

**JEFFESON COUNTY
STEUBENVILLE, OHIO
SMITHFIELD WWTP AND PUMP STATIONS REHABILITATION**

**Addendum 1
April 8, 2022**

To: Prospective Bidders

From: Arcadis U.S., Inc.
6041 Wallace Road Extension
Wexford, PA 15090

Owner: Jefferson County
301 Market Street
Steubenville, OH 43952

This Addendum is part of the Bidding Documents and the Contract Documents and modifies the original Bidding Documents dated **February 2022**, as indicated below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification for award of the associated Contract.

This Addendum consists of three pages plus attachments as listed.

CHANGES TO INTRODUCTORY INFORMATION

- 1.01 Section 00 01 10, Table of Contents: Delete the following:
- | | | |
|----------|-------------------|------------|
| 26 32 13 | Engine Generators | 26 32 13-1 |
|----------|-------------------|------------|

CHANGES TO BIDDING REQUIREMENTS

- 1.02 **Bid Opening is changed to 9:45 AM, Thursday, April 21, 2022.**

CHANGES TO SPECIFICATIONS

- 1.03 Section 26 05 23, Instrumentation and Communication Cables:
- a. Page 3, Paragraph 2.1.F. Add the following paragraphs:
 - F. Horizontal Unshielded Twisted Pair (UTP) Cables:
 1. Horizontal cabling is cabling between and including the telecommunications outlet/connector and patch panel or termination block.
 2. Manufacturers: Provide products of one of the following:
 - a. Bertek.
 - b. Belden.
 - c. Mohawk
 - d. Or equal.

3. Cables shall consist of no. 24 AWG, thermoplastic-insulated, solid conductors formed into four individually-twisted pairs and enclosed by thermoplastic jacket.
4. Comply with ANSI/TIA/EIA-568, Part 10.2.
5. Riser-rated where installed in conduit. Other installations shall be plenum-rated.
6. Rated for Category 6 use.

b. Page 3, Paragraph 2.1.G. Add the following paragraphs:

G. Horizontal Unshielded Twisted Pair (UTP) Cables:

1. Horizontal cabling is cabling between and including the telecommunications outlet/connector and patch panel or termination block.
2. Manufacturers: Provide products of one of the following:
 - a. Bertek.
 - b. Belden.
 - c. Mohawk
 - d. Or equal.
3. Cables shall consist of no. 24 AWG, thermoplastic-insulated, solid conductors formed into four individually-twisted pairs and enclosed by thermoplastic jacket.
4. Comply with ANSI/TIA/EIA-568, Part 10.2.
5. Riser-rated where installed in conduit. Other installations shall be plenum-rated.
6. Rated for Category 6 use.

1.04 Section 26 32 13, Engine Generators:

Delete this Section in its entirety.

1.05 Section 43 21 39.13, Submersible End Suction Pumps:

- a. Page 10, Paragraph 2.4.A.1.c.4.c, Delete the paragraph in its entirety and replace with the following:
 - c. When the HAND-OFF-AUTO selector switch located at the Pump Station Control Panel is in the AUTO position, the pump shall run based on the level as follows:
 - i. Each of the pumps shall be designated as LEAD or LAG. Designations shall be automatically rotated to distribute operation evenly among the pumps.
 - ii. The pump operation shall be based on pump station level as follows:
 1. LS1 – LEAD and LAG pumps OFF.
 2. LS 2 – LEAD pump ON.
 3. LS 3 –LAG pump ON.
 4. LSH– High Level Alarm.
 - iii. If the LEAD pump fails, the LAG pump shall start automatically, and an alarm shall be indicated at the Plant HMI.
- b. Page 11, Paragraph 2.4.A.3., Delete the paragraph in its entirety. Renumber subsequent paragraphs accordingly to reflect the deletion of this paragraph. Paragraph 2.4.A.4 will then become 2.4.A.3.

1.06 Section 46 51 13, Floating Aerators:

- a. Page 5, Paragraph 2.2.B.12, Add the following paragraph: Provide motor space heater.
- b. Page 10, Paragraph 2.4.1.c.14, Add the following paragraph: Provide CPT, fuses, and contacts as required to energize the motor space heater. Motor space heater shall operate when the motor is turned off following a short time delay to allow the motor to cool slightly. Motor space heater shall turn off when the motor is running.

CHANGES TO DRAWINGS

1.07 Drawing E-07:

Add a conduit between the Telemetry Panel and Pump Control Panel. Conduit shall be routed to the control portion of the Pump Control Panel. Add the leader, "1-CAT6, 1\"C\"".

