



WHITMAN, REQUARDT AND ASSOCIATES, LLP

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CITY OF CUMBERLAND, MARYLAND  
CUMBERLAND WASTEWATER TREATMENT PLANT  
ENHANCED NUTRIENT REMOVAL (ENR) UPGRADE

CITY PROJECT NO. 15-03-WWTP

ADDENDUM NO. 2

December 29, 2008

This addendum contains revisions, clarifications, and information pertinent to the bid documents of the referenced project and shall supplement, amend and become part of the procurement documents for the title project and contract. All bids shall be based on this Addendum, in accordance with the bid documents.

This addendum consists of seven (7) pages and Attachments 1 through 3.

Acknowledgment of this addendum shall be made by initialing the appropriate place on page 00410-1 of the Bid Form, including addendum number and date. Failure to acknowledge addendum may subject the bidder to disqualification.

**The bid due date has been changed to January 21, 2009 at 2:00 pm local time, as changed per Addendum No. 1.**

Except as noted herein, all terms and conditions of the document referenced, as heretofore changed, remain unchanged and in full force and effect.

**I. REVISIONS TO THE CONTRACT SPECIFICATIONS**

1. Section 00020, NOTICE TO BIDDERS, second paragraph: DELETE “and design and construction of a sludge heat drying facility via a contract assignment”.
2. Section 00410, BID FORM, Article 5.0 Bid Schedule, Item A-3: DELETE Item A-3 in its entirety.
3. Section 00410, BID FORM, Article 5.0 Bid Schedule, Item A-4: DELETE Item A-4 in its entirety.
4. Section 00520, AGREEMENT: DELETE “and design and construction of a sludge heat drying facility via a contract assignment”.
5. Section 00521, ASSIGNMENT OF AGREEMENT- HEAT DRYING FACILITY: DELETE specification section in its entirety.
6. Section 00800, SUPPLEMENTAL CONDITIONS: ADD the following before paragraph SC-17.05: “SC-14.02 C.1 Amend this paragraph by removing “ten days” and replacing with “sixty days””.

7. Section 00800, SUPPLEMENTAL CONDITIONS: ADD the following before paragraph SC-17.05: “SC-14.07 C.1 Amend this paragraph by removing “Thirty days” and replacing with “Sixty days””.
8. Section 01130, MEASUREMENT AND PAYMENT, Paragraph 1.04.C: DELETE paragraph in its entirety.
9. Section 01130, MEASUREMENT AND PAYMENT, Paragraph 1.04.D: DELETE paragraph in its entirety.
10. Section 11010, HEAT DRYING FACILITY: DELETE specification section in its entirety.
11. Section 13125, METAL BUILDING SYSTEMS, Paragraph 1.09.B: DELETE paragraph in its entirety.
12. Section 13220, DENITRIFICATION FILTER SYSTEM, Paragraph 2.01.G.3: DELETE “painted white”. ADD the following: “supplied with exterior protective prime coat by manufacturer and finished per specification 09900”.
13. Section 13320, METERS AND INSTRUMENTATION, Paragraph 2.10: ADD the following to the end of paragraph 2.10:

“Provide Dissolved Oxygen Transmitter compatible with Dissolved Oxygen Sensor provided. Transmitter shall include measurement and alarm generation capability and shall be suitable for field mounting with NEMA 4 housing. Transmitter shall have a single 0/4-20 mA Output and operate on 120 VAC power. Resolution shall be 0.01 mg/l with a maximum repeatability of 0.2% of measuring range. The temperature compensation range shall be 0-50 Deg. C. Dissolved Oxygen Transmitter shall be Liquisys M COM253 by Endress & Hauser or equal.”
14. Section 15060, PIPES, VALVES AND FITTINGS, Paragraph 2.14.A.6: DELETE the sentence “All hardware shall be galvanized.” and REPLACE with “All hardware shall be hot dip galvanized.”
15. Appendix C: DELETE appendix in its entirety.

