

Bay Pointe Country Club

Brandon, MS



MS CONSTRUCTION LAW - 1. PURSUANT TO SECTION 73-1-39, PRIVATELY OWNED BUILDINGS THAT ARE THREE (3) STORIES IN HEIGHT OR MORE, OR BUILDINGS THAT ARE MORE THAN 500 SQUARE FEET, UNDER THE PROJECT IS SPECIFICALLY EXEMPTED BY SECTION 73-1-38, 2. PURSUANT TO SECTION 73-1-38, THIS PROJECT IS SPECIFICALLY OWNED BY THE STATE OF MISSISSIPPI IF THE PROJECT CONTAINS MORE THAN TEN THOUSAND (10,000) SQUARE FEET OF GROUND FLOOR AREA, OR IF THE PROJECT IS THREE (3) OR MORE STOREYS IN HEIGHT, UNLESS SPECIFICALLY EXEMPTED BY SECTION 73-1-38.

Paul Purser
5582
Professional Engineer
State of Mississippi

STAMP NOT VALID WITHOUT SIGNATURE

Bay Pointe Country Club Remodel
Project No. 20240628001
Date 09/02/2024

PURSER & COMPANY | 601.376.9647 DRAWINGS@PURSERANDCOMPANY.COM

800 Bay Pointe Dr, Brandon, MS 39047
Existing Remodel

Construction Documents	
Revision	Rev Date
DD	7/26/24

Cover Sheet

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G

Project Directory

Project Information

Name: Bay Pointe Golf Club Remodel
Address: 800 Bay Pointe Dr, Brandon, MS 39047

Client

Bay Pointe Country Club
800 Bay Pointe Dr
Brandon, MS 39047
(248) 912-5141
Contact: Aaron Kaehr

Architect

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Jackson, MS 39202
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Project Notes

Project Alternates

- None

Energy Code Requirements

- IBC 2018 Energy Code is the mandatory energy code standard for this project.
- All mechanical and electrical building system installed should meet all requirements of the energy code.
- Main roof insulation is existing and insulated, where roofs are altered, R-11 Liner System shall be added. New Roofing Sections shall include 5" Minimum of Poly-iso Rigid Board above roof deck.
- Exterior walls are existing and insulated. Where new interior furr out walls are installed at exterior perimeter, new batt insulation shall be installed. No continuous air barrier shall be installed per section C503.1 of the 2018 Energy Code.

Thermal Envelope Requirements

- Roofs = R-19 + R-11 LS (Mtl Bld) OR R-25ci (ABV Deck)
- Walls = R-19 + R-6.5ci (new Exterior Walls)
- Slab on Grade = no requirement

Fenestration Requirements (U-factor)

- Fixed = U-Factor 0.46
- Operable = U-Factor 0.60
- Entrances = U-Factor 0.77
- SHGC = U-Factor 0.25

General Information

- Do not scale drawings. If dimensions are in question, the contractor shall be responsible for obtaining clarification from the architect before continuing with the construction.
- Contractors shall verify, on the site, all dimensions and equipment locations, and notify architect promptly in writing of any discrepancies.
- Contractors shall be responsible to determine the on site conditions and perform all necessary work to complete the project.
- Contractors shall maintain safe methods of egress for occupied buildings and in site area during construction.
- All casework dimensions shall be field verified before unit fabrication or installation.
- Dimensions, notes, finishes, and fixtures shown on typical floor plans shall apply to similar, symmetrical, or opposite hand plans, sections, or details.
- Typical, or typ., shall mean that condition is representative for similar conditions throughout. U.N.O. Details are usually keyed and noted "Typ." only one time when they first occur.
- Partitions are dimensioned from finish face U.N.O.
- Dimensions to masonry are to actual finish face U.N.O.
- Owner to have right of refusal for all materials, furniture, fixtures and good within the limits of the construction contract.

Project Code Requirements

1. Applicable Codes and Standards :

- IBC - International Building Code (2018 edition)
- IMC - International Mechanical Code (2018 edition)
- IPC - International Plumbing Code (2018 edition)
- IEC - International Electrical Code (2018 edition)
- IFC - International Fire Code (2018 edition)
- ADA 2010- Americans with Disabilities Act

2. Building Code Requirements

A. Occupancy Classification
Group B: Assembly (A-2)

B. General Building Heights and Area

- Group B, Type V; 6,000 SF allowed per floor, 1 story allowed
- Area modifications for Fire Suppression = 18,000 SF per floor, 2 stories allowed
- Area increases if only 1 story = 24,000 SF per floor, 1 stories allowed

C. Types of Construction

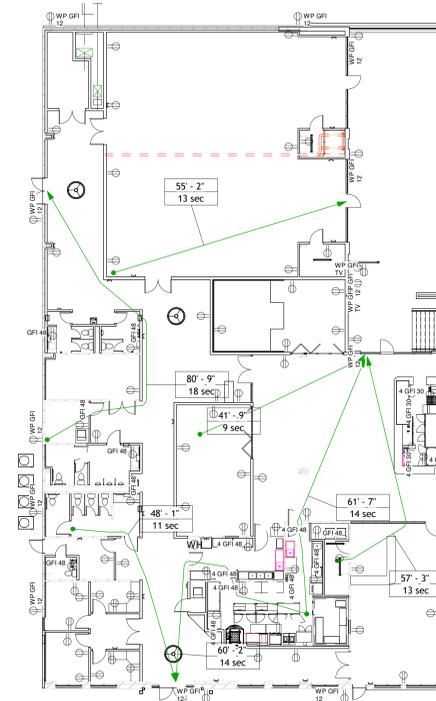
Construction Type V requirements:
Primary Structural Frame - 0hr Bearing Walls
Exterior - 0hr
Interior - 0hr
Non-bearing Interior Walls - 0hr
Floor Construction - 0hr
Roof Construction - 0hr

D. Means of Egress

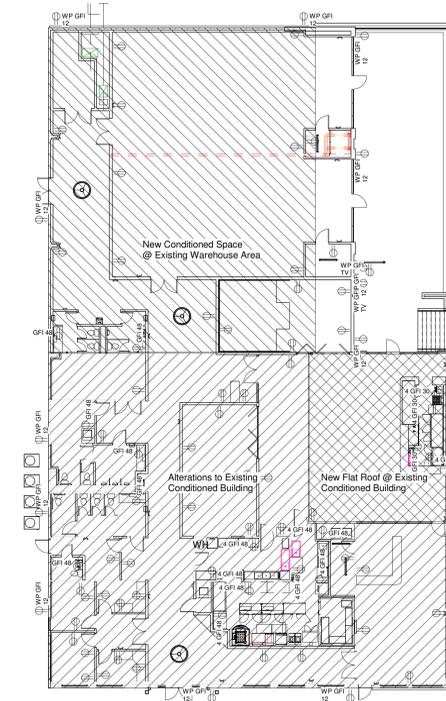
Common Path of Egress Travel - 75 ft.
Exit Access Travel Distance - 250 ft. (Sprinkled)

E. Fire Protection Systems

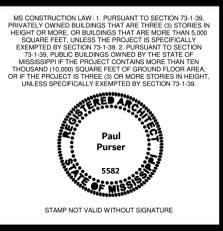
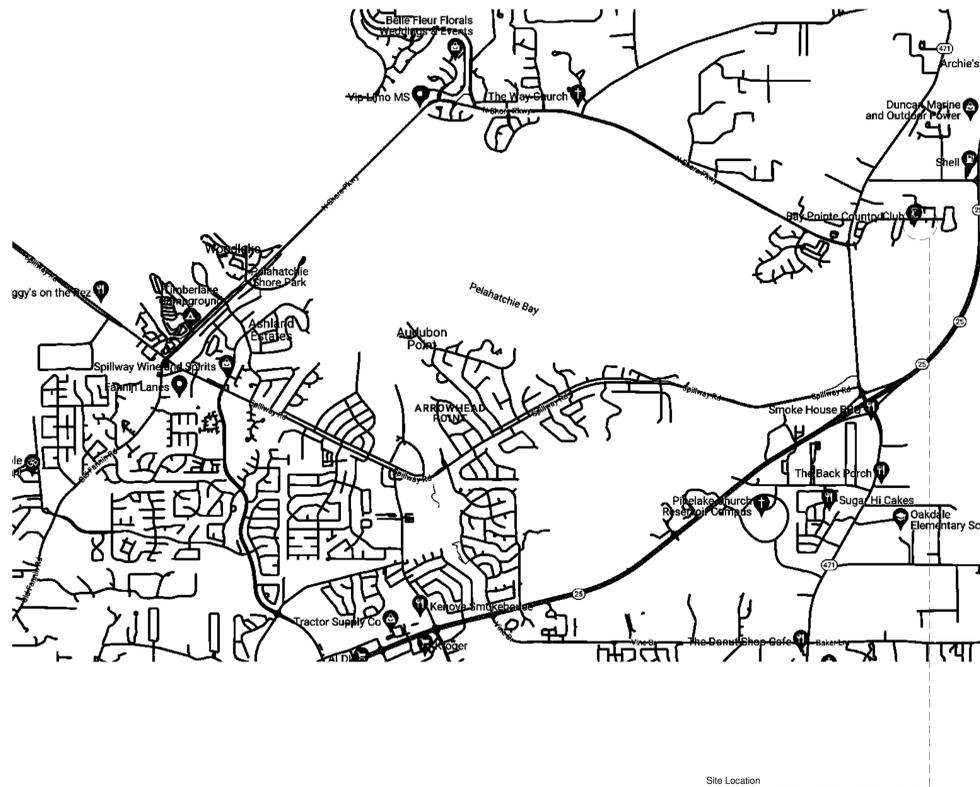
Fire Suppression - Yes



① Life Safety Plan
1/16" = 1'-0"



② Work Scope Plan
1/16" = 1'-0"



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Reference & Life Safety

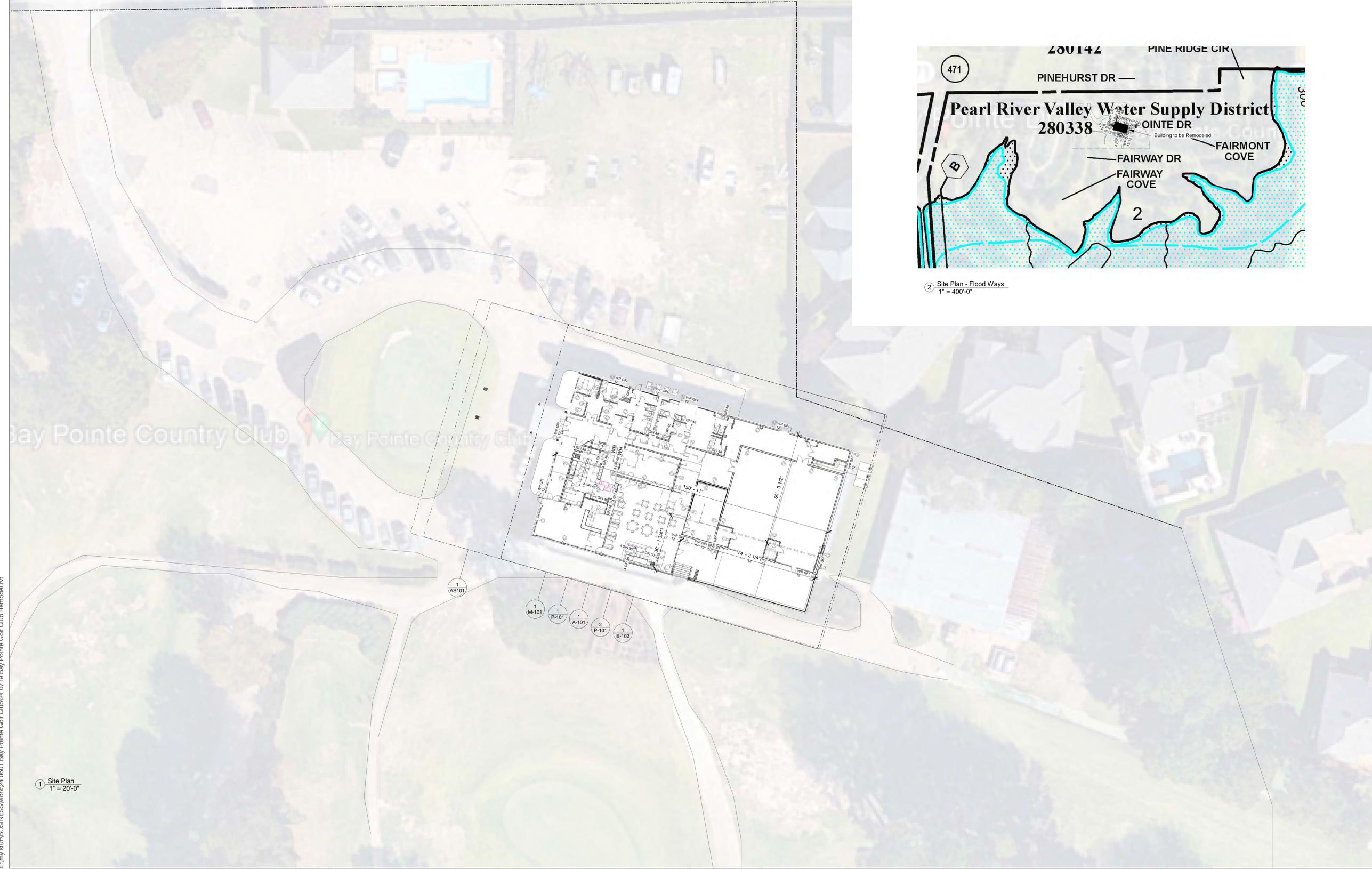
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Bay Pointe Dr.

Pinehurst Dr.

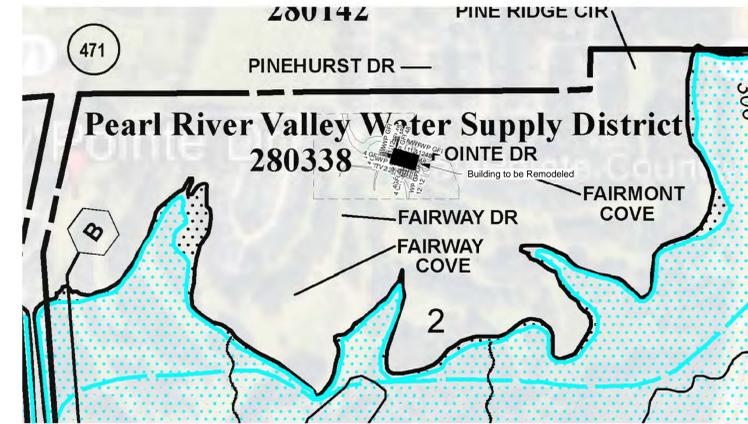
Pine Ridge Dr.



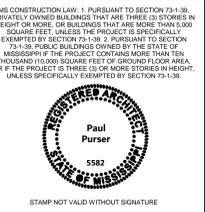
1 Site Plan
1" = 20'-0"

General Notes

- Legal Description:
135.38A E OF HWY 471, W OF HWY 25
& N OF PEL CREEK
DB 512 PG 0495 0081186
DB 661 PG 0181 0122892
- No portion of Building Area is located in Flood Zone. See AC101 #2 for nearest flood ways.
- Finish floor to remain.



2 Site Plan - Flood Ways
1" = 400'-0"



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Site Layout

C 101
A

Structural General Notes

GENERAL

- Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise.
- Material, workmanship, and design shall conform to the referenced Building Code.
- For dimensions not shown in the Structural Drawings, see the Architectural Drawings.
- Contractor responsibilities include, but are not limited to, the following:
 - Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission prior to installation of associated work.
 - Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.
- Equipment/Framing Verification
 - Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor.
 - Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.
- The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
- Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.
- Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors.
- Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.

CAST-IN-PLACE CONCRETE

1. Concrete Properties

1.1 Normal Weight Structural Concrete

	28-Day, f _c (min.) (max.)	w/cm Ratio	Entrained Air (min.) (max.)
Footings (Isolated / Continuous)	4,000 psi	----	None Required
Grade Beams	3,000 psi	----	None Required
Slabs-on-Ground	3,500 psi	0.48	None Required
Slabs on Composite Steel Deck	3,500 psi	0.48	None Required
Mechanical Equipment Pads:			
Interior	3,000 psi	----	None Required
Exterior	3,000 psi	----	5.0 +/- 1.5%
All Other Structural Concrete	4,000 psi	0.40	5.0 +/- 1.5%

Note: All concrete shall be assigned the exposure classes FO, SO, WO, and CO; except concrete in Aggressive Environment shall be assigned the exposure classes F3, S3, W1, and C2 (see ACI 318).

- Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.
- Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.
 - Conduit shall not be placed within the slab-on-ground. Conduit shall be installed below the slab-on-ground within the granular subbase.
- Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
- Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.
- Curing
 - Begin curing procedures immediately following commencement of the finishing operation.
 - Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.
 - All concrete slabs that are to have exposed stained or polished concrete finish shall be wet cured a minimum of 7 days in strict accordance with ACI 301. The acceptable methods of wet curing are ponding, continuous fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.

REINFORCEMENT

1. Reinforcing Bars: ASTM A615, Grade 60

- Reinforcing bars are not to be welded.

2. Welded Wire Reinforcement (WWR): ASTM A1064, 8" minimum side and end laps

3. Reinforcement Placement (UNO)

3.1 Concrete Reinforcement Cover

Below Grade:	Unformed	3" clear
Slabs	Formed	2" clear 3/4" clear

3.2 Masonry reinforcing steel: Place in the center of CMU cells, unless otherwise noted in drawings.

4. Reinforcement Splices

- Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.

