

North Wake Landfill Household Hazardous Waste Rebuild

Esse Architects Project #2405 | Owner ID: RFB #26-063

Addendum No. 2

June 30, 2026

TO: ALL PRIME BIDDERS OF RECORD

This Addendum forms a part of the Contract Documents and modifies the original Project Manual and Construction Documents dated May 18, 2026. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification. This Addendum form consists of four (4) pages and attachments as described in this form. All documents are distributed digitally.

DRAWINGS

<u>Item No.</u>	<u>Description</u>
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| 1. | Sheet C1.00 – DEMOLITION PLAN – Replace sheet with the updated sheet attached. <ul style="list-style-type: none">a. Dimensions have been added to show the amount of concrete to be protected near the retaining wall.b. Removal of wood light poles is shown.c. Protection of existing bollards is shown. |
| 2. | Sheet P001: Delete the entire sheet and replace with attached sheet P001. |
| 3. | Sheet P100: Delete the entire sheet and replace with attached sheet P100. |
| 4. | Sheet E001, Power Riser Diagram Notes, Note #4: Delete the following sentence: “Provide additional spare conduit as required by power company.” |

SPECIFICATIONS

<u>Item No.</u>	<u>Description</u>
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| 5. | Section 13 3420 – Pre-Engineered Structures – Replace this section in its entirety. Wording in this section has been revised to clarify the Contractor’s responsibilities regarding the pre-engineered structures and to add an alarm. |
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CLARIFICATIONS

<u>Item No.</u>	<u>Description</u>
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| 6. | Question Received: "Is a temporary office trailer required for this project?"
Response: See Addendum 1 response. A temporary office trailer is not required for this project. It was discussed in the Pre-Bid and in Section 01 5000 that the County's Field Office Building will accommodate project meetings. |
| 7. | Question Received: "Referencing A101, can more details be provided for the Existing Attendant Hut repairs or will it just be the flooring and wood base?"
Response: Per the bid documents, only the flooring and wood quarter round base trim will be replaced. See attached floor plan and photos. |
| 8. | Question Received: "Referencing A101, is there an existing floor plan of the Attendant Hut you can provide?"
Response: See attached floor plan of existing attendant hut and photos. |
| 9. | Question Received: "Referencing Spec Section 01 2300, Alternate No. 1, 2, and 3 call for the base bid to include the infrastructure for all chemical storage buildings, including connection to container load center in the base bid. Are there other items needed for the infrastructure for these chemical storage buildings that are not listed or shown on the plans?"
Response: Section 13 3420 includes a list of items to be supplied or completed by the contractor. |
| 10. | Question Received: "Referencing P100, the note references the site storing hazardous/contaminated materials being discharged to the sump pit, and the owner will have it cleaned and sanitized by a hazardous environmental cleaning service on a regular basis. Please confirm the owner will be responsible for any hazmat disposal/cleaning during construction."
Response: The sump pits are being constructed as part of this project, and the Owner is not collecting waste at this site until after project completion. There will be no need for the Owner to clean out the sump pits or dispose of any materials during construction. After construction, the Owner will take responsibility for cleaning the sump pits. |
| 11. | Question Received: "Referencing C3.0 and P100, Work Note 1 calls for routing sanitary drain piping from the sink to the sump pit, but no sanitation line is shown on the site utilities plan. Can more information be provided for this sanitation line?"
Response: The sanitary line will terminate at the sump pit. There is no sanitary line leaving this area. |
| 12. | Question Received: "Referencing E001 & E100, Power Riser Diagram note 4 references providing additional spare conduit as required by power company, and E100 shows providing (2) empty sleeves with caps for future use. Will any additional spare conduits be required or just the two shown?"
Response: No additional spare conduits beyond the two shown are required. |
| 13. | Question Received: "Are any Fire Alarm or Sprinkler systems required for the chemical storage building alternates?"
Response: Alarms and dry fire suppression are built into the pre-manufactured chemical storage buildings. See Section 13 3420 Pre-Engineered Structures. |

14. Question Received: "Is there a concrete disposal on-site to take the concrete being removed?"
Response: No.
15. Question Received: "Who is responsible to remove the existing materials and equipment presently on site?"
Response: The Owner will remove the existing materials and equipment presently on site before construction begins.
16. Question Received: "Can we get power off the existing service, or do we need to provide a complete service for construction?"
Response: See Addendum 1 response, Item 4.
17. Question Received: "You show on the demo plans leaving a perimeter of concrete behind the retaining wall. There are no dimensions for the width of concrete to leave behind the retaining wall. Can you provide the width of this apron to remain behind the retaining wall?"
Response: Dimensions have been added to the demolition plan to show the amount of concrete to be protected near the retaining wall.
18. Question Received: "Are we allowed to use the existing electrical service on-site or do we have to provide a service separated?"
Response: See Addendum 1 response, Item 4.
19. Question Received: "Do you know how thick the existing concrete to be removed is?"
Response: Refer to the Geotechnical Report which states "The borings generally encountered 6 to 7 inches of concrete at the surface underlain by 2 to 3 inches of crushed stone aggregate."
20. Question Received: "Do we have a water source in the in the area to use during construction?"
Response: See Addendum 1 response. There is an existing water line on site that can be tied into.
21. Question Received: "Minor but who removes the materials out of the control building to place the new floor?"
Response: The Owner will remove the materials out of the attendant office building prior to the start of construction.
22. Question Received: "Does the existing handrail on site remain in place?"
Response: The retaining wall and all attached structures (including handrails) are to be protected in place.
23. Question Received: "Can we saw the pipe bollards flush with the existing concrete and smooth surface to match existing concrete rather than crack the surrounding concrete?"
Response: The demolition plan has been revised to show the existing bollards as being protected in place, and proposed bollards shall be removed from the scope of the project.

ATTACHMENTS

- 24. Revised Section 13 3420 – Pre-Engineered Structures
- 25. Revised C1.00 Demolition Plan
- 26. Revised P001 Plumbing Legend and Schedules
- 27. Revised P100 Plumbing Site Plan
- 28. Attendant Hut Floor Plan and Photos of floor

END OF ADDENDUM NUMBER TWO



SECTION 13 3420 – PRE-ENGINEERED STRUCTURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Prefabricated and pre-engineered and FM Approved (4-hour bi-directional fire rated hazardous materials storage building).

1.2 RELATED SECTIONS

- A. Site Construction and Preparation- by others
- B. Concrete or other mounting pad materials details- by others (typical pad drawing below)
- C. Work completed by others
 - 1. Connection of building to Electrical power
 - 2. Connection of building to Earth Ground
- D. Items and labor provided by Purchaser prior to delivery.
 - 1. MSDS describing the hazardous materials to be housed within the building
 - 2. Coordination and delivery of the final approval(s) necessary from the Local Authority(ies) Having Jurisdiction (LAHJ) to place the building in the jurisdiction.

1.3 REFERENCES

- | | | |
|----|-------------|---|
| A. | UL | 263 Fire Tests for Building Construction and Materials |
| B. | FM | Class 6049-Flammable and Combustible Liquid Storage Buildings |
| C. | IFC | International Fire Code |
| D. | IBC | International Building Code Current Edition |
| E. | US EPA | 40 CFR |
| F. | OSHA | 29 CFR 1910 |
| G. | NFPA 30 | 2000 Edition Flammable and Combustible Liquids Code |
| H. | NFPA 704 | 2001 Edition Standard System for the Identification of the Hazards of Materials for |
| I. | ASCE 7 | Minimum Design Loads For Buildings And Other Structures |
| J. | ASTM A-500B | Structural Steel Tube |
| K. | UL/CSA | UL/CSA Listed Electrical Components |
| L. | NEC | National Electrical Code (NFPA 70) |
| M. | DOT | 49 CFR |

1.4 SUBMITTALS

- A. Submit under provisions of Division 1.
- B. Product Data:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods. (General Information)
- C. Selection Samples: One color chart representing manufacturer's full range of available colors and patterns. Physical color samples for selection.
- D. Shop Drawings: Complete layout and installation drawings for each container.

1. Support reactions and anchorage forces at the hold down locations shall be included as part of the submittal.
2. The contractor shall also submit anchorage components capable of supporting the design reactions provided by the container building supplier.