ATTACHMENTS

1.05 Question and Answer Document – two pages.

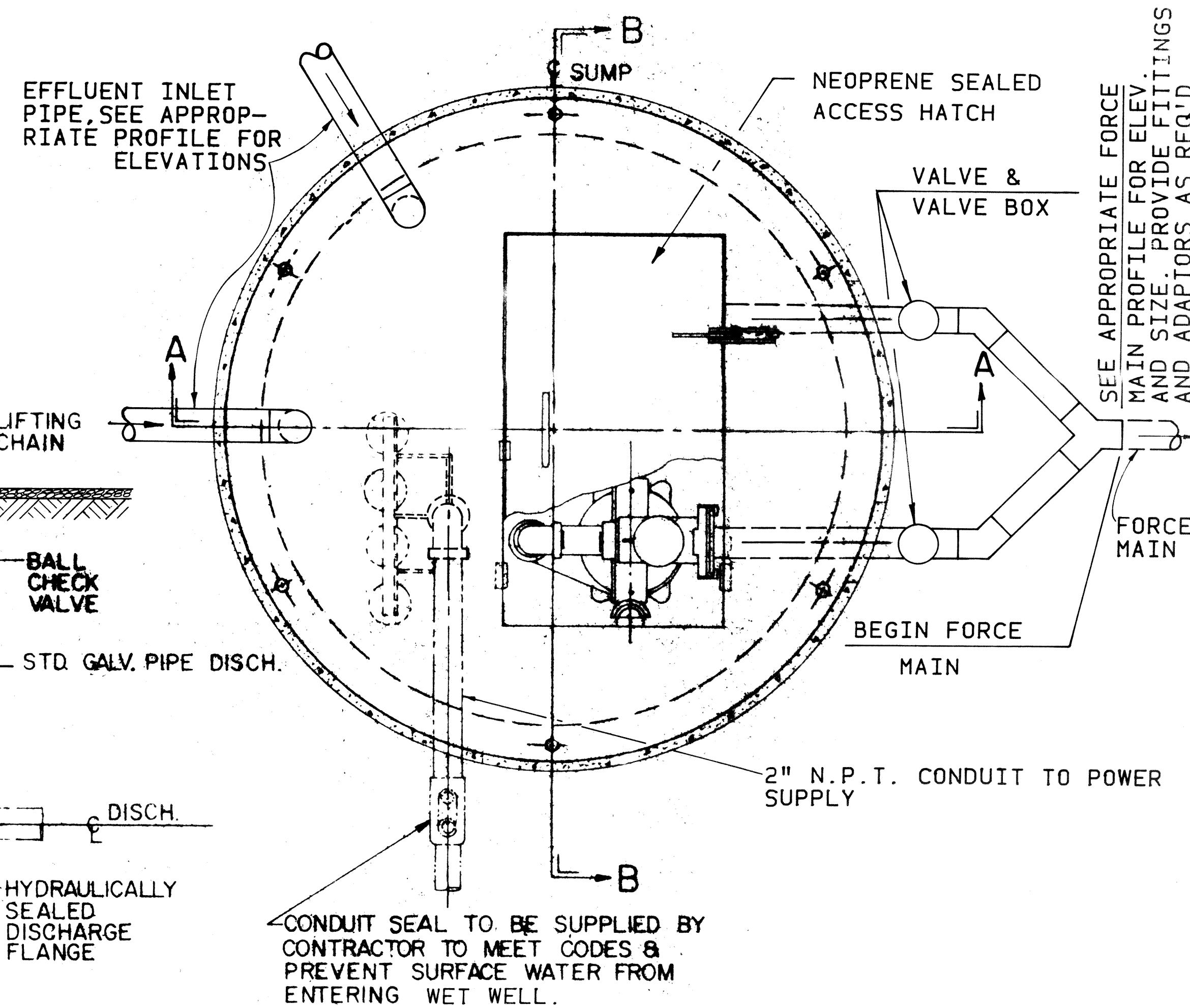
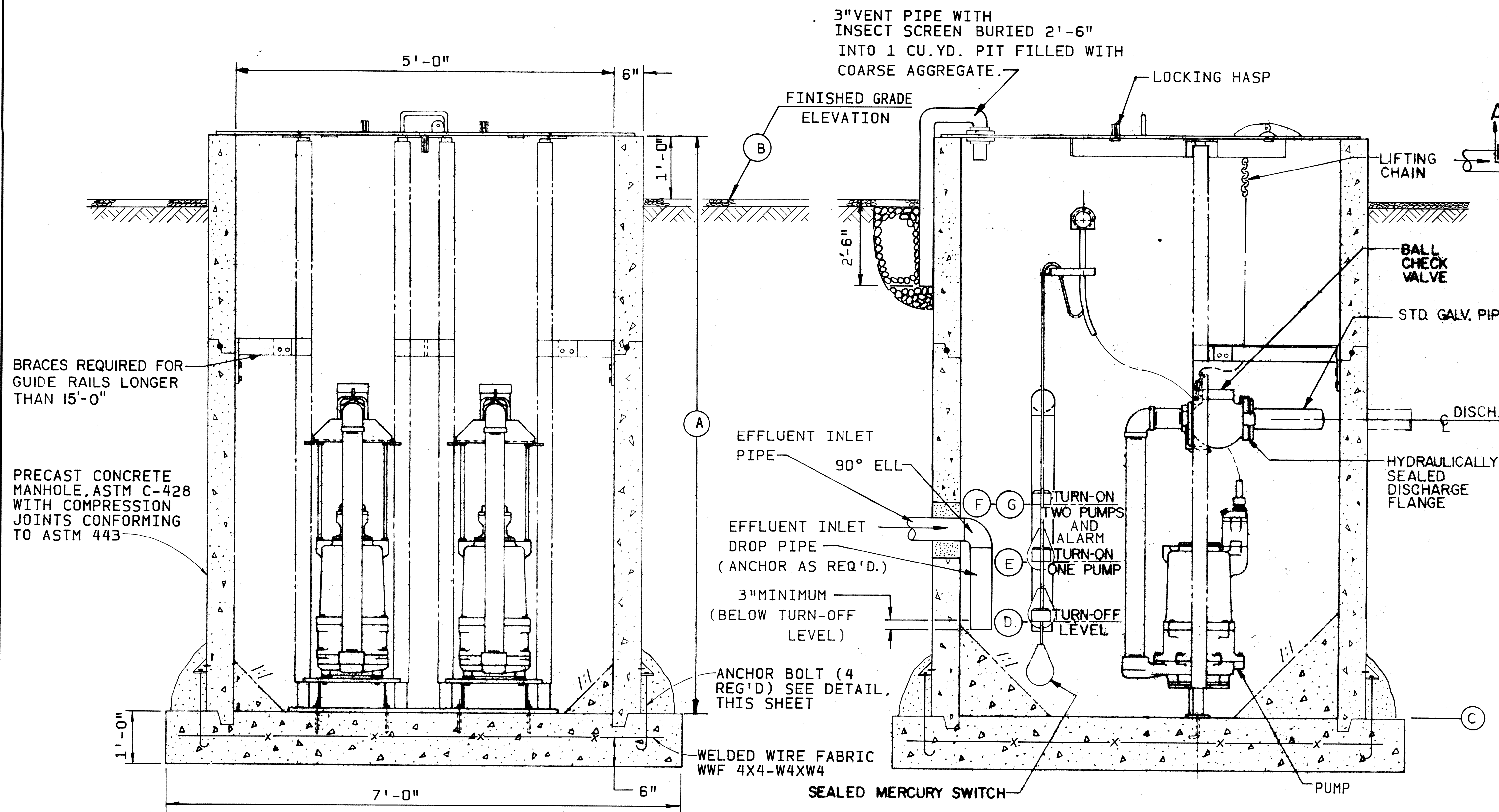
1.06 Page 54 from a set of plans titled "Village of Smithfield Small Diameter Sanitary Sewer System, Contract A", prepared by W.E. Quicksall and Associates, Inc., New Philadelphia, Ohio, dated 1987. This drawing is from the records kept by Jefferson County Water and Sewer District; the accuracy/inaccuracy of the information is unknown by Owner or Engineer, and should be confirmed by the bidder. It is being provided herein since the information it contains was requested by a vendor. Planholders may request additional historical drawings or information; if available, Engineer will provide electronic copies to planholders.

