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# FASCIMILE TRANSMITTAL COVER SHEET

**DATE:** **September 29, 2026**

**TO:** **Doris Furr**

**FROM:** **Planholder**

**PROJECT:** **MOBILE AREA WATER AND SEWER SYSTEM**
**Low Head Pump Building Renovations**

**GMC PROJECT NO. AMOB230011**

**RE:** **ADDENDUM NO. 2 AND ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. 2**

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## ACKNOWLEDGEMENT OF RECEIPT:

**PLEASE PRINT RECIPIENT'S NAME, FIRM, AND DATE RECEIVED.**

**THEN FAX BACK TO (251) 460-4423 or EMAIL doris.furr@gmcnetwork.com**
**FOR OUR RECORDS AND TO ACKNOWLEDGE YOUR RECEIPT OF THIS ADDENDUM.**

_____
NAME *(PLEASE PRINT)*

_____
FIRM *(PLEASE PRINT)*

_____
DATE RECEIVED *(PLEASE PRINT)*

Pages to follow this page 35

**ADDENDUM NUMBER 2** **September 29, 2026**

**PROJECT: MAWSS RENOVATIONS TO THE LOW HEAD PUMP BUILDING**
**MOBILE AREA WATER AND SEWER SYSTEM**
**GMC PROJECT NO. AMOB230011**

**AD2-1 CLARIFICATIONS / RFI RESPONSES / ADDITIONS / ETC.:**

A. Bidders shall acknowledge receipt of the Addendum in writing, as provided on the Acknowledgment Receipt.

B. See attached revised drawing A0.01 Architectural Site Plan. Routing of sanitary sewer as well as fire lines and fire alarm system wiring has been updated to reflect changes to the site civil design.

C. See attached revised drawings A1.01 and A5.01 for 'floor addition' where 2nd Floor shall be extended to the new elevator shaft.

D. See attached revised drawings FP1.12, FP1.13, M1.12, M6.01, P0.01, P1.11, P1.12, P1.21, P1.22, and P9.01 as well as revised Sections 237416 & 237417 for various changes including, but not limited to, direction of fire protection, changes to plumbing fixtures, internal piping for process water, clarification to RTU's, picked up range hood, and general cleanup.

E. Prepare for new paint finish and install new paint finish at entire perimeter of existing fascia along roof line. Color shall match new metal finish color at the new generator building across the drive from the Low Head Pump Building.

F. Substitution request for aluminum conduit in lieu of rigid or imc is not approved. Provide and install what is called out in the specs. If a dissimilar metal condition is encountered during construction, we can evaluate it on a case-by-case basis.

G. See E/ONE Extreme WH484 Quad Pump Cutsheet attached. The attached grinder pump system shall be provided and installed in lieu of the duplex system. Float system shall be delegated design to meet the performance criteria for other float systems on MAWSS' campuses.

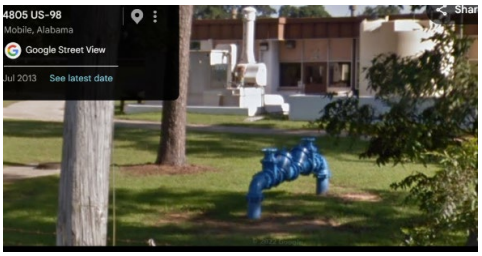
H. Existing Heater Unit Image on A0.11 states to remove existing mechanical equipment throughout the second floor. Please quantify what all this entails including equipment type, size, quantity, any other pertinent information.

**ANSWER: Existing Heater Unit on A0.11 is to be removed by GC. All other existing HVAC equipment remaining on the second floor is to be removed by GC in**

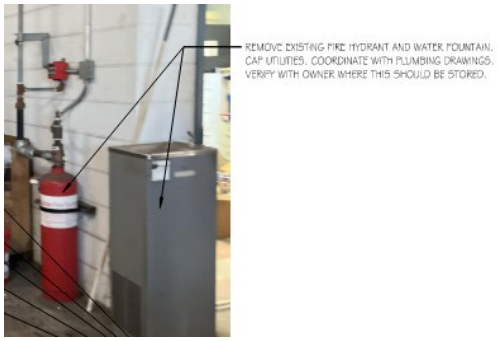
**accordance with the IFC documents. If not noted otherwise, we are not using nor re-using any HVAC components from the existing second floor. It should all be completely demolished, along with all associated duct work, accessories, controls and supports.**

I. Resinous flooring spec states a resinous flooring warranty is required to submit with the bid. Please advise if this is correct?
**ANSWER: No. A sample warranty letter is not required to be submitted with the bid nor will the bid be disqualified without it.**

J. On sheet E1.21 it mentions heat trace. But I don't see anything in specs for what exactly is needed and what is being heat traced.
**ANSWER: The project is to provide and install a dedicated 20-amp circuit to the location of this existing BFP for heat trace / strip heater TBD later.**




K. Special Hazard Suppression RFIs
   a. Please confirm the demo scope of existing suppression and any new install suppression scope for project. Drawings include picture below of one of the existing suppression cylinders. Is the intent to demo and store the pictured suppression system in the 2nd floor storage room along with the other system in the 2nd floor electrical control room?




**ANSWER: See attached revised Fire Protection drawings for updates.**

   b. Are there plans to protect any spaces with special hazard suppression on the 2nd floor? Maybe in the following rooms below? If yes, can a spec be provided for this scope. It is important to note FM-200 is being phased out, so If the volume of the new protected spaces vary substantially then you may not be able to reuse the same agent.
      i. PLC/MCC 215

ii. IT 207B
iii. Elec 216

**ANSWER: See attached revised Fire Protection drawings for updates.**

L. Fire Alarm RFIs

a. Fire alarm system spec in section 2.10 calls for a fire fighter telephone. Do we need to quote a fire fighter telephone? This is not a Highrise so it should not be required.
**ANSWER: The fire fighter telephone is not required.**

b. Fire alarm system spec in section 2.3 calls for an emergency responder booster. I can quote a test but if the building passes the test, then this system would also be unnecessary. So, I plan on not quoting a full install currently.
**ANSWER: Concur.**

c. Fire alarm system spec in section 2.4 calls for a stand-alone voice evac panel. Can you confirm this is required? Drawings show non voice notification. Also occupant load is only 39 so it should not trigger a voice system.
**ANSWER: A voice evac panel is not required.**

M. Note E9 states to repair existing exterior doors. Please qualify how these are to be repaired.
**ANSWER: E9 applies to the doors within the new wall panels at the west end of the existing building. They do not function properly. With the addition of new framing and new wall panels, these doors should function properly with adjustments by the door hardware provider under direction of the door hardware supplier's AHC.**

N. Would you consider pushing the bid date to Thursday @ 2:00 pm? Bidding at noon on a Monday is always rough on subs and we feel we always get better sub response when bids are due on a Thursday.
**ANSWER: No. The bids are opened at the MAWSS Board meeting. The board meeting is on Monday, Oct. 5**

O. Finish Schedule states steel casework is to go in the lab however, details on A7.02 show plastic laminate casework. Please advise.
**ANSWER: All casework in Lab 212 shall be steel casework (Kewaunee BOD) with epoxy kemresin per spec. Sections 12345 and 123553. All other casework in the facility shall be plam per details on A7.02.**

P. Is the new driveway in this contract?
**ANSWER: No.**

Q. Please provide the location of construction parking and laydown area.
**ANSWER: TBD at time of pre-construction meeting.**

R. Please provide dimensions, sections, foundation info for concrete ramp.
**ANSWER: Forthcoming via addendum 3.**

S. Please provide foundation info for the columns supporting the metal pan landing.
**ANSWER: Foundations shall be delegated design and shall be designed to support the metal stair and landing posts for all reactions generated by the delegated stair system, including gravity, lateral, wind (where applies), uplift (where applies) and overturning forces. Provide reinforced concrete footings/piers, reinforcing and anchorage as required. Foundation design calculations and drawings shall be prepared and sealed by a Professional Engineer licensed in the state of Alabama. The structural EOR will review the delegated design submittals and calcs. Soil bearing pressure shall be determined in accordance with IBS Section 1806.2 and Table 1806.2.**

T. Are the interior metal stairs and rails to be delegated design as well? See F8/A5.02
**ANSWER: Yes. All rails and stairs and landings and grated treads and closures at risers and grated landings and columns supporting landings (both interior and exterior) shall be delegated design in accordance with specifications. A 4" sphere shall not be able to pass through the stair nor railing components at any location along the stair path.**

U. A1.01 has a note that states GC to provide and install new exhaust fan louvers between frame lines 2-3 & between frame lines B & D. However, A4.01 note E6 states all louvers are to remain as is (the louvers between frame lines B&D are specifically called out as having this note). Please clarify and state the type of louver if replacements are needed as several types of louvers are listed in spec 233719.
**ANSWER: Coordinate with mechanical for mechanical devices (louvers, etc.) that penetrate the exterior wall. See M1.12 for mechanical devices (louvers, etc.) locations. The note on A1.01 is specifically referring to new mechanical devices (louvers) and direct the viewer to coordinate with mechanical. Architect will select color from mechanical suppliers submitted devices and colors available. *Note: A4.01 does not show the new mechanical devices (louvers).* The note on A4.01 refers to the existing louvers and windows that remain after demolition.**

V. The bidding instructions state that the bid documents, including the Bid Proposal, Bid Bond, Subcontracting Plan, SSO and Unpermitted Discharge Prevention Notification, and any addendum attachments, "shall be printed on yellow color paper and tabbed." Will you please clarify how this is to be tabbed and the shade of yellow, if a certain shade is required.
**ANSWER: How to Tab: Place a heavy-duty physical divider tab explicitly labeled "PROPOSAL" or "BID FORM" right before the yellow pricing sheets. Yellow sheets or yellow-colored divider tables are used to isolate the Bid Proposal Form itself. This allows the Board to quickly flip to and evaluate line-item pricing and totals during public openings. See example on MAWSS website:**
**https://www.mawss.com/bids/project-bid-proposal-documents/**

W. Detail D5/A6.01 requires the new transom framing to match the existing frame width. Please confirm whether the existing framing is 2-1/2" face × 5" depth and confirm the required aluminum finish/color.
**ANSWER: The new transom frame profile and glazing openings shall be field verified by the door / transom frame / transom glazing provider. Frame finish for this new transom shall match existing at this opening. New glazing for this new transom shall be 1-5/16" impact insulating glass consistent with the respective glass descriptions in Section 088100.**

X. Please confirm 9/16" laminated impact glass at the exterior FRP door lites and 1-5/16" impact insulating glass at the new transom, consistent with the respective glass descriptions in Section 088100. These conflict with the G1 designation on A6.01 and the 1-1/4" impact insulating door glass specified in Section 082550.
**ANSWER: See response 'U' above.**

Y. Door 220: The schedule lists an FRP door but notes reinstalling the existing exterior door and adding a transom. Please confirm whether the existing door and frame are to be reused and whether replacement door glass is required.
**ANSWER: This is a new FRP door from a prior project. Reuse existing door and frame. Provide and install new transom window.**

Z. According to the asbestos report, asbestos was found on the Main Building in 2022. Are we to assume the same material is also on the roof of the Maintenance/Storage Building? If so, the report states to remove these materials if demolition activities are planned and the materials will be disturbed. Since we are cutting into the roof to install roof top HVAC supports, vents, etc. and re-flashing these areas, is an entire re-roof required?
**ANSWER: No, do not assume the same material is also on the roof of the building. No, an entire re-roof is not required.**

AA. Confirm abatement is required for the window removal due to caulking and elevator removal due to lead-paint.
**ANSWER: Abatement is required for removal of lead-paint. The window caulk is to be tested at time of lead-paint abatement. If needed, owner allowance will be used to abate the caulk.**

**AD2-2 ATTACHMENTS:**

A. Revised drawing A0.01 (*Addendum #2*).
B. Revised drawing A1.01 (*Addendum #2*).
C. Revised drawing A5.11 (*Addendum #2*).
D. Revised drawing FP1.12 (*Addendum #2*).
E. Revised drawing FP1.13 (*Addendum #2*).

F. Revised drawing M1.12 (*Addendum #2*).
G. Revised drawing M6.01 (*Addendum #2*).
H. Revised drawing P0.01 (*Addendum #2*).
I. Revised drawing P1.11 (*Addendum #2*).
J. Revised drawing P1.12 (*Addendum #2*).
K. Revised drawing P1.21 (*Addendum #2*).
L. Revised drawing P1.22 (*Addendum #2*).
M. Revised drawing P9.01 (*Addendum #2*).
N. Revised Section 237416 (*Addendum #2*).
O. Revised Section 237417 (*Addendum #2*).
P. E/ONE Extreme, WH484 Quad Pump Cutsheet.

**AD2-3 ISSUED SPECIFICATIONS:**

A. Section 237416 PACKAGED ROOFTOP AIR CONDITIONING UNITS to be replaced in its entirety with attached Revised 237416 (*Addendum #2*).
B. Section 237417 PACKAGED 100% OUTSIDE AIR CONDITIONING UNITS to be replaced in its entirety with attached Revised Section 237417 (*Addendum #2*).

**AD2-4 ISSUED DRAWINGS:**

A. A0.01 OVERALL ARCHITECTURAL SITE PLAN to be replaced in its entirety with attached Revised A1.01 (*Addendum #2*).
B. A1.01 SECOND FLOOR - FLOOR PLAN to be replaced in its entirety with attached Revised drawing A1.01 (*Addendum #2*).
C. A5.11 WALL SECTIONS & MISC. DETAILS to be replaced in its entirety with attached Revised drawing A5.11 (*Addendum #2*).
D. FP1.12 LOW HEAD LVL 2 FLOOR PLAN - FIRE PROTECTION to be replaced in its entirety with attached Revised FP1.12 (*Addendum #2*).
E. FP1.13 LOW HEAD SECTION VIEWS - FIRE PROTECTION to be replaced in its entirety with attached Revised FP1.13 (*Addendum #2*).
F. M1.12 LOW HEAD LVL 2 FLOOR PLAN - HVAC DUCTWORK to be replaced in its entirety with attached Revised M1.12 (*Addendum #2*).
G. M6.01 SCHEDULES to be replaced in its entirety with attached Revised M6.01 (*Addendum #2*).
H. P0.01 LEGENDS, NOTES & ABBREVIATIONS to be replaced in its entirety with attached Revised P0.01 (*Addendum #2*).
I. P1.11 LOW HEAD LVL 1 FLOOR PLAN - WASTE AND VENT to be replaced in its entirety with attached Revised P1.11 (*Addendum #2*).
J. P1.12 LOW HEAD LVL 2 FLOOR PLAN - WASTE AND VENT to be replaced in its entirety with attached Revised P1.12 (*Addendum #2*).

K. P1.21 LOW HEAD LVL 1 FLOOR PLAN - DOMESTIC WATER to be replaced in its entirety with attached Revised P1.21 (*Addendum #2*).

L. P1.22 LOW HEAD LVL 2 FLOOR PLAN - DOMESTIC WATER to be replaced in its entirety with attached Revised P1.22 (*Addendum #2*).

M. P9.01 RISER DIAGRAM to be replace in its entirety with attached Revised P9.01 (*Addendum #2*).

**END OF ADDENDUM**

*PREPARED BY*

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**SECTION 23 7416**

**PACKAGED ROOFTOP AIR CONDITIONING UNITS**

PART 1 - GENERAL

1.1 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to this section.

B. Division 23 Common Work Results for HVAC sections apply to work of this section.

C. Extent of packaged rooftop air conditioning unit work is indicated by drawings and schedules, and requirements of this section.

D. Refer to other Division 23 sections for ductwork and testing, adjusting, and balancing of packaged rooftop air conditioning units (not work of this section).

1.2 Quality Assurance:

A. Test and rate packaged AC units in accordance with AHRI Standard 210 and 360 as applicable, and provide certified rating seal. Sound test and rate units in accordance with AHRI Standard 270 and AHRI Standard 370.

B. Construct refrigeration system in accordance with ASHRAE 15 (ANSI B 9.1) "Safety Code for Mechanical Refrigeration".

C. Provide units with an EER that meets the International Energy Conservation Code, ASHRAE Standard 90.1 and the schedules on the Drawings.

D. Provide packaged units that are designed, manufactured, and tested in accordance with UL requirements.

1.3 Approval Submittals:

A. Product Data: Submit manufacturer's technical product data, including dimensions, ratings, electrical characteristics, weight, capacities, materials of construction, and installation instructions. Submit manufacturer's assembly-type drawings showing all piping and electrical connections and all mounting requirements. Show methods of fastening and assembly of components. Provide wiring diagrams.

1. Packaged rooftop air conditioning units
2. Vibration isolation

1.4 O&M Data Submittals: Submit manufacturer's maintenance data including parts lists. Include these data and a copy of approval submittals in O&M manual.

PART 2 - PRODUCTS

2.1 Acceptable Manufacturers: Subject to compliance with requirements provide units by: Addison, Aaon, Carrier, Daikin, Greenheck, Trane, York, or approved equal.

2.2 General:

A. Casings: Unit casing shall be constructed of zinc-coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested minimum 670 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit.

B. Insulation: All exposed vertical panels and top covers in the indoor air section shall be insulated with a 1/2" thick, 1 pound density foil-faced, fire-resistant, permanent, odorless, glass fiber material. The base of the unit shall be insulated with 1/2" thick, 1 pound density foil-faced, closed-cell material.

2.3 Fans: Mount fans and motors on a common base assembly and isolate from the unit with spring isolators. Dynamically balance all fans. Mount fan shaft on grease lubricated ball bearings. Provide open drip-proof motor with a minimum service factor of 1.15. Make all drive components easily accessible for maintenance. Motors shall be high efficiency type and meet ASHRAE 90.1 requirements.

2.4 Air Filters: Provide integral filter box within the unit with hinged access panels.

2.5 Condenser Section:

A. Condenser Fans and Drives: Fan shall be of rustproof construction: hot-dipped galvanized steel, stainless steel, or aluminum. Provide a close fretwork galvanized steel or non-ferrous fan and guard. Motors shall be the permanently lubricated type, resiliently mounted.

B. Condenser Coil: Construct of copper tubes and copper or aluminum fins, or provide microchannel condenser coils. Provide inlet guard to protect condenser fins.

C. Coil Coating: Provide seacoast or heresite coating on condenser coil similar to ElectroFin® E-Coat. Heat transfer coefficient loss shall be less than 1% after coating.

Minimum salt spray resistance per ASTM B117-97 / DIN 53167 shall be 6,000 hours after coating. Phenolic coatings or fin surface only coatings are not acceptable.

