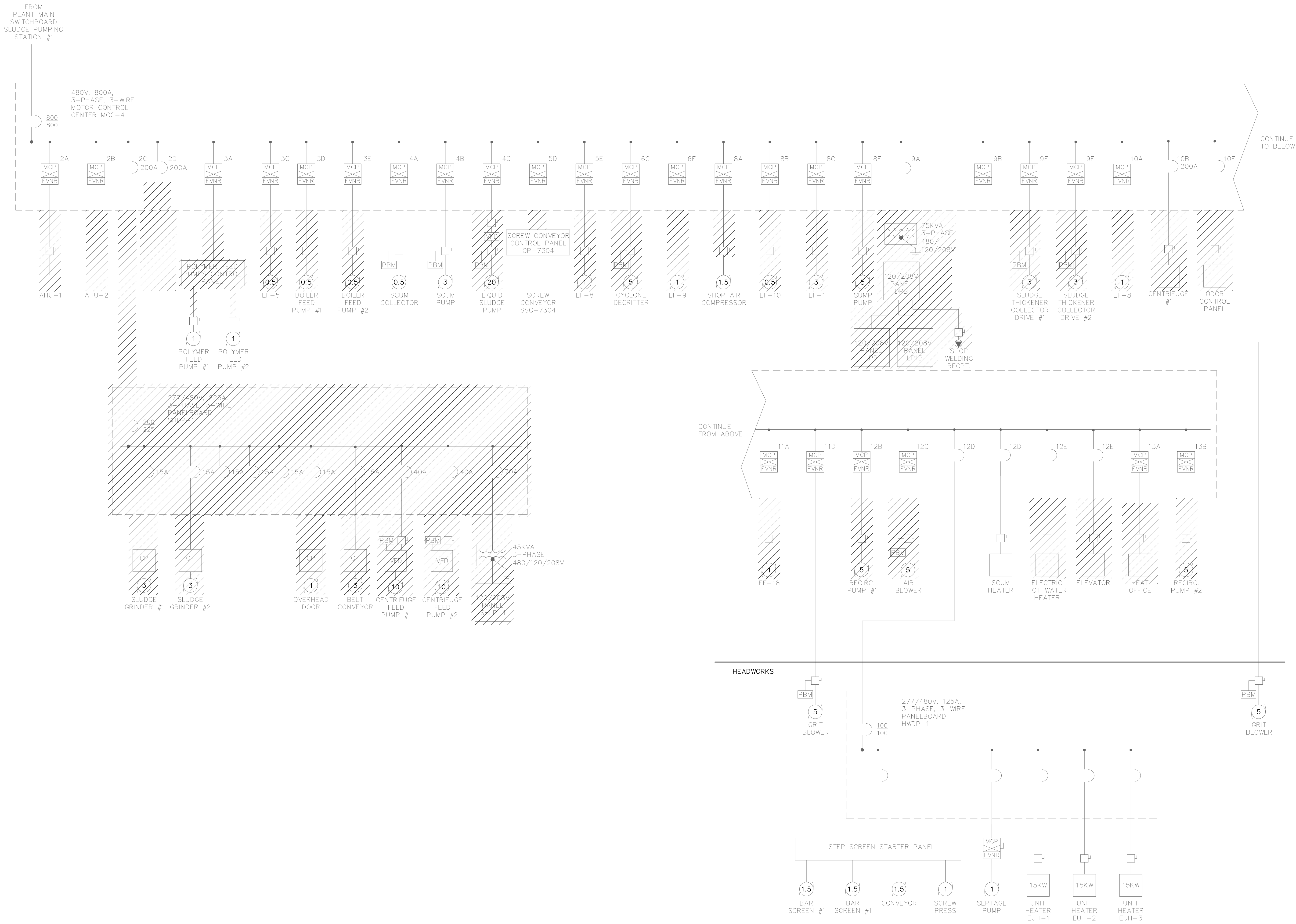


1/13/2021 12:51 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1A\18009.00 ELEC ONE LINE - PHASE 1A.DWG (BETA STB BW STB)



ONE LINE DIAGRAM - DEMOLITION
NOT TO SCALE

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328.9215
web: www.sar.com

PROJECT

**Taunton Wastewater
Treatment Facility
Improvements
Solids Handling**

Taunton, MA

TITLE

**ELECTRICAL
ONE LINE
DIAGRAM
DEMOLITION**

**AS RE-ISSUED PER
ADDENDUM #2**

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE:

BETA JOB NO.: 6050

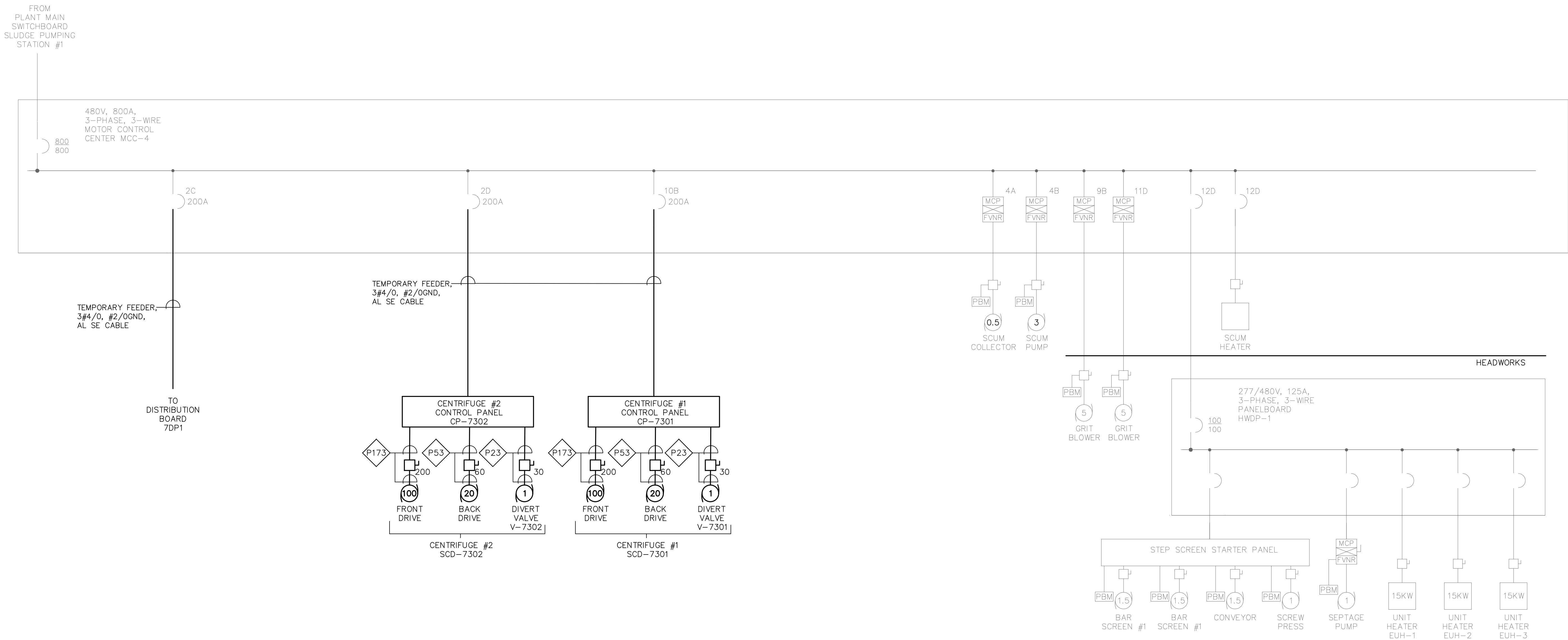
SCALE

NONE

SHEET NO.

E-0.2

1/13/2021 12:51 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADES\ELECTRICAL DEPARTMENT\PHASE 1\18009.00 ELEC ONE LINE - PHASE 1A.DWG (BETA STB BW STB)



EXISTING MCC-4 ONE LINE DIAGRAM - NEW WORK

NOT TO SCALE

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

**Taunton Wastewater
Treatment Facility
Improvements
Solids Handling**

Taunton, MA

TITLE

**ELECTRICAL
EXISTING MCC-4
ONE LINE
DIAGRAM
NEW WORK**
**AS RE-ISSUED PER
ADDENDUM #2**

NO.	REVISIONS	DATE

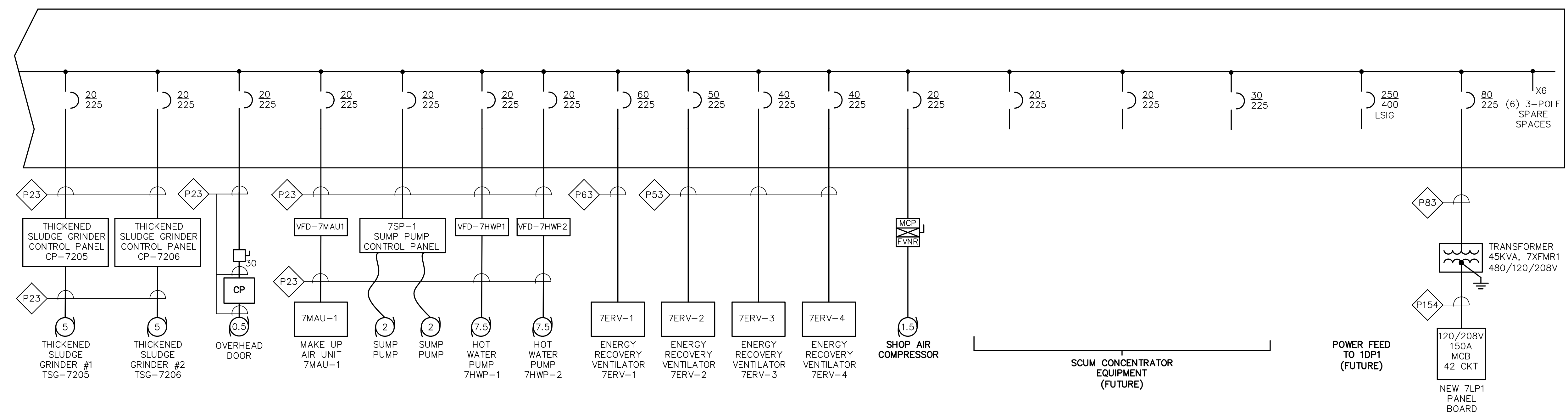
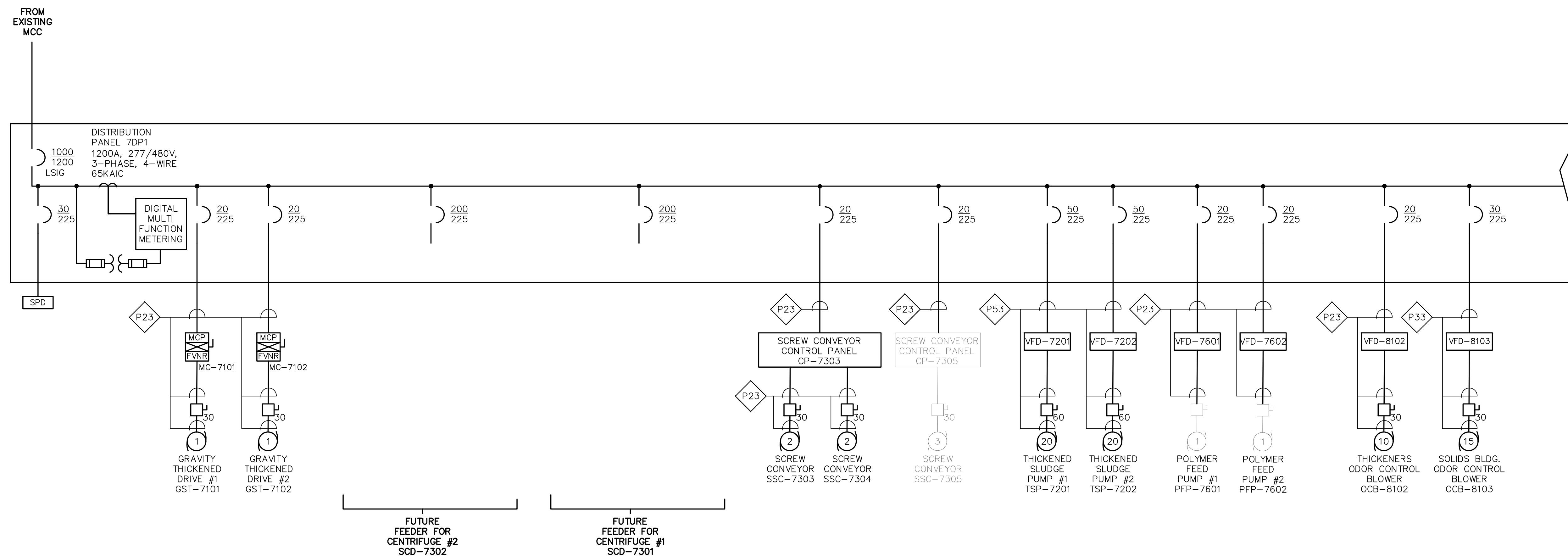
SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.




E-0.3



DISTRIBUTION PANEL 7DP1 ONE LINE DIAGRAM - NEW WORK

1/13/2021 12:52 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1\18009.00 ELEC DIAGRAMS AND DETAILS - 1AD.WG (BETA STB.BW.STB)

PANELBOARD SCHEDULE																								
NO. 7LP1										LOCATION: ELECTRIC ROOM														
120/208 V, 3 PH, 4 W, 200 A MAINS										200 A SOLID NEUTRAL					150 A MCB									
10,000 AIC AT 120 V										200 A GROUND BUS					- A MLO					SURFACE MOUNTING				
CIRCUIT	DESCRIPTION OF LOAD	LOAD (KVA)			BREAKER							BREAKER		LOAD (KVA)			DESCRIPTION OF LOAD	CIRCUIT						
		Aø	Bø	Cø	TRIP	POLE						POLE	TRIP	Aø	Bø	Cø								
1	FIRST FLOOR LIGHTING	0.79			20	1						1	20	0.50			SLUDGE FLOW METERS	2						
3	FIRST FLOOR LIGHTING		1.31		20	1						1	20		0.50		PLANT WATER FLOW METERS	4						
5	2ND FLOOR LIGHTING			1.58	20	1						1	20			1.07	FIRST FLOOR UNIT HEATERS	6						
7	EXTERIOR LIGHTING	0.30			20	1						1	20	1.25			SECOND FLOOR UNIT HEATERS	8						
9	1ST FLR RECEPTACLES		1.0		20	1						1	20		0.10		DOMESTIC WATER HEATER	10						
11	1ST FLR RECEPTACLES			1.00	20	1						1	20			0.20	DOMESTIC RECIRC PUMP	12						
13	1ST FLR RECEPTACLES	1.20			20	1						1	20	0.50			FIRE ALARM CONTROL PANEL 7FACP	14						
15	1ST FLR RECEPTACLES		1.20		20	1						1	20		0.50		POLYMER FLOW METERS	16						
17	1ST FLR RECEPTACLES			1.20	20	1						1	20			0.10	EYEWASH/SHOWER ALARM	18						
19	2ND FLR RECEPTACLES	1.00			20	1						1	20	0.50			FUTURE CIRCUIT FOR SCADA CONTROL PANEL RTU-7	20						
21	2ND FLR RECEPTACLES		1.20		20	1						1	20		1.20		SHED FEEDER	22						
23	2ND FLR RECEPTACLES			1.0	20	1						1	20			1.0	BOILER CONTROL PANEL	24						
25	THICKENED SLUDGE PUMP STATION LIGHTING	0.27			20	1						1	20	0.20			EXISTING POLYMER LEVEL CONTROL PANEL	26						
27	EXTERIOR RECEPTACLES		0.8		20	1						1	20		1.20		EXISTING POLYMER TRANSFER PUMP & SPEED CONTROLLER	28						
29	THICKENED SLUDGE PUMP STATION RECEPTACLES			0.8	20	1						1	20			1.2	THICKENED SLUDGE PUMP STATION SUMP PUMP	30						
31	SPARE	-			20	1						1	20	-			SPARE	32						
33	SPARE		-		20	1						1	20		-		SPARE	34						
35	SPARE			-	20	1						1	20			-	SPARE	36						
31	SPARE		-		20	1						1	20		-		SPARE	32						
33	SPARE		-		20	1						1	20		-		SPARE	34						
35	SPARE			-	20	1						1	20			-	SPARE	36						
31	SPARE		-		20	1						1	20		-		SPARE	32						
33	SPARE		-		20	1						1	20		-		SPARE	34						
35	SPARE			-	20	1						1	20			-	SPARE	36						
37	SPACE		-		-	-						-	-		-		SPACE	38						
39	SPACE		-		-	-						-	-		-		SPACE	40						
41	SPACE			-	-	-						-	-			-	SPACE	42						
43	SPACE		-		-	-						-	-		-		SPACE	44						
45	SPACE		-		-	-						-	-		-		SPACE	46						
47	SPACE			-	-	-						-	-			-	SPACE	48						
49	SPACE		-		-	-						-	-		-		SPACE	50						
51	SPACE		-		-	-						-	-		-		SPACE	52						
53	SPACE			-	-	-						-	-			-	SPACE	54						
55	SPACE		-		-	-						-	-	1.15				56						
57	BOILER		1.4		20	2						3	50		0.25		HEAD WORKS BLDG. LIGHTING PANEL 1LP1 (FUTURE)	58						
59				1.4												1.0		60						
SUB-TOTAL CONNECTED		3.56	6.91	6.98									4.1	3.75	4.57	SUB-TOTAL CONNECTED								
* PROVIDE GFCI BREAKER																								
										SUB-TOTAL CONNECTED					KVA Aø = 7.66									
										SUB-TOTAL CONNECTED					KVA Bø = 10.66									
										SUB-TOTAL CONNECTED					KVA Cø = 11.55									
										TOTAL CONNECTED					KVA = 29.87									

LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER & CATALOG SERIES	LAMPS		VOLTS	WATTS	MOUNTING		REMARKS	
			TYPE	LUMENS			TYPE	HEIGHT		
F1	96" LED ENCLOSED AND GASKETED INDUSTRIAL LIGHTING FIXTURE.	LITHONIA FEM-L96-9000LM-IMAFL-MVOLT-35K-80CRI	LED 3500K	8124lm	120	54	PENDANT	13'-5" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED		
F2	48" LED ENCLOSED AND GASKETED INDUSTRIAL LIGHTING FIXTURE.	LITHONIA FEM-L48-4000LM-IMAFL-MVOLT-35K-80CRI	LED 3500K	3615lm	120	24	PENDANT	13'-5" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED		
F3	48" LED ENCLOSED AND GASKETED INDUSTRIAL LIGHTING FIXTURE.	LITHONIA FEM-L48-4000LM-IMAFL-MVOLT-35K-80CRI	LED 3500K	3615lm	120	24	SURFACE			
F4	CLASS I DIV.1 EXPLOSION PROOF LED GLOBE LIGHT FIXTURE WITH 30 DEGREE REFLECTOR	HUBBEL HLEML-45-30-D4-AN-ERA30	LED 5000K	2880lm	120	45	RAIL MOUNTED			
W1	EXTERIOR BUILDING MOUNTED LED WALL PACK LIGHT FIXTURE	LITHONIA TWP-LED-200-700-50K-T3M-120-PE-DDXB	LED 5000K	4233lm	120	45	WALL	13'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED	FIXTURE CIRCUIT TO BE CONNECTED TO AND CONTROLLED BY A TIME CLOCK SWITCH	
W2	EXTERIOR BUILDING MOUNTED LED MINI WALL PACK LIGHT FIXTURE	LITHONIA TWS-LED-P1-50K	LED 5000K	1476lm	120	25	WALL	9'-5" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED	FIXTURE CIRCUIT TO BE CONNECTED TO AND CONTROLLED BY A TIME CLOCK SWITCH	
	SELF CONTAINED EMERGENCY LIGHTING BATTERY UNIT NEMA 4 WITH TWO LIGHTING HEADS	REFER TO SPECIFICATIONS	LED	—	120	8W	WALL		INSTALL 3/4"C, 2#12, 1#12GND TO REMOTE HEADS	
	SEALED-BEAM WEATHERPROOF REMOTE LIGHTING FIXTURE WITH TWO LIGHTING HEADS	REFER TO SPECIFICATIONS	LED	—	120	8W	WALL			
	EMERGENCY EXIT SIGN LED TYPE WITH BATTERY BACK-UP NEMA 4X	REFER TO SPECIFICATIONS	LED	—	120	3W	WALL			

LIGHTING FIXTURE SCHEDULES NOTES:

1. THE CATALOG NUMBERS LISTED ARE GIVEN AS A GUIDE TO THE DESIGN AND QUALITY OF FIXTURE DESIRED. . EQUIVALENT DESIGNS, MATERIALS, DIMENSIONS, COEFFICIENT OF UTILIZATIONS AND EQUAL QUALITY FIXTURES OF OTHER MANUFACTURERS WILL BE ACCEPTABLE.

POWER CABLE/CONDUIT SCHEDULE			
SYMBOL	CONDUIT SIZE*	CONDUCTORS*	GND*
P22	3/4"	(2)#12	(1)#12
P23	3/4"	(3)#12	(1)#12
P32	3/4"	(2)#10	(1)#10
P33	3/4"	(3)#10	(1)#10
P53	3/4"	(3)#8	(1)#10
P54	3/4"	(4)#8	(1)#10
P63	1"	(3)#6	(1)#8
P64	1"	(4)#6	(1)#8
P83	1 1/4"	(3)#4	(1)#8
P84	1 1/4"	(4)#4	(1)#8
P103	1 1/2"	(3)#3	(1)#6
P104	1 1/2"	(4)#3	(1)#6
P113	1 1/2"	(3)#2	(1)#6
P114	1 1/2"	(4)#2	(1)#6
P133	2"	(3)#1	(1)#6
P134	2"	(4)#1	(1)#6
P153	2"	(3)#1/0	(1)#6
P154	2"	(4)#1/0	(1)#6
P173	2 1/2"	(3)#2/0	(1)#6
P174	2 1/2"	(4)#2/0	(1)#6
P203	2 1/2"	(3)#3/0	(1)#4
P204	2 1/2"	(4)#3/0	(1)#4
P233	3"	(3)#4/0	(1)#4
P234	3"	(4)#4/0	(1)#4
P404	4"	(4)500KCMIL	(1)#2/0

SIGNAL CABLE/CONDUIT SCHEDULE		
SYMBOL	CONDUIT SIZE	CONDUCTORS
S	1"	VENDER SPECIFIED
S1	3/4"	1-2/C#16 TSP
S13	3/4"	1-3/C#16 TSP
S2	3/4"	2-2/C#16 TSP
S23	3/4"	2-3/C#16 TSP
S3	1"	3-2/C#16 TSP
S33	1"	3-3/C#16 TSP
S4	1"	4-2/C#16 TSP
S43	1"	4-3/C#16 TSP
S5	1"	5-2/C#16 TSP
S6	1 1/2"	6-2/C#16 TSP
S7	1 1/2"	7-2/C#16 TSP
S8	1 1/2"	8-2/C#16 TSP
S9	1 1/2"	9-2/C#16 TSP
S10	2"	10-2/C#16 TSP
S12	2"	12-2/C#16 TSP

TELE/DATA CABLE/CONDUIT SCHEDULE		
SYMBOL	CONDUIT SIZE	CONDUCTORS
TD1	1"	1-CAT6 CABLE
TD2	1"	2-CAT6 CABLE

CONTROL CABLE/CONDUIT SCHEDULE		
SYMBOL	CONDUIT SIZE	CONDUCTORS
C2	3/4"	2#14
C4	3/4"	4#14
C5	3/4"	5#14
C6	3/4"	6#14
C7	3/4"	7#14
C8	3/4"	8#14
C9	3/4"	9#14
C10	3/4"	10#14
C12	3/4"	12#14
C16	1"	16#14
C20	1"	20#14
C30	1"	30#14

NOTE: CONDUIT AND CONDUCTOR SIZES ARE TO BE PER THE ABOVE SCHEDULES UNLESS OTHERWISE NOTED.

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328.9215
web: www.sar.com

PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Solids Handling

Taunton, MA

TITLE

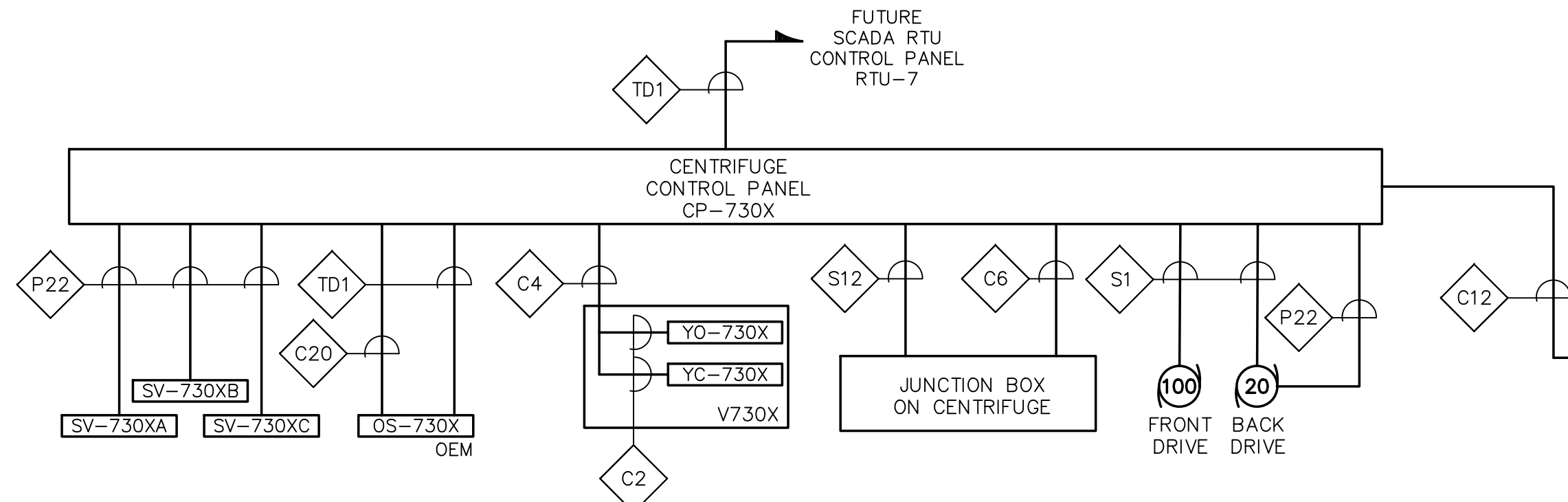
ELECTRICAL
SCHEDULES

AS RE-ISSUED PER
ADDENDUM #2

NO. REVISIONS DATE

DRAWN BY: RB

1/13/2021 12:52 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1A\18009.00 ELEC DIAGRAMS AND DETAILS - 1A.DWG (BETA STB.BW.STB)

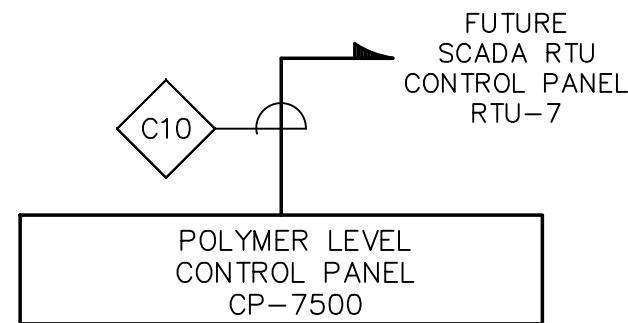


CONTROL BLOCK WIRING DIAGRAM
SOLIDS CENTRIFUGE DECANERS SCD-7301 & 7302

NOT TO SCALE

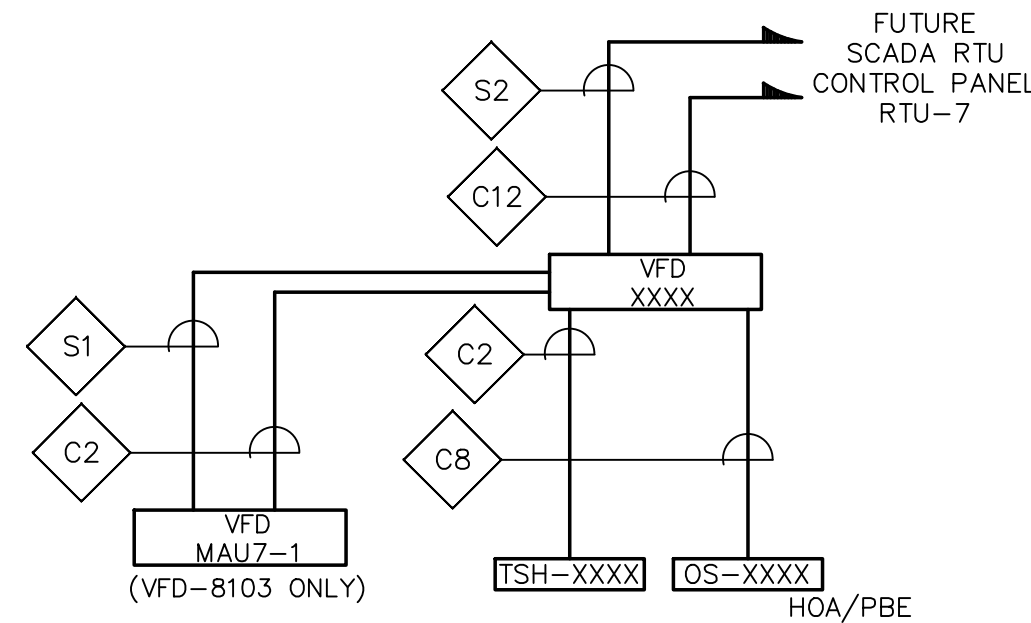
TYPICAL FOR:

- SCD-7301
- SCD-7302



CONTROL BLOCK WIRING DIAGRAM
POLYMER LEVEL CONTROL SYSTEM

NOT TO SCALE

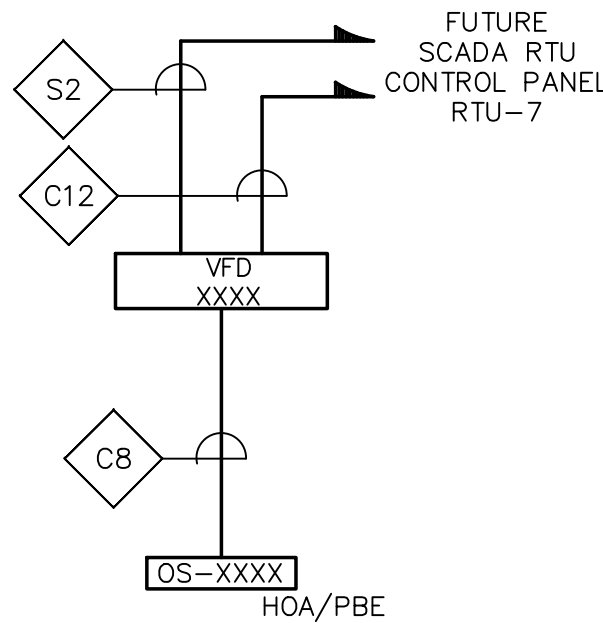


CONTROL BLOCK WIRING DIAGRAM
ODOR CONTROL BLOWERS

NOT TO SCALE

TYPICAL FOR:

- VFD-8102/OS-8102/TSH-8102
- VFD-8103/OS-8103/TSH-8103

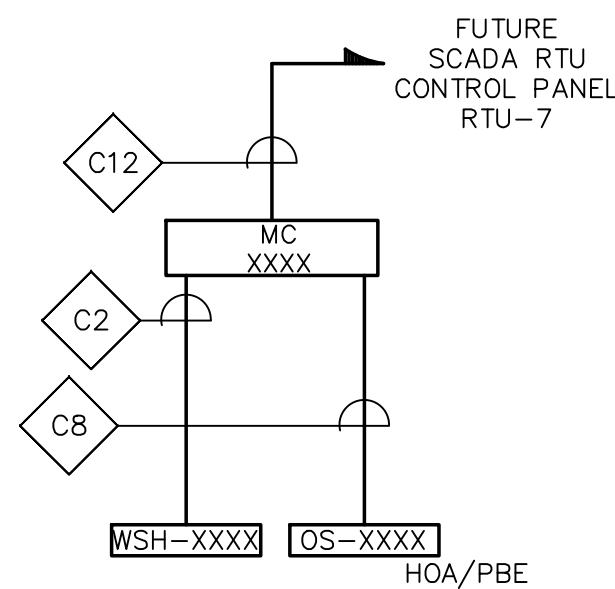


CONTROL BLOCK WIRING DIAGRAM
POLYMER FEED PUMPS

NOT TO SCALE

TYPICAL FOR:

- VFD-7601/OS-7601
- VFD-7602/OS-7602

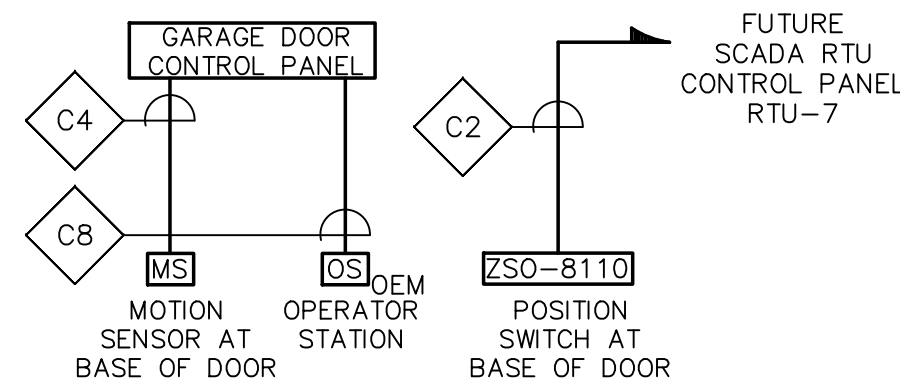


CONTROL BLOCK WIRING DIAGRAM
GRAVITY THICKENER DRIVES

NOT TO SCALE

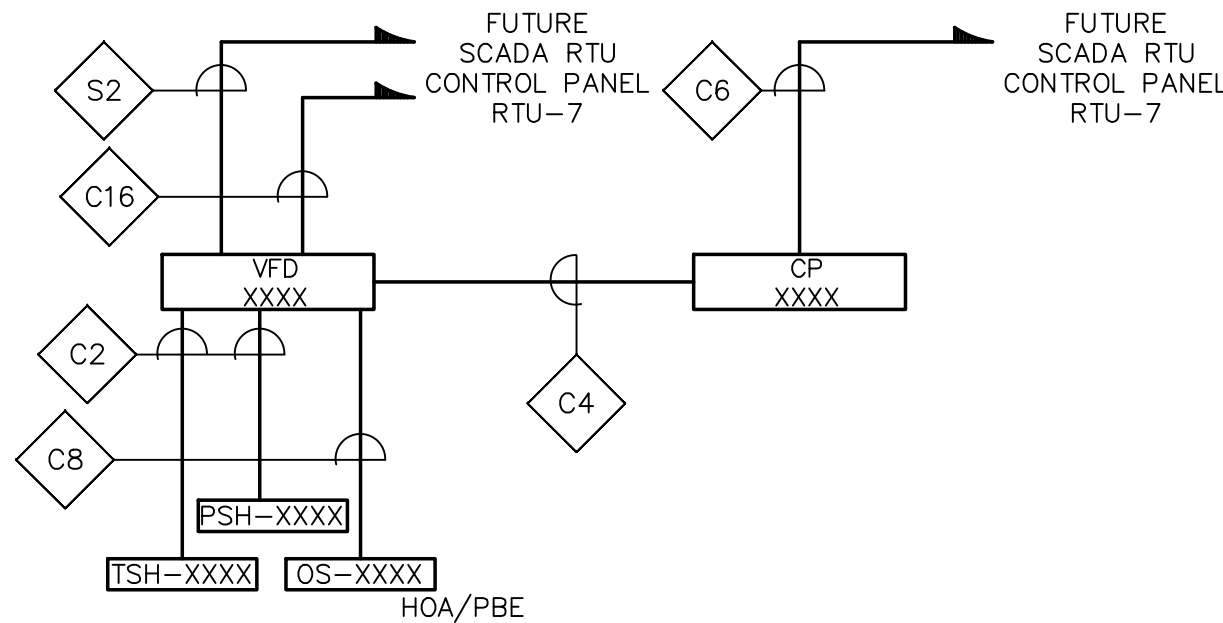
TYPICAL FOR:

- MC-7101/OS-7101/WSH-7101
- MC-7102/OS-7102/WSH-7102



CONTROL BLOCK WIRING DIAGRAM
OVERHEAD GARAGE DOOR

NOT TO SCALE

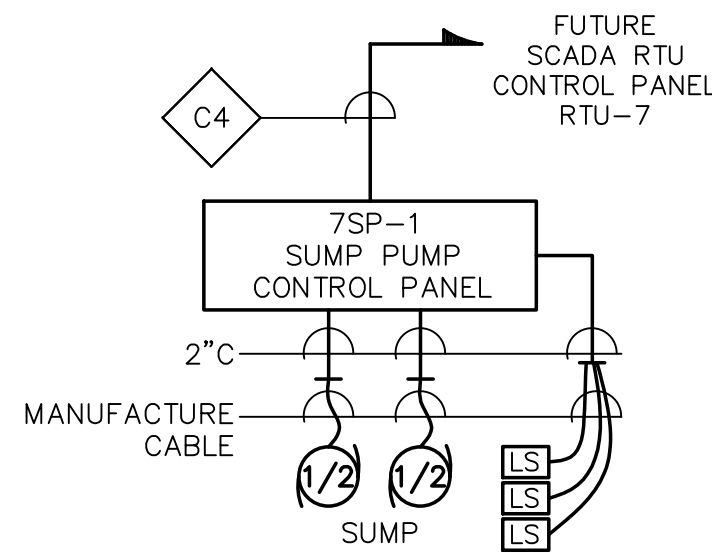


CONTROL BLOCK WIRING DIAGRAM
THICKENED SLUDGE PUMPS & GRINDERS

NOT TO SCALE

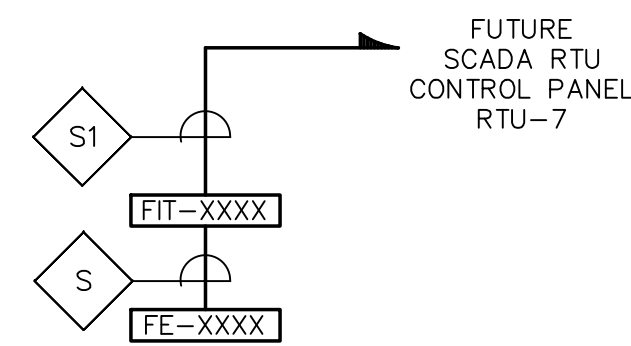
TYPICAL FOR:

- VFD-7201/CP-7205/OS-7201/PSH-7201/TSH-7201
- VFD-7202/CP-7206/OS-7202/PSH-7202/TSH-7202



SUMP PUMP BLOCK WIRING DIAGRAM

NOT TO SCALE

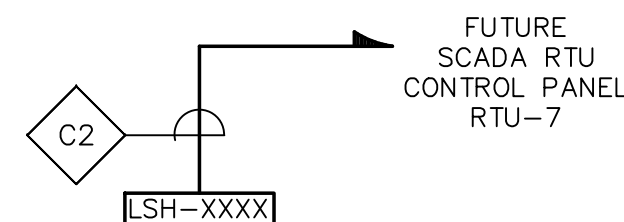


CONTROL BLOCK WIRING DIAGRAM
FLOW METERS

NOT TO SCALE

TYPICAL FOR:

- FE-7203/FIT-7203
- FE-7204/FIT-7204
- FE-7603/FIT-7603
- FE-7604/FIT-7604
- FE-9115/FIT-9115
- FE-9116/FIT-9116



CONTROL BLOCK WIRING DIAGRAM
LEVEL SWITCHES

NOT TO SCALE

TYPICAL FOR:

- LSH-7605
- LSH-9356

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328.9215
web: www.sar.com

PROJECT

**Taunton Wastewater
Treatment Facility
Improvements
Solids Handling**

Taunton, MA

TITLE

**ELECTRICAL
WIRING
DIAGRAMS**

**AS RE-ISSUED PER
ADDENDUM #2**

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

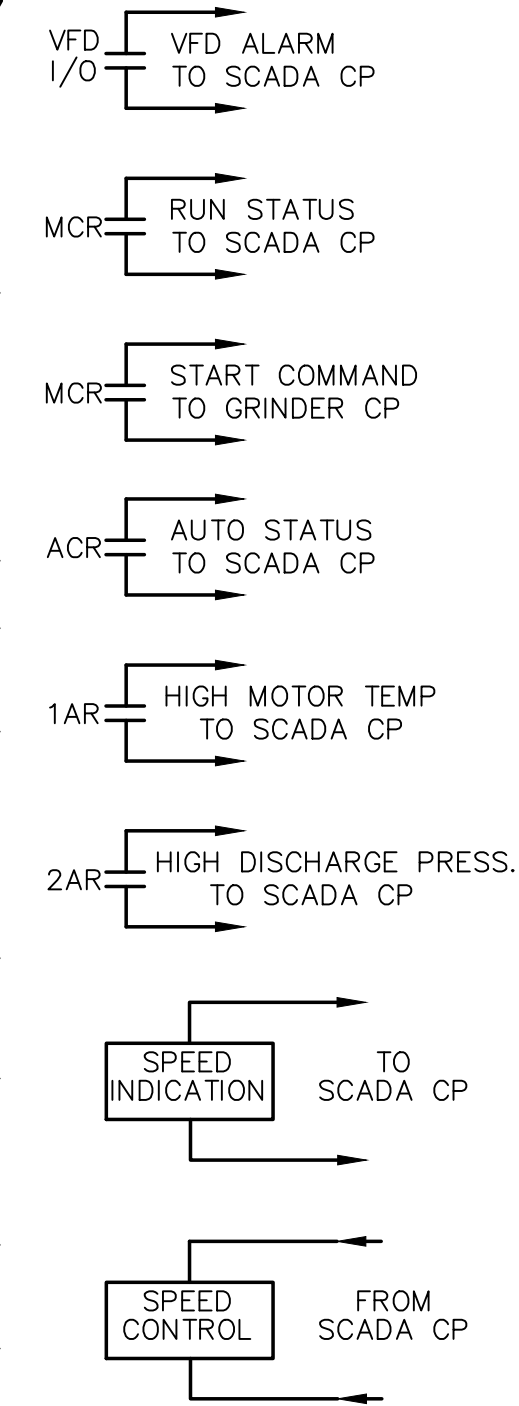
ISSUE DATE: 10/16/2020

BETA JOB NO.: 6050

SCALE

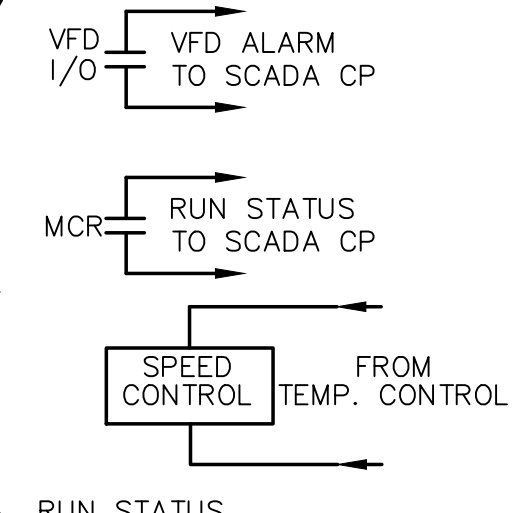
SHEET NO.

