



**RISER DIAGRAM PLAN NOTES**

- PROVIDE 150A-3P, 208/120-3ø-4W, NEMA 4 PANEL, 30 POLE MINIMUM, WITH 150A-3P MAIN CIRCUIT BREAKER. PROVIDE UNISTRUT MOUNTING FRAME BOLTED TO EXTERIOR OF TANK WALL (DO NOT FULLY PENETRATE TANK WALL). PROVIDE (3) 6" CU CLAD STEEL GROUND RODS INTERCONNECTED WITH 2/0 BARE CU CONDUCTOR, EXOTHERMICALLY WELDED. PROVIDE #6 BARE CU SERVICE ENTRANCE GROUND FROM COUNTERPOISE TO NEW PANEL.
- PROVIDE BRANCH CIRCUITS UTILIZING LIQUIDTITE CONDUIT TO ADJACENT CONTROLLERS ACCORDING TO PANEL SCHEDULE. PROVIDE WEATHERPROOF WHILE IN USE 20A DUPLEX GFI RECEPTACLE AND PROVIDE BRANCH CIRCUIT ACCORDING TO PANEL SCHEDULE UTILIZING LIQUIDTITE CONDUIT.
- PROVIDE (2) 2" SCH40 PVC CONDUIT UNDERGROUND FROM PUMP STATION TO RISER POLE AS DEPICTED. (1) CONDUIT SHALL BE FOR POWER WITH 4#1/0 TERMINATED AT PANEL MAIN CIRCUIT BREAKER AND THE OTHER END PROVIDED WITH 10' SLACK CONDUCTOR FOR TERMINATION BY DIM APPROX. 25' UP RISER POLE. (1) CONDUIT SHALL BE MADE SPARE AND DAYLIGHTED AT BOTH ENDS AND PROVIDED WITH THREADED CAPS. SEE GENERAL NOTES FOR TRENCHING AND BACKFILLING REQUIREMENTS.
- EXISTING RISER POLE TO REMAIN.
- PROVIDE 4#6, 1#8 GND. IN 1" CONDUIT FROM EXISTING 60A-3P WP FDS ON WALL OF BUILDING TO CONTROLLER MOUNTED ADJACENT. PROVIDE (3) 1" C., EACH WITH 4#10, 1#10 GND FROM CONTROLLER, DOWN WALL, UNDERGROUND TO TANK. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ALL TERMINATIONS AT EQUIPMENT SUPPLIER'S DIRECTION.

**SITE PLAN GENERAL NOTES**

- ALL CONDUCTORS MUST HAVE A MEGGER TEST PERFORMED BY THE CONTRACTOR PRIOR TO CONNECTION. COORDINATE WITH SRM FOR WEATHER.
- THE CONTRACTOR MUST OBTAIN A DIGGING PERMIT FROM SRM IN ADDITION TO ANY PA ONECALL REQUIREMENTS AT LEAST ONE WEEK IN ADVANCE OF ANY EXCAVATION.
- ALL UNDERGROUND TERMINATIONS MUST BE APPROVED BY SRM PRIOR TO ANY BACKFILLING WORK.
- ALL CONDUIT UNDERGROUND CONDUIT SHALL BE SCH40 PVC UNTIL THE ELBOW AT RISER. THE ELBOW AND RISER CONDUIT SHALL BE RGS AND EITHER TERMINATED IN BOX OR PROVIDED WITH A THREADED CAP IF SPARE.
- CONDUIT SHALL BE OFFSET FROM POLE ON UNISTRUT FRAME APPROX 6" AND SHALL BE RGS UP 10' ABOVE GRADE WHERE IT CAN TRANSITION TO SCH40PVC UNTIL THE FINAL HEIGHT OF APPROX 25' AND SHALL BE TERMINATED WITH A WEATHERHEAD. PROVIDE AT LEAST 10' OF SLACK CONDUCTOR FROM WEATHERHEAD FOR TERMINATION BY DIM.
- ALL CONDUIT SHALL BE 36" BELOW GRADE TO THE TOP OF THE CONDUIT. CONDUIT SHALL HAVE AT LEAST 4" OF TAMPED STONE DUST BENEATH THE CONDUIT AND UP TO 4" OF TAMPED STONE DUST ABOVE THE CONDUIT. BACKFILL IN 12" LIFTS AND TAMP. PROVIDE WARNING TAPE AND #12 CU TRACING WIRE (GREEN INSULATION) 6" BELOW FINISH GRADE. PROVIDE 6" OF 2B GRAVEL TO FINISH GRADE. ALL BLACKTOP WORK SHALL BE REPAIRED AND/OR INSTALLED BY G.C.
- WHERE CONDUIT IS PLACED UNDER DRIVING PATHS, PARKING AREAS, OR UNDER ANY BLACKTOP SURFACE, THE CONDUITS SHALL BE CONCRETE ENCASED TO 5' OUTSIDE DRIVING AREA (WHERE PRACTICAL). THE CONDUIT SHALL BE 36" BELOW GRADE TO THE TOP OF THE 4" CONCRETE ENVELOPE THAT SURROUNDS CONDUIT ON ALL SIDES. PROVIDE 4" OF TAMPED STONE DUST AT BOTTOM OF TRENCH AND PLACE CONDUIT SPACERS TO SUPPORT CONDUIT APPROX 4" ABOVE STONE DUST. FILL WITH CONCRETE UNTIL 4" ABOVE TOP OF CONDUIT. BACKFILL IN 12" LIFTS AND TAMP. PROVIDE WARNING TAPE AND #12 CU TRACING WIRE (GREEN INSULATION) 6" BELOW FINISH GRADE. PROVIDE 6" OF 2B GRAVEL TO FINISH GRADE. ALL BLACKTOP WORK SHALL BE REPAIRED AND/OR INSTALLED BY G.C.
- ALL CONDUCTORS SHALL BE COPPER (CU) WITH THHN/THWN INSULATION, 600V RATED.
- ALL CONDUIT SHALL BE PVC UNLESS NOTED OTHERWISE (UNO).
- ALL CONCRETE SHALL BE 3000 PSI AS PER THE GENERAL SPECIFICATIONS.

