

ADDENDUM NO. 1
SEWER SYSTEM IMPROVEMENTS
CONTRACT 17-01
SOUTH WASTEWATER TREATMENT PLANT
AERATION BASIN IMPROVEMENTS
HENDERSON WATER UTILITY
HENDERSON, KENTUCKY
WAUFORD PROJECT NO. 2077

Date of Addendum: Monday, July 3, 2017

Mandatory Pre-Bid Conference:

Wednesday, July 5, 2017, 10:00 A.M. Local Time

Bid Opening: Wednesday, July 12, 2017, 1:30 P.M. Local Time

1. Detailed Specifications, Section 4. Site Preparation and Development, Paragraph 6.b. Fills Below the Bottom of Soil Liner, Page DS 4-6:

Modify the first sentence as follows:

Where rock or **crushed stone** is encountered below the bottom of the lagoons, it shall be removed to a point 24-inches below the soil liner.

2. Detailed Specifications, Section 4. Site Preparation and Development, Paragraph 6.d. Soil Nail System, Page DS 4-7:

Modify the title of the paragraph as follows:

Soil Nail System (***Repeated from Geotechnical Report***)

3. Detailed Specifications, Section 6A. Synthetic Lagoon Liner System, Paragraph 4.b. Seams and Overlaps, Page DS 6A-4:

Modify the first sentence as follows:

Adjacent edges of the geonet along the length of the geocomposite roll shall **be** placed with the edges of each geonet butted against each other.

4. Detailed Specifications, Section 6A. Synthetic Lagoon Liner System, Page DS 6A-14:

Add the following paragraph:

“11. Warranty

The Manufacturer of the equipment supplied under this specification shall provide a warranty for a period of three years commencing on final acceptance by the Engineer. The Manufacturer shall guarantee that the equipment furnished is suitable for the purpose intended and free from defects in design, materials and workmanship. In the event that the equipment fails to perform as specified, the Manufacturer shall, at his option, promptly repair, modify or replace the defective equipment.”

5. Detailed Specifications, Section 6B. Aeration System, Paragraph 3. Performance Requirements, Page DS 6B-1:

Revise the paragraph as follows:

3. Performance Requirements

The aeration system provided for the activated sludge basin shall provide for uniform mixing and oxygen transfer throughout the plane parallel with the basin floor.

Mixing energy shall be sufficient so that after five minutes of aeration at the air flow rates specified hereinafter, the concentration of mixed liquor suspended solids, up to maximum 3,000 mg/l concentration, shall not vary more than ten percent from the statistical mean value in a basin operating at maximum liquid level.

The aeration system in the activated sludge basin shall be capable of providing the standard oxygen transfer rate (SOR) requirements under process conditions listed hereinafter during aeration for the available actual air flow rate (ICFM) provided. The actual air flow rate (ICFM) will be delivered to the top connection to the drop legs at a 7.25 psig pressure at the maximum water level in the basins. The standard air flow (SCFM) at 14.7 psig atmospheric pressure 36 percent relative humidity and 20°C air temperature for each available actual air flow rate condition is provided for reference.

SOR (lbs. O ₂ /hr.)/ Basin Required Under Process Conditions	SCFM Delivered/ Basin	ICFM Delivered/ Basin 9,173 @ 100°F Air Temperature, 75% Relative Humidity and 14.5 PSIA
2,340	8,524	
1,608	5,856	5,514 @ 30°F Air Temperature, 75% Relative Humidity and 14.5 PSIA

Regardless of the SOR provided by the aeration system, the maximum air flow rate per diffuser shall not exceed 2.0 SCFM at peak.

~~The Manufacturer shall take into consideration that this system will initially operate at the reduced airflow condition until a plant renovation is undertaken.~~ Due to varying flow characteristics in influent wastewater caused by local industry, the Owner may choose to operate the aeration basins with fewer blowers. The minimum air flow sent to each basin **will be** 3,700 SCFM. The minimum number of diffusers shall be 4,300/**Basin**.

6. Detailed Specifications, Section 6B. Aeration System, Page DS 6B-4:

Add the following paragraph:

“7. Warranty

The Manufacturer of the equipment supplied under this specification shall provide a warranty for a period of three years commencing on final acceptance by the Engineer. The Manufacturer shall guarantee that the equipment furnished is suitable for the purpose intended and free from defects in design, materials and workmanship. In the event that the equipment fails to perform as specified, the Manufacturer shall, at his option, promptly repair, modify or replace the defective equipment.”