D. Compressors: Shall be scroll hermetic design with vibration isolation. Each compressor shall have separate refrigerant circuit. Motors shall be ball bearing, high starting torque, low starting current type for compressor service. Compressors shall not produce objectionable noise or vibration inside the building. Compressors shall have five (5) year warranty. Provide multiple and variable-speed compressor machines if scheduled.

2.6 Evaporator Section:

A. Evaporator Coil: Provide cooling coils constructed of copper tubes and copper or aluminum fins. Provide thermostatic expansion valve for each refrigerant circuit. Provide IAQ stainless steel drain pan sloped to drain completely.

B. Coil Coating: Provide seacoast or heresite coating on all coils similar to ElectroFin® E-Coat. Heat transfer coefficient loss shall be less than 1% after coating. Minimum salt spray resistance per ASTM B117-97 / DIN 53167 shall be 6,000 hours after coating. Phenolic coatings or fin surface only coatings are not acceptable.

2.7 Electric Heater Section:

A. Provide electric heating coils controlled by one or more magnetic contactors. Three phase coils shall be wired for balanced current in each wire, if possible. Furnish and install necessary overheating and air flow controls to meet the requirements of the National Electric Code. Provide built-in air flow switch and heater interlock relay.

B. Heaters shall be factory mounted and wired with all required fuses and contactors to provide single point connection.

2.8 Controls:

A. Safety Controls: Provide thermostatic temperature controls for compressor windings to protect against high temperatures. Provide high and low pressure cutouts and reset relays. Provide preventive coil frost protection compressor unloading and/or factory-installed hot gas bypass based on refrigerant circuit suction temperature to prevent coil frosting with a minimum energy usage for all VAV units. Provide phase failure and low voltage protection.

B. Static Pressure Control: Provide static pressure sensor to continuously monitor and control supply air duct pressure. Controls shall include sensors, tubing, controllers, and actuators.

C. Outdoor Air: Provide motorized outdoor air damper with weatherproof intake and

motorized return air damper. Modulate in sequence to maintain constant outdoor air volume regardless of fan speed or filter loading.

D. Fire Alarm Shutdown: Provide for shutdown of unit from fire alarm control panel provided by Division 26. Duct-mounted smoke detectors are provided by Division 26.

2.9 Building Management System:

A. Provide factory mounted automation system with microprocessor-based controls and interface to operate with the building management system. Communication link shall use a two wire twisted pair.

B. Control Functions: Include unit scheduling, occupied/unoccupied mode, start-up and coast-down modes, night setback, discharge air set point adjustment, timed override and alarm shutdown.

C. Diagnostic Functions: Include supply fan status, cooling circuit status, dirty filter alarm, freeze alarm, and fire alarm.

D. Provide capabilities for trend logs as well as "templated" reports and logs.

2.10 Basic Vibration Isolation: Provide vibration isolation products complying with Division 23 section "Vibration Isolation" and the following list:

A. Equipment Mountings: Type EM2.

PART 3 - EXECUTION

3.1 Installation: Install in accordance with producer's printed instructions. Anchor housing to vibration isolators and steel supports as shown on the drawings with cadmium plated bolts and hardware. Secure unit to withstand 125 mph wind velocity.

3.2 Cleaning: Clean tar and all other soil from housing exterior. Leave ready for Division 7, Caulking Work.

3.3 Electrical Wiring: Install electrical devices furnished by manufacturer but not specified to be factory-mounted. Furnish copy of manufacturer's wiring diagram submittal to electrical Installer. Verify that electrical wiring installation is in accordance with manufacturer's submittal and installation requirements of Division 26 sections. Do not

proceed with equipment start-up until wiring installation is acceptable to equipment installer.

3.4 Duct Connections: Refer to other Division 23 Sections. Provide ductwork, accessories, and flexible connections as indicated.

3.5 Brush out fins on all coils.

3.6 Condensate Drain: Pipe trapped copper or PVC condensate drain full size of unit outlet to roof drain. Refer to Division 23 section "HVAC Piping Insulation".

3.7 Coordinate connection to gas supply and verify proper gas pressure to unit.

3.8 Startup: Check entire assembly for correctness of installation, alignment, and control sequencing. Start all component parts in proper sequence. Make all adjustments required to ensure proper smooth quiet operation.

3.9 Construction Filters: Provide 1" thick filters in all units during construction. After construction (but prior to the test and balance being performed) install clean final filters.

**END OF SECTION**

**SECTION 23 7417**

**PACKAGED 100% OUTSIDE AIR CONDITIONING UNITS**

PART 1 - GENERAL

1.1 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to this section.

B. Division 23 Common Work Results for HVAC sections apply to work of this section.

C. Extent of packaged 100% outside air conditioning unit work is indicated by drawings and schedules, and requirements of this section.

D. Refer to other Division 23 sections for ductwork and testing, adjusting, and balancing of packaged 100% outside air conditioning units (not work of this section).

1.2 Quality Assurance:

A. Provide units tested by UL or ETL.

B. Test and rate units in accordance with the applicable AHRI standards and provide certified rating seal.

C. Provide units with system efficiency ratings that meet or exceed the International Energy Conservation Code, ASHRAE Standard 90.1, and schedules on the drawings.

D. Furnaces shall be tested and certified by AGA.

1.3 Approval Submittals:

A. Product Data: Submit manufacturer's technical product data, including dimensions, ratings, electrical characteristics, weight, capacities, materials of construction, and installation instructions. Submit manufacturer's assembly-type drawings showing all piping and electrical connections and all mounting requirements. Show methods of fastening and assembly of components. Provide wiring diagrams.

1. Packaged 100% outside air conditioning units.
2. Vibration isolation.

1.4 O&M Data Submittals: Submit manufacturer's maintenance data including parts list.

Include with a copy of approval submittals and wiring diagrams in O&M Manual.

PART 2 - PRODUCTS

2.1 Acceptable Manufacturers: Subject to compliance with requirements, provide packaged 100% outside air conditioning units by: Aaon, Addison, Daikin, Desert Aire, Trane, or approved equal.

2.2 General: Units shall be factory-assembled, wired and tested. All controls shall be factory-adjusted and preset to the design conditions.

2.3 Casing: Unit casing shall be constructed of zinc-coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested minimum 1,000 hours in a salt spray test in compliance with ASTM B117. Unit shall have a two-inch thick antimicrobial insulation, with all insulation edges either captured or sealed. The top cover shall be one-piece construction or, where seams exist, it shall be double-hemmed and gasket-sealed to enhance strength and water removal from unit top.

2.4 Curb: Provide 12" minimum height (above roofing surface), full perimeter, insulated, factory roof curb, 14 gauge zinc-coated steel with supply and return air gasketed openings. Manufacture in accordance with the National Roofing Contractor's Association guidelines.

2.5 Condenser Section:

A. Condenser Fans and Drives: Fans shall be of rustproof construction: hot-dipped galvanized steel, stainless steel, aluminum, or reinforced polypropylene. Provide a close fretwork galvanized steel or non-ferrous fan and guard. Fans shall be statically and dynamically balanced. Fans shall be variable speed and controlled to maintain adjustable pressure to increase reheat capacity where applicable and low ambient control.

B. Condenser Coil: Construct of copper tubes and copper or aluminum fins. Provide inlet guard to protect condenser fins.

C. Coil Coating: Provide seacoast or heresite coating on condenser coil similar to ElectroFin® E-Coat. Heat transfer coefficient loss shall be less than 1% after coating. Minimum salt spray resistance per ASTM B117-97 / DIN 53167 shall be 5,000 hours after coating. Phenolic coatings or fin surface only coatings are not acceptable.

D. Compressors: Provide hermetic, scroll compressors with centrifugal-type oil pumps designed for the specified refrigerant and mounted on vibration isolation. Compressors shall not produce objectionable noise or vibration inside the building. Compressors shall have five (5) year warranty. Provide dual and variable-speed compressor machines if

scheduled.

E. Service Valves: Provide for high and low pressure readings.

2.6 Evaporator Section:

A. Fans: Provide high-efficiency direct-drive impeller fans. Dynamically balance all fans. Mount fans and motors on a common base assembly and isolate from the unit with spring isolators. Mount fan shaft on grease lubricated ball bearings. Make all drive components easily accessible for maintenance. Motors shall be high efficiency type and meet ASHRAE 90.1 requirements.

B. Evaporator Coil: Provide cooling coils constructed of copper tubes and copper or aluminum fins. Fin spacing shall be maximum 12 fins per inch (FPI). Coils shall be minimum 6 interlaced rows for enhanced sensible and latent capacity.

C. Hot Gas Reheat Coil: Provide modulating hot gas reheat coils constructed of copper tubes and copper or aluminum fins. The reheat coil shall be positioned with a minimum 5" clearance from the evaporator coil to prevent water re-evaporation. Direct connection of the reheat coil to the evaporator coil is not allowed.

D. Coil Coating: Provide seacoast or heresite coating on all coils similar to ElectroFin® E-Coat. Heat transfer coefficient loss shall be less than 1% after coating. Minimum salt spray resistance per ASTM B117-97 / DIN 53167 shall be 5,000 hours after coating. Phenolic coatings or fin surface only coatings are not acceptable.

E. Face Velocity: Coils shall be selected for a maximum face velocity of 400 fpm.

F. Provide thermal expansion valve, sight glass, refrigerant drier, strainer, controls and other necessary devices for a completely automatic unit.

G. Condensate Drain Pan: Provide stainless steel, sloped, IAQ drain pan under the entire evaporator coil to prevent condensate carry-over.

2.7 Electric Heater Section:

A. Provide electric heating coils controlled by one or more magnetic contactors. Three phase coils shall be wired for balanced current in each wire, if possible. Furnish and install necessary overheating and airflow controls to meet the requirements of the National Electric Code. Provide built-in airflow switch and heater interlock relay.

B. Heaters shall be factory-mounted and wired with all required fuses and contactors to provide single point connection.

2.8 Outside Air Intake: Provide a factory-installed and integrated 100% outdoor air hood with damper controlled by a direct-coupled actuator and two-inch permanent and washable

aluminum mesh filters accessible through a hinged access panel.

2.9 Filters: Unit shall be equipped with a 6" filter rack upstream of the evaporator, and field-adjustable to match any filter combination specified. Provide minimum two-inch thick, MERV 8 filters upstream of the evaporator coil, or as specified on the drawings.

2.10 Unit Controls:

A. All safety and operational controls shall be factory wired.

B. The electrical control panel shall be easily accessible and of adequate size to house all electrical controls and devices. The unit shall be provided with single point power connection to serve controls, fans, electric heater, and compressors, factory-wired to the power connection lug set. The electrical controls shall include low voltage transformers to supply 24 VAC control power.

C. Safety and Operational Control Features:

Internal compressor overtemperature protection.
Crankcase heaters.
Individual motor overcurrent protection.
High pressure cutout.
Low pressure cutout.
Anti-recycle timer (5-minute).
Timer-type defrost control.
Phase failure and low voltage protection.
Liquid line solenoid.
Hot gas reheat.

D. Provide microprocessor controls and integrated control algorithms for heating, cooling, dehumidification, and ventilation sequences of operation in response to electronic signals from sensors measuring outdoor temperature and humidity and indoor temperature.

E. Smoke Detector Operation: Where applicable, duct-mounted smoke detectors are provided by Division 26 in the supply air stream that stop the unit and heater when actuated.

2.11 Basic Vibration Isolation: Provide vibration isolation products complying with Division 23 section "Vibration Isolation" and the following list:

A. Bases and Frames: Type BF4 or BF5.

PART 3 - EXECUTION

3.1 Installation: Install in accordance with manufacturer's printed instructions. Anchor housing to vibration isolators and steel supports as shown on the drawings with cadmium plated bolts and hardware. Secure unit to withstand 125 mph wind velocity.

3.2 Brush out fins on all coils.

3.3 Construction Filters: Provide 1" thick filters in all units during construction. After construction (but prior to the test and balance being performed) install clean final filters.

3.4 Duct Connections: Refer to other Division 23 Sections. Provide ductwork, accessories, and flexible connections as indicated.

3.5 Condensate Drain: Pipe trapped copper or PVC condensate drain (full size of unit outlet) to nearest floor/roof drain or as shown on the drawings. Refer to Division 23 section "HVAC Piping Insulation" for pipe insulation.

3.6 Cleaning: Clean tar and all other soil from housing exterior. Leave ready for Division 7, Caulking Work.

3.7 Startup: Check entire assembly for correctness of installation, alignment, and control sequencing. Start all component parts in proper sequence. Make all adjustments required to ensure proper smooth quiet operation.

**END OF SECTION**



## ARCHITECTURAL SITE PLAN LEGEND

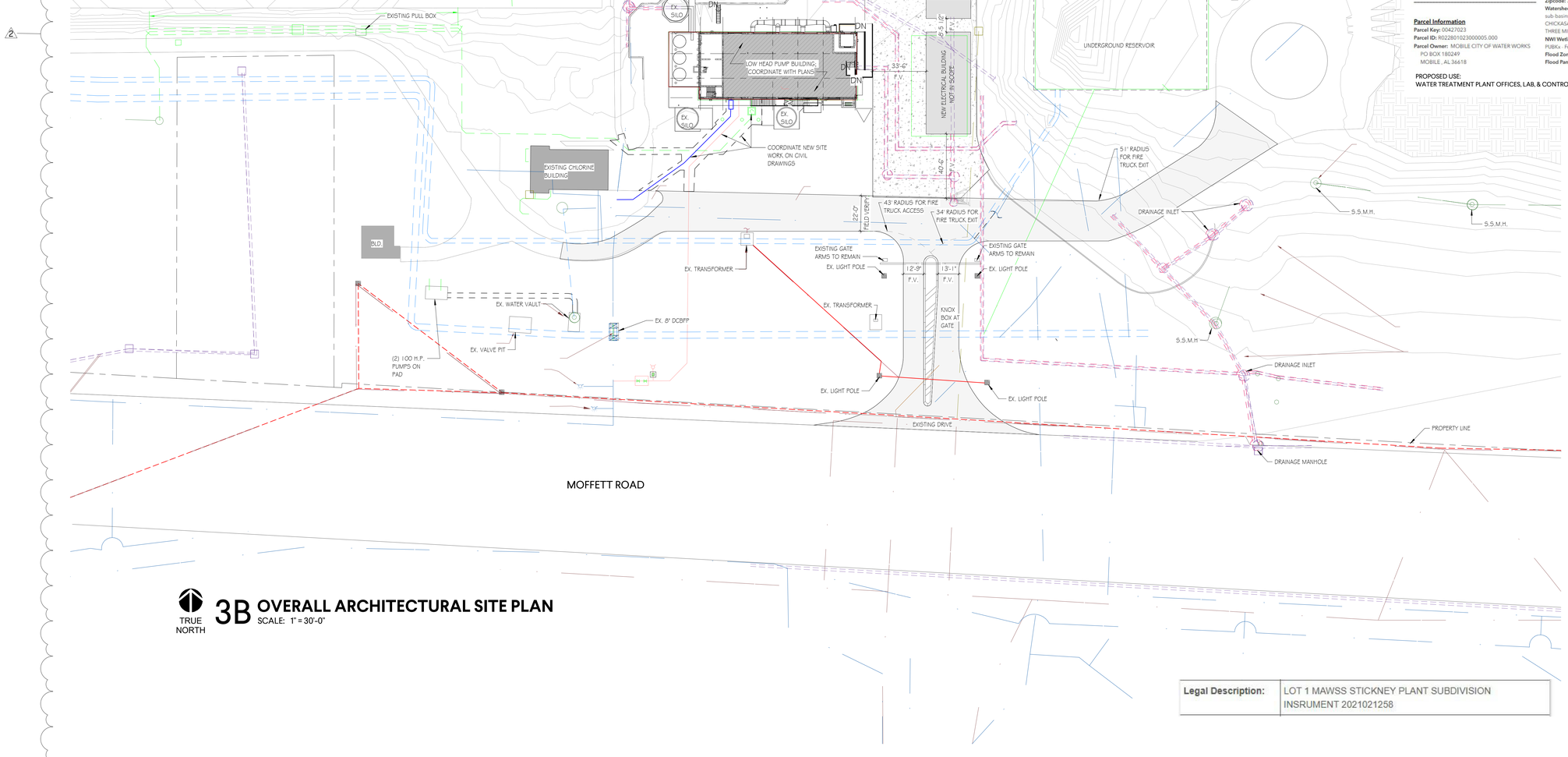
- PROPERTY LINE
- EXISTING STORM PIPES
- EXISTING GAS LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE (COLD & MAIN WATER)
- EXISTING OVERHEAD POWER
- EXISTING UNDERGROUND POWER
- CONC.- (FROM BCM AND MAWSS PLANS)
- PROPOSED 2" PE 3408 HDPE FORCE MAIN @ 30" MIN. COVER

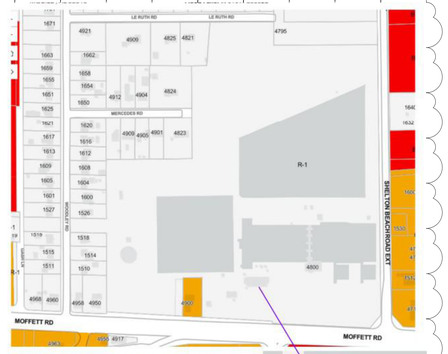
## PROJECT NOTES:

1. ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE AND THE LOCATION OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. CONTRACTOR SHALL USE EXTREME CAUTION WORKING NEAR EXISTING UTILITIES.
3. THE CONTRACTOR IS REQUIRED TO DEVELOP AN AS-BUILT SET OF DRAWINGS AS PROJECT CONSTRUCTION PROGRESSES.
4. A BEST MANAGEMENT PLAN SHALL AT MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION WITH GOOD STAND OF GRASS AND/OR SOD. SILT FENCE, HAY BALES, AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT VARIOUS UTILITY OWNERS AND DETERMINE EXACT LOCATION OF ALL EXISTING UTILITIES ON THE PROJECT. WHETHER SHOWN ON THE PLANS OR NOT, BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
6. THE CONTRACTOR SHALL PROVIDE AT NOT ADDITIONAL COST TO THE OWNER, ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTS AS REQUIRED TO ACCOMPLISH THE INTENT OF WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED.

EXISTING UTILITIES - NO HEAVY EQUIPMENT. POT HOLE AND HYDROEXCAVATE THIS AREA FOR INSTALLATION OF NEW PIPING. VERIFY AS-BUILT INVERTS AND SIZES OF PIPES ENCOUNTERED & PROVIDE INFORMATION FOR AOR REVIEW PRIOR TO INSTALLATION OF NEW PIPING. UPON APPROVAL OF ROUTING AND IDENTIFICATION OF OBSTRUCTIONS ENCOUNTERED, FILL TRENCHES AS SPECIFIED AND AS PER CIVIL DESIGN & PROVIDE ALL INFORMATION ON RECORD SURVEY FOR COMPLETION OF RECORD SURVEY IN CLOSEOUT DOCS.