NOTE	CIRCUIT	NEW PANEL: 'P1' 10K AIC VOLTAGE: 208/120V-3ø-4W						EQUIPMENT	CIRCUIT	NOTE
		EQUIPMENT	BREAKER	FEEDER	#A AMPS	#B AMPS	#C AMPS			
	1				45.7/17.5				2	
	3	PUMP CONTROLLER	60A-3P	4#6, 1#8 GND 1" C.			45.7/17.5	4#6, 1#8 GND 1" C.	4	
	5	(2) 2 HP GRINDER PUMPS							6	
	7	MAINTENANCE OUTLET	20A-1P	2#12 W/G	5.0	0		20A-1P	8	
	9	CONTROLS	20A-1P	2#12 W/G		5.0	0	20A-1P	10	
	11	SPARE	20A-1P				0	20A-1P	12	
	13	SPARE	20A-1P		0	0		20A-1P	14	
	15	SPARE	20A-1P			0	0	20A-1P	16	
	17	SPARE	20A-1P				0	20A-1P	18	
	19	BUSSED SPACE			0	0		BUSSED SPACE	20	
	21	BUSSED SPACE				0	0	BUSSED SPACE	22	
	23	BUSSED SPACE					0	BUSSED SPACE	24	
	25	BUSSED SPACE			0	0		BUSSED SPACE	26	
	27	BUSSED SPACE				0	0	BUSSED SPACE	28	
	29	BUSSED SPACE					0	BUSSED SPACE	30	
NOTES:		TOTAL CONNECTED AMPS/LEG		69		69		64		
1. XXXX										
2. XXXX										

**PROPOSED SEWER MAIN ELECTRICAL**  
 SCALE: 1" = 50'  
 SCALE IN FEET

NO.	DESCRIPTION	DATE
REVISIONS		
Professional's Signature _____ Date _____		
COMMONWEALTH OF PENNSYLVANIA DEPT. OF MILITARY & VETERAN'S AFFAIRS ANNVILLE, PENNSYLVANIA 17003		
DESIGN PROFESSIONALS: OFFICE OF FACILITIES AND ENGINEERING BUREAU OF DESIGN AND PROJECT MANAGEMENT BLDG. 0-10 FORT INDIANTOWN GAP ANNVILLE, LEBANON COUNTY, PENNSYLVANIA		
PROJECT NO.:		42190185 & 42190186
AREA 11 SEWER SYSTEM AREA 11 SEWER LIFT STATION FORT INDIANTOWN GAP LEBANON COUNTY, ANNVILLE PA		
LIFT STATION ELECTRICAL		
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.	DRAWN BY B. BARGER	DATE 3/15/23
VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING. IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.	CHECKED BY D. HEALEY	SCALE AS NOTED
		DRAWING NO. E.1.0