

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 46800 DATE: JULY 2016		
SCALE: NTS		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	RCB	
RECORD DUGS		



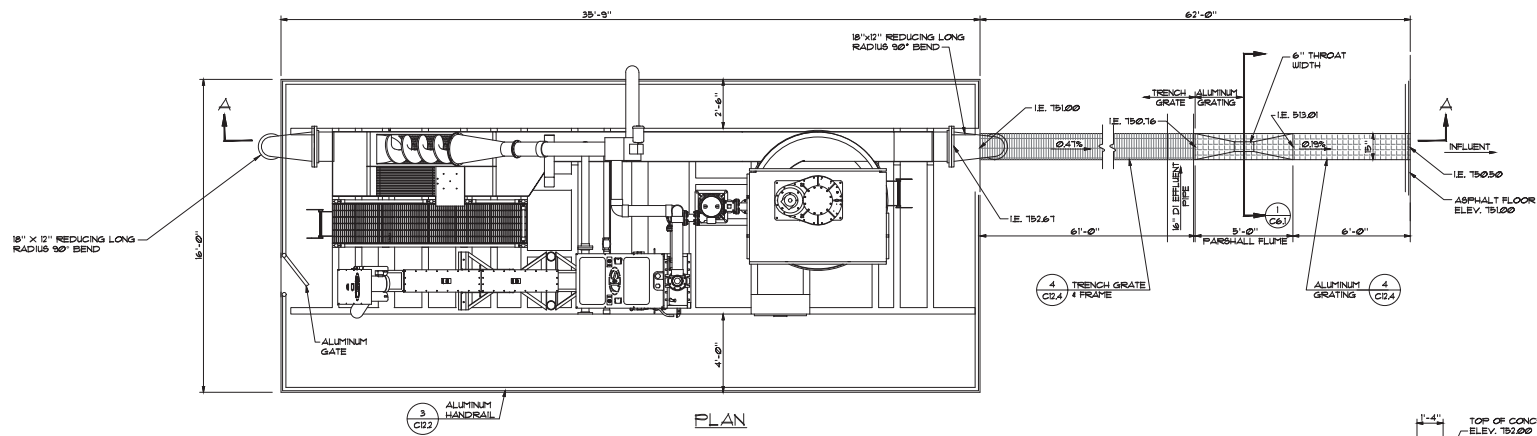
3 HMB CIRCLE
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(502) 695-9810 FAX

**AUGUSTA REGIONAL
SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

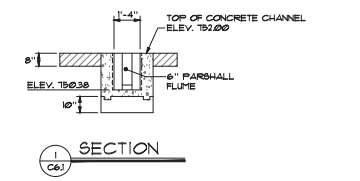
FLOW SCHEMATIC

SHEET
C5.1

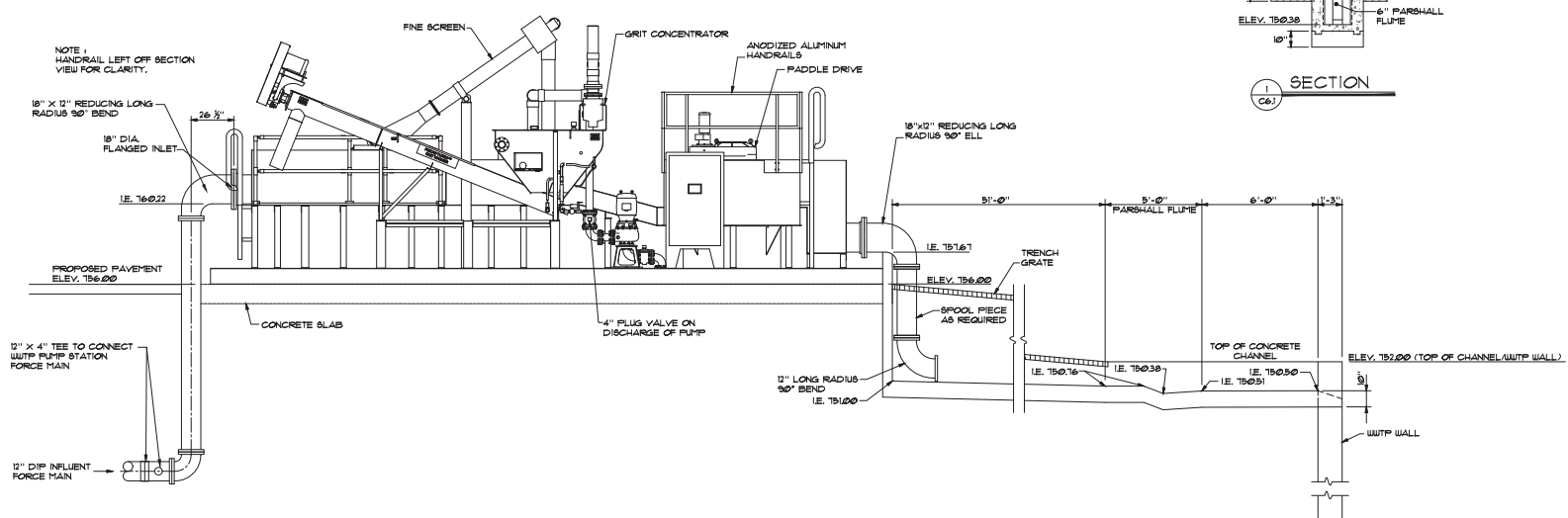
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PLAN



SECTION



SECTION A-A

NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT: 416800		DATE: JULY 2016
SCALE: 1" = 3'		
DESIGNED BY	NAME	DATE
DRAWN BY	RCB	
CHECKED BY	SAB	
RECORD DUGG.	RCB	



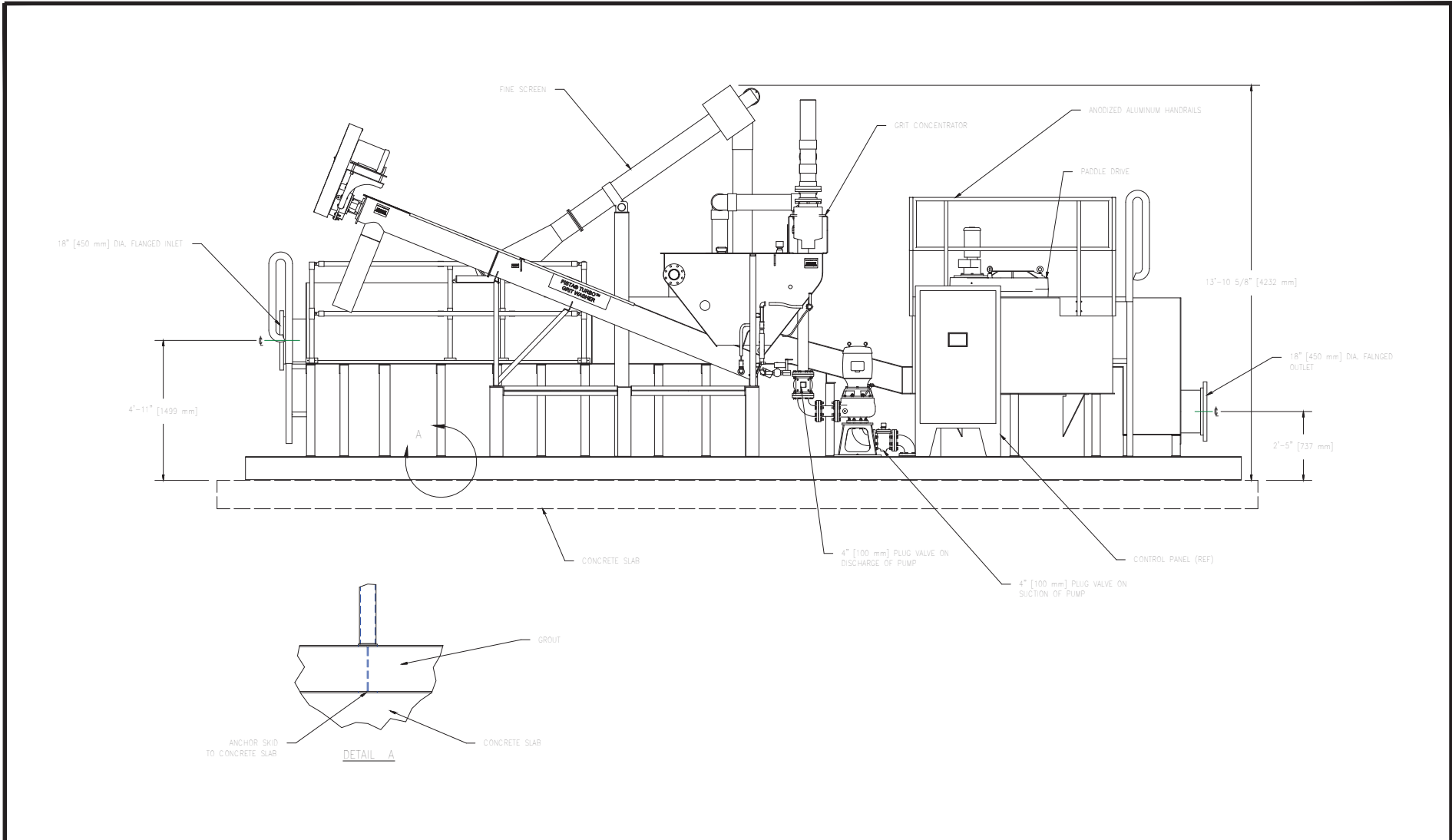
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CONTRACT II WASTEWATER TREATMENT PLANT**

FINE SCREEN/GRIT REMOVAL/INFLUENT CHANNEL

SHEET
C6.1

P:\projects\416800\CONTRACT II - WWP\PROSD 4.22.16\SET C6.1\CLIP.FIN SCREEN, GRIT REMOVAL.dwg, 3/2/2016 14:51:14 PM, 3/2/2016 14:51:14 PM



PROJECT: 416820 DATE: JULY 2016					
SCALE: NTS.					
DESIGNED BY	NAME	DATE			
DRAWN BY	RCB				
CHECKED BY	SAB				
RECORD DUG.	RCB				

HMB
PROFESSIONAL ENGINEERS, INC.

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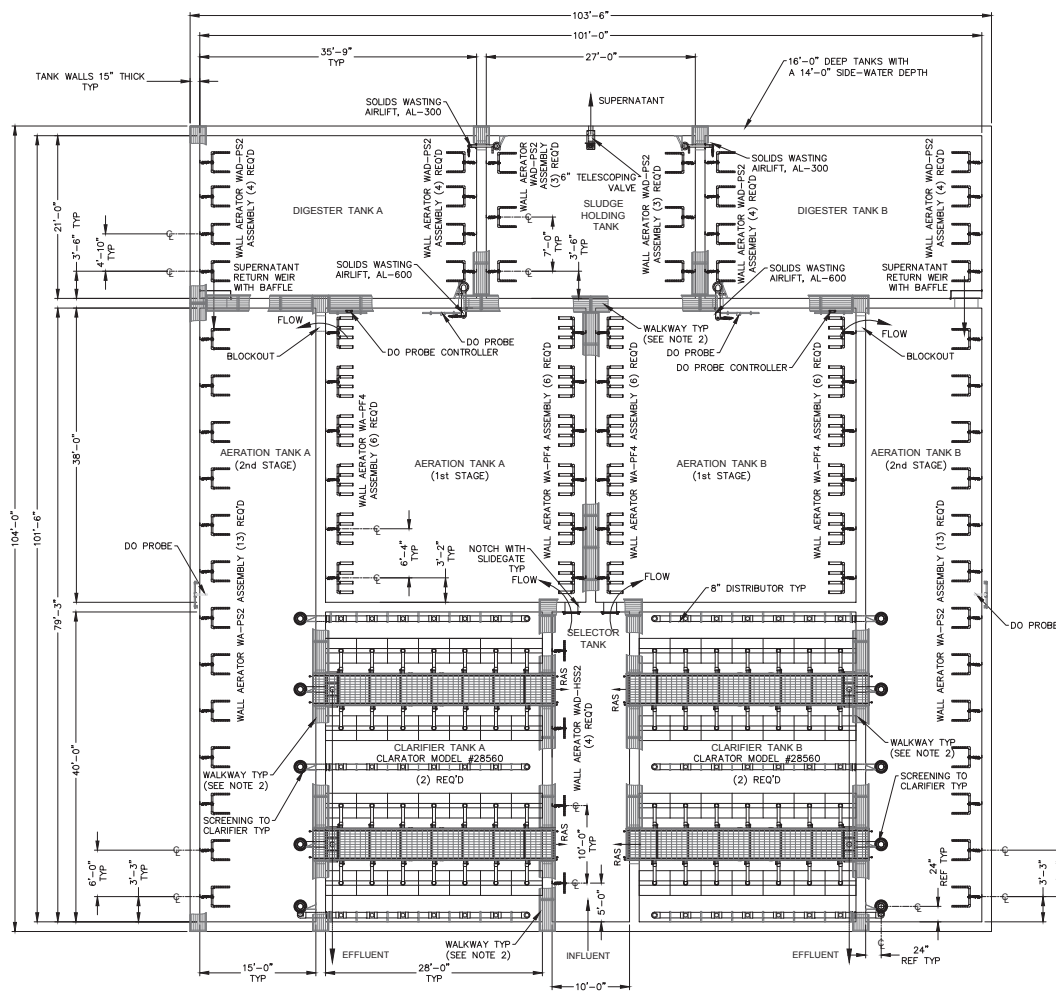
**AUGUSTA REGIONAL
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BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

GRIT SYSTEM STANDARD DETAILS

SHEET
C6.2

P:\projects\416820\CONTRACT II - WWP\PROSD 416820\K161\ASSET C6.2\CD\FINE SCREEN GRIT CONCENTRATOR GRIT CONCENTRATOR.dwg, 3/2/2016 14:58:13 PM, 3/2/2016 14:58:13 PM

- NOTE:
1. ALL TANK PIPING REQUIREMENTS SHOWN ON TANK PIPING LAYOUT.
 2. ALL WALKWAY REQUIREMENTS SHOWN ON WALKWAY AND HANDRAIL LAYOUT.



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 AERO-MOD, INC.
 7927 US HIGHWAY 24
 MANHATTAN, KS 66502
 PHONE : (785) 537-4995

NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT: 416800 DATE: JULY 2015
 SCALE: N.T.S.

DESIGNED BY	NAME	DATE



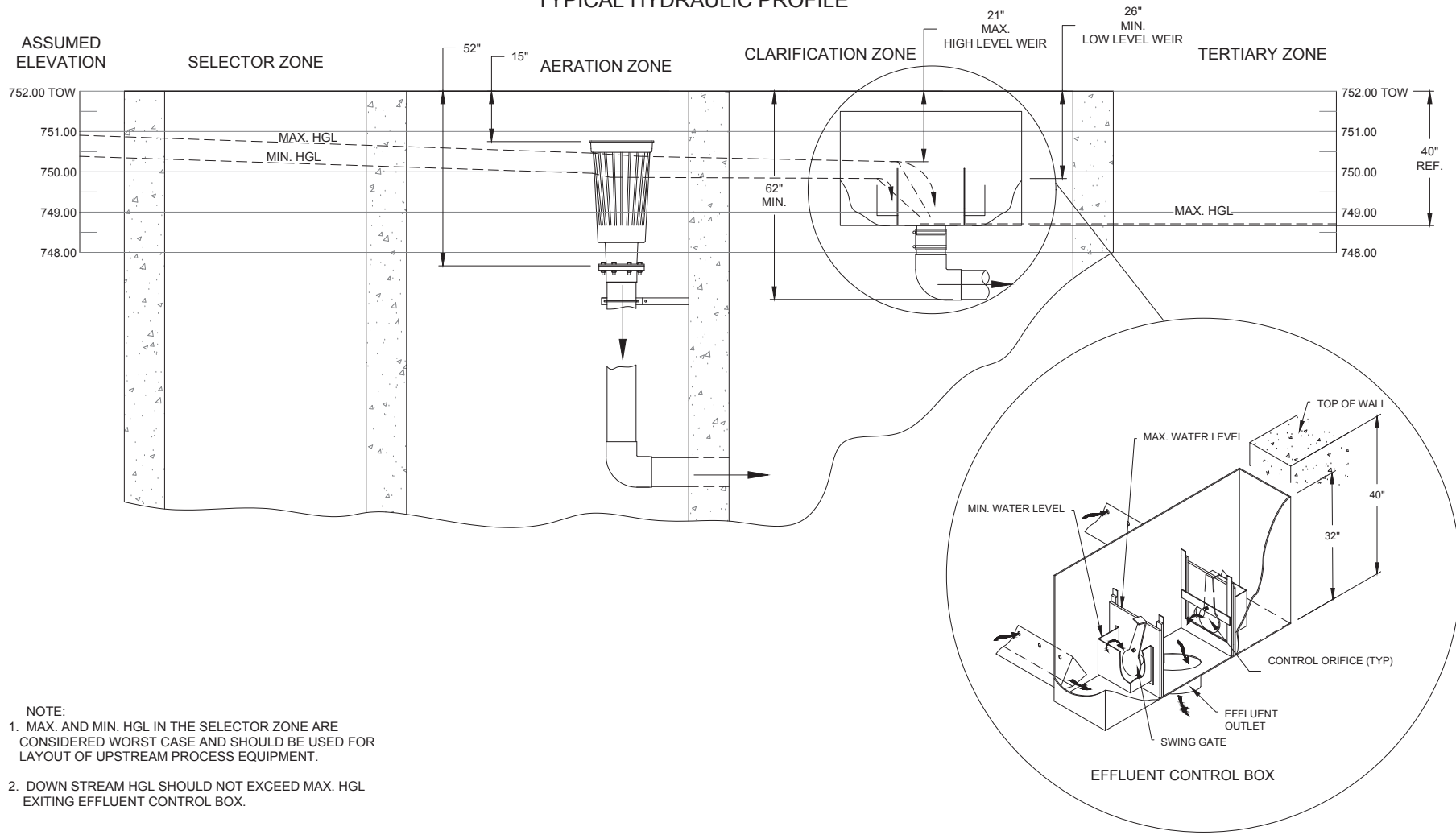
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**AUGUSTA REGIONAL
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 BRACKEN COUNTY, KENTUCKY
 CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP EQUIPMENT PLAN VIEW

SHEET
 C7.1

TYPICAL HYDRAULIC PROFILE



- NOTE:
1. MAX. AND MIN. HGL IN THE SELECTOR ZONE ARE CONSIDERED WORST CASE AND SHOULD BE USED FOR LAYOUT OF UPSTREAM PROCESS EQUIPMENT.
 2. DOWN STREAM HGL SHOULD NOT EXCEED MAX. HGL EXITING EFFLUENT CONTROL BOX.

