



COMMISSIONING PLAN FOR CONTRACT 4A FEEDER MAIN (TENDER NO. 220-20240)

DESCRIBED HEREIN ARE THE MINIMUM REQUIREMENTS AND EXPECTATIONS FOR THE PURPOSE OF COMMISSIONING THE 750MM DIA. CENTERPORT SOUTH - PHASE 1A FEEDER MAIN FROM THE ROUGE ROAD FEEDER MAIN CONNECTIONS TO OFFTAKE STRUCTURE 3. WATER SUPPLY FOR MEANS OF PIGGING AND DISINFECTION IS AVAILABLE FROM THE ROUGE ROAD FEEDER MAIN. AT A MINIMUM, THE CONTRACTOR SHALL MEET THE REQUIREMENTS OF THIS PLAN AS OUTLINED. ANY CHANGE OR ALTERATION TO THIS PLAN WILL REQUIRE REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR AS PER B1.2 OF THE SPECIFICATIONS.

STAGE 1 - OFFTAKE STRUCTURE 2

- 1. CONSTRUCT OFFTAKE STRUCTURE 2 (OS 2) AND INSTALL 600MM PVC PIPING UP TO ROUGE ROAD FEEDER MAIN CONNECTION POINTS.
2. CLEAN AND TELEWISE ALL CHAMBER AND 600MM PVC PIPING AS PER SPECIFICATION E43.
3. INSTALL TEMPORARY STRUCTURAL BRACING FOR THE 600MM PIPE ENDS FOR THE PURPOSE OF PRESSURE TESTING.
4. PRESSURE TEST ALL CHAMBER AND 600MM PVC PIPING.
5. DISINFECT ALL CHAMBER AND 600MM PVC PIPING AS PER SPECIFICATION E43.
6. COORDINATE ROUGE ROAD FEEDER MAIN SHUTDOWN WITH THE CITY OF WINNIPEG AND THE CONTRACT ADMINISTRATOR AS PER SPECIFICATION E40.
7. ISOLATE ROUGE ROAD FEEDER MAIN BY CLOSING VALVES AT THE INTERSECTION OF NESS AVE AND STURGEON ROAD AS WELL AS AT HAMILTON AVE AND VIMY ROAD INTERSECTION. OPERATION OF THE FEEDER MAIN VALVES SHALL ONLY BE UNDERTAKE BY CITY OF WINNIPEG OPERATIONS STAFF.
8. DEWATER THE ROUGE ROAD FEEDER MAIN AS PER SHUTDOWN PLAN REVIEWED AND APPROVED BY THE CITY OF WINNIPEG AND THE CONTRACT ADMINISTRATOR.
9. CONSTRUCT BOTH CONNECTIONS TO THE ROUGE ROAD FEEDER MAIN, DISINFECTING THE CONNECTION PIPING PRIOR BY SWABBING OR SPRAYING.
10. OPEN BOTH 600MM VALVES IN OS 2. THE 750MM VALVE SHALL REMAIN CLOSED.
11. CHARGE THE ROUGE ROAD FEEDER MAIN AND NEW 600MM PIPING BY SLOWLY OPENING THE EXISTING ROUGE ROAD FEEDER MAIN VALVES AT THE INTERSECTION OF NESS AVE AND STURGEON ROAD AS WELL AS AT HAMILTON AVE AND VIMY ROAD INTERSECTION. OPERATION OF THE FEEDER MAIN VALVES SHALL ONLY BE UNDERTAKE BY CITY OF WINNIPEG OPERATIONS STAFF.
12. CONFIRM PROPER OPERATION OF ROUGE ROAD FEEDER MAIN AND OS 2 PIPING WITH CITY OF WINNIPEG OPERATIONS STAFF AND THE CONTRACT ADMINISTRATOR.

