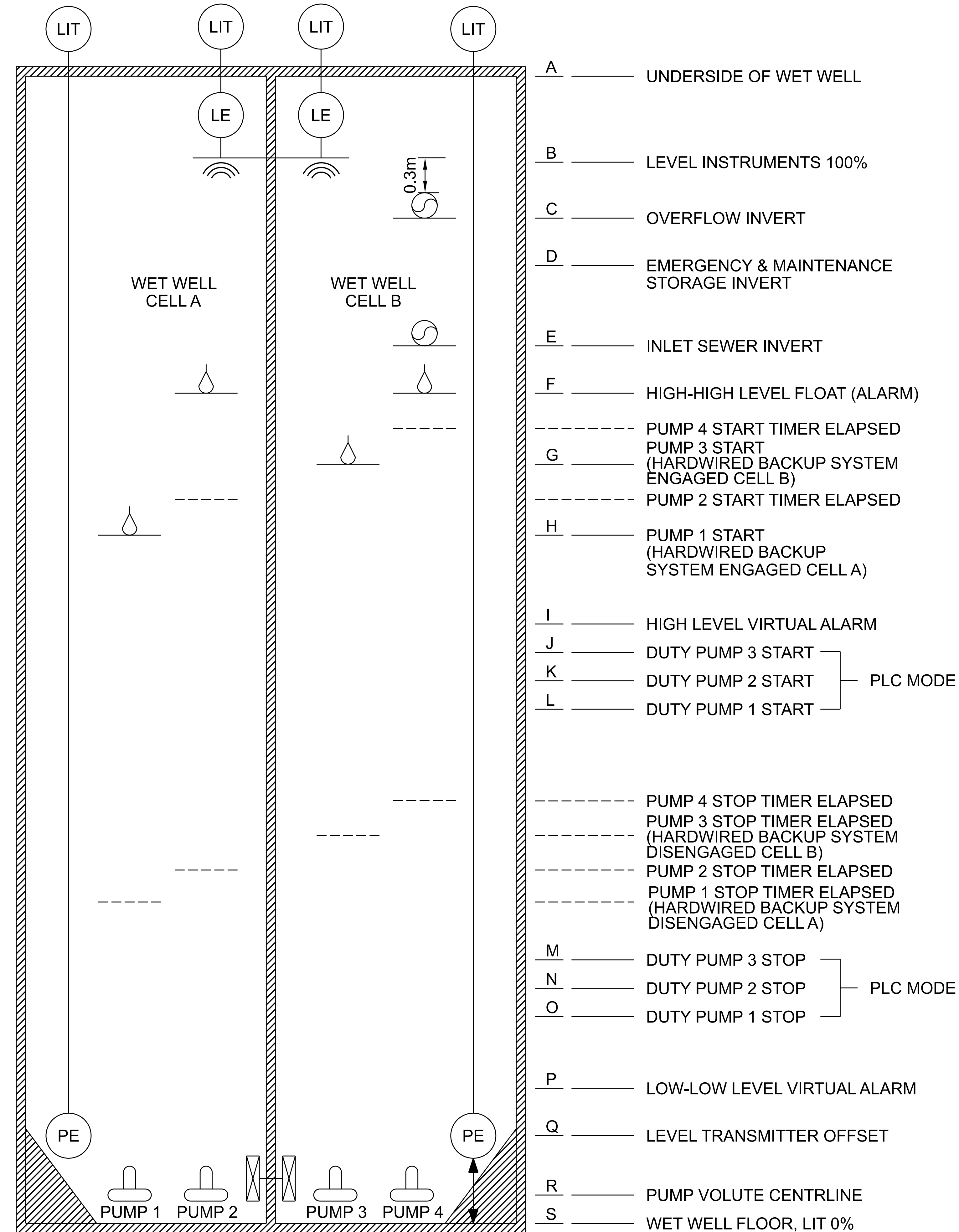


TYPE OF CONTROL/ALARM	DESCRIPTION	LABEL	SETTINGS
	UNDERSIDE OF WET WELL	A	
	LEVEL INSTRUMENTS 100%	B	0.3m ABOVE OVERFLOW PIPE OBVERT
ALARM	OVERFLOW INVERT FLOAT	C	SEE NOTE 4
ALARM	EMERGENCY/MAINTENANCE STORAGE INVERT FLOAT	D	SEE NOTE 3
	INLET SEWER INVERT	E	
ALARM	HIGH-HIGH LEVEL FLOAT	F	E - 0.2m
BACKUP SYSTEM HARDWIRED WITH MULTIPLE TIMERS	HIGH LEVEL FLOAT (STAGGERED PUMP START AND STOP)	G	F - 0.15m
		H	G - 0.15m
		I	H - 0.1m
MASTER LIT	HIGH LEVEL VIRTUAL ALARM	J	I - 0.15m
PLC MODE (MASTER LIT)	DUTY 3 PUMP START	K	J - 0.15m
		L	K - 0.15m
		M	N + 0.15m
PLC MODE (MASTER LIT)	DUTY 3 PUMP STOP	N	O + 0.15m
		O	P + 0.2m
		P	MIN. R + 0.5m
MASTER LIT	LOW-LOW LEVEL VIRTUAL ALARM	Q	MAX. P - 0.1m MIN. S + 0.3m
	LEVEL TRANSMITTER OFFSET	R	
	PUMP VOLUTE CENTRELINE	S	
	WET WELL FLOOR, LIT 0%		

**NOTES:**

1. PLC MODE MEANS PROGRAMMABLE AUTO CONTROL.
2. ALL SETTINGS ARE COMMON FOR BOTH WET WELLS UNLESS OTHERWISE NOTED.
3. EMERGENCY/MAINTENANCE STORAGE ALARM FLOAT IN UPSTREAM MAINTENANCE HOLE. INVERT SHALL SET AT LEAST 0.5m BELOW THE LOWEST BASEMENT ELEVATION OR 0.5m BELOW THE UNDERSIDE OF THE WET WELL, WHICHEVER IS LOWER.