7. Bid Form:

Replace Bid Form Page BF-6 with Page BF-6* and add Page BF-6A after Bid Form Page BF-6*.

8. Davis-Bacon Wage Rates

Add Cover Page “Davis-Bacon Wage Rates” and the wage rates after the final page of “A Listing of the Duties, Responsibilities, and Limitations of Authority of the Resident Project Representative”.

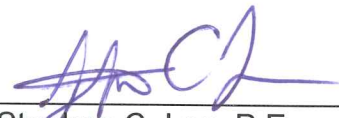
9. Plans, Sheet 4:

Modify as shown on the attached 8 ½" x 11" sheet.

10. Plans, Sheet 5:

Modify as shown on the two (2) attached 8 ½" x 11" sheets.

J. R. WAUFORD & COMPANY,
CONSULTING ENGINEERS, INC.



Stephen C. Lee, P.E.
Kentucky License No. 27833

BID FORM
2077 – June 2017

9. CONTRACT 17-01 – SOUTH WASTEWATER TREATMENT PLANT AERATION
BASIN IMPROVEMENTS (cont'd)

BID FORM B – ADJUSTMENT ITEMS (cont'd)

ITEM NUMBER	APPROXIMATE QUANTITY	DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	TOTAL PRICE
4.	2,500 C.Y.	Removal and replacement of existing soils with suitable borrow material obtained from a site provided by the Owner within a 5-mile radius of the project site, including all excavation, transportation, backfilling, completed in place, including all incidentals where directed by the Engineer For _____ _____ Dollars _____ Cents, per cubic yard	\$ _____	\$ _____
TOTAL BID FORM B ADJUSTMENT ITEMS 1-4 INCLUSIVE			\$ _____	
TOTAL BID FORM A (REPEAT FROM BF-3)			\$ _____	
TOTAL BID, CONTRACT 17-01, SUM OF BID FORM A PLUS BID FORM B			\$	

**NOTE: PRICES IN BID
FORMS A & B SHALL NOT
INCLUDE ADDITIONAL
COSTS AS A RESULT OF
DAVIS-BACON WAGE
RATES. SEE BID FORM C,
ITEM NO. 1. OWNER WILL
DETERMINE APPLICABILITY
OF WAGE RATES DEPENDING
ON FUNDING SOURCE.**

BID FORM
2077 – June 2017

9. CONTRACT 17-01 – SOUTH WASTEWATER TREATMENT PLANT AERATION
BASIN IMPROVEMENTS (cont'd)

BID FORM C – ADDITIVE ITEMS

ITEM NUMBER	APPROXIMATE QUANTITY	DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	TOTAL PRICE
1.	Lump Sum	Additional costs if Davis- Bacon Wage Rates are required as a result of funding source. For _____ _____ Dollars _____ Cents, lump sum		\$ _____
TOTAL, BID FORM C, ITEM 1, INCLUSIVE			\$	_____

Davis-Bacon Wage Rates
(See Bid Form C, Item No. 1)

General Decision Number: KY170150 05/19/2017 KY150

Superseded General Decision Number: KY20160150

State: Kentucky

Construction Type: Heavy

County: Henderson County in Kentucky.

HEAVY CONSTRUCTION PROJECTS (including sewer/water construction).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.20 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017
1	05/19/2017

CARP0090-001 04/01/2014

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 24.24	17.20

* ELEC1701-001 01/01/2016

	Rates	Fringes
ELECTRICIAN.....	\$ 30.36	15.49

ENGI0181-050 07/01/2016

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 31.05	14.65
GROUP 2.....	\$ 28.28	14.65
GROUP 4.....	\$ 27.97	14.65

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Crane; Drill; Loader; Mechanic; Pumpcrete

GROUP 2 - Bobcat/Skid Steer/Skid Loader; Concrete Pump

GROUP 4 - Pump

Operators on cranes with booms 150 feet and over (including jib) shall receive \$1.00 above Group 1 rate; 250 feet and over including jib shall receive \$1.50 above Class 1 rate. Combination Rate: All crane operators operating cranes, where the length of the boom in combination with the length of the piling leads equal or exceeds 150 feet, shall receive \$1.00 above the Group 1 rate.

