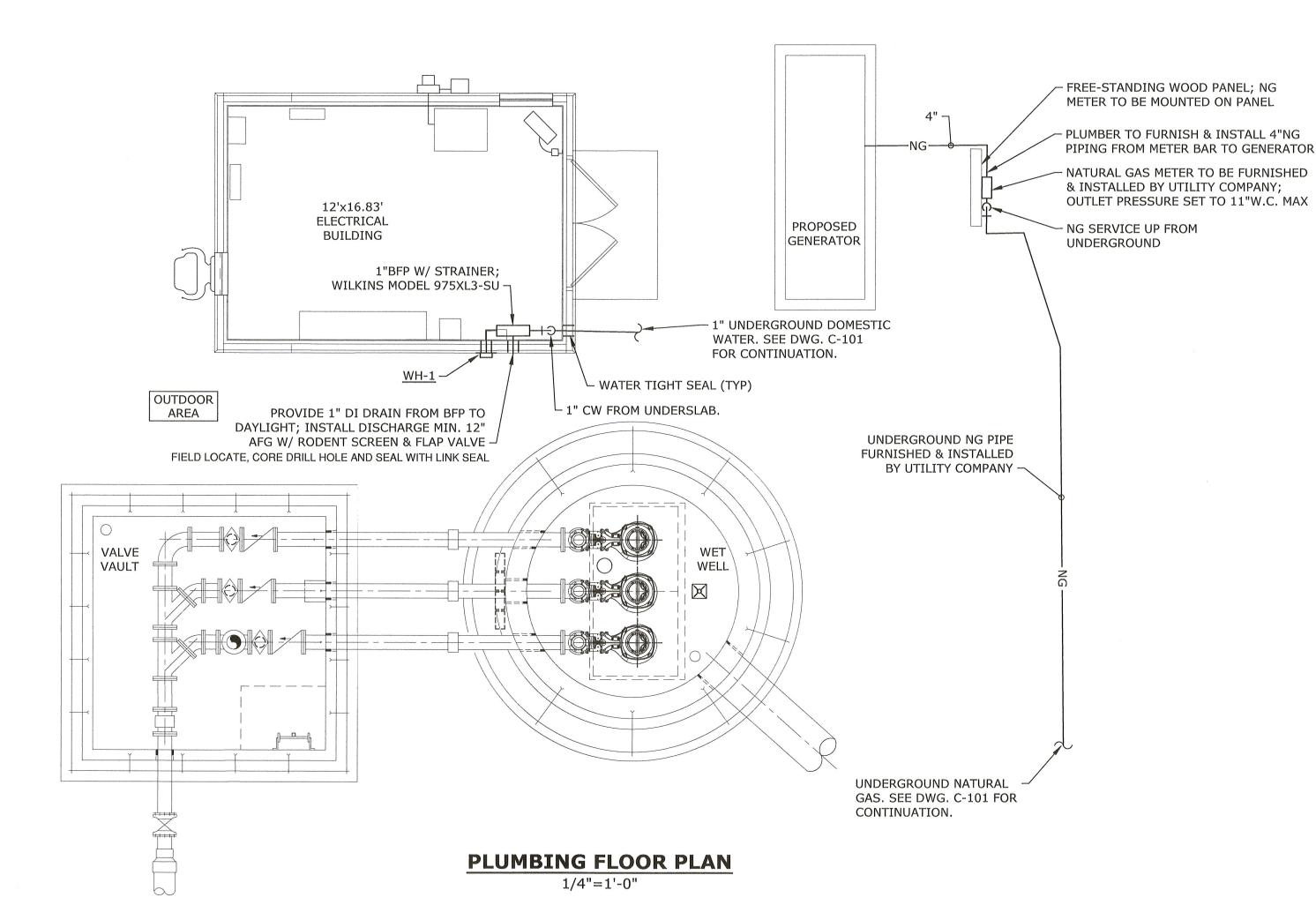
GENERAL PLUMBING NOTES

- 1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
- 2. PROVIDE ALL REQUIRED MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY FOR THE INSTALLATION OF THE WORK AS SHOWN ON THESE DRAWINGS OR AS INDICATED IN
- 3. ALL MATERIALS, METHODS, SUPPORTS, AND EQUIPMENT INSTALLED MUST BE IN COMPLIANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE CODES.
- 4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. PROVIDE OFFSETS AND TRANSITIONS IN PIPING TO AVOID OBSTRUCTIONS AND INTERFERENCES WITH FIELD CONDITIONS. OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAJOR RELOCATIONS OR INSTALLATION SIGNIFICANT OFFSETS (MORE THAN 6 IN A SINGLE PIPING SYSTEM).
- 5. PLUMBING DRAWINGS DO NOT SHOW ALL CONDITIONS AND SYSTEMS OF THE BUILDING. CONTRACTOR SHALL USE ALL DRAWINGS AND SPECIFICATIONS OF CONTRACT DOCUMENTS FOR COORDINATION AND SHALL VERIFY FIELD CONDITIONS.
- 6. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS INCLUDING LISTED SERVICE CLEARANCE SPACE.
- 7. COORDINATE LOCATIONS OF EQUIPMENT AND SYSTEMS WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATIONS REQUIRED THAT RESULTED FROM A LACK OF COORDINATION SHALL BE PERFORMED AT NO ADDITIONAL COST.
- 8. COORDINATE ALL PENETRATIONS THROUGH WALLS, FLOORS, AND THE ROOF WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- 9. CORE THROUGH FLOORS AND FULL HEIGHT WALLS AS REQUIRED TO INSTALL PIPING.
- 10. CONDUCT A SURVEY WITH A PACHOMETER OR BY SIMILAR MEANS TO IDENTIFY THE LOCATION OF STEEL REINFORCING BARS WHEN CORING A HOLE THROUGH EXISTING CONCRETE SLABS OR WALLS. THE NEW CORE SHALL BE LOCATED TO AVOID CUTTING REINFORCING BARS. WHERE REINFORCING STEEL IS CLOSE ENOUGH TOGETHER THAT IT IS NOT POSSIBLE TO CORE THE REQUIRED HOLE WITHOUT CUTTING THE REINFORCING BARS, CONTACT THE ENGINEER FOR FURTHER DIRECTION BEFORE CUTTING A HOLE. THE SLAB WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR WHEN REINFORCING BARS CUT WITHOUT THE CONSENT OF THE ENGINEER.
- 11. ALL PLUMBING PIPING WHICH PASSES THROUGH WALLS, FLOORS, AND FOUNDATIONS SHALL BE INSTALLED WITH A SLEEVE, SEALED AND INSULATED, PROVIDE WALL ESCUTCHEONS FOR EXPOSED PIPING PASSING THROUGH WALLS.

			PLUMI	BING FIX	XTURE SCHE	DULE	
TAG ID	FIXTURE TYPE	SIZE & DESCRIPTION	MATERIAL/COLOR	MOUNTING HEIGHT	MANUFACTURER	MODEL	NOTES
WH-1	WALL HYDRANT	FREEZE PROOF, EXPOSED TYPE	CHROME	24" AFG	WOODFORD	67	WALL MOUNTED, AUTOMATIC DRAINING, FREEZLESS, HOSE CONNECTION, VACUUM BREAKER, AND $\frac{3}{4}$ "FPT INLET. COORDINATE LENGTH OF WALL HYDRANT W/ WALL THICKNESS.



PIPING SYSTEMS

THICK, DARK SOLID LINES INDICATE NEW ITEMS

DOMESTIC COLD WATER PIPE

NATURAL GAS PIPE

ABBREVIATIONS

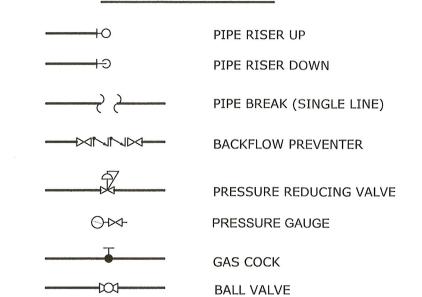
ABOVE FINISHED GRADE BACKFLOW PREVENTER CW COLD WATER **DUCTILE IRON** NOT IN CONTRACT NATURAL GAS PRESSURE REDUCING VALVE STAINLESS STEEL TO BE DETERMINED TBD

