

ADDENDUM 01 - 03.02.2018

Cherokee National Capitol – Interior Renovation

Project:

Bid ID: 16807

Owner: Cherokee Nation Businesses, LLC

Architect: 1 Architecture, LLC

To: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original bidding documents with the amendments and additions noted below.

Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of three (3) pages and the following bidding information, Drawings and Attachments:

- The bid due date has been changed to Monday, March 12th at 2:00 PM CST
- No substitution requests were received
- Updated Bid Return Check List attachment consisting of one (1) page
- Addendum 01, Bidder Question and Answers/Clarifications attachment consisting of three (3) pages.
- Addendum 01, Project Manual attachments consisting of twenty-four (24) pages.
- Addendum 01, Drawing attachments consisting of nineteen (19) pages.

CHANGES TO THE PROJECT MANUAL:

SECTION 05 5000 - Metal Fabrications

1. Replace Part 1.08 A.2 with "Warranty Period: 2 Years from date of substantial Completion."

<u>SECTION 23 7413 – Package Indoor Make Up Air Unit</u>

2. ClimateMaster was added as an approved manufacturer in part 2.1 B.4.

SECTION 23 8146 – Water Source Heat Pumps

- Replace Part 2.01 G.5 with: Compressor: Hermetic, variable speed compressor, or a 2-speed compressor with
 variable speed pumps, installed on dual vibration isolators and housed in an acoustically treated enclosure with
 factory-installed safeties as follows:
 - a. Antirecycle timer.
 - b. High-pressure cutout.
 - c. Low-pressure cutout or loss of charge switch.
 - d. Internal thermal-overload protection.
 - e. Freezestat to stop compressor if water-loop temperature in refrigerant-to-water heat exchanger falls below 38 deg.
 - f. Condensate overflow switch to stop compressor with high condensate level in condensate drain pan.
 - g. Water-coil, low-temperature switch.
 - h. Air-coil, low-temperature switch.

SECTION 26 0943 - Network Lighting Controls

4. Specification section added.



CHANGES TO THE DRAWINGS:

SHEET C101 - Pipe Installation Details

5. Added 8.5"x11" sheet with trench and thrust block details.

<u>SHEET A103 – Second Floor Plan</u>

6. Added light gage metal furred out partition (P-13) at Gallery 03 (203).

SHEET A106 – Second Floor Reflected Ceiling Plan

- 7. Added light gage metal furred out partition (P-13) at Gallery 03 (203).
- 8. Removed track lighting from Gallery 06 (206). Contractor will still be required to provide electrical connections at this location for Owner installed exhibit lighting.

SHEET A107 - Ground Floor Finish Plan and Schedule

9. Added products and notes for contractor to seal entirety of first floor existing concrete slab with radon concrete penetrating sealer and radon sealant at any first floor to basement/crawlspace penetrations.

SHEET A301 – Stair Plans and Details

10. 3/A301 - Added light gage metal furred out partition at Gallery 03 (203) and notes to install Chief PAC 526 recessed wall box.

SHEET A403 – Partition Types P10-P13

11. P13/A403 - Added light gage metal furred out partition type P-13.

SHEET M102 - Mechanical Legend and Details

12. Detail 3 was removed.

SHEET M200 - Geothermal Well Field Plan

13. Notes 19 and 20 added.

SHEET M203 – Geothermal Details

14. Detail 1 was changed to include a makeup water connection and hose bibb connections for the drains.

SHEET P200 - Basement - Plumbing Plans

15. A makeup water line, valve and notes have been added for the ground loop piping.

SHEET P300 – Ground Floor – Plumbing Supply Plan

16. A note has been added to show a water line going to the basement.

SHEET E100 - Electrical Notes and Legend

17. Added A/V Push Button to Electrical Legend.

SHEET E102 – Basement Electrical Plans

18. Changed Keynote 26.08 Dimming Panel Specifications.

SHEET E103 – Ground Floor Power Plan

19. Added Keynote 26.12 for security camera installation.

<u>SHEET E104 – Second Floor Power Plan</u>

- 20. Added Keynote 26.12 for security camera installation.
- 21. Added circuits to be controlled via LCP.
- 22. Removed Ceiling mounted projector and speaker at Gallery 203.
- 23. Added power for additional Owner provided exhibit casework at Gallery 205.
- 24. Removed motion sensor and replaced with pushbutton at Lobby 210.

SHEET E201 - Ground Level Lighting Plan

25. Redirected circuitry from panel L1 to panel LB.



<u>SHEET E202 – Second Floor Lighting Plan</u>

- 26. Redirected circuitry from panel L1 to panel LB.
- 27. Removed track lighting from Gallery 206 and replaced with junction box for exhibit light fixtures that will be provided by others.
- 28. Added Lobby track lighting to LCP.

<u>SHEET E301 – Electrical Schedules, Details and Riser</u>

- 29. Added Lighting Control Panel Zone Schedule
- 30. Changed Description of CL1 in Luminaire Schedule
- 31. Removed CL2 from Luminaire Schedule
- 32. Changed the quantity of TH2 in Luminaire Schedule

<u>SHEET E302 – Panel Schedules and Electrical Details</u>

33. Revised panel schedules L1 and LB

END OF ADDENDUM 01

BID RETURN CHECK LIST

(ALL ITEMS BELOW MUST BE INCLUDED IN YOUR BID SUBMISSION OR BID WILL BE SUBJECT TO DISQUALIFICATION)

A.	Sealed envelope clearly marked with project name, bidder name, and bid package number.	
В.	Bid bond or Cashier's check for 5% of bid; required only if bid is over \$100K.	
C.	Acknowledgement of all addenda (if applicable).	
D.	Cherokee Nation - Previous Work History Form, AIA A305, with supporting documentation	
E.	Non-collusion Affidavit	
F.	Business Relationship Affidavit	
G.	Certificate of Insurance	
H. I.	Workers Comp Ins. (proof of effective dates) Copy of TERO Certification front and back (if applicable).	
J.	List of any certifications related to this bid request.	
K.	Copy of CDIB Card (if applicable)	
L.	Contractor's proposed work schedule	
M.	Schedule of values (schedule should show TERO and non-TERO vendors used for each trade)	
N.	A brief narrative, signed and dated, acknowledging the bidder has read the proposal and fully understands the scope of work, drawings, specifications and any other supporting documents included in the proposal.	
Ο.	I list of any materials and/or labor not included in the bid price.	
Ρ.	A complete list of subcontractors that bidder will bring to the project.	

If any items are not included please provide and explanation of why the item isn't included in the bid submittal.

Bidder Question and Answers/Clarifications - 03.02.2018

Cherokee National Capitol – Interior Renovation

Question: Clarify that project is to be bid less sales tax on materials.
 Answer: Due to the size of the project, the potential savings does not offset the amount of time that would be involved for processing. Include sales tax on materials in your bid.

2. **Question**: Will the bid checklist requirements be updated to include the proposed subcontractor list and historical work experience as mentioned at the pre bid?

Answer: Please find attached with this addendum revised bid checklist.

3. **Question**: Clarify that the soils and concrete testing costs are to be included in the contractor's scope and that all special testing is the Owners scope?

Answer: Correct. Soils, concrete and testing per the project manual specification sections are the responsibility of the contractor and special inspections as outlined in sheet S002 are the Owner's responsibility.

4. Question: Please verify the contractor is to provide a geotechnical report at the proposed new elevator pit location prior to performing this portion of the demolition.

Answer: Yes, this is correctly called out on demolition sheet A004. Until last week the building was occupied by the court and the hand augured geotechnical report would have been too intrusive during occupancy.

5. **Question**: Will temporary electric need to be provided for all exterior lighting during any electric downtime for the building construction?

Answer: Yes

6. **Question**: Verify there is only one Unit Price item.

Answer: Per specification section 01 2200 – Unit Prices section 3.01 Schedule of Unit Prices there is only one unit price item. The numbers 1-4 in that section are a Microsoft word heading format that gives a description of the purpose of the Unit Price, defines the Unit for pricing, describes what is to be included in the base bid and provides further detail for the Unit Price scope.

7. Question: Will a temporary project sign be required?

Answer: Yes, contractor to provide (1) 4'x8' project sign with full color vinyl graphic mounted on minimum 3/4" thick exterior grade painted plywood with (2) 4x4 painted wood posts.

- 8. Question: Sheet C100 notes the location of the new 8" fire line. Are there any trench details and/or requirements for material type, bedding, tracer wires, thrust blocks, city vaults, etc?

 Answer: Reference sheet C101 of Addendum 01 for material types, trench and thrust block details. In our phone communications with TPWA prior to issuing the project for bidding, TWPA did not state a vault would be required at the waterline tap. Please provide a city vault in your exclusions list for bidding.
- 9. Question: Section 055000 calls out for a 20 year warranty on powder coat, is this correct?

 Answer: Reference Addendum 01 Revise section 05 5000 1.08 A.2. Warranty Period to: 2 years from date of substantial completion.
- 10. Question: Verify that doors 101A and 101B have clearance for the ADA Operators.
 Answer: Section 1205.6 of the IEBC for historic buildings permits the continued use of non-code complying door openings as long as they are no more hazardous than before the rehabilitation.

The specified ADA operators will be mounted on the frame above the doors and will not reduce the clearance any more than the existing closers that are being replaced.

11. **Question**: Advise if any toilet accessory items (owner preferred vendor on toiletries) are to be Owner provided and contractor installed?

Answer: No toilet accessories will be Owner provided. All toilet accessory items are to be contractor provided and installed.

- 12. Question: Doors type P-G call out for glazing but there is no glazing spec, please provide.

 Answer: Provide door manufacturer's standard non-wire fire-rated glazing as a part of the tested rating assembly in order to achieve the fire rating indicated in the door schedule.
- 13. Question: On the Glass Railing on the job, what material is to be used for the cap, what type of finish for the cap and the glass track, and also what type and size of glass to be used? Also on the existing stair on the inside of the stair where does the wall end and the glass railing start? I looked for other elevation drawings but could not find one that help with this.

Answer: Reference specification section 05 7300-Decorative Metal Railings part 2 for railing components, glass infill panels, materials and finishes. Reference 3/A301 - Enlarged Stair Modification Plan for glass railing dimensions. The railing at the top of the stair is 4'-9" long x 3'-6" Tall (AFF). The railing along the inside of the stair is 9'-4 $\frac{1}{2}$ " long x 3'-6" tall (above stair treads).

14. **Question**: Sheet A101 calls out to apply spray foam to underside of ground floor structure in crawl space. What is the intended final thickness of spray foam and intended R value? Apply as far to west as possible? Or remove of soils to cover all?

Answer: Thickness to achieve minimum R-19. Apply as far west as possible without removing soil.

15. **Question**: Sheet A501 indicates wall type WD-3 at face of the radius info desk. Please provide an elevation of the face showing the random appearance of the white oak and also verify that 1/4" to 5/8" random thickness is intended as bending the thicker will be an issue without backside kerfing that may show.

Answer: The thicknesses vary. If kerfing is needed for the thicker pieces, the directly adjacent pieces can be a slightly thinner thickness enough to cover the kerfs. Alternatively, the thicker pieces can be steamed or water soaked and braced around a positive form to get the radius.

16. Question: There is no CMU spec are we to utilize the Division 4 Masonry as a specification guide shown on sheet S001?

Answer: Yes

- 17. Question: Sheet S001 advises that structural shop drawings submitted for review are to be stamped by a structural engineer and further advises to be submitted not only to the structural engineer of record but also the Owners Testing Agency, Clarify? Will we be required to submit engineered stamped rebar shops, structural steel shops and cold formed/metal stud shops?
 Answer: Relevant items indicated to be required by building code in the special inspection schedules on sheet S002 are to be additionally reviewed by the Owner's Testing Agency. Engineered sealed shop drawings will be required for rebar and structural steel. Engineered sealed shop drawings will be required metal studs only at loadbearing locations at the new stair walls and ceiling.
- 18. **Question**: Detail 7 on sheet \$501 shows for a reinforced bond beam at the final course to the bottom of the second floor. This is not possible to place the reinforcing and grout full, please review and advise?

Answer: The bond beam can be lowered one course.

19. **Question**: Section 23 0923 calls out for the base bid to be with Alerton on the DDC. It has two other systems as approved but still states to submit data on others than Alerton for approval prior to bid, advise if Trane Tracer SC and Automated Logic require any further documentation to be submitted prior to bid to be acceptable?

Answer: The other listed approved manufacturers will need to meet the standards set for the Alerton basis of design, but as long as they are listed in the specifications as an Approved Control Manufacturer they do not need to be submitted for preapproval.

Question: There is no reference in the Hydronic, ground loop sections or sheet M202 and M203 referencing the IGSHPA or their requirements for design, install and maintenance, will this be required and will install contractors require their certifications?

Answer: Yes, Reference notes 19 and 20 on sheet M200 added in Addendum 01

20. Question: Verify section 23 7413 is applicable?

Answer: Yes, reference M101 for Dedicated Outdoor Air Unit Schedule. Note, In Addendum 01 ClimateMaster was added as an acceptable manufacturer.

21. Question: Verify detail 3 on sheet M102 is not applicable and that all EF's are to be exhausted through roof?

Answer: This detail is no longer applicable and has been removed in Addendum 01.

22. **Question**: Sheet P 200 does not show any new floor drains at the fire riser or ground loop piping entry, will there be any required?

Answer: Floor drains are not required at these locations. The main drain shall be routed to the exterior, reference detail 9/P101. Additionally, reference Addendum 01 detail 1/M203 for changes that provide drains for the equipment to be serviced with a hose routed to the existing sump pump or storm drain.

23. Question: Verify the intent of the new service entrance on power is to be from the existing transformer to the interior and that the existing transformer in its current location is not to change? Answer: Correct, the electric service is coming from the existing transformer location. PWA, the electric utility company provider, stated they would install a new transformer if required. Prior to issuing the project for bidding, they were provided with the drawings for coordination.

SECTION 05 5000 METAL FABRICATIONS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section Includes:

- Steel framing and supports for applications where framing and supports are not specified in other Sections.
- 2. Elevator machine beams, hoist beams, and divider beams.
- 3. Steel shapes for supporting elevator door sills.
- Metal ladders.

B. Related Sections:

- Division 05 Section "Structural Steel Framing."
- Division 05 Section "Decorative Metal Railings."

1.03 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design ladders, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

1.04 SUBMITTALS

- A. Shop Drawings: Show fabrication and installation details for metal fabrications.
 - 1. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.
- B. Samples for Verification: For each type and finish of extruded nosing.
- C. Delegated-Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation, licensed to practice in the state of the project.
- D. Welding certificates.
- E. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers certifying that shop primers are compatible with topcoats.

1.05 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code Steel."
- B. Welding Qualifications: Qualify procedures and personnel according to the following:

- 1. AWS D1.1/D1.1M, "Structural Welding Code Steel."
- 2. AWS D1.2/D1.2M, "Structural Welding Code Aluminum."
- 3. AWS D1.6, "Structural Welding Code Stainless Steel."

1.06 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating metal fabrications without field measurements. Coordinate construction to ensure that actual dimensions correspond to established dimensions. Allow for trimming and fitting.

1.07 COORDINATION

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of anchorages for metal fabrications. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.08 WARRANTY

- A. Special Powder Coat Finish Warranty: Provide Manufacturer's standard warranty for work under this Section. Such warranty shall be in addition to and not in lieu of other liabilities which manufacturers and Contractor may have by law or by other provisions of the Contract Documents.
 - 1. Manufacturer guarantees supplied components will not rust, peel or blister for the duration of warranty period. Damage from accident, improper transport, improper installation, normal finish wear, vandalism or abuse are not covered. Warranty is limited to pro-rated value of the coating only, not to exceed original cost of coating.
 - Warranty Period: 2 Years from date of Substantial Completion.

PART 2 - PRODUCTS

WARRANTY PERIOD CHANGED ADDENDUM 01 - 03.02.18

2.01 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

2.02 FERROUS METALS

- A. Steel Plates, Shapes, and Bars: ASTM A36.
- B. Steel Tubing: ASTM A 500, cold-formed steel tubing.
- C. Steel Pipe: ASTM A 53, standard weight (Schedule 40) unless otherwise indicated.

2.03 FASTENERS

A. General: Unless otherwise indicated, provide Type 304 or Type 316 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select tamper-resistant fasteners for type, grade, and class required.

2.04 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
- B. Shop Primers: Provide primers that comply with Division 09 painting Sections.
- C. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
 - 1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.
- D. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
- E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.
- F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- G. Concrete: Comply with requirements in Division 03 Section "Cast-in-Place Concrete" for normal-weight, air-entrained, concrete with a minimum 28-day compressive strength of 3000 psi

2.05 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Form exposed work with accurate angles and surfaces and straight edges.
- E. Weld corners and seams continuously to comply with the following:
 - Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.

- G. Fabricate seams and other connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
- I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
 - 1. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches, with a minimum 6-inch embedment and 2-inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

2.06 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
- C. Fabricate supports for operable partitions from continuous steel beams of sizes recommended by partition manufacturer with attached bearing plates, anchors, and braces as recommended by partition manufacturer. Drill or punch bottom flanges of beams to receive partition track hanger rods; locate holes where indicated on operable partition Shop Drawings.
- D. Galvanize miscellaneous framing and supports where indicated.

2.07 METAL LADDERS

A. General:

- 1. Comply with ANSI A14.3 unless otherwise indicated.
- 2. For elevator pit ladders, comply with ASME A17.1.

B. Steel Ladders:

- 1. Space siderails 18 inches apart unless otherwise indicated.
- 2. Space siderails of elevator pit ladders 12 inches apart.
- 3. Siderails: Continuous, 1/2-by-2-1/2-inch steel flat bars, with eased edges.
- 4. Rungs: 1-inch square steel bars capable of withstanding a 300lb load.
- 5. Fit rungs in centerline of siderails: plug-weld and grind smooth on outer rail faces.
- 6. Provide nonslip surfaces on top of each rung, either by coating rung with aluminum-oxide granules set in epoxy-resin adhesive or by using a type of manufactured rung filled with aluminum-oxide grout.
- 7. Support each ladder at top and bottom and not more than 60 inches o.c. with welded or bolted steel brackets.
- 8. Galvanize ladders, including brackets and fasteners, with zinc-rich primer.

2.08 MISCELLANEOUS STEEL TRIM

- A. Unless otherwise indicated, fabricate units from steel shapes, plates, and bars of profiles shown with continuously welded joints and smooth exposed edges. Miter corners and use concealed field splices where possible.
- B. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work.

- Provide with integrally welded steel strap anchors for embedding in concrete or masonry construction.
- C. Galvanize exterior miscellaneous steel trim.
- D. Prime miscellaneous steel trim with zinc-rich primer.

2.09 STEEL WELD PLATES AND ANGLES

A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with no fewer than two integrally welded steel strap anchors for embedding in concrete.

2.10 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish metal fabrications after assembly.
- C. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.11 STEEL AND IRON FINISHES

- A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153 for steel and iron hardware and with ASTM A 123 for other steel and iron products.
 - 1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.
- B. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.
 - 1. Shop prime with primers specified in Division 09 painting Sections unless indicated.
- C. Preparation for Shop Priming: Prepare surfaces to comply with requirements indicated below:
 - 1. Exterior Items: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 2. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 3. Items Indicated to Receive Primers Specified in Division 09: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 4. Other Items: SSPC-SP 3, "Power Tool Cleaning."
- D. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.
 - 1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

- C. Field Welding: Comply with the following requirements:
 - Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.
- E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.
- F. Corrosion Protection: Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:
 - Extruded Aluminum: Two coats of clear lacquer.

3.02 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.
- B. Anchor supports for operable partitions securely to and rigidly brace from building structure.

3.03 ADJUSTING AND CLEANING

- A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
 - 1. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.
- B. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Division 09 painting Sections.
- C. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

END OF SECTION 05 5000

SECTION 23 7413 PACKAGED INDOOR MAKE UP AIR UNIT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Indoor packaged unit
- B. Refrigeration components.
- C. Unit operating controls.
- D. Electrical power connections.
- E. Operation and maintenance service.

1.3 REFERENCES

- A. NFPA 90 A & B Installation of Air Conditioning and Ventilation Systems and Installation of Warm Air Heating and Air Conditioning Systems.
- B. ANSI/ASHRAE 15 Safety Code for Mechanical Refrigeration.
- C. ARI 360 Commercial and Industrial Unitary Air Conditioning Equipment testing and rating standard.
- D. ANSI/ASHRAE 37 Testing Unitary Air Conditioning and Heat Pump Equipment.
- E. ANSI/ASHRAE/IESNA 90.1-1999 Energy Standard for New Buildings Except Low-Rise Residential Buildings.
- F. ANSI Z21.47/UL1995 Unitary Air Conditioning Standard for safety requirements.
- G. ARI 210/240 Unitary Air-Conditioning Equipment and Air
- H. ANSI/NFPA 70-1995 National Electric Code.

I.

1.4 SUBMITTALS

- A. Submit unit performance data including: capacity, nominal and operating performance.
- B. Submit Mechanical Specifications for unit and accessories describing construction, components and options.
- C. Submit shop drawings indicating overall dimensions as well as installation, operation and services clearances. Indicate lift points and recommendations and center of gravity. Indicate unit shipping, installation and operating weights including dimensions.
- D. Submit data on electrical requirements and connection points. Include recommended wire and fuse sizes or MCA, sequence of operation, safety and start-up instructions.
- E. Shop drawings submitted for approval shall be accompanied by a copy of the purchase agreement between the Contractor and an authorized service representative of the manufacturer for check, test and start up and first year service.

1.5 DELIVERY, STORAGE and HANDLING

- A. Comply with manufacturer's installation instructions for rigging, unloading, and transporting units.
- B. Protect units from physical damage. Leave factory-shipping covers in place until installation.

1.6 WARRANTY

- A. Provide factory start up with parts, labor, and refrigerant loss warranty for TWO years from substantial completion or 30 months from shipment.
- B. Provide five-year total warranty for compressors (materials only).

1.8 REGULATORY REQUIREMENTS

A. Unit shall conform to ANSI Z21.47/UL1995 for construction of packaged air conditioner.

1.9 EXTRA MATERIALS

- A. Provide one set of new MERV 8 filters for use during final balancing.
- B. Provide one set of MERV 8 Media for installation during construction.

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APPROVED MANUFACTURER ADDED

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PART 2 PRODUCTS

2.1 SUMMARY

A. The contractor shall furnish and install packaged unit(s) as shown and scheduled on the contract documents. The unit(s) shall be installed in accordance with this specification and perform at the specified conditions as scheduled.

B. APPROVED MANUFACTURERS

- 1. Valent
- 2. Addison
- 3. Desert Aire
- 4. ClimateMaster

2.2 GENERAL UNIT DESCRIPTION

- A. Unit(s) furnished and installed shall be cooling only packaged units as scheduled on contract documents and these specifications. Cooling capacity ratings shall be based on ARI Standard 210. Unit(s) shall consist of insulated weather-tight casing with compressor(s), air-cooled condenser coil, condenser fans, evaporator coil, return-air filters, supply motors and unit controls and drives.
- B. Unit(s) shall be 100% factory run tested and fully charged with R-410A.
- C. Unit(s) shall have labels, decals, and/or tags to aid in the service of the unit and indicate caution areas.
- D. Wiring internal to the unit shall be colored and numbered for identification.
- E. If scheduled, furnish unit with factory mounted unit circuit breaker/disconnect switch with provision for power wiring.

2.3 UNIT CASING

- A. Cabinet: Galvanized steel, phosphatized, and finished with an air-dry paint coating with removable access panels. Structural members shall be 18 gauge with access doors and removable panels of minimum 20 gauge.
- B. Units cabinet surface shall be tested 1000 hours in salt spray test in compliance with ASTM B117.
- C. Cabinet construction shall allow for all service/ maintenance from one side of the unit.
- D. Cabinet top cover shall be one piece construction or where seams exist, it shall be double-hemmed and gasket-sealed.
- E. Access Panels: Water- and air-tight panels with handles shall provide access to filters, heating section, return air fan section, supply air fan section, evaporator coil section, and unit control section.
- F. Units base pan shall have a raised 1 1/8 inch high lip around the supply and return openings for water integrity.
- G. Insulation: Provide 1/2 inch thick fiberglass insulation with foil face on all exterior panels in contact with the return and conditioned air stream. All edges must be captured so that there is no insulation exposed in the air stream.
- H. Provide openings either on side of unit or through the base for power, control, condensate, and hydronic piping connections.
- I. The base of the unit shall have 3 sides for forklift provisions. The base of the units shall have rigging/lifting holes for crane maneuvering.
- J. Provide double-sloping drain pan and Install appropriate PVC "P" Trap for condensate.

2.4 AIR FILTERS ACCESS

A. Air Filters: Factory installed filters shall mount integral within the unit and shall be accessible through access panels.

2.5 FANS AND MOTORS

- A. Provide evaporator fan section with forward curved, double width, double inlet, centrifugal type fan.
- B. Provide self-aligning, grease lubricated, ball or sleeve bearings with permanent lubrication fittings.
- C. If direct drive supply fan motors, provide multi-speed motor. If belt drive supply fan motors, provide with adjustable motor sheaves.

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- E. Indoor Fan motors shall be permanently lubricated and have internal thermal overload protection.
- F. Provide shafts constructed of solid hot rolled steel, ground and polished, with key-way, and protectively coated with lubricating oil.

2.6 NOT USED

2.7 EVAPORATOR COIL

- A. Provide configured aluminum fin surface mechanically bonded to copper tubing coil.
- B. Provide factory installed thermal expansion valve (TXV) for each refrigerant circuit. Factory pressure tested at 450 psig and leak tested at 200 psig.
- C. Provide a removable, reversible, cleanable double sloped drain pan for base of evaporator coil.

2.8 CONDENSER SECTION

- A. Provide vertical discharge, direct drive fans with aluminum blades. Fans shall be statically balanced.
- B. Motors shall be permanently lubricated, with integral thermal overload protection in a weather tight casing.
- C. Provide Condenser Coil Expanded metal hail guard.

2.9 REFRIGERATION SYSTEM

- A. Compressor(s): Provide scroll compressor with direct drive operating at 3600 rpm and Integral centrifugal oil pump. Provide suction gas cooled motor with winding temperature limits and compressor overloads.
- B. Units shall have cooling csapabilities down to 0 degree F as standard. For field-installed low ambient accessory, the manufacturer shall provide a factory-authorized service technician that will assure proper installation and operation.
- C. Provide each unit with one refrigerant circuit(s) factory-supplied completely piped with liquid line filter-drier, suction and liquid line pressure ports.

2.10 EXHAUST/RETURN SECTION

A. Provide barometric relief on all units to be furnished with economizer.

2.11 OUTDOOR AIR SECTION

- A. Provide a fully integrated factory-installed 100% modulating outside air economizer with unit return and barometric relief air dampers, minimum position setting, preset linkage, wiring harness with plug. Unit operation is through primary temperature controls that automatically modulate dampers to maintain space temperature conditions.
- B. Provide economizer with dry bulb control unless specifically scheduled on plans otherwise.
- C. Provide adjustable minimum position control located in the economizer section of the unit. Integrate minimum position into unit controls interface to provide minimum outside air adjustment from computer front end
- D. Provide spring return motor for outside air damper closure during unit shutdown or power interruption.
- E. Provide hail guard for condenser coil.

2.12 OPERATING CONTROLS

- A. The unit-mounted controls shall perform all unit functions by making all heating, cooling, and ventilating decisions through resident software logic.
- B. Provide factory-wired units with 24 volt control circuit with control transformers, contactor pressure lugs or terminal block for power wiring. Units shall have single point power connections. Field wiring of zone controls to be NEC Class II.
- C. Provide factory-installed indoor evaporator defrost control to prevent compressor slugging by interrupting compressor operation.
- D. Provide an anti-cycle timing and minimum on/off between stages timing in the microprocessor.
- E. Economizer Preferred Cooling (if supplied with economizer) Compressor operation is integrated with economizer cycle to allow mechanical cooling when economizer is not adequate to satisfy zone requirements. Compressors are enabled if space temperature is recovering to cooling setpoint at a

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rate of less than 0.2 degrees per minute. Compressor low ambient lockout overrides this function.

2.13 STAGING CONTROLS

- A. Provide NEC Class II, electronic, adjustable zone control to maintain zone temperature setting.
- B. Connect to existing thermostat.
- C. Provide mixed air sensor in unit supply air to control economizer damper to temper supply air (45 deg min). Provide supply air sensing tube to allow for accurate discharge air temperatures downstream of heating section.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Contractor shall verify that platform is ready to receive work and opening dimensions are as indicated on shop drawings.
- B. Contractor shall verify that proper power supply is available.

3.2 INSTALLATION

- A. Disconnect and remove existing packaged units as scheduled. Connect electric, hydronic, and condensate piping for a fully working system.
- C. Install units per manufacturer's recommendations. If conflicts occur between these specifications and manufacturer's recommendations, ask the engineer prior to doing anything.

3.3 MANUFACTURER'S FIELD SERVICES

A. The contractor shall furnish manufacturer complete submittal wiring diagrams of the package unit as applicable for field maintenance and service.

END OF SECTION

SECTION 23 8146 WATER SOURCE HEAT PUMPS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - Concealed horizontal and vertical units.
 - 2. Exposed, floor-mounted console units.

1.02 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.03 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.
- B. Warranty: Provide warranty information with serial numbers of each piece of equipment.

1.04 CLOSEOUT SUBMITTALS

A. Operation and maintenance data and warranty data.

1.05 QUALITY ASSURANCE

- A. ASHRAE Compliance:
 - ASHRAE 15.
 - 2. Applicable requirements in ASHRAE 62.1, Section 5 "Systems and Equipment" and Section 7 "Construction and Startup."
- B. ASHRAE/IESNA Compliance: Applicable requirements in ASHRAE/IESNA 90.1, Section 6 "Heating, Ventilating, and Air-Conditioning."
- C. Comply with NFPA 70.
- D. Comply with safety requirements in UL 484 for assembly of free-delivery, water-source heat pumps.
- E. Comply with safety requirements in UL 1995 for duct-system connections.

