ADDENDUM NO. 2

DATE: September 24, 2026

PROJECT: WWTP CSO 1 Improvements

OWNER: City of Elwood

ENGINEER: Whitaker Engineering

TO: PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and modifies the original Drawings and Project Manual dated September 1, 2026. The information included in this Addendum shall become a part of the basic Drawings and Project Manual, the same as if originally incorporated therein. The original Drawings and Project Manual shall remain in their entirety, except as modified by Addendum. The items herein supersede information in the Drawings and Project Manual.

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 consists of five (5) pages and the following attachments:
1. Pre-Bid Meeting Minutes and Sign-In Sheet (6 pages)
2. Updated sodium hypochlorite metering pump skid detail (1 page)
3. Anticipated Pavement Repair/Replacement Limits – 2" Mill & Resurface (1 page)
4. Revised Section 00 41 00 – Bid Form (9 pages)
5. Proposed Crane System (Monorail) Scope of Supply (3 pages)
6. Mandatory Alternate #12 Exhibit (4 pages including sheets C402-A, D300-A, D301-A, and D302-A)
7. Crane Foundation Details (1 page)
8. Exhibit for Sheet D110, Section 2 revisions (1 page)
9. Concrete Pipe Support Detail for underflow pipe in geo-foam space under swirl concentrator (1 page)

GENERAL CLARIFICATIONS:

1. The systems integration scope of supply (Toric Engineering) and allowance amount will be provided via future addendum. The contractor is responsible for any items in the project not covered by this scope of work.
2. The final day for questions has been extended to Wednesday, September 30 at 12:00 PM.
3. The pre-bid meeting was held on Monday, September 21, 2026. The meeting minutes and sign-in sheet are attached to this addendum.
4. All equipment warranties shall be at least 1 year from substantial completion per General Conditions Section 13.07.

5. As indicated in the Drawings, the following items shall be provided by the contractor to accommodate the swirl concentrator unit:
    a. Pressure transducer
    b. Non-potable water piping
    c. Gravity underflow piping
    d. Concrete tank and sloped benching
    e. Effluent chamber with drop pipe
6. The sodium hypochlorite metering pump skid detail on sheet D119 is incorrect. The pump skid size/footprint is still as shown on the Drawings. See the attached updated pump skid detail.
7. Grit Czar specification (Appendix W) will not be provided. Contractor shall reference the swirl concentrator specifications currently included in the bidding documents or as revised by any future addendum.
8. A line stop may be required to install the NPW line. Any line stop(s) required shall be considered incidental and shall be provided by the contractor at no additional cost to the Owner. A flanged butterfly valve shall be installed as the potable water line enters the building to isolate the rest of the potable water system while re-piping is being completed.
9. The Subcontractors and Suppliers List and GPR Bid Breakdown (Attachment E) shall be provided by Bidders within 48 hours after the bid opening.
10. A significant portion of the existing pavement within the WWTP will likely be disturbed due to construction traffic and the installation of the underdrain from the Storm King to the existing headworks building. Trench repairs shall be as detailed on the Drawings. Bidders shall also include cost for 950 CY of 2" mill and resurface of existing pavement in their bid. See attached exhibit for expected mill and resurface limits. If contractor anticipates disturbance beyond these limits they shall include the additional cost with their bid.

CHANGES TO PROCUREMENT & CONTRACTING DOCUMENTS:

1. Remove Bid Form (Section 00 41 00) in its entirety and replace with the attached Bid Form. Included revisions:
    a. Added allowance item for systems integration (Toric Engineering). Allowance amount will be provided to Bidders via future addendum which could be issued late as Monday, October 5th. This amount shall be entered into the contractor's bid form manually and included in their lump sum total base bid amount.
    b. Added Mandatory Alternate #12 – Precast Lift Station and Screen Structures in Lieu of Cast-in-Place Structures (see attached exhibit).
        i. A 3-ton, 38' outdoor monorail system shall be provided as indicated on the attached exhibit. The monorail system shall include a 3-ton motorized wire hoist and trolley, and 3-ton rated structural system suited for outdoor installation. The monorail system shall be provided by Crane-Tec or equal.
        ii. Electrical scope for monorail system power shall be provided via future addendum.
2. Section 00 52 00 – Agreement
    a. Revise Section 6.02.A.1.a as follows:

        6.02.A.1.a ~~90%~~ **97%** of Work completed (with the balance being retainage). ~~If the Work has been 50% completed as determined by ENGINEER, and if the character and progress of the Work have been satisfactory to OWNER and ENGINEER, OWNER, on recommendation of ENGINEER, may determine that as long as the~~

~~character and progress of the Work remain satisfactory to them, there will be no retainage on account of Work subsequently completed, in which case the remaining progress payments prior to Substantial Completion will be in an amount equal to 100% of the Work completed less the aggregate of payments previously made; and~~

b. Revise Section 6.02.A.1.b as follows:

6.02.A.1.b ~~90%~~ **97%** of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

c. Revise Section 6.02.A.2 as follows:

6.02.A.2 Upon Substantial Completion, OWNER shall pay an amount sufficient to increase total payments to CONTRACTOR to ~~95%~~ **100%** of the Work completed, less such amounts as ENGINEER shall determine in accordance with paragraph 14.02.B.5 of the General Conditions and less ~~100%~~ **200%** of ENGINEER's estimate of the value of Work to be completed or corrected as shown on the tentative list of items to be completed or corrected attached to the certificate of Substantial Completion.

CHANGES TO DRAWINGS:

1. The 8" and 4" underflow pipes are ductile iron pipe in all locations. All references to "PVC" material for these pipes are changed to "ductile iron" material.
2. Revised Detail #2 - Asphalt Access Drive and Asphalt Repair Detail on sheet C601 (New Asphalt Drive, At Tank, and Asphalt Drive Repair details): where class #53 stone is called out, the depth of stone shall be a minimum of 16".
3. Section 2 on sheet D110 shall be revised as indicated on the attached exhibit.
4. Underflow pipe in geo-foam space under swirl concentrator shall be provided with concrete supports. Add the attached "Concrete Pipe Support Detail" to sheet D120.

CHANGES TO SPECIFICATIONS:

1. Section 01 20 00 – Price and Payment Procedures
   a. Remove section 1.2 – CONTINGENCY ALLOWANCES in its entirety.
2. Section 01 33 00 – Submittal Procedures
   a. Revise Section 1.3.F as follows:

   1.3.F For each submittal for review, allow **fifteen (15) business** ~~15~~ days excluding delivery time to and from Contractor.

   b. Revise Section 1.17.A as follows:

   1.17.A Do not make "mass submittals" to Engineer. "Mass submittals" are defined as **four (4)** ~~six~~ or more submittals or items in one day or **fifteen (15)** ~~20~~ or more submittals or items in one week. **"Mass submittals" shall also be defined as submittals containing multiple (3 or more) elements, components or systems covered under different sections of the specifications.** If "mass submittals" are received, Engineer's review time stated above will be extended as necessary to perform proper review. Engineer will review "mass submittals" based on priority determined by Engineer after consultation with Owner and Contractor.

c. Add the following section immediately after Section 1.17.E:

1.17.E Where the Submittal requires review of 1 or more engineering sub-consultants, the review time shall be extended by an additional three (3) days to allow the Engineer time to transmit to and process the subconsultant's review information.

3. Section 09 96 00 – High Performance Coating Systems for Wastewater Treatment Plants
   a. Section 09 96 00 to be provided with future addendum.

4. Section 26 10 00 – Variable Frequency Motor Controllers
   a. Section 2.01.B.1.b. Remove section entirely and replace with the following:

      2.01.B.1.b To ensure adequate heat dissipation the drive unit shall include an integral cooling unit sized such that it will not degrade the enclosure rating.

   b. Section 2.01.M, add Yaskawa as an approved manufacturer.

5. Appendix G1 – Non-Clog Submersible Pumps (Grundfos)
   a. Revise Section 2.3D as follows:

      D. Pump shaft shall be ~~either~~ **high tensile steel** ~~or stainless steel~~. Pump and motor shall be shipped from the factory as a finished product. Pumps that are assembled outside of the manufacture's facility are not allowed.

6. Appendix V – Mandatory Alternate 8 – Alternate Wet Weather Lift Station Pumps, Control Panel, and Associated Work (WILO Model FA 35.54T)
   a. Modify Appendix V1 as follows:
      1. Part 1 – section 1.1.A Description to read:

         A. The General Contractor shall furnish, install, test and place in satisfactory operation, as shown on the Plans and specified, three (3) Wilo EMU **model FA 35.54T+T 42-8/50Gex** ~~6/36GEx~~ wet-pit submersible pumps complete with all appurtenances, accessories and spare parts as will be required to produce a complete and workable installation. To maintain system unit responsibility, the pump control system shall be furnished by the pump manufacturer as described herein.

      2. Part 2 – Section 2.1.B.1. (the pump performance table) shall be modified to read:

         Modify Lines:

Duty Point Total Dynamic Head, feet:	**52.0** ~~52.1~~ feet
Minimum Hydraulic Efficience at Duty Point, %:	**79.0** ~~72.13~~ %
Maximum NPSH-R at Duty Point, feet:	**21.7** ~~24.7~~ feet
Minimum Shut-off Presssure, feet:	**103.6** ~~approximately 97~~ feet
Impellor Trim:	**20.47 in**

         Remove lines:

         ~~Secondary Rating Point Flow, gallons per minute~~
         ~~Secondary Rating Point Total Dynamic Head, feet~~
         ~~Minimum Hydraulic Efficiency at Secondary Rating Point, %~~

      3. Section 2.2.B.1 (Volute), as follows

         1. The volute shall be constructed of **ASTM A536 Gr.80-55-06** ~~ASTM 48 Class 35B (GG25)~~ or higher cast iron capable of prolonged resistance to raw sewage.

      4. Section 2.2.B.2 (Impeller), as follows

         2. Pump Impellors shall be manufactured of **ASTM A536 Gr.80-55-06** ~~ASTM 48 Class 35B (GG25)~~ or higher ductile iron.

      5. Section 2.2.D. Wear Rings, as follows

1. The impeller shall be provided with an **AISI 304** ~~329 (1.4462)~~ duplex stainless steel wear ring which is drive fitted to the suction eye of the impeller.
2. The casing shall be provided with an **AISI 329** ~~304 (1.4308)~~ stainless steel wear ring which is drive fitted to the bottom suction inlet.

6. Section 2.3.C.2 (Mechanical Seals), as follows
    2. A moisture sensor shall be furnished to sense moisture intrusion for each pump. This sensor shall be wired to the Pump Control Panel (specified in **Appendix V2 and** Division 26) and shall activate an alarm light upon moisture intrusion.

b. Appendix V2 – Mandatory Alternate 8 – WILO Lift Station Control Panel Specifications to be provided via future addendum.

