



GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

IMPROVING FATS OIL AND GREASE RECEIVINGS

Project SSF 2020-03

ADDENDUM #3

January 31, 2024

BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM #3 IN THEIR PROPOSAL

Bidders are hereby informed that plans and specifications for the above-mentioned project are modified, corrected, and or supplemented as follows and that Addendum #3, complete with the enclosures, becomes part of the Contract Documents.

A. RESPONSE TO BIDDER QUESTIONS:

B. RFI 1 Issued 1-11-24

1. **Question:** Drawing M-63-103 – Does the floor drainage piping need to be concrete encased?
 - i. **Response:** Yes, refer to detail S5001.
2. **Question:** Section 06 71 10 – This section refers to FRP platforms, no FRP platforms were found on the drawings. Please confirm the only FRP fabricated items required on the project are the FRP grating, attachments and supports for truck unloading (per Section 06 74 13).
 - i. **Response:** Confirmed.
3. **Question:** Section 07 10 00 – Paragraph 3.02, damproofing coating, states to apply to the earth side of concrete walls below grade or as indicated on the Drawings. Please clarify if the grade beams for the building require the damproofing coating.
 - i. **Response:** Yes, the grade beams shall be coated.
4. **Question:** Drawing A-63-301 – Detail 4, cavity wall base detail, calls for damproofing in the cavity on the concrete stem wall and continues up to the CMU. Please provide a spec section for the cavity wall dam proofing.
 - i. **Response:** Use Specification Section 07 10 00.
5. **Question:** Drawing A-00-501 – Detail 2, skylight flashing detail, calls for a concrete curb with water stop (reference structural drawings). Drawing S-63-107, Roof Plan does not show a curb around the skylight openings. Please clarify if a concrete curb is required, if so, please provide a detail. If a concrete curb is not required, provide a detail for the curb.
 - i. **Response:** A concrete curb is required. Refer to Attached detail.



6. **Question:** Please confirm if there are no AIS or buy American requirements for the project.
 - i. **Response:** Confirmed, AIS and BABA are not requirements for this project.
7. **Question:** Please confirm there are no MBE/WBE/Local Contractor requirements for the project.
 - i. **Response:** Confirmed, MBE/WBE/Local Contractor requirements are not required for this project.
8. **Question:** Please confirm the driveway/road north and east of the new FOG Receiving Building can be closed for 2-3 months during the construction of the foundation and periodically as needed for the construction of the building. See the attached plan showing our anticipated requirements to facilitate construction.
 - i. **Response:** The proposed plan (attached) is acceptable with the following requirements.
 - 2-3 months of occupancy in this area is accommodable.
 - This area shall not be fenced off. Plant personal will need period access to the stack, gas meter, and possibly AC units located in this area. Other forms of temporary barricading may be used to prevent personnel/vehicles from entering the site unknowingly. Barricading should allow for quick adjustment.
 - The western limit of the site may require minor adjustment to ensure adequate space for ash container removal from the garage. The configuration of the western limit of the site shall be adjusted to allow for FOG offloading for as long as allowable.
 - Contractor shall operate in good faith to minimize the duration of time where this area is impacted and adjust the limits of the worksite to accommodate plant operations if necessary.
 - In the event a major weather event is predicted to occur that could result in flooding of Connecticut Avenue, the contractor shall restore access to eastern plant entrance at the request of the Authority (east side of work limits shown in the provided sketch).
9. **Question:** Drawing E-05-102 indicates a buried duct bank from the fuel storage tank going over to the Odor Control Building but does not have a detail for how the conduit transitions into the building. Please confirm that the conduits transition from underground and enter the building by coming up on the outside of the foundation/outside of the building and penetrating the sidewall of the building. Coming in under the slab would be difficult and costly as this slab is thick.
 - i. **Response:** Confirmed, the conduits can transition to above grade prior to entering the building.
10. **Question:** Drawing M-63-101 shows a rectangular supply/return ductwork with no indication of material type, please confirm the rectangular ductwork is FRP.
 - i. **Response:** Confirmed, FRP shall be used for rectangular ductwork.
11. **Question:** Drawing M-63-101 shows the return ductwork going through the North wall and has a note indicating to connect to 16" FRP ductwork yet there is ductwork there, please confirm if this is correct.
 - i. **Response:** No, the duct shall stop at the interior north wall. See attached markup.



12. **Question:** Drawing S-63-107 – Can you take a second look at the skylight support framing plan? It appears that a support is missing on the eastern skylight and not clear on the framing intent is on the western skylight.
 - i. **Response:** Refer to attached detail for update to skylight support.
13. **Question:** There are comments in the Haley & Aldridge Geotech report that there may be contaminated soils in the area of the existing 25,000 fuel storage tank that would have to be removed. The excavation to remove this take will need to occur in a shored hole, which will limit horizontal and deeper over-excavation if required. Confirm that if additional shoring is required to over-excavate for contaminated soil removal, this will be treated as a change of conditions to the scope of work.
 - i. **Response:** The intent of the sample-in-place program described in Step 1 of the work sequence is to define the disposal requirements. If additional shoring is required this would be treated as a change of conditions.
14. **Question:** We have put a preliminary schedule together for the project and due to the sequencing with the new fuel oil tank install being a prerequisite to removing the existing fuel oil tank as well as the longer lead times for material we feel that the contract time of approximately 18 months will need to be extended to 22 months. Please confirm if the contract completion time can be extended to 22 months.
 - i. **Response:** The proposed extension is acceptable.
15. **Question:** Upon review of the as-builts provided there is no information that we can locate for the pad/structure adjacent to the work area that has the large stack on it. Please provide information on this structure
 - i. **Response:** Refer to additional attached Record Drawing 1995 RTO Foundation Mat Plan.

C. RFI 2 Issued 1-17-24

1. **Question:** Due to the complexity of the project, and pending responses to the below questions, we are respectfully requesting a two week extension of the bid due date.
 - i. **Response:** This is approved and updated in Addendum 2.
2. **Question:** It appears the micro piles supporting the FOG building slab at elv.11 will be in conflict with the shoring required for the construct of the FOG tanks. Confirm we will be able to remove the excavation support system required for the FOG tank so that the upper level piles can be installed.
 - i. **Response:** We assume that the SOE system will consist of a soldier pile and lagging system. If so, lagging boards can be removed incrementally as backfill is placed outside of the tank walls. Soldier piles should be located such that they can remain in place but be cut off below the bottom of the slab a minimum of 2 ft or 6 in below bottom of grade beam.
3. **Question:** Can you clarify what section 31 41 00, part 3.01.A means?
 - i. **Response:** Limit the disturbance to the support of excavation (SOE) area.
4. **Question:** Clarify the following regarding sections 31 09 16.20 (Pile Load Tests) and 31 64 10 (Foundation Caissons):
 - a. What are the design loads of the piles?



- b. How many load tests are required?
- c. Drawing S-00-009, detail D, note 1. Clarify the intent of the 25' pile length.
 - i. It appears the piles supporting the FOG tank will be approximately 12' long. Should we carry a 25' length here?
 - ii. The geotechnical report contains a record boring at the new fuel oil tank pad that does not terminate at bedrock. What length pile, including rock embedment, should be assumed here?
- i. **Response:**
 - a. 30 tons compression.
 - b. 3 load tests are sufficient, one at FOG building, one at the FOG tanks, and one at the new fuel oil tank pad.
 - c. See below for reponse:
 - i. 12'-0" with minimum 10'-0" embedment into bedrock per Geotech report is sufficient.
 - ii. Please refer to boring HA-3 provided in the Geotechnical Report which was located in close proximity to the pad (see Figure 2) that encountered refusal on bedrock at a depth of 42.0 ft (El. -26).
- 5. **Question:** Addendum 1, Itemized Proposal, page 2 second and third paragraphs request a bid bond in the amount of 10% of the bid and also a \$100 check or bond. Is this correct?
 - i. **Response:** No, attached is an updated Bid Package. The bid bond shall be in the amount of 10% of the bid.
- 6. **Question:** Clarify Bid Item No. 2 and the excavation soils management plan.
 - a. Bid Item 2 references Section 02 61 50. There is no Section 02 61 50 in the documents. The footer on Section 02 60 00 is labeled Demolition.
 - b. Will the Environmental Consultant referenced in Section 02 60 00 be hired by the Owner or Contractor? If the Owner, how will the Contractor be able to maintain control of the excavation management plan?
 - c. 02 60 00, part 1.06.A.1 states "as part of Bid submittal".
 - i. Confirm the analytical data contained in the Geotechnical report will be indicative of all potential excavated material requiring off-site disposal on the project.
 - ii. Where on the Bid form should this information be provided?
- ii. **Response:**
 - a. Bid Item 2 should reference 02 60 00. The Footer for 02 60 00 should read Excavated Soil and Material Management.
 - b. The Environmental Consultant will be hired by the Owner. The Contractor will provide submittals to the Engineer and Consultant for review and approval. The contractor is responsible for carrying out the work in accordance with the approved plan and coordinating changes with the Engineer and Consultant.
 - c.
 - i. The Geotechnical report is based in part upon data obtained from referenced explorations. The intent of the sample-



in-place and characterization study is to confirm the ultimate disposal requirements.

ii. This will be provided during the shop drawing submittal phase.

7. **Question:** Contract Agreement – Please clarify the following
 - a. Pg. 1, 6th paragraph - Confirm the functional design of the project is the responsibility of the Design Engineer of Record.
 - b. Pg. 1, 7th paragraph states the Contractor will hire and pay for all Special Inspections. Section 01 45 23 (and others) specifies the Special Inspections will be hired and paid for by the Owner. Clarify who is responsible for this work.
- ii. **Response:**
 - a. The functional design of the project is the responsibility of the Design Engineer of Record. The intent of the paragraph is to confirm some work may not be shown that is required for the Work to be complete, functional, and operational and that is the responsibility of the Contractor.
 - b. Special inspections will be hired and paid for by the Owner.
8. **Question:** General Conditions, section 107-06 (Insurance) – Confirm the Owner is providing Property Insurance on the work and that the policy will be written as an All Risk policy.
 - i. **Response:** This will be addressed in Addendum 4.
9. **Question:** Clarify what the Warranty period for the project is.
 - i. **Response:** The Warranty period shall be 1 year from notice of Final Completion.
10. **Question:** Section 01 20 01-3 – Confirm the Owner will be listed as the Generator for the disposal of all regulated material.
 - i. **Response:** Confirmed.
11. **Question:** Section 01 33 00, paragraph 3.02.B.2 – Confirm Procore is an acceptable platform for submittals.
 - i. **Response:** Confirmed.
12. **Question:** Section 01 45 00, paragraph 2.01.B (and others) references a “Construction Manager”. Will this project have a Construction Manager assigned? If so, please clarify who this is.
 - i. **Response:** Construction Manager will be a role provided by the Engineer.
13. **Question:** Section 26 05 00.01 (Common Work for Electrical), paragraph 1.05 - Clarify the corrosive and Hazardous classifications. This is inconsistent with section 01 61 45 and also note 17 on D-63-102.
 - i. **Response:** Refer to changes to Specification Section 26 05 00.01 in this Addendum.
14. **Question:** Section 01 79 00 (Video Recording), paragraph 2.05 – Can the Contractor's qualified personnel complete the video documentation?
 - i. **Response:** Yes, provided they have experience video recording training sessions and use professional video recording equipment.
15. **Question:** 01 91 00 (Commissioning Managers) – Confirm the Commissioning Manager can be an employee of the Contractor, provided they meet the qualifications outlined in paragraph 1.02.D.
 - i. **Response:** Confirmed.