4. OVERFLOW FLOAT LOCATED IN EMERGENCY/MAINTENANCE STORAGE TANK.
5. HARDWIRED CONTROLS SHALL INCLUDE MULTIPLE TIMERS SUCH THAT PUMPS STARTS AND STOPS ARE STAGGERED.
6. ALL LEVEL SENSORS CONFIGURED WITH OFFSET SUCH THAT 0% MATCHES WET WELL FLOOR.
7. VIRTUAL OVERFLOW, EMERGENCY/MAINTENANCE STORAGE, HIGH AND HIGH-HIGH ALARMS TO BE SET 0.1m BELOW HARDWIRED FLOAT LEVELS.
8. HARDWIRED FLOATS ONLY CONTROL PUMPS IN EACH ASSOCIATED WET WELL CELL.
9. ALL DIMENSIONS ARE IN METRES.
10. FOURTH PUMP IS CONSIDERED BACKUP AND THEREFORE NOT INCLUDED WITHIN THE PLC MODE DUTY TABLE, HOWEVER IT CAN OPERATE ON FLOATS.
11. REFER TO INSTRUMENTATION DRAWINGS FOR MORE INFORMATION.
12. REFER TO SEWAGE PUMPING STATION STANDARD FOR PUMP CYCLE REQUIREMENTS.
13. THE MINIMUM DIFFERENCE BETWEEN NORMAL PUMP START AND STOP SETPOINTS SHALL BE 0.5m.



**PUBLIC WORKS  
STANDARD DRAWING**

REV. DATE: MAY 2022

APPROVED BY  
MNB

DRAWN BY  
GM BluePlan

**SEWAGE PUMPING STATION  
WET WELL OPERATING LEVELS**

STD. DWG. NUMBER  
SPS-107

SCALE  
Not to Scale