1.5 QUALITY ASSURANCE

- A. Regulatory Requirements: The Design of the prefabricated hazmat buildings with incorporated equipment shall comply with the Referenced codes and standards above.
- B. Supplier Qualifications
 1. Experience. The Supplier shall provide and demonstrate evidence of their experience and knowledge of the responsible containment of hazardous flammable materials with more than 20 continuous years in the Hazmat storage business.
- C. Business Organization
 1. The Supplier shall provide complete control over the design and manufacturing capabilities by employing its own.
 - a) Manufacturing operation to provide raw material and commercial component purchasing, inventory and production.
 - b) Production planners
 - c) Engineering Personnel
 - d) Direct labor personnel, and
 2. The Supplier will have local manufacturer's representatives who are familiar with the products, their specification, and their installation. Representative will be available for onsite assistance during all portions of the project.
- D. Product Liability Insurance
 1. The Supplier shall provide proof of complete product liability insurance as a requirement of Insurance Risk Management.
- E. Factory Inspection, Testing, and Certification
 1. The supplier shall test for wiring dielectric strength per NEC Article 550 Mobile Homes, Manufactured Homes, and Mobile Home Parks, Section 550.17 (A) Testing. "Dielectric Strength Test"
 2. The supplier shall test for wiring continuity per NEC Article 550 Mobile Homes, Manufactured Homes, and Mobile Home Parks, Section 550.17 (B) Testing. "Continuity and Operational Tests and Polarity Checks".

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Order Acknowledgments
 1. The Supplier shall provide an acknowledgment of order indicating credit approval within 5 days of receipt of purchase order.
- B. Shipping Acknowledgments
 1. The Supplier shall provide notification of the intention to ship the building at least 48 hours before actually shipping the product to provide adequate time for delivery arrangements to be made, for preparation for customer site receiving, and for off-loading and setting in place.

PART 2 - PRODUCT

2.1 MANUFACTURER

- A. Basis of Design: Pre-engineered structures are based on Models SL 3311 and SL2311 as manufactured by US Chemical Storage, headquartered at 1806 River Street, Hwy 268 West, Wilkesboro, NC 28697. Subject to compliance with requirements, provide the named products or comparable products submitted and approved in accordance with Division 1 and Div 13 requirements.
- B. The design is based on the US Chemical "SL" Series, a prefabricated and pre-engineered FM Approved 4 Hour bidirectional fire rated hazardous materials storage building.

2.2 DESCRIPTIONS

- A. The hazardous materials storage building shall be a factory built, relocatable chemical storage and containment structure.
- B. The building shall be designed as a separate, detached structure intended for the storage and/or dispensing of flammable and combustible liquids and other hazardous materials, chemicals and wastes.
- C. Floor Layout: Steel Floor Grating.
- D. Materials
 - 1. All materials used shall be new and free from defects.
 - 2. The materials shall conform to the standards specified herein and be labeled as required.
 - 3. Materials shall be installed in accordance with their intended purpose and not in any manner that will reduce strength or violate an approval or listing.
- E. Overall Building Dimensions
 - 1. Single Compartment Outside: 21'L X 11'W X 9'9"H Nominal Dimension.
 - 2. Two Compartment Outside: 21'L X 11'W X 9'9"H Nominal Dimension.
 - 3. Three Compartment Outside: 33'L X 11'W X 9'9"H Nominal Dimension.
- F. Structural
 - 1. The building shall be designed and constructed in accordance with the results of professional structural analysis and good engineering practice to satisfy the loads and specifications listed in this section. a) Loads. The building shall be designed to withstand the following loads (standard loads, additional load available).
 - 1) Roof Live Load (snow).....40 psf
 - 2) Wind Live Load120mph
 - 3) Floor Live Load250 psf
 - 4) Seismic LoadCategory C
- G. Walls System
 - 1. Four hour bi-directional fire rated, weatherproof construction that meets or exceeds UL 263 and ASTM E-119. Fabricated from 14ga galvanized steel proprietary studs placed 24-inch on center. Building perimeter shall have

6"x4"x1/8" steel tubing minimum below and above wall studs. The corner studs and door frame opening studs shall be minimum 4"x3"x1/8". Framework connected by welding. Construction consists of multiple layers of UL Listed gypsum wallboard encased between Galvanneal steel sheets on interior and exterior faces for maximum durability. Gypsum wall board layers are offset with overlapping joints.

2. Wall Openings:

- a.) All wall openings for natural or mechanical ventilation shall be protected with a UL Classified 3-hour fire damper.
- b.) All wall penetrations for fire protection equipment- electrical conduit or other types of piping- shall be sealed and finished with UL Classified fire barrier caulk

H. Door(s)

- 1. Door(s): 3rd party classified and labeled, 3-hour fire-rated 60" by 80" double leaf steel door, located on front of building equipped with a UL listed self door closer, steel latch guard, surface slide bolt, positive pressure threshold and an exterior UL listed Grade 2 keyed lever set. Complete with UL listed panic hardware set.

I. Roof Construction

- 1. Two (2) hour Per IBC Section 722, fire rated Class A flame spread rating. Wind uplift exceeds UL I-60 and is constructed of 1 hour fire rated, weatherproof construction. Exterior roof sheets are continuously welded to roof supports at each seam. Roof Structural System is fabricated from 4"x2"x1/8" structural tubing on 24" centers, welded to roof supports at each seam. 12 ga. HRS steel roof with multiple layers of UL Listed fire resistant gypsum wall board lined on the interior with galvanized steel sheets on interior. Assembly meets or exceeds UL 263 and ASTM-E119. Roof is sloped to facilitate runoff and door(s) are equipped with rain shields on exterior. With a minimum R13 insulation.
- 2. The roof deck shall be weatherproof.
- 3. The roof support system shall be designed to withstand the loads listed in the Structural section.

J. Roof/Ceiling Construction: The roof/ceiling combination shall be permanently attached to exterior walls.

K. Secondary Containment Sump

- 1. The sump shall provide FM required containment capacity equal at least 25% of the building's rated material storage capacity.
- 2. The sump walls shall have a 2-hour fire-rated construction,
- 3. The sump floor shall utilize interior & exterior continuously welded heavy gauge steel sheets for maximum spill containment protection.
- 4. 6" Sump built into building structure.

L. Building Base

- 1. Open channel construction, underside coated with Corothan I-Coal Tar for maximum corrosion resistance. Forklift pockets and hold-down brackets for ease of off-loading and relocation. The building base is constructed in a manner to ensure the fork lifting, loading, transporting, offloading, and relocation do not

affect this chemical storage building. This is to ensure the door openings remain square after lifting the building multiple times with a crane or fork trucks. The building base assembly shall consist of the following materials: 6 x 4 x 3/16" rectangular tubing, Hold Down Brackets welded to building are 1/2" thick plate steel angles, Floor Channel C 4x5.4, Floor Channel C6x8.2, and 4 x 2 x 1/8" rectangular tubing.

M. Floor System

1. Grating and Leak Proof Spill-Containment Sump Assembly consisting of 1" deep welded galvanized steel floor grating over 6" deep leak proof secondary containment sump. 3 Sump floor is fabricated utilizing continuously welded 10 gauge steel sheets for maximum spill containment. Acrylic alkyd enamel coating is applied to secondary containment sump. Floor System is fabricated to comply with NAAMM MBG 531, "Metal Bar Grating Manual for Steel, Stainless Steel, and Aluminum Gratings and Stair Treads."
2. The floor system supports shall be removable and designed to support the loads listed in the Structural section

N. Finishes

1. Interior and Exterior
 - a) The exterior Finish shall be a high solid, Isocyanate free poly siloxane epoxy coating combines the properties of high-performance epoxy and polyurethane in one coat.
 - b) The interior finish shall be a high-solids Isocyanate free poly siloxane epoxy coating combines the properties of high-performance epoxy and polyurethane in one coat.

O. Static Grounding

1. To minimize static sparking hazards, the building shall be equipped with a static grounding connection/bonding system meeting NEC requirement.
2. Three (3) Interior grounding lugs, one (1) exterior static grounding connection and one (1) 10-foot long 5/8" diameter copper-clad steel grounding rod, and grounding lugs.

P. Anchoring

1. The building shall be equipped with welded steel angles for wind up-lift/ overturning, and seismic loads as listed in Structural section.
2. Each angle shall be a heavy gauge structural steel with a 1-inch diameter hole.

Q. Signage:

1. Hazard labeling shall be provided and will include Department of Transportation (DOT) placards and National Fire Protection Association (NFPA) 704 hazard rating signs.
2. Signage shall use pressure sensitive adhesives.
3. Signage shall be contained in a rust-proof aluminum holder NFPA 704 Hazard Rating Sign(s).
4. Signage shall use stainless steel clips.