EXCAVATION CORRIDOR - GENERALLY STAY WITHIN THESE LIMITS. GMC, LLC TO PROVIDE CEI FOR ALL WORK IN THESE AREAS.




MOBILE AREA WATER & SEWER SYSTEM
STICKNEY WATER TREATMENT PLANT
LOW HEAD BUILDING

| | | | |
|---|---|---|---|
| Owner or Tenant Name: | MOBILE CITY OF WATER WORKS | | |
| Assigned House Number: | 4800 | | |
| Street Name: | MOFFETT RD | | |
| Unit: | N/A | | |
| Legal Description: | N/A | | |
| Subdivision: | MAWSS STICKNEY PLANT SUBDIVISION | | |
| Flood Zone: | X-UNSHADED | Base Flood Elevation: | N/A |
| Flood Panel #: | 01097C0532L | Tax ID/Parcel#: | R022801023000005.000 |
| FEMA Community #: | 15007 | CLOMR-F Case Number: | N/A |

**Zoning Districts - Article 2**
**District:** R-1: Single-Family Residential
**Sub-District:** Suburban
**Ordinance # & Link:** Verify with Planning & Zoning

**Map for Mobile**
**Future Land Use Map :** Light Industry

**Parcel Information**
**Parcel Key:** 00427023
**Parcel ID:** R022801023000005.000
**Parcel Owner:** MOBILE CITY OF WATER WORKS
PO BOX 180249
MOBILE, AL 36618

**Addresses:** 4800 Moffett Rd
**Jurisdiction:** Mobile City Limits
**PLS Section:** 4S2W02
**Council District:** 1
**Zipcode:** 36618
**Watershed SubBasins:** Parcel is within 2 watershed sub-basins.
CHICKASAW CREEK
THREE MILE CREEK
**NWI Wetlands:** PUBKx - Freshwater Pond
PUBKx - Freshwater Pond
**Flood Zones:** N/A
**Flood Panel #:** 01097C0532L

PROPOSED USE:
WATER TREATMENT PLANT OFFICES, LAB, & CONTROL ROOM.

TRUE NORTH

## 3B OVERALL ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0"

| | |
|---|---|
| **Legal Description:** | LOT 1 MAWSS STICKNEY PLANT SUBDIVISION<br>INSRUMENT 2021021258 |


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Goodwyn Mills Cawood, LLC
11 North Water Street, Suite 19290
Mobile, AL 36602
T 251.460.4006
GMCNETWORK.COM


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| ADDENDUM #2 | 09/29/2026 |
| 2 | |

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CHECKED BY: CL

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Mobile, AL 36618

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**OVERALL ARCHITECTURAL SITE PLAN**

A0.01

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## GENERAL NOTES - FLOOR PLAN

**DO NOT SCALE DRAWINGS.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS FROM THE SCALING OF DRAWINGS. PRIOR TO BID THE CONTRACTOR SHALL REVIEW AND COORDINATE THE ENTIRE SET OF CONTRACT DOCUMENTS. IF ANY DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL OBTAIN CLARIFICATION IN WRITING FROM THE ARCHITECT BEFORE CONTINUING WITH WORK.

GENERAL CONTRACTOR SHALL COORDINATE WITH ALL FIELDS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCIES WITH FLOOR PLANS, ENLARGED PLANS, ELEVATIONS, DETAILS, ETC., PRIOR TO SUBMITTING A BID. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS RESULTING FROM NOT COORDINATING THE ENTIRE SET OF CONTRACT DOCUMENTS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND/OR DIMENSIONS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK IN THE EFFECTED AREA.

CONTRACTOR SHALL COORDINATE EXACT SIZE AND FINAL LOCATION OF ALL STRUCTURAL, FIRE PROTECTION, PLUMBING, ELECTRICAL AND MECHANICAL REQUIREMENTS WITH THE APPROPRIATE SUB-CONTRACTOR PRIOR CONSTRUCTION. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING ANY WORK IN THE AFFECTED AREA.

ALL DIMENSIONS SHOWN AT:
-METAL STUD WALLS ARE TO THE CENTERLINE OF FRAMING; U.N.O.
(U.N.O. - UNLESS NOTED OTHERWISE)

REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION ON NEW DOORS.

REFER TO FINISH LEGEND FOR PAINT COLORS CALLED OUT ON REFLECTED CEILING PLANS AND FINISH PLANS.

UNLESS OTHERWISE NOTED, ALL FLOOR TILE SHALL BE CENTERED IN ROOM.

UNLESS OTHERWISE NOTED, ALL CEILING GRID AND LIGHT FIXTURES SHALL BE CENTERED IN ROOM/OPENING.

CONTRACTOR TO REVIEW WITH ARCHITECT, ON SITE, ALL FLOOR, WALL, AND CEILING FINISHES BEFORE FINISH WORK BEGINS.

REFER TO RCP LEGEND ON REFLECTED CEILING PLANS FOR RCP ABBREVIATIONS AND FINISHES.

WALL TILE AND BASE GROUT LINES SHALL ALIGN WITH FLOOR TILE.

CONTRACTOR TO PROVIDE AND INSTALL BLOCKING FOR GRAB BARS AND TOILET ACCESSORIES IN RESTROOMS.

REFER TO STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL FOR ADDITIONAL INFORMATION.

CONTRACTOR SHALL PROVIDE AND INSTALL NEW FULL HEIGHT TILE WALL ON EVERY WALL FACE IN BOTH MEN AND WOMENS RESTROOMS. COORDINATE WITH FINISH PLANS.

## KEY NOTES - CONSTRUCTION

| KEY | KEYNOTE |
|---|---|
| C1 | GC SHALL PROVIDE AND INSTALL NEW DOOR, FRAME, AND HARDWARE. COORDINATE WITH SPECS. |
| C2 | GC SHALL PROVIDE AND INSTALL NEW WALL. COORDINATE WITH W/ WALL TAGS, ELEC, PLUMBING, MECHANICAL, & SPECS. |
| C3 | GC SHALL PROVIDE AND INSTALL NEW ELEVATOR, ELEVATOR EQUIPMENT, AND ACCESSORIES TO MAKE ELEVATOR FULLY FUNCTIONAL. COORDINATE WITH SPECS, MECH, AND ELEC. |
| C4 | GC SHALL PROVIDE AND INSTALL NEW FLOOR INFILL TO MATCH ADJACENT EXISTING FLOORING AND DETAIL. COORDINATE WITH STRUCTURAL. |
| C5 | GC SHALL PROVIDE AND INSTALL NEW EGRESS METAL PAN STAIRS AND RAILINGS. COORDINATE WITH STAIR DETAILS. |
| C6 | GC SHALL PROVIDE AND INSTALL NEW WALL INFILL TO MATCH EXISTING ADJACENT WALL. COORDINATE WITH DETAILS. |
| C7 | GC SHALL PROVIDE AND INSTALL NEW WALL BASE. COORDINATE WITH FINISH SCHEDULE. |
| C8 | GC SHALL PROVIDE AND INSTALL NEW FLOOR FINISHES. COORDINATE WITH FINISH SCHEDULE. |
| C9 | GC SHALL PROVIDE AND INSTALL NEW WALL FINISH. COORDINATE WITH FINISH SCHEDULE. |
| C10 | GC SHALL PROVIDE AND INSTALL NEW ELECTRICAL AND ACCESSORIES TO MAKE THE CARD READER FULLY FUNCTIONAL. CARD READER BY OTHERS. COORDINATE WITH HARDWARE SCHEDULE AND HARDWARE SPECS. |
| C11 | GC SHALL PROVIDE AND INSTALL NEW CASEWORK, COUNTER, BACKSPLASH, AND SINK. COORDINATE WITH SPECS, PLUMBING, AND FINISH SCHEDULE. |
| C12 | GC SHALL PROVIDE AND INSTALL NEW FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET. COORDINATE WITH SPECS. |
| C13 | GC SHALL PROVIDE AND INSTALL NEW LAB CASEWORK, LAB COUNTERTOPS, AND LAB DRYING RACKS. COORDINATE WITH SPECS, ELECTRICAL, AND PLUMBING. |
| C14 | GC SHALL PROVIDE AND INSTALL NEW SINK. COORDINATE WITH PLUMBING. |
| C15 | GC SHALL PROVIDE AND INSTALL NEW EMERGENCY SHOWER AND EYEWASH. COORDINATE WITH PLUMBING |
| C16 | GC SHALL PROVIDE AND INSTALL NEW ELECTRICAL FOR THE GATE KEYPAD. COORDINATE WITH ELECTRICAL. |
| C17 | GC SHALL PROVIDE AND INSTALL NEW MOP SINK. COORDINATE WITH PLUMBING. |
| C18 | GC SHALL PROVIDE AND INSTALL NEW RACK. COORDINATE WITH ACCESSORY SCHEDULE AND SPECS. |
| C19 | GC SHALL PROVIDE AND INSTALL NEW HOT WATER HEATER. COORDINATE WITH ELECTRICAL AND PLUMBING. |
| C20 | GC SHALL PROVIDE AND INSTALL NEW LOCKERS. COORDINATE WITH SPECS. |
| C21 | GC SHALL PROVIDE AND INSTALL NEW PLUMBING FIXTURES. COORDINATE WITH PLUMBING. |
| C22 | GC SHALL PROVIDE AND INSTALL NEW ROLL-IN SHOWER AND ADA WALL MOUNTED BENCH. COORDINATE WITH SPECS AND PLUMBING. |
| C23 | GC SHALL PROVIDE AND INSTALL NEW ADA CASEWORK, COUNTERTOP, BACKSPLASH, SINKS, AND ACCESSORIES. COORDINATE WITH SPECS AND PLUMBING. |
| C24 | GC SHALL PROVIDE AND INSTALL NEW CASEWORK, COUNTERTOP, AND BACKSPLASH. COORDINATE WITH ELEVATIONS AND FINISH SCHEDULE. |
| C25 | GC SHALL PROVIDE AND INSTALL CONTROL CONSOLE AND MONITOR WALL SCREEN. COORDINATE WITH ELECTRICAL.SEE EXHIBIT D FOR BASIS OF DESIGN OR EQUAL IN ALL REDPECTS. |

PROPOSED LOCATION FOR CATWALK FROM SECOND LEVEL TO SETTING BASINS. COORDINATE WITH STRUCTURAL DRAWINGS.

FUME HOOD TO VENT TO OUTSIDE. COORDINATE WITH MECHANICAL.

GC PROVIDE AND INSTALL NEW EXHAUST FAN LOUVER. COORDINATE WITH MECHANICAL. ARCHITECT TO SELECT COLOR.

GC PROVIDE AND INSTALL NEW EXHAUST FAN LOUVER. COORDINATE WITH MECHANICAL ARCHITECT TO SELECT COLOR.

PROVIDE AND INSTALL NEW EGRESS METAL PAN STAIRS

CONTROL ROOM 207 363 SF
STORAGE 208 34 SF
LAB 212 430 SF
ELEC 216 77 SF
ELEVATOR 5-218
STORAGE 204B 6 SF
WOMEN'S RESTROOM 204 217 SF
MEN'S RESTROOM 203 291 SF
STORAGE 202 54 SF
STAIR 201 89 SF
JAN 209 25 SF
Corridor-210-1 218 650 SF
PLC / MCC 215 42 SF
OFFICE 217 86 SF
STORAGE 206 30 SF
OFFICE 211 170 SF
CONFERENCE 213 154 SF
STORAGE 205 30 SF
LOBBY 200 356 SF
BREAK ROOM 214 283 SF
ELECTRICAL 214A 22 SF
STORAGE 207B 25 SF

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# A3 SECOND FLOOR - FLOOR PLAN
SCALE: 1/4" = 1'-0"

* SEE CAMERA LOCATIONS ON RCP AND COORDINATE WITH ELECTRICAL DRAWINGS

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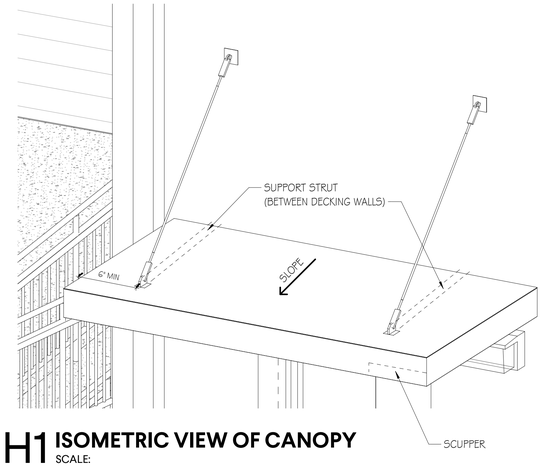
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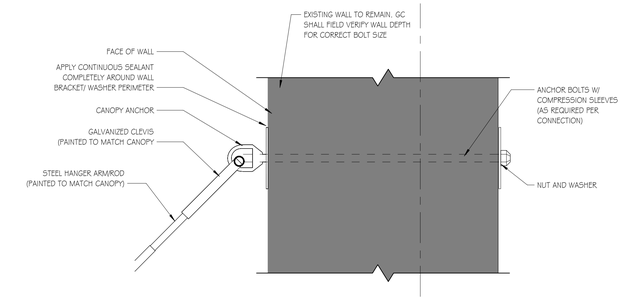
**SECOND FLOOR - FLOOR PLAN**

A1.01

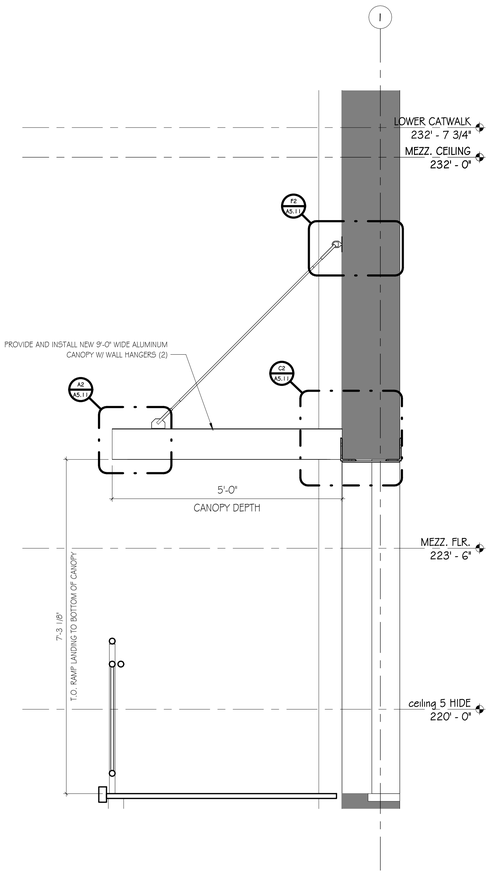
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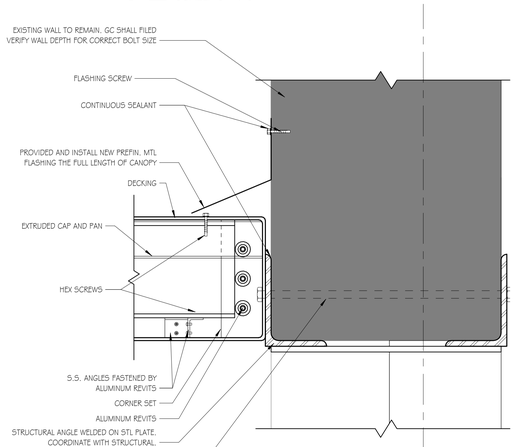



## H1 ISOMETRIC VIEW OF CANOPY
SCALE:



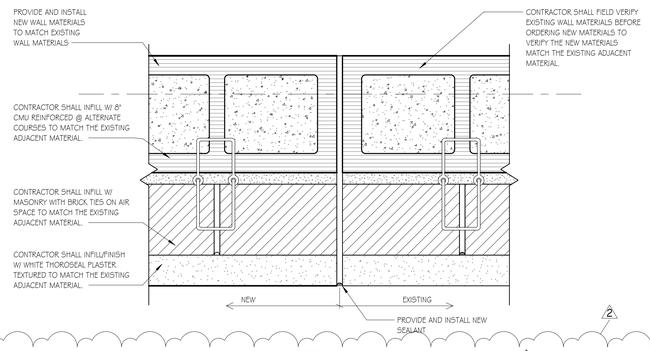

## F2 DETAIL A
SCALE: 3" = 1'-0"



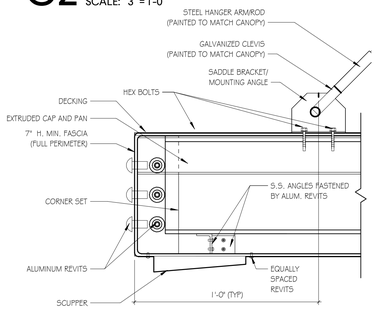




## C2 DETAIL B
SCALE: 3" = 1'-0"

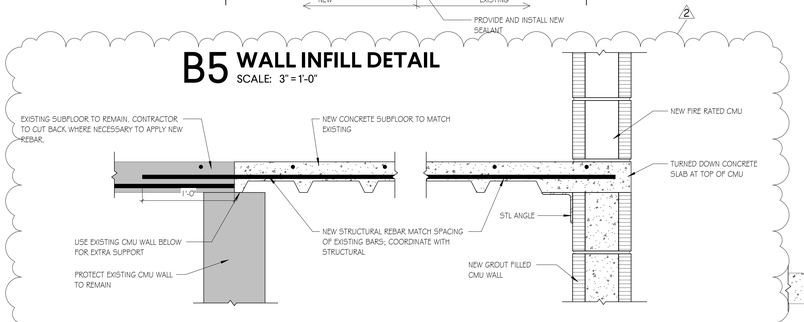
## E5 SECTION VIEW OF CANOPY
SCALE: 3/4" = 1'-0"



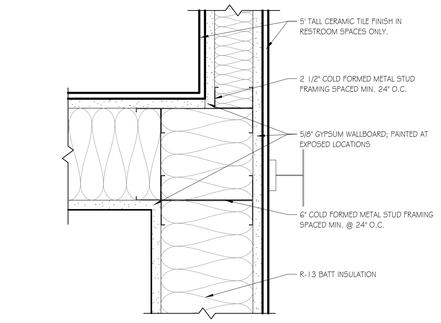

## B5 WALL INFILL DETAIL
SCALE: 3" = 1'-0"



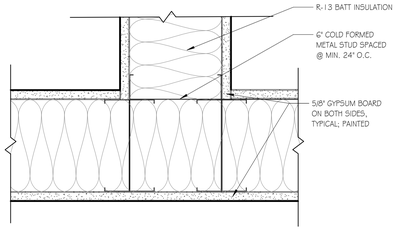

## A2 DETAIL C
SCALE: 3" = 1'-0"



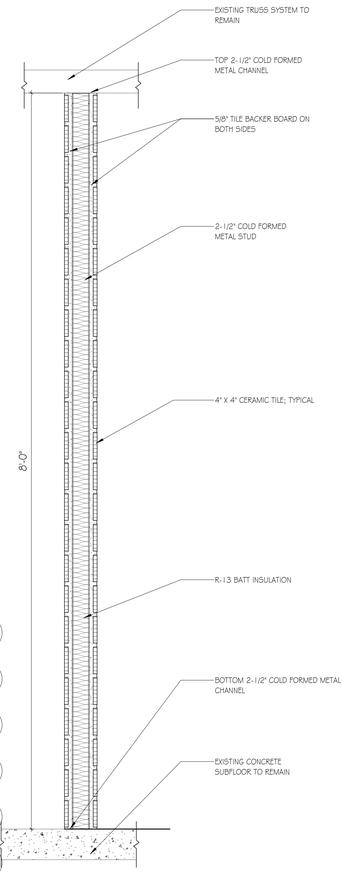

## A4 FLOOR ADDITION DETAIL
SCALE: 11/2" = 1'-0"



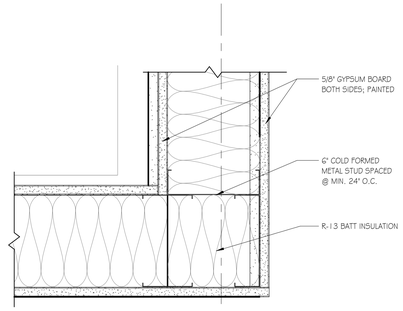

## H7 INT. 4" TO 8" WALL TRANSITION 2
SCALE: 3" = 1'-0"



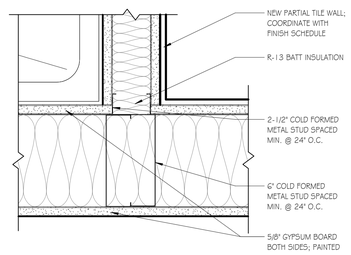

## F7 INT. T SECTION DETAIL
SCALE: 3" = 1'-0"



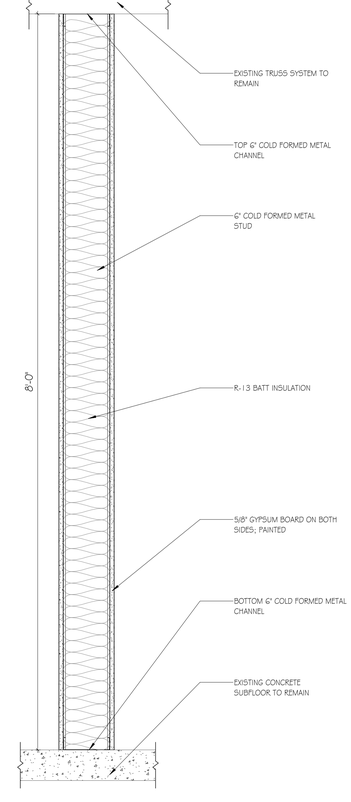

## A7 TYP. TILE WALL SECTION
SCALE: 11/2" = 1'-0"




## H10 INT. CORNER DETAIL
SCALE: 3" = 1'-0"




## F10 INT. 4" TO 8" SECTION DETAIL
SCALE: 3" = 1'-0"




## A10 TYP. INT. WALL SECTION
SCALE: 11/2" = 1'-0"

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**WALL SECTIONS & MISC. DETAILS**

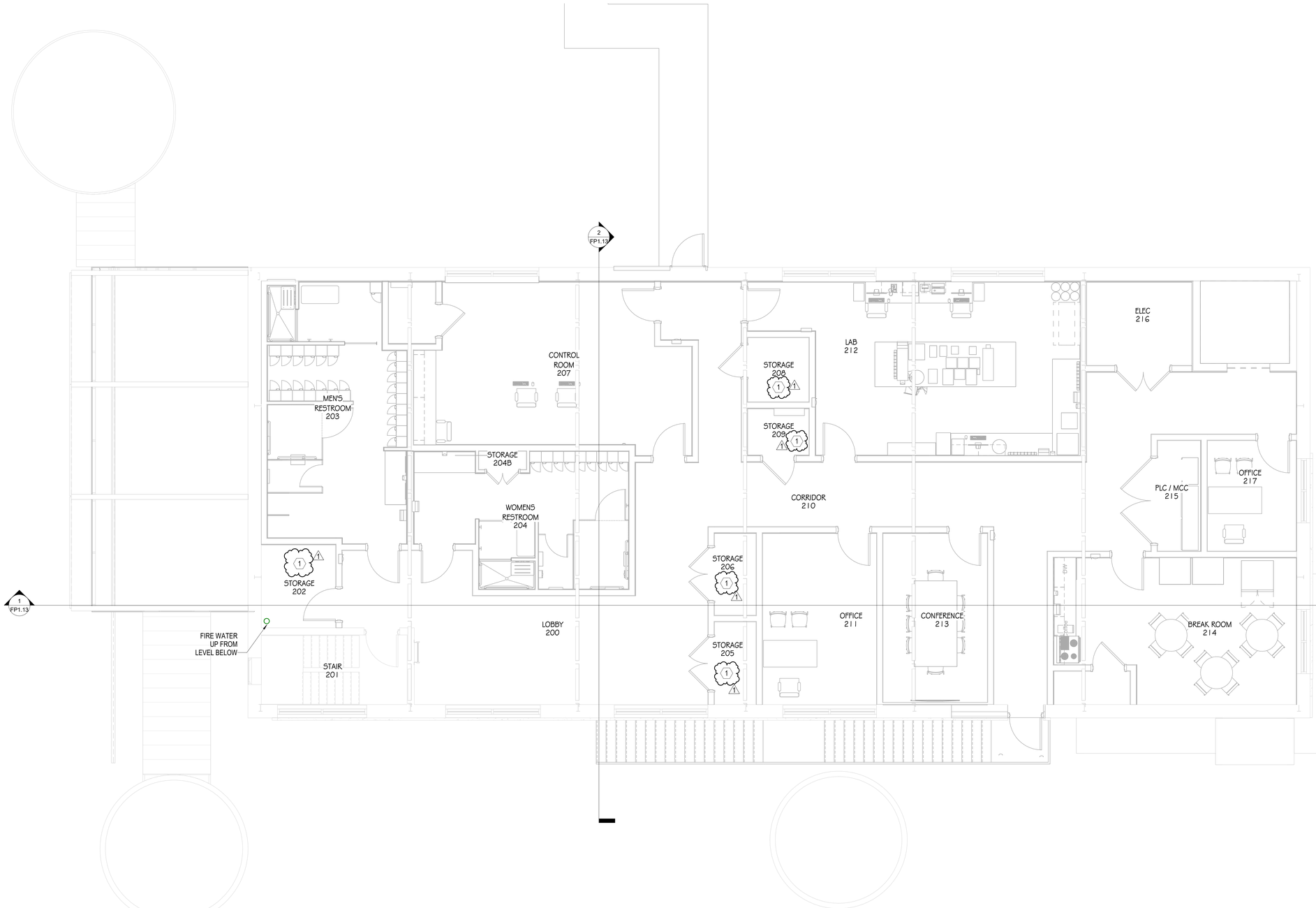
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dell consulting
MEP Engineering
Alabama Certificate Number: CA-4146-E
129 E. Government Street
Pensacola, FL 32502
P: 850-332-5687 F:850-332-6629
Dell Consulting project 24-071

## SHEET NOTES

| | |
|---|---|
| 1 | PROVIDE ORDINARY HAZARD GROUP I COVERAGE. |




TRUE NORTH

# 1 LOW HEAD LVL 2 FLOOR PLAN - FIRE PROTECTION

SCALE 1/4" = 1'-0"

GMC

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11 North Water Street, Suite 15250
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ALABAMA LICENSED No. 39069 PROFESSIONAL ENGINEER MICHAEL A. PRUET 09-29-2026

Michael A. Pruet 39069

**LOW HEAD LVL 2 FLOOR PLAN - FIRE PROTECTION**

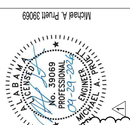
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dell consulting
MEP Engineering
Alabama Certificate Number: CA-1146-E
129 E. Government Street
Pensacola, FL 32502
P: 850-332-3887 F: 850-332-4629
Dell Consulting project 24-011

# FP1.13

**LOW HEAD SECTION**
**VIEWS - FIRE PROTECTION**




GMC AMOB23001T

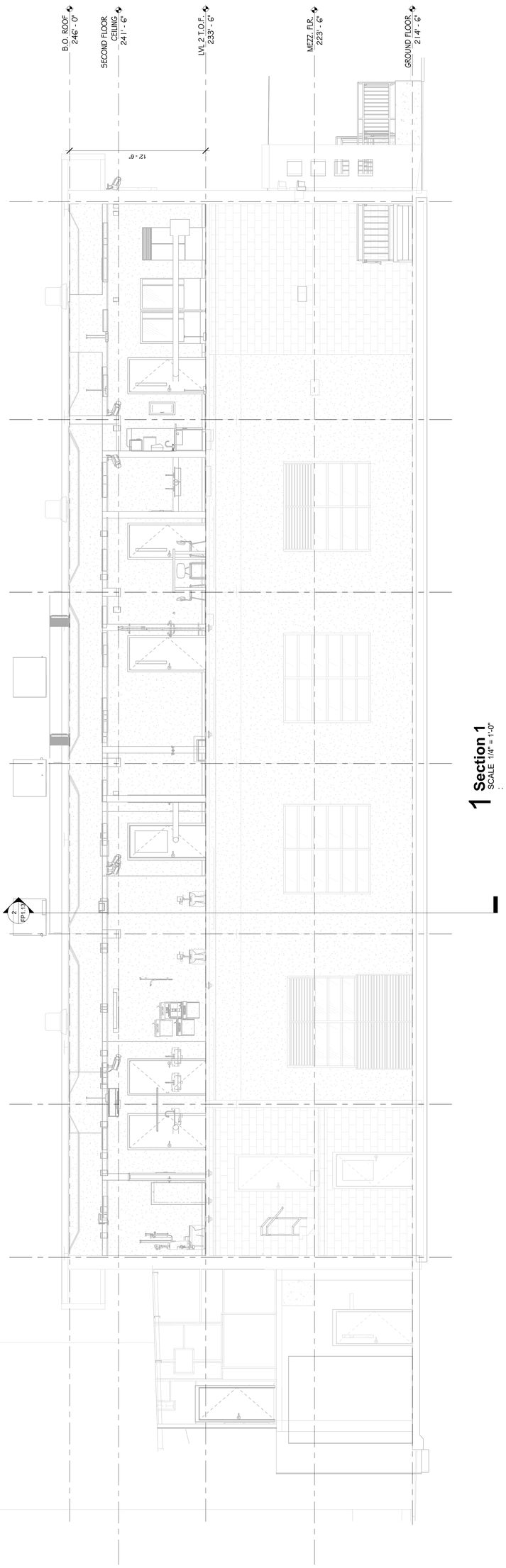
**LOW HEAD PUMP BUILDING RENOVATIONS**
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Mobile, AL 36618

| ISSUE | DATE |
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| 1 Addendum 2 | 09/29/2026 |

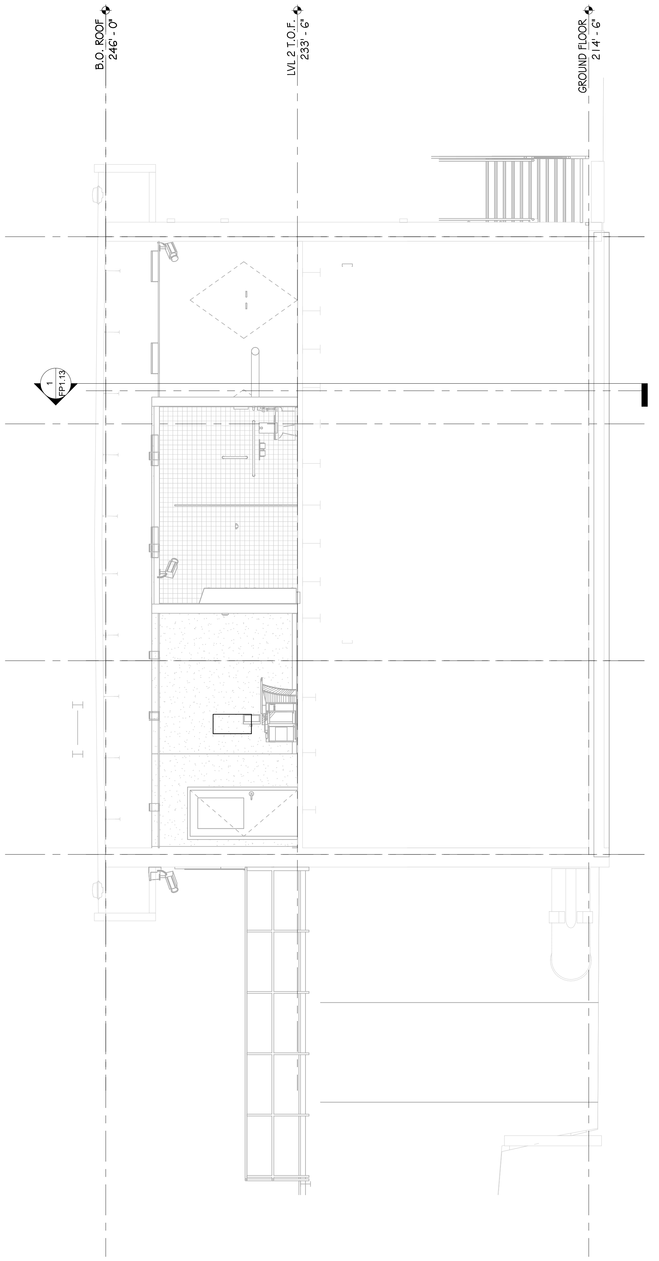
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CHECKED BY: MAP

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11 North Water Street, Suite 15250
Mobile, AL 36602
T 251.460.4006
GMCNETWORK.COM

GMC




**1 Section 1**
SCALE: 1/4" = 1'-0"

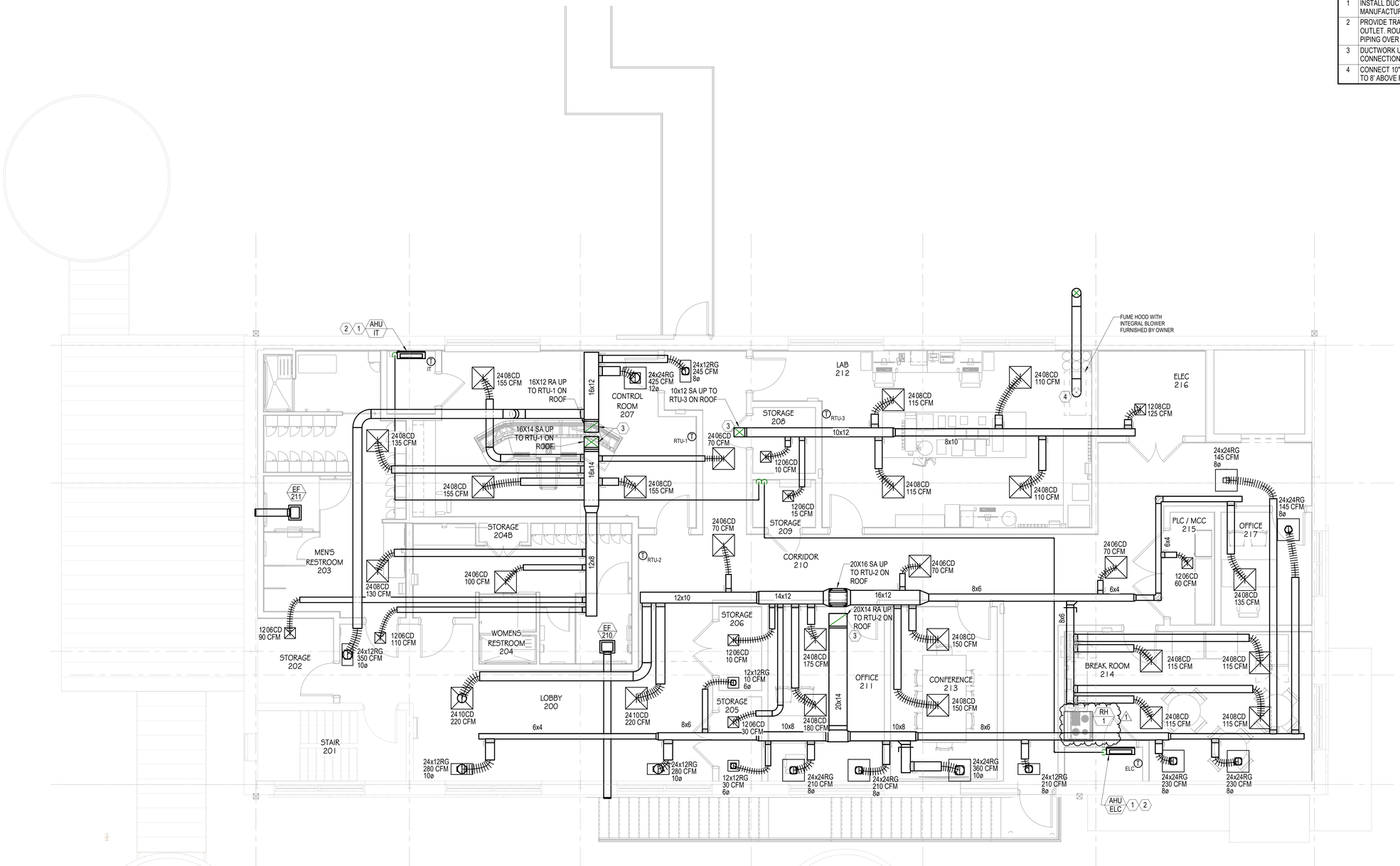



**2 Section 2**
SCALE: 1/4" = 1'-0"

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Dell Consulting project:24-071

