Issued to - All Bidders of Record:

Project: Sullivan County Freestanding MOB - 23987.02

Date Issued: 03/28/24

This Addendum along with its attachments forms a part of the Contract Documents and modifies the Construction Documents, dated 02.28.2024, as noted below. The work reflected in this addendum is to be incorporated into the proposed Contract Sum and Time as if originally issued. Bidders must acknowledge receipt of this Addendum on the Bid Form.

Addendum No. 03 For Sullivan County Freestanding MOB

This Addendum consists of FOUR (4) pages and SEVEN (7) attachments.

This addendum is in three parts as follows:

Part I Clarifications Part II Pertaining to the Project Manual. Part III Pertaining to the Drawings

PART I – CLARIFICATIONS:

- 1. Is the Commissioning agent noted in the specifications identified and is there a matrix of the contractor's responsibility?
 - a. Reference reissued sheet M0.0.
- 2. There is a discrepancy between the IT conduits on the enlarged electrical room plans and the site/electrical/ telecom plans.
 - a. Reference reissued sheets ES1-1 and T1.0.
- 3. Please confirm that the Phase 1 contractor will be responsible for fine grading, proof roll or testing, to the designed elevation for the building pad, ready for vapor barrier and slab on grade by the Phase 2 GC.
 - a. Phase 1 contractor will construct pad subgrade to 8" below design FFE.
- 4. As well as fine grade of the parking lot, ready for Phase 2 asphalt.



JJCA

Addendum

To: All Bidders

CC: Stephanie Pielich - JJCA From: Harold Hadlock - JJCA

Subject: Addendum 03

Date: March 28, 2024

Sullivan County Freestanding MOB - 23987.02 Subject: Addendum - JJCA Date: March 19, 2024 Page 2



- a. Phase 1 contractor will fine grade stone to plan grade, however we do recommend Phase 2 contractor to include some amount of fine "regarding" before the asphalt paving given there will be a considerable amount of time where construction traffic will be driving across and potentially storing and handling materials for the construction of the building shell. In other words, Phase 2 contractor is responsible to repair any damaged portions to fine stone before paving.
- Will the Phase 2 GC be responsible for the sequencing of the completion of Phase 1 final grading?
 a. No.
- 6. On Drawing sheet A1.1d it indicated the areas that receive the build-out, however on the foundation plan drawing sheet S1.1 part of the build-out area doesn't appear to receive a slab. Please advise.

a. Slab to match A1.1d. Reference reissued sheet S1.1.

- 7. Can't seem to locate the footing schedule for the covered canopies (calls for some F3 spread footings, assume we would have piers also). Please advise.
 - a. Reference reissued sheet S1.1.
- 8. Spec Section 22-0700, Plumbing Insulation, Paragraph 2.02, Section A, states that we are to use premolded fittings on 2-1/2" and larger pipe. Would PVC Fittings and Fiberglass Inserts be able to be used instead?
 - a. Not acceptable for piping fittings 2 ¹/₂" and larger. This may be used only on piping fittings 2" and less, per specifications.
- Spec Section 22-0700, Plumbing Insulation, Paragraph 3.03, Section A, states that Foam-glass or Cal-Sil supports are to be used on 2" and larger pipe? Would Fiberglass Blocks with Aluminum Saddles/Shields be able to be used?
 - a. Not acceptable for pipe 2" and larger. Provide inserts per specifications.
- 10. Spec Section 22-0700, Plumbing Insulation, Paragraph 3.03, Section A, states that piping should be exposed (within 8 feet of Finished Floor) in mechanical rooms to get canvas jacket. Would an ASJ Jacket be able to be used instead of Canvas Jacket?
 - a. ASJ jacket is considered a vapor barrier and may not be used as a jacket to prevent insulation damage for exposed piping. Provide jacket per specifications.
- 11. Spec Section 23-0700, HVAC Insulation, Paragraph 2.01, Section B.1 & B.2, states that's ductwork is to be sealed with staples and a vapor barrier sealant Foil Tape is NOT allowed. Is 4" wide Foil Tape acceptable instead of Staples & Mastic?
 - a. Foil tape is not allowed per specification.
- 12. Verify the R-Value is R-20 for the roof insulation.

Sullivan County Freestanding MOB - 23987.02 Subject: Addendum - JJCA Date: March 19, 2024 Page 3



- a. R-value of 23 is to be maintained as specified on index. Provide thickness as required per specified product.
- 13. 07-5400, 2.03.A.1 describes membrane as reinforcing fabrics or scrims (not a fleece on back) this membrane is typically used on new construction, and we believe the intent of the design. Please confirm.
 - a. FleeceBACK also falls into this category and is to be provided as specified.
- 14. 07-5400, 2.04.1A.2 indicate a 25 PSI insulation. This is not typical where a deck does not have overburden weight. The standard is 20 PSI, please confirm acceptability.
 - a. 25 PSI is desired for additional hail resistance.
- 15. 07-5400, 2.04.A.3 describes 1 ¹/₂" of ISO as being R-8, per Carlisle insulation chart, this is R-8.6. Please clarify R-20 should be 3.5" of ISO for entire roof assembly.
 - a. R-value of 23 is to be maintained as specified on index. Provide thickness as required per specified product. 2.04.A.3 notes a minimum.
- 16. 07-5400,3.04.B, describes all the roof insulation being set in adhesive. This is very odd for insulation over a wood deck; over a concrete deck this would be a common spec design. This adhesion is also unnecessary and drives up the material and labor significantly. Will mechanical attachment be accepted for the insulation? The roof membrane will remain adhered.
 - a. Mechanically attached insulation is acceptable. Modify system as required by manufacturer for other components.
- 17. The counter flashing is being specified stainless steel. (Detail 4 on A4.2). We believe this counter flashing should be the same as coping/edge material. (Kynar coated 24GA steel) Stainless is very expensive and typically no longer used in the roofing industry.

a. Per Detail 4/A4.2, the receiver is stainless steel and the flashing insert is aluminum.

18. 07-5400, 2.0.A.1. Lists Carlisle FleeceBACK adhered TPO (a membrane typically used on reroofing existing buildings).

a. Provide as specified.

- 19. Is there a schedule for this project? If no, what is a rough idea when roofing would start?a. To be determined by general contractor.
- 20. Will there be drywall attached to the bottom of the wood truss? If so, will the attic space be heated?a. Please refer to Addendum No. 02 questions #32 and #33 for clarification.
- 21. Fire protection supplier is asking will there be heat above dropped ceiling to roof deck?
- 22. No floor drains shown in restroom. These are required by code.
- 23. Substitution submitted but NOT accepted.
 - a. 07-2100 Batt Insulation for spray foam insulation.

Sullivan County Freestanding MOB - 23987.02 Subject: Addendum - JJCA Date: March 19, 2024 Page 4



- b. 07-4229 Air Shield LMP WRMeadows.
- c. 07-5400 TPO 60mil Duro-last. Total system warranty not provided.
- d. 07-5400 TPO 60mil JM. Total system warranty not provided.
- e. If a total system warranty is available, then consideration possible after bid submission. Product not to be used in bid submission.

PART II – PERTAINING TO THE PROJECT MANUAL:

- 1. Reissued Section: 08-4229 Automatic Entrance, dated 03.28.2024.
 - a. Updated list for additional acceptable manufacturers.

PART III – PERTAINING TO THE DRAWINGS:

- 1. Revised sheet S0.1 in the Shell Set, dated 03.28.24.
 - a. Slight modification in the SS and S1 values.
- 2. Revised sheet S1.1 in the Shell Set, dated 03.28.24.
 - a. Modified the slab extents.
 - b. Added the footing schedule.
- 3. Revised sheet M0.0 in the Shell Set. dated 03.28.24.
 - a. Modified commissioning agent note.
- 4. Revised sheet M0.1 in the Shell Set, dated 03.28.24.
 - a. Modified Seismic Category.
- 5. Revised sheet ES1.1 in the Shell Set, dated 03.28.24.
 - a. Coordination between the IT conduits.
- 6. Revised sheet T1.0 in the Shell Set, dated 03.28.24.
 - a. Coordination between the IT conduits.

ATTACHMENTS: (drawing sheets are tagged in title block with "Addendum No. XX"

- S0.1 General Notes & Quality Assurance Plan Dated 03.28.24 (Shell)
- S1.1 Foundation Plan Dated 03.28.24 (Shell)
- M0.0 Mechanical Legend, Naming Convention and Index Dated 03.28.24 (Shell)
- M0.1 Mechanical Schedules Dated 03.28.24.
- ES1.1 Site Plan Shell Dated 03.28.24 (Shell)
- T1.0 Technology Plan Shell Dated 03.28.24 (Shell)

END OF ADDENDUM

Freestanding Medical Office Building for SCCH - 23987.02 Addendum 03

SECTION 08-4229 AUTOMATIC ENTRANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Packaged power-operated door assemblies of following types:1. Sliding type.
- B. Controllers, actuators and safety devices.
- C. Coordinate with glazing specified in Section 08-8000.
- D. Maintenance.

1.02 SUBMITTALS

- A. Follow Section 01-3323 for making construction submittals.
 - 1. Shop Drawings:
 - a. Indicate layout and dimensions; head, jamb, and sill conditions; elevations; components, anchorage, recesses, materials, and finishes, electrical characteristics and connection requirements.
 - b. Identify installation tolerances required, assembly conditions, routing of service lines and conduit, and locations of operating components and boxes.
 - 2. Product Data: Indicating all information which specifies full compliance with requirements of this section, including installation instructions.
 - 3. Certification: Manufacturer and installer are certified by American Association for Automatic Door Manufacturers (AAADM).
- B. Follow sections 01-7700 and 01-7800 for making closeout submittals.
 - 1. Warranty: As specified elsewhere within this section.
 - 2. Maintenance Data: Include manufacturer's parts list and maintenance instructions for each type of hardware and operating component.
 - 3. Maintenance Materials: Furnish wrenches and other tools required for maintenance of equipment.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than ten years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience and approved by manufacturer.
- C. Certification: All labor and equipment shall be provided by American Association for Automatic Door Manufacturers (AAADM) certified installers and distributors.

1.04 DELIVERY, HANDLING, STORAGE

A. Products shall be delivered to job-site in original unopened packages bearing manufacturer's labels.



Freestanding Medical Office Building for SCCH - 23987.02 Addendum 03

B. Store and protect products in accordance with manufacturer's recommendations. Maintain temperature and humidity within ranges required by manufacturer's instructions.

1.05 PRE-INSTALLATION CONFERENCE

A. Prior to starting roofing and exterior envelope work, the Contractor shall set up a job site meeting to comply with provisions of Section 01-3119 for the "Envelope and Roofing Pre-Installation Conference".

1.06 WARRANTY

- A. See Section 01-7800 Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.
- C. Provide two year manufacturer warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Sliding Automatic Entrance Door Assemblies:
 - 1. ASSA ABLOY Entrance Solutions; Besam SL500: www.besam-usa.com/#sle.
 - 2. Portalp USA; Diva Series: www.portalpusa.com/#sle.
 - 3. record-usa; 5100 Series: www.recorddoors.com/#sle. Add 03
 - 4. Stanley Access Technologies; Dura-Glide 2000 Sliding: www.stanleyaccesstechnologies.com/sle.
 - 5. Substitutions: See Section 01-2513 Product Substitution Procedures.

