

ADDENDUM NO. 3
HWEA CONTRACT # 133-2019-01
HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION
HOPKINSVILLE WATER ENVIRONMENT AUTHORITY
HOPKINSVILLE, KENTUCKY
WAUFORD PROJECT NO. 1983

Date of Addendum: Friday, January 10, 2020
Mandatory Pre-Bid Meeting: Tuesday, January 21, 2020, 9:00 a.m. Central Time
Bid Opening: Thursday, February 6, 2020, 2:00 p.m. Central Time

1. Questions and Clarifications:

See the attached Questions and Clarifications document.
2. BID FORM, Page BF-9*:

Replace Page BF-9* with the attached revised Page BF-9**.
3. Davis Bacon Wage Rates, Construction Type: Building and Construction Type: Heavy:

Replace the Davis Bacon Wage Rates with the attached Davis Bacon Wage Rates dated 01-03-2020.
4. Detailed Specifications, Section 10. Miscellaneous Equipment, Paragraph 12. Diaphragm Chemical Metering Pump (One Required), Page DS 10-5:

Modify the paragraph as follows:

“The Contractor shall furnish and install diaphragm chemical metering pumps where shown on the Plans. Chemical metering pumps shall be adjustable output with inputs which allow remote operation via the WWTP SCADA system. Components shall be suitable for pumping sodium hypochlorite at a feed rate between 0.5 and **41** gallons per day (gpd). Power supplied shall be 120V, single phase 60Hz. Pumps shall be suitable for a maximum operating pressure of 250 psi. Diaphragm chemical metering pumps shall be Pulsatron LMH4TA-PTC1-G19 or approved equal.”

5. Detailed Specifications, Sub-Section 11I. Positive Displacement Blowers (Post Aeration), Paragraph 4.a. items (1) Scope and (2) Performance Criteria, Page DS 11I-2*:

Modify items (1) and (2) as follows:

“4. Equipment

a. Positive Displacement Blower

(1) Scope

Furnish two (2) new positive displacement blowers and appurtenances as shown on the Drawings and as specified herein. The entire blower package and its components shall comply with all applicable safety and environmental regulations.

Package shall be Aerzen Model GM 25S, Gardner Denver Model ES **65/3P** or pre-approved equal.

(2) Performance Criteria

Quantity of Blowers	2
Design Inlet Temperature	100°F
Site Elevation	510 feet above sea level
Design Inlet Pressure	14.42 psia
Design Relative Humidity	75%
Design Flow	582 scfm / 625 icfm per Blower
Design Discharge Pressure	6.0 psig
Maximum Blower Speed	4,000 rpm
Motor Hp (Maximum)	30
Free Field Noise Pressure	95 dB(A) @ 1 meter (at design point)

Package BHP to include pressure loss through a clean inlet filter / silencer, pressure loss of the exhaust silencer and check valve.

Package Performance shall be guaranteed to ISO 1217 with a tolerance is +/- 5% on volume flow and +/- 5% on package horsepower.

Sound data shall be from an ISO 2151 method of measurement, in an ISO 3745 qualified test facility. Sound data shall be compliant with a Declaration of Conformity assessment standard.”

6. Plans, Sheets 3, 7, and 9:

Modify the existing Oxidation Ditch No. 1 weir elevation as follows:

“WEIR 511.45”

7. Plans, Sheets 7, 23, 24, 27, 39, 47, 56, 59, 60, 69, 73, 77, 79, 81, and 82:

Modify these sheets as shown on the attached 8 ½” X 11” sheets.

8. Plans, Sheet 4, Site Plan, Deductive Alternate No. 2:

Change sheet reference for solar drying units to “*Sheets 76-79*”.

9. Plans, Sheet 12, Erosion Control Plan, Catch Basin 15, 18” RCP Outlet pipe:

Modify the 18” RCP I.E. at outfall headwall as follows:

“I.E. 505.0”

10. Plans, Sheets 40 and 43, Proposed Oxidation Ditch No. 3, 36” Dip Effluent to Mixed Liquor Distribution Structure:

Modify the I.E. at the effluent box as follows:

“I.E. 498.33”

11. Plans, Sheet 43, Oxidation Ditch Effluent Weir Detail:

Modify the weir plate weir elevation as follows:

“WEIR EL. 511.45”

Change the weir plate weir elevation to “*511.45*”.

12. Plans, Sheet 52, Top Plan, Manhole P:

Modify the note describing the outlet pipe to read as follows:

"48" DIP Clarifier Effluent, See Site Piping Plan for Continuation"

13. Plans, Sheet 63, Wall Plan-Sludge Holding Tank No. 1 Orientation, Manhole J:

Modify the note describing the outlet pipe to read as follows:

"10" DIP to MH H, See Site Piping Plan for Continuation"

14. Plans, Sheet 66, Section C-67:

Change section label to "C-66"

15. Plans, Sheet 67, Section B-66:

Change section label to "B-67"

16. Plans, Sheet 68, Blower/Electrical Building Exterior Elevations:

Modify the elevation view label to read as follows:

"BIOSOLIDS DEWATERING BUILDING EXTERIOR ELEVATIONS"

17. Plans, Sheet 75, Effluent Disinfection Building Exterior Elevations:

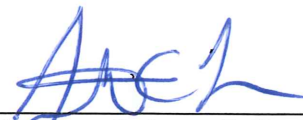
Modify the emergency eyewash shower note to read as follows:

"EMERGENCY SHOWER & EYEWASH, SEE MECHANICAL SHEETS"

18. Plans, Sheets 11, 16, 17, 19, 21, 22, 31, 53, 55, 65, 70, 71, 72, 74, 84, A2 and A3:

Replace these sheets with the attached revised 30" X 42" sheets.

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



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

PRE-BID QUESTIONS AND CLARIFICATIONS
HWEA CONTRACT # 133-2019-01
HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION
HOPKINSVILLE WATER ENVIRONMENT AUTHORITY
HOPKINSVILLE, KENTUCKY

Bid Date: Thursday, February 6, 2020
Time: 2:00 PM Central Time

Questions/Answers and Clarifications:

1. **Clarification** – Any prospective bidder wishing to visit the Hammond-Wood Wastewater Treatment Plant site may call the plant at 270-887-4298.
2. **Question** – *Can the requirements for the Contractor’s warranty and major equipment warranties be clarified?*

Answer – Refer to the following:

Standard General Conditions of the Construction Contract, Article 15, Paragraph 15.08, Detailed Specifications, Section 1, Paragraph 4, and, Detailed Specifications, Sub-Sections 11A through 11P – Part I, Last Paragraph of each Sub-Section.

3. **Question** – *What will the effluent reuse system water system pressure be at the WWTP?*

Answer – The effluent reuse water system pressure is expected to vary between 75 psi and 125 psi. Pressure reducers suitable for effluent reuse water shall be provided by the equipment vendor where proposed equipment requires lower water pressures.

4. **Question** – *Where is Addendum No. 1?*

Answer – Addendum No. 1 was incorporated into the documents issued to plan holders and plan rooms. Addendum No. 1 is dated November 25, 2019 as shown in the title block on the applicable plan sheets.

5. **Question** – *With Addendum No. 1 included as part of the original bid documents, are we required to list receipt of Addendum No. 1 on the Bid Form?*

Answer – Yes.

6. **Question** – *Detailed Specifications, Sub-Section 11A, Paragraph 3 requires the screen to be designed to resist hydraulic pressure due to 100% blinding of the screen at full channel depth. Is this required?*

Answer – Yes.

**BID FORM: HAMMOND-WOOD WASTEWATER TREATMENT PLANT
EXPANSION (cont'd)**

BID FORM A – CONSTRUCTION (cont'd)

Sub-Section	Description	Price	Equipment Used in Base Bid (Show only one per Sub-Section)
11L	<u>Screw Press Equipment</u>		
	Schwing Bioset, Inc.	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11M	<u>Solar Drying Equipment</u>		
	Parkson	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11N	<u>Peracetic Acid Storage Tank and Transfer Pump</u>		
	PeroxyChem	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11O	<u>Fabricated Slide Gates, Weir Gates and Accessories</u>		
	Whipps Water Control Products	\$ _____	\$ _____
	R W Gate Company	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____
11P	<u>Controls and Instrumentation</u>		
	HTI, Inc. utilizing ABB Variable Frequency Drives	\$ _____	\$ _____
	HTI, Inc. utilizing Allen-Bradley Variable Frequency Drives	\$ _____	\$ _____
	Approved equal	\$ _____	\$ _____

Pricing may not include applicable taxes. All applicable taxes shall be included in the Contractor's price under Bid Form A – Lump Sum Price.

"General Decision Number: KY20200089 01/03/2020

Superseded General Decision Number: KY20190089

State: Kentucky

Construction Type: Building

County: Christian County in Kentucky.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 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 \$10.80 per hour (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 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0 01/03/2020

BOIL0040-001 03/01/2018

	Rates	Fringes
BOILERMAKER.....	\$ 35.10	27.56

ENGI0181-053 06/01/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Crane).....	\$ 33.54	16.50

CRANES WITH BOOM 150 FEET & OVER, INCLUDING JIB, SHALL RECEIVE \$.75 ABOVE THE WAGE RATE; 250 FEET AND OVER, INCLUDING JIB, SHALL RECEIVE \$1.50 ABOVE THE WAGE RATE. ALL CRANES WITH PILING LEADS WILL RECEIVE \$.50 ABOVE THE WAGE, REGARDLESS OF BOOM LENGTH.

ENGI0181-054 06/01/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Drill).....	\$ 32.45	16.50

ENGI0181-079 06/01/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Loader).....	\$ 32.45	16.50

ENGI0181-080 06/01/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Forklift).....	\$ 32.45	16.50

ENGI0181-093 06/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR		

(Oiler).....\$ 26.78 15.75

IRON0044-017 06/01/2019

Rates Fringes

IRONWORKER, ORNAMENTAL.....\$ 29.47 21.20

LABO0561-009 04/01/2019

Rates Fringes

LABORER (Mason Tender - Brick)...\$ 23.12 16.02

LABO1445-002 06/01/2018

Rates Fringes

LABORER (Power Tool Operator)....\$ 28.84 16.20

PAIN0156-004 04/01/2018

Rates Fringes

PAINTER: Spray.....\$ 27.45 15.23+A

FOOTNOTE A:

All Structures over 40? \$0.75/ hour above base wage

All Structures over 75? \$1.50/ hour above base wage

All Structures over 100? \$2.50/ hour above base wage

PLUM0184-006 07/01/2019

Rates Fringes

PLUMBER.....\$ 35.86 18.38

PLUM0633-001 08/01/2018

Rates Fringes

PIPEFITTER.....\$ 31.17 18.10

* ROOF0106-010 04/01/2019

Rates Fringes

ROOFER.....\$ 30.30 16.52

SFKY0669-002 04/01/2018

Rates Fringes

SPRINKLER FITTER.....\$ 35.05 19.74

SHEE0020-001 07/01/2014

Rates Fringes

SHEET METAL WORKER (HVAC Duct
Installation Only).....\$ 29.45 19.29

* UAVG-KY-0019 01/01/2019

Rates Fringes

ASBESTOS WORKER/HEAT & FROST
INSULATOR.....\$ 28.60 16.62

SUKY2015-028 06/02/2015

Rates Fringes

BRICKLAYER.....\$ 25.09 10.05

CARPENTER (Form Work Only).....\$ 25.20 7.12

CARPENTER, Excludes Form Work...\$ 21.68 7.20

CEMENT MASON/CONCRETE FINISHER...\$ 20.56 9.56

ELECTRICIAN.....\$ 30.50 9.21

IRONWORKER, REINFORCING.....\$ 27.31 16.86

IRONWORKER, STRUCTURAL.....\$ 25.41 7.63

LABORER: Common or General.....\$ 18.04 0.00

LABORER: Mason Tender -
Cement/Concrete.....\$ 19.85 9.87

LABORER: Pipelayer.....\$ 15.00 4.08

OPERATOR:

Backhoe/Excavator/Trackhoe.....\$ 28.01	7.59
OPERATOR: Bulldozer.....\$ 24.51	12.72
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....\$ 22.52	4.00
OPERATOR: Roller.....\$ 23.60	12.65
PAINTER (Brush and Roller).....\$ 17.45	0.34
SHEET METAL WORKER, Excludes HVAC Duct Installation.....\$ 36.24	6.89
TILE FINISHER.....\$ 15.42	7.24
TILE SETTER.....\$ 20.96	0.00
TRUCK DRIVER: Dump Truck.....\$ 23.60	8.03

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

"

"General Decision Number: KY20200066 01/03/2020

Superseded General Decision Number: KY20190066

State: Kentucky

Construction Type: Heavy

County: Christian County in Kentucky.

HEAVY CONSTRUCTION PROJECTS (including sewer/water construction).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 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 \$10.80 per hour (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 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0 01/03/2020

CARP0064-007 05/01/2015

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 27.50	16.06

ELEC1701-001 06/01/2018

	Rates	Fringes
ELECTRICIAN.....	\$ 31.04	15.74

* ENGI0181-046 07/01/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 33.30	16.50
GROUP 2.....	\$ 30.44	16.50
GROUP 4.....	\$ 30.12	16.50

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 06/01/2019

Rates	Fringes
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IRONWORKER (ORNAMENTAL AND
 REINFORCING).....\$ 29.68 22.75

 LAB00265-015 05/01/2015

Rates Fringes

LABORER
 Flagger.....\$ 28.72 9.85

 LAB00561-012 07/01/2018

Rates Fringes

LABORER
 Concrete Finishing.....\$ 22.96 15.00

 LAB01214-007 07/01/2018

Rates Fringes

LABORER
 Pipelayer.....\$ 23.32 14.21

 LAB01392-001 07/01/2018

Rates Fringes

LABORER
 Concrete Saw (Hand
 Held/Walk Behind).....\$ 24.49 13.04
 Concrete Worker.....\$ 24.24 13.04

 * UAVG-KY-0005 01/01/2019

Rates Fringes

OPERATOR: Forklift.....\$ 31.43 15.75

 SUKY2011-022 06/25/2014

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 25.46 17.49

LABORER: Common or General.....\$ 20.62 11.32

OPERATOR:

Backhoe/Excavator/Trackhoe.....\$ 23.76	13.00
OPERATOR: Bulldozer.....\$ 23.14	15.51
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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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).

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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:

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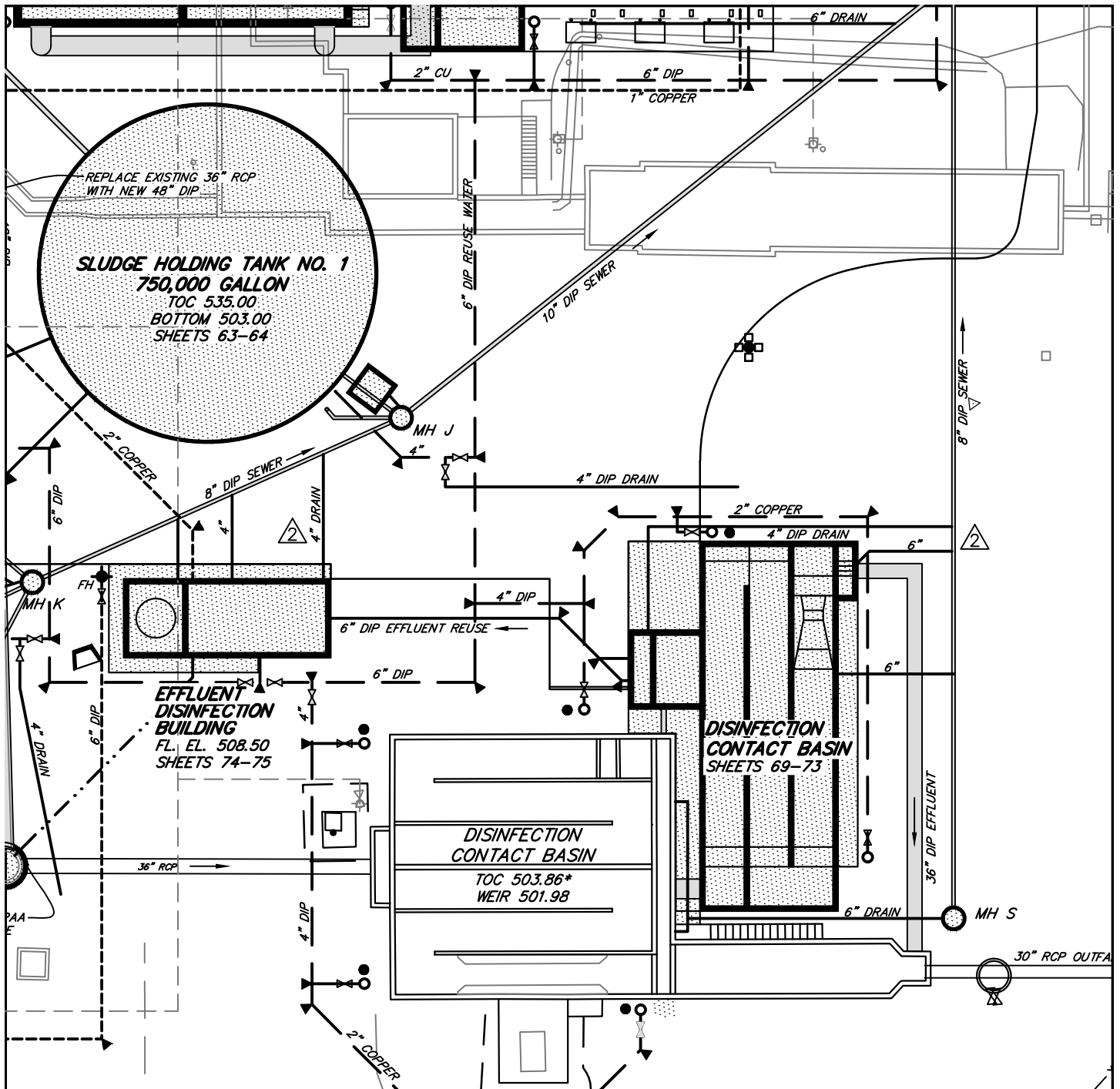
Administrative Review Board
U.S. Department of Labor
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Washington, DC 20210

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

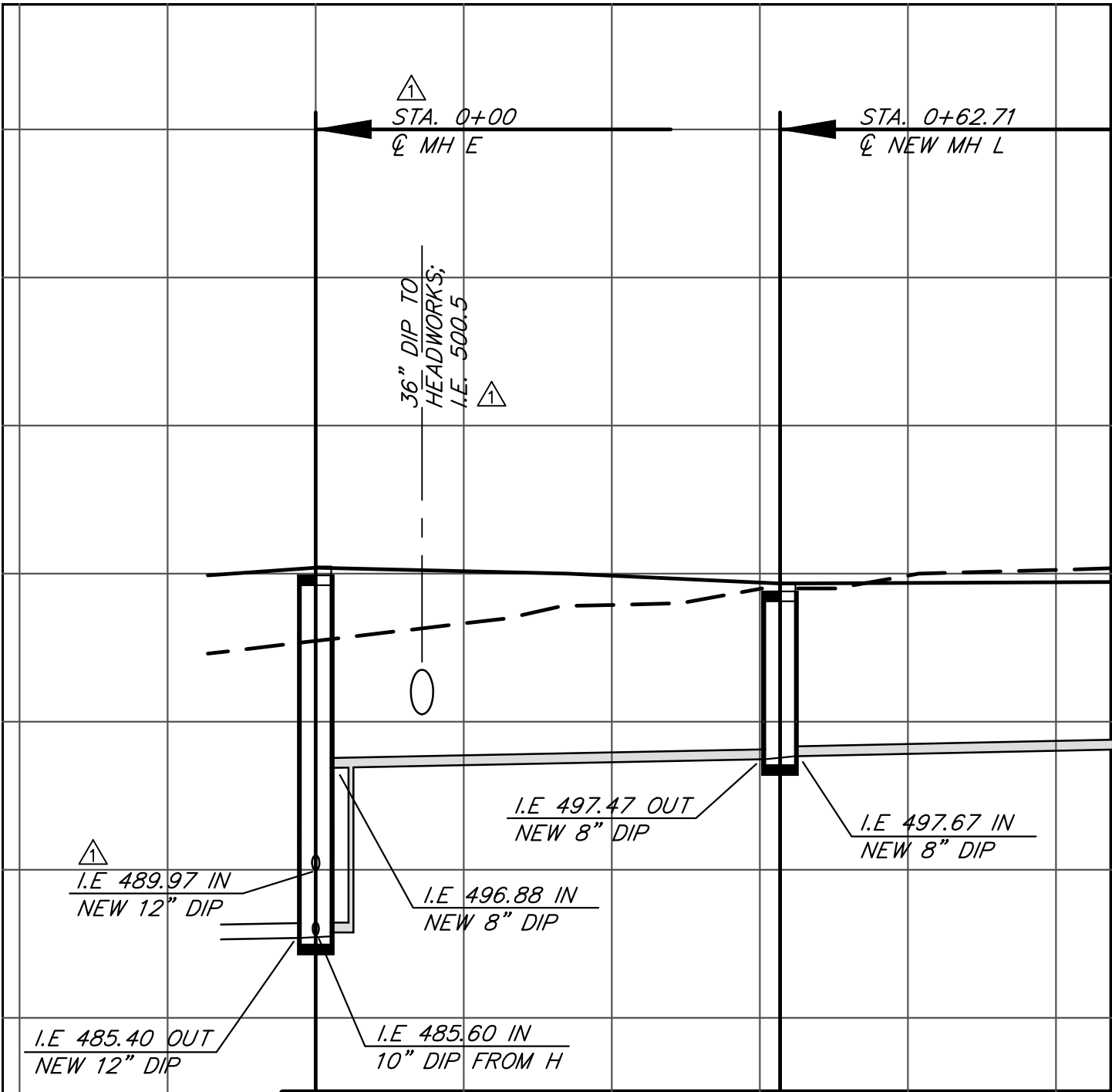
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END OF GENERAL DECISION

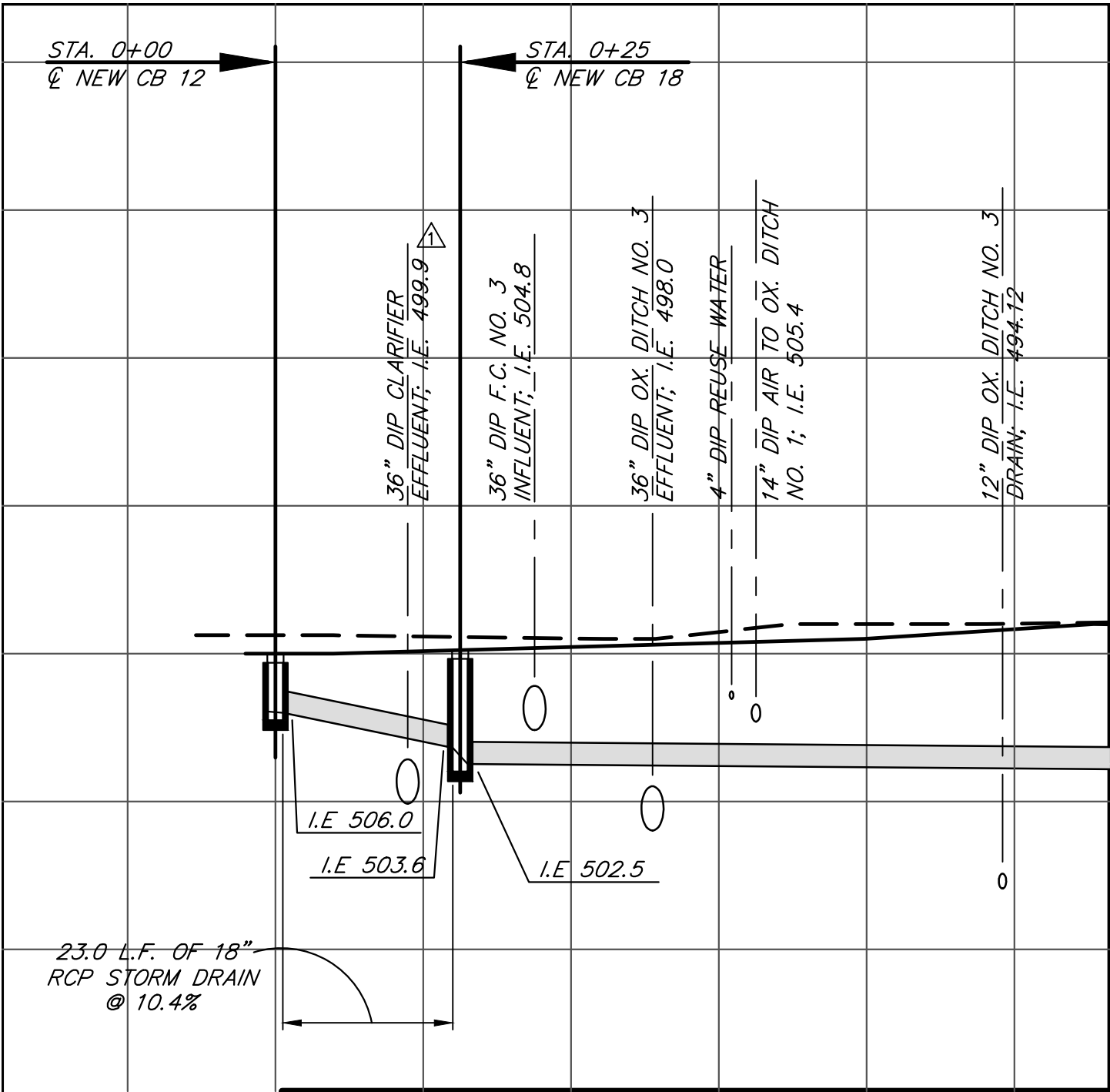
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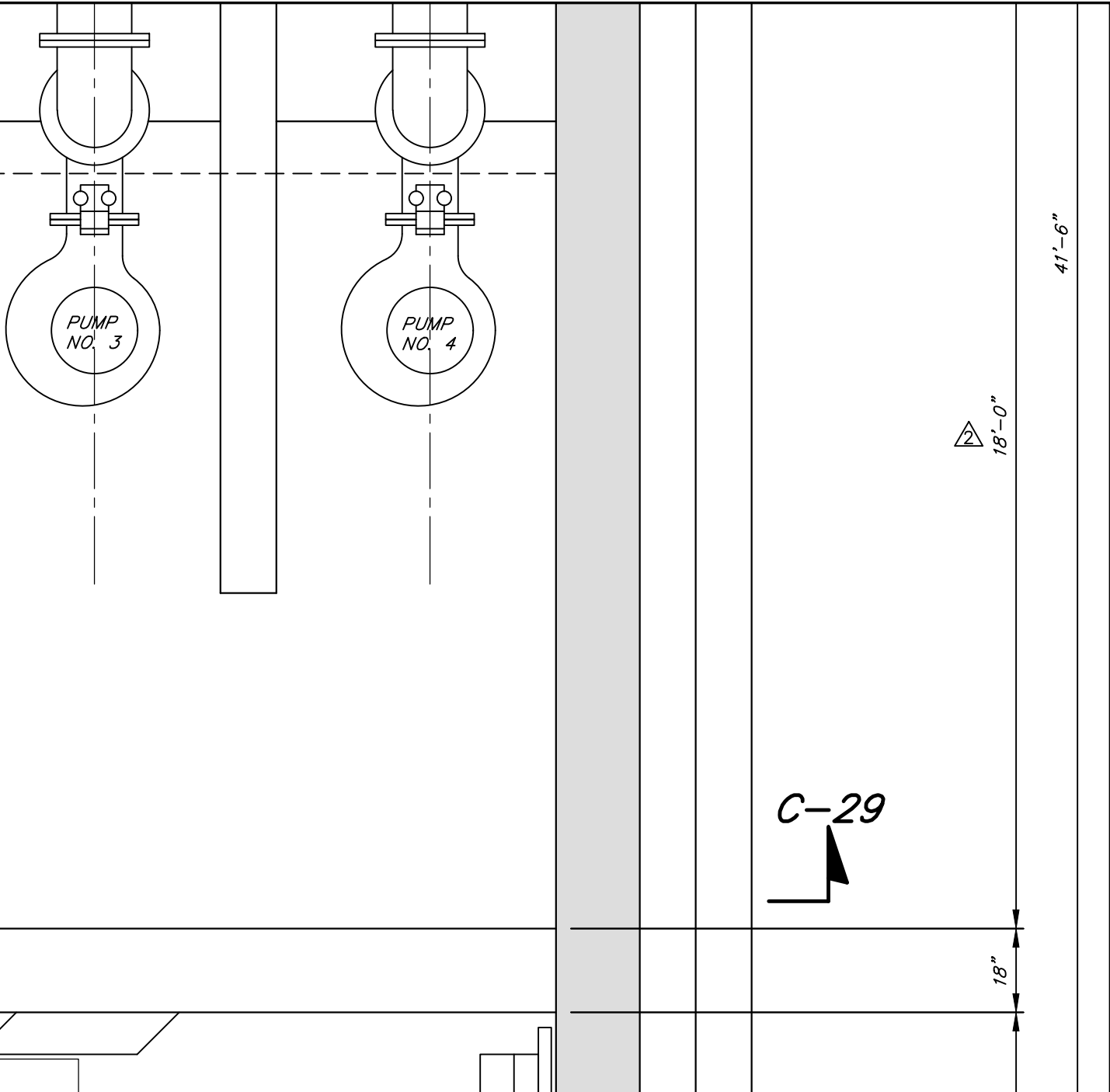
SHEET 7 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS ▲ ADDENDUM NO. 1 11/25/19 AWR ▲ ADDENDUM NO. 3 1/10/20 AWR		OVERALL SITE PIPING PLAN	
PROJECT NUMBER 1983		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
DATE FEB. 2019		WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	
		SCALE 1" = 30'	DESIGNED SCL
			DRAWN AWR
			CHECKED JGD



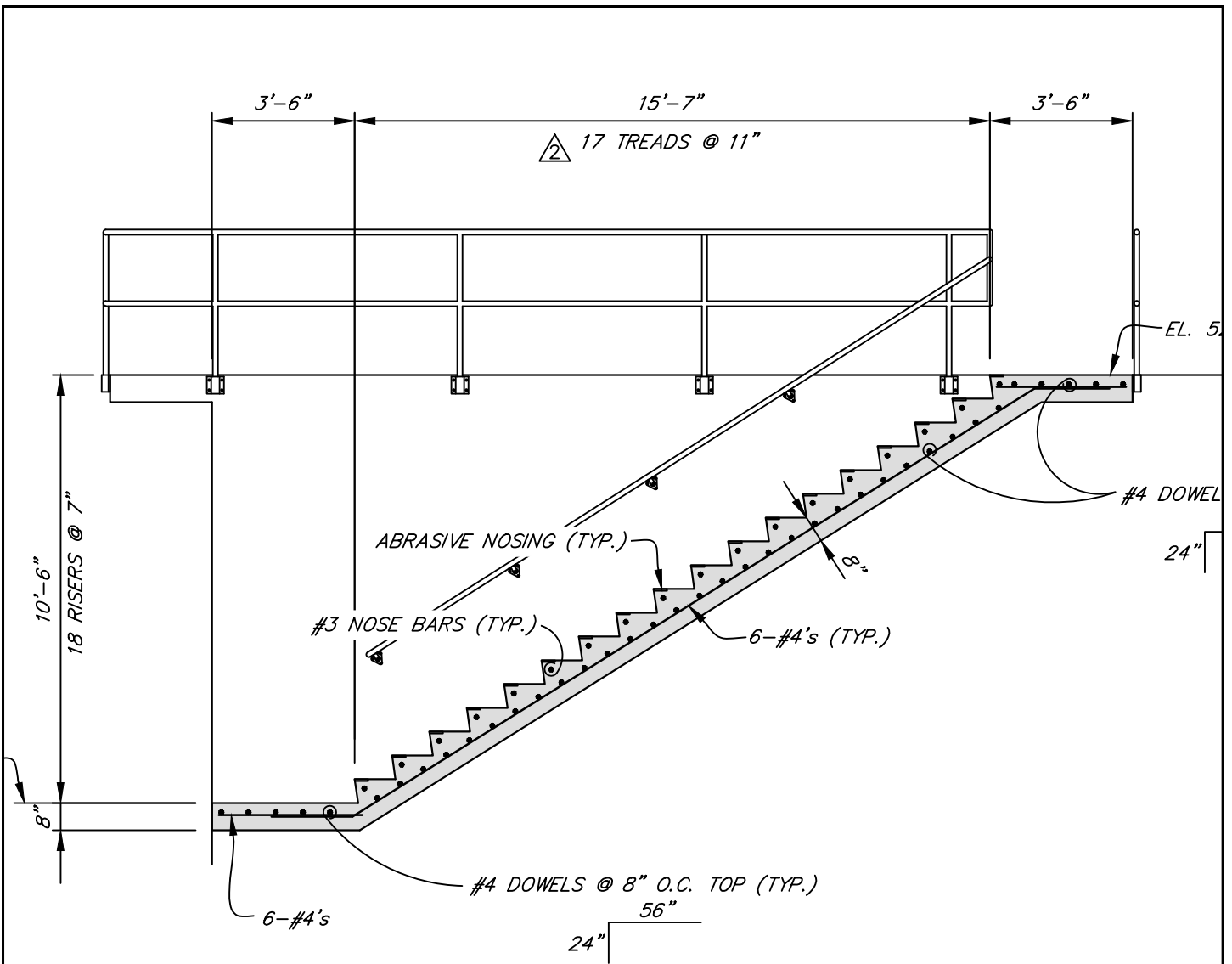
SHEET 23 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
SITE PIPING PROFILES			
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY			
SCALE 1"=20' HOR 1"=10' VERT		WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	
PROJECT NUMBER 1983			
DATE FEB. 2019		DRAWN AWR	
		CHECKED JGD	



SHEET 24 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
▲ ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
SITE PIPING PROFILES			
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY			
SCALE 1"=20' HOR 1"=10' VERT		WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	
PROJECT NUMBER 1983			
DATE FEB. 2019		DRAWN AWR	
		CHECKED JGD	

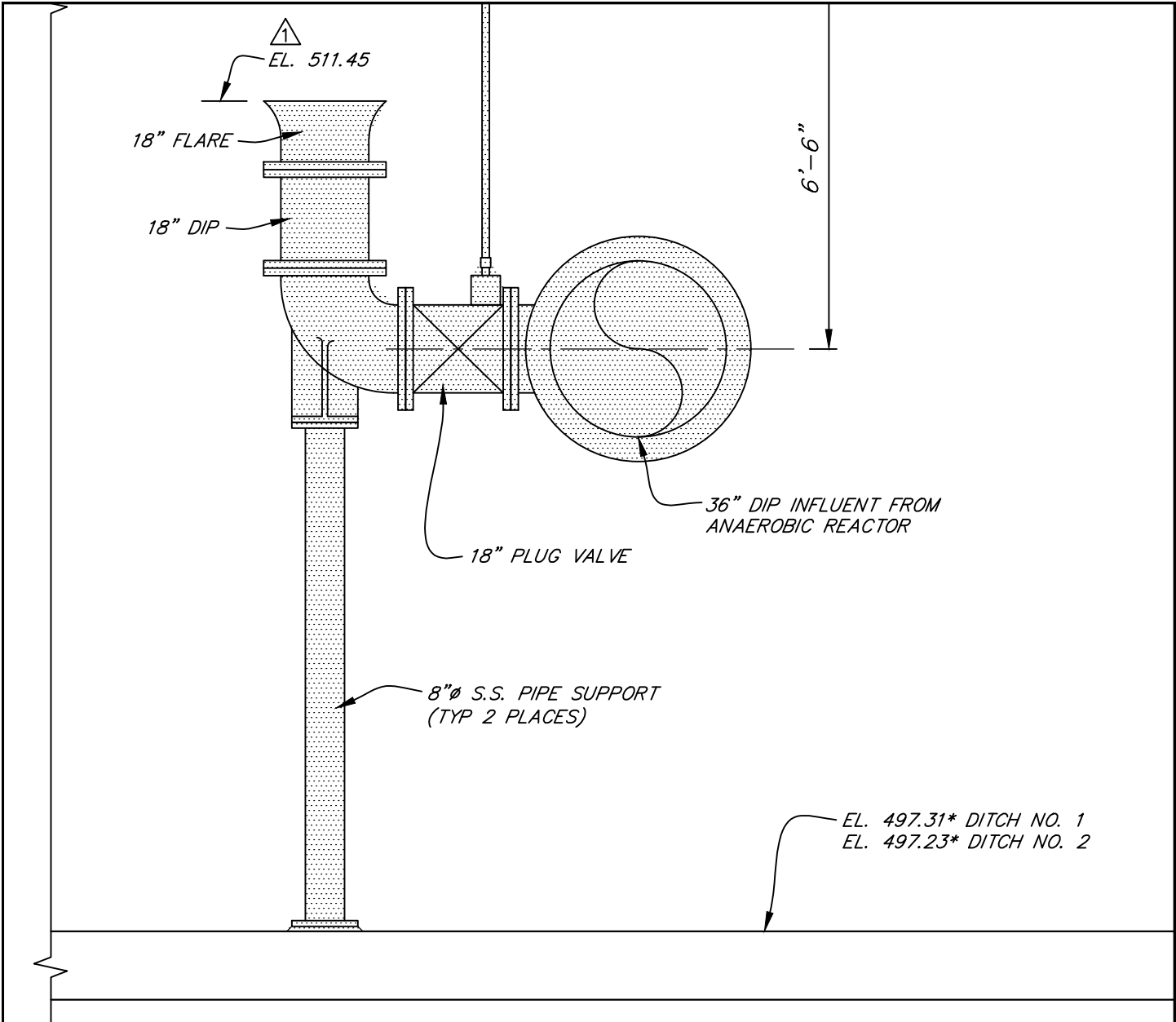


SHEET 27 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS △ ADDENDUM NO. 1 11/25/19 AWR △ ADDENDUM NO. 3 1/10/20 AWR		MAIN SEWAGE PUMPING STATION PLANS AND DETAILS	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE AS SHOWN		WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED SCL
PROJECT NUMBER 1983			DRAWN AWR
DATE FEB. 2019			CHECKED JGD



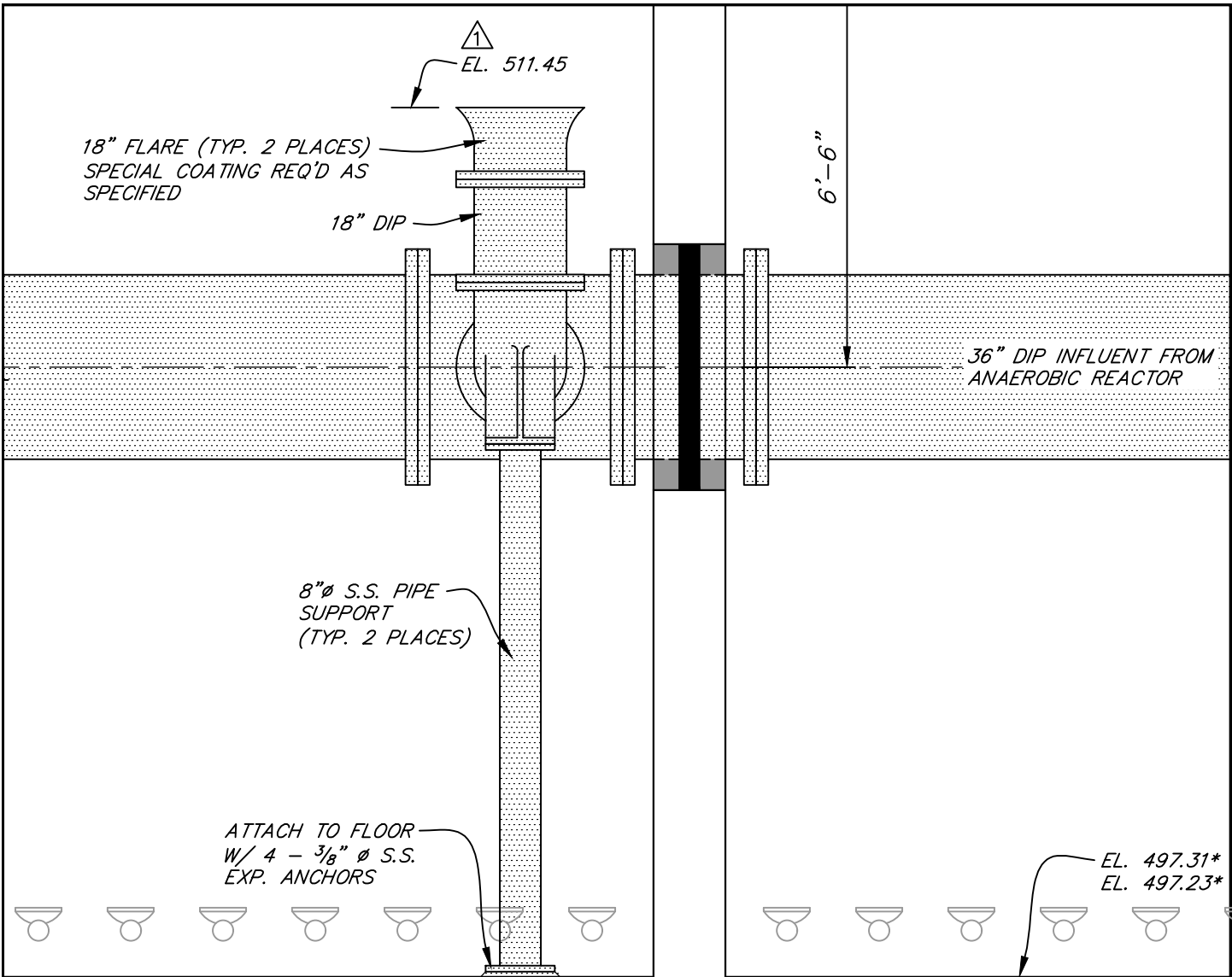
SECTION E-39
 SCALE: 1/4" = 1'-0"

SHEET 39 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS △ ADDENDUM NO. 1 11/25/19 AWR △ ADDENDUM NO. 3 1/10/20 AWR		ANAEROBIC REACTOR SECTIONS AND DETAILS	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
PROJECT NUMBER 1983		SCALE AS SHOWN	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com
		DATE FEB. 2019	



