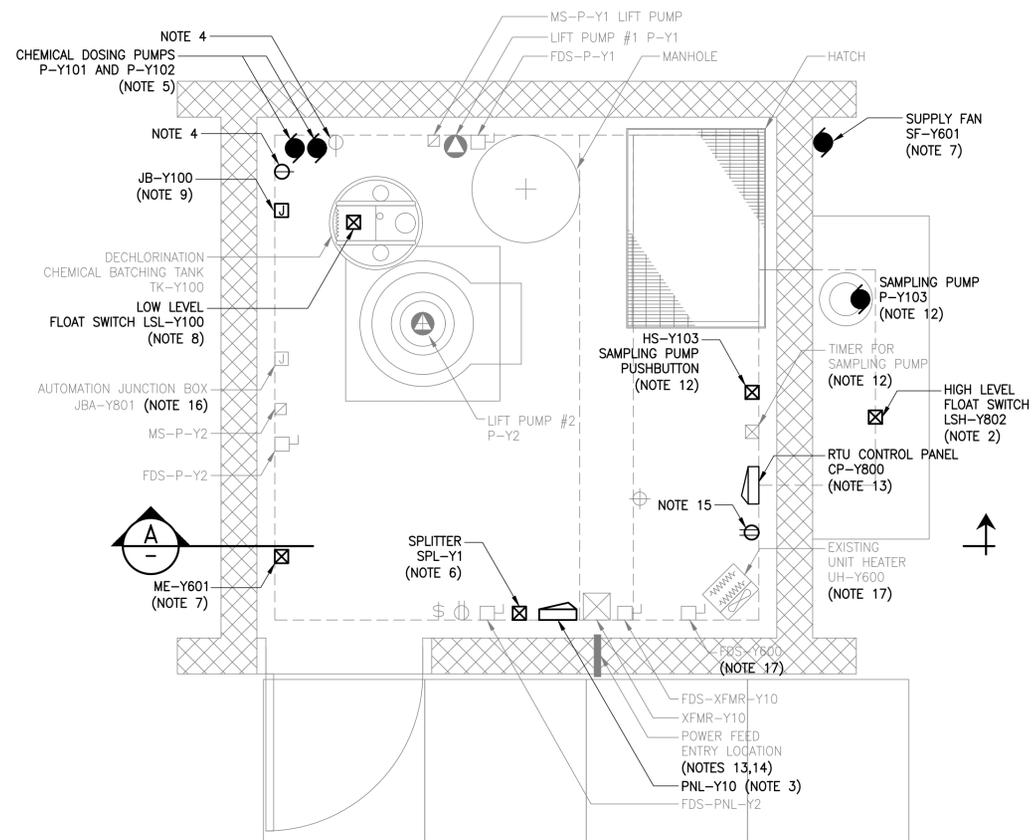
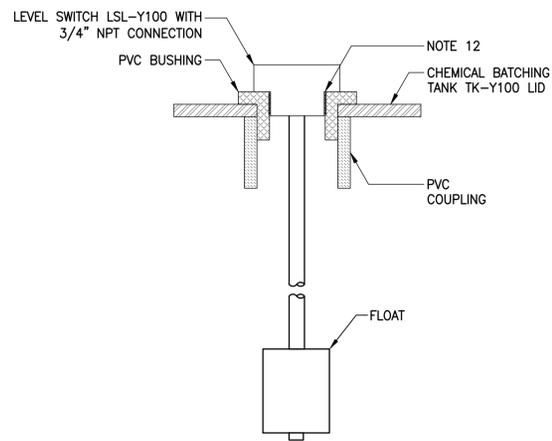