## **II. REVISIONS TO THE CONTRACT DRAWINGS**

1. Drawing Sheet C00.01: ADD “by Others” under the Heat Drying Facility label.
2. Drawing Sheet C00.02: ADD “by Others” under the Heat Drying Facility label.
3. Drawing Sheet C00.03: ADD “by Others” under the Heat Drying Facility label.
4. Drawing Sheet C00.01: DELETE general note 12 and REPLACE with the following “The Contractor is hereby notified that the Heat Drying Facility will be constructed by a contractor working on site at the same time. In addition to the area shown, the Heat Drying Facility construction area may also include the Existing Sludge Storage Building, the Existing Sludge Loading Pad, and adjacent areas. Refer to the contract specifications for construction coordination requirements regarding other Contractors.”
5. Drawing Sheet C00.03: ADD the following note below the note in the lower right hand corner starting with the words “EX. 54” EFFLUENT PIPING....”:

“An existing dewatering system is located between the chlorine tanks and existing clarifier within the limits of disturbance of the Parshall Flume and piping. This system shall be temporarily abandoned during construction and replaced after the Parshall Flume piping shown in the area are installed. Based upon record drawings, this will require the abandonment and relocation of the following items:

1. 50 feet of 2-1/2” schedule PVC header pipe
2. 100 feet of 4” schedule PVC header pipe
3. 8-well points about 20 feet deep (bottom noted elev. 580 feet)
4. 1-observation well (abandonment only)

Scheduling and placement of relocated facilities are to be coordinated with and approved by the Owner and Engineer. The quantities indicated are based on items shown on record drawings.”

6. Drawing Sheet M01.07: ADD Spray Water Pump Detail / Plan View as shown on the attached sketch M01.07A.
7. Drawing Sheet M01.07: ADD Spray Water Pump Detail / Section as shown on the attached sketch M01.07B.
8. Drawing Sheet M01.07: ADD Spray Water Discharge Header Detail / Upper Level Plan as shown on the attached sketch M01.07C.
9. Drawing Sheet E03.09: ADD the following in the Drawing Notes:  
“Note 8: Mount Fixture 8’-0” AFF.  
Note 9: Mount Fixture 10’-0” AFF.”
10. Drawing Sheet I00.02: MODIFY drawing I00.02 to show AIT-324 going to AP2&ICP.
11. Drawing Sheet I00.03: MODIFY drawing I00.03 to show AIT-325 going to AP2&ICP
12. Drawing Sheet I00.04: MODIFY drawing I00.04 to show AIT-326 going to AP2&ICP

### **III. BIDDER QUESTIONS AND RESPONSES**

1. Does the monorail (hoist beam) have to be supplied by the hoist manufacturer?

*Answer: The monorail (hoist beam), trolley, hoist, and all appurtenances shall be provided as a complete unit by the hoist manufacturer as specified in Section 14620 Paragraph 2.01.A.*

2. Can the terms and conditions of the contract assignment of the Heat Drying Facility be qualified by this bidder?

*Answer: Refer to revisions per this addendum whereby Bid Items A-3 and A-4 are deleted from the contract.*

3. This is in regard to the minority requirement goal. Under Article 5 – Basis of Bid, Part A, the contract includes predetermined prices for A-2, Furnish Denitrification Filter System and A-3, Design, Furnish, and Install Heat Drying Facility, all complete and in place. Is the minority goal

a percentage of the remaining costs? As these are predetermined and represents \$12,470,000, it will be extremely difficult to meet an amount if it is inclusive of this cost.

*Answer: The minority goal is a percentage of the remaining costs.*

4. Specification Section 11000, Owner-Furnished Products/Equipment indicates the contractor to remove and modify 27 existing mixers, models 4640 and 4630 (including spares). Specification Section 11385, Submersible Mixers indicates a different total. Model 4640 = 15 + 3 spares and Model 4630 = 12 + 3 spares for a total of 33 mixers. Please indicate which quantity is correct.