PROJECT: 4168000 DATE: JULY 2016						
SCALE: N.T.S.						
		NAME	DATE			
		DESIGNED BY	RCB			
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		CHECKED BY	RCB			
NO.	DATE	REVISIONS	CHKD	APPRD	DATE	RECORD DUGS.

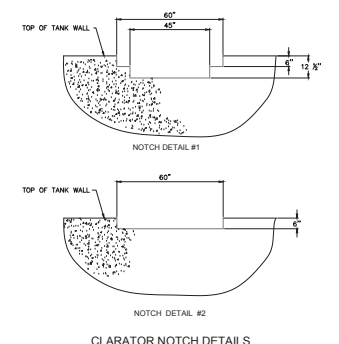
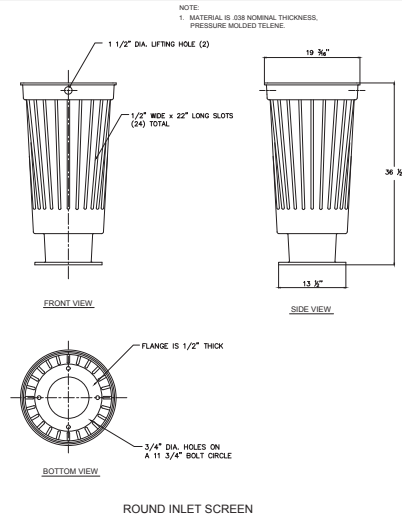
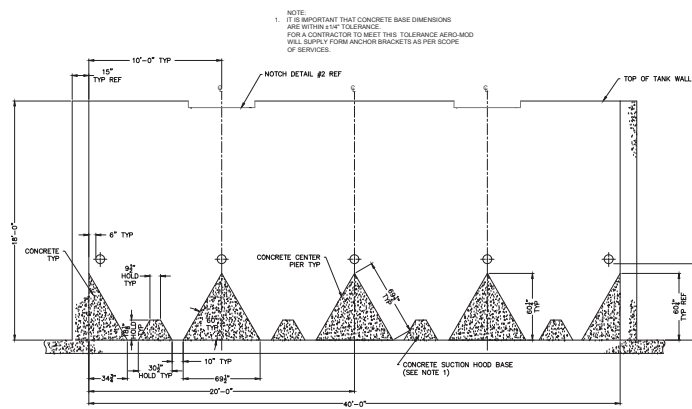
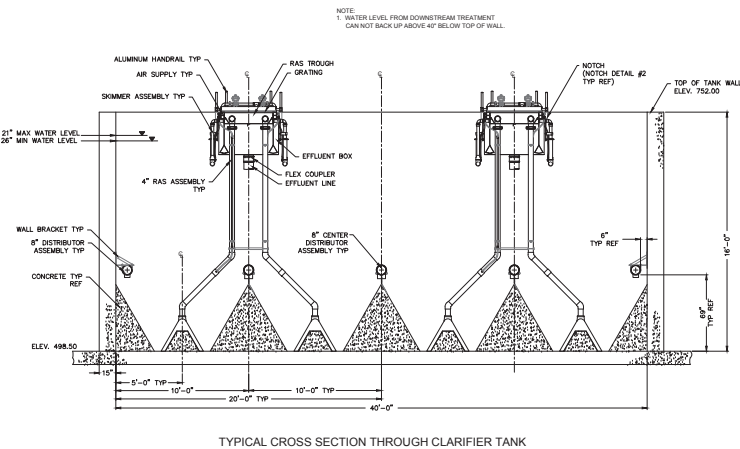
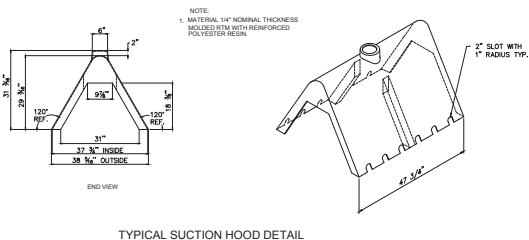
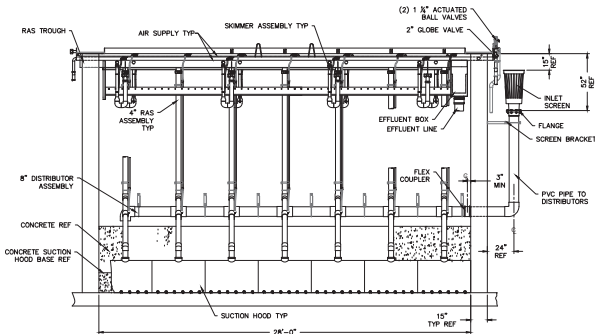
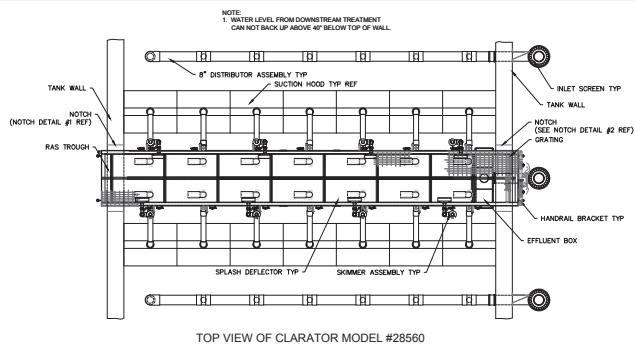


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TYPICAL HYDRAULIC PROFILE

SHEET
C7.10



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PROJECT: 4168.000 DATE: JULY 2016
SCALE: NTA

NAME	DATE
DESIGNED BY RCB	
DRAWN BY RCB	
CHECKED BY RCB	
RECORD DWGS.	

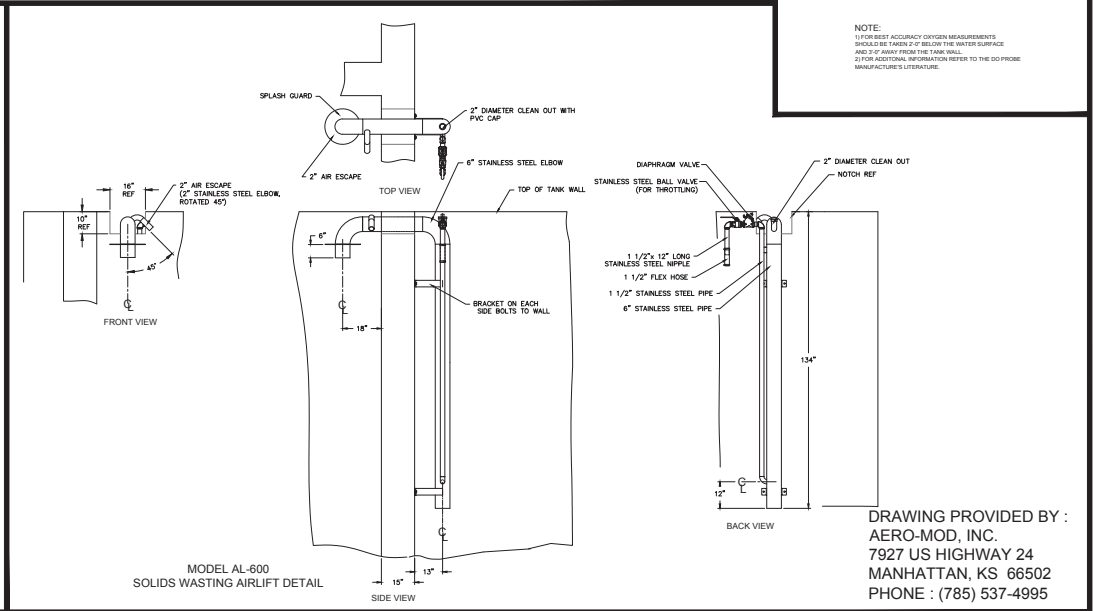
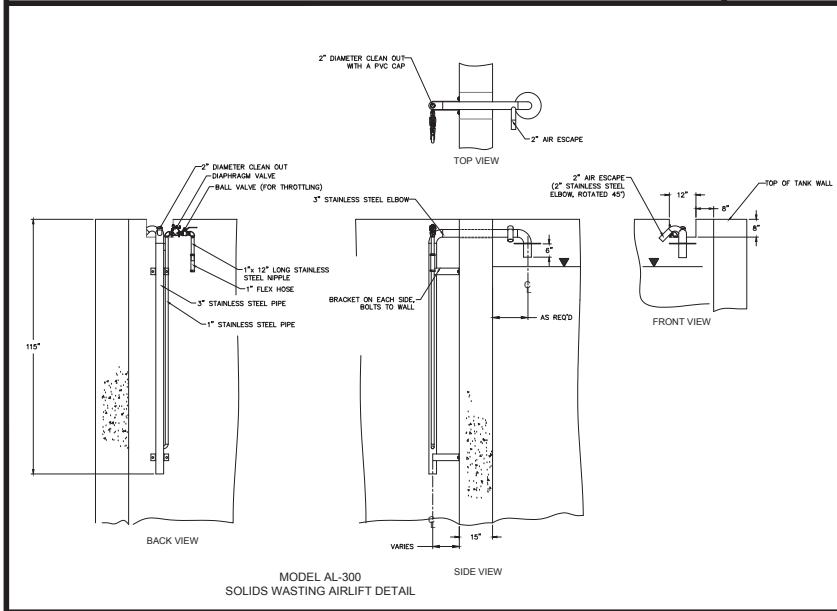
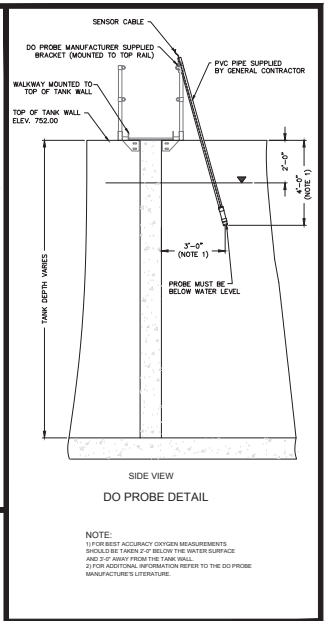
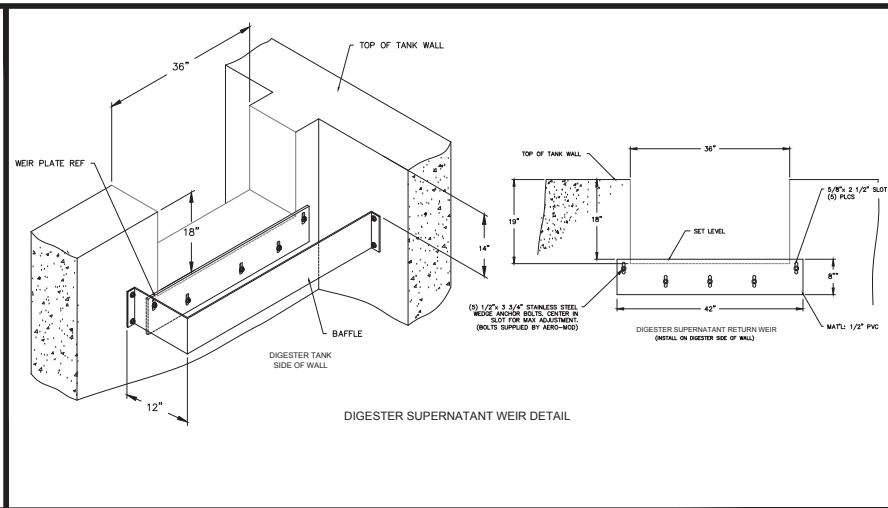
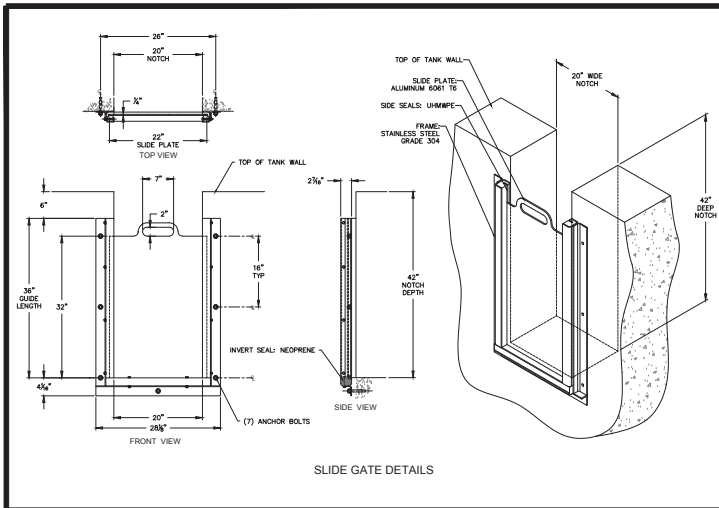


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CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP EQUIPMENT DETAILS

SHEET
C7.11



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NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 416800 DATE: JULY 2016
 SCALE: N.T.S.

DESIGNED BY	NAME	DATE
DRAWN BY		
CHECKED BY		
RECORD DUG.		

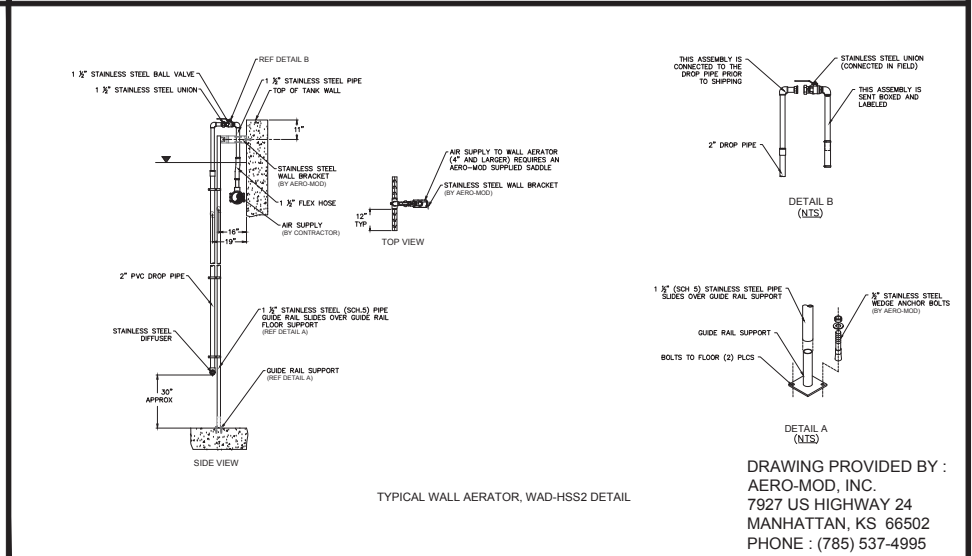
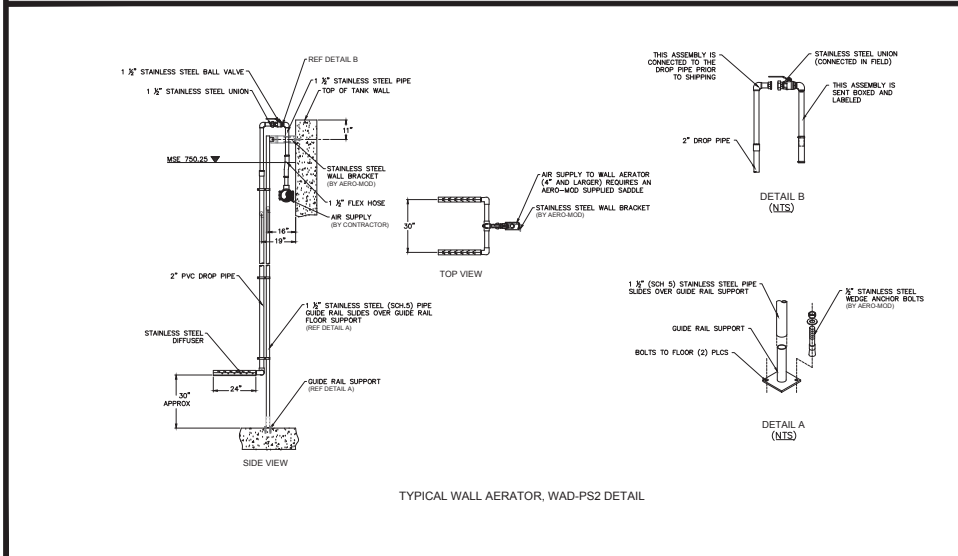
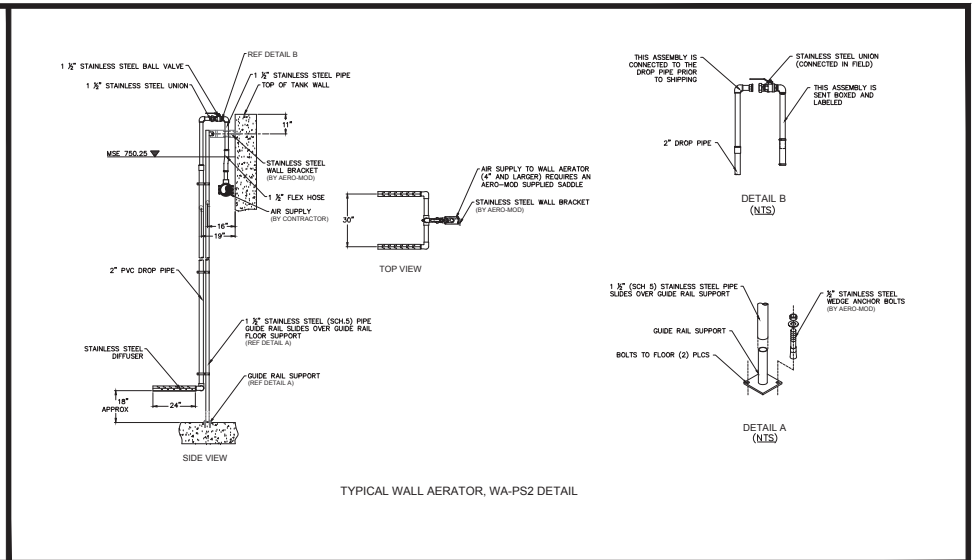
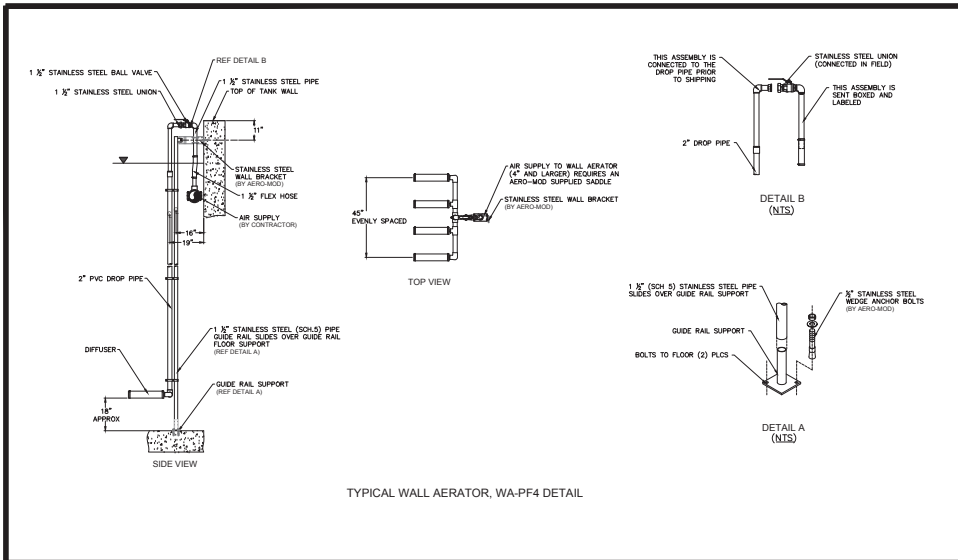


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**AUGUSTA REGIONAL
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 CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP EQUIPMENT DETAILS

SHEET
 C-7.12



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PROJECT: 416800 DATE: JULY 2016
SCALE: N.T.S.