R. Natural Ventilation

1. The building shall be ventilated with through wall openings positioned to provide for maximum potential airflow.
2. Each vent opening is to be protected with a UL Classified 3-hour fire damper to maintain the fire resistance rating of the walls.
3. The openings shall be 14"W x 14"H with make-up air arranged on opposite ends of the building to provide air movement and prevent accumulation of hazardous vapors.
4. Exhaust Ventilation, Exterior Low Mount (Explosion Proof) (Class I, Division 1 Groups C&D) with Snap-Type Switch (Non Explosion-Proof) – Three Compartment Unit – Qty 3 / Double and Single Compartment Units – Qty 1 each

a. EXPLOSION PROOF EXHAUST FAN CONSISTING OF ONE (1) UL LISTED, CLASS I, DIVISION 1, GROUP C AND D TOTALLY ENCLOSED EXPLOSION PROOF 1/3 HP 1800 RPM MOTOR (115VAC, 6.6A, 60HZ, 1-PHASE) WITH NON-STATIC TWELVE-INCH (12) DIAMETER CAST ALUMINUM FAN BLADE, 1,160CFM @ 0.0"SP, 855CFM @ 0.125"SP, 570CFM @ 0.25"SP, 310CFM @ 0.375"SP. EXTERNAL HOUSING CONSTRUCTED OF 18 GA STEEL. EXHAUST INTAKE VENTS LOCATED WITHIN TWELVE INCHES (12) OF THE FLOOR (GASES

HEAVIER THAN AIR). ACTIVATED BY AN EXTERIOR UL LISTED FAN SWITCH, OTHER CONFIGURATIONS AVAILABLE (MAY AFFECT COST AND SHIPPING DIMENSIONS). EXTERIOR EXHAUST FAN PORT OPENING EQUIPPED WITH SHUTTER ASSEMBLY AND SCREEN.

S. Operation and Instruction. The Supplier shall provide a detailed instruction manual to include the following:

1. Layout drawings of construction
2. Electrical schematic, if applicable
3. All warranties of the building and any included accessories
4. Recommended anchoring techniques
5. Operation and maintenance information for all appliances

T. EQUIPMENT

1. Electric
 - a. Interior Lighting
 - 1) Each building shall be equipped with interior light(s). Three Compartment Unit – Qty 3 / Double and Single Compartment Units – Qty 2 each
 - 2) The interior lights will be controlled by a dedicated switch
 - 3) CLASS 1 DIVISION 2 LED INTERIOR LIGHT LED LIGHT FIXTURE, CEILING OR WALL MOUNT, ROUND LIGHT. UL 1598A, 844, 1598, & 8750; CUL LISTED. CLASS1, DIV 2, GROUPS A, B, C, & D. CLASS 2, DIV 2, GROUPS F & G. NEMA 4X. DESIGNED FOR USE IN HAZARDOUS LOCATIONS AND WHERE MOISTURE, DIRT, DUST, CORROSION AND VIBRATION MAY BE PRESENT. ALUMINUM BODY W/ GRAY EPOXY FINISH; ONE PIECE, NEOPRENE GASKET AND DIFFUSED POLYCARBONATE LENS. 120-277V, 1-PHASE, 50 OR 60HZ. 3870 LUMENS, 27 WATTS4)
 - 4) The fixtures shall not be used as conduit raceway.
2. Controls

- a. The building shall be equipped with exterior non-explosion proof, UL listed on/off switch(s) to manually activate lights and /or exhaust ventilator. Switches shall be listed by UL.
3. Electrical Specifications
 - a. The internal electrical system shall consist of branch circuits, which supply dedicated hard-wired loads.
 - b. This specification covers the electrical construction from and including the distribution panel to branch circuit terminations.
 - c. All interior electrical equipment shall be UL listed for use in hazardous locations.
 - d. All exterior components shall be listed for exterior locations. All heat producing appliances shall be marked with a normal operating temperature in accordance with the marking requirements of NFPA 70.
 - e. All internal and external electrical equipment shall be UL listed.
4. Electrical Load Center
 - a. Enclosure
 - 1) UL LISTED, SINGLE PHASE, 3 WIRE, 120/240V, 8 SPACE 100 Amp LOAD CENTER (NEMA 3R).
RAINPROOF AND SLEET-(ICE) RESISTANT- OUTDOOR ENCLOSURES ARE INTENDED FOR USE OUTDOORS TO PROTECT THE ENCLOSED EQUIPMENT AGAINST RAIN AND MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES, INC., PUBLICATION NO. UL 508, APPLYING TO "RAINPROOF ENCLOSURES." OTHER ELECTRICAL CONFIGURATIONS AVAILABLE, ADDITIONAL COSTS MAY APPLY.2)
 - 2). Identification: All branch circuits shall be detailed on paper inside of the electrical load center.
5. Conduit/Raceway
 - a. Conduit shall be UL Listed.
All interior mounted conduit shall be galvanized.
All interior mounted conduit shall be aluminum.
All exterior mounted conduit shall be galvanized.
All exterior mounted conduit shall be aluminum.
All threaded joints in boxes, fittings, etc. shall be made-up with at least 5 full threads and have a 3/4 inch per foot taper.
 - b. Fittings
All unions, elbows, pull boxes, and other fittings shall be UL a listed for hazardous locations.
 - c. Seal-offs shall be UL listed for hazardous locations. The installation and filling of the seals shall be in accordance with the manufacturers instructions. Seal-offs shall be located in each conduit run entering a sparking device such as switches, thermostats, relays, etc. The seal shall be located as close as possible to the enclosure, but in no case more than 18 inches away. A seal-off shall also be located in each conduit run leaving the building, and may be located on either side of the walls. No fittings are permitted between the wall and the seal-off.
Splices and taps are not permitted in seal-offs.
 - d. Support

Conduit shall be fastened within 3 feet of each junction or fitting, and every 10 feet elsewhere.

6. DRY CHEM 45LB

UL, ULC LISTED AND FM APPROVED PRE-ENGINEERED 45LB DRY CHEMICAL FIRE SUPPRESSION SYSTEM FOR CLASS A,B AND C FIRES. EQUIPPED WITH MEANS FOR REMOTE ANNUNCIATION. SYSTEM INCLUDES FUSIBLE LINK DETECTION FOR AUTOMATIC ACTUATION, MANUAL PULL STATION, AND NOZZLE(S) FOR TOTAL FLOODING APPLICATION. AGENT STORAGE LOCATED ON BUILDING EXTERIOR IN WEATHERPROOF ENCLOSURE. AUDIBLE ALARM INCLUDED WITH SYSTEM. DRY CHEMICAL SYSTEMS SHIP WITH A FULL TANK OF SUPPRESSANT, BUT SYSTEM MUST BE ARMED BY A LICENSED TECHNICIAN ONCE THE BUILDING IS ON SITE. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO ARRANGE AND COORDINATE THIS ARMING AND ANY RESULTING TESTS OR OTHER MAINTENANCE. SOME OF THE ELECTRICAL COMPONENTS WILL NOT OPERATE UNTIL THIS ARMING PROCESS HAS BEEN COMPLETED.

7. EP LIQUID LEVEL DETECTOR (Three Compartment - Qty 3, Double Compartment – Qty 2, Single Compartment – Qty 1)

EXPLOSION PROOF UL LISTED, CLASS I, GROUPS D, DIVISION 1 & DIVISION 2, LIQUID LEVEL DETECTOR WITH MEANS FOR REMOTE ANNUNCIATION AND/OR VISUAL ALARM (SOLD SEPARATELY) INTRINSICALLY SAFE USING SAFEPACK RELAY.

8. OUTDOOR FIRE ALARM HORN/ STROBE NON-EP STROBE WARNING LIGHT, RED IN COLOR, 120 VAC. SOUNDER/FLASER 85 DECIBEL. FLASH RATE 75 PER MINUTE- TIED TO DRY CHEMICAL SYSTEM.

9. EXPL. RELIEF PANEL 4 X 7

PRESSURE-RELIEF PANEL(S) LOCATED ON THE EXTERIOR WALL AND ARE DESIGNED TO RELEASE AT AN INTERNAL PRESSURE OF 20 PSF. EACH PANEL IS EQUIPPED WITH APPROVED RELEASE FASTENERS AND A RESTRAINT MECHANISM DESIGNED TO CUSHION THE PANEL'S ACCELERATION AS THE FULL OPEN POSITION IS REACHED. BLOWOUT DISTANCE OF 7'.