END OF ADDENDUM NO. 2

PRE-BID MEETING
City of Elwood, IN WWTP CSO 1 Improvements
September 21, 2026

1. **Introduction of Official Representatives and Locations**
   A. Owner: City of Elwood
      City Municipal Building: 1505 South B Street, Elwood, IN 46036
      Project Location: Elwood WWTP, 900 South J Street, Elwood, IN 46036
      Mayor: Todd Jones
      Plant Operator: Josh Ginder

   B. Engineer: Whitaker Engineering Corporation
      Office: 8606 Allisonville Road, Suite 235
      Project Manager: Cecil Whitaker
      Designer: Josh Elliott
      Inspector: Sean Morgan

2. **Project Description**
   A. The work shall consist of construction of a new 20 MGD wet weather lift station, with a mechanical fine screen and washer-compactor for the screenings, a 20 MGD Storm King Swirl Concentrator with liquid sodium hypochlorite for disinfection and sodium bi-sulfate de-chlorination, related tank dewatering and solids treatment systems, flow monitoring and controls and a new non-potable process water storage and booster pump system, building modifications and additions to existing buildings, and two new diesel engine generators.

3. **Bid Opening**
   A. Bids are due Monday October 5th by 5:45 PM and shall be delivered to the Clerk-Treasurer's office in the City Municipal Building. Prior to the bid date, Bids shall be delivered to: City of Elwood Clerk Treasurer, 1505 South B Street, Elwood, Indiana 46036. The bid envelope must be sealed and state "BID – CSO 1 WWTP Improvements"
   B. Bids shall be opened Monday October 5th at 6:00 PM in the City Municipal Building Council Chambers

4. **Deadline for Questions** – Monday, September 28, 2026

5. **Deadline for Approved "or equals"** – Wednesday, September 23, 2026

6. Project Schedule and Funding

A. Loan closing is scheduled for November 12, 2026.
B. 90-day bid hold. Notice of Award is expected within 30 days of loan closing.
C. Preliminary Notice to Proceed shall be issued within 10 days of Notice of Award.
   i. Preliminary Notice to Proceed authorizes contractor to begin administrative and pre-construction tasks only. Field visits during the Preliminary NTP period are permitted, but need to be scheduled through Whitaker Engineering.
D. Completion dates based on March 1, 2027 Notice to Procced
   i. Tentative Substantial Completion Date – April 14, 2028 (410 days)
   ii. Tentative Final Completion Date – May 29, 2028 (455 days)
E. Project funding is through the State Revolving Fund (SRF) program administered by the Indiana Finance Authority (IFA). All project components must comply with the Build America, Buy America Act (BABA) which requires all the iron and steel products, manufactured products, and construction materials, permanently incorporated in the project be produced in the United States.

7. Permits

A. IDEM WWTP Construction Permit is included in Appendix C of the Project Manual.
B. This project is exempt from Construction Stormwater General Permit (CSGP) requirements due to anticipated disturbance area less than 1 acre. However, contractor shall comply with all applicable erosion control standards.

8. Scope of Work

A. Note an updated Bid Form will be released via future addendum to included allowance item for systems integration (Toric Engineering) and Mandatory Alternate #12 – Precast Lift Station and Screen Structures in Lieu of Cast-in-Place Structures.
B. Items on Bid Form (Lump Sum):
   1. Wet Weather Lift Station & Screen System
   2. Swirl Concentrator
   3. Chemical Feed System
   4. Non-Potable Water System
   5. Electrical an Controls
   6. Paintings and Coatings
   7. Yard Piping and Accessories
   8. Pavement (Asphalt)
   9. Demolition
   10. Erosion Control and Site Restoration
   11. Mobilization/De-Mobilization (NTE %)
C. Bid List is further broken down in the Itemized Cost List in the Project Manual.
D. There are currently 11 Mandatory Alternates included on the bid form:
   1. Alternate Electric Utility Feed – Utilize Existing Pole Mount Transformer in Lieu of New Pad Mount Transformer
   2. Remove All Lighting from Proposed Scope of Work Except for Tertiary Electrical Room and Pipe Gallery
   3. Remove Headworks Generator from Proposed Scope of Work

4. Remove Tertiary Building Generator from Proposed Scope of Work
5. Alternate Mechanical Screen (Duperon FlexRake FPFS, See Appendix S)
6. Alternate Mechanical Screen (Parkson Model AC-F, See Appendix T)
7. Alternate Wet Weather Lift Station Pumps, Control Panel, and Associated Work (Flygt Model NP 3400, See Appendix U)
8. Alternate Wet Weather Lift Station Pumps, Control Panel, and Associated Work (WILO Model FA 35.54T, See Appendix V)
9. Alternate Swirl Concentrator (Envirodyne Systems Grit Czar, See Appendix W)
10. Reduce Scope of Work for Demolition within Existing Pipe Gallery – Only Remove Ductile Iron Piping Necessary to Install Swirl Concentrator and Associated Components and Chemical Feed Systems. Work Includes Relocation of Existing Blind Flanges as Needed
11. CSO 16 Improvements (See Appendix X)

E. A mandatory alternate for precast lift station and screen structures will be added via forthcoming addendum. Additional drawings will be provided for this mandatory alternate via future addendum.

9. Soils

A. Disposal of spoils – Spoils shall be delivered to the Elwood Street Department (directly southeast of the WWTP) as indicated in Addendum #1.
B. A geotechnical report is included in Appendix A of the Project Manual.

10. Miscellaneous

A. Whitaker Engineering will be performing construction observation and administrative services.

11. Clarifications

A. Davis-Bacon wage rates will be apply to this project.
   i. A final addendum may be issued as late as Monday, October 5th if a new wage decision is issued by the Department of Labor near the end of the bid period. Bidders should be prepared to acknowledge such addendum on their bid form prior to the October 5th bid opening.
B. The following supplemental documents must be provided with the contractor's bid package:
   i. Green Project Reserve (GPR) Bid Breakdown (Attachment E in the Project Manual)
   ii. Disadvantaged Business Enterprise (DBE) Good Faith Efforts worksheet (Attachment J in the Project Manual)
   iii. The Certification from Contractor Related to the Build America Buy America Act (Attachment M in the Project Manual)
C. Instrumentation and controls subcontractor shall be the Owner's system integrator:
   Toric Engineering
   Nathen Burkhart
   (317) 718-1800 ext. 8111
   nburkhart@toriceng.com

D. Due to the scheduled loan closing for this project, a bid extension cannot be considered.
E. Once the Preliminary NTP is issued, the successful bidder will be expected to move quickly to issue purchase orders and request shop drawings from manufacturers to minimize, to the greatest extent possible, lead times for submittals and delivery. It is critical that the contractor make every effort to secure equipment pricing prior to beginning of the year price increases. Change orders for equipment price increases after bid date will not be considered.

12. Equipment Suppliers – Not a complete list of project equipment or suppliers.
A. American Pump & Repair
   i. Duperon Screen (Appendix E)
   ii. Grundfos NPW Booster Pump Skid (Appendix L)
   iii. Grundfos Lift Station Pumps (Appendix G)
B. HP Thompson
   i. Storm King Swirl Concentrator (Appendix D)
   ii. Prominent Pump Dosing Skids (Appendix F)

13. Addenda:
A. Addendum #1 was issued on Wednesday, September 16, 2026.
B. Addendum #2 will be issued later this week.

14. Questions:
Q1. Will the systems integration allowance be provided on the Bid Form or will the contractor be required to solicit from Toric Engineering?
A1. The allowance amount will be provided on the revised Bid Form which will be included in a future addendum.

Q2. How will the bids be evaluated with the mandatory alternates?
A2. The Base Bid is the preferred option. However, the mandatory alternates are provided to allow the Owner to select deductive alternates to help ensure the project is awarded within budget. Mandatory alternates are the differences (adds/deducts) in cost from the Base Bid amount. In the comparison of the bids, the Owner selected alternates will be applied to the total Base Bid amount.

Q3. If project budget is a concern, has there been consideration to remove the 5% contingency allowance as indicated in Section 01 20 00?
Q4. The requirement for a 5% contingency allowance will be removed by a future addendum.

Q4. The retainage indicated in the Agreement document does not appear to match the current Indiana state law which stipulates either a maximum of 6% retainage until 50% completion or 3% retainage until substantial completion.
A4. The retainage amounts will be revised in a future addendum.

Q5. Appendix C (IDEM Construction Permit) indicates that the Storm King unit was approved. Has the Grit Czar unit (Mandatory Alternate #9) been approved by IDEM?
A5. Whitaker Engineering has discussed this with IDEM. A permit modification will be pursued after bidding should the alternate be selected by the Owner. A permit modification will also be required for the precast lift station and screen structures (Mandatory Alternate #12). After bid opening, Whitaker will coordinate with IDEM on any required permit modifications. Based on IDEM review period, any revised permits will be received well in advance of start of construction.

Q6. What project components will be supplied by the Owner?
A6. The screenings dumpster and 18” ductile iron pipe for the 36” influent pipe support will be supplied by the Owner. Note there will be sections of existing 18” ductile iron pipe removed from the pipe gallery as part of the contractor’s demolition scope. It is intended that a section of this existing pipe be used for the 36” pipe support.

Q7. Is there a concern about project financing?
A7. There are enough deductive mandatory alternates in the Bid Form to proceed with the project. Elwood will close on a loan for this project on November 12, 2026 as scheduled.

WHITAKER ENGINEERING

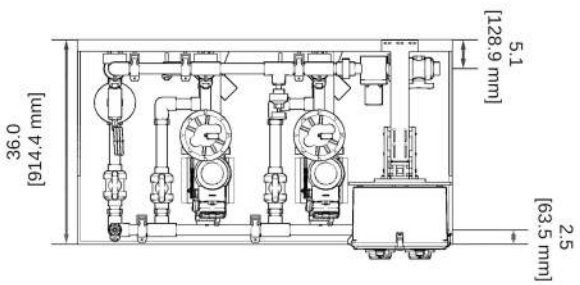
PRE-BID MEETING ATTENDANCE
City of Elwood, IN WWTP CSO 1 Improvements
September 21, 2026

	Name	Organization	Phone	Email	Initial
1	Josh Ginder	City of Elwood	(765) 552-5512	jginder@elwood.in.gov	JG
2	Cecil Whitaker	Whitaker Engineering	(317) 324-1276	cwhitaker@whitakerengineering.com	CW
3	Matthew Whitaker	Whitaker Engineering	(317) 324-0174	mwhitaker@whitakerengineering.com	MW
4	Keegan Dunn	Whitaker Engineering	(317) 960-5801	kdunn@whitakerengineering.com	KD
5	BRIAN CORYELL	THIENEMAN Construction	765-603-0269	estimating@t-c-i.net brian.coryell@t-c-i.net	
6	Donielle Trivett	Toric Engineering	317-718-1800 x8852	dtrivett@toriceng.com	DT
7	Drake Skiles	Toric Engineering	317-600-4020	dskiles@toriceng.com	DS
8	Brandon Haze	Bowen	317 646 5977	bhaze@BowenSqp.com	BH
9	Eric Nitss	Bowen	317-362-5554	eric.nitss@Bowensqp.com	EN
10	Brittany Wall	Bowen	317-447-6766	BWall@Bowensqp.com	BW
11	John Gundrum	Floodwaste Services	317-714-7995	jgundrum@Floodwaste.com	JG
12	Jason Dougherty	Sherwin Williams	317-314-2180	jason.r.dougherty@sherwin.com	JD
13	JEFF BURLES	Kokosing	602-820-6390	jeff.burles.kokosing.biz	JB
14	Mitchell Green	Ottenweller Contracting	260 750 8121	mitch.green@ottenweller.com	MG
15	ANDREW MORGAN	RMA DIRTWORKS	574-721-1586	admorgan1911@YAHOO.COM	AM
16	SEAN MORGAN	Whitaker	765-491-3046	smorgan@whitakerengineering.com	SM
17	NICK EGLER	Industrial Electric Inc	317-379-5158	nicholasegler@industelectric.com	NAE