E-0.6

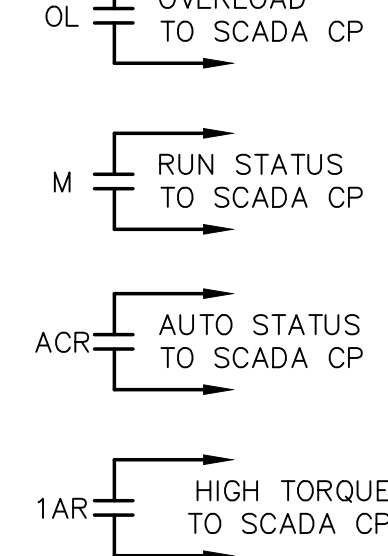


RUN STATUS

POWER ON DELAY

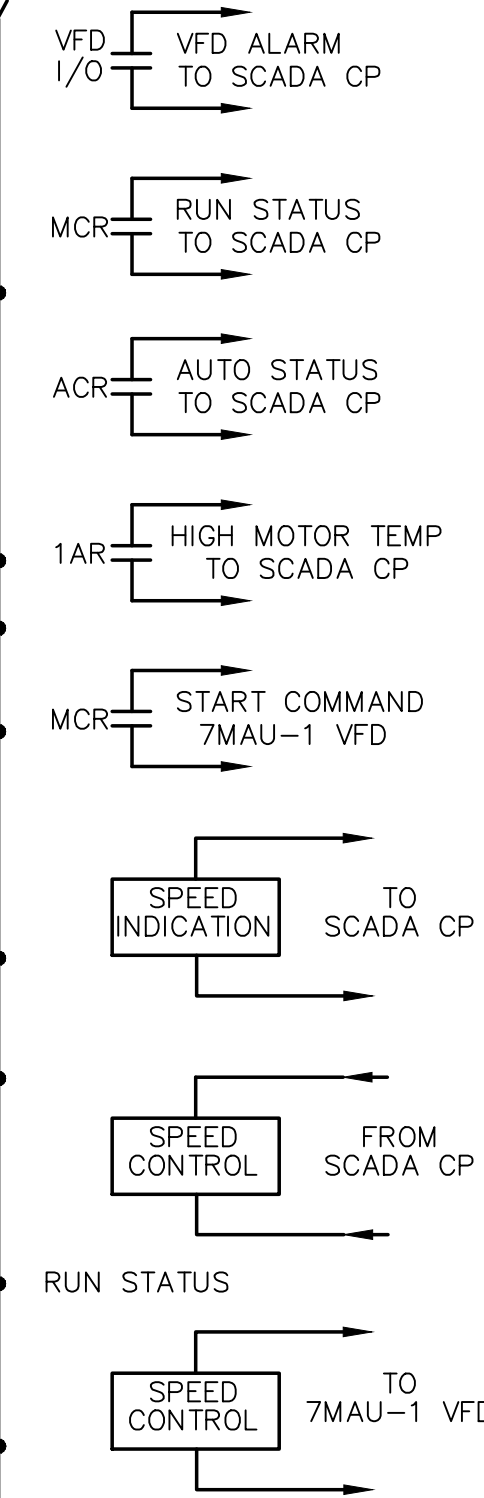


RUN STATUS



RUN STATUS

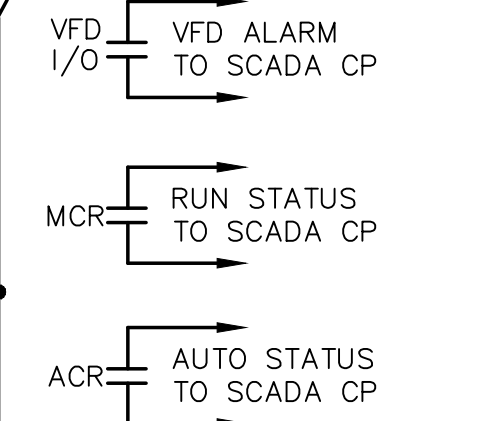
POWER ON DELAY







TO 7MAU-1 VFD

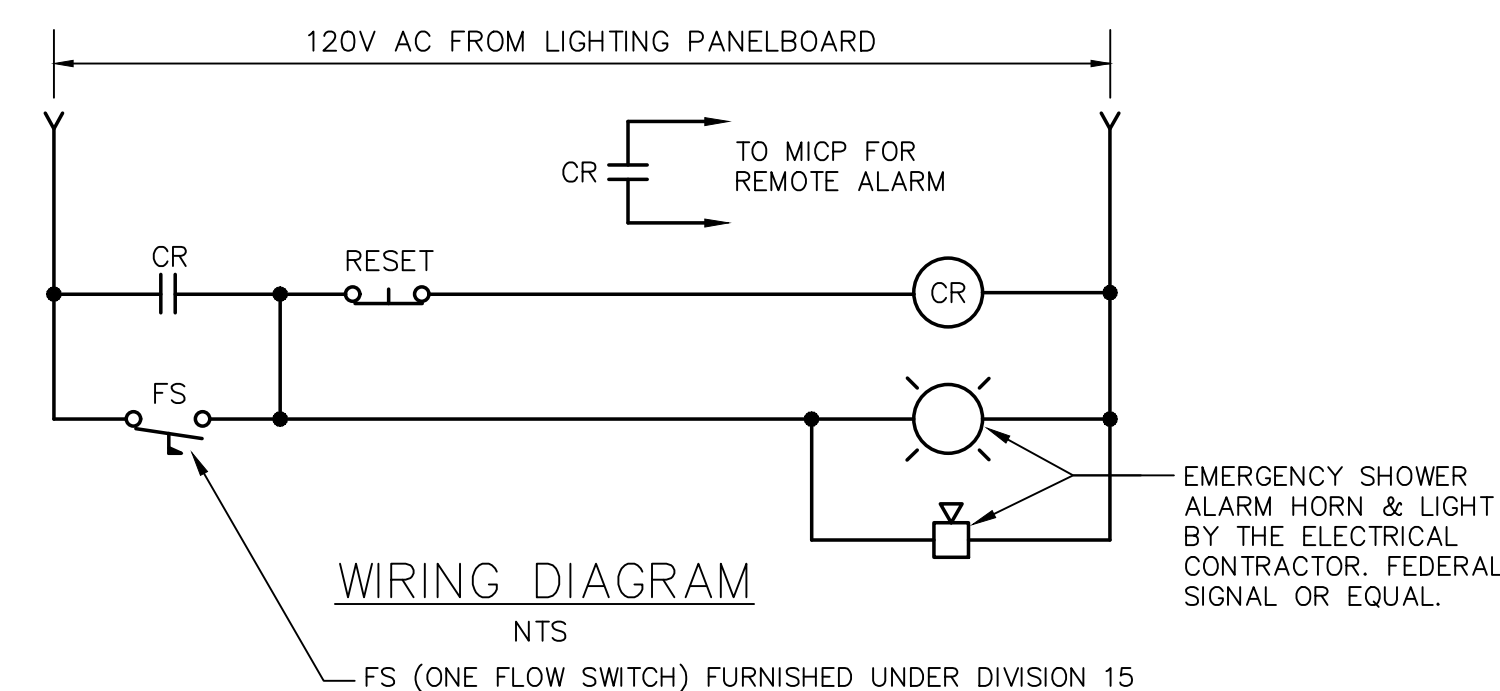
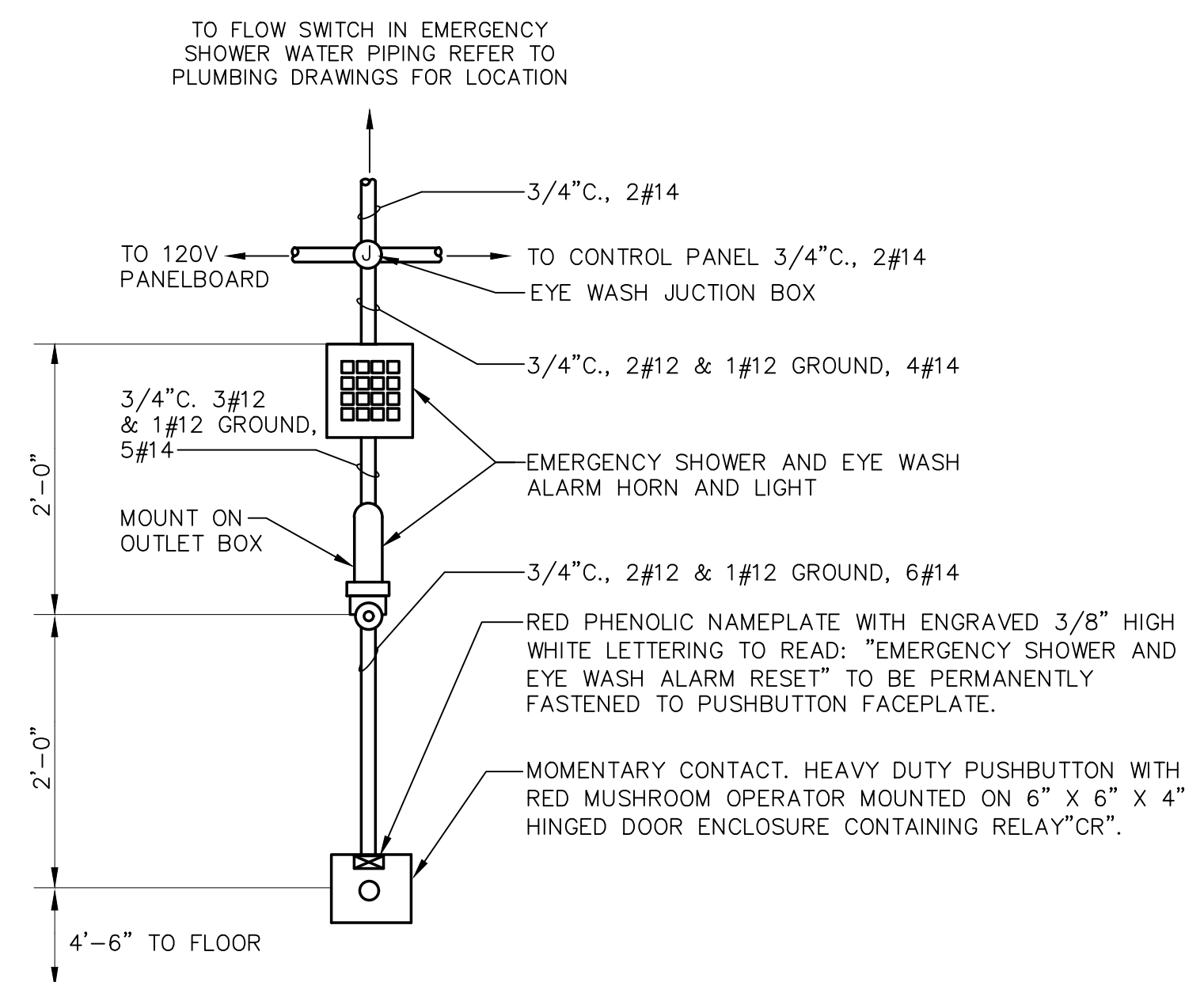
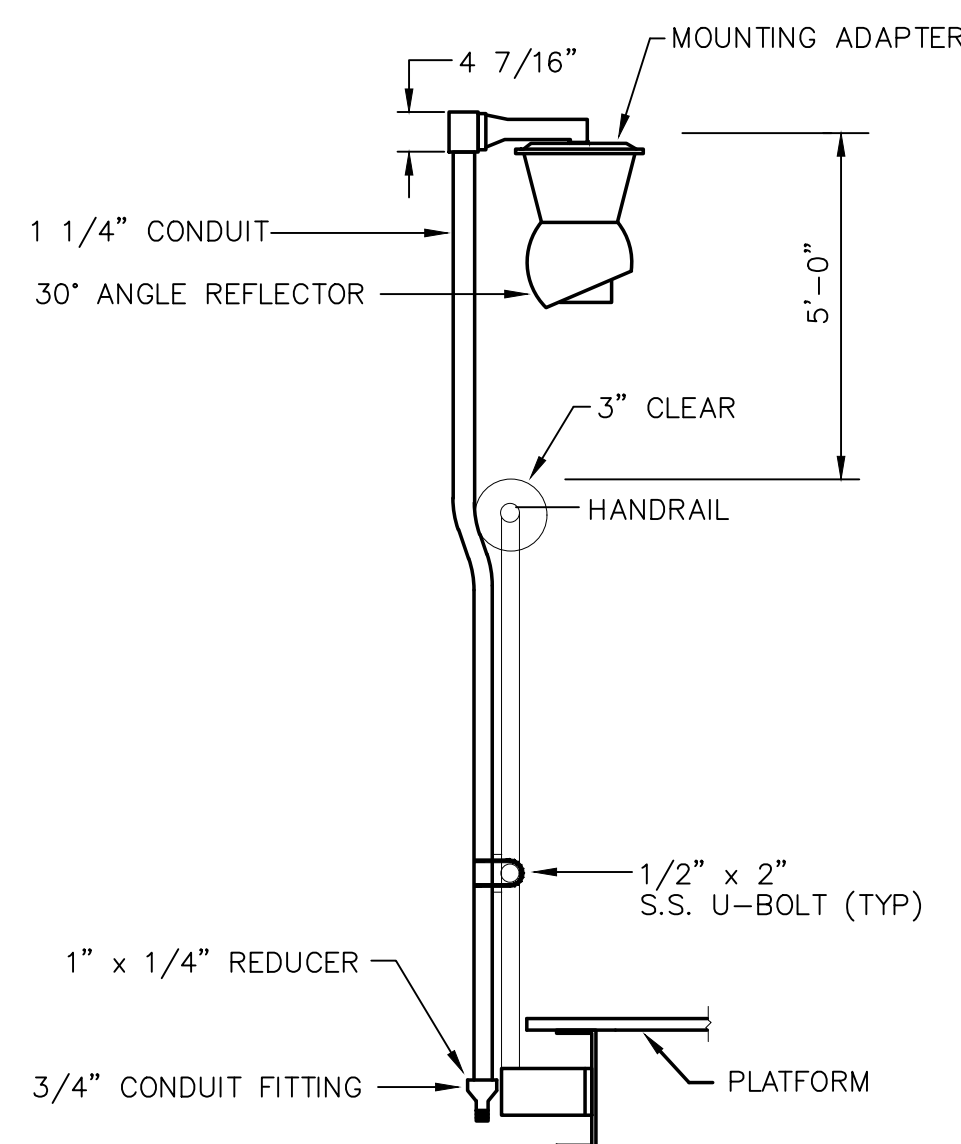
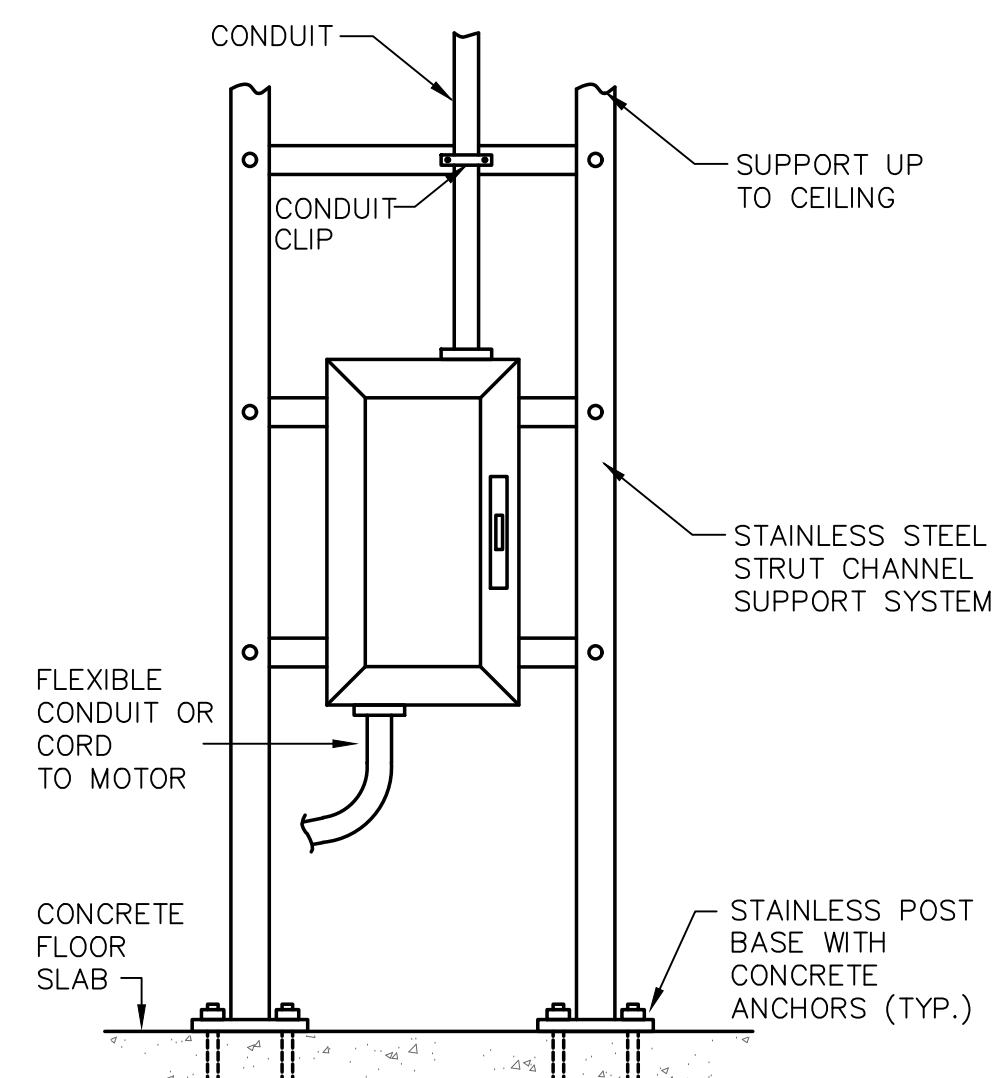
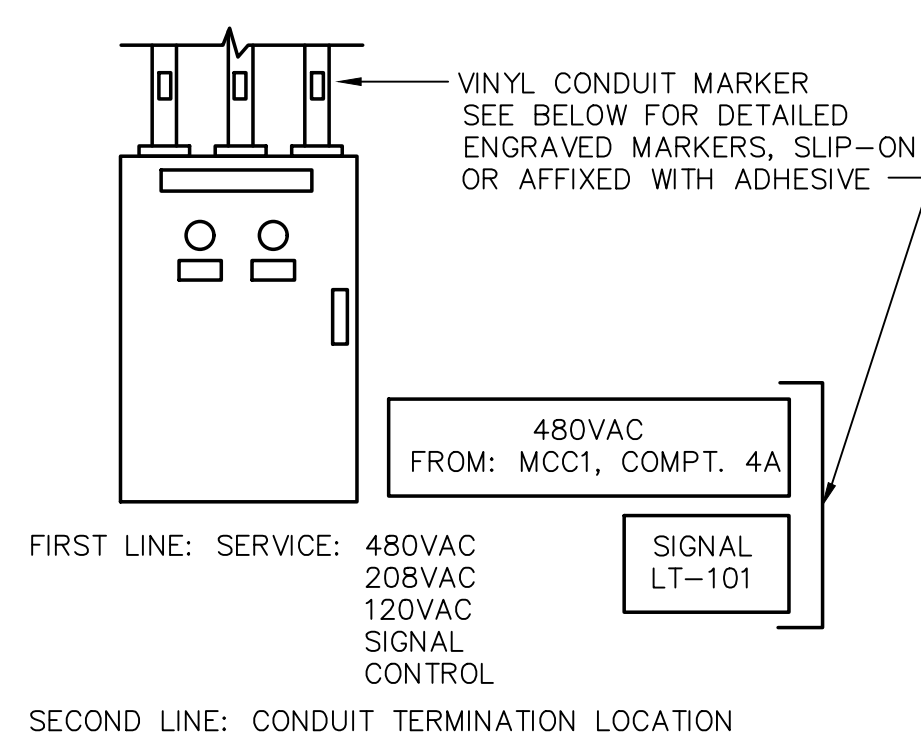
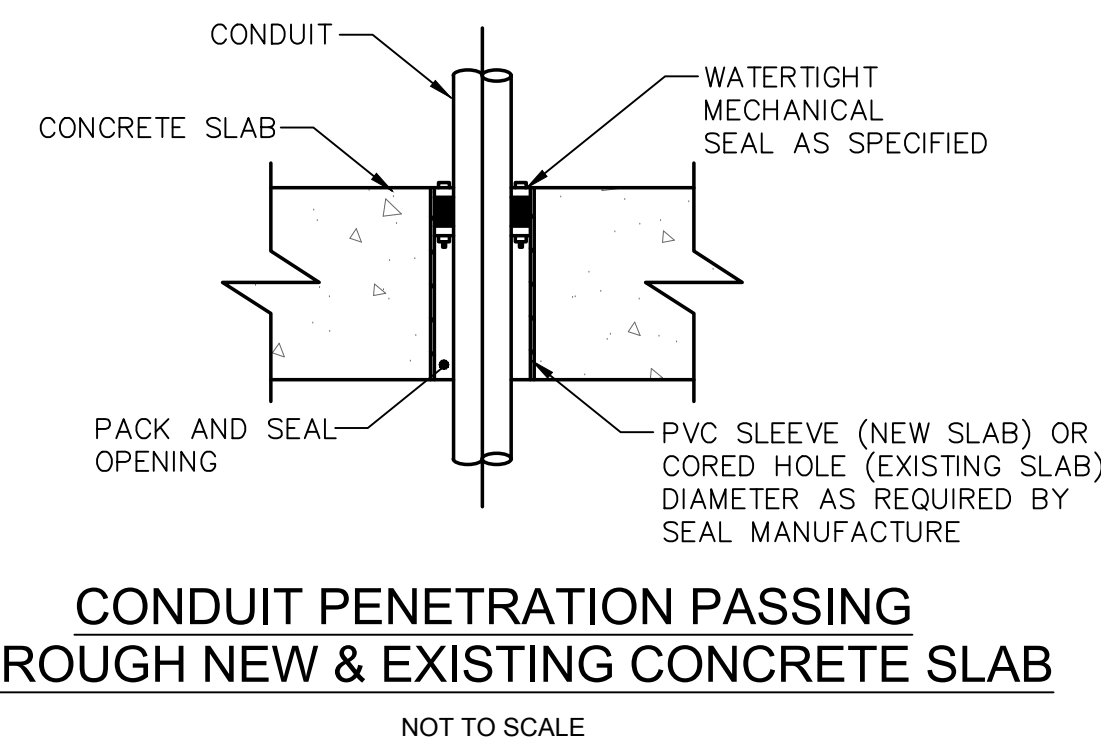
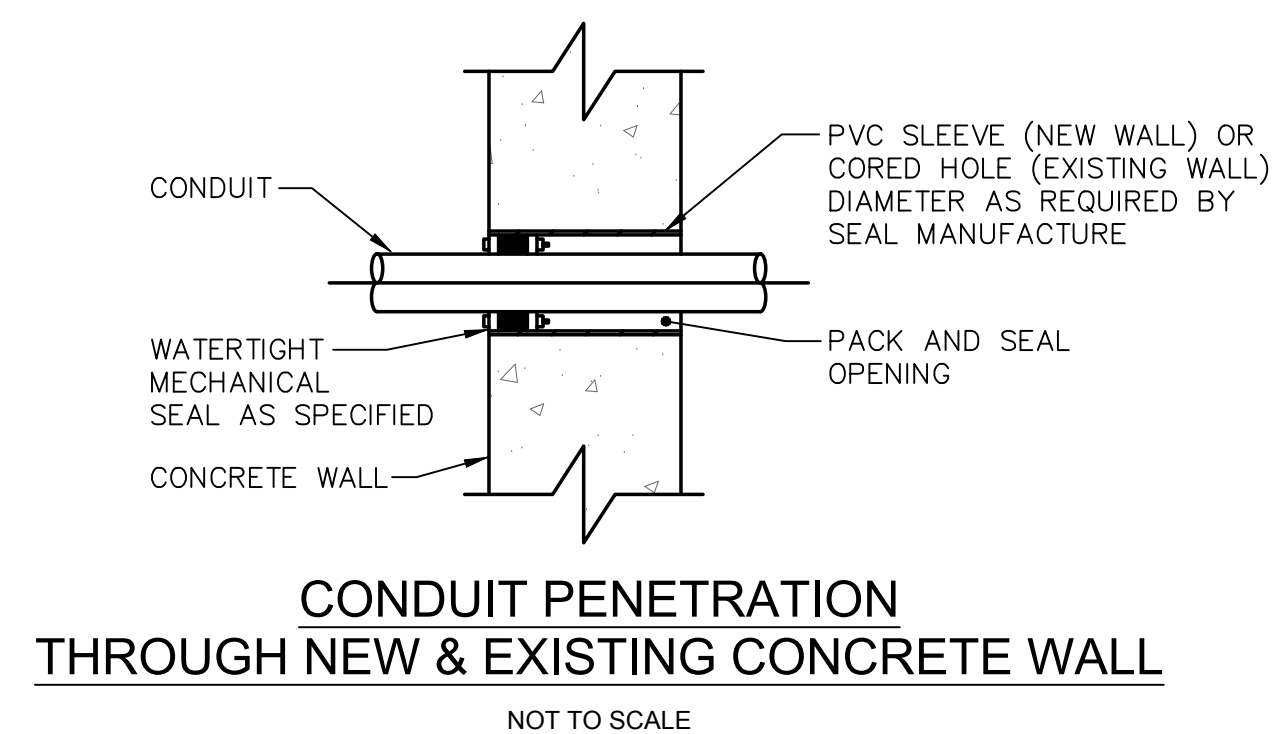
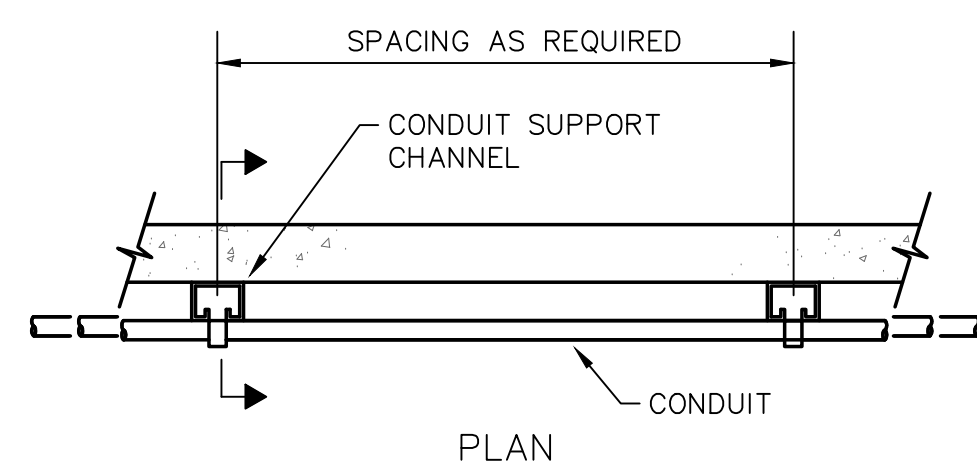
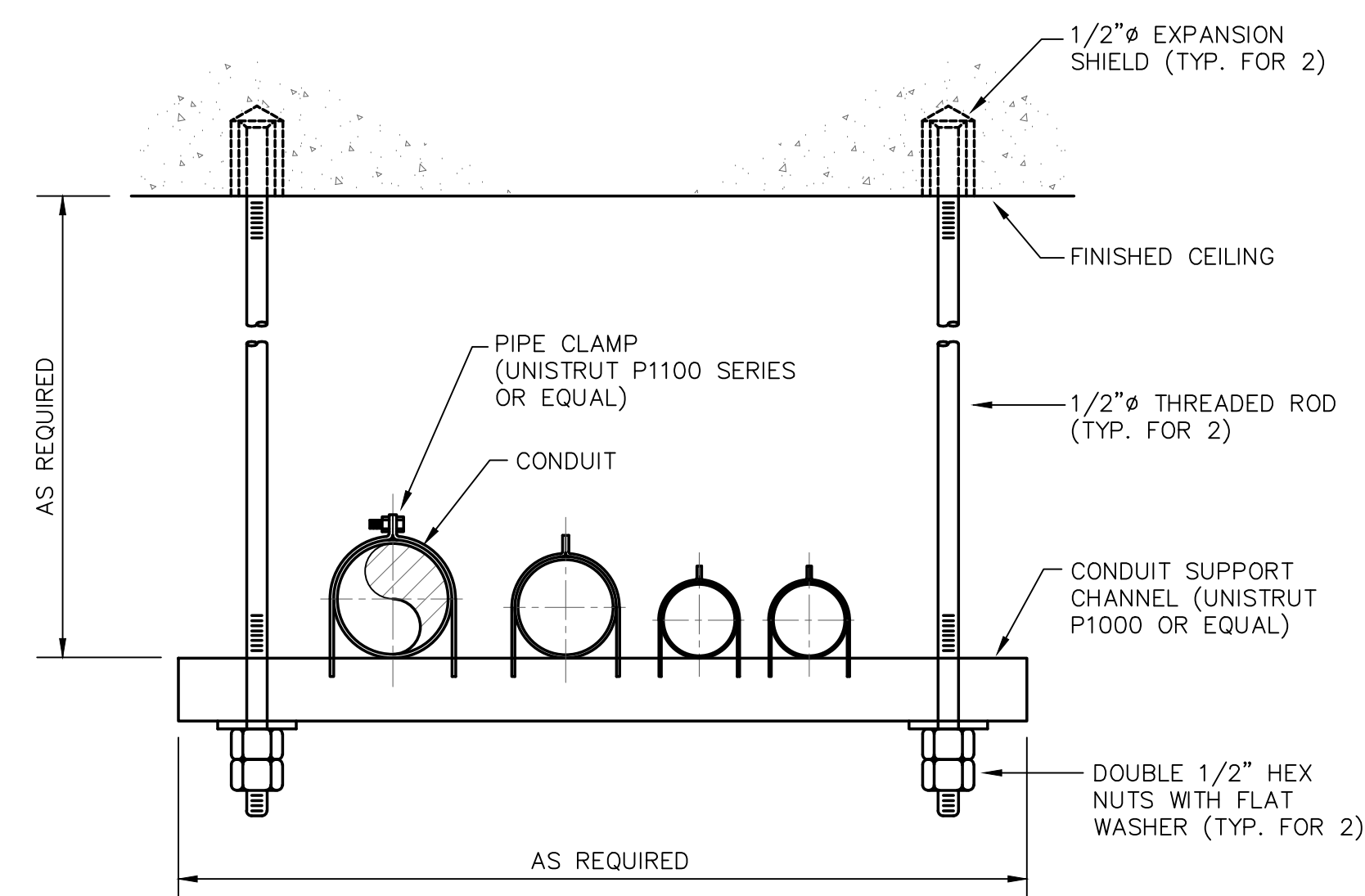
SPEED CONTROL