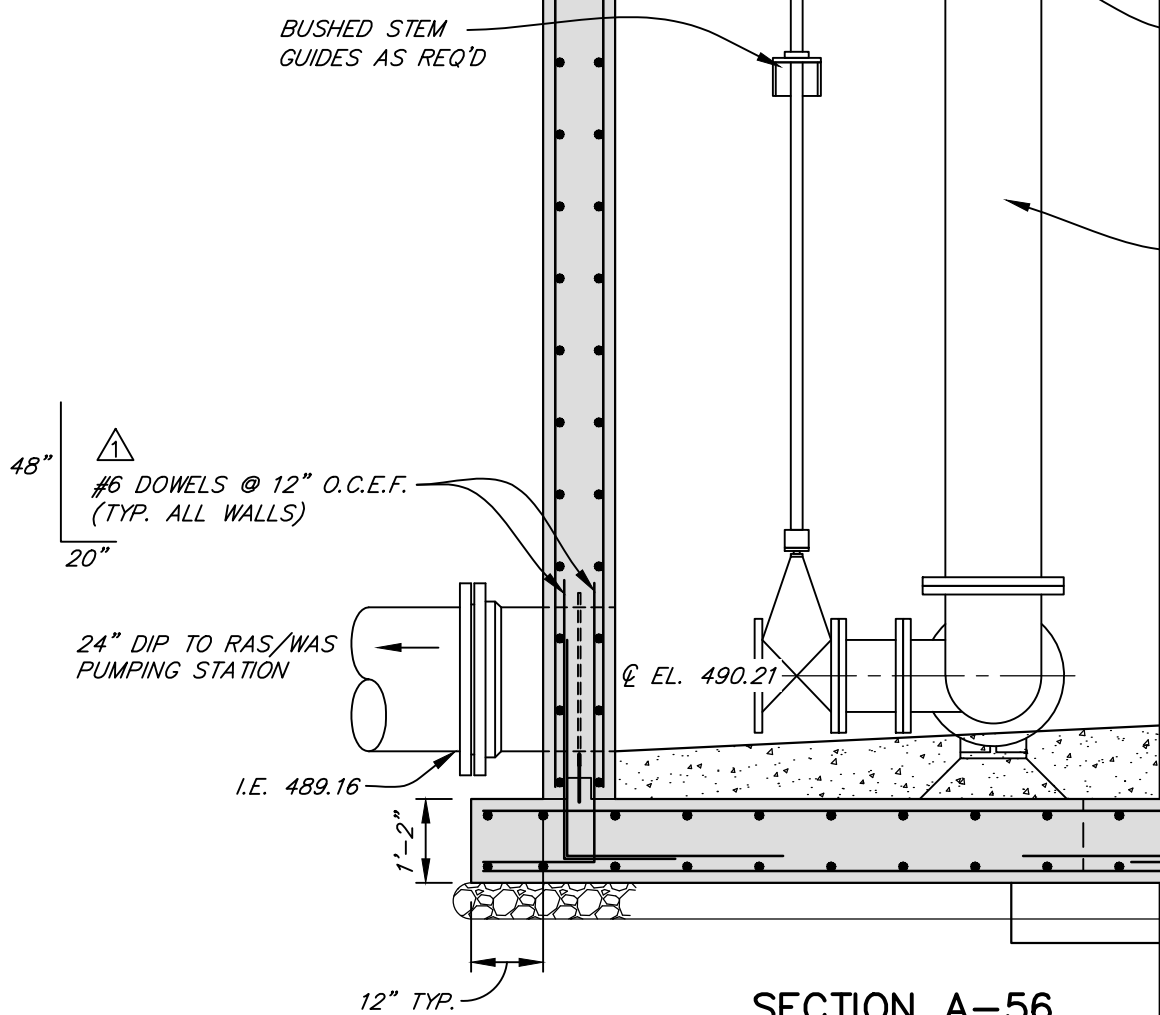
SECTION D-47
 SCALE: 3/8" = 1'-0"

SHEET 47 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
△ ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
		EXISTING OXIDATION DITCHES MODIFICATIONS PLAN AND SECTIONS	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
PROJECT NUMBER		SCALE	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com
1983	DATE	AS SHOWN	
			DESIGNED SCL
			DRAWN AWR
			CHECKED JGD



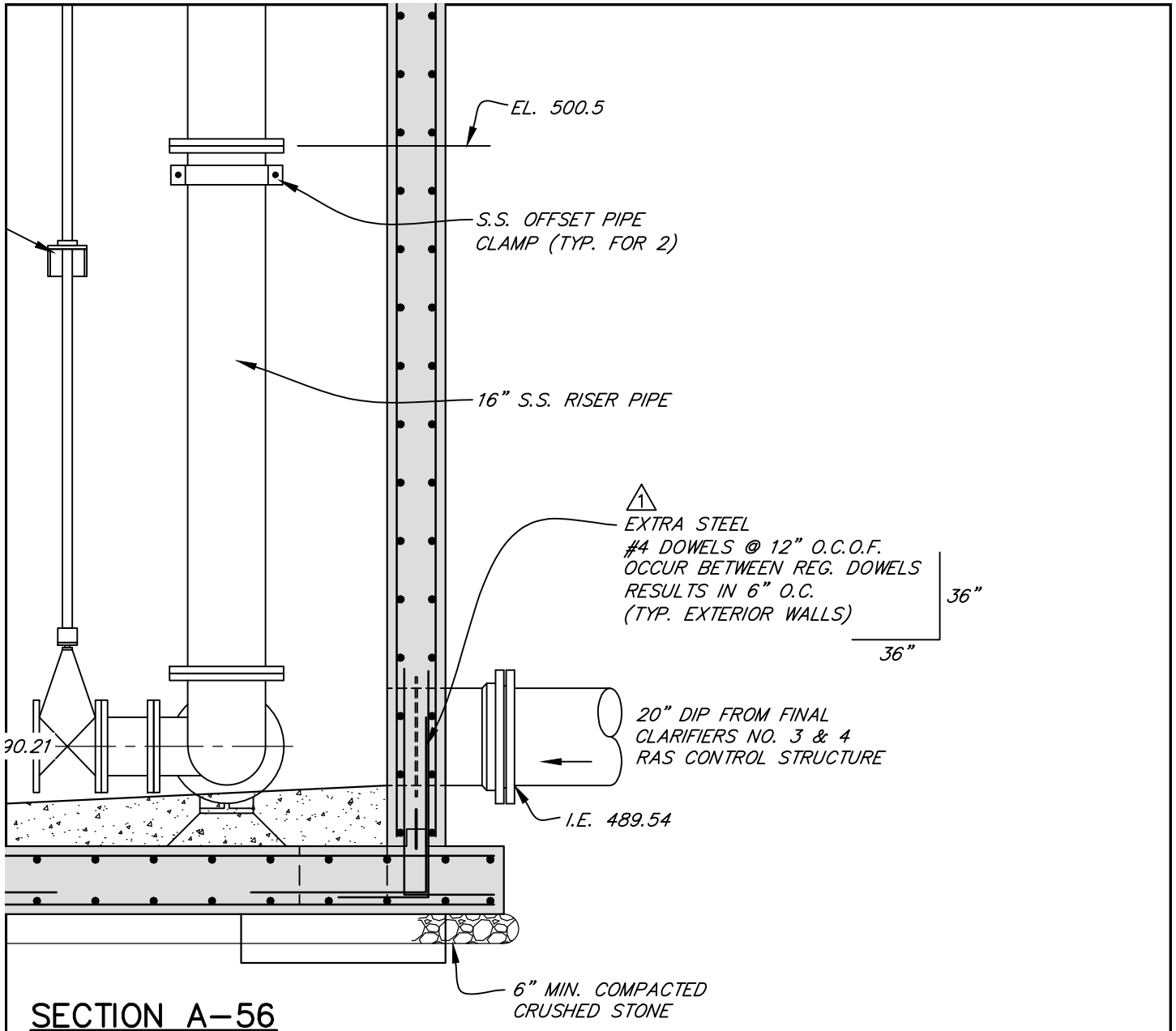
SECTION C-47
 SCALE: 3/8" = 1'-0"

SHEET 47 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS △ ADDENDUM NO. 3 1/10/20 AWR		CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
		EXISTING OXIDATION DITCHES MODIFICATIONS PLAN AND SECTIONS	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
PROJECT NUMBER		SCALE	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com
1983		AS SHOWN	
DATE		DESIGNED	SCL
FEB. 2019		DRAWN	AWR
		CHECKED	JGD



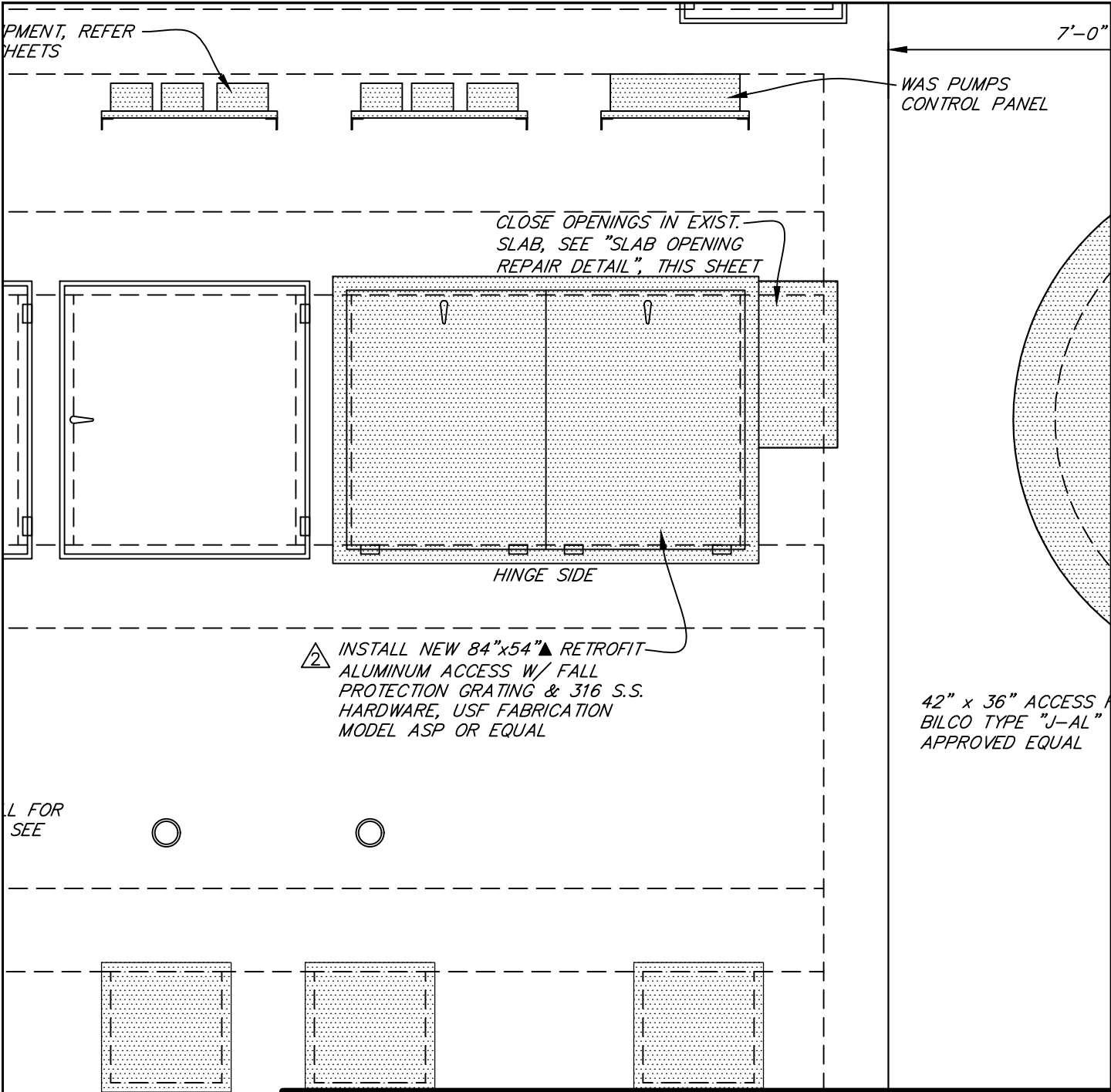
SECTION A-56

SHEET 56 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
▲ ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
		FINAL CLARIFIERS NO. 1 & 2	
		RAS CONTROL STRUCTURE	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE	AS SHOWN	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED SCL
PROJECT NUMBER	DATE		DRAWN AWR
1983	FEB. 2019		CHECKED JGD



SECTION A-56

SHEET 56 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
△		FINAL CLARIFIERS NO. 1 & 2	
		RAS CONTROL STRUCTURE	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
PROJECT NUMBER		SCALE	WAUFORD
1983		AS SHOWN	
DATE		J. R. Wauford & Company, Consulting Engineers, Inc.	
FEB. 2019		Nashville, Tennessee	
		(615)883-3243	
		www.jrwauford.com	
		DESIGNED SCL	
		DRAWN AWR	
		CHECKED JGD	



SHEET 59 OF 97		SEWER SYSTEM IMPROVEMENTS	
		CONTRACT NO. 133-2019-01	
		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS ▲ ADDENDUM NO. 1 11/25/19 AWR ▲ ADDENDUM NO. 3 1/10/20 AWR		RAS/WAS PUMP STATION MODIFICATIONS PLANS AND DETAILS	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE AS SHOWN		WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED SCL
PROJECT NUMBER 1983			DATE FEB. 2019
			CHECKED JGD

▲
 INSTALL NEW 84"x54"▲ RETROFIT
 ALUMINUM ACCESS W/ FALL
 PROTECTION GRATING & 316 S.S.
 HARDWARE, USF FABRICATION
 MODEL ASP OR EQUAL

42" x 36" AL
 BILCO TYPE
 APPROVED EC

CORE DRILL WALL &
 INSTALL PIPING W/
 LINK-SEAL MODULAR SEAL

℄ EL. 508.0

℄ EL. 505.32*

12" DIP

12" DIP

6" DIP

S.S. GUIDE RAIL
 SYSTEM BY
 PUMP MFR

4" GATE V

SHEET **60** OF **97** **SEWER SYSTEM IMPROVEMENTS**
 CONTRACT NO. 133-2019-01
 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION

REVISIONS
 ▲ ADDENDUM NO. 1
 11/25/19 AWR
 ▲ ADDENDUM NO. 3
 1/10/20 AWR

**RAS/WAS PUMP STATION
 MODIFICATIONS SECTIONS AND DETAILS**

FOR
**HOPKINSVILLE WATER
 ENVIRONMENT AUTHORITY**

SCALE
 AS SHOWN

PROJECT NUMBER
 1983

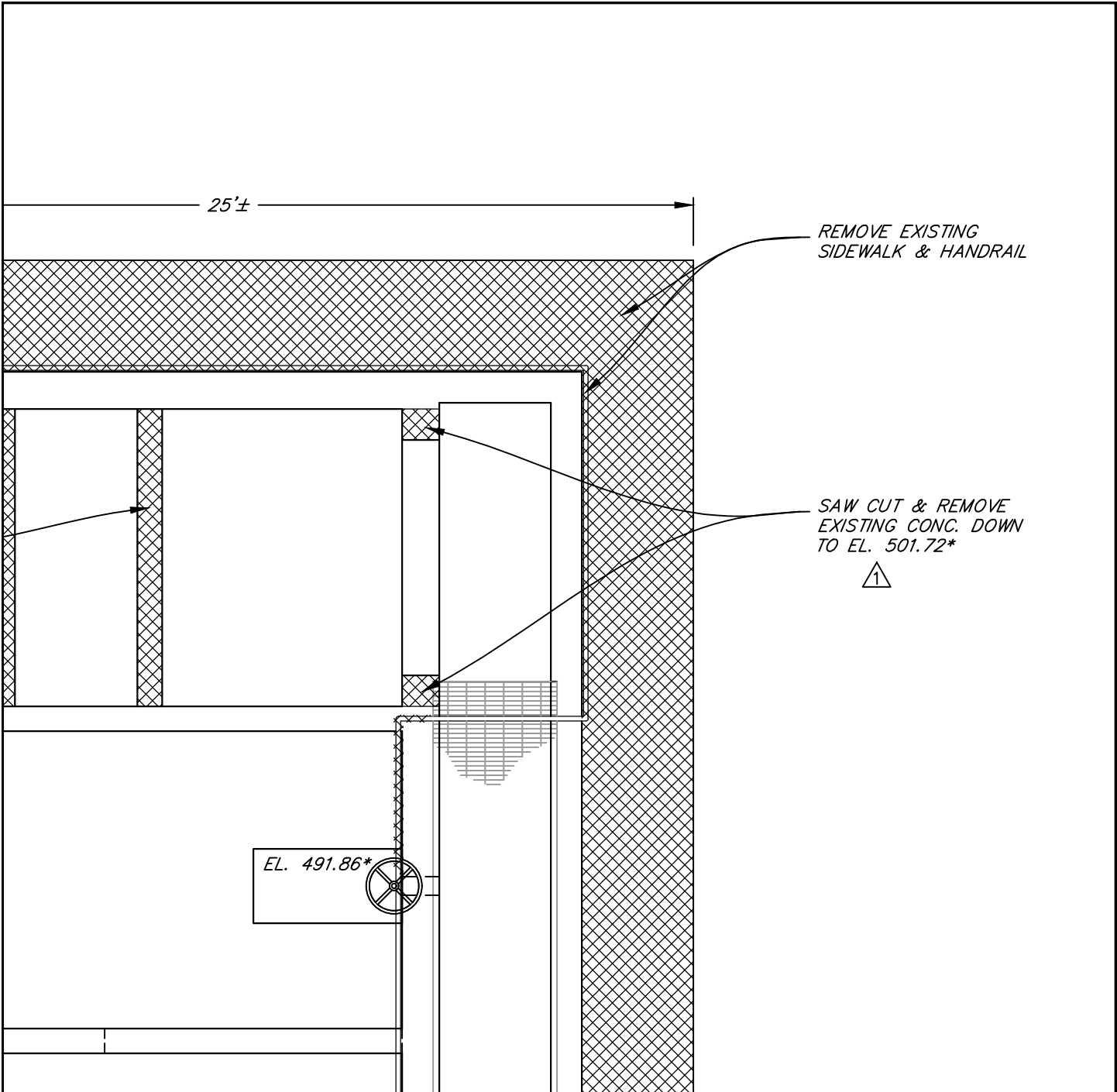
DATE
 FEB. 2019

WAUFORD
 J. R. Wauford & Company, Consulting Engineers, Inc.
 Nashville, Tennessee
 (615)883-3243
 www.jrwauford.com

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 SCL

DRAWN
 AWR

CHECKED
 JGD



SHEET **69** OF **97**

REVISIONS

△ ADDENDUM NO. 3
1/10/20 AWR

SEWER SYSTEM IMPROVEMENTS
CONTRACT NO. 133-2019-01
 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION

**EXISTING CHLORINE CONTACT/UV
 BASIN DEMOLITION PLANS**

FOR
**HOPKINSVILLE WATER
 ENVIRONMENT AUTHORITY**

SCALE
 AS SHOWN

WAUFORD

J. R. Wauford & Company, Consulting Engineers, Inc.
 Nashville, Tennessee
 (615)883-3243
 www.jrwauford.com

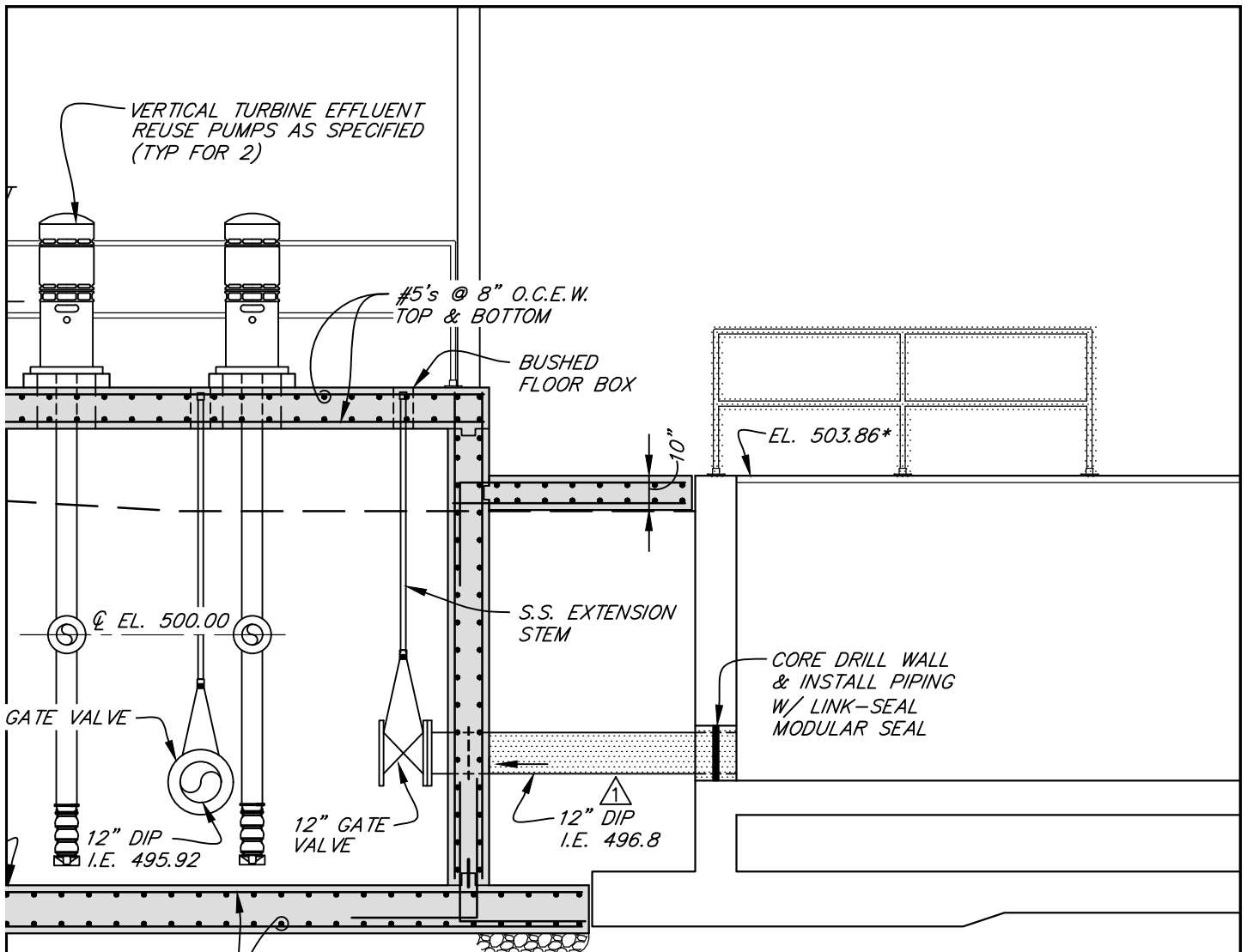
DESIGNED
 SCL

DRAWN
 WCB

CHECKED
 JGD

PROJECT NUMBER
 1983

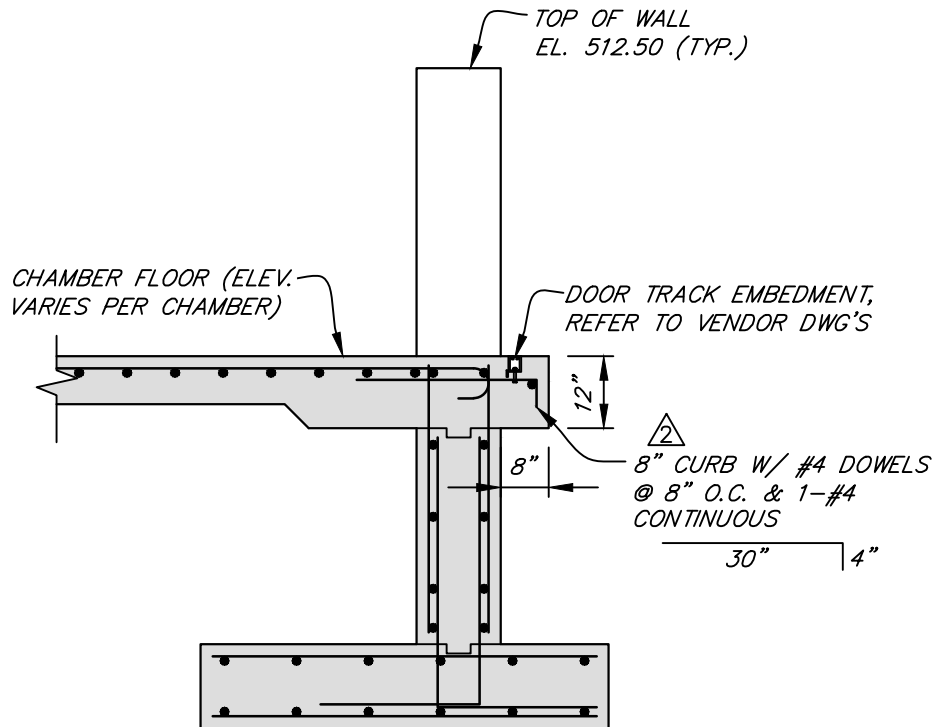
DATE
 FEB. 2019



SECTION H-73

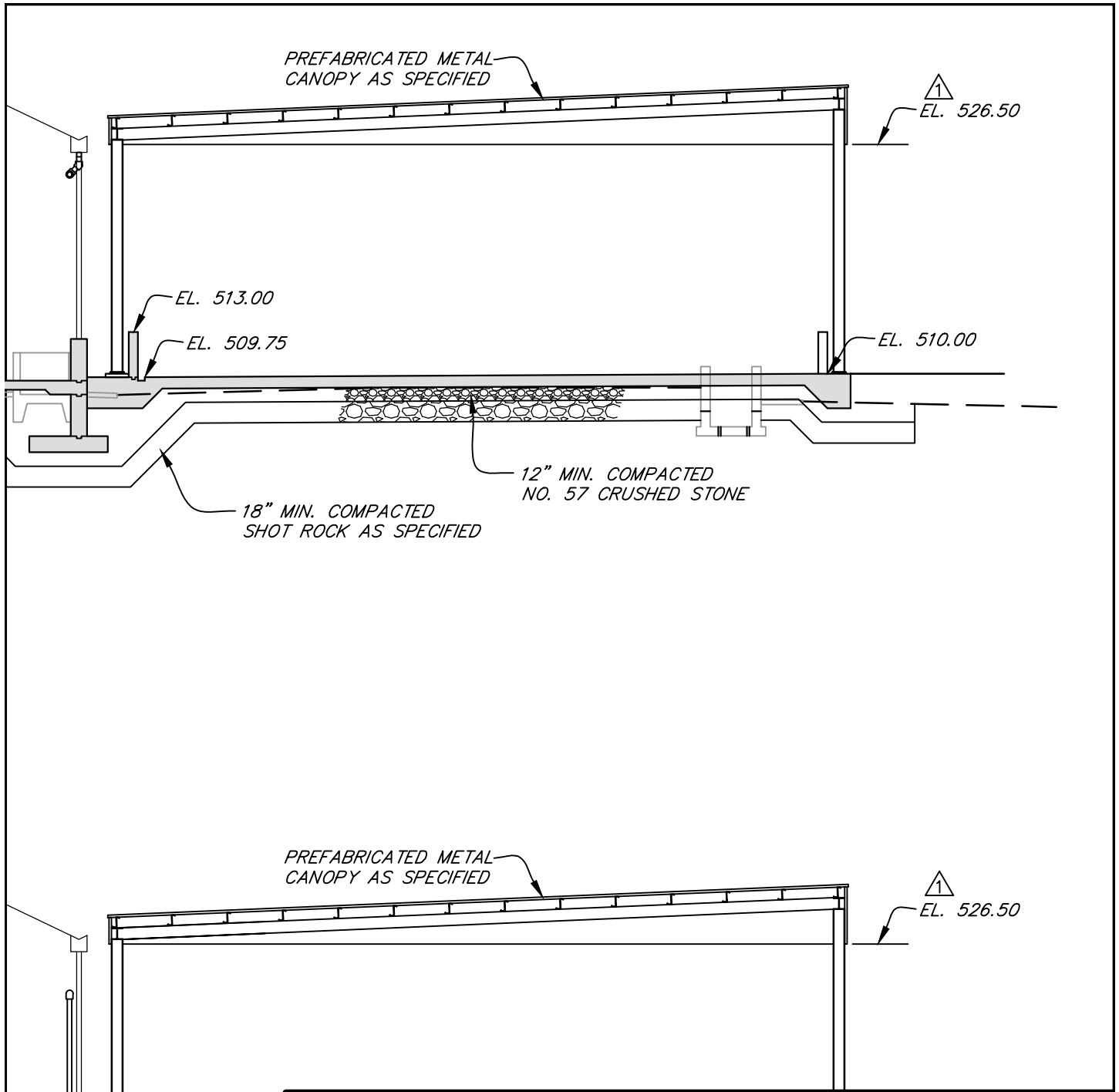
SCALE: 1/4" = 1'-0"

SHEET 73 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
▲ ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
		DISINFECTION CONTACT BASIN	
		SECTIONS AND DETAILS	
		FOR HOPKINSVILLE WATER	
		ENVIRONMENT AUTHORITY	
PROJECT NUMBER		SCALE	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com
1983		AS SHOWN	
DATE		DESIGNED	SCL
FEB. 2019		DRAWN	WCB
		CHECKED	JGD

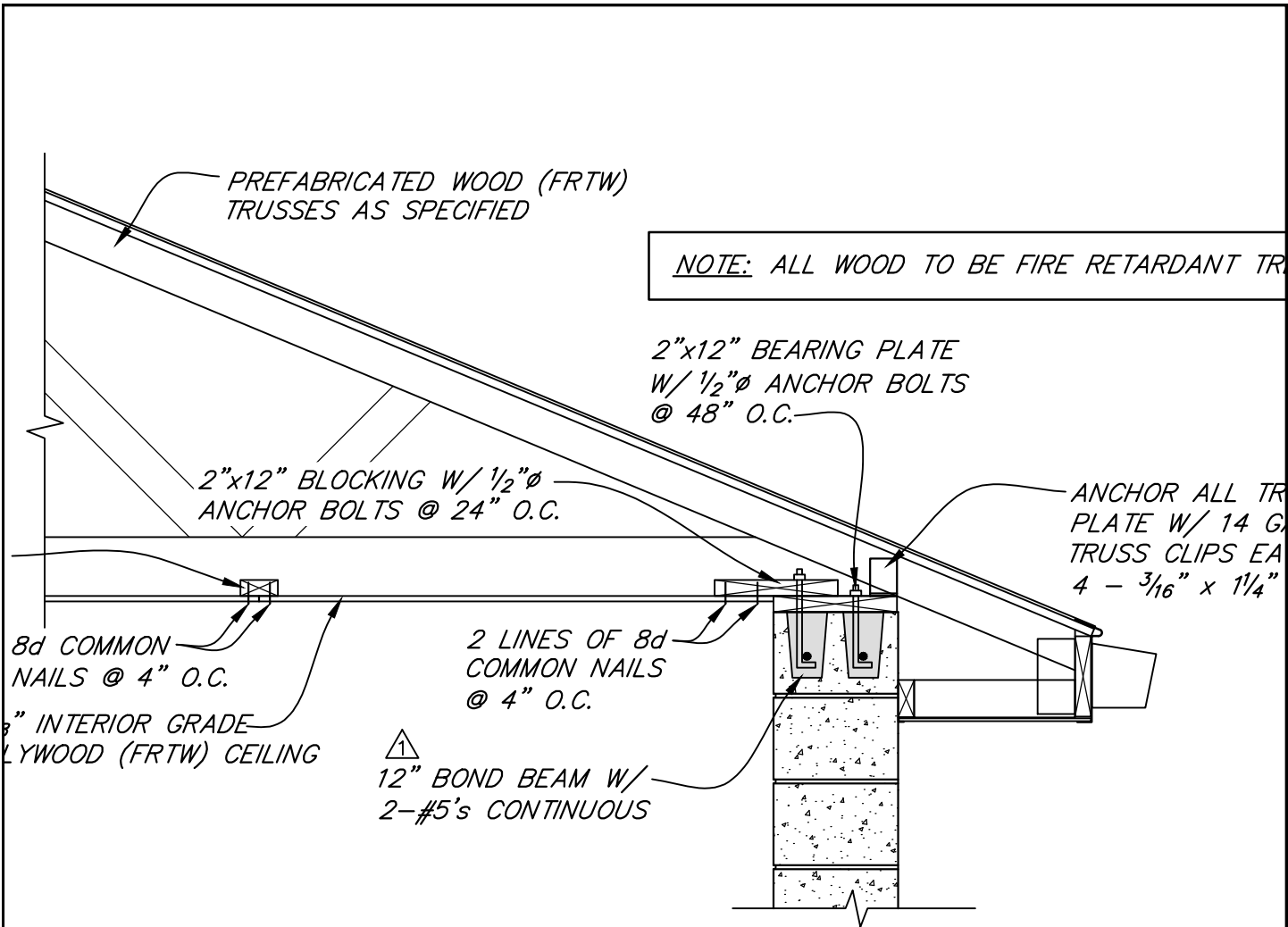


SECTION C-77
 SCALE: 3/8" = 1'-0"

SHEET 77 OF 97		WATER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS △ ADDENDUM NO. 1 11/25/19 AWR △ ADDENDUM NO. 3 1/10/20 AWR		SOLAR DRYING BEDS SECTIONS AND DETAILS	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE AS SHOWN		WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED SCL
JOB NUMBER 1983			DRAWN AWR
DATE FEB. 2019			CHECKED JGD

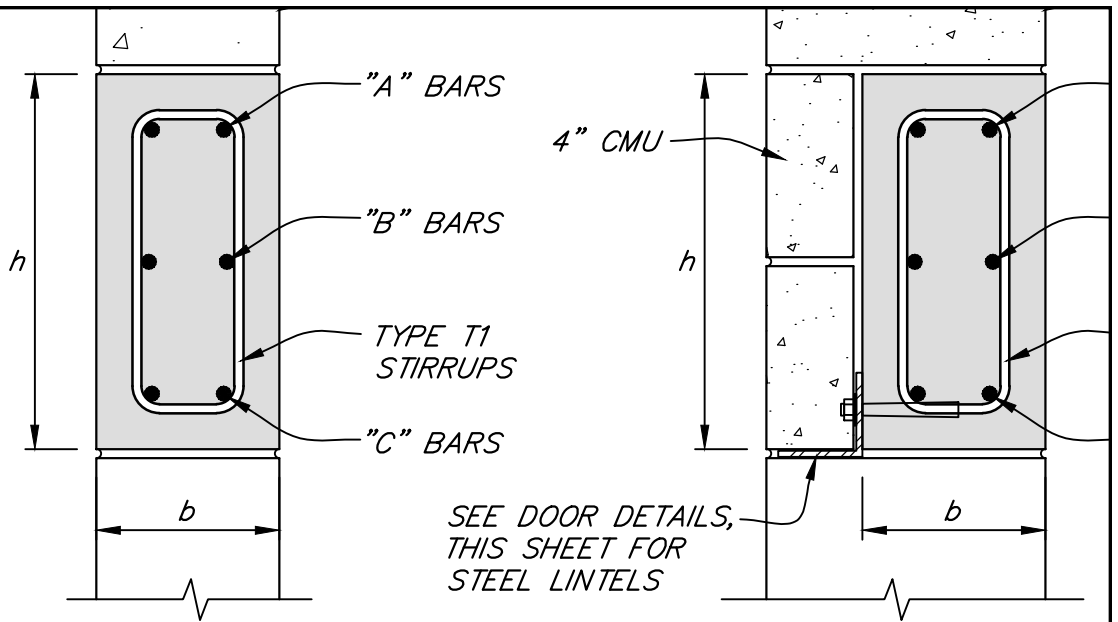


SHEET 79 OF 97		WATER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
ADDENDUM NO. 3		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
1/10/20 AWR		SOLAR DRYING BEDS	
		BUILDING CROSS SECTIONS	
		FOR	
		HOPKINSVILLE WATER	
		ENVIRONMENT AUTHORITY	
SCALE		WAUFORD	DESIGNED
AS SHOWN			SCL
JOB NUMBER	DATE	J. R. Wauford & Company, Consulting Engineers, Inc.	DRAWN
1983	FEB. 2019	Nashville, Tennessee	AWR
		(615)883-3243	CHECKED
		www.jrwauford.com	JGD



TYPICAL TRUSS TO WALL CONNECTION DETAIL
 SCALE: 3/4" = 1'-0"

SHEET 81 OF 97		SEWER SYSTEM IMPROVEMENTS	
REVISIONS		CONTRACT NO. 133-2019-01	
△ ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
		GENERAL STRUCTURAL NOTES AND DETAILS	
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
SCALE	AS SHOWN	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED SCL
PROJECT NUMBER	DATE		DRAWN AWR
1983	FEB. 2019		CHECKED JGD



8 OR 12-INCH CMU WALL

12-INCH CMU WALL

CONCRETE LINTEL SCHEDULE

OPENING WIDTH	DIMENSIONS		REINFORCING		
	h	b	A BARS*	B BARS*	C BARS*
LESS THAN 3'-10"	7-5/8"	7-5/8" OR 12-5/8"	2-#5's	-	2-#5's
4'-0" THRU 7'-0"	15-5/8"	7-5/8" OR 12-5/8"	2-#5's	-	2-#5's
7'-2" THRU 10'-0"	15-5/8"	7-5/8" OR 12-5/8"	2-#7's	-	2-#7's
10'-2" THRU 14'-0"	23-5/8"	7-5/8" OR 12-5/8"	2-#7's	2-#5's	2-#7's

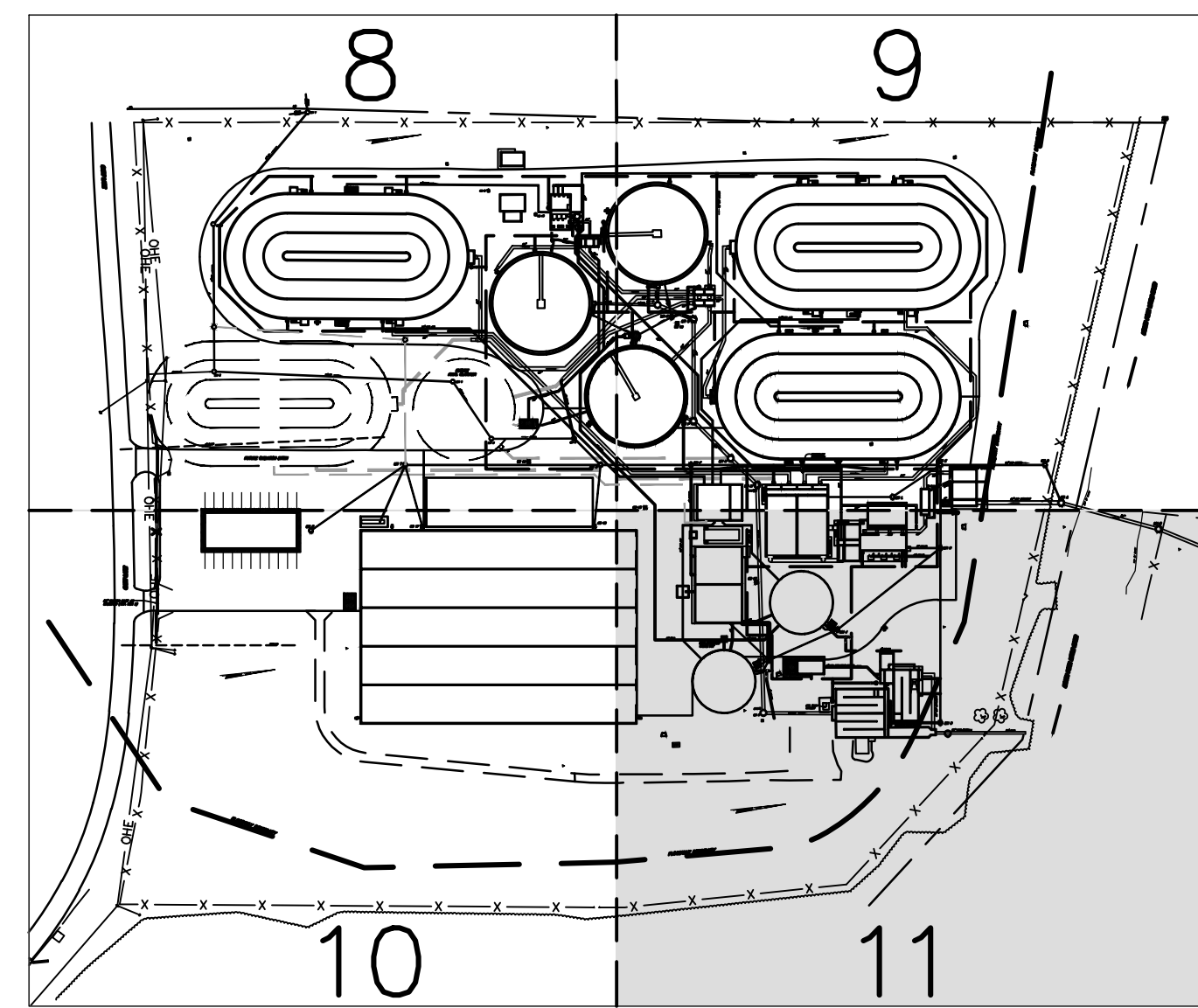
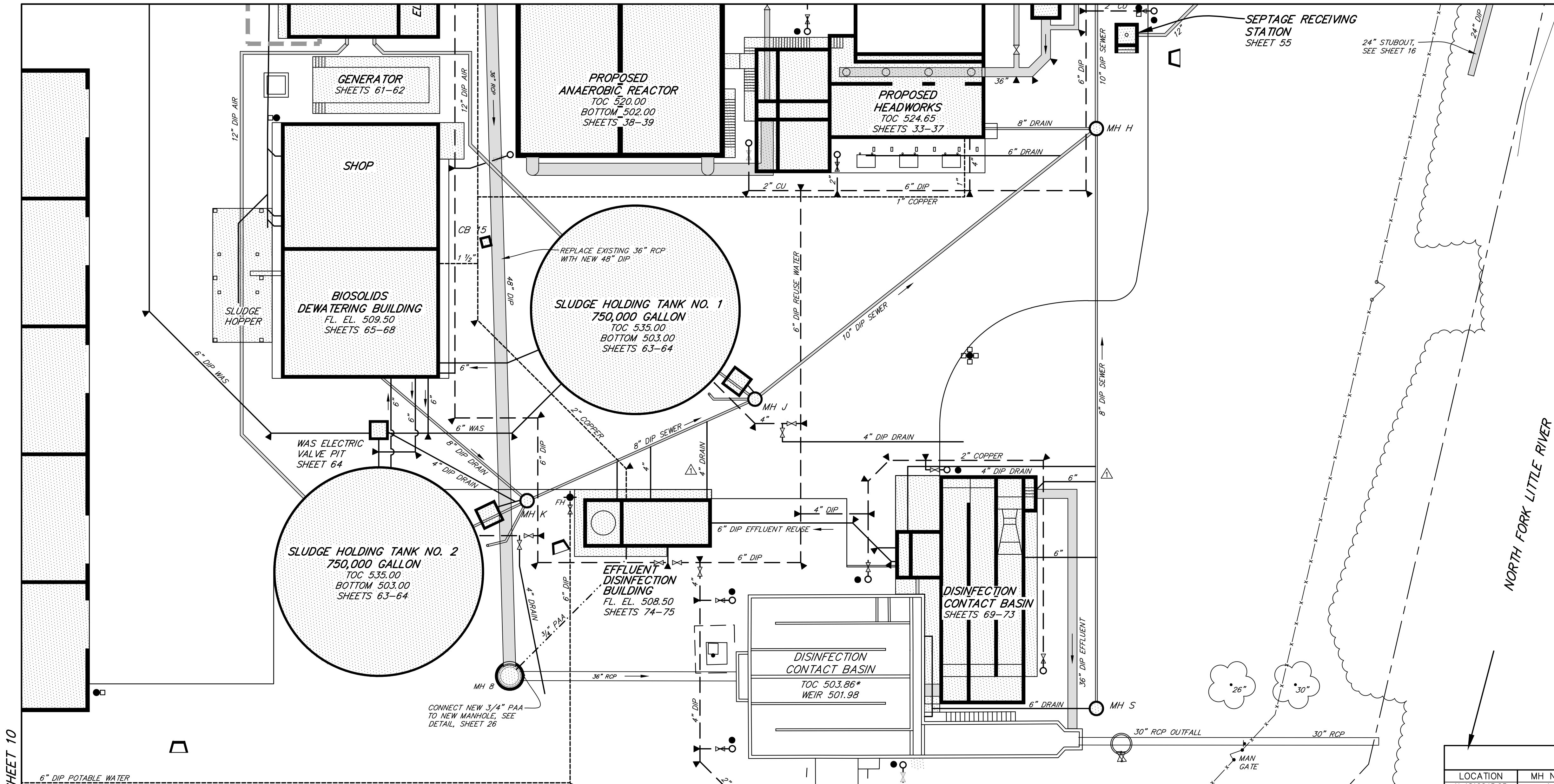
△ * BARS SHALL HAVE 180° HOOKED ENDS AND SHALL EXTEND NOT LESS THAN 24-INCHES PAST EACH SIDE OF OPENING.