2.02 POWER OPERATED DOORS

- A. Power Operated Doors: Provide products that comply with NFPA 101 and requirements of authorities having jurisdiction; provide equipment selected for actual door weight and for light pedestrian traffic, unless otherwise indicated.
 - 1. Sliding and Folding Door Operators: In the event of power failure, provide for manual open, close, and break-away operation of door leaves.
 - Packaged Door Assemblies: Provide components by single manufacturer, factory-assembled, including doors, frames, operators, actuators, and safeties.
 a. Finish exposed equipment components to match door and frame finish.
 - 3. Air Leakage: Maximum of 1.0 cu ft/min/sq ft of wall area, when tested in accordance with ASTM E283 at 1.57 lbs/sq ft pressure differential across assembly.
 - Exterior and Vestibule Doors: Provide equipment and operator suitable for operating temperature range of minus 20 to plus 140 degrees F ambient. Operator shall be sealed against dust, dirt, and corrosion and lubricated to reduce wear and friction of moving parts.
- B. Sliding and Folding Doors with Full Power Operators: Comply with BHMA A156.10; safeties required; provide break-away operation unless otherwise indicated; in the event of break-away operation, interrupt power operation.

Freestanding Medical Office Building for SCCH - 23987.02

- 1. Comply with UL 325; acceptable evidence of compliance includes UL (DIR) listing.
- 2. Force Required to Swing Break-Away Panel: 50 pound-force, maximum, measured at 1 inch from the latch edge of the door at any point in the closing cycle.
- 3. Operator shall be belt-driven and complete with position controller and electronic control box factory-set to provide operating speeds and forces as prescribed by ANSI A156.10. Limit switches of any type not acceptable.
- 4. Control box in conjunction with position sensor shall automatically set the opening and closing speeds, the opening and closing check positions and the full open and fully closed position of the door system.
- 5. Time Delay: Door system shall provide a 0 to 30 seconds time delay.
- C. Operators:
 - 1. Electric Operators: 3/16 hp minimum, self-contained, gear driven, with release clutch.
 - a. Operator shall be readily convertible to any band required.
 - b. Drive train shall have positive constant engagement.
 - c. Close Speed Control: Accomplished by dynamic braking of the motor; fully adjustable.
 - d. Motor Protection Circuit: Provided by a locked door motor protection circuit that shuts off current if applied when the door is inadvertently locked or otherwise prevented from opening; power to the motor is restored when the on/off reset switch is turned on.
- D. Locks: Installed in accordance with NFPA 101 requirements and shall not interfere with egress.
 - 1. Key Lock: Cylinder type, keyed two sides.

2.03 AUTOMATIC ENTRANCE DOOR ASSEMBLIES

- A. Comply with applicable local building codes for egress requirements.
- B. Framing and Transom Members: Provide manufacturer's standard extruded aluminum framing, reinforced as required to support imposed loads.
 - 1. Nominal Sizes:
 - a. Single Slide and Bi-Parting Sliding Doors: 1-3/4 inch wide by 4-1/2 inch deep.
 - 2. Concealed Fastening: Provide concealed fastening pocket in framing, with continuous flush insert cover extending full length of each framing member.
 - 3. Transoms: Provide flush glazed transom with framing that is integral with automatic entrance framing system.
- C. Door and Sidelight Construction: Heavy duty interlocked extruded aluminum tubular stile and rail sections, through-rod bolted construction with steel corner support at hinge stile of carrier-suspended swinging panels or mechanically fastened corners with welded reinforcing brackets to reduce sag in sliding or breakout mode.
 - 1. Door Thickness: 1-3/4 inch, nominal.
 - 2. Stile Design:
 - a. Wide stile, 4 inch, nominal width.

Freestanding Medical Office Building for SCCH - 23987.02

Addendum 03

- 3. Top Rail Height: 4 inch, nominal.
- 4. Bottom Rail Height: 10 inch, nominal.
- 5. Glazing Stops: Manufacturer's standard snap-on extruded aluminum square stops with preformed resilient glazing gaskets.
- 6. Glazing Stop Width: Manufacturers standard.
- 7. Glazing Thickness: See Section 08-8000.
- D. Sliding Automatic Door: Single leaf track-mounted, electric operation, extruded aluminum glazed door, with frame, and operator concealed overhead.
 - 1. Operation: Power open, power close operation.
 - 2. Exterior-Side Actuator/Safety: Motion sensor.
 - 3. Interior-Side Actuator/Safety: Motion sensor.
 - 4. Hold Open: Toggle switch at inside head of doors.
 - 5. Door and Frame Finish: Same as storefront framing system.
 - 6. Threshold: Continuous standard tapered extrusion square by bevel, with bevel to exterior

2.04 CONTROLLERS, ACTUATORS, AND SAFETIES

- A. Controller: Provide microprocessor operated controller for each door.
 - 1. Adjustable Time Delay: Capable of adjustable time delay of 2 to 30 seconds.
- B. Comply with BHMA A156.10 for actuator and safety types and zones.
- C. Motion Sensor Actuator/Safety: Microwave; distance of control sensitivity adjustable.
 - 1. Overhead operator shall be complete with anti-vandalism which will insure that the change of zone size by unauthorized movement of the unit is not possible.
 - 2. Overhead operator shall have a discriminating signal input circuit, automatic compensation for voltage variations, and automatic rejection of fixed objects within the zone.
- D. Photo-Electric Actuator/Safety: Horizontal single ray device, with aluminum housing for light source and relay units.

2.05 ACCESSORIES

- A. Subsills for Sidelights:
 - 1. Fabricate to shapes indicated of not less than 1/8 inch thick extruded aluminum, one piece full length of opening if practical, with concealed anchors.
 - 2. If not practical to use one piece, provide 6 inch long back-up plate of same material, thickness and shape as sill member. Provide for expansion and contraction. Line center of subsill with expansion joints in window mullions.
 - 3. Subsills turned-up back edge not less than 1 inch. Front edge provided with 1-1/2 inch (minimum) drip. End dams turned-up 1-1/2 inch.
 - 4. Do not bridge thermal breaks.
 - 5. Refer to drawings for details.
- B. Gasketing:
 - 1. Adjustable nylon sweeps on bottom of sliding doors.

Freestanding Medical Office Building for SCCH - 23987.02

Addendum 03

2. Double pile weatherstripping on lead edges of sliding doors including the area of lock and elsewhere as needed for a weathertight installation.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available and is of the correct characteristics.
- C. Beginning of entrance door work means acceptance of existing conditions.

3.02 INSTALLATION

- A. Install equipment in accordance with approved shop drawings and manufacturer's published instructions.
- B. Provide for thermal expansion and contraction of door and frame units and live and dead loads that may be transmitted to operating equipment.
- C. Provide for dimensional distortion of components during operation.
- D. Coordinate installation of components with related and adjacent work; level and plumb.
- E. Set subsills in bed of mastic with provisions for sealant and shims.

3.03 ADJUSTING

A. After repeated operation of completed installation, re-adjust door operators and controls for optimum condition, safety, and compliance with accessibility and governing building codes.

3.04 CLEANING

A. Remove temporary protection, clean exposed surfaces.

3.05 CLOSEOUT ACTIVITIES

A. Demonstrate operation, operating components, adjustment features, and lubrication requirements.

3.06 MAINTENANCE

END OF SECTION

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OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL	WITH STA 6. MASONR
FOUNDATION NOTES	7. REINFOR
1. FOUNDATION DESIGN IS BASED ON A REPORT FROM TTL DATED 11-13-2023.	
REPORT # 000230802085.002. FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF	
SUPPORTING 2000 PSF (ISOLATED FOOTINGS) 1500PSF (CONTINUOUS FOOTINGS). 3. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE	
BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-0" MINIMUM BELOW FINISHED GRADE.	
4. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3-INCH-THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.	
5. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.	

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STRUCTURAL GENERAL NOTES

<u>ONCRETE</u>

TE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS RCED CONCRETE," (ACI 318).

G STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).

ROPERTIES – CONCRETE:

	Class Exposure	F'c psi at 28 <u>days</u>	Max. W/C <u>Ratio</u>	Max.* Slump <u>Inches</u>	Total Air <u>Content</u> (±1.5%)	Nom. Max. Aggregate <u>Size</u>
n-place concrete						
Footings	C1	4,000	0.50	4	No test	2"
Slab on grade	e					
Int. Slab		4,000	0.45	4	No test	1"
Ext. Slab	F1, C2	5,000	0.40	4	6	1"
All other		4,000	0.45	4	5	3/4"
Concrete fill of	on metal deck					
(Lightweight	& Normal)	4,000	0.45	4	4-7	3/4"
concrete						
Masonry wall						
Grout fill		2,000		8-10	No test	3/8"

dding water reducer

CLASS SHALL BE FO, SO, PO, AND CO PER ACI 318 UNO.

FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ESS NOTED OTHERWISE.

JDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND HALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.

RETE COVER FOR REINFORCING STEEL

WALLS:	LOCATE IN CENTER OF WALL (UNO)
GRADE:	³ / ₄ " TOP STEEL
	1 ¹ / ₂ " BOTTOM STEEL
:	2" FORMED EDGES
	3" CAST AGAINST GROUND

WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS ARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND G, UNLESS SHOWN OTHERWISE.

VIBRATORS SHALL VIBRATE ALL CONCRETE.

XPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH.

ERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE THE FOLLOWING FLATNESS CRITERIA. THESE FLOOR FLATNESS E NOT APPLICABLE TO COMPOSITE STEEL CONSTRUCTION. SEE JRAL REQUIREMENTS FOR ADDITIONAL FLOOR FINISH INFORMATION:

D OVERALL F NUMBERS ATNESS FF = 35 VEL FL = 25

1 LOCAL F NUMBERS

FLATNESS FF = 24 LEVEL FL = 17

E ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF LABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL NTS AND ARCHITECTURAL SPECIFICATIONS.

<u>Sonry</u>

ONSTRUCTION SHALL CONFORM TO ACI 530/TMS 402 AND 602.

MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY I SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL MUM PRISM STRENGTH (F'M) OF 2000 PSI.

FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD ONS FOR "MORTAR AND GROUT FOR REINFORCED MASONRY, "ASTM SHALL HAVE A COMPRESSIVE PRISM STRENGTH (F'M) OF 2000 PSI THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES. MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL)

R CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO

RCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS ARD 90-DEGREE HOOKS.

AP SPLICES SHALL BE 48 BAR DIAMETERS (U.N.O.)

MENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL

WOOD TRUSSES

1. ROOF TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS: TOP CHORD: 12 PSF DEAD LOAD 20 PSF LIVE LOAD

BOTTOM CHORD: 8 PSF DEAD LOAD

- 2. IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR MECHANICAL EQUIPMENT IN THE TRUSS DESIGN.
- 3. SEE ARCHITECTURAL DRAWINGS FOR BEARING CONDITIONS AND DIMENSIONS OF TRUSSES.
- 4. A REGISTERED ENGINEER IN THE PROJECT STATE SHALL DESIGN TRUSSES. SHOP DRAWINGS, INCLUDING INDIVIDUAL TRUSS DESIGNS, PLAN LAYOUT, ALL TEMPORARY BRACING AND PERMANENT TRUSS MEMBER BRACING BEARING THE ENGINEERS SEAL SHALL BE SUBMITTED FOR REVIEW.
- 5. TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE.
- 6. UNLESS NOTED OTHERWISE ON DRAWINGS, TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR DESIGNING AND SUPPLYING OR SPECIFYING ALL TEMPORARY BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER BRACING REQUIRED BY DESIGN. ALL TRUSS TO-TRUSS CONNECTIONS, AND ALL UPLIFT CONNECTIONS AT BEARING LOCATIONS. ALL PERMANENT BRACING OF TRUSS MEMBERS SHALL BE CONTINUOUS AND BE ATTACHED TO AN END-WALL STUD OR HIP-TRUSS TOP CHORD WITH 2 #16D COMMON NAILS.
- 7. FIELD REPAIR OF DAMAGED TRUSSES MUST BE APPROVED IN WRITING BY THE TRUSS ENGINEER AND ENGINEER OF RECORD.
- 8. ALL ROOF TRUSS BEARING WALLS SHALL HAVE METAL FASTENERS TO RESIST UPLIFT FORCES AS NOTED ON ROOF FRAMING PLANS OR AS REQUIRED BY THE TRUSS ENGINEER.
- 9. TRUSS SUPPLIER IS TO PROVIDE PLAN AND PROCEDURES FOR INSTALLING, SECURING, AND BRACING OF ALL TRUSSES.
- 10. TRUSS SUPPLIER SHALL PROVIDE TRUSS BLOCKS CAPABLE OF TRANSFERRING LATERAL LOADS AS NOTED ON PLANS AND/OR DETAILS.
- 11. TRUSS MANUFACTURER TO COORDINATE WITH MECH./PLUMBING DRAWINGS FOR ADDITIONAL CONCENTRATED LOADS DUE TO DOMESTIC WATER AND SPRINKLER PIPE SUPPORTS.
- 12. TRUSS MANUFACTURER SHALL COORDINATE TRUSS LAYOUT WITH MECH/PLUMBING DRAWINGS TO ALLOW ALL PIPES AND DUCTS ADEQUATE SPACE FOR PROPER INSTALLATION.
- 13. PRE-ENGINEERED METAL PLATE CONNECTED WOOD TRUSSES SHALL BE BRACED IN INFORMATION BOOKLET, BCSI 1-03" AND RELATED SUMMARY SHEETS.

LUMBER FRAMING

- 1. ALL NON-PREFABRICATED LOAD BEARING FRAMING MEMBERS SHALL BE #2 SOUTHERN YELLOW PINE 19% MOISTURE CONTENT UNLESS OTHERWISE NOTED.
- 2. STUDS IN LOAD BEARING WALLS MAY BE DOUGLAS FIR, SOUTHERN YELLOW PINE OR SPRUCE (#2), UNLESS NOTED OTHERWISE. 3. CONTRACTOR TO PROVIDE TEMPORARY WALL BRACING UNTIL ALL PLYWOOD DECKING,
- ROOF TRUSSES, AND SHEAR WALLS ARE INSTALLED.
- 4. ALL PLYWOOD SHEATHING SHALL BE APA RATED, SEE PLAN.
- 5. THE ALLOWABLE STRESSES FOR FIRE RETARDANT TREATED LUMBER SHALL BE REDUCED 10%.
- 6. LVL AND PSL LUMBER SHALL BE MICROLAM OR PARALLAM LUMBER AS MANUFACTURED BY WEYERHAEUSER, OR EQUAL. LVL MEMBERS SHALL BE (MIN): f_b =2600 PSI, f_v =285 PSI, E=1,900,000 PSI PSL BEAMS SHALL BE (MIN): fb=2900 PSI, fr=290 PSI, E=2,000,000 PSI
- 7. WALLS MUST HAVE BLOCKING BETWEEN STUDS AT MAXIMUM SPACING OF 6'-3" OR AT PANEL EDGES. THE BLOCKING MUST BE 2" IN THICKNESS AND MATCH THE STUD WIDTH.

POST-INSTALLED ANCHORS

- 1. UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED CONCRETE AND SEISMIC APPLICATIONS.
- 2. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS UNLESS APPROVED OTHERWISE BY THE ENGINEER. 3. PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR
- AND EMBEDS.
- 4. DRILL AND PREPARE HOLES AND INSTALL ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS.
- 5. POST-INSTALLED ANCHORS SHALL BE INSPECTED BY A QUALIFIED SPECIAL INSPECTOR IN ACCORDANCE WITH THE PROJECT STATEMENT OF SPECIAL INSPECTION AND THE ICC-ES REPORT.
- UNLESS OTHERWISE NOTED IN THE ICC-ES REPORT, THE SPECIAL INSPECTOR SHALL INSPECT THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR AND PERIODICALLY INSPECT INSTALLATION THEREAFTER.
- 6. MECHANICAL ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES193. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:
- HILTI KWIK BOLT TZ2 (ICC-ES ESR 1917) HILTI KWII HUS-EZ (ICC-ES ESR 3027)
- SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC-ES ESR 3037) SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-2713)
- DEWALT POWER STUD + SP2 (ICC ESR-2713) DEWALT SCREW-BOLT + (ICC ESR-3889)
- 7. ADHESIVE ANCHORS, INCLUDING REBAR, FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ADHESIVE ANCHOR SHALL BE INSTALLED INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT THAT HAS CURED FOR AT LEAST 21 DAYS. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

HILTI HIT RE 500 V3 (ICC-ESR 3814)

HILTI HIT-HY 200 ANCHOR RODS AND REINFORCING BAR (ICC-ES ESR 3187) SIMPSON STRONG-TIE SET-XP (ICC-ES ESR 2508) DEWALT PURE 110 + (ICC ESR-3298)

STATEMENT OF STRUCTURAL SPECIAL **INSPECTIONS/QUALITY ASSURANCE PROGRAM**

<u>GENERAL:</u>

THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE STRUCTURAL TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

- 1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS.
- 2. ACKNOWLEDGEMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL
- 3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
- 4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR WILL BE HIRED BY THE OWNER, BUT CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFORMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED AND RECONSTRUCTED.

CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

- 1. PROVIDE COPY OF CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
- 2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
- 3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
- 4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.
- 5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR'S EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.
- 6. PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

SPECIAL INSPECTOR'S RESPONSIBILITIES:

THE SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER LICENSED IN AND PRACTICING IN THE STATE OF INDIANA. SPECIAL INSPECTORS SHALL BE A LICENSED ENGINEER IN THE STATE OF INDIANA OR IS PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF INDIANA AND HAS A THOROUGH UNDERSTANDING OF THE SPECIAL INSPECTION REQUIREMENTS OF THE 2012 IBC. THE SPECIAL INSPECTOR SHALL BE AN INDIVIDUAL OR INDIVIDUALS CERTIFIED OR EXPERIENCED TO PERFORM SUCH INSPECTIONS IN A PARTICULAR FIELD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. PERIODIC REPORTS SHALL BE PROVIDED AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT; TWO TO THE ARCHITECT AND ONE TO THE STRUCTURAL ENGINEER OF RECORD.

THE SPECIAL INSPECTOR FOR THIS PROJECT IS AS FOLLOWS:

SOILS AND FOUNDATIONS:

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS TO VERIFY THE FOLLOWING:

- 1. STRUCTURAL FILL COMPLIES WITH SPECIFICATIONS AND THE
- PROJECT GEOTECHNICAL.
- 2. OBSERVE PROOFROLLING.
- 3. PERFORM FIELD DENSITY TEST TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED.

4. FOUNDATION BEARING CAPACITY OF ALL FOOTINGS.

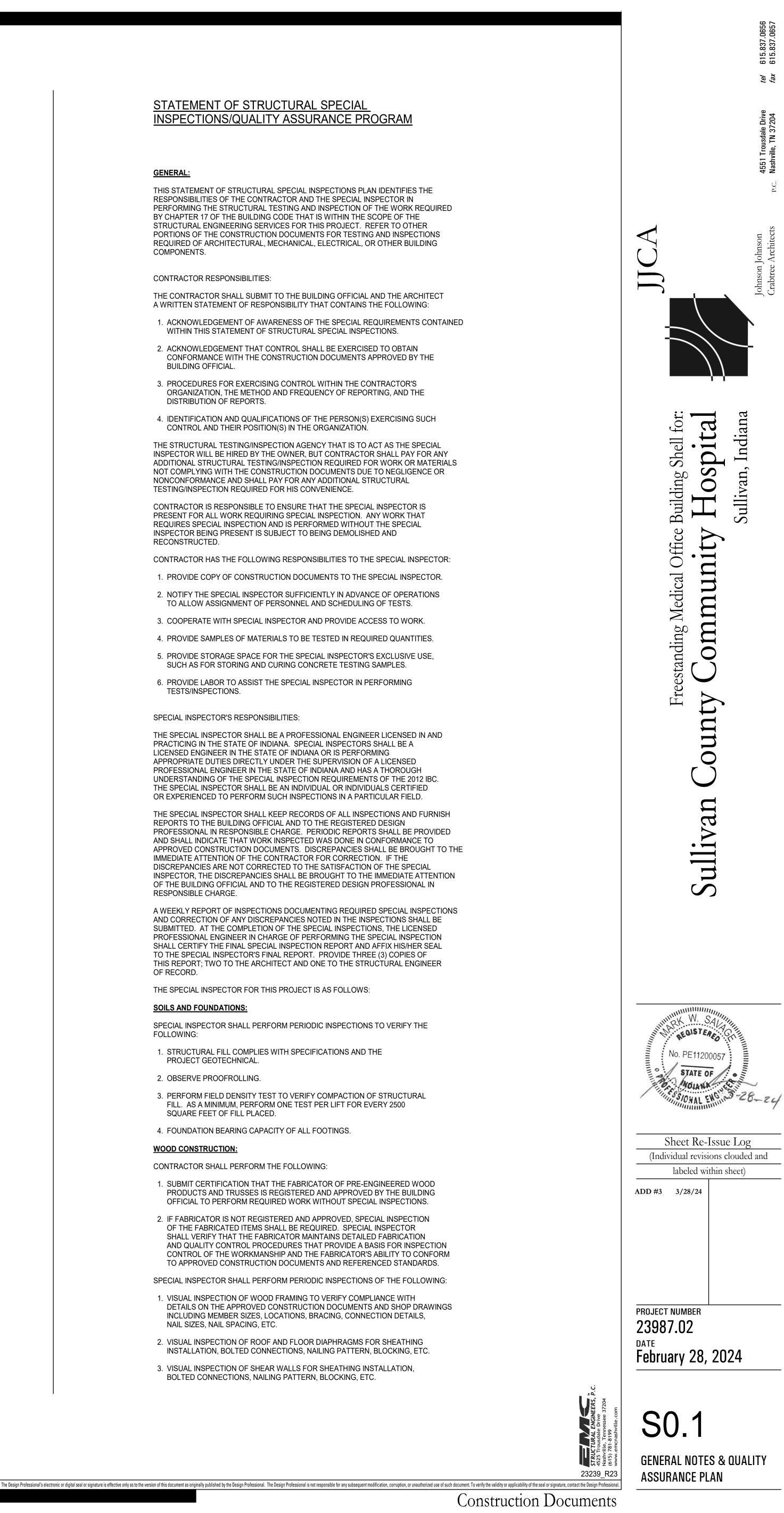
WOOD CONSTRUCTION:

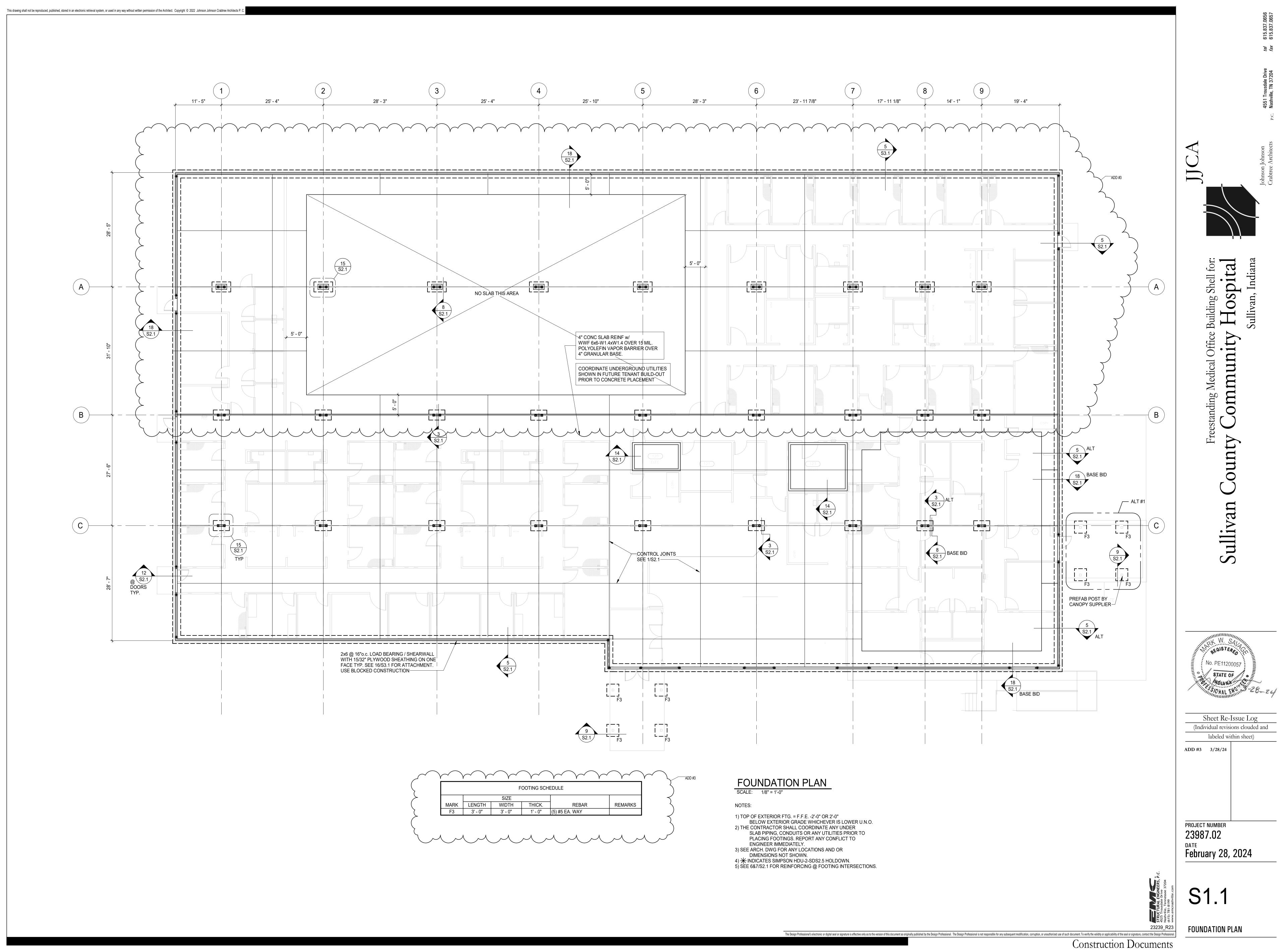
CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT CERTIFICATION THAT THE FABRICATOR OF PRE-ENGINEERED WOOD PRODUCTS AND TRUSSES IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS.
- 2. IF FABRICATOR IS NOT REGISTERED AND APPROVED. SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.

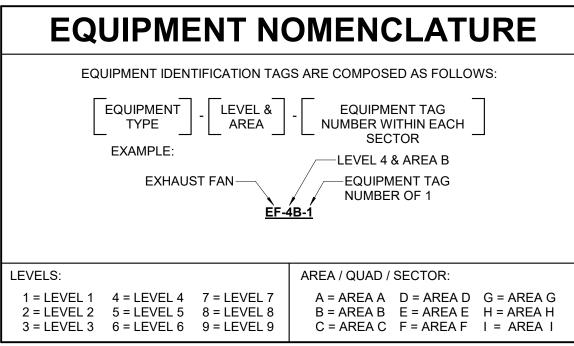
SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

- 1. VISUAL INSPECTION OF WOOD FRAMING TO VERIFY COMPLIANCE WITH DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS INCLUDING MEMBER SIZES, LOCATIONS, BRACING, CONNECTION DETAILS, NAIL SIZES, NAIL SPACING, ETC.
- 2. VISUAL INSPECTION OF ROOF AND FLOOR DIAPHRAGMS FOR SHEATHING INSTALLATION, BOLTED CONNECTIONS, NAILING PATTERN, BLOCKING, ETC.
- 3. VISUAL INSPECTION OF SHEAR WALLS FOR SHEATHING INSTALLATION, BOLTED CONNECTIONS, NAILING PATTERN, BLOCKING, ETC.