POWER ON DELAY



• RUN STATUS

PREPARED BY		
<div>BETA</div> <div>www.BETA-Inc.com</div>		
REGISTERED PROFESSIONAL		
<div></div>		
SUBCONSULTANT		
<div>SAR ENGINEERING, INC.</div> <div>Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 328-9215 web: www.sar.com</div>		
PROJECT		
<div>Taunton Wastewater Treatment Facility Improvements Solids Handling</div> <div>Taunton, MA</div>		
TITLE		
<div>ELECTRICAL MOTOR CONTROL WIRING DIAGRAMS</div> <div>AS RE-ISSUED PER ADDENDUM #2</div>		
NO.	REVISIONS	DATE
DRAWN BY: RB		
DESIGNED BY: MC		
CHECKED BY: MC		
ISSUE DATE: 10/16/2020		
BETA JOB NO.: 6050		
SCALE		
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION		
SHEET NO.		
E-0.8		



NOTE:

1. ALL EXPOSED SURFACES OF COMPONENTS SHALL HAVE A YELLOW ENAMEL FINISH, INCLUDING CONDUIT (WITHIN 10'-0" RADIUS OF THE STATION, BOXES, ENCLOSURE AND HORN GRILLE).
2. ALARM STATION TO BE MOUNTED OUTSIDE OF EACH CHEMICAL ROOM CONTAINING A EMERGENCY SHOWER. REFER TO PLAN DRAWINGS FOR EYEWASH JUNCTION BOX LOCATIONS.

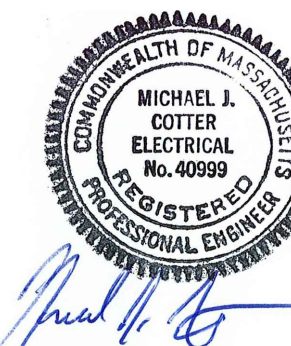
GENERAL NOTES:

1. ALL MOUNTING BRACKETS, SUPPORTS, FASTENERS, AND ECT. WITHIN THE WET WELL SHALL BE STAINLESS STEEL.

PREPARED BY	
-------------	--



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineer
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617 328-9215
web: www.sar.com

PROJECT

Taunton Wastewater Treatment Facility Improvements Solids Handling

Taunton, MA

TITLE

ELECTRICAL DETAILS

AS RE-ISSUED PER
ADDENDUM #2

[illegible]

DRAWN BY:

DESIGNED BY

CHECKED BY _____

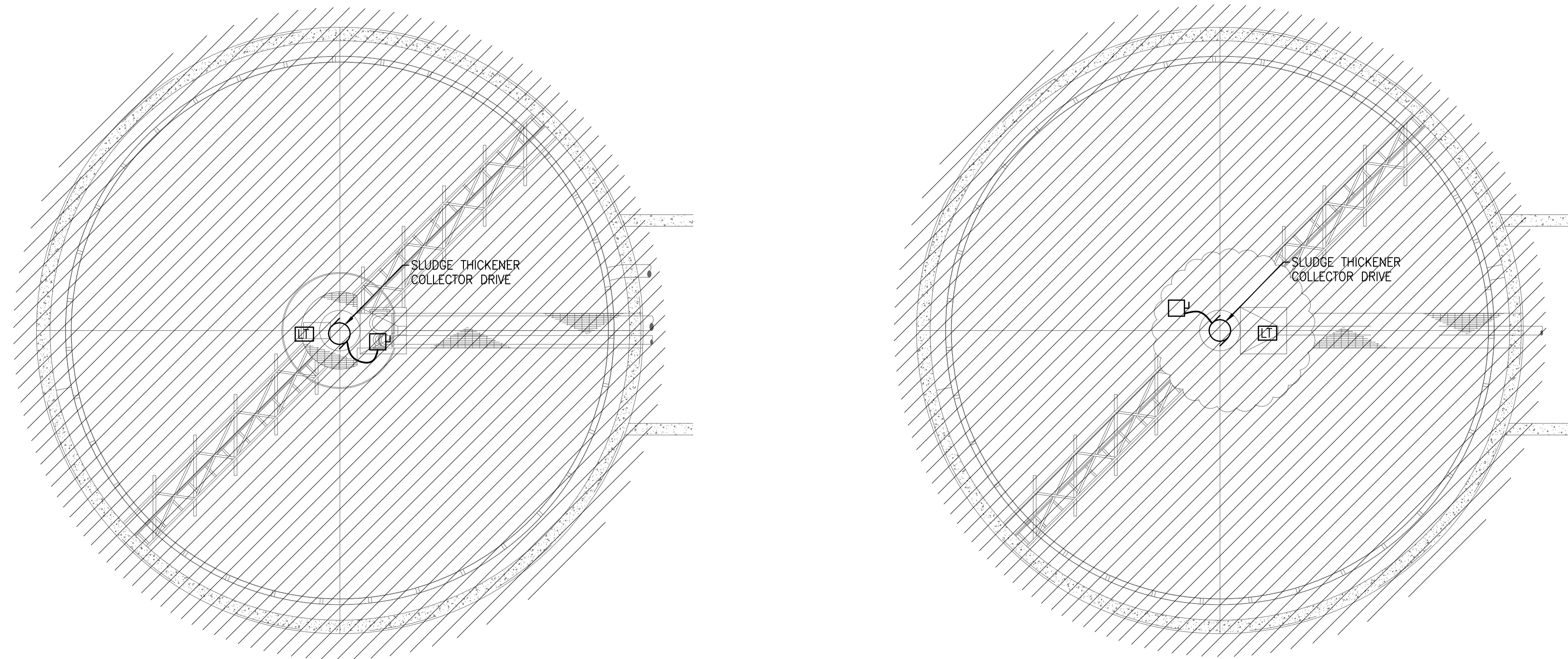
ISSUE DATE: 10/16/2020

BETA JOB NO.: 6050

SCALE

SHEET NO

E-0.9

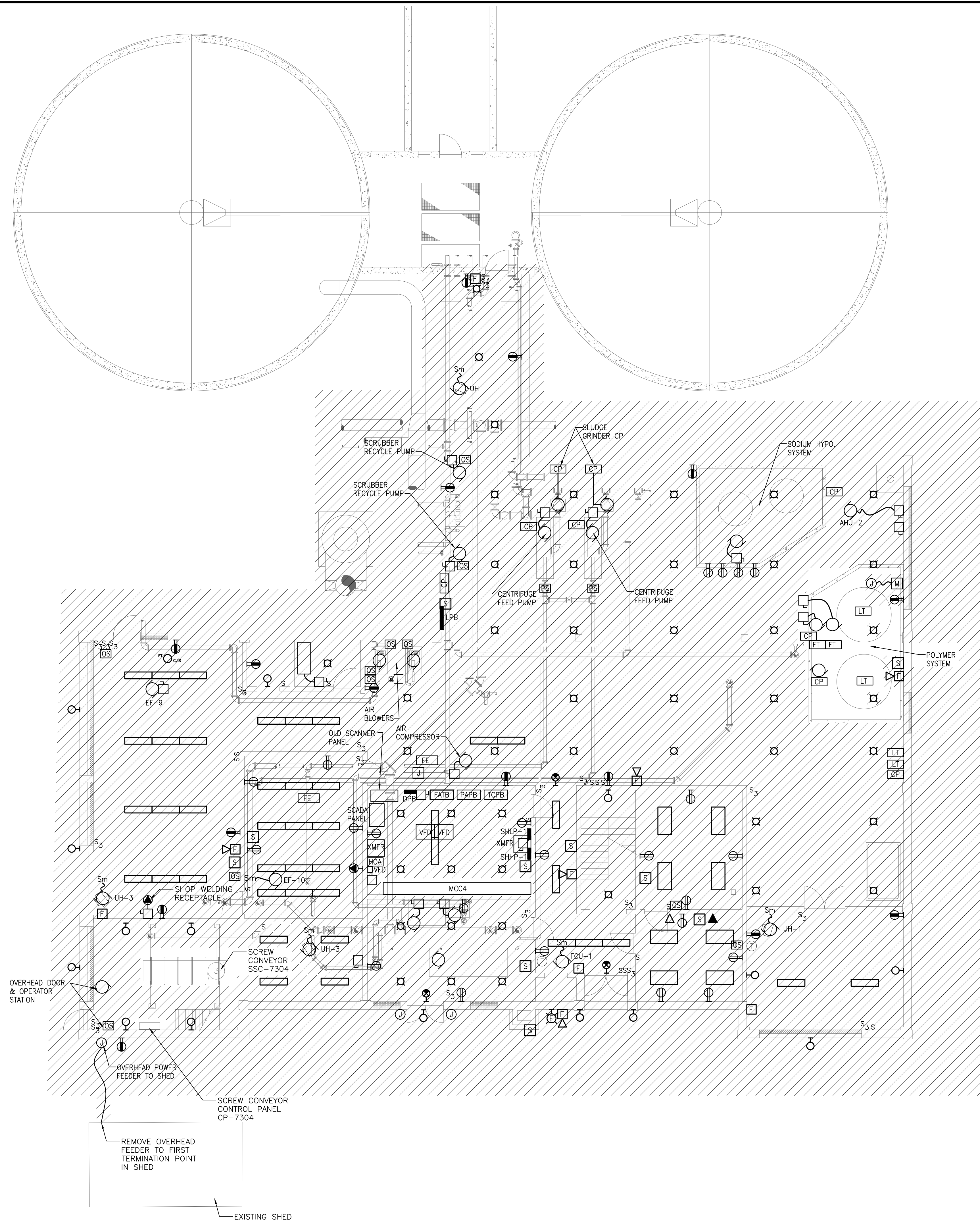


The diagram illustrates a wastewater treatment plant layout. It features two large circular tanks, each divided into four quadrants by a vertical line. A central rectangular structure connects the two tanks, containing a complex network of pipes, valves, and pumps. A label 'LIQUID SLUDGE PUMP' points to a specific pump in the central structure. Another label 'SM' is located near the bottom right of the central structure. The tanks are shaded with a stippled pattern, and the central structure is shaded with diagonal lines.