## SHEET NOTES

| | |
|---|---|
| 1 | INSTALL DUCTLESS MINI-SPLIT HIGH ON WALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. |
| 2 | PROVIDE TRAPPED, INSULATED CONDENSATE PIPING FULL SIZE OF EQUIPMENT OUTLET. ROUTE OVERHEAD TO JANITORS SINK AS INDICATED. DO NOT ROUTE PIPING OVER ELECTRICAL OR IT EQUIPMENT. |
| 3 | DUCTWORK UP TO PACKAGED RTU ON ROOF. TRANSITION AS REQUIRED FOR CONNECTION TO RTU. |
| 4 | CONNECT 10" SS TO FUME HOOD AND TRANSITION THROUGH WALL AND ROUTE UP TO 8' ABOVE FINISHED ROOF. SUPPORT FROM STRUCTURE AS REQUIRED. |




TRUE NORTH

# 1 LOW HEAD LVL 2 FLOOR PLAN - HVAC

SCALE 1/4" = 1'-0"

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| ISSUE | DATE |
|---|---|
| 90% REVIEW SET | 09/11/26 |
| Addendum 2 | 09/29/2026 |
| 1 | |

DRAWN BY: ZEC
CHECKED BY: MAP

**LOW HEAD PUMP BUILDING RENOVATIONS**
4800 Moffett Rd,
Mobile, AL 36618

GMC AMOB230011

ALABAMA LICENSED No. 39069 PROFESSIONAL ENGINEER MICHAEL A. PRUETT 09-29-2026

Michael A. Pruett 39069

**LOW HEAD LVL 2 FLOOR PLAN - HVAC DUCTWORK**

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9/29/2026 2:26:07 PM TEMPLATE VERSION: 2022.1

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## DUCTLESS SPLIT-SYSTEM HEAT PUMP SCHEDULE (OUTDOOR UNIT)

| MARK | LOCATION | SERVICE | REFRIGERANT TYPE | DESIGN CONDITIONS | | | DX COOLING CYCLE | | DX HEATING CYCLE (47°F OUTDOOR) | | ELECTRICAL | | | UNIT WEIGHT (LB) | BASIS OF DESIGN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WINTER OUTDOOR (°F) | SUMMER OUTDOOR | | TOTAL CAPACITY (BTUH) | SEER2 | TOTAL CAPACITY (BTUH) | HSPF2 | V/PH/Hz | MCA | MOCP | | MANUFACTURER | MODEL |
| | | | | | DB (°F) | WB (°F) | | | | | | | | | | |
| CU-IT | ROOF | IT ROOM | R-32 | 29 | 95 | 78 | 17,300 | 18.0 | 18,000 | 8.5 | 208/1/60 | 17.7 | 20 | 100 | DAIKIN | RXC18BVJU9 |
| CU-ELC | ROOF | ELEVATOR CONTROLS | R-32 | 29 | 95 | 78 | 17,300 | 18.0 | 18,000 | 8.5 | 208/1/60 | 17.7 | 20 | 100 | DAIKIN | RXC18BVJU9 |

NOTES:
1. COOLING AND HEATING CAPACITIES RATED AT AHRI STANDARD CONDITIONS.
2. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATION.
3. SUBMIT APPROXIMATE REFRIGERANT LINE LENGTHS (TOTAL AND VERTICAL) AND SIZES FOR REVIEW WITH PRODUCT DATA.
4. PROVIDE HAIL GUARD FOR CONDENSER COIL.
5. PROVIDE SEACOAST PROTECTION FOR CONDENSER COIL.
6. PROVIDE VARIABLE-SPEED INVERTER COMPRESSOR.

## DUCTLESS SPLIT-SYSTEM HEAT PUMP SCHEDULE (INDOOR UNIT)

| MARK | ASSOCIATED OUTDOOR UNIT | TYPE | SERVICE | REFRIGERANT TYPE | DESIGN CONDITIONS | | | FAN DATA | | DX COOLING CYCLE | | | DX HEATING CYCLE | | ELECTRICAL | | UNIT WEIGHT (LB) | BASIS OF DESIGN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WINTER INDOOR (°F) | SUMMER INDOOR | | SUPPLY AIRFLOW (CFM) | FAN MOTOR | TOTAL CAPACITY (BTUH) | COIL EAT | | TOTAL CAPACITY (BTUH) | COIL EAT (°F) | V/PH/Hz | MCA | | MANUFACTURER | MODEL |
| | | | | | | DB (°F) | WB (°F) | | | | DB (°F) | WB (°F) | | | | | | | |
| AHU-IT | CU-IT | WALL MOUNTED | IT | R-32 | 70 | 75 | 63 | 378 | 3A | 18,000 | 80 | 67 | 17,300 | 70 | 208/1/60 | 3 | 30 | DAIKIN | FTXC18BVJU9 |
| AHU-ELC | CU-ELC | WALL MOUNTED | IT | R-32 | 70 | 75 | 63 | 378 | 3A | 18,000 | 80 | 67 | 17,300 | 70 | 208/1/60 | 3 | 30 | DAIKIN | FTXC18BVJU9 |

NOTES:
1. COOLING AND HEATING CAPACITIES RATED AT AHRI STANDARD CONDITIONS.
2. PROVIDE VARIABLE SPEED FAN; AIRFLOW LISTED AT MEDIUM SPEED.
3. PROVIDE HARD-WIRED WALL-MOUNTED THERMOSTAT.
4. PROVIDE 24V CONTROL WIRING FROM EACH INDOOR UNIT TO ASSOCIATED CONDENSING UNIT AS REQUIRED.
5. SUBMIT APPROXIMATE REFRIGERANT LINE LENGTHS (TOTAL AND VERTICAL) AND SIZES FOR REVIEW WITH PRODUCT DATA.
6. PROVIDE INTEGRAL CONDENSATE PUMP.

## OUTSIDE AIR VENTILATION CALCULATIONS

SYSTEM TAG: OA-AHU-3
SYSTEM TYPE: 100% OUTSIDE AIR SYSTEM
APPLICABLE CODE: 2015 INTERNATIONAL MECHANICAL CODE, SECTION 403

| ROOM NAME AND NUMBER | CATEGORY | FLOOR AREA, Az (SF) | FLOOR AREA OA RATE, Ra (CFM/SF) | ROOM OCCUPANCY, Pz (PEOPLE) | OCCUPANCY OA RATE, Rp (CFM/PERSON) | BREATHING ZONE OUTSIDE AIRFLOW, Vbz (CFM) | AIR DISTRIBUTION EFFECTIVENESS, Ez | ROOM OUTSIDE AIRFLOW, Voz (CFM) | DESIGN OUTSIDE AIRFLOW, Vpz (CFM) |
|---|---|---|---|---|---|---|---|---|---|
| 208 STORAGE | DRY STORAGE ROOMS | 43 | 0.06 | 0 | 5.0 | 2.6 | 1.0 | 2.6 | 10 |
| 209 JANITOR | DRY STORAGE ROOMS | 32 | 0.06 | 0 | 5.0 | 1.9 | 1.0 | 1.9 | 15 |
| 212 LAB | UNIVERSITY/COLLEGE LABORATORIES | 476 | 0.18 | 45 | 10.0 | 535.7 | 1.0 | 535.7 | 450 |
| 216 HVAC | DRY STORAGE ROOMS | 100 | 0.06 | 0 | 5.0 | 6.0 | 1.0 | 6.0 | 125 |
| TOTALS | | 650 | - | 45 | - | 546.1 | - | 546.1 | 600 |

SYSTEM SUMMARY

| | |
|---|---|
| OCCUPANT DIVERSITY, D | 1 |
| MINIMUM REQUIRED OUTSIDE AIRFLOW, Vot (CFM) | 546.1 |
| DESIGN OUTSIDE AIRFLOW (CFM) | 600 |

## RECIRCULATING VENT HOOD SCHEDULE

| MARK | LOCATION | SERVICE | TYPE | DIMENSIONS | | | | ELECTRICAL | | RECIRCULATING AIRFLOW LOW-HIGH (CFM) | BASIS OF DESIGN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | WEIGHT (LBS) | V/PH/Hz | MOCP | | MFR | MODEL |
| RH-1 | BREAK ROOM | COOKING RANGE | WALL-MOUNTED | 30 | 19.25 | 7 | 33.25 | 120/1/60 | 15 | 30-40 | DENLAR | DS-30-F |

NOTES:
1. INSTALL HOOD AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE "DS-TEST-TANK" ACCESSORY FOR FIELD TESTING.
3. PROVIDE HANDICAP ACCESSIBLE CONTROLS FOR ALL VENT HOODS LOCATED IN ADA DESIGNATED SUITES/ROOMS.

## EXHAUST FAN SCHEDULE

| MARK | LOCATION | SERVICE | TYPE | DRIVE | PERFORMANCE DATA | | | | | MOTOR DATA | | CONTROL | REMARKS | BASIS OF DESIGN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AIRFLOW (CFM) | ESP (IN. WC) | FAN BHP | RPM | SONES | SIZE | ELEC (V/PH/HZ) | | | MANUFACTURER | MODEL |
| EF-210 | WOMENS RESTROOM | GENERAL EXHAUST | CEILING | DIRECT | 150 | 0.2 | 1/8 | 770 | 0.9 | 4.4 A | 115/1/60 | INTERLOCK WITH LIGHTS | 1,2,3,4,5,6 | COOK | GCVF-700 |
| EF-211 | MENS RESTROOM | GENERAL EXHAUST | CEILING | DIRECT | 300 | 0.2 | 1/8 | 860 | 1.3 | 4.4 A | 115/1/60 | INTERLOCK WITH LIGHTS | 1,2,3,4,5,6 | COOK | GCVF-700 |

REMARKS:
(1) PROVIDE THERMOSTAT.
(2) PROVIDE BIRD SCREEN.
(3) PROVIDE BACKDRAFT DAMPER.
(4) PROVIDE DISCONNECT.
(5) PROVIDE THERMAL OVERLOAD.
(6) PROVIDE FAN SPEED CONTROLLER.
(7) PROVIDE WALL MOUNTED THERMOSTAT TO OVERRIDE LIGHT CONTROL AND ENERGIZE AT 80 DEGREES FARENHEIT (ADJUSTABLE.)

## PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE

| MARK | LOCATION | SERVICE | REFRIGERANT TYPE | DESIGN CONDITIONS | | | | | | FAN DATA | | | | DX COOLING CYCLE | | | | | DX HEATING CYCLE | | | AUXILIARY HEATING DATA | | | ELECTRICAL | | | FILTER SECTION | UNIT WEIGHT (LB) | BASIS OF DESIGN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | WINTER OUTDOOR (°F) | WINTER INDOOR (°F) | SUMMER OUTDOOR | | SUMMER INDOOR | | SUPPLY AIRFLOW (CFM) | OUTDOOR AIRFLOW (CFM) | ESP (IN. WC) | FAN MOTOR (HP) | TOTAL CAPACITY (BTUH) | SENSIBLE CAPACITY (BTUH) | COIL EAT | | SEER2 | TOTAL CAPACITY (BTUH) | COIL EAT (°F) | HSPF2 | TYPE | CAPACITY (kW) | STAGES | V/PH/Hz | MCA | MOCP | | | MAKE | MODEL |
| | | | | | | DB (°F) | WB (°F) | DB (°F) | WB (°F) | | | | | | | DB (°F) | WB (°F) | | | | | | | | | | | | | |
| RTU-1 | ROOF | CONTROL ROOM, RESTROOMS | R-32 | 29 | 70 | 95 | 78 | 75 | 63 | 1,200 | 180 | 1 | 0.75 | 35,200 | 27,900 | 78 | 65.5 | 14.0 | 33,600 | 70 | 6.9 | ELECTRIC | 5 | 2 | 208/3/60 | 32.9 | 40 | 2" PLEATED | 550 | DAIKIN | DSH036 |
| RTU-2 | ROOF | OFFICES, LOBBY, CORRIDOR | R-32 | 29 | 70 | 95 | 78 | 75 | 63 | 2,000 | 300 | 1 | 1 | 58,000 | 47,000 | 78 | 65.5 | 13.7 | 55,000 | 70 | 6.9 | ELECTRIC | 10 | 2 | 208/3/60 | 56.5 | 60 | 2" PLEATED | 600 | DAIKIN | DSH060 |

REMARKS:
1. COOLING AND HEATING CAPACITIES RATED AT AHRI STANDARD CONDITIONS.
2. PROVIDE 120V CONVENIENCE OUTLET.
3. PROVIDE DISCONNECT SWITCH.
4. PROVIDE THROUGH-THE-BASE, SINGLE POINT POWER CONNECTION.
5. PROVIDE HINGED & LATCHED ACCESS DOORS.
6. PROVIDE ROOF CURB SIZED TO EXTEND A MINIMUM OF 8 INCHES ABOVE FINISHED ROOF.
7. PROVIDE HAIL GUARD FOR CONDENSER COIL.
8. PROVIDE SEACOAST PROTECTION FOR CONDENSER COIL.
9. N/A.
10. N/A.
11. N/A. 1

## PACKAGED 100% OUTSIDE AIR ROOFTOP UNIT SCHEDULE

| MARK | LOCATION | REFRIGERANT TYPE | SUPPLY FAN DATA | | | | | | | | | | | DX COOLING CYCLE | | | | | | | | DX HEATING CYCLE | | | | | AUXILIARY HEATING DATA | | | CONDENSING SECTION | | ELECTRICAL | | | FILTER SECTION | | | UNIT WEIGHT (LB) | BASIS OF DESIGN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | FAN TYPE | FAN QTY | DRIVE TYPE | SUPPLY AIRFLOW (CFM) | OUTDOOR AIRFLOW (CFM) | TSP (IN. WC) | ESP (IN. WC) | MAX BHP | FAN RPM | FAN MOTOR | | TOTAL CAPACITY (MBH) | SENSIBLE CAPACITY (MBH) | COIL EAT | | COIL LAT | | MIN ROWS | MAX FPI | MAX FACE VELOCITY (FPM) | ISMR E2 | TYPE | STAGES | TOTAL CAPACITY (MBH) | EAT (°F) | LAT (°F) | TYPE | CAPACITY (kW) | STAGES | COMPRESSOR QTY | FAN QTY | V/PH/Hz | MCA | MOCP | TYPE | EFFICIENCY | DIRTY FILTER PRESSURE DROP (IN. WG) | | MAKE | MODEL |
| | | | | | | | | | | | | HP | DRIVE | | | DB (°F) | WB (°F) | DB (°F) | WB (°F) | | | | | | | | | | | | | | | | | | | | | | |
| RTU-3 | ROOF | R-454B | CENTRIFUGAL | 1 | DIRECT | 600 | 600 | 1.15 | 1 | 0.22 | 1592 | 1/2 | DIRECT | 55.9 | 28.6 | 95.0 | 78.0 | 47.4 | 53.8 | 4 | 15 | 150 | 9.88 | HOT GAS REHEAT | MODULATING | 14.7 | 27 | 70 | ELECTRIC | 6 | SCR | 1 | 1 | 208/3/60 | 51 | 60 | 2" PLEATED | MERV 8 | 1.0 | 1,300 | DAIKIN | DPSH06B |

NOTES:
1. PROVIDE 120V CONVENIENCE OUTLET.
2. PROVIDE DISCONNECT SWITCH.
3. PROVIDE THROUGH-THE-BASE, SINGLE POINT POWER CONNECTION.
4. PROVIDE ROOF CURB SIZED TO EXTEND A MINIMUM OF 8 INCHES ABOVE FINISHED ROOF. CURB ASSEMBLY SHALL INCLUDE SOUND ATTENUATION MEDIA.
5. PROVIDE SEACOAST PROTECTION FOR ALL COILS.
6. PROVIDE SINGLE ZONE TEMPERATURE AND HUMIDITY CONTROL.
7. PROVIDE CONTROLS TO INTERLOCK UNIT OPERATION WITH LAB EXHAUST FANS.

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ISSUE | DATE
1 | Addendum 2 | 09/29/2026
90% REVIEW SET | 09/1/26
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CHECKED BY: MAP

LOW HEAD PUMP BUILDING RENOVATIONS
4800 Moffett Rd,
Mobile, AL 36618
GMC AMOB230011

ALABAMA LICENSED PROFESSIONAL No. 39069 09-29-2026 MICHAEL A. PRUETT, ENGINEER
Michael A. Pruett 39069

SCHEDULES
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## PLUMBING ABBREVIATIONS

| | |
|---|---|
| ADA | AMERICANS WITH DISABILITY ACT |
| CP | CIRCULATOR PUMP |
| DCW | DOMESTIC COLD WATER |
| DFU | DRAINAGE FIXTURE UNITS |
| DHW | DOMESTIC HOT WATER |
| DHWR | DOMESTIC HOT WATER RETURN |
| EEW/S | EMERGENCY EYE WASH/SHOWER |
| EFD | EMERGENCY FLOOR DRAIN |
| EWC | ELECTRIC WATER COOLER |
| EWH | ELECTRIC WATER HEATER |
| EX | EXISTING |
| °F | DEGREE FAHRENHEIT |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| GAL | GALLONS |
| GPM | GALLONS PER MINUTE |
| GPF | GALLONS PER FLUSH |
| HD | HUB DRAIN |
| HR | HOUR |
| IMB | ICE MAKER BOX |
| IN | INCH |
| LV | LAVATORY |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| NTS | NOT TO SCALE |
| SH | SHOWER |
| SK | SINK |
| SVS | SERVICE SINK |
| TYP | TYPICAL |
| UR | URINAL |
| V | VENT |
| VTR | VENT THROUGH ROOF |
| W | WATTS; WASTE |
| WC | WATER CLOSET |
| WCO | WALL CLEANOUT |

## PLUMBING LEGEND

- 3" W — SANITARY SEWER
- 1 1/2" V — VENT
- 2" DCW — DOMESTIC COLD WATER
- 1" DHW — DOMESTIC HOT WATER
- 1/2" DHWR — DOMESTIC HOT WATER RETURN
- EXISTING PIPE
- DEMO PIPE
- PIPE UP
- PIPE DOWN
- BALL VALVE
- CHECK VALVE
- BALANCING VALVE
- VTR — VENT THROUGH ROOF
- INLINE PUMP
- CONNECT TO EXISTING
- EWH 1 — EQUIPMENT TAG
- 1 / P300 — INDICATES RISER DIRECTION; SHEET WHERE RISER IS DRAWN
- WTR — INDICATES RISER TYPE

## PLUMBING GENERAL NOTES

1. THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH MINIMUM INTERFERENCE TO OTHER TRADES.
2. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS IN THE FIELD TO ENSURE A CLOSE, NEAT INSTALLATION WITH ALL OTHER TRADES' WORK AND EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTIONS TO ALL PLUMBING FIXTURES AS INDICATED ON THE PLUMBING AND ARCHITECTURAL DRAWINGS. WHERE THERE EXISTS ANY DISCREPANCY IN THE DRAWINGS, THE SPECIFICATIONS OR DESIGN REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE MORE STRINGENT REQUIREMENT AND THEN BRING THE DISCREPANCY TO THE ARCHITECT.
4. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND LOCATIONS OF ALL PLUMBING UTILITIES WITH OTHER TRADES AND COORDINATE ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL OPENINGS IN FOUNDATION WALLS, FLOORS AND ROOF SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
5. SANITARY VENTS-THRU-ROOF, SHALL BE FLASHED WATER TIGHT AND SHALL EXTEND A MINIMUM OF 12" ABOVE ROOF AND SHALL BE COORDINATED WITH THE ROOFING CONTRACTOR.
6. ALL FLOOR DRAIN P-TRAPS SHALL HAVE TRAP SEAL PROTECTION. THE TYPE OF TRAP SEAL PROTECTION SHALL BE AS INDICATED ON PLUMBING PLANS OR AS APPROVED BY LOCAL CODE OFFICIAL.
7. PROVIDE WATER HAMMER ARRESTORS ON THE HOT AND COLD WATER SUPPLY FOR ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT AS REQUIRED BY PDI WH201.
8. PROVIDE ANTI-SIPHON DEVICES ON ALL HOSE END CONNECTION FAUCETS AND HOSE BIBBS.
9. PROVIDE FIRE STOPPING FOR ALL PIPING PENETRATING RATED FLOORS, WALLS, PARTY WALLS AND CEILINGS. FIRE STOPPING METHODS SHALL BE AS INDICATED IN THE SPECIFICATIONS AND AS PER CODE REQUIREMENTS. PROVIDE FIRE STOPPING MATERIALS AND METHODS IN SUBMITTALS WITH PLUMBING SUBMITTALS.
10. NO FITTINGS SHALL BE ALLOWED ON DOMESTIC WATER PIPING BELOW CONCRETE SLAB.
11. PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.