STAGE 2 - 750MM STURGEON ROAD FEEDER MAIN

- 13. CONSTRUCT OS 3 AND COMPLETE INSTALLATION OF 750MM STURGEON ROAD FEEDER MAIN BETWEEN OS 2 AND OS 3.
14. INSTALL 300MM LONG SPOOL PIECES INSTEAD OF THE 750 MM BUTTERFLY VALVES IN PROVISIONAL VALVE CHAMBERS 1 AND 2 IF REQUIRED TO ALLOW FOR PIGGING OF THE FEEDER MAIN.
15. INSTALL A 300MM LONG SPOOL PIECE INSTEAD OF THE 750 MM BUTTERFLY VALVE IN OS 3. THIS IS REQUIRED INITIALLY TO ALLOW FOR PIGGING OF THE FEEDER MAIN.
16. SETUP SUITABLE BLEEDER VALVES, DEWATERING AND DECHLORINATION EQUIPMENT AT OS 3 TO SUPPORT THE PIGGING OPERATION.
17. INSTALL PIGS INSIDE FEEDER MAIN USING THE 750MM WYE IN OS 2.
18. THE NUMBER OF PIGS USED IN THE TRAIN IS AT THE DISCRETION OF THE CONTRACTOR. AS PER SPECIFICATION EX43, A MINIMUM OF FOUR PIGS MUST BE LAUNCHED IN TOTAL.
19. FILL FEEDER MAIN TO AT LEAST 25% FULL IN FRONT OF PIGS BY ADDING WATER AT AV CHAMBER 1 OR AN ALTERNATE LOCATION APPROVED BY THE CONTRACT ADMINISTRATOR.
20. GRADUALLY OPEN THE 750MM VALVE IN OS 2 TO SLOWLY FILL THE FEEDER MAIN AND RUN THE PIG TRAIN THROUGH THE FEEDER MAIN. OPERATION OF THE FEEDER MAIN VALVE SHALL ONLY BE UNDERTAKE BY CITY OF WINNIPEG OPERATIONS STAFF UNLESS APPROVED OTHERWISE AND IN THE PRESENCE OF CITY OF WINNIPEG OPERATIONS STAFF.
21. CONTRACTOR TO RETRIEVE PIGS AT OS 3 USING SUITABLE MEANS AND METHODS FOR THE RETRIEVAL.
22. AS PER SPECIFICATION E43, THE CONTRACTOR SHALL DECHLORINATE WATER FROM THE PIGGING OPERATION BEFORE DISCHARGING IT INTO DITCHES AT THE SITE.
23. RE-FILL ENTIRE FEEDER MAIN AS REQUIRED AND TAKE WATER SAMPLES AT OS 2, OS 3, AV CHAMBER 1 & 2 FOR TURBIDITY ANALYSIS.
24. REPEAT STEPS 15-25 IF TURBIDITY LEVELS AT ANY OF OS 3, AV CHAMBER 1 & 2 ARE HIGHER THAN AT OS 2.
25. PRESSURE TEST FEEDER MAIN, FROM THE 750MM VALVE IN OS 2 TO THE 400MM VALVE ON THE WEST SIDE INSIDE OF OS 3.
26. REPLACE 300MM LONG SPOOL PIECES WITH 750MM BUTTERFLY VALVES IN PROVISIONAL VALVE CHAMBERS 1 AND 2 IF REQUIRED.
27. REPLACE 300MM LONG SPOOL PIECE WITH 750MM BUTTERFLY VALVE IN OS 3.

