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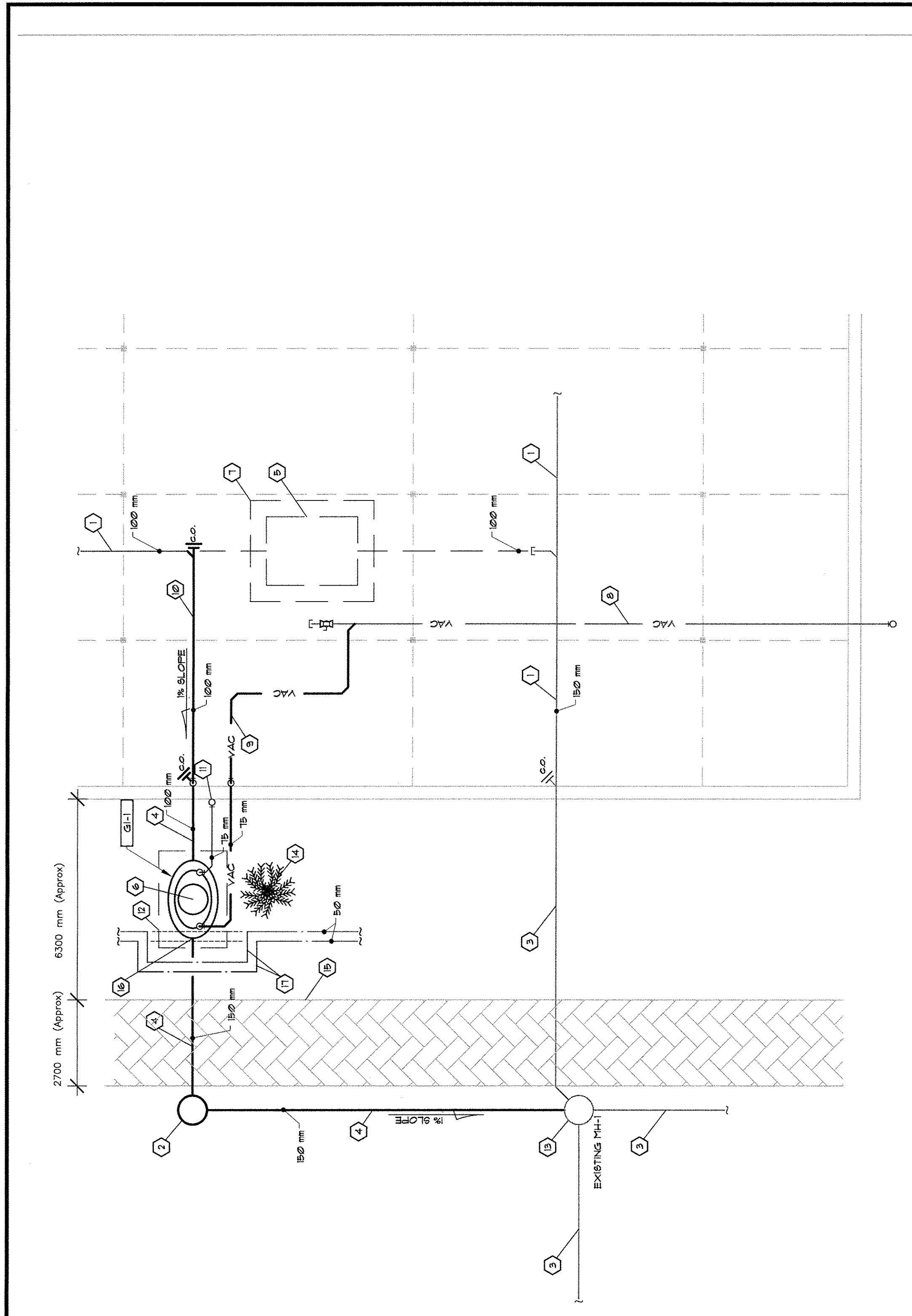
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Association of Professional Engineers & Geoscientists
 of Saskatchewan

CERTIFICATE OF AUTHORIZATION
 Regina Mechanical Design Group
 Number C1433
 Discipline: MECH
 St. Reg. No. 151963

Permissions to Consult held by: Specialist
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ENGINEERING LICENSE
 YANNITSOB
 15 09 05
 MEMBER 1986
 150 RAYBURN DRIVE
 REGINA, SASKATCHEWAN
 S4P 1A2



PLUMBING EQUIPMENT SCHEDULE

GENERAL NOTES

1. ALL SANITARY PIPING TO HAVE A MINIMUM OF 750 mm OF COVER.
2. CONCRETE ALL INVERT ELEVATIONS ON SITE PRIOR TO START OF CONSTRUCTION.
3. STONE WALKWAY WHERE DRAINAGE IS REQUIRED EXCAVATING IN THIS CONTRACT. PATCH AND REPAIR TO MATCH EXISTING.

Client: **ROYAL CANADIAN MOUNTED POLICE**

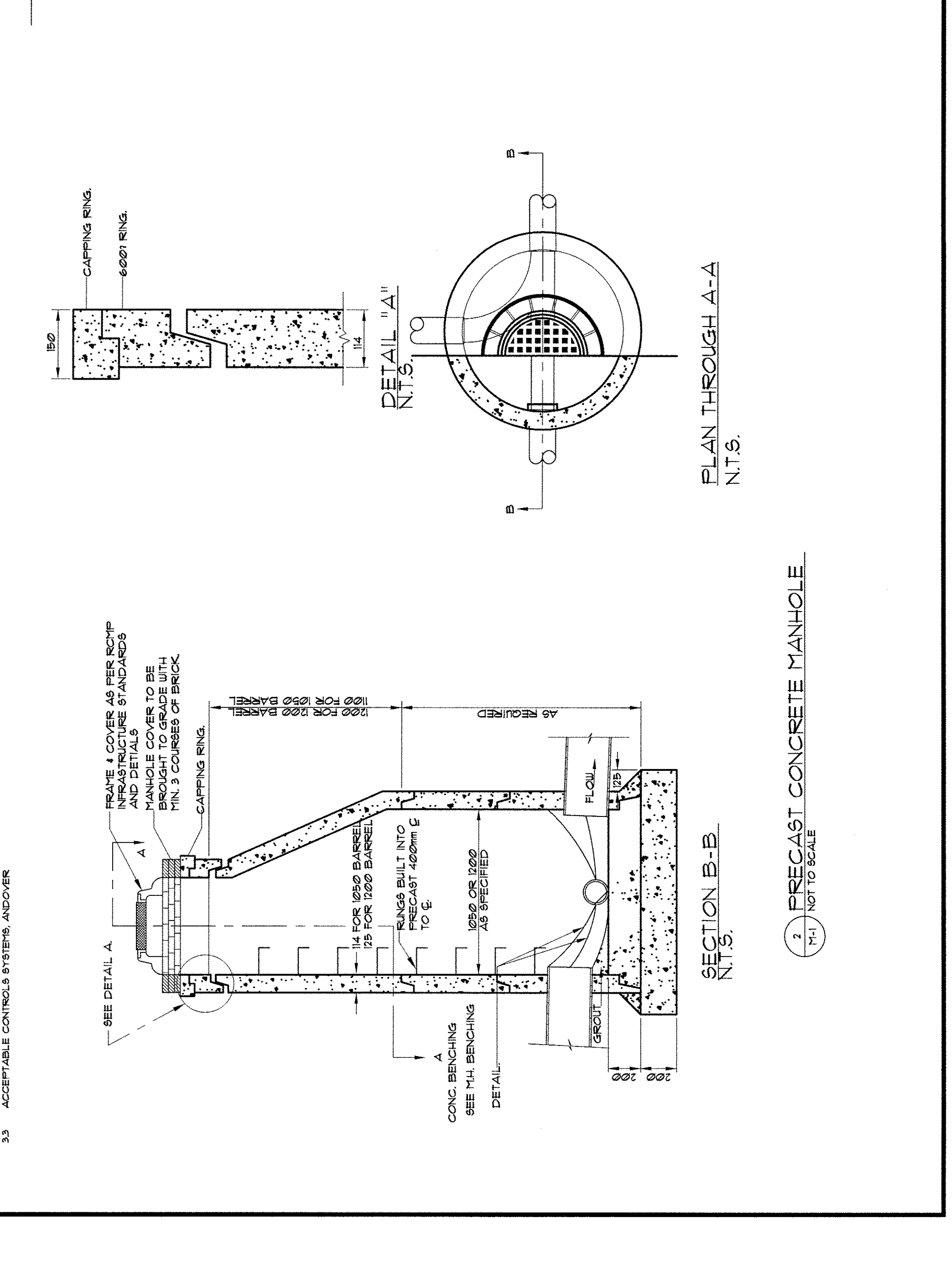
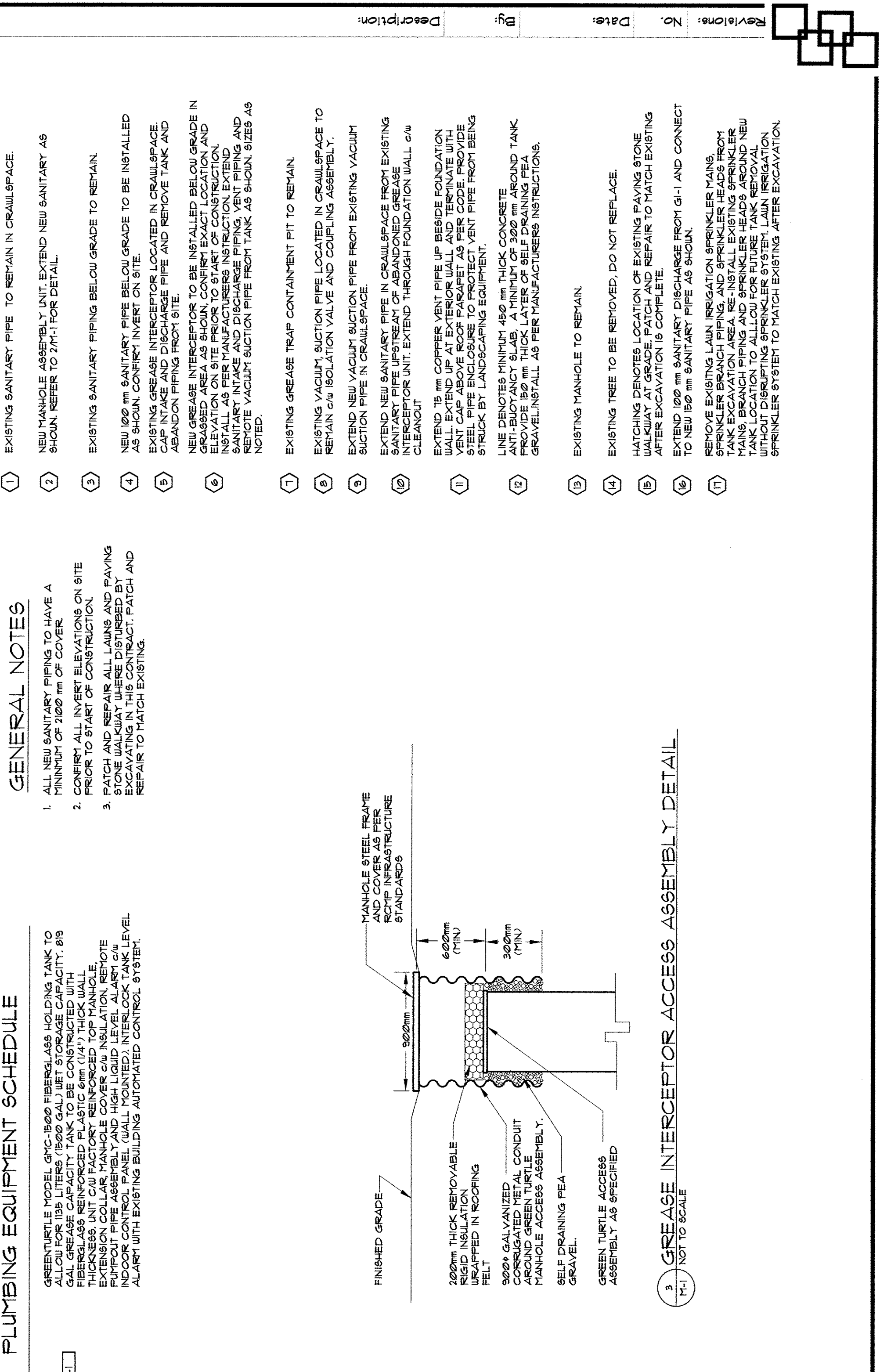
FOOD SERVICES BUILDING NEW GREASE INTERCEPTOR
 Regina, Saskatchewan

MECHANICAL

File : 15-060
 Date: 2013-09-09
 Drawn : P.S.
 Checked : J.T.

