

TOWN OF CLAY CLAY COUNTY, WEST VIRGINIA CONTRACT NO. 1: WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM UPGRADES PROJECT

ADDENDUM #2

JULY 20, 2023

THRASHER PROJECT #D10-11021.00 / DEI PROJECT #1810

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Thursday, June 29, 2023, on the above-referenced project. The following are clarifications and responses to questions posed by contractors for the above-referenced project.

A. <u>GENERAL</u>

1. **ADD** the attached Bipartisan Infrastructure Law Project Sign and the EPA Office of Inspector General Poster to the Contract Documents.

B. SPECIFICATIONS

DELETE item in SECTION 11375 – SBR TREATMENT SYSTEM / DIGESTER SYSTEM (11375.2.11.E. Portable Suspended Solids System)

C. <u>DRAWINGS</u>

Electrical Drawings to be **REPLACED:** Drawing Nos. 1810-9, 16C, 18, 18A, 18B, and 18C.

Electrical Drawings to be **ADDED:** Drawing Nos. 1810-21, 21A, 21B, 21C, 21D, 21E, and 21F

D. QUESTIONS AND RESPONSES

QUESTION

1. We had previously discussed providing non-standard control panels to fit in the existing building and be above the flood elevation. Below is the latest excerpt from the email that we had discussed. Is that still the plan?

You would need both the $42" \times 60"$ panel for the ICEAS controls. The 2^{nd} $36" \times 48"$ panel would also be needed to include the WAS pump motor starters along with the 3-phase power components.

RESPONSE

The non-standard panels will be required, as noted.

QUESTION

2. Specification mentions providing an MCC? Last discussion I had was that blower VFDs would be wall mount. Which is to be provided?

RESPONSE

The blower VFDs can be wall mounted, but any required conductors, conduits and/or other appurtenances are to be included in the bid price of the project.

QUESTION

3. For the blower VFDs, do you want VFDs for all 4 blowers?

RESPONSE

Yes.

QUESTION

4. The SBR spec section has a portable TSS probe. This probe is no longer available and should be deleted from the spec section.

RESPONSE

The TSS probe will be deleted from the specifications. (SECTION 11375.2.11.E)

QUESTION

5. PLAN DRAWINGS:

No details are shown regarding location of main control panel / local control panels, etc. for bar screen / washer compactor equipment. Please provide any necessary information.

RESPONSE

See attached electrical drawings.

QUESTION

6. SECTION 11028 Mechanically Cleaned Bar Screen with Washer Compactor: Sub Section 2.2.J – Noted channel width of 12" conflicts with the channel width of 18" on plan drawing sheet 7A. Please confirm the correct width.

RESPONSE

The correct width is 18 inches, as shown on Drawing 1810-7A.

QUESTION

7. SECTION 11028 Mechanically Cleaned Bar Screen with Washer Compactor: Sub Section 2.2.J – Section 1.1.B.1 states peak flow is 2 MGD, design conditions chart states peak flow is 1 MGD. Please confirm the correct peak flow.

RESPONSE

Both are correct. The peak flow capacity of the screen is to be 2 MGD; the peak expected flow at the wastewater treatment plant is 1 MGD.

QUESTION

8. SECTION 11028 Mechanically Cleaned Bar Screen with Washer Compactor: Sub Section 2.2.J – Section 1.1.B.1 states average flow is 0.6 MGD, design conditions chart states average flow is 0.2 MGD. Please confirm the correct average flow.

RESPONSE

The Average Daily Flow will be 0.2 MGD for this facility; the Peak Daily Flow will be 1.0 MGD.

QUESTION

9. SECTION 11028 Mechanically Cleaned Bar Screen with Washer Compactor: Sub Section 2.4.B.1 – The dead plate heaters specified here are rated for Class I Div 2. The design conditions chart in 2.2.J states the installation envelope is Class I Div 1. Please confirm what NFPA classification the dead plate heating units must meet.

RESPONSE

The rating is Class I Division 2 for this installation.

QUESTION

10. SECTION 15170 – Motors:

Sub Section 2.2.C.3 Fractional horsepower explosion proof motors for bar screen and washer compactor use Class F insulation. Class H is a custom option with high cost and long lead times. Please confirm Class F insulation is acceptable for these motors.

RESPONSE

Insulation that meets the requirements of Class I Division 2, according to NFPA 820 will be appropriate.

QUESTION

11. The description on the bid form for Bid Item 7 is 1,100' of 10" restrained joint pipe bursted. Plan sheet 17 calls out for 360' +/- of this to be cured in place liner and 600' +/- of pipe replacement with 10" restrained joint PVC. I assume that the plans are correct and there is no pipe bursting required? Please clarify.

RESPONSE

The Form of Proposal is correct; the entire 1,100 LF is to be replaced by pipe bursting.

QUESTION

12. MH DC-1 has (2) 14" DI pipes coming into it approximately 9' above the bottom of the manhole. Does this MH need to be a drop MH (per detail on Sheet 16)? Please advise.

RESPONSE

No. This is NOT a drop Manhole.

E. CLARIFICATIONS

- 1. Since design planning for this project was started prior to May 14, 2022, the Build America Buy America Act (BABA) requirements are waived.
- 2. AIS requirements are applied to this project.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, **bids will be received until 2:00 PM on August 1, 2023** at the Town of Clay, 956 Main Street, Clay, WV 25043. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

Frederick L. Hypes, P. Project/Manager

Enclosure: Electrical Drawings

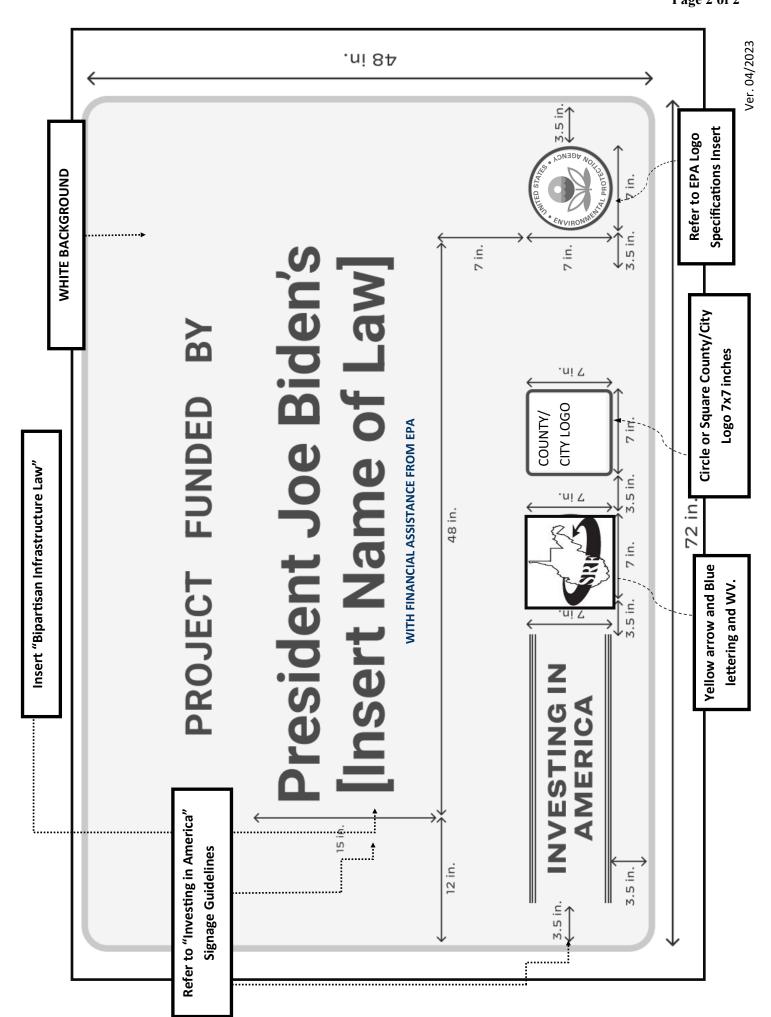
Bipartisan Infrastructure Law Project Sign EPA Office of Inspector General Poster