STAGE 3 - AUTOMATIC FLUSHING UNIT AND DISCHARGE LINE

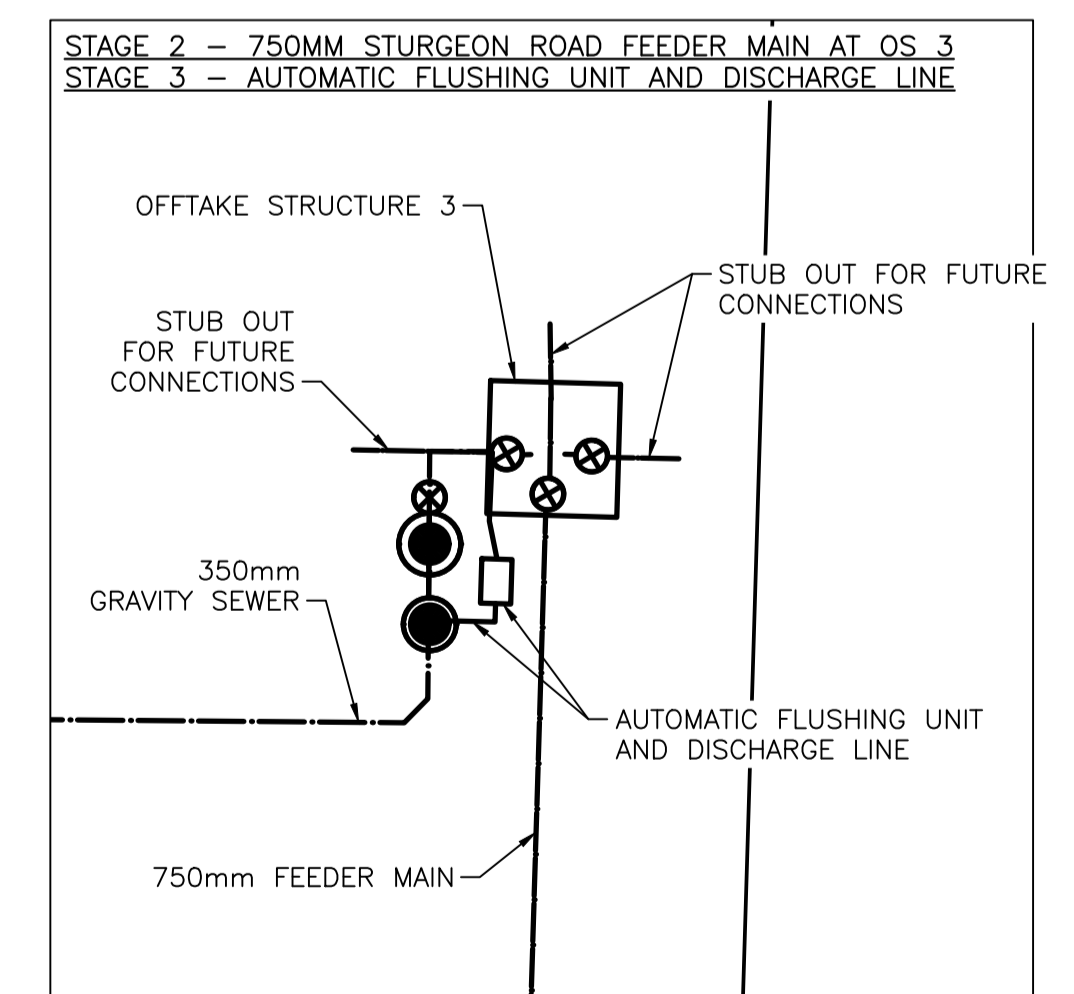
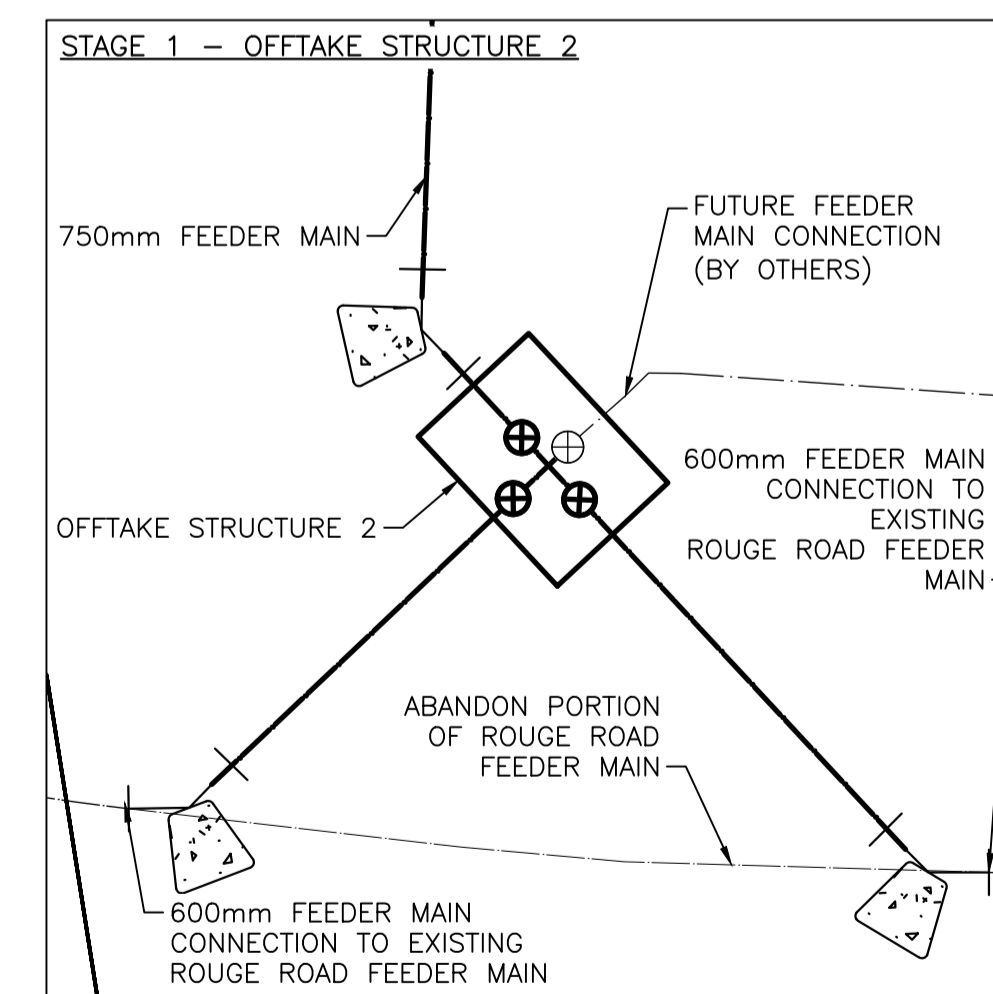
- 30. PROVIDE TEMPORARY DEWATERING AT THE DOWNSTREAM END OF DISCHARGE LINE. THIS MAY NOT BE REQUIRED IF MH-04 IS ALREADY INSTALLED AT THE TIME OF COMMISSIONING WHICH CASE THE CONTRACTOR MAY DEWATER DIRECTLY FROM MH-03.
31. OPEN THE WEST 400MM GATE VALVE IN OS 3 AND THE SOLENOID CONTROL VALVE, SLOWLY FILLING THE DISCHARGE LINE.
32. FLUSH DISCHARGE LINE AS PER CW 2125.
33. INSTALL THRUST RESTRAINED END CAP AