50 TV Alu.
- C. Fluid Applied Flashing Membrane- One component asphalt extended polyurethane resin used in conjunction with 100% polyester reinforcement. System requires base layer resin, embedment of polyester reinforcement into wet base layer resin, top layer resin completely covering and encapsulating reinforcement. After drying finish layer of resin is applied and granules broadcast into wet finish layer. (coordinate with Architect to verify if granules are required for this particular application) Fluid applied Flashing Membrane must be equal to Soprema's Alsan Flashing System.

Fluid Applied Flashing Membranes may be used when specifically called for by the Architect or when approved by the Architect. In some cases Fluid Applied flashings may be necessary due to existing conditions on a roof that physically do not work well for traditional flashing membranes or where the vertical height of flashing is restricted by existing conditions. Consult with the Architect's office for approval for use in any conditions in question.

2.03 BITUMINOUS MATERIALS

- A. Asphalt bitumen: ANSI/ASTM D312, Type 4. Asphalt shall be low odor (or low fume) type with an additive that aids in eliminating the odor rather than just masking it. This product shall not alter any other physical characteristics of the asphalt and shall not reduce the flash point.
- B. Asphalt Primer: ANSI/ASTM D41.

2.04 INSULATION

- A. Roof Insulation System (Typical Roof): Rigid insulation with manufacturers' standard facing laminated to both sides. R-values (or thicknesses) as designated at mean

temperature indicated, after conditioning. All attachment, anchorage and accessories required to meet FM 1-90 wind uplift requirements.

- B. Roof System: New construction – **NOT USED FOR THIS PROJECT.**
 - Base Layer: 5/8" gypsum board, Type "X" – 4'x12'.
 - Second layer: 1" polyisocyanurate foam with facer sheets.
 - Third layer: 1/2" Perlite recovery board.
 - Surface Burning Characteristics: Max. flame spread of 25.
 - Thermal resistivity: 16.7 at 75 degrees F for 2" thick insulation
- C. Roof System: Re-roof over existing construction: See drawings and details for complete requirements.

2.05 BASE FLASHINGS

- A. Base Flashing(s): Flexible sheet flashings, SBS modified bitumen, type as compatible with membrane sheeting and for this application's specific conditions. Number of layers as required by system (manufacturer's requirement for wind uplift and warranty).

2.06 SURFACING

- A. Mineral Surfacing (unless noted otherwise): Fine mineral granules, shop applied, color – **WHITE.**
- B. Dress all bleed-outs and seams with matching mineral surfacing.

2.07 CANTS

- A. Cant: Asphalt impregnated wood fiberboard, pre-formed to 45 degree angle. Consult manufacturer's recommendations for additional requirements or materials for cant strips as necessary for warranty and FM wind uplift requirements.

2.08 ACCESSORIES

- A. Mechanical Fasteners: Appropriate for purpose intended and approved by Factory Mutual and system manufacturer; length required for thickness of material as necessary for FM 1-90. It is the Contractor's responsibility to verify and coordinate all anchorage with exposed interior decks, finishes, electrical, mechanical equipment or ducts, etc. to ensure that no items are penetrated or otherwise damaged.
- B. Prefabricated Control of Expansion Joint Flashing: Sheet butyl reinforced with closed cell urethane foam backing seamed into metal flashing flanges, including sheet butyl counter-flashing each side. Provide pre-formed terminations and accessories as required to meet warranty requirements.
- C. Masonry wall flashing of Fibrated Aluminum Roof Coating as indicated on the drawings. Properly clean surface of all loose debris and mastics that would prevent proper adhesion. All preparation of existing surfaces are to be in compliance with the manufacturer's recommendations. Apply in areas indicated in construction documents and in thicknesses recommended by manufacturer with proper mesh reinforcement.
- D. Wall Flashing and other vertical joints: Manufacturer recommended foil faced flashing membrane as required for warranty (unless a particular material is specifically noted). See details for application.

- E. Cover Boards are specified per NRCA and manufacturer's recommendations. When cover boards are mechanically attached, hot asphalt or insulation adhesive shall be used to attach subsequent layers of insulation and cover boards.
1. For Hot Mopped Applications: Soprema – ¼" Sopraboard; Firestone – ½" Dens Deck Prime adhered with insulation adhesive; Johns Manville – ½" Dens Deck Prime adhered with insulation adhesive.
 2. For Torch Applications: Soprema – ¼" Sopraboard applied with insulation adhesive; Firestone – ½" Dens Deck Prime adhered with insulation adhesive; Johns Manville – ½" Dens Deck Prime adhered with insulation adhesive.
 3. All installation and anchorage to be as recommended by the manufacturer for the given deck type and other conditions. All anchorage must also comply to wind uplift requirements.
- In some cases these materials may also be required as a cover board/sheathing on vertical surfaces for the proper attachment of the modified bitumen roofing/flashing. In these cases a mechanical attachment may be required (depending on the surface material). All attachment is to be as recommended by NRCA and the manufacturer for the given condition and must comply with the required uplift requirements. See the details and drawing notes for additional information.
- F. Adhesive for insulation and/or cover board in cold applied or torch applied applications: Equal to Insta Stik commercial roofing adhesive. Adhesive to be a single component polyurethane adhesive. Must be compatible with insulation and/or cover boards. All application as recommended by the manufacturer for the given deck and material conditions.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work and that the deck is supported and secured. Correct all deficiencies before proceeding with work.
- B. When re-roofing over existing construction, it is the Contractor's responsibility to inspect and become thoroughly familiar with existing conditions. It is the Contractor's responsibility to verify that the existing roof deck and all associated conditions meet the roofing manufacturer's recommendations. Correct any non-complying conditions to the satisfaction of the roof system manufacturer for the required warranty and other performance requirements.
- C. Verify that the installation of all materials (membrane, flashings, or any other accessories/components) will be installed in such a manner that any existing flashing conditions, masonry weeps, drains, etc. will not be covered or compromised. For example; do not cover existing masonry weeps or restrict (make smaller) roof drains or scuppers). It is the Contractor's responsibility to alter any details so that they will not negatively affect any flashing, moisture or drainage condition. All such details must be coordinated with the roof manufacturer so that the required warranty will not be affected.
- D. Verify deck is clean and smooth, free of depressions, waves, or projections, properly sloped to drains, valleys, or eaves and correct all conditions as recommended by the roof system manufacturer and required by the contract documents.
- E. Verify deck surfaces are dry and free of snow or ice. Verify flutes of metal deck are clean and dry. Confirm dry deck by moisture meter with 12 percent moisture maximum.

- F. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, and cant strips are in place. Penetrations, which are not high enough to maintain an 8" projection from finished roof are to be extended. Correct all nonconforming conditions.
- G. It is the Contractor's responsibility to verify that the roofing bitumen kettle arrives on the job site in a clean, operable and complete condition. No old bitumen materials are to be brought to the job site in the kettle. All temperature controls and accessories shall be operable and properly calibrated. The kettle shall have an operable thermometer to ensure that no asphalt is to be heated within 10 degrees F of its flash point. Kettles are not allowed on the roof. Operable and inspected fire extinguishers must be readily available at all times at the kettle location.
- H. Safety and protection of property is the Contractor's responsibility. All workers shall be required to perform all work in compliance with industry standards to protect themselves and all construction. All workers are to be provided and wear proper clothing and protection. No flammable liquids are to be stored on the roof.

3.02 PREPARATION-DECK

- A. Core information (when provided) is available for the convenience of the Contractor and to aid the Professional in the design of the new roof. Core information (and existing roof/insulation thicknesses) are believed to be accurate; but, may not be correct in all cases. Additionally, any original drawing information (when made available to the Professional) is also shown on the drawings/details. However, the Contractor is responsible for verifying any and all conditions that will affect his work or pricing. The roof will be made available for the Contractor to core and otherwise inspect as he feels is necessary. If the Contractor chooses to not visit the site and/or verify any conditions, this does not relieve the Contractor of his responsibility to properly prepare the roof (and remove/dispose of materials) as necessary and install the new roofing system as described.
- B. On surfaces where a non-typical or non-standard roofing material or coating exists, this material/coating must be completely removed prior to any installation that requires adhesion to this surface. If any remnants remain, the contractor is solely responsible for obtaining written permission from the roofing material manufacturer that will be supplying the warranty. This written permission must state that this existing condition is acceptable to the manufacturer and will not alter the required warranty. The manufacturer must also verify in writing that the remnants of the material are completely compatible with the new materials that are being installed.
- C. On nailable decks loose lay base sheet and mechanically fasten to deck. In some re-roof conditions this base sheet may have to be installed over 9 mil min. rosin paper to prevent bitumen materials from bleeding through the roof deck, see drawings. Embed into flood coat mopping of hot bitumen the first (and second, if applicable) layer of insulation in accordance with insulation manufacturer's instructions. If applicable, lay second layer of insulation with joints staggered from first layer.
- D. Lay insulation boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking, adjacent insulation boards and around any penetrations through roof. No voids shall exist in insulation that will cause "bridging" or voids in the roof membrane.
- E. On metal decks, place insulation perpendicular to deck flutes with edges over flute surface for bearing support. On existing decks (re-roof projects), place insulation perpendicular to decking or per manufacturer's recommendations for existing substrate conditions. Place fasteners as required by manufacturer of insulation, roof, and as recommended by FM for an I-90 rating.