DESIGNED BY	NAME	DATE



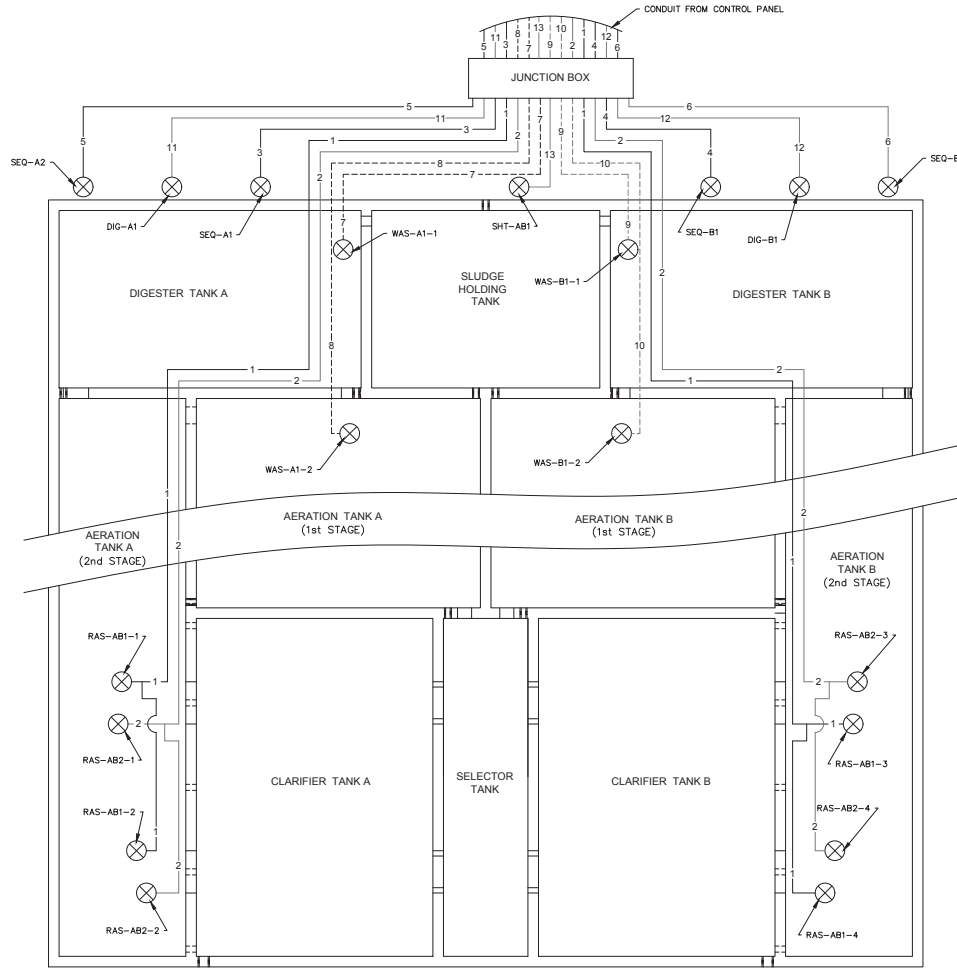
3 HMB CIRCLE
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**AUGUSTA REGIONAL
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BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP EQUIPMENT DETAILS

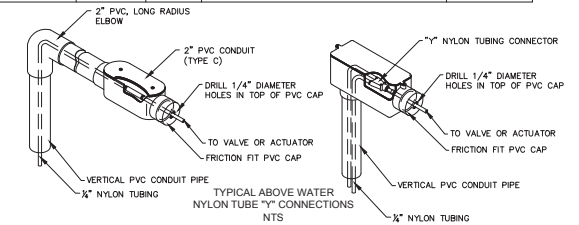
SHEET
C-7.13

NOTE:
1. ALL NYLON TUBE CONNECTIONS ARE TO BE MADE OUTSIDE THE CONDUIT.



PNEUMATIC VALVE TUBING CONNECTION GUIDE					
PNEUMATIC LINE NO.	NYLON TUBE COLOR	ACTUATED VALVE PORT	NO. OF TUBES	DESCRIPTION AND VALVE NO.	NORMAL VALVE POSITION
1	RED	A	TWO	CYCLE VALVES RAS-AB1-1, RAS-AB1-2, RAS-AB1-3, RAS-AB1-4	CLOSED
	ORANGE	B			
2	BLUE	A	TWO	CYCLE VALVES RAS-AB2-1, RAS-AB2-2, RAS-AB2-3, RAS-AB2-4	CLOSED
	TAN	B			
3	ORANGE	A	TWO	SEQUOX VALVE SEQ-A1-1	OPEN
	ORANGE	B			
4	BLACK	A	TWO	SEQUOX VALVE SEQ-B1-1	OPEN
	BLACK	B			
5	GREEN	A	TWO	SEQUOX VALVE SEQ-A2-1	OPEN
	GREEN	B			
6	YELLOW	A	TWO	SEQUOX VALVE SEQ-B2-1	OPEN
	YELLOW	B			
7	BLACK	NA	ONE	WASTING VALVE WAS-A1-1	CLOSED
8	ORANGE	NA	ONE	WASTING VALVE WAS-A1-2	CLOSED
9	SILVER	NA	ONE	WASTING VALVE WAS-B1-1	CLOSED
10	PURPLE	NA	ONE	WASTING VALVE WAS-B1-2	CLOSED
11	PURPLE	A	TWO	DIGESTER VALVE DIG-A1-1	OPEN
		B			
12	BROWN	A	TWO	DIGESTER VALVE DIG-B1-1	OPEN
		B			
13	SILVER	A	TWO	SLUDGE HOLDING VALVE SHT-AB1-1	CLOSED
		B			

VALVE ABBREVIATION GUIDE	
XXX - XXX# - #	INDICATES VALVE NUMBER OR A "0" INDICATES A SOLENOID
---	INDICATES CYCLE/STAGE
---	INDICATES TRAIN(S)/LOCATION
---	INDICATES TYPE/FUNCTION
RAS	RETURN ACTIVATED SLUDGE (RAS) VALVE
SEQ	SEQUOX VALVE
WAS	AIR LIFT VALVE
DIG	DIGESTER VALVE
SHT	SLUDGE HOLDING TANK VALVE



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PROJECT: 4168-00	DATE: JULY 2016				
SCALE: N.T.S.					
DESIGNED BY	NAME	DATE			
DRAWN BY	RCB				
CHECKED BY	RCB				
RECORD DRG.					
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

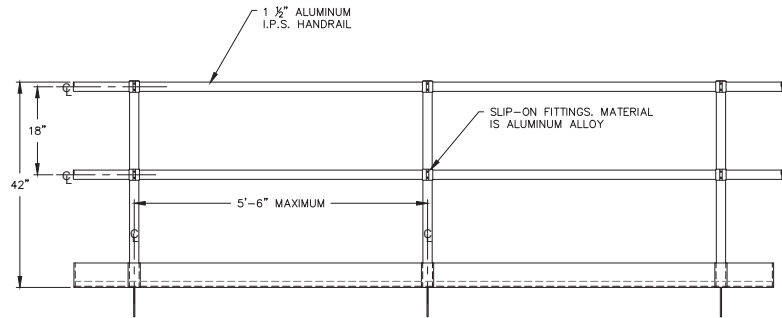


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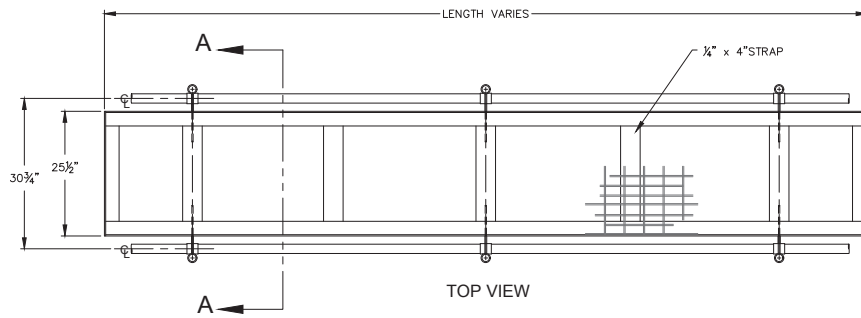
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BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

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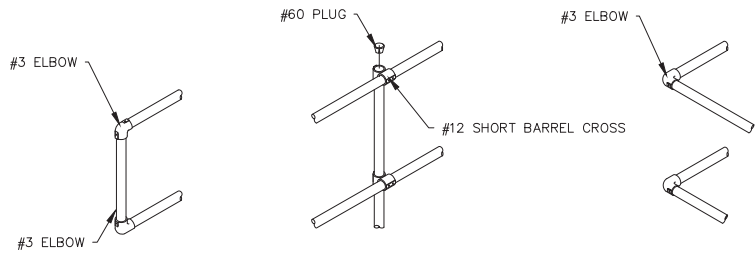
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C7.14



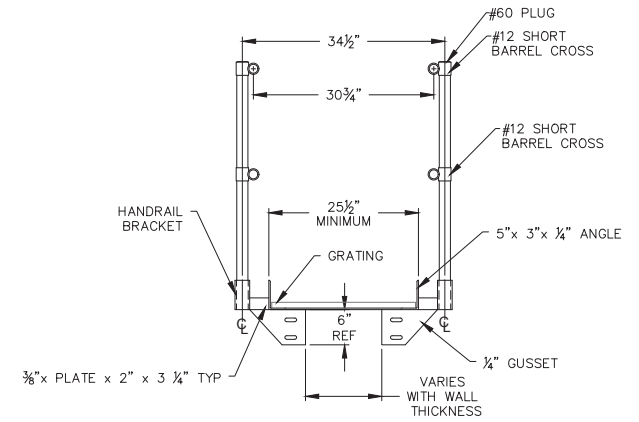
SIDE VIEW



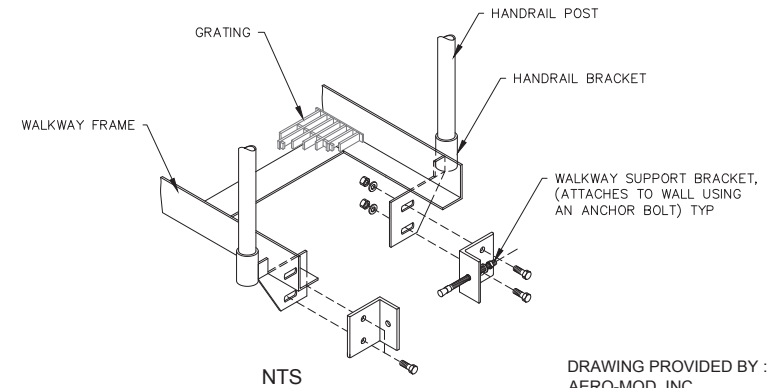
TOP VIEW



HANDRAIL FITTING DETAILS
(FITTING COMBINATIONS VARY PER JOB)



SECTION A-A
NTS



NTS

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NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT: 4168.00	DATE: JULY 2016	
SCALE: N.T.S.		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	RCB	
RECORD DUGS.		

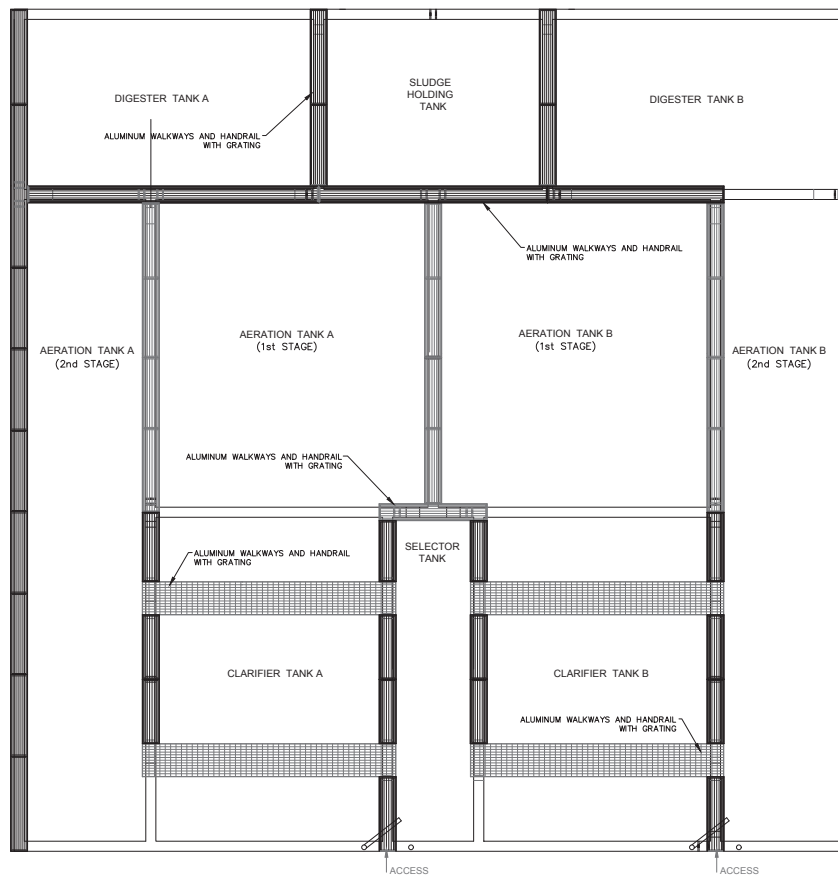


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**AUGUSTA REGIONAL
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CONTRACT II WASTEWATER TREATMENT PLANT**

TWO RAIL WALKWAY, WALKWAY DETAIL

SHEET
C1.15



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NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT: 416000 DATE: JULY 2016
 SCALE: N.T.S.

DESIGNED BY	NAME	DATE
	RCB	
DRAWN BY	RCB	
CHECKED BY	RCB	
RECORD DUGS.		



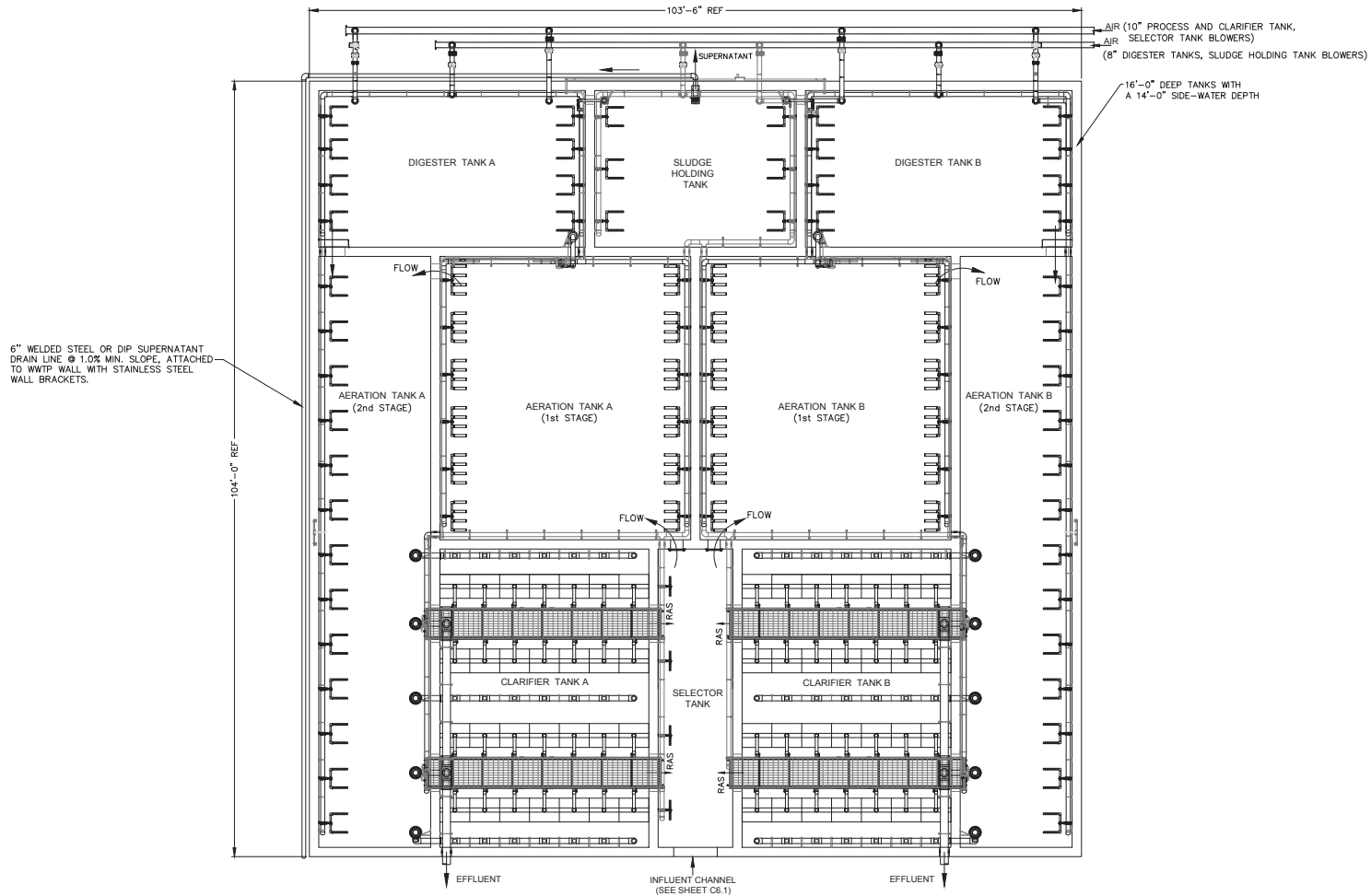
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**AUGUSTA REGIONAL
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 BRACKEN COUNTY, KENTUCKY
 CONTRACT II WASTEWATER TREATMENT PLANT**

WALKWAY WITH HANDRAIL - PLAN VIEW

SHEET
 C7.16

- NOTE:
1. ALL TANK PIPING REQUIREMENTS SHOWN ON TANK PIPING LAYOUT.
 2. ALL WALKWAY REQUIREMENTS SHOWN ON WALKWAY AND HANDRAIL LAYOUT.



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PROJECT: 4169000	DATE: JULY 2016
SCALE: N.T.S.	
DESIGNED BY:	RCB
DRAWN BY:	SAB
CHECKED BY:	RCB
RECORD DUGS:	

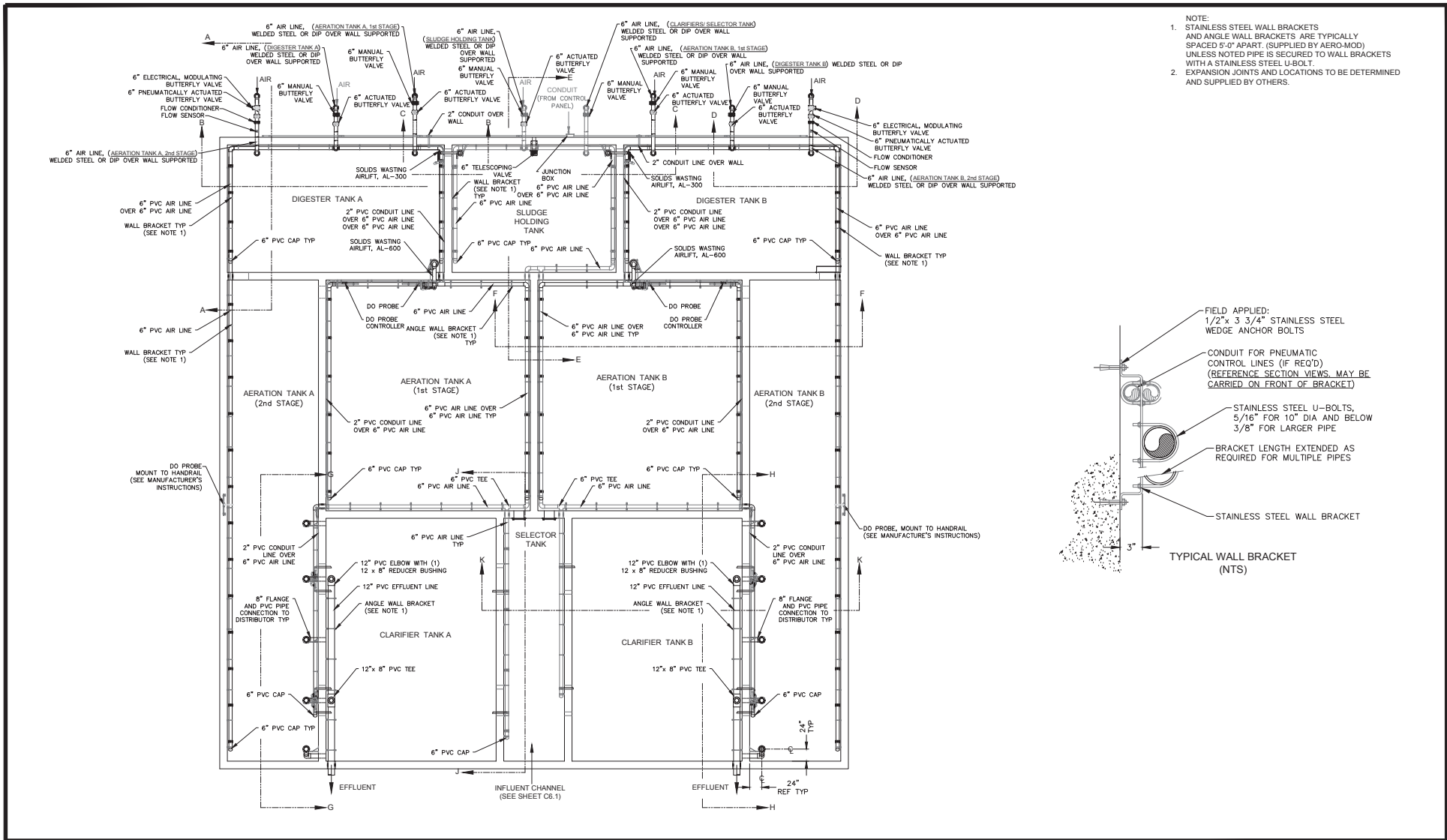


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 (502) 695-9210 FAX

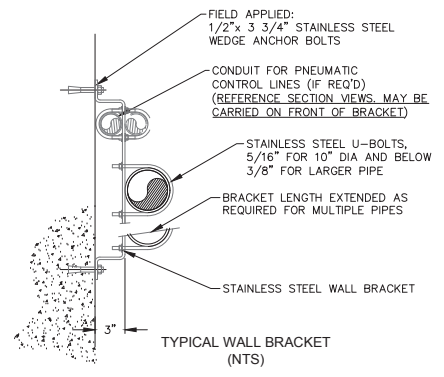
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 CONTRACT II WASTEWATER TREATMENT PLANT**

**TANK PIPING AND EQUIPMENT
 COMBINATION PLAN VIEW**

94 SHEET
 C1.2



- NOTE:
1. STAINLESS STEEL WALL BRACKETS AND ANGLE WALL BRACKETS ARE TYPICALLY SPACED 5'-0" APART (SUPPLIED BY AERD-MOD) UNLESS NOTED PIPE IS SECURED TO WALL BRACKETS WITH A STAINLESS STEEL U-BOLT.
 2. EXPANSION JOINTS AND LOCATIONS TO BE DETERMINED AND SUPPLIED BY OTHERS.



NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT: 46600 DATE: JULY 2005
SCALE: NTA

DESIGNED BY	NAME	DATE
RCB	RCB	
SAB	SAB	
RCB	RCB	

RECORD DUGS



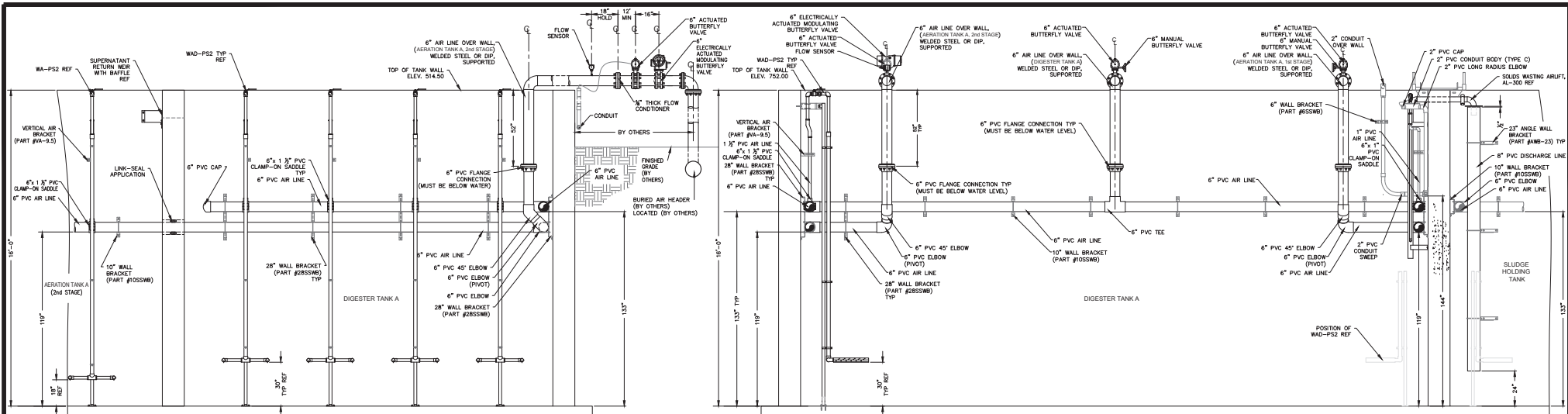
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CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP PIPING PLAN VIEW

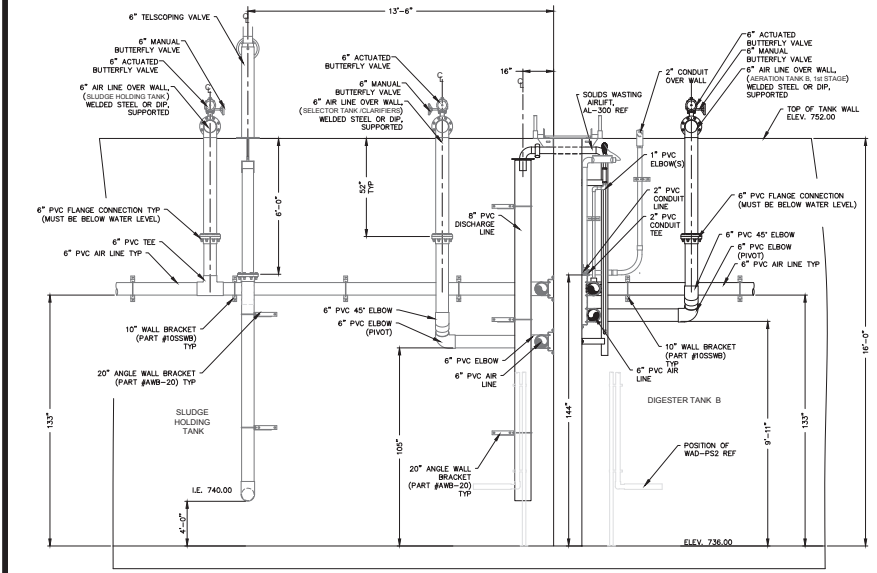
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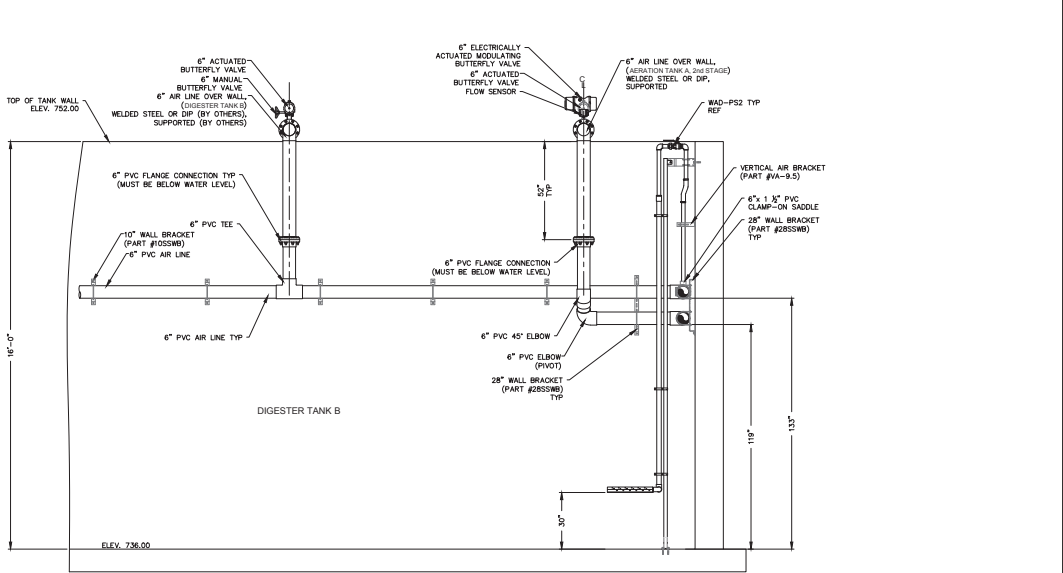


SECTION A-A

SECTION B-B



SECTION C-C



SECTION D-D

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 416-8-00			DATE: JULY 2016		
SCALE: N.T.S.					
DESIGNED BY	NAME	DATE			
DRAWN BY	SAB				
CHECKED BY	RCB				
RECORD DWS					

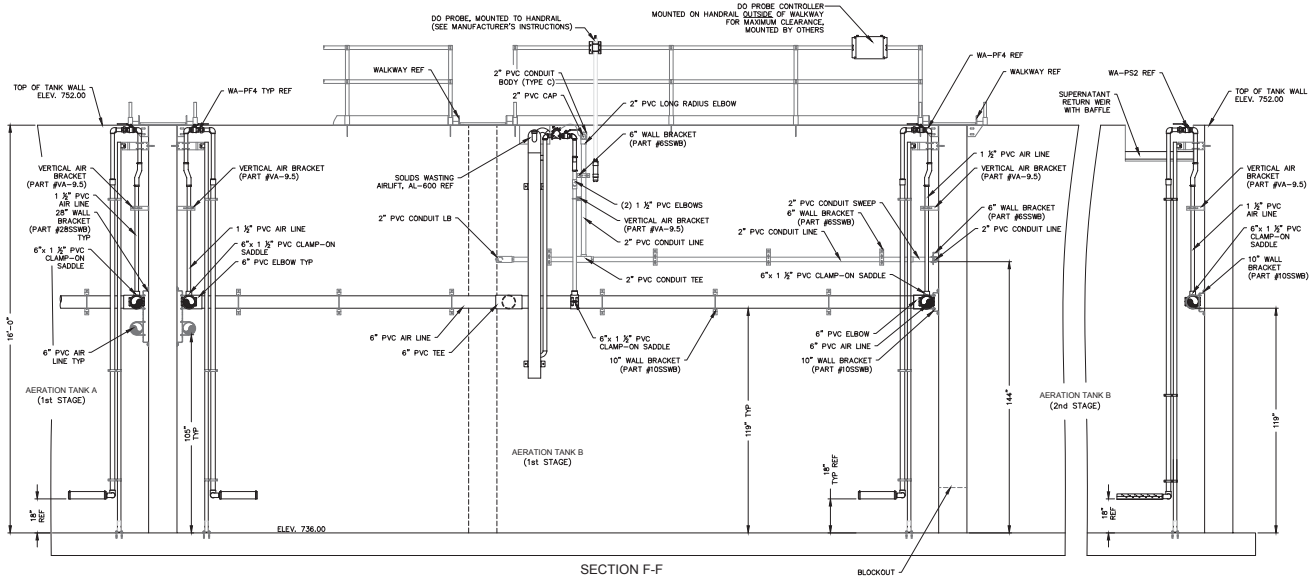
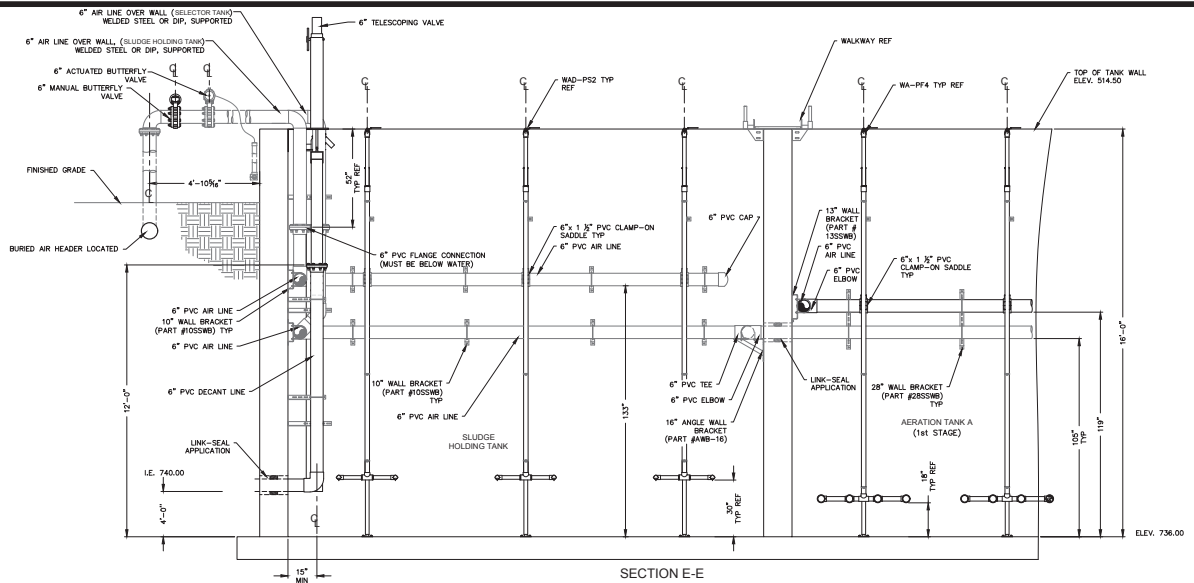


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CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP SECTION VIEWS A-A, B-B, C-C & D-D

SHEET
C1.4



PROJECT: 4169.00 DATE: JULY 2016
 SCALE: N.T.S.