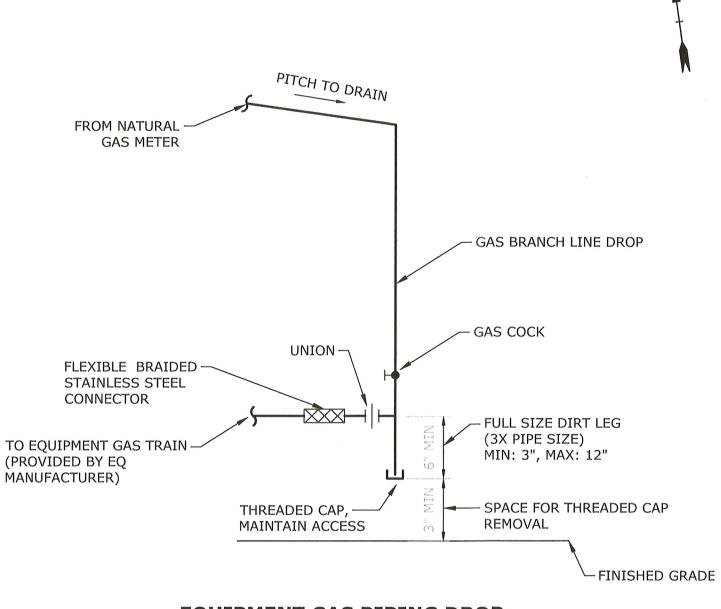
VERIFY IN FIELD

WALL HYDRANT

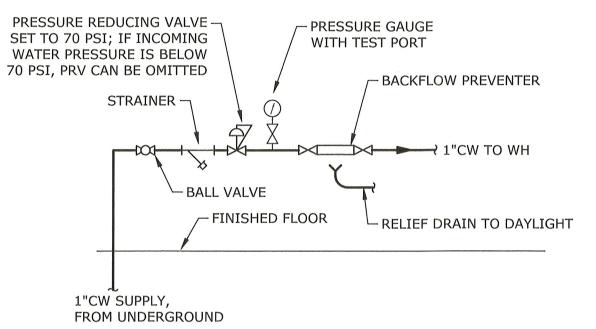
PIPING SYMBOLS

VIF



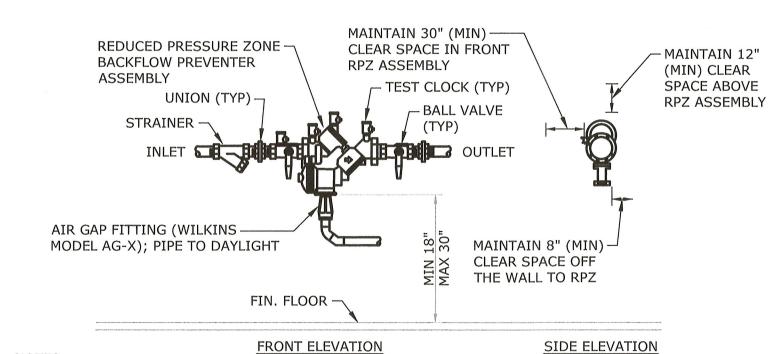


EQUIPMENT GAS PIPING DROP



WATER SERVICE ENTRANCE SCHEMATIC

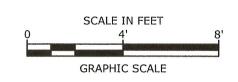
NO SCALE



- 1. THE RPZ MOUNTING HEIGHT AND CLEARANCES INDICATED ABOVE SHALL BE MAINTAINED FOR PROPER ACCESS TO UNIT FOR TESTING, MAINTENANCE, AND INSPECTION PURPOSES.
- 2. THE ASSEMBLY SHALL BE ADEQUATELY SUPPORTED AND/OR RESTRAINED TO PREVENT LATERAL MOVEMENT. PIPE HANGERS, BRACES, SADDLES, STANCHIONS, PIERS, ETC., SHALL BE USED TO SUPPORT THE DEVICE AND SHOULD BE PLACED IN A MANNER THAT WILL NOT OBSTRUCT ACCESS TO THE TESTING PORTS OR VALVES.
- 3. REFER TO DRAWINGS FOR UNIT SIZE(S). 4. THE LOCATION AND MOUNTING HEIGHT OF THE RPZ SHALL BE APPROVED BY THE WATER AUTHORITY PRIOR TO
- INSTALLATION. 5. THE AREA WHERE THE RPZ IS TO BE INSTALLED SHALL BE HEATED TO 40°F MINIMUM, WELL LIT, PROVIDED
- WITH ADEQUATE DRAINAGE AND SHALL NOT BE SUBJECT TO FLOODING.

REDUCED PRESSURE ZONE BACKFLOW PREVENTER NO SCALE

DUTCHESS COUNTY DEPT. OF HEALTH Poughkeepsie New York These plans are approved. See first sheet for date and signature.









West Main Street Pump Station and Force Main

City of Beacon

Beacon, New York

SERVICES PROVIDED IN NEW YORK BY T&B ENGINEERING AND

LANDSCAPE ARCHITECTURE, P.C. UNAUTHORIZED ALTERNATIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

	10/19/2022	FOR REGULATORY REVIEW					
ARK	DATE	DESCRIPTION					
ROJE	CT NO:	B0748-003					
ATE:		OCTOBER 2022					
LE:	E	0748-003-P-101.dwg					

DAM

AS SHOWN

CHECKED BY: JAC APPROVED BY: PMV **PLUMBING**

DRAWN BY:

SCALE:

DETAILS, SCHEDULES AND PLAN

> P-101 SHEET 13 OF 24

LEVEL SWITCH "LOW-LOW"

PRESSURE SENSOR

POLE LIGHT

"SA" (CAPITAL LETTER(S) OR COMBINATION OF CAPITAL LETTER(S) AND NUMBERS) INDICATES FIXTURE TYPE.

"2" (NUMBER OR PANELBOARD NAME AND NUMBER) INDICATES CIRCUIT NUMBER. "a" (LOWERCASE LETTER) INDICATES SWITCH CONTROL OF FIXTURE.

LIGHTING FIXTURE, SURFACE MOUNTED. WALL MOUNTED LIGHTING FIXTURE

WALL MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON

EMERGENCY BATTERY UNIT

AREA CLASSIFICATIONS

WET PROVIDE NEMA 4X STAINLESS STEEL BOXES, DEVICES AND FITTINGS. LOCATION

> PROVIDE EXPLOSION PROOF BOXES AND FITTINGS IN THIS AREA. CONTROL AND SIGNAL CABLES SHALL BE INHERENTLY SAFE. CONDUCTOR SHALL BE

XHHN TYPE.

PROVIDE NEMA 12 BOXES, DEVICES AND FITTINGS. PROVIDE NEMA 3R BOXES, DEVICES AND FITTINGS.

PROVIDE NEMA 4X STAINLESS STEEL BOXES, DEVICES AND FITTINGS.

GENERAL NOTES

- 1. REFER TO PROCESS MECHANICAL DRAWINGS AND VENDOR DRAWINGS FOR COORDINATION OF EQUIPMENT LOCATIONS AND POWER REQUIREMENTS.
- 2. COORDINATE ALL REQUIRED OPENINGS/PENETRATIONS THROUGH WALLS, FLOORS, AND CEILING WITH OTHER TRADES AND APPROVED EQUIPMENT SUBMITTALS.
- OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO COST TO THE OWNER.
- 4. SUPPORT ALL UTILITIES AND STRUCTURES DURING CONSTRUCTION AND MAKE REPAIRS IF DAMAGED.
- 5. THE LOCATIONS OF EXISTING UTILITIES AND EQUIPMENT ARE APPROXIMATE. BEFORE COMMENCING WORK. BE FULLY RESPONSIBLE FOR ANY AND ALL PRESERVE ANY AND ALL UTILITIES AND STRUCTURES.

GENERAL SITE NOTES

1. REFER TO THE CIVIL DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.

EXPLOSION PROOF SEAL

LED UNDER CABINET LIGHT

DUPLEX 70 AMP - 120VAC RECEPTACLE

SWITCH

PHOTO CELL

MOTION SENSOR

GROUND ROD

TRANSFORMER

- 2. ALL EXCAVATION, TRENCHING, BACK FILL AND COMPACTION OF DUCT BANKS BY THE CONTRACTOR.
- 3. WHERE ROUTING IS SPECIFICALLY INDICATED, CONDUITS SHALL BE ROUTED AS INDICATED ON THE DRAWING. NO EXCEPTION WITHOUT PRIOR WRITTEN PERMISSION FROM THE PROJECT ELECTRICAL ENGINEER.
- 4. ALL CONCRETE WORK SHALL BE BY THE GC.

GENERAL POWER NOTES

- 1. ALL RECEPTACLES EXTERIOR TO THE BUILDING SHALL HAVE WEATHER-PROOF WHILE-IN-USE COVERS AND SHALL BE GFI TYPE.
- 2. DEVICE TYPES SHALL BE SUITABLE FOR THE SPECIFIC AREA CLASSIFICATION SHOWN.

KILOWATTS LIMIT SWITCH LONG, SHORT, INSTANTANEOUS AND GROUND FAULT SETTINGS MECHANICAL CONTRACTOR MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MISCELLANEOUS NORMALLY CLOSED NATIONAL ELECTRICAL CODE NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE PHASE PROGRAMMABLE LOGIC CONTROLLER PRESSURE SWITCH HIGH PRESSURE SWITCH LOW POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RECESSED RECEPTACLE RIGID GALVANIZED STEEL

> **West Main Street Pump** Station and **Force Main**

Tighe&Bond

City of Beacon

Beacon, New York

SERVICES PROVIDED IN NEW YORK BY T&B ENGINEERING AND LANDSCAPE ARCHITECTURE, P.C.

UNAUTHORIZED ALTERNATIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

	10/19/2022	FOR REGULATORY REVIEW					
MARK	DATE	DESCRIPTION					
PROJE	CT NO:	B0748-003					
DATE:		OCTOBER 2022					
FILE:	Е	B0748-003-E-001.dwg					
DRAW	N BY:	МВ					
CHECK	ED BY:	MJR					

ELECTRICAL LEGEND, SYMBOLS, AND NOTES

PMV

NO SCALE

APPROVED BY:

SCALE:

E-001 SHEET 14 OF 24

CLASS I

DIV. 1

DRY

LOCATION

OUTDOOR

AREA

CORROSIVE

LOCATION

ALL PIPES OR OTHER UTILITIES DAMAGED DURING THE CONTRACTOR'S

DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND STRUCTURES DAMAGE WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND

SURFACE SCHEDULE SHORT CIRCUIT INTERRUPTING RATING SPARE SPD FLUSH

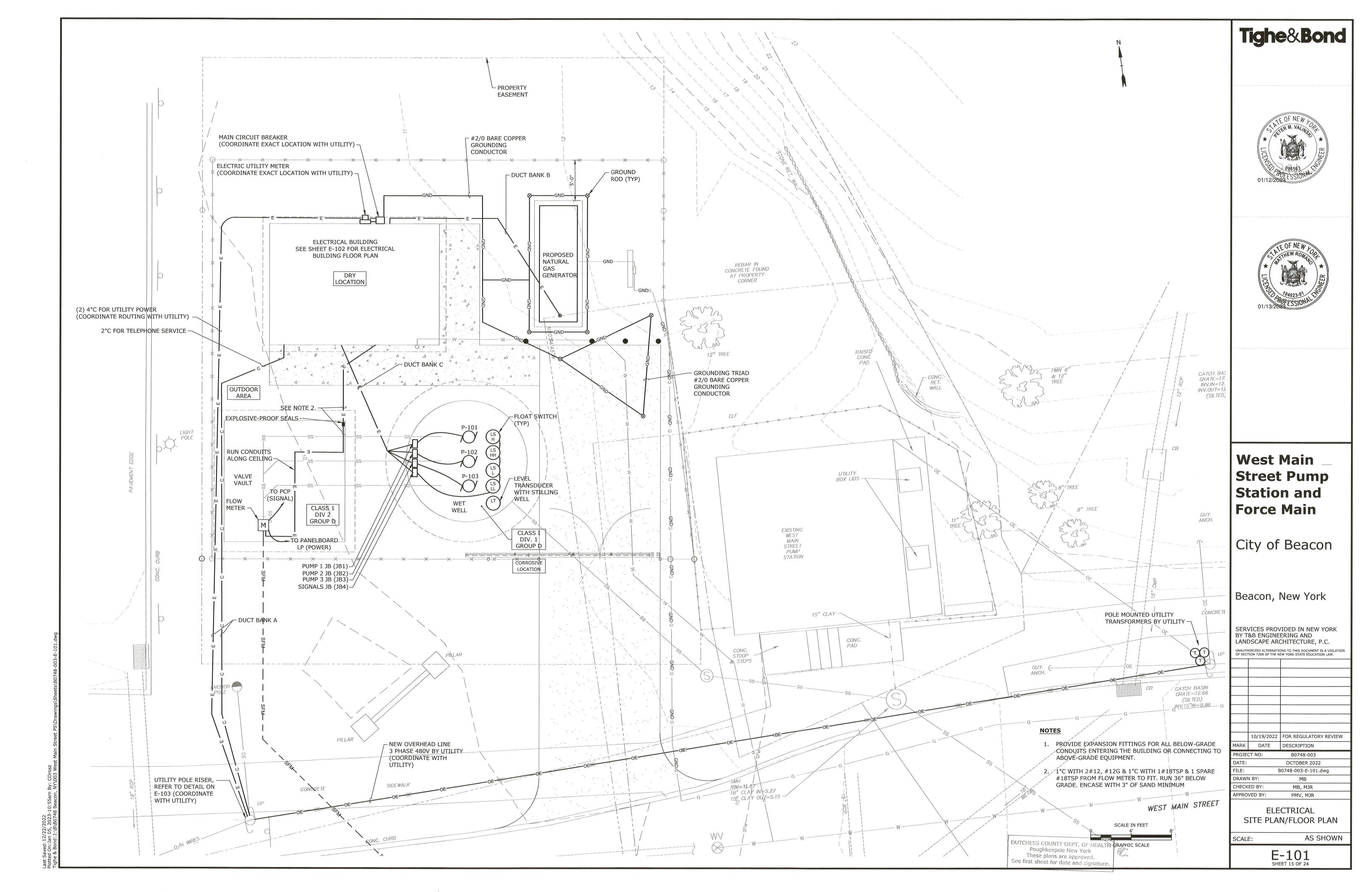
SURGE PROTECTION DEVICE FEET TWISTED SHIELDED PAIR GROUND

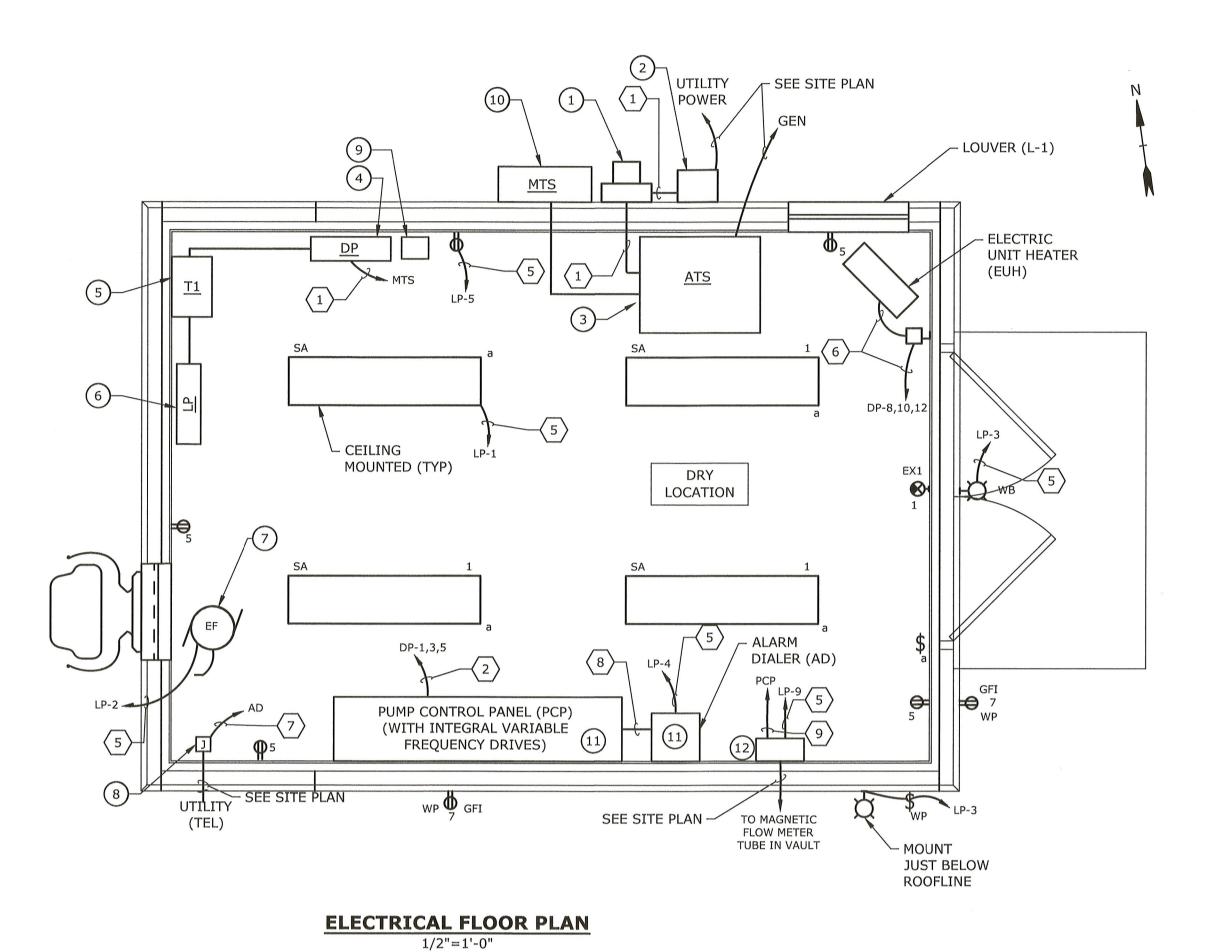
UNDERGROUND UG **GENERATOR** GROUND FAULT INTERUPT

VARIABLE FREQUENCY DRIVE WYE KCMIL ONE THOUSAND CIRCULAR MILS WATT, WIRE KILOVOLT-AMPERES

> WEATHERPROOF TRANSFORMER

> > DUTCHESS COUNTY DEPT. OF HEALTH Poughkeepsie New York These plans are approved. See first sheet for date and signature.





CONDUIT & WIRE SCHEDULE:

- 1 SEE ONE-LINE DIAGRAM
- 2 SEE PANELBOARD SCHEDULE
- (3) 3#10,#10G,1"C
- 4 4#4,#10G,1½"C
- 5 2#12,#12G,¾"C
- 6 3#12,#12G,¾"C
- 8 8#14, 4#14 SPARE,#14G,1"C

7 TELEPHONE CABLE IN 1" C

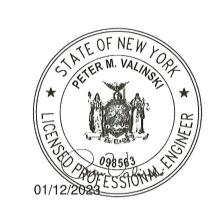
9 #18 TSP CABLE, ¾"C

KEYED NOTES:

- 1) ELECTRIC UTILITY METER
- (2) MAIN CIRCUIT BREAKER (MCB)
- 3 AUTOMATIC TRANSFER SWITCH (ATS)
- 4) 480V MAIN DISTRIBUTION PANEL (DP)

 5) 9KVA 480-120/208V TRANSFORMER (XFMR)
- 6 120/208V PANELBOARD (LP)
- 7 EXHAUST FAN (EF). WIRE TO MOTOR CONTROLLER (NOT SHOWN) AS REQUIRED.
- (8) JUNCTION BOX FOR TELEPHONE SERVICE
- 9) SURGE PROTECTION DEVICE (SPD)
- MANUAL TRANSFER SWITCH (MTS) WITH GENERATOR CONNECTION
- 11) FURNISHED BY OWNER
- FLOW TRANSMITTER (FIT)

Tighe&Bond





West Main Street Pump Station and Force Main

City of Beacon

Beacon, New York

SERVICES PROVIDED IN NEW YORK BY T&B ENGINEERING AND LANDSCAPE ARCHITECTURE, P.C.

UNAUTHORIZED ALTERNATIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

	10/19/2022	FOR REGULATORY REVIEW						
ARK	DATE	DESCRIPTION						
ROJE	CT NO:	B0748-003						
ATE:		OCTOBER 2022						

PROJECT NO: B0748-003

DATE: OCTOBER 2022

FILE: B0748-003-E-102.dwg

DRAWN BY: MB

CHECKED BY: MB, MJR

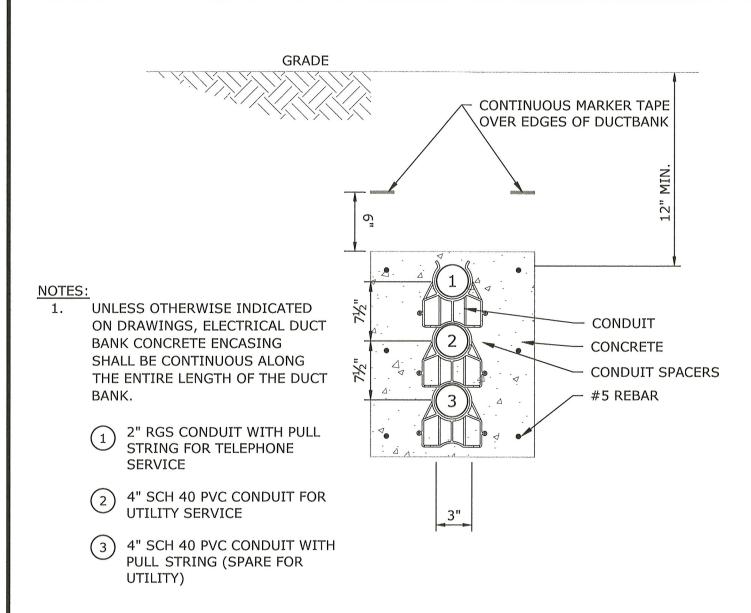
APPROVED BY: PMV, MJR

PREFABRICATED BUILDING ELECTRICAL FLOOR PLAN

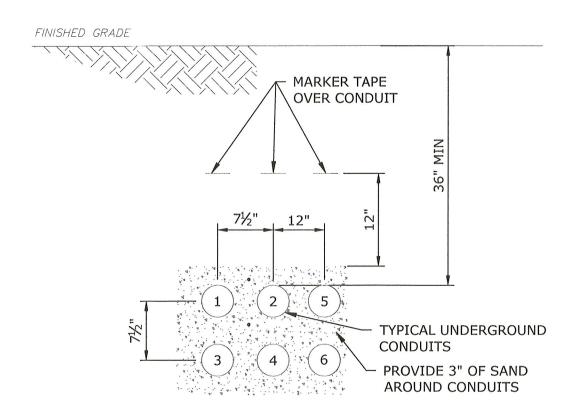
SCALE: AS SHOWN

E-102 SHEET 16 OF 24

DUTCHESS COUNTY DEPT. OF HEALTH
Poughkeepsie New York
These plans are approved.
See first sheet for date and signature.