CONCRETE LINTEL DETAILS

NO SCALE

SHEET 82 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION		
REVISIONS △ ADDENDUM NO. 3 1/10/20 AWR		DOOR AND WINDOW SCHEDULES AND DETAILS		
		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY		
PROJECT NUMBER 1983		SCALE AS SHOWN	WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	DESIGNED SCL
		DATE FEB. 2019		DRAWN AWR
				CHECKED JGD

MATCHLINE - SEE SHEET 9



SHEET KEY

CONSTRUCTION NOTES

- SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
- SEE PIPING PROFILES SHEETS 17-24.
- 100 YEAR FLOOD ELEVATION 505, FEMA PANEL NO. 342 OF 500 MAP NUMBER 21047C0342C EFFECTIVE DATE SEPTEMBER 17, 2008.
- BACKFILL ALL DITCHES UNDER EXISTING OR PROPOSED PAVEMENT AND SIDEWALKS WITH COMPACTED CRUSHED STONE.
- UNLESS INDICATED OTHERWISE ALL PIPING 12-INCH AND SMALLER FOR BURIED INSTALLATION SHALL BE CLASS 350 DIP. ALL PIPING LARGER THAN 12-INCH FOR BURIED INSTALLATION SHALL BE CLASS 250 DIP.
- ALL BURIED FITTINGS SHALL UTILIZE RETAINER GLANDS AS SPECIFIED. THERE SHALL BE A MINIMUM OF 10'-0" BETWEEN MEGALUG AND ANY UNRESTRAINED JOINT. KICKERS SHALL BE INSTALLED WHERE DEPICTED OR NOTED ON THE PLANS.
- EXISTING PIPING WHICH IS TO BE ABANDONED MAY BE ABANDONED IN PLACE EXCEPT WHERE IT INTERFERES WITH NEW CONSTRUCTION; ALL WALL OPENINGS AND OPEN PIPES SHALL BE PLUGGED WITH CLASS "C" CONCRETE.
- * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
- THE LOCATION OF EXISTING FIELD PIPING IS TAKEN FROM EXISTING PLANS AND FROM FIELD SURVEY BUT IS NOT GUARANTEED. THE CONTRACTOR SHALL LOCATE ALL EXISTING PIPING THAT MAY INTERFERE WITH PROPOSED CONSTRUCTION AND SHALL RELOCATE SAME AS REQUIRED AT NO EXTRA COST.
- ALL VERTICAL BENDS REQUIRED TO INSTALL THE LINES TO THE ELEVATIONS SHOWN ON THE PLANS SHALL BE FURNISHED BY THE CONTRACTOR.

NORTH FORK LITTLE RIVER

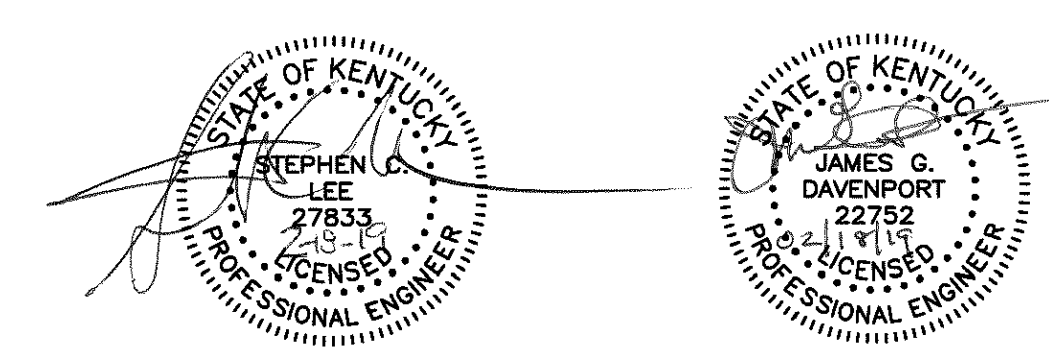
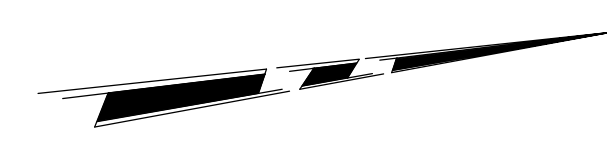
MANHOLE ELEVATION TABLE

LOCATION	MH NO.	RIM ELEV.	INVERT ELEV.	REMARKS
N 1816245.63 E 1123049.15	1	504.96	500.74 IN 8" PVC (S) 500.74 OUT 10" DIP	
N 1816130.67 E 1123159.60	2	512.08	500.10 IN 10" DIP 500.16 OUT 10" DIP	
N 1816114.46 E 1123319.25	3	503.72	500.17 IN 3" PVC (M) 499.74 IN 10" DIP 499.74 OUT 10" DIP	
N 1816371.82 E 1123357.69	4	505.03	499.08 IN 10" DIP 498.99 OUT 8" PVC	
N 1816406.93 E 1123424.06	5	506.93	501.18 IN 8" DIP (S) 498.52 IN 8" PVC (M) NOT MEASURED IN 8" PVC (SW) 498.38 OUT 8" PVC	TO BE PLUGGED TO BE PLUGGED
N 1816496.53 E 1123453.27	6	507.15	502.75 IN 8" DIP (SE) 500.65 IN 8" DIP (S) 499.00 IN 8" DIP (S) 497.65 IN 8" DIP (E) 496.65 IN 8" PVC (MS) 495.90 OUT 12" RCP	TO BE PLUGGED TO BE PLUGGED TO BE PLUGGED TO BE PLUGGED PLUG EXISTING OUTLET
N 1816720.64 E 1123457.71	7	506.73	495.90 OUT NEW 12" RCP 495.33 IN 12" RCP	TO BE ABANDONED/RAZED
N 1816670.01 E 1123752.63	8	504.67	498.42 IN 36" RCP MH G 498.32 OUT 36" RCP NEW TOP EL. 506.67	TO BE ABANDONED/RAZED TO BE REPLACED W/ 48" DIP REPLACE W/ NEW 8'-0" MANHOLE
N 1816701.58 E 1123350.45	9	515.93	499.62 IN 36" RCP 499.62 OUT 36" RCP	TO BE ABANDONED/RAZED
N 1816602.45 E 1123298.44	10	510.94	500.17 IN 24" DIP (CLARIFIER #1) 500.17 IN 24" DIP (CLARIFIER #2) 500.17 OUT 36" RCP	
N 1816685.71 E 1123430.35	11	505.03	502.87 IN 8" DIP 502.87 OUT 8" DIP	TO BE ABANDONED/RAZED
N 1816693.51 E 1123361.27	12	514.73	502.97 IN 8" DIP 502.97 OUT 8" DIP	TO BE ABANDONED/RAZED
N 1816618.09 E 1123332.57	13	511.54	503.45 IN 8" DIP (CLARIFIER #1) 503.45 IN 8" DIP (CLARIFIER #2)	TO BE ABANDONED/RAZED
N 1817016.53 E 1123559.09	MH A	494.0	469.40 IN NEW 36" DIP MH B 463.70 IN NEW 12" DIP MH D 471.20 IN NEW 24" DIP STURBOUT 469.20 OUT NEW 48" DIP SPS	NEW 6'-0" MANHOLE
N 1817119.07 E 1123598.89	MH B	495.0	469.86 IN NEW 36" DIP MH C 469.71 OUT NEW 36" DIP MH A	NEW 6'-0" MANHOLE
N 1817196.53 E 1123640.94	MH C	495.0	464.82 IN 48" RCP (EXIST.) 464.82 OUT NEW 36" DIP MH B	NEW 7'-0" MANHOLE
N 1817003.49 E 1123516.22	MH D	497.0	484.30 IN NEW 12" DIP MH E 484.13 OUT NEW 12" DIP MH A	NEW 4'-0" MANHOLE
N 1816890.14 E 1123504.14	MH E	510.89	485.60 IN 10" DIP MH I 496.88 IN 8" DIP MH L 489.87 IN NEW 12" DIP MH F 485.40 OUT NEW 12" DIP MH D	NEW 4'-0" MANHOLE
N 1816620.08 E 1123475.36	MH F	511.08	492.75 IN NEW 12" DIP MH G IN NEW 4" BLDG SERVICE	NEW 4'-0" MANHOLE
N 1816522.09 E 1123464.92	MH G	511.08	492.65 OUT NEW 12" DIP MH E 505.2 IN NEW 8" DIP CB 16 499.9 IN NEW 4" DIP DRAIN 495.0 IN NEW 4" DIP DRAIN 493.91 IN NEW 12" DIP MH T 495.53 IN NEW 12" DIP MH 6 493.70 OUT NEW 12" DIP MH F	NEW 4'-0" MANHOLE
N 1816880.54 E 1123594.27	MH H	508.58	501.5 IN NEW 8" DIP HEADWORKS 499.48 IN NEW 10" DIP MH J 486.57 IN NEW 8" DIP MH S 486.47 OUT NEW 10" DIP MH E	NEW 4'-0" MANHOLE
N 1816759.66 E 1123670.75	MH J	508.58	500.08 IN NEW 8" DIP DECAUT 503.5 IN NEW 8" DIP OVERFLOW 502.8 IN NEW 4" DIP DRAIN 500.97 IN NEW 8" DIP MH K 500.87 OUT NEW 10" DIP MH I	NEW 4'-0" MANHOLE
N 1816681.76 E 1123696.01	MH K	508.58	502.8 IN NEW 8" DIP DRAIN 503.5 IN NEW 8" DIP OVERFLOW 502.8 IN NEW 4" DIP DRAIN 506.08 IN NEW 8" DIP DECAUT 501.75 OUT NEW 8" DIP MH J	NEW 4'-0" MANHOLE
N 1816834.64 E 1123533.34 N 1816689.48 E 1123504.66	MH L MH M	509.4 510.0	497.47 OUT NEW 8" DIP MH E 489.23 IN NEW 48" DIP MH P 499.13 OUT EXIST. 36" RCP MH B 499.13 OUT NEW 48" DIP MH 8	NEW 4'-0" MANHOLE TO BE REPLACED W/ 48" DIP
N 1816627.84 E 1123426.32	MH P	510.56	502.50 IN NEW 24" DIP FC 3 499.62 IN NEW 36" DIP MH Q 499.52 OUT NEW 48" DIP MH 4	NEW 6'-0" MANHOLE
N 1816639.60 E 1123517.93	MH Q	512.38	499.96 IN EXIST. 36" RCP MH 10 499.86 OUT NEW 36" DIP MH 9	NEW 6'-0" MANHOLE
N 1816616.14 E 1123513.00	MH R	511.0	503.73 IN EXIST. 8" DIP SCUM 503.5 IN NEW 4" DIP DRAIN 497.50 OUT NEW 8" DIP SCUM PS	NEW 4'-0" MANHOLE
N 1816860.36 E 1123763.64 N 1816309.14 E 1123442.23	MH S MH T	497.0 509.1	492.20 IN NEW 8" DIP DRAIN 497.50 OUT NEW 8" DIP MH H 497.50 IN NEW 8" DIP MH U 505.4 IN NEW 8" DIP FROM CB 17 496.50 IN FUTURE 10"	NEW 4'-0" MANHOLE NEW 4'-0" MANHOLE
N 1816210.33 E 1123456.76 N 1816110.79 E 1123446.17	MH U MH V	508.0 507.8	496.01 OUT NEW 12" DIP MH G 499.52 IN NEW 12" DIP MH V 499.42 OUT NEW 8" DIP MH T IN BLDG SERVICE LINE	NEW 4'-0" MANHOLE NEW 4'-0" MANHOLE
N 1816689.89 E 1123291.28 N 1816674.67 E 1123168.22 N 1816455.98 E 1123149.15 N 1816469.16 E 1123181.20	MH W MH X MH Y MH Z	510.8 511.3 511.2 511.6	505.7 IN NEW 8" PVC MH X 506.3 IN NEW 8" PVC MH Y 506.3 OUT NEW 8" PVC MH W 507.3 IN NEW 8" PVC MH X 507.3 OUT NEW 8" PVC MH Z 507.5 OUT NEW 8" PVC MH Y	CHEMICAL FEED CONDUIT MANHOLE CHEMICAL FEED CONDUIT MANHOLE CHEMICAL FEED CONDUIT MANHOLE CHEMICAL FEED CONDUIT MANHOLE

CATCH BASIN ELEVATION TABLE

LOCATION	CB NO.	TOP ELEV.	INVERT ELEV.	REMARKS
N 1816807.66 E 1123438.64	1	503.78	500.28 IN 24" RCP 500.28 OUT 24" RCP	TO BE ABANDONED/RAZED
N 1816616.55 E 1123364.86	2	510.51	507.03 IN 24" RCP 502.12 OUT 24" RCP	TO BE ABANDONED/RAZED
N 1816671.53 E 1123314.19	3	510.69	507.71 IN 15" RCP 507.71 IN 18" RCP 507.71 OUT 24" RCP	TO BE ABANDONED/RAZED
N 1816675.52 E 1123248.15	4	510.53	506.60 OUT 15" RCP	TO BE ABANDONED/RAZED
N 1816598.39 E 1123305.07	5	510.66	507.91 IN 18" RCP 497.91 OUT 18" RCP	TO BE ABANDONED/RAZED
N 1816527.80 E 1123271.44	6	510.66	508.33 IN 15" RCP 508.33 OUT 18" RCP	TO BE ABANDONED/RAZED
N 1816534.14 E 1123184.99	7	510.33	508.38 OUT 15" RCP	TO BE ABANDONED/RAZED
N 1816923.50 E 1123446.10	7A	503.80	495.20 IN 12" DIP 495.20 OUT 12" DIP	TO BE ABANDONED/RAZED
N 1816432.25 E 1123165.14	8	510.64	508.22 IN 15" RCP (CB 9) 508.22 IN 15" RCP (CB 10)	TO BE PLUGGED
N 1816419.86 E 1123243.70	9	510.73	508.75 OUT 15" RCP	TO BE ABANDONED/RAZED
N 1816480.60 E 1123186.26	10	510.63	508.65 OUT 15" RCP	TO BE ABANDONED/RAZED
N 1816672.23 E 1123186.26	11	504.64	501.14 OUT 12" RCP	TO BE ABANDONED/RAZED
N 1816621.31 E 1123202.62	12	510.0	506.0 OUT NEW 12" RCP	NEW CATCH BASIN
N 1816655.44 E 1123516.44	13	509.0	502.5 IN NEW 12" RCP CB 14 502.4 OUT NEW 18" RCP	NEW CATCH BASIN
N 1816444.64 E 1123452.95	14	509.5	506.0 OUT NEW 12" RCP	NEW CATCH BASIN
N 1816677.33 E 1123610.07	15	509.0	505.6 OUT NEW 18" RCP	NEW CATCH BASIN
N 1816508.26 E 1123508.69	16	509.5	503.33 CATCH BASIN 506.5 IN NEW 8" DIP 506.33 OUT NEW 8" DIP	NEW CATCH BASIN
N 1816502.09 E 1123508.69	17	509.5	503.33 CATCH BASIN 506.5 IN NEW 8" DIP 506.33 OUT NEW 8" DIP	NEW CATCH BASIN
N 1816646.17 E 1123323.27	18	510.3	503.6 IN NEW 18" RCP 502.5 OUT NEW 18" RCP	NEW CATCH BASIN

MATCHLINE - SEE SHEET 10



SHEET 11 OF 97
 REVISIONS
 ADDENDUM NO. 3
 1/10/20 AWR

SEWER SYSTEM IMPROVEMENTS
 CONTRACT NO. 133-2019-01
 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION

SITE PIPING PLAN
 NORTHEAST QUADRANT

FOR
 HOPKINSVILLE WATER
 AUTHORITY

SCALE
 1" = 20'

PROJECT NUMBER
 1983

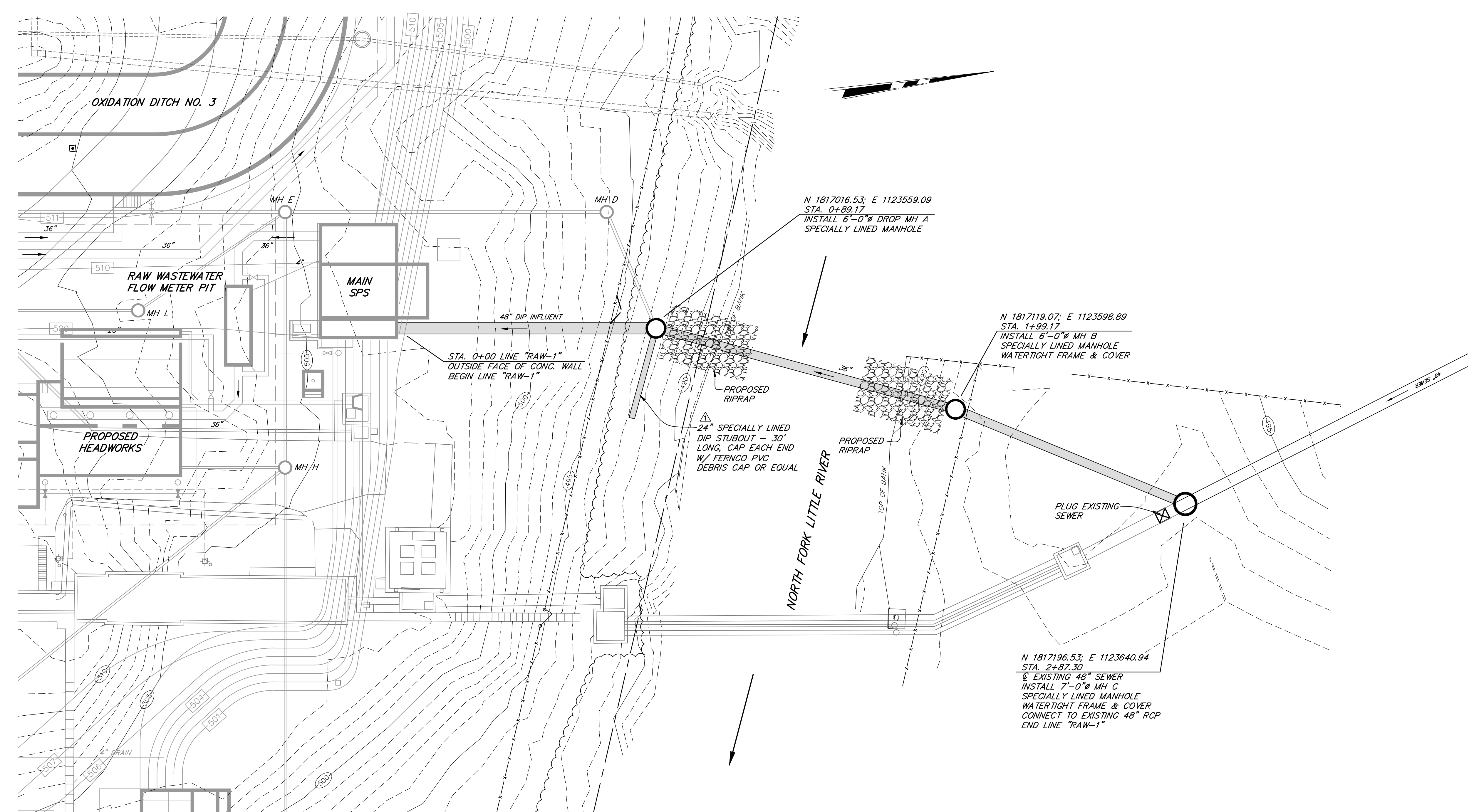
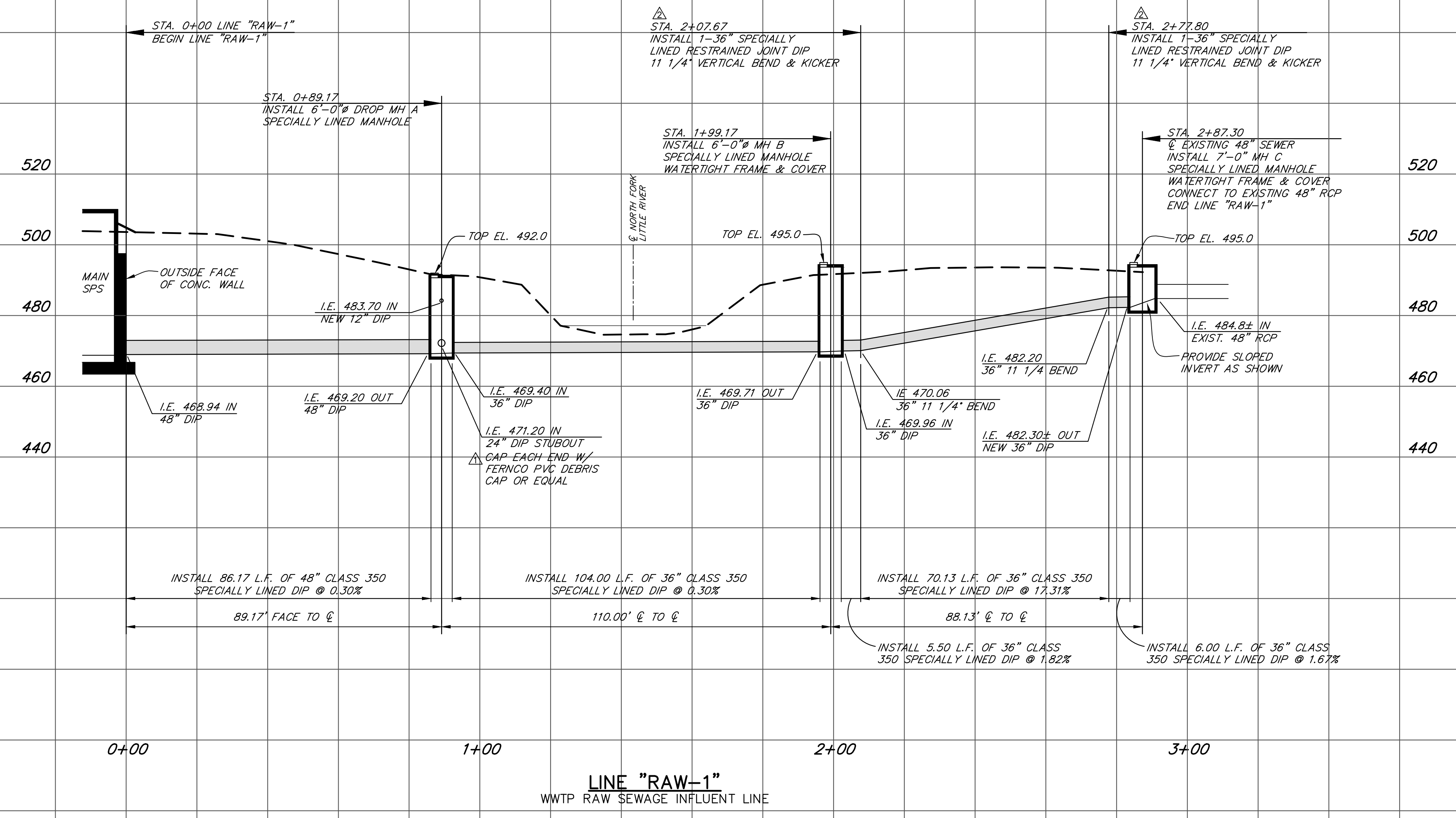
DATE
 FEB. 2019

DESIGNED
 SCL

DRAWN
 AWR

CHECKED
 JGD

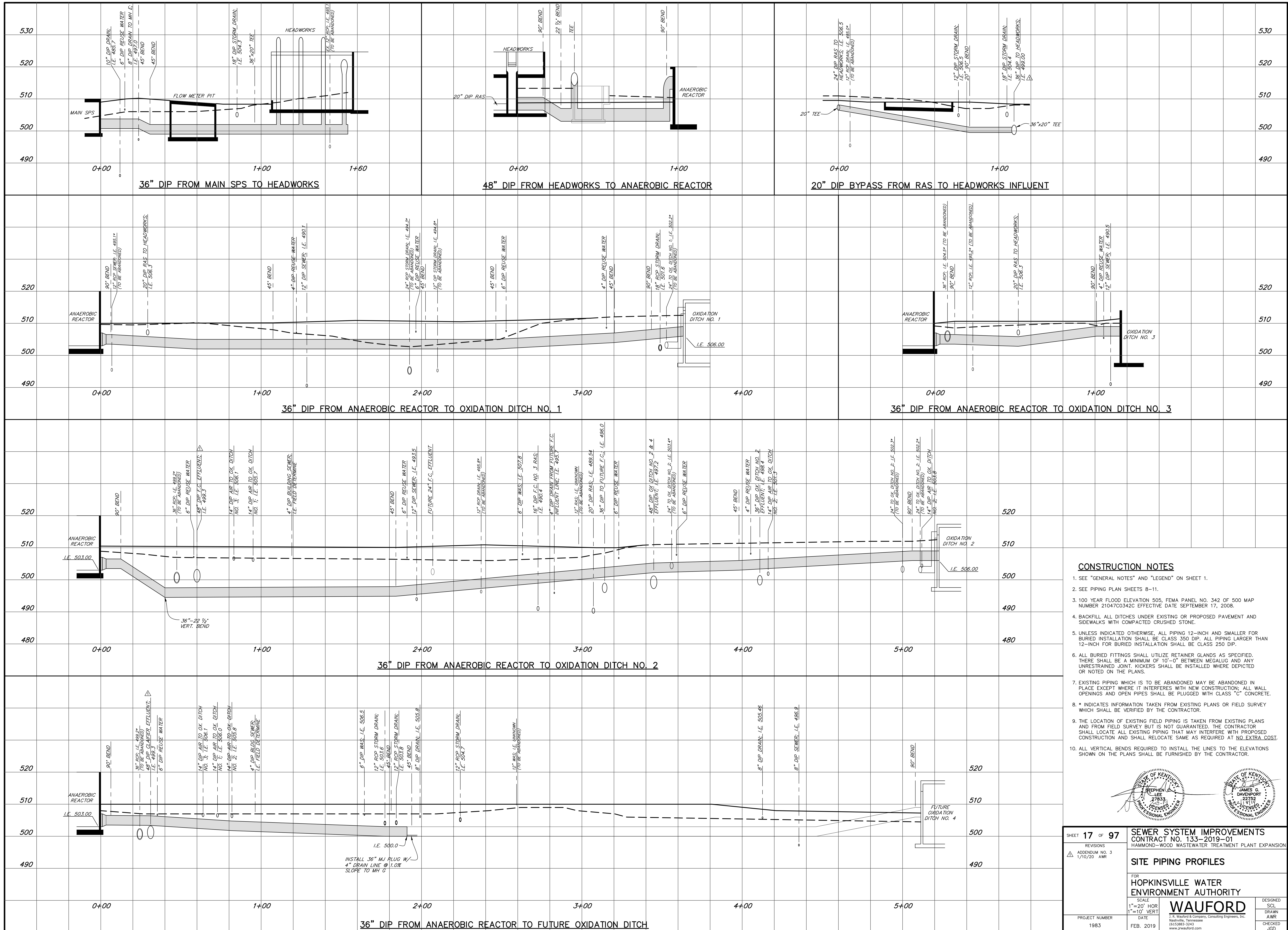
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 J. S. Wauford & Company, Consulting Engineers, Inc.
 Nashville, Tennessee
 (615) 883-3243
 www.jswauford.com



NOTE
SEE SITE PLANS FOR
OTHER ASSOCIATED
WORK

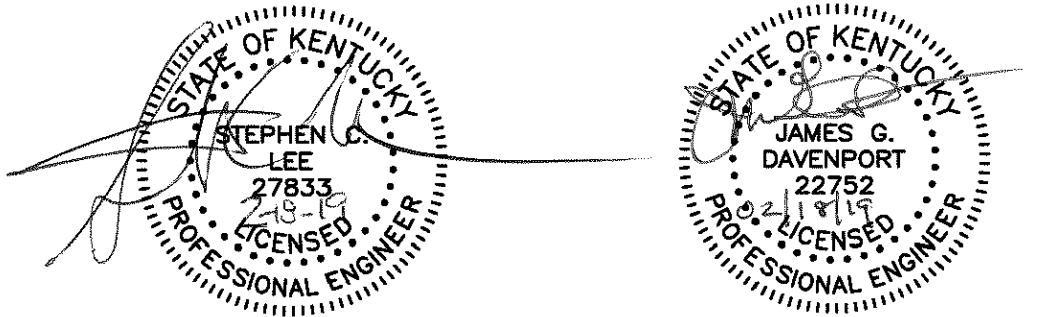
- ### CONSTRUCTION NOTES
- SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
 - SEE PIPING PROFILES SHEETS 17-24.
 - 100 YEAR FLOOD ELEVATION 505, FEMA PANEL NO. 342 OF 500 MAP NUMBER 21047C0342C EFFECTIVE DATE SEPTEMBER 17, 2008.
 - BACKFILL ALL DITCHES UNDER EXISTING OR PROPOSED PAVEMENT AND SIDEWALKS WITH COMPACTED CRUSHED STONE.
 - UNLESS INDICATED OTHERWISE, ALL PIPING 12-INCH AND SMALLER FOR BURIED INSTALLATION SHALL BE CLASS 350 DIP. ALL PIPING LARGER THAN 12-INCH FOR BURIED INSTALLATION SHALL BE CLASS 250 DIP.
 - ALL BURED FITTINGS SHALL UTILIZE RETAINER CLANDS AS SPECIFIED. KICKERS SHALL BE INSTALLED WHERE DEPICTED OR NOTED ON THE PLANS.
 - EXISTING PIPING WHICH IS TO BE ABANDONED MAY BE ABANDONED IN PLACE EXCEPT WHERE IT INTERFERES WITH NEW CONSTRUCTION. ALL WALL OPENINGS AND OPEN PIPES SHALL BE PLUGGED WITH CLASS "C" CONCRETE.
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SHEET 16 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS		LINE "RAW-1" RAW WASTEWATER INFLUENT LINE	
ADDENDUM NO. 1 11/25/19 AWR		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
ADDENDUM NO. 3 1/10/20 AWR		SCALE: 1"=20' HOR 1"=20' VER	
PROJECT NUMBER 1983	DATE FEB. 2019	DESIGNED JCD DRAWN AWR CHECKED JCD	
		 WAUFORD J. R. Wauford & Company, Consulting Engineers, Inc. Hopkinsville, Tennessee (615) 883-3243 www.jrwauford.com	



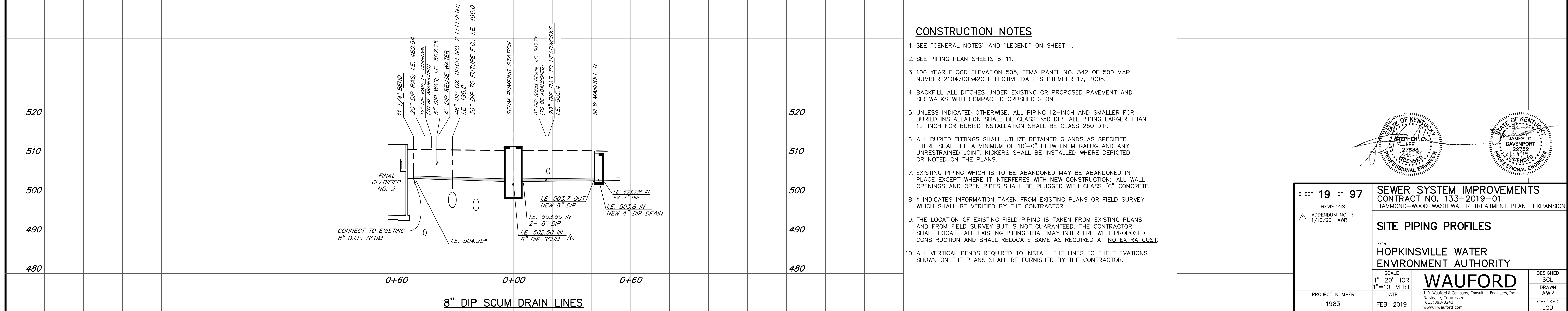
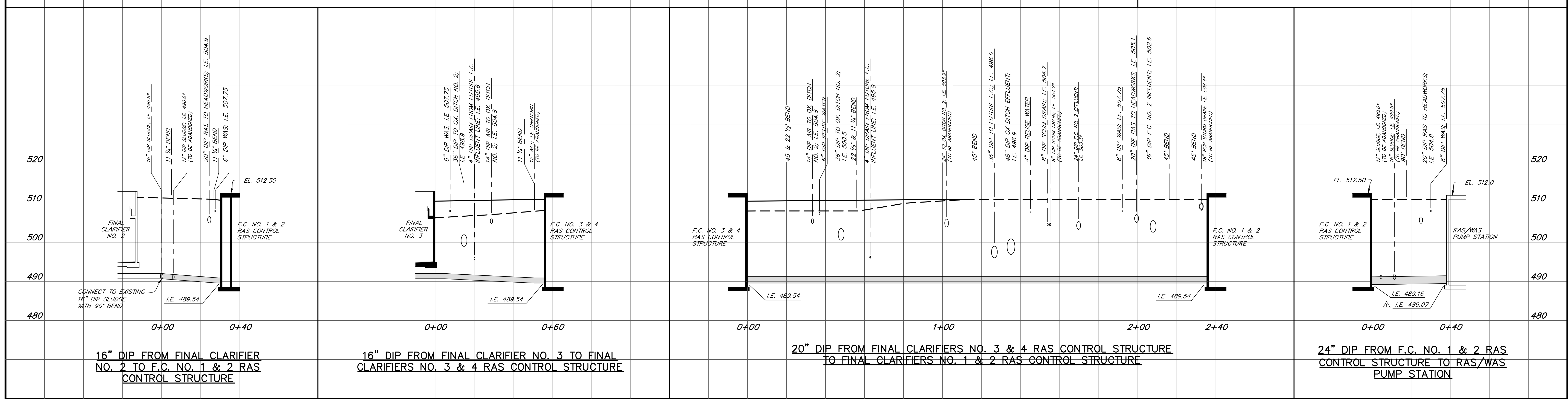
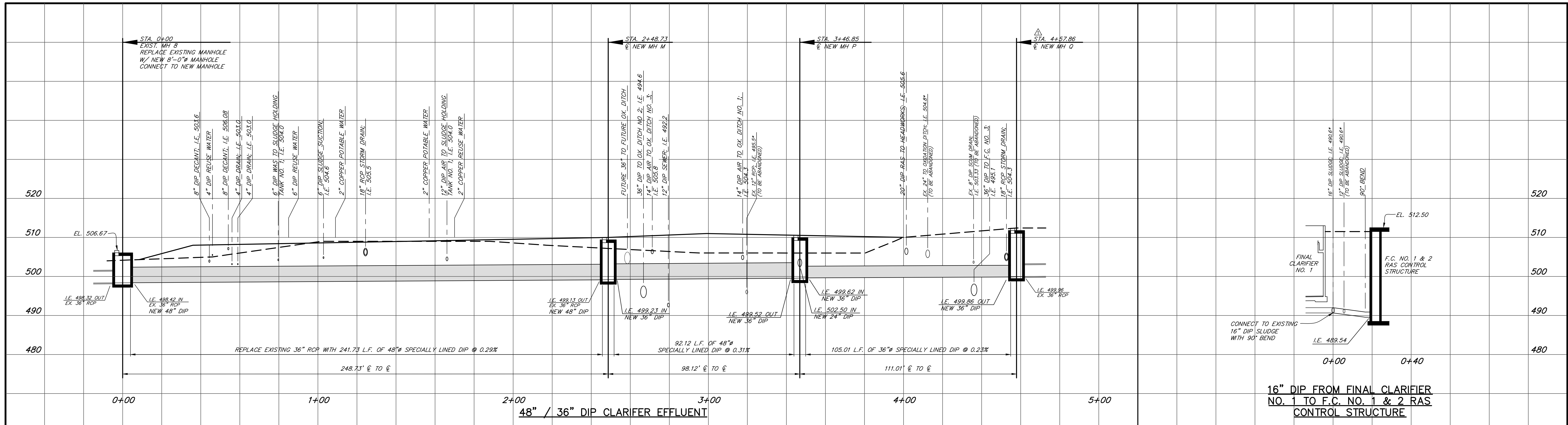
CONSTRUCTION NOTES

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- 100 YEAR FLOOD ELEVATION 505, FEMA PANEL NO. 342 OF 500 MAP NUMBER 21047C0342C EFFECTIVE DATE SEPTEMBER 17, 2008.
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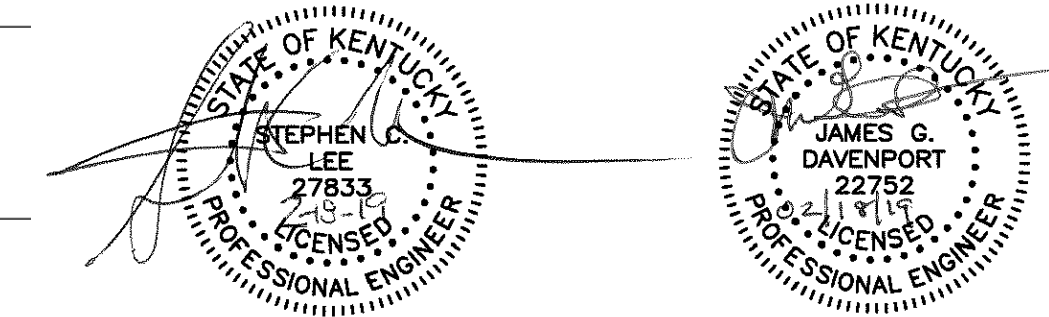


SHEET 17 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01	
REVISIONS ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
SITE PIPING PROFILES			
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY			
SCALE 1"=20' HOR 1"=10' VERT	DATE FEB. 2019	DESIGNED SCL	DRAWN AWR
PROJECT NUMBER 1983	DATE FEB. 2019	CHECKED JGD	DESIGNED SCL

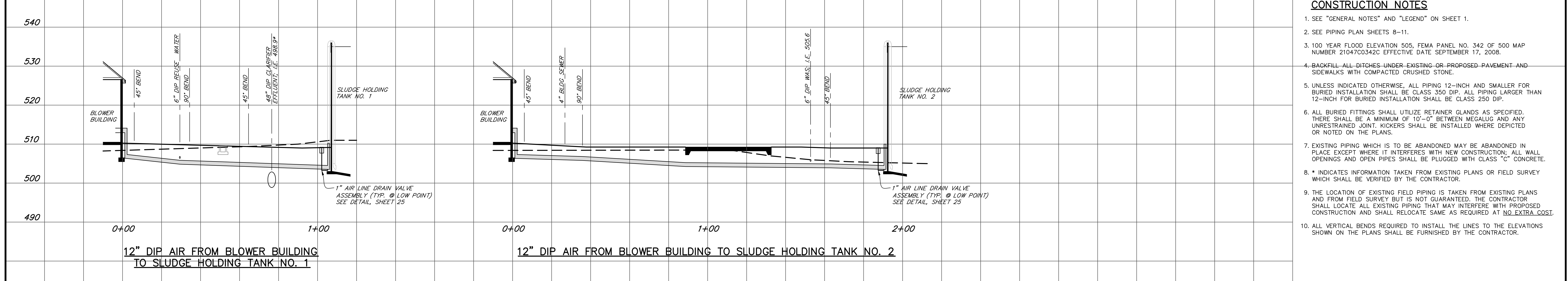
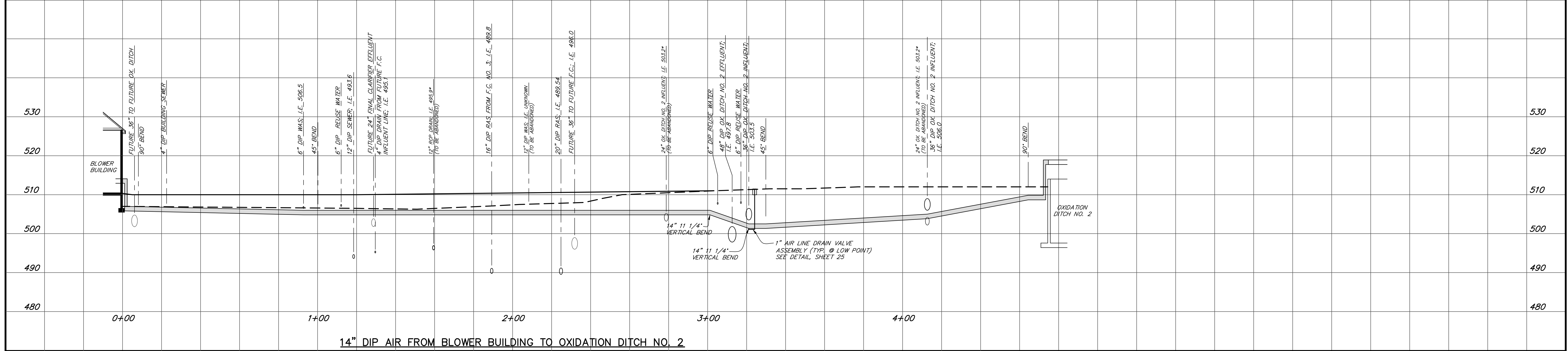
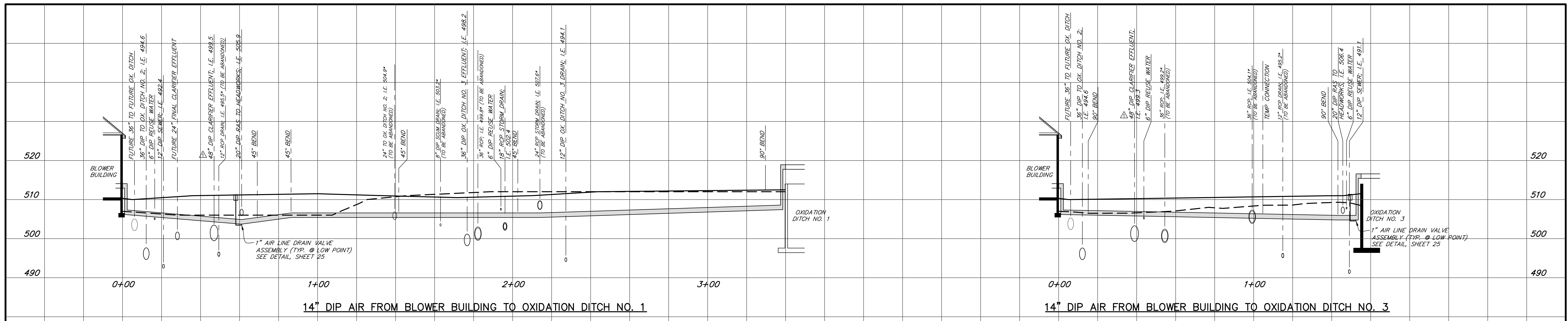
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Nashville, Tennessee
(615) 883-3243
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- ### CONSTRUCTION NOTES
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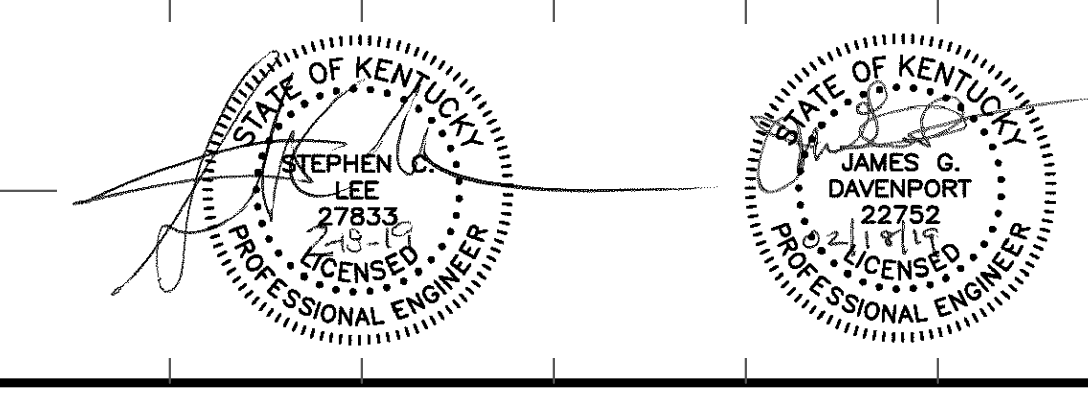