16. **Question:** Section 08 92 00 (Removable flood barriers), paragraph 1.03.6.a – Provide a copy of the FEMA flood proofing certificate.
- i. **Response:** It is the responsibility of the Contractor to fill the building FEMA “Flood Proofing Certificate”.
17. **Question:** Clarifications required for the Building Heating, Cooling and Ventilating systems:
- a. Sheet D-63-102 – Clarify the limits of Sch 40 SS pipe for the HWR & HWS systems for the FOG system.
- b. Sheet M-00-001 – Can you list and define the abbreviations GHWR & GHWS.
- c. There is no control logic or sequence of operation of the equipment being installed in the new FOG building. Can we get some direction on this?
- d. Will there be any adjustments to the existing Plant Odor Control systems due to the added loading?
- ii. **Response:**
- a. Pipe within the FOG Tanks shall be stainless steel.
- b. Glycol Heater Water Return, Glycol Heating Water Supply
- c. Refer to 40 61 13 – 3.05 for Control Strategies
- d. No, the system shall be balanced at the point of connection to the existing system. The existing system will not need to be balanced.
18. **Question:** Section 40 05 10-21, paragraph 3.24 – Do we need to follow the steam cleaning and inert gas testing procedures on this project? If so, clarify what piping systems this will be required on.
- i. **Response:** This is not required on this project.
19. **Question:** Please clarify the following regarding Section 41 22 23.19:
- a. Section 1.02, paragraph D states the vertical lift for the hoist is 4 feet. Drawing S-63-303, shows approximately 13 feet from the bottom of the flange to the floor. Please clarify the vertical lift height for the hoist.
- b. Section 1.01, paragraph C.3 states the hoist and trolley controller drive to be single speed. Section 1.02, paragraph D states the hoist and trolley controller type to be 2 step FVR. Please clarify the drive type for the hoist and trolley.
- ii. **Response:**
- a. Vertical lift shall be from the finished floor elevation to the bottom of the hoist, a minimum of 11.5-ft. This needs to be coordinated with the FOG Screening Equipment.
- b. The drive shall be single speed.

D. RFI 03 Issued 1-26-24

1. **Question:** Drawing M-00-602 - Regarding the closed loop served by pump P-310 on the on the FOG Tank side of HX-401. Should there be an air separator, expansion tank, auto feeder & backflow preventer on the closed loop?
- i. **Response:** Yes, refer to updated drawings M-00-601, M-00-602, M-78-101, and M-80-102.



2. **Question:** Please confirm if the contractor is required to provide the initial fill for the new 12,500-gallon fuel tank.
 - i. **Response:** No, the Contractor will not be required to fill the tank.
3. **Question:** On drawing D-05-101, general note 5 states that a non-slip coating is applied for the horizontal surface of the tank. Please confirm if this is applied at the factory by the tank supplier or it is to be field applied. If field applied, please provide specifications.
 - i. **Response:** This should be applied at the factory by the tank supplier.

E. RFI Issued 1-23-24

1. **Question:** Drawing Number S-00-001 in the Structural Plan sheets, under “Mini-Caisson (Minipile) Notes MP-1, states “Minipiles shall be installed in accordance with project Specifications 31 09 16.20.” Then only mentions lateral load tests in the following notes, MP-2, 3, 4, 5. Please confirm only lateral load tests (ASTM D3966) need to be performed. Also provide the number of lateral load tests that need to be performed.
 - i. **Response:** Lateral load tests are not required.
2. **Question:** Per the the Geotechnical Report “FOG Receiving Station & Fuel Storage Tank Relocation, East Shore Water Pollution Control Facility” by Haley & Aldrich, Inc. dated July 2023, “the total lateral loading is about .3 kip across the foundation and lateral loading per piles is negligible.” If lateral load tests are indeed required per question 1, please provide lateral design load for the minipiles.
 - i. **Response:** Refer to the response to the previous question.
3. **Question:** Drawing Number S-00-001 in the Structural Plan sheets, under “Mini-Caisson (Minipile) Notes MP-1” only states minipiles shall be installed in accordance with project specifications 31 09 16.20. This specification only deals with load testing. Is there a separate specification for the minipile installation? If so, please indicate which specification should be followed.
 - i. **Response:** Specification 31 64 10 should be followed for the installation of piles.
4. **Question:** Please confirm the minipile compression design load is 30 tons as recommended in the Geotechnical Report “FOG Receiving Station & Fuel Storage Tank Relocation, East Shore Water Pollution Control Facility” by Haley & Aldrich, Inc. dated July 2023.
 - i. **Response:** Confirmed.

F. SPECIFICATIONS:

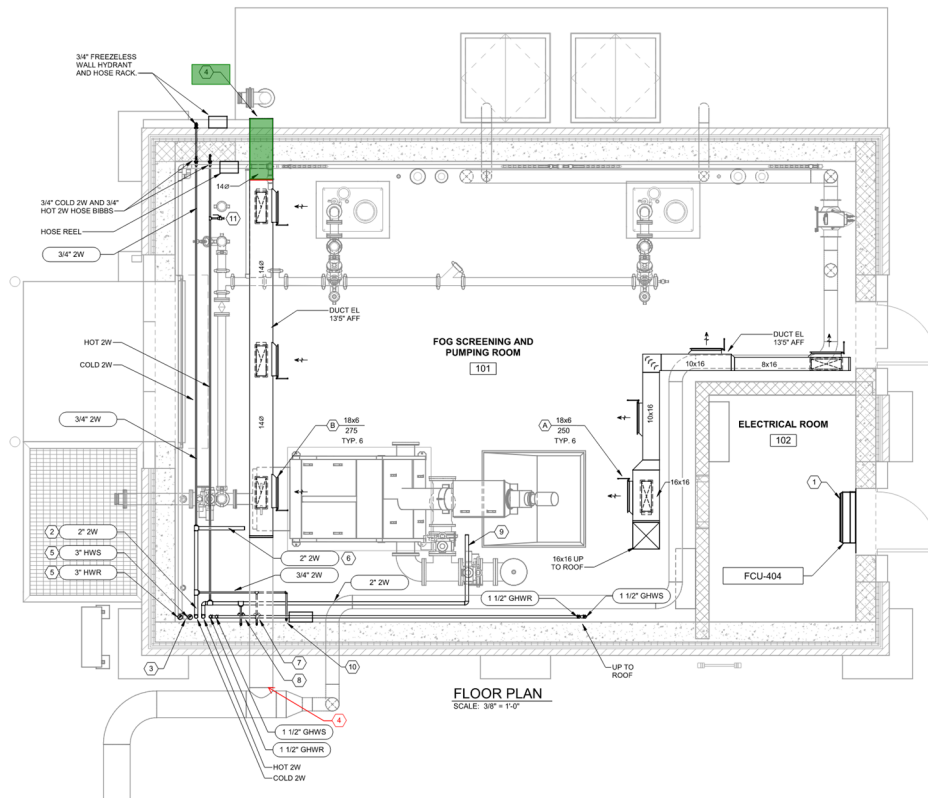
1. **Invitation:** Replace the last sentence of the second paragraph with the following:
 - i. **The project duration is 660 days from the notice to proceed date.**
2. **Invitation:** Replace the last sentence of the fourth paragraph with the following:
 - i. **All questions from Bidders must be received by the Authority via email by Friday, February 2nd, 2024 at 4:00 PM, in order to receive consideration. (emails to: engineering@gnhwpc.com).**



3. **Itemized Proposal:** Replace the first sentence of the second paragraph on page 2 with the following:
 - i. **Accompanying this Proposal is a certified check or bank cashier's check or bid bond payable to the Greater New Haven Water Pollution Control Authority in the amount of \$_____.**
4. **Agreement:** Replace the last sentence of Article 5 with the following:
 - i. **The Contractor shall prosecute the same so that the Project shall be entirely completed no later than 660 days from NTP.**
5. **Agreement:** Delete the following sentence under Article 1.
 - i. **The Contractor shall assume sole responsibility for and shall perform, or cause to be performed, all special inspections and testings required by the Connecticut Building Code, or any other applicable code or regulation, or the relative Contract Documents. To the fullest extent permitted by law, the Contractor shall be liable to Authority for any and all liability, costs, expenses, fines, penalties and attorney's fees resulting from its failure to perform such duties.**
6. **01 20 01 Contingent Unit Price Items (Bid Item Descriptions):** Replace specification reference 02 61 50 in Bid Item 2 Description with:
 - i. **02 60 00**
7. **02 60 00 Excavated Soil and Material Management. Replace footer with the following:**
 - i. **Excavated Soil and Material Management**
8. **26 05 00.01 Common Work Results for Electrical.** Add the following to 1.05.B and C.
 - i. **Paragraph 1.05 PROJECT/SITE CONDITIONS**
 - **B. The following areas are designated as corrosive:**
 - **1. FOG Screening and Pumping Room (FOG Building)**
 - **2. Belt Filter Press Room (Admin Building)**
 - **C. Hazardous (Classified) Areas:**
 - **1. Class 1 Div 2: Within 3' of grease filter located within FOG Building**
9. **40 05 01 Piping Systems.** Delete Section 3.24.
10. **41 22 23.19 Monorail Hoists:**
 - i. Replace Vertical Lift in 1.02.1 with the following:
 - a. **11.5-ft**
 - ii. Replace Hoist and Trolley Controller Type in 1.02.1 with the following:
 - a. **Single Speed**

G. DRAWINGS:

1. Replace A-00-501 in its entirety with the sheet attached to this Addendum.
2. Replace A-63-101 in its entirety with the sheet attached to this Addendum.
3. Replace A-63-301 in its entirety with the sheet attached to this Addendum.
4. Replace A-63-401 in its entirety with the sheet attached to this Addendum.
5. Replace A-63-402 in its entirety with the sheet attached to this Addendum.
6. Replace S-63-107 in its entirety with the sheet attached to this Addendum.
7. Replace S-63-302 in its entirety with the sheet attached to this Addendum.
8. Replace M-00-601 in its entirety with the sheet attached to this Addendum.
9. Replace M-00-602 in its entirety with the sheet attached to this Addendum.
10. Replace M-78-101 in its entirety with the sheet attached to this Addendum.
11. Replace M-80-102 in its entirety with the sheet attached to this Addendum.
12. Refer to markup on M-63-101.





END OF ADDENDUM 3

ENCLOSURES:

- RFI 1 - Site Work Area Plan
- Bid Package
- 1995 RTO Foundation Mat Plan
- A-00-501 – TYPICAL DETAILS 1
- A-63-101 – FLOOR PLAN AND ROOF PLAN
- A-63-301 – SECTIONS AND DETAILS
- A-63-401 – ELEVATIONS 1
- A-63-402 – ELEVATIONS 2
- S-63-107 – ROOF PLAN
- S-63-302 – SECTIONS 2
- M-00-601 – MECHANICAL SCHEDULES
- M-00-602 – FOG RECEIVING SCHEMATICS
- M-78-101 – MAINTENANCE BUILDING BASEMENT PLAN
- M-80-102 – ADMINISTRATION BOILER ROOM PLAN

RFI 1 - Site Work Area Plan

Job Name: 1790 GNH FOG
Location:

Job #:
Bid: 01/04/2024
Existing

1/4/2024
3:25 PM



Greater New Haven Water Pollution Control Authority
Bid Package

Company Name (Bidder): _____

The following separate documents shall be completed and submitted with each bid:

- Itemized Proposal
- Bid Security/Bond
- Statement of Qualifications

ITEMIZED PROPOSAL

For Constructing

PROJECT: IMPROVING FATS OIL AND GREASE RECEIVINGS
PROJECT NO: SSF 2020-03

The Work proposed herein must be completed by (MONTH) (DATE) (YEAR).

Greater New Haven
Water Pollution Control Authority
260 East Street
New Haven, Connecticut 06511

To Whom It May Concern,

In submitting this bid the duly authorized undersigned declares that the entity on behalf of which this bid is made is, or they are, the only person or persons interested in the said bid; that the bid is made without any connection with any person making another bid for the same contract; that the bid is in all respects fair and without collusion, fraud or mental reservation; and that no official of the Greater New Haven Water Pollution Control Authority, or any person in the employ of the Authority is directly or indirectly interested in said bid or in the supplies or work to which it relates, or in any portion of the profits thereof.

The undersigned also hereby declares that they have, either for themselves or on behalf of the entity they represent, carefully examined the Plans, specifications, and form of Contract for this Project, have personally inspected the actual location of the Work and have considered potential local sources of supply, and are satisfied as to all the quantities and conditions, and understands that in signing this Proposal they or the entity that they represent waives all rights to plead any misunderstanding regarding the same.

The undersigned further understands and agrees that they are to furnish and provide for the respective item price bid all the necessary material, machinery, implements, tools, labor, services, and other items of whatever nature, and to do and perform all the Work necessary under the aforesaid conditions, to complete the improvements of the Project, which Plans and specifications it is agreed are a part of this Proposal, and to accept in full compensation therefore the amount of the summation of the products of the approximate quantities multiplied by the unit prices bid. This summation will hereinafter be referred to as the gross sum bid.

The undersigned further agrees to accept the aforesaid unit bid prices in compensation for any additions or deductions caused by any variation in quantities due to more

accurate measurement, or by any changes or alterations in the Plans or specifications of the Work and for use in the computation of the value of the Work performed for monthly estimates.

Every Proposal must be accompanied by a certified check or bank cashier's check or bid bond payable to the Greater New Haven Water Pollution Control Authority in the amount of ten percent (10%) of the bid.

Accompanying this Proposal is a certified check or bank cashier's check or bid bond payable to the Greater New Haven Water Pollution Control Authority in the amount of \$_____. In case this Proposal shall be accepted by the Authority, and the undersigned shall fail to execute the Contract, the monies represented by such certified check or bank cashier's check or bid bond shall be regarded as liquidated damages and shall be forfeited and become the property of the Authority. The undersigned understands and accepts:

- A. When Work is required in which no specific payment item is listed on the Proposal Form, the cost of such Work shall be included in the unit prices bid.
- B. All unit prices, lump sums, etc. listed in the bid Proposal are firm and not subject to change for ninety (90) days from the day bids are opened.
- C. Within ten (10) days from the date of a notice of acceptance of this Proposal, the undersigned agrees to execute the Contract and to furnish to the Authority a satisfactory "Faithful Performance Bond" and "Labor and Material Payment Bond" in the amount of one hundred percent (100%) of the Contract price.
- D. Time is of the Essence. All Work to be performed under the Contract shall be completed within the time stated in the Agreement for the Project or within such extended time for completion as may be granted by the Authority.
- E. As a condition of the Contract Award, the successful Bidder shall provide proof, from the Connecticut Secretary of State's office, of its current authorization to do business in Connecticut. All Connecticut corporations must provide a Certificate of Good Standing from the Secretary of State's Office. All foreign (out of State) corporations shall provide a valid license to do business in Connecticut, in the form of a current Certificate of Authority from the Secretary of State's office and evidence of compliance with the bond

requirements of the Connecticut Department of Revenue Services. These documents must be presented within thirty (30) days from the date of the bid opening.

Bidder acknowledges receipt of the Addenda listed below and further acknowledges that the provisions of each Addendum have been included in the preparation of this bid.

Addendum No.	Date Received	Addendum No.	Date Received
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

BID ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE	TOTAL PRICE
1	General Construction	LS	1	_____ Figures (_____ _____) Words	_____ Figures (_____ _____) Words
2	Handling and disposal of regulated materials from excavation activities in accordance with Section 02 61 50, Handling, Transportation, and Disposal of Regulated Materials	CY	700	_____ Figures (_____ _____) Words	_____ Figures (_____ _____) Words
3	Handling and disposal of regulated materials from dewatering activities in accordance with Section 02 61 50, Handling, Transportation, and Disposal of Regulated Materials	Allowance	1	<u>\$50,000.00</u> Figures (Fifty Thousand Dollars and No Cents) Words	<u>\$50,000.00</u> Figures (Fifty Thousand Dollars and No Cents) Words
4	Miscellaneous Fuel Oil repairs in accordance with Section 01 20 00	Allowance	1	<u>\$20,000.00</u> Figures (Twenty Thousand Dollars and No Cents) Words	<u>\$20,000.00</u> Figures (Twenty Thousand Dollars and No Cents) Words

Bid Summary

Lump Sum Bid Price Bid Item 1 \$ _____

Total Unit Bid Prices Bid Items 2, 3, 4 \$ _____

Total Bid (Bid Items 1, 2, 3, 4) \$ _____

Total Bid (words) _____

_____ dollars
and _____ cents

COMPANY NAME (BIDDER): _____

Address of Bidder: _____

Phone Number: Area Code (_____) _____

E-mail Address: _____

I hereby sign this document acting within my authority as a duly authorized representative of the named Bidder. By signing below, I certify, acknowledge and affirm that the information set forth in this document is true, accurate and complete to the best of my knowledge and belief.

Signature of Bidder: _____ **Dated:** _____

Name and Addresses of Members of the Firm:

Attachments to this Bid

The following documents are attached to and made a condition of this Bid:

1. Itemized Proposal
2. Bid Security/Bond
3. Statement of Qualifications

STATEMENT OF QUALIFICATIONS

Bidder

Address

Similar Projects Completed by Bidder:

1. **NAME OF PROJECT:** _____
OWNER: _____ **ADDRESS:** _____
DATE STARTED: _____ **DATE COMPLETED:** _____
APPROX. QUANTITIES OF MAJOR ITEMS: _____

VALUE OF CONTRACT: _____
2. **NAME OF PROJECT:** _____
OWNER: _____ **ADDRESS:** _____
DATE STARTED: _____ **DATE COMPLETED:** _____
APPROX. QUANTITIES OF MAJOR ITEMS: _____

VALUE OF CONTRACT: _____
3. **NAME OF PROJECT:** _____
OWNER: _____ **ADDRESS:** _____
DATE STARTED: _____ **DATE COMPLETED:** _____
APPROX. QUANTITIES OF MAJOR ITEMS: _____

VALUE OF CONTRACT: _____
4. **OTHER PROJECT REFERENCES:** _____

REVISIONS

REV	DATE	DESCRIPTION
1	01/2024	ADDENDUM 3

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: S.GRAMKOW

DRAWN: S.GRAMKOW

CHECKED: D.WALDROP

CHECKED: D.WALDROP

APPROVED: D.WALDROP

FILENAME

BC PROJECT NUMBER

159111

CLIENT PROJECT NUMBER

XX

ARCHITECTURAL

TYPICAL DETAILS 1

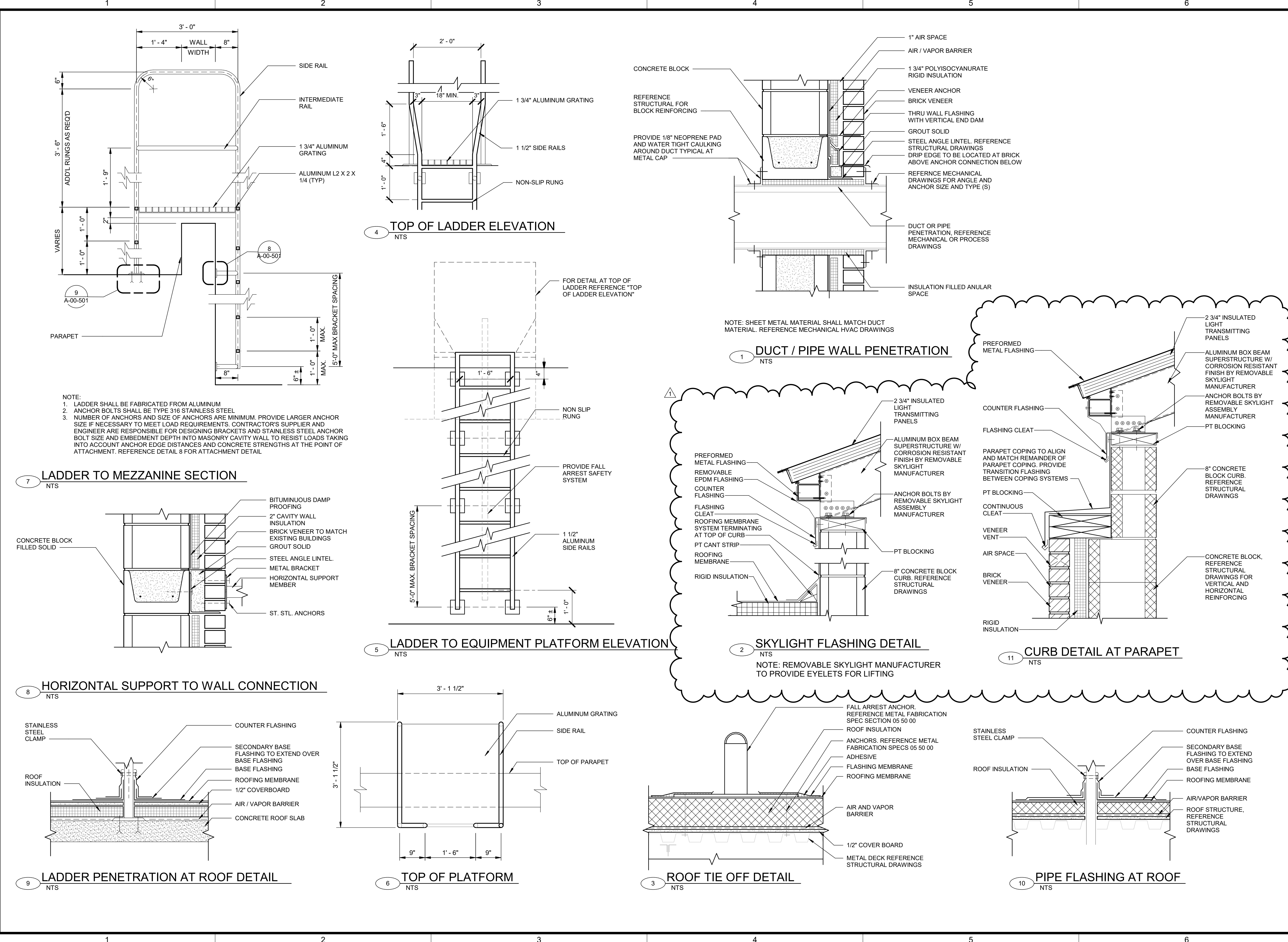
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A-00-501

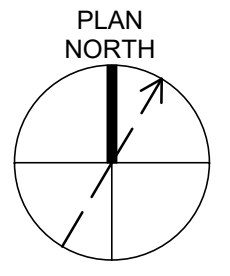
36

SHEET NUMBER OF

112



Plot Date: 1/25/2024 5:11:03 PM Path: BIN_360/159111 - GNHWPCA FOG Receiving Station/159111_A_05_V21.rvt



GENERAL NOTES:

1. HP - INDICATES HIGH POINT OF TAPERED RIGID ROOF INSULATION X" ABOVE THE TOP OF STRUCTURE AND 1/2" COVERBOARD
2. LP - INDICATES LOW POINT OF TAPERED RIGID ROOF INSULATION X" ABOVE THE TOP OF STRUCTURE AND 1/2" COVERBOARD
3. PROVIDE 1/4" PER FOOT MINIMUM SLOPE FOR TAPERED ROOF INSULATION

ROOF LEGEND:

→ INDICATES SLOPE OF ROOF

KEYNOTES:

- 1 METAL COPING CAP
- 2 OVERHEAD COILING DOOR CONTROL STATION
- 3 BOLLARD, TYPICAL
- 4 METAL LADDER OVER PARAPET, PROVIDE REQUIRED FALL SAFETY PROTECTION REQUIRED BY OSHA. SEE DETAIL ON A-00-501. COORDINATE LOCATION WITH ROOF EQUIPMENT AND ADJACENT BUILDING AND GROUND EQUIPMENT
- 5 ALUMINUM CONDUCTOR HEAD, SCUPPER AND DOWNSPOUT
- 6 ACCESS HATCHES, REFERENCE STRUCTURAL DRAWINGS
- 7 AIR HANDLING UNIT, REFERENCE MECHANICAL DRAWINGS
- 8 HEAT PUMP, REFERENCE MECHANICAL DRAWINGS
- 9 LADDER SAFETY RAILING AND GATE
- 10 PROCESS EQUIPMENT, REFERENCE PROCESS DRAWINGS
- 11 ROOF TIE-OFF ANCHOR, SEE DETAIL 3/A-00-501
- 12 BITUMINOUS ROOFING SYSTEM
- 13 ROOF SUMP AT SCUPPER
- 14 CONTROL PANEL, REFERENCE PROCESS DRAWINGS
- 15 STOP-GATE FLOOD BARRIER, REFERENCE SPECIFICATION SECTION 08 92 00
- 16 PROVIDE CUSTOM VERTICAL WALL FLASHING AND TRANSITION FLASHING TO CAP PARAPET WALL INTERSECTION. COORDINATE WITH ROOFING SYSTEM MANUFACTURER, TYPICAL
- 17 REMOVABLE TRANSLUCENT SKYLIGHT, TYPICAL