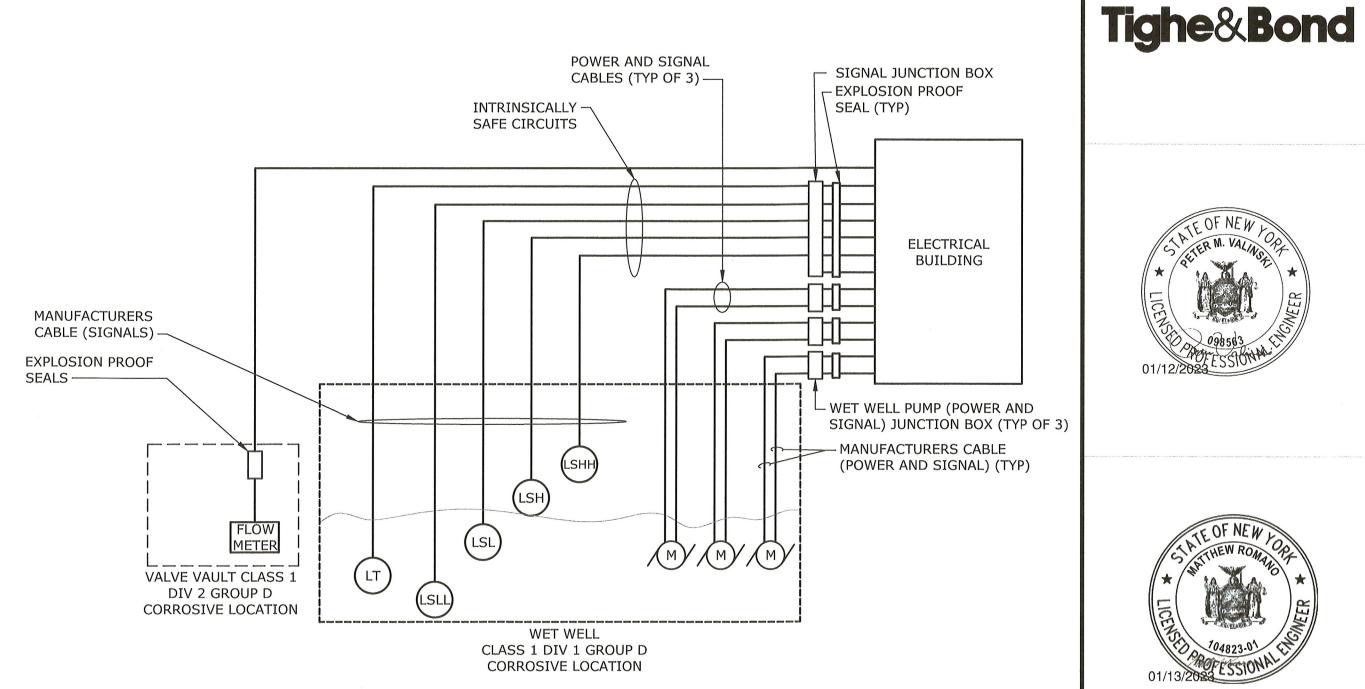


UNDERGROUND DUCT BANK A



- (1) SUBMERSIBLE PUMP #1 POWER/SIGNAL WIRING IN 2"C TO THE PUMP CONTROL PANEL.
- 2) SUBMERSIBLE PUMP #2 POWER/SIGNAL WIRING IN 2"C TO THE PUMP CONTROL PANEL.
- (3) SUBMERSIBLE PUMP #3 POWER/SIGNAL WIRING IN 2"C TO THE PUMP CONTROL PANEL.
- (4) SPARE 2"C WITH PULL STRING
- (5) 10#14, 2#14 SPARE, #18TSP, #18TSP SPARE, 2"C
- (6) SPARE 2"C WITH PULL STRING

UNDERGROUND DUCT BANK C



CONTROL WIRING BLOCK DIAGRAM (TYPICAL)

NOTES:

RISER POLE DETAIL

NO SCALE



CABLE GRIP ATTACHMENT-SECONDARY OR NEUTRAL ATTACHMENT (2) 4" RIGID STEEL-CONDUIT FOR POWER AND SPARE, AND 2" RIGID STEEL CONDUIT FOR TELEPHONE WARNING SIGN 36" MAX (2) 4" RIGID STEEL CONDUIT FOR POWER AND SPARE AND 2" RIGID STEEL CONDUIT FOR TELEPHONE FINISHED GRADE VIVVVI 4" MIN TO IXVIVV GROUND CLAMP 36" MIN. SEE
DTL. THIS SHEET 90° STEEL BEND #6 OR #4 (ELBOW) COPPER WIRE **GROUND ROD** NOTE 3 MINIMUM 12" ->

2. SEAL CONDUIT FROM WATER ENTRY AT TOP OF RISER FOR SERVICES INSTALLED IN CONDUIT FOR THE ENTIRE RUN.

1. TOP OF CONDUIT TO EXTEND AT LEAST 2 INCHES ABOVE THE

3. STEEL CONDUIT SHALL BE GROUNDED. USE $\frac{5}{8}$ " x 10" GALVANIZED STEEL ROUND ROD AND CLAMP.

NEUTRAL/SECONDARY ATTACHMENT.

- 4. PREFERRED LOCATION FOR RISER PLACEMENT IS ON FIELD SIDE OF POLE OPPOSITE THE DIRECTION OF TRAFFIC FLOW.
- 5. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO INSTALLATION. COORDINATE UTILITY POLE INSTALLATION WITH UTILITY COMPANY.

DUTCHESS COUNTY DEPT. OF HEALTH Poughkeepsie New York These plans are approved. See first short for date and signature.

West Main Street Pump Station and Force Main

City of Beacon

Beacon, New York

SERVICES PROVIDED IN NEW YORK BY T&B ENGINEERING AND LANDSCAPE ARCHITECTURE, P.C.

UNAUTHORIZED ALTERNATIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

10/19/2022 FOR REGULATORY REVIEW DATE DESCRIPTION PROJECT NO: B0748-003 OCTOBER 2022 FILE: B0748-003-E-103.dwg DRAWN BY: MB

ELECTRICAL DETAILS - 1

MB, MJR

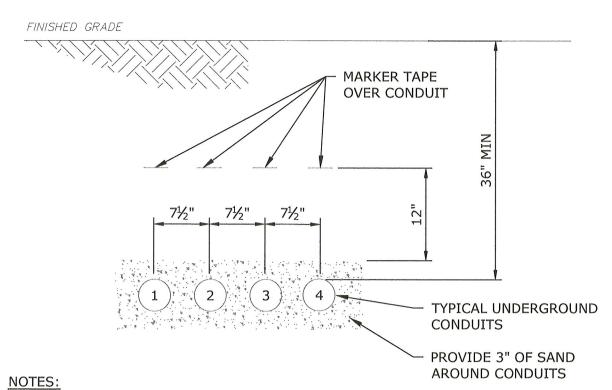
PMV, MJR

CHECKED BY:

APPROVED BY:

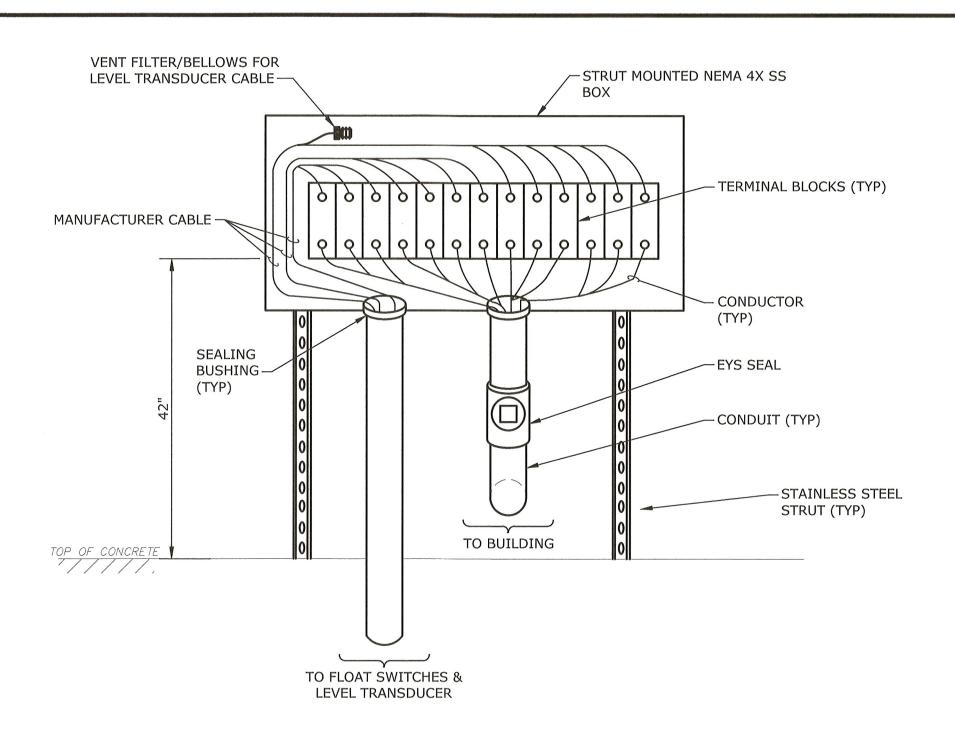
NO SCALE

E-103 **SHEET 17 OF 24**



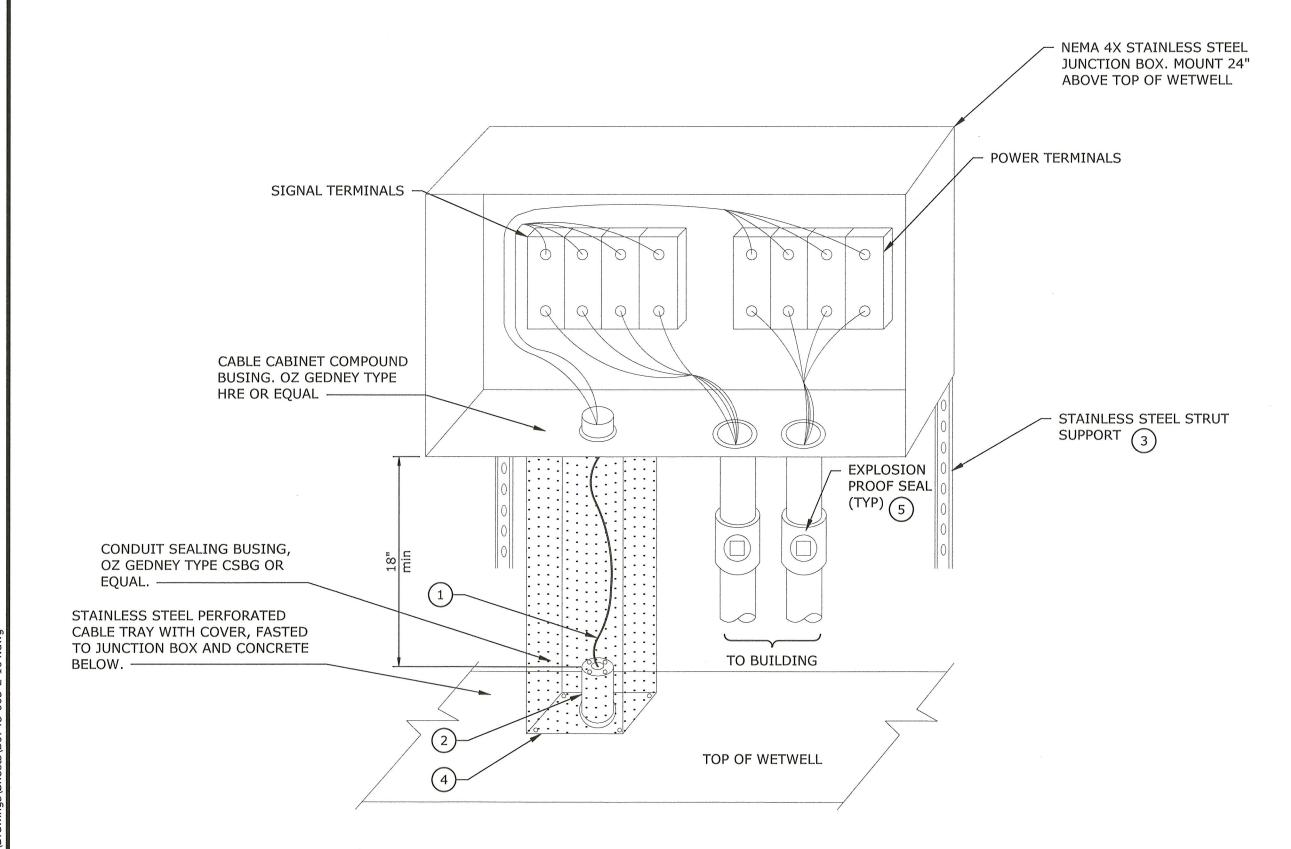
- 1. 4#12,2#12G FOR GENERATOR BLOCK HEATER (FROM CIRCUIT LP-6) AND GENERATOR BATTERY CHARGER (FROM CIRCUIT LP-8) IN 2"C.
- 2.) GENERATOR POWER TO ATS IN 2"C.
- 3.) SPARE 2"C WITH PULL STRING.
- 4.) GENERATOR SIGNAL WIRING (4#14, 4#14 SPARE TO PLC IN PUMP CONTROL PANEL AND 2#14, 2#14 SPARE TO ATS) IN 1"C

UNDERGROUND DUCT BANK B



WET WELL SIGNALS JUNCTION BOX (JB4) ELEVATION AND DETAIL

NO SCALE



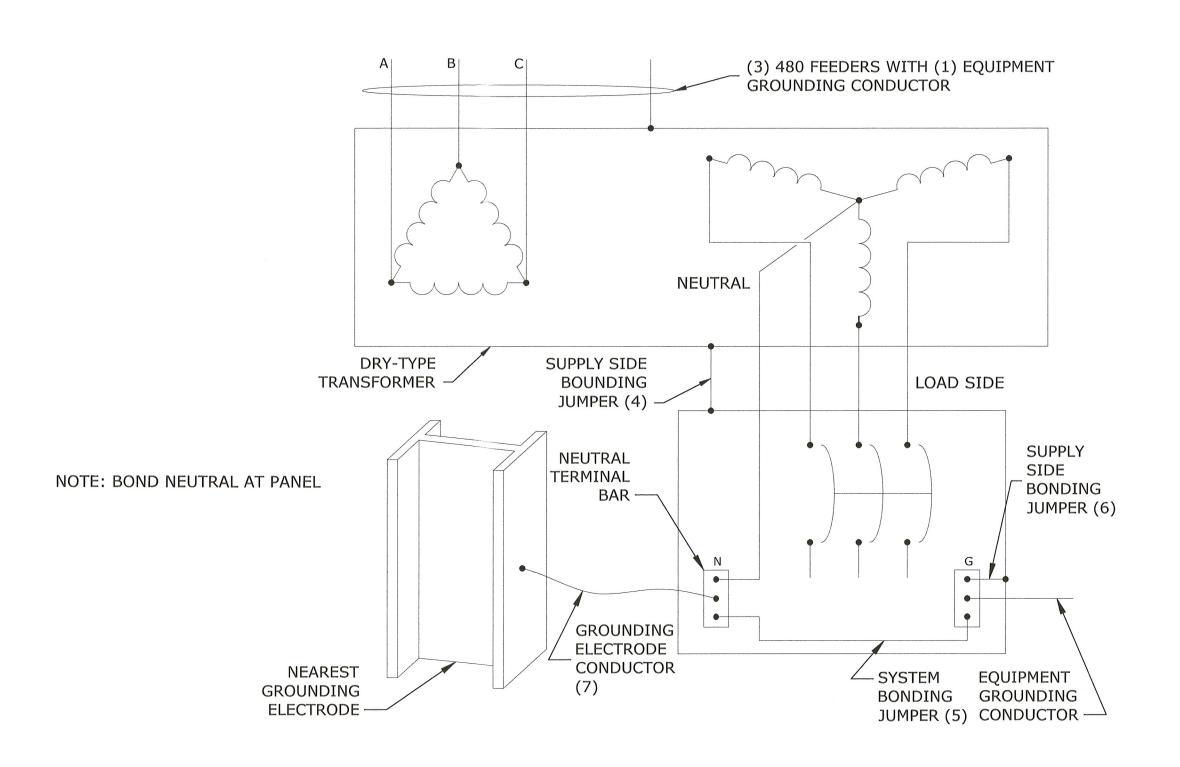
WET WELL PUMP JUNCTION BOX ELEVATION AND DETAIL **ELEVATION AND DETAIL**

NO SCALE

- RUN PUMP POWER/SIGNAL CABLE(S) THROUGH CABLE TRAY FROM CONDUIT SEALING BUSHING TO JUNCTION BOX ABOVE.
- PROVIDE PVC-COATED RIGID STEEL CONDUIT NIPPLE THROUGH CONCRETE FOR CABLE PENETRATION. EXTEND NIPPLE 3" ABOVE CONCRETE.
- FASTEN TO TOP/SIDE OF WETWELL USING ALL STAINLESS STEEL HARDWARE
- 4 FASTEN CABLE TRAY TO CONCRETE WITH 4 STAINLESS STEEL ANCHOR BOLTS.
- 5 PROVIDE EXPLOSION PROOF SEALS PER CODE WHERE CONDUIT RUNS

SIZE	KVA	480V AMPS	208V AMPS	480 VOLT PRIMARY MOCP	208 VOLT SECONDARY MOCP (3)	480 VOLT FEEDER (2)	208 VOLT FEEDER AND SUPPLY SIDE BONDING JUMPER (1)(2)(4)	SYSTEM BONDING JUMPER (1)(2)(5)		GROUNDING ELETRODE CONDUCTOR (1)(2)(7)
T1	9	11	25	15A-3P	35A-3P	3#12 + 1#12G in 3/4" C	4#8 + 1#8G in 3/4" C	1#8	1#8	1#8 in 3/4" C
T2	15	18	42	25A-3P	60A-3P	3#10 + 1#10G in 3/4" C	4#4 + 1#6G in 1-1/4" C	1#6	1#6	1#8 in 3/4" C
Т3	30	36	83	45A-3P	110A-3P	3#6 + 1#10G in 1" C	4#1 + 1#6G in 2" C	1#6	1#6	1#6 in 3/4" C
T4	45	54	125	70A-3P	175A-3P	3#4 + 1#8G in 1" C	4#2/0 + 1#4G in 2" C	1#4	1#4	1#4 in 3/4" C

- (1) SUPPLY SIDE BONDING JUMPER, SYSTEM BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED PER NEC TABLE 250.102. REFER TO DETAIL.
- (2) ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS PER NEC TABLE 310.15(B)16.
- (3) PROVIDE SECONDARY OVERCURRENT PROTECTION. SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN TEN (10) FEET OF THE TRANSFORMERSECONDARY TERMINALS EITHER IN A PANELBOARD (MAIN BREAKER), AN INDIVIDUALLY MOUNTED ENCLOSED CIRCUIT BREAKER, OR FUSED DISCONNECT.
- (4) SUPPLY SIDE BONDING JUMPER INSTALLED IN FEEDER RACEWAY.
- (5) SYSTEM BONDING JUMPER INSTALLED INTERNAL TO PANELBOARD, BREAKER ENCLOSURE OR FUSED DISCONNECT ENCLOSURE.
- (6) SUPPLY SIDE BONDING JUMPER INSTALLED INTERNAL TO PANELBOARD, BREAKER ENCLOSURE OR FUSED DISCONNECT ENCLOSURE.
- (7) GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED IN CONDUIT.
- (8) USING 6 DISCONNECT RULE



SEPERATELY DERIVED SYSTEM GROUNDING FOR DELTA - WYE TRANSFORMERS

DUTCHESS COUNTY DEPT. OF HEALTH Poughkeepsie New York These plans are approved. See first sheet for date and signature.