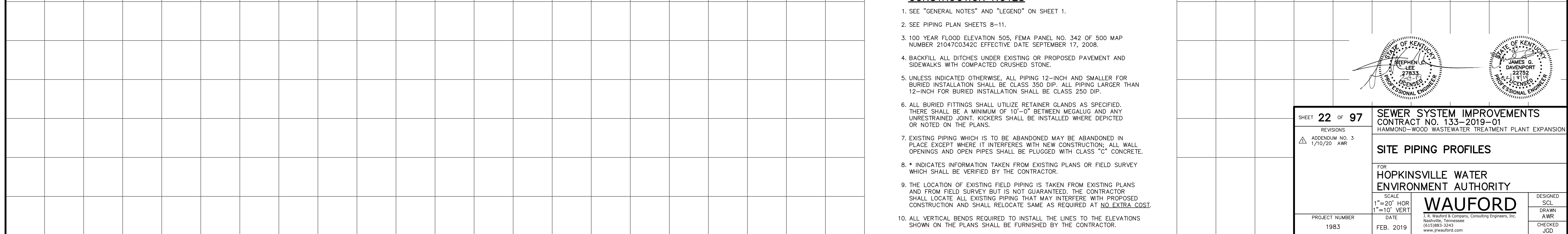
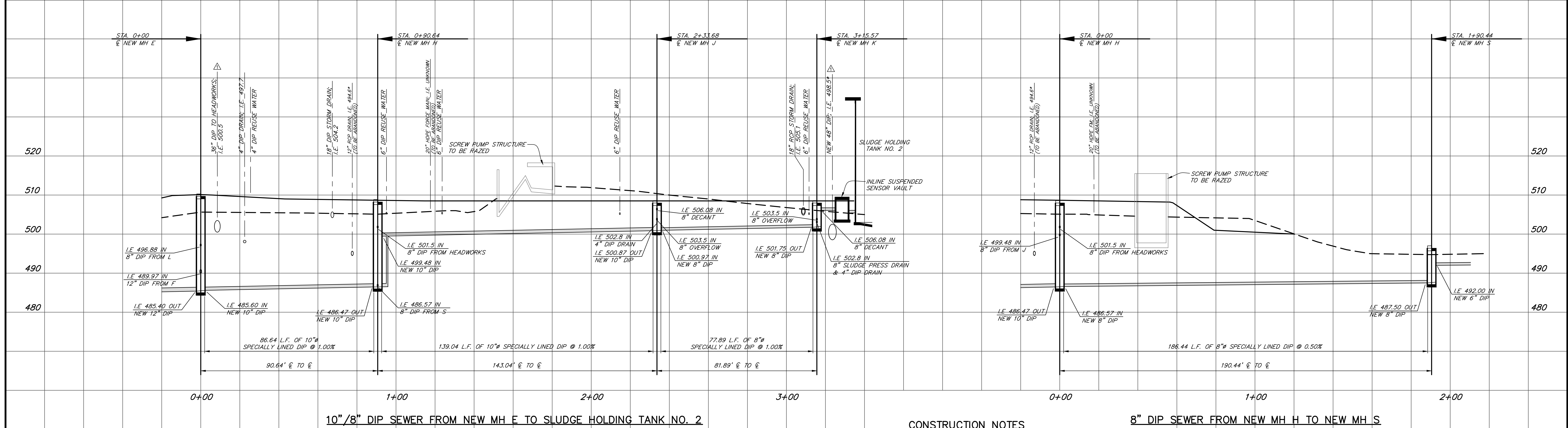
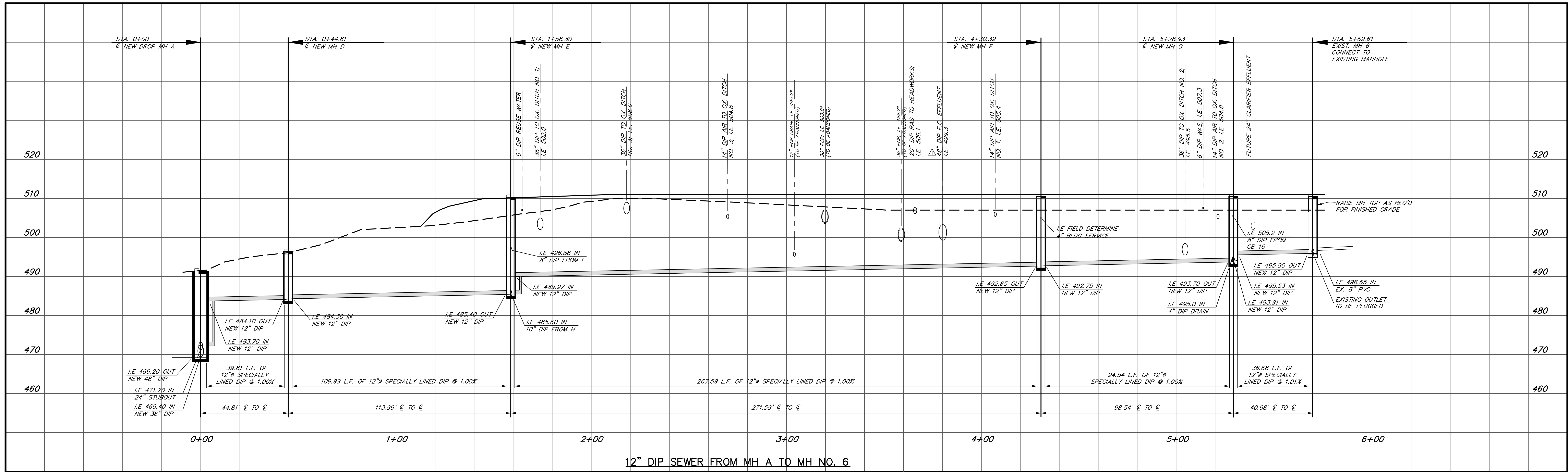
SHEET 19 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01	
REVISIONS ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
SITE PIPING PROFILES			
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY			
SCALE 1"=20' HOR 1"=10' VERT		DESIGNED SCL	
PROJECT NUMBER 1983		DRAWN AWR	
DATE FEB. 2019		CHECKED JGD	
WAUFORD		J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	



- CONSTRUCTION NOTES**
- SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
 - SEE PIPING PLAN SHEETS 8-11.
 - 100 YEAR FLOOD ELEVATION 505, FEMA PANEL NO. 342 OF 500 MAP NUMBER 21047C0342C EFFECTIVE DATE SEPTEMBER 17, 2008.
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SHEET 21 OF 97	SEWER SYSTEM IMPROVEMENTS	
	CONTRACT NO. 133-2019-01	
REVISIONS	HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
ADDENDUM NO. 3	SITE PIPING PROFILES	
1/10/20 AWR	FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
	SCALE 1"=20' HOR 1"=10' VERT	
PROJECT NUMBER	DATE	DESIGNED SCL
1983	FEB. 2019	DRAWN AWR
		CHECKED JGD

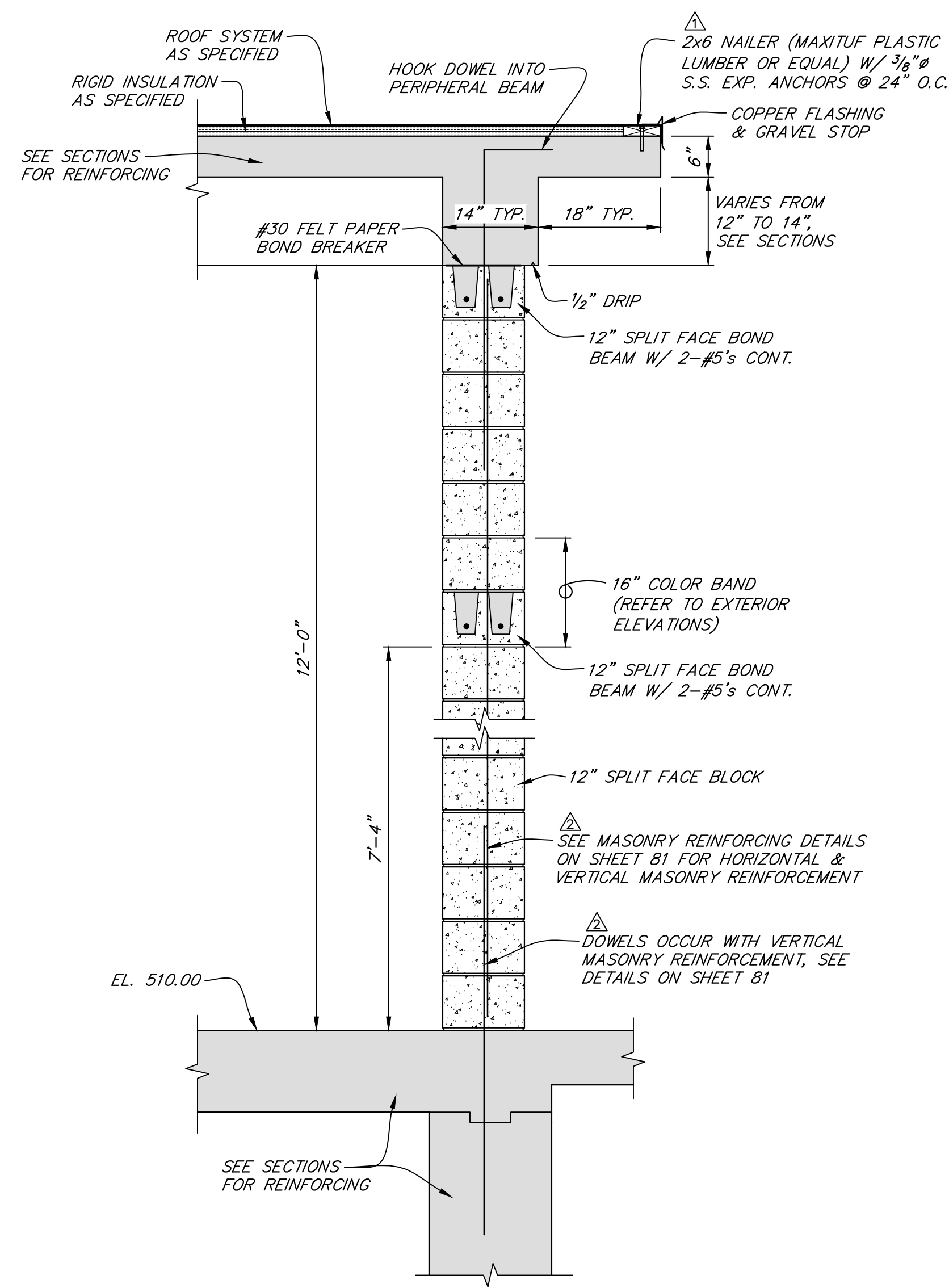




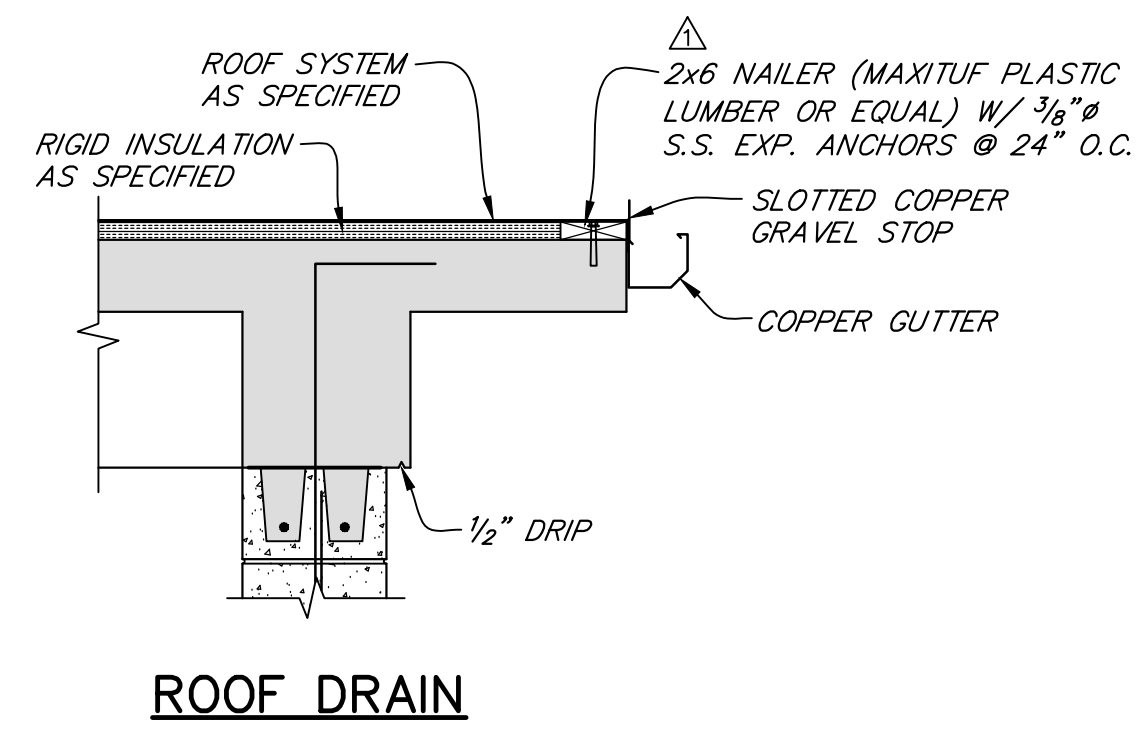
CONSTRUCTION NOTES

- SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
- SEE PIPING PLAN SHEETS 8-11.
- 100 YEAR FLOOD ELEVATION 505, FEMA PANEL NO. 342 OF 500 MAP NUMBER 2104700342C EFFECTIVE DATE SEPTEMBER 17, 2008.
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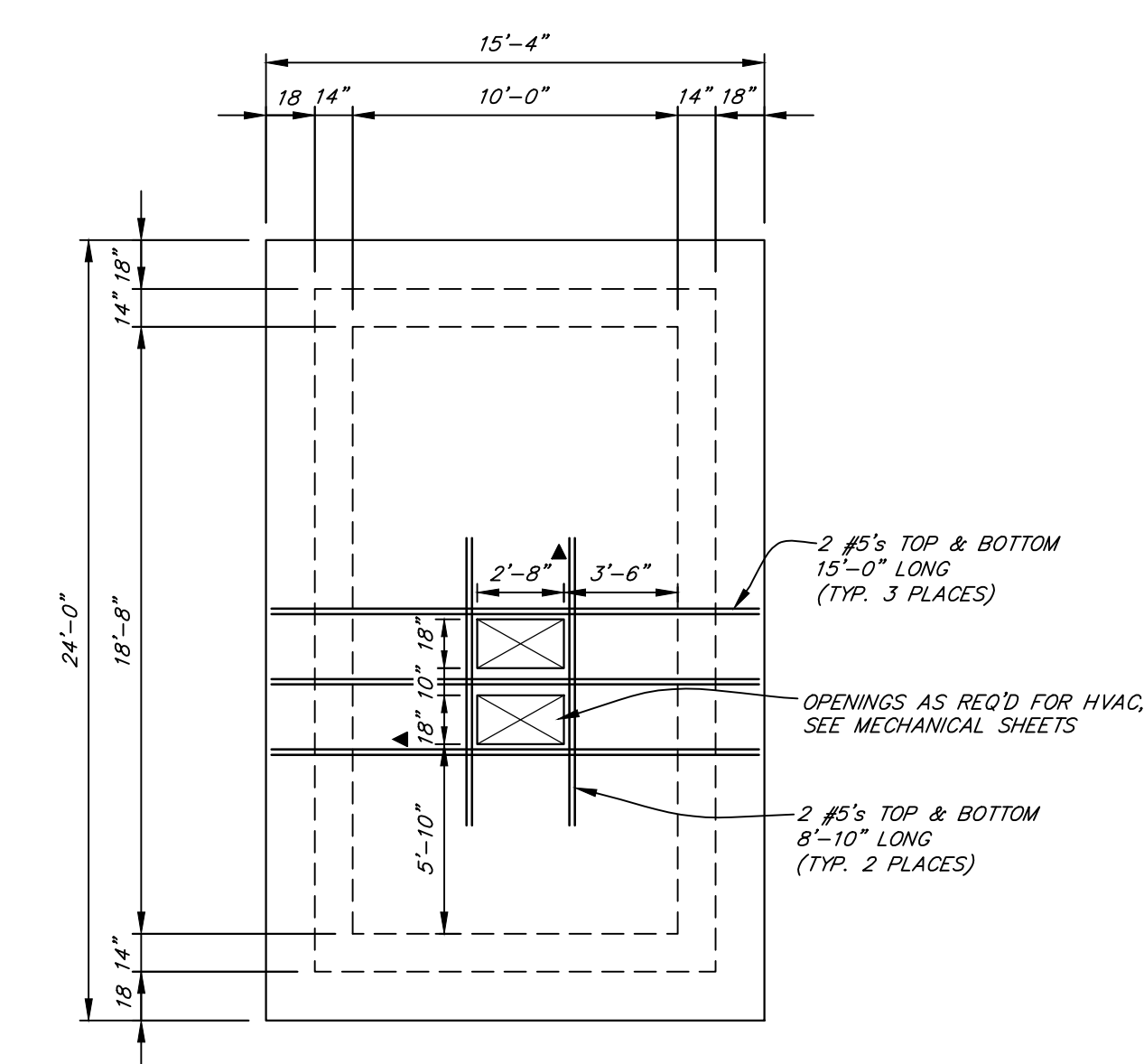
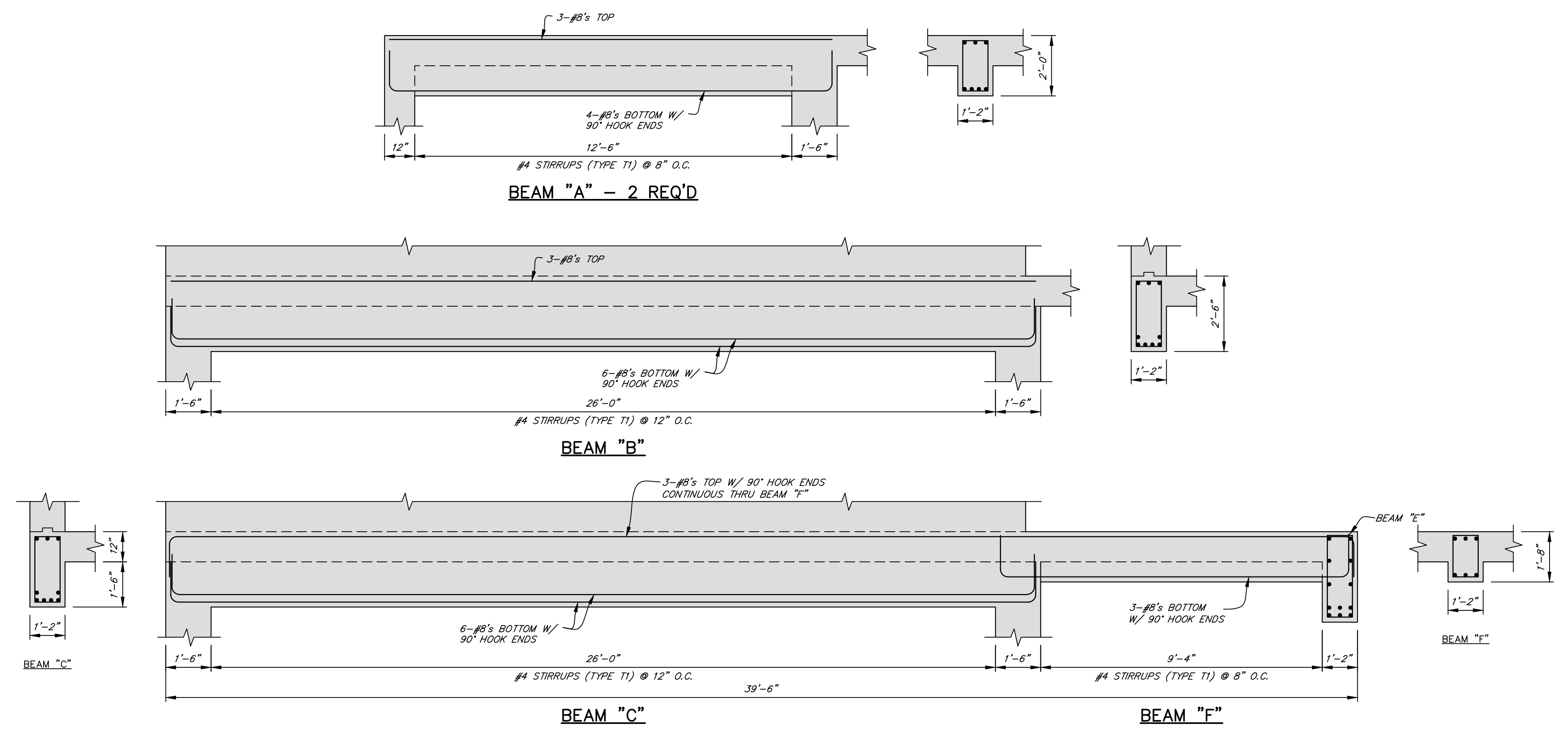
SHEET 22 OF 97 REVISIONS ADDENDUM NO. 3 1/10/20 AWR	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
	SITE PIPING PROFILES FOR HOPKINSVILLE WATER ENVIRONMENTAL AUTHORITY	
SCALE 1"=20' HOR 1"=10' VERT	DATE FEB. 2019	DESIGNED SCL DRAWN AWR CHECKED JGD
PROJECT NUMBER 1983	J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615) 883-3243 www.jrwaford.com	



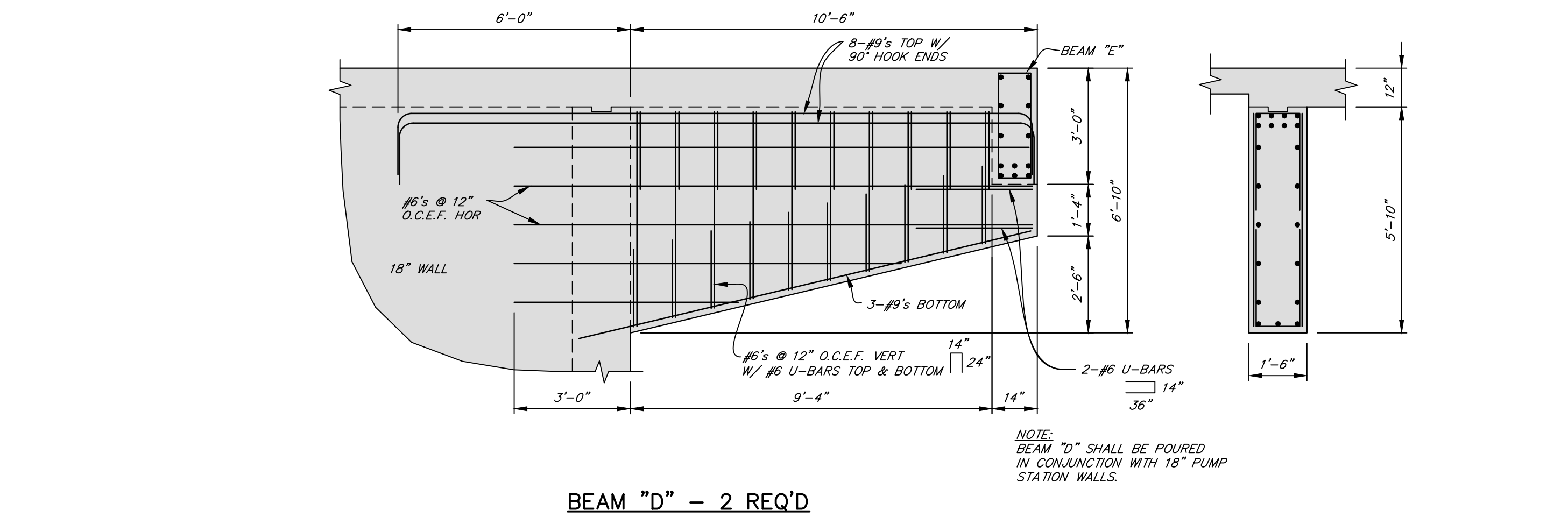
MAIN SPS ELECTRICAL ROOM WALL SECTION
SCALE: 3/4" = 1'-0"



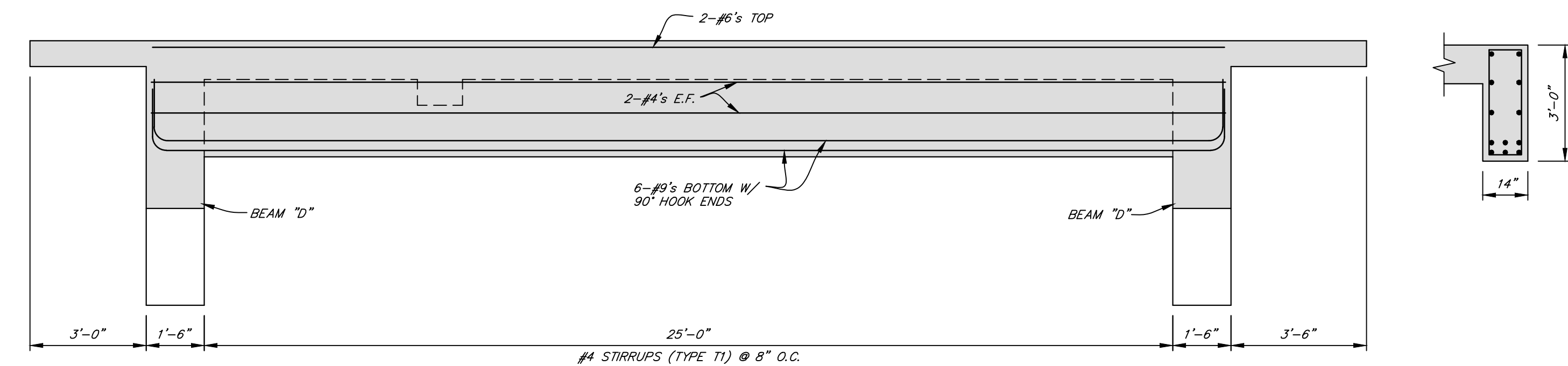
ROOF DRAIN



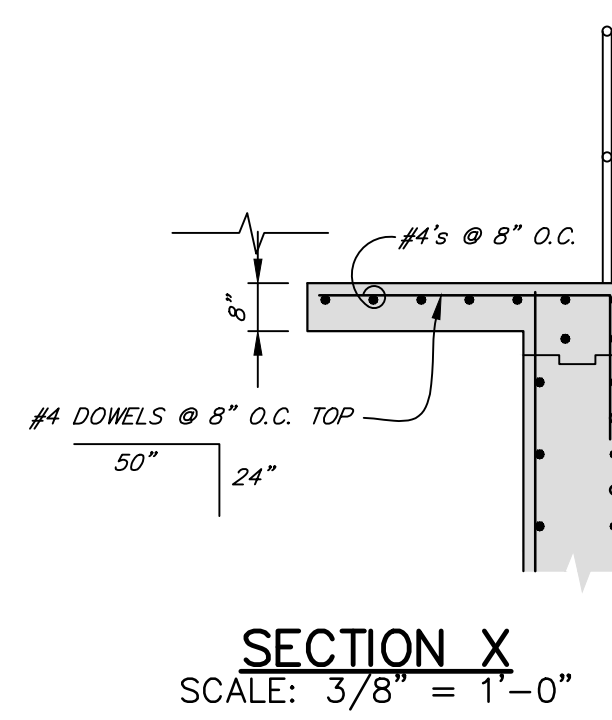
ROOF SLAB PLAN
SCALE: 3/16" = 1'-0"



BEAM "D" - 2 REQ'D

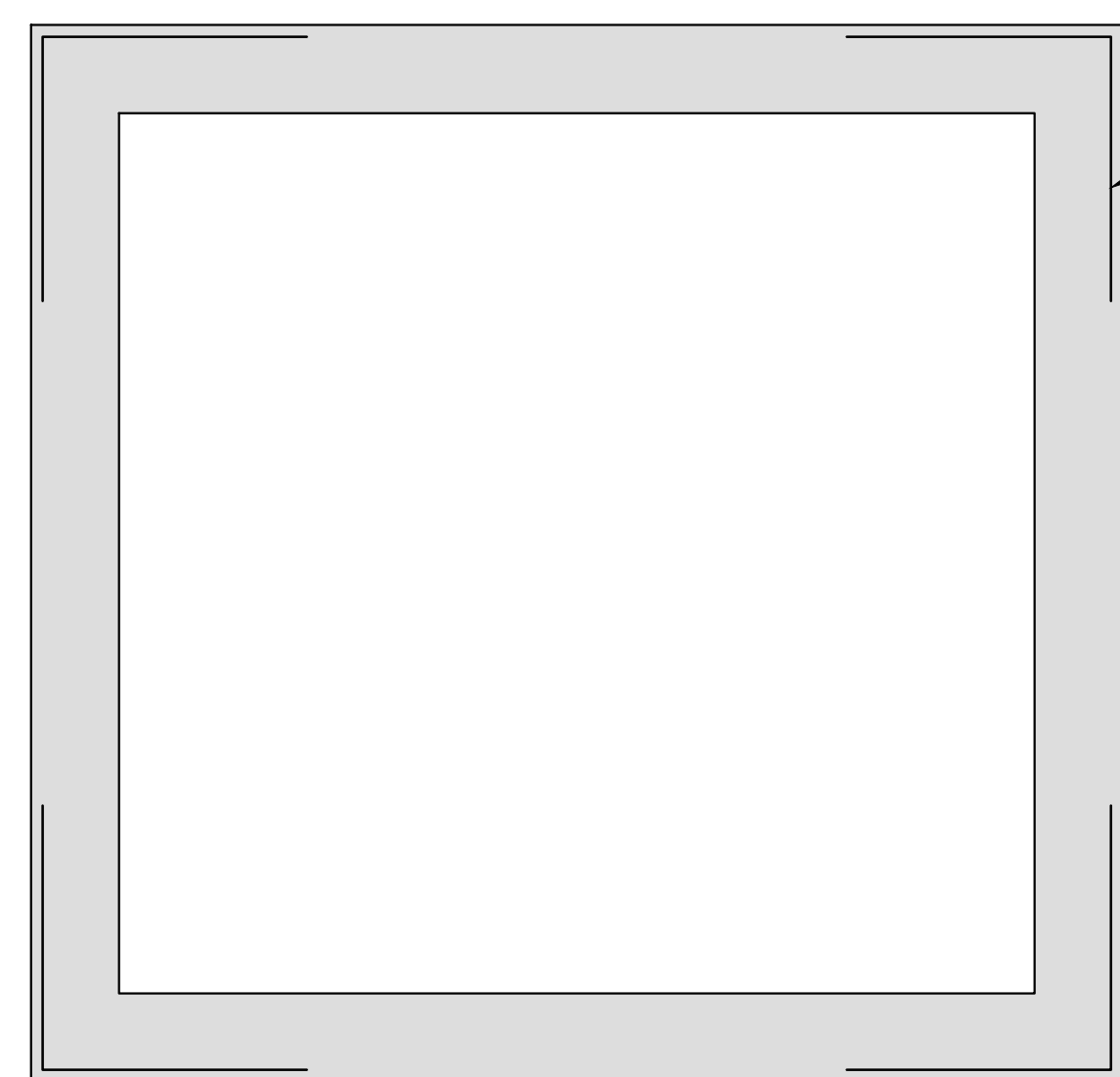


BEAM "E"
BEAM DETAILS
SCALE: 3/8" = 1'-0"

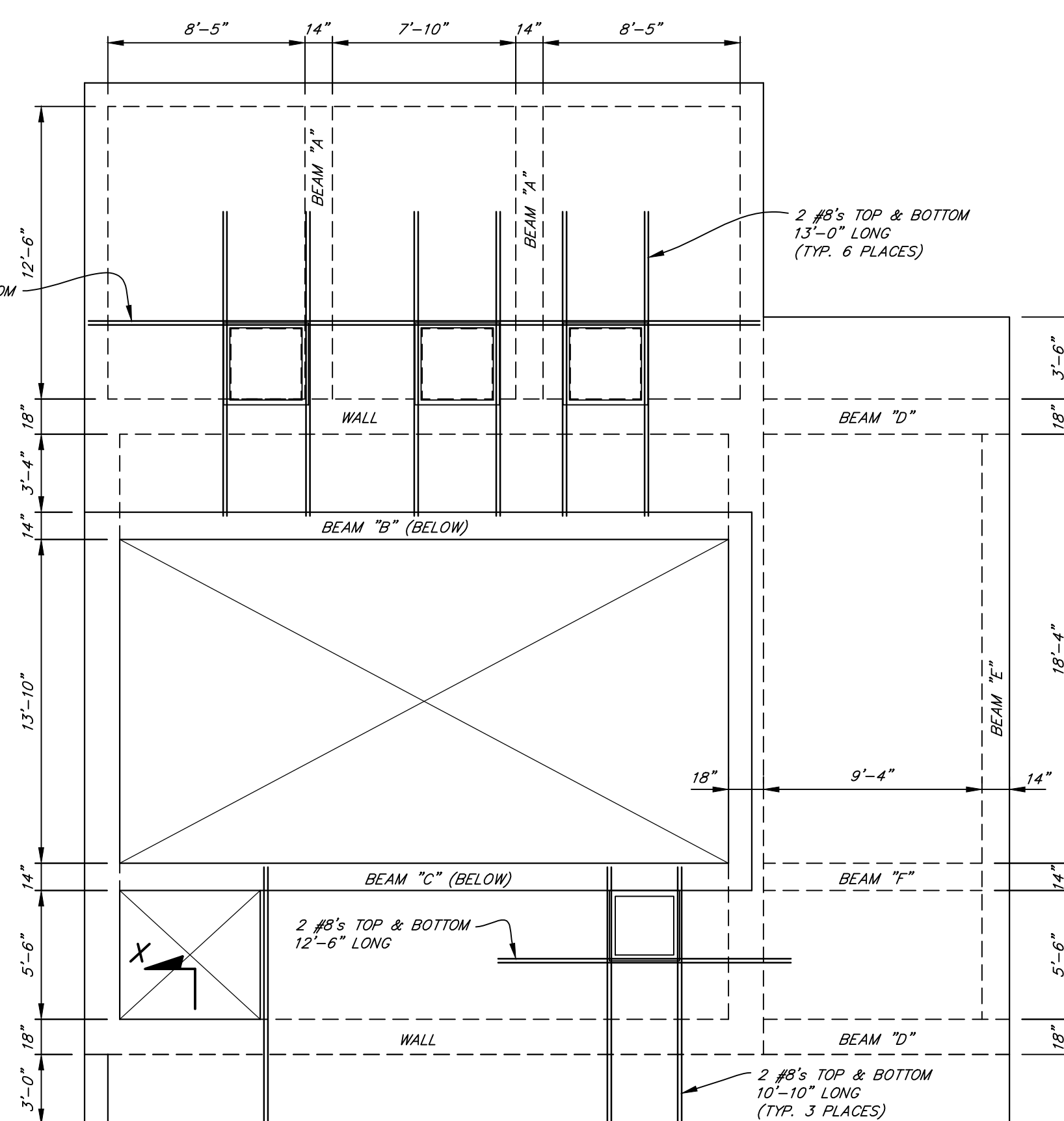


SECTION X
SCALE: 3/8" = 1'-0"

WALL REINFORCING TABLE							
ELEVATION	WALL	VERTICAL REINFORCING		HORIZONTAL REINFORCING			
		INSIDE FACE	OUTSIDE FACE	REGULAR STEEL	REGULAR STEEL WITH CORNER BARS	EXTRA STEEL	EXTRA CORNER BARS
466.75 - 488.00	42"	#8's @ 12" O.C.	#8's @ 12" O.C.	#9's @ 12" O.C.	#9's @ 12" O.C.	#5's @ 12" O.C.	#8's @ 12" O.C.
488.00 - 499.25	30"	#7's @ 12" O.C.	#7's @ 12" O.C.	#8's @ 12" O.C.	#8's @ 12" O.C.	#5's @ 12" O.C.	#8's @ 12" O.C.
499.25 - 510.00	18"	#6's @ 12" O.C.	#6's @ 12" O.C.	#6's @ 12" O.C.	#6's @ 12" O.C.	#5's @ 12" O.C.	#8's @ 12" O.C.



WETWELL WALL PLAN SHOWING EXTRA CORNER BARS
SCALE: 3/16" = 1'-0"

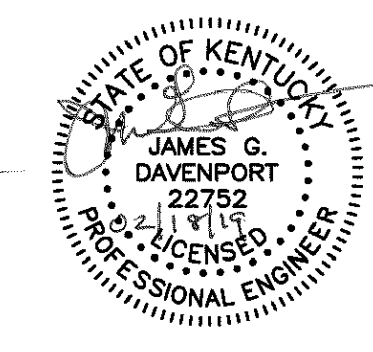
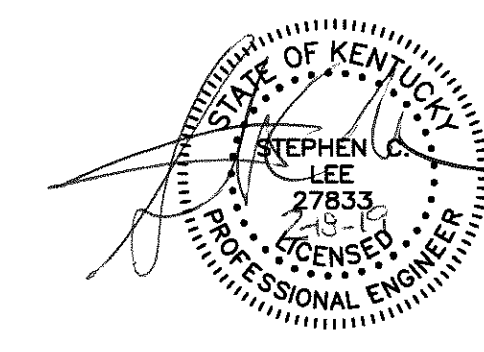


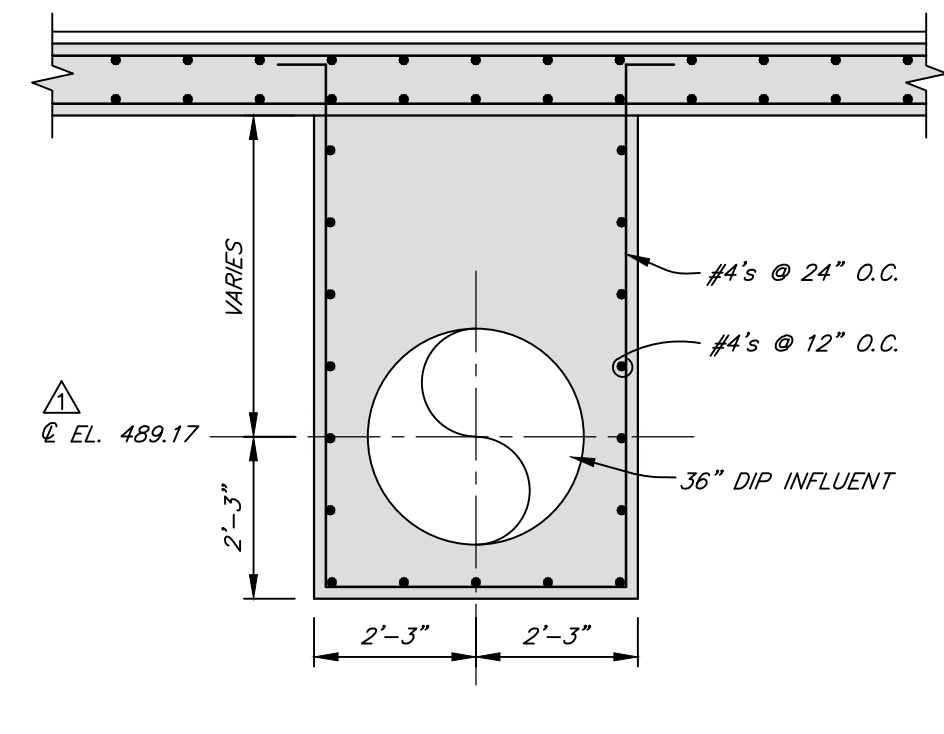
TOP SLAB REINFORCING PLAN
SCALE: 3/16" = 1'-0"

CONSTRUCTION NOTES

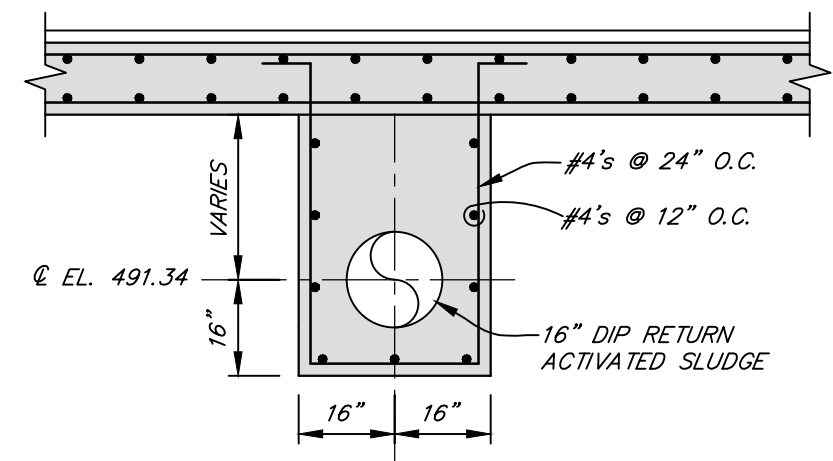
1. SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
2. SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET 81.
3. * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
4. ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
6. ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL WITH NEVERSEIZE OR EQUAL APPLIED TO THE THREADS.
7. SEE MASONRY DETAILS ON SHEET 81.
8. ALL HATCHES SHALL HAVE ALUMINUM OR FIBERGLASS FALL PROTECTION GRATE.