DESIGNED BY	NAME	DATE
RCB		
DRAWN BY	NAME	DATE
SAB		
CHECKED BY	NAME	DATE
RCB		
RECORD DWS.	NAME	DATE



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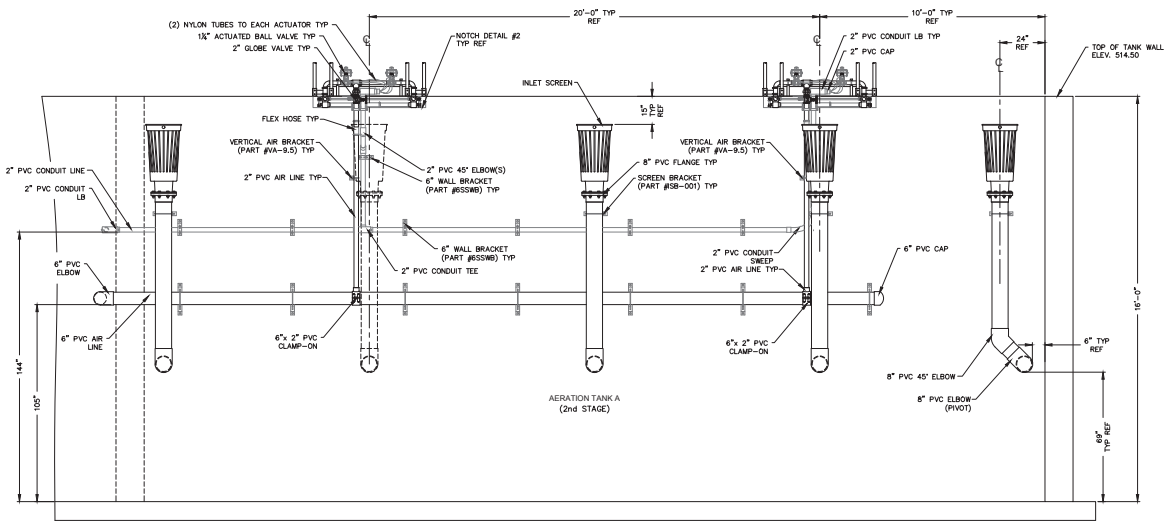
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 BRACKEN COUNTY, KENTUCKY
 CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP SECTION VIEWS E-E & F-F

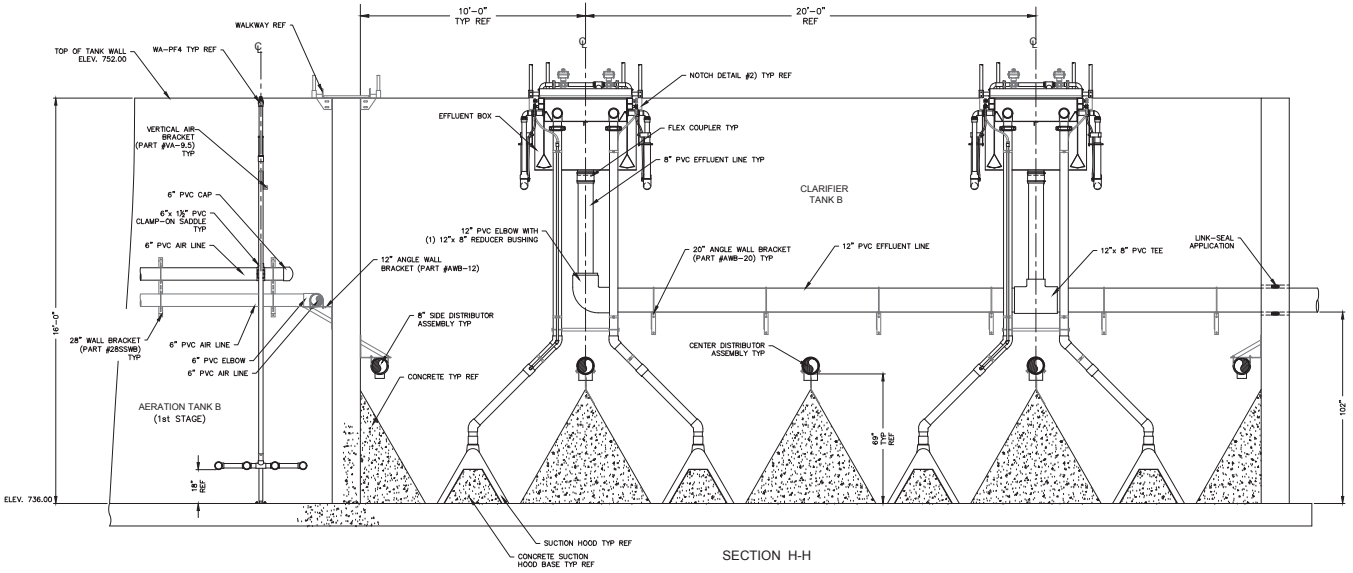
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 C1.5

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

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SECTION G-G



SECTION H-H

PROJECT: 4168.00 DATE: JULY 2016		
SCALE: N.T.S.		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	RCB	
RECORD DWS.		



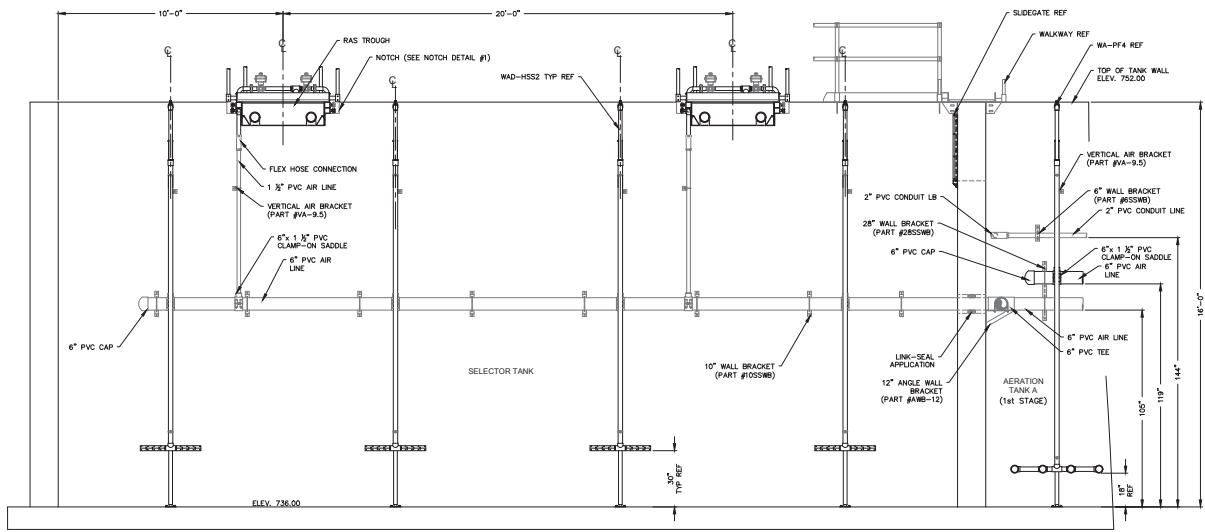
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**AUGUSTA REGIONAL
SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

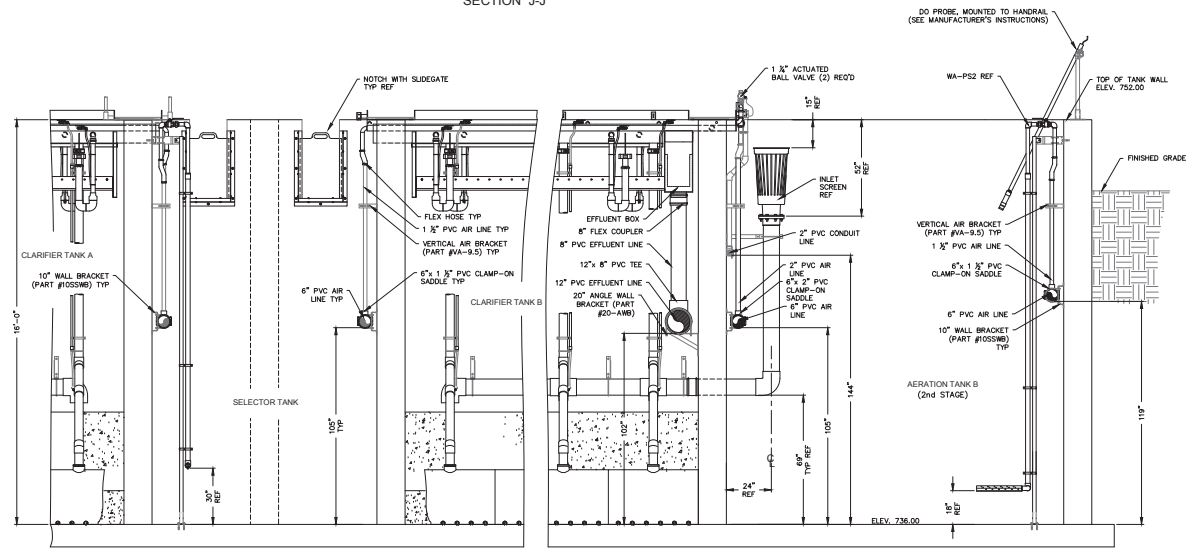
WWTP SECTION VIEWS G-G & H-H

SHEET
C1.6

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



SECTION J-J



SECTION K-K

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 4168.00 DATE: JULY 2016		
SCALE: N.T.S.		
DESIGNED BY	NAME	DATE
DRAWN BY	SAB	
CHECKED BY	RCB	
RECORD DUGS		



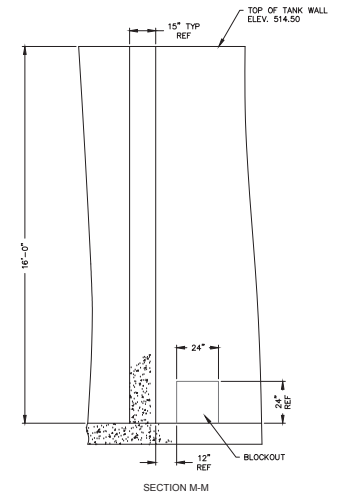
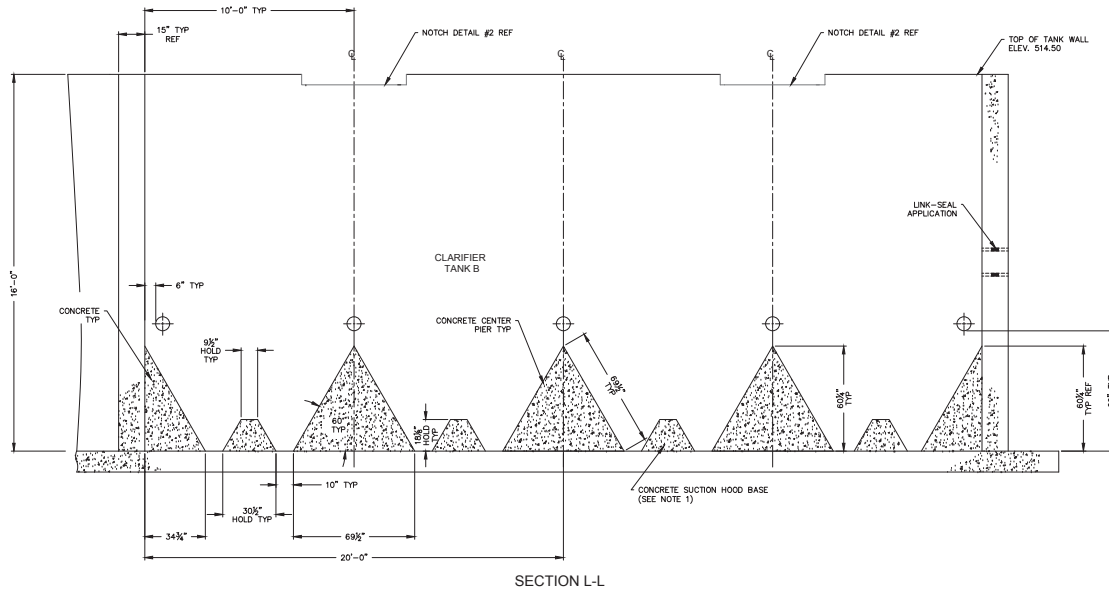
3 HMB CIRCLE
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**AUGUSTA REGIONAL
SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP SECTION VIEWS J-J & K-K

SHEET
C1.1

- NOTE:
 1. IT IS IMPORTANT THAT CONCRETE BASE DIMENSIONS ARE WITHIN $\pm 1/4"$ TOLERANCE. FOR A CONTRACTOR TO MEET THIS TOLERANCE AERO-MOD WILL SUPPLY FORM ANCHOR BRACKETS AS PER SCOPE OF SERVICES.



DRAWING PROVIDED BY :
 AERO-MOD, INC.
 7927 US HIGHWAY 24
 MANHATTAN, KS 66502
 PHONE : (785) 537-4995

PROJECT: 4168.00 DATE: JULY 2015
 SCALE: N.T.S.

DESIGNED BY	NAME	DATE
RCB	RCB	
DRAWN BY	SAB	
CHECKED BY	RCB	
RECORD DUGS.		



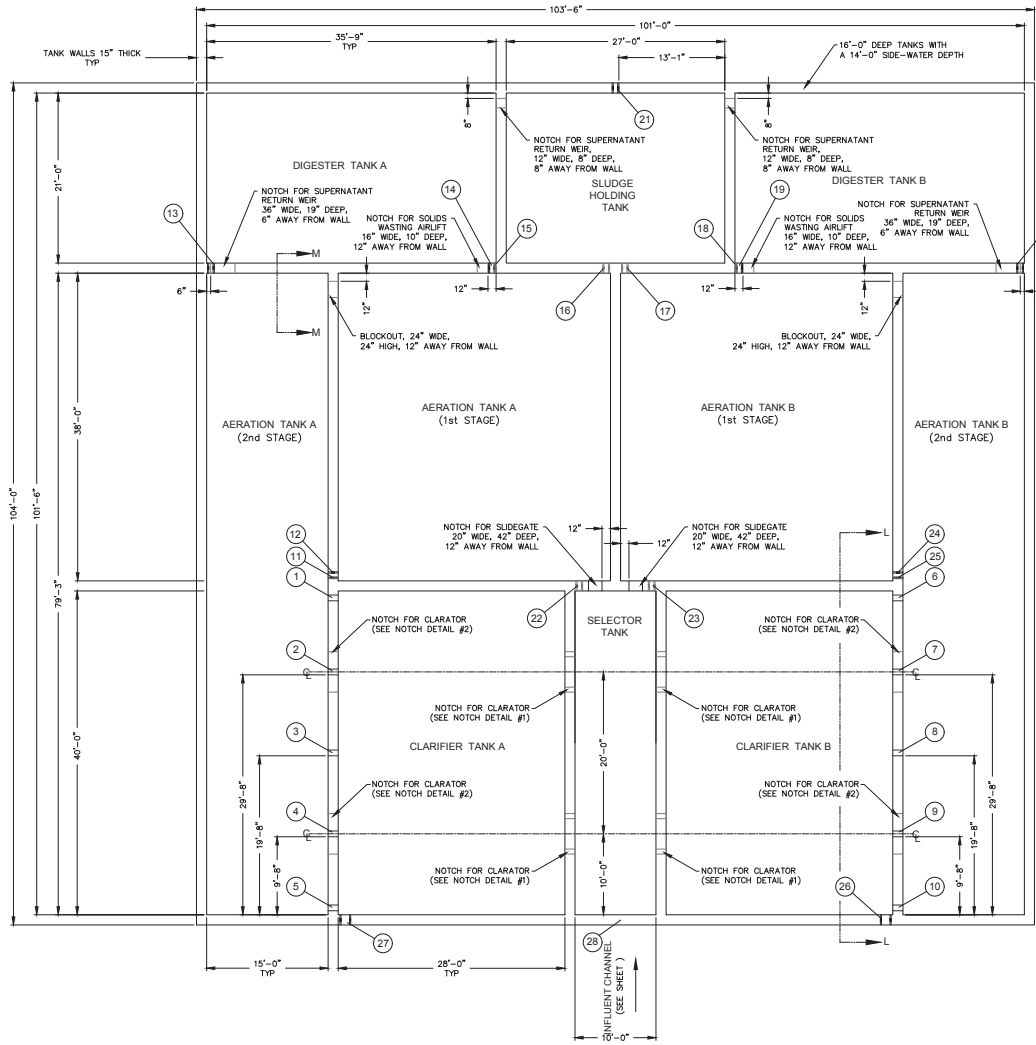
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 BRACKEN COUNTY, KENTUCKY
 CONTRACT II WASTEWATER TREATMENT PLANT**

WWTP SECTION VIEWS L-L & M-M

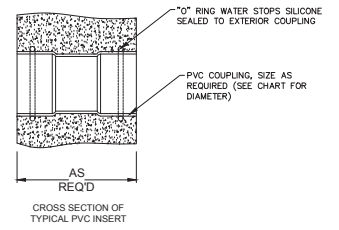
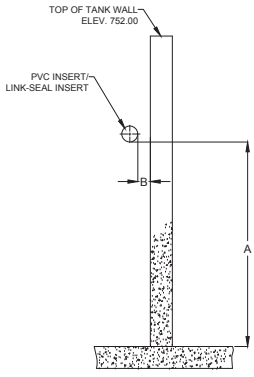
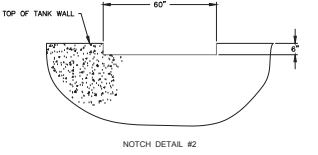
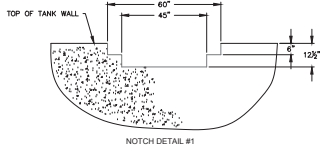
SHEET
 C1.8

NO.	DATE	REVISIONS	CHKD	APPRD	DATE



LINK SEAL INSERT LOCATION CHART				
REF NO	INSERT DIAMETER	A	B	DESCRIPTION
12	10" for 6" pipe	103"	1"	AIR LINE
13	10" for 6" pipe	117"	1"	AIR LINE
14	10" for 6" pipe	117"	1"	AIR LINE
16	10" for 6" pipe	103"	1"	AIR LINE
17	10" for 6" pipe	103"	1"	AIR LINE
19	10" for 6" pipe	117"	1"	AIR LINE
20	10" for 6" pipe	117"	1"	AIR LINE
21	10" for 6" pipe	103"	13'-1"	DECANT LINE
22	10" for 6" pipe	103"	1"	AIR LINE
23	10" for 6" pipe	103"	1"	AIR LINE
24	10" for 6" pipe	103"	1"	AIR LINE
26	16" for 12" pipe	100"	2"	EFFLUENT LINE
27	16" for 12" pipe	100"	2"	EFFLUENT LINE
28	16" for 12" pipe	100"	2"	INFLUENT LINE

PVC INSERT LOCATION CHART				
REF NO	DIA.	A	B	DESCRIPTION
1	8"	69"	6"	DISTRIBUTOR LINE
2	8"	69"	29'-8"	DISTRIBUTOR LINE
3	8"	69"	19'-8"	DISTRIBUTOR LINE
4	8"	69"	9'-8"	DISTRIBUTOR LINE
5	8"	69"	6"	DISTRIBUTOR LINE
6	8"	69"	6"	DISTRIBUTOR LINE
7	8"	69"	29'-8"	DISTRIBUTOR LINE
8	8"	69"	19'-8"	DISTRIBUTOR LINE
9	8"	69"	9'-8"	DISTRIBUTOR LINE
10	8"	69"	6"	DISTRIBUTOR LINE
11	2"	144"	4"	CONDUIT LINE
15	2"	144"	1"	CONDUIT LINE
18	2"	144"	1"	CONDUIT LINE
25	2"	144"	4"	CONDUIT LINE



DRAWING PROVIDED BY :
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 MANHATTAN, KS 66502
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NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT: 418800 DATE: JULY 2016	
SCALE: N.T.S.	
DESIGNED BY	RCB
DRAWN BY	SAB
CHECKED BY	RCB
RECORD DWGS.	