	MECHANIC	CAL LEGEN	(NOT ALL SYMBOLS MAY BE USED)			MECHANICAL	EQI	JIPMEN [.]	T NAMING C	ONVENTI
	DUC	TWORK			ABB.	DESCRIPTION	ABB.	DESC	CRIPTION ABB.	DESCRI
SYMBOL / A	ABBREVIATION DESCRIPTION	SYMBOL / ABBREVIATION	DESCRIPTION	1	ATU	AIR TERMINAL UNIT	RTU	ROOFTOP PACKAG	GE UNIT VFD	VARIABLE FREQUEN
	RECTANGULAR SUPPLY DUCT - UP	12"X12" FACE 24"X24" FACE	SUPPLY DIFFUSER AND AIR QUANTITY. BLANK		EF REF	EXHAUST FAN RELIEF AIR FAN	SAF SAT	SUPPLY AIR FAN	TOR	
		⊠sx	OUTS INDICATE NO AIR FLOW IN THIS DIRECTION. (X DENOTES TYPE. SEE NOTE 1 OF AIR		RH	RADIANT HEAT PANEL	UH	UNIT HEATER		
	RECTANGULAR SUPPLY DUCT - DOWN		DISTRIBUTION DEVICE SCHEDULE)	<i>س</i> ے	$\overline{\gamma}$		\sim			
	RECTANGULAR RETURN / EXHAUST DUCT -	. 🛛 🕅 RX 🖾 🖉 EX	RETURN GRILLE AND AIR QUANTITY (X DENOTES TYPE) EXHAUST GRILLE AND AIR QUANTITY (X DENOTES TYPE)			MECHANICAL	CO	MMISSI	ONING COO	RDINATIC
	RECTANGULAR RETURN / EXHAUST DUCT -	100SX 100SX	LAMINAR FLOW SUPPLY DIFFUSER AND AIR FLOW QUANTITY (X DENOTES TYPE)			COMMISSIONING SHALL BE PROVIDED FO DESIGNATED BY THE OWNER AND BE RES AND ELECTRICAL CONTRACTORS SHALL F	PONSIBL	E FOR TASKS SPECI	FIED BY IECC C408.2.1. MECHAI	NICAL, TEST AND BALAN
	ROUND SUPPLY DUCT - UP		LINEAR SLOT DIFFUSER AND AIR FLOW QUANTITY SCREENED OPENING AND AIR FLOW QUANTITY			MAINTEN	ECTION CA	ORMATION	cooling capacity and 600, combined service water-he	
	ROUND SUPPLY DUCT - DOWN		SOUND ATTENUATOR HEATING COIL WITH IDENT.			C408.1 General. This tenance information an tional testing requirement	section cove I the commi nts for, build		 capacity. 2. Systems included in Section vidual <i>dwelling units</i> and <i>sle</i> C408.2.1 Commissioning plan. 	eeping units. A commissioning plan
	ROUND RETURN / EXHAUST DUCT - UP	xxx	ELECTRIC HEATING COIL WITH IDENT.			mation. The buildin ments shall be prov manufacturers' info	ded to the o rmation, sp	and maintenance infor- s and maintenance docu- wner and shall consist of ecifications and recom-	shall be developed by a <i>registere</i> approved agency and shall include 1. A narrative description of t accomplished during each p	e the following items: he activities that will be
	ROUND RETURN / EXHAUST DUCT - DOWN	ATU-XX-XX XXX	AIR TERMINAL UNIT WITH IDENT. & MAX CFM			narratives; and othe how the building, ed be installed, mainta	r means of uipment and ined and op	edures and data points; illustrating to the owner I systems are intended to erated. Required regular ent and systems shall be	including the personnel inte of the activities. 2. A listing of the specific et systems to be tested and a d	quipment, appliances or
O '	OVAL SUPPLY DUCT - UP	ATU-XX-XX XXX	AIR TERMINAL UNIT WITH IDENT., MIN AND MAX CFM			clearly stated on a include the title or	readily visit	le label. The label shall number for the operation particular model and type	be performed.3. Functions to be tested inclucalibrations and economizer4. Conditions under which the	r controls.
Q I	OVAL SUPPLY DUCT - DOWN		CHILLED BEAM WITH IDENT. & CFM			C408.2 Mechanical s systems commissioni Prior to the final mech	ng and con anical and p	service water-heating npletion requirements. lumbing inspections, the proved agency shall pro-	Testing shall affirm winter a ditions and full outside air c 5. Measurable criteria for performed c408.2.2 Systems adjusting and	and summer design con- onditions. ormance.
O '	OVAL RETURN / EXHAUST DUCT - UP	CFM	AIRFLOW TRANSFER RATE AT DOOR			vide evidence of mec completion in accordan <i>Construction docum</i>	hanical syst ce with the p ent notes sha	ems <i>commissioning</i> and rovisions of this section. Il clearly indicate provi- upletion requirements in	tems shall be balanced in acc accepted engineering standards. A shall be measured and adjusted to within the tolerances provided in	ordance with generally Air and water flow rates o deliver final flow rates
	OVAL RETURN / EXHAUST DUCT - DOWN	CS	COLD DECK SUPPLY DRYER EXHAUST DUCT			accordance with this s specifications for furth mentation shall be give	ection and a er requirement to the own	are permitted to refer to ents. Copies of all docu- ter or owner's authorized	tions. Test and balance activities and hydronic system balancing. C408.2.2.1 Air systems bala	shall include air system
		DD	DRYER EXHAUST DUCT DISHWASHER EXHAUST	$\left \right\rangle$			le to the <i>coa</i> ns C408.2.4	<i>e official</i> upon request in and C408.2.5.	outlet and <i>zone</i> terminal device means for air balancing in acco ments of Chapter 6 of the <i>In</i>	e shall be equipped with ordance with the require-
↓ ♦{		EA	EXHAUST AIR			1. Mechanical sy tems in buildi	stems and s	ervice water heater sys- e total mechanical equip-	<i>Code.</i> Discharge dampers used are prohibited on constant-vol volume fans with motors 10 h	for air-system balancing lume fans and variable-
┝──�──┤		GE	GREASE EXHAUST HOOD EXHAUST	ļζ		ment capacity	is less than 4	80,000 Btu/h (140.7 kW)	volume rans with motors 10 h	p (18.0 kw) and larger.
		HS	HOT DECK SUPPLY			Air systems shall be ba mize throttling losses t			C408.2.3.3 Economizers. Air e undergo a functional test to determin	
⊢_\$ (IE	ISOLATION EXHAUST			of greater than 1 hp adjusted to meet design	0.746 kW), flow condit	fan speed shall be ions.	in accordance with manufacturer's sp C408.2.4 Preliminary commissioning	pecifications. report. A prelimi-
MVD↓		LE	LAB EXHAUST OUTSIDE AIR			Exception: Fans we or less are not requi for air balancing.	th fan motor red to be pro	s of 1 hp (0.74 kW) vided with a means	nary report of <i>commissioning</i> test proc shall be completed and certified by the <i>professional</i> or <i>approved agency</i> and	e registered design
 ۱ <u>ــــــــــــــــــــــــــــــــ</u>		PE	PHARMACY EXHAUST			C408.2.2.2 Hydronic hydronic heating and with means for ba	cooling coils	s shall be equipped	building owner or owner's authorized shall be organized with mechanical and findings in separate sections to allow ir	agent. The report d service hot water
_м	└───└ MOTORIZED DAMPER	RA	RETURN AIR			Hydronic systems shal a manner to first min pump impeller shall be	be proporti mize throttl	onately balanced in ng losses, then the	The report shall be identified as "Pre sioning Report," shall include the comp ing Compliance Checklist, Figure C4	liminary Commis- leted Commission-
} {]	AIR FLOW MONITORING STATION	SA	SUPPLY AIR LOW PRESSURE SUPPLY AIR MEDIUM PRESSURE			adjusted to meet design system shall have eithe sure across the pump,	flow condit r the capabil	ions. Each hydronic ity to measure pres-	identify: 1. Itemization of deficiencies fou required by this section that have	nd during testing
	DIFFERENTIAL PRESSURE SENSOR	AD	ACCESS DOOR ABOVE FINISHED FLOOR			pump. Exception: The foll to be equipped with			at the time of report preparation.2. Deferred tests that cannot be per of report preparation because of c	formed at the time
	1 1	ATC	AUTOMATIC TEMPERATURE CONTROL PANEL			suring flow: 1. Pumps with p less.	ump motors	of 5 hp (3.7 kW) or	 Climatic conditions required for p deferred tests. 	
) <u>SP</u>		BDD	BACKDRAFT DAMPER			percent of th	e nameplate	horsepower draw	 Results of functional performance Functional performance test proc the commissioning process, inc. 	edures used during
، <u>د</u>مار	CARBON DIOXIDE DETECTOR	BOD BOP	BOTTOM OF DUCT BOTTOM OF PIPE	ļζ		c408.2.3 Functional pe		the impeller were testing. Functional	criteria for test acceptance. C408.2.4.1 Acceptance of report.	
)		DDC	DIRECT DIGITAL CONTROL			performance testing spe through C408.2.3.3 shall	e conducted		tions thereof, shall not be considered final inspection pursuant to Section code official has received the Prelimi	as acceptable for a C105.2.6 until the
		D.L.	INTERNAL DUCT LINING			C408.2.3.1 Equipmen mance testing shall d operation of componen	emonstrate t its, systems,	he installation and and system-to-sys-	ing Report from the building owner rized agent.	or owner's autho-
; <u> </u>		FD FSD	FIRE DAMPER COMBINATION FIRE/SMOKE DAMPER			tem interfacing rela approved plans and sp function, and maintena	ecifications nce serviceal	such that operation, bility for each of the	C408.2.4.2 Copy of report. The <i>co</i> permitted to require that a copy of Commissioning Report be made as	of the Preliminary
	TRAVERSE DUCT TEST AND BALANCE	ML	MARINE LIGHT			commissioned system include all modes and under full-load, part-lo	equence of a	operation, including	by the <i>code official</i> . C408.2.5 Documentation requirement	
<u>′</u>		MVD	MANUAL VOLUME DAMPER			conditions: 1. All modes as des <i>tion</i> .	cribed in the	sequence of opera-	tion documents shall specify that the do in this section be provided to the b owner's authorized agent within 90 da	building owner or
		OBD SD	OPPOSED BLADE DAMPER SMOKE DAMPER			2. Redundant or <i>au</i> 3. Performance of a		-up mode.	receipt of the <i>certificate of occupancy</i> . C408.2.5.1 System balancing report describing the activities and measure	
; HÚM ;		so	SCREENED OPENING			 Ferrormance of a Mode of operation of power 	n upon a los	s of power and res-	in accordance with Section C408.2.2 C408.2.5.2 Final commissioning r	eport. A report of
↓		SWR	SIDEWALL REGISTER			Exception: Unitary listed in Tables C that do not require s	403.3.2(1) th	rough C403.3.2(3)	test procedures and results identified missioning Report" shall be deliver owner or owner's authorized agent.	red to the building The report shall be
		SWG TG	SIDEWALL GRILLE TRANSFER GRILLE			C408.2.3.2 Controls. I control systems shall b	IVAC and so	ervice water-heating	organized with mechanical system water system findings in separate independent review. The report sha	sections to allow
	RADIUS ELBOW	UNO	UNLESS NOTED OTHERWISE			devices, components, or brated and adjusted a approved plans and spo tion shall be functional	quipment and operate cifications.	nd systems are cali- n accordance with Sequences of opera-	lowing: 1. Results of functional performa 2. Disposition of deficiencies for	nce tests.
	SQUARE THROAT ELBOW WITH TURNING		CONTROL DEVICES			ate in accordance specifications.	with app	roved plans and	including details of corrective proposed.	e measures used or
	VANES	0	THERMOSTAT OR TEMP SENSOR			during the con surable criteria	missioning provident of the second se	test procedures used process including mea- ptance, provided herein	C408.3.1.2 Time-switch controls controls are provided, the followin performed:	
Ĩ	BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH.		HUMIDISTAT OR HUMIDITY SENSOR	{			red tests that	t cannot be performed	1. Confirm that the <i>time-swi</i> grammed with accurate we believe schedules	
} ∮\$	Image: Constraint of the second se		CARBON DIOXIDE SENSOR			at the time of rep ditions. C408.3 Functional testin		on due to climatic con-	holiday schedules.2. Provide documentation to switch controls programmin	including weekday,
<u><u></u><u></u>, <u></u>, <u></u>, <u></u>, <u>,</u> <u>,</u> <u>,</u> <u>,</u> <u>,</u> <u></u></u>	RISE/DROP IN ELEVATION		CARBON MONOXIDE SENSOR			lighting controls required section.	by this code	shall comply with this	weekend, holiday schedules, ence program settings. 3. Verify the correct time and d	and set-up and prefer-
		(RM-X) (EPO)	ROOM MONITOR EMERGENCY POWER OFF			C408.3.1 Functional inspection, the <i>registe</i> , vide evidence that the	ed design p ighting cont	rofessional shall pro- rol systems have been	 verify the correct time and d. Verify that any battery bac energized. 	
	SPLITTER WITH SPLIT SIZE SHOWN	(NO ₂)	NITROGEN DIOXIDE SENSOR] {		tested to ensure that cor ibrated, adjusted, progr dition in accordance w	trol hardwar	e and software are cal- n proper working con-	 Verify that the override tin more than 2 hours. Simulate commission condition 	
^— ⊥		®	REFRIGERANT SENSOR			manufacturer's instruct accordance with Section for the applicable contr	ons. Functions C408.3.1	onal testing shall be in	 Simulate occupied condition ment the following: 6.1. All lights can be turn 	ā.
	SPLITTER WITH SPLIT SIZES SHOWN					C408.3.1.1 Occupa	nt sensor c are provided	ontrols. Where <i>occu</i> - l, the following proce-	6.2. The switch only op	ol switch.
	X BRANCH DUCT CONNECTION CONICAL					and aimed in ommendations	ccordance v	ensor has been located with manufacturer rec-	Iocated. 7. Simulate unoccupied conditi ment the following: 7.1. Nonexempt lighting	
	Image: Constraint of the second se	=				sors, each sen	or shall be to	r fewer occupant sen- ested. n seven occupant sen-	7.2. Manual override sw lights in the enclosed	vitch allows only the space where the over-
↓	ROUND TRUNK. MVD REQUIRED TO AIR			}		sors, testing sh nation of sense multiples of e type and space	all be done f or type and s ach unique e geometry	or each unique combi- pace geometry. Where combination of sensor are provided, not less	on until the next occurs. 8. Additional testing as specif	d to turn on or remain t scheduled shutoff fied by the <i>registered</i>
				5		than 10 percer each combina	t and in no c ion shall be	ase fewer than one, of tested unless the <i>code</i> onal requires a higher	design professional. C408.3.1.3 Daylight responsive of	controls. Where day-
EC	QUIPMENT NOMENCLAT	URE		5		percentage to more of the	be tested. ested contro	Where 30 percent or Is fail, all remaining	light responsive controls are pro shall be verified: 1. Control devices have been p	properly located, field
	EQUIPMENT IDENTIFICATION TAGS ARE COMPOSED AS FOLL			Z		identical comb For <i>occupa</i> ify the followi	nt sensor con	l be tested. <i>trols</i> to be tested, ver-	calibrated and set for acc threshold light levels. 2. Daylight controlled lighting	curate setpoints and
		- Г		ζ		3.1. Where	occupant se	ensor controls include rify correct operation.	level setpoints in response to 3. The calibration adjustment	available daylight. equipment is located
		· _		ζ		3.2. The co the pe	ntrolled ligh	ts turn off or down to 1 within the required	for <i>ready access</i> only by aut C408.3.2 Documentation requirem	thorized personnel. nents. The <i>construc</i> -
				ح		time.	0-00 occurs	nt sensor controls, the	tion documents shall specify that the in this section be provided to the owner's authorized agent within 90	e building owner or