Employees assigned to work below ground level are to be paid 10% above basic wage rate. This does not apply to open cut work.

IRON0070-001 06/01/2016

	Rates	Fringes
IRONWORKER (ORNAMENTAL AND REINFORCING).....	\$ 27.91	21.11

LABO0265-015 05/01/2015

	Rates	Fringes
LABORER		
Flagger.....	\$ 28.72	9.85

LABO0561-013 07/01/2015

	Rates	Fringes
LABORER		
Backfiller, Common or General, Concrete Worker, Form Stripping & Grade Checker.....	\$ 21.86	13.10
Concrete Finishing.....	\$ 22.76	13.10
Jack Hammer, Pipelayer& Tamper (Hand Held/Walk Behind).....	\$ 22.11	13.10

LABO1392-003 07/01/2015

	Rates	Fringes
LABORER		
Concrete Saw (Hand Held/Walk Behind).....	\$ 23.56	11.45

* UAVG-KY-0005 06/25/2014

	Rates	Fringes
OPERATOR: Forklift.....	\$ 27.38	14.15

* UAVG-KY-0006 06/25/2014

	Rates	Fringes
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OPERATOR:

Backhoe/Excavator/Trackhoe.....\$ 28.49 14.15

SUKY2011-027 06/25/2014

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 25.46	17.49
OPERATOR: Bulldozer.....	\$ 23.63	10.98
OPERATOR: Oiler.....	\$ 24.34	13.00
OPERATOR: Roller.....	\$ 20.21	13.00
OPERATOR: Trencher.....	\$ 26.34	12.58
TRUCK DRIVER: Dump Truck.....	\$ 16.69	6.20

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

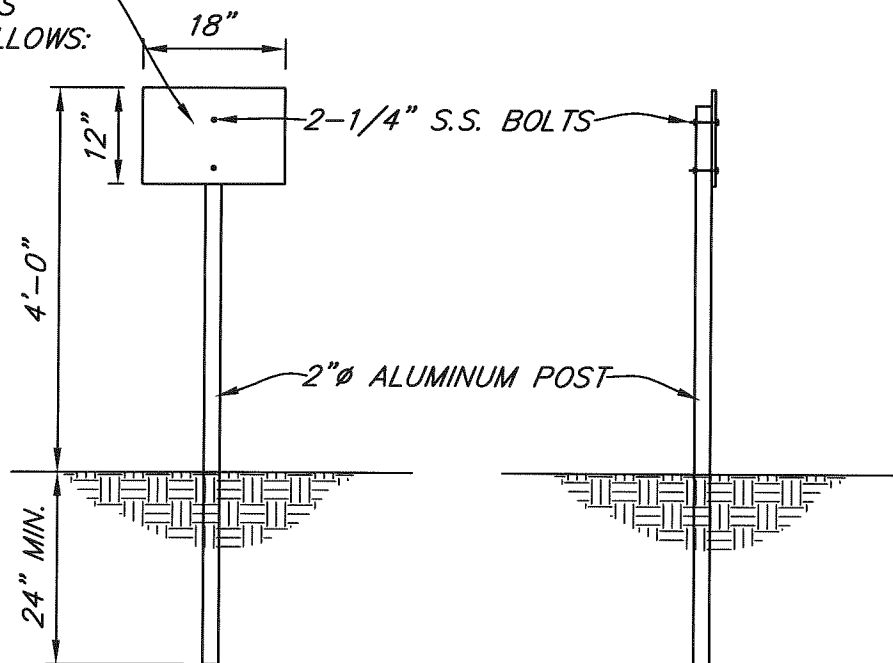
4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