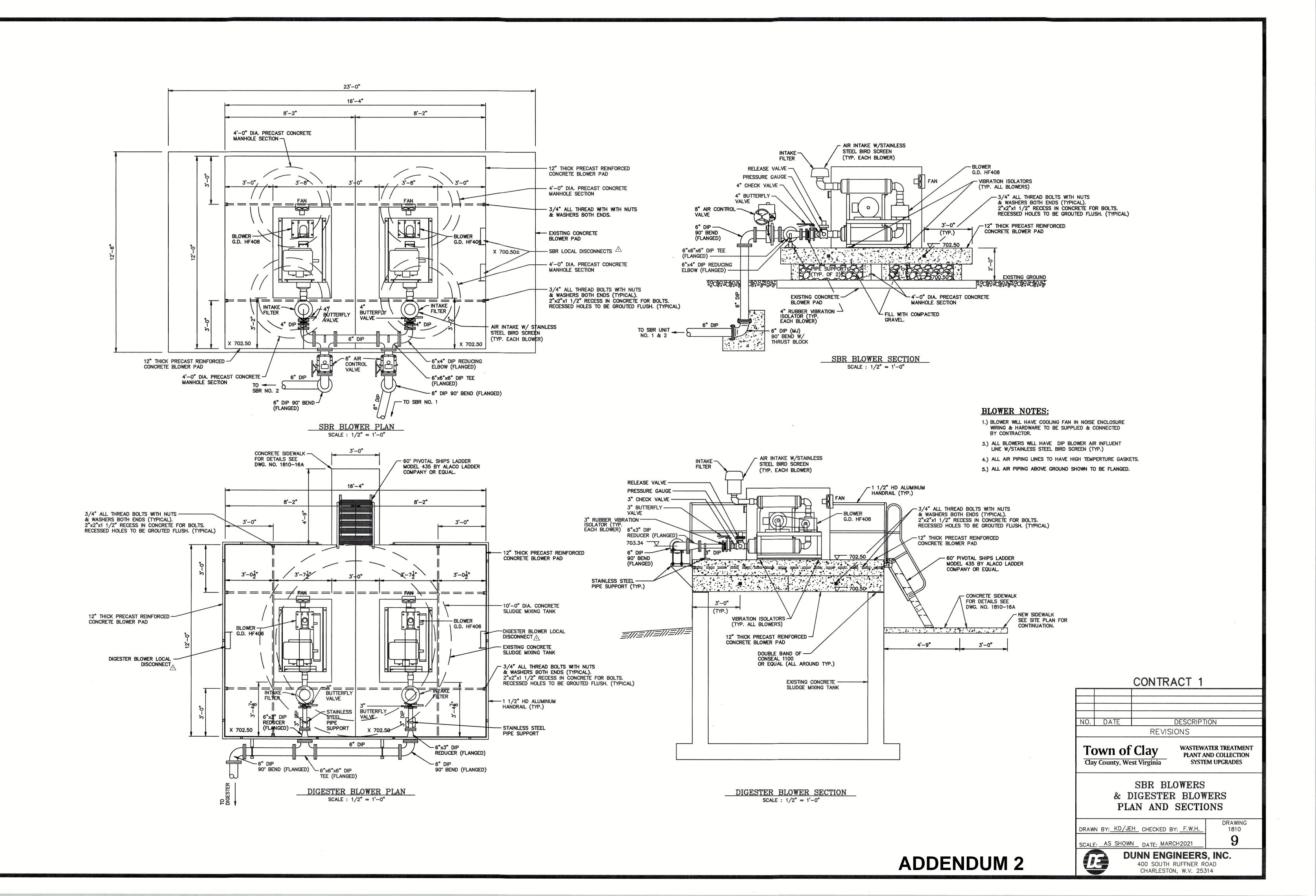


OFFICE OF INSPECTOR GENERAL U.S ENVIRONMENTAL PROTECTION AGENCY

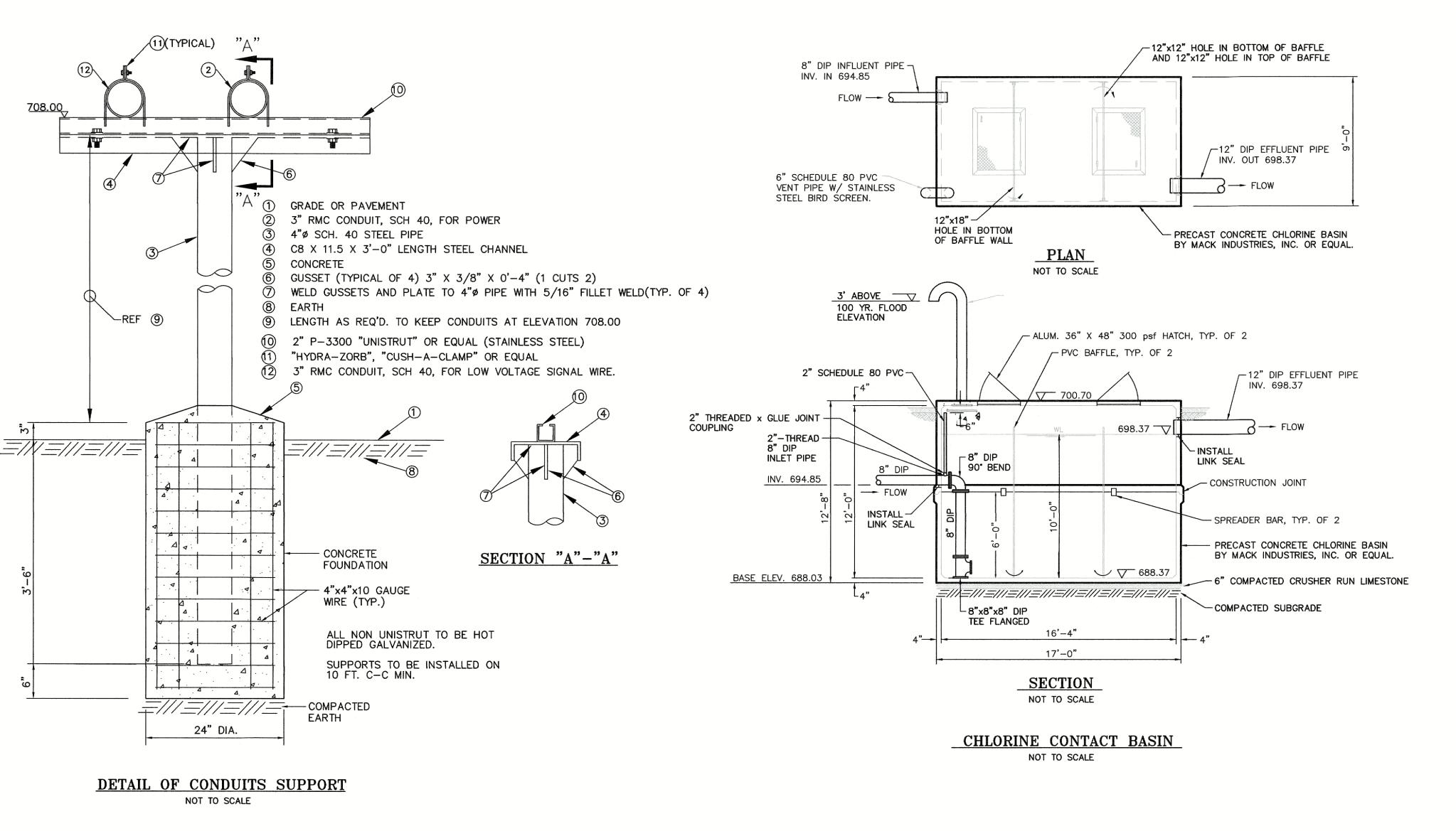


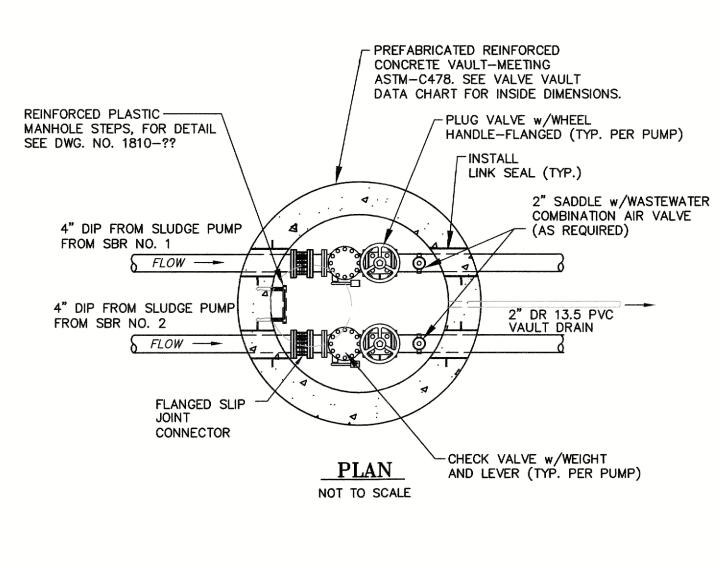


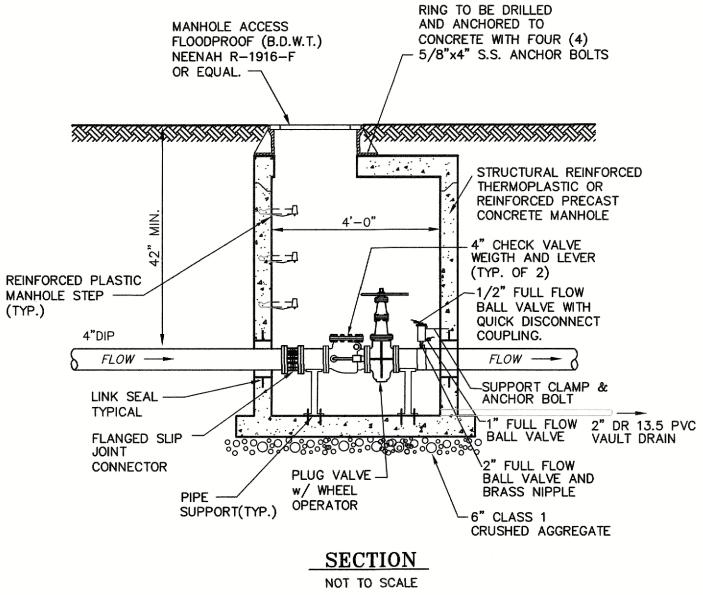




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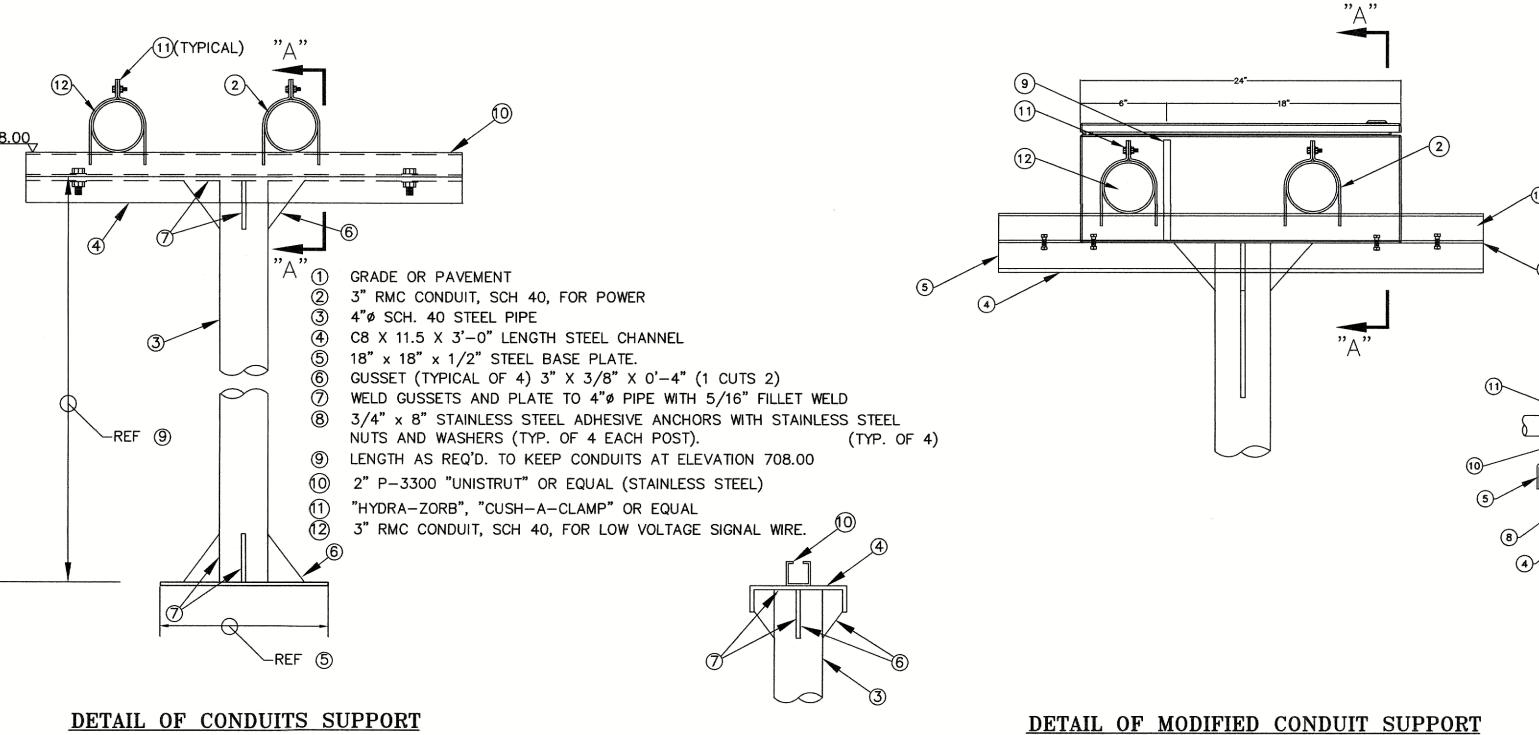






SBR WASTE SLUDGE VALVE VAULT
WITH AIR RELEASE

N.T.S.



SECTION "A"-"A"

WHEN MOUNTED TO CONCRETE STRUCTURE

NOT TO SCALE

24" x 12" x 10" NEMA 4/4X SINGLE HINGE DOOR,
SS CLAMPS, PADLOCK HASP AND STAPLE, POWDER COATED, GREY
3" RMC CONDUIT, SCH 40, FOR POWER
4"ø SCH. 40 STEEL PIPE
C8 X 11.5 X 3'-0" LENGTH STEEL CHANNEL
C6 X 8.2 X 3'-0" LENGTH STEEL CHANNEL (TYP 2)
GUSSET (TYPICAL OF 2) TO SUPPORT C6 CHANNEL.
WELD GUSSETS AND PLATE TO 4"ø PIPE AND CHANNEL WITH 5/16" FILLET WELD

8 BUTT WELD ALL MATING SURFACES STITCH WELD 2-5
 9 RED ELECTRICAL FIBERGLASS DIVIDER

(0) 2" P-3300 "UNISTRUT" OR EQUAL (STAINLESS STEEL)

1 "HYDRA-ZORB", "CUSH-A-CLAMP" OR EQUAL

SECTION "A"-"A'

WHEN JUNCTION / PULL BOX IS REQUIRED

NOT TO SCALE

2 3" RMC CONDUIT, SCH 40, FOR LOW VOLTAGE SIGNAL WIRE.