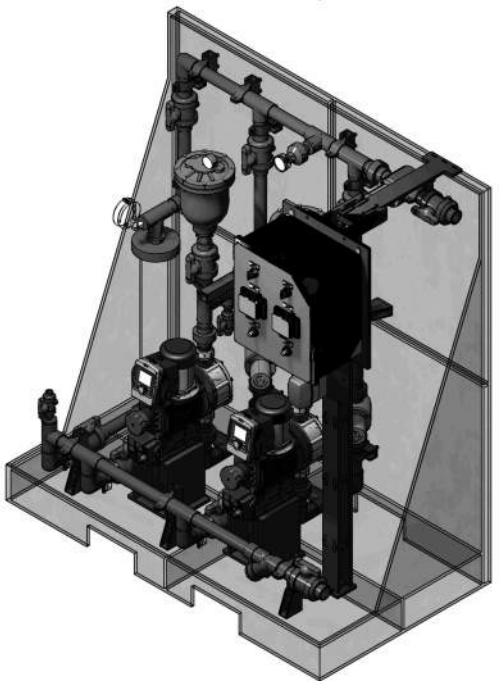
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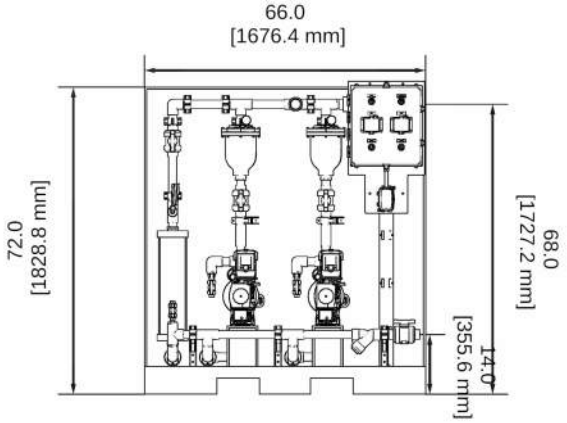
1. CHEMICAL SERVICE: Sodium Hypochlorite (12.5%)
2. PIPING MATERIAL: PVC / Viton SEALS UNLESS OTHERWISE REQUIRED BY COMPONENTS.
3. PUMPS: Motor Control, S3CBH070410PVTS170UV81001EN07, Rated 132.00 gph @ 102.00 psi / 500.00 lph @ 7.00 bar
4. TOLERANCES ON ALL DIMENSIONS ARE +/- 3/8" (10mm).



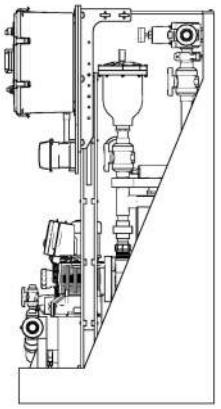
PLAN VIEW



ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW

REV	DATE	DESCRIPTION	BY	APPD	REVD
0	08/17/26	FIRST ISSUE	GJS		

REVISIONS

CUSTOMER: The Henry P. Thompson Company

JOB No | PURCHASE ORDER No

TITLE: MS2-S3C-D-PCV-PD4-CC7-F1-PB-RS-RD-SC
GENERAL ARRANGMENT

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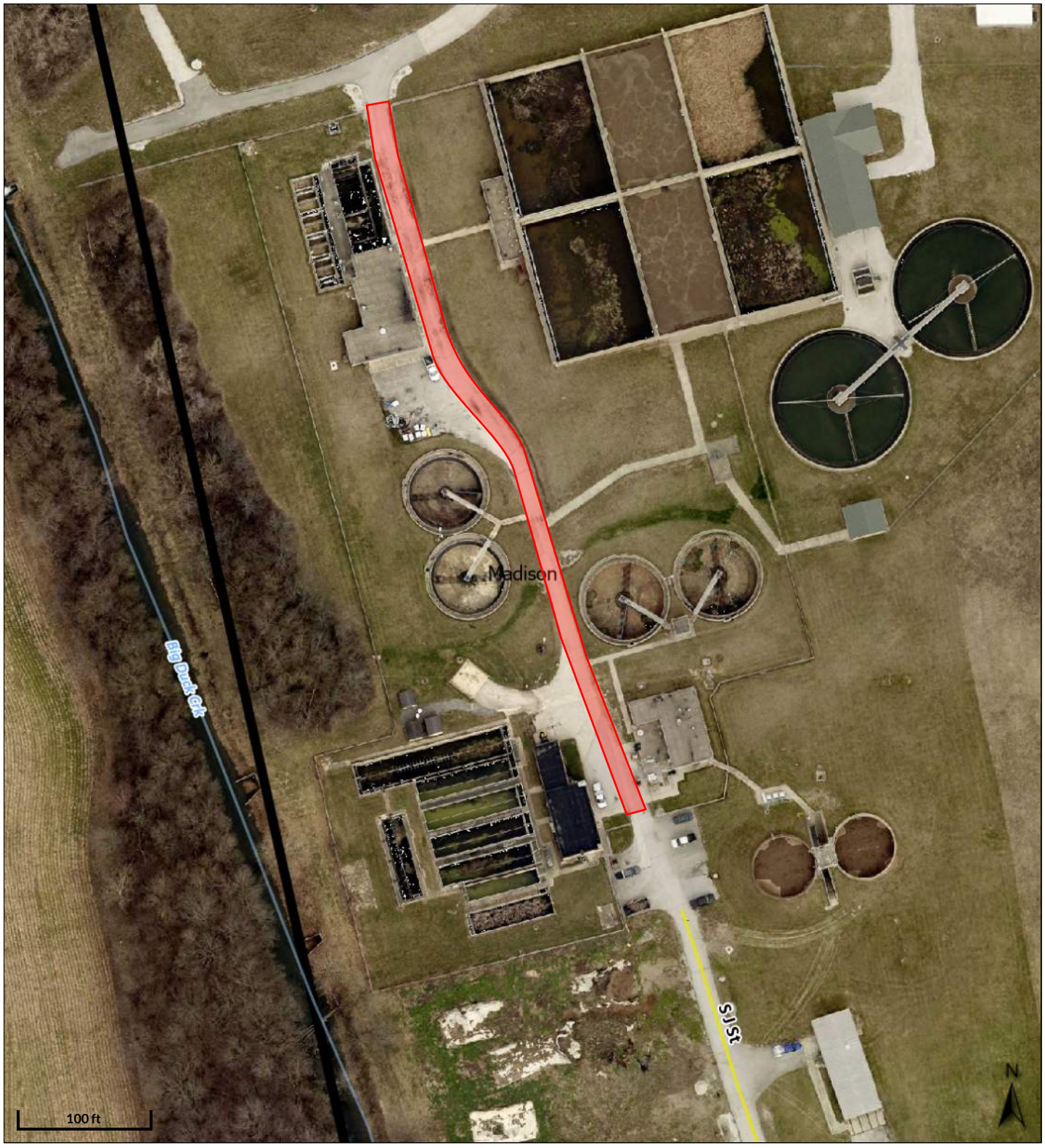
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PITTSBURGH P.A., USA. 15275
TEL. 412 787 2484 FAX. 412 787 0704

DESIGNED	GJS	APPROVED	KH
DRAWN	GJS	SCALE	N. T. S.
CHECKED	KH	DATE	08/17/26

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Beacon™ Madison County, IN | Assessor Larry D. Davis

Elwood WWTP CSO 1 - Anticipated Pavement Repair/Replacement Limits



BID FORM

LTCP CSO 1 WWTP Improvements

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ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

City of Elwood, 1505 South B Street, Elwood, Indiana 46036

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

2.02 Bidder acknowledges that all Work as indicated in the Bidding Documents shall comply with all Domestic Preference (Build America, Buy America) requirements.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

Addendum No.	Addendum Date
1	**9/16/26**
2	**9/23/26**

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations, including BABAA requirements, that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in SC-4.02, and (2) reports and drawings of Hazardous Environmental Conditions that have been identified in SC-4.06.

E. Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

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G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

I. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

K. Bidder will submit written evidence of its authority to do business in the state where the Project is located not later than the date of its execution of the Agreement.

ARTICLE 4 – FURTHER REPRESENTATIONS

4.01 Bidder further represents that:

A. this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation;

B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

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ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

BASE BID		
Item	Description	Lump Sum Price
1	Wet Weather Lift Station & Screen System	
2	Swirl Concentrator	
3	Chemical Feed System	
4	Non-Potable Water System	
5	Electrical and Controls	
6	**Systems Integration Allowance (Toric Engineering)**	
7	Painting and Coatings	
8	Yard Piping and Accessories	
9	Pavement (Asphalt)	
10	Demolition	
11	Erosion Control and Site Restoration	
12	Mobilization/De-Mobilization (NTE 5%)	
	TOTAL LUMP SUM BASE BID PRICE	

The price of all proposed work from the Contract Documents shall be accounted for in the categories above. All component costs for complete systems shall be included in the bid price. See Itemized Cost List for further details within each category.

Lump Sum Bid Price for Base Bid _____ *$*_____
(words) *(numerals)*

All specified cash allowances are included in the price(s) set forth above and have been computed in accordance with Paragraph 11.02 of the General Conditions.