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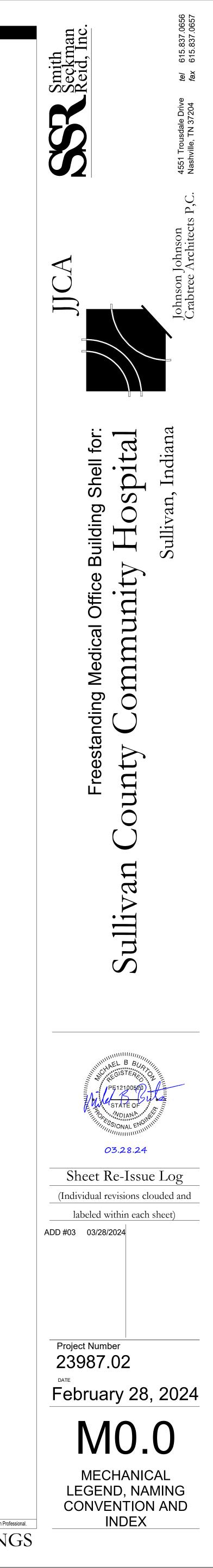
- time.
- 3.3. For auto-on *occupant sensor controls*, the lights turn on to the permitted level when an occupant enters the space.
- 3.4. For manual-on *occupant sensor controls*, the lights turn on only when manually
- activated. 3.5. The lights are not incorrectly turned on by movement in adjacent areas or by HVAC
- operation.

in this section be provided to the building owner or owner's authorized agent within 90 days of the date of receipt of the *certificate of occupancy*. C408.3.2.1 Drawings. Construction documents shall include the location and catalogue number of each

piece of equipment. C408.3.2.2 Manuals. An operating and maintenance manual shall be provided and include the following:

1. Name and address of not less than one service agency for installed equipment.

ITION			SHEET INDEX - SHELL SHEET NAME	
ESCRIPTION QUENCY DRIVE	N	10.1 N 10.2 N	MECHANICAL LEGEND, NAMING CONVENTION AND INDEX MECHANICAL SCHEDULES MECHANICAL COMCHECK	
	N	11.1 N 15.1 N	MECHANICAL COMCHECK MECHANICAL PLAN - ROOF MECHANICAL DETAILS - SHELL	
		<i>1</i> 7.1 №	MECHANICAL CONTROLS - SHELL	
ΓΙΟΝ	\neg		MECHANICAL GENERAL NOTES	
SHALL BE BALANCE, CONT			R SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILI DING SERVICES.	TY CONNECTIONS
OMMISSIONING	PLAN. B. ST		ETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERI HE SYSTEM DESIGN.	E THE FEATURE
/) Ig	ζ s⊦	HALL BE PRO	RK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. ALL DUCTWORK NO OVIDED WITH INTERNAL DUCT LINING. REFER TO SPECIFICATION SECTION 230700 & LINING REQUIREMENTS.	
n	D. M/	AJOR EQUIF PACE ALLOC	PMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRA CATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EAC	H SYSTEM
e 3,			USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSAR' IT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUI	
r D	<u>\</u> ⊺⊦	IE SPECIFIC	ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SH CATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL QUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF	NEEDED TO
,		ITH THE AIR	REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN A R DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR	
I. -	G. FI	RE/SMOKE [DANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE. DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED RIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BI	- ,
y s		AMPERS SH RCHITECTUI	IALL MEET THE REQUIREMENTS OF THE FIRE/SMOKE RATING AND BE "U.L." LABELI RAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.	ED. REFER TO
s n	M/	AINTAIN THE	NS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRES E INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING. AND LARGER ROUTED PARALLEL TO A RATED WALL SHALL BE INSTALLED WITH A I	
r h -		LEARANCE	TO ALLOW FOR INSPECTION OF WALL PENETRATIONS. STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND	
g 	K. SN		OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.	ONFORMANCE
			0A AND LOCAL CODES. USER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEI	LING PLANS.
		ACCORDAN	USERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES NCE WITH THE CEILING TYPE.	
		ND GRILLES	NUAL BALANCING/VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH TAKE-OFFS FROM SUPPLY, RETURN AND EXHAUST MAINS AND SUB-MAINS, AND AT ALL LOW JB-MAIN TAKE-OFFS. DAMPERS SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEIL	PRESSURE DUCT
		RAWINGS AI	RE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RE NG EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL	
	Р. М/	AINTAIN ACC	PECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS. CESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTH	
		STALLATION	CESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PR N. R SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN	
		JTSIDE AIR THER SOUR	INTAKES SHALL BE A MINIMUM OF 25 FEET AWAY FROM PLUMBING VENTS, EXHAU CES OF NOXIOUS FUMES AND/OR ODORS. INTAKES SHALL BE A MINIMUM OF 36" /	IST VENTS, AND
	S. IN	RETURN AI	2" ABOVE FINISHED GRADE. IR PLENUM APPLICATIONS, CONTRACTOR SHALL PROVIDE MINIMUM 32" X 16" ACO IR OPENING WITH TOP OF OPENING TIGHT TO PLENUM DECK ABOVE ROOM ENTRY	
		EIGHT WALL ALLS AS RE	LS. PROVIDE FIRE AND/OR SMOKE DAMPERS AT PENETRATIONS OF ALL FIRE AND EQUIRED TO MEET WALL RATING. PROVIDE SMOKE DETECTORS AT INLET OF EACH WALLS. CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THIS COORDINATION AN	SMOKE RATED H OPENING IN
		F AIR TRANS	SFER OPENINGS IN FULL-HEIGHT WALLS.	
	2m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		\sim
				\neg
			system is intended to nded setpoints.	
	each piece o controls.	of lighting equ	Il selected options for aipment and lighting	
	piece of ligh maintenance	nting equipment	e manuals for each nt. Required routine ng and recommended dentified.	
	5. A schedule f lighting contr C408.3.2.3 Report.	for inspecting rols. • A report of tes	and recalibrating all st results shall be pro-	
		nctional perform of deficiencies	found during testing,	
	including det proposed.	ails of correcti	ive measures used or	
			COMMERCIAL ENERGY EFFICIENCY	
	Project Information:		Project Name:	
				3
	Commissioning Plan (Se	ction C408.2.		
	Systems Adjusting and			
	HVAC Equipment Fun to be provided on:	ctional Testin	ng has been executed. If applicable, deferred and follow-up testing is scheduled	3
	HVAC Controls Functi be provided on:		has been executed. If applicable, deferred and follow-up testing is scheduled to	
	Economizer Functiona provided on:	al Testing has	been executed. If applicable, deferred and follow-up testing is scheduled to be	
	Lighting Controls Fund to be provided on:	ctional Testing	g has been executed. If applicable, deferred and follow-up testing is scheduled	
			ctional Testing has been executed. If applicable, deferred and follow-up testing	
	Manual, record docum	nents and trair	ning have been completed or scheduled	
			submitted to owner and includes all items required by Section C408.2.4	{
1	Preliminary Commission	ommissioning	g provider has provided me with evidence of mechanical, service water heating	
1	Preliminary Commission	ommissioning nmissioning in	accordance with the 2018 IECC.	
	Preliminary Commission I hereby certify that the c and lighting systems com	ommissioning nmissioning in	accordance with the 2018 IECC.	
	Preliminary Commission I hereby certify that the c and lighting systems com	ommissioning nmissioning in	accordance with the 2018 IECC.	



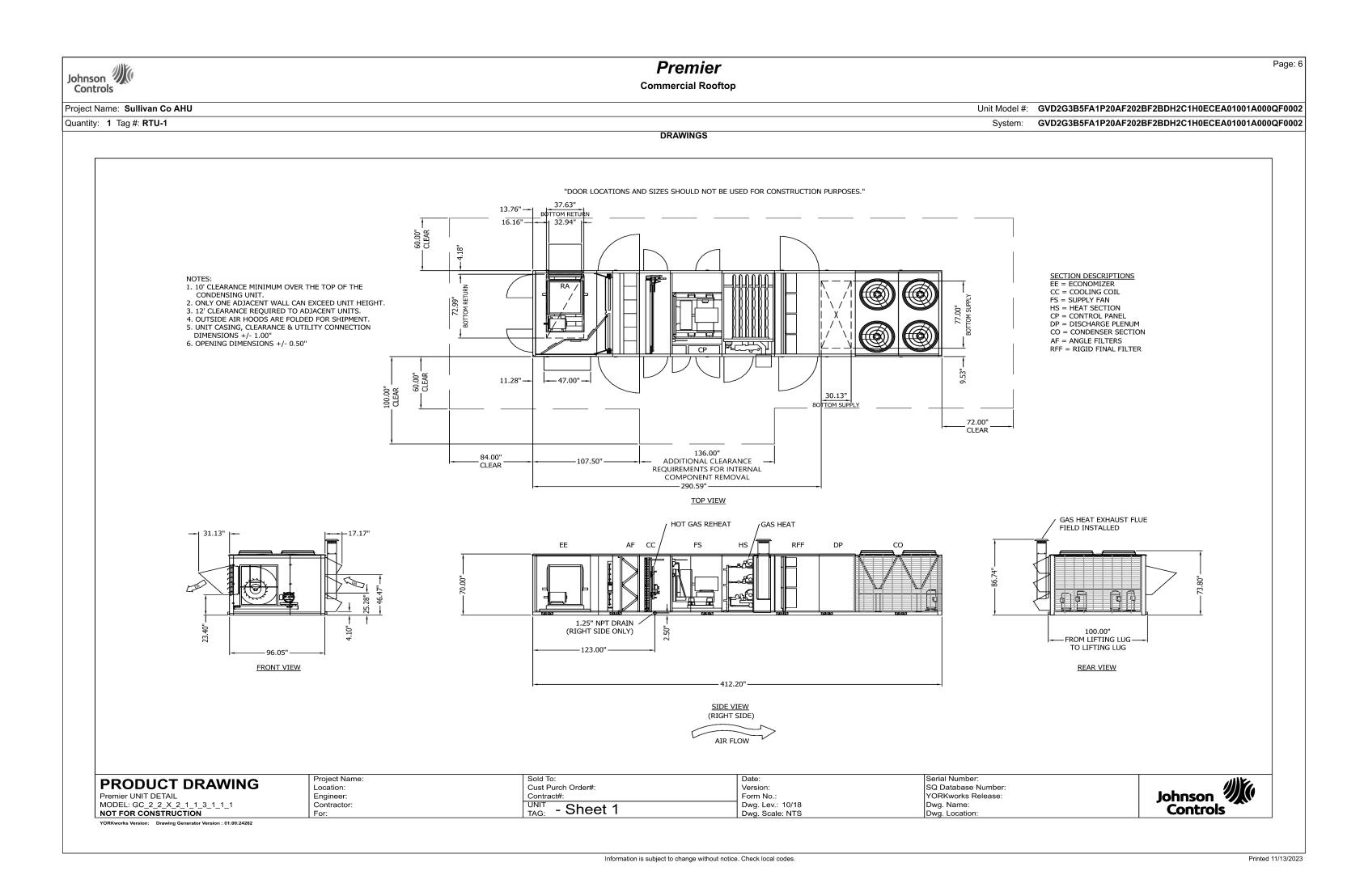
GENERAL NOTES:

- 1. REFER TO PLANS FOR OVERALL AHU SIZE, COMPONENTS, AND ARRANGEMENT. 2. SEE SPECIFICATION 23-7413 FOR ADDITIONAL INFORMATION.
- 3. SUPPLY FAN TOTAL STATIC PRESSURE (TSP) INCLUDES SCHEDULED DIRTY FILTER LOSS. 4. FAN BRAKE HP SHALL BE NO GREATER THAN 85% OF THE MOTOR HP IN NORMAL OPERATING CONDITIONS.
- 5. DRAIN PAN IN FAN SECTIONS FOR DRAW THRU CONFIGURATIONS.