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## CIRCULATION PUMP SCHEDULE

| MARK | MAKE | MODEL | FLOW DATA | | PUMP SIZE | | ELECTRICAL | | | PUMP CONFIGURATION | DRIVE TYPE | SERVICE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | FLOW (GPM) | HEAD (FT) | SUCTION (IN) | DISCHARGE (IN) | MOTOR WATTS | MOTOR RPM | V/PH/HZ | | | |
| CP-1 | ARMSTRONG | 230SS | 3 | 13 | 1" | 1" | 100 | - | 120/1/60 | INLINE CARTRIDGE CIRCULATOR | DIRECT | DOMESTIC HOT WATER RETURN CIRCULATION |

NOTES:
1. PROVIDE STAINLESS STEEL OR BRONZE CONSTRUCTION INTENDED FOR POTABLE WATER SERVICE.
2. PROVIDE CIRCULATION PUMP WITH PROGRAMMABLE TIMER WITH MINIMUM 1/4 HOUR (15 MINUTE) INTERVALS AND AQUASTAT.

## ELECTRIC WATER HEATER SCHEDULE

| MARK | STORAGE CAPACITY (GALLONS) | INLET TEMPERATURE (°F) | STORAGE TEMPERATURE (°F) | RECOVERY (GPH) | ELECTRICAL | | | | THERMAL EFFICIENCY | MAKE | MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | POWER (KW) | CURRENT (A) | (V/PH/HZ) | HEATING ELEMENTS (QTY) | | | |
| EWH-1 | 55 | 60 | 140 | 46 | 9 | 25 | 208/3/60 | 2 | 98% | AO SMITH | DEN-52 |

REMARKS:
1. PROVIDE WITH DRAIN VALVE, TEMPERATURE AND PRESSURE RELIEF VALVE & DRAIN PAN, PIPED TO FLOOR DRAIN.
2. PROVIDE WITH ANODE ROD, DIP TUBE, & DIELECTRIC UNIONS.
3. SCHEDULED INPUT POWER (KW) IS INTENDED NON-SIMULTANEOUS OPERATION (UPPER/LOWER ELEMENTS, EACH AT 4.5 KW.
4. SCHEDULED RECOVERY IS RATED FOR A 80°F TEMPERATURE RISE.

## PLUMBING FIXTURE SCHEDULE

| MARK | FIXTURE | CONNECTIONS | | | | MAKE | MODEL | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | WASTE | CW | HW | VENT | | | |
| EFD | EMERGENCY FLOOR DRAIN | 3" | - | - | 1-1/2" | JAY R SMITH | 2005 | CAST IRON BODY FLOOR DRAIN WITH ROUND NICKEL BRONZE GRID STRAINER WITH TRAP SEAL |
| EWC-1A | ELECTRIC WATER COOLER (ADA) | 1-1/2" | 1/2" | - | 1-1/2" | ELKAY | EZSTL8 | WALL MOUNTED, BI-LEVEL WATER COOLER WITH ELECTRONIC BOTTLE FILLER, FRONT AND SIDE PUSHBAR, 8 GPH |
| | | | | | | - | - | P-TRAP, FLEXIBLE SUPPLY CONNECTORS WITH ANGLE STOPS AND ESCUTCHEONS. MOUNTING HEIGHT SHOULD BE ADA COMPLIANT. |
| IMB | ICE MAKER BOX | - | 1/2" | - | - | IPS | AB9700 | PLASTIC ICE MAKER OUTLET BOX WITH LEAD-FREE QUARTER TURN SUPPLY VALVE AND INTEGRAL WATER HAMMER ARRESTER |
| LV-1A | COUNTERTOP LAVATORY | 1-1/2" | 1/2" | 1/2" | 1-1/2" | AMERICAN STANDARD | 0476.028 | SELF RIMMING, VITREOUS CHINA DROP-IN LAVATORY, 4" CENTERS, GRID DRAIN |
| | | | | | | MOEN | 8301 | CHROME PLATED, SENSOR OPERATED, BATTERY POWERED, LAVATORY FAUCET, 0.5 GPM |
| | | | | | | - | - | P-TRAP, THERMOSTATIC MIXING VALVE (105°F), FLEXIBLE SUPPLY CONNECTORS WITH ANGLE STOPS AND ESCUTCHEONS |
| | | | | | | - | - | INSULATING KIT INCLUDING MOLDED COVERS FOR STANDARD TAILPIECE, TRAP, STOPS, AND SUPPLIES FOR ADA COMPLIANCE |
| SH-1A | PRIVATE SHOWER (ADA) | 2" | 1/2" | 1/2" | 1-1/2" | FREEDOM SHOWERS | APFQ6233BFF87 | SOLID SURFACE SHOWER WALLS WITH FOLDING SHOWER SEAT. PREFABRICATED 60" X 30" BASE PAN, CENTER DRAIN. COORDINATE WITH ARCHITECTURAL. |
| | | | | | | MOEN | T2191 | SINGLE HANDLE, POLISHED NICKEL CHROME, PRESSURE BALANCING VALVE WITH INTEGRAL STOPS |
| | | | | | | MOEN | 180238 | HAND/WALL SHOWER HEAD WITH 60" FLEXIBLE METAL HOSE, 24" ADJUSTABLE MOUNTING BAR, AND INLINE VACUUM BREAKER |
| | | | | | | JAY R SMITH | 2005 | SHOWER DRAIN APPLICABLE FOR CULTURED MARBLE SHOWER FLOORS, CHROME PLATED ROUND GRID STRAINER, BRONZE BODY, WITH P-TRAP |
| SK-1 | SINK (BREAK ROOM) | 1-1/2" | 1/2" | 1/2" | 1-1/2" | KOHLER | K-5267-1 | 33"X22"X9" STAINLESS STEEL, DROP IN, DOUBLE BOWL SINK |
| | | | | | | DELTA | B3310LF | DOUBLE HANDLE, CHROME PLATED, DECK MOUNTED KITCHEN FAUCET, 1.80GPM |
| | | | | | | KOHLER | K-8801 | SINK STRAINER WITH TAIL PIECE |
| | | | | | | - | - | P-TRAP, FLEXIBLE SUPPLY CONNECTORS WITH ANGLE STOPS AND ESCUTCHEONS |
| 1 SK-2 | SINK (LAB) | 1-1/2" | 1/2" | 1/2" | 1-1/2" | KEWAUNEE | 1021-00-BK | KEMRESIN UNDER-MOUNT TUB, ADA COMPLIANT |
| | | | | | | KEWAUNEE | W-0340-00 | PROVIDE SIX (6) DECK MOUNTED GOOSENECK FAUCET WITH SINGLE LEVER HANDLE |
| | | | | | | - | | P-TRAP, FLEXIBLE SUPPLY CONNECTORS WITH ANGLE STOPS AND ESCUTCHEONS |
| SK-3 | SINK (LAB) | 1-1/2" | 1/2" | 1/2" | 1-1/2" | KEWAUNEE | 1021-00-BK | KEMRESIN UNDER-MOUNT TUB, ADA COMPLIANT |
| | | | | | | KEWAUNEE | W-0340-00 | PROVIDE SINGLE DECK MOUNTED GOOSENECK FAUCET WITH LEVER HANDLES |
| | | | | | | | | P-TRAP, FLEXIBLE SUPPLY CONNECTORS WITH ANGLE STOPS AND ESCUTCHEONS |
| SVS-1 | SERVICE SINK | 3" | 1/2" | 1/2" | 1-1/2" | AMERICAN STANDARD | 7745.811 | FLOOR-SET, ENAMELED CAST IRON SERVICE SINK WITH GRID DRAIN STRAINER, RIM GUARD |
| | | | | | | AMERICAN STANDARD | 8344.012 | EXPOSED YOKE WALL MOUNT, POLISHED CHROME, UTILITY FAUCET WITH INTEGRAL STOPS, PAIL HOOK AND VACUUM BREAKER, 3/4" THREADED HOSE CONNECTION |
| UR-1 | URINAL | 2" | 3/4" | - | 1-1/2" | AMERICAN STANDARD | 6590.001 | WALL MOUNTED, VITREOUS CHINA FLUSH VALVE URINAL, TOP SPUD AND REAR OUTLET |
| | | | | | | MOEN | 8315 | SENSOR OPERATED, BATTERY POWERED, URINAL FLUSH VALVE, 0.5 GPF |
| | | | | | | - | - | FIXTURE CARRIER FOR WALL MOUNTED URINAL |
| UR-1A | URINAL (ADA) | 2" | 3/4" | - | 1-1/2" | AMERICAN STANDARD | 6590.001 | WALL MOUNTED, VITREOUS CHINA FLUSH VALVE URINAL, TOP SPUD AND REAR OUTLET, ADA HEIGHT: MAX 17" FLOOR TO RIM |
| | | | | | | MOEN | 8315 | SENSOR OPERATED, BATTERY POWERED, URINAL FLUSH VALVE, 0.5 GPF |
| | | | | | | - | - | FIXTURE CARRIER FOR WALL MOUNTED URINAL |
| WC-1 | WATER CLOSET | 3" | 1-1/2" | - | 1-1/2" | AMERICAN STANDARD | 3461.001 | FLUSH VALVE VITREOUS CHINA FLOOR MOUNT WATER CLOSET WITH ELONGATED BOWL, TOP SPUD |
| | | | | | | BEMIS | 1955SSCT | OPEN FRONT SEAT, LESS COVER, WITH SELF SUSTAINING HINGES |
| | | | | | | MOEN | 8311 | SENSOR OPERATED, BATTERY POWERED WATER CLOSET FLUSH VALVE, 1.28 GPF |
| WC-1A | WATER CLOSET (ADA) | 3" | 1-1/2" | - | 1-1/2" | AMERICAN STANDARD | 3461.001 | FLUSH VALVE VITREOUS CHINA FLOOR MOUNT WATER CLOSET WITH ELONGATED BOWL, TOP SPUD, ADA HEIGHT: 17"-19" RIM HEIGHT |
| | | | | | | BEMIS | 1955SSCT | OPEN FRONT SEAT, LESS COVER, WITH SELF SUSTAINING HINGES |
| | | | | | | MOEN | 8311 | SENSOR OPERATED, BATTERY POWERED WATER CLOSET FLUSH VALVE, 1.28 GPF |

NOTES:
1. ALL PLUMBING FIXTURE COLORS/FINISHES SHALL BE SELECTED BY ARCHITECT/OWNER.
2. PROVIDE RH OR LH TRIP LEVER FOR ADA WATER CLOSETS AS REQUIRED FOR GRAB BAR CONFIGURATION.
3. MODEL NUMBERS ARE PROVIDED FOR REFERENCE ONLY. COORDINATE FIXTURE TYPE AND DESCRIPTION WITH BASIS OF DESIGN MANUFACTURER.

GMC
Goodwyn Mills Cawood, LLC
11 North Water Street, Suite 15250
Mobile, AL 36602
T 251.460.4006
GMCNETWORK.COM

ISSUE | DATE
1 | 90% REVIEW SET | 09/1/26
Addendum 2 | 09/29/2026

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CHECKED BY: MAP

LOW HEAD PUMP BUILDING RENOVATIONS
4800 Moffett Rd,
Mobile, AL 36618

GMC AMOB230011

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 39069
PROFESSIONAL
09-29-2026
ENGINEER
MICHAEL A. PRUETT
Michael A. Pruett 39069

LEGENDS, NOTES & ABBREVIATIONS

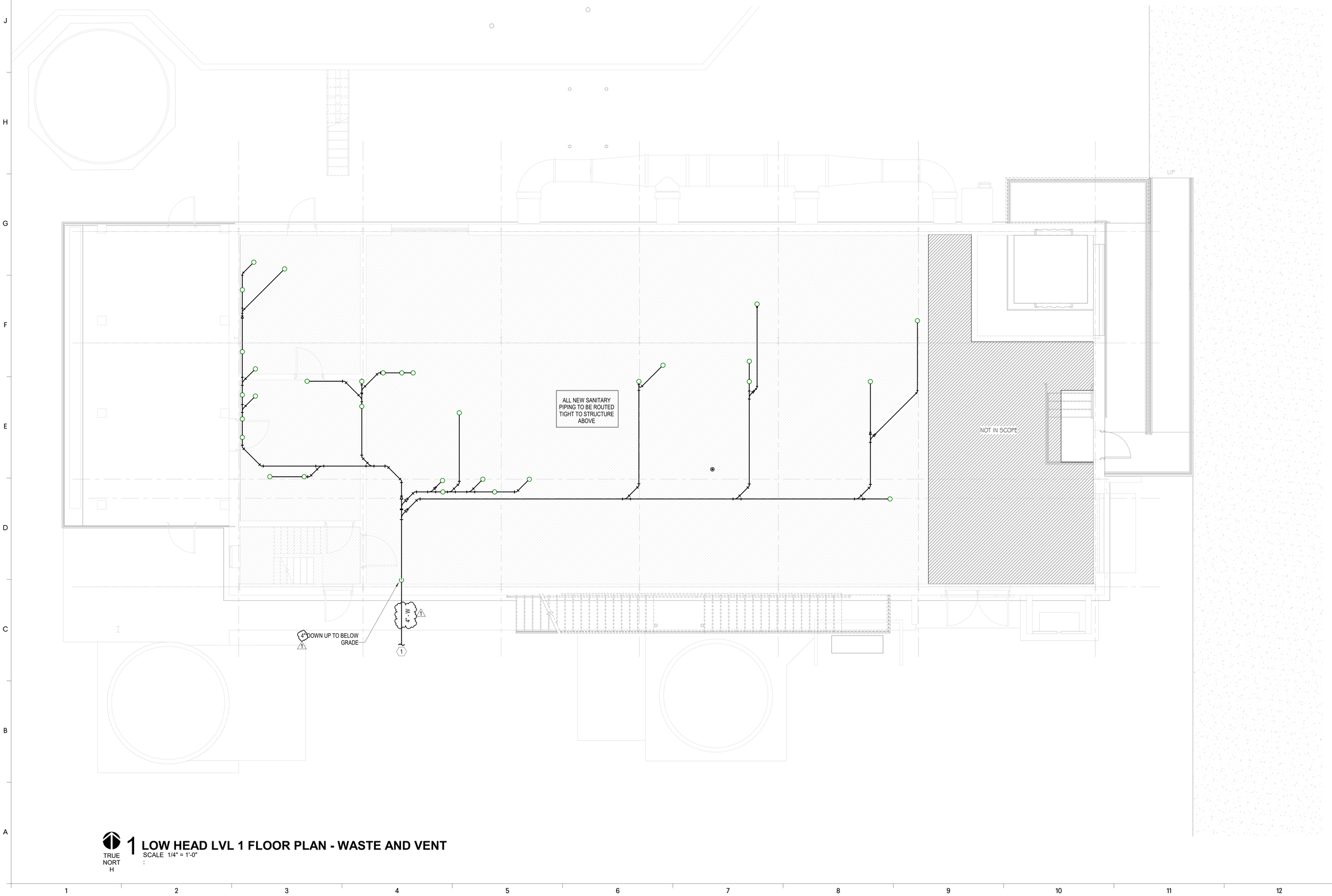
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dell consulting
MEP Engineering
Alabama Certificate Number: CA-4146-E
129 E. Government Street
Pensacola, FL 32502
P: 850-332-5687 F:850-332-6829
Dell Consulting project:24-071

## SHEET NOTES

| | |
|---|---|
| 1 | CONNECT TO UNDERGROUND PIPING FIVE FEET OUTSIDE OF BUILDING FOOTPRINT. COORDINATE CONNECTION AND DEPTH OF COVER WITH CIVIL. |




TRUE NORTH

1 **LOW HEAD LVL 1 FLOOR PLAN - WASTE AND VENT**
SCALE 1/4" = 1'-0"

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**LOW HEAD PUMP BUILDING RENOVATIONS**
4800 Moffett Rd,
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GMC AMOB230011