4.2 Splice Lengths (UNO)

Concrete Reinforcement: Class B Tension Lap
Masonry Reinforcement: #4 - 24" / #5 - 30" / #6 - 48" / #7 - 60"

CONCRETE CONSTRUCTION	INSPECTION FREQUENCY	REFERENCED STANDARD
1. Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances.	P	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 / IRC 1908.4
2. Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment depth.	C	ACI 318 17.8.2 / AISC 360 N5.7
3. Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor type, anchor dimensions, hole diameter and clearing procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	C	ACI 318 17.8.2
4. Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: Verify adhesive type, anchor rod dimensions, hole diameter and clearing procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	C	ACI 318 17.8.2.4
5. Verify use of required design mix.	P	ACI 318 Ch. 19, 26.4.3, 26.4.4 / IRC 1904.1, 1904.2, 1908.2, 1908.3
6. Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project.	C	ACI 318 26.5, 26.12 / IRC 1908.10 ASTM C172, ASTM C911
a. Mold (5) 48-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days, or mold (4) 12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days.	C	
b. Remaining specimen(s) shall be broken as directed by the Structural Engineer if compressive strengths do not appear adequate.	C	
c. For each set molded, record: i. Slump ii. Air Content iii. Unit Weight iv. Temperature, ambient and concrete v. Batch and discharge times vi. Location and placement vii. Any pertinent information, such as addition of water, addition of admixtures, etc.	C	
d. Report in writing on the same day as tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.	C	
e. Verify compliance with construction documents.	C	ACI 318 26.5 / IRC 1908.6-1908.8
7. Inspection of concrete conveying and placement for proper application techniques.	P	ACI 318 26.5.3-26.5.5 / IRC 1908.9
8. Inspection for maintenance of specified curing temperature and location.	P	ACI 318 26.11.1, 26.11.2
9. Inspection of formwork for shape, location, and dimensions of the concrete member being formed.	P	ACI 318 17.10
10. Perform testing of Floor Flatness and Levelness of concrete slab placements in accordance with ASTM E1155. See specifications.	P	ACI 117-10

WOOD

- Structural framing plans depict the primary structural framing system. Contractor shall provide secondary and miscellaneous framing as required to complete the project (see architectural drawings).
- Dressed Seasoned Lumber: S4S, 19% maximum moisture content at time of dressing.
 - Interior and Exterior Loadbearing Walls:
 - Southern Pine, No. 2 grade
 - Lintels, Floor Joists and Beams:
 - Southern Pine, No. 2 grade
- Wood in Contact with Concrete or Masonry or Exposed to Weather:
 - Foundation grade pressure-treated. Use galvanized nails in pressure-treated wood.
- Structural Glued Laminated Timber: Comply with American Institute of Timber Construction (AITC). Minimum allowable bending stress = 2,400 psi (dry).

4. Structural Panels

- Floor Panels: Tongue-and-groove APA rated Sturd-I-Floor (plywood or OSB).
 - Panels shall have a Span Rating of 24 and Exposure 1.
 - Panels shall be placed with the "Strength Axis" perpendicular to the supports. End joints shall be staggered.
 - Floor Panels Shall be both glued and nailed
 - Panels shall be nailed with 10d (0.148 dia.) at a maximum of 12 inches at both panel edge supports and at intermediate supports unless noted otherwise. Nailing shall be completed before glue sets.
 - Panels shall have glue applied at supports, end joints and tongue and groove joints. Adhesives shall conform to APA Specification AFG-01 or ASTM D3498, and applied in accordance with the adhesive manufacturer's recommendations. For OSB panels with sealed surfaces, use only solvent-based glues in accordance with panel manufacturer's recommendations.
- Wall Panels: APA rated sheathing
 - Panels may be installed either horizontally or vertically.
 - Panels shall be a minimum of 24-inches wide.
 - There shall be a 1/8-inch gap at panel edges and ends.
- Roof panels: APA rated sheathing (plywood or OSB).
 - Panels shall have a Span Rating of 40/20 and Exposure 1.
 - Panels shall be placed with the long direction perpendicular to the supports and shall be a minimum of 24-inches wide and continuous over at least 2 supports.
 - Roof panels shall be both glued (exterior glue) and nailed.
 - Long panel edges shall be supported with Edge Clips; one located midway between each support. There shall be a 1/8-inch gap at panel edges and ends.
 - OSB panels shall be installed with the textured side up.

5. Wood Shearwalls

- Shearwalls shall be constructed with 15/32" Structural I APA rated wood structural panels. Panels shall be oriented with the long dimension in the vertical direction. Oriented strand board (OSB) may be used in lieu of plywood. OSB panels shall be APA rated and shall comply with Product Standard PS 2.
 - Insulating Sheathing Systems shall not be substituted for wood shearwalls.
- Solid 2x blocking shall be provided at unsupported, horizontal panel edges.
- Nail panels with 8d nails spaced at 6 inches at the perimeter of the panels and at 12" at intermediate supports, UNO.
- Double 2x framing studs shall be used at the ends of each shear wall, UNO.

Connections for Structural Timber: Galvanized strong-tie connectors by the Simpson Company or approved

CONCRETE MASONRY

- Specified Compressive Strength, f_m = 2,000 psi
Minimum Net Area Compressive Strength of Masonry Unit: 2,000 psi (ASTM C90 w/ Type M or S Mortar)
- Mortar:

Walls below grade	Type M
Bearing walls	Type M or S
Partition walls	Type N
- Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476.
 - Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.
 - Masonry webs on each side of grouted cells shall be fully mortared. Exterior single wythe CMU walls shall have head joints fully mortared.
- Horizontal Joint Reinforcement, UNO:
 - Two (2) No. 9 gage longitudinal wires at 16" vertically. Lap wire 6" minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing.
- Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.
- CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.
- Contraction Joints: Unless noted otherwise on the Plans, maximum spacing of 1½ times of wall height or 24 feet (whichever is less) in all concrete masonry walls (including partitions) above grade.
- Submit written construction procedures prior to the start of masonry construction.
- Grout fill beam and joist pockets in masonry walls after welds are inspected.
- Contractor shall submit drawings coordinated with masonry and MPE contractors indicating the MPE penetrations through load bearing and non-load bearing walls. These drawings shall indicate the size and location of all penetrations and shall be submitted to the Architect/Structural engineer prior to installation.

CAST STONE

- Connections shown for precast elements (cast stone) are minimum conditions provided to show the basic support elements considered in the design. Additional or modified support connections may be required. The Contractor and cast stone manufacturer shall be responsible for all cast stone design including support connections. These elements shall be designed by a specialty engineer licensed in the project state. Shop drawings and calculations shall be sealed and submitted to the Architect/Engineer for review. The design shall distribute the load to the structure in the same general fashion as shown in the details. The specialty engineer shall also design any additional tie-backs and stability connections required for the support of the cast stone. All embedments, pins, and bolts for the cast stone shall be stainless steel. See specifications for additional information.

NON-SHRINK GROUTING

- Non-shrink grout under steel base plates shall be a packaged hydraulic cement grout and conform to ASTM C1107.
- Mixing of grout, surface preparation of concrete substrate, placement, thermal control, and curing of grout shall conform to the manufacturer's instructions.
- Work related to the grout under steel base plates shall conform to all requirements of ACI 351.4-14, "Specification for Installation of Cementitious Grouting between Foundations and Equipment Bases".
- The required minimum compressive strength at 28 days is 6,000 psi.
- Mix grout to its flowable, self-leveling consistency, and place under base plate in a flowable state.
- Use forms to contain grout. Forms shall be set at a distance from the edge of the baseplate on all sides equal to at least the thickness of the grout bed, and no less 1.5-in.
- Non-shrink grout used for patching, repair, and other specific applications shall be submitted for review and approval by engineer.

POST-INSTALLED ANCHORS

- Post-installed anchors shall only be installed where indicated on the structural drawings, unless approved by engineer of record.
- The below products are the design basis for this project. Product diameter and embedment shall be as shown in the details. Install products IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). Refer to the project building code and/or evaluation report for special inspections and proof load requirements. Substitution requests for products other than those listed below may be submitted by the contractor to the Engineer-of-Record (EOR) for review. Substitutions will only be considered for products having a research report recognizing the product for the appropriate application under the project building code. Substitution requests shall include calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design basis product.
- For Anchoring into Concrete
 - Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917), Simpson Strong-Bolt 2 (ICC-ES ESR-3037), DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2818), or DeWalt/Powers Power-Stud+ SD2 (ICC-ES ESR-2502). Minimum embedment = 6 times anchor diameter, UNO.
 - Screw Anchors: Simpson Titen-HD (ICC-ES ESR-2713), DeWalt Screw-Bolt (ICC-ES ESR-3889) or Hilti Kwik HUS-EZ (ICC-ES ESR-3027). Minimum Embedment = 6 times anchor diameter, UNO.
- For Anchorage into Solid Grouted Concrete Masonry
 - Expansion Anchors: Hilti Kwik Bolt 3 (ICC-ES ESR-1385), Simpson Strong-Bolt 2 (IAPMO-IUES ER-240), Simpson Wedge-All (ICC-ES ESR-1396) or DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2966). Minimum embedment = 6 times anchor diameter, UNO.
 - Screw Anchors: Simpson Titen-HD (ICC-ES ESR-1056) or Powers Wedge-Bolt+ (ICC-ES ESR-1678), Hilti Kwik HUS-EZ (ICC-ES ESR-3056). Minimum Embedment = 6 times anchor diameter, UNO.
- Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified. The structural Engineer of record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of anchor installation.

STEEL JOISTS

- Steel Joists, Bridging, and Connections: Designed, fabricated, and erected according to Specifications of the Steel Joist Institute (SJI).
 - Net Uniform Uplift Design Load for Roof Joists determined from components and cladding wind pressures (See Design Criteria) with a Roof Dead load = 20 psf
 - Bridging shall be designed to fully brace top chord of joists under service loads for roof joists not braced by steel roof deck.
 - Top chord extensions or extended ends are to be designed for the same tabulated uniform loads used in the design of the associated joists plus a concentrated load of 300 pounds at the end of the extension or extended end, unless noted otherwise on the Drawings.
- Design of steel joists, bridging, and their connections shall be the sole responsibility of the Contractor. Submit shop drawings and calculations sealed by an Engineer licensed in the project state.
- Contractor shall coordinate the construction and erection of walls, beam framing, steel decking, etc. to ensure compatibility of roof and wall systems considering pitch and camber of steel joists.
- The contractor shall account for joist camber and change in deck direction with respect to requirements for all roofing elements.

STEEL DECK

- Steel Roof Deck: See Plan for gauge, galvanized
- Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.

STRUCTURAL STEEL

- Steel Shapes
 - W-Shapes: ASTM A992 (Grade 50)
 - Angles, Channels, Plates, UNO: ASTM A36
 - Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B
 - Pipe Structural Sections: ASTM A53, Grade B
- Anchor Rods, Bolts, and Studs
 - Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.
 - Bolts: 3/4" Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.
 - The following connections are slip-critical:

Any field modified connection	Connections indicated as slip-critical (SC)
-------------------------------	---
 - Headed Studs: AWS D1.1. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off.
- Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" referenced in the referenced Building Code.
- Connections shall be detailed based on the design information provided in the Structural Documents.
 - Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction" referenced in the referenced Building Code.
 - Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer, completed prior to and submitted with the Structural Steel Shop Drawings.
 - Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.
 - Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction" referenced in the referenced Building Code.
 - Axial Tension Strength of Connections
 - Where steel beams are non-composite and at roof deck areas, beam and girder end connections shall have a minimum nominal axial tensile strength equal to five percent of the required shear strength for LRFD.
- Shop Drawings: Submittal shall adequately depict structural members and connections.
- Welders shall be qualified for the work performed in accordance with AWS D1.1. Welder qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector.
- Galvanizing
 - Galvanize environmentally exposed steel, for example mechanical equipment supports and screenwalls.
 - Galvanized members shall have proper treatment performed to accept paint.
 - Touch-up welds and abrasions in galvanized members in accordance with ASTM A780
- Shelf Angles Supporting Masonry Veneer
 - All shelf angles supporting exterior building veneer are to be galvanized. Touch-up welds and abrasions in accordance with ASTM A780.
 - Galvanized brick lintel angles receiving paint shall have proper treatment performed to accept paint.
 - Sections and details presented in the structural documents may not be construed as defining the elevation of shelf angles. Elevations of shelf angles must be coordinated with the architectural drawings to ensure shelf angles are positioned at the proper elevation for masonry coursing.
 - Contractor shall submit elevations and plans depicting all masonry shelf angles and their respective elevations for approval by the architect and structural engineer prior to construction.



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 Date: 09/02/2024
 Project No: 20240626001

800 Bay Pointe Dr., Brandon, MS 39047
 Existing Remodel

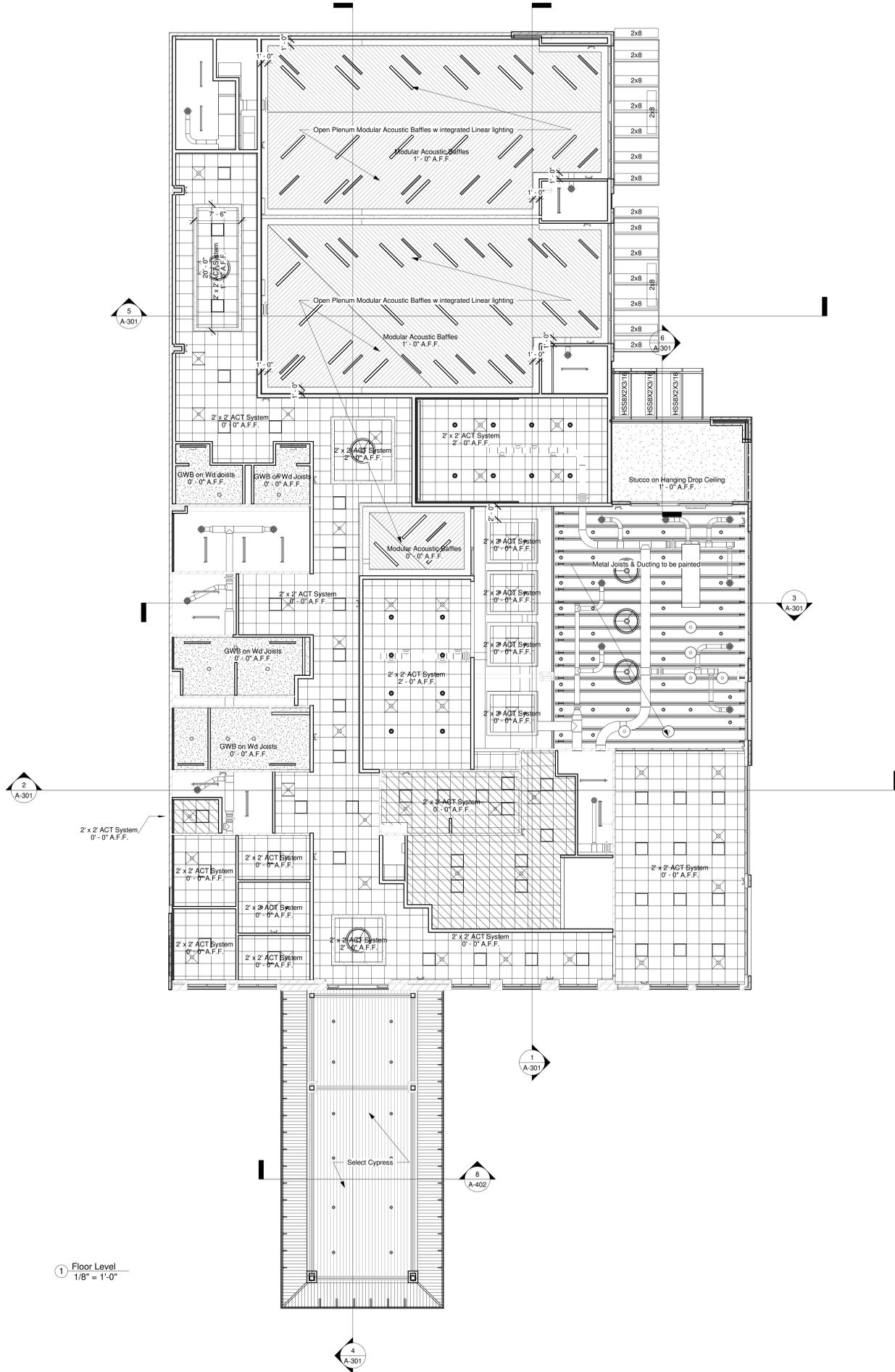
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Construction Documents

Revision	Rev Date
CD	8/9/24

Reference

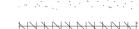
S 100 A



General Ceiling Notes

1. Anywhere listed as open to structure shall be painted including all items attached to structure above 8'-0" AFF horizontal line UNO.
2. All drywall furr downs shall extend 2" above and below adjacent ceilings.
3. At all Modular Baffle Ceilings, paint existing structure and components above prior to Baffle installation

Ceiling Legend

-  • 2x2 Grid Ceiling
-  • (Empty) Open to Structure [painted]
-  • Drywall/gypsum Painted
-  • 2x2 Vinyl Grid Ceiling



Bay Pointe Country Club Remodel

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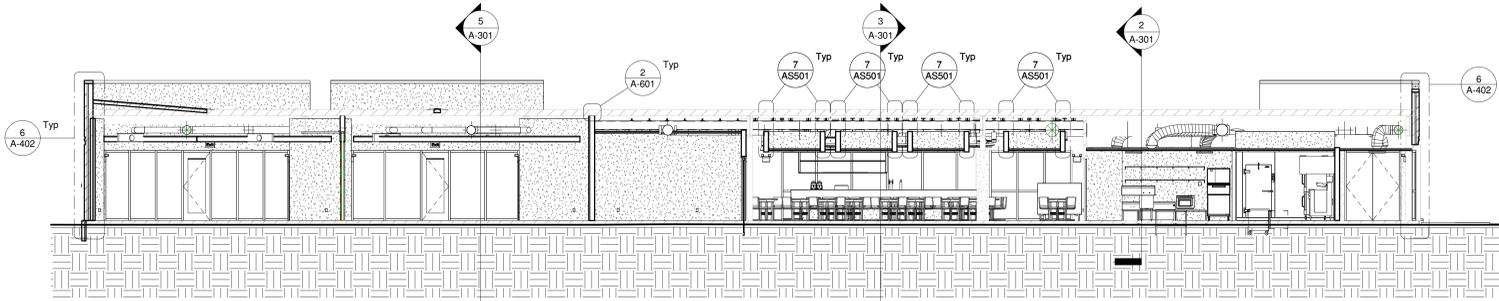
Construction Documents

Revision	Rev Date
DD	7/26/24

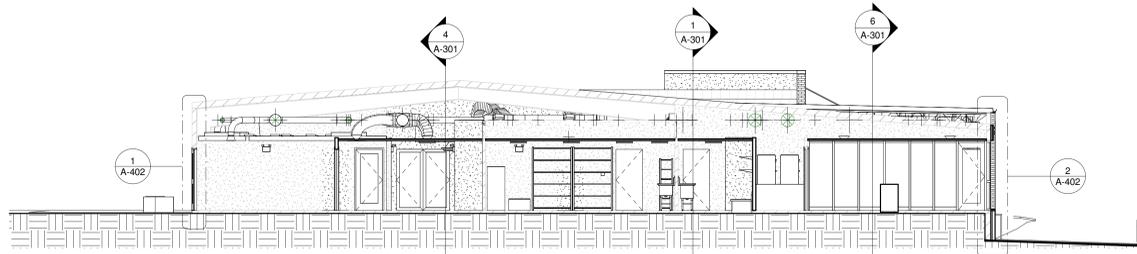
Reflected Ceiling Plan

141

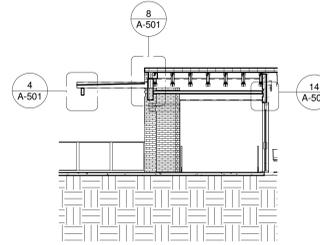
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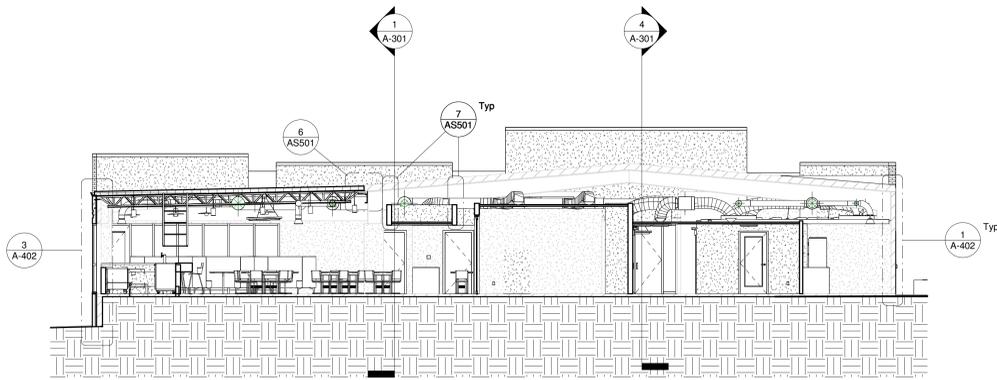
1 Long Section South
1/8" = 1'-0"