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5.02 Bidder shall provide prices for the following Mandatory Alternates:

MANDATORY ALTERNATE 1				
Item	Description	(circle one)		Amount
1	Alternate Electric Utility Feed – Utilize Existing Pole Mount Transformer in Lieu of New Pad Mount Transformer	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 1 LUMP SUM PRICE			

MANDATORY ALTERNATE 2				
Item	Description	(circle one)		Amount
1	Remove All Lighting from Proposed Scope of Work Except for Tertiary Electrical Room and Pipe Gallery	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 2 LUMP SUM PRICE			

MANDATORY ALTERNATE 3				
Item	Description	(circle one)		Amount
1	Remove Headworks Generator from Proposed Scope of Work	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 3 LUMP SUM PRICE			

MANDATORY ALTERNATE 4				
Item	Description	(circle one)		Amount
1	Remove Tertiary Building Generator from Proposed Scope of Work	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 4 LUMP SUM PRICE			

MANDATORY ALTERNATE 5				
Item	Description	(circle one)		Amount
1	Alternate Mechanical Screen (Duperon FlexRake FPFS, See Appendix S)	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 5 LUMP SUM PRICE			

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MANDATORY ALTERNATE 6				
Item	Description	(circle one)		Amount
1	Alternate Mechanical Screen (Parkson Model AC-F, See Appendix T)	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 6 LUMP SUM PRICE			

MANDATORY ALTERNATE 7				
Item	Description	(circle one)		Amount
1	Alternate Wet Weather Lift Station Pumps, Control Panel, and Associated Work (Flygt Model NP 3400, See Appendix U)	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 7 LUMP SUM PRICE			

MANDATORY ALTERNATE 8				
Item	Description	(circle one)		Amount
1	Alternate Wet Weather Lift Station Pumps, Control Panel, and Associated Work (WILO Model FA 35.54T, See Appendix V)	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 8 LUMP SUM PRICE			

MANDATORY ALTERNATE 9				
Item	Description	(circle one)		Amount
1	Alternate Swirl Concentrator (Envirodyne Systems Grit Czar, See Appendix W)	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 9 LUMP SUM PRICE			

MANDATORY ALTERNATE 10				
Item	Description	(circle one)		Amount
1	Reduce Scope of Work for Demolition within Existing Pipe Gallery – Only Remove Ductile Iron Piping Necessary to Install Swirl Concentrator and Associated Components and Chemical Feed Systems. Work Includes Relocation of Existing Blind Flanges as Needed.	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 10 LUMP SUM PRICE			

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MANDATORY ALTERNATE 11				
Item	Description	(circle one)		Amount
1	CSO 16 Improvements (See Appendix X)	Add	Deduct	
	TOTAL MANDATORY ALTERNATE 11 LUMP SUM PRICE			

MANDATORY ALTERNATE 12				
Item	**Description**	**(circle one)**		**Amount**
1	**Precast Lift Station and Screen Structures in Lieu of Cast-in-Place Structures**	**Add**	**Deduct**	
	TOTAL MANDATORY ALTERNATE 12 LUMP SUM PRICE			

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete within 410 calendar days after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 14.07.B of the General Conditions within 455 calendar days after the date when the Contract Times commence to run.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the Contract Times.

ARTICLE 7 – ATTACHMENTS TO THIS BID

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

A. Required Bid security in the form of a certified check or Bid Bond

B. General Form 96

C. List of Proposed Subcontractors and Suppliers

D. E-Verify Affidavit required by IC 22-5-1.7-11.

E. Attachment E – GPR Bid Breakdown

F. Attachment J – Disadvantaged Business Enterprise (DBE) Good Faith Efforts

G. Attachment M – Certification from Contractor Related to the Build America Buy America Act (BABA)

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

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ARTICLE 9 – BID SUBMITTAL

9.01 This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____
Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____
(CORPORATE SEAL)

Attest: _____
(Signature of Corporate Secretary)

Date of Qualification to do business in _____ *[State Where Project is Located]* is ____________.

A Joint Venture

Name of Joint Venturer: _____

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

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Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of second joint venture partner – attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business address: _____
_____

Phone: _____ Facsimile: _____

Submitted on _____, 20_____.

State Contractor License No. _____. (If applicable)

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12041 EAST MIAMI RIVER RD • CINCINNATI, OHIO 45252 • WWW.CRANE-TEC.COM • 800-755-6378

September 22, 2026 Proposal #5950

Whitaker Engineering
6930 Atrium Boardwalk South, Suite 200
Indianapolis, IN 46250

Attention: Keegan Dunn

As you requested, we are pleased to quote the following Crane-Tec/R&M monorail components.

Crane specifications are as follows:

Hoist Capacity:	3 Ton
Crane Class:	CMAA Class C
Hook Height:	49’-0”
Hoist Speed:	20/3.2 fpm
Trolley Travel Speed:	65 Variable fpm
Hoisting Motor:	7.2/1.2 hp
Trolley Travel Motor:	1 @ 0.5 hp
Voltage:	460/3/60
Crane Control:	Pendant

Other Features:

- Hoist overload cut-out safety switch
- Independent traveling pendant station
- Mainline contactor
- Thermistor overload protection on hoist motors
- Type 12 enclosures

Outdoor Features:

- IP-66 Hoist Panel
- IP-66 Trolley Motor Protection
- IP-66 Hoist Motor Protection
- Standby heater for hoist motor
- Standby heater for trolley traversing motor
- Standby heater for hoist control panel
- Rain covers for hoist

12041 EAST MIAMI RIVER RD • CINCINNATI, OHIO 45252 • WWW.CRANE-TEC.COM • 800-755-6378

September 22, 2026 Proposal #5950

Item 1

One (1) Crane-Tec/R&M 3 ton 38 foot outdoor monorail system complete with 3 ton motorized wire hoist and trolley and 3 ton rated structural system with all necessary columns, headers, monorail beam, plate material, hardware and end stops.

Item 2

38 feet of outdoor rated Conductix Safe Lec 2 runway electric including all necessary bar, hangers, power feeds and end caps. Disconnect and power to rail by others.

Furnish, install, start up and test items 1 and 2.

Selected Option

Option 1

In Motion K406 radio remote control with two transmitters and weather-proof box for storage.

~~Option 2~~

~~Certified Scales to perform a 125% weight test.~~

Delivery:16 weeks
Price good for 90 days
F.O.B.: Elwood, IN
Terms: Progressive
No bonding included in pricing
No Union Rates included in pricing
No State Sales Tax Applied
Permits by others
Structural steel is sand blasted and two part epoxy painted
Footings by others
Anchor bolts provided by Crane-Tec and installed with footings by Concrete Subcontractor

Thank you for the opportunity to submit our proposal. If you should have any questions, please do not hesitate to give me a call.

Very truly yours, Accepted By:

Mark Gibson
Project Manager

ELECTRICAL COMPONENT DATA

1 General

Monorail type SXRM3-TON Hol:59.06ft
Monorail main / control voltage.....460 V /60 Hz / Control 115 V
Nominal power of monorail .....7.5 hp
Maximum / nominal current of monorail*) .....50.2 A / 11.2 A
Power factor at starting / nominal current .....0.78 / 0.93

2 Bridge panel

Bridge panel type.....
Bridge panel length / weight (preliminary) .....0" / lbs
Main fuse size at bridge panel .....15 A

3 Hoist speed control

Type.....2 - speed
Voltage.....460 V
Control method / Location.....2 - step / Trolley panel

4 Trolley speed control

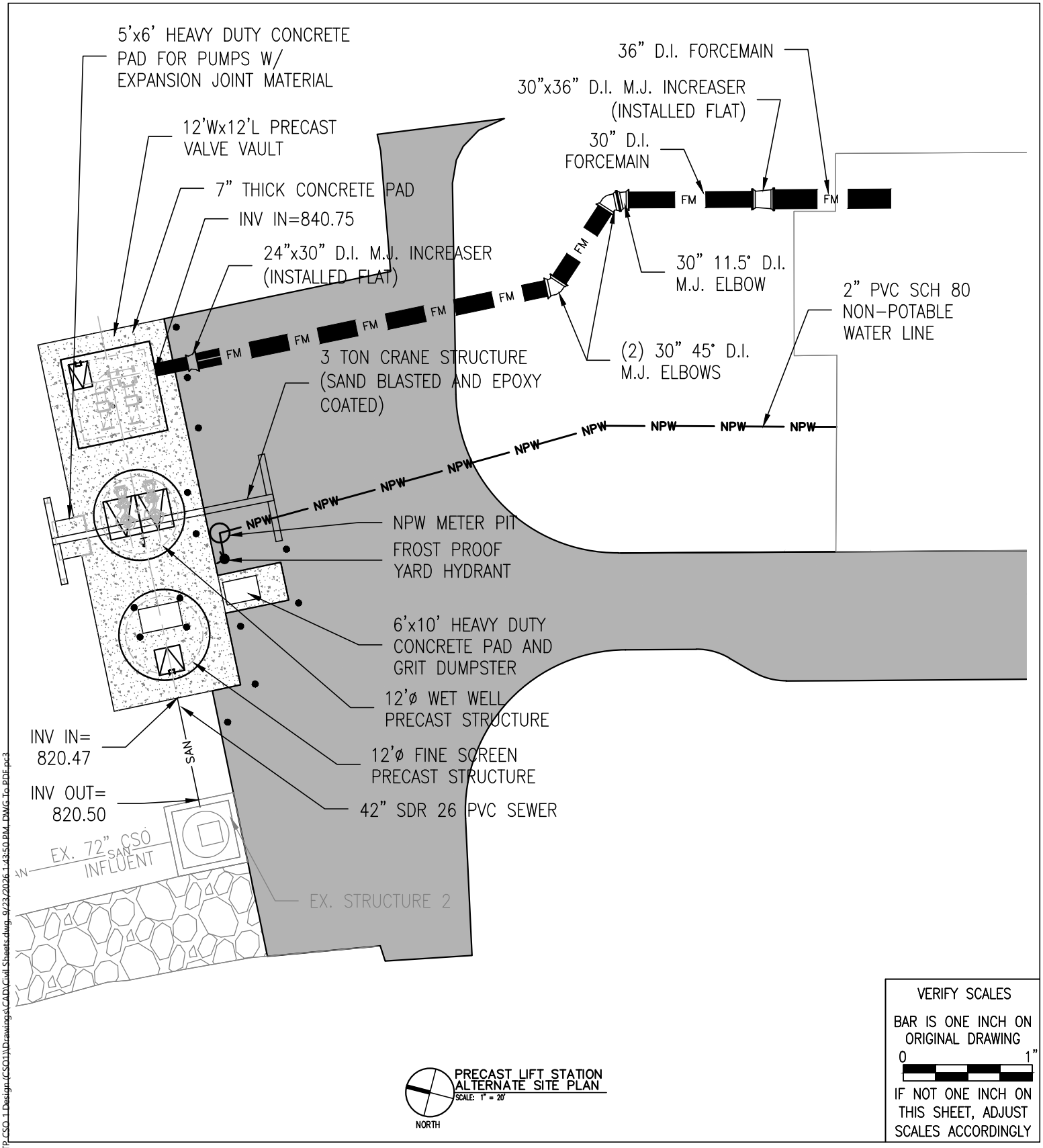
Type.....CMEDGE004E100
Voltage.....460 V
Control method / Location.....EP / Trolley panel
Adjusted acceleration time.....3.6 s
Nominal current margin (max. allowed / required).....3.0
Maximum current margin (max allowed / required) ...3.9

5 Monorail power supply

Type.....
Hoist main power cable type.....N/A
Distance between cable trolleys .....N/A
Cable trolley type .....N/A
Free cable length at bridge panel end .....N/A
Free cable length at hoist panel end.....N/A
Voltage drop of trolley power supply.....<= 4.0 %

6 Monorail control

Pendant type.....PD06-2202NC00-176H0
Pendant cable length .....57'-11"
Remote control type.....N/A
Radio frequency.....N/A
Control method .....2 step push-button



PRECAST LIFT STATION
ALTERNATE SITE PLAN
SCALE: 1" = 20'

NORTH

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

WHITAKER ENGINEERING

8606 Allisonville Rd, Suite 235 ● Indianapolis, IN 46250
(317) 324-1276 - Corporate ● (317) 324-1276 -Fax

PROJECT: ELWOOD CSO 1 IMPROVEMENTS

DRAWN BY: JLE CHECKD BY: CLW

DATE: 9/23/26 SCALE: 1"=20'

SHEET NO. C402-A

m:\Elwood (El)\LTCP\4 Design - WWTP_CSO 1 Design (CSO1)\Drawings\CAD\Civil Sheets.dwg, 9/23/2026 1:43:50 PM, DWG To PDF.pc3

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE WWTP OPERATOR AND OWNER AND SHALL MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. NO WORK IMPACTING EXISTING SYSTEMS SHALL PROCEED WITHOUT PRIOR APPROVAL.