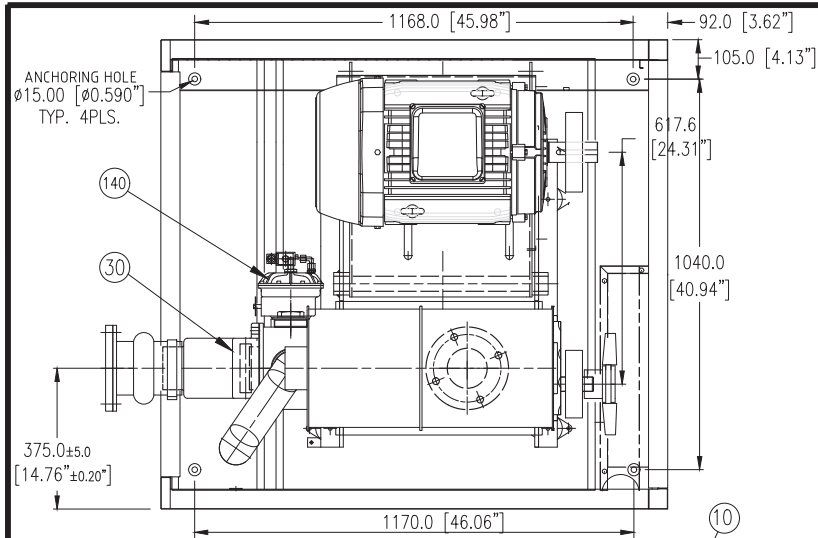


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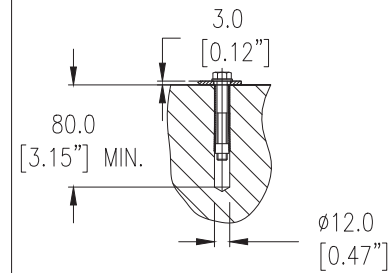
**AUGUSTA REGIONAL
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 BRACKEN COUNTY, KENTUCKY
 CONTRACT II WASTEWATER TREATMENT PLANT**

**WWTP CONCRETE PLAN VIEW
 INSERT AND NOTCH LOCATIONS AND DETAILS**

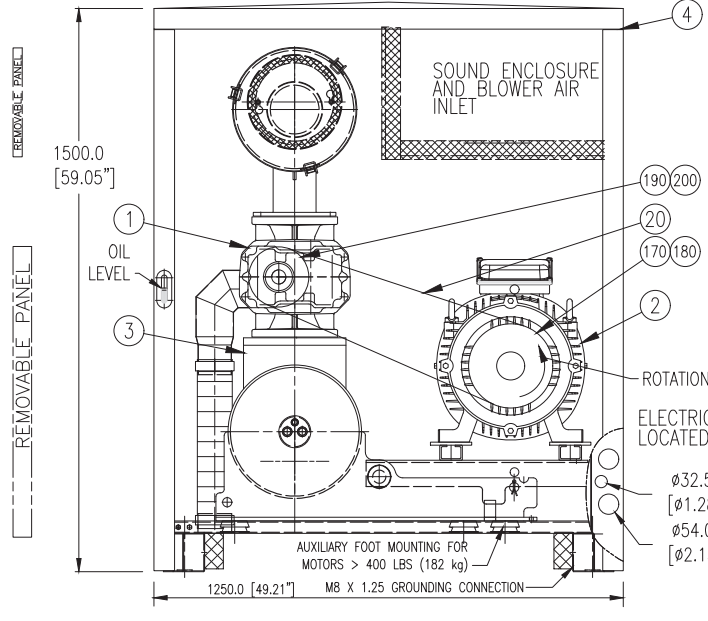
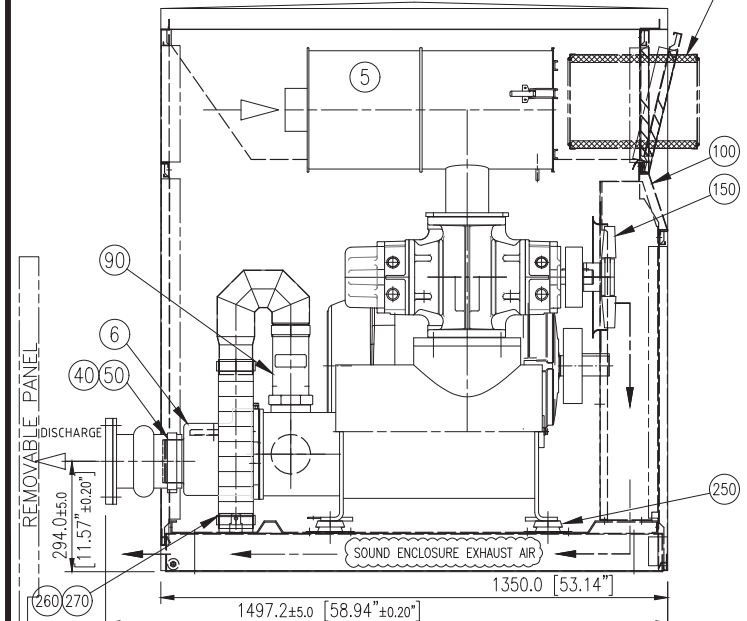
6-SHEET
 C19



RECOMMENDED SOUND ENCLOSURE ANCHORING SHOWN WITH OPTIONAL LIEBIG #AB 12/15 AERZEN P/N 120813



ITEM	QTY.	DESCRIPTION
1	1	BLOWER
2	1	MOTOR, SHOWN WITH WEG 324T-F3 FRAME
3	1	BASE FRAME
4	1	SOUND ENCLOSURE (S.E.)
5	1	INLET FILTER/SILENCER ASSEMBLY
6	1	DISCHARGE HOUSING
10	1	INLET FILTER ELEMENT (SHOWN REMOVED)
20	-	DRIVE BELTS (SEE JOB SPECIFIC DATA)
30	1	ONE-WAY VALVE
40	1	EXPANSION JOINT- 4" 150# ANSI FLANGE
50	1	CLAMP FOR EXPANSION JOINT
90	1	SAFETY RELIEF VALVE
100	-	INSTRUMENTATION (SEE JOB SPECIFIC DATA)
140	1	UNLOADING VALVE (OPTIONAL)
150	1	S.E. VENTILATION FAN (MOUNTED ON BLOWER SHAFT)
170	1	MOTOR SHEAVE BUSHING
180	1	MOTOR SHEAVE
190	1	BLOWER SHEAVE BUSHING
200	1	BLOWER SHEAVE
250	-	VIBRATION ISOLATORS (SEE JOB SPECIFIC DATA)
260	1	SAFETY RELIEF VALVE HOSE
270	2	SAFETY RELIEF VALVE HOSE CLAMPS



- NOTES**
- TOLERANCE ON DIMENSIONS = ±12mm [0.5"]
 - WEIGHT: BLOWER PACKAGE WEIGHT 508 Kg. (1118 Lbs.)
MOTOR WEIGHT
TOTAL
 - REMOVABLE PANEL WEIGHT:
PANELS DO NOT EXCEED APPROX. 18 Kg (40 Lbs)
 - CUSTOMER PIPING TO BE INDEPENDENTLY SUPPORTED
 - LIFTING OF PACKAGE: AFTER REMOVING FRONT & REAR DOORS, FROM FRONT SIDE THROUGH FORK LIFT POCKET IN BASE
 - FREE SPACE FOR MAINTENANCE WORK AT FRONT AND REAR SIDE OF UNIT APPROX. 800mm [32"]
 - FOR ADDITIONAL INFORMATION SEE: JOB SPECIFIC DATA PACKAGE

REV	BY	DATE	DESCRIPTION	CHECKED BY	DATE
A	JPS	12/16/08	REVISED FOR VALUE ANALYSIS		

NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT: 4168.000 DATE: JULY 2016
SCALE: N.T.S.

DESIGNED BY	NAME	DATE
RCB	RCB	
SAB	SAB	
RCB	RCB	



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**AUGUSTA REGIONAL
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BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT
DIGESTER & SLUDGE HOLDING TANK
BLOWER DETAILS**

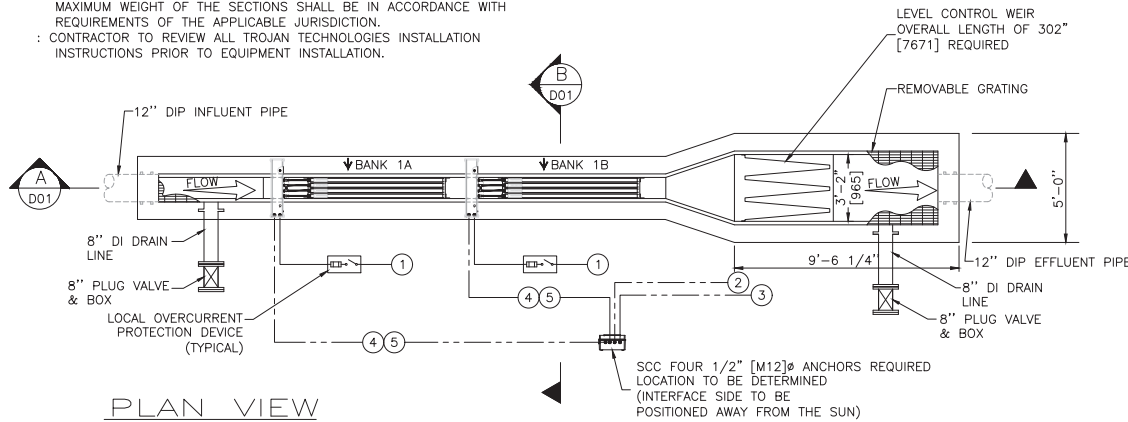
SHEET
C8.2

- NOTES:
- : DO NOT SLOPE CHANNEL FLOOR.
 - : CHANNEL WIDTH & DEPTH MUST BE KEPT WITHIN A TOLERANCE OF + OR - 1/4" [6].
 - : ANCHOR BOLTS ARE NOT SUPPLIED BY TROJAN TECHNOLOGIES.
 - : SYSTEM CONDUIT, WIRING, DISTRIBUTION PANELS & INTERCONNECTIONS BY OTHERS.
 - : ELECTRICAL REQUIREMENTS SHOWN ARE TO SUPPLY TROJAN UV EQUIPMENT ONLY.
 - : ELECTRICAL INRUSH FACTOR TO BE ADDED AS PER LOCAL CODE.
 - : REMOVABLE GRATING SECTIONS SHALL BE EASILY REMOVED BY ONE PERSON.
 - : MAXIMUM WEIGHT OF THE SECTIONS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE APPLICABLE JURISDICTION.
 - : CONTRACTOR TO REVIEW ALL TROJAN TECHNOLOGIES INSTALLATION INSTRUCTIONS PRIOR TO EQUIPMENT INSTALLATION.

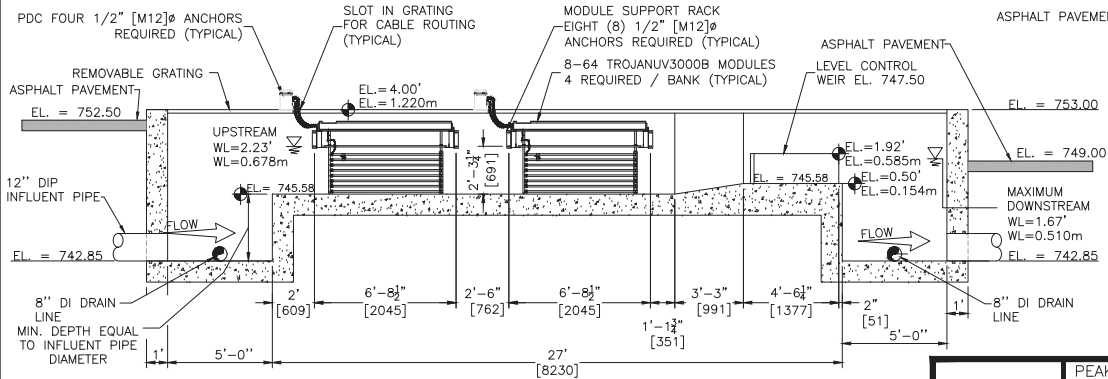
TROJAN UV 3000™ B

EQUIPMENT INTERCONNECTIONS

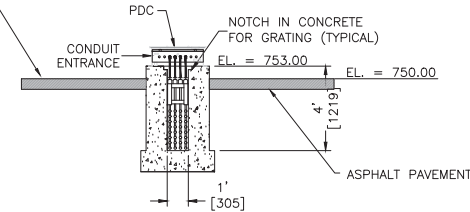
No.	DESCRIPTION	FROM	TO
NOTE: FOR INTERCONNECTION NUMBER 1 SELECT THE VOLTAGE REQUIRED			
1	POWER DISTRIBUTION CENTER (PDC) POWER SUPPLY 120V, 1 PHASE, 2 WIRE + GROUND 3.1 kVA/PDC POWER DRAW 25.8 AMPS MAXIMUM CURRENT/PHASE	DISTRIBUTION PANEL (DP) (NOT SHOWN)	PDC
1	POWER DISTRIBUTION CENTER (PDC) POWER SUPPLY 208Y/120V, 3 PHASE, 4 WIRE + GROUND 3.1 kVA/PDC POWER DRAW 8.6 AMPS MAXIMUM CURRENT/PHASE	DISTRIBUTION PANEL (DP) (NOT SHOWN)	PDC
1	POWER DISTRIBUTION CENTER (PDC) POWER SUPPLY 240Y/120V, 1 PHASE, 3 WIRE + GROUND 3.1 kVA/PDC POWER DRAW 12.9 AMPS MAXIMUM CURRENT/PHASE	DISTRIBUTION PANEL (DP) (NOT SHOWN)	PDC
2	SYSTEM CONTROL CENTER (SCC) POWER SUPPLY 120V, 1 PHASE, 2 WIRE + GROUND, 1.5 AMPS	DP (NOT SHOWN)	SCC
3	FLOW METER 4-20 mA, DC ANALOG INPUT (BY OTHERS)	FLOW METER PANEL (NOT SHOWN)	SCC
4	UV INTENSITY SENSOR 4-20 mA SIGNAL 1- SHIELDED TWISTED PAIR (24 AWG)	SCC	PDC
5	STATUS AND CONTROL LINK/BANK 4x 24 AWG CONDUCTORS	SCC	PDC
6	COMMON ALARM INDIVIDUAL ON/OFF, BANK STATUS (OPTIONAL)	SCC	CONTROL ROOM



PLAN VIEW



SECTION A



SECTION B

NOTE: SCC AND REMOVABLE GRATING (BY OTHERS) NOT SHOWN FOR CLARITY.

DESIGN CRITERIA	PEAK FLOW	2.3 MGD / 100 L/S (MAXIMUM)
	U.V TRANSMITTANCE AT 253.7 nm	65% (MINIMUM)
	SUSPENDED SOLIDS	30 mg / l (30 DAY AVERAGE)
	DISINFECTION STANDARD	200 FC / 100ml (30 DAY GEOMETRIC MEAN)



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PROJECT: 4168.00	DATE: JULY 2016
SCALE: N.T.S.	
DESIGNED BY: RCB	NAME
DRAWN BY: SAB	DATE
CHECKED BY: RCB	
RECORD DUGG.	



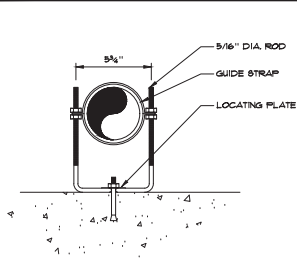
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**AUGUSTA REGIONAL
SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

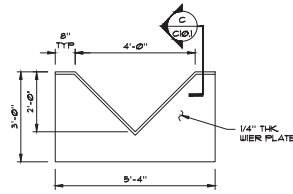
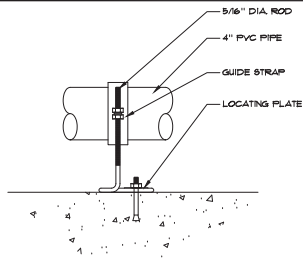
ULTRAVIOLET DISINFECTION SYSTEM

SHEET
C9.1

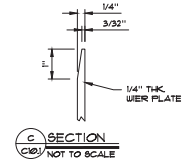
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



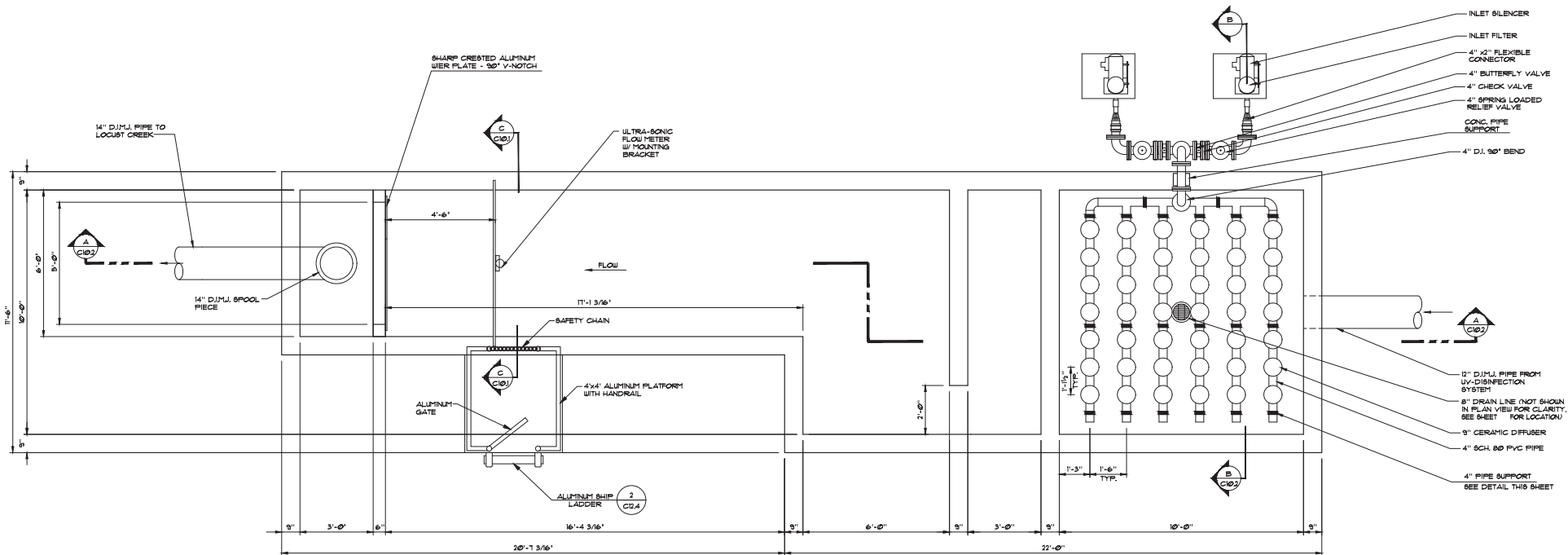
PIPE SUPPORT
SCALE: N.T.S.



SHARP CRESTED ALUMINUM WEIR PLATE - 90° V-NOTCH
SCALE: 1/2" = 1'-0"



SECTION C-C
NOT TO SCALE



PLAN
SCALE: 1/2" = 1'-0"

PROJECT: 4168.00 DATE: JULY 2016
SCALE: N.T.S.