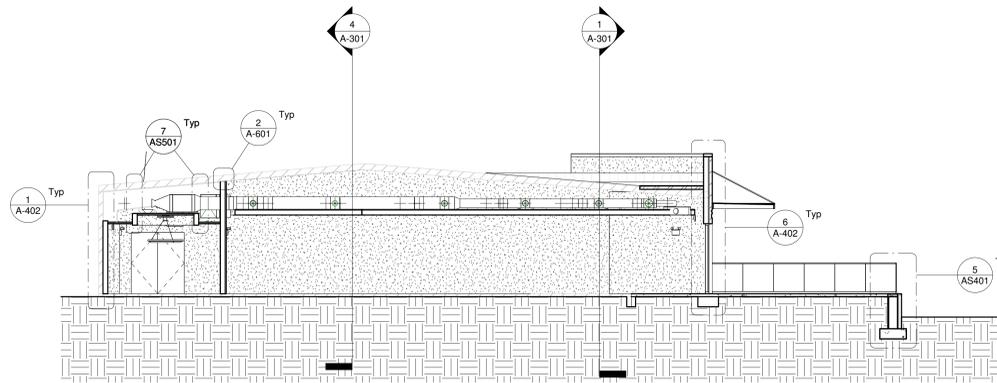
2 Cross Section at Kitchen
1/8" = 1'-0"



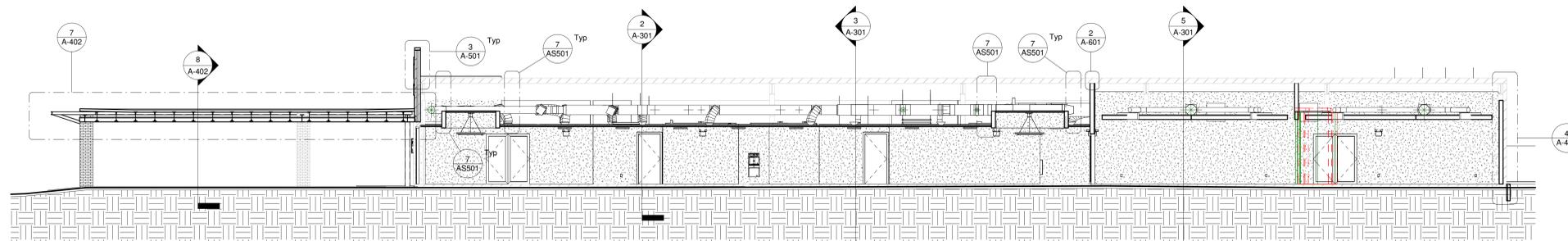
6 Section @ Porch
1/8" = 1'-0"



3 Cross Section at Restaurant
1/8" = 1'-0"



5 Cross Section at Porch
1/8" = 1'-0"



4 Long Section North
1/8" = 1'-0"

General Section Notes

1. Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces.
2. All anchors, fasteners, relief angles and attachment devices to be hot dipped galvanized steel.
3. Brace back tops of partition walls to structure at a minimum of 4' CC per brace.

MS CONSTRUCTION LAW - 1. PURSUANT TO SECTION 73-1-39, PRIVATELY OWNED BUILDINGS THAT ARE THREE (3) STORIES IN HEIGHT OR MORE, OR BUILDINGS THAT ARE MORE THAN 500 SQUARE FEET, UNLESS THE PROJECT IS SPECIFICALLY EXEMPTED BY SECTION 73-1-38, 2. PURSUANT TO SECTION 73-1-38, IF THE PROJECT IS SPECIFICALLY EXEMPTED BY THE STATE OF MISSISSIPPI IF THE PROJECT CONTAINS MORE THAN TEN THOUSAND (10,000) SQUARE FEET OF GROUND FLOOR AREA, OR IF THE PROJECT IS THREE (3) OR MORE STORIES IN HEIGHT, UNLESS SPECIFICALLY EXEMPTED BY SECTION 73-1-38.

STAMP NOT VALID WITHOUT SIGNATURE

Bay Pointe Country Club Remodel

Project No. 20240628001
Date 09/02/2024

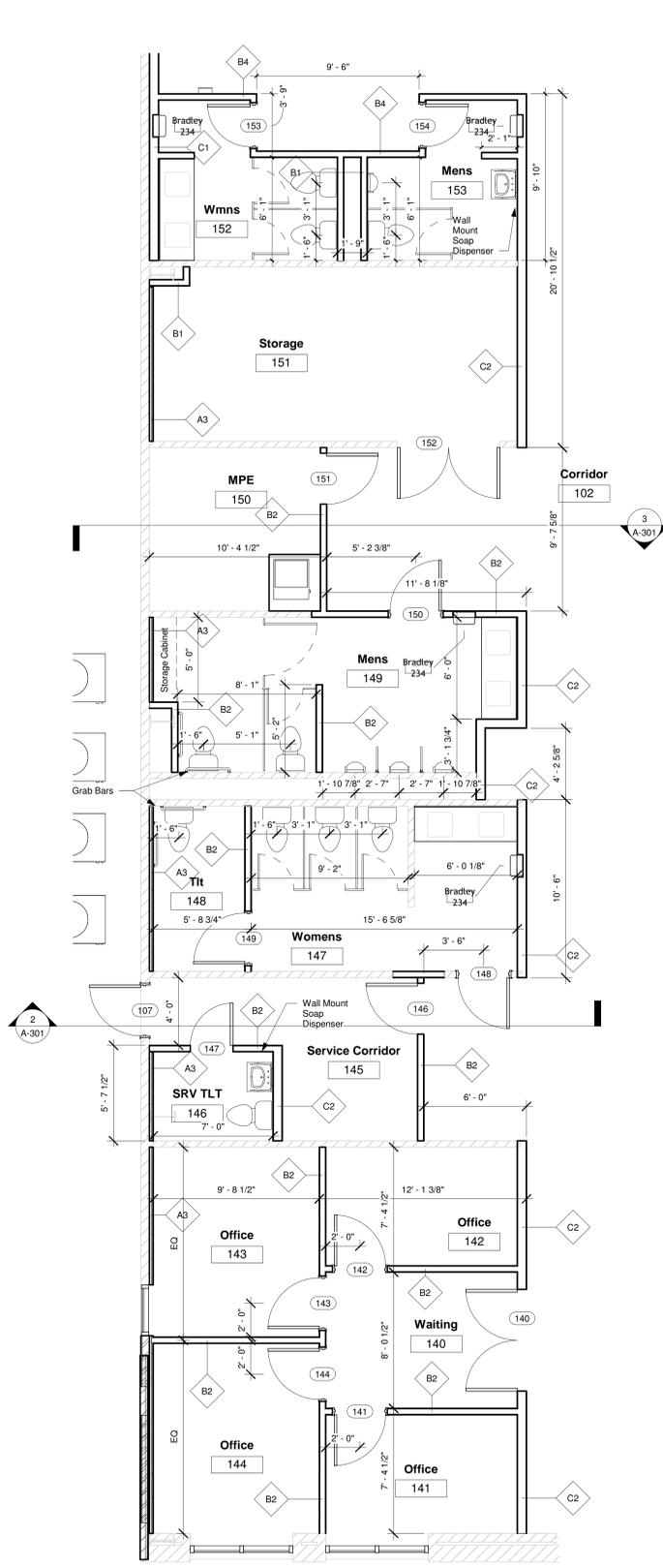
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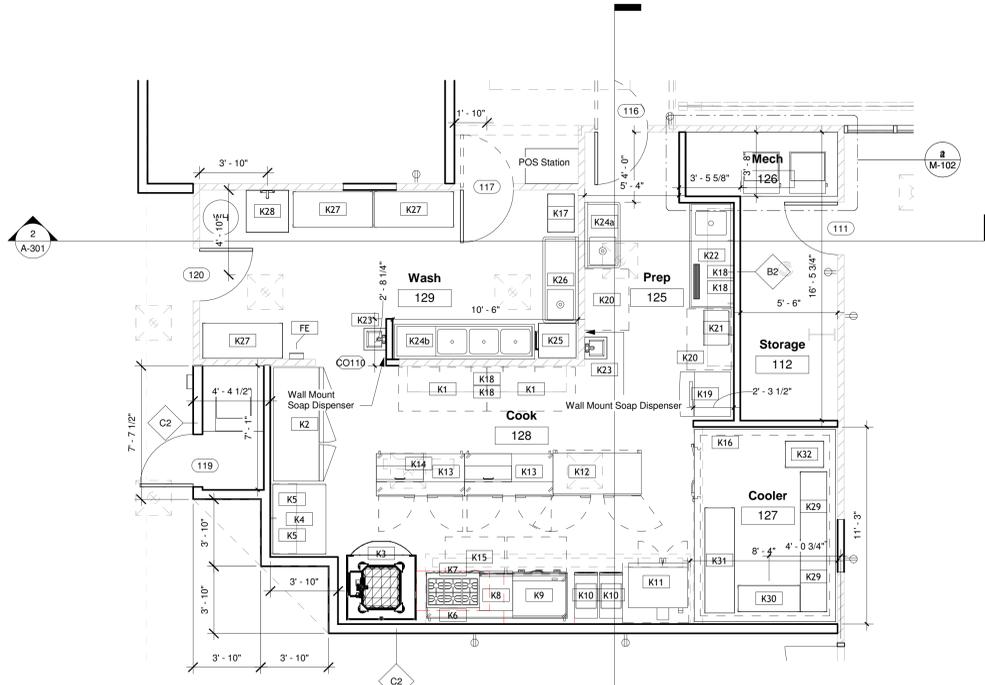
Construction Documents	
Revision	Rev Date
DD	7/26/24

Building Sections

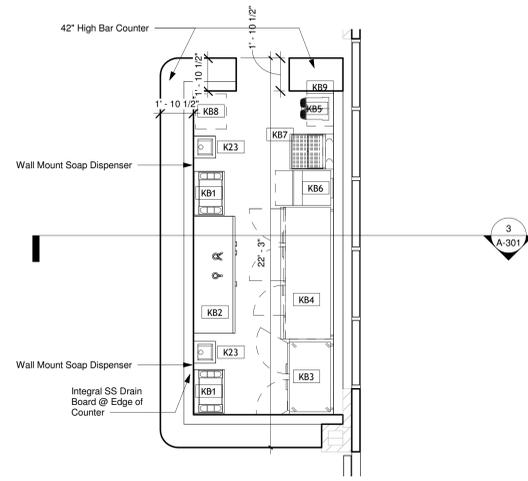
301 A



1 LVL 1 - Toilets
1/4" = 1'-0"



2 LVL 1 Kitchen
1/4" = 1'-0"



3 Restaurant Bar
1/4" = 1'-0"

Kitchen Equipment Schedule

Type Mark	Type	Count	Overall Dimensions	Electrical Comments	Plumbing Comments	#
K1	SS Work Table - 30x60	2	60x30x36	-	-	K1
K2	3 Door Upright Freezer	1	78x34x80	Per Manf	-	K2
K3	Pizza Oven	1	48x48x72	Per Manf	-	K3
K4	Work Table - Bakers Top	1	48x36x36	-	-	K4
K5	SS Wall Shelf 48"x18"	2	48x18x4	-	-	K5
K6	Chef Base 96 inch	1	96x32x24	1/3 HP 115v/60Hz/PH1 4.4 Amps	-	K6
K7	36" Gas Cooktop - Stainless Steel	1	36x24x12	-	150k BTUs	K7
K8	Gas Charbroiler Counter	1	24x24x12	-	80k BTUs	K8
K9	Gas Griddle, Countertop	1	36x32x12	-	84.9 BTUs	K9
K10	Gas Floor Fryer	2	16x32x42	1/3 HP 120v/60Hz/PH1 10 Amps	122k BTUs	K10
K11	Gas Convection Oven	1	40x39x72	Per Manf	50k BTUs	K11
K12	Freezer Worktop	1	60x30x36	1/2 HP 115v/60Hz/PH1 4.8 Amps	-	K12
K13	Prep Table Sandwich and Salad	2	60x30x36	1/3 HP 115v/60Hz/PH1 6.5 Amps	-	K13
K14	Heat Lamp	1	48x7x3	120v/60Hz/PH1 6.5 Amps	-	K14
K15	Exhaust Hood with Fire Suppression	1	180x48x24	1.5 HP 115v/60Hz	Per Manf	K15
K16	Walk In Cooler w/ Aluminum Floor	1	122x96x108	3/4 HP 208-230v/60Hz/PH1 19 Amps CU 115v/60Hz/PH1 BM	-	K16
K17	Wire Shelving - 18" x 26"	1	26x18x86	-	-	K17
K18	SS Wall Shelf 108"x18"	4	108x18x4	-	-	K18
K19	Cube Style Ice Maker	1	30x30x72	208-230v/60Hz/PH1 11 Amps	Per Manf	K19
K20	SS Work Table - 30x42	2	30x42x36	-	-	K20
K21	Microwave Oven	1	24x18x16	120v/60Hz/PH1 13 Amps	-	K21
K22	Beverage Counter	1	72x30x36	-	Per Manf	K22
K23	Handwash Sink	4	<varies>	-	<varies>	K23
K24a	SS 1 Compartment Sink	1	45x24x36	-	Per Manf	K24a
K24b	Dishtable with Potsinks	1	95x24x36	-	Per Manf	K24b
K25	Door Type Dishwasher	1	26x26x60	220v/60Hz/PH1 7 Amps DW 208-240v/60Hz/PH1OR3 WH	Per Manf	K25
K26	Soiled Dishtable	1	59x24x36	-	Per Manf	K26
K27	Wire Shelving - 24" x 54"	3	54x24x86	-	-	K27
K28	Mop Sink	1	29x29x16	-	Per Manf	K28
K29	Wire Shelving - 18" x 48"	2	48x18x86	-	-	K29
K30	Wire Shelving - 18" x 42"	1	42x18x86	-	-	K30
K31	Keg Storage Rack	1	72x20x76	-	-	K31
K32	Sheet Pan Rack	1	18x26x70	-	-	K32
KB1	Ice Bin	2	30x21x33	-	Per Manf	KB1
KB2	Draft Beer Cooler	1	80x30x36	1/4 HP 115v/60Hz/PH1 2.8 Amps	-	KB2
KB3	Refrigerated Cabinet 48inch	1	48x30x36	1/5 HP 115v/60Hz/PH1 1.8 Amps	-	KB3
KB4	Refrigerated Cabinet 93inch	1	91x30x36	1/4 HP 115v/60Hz/PH1 2.8 Amps	-	KB4
KB5	Frozen Drink Machine Double	1	16x20x16	3/4 HP	-	KB5
KB6	Undercounter Glasswash	1	24x27x34	1 HP 208v/60Hz/PH1 33 Amps	Per Manf	KB6
KB7	Modular Bar Die	1	24x21x33	-	-	KB7
KB8	Bottle Storage Unit	1	18x18x30	-	-	KB8
KB9	SS Work Table - 24x18	1	24x18x24	-	-	KB9

General Finish Notes

- All flooring is to extend underneath casework.
- All door frames in masonry wall to be located 8" off perpendicular wall (typ.) unless indicated otherwise. All door frames in metal stud walls to be located 4" off perpendicular walls (typ.) unless indicated otherwise. Provide MIN clearances required per section 404 of the 2010 ADA standard for accessible design at all doors. Provide MIN clear 4" from door frames and millwork.
- Reference building elevations (A-200 Sheets) for exterior control joint locations.
- All DS tie into boot and underground water line unless otherwise noted, see Civil.
- See A-500s series sheets for floor finish patterns.
- All CMU wall corners & window sills to have 1" diameter radius. Bottom course of CMU corners are not to be radiused to receive finish base as scheduled.
- All backsides of bathroom partition doors and single unit restroom doors to have a Coat Hook (CH) installed.
- All dimensions are to interior finish face U.N.O.
- FE - Fire Extinguisher Cabinet
- KB - Knox Box
- Provide wall mounted toilet paper dispensers at all toilets.
- Provide Grab Bars as shown, lengths and mounting heights shall meet ADA 2010 Requirements.