- F. Apply no more insulation than can be sealed with membrane in same day.

3.03 MEMBRANE APPLICATION

- A. Lay one ply base sheet at a time, coated side down. Lap sides and ends in accordance with membrane manufacturer's instructions. Apply all following membranes in a similar manner, following all manufactures recommendations for the system.
- B. Equivalent Temperature of Bitumen at Point of Application: Within 25 degrees F of bitumen rating labeled on bitumen container.
- C. Apply membrane; seal seams and ends permanently waterproof. Apply the asphalt at the recommended rate to ensure that all membranes are properly adhered
- D. Apply membrane smooth, free from air pockets, wrinkles, tears, or fishmouths.
- E. Extend membrane up cant strips and minimum of 6 inches onto vertical surfaces or per manufacturer's recommendations, if greater. Never extend roof materials up a masonry wall in such a manner that will cover masonry weeps or allow weeps to drain under the roof surface.
- F. Install waterproof cut-off to membrane at end of day's operation. Remove cut-off before resuming roofing.
- G. Mop and seal membrane around roof penetrations.
- H. No loose items or materials are to be left unsecured on the roof at the end of the work day.
- I. Take all precautions to prevent the ignition of combustible materials during all roofing activities (in particular, torching activities). Install materials using the techniques recommended by the NRCA Roofing Torch Applicator Program and the Asphalt Roofing Manufacturers Association. Application must comply with NFPA 241, OSHA 29 CFR: 1910, 1910.12, 1926.16 & 1926. Fully operational and inspected fire extinguishers (type and size as recommended) must be readily available at the point of torching activities.

ADDITIONAL REQUIREMENTS FOR TORCH APPLICATION

- J. Only NRCA/MRCA CERTA certified roofing applicators are allowed to operate any torching equipment. It is the Contractor's responsibility to verify that all such applicators maintain and are currently carrying a valid Certified Roofing Torch Applicator (CERTA) card. All personnel on the roof during torch applications must be properly trained to use a fire extinguisher. Provide a fire watch for a minimum amount of time after torch operations as necessary to ensure that no potential ignition conditions exist at the end of each shift and during breaks. Coordinate access to the underside of the roof as necessary to inspect for ignition sources/conditions. Fire safety is the Contractor's responsibility. Do not torch in areas of poor and/or no visibility where voids and or penetrations may exist which could allow a torch flame to ignite combustible materials hidden from view or within the underside of the roof deck or building interior. Use cold applied materials in these areas whenever necessary and per manufacturer's printed instructions.
- K. Torches and other open flame equipment must be specifically designated for use in the application of modified bitumen materials and approved by the modified bitumen sheet manufacture for use with their product. Open flame equipment must not be ignited (burning) when left unattended. Provide and maintain an operable fire extinguisher next to each and every piece of open flame equipment on the roof. These listed fire safety requirements are intended to be the minimum expected for this project. The Contractor is

responsible for any and all additional requirements necessary for fire safety for the specific conditions that exist in this project. The Contractor is responsible for acquiring any permits, approvals and/or inspections that are required by any local authority having jurisdiction. Fire safety is the Contractor's responsibility.

- L. Ensure substrate membrane surfaces are warmed, either naturally or by torch during the installation. Apply heat evenly to the underside of the roll membrane being installed and exposed side lap area of previously installed sheet. Provide for slight, uniform flow of bitumen in front of roll and full width of roll as the material is being rolled out or set into place. Apply uniform and positive pressure to ensure membrane is fully adhered and all laps are sealed. Prior to forming lap over granulated surfaces, embed granules of the receiving sheet by heating and troweling-in the granules to form a uniform black compound surface. Roll all lap areas immediately after forming lap. Avoid overheating the membrane or burning through to the membrane reinforcement. Inspect and insure that all lap areas are fully sealed.

3.04 FLASHINGS AND ACCESSORIES

All edge metals must be tested and certified in compliance with ANSI/SPRI ES-1 and IBC 2006. Contractor shall provide certification and testing of all edge metal conditions to the Architect as part of the submittals. All "special" shapes (radiused, decorative, etc.) shall be pre fabricated.

- A. Apply surfaced membrane base flashings to seal membrane to all vertical elements. Perform no work in such a manner that will cover masonry weeps and allow weeps to drain. Perform all work in such a manner that will allow mechanical, electrical, ventilation, moisture barriers, etc. to function properly and meet the manufacturer's recommendation for minimum flashing height. Coordinate all work with other trades and existing conditions. Any variation must be approved by Architect and manufacturer prior to application.
- B. Secure at 4 inches min. and as required for required wind uplift rating.
- C. Install all roof expansion joints in accordance with manufacturer's instructions and as detailed.
- D. Coordinate installation of related flashings with other roof system components, existing construction, other trades, etc. Properly tie-in to other roof systems and types.
- E. Seal flashings and flanges of items penetrating membrane.

3.05 CLEANING

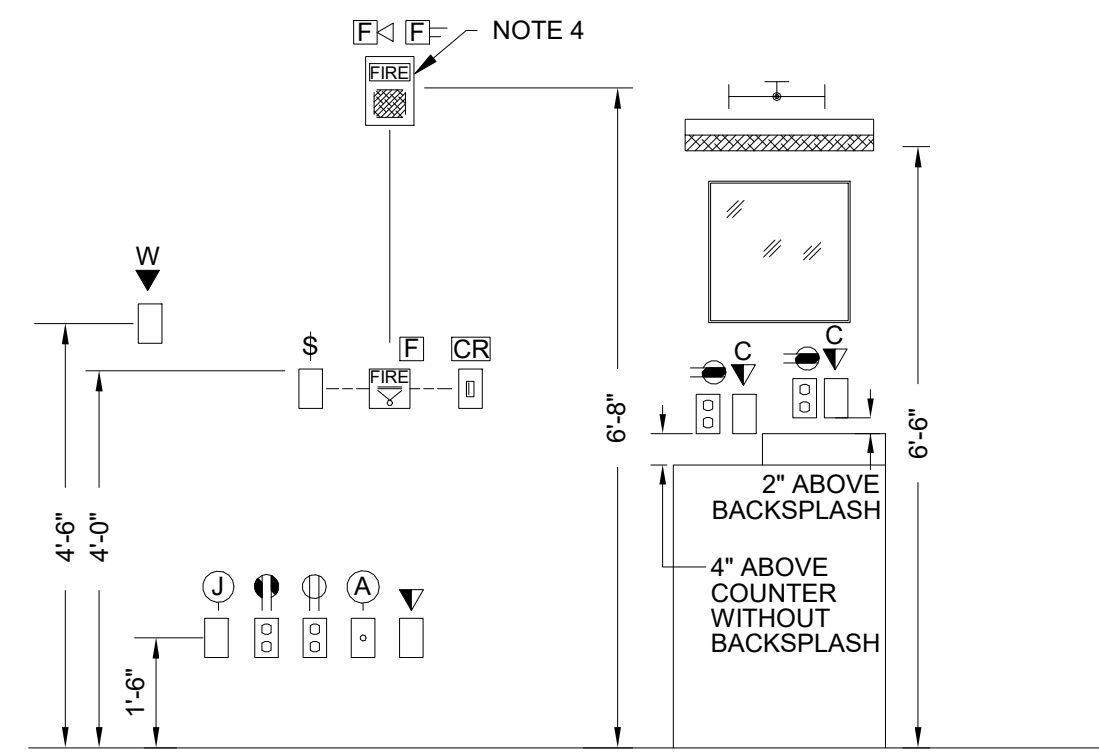
- A. Remove bituminous markings from finished surfaces. Clean all splatter, spills, etc. from all surfaces and adjacent materials/construction.
- B. In areas where finished surfaces are soiled by work of this Section, consult manufacturer of surfaces for cleaning advice and conform to their instructions.
- C. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.06 PROTECTION

- A. Protect building surfaces against damage from roofing work.
- B. Where traffic must continue over finished roof membrane, protect surfaces.
- C. Install traffic pads to and around all roof-mounted equipment from access point unless shown otherwise.

