



FAYETTEVILLE PUBLIC WORKS COMMISSION

PROCUREMENT DEPARTMENT

<https://www.faypwc.com/bids/>

Bid Addendum

PWC Number: PWC2526020

Bid Title: P.O. Hoffer & Glenville Lake Water Treatment Facilities Granular Activated Carbon Media Procurement

Bid Opening Date and Time: September 23, 2025 @ 2:30 pm

Addendum Number: 1

Addendum Date: September 4, 2025

Procurement Advisor: *Shelby Lesane*
procurement@faypwc.com

-
1. Return one properly executed copy of this addendum with bid response or prior to the Bid Opening Date/Time listed above.
 2. Following are questions received about the solicitation and the SME's answers to the questions.
 - Q1.** Arq has been manufacturing and supplying PAC (powdered activated carbon) to the municipal drinking water market since 2016, but GAC (granular activated carbon) is a new product series for us in 2025. Since our GAC products are newer to the industry, we do not have the number of requested references for GAC media installation, however we can provide numerous references for PAC supply. Will PWC consider our bid if we provide PAC references in lieu of GAC references?
 - A1.** Only references pertaining to the specified GAC products will be considered. References shall be provided in accordance with the requirements of Section 43 31 13.13-1.03-A-9.
 - Q2.** Arq can provide a copy of our manufacturing Quality Control Program for review, and it based on ISO, but currently we do not have the ISO 9001:2015 certification. Will PWC consider our bid if we take exception to an ISO certification for the plant of manufacture of the GAC media and allow a similar quality program?
 - A2.** Similar quality control programs may be proposed and considered.
 - Q3.** What is the expected first install date, and what is the schedule (or frequency) for competing all the initial fills?
 - A3.** Timing of initial media deliveries will need to be coordinated with the selected General Contractor but are estimated to occur in calendar year 2028.
 - Q4.** Please provide the current pricing/supplier for the carbon and a copy of the previous bid tab results?
 - A4.** The GAC Facilities will be newly constructed at both WTFs. No previous bid tabs are available.

- Q5.** What stage of completion are the two WTP's currently in and when are they scheduled for completion?
- A5.** The GAC Facilities construction project is anticipated to be bid in Q4 of 2025.
- Q6.** Is there a current timeline for GAC deliveries to begin / end?
- A6.** Timing of initial media deliveries will need to be coordinated with the selected General Contractor but are estimated to occur in calendar year 2028.
- Q7.** For initial installation, can filters be continuously filled successively to minimize mobilization of people and equipment to the respective sites?
- A7.** Yes, provided media delivery occurs in accordance with the requirements of Section 43 31 13.13-3.02 and media installation occurs as specified in Section 43 31 13.13-3.03.
- Q8.** AWWA B604 does not recommend scraping GAC filters unless an issue with headloss is identified. If no headloss issue is identified after backwashing the third lift, is scraping still required?
- A8.** Scraping will be required to preemptively mitigate undue headloss development.
- Q9.** The specification requires the media supplier to guarantee the effective size (ES) and uniformity coefficient (UC) of the media supplied for up to the first six months of operation. The ES and UC of the media can be impacted by influent water quality and filter operations, both of which are outside of the control of the media supplier. Can this requirement be removed? If there is concern regarding physical degradation of the media, we recommend an abrasion number test instead.
- A9.** Effective size and uniformity coefficient may be used at the discretion of the Owner to confirm the quality and longevity of the media as specified in Section 43 31 13.13-2.01-C, as these parameters directly correlate to the hydraulic performance of the media. Abrasion number will not be considered as an alternative indicator. Note that air scour will not be used within the GAC contactors and the maximum design water backwash rate is 15 gpm/sf. The contactors will treat filtered water with turbidity <0.3 NTU, average pH ~6.5, and average free chlorine residual ~1 mg/L.
- Q10.** The GAC specification includes two non-standard tests – Cumulative DFT Pore Volume and BET Surface Area. In addition to not being standard AWWA B604 parameters, no specified value or range is provided for these tests that needs to be met. Can these tests be removed as they will increase costs and limit the number of labs able to perform the independent third-party media testing requirements?
- A10.** Both tests are required, with values to be reported as specified.
- Q11.** Please confirm that the contractor or owner will be responsible for effluent water sampling during startup?
- A11.** The Contractor will be responsible for overseeing effluent sampling during startup in accordance with Section 43 31 13.13-3.03-C.
- Q12.** For the third-party lab startup effluent water samples, could you please clarify which analytical methods and parameters need to be tested for?

- A12.** Effluent water quality should be sampled via approved EPA analytical methods including but not limited to 200.8, 415.3, 300.0, 150.1, etc., to ensure that all regulated constituents are within the limits established by the US EPA National Primary and Secondary Drinking Water Regulations.
- Q13.** For ongoing media exchanges, how many filters are anticipated to be exchanged at a time?
- A13.** The GAC Facilities at both WTFs have been designed to treat the rated flows with two (2) contactors out of service simultaneously. Staggered start-up and resupply operations will be employed to optimize the life of the media.
- Q14.** Can the price page be altered to provide pricing for each exchange on a per filter basis as opposed to the total quantity?
- A14.** The answer is No.
- Q15.** We assume base bids should not include sales tax, is that correct? If sales tax is to be included in the base bid, what is PWC's sales tax rate?
- A15.** The answer is the base bid should not include tax.
- Q16.** Please state what percent of virgin carbon make-up should be included in the base price for reactivated carbon? 20% is standard
- A16.** The custom reactivated GAC media shall include virgin makeup media as required to account for media loss during the reactivation process. The custom reactivated media inclusive of any virgin makeup media shall be billed at the unit price noted in the Bid Form.
- Q17.** Pg.28 Bid Form "...two media changeouts are estimated at each facility over the 36-month duration of the supply contract..." How much time is estimated between initial installation and first changeout (how long are the GAC Beds estimated to last)?
- A17.** The anticipated media life is estimated at 12-24 months. However, actual media resupply quantities required will be dependent on incoming water quality and treated water flow. Staggered start-up and resupply operations will be employed to optimize the life of the media. PWC does not guarantee a minimum or maximum quantity of media to be purchased for resupply following the exhaustion of initially purchased media.
- Q18.** When do you expect the virgin GAC deliveries for the new contactors to begin?
- A18.** Timing of initial media deliveries will need to be coordinated with the selected General Contractor but are estimated to occur in calendar year 2028.
- Q19.** Is there a timeline for how long the new contactor virgin deliveries are expected to take?
- A19.** Timing of initial media deliveries will need to be coordinated with the selected General Contractor.
- Q20.** Pg 28 Bid Form indicated two changeouts over a 36-month period. Do you anticipate changing all contactors at once every 18 months? Or a portion of the contactors on a schedule? Or something different?

- A20.** The anticipated media life is estimated at 12-24 months. However, actual media resupply quantities required will be dependent on incoming water quality and treated water flow. Staggered start-up and resupply operations will be employed to optimize the life of the media. PWC does not guarantee a minimum or maximum quantity of media to be purchased for resupply following the exhaustion of initially purchased media.
- Q21.** What was the previously quoted or awarded unit price for granular activated carbon (GAC) media for the P.O. Hoffer & Glenville Lake Water Treatment Facilities in the most recent prior procurement, including whether it was for virgin or reactivated media?
- A21.** The GAC facilities will be newly constructed at both WTFs. No previous bid tabs are available.
- Q22.** The BID PRICING FORM requests 'Lead Time Information' for each line item, but no explicit definition or expectation for "lead time" is given. Should this represent manufacturing time, delivery to site, or total time from order to installation completion?
- A22.** Bidders' attention is directed to specification Section 43 31 13.13-1.03-A-8 that requires delivery of resupply media within thirty (30) calendar days of order placement.
- Q23.** There appears to be some overlap in responsibility between initial installation (specifying supplier-led work) and changeouts (involving contractor/owner). Can PWC clarify the division of duties during initial installation versus future GAC media changeouts, especially regarding housekeeping, sampling, and testing?
- A23.** The Contractor will be responsible for operation of the newly constructed GAC Facilities during installation of the virgin media and prior to system commissioning. The Owner will be responsible for operation of the GAC Facilities during subsequent media changeout activities. This entails the operation of pumps and valves to backwash and rinse the installed media. The Supplier will be responsible for sampling and testing under the direction of the Contractor/Owner as specified in Section 43 31 13.13.
- Q24.** For custom reactivated GAC media (Alternate Bid), is there a requirement for reactivation to occur within the United States, or can it be performed internationally as long as the final product adheres to all AWWA and NSF standards.
- A24.** Domestic reactivation will be required. Note that Supplier is required to be onsite within 30 calendar days of order placement for media resupply in accordance with Section 43 31 13.13-1.03-A-8.
- Q25.** The technical specifications require three years of reactivation experience and municipal references for custom reactivated GAC. If a supplier uses a third-party reactivation partner, whose qualifications will be evaluated; those of the supplier or the reactivation subcontractor?
- A25.** Third-party reactivation services may be considered provided references are provided in accordance with Section 43 31 13.13-1.03-A-9 demonstrating that the proposed third-party kiln has been used with the proposed media product for a minimum of five (5) years.
- Q26.** In the event that an addendum is issued after bid documents are submitted, what is PWC's process for handling responses; will bidders be asked to resubmit in full, or will supplemental acknowledgments be accepted?