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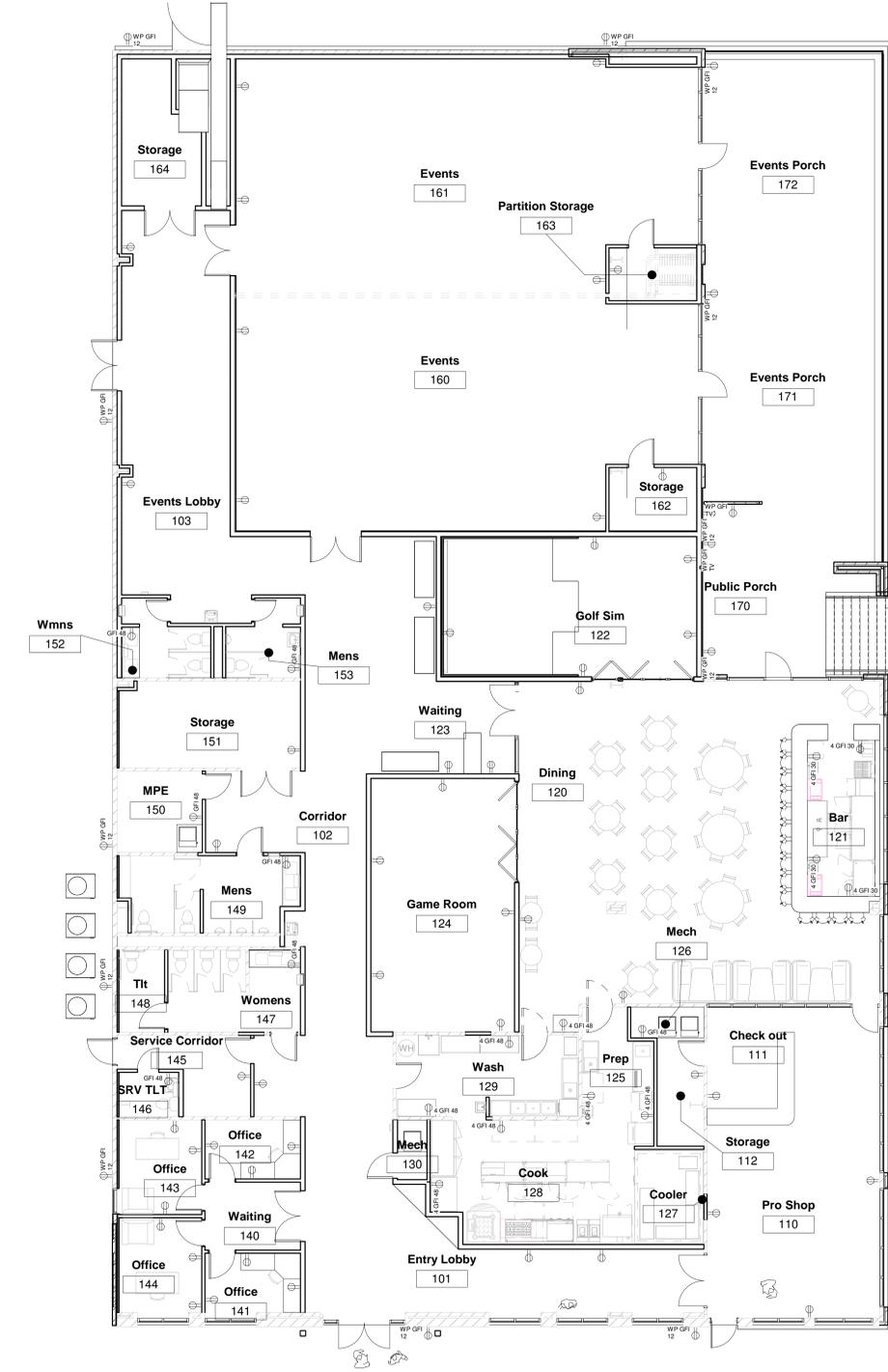
Construction Documents

Revision	Rev Date
DD	7/26/24

Enlarged Details

401

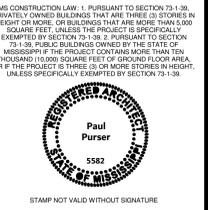
A



1 Main Floor
1/8" = 1'-0"

General Furniture Notes

- All furniture by owner and not in contractor scope.



Bay Pointe Country Club Remodel

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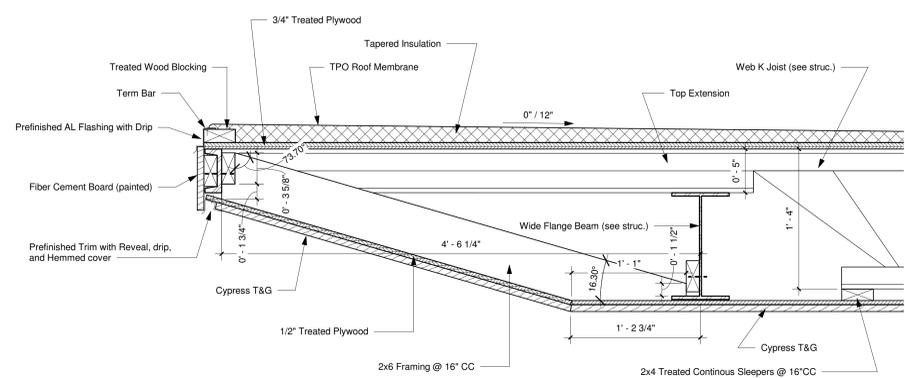
800 Bay Pointe Dr, Brandon, MS 39047
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Construction Documents

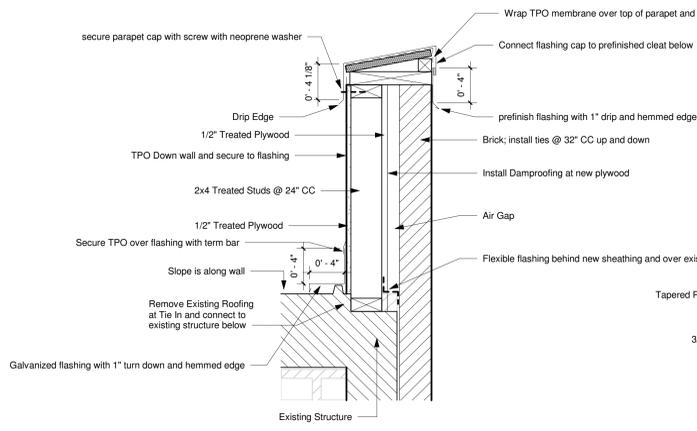
Revision	Rev Date

Furniture Plan

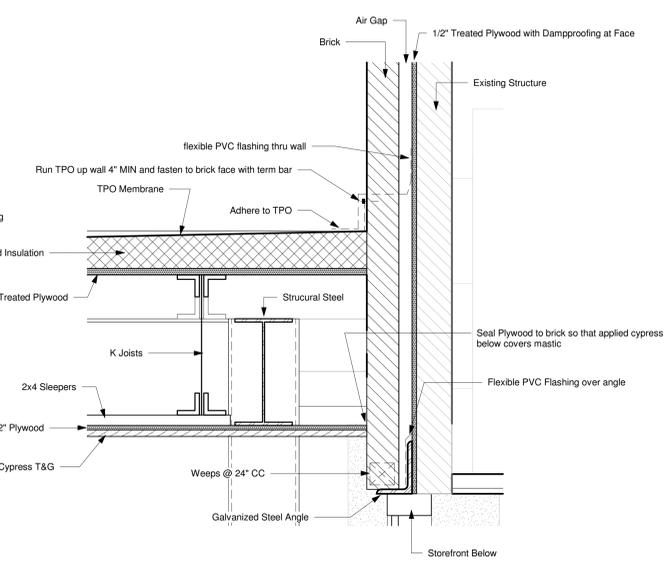
151
A



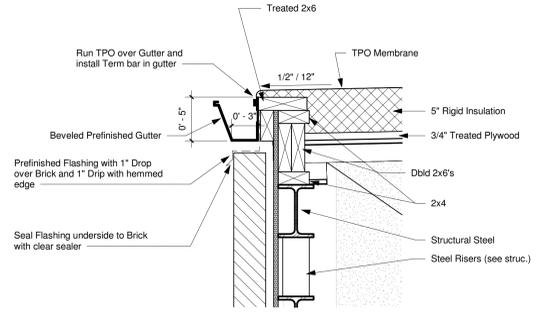
2 Awning Eave Detail
1 1/2" = 1'-0"



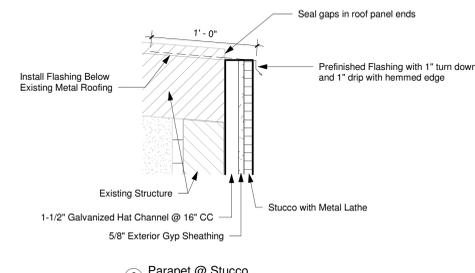
3 Wall Section Parapet
1 1/2" = 1'-0"



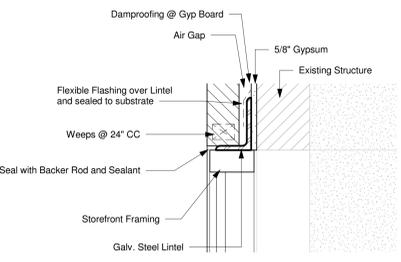
5 Awning Connection to Building
1 1/2" = 1'-0"



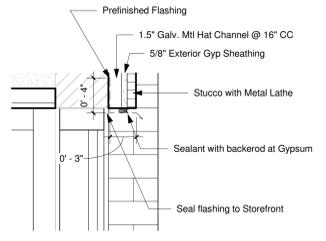
7 Top of Wall @ New Roof
1 1/2" = 1'-0"



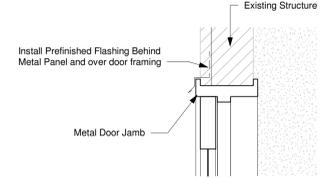
6 Parapet @ Stucco
1 1/2" = 1'-0"



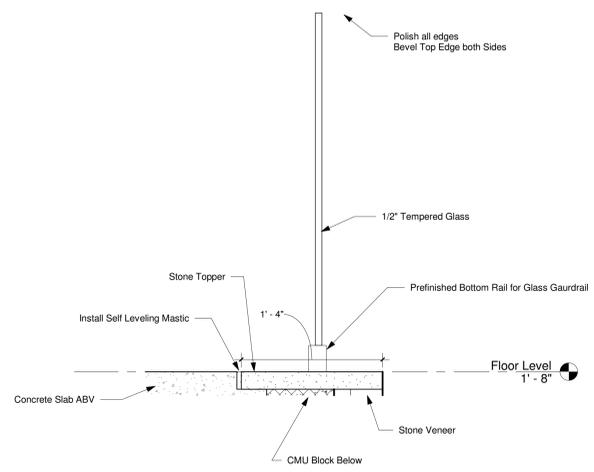
12 Window Head @ Existing Wall with Brick
1 1/2" = 1'-0"



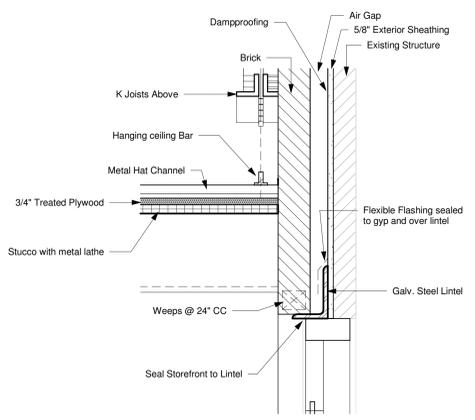
13 Window Head @ Existing Wall with Stucco
1 1/2" = 1'-0"



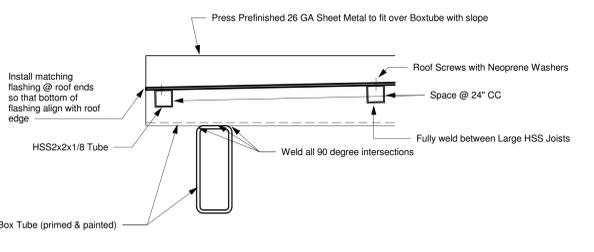
10 Exterior Door Head @ Existing Wall
1 1/2" = 1'-0"



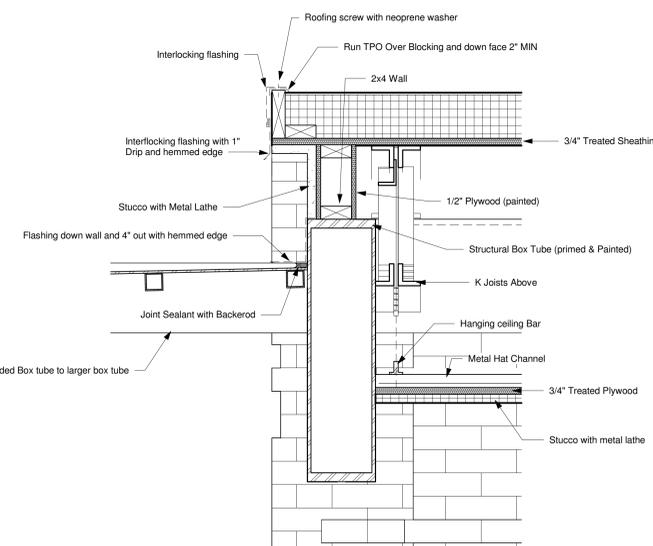
1 Gaurdrail
1 1/2" = 1'-0"



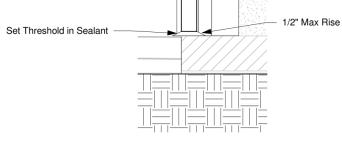
14 Section @ Porch - Callout 3
1 1/2" = 1'-0"



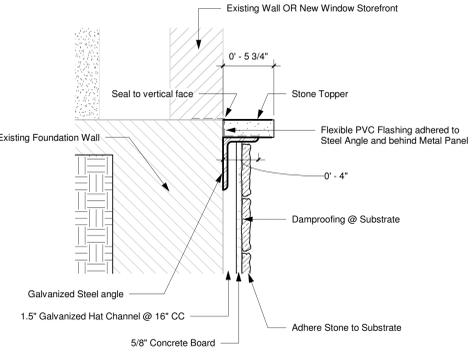
4 Section @ Porch - Callout 1
1 1/2" = 1'-0"



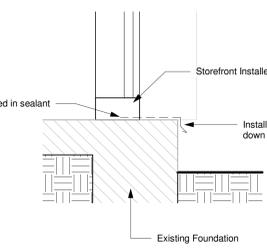
8 Section @ Porch - Callout 2
1 1/2" = 1'-0"



11 Exterior Door Threshold @ Existing Wall
1 1/2" = 1'-0"



9 Bottom of Stone Wall
1 1/2" = 1'-0"



15 Window Sill @ Porch
1 1/2" = 1'-0"

Room Schedule

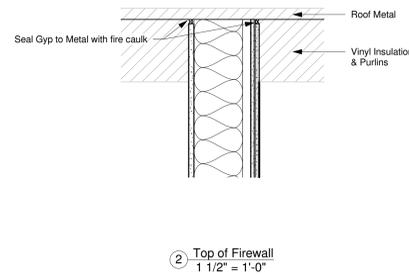
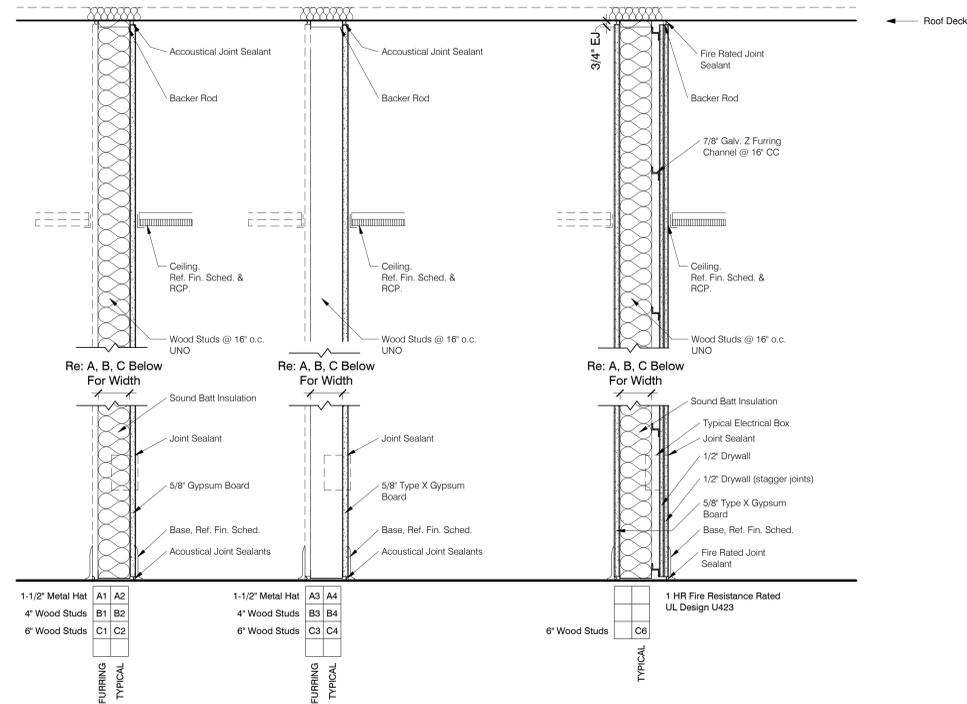
Number	Name	Area	Perimeter	Ceiling Finish	Wall Finish	Floor Finish	Base Finish	Comments	#
101	Entry Lobby	458 SF	114' - 7 1/4"	2x2 ACT	Wallpaper	LVT	WD Base		101
102	Corridor	844 SF	214' - 10 3/4"	2x2 ACT	Wallpaper	LVT	WD Base		102
103	Events Lobby	668 SF	146' - 1 1/4"	2x2 ACT	Wallpaper	LVT	WD Base		103
110	Pro Shop	643 SF	113' - 8 5/8"	2x2 ACT	Painted Gypsum	Carpet Squares	WD Base		110
111	Check out	102 SF	40' - 0 3/8"	2x2 ACT	Painted Gypsum	Carpet Squares	WD Base		111
112	Storage	70 SF	36' - 7 1/2"	2x2 ACT	Painted Gypsum	Sealed Concrete	Rubber Base		112
120	Dining	1409 SF	197' - 4 3/4"	OTS & 2x2 ACT	Painted Gypsum & Decorative Finishes	LVT	WD Base		120
121	Bar	160 SF	74' - 5 5/8"	OTS	N/A	LVT	WD Base		121
122	Golf Sim	487 SF	92' - 7 7/8"	2x2 ACT	Painted Gypsum	LVT	WD Base		122
123	Waiting	192 SF	57' - 1"	Mod AB	Wallpaper	LVT	WD Base		123
124	Game Room	505 SF	93' - 8"	2x2 ACT	Painted Gypsum	LVT	WD Base		124
125	Prep	100 SF	43' - 6 3/4"	2x2 Vinyl ACT	FRP	Quarry Tile	Rubber Base		125
126	Mech	32 SF	24' - 6 1/4"	2x2 ACT	Painted Gypsum	Sealed Concrete	Rubber Base		126
127	Cooler	89 SF	38' - 3 1/2"	Manf. Finish	Manf. Finish	Quarry Tile	N/A		127
128	Cook	349 SF	81' - 11 1/2"	2x2 Vinyl ACT	FRP	Quarry Tile	Rubber Base		128
129	Wash	206 SF	66' - 9 3/4"	2x2 Vinyl ACT	FRP	Quarry Tile	Rubber Base		129
130	Mech	24 SF	21' - 1"	OTS	Painted Gypsum	Sealed Concrete	Rubber Base		130
140	Waiting	90 SF	38' - 5 3/4"	2x2 ACT	Wallpaper	LVT	WD Base		140
141	Office	83 SF	37' - 9 1/2"	2x2 ACT	Painted Gypsum	Carpet Squares	Rubber Base		141
142	Office	78 SF	36' - 4 3/4"	2x2 ACT	Painted Gypsum	Carpet Squares	Rubber Base		142
143	Office	109 SF	41' - 10"	2x2 ACT	Painted Gypsum	Carpet Squares	Rubber Base		143
144	Office	113 SF	43' - 2 3/4"	2x2 ACT	Painted Gypsum	Carpet Squares	Rubber Base		144
145	Service Corridor	107 SF	50' - 7 1/4"	OTS	Painted Plywood	Sealed Concrete	Rubber Base		145
146	SRV TLT	37 SF	24' - 6"	2x2 ACT	Painted Gypsum	Sealed Concrete	Rubber Base		146
147	Womens	149 SF	62' - 5 3/4"	Painted Gypsum	Tile	Tile	Tile Cove		147
148	Tlt	52 SF	30' - 2 1/2"	Painted Gypsum	Tile	Tile	Tile Cove		148
149	Mens	179 SF	71' - 2 1/4"	Painted Gypsum	Tile	Tile	Tile Cove		149
150	MPE	96 SF	39' - 3 1/4"	OTS	Painted Plywood (Fire Treated)	Sealed Concrete	Rubber Base		150
151	Storage	217 SF	63' - 1 3/4"	OTS	Painted Gypsum	Sealed Concrete	Rubber Base		151
152	Wmns	81 SF	43' - 11 7/8"	Painted Gypsum	Tile	Tile	Tile Cove		152
153	Mens	71 SF	40' - 7 3/8"	Painted Gypsum	Tile	Tile	Tile Cove		153
160	Events	1420 SF	164' - 7 7/8"	Mod AB	Painted Gypsum	Carpet Squares	WD Base		160
161	Events	1447 SF	164' - 10 7/8"	Mod AB	Painted Gypsum	Carpet Squares	WD Base		161
162	Storage	77 SF	35' - 7"	OTS	Painted Gypsum	Carpet Squares	Rubber Base		162
163	Partition Storage	65 SF	33' - 9 1/8"	OTS	Painted Gypsum	Carpet Squares	Rubber Base		163
164	Storage	140 SF	53' - 5 7/8"	OTS	Painted Gypsum	Sealed Concrete	Rubber Base		164
170	Public Porch	469 SF	112' - 1 7/8"	N/A	N/A	Stamped Concrete	N/A		170
171	Events Porch	475 SF	87' - 3 5/8"	N/A	N/A	Stamped Concrete	N/A		171
172	Events Porch	573 SF	97' - 4 1/4"	N/A	N/A	Stamped Concrete	N/A		172

HOW TO USE:

- A letter designation i.e. "A" references the stud size.
- The number following the letter ("1", "2", etc.) designates the construction type i.e. furring, typical partition, fire-rated, acoustical, etc.
- No fire-rated walls should have a "furring" designation, coordinate any discrepancies with architect.
- Typically, odd-numbered walls will be furring walls and even numbered walls will be typical walls with gyp on both sides.

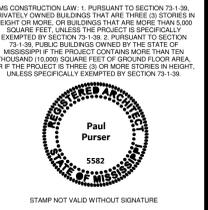
Partition Types Notes:

- Gypsum Board required on both sides of stud framing at all "TYPICAL" partitions.
- Gypsum board required on one side of studs at "CHASE OR FURRING" (or FURRING) partitions as indicated by the dashed lines on one side of the studs.
- "Demising Walls" are those walls separating guest rooms from one another.
- Reference wall sections & details for exterior wall information.
- All walls indicated to receive tile in finish schedule, provide 5/8" concrete board in lieu of gypsum.



General Partition Notes

- Refer to symbols legend and floor plan for additional fire rated indications.
- Where walls are noted to extend to B.O. deck, the wall materials (gyp, stud, &/or CMU) are to extend to not greater than 1" from the B.O. structural deck. Where walls have gyp. board, the gyp. is to be cut parallel to the structural deck form, not less than 3/4". Remaining voids shall be filled with compressible sound attenuation &/or backer rod & sealant at non-rated assemblies & sealed smoke-tight with backer rod & fire-stopping sealant at fire or smoke-rated assemblies.
- Control joints and expansion joints in fire or smoke-rated partitions shall be constructed to maintain the fire rating of the partition using continuous firestopping material within the joint. Control joints and expansion joints in un-rated partitions shall be constructed to resist sound transmission using fire-resistant sound attenuation blanket material within the joint.
- At un-rated partitions, the partition construction shall be identical to the construction of the fire-rated partition, except that acoustical sealant shall be used in lieu of firestopping.
- Partition type reference indicated on the floor plans do not included the applied finishes. Refer to room finish schedule, room finish notes, and interior details for applied finishes.
- Where items are recessed in the walls of fire-rated partitions, provide additional gyp. wallboard, fireproofing, and/or firestopping around the recessed portion of the item in thickness and construction as required to maintain the fire rating of the partition.
- At all locations where fire-rated partitions abut or attach to fireproofed structural members, the fire rating of both the structural members and the partition shall be maintained.
- In addition to any other partition requirements, all joints in the gypsum wallboard surfaces shall be taped, floated, and painted, including fire-rated partitions, un-rated partitions, exposed surfaces, concealed surfaces, and surfaces above the ceiling.
- All stud walls in toilets, laundry, kitchen, or other wet areas to receive moisture resistant gyp. board. Tile backer board to be used on all walls scheduled to receive tile finishes. Contractor to seal all penetrations in non-rated walls with sound attenuation blankets and/or acoustic sealant to maintain that wall's STC rating.
- All exposed interior CMU corners and edges shall be bullnosed.
- Provide moisture-resistant tile backer board at all CMU walls scheduled to receive CT wainscot.



Bay Pointe Country Club Remodel
 Project No. 20240628001
 Date 09/02/2024

PURSER & COMPANY | 601.376.9647 DRAWINGS@PURSERANDCOMPANY.COM

800 Bay Pointe Dr., Brandon, MS 39047
 Existing Remodel

Construction Documents

Revision	Rev Date

Types & Schedules

601 A

PLUMBING SYMBOLS & ABBREVIATIONS

ABBREVIATIONS

A.S.M.E.	AMERICAN SOCIETY OF MECH. ENGINEERS	HR.	HOUR
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIAL	H.W.	HOT WATER
A/C	AIR CONDITIONING	I.D.	INSIDE DIAMETER
ABV.	ABOVE	IND.	INDIRECT
APPROX.	APPROXIMATE	INV.	INVERT
BLDG.	BUILDING	I.W.	INDIRECT WASTE
BOT.	BOTTOM	KIT.	KITCHEN
BRKR.	BREAKER	K.W.	KILOWATT
B.W.V.	BACK WATER VALVE	MECH.	MECHANICAL
CL.	CENTER LINE	MIN.	MINUTE
C.O.	CLEAN OUT	M.H.	MANHOLE
C.P.	CHROME PLATED	MOD.	MODEL
C.V.	CHECK VALVE	N.I.C.	NOT IN CONTRACT
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONT.	CONTINUATION	Ø	DIAMETER
COND.	CONDENSATE	O.D.	OUTSIDE DIAMETER
CONN.	CONNECTION	O.S.&Y.	OUTSIDE SCREW & YOKE VALVE
CAP.	CAPACITY	P.&T.	PRESSURE & TEMPERATURE
CLG.	CEILING	PLUMB.	PLUMBING
C.I.P.	CAST IRON PIPE	PROP.	PROPERTY
C.W.	COLD WATER	R.D.	ROOF DRAIN
DN.	DOWN	RED.	REDUCER
DR.	DRAIN	REINF.	REINFORCING
DET.	DETAIL	REQ'D.	REQUIRED
DIAG.	DIAGRAM	R.F.	ROOF
DIAM.	DIAMETER	R.M.	ROOM
DIM.	DIMENSION	R.P.M.	REVOLUTIONS PER MINUTE
DOM.	DOMESTIC	R.W.L.	RAIN WATER LEADER
DWG.	DRAWING	SAN.	SANITARY
EA.	EACH	SCH.	SCHEDULE
E.D.F.	ELECTRIC DRINKING FOUNTAIN	SECT.	SECTION
ELEC.	ELECTRICAL	SHT.	SHEET
ELEV.	ELEVATION	SPECS.	SPECIFICATIONS
EMERG.	EMERGENCY	SPKR.	SPRINKLER
E.W.H.	ELECTRIC WATER HEATER	S/S	STAINLESS STEEL
EXIST.	EXISTING	S.S.	SERVICE SINK
F.D.	FLOOR DRAIN	TEMP.	TEMPERATURE
FL.	FLOOR	T.O.P.	TOP OF PIPE
F.O.	FUEL OIL	TYP.	TYPICAL
FT.	FOOT	T.S.	TAMPER SWITCH
F.U.	FIXTURE UNIT	VAC.	VACUUM
F.C.O.	FLUSH CLEAN OUT	V.C.P.	VITRIFIED CLAY PIPE
FIN.	FINISHED	V.T.R.	VENT THRU ROOF
FIXT.	FIXTURE	V.	VENT
FLT.	FUTURE	VS.	VENT STACK
GA.	GAUGE	W/	WITH
G.V.	GATE VALVE		
GAL.	GALLONS		
GALV.	GALVANIZED		
GEN.	GENERAL		
G.P.H.	GALLONS PER HOUR		
G.P.M.	GALLONS PER MINUTE		
H.B.	HOSE BIBB		
HD.	HEAD		
H.P.	HORSE POWER		

PIPING SYMBOLS

	ACID WASTE		UNION
	ACID VENT		CLEAN OUT PLUG
	SANITARY SEWER		FLOOR CLEAN OUT
	SANITARY VENT		IN LINE STRAINER
	GREASE WASTE		WATER HAMMER SHOCK ABSORBER (PLAN VIEW)
	STORM DRAIN		WATER HAMMER ARRESTOR (ELEVATION)
	DENTAL COMPRESSED AIR		POST INDICATOR VALVE
	DENTAL VACUUM		FLOW SWITCH
	COMPRESSED AIR		FIRE DEPT. SIAMESE CONNECTION
	TEMPERED WATER		SEMI-RECESSED CHROME PENDENT
	COLD WATER		UPRIGHT FIRE SPRINKLER HEAD
	HOT WATER (120°)		INSTITUTIONAL TYPE PENDENT SPRINKLER
	HOT WATER RECIRCULATION (120°)		INSTITUTIONAL TYPE SIDEWALL
	HOT WATER (140°)		INSTITUTIONAL TYPE EXTENDED COVERAGE SIDEWALL
	HOT WATER RECIRCULATION (140°)		DRY PENDENT SPRINKLER
	HOT WATER (180°)		EXTRA LARGE ORIFICE 286° UPRIGHT
	HOT WATER RECIRCULATION (180°)		PRESSURE GAUGE WITH COCK
	FIRE PROTECTION WATER		PLUMBING RISER
	AUTOMATIC FIRE SPRINKLER		CONNECTION OF NEW TO EXISTING
	FIRE TEST DRAIN		HOSE BIBB W/ VACUUM BREAKER
	GAS		RISER DOWN
	FUEL OIL SUPPLY		FLOW IN DIRECTION OF ARROW
	FUEL OIL RETURN		RISER UP
	FUEL OIL VENT		PIPE RISE OR DROP
	CUT-OFF VALVE (ABOVE GRADE)		TOP CONNECTION BRANCH
	CUT-OFF VALVE (BELOW GRADE)		BOTTOM CONNECTION BRANCH
	PRESSURE REDUCING VALVE		SIDE CONNECTION BRANCH
	CHECK VALVE		CAP ON END OF PIPE
	BALANCING VALVE		CONCENTRIC REDUCER
	O.S.&Y. VALVE		ECCENTRIC REDUCER
	PRES. AND TEMP. RELIEF VALVE		
	GAS COCK		
	WATER FLOW MEASURING DEVICE		

GENERAL NOTES:

CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PLUMBING INSTALLATIONS WITH OTHER TRADES SUCH AS ELECTRICAL, STRUCTURAL, HVAC, LIGHTING, CEILING CONSTRUCTION AND SUPPORTS, ETC. ANY CONFLICTS ARISING OUT OF A LACK OF CONSTRUCTION COORDINATION OR DUE TO LACK OF CONSIDERATION FOR THE NEEDS OF OTHER TRADES SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER.

ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER THAT CONFLICTS WITH AIR CONDITIONING DUCTS AND WITH CEILING LIGHTS WILL NOT OCCUR. SOME PIPING SHALL BE INSTALLED WITH SLEEVES THROUGH WALLS. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE SIZES OF SLEEVES AND THE ELEVATIONS AT WHICH OPENINGS ARE TO BE MADE PRIOR TO INSTALLATION OF STRUCTURAL MEMBERS.

FOR EVERY PIPE SLEEVE PENETRATING FIRE RATED WALLS AND SLABS, USE A FIRE BARRIER WRAP STRIP, FIRE RATED CAULK AND PUTTY, ASTM E-814, U.L. LISTED, CAPABLE OF RAPID EXPANSION WHEN EXPOSED TO HEAT. COMPLIES WITH BOCA, ICBO AND SIBC. PROVIDES 3 HOUR FIRE RATING. SEE FIRESTOPPING SPECIFICATION.

ALL SANITARY AND STORM DRAINAGE PIPING SHALL BE INSTALLED AT 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. FIXTURE ARMS AND SMALL BRANCHES SHALL BE SLOPED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.

PROVIDE ACCESS PANELS FOR SHOCK ABSORBERS AND GATE VALVES AND CLEANOUT COVERS FOR CLEANOUT PLUGS AS SPECIFIED. EACH ITEM SHALL BE PROVIDED WITH ITS ACCESS PANEL OR COVER. ACCESS PANELS AND CLEANOUT COVERS SHALL BE EASILY ACCESSIBLE AND CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THESE ITEMS SO THAT SHOCK ABSORBER, VALVE, OR CLEANOUT LIES WITHIN WALL OR CEILING IMMEDIATELY BEHIND COVER OR PANEL. CONTRACTOR SHALL COORDINATE THE LOCATION OF PANELS AND COVERS WITH OTHER TOILET ACCESSORIES AND FIXTURES AS WELL AS ARCHITECTURAL LAYOUT.

DURING FINAL PUNCH LIST INSPECTION, CONTRACTOR SHALL HAVE ALL CLEANOUT COVERS AND ACCESS PANELS OPENED AND ITEMS EXPOSED FOR VERIFICATION AS TO THEIR INSTALLATION BY CONTRACTING OFFICER.

PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAINS.

HVAC SYMBOLS & ABBREVIATIONS

ABBREVIATIONS

AD	ACCESS DOOR	EWT	ENTERING WATER TEMPERATURE	OPNG	OPENING
AHU	AIR HANDLING UNIT	EUH	ELECTRIC UNIT HEATER	P	PRESSURE
AI	ANALOG INPUT	EXH	EXHAUST	PAT	PREHEAT AIR TEMP
AO	ANALOG OUTPUT	FCU	FAN COIL UNIT	PSI	POUNDS PER SQUARE INCH
AFF	ABOVE FINISH FLOOR	FD	FIRE DAMPER	PTU	PACKAGED TERMINAL UNIT
AFG	ABOVE FINISH GRADE	F/SD	FIRE/SMOKE DAMPER	QTY	QUANTITY
AFMD	AIR FLOW MEASURING DEVICE	FPM	FEET PER MINUTE	RAD	RETURN AIR DAMPER
ARCH	ARCHITECTURAL	FSTAT	FREEZESTAT	REQ'D	REQUIRED
BD	BACKDRAFT DAMPER	GPM	GALLONS PER MINUTE	R/A	RETURN AIR
BI	BINARY INPUT	GUH	GAS UNIT HEATER	RAT	RETURN AIR TEMP.
BO	BINARY OUTPUT	H	HUMIDISTAT	RPM	REVOLUTIONS PER MINUTE
BTUH	BRITISH THERMAL UNITS/HOUR	HWV	HEATING WATER VALVE	SA	SOUND ATTENUATOR
BYP	BYPASS	HWP	HOT WATER PUMP	S/A	SUPPLY AIR
CAT	COOLING AIR TEMP	KW	KILOWATT	SAT	SUPPLY AIR TEMP
CFM	CUBIC FEET PER MINUTE	LAT	LEAVING AIR TEMPERATURE	SD	SPLITTER DAMPER
CHP	CHILLED WATER PUMP	LF	LINEAR FEET	SF	SUPPLY FAN
CHWV	CHILLED WATER VALVE	LG	LONG	SP	STATIC PRESSURE
CLG	CEILING	LVG	LEAVING	S	SENSOR
DB	DRY BULB	LWT	LEAVING WATER TEMP	SS	STAINLESS STEEL
df	DEGREES FAHRENHEIT	MAT	MIXED AIR TEMP	T	THERMOSTAT
DIFF	DIFFUSER	MAX	MAXIMUM	TSP	TOTAL STATIC PRESSURE
DN	DOWN	MBH	THOUSAND BTU/HR	TYP	TYPICAL
DWG	DRAWING	MBC	MODULAR BUILDING CONTROLLER	UH	UNIT HEATER
EA	EACH	M.D.	MOTORIZED DAMPER	VAV	VARIABLE AIR VOLUME
EAT	ENTERING AIR TEMPERATURE	MECH	MECHANICAL	VFD	VARIABLE FREQUENCY DRIVE
EF	EXHAUST FAN	MVD	MANUAL VOLUME DAMPER	VD	VOLUME DAMPER
ELEC	ELECTRICAL	NC	NORMALLY CLOSED	2W	TWO WAY
EL	ELEVATION	NO	NORMALLY OPEN	2WO	TWO WAY CORNER
EQ	EQUAL	O/A	OUTSIDE AIR	3W	THREE WAY
ESP	EXTERNAL STATIC PRESSURE	OAT	OUTDOOR AIR TEMP	4W	FOUR WAY
EWB	ELECTRIC WALL HEATER	OAD	OUTDOOR AIR DAMPER	WB	WET BULB
		OBD	OPPOSED BLADE DAMPER	WFMD	WATER FLOW MEASURING DEVICE

PIPING SYMBOLS

	AUTOMATIC AIR VENT		GAS COCK
	BUTTERFLY VALVE		HOSE BIB W/ VACUUM BREAKER
	BALANCING VALVE		HOT WATER HEATING RETURN
	BOTTOM CONNECTION BRANCH		HOT WATER HEATING SUPPLY
	CAPPED PIPE END		O.S.&Y. VALVE
	CHECK VALVE		PIPE RISE OR DROP
	COMBINATION SHUT-OFF/ BALANCING VALVE		RETURN LINE
	CONCENTRIC REDUCER		RISER DN
	CONDENSATE DRAIN		RISER UP
	CHILLED WATER RETURN		SLURRY LINE
	CHILLED WATER SUPPLY		SOLENOID VALVE
	CUT-OFF VALVE (ABOVE GRADE)		SIDE CONNECTION BRANCH
	CUT-OFF VALVE (BELOW GRADE)		TEE DOWN
	CUT-OFF VALVE (GATE VALVE WITH HOSE COUPLING)		TEE UP
	ECCENTRIC REDUCER		THERMOMETER
	ELBOW UP		THERMOMETER WELL
	ELBOW DOWN		TOP CONNECTION BRANCH
	FLEXIBLE PIPE CONNECTION		UNION
	FLOW IN DIRECTION OF ARROW		2-WAY AUTOMATIC CONTROL VALVE
	FUEL OIL RETURN		3-WAY AUTOMATIC CONTROL VALVE
	FUEL OIL SUPPLY		Y-TYPE STRAINER
	FUEL OIL VENT		Y-TYPE STRAINER
	GAUGE COCK		WATER FLOW MEASURING DEVICE (WFMD)

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	RISE IN DUCT, IN DIRECTION OF AIR FLOW
	DROP IN DUCT, IN DIRECTION OF AIR FLOW
	SUPPLY AIR DUCT, UP
	SUPPLY AIR DUCT, DN
	RETURN, EXHAUST, OR OUTSIDE AIR DUCT, UP
	RETURN, EXHAUST, OR OUTSIDE AIR DUCT, DN
	RETURN OR EXHAUST GRILLE, CEILING MTD.
	DIFFUSER SYMBOL 200 → CFM 4-WAY
	DIFFUSER SYMBOL 200 → CFM 2-WAY
	DIFFUSER SYMBOL 200 → CFM OR 200 → CFM
	DUCTWORK
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES.)
	SPLITTER FURNISH MANUAL VOLUME DPR. IN EACH LEG OF ALL SPLITTERS.
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	LINEAR SLOT DIFFUSER
	THERMOSTAT, HUMIDISTAT, SENSOR WALL THERMOSTAT MTD. 5'-0" AFF.
	INDICATES POINT OF CONNECTION BETWEEN NEW AND EXISTING APPURTENANCES.
	INDICATES POINT OF DISCONNECT BETWEEN NEW AND EXISTING APPURTENANCES.

A. INSTALLATION

ALL PIPING OR DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR ABOVE CEILINGS. PROVIDE ACCESS PANELS IN HARD CEILINGS ADJACENT TO OPERABLE MECHANICAL DEVICES INCLUDING DAMPERS, VALVES, CONTROLS, AND TERMINAL UNITS (IF NOT ACCESSIBLE THROUGH ATTIC). PANELS TO MAINTAIN SAME FIRE RATING AS CEILING SYSTEM AND HAVE HINGED AND LATCHED DOOR. PANELS TO BE MINIMUM 12"x12" AND MAXIMUM 24"x24" DEPENDING ON THE DEVICE TO BE ACCESSED.

THERMOSTATS SHALL BE LOCATED 5'-0" ABOVE FLOOR AND SHALL CLEAR ALL EQUIPMENT. THERMOSTATS LOCATED NEXT TO DOORS SHALL BE LOCATED ON LATCH SIDE OF DOOR, AND AT SAME LEVEL AS LIGHT SWITCH. COORDINATE WITH ARCHITECTURAL.

COORDINATE DIFFUSER, GRILLE, AND REGISTER LOCATIONS WITH LAY-IN CEILING GRID AND ARCHITECTURAL CEILING PLAN. EXACT LOCATION OF DEVICES IS NOT CRITICAL BUT SHOULD BE LOCATED WITHIN TWO FEET OF SPOT SHOWN ON DRAWINGS.

THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COORDINATION OF WORK OF ALL TRADES TO ASSURE PROPER INSTALLATION AND CLEARANCES. DRAWINGS ARE ESSENTIALLY DIAGRAMMATICAL AND THEREFORE CONTRACTOR SHOULD PLAN EXACT ROUTING OF DUCT AND PIPE BASED ON FIELD CONDITIONS. PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS NECESSARY (AT NO ADDITIONAL COST TO OWNER) TO COMPLETE INSTALLATION AND MAINTAIN REQUIRED CEILING HEIGHTS.

ACCESS PANELS IN DUCTWORK AND NON-ACCESSIBLE CEILINGS SHALL BE PROVIDED FOR OPERATION AND MAINTENANCE OF ALL BOXES, COILS, VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. PROVIDE MINIMUM 24"x24" CEILING ACCESS PANEL FOR VAV BOXES AND 12"x12" FOR DAMPERS. COORDINATE EXACT PLACEMENT OF ACCESS PANELS AND EQUIPMENT SO THAT REASONABLE MAINTENANCE SPACE IS AVAILABLE. NO ACCESS PANELS SHALL BE PROVIDED IN SECURE AREAS.

INSTALLATION OF ALL EQUIPMENT AND SYSTEMS SHALL BE IN ACCORDANCE WITH STANDARD DETAILS, SECTIONS, AND ELEVATIONS SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL MAINTAIN A CLEAR SERVICE AREA AROUND ALL EQUIPMENT FOR MAINTENANCE SUCH AS, FILTER REMOVAL, MOTOR AND DRIVE ADJUSTMENTS, COIL AND TUBE CLEANING OR REMOVAL.

PROVIDE ALL DRAIN PIPING FROM MECHANICAL EQUIPMENT WITH 2" AIR GAP CONNECTION AT WASTE PIPE, FLOOR DRAIN, OR ETC.

B. DUCTWORK

ALL DUCT RUNOUTS TO DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES SHALL BE COMPLETE WITH MANUAL VOLUME DAMPERS UNLESS NOTED OTHERWISE. LOCATE DAMPERS SO THEY ARE ACCESSIBLE FROM LAY-IN CEILING, ATTIC, OR ACCESS PANEL.

ROUND SUPPLY RUNOUTS TO DIFFUSERS SHALL BE HARD METAL. MAXIMUM 6'-0" OF FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO DIFFUSER.

DUCT TRANSITIONS SHALL BE PROVIDED AS REQUIRED FROM ALL EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED ON DRAWINGS.

PROVIDE EASED INLET RECTANGULAR TO ROUND TAPS AT DUCT TAPS IF ROUND DUCT SIZE IS TOO LARGE FOR BELL MOUTH TAP TO TRUNK DUCT.

ALL EXTERIOR OPENINGS (INTAKE AND EXHAUST DUCTS, LOUVERS, FANS, ETC.) SHALL BE PROVIDED WITH BIRD SCREENING WHICH SHALL BE EASILY REMOVED FOR CLEANING AND ACCESS TO EQUIPMENT.

ALL DUCT SIZES INDICATE OUTSIDE DIMENSIONS OF SHEET METAL. NO ALLOWANCE FOR INSULATION IS SHOWN ON DRAWINGS.

PROVIDE HEMMED EDGES OVER RAW ENDS OF INSULATION AND SEAL WITH MASTIC FOR ALL LINED RETURN AIR DUCTS STUBBED INTO RETURN AIR PLENUMS.

ALL DUCT PLENUMS AND DUCTS (MINIMUM OF 5'-0" FROM LOUVER) CONNECTED TO EXTERIOR LOUVERS SHALL HAVE LIQUID TIGHT SEAMS AND LIQUID TIGHT CONNECTION TO LOUVER. SLOPE DOWN TO LOUVER AND ATTACH SO WATER WILL DRAIN TO OUTSIDE. PROVIDE 24"x24" (OR EQUIVALENT) ACCESS DOOR AT LOUVER IN EASILY ACCESSIBLE LOCATION FOR ACCESS TO LOUVER PLENUM AND LOUVER.

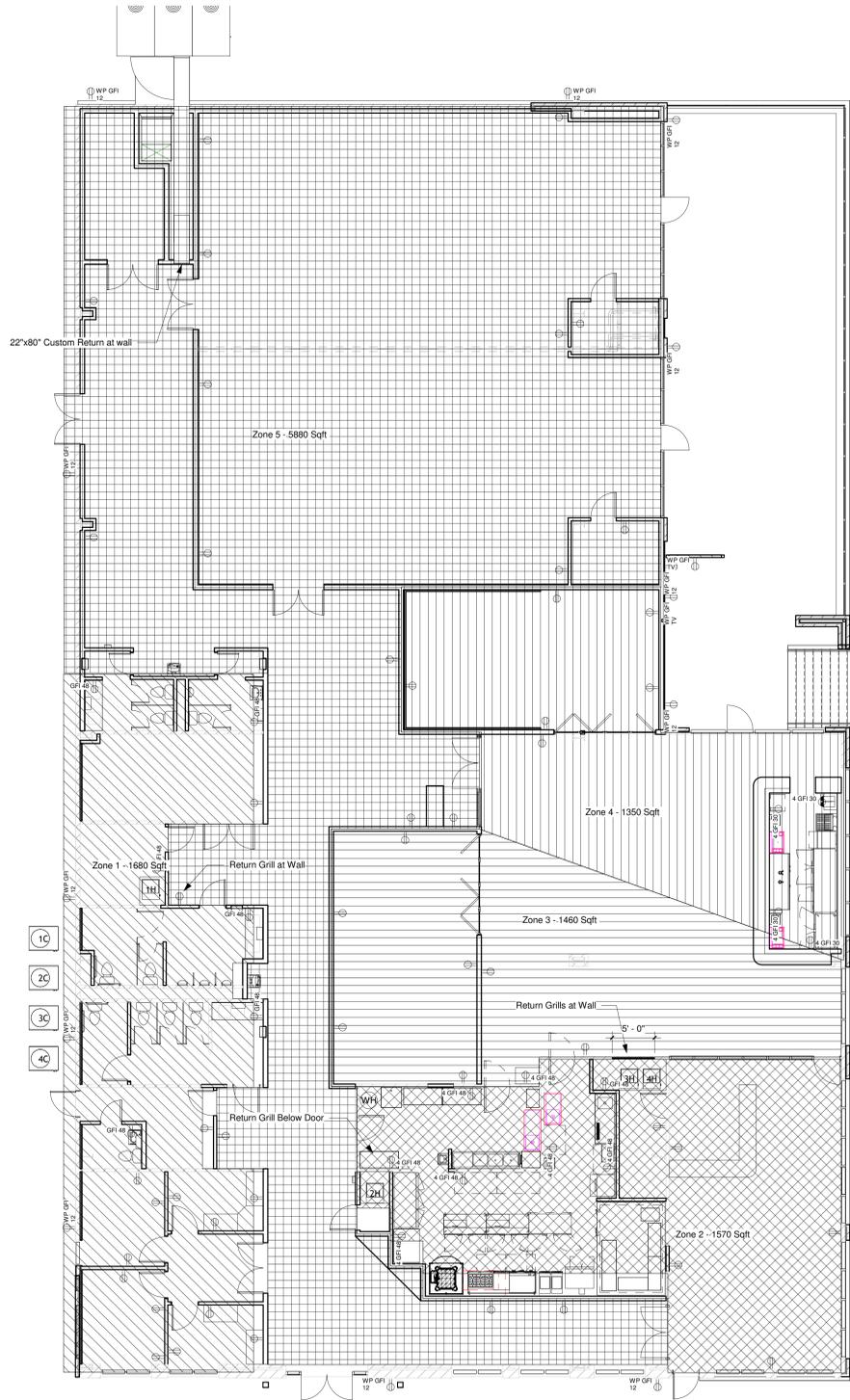
ALL RECTANGULAR DUCT SHALL BE GALVANIZED SHEET METAL WITH 2" EXTERIOR DUCT WRAP FIBERGLASS INSULATION. SEAL ALL DUCT JOINTS AND INSULATION JOINTS AIRTIGHT.

ALL ROUND BRANCH DUCTS SHALL BE GALVANIZED SHEET METAL WITH SAME INSULATION AS ABOVE. FLEXIBLE DUCTS OF NO MORE THAN 6 FEET MAY BE USED FOR DEVICE CONNECTIONS. ALL BRANCH DUCTS MUST HAVE STARTING COLLARS WITH INTEGRAL BALANCING DAMPERS.

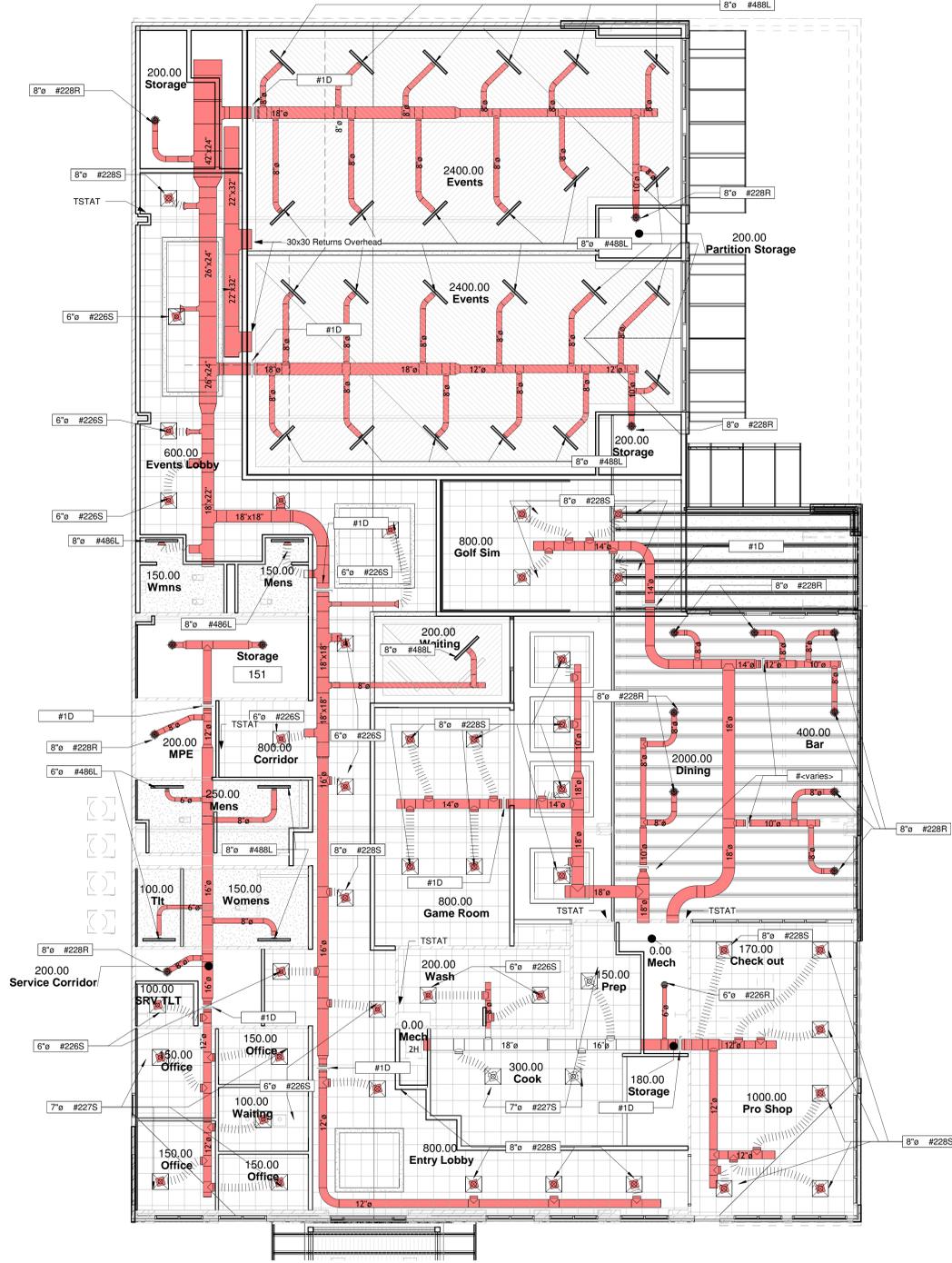
SUPPORT ALL DUCT ACCORDING TO THE INTERNATIONAL MECHANICAL CODE AND SMACNA.

C. EQUIPMENT INSTALLATION

SAFE-OFF AIRTIGHT AROUND ALL COILS, SOUND TRAPS, FILTERS, ETC. WITH 16 GAGE GALVANIZED SHEET METAL SET IN NON-HARDENING FIRE RETARDANT MASTIC.



① LVL 1 - HVAC Equipment
1/8" = 1'-0"



② HVAC Ducting
1/8" = 1'-0"

General HVAC Notes

1. Drain condensate to sewer.
2. All round ducting to be snap lock galvanized metal.
3. Provide return plenum under equipment so that return grill can be installed at wall where indicated. Plenum shall be built out of plywood construction and fully sealed from wall cavities.
4. Duct sizing noted on plans.
5. Seal all hidden ducting with duct seal mastic.
6. Exposed round duct shall be spiral double walled/insulated ducting. Provide cable hangers.
7. Provide strapping to secure ducting at all hidden ducting.
8. Provide insulated duct register boots at all registers.

Mechanical Equipment Schedule

Mark	Type	MIN SEER	MIN BTUs	AFUE	Power Requirements	Manufacturer	Model	Comments	#
1H	2 Stage Furnace	-	80,000	96%	115 V. 1 Phase 60 Hz	Goodman	GCVC961005CN or Equal		1H
2H	2 Stage Furnace	-	80,000	96%	115 V. 1 Phase 60 Hz	Goodman	GCVC961005CN or Equal		2H
3H	2 Stage Furnace	-	80,000	96%	115 V. 1 Phase 60 Hz	Goodman	GCVC961005CN or Equal		3H
4H	2 Stage Furnace	-	80,000	96%	115 V. 1 Phase 60 Hz	Goodman	GCVC961005CN or Equal		4H
1C	5 Ton Condenser	14	-	-	208/230v 1 Phase 60Hz	Goodman	G SXN406010 or Equal	Include standard Evap Coil	1C
2C	5 Ton Condenser	14	-	-	208/230v 1 Phase 60Hz	Goodman	G SXN406010 or Equal	Include standard Evap Coil	2C
3C	5 Ton Condenser	14	-	-	208/230v 1 Phase 60Hz	Goodman	G SXN406010 or Equal	Include standard Evap Coil	3C
4C	5 Ton Condenser	14	-	-	208/230v 1 Phase 60Hz	Goodman	G SXN406010 or Equal	Include standard Evap Coil	4C
14	20 Ton Package Unit with Economizer	-	400,000	-	460 V. 3 Phase 60 Hz	By Mech Sub	By Mech Sub	Ground Mounted with Makeup Air	14

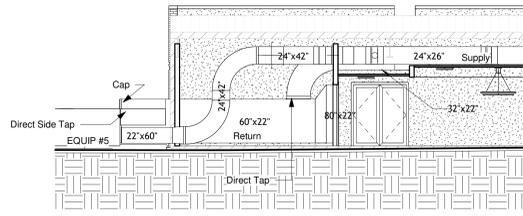
Air Terminal Schedule

Mark	Description	Fitting Size	Count	Type	Type Comments	#
226R	Duct Mounted Round Diffuser	6"	1	10" Face 6" Neck		226R
226W	Duct Mounted Round Diffuser	8"	1	12" Face 8" Neck		226W
226X	Duct Mounted Round Diffuser	8"	1	12" Face 8" Neck		226X
228R	Duct Mounted Round Diffuser	8"	13	12" Face 8" Neck		228R
226S	Lay In Grid Ceiling 24 Square Diffuser	6"	14	Standard 6"		226S
227S	Lay In Grid Ceiling 24 Square Diffuser	7"	7	Standard 7"		227S
228S	Lay In Grid Ceiling 24 Square Diffuser	8"	24	Standard 8"		228S
486L	Linear Slot Diffuser	<varies>	4	<varies>		486L
488L	Linear Slot Diffuser	8"	27	48" Linear Diffuser with 8" Fitting		488L