1.06 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of water-source heat pumps that fail in materials or workmanship within specified warranty period.

- 1. Failures include, but are not limited to BAS components and refrigeration components.
- 2. Warranty Period: One year from date of Substantial Completion on entire unit. Five years parts, labor, and refrigerant warranty on compressors.

PART 2 - PRODUCTS

2.01 WATER-SOURCE HEAT PUMPS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - ClimateMaster Trilogy 45
 - 2. Trane Axiom
 - 3. WaterFurnace 700A11
- B. Description: Packaged water-source heat pump with temperature controls; factory assembled, tested, and rated according to ASHRAE/ARI/ISO-13256-1.
 - 1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
- C. Cabinet and Chassis: Galvanized-steel casing with the following features:
 - 1. Provide manufacturer's best sound deadening package available.
 - 2. Custom access panel for access and maintenance of internal components.
 - 3. Knockouts for electrical and piping connections.
 - 4. Flanged duct connections.
 - 5. Cabinet Insulation: Provide the Deluxe (premium) insulation and cabinet with the most sound-deadening package available.
 - 6. Units field convertible for various discharge configurations.
 - 7. Condensate Drainage: High-density polyethylene plastic or stainless-steel double sloping drain pan with condensate drain piping projecting through unit cabinet and complying with ASHRAE 62.1.
 - a. Condensate Overflow Protection Switch: Factory installed, factory wired, solid state electronic; mechanical float switch not permitted.
 - 8. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1 with either foil faced or closed-cell foam insulation.
- D. Fan: Vortica blower. Direct driven, centrifugal, with variable motor resiliently mounted in fan inlet and with inlet rings to allow wheel removal from one side without removing housing.
 - 1. Motor: Variable speed, permanently lubricated, ECM motor.

E. Water Circuit:

- 1. Refrigerant-to-Water Heat Exchangers:
 - a. Coaxial heat exchangers with copper water tube with enhanced heat-transfer surfaces inside a steel shell; both shell and tube are leak tested at the factory on refrigerant side and on water side. Factory mount heat exchanger in unit on resilient rubber vibration isolators.

- b. Stainless-steel, brazed-plate heat exchanger is leak tested at the factory. Factory mount heat exchanger in unit on resilient rubber vibration isolators. Water-Regulating Valves: Limit water flow through refrigerant-to-water heat exchanger, and control head pressure on compressor during cooling and heating. Valves shall close when heat-pump compressor is not running.
- 2. Motorized Water Valve: Stop water flow through the unit when compressor is off.
- F. Refrigerant-to-Air Coils: Copper tubes with aluminum fins, leak tested at the factory.
- G. Refrigerant Circuit Components:
 - 1. Sealed Refrigerant Circuit: Charge with R-410A refrigerant.
 - 2. Filter-Dryer: Factory installed to clean and dehydrate the refrigerant circuit.
 - 3. Charging Connections: Service fittings on suction and liquid for charging and testing on each circuit.
 - 4. Reversing Valve: Four-way, solenoid-activated valve designed to be fail-safe in heating position with replaceable magnetic coil.
 - 5. Compressor: Hermetic, variable speed compressor, or a 2-speed compressor with variable speed pumps, installed on dual vibration isolators and housed in an acoustically treated enclosure with factory-installed safeties as follows:

a. Antirecycle timer.

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- b. High-pressure cutout.
- c. Low-pressure cutout or loss of charge switch.
- d. Internal thermal-overload protection.
- e. Freezestat to stop compressor if water-loop temperature in refrigerant-to-water heat exchanger falls below 38 deg.
- f. Condensate overflow switch to stop compressor with high condensate level in condensate drain pan.
- g. Water-coil, low-temperature switch.
- h. Air-coil, low-temperature switch.
- 6. Refrigerant Piping Materials: ASTM B 743 copper tube with wrought-copper fittings and brazed joints.
- 7. Pipe Insulation: Refrigerant minimum 2" thick, flexible elastomeric insulation on piping exposed to airflow through the unit. Maximum 25/50 flame-spread/smoke-developed indexes according to ASTM E 84.
- 8. Refrigerant Metering Device: Thermal-expansion valve.
- 9. Refrigerant Metering Device: Dual-port, thermal-expansion valve to allow specified operation with entering-water temperatures from 40 to 100 deg F.
- H. Filters: Disposable, pleated type, 2" thick and with a minimum efficiency reporting value (MERV) of 8 according to ASHRAE 52.2.

I. Controls:

- 1. The automatic controls system shall be DDC type fully building automation system (BAS). The BAS system shall monitor and control all hvac functions, for example, the water source heat pump units as well as the central pumps and central water system (flow proof, return/supply water temp, pumps, boilers, fluid cooler.) The BAS contractor is responsible for all communication wiring and programming required to connect the two buildings together.
- 2. Basic Unit Control Modes and Devices (independent of BAS)
 - a. Dehumidification mode.

- b. Unit shutdown on high or low refrigerant pressures.
- c. Unit shutdown on low water temperature.
- d. Low- and high-voltage protection.
- e. Overcurrent protection for compressor and fan motor.
- f. Random time delay, three to ten seconds, start on power-up.
- g. Time delay override for servicing.
- h. Control voltage transformer.
- i. Water-coil freeze protection (selectable for water or antifreeze).
- j. Air-coil freeze protection (check filter switch).
- k. Condensate overflow shutdown switch.
- I. Option to reset unit at thermostat or disconnect.
- m. Fault type shall be retained in memory if reset at thermostat.
- n. Automatic intelligent reset. Unit shall automatically reset five minutes after trip if the fault has cleared. Should a fault reoccur three times sequentially, lockout requiring manual reset occurs.
- o. Ability to defeat time delays for servicing.
- Light-emitting diodes (LED) to indicate high pressure, low pressure, low voltage, and high voltage.
- q. The low-pressure switch SHALL NOT be monitored for the first 90 seconds after a compressor start command to prevent nuisance safety trips.
- r. Remote fault-type indication at thermostat.
- s. Selectable 24-V dc or pilot duty dry contact alarm output.
- t. 24-V dc output to cycle a motorized water valve with compressor contactor.
- u. Electric heat output to control two stages of electric heat (emergency heat).
- v. Service test mode for troubleshooting and service.
- w. Unit-performance sentinel warns when the heat pump is running inefficiently.

Thermostat:

- a. Wall-Mounted Sensor
 - 1) Provided by BAS contractor.
- J. Electrical Connection: Single point electrical connection.

2.02 HOSE KITS

- A. General: Hose kits shall be designed for operating temperatures from 40-100deg F . Tag hose kits to equipment designations.
- B. Hose: Length 2' braided stainless steel, complete with adapters,. Minimum 1" diameter, equal to water-source, heat-pump connection size.
- C. Isolation Valves: Two-piece, bronze-body ball valves with stainless-steel, standard-port ball and stem with normal pipe thread (NPT) connections, and galvanized-steel lever handle. Provide valve for supply and return. If balancing device is combination shutoff type with memory stop, the isolation valve may be omitted on the return.
- D. Strainer: Provide Y strainer that is recommended and approved by the WSHP manufacturer.
- E. Balancing Device: Automatic balancing valve. Mount in return connection. Include meter ports to allow flow measurement with differential pressure gage.

- 1. Automatic balancing valve, factory set to operate within 10 percent of design flow rate over a 40:1 differential pressure range.
- F. Motorized Water Valve: Slow-acting, 24-V dc, with NPT connections.

2.03 PUMP MODULE (Only If Scheduled)

- A. Minimum 1/6-hp, 230-V, single-phase pump rated to move at least specified gpm at 30' head pressure.
- B. Include pump module hose kit with thread to barb fittings, hose, and hose clamps.
- C. Three-way brass shut-off/flushing/purging valve.
- D. Include controls to operate pump as required to maintain room temperature and ventilation set points.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Equipment Mounting:

- 1. Install water-source heat pumps on stand or suspended all-thread with RIS vibration isolation at every factory provided connection point.
- 2. Support all ductwork independently of the WSHP. Attach to WSHP with flexible duct connections. Use rubberized fabric with 2" isolation.
- Connect ductwork to WSHP units using only flexible connections that are not "maxed out" and will not allow vibration to transmit from the WSHP unit to the ductwork.
- B. Install wall-mounting thermostats.
- C. Connect supply and return hydronic piping to heat pump using stainless steel hose braided (flexible) hose kits.
- D. Connect heat-pump condensate drain pan to indirect waste connection with condensate trap of adequate depth to seal against fan pressure. Install cleanouts in piping at changes of direction. Use 3' flexible drain connection to the drain pan. Install auxiliary drain pans under units where shown on plans.
- E. Connect supply and return ducts to water-source heat pumps with flexible duct connectors.
- F. Install electrical devices furnished by manufacturer but not specified to be factory mounted.
- G. Install piping adjacent to machine to allow service and maintenance.
- H. Ground equipment according to specifications "Grounding and Bonding for Electrical Systems."

3.02 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections:
 - 1. After installing water-source heat pumps and after electrical circuitry has been energized, test units for compliance with requirements.
 - 2. Inspect for and remove shipping bolts, blocks, and tie-down straps.
 - 3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - 4. Perform water and airflow test and balance on entire hydronic system.
 - 5. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- B. Heat pumps will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

END OF SECTION 23 8146

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SECTION 26 0943 NETWORK LIGHTING CONTROLS

SPECIFICATION SECTION ADDED ADDENDUM 01 - 03.02.18

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Network lighting controls.
- B. Related Information:
 - 1. Division 26 Section "Wiring Devices".
 - Division 26 Section "Lighting Control Devices" for occupancy sensors, photoelectric sensors.
 - 3. Division 26 Section "LED Interior Lighting" for light fixtures controlled by network lighting control systems.

1.2 REFERENCES

- A. California Energy Commission (CEC):
 - 1. CEC CCR Title 24, Part 6: California Energy Efficiency Standards for Residential and Nonresidential Buildings, California's Appliance Efficiency Program: Listed lighting control devices.
- B. National Fire Protection Association (NFPA):
 - 1. NFPA 70 National Electrical Code.
- C. Underwriters Laboratories (UL)
 - 1. UL 508 Industrial Control Equipment

1.3 SYSTEM DESCRIPTION

- A. Web Accessible, network connected, lighting dimming system utilizing control software, central signal microprocessor, lighting control panel including integrated branch circuit protection, and solid-state light dimming modules and relays.
- B. System Components: System includes the following addressable components:
 - 1. Keypad controls.
 - 2. Touch panel controls.
 - 3. Window treatment controls.
 - 4. Occupancy sensors.
 - 5. Daylight compensating lighting controls.
 - 6. Audio visual equipment controls.
 - 7. Interface to facility-wide room management.
 - 8. Interface to building automation system interface.
- C. System Communication:
 - 1. Native communication with building wide Audio Visual Systems.

- D. Unified System Integration Controller supports native communication protocol utilized by the AV control system.
 - Communication protocol adaptors or translation interfaces between AV control system and lighting control system will not be accepted.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product required for complete network lighting control system, demonstrating compliance with requirements.
- B. Shop Drawings: Indicated the following:
 - 1. Schematic diagram showing complete network lighting control system and accessories.
 - 2. Circuits and emergency circuits with capacity and phase, control zones, load type and voltage per circuit.

1.5 INFORMATIONAL SUBMITTALS

- A. Buy American Act certificate.
- B. CEC CCR Title 24 appliance efficiency listing certification.
- C. Sample of manufacturer's warranty.
- D. Load Measurement Report: Submit field test report of completed installation.

1.6 CLOSEOUT SUBMITTALS

- A. Operating and maintenance instructions.
- B. Record drawings.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualification: Manufacturer of network lighting controls with minimum [five] years record of satisfactory manufacturing and support of components comparable to basis of design system.
- B. Source Requirements: Provide Network Dimming Controls through a single source from a single manufacturer.
- C. Manufacturer Qualifications: Approved manufacturer of network lighting controls listed in this Section with minimum [five] years record of satisfactory manufacturing and support of components comparable to basis of design system.
 - 1. Approval of Comparable Products: Submit the following in accordance with project substitution requirements, within time allowed for substitution review:
 - a. Product data, including certified independent test data indicating compliance with requirements.
 - b. Samples of each component.
 - c. Sample submittal from similar project.
 - d. Project references: Minimum of 5 installations not less than 5 years old, with Owner and Architect contact information.

- e. Sample warranty.
- Substitutions following award of contract are not allowed except as stipulated in Division 01 General Requirements.
- 3. Approved manufacturers must comply separate requirements of Submittals Article.
- D. Electrical Components, Devices, and Accessories: UL listed and labeled.
- E. Regulatory Requirements: Provide components and systems that comply with requirements of the following:
 - 1. NFPA 70.
 - 2. Underwriters Laboratory (UL) standards.
 - 3. Applicable codes and regulations.
- F. Buy American Act Certification: Submit documentation certifying that products comply with provisions of the Buy American Act 41 U.S.C 10a 10d.
- G. California Appliance Efficiency Listing: Provide products that comply with provisions of CEC CCR Title 24, Part 6.

1.8 COORDINATION

- A. Coordinate dimming controls with systems and components specified in the following sections:
 - 1. Division 23 Section "Direct Digital Control Systems for HVAC".
 - 2. Division 25 Section "Facility Management and Control System (FMCS)".
 - 3. Division 26 Section "Wiring Devices".
 - 4. Division 26 Section "Lighting Control Devices".
 - 5. Division 26 Section "LED Interior Lighting".

1.9 PROJECT CONDITIONS

- A. Environmental Conditions Range:
 - 1. Temperature: 32 104 deg F (0 40 deg C).
 - 2. Relative Humidity: 10 90 percent, noncondensing.

1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of Network Lighting Controls that fails in materials or workmanship within the specified warranty period following substantial completion.
 - 1. Warranty Period: Touch screen display and overlay components: 90 days.
 - 2. Warranty Period: Disc drives and other moving parts, and power supplies: 1 year.
 - 3. Warranty Period: Other components, 3 years.
- B. Manufacturer's Extended Support Service: Extended telephone support: Unlimited period.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide products of Crestron Electronics, Inc., Rockleigh, NJ 07647, Phone (800)237-2041, Fax: (201)767-1903, www.crestron.com, or comparable products from a single manufacturer approved by Architect, with the following components and characteristics.

2.2 SYSTEM CHARACTERISTICS

- A. Web-accessible, network-connected programmable lighting control dimming system that receives digital or analog signals from addressable input devices, assembles signals at central signal processor, and distributes operating signals to addressable control devices that effect a change in state.
 - System utilizes electronic dimming modules incorporating mechanically latching relays for dimming and on-off switching; an automation control system that interprets input signals and issues output signals to devices effecting a change in state; and a built-in hub that provides 8 isolated segments, each supporting up to 3000 feet of cabling, and up to 25 networked devices on each segment.

2.3 NETWORK LIGHTING CONTROL PANELS

- A. Feed-Through Network Lighting Control Panel: Feed-through Type, No Branch Circuit Protection.
 - 1. Basis of Design Product: Crestron Green Light Express Architectural Dimming Control Panel Model No. GLPD-DIM-FT.
 - 2. Branch Circuit Protection: Pass through type utilizing separate branch circuit protection indicated on Drawings.
 - 3. Electronic Dimming types: Electronic Low-Voltage, 0-10 Volt 4-Wire Dimmable Driver.
 - 4. Switching Relay Types: Arc-less high inrush, lifetime rated minimum 1,000,000 on/off cycles, with air gap off protection.
 - 5. Emergency Override: Remote override capability.

2.4 DIMMING AND SWITCHING MODULES

- A. Dimming and Switching Module: Incandescent, magnetic low voltage, neon/cold or 2 and 3-wire fluorescent dimming module.
 - 1. Basis of Design Product: Crestron Dimmer Module Model GLX-DIM.
 - 2. Module Description: Field replaceable dimming modules include incandescent, magnetic low voltage, and 2 and 3-wire fluorescent dimming, with high inrush, zero-cross arcless, magnetic latching, and air gap off relays rated for 1,000,000 on/off lifetime cycles of switching. Module features individual circuit load indicator, mechanical and emergency override and manual line test features. Emergency signal from phase loss sensor overrides the preset state of the dimming control; and changes it to the preprogrammed emergency condition. Phase-synchronous Detection Circuitry eliminates lamp flicker.
 - 3. Channels of Switching: 6 channels of dimming with high inrush, zero-cross arcless, magnetic latching air gap off relays rated for 1,000,000 on/off lifetime cycles of switching.
 - 4. Maximum Load.
 - a. Lighting: 16A per channel.

- B. Dimming and Switching Module: 0–10V fluorescent ballast dimming module.
 - Basis of Design Product: Crestron Electronic Power Switching Module Model GLXP-DIMFLV8.
 - 2. Module Description: Field replaceable 0-10V fluorescent ballast dimming modules include 8 channels of 4-wire, fluorescent dimming with high inrush, zero-cross arcless, mechanical latching, air gap off relays rated for 1,000,000 on/off lifetime cycles of switching. Module features individual circuit load indicator, mechanical and emergency override and manual line test features. Emergency signal from phase loss sensor overrides the preset state of the dimming control; and changes it to the preprogrammed emergency condition. Phase-synchronous Detection Circuitry eliminates lamp flicker.
 - 3. Channels of Switching: 8 channel of dimming with switching relays.
 - 4. Maximum Dimmable Load.
 - a. 0-10V Fluorescent Lighting: 16A per channel.

2.5 AUTOMATION CONTROL PROCESSOR

- A. Control Processor: Web accessible, network connected, programmable control processor using manufacturer's software, manufacturer's software applications, and manufacturer's database of industry drivers to work with manufacturer's entire line of lighting dimmers, shade controllers, occupancy sensors, photocells, keypads, contactors, door strikes, touch panels, and thermostats; and provide for the integration of industry devices through eight isolated relays and eight Versiports. Memory expansion up to 4GB Compact Flash Card. SNMP support, with built-in firewall, NAT, and router. 4-wire bus providing 24 VDC power to network devices, with two independent sensing inputs. In separate enclosure.
 - 1. Basis of Design: Crestron Professional Automation Control System Model PAC2.
 - 2. Mounting: Modular enclosure-mounted, in array indicated
- B. Control Processor: Integrates photocell sensors, occupancy sensors, and other low voltage controls, devices, and subsystems through multiple control interfaces with control network. Enables addition of relays, 8 separate I/O ports in 2 isolated segments supporting up to 20 devices each, serial COM ports, DTMF interfaces, and shade controllers. MMC memory expansion card slot. 4-wire bus providing 24 VDC power to network devices, with two independent sensing inputs. In separate enclosure.
 - 1. Basis of Design: Crestron Professional Automation Mini-Control System Model PAC2M.
 - 2. Mounting: Modular enclosure-mounted in array indicated

2.6 ACCESSORIES

- A. Touchpanel: Controls lighting and AV settings along with other modular dimming controller functions.
 - 1. 7 inch active-matrix color LCD touch screen 1024 by 600 WSVGA resolution display.
 - a. Basis of design: Crestron TSW-760 Touchpanel.
 - 2. 16-bit color graphics, and dual-window HD video, HDTV, and high-resolution RGB streaming multimedia, IP intercom, and web browsing capabilities. Dynamic graphics and text capability. Enables custom control screen programming.
 - 3. Video display: Scalable display on touchpanel screen.

- 4. Pushbutton Controls: 12 engraved backlit tactile pushbuttons for volume, channel, and on-screen menu navigation and programmable functions, snap-on front bezel button cover.
- 5. Mounting Kit: Wall mounting kit with power, wired Ethernet and CAT5 video connectivity, with back box and trim ring.
- 6. Powerpack: 24VDC.
- 7. Color: White
- B. Remote Keypad Controls: Field-configurable remote keypad with auto-adjusting backlight illuminating replaceable, engravable programmable buttons in number indicated, with white LED indicators, configured to fit in standard single-gang box.
 - 1. Basis of Design: Crestron, Cameo Series Keypad Model C2N-C- Series.
 - 2. Color: As selected from manufacturer's full range of minimum 12 colors.
 - 3. Faceplates: **DECORA STYLE**
- C. Remote Keypad Controls: Remote keypad with backlight illuminating replaceable, engravable buttons in number indicated, with amber LED indicators, configured to fit in standard singlegang box.
 - 1. Basis of Design: Crestron, Designer Series Keypad Model CNX- Series.
 - 2. Faceplates: **DECORA STYLE**
- D. Remote Keypad Controls: Remote keypad with replaceable, engravable buttons in number indicated, with red LED indicators, 3W, configured to fit in standard single-gang box.
 - 1. Basis of Design: Crestron, Decorator Series Keypad Model C2N-D Series.
 - 2. Faceplates: **DECORA STYLE**
- E. Power Supply: 50W, 24 V regulated power supply with two 4-pin network connectors, fuse-protected.
 - 1. Basis of Design: Crestron Cresnet Power Supply Model GLA-PWS-50.

2.7 CONDUCTORS AND CABLING

- A. Power Supply Side of Remote-Control Power Sources: Comply with requirements of Division 26 Section "Low-Voltage Electrical Power Conductors."
- B. UTP Cable: 100-ohm, UTP. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444 and NFPA 70 for the following types:
 - 1. Communications Control Cable, Non-Plenum Rated: 22 AWG data pair stranded bare copper, and 18 AWG power pair stranded bare copper, Type CM.
 - a. Basis of Design Product: Crestron CRESNET-NP.
 - 2. Communications Control Cable, Plenum Rated: 22 AWG data pair, stranded bare copper and 18 AWG power pair, stranded bare copper, Type CMP, complying with NFPA 262.
 - a. Basis of Design Product: Crestron CRESNET-P.
 - 3. Communications High-Power Control Cable, Non-Plenum Rated: 22 AWG stranded bare copper data pair, and 12 AWG stranded bare copper power pair, Type CM.

a. Basis of Design Product: Crestron CRESNET-HP-NP.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Prior to installation, examine work area to verify that conditions for commencing installation comply with manufacturer's requirements.

3.2 INSTALLATION

- A. Comply with requirements of Division 26 Sections "Low-Voltage Electrical Power Conductors and Cables" for low voltage wiring and digital data transmission wiring.
- B. Comply with NECA 1.
- C. Do not install network lighting controls until space is enclosed, HVAC systems are running, and wet work in space is complete.
- D. Size conductors in accordance with network lighting control manufacturer's instructions. Install network lighting controls in accordance with manufacturer's instructions.
- E. Grounding: Provide electrical grounding in accordance with NFPA 70.
- F. Provide panelboard schedule in pocket provided in panel doors.

3.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Quality Control: Pay for the services of a manufacturer's authorized service representative to inspect installation from the commencement of work of this section, make routine inspections during the installation and perform testing recommended by the manufacturer.
- B. Provide the services of the manufacturer to commission network lighting controls and provide a minimum of 4 call-back visits after the date of substantial completion.
- C. Provide written manufacturer's inspection, commissioning, testing reports and call-back reports.

3.4 SOFTWARE

A. Install and program software to meet the Owner's requirements. Provide current licenses, and backup copies of the software for the Owner's records.

3.5 SYSTEM STARTUP

- A. Provide manufacturer's system commissioning.
- B. Switch each load on and off with manual line test feature of the dimming control modules before installing processors.

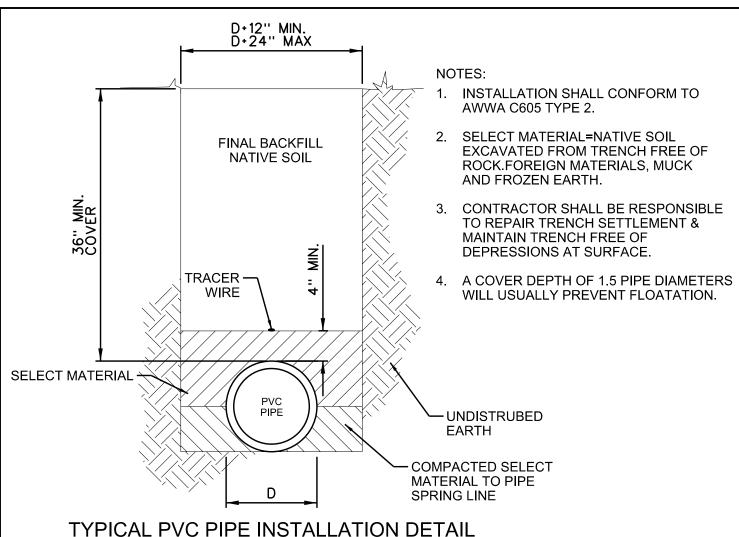
3.6 ADJUSTING

A. Within 12 months of the date of Substantial Completion provide onsite service to adjust the system to account for actual occupied conditions.

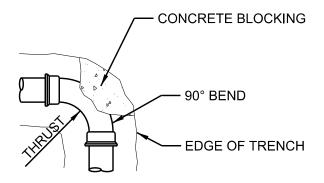
3.7 CLOSEOUT ACTIVITIES

- A. Training: Train Owner's personnel to operate, maintain, and program network power switching systems. Allow for a minimum of trips to the jobsite to provide additional training as needed.
 - 1. Furnish set of approved submittals and record drawings of actual installation for Owner's personnel in attendance at training session.

END OF SECTION 26 0943



TYPICAL PVC PIPE INSTALLATION DETAIL N.T.S.



90° BEND THRUST BLOCK DETAIL N.T.S.



DATE:3/02/2018	S	CALE:	
FILE NO.:		SHEET:] PIPF
SURVEY BY:	[DRAWN BY: SCB] ' '' 느
	CIVIL/ENVIRONMENTAL ENGINEERING 8179 East. 41st Street. TULSA, OKLAHOMA 74145 PHONE:(918)749-5800 FAX:(918)749-5858		CHE
	C A NO 1371 - EXPI		EILE: ADDENDUM

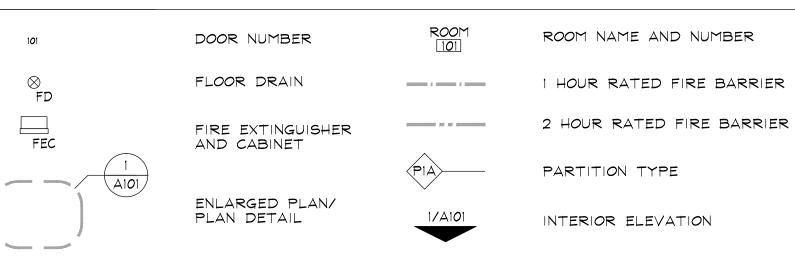
PIPE INSTALLATION DETAILS

CHEROKEE NATION CAPITOL BUILDING

FILE: ADDENDUM 01

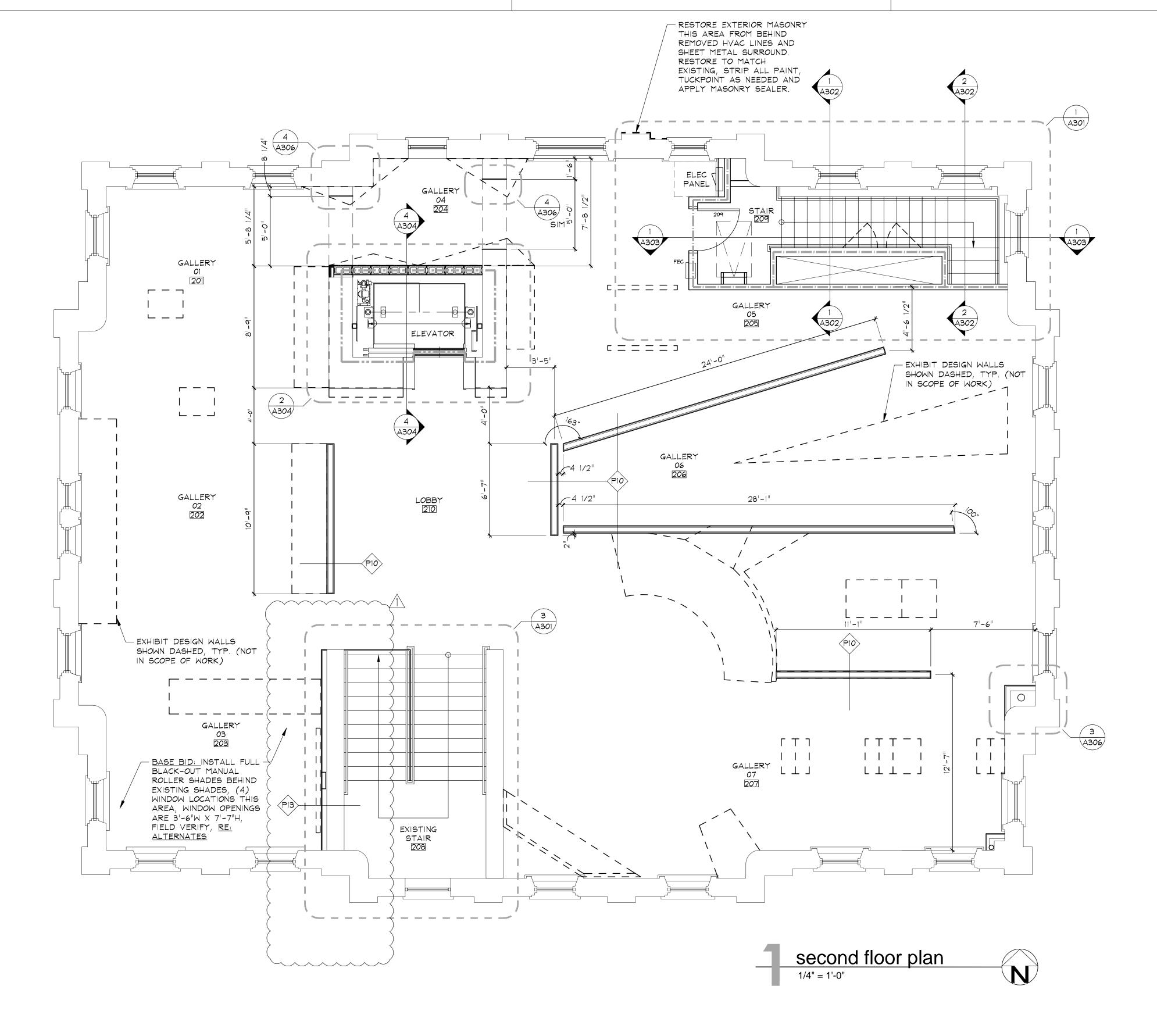
FLOOR PLAN NOTES PLAN LEGEND GENERAL NOTES *****PRIOR TO DEMOLITION, REVIEW THE OWNER PROVIDED ENVIRONMENTAL REPORTS

- PROVIDED IN THE PROJECT MANUAL FOR ASBESTOS, LEAD AND MOLD. ALL HAZARDOUS MATERIAL TO RECEIVE REMEDIATION PER EPA AND LOCAL JURISDICTION STANDARDS BY LICENSED ABATEMENT CONTRACTORS. *****
- 2. CONTRACTOR TO CONTROL CLEANING TO PREVENT DIRT OR DUST FROM LEAVING THE CONSTRUCTION AREA AND INFILTRATING AREAS NOT INVOLVED IN THE PROJECT.
- 3. THE CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR THE EXISTING STRUCTURE, FACILITIES, AND IMPROVEMENTS ADJOINING THE AREA UNDER THIS CONTRACT. ANY DISTURBANCE OR DAMAGE TO ADJOINING PROPERTY RESULTING DIRECTLY OR INDIRECTLY FROM THE CONTRACTOR'S OPERATIONS SHALL BE PROMPTLY RESTORED, REPAIRED, OR REPLACED TO THE SATISFACTION OF OWNER AT THE CONTRACTOR'S EXPENSE.
- 4. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF OLD AND NEW WORK DURING THE CONSTRUCTION PERIOD. SHOULD DAMAGE OCCUR, THE CONTRACTOR SHALL REPAIR AT THE CONTRACTOR'S OWN EXPENSE.
- 5. INSULATION SCHEDULE: NEW WALL PARTITIONS - GLASS FIBER BATT
- FIRE RATED WALLS MINERAL WOOL
- SUSPENDED CEILINGS GLASS FIBER BATT FIRE RATED SUSPENDED CEILINGS - MINERAL WOOL
- BASEMENT/ CRAWLSPACE CEILING SPRAY FOAM • ATTIC - BLOW-IN CELLULOSE
- 6. CONTRACTOR TO PROVIDE CONDUIT AND PULL STRINGS TO ALL DATA/ PHONE/ SURVEILLANCE & SPEAKER LOCATIONS. CABLING AND EQUIPMENT FOR DATA/ PHONE/ SURVEILLANCE & SPEAKER LOCATIONS TO BE PROVIDED BY OWNER. RE: ELECTRICAL
- UNLESS NOTED OTHERWISE, ALL WALL PARTITIONS TO BE PARTITION TYPE
- 2. PROPOSED REMODEL DOES NOT CHANGE USE PER BUILDING CODE CLASSIFICATION.
- 3. REFERENCE MECHANICAL FOR REQUIRED FIRE DAMPER LOCATIONS.