1/13/2021 12:53 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1A\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

E-7.1

1/13/2021 12:53 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1A\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

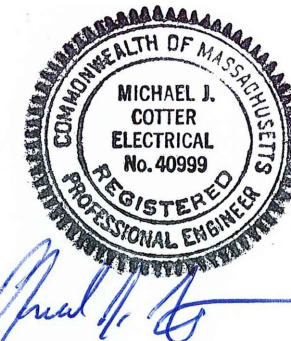


FIRST FLOOR - PLAN
SCALE: 1/8"= 1'-0"

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Solids Handling

Taunton, MA

TITLE

Electrical
Demolition
Solids Handling
Building
First Floor Plan

AS RE-ISSUED PER
ADDENDUM #2

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY:	RLB
-----------	-----

DESIGNED BY:	MC
--------------	----

CHECKED BY:	MC
-------------	----

ISSUE DATE:	10/16/2020
-------------	------------

BETA JOB NO.:	6050
---------------	------

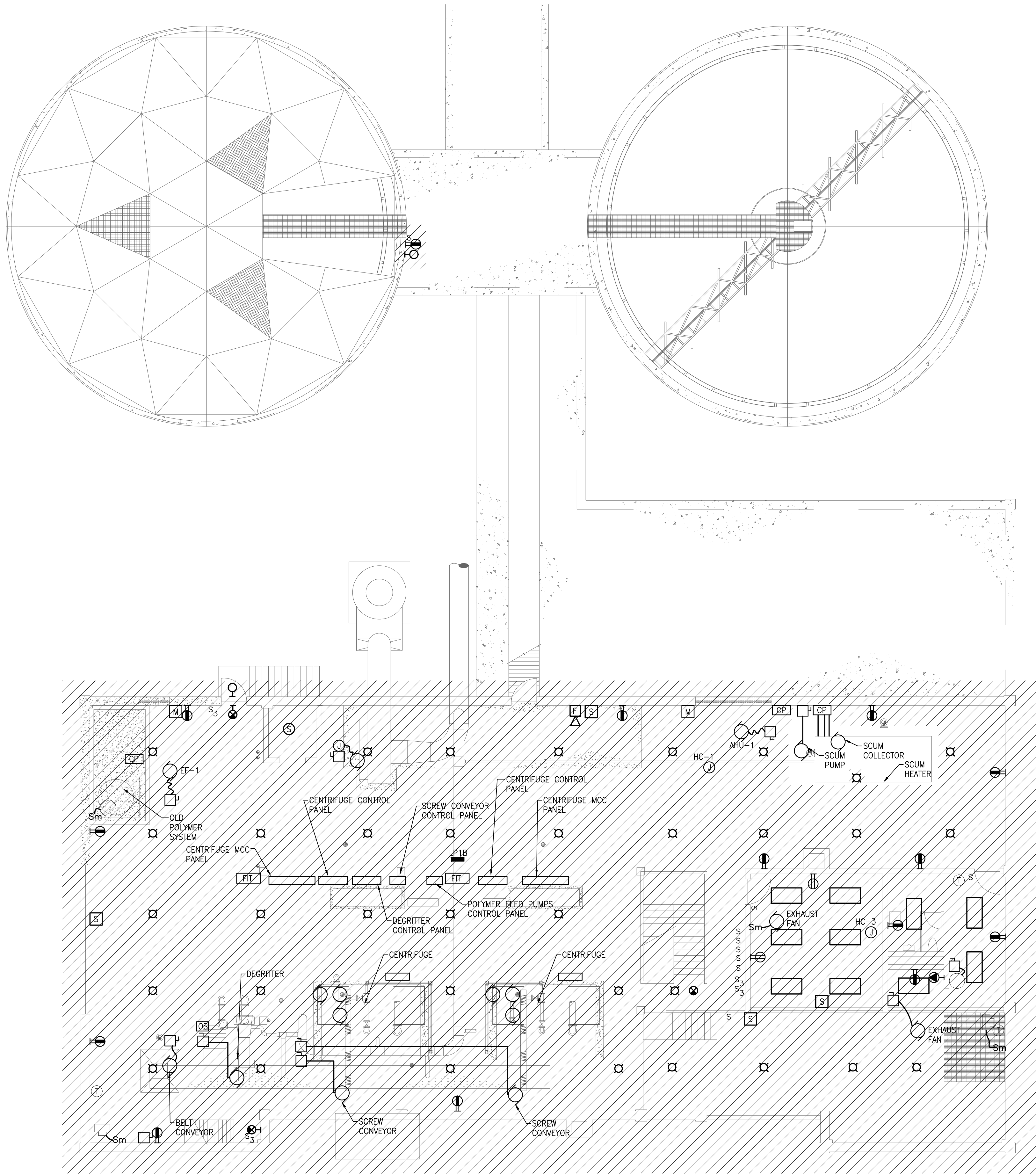
SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

E-7.2



SECOND FLOOR - PLAN
SCALE: 1/8"= 1'-0"

1/13/2021 12:53 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

PREPARED BY



REGISTERED PROFESSIONAL



Michael J. Gutter

SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

**Taunton Wastewater
Treatment Facility
Improvements
Solids Handling**

Taunton, MA

TITLE

**Electrical
Demolition
Solids Handling
Building
Second Floor
Plan**

**AS RE-ISSUED PER
ADDENDUM #2**

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	10/16/2020
BETA JOB NO.:	6050

SCALE

AS SHOWN


UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

E-7.3



BETA
www.BETA-Inc.com



SAR
ENGINEERING, INC.

Taunton Wastewater Treatment Facility Improvements Solids Handling

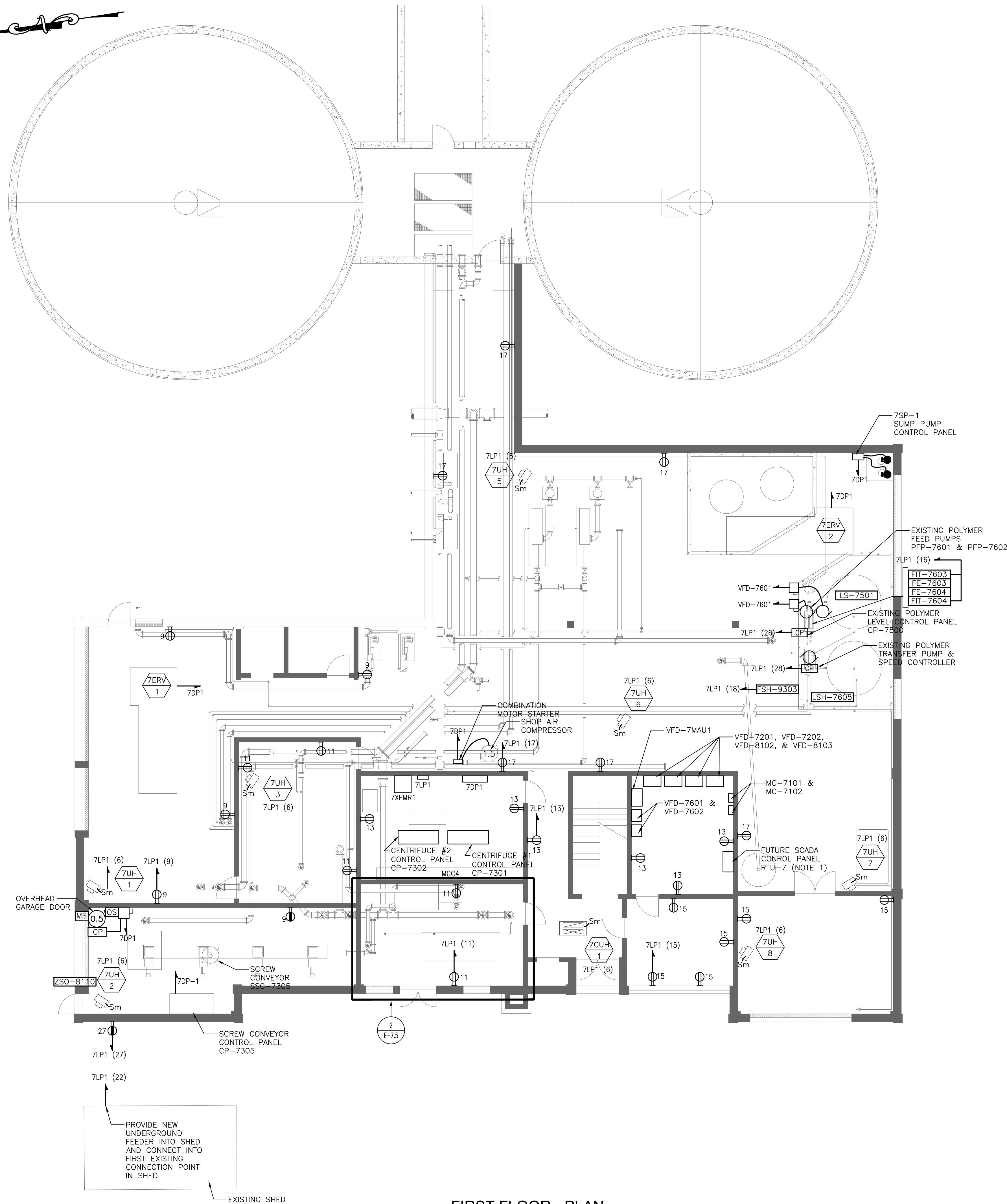
Electrical
Gravity Thickening
Tanks
New Work Power
Plans

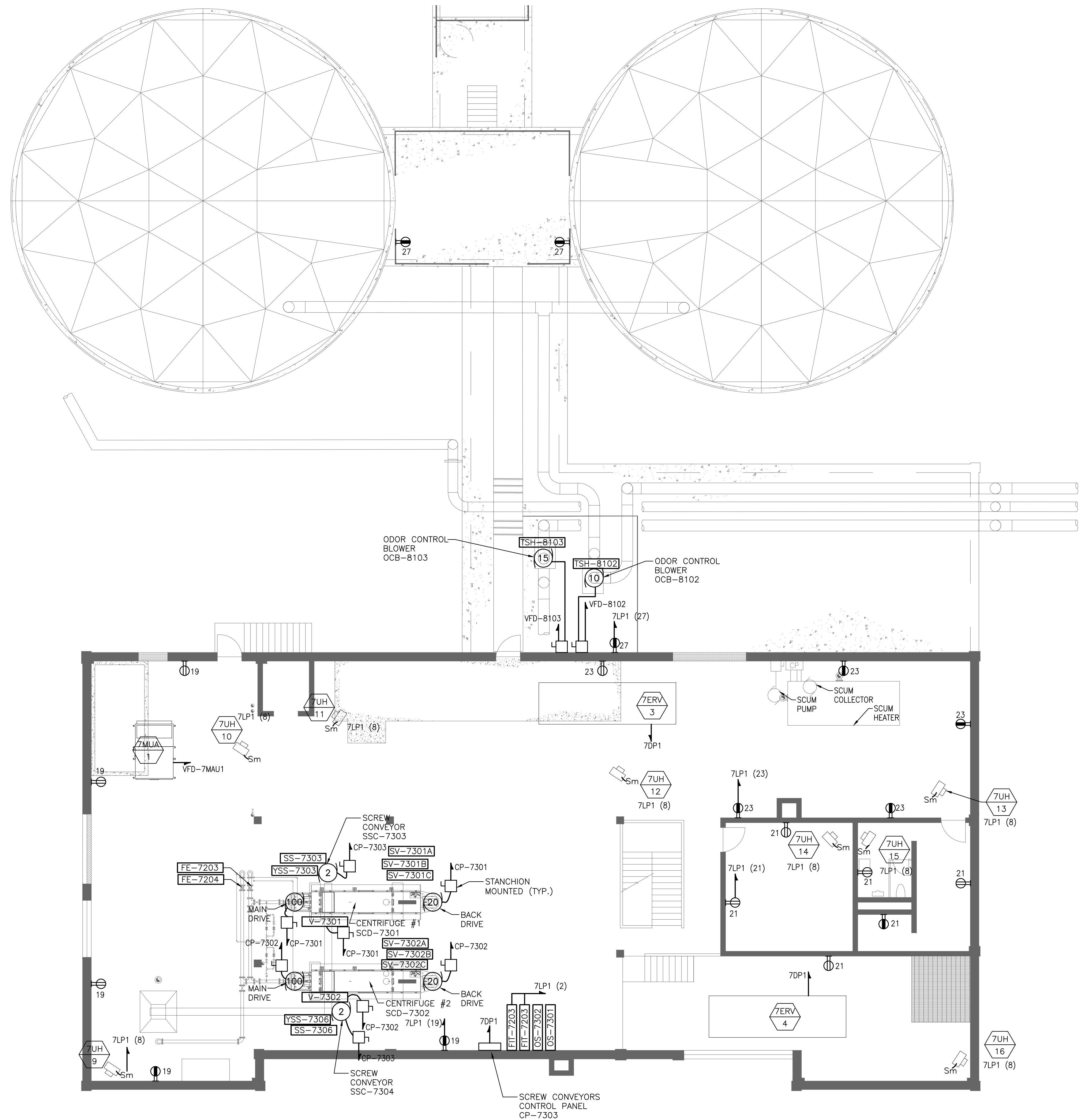
[illegible]

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	10/16/2020
BETA JOB NO.:	6050

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

E-7.4





SECOND FLOOR - PLAN

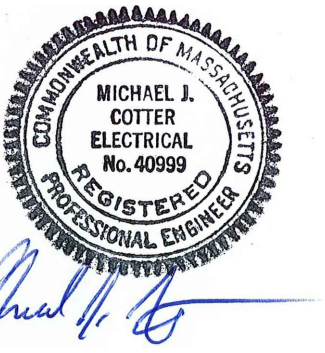
SCALE: 1/8"= 1'-0"

1/13/2021 12:55 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1A\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

PREPARED BY 4



REGISTERED PROFESSIONAL _____



SUBCONSULTANT 1



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617 328-9215
web: www.sar.com

PROJECT 1

Taunton Wastewater Treatment Facility Improvements Solids Handling

Taunton, MA

TITLE

Electrical
Solids Handling
Building
Second Floor
New Work
Power Plan

AS RE-ISSUED PER
ADDENDUM #2

[illegible]