BID DOCUMENTS
NOVEMBER 2023



IMPROVING FATS OIL AND GREASE RECEIVINGS
GREATER NEW HAVEN
WATER POLLUTION
CONTROL AUTHORITY

REVISIONS

REV	DATE	DESCRIPTION
1	01/2024	ADDENDUM 3

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: S.GRAMKOW
DRAWN: S.GRAMKOW
CHECKED: D.WALDRUP
APPROVED: D.WALDRUP

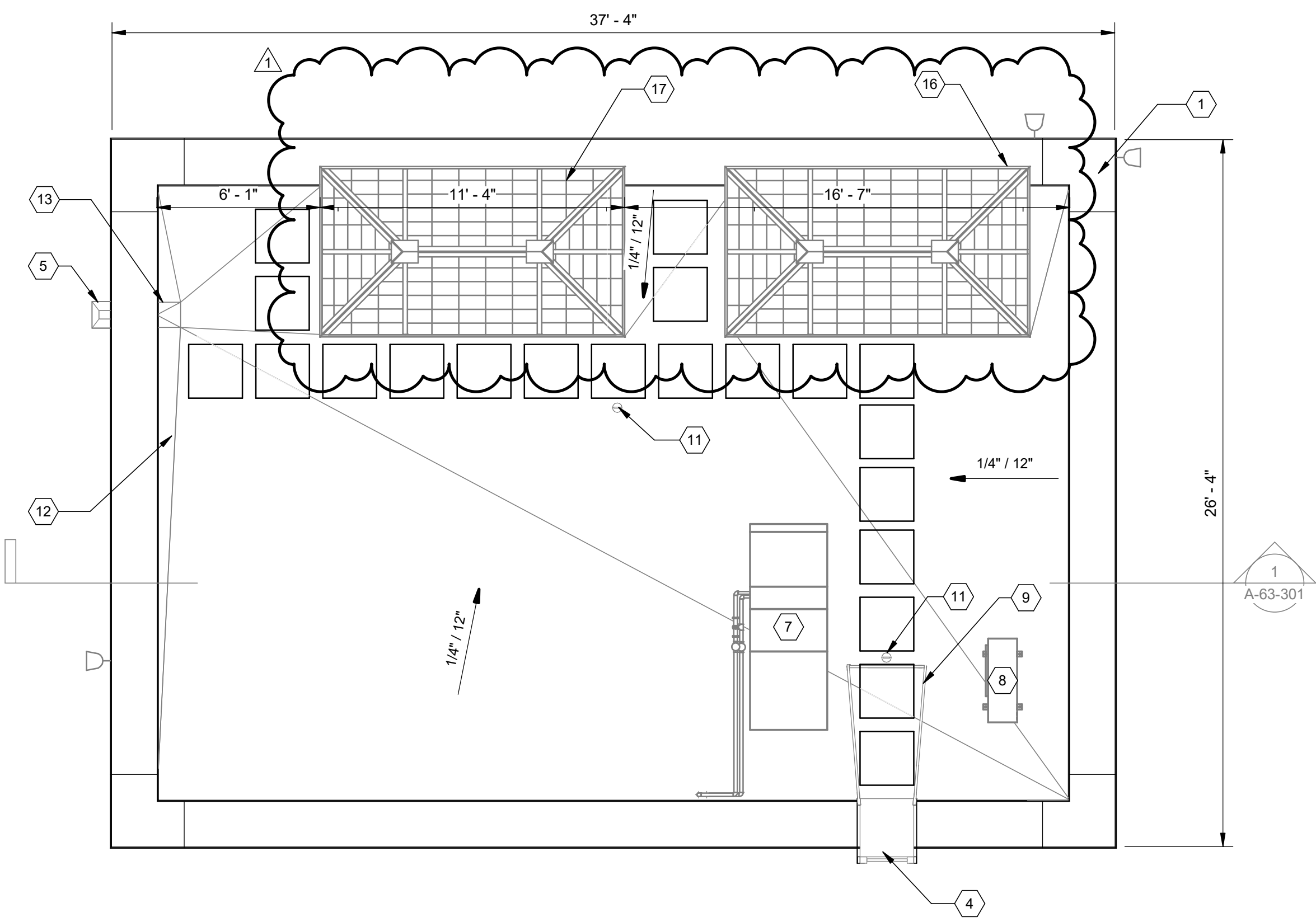
FILENAME
BC PROJECT NUMBER
159111
CLIENT PROJECT NUMBER
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ARCHITECTURAL

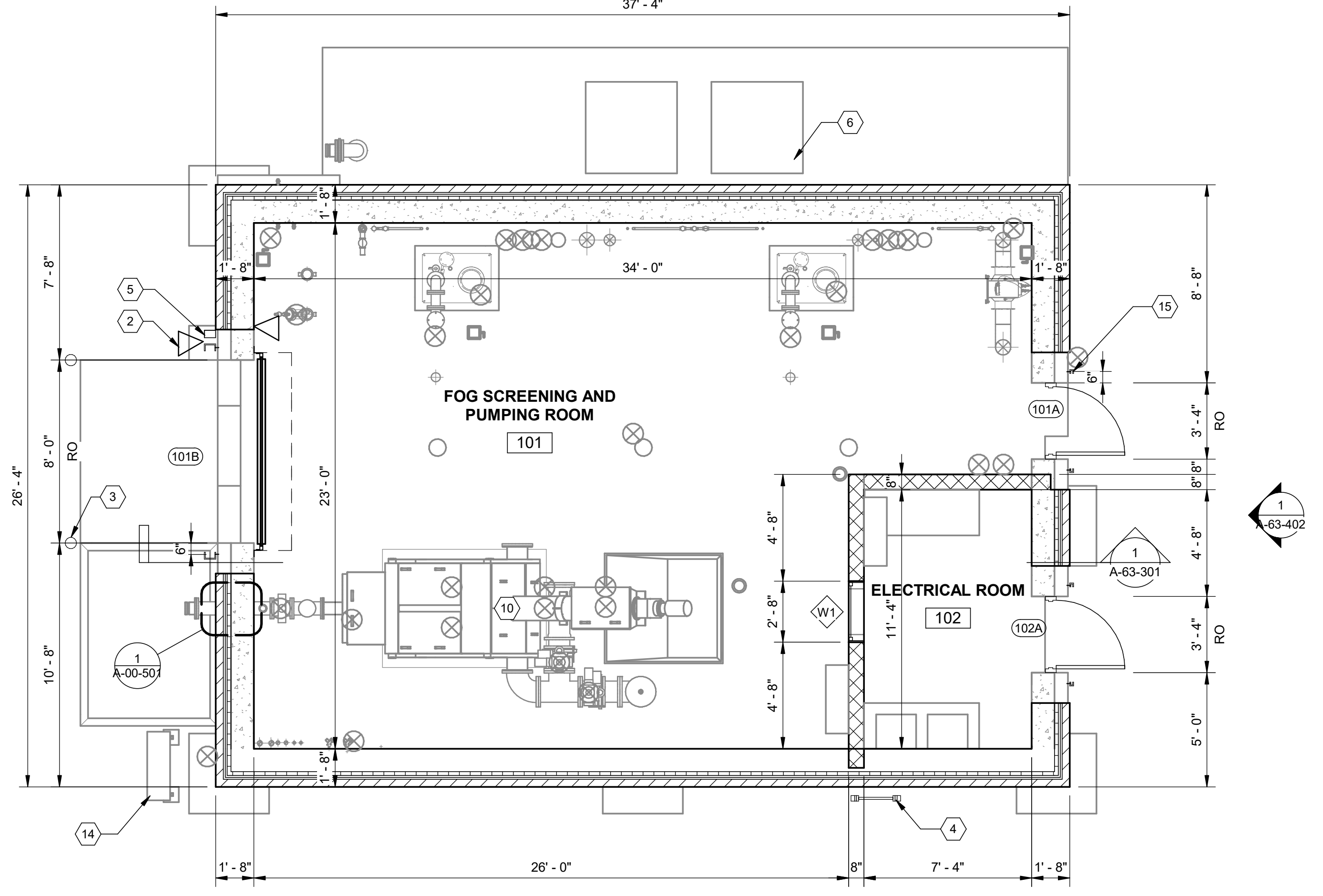
FLOOR PLAN AND ROOF PLAN

DRAWING NUMBER
A-63-101

38 SHEET NUMBER OF 112



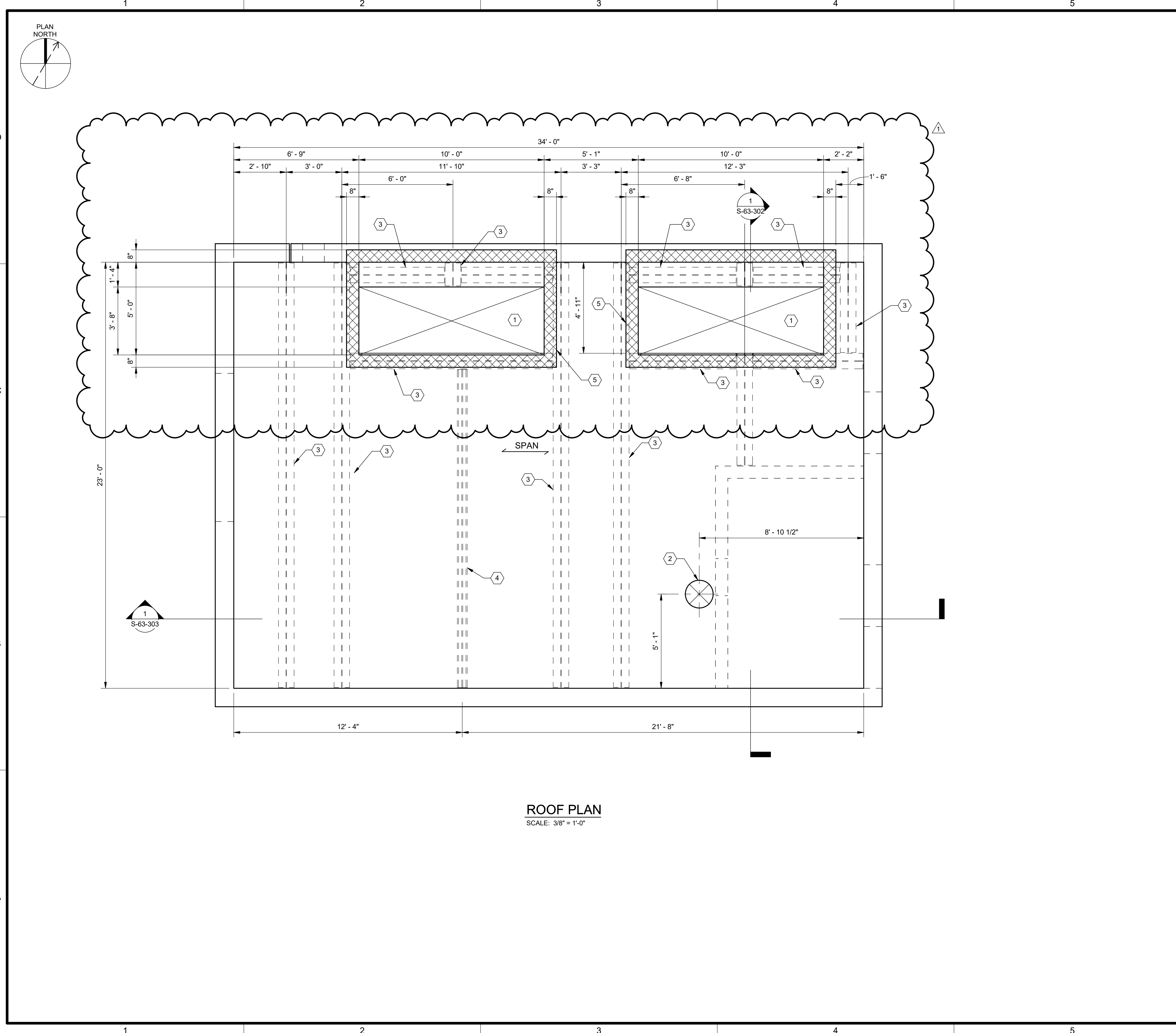
ROOF PLAN
SCALE: 1/4" = 1'-0"



