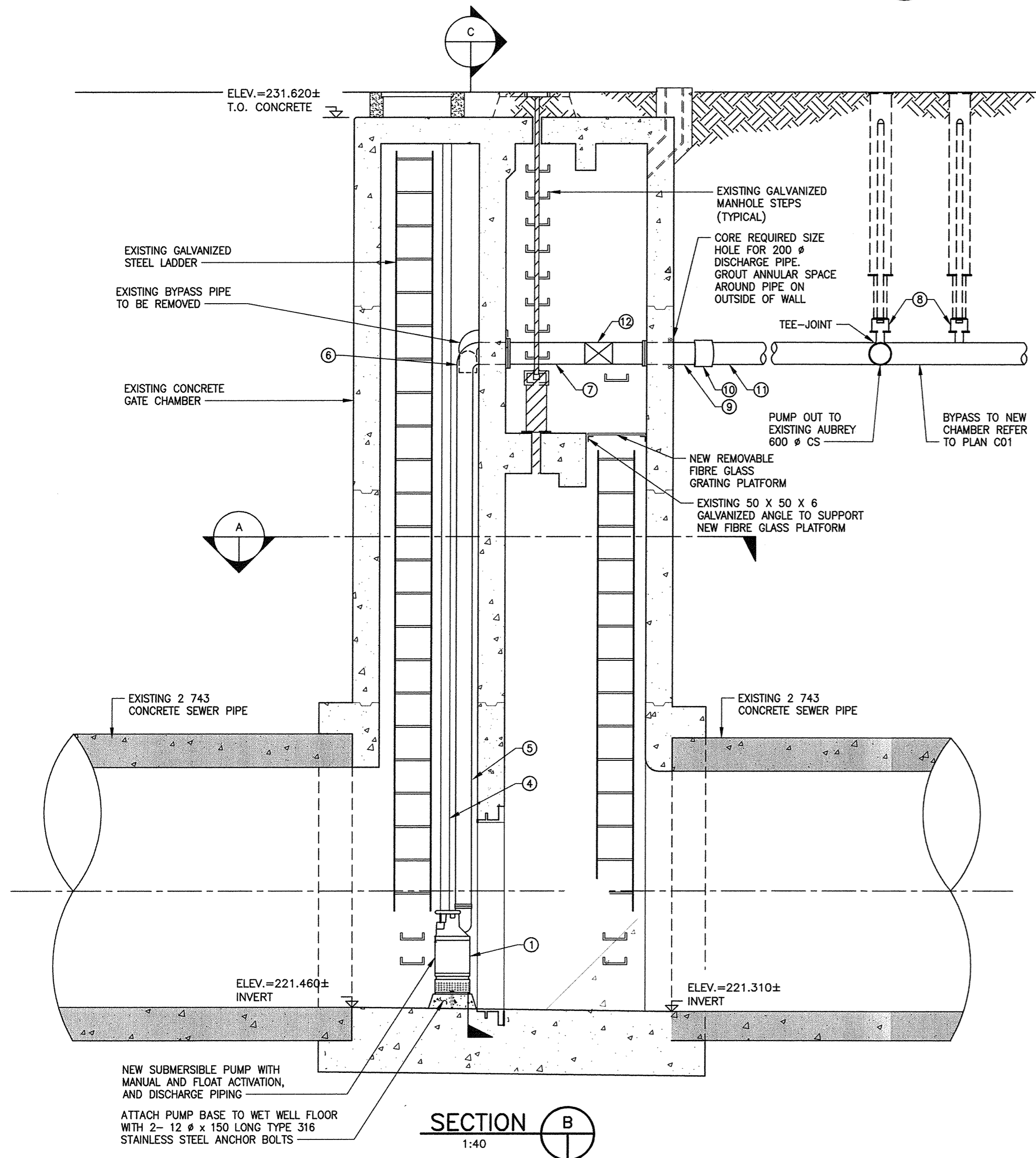


ROOF PLAN
1:40

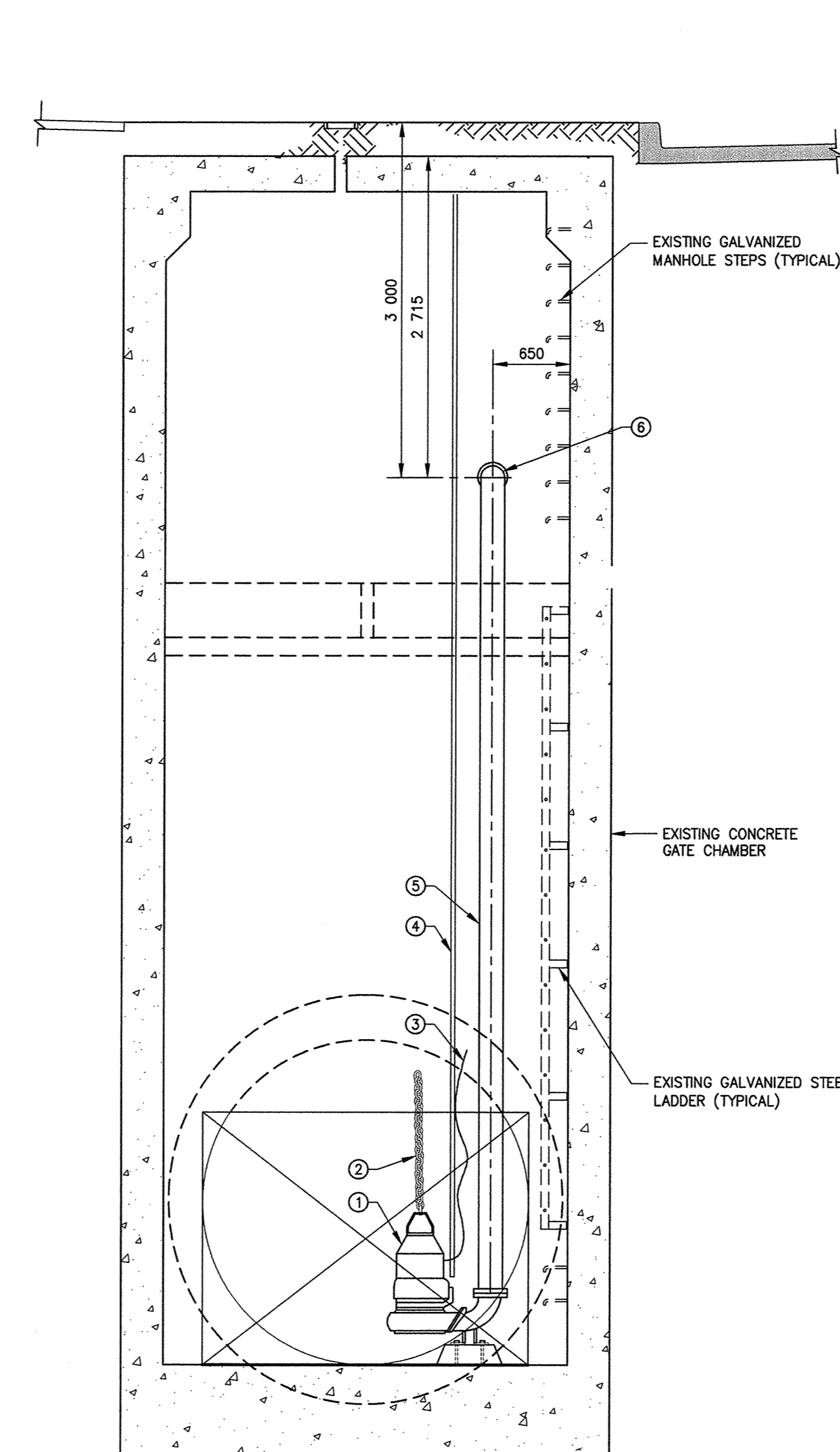
SECTION A
1:40

MATERIALS LIST

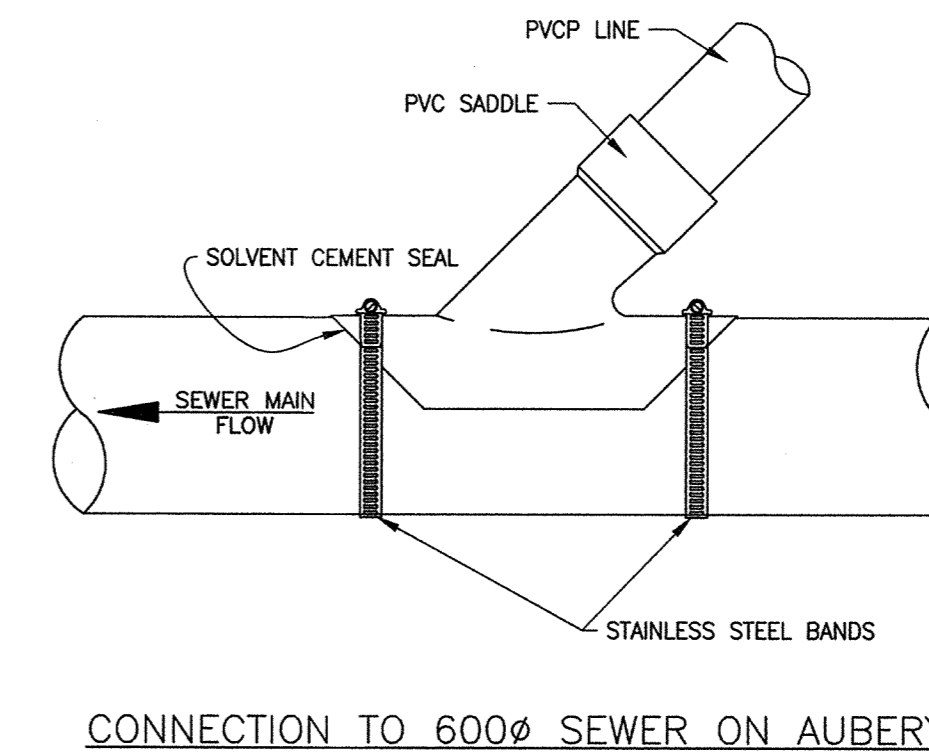
ITEM	DESCRIPTION	ENDS	LENGTGH	QUANTITY
①	FLOWSERVE MODEL 8MSX11A, 30 HP SUBMERSIBLE PUMPS C/W BASE ELBOW	FL		1
②	LIFTING CHAIN	-		1
③	POWER CABLE	-	AS REQUIRED	1
④	PUMP GUIDE RAILS	-	AS REQUIRED	2
⑤	200 # CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL x PE	AS REQUIRED	2
⑥	200 # CL 90° STD RAD ELBOW	FL x FL	AS REQUIRED	2
⑦	200 # CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL x PE	AS REQUIRED	2
⑧	200 # CL WEDGE GATE VALVE, BRONZE TRIM, OUTSIDE SCREW & YOKE RISING STEM	FL x FL		2
⑨	200 # CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL x FL	AS REQUIRED	2
⑩	200 x 200 # COUPLING	-		2
⑪	200 # SCH 80 PVC PIPE	-	AS REQUIRED	2
⑫	200 # CHECK VALVE	-	AS REQUIRED	1



SECTION B
1:40



SECTION C
1:40



CONNECTION TO 600# SEWER ON AUBREY

NOTES:

- PVC SOLVENT CEMENT SHALL BE USED FOR PVC SADDLES.
- TRUSS SADDLES SHALL BE USED WITH TRUSS PIPE.
- MAKE A NEAT CIRCULAR HOLE IN THE EXISTING SEWER THE SAME SIZE AS THE SEWER OR SEWER SERVICE TO BE CONNECTED AND INSTALL AN APPROVED PVC SADDLE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS USING STAINLESS STEEL STRAPS OR 6mm DIAMETER STAINLESS STEEL BOLTS.
- MAXIMUM CONNECTION TO AN EXISTING SEWER USING A PVC SADDLE TO BE TWO SIZES SMALLER THAN THE SEWER PIPE.
- INSTALL FASTENING BOLTS WITH HEAD ON THE INSIDE OF THE SEWER PIPE. USE WASHERS IF HOLE HAS CHIPPED DURING DRILLING. DO NOT OVER TIGHTEN BOLTS TO CAUSE STRESS OR DAMAGE TO EXISTING SEWER PIPE.
- LIMIT EXCAVATION BENEATH EXISTING SEWER TO ONLY WHAT IS REQUIRED TO INSTALL SADDLE STRAPS. FILL EXCAVATION BENEATH EXISTING SEWER WITH GROUT OR CEMENT STABILIZED FILL.

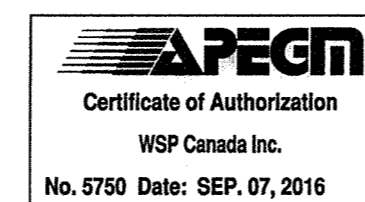
NOTES:

- ALLOWABLE SHUT DOWN TIME: 4.0 HOURS (APPROXIMATE)
- PROVIDE TEMPORARY PUMPING OF WASTEWATER DURING CONSTRUCTION.
 - INSTALL MECHANICAL AND ELECTRICAL WORK AS INDICATED AND ACCORDING TO MANUFACTURER'S SPECIFICATION.
 - EXCAVATIONS TO BE BACKFILLED WITH CLASS 3 OR 5 BACKFILL IN ACCORDANCE WITH C/W 2030 AND SD-002.
 - CONTRACTOR TO CONFIRM ALL DIMENSIONS BEFORE ASSEMBLING.
 - ANCHOR BOLTS AND FASTENERS SHALL CONFORM TO ASTM A276, TYPE 316 STAINLESS STEEL, OF AMPLÉ SECTION TO SAFELY WITHSTAND THE FORCES CREATED BY OPERATION OF THE EQUIPMENT OR THE LOAD TO WHICH THEY WILL BE SUBJECTED.

Sep 19, 2016 - 11:41am
 L:\Projects\2016\Ruby-Aubrey-MMM\WSP\working drawing\sheet\Mech\Mech.M01-20160907.dwg - Lab.M01

NOTE:
 These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES



G.R.M. ELEV.		DESIGNED BY		CHECKED BY	
		REM		REM	
		HL		REM	
1 ISSUED FOR TENDER		09/07/16		REM	
NO. REVISIONS		DATE		BY	
		2016/09/07			

WSP | MMM GROUP
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DESIGNED BY: REM CHECKED BY: REM
 DRAWN BY: HL APPROVED BY: REM

HOR. SCALE: AS NOTED
 VERTICAL: AS NOTED

RELEASED FOR CONSTRUCTION: 2016/09/07

ENGINEER'S SEAL
 PROVINCE OF MANITOBA
 M. McCONOMY
 Member
 6334
 SEP. 07, 2016
 REGISTERED PROFESSIONAL ENGINEER

NO. OF OPPORTUNITY: 789-2016
 PLOT DATE: 2016/09/07

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

OUTFALL GATE CHAMBER UPGRADES
 RUBY STREET
 SRS OUTFALL GATE CHAMBER
 EXISTING SRS OUTFALL GATE CHAMBER
 MECHANICAL DETAILS

CONSULTANT DRAWING NUMBER: 5516047 - M01
 SHEET 12 OF 34
 CITY DRAWING NUMBER: LD-7933