Tighe&Bond





West Main **Street Pump Station and** Force Main

City of Beacon

Beacon, New York

SERVICES PROVIDED IN NEW YORK BY T&B ENGINEERING AND LANDSCAPE ARCHITECTURE, P.C.

UNAUTHORIZED ALTERNATIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

	10/19/2022	FOR REGULATORY REVIE
IARK	DATE	DESCRIPTION
ROJE	CT NO:	B0748-003
ATE:		OCTOBER 2022

B0748-003-E-104.dwg DRAWN BY: CHECKED BY: MB, MJR APPROVED BY: PMV, MJR

ELECTRICAL DETAILS - 2

NO SCALE SCALE:

> E-104 SHEET 18 OF 24

TYPE	FIXTURE			LAMP DATA					
	DESCRIPTION	MANUFACTURER	MANUFACTURER CATALOG NUMBER (LED FIXTURES)	EQUAL MFG #1	EQUAL MFG #2	WATTS	TYPE	K	VOLT
SA	SURFACE LED IP67 RATED	XTRALIGHT	VTE4-5000L-40K-DIM-SFA-SRG	KURTZON		72		4100	
WB	WALL-MOUNTED LED SCONCE - AREA LIGHTING	XTRALIGHT	DC150-90-48W-40K-BZ-PC2-EM	KIM		48	LED	4000	120
EX1	EXIT SINGLE FACE AND DUAL HEADS	EMERGI-LITE	WW-SVX24N-1-R-DA-4X-2-LJ	LIGHTALARMS	DUAL-LITE		LED	-	120
WC	WALL-MOUNTED LED SCONCE - AREA LIGHTING	XTRALIGHT	DC150-90-72W-40K-BZ	KIM		72	LED	4000	120

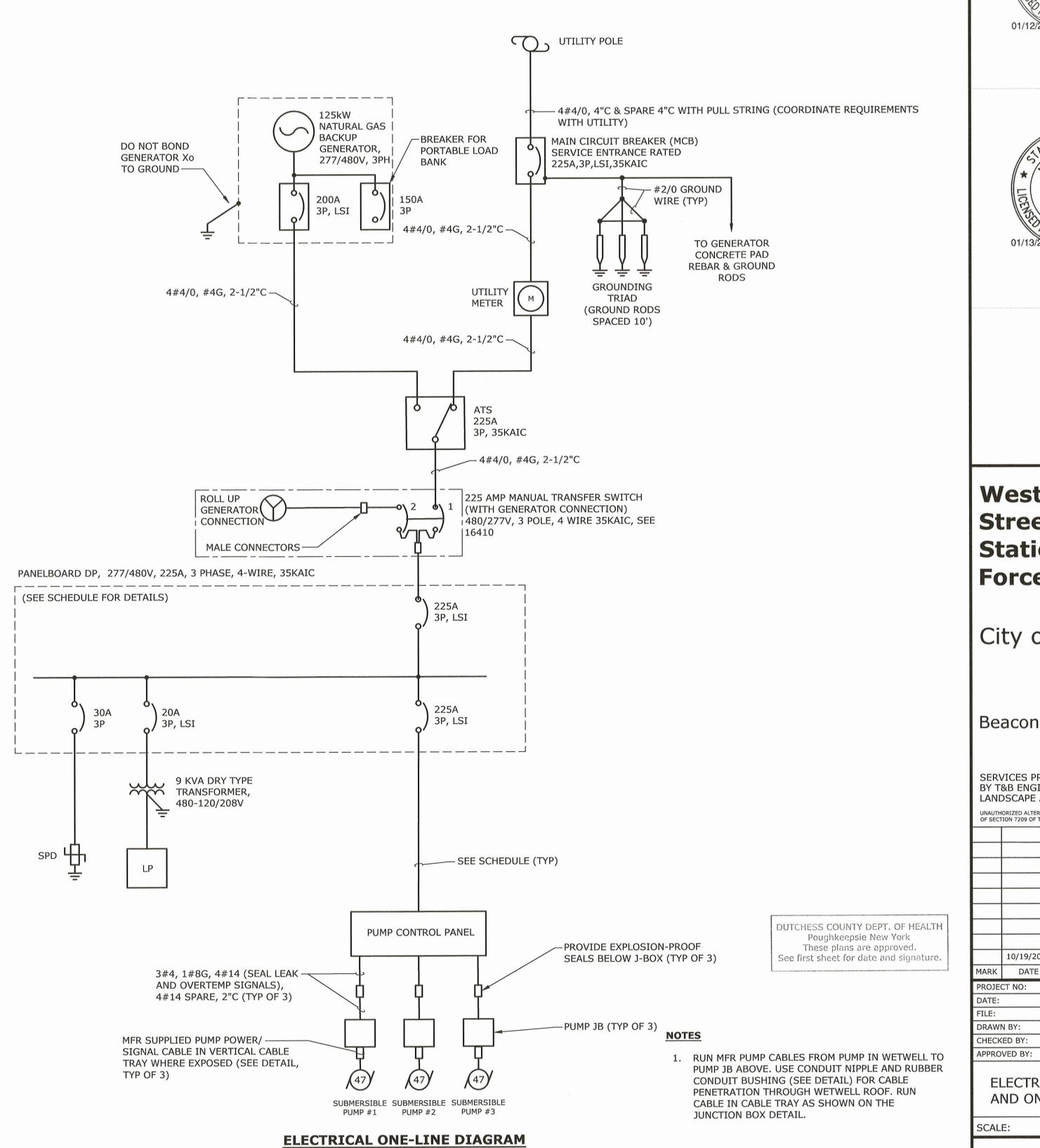
		VOLTAGE (L-L):	480	PHASE:	3	WIRE:	4	VA,	L1	37	,735	PANEL I	VO.	DP		
		VOLTAGE (L-N):	277					VA,	L2	35	,965					
		MAIN BUS:		AMPS				VA,	L3	37	,485	LOCATI				
		MAIN BREAKER:		A FRAM			A TRIP							NEL BREAKER AND CO		
		MOUNTING:	SURFAC	CE	kAIC:	65		TOT	AL VA	111	,185		BREAKE	R SHALL HAVE LSI SE	TING	S
				VA LOAD)							VA LOAD)		ш	
WIRE SIZE	CONDUIT SIZE	DIRECTORY	L1	L2	L3	CKT.	AMPS		AMPS	CKT.	L1	L2	L3	DIRECTORY	CONDUIT SIZE	WIRE SIZE
4#4/0 & 1#4G	2 1/2"	Pump Control Panel	33,588			1	225		20	2	2,470			Panelboard LP	3/4"	3#12 & 1#12
-	-			33,588		3	I			4		700			-	-
-	-				33,588	5	1			6			2,220		-	-
4#10 & 1#10G	3/4"	Surge Protection Device	10			7	30		20	8	1,667			Heater	3/4"	3#12 & 1#1
-	-			10		9	1			10		1,667			-	-
-	-				10	11			1	12			1,667		-	-
-	-	Spare				13	20		20	14				Spare	-	-
-	-					15	I		ı	16				I	-	-
-	-					17	1		ı	18				l	-	-
-	-	Spare				19	20		20	20				Spare	1-1	-
-	-	I				21	I		ı	22					-	-
-	-	I				23	1		ı	24				I	-	-
-	-	Provision				25				26				Provision	-	-
	-	I	***************************************			27		1		28				1	-	-
-	-	I				29				30					-	-
-	-	Provision				31				32				Provision	-	-
-	-	l				33				34				I	-	
-	-					35				36				I	-	-
-	-	Provision				37		1		38				Provision	-	
-	-	Provision				39				40				Provision	-	-
-	-	Provision	***************************************			41				42				Provision	-	-
		SUBTOTAL	33,598	33,598	33,598						4,137	2,367	3,887	SUBTOTAL		

PANELBOARD DP SCHEDULE

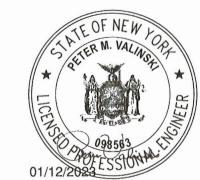
		VOLTAGE (L-L):	208	PHASE:	3	WIRE:		VA,				PANEL	NO.	LP		
		VOLTAGE (L-N):	120					VA,	THE RESERVE THE PERSON NAMED IN COLUMN 2 I		00					
		MAIN BUS:	100	AMPS				VA,	L3	2,	220	LOCATI		ELECTRICAL BUILDING	3	
		MAIN BREAKER:	100	A FRAM			A TRIP					NOTES:				
		MOUNTING:	SURFAC	CE	kAIC:	10		TO	TAL VA	5,	190					
		INCOMING FEEDER SIZ	E:						T		T					1
				VA LOAD)							VA LOAD)			
WIRE SIZE	CONDUIT SIZE	DIRECTORY	L1	L2	L3	скт.	AMPS		AMPS	CKT.	L1	L2	L3	DIRECTORY	CONDUIT SIZE	WIRE SIZE
2#12 & 1#12G	3/4"	Lights Interior	500			1	20		20	2	1,000			Exhaust Fans	3/4"	2#12 & 1#120
2#12 & 1#12G	3/4"	Lights Exterior		250		3	20	1	20	4		200		Alarm Dialer	3/4"	2#12 & 1#120
2#12 & 1#12G	3/4"	Receptacles Interior			720	5	20	1	20	6			1,500	Gen Block Heater	3/4"	2#12 & 1#120
2#12 & 1#12G	3/4"	Receptacles Exterior	720			7	20	1	20	8	250			Gen Batt Charger	3/4"	2#12 & 1#12
2#12 & 1#12G	3/4"	Flow Transmitter		50		9	20	1	20	10				Spare	-	-
	-	Spare				11	20]	20	12				Spare	-	-
-	-	Spare				13	20]	20	14				Spare	-	-
-	-	Spare				15	20	1	20	16				Spare	-	-
-	-	Spare				17	20		20	18				Spare	-	-
-	-	Spare				19	20		20	20				Spare	-	-
-	-	Spare				21	20		20	22				Spare	-	-
	-	Spare				23	20		20	24				Spare	-	-
		SUBTOTAL	1,220	300	720						1,250	200	1,500	SUBTOTAL		

PANELBOARD LP SCHEDULE

CONDUIT SIZES SHOWN ARE THE MINIMUM REQUIRED SIZE; MINIMUM BURIED CONDUIT SIZE SHALL BE 2".