Drawing Number: **M-1**

Rev: 0 Dig: 1 of 1



STANDARD MECHANICAL SPECIFICATIONS

1. GENERAL

1. PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM WITH ALL FITTINGS AND ACCESSORIES TO MEET REQUIREMENTS SPECIFIED IN THESE DRAWINGS AND SPECIFICATIONS. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER. ANYTHING CALLED FOR IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS OR SHOWN ON THE DRAWINGS AND NOT CALLED FOR IN THE SPECIFICATIONS MUST BE CONSIDERED AS APPEARING IN BOTH AND MUST BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.
2. MECHANICAL INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES AND BY-LAWS AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
3. GIVE ALL NECESSARY NOTICES, OBTAIN ALL NECESSARY PERMITS, AND PAY ALL FEES IN ORDER THAT THE WORK HEREIN SPECIFIED MAY BE INSTALLED CONFORMING TO THE LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION BEFORE FULL ACCEPTANCE CERTIFICATES ARE ISSUED.
4. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS SHALL BE REPORTED TO THE CONSULTANT IMMEDIATELY. THE CONSULTANT SHALL BE RESPONSIBLE FOR RESOLVING ANY DISCREPANCIES OR CONFLICTS.
5. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL MATERIAL, EQUIPMENT, AND SYSTEMS ARE TO BE NEW AND FREE FROM DEFECTS.
6. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
7. BEFORE COMMENCING THE WORK, EXAMINE THE WORK OF THE OTHER TRADES AND REPORT AT ONCE ANY DEFECTS OR INTERFERENCES AFFECTING THE WORK TO THE CONSULTANT. THE CONSULTANT SHALL BE RESPONSIBLE FOR RESOLVING ANY DISCREPANCIES OR CONFLICTS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AUTHORITIES HAVING JURISDICTION.
9. ALL INSTALLATIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE CONSULTANT PRIOR TO ACCEPTANCE.
10. THE USE OF TRADE NAMES IN SPECIFICATIONS AND ON DRAWINGS SHALL CONSTITUTE A BASIS UPON WHICH EQUALS CAN BE ESTABLISHED. SUBSTITUTION WILL BE ALLOWED, BUT IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. FURTHER, WHEREVER A TRADE NAME IS STATED, THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
11. RECORD DRAWINGS - KEEP IN THE JOB OFFICE AN EXTRA SET OF WHITE PRINTS AND SPECIFICATIONS PROVIDED BY THE CONSULTANT, ON WHICH SHALL BE MARKED AS WORK PROGRESSES ALL CHANGES AND DEVIATIONS IN TERMS OF PIPING, DUCTWORK, OR LOCATION OF EQUIPMENT. THESE RECORD DRAWINGS SHALL BE GIVEN TO THE CONSULTANT ON COMPLETION OF THE JOB.
12. SHOP DRAWINGS - SUBMIT EIGHT (8) COPIES OF SHOP DRAWINGS OF ALL MAJOR EQUIPMENT AND PIPING FIXTURES TO THE CONSULTANT FOR REVIEW BEFORE ORDERING. AT PROJECT COMPLETION PROVIDE TO THE CONSULTANT FOR REVIEW CONTRACTORS MARKED-UP RECORD (AS-BUILT) DRAWINGS, TEST RESULTS, AND MAINTENANCE MANUALS INCLUDING SHOP DRAWINGS AND MAINTENANCE INFORMATION FOR ALL EQUIPMENT AND SYSTEMS.
13. REGULAR OPERATION OF THE EXISTING BUILDING IS TO BE MAINTAINED. WHEN ANY SERVICES ARE TO BE INTERRUPTED FOR CHANGEOVER MAKE NECESSARY ARRANGEMENTS WITH THE BUILDING MANAGER.
14. ACCESS DOORS, TURNISH AND INSTALL ACCESS COVERS AND ACCESS DOORS FOR NEW MECHANICAL EQUIPMENT SHOWN ON THE DRAWINGS, WHICH MAY REQUIRE SERVICING. ACCESS DOORS SHALL BE 18" WITH 4" RISE SERIES, 5680X4680X16.5", UNLESS SPECIFICALLY NOTED OTHERWISE.
15. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL HANGERS SHALL BE 1/2" GALV. STEEL WITH 1/2" DIA. BOLTS AND NUTS. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. ALL OF THE ABOVE DOCUMENTS SHALL BE SUBMITTED TO THE CONSULTANT FOR APPROVAL PRIOR TO BEING TURNED OVER TO THE CONTRACTOR.
16. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TEMPORARY HEAT, MAKE ALL ARRANGEMENTS AND PAY ALL COSTS FOR FUEL, MAINTENANCE OF EQUIPMENT, TEMPORARY FILTERS, REPAIRS OR REPLACEMENT OF PARTS.
17. OWNERS INSTRUCTIONS: THE CONTRACTOR SHALL INSTRUCT AND PROVIDE OPERATING AND MAINTENANCE INSTRUCTIONS TO THE BUILDING MAINTENANCE STAFF REGARDING ALL NEW EQUIPMENT, MATERIALS, AND SYSTEMS.
18. AFTER THE BUILDING IS COMPLETED AND ACCEPTED, GIVE TO OWNERS A ONE YEAR WRITTEN GUARANTEE AGAINST DEFECTS IN EQUIPMENT AND/OR MATERIALS AND WORKMANSHIP, EXCEPT WHERE SUCH DEFECTS ARE DUE TO THE OWNERS' MISUSE. THIS GUARANTEE WILL NOT CANCEL LONGER WARRANTIES.
19. TESTING - TEST AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND AS OTHERWISE DESCRIBED HEREIN.
20. CUTTING AND PATCHING - ALL CUTTING, DRILLING AND PATCHING REQUIRED TO INSTALL MECHANICAL SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. ALL PATCHING SHALL MATCH EXISTING FINISHES. THE MECHANICAL CONTRACTOR SHALL ACCURATELY LOCATE OPENINGS REQUIRED FOR HIS WORK AND OBTAIN APPROVAL PRIOR TO CUTTING OR PATCHING. ALL OPENINGS REQUIRED SHALL BE FILLED WITH APPROVED FIRE RESISTANT MATERIALS.
21. PAINTING AND FINISHES - ALL OPENINGS REQUIRED SHALL BE FILLED WITH APPROVED FIRE RESISTANT MATERIALS. THE CONTRACTOR SHALL COORDINATE PAINTING FINISHES WITH THE ARCHITECT OR CONSULTANT.
22. HANGERS - ALL HANGERS SHALL BE SUBSTANTIAL HANGERS DRILLED FOR HANGERS FROM THE BUILDING STRUCTURE. NO PERFORATED COPPER OR IRON HANGERS WILL BE ALLOWED FOR HANGERS OF PIPING AND DUCTWORK. DUE TO EXPANSION FOR UNIFORM PRESSURE, UNIFORM PRESSURE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION AS TO OUTSIDE OF INSULATION AND NOT DIRECTLY FROM THE PIPE ITSELF. PROVIDE COPPER PLATE FINISH OR PVC COATED HANGERS FOR ALL NON-INSULATED COPPER PIPES SUPPORT DUCTWORK AS PER SPACIA STANDARDS.