- A26.** Bidders are required to execute and return addenda; failure to return an executed copy may result in rejection of the response. Please note, addenda may include revised bid documents, bid forms, etc. in the event of revised documents. Bidders shall submit bids only on the revised documents.
- Q27.** Attachment F outlines the MWDBE forms and affidavit requirements, but for Affidavit E, it is stated that local participation is “for reporting purposes only.” Will any consideration or scoring benefit be given for use of local suppliers in the award evaluation?
- A27.** While PWC encourages the inclusion of Small and/or Local Suppliers in procurement bids, the stated goal for participation is aspirational in nature. No bonus points or guaranteed scoring advantages are awarded solely for including a Small and/or Local Suppliers subcontractor. Although no assigned or fixed point value or percentage increase for participation, such engagement is considered favorably and may contribute to the overall assessment of a vendor’s proposal.
- Q28.** Kindly share last year bid tab and details on last 2 years Granular Activated Carbon Media Procurement
- A28.** The GAC facilities will be newly constructed at both WTFs. No previous bid tabs are available.
- Q29.** Do you have filter drawings?
- A29.** Yes, please see the accompanying attachments.

Attachments:

1. Mechanical Drawings

Failure to acknowledge receipt of this addendum may result in rejection of the response.

Check ONE of the following options:

- Bid has not been mailed. Any changes resulting from this addendum are included in our bid response.
- Bid has been mailed. No changes resulted from this addendum.
- Bid has been mailed. Changes resulting from this addendum are as follows:

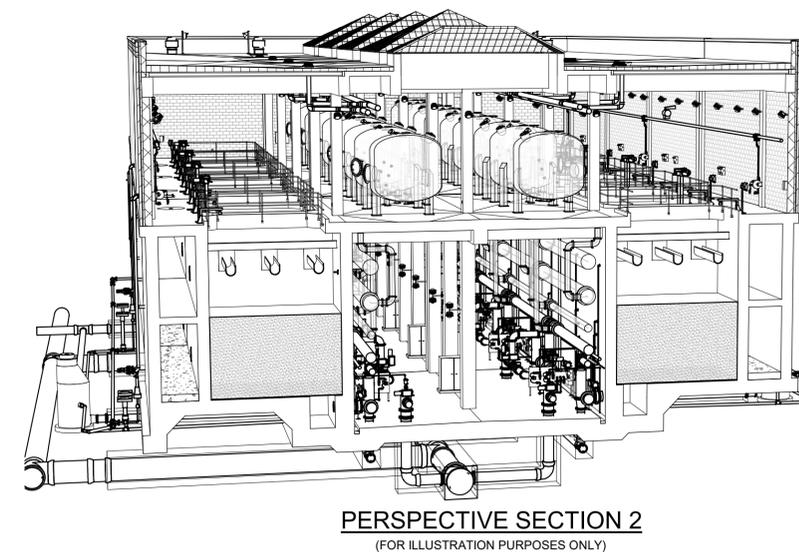
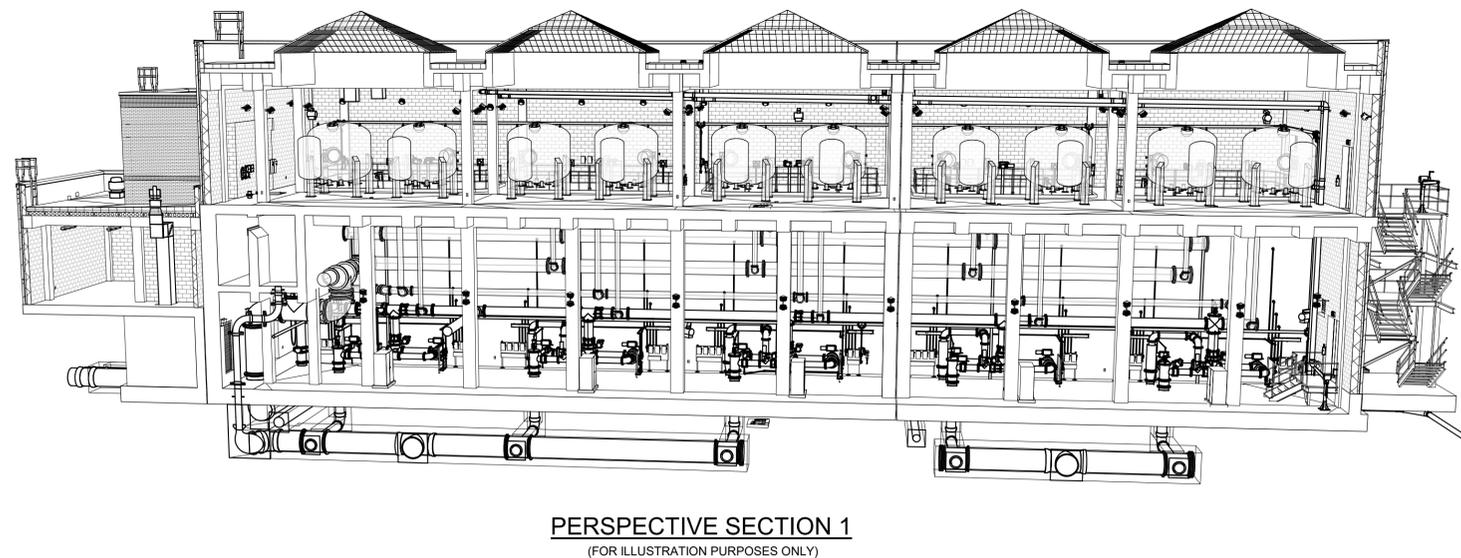
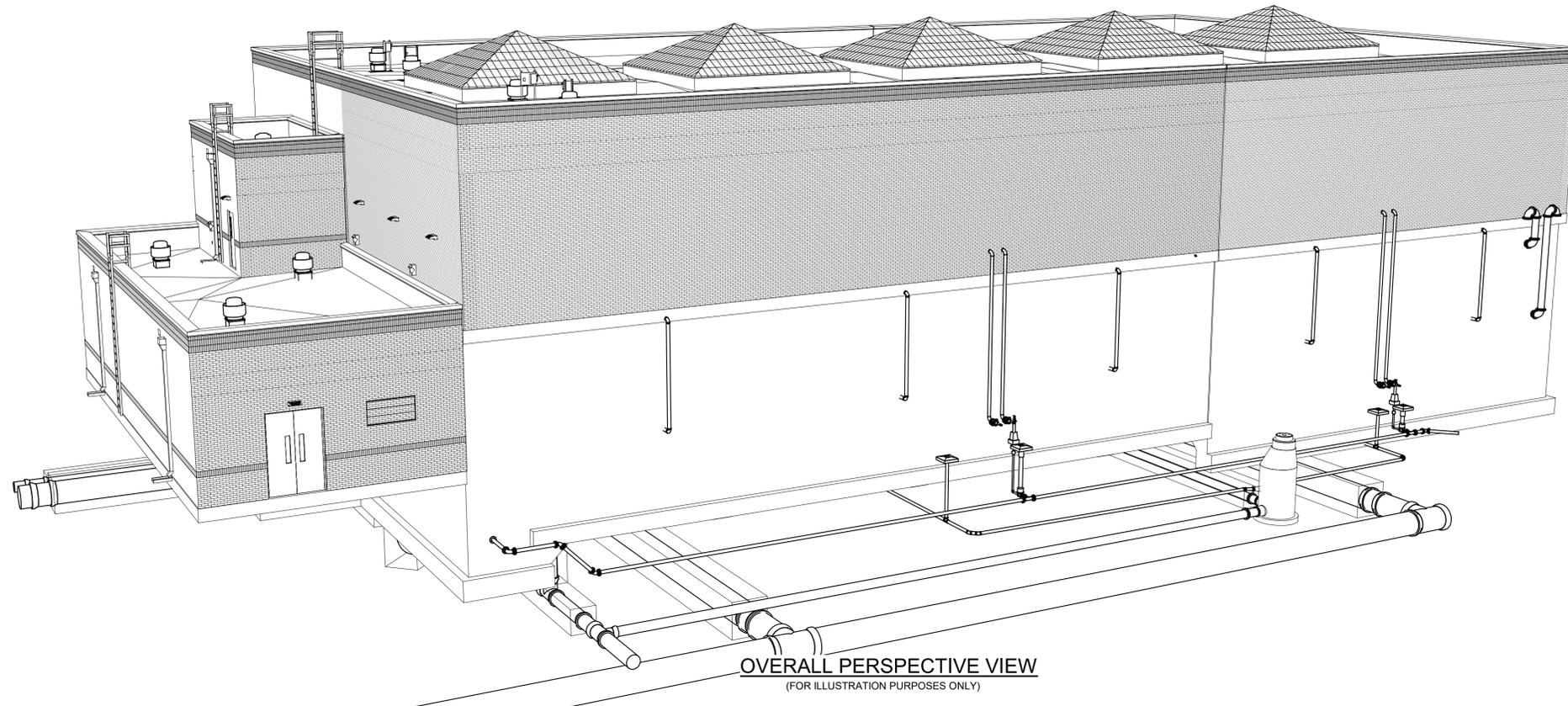
Execute Addendum:

Offeror: _____

Authorized Signature: _____

Name and Titled (Typed): _____

Date: _____



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1	REGULATORY APPROVAL	12/2024	DCH
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	H. SHERMAN
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY

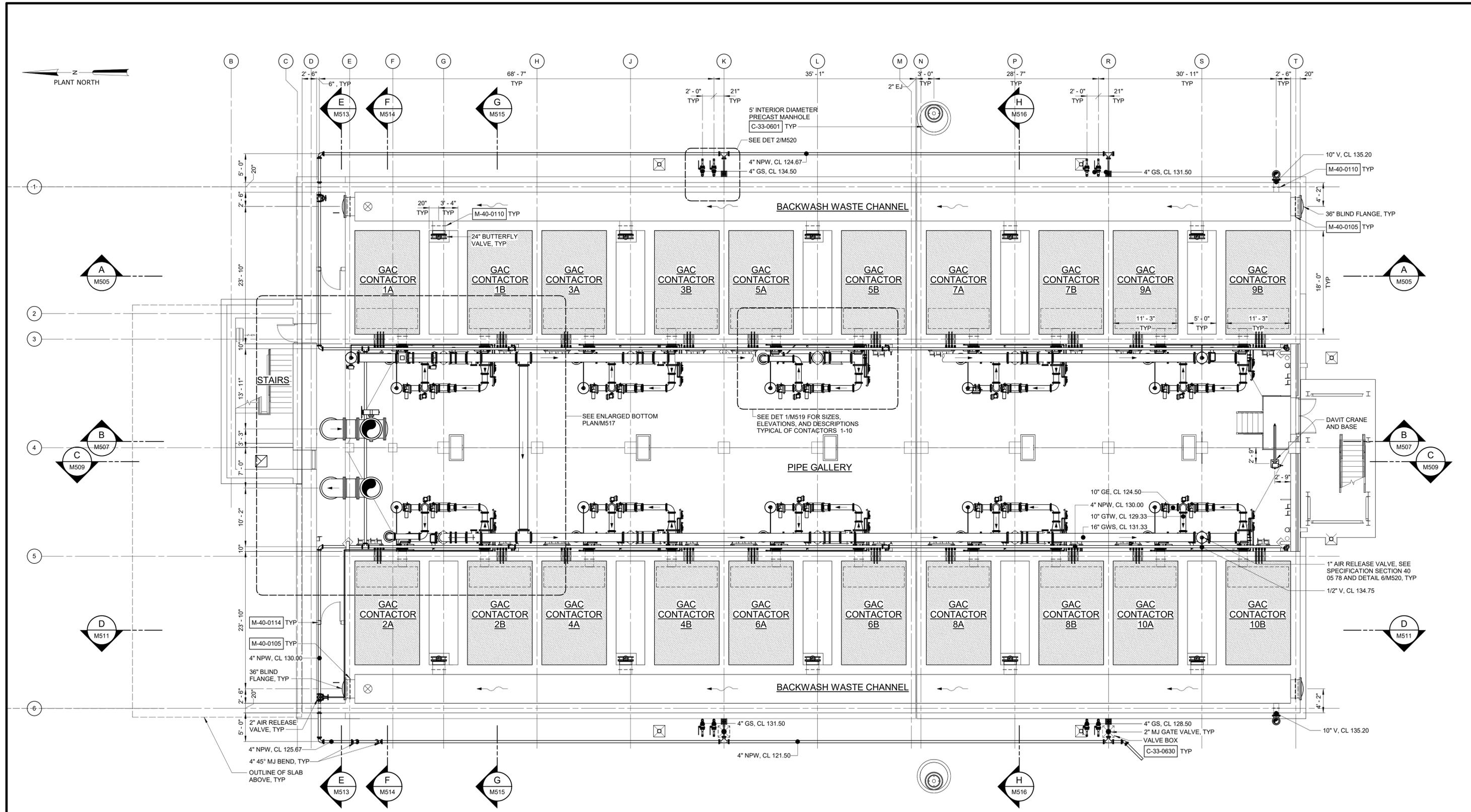
PRELIMINARY - NOT ISSUED FOR CONSTRUCTION

Hazen
HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD,
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

PUBLIC WORKS COMMISSION
CITY OF FAYETTEVILLE, NORTH CAROLINA
GLENVILLE LAKE AND P.O. HOFFER
WATER TREATMENT FACILITY POST
FILTER GAC ADSORPTION FACILITIES

GLENVILLE LAKE WTF - GAC FACILITY
MECHANICAL
PERSPECTIVE VIEWS

DATE:	JULY 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M500



OVERALL BOTTOM PLAN
1/8" = 1'-0"

1	REGULATORY APPROVAL	12/2024	DCH
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	H. SHERMAN
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

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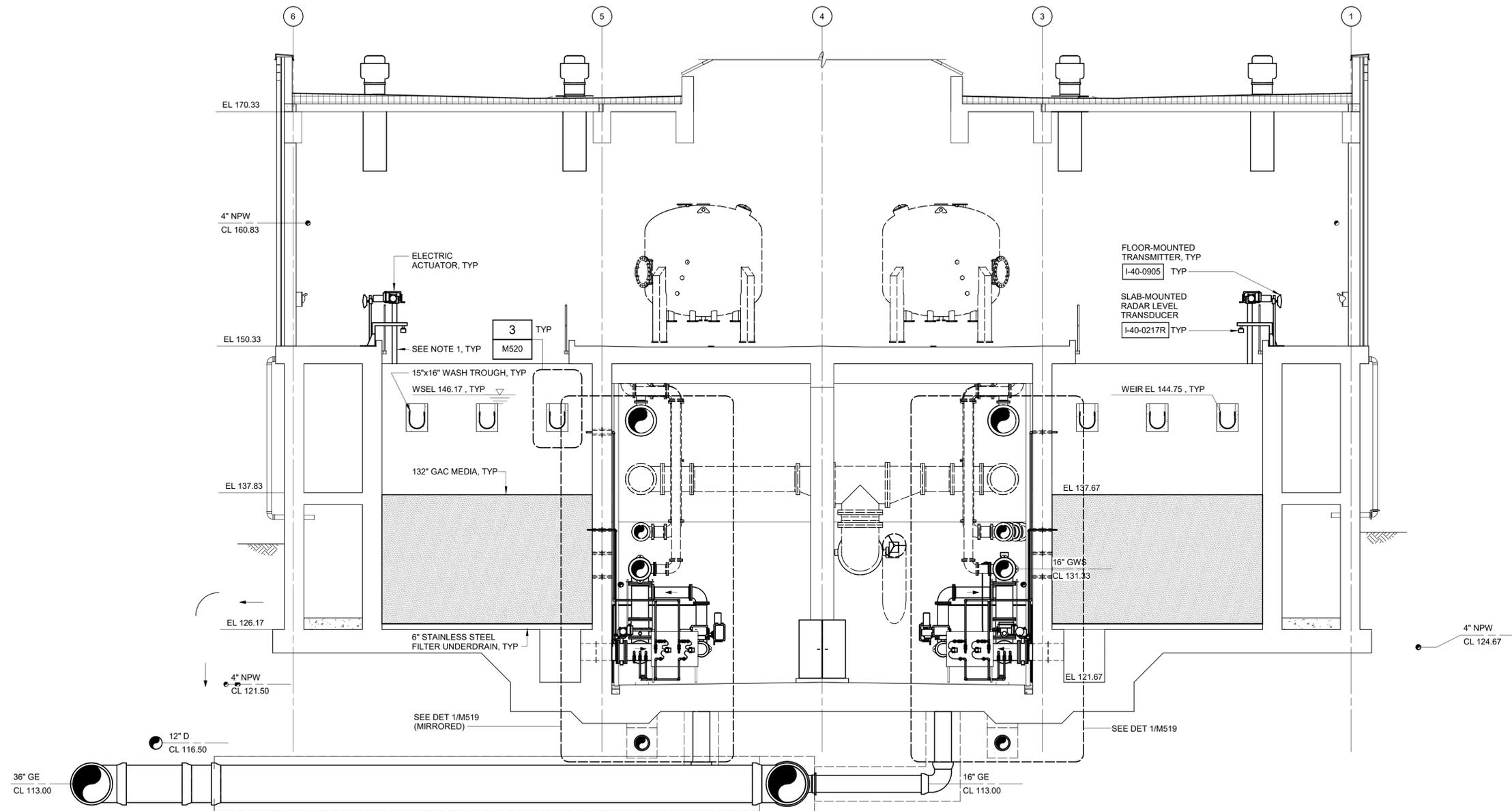
GLENNVILLE LAKE WTF - GAC FACILITY
MECHANICAL
OVERALL BOTTOM PLAN

DATE:	JULY 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M502

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NOTES:

1. AN EXTENSION BONNET/TORQUE TUBE SHALL BE FURNISHED BY THE VALVE MANUFACTURER. SUBMERGED WORM GEAR ASSEMBLIES ARE NOT ALLOWED. EXTENSION BONNETS/TORQUE TUBES SHALL BE SEGMENTED TO FACILITATE FUTURE VALVE REMOVAL VIA DAVIT CRANE. REFER TO SECTION 41 22 00 FOR DAVIT CRANE BASIS OF DESIGN INFORMATION.