SECTION

SECTION DETAIL



Notes:

- 1. SCALE. DO NOT SCALE DRAWINGS. 2. CODES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES.
- 3. DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, FRAMING CONDITIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES. ANY AND ALL COSTS ASSOCIATED WITH WORK OR REPAIR THEREOF PERFORMED FOLLOWING DISCOVERY OF DISCREPANCIES, UNFORESEEN CONDITIONS, OR DEFICIENCIES WILL BE BORNE BY THE CONTRACTOR.
- 4. DIMENSIONS. ALL INTERIOR DIMENSIONS ARE TO THE CENTERLINE OF FRAMING, TO THE CENTERLINE OF OPENINGS OR TO THE INSIDE FINISH FACE, UNLESS NOTED OTHERWISE.
- 5. INSTALLATION. ALL MATERIALS, SUPPLIES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PER APPLICABLE CODES AND REQUIREMENTS. THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 6. MATERIAL STORAGE. MATERIALS STORED ON SITE SHALL BE PROTECTED FROM DAMAGE BY MOISTURE, WIND, SUN, ABUSE, THEFT OR ANY OTHER HARMFUL AFFECTS. REFERENCE
- SPECIFICATIONS FOR FURTHER STORAGE REQUIREMENTS. 7. SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS OR SAFETY PROGRAMS USED TO PROVIDE A SAFE WORKING ENVIRONMENT ON THE JOB SITE. REFERENCE SPECIFICATIONS FOR SAFETY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING AND BRACING DURING ALL PHASES OF CONSTRUCTION.
- 8. PERMITS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS INCLUDING PAYING TERO FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSPECTIONS AND A CERTIFICATE OF OCCUPANCY. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL THE PERMITTING AUTHORITIES.
- 9. CONTRACT DOCUMENTS. THESE CONTRACT DOCUMENTS ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED WITHOUT HIS OR HER WRITTEN CONSENT. THESE CONTRACT DOCUMENTS ARE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. THE OWNER SHALL NOT REUSE OR PERMIT THE REUSE OF THESE CONTRACT DOCUMENTS EXCEPT BY MUTUAL AGREEMENT IN WRITING. THE CONTRACT DOCUMENTS SHALL NOT BE USED FOR ISSUE OF A BUILDING PERMIT OR ANY CONSTRUCTION UNLESS SIGNED AND SEALED BY THE ARCHITECT.
- 10. RECYCLE BINS TO BE PROVIDED FOR WORKERS DURING CONSTRUCTION.



GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

△ ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

SECOND FLOOR PLAN

PROJECT NUMBER 1604-003 02.09.18

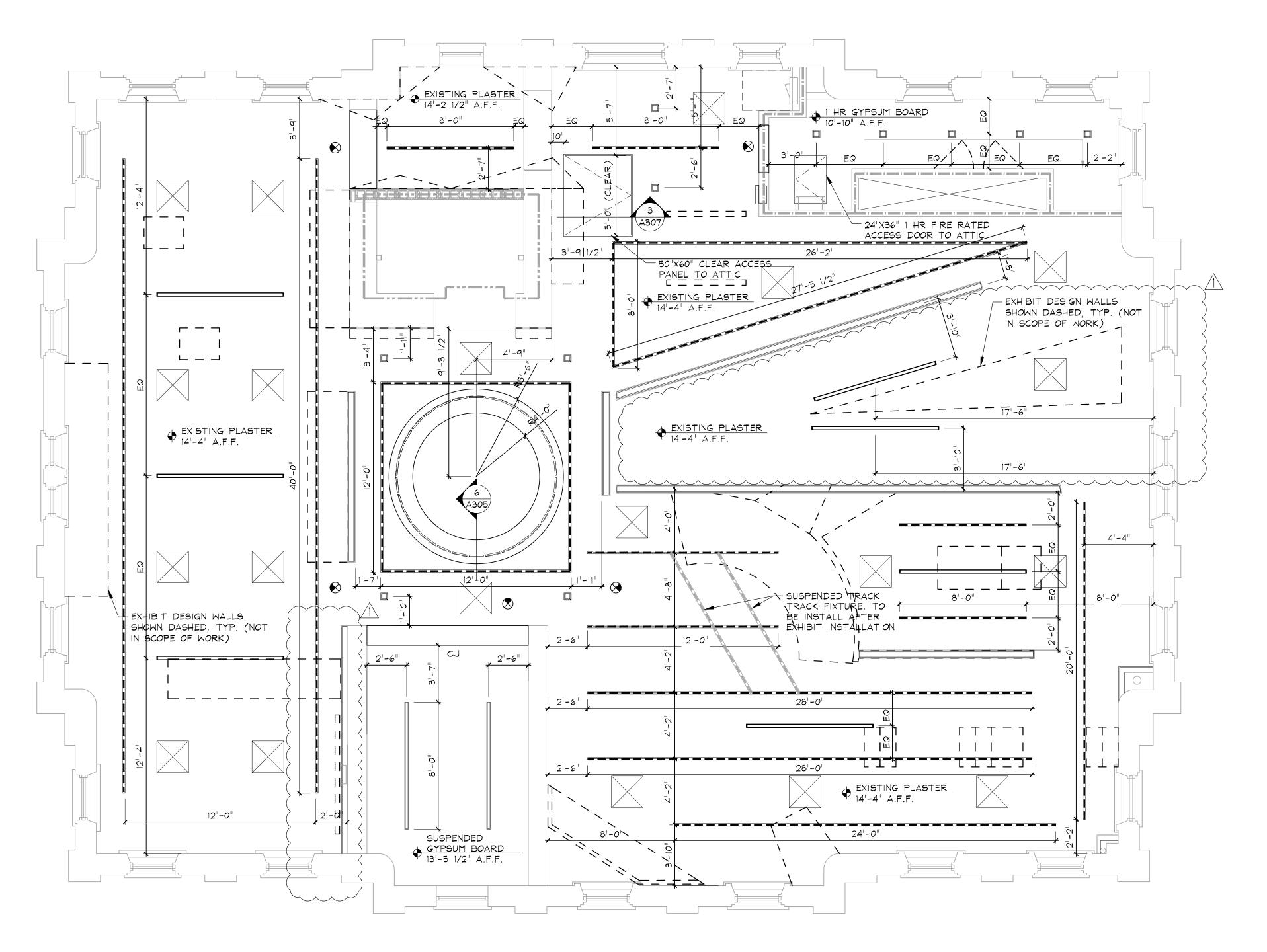
SHEET NO. A103

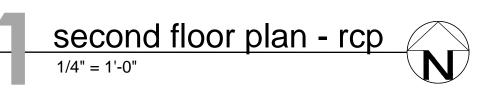
PLAN LEGEND GENERAL NOTES 1. GYPSUM BOARD CEILING AT STORAGE 02 106, STAIR 108, VESTIBULE 113 & STAIR 209 CONTRACTOR TO PROVIDE CONDUIT AND PULL STRINGS TO ALL DATA/ PHONE/ 1 HOUR RATED FIRE BARRIER RECESSED LED FIXTURE 2X4 LED FLAT PANEL TO BE I HOUR FIRE RATED. SURVEILLANCE & SPEAKER LOCATIONS. CABLING AND EQUIPMENT FOR DATA/ PHONE/ RE: ELECTRICAL SURVEILLANCE & SPEAKER LOCATIONS TO BE PROVIDED BY OWNER. RE: ELECTRICAL 2 HOUR RATED FIRE BARRIER 2. CEILINGS AT FIRE RATED LOCATIONS TO BE (2) LAYERS 5/8" TYPE X GYPSUM BOARD. EXIT SIGN 3. CAN LIGHTS AT FIRE RATED CEILINGS TO BE INSTALLED WITH I HOUR FIRE RATED 2X2 LED FLAT PANEL COVER, PROVIDE SAFELITE FIRE RATED CEILING LIGHT COVER BY SPI OR SIMILAR RE: ELECTRICAL DIFFUSER CONTROL JOINT IN CJPRODUCT AT ALL FIRE RATED CEILING LIGHT FIXTURE LOCATIONS. RE: MECHANICAL GYPSUM CEILING 4. ALL PENETRATIONS IN FIRE RATED CEILINGS TO RECEIVE FIRE CAULKING TO ACHIEVE LED LINEAR RECESSED CONSISTENT FIRE RATING. SLOT FIXTURE SPOT ELEVATION RE: ELECTRICAL 5. REFERENCE MECHANICAL FOR REQUIRED FIRE DAMPER LOCATIONS. SURFACE MOUNTED ______ 6. INSULATION SCHEDULE: LINEAR TRACK FIXTURE • NEW WALL PARTITIONS - GLASS FIBER BATT RE: ELECTRICAL • FIRE RATED WALLS - MINERAL WOOL • SUSPENDED CEILINGS - GLASS FIBER BATT SURFACE MOUNTED SECTION DETAIL • FIRE RATED SUSPENDED CEILINGS - MINERAL WOOL LINEAR LED FIXTURE

RE: ELECTRICAL

• BASEMENT/ CRAWLSPACE CEILING - SPRAY FOAM

• ATTIC - BLOW-IN CELLULOSE





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 PERMIT OR ANY CONSTRUCTION UNLESS SIGNED AND
 SEALED BY THE ARCHITECT.
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GENERAL INFORMATION:
- CODE: 2015 IEBC, 2015 IBC
- USE GROUP: A-3
- SPRINKLER STATUS - TO BE INSTALLED
- FIRE ALARM - TO BE INSTALLED

△ ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



02.09.18

ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

A106

SECOND FLOOR
REFLECTED CEILING PLAN
DATE PROJECT NUMBER SHEET

TI-1 FLOOR TILE MFR: DALTILE SIZE: 12"X24" COLOR: IRONCRAFT RUSTED BRONZE IC14 NOTES: ASSEMBLY PER F112-13 TCNA TILE INSTALLATION UNDERLAYMENT OI: CEMENTITIOUS BOND COAT UNDERLAYMENT 02: WATERPROOF MEMBRANE UNDERLAYMENT 03: 1" BONDED MORTAR BED UNDERLAYMENT 04: MORTAR BED BOND COAT UNDERLAYMENT 05: BONDED CRACK ISOLATION MEMBRANE (IF NEEDED)

TI-2 WALL TILE MFR: DALTILE SIZE: 12"X24" COLOR: PLAZA NOVA BEIGE HAZE PN95 BASE COVE: S-43C9 3X12 TOP TRIM: SCHLUTER QUADEC NOTES: ASSEMBLY PER W245-13 TCNA TILE INSTALLATION UNDERLAYMENT OI: CEMENTITIOUS BOND COAT UNDERLAYMENT 02: COATED GLASS MAT WATER-RESISTANT GYPSUM BACKER BOARD

TI-3 WALL ACCENT TILE MFR: DALTILE SIZE: 1X1 MOSAIC COLOR: METALLICA OXIDIZED COPPER SS51 NOTES: ASSEMBLY PER W245-13 TCNA TILE INSTALLATION UNDERLAYMENT 01: CEMENTITIOUS BOND COAT UNDERLAYMENT 02: COATED GLASS MAT WATER-RESISTANT GYPSUM BACKER BOARD

PAINT (ALL PAINT TO BE ZERO VOC)

PT-1 TYPICAL WALLS (RE: FINISH PLAN) MFR: BENJAMIN MOORE COLOR: MONTEREY WHITE HC-27 FINISH: FLAT

PT-2 ALL MOLDINGS AND TYPICAL CEILING (RE: FINISH PLAN) MFR: BENJAMIN MOORE COLOR: DECORATOR'S WHITE PM-3 FINISH: MOLDINGS - SATIN; CEILING - FLAT

PT-3 SELECT WALLS (RE: FINISH PLAN) MFR: BENJAMIN MOORE COLOR: WHIPPLE BLUE HC-152 FINISH: FLAT

MOOD

WD-1 TYPICAL FLOORING SIZE: 3/4" x 5" SPECIES: WHITE OAK UNDERLAYMENT 01: PRIME SLAB AND INSTALL 15LB ASPHALT FELT UNDERLAYMENT 02: VAPOR RETARDER UNDERLAYMENT 03: NOISE REDUCTION UNDERLAYMENT SUBFLOORING: 1/2" PLYWOOD DECKING UNDERLAYMENT 04: 15LB ASPHALT FELT NOTES: STAIN AND SEAL FINISH WOOD (ST-1) WD-2 FLOORING AT GALLERY 07 (207) RE: FINISH PLAN \$ A109

FOR RADIAL PATTERN DESIGN SIZE: 3/4" x 3 1/4" SPECIES: WHITE OAK UNDERLAYMENT 01: PRIME SLAB AND INSTALL 15LB ASPHALT FELT UNDERLAYMENT 02: VAPOR RETARDER UNDERLAYMENT 03: NOISE REDUCTION UNDERLAYMENT SUBFLOORING: 1/2" PLYWOOD DECKING UNDERLAYMENT 04: 15LB ASPHALT FELT NOTES: STAIN AND SEAL FINISH WOOD (ST-2)

WD-3 WOOD ACCENT AT MILLWORK SIZE: VARYING WIDTHS 2"-5", VARYING THICKNESS 1/4"-5/8" SPECIES: WHITE OAK TO MATCH FLOORING NOTES: STAIN AND SEAL FINISH WOOD (ST-2) NOTES: RE:MILLWORK DRAWINGS FOR LOCATIONS, NO EXPOSED NAILS TO BE ALLOWED, INFO DESK (M.I.I) WOOD ACCENT TO BE ON RADIUS

WALL PROTECTION

CG: CORNER GUARD MFR: C/S TYPE: 3" SM SERIES COLOR: 265 FOG

SOLID SURFACING

SS-1: SOLID SURFACE MFR: CORIAN BY DUPONT COLOR: VANILLA THICKNESS: 1/2" EDGE PROFILE: 1/4" RADIUS AND 45 MITERED

STAIN

ST-1 TYPICAL STAIN COLOR MFR: BONA AB COLOR: AMBERSEAL FINISH: NONA TRAFFIC HD - SATIN

ST-2 SELECT STAIN COLOR - RADIAL FLOORING, MILLWORK AND HANDRAILS MFR: BONA AB COLOR: INTENSESEAL FINISH: NONA TRAFFIC HD - SATIN

TERRAZZO

TZ-1: RESINOUS MATRIX TERAZZO FLOORING MFR: TERRAZZCO EZPOUR EPOXY 158

SIZE: 3/8" NOMINAL COLOR: ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE UNDERLAYMENT 01: FLEXIBLE MEMBRANE 528 UNDERLAYMENT 02: BONDING AGENT 159 UNDERLAYMENT 03: MOISTURE MITIGATION SYSTEM 950 SUBFLOORING: SELF-LEVELING CONCRETE TOPPING TO PROVIDE FLUSH FINISH AT TOP OF TERRAZZO LEVEL

applied finish legend nts

PLASTER REFINISHING SCHEDULE

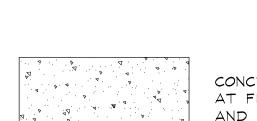
RESTORE REMAINING PLASTER PER THE NATIONAL PARK SERVICE TECHNICAL PRESERVATION BRIEF 21 - REPAIRING HISTORIC PLASTER WALLS AND CEILINGS.

EXISTING EXTERIOR PLASTER/ MASONRY WALLS AND CONCRETE VAULT WALLS REMOVE ALL DAMAGED PLASTER TO PROVIDE SOLID BASE FOR NEW FINISH COATS. PATCH AND REPAIR ALL REMAINING PLASTER, INSTALL NEW WIRE LATHE AS NEEDED

FILL ANY HAIRLINE CRACKS WITH A PATCHING COMPOUND.

PROVIDE (3) LAYERS OF FINISH SKIM COAT TO ENTIRETY OF WALLS INDICATED BY DASHED LINE IN FINISH PLAN.

****REFERENCE UNIT PRICES IN PROJECT MANUAL FOR ADDITIONAL BIDDING REQUIREMENTS FOR PLASTER RENOVATION BEYOND BASE BID.****



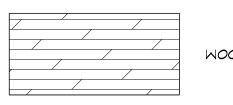
CONCRETE TOPPING AT FIRST FLOOR, STAIN AND SEAL

BASE ROOM ROOM FLOOR MALL CEILING CEILING NO TRIM PAINT - RE: PLAN FOR COLOR STAINED AND SEALED CONCRETE PAINT ENTRY VESTIBULE WELCOME/ LOBBY PAINT - RE: PLAN FOR COLOR STORAGE 01 PAINT - RE: PLAN FOR COLOR PAINT SEALED CONCRETE OFFICE PAINT - RE: PLAN FOR COLOR PAINT CHANGING GALLERY PAINT - RE: PLAN FOR COLOR PAINT 105 STORAGE 02 PAINT - RE: PLAN FOR COLOR PAINT NONE 106 WOMEN'S TI-2/ TI-3 - RE: ELEVATIONS PAINT NONE 107 PAINT - RE: PLAN FOR COLOR TR3 TRI PAINT 108 STAIR PAINT TR3 CORRIDOR PAINT - RE: PLAN FOR COLOR TI-2/ TI-3 - RE: ELEVATIONS PAINT MEN'S MECHANICAL PAINT - RE: PLAN FOR COLOR SEALED CONCRETE PAINT - RE: PLAN FOR COLOR TRI EXIT DISCHARGE LOBBY | PAINT - RE: PLAN FOR COLOR STAINED AND SEALED CONCRETE PAINT TRI TR3

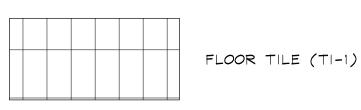
* FINISH SCHEDULE NOTES:

. USE W.R. GYP. BD. AT ALL WET LOCATIONS, RESTROOMS AND MECHANICAL ROOMS.



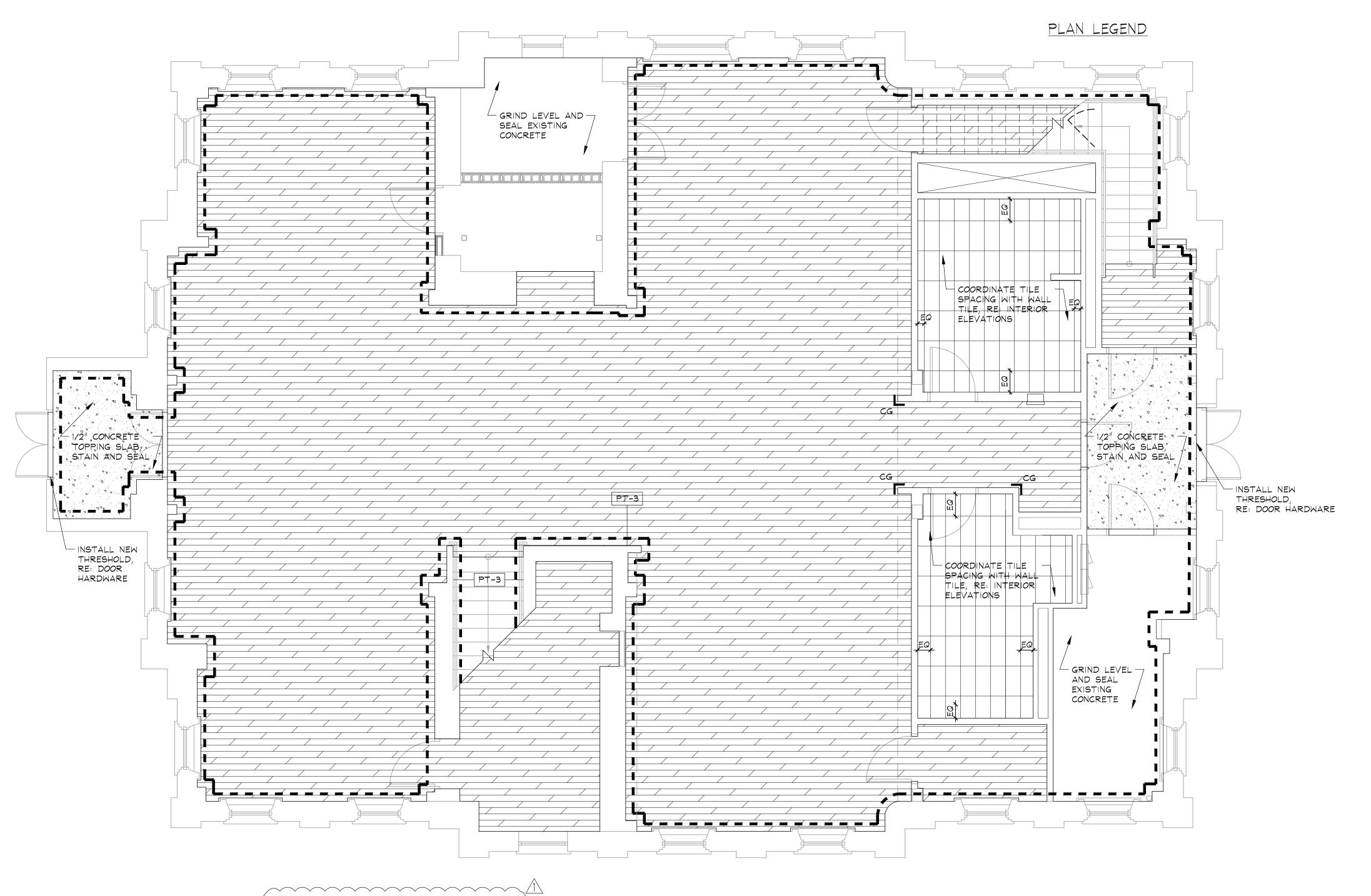


WOOD FLOORING (WD-1),



CORNER GUARD (CG)

DASHED LINE INDICATES EXISTING PLASTER WALLS TO RECEIVE PLASTER SKIM COAT



* APPLIED FINISH LEGEND NOTES:

1. ALL MANUFACTURER'S LISTED ARE FOR BASIS OF DESIGN, RE: SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS THAT MAY BE INCORPORATED INTO

RECOMMENDATION PRIOR TO INSTALLATION OF FINISHES.

2. PREP ALL SURFACES PER MANUFACTURER'S

SEAL ENTIRETY OF FIRST FLOOR EXISTING CONCRETE SLAB WITH RADON SEAL PLUS PENETRATING CONCRETE SEALER, BY RADONSEAL OR APPROVED EQUAL. 2. SEAL ALL FIRST FLOOR PENETRATIONS TO BASEMENT AND CRAWLSPACE WITH EASY-POUR RADON SEALANT BY NECOFLEX. RADON PRO PGS SEALANT BY RADONAWAY, OR APPROVED EQUAL.

* FIRST FLOOR RADON SEALANT NOTES:

* FLOOR FINISH PLAN NOTES:

1. ALL WALL PAINT COLORS TO BE PT-1 UNLESS NOTED OTHERWISE 2. REFERENCE ADDITIVE ALTERNATES IN PROJECT MANUAL

FOR EXTERIOR PAINTING SCOPE.

3. REFERENCE UNIT PRICES IN PROJECT MANUAL FOR ADDITIONAL BIDDING REQUIREMENTS FOR PLASTER RENOVATION BEYOND BASE BID.

ground floor finish plan



1. SCALE. DO NOT SCALE DRAWINGS. 2. CODES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES.

3. DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, FRAMING CONDITIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES. ANY AND ALL COSTS ASSOCIATED WITH WORK OR REPAIR THEREOF PERFORMED FOLLOWING DISCOVERY OF DISCREPANCIES, UNFORESEEN CONDITIONS, OR DEFICIENCIES WILL BE BORNE BY THE CONTRACTOR.

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SPECIFICATIONS FOR FURTHER STORAGE REQUIREMENTS. 7. SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS OR SAFETY PROGRAMS USED TO PROVIDE A SAFE WORKING ENVIRONMENT ON THE JOB SITE. REFERENCE SPECIFICATIONS FOR SAFETY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING AND BRACING DURING ALL PHASES OF CONSTRUCTION.

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GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

△ ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464

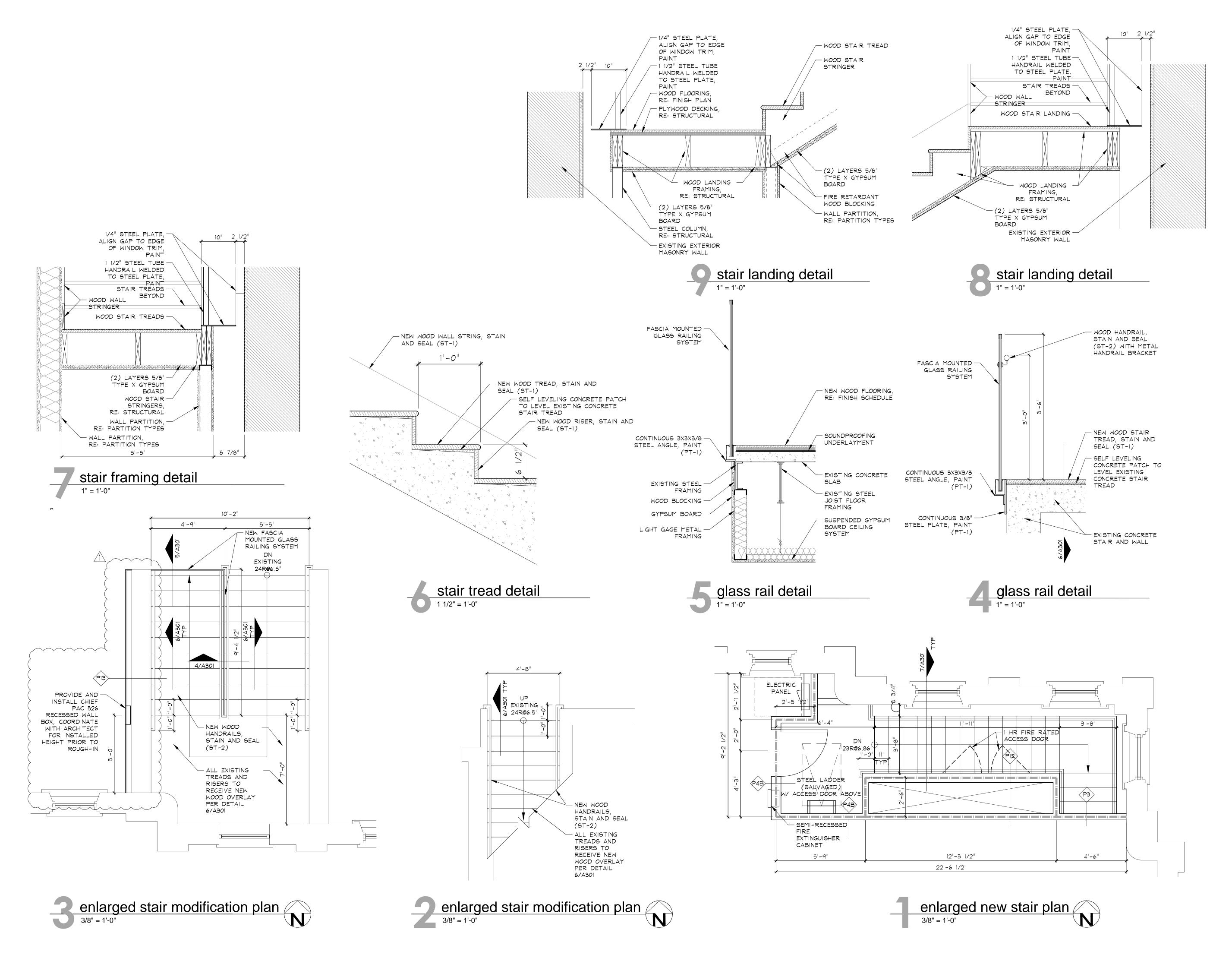


ONE architecture Tulsa, Oklahoma 74120

GROUND FLOOR FINISH PLAN AND SCHEDULE

DATE PROJECT NUMBER 1604-003 02.09.18

SHEET NO. A107



Notes:

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 CODES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES.
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- SPECIFICATIONS FOR FURTHER STORAGE REQUIREMENTS.

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- FIRE ALARM - TO BE INSTALLED

△ ADDENDUM 01 - 03.02.18

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CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464

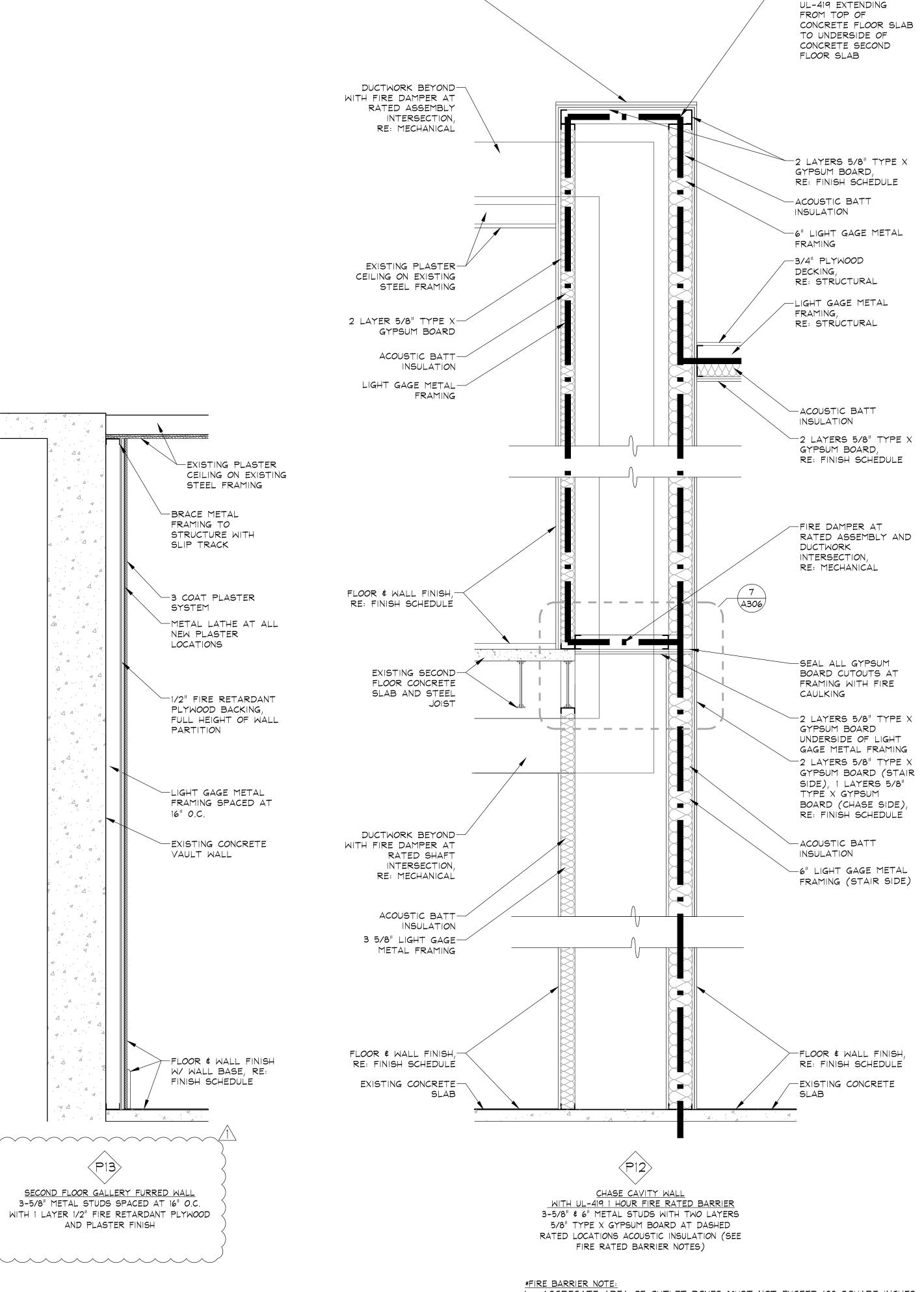


ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

STAIR PLANS AND DETAILS

DATE PROJECT NUMBER 02.09.18 1604-003

SHEET NO. **A301**



3/4" PLYWOOD DECKING-

-EXISTING STEEL JOISTS AND CONCRETE SLAB AT SECOND FLOOR FRAMING SUSPENDED GYPSUM-BOARD CEILING SYSTEM -BRACE METAL FRAMING TO SECOND FLOOR STRUCTURE WITH SLIP TRACK GYPSUM BOARD,-RE: FINISH SCHEDULE LIGHT GAGE METAL FRAMING -SUSPENDED GYPSUM 10" BOARD CEILING SYSTEM WITH ACOUSTIC BATT INSULATION, RE: REFLECTED CEILING PLAN GALLERY RESTROOM GYPSUM BOARD,-RE: FINISH SCHEDULE 1/2" FIRE RETARDANT-PLYWOOD, FULL HEIGHT OF GALLERY LIGHT GAGE METAL FRAMING SPACED AT 12" O.C. ACOUSTIC BATT-INSULATION FLOOR # WALL FINISH FLOOR # WALL FINISH-RE: FINISH SCHEDULE W/ WALL BASE, RE: FINISH SCHEDULE -EXISTING CONCRETE SLAB GROUND FLOOR GALLERY EXHIBIT WALL 3-5/8" METAL STUDS SPACED AT 12" O.C WITH ONE LAYER 5/8" GYPSUM BOARD EACH

SIDE, 1 LAYER 1/2" FIRE RETARDANT PLYWOOD (GALLERY SIDE) AND ACOUSTIC INSULATION

AGGREGATE AREA OF OUTLET BOXES MUST NOT EXCEED 100 SQUARE INCHES

-DASHED LINE

RATED BARRIER,

ASSEMBLY TO BE

INDICATES 1 HOUR FIRE

- PER 100 SQUARE FEET OF WALL AREA. ALL PENETRATIONS TO RECEIVE FIRE CAULKING.
- 3. ELECTRICAL BOXES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".
- 4. ANY DUCTWORK THAT PENETRATES THROUGH FIRE RATED CONSTRUCTION TO BE PROTECTED ACCORDING TO IBC SECTION 717 REQUIREMENTS.

*WALL PARTITION NOTE: 1. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR METAL STUD SIZING PER MAXIMUM SPAN & GAUGE SCHEDULE.

2. USE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS AND

3. AT WALL TILE LOCATIONS, USE GYPSUM TILE BACKER BOARD FULL HEIGHT OF

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-EXISTING PLASTER

STEEL FRAMING

-BRACE METAL

STRUCTURE WITH

FRAMING TO

SLIP TRACK

-5/8" GYPSUM BOARD

1/2" FIRE RETARDANT

PLYWOOD BACKING

BOTH SIDES, FULL HEIGHT OF WALL

-ACOUSTIC BATT

-LIGHT GAGE METAL

FLOOR FINISH, NO

RE: FINISH SCHEDULE

-EXISTING CONCRETE

WALL BASE,

FLOOR SLAB

(P10)

SECOND FLOOR GALLERY EXHIBIT WALL

3-5/8" METAL STUDS SPACED AT 12" O.C.

LAYER 1/2" FIRE RETARDANT PLYWOOD EACH

SIDE AND ACOUSTIC INSULATION

partition types

3/4" = 1'-0"

WITH ONE LAYER 5/8" GYPSUM BOARD,

FRAMING SPACED AT

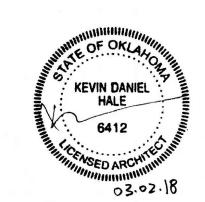
BOTH SIDES

PARTITION

INSULATION

12" O.C.

CEILING ON EXISTING



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△ ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464

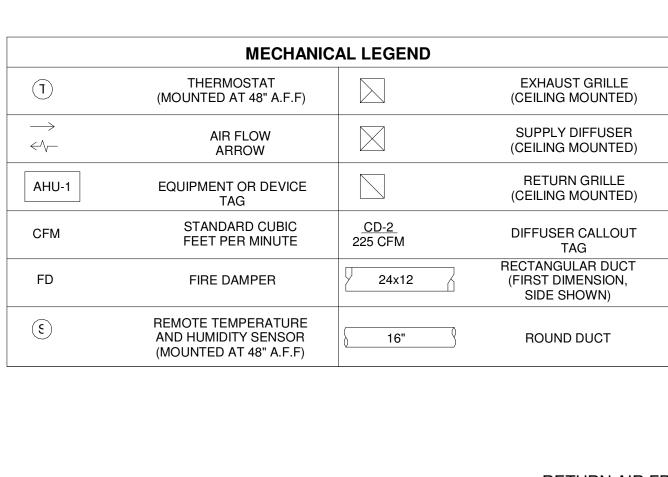


ONE architecture

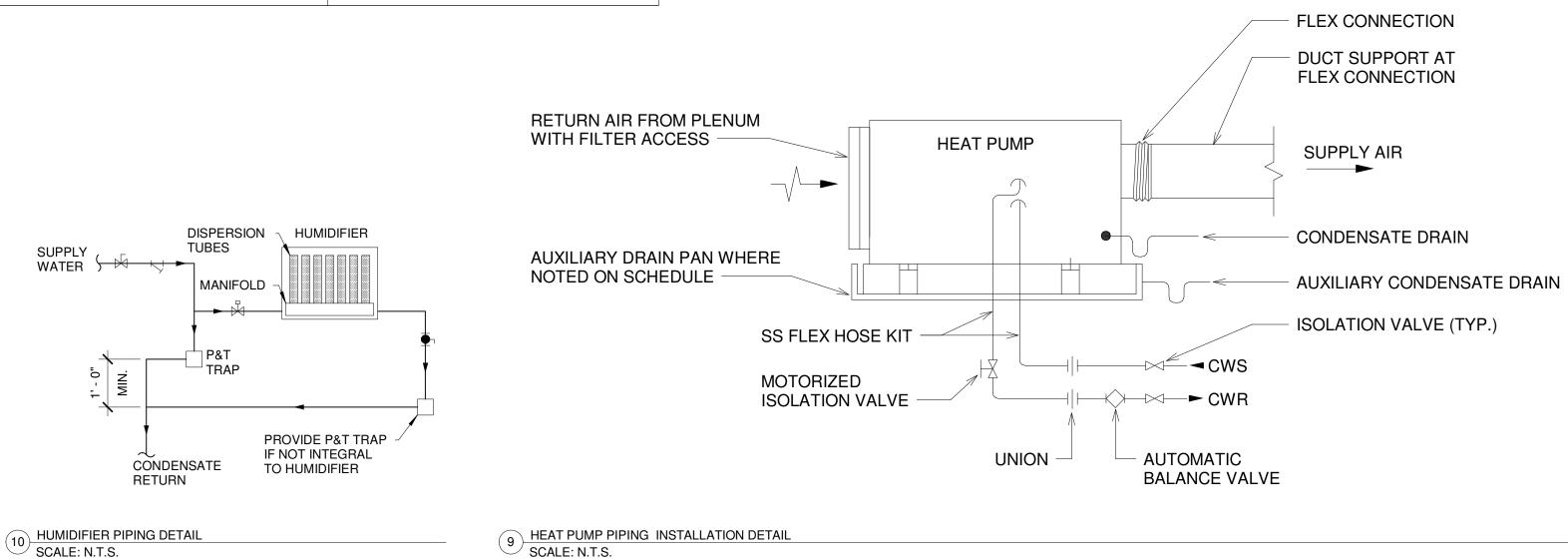
DATE

PROJECT NUMBER 1604-003 02.09.18

SHEET NO. A403

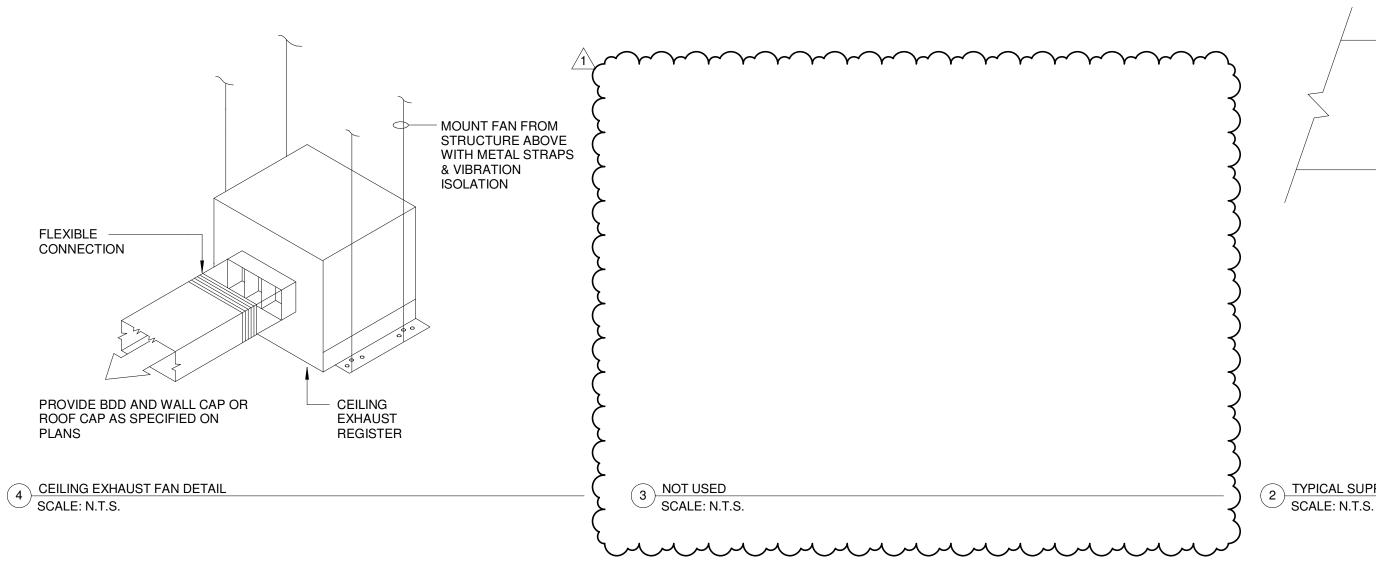


7 FIRE DAMPER INSTALLATION DETAIL 12" = 1'-0"



ROOF ROOF REFERENCE FLOOR PLANS FOR CONDENSATE LINE ROUTING INDOOR AIR HANDLER INDOOR AIR HANDLER THERMOSTAT (REFERENCE PLANS THERMOSTAT FOR EXACT LOCATION) (REFERENCE PLANS FOR EXACT LOCATION) OUTDOOR, ROUTE REFRIGERANT GROUND-MOUNTED LINES IN WALL **CONDENSING UNIT FRONT VIEW** SIDE VIEW

VERTICAL AIR DUCT FASTEN MOUNTING ANGLES 16 GAUGE HOUSING (TYP.), FIRE DAMPER SLEEVE FOR DAMPER ONLY. MIN. 16 GAUGE 1-1/2"x1-1/2") FASTEN MOUNTING ANGLES - UNION FLOOR OR WALL RETURN AIR DUCT ON BACK SIDE OF DRAIN PAN OPEN TO RETURN AIR DUCT IN-ATMOSPHERE RETURN WALL TIGHT TO ONE RETURN SIDE BETWEEN STUDS REGISTER REGISTE **FULL SIZE** CONNECT DUCT TO OF DRAIN FIRE DAMPER WITH CONNECTIO SLIP "S" CONNECTION. ACCESS DOOR RETURN AIR **RETURN AIR** G.W.B. EACH DIMENSION **EQUAL TO FAN** STUD **NEGATIVE STATIC** PRESSURE **FINISH** FLOO 1. DAMPER ASSEMBLY INSTALLED IN AND FASTENED TO THE - APPROVED AIR **GAP HEIGHT** 2. MAINTAIN FULL DUCT SIZE. DAMPER HOUSING SHALL NOT LOCAL ROOF — DRAIN, FLOOR OBSTRUCT AIR FLOW, (TYPE "B"). SIDE VIEW **SIDE VIEW FRONT VIEW** 3. MOUNTING SHOWN IS VERTICAL INSTALLATION, HORIZONTAL DRAIN, (DUCT IN WALL BETWEEN STUDS) (DUCT ON BACK SIDE OF WALL) INSTALLATION IS SIMILIAR. OR FLOOR SINK 6 CONDENSATE DRAIN DETAIL



SCALE: N.T.S.

MAIN L.P. SUPPLY AIR DUCT **AIRFLOW** L.P. BRANCH DUCT HAND VOLUME DAMPER * - EQUALS WIDTH OF BRANCH DUCT UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12". TYPICAL SUPPLY AIR BRANCH DUCT TAKE-OFF

DUCTLESS SLIT SYSTEM WITH GROUND-MOUNTED CONDENSING UNIT

SCALE: N.T.S.

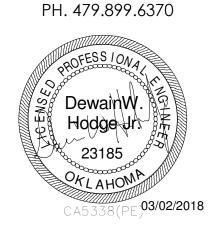
5 WALL MOUNTED RETURN AIR GRILLE DETAIL
1/4" = 1'-0" 45° TAKE-OFF FITTING CAN BE PURCHASED AS FLEXMASTER MODEL FLEX DUCT, MAX. 6'-0" "STO" OR EQUIVALENT. LENGTH FLEX DUCT SIZE SHALL MATCH NECK SIZE OF DIFFUSER. USE RIGID ELBOW TO MAKE FINAL CONNECTION TO DIFFUSER MAIN TRUCK SUPPLY DUCT DRAW BAND WITH 2" WRAP INSULATION SILICONE SEALER MANUAL BALANCE DAMPER AT ALL DIFFUSER RUNOUTS. DAMPER TO HAVE NYLON BEARING AND DAMPER LEVER TO **EXTEND OUTSIDE OF** DUCT WRAP. - CEILING DIFFUSER

TYPICAL DIFFUSER CONNECTION WITH INSULATION SCALE: N.T.S.

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HP ENGINEERING INC 5214 W. VILLAGE PARKWAY SUITE 120 ROGERS, AR 72758



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ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464

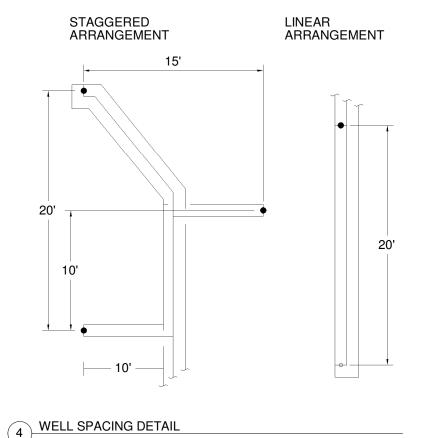


ONE architecture 1319 e. 6th st

MECHANICAL LEGEND AND **DETAILS**

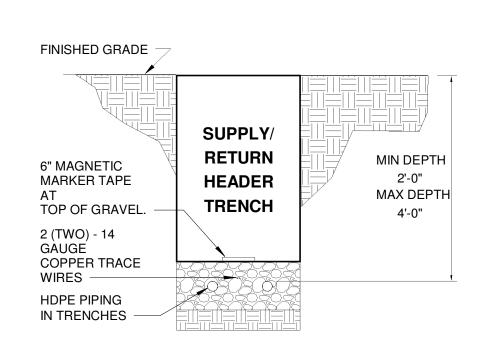
PROJECT NUMBER 1604-003 02/09/18

M102



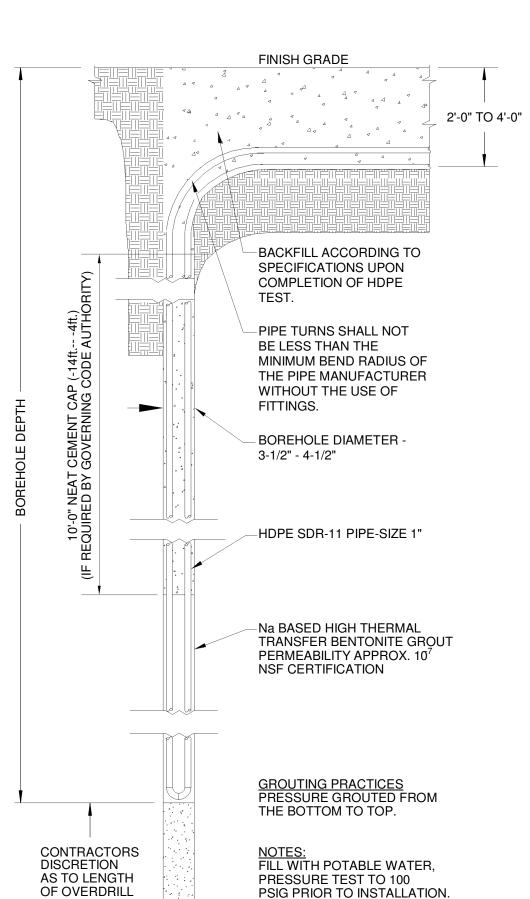
WELL FIELD	STATISTICS
NO. OF BOREHOLES	30
BOREHOLE SPACING	20'-0" MINIMUM
BOREHOLE DEPTH	300
UNICOIL LENGTH	600 + **
PIPE DIAMETER	1"
TOTAL FEET OF BORE	18,000

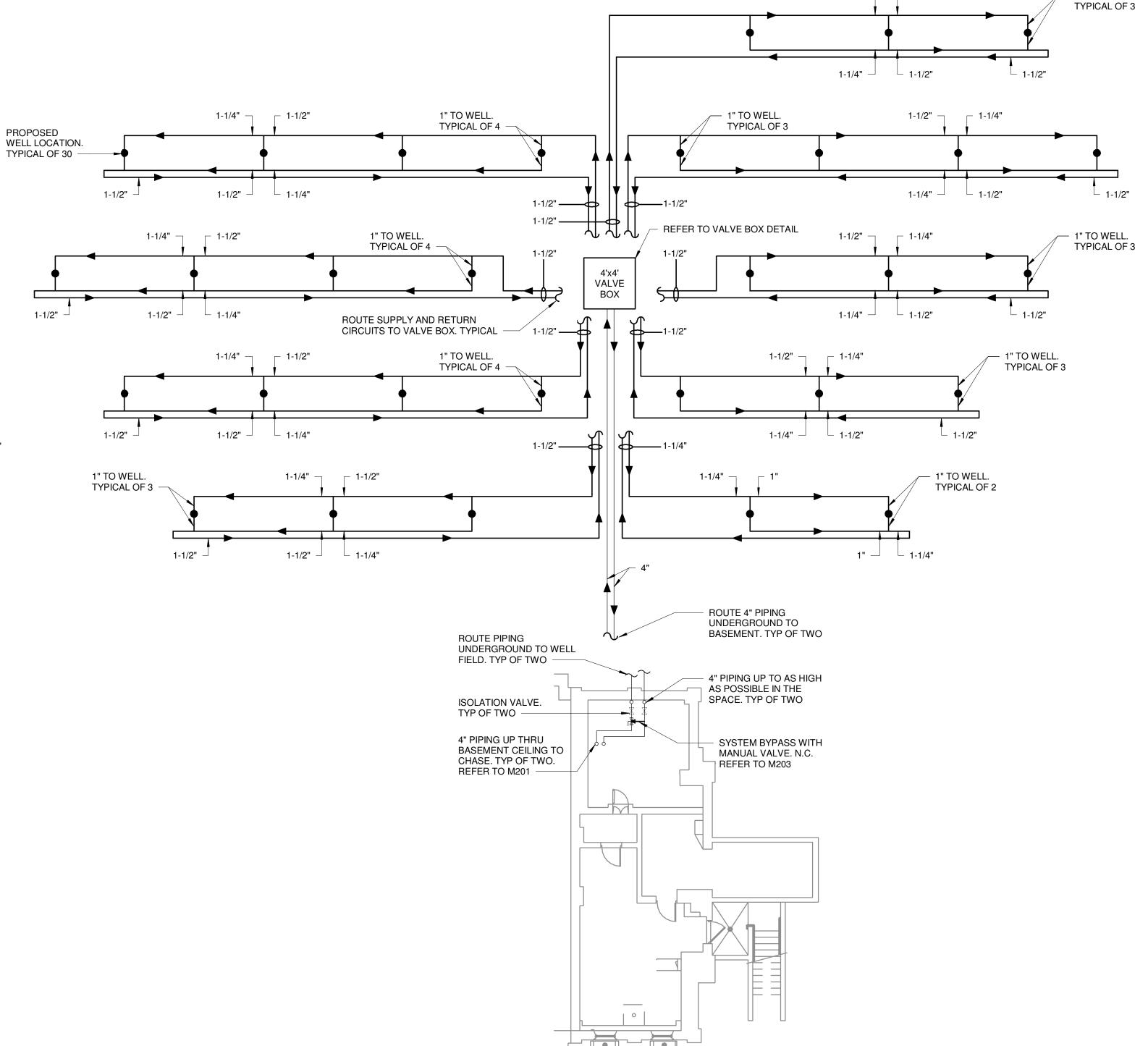
- * THERMAL CONDUCTIVITY TEST HOLE TO BE REUSED. COORDINATE TEST HOLE INTO BOREHOLE LAYOUT AS DEPICTED. ** PROVIDE ADDITIONAL PIPE AS REQUIRED TO CONNECT UNICOIL TO HEADERING SYSTEM.
- WELL FIELD STATISTICS SCALE: N.T.S.



HEADER TRENCH CROSS SECTION SCALE: N.T.S.

SCALE: N.T.S.





BOREHOLE & HEATER INSTALLATION DETAIL ✓ SCALE: N.T.S.

GEOTHERMAL WELL FIELD PLAN
1" = 10'-0"

NOTES;

1" TO WELL

- 1. ALL HORIZONTAL PIPING TO BE SIZED AT 4' OF WATER PER 100 FT. WITH NO PIPES SMALLER THAN 1-1/4". 2. MAINTAIN MINIMUM DISTANCE OF 5'-0" HORIZONTALLY BETWEEN BORE HOLE LOCATIONS AND WATER, GAS, ELECTRICAL, AND COMMUNICATION LINES UNLESS NOTED OTHERWISE BY THE LOCAL UTILITY PROVIDERS (OR) CONTRACTOR TO COORDINATE THE REQUIRED CLEARANCE DISTANCES WITH ALL LOCAL UTILITY PROVIDERS AND REFLECT THESE CLEARANCES IN THEIR COORDINATION DRAWINGS FOR THE ENGINEER'S REVIEW. 3. MAINTAIN MINIMUM DISTANCE OF 1'-0" VERTICALLY
- BETWEEN HORIZONTAL LINE RUNS ASSOCIATED WITH GEOTHERMAL SYSTEM AND WATER, GAS, ELECTRIC, AND COMMUNICATION LINES WHEN NECESSARY TO CROSS. 4. MAINTAIN MINIMUM DISTANCE OF 4'-0" HORIZONTALLY BETWEEN BORE HOLE LOCATIONS AND SANITARY SEWER. 5. MAINTAIN MINIMUM DISTANCE OF 2'-0" VERTICALLY BETWEEN HORIZONTAL LINE RUNS ASSOCIATED WITH
- GEOTHERMAL SYSTEM AND SANITARY SEWER WHEN NECESSARY TO CROSS. CENTER THE CROSSING SECTION SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAINS. 6. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL
- AND VERTICAL SEPARATION, DESIGN AND CONSTRUCT THE SANITARY SEWER EQUAL TO WATER PIPE, AND PRESSURE TEST IT TO ASSURE WATER TIGHTNESS OF JOINTS ADJACENT TO THE WATER LINES PRIOR TO BACKFILLING. NOTIFY THE GENERAL CONTRACTOR WHEN THIS SITUATION ARISES SO THAT THE REQUIREMENT CAN BE COORDINATED WITH CIVIL.
- 7. DO NOT INSTALL GEOTHERMAL SYSTEM LINES IN THE SAME TRENCH AS SANITARY SEWER AND SEWER SERVICE LINES. 8. GEOTHERMAL WELL FIELD LOCATION AND SIZE INDICATED IS SCHEMATIC ONLY. THE PLAN IS INTENDED TO SHOW THE DESIRED CONNECTIONS TO HEADER PIPES CLEARLY. UPON INSTALLATION, PIPES CAN BE COMBINED INTO TRENCHES OR OTHERWISE FIELD-MODIFIED TO FIT WITHIN ALOTTED PROPERTY BOUNDARIES.
- 9. COORDINATE PIPE ROUTING AND BORE HOLE LOCATIONS WITH ALL SITE/CIVIL CONSTRUCTION FEATURES AND UTILITIES.
- 10. ALL PIPING ENTRANCES INTO THE BUILDING AND ALL SLAB PENETRATIONS TO BE SLEEVED IN SCHEDULE 40 PVC. 11. ALL PIPING INSIDE THE RESIDENCE SHALL BE ROUTED IN THE PROVIDED CRAWLSPACE.
- 12. ALL WORK ON THIS SHEET, AND RELATED DETAILS WITHIN MECHANICAL PLANS, ARE TO BE PERFORMED BY PRE-QUALIFIED CONTRACTOR PER THE SPECIFICATIONS.
- 13. ALL SIZES ARE IN INCHES. 14. LOCATION OF WELLS ARE PROPOSED LOCATIONS ONLY. CONTRACTOR SHALL RELOCATE WELL GROUP AS
- REQUIRED SO THAT TEST WELL MAY BE REUSED. 15. ALL PIPING INSIDE THE BUILDING SHALL BE UNDER SLAB OR WITHIN MECHANICAL ROOMS. 16. ALL PIPING SHALL BE BETWEEN 2'-0" AND 4'-0" BELOW
- GRADE OR BELOW FINISHED FLOOR. COORDINATE ALL PIPING WITH SANITARY AND STORM DRAIN PIPING INSIDE AND OUTSIDE OF THE BUILDING.
- 17. ALL WORK ON THIS SHEET, AND RELATED DETAILS WITHIN MECHANICAL PLANS, TO BE DONE BY PRE-QUALIFIED CONTRACTOR PER THE SPECIFICATIONS. 18. ALC SIZES ARE TININCHES.