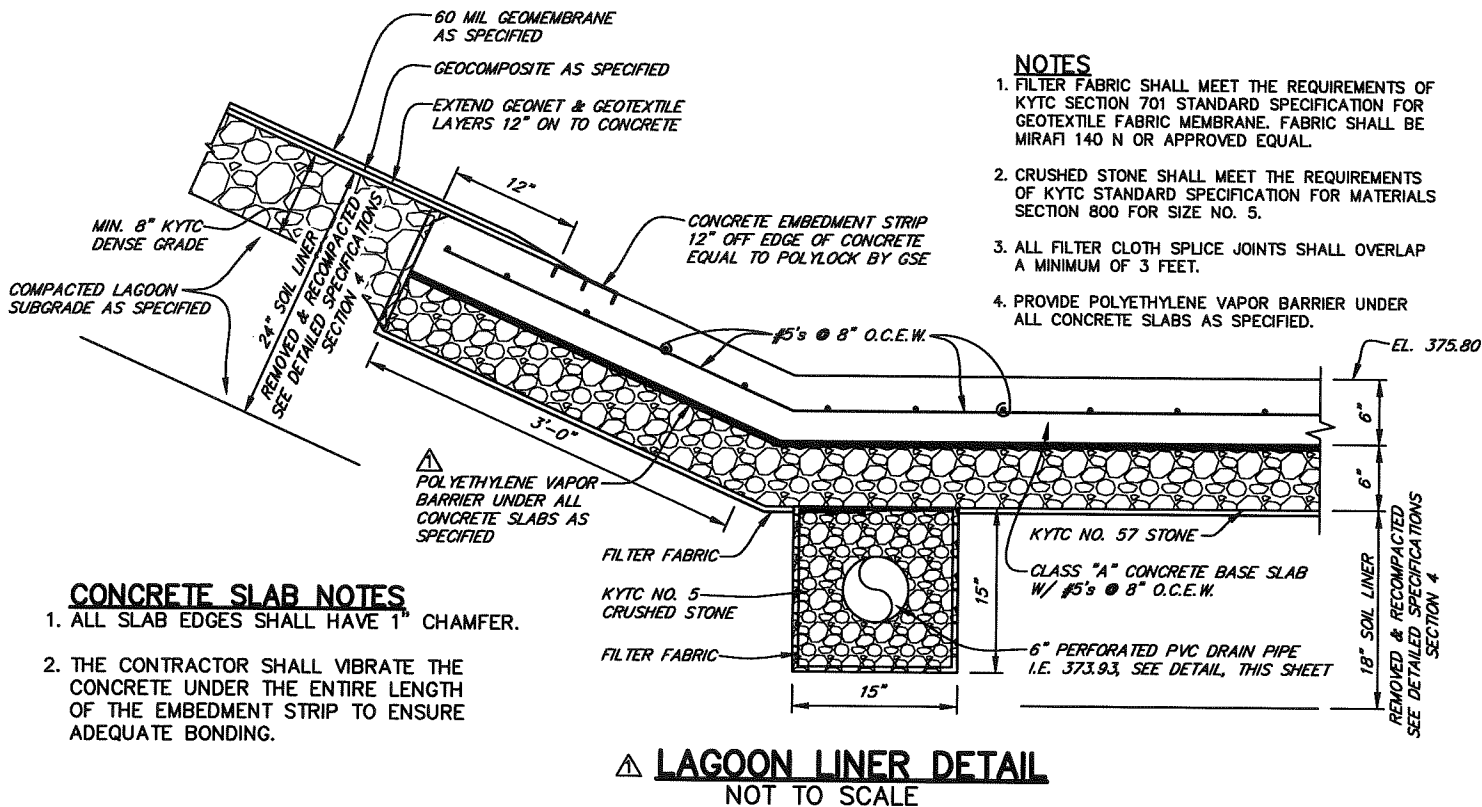
①

ALUMINUM SIGN -
WHITE BACKGROUND W/ 3/4"
ENGRAVED BLACK LETTERS
SIGN SHALL READ AS FOLLOWS:
PRIOR TO DEWATERING
AN AERATION BASIN,
THE WWTP OPERATOR
SHALL VERIFY OPERATION
OF THE GROUNDWATER
PUMPING STATION. THE
FLAP VALVE LOCATED
AT THE BOTTOM OF
THIS MANHOLE SHALL
BE VISIBLE.