SECTION G
3/16" = 1'-0" M501

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PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	H. SHERMAN
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY
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	DATE
	BY

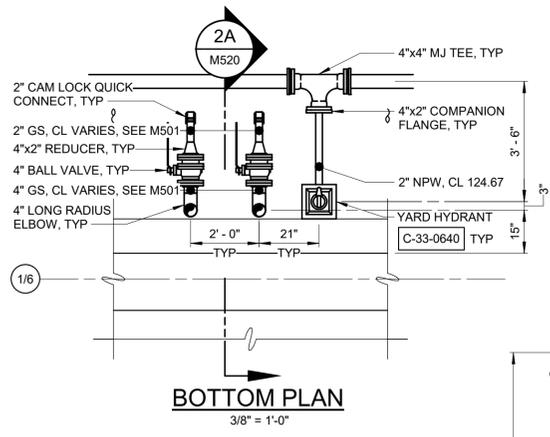
PRELIMINARY - NOT ISSUED FOR CONSTRUCTION

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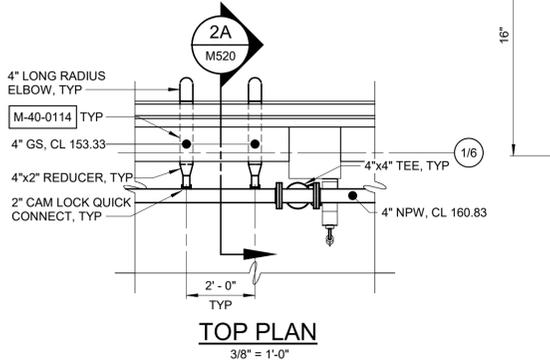
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WATER TREATMENT FACILITY POST
FILTER GAC ADSORPTION FACILITIES

GLENVILLE LAKE WTF - GAC FACILITY
MECHANICAL
SECTIONS - SHEET 11

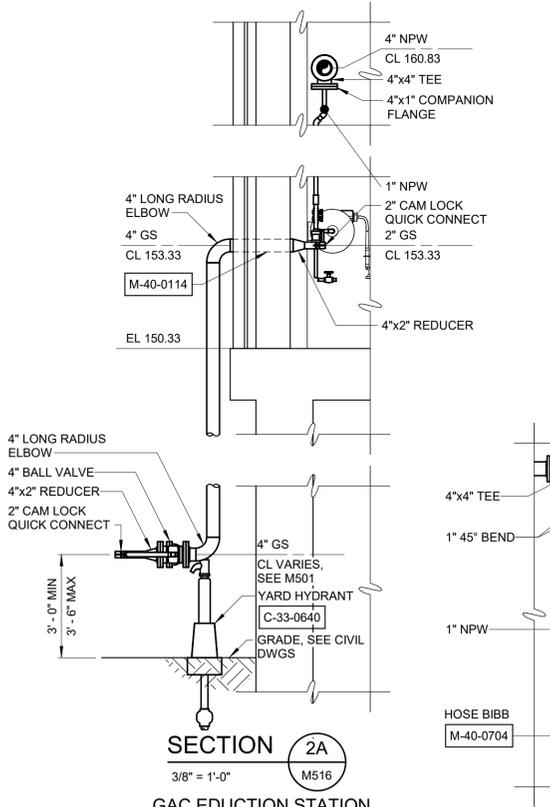
DATE:	JULY 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M515



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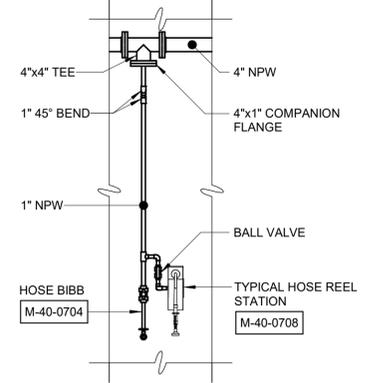


TOP PLAN
3/8" = 1'-0"

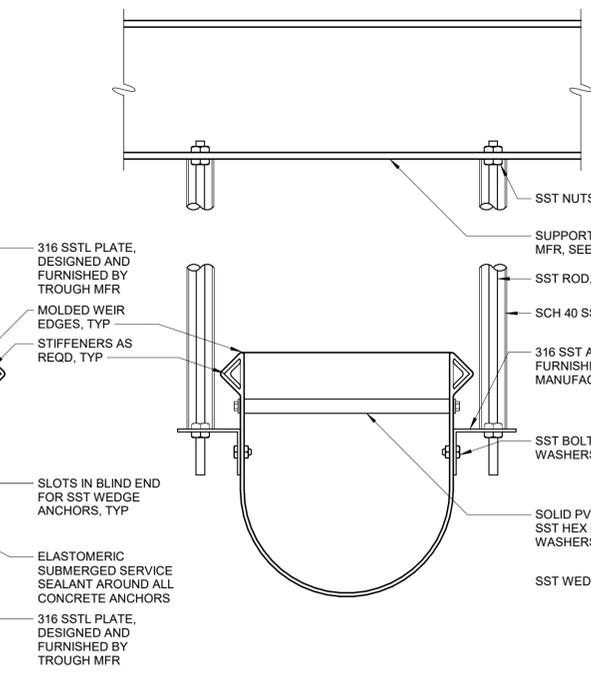


SECTION 2A
3/8" = 1'-0"

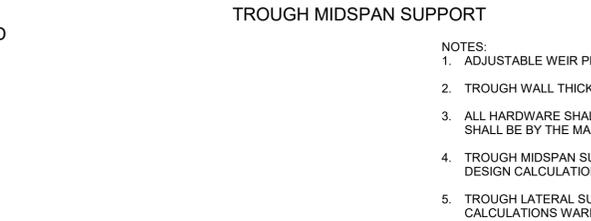
DETAIL 2
3/8" = 1'-0"



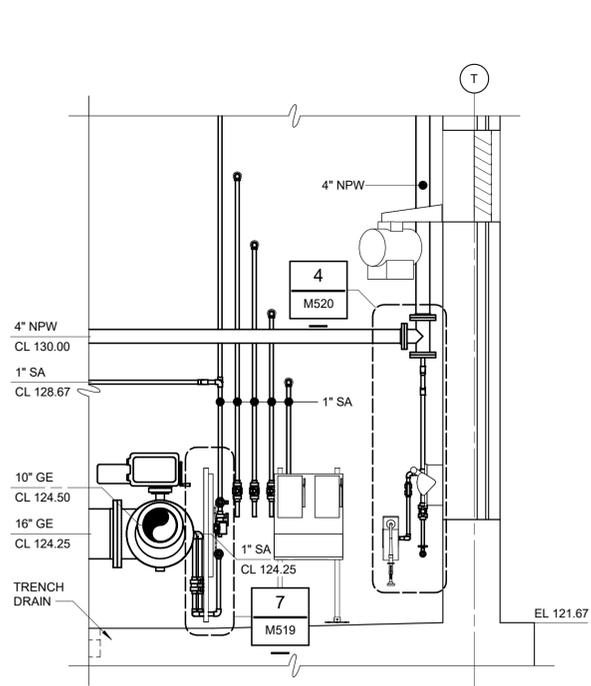
DETAIL 4
3/8" = 1'-0"



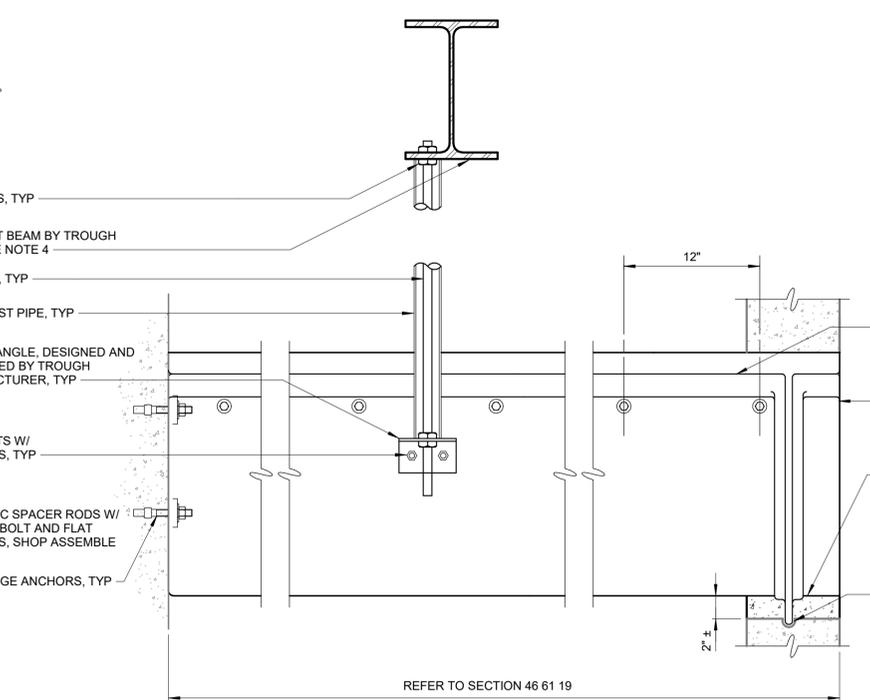
TROUGH WALL CONNECTION - BLIND END



TROUGH MIDSPAN SUPPORT



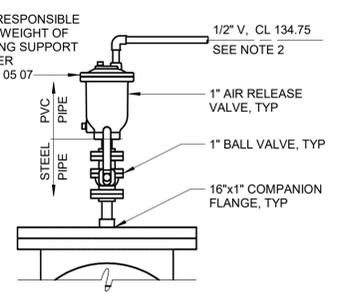
DETAIL 5
3/8" = 1'-0"