END OF SECTION 07550

STANDARD MOUNTING HEIGHTS



DRAWING CONVENTIONS

- NEW WORK
- EXISTING TO REMAIN
- ^{XR} EXISTING TO REMOVE

NOTES:

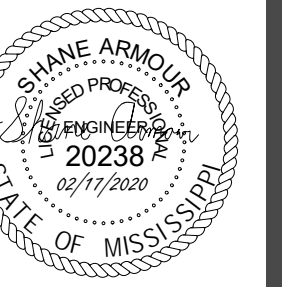
1. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET, UNLESS OTHERWISE NOTED.
2. LOCATIONS OF OUTLETS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL TAKE PRECEDENCE OVER THESE MOUNTING HEIGHTS. FIELD LOCATE OUTLETS WITH ARCHITECT DURING ROUGH-IN.
3. INSTALL OUTLETS THAT ARE IN CLOSE PROXIMITY ON THE SAME CENTERLINE. OUTLETS THAT ARE WITHIN 2'-0" HORIZONTALLY AND WITHIN 1'-0" VERTICALLY SHALL BE INSTALLED ON THE SAME HORIZONTAL CENTERLINE LOCATED HALF WAY BETWEEN THE HEIGHTS SHOWN. OUTLETS THAT ARE MORE THAN 1'-0" APART VERTICALLY SHALL BE INSTALLED ON THE SAME VERTICAL CENTERLINE.
4. VERIFY MOUNTING HEIGHT WITH LOCAL AUTHORITY.

ELECTRICAL NOTES

1. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH-IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL COST.
2. CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
4. ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.
5. ALL PANELBOARDS ARE 3Ø 4W UNLESS OTHERWISE NOTED.
6. ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT, 1/2" CONDUIT MINIMUM.
7. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
8. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
9. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.
10. ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
11. ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES.
12. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.
13. FINAL EQUIPMENT CONNECTIONS - THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR & MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY OTHERS. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZE, OVERCURRENT PROTECTION, PHASE, VOLTAGE, MOTOR ROTATION, ETC., WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.
14. FURNISH & INSTALL FIRE ALARM SYSTEM WHICH CONFORMS TO ALL NATIONAL, STATE, & LOCAL CODES. PROVIDE ADDITIONAL DEVICES AS REQUIRED. PROVIDE TO ARCHITECT A COMPLETE SET OF MANUFACTURER'S SYSTEM INSTALLATION PLANS INCLUDING RISER DIAGRAM, CONDUIT & WIRING, INTERCONNECTION DIAGRAMS, DEVICE LOCATIONS AND ALL REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. PROVIDE CONDUIT & WIRING AS DIRECTED BY SYSTEM SUPPLIER. FIRE ALARM CONTRACTOR TO HOLD A CURRENT LICENSE TO CONDUCT BUSINESS ISSUED BY THE STATE OF ALABAMA FIRE MARSHAL'S OFFICE.
15. CONTRACTOR SHALL PROVIDE ARC-FLASH WARNING LABELS COMPLYING WITH NEC ARTICLE 110.16 ON NEW ELECTRICAL EQUIPMENT OR EXISTING EQUIPMENT THAT IS MODIFIED.
16. NEW PANELBOARDS SHALL BE IDENTIFIED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
17. FOR 120 OR 208V CIRCUITS, CONTRACTOR SHALL INCREASE WIRE SIZE FROM THAT SHOWN ONE SIZE A.W.G. FOR EVERY 100' HOMERUN LENGTH, AND ONE SIZE EVERY 200' FOR 277V OR 480V CIRCUITS.
18. CONTRACTOR SHALL LABEL ELECTRICAL SERVICE EQUIPMENT WITH AVAILABLE FAULT CURRENT IN ACCORDANCE WITH NEC 110.24.
19. CONTRACTOR SHALL LABEL ELECTRICAL PANELBOARDS WITH EQUIPMENT WHERE FEEDER ORIGINATES IN ACCORDANCE WITH NEC 408.4(B).

ABBREVIATIONS

A	AMPERES	CFCI	CONTRACTOR FURNISHED
AA	AMBIENT AIR COOLED		CONTRACTOR INSTALLED
AIC	AMPERES INTERRUPTING CAPACITY	CFOI	CONTRACTOR FURNISHED
AF	ABOVE FINISHED FLOOR		OWNER INSTALLED
AL	ALUMINUM		
ATS	AUTOMATIC TRANSFER SWITCH	OFOI	OWNER FURNISHED
AWG	AMERICAN WIRE GAUGE		OWNER INSTALLED
C	CONDUIT RACEWAY	OFCI	OWNER FURNISHED
CU	COPPER		CONTRACTOR INSTALLED
CKTS	CIRCUITS		
CTTS	CLOSED TRANSITION TRANSFER SWITCH	OC	ON CENTER
DIA	DIAMETER	P	POLES
EC	ELECTRICAL CONTRACTOR	PF	POWER FACTOR
EM	EMERGENCY	PH	PHASES
EP	EXPLOSION PROOF	PVC	POLYVINYL CHLORIDE RACEWAY
FA	FORCED AIR COOLED	RGS	RIGID GALVANIZED STEEL
FMC	FLEXIBLE METAL CONDUIT	UN	UNLESS OTHERWISE NOTED
G	GROUND	V	VOLTS
H	MOUNTING HEIGHT TO CENTERLINE	W	WIRES
HID	HIGH INTENSITY DISCHARGE	WP	WEATHERPROOF, NEMA 3R
HP	HORSE POWER	EX	EXISTING TO REMAIN
IG	ISOLATED GROUND	XR	EXISTING, REMOVE
KVA	KILOVOLT-AMPERES	XRR	EXISTING, REMOVE & RELOCATE
KW	KILOWATT	XRL	EXISTING, RELOCATED
LT	LIQUID TIGHT FLEXIBLE METAL CONDUIT	XR	EXISTING, REMOVE DEVICE AND INSTALL BLANK COVER.
KCMIL	THOUSAND CIRCULAR MILS	XRP	EXISTING, REMOVE AND REPLACE W/ NEW
MV	MEDIUM VOLTAGE		
N	NEUTRAL		
NEC	NATIONAL ELECTRICAL CODE		
NIC	NOT IN CONTRACT		
NL	NIGHT LIGHT		