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

Plot Date: 1/25/2024 5:11:05 PM Path: BIN 360/159111 - GNHWPCA FOG Receiving Station/159111_A_05_V21.rvt

Plot Date: 1/25/2024 1:50:26 PM Path: BIN 360//159111 - GNHWPCA FOG Receiving Station/159111_S_63_V21.rvt



ROOF PLAN
SCALE: 3/8" = 1'-0"

COMPOSITE STEEL FLOOR DECK NOTES:

1. DECKING SHALL BE VULCRAFT MANUFACTURING COMPANY 1.5VLI COMPOSITE DECK PROFILE 9'-0" SPAN, 18 GAUGE, GALVANIZED (G-60), OR APPROVED EQUAL.
 - A. TOPPING THICKNESS = 2"
 - B. TOTAL DECK THICKNESS = 3.5"
 - C. $I_p = 0.272$ IN 4/FT
 - D. $S_p = 0.311$ IN 4/FT
 - E. $I_c = 0.295$ IN 4/FT
 - F. $S_c = 0.324$ IN 4/FT
 - G. $F_y = 50$ KSI
2. COMPOSITE DECK SHALL BE ATTACHED TO ALL SUPPORTS AS INDICATED BELOW, BUT MORE ATTACHMENTS SHALL BE MADE IF REQUIRED BY THE DECK MANUFACTURER TO DEVELOP THE MINIMUM SHEAR CAPACITY LISTED BELOW:
3. INDICATES DIRECTION OF DECK SPAN.

MINIMUM SHEAR CAPACITY	4350 LBS/FT
SUPPORT PERPENDICULAR TO DECK SPAN	MIN 7-3/4" PUDDLE WELDS PER 36" WIDE PANEL
SUPPORTS PARALLEL TO DECK SPAN	MIN 3/4" PUDDLE WELDS @ 12" MAX SPACING
DECK SEAMS PARALLEL TO DECK SPAN	MIN 3/4" PUDDLE WELDS @ 12" MAX SPACING

- KEYNOTES:**
- 1 10'-0" x 3'-8" OPENING IN METAL DECK.
 - 2 18"Ø OPENING IN METAL DECK.
 - 3 W10x60 BEAM.
 - 4 3-TON MONORAIL BEAM, S20x75 BELOW
 - 5 8" CMU CURB, SEE SECTIONS FOR CURB HEIGHT.



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IMPROVING FATS OIL AND GREASE RECEIVINGS
GREATER NEW HAVEN
WATER POLLUTION CONTROL AUTHORITY

REVISIONS

REV	DATE	DESCRIPTION
1	01/2024	ADDENDUM 3

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J.SANOSSIAN
DRAWN: R.BLUMENSHINE
CHECKED: J.MINADEO
CHECKED:
APPROVED: J.MINADEO

FILENAME

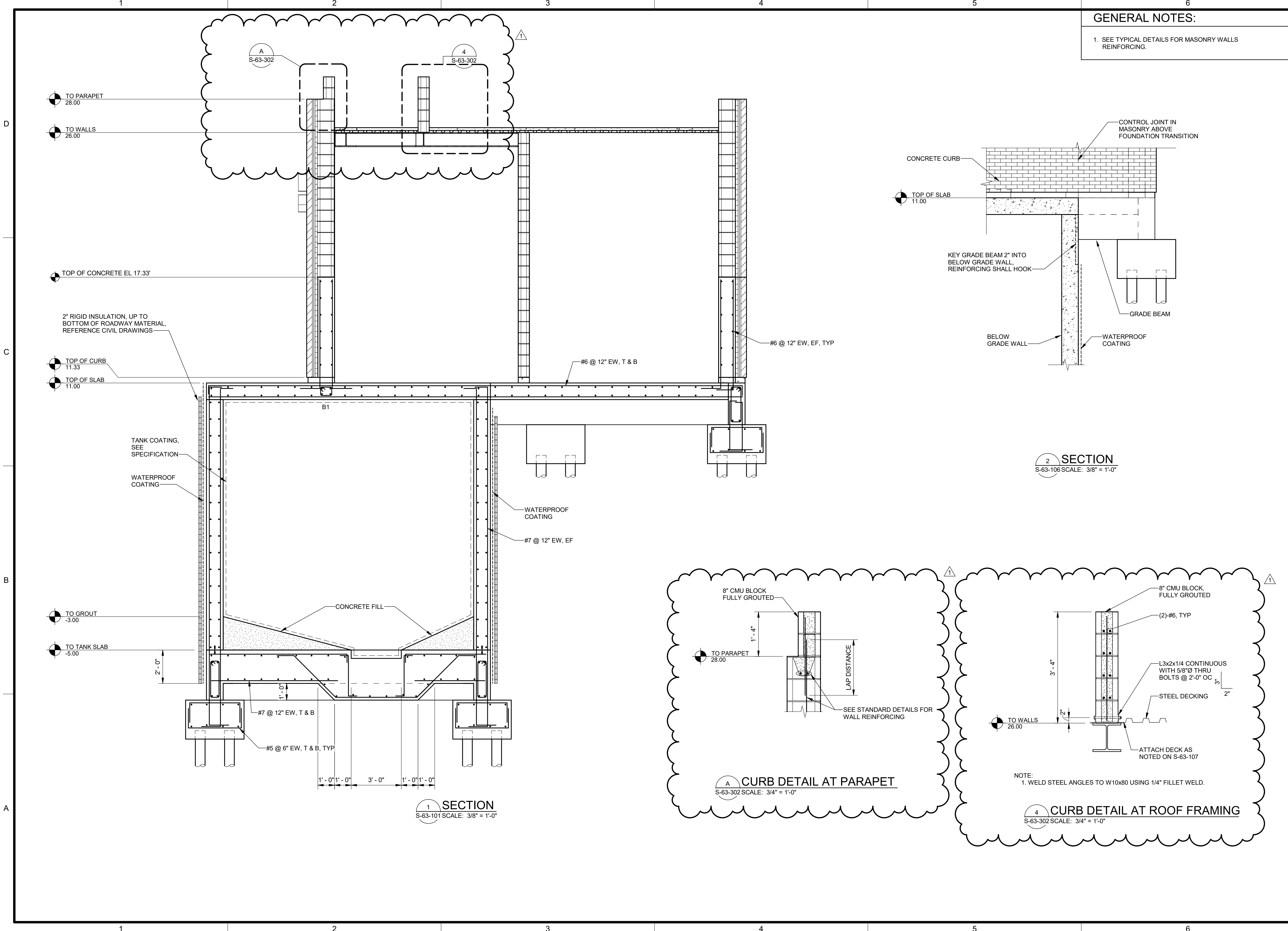
BC PROJECT NUMBER
159111
CLIENT PROJECT NUMBER
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STRUCTURAL

ROOF PLAN

DRAWING NUMBER
S-63-107

Plot Date: 1/24/2024 1:39:45 PM Path: BIN 360//159111 - GNHWPCA FOG Receiving Station/159111_S_63_V21.rvt



GENERAL NOTES:
 1. SEE TYPICAL DETAILS FOR MASONRY WALLS REINFORCING.

Brown AND Caldwell
 ENVIRONMENTAL ENGINEERING AND CONSULTING
 200 Brickstone Sq Ste 403, Andover, MA 01810
 (978) 794-0336

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**IMPROVING FATS OIL AND GREASE RECEIVINGS
 GREATER NEW HAVEN
 WATER POLLUTION
 CONTROL AUTHORITY**

REVISIONS

REV	DATE	DESCRIPTION
1	01/2024	ADDENDUM 3

DESIGNED: J.SANOSSIAN
 DRAWN: R.BLUMENSHINE
 CHECKED: J.MINADEO
 APPROVED: J.MINADEO

BC PROJECT NUMBER
 159111
 CLIENT PROJECT NUMBER
 XX

STRUCTURAL

SECTIONS 2

DRAWING NUMBER
S-63-302
 SHEET NUMBER OF
 31 OF 91

AHU SCHEDULE

TAG	MANUFACTURER	MODEL	SUPPLY AIRFLOW (CFM)	FANS			ELECTRICAL					HEATING COIL							OPERATING WEIGHT (LBS)	NOTES						
				AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN-WG)	TOTAL STATIC PRESSURE (IN-WG)	QUANTITY	MOTOR VOLTAGE (V)	FAN HP	FAN BHP	FLA (A)	MCA (A)	MAX FUSE SIZE (A)	SYSTEM TYPE	FACE VELOCITY (FPM)	ROWS	ENTERING DB (F)	LEAVING DB (F)			TOTAL CAPACITY (BTUH)	ENTERING FLUID TEMP (F)	LEAVING FLUID TEMP (F)	AIR PRESSURE DROP (IN-WG)	FLUID FLOWRATE (GPM)	FLUID PRESSURE DROP (FT-WG)
AHU-401	TRANE	CSAA003	1,500	1,500	0.65	0.70	1	120/1	1 1/2	1.074	2.00	2.50	15.00	HOT WATER	600	1	8	75	109,000	200	180	0.195	10.86	0.94	1000	1, 2, 3, 4

- UNIT SHALL HAVE EPOXY COATED HW COIL.
- UNIT SHALL HAVE STAINLESS STEEL INNER LINER, STAINLESS STEEL DRAIN PANS, & STAINLESS STEEL COIL CASING AND SUPPORTS.
- UNIT SHALL HAVE FOAM 2" DOUBLE WALL CONSTRUCTION WITH ROBUST THERMAL BREAK AND MFR SHALL GUARANTEE UNIT WILL NOT SWEAT AT OPERATING DESIGN CONDITIONS OR PAY TO RESOLVE SWEATING ISSUE IN THE FIELD.
- HOT WATER LOOP CONTAINS 50% ETHYLENE GLYCOL BY VOLUME.

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE	LOCATION	TYPE	EAST SYSTEM	FLUID	GLYCOL	FLOW RATE (GPM)	FLUID TEMP (DEG F)	TOTAL HEAD (FT-WG)	PIPE CONNECTIONS		ELECTRICAL				WEIGHT (LBS)	NOTES
												SUCTION SIZE (NOM IN)	DISCHARGE SIZE (NOM IN)	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLT/ PH	VFD (Y/N)		
P-111	BELL & GOSSETT	MINIBOOST EXTREME	MBX1A20D	ADMINISTRATION BLDG	IN-LINE	HEATING WATER	WATER	N/A	33	200	100	1.5	1.5	2	1800	480/3	N	182	1
P-310	BELL & GOSSETT	e-80	2x2x9.5C	ADMINISTRATION BLDG	IN-LINE	HEATING WATER	WATER	N/A	145	180	75	2	2	5	1800	480/3	Y	195	
P-400	BELL & GOSSETT	ECOCIRC XL	45-375	MAINTENANCE BLDG	IN-LINE	HEATING WATER	WATER	50% ETHYLENE	202	200 - 180	10	2.5	2.5	3	2301	480/3	N	50	
P-410	BELL & GOSSETT	e-80	3x3x11B	MAINTENANCE BLDG	IN-LINE	HEATING WATER	WATER	50% ETHYLENE	220	200 - 180	91	3	3	10	1800	480/3	Y	375	
P-420	BELL & GOSSETT	e-80	3x3x11B	MAINTENANCE BLDG	IN-LINE	HEATING WATER	WATER	50% ETHYLENE	220	200 - 180	91	3	3	10	1800	480/3	Y	375	

- MINIBOOST EXTREME PUMP SKID SHALL BE PROVIDED WITH A BELL & GOSSETT SERIES PTA-80V EXPANSION TANK, OR APPROVED EQUAL.

FAN COIL SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	LOCATION	CONDENSING UNIT	PEAK AIRFLOW (CFM)	COOLING			HEATING		MCA	VOLT/ PHASE	NOTES
							COOLING CAPACITY (MBH)	COOLING DESIGN ENTERING TEMP DB/WB (F)	SENSIBLE HEAT FACTOR	HEATING CAPACITY (MBH)	HEATING DESIGN ENTERING TEMP DB (F)			
FCU-404	TRANE	TPKA0A0181LA00A	WALL MOUNTED	ELECTRICAL ROOM	HP-403	455	18.0	80	0.73	13.6	60	1.0	208/1	1

- INDOOR UNIT SHALL BE POWERED BY THE CORRESPONDING OUTDOOR UNIT.

HEAT PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	COOLING		HEATING		EER	ELECTRICAL			NOTES
			COOLING CAPACITY (MBH)	DESIGN COOLING OA TEMP DB (F)	HEATING CAPACITY (MBH)	DESIGN HEATING OA TEMP DB (F)		VOLT/ PHASE	MCA	MOCP	
HP-403	TRANE	TRUZA0181KA70BA	18.0	87	13.6	8	10.7	208/1	11.0	28	1

- INCLUDE LOW AMBIENT CONTROLS.

INDIRECT WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING HOT WATER			CAPACITY (GAL)
			SUPPLY TEMP (F)	RETURN TEMP (F)	FLOW RATE (GPM)	
HTR-101	BRADFORD WHITE	SW-120C-5	200	190	20	107

GRILLES, DIFFUSERS, AND REGISTERS SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	SIZE (WxH)	NOTES
A	TITUS	300	SUPPLY	18x6	
B	TITUS	350	EXHAUST	20x20	

BOILER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	GAS				OIL				FIREBOX PRESSURE (IN WC)	VENT DIAMETER (IN)	WEIGHT (LBS)	NOTES
				INPUT (MBH)	OUTPUT (MBH)	COMBUSTION EFFICIENCY	THERMAL EFFICIENCY	INPUT (GPH)	OUTPUT (MBH)	COMBUSTION EFFICIENCY	THERMAL EFFICIENCY				
BLR-400	BURNHAM	MPC14	DUAL FUEL	2,769	2,323	85.8%	83.9%	19.2	2,323	88.5%	86.5%	1.14	12	7,015	1, 2, 3, 4, 5, 6

- INSTALL BOILER IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTION AND CONNECTICUT CODE REQUIREMENTS.
- PROVIDE BOILER AS SHOWN, OR APPROVED EQUAL.
- COMMON VENTING SHALL BE IN ACCORDANCE WITH PUBLISHED MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- BOILER SHALL BE PROVIDED WITH BELL AND GOSSETT ROLAIRTROL RL-4F AIR SEPARATOR OR APPROVED EQUAL (AS-411).
- BOILER SHALL BE PROVIDED WITH BELL AND GOSSETT EXPANSION TANK SIZED FOR HYDRONIC LOOP SHOWN ON SHEET M-00-602 OR APPROVED EQUAL (ET-412).
- BOILER SHALL BE PROVIDED WITH NEPTUNE DBF-5HP CHEMICAL POT FEEDER OR APPROVED EQUAL (GF-413).

PLUMBING FIXTURE SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	NOTES
FD-1	ZURN	Z415	CAST IRON BODY WITH BOTTOM OUTLET. INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR.	
CO-1	ZURN	Z1400	LEVEL TROL ADJUSTABLE FLOOR CLEANOUT	

EXPANSION TANK SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	VOLUME	DESCRIPTION	WEIGHT	NOTES
ET-412	TACO	CA215	BLADDER	57	BLADDER TYPE EXPANSION TANK	800	
ET-413	TACO	CA90	BLADDER	23	BLADDER TYPE EXPANSION TANK	350	

AIR SEPARATOR SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	WEIGHT	NOTES
AS-411	TACO	AC04F	FLANGED TANGENTIAL AIR SEPARATOR WITH STRAINER	300	
AS-412	TACO	AC03F	FLANGED TANGENTIAL AIR SEPARATOR WITH STRAINER	250	



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IMPROVING FATS OIL AND GREASE RECEIVINGS
GREATER NEW HAVEN
WATER POLLUTION CONTROL AUTHORITY

REVISIONS

REV	DATE	DESCRIPTION
1	01/2024	ADDENDUM 3

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J.BUTLER

DRAWN: J.BUTLER

CHECKED: D.STEWART

CHECKED:

APPROVED: D.STEWART

FILENAME

BC PROJECT NUMBER

159111

CLIENT PROJECT NUMBER

XX

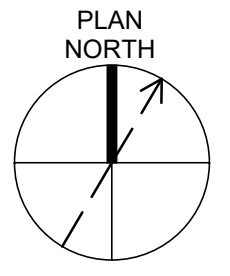
BUILDING MECHANICAL

MECHANICAL SCHEDULES

DRAWING NUMBER

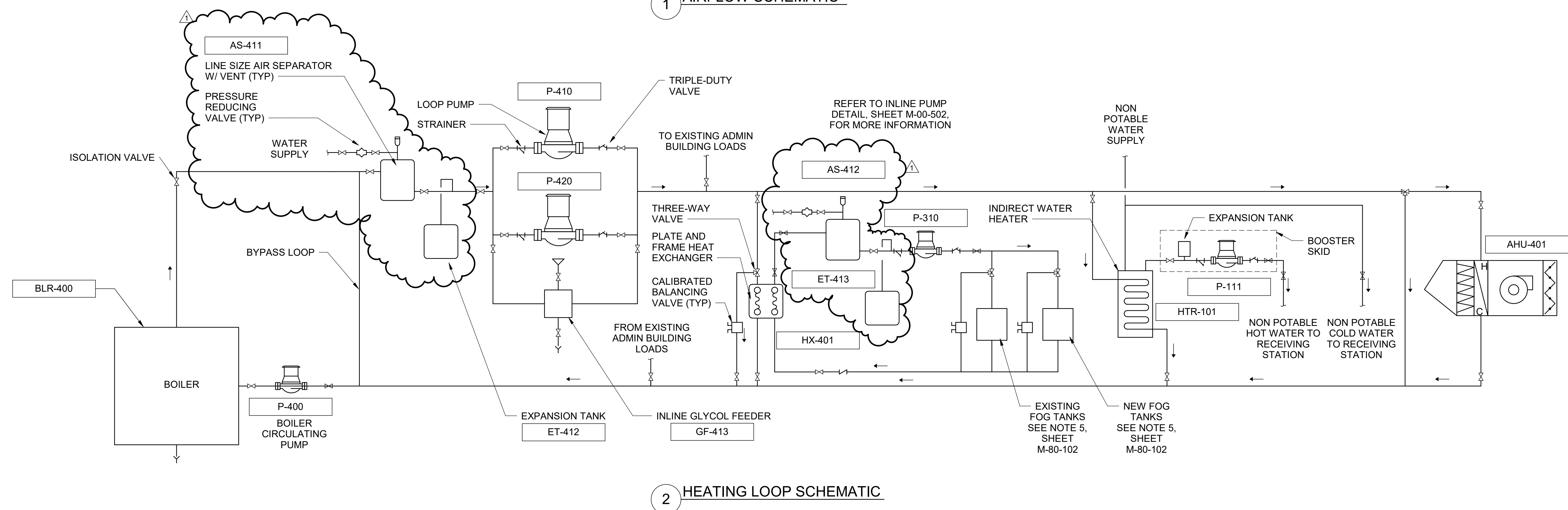
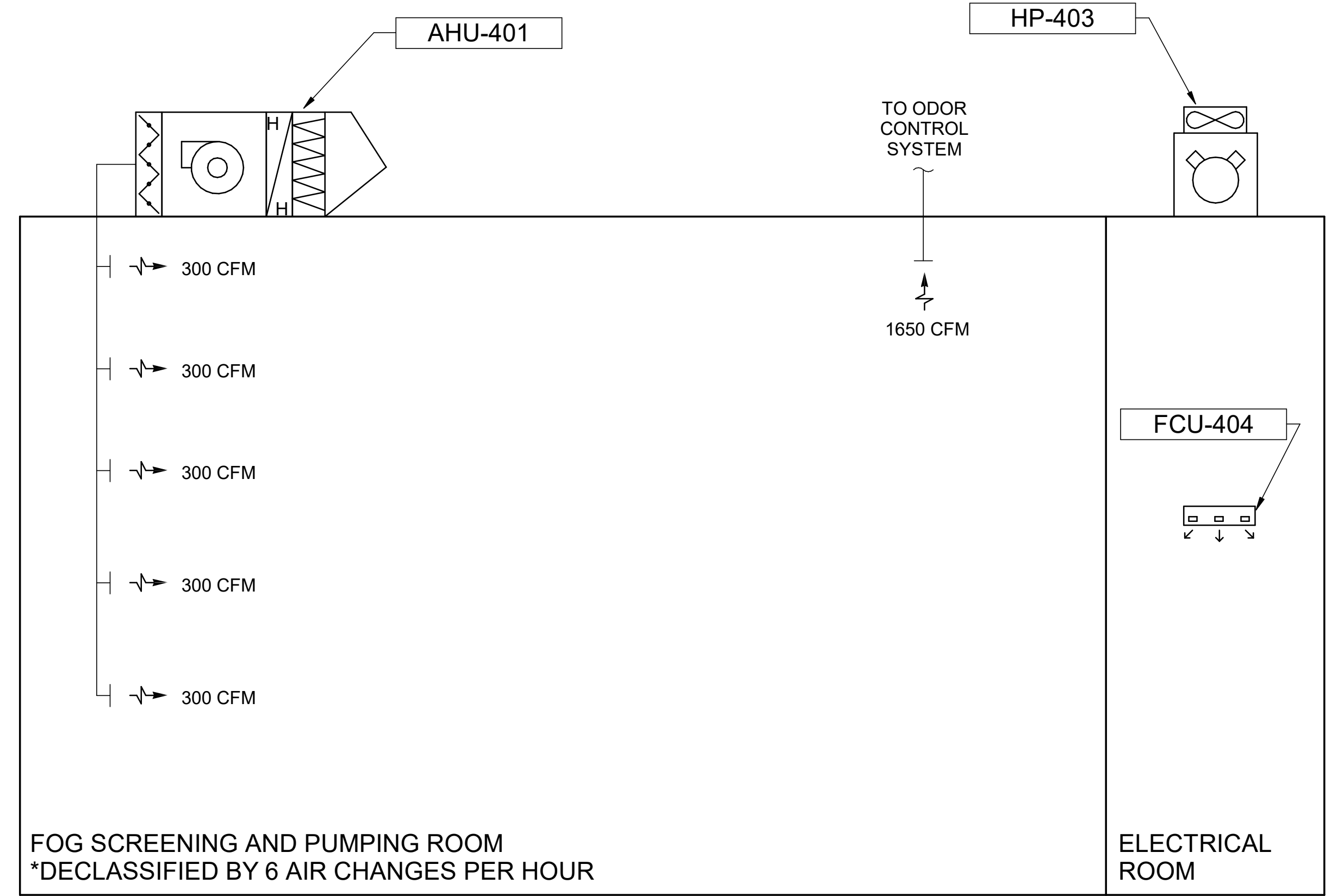
M-00-601

65 SHEET NUMBER OF 109



GENERAL NOTES:

1. SCHEMATICS SHALL BE USED IN CONJUNCTION WITH THE PLAN DRAWINGS, SCHEDULES, SPECIFICATIONS, AND PIPING AND INSTRUMENTATION DIAGRAMS TO ENSURE PROPER INSTALLATION OF THE SYSTEMS.
2. HEATING LOOP SHOWN SHALL INCLUDE 50% ETHYLENE GLYCOL BY VOLUME.