 19. GEOTHERMAL SYSTEM MUST BE INSTALLED PER THE IGSHPA STANDARDS FOR DESIGN AND INSTALLATION. IN THE EVENT THAT A CONFLICT OCCURS BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE IGSHPA STANDARDS MANUAL, THE IGSHPA STANDARDS MANUAL SHALL PREVAIL. 20. CONTRACTOR BUSINESS (NOT INDIVIDUAL) MUST BE

LISTED AS A MEMBER OF THE IGSHPA WEBSITE PRIOR TO

ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES. 3. DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, FRAMING CONDITIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR

1. SCALE. DO NOT SCALE DRAWINGS.

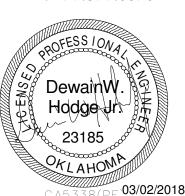
2. CODES. ALL WORK SHALL BE PERFORMED IN

Notes:

- POSSIBLE DEFICIENCIES. ANY AND ALL COSTS ASSOCIATED WITH WORK OR REPAIR THEREOF PERFORMED FOLLOWING DISCOVERY OF DISCREPANCIES, UNFORESEEN CONDITIONS, OR DEFICIENCIES WILL BE BORNE BY THE CONTRACTOR.
- 4. DIMENSIONS. ALL INTERIOR DIMENSIONS ARE TO THE CENTERLINE OF FRAMING, TO THE CENTERLINE OF OPENINGS OR TO THE INSIDE FINISH FACE, UNLESS NOTED OTHERWISE.
- 5. INSTALLATION. ALL MATERIALS, SUPPLIES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PER APPLICABLE CODES AND REQUIREMENTS. THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE
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HP ENGINEERING INC 5214 W. VILLAGE PARKWAY SUITE 120

ROGERS, AR 72758 PH. 479.899.6370



GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



02/09/18

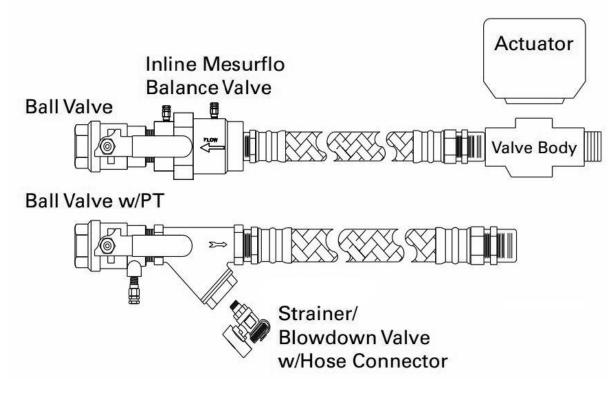
ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

GEOTHERMAL WELL FIELD PLAN

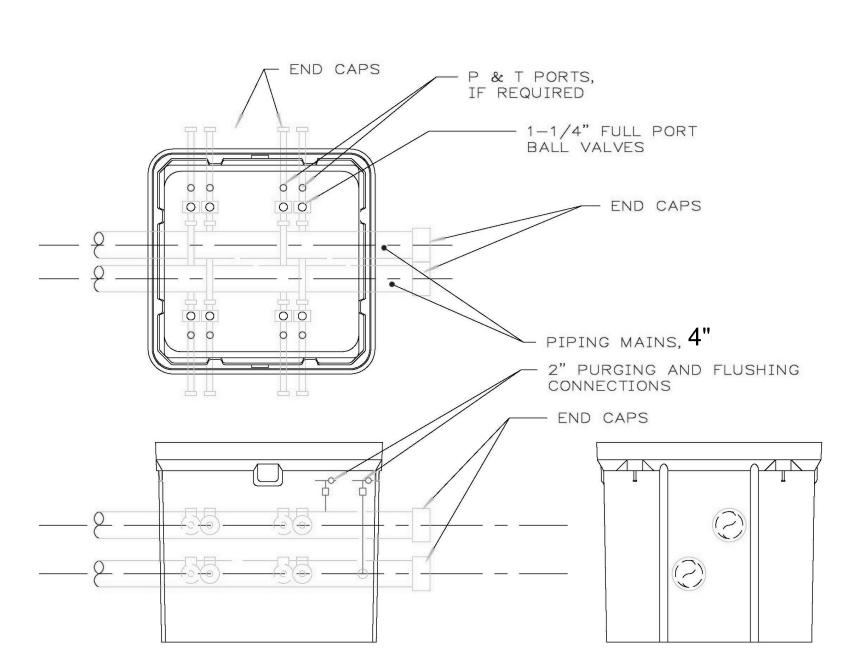
PROJECT NUMBER 1604-003

M200

SHEET NO.



6 WSHP AUTOMATIC BALANCE HOSE KIT SCALE: N.T.S.



BOX w/ PIPING and VALVES

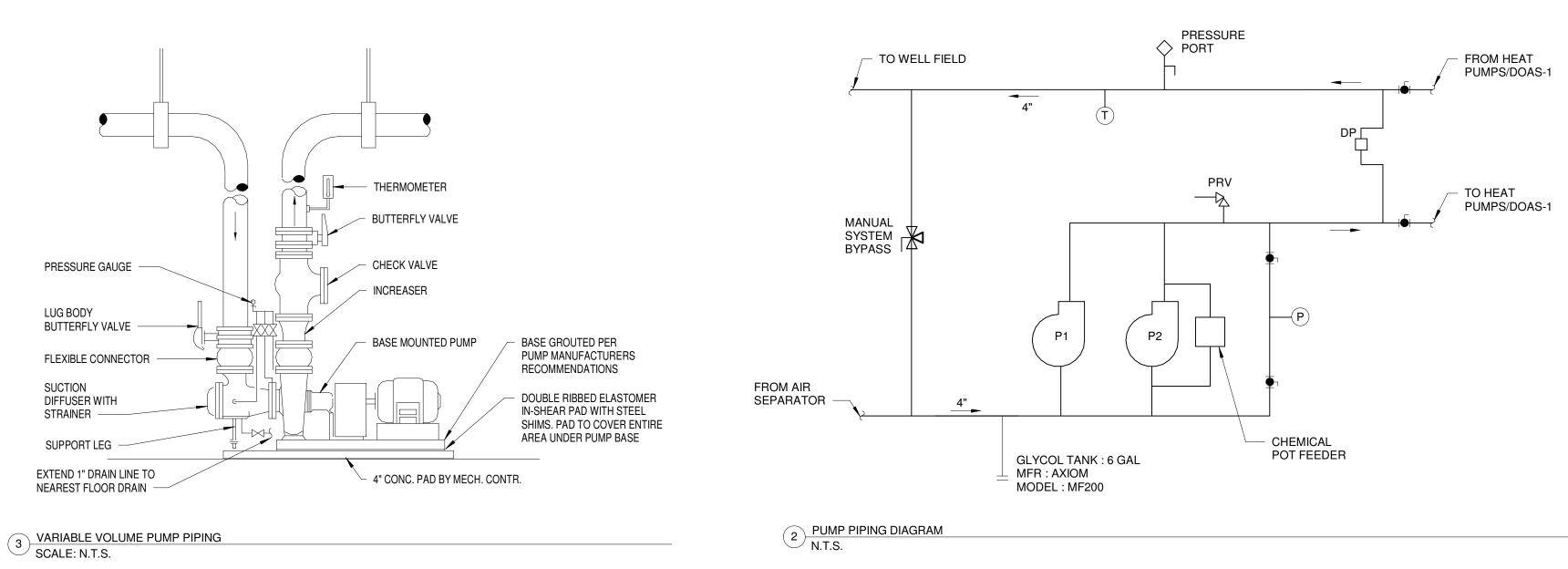
SPECIFICATIONS PIPING CONSTRUCTED FROM PE34Ø8 HDPE POLYETHYLENE PIPE AND HEAT FUSED MATERIALS, ALL MEETING ASTM D-3350 CELL CLASSIFICATION 345464C. THE MATERIAL HAS 1600 PSI HYDROSTATIC DESIGN BASIS AT 73°F PER ASTM D-2837 AND IS LISTED IN THE MANUFACTURERS NAME IN PPI TR4 AS A PE34Ø8 COMPOUND. POLYETHYLENE HDPE PIPE IS MANUFACTURED IN ACCORDANCE WITH ASTM D-3035, POLYETHYLENE FITTINGS ARE MANUFACTURED IN ACCORDANCE WITH ASTM D-2683 FOR SOCKET FUSION FITTINGS, ASTM D-3261 FOR BUTT FUSION FITTINGS, AND ASTM F-1055 FOR ELECTROFUSION FITTINGS, AND ASTM F-1924, SECTION 3.1.6.1 FOR MECHANICAL FITTINGS. BOXES ARE AS MANUFACTURED BY QUAZITE, WITH SOLID BOTTOMS, MODEL PG4848DA48. COVER IS HEAVY DUTY UNITS W/ W6x12 WIDE FLANGE BEAM W/ 6-BOLTS, DESIGNED FOR 15,000 #, TESTED TO 22,500#, ANSI TIER 15 TEST VALVES VALVES ARE BALL VALVES, BY KEROTEST POLYBALL CONSTRUCTED FROM PE-3408 POLYETHYLENE MATERIAL INCLUDING VALVE MAIN BODY, AND END PIECES. VALVE BODY IS A FULL-PORTED DESIGN, IT OPERATES SMOOTHLY AND SEALS BUBBLE TITE. THE STEM IS "BLOW-OUT PROOF' SEALS, INCLUDING THE BALL, STEM, AND WEATHER SEALS ARE MADE FROM SPECIALLY COMPOUNDED NITRILE FOR ELASTICITY AND TOUGHNESS. THE ACTUATOR IS MADE FROM POLYPROPYLENE FOR STRENGTH AND IMPACT RESISTANCE. THE ENTIRE DESIGN IN ALL SIZES HAS BEEN QUALIFIED TO ASME B16.40, ASTM D-2513, AND THE CODE OF FEDERAL REGULATIONS, PART 192. TESTING WAS PER-

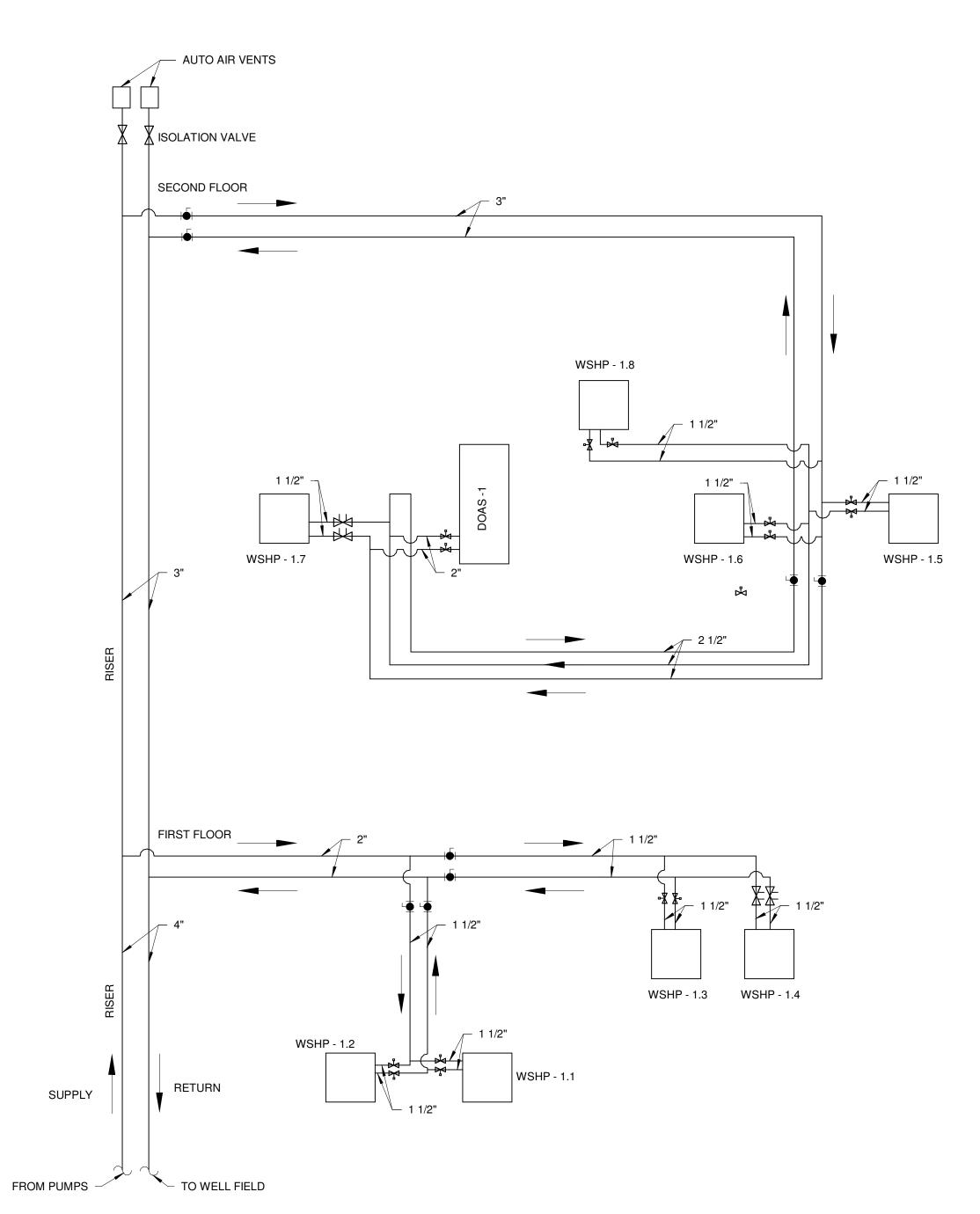
FORMED IN CONJUNCTION WITH AN INDEPENDANT AGENCY.

PETE'S PLUG: WATTS BRASS 1/2" PETE'S PLUG

MODEL ØØØ8513

5 WELL FIELD VALVE BOX SCALE: N.T.S.



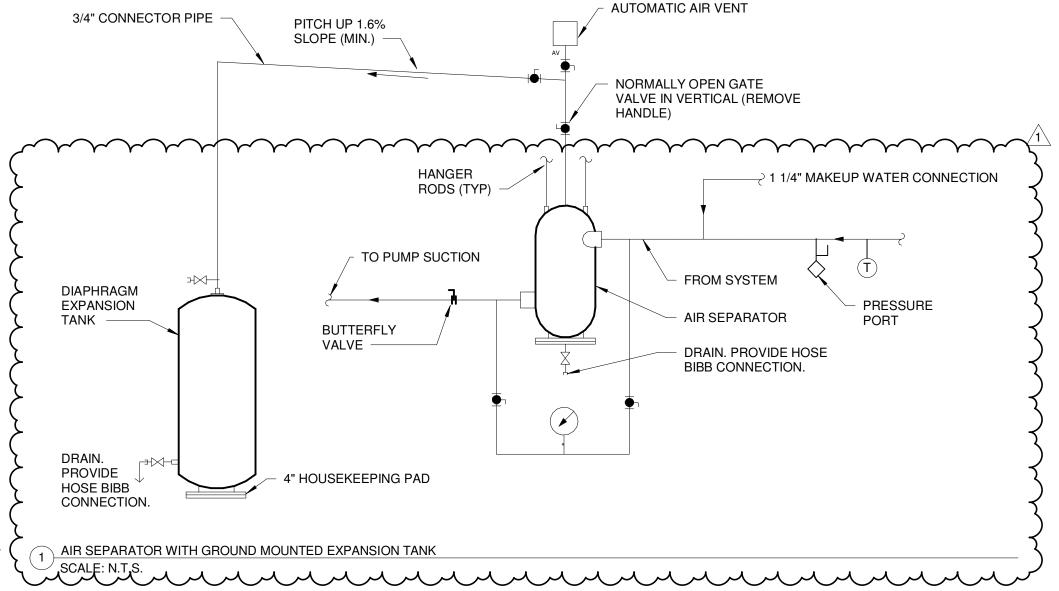


HEAT PUMP AND DOAS PIPING DIAGRAM N.T.S.

NOTES

1. SEE EXPANSION TANK S

SEE EXPANSION TANK SYSTEM SCHEDULE FOR COMPONENT SIZES.
 CHARGE TO HIGHEST POINT IN SYSTEM PLUS 4 PSI.



Notes:

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SPECIFICATIONS FOR FURTHER STORAGE REQUIREMENTS.

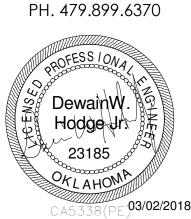
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HP ENGINEERING INC.
5214 W. VILLAGE PARKWAY
SUITE 120
ROGERS, AR 72758



GENERAL INFORMATION:
- CODE: 2015 IBBC, 2015 IBC
- USE GROUP: A-3
- SPRINKLER STATUS - TO BE INSTALLED
- FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

GEOTHERMAL DETAILS

DATE PROJECT NUMBER 02/09/18 1604-003

SHEET NO.
M203

CT NUMBER 04-003 **N**

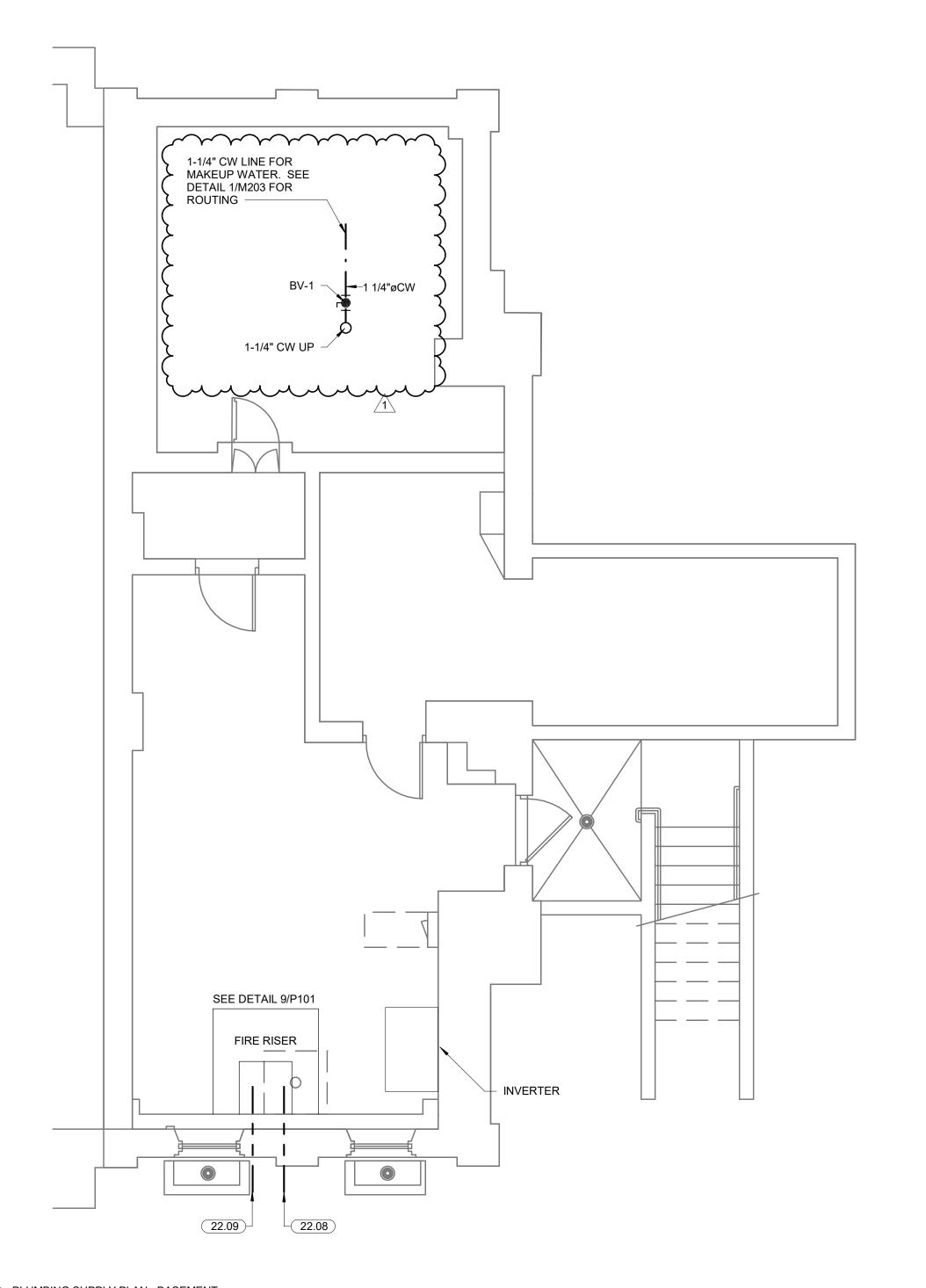


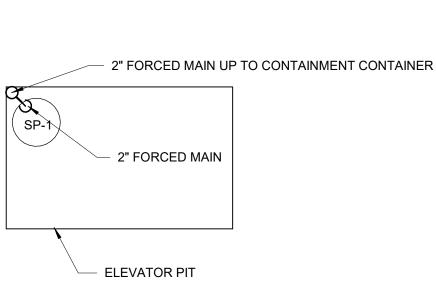
22.01 EXISTING SANITARY DRAIN LINE. FIELD VERIFY EXACT LOCATION, ADEQUATE SIZE, DIRECTION OF

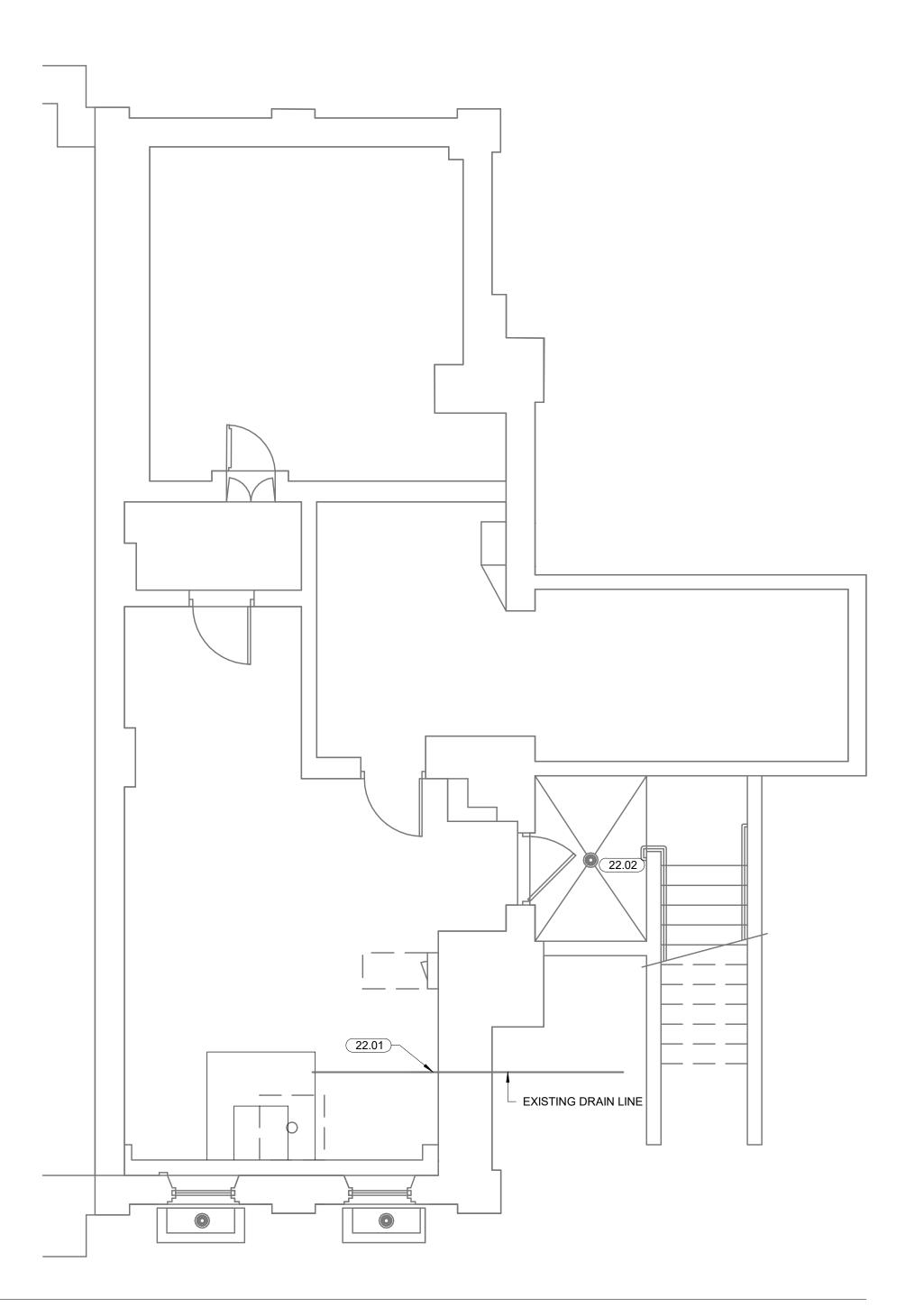
FLOW AND INVERT OF EXISTING DRAIN LINE. 22.02 EXISTING EXTERIOR DRAIN. CONTRACTOR SHALL HYDRO JET TO CLEAN OUT DRAIN AND CONFIRM THAT IT IS IN GOOD WORKING CONDITION.

22.08 FIRE LINE. STUB UP INSIDE BUILDING FOR SPRINKLER CONTRACTOR CONNECTION. FIRE LINE TO BE SIZED BY SPRINKLER CONTRACTOR. REFER TO CIVIL PLANS FOR CONTINUATION.