10. ALARM H/S NXP BLUE 120V (Three Compartment - Qty 3, Double Compartment – Qty 2, Single Compartment – Qty 1)

OUTDOOR FIRE ALARM HORN/ STROBE NON-EP STROBE WARNING LIGHT, BLUE IN COLOR, 120 VAC. SOUNDER/FLASER 85 DECIBEL. FLASH RATE 75 PER MINUTE- TIED TO LIQUID LEVEL DETECTOR

11. NONXP PUSH BUTTON (Qty 1 per building)

NON EXPLOSION PROOF PUSH-BUTTON SWITCH 22MM RED PUSH-BUTTON SWITCH WITH MAINTAINED ACTION (TURN TO RELEASE). WATER TIGHT, DUST TIGHT, AND CORROSION RESISTANT, RATED FOR

10A, 600V, NEMA

12. ALARM H/S NXP CLEAR 120V

4/4X/13 ENCLOSURE. FLASHER 85 DECIBEL. FLASH RATE 75 PER MINUTE

13. FL2 PART WALL 9-11 2HR STD

INTERIOR SEPERATION WALL FOR FL2 MODELS (9' - 11' NOMINAL WIDTH). 2HR-FIRERATED WALLCONSTRUCTION, SEPERATION WALL EXTENDS FROM SUMP BASE TO CEILING.)

14. SUMP SHELVING 24IN DEPTH (Qty 60LF per building)

SUMP SHELVING 24" SUMP SHELVING: ADJUSTABLE 24" LEAKPROOF STEEL SHELVING FORMED ANDWELDED FROM HEAVY GAUGE STEEL WITH A 2" LIP AROUND THE ENTIRE SHELF. SHELVING LENGTHS ARE APPROXIMATE AND MAY VARY DUE TO SPACE LIMITATIONS. TOTAL PRICE IS CALCULATED FROM QUANTITY OF LINEAR FEET QUOTED.

15. RAMP ADJUSTABLE 60 X 48 HD (One per each door)

ACCESS RAMP (60"W X 48"L) ADJUSTABLE, FABRICATED FROM 1/8" DIAMOND PLATE STEEL. COLOR: SAFETYYELLOW. RATED FOR 100 LBS PER SQ FT AND 1,500 LBS POINT LOAD. RAMP WEIGHT - 333 LBS; PALLETIZED SHIPPING WEIGHT - 440 LBS; ESTIMATED SHIPPING DIMENSIONS 53"W X 49"L X 17"H.

16. STATE APPROVAL NORTH CAROLINA

REVIEW, DESIGN AND/OR INSPECTION AS REQUIRED BY THE STATE IN WHICH THIS BUILDING WOULD BE LOCATED. THIS PROCESS WILL ADD SEVERAL WEEKS TO THE OVERALL CONSTRUCTION TIME DUE TO REQUIRED REVIEW AND INSPECTIONS. US CHEMICAL STORAGE WILL PROVIDE AN UPDATED OVERALL PROJECT LEAD-TIME CONSIDERING THIS APPROVAL AND CONSTRUCTION TIME AT THE POINT OF ORDER. ADDITIONAL COMPONENTS MAY BE REQUIRED BY THE STATE'S PLAN REVIEWER IN ORDER TO MEET STATE BUILDING, FIRE, & ENERGY CODES. IF SUCH COMPONENTS ARE REQUIRED, ADDITIONAL COST IMPACTS TO THE ORDER MAY BE NECCESARY.

17. FM APPROVAL

THIS UNIT WILL HAVE FACTORY MUTUAL (FM) APPROVAL. THE FULL LIST OFU.S. CHEMICAL STORAGE MODELS AND SIZES THAT CARRY FM APPROVAL CAN BE FOUND AT APPROVALGUIDE.COM.

2.4 SUPPLIED BY CONTRACTOR

- A. Freight to Jobsite
- B. Offloading from flatbed trailer to concrete pad
- C. Remove packaging materials.
- D. Local Permitting
- E. Installing concrete supporting slab per local codes.
- F. Leveling (with stainless steel supports) and anchoring.
- G. Installing Anchor Bolts in the concrete supporting slab.
- H. Electrical Feeder Wiring to the US Chemical building, complying with state or national

- codes.
- I. Electrical Grounding complying with state or national codes.
- J. Dry chemical system activation by authorized distributor
- K. Setting the Fire dampers
- L. Install shelving to brackets
- M. Setting the ramps

PART 3 - EXECUTION

3.1 PREPARATION

- A. Begin installation after
 - 1. All local, regional, state or national codes and procedures have been met
 - 2. Mounting pad has been properly prepared.
 - 3. Any other items in 2.3 above are required.

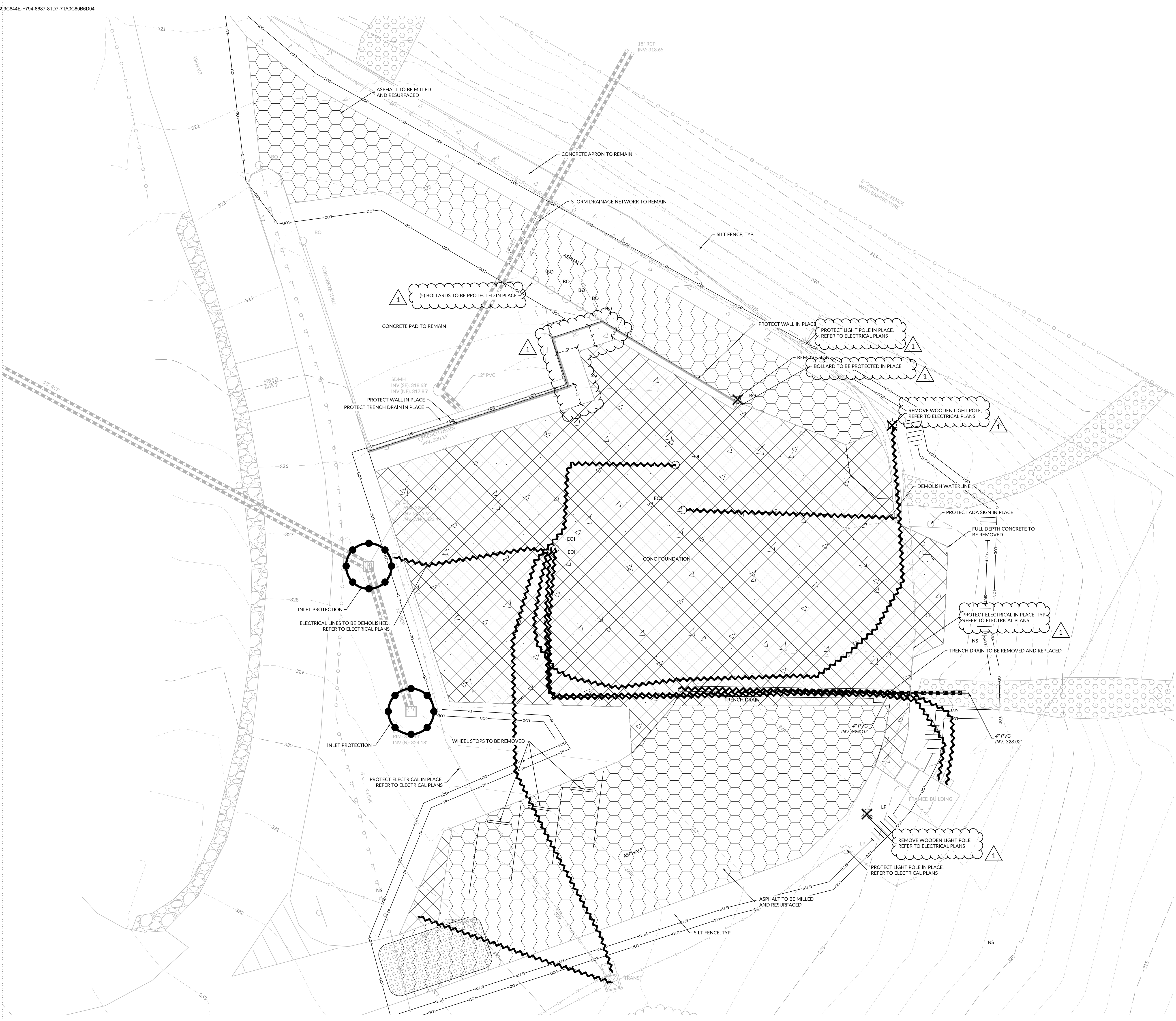
3.2 INSTALLATION

- A. Lift and install in accordance with manufacturer's instructions.
- B. Install electrical systems in accordance with NFPA 70.
- C. Connect electrical panel to building power.

3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products after installation.

