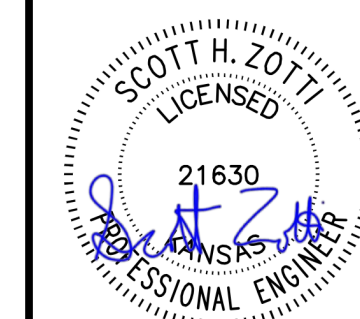




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Digitally Signed 11/18/2019

BY	DESCRIPTION	DATE	REV.



CITY OF WICHITA
 WICHITA, KANSAS
 Consolidation of Lift Stations
 Near 151st St. & W. Kellogg

WET WELL ELEVATION AND MPZ01 PANEL SCHEDULE

JOB NO.: 17264967
 DATE: NOV. 2019
 DESIGNED BY: MTD
 DRAWN BY: MTD

BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
E4

SHEET NUMBER **17** OF **36**

SET	WIRE	NEUT	GND	COND.	LOAD AMPS	DESCRIPTION	NOT BREAKER	POLE	AMP	CT. #	CT. #	AMP	POLE	NOT DESCRIPTION	LOAD AMPS	SET	WIRE	NEUT	GND	COND.	
1	#12	#12	#12	3/4"	4.5	RECEPT	1	20	1	A	2	15	1	LIGHTING	0.4	1	#12	#12	#12	3/4"	
1	#12	#12	#12	3/4"	1.5	EXHASUT FAN	1	20	3	B	4	15	1	PLC/RTU PANEL	1.7	1	#12	#12	#12	3/4"	
1	#12	#12	#12	3/4"	15.0	GENERATOR BLOCK HTR	1	20	5	A	6	20	1	AC UNIT	8.3	1	#12	#12	#12	3/4"	
1	#12	#12	#12	3/4"	1.5	GENERATOR BATT.	1	20	7	B	8	20	1	SPARE							
						SPARE	1	20	9	A	10	20	1	SPARE							

LOAD SUMMARY	CON	KVA	%	DEM	KVA
RECEPTACLES	0.54		code	0.54	
MOTORS	0.18	100%		0.18	
LIGHTS (INT.)	0	125%		0	
LIGHTS (EXT.)	0.25	125%		0.3125	
HVAC (HEAT)	0	100%		0	
HVAC (COOL)	1	100%		1	
VENTILATION	0	100%		0	
KITCHEN	0	65%		0	
EMERGENCY	0	100%		0	
MISC.	0	100%		0	
FUTURE	0	100%		0	
OTHER	1.98	100%		1.98	
TRACK	0	100%		0	
LARGEST MTR	0	25%		0	
TOTAL KVA	4			4	
TOTAL AMPS	16			17	

CIRCUIT	LOAD DESCRIPTION	NOT BREAKER	CT. #	CT. #	AMP	POLE	NOT DESCRIPTION	LOAD AMPS	SET	WIRE	NEUT	GND	COND.	
1	RECEPT	1	20	1	A	2	15	1	LIGHTING	0.4	1	#12	#12	3/4"
1	EXHASUT FAN	1	20	3	B	4	15	1	PLC/RTU PANEL	1.7	1	#12	#12	3/4"
1	GENERATOR BLOCK HTR	1	20	5	A	6	20	1	AC UNIT	8.3	1	#12	#12	3/4"
1	GENERATOR BATT.	1	20	7	B	8	20	1	SPARE					
	SPARE	1	20	9	A	10	20	1	SPARE					

LOAD SUMMARY	CON	KVA	%	DEM	KVA
RECEPTACLES	0.54		code	0.54	
MOTORS	0.18	100%		0.18	
LIGHTS (INT.)	0	125%		0	
LIGHTS (EXT.)	0.25	125%		0.3125	
HVAC (HEAT)	0	100%		0	
HVAC (COOL)	1	100%		1	
VENTILATION	0	100%		0	
KITCHEN	0	65%		0	
EMERGENCY	0	100%		0	
MISC.	0	100%		0	
FUTURE	0	100%		0	
OTHER	1.98	100%		1.98	
TRACK	0	100%		0	
LARGEST MTR	0	25%		0	
TOTAL KVA	4			4	
TOTAL AMPS	16			17	

PANEL NOTES:
 1. PROVIDE GROUND BUS
 2. PROVIDE FULL SIZE NEUTRAL BUS UNLESS NOTED OTHERWISE

MPZ01 PANEL SCHEDULE
 SCALE: NONE

KEY NOTES:

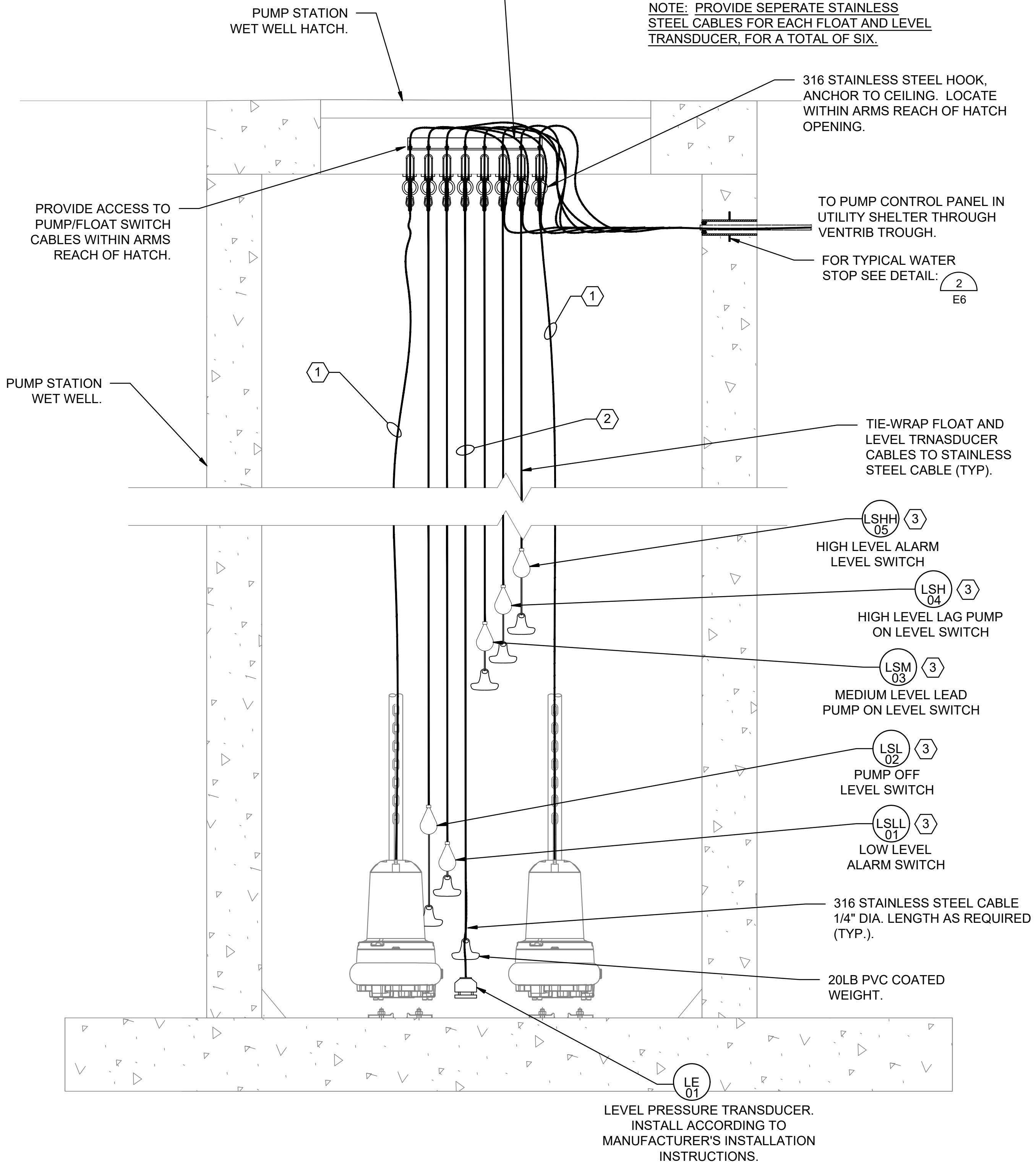
- 1 MANUFACTURER'S SUPPLIED PUMP CORDS FROM WET WELL TO VENTRIB TROUGH.
- 2 MANUFACTURER'S SUPPLIED CABLE FOR LEVEL TRANSDUCER AND FLOAT SWITCHES TO VENTRIB TROUGH.
- 3 COORDINATE FLOAT LEVEL SWITCH MOUNTING HEIGHTS WITH OWNER AND ENGINEER. SEE SHEET C7 FOR FLOAT SWITCH ELEVATIONS. PROVIDE INTRINSICALLY SAFE CONNECTION AT PUMP CONTROL PANEL.

GENERAL NOTES:

- 1. ALL BELOW GRADE CONDUIT FROM THE WET WELL TO THE ELECTRICAL ENCLOSURE SHALL BE PVC COATED RIGID STEEL.
- 2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, WIRING, TERMINATIONS, DISCONNECTS, CONTROL RELAYS, CONTROL ENCLOSURES AND OTHER ITEMS AS NECESSARY FOR COMPLETE AND FUNCTIONAL PUMP STATION. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND OTHER SECTIONS OF THE PLANS FOR ITEMS AS MAY BE REQUIRED.
- 3. COORDINATE ALL CONDUIT ROUTING WITH ENGINEER PRIOR TO INSTALLATION.
- 4. ALL LOCATIONS WITHIN THE WET WELL AND METER VAULT AS INDICATED ON THIS PLAN SHEET SHALL BE CONSIDERED A CLASS 1, DIVISION 2 HAZARDOUS LOCATION AS DEFINED IN ACCORDANCE WITH NFPA 820.
- 5. CONTRACTOR SHALL STRICTLY ADHERE TO THE REQUIREMENTS IN NFPA 70, ARTICLE 500, HAZARDOUS (CLASSIFIED) LOCATIONS FOR ALL AREAS REFERENCED IN THE NOTE ABOVE. THIS INCLUDES PROVIDING APPROPRIATE SEAL FITTINGS ON CONDUITS AND CABLES ALONG WITH PROVIDING EXPLOSION PROOF EQUIPMENT, RATED FOR THE CLASSIFICATION REFERENCED ABOVE, WITHIN THE HAZARDOUS AREA IF LOCATED IN THE HAZARDOUS AREA.

CONTRACTOR SHALL PROVIDE STAINLESS STEEL SUPPORT, MESH SUPPORTS AND CORD GRIP CONNECTORS FOR STRAIN RELIEF OF EACH PUMP, FLOAT AND LEVEL TRANSDUCER CABLE.

NOTE: PROVIDE SEPERATE STAINLESS STEEL CABLES FOR EACH FLOAT AND LEVEL TRANSDUCER, FOR A TOTAL OF SIX.



WET WELL ELEVATION DIAGRAM
 SCALE: NONE

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