Construction Documents

Revision	Rev Date
DD	7/26/24

HVAC Layout



1 HVAC Building Exit
1/8" = 1'-0"

HVAC Zone Schedule

Number	Name	HVAC Zone	Area	Nominal Ceiling Height (ft)	Air Exchange	CFM	Comments	#
151	Storage		217 SF					151
1: 1								
140	Waiting	1	90 SF	9	6	100		140
141	Office	1	83 SF	9	6	150		141
142	Office	1	78 SF	9	6	150		142
143	Office	1	109 SF	9	6	150		143
144	Office	1	113 SF	9	6	150		144
145	Service Corridor	1	107 SF	15	6	200		145
146	SRV TLT	1	37 SF	8	6	100		146
147	Womens	1	149 SF	9	6	150		147
148	Tit	1	52 SF	9	6	100		148
149	Mens	1	179 SF	9	6	250		149
150	MPE	1	96 SF	15	6	200		150
152	Wmns	1	81 SF	9	6	150		152
153	Mens	1	71 SF	9	6	150		153
1: 13								
110	Pro Shop	2	643 SF	10	6	1000		110
111	Check out	2	102 SF	10	6	170		111
112	Storage	2	70 SF	15	2	180		112
125	Prep	2	100 SF	9	8	150		125
126	Mech	2	32 SF	15	0	0		126
127	Cooler	2	89 SF	8	0	0		127
128	Cook	2	349 SF	9	8	300		128
129	Wash	2	206 SF	9	8	200		129
130	Mech	2	24 SF	15	0	0		130
2: 9								
120	Dining	3.5	1409 SF	14	10	2000		120
121	Bar	3.5	160 SF	14	10	400		121
122	Golf Sim	3.5	487 SF	11	8	800		122
124	Game Room	3.5	505 SF	11	8	800		124
3.5: 4								
101	Entry Lobby	5	458 SF	9	6	800		101
102	Corridor	5	844 SF	9	6	800		102
103	Events Lobby	5	668 SF	9	6	600		103
123	Waiting	5	192 SF	12	6	200		123
160	Events	5	1420 SF	15	8	2400		160
161	Events	5	1447 SF	15	8	2400		161
162	Storage	5	77 SF	15	2	200		162
163	Partition Storage	5	65 SF	15	2	200		163
164	Storage	5	140 SF	15	2	200		164
5: 9								
						7800		

Duct Schedule

Family	Size	Length	Comments
Rectangular Duct	18"x18"	21' - 1 1/4"	
Rectangular Duct	18"x22"	9' - 11 1/8"	
Rectangular Duct	22"x32"	15' - 8"	
Rectangular Duct	22"x60"	21' - 11 1/2"	
Rectangular Duct	22"x80"	1' - 3 1/2"	
Rectangular Duct	26"x24"	20' - 6 1/2"	
Rectangular Duct	32"x22"	0' - 3 1/2"	
Rectangular Duct	42"x24"	6' - 3 7/8"	
Rectangular Duct	60"x22"	5' - 9"	
Round Duct	6"ø	23' - 5 7/8"	
Round Duct	8"ø	262' - 6 7/8"	
Round Duct	10"ø	40' - 4 1/2"	
Round Duct	12"ø	142' - 2 3/8"	
Round Duct	14"ø	37' - 8 7/8"	
Round Duct	16"ø	72' - 8 3/4"	
Round Duct	18"ø	103' - 6 1/4"	

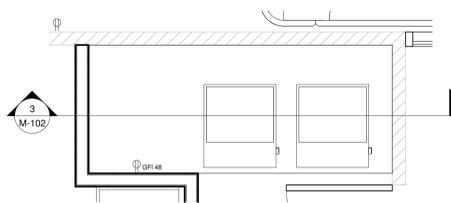
Duct Accessory Schedule

Family	Size	Count
Balancing Damper - Rectangular	10"x10"-10"x10"	2
Balancing Damper - Rectangular	12"x12"-12"x12"	4
Balancing Damper - Rectangular	14"x14"-14"x14"	2
Balancing Damper - Rectangular	16"x16"-16"x16"	1
Balancing Damper - Rectangular	18"x18"-18"x18"	3

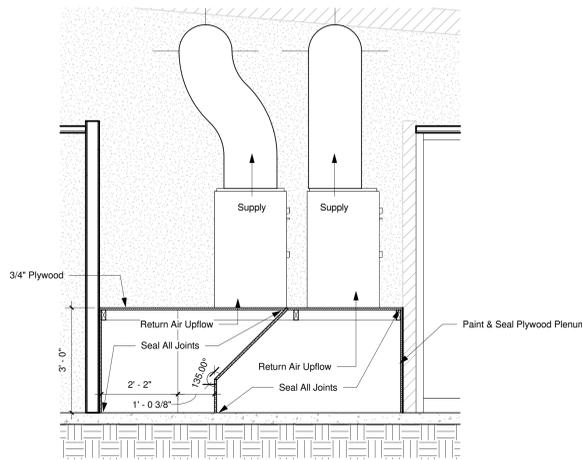
Duct Fitting Schedule

Family	Size	Count
Rectangular Elbow Eccentric Radius - DTL	18"x18"-18"x18"	1
Rectangular Elbow Eccentric Radius - DTL	24"x42"-24"x42"	2
Rectangular Elbow Eccentric Radius - DTL	32"x22"-32"x22"	1
Rectangular Elbow Eccentric Radius - DTL	60"x22"-60"x22"	1
Rectangular Endcap - DTL	22"x60"	1
Rectangular Tee - Beveled	18"x18"-18"x18"-6"x18"	1
Rectangular Tee - Beveled	18"x18"-18"x18"-8"x18"	1
Rectangular Tee - Beveled	18"x18"-18"x18"-12"x18"	4
Rectangular Tee - Beveled	18"x22"-18"x22"-6"x22"	1
Rectangular Tee - Beveled	18"x22"-18"x22"-12"x22"	2
Rectangular Tee - Beveled	18"x22"-18"x22"-18"x22"	1
Rectangular Tee - Beveled	26"x24"-26"x24"-6"x24"	1
Rectangular Tee - Beveled	26"x24"-26"x24"-8"x24"	1
Rectangular Tee - Beveled	26"x24"-26"x24"-18"x24"	1
Rectangular Tee - Beveled	30"x32"-22"x32"-22"x32"	2
Rectangular Tee - Beveled	42"x24"-42"x24"-8"x24"	1
Rectangular Tee - Beveled	42"x24"-42"x24"-18"x24"	1
Rectangular to Round Transition - Angle	6"x18"-6"ø	1
Rectangular to Round Transition - Angle	6"x22"-6"ø	1
Rectangular to Round Transition - Angle	6"x24"-6"ø	1
Rectangular to Round Transition - Angle	8"x18"-8"ø	1
Rectangular to Round Transition - Angle	8"x24"-8"ø	2
Rectangular to Round Transition - Angle	10"x10"-10"ø	4
Rectangular to Round Transition - Angle	12"x12"-6"ø	18
Rectangular to Round Transition - Angle	12"x12"-7"ø	7
Rectangular to Round Transition - Angle	12"x12"-8"ø	27
Rectangular to Round Transition - Angle	12"x12"-12"ø	45
Rectangular to Round Transition - Angle	14"x14"-14"ø	4
Rectangular to Round Transition - Angle	16"x16"-16"ø	2
Rectangular to Round Transition - Angle	18"x18"-16"ø	1
Rectangular to Round Transition - Angle	18"x18"-18"ø	4
Rectangular to Round Transition - Angle	18"x24"-18"ø	2
Rectangular Transition - Length	12"x18"-12"x12"	4
Rectangular Transition - Length	12"x22"-12"x12"	2
Rectangular Transition - Length	18"x22"-18"x18"	1
Rectangular Transition - Length	22"x80"-22"x60"	1
Rectangular Transition - Length	26"x24"-18"x22"	1
Rectangular Transition - Length	30"x32"-30"x30"	2
Rectangular Transition - Length	42"x24"-26"x24"	1
Rectangular Transition - Length	60"x22"-42"x24"	1
Round Elbow	6"ø-6"ø	2
Round Elbow	8"ø-8"ø	53
Round Elbow	12"ø-12"ø	1
Round Elbow	14"ø-14"ø	2
Round Elbow	18"ø-18"ø	2
Round Tee	8"ø-8"ø-8"ø	3
Round Tee	10"ø-10"ø-8"ø	6
Round Tee	12"ø-8"ø-8"ø	2
Round Tee	12"ø-10"ø-10"ø	2
Round Tee	12"ø-12"ø-8"ø	12
Round Tee	12"ø-12"ø-10"ø	2
Round Tee	12"ø-12"ø-12"ø	17
Round Tee	14"ø-14"ø-8"ø	1
Round Tee	14"ø-14"ø-12"ø	9
Round Tee	16"ø-16"ø-6"ø	3
Round Tee	16"ø-16"ø-8"ø	3
Round Tee	16"ø-16"ø-12"ø	8
Round Tee	18"ø-14"ø-14"ø	1
Round Tee	18"ø-18"ø-8"ø	12
Round Tee	18"ø-18"ø-10"ø	1
Round Tee	18"ø-18"ø-12"ø	2
Round Tee	18"ø-18"ø-14"ø	1
Round Tee	18"ø-18"ø-18"ø	2
Round Transition - Angle	10"ø-8"ø	3
Round Transition - Angle	12"ø-8"ø	2
Round Transition - Angle	12"ø-10"ø	1
Round Transition - Angle	14"ø-12"ø	1
Round Transition - Angle	16"ø-12"ø	4
Round Transition - Angle	18"ø-10"ø	2
Round Transition - Angle	18"ø-12"ø	2
Round Transition - Angle	18"ø-16"ø	1

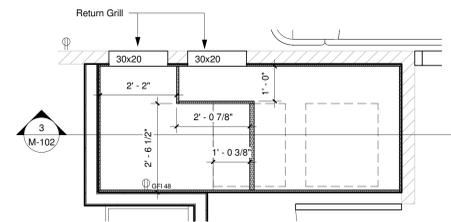
Duct & Fittings Schedules



2 HVAC Shared Restaurant Plenum Detail
1/2" = 1'-0"

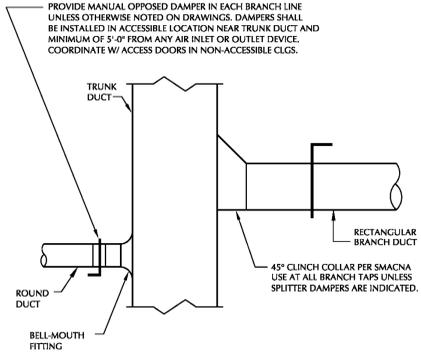


3 Section @ Mech Plenum
1/2" = 1'-0"

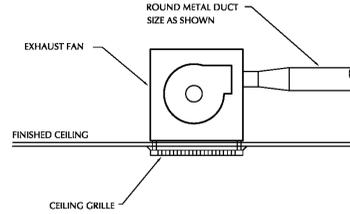


4 HVAC Shared Restaurant Plenum Detail 2
1/2" = 1'-0"

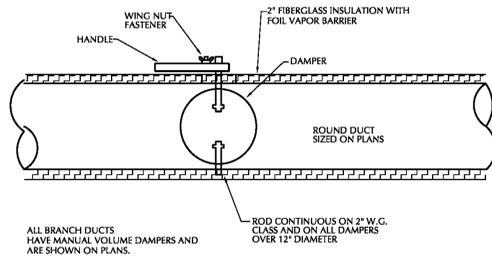
NOTE:
DAMPERS SHALL BE PROVIDED IN ALL BRANCH RUN-OUTS TO DIFFUSERS,
RA AND EXHAUST GRILLES, UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
LOCATE DAMPERS SO THEY ARE ACCESSIBLE FROM LAY-IN CEILING OR ACCESS DOORS.



BRANCH DUCT TAP DETAIL

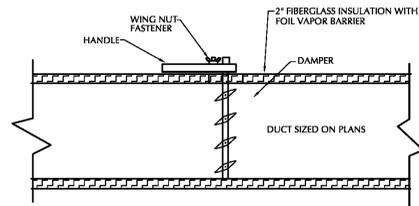


CEILING MOUNTED EXHAUST FAN



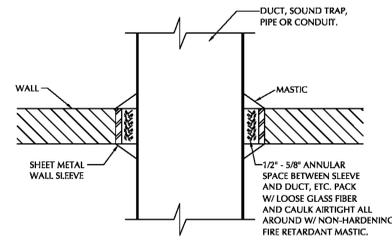
ALL BRANCH DUCTS
HAVE MANUAL VOLUME DAMPERS AND
ARE SHOWN ON PLANS.

ROUND DUCT MANUAL DAMPER



RECTANGULAR DUCT MANUAL DAMPER

NOTE: THIS DETAIL APPLICABLE AT MECHANICAL
ROOM WALL PENETRATIONS, SMOKE TIGHT WALLS, SOUND CONTROL
PARTITIONS AND WHERE OTHERWISE INDICATED.



WALL PENETRATION DETAIL

Electrical Specifications

SECTION 16000 ELECTRICAL

16001 SCOPE OF WORK

- The work described under this section of the specifications includes furnishing all material, labor, and equipment, except as furnished under other sections of the specification, to install all electrical work as shown in the drawings and as specified and referred to herein.
- The contractor shall furnish all labor, materials, and equipment, pay all fees and cost, shall obtain all permits, approvals, and inspections to provide a complete electrical installation.
- All electrical equipment and the resultant installation of such equipment, devices, etc., shall be in strict compliance with the National Electric Code, NFPA 70, all applicable local, state, and federal codes, and the Standard for Electrical Safety in the Workplace, NFPA 70E.
- The contractor shall take responsibility for field verification of all dimensions and locations of existing, relocated, and new equipment, and shall be responsible for coordination with the work of other trades necessary to the project.
- These drawings are intended to outline the scope of work required to provide a complete and operable project conclusion. All miscellaneous components, parts, fasteners, splices, and other incidental items necessary to provide a completed project shall be provided whether or not specifically noted.
- All connections to existing power, and all testing shall be done with the assistance and guidance of the construction manager and the local power company.
- Contractor shall notify the construction manager immediately of any conflicts arising from discovered conditions at any phase of the project.
- At any location where excavation or associated work causes damage to existing underground utilities, the contractor shall restore the damaged system to a like-new state.
- Contractor shall verify all final locations of electrical equipment prior to installation with the construction manager.
- Locations of other equipment specified by other trades or provided by the owner are approximate. Coordinate exact location in the field prior to roughing in and routing conduit.
- See architectural reflected ceiling plans and elevations for exact locations for light fixtures in lay-in or drywall ceilings, and on interior or exterior walls.
- Conduits are not necessarily shown on plan drawings for the sake of clarity. Provide conduits between devices and to panels per requirements listed in Division 16 specifications. Indicate the exact routing of conduit on plan drawings as part of as-built documentation to be submitted after final completion.
- The general contractor shall field-verify all existing conditions prior to beginning any work and shall immediately notify the architect and engineer of any discrepancies. Failure to do so indicates that the contractor accepts the conditions as they exist and shall perform the work required as shown and specified.
- The electrical contractor shall review mechanical drawings and specifications to obtain locations, wiring requirements, control wiring schemes, interlock wiring, and thermostat locations.
- Equipment shall be mounted on materials suitable for the environment in which it is installed with the appropriate NEMA enclosure rating.
- Working clearances for electrical equipment shall be in compliance with Article 110 and 408.
- The dedicated electrical space extending from the floor to the structural ceiling with the width and depth of the panelboard or switchboard must be clear of all piping, ducts, equipment foreign to the electrical or architectural appearances in accordance with NEC 110 & 408. Coordinate installation of electrical equipment with other trades prior to roughing in equipment.
- The electrical contractor shall obtain and review the mechanical and special equipment submittals prior to submitting the electrical submittals. Any electrical equipment, conduit, and wire size changes resulting from this review shall also be submitted for approval.

1. Examination of the Premises

- The contractor will be held to have examined the premises and satisfied himself as to the existing conditions under which he will be obligated to operate in performing part of the work or that which will in any manner affect the work under his contract.
- Prior to ordering any material or doing any work, verify the dimensions at the site; correctness of dimensions will be this contractor's responsibility. No extra charges or compensation will be allowed for differences between actual drawings and dimensions indicated on the drawings. Immediately report differences to the architect and do not proceed with work until the architect renders his decision.

2. Regulations, Permits, and Inspections

- Regulations: Comply with all applicable codes, rules, and regulations. All materials, equipment, and work must comply with the latest adopted code and the applicable municipal and life safety codes.
- Permits: Obtain and pay for all permits, fees, and licenses required to perform work described herein.
- Inspections: All work must be inspected and approved by local authorities. Prior to final approval, furnish the architect with certificates of inspection and approvals by the local authorities.

3. Work Listed Elsewhere

- Furnish and install motor controls unless in motor control center. Furnish hole cutting in pre-cast structural concrete.

4. Existing Services and Remodel Area

- Maintain all services, power, sound, telephone, etc., to existing buildings or areas. Interruptions of services required for "cut-over" or connections of new cables, etc., shall be done at the convenience of the tenant and be approved in writing by the tenant prior to the interruption.

5. Temporary Power

- Provide temporary power as required by the general contractor. This service shall be maintained throughout the entire project as the work progresses.
- Provide outlets at convenient points and in sufficient
- DEPTH OF NOT LESS THAN 18 INCHES BELOW FINISHED GRADE. CONDUIT SHALL BE SCHEDULE 40 PVC.

6. SUPPORT OF CONDUIT:

- All conduit shall be properly supported and securely fastened in place.
- Conduit run horizontally along walls or ceilings shall be supported by straps or hangers not more than 10 feet apart.
- All conduit runs shall be installed in a straight and workmanlike manner.

7. 9. CONDUIT BODIES:

- Conduit bodies shall be used where necessary for access to conductors in conduit runs and shall be installed as directed by the engineer.

8. 10. CONDUIT SEALS:

- All conduit penetrations through fire-rated walls or floors shall be sealed to maintain the fire rating of the assembly.

9. CONDUIT BENDING:

- All conduit bending shall be done accurately to ensure proper alignment of conduit runs and to avoid damage to conductors.

10. CONDUIT INSTALLATION IN SLAB:

- Conduit installed in the slab shall be elevated a minimum of 2 inches above grade and shall be securely supported to ensure proper positioning during concrete placement.

11. CONDUIT INSTALLATION IN EXPOSED LOCATIONS:

- Conduit installed in exposed locations, such as along walls or ceilings, shall be installed with proper offsets and alignments.

12. EXPANSION FITTINGS:

- Expansion fittings shall be installed where required to accommodate thermal expansion and contraction of conduit systems.

13. 15. CONDUIT IDENTIFICATION:

- All conduit runs shall be properly identified with legible markings indicating circuit number and contents.

14. CAPPING AND SEALING:

- All open ends of conduit shall be capped or sealed to prevent the entry of moisture, dirt, or debris.