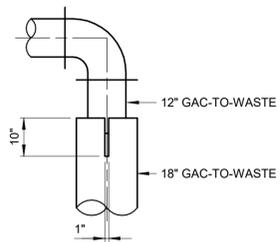
SIDE ELEVATION

- NOTES:
1. ADJUSTABLE WEIR PLATE NOT SHOWN IN TROUGH DETAIL. SEE SPECIFICATION SECTION 46 61 19 FOR WEIR PLATE REQUIREMENTS.
 2. TROUGH WALL THICKNESS SHALL BE MINIMUM THICKNESS PER SECTION 46 61 19.
 3. ALL HARDWARE SHALL BE 316 SSSL AND FURNISHED BY THE TROUGH MANUFACTURER. SIZING AND CONFIGURATION OF ANCHORS SHALL BE BY THE MANUFACTURER.
 4. TROUGH MIDSPAN SUPPORT FOR VERTICAL LOADS SHALL BE DESIGNED AND PROVIDED BY THE TROUGH MANUFACTURER IF DESIGN CALCULATIONS WARRANT A MIDSPAN SUPPORT BE PROVIDED PER SPECIFICATION SECTION 46 61 19.
 5. TROUGH LATERAL SUPPORT FOR LATERAL LOADS SHALL BE DESIGNED AND PROVIDED BY THE TROUGH MANUFACTURER IF DESIGN CALCULATIONS WARRANT A LATERAL SUPPORT BE PROVIDED PER SPECIFICATION SECTION 46 61 19.

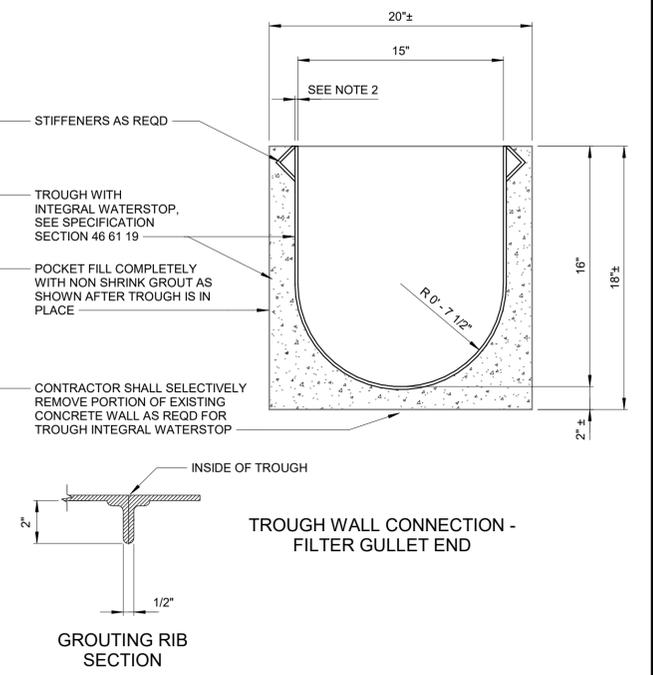
DETAIL 3
1 1/2" = 1'-0"



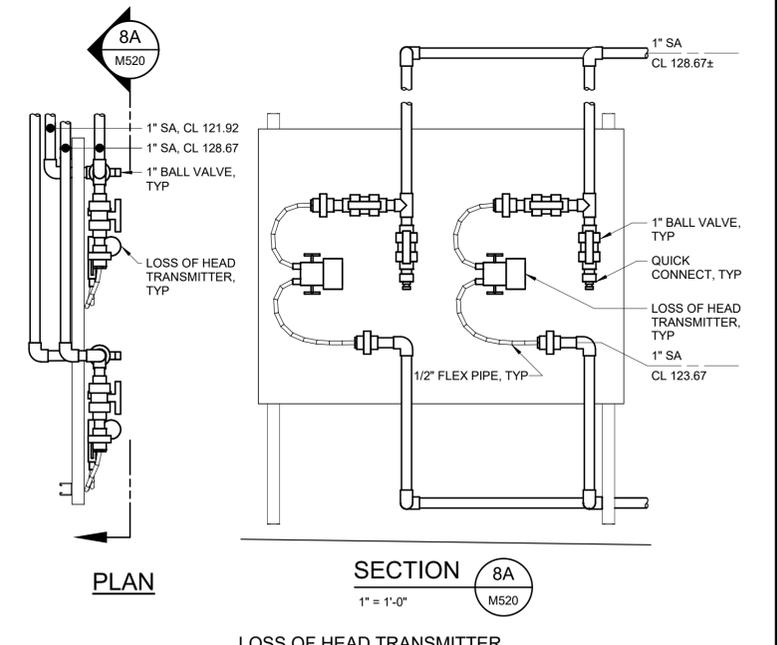
DETAIL 6
1" = 1'-0"



DETAIL 7
1/2" = 1'-0"



TROUGH WALL CONNECTION - FILTER GULLET END



PLAN

SECTION 8A
1" = 1'-0"

DETAIL 8
1" = 1'-0"

REV	ISSUED FOR	DATE	BY
1	REGULATORY APPROVAL	12/2024	DCH

PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	H. SHERMAN
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

PRELIMINARY - NOT ISSUED FOR CONSTRUCTION

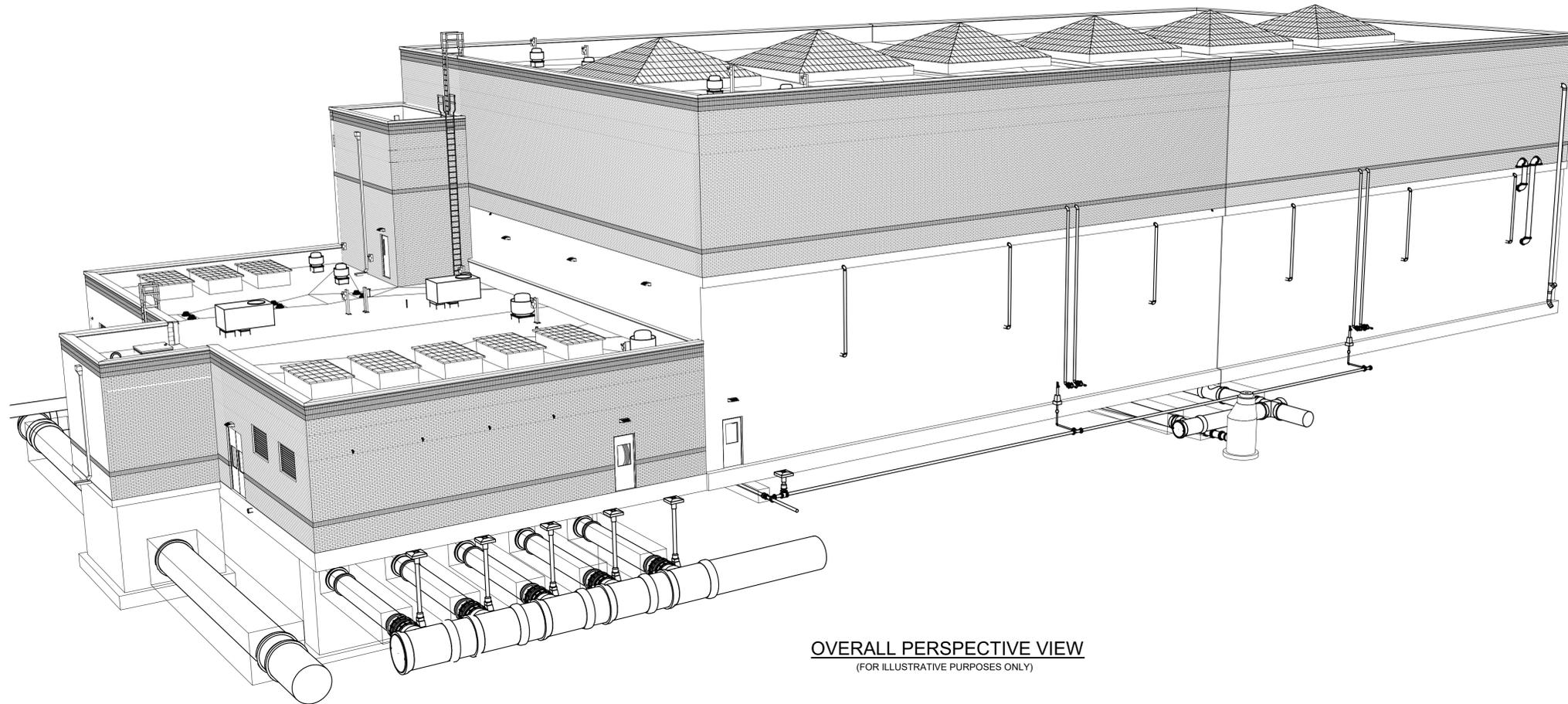
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LICENSE NO.: C-0381

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GLENVILLE LAKE AND P.O. HOFFER
WATER TREATMENT FACILITY POST
FILTER GAC ADSORPTION FACILITIES

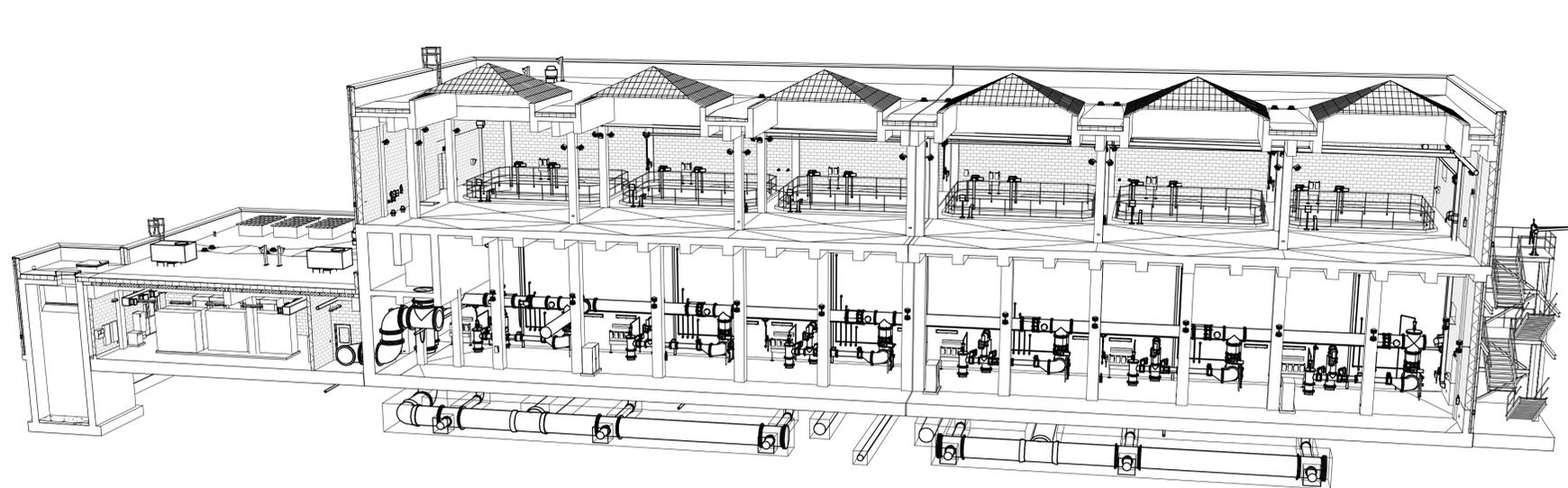
GLENVILLE LAKE WTF - GAC FACILITY
MECHANICAL
DETAILS - SHEET 2

DATE:	JULY 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M520

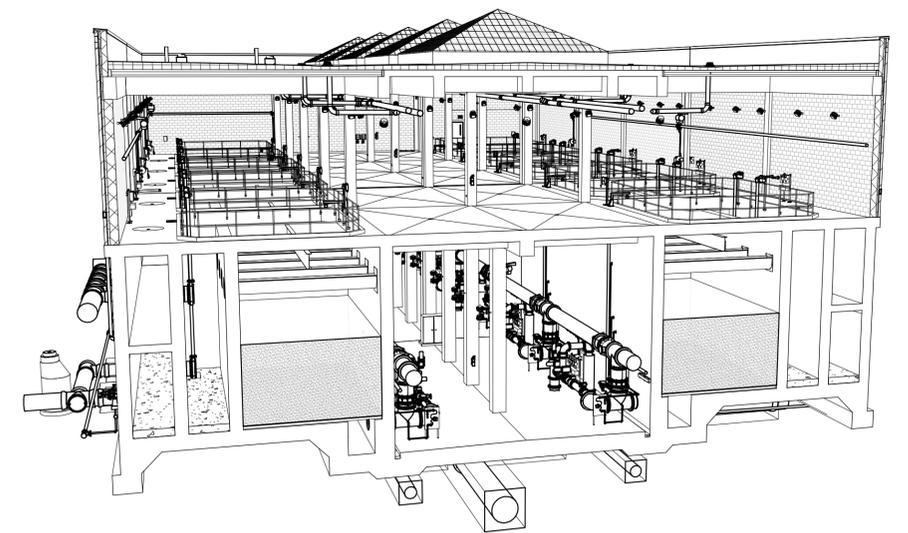
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OVERALL PERSPECTIVE VIEW
(FOR ILLUSTRATIVE PURPOSES ONLY)



PERSPECTIVE SECTION 1
(FOR ILLUSTRATIVE PURPOSES ONLY)



PERSPECTIVE SECTION 2
(FOR ILLUSTRATIVE PURPOSES ONLY)

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1	REGULATORY APPROVAL	12/2024	DCH
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	C. DAY
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

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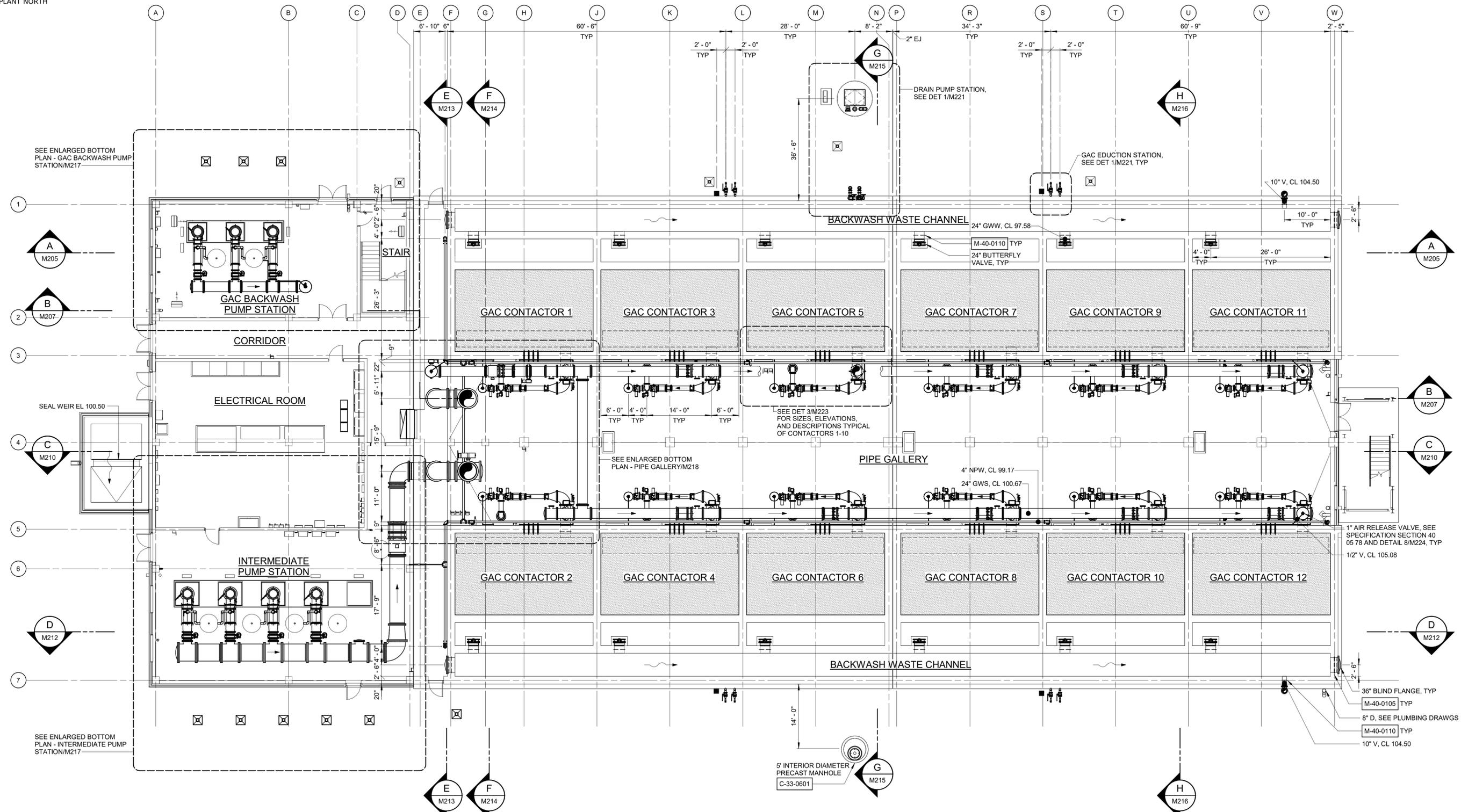
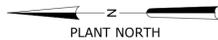
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RALEIGH, NORTH CAROLINA 27607
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PUBLIC WORKS COMMISSION
CITY OF FAYETTEVILLE, NORTH CAROLINA

GLENVILLE LAKE AND P.O. HOFFER
WATER TREATMENT FACILITY POST
FILTER GAC ADSORPTION FACILITIES

P.O. HOFFER WTF - INTERMEDIATE PUMP STATION
AND GAC FACILITY
MECHANICAL
PERSPECTIVE VIEWS

DATE:	AUGUST 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M200



OVERALL BOTTOM PLAN
3/32" = 1'-0"

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1	REGULATORY APPROVAL	12/2024	DCH
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	C. DAY
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

PRELIMINARY - NOT ISSUED FOR CONSTRUCTION

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4011 WESTCHASE BOULEVARD,
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