ALABAMA LICENSED No. 39069 PROFESSIONAL ENGINEER MICHAEL A. PRIVETT 09-29-2026

Michael A. Privett 39069

**LOW HEAD LVL 1 FLOOR PLAN - WASTE AND VENT**

P1.11

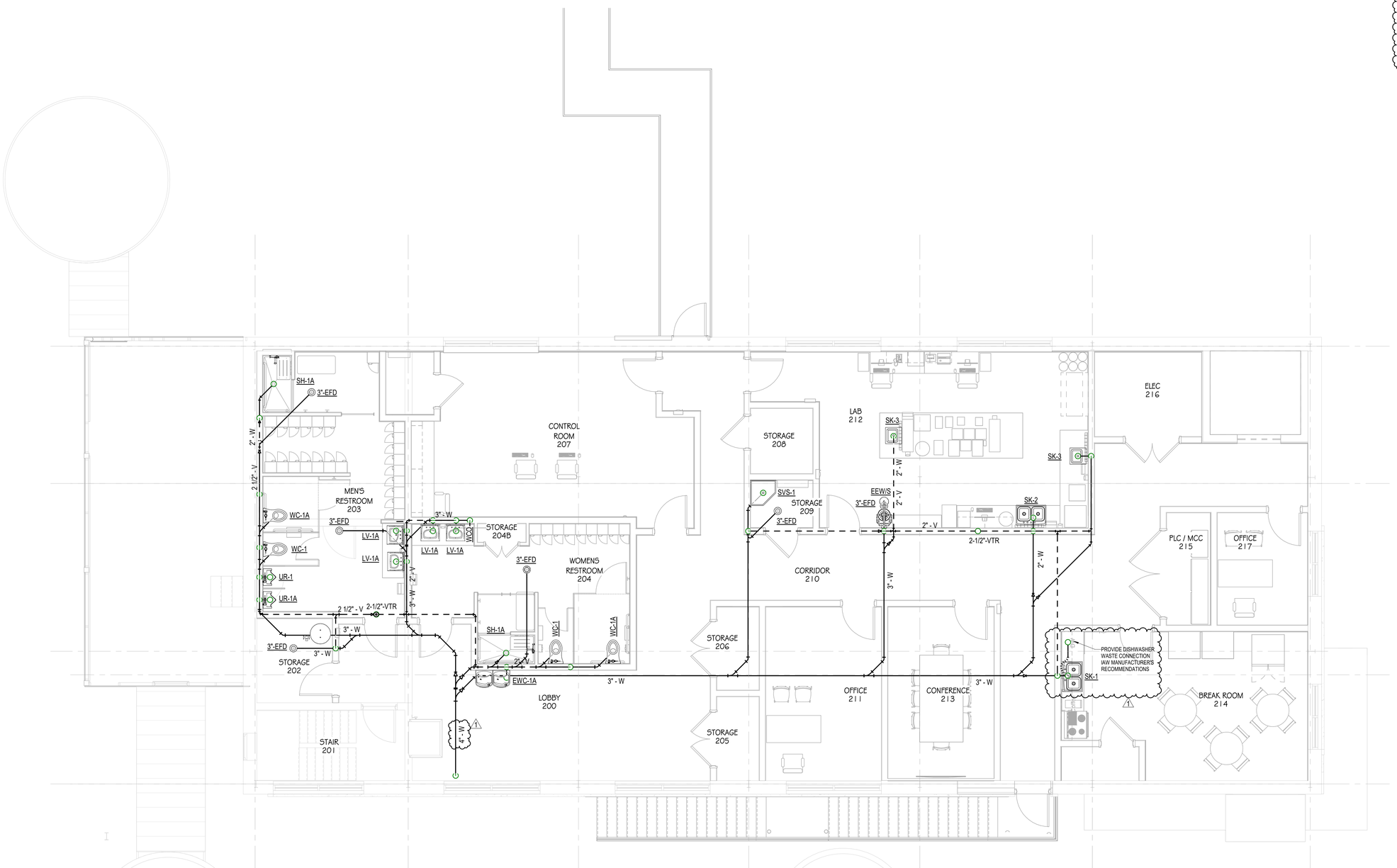
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Dell Consulting project:24-071

## GENERAL NOTES

1. VENT THROUGH ROOF SHALL BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR..

2. ALL PLUMBING PIPING SHALL BE CONCEALED WITHIN WALLS AND ABOVE CEILINGS.




TRUE NORTH

## 1 LOW HEAD LVL 2 FLOOR PLAN - WASTE AND VENT

SCALE 1/4" = 1'-0"

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**LOW HEAD PUMP BUILDING RENOVATIONS**
4800 Moffett Rd,
Mobile, AL 36618

GMC AMOB230011

ALABAMA LICENSED No. 39069 PROFESSIONAL ENGINEER MICHAEL A. PRUETT
09-24-2026
Michael A. Pruett 39069

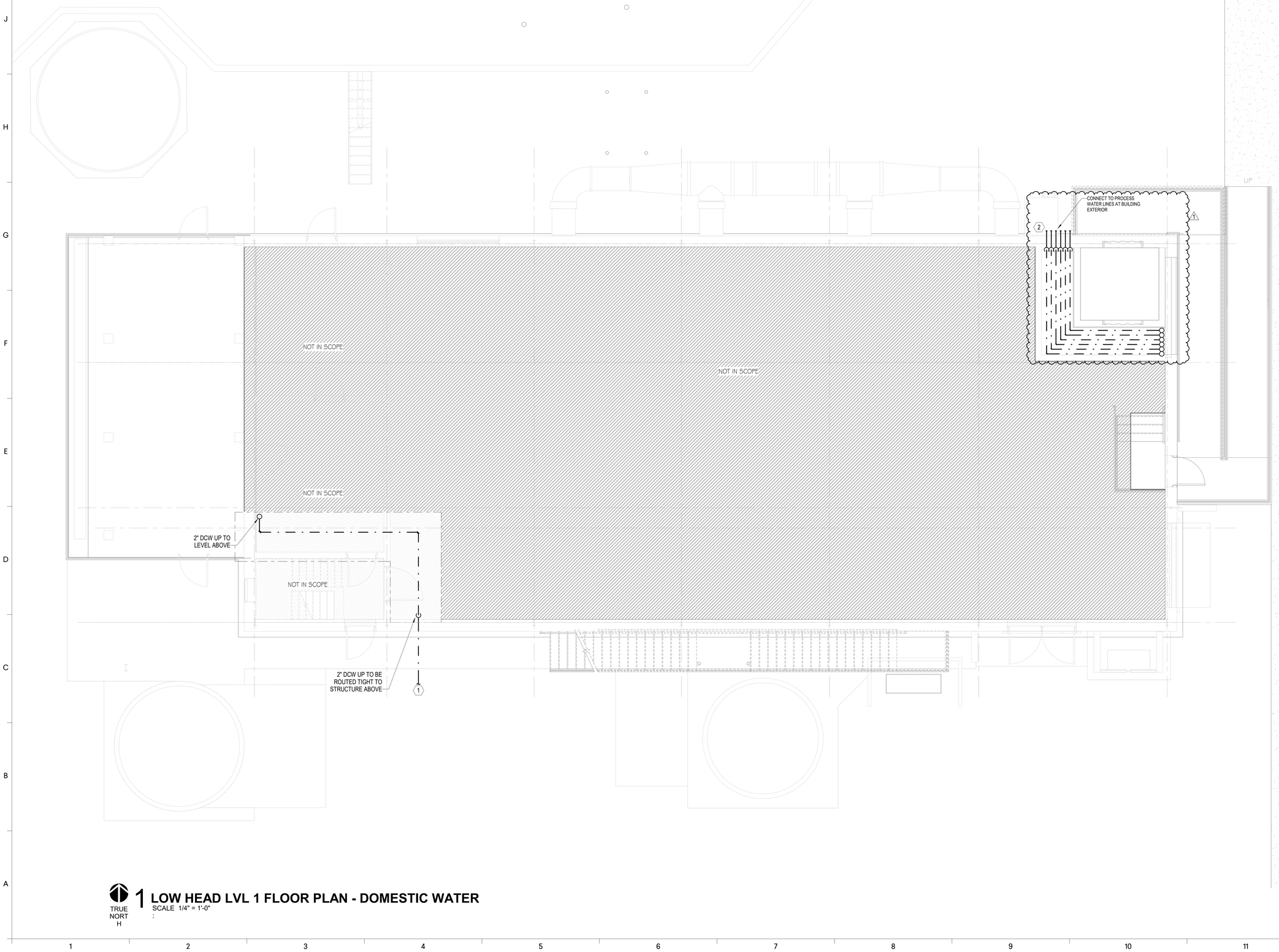
**LOW HEAD LVL 2 FLOOR PLAN - WASTE AND VENT**

P1.12

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Pensacola, FL 32502
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Dell Consulting project:24-071

## SHEET NOTES

| | |
|---|---|
| 1 | CONNECT TO SITE PLUMBING PIPING 5'-0" OUTSIDE OF BUILDING FOOTPRINT. COORDINATE THE LOCATION AND DEPTH OF UNDERGROUND PIPING WITH CIVIL. PROVIDE MINIMUM 30" DEPTH OF COVER. |
| 2 | PLUMBING CONTRACTOR SHALL PROVIDE SIX (6) 3/4" PVC SAMPLE LINES. ROUTE UP TIGHT TO STRUCTURE AND UP TO SECOND FLOOR AS SHOWN. SUPPORT FROM STRUCTURE AS SPECIFIED. |




TRUE NORTH

1 **LOW HEAD LVL 1 FLOOR PLAN - DOMESTIC WATER**
SCALE 1/4" = 1'-0"

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**LOW HEAD PUMP BUILDING RENOVATIONS**
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Mobile, AL 36618

GMC AMOB230011

ALABAMA LICENSED No. 39069 PROFESSIONAL ENGINEER MICHAEL A. PRUETT 09-29-2026

Michael A. Pruett 39069

**LOW HEAD LVL 1 FLOOR PLAN - DOMESTIC WATER**

P1.21

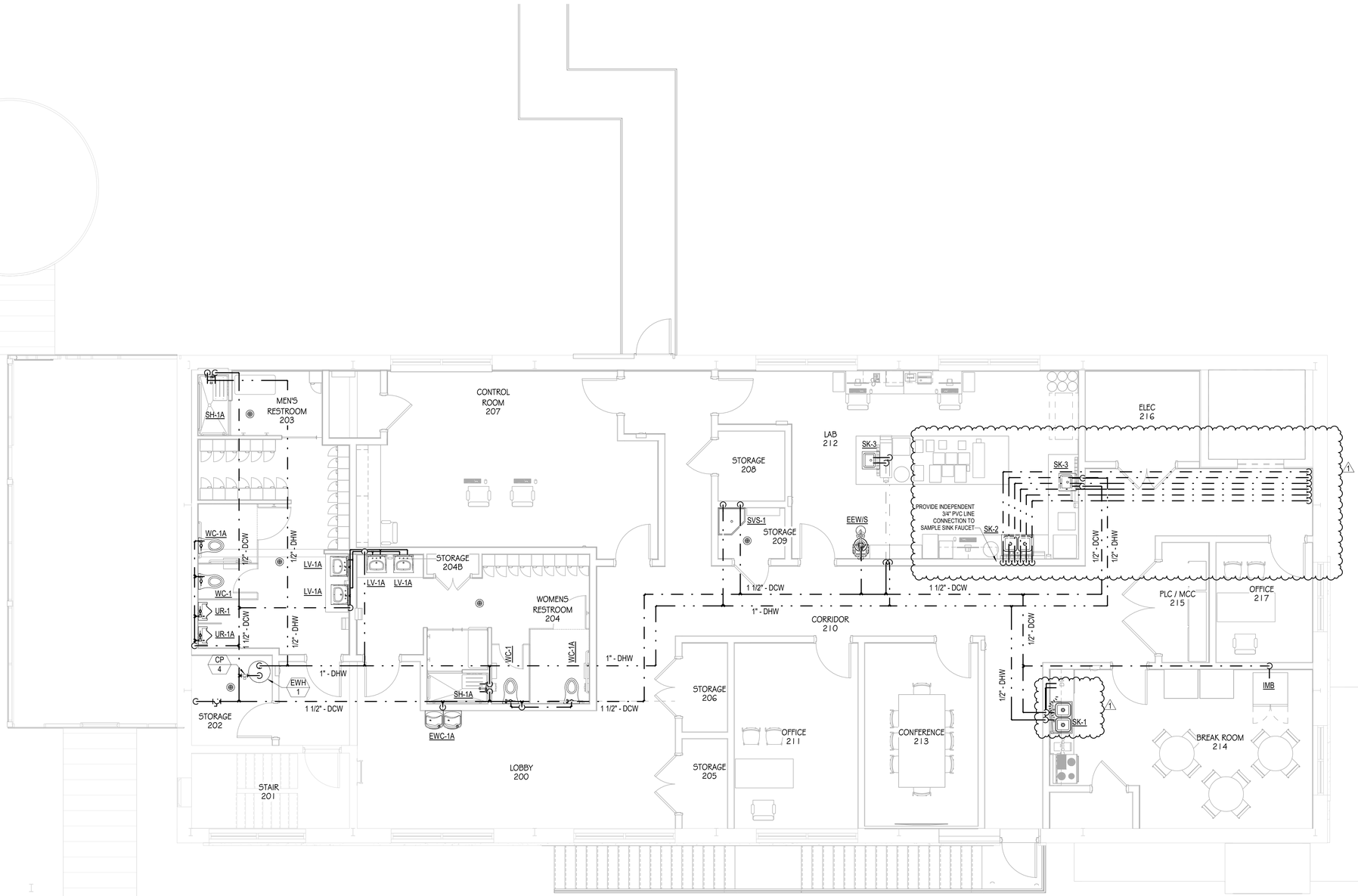
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Pensacola, FL 32502
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Dell Consulting project:24-071

## GENERAL NOTES

1. NO PIPING SHALL BE LOCATED ROUTED OVER ELECTRICAL OR TELECOMMUNICATIONS EQUIPMENT OR WITHIN SERVICE CLEARANCE AS DEFINED BY THE NATIONAL ELECTRIC CODE (NEC).

2. VALVES LOCATED ABOVE CEILING SHALL BE MADE EASILY ACCESSIBLE. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS IN GYP. BOARD CEILINGS.




TRUE NORTH

1 **LOW HEAD LVL 2 FLOOR PLAN - DOMESTIC WATER**
SCALE 1/4" = 1'-0"

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**LOW HEAD PUMP BUILDING RENOVATIONS**
4800 Moffett Rd,
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ALABAMA LICENSED No. 39069 PROFESSIONAL 09-29-2026 ENGINEER MICHAEL A. PRUETT
Michael A. Pruett 39069

**LOW HEAD LVL 2 FLOOR PLAN - DOMESTIC WATER**

P1.22

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Dell Consulting project 24-071

**RISER DIAGAMS**

**LOW HEAD PUMP BUILDING RENOVATIONS**
4800 Moffett Rd.
Mobile, AL 36618

GMC AMOB23001T



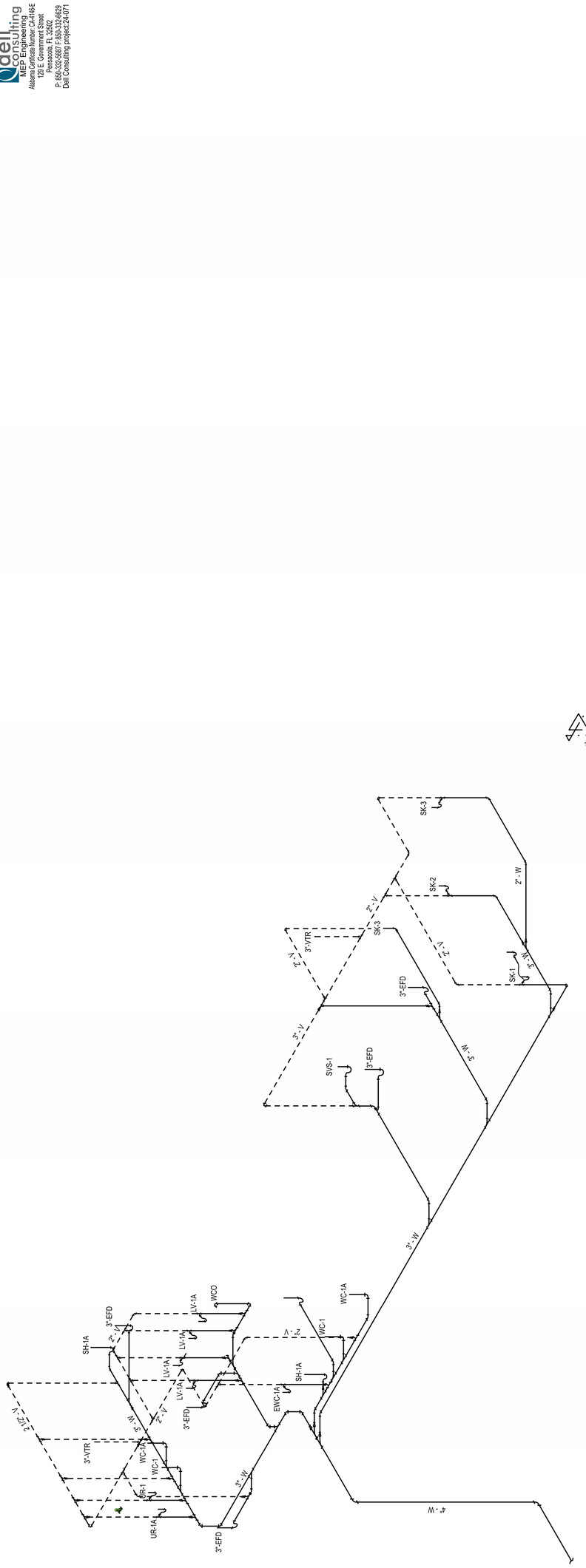

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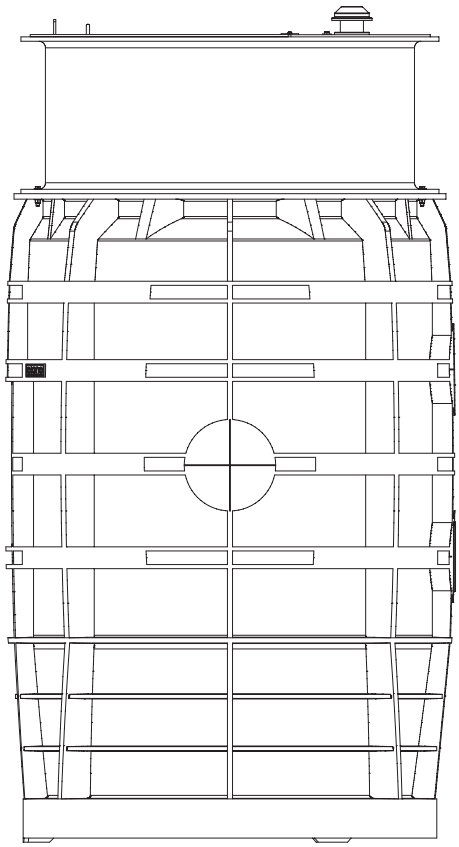



## 2 DOMESTIC WATER RISER DIAGRAM
SCALE : :

## 1 WASTE & VENT RISER DIAGRAM
SCALE : :

E/ONE EXTREME SERIES

# WH484



## General Features

The model WH484 grinder pump station is a complete unit that includes: four grinder pumps, check valve, polyethylene tank, controls, and alarm panel. Designed for higher flow applications where local codes dictate higher storage requirements. The lower portion of the tank has a smaller diameter, tapered down to a dish-shaped bottom. The large tank access opening easily accommodates installation of the grinder pumps and equipment.