CONTRACT 1

DESCRIPTION

REVISIONS

Town of Clay
Clay County, West Virginia

NO. DATE

WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM UPGRADES

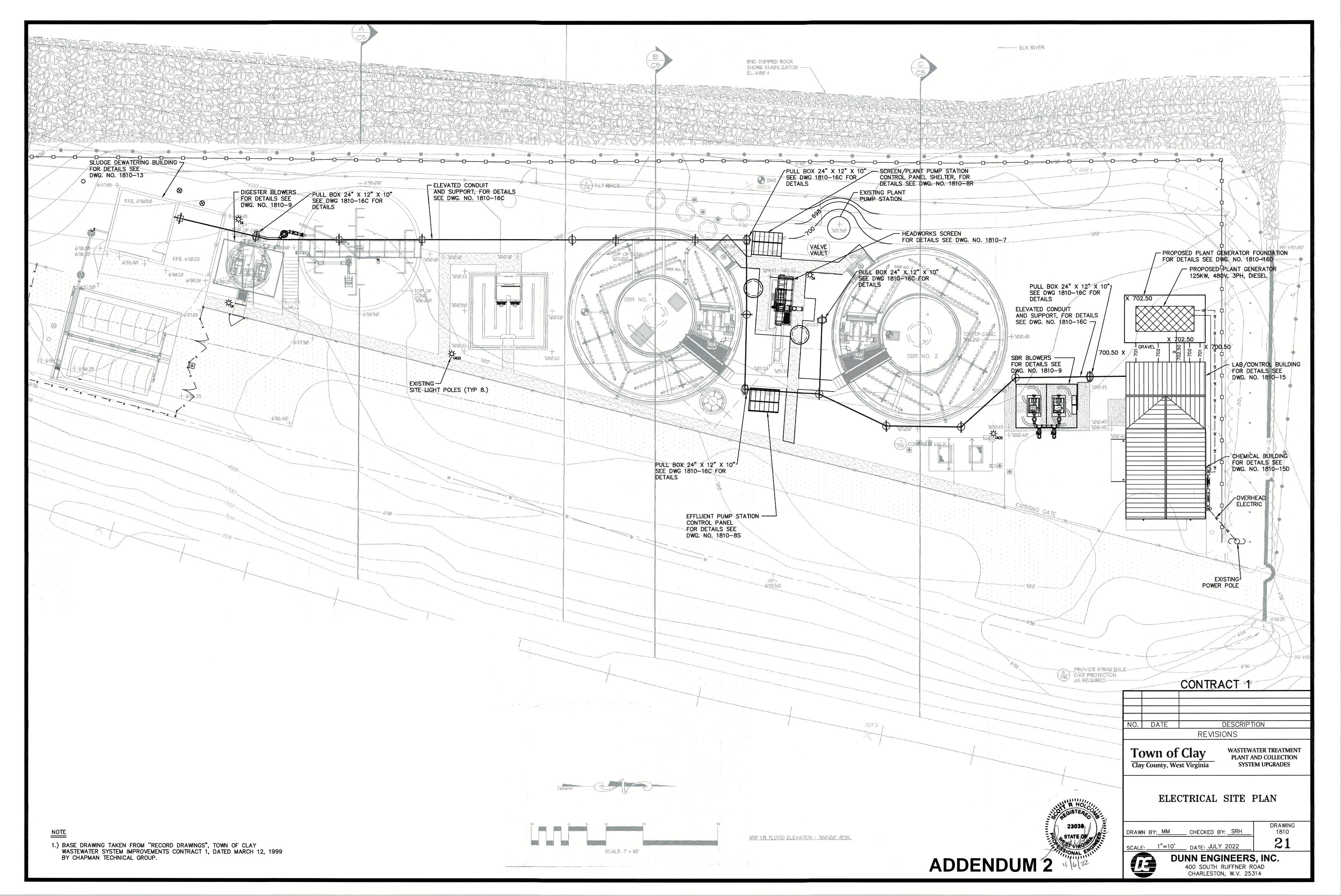
DRAWING

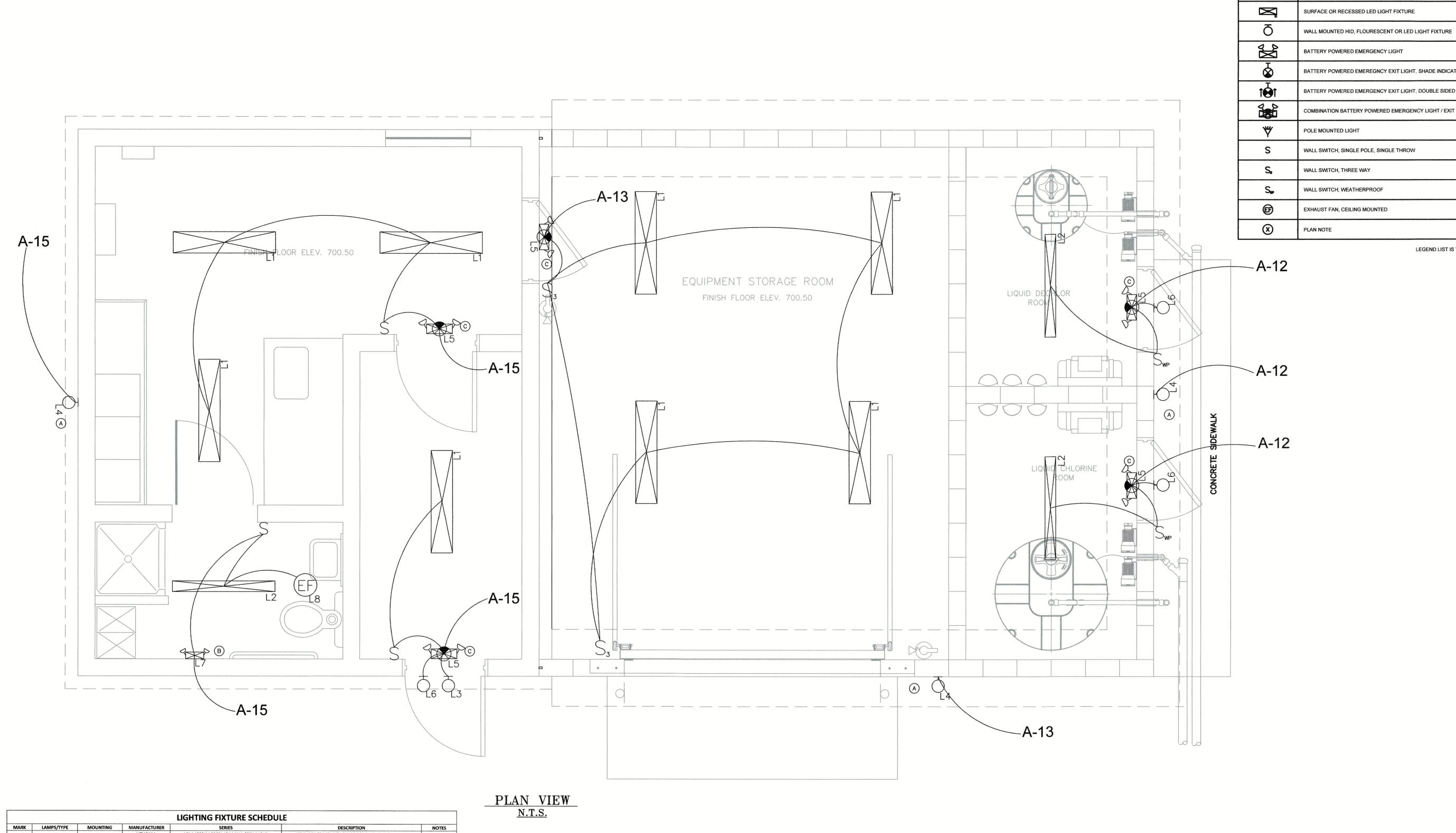
1810

ELECTRICAL DETAILS

DRAWN BY: MM ___ CHECKED BY: SRH







B) MOUNT NEW EMERGENCY LIGHT FIXTURES IN THIS AREA, 7.5' AFF. BATTERY POWERED EMERGENCY LIGHT C. MOUNT NEW EMERGENCY EXIT SIGNS/COMBO UNITS CENTERED OVER DOORWAYS. BATTERY POWERED EMEREGNCY EXIT LIGHT, SHADE INDICATES LIT FACE (D) INTERIOR LIGHTING CONDUIT TO BE EMT. BATTERY POWERED EMERGENCY EXIT LIGHT, DOUBLE SIDED LIT FACES E ALL CIRCUITS NEED TO BE VERIFIED AND MARKED SO THEY CAN COMBINATION BATTERY POWERED EMERGENCY LIGHT / EXIT SIGN BE REFLECTED ON AS-BUILT DRAWINGS. POLE MOUNTED LIGHT WALL SWITCH, SINGLE POLE, SINGLE THROW WALL SWITCH, THREE WAY WALL SWITCH, WEATHERPROOF EXHAUST FAN, CEILING MOUNTED PLAN NOTE LEGEND LIST IS TYPICAL. SOME MAY NOT BE USED ON THIS SHEET

PLAN NOTES

A) THIS LIGHT TO HAVE A BUILT-IN PHOTOCELL



CONTRACT 1

		001111111101
NO.	DATE	DESCRIPTION
	,	REVISIONS

Town of Clay Clay County, West Virginia

WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM UPGRADES

DRAWING

PROPOSED CHEMICAL BUILDING LIGHTING AND PLAN NOTES

DRAWN BY: MM CHECKED BY: SRH

N.T.S. DATE: JULY 2022 DUNN ENGINEERS, INC. 400 SOUTH RUFFNER ROAD CHARLESTON, W.V. 25314

120V-277V 120V-277V 120V-277V 120V-277V 120V SINGLE FACE, RED LETTERING, WHITE HOUSING

120V-277V

120V

120V-277V

4FT SURFACE MOUNT LOW PROFILE WRAPAROUND LED

4000 LUMEN, 4000K, 120V-277V

34 WATT

4FT SURFACE MOUNT VAPOR TIGHT LED STRIP

5000 LUMEN, 4000K, 120V-277V

42 WATT LED WALL LUMINAIRE

1600 LUMEN, 5000K, BUILT-IN PHOTOCELL

11 WATT, DARK BRONZE

LED WALL LUMINAIRE

97 WATT, DARK BRONZE

EXIT SIGN EMERGENCY LIGHT COMBO UNIT

REMOTE HEAD COMPATIBLE LED EMERGENCY EXIT LAMP REMOTE FIXTURE

ADJUSTABLE LED LAMP HEAD ALUMINUM WEATHER PROOF HOUSING

EMERGENCY LIGHT, WHITE

BATHROOM EXHAUST FAN LED LIGHT COMBO

110 CFM, 800 LUMEN, 3500K 11 WATT

LED AREA LUMINAIRE

21000 LUMENS, 5000K, NLTAIR2 CONTROLLER

183 WATT

8800 LUMENS, 5000K, BUILT-IN PHOTOCELL

VERIFY VOLTAGE TO OPERATE FIXTURES WITH ELECTRICAL DRAWINGS. LIGHTING FIXTURES SHALL COME COMPLETE WITH NECESSARY MOUNTING HARDWARE ALL RECESSED LIGHTING FIXTURES SHALL BE PAINTED AFTER FABRICATION. 5. ANY REQUEST FOR SUBSTITUTION TO THE LIGHTING FIXTURE SCHEDULE SHALL BE OF EQUAL OR HIGHER QUALITY AS DETERMINED BY ENGINEER. ANY PERSON REQUESTING TO SUBSTITUTE FIXTURES MUST SUBMIT IN BOUND FORM A COLLECTION OF MANUFACTURERS CUT SHEETS TO BE REVIEWED BY ENGINEER A MINIMUM OF (FOURTEEN) 14 DAYS PRIOR TO BID. ACCEPTED SUBSTITUTIONS WILL BE REFLECTED IN AN ADDENDUM.

LBL4 4000LM 80CRI 40K MIN1 GZT MVOLT

4WSNLED-LD4-40SL-F-UNV-L840-CD1-U

CSVT L48 5000LM MVOLT 50K 80CRI

TWX1 LED P1 50K MVOLT PE DDBXD

TWX3 LED P1 50K MVOLT PE DDBXD

LHQM LED R APCH7RSQ

SRM13GY

AP2SQLED

DSX1 LED P7 50K T4M MVOLT RPUMBA NLTAIR2 PIRH

WPSQLED-75

4APVTLD-54L850

COOPER

LITHONIA COOPER

LITHONIA COOPER

COOPER

LITHONIA

6. EMERGENCY BATTERY PACK FOR LIGHT FIXTURES SHALL BE RATED TO SUPPLY A MINIMUM OF 600 INITIAL LUMENS.

SURFACE

RECESSED

1. DIRECTION INDICATOR ON EXIT SIGNS SHALL COMPLY WITH NFPA 101 SECTION 5-10.4.1.2.

4000 LUMENS

5000 LUMENS

1600 LUMENS

8800 LUMENS

LED EM LIGHT

LED

GENERAL NOTES PERTAINING TO ALL FIXTURES:

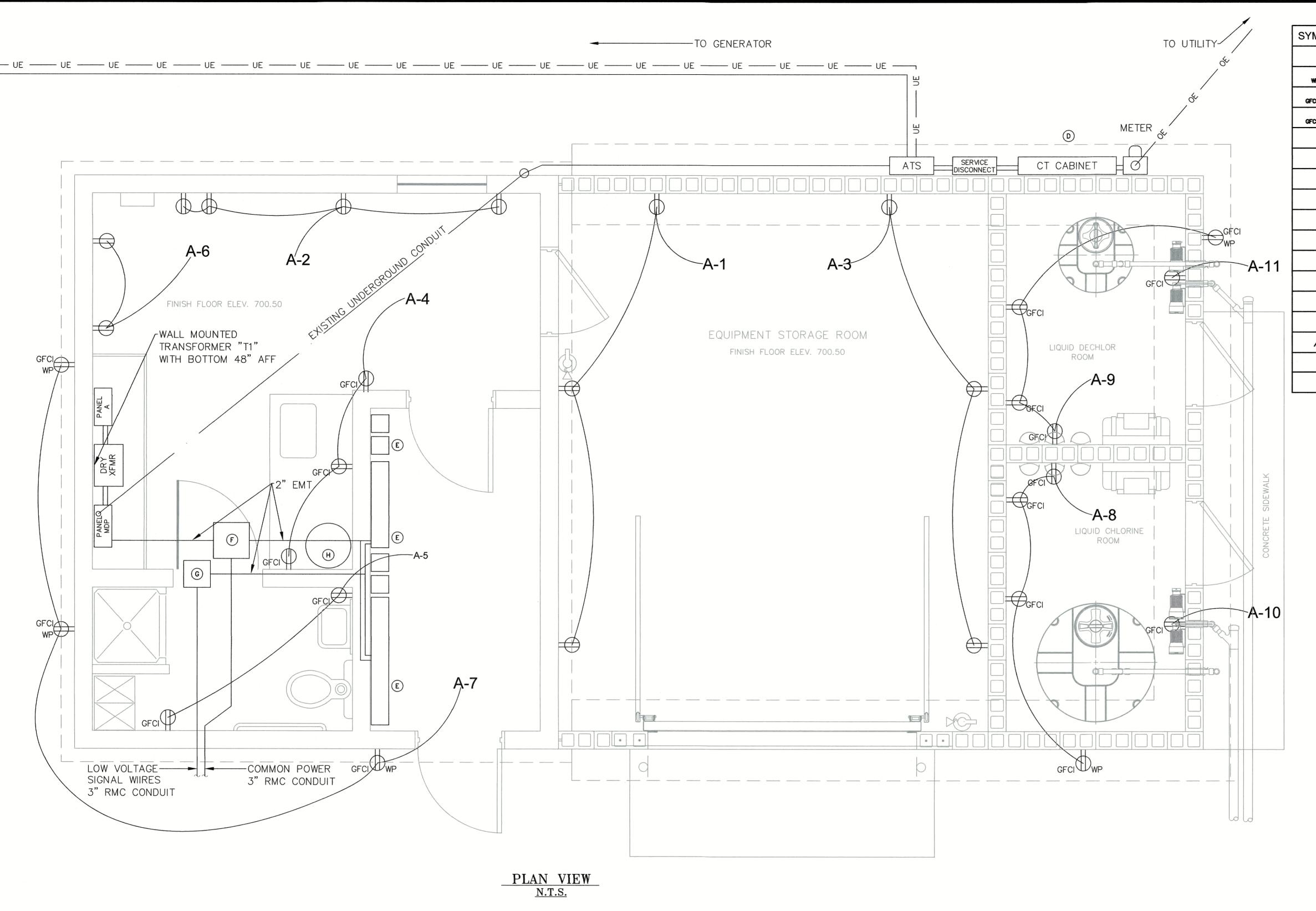
L6 LED EM REM HEAD

L8 LED/EXHAUST FAN

ADDENDUM 2

SYMBOLS

DESCRIPTIONS



0.44501.0		DIAM MOTEO
SYMBOLS	DESCRIPTIONS	PLAN NOTES
ШФ	DUPLEX RECEPTICLE	A ADHERE TO NEC REGULATIONS REGARDING AREAS OF USE FOR NM CABLE
"	DUPLEX RECEPTICLE, WEATHERPROOF	B EXPOSED INTERIOR CONDUIT RUNS TO BE EMT.
GFCI ∰	DUPLEX RECEPTICLE, GFCI PROTECTED	C ALL 120V RECEPTACLES TO BE 20A
GFCI WP	DUPLEX RECEPTICLE, GFCI / WEATHERPROOF	D ENSURE 42" CLEARANCE BETWEEN ENCLOSURES AND FENCE
•	240 VOLT RECEPTICLE	THE WALL RESERVED FOR SBR AND DIGESTER CONTROL PANELS AND VFDs
S	WALL SWITCH, SINGLE POLE, SINGLE THROW	F CEILING MOUNTED PULL BOX 16" X 16" X 8" FOR POWER/MOTOR CIRCUITS
S,	WALL SWITCH, THREE WAY	G CEILING MOUNTED PULL BOX 12" X 12" X 8" FOR LOW VOLTAGE SIGNAL WIRES
S.	WALL SWITCH, WEATHERPROOF	(H) A. O. SMITH EJCS-20 19 GAL WATER HEATER, 2500 WATT, 120V, REPL. EXIST.
(F)	EXHAUST FAN, CEILING MOUNTED	(J) SEE DWG 1810-21F ELECTICAL RISER FOR DETAILS AND POWER DISTRIBUTION
₩	WATER HEATER (ELECTRIC)	
1	PLAN NOTE	
()	DETAIL REFERENCE	
□ □ □	FUSED DISCONNECT	
B	NON-FUSED DISCONNECT	
N	MOTOR CONNECTION	
∇	THERMOSTAT, WALL MOUNTED	
A	HUMIDISTAT, WALL MOUNTED	