*Answer: There are fifteen (15) Flygt Model 4640 submersible mixers and twelve (12) existing Flygt Model 4630 submersible mixers for a total of twenty-seven (27) submersible mixers.*

*Note that the totals indicated in Section 11385, paragraphs 2.01 A and B state the totals "include" the three spares of each type.*

5. Refer to the spray water system that is identified in contract drawing M01.07. The discharge for this system is only shown in the schematic view and there doesn't appear to be a lower plan view that shows the actual routing of this line. Without this, it is impossible to assess the actual length of the line that has to be removed and re-installed.

*Answer: See sketches M01.07A and M01.07.B, added via Addendum No. 2 for detailed layout for the pumps and associated piping and valves.*

6. As dictated by contract documents, the contractor has been required to go with Severn-Trent for a pre-determined amount. What happens if there is a cost change with this specific contract or if there is a site/design change? Will the owner incur such costs directly?

*Answer: As noted in Section 13220, paragraph 1.02.F, any additional costs, in addition to the cost listed in Bid Item A-2, shall be included in Bid Item A-1 on the Bid Form. Any changes in the work, as defined elsewhere in the contract documents, will be addressed in accordance with the General Conditions of the Contract (Section 00700).*

*Note that the Contractor shall retain Severn-Trent Services as the supplier for the denitrification filter system, and Severn-Trent Services will become a subcontractor to the Contractor. The Owner does not have a contractual agreement with Severn-Trent Services, and therefore, no costs will be directly incurred by the Owner.*

7. Regarding the contractual terms and conditions negotiated between WR&A and Severn-Trent: We assume that all of these conditions will transfer to the successful bidder of this project (15-03-WWTP) and that the City of Cumberland accepts these terms with regard to this portion of the project. For example, if Severn-Trent has negotiated payment terms that are not in accordance with the payment terms of the general contract, the City will accept these terms with regard to the scope of supply under this assignment and pay the contractor accordingly.

*Answer: Refer to Section Section 13220, paragraph 1.02.D which lists the order of precedence in the event of a conflict between the contract documents and the Appendix B documents.*

*As noted in the response to question 8, Section 13220, paragraph 1.02.F states that any additional costs, in addition to the cost listed in Bid Item A-2, shall be included in Bid Item A-1 on the Bid Form. All information regarding Severn Trent's terms and conditions is included in Appendix B of the Contract Documents for the Bidders' information. Bidders shall carefully review this information and include all additional costs, including any costs associated with differing terms and conditions between Severn Trent and the general contract, in Bid Item A-1.*

8. In division 13125 I see no requirement for walls on this building. Is it an open all structure? If so, the weather tightness warranty requested by 13125, part 1.09 B doesn't carry much value for the additional cost. If the building is enclosed, please clarify the type of wall you require (i.e. Fire resistance, R value, etc).

*Answer: The metal building does not have any walls. The specification's requirement for a weathertightness warranty has been deleted from the specifications per this addendum. However, omission of a written warranty on the weathertightness of the roof shall not diminish the contractor's responsibility to provide a weathertight roof assembly, nor shall it negate the contractor's responsibility for the general warranty from the date of completion as indicated in Division 01 of the Specifications.*

9. Does this job have prevailing wage rates? If so, what are the rates?

*Answer: Prevailing wage rates do not apply to this project.*

10. Can Star Builders be used as a Pre-Engineered Building Supplier and Installer?

*Answer: The architect has no familiarity with the firm named. The specifications allow that there may be other manufacturers and installers of pre-engineered metal buildings that meet the requirements of the specification. However, there cannot be any "pre-approval" of a manufacturer, supplier, or installer without more information than that provided.*

11. Drawing C00.02 indicates four individual concrete pads around the perimeter of the new structure that appear to be sidewalk sections. Please confirm that these four pads (three 4'x11' and one 5'x4') should be poured in accordance with detail 3 on drawing C00.06

*Answer: The pads indicated shall be constructed per detail 3 on drawing C00.06.*

12. Drawing E03.09 includes indicators labeled "8" and "9" but the drawing notes on that page stop at "7". What do indicators "8" and "9" refer to?

*Answer: Note 8 indicates "Mount fixture 8'-0" AFF". Note 9 indicates "Mount Fixture 10'-0" AFF." See revisions to drawing sheet E03.09 per Addendum No. 2.*

13. Is the grounding system required only for the fence surrounding the electrical equipment pad outside of the electrical room, or is it required on the fence along the dike as well? If it is required for the fence along the dike, will the Contractor be required to install the grounding on the existing fence as well?

*Answer: Grounding System shown shall be required for fence surrounding the power transformer outside the electrical room as detailed and specified as well as the perimeter fence along the relocated dike per Specification Section 02800. Installation of grounding for existing perimeter fence shall not be required.*

14. During the site visit, vertical section of large diameter corrugated metal pipe were seen protruding from the ground in the area of the proposed parshall flume. What are these pipes for? Will the Contractor be required to remove them prior to installation of the parshall flume and associated underground utilities? To what extent will the Contractor be required to interact with these pipe sections?

*Answer: The exposed pipe is part of an observation well. This well is for observation of water levels of a dewatering system installed around 1990 to be used when chlorine contact tanks are emptied. Parts of this existing dewatering system are between the chlorine tanks and existing clarifier within the limits of disturbance of the parshall flume and piping. This system shall be temporarily abandoned during construction and replaced after the parshall flume and items noted on drawing C00.03 in the area are installed so as not to conflict with the newly installed facilities. Refer to notes added to civil sheets per this addendum.*

15. Are the Methanol Tanks to be painted or will they be prefinished?

*Answer: The methanol tanks are to be supplied with exterior protective prime coat by manufacturer and finished per Specification 09900, Paragraph 2.03.B.*

16. Reference drawing sheet 75, 76, and 79 Reactor Spray Water Pump – On sheet 79, please furnish a full piping arrangement – plan and section/elevation for spray water pump suction and discharge tie-in to existing line.

*Answer: See sketches M01.07A, M01.0.B and M01.07C, added via Addendum No. 2 for detailed layout for the pumps and associated piping and valves.*

17. Reference drawing sheet 75 and 76 – Are 4” spray headers to be replaced and relocated as per notes on these drawings 75 and 76? Drawing 79 schematically shows them to be existing? If replacement is required, what is piping spec? Which is correct?

*Answer: Spray headers shall be replaced, not relocated. Refer to Section 15060, paragraph 2.01.A, second and ninth groups for specifications.*

*New spray water piping will include coverage for both sides of each pass of each reactor, the entire length of the reactor. Refer to the structural drawings for the length and width of the reactors. The transition shown on the schematic on M01.07 from 4" to 3" piping occurs approximately half way along the length of the reactors.*

*Refer to sketch M01.07C for the new 6" piping in the lower level of the operations building*

18. On piping schedule in Section 15060 and drawing no. 98 (6) 20” discharge to lift chamber – is this pipe considered “Sewage” or “Filter Influent”? Which pipe spec applies, the first group or second group?

*Answer: This pipe is specified under the second group.*

19. On drawing no. 91, on the 42” line from lift chamber to influent channel, which specification applies, first group or second group (in Section 15060)?

*Answer: This pipe is specified under the second group.*

20. Specification Section 15060, paragraph 2.14, A, 6 states that all hardware shall be galvanized. Please clarify whether the hardware is to be hot dip galvanized or plated

*Answer: Hardware being referred to is to be hot dip galvanized.*

21. AIT-324. This device is listed in the I/O table as reporting to AP2&ICP but shown on drawing I00.02 as reporting to ASPIC. Please clarify.

*Answer: AIT-324 should be wired to AP2&ICP located adjacent to AP&ICP. Refer to changes to drawing I00.02, per this addendum.*

22. AIT-325. This device is listed in the I/O table as reporting to AP2&ICP but shown on drawing I00.03 as reporting to AP&ICP. Please clarify.

*Answer: AIT-325 should be wired to AP2&ICP located adjacent to AP&ICP. Refer to changes to drawing I00.03, per this addendum.*

23. AIT-326. This device is listed in the I/O table as reporting to AP2&ICP but shown on drawing I00.04 as reporting to AP&ICP. Please clarify.

*Answer: AIT-326 should be wired to AP2&ICP located adjacent to AP&ICP. Refer to changes to drawing I00.04, per this addendum.*

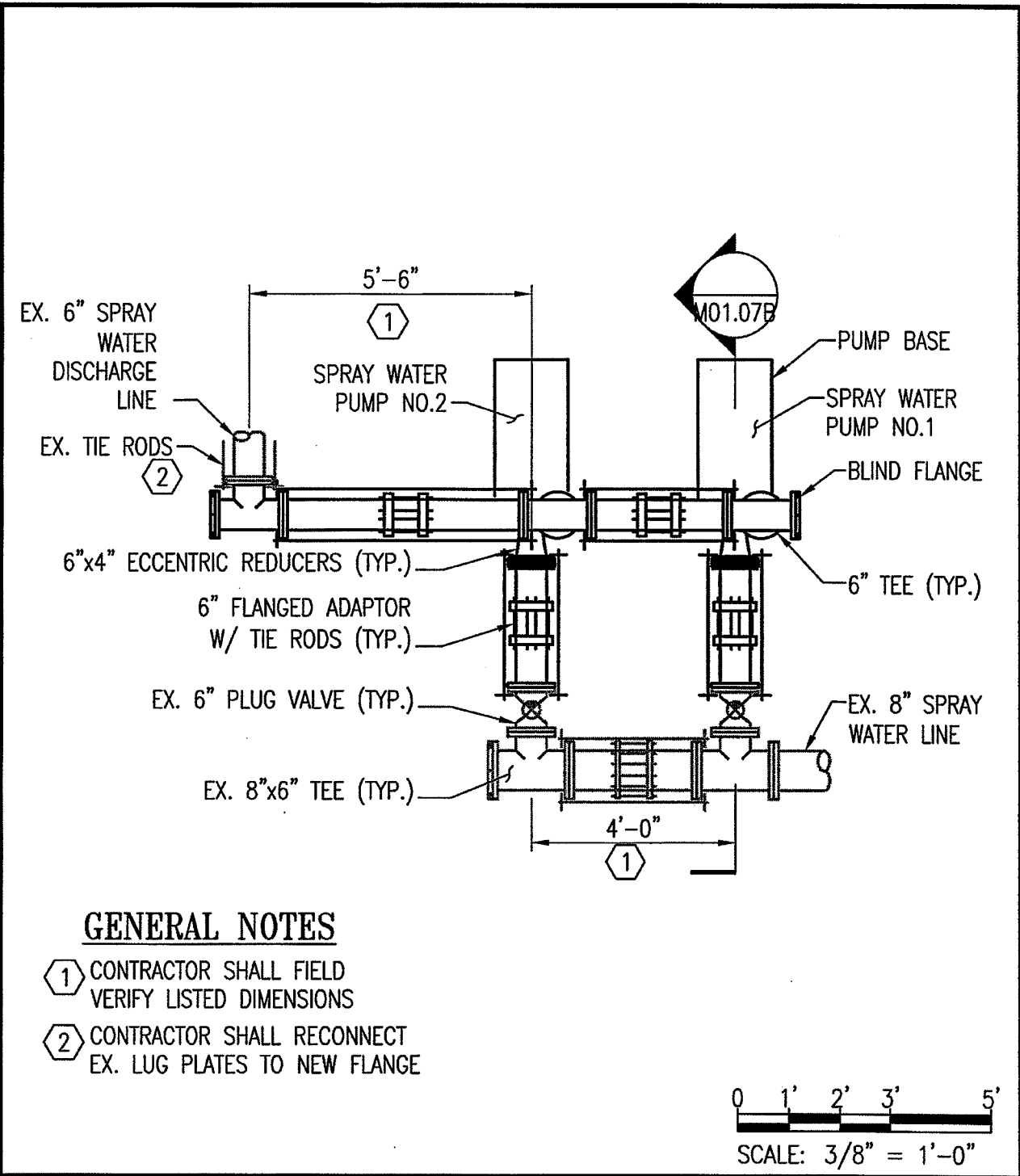
24. Dissolved Oxygen Sensors. Specification 13320.2.10 states that “sensors” are to be provided. The part number provided is of the sensor only. Notes on the drawings indicate that the analyzer is to be replaced. Usually the term “analyzer” indicates a sensor and transmitter. Please clarify if only the sensor is to be replaced or if the scope of work also includes replacement of the analyzer.