22.09 FIRE LINE TO FDC. REFER TO CIVIL PLANS FOR CONTINUATION. COORDINATE EXACT LOCATION OF FDC WITH LOCAL FIRE MARSHAL.







2 PLUMBING SUPPLY PLAN - BASEMENT 1/4" = 1'-0"

1 PLUMBING DRAIN PLAN - BASEMENT 1/4" = 1'-0"

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HP ENGINEERING INC. 5214 W. VILLAGE PARKWAY SUITE 120

ROGERS, AR 72758 PH. 479.899.6370



GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



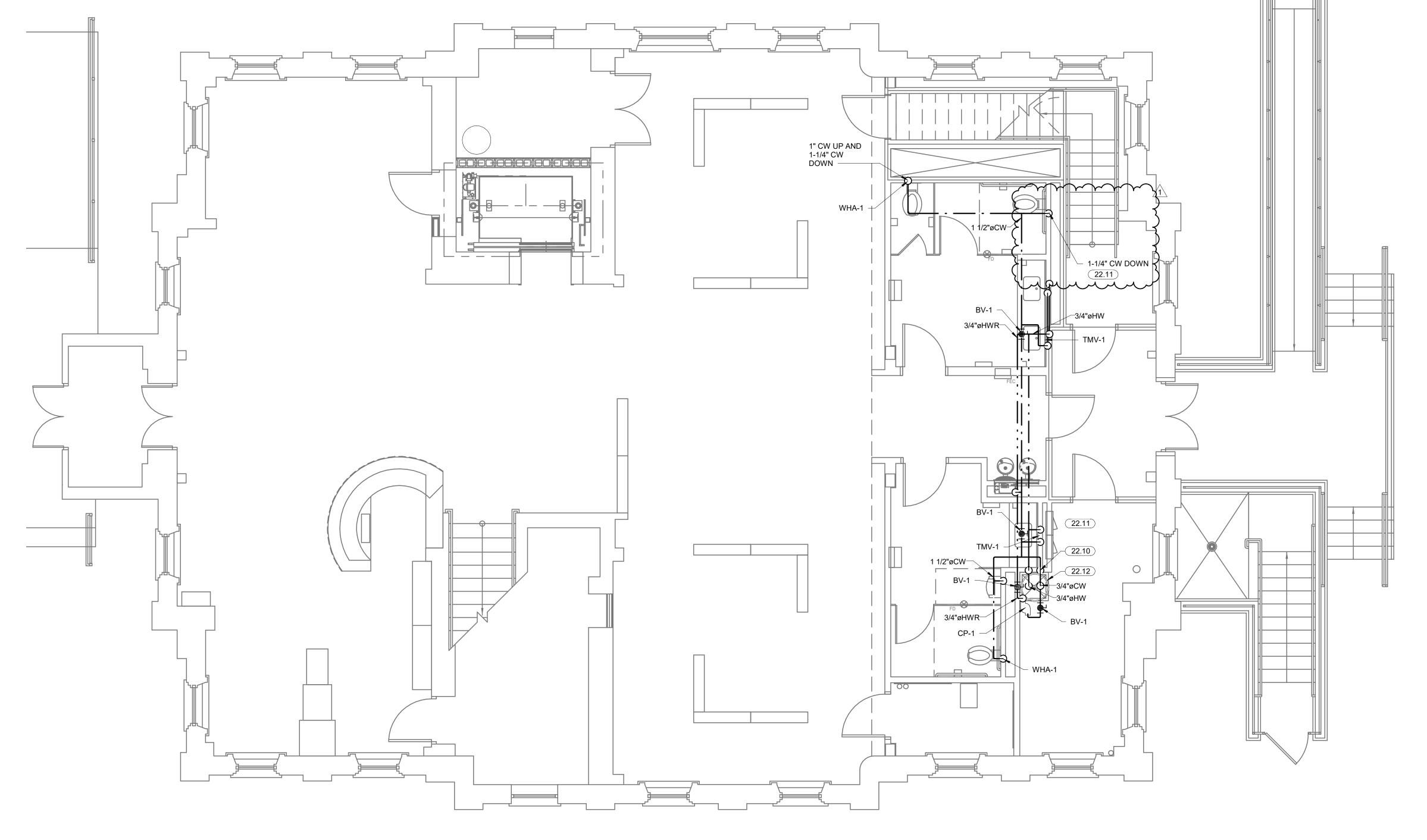
ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

BASEMENT - PLUMBING PLANS

PROJECT NUMBER

KEYNOTES

- 22.10 1-1/2" CW DOWN TO BASEMENT AND CONNECT TO EXISTING CW LINE. FIELD VERIFY EXACT LOCATION AND ADEQUATE SIZE OF EXISTING CW LINE. 42 G.P.M.
- 22.11 VALVE AND CAP ALL ABANDONED HOT AND COLD WATER SUPPLY LINES IN A CONCEALED LOCATION. ALL VALVES AND CAPS SHALL BE LOCATED IN A CONCEALED LOCATION UNLESS NOTED OTHERWISE.
- 22.12 EWH-1: MOUNT ON SHELF ABOVE JS-1 AT 60" A.F.F. ROUTE DRAIN PAN DRAIN AND T&P VALVE TO JS-1.



1 PLUMBING SUPPLY PLAN - GROUND FLOOR 1/4" = 1'-0"

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ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

SHEET NO. **P300**

GROUND FLOOR -PLUMBING SUPPLY PLAN

GENERAL POWER NOTES

- ALL RECEPTACLES SHALL BE GROUNDING TYPE
- ALL RECEPTACLES INSTALLED IN BATHROOMS, OUTDOORS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
- COORDINATE MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE FEEDERS, DISCONNECTS AND MAINTENANCE RECEPTACLES SO THAT THEY WILL NOT INTERFERE WITH OPERATION OR MAINTENANCE OF MECHANICAL
- PROVIDE POWER TO MECHANICAL, PLUMBING, AND ALL OTHER EQUIPMENT AS REQUIRED FOR PROPER OPERATION, COORDINATE AND VERIFY EACH PIECE OF EQUIPMENTS POWER/CONTROL REQUIRMENTS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT. REFER TO RELATED MECHANICAL. PLUMBING. AND OTHER RELATED DOCUMENTS FOR LOCATIONS OF EQUIPMENT AND REQUIRED CLEARANCES AROUND
- COORDINATE EXACT MOUNTING HEIGHT OF EACH ABOVE COUNTER
- RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. ALL OUTLETS LOCATED IN AREAS REQUIRING GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC-210 SHALL CONSIST OF A GFCI PROTECTED DEVICE, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS

GENERAL LIGHTING NOTES

- WHERE RECESSED LIGHTING FIXTURES ARE INDICATED IN A FIRE RATED CEILING, PROVIDE A ONE HOUR RATED "TENT" FOR FIXTURE PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS. REFER TO ARCHITECTURAL
- ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF FIXTURES. CONNECT "UN-SWITCHED" HOT CONDUCTOR FROM CIRCUIT SERVING SPACE LIGHTING TO EACH EXIT SIGN, EMERGENCY LIGHT, AND ANY FIXTURE DESIGNATED AS NIGHT LIGHT SERVING THE SPACE.
- COORDINATE ALL DEVICES AND WALL-MOUNTED LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL WALL FINISHES AND ELEVATIONS. SPECIAL ATTENTION AND COORDINATION OF WALL TYPES AND FINISHES IS REQUIRED PRIOR TO ROUGH-IN. EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN TO AVOID INSTALLATION ON SPECIAL ARCHITCTURAL WALL FINISHES. DEVICES NOT PROPERLY COORDINATED WITH THE SPECIAL WALL FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
- ELECTRICAL CONTRATOR SHALL VERIFY CHEVRON DIRECTIONS OF ALL EXIT SIGNS PRIOR TO ORDERING.
- FOR BATTERY FED EMERGENCY LIGHTS: PROVIDE EMERGENCY BALLAST. PROVIDE "HOT" WIRE TO EMERGENCY BALLAST. SWITCH FIXTURE AS INDICATED ON PLANS.
- COORDINATE AND PROVIDE DIMMER SWITCHES RATED FOR AND COMPATABLE WITH INTENDED LIGHT FIXTURE(S) TO BE CONTROLLED. CIRCUITS CONTROLLED WITH LINE-VOLTAGE DIMMER SWITCHES SHALL NOT SHARE NEUTRAL CONDUCTORS

GENERAL LOW VOLTAGE NOTES

- PROVIDE 4'WIDE X 4'TALL X 3/4" FIRE RATED. PAINTED CDX PLYWOOD BACKBOARD WHERE SHOWN ON DRAWINGS OR AS REQUIRED FOR TELEPHONE, CATV, ALARM SYSTEM EQUIPMENT, ECT. COORDINATE EXACT LOCATION(S) WITH RESPONSIBLE CONTRACTOR(S).
- PROVIDE (1) 1/2" CONDUIT, AND 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR ALL THERMOSTAT LOCATIONS INDICATED ON THE MECHANICAL DRAWINGS. ROUTE CONDUIT FROM BOX TO ACCESSIBLE CEILING CAVITY. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. PROVIDE PULL STRING IN ALL EMPTY CONDUIT SYSTEMS. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH MECHANICAL CONTRACTOR PRIOR TO
- PROVIDE CABLE HOOKS ABOVE CEILING ON 6' CENTERS IN ALL CORRIDORS. MOUNT 6 INCHES ABOVE CEILING.
- PROVIDE ROUGH-IN OF ALL BACK BOXES, CONDUITS (WITH BUSHINGS AND PULL STRINGS) AND OTHER WIRE WAYS AS REQUIRED FOR LOW VOLTAGE SYSTEMS, COORDINATE ALL REQUIRED LOCATIONS WITH OWNER AND RESPONSIBLE CONTRACTOR(S).
- FURNISH AND INSTALL A TELEPHONE SERVICE CONDUIT(S) PER TELEPHONE SERVICE PROVIDER SPECIFICATIONS. STUB UP AT DESIGNATED EQUIPMENT
- ONE #6 COPPER INSULATED GROUND WIRE FROM THE ELECTRICAL SERVICE GROUND TO THE TELEPHONE EQUIPMENT BOARD. LEAVE 36" EXTRA WIRE AT FREE END.
- FURNISH AND INSTALL A CABLE TV SERVICE CONDUIT(S) PER CABLE TV PROVIDER SPECIFICATIONS. STUB UP AT SERVICE POINT.
- REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH CABLE TV SERVICE PROVIDER.
- REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH PHONE SERVICE PROVIDER.
- PROVIDE BACK BOX AND CONDUIT TO ABOVE THE ACCESSIBLE CEILING AS REQUIRED FOR THE HVAC BUILDING AUTOMATION SYSTEM DEVICES. COORDINATE EXACT LOCATIONS AND OTHER REQUIREMENTS WITH RELATIVE MEP DRAWINGS AND THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. THERMOSTATS, TEMPERATURE SENSORS, STATIC PRESSURE SENSORS, HUMIDISTATS, ETC. SHALL BE INSTALLED AT THE SAME ELEVATION AS THE LIGHT SWITCHES UNLESS REQUIRED OTHERWISE.

GENERAL ELECTRICAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW ALL GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
- SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS WITHOUT CEILINGS AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, ABOVE STRUCTURE FINISH, OR BELOW FLOOR SLABS WHEN SPECIFIED. WHERE EXPOSED CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS, THE BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF SURFACE MOUNTED EQUIPMENT PRIOR TO ROUGH-IN, COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO CONSTRUCTION OF WALLS. ROOF DECK. OR FLOOR SLABS. ATTACHMENT TO ROOF DECK OR JOIST WEBBINGS IS NOT ALLOWED, MAINTAIN A MINIMUM SPACING OF 1-1/2" FROM CONDUIT TO ROOF DECK. IN AREAS WHERE EXPOSED RACEWAYS ARE REQUIRED, INSTALL SYSTEMS SQUARE AND TIGHT TO STRUCTURE AND PAINT TO MATCH THE STRUCTURE PER ARCHITECT AND/OR OWNER SPECIFICATIONS. FAILURE TO PROPERLY COORDINATE THE ROUTING OF EXPOSED RACEWAYS MAY RESULT IN RELOCATION OF SUCH RACEWAYS AT NO ADDITIONAL COST TO THE OWNER.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. PROVIDE PENETRATION FIRE STOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479. FIRE STOPPING SHALL NOT BE LESS THAN FIRE RESISTANCE RATING OF CONSTRUCTED PENETRATIONS.
- FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES. ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR UON. REFER TO THE TYPICAL MOUNTING HEIGHT
- INSTALL EQUIPMENT IN A MANNER TO REMAIN ACCESSIBLE WITH REASONABLE MEANS BY THE OWNER FOLLOWING COMPLETION OF WORK. SPECIAL ATTENTION AND ADDITIONAL COORDINATION IS EXPECTED IN AREAS OF THE BUILDING WHERE THE CEILING AND STRUCTURE HEIGHTS HAVE SIGNIFICANT DIFFERENT ELEVATIONS. EQUIPMENT REQUIRING POSSIBLE FUTURE ACCESS SHALL BE INSTALLED SUCH THAT IT MAY BE SAFELY ACCESSED FROM A STANDARD STEP LADDER OR PERSONNEL LIFT SUITABLE FOR THE LOCATION AND CEILING HEIGHT, WITHOUT REMOVING OR DAMAGING THE CEILING GRID STRUCTURE.
- COORDINATE ALL CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER DISCIPLINES. WITH CEILING, AND STRUCTURE. REFER TO ARCHITECTURAL REFLECTED CEILING
- FIELD VERIFY LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING POWER POLES, TELEPHONE PEDESTALS, OVERHEAD AND UNDERGROUND FEEDERS, METERS, PANELS, DEVICES, ETC. PROVIDE FOR COORDINATION WITH EXISTING
- EQUIPMENT. ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS.
- CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST LOAD, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST LOAD DOES NOT EXCCED 5%.
- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY LISTED.
- SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND
- ALL FEES AS REQUIRED. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL
- OR FIRM TO PERFORM ALL REQUIRED TESTS. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TEST AND ADJUSTMENTS HAVE BEEN MADE. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE
- ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS AND PLANS.
- JUNCTION BOXES LOCATED ABOVE GRID CEILINGS SHALL BE LOCATED NO GREATER THAN 4-FEET ABOVE THE CEILING IN A LOCATION ACCESSIBLE VIA A LADDER FROM
- ALL WIRING DEVICE COVERPLATES SHALL INDICATE PANELBOARD AND CIRCUIT SERVING THE DEVICE. UTILIZE CLEAR VINYL (BLACK LETTERING) IDENTIFICATION LABLES MANUFACTURED BY 3M COMPANY (OR APPROVED EQUIVALENT).
- THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED.

APPLICATION - TYPE OF CONDUIT

STRINGENT SHALL APPLY.

- BURIED IN CONCRETE OR OUTDOORS PVC WITH RIGID GALVANIZED STEEL ELBOWS SERVICE ENTRANCE - GALVANIZED RIGID STEEL OR SERVICE UTILITY SPECIFICATIONS.
- SEISMIC PROTECTION FOR SEISMIC CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC USE GROUP AND SEISMIC DESIGN CATEGORY. ANY REQUIREMENTS FOR SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURER'S REQUIREMENTS, THE MOST
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF SEISMIC RESTRAINTS REQUIRED FOR THE VARIOUS SYSTEM'S ELEMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS BASED ON THE RELATED SEISMIC CODE CRITERIA, THE SIZE AND WEIGHT OF THE SUPPORTED ELEMENT AND THE DISTANCE FROM STRUCTURE THAT THE ELEMENT WILL BE INSTALLED. IF REQUIRED BY LOCAL, STATE, FEDERAL CODES AND/OR OTHER AUTHORITY HAVING JURISDICTION (AHJ) THE CONTRACTOR SHALL SUBMIT DESCRIPTIVE CATALOG DATA OF SEISMIC RESTRAINTS, SHOP DRAWINGS SHOWING THE TYPES, LOCATIONS AND INSTALLATION DETAILS OF SEISMIC RESTRAINTS AND CALCULATIONS SHOWING THAT THE SEISMIC RESTRAINTS MEET THE SEISMIC REQUIREMENTS TO THE LOCAL AHJ FOR REVIEW AND APPROVAL. CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS. CALCULATIONS SHALL INCLUDE DEAD LOADS, STATIC SEISMIC LOADS AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT AND STRUCTURE.
- PROVIDE A MINIMUM OF (3) SPARE 1" CONDUITS FROM RECESSED PANELBOARD, UP
- TO ACCESSIBLE CEILING SPACE. UNLESS NOTED OTHERWISE PROVIDE MINIMUM #8 AWG CONDUCTORS IN 1" CONDUIT(S) FOR ALL UNDERGROUND SITE POWER AND LIGHTING CIRCUITS. INCREASE CONDUCTOR AND RELATED CONDUIT SIZE AS NOTED OR OTHERWISE REQUIRED TO LIMIT VOLTAGE DROP TO LESS THAN 5% FOR THE ENTIRE LENGTH OF SYSTEM.

ABBREVIATIONS

ISOLATED GROUND AC ABOVE COUNTER AFF ABOVE FINISHED FLOOR MOTOR CONTROL CENTER CB CIRCUIT BREAKER NATIONAL ELECTRICAL CODE NEC NATIONAL ELECTRICAL E EXISTING NEMA EC ELECTRICAL CONTRACTOR MANUFACTURERS ASSOC. EP EXPLOSION PROOF NOT IN CONTRACT GFI GROUND FAULT CIRCUIT INTERRUPTER NIGHT LIGHT UNDERGROUND GR GROUND UG HP HORSE POWER UNLESS OTHERWISE NOTED UON WEATHERPROOF

WIRING

WR

WEATHER RESISTANT

WIRING CONCEALED IN CEILING OR WALLS UON. ALL WIRE IS NUMBER #12 AWG MINIMUM. → EXPOSED RACEWAY - - - - → UNDERGROUND RACEWAY; TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.

SWITCHES

SWITCH MOUNTED AT +48"; SINGLE POLE UON. LOWER CASE LETTER, WHEN PRESENT, INDICATES FIXTURES CONTROLLED. * ABBREVIATIONS FOR SWITCH

- DOUBLE POLE SWITCH 3-WAY SWITCH
- DIMMER SWITCH (SHALL BE COMPATABLE WITH FIXTURE BEING DIMMED) FAN SWITCH: DUAL OPERATION WITH DIMMER
- KEYED SWITCH MOTOR RATED SWITCH
- OS DUAL TECHNOLOGY OCCUPANCY SENSOR
- VOLUME CONTROL SWITCH

CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH SPARE DRY CONTACTS. HUBBELL OMNIDIARP SERIES

RECEPTACLES

- DUPLEX RECEPTACLE (NEMA 5-20R)
- DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 8" ABOVE COUNTERTOP.
- (ALL RECEPTACLE TYPES) WITH USB CHARGING PORTS
- GFI DUPLEX RECEPTACLE (NEMA 5-20R)
- GFI DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 8" ABOVE COUNTERTOP.
- QUADRUPLEX RECEPTACLE (TWO NEMA 5-20R)
- SPECIAL RECEPTACLE: VERIFY NEMA TYPE WITH MANUFACTURER
- FLOOR BOX WITH DATA: LEGRAND WIREMOLD SERIES RFB4E-OG OR RFB6E-OG WITH EVOLUTION COVER. ROUTE (2)1" FOR DATA FROM FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: LEGRAND 6AT SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON.
- SINGLE RECEPTACLE (NEMA 5-20R)
- SPLIT WIRED DUPLEX RECEPTACLE (NEMA 5-20R)
- DIRECT EQUIPMENT CONNECTION: VERIFY CONNECTION DETAILS WITH MANUFACTURER
- FLOOR BOX: HUBBEL 3SFBSS WITH 3SFBC COVER. EC SHALL ROUTE A 1"C FOR FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES:

HUBBELL PT2X2 SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON.

CEILING MOUNTED RECEPTACLE(NEMA 5-20R)

PANELS AND MISC.

LIGHT OR POWER PANEL (J) 4x4 JUNCTION BOX.

- 4x4 FLOOR MOUNTED JUNCTION BOX.
- EQUIPMENT DISCONNECT: INTERIOR DISCONNECTS SHALL BE NEMA 1 TYPE. EXTERIOR DISCONNECTS SHALL BE NEMA 3R TYPE. SIZE AS INDICATED IN THE PLANS AND PER NAMEPLATE RATING.
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT 8" ABOVE COUNTER (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. WIRING BY
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT +18" (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. WIRING BY OTHERS.
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX IN CEILING. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. WIRING BY OTHERS.
- TELEVISION: PROVIDE 4X4 JUNCTION BOX WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. CONFRIM HEIGHTS WITH ARCHITECT PRIOR TO
- CEILING MOUNTED SPEAKER: PROVIDE 1/2"C WITH PULL STRINGS. EQUIPMENT AND CABLING BY OTHERS. SPEAKERS TO PART OF A/V CONSULTANTS BID.
- CARD READER: REFER TO SYSTEM PLANS AND SPECIFICATIONS. AT EACH DOOR WITH A CARD READER PROVIDE ALL ELECTRICAL CONNECTIONS FOR DOOR HARDWARE SYSTEMS AS REQUIRED TO MAKE A COMPLETE OPERATIONAL SYSTEM. WHERE REQUIRED, BACK TO BACK 2"X4" BOXES ARE ALLOWED FOR CARD READER AND PUSH TO EXIT SWITCH. PROVIDE POWER TO THE LOCK SYSTEM IN THE I.T. ROOM WHERE NEEDED BY CONTRACTOR INSTALLING SYSTEM.
- SECURITY CAMERA: PROVIDE CONDUIT WITH PULL STRINGS. VERIFY CONDUIT SIZE WITH EQUIPMENT PROVIDER. EQUIPMENT AND CABLING BY OTHERS. (1 BLACK CAT6 CABLE PER CAMERA)
- \bigcirc , ∇ _{MQ} MOTION SENSOR FOR EXHIBIT ACTIVATION. PROVIDE 4" SQUARE BACK BOX WITH 1-GANG MUD RING.

muniment in the second second

WIRELESS ACCESS CONTROL: PROVIDE SINGLE GANG BOX AND CONDUIT WITH PULL STRINGS. VERIFY CONDUIT SIZE WITH EUIPMENT PROVIDER. EQUIPMENT AND PB GANG MUD RING: +48"AFF A/V PUSH BUTTON: PROVIDE 4X4 BOX WITH SINGLE

- 1. SCALE. DO NOT SCALE DRAWINGS. 2. CODES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES.
- 3. DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, FRAMING CONDITIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES. ANY AND ALL COSTS ASSOCIATED WITH WORK OR REPAIR THEREOF PERFORMED FOLLOWING DISCOVERY OF DISCREPANCIES, UNFORESEEN CONDITIONS, OR DEFICIENCIES WILL BE BORNE BY THE CONTRACTOR.
- 4. DIMENSIONS. ALL INTERIOR DIMENSIONS ARE TO THE CENTERLINE OF FRAMING, TO THE CENTERLINE OF OPENINGS OR TO THE INSIDE FINISH FACE, UNLESS NOTED OTHERWISE.
- 5. INSTALLATION. ALL MATERIALS, SUPPLIES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PER APPLICABLE CODES AND REQUIREMENTS. THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 6. MATERIAL STORAGE. MATERIALS STORED ON SITE SHALL BE PROTECTED FROM DAMAGE BY MOISTURE, WIND, SUN, ABUSE, THEFT OR ANY OTHER HARMFUL AFFECTS. REFERENCE SPECIFICATIONS FOR FURTHER STORAGE REQUIREMENTS. 7. SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS OR SAFETY PROGRAMS USED TO PROVIDE A
- SAFE WORKING ENVIRONMENT ON THE JOB SITE, REFERENCE SPECIFICATIONS FOR SAFETY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING AND BRACING DURING ALL PHASES OF CONSTRUCTION.
- 8. PERMITS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS INCLUDING PAYING TERO FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSPECTIONS AND A CERTIFICATE OF OCCUPANCY. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL THE PERMITTING AUTHORITIES.
- 9. CONTRACT DOCUMENTS. THESE CONTRACT DOCUMENTS ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED WITHOUT HIS OR HER WRITTEN CONSENT. THESE CONTRACT DOCUMENTS ARE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. THE OWNER SHALL NOT REUSE OR PERMIT THE REUSE OF THESE CONTRACT DOCUMENTS EXCEPT BY MUTUAL AGREEMENT IN WRITING. THE CONTRACT DOCUMENTS SHALL NOT BE USED FOR ISSUE OF A BUILDING PERMIT OR ANY CONSTRUCTION UNLESS
- 10. RECYCLE BINS TO BE PROVIDED FOR WORKERS DURING CONSTRUCTION.

SIGNED AND SEALED BY THE ARCHITECT.

HP ENGINEERING INC 1836 South Baltimore Avenue Tulsa, OK 74119 PH. 539.664.4618



GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

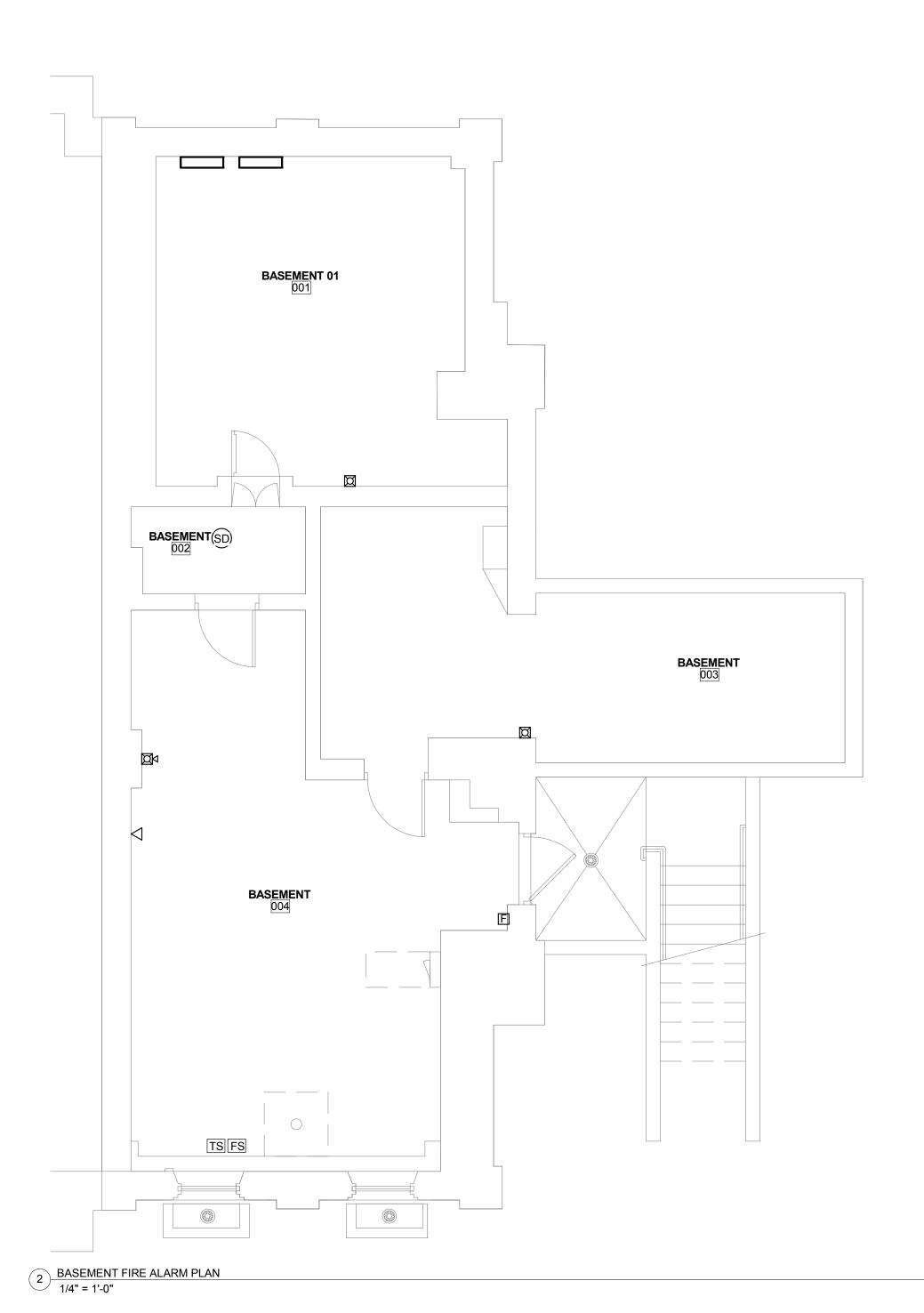
CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464

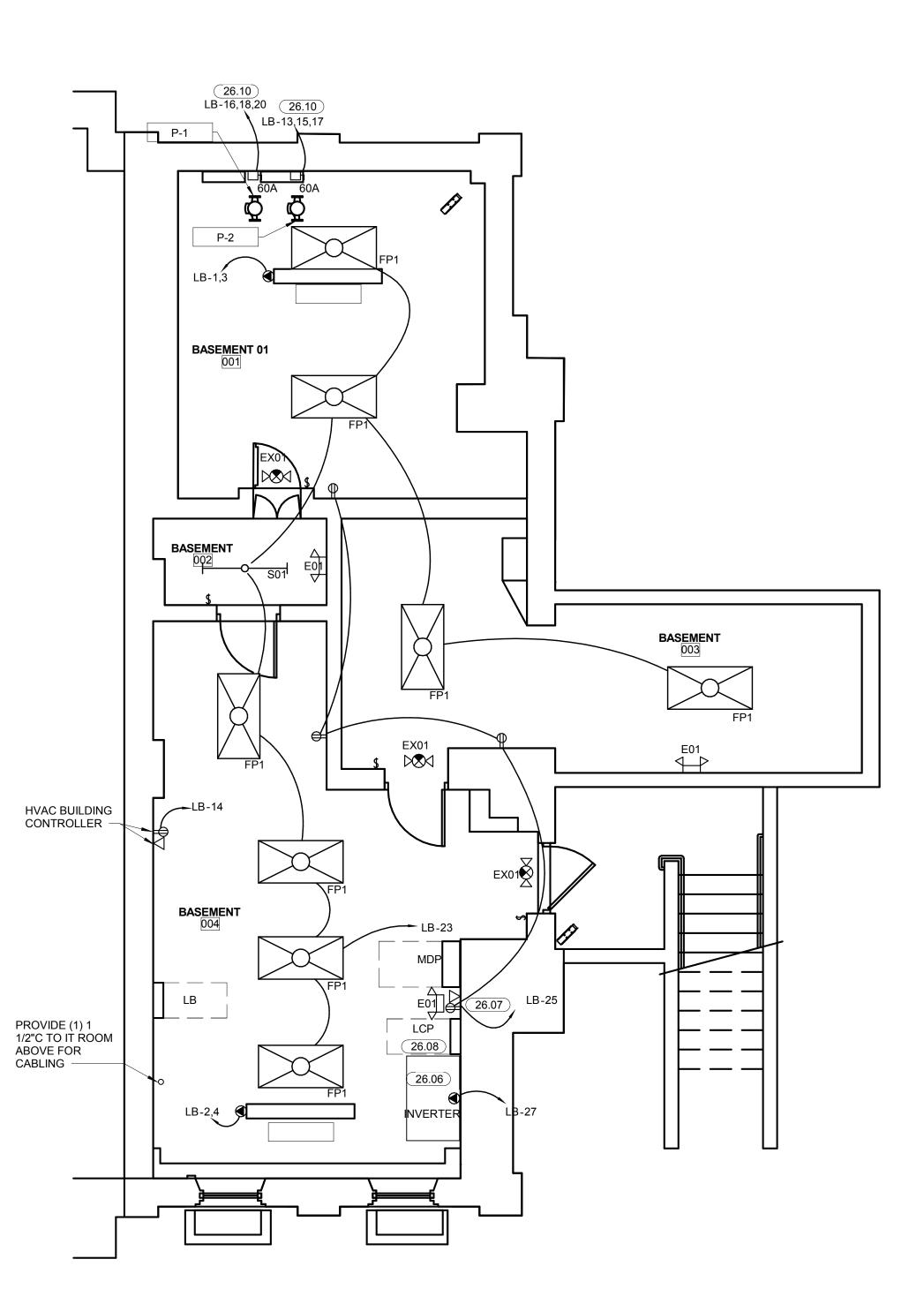


ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

ELECTRICAL NOTES AND **LEGEND**

PROJECT NUMBER 1604-003 02/09/18





1 BASEMENT ELECTRICAL PLAN
1/4" = 1'-0"

POWER PLAN NOTES

PROVIDE COVER PLATES AT ALL JUNCTION BOX LOCATIONS. COORDINATE LOCATIONS OF ALL EQUIPMENT IN ELEVATOR EQUIPMENT ROOM WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGHT-IN. ELEVATOR DISCONNECT SWITCHES TO HAVE BUILT IN

ELECTRICAL CONTRACTOR SHALL REFERENCE ELEVATOR SPECIFICATIONS AND COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURE FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN

THIS INCLUDES EXTERIOR RECEPTACLES AT THE BUILDING, ON THE GROUNDS AND AT THE PAVILION. SURFACE MOUNTED ELECTRICAL RACEWAY TO BE INSTALLED ON THE INTERIOR AT ALL EXTERIOR MASONRY WALLS. REFER TO

ARCHITECUTRAL BASE TRIM DETAILS.

MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS. E.C.SHALL MAKE CONNECTIONS BETWEEN THE OUTDOOR AND INDOOR UNITS OF THE MINI-SPLIT SYSTEM.

EXHAUST FANS SHALL BE CIRCUITED WITH LIGHTS UNLESS SHOWN OTHERWISE. REFER TO MECHANICAL PLANS FOR CONTROLS OF EXHAUST FANS.

LIGHTING PLAN NOTES

PLIGHTING CONTROL PANEL: PROVIDE ALL NECESSARY EQUIPMENT, DEVICES AND CIRCUITRY FOR A COMPLETE OPERATIONAL SYSTEM. INCLDUING BUT NOT LIMITED TO: CABLING, CONDUIT, DEVICES. FOR LIGHTING CIRCUITRY BEING CONTROLLED BY THE LIGHTING CONTROL PANEL AND BACKED UP BY THE INVERTER FOR EMERGENY LIGHTING, PROVIDE NECESSARY EQUIPMENT INCLUDING BUT NOT LIMITED TO EMERGENCY RELAYS SO THAT THE INVERTER CIRCUITS WILL COME ON DURING A POWER OUTAGE REGARDLESS OF THE STATE OF THE LIGHTING CONTROL PANEL.

EXISTING DEVICES AND CIRCUITRY NOT SHOWN SHALL REMAIN. THIS INCLUDES BUILDING FLOOD LIGHTS, SITE LIGHTS AND PAVILION LIGHITNG.

26.07 CRESTRON PROCESSOR PANEL ENGLOSURE DIN-EN. 26.08 CRESTRON GREEN LIGHT EXPRESS GLPD NIMMING AND

26.10 VIA VFD. MECHANICAL CONTRACTOR TO SUPPLY VFD. ELECTRICAL CONTRACTOR SHALL INSTALL VFD.

EXISTING DEVICES AND CIRCUITRY NOT SHOWN SHALL REMAIN.

MECHANICAL POWER PLAN...

PROVIDE COVER PLATES AT ALL JUNCTION BOX LOCATIONS.

KEYNOTES

26.06 PROVIDE MYERS ILLUMINATOR CR 3KVA INVERTER, 120V IN AND 120V OUT - OR EQUAL.

SWITCHING PANEL.

Notes:

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CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES. 3. DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, FRAMING CONDITIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES. ANY AND ALL COSTS ASSOCIATED WITH WORK OR REPAIR THEREOF PERFORMED FOLLOWING

DISCOVERY OF DISCREPANCIES, UNFORESEEN CONDITIONS,

OR DEFICIENCIES WILL BE BORNE BY THE CONTRACTOR. 4. DIMENSIONS. ALL INTERIOR DIMENSIONS ARE TO THE CENTERLINE OF FRAMING, TO THE CENTERLINE OF OPENINGS OR TO THE INSIDE FINISH FACE, UNLESS NOTED OTHERWISE.

5. INSTALLATION. ALL MATERIALS, SUPPLIES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PER APPLICABLE CODES AND REQUIREMENTS. THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. MATERIAL STORAGE. MATERIALS STORED ON SITE SHALL BE PROTECTED FROM DAMAGE BY MOISTURE, WIND, SUN, ABUSE, THEFT OR ANY OTHER HARMFUL AFFECTS. REFERENCE SPECIFICATIONS FOR FURTHER STORAGE REQUIREMENTS.

7. SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS OR SAFETY PROGRAMS USED TO PROVIDE A SAFE WORKING ENVIRONMENT ON THE JOB SITE. REFERENCE SPECIFICATIONS FOR SAFETY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING AND BRACING DURING ALL PHASES OF

CONSTRUCTION. 8. PERMITS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS INCLUDING PAYING TERO FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSPECTIONS AND A CERTIFICATE OF OCCUPANCY. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL THE PERMITTING AUTHORITIES.

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10. RECYCLE BINS TO BE PROVIDED FOR WORKERS DURING CONSTRUCTION.

> HP ENGINEERING INC. 1836 South Baltimore Avenue Tulsa, OK 74119 PH. 539.664.4618



- CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

GENERAL INFORMATION:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

SHEET NO. **E102**

BASEMENT ELECTRICAL **PLANS**

PROJECT NUMBER

POWER PLAN NOTES

PROVIDE COVER PLATES AT ALL JUNCTION BOX LOCATIONS. COORDINATE LOCATIONS OF ALL EQUIPMENT IN ELEVATOR EQUIPMENT ROOM WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGHT-IN. ELEVATOR DISCONNECT SWITCHES TO HAVE BUILT IN SHUNT TRIP.

ELECTRICAL CONTRACTOR SHALL REFERENCE ELEVATOR SPECIFICATIONS AND COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURE FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN

EXISTING DEVICES AND CIRCUITRY NOT SHOWN SHALL REMAIN. THIS INCLUDES EXTERIOR RECEPTACLES AT THE BUILDING, ON THE GROUNDS AND AT THE PAVILION. SURFACE MOUNTED ELECTRICAL RACEWAY TO BE INSTALLED ON THE INTERIOR AT ALL EXTERIOR MASONRY WALLS. REFER TO

KEYNOTES

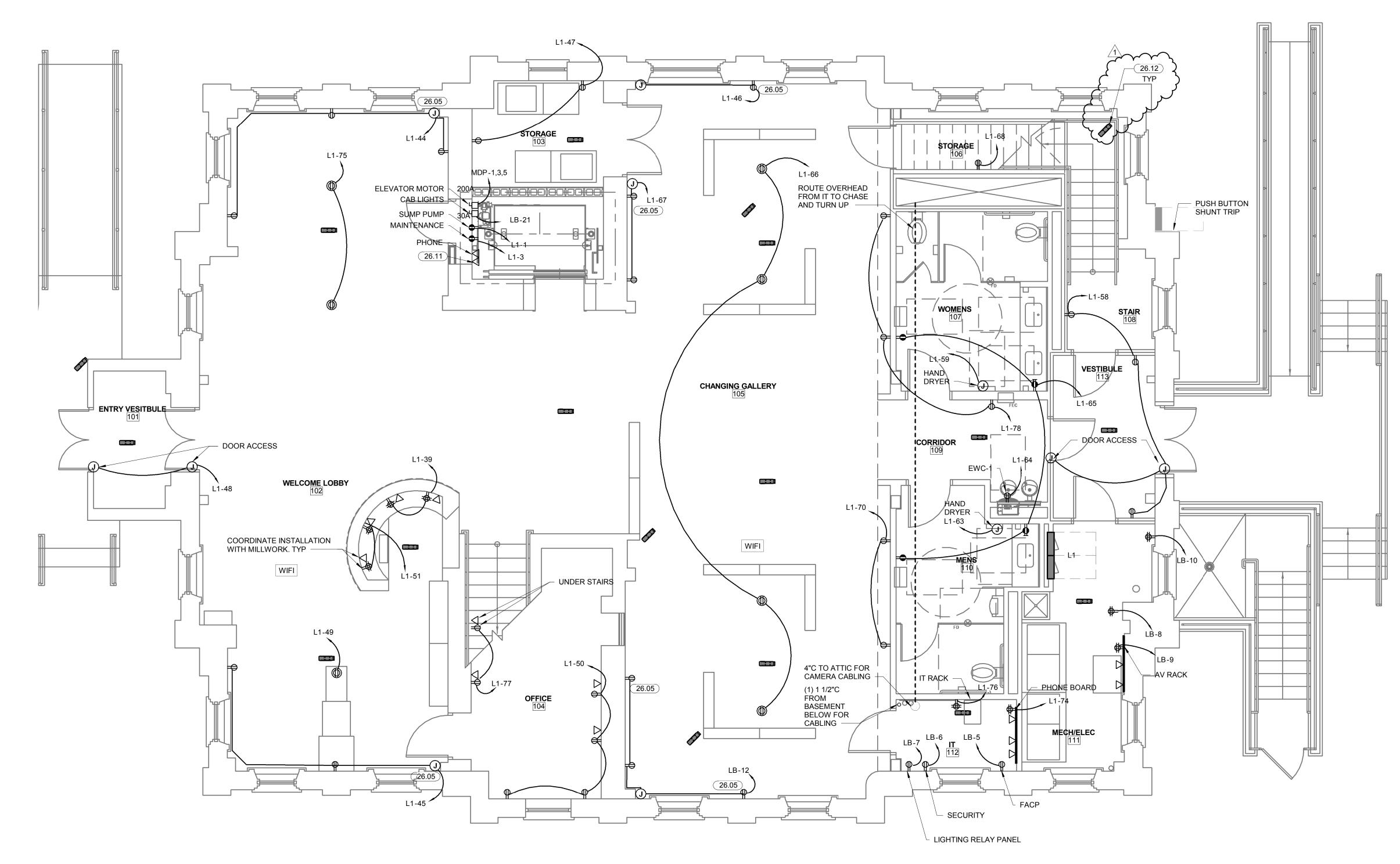
26.05 PROVIDE AND INSTALL LEGRAND WIREMOLD ACCESS 5000 DECORATOR RACEWAY. FEED FROM WALL MOUNTED JUNCTION BOX. COORDINATE TERMINATIONSAND LENGTHS WITH ARCHITECT. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MOUNTING DETAILS AND

26.11 PROVIDE (2) CAT6 TRAVELING CABLING AT ELEVATOR

ACCESSORIES.

ARCHITECUTRAL BASE TRIM DETAILS.

CONTROLS TO ELEVATOR CAB. REFER TO IT CABLING YPROYHDERHINSTAKLERFOR-REQUIREVIENTS:/// 26.12 INTERIOR CAMERA LOCATIONS: PROVIDE SINGLE GANG BOX. FLUSH MOUNTED WITH CEILING FINISH.



1 GROUND FLOOR POWER PLAN
1/4" = 1'-0"

Notes:

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- 10. RECYCLE BINS TO BE PROVIDED FOR WORKERS DURING CONSTRUCTION.

HP ENGINEERING INC. 1836 South Baltimore Avenue Tulsa, OK 74119 PH. 539.664.4618



GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

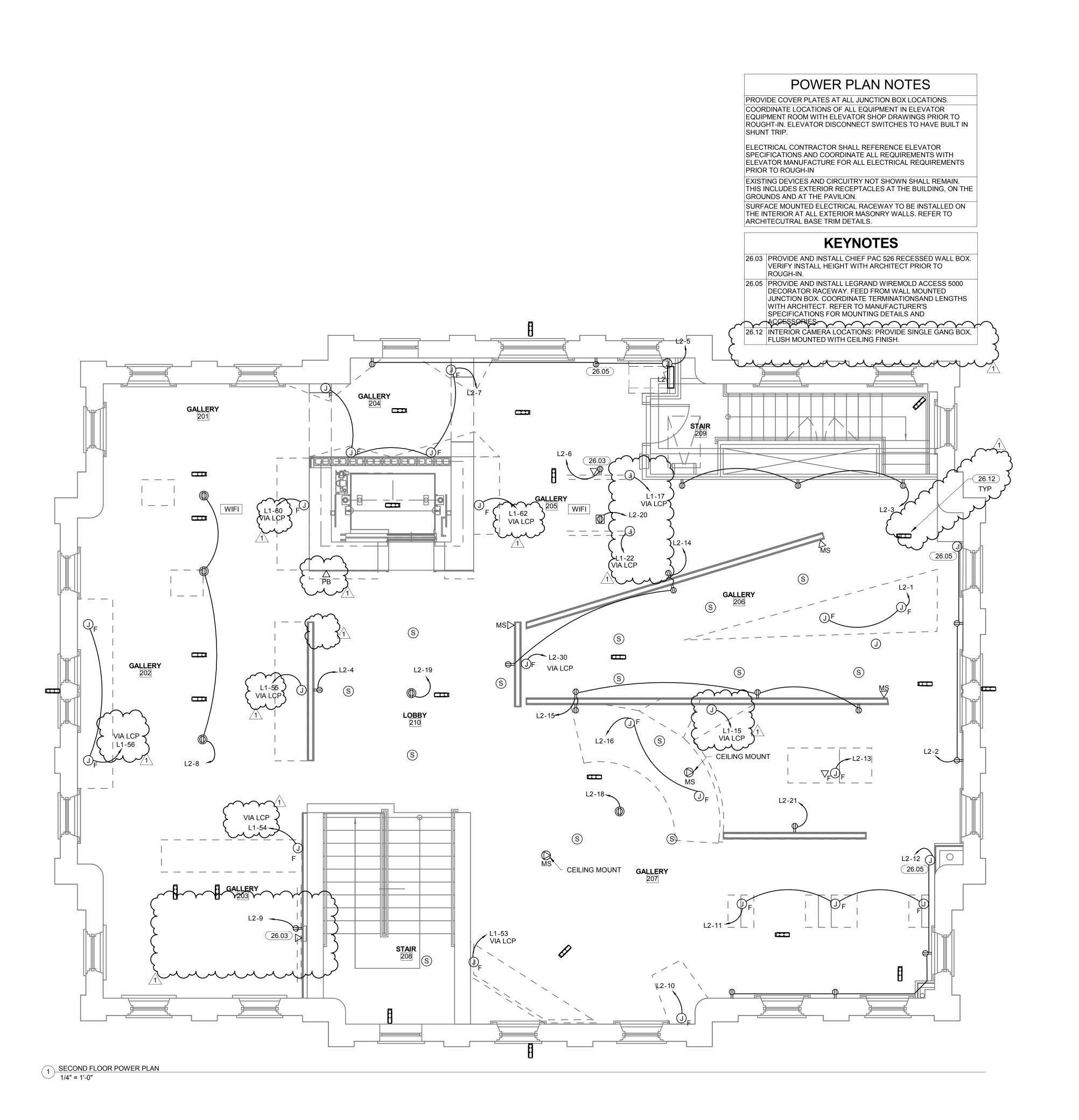
CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

GROUND FLOOR POWER PLAN DATE

PROJECT NUMBER



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ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

SECOND FLOOR POWER PLAN
DATE
02/09/18

PROJECT NUMBER

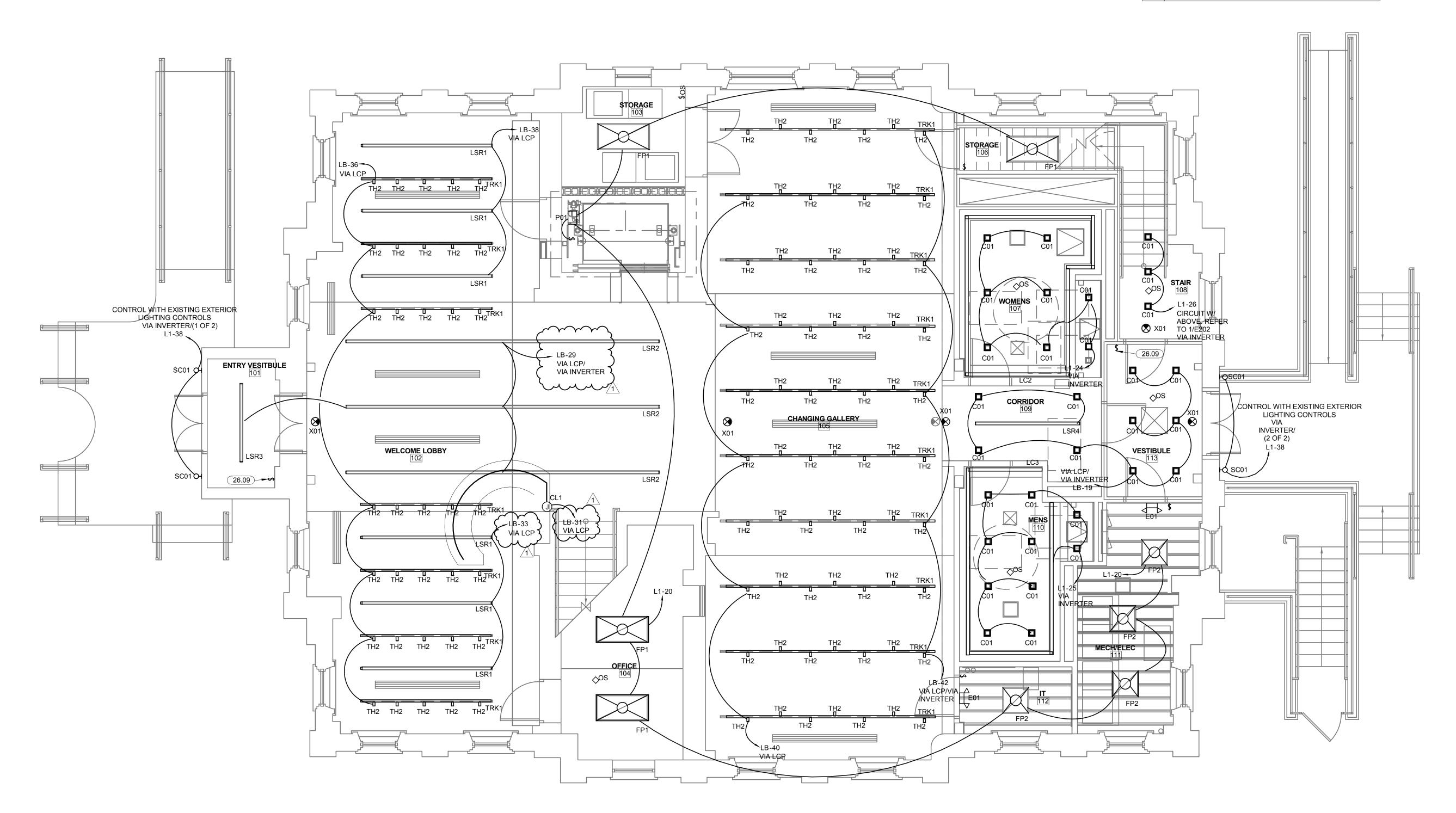
LIGHTING PLAN NOTES

PLIGHTING CONTROL PANEL: PROVIDE ALL NECESSARY EQUIPMENT, DEVICES AND CIRCUITRY FOR A COMPLETE OPERATIONAL SYSTEM. INCLDUING BUT NOT LIMITED TO: CABLING, CONDUIT, DEVICES. FOR LIGHTING CIRCUITRY BEING CONTROLLED BY THE LIGHTING CONTROL PANEL AND BACKED UP BY THE INVERTER FOR EMERGENY LIGHTING. PROVIDE NECESSARY EQUIPMENT INCLUDING BUT NOT LIMITED TO EMERGENCY RELAYS SO THAT THE INVERTER CIRCUITS WILL COME ON DURING A POWER OUTAGE REGARDLESS OF THE STATE OF THE LIGHTING CONTROL PANEL. EXISTING DEVICES AND CIRCUITRY NOT SHOWN SHALL REMAIN. THIS INCLUDES BUILDING FLOOD LIGHTS, SITE LIGHTS AND PAVILION

PROVIDE COVER PLATES AT ALL JUNCTION BOX LOCATIONS.

KEYNOTES

26.09 CRESTRON 7" TOUCHSCREEN TSW-760.



GROUND FLOOR LIGHTING PLAN
1/4" = 1'-0"

Notes:

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GENERAL INFORMATION:

ADDENDUM 01 - 03.02.18

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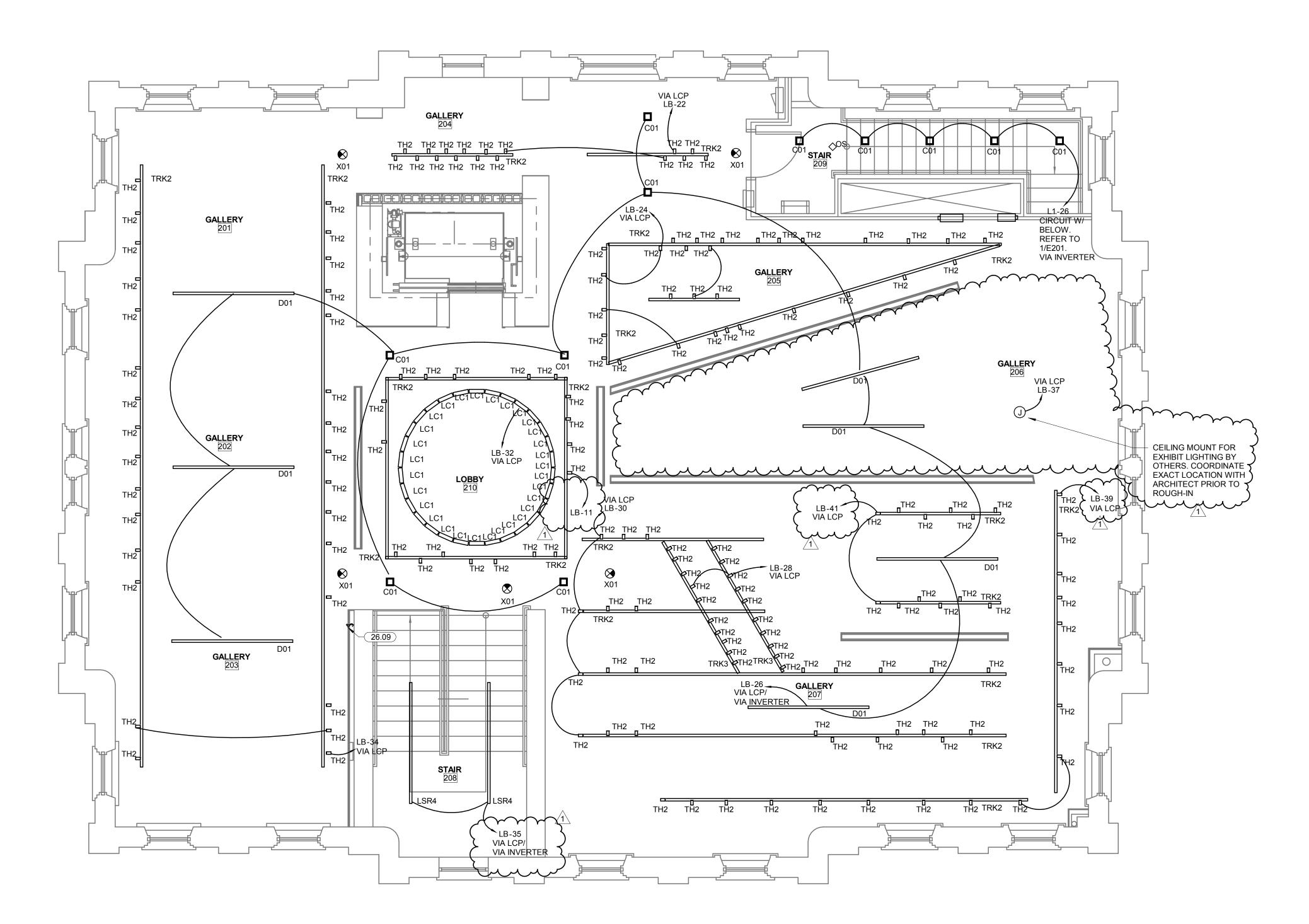


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GROUND LEVEL LIGHTING PLAN

PROJECT NUMBER

KEYNOTES 26.09 CRESTRON 7" TOUCHSCREEN TSW-760.

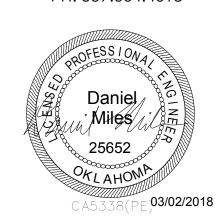


1 SECOND FLOOR LIGHTING PLAN
1/4" = 1'-0"

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SECOND FLOOR LIGHTING

PLAN DATE PROJECT NUMBER

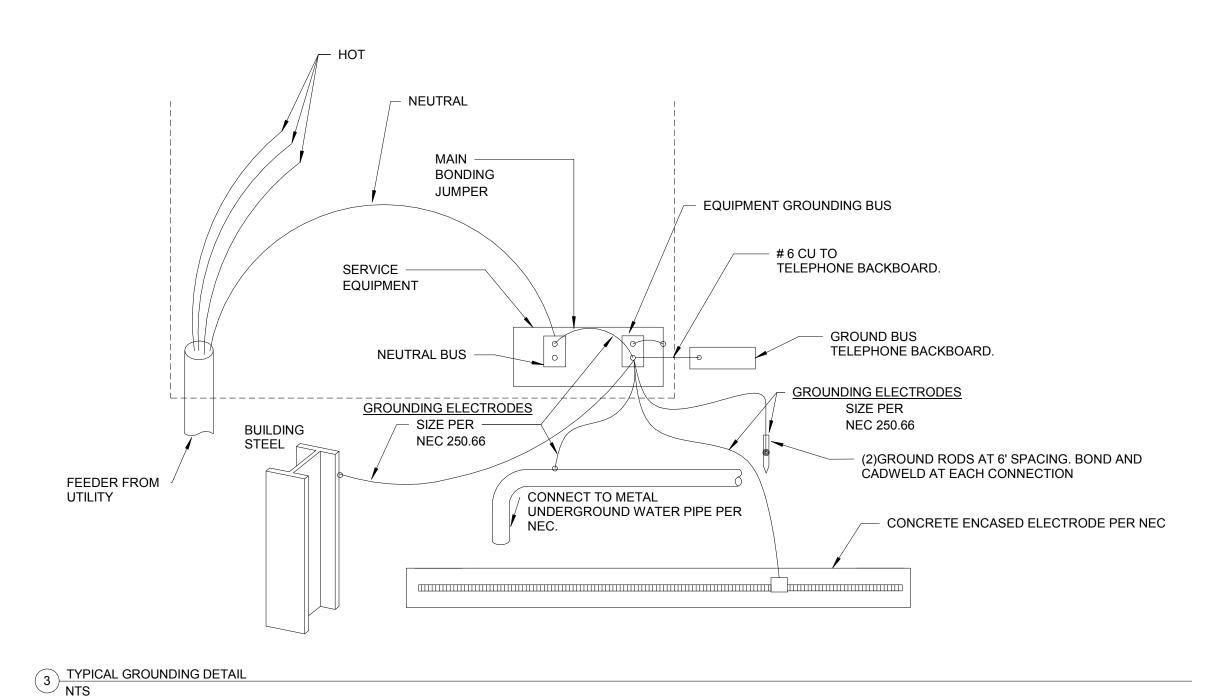
LUMINAIRE SCHEDULE

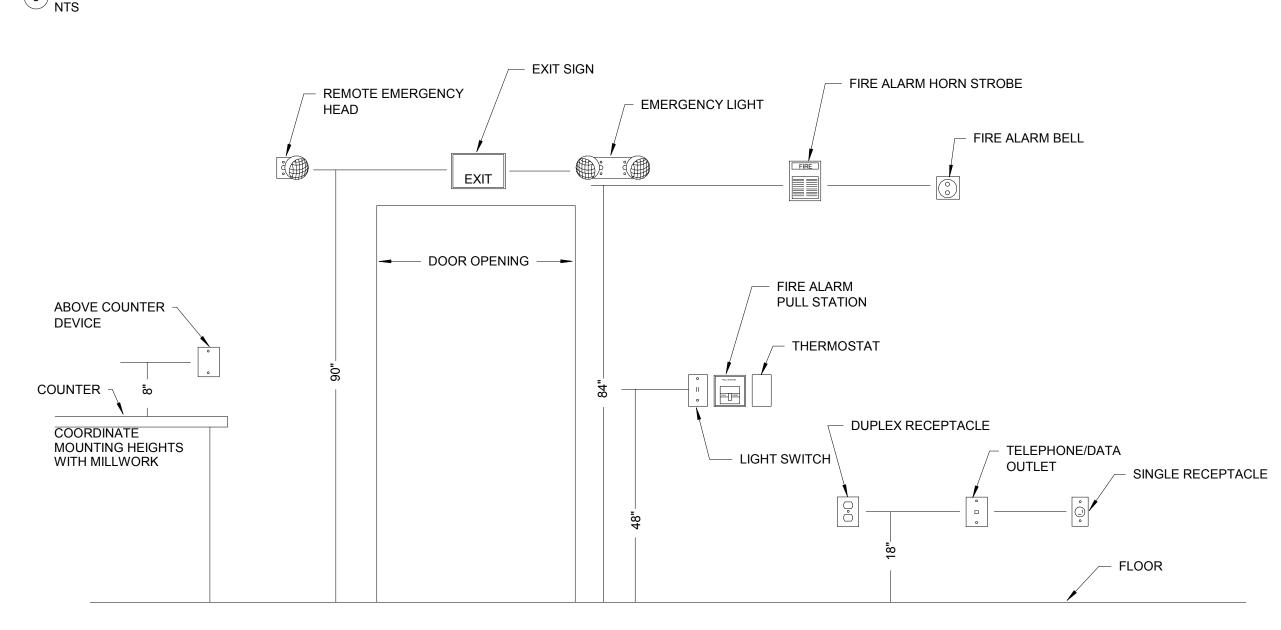
1. EC SHALL PROVIDE A SUBMITTAL PACKAGE INCLUDING CUTSHEETS FOR EACH FIXTURE. 2. EC SHALL PROVIDE ALL ACCESSORIES FOR A COMPLETE ASSEMBLY INCLUDING MOUNTING HARDWARE

2 TYPICAL MOUNTING HEIGHT NTS

3.	. THE MOUNTING TYPE OF EACH FIXTURE SHALL BE COMPATIBLE WITH INSTALLATION SURFACE OF EAC
4	. ALL FINISHES SHALL BE COORDINATED WITH ARCHITECT AND DOCUMENTED ON SUBMITTALS.