LEGEND LIST IS TYPICAL. SOME MAY NOT BE USED ON THIS SHEET



CONTRACT 1

NO.	DATE	DESCRIPTION

Town of Clay
Clay County, West Virginia

WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM UPGRADES

PROPOSED CHEMICAL BUILDING POWER AND PLAN NOTES

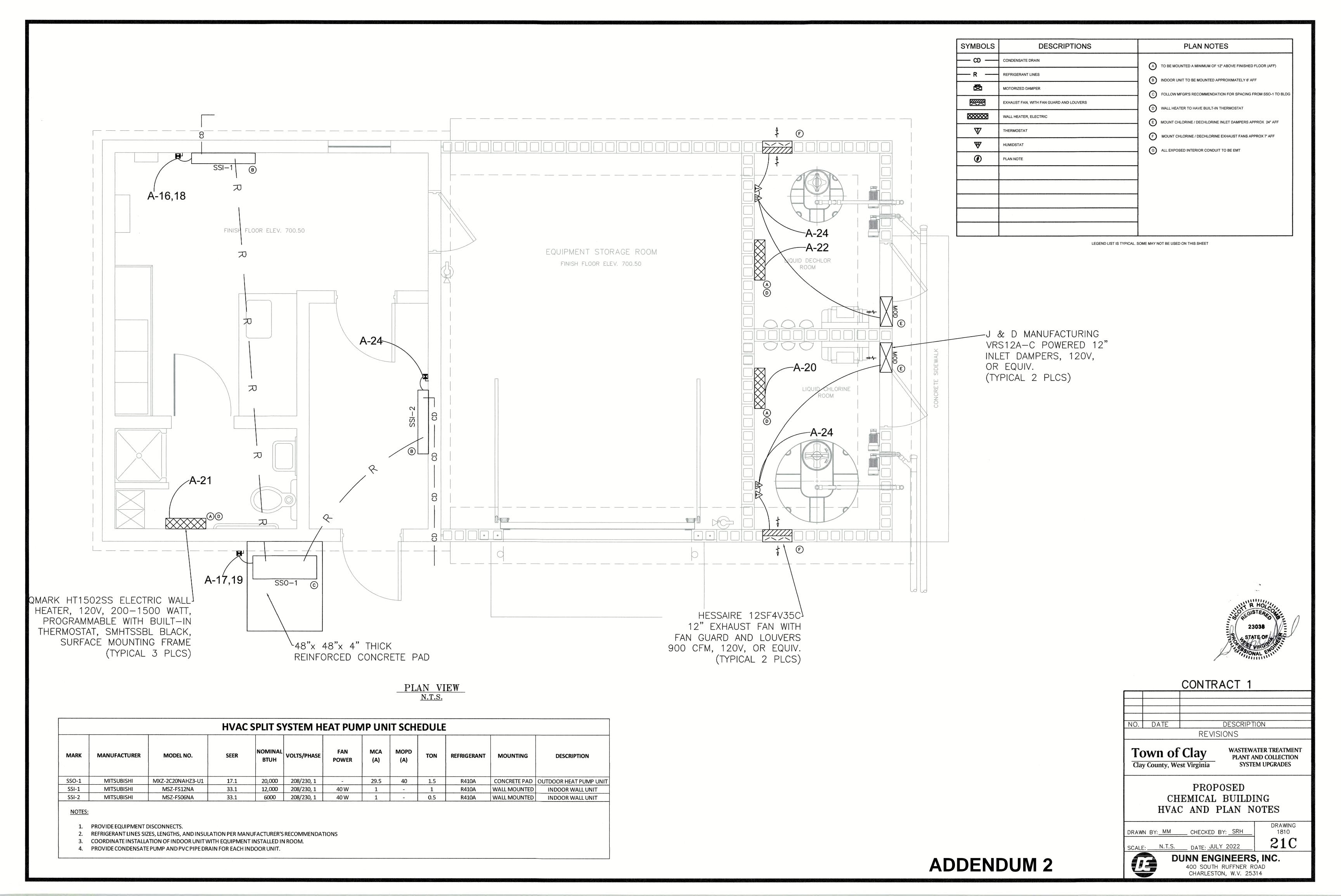
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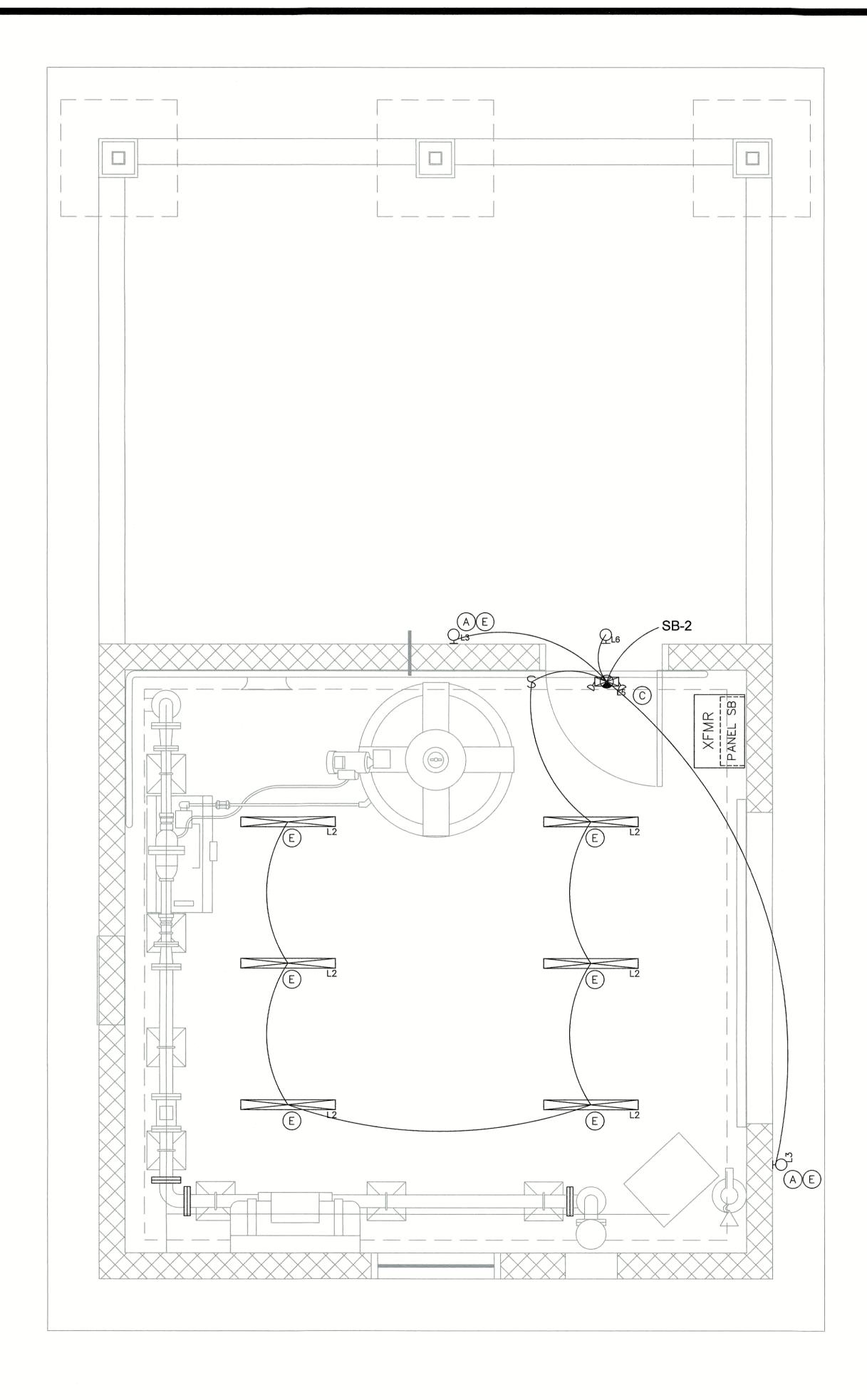
DRAWING 1810 21B

ADDENDUM 2

				MOT	OR LEAD CONDUIT SCI	IEDULE		
NUMBER	CIRCUITS	VOLTAGE	PHASE	ORIGIN	DESTINATION	WIRE SIZE/TYPE	CONDUIT	NOTES
1	SBR BLOWER 1	480	3	SBR/DIGESTER CONTROL PANEL	SBR BLOWER 1	(3) #4 THHN/THWN-2, 75 Deg C, Cu, BK (1) #10 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT
2	SBR BLOWER 2	480	3	SBR/DIGESTER CONTROL PANEL	SBR BLOWER 2	(3) #4 THHN/THWN-2, 75 Deg C, Cu, BK (1) #10 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT
3	SBR DECANTER 1	480	3	SBR/DIGESTER CONTROL PANEL	SBR DECANTER 1	(3) #12 THHN/THWN-2, 75 Deg C, Cu, BK (1) #12 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT
4	SBR DECANTER 2	480	3	SBR/DIGESTER CONTROL PANEL	SBR DECANTER 2	(3) #12 THHN/THWN-2, 75 Deg C, Cu, BK (1) #12 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT
5	SBR SLUDGE PUMP 1	480	3	SBR/DIGESTER CONTROL PANEL	SBR SLUDGE PUMP 1	(3) #12 THHN/THWN-2, 75 Deg C, Cu, BK (1) #12 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	IN COMMON 3" POWER CONDUIT
6	SBR SLUDGE PUMP 2	480	3	SBR/DIGESTER CONTROL PANEL	SBR SLUDGE PUMP 2	(3) #12 THHN/THWN-2, 75 Deg C, Cu, BK (1) #12 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	IN COMMON 3" POWER CONDUIT
7	DIGESTER BLOWER 1	480	3	SBR/DIGESTER CONTROL PANEL	DIGESTER BLOWER 1	(3) #10 THHN/THWN-2, 75 Deg C, Cu, BK (1) #10 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT
8	DIGESTER BLOWER 2	480	3	SBR/DIGESTER CONTROL PANEL	DIGESTER BLOWER 2	(3) #10 THHN/THWN-2, 75 Deg C, Cu, BK (1) #10 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT
9	DIGESTER DECANTER	208	3	SBR/DIGESTER CONTROL PANEL	DIGESTER DECANTER	(3) #12 THHN/THWN-2, 75 Deg C, Cu, BK (1) #12 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT
10	DIGESTER SLUDGE PUMP 1	480	3	SBR/DIGESTER CONTROL PANEL	DIGESTER SLUDGE PUMP 1	(3) #12 THHN/THWN-2, 75 Deg C, Cu, BK (1) #12 THHN/THWN-2, 75 Deg C, Cu, GR	3" RMC	USE VFD CABLE AS RECOMMEND BY OEM IN COMMON 3" POWER CONDUIT

SCALE: N.T.S. DATE: JULY 2022 DUNN ENGINEERS, INC. 400 SOUTH RUFFNER ROAD CHARLESTON, W.V. 25314





LIGHTING PLAN_NTS_

NOTE

				LIGHTING FIXTURE SCHEDULE						
MARK	LAMPS/TYPE	MOUNTING	MANUFACTURER	SERIES	DESCRIPTION	NOTES				
	LED		LITHONIA	LBL4 4000LM 80CRI 40K MIN1 GZT MVOLT	4FT SURFACE MOUNT LOW PROFILE WRAPAROUND LED					
L1	4000 LUMENS	SURFACE	COOPER	4WSNLED-LD4-40SL-F-UNV-L840-CD1-U	4000 LUMEN, 4000K, 120V-277V	120V-277				
	1000 201712110				34 WATT					
	LED		LITHONIA	CSVT L48 5000LM MVOLT 50K 80CRI	4FT SURFACE MOUNT VAPOR TIGHT LED STRIP					
L2	5000 LUMENS	SURFACE	COOPER	4APVTLD-54L850	5000 LUMEN, 4000K, 120V-277V	120V-277				
	3000 EGIVIENS				42 WATT					
	LED		LITHONIA	TWX1 LED P1 50K MVOLT PE DDBXD	LED WALL LUMINAIRE					
L3	LED 1600 LUMENS	WALL	COOPER	WP1150LPC	1600 LUMEN, 5000K, BUILT-IN PHOTOCELL	120V-277				
	1000 LOIVILING				11 WATT, DARK BRONZE					
	LED		LITHONIA	TWX3 LED P1 50K MVOLT PE DDBXD	LED WALL LUMINAIRE					
L4	LED 8800 LUMENS	WALL	COOPER	WPSQLED-75	8800 LUMENS, 5000K, BUILT-IN PHOTOCELL	120V-277				
	8800 LUIVIENS				97 WATT, DARK BRONZE					
			LITHONIA	LHQM LED R	EXIT SIGN EMERGENCY LIGHT COMBO UNIT					
L5	LED EM EXIT LIGHT	WALL	WALL	WALL	WALL	WALL	COOPER	APCH7RSQ	SINGLE FACE, RED LETTERING, WHITE HOUSING	120V
					REMOTE HEAD COMPATIBLE					
,			LITHONIA	ELAQWP	LED EMERGENCY EXIT LAMP REMOTE FIXTURE					
L6	LED EM REM HEAD	WALL	COOPER	SRM13GY	ADJUSTABLE LED LAMP HEAD	9.6V				
					ALUMINUM WEATHER PROOF HOUSING					
			LITHONIA	EU2C						
L7	LED EM LIGHT	WALL	COOPER	AP2SQLED	EMERGENCY LIGHT, WHITE	120V-277				
			BROAN	AE110L	BATHROOM EXHAUST FAN LED LIGHT COMBO					
L8	LED/EXHAUST FAN	RECESSED			110 CFM, 800 LUMEN, 3500K	120V				
					11 WATT					
.,.			LITHONIA	DSX1 LED P7 50K T4M MVOLT RPUMBA NLTAIR2 PIRH	LED A DEA LLIMINAIDE					
	1.50	2015	LITHONIA	DDBXD G1	LED AREA LUMINAIRE	120V-277V				
L9	LED	POLE			21000 LUMENS, 5000K, NLTAIR2 CONTROLLER					
	1				183 WATT					

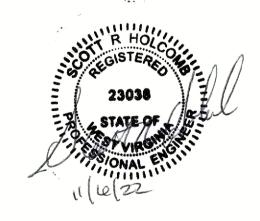
GENERAL NOTES PERTAINING TO ALL FIXTURES:

- 1. DIRECTION INDICATOR ON EXIT SIGNS SHALL COMPLY WITH NFPA 101 SECTION 5-10.4.1.2.
- VERIFY VOLTAGE TO OPERATE FIXTURES WITH ELECTRICAL DRAWINGS.
 LIGHTING FIXTURES SHALL COME COMPLETE WITH NECESSARY MOUNTING HARDWARE.
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 ALL RECESSED LIGHTING FIXTURES SHALL BE PAINTED AFTER FABRICATION.
- 5. ANY REQUEST FOR SUBSTITUTION TO THE LIGHTING FIXTURE SCHEDULE SHALL BE OF EQUAL OR HIGHER QUALITY AS DETERMINED BY ENGINEER. ANY PERSON REQUESTING TO SUBSTITUTE FIXTURES MUST SUBMIT IN BOUND FORM A COLLECTION OF MANUFACTURERS CUT SHEETS TO BE REVIEWED BY ENGINEER A MINIMUM OF (FOURTEEN) 14 DAYS PRIOR TO BID. ACCEPTED
- SUBSTITUTIONS WILL BE REFLECTED IN AN ADDENDUM.

 6. EMERGENCY BATTERY PACK FOR LIGHT FIXTURES SHALL BE RATED TO SUPPLY A MINIMUM OF 600 INITIAL LUMENS.

WALL MOUNTED HID, FLOURESCENT OR LED LIGHT FIXTURE BATTERY POWERED EMERGENCY LIGHT BATTERY POWERED EMER. EXIT LIGHT, SHADE INDICATES LIT FACE BATTERY POWERED EMER. EXIT LIGHT, DOUBLE SIDED LIT FACES COMBINATION BATTERY POWERED EMERGENCY LIGHT / EXIT SIGN	T SHALL HAVE BUILT-IN PHOTOCELL EW EMERGENCY LIGHT FIXTURES IN THIS AREA, 7.5' AFF. EW EMERGENCY EXIT SIGNS/COMBO UNITS CENTERED ORWAYS
WALL MOUNTED HID, FLOURESCENT OR LED LIGHT FIXTURE BATTERY POWERED EMERGENCY LIGHT C. MOUNT NOT OVER DO OVER DO OVER DO D. INTERIOR BATTERY POWERED EMER. EXIT LIGHT, DOUBLE SIDED LIT FACES COMBINATION BATTERY POWERED EMERGENCY LIGHT / EXIT SIGN S. WALL SWITCH, SINGLE POLE, SINGLE THROW	EW EMERGENCY LIGHT FIXTURES IN THIS AREA, 7.5' AFF.
BATTERY POWERED EMER. EXIT LIGHT, SHADE INDICATES LIT FACE BATTERY POWERED EMER. EXIT LIGHT, DOUBLE SIDED LIT FACES COMBINATION BATTERY POWERED EMERGENCY LIGHT / EXIT SIGN S WALL SWITCH, SINGLE POLE, SINGLE THROW	EW EMERGENCY EXIT SIGNS/COMBO UNITS CENTERED ORWAYS
BATTERY POWERED EMER. EXIT LIGHT, SHADE INDICATES LIT FACE BATTERY POWERED EMER. EXIT LIGHT, DOUBLE SIDED LIT FACES E. REPLACE COMBINATION BATTERY POWERED EMERGENCY LIGHT / EXIT SIGN F. ALL CIRCUTRANSFE WALL SWITCH, SINGLE POLE, SINGLE THROW	ORWAYS
COMBINATION BATTERY POWERED EMERGENCY LIGHT / EXIT SIGN F. ALL CIRCUTRANSFE S WALL SWITCH, SINGLE POLE, SINGLE THROW	LIGHTING CONDUIT TO BE EMT.
S WALL SWITCH, SINGLE POLE, SINGLE THROW	EXISTING LIGHTS.
S WALL SWITCH, SINGLE POLE, SINGLE THROW	JITS MUST BE VERIFIED ARE MARKED SO THEY CAN BE
S ₃ WALL SWITCH, THREE WAY	RRED TO AS-BUILT DRAWINGS.
S _{MP} WALL SWITCH, WEATHERPROOF	
EF EXHAUST FAN, CEILING MOUNTED	
# PLAN NOTE	