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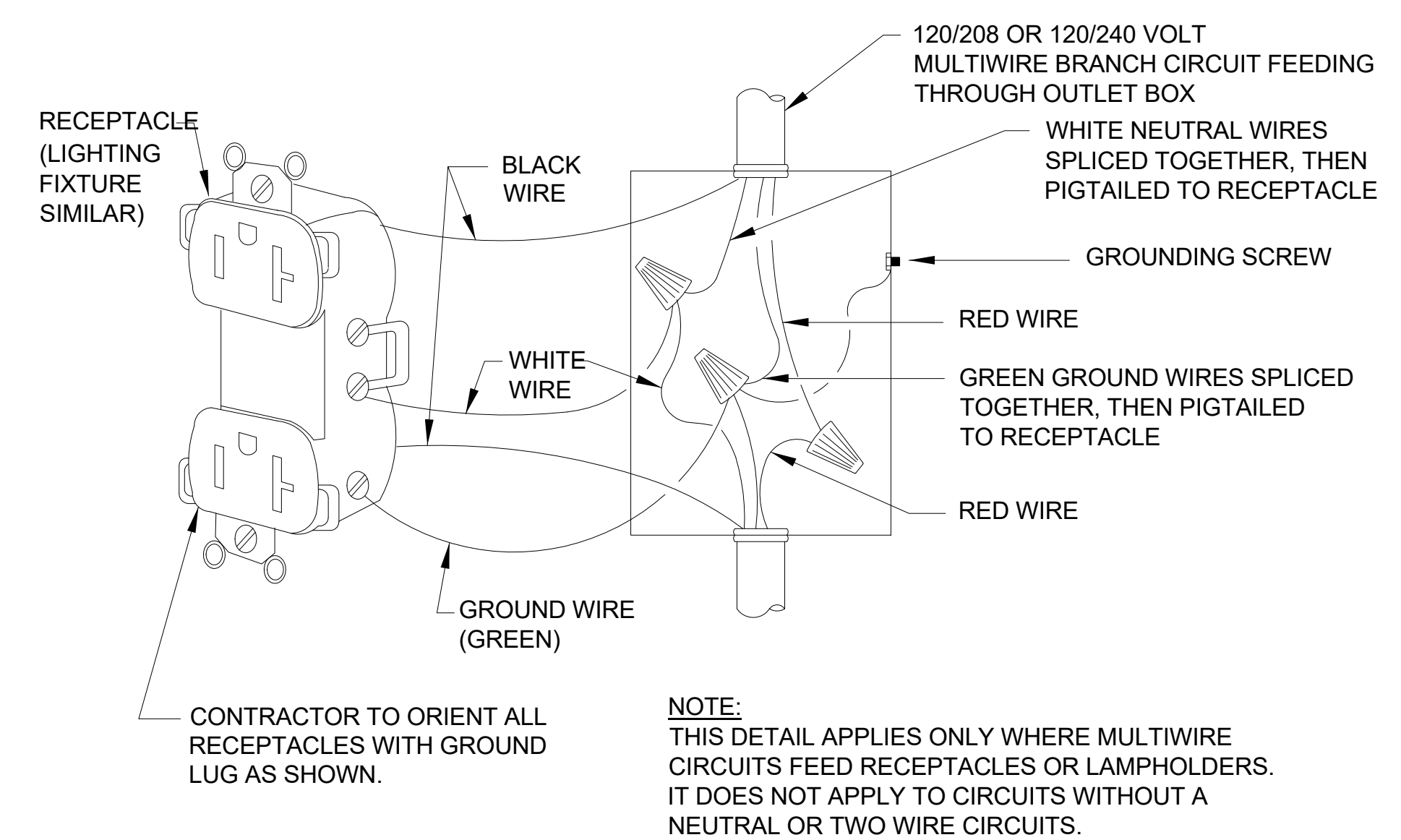
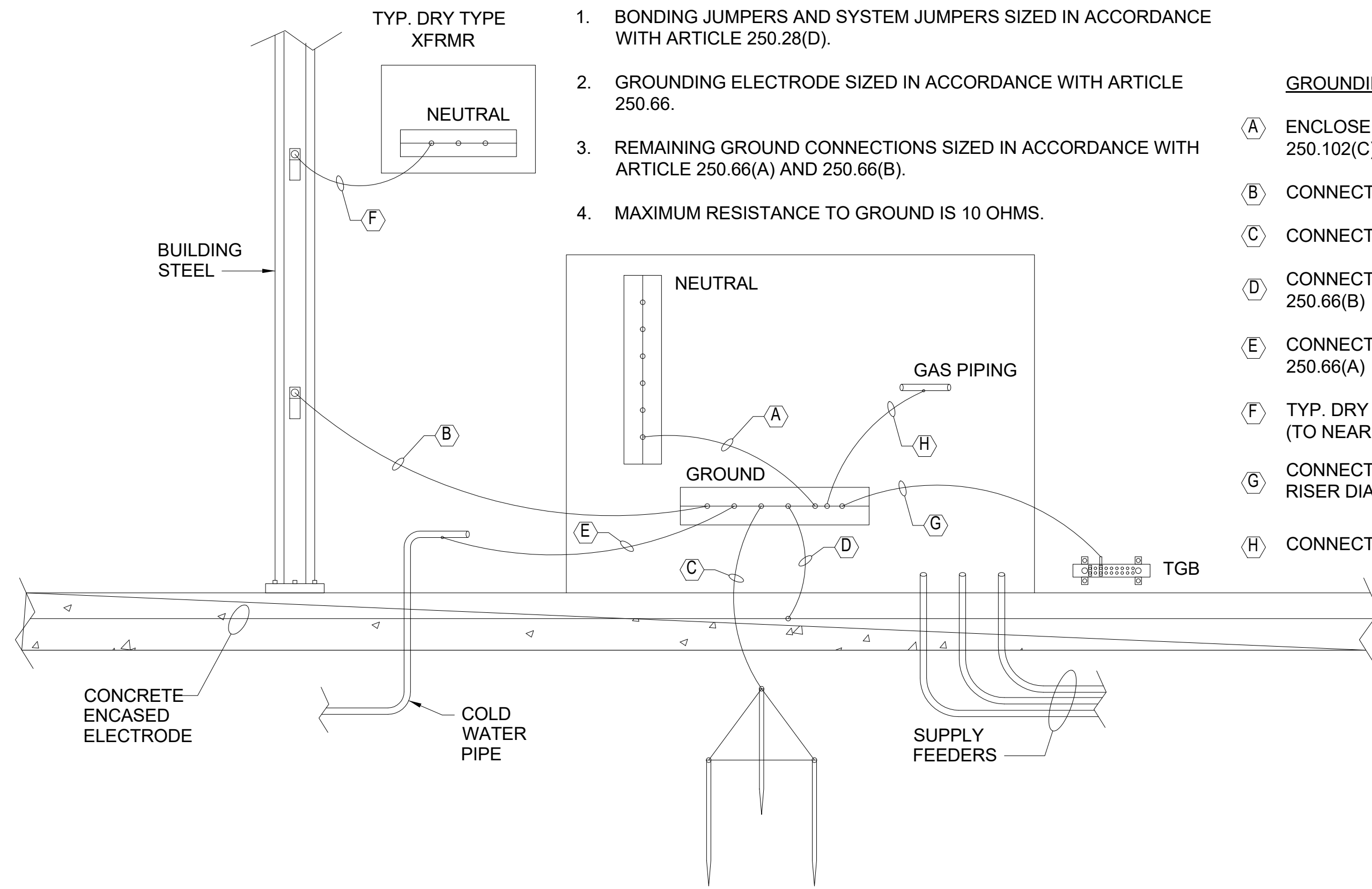
Notes and Details

DETAIL GENERAL NOTES:

1. BONDING JUMPERS AND SYSTEM JUMPERS SIZED IN ACCORDANCE WITH ARTICLE 250.28(D).
2. GROUNDING ELECTRODE SIZED IN ACCORDANCE WITH ARTICLE 250.66.
3. REMAINING GROUND CONNECTIONS SIZED IN ACCORDANCE WITH ARTICLE 250.66(A) AND 250.66(B).
4. MAXIMUM RESISTANCE TO GROUND IS 10 OHMS.

GROUNDING CONDUCTOR SCHEDULE:

- (A) ENCLOSED CIRCUIT BREAKER MAIN BONDING JUMPER: #250KCM CU; TABLE 250.102(C)(1)
- (B) CONNECTION TO BUILDING STEEL: #3/0 CU; ARTICLE 250.66(A)
- (C) CONNECTION TO GROUND RODS: #6 CU; ARTICLE 250.66(A)
- (D) CONNECTION TO CONCRETE ENCASED ELECTRODE: #4 CU; ARTICLE 250.66(B)
- (E) CONNECTION TO UNDERGROUND METAL WATER PIPE: #3/0 CU; ARTICLE 250.66(A)
- (F) TYP. DRY TYPE XFRMR: SIZED PER TABLE 250.66 (TO NEAREST GROUNDING ELECTRODE, SEE EXHIBIT 250.14)
- (G) CONNECTION TO TGB: #2/0 CU. SEE TELECOMMUNICATIONS GROUNDING RISER DIAGRAM.
- (H) CONNECTION TO METAL GAS PIPING: #3/0 CU; ARTICLE 250.66(A)

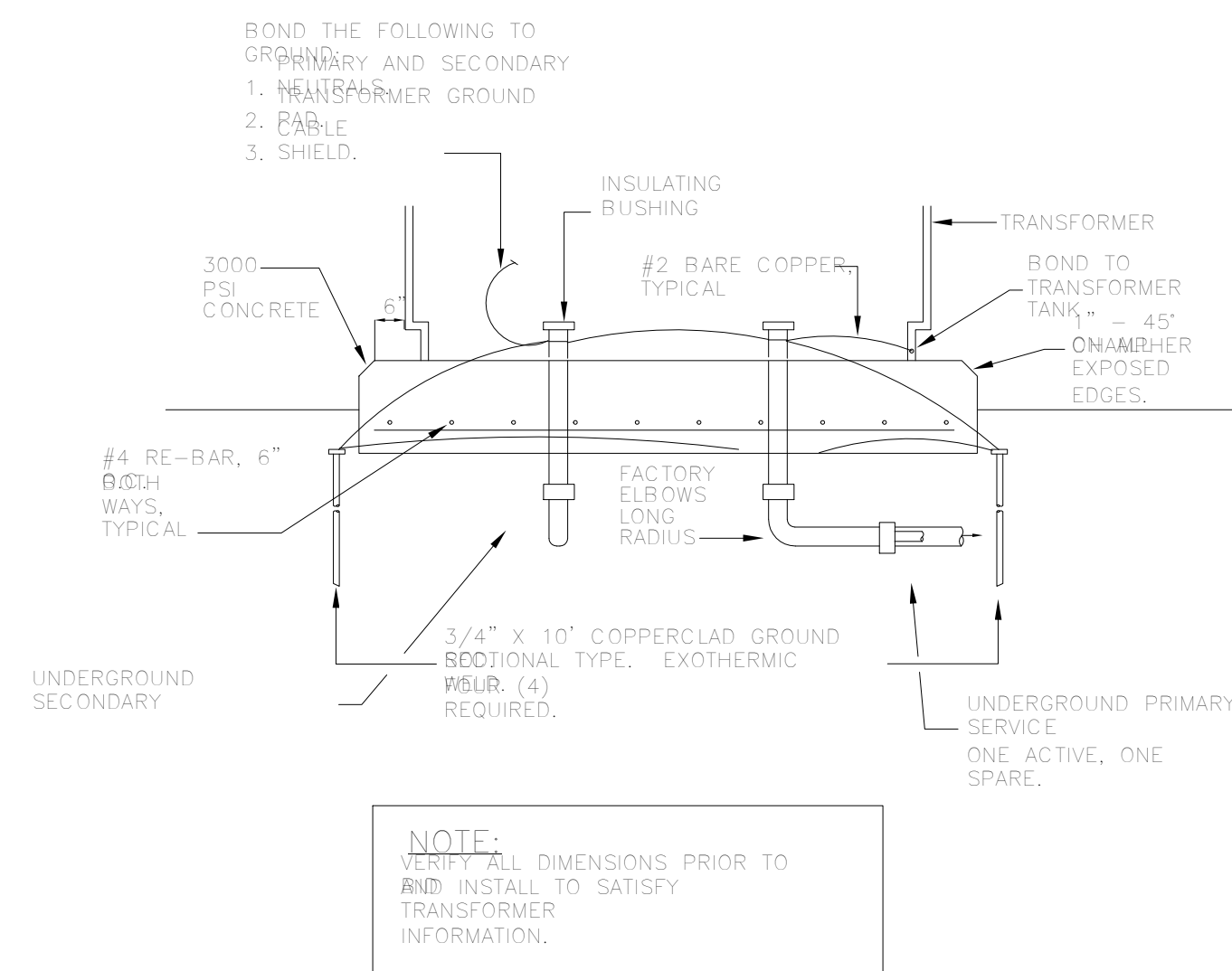


DETAIL - TYPICAL BRANCH CIRCUIT WIRING

SCALE: NONE

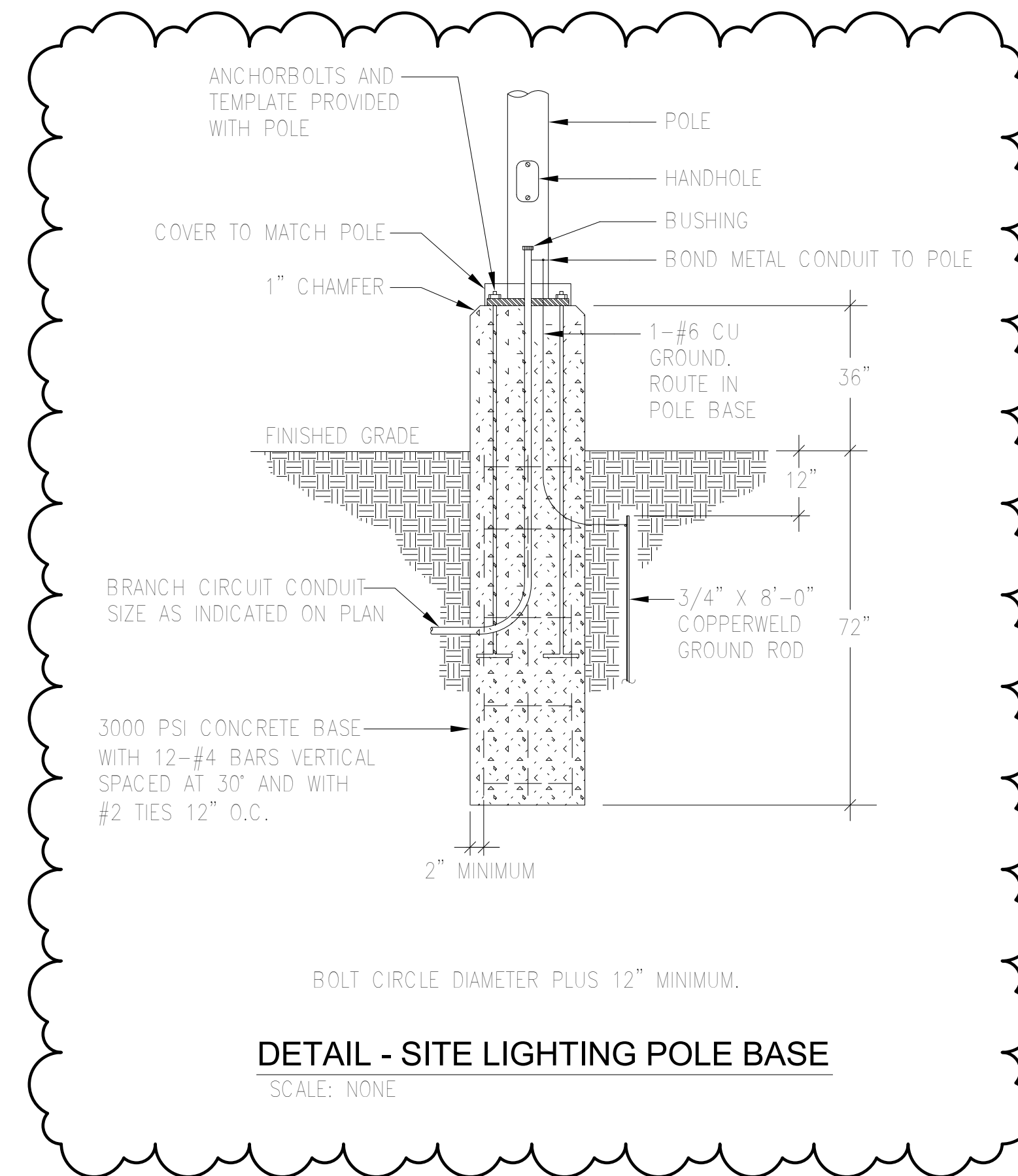
DETAIL - BONDING AND GROUNDING SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER

SCALE: NONE



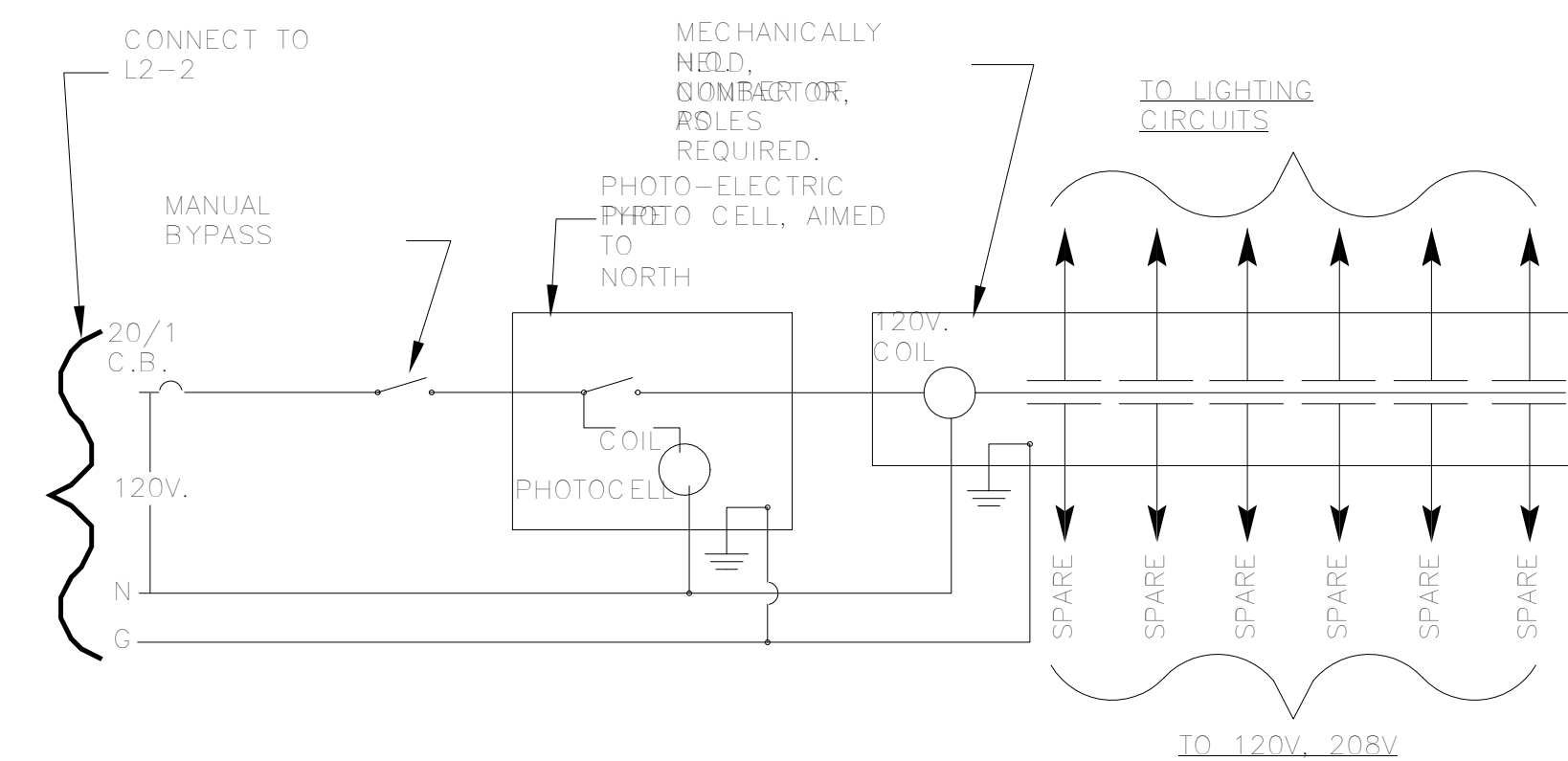
DETAIL - TYPICAL PAD MOUNTED TRANSFORMER

SCALE: NONE



DETAIL - SITE LIGHTING POLE BASE

SCALE: NONE



DETAIL - PHOTOCELL / CONTACTOR CONTROL

SCALE: NONE

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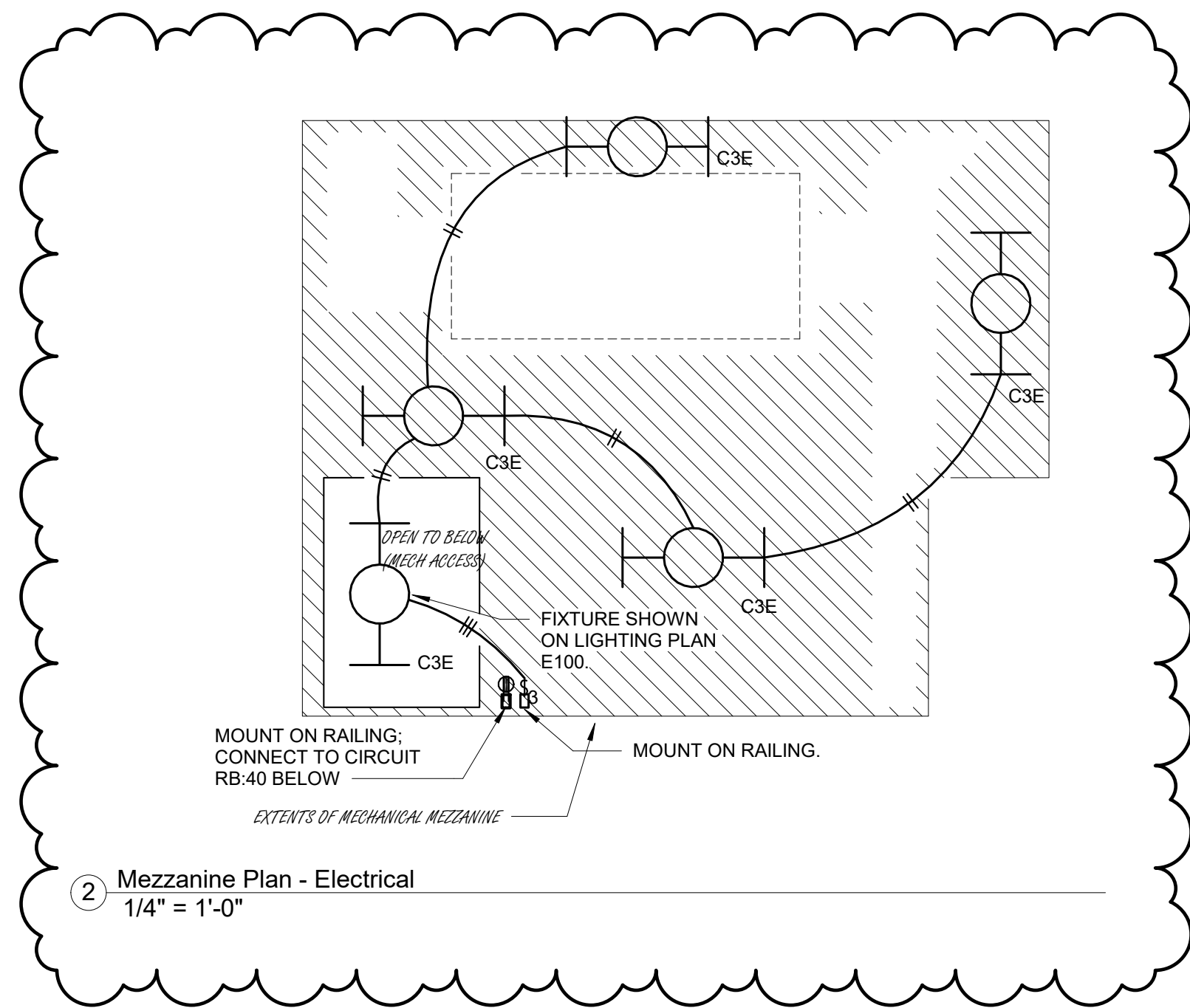
FIXTURE SCHEDULE NOTES:

- A. VERIFY ALL FINISH COLORS WITH ARCHITECT PRIOR TO SUBMITTING EQUIPMENT BROCHURES.
- B. VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS AND PROVIDE THE NECESSARY HARDWARE TO MOUNT THE FIXTURE IN THE CEILING TYPE BEING INSTALLED.
- C. VERIFY MOUNTING HEIGHT OF FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO SUBMITTING EQUIPMENT BROCHURES. IF NO HEIGHT IS SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY HEIGHT WITH THE ARCHITECT PRIOR TO SUBMITTING EQUIPMENT BROCHURES.
- D. WHERE FIXTURES ARE PROPOSED FOR SUBSTITUTIONS, THE CONTRACTOR SHALL PROVIDE ALL OF THE FOLLOWING WITH EQUIPMENT BROCHURES: PHOTOMETRIC LAYOUTS FOR ALL ROOMS, SHEDS, EXTERIOR AREAS, AND ANY OTHER LOCATIONS WHERE LIGHTS ARE USED, POWER DENSITY CALCULATIONS SHOWING ALLOWABLE POWER DENSITIES AND CALCULATED POWER DENSITIES, AND CERTIFICATION THAT THE FIXTURES PROPOSED COMPLY WITH THE APPLICABLE ENERGY CODE.