2. THE CONTRACTOR SHALL VERIFY ALL EXISTING PIPING, STRUCTURES, UTILITIES, AND ELEVATIONS PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING.

3. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS TO EXISTING PIPING AND UTILITIES AND SHALL FURNISH AND INSTALL ALL FITTINGS, ADAPTERS, SUPPORTS, RESTRAINTS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM, WHETHER OR NOT SPECIFICALLY SHOWN.

4. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY PIPING, PUMPING, CONTROLS, POWER, AND APPURTENANCES REQUIRED TO MAINTAIN CONTINUOUS OPERATION DURING CONSTRUCTION.

5. SHUTDOWNS SHALL BE MINIMIZED AND REQUIRE PRIOR APPROVAL. THE CONTRACTOR SHALL SUBMIT A DETAILED SHUTDOWN AND SEQUENCING PLAN IN ADVANCE, INCLUDING DURATION, AFFECTED SYSTEMS, AND CONTINGENCY MEASURES.

6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THE LIFT STATION STRUCTURE WITH PIPING, EQUIPMENT, AND EMBEDMENT REQUIREMENTS AND SHALL PROVIDE ALL REQUIRED BLOCKOUTS, SLEEVES, EMBEDS, SUPPORTS, AND APPURTENANCES.

7. ALL PIPING SHALL BE INSTALLED TO THE LINE AND GRADE SHOWN. THE CONTRACTOR SHALL VERIFY SLOPES AND ELEVATIONS TO MAINTAIN PROPER HYDRAULIC PERFORMANCE.

8. ALL PIPE PENETRATIONS THROUGH STRUCTURES SHALL BE WATERTIGHT AND PROVIDED WITH APPROPRIATE SLEEVES, SEALS, OR WATERSTOPS.

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND SHALL COORDINATE LAYOUT, SPACING, AND CLEARANCES TO ENSURE PROPER FIT, ACCESS, AND OPERATION WITHIN THE AVAILABLE SPACE.

10. ALL MATERIALS AND EQUIPMENT SHALL BE SUITABLE FOR WASTEWATER SERVICE AND INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND MANUFACTURER REQUIREMENTS.

11. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, EQUIPMENT, AND UTILITIES FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

12. THE CONTRACTOR SHALL COORDINATE TESTING AND STARTUP WITH THE OWNER AND EQUIPMENT SUPPLIERS AND SHALL DEMONSTRATE PROPER OPERATION UNDER DESIGN CONDITIONS.

13. ALL PIPE, STRUCTURE, AND PROCESS ELEVATIONS SHALL BE GOVERNED BY THE HYDRAULIC PROFILES SHOWN ON SHEETS G103 AND G104. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN PROFILE, PLAN, AND SECTION ELEVATIONS PRIOR TO CONSTRUCTION.

14. CONTRACTOR MAY REUSE EXISTING FITTINGS REMOVED FROM THE PIPE GALLERY WHERE COMPATIBLE WITH THE PROPOSED WORK. PRIOR TO REUSE, CONTRACTOR SHALL VERIFY EACH FITTING IS OF THE REQUIRED SIZE, MATERIAL, PRESSURE CLASS, END CONNECTION, AND CONFIGURATION, AND IS FREE FROM CRACKS, EXCESSIVE CORROSION, DAMAGE, OR OTHER DEFECTS THAT MAY AFFECT PERFORMANCE. REUSED FITTINGS SHALL BE CLEANED, PREPARED, AND RECOATED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

PLAN NOTES

1. ANYTHING NOT LABELED/SHOWN AS EXISTING IS UNDERSTOOD TO BE PROPOSED AND PROVIDED BY THE CONTRACTOR.

2. PUMP CONTROL PANEL SHALL BE PROVIDED BY PUMP SUPPLIER AND SHALL BE COMPATIBLE WITH PUMP SYSTEM.

3. PIPING IN AND WITHIN THE ZONE OF INFLUENCE OF THE EXCAVATION OF THE VALVE VAULT STRUCTURES SHALL CONFORM TO AWWA C-151 AND BE DUCTILE IRON THICKNESS CLASS 53 IF FLANGED OR DUCTILE IRON THICKNESS CLASS 50 IF DIRECT BURIED. THE MINIMUM DIMENSION FOR D.I. PIPE OUTSIDE OF A STRUCTURE IS TEN (10) FEET. ALL FASTENERS WITHIN PUMP STATION STRUCTURE SHALL BE 316 S.S.

4. WET WELL HATCH SHALL BE COMPATIBLE WITH THE GUIDE RAIL SYSTEM AND SHALL BE LOCATED AS SHOWN SUCH THAT THE PUMPS CAN BE EASILY REMOVED FROM THE WET WELL. SAFETY NETTING SHALL ALLOW OBSERVATION OF WET WELL WHILE PREVENTING FALLS INTO WET WELL.

5. STAINLESS STEEL SINGLE-LEAF ACCESS HATCHES AND FRAME ASSEMBLIES FOR FINE SCREEN STRUCTURE, WET WELL AND VALVE VAULT SHALL HAVE FALL PROTECTIVE GRATING PANEL. THE CONTRACTOR AND PUMP MANUFACTURER SHALL PROVIDE A DIMENSIONALLY ACCURATE SKETCH OF THE WELL WELL AND VALVE VAULT SHOWING ALL PUMPS, VALVES, PIPING, AND EQUIPMENT TO CONFIRM THE PROPER LOCATIONS AND SIZE OF THE ACCESS HATCH FOR THE STRUCTURES. HATCH SHALL BE PROVIDED WITH TYPE 316 S.S. HARDWARE THROUGHOUT, AUTOMATIC HOLD-OPEN ARM WITH RELEASE HANDLE, SLAM LOCK WITH REMOVABLE HANDLE, 1-1/2 INCH DRAIN COUPLING, AND PADLOCK HASP.

6. LIFT CHAIN SHALL HAVE A MINIMUM WORKLOAD LIMIT OF 4,500 POUNDS.

7. FLOAT MOUNTING CABLE SHALL BE HELD IN PLACE BY WEIGHT, FLOATS SHALL BE FASTENED TO CABLE WITH S.S. CLAMPS NEAT EACH FLOAT LOCATION. PUMP POWER AND SENSOR CABLE SHALL BE SUITABLE FOR SUBMERSIBLE PUMP APPLICATIONS AND THIS SHALL BE SO INDICATED BY A CODE/LEGEND PERMANENTLY EMBOSSED ON THE CABLE.

8. PIPING AND FITTINGS IN WET WELL AND VALVE VAULT, SHALL BE APPROVED BY CITY, PRIMED TO A DRY FILM THICKNESS OF 5.0 TO 11.0 MILS AND SHALL BE FIELD PAINTED WITH TNEMEC SERIES 69-COLOR TO A DRY FILM THICKNESS OF 5.0 OR 6.0 MILS.

9. FITTINGS SHALL BE MANUFACTURED BY CLOW, MUELLER, OR TYLER.

10. GATE VALVES SHALL BE DEZURIK RESILIENT WEDGE WITH NON-RISING STEMS CONFORMING TO AWWA C-509. MECHANICAL JOINT VALVES SHALL BE USED FOR BURIED SERVICE APPLICATIONS.

11. PLUG VALVES SHALL BE MANUFACTURED BY DEZURIK AND FURNISHED WITH A FUSION BONDED EPOXY COATING INSIDE AND OUT IN ACCORDANCE WITH AWWA C-550.

12. INSTALL PUMP BASE PER MANUFACTURER REQUIREMENTS.

13. INSTALL THRUST BLOCKS PER DETAIL 2/S11.

14. PRECAST STRUCTURE DESIGN: PRECAST CONCRETE FINE SCREEN STRUCTURE, WET WELL, VALVE VAULT, TOP SLABS, BASE SLABS, JOINTS, CONNECTIONS, EMBEDS, OPENINGS AND APPURTENANCES SHALL BE DESIGNED BY THE PRECAST STRUCTURE MANUFACTURER. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF INDIANA.

15. PRECAST STRUCTURES SHALL BE DESIGNED FOR ALL APPLICABLE DEAD, LIVE, EARTH, HYDROSTATIC, SURCHARGE, EQUIPMENT, CONSTRUCTION, HANDLING, TRANSPORTATION AND INSTALLATION LOADS. DESIGN SHALL INCLUDE BOTH FULL AND EMPTY STRUCTURE CONDITIONS.

16. BUOYANCY: CONTRACTOR/PRECAST MANUFACTURER SHALL DESIGN EACH PRECAST STRUCTURE FOR RESISTANCE TO FLOTATION UNDER THE DESIGN GROUNDWATER CONDITION WITH THE STRUCTURE EMPTY. PROVIDE ANTI-FLOTATION BASE EXTENSIONS, BALLAST, CONNECTIONS OR OTHER MEASURES AS REQUIRED. SUBMIT BUOYANCY CALCULATIONS WITH PRECAST SHOP DRAWINGS.

17. ALL PRECAST STRUCTURES AND JOINTS SHALL BE WATERTIGHT. PROVIDE GASKETED OR MANUFACTURER-DESIGNED WATERTIGHT JOINTS BETWEEN PRECAST SECTIONS. SEAL PIPE PENETRATIONS, JOINTS, EMBEDS AND CONNECTIONS TO PREVENT INFILTRATION AND EXFILTRATION.

18. ALL PIPE OPENINGS SHALL BE FACTORY FORMED OR CORED IN ACCORDANCE WITH THE APPROVED PRECAST SHOP DRAWINGS. FIELD CUTTING OR MODIFICATION OF STRUCTURAL REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE PRECAST STRUCTURE ENGINEER.

19. PROVIDE FLEXIBLE, WATERTIGHT PIPE CONNECTIONS AT ALL PIPE PENETRATIONS THROUGH PRECAST STRUCTURES. CONNECTIONS SHALL ACCOMMODATE DIFFERENTIAL SETTLEMENT AND MINOR MOVEMENT BETWEEN STRUCTURES AND INTERCONNECTING PIPING.