*Answer: All DO Instruments shown on the drawings shall include sensor and transmitter. Three existing instruments shall be removed and replaced. Refer to changes to specification section 13320, per this addendum.*

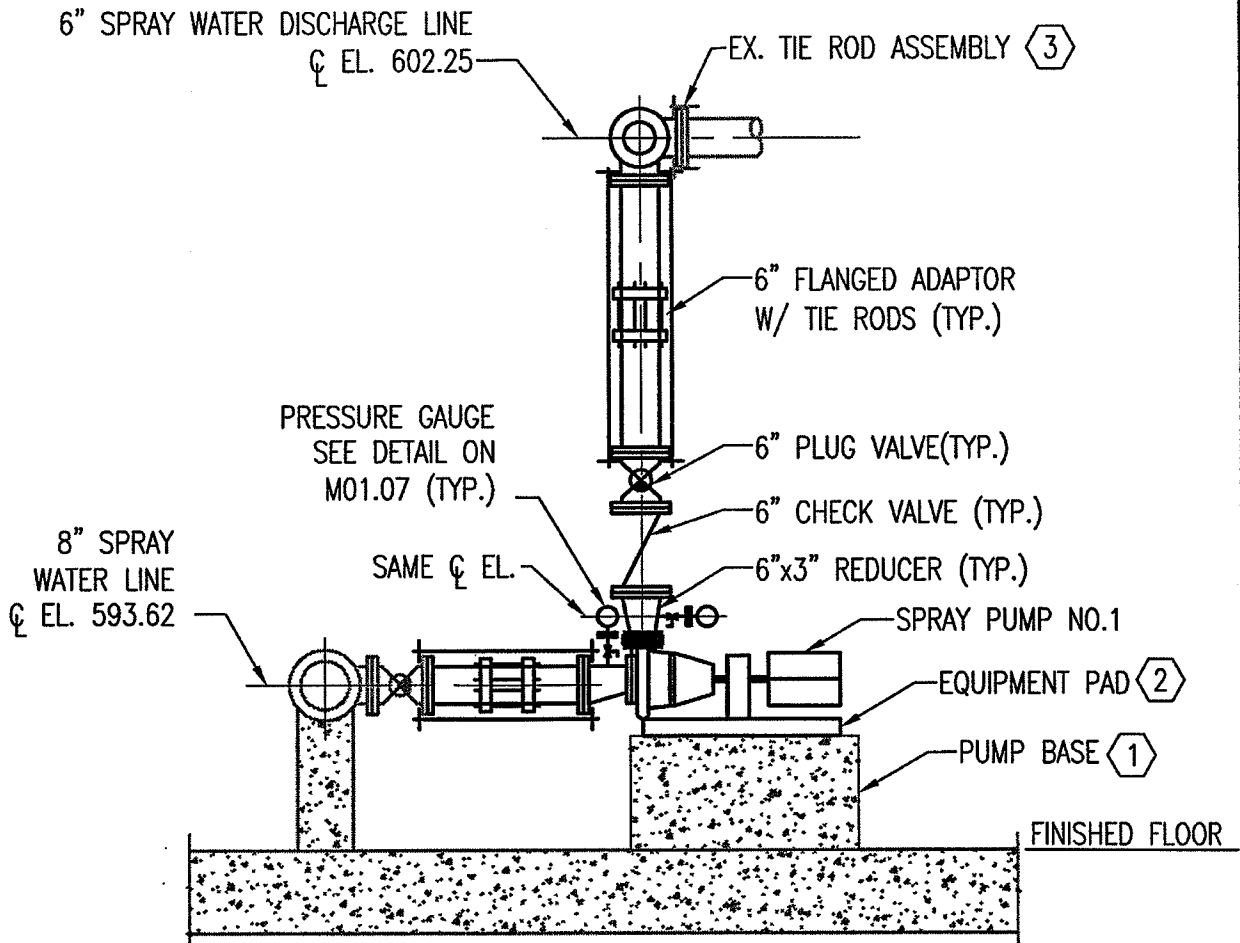
## **Attachments**

1. Sketch M01.07A
2. Sketch M01.07.B
3. Sketch M01.07.C

END of Addendum No. 2

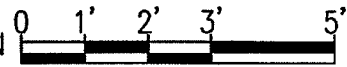


 <p><b>WHITMAN, REQUARDT &amp; ASSOCIATES, LLP</b> 801 South Caroline Street, Baltimore, Maryland 21231</p>	<p><b>CITY OF CUMBERLAND MARYLAND</b></p>	<p><b>WASTEWATER TREATMENT PLANT ENHANCED NUTRIENT REMOVAL (ENR) UPGRADE</b></p>	<p>Drawing No. M01.07A</p>
		<p><b>SPRAY WATER PUMP DETAIL PLAN VIEW</b></p>	<p>Des: DRN</p>
<p>Scale: 3/8" = 1'-0"</p>	<p>Date: 12/19/08</p>		<p>Drawn: LAQ</p>
			<p>Check: DRN</p>