END OF SECTION 13 3420



DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	PAVEMENT TO BE REMOVED
	PAVEMENT TO BE MILLED AND RESURFACED
	LINEAR ELEMENT TO BE REMOVED
	SITE ITEM TO BE REMOVED
	LIMITS OF DISTURBANCE
	SILT FENCE/TREE PROTECTION FENCING
	TREE PROTECTION FENCING
	SILT FENCE OUTLET
	INLET PROTECTION

- DEMOLITION NOTES:**
1. THE CONTRACTOR MUST COORDINATE WITH THE OWNER AND UTILITY OWNER TO PROPERLY MAINTAIN, REMOVE OR RELOCATE EXISTING UTILITY SERVICE CONNECTIONS WHEN NECESSARY.
 2. THE CONTRACTOR MUST NOTIFY SURROUNDING NEIGHBORS ABOUT ANY POTENTIAL INTERRUPTION TO SERVICE OF ANY KIND.
 3. EXISTING UTILITIES NOT INTENDED FOR DEMOLITION MUST BE MAINTAINED, PROTECTED AND UNDISTURBED DURING CONSTRUCTION ACTIVITIES.
 4. THE CONTRACTOR MUST PROTECT ADJACENT PROPERTY, STRUCTURES AND UTILITIES. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES WILL BE AT THE CONTRACTOR'S EXPENSE AND MUST BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
 5. MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK WILL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED AND MUST BE PROPERLY DISPOSED OF OFF-SITE.
 6. SAW CUTS OF EXISTING PAVEMENTS, CURBS, GUTTERS AND SIDEWALKS MUST PRODUCE A NEAT VERTICAL EDGE.
 7. DEMOLITION WORK MUST BE DONE IN STRICT ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.
 8. APPLICABLE PERMITS REQUIRED FOR THE DEMOLITION WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PRIOR TO THE START OF DEMOLITION ACTIVITIES.
 9. THE EXISTING BASE COURSE IN PAVEMENT AREAS TO BE REMOVED MAY BE RE-USED PROVIDED THAT GRADATION COMPLIES WITH THE SPECIFICATIONS FOR NEW PAVEMENT. THE CONTRACTOR MUST PROVIDE AN INDEPENDENT TESTING FIRM TO VERIFY COMPACTION, DEPTH, CONSISTENCY, AND CONDITIONS IN THE BASE MATERIAL LEFT IN PLACE.



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Wake County Facilities Design & Construction

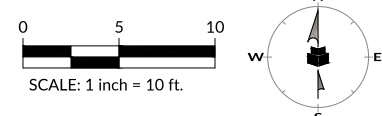


CONSULTANTS

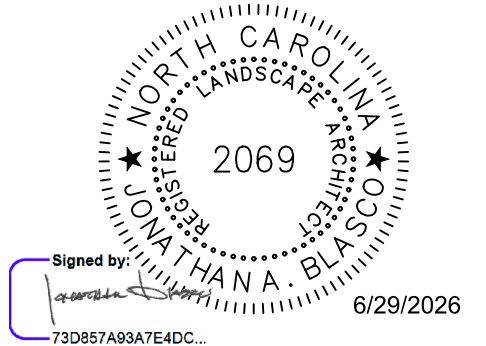
Landscape and Civil Engineering
WithersRavenel
5 Waverston St #200, Raleigh, NC 27601
919.555.5200

Structural
Lysaght & Associates
120 St Marys Street, Raleigh, NC 27605
919.853.0495

Mechanical, Plumbing and Electrical Engineering
HDM Associates
1067 Arhee Court, Elizabeth City, NC 27909
252.698.3003



SEALS



PROJECT INFORMATION

PROJECT NO.: 2508
PHASE: BID / PERMIT
DATE: MAY 18, 2026
DRAWN BY: KG
CHECKED BY: JB/MA

REVISIONS

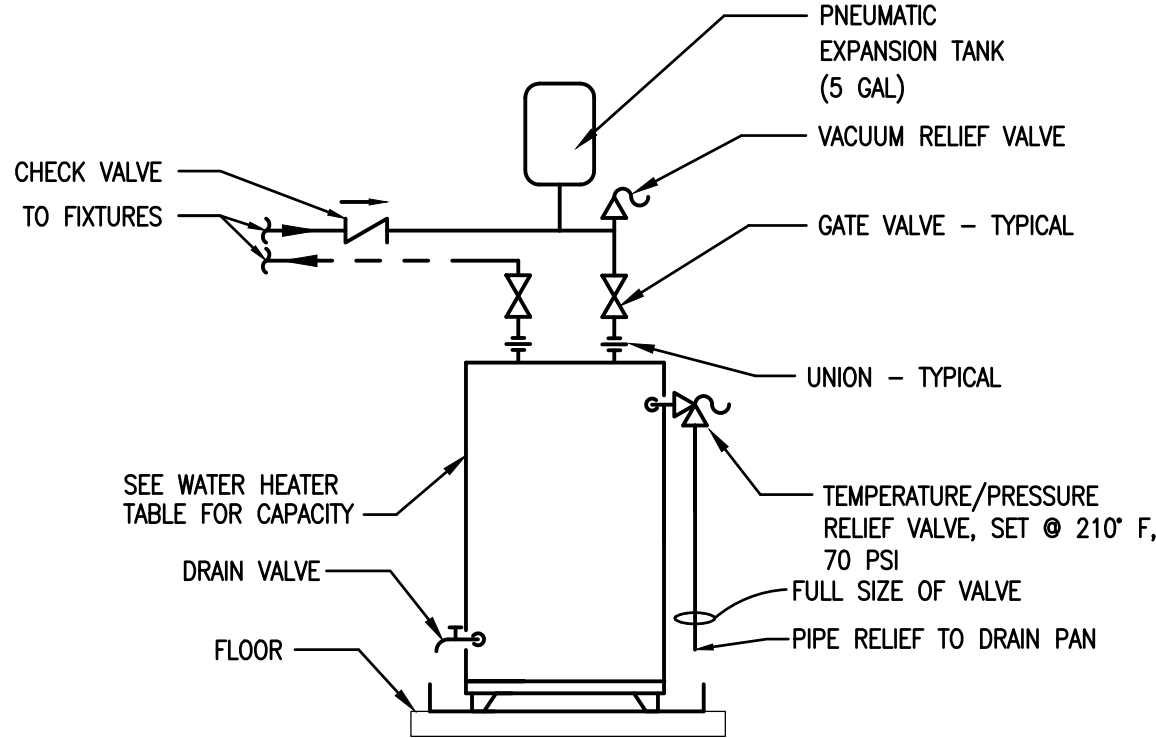
NO.	DESCRIPTION	DATE
1	Addendum 2	06/29/2026

SHEET INFORMATION

C1.00

DEMOLITION PLAN

PLUMBING FIXTURE CONNECTION SCHEDULE AND REMARKS							
MARK	DESCRIPTION	DRAIN	VENT	CW	HW	THW	FIXTURE REMARKS
P-1	UTILITY SINK - WALL HUNG	3"	2"	1/2"	1/2"	1/2"	MOUNT FAUCET 6" ABOVE SINK RIM. PROVIDE ALL REQUIRED MATERIALS TO MOUNT ON WALL.
P-2	EMERGENCY EYE WASH/SHOWER	-	-	-	-	1 1/4" 3/4"	FIXTURE HAS (2) TWO INLETS. PIPES CONNECT BELOW GRADE. PROVIDE THERMOSTATIC MIXING VALVE.
WH-1	WATER HEATER - ELECTRIC	-	-	3/4	3/4	3/4	
BKPV-1	BACKFLOW PREVENTER - RPZ	1	-	1 1/4	-	-	BACKFLOW PREVENTER SHALL BE A LEAD-FREE REDUCED PRESSURE ZONE ASSEMBLY (RPZ) TYPE BACKFLOW PREVENTER. THE PREVENTER SHALL BE ANSI/ASSE 1013; CONSTRUCTION SHALL BE BRONZE BODY WITH BRONZE AND PLASTIC INTERNAL PARTS AND STAINLESS STEEL SPRINGS; TWO INDEPENDENTLY OPERATING, SPRING LOADED CHECK VALVES; DIAPHRAGM TYPE DIFFERENTIAL PRESSURE RELIEF VALVE LOCATED BETWEEN CHECK VALVES. PROVIDE THIRD CHECK VALVE WHICH OPENS UNDER BACK PRESSURE IN CASE OF DIAPHRAGM FAILURE. PROVIDE NON-THREADED VENT OUTLET. THE ASSEMBLY SHALL BE PROVIDED WITH TWO GATE VALVES, STRAINER AND FOUR TEST COCKS. MODEL SHALL BE WATTS MODEL NUMBER LF909.