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NOVEMBER 2023



IMPROVING FATS OIL AND GREASE RECEIVINGS
GREATER NEW HAVEN
WATER POLLUTION
CONTROL AUTHORITY

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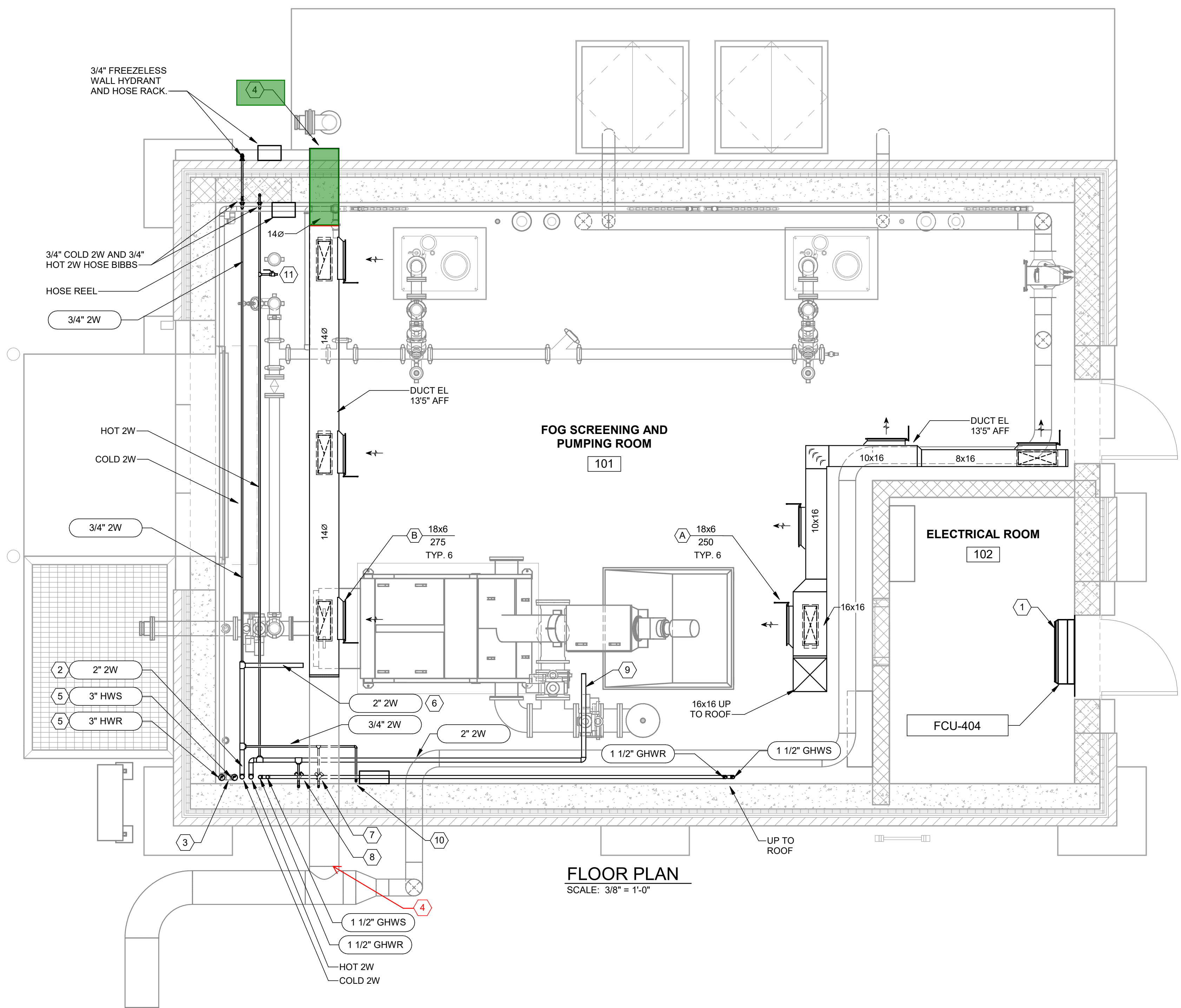
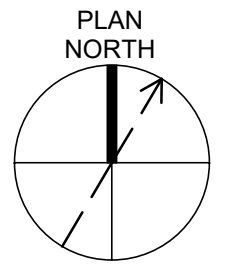
DESIGNED: J.BUTLER
DRAWN: J.BUTLER
CHECKED: D.STEWART
APPROVED: D.STEWART

FILENAME
BC PROJECT NUMBER
159111
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BUILDING MECHANICAL
FOG RECEIVING
SCHEMATICS

DRAWING NUMBER
M-00-602
SHEET NUMBER
66 OF 109

Plot Date: 1/31/2024 3:21:03 PM Path: BIN 360//159111 - GNHWPCA FOG Receiving Station/159111_M_00_V21.rvt



FLOOR PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES:

1. FOG SCREENING AND PUMPING ROOM SHALL BE DECLASSIFIED THROUGH SIX (6) AIR CHANGES PER HOUR.
2. INSULATE ALL 2W HOT AND 2W COLD PIPING.

KEYNOTES:

1. FAN COIL UNIT SHALL BE MOUNTED ABOVE THE ELECTRICAL ROOM DOOR. ROUTE FAN COIL UNIT CONDENSATE DRAIN TO THE NEAREST FLOOR DRAIN. CONDENSATE DRAIN AND REFRIGERANT LINES SHALL NOT BE ROUTED ABOVE ELECTRICAL EQUIPMENT.
2. CONNECT 2W PIPING TO FOG SCREENING EQUIPMENT. REFER TO PROCESS MECHANICAL SHEETS FOR FOG SCREENING INFORMATION.
3. HYDRONIC PIPING DOWN TO THE TUNNEL BELOW. REFER TO SHEET M-80-102 FOR CONTINUATION.
4. CONNECT 14" FRP DUCTWORK TO 16" FRP DUCTWORK SHOWN ON THE PROCESS MECHANICAL DRAWINGS.
5. CONNECT 3" HOT WATER SUPPLY AND RETURN TO FOG TANK HEAT EXCHANGERS. REFER TO PROCESS MECHANICAL SHEETS FOR HEAT EXCHANGER INFORMATION.
6. FIELD ROUTE 2W COLD WATER TO SCREENING UNIT PROCESS CONNECTIONS.
7. 3/4" HOT 2W DOWN TO HOSE BIB.
8. 3/4" COLD 2W DOWN TO HOSE BIB.
9. FIELD ROUTE 2W HOT WATER TO SCREENING UNIT PROCESS CONNECTIONS.
10. 3/4" COLD 2W DOWN TO HOSE REEL.
11. 3/4" HOT 2W. SEE SHEET D-63-101 FOR CONTINUATION.



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IMPROVING FATS OIL AND GREASE RECEIVINGS
GREATER NEW HAVEN
WATER POLLUTION CONTROL AUTHORITY

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: J.BUTLER
DRAWN: J.BUTLER
CHECKED: D.STEWART
CHECKED:
APPROVED: D.STEWART

FILENAME

BC PROJECT NUMBER
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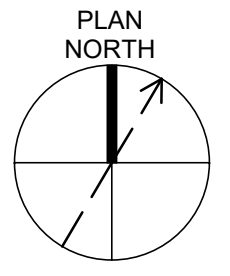
BUILDING MECHANICAL

**RECEIVING STATION
GROUND FLOOR
PLAN**

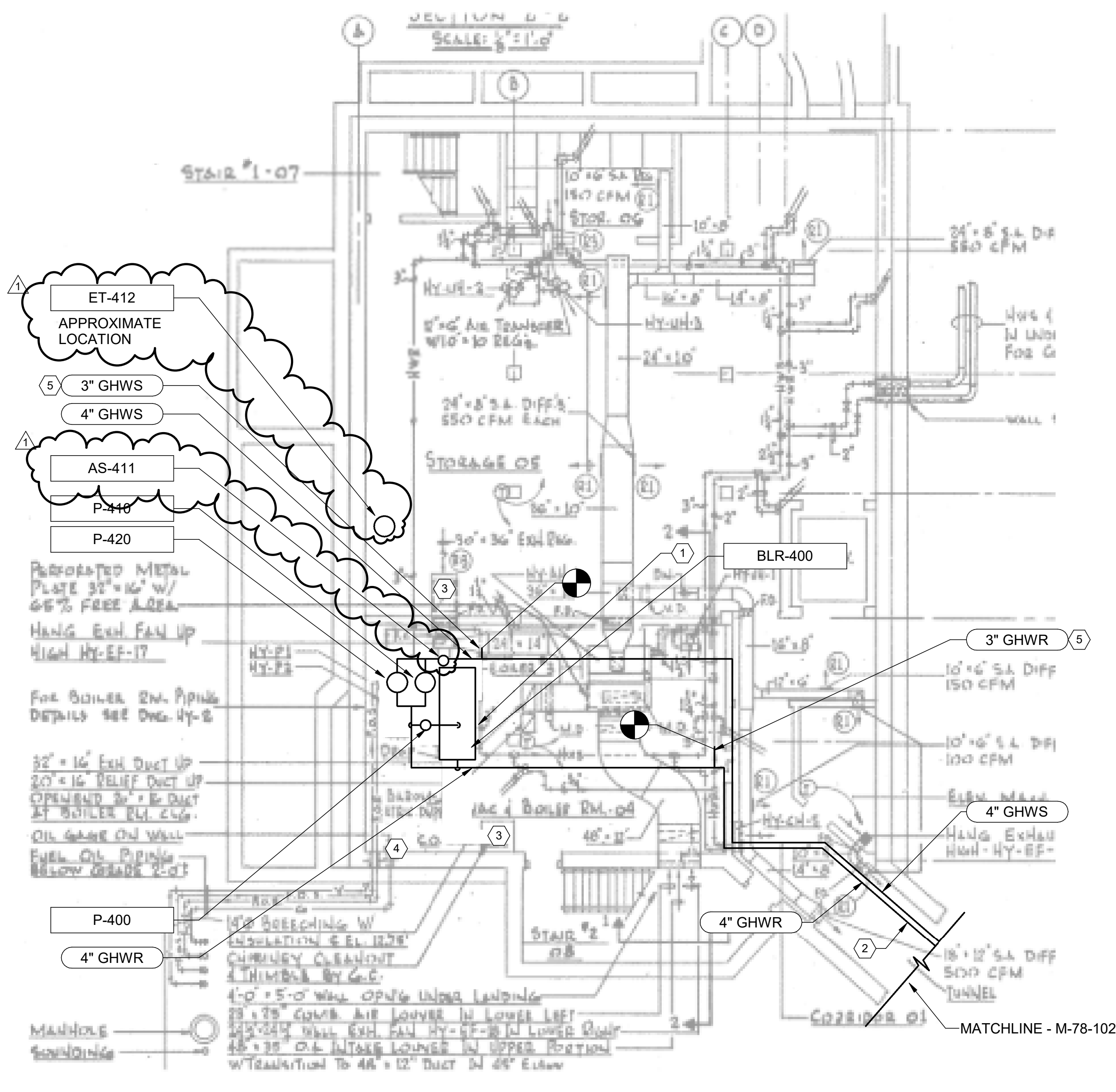
DRAWING NUMBER
M-63-101

67 SHEET NUMBER OF 109

Plot Date: 11/30/2023 1:35:41 PM Path: BIM 360//159111 - GNHWPCA FOG Receiving Station/159111_M_06_V21.rvt



Plot Date: 1/31/2024 4:30:11 PM Path: BIN 360//159111 - GNHWPCA FOG Receiving Station/159111_M_80_V21.rvt



1 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. INFORMATION ON THIS DRAWING REPRESENTING EXISTING EQUIPMENT AND SYSTEMS WAS DRAWN FROM PAST RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED. NOT ALL EXISTING EQUIPMENT AND SYSTEMS ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING EQUIPMENT, SYSTEMS, DIMENSIONS, ELEVATIONS, AND LOCATIONS AS REQUIRED FOR CONSTRUCTION PURPOSES.
2. NEW BOILER EQUIPMENT (INCLUDING, BUT NOT LIMITED TO, BOILER, MAIN LOOP PUMPS, RECIRCULATING PUMP, EXPANSION TANK, GLYCOL FEED POT, AND AIR SEPARATOR) SHALL BE PLACED IN THE SAME LOCATION AS THE RESPECTIVE EXISTING EQUIPMENT WHERE POSSIBLE. REFER TO SHEET M-00-602 FOR HYDRONIC LOOP SCHEMATIC.