	Г			T	1	T	
TYPE	LAMP	BALLAST / DRIVER	VOLTS	WATTS	DESCRIPTION	MANUFACTURER	QTY
C01	LED	0-10V DIM	120/277	18 W	6", RECESSED, DOWNLIGHT, SQUARE TRIM, 1800LM	PORTFOLIO LDSQ6	
CL1	LED	24V POWER SUPPLY	120	20 W	MILLWORK LIGHTING, 3000K	FEELUX MONORAIL WASH MNP1	
√ D01	LED	0-10V DIM	120/277	34 W	8' LINEAR SURFACE MOUNT, 3000K	EUREKA LIGHTING STROKE 3542-96	
E 01	LED	BATTERY	120/277	10 W	EMERGENCY LIGHT, BUGEYE	SURE LITES - APEL	
EX01	LED	BATTERY	120/277	15 W	EXIT/EMERGENCY COMBO, RED LETTERS, WHITE	SURE LITES - APC7	
FP1	LED	0-10V DIM	120/277	50 W	2X4 FLAT PANEL, 5000LM, 3000K	TEXAS FLUORESCENTS LED FLAT PANEL	
FP2	LED	0-10V DIM	120/277	40 W	2X2 FLAT PANEL, 4000LM, 3000K	TEXAS FLUORESCENTS LED FLAT PANEL	
LC1	LED	0-10V DIM	120/277	8 W	ASYMMETRICAL COVE, 1', 3000K, 700LM	i2SYSTEMS CAS i2COVE	
LC2	LED	0-10V DIM	120/277	40 W	COVE LIGHT, 3000K, 588LM/FT	FINELITE SERIES 11 LED MICRO PROFILE COVE WITH TELESCOPING END	
LC3	LED	0-10V DIM	120/277	40 W	COVE LIGHT, 3000K, 588LM/FT	FINELITE SERIES 11 LED MICRO PROFILE COVE WITH TELESCOPING END	
LSR1	LED	0-10V DIM	120/277	70 W	10' RECESSED, TRIMLESS, LINEAR SLOT, 3000K, 2200LM/4FT	LEDALITE PHILIPS TRUGROOVE STANDALONE 39S1	
LSR2	LED	0-10V DIM	120/277	168 W	24' RECESSED, TRIMLESS, LINEAR SLOT, 3000K, 2200LM/4FT	LEDALITE PHILIPS TRUGROOVE STANDALONE 39S1	
LSR3	LED	0-10V DIM	120/277	42 W	6' RECESSED, TRIMLESS, LINEAR SLOT, 3000K, 2200LM/4FT	LEDALITE PHILIPS TRUGROOVE STANDALONE 39S1	
LSR4	LED	0-10V DIM	120/277	56 W	8' RECESSED, TRIMLESS, LINEAR SLOT, 3000K, 2200LM/4FT	LEDALITE PHILIPS TRUGROOVE STANDALONE 39S1	
P01	INC	STANDARD	120/277	100 W	PIT LIGHT, 1600LM, 2700K	ALL PRO VAPORTIGHT FLOODLIGHT	
S01	LED	LED DRIVER	120/277	44 W	4' SURFACE STRIP, 4000LM	METALUX - SLSTP	
SC01	LED	STANDARD	120/277	60 W	DECORATIVE EXTERIOR WALL FIXTURE,	HINKLEY LIGHTING WORK 1845BK	1 1 1 1 1
TH2	LED	TRAILING EDGE	120/277	18 W	LED TRACK HEAD, 1300LM, 3000K, 98CRI	LIGHTOLIER OMNISPOT LC-10-930-W-TE LLM-RNF, 120 REFLECTORS, 200 SPREAD LENSES, 200 LIGHT BLOCKING SCREENS	200
TRK1	NA	STANDARD	120/277	0 W	RECESSED TRACK, 2-CIRCUIT, TRIMLESS	LIGHTOLIER ADVENT TRACK 61xMCE AND 7516 LYTESPAN RECESSED HOUSING	220'
TRK2	NA	STANDARD	120/277	0 W	SURFACE TRACK, 2-CIRCUIT, PENDANT MOUNT	LIGHTOLIER ADVENT TRACK 61xMCE	450
TRK3	NA	STANDARD	120/277	0 W	PENDANT MOUNTED TRACK, 1-CIRCUIT	LIGHTOLIER ADVENT TRACK 61xMCE W/ PENDANT KIT	20'
X01	LED	BATTERY	120/277	5 W	EXIT SIGN, EDGELIT, RED LETTERS, WHITE, EMERGENCY	SURE LITES - EUX7	





LIGHTING CONTROL PANEL ZONE SCHEDULE DIM (Y/N) DIM TYPE PANEL ID CIRCUIT ZONE DESCRIPTION ZONE # 1ST FLOOR - WELCOME LOBBY - LINEAR NORTH LB-38 LCP1-1 0-10V LB-29 LCP1-2 1ST FLOOR - WELCOME LOBBY - LINEAR MAIN Y 0-10V 1ST FLOOR - WELCOME LOBBY - LINEAR SOUTH LB-33 0-10V LCP1-3 2ND FLOOR - STAIR LB-35 0-10V LCP1-4 LCP1-5 2ND FLOOR - COVE LB-32 0-10V 1ST FLOOR - WELCOME LOBBY - CASE LIGHTING LB-31 LCP1-6 0-10V LB-19 LCP1-7 1ST FLOOR - VESTIBULE 113 Y 0-10V 2ND FLOOR - GALLERY - LINEAR LB-26 0-10V LCP1-8 Y GALLERY 202 EXHIBIT CASEWORK L1-56 LCP1-9 N GALLERY 202 EXHIBIT CASEWORK L1-54 LCP1-10 1ST FLOOR - WELCOME LOBBY - TRACK DIMMED LB-36 LCP2-1 ELV 12 LB-36 LCP2-2 1ST FLOOR - WELCOME LOBBY - TRACK SWITCHED N 1ST FLOOR - CHANGING GALLERY - TRACK A - DIMMED LB-42 LCP2-3 13 ELV 14 LB-42 LCP2-4 1ST FLOOR - TEMP GALLERY - TRACK A - SWITCHED N LCP2-5 15 LB-40 Y ELV 1ST FLOOR - TEMP GALLERY - TRACK B - DIMMED 16 1ST FLOOR - TEMP GALLERY - TRACK B - SWITCHED LB-40 LCP2-6 17 2ND FLOOR - GALLERY - TRACK DIMMED - WEST LB-34 ELV LCP2-7 Y 18 2ND FLOOR - GALLERY - TRACK SWITCHED - WEST LB-34 N LCP2-8 LB-11 ELV LCP2-9 19 2ND FLOOR - LOBBY - TRACK DIMMED Y 20 LB-11 LCP2-10 2ND FLOOR - LOBBY - TRACK SWITCHED N LB-22 21 2ND FLOOR - GALLERY 204 - TRACK DIMMED ELV LCP2-11 2ND FLOOR - GALLERY 204 - TRACK SWITCHED LB-22 LCP2-12 22 N -23 LB-24 LCP2-13 2ND FLOOR - GALLERY 205 - TRACK DIMMED ELV Y 24 2ND FLOOR - GALLERY 205 - TRACK SWITCHED LB-24 LCP2-14 N 25 2ND FLOOR - GALLERY 206 - TRACK DIMMED LB-37 ELV LCP2-15 Y 2ND FLOOR - GALLERY 206 - TRACK SWITCHED LB-37 LCP2-16 27 2ND FLOOR - GALLERY 207 PERIMETER- TRACK DIMMED LB-39 Y ELV LCP2-17 28 2ND FLOOR - GALLERY 207 PERIMETER- TRACK SWITCHED LB-39 LCP2-18 N 29 2ND FLOOR - GALLERY 207 A - TRACK DIMMED LB-30 Y ELV LCP2-19 30 2ND FLOOR - GALLERY 207 A - TRACK SWITCHED LB-30 LCP2-20 N LB-28 LCP2-21 31 2ND FLOOR - GALLERY 207 B - TRACK DIMMED ELV 32 LB-41 LCP2-22 2ND FLOOR - GALLERY 207 C - TRACK DIMMED ELV 33 LB-41 LCP2-23 2ND FLOOR - GALLERY 207 C - TRACK SWITCHED N 34 L1-60 LCP2-24 GALLERY 202 EXHIBIT CASEWORK N L1-55 LCP2-25 35 GALLERY 202 EXHIBIT CASEWORK N 36 L1-62 LCP2-28 GALLERY 205 EXHIBIT CASEWORK N 37 GALLERY 207 EXHIBIT CASEWORK L1-53 N LCP2-29

GALLERY 207 EXHIBIT CASEWORK

GALLERY 205 EXHIBIT CASEWORK

GALLERY 205 EXHIBIT CASEWORK

38

39

CONDUIT SIZED BASED ON CONDUCTOR PROPERTIES

TABLES 5 AND 5A, AND CONDUIT AREAS LISTED

CONDITIONS MAY REQUIRE A LARGER CONDUIT,

SUCH AS UNDERGROUND PVC, SIZED FOR NEC.

CONDUCTOR BASED ON NEC TABLE 250.122 -

COPPER / GROUNDING ELECTRODE CONDUCTOR

8. CONDUCTOR SIZES BASED ON NEC TABLE 310.15 -

ELECTRICAL FEEDER

KEYNOTES

ELECTRICAL SERVICE NOTES

RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AS

REQUIRED BY THE SERVING UTILITY AS WELL AS COST INCURRED BY

ADJUST THE ELECTRICAL PANEL AIC RATINGS TO THE NEXT HIGHER

OWNER. CONTRACTOR TO CONTACT ENGINEER FOR SIZING. WHERE

ALUMINUM WIRE WILL EXPAND AND CONTRACT AND OVER TIME MAY BECOME BRITTLE. THE OWNER SHALL ASSUME RESPONSIBILITY FOR USING

COORDINATE ALL SERVICE AND METERING DETAILS INCLUDING ANY

RELOCATION OF EXISTING UTILITY LINES WITH POWER COMPANY.

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL SERVICE AND METERING

THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FAULT CURRENT AT THE SECONDARY OF THE TRANSFORMER WITH THE UTILITY COMPANY AND

ALUMINUM SERVICE CONDUCTORS ARE NOT RECOMMENDED AND SHOULD ONLY BE USED WHERE ABSOLUTELY NECESSARY OR REQUIRED BY THE

ALUMINUM CONDUCTORS ARE USED, THE OWNER SHALL PROVIDE ANNUAL

MAINTENANCE OF ALL TERMINATIONS TO ENSURE SECURE CONNECTIONS.

ALUMINUM CONDUCTORS WITHOUT PROPER INSTALLATION, CARE, AND

CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC

PAY ANY POWER COMPANY FEES CHARGED TO OWNER FOR SERVICE AND

FURNISH AND INSTALL MATERIALS FOR A TEMPORARY CONSTRUCTION

FURNISH AND/OR INSTALL ALL REQUIRED MATERIAL AND LABOR IN COMPLIANCE WITH POWER COMPANY REQUIREMENTS TO PROVIDE A COMPLETE ELECTRICAL SERVICE, INCLUDING TRENCHING AND BACK FILLING, PRIMARY CONDUIT, CONCRETE TRANSFORMER PAD, SECONDARY CONDUITS AND CABLES, C.T. CABINET, METERING AND GROUNDING SYSTEM

UTILITY LINE WORK ASSOCIATED WITH THIS PROJECT. THESE COSTS SHALL

TO EXISTING UTILITY SERVICE

PROVIDE METER AT EXISTING

1 RISER DIAGRAM N.T.S.

TRANSFORMER

REQUIREMENTS WITH THE UTILTY COMPANY PRIOR TO BID AND SHALL BE

. GROUND SIZES: EQUIPMENT GROUNDING

BASED ON NEC TABLE 250.66 - COPPER

2"C,4#3/0,1#6 GR

840-4-S 2 - 3 1/2"C,4-600KCMIL EACH

COPPER 75°C.

SERVING UTILITY

STANDARD RATING.

MAINTENANCE

BE INCLUDED IN BIDS.

SERVICE AS REQUIRED.

UTILITY.

LISTED IN THE CURRENT NEC EDITION, CHAPTER, 9,

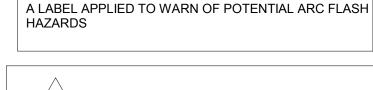
CHAPTER 9. TABLE 4 FOR EMT WITH 40% FILL. OTHER

LCP-32 **EQUIPMENT LABELS**

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE

LCP-30

LCP-31





WARNING

ARC FLASH AND SHOCK HAZARD APPROPRIATE PERSONAL PROTECTIVE **EQUIPMENT (PPE)** REQUIRED.

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED. SIMILAR TO THE ABOVE. TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

L2 200-4 SECOND FLOOR SERVICE ENTRANCE RATED 200-4 **GROUND FLOOR** PUSHBUTTON 200-4 SHUNT TRIP **EXTERIOR** BASEMENT

L2-17

L1-22

L1-17

N

N

PER 840-4-S

> 1604-003 02/09/18

Notes:

1. SCALE. DO NOT SCALE DRAWINGS. 2. CODES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES.

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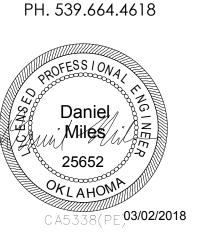
PRECAUTIONS OR SAFETY PROGRAMS USED TO PROVIDE A SAFE WORKING ENVIRONMENT ON THE JOB SITE, REFERENCE SPECIFICATIONS FOR SAFETY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING AND BRACING DURING ALL PHASES OF CONSTRUCTION.

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SIGNED AND SEALED BY THE ARCHITECT. 10. RECYCLE BINS TO BE PROVIDED FOR WORKERS DURING CONSTRUCTION.

HP ENGINEERING INC 1836 South Baltimore Avenue Tulsa, OK 74119



GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



ELECTRICAL SCHEDULES, **DETAILS AND RISER** PROJECT NUMBER

Branch Panel: L1

NEW

Volts: 120/208 Wye Supply From: MDP Mounting: FLUSH Wires: 4 Enclosure: NEMA 1

A.I.C. Rating: FULLY Mains Type: MLO Mains Rating: 200 A

СКТ	Load Name	СВ	Р	Wire		4	E	3	(c	Wire	Р	СВ	Load Name	
1	SP-1	20	1		500	0						1	20	EXTERIOR GFI RECEP	2
3	ELEVATOR MAINTENANCE RECEP	20	1				180	0				1		EXTERIOR GFI RECEP	4
5	WOMENS TOILETS/SINKS	20	1						2000	0		1		EXTERIOR GFI RECEP	6
7	SHUNT TRIP				0	0						1		EXTERIOR LIGHTING TIMECLOCK	8
9	MENS TOILETS/SINKS	20	1				1500	0				1		EXTERIOR LIGHTING	10
11	EWH-1	20	1						2000	0		1		EXTERIOR LIGHTING	12
13	CP-1	20	1		180	0						1		EXTERIOR LIGHTING	14
15	GALLERY 207 EXHIBIT	20	1				500	0				1		EXTERIOR LIGHTING	16
17	EXHIBIT GALLERY 205	20	1						500	0		1		Spare	18
19	Space				0	460						1		OFFICE, MECH, IT LIGHTING	20
21	Space						0	500				1		EXHIBIT GALLERY 205	22
23	Space								0	324		1	20	WOMENS BATHROOM LIGHTING	24
25	MENS BATHROOM LIGHTING	20	1		304	144				<u></u>		1	20	BACK STAIR LIGHTING	26
27	Space						0	0						Space	28
29	Space								0	0		1	20	Spare	30
31	Space				0	0						1	20	Spare	32
33	Space						0	0				1		Spare	34
35	Spare	20	1						0	0		1		Spare	36
37	Spare	20	1		0	240			_ <u> </u>			1		EXTERIOR SCONCES	
39	WELCOME LOBBY POS	20	1			240	720	0						Space	38 40
41	HVAC MAINTENANCE	20	1				720		180	0				Space	
43	Spare	20	1		0	900			100	-		1	20	WELCOME LOBBY RECEPTACLES	
45	WELCOME LOBBY RECEPTACLES	20	1		U	300	720	540				1		CHANGING GALLERY RECEPS	44
47	STORAGE 103	20	1				120	340	360	720		1		ENTRY 101 DOOR ACCESS	48
49	WELCOME LOBBY FLOOR BOX	20	1		500	720			300	120		1		OFFICE 104	50
51	RECEPTION DESK	20	1		300	120	720	0				<u> </u>		Space	52
53	EXHIBIT EARLY GOVERNMENT	20	1				120	U	500	500		1		EXHIBIT GALLERY 203	54
55	EXHIBIT GALLERY 202	20	1		500	1000			300	300		1		EXHIBIT GALLERY 202	56
57	Spare	20	1		300	1000	0	1260				1		VESTIBULE 113 DOOR ACCESS/RECEP	58
59	HAND DRYER	20	1				U	1200	360	500		1		EXHIBIT GALLERY 201	60
61	CB-1	20	1		180	500			300	300		1		EXHIBIT GALLERY 205	62
63	HAND DRYER	20	1		100	300	360	180				1		EWC-1 (4)	64
65	RESTROOM RECEPS	20	1				300	100	720	2000		1		CHANGING GALLERY CEILING RECEPS	66
67	CHANGING GALLERY RECEPS	20	1		720	180			120	2000		1		STORAGE 106	68
69	Spare	20	1		120	100	0	360				1		CHANGING GALLERY RECEPS	70
71	Spare	20	1				U	300	0	0		1		Spare	72
	Ġ.				0	360			U	U		1		PHONE BOARD	
	Spare WELCOME LOBBY CEILIGN RECEPS	20	1		0	360	1000	360				1			74
	OFFICE 104 RECEPS	20					1000	300	360	540		1	20 IT RACK 20 CORRIDOR 109 RECEP		78
	Spare	20	1		0	2000			300	540					80
	•			82											
81	Spare Spare	20	1				0	2000	0	0		1	20	Spare	84
03	Opaic				000	0.1/4	4000	0.1/4						Ομαίτ	04
		_'	otal	Load:	9388	8 VA	1090	0 VA	1156	4 VA					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Lighting	1004 VA	125.00%	1255 VA		
Other	468 VA	100.00%	468 VA	Total Conn. Load:	31852 VA
Power	18100 VA	100.00%	18100 VA	Total Est. Demand:	30963 VA
Receptacle	12280 VA	90.72%	11140 VA	Total Conn. Current:	88 A
				Total Est. Demand	86 A

Total Amps: 78 A

Branch Panel: LB

NEW

Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1

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

A.I.C. Rating: FULLY Mains Type: MLO Mains Rating: 200 A

СКТ	Load Name	СВ	Р	Wire		A	ı	3	(С		Р	СВ	Load Name	СКТ
1	- EH-2	25	2	#10	2000	2000					#10	2	25	EH-1	2
3	En-2	25	-	#10			2000	2000			#10	2	25	E -	4
5	FACP(3)	20	1						180	180		1	20	SECURITY PANEL	6
7	LIGHTING RELAY PANEL	20	1		180	360						1	20	MECH/ELEC 111 QUAD	8
9	AV RACK	20	1				360	360				1	20	MECH/ELEC 111 QUAD	10
11	LOBBY 210 TRACK LIGHTING	20	1						324	900		1	20	CHANGING GALLERY RECEPS	12
13					3862	360						1	20	BAS	14
15	P-2	45	3	#8			3862	3862							16
17									3862	3862	#8	3	45	P-1	18
19	VESTIBULE/CORRIDOR 109 LIGHITNG	20	1		236	3862									20
21	ELEVATOR CAB LIGHTS	20	1				500	306				1	20	GALLERY 204 TRACK LIGHTIN	22
23	BASEMENT LIGHTING	20	1						444	540		1	20	GALLERY 205 TRACK LIGHTING	24
25	BASEMENT RECEPTACLES	20	1		720	346						1	20	2ND LEVEL GENERAL LIGHTING	26
27	INVERTER	20	1				500	342				1	20	GALLERY 207 BRIDGE TRACK LIGHTING	28
29	WELCOME LOBBY 102 DOWNLIGHT	20	1						546	432		1	20	GALLERY 207 TRACK LIGHITNG	30
31	RECPTION DESK LIGHTING	20	1		500	240						1	20	LOBBY 210 COVE LIGHTING	32
33	WELCOME LOBBY 102 DOWNLIGHT	20	1				210	578				1	20	GALLERY LIGHTING 201,202,203	34
35	FRONT STAIR LIGHTING	20	1						112	630		1	20	WELCOME LOBBY 102 TRACK LIGHTING	
37	Lighting	20	1		500	210						1	20	WELCOME LOBBY 102 DOWNLIGHT	38
39	GALLERY 207 TRCK LTG PERIMETER	20	1				306	630				1	20	CHANGING GALLERY 105 TRK	40
41	GALLERY 207 TRACK LIGHTING	20	1						216	630		1	20	CHANGING GALLERY 105 TRK	42
		T	otal	Load:	1537	77 VA	1581	7 VA	1285	9 VA					· ·

Connected Load	Demand Factor	Estimated Demand	Panel	Totals
7490 VA	125.00%	9363 VA		
288 VA	100.00%	288 VA	Total Conn. Load:	44052 VA
33034 VA	100.00%	33034 VA	Total Est. Demand:	45925 VA
3240 VA	100.00%	3240 VA	Total Conn. Current:	122 A
			Total Est. Demand	127 A
	7490 VA 288 VA 33034 VA	7490 VA 125.00% 288 VA 100.00% 33034 VA 100.00%	7490 VA 125.00% 9363 VA 288 VA 100.00% 288 VA 33034 VA 100.00% 33034 VA	7490 VA 125.00% 9363 VA 288 VA 100.00% 288 VA Total Conn. Load: 33034 VA 100.00% 33034 VA Total Est. Demand:

Total Amps: 131 A 135 A 107 A

Branch Panel: L2

Supply From: MDP Mounting: FLUSH

Enclosure: NEMA 1

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

NEW

A.I.C. Rating: FULLY Mains Type: MLO Mains Rating: 200 A

\langle																
/	CKT	Load Name	CB	Р	Wire	4	4	l I	В		3	Wire	Р	СВ	Load Name	CK
\	1	GALLERY 206 EXHIBIT	20	1		1000	720						1	20	GALLERY 206 RECEPS	2
)	3	GALLERY 205 RECEPS	20	1				540	180				1	20	LOBBY 210 RECEP	4
(5	GALLERY 205 RECEPS	20	1						720	180		1	20	TV	6
)	7	GALLERY 204 FLOOR JUNCTION BOXES	20	1		1040	1500						1	20	GALLERY 202 CEILING RECEPS	8
ĺ	9	PROJECTOR	20	1				180	500				1	20	EXHIBIT GALLERY 207	10
)	11	EXHIBIT GALLERY 207	20	1						1500	900		1	20	GALLERY 207 RECEPS	12
/	13	EXHIBIT GALLERY 207	20	1		500	540						1	20	GALLERY 206 RECEPS	14
ζ.	15	GALLERY 206 RECEPS	20	1				720	1000				1	20	GALLERY 207 EXHIBIT	16
)	17										500		1	20	GALLERY 207 CEILING RECEP	18
(19	LOBBY 210 CEILING RECEP	20	1		500	500						1	20	GALLERY 205 FLOOR BOX	20
)	21	GALLERY 207 RECEPS	20	1				180	1850			#10	2	25	HU-3	22
ĺ	23	HU-4	25	2	#10					1850	1850	#10	2	25	Ino-3	24
`	25	HU-4	25	2	#10	1850	1850					#10	2	25	HU-2	26
/	27	HU-1	25	2	#10			1850	1850			#10		25	nu-2	28
ζ	29	nu-1	25	2	#10					1850	500		1	20	GALLERY 206 EXHIBIT	30
)	31	Spare	20	1		0	0								Space	32
ĺ	33	Spare	20	1				0	0						Space	34
)	35	Spare	20	1						0	0				Space	36
/	37	Spare	20	1		0	0								Space	38
`	39	Spare	20	1				0	0						Space	40
)	41	Spare	20	1						0	0				Space	42

Total Load: | 10000 VA | 8850 VA | 9850 VA Total Amps: 85 A 74 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Power	21920 VA	100.00%	21920 VA		
Receptacle	6780 VA	100.00%	6780 VA	Total Conn. Load:	28700 VA
				Total Est. Demand:	28700 VA
				Total Conn. Current:	80 A
				Total Est. Demand	80 A

NEW

Volts: 120/208 Wye

Phases: 3

Branch Panel: MDP

Location:

Mounting: SURFACE

Supply From:

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

Enclosure: NEMA 1 Notes: MCB W/ SHUNT TRIP

)															
١	СКТ	Load Name CB	Р	Wire	/	A		3	(С	Wire	Р	СВ	Load Name	СКТ
'	1				9333	0						1	20	Spare	2
	3	ELEVATOR MOTOR 110	3	#2			9333	0				1	20	Spare	4
)	5								9333	0		1	20	Spare	6
	7	SHUNT TRIP			0	0						1	20	Spare	8
1	9	WSHP - 1.2 50	2	#8			3848	3848			#8	2	50	WSHP - 1.1	10
	11	W3HF - 1.2		#0					3848	3848	#0		30	W3HF - 1.1	12
	13	WSHP-1.3 50	2	#8	3848	3848					#8	2	50	WSHP-1.4	14
	15	W3111 -1.3		#0			3848	3848			#0	#0 2	30	VVOI II - 1. 4	16
	17								9388	100					18
)	19	L1 200	3	(8)	109	8850					(8)	3	200	L2	20
	21						115	9850							22
)	23	WSHP - 1.8 50	2	#8					3848	3848	#8	2	50	WSHP - 1.7	24
	25	VVG111 1.0		#0	3848	3848					"0		00	1.7	26
١	27	WSHP - 1.5 50	2	#8			3848	3848			#8	2	50	WSHP - 1.6	28
	29	VVG111 1.0		#0					3848	3848	<i>"</i> O		00	1.0	30
	31				8876	2600					#8	2	35	ERV-1	32
)		DOAS-1 100	3	#3			8876	2600			,, 0	_	- 50		34
	35								8876	153					36
)	37 39	MCU-1 30	2	#10	1872	158					(8)	3	200	LB	38
				,, 10			1872	128							40
	41	Space							0	0				Space	42

Total Load: 73640 VA 80042 VA 76062 VA **Total Amps:** 614 A 670 A 637 A

	Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
)	Lighting	8494 VA	125.00%	10618 VA		
١	Other	756 VA	100.00%	756 VA	Total Conn. Load:	229744 VA
)	Power	198194 VA	100.00%	198194 VA	Total Est. Demand:	225718 VA
١	Receptacle	22300 VA	72.42%	16150 VA	Total Conn. Current:	638 A
)					Total Est. Demand	627 A

PANELBOARD NOTES (#)

- 1. TERMINATE GROUND ON ISOLATED GROUND BUS. 2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE). 3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
- 4. GFI BREAKER FOR PERSONNEL PROTECTION (5 mA). 5. GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA). 6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC.
- REFERENCE GROUND WIRE SIZING CHART. 7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
- 8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES. 9. FACTORY WIRED TO LOAD. 10. THRU CONTROLLER. REFER TO LIGHTING
- CONTROLLER DETAIL. 11. ADD CIRCUIT BREAKER TO EXISTING PANEL.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

BRKR AMPS			WIF	RE SIZE		
15-20	PHASE GROUND	12 12	10 10	8 8	6 6	4
25-30	PHASE GROUND	10 10	8 8	6 6	4 4	3
35-50	PHASE GROUND	8 10	6 8	4 4	3 4	2
60	PHASE GROUND	6 10	4 6	3 6	2 4	1
70	PHASE GROUND	6 8	4 4	3 4	2 3	1 2
80-90	PHASE GROUND	4 8	3 6	2 4	1 4	1/
100	PHASE GROUND	3 8	2 6	1 4	1/0 4	2/
PER NE	EC 250.122(E	3)	1		1	

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ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE COMPLIANCE WITH SAID CODES. 3. DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY ALL

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- 10. RECYCLE BINS TO BE PROVIDED FOR WORKERS DURING CONSTRUCTION.

HP ENGINEERING INC. 1836 South Baltimore Avenue Tulsa, OK 74119 PH. 539.664.4618



GENERAL INFORMATION: - CODE: 2015 IEBC, 2015 IBC - USE GROUP: A-3 - SPRINKLER STATUS - TO BE INSTALLED - FIRE ALARM - TO BE INSTALLED

ADDENDUM 01 - 03.02.18

CONSTRUCTION DOCUMENTS FOR:

CNE - CAPITOL BUILDING INTERIOR RENOVATION 100 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464



ONE architecture 1319 e. 6th st Tulsa, Oklahoma 74120 PH. 918.764.9996

PANEL SCHEDULES AND **ELECTRICAL DETAILS**

PROJECT NUMBER 1604-003

E302