WATER HEATER DETAIL - FLOOR MOUNT

NO SCALE

ELECTRIC WATER HEATER SCHEDULE							
MARK	TANK VOLUME (GAL)	ELEMENT INPUT (kW)	RECOVERY (GPH @ 90°F RISE)	H2O TEMP (°F)	POWER VOLTS	PHASE	REMARKS
WH-1	20	2.0	9.7	140	120	1	-

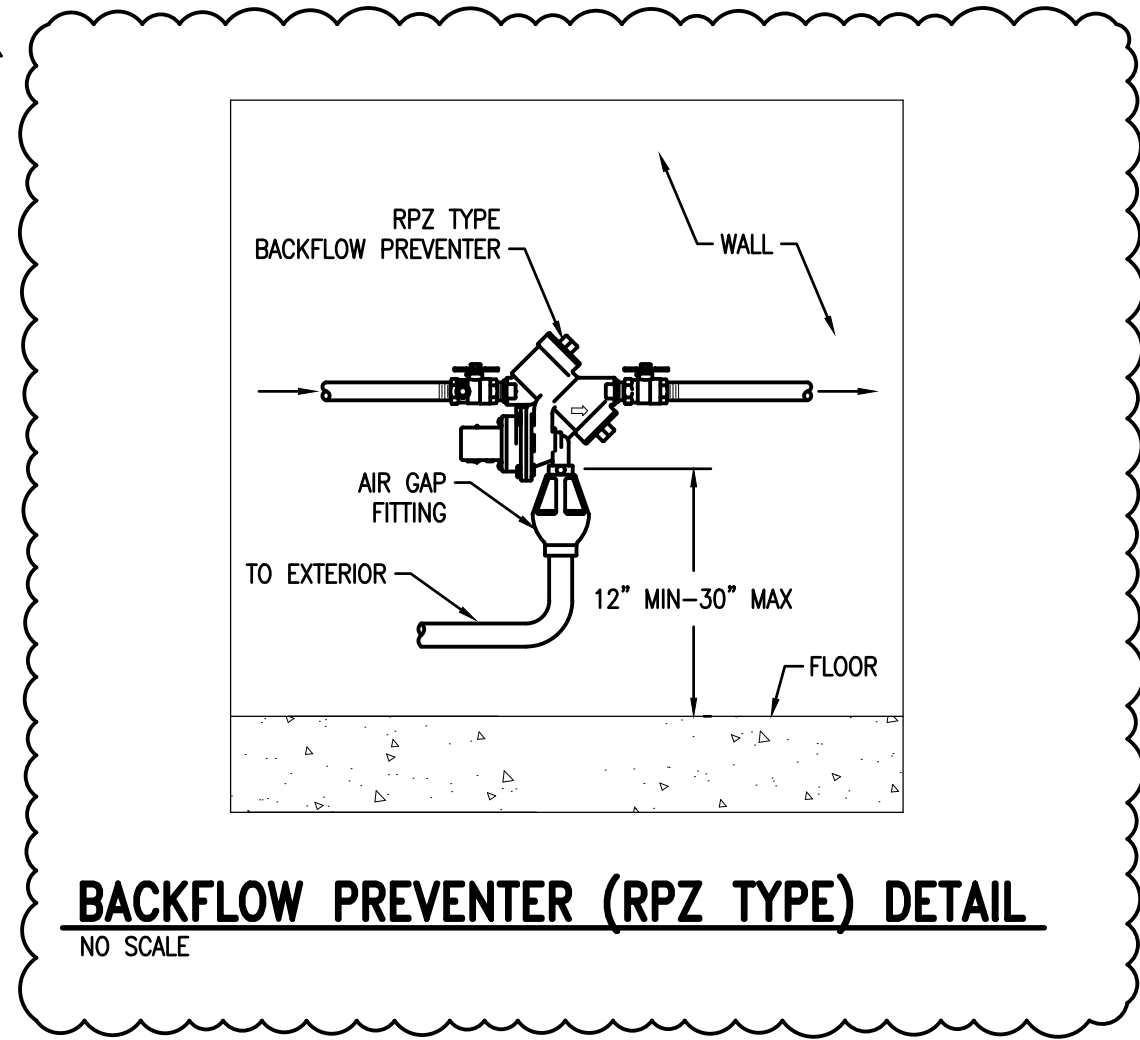
WATER PIPE SIZE CALCULATIONS				
MARK	DESCRIPTION	FU'S	# FIXT	SUBTOTAL
P-1	UTILITY SINK	3.0	1	3.0
P-2	SHOWER/EYE WASH	3.0	1	3.0
TOTAL WATER FIXTURE UNITS				6.0
REQUIRED PIPE SIZE		1"		
PROVIDED PIPE SIZE		1 1/4"		

LEGEND

LEGEND NOTES:

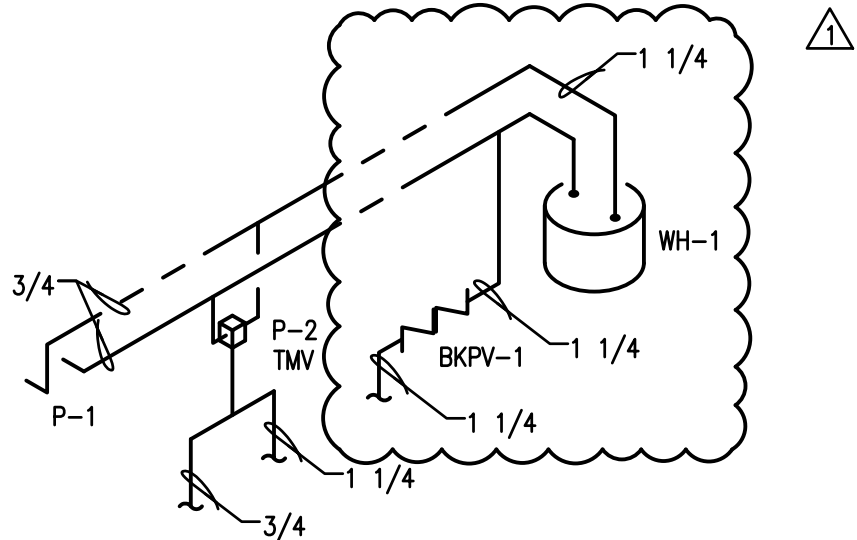
- ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED OR LOCATED UNDERGROUND AS NOTED.
- ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.

- SS SANITARY SEWER OR WASTE PIPE
- SV SANITARY VENT PIPING
- HW DOMESTIC HOT WATER PIPING (HW)
- CW DOMESTIC COLD WATER PIPING (CW)
- THW TEMPERED (110°) HOT WATER
- WD WATER HEATER PAN DRAIN PIPING
- P PUMP
- AAV AIR ADMITTANCE VALVE (AAV)
- FD FLOOR DRAIN (FD)
- FS FLOOR SINK (FS)
- COFF CLEAN OUT (FLOOR TYPE) (COFF)
- COFG CLEAN OUT (GRADE TYPE) (COFG)
- WCO CLEAN OUT (WALL TYPE) (WCO)
- CO CLEAN OUT (CO)
- PTU PIPING TURN UP
- PTD PIPING TURN DOWN
- BIW BOX IN WALL
- BKPV BACKFLOW PREVENTER (BKPV)
- VB VALVE BOX (VB)
- V VALVE
- HB HOSE BIBB (HB)
- WHA WATER HAMMER ARRESTOR (WHA)
- C CONTINUATION
- PNC POINT OF NEW CONNECTION
- RD REVISION DESIGNATION
- NWN NEW WORK NOTE
- GN GENERAL NOTE
- DWN DEMOLITION WORK NOTE
- EN EQUIPMENT NUMBER - PROVIDED BY OTHERS; FINAL CONNECTIONS BY PLUMBING CONTRACTOR.
- PF PLUMBING FIXTURE NUMBER - PLUMBING CONTRACTOR TO PROVIDE AND INSTALL.



BACKFLOW PREVENTER (RPZ TYPE) DETAIL

NO SCALE

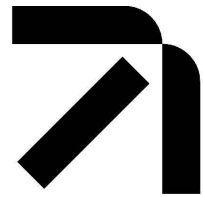


PLUMBING RISER DIAGRAM - WATER

NO SCALE

GENERAL COORDINATION NOTES

- COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
- COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK.
- COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.