- Rated for flows of 7000 gpd (26,498 lpd)
- 486 gallons (1802 liters) of capacity
- Standard outdoor heights range from 75 inches to 122 inches

The WH484 has a cable that connects the motor controls to the level controls through watertight penetrations.

## Operational Information

*Motor*
1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

*Inlet Connections*
4-inch inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

*Discharge Connections*
Pump discharge terminates in 1.25-inch NPT female thread. Can easily be adapted to 1.25-inch PVC pipe or any other material required by local codes.

*Discharge*
15 gpm at 0 psig (0.95 lps at 0 m)
11 gpm at 40 psig (0.69 lps at 28 m)
7.8 gpm at 80 psig (0.49 lps at 56 m)

## Accessories

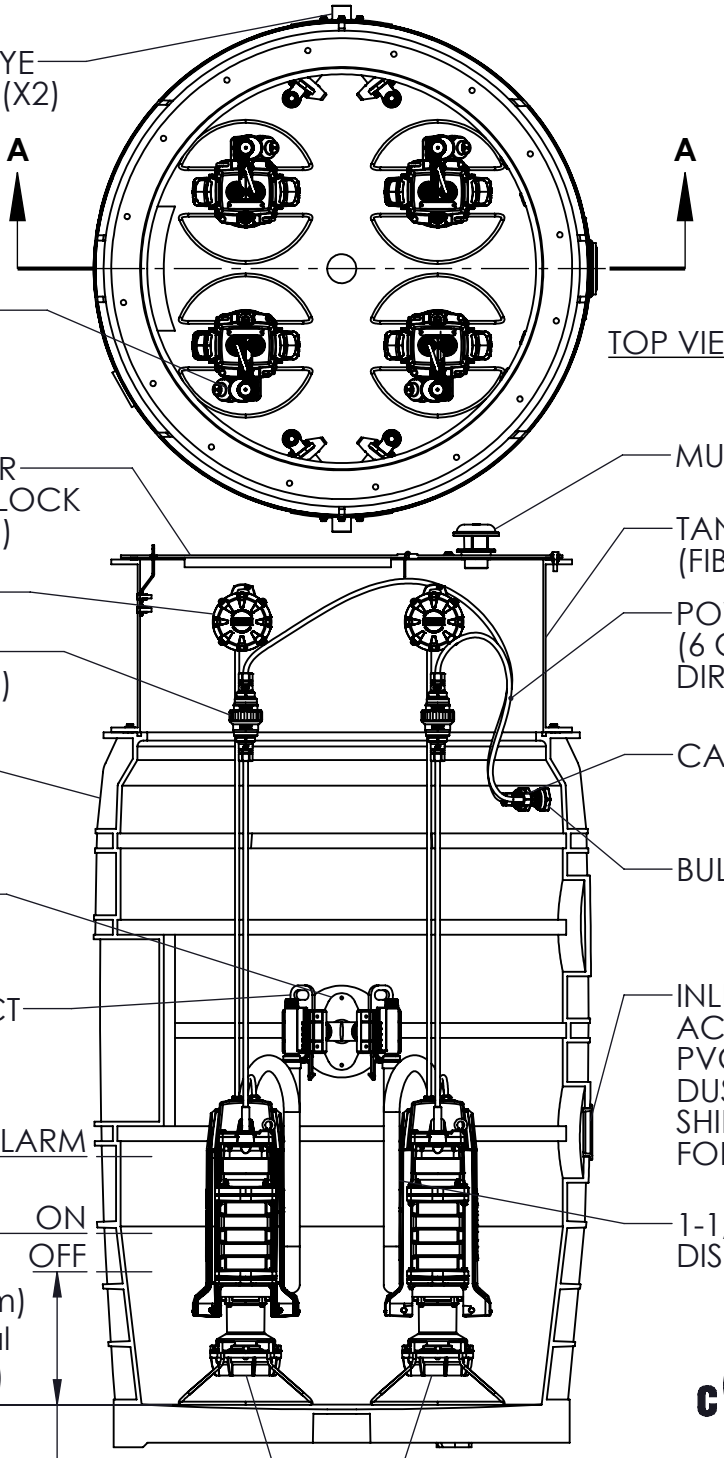
E/One requires that the Uni-Lateral, E/One's own stainless steel check valve, be installed between the grinder pump station and the street main for added protection against backflow.

Alarm panels are available with a variety of options, from basic monitoring to advanced notice of service requirements.

The Remote Sentry is ideal for installations where the alarm panel may be hidden from view.

NA0215P02

# WH484




CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

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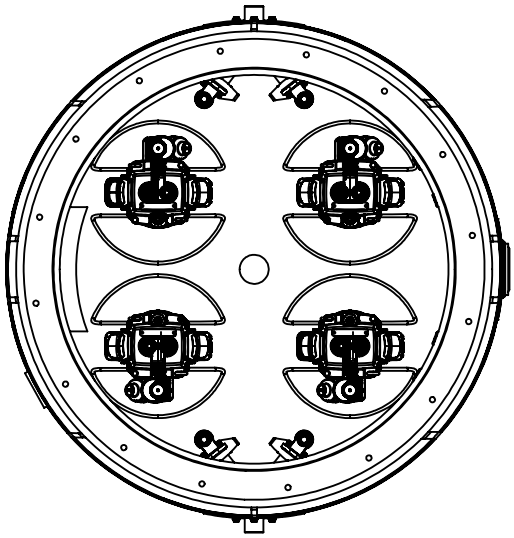
**SEWER SYSTEMS**

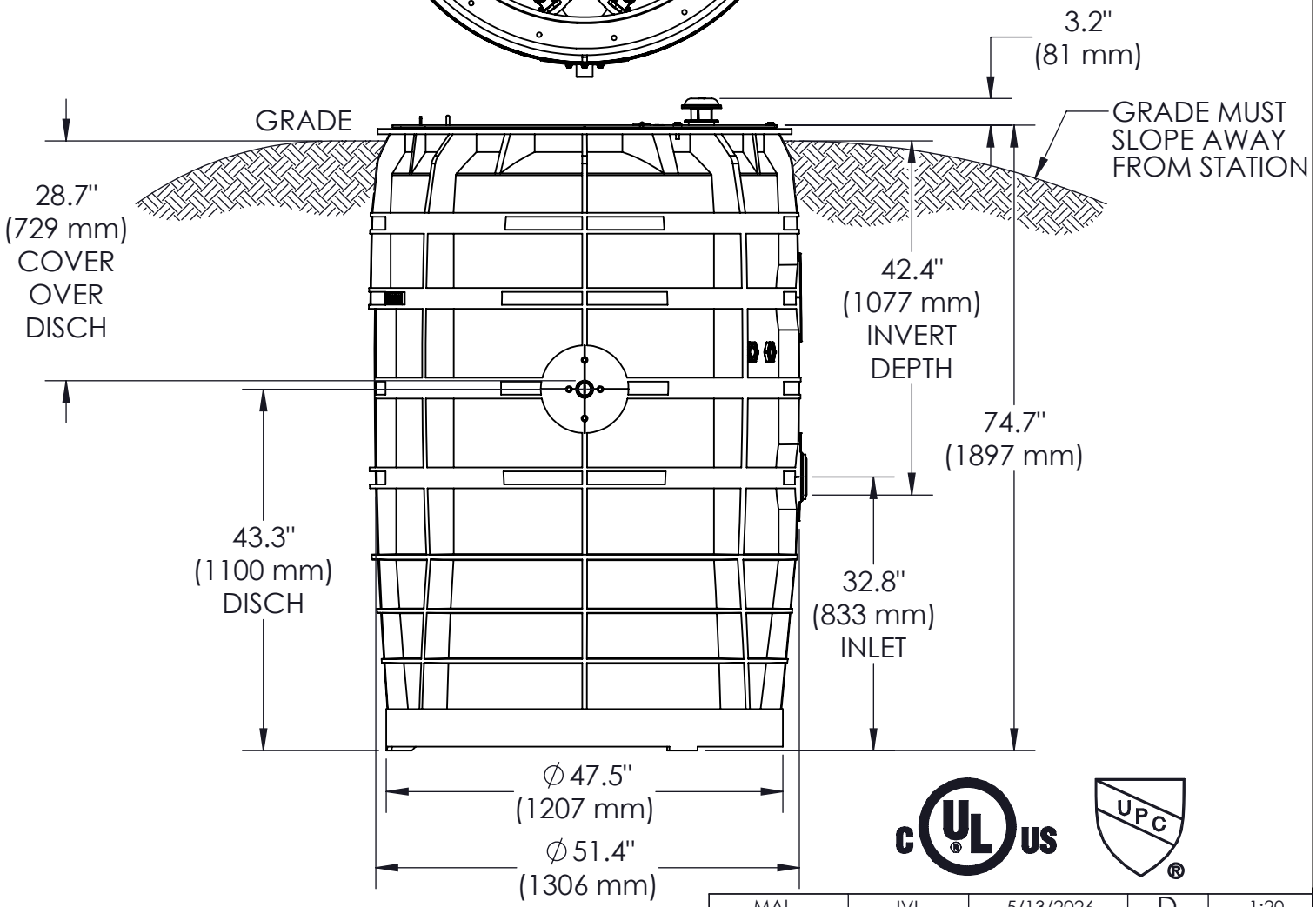
## MODEL WH484
DETAIL SHEET, QUAD

## NA0215P02

NA0215P03

# WH484-75






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| DR BY | CHK'D | DATE | ISSUE | SCALE |

**SEWER SYSTEMS**

CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

DISCHARGE: 1-1/4" NPT, SS (X2)

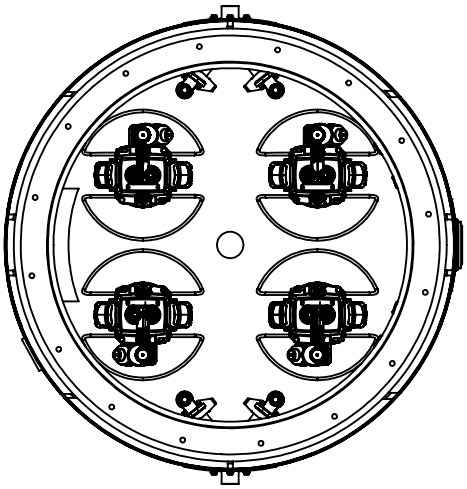
INLET: EPDM GROMMET FOR 4" DWV PIPE (STANDARD)

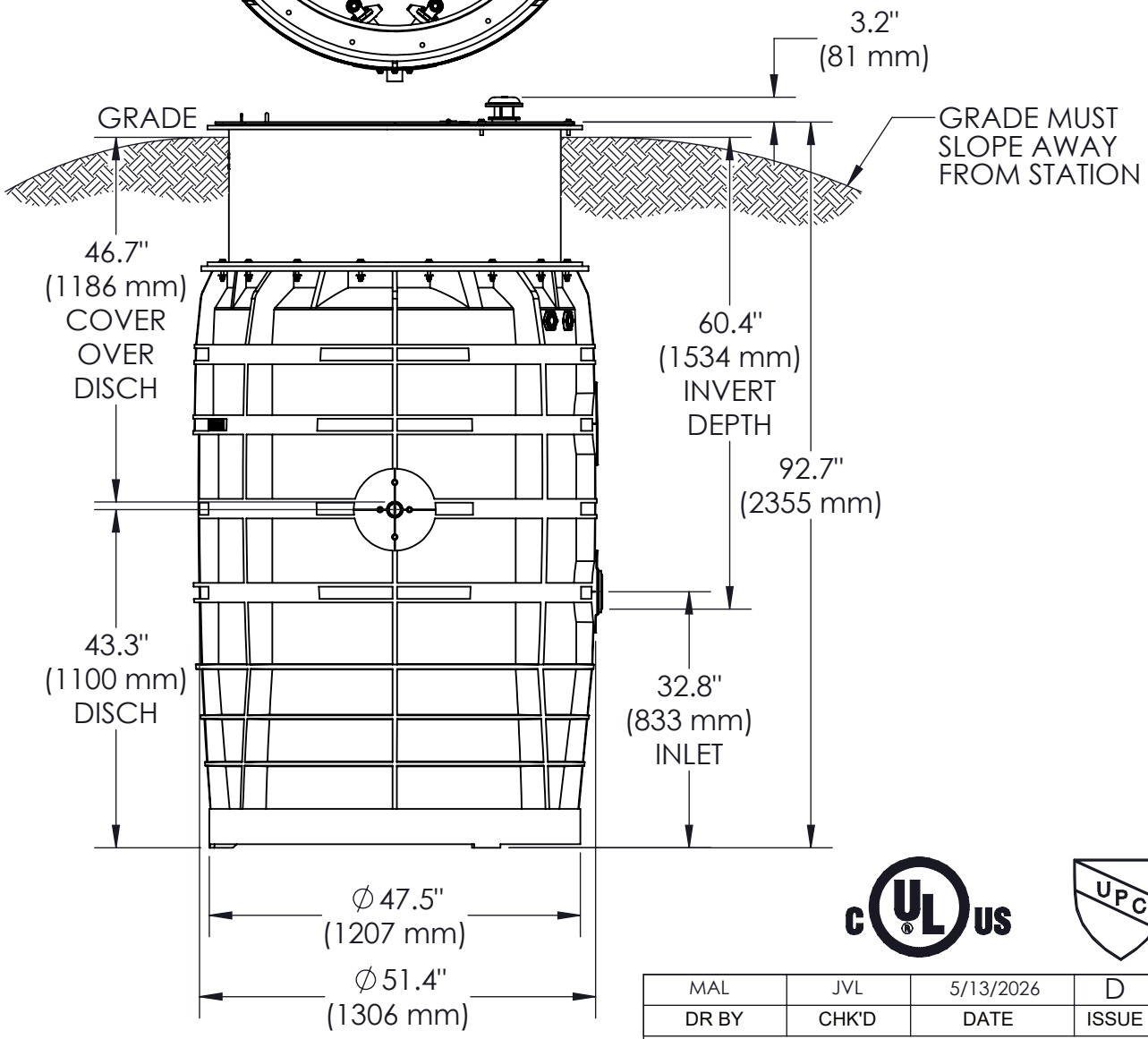
MODEL WH484-75

NA0215P03

NA0215P04

# WH484-92






CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

DISCHARGE: 1-1/4" NPT, SS (X2)

INLET: EPDM GROMMET FOR 4" DWV PIPE
(STANDARD)

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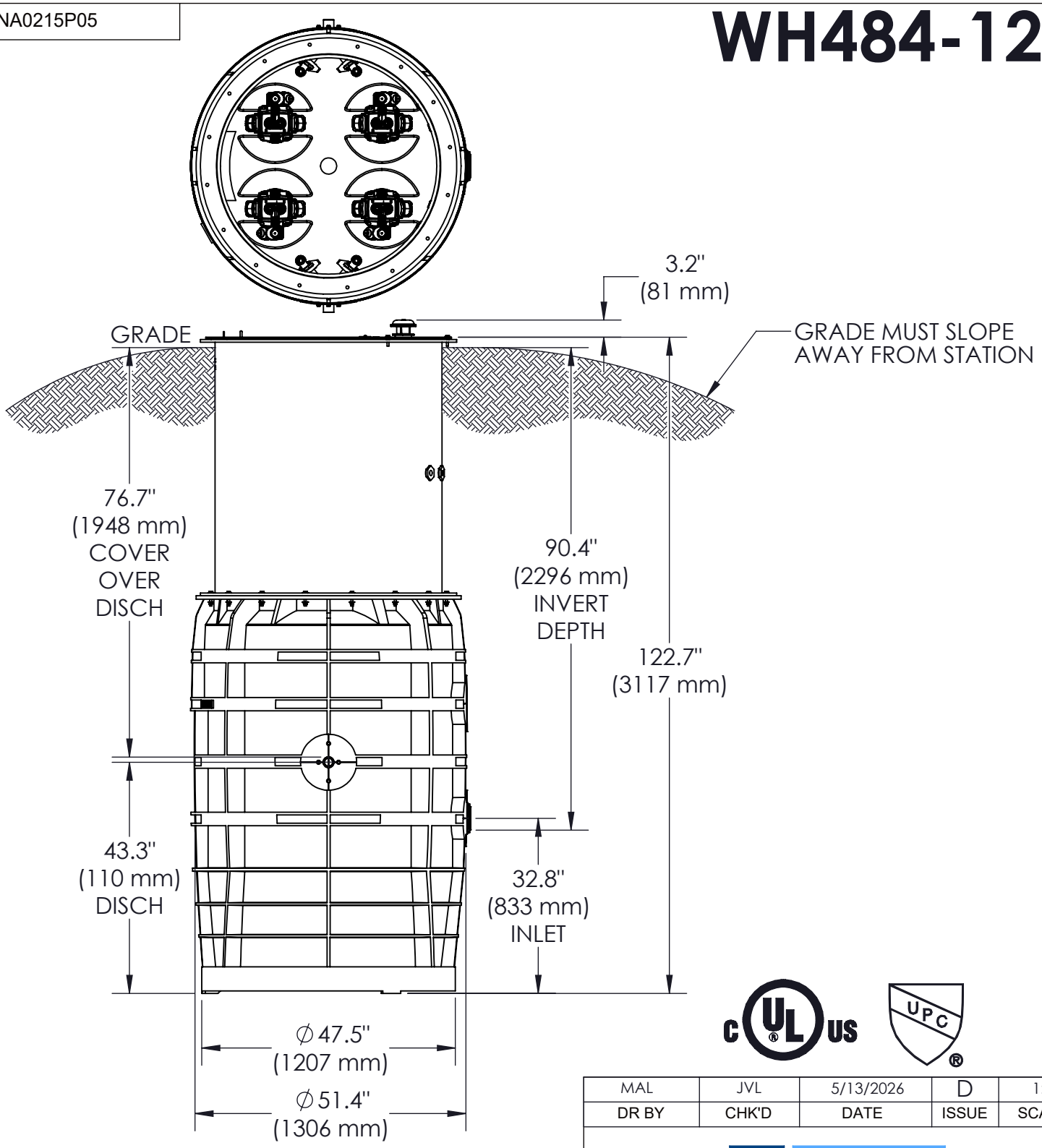
**SEWER SYSTEMS**

MODEL WH484-92

NA0215P04

NA0215P05

# WH484-122




CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

DISCHARGE: 1-1/4" NPT, SS (X2)

INLET: EPDM GROMMET FOR 4" DWV PIPE
(STANDARD)

| MAL | JVL | 5/13/2026 | D | 1:26 |
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**SEWER SYSTEMS**

MODEL WH484-122

NA0215P05