20. PREPARE SUBGRADE AND PROVIDE COMPACTED STONE BASE AS SHOWN. REMOVE UNSUITABLE MATERIAL AND REPLACE WITH APPROVED COMPACTED MATERIAL. PRECAST MANUFACTURER SHALL VERIFY FOUNDATION BEARING REQUIREMENTS ARE COMPATIBLE WITH PROJECT GEOTECHNICAL CONDITIONS.

21. DIMENSIONS, PIPE INVERTS, STRUCTURE ELEVATIONS AND OPENING LOCATIONS SHOWN ARE REQUIRED PROCESS DIMENSIONS. PRECAST MANUFACTURER SHALL COORDINATE FINAL WALL THICKNESSES, JOINT LOCATIONS, REINFORCEMENT AND COMPONENT SIZES WITHOUT REDUCING THE REQUIRED INTERNAL CLEAR DIMENSIONS OR INTERFERING WITH EQUIPMENT.

22. PRECAST MANUFACTURER SHALL COORDINATE ALL OPENINGS, EMBEDS, ANCHORS AND STRUCTURAL REQUIREMENTS WITH APPROVED PUMP, SCREEN, VALVE, HATCH, CRANE AND OTHER EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.

23. EXCEPT AS SPECIFICALLY MODIFIED BY DRAWINGS C402-A AND D300-A THROUGH D303-A, ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING PROCESS, MECHANICAL, ELECTRICAL, INSTRUMENTATION, CONTROLS, SITE WORK AND EQUIPMENT REQUIREMENTS, SHALL REMAIN APPLICABLE TO THE PRECAST ALTERNATE.

24. PROVIDE COMPLETE 3-TON CRANE SYSTEM AND ASSOCIATED FOUNDATION IN ACCORDANCE WITH THE PREFABRICATED CRANE STRUCTURE AND CRANE FOUNDATION NOTES SHOWN ON THIS SHEET. COORDINATE FINAL FOUNDATION DESIGN WITH APPROVED CRANE MANUFACTURER LOADS AND ANCHORAGE REQUIREMENTS.

BID ALTERNATE - PRECAST WET WEATHER LIFT STATION
THESE DRAWINGS REPRESENT AN ALTERNATE TO THE CAST-IN-PLACE WET WEATHER LIFT STATION SHOWN IN THE BASE BID CONTRACT DOCUMENTS. THE PRECAST ALTERNATE SHALL PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM WITH HYDRAULIC, PROCESS, STRUCTURAL, MECHANICAL, ELECTRICAL, INSTRUMENTATION AND OPERATIONAL PERFORMANCE EQUIVALENT TO THE BASE BID DESIGN. EXCEPT WHERE SPECIFICALLY MODIFIED BY THESE ALTERNATE DRAWINGS, ALL REQUIREMENTS OF THE BASE BID CONTRACT DOCUMENTS SHALL REMAIN APPLICABLE.

CRANE STRUCTURE:
CRANE STRUCTURE SHOWN IS SCHEMATIC AND IS INTENDED TO INDICATE THE GENERAL LOCATION, CONFIGURATION, AND DESIGN INTENT ONLY. CONTRACTOR SHALL INCLUDE IN THE BID A COMPLETE PREFABRICATED CRANE SYSTEM WITH A MINIMUM RATED CAPACITY OF 3 TONS, INCLUDING COLUMNS, BEAMS, TROLLEY/HOIST SUPPORTS, BRACING, CONNECTIONS, BASE PLATES, ANCHOR RODS, AND ALL OTHER COMPONENTS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. CRANE SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER FOR THE REQUIRED LIFTING CAPACITY, SPAN, HEIGHT, OPERATING CONDITIONS, AND APPLICABLE DESIGN LOADS. CONTRACTOR SHALL COORDINATE FINAL CRANE DIMENSIONS, OPERATING ENVELOPE, EQUIPMENT LIFTING POINTS, AND REQUIRED CLEARANCES WITH THE WET WELL, HATCHES, PIPING, AND OTHER EQUIPMENT. SUBMIT MANUFACTURER'S SHOP DRAWINGS, DESIGN LOADS, AND FOUNDATION REACTIONS FOR ENGINEER REVIEW PRIOR TO FABRICATION OR CONSTRUCTION. FINAL FOUNDATION AND ANCHORAGE REQUIREMENTS SHALL BE COORDINATED WITH THE APPROVED CRANE SYSTEM.

CRANE FOUNDATION NOTE:
FOUNDATION DETAILS SHOWN ARE CONCEPTUAL AND SHALL NOT BE USED FOR CONSTRUCTION UNTIL FINAL CRANE MANUFACTURER LOADS AND ANCHORAGE REQUIREMENTS HAVE BEEN PROVIDED AND THE FOUNDATION DESIGN HAS BEEN REVIEWED AND APPROVED. CONTRACTOR SHALL INCLUDE IN THE BID ALL CONCRETE, REINFORCEMENT, ANCHOR RODS, EMBEDS, AND ASSOCIATED WORK REQUIRED TO SUPPORT THE COMPLETE 3-TON CRANE SYSTEM.

REVISIONS:
1 ADD. #2-ALT. #12, JLE, 9/23/26

SHEET TITLE: WET WEATHER LIFT STATION-PRECAST ALTERNATE #12 NOTES

PROJECT TITLE: WWTP CSO 1 IMPROVEMENTS

CORNERSTONE ENGINEERING INC
Strong Team. Smart Solutions.
CONSULTANT:
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(502) 493-2717 - Corporate
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CECIL L. WHITAKER REGISTERED No. 17240 STATE OF INDIANA PROFESSIONAL ENGINEER

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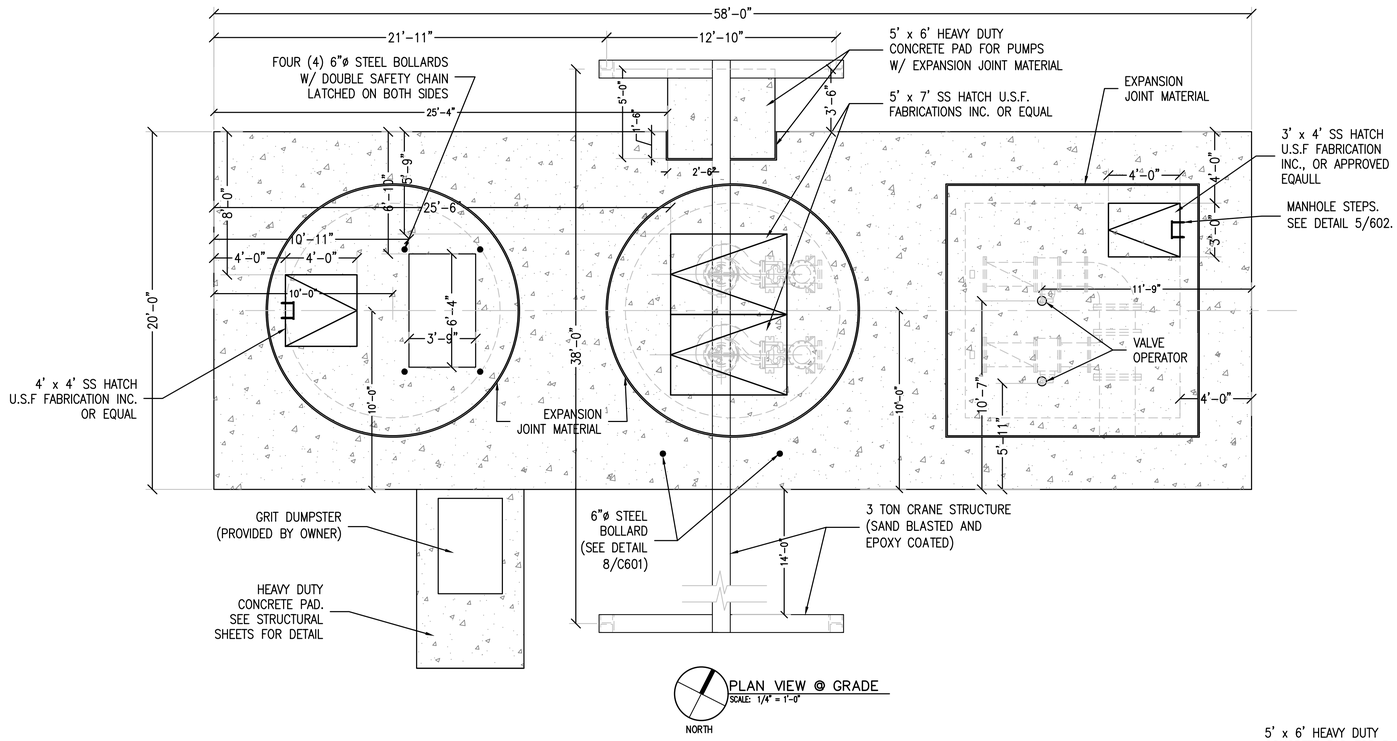
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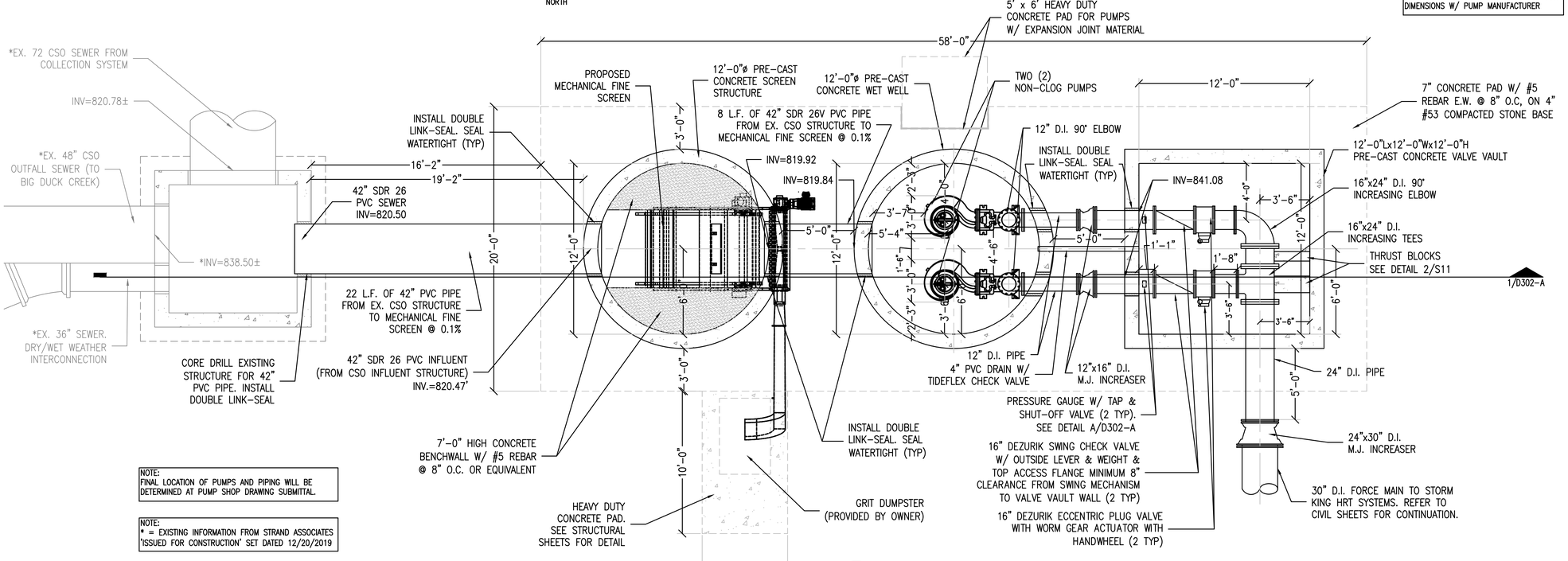
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SHEET LABEL	SHEET No.	OF:
D300-A	PROJECT No.:	77
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DRAWN BY: JLE	DATE: 9/1/26	

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PLAN VIEW @ GRADE
SCALE: 1/4" = 1'-0"
NORTH



PLAN VIEW
SCALE: 1/4" = 1'-0"
NORTH

NOTE:
FINAL LOCATION OF PUMPS AND PIPING WILL BE DETERMINED AT PUMP SHOP DRAWING SUBMITTAL.