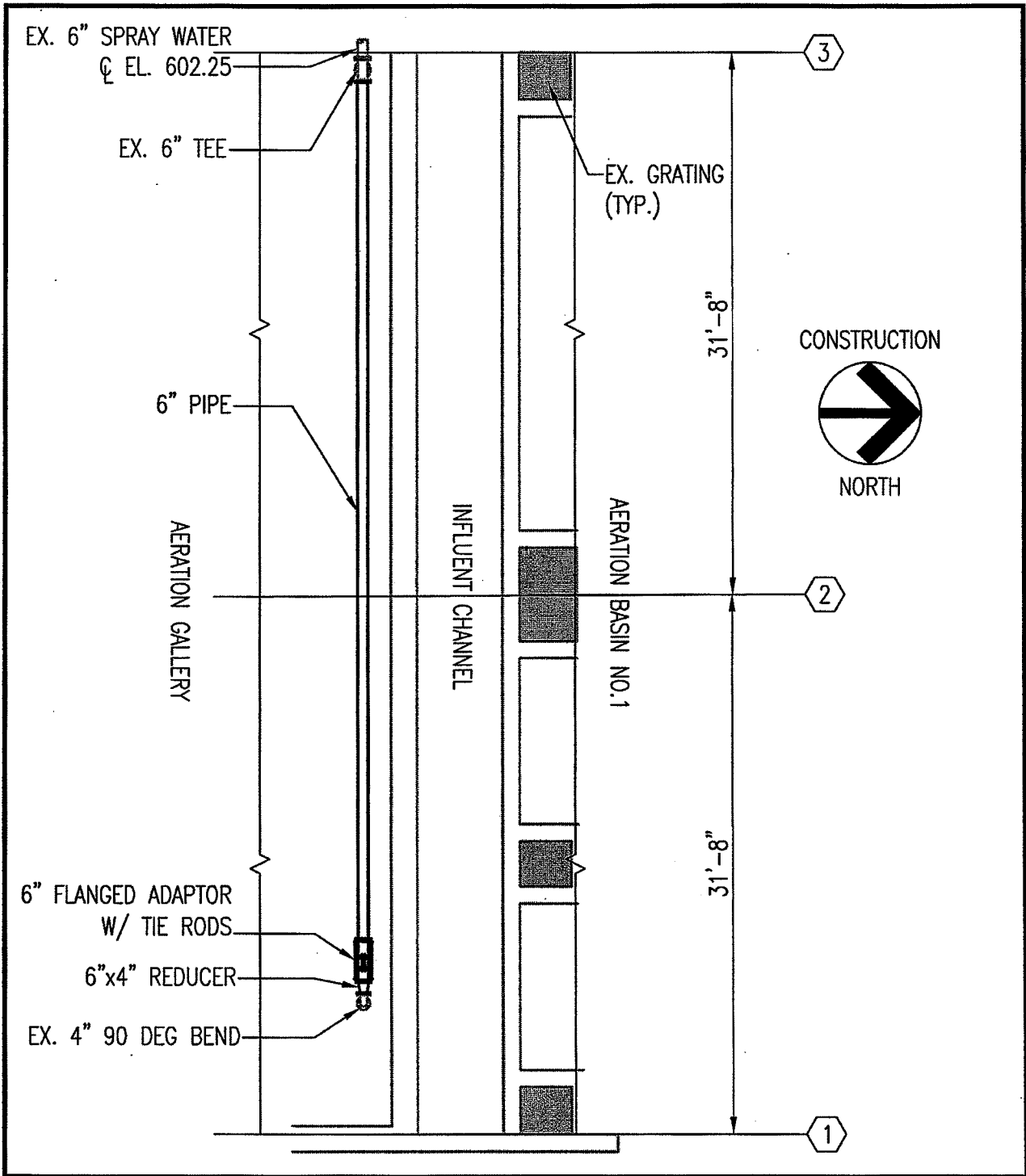
**GENERAL NOTES**


- ① SIZE NEW PUMP BASE TO SUIT NEW REACTOR SPRAY PUMPS  
SEE STRUCTURAL DRAWINGS FOR EQUIPMENT PAD DETAILS
- ② PUMP BASE ANCHOR BOLTS INTO EQUIPMENT PAD PER  
MANUFACTURER'S RECOMMENDATIONS. SEE STRUCTURAL  
SPECIFICATIONS FOR ANCHOR BOLT REQUIREMENTS AND PENTRATION
- ③ CONTRACTOR SHALL RECONNECT EX. LUG PLATES TO NEW FLANGE



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

<p>WHITMAN, REQUARDT &amp; ASSOCIATES, LLP 801 South Caroline Street, Baltimore, Maryland 21231</p>	<p>CITY OF CUMBERLAND MARYLAND</p>	<p>WASTEWATER TREATMENT PLANT ENHANCED NUTRIENT REMOVAL (ENR) UPGRADE</p>	<p>Drawing No. M01.07B</p>
		<p>SPRAY WATER PUMP DETAIL SECTION</p>	<p>Des: DRN</p>
<p>Scale: 3/8" = 1'-0"</p>	<p>Date: 12/19/08</p>		<p>Drawn: LAQ</p>
			<p>Check: DRN</p>



 <b>WHITMAN, REQUARDT &amp; ASSOCIATES, LLP</b> <small>801 South Caroline Street, Baltimore, Maryland 21231</small>	<b>CITY OF CUMBERLAND MARYLAND</b>	<b>WASTEWATER TREATMENT PLANT ENHANCED NUTRIENT REMOVAL (ENR) UPGRADE</b>	<b>Drawing No. M01.07C</b>
		<b>SPRAY WATER DISCHARGE HEADER DETAIL UPPER LEVEL PLAN</b>	<b>Des: DRN</b>
<b>Scale: 1/8" = 1'-0"</b>	<b>Date: 12/22/08</b>		<b>Drawn: LAQ</b>
			<b>Check: DRN</b>