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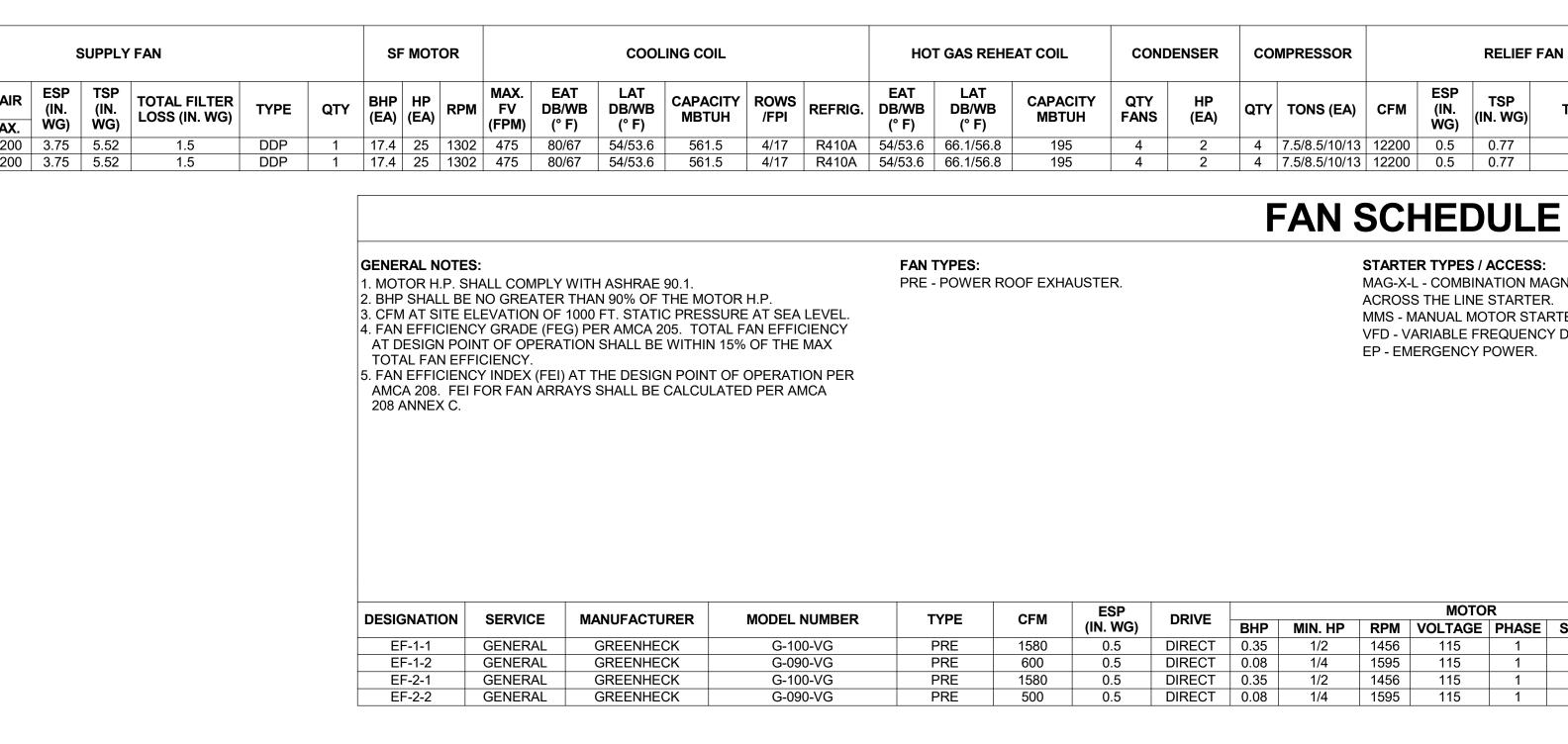
- 6. PROVIDE PREMIUM EFFICENCY MOTORS. 7. EXTERNAL STATIC PRESSURE (ESP) PERTAINS TO DUCTWORK AND EXTERNAL COMPONENTS ONLY.
- 8. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

DESIGNATION	AREA SERVED	MANUFACTURER	MODEL	NOMINAL	_		CAL	UNIT EER			
DESIGNATION	AREA SERVED	MANOFACTORER	NUMBER	TONS	VOLTAGE	MCA (A)	MOP (A)		CFM	OUTSI	
										MIN.	MAX.
RTU-1-1	MOB	JCI	PREMIER	50	208/3	320	400	10.7	12200	2770	12200
RTU-1-2	MOB	JCI	PREMIER	50	208/3	320	400	10.7	12200	2770	12200
RTU-1-2	INIOB	JUI	FREIMER	50	200/3	520	400	10.7	12200	2110	122



ROOFTOP A/C UNIT SCHEDULE

- 9. REFRIGERANT FOR ALL DX UNITS SHALL BE R410A. 10. ALL FANS IN AIR HANDLING UNITS ARE MEDIUM PRESSURE.
- 11. ALL AIR HANDLING UNITS ARE MEDIUM PRESSURE.
- 12. COOLING COIL (DX) LAT INCLUDES FAN HEAT. 13. COOLING COIL (DX) CAPACITIES INCLUDE FAN HEAT.
- 14. FILER LOSS BASED OFF AIR FILTER SCHEDULE MID-LIFE RESISTANCE. 15. 65 KA RMS SYMETRICAL SCCR RATING



REMARKS: A. TSP INCLUDES DIRTY FILTER LOSS.

- B. VARIABLE SPEED COMPRESSORS WITH 15% MIN TURNDOWN. C. ECONOMIZER WITH FAN/DAMPER MODULATION.
- D. SINGLE POINT PWR W/ INTEGRAL FUSED DISCONNECT E. UNIT MOUNTED CONTROL PANEL.
- F. VFD ON SUPPLY AND RELIEF FAN(S).
- G. 120V CONVENIENCE RECEPTACLE H. 2" MERV-8 PREFILTER.

I. 4" MERV-14 FINAL FILTER.

J. SUPPLY FAN WITH FACTORY MOUNTED VFD AND SHAFT GROUNDING KIT. K. RELIEF FAN EQUIPPED WITH SHAFT GROUNDING KITS. L. OA MEASURING STATION.

M. NATURAL GAS PREHEAT WITH MAXITROL BURNER CONTROL.

N. 3'-0" SPRING ISOLATION ROOF CURB FOR SEISMIC DESIGN CATEGORY > "C". REFER TO SPECIFICATION 23-0549.

O. PIEZOMETER RING AIRFLOW MEASUREMENT ON SUPPLY FAN

SER	COI	MPRESSOR	RELIEF FAN REF M					REF MC	DTOR	HEATING COIL					UNIT OPERATING	REMARKS	
HP EA)	QTY	TONS (EA)	CFM	ESP (IN. WG)	TSP (IN. WG)	TYPE	QTY	внр	HP	RPM	EAT (° F)	LAT (° F)	CAPACITY (MBTUH)	GAS PRESSURE (PSI)	GAS CFH	WEIGHT (LBS)	REMARKS
2	4	7.5/8.5/10/13	12200	0.5	0.77	FC	1	2.3	5	361	45	93.2	608	0.5	730	10,000	A,B,C,D,E,F,G,H,I,J,K,L,
2	4	7.5/8.5/10/13	12200	0.5	0.77	FC	1	2.3	5	361	45	93.2	608	0.5	730	10,000	A,B,C,D,E,F,G,H,I,J,K,L,

FAN SCHEDULE

STARTER TYPES / ACCESS: MAG-X-L - COMBINATION MAGNETIC ACROSS THE LINE STARTER. MMS - MANUAL MOTOR STARTER. VFD - VARIABLE FREQUENCY DRIVE. EP - EMERGENCY POWER.

1

ACCESSORIES:

1. WEATHERPROOF HOUSING. 2. HOUSING DRAIN.

REMARKS: A. ALUMINUM WHEEL AND HOUSING. B. TEFC MOTOR.

1,3,5,8,10

1,3,5,8,10

1,3,5,8,10

3. OUTLET SCREEN. 4. MOTORIZED OUTLET DAMPERS.

5. ROOF CURB (18" HIGH). 7. SOLID STATE SPEED CONTROLLER (PRE-WIRED).

8. ELECTRONICALLY COMMUNICATED MOTOR (ECM).

9. CONTROL CIRCUIT TRANSFORMER IN MOTOR STARTER. 10. DISCONNECT SWITCH IN FAN HOUSING (PRE-WIRED).

MOTOR ROOF / WALL OPERATING MAX. ACCESSORIES REMARKS RPM VOLTAGE PHASE STARTER SONES BHP OPENING WEIGHT (LBS) EP 0.35 1/2 1456 115 1 MMS Ν 13.5 12x12 1,3,5,8,10 100 MMS 1595 115 7.7