SHEET 31 OF 97	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION
REVISIONS ADDENDUM NO. 1 11/25/19 AWR ADDENDUM NO. 3 1/10/20 AWR	MAIN SEWAGE PUMPING STATION STRUCTURAL DETAILS
FOR HOPKINSVILLE WATER ENVIRONMENTAL AUTHORITY	DESIGNED SCL
AS SHOWN	WAUFORD
DATE FEB. 2019	DRAWN AWR
PROJECT NUMBER 1983	CHECKED JGD

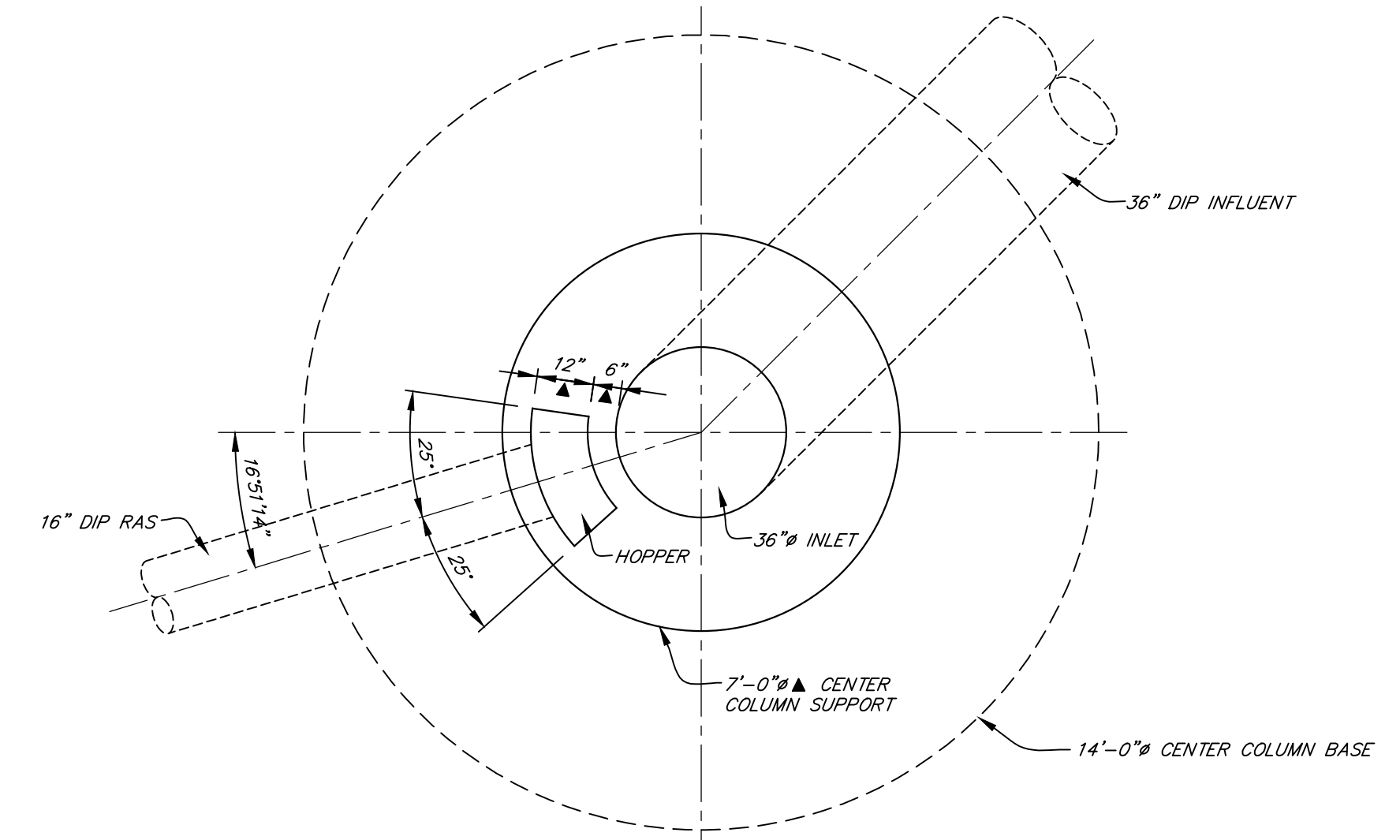




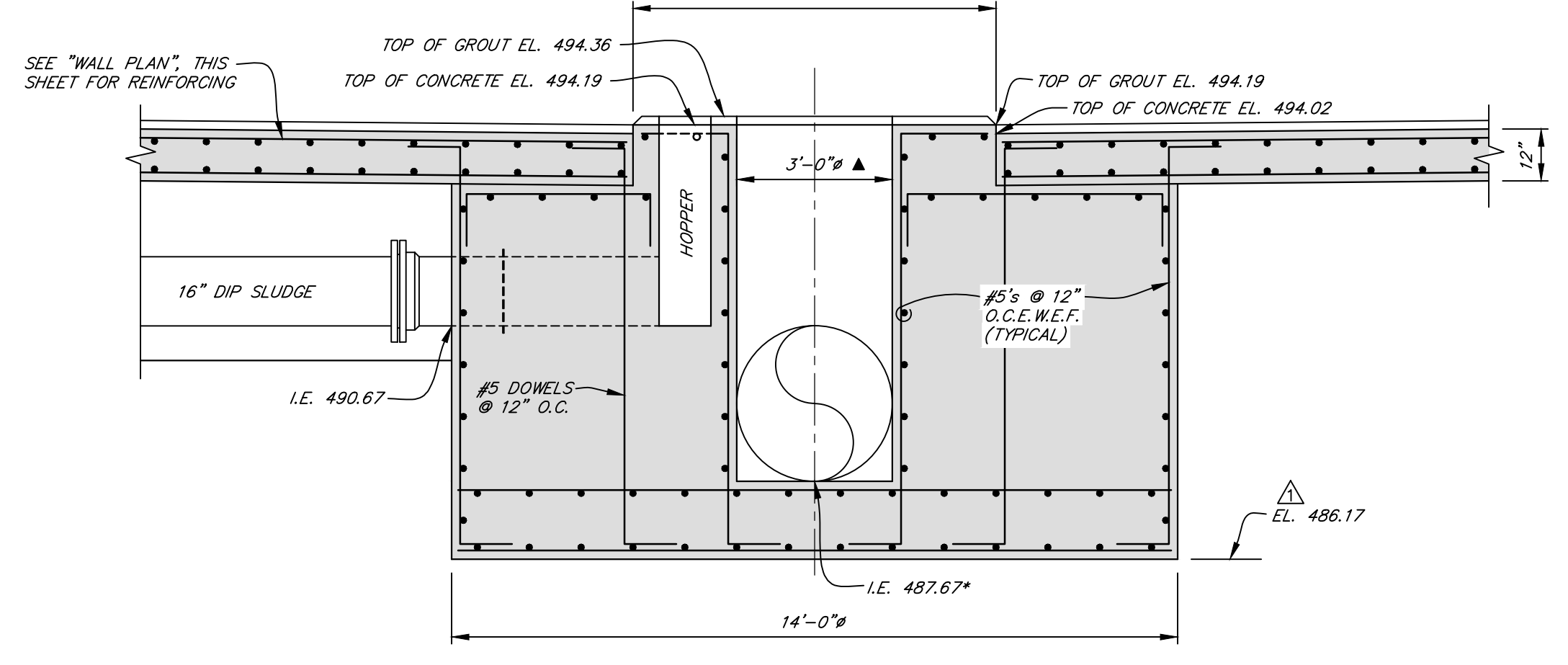
SECTION B-53
SCALE: 3/8" = 1'-0"



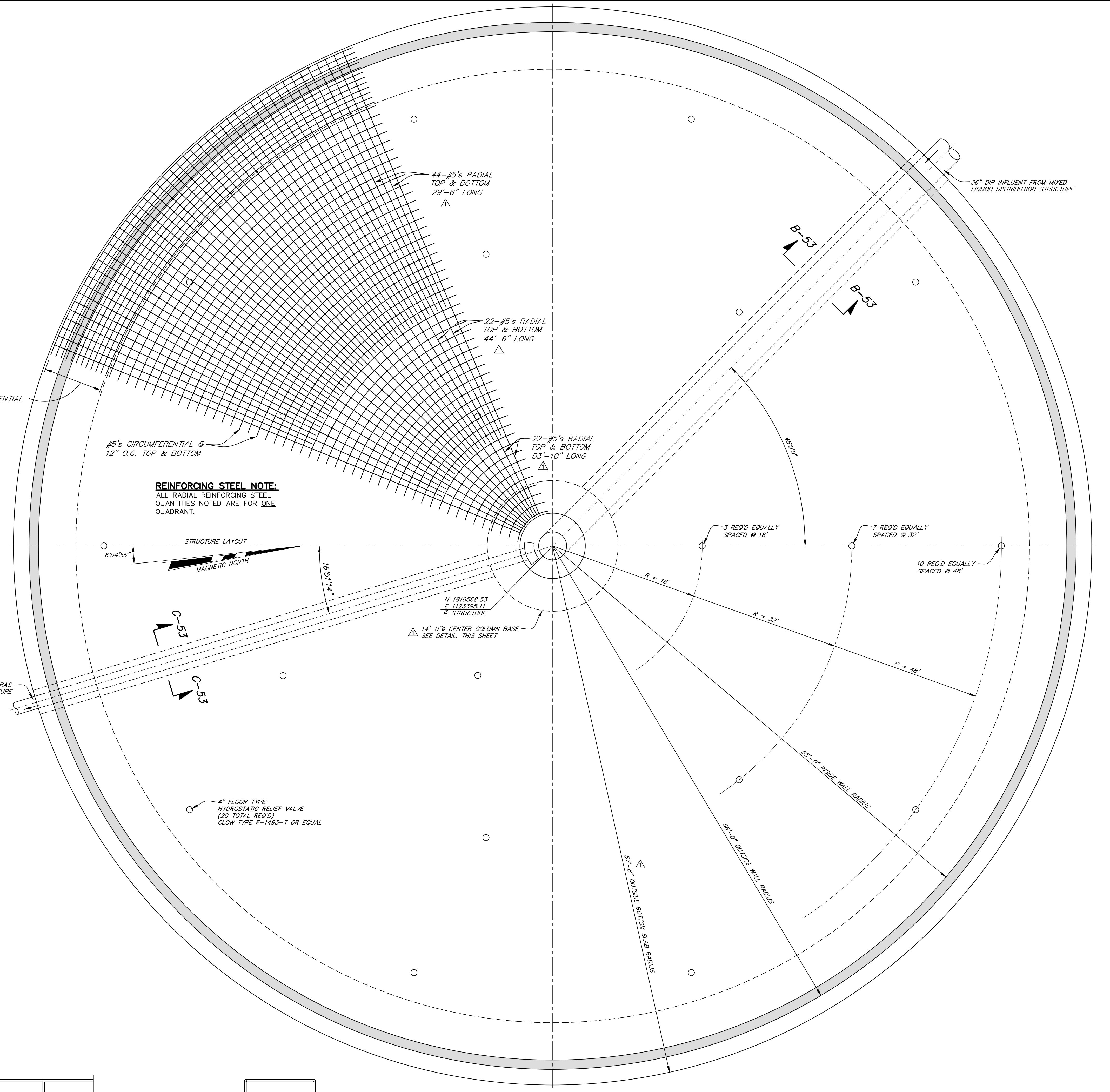
SECTION C-53
SCALE: 3/8" = 1'-0"



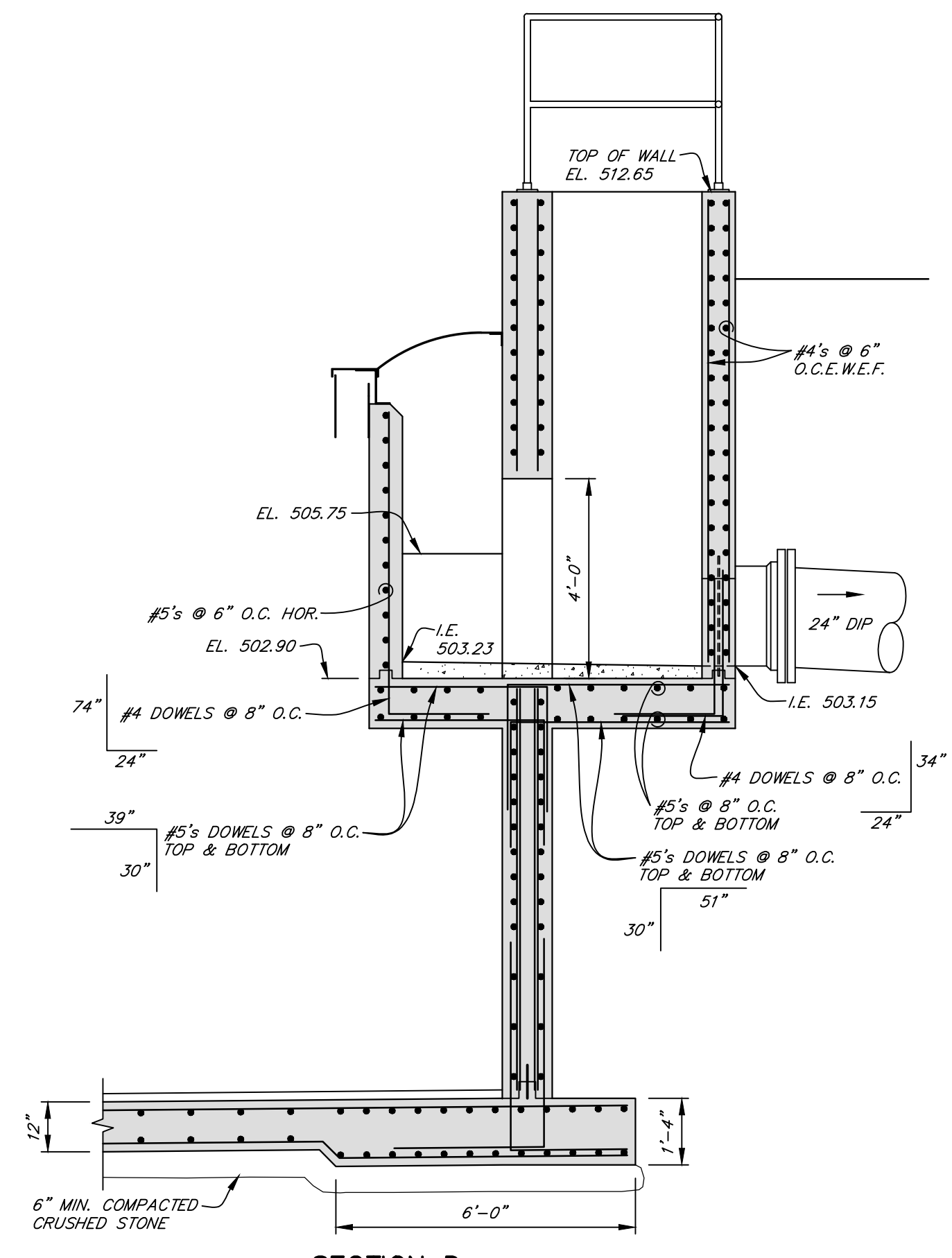
PLAN



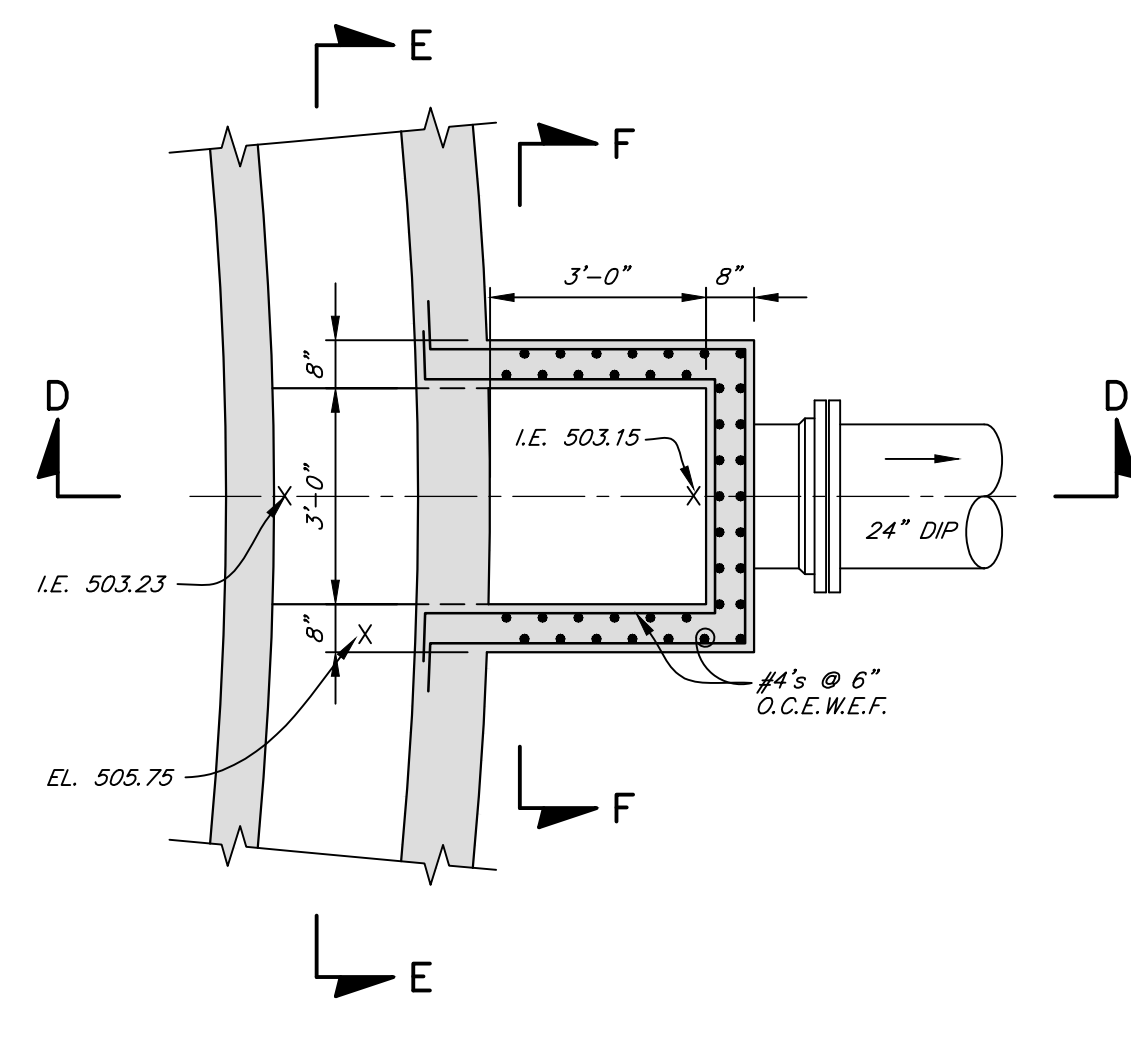
SECTION
CENTER COLUMN BASE DETAIL
SCALE: 3/8" = 1'-0"



WALL PLAN
SCALE: 3/16" = 1'-0"

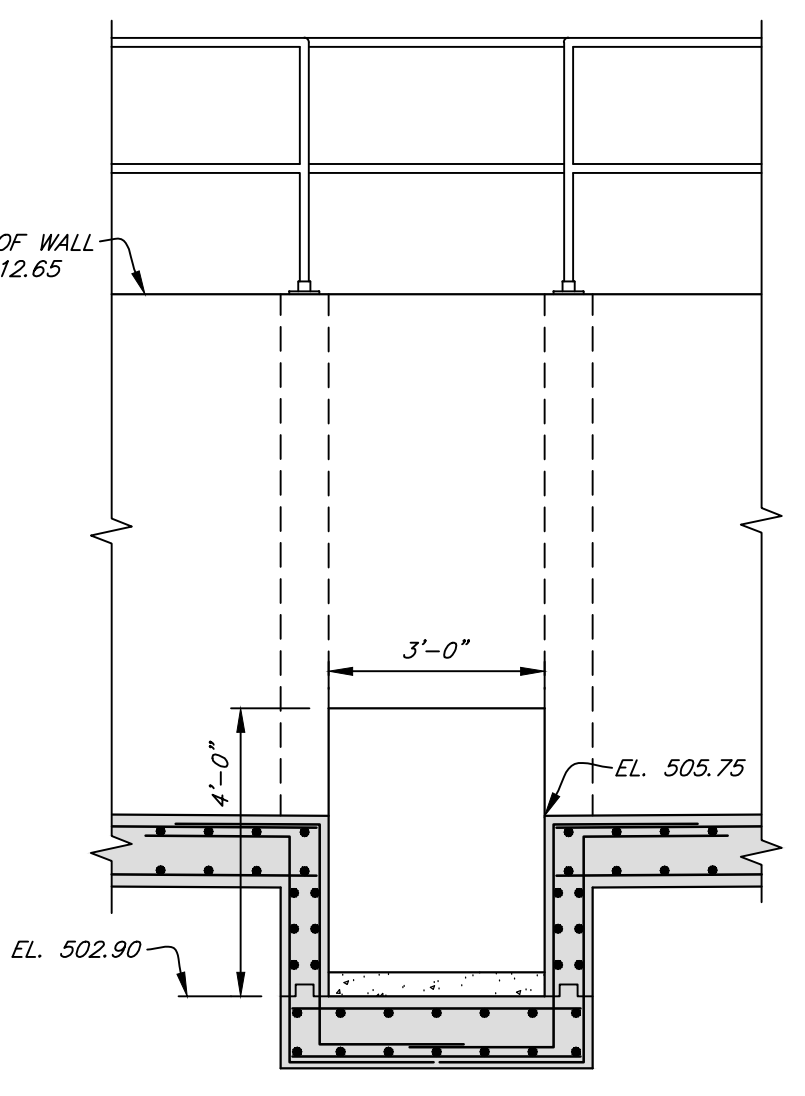


SECTION D

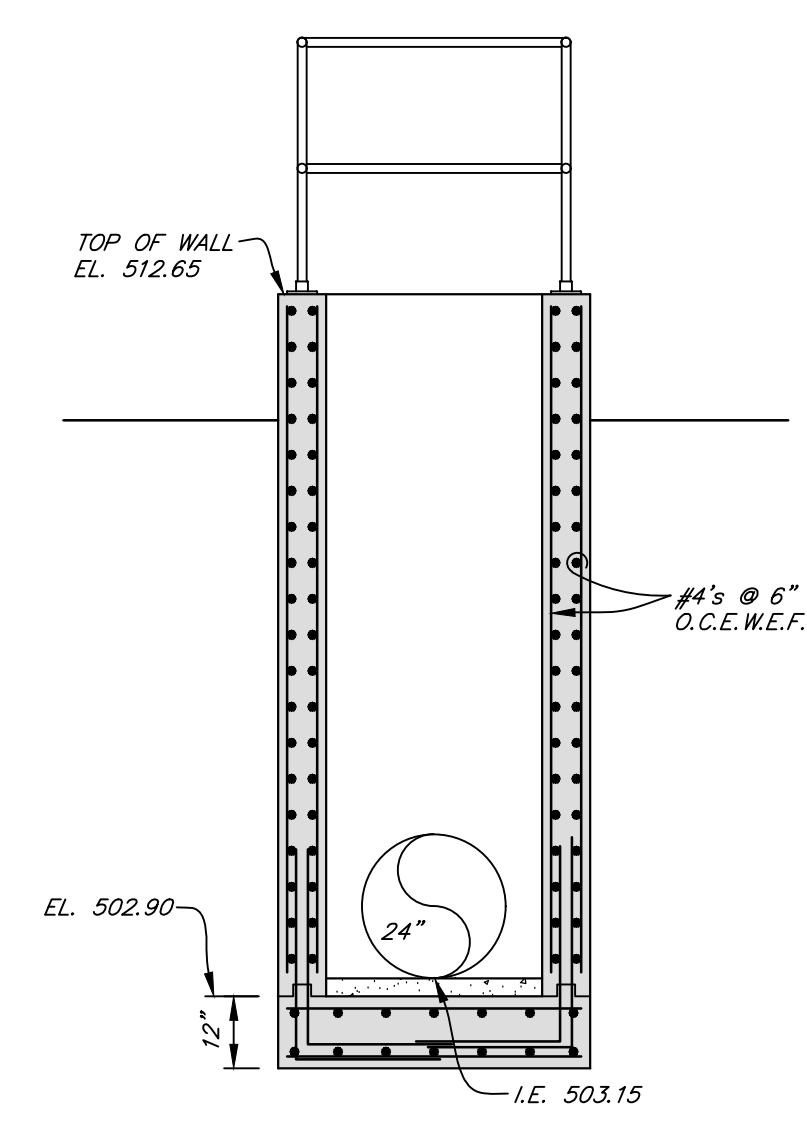


EFFLUENT BOX PLAN

EFFLUENT BOX DETAILS
SCALE: 3/8" = 1'-0"



SECTION E

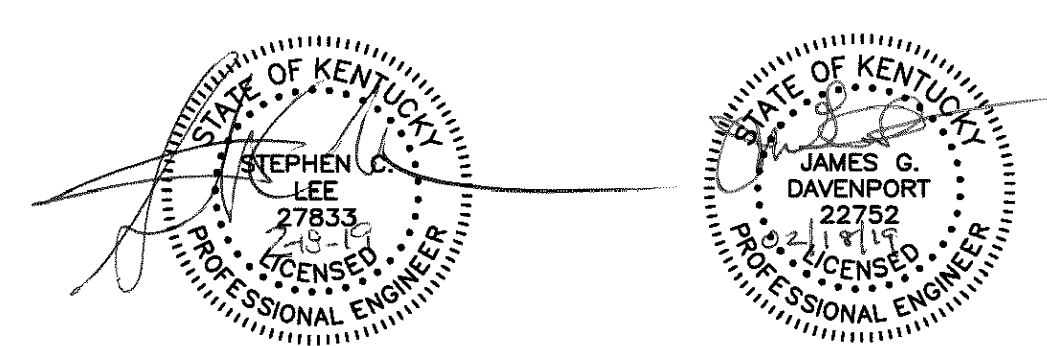


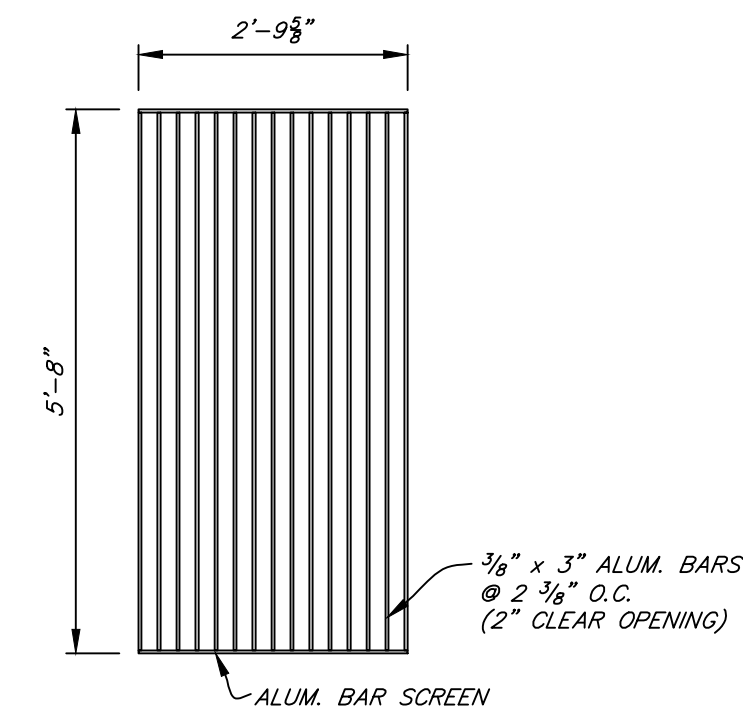
SECTION F

CONSTRUCTION NOTES

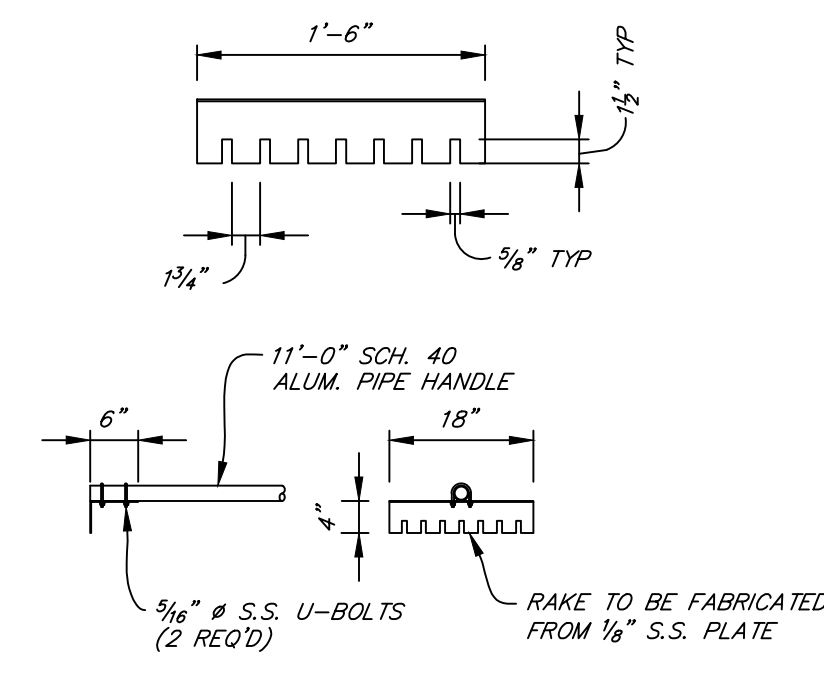
1. SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
2. SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET B1.
3. * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
4. ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
6. ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL WITH NEVERSEIZE OR EQUAL APPLIED TO THE THREADS.

SHEET 53 OF 97	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND WOOD WASTEWATER TREATMENT PLANT EXPANSION
REVISIONS ADDENDUM NO. 3 1/10/20 AWR	FINAL CLARIFIER NO. 3 WALL PLAN, SECTIONS AND DETAILS
SCALE AS SHOWN	FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY
DATE FEB. 2019	DESIGNED SCL DRAWN AWR CHECKED JGD
PROJECT NUMBER 1983	WAUFORD J. & W. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615) 883-3243 www.jw.wauford.com

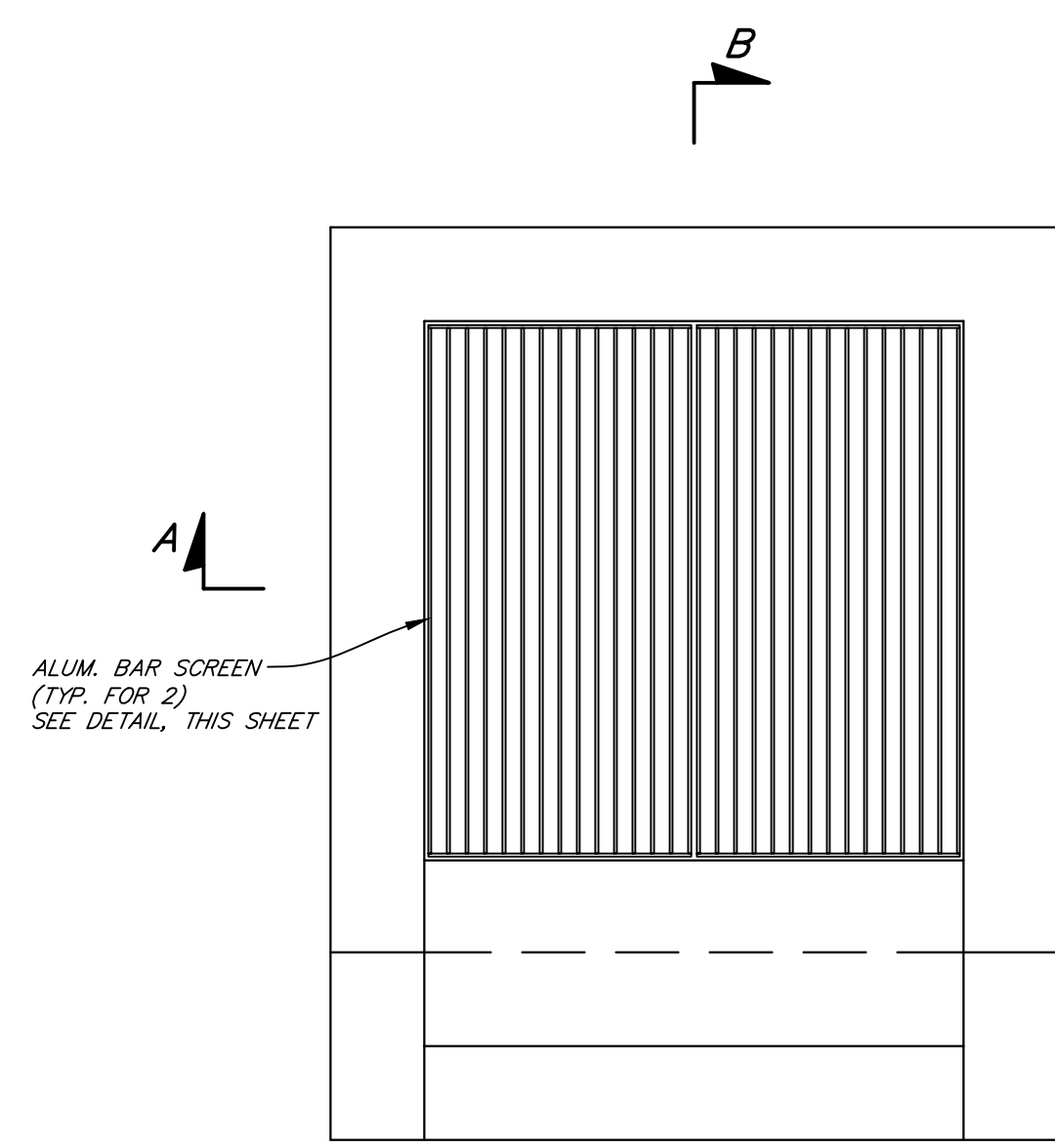




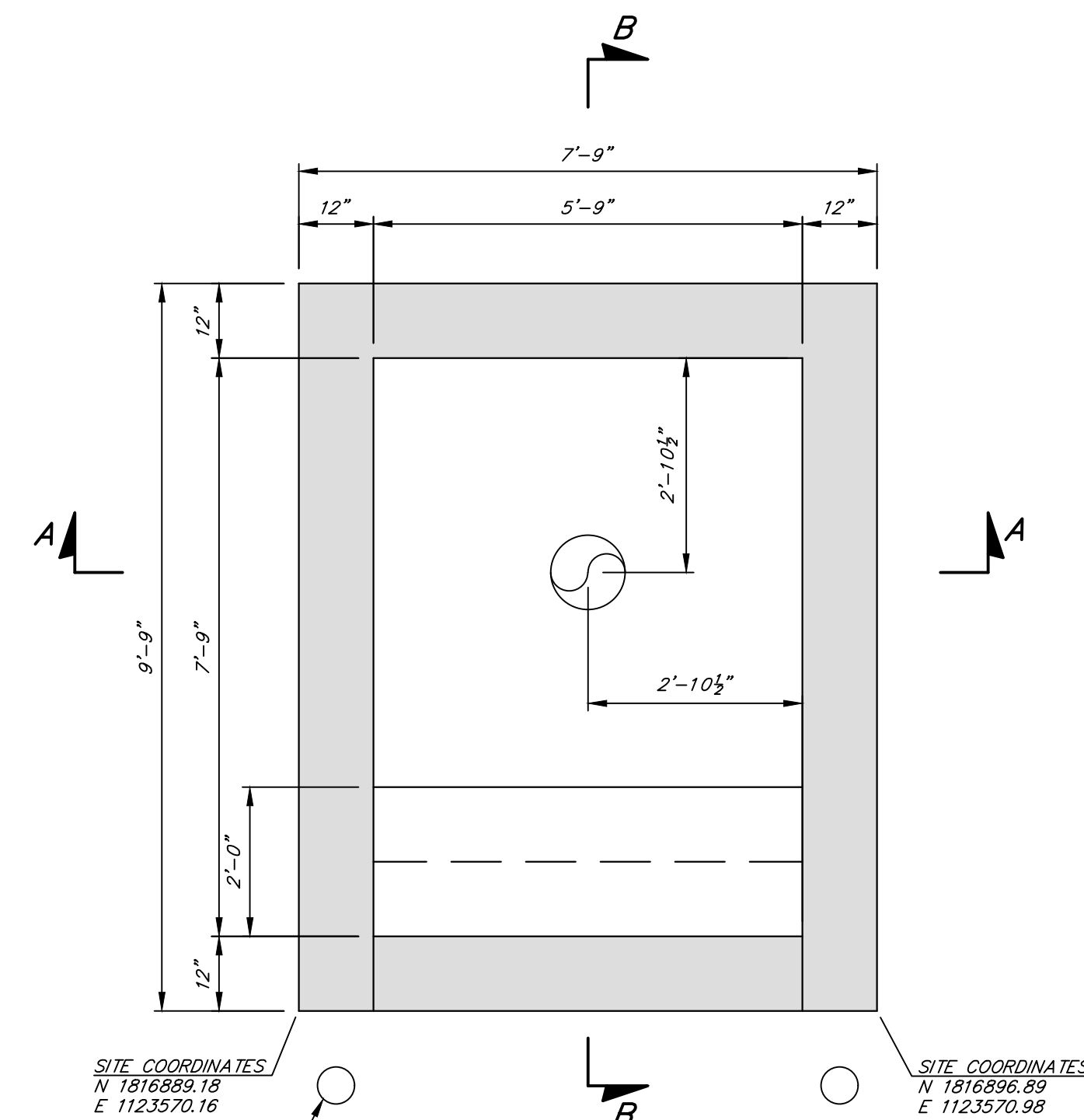
BAR SCREEN DETAIL
SCALE: 1/2"=1'-0"



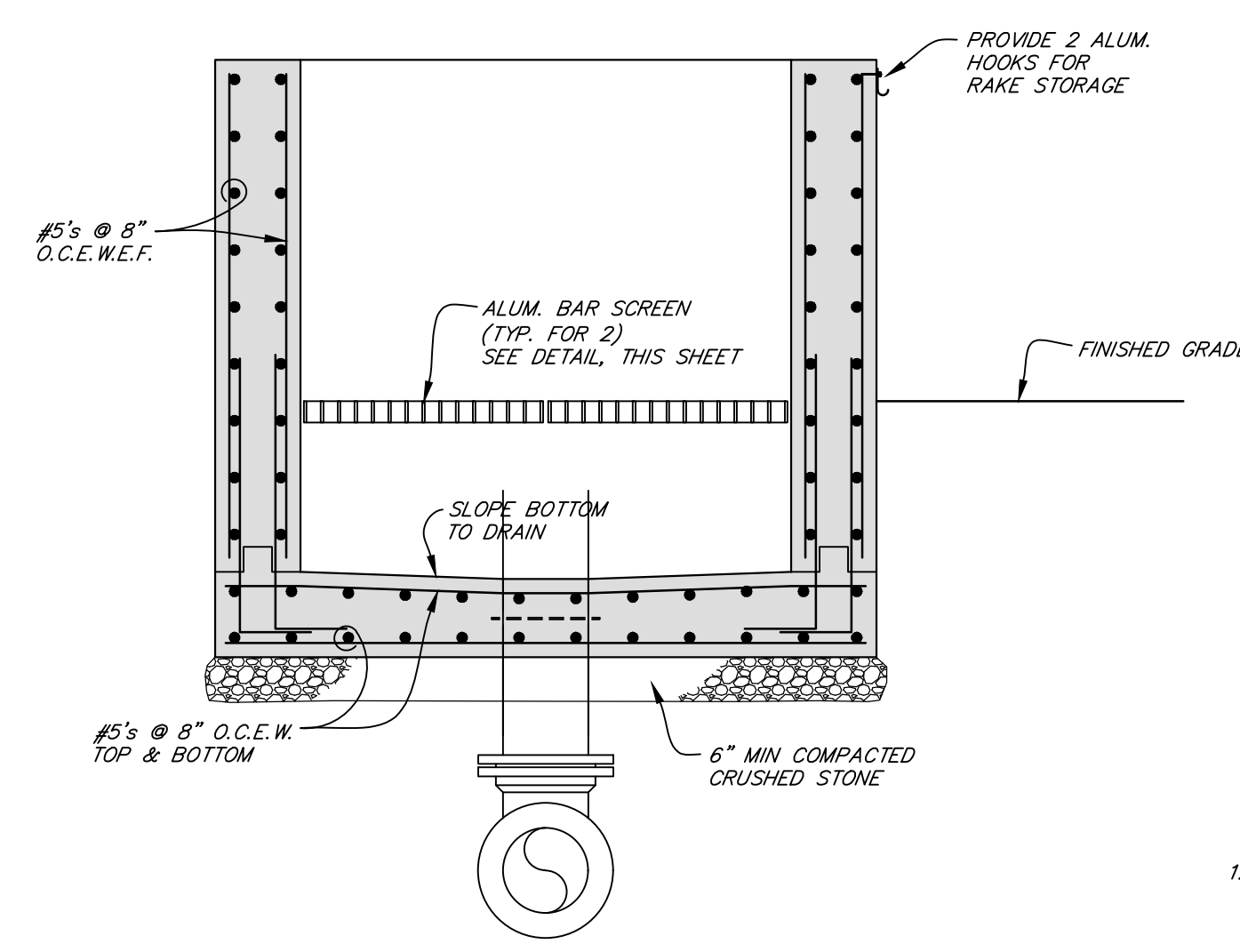
BAR SCREEN RAKE DETAIL
SCALE: 1/2"=1'-0"