15. Electrical Installation Guidelines:

16. Underground Conduits:

- Conduits shall be
- A minimum of 24" below grade or 18" below grade encased in a 3" thick concrete envelopment.
- Trenching, backfilling, and concrete work for electrical installations shall comply with local regulations.

17. Conduit Installation:

- The contractor is responsible for providing sleeves and chases where conduits pass through floors or walls, sealing openings, and installing escutcheon plates for exposed conduits.
- All empty conduits shall be equipped with a pull wire.

18. Conduit Fittings:

- Rigid conduit fittings shall include double locknuts and bushings. For EMT or flexible conduits, fittings shall have insulated threads.

19. Wiring Devices and Boxes:

- Receptacles requiring surface weatherproof mounting shall be installed in an FS conduit box.
- Outlet boxes in exposed or wet locations shall be cast steel, while concealed locations shall use sheet steel boxes.
- Boxes shall be securely attached to the structure, independent of conduit support.

20. Hangers/Inserts:

- Unistrut, hangers, and supports required for the electrical work shall be furnished and installed.

21. Concrete and Excavation:

- The contractor shall provide all concrete, excavation, fill, backfill, and steel required unless otherwise noted in the specifications.

22. Final Location of Features:

- The final location of switches, fixtures, panels, etc., shall be determined in the field, subject to the architect's approval.

23. Painting and Cleaning:

- Exposed electrical equipment, conduit, and panels shall be painted as specified. The premises shall be kept clean throughout the project, and all debris shall be removed upon completion.

24. Acceptable Manufacturers:

- A list of manufacturers whose specification-grade equipment is acceptable is provided. Substitutions require approval from the architect.

25. Shop Drawings:

- Six sets of shop drawings for various equipment, including service entrance sections, switchboards, panelboards, lighting fixtures, transformers, and generators, shall be submitted to the architect for approval.

26. Final Inspection and Test:

- The contractor shall furnish all meters, cables, connections, and apparatus for the final inspection and test.

27. Electrical Testing and Safety:

28. Grounding:

- All EMT, flexible conduit, MC cable, or PVC conduit shall be provided with an insulated green ground wire.

30. Communication Systems:

31. Telephone:

- Provide all necessary material and labor required by the telephone company for delivering service to the telephone terminal board.
- All conduit, trenching, and backfill shall be provided by the electrical contractor in accordance with the telephone company standards.

32. Data:

- All data outlets are to have wall plates to match the device plate.

33. Guarantee:

- Guarantee all material, equipment, and workmanship for one year from the date of final acceptance. Replace without charge any material or equipment found defective during this period.

34. General Electrical Notes:

35. Lighting:

- Verify lamp type, color, number of lamps per fixture, lens type, and voltage before ordering new fixtures to match existing.

36. Emergency Lighting:

- Verify ceiling or wall mounting for emergency exit signs.

37. Power:

- Outlets on opposite sides of fire-rated walls shall be separated by a minimum horizontal distance of 24".

38. FINAL ACCEPTANCE:

- UPON FINAL INSPECTION, DEMONSTRATE TO THE ENGINEER THAT ALL LIGHTING, OUTLETS, SWITCHES, EMERGENCY LIGHTING, AND ALL OTHER EQUIPMENT IS PROPERLY INSTALLED AND OPERATING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- UPON COMPLETION OF THE INSTALLATION, ALL SWITCHPLATES, COVERPLATES, AND FIXTURES SHALL BE CLEANED OF ALL DIRT, PAINT, ETC.

- IN ADDITION TO OTHER CODE REQUIRED TESTS, TEST THE CONTINUITY OF THE GROUNDING CONDUCTOR SYSTEM AND VERIFY THAT GROUNDING CONDUCTORS ARE SECURELY CONNECTED. ALL EQUIPMENT SHALL BE GROUNDED, AND THE SYSTEM SHALL MEET NEC REQUIREMENTS.

- UPON COMPLETION OF THE WORK, SUBMIT TO THE ENGINEER FOR HIS APPROVAL, THE MANUFACTURER'S CERTIFICATE THAT THE INSTALLATION HAS BEEN MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

- AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE WORK, SHOWING ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS.

40. AS-BUILT DRAWINGS:

- UPON COMPLETION OF THE PROJECT, PROVIDE THE ARCHITECT AND ENGINEER WITH THREE (3) COPIES OF AS-BUILT DRAWINGS. THE AS-BUILT DRAWINGS SHALL INDICATE ANY CHANGES MADE DURING CONSTRUCTION AND SHALL BE CLEARLY MARKED TO SHOW SUCH CHANGES.

41. FINAL CONNECTION:

- ALL FINAL CONNECTIONS TO EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE MADE IN THE PRESENCE OF THE ENGINEER.

42. OPERATION AND MAINTENANCE MANUALS:

- PROVIDE OPERATION AND MAINTENANCE MANUALS FOR ALL ELECTRICAL EQUIPMENT INSTALLED UNDER THIS SECTION. MANUALS SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE WORK.

43. INSPECTION:

- ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE ENGINEER AT ALL TIMES DURING THE PROGRESS OF THE WORK.

44. SUBMITTALS:

- ALL SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

45. CHANGES AND ALTERATIONS:

- NO CHANGES OR ALTERATIONS TO THE CONTRACT WORK WILL BE MADE EXCEPT UPON WRITTEN ORDER OF THE ENGINEER.

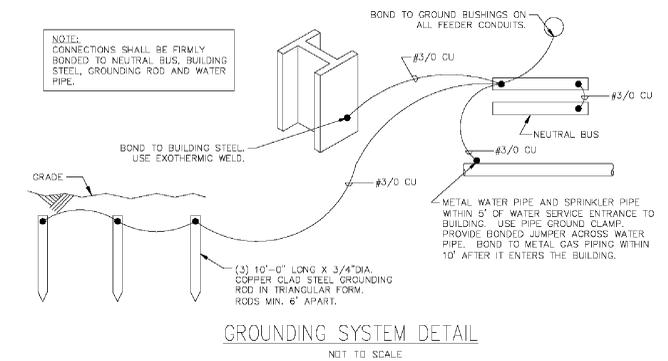
46. CODE COMPLIANCE:

- ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL CODES AND REGULATIONS.

47. WARRANTY:

- PROVIDE A ONE-YEAR WARRANTY ON ALL MATERIALS AND WORKMANSHIP. REPLACE, REPAIR, OR ADJUST ANY DEFECTIVE WORK AT NO COST TO THE OWNER.

New Grounding @ Existing Panels



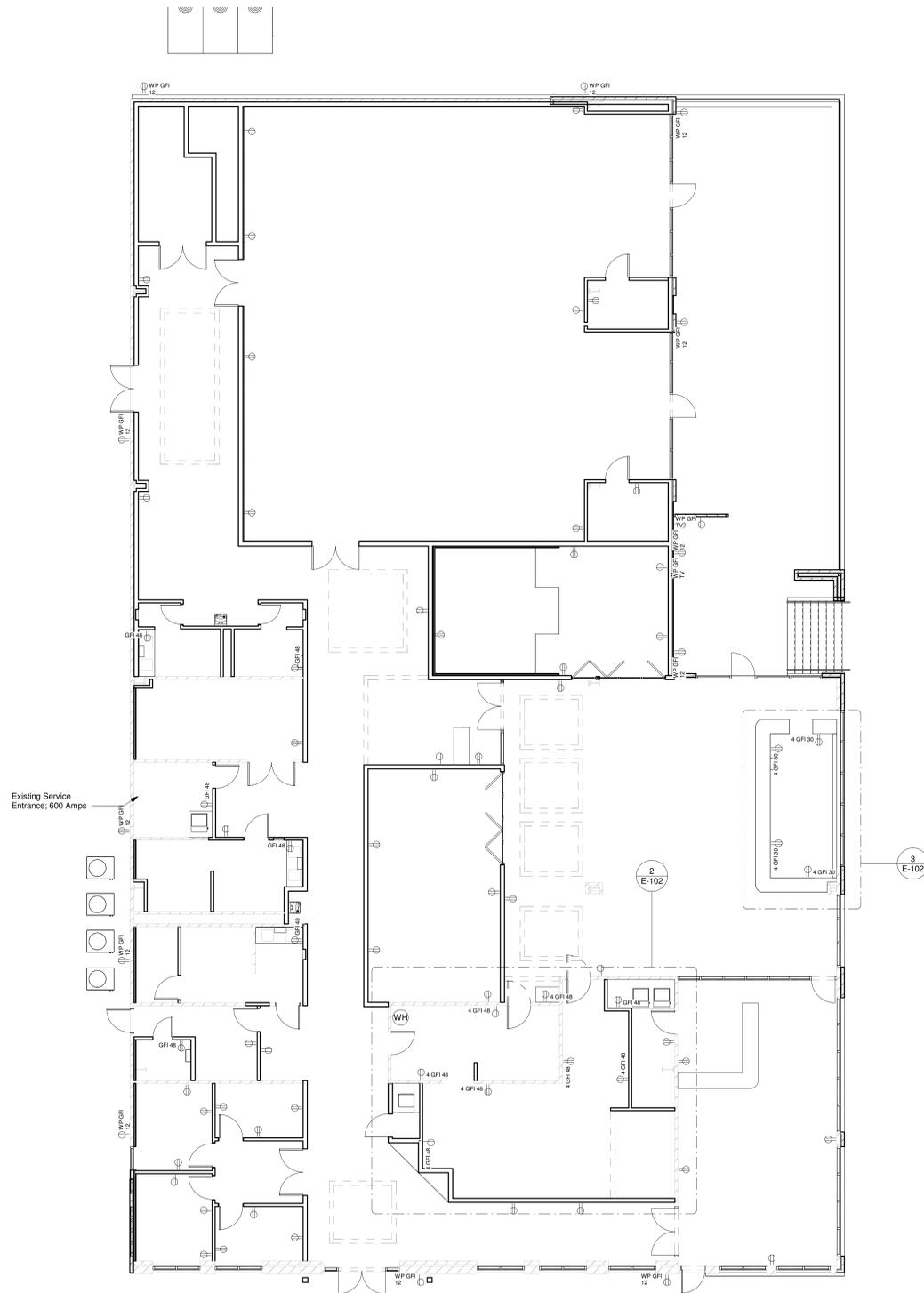
Construction Documents

Revision Rev Date

Reference

100

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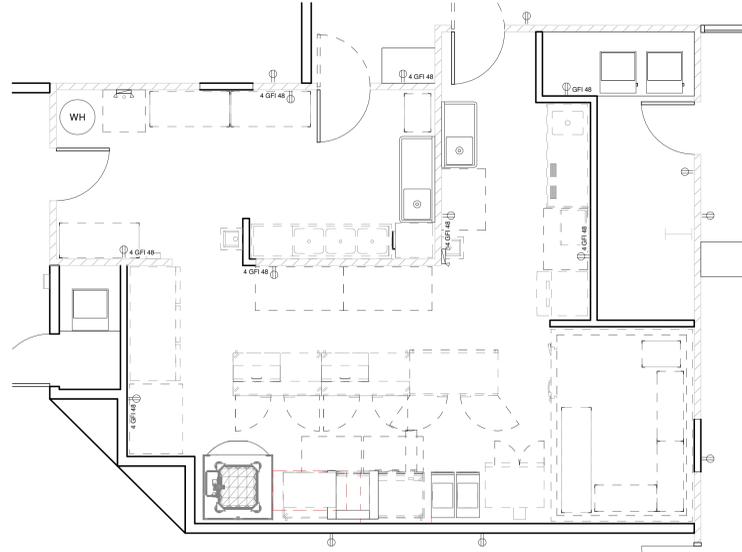
1 LVL 1 - Power Plan
1/8" = 1'-0"

Electrical Fixture Schedule

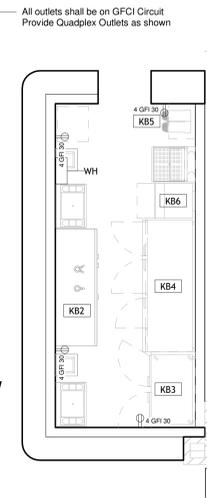
Symbol	Label	Type	Comments	Count
⊕		Duplex @ 12"	Standard Outlet Mounted @ 12" to Center	50
⊕	GFI 48	Duplex @ 48"	Standard Outlet Mounted @ 48" to Center	7
⊕	4 GFI 30	Quadplex @ 30"	Quadplex Outlet Mounted @ 30" to Center	4
⊕	4 GFI 48	Quadplex @ 48"	Quadplex Outlet Mounted @ 48" to Center	7
⊕	WP GFI 12	WP Duplex @ 12"	Standard Outlet Mounted @ 12" to Center - Make Waterproof	12
⊕	WP GFI TV	WP Duplex @ TV Height	Standard Outlet Mounted @ center of TV (coordinate with owner) - Make Waterproof	2

*** GFI indicates either a circuit breaker or a fixture with a ground fault current protection***

*** All circuits for general use shall be 20 amp circuits. Circuits shall be organized so that individual rooms are all on the same circuits. Multiple rooms shall not share a circuit.***



2 LVL 1 - Power Plan - Kitchen
1/4" = 1'-0"



3 LVL 1 - Power Plan - Bar
1/4" = 1'-0"

General Notes

- Supply disconnect box and power for all exterior hvac units. install all electrical wire between interior and exterior units. Electrical panelboard/switchboard may not be located behind a door that will open or close over it or in a room that may be locked and must have 36"x30" clear working space and 6'-6" headroom per nec-110
- Provide power to all mechanical equipment. coordinate req. per manf. specification.
- GFC protection must be provided for any receptacle outlet in the following: a bathroom, any counter top kitchen/laundry, garage outlets minimum 18" above finished floor height, outside front and rear outlets must also have a waterproof coverplate.
- Contractor shall coordinate receptacle requirements for all plugs and equipment.
- Contractor shall provide power to all venting required in bathrooms and kitchens and any/all booster fans that may be required for dryers, range hoods, and bathroom vents.
- All equipment and receptacles shall be mounted flush unless otherwise noted.
- Smoke detectors shall be provided at every kitchen and bedroom. these detectors shall be hard wired.
- Where proximity allows, gang switches and outlets.
- All wiring shall be in NEMA rated conduit.
- All lighting shall be switched as shown. If not shown, lighting shall be installed with emergency battery backups.
- Verify existing load on all existing circuits prior to connecting any additional load. If sufficient existing power is not available. Extend a new circuit to the nearest appropriate panel.
- Receptacles shown as gfi may be non gfi type receptacles if fed from a 20'1 gfi breaker or the load side of a gfi receptacle in the same room, on the same circuit and rated 20 amp feed-thru capacity. Cover plates shall be clearly marked gfi.
- All Amperages and Voltage requirements shall be confirmed with owner furnished equipment. Values are based on the received quote from FS-1 Concepts, LLC, dated 8/18/24. Amperages are minimum amperages and have not been sized for breaker usage. Coordinate new breakers with existing panels slot and availability. Panels should be balanced.
- Provide power to all items in the 4 schedules listed below. Outlets shown in plans are for general use and are not for use by scheduled items below.

Electrical Lighting

Mark	Type	Voltage	Amps	Count	#
LC36	Decorative Chandelier (Restaurant)	115	5	3	LC36
LC48	Decorative Chandelier	115	5	3	LC48
LD10	Lighted Liquor Display	115	15	1	LD10
LLD6	Drywall Recessed Linear Light - Wet Area	115	1	2	LLD6
LLG5	Grid Ceiling Fit Linear Light	115	1	34	LLG5
LLU4	Hanging Linear Utility Light	115	1	13	LLU4
LM80	Lighted Mirror	115	5	7	LM80
LP06	Simple Pendant General Lighting	115	2	36	LP06
LP12	Decorative Pendant	115	3	6	LP12
LPEB	Emergency Light with Battery Backup	115	1	24	LPEB
LRD6	Grid Mounted Recessed Round Day Light	115	1	2	LRD6
LRE6	Exterior Rated & Sealed Recessed Round Warm Light	115	1	12	LRE6
LRV6	Dual Recessed Light with Exhaust Ventilation	115	3	10	LRV6
LRW6	Grid Mounted Recessed Round Warm Light	115	1	24	LRW6
LS22	2x2 LED Lay In Panel 30W	115	1	48	LS22
LW12	Decorative Sconce	115	2	2	LW12
LW24	Exterior Rated Sconce Light	115	3	2	LW24
Lighting					229

Electrical Kitchen

Type Mark	Type	Voltage	Amps	#	
K2	3 Door Upright Freezer	115	14	K2	
K3	Pizza Oven	115	13	K3	
K6	Chef Base 96 inch	115	5	K6	
K10	Gas Floor Fryer	115	11	K10	
K10	Gas Floor Fryer	115	11	K10	
K11	Gas Convection Oven	115	8	K11	
K12	Freezer Worktop	115	5	K12	
K13	Prep Table Sandwich and Salad	115	7	K13	
K13	Prep Table Sandwich and Salad	115	7	K13	
K14	Heat Lamp	115	7	K14	
K15	Exhaust Hood with Fire Suppression	115	13	K15	
K16	Walk In Cooler w/ Aluminum Floor	230	19	K16	
K19	Cube Style Ice Maker	230	11	K19	
K21	Microwave Oven	115	14	K21	
K25	Door Type Dishwasher	115	8	K25	
KB2	Draft Beer Cooler	115	3	KB2	
KB3	Refrigerated Cabinet 48inch	115	2	KB3	
KB4	Refrigerated Cabinet 93inch	115	3	KB4	
KB5	Frozen Drink Machine Double	115	8	KB5	
KB6	Undercounter Glasswash	230	34	KB6	
Kitchen					203

Electrical Mechanical

Type Mark	Mark	Type	Voltage	Amps	#
CC	1C	5 Ton Condenser	230	34	1C
CC	2C	5 Ton Condenser	230	34	2C
CC	3C	5 Ton Condenser	230	34	3C
CC	4C	5 Ton Condenser	230	34	4C
GF	1H	2 Stage Furnace	115	16	1H
GF	2H	2 Stage Furnace	115	16	2H
GF	3H	2 Stage Furnace	115	16	3H
GF	4H	2 Stage Furnace	115	16	4H
RP	14	20 Ton Package Unit with Economizer	460 (3PH)	100	14
Mechanical					300

Electrical Plumbing

Type Mark	Type	Voltage	Amps	#	
EDF	Electric Drinking Fountain w Bottle Filler	115	5	EDF	
EDF	Electric Drinking Fountain w Bottle Filler	115	5	EDF	
WH	ECO 11 Tankless Water Heater	230	33	WH	
WH	ECO 11 Tankless Water Heater	230	33	WH	
WH	ECO 11 Tankless Water Heater	230	33	WH	
WH	ECO 11 Tankless Water Heater	230	33	WH	
WH	ECO 11 Tankless Water Heater	230	33	WH	
WH	ECO 11 Tankless Water Heater	230	33	WH	
WHT	40 Gallon Tank Water Heater	230	20	WHT	
Plumbing					228