Ν

 MMS
 N
 13.5

 MMS
 N
 7.7

PROJECT DESIGN CONDITIONS

ABBREVIATIONS DB = DRY BULB TEMPERATURE

1/4

0.08

WB = WET BULB TEMPERATURE MCDB = MEAN COINCIDENT DRY BULB TEMPERATURE MCWB = MEAN COINCIDENT WET BULB TEMPERATURE

GENERAL NOTES

10x10

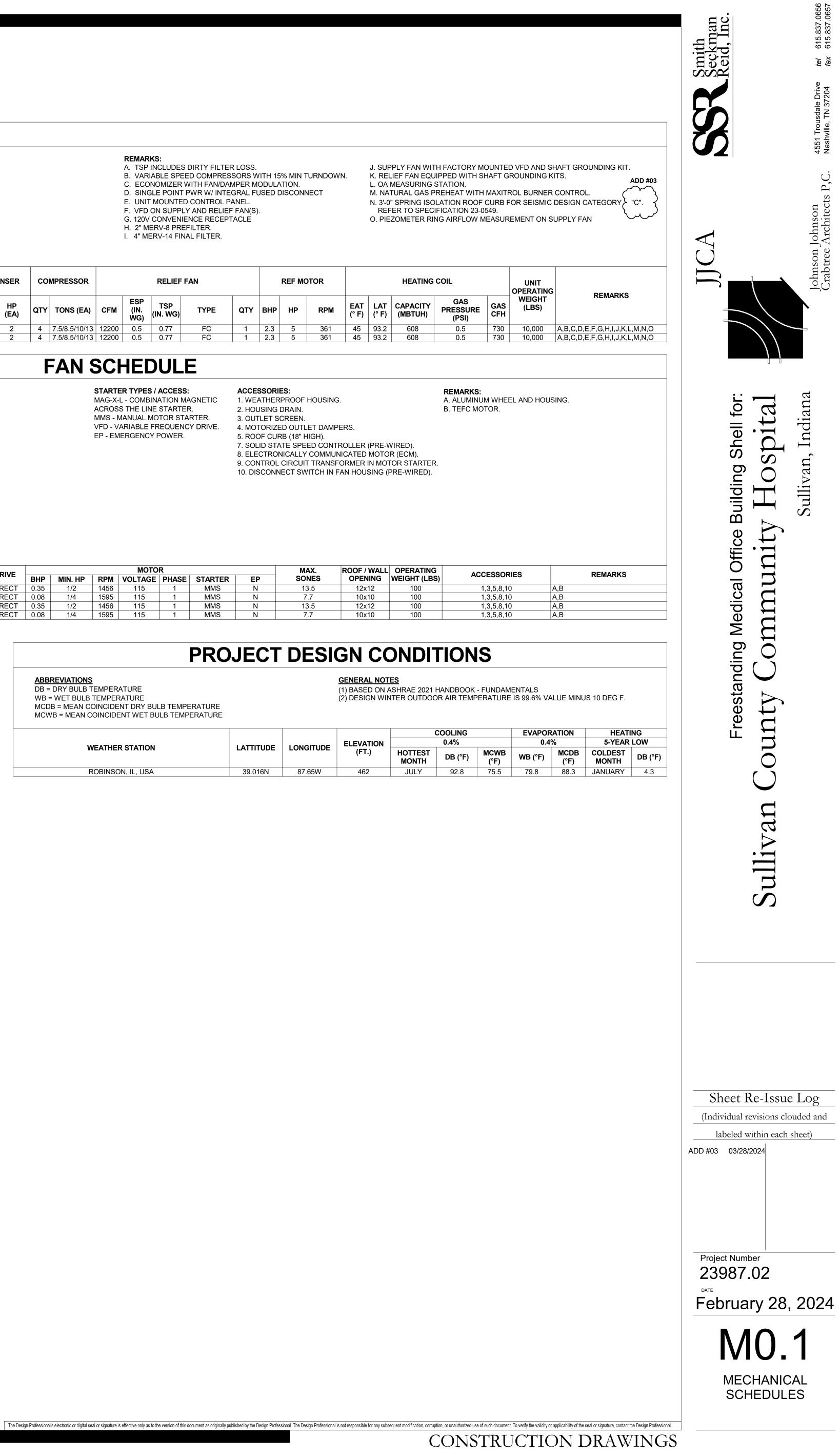
12x12 10x10

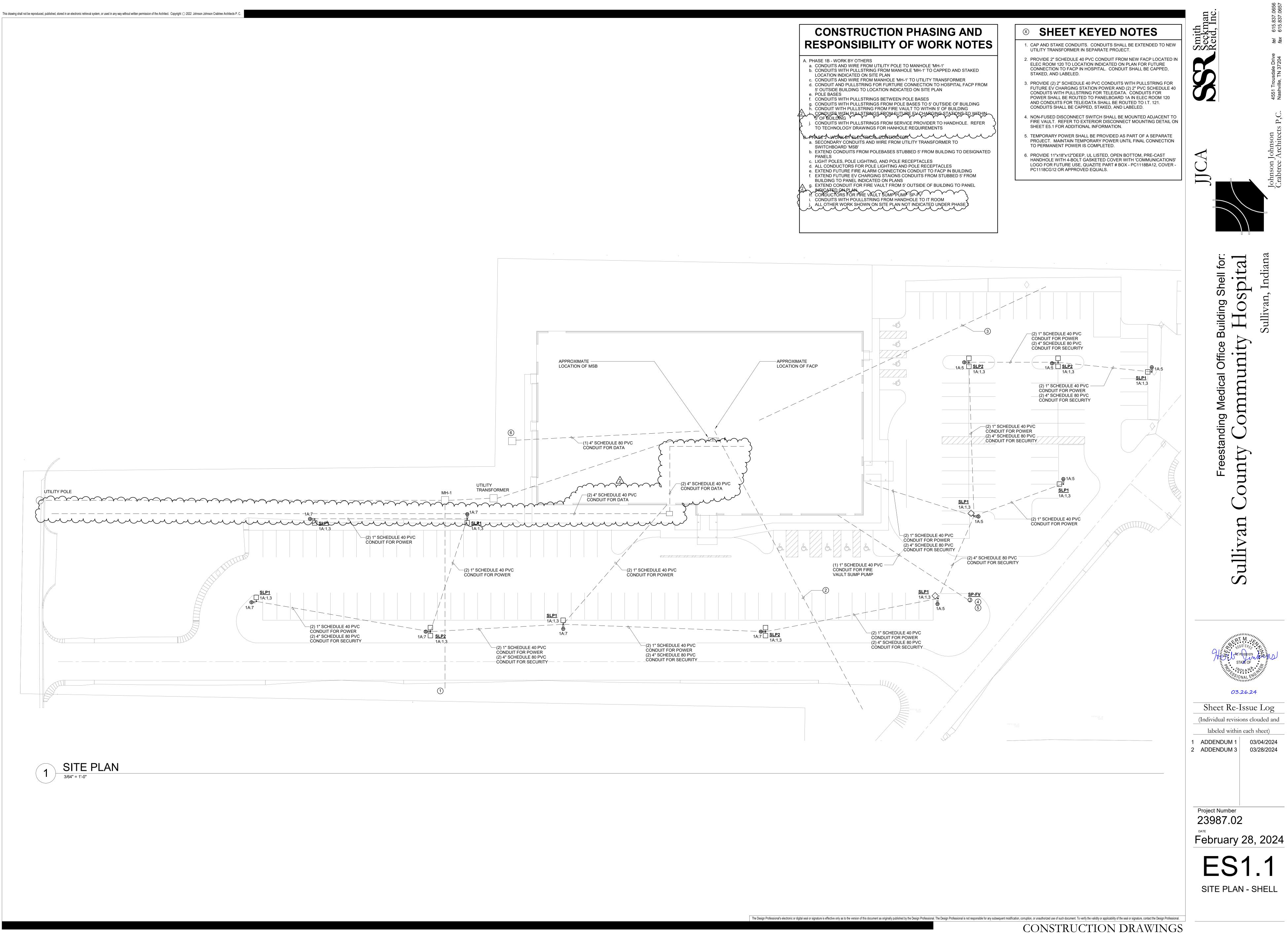
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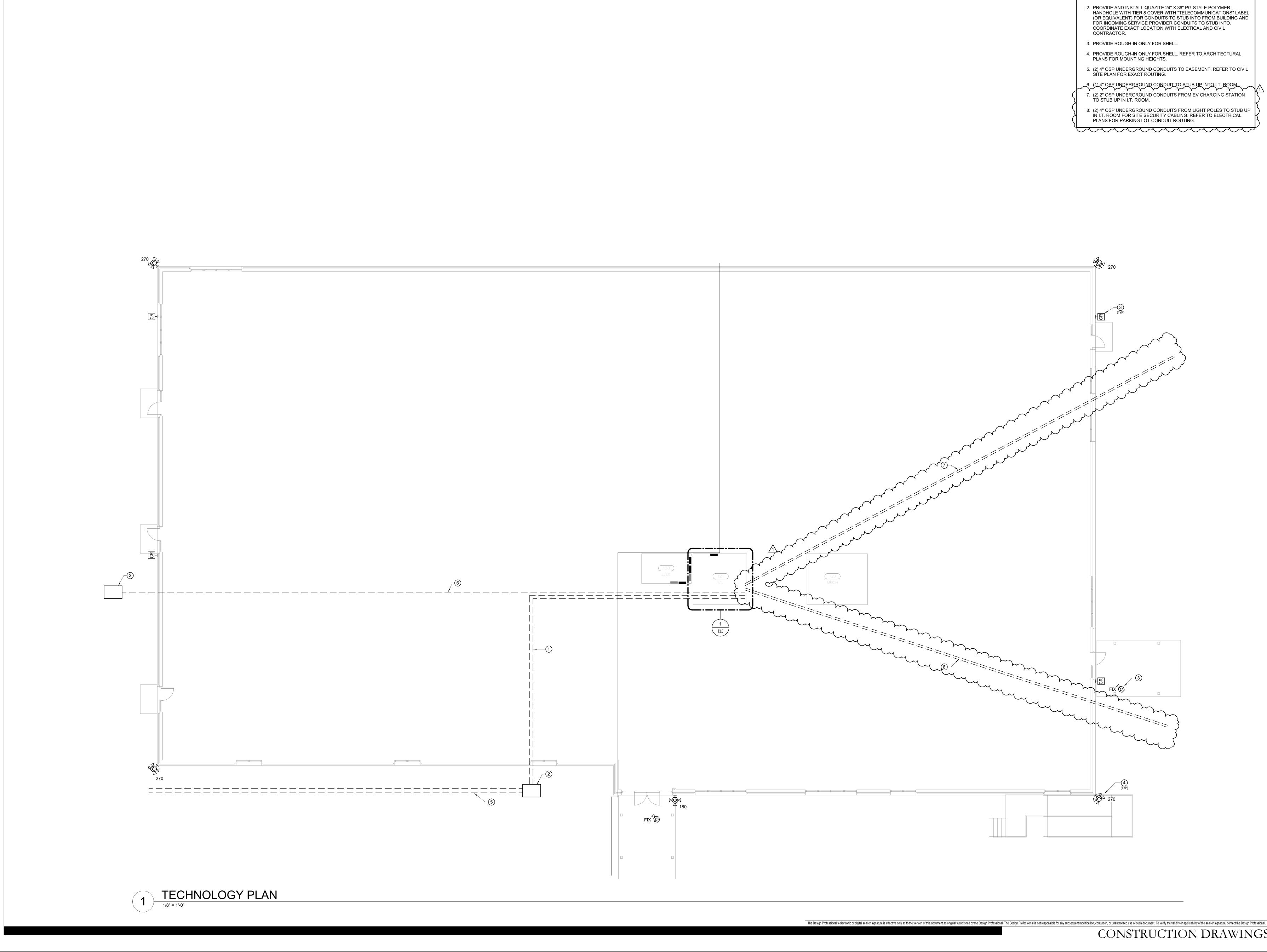
100 100

(1) BASED ON ASHRAE 2021 HANDBOOK - FUNDAMENTALS (2) DESIGN WINTER OUTDOOR AIR TEMPERATURE IS 99.6% VALUE MINUS 10 DEG F.

WEATHER STATION					COOLING		EVAPOF	HEATIN			
		LATTITUDE	LONGITUDE	ELEVATION		0.4%		0.4%		5-YEAR L	
	WEATHER STATION	LATITODE		(FT.)	HOTTEST	DB (°F)	MCWB	WB (°F)	MCDB	COLDEST	
					MONTH	55(1)	(°F)	112(1)	(°F)	MONTH	
	ROBINSON, IL, USA	39.016N	87.65W	462	JULY	92.8	75.5	79.8	88.3	JANUARY	







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