Tighe&Bond





West Main Street Pump Station and Force Main

City of Beacon

Beacon, New York

SERVICES PROVIDED IN NEW YORK BY T&B ENGINEERING AND LANDSCAPE ARCHITECTURE, P.C.

UNAUTHORIZED ALTERNATIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

	10/19/2022	FOR REGULATORY REVIEW					
MARK	DATE	DESCRIPTION					
PROJE	CT NO:	B0748-003					
DATE:		OCTOBER 2022					
FILE:	Е	30748-003-E-105.dwg					

ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM

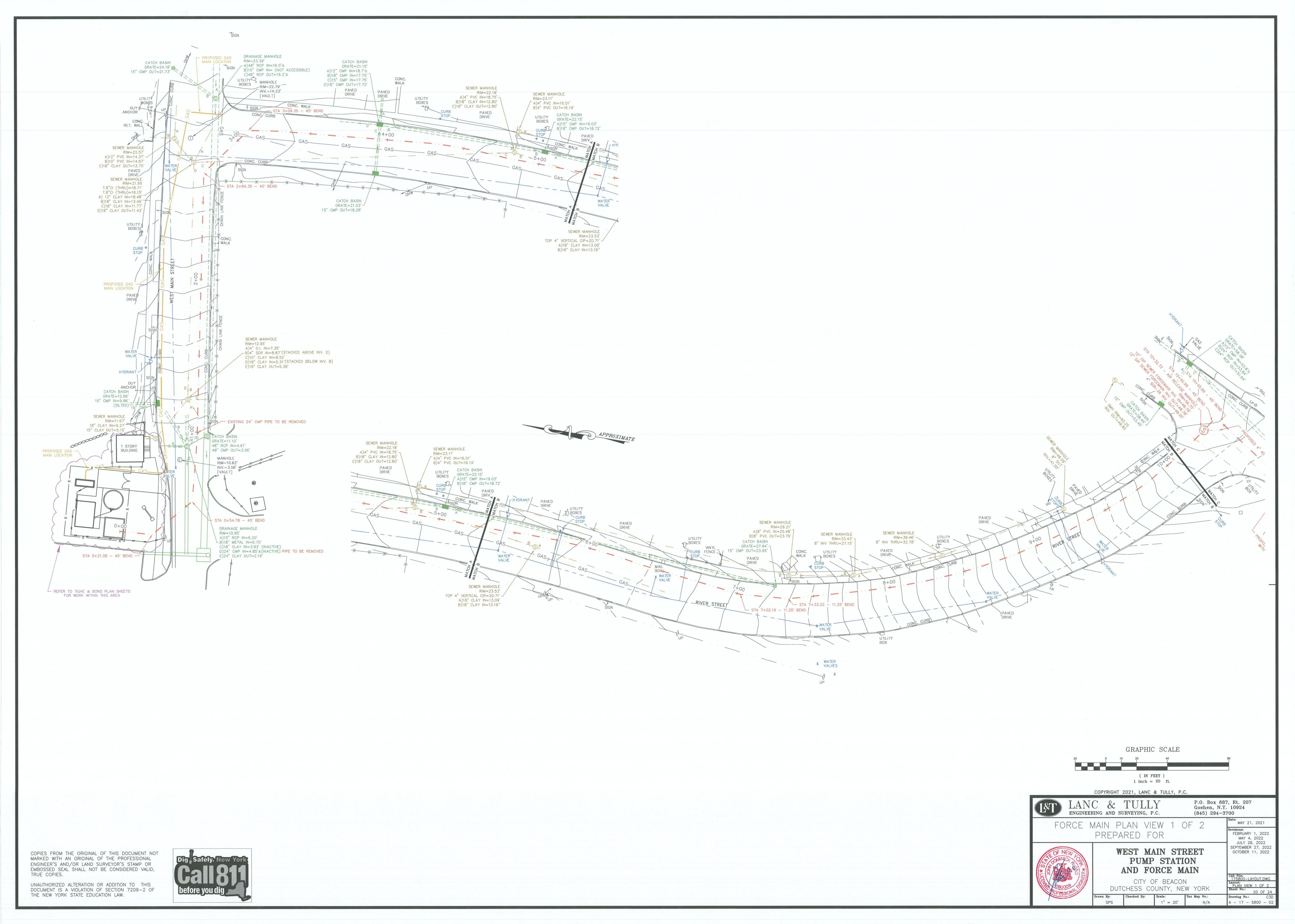
MB

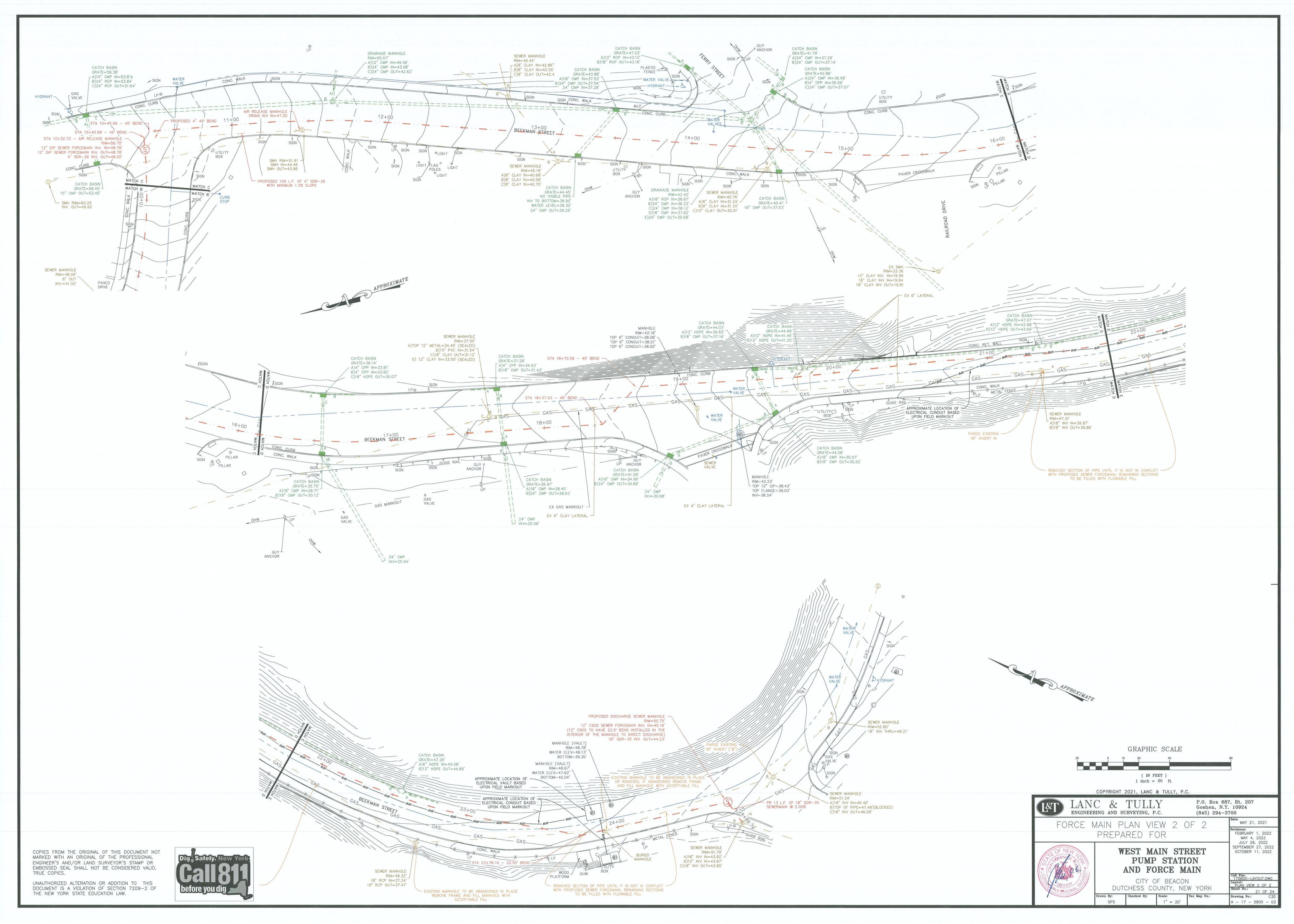
MB, MJR

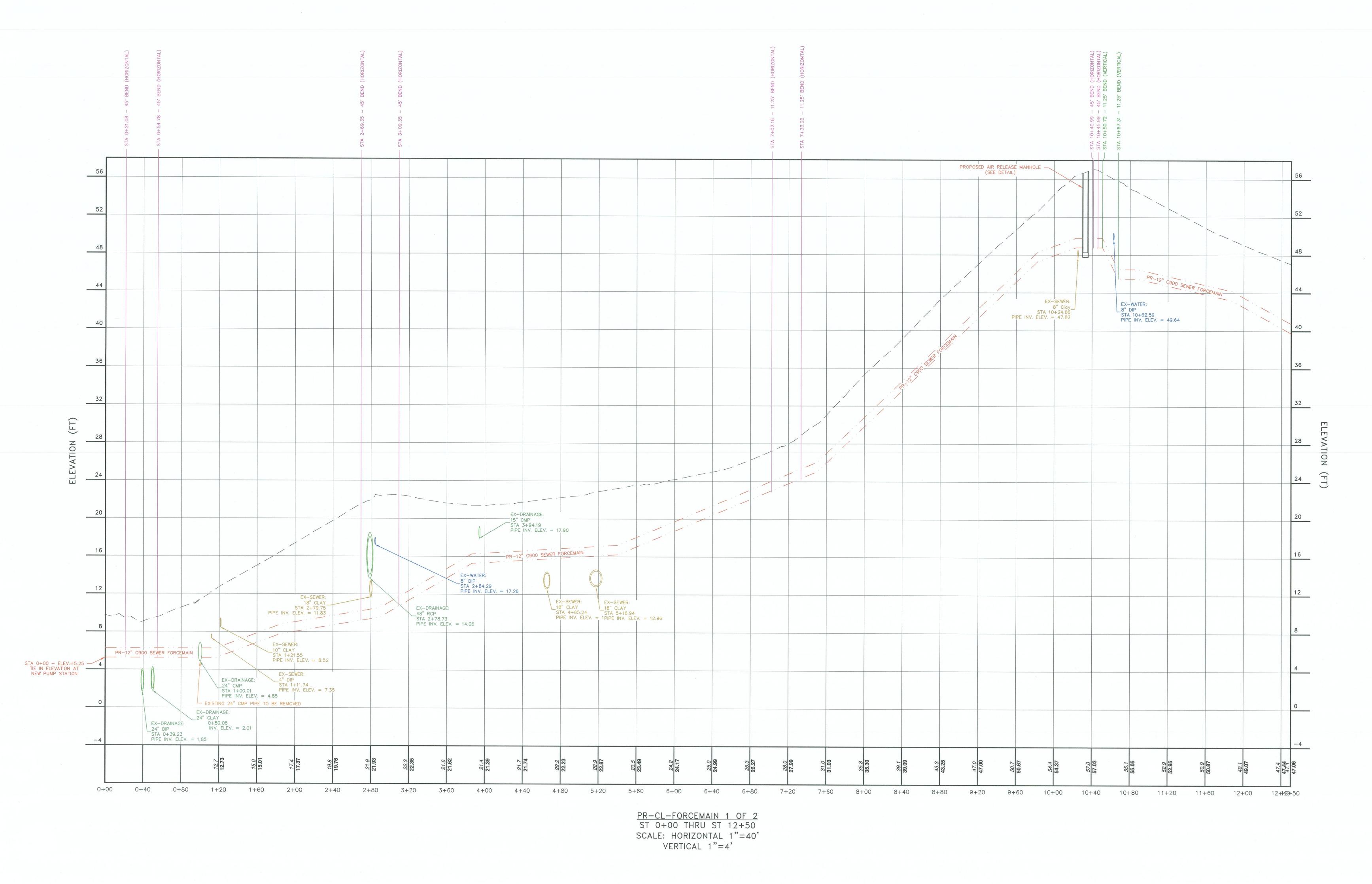
PMV, MJR

CALE: NO SCALE

E-105 SHEET 19 OF 24



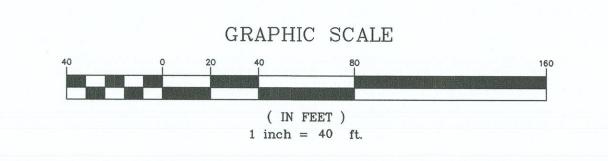




COPIES FROM THE ORIGINAL OF THIS DOCUMENT NOT MARKED WITH AN ORIGINAL OF THE PROFESSIONAL ENGINEER'S AND/OR LAND SURVEYOR'S STAMP OR EMBOSSED SEAL SHALL NOT BE CONSIDERED VALID, TRUE COPIES.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209-2 OF THE NEW YORK STATE EDUCATION LAW.





COPYRIGHT 2021, LANC & TULLY, P.C.

LANC & TULLY
ENGINEERING AND SURVEYING, P.C.

FORCE MAIN PROFILE VIEW 1 OF 2
PREPARED FOR

WEST MAIN STREET
PUMP STATION
AND FORCE MAIN

CITY OF BEACON
DUTCHESS COUNTY, NEW YORK

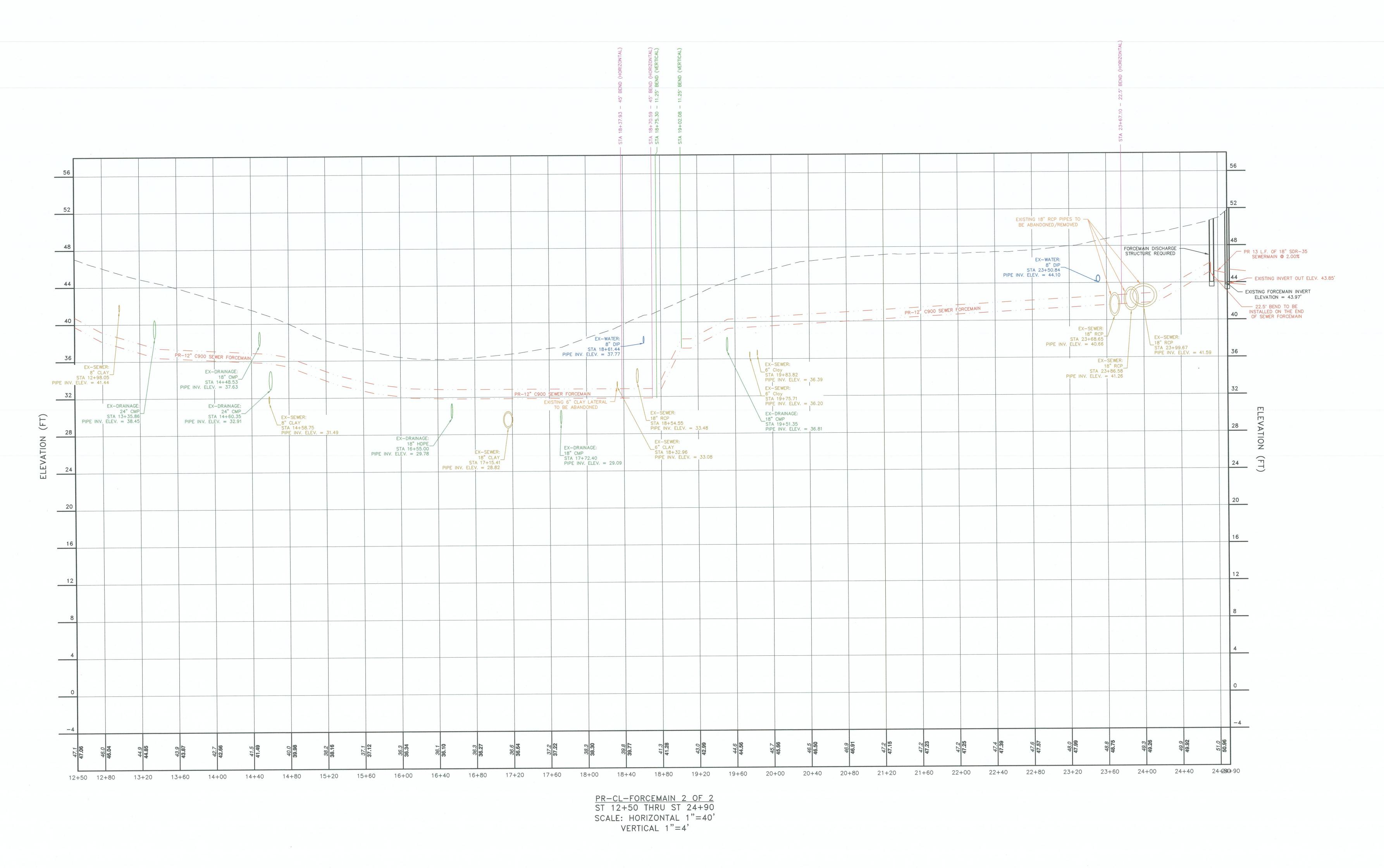
Praving No.:

CAD File:
17,5800-PIPE NETWORK DWG
Layout:
POFFILE VIEW 1 OF 2
Sheet No.:
22 OF 24

Drawn By:
SPS

Checked By:
Seale:
1" = 40'

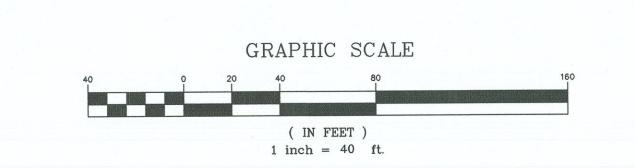
Tax Map No.:
Drawing No.:
C3D
A - 17 - 5800 - 04

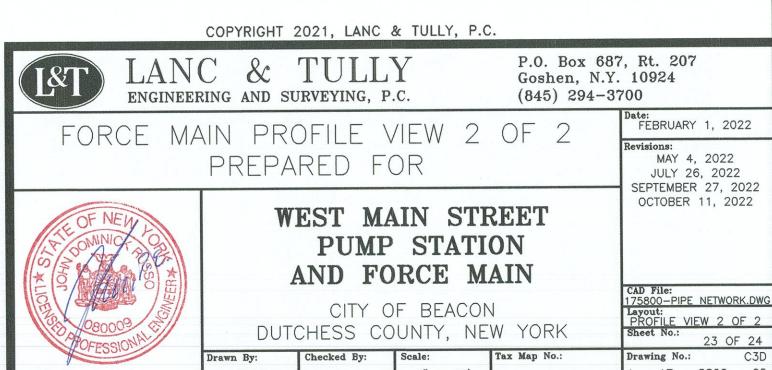


COPIES FROM THE ORIGINAL OF THIS DOCUMENT NOT MARKED WITH AN ORIGINAL OF THE PROFESSIONAL ENGINEER'S AND/OR LAND SURVEYOR'S STAMP OR EMBOSSED SEAL SHALL NOT BE CONSIDERED VALID,

TRUE COPIES. UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209-2 OF THE NEW YORK STATE EDUCATION LAW.







DUTCHESS COUNTY, NEW YORK

1" = 40'

A - 17 - 5800 - 05