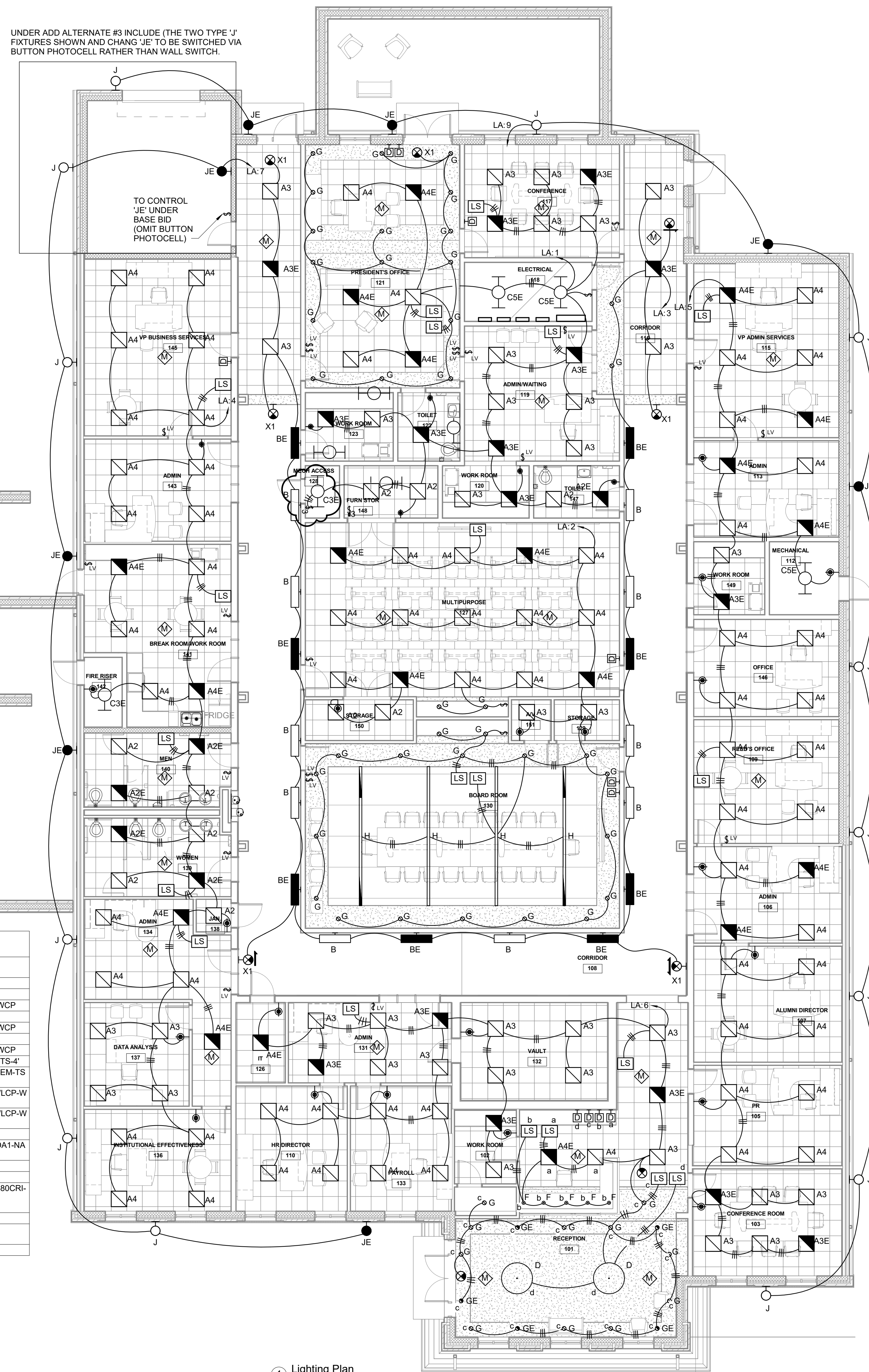
GENERAL NOTES:

- A. PRIOR TO CONDUIT ROUGH-IN, A MEETING SHALL BE HELD WITH THE ARCHITECT AND ENGINEER TO DISCUSS CONDUIT RUNS IN THE CLEAR STORY AREA. AVOID RUNNING CONDUITS AND PLACING JUNCTION BOXES IN THE CLEAR STORY AREA WHERE POSSIBLE UNLESS DIRECTED BY ARCHITECT AND/OR ENGINEER. WHERE IMPOSSIBLE TO AVOID, THE CONDUITS SHALL BE NEATLY BUNDLED IN A LOCATION AS DIRECTED BY THE ARCHITECT.

UNDER ADD ALTERNATE #3 INCLUDE (THE TWO TYPE 'J' FIXTURES SHOWN AND CHANG 'JE' TO BE SWITCHED VIA BUTTON PHOTOCELL RATHER THAN WALL SWITCH.



LUMINAIRE SCHEDULE						
TYPE MARK	LAMP	WATTAGE	VOLT	DESCRIPTION	MANUFACTURER	MODEL
A2	LED	19 W	120	2X2' RECESSED FLAT PANEL	LITHONIA LIGHTING	EPANL-2X2-2000LM-80CRI-40K-MIN1-ZT-MVOLT
A2E	LED	19 W	120	2X2' RECESSED FLAT PANEL WITH EMERGENCY BATTERY PACK	LITHONIA LIGHTING	EPANL-2X2-2000LM-80CRI-40K-MIN1-ZT-MVOLT-E10WCP
A3	LED	30 W	120	2X2' RECESSED FLAT PANEL	LITHONIA LIGHTING	EPANL-2X2-3400LM-80CRI-40K-MIN1-ZT-MVOLT
A3E	LED	30 W	120	2X2' RECESSED FLAT PANEL WITH EMERGENCY BATTERY PACK	LITHONIA LIGHTING	EPANL-2X2-3400LM-80CRI-40K-MIN1-ZT-MVOLT-E10WCP
A4	LED	37 W	120	2X2' RECESSED FLAT PANEL	LITHONIA LIGHTING	EPANL-2X2-4000LM-80CRI-40K-MIN1-ZT-MVOLT
A4E	LED	37 W	120	2X2' RECESSED FLAT PANEL WITH EMERGENCY BATTERY PACK	LITHONIA LIGHTING	EPANL-2X2-4000LM-80CRI-40K-MIN1-ZT-MVOLT-E10WCP
B	LED	36 W	120	4' LINEAR DIRECT/INDIRECT WALL MOUNT	FOCAL POINT	FSM2BW-DCFL-625DN-375UP-940K-1C-UNV-L11-WM-EM-TS-4'
BE	LED	36 W	120	4' LINEAR DIRECT/INDIRECT WALL MOUNT WITH EMERGENCY BATTERY PACK	FOCAL POINT	FSM2BW-DCFL-625DN-375UP-940K-1C-UNV-L11-WM-EM-TS-4'
C3E	LED	25 W	120	4' STRIP FIXTURE WITH EMERGENCY BATTERY PACK	LITHONIA LIGHTING	ZL1N-L48-SMR-3000LM-FST-MVOLT-40K-80CRI-E10WLC-P-H
C5E	LED	34 W	120	4' STRIP FIXTURE WITH EMERGENCY BATTERY PACK	LITHONIA LIGHTING	ZL1N-L48-SMR-5000LM-FST-MVOLT-40K-80CRI-E10WLC-P-H
D	LED	34 W	120	48" ROUND SUSPENDED FIXTURE	TECH LIGHTING	700BOD-48-S-LED930
F	LED	9 W	120	CYLINDER DOWNLIGHT WITH RIGID STEM	LUMENPULSE	LACY5-A-PSF-MWH-M1-D-120-12-4L07-40K-CR80-M-DA1-NA-GLR-b-GLR
G	LED	10 W	120	6" RECESSED DOWNLIGHT	GOTHAM	EV06-40/10-AR-WD-LSS-MVOLT-GZ1
GE	LED	10 W	120	6" RECESSED DOWNLIGHT	GOTHAM	EV06-40/10-AR-WD-LSS-MVOLT-GZ1-EL
H	LED	143 W	120	RECESSED LINEAR FIXTURE (VERIFY LENGTH WITH DRAWINGS) PROVIDE BATTERY PACK IN SECTIONS INDICATED	MARK ARCHITECTURAL LIGHTING	SL4L-LOP-XXFTXX-FLP-TG-80CRI-40K-800LMF-2DL-S80CRI-S40K-MIN1-120
J	LED	50 W	120	TRAPEZOIDAL LED WALL PACK, WIDE THROW	LITHONIA LIGHTING	WST LED P2 40K VV MVOLT PE DBLXD
JE	LED	50 W	120	TRAPEZOIDAL LED WALL PACK, WIDE THROW WITH EMERGENCY BATTERY PACK	LITHONIA LIGHTING	WST LED P2 40K VV MVOLT PE E7WC DBLXD
X1	LED	2 W	120	UNIVERSAL MOUNT SINGLE SIDED EXIT SIGN	LITHONIA LIGHTING	LQC-1-R-EL-N

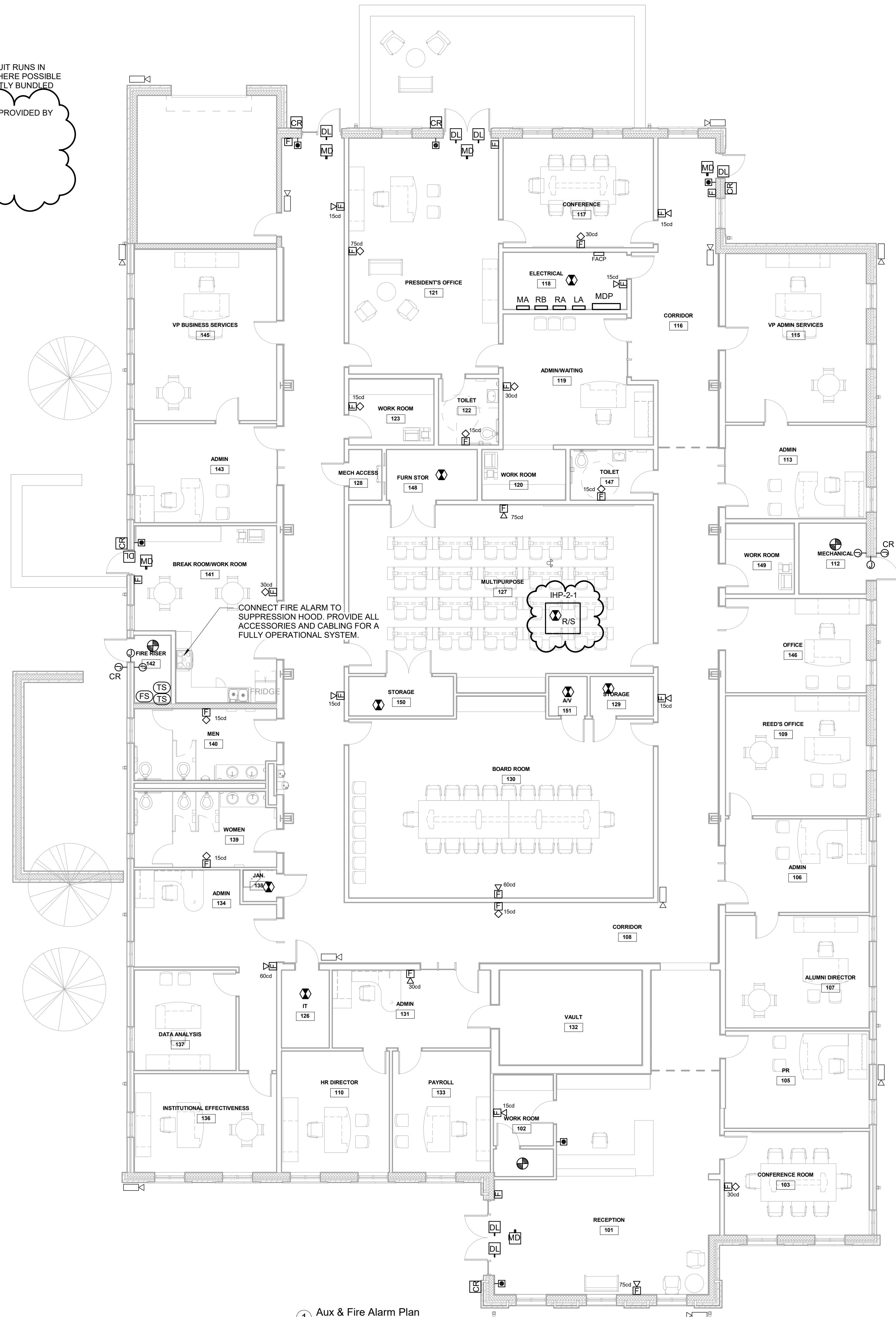


1 Lighting Plan
1/8" = 1'-0"

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- B. CCTV AND ACCESS CONTROL SYSTEMS ARE SHOWN FOR ROUGH-IN PURPOSES ONLY. SYSTEMS THEMSELVES ARE PROVIDED BY OTHERS.
- C. PERFORM TESTING IN ACCORDANCE WITH SPECIFICATIONS.
- D. ATTIC STOCK REQUIREMENTS ARE LISTED IN THE SPECIFICATIONS.
- E. VOICE ALARM IS NOT REQUIRED FOR THIS BUILDING.



1 Aux & Fire Alarm Plan
1/8" = 1'-0"

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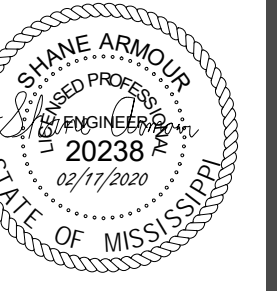


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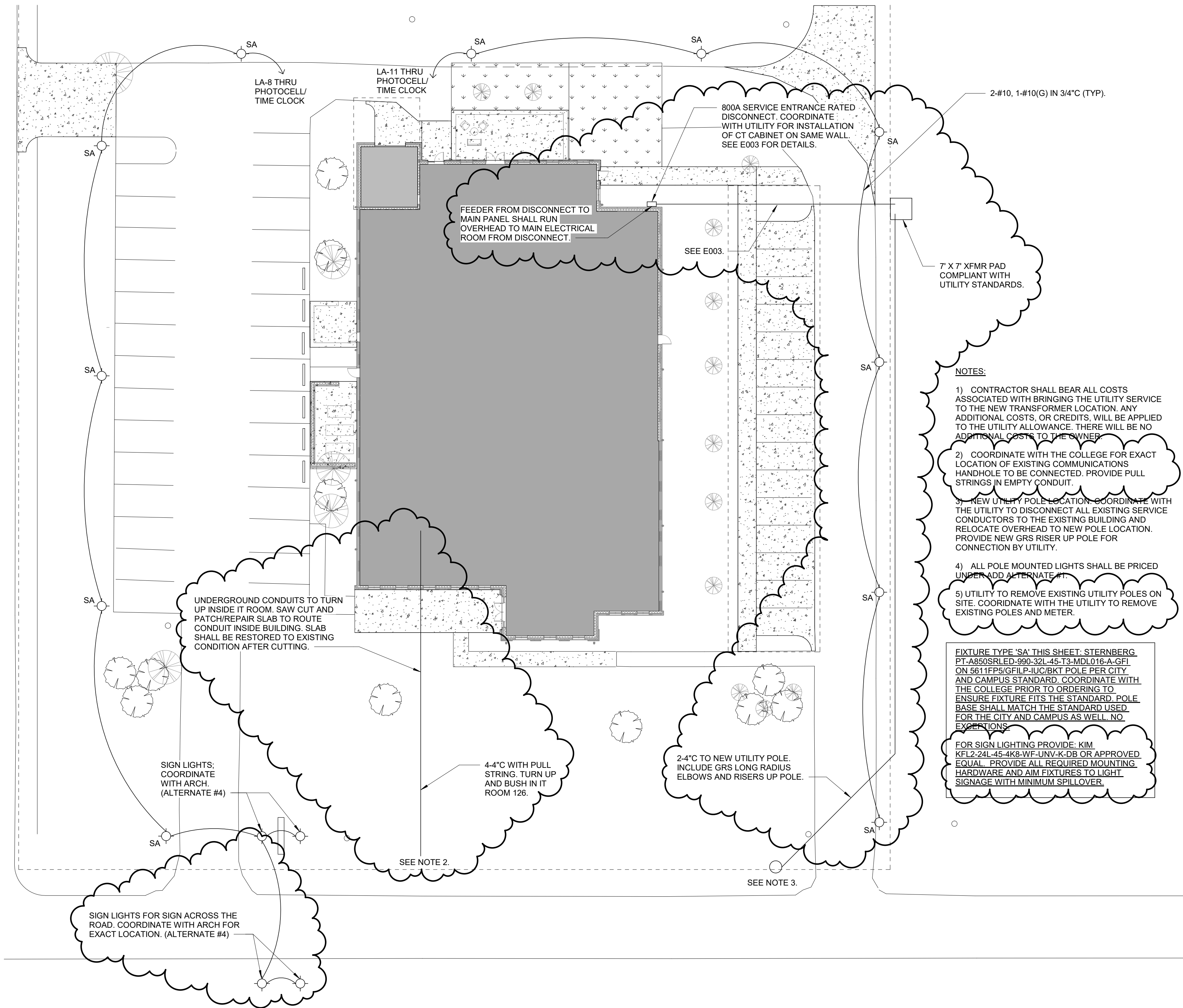


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1 Site Plan - Electrical
1" = 20'-0"

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