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NWLF HHW REBUILD

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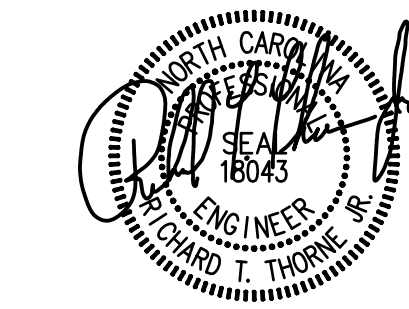
WAKE COUNTRY
FACILITIES DESIGN &
CONSTRUCTION

CONSULTANTS

PLUMBING, MECHANICAL, ELECTRICAL
HDM ASSOCIATES, INC.
106 TARNHEEL CT.
ELIZABETH CITY, NC 27909
252.698.3003



SEALS



HDMA# 25027 05/18/26

HDM

ASSOCIATES, INC.
Professional Engineering Services

PROJECT INFORMATION

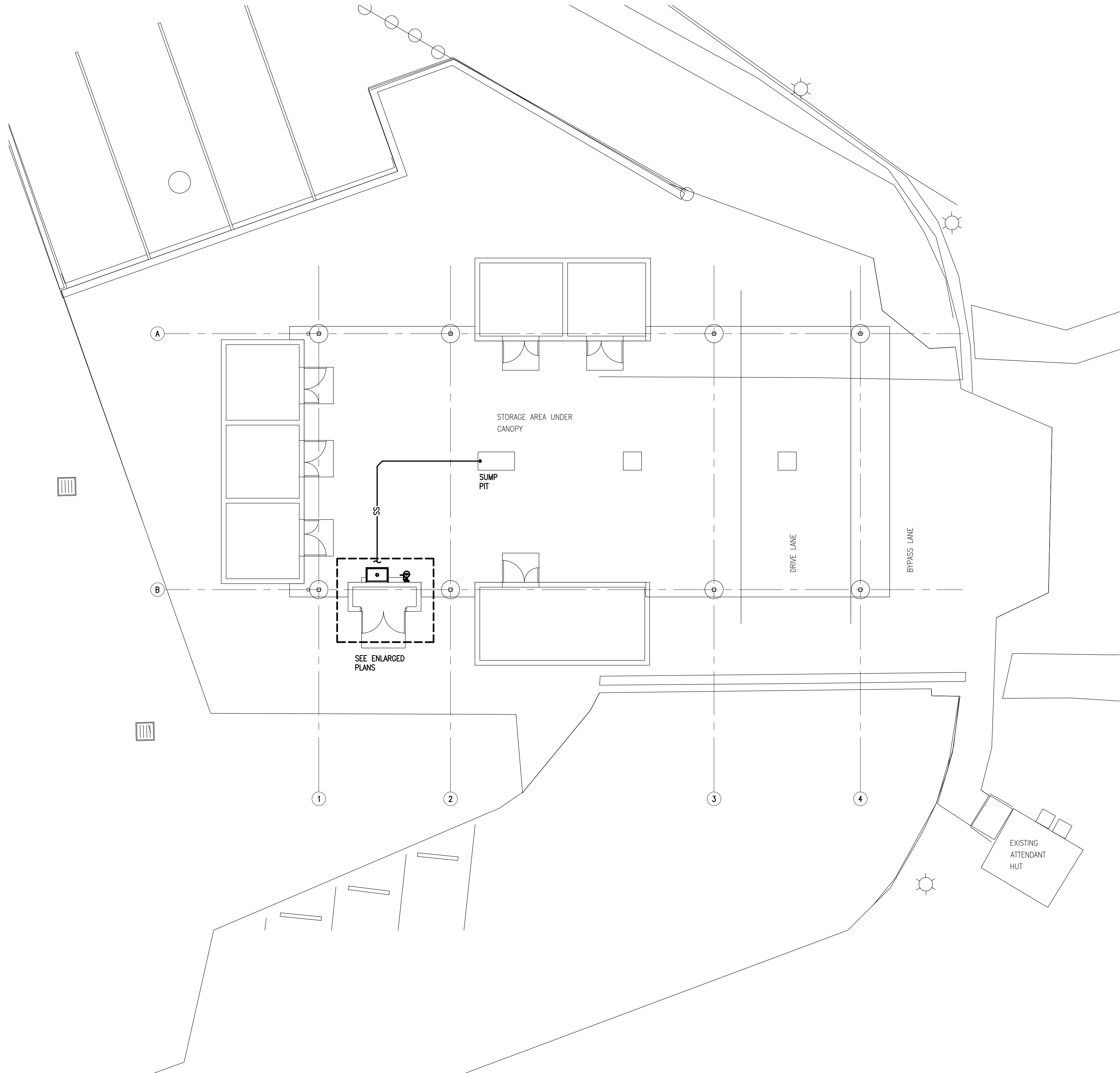
PROJECT NO.: 2508
PHASE: BID/PERMIT
DATE: MAY 18, 2026
DRAWN BY: RCM
CHECKED BY: RTT

REVISIONS

NO.	DESCRIPTION	DATE
1	ADD BACKFLOW PREVENTER; SHEETS CHANGED: P001 & P100	06/25/26

SHEET INFORMATION

P001
PLUMBING LEGEND &
SCHEDULES

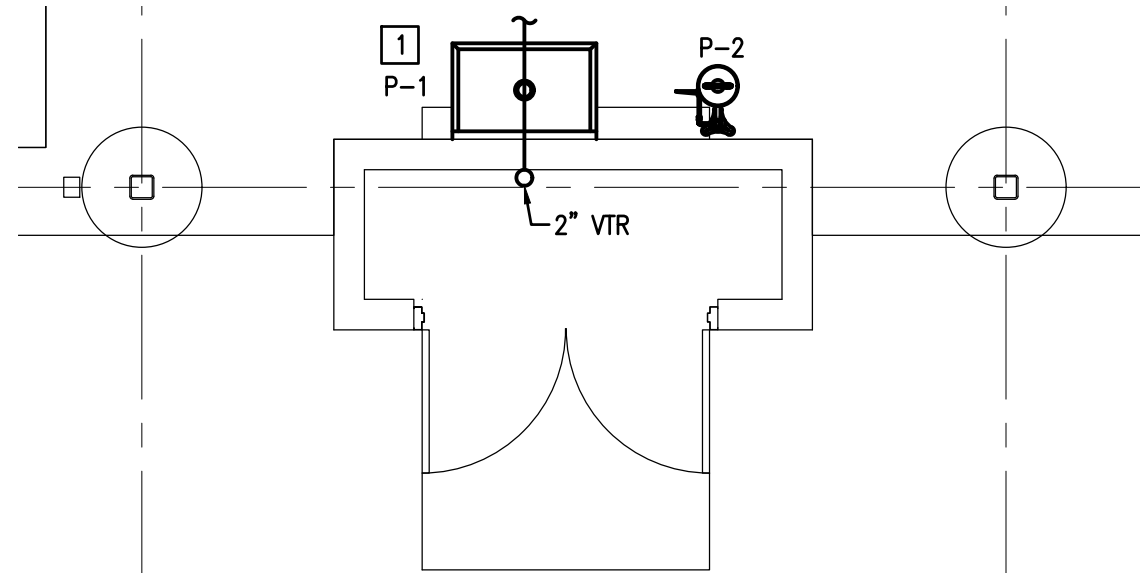


PLUMBING OVERALL SITE PAN
SCALE: 1/8" = 1'-0"