NO.	REVISIONS	DATE
DRAWN BY:	RLB	
DESIGNED BY:	MC	
CHECKED BY:	MC	
ISSUE DATE:	10/16/2020	
BETA JOB NO.:	6050	

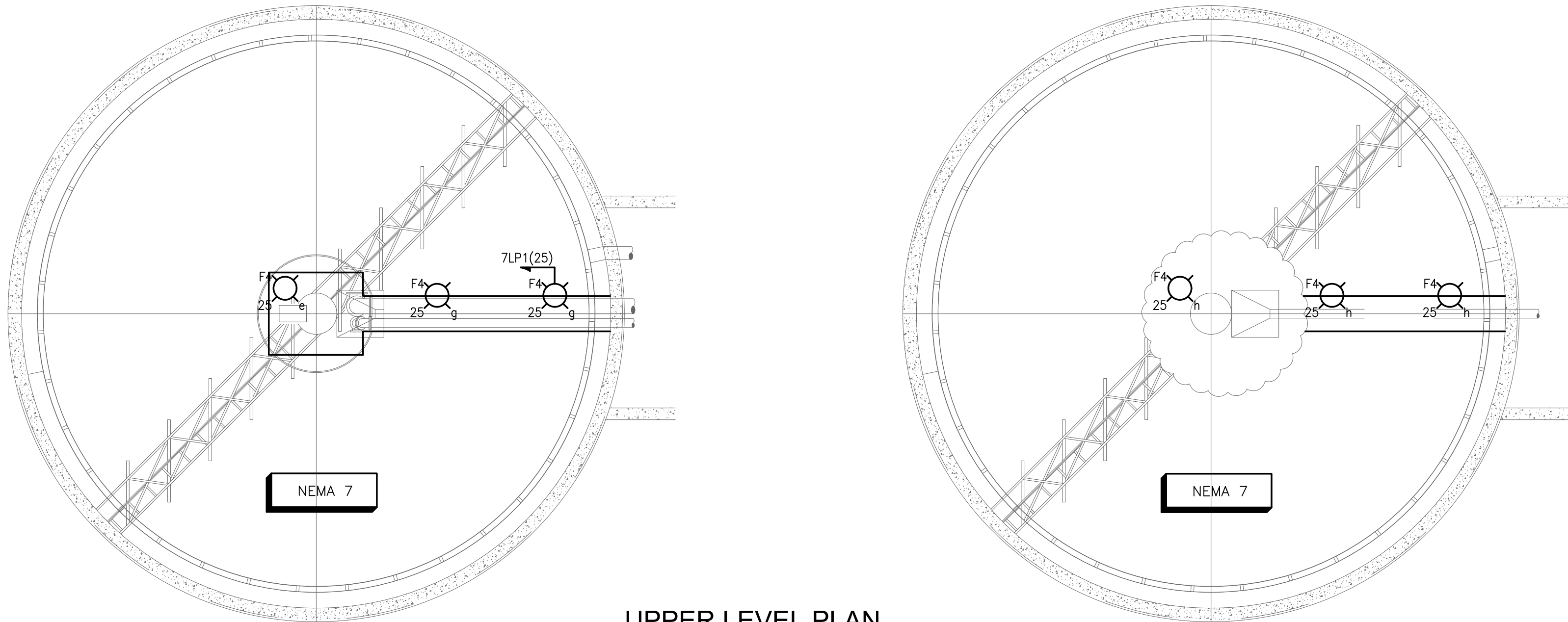
SCALE 1

AS SHOWN

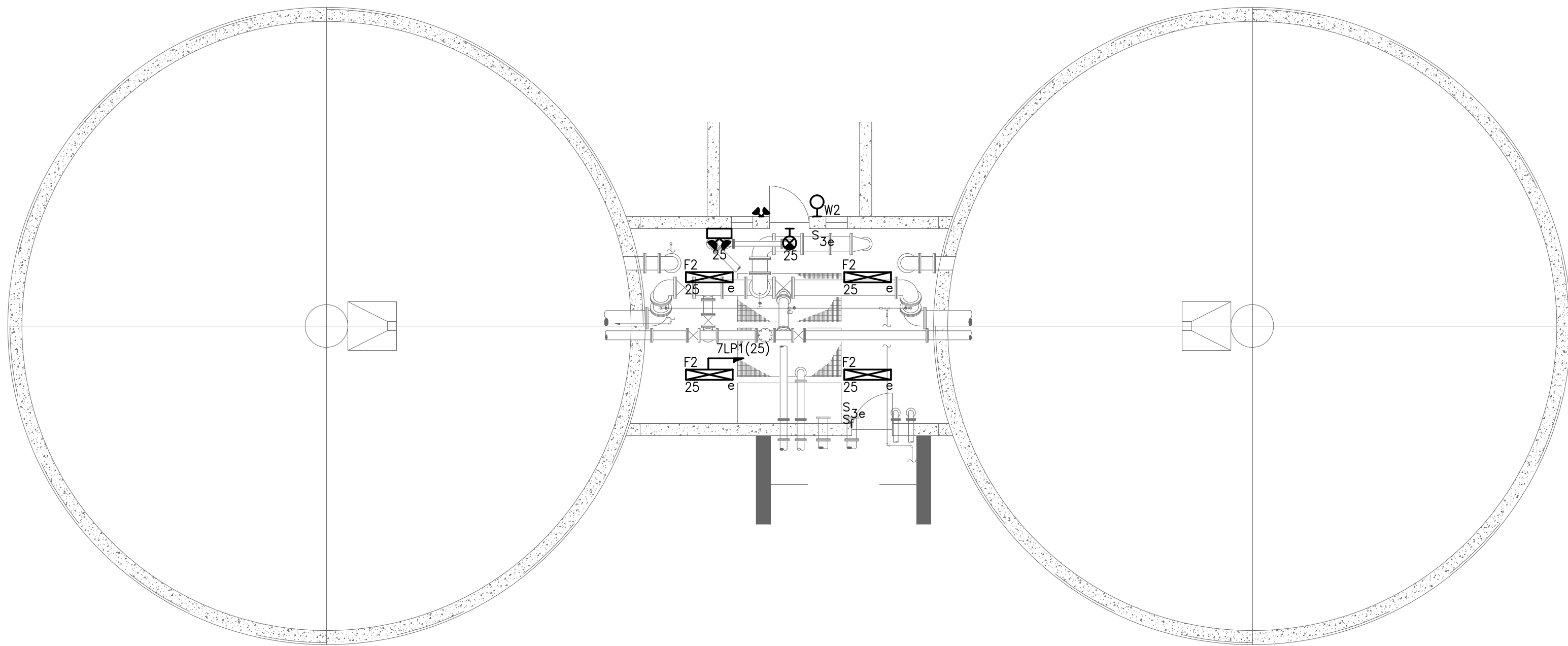
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO. .

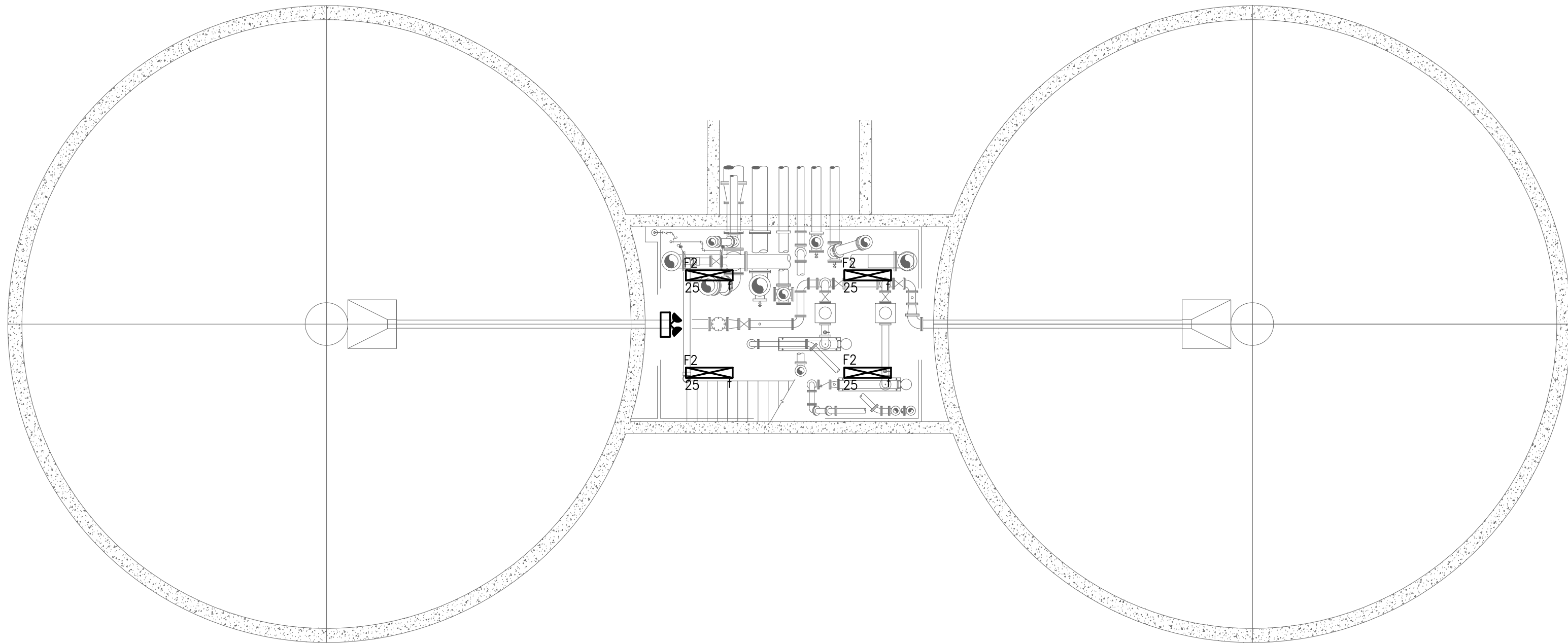
E-7.6



UPPER LEVEL PLAN
SCALE: 1/8"= 1'-0"



MID LEVEL PLAN
SCALE: 1/8"= 1'-0"



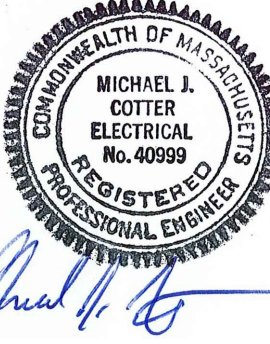
LOWER LEVEL PLAN
SCALE: 1/8"= 1'-0"

1/3/2021 12:55 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1\18009.00 ELEC SOLDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Solids Handling

Taunton, MA

TITLE

Electrical
Gravity Thickening
Tanks
New Work Lighting
Plans

AS RE-ISSUED PER
ADDENDUM #2

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY: RLB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 10/16/2020

BETA JOB NO.: 6050

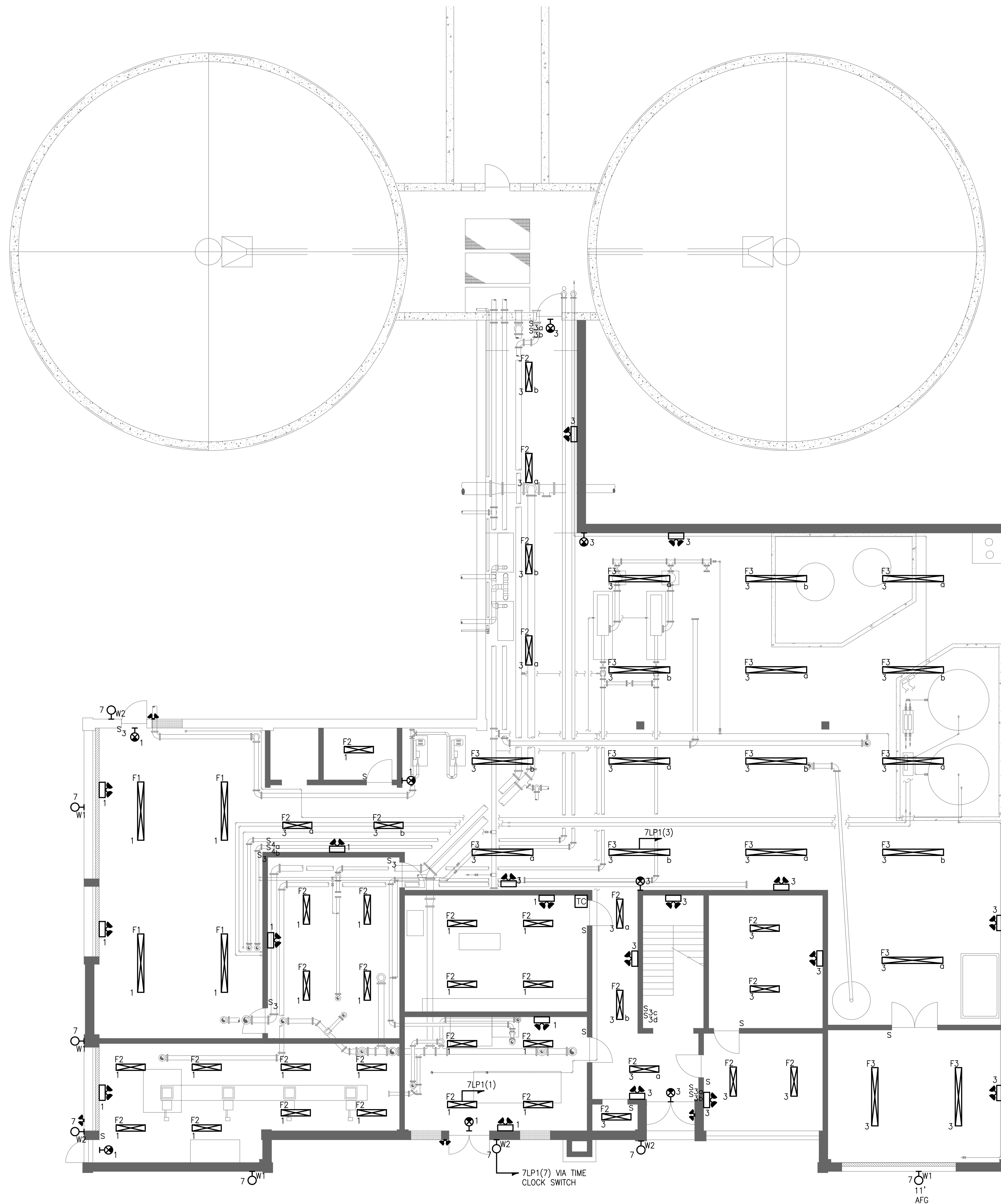
SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

E-7.7



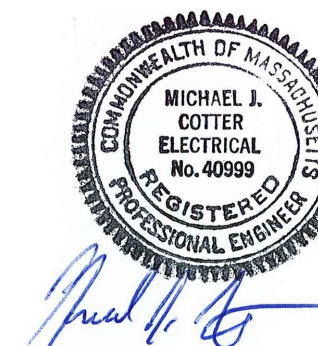
FIRST FLOOR - PLAN
SCALE: 1/8" = 1'-0"

1/13/2021 12:56 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADES\ELECTRICAL DEPARTMENT\PHASE 1A\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

PREPARED BY	
-------------	--



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617 328-9215
web: www.sar.com

PROJECT

Taunton Wastewater Treatment Facility Improvements Solids Handling

Taunton, MA

TITLE

Electrical
Solids Handling
Building
First Floor New
Work Lighting
Plan

AS RE-ISSUED PER
ADDENDUM #2

[illegible]

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY: RLB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 10/16/2020

BETA JOB NO.:	6050
---------------	------

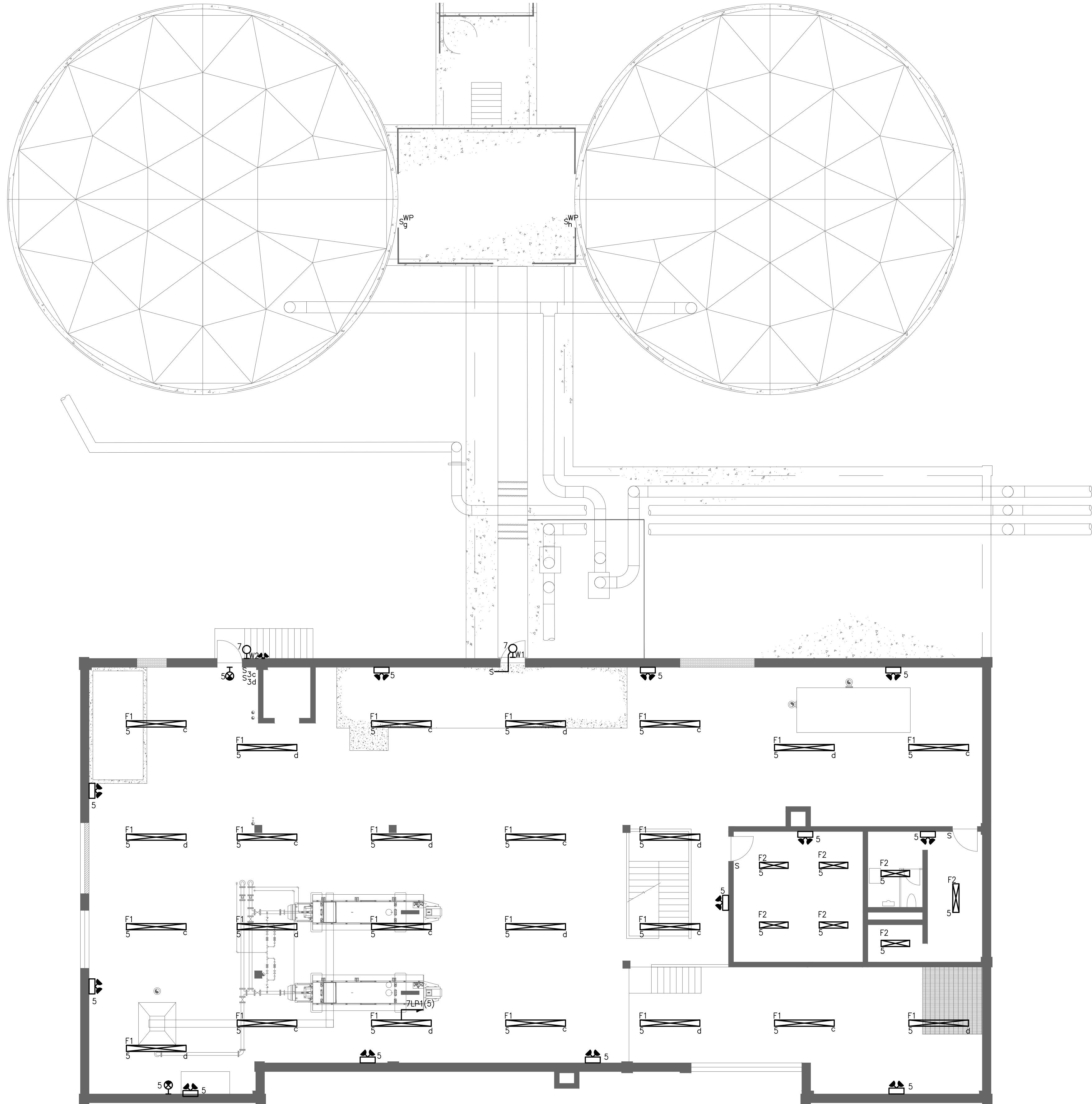
SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO

E-7.8



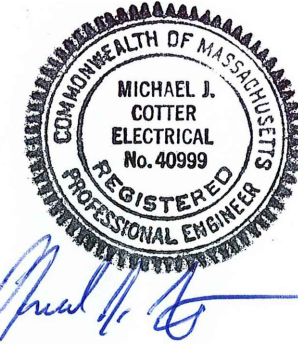
SECOND FLOOR - PLAN
SCALE: 1/8"= 1'-0"