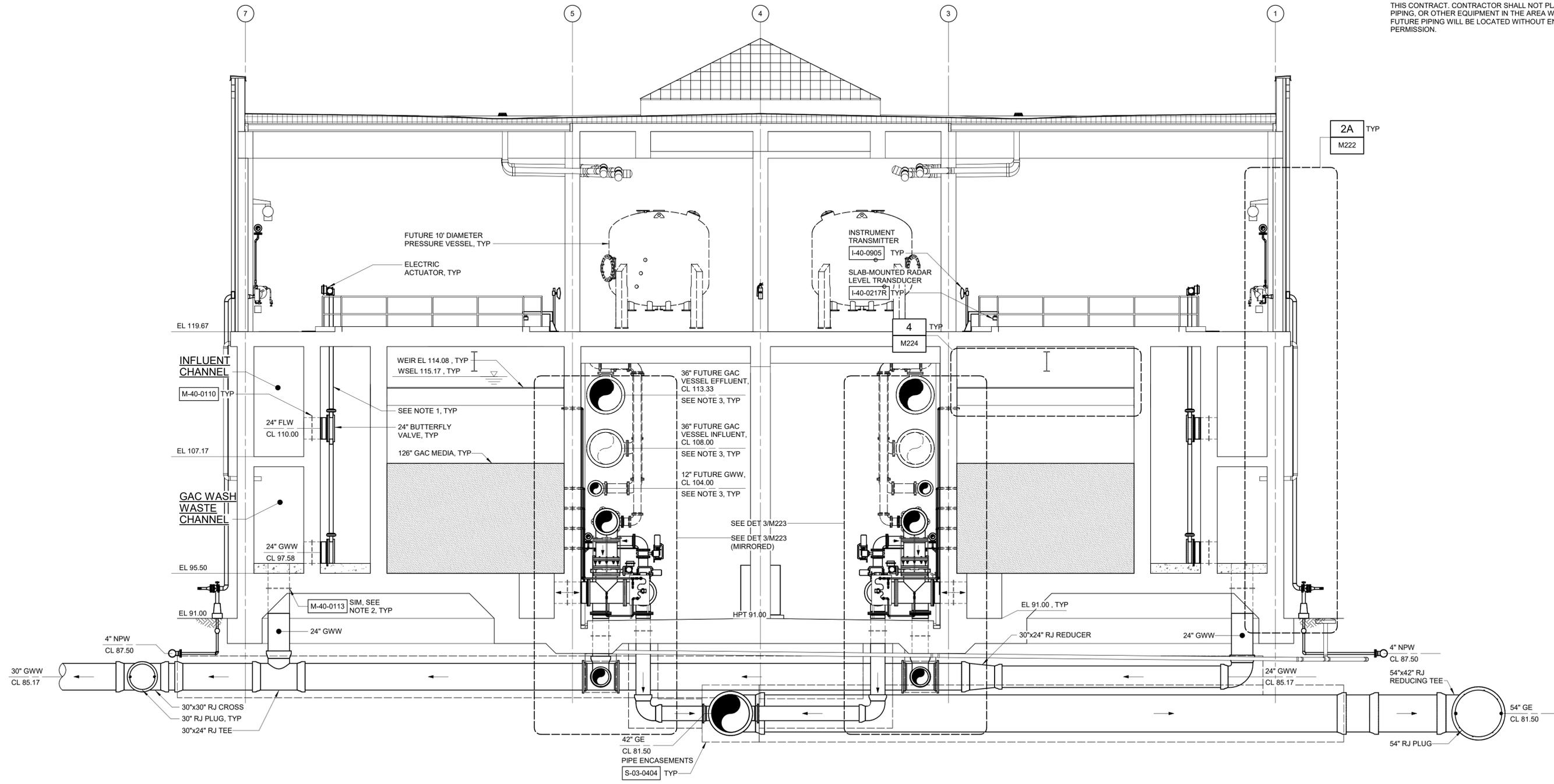
PUBLIC WORKS COMMISSION
CITY OF FAYETTEVILLE, NORTH CAROLINA
GLENVILLE LAKE AND P.O. HOFFER
WATER TREATMENT FACILITY POST
FILTER GAC ADSORPTION FACILITIES

P.O. HOFFER WTF - INTERMEDIATE PUMP STATION
AND GAC FACILITY
MECHANICAL
OVERALL BOTTOM PLAN

DATE:	AUGUST 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M202

NOTES:

1. AN EXTENSION BONNET/TORQUE TUBE SHALL BE FURNISHED BY THE VALVE MANUFACTURER. SUBMERGED WORM GEAR ASSEMBLIES ARE NOT ALLOWED. EXTENSION BONNETS/TORQUE TUBES SHALL BE SEGMENTED TO FACILITATE FUTURE VALVE REMOVAL VIA DAVIT CRANE. REFER TO SECTION 41 22 00 FOR DAVIT CRANE BASIS OF DESIGN INFORMATION.
2. WALL PIPE SHALL TERMINATE AS A PLAIN END AT THE FINISHED FLOOR ELEVATION OF THE CONCRETE FILL AT THE GAC WASH WASTE CHANNEL.
3. PIPING INDICATED AS FUTURE WILL NOT BE INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL NOT PLACE CONDUITS, PIPING, OR OTHER EQUIPMENT IN THE AREA WHERE THE FUTURE PIPING WILL BE LOCATED WITHOUT ENGINEER PERMISSION.



SECTION H
3/16" = 1'-0"
M201

Autodesk Docs/02/02/02-067_Post-Filter GAC Adsorption Facilities/04/02/02-067-PCH-200-IFS-GAC-M1.rvt 8/23/2025 3:21:48 PM

REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	C. DAY
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

PRELIMINARY - NOT ISSUED FOR CONSTRUCTION

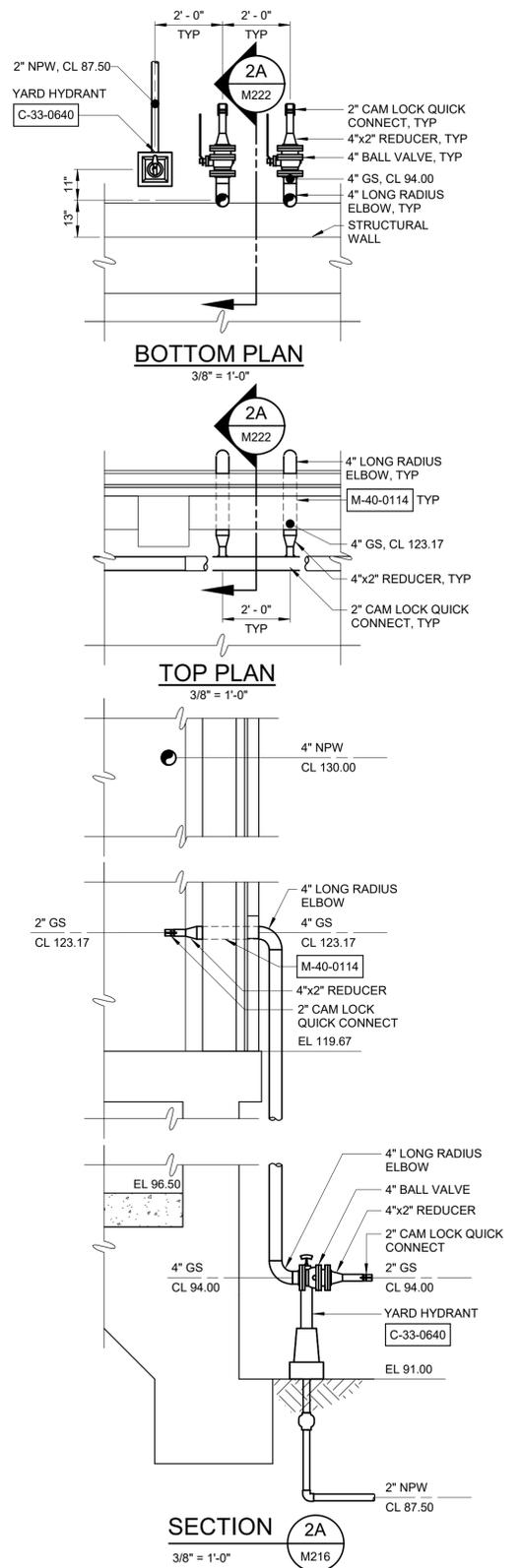
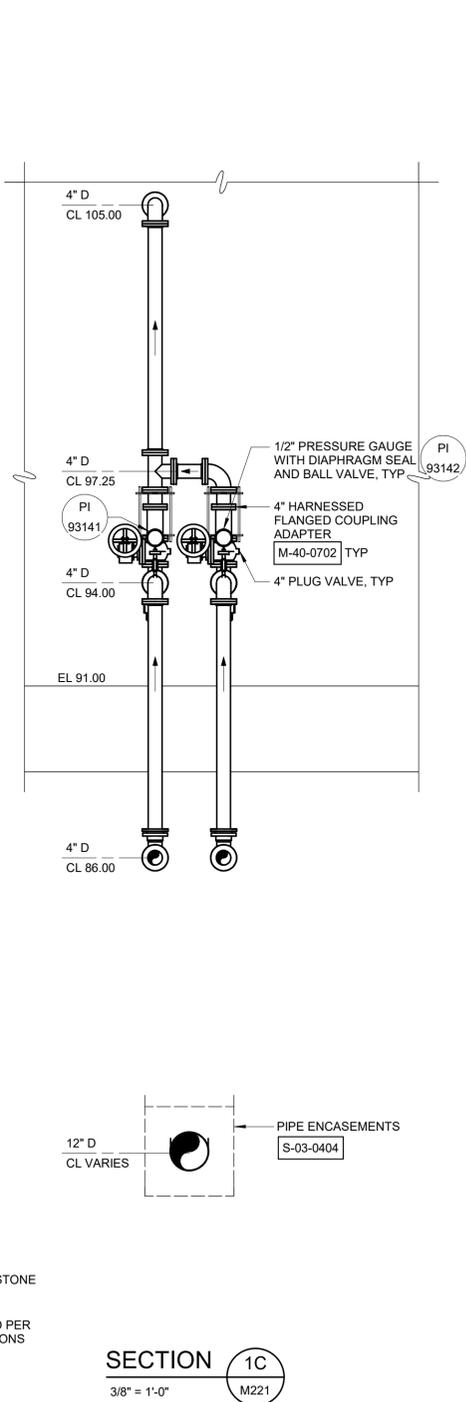
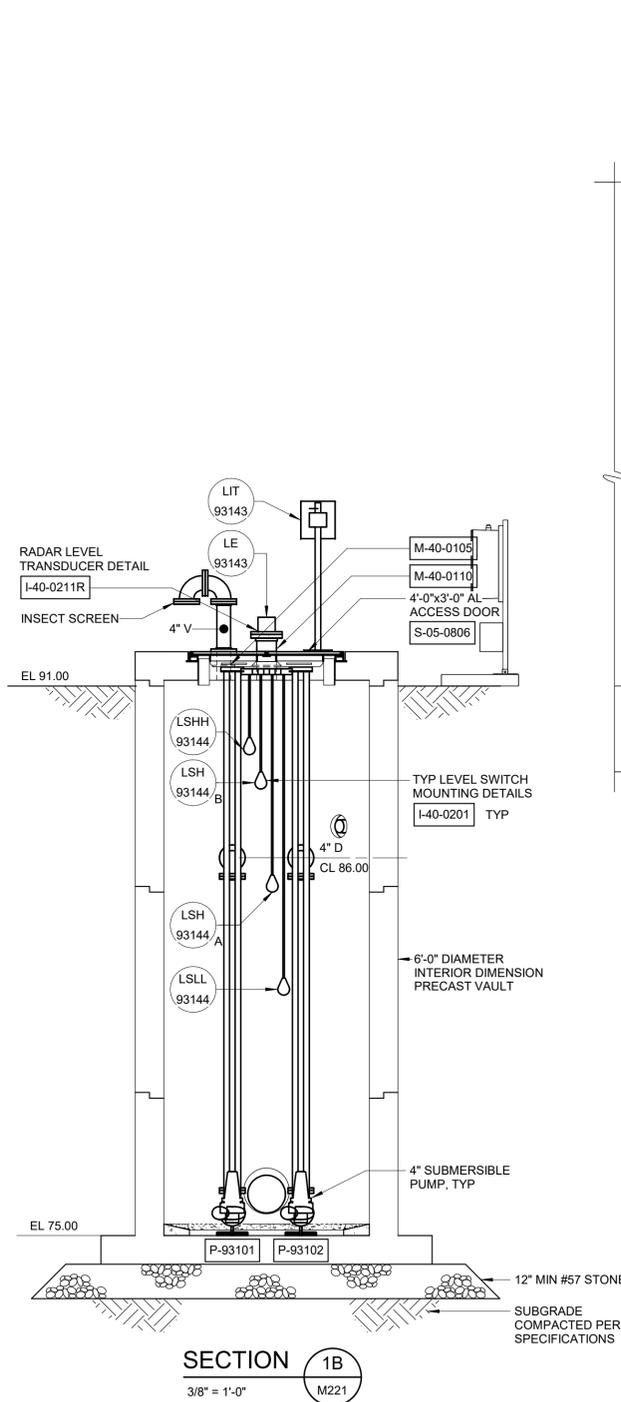
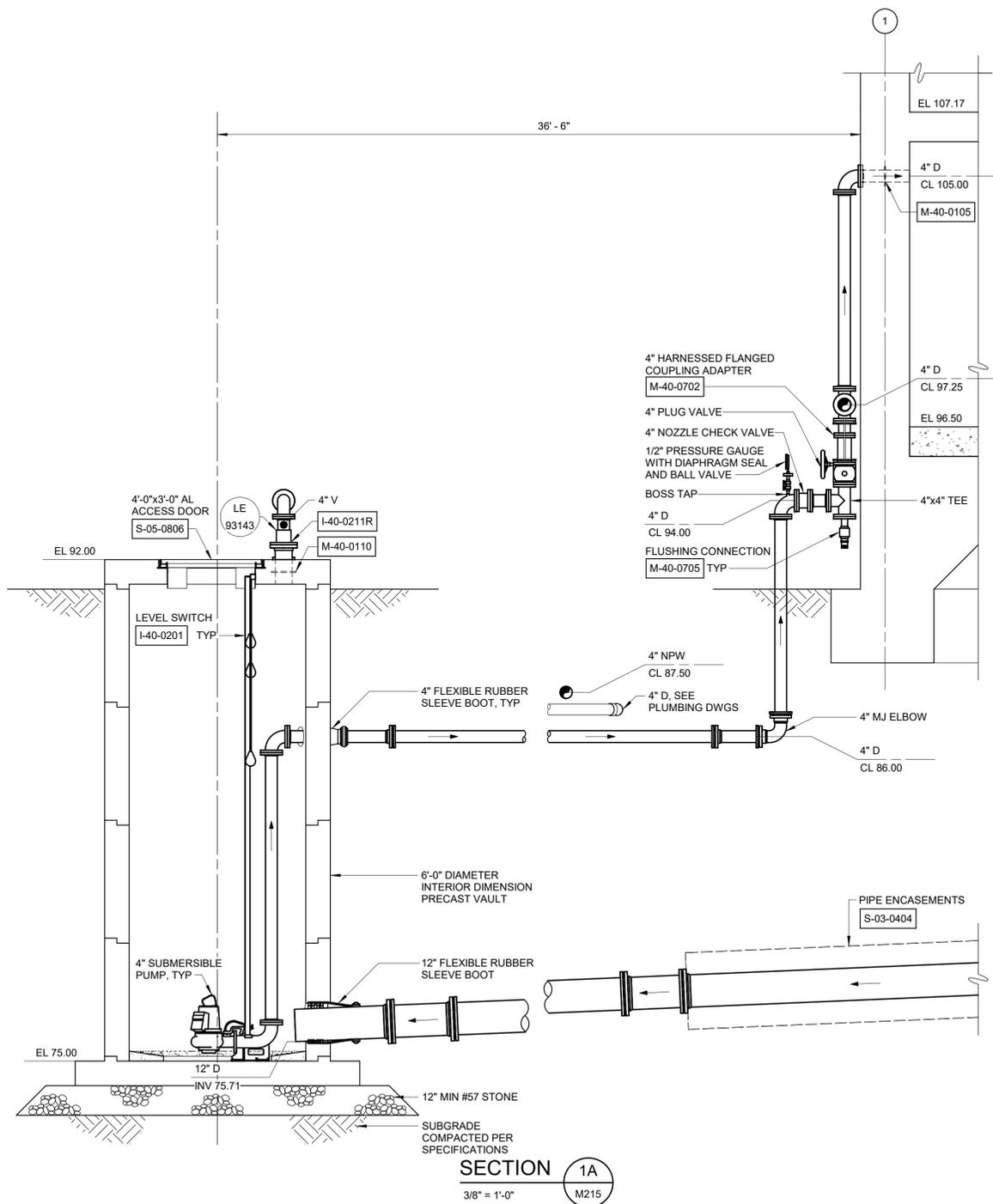
Hazen
HAZEN AND SAWYER
4011 WESTCHASE BOULEVARD,
RALEIGH, NORTH CAROLINA 27607
LICENSE NO.: C-0381

PUBLIC WORKS COMMISSION
CITY OF FAYETTEVILLE, NORTH CAROLINA

GLENVILLE LAKE AND P.O. HOFFER
WATER TREATMENT FACILITY POST
FILTER GAC ADSORPTION FACILITIES

P.O. HOFFER WTF - INTERMEDIATE PUMP STATION
AND GAC FACILITY
MECHANICAL
OVERALL SECTIONS - SHEET 12

DATE:	AUGUST 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M216



DRAIN PUMP STATION

DETAIL	1
3/8" = 1'-0"	M201

GAC EDUCATION STATION

DETAIL	2
3/8" = 1'-0"	M202

Autodesk Docs/02/02/2024_087_Post-Filter GAC Adsorption Facilities/04/02/087-POH-200-IPS-GAC-M.rvt 8/23/2025 3:22:11 PM

1	REGULATORY APPROVAL	12/2024	DCH
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	C. HOPKINS
DESIGNED BY:	C. DAY
DRAWN BY:	C. SCHLOSSBERG
CHECKED BY:	D. BRILEY

PRELIMINARY - NOT ISSUED FOR CONSTRUCTION

Hazen
HAZEN AND SAWYER
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RALEIGH, NORTH CAROLINA 27607
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PUBLIC WORKS COMMISSION
CITY OF FAYETTEVILLE, NORTH CAROLINA

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P.O. HOFFER WTF - INTERMEDIATE PUMP STATION
AND GAC FACILITY
MECHANICAL
DETAILS - SHEET 2

DATE:	AUGUST 2025
HAZEN NO.:	30402-067
CONTRACT NO.:	1
DRAWING NUMBER:	M222