



LRJ

ENGINEERING | INGÉNIERIE

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PROJECT

700 CORONATION AVENUE
PROPOSED 4-STOUREY BUILDING ADDITION

DRAWING TITLE

STORM CISTERN DETAIL

CLIENT

MJ ASSET MANAGEMENT LTD.

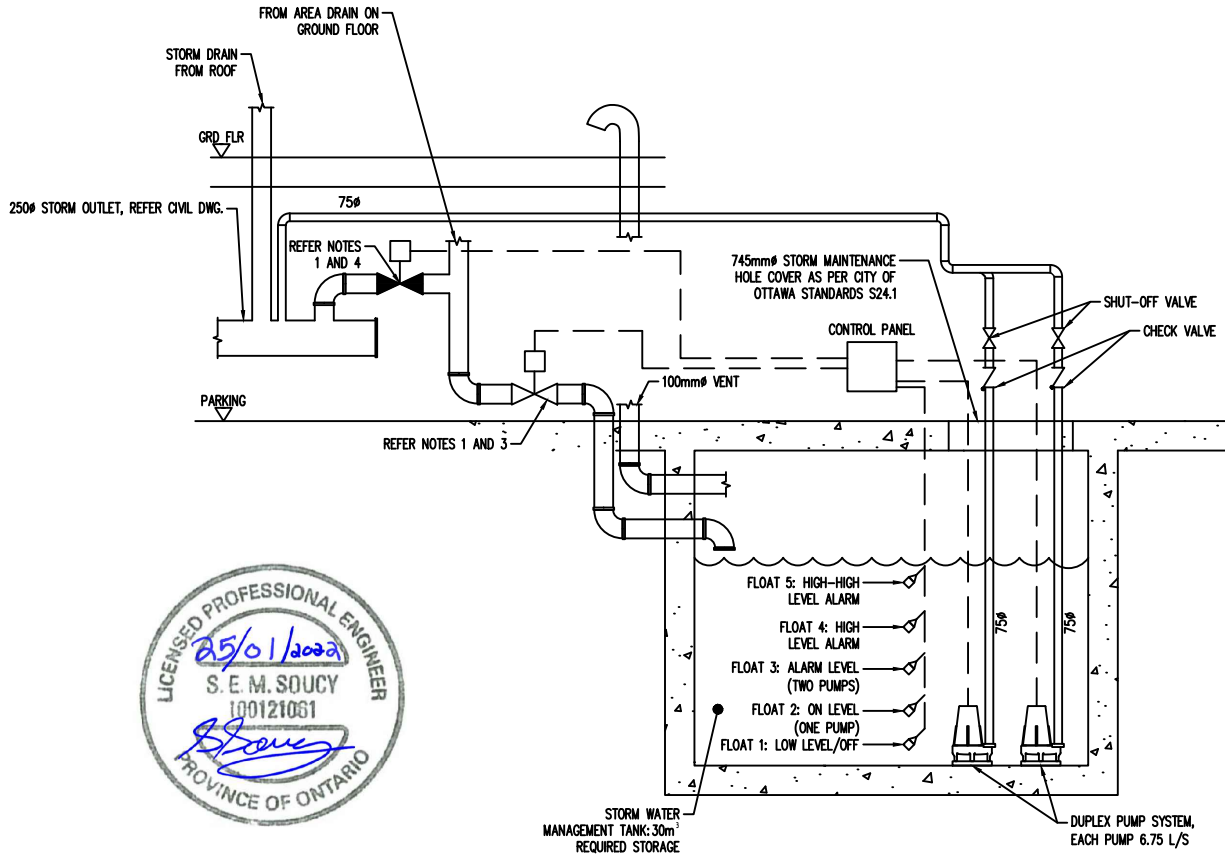
DATE

JAN.25, 2022

PROJECT

200463.04

SK1



NOTE:

- PUMP SYSTEM CONTROLLER C/W FOLLOWING SEQUENCE OF OPERATION:
 - FLOAT 1: LOW LEVEL (LEAD PUMP OFF)
 - FLOAT 2: LEAD PUMP ON, RUNNING LAG PUMP OFF
 - FLOAT 3: LAG PUMP ON, LEAD PUMP RUNNING
 - FLOAT 4: ALARM, SOLENOID VALVE (V2) OPENS
 - FLOAT 5: ALARM, SOLENOID VALVE (V1) CLOSES
- C/W CONTROL PANEL WITH AUDIBLE AND VISUAL HIGH LEVEL ALARM, STARTER, FLOATS AND ALL ACCESSORIES SUCH AS PRECONFIGURED PANEL WITH DISCONNECT AND NEMA 4X RATING, CONTROL PANEL TO BE PROVIDED BY THE PUMP'S MANUFACTURER.
- PROVIDE NORMALLY OPEN SOLENOID VALVE FOR STORM WATER CISTERN TANK. THE VALVE WILL CLOSE UPON ACTIVATION OF THE HIGH-HIGH (FLOAT 5) LEVEL ALARM OR DURING A POWER OUTAGE (NORMAL AND EMERGENCY POWER BOTH) TO AVOID STORM WATER OVERFLOW IN THE CISTERN. THE VALVE WILL BE FAIL SAFE CLOSED.
- PROVIDE NORMALLY CLOSED SOLENOID VALVE FOR OVERFLOW AND POWER OFF CONTROLS. THE VALVE WILL OPEN UPON ACTIVATION OF THE HIGH (FLOAT 4) LEVEL ALARM OR DURING A POWER OUTAGE TO PERMIT THE STORM WATER FROM THE AREA DRAINS TO FLOW BY GRAVITY TO THE 250mm STORM WATER LINE THROUGH THE STORM PIPING PROVIDED. THE VALVE WILL BE FAIL SAFE OPEN.
- 100mm VENT PIPE FROM THE CISTERN UP FROM FLOOR BELOW C/W GOOSENECK.
- PROVIDE EMERGENCY POWER BACKUP TO PUMPS, CONTROL PANEL, SOLENOID VALVES FROM GENERATOR.