1/13/2021 12:56 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

**Taunton Wastewater
Treatment Facility
Improvements
Solids Handling**

Taunton, MA

TITLE

**Electrical
Solids Handling
Building
Second Floor
New Work
Lighting Plan**

**AS RE-ISSUED PER
ADDENDUM #2**

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	10/16/2020
BETA JOB NO.:	6050

SCALE

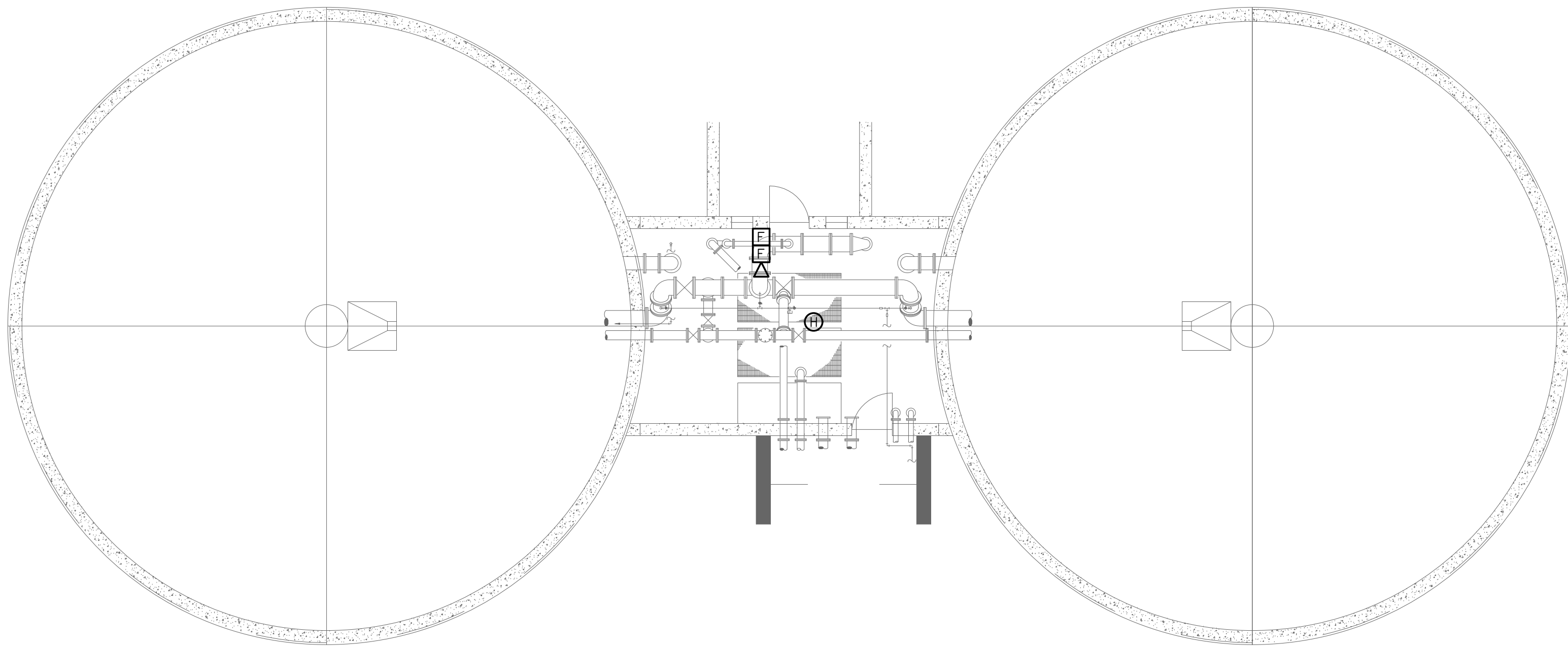
AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

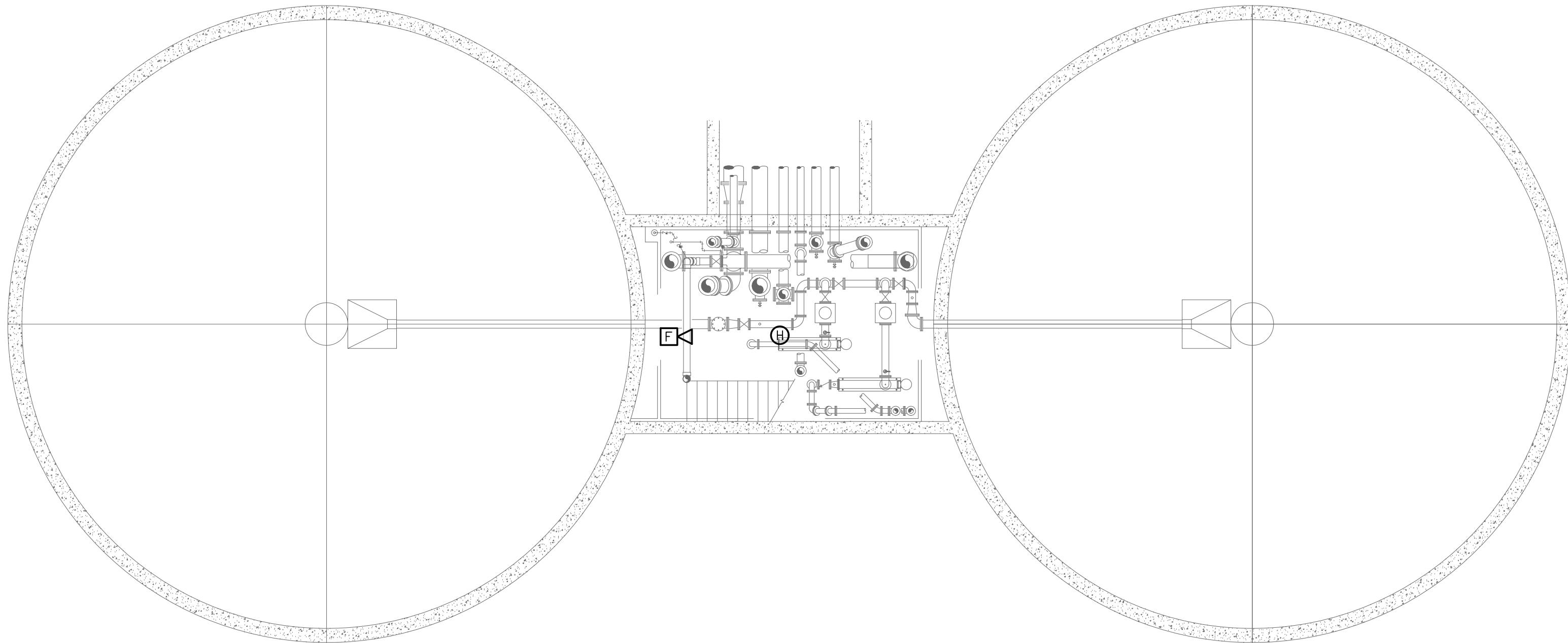
SHEET NO.

E-7.9

1/13/2021 12:57 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1\18009.00 ELEC SOLDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)



MID LEVEL PLAN
SCALE: 1/8"= 1'-0"



LOWER LEVEL PLAN
SCALE: 1/8"= 1'-0"

PREPARED BY



REGISTERED PROFESSIONAL



Michael J. Gutter

SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

**Taunton Wastewater
Treatment Facility
Improvements
Solids Handling**

Taunton, MA

TITLE

**Electrical
Gravity Thickening
Tanks
New Work Fire Alarm
Plans**

**AS RE-ISSUED PER
ADDENDUM #2**

NO.	REVISIONS	DATE

DRAWN BY: RLB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 10/16/2020

BETA JOB NO.: 6050

SCALE

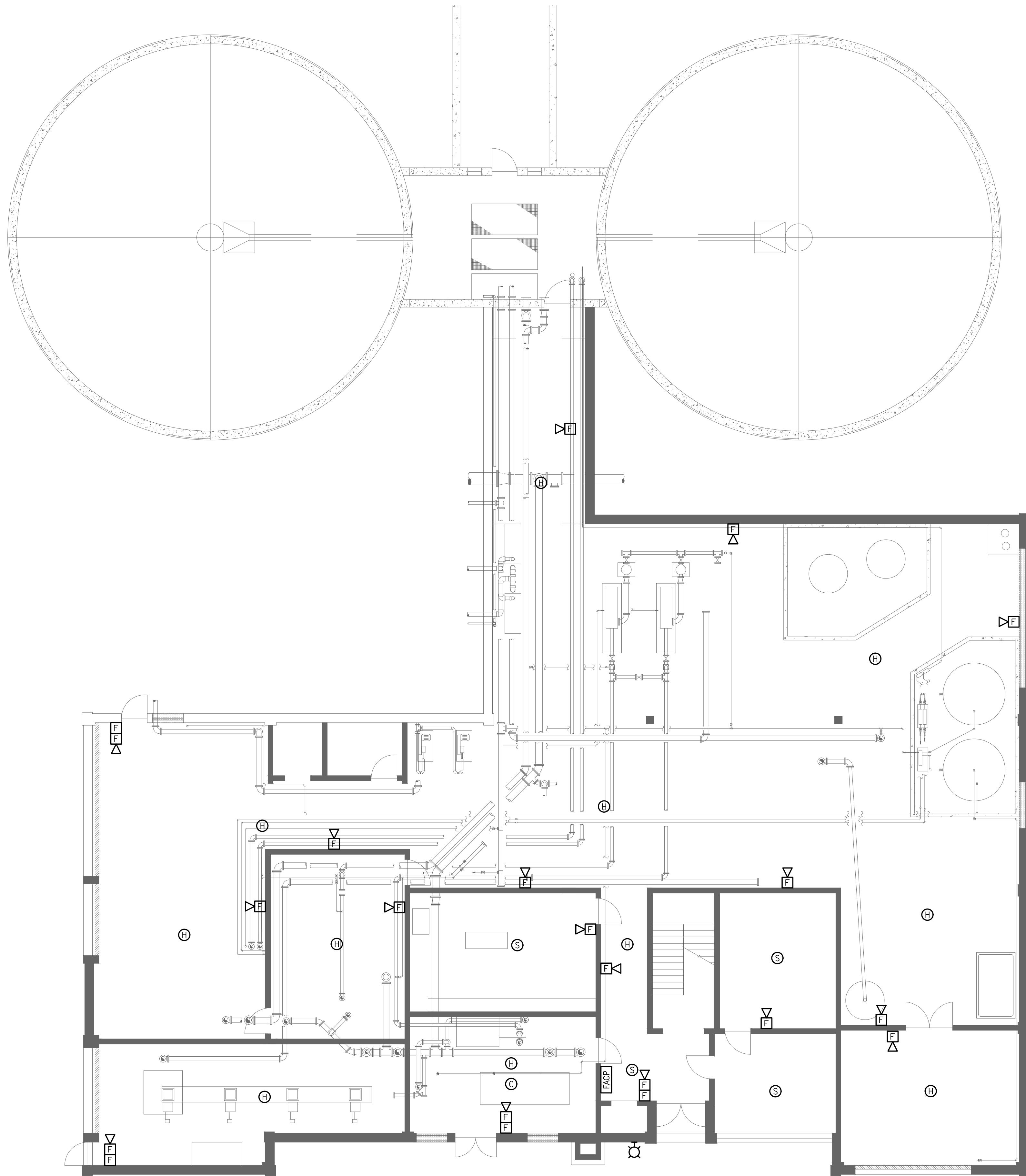
AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

E-7.10

1/13/2021 12:57 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE 1\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

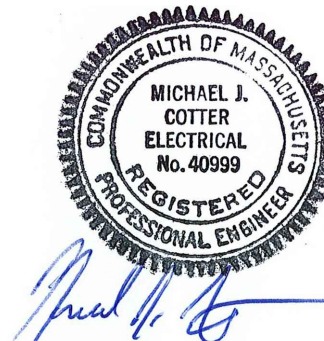


FIRST FLOOR - PLAN
SCALE: 1/8"= 1'-0"

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

Taunton Wastewater
Treatment Facility
Improvements
Solids Handling

Taunton, MA

TITLE

Electrical Solids
Handling
Building
First Floor New
Work Fire Alarm
Plan

AS RE-ISSUED PER
ADDENDUM #2

NO.	REVISIONS	DATE

SCALE

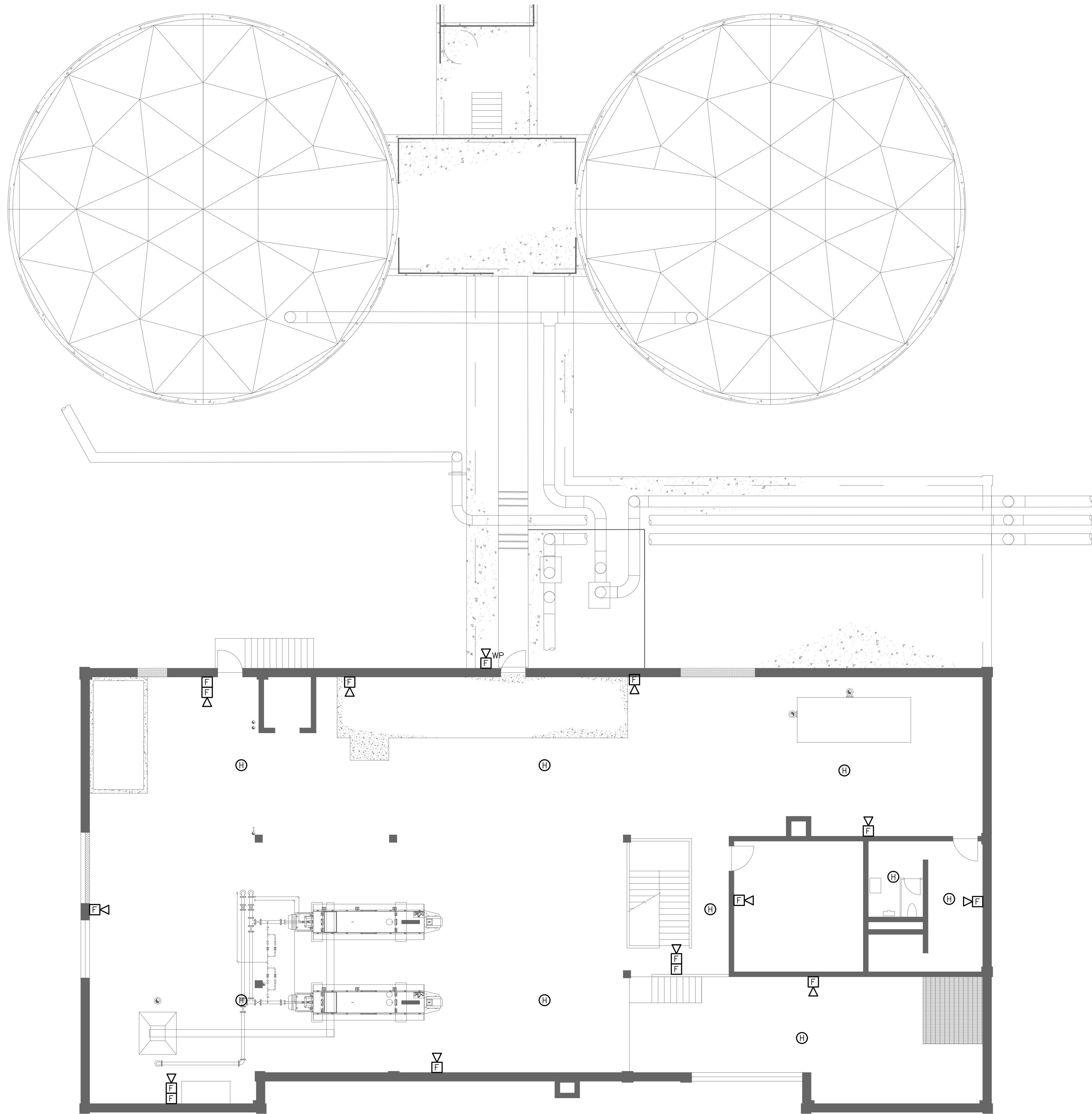
AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

E-7.11

1/13/2021 12:58 PM W:\YEAR - 2018\18009.00 - TAUNTON WWTF UPGRADE\ELECTRICAL DEPARTMENT\PHASE (A)\18009.00 ELEC SOLIDS HANDLING BUILDING & TANKS - 1A.DWG (BETA STB BW.STB)

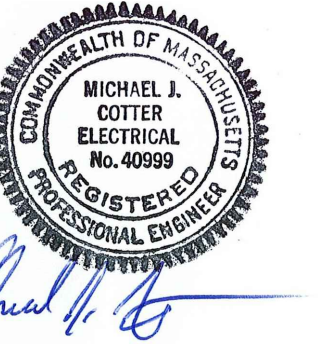


SECOND FLOOR - PLAN
SCALE: 1/8"= 1'-0"

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 309
Braintree, Massachusetts 02184
617.328-9215
web: www.sar.com

PROJECT

**Taunton Wastewater
Treatment Facility
Improvements
Solids Handling**

Taunton, MA

TITLE

**Electrical Solids
Handling
Building
Second Floor
New Work Fire
Alarm Plan**

**AS RE-ISSUED PER
ADDENDUM #2**

NO.	REVISIONS	DATE

SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

E-7.12