WORK NOTES

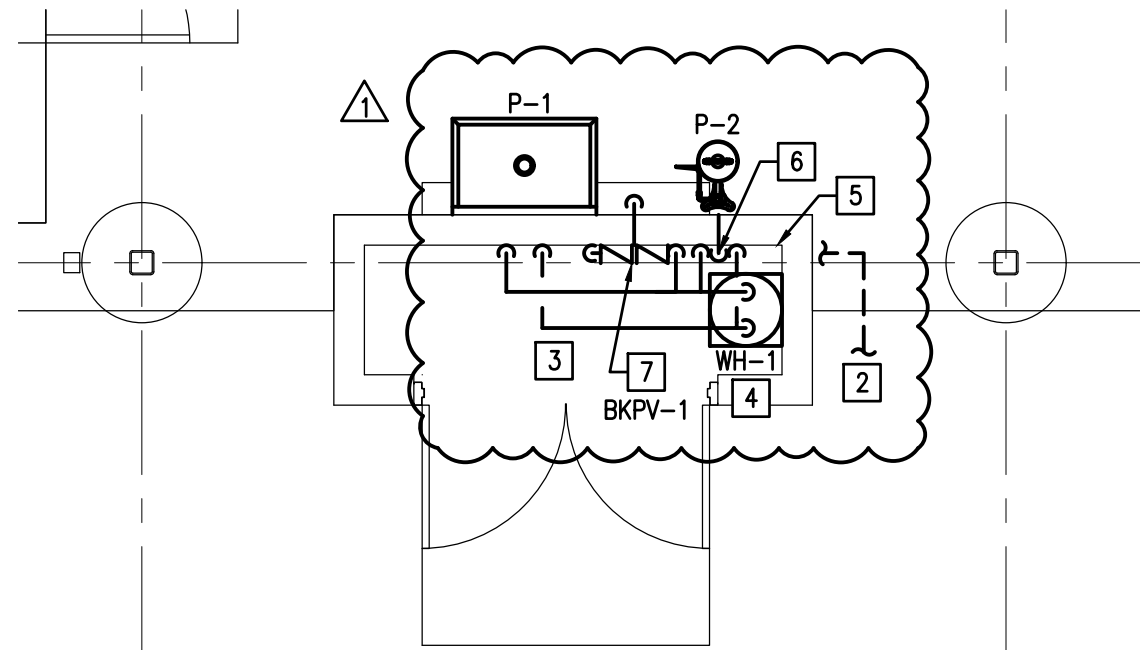
- 1 ROUTE SANITARY DRAIN PIPING FOR SINK TO SUMP PIT. COORDINATE WITH ENGINEER.
- 2 SEE CIVIL PLAN FOR CONTINUATION AND CONNECTION. COORDINATE WITH ENGINEER.
- 3 ROUTE PIPING LOW ALONG FACE OF WALL. COORDINATE WITH ENGINEER.
- 4 WATER HEATER SHALL BE FLOOR MOUNTED WITH DRAIN PAN.
- 5 PROVIDE SHUT-OFF VALVE. MOUNT ON WALL IN VERTICAL OF PIPE 3'-0" ABOVE FINISHED FLOOR.
- 6 MOUNT THERMOSTATIC VALVE TO WALL.

- 7 PROVIDE BACKFLOW PREVENTER WITH ASSOCIATED PIPING, ACCESSORIES AND SUPPORTS. ROUTE DRAIN PIPING TO EXTERIOR THRU EXTERIOR WALL AND TURN DOWN. SEAL WALL PENETRATION WEATHERTIGHT.



PLUMBING FLOOR PAN - WASTE

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



PLUMBING FLOOR PAN - WATER

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

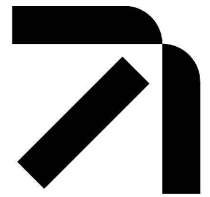
NOTE:

* THIS SITE STORES HAZARDOUS/CONTAMINATED MATERIALS. THERE IS A POSSIBILITY THE UTILITY SINK WILL COME IN CONTACT, THEREFORE DISCHARGE IS ROUTED TO THE SUMP PIT. OWNER SHALL HAVE ALL SUMP PITS AND UTILITY SINK ON SITE PUMPED, CLEANED AND SANITIZED BY A HAZARDOUS ENVIRONMENTAL CLEANING SERVICE ON A REGULAR BASIS.

GRAPHIC SCALE



GRAPHIC SCALE



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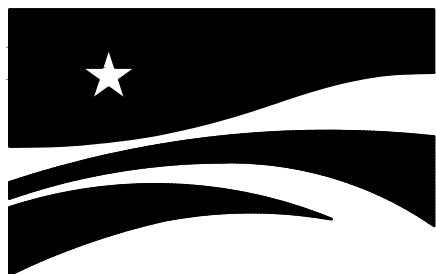
NWLF HHW REBUILD

PROJECT LOCATION
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RALEIGH, NC 27614

WAKE COUNTY
FACILITIES DESIGN &
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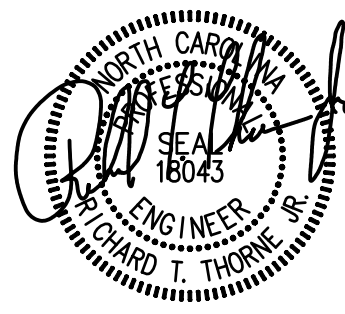
CONSULTANTS

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ELIZABETH CITY, NC 27809
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WAKE
COUNTY
NORTH CAROLINA

SEALS



HDMA# 25027

05/18/26

HDM

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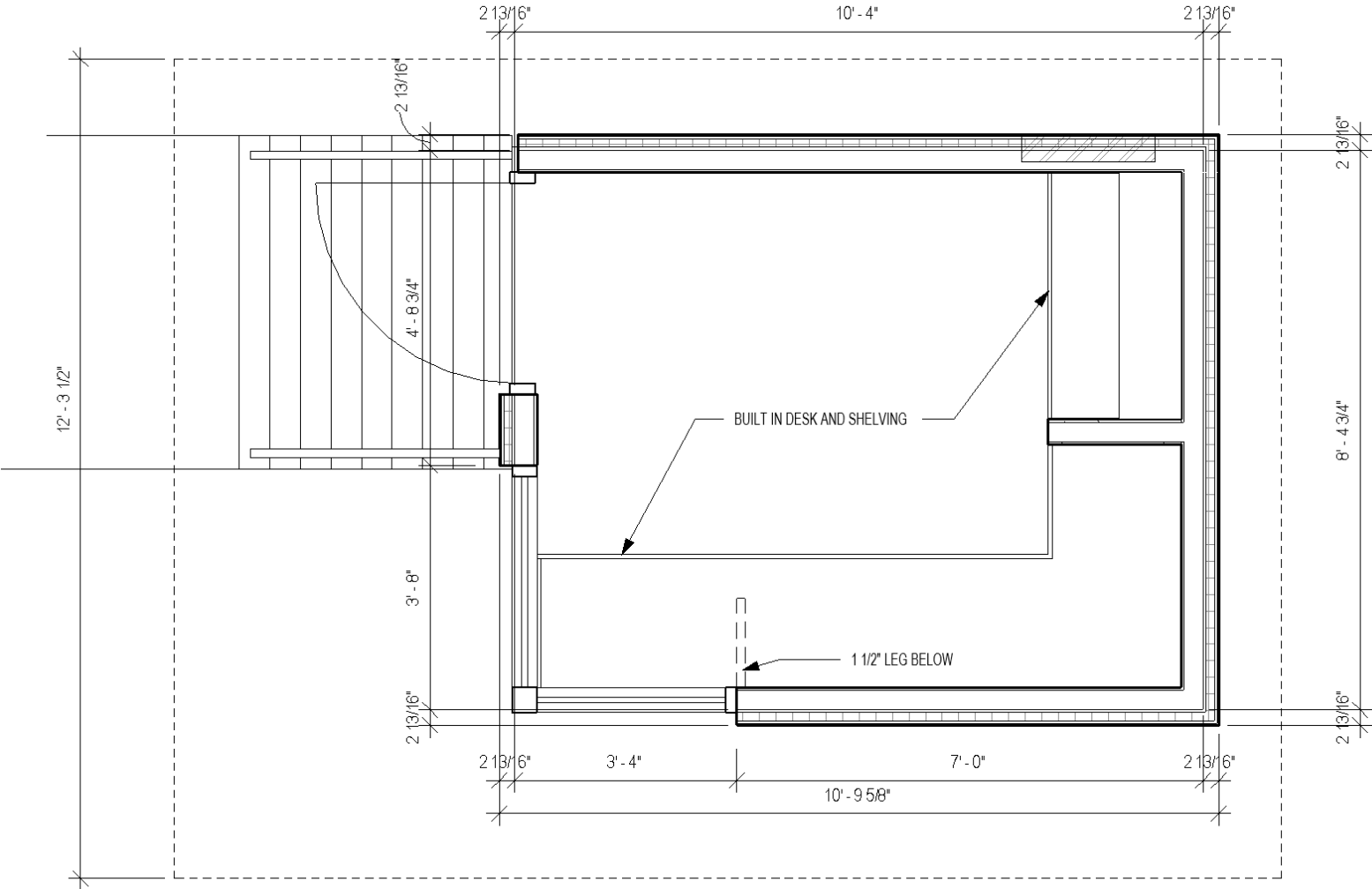
NO.	DESCRIPTION	DATE
1	ADD BACKFLOW PREVENTER; SHEETS CHANGED: P001 & P100	06/25/26

SHEET INFORMATION

P100

PLUMBING SITE PLAN

Existing Floor Plan and Photos of Attendant Hut Floor



Existing Floor Plan and Photos of Attendant Hut Floor