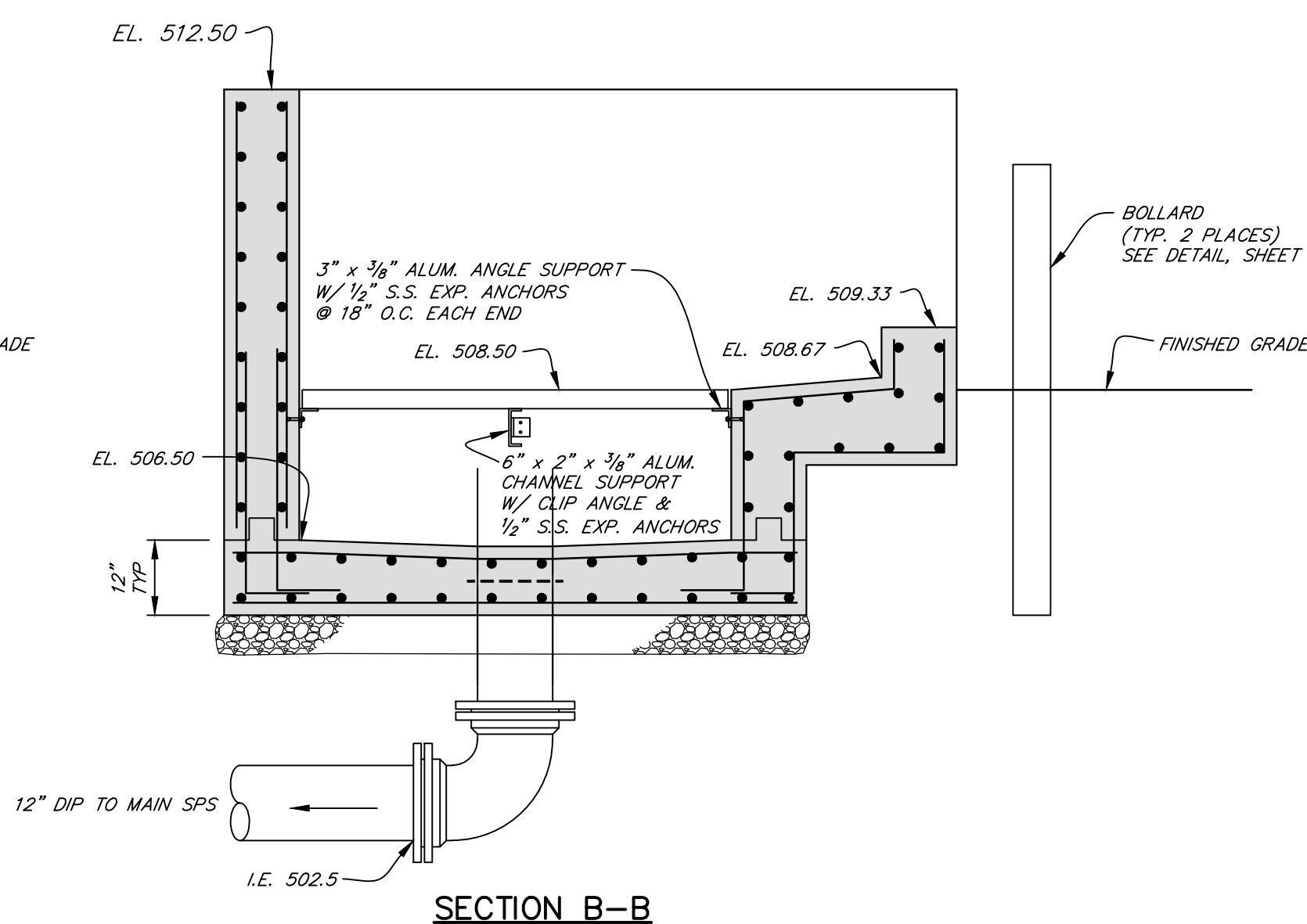
TOP PLAN



WALL PLAN

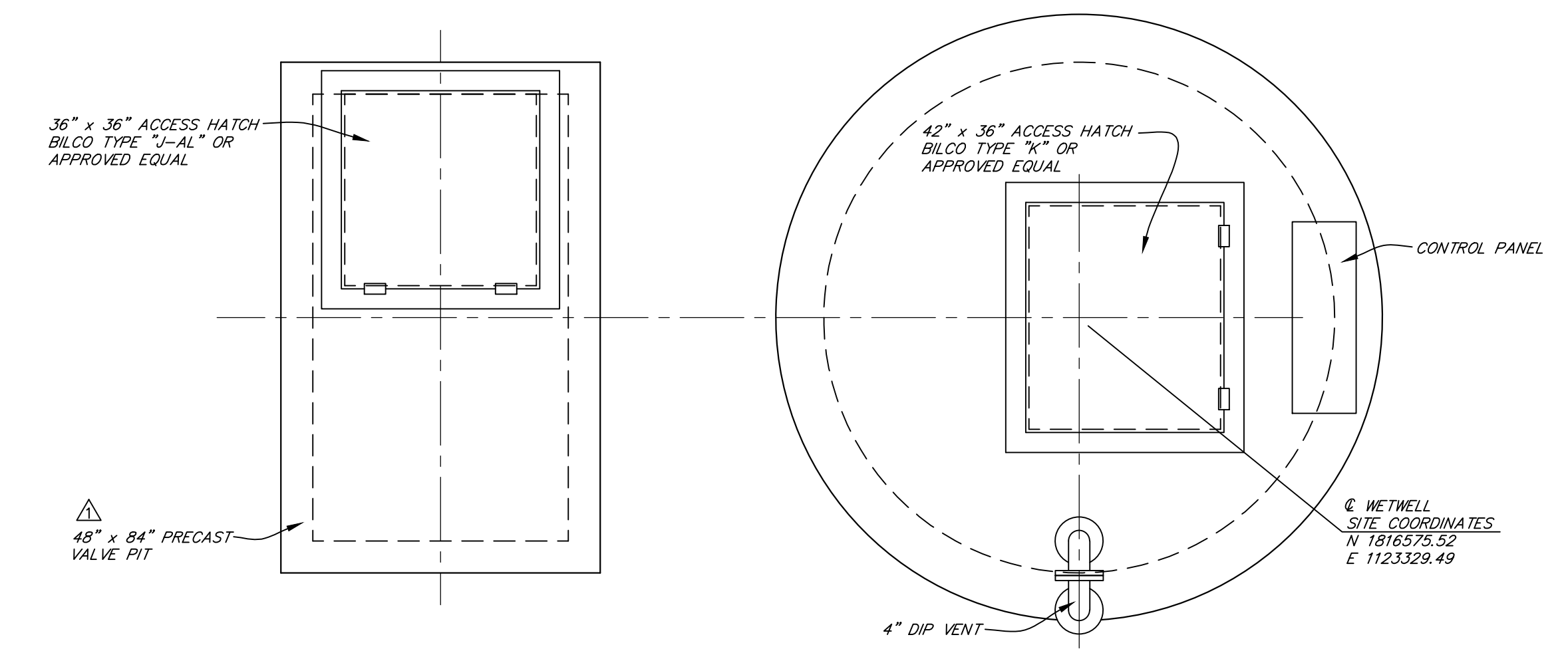


SECTION A-A

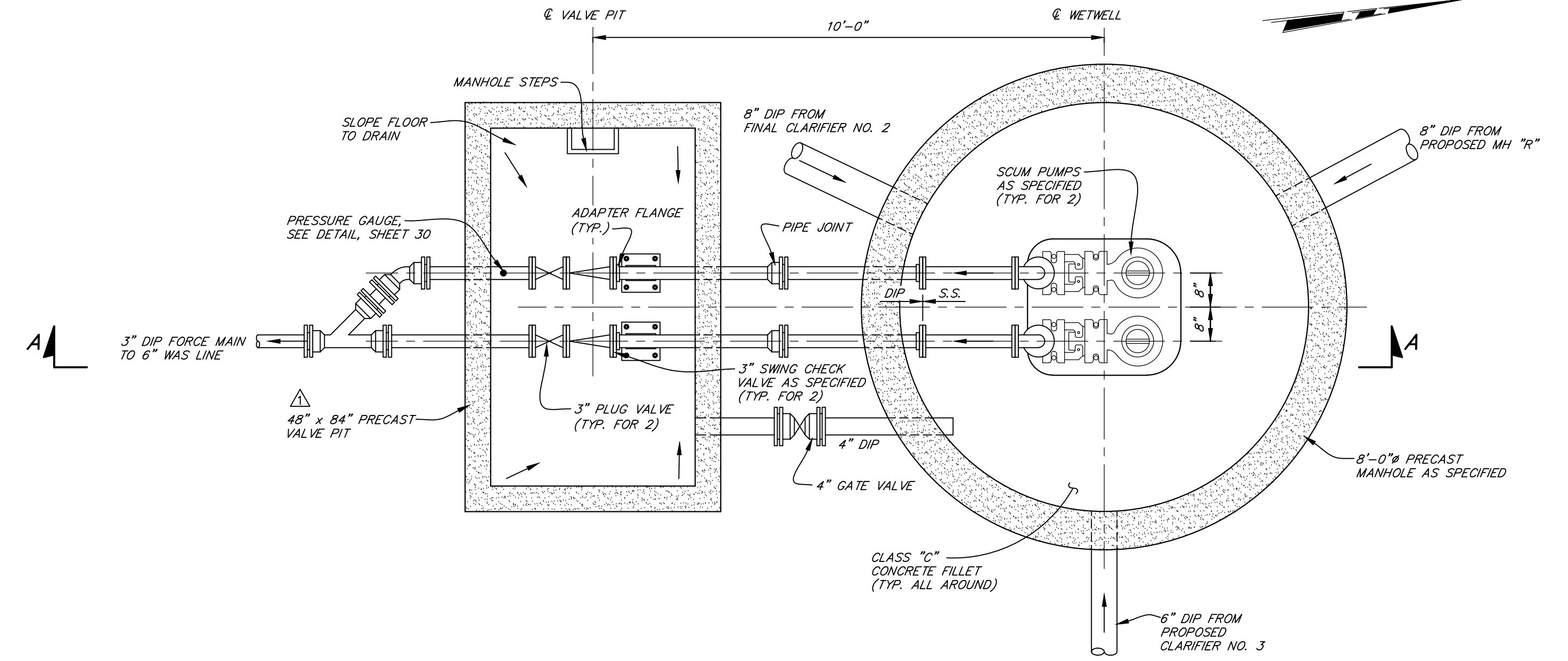


SECTION B-B

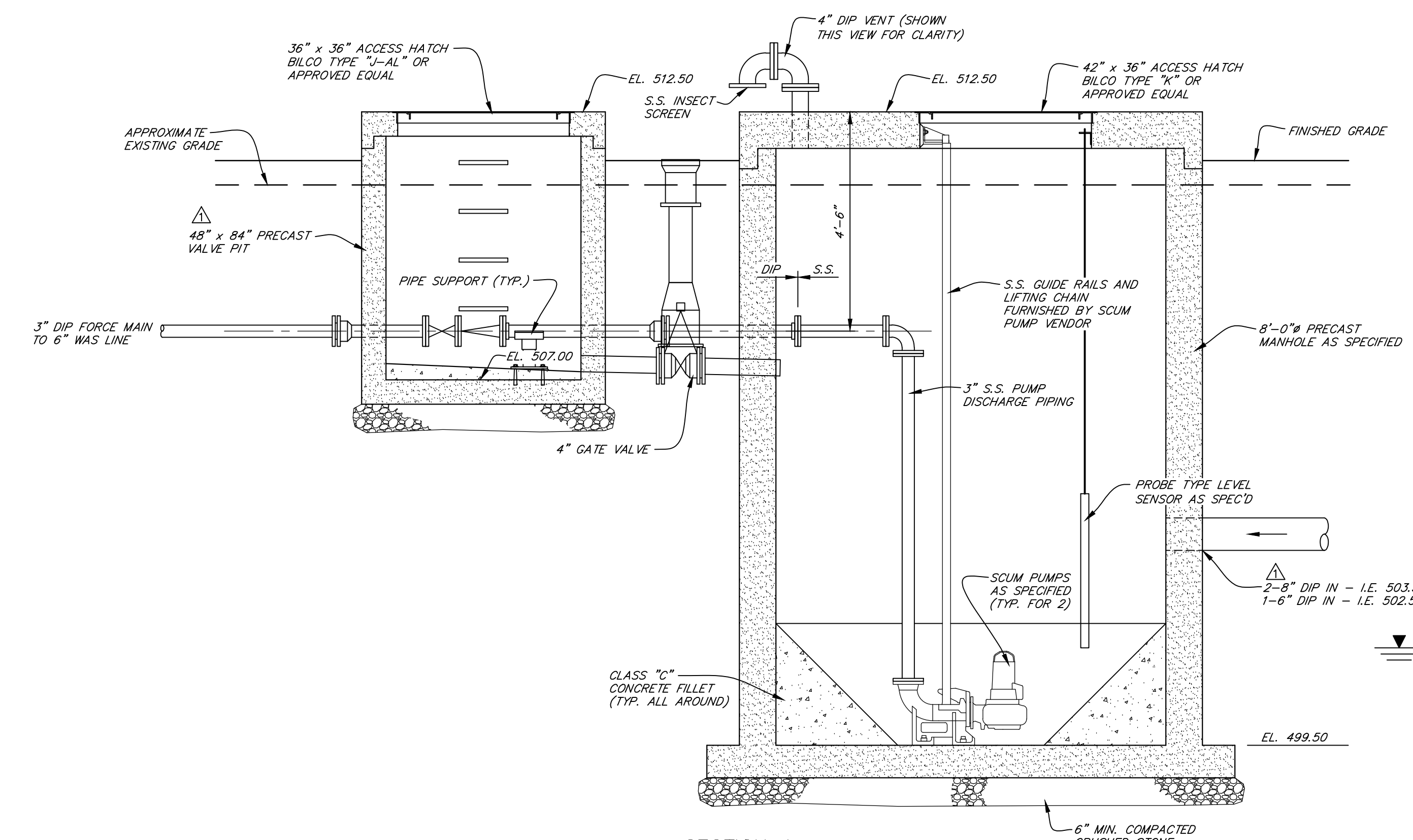
SEPTAGE RECEIVING STATION
SCALE: 1/2"=1'-0"



TOP PLAN

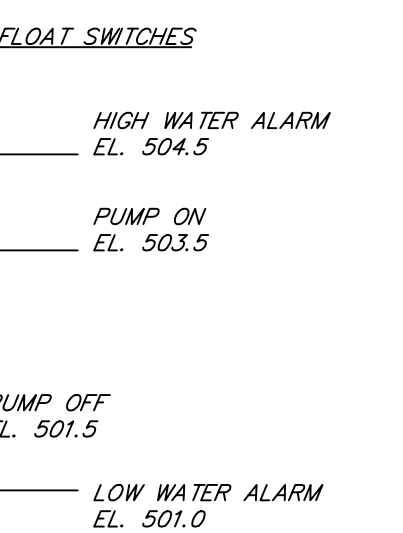


WALL PLAN



SECTION A

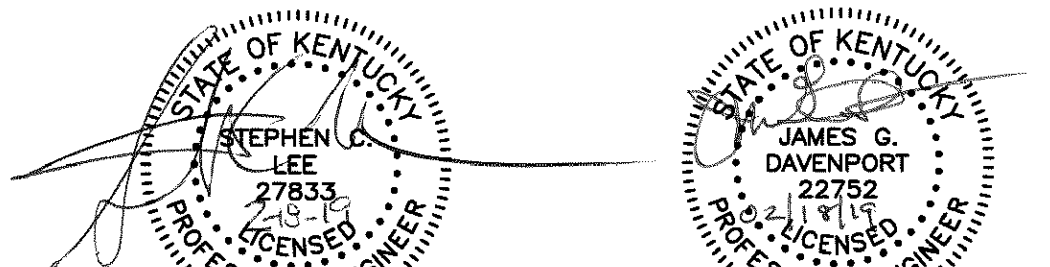
SCUM PUMPING STATION
SCALE: 1/2"=1'-0"

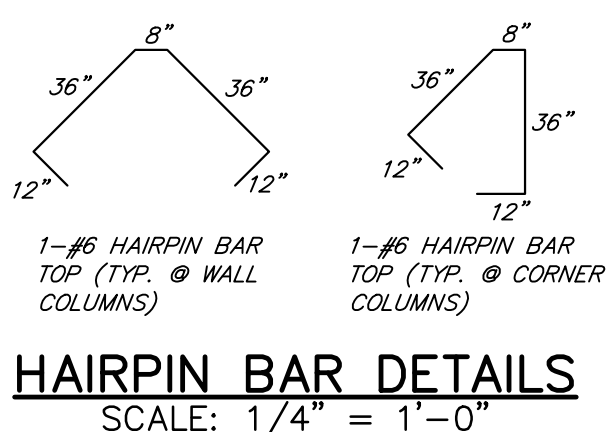
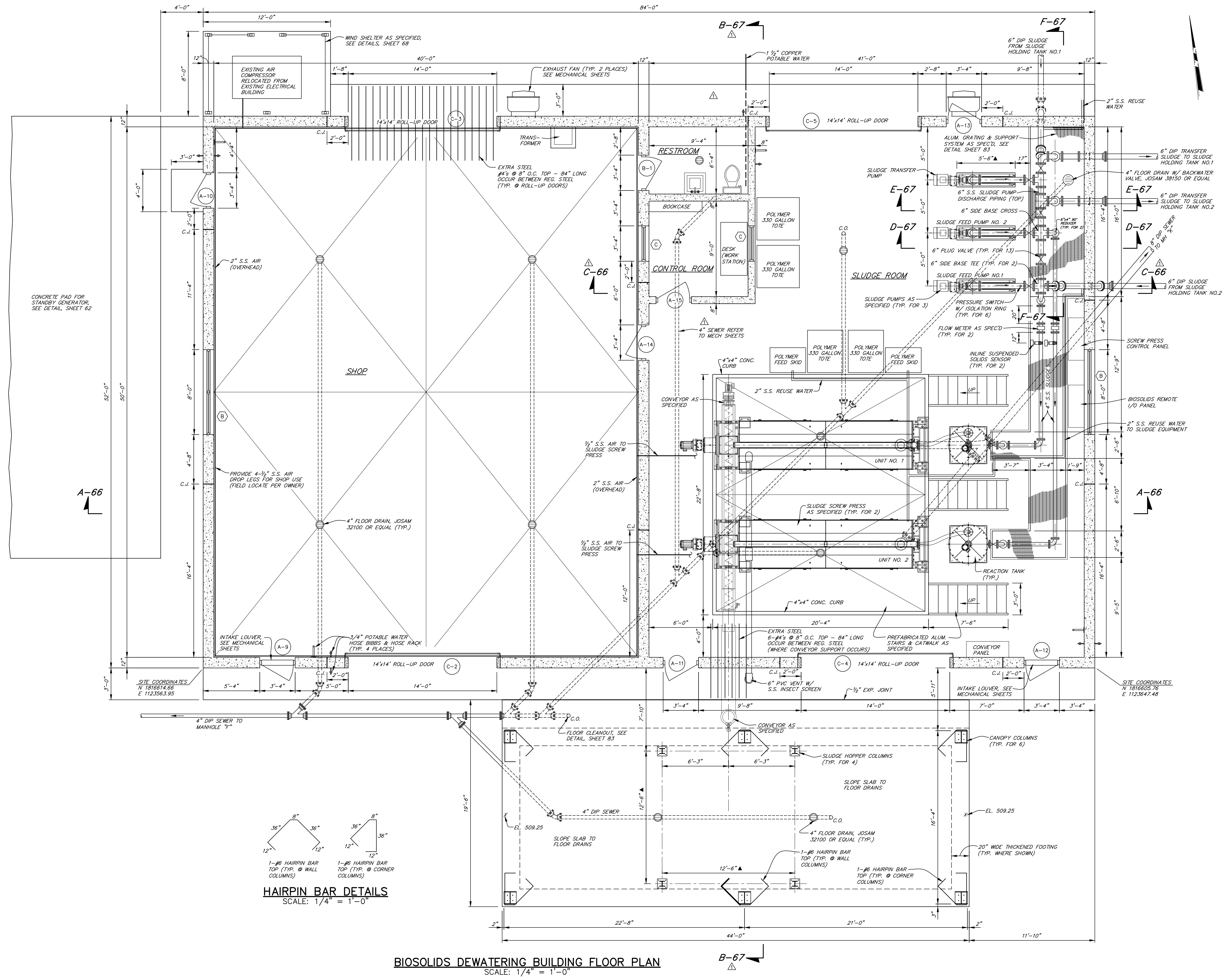


CONSTRUCTION NOTES

- SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
- SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET 81.
- * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
- ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
- ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL WITH NEVERSEIZE OR EQUAL APPLIED TO THE THREADS.
- ALL HATCHES SHALL HAVE ALUMINUM OR FIBERGLASS FALL PROTECTION GRATE.

SHEET 55 OF 97	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01	
	HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
REVISIONS ▲ ADDENDUM NO. 3 1/10/20 AWR	SCUM PUMPING STATION AND SEPTAGE RECEIVING STATION	
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY		
SCALE AS SHOWN	WAUFORD J. & Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615) 883-3243 www.jwauford.com	DESIGNED SCL
PROJECT NUMBER 1983		DATE FEB. 2019

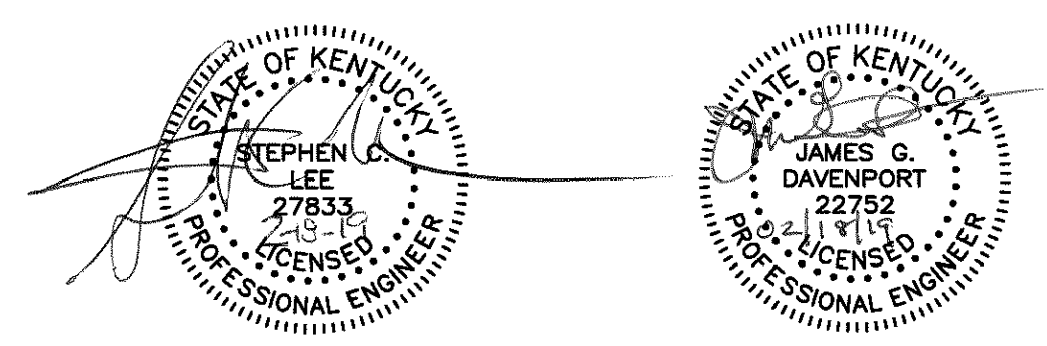




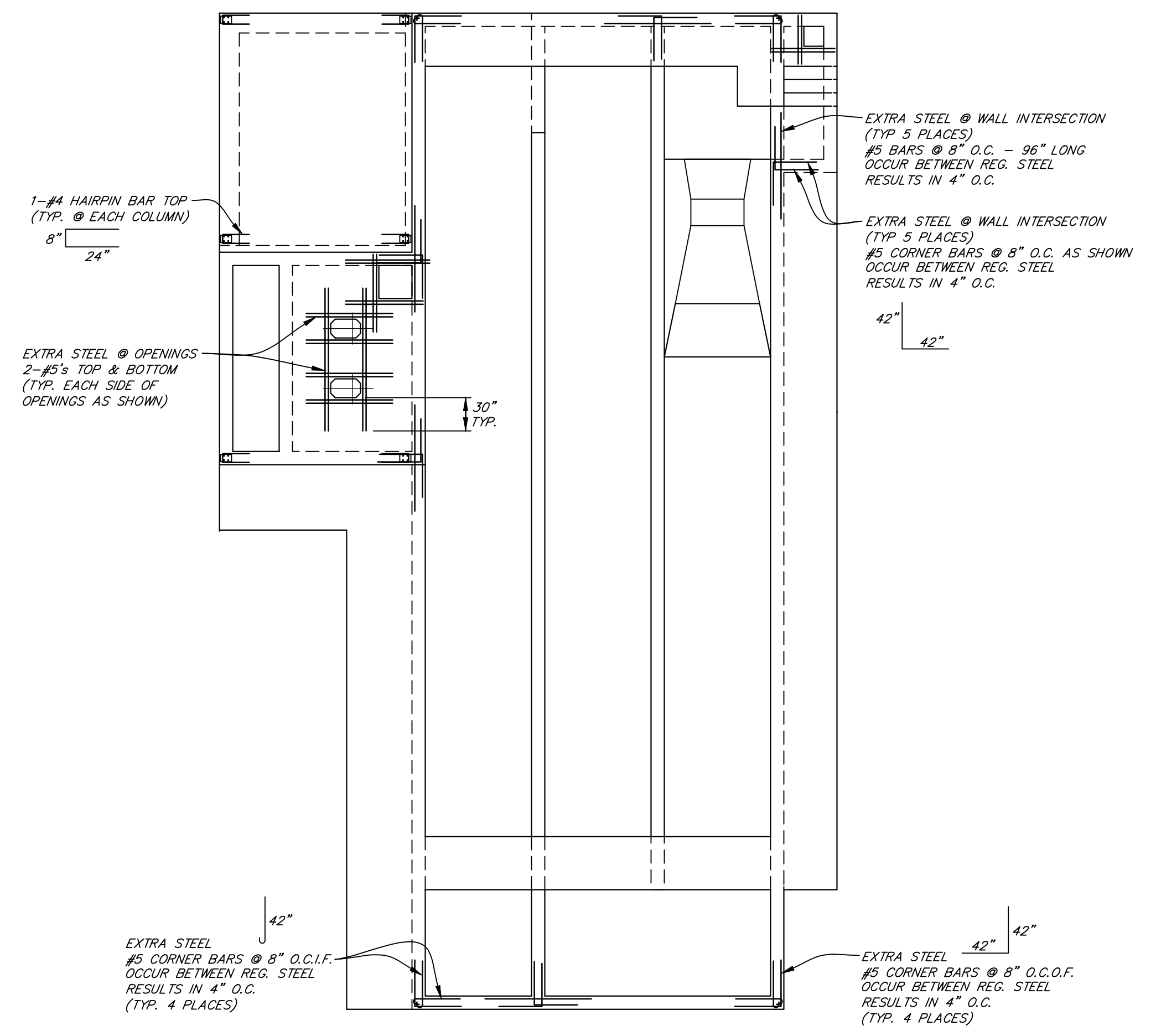
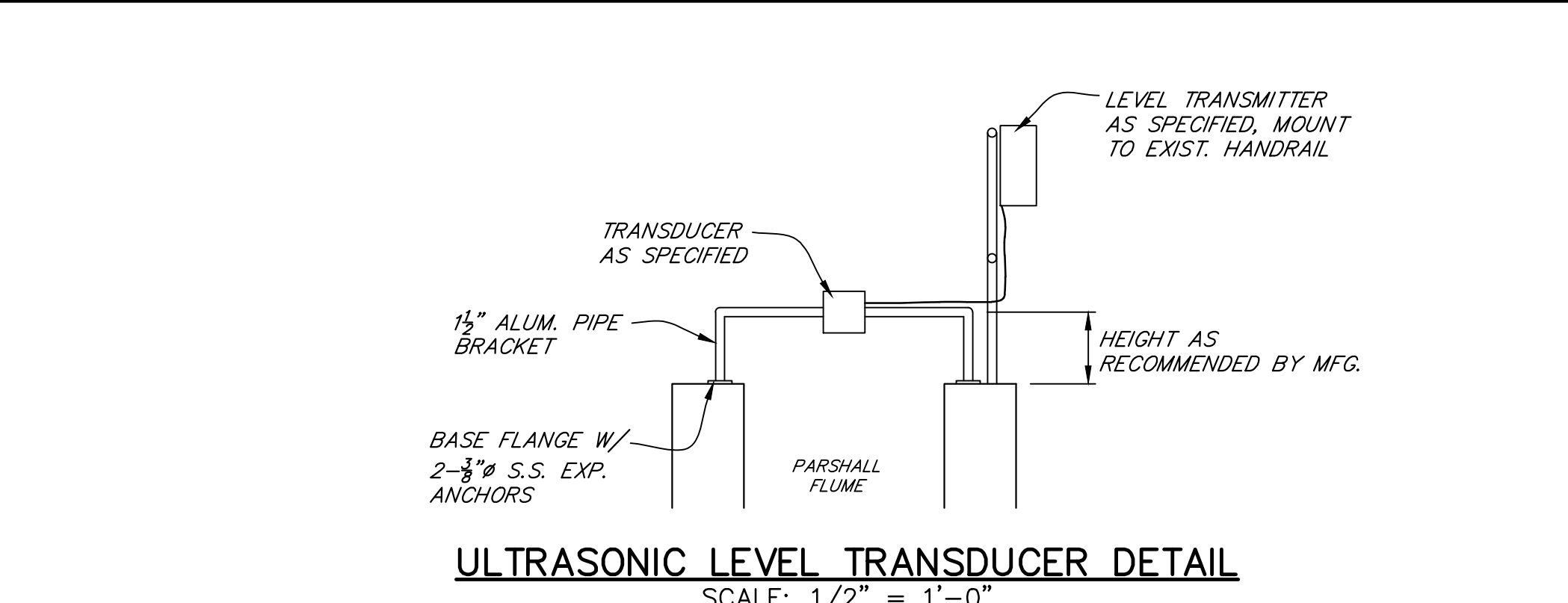
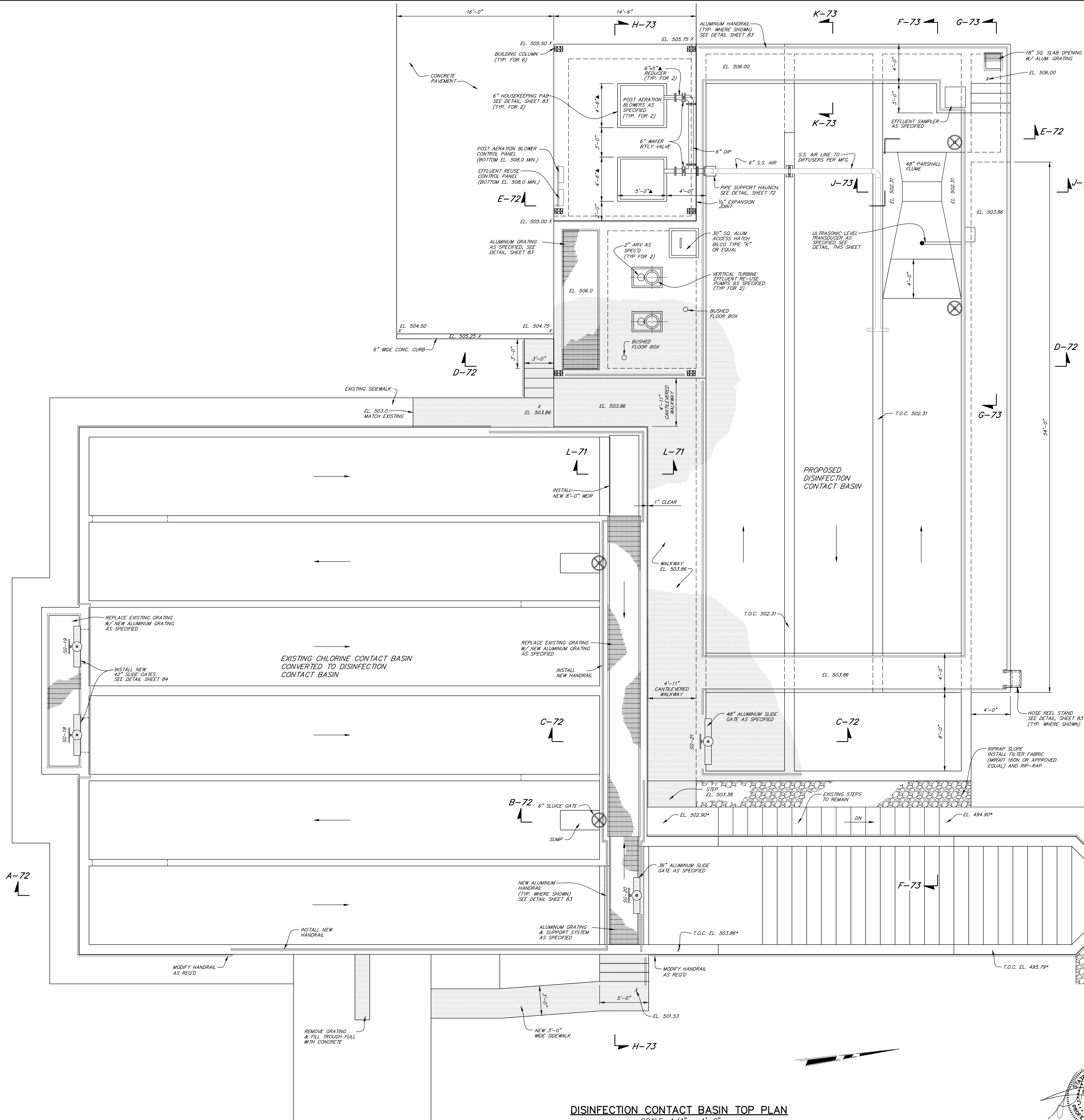
BIOSOLIDS DEWATERING BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"

CONSTRUCTION NOTES

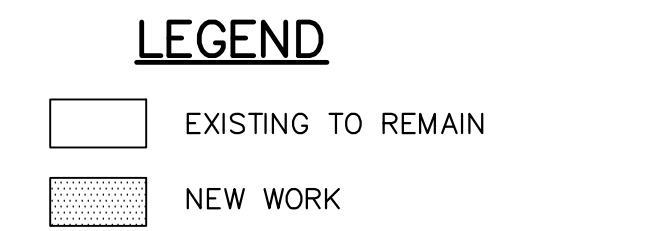
1. SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
2. SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET 81.
3. * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
4. ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
6. SEE MASONRY DETAILS ON SHEET 81.



SHEET 65 OF 97	REVISIONS	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION
	ADDENDUM NO. 3 1/10/20 AWR	
BIOSOLIDS DEWATERING BUILDING FLOOR PLAN		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY
SCALE AS SHOWN	DESIGNED SCL	
PROJECT NUMBER 1983	DATE FEB. 2019	DRAWN AWR
J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com		CHECKED JGD

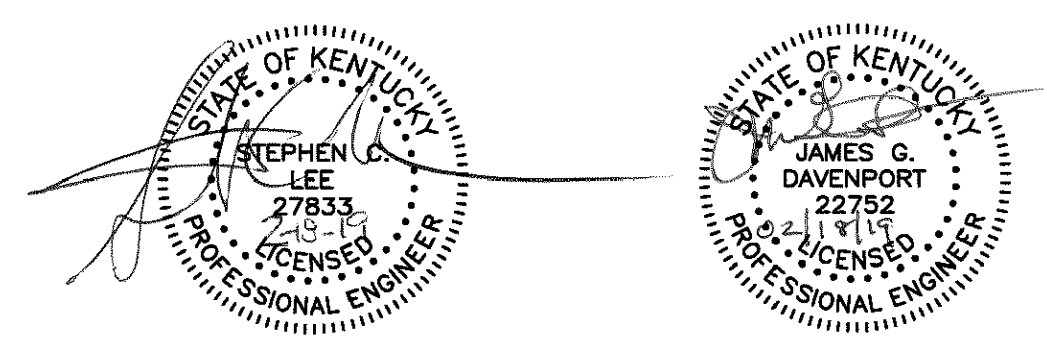


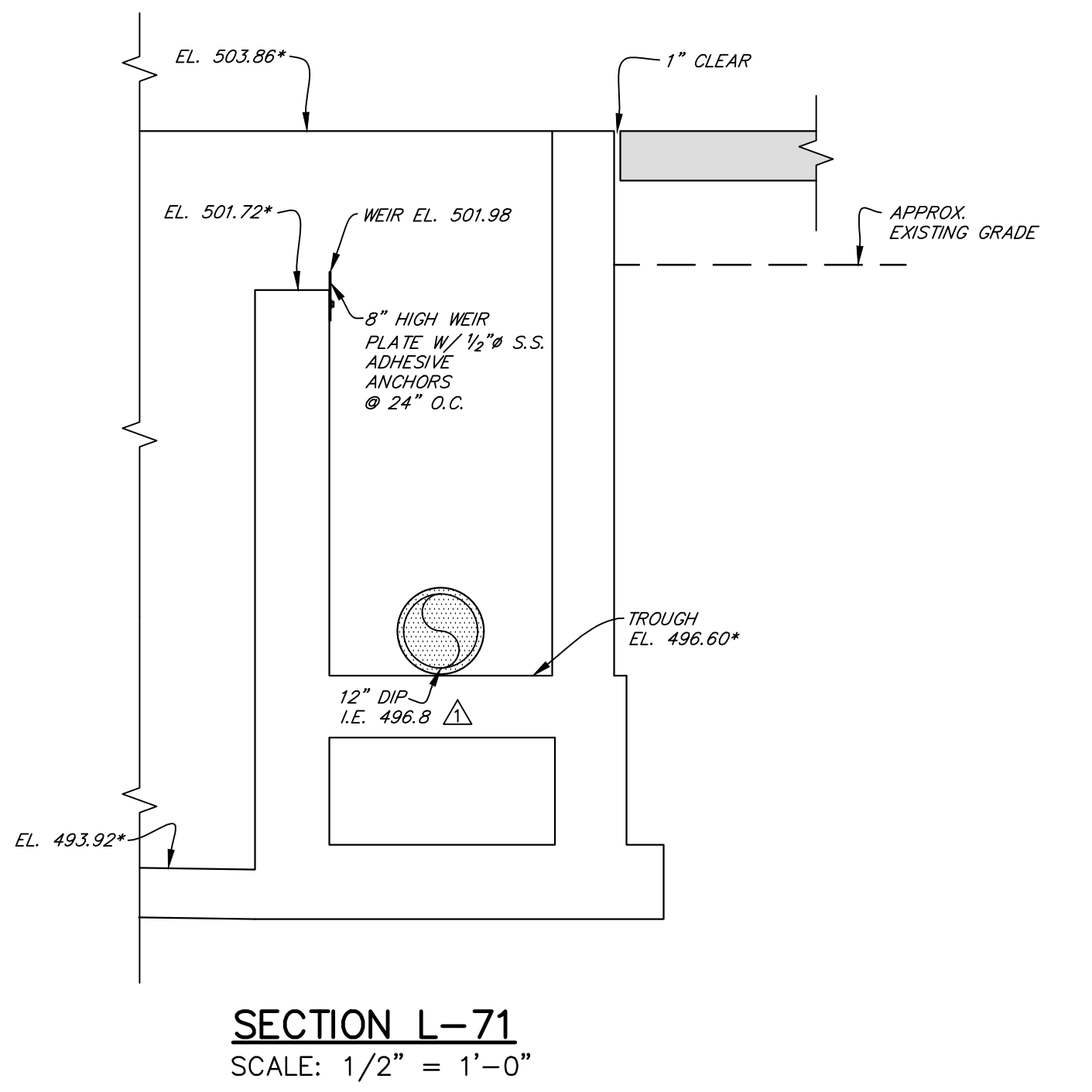
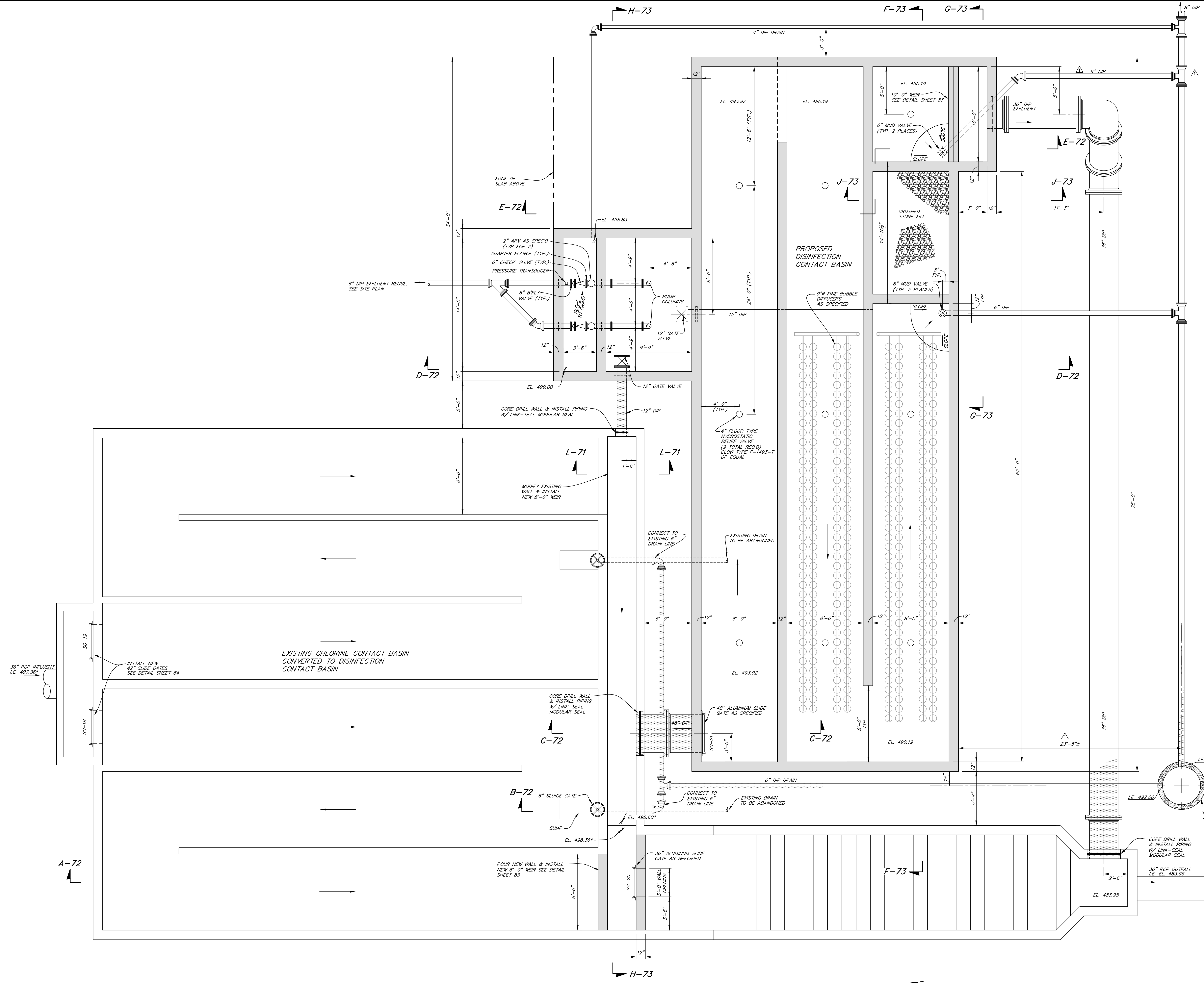
- CONSTRUCTION NOTES**
- SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
 - SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET 81.
 - * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
 - ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
 - ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL WITH NEVERSEIZE OR EQUAL APPLIED TO THE THREADS.
 - ALL HATCHES SHALL HAVE ALUMINUM OR FIBERGLASS FALL PROTECTION GRATE.



