

UNDERSIDE OF WET WELL

LEVEL INSTRUMENTS 100%

OVERFLOW INVERT

EMERGENCY & MAINTENANCE STORAGE INVERT

INLET SEWER INVERT

HIGH-HIGH LEVEL FLOAT (ALARM)

PUMP 4 START TIMER ELAPSED **PUMP 3 START** (HARDWIRED BACKUP SYSTEM ÈNGAGED CELL B) PUMP 2 START TIMER ELAPSED

PUMP 1 START (HARDWIRED BACKUP SYSTEM ENGAGED CELLA)

HIGH LEVEL VIRTUAL ALARM DUTY PUMP 3 START -

- **DUTY PUMP 2 START** PLC MODE DUTY PUMP 1 START —
- PUMP 4 STOP TIMER ELAPSED
- PUMP 3 STOP TIMER ELAPSED (HARDWIRED BACKUP SYSTEM DISENGAGED CELL B) PUMP 2 STOP TIMER ELAPSED PUMP 1 STOP TIMER ELAPSED
- (HARDWIRED BACKUP SYSTEM DISENGAGED CELLA) DUTY PUMP 3 STOP —
- DUTY PUMP 2 STOP
- PLC MODE
- LOW-LOW LEVEL VIRTUAL ALARM

LEVEL TRANSMITTER OFFSET

PUMP VOLUTE CENTRLINE WET WELL FLOOR, LIT 0%

TYPE OF CONTROL/ALARM	DESCRIPTION	LABEL	SETTINGS
	UNDERSIDE OF WET WELL	А	
	LEVEL INSTRUMENTS 100%	В	0.3m ABOVE OVERFLOW PIPE OBVERT
ALARM	OVERFLOW INVERT FLOAT	С	SEE NOTE 4
ALARM	EMERGENCY/MAINTENANCE STORAGE INVERT FLOAT	D	SEE NOTE 3
	INLET SEWER INVERT	Е	
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
		Н	G - 0.15m
MASTER LIT	HIGH LEVEL VIRTUAL ALARM	Ι	H - 0.1m
PLC MODE (MASTER LIT)	DUTY 3 PUMP START	J	I - 0.15m
	DUTY 2 PUMP START	K	J - 0.15m
	DUTY 1 PUMP START	L	K - 0.15m
PLC MODE (MASTER LIT)	DUTY 3 PUMP STOP	Μ	N + 0.15m
	DUTY 2 PUMP STOP	Ν	O + 0.15m
	DUTY 1 PUMP STOP	0	P + 0.2m
MASTER LIT	LOW-LOW LEVEL VIRTUAL ALARM	Р	MIN. R + 0.5m
	LEVEL TRANSMITTER OFFSET	Q	MAX. P - 0.1m MIN . S + 0.3m
	PUMP VOLUTE CENTRELINE	R	
	WET WELL FLOOR, LIT 0%	S	

NOTES:

- PLC MODE MEANS PROGRAMMABLE AUTO CONTROL.
- ALL SETTINGS ARE COMMON FOR BOTH WET WELLS UNLESS OTHERWISE NOTED. 2.
- 3. WELL, WHICHEVER IS LOWER.
- OVERFLOW FLOAT LOCATED IN EMERGENCY/MAINTENANCE STORAGE TANK. 4.
- 5. STAGGERED.
- 6. 7.
- **BELOW HARDWIRED FLOAT LEVELS.** HARDWIRED FLOATS ONLY CONTROL PUMPS IN EACH ASSOCIATED WET WELL CELL 8.
- ALL DIMENSIONS ARE IN METRES. 9.
- 10. FOURTH PUMP IS CONSIDERED BACKUP ANI HOWEVER IT CAN OPERATE ON FLOATS.
- 11. REFER TO INSTRUMENTATION DRAWINGS F
- 12. REFER TO SEWAGE PUMPING STATION STAN
- 13. THE MINIMUM DIFFERENCE BETWEEN NORM



PUBLIC STANDAR

SEWAGE PUMPING STAT WET WELL OPERATING LE

D THEREFORE NOT INCLUDED WITHIN THE PLC MODE DUTY TABLE,					
OR MORE INFORMATION. NDARD FOR PUMP CYCLE REQUIREMENTS. MAL PUMP START AND STOP SETPOINTS SHALL BE 0.5m.					
	REV. DATE: MAY 2022				
J DRAWING	APPROVED BY	DRAWN BY			
	MNB	GM BluePlan SCALE Not to Scale			
EVELS	STD. DWG. NUMBER SPS-107				

ALL LEVEL SENSORS CONFIGURED WITH OFFSET SUCH THAT 0% MATCHES WET WELL FLOOR. VIRTUAL OVERFLOW, EMERGENCY/MAINTENACE STORAGE, HIGH AND HIGH-HIGH ALARMS TO BE SET 0.1m

HARDWIRED CONTROLS SHALL INCLUDE MULTIPLE TIMERS SUCH THAT PUMPS STARTS AND STOPS ARE

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