NOTE:
* = EXISTING INFORMATION FROM STRAND ASSOCIATES 'ISSUED FOR CONSTRUCTION' SET DATED 12/20/2019

SUBMERSIBLE PUMP STATION SCHEDULE

PROJECT: ELWOOD WWTP CSO 1 IMPROVEMENTS
LOCATION: ELWOOD, IN
PUMP MANUFACTURER: GRUNDFOS
PUMP MODEL NUMBER: S2.55.A120.1470.6.70M. C.420.G.Ex.D611.Z
PUMP DISCHARGE SIZE ø: 12
DESIGN TDH (FT) 53 @ GPM 6950
SHUTOFF TDH (FT) 115 @ GPM 0
HP (RATED) 150
RPM 1181
VOLTAGE 460
PHASE 3
STATION PIPE SIZE: 16",24"
FORCE MAIN SIZE: 30",36"

PROPOSED CONDITIONS:
NO. OF PUMPS 2

SUBMERSIBLE LIFT STATION SCHEDULE

DESCRIPTION	SYMBOL	
PUMPS, PIPING, AND VALVES		
GRAVITY INFLUENT PIPE DIAMETER		42"
GRAVITY INFLUENT INV. EL.		819.84
PUMP DISCHARGE PIPE DIAMETER		12"
PUMP DISCHARGE ELBOW SIZE		12"
DISTANCE BETWEEN PUMPS		54"
PUMP CENTERLINE SPACING		54"
VALVE VAULT PLUG VALVE (2)		16"
CHECK VALVE (2)		16"
FORCE MAIN DIAMETER		30"
FORCE MAIN INCREASER SIZE		24"x30"
BYPASS PUMPING PLUG VALVE		N/A
STRUCTURES		
MECHANICAL FINE SCREEN CHANNEL SIZE (INSIDE)		12'-0"ø
MECHANICAL FINE SCREEN CHANNEL TOP OF STR EL.		851.00
MECHANICAL FINE SCREEN CHANNEL FLOOR EL.		819.25
WET WELL SIZE (INSIDE)		12'-0"ø
WET WELL TOP OF STRUCTURE EL.		851.00
WET WELL FLOOR EL.		810.00
VALVE VAULT TOP OF STRUCTURE EL.		851.00
VALVE VAULT FLOOR EL.		839.00
VALVE VAULT DIMENSIONS (INSIDE)		12'W x 12'L
FINE SCREEN, W.W. & V.V. BASE SLAB THICKNESS		24"
CHANNEL, WET WELL AND VALVE VAULT WALL THICKNESS		12"
HATCHES		
FINE SCREEN HATCH (1)		4' x 4'
WET WELL HATCH (2)		5' x 7'
VALVE VAULT HATCH (1)		3' x 4'
FLOATS AND CONTROLS		
SEE SHEET D401 FOR LEVEL CONTROL DEPTHS		

NOTE:
STRUCTURAL STEEL AND CONCRETE THICKNESS SHALL BE DETERMINED BY SUPPLIER. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS WITH SHOP DRAWINGS.

NOTE:
ALL CONCRETE SHALL BE PRECAST

NOTE:
CONTRACTOR SHALL COORDINATE WITH MECHANICAL SCREEN MANUFACTURER TO PROVIDE STAINLESS STEEL PLATING AND STRUCTURAL SUPPORTS TO COVER OPENING AROUND THE SCREEN.

NOTE:
CONTRACTOR SHALL SHALL CONFIRM HATCH DIMENSIONS W/ PUMP MANUFACTURER

REVISIONS:
1 ADD. #2-ALT. #12, JLE, 9/23/26

SHEET TITLE: WET WEATHER LIFT STATION-PRECAST ALTERNATE #12 PLAN

PROJECT TITLE: WWTP CSO 1 IMPROVEMENTS

CORNERSTONE ENGINEERING INC
Strong Team. Smart Solutions.
CONSULTANT:
2214 PLANTSIDE DRIVE
LOUISVILLE, KY 40299
(502) 493-2717 – Corporate
(317) 324-1276 – Fax

NEO ENGINEERS
CONSULTANT:
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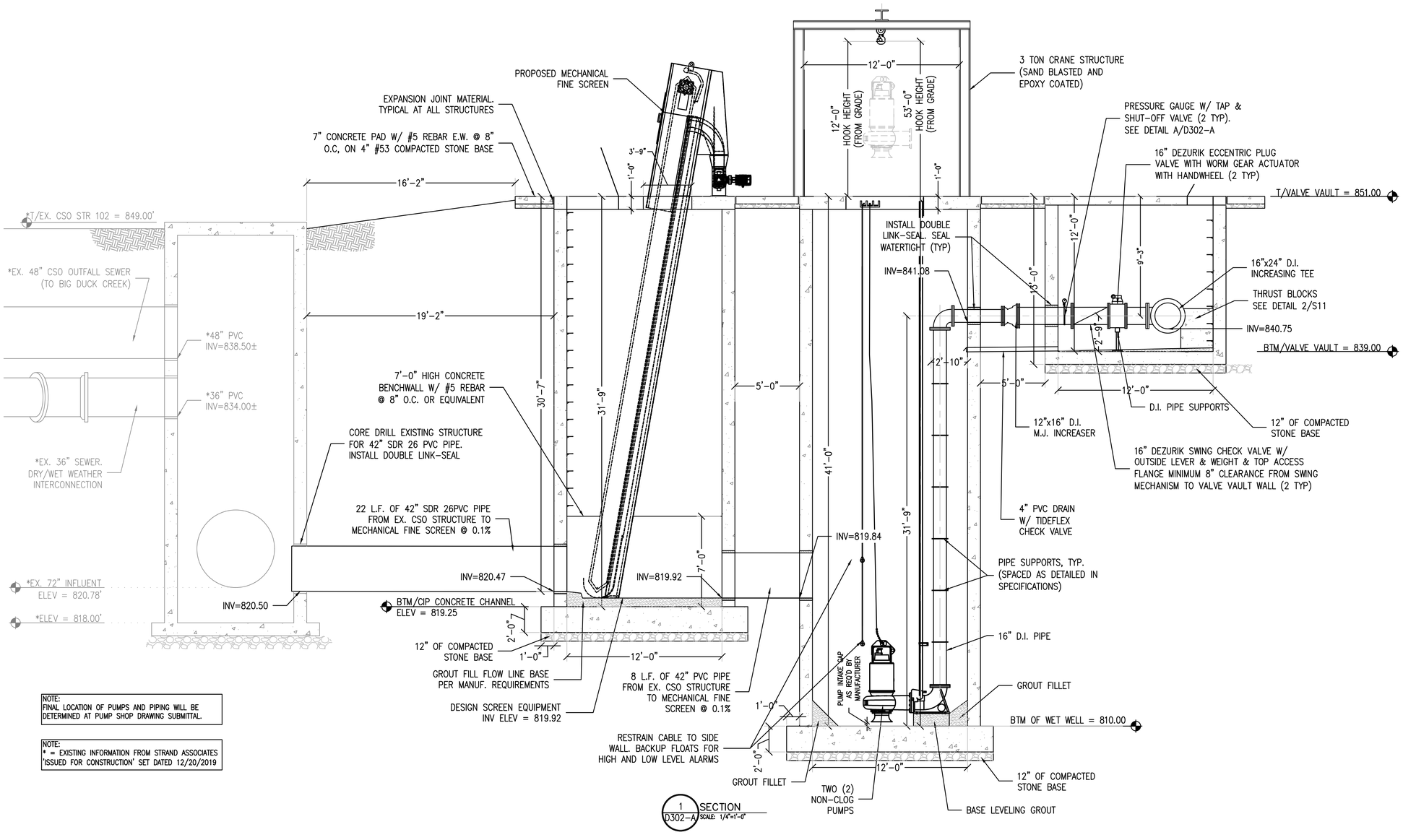
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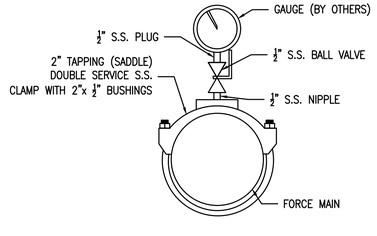
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NOTE:
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1 D302-A SECTION
SCALE: 1/4"=1'-0"



A D302-A PRESSURE GAUGE DETAIL
SCALE: NOT TO SCALE

REVISIONS:
1 ADD. #2-ALT. #12, JLE, 9/23/26

SHEET TITLE: WET WEATHER LIFT STATION-PRECAST ALTERNATE #12 SECTION

PROJECT TITLE: WWTP CSO 1 IMPROVEMENTS

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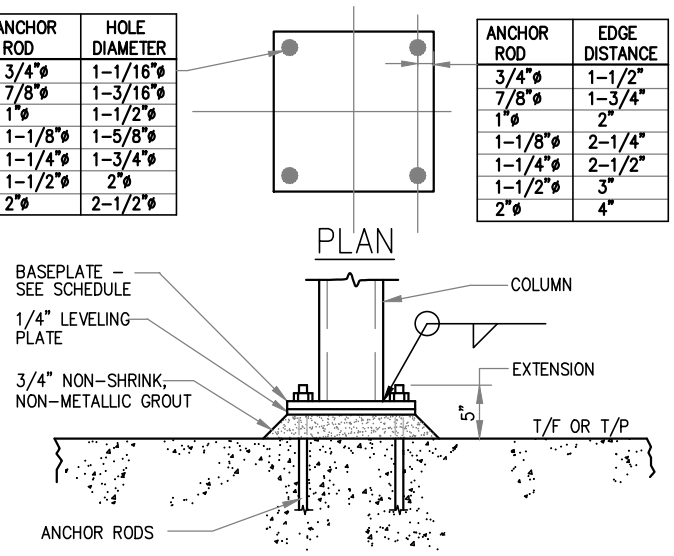
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D302-A	PROJECT No.:	77
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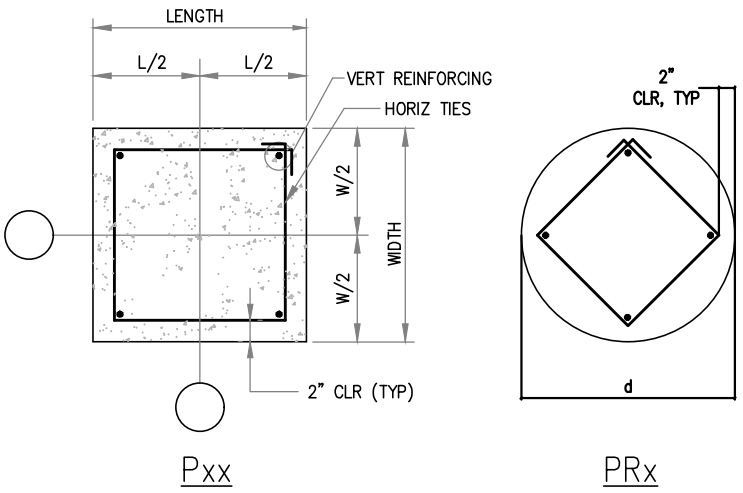
ANCHOR ROD	HOLE DIAMETER
3/4"ø	1-1/16"ø
7/8"ø	1-3/16"ø
1"ø	1-1/2"ø
1-1/8"ø	1-5/8"ø
1-1/4"ø	1-3/4"ø
1-1/2"ø	2"ø
2"ø	2-1/2"ø

ANCHOR ROD	EDGE DISTANCE
3/4"ø	1-1/2"
7/8"ø	1-3/4"
1"ø	2"
1-1/8"ø	2-1/4"
1-1/4"ø	2-1/2"
1-1/2"ø	3"
2"ø	4"



TYPICAL COLUMN BASE DETAIL

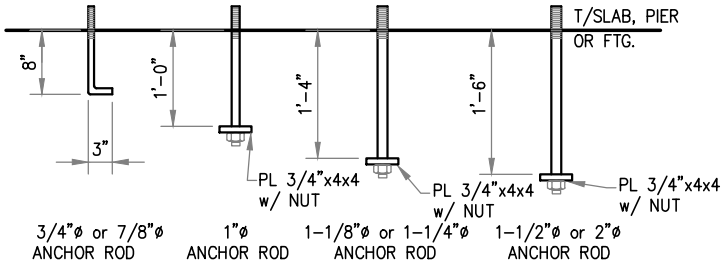
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TYPICAL PIER PLAN

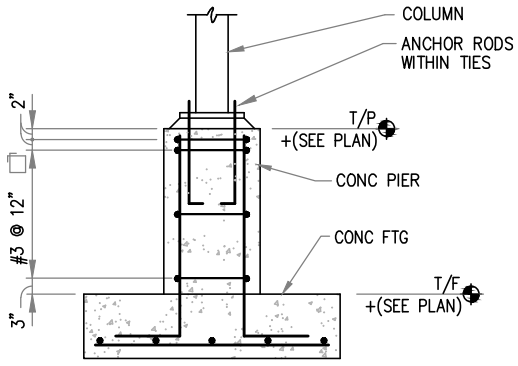
SCALE: NOT TO SCALE

NOTES:
1. See schedule for required anchor rods.
2. Provide nuts and washers for all anchor rods.



TYPICAL ANCHOR ROD DETAIL

SCALE: NOT TO SCALE



TYPICAL PIER ELEVATION

SCALE: NOT TO SCALE

TYPICAL PIER DETAILS FOR CRANE FOUNDATION

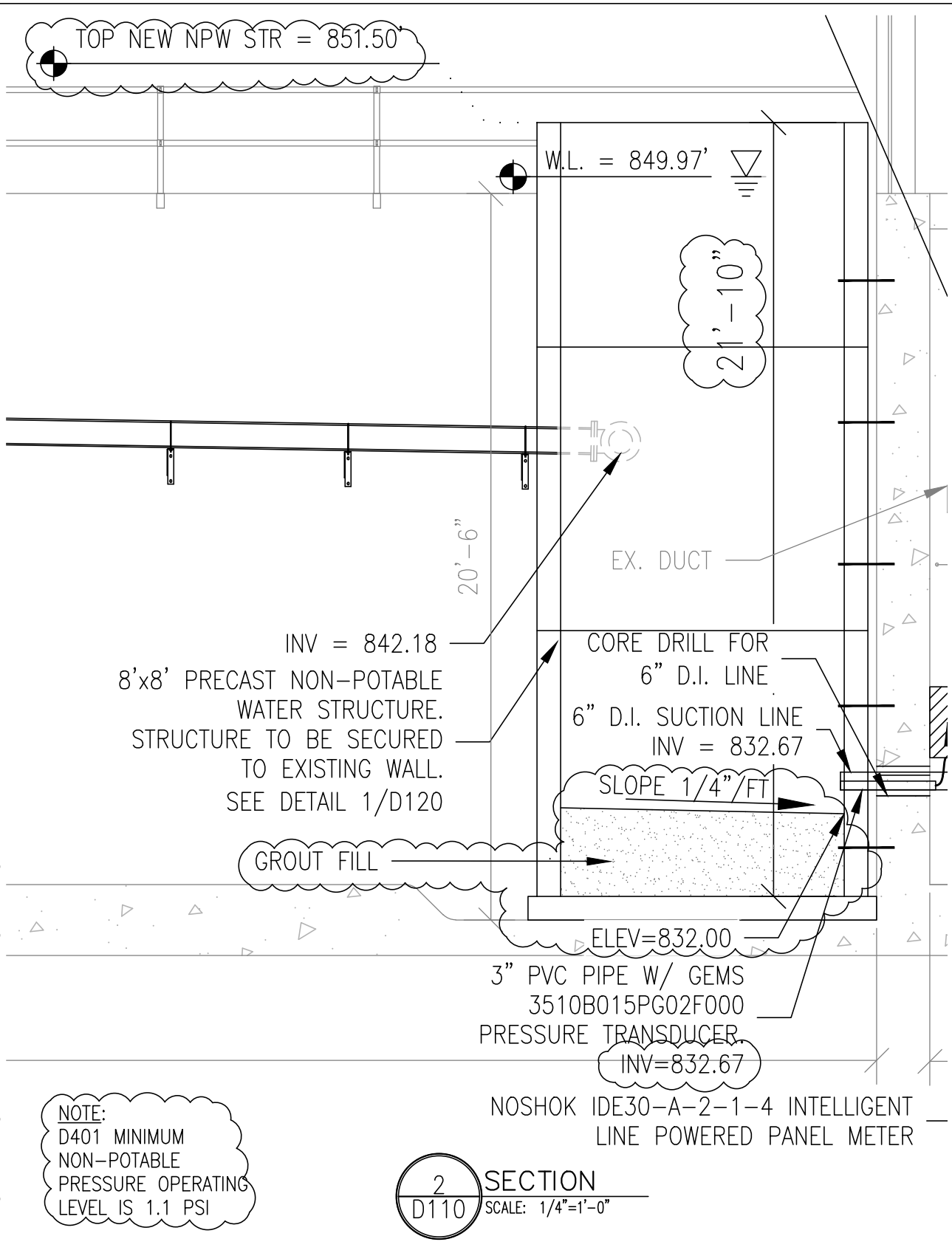
REFERENCE SHEETS: D301-A, D302-A
DESCRIPTION: PIER AND COLUMN DETAILS FOR 3 TON CRANE STRUCTURE (ALTERNATE #12)

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(317) 324-1276 - Corporate ● (317) 324-1276 -Fax

PROJECT: ELWOOD CSO 1 IMPROVEMENTS
DRAWN BY: JLE CHECKD BY:
DATE: 9/23/26 SCALE: N.T.S.

SHEET NO. D303-A

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NOTE:
D401 MINIMUM NON-POTABLE PRESSURE OPERATING LEVEL IS 1.1 PSI

2 / D110 SECTION
SCALE: 1/4"=1'-0"

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SHEET REFERENCE: D110
DRAWN BY: JLE CHECKD BY: CLW
DATE: 9/17/26 SCALE: 1/4"=1'-0"
ADDENDUM NO. AD-001

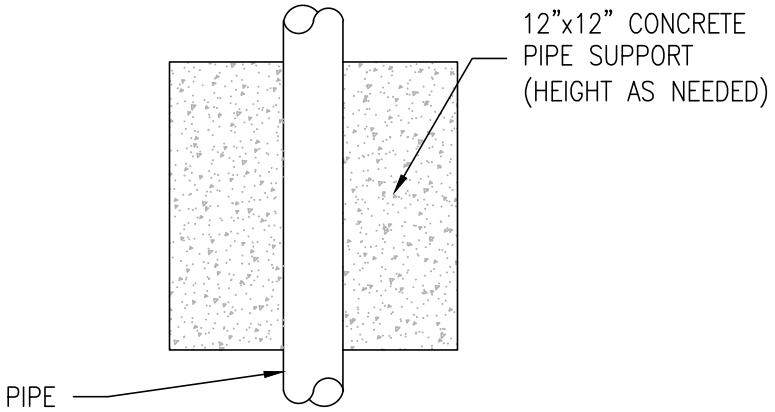
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UNDERFLOW PIPE IN GEO-FOAM SPACE

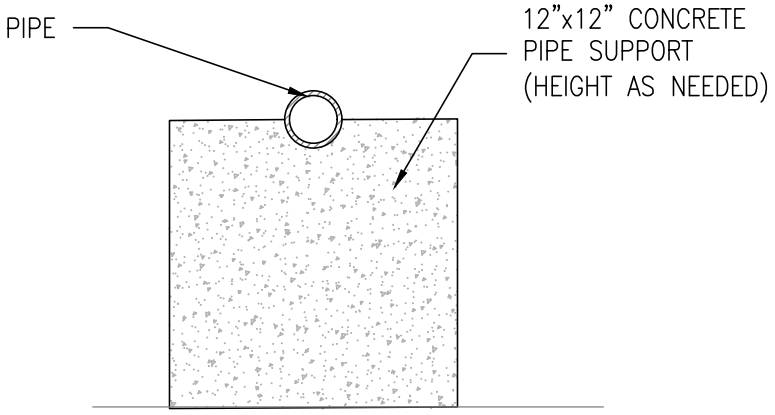
SHEETS D109 & D111:
8" D.I. PIPE – ONE (1) CONCRETE SUPPORT, CENTERED.

3" SCH 80 PVC – THREE (3) CONCRETE SUPPORTS, EQUALLY SPACED.

2" SCH 80 PVC – THREE (3) CONCRETE SUPPORTS, EQUALLY SPACED.



PLAN



SECTION

6 / D120 CONCRETE PIPE SUPPORT DETAIL
SCALE: 1-1/2"=1'-0"

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PROJECT: ELWOOD CSO 1 IMPROVEMENTS
SHEET REFERENCE: D109, D111
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ADDENDUM NO. AD-002

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