KEYNOTES:

1. MOUNT BOILER ON A NEW CONCRETE EQUIPMENT PAD. REFER TO STRUCTURAL STANDARD DETAILS FOR PROPER EQUIPMENT PAD INSTALLATION. BOILER LOCATION SHALL COMPLY WITH REQUIRED EQUIPMENT CLEARANCES. CONNECT EXISTING FUEL SUPPLY LINES.
2. ROUTE NEW 4" TUNNEL PIPING IN SAME LOCATION AS THE EXISTING HOT WATER PIPING IN THE TUNNEL. REFER TO DEMOLITION SHEET MD-78-101 FOR EXISTING PIPE ROUTES.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING BOILER COMBUSTION AIR SUPPLY AND EXHAUST DUCTS AND SHALL CONNECT NEW BOILER INSTALLATION TO EXISTING COMBUSTION AIR DUCTS PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.
4. CONTRACTOR SHALL FIELD VERIFY FUEL OIL AND NATURAL GAS SUPPLY AND SHALL CONNECT NEW BOILER INSTALLATION TO BOTH FUEL SUPPLIES PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.
5. CONNECT NEW 3" HOT WATER SUPPLY AND RETURN TO EXISTING MAINTENANCE BUILDING HOT WATER SUPPLY AND RETURN PIPING.



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IMPROVING FATS OIL AND GREASE RECEIVINGS GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

REVISIONS

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1	01/2024	ADDENDUM 3

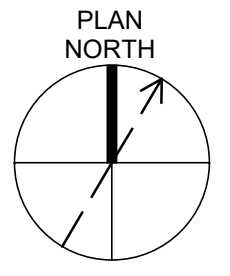
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DESIGNED: J.BUTLER
DRAWN: J.BUTLER
CHECKED: D.STEWART
CHECKED:
APPROVED: D.STEWART

FILENAME
BC PROJECT NUMBER
159111
CLIENT PROJECT NUMBER
XX
BUILDING MECHANICAL

MAINTENANCE BUILDING BASEMENT PLAN

DRAWING NUMBER
M-78-101
70 SHEET NUMBER OF 109



GENERAL NOTES:

1. INFORMATION ON THIS DRAWING REPRESENTING EXISTING EQUIPMENT AND SYSTEMS WAS DRAWN FROM PAST RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED. NOT ALL EXISTING EQUIPMENT AND SYSTEMS ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING EQUIPMENT, SYSTEMS, DIMENSIONS, ELEVATIONS, AND LOCATIONS AS REQUIRED FOR CONSTRUCTION PURPOSES.
2. PIPE ROUTES ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL FIELD VERIFY PIPE ROUTING OPTIONS.

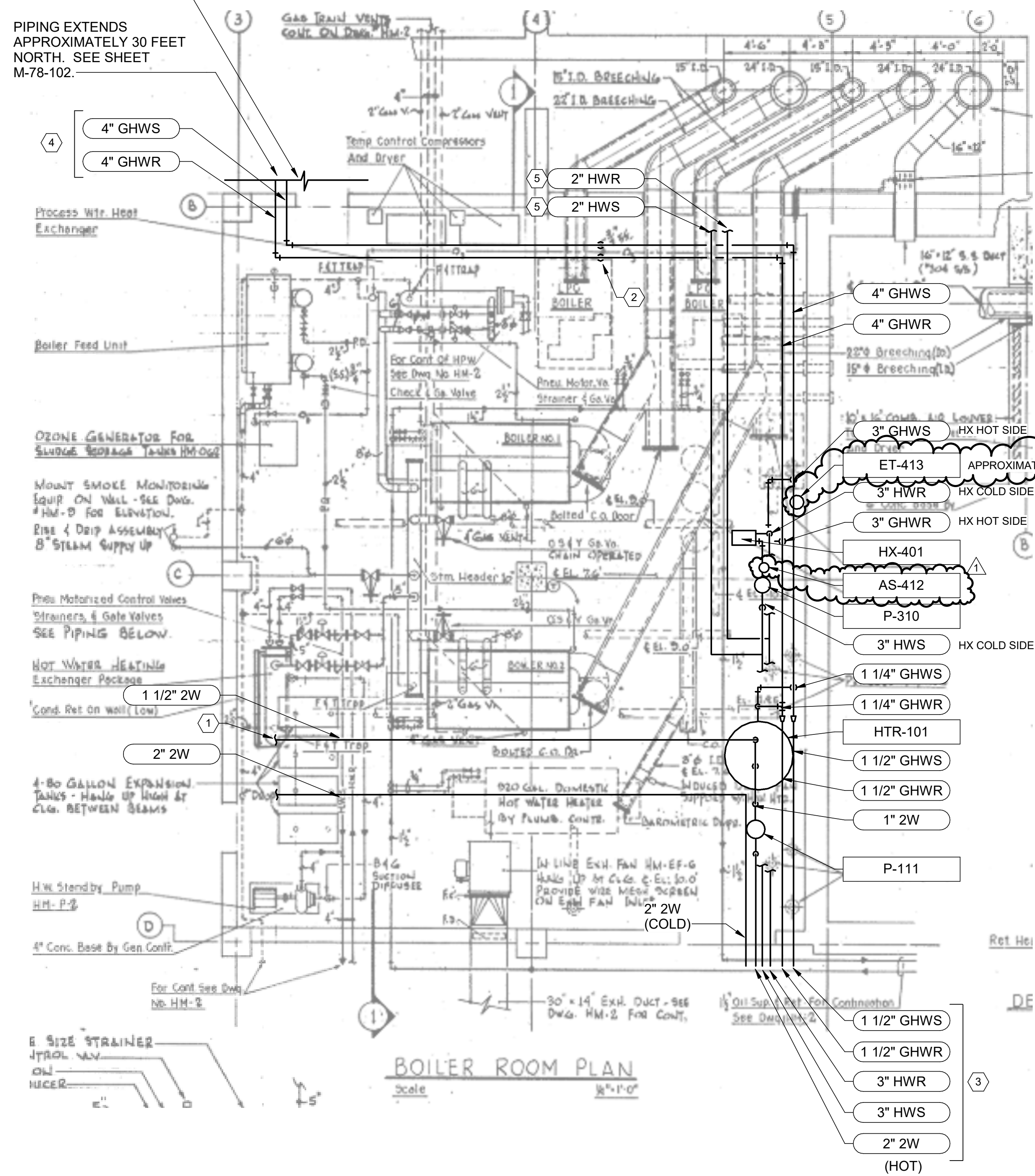
KEYNOTES:

1. CONNECT INDIRECT WATER HEATER TANK TO EXISTING BOILER ROOM 2W DOMESTIC WATER SUPPLY.
2. CONNECT NEW 2" HOT WATER SUPPLY AND RETURN LINES TO EXISTING FOG TANK HEAT EXCHANGER SUPPLY AND RETURN LINES.
3. PIPING CONTINUES INTO THE ADMIN BUILDING BASEMENT HALLWAY. REFER TO SHEET M-80-102 FOR CONTINUATION OF PIPING.
4. PIPING CONTINUES INTO THE TUNNEL BETWEEN THE MAINTENANCE BUILDING AND ADMIN BUILDING. REFER TO SHEET M-78-101 FOR PIPING IN THE MAINTENANCE BUILDING BOILER ROOM.
5. CONNECT NEW 2" HOT WATER SUPPLY AND RETURN FROM HX-401 TO EXISTING FOG TANK HEAT EXCHANGER SUPPLY AND RETURN PIPING. CONTRACTOR SHALL FIELD VERIFY CONNECTION POINT.

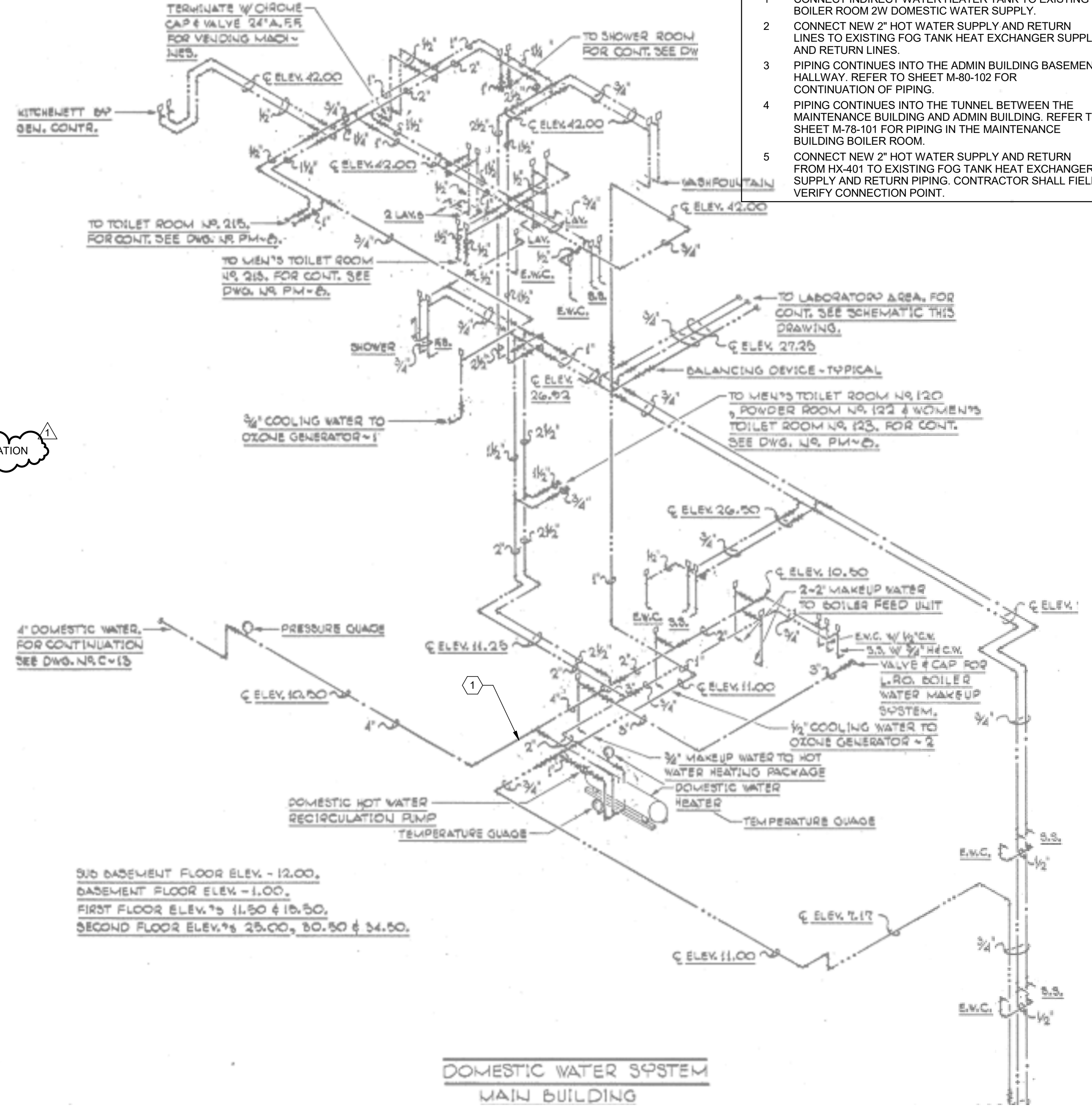


MATCHLINE - M-78-102

PIPING EXTENDS APPROXIMATELY 30 FEET NORTH. SEE SHEET M-78-102.



1 BOILER ROOM PLAN
SCALE: 3/16" = 1'-0"



2 DOMESTIC WATER CONNECTION
N.T.S.

BID DOCUMENTS
NOVEMBER 2023



IMPROVING FATS OIL AND GREASE RECEIVINGS
GREATER NEW HAVEN
WATER POLLUTION CONTROL AUTHORITY

REVISIONS

REV	DATE	DESCRIPTION
1	01/2024	ADDENDUM 3

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J. BUTLER
DRAWN: J. BUTLER
CHECKED: D. STEWART
APPROVED: D. STEWART

FILENAME

BC PROJECT NUMBER
159111
CLIENT PROJECT NUMBER
XX

BUILDING MECHANICAL

ADMINISTRATION
BOILER ROOM PLAN

DRAWING NUMBER
M-80-102

73 SHEET NUMBER OF 109