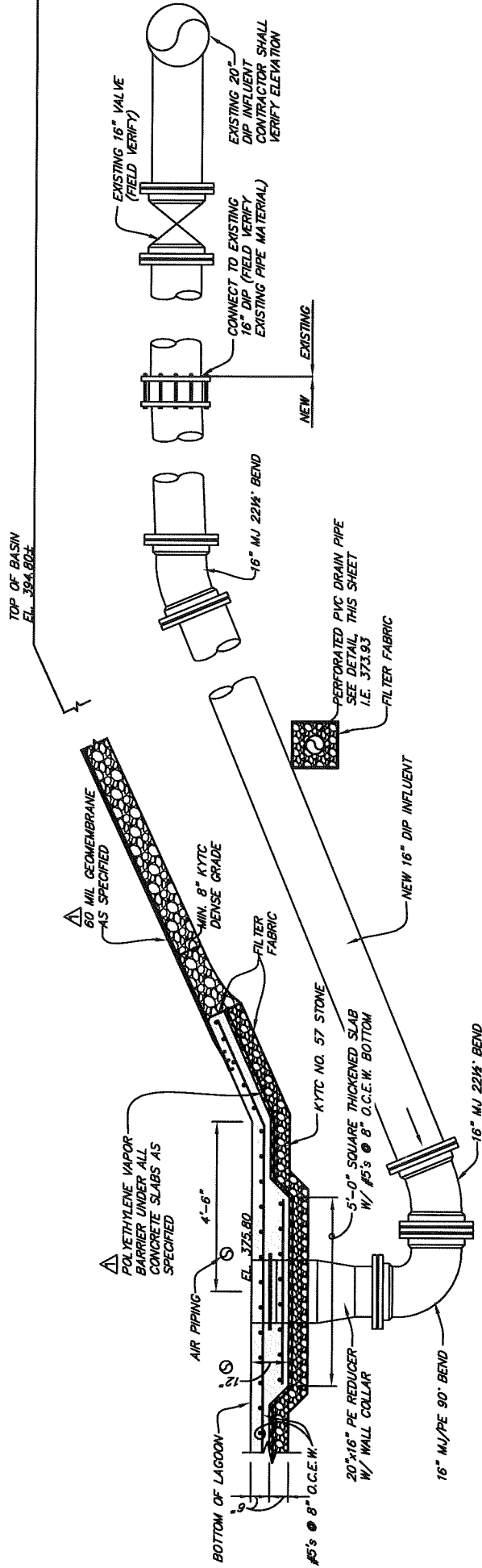


① **FLAP VALVE SIGN DETAIL (TYP. FOR 4)**
NO SCALE

SHEET 4 OF 7	SEWER SYSTEM IMPROVEMENTS CONTRACT 17-01- SOUTH WASTEWATER TREATMENT PLANT AERATION BASIN IMPROVEMENTS		
REVISIONS ① ADDENDUM NO. 1 6/30/2017 WZM	AERATION BASIN DRAIN - PROFILE AND DETAILS		
	FOR HENDERSON WATER UTILITY HENDERSON, KENTUCKY		
	SCALE AS SHOWN	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED DGT
PROJECT NUMBER 2077	DATE JUNE 2017		DRAWN WZM CHECKED SCL



SHEET 5 OF 7		SEWER SYSTEM IMPROVEMENTS		
REVISIONS		CONTRACT 17-01-		
ADDENDUM NO. 1 6/30/2017 WZM		SOUTH WASTEWATER TREATMENT PLANT AERATION BASIN IMPROVEMENTS		
△		TYPICAL AERATION BASIN – PLAN, SECTIONS, AND DETAILS		
		FOR		
		HENDERSON WATER UTILITY		
		HENDERSON, KENTUCKY		
SCALE		WAUFORD		DESIGNED
AS SHOWN				DGT
PROJECT NUMBER		J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com		DRAWN
2077				WZM
		DATE		CHECKED
		JUNE 2017		SCL



INFLUENT PIPE DETAIL (6 REQ'D) NOT TO SCALE

SHEET 5 OF 7	SEWER SYSTEM IMPROVEMENTS CONTRACT 17-01 – SOUTH WASTEWATER TREATMENT PLANT AERATION BASIN IMPROVEMENTS		
REVISIONS ADDENDUM NO. 1 6/30/2017 WZM	TYPICAL AERATION BASIN – PLAN, SECTIONS, AND DETAILS		
	FOR HENDERSON WATER UTILITY HENDERSON, KENTUCKY		
PROJECT NUMBER 2077	SCALE AS SHOWN	DESIGNED DGT	
	DATE JUNE 2017	DRAWN WZM	
		CHECKED SCL	

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