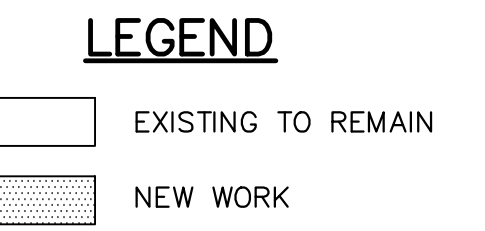
DISINFECTION CONTACT BASIN TOP PLAN
SCALE: 1/4" = 1'-0"

SHEET 70 OF 97	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
	REVISIONS ADDENDUM NO. 3 1/10/20 AWR	DISINFECTION CONTACT BASIN TOP PLAN AND DETAILS
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY		
SCALE AS SHOWN	DESIGNED SCL	DRAWN WCB
PROJECT NUMBER 1983	DATE FEB. 2019	



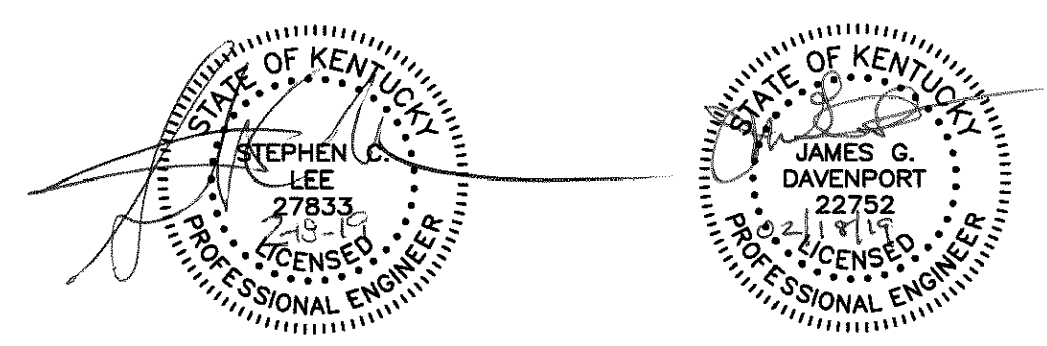


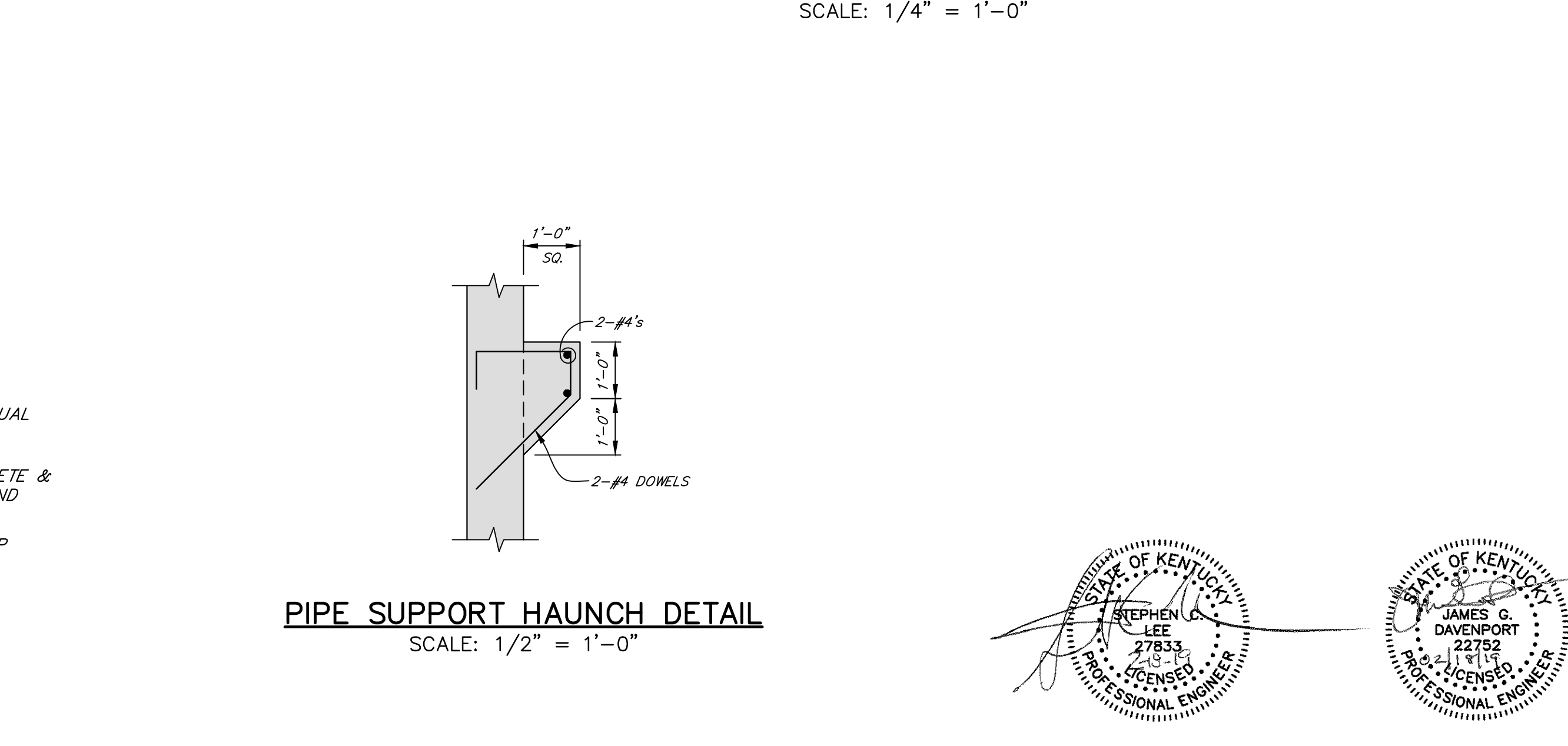
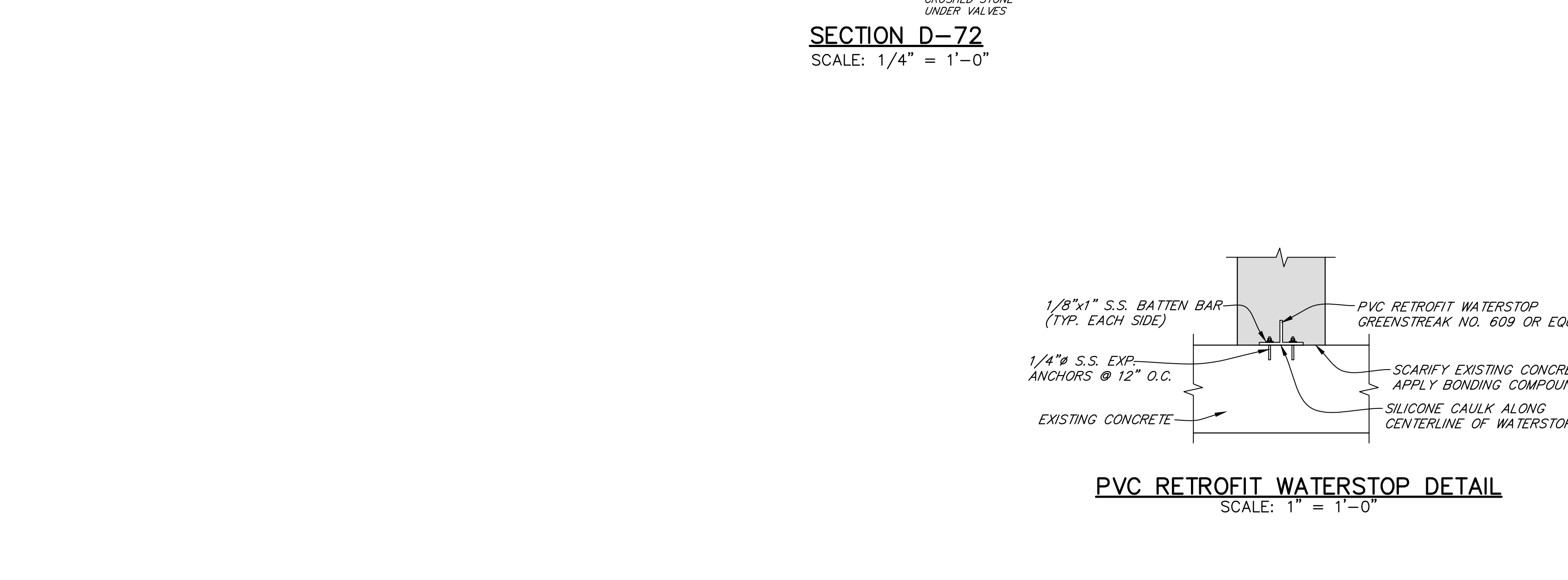
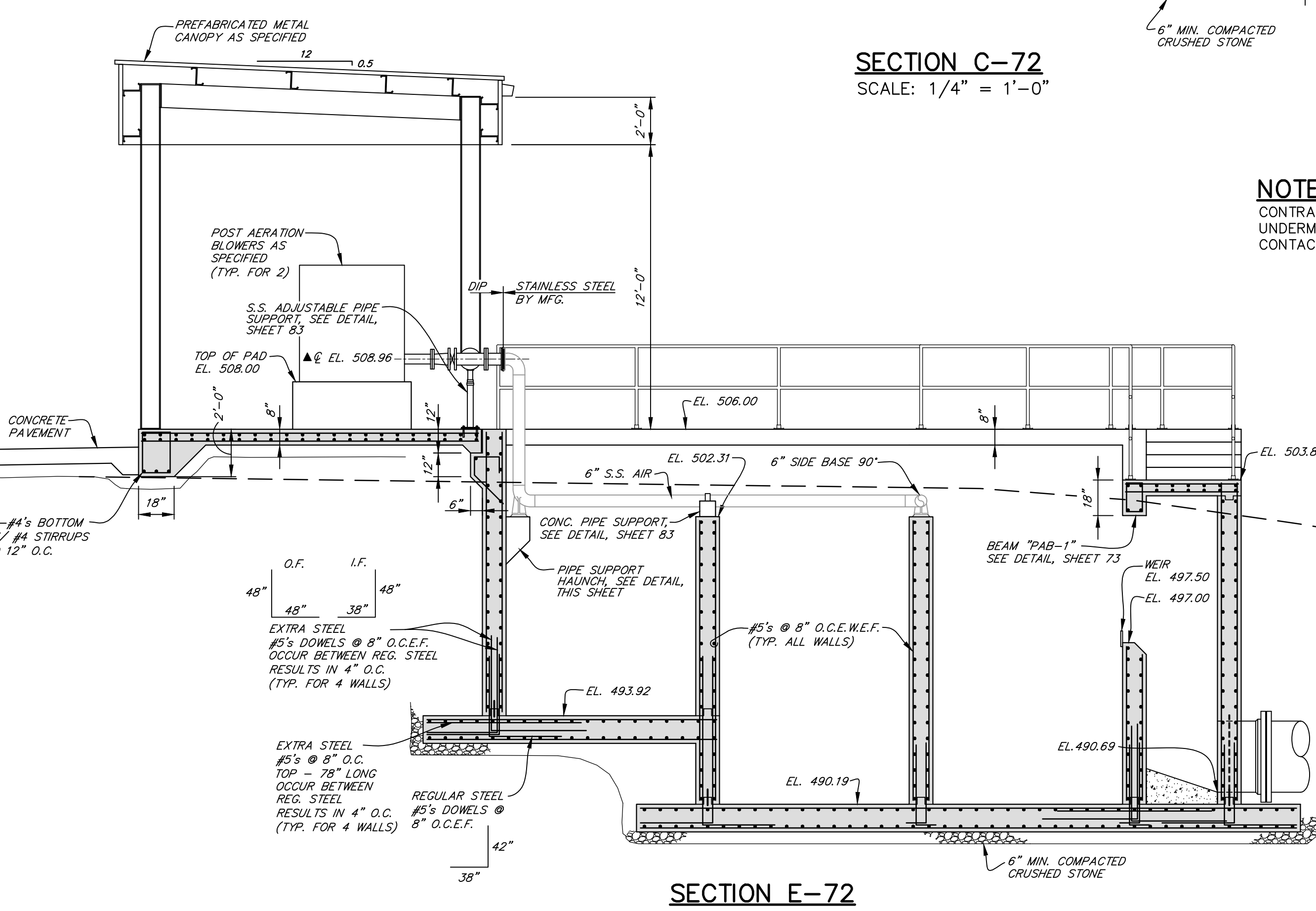
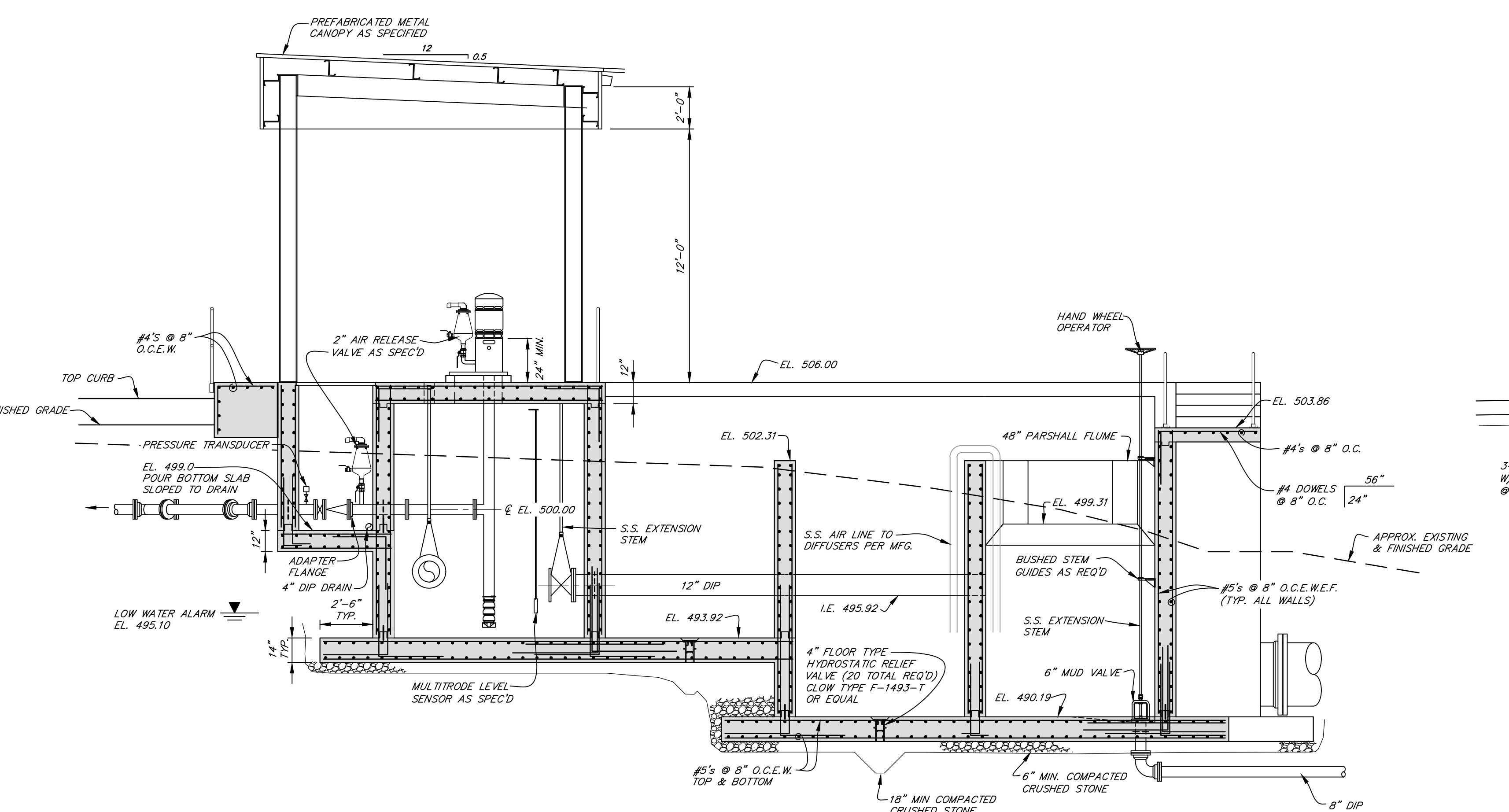
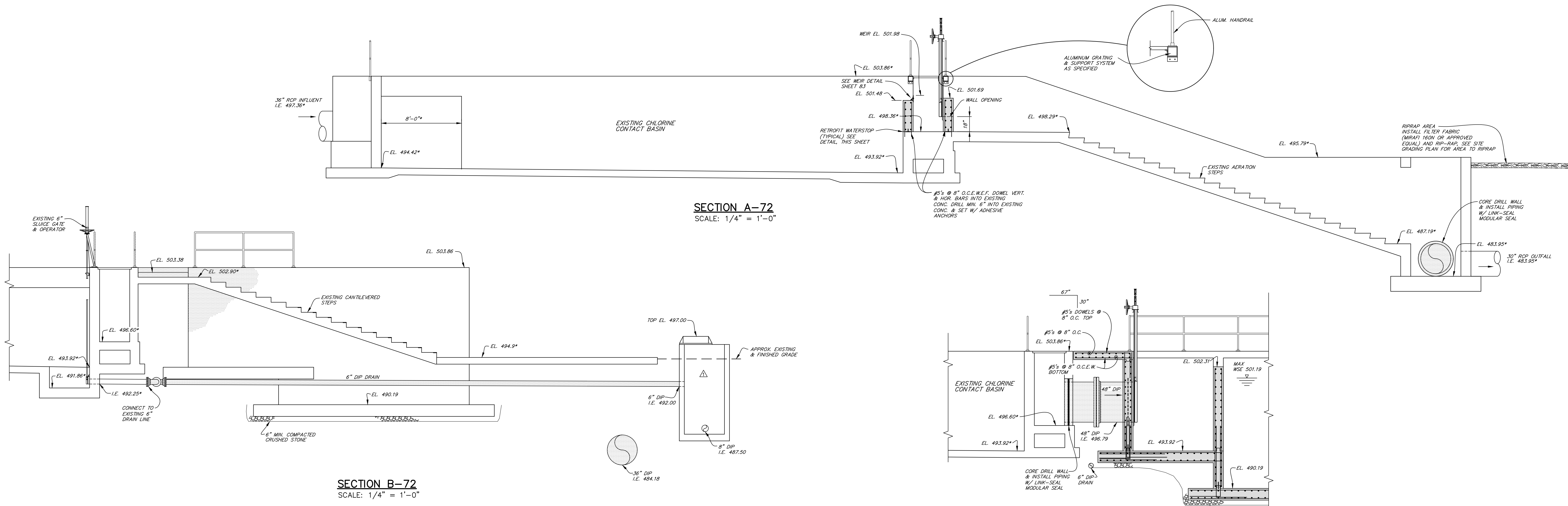
- CONSTRUCTION NOTES**
1. SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
 2. SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET 81.
 3. * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
 4. ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
 5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
 6. ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL WITH NEVERSEIZE OR EQUAL APPLIED TO THE THREADS.



EXISTING CHLORINE CONTACT /
NEW PERACETIC ACID CONTACT BASIN WALL PLAN
SCALE: 1/4" = 1'-0"

SHEET 71 OF 97	REVISIONS	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION
	ADDENDUM NO. 3 1/10/20 AWR	
DISINFECTION CONTACT BASIN WALL PLAN AND DETAILS		DESIGNED SCL
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY		
SCALE AS SHOWN	DATE FEB. 2019	DESIGNED SCL DRAWN WCB CHECKED JGD
PROJECT NUMBER 1983	DATE FEB. 2019	J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com



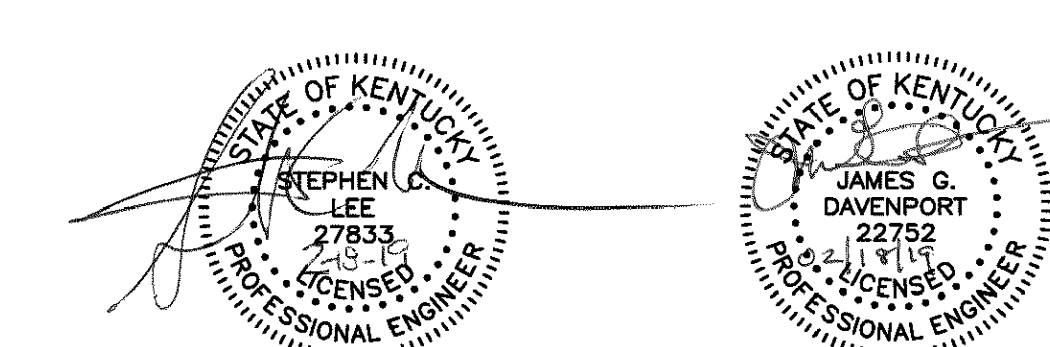
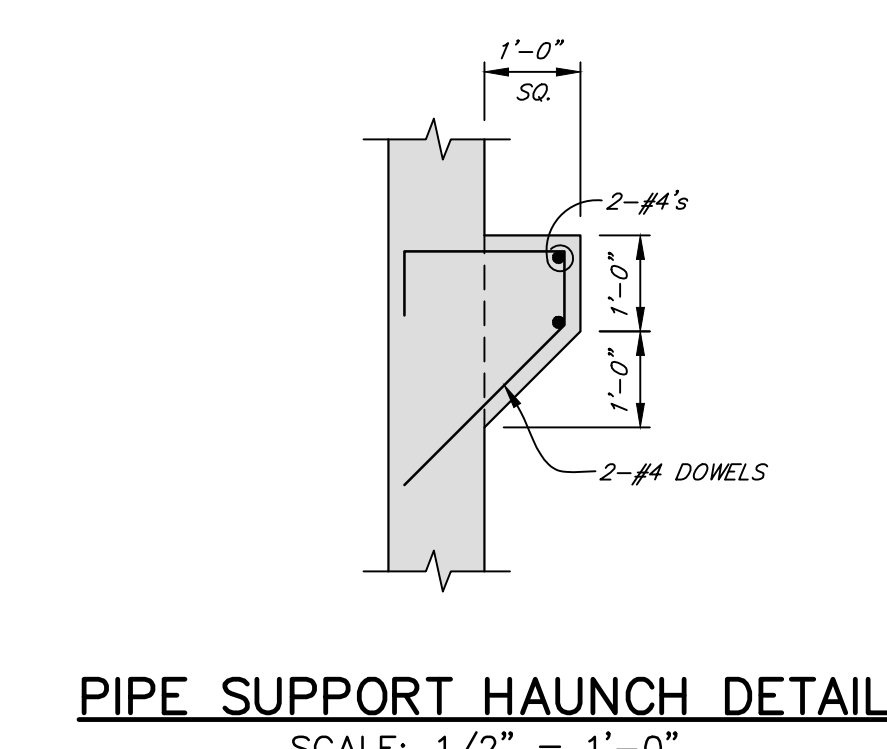
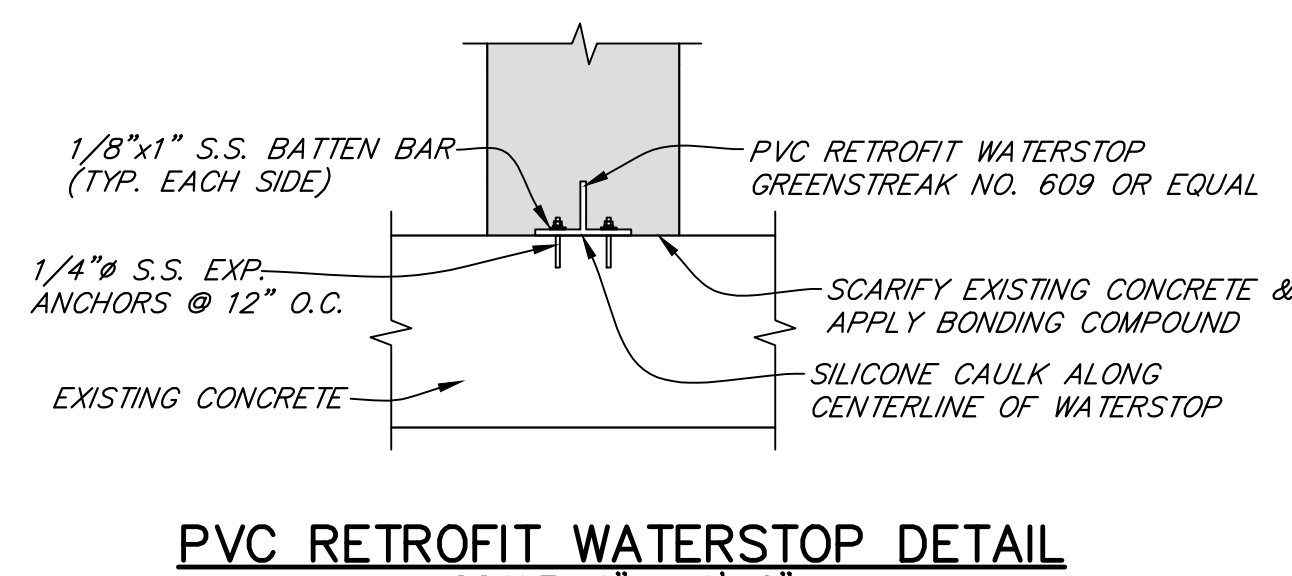


NOTES
CONTRACTOR SHALL USE CARE NOT TO UNDERMINE THE EXISTING CHLORINE CONTACT BASIN.

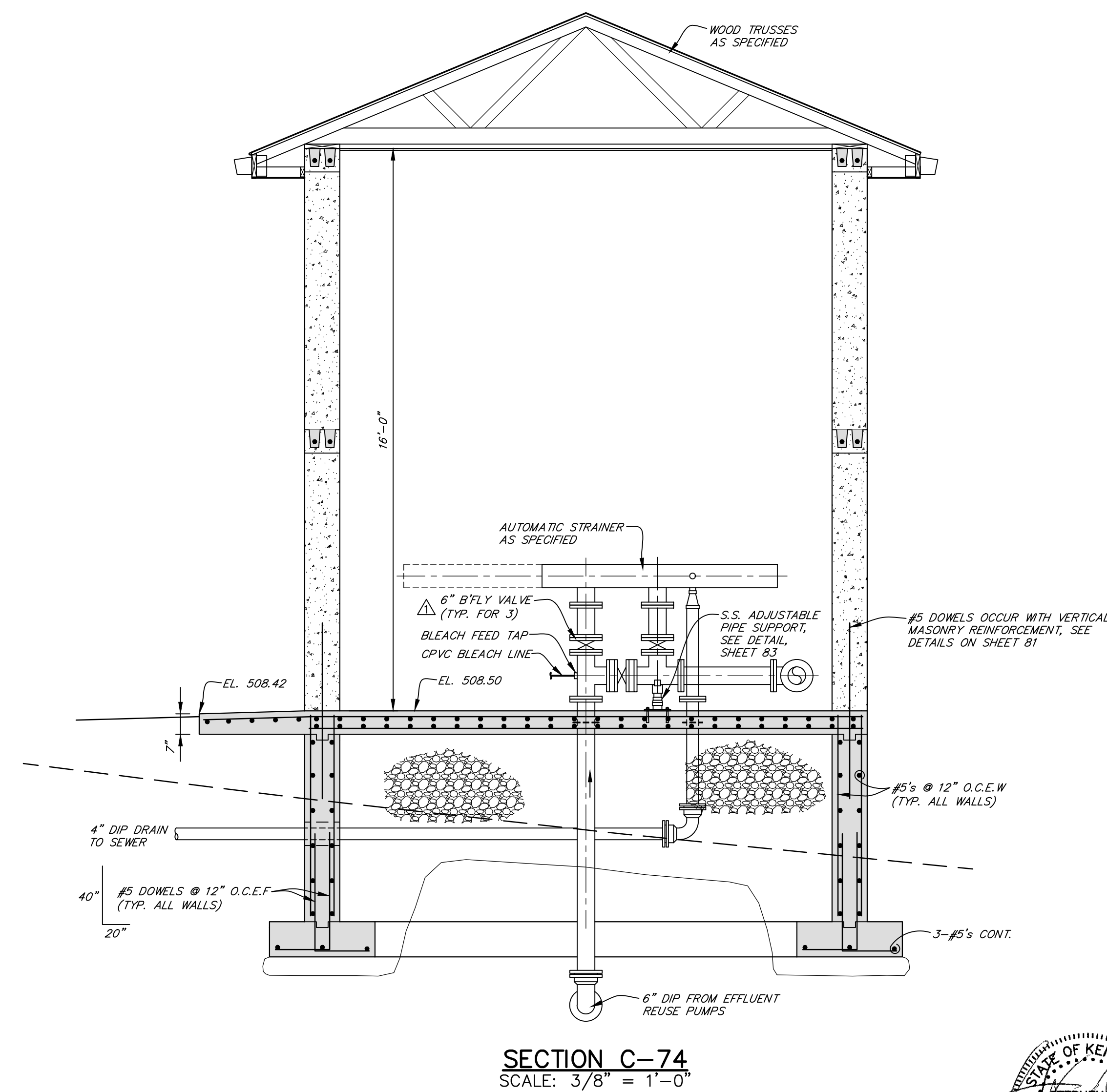
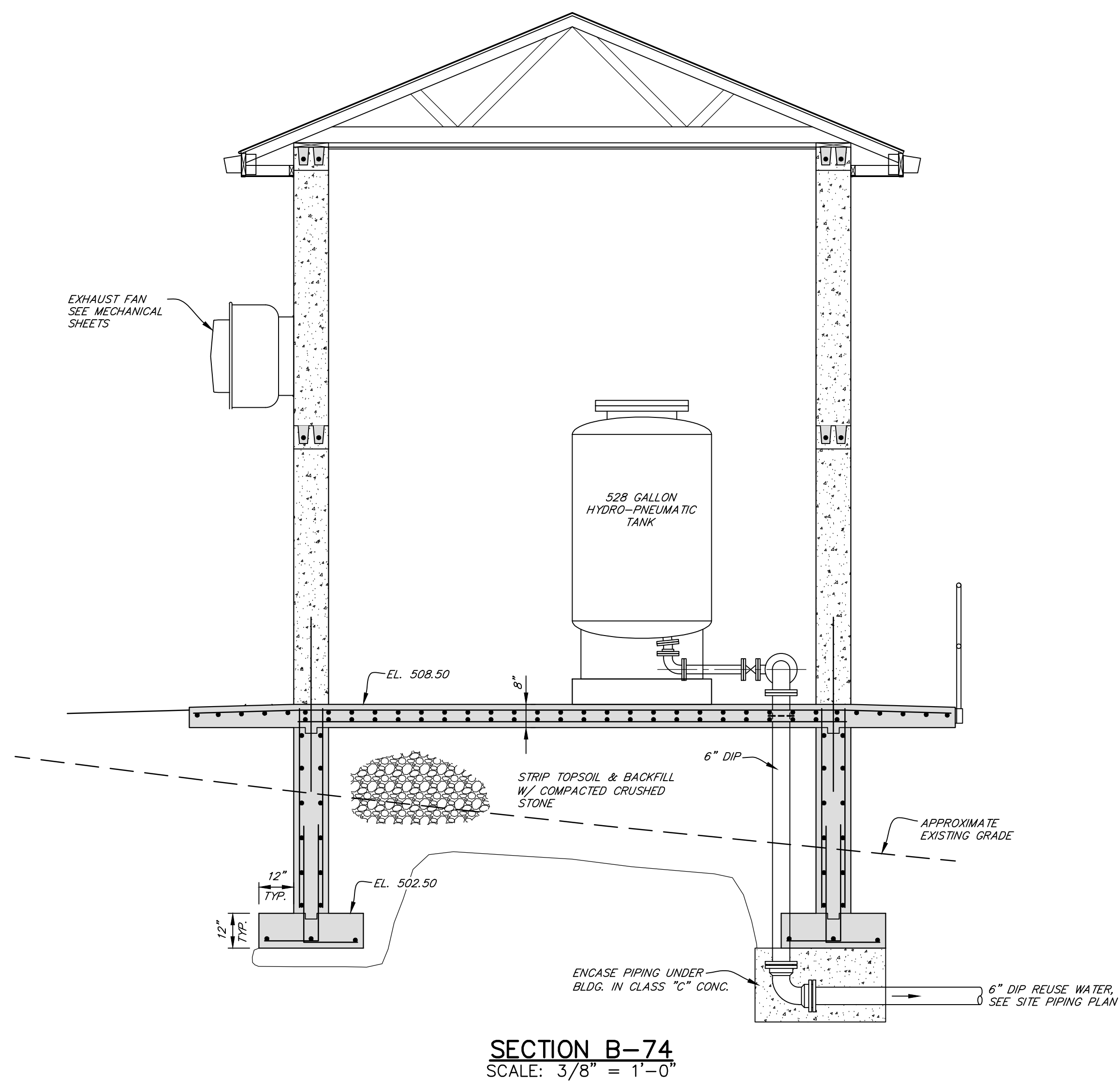
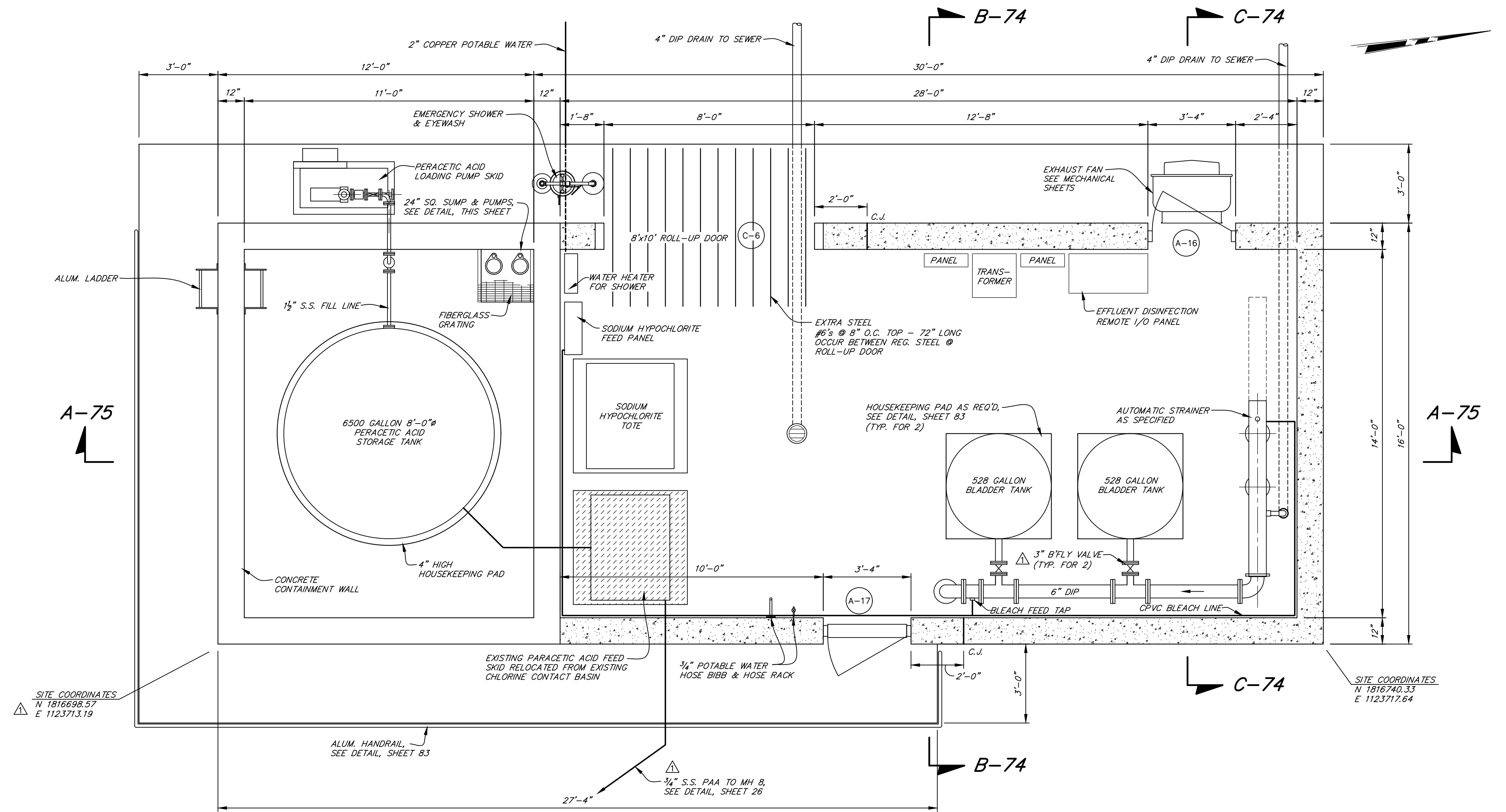
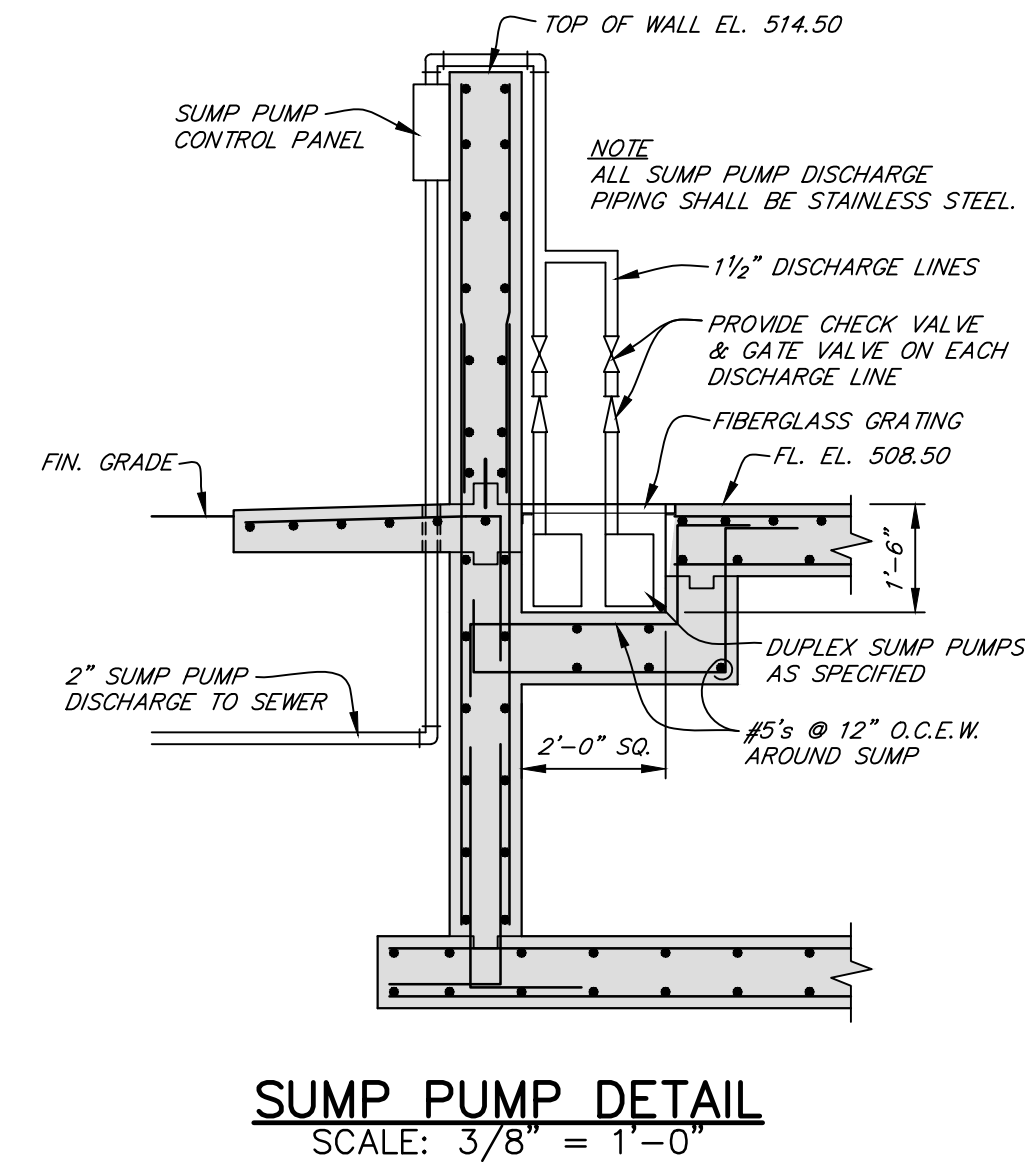
LEGEND

[Hatched Box]	EXISTING TO REMAIN
[Solid Box]	NEW WORK

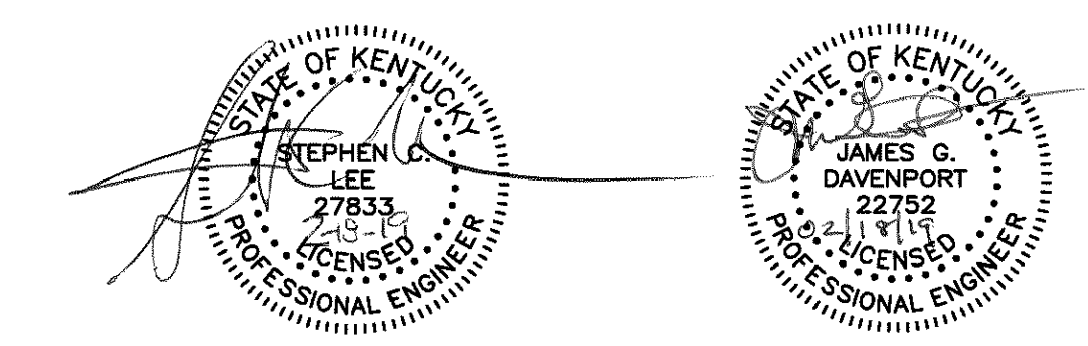
- CONSTRUCTION NOTES**
- SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
 - SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET 81.
 - * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
 - ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
 - ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL WITH NEVERSEIZE OR EQUAL APPLIED TO THE THREADS.



SHEET 72 OF 97		SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01	
REVISIONS ADDENDUM NO. 3 1/10/20 AWR		HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	
DISINFECTION CONTACT BASIN SECTIONS AND DETAILS			
FOR HOPKINSVILLE WATER ENVIRONMENTAL AUTHORITY			
SCALE	AS SHOWN	DESIGNED WAUFORD	DESIGNED SCL
PROJECT NUMBER 1983	DATE FEB. 2019	DRAWN WCB	CHECKED JGD



- CONSTRUCTION NOTES**
1. SEE "GENERAL NOTES" AND "LEGEND" ON SHEET 1.
 2. SEE "GENERAL STRUCTURAL NOTES AND DETAILS" ON SHEET 81.
 3. * INDICATES INFORMATION TAKEN FROM EXISTING PLANS OR FIELD SURVEY WHICH SHALL BE VERIFIED BY THE CONTRACTOR.
 4. ▲ INDICATES INFORMATION WHICH MAY VARY BY MANUFACTURER.
 5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL DIMENSIONS REGARDING THE FABRICATION OF EQUIPMENT AND MATERIALS.
 6. SEE MASONRY DETAILS ON SHEET 81.



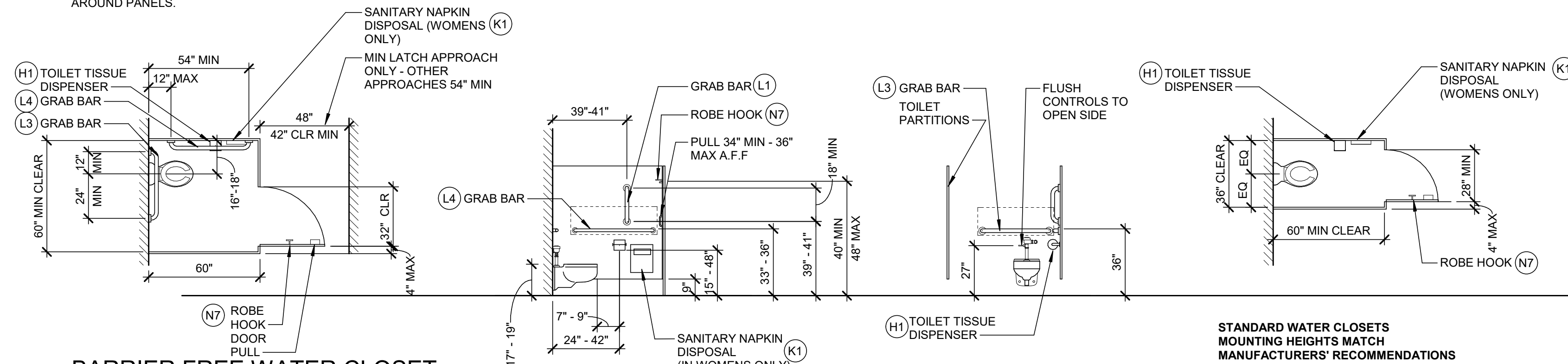
SHEET 74 OF 97	REVISIONS	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	DESIGNED SCL
	ADDENDUM NO. 3 1/10/20 AWR		
EFFLUENT DISINFECTION BUILDING PLAN, SECTIONS AND DETAILS		FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	DRAWN AWR
SCALE AS SHOWN	DATE FEB. 2019		
PROJECT NUMBER 1983	DATE FEB. 2019	J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615) 883-3243 www.jrwauford.com	

TYPICAL MOUNTING HEIGHTS

MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES, AND FIXTURES

NOTE 1:
MOUNTING HEIGHTS SHOWN ARE FOR ACCESSORIES AND FIXTURES REQUIRED UNLESS OTHERWISE NOTED OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS.

NOTE 2:
PROVIDE A SMOOTH, WHITE CLASS A FIRE RESISTANT, SANITARY, MOISTURE RESISTANT, EASY TO CLEAN FIBERGLASS REINFORCED PLASTIC PANEL. SIZE SHALL BE SINK WIDTH BY 24" HIGH x 0.075" MINIMUM THICKNESS. FRP PANELS ARE TO BE PLACED ON BOTH CORNER WALLS OF THE SERVICE SINK AND ADHERED WITH A NON-SILICONE ADHESIVE. PROVIDE SEALANT AS SPECIFIED ALL AROUND PANELS.