DESIGNED BY	NAME	DATE
RCB <td>RCB <td></td> </td>	RCB <td></td>	
DRAWN BY <td>SAB <td></td> </td>	SAB <td></td>	
CHECKED BY <td>RCB <td></td> </td>	RCB <td></td>	
RECORD DUGS <td> <td></td> </td>	<td></td>	



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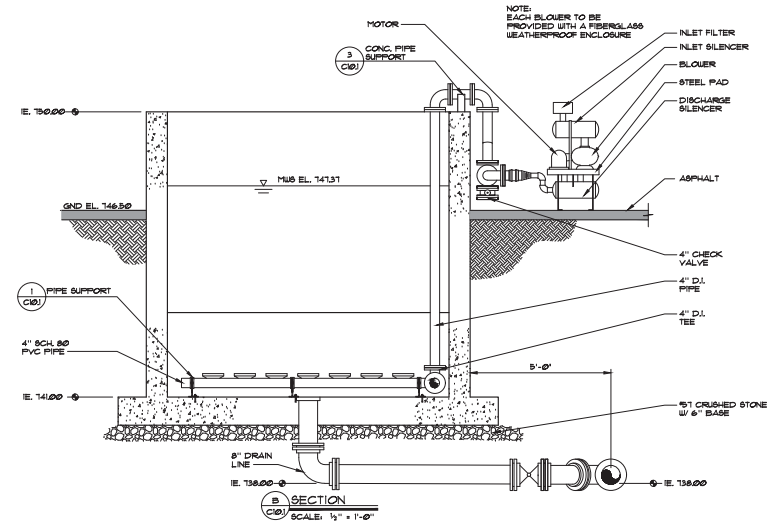
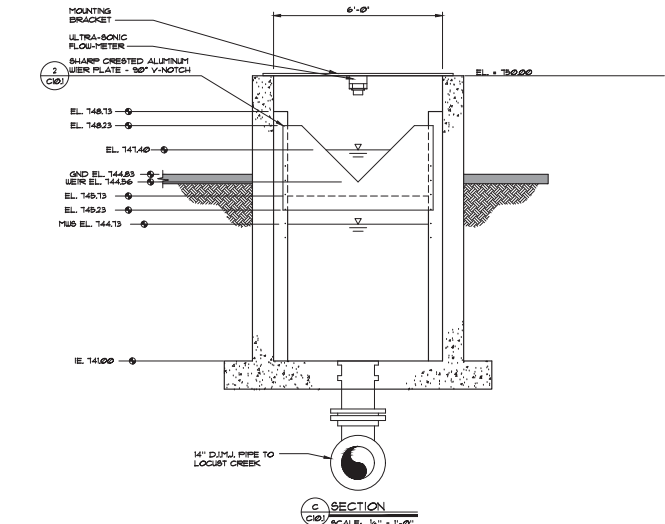
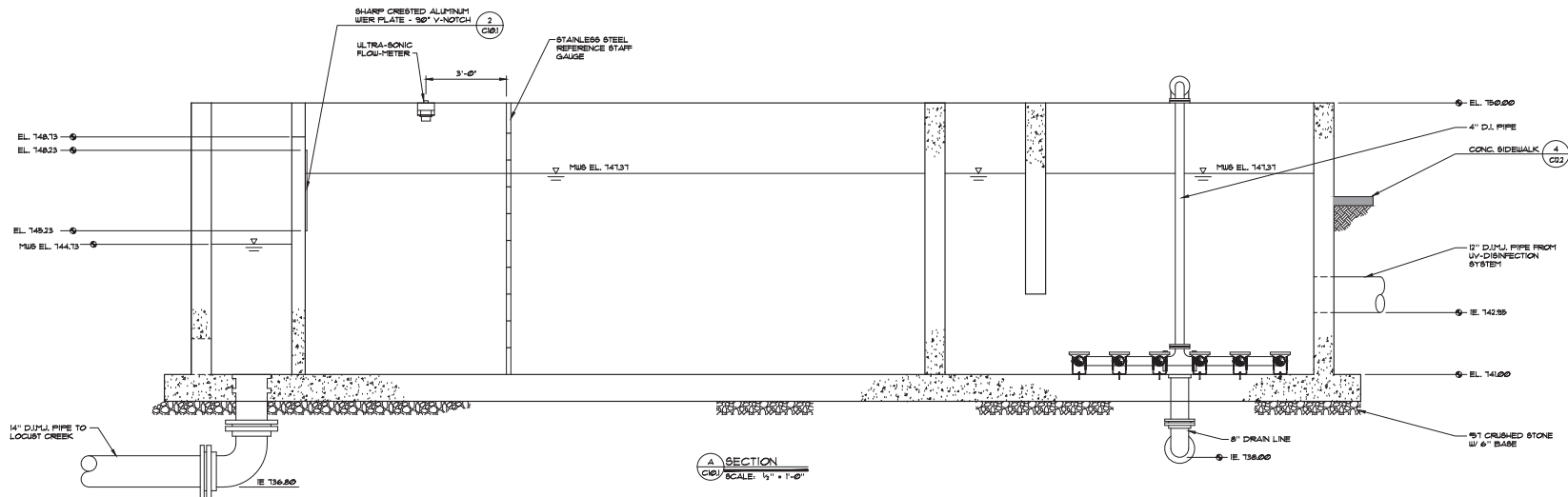
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SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

POST AERATION BASIN PLAN

SHEET
C10.1

NO.	DATE	REVISIONS	CHKD	APPRD	DATE

P:\Programs\AECISO\CONTRACT I - WWP\PROJECTS\4168\ASSET C10.1\POST AERATION BASIN PLAN.dwg 3/3/2016 1:38:34AM DWG to PDF JOB



NO.	DATE	REVISIONS	CHKD	APPRD	DATE

PROJECT:	4168.000	DATE:	JULY 2016
SCALE:	N.T.S.	DESIGNED BY:	RCB
		DRAWN BY:	SAB
		CHECKED BY:	RCB
		RECORD DWG:	

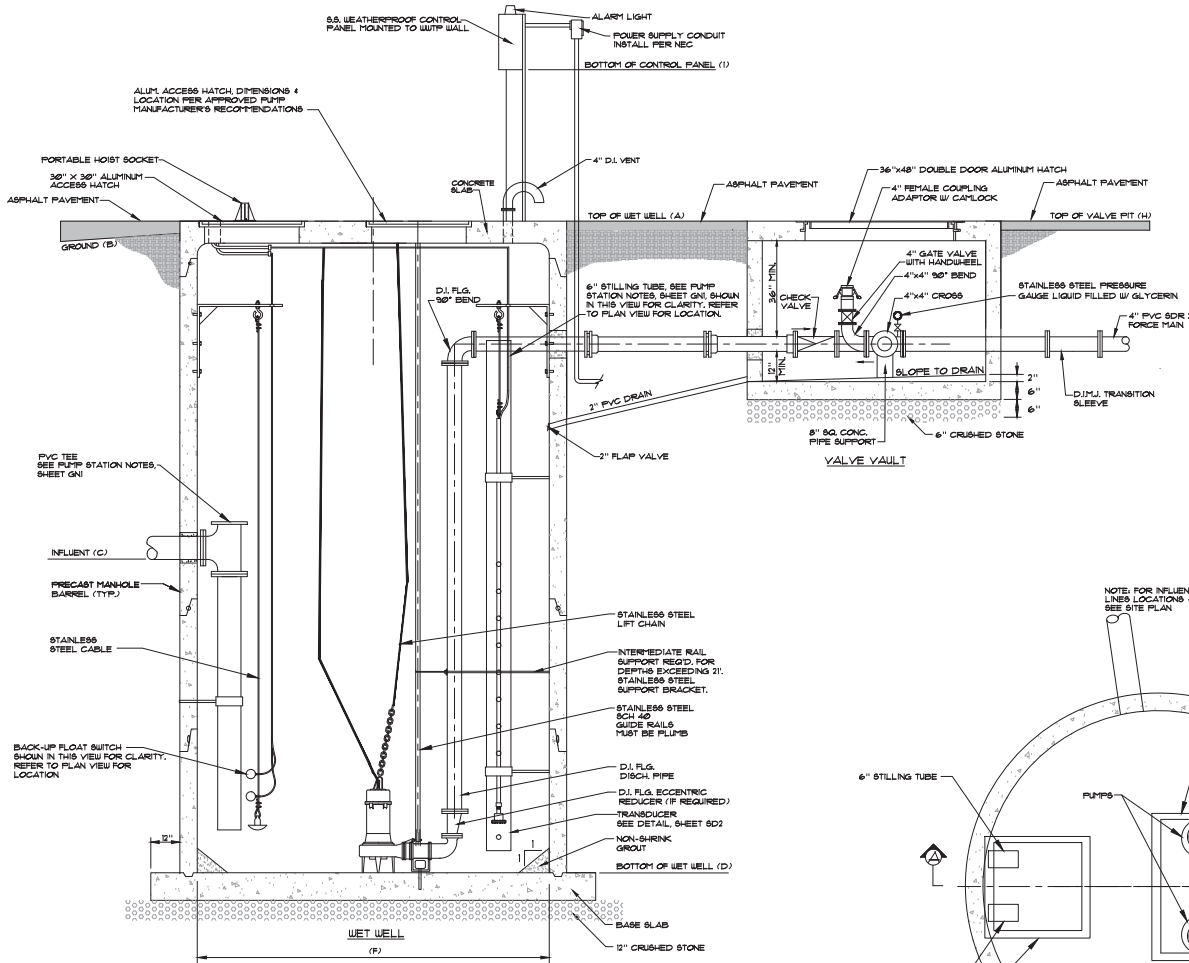


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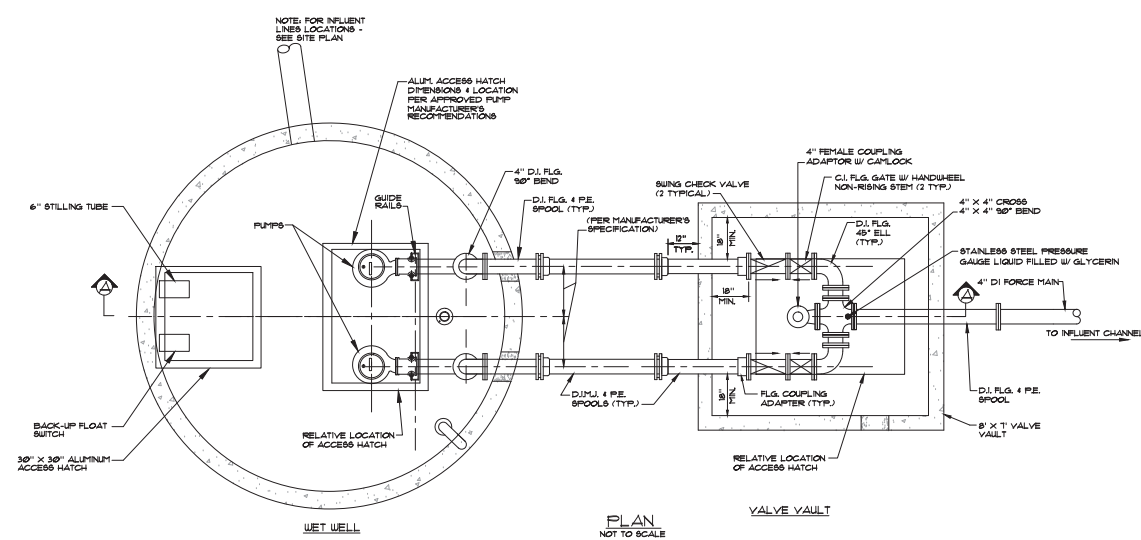
**AUGUSTA REGIONAL
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 BRACKEN COUNTY, KENTUCKY
 CONTRACT II WASTEWATER TREATMENT PLANT**

POST AERATION BASIN SECTIONS

SHEET
 C10.2



A SECTION
WUTP PUMP STATION
N.T.S.



PLAN
NOT TO SCALE

WUTP EFFLUENT PUMP STATION	
TOP OF WET WELL	(A) 131.50
FINISHED GND. ELEV.	(B) 131.50
DEEPEST INFLUENT LINE INVERT ELEV.	(C) 134.50
HIGH LEVEL ALARM ELEV.	133.50
LAG PUMP ON ELEV.	132.00
LEAD PUMP ON ELEV.	132.50
PUMPS OFF ELEV.	132.00
BOTTOM OF WET WELL ELEV.	(D) 128.50
BOTTOM CONTROL PANEL	(E) 140.00
DISCHARGE FLOW RATE	180 GPM
TOTAL DYNAMIC HEAD	45'
VALVE VAULT PIPING	4"
WET WELL DIAMETER	6'
TOP SLAB	SEE DETAIL
TOP OF VALVE PIT	(H) 140.00
100 YEAR FLOOD ELEV.	135.00'

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 416.00	DATE: JULY 2016
SCALE: AS NOTED	
DESIGNED BY: JDR	NAME: JDR
DRAWN BY: SAB	DATE:
CHECKED BY: JDR	
RECORD DRGS.	



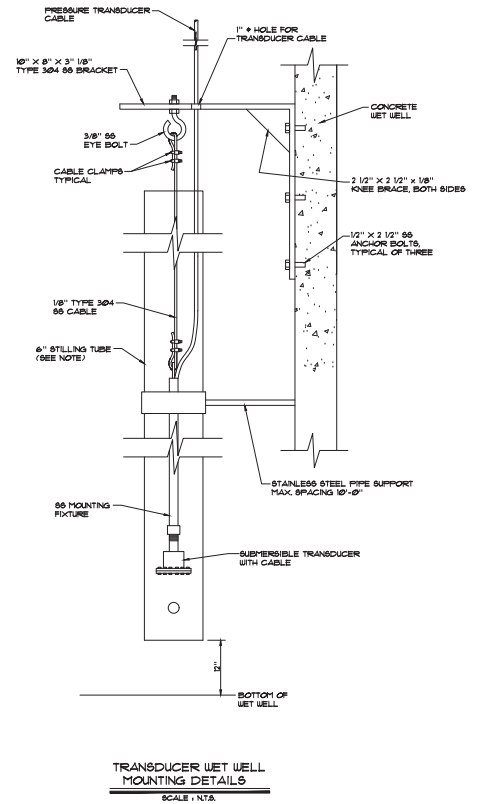
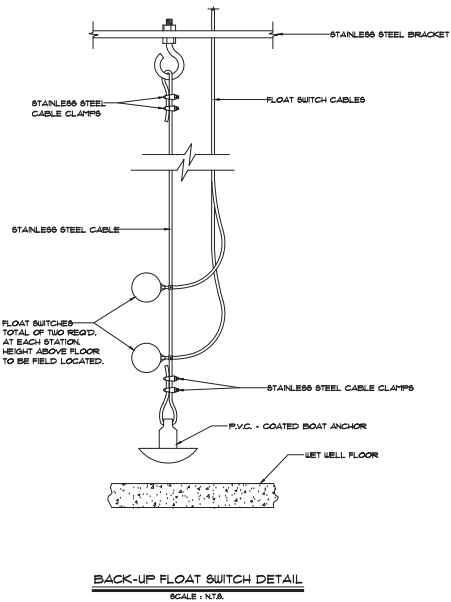
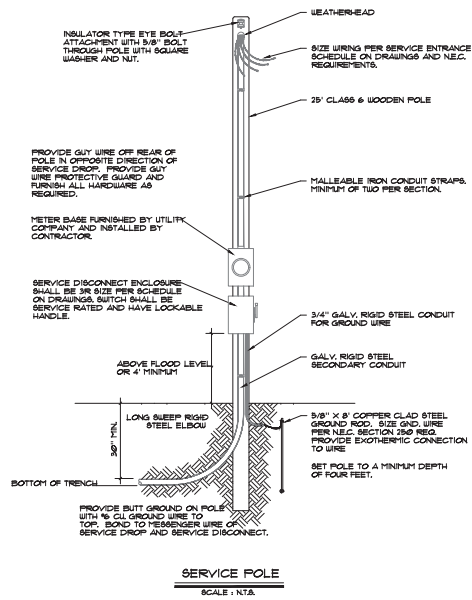
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CONTRACT II WASTEWATER TREATMENT PLANT**

WUTP PUMP STATION

SHEET
C11.1

P:\projects\416.00\CONTRACT II WUTP PUMP STATION.dwg, 7/20/16 2:30:21 AM, DWG 16 RPT (J)



NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

PROJECT: 416-8-00 DATE: JULY 2016
SCALE: AS NOTED

DESIGNED BY	NAME	DATE
JDR	JDR	
DRAWN BY	SAB	
CHECKED BY	JDR	
RECORD DWGS.		



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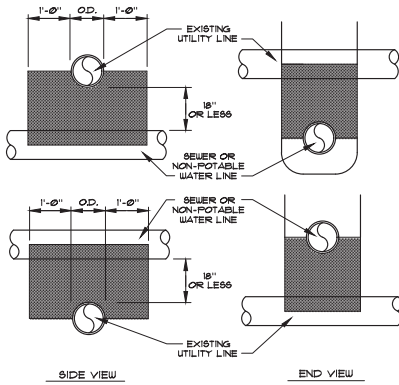
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CONTRACT II WASTEWATER TREATMENT PLANT**

PUMP STATION STANDARD DETAILS

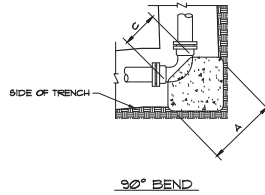
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C11.2

NOTES :

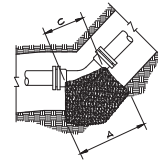
1. CONCRETE ENCASMENT SHALL BE USED WHEN CLEARANCE BETWEEN SEWER OR NON-POTABLE WATER LINE AND UTILITY LINE IS 18" OR LESS.
2. WHEN ENCOUNTERING UTILITY LINE WITH SEPARATION LESS THAN 18" VERTICAL OR 19" HORIZONTAL, CONCRETE ENCASMENT SHALL BE USED. FULL SECTION OF SEWER OR NON-POTABLE WATER LINE SHALL BE CENTERED UNDER UTILITY LINE TO ACHIEVE MAXIMUM JOINT DISPLACEMENT.
3. CONCRETE ENCASMENT IS NOT A SEPARATE PAY ITEM.



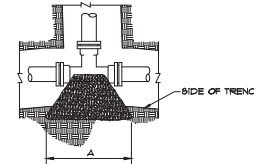
5 UTILITY CROSSING / ENCASMENT
NOT TO SCALE



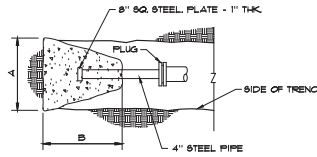
90° BEND



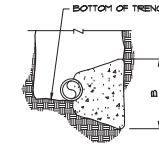
45°-22 1/2°-11 1/4° BEND



TEE



PLUG



TYPICAL SECTION

NOTES:

1. THRUST BLOCKS DESIGNED FOR 100 PSI PRESSURE AND 1000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING QUANTITIES WILL HAVE TO BE RECALCULATED.
2. THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
3. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
4. THRUST BLOCKING TO BE POURED IN PLACE CLASS B CONC.