END OF ADDENDUM NO. 1

- 1 Q 1) How much sludge volume is expected in the lagoons total?
A This question will be addressed by addendum.
- 2 Q 2) What if there is more than the estimated volume? Say maybe double? If so, is the fairest way to bid sludge removal per dry ton if going to a landfill?
A This question will be addressed by addendum.
- 3 Q 3) We understand there are approximately 400 septic tanks that feed the nine lift stations that need rebuilt. Has any maintenance or pumping been done in recent years to remove any of those solids that would be further hindering the lift station rebuilds?
A The District has pumped out approximately 90 of the approximately 350 septic tanks.
- 4 Q 4) If pumping was done, did the solids go to the Barbers Hollow facility or down to the headworks of the Smithfield lagoons? If so, is there any record of number of tanks or gallonage that went to the Smithfield location?
A The majority of the materials were placed into the "splitter box" at the Smithfield WWTP.
- 5 Q 5) If the product is dewatered, is there an estimate of how many gallons per minute process water can be handled in return?
A The Owner does not anticipate an issue with process water return but will coordinate with Contractor to determine the best place to discharge.
- 6 Q 6) Is there any fresh water or power available for dewatering?
A WWTP lagoon supernatant is available for this use; but if this is unacceptable, potable water will be made available by Owner. Existing WWTP power is not expected to be sufficient for the Work; the Contractor is responsible for providing sufficient power for the Work.
- 7 Q 7) Is Land Application being proposed? And If so, will the contractor have to secure ground, screen the product for inorganics (plastics) and treat the biosolids to meet pathogen and vector attraction results?
A This question will be addressed by addendum.
- 8 Q 8) Can the access road to the WWTP sustain large volumes of heavy truck traffic down to the facility, and who is responsible for maintaining that road?
A Please refer to Specifications Section 01 55 13, Access Roads and Parking Areas. The Contractor is responsible for maintaining and restoring access roads needed for the Work.

- 9 Q 9) The tops of the liners show significant wear. What will happen if after removing the biosolids it is determined that the lagoon liners need replaced?
- A This question will be addressed by addendum.**
- 10 Q Page 43 21 39.13-9 & 10 Paragraph 2.4 -21 refers to PLC in accordance with Section 40 64 00 but above that #'s-8-12 refers to supplying dry contacts? Which do they want?
- A Both dry contacts referenced in Section 43 21 39.13, Paragraph 2.4.A.1.c.8 – 12 are required in addition to the PLC referenced in Paragraph 2.4.A.1.c.21. The logic to control the pumps shall be done utilizing relays and the signals indicated on the I/O schedule in Section 40 61 93 wired into the PLC. The PLC will communicate over a data cable to the proposed telemetry panel.**
- 11 Q I think I'm not going to include the OIT, the spec says "where shown on the drawings" I don't see the OIT on any of the drawings and don't really know what the function of the OIT would be. The PLC is only taking the digital inputs and converting them to ethernet so the telemetry panel can read them.
- A No OIT is required in the instances of the pump stations.**

PUMP STATION NUMBER	OVERALL HEIGHT	FINISHED GRADE	BOTTOM ELEV.	CONTROL ELEVATIONS				FOR PLAN SEE SHEET
	A	B	C	D	E	F	G	
1	15.5'	1201.5±	1187.00	1189.00	1190.0	1190.50	1190.50	6
2	29.0'	1210.0±	1182.00	1184.00	1185.0	1185.50	1185.50	15
3	15.0'	1070.0±	1056.00	1058.00	1059.0	1059.50	1059.50	18
4	23.0'	1189.0±	1167.00	1169.00	1170.0	1170.50	1170.50	17
5	14.5'	1163.5±	1150.00	1152.00	1153.0	1153.50	1153.50	14
6	12.0'	1085.5±	1074.50	1076.50	1077.50	1078.00	1078.00	21
7	16.0'	1235.0±	1220.00	1222.00	1223.0	1223.50	1223.50	9
8	17.0'	1216.0±	1200.00	1202.00	1203.0	1203.50	1203.50	11
9	15.0'	1124.5±	1110.50	1112.50	1113.5	1114.00	1114.00	18



SEWERAGE APPROVED
 OHIO DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY
 AS EVIDENCED BY COPY OF LETTER OF APPROVAL HERETO ATTACHED

- NOTES: 1. ALL DISCHARGE PIPING & VALVES SHALL BE AS RECOMMENDED BY THE PUMP STATION MANUFACTURER.
2. DURING CONSTRUCTION THE PUMP STATION WILL BE BUOYANT UNTIL CONSTRUCTION HAS BEEN COMPLETED. THE EXCAVATED AREA SURROUNDING THE PUMP STATION MUST BE KEPT FREE OF GROUND AND SURFACE WATER UNTIL CONSTRUCTION IS COMPLETED.

FOR TYPICAL SITE DETAILS, SEE SHEET NO. 55
 FOR PUMP STATION DRIVE PROFILES, SEE SHEET NO. 56 & 57
 FOR TYPICAL ELECTRICAL DETAILS, SEE SHEET NO. 58