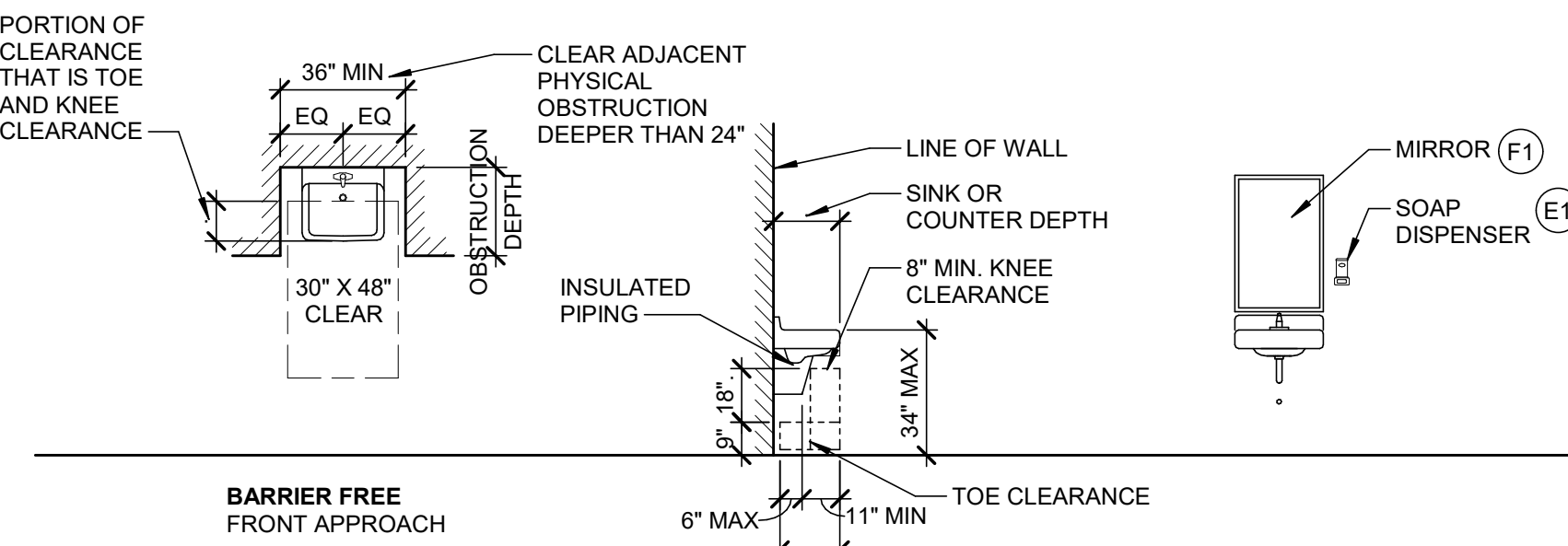


BARRIER FREE WATER CLOSET

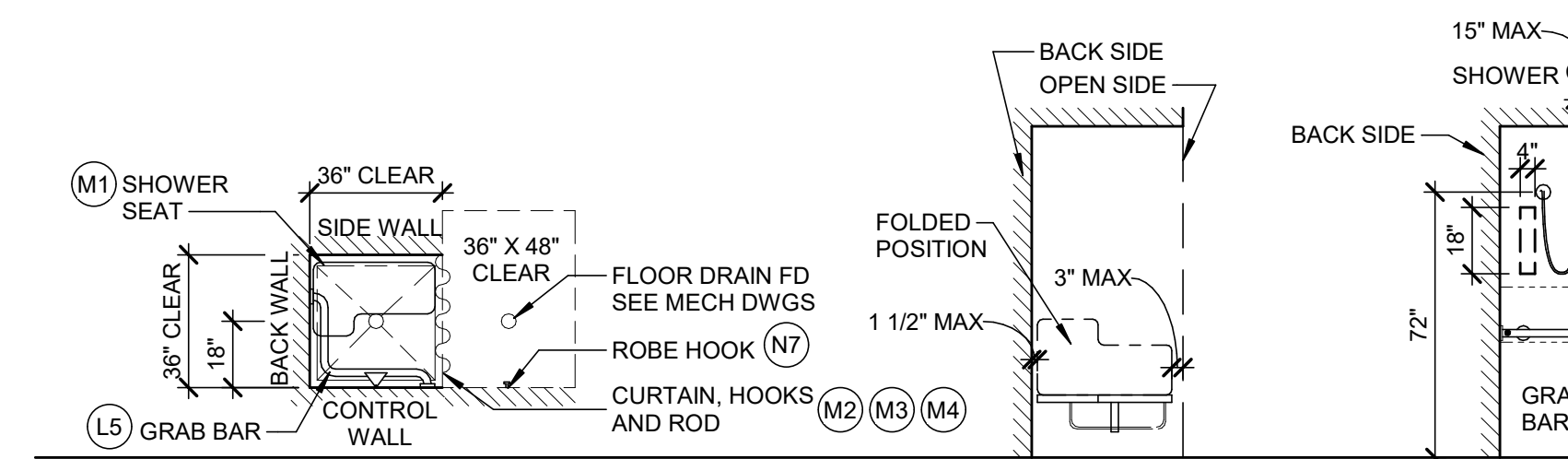
WITH 6" TOE CLEARANCE: WALL-HUNG 56" CLR MIN FLOOR-MOUNTED 58" CLR MIN WITHOUT TOE CLEARANCE WALL-HUNG 62" CLR MIN FLOOR-MOUNTED 65" CLR MIN

(L4) 42" STRAIGHT BOBRICK B-6806X42
(L3) 36" STRAIGHT BOBRICK B-6806X36
(L1) 18" STRAIGHT BOBRICK B-6806X36

(H1) TOILET TISSUE DISPENSER BOBRICK B-2888
(K1) NAPKIN DISPOSAL BOBRICK B-270
(N7) ROBE HOOK BOBRICK B-6717



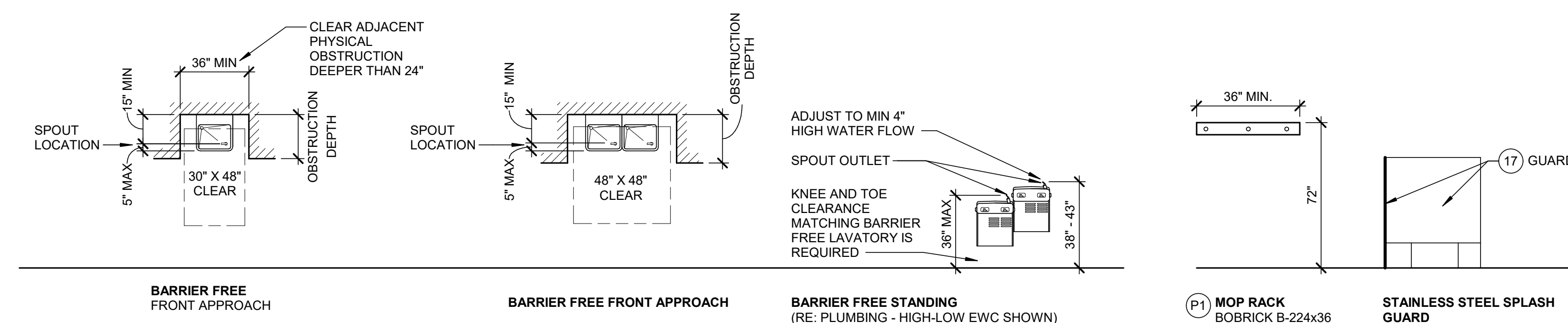
LAVATORY



SHOWER STALL AND ACCESSORIES

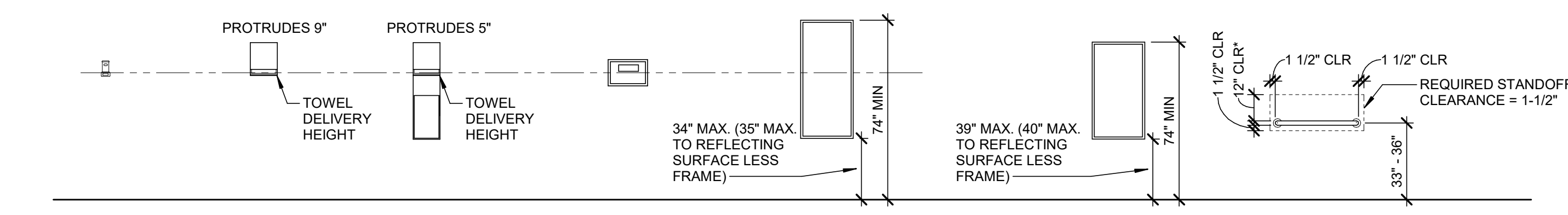
(M1) SHOWER SEAT BOBRICK B-5181
(N7) ROBE HOOK BOBRICK B-6727

(L5) 2-WALL 18"x33" BOBRICK B-6861
(M2) CURTAIN, HOOKS, AND ROD BOBRICK B-204-2, B-204-1, AND B-6047



DRINKING FOUNTAINS

ELECTRIC WATER COOLER (EWC) SHOWN

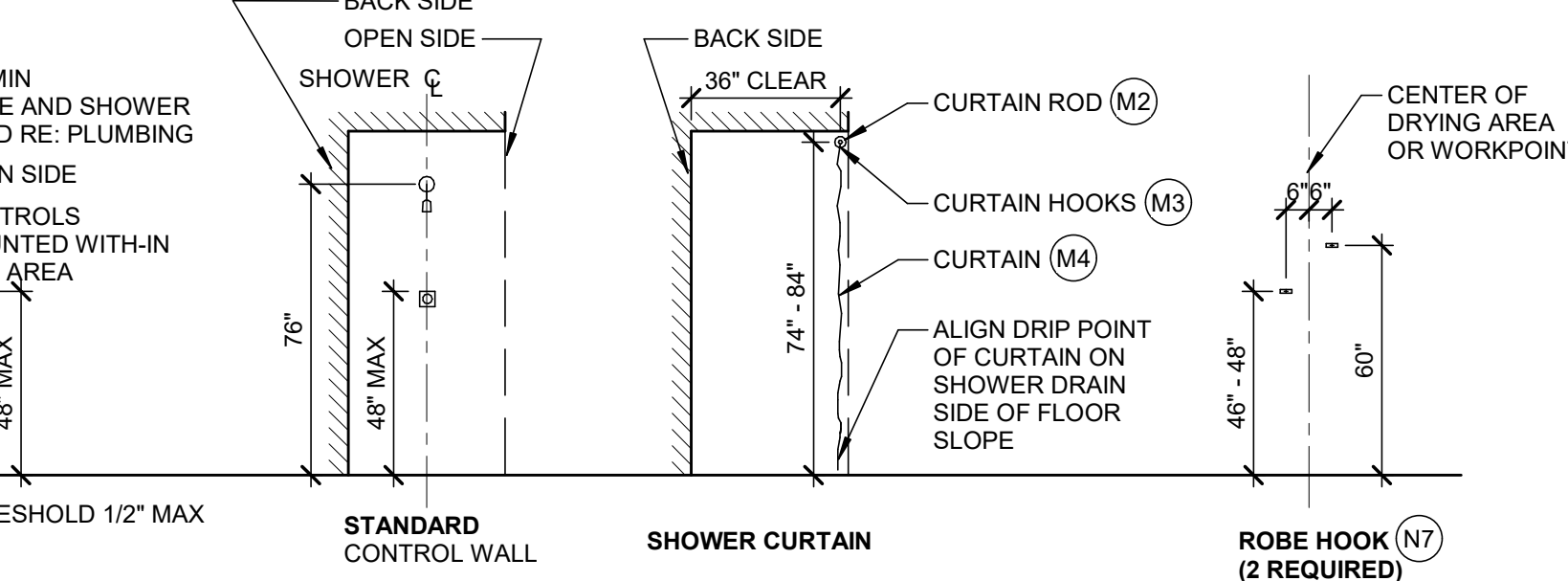


TOILET ACCESSORIES

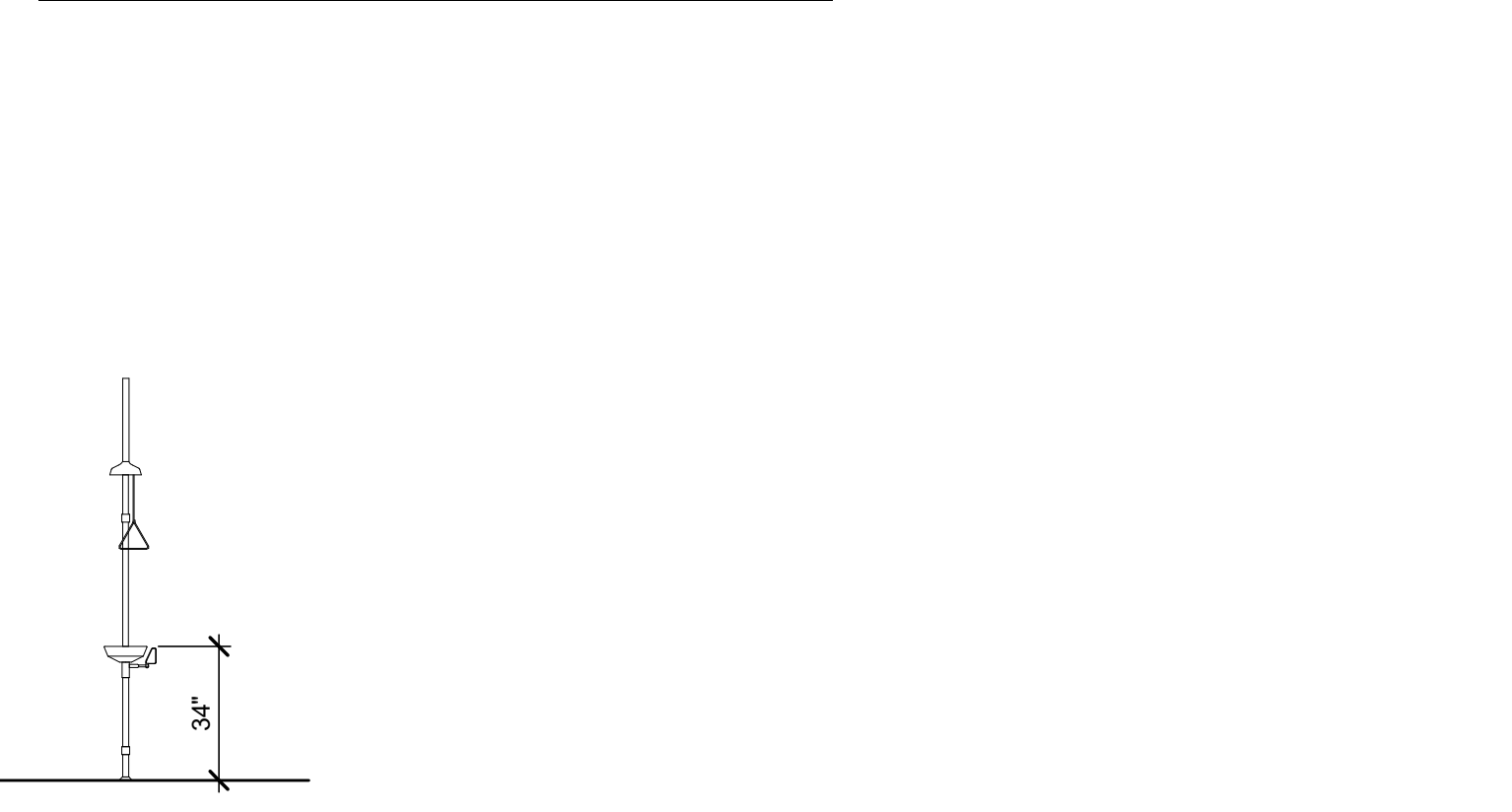


STANDARD WATER CLOSETS
MOUNTING HEIGHTS MATCH
MANUFACTURERS' RECOMMENDATIONS

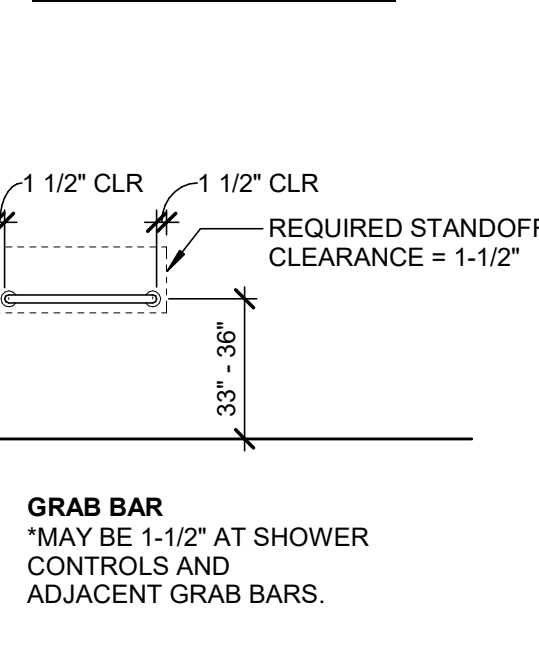
URINALS



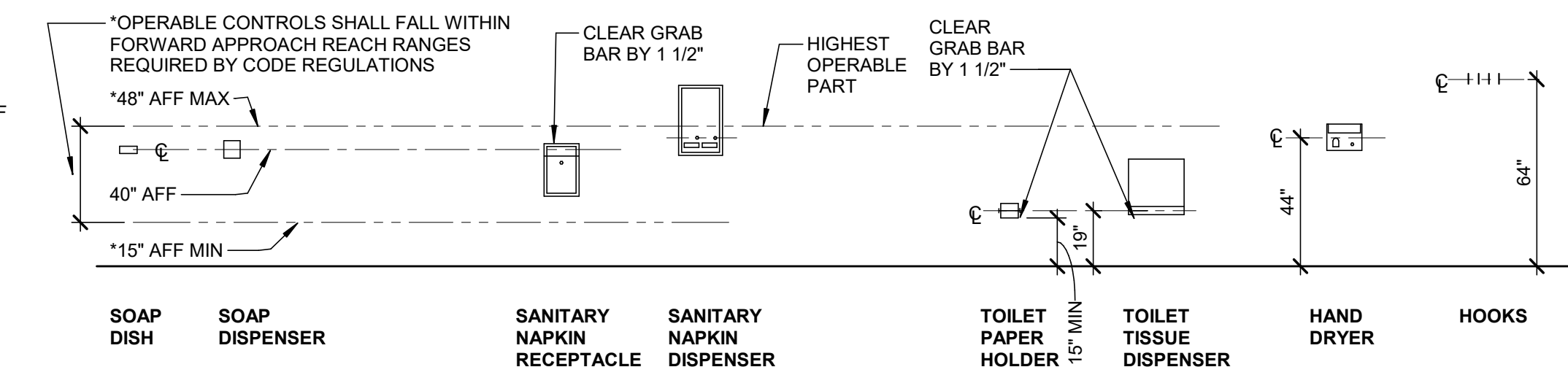
MISCELLANEOUS ACCESSORIES



JANITORIAL ACCESSORIES



SAFETY AND FIRE PROTECTION ACCESSORIES

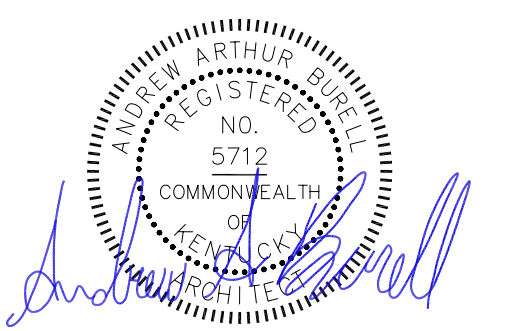


ACCESSORY/EQUIPMENT SCHEDULE

KEY	ITEM NAME	COMMENTS
A3	SURFACE MOUNTED ROLL PAPER TOWEL DISPENSER	CFCI
B2	SURFACE MOUNTED HAND DRYER: ACCESSIBLE	CFCI
C4	(SEMI) RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE (TALL)	CFCI
E1	SURFACE MOUNTED LIQUID SOAP DISPENSER	CFCI
F1	FRAMED MIRROR: MFR STANDARD SIZE	CFCI
H1	TOILET PARTITION MOUNTED TOILET TISSUE DISPENSER, DUAL-ROLL	CFCI
K1	TOILET PARTITION MOUNTED FEMININE NAPKIN DISPOSAL	CFCI
L1	STAINLESS STEEL GRAB BAR 18" (VERTICAL)	CFCI
L2	STAINLESS STEEL GRAB BAR 36"	CFCI
L3	STAINLESS STEEL GRAB BAR 42"	CFCI
L5	STAINLESS STEEL GRAB BAR 30" OR STAINLESS STEEL GRAB BAR - TWO-WALL	CFCI
M1	FOLDING SHOWER SEAT	CFCI
M2	SHOWER CURTAIN ROD & HOOKS	CFCI
M4	VINYL SHOWER CURTAIN	CFCI
M8	BENCH	CFCI
N7	ROBE HOOK	CFCI
P1	MOP & BROOM HOLDER	CFCI
Q1	WALL MOUNTED TELEVISION, SIZE DETERMINED BY OWNER	CONTRACTOR TO VERIFY WITH OWNER ON FINAL LOCATION, MOUNTING HEIGHTS, AND OVERLAP/STABILIZING REQUIREMENTS BY CONTRACTOR
Q2	WALL MOUNTED TELEVISION, SIZE DETERMINED BY OWNER	BY CONTRACTOR
Q3	WHITE BOARD/TACK BOARD, WALL MOUNTED	BY CONTRACTOR
Q4	METAL LOCKER	NIC
Q6	STACKABLE WASHER/DRYER	BY OWNER
R1	WINDOW SHADES	CFCI
T2	MICROWAVE	CFCI
T3	REFRIGERATOR	CFCI

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	N	NOT APPLICABLE
APC	ACOUSTIC PANEL CEILING	NA	NOT IN CONTRACT
A/C	AIR CONDITIONING	NTS	NOT-TO-SCALE
AT	AT	NO or #	NUMBER
&	AND		
B		O	
BF	BARRIER FREE	OC	ON CENTER
BOS	BOTTOM OF STEEL	OPP	OPPOSITE HAND
		OD	OUTSIDE DIAMETER
		OCC	OCCUPANT/OCCUPANCY
C		P	
CL or C	CENTERLINE	PVC	POLYVINYLCHLORIDE
CFMF	COLD-FORMED METAL FRAMING	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
CJ	CONTROL JOINT / CONSTRUCTION JOINT	PSI	POUNDS PER SQUARE INCH
CG	CORNER GUARD	CONT	CONTINUOUS
CG	CORNER GUARD	CLR	CLEAR
CG	CORNER GUARD	C/C	CENTER TO CENTER
CG	CORNER GUARD	CR	CARD READER
CG	CORNER GUARD	CLG	CLEARANCE
D		R	RADIUS
DA	DIAMETER	DN	DOWN
DN	DOWN	DS	DOWN SPOUT
DS	DOWN SPOUT	DF	DRINKING FOUNTAIN
DF	DRINKING FOUNTAIN	E	
E		S	
ELEC	ELECTRIC / ELECTRICAL	EW	ELECTRIC WATER COOLER
EWC	ELECTRIC WATER COOLER	ELEV	ELEVATION
ELEV	ELEVATION	EQ	EQUAL
EQ	EQUAL	EG	END GUARD
EG	END GUARD	EW	EACH WAY
EW	EACH WAY	F	FIRE EXTINGUISHER
F	FIRE EXTINGUISHER	FEC	FIRE EXTINGUISHER CABINET
FEC	FIRE EXTINGUISHER CABINET	FD	FLOOR DRAIN
FD	FLOOR DRAIN	FN	FINISH
FN	FINISH	FOS	FACE OF STUD
FOS	FACE OF STUD	FRT	FIRE RETARDANT TREATED
FRT	FIRE RETARDANT TREATED	G	
G		GA	GAUGE
GYP BD	GYPSON BOARD	GYP BD	GYPSON BOARD
GYP BD	GYPSON BOARD	GYP BD	GYPSON BOARD
H		U	
HP	HIGH POINT	UL	UNDERWRITERS LABORATORY
HSS	HOLLOW STRUCTURAL STEEL	UNO	UNLESS NOTED OTHERWISE
HSB	HOSE BIB	UC	UNDER COUNTER
I		V	
ID	INSIDE DIAMETER / DIMENSION	VTR	VENT THRU ROOF
J		VCT	VINYL COMPOSITION TILE
JC	JANITORS CLOSET	VEND	VENDING MACHINE
L		WC	WATER CLOSET
LAV	LAVATORY	WWR	WELDED WIRE REINFORCEMENT
LF	LINEAR FEET/FOOT	w/	WITH
LLH	LONG LEG HORIZONTAL	w/o	WITHOUT
LLV	LONG LEG VERTICAL	WP	WORKING POINT
LPT	LOW POINT	X	
LB or #	POUNDS	x	BY (AS IN 2x4)
LOCK	LOCKABLE	M	
M		MFG	MANUFACTURER
MFG	MANUFACTURER	MO	MASONRY OPENING
MO	MASONRY OPENING	MISC	MISCELLANEOUS
MISC	MISCELLANEOUS	MIN	MINIMUM
MIN	MINIMUM	MAX	MAXIMUM
MAX	MAXIMUM	MTL	METAL
MTL	METAL	MW	MICROWAVE
MW	MICROWAVE		



01.06.2020

SHEET	A2	OF	11
REVISIONS			
ADDENDUM NO. 3	1/10/20	BD	
SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01 HAMMOND - WOOD WASTEWATER TREATMENT PLANT EXPANSION			
AE-004 TYPICAL MOUNTING HEIGHTS			
FOR HOPKINSVILLE WATER ENVIRONMENT AUTHORITY			
SCALE	AS SHOWN	DATE	08/23/18
PROJECT NUMBER	1983 & 017-01562-00	DESIGNED	D. HUFF
		DRAWN	B. DEAN
		CHECKED	A. BURELL



WAUFORD

J. R. Wauford & Company, Consulting Engineers, Inc.
Nashville, Tennessee
(615)883-3243
www.jrwauford.com

CODE INFORMATION:

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE (IBC) MODIFIED BY THE KENTUCKY BUILDING CODE (2018)
 2015 INTERNATIONAL MECHANICAL CODE
 2012 INTERNATIONAL FIRE CODE
 2012 INTERNATIONAL ENERGY CONSERVATION CODE
 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
 2013 KENTUCKY STATE PLUMBING LAW, REGULATIONS & CODE
 2012 NFPA 1 FIRE PREVENTION CODE
 2010 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 2009 NFPA 54 NATIONAL FUEL GAS CODE
 2017 NFPA 70 NATIONAL ELECTRICAL CODE
 2010 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
 2012 NFPA 101 LIFE SAFETY CODE

TYPE OF PROJECT: NEW 5,400 SQUARE FOOT, SINGLE STORY OPERATIONS AND MAINTENANCE BUILDING FOR THE HOPKINSVILLE HAMMOND WOOD WASTEWATER TREATMENT PLANT WITH LAB SPACE, OFFICES, CONFERENCE, WORK ROOM, AND SECURITY CONTROL ROOM WITH ACCESSORY RESTROOMS, MECHANICAL, ELECTRICAL, AND STORAGE SPACES.

CONSTRUCTION CLASSIFICATION (IBC 602.1): IIB

BUILDING OCCUPANCY CLASSIFICATION: BUSINESS GROUP B

BUILDING AREA:
 ALLOWABLE AREA (IBC TABLE 503): 23,000 SF
 ACTUAL BUILDING AREA (GROSS): 5,400 SF

BUILDING HEIGHT/STORIES:
 ALLOWABLE HEIGHT/STORIES (IBC TABLE 503): 55 FT. / 3 STORIES
 ACTUAL BUILDING HEIGHT: 17 FT. / 1 STORY

FIRE RESISTANCE RATINGS: (IBC TABLE 601) REQUIRED

STRUCTURAL FRAME INCLUDING COLUMNS, BEAMS, TRUSSES: 0 HOUR
 BEARING WALLS - EXTERIOR: 0 HOUR
 INTERIOR: 0 HOUR
 NON BEARING WALLS & PARTITIONS - (IBC TABLE 602) EXTERIOR: 0 HOUR
 INTERIOR: 0 HOUR
 FLOOR CONSTRUCTION: 0 HOUR
 ROOF CONSTRUCTION: 0 HOUR

SEPARATION OF INCIDENTAL USES (IBC TABLE 509) LAUNDRY ROOMS OVER 100 SF: 1 HOUR OR PROVIDE AUTOMATIC SPRINKLER SYSTEM

OCCUPANT LOAD:

OCCUPANCY SCHEDULE

NUMBER	ROOM NAME	AREA	ROOM OCCUPANCY TYPE	OCCUPANT LOAD MULTIPLIER	OCCUPANCY CALC.
100	ENTRY	212 SF	Business	100	3
101	PLANT CONTROL	244 SF	Business	100	3
102	CORRIDOR	197 SF	Unoccupiable	0	3
103	JAN	53 SF	Accessory storage Areas, mechanical equipment room	300	1
104	WOMEN'S	162 SF	Unoccupiable	0	
105	CORRIDOR	85 SF	Unoccupiable	0	
106	MEN'S	207 SF	Unoccupiable	0	
107	COLLABORATION	368 SF	Assembly, Less concentrated use, without fixed seating	15	25
108	WORK ROOM/LIBRARY	197 SF	Assembly, Less concentrated use, without fixed seating	15	14
109	LAB	940 SF	Business	100	10
110	MECH/ELEC	181 SF	Accessory storage Areas, mechanical equipment room	300	1
111	STORAGE	81 SF	Accessory storage Areas, mechanical equipment room	300	1
112	CORRIDOR	86 SF	Unoccupiable	0	
113	CORRIDOR	131 SF	Unoccupiable	0	
114	OFFICE	172 SF	Business	100	2
115	CORRIDOR	119 SF	Unoccupiable	0	
116	OFFICE	172 SF	Business	100	2
117	CONFERENCE	950 SF	Assembly, Concentrated use, without fixed seating	7	138
		4537 SF			198

STORAGE 111:
 WALLS RATED 1 HOUR FIRE
 DOOR RATED 45 MIN WITH CLOSER
 NO COMBUSTIBLE/HAZARDOUS MATERIAL STORAGE IN ROOM
 FIRE EXTINGUISHERS (IBC TABLE 906.3):
 MAXIMUM TRAVEL DISTANCE: 75 FEET
 MEANS OF EGRESS:
 MINIMUM EGRESS WITH: 15 INCH PER OCCUPANCY (IBC 1005.3.2) = 30 INCHES REQUIRED
 EGRESS WIDTH PROVIDED:
 36" WIDTH DOORS: 337.15 = 220 OCCUPANCY
 72" WIDTH DOORS: 667.15 = 440 OCCUPANCY
 231 INCHES PROVIDED

COMMON PATH OF EGRESS TRAVEL (IBC TABLE 1014.3):
 B OCCUPANCY: 100 FT (WITH AUTOMATIC SPRINKLERS)
 75 FT (WITHOUT SPRINKLER SYSTEM)

MINIMUM NUMBER OF EXITS (IBC 1015):
 > 49 OCCUPANTS: 1
 > 50-600 OCCUPANTS: MIN 2

EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1016.2):
 B OCCUPANCY: 300 FT (WITH AUTOMATIC SPRINKLERS)
 200 FT (WITHOUT SPRINKLER SYSTEM)

EXIT ACCESS CORRIDORS FIRE-RESISTANCE RATING (IBC TABLE 1018.1):
 B OCCUPANCY: OCCUPANT LOAD IN CORRIDOR > 30:
 0 HOUR W/ SPRINKLER SYSTEM
 1 HOUR WITHOUT SPRINKLER SYSTEM

MINIMUM CORRIDOR WIDTH (IBC TABLE 1018.2): 44"

FIRE PROTECTION SYSTEM:

FIRE SUPPRESSION PROVIDED THROUGHOUT BUILDING

INTERIOR FINISH MATERIALS (IBC CHAPTER 8):

ALL NEW FINISHES WILL MEET THE FOLLOWING REQUIREMENTS:
 CARPET CLASS 1 ASTM E 648 (PILL TEST, ALSO REFERRED TO AS ASTM D2859; NFPA 253; THE NBS SMOKE DENSITY TEST IS DESIGNATED AS ASTM E-662 & NFPA 258)
 VCT FLOORING CLASS 1 ASTM E 648
 CEILING TILE ASTM E 1264, CLASS A
 RUBBER BASE ASTM E84 / NFPA 255 (FLAME / SMOKE) - CLASS A, <450 AND ASTM E 648 (NFPA 253);
 CRITICAL RADIANT FLUX - CLASS 1

INTERIOR FLOOR FINISHES SHALL NOT BE LESS THEN CLASS II AND SHALL COMPLY WITH THE DQFF-1 "PILL TEST".

MINIMUM REQUIREMENTS FOR FLAME SPREAD, SMOKE DEVELOPMENT AND FUEL CONTRIBUTION FOR THE ENCLOSED ROOMS & CORRIDORS SHALL BE CLASS C, EXIT ENCLOSURES AND EXIT PASSAGEWAYS SHALL BE CLASS B. (TABLE 603.9)

BUILDING ENVELOPE REQUIREMENTS (IECC SECTION C402) FOR ZONE 4:

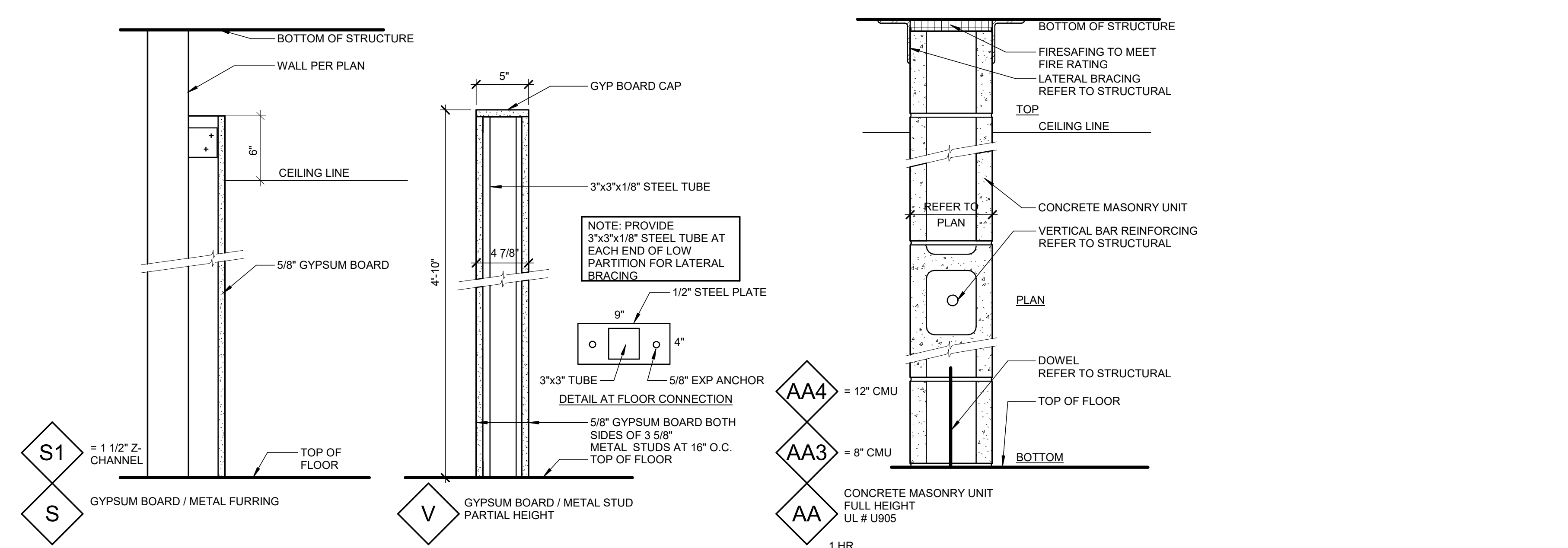
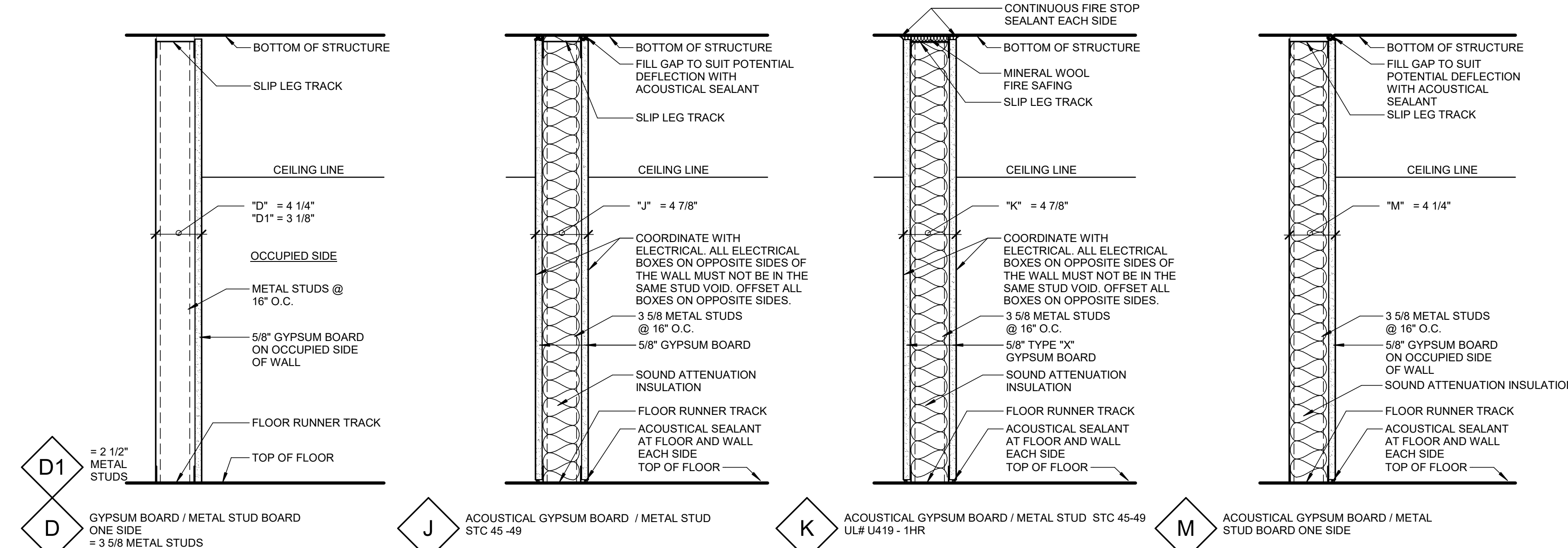
ROOFS:
 INSULATION ENTIRELY ABOVE DECK U-0.039 / R-25ci

WALLS, ABOVE GRADE:
 MASS U-0.104 / R-9.5ci

SLAB ON GRADE FLOORS:
 UNHEATED SLABS F-0.54 / R-10 FOR 24" BELOW

OPAQUE DOORS:
 SWINGING U-0.61

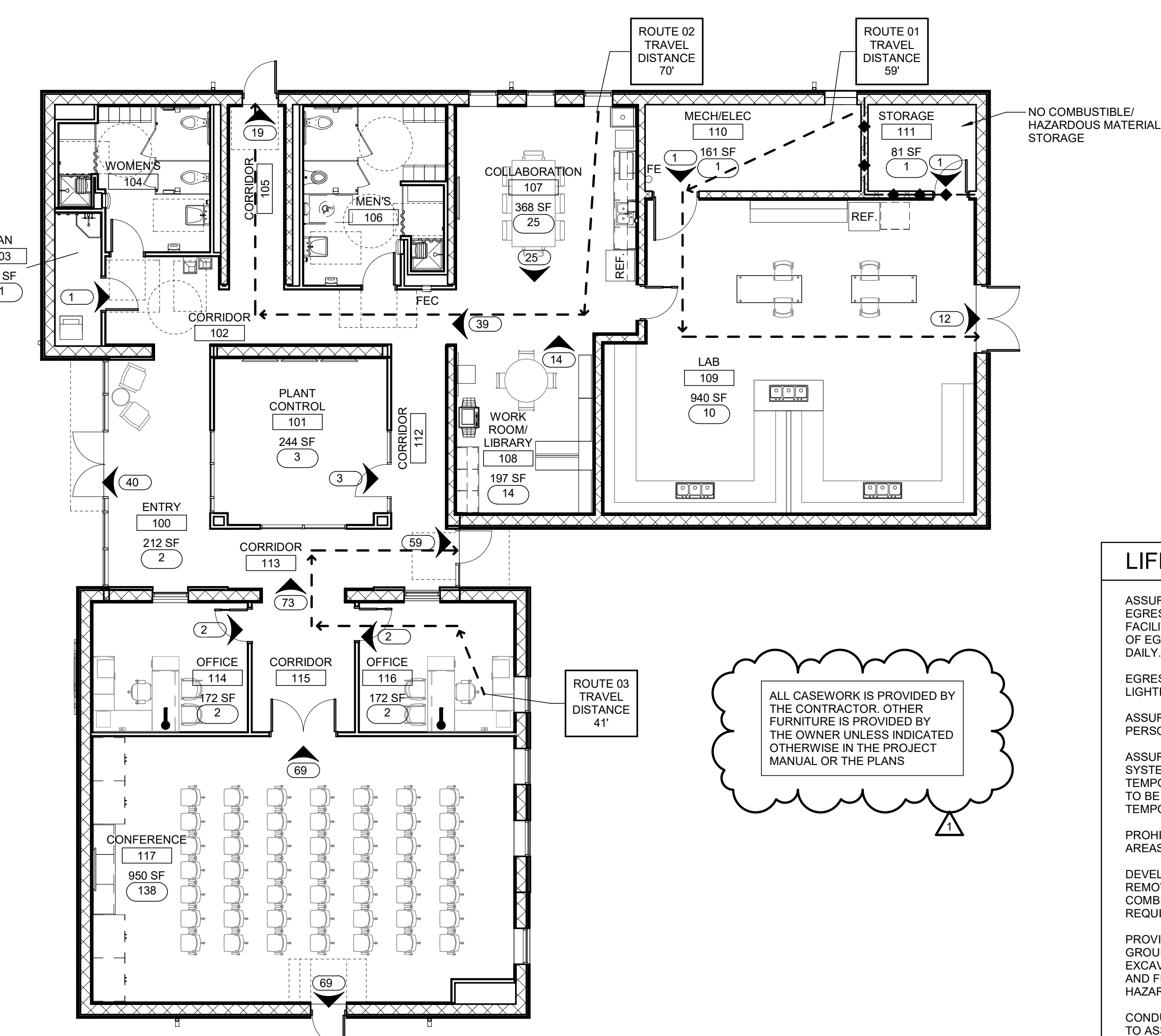
FENESTRATION:
 FIXED FENESTRATION U-0.38
 ENTRANCE DOORS U40/77
 SHGC 0.40



WALL TYPES

SCALE: NOT TO SCALE

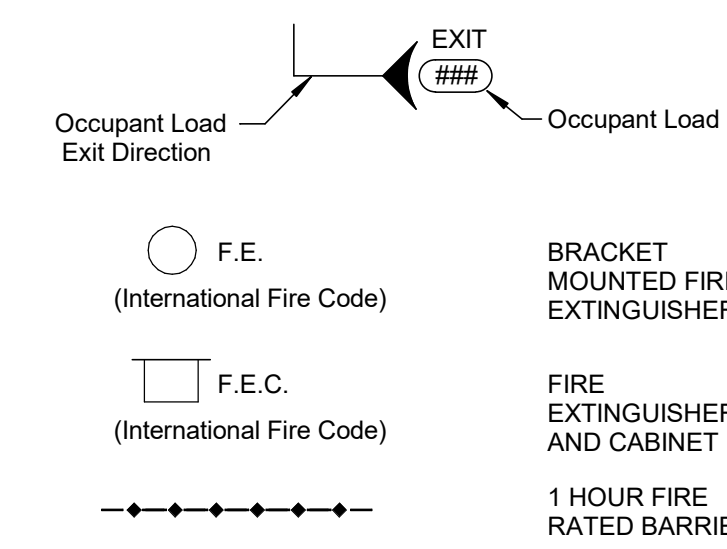
NOTE: NOT ALL WALL TYPES SHOWN ON THIS SHEET MAY BE USED. REFER TO THE FLOOR PLANS TO DETERMINE WHICH WALL TYPES ARE REQUIRED.



LIFE SAFETY MEASURES

ASSURE THAT EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. AREAS UNDER CONSTRUCTION SHALL MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS IN CONSTRUCTION AREAS ARE TO BE INSPECTED DAILY.
 EGRESS ROUTES ARE TO BE CLEARLY MARKED WITH SIGNS, LIGHTING, AND PROPER FLOOR SURFACES.
 ASSURE FREE AND UNOBSTRUCTED ACCESS FOR EMERGENCY PERSONNEL AND EMERGENCY RESPONSE FORCES.
 ASSURE THAT FIRE ALARM DETECTION AND SUPPRESSION SYSTEMS ARE NOT IMPAIRED WITHIN OCCUPIED AREAS. PROVIDE TEMPORARY, EQUIVALENT SYSTEMS WHEN ANY SYSTEM NEEDS TO BE INOPERATIVE DURING CONSTRUCTION. INSPECT AND TEST TEMPORARY SYSTEMS MONTHLY.
 PROHIBIT SMOKING IN, OR ADJACENT TO, ALL CONSTRUCTION AREAS.
 DEVELOP AND ENFORCE STORAGE, HOUSEKEEPING AND DEBRIS REMOVAL PRACTICES THAT REDUCE THE FLAMMABLE AND COMBUSTIBLE FIRE LOAD OF THE BUILDING TO THE LOWEST LEVEL REQUIRED FOR DAILY OPERATION.
 PROVIDE INCREASED HAZARD SURVEILLANCE OF BUILDINGS, GROUNDS AND EQUIPMENT, WITH SPECIAL ATTENTION TO THE EXCAVATIONS, CONSTRUCTION AREAS, CONSTRUCTION STORAGE AND FIELD OFFICES. PROVIDE APPROVED BARRIERS AT ALL HAZARDOUS AREAS.
 CONDUCT ORGANIZATION-WIDE SAFETY EDUCATION PROGRAMS TO ASSURE AWARENESS OF ANY LIFE SAFETY CODE DEFICIENCIES, CONSTRUCTION HAZARDS, AND THESE REQUIREMENTS.

LEGEND:



1 LIFE SAFETY PLAN SCALE: 1/8" = 1'-0"



SHEET A3 OF 11	REVISIONS	SEWER SYSTEM IMPROVEMENTS CONTRACT NO. 133-2019-01	DESIGNED D. HUFF
ADDENDUM NO. 3 1/10/20	BD	HAMMOND-WOOD WASTEWATER TREATMENT PLANT EXPANSION	DRAWN B. DEAN
		AE-010 LIFE SAFETY PLAN & CODE REVIEW	CHECKED A. BURELL
		HOPKINSVILLE WATER ENVIRONMENT AUTHORITY	
PROJECT NUMBER 1983 & 017-01562-00	DATE 08/23/18	SCALE AS SHOWN	
		J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com	