1 THRUST BLOCKS
NOT TO SCALE

90° BEND							
SIZE	18"	16"	12"	10"	8"	6"	4"
A	12	6.4	5.0	4.0	3.3	2.6	1.6
B	12	6.4	5.0	4.0	3.3	2.4	1.6
C	32	3.0	1.6	1.5	1.2	1.2	0.9
D	3.6	3.2	2.5	2.0	1.6	1.2	0.9

45° BEND							
SIZE	18"	16"	12"	10"	8"	6"	4"
A	5.4	4.8	3.7	3.1	2.4	1.8	1.2
B	5.4	4.8	3.7	3.1	2.4	1.8	1.2
C	1.6	1.8	1.6	1.4	1.2	1.2	0.8
D	2.5	2.2	1.8	1.5	1.2	0.9	0.6

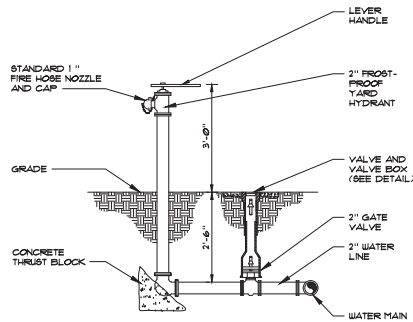
22 1/2° BEND							
SIZE	18"	16"	12"	10"	8"	6"	4"
A	3.8	3.4	2.6	2.3	1.8	1.3	0.9
B	3.8	3.4	2.6	2.3	1.8	1.3	0.9
C	1.6	1.8	1.6	1.4	1.2	1.0	0.8
D	1.8	1.6	1.3	1.1	0.9	0.6	0.4

11 1/4° BEND							
SIZE	18"	16"	12"	10"	8"	6"	4"
A	2.1	2.4	1.8	1.6	1.3	1.1	0.9
B	2.1	2.4	1.8	1.6	1.3	1.1	0.9
C	1.6	1.8	1.6	1.4	1.2	1.0	0.8
D	1.4	1.2	0.9	0.8	0.6	0.5	0.4

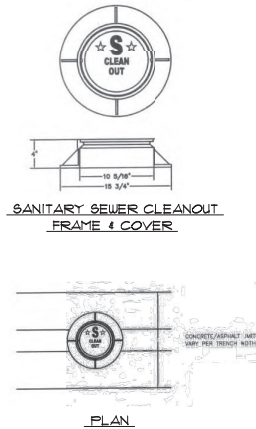
PLUG							
SIZE	18"	16"	12"	10"	8"	6"	4"
A	6.0	5.4	5.2	4.3	3.4	2.6	2.6
B	6.0	5.4	5.2	4.3	3.4	2.6	2.6
C	1.2	1.2	1.2	1.2	1.2	1.2	1.2
D	5.4	4.4	3.2	2.2	1.5	1.1	1.1

TEE							
SIZE	MAN BRANCH	18"	16"	12"	10"	8"	6"
A	6.0	5.4	5.2	4.2	2.6	4.3	2.6
B	6.0	5.4	5.2	4.3	2.6	4.3	2.6
C	3.2	3.0	1.2	1.2	1.2	1.2	1.2
D	3.6	3.0	2.6	2.1	1.3	2.1	1.3

DIMENSIONS ARE IN INCHES

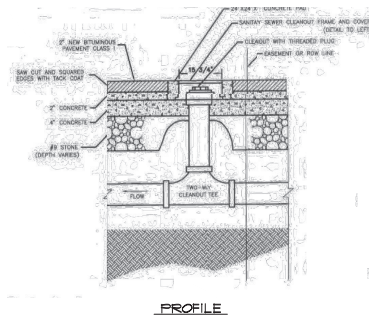


6 1" YARD HYDRANT
NOT TO SCALE



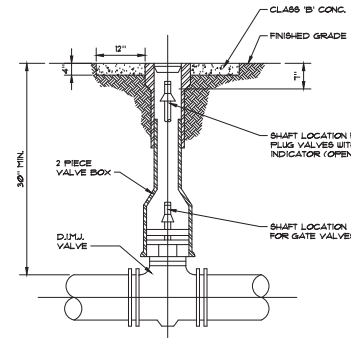
SANITARY SEWER CLEANOUT FRAME & COVER

PLAN

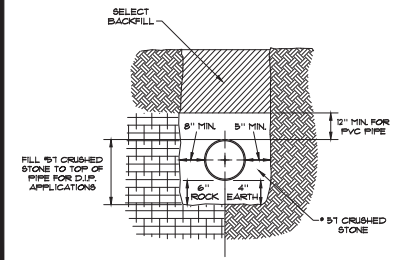


PROFILE

4 LATERAL CLEANOUT IN PAVED AREAS
NOT TO SCALE



3 VALVE AND VALVE BOX
NOT TO SCALE



2 EMBEDMENT
NOT TO SCALE

PROJECT: 4168.000 DATE: JULY 2016
SCALE: NTS

DESIGNED BY	NAME	DATE
RCB		
DRAWN BY	CNU	
CHECKED BY	RCB	
RECORD DUGS		



3 HMB CIRCLE
FRANKFORT, KENTUCKY
(502) 695-9800
(502) 695-9810 FAX

**AUGUSTA REGIONAL
SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

STANDARD DETAILS

SHEET
C12.1

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

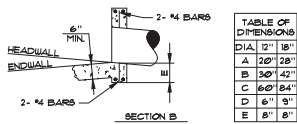
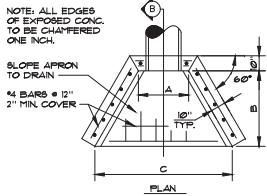
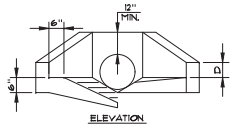
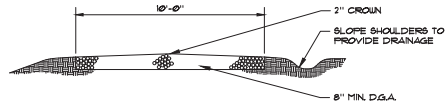


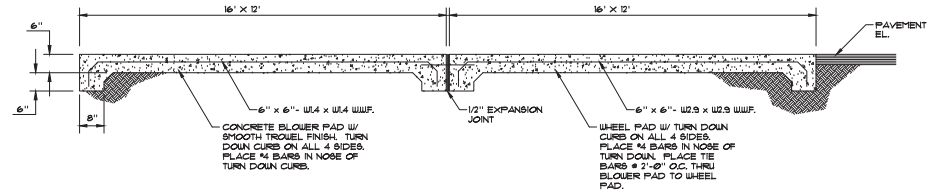
TABLE OF DIMENSIONS	
DIA	12" 18"
A	12" 18"
B	30" 42"
C	60" 84"
D	6" 9"
E	8" 8"



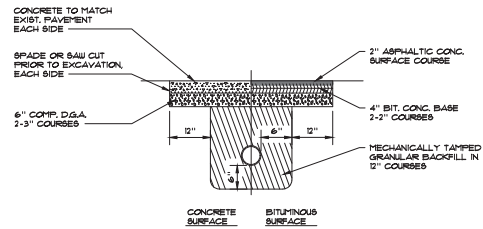
9 HEADWALL/ENDWALL
NOT TO SCALE



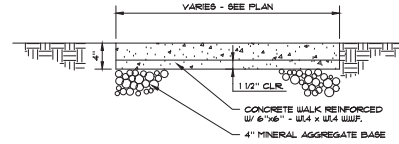
6 GRAVEL ACCESS ROAD
NOT TO SCALE



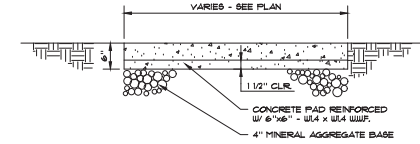
1 BLOWER PAD
NOT TO SCALE



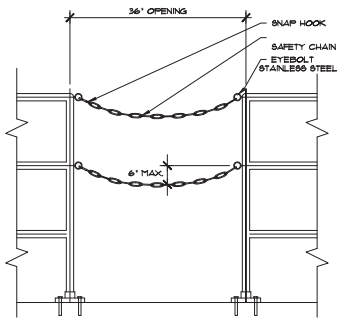
7 PAVEMENT REPAIR
NOT TO SCALE



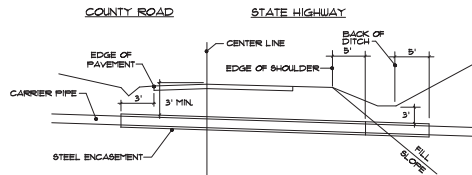
4 CONCRETE SIDEWALK
NOT TO SCALE



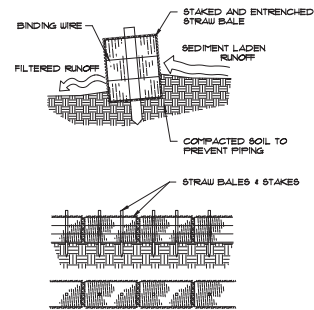
2 EQUIPMENT PAD
NOT TO SCALE



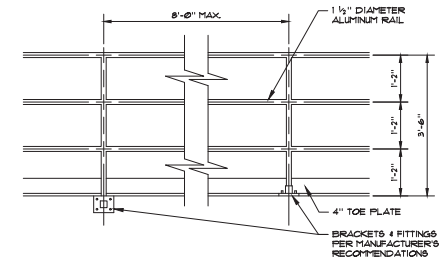
10 SAFETY CHAIN
NOT TO SCALE



8 TYPICAL ROAD CROSSING
NOT TO SCALE



5 EROSION CONTROL
NOT TO SCALE



3 HANDRAIL
NOT TO SCALE

PROJECT: 416800 DATE: JULY 2016
SCALE: NTS

DESIGNED BY	NAME	DATE
RCB		
DRAWN BY	NAME	DATE
CBW		
CHECKED BY	NAME	DATE
RCB		
RECORD DUGS	NAME	DATE



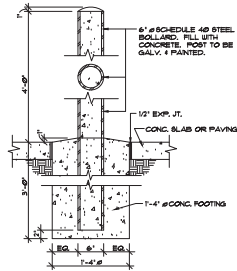
3 HMB CIRCLE
FRANKFORT, KENTUCKY
(502) 695-9800
(502) 695-9810 FAX

**AUGUSTA REGIONAL
SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

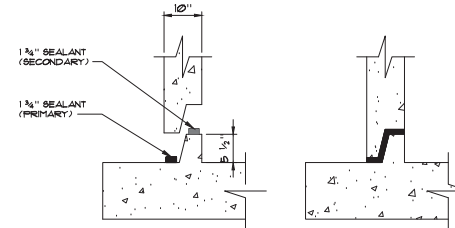
STANDARD DETAILS

SHEET
C12.2

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE

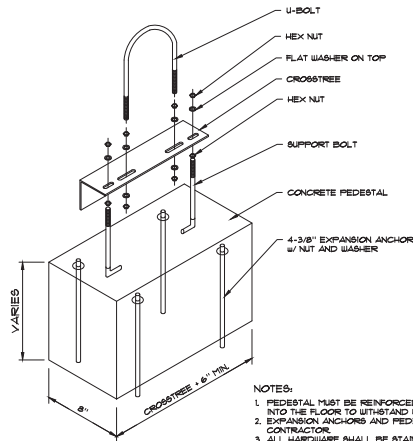


4 STEEL BOLLARD
POST DETAIL
NOT TO SCALE



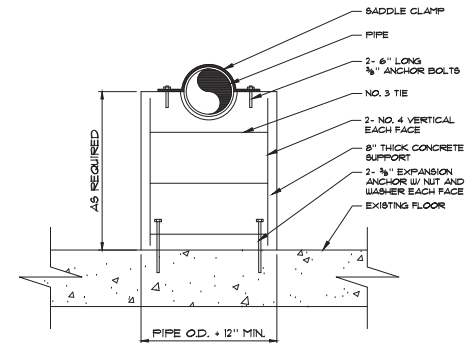
- NOTES:
1. REMOVE ALL DIRT AND LOOSE PARTICLES FROM SURFACE TO BE JOINED.
 2. SEALANT AND SURFACES TO BE JOINED MUST BE DRY.
 3. REMOVE ROLL OF SEALANT FROM CARTON AND PLACE AS SHOWN ABOVE.

1 SEALANT INSTALLATION
NOT TO SCALE



- NOTES:
1. PEDESTAL MUST BE REINFORCED AND TIED INTO THE FLOOR TO WITHSTAND UPLIFT.
 2. EXPANSION ANCHORS AND PEDESTALS BY CONTRACTOR.
 3. ALL HARDWARE SHALL BE STAINLESS STEEL.

3 CONCRETE SUPPORT
NOT TO SCALE



2 PIPE SUPPORT
NOT TO SCALE

PROJECT: 416800 DATE: JULY 2016
SCALE: NTS

DESIGNED BY	NAME	DATE
RCB		
DRAWN BY	CEW	
CHECKED BY	RCB	
RECORD DWGS.		



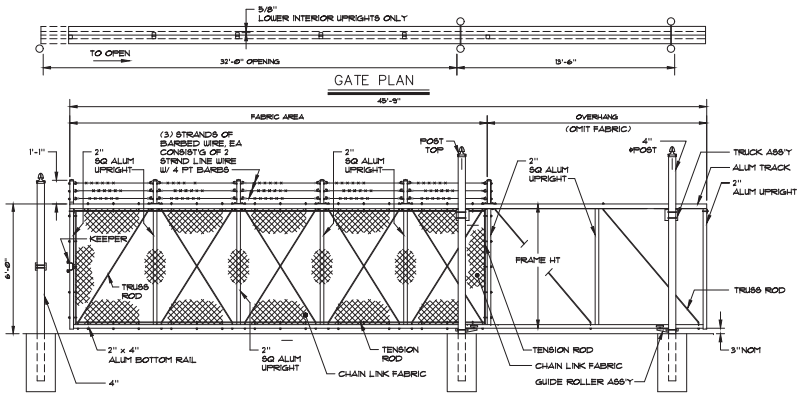
3 HMB CIRCLE
FRANKFORT, KENTUCKY
(502) 695-9800
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**AUGUSTA REGIONAL
SEWER AUTHORITY
BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT**

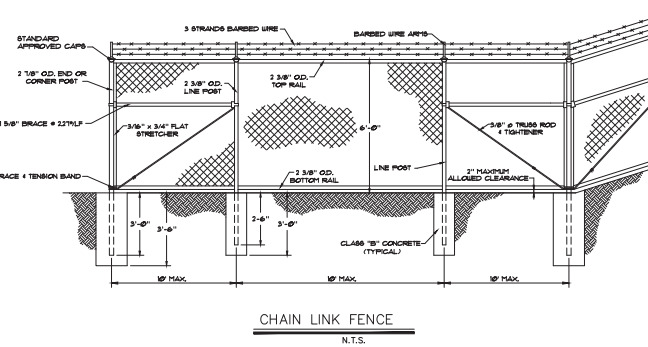
STANDARD DETAILS

SHEET
C12.3

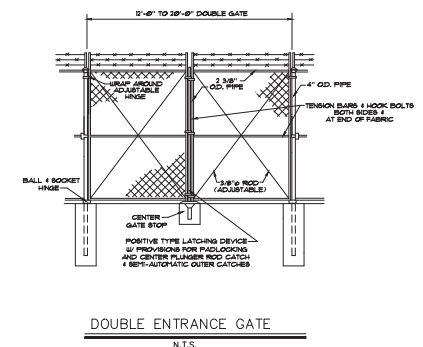
NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE



32'-0" SINGLE CANTILEVERED SLIDING GATE
N.T.S.

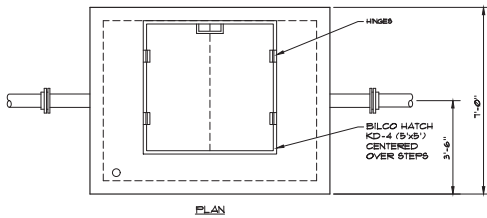


CHAIN LINK FENCE
N.T.S.

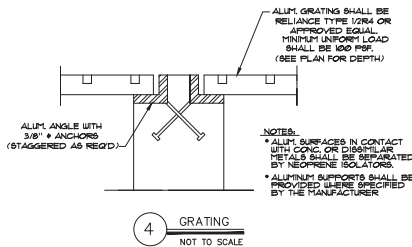


DOUBLE ENTRANCE GATE
N.T.S.

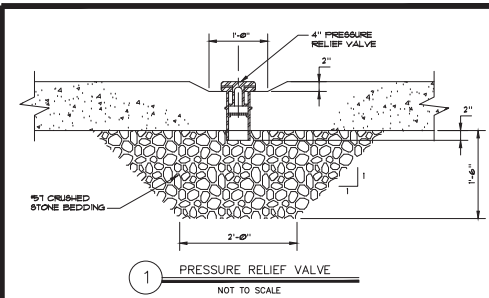
3 FENCE
NOT TO SCALE



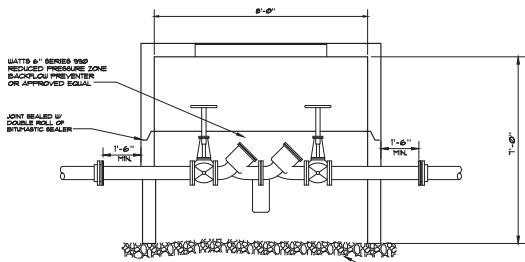
PLAN



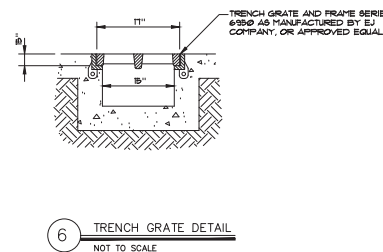
4 GRATING
NOT TO SCALE



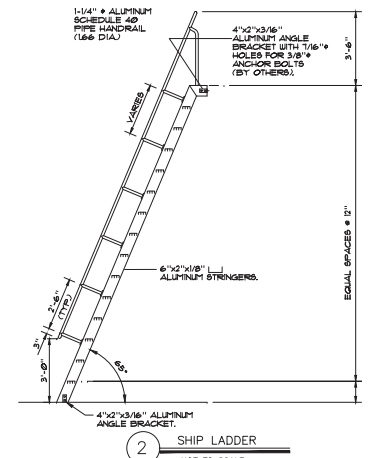
1 PRESSURE RELIEF VALVE
NOT TO SCALE



5 REDUCED PRESSURE ZONE BACKFLOW PREVENTER
NOT TO SCALE



6 TRENCH GRATE DETAIL
NOT TO SCALE



2 SHIP LADDER
NOT TO SCALE

PROJECT: 416800 DATE: JULY 2015
SCALE: NTS

DESIGNED BY	NAME	DATE
RCB	RCB	
DRAWN BY	CBW	
CHECKED BY	RCB	
RECORD DWGS.		



3 HMB CIRCLE
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AUGUSTA REGIONAL
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BRACKEN COUNTY, KENTUCKY
CONTRACT II WASTEWATER TREATMENT PLANT

STANDARD DETAILS

SHEET
C12.4

NO.	DATE	REVISIONS	CHK'D	APPR'D	DATE