2. FINISHING

21. PIPE AND PIPE FITTINGS AS FOLLOWS:
 EITEMS:
 COPPER DIV. 95-50 SOLDER
 PLASTIC 600 SOLVENT WELD JOINTS - PERMITTED SOLDERED BELOW GRADE ONLY
 COPPER TYPE L 95-9 SOLDER AS PER MANUFACTURERS INSTRUCTIONS
 CROSS LINKED POLYETHYLENE (PEX) AS PER MANUFACTURERS INSTRUCTIONS
22. CONTROLS

3. CONTRACTORS

31. ALL CONTRACTORS FOR THE MECHANICAL SYSTEM ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. PROVIDE NEW WORKING DRAWINGS, RELAYS, TRANSFORMERS AND THERMOSTATS AS NECESSARY TO CONNECT TO EXISTING OR NEW CONTROLLING OR CONTROLLED DEVICES. NEW THERMOSTATS TO MATCH EXISTING. INTERLOCK NEW CONTROLS WITH THE BUILDING'S EXISTING DDC CONTROL SYSTEM. UPDATE SYSTEM PROGRAMMING AND GRAPHICS AS REQUIRED.
32. PROVIDE ALL POINTS AVAILABLE IN A GRAPHIC INTERFERE IN THE EXISTING BUILDING DIGITAL CONTROL SYSTEM.
33. ACCEPTABLE CONTROLS SYSTEMS AND/OVER

1. PRECAST CONCRETE MANHOLE
 N.T.S.
 NOT TO SCALE

PLAN THROUGH A-A
 N.T.S.

SECTION B-B
 N.T.S.

Revisions:	Date:	Description:
1		