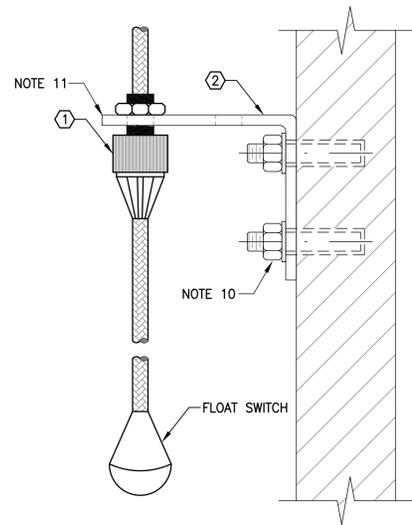
A1 SIZE - 594mm x 841mm



**1 PLAN - DRAINAGE LIFT STATION**  
 0650A-E0003 SCALE: 1:20

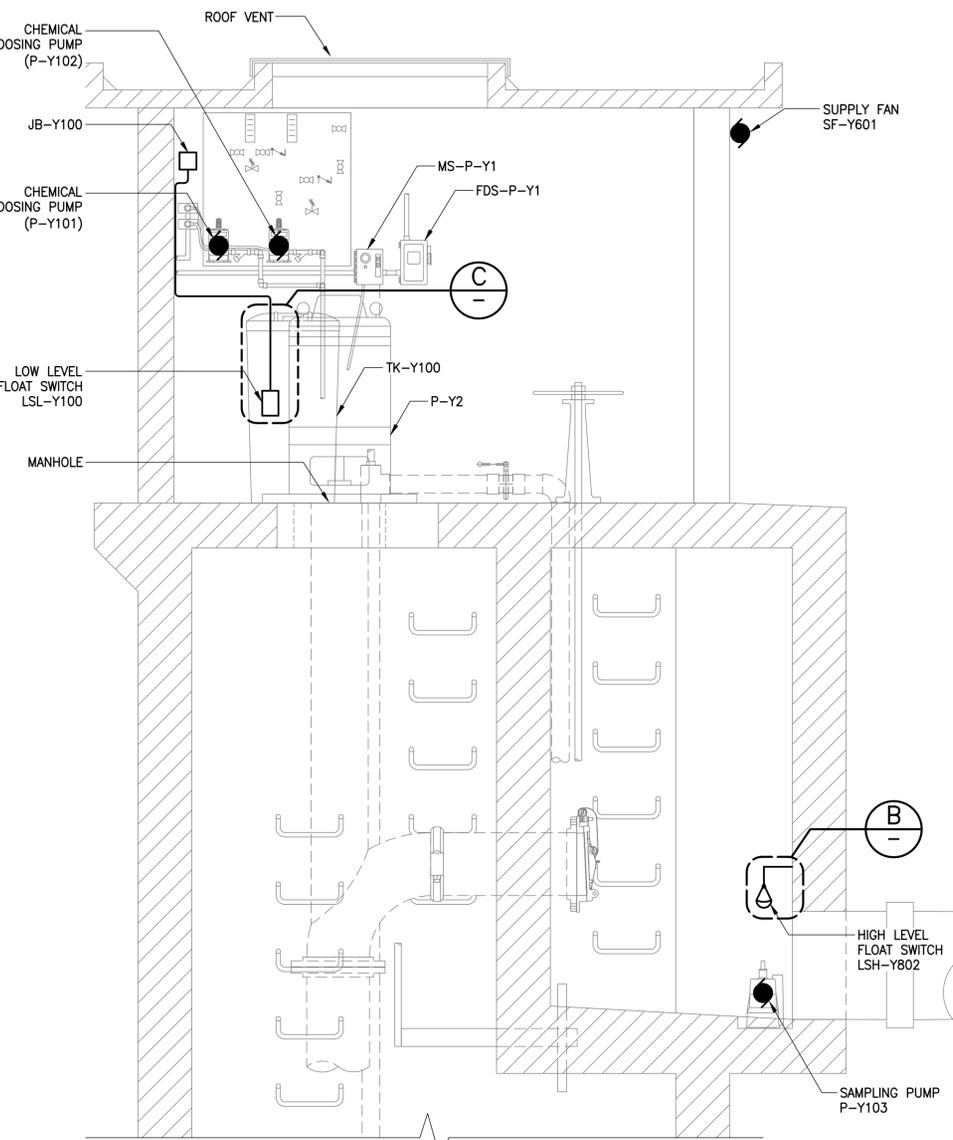


**C LSL - Y100 MOUNTING DETAIL**  
 SCALE: N.T.S.



SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	CATALOGUE NUMBER
①	NONMETALLIC LIQUIDTIGHT STRAIN RELIEF FITTING	B-LINE	-
②	FOUR HOLE CORNER ANGLE	B-LINE	B104-SS6

**B LSH - Y802 MOUNTING DETAIL**  
 SCALE: N.T.S.



**A SECTION**  
 SCALE: 1:20

**NOTES:**

- GREY ITEMS DENOTES EXISTING EQUIPMENT, BOLD ITEMS DENOTES NEW EQUIPMENT.
- SUPPLY AND INSTALL A HIGH LEVEL FLOAT SWITCH LSH-Y802. HIGH LEVEL ALARM ELEVATION SHALL BE AT THE TOP OF THE DISCHARGE PIPE. COORDINATE AND CONFIRM MOUNTING LOCATION WITH THE CONTRACT ADMINISTRATOR. CONNECT THE NEW HIGH LEVEL FLOAT SWITCH LSH-Y802 TO THE NEW RTU CONTROL PANEL CP-Y800 AS PER DRAWING 1-0650Y-E0005-001.
- REMOVE EXISTING ELECTRICAL PANELBOARD PNL-Y10 AND REPLACE WITH A NEW ELECTRICAL PANELBOARD PNL-Y10. RELOCATION OF EXISTING CONDUIT OR PANEL RELOCATION MAY BE REQUIRED TO ACCOMMODATE THE LARGER PANEL SIZE. TO BE DETERMINED BY CONTRACTOR. REFER TO DRAWING 1-0650Y-E0004-001 FOR THE PANELBOARD SCHEDULE.
- RELOCATE THE EXISTING SINGLE RECEPTACLE IF REQUIRED FOR THE INSTALLATION OF THE NEW CHEMICAL DOSING PUMPS P-Y101 AND P-Y102 SKID. POWER P-Y101 FROM EXISTING SINGLE RECEPTACLE. SUPPLY AND INSTALL ONE NEW SINGLE RECEPTACLE AND POWER P-Y102 FROM NEW RECEPTACLE.
- INSTALL TWO NEW CHEMICAL DOSING PUMPS P-Y101 AND P-Y102.
- REMOVE EXISTING SPLITTER SPL-Y1 AND REPLACE WITH A NEW SPLITTER SPL-Y1 IN THE SAME LOCATION. RECONNECT ALL EXISTING LOADS.
- INSTALL NEW SUPPLY FAN SF-Y601 AND SUPPLY AND INSTALL A NEW DEHUMIDISTAT ME-Y601 TO CONTROL THE NEW SUPPLY FAN SF-Y601. DEHUMIDISTAT SHALL BE JOHNSON CONTROLS T701DFN-4 OR APPROVED EQUAL IN ACCORDANCE WITH B7. REFER TO MECHANICAL DRAWINGS FOR SUPPLY FAN SF-Y601 INSTALLATION DETAILS. SUPPLY FAN SF-Y601 TO BE FED FROM NEW PANELBOARD PNL-Y10. REFER TO DRAWING 1-0650Y-E0004-001 FOR THE PANELBOARD SCHEDULE.
- SUPPLY AND INSTALL A NEW LOW LEVEL FLOAT SWITCH LSL-Y100. MOUNT LSL-Y100 AS PER MANUFACTURER'S INSTRUCTIONS. DRILL A HOLE IN THE LID OF THE EXISTING CHEMICAL BATCHING TANK TK-Y100 AND MOUNT AS PER DETAIL C. PROVIDE A 3/4" NPT CONNECTION FOR THE NEW LOW LEVEL FLOAT SWITCH LSL-Y100. PVC BUSHING AND COUPLING TO BE SIZED ON-SITE.
- TERMINATE AN M12 CONNECTOR TO THE NEW LOW LEVEL FLOAT SWITCH LSL-Y100 LEADS. SUPPLY AND INSTALL A NEW JUNCTION BOX JB-Y100 COMPLETE WITH A M12 CONNECTOR WIRED TO TERMINAL BLOCKS FOR TERMINATION OF LSL-Y100. PROVIDE NEW TECK90 CABLE FROM THE NEW JUNCTION BOX JB-Y100 TO THE NEW RTU CONTROL PANEL CP-Y800 AS PER DRAWING 1-0650Y-E0005-001.
- ANCHOR THE NEW FOUR HOLE CORNER ANGLE WITH TYPE 316 SS HILTI HAS RODS COMPLETE WITH HILTI HIT-HY200 ADHESIVE. EMBED THE RODS A MINIMUM OF 100MM.
- SLOT HOLE FOR EASE OF INSTALLATION.
- REMOVE EXISTING SAMPLING PUMP AND ASSOCIATED POWER AND CONTROL DEVICES AND WIRING. INSTALL A NEW SAMPLING PUMP P-Y103. SAMPLING PUMP P-Y103 TO BE FED FROM NEW PANELBOARD PNL-Y10. SUPPLY AND INSTALL ON-OFF PUSHBUTTON HS-Y103 TO CONTROL NEW SAMPLING PUMP. REFER TO MECHANICAL DRAWINGS FOR INSTALLATION DETAILS.
- SUPPLY AND INSTALL A NEW RTU CONTROL PANEL CP-Y800 AND PROVIDE POWER FROM THE NEW PNL-Y10 AS PER DRAWING 1-0650Y-E0004-001. THE NEW RTU CONTROL PANEL CP-Y800 TO BE CONNECTED TO THE NEW JUNCTION BOX JB-Y800 LOCATED IN THE MAIN PUMPING STATION VIA NEW BURIED CAT6 CABLE. UTILIZE THE EXISTING POWER FEED ENTRY LOCATION. REFER TO DRAWINGS 1-0650A-E0002-001 AND 1-0650A-E0003-001 FOR DETAILS AND OUTSIDE ALIGNMENT.
- PROVIDE A NEW POWER FEED TO THE NEW SPLITTER SPL-Y1 FROM THE EXISTING JUNCTION BOX JB-BB LOCATED IN THE MAIN PUMPING STATION. UTILIZE THE EXISTING ENTRY LOCATION INTO THE DRAINAGE LIFT STATION. REFER TO DRAWING 1-0650A-E0003-001 FOR OUTSIDE ALIGNMENT.
- PROVIDE NEW 30A 240V RECEPTACLE FED FROM NEW PANEL PNL-Y10. REFER TO DRAWING 1-0650Y-E0004-001 FOR THE PANELBOARD SCHEDULE.
- MODIFY WIRING IN AUTOMATION JUNCTION BOX JBA-Y801 TO INTERLOCK EXISTING CHEMICAL DOSING PUMP P-Y101 RECEPTACLE WITH EXISTING LIFT PUMP P-Y1 CONTROL CIRCUIT. THE RECEPTACLE SHALL BE ENERGIZED WHEN P-Y1 IS RUNNING. MODIFY WIRING IN AUTOMATION JUNCTION BOX JBA-Y801 TO INTERLOCK NEW CHEMICAL DOSING PUMP P-Y102 RECEPTACLE WITH EXISTING LIFT PUMP P-Y2 CONTROL CIRCUIT. THE RECEPTACLE SHALL BE ENERGIZED WHEN P-Y2 IS RUNNING. SUPPLY AND INSTALL ADDITIONAL AUXILIARY RELAYS AND CONTACTS IN AUTOMATION JUNCTION BOX JBA-Y801 AS REQUIRED.
- SUPPLY AND INSTALL NEW MECHANICALLY FASTENED LAMACOIDS FOR EXISTING EQUIPMENT.

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	-	-
9	-	-
8	-	-
7	-	-
6	1-0650Y-E0005-001	ELECTRICAL - DRAINAGE LIFT STATION - CP-Y800 SCHEMATIC AND CONNECTION DIAGRAM
5	1-0650Y-E0004-001	ELECTRICAL - DRAINAGE LIFT STATION - PANELBOARD SCHEDULE
4	1-0650Y-E0001-001	ELECTRICAL - DRAINAGE LIFT STATION - SINGLE LINE DIAGRAM
3	1-0650A-E0003-001	ELECTRICAL - PARTIAL SITE PLAN
2	1-0650A-E0002-001	AUTOMATION - NETWORK DIAGRAM
1	1-0650A-D0001-001	COVER SHEET
REFERENCE DRAWINGS		



B.M. -	ELEV. -	<b>KGS GROUP</b>	ENGINEER'S SEAL
DESIGNED BY: I. BECK			CHECKED BY: J. BOUCHARD
DRAWN BY: J. deLEON		APPROVED BY: J. BOUCHARD	
SCALE: AS NOTED		ISSUED FOR CONSTRUCTION	
DATE: 2020-06-18		DATE:	
CONSULTANT NO.: 19-0107-005_E06		DATE: 2020/06/18	
NO. REVISIONS	DATE	DESIGN	CHECK

<b>THE CITY OF WINNIPEG</b> WATER AND WASTE DEPARTMENT		
HURST PUMPING STATION STRUCTURAL REPAIRS AND DRAINAGE BUILDING UPGRADES ELECTRICAL DRAINAGE LIFT STATION POWER & INSTRUMENT PLAN AND DETAILS		
CITY DRAWING NUMBER	SHEET	REV. SIZE
1-0650Y-E0003	001	0 A1