LEGEND LIST IS TYPICAL. SOME MAY NOT BE USED ON THIS SHEET



CONTRACT 1

NO.	DATE	DESCRIPTION
		REVISIONS

Town of Clay
Clay County, West Virginia

WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM UPGRADES

PROPOSED
SLUDGE DEWATERING BUILDING
HVAC AND PLAN NOTES

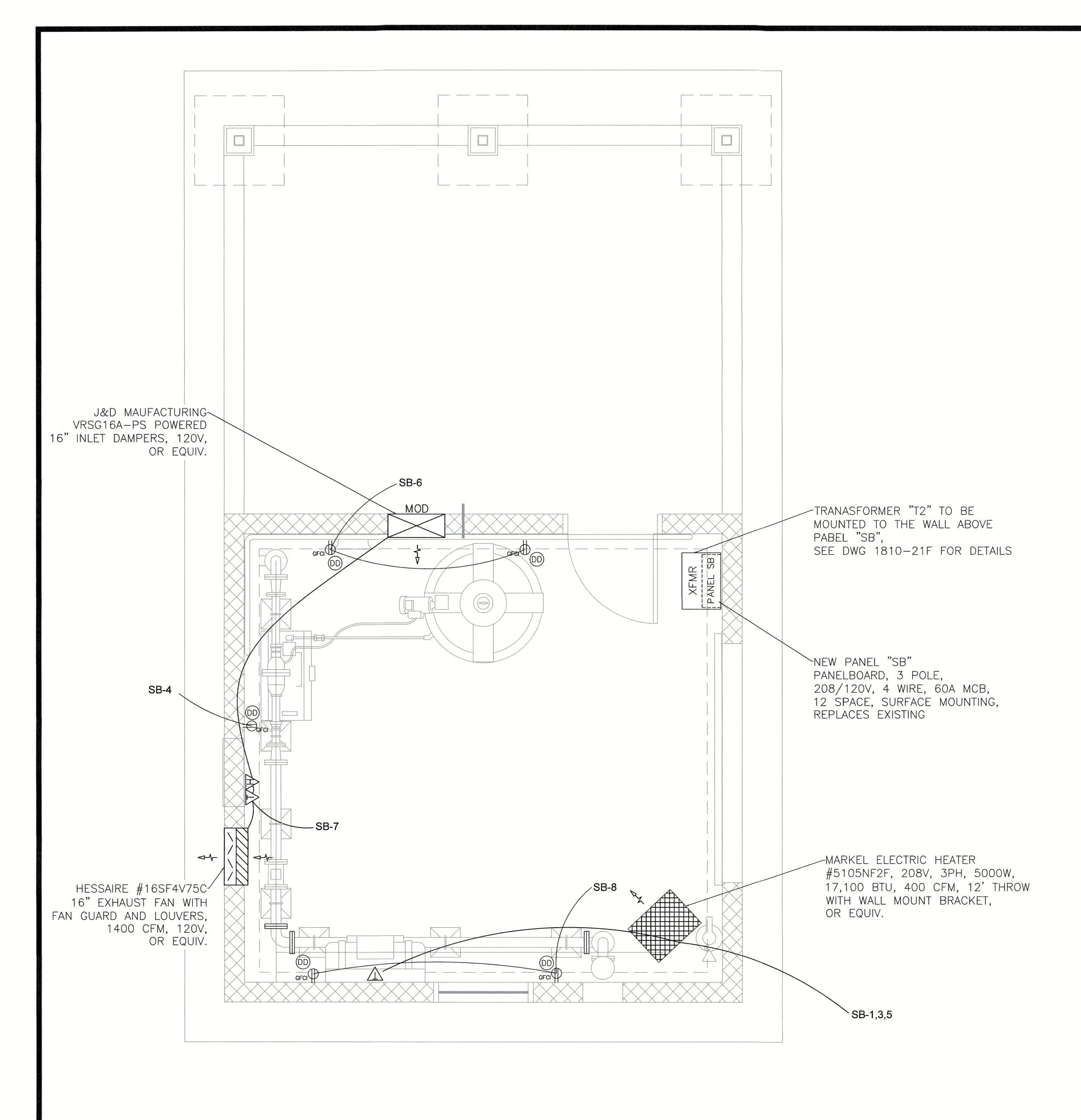
DRAWN BY: MM CHECKED BY: SRH

SCALE: N.T.S. DATE: JULY 2022

= DRAWING 1810 21D

ADDENDUM 2

^{1.)} BASE DRAWING TAKEN FROM "RECORD DRAWINGS", TOWN OF CLAY WASTEWATER SYSTEM IMPROVEMENTS CONTRACT 1, DATED MARCH 12, 1999 BY CHAPMAN TECHNICAL GROUP.



POWER & HVAC PLAN NTS

1.) BASE DRAWING TAKEN FROM "RECORD DRAWINGS", TOWN OF CLAY WASTEWATER SYSTEM IMPROVEMENTS CONTRACT 1, DATED MARCH 12, 1999 BY CHAPMAN TECHNICAL GROUP.

		T					D:	nel:	SR		· · · · · · · · · · · · · · · · · · ·		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		X	NEMA-1					1A-3F			NEMA	-4X STAIN	ILESS STEE	L		
				Sludge B	uilding		1		-	and the second	1				,	
		х	208/120 \			3	Phas	se		4	Wire			-	-	
			Main Lug	Only						Х	Main	Breaker				
				Bus I	Rating:	100	Amp	os		Main B	reaker	60	Amps			
				Minir	num In	terrupting	Capa	acity:		2:	2000		Amps Syr	n		
			Flush Mo	unt	anna incompansiones				Х	Surface N	lount			INCOME DE LA COMPANSA DEL COMPANSA DE LA COMPANSA D		
		Provide i	f checked:		70000000				-	Isolated (and the same	Bus	31000000000000000000000000000000000000	2-15 Walle 1-2-16-16		
		X		nt Ground	Bus					Gutter Ta	and the second second					
		Sub-Feed Lugs Through-Feed Lugs														
Serving	Load	Cond.	Wire	C/B	Cir.	Key	Α	В	С	Key	Cir.	C/B	Wire	Cond.	Load	Serving
	(Watts)	Size	Size	Trip	No.	Notes				Notes	No.	Trip	Size	Size	(Watts)	
	4667	2	1	Amps				<u> </u>			<u> </u>	Amps	1	2	200	Linking Laterian (5. to sing (
Florendo Mall Hookey	1667	-	ĺ	2/20	1		Х	- V			2	1/20			306	Lighting Interior/Exterior/Emer
Electric Wall Heater	1667	-		3/20	3		-	X	V		4	1/20		ļ	1920 1440	Polymer Control Panel Recept General Receptacle 1
Fisheria For Antalya Laurina	1667 1000	_		1/20	5 7		X	├	Х		6 8	1/20 1/20			1440	General Receptacle 2
Exhaust Fan/Intake Louvre	1000	 	 	1/20	9	5	 ^	X		5	10	1/20			1440	General Receptacie 2
	·	<u> </u>	_		11	5	 	 ^	Х	5	12					
Total Load-Odd Circuit (Watts)	6001	1	re size #12 nduit size:		imum	except as i			-	reaker loc).			5106	Total Load-Even Circuit (Watts)
(Watts) 2. All conduit size: 3/4 inch minimum except as no 3. Ground fault interrupting circuit breaker. 4. Spare circuit breaker.											31	Total Connected Full Load Amps				
		7. Arc-fa	only. -trip circui ult circuit l oid operat	oreaker.		r										

SYMBOLS	DESCRIPTIONS	PLAN NOTES
Ф	DUPLEX RECEPTICLE	(AA) ADHERE TO NEC REGULATIONS REGARDING AREAS OF USE FOR NM CABLE
WF	DUPLEX RECEPTICLE, WEATHERPROOF	(BB) EXPOSED INTERIOR CONDUIT RUNS TO BE EMT.
GFCI (DUPLEX RECEPTICLE, GFCI PROTECTED	CC) ALL 120V RECEPTACLES TO BE 20A
GFCI WP	DUPLEX RECEPTICLE, GFCI / WEATHERPROOF	(DD) REPLACE EXISTING RECEPTACLES WITH 20A GFCI RECEPTACLES
#	QUAD RECEPTICLE	
S	WALL SWITCH, SINGLE POLE, SINGLE THROW	
S _e	WALL SWITCH, WEATHERPROOF	
	MOTORIZED DAMPER	
#	PLAN NOTE	
Œ	EXHAUST FAN, CEILING MOUNTED	
Ø	MOTOR CONNECTION	
₩ ₩	THERMOSTAT / HUMIDISTAT	
XXX	DETAIL REFERENCE	

LEGEND LIST IS TYPICAL. SOME MAY NOT BE USED ON THIS SHEET



	C	O	N	1		R	F	1	C	Ī	1
7	April 18	12 8 11.	policing.	100	to the		200		200 N	The state of the s	100000

NO.	DATE	DESCRIPTION	
		REVISIONS	
To	wa of	Class Wastewater Treatmen	Г

Town or Clay Clay County, West Virginia

PLANT AND COLLECTION SYSTEM UPGRADES

PROPOSED SLUDGE DEWATERING BUILDING POWER, HVAC AND PLAN NOTES

DRAWING 1810

21E

DRAWN BY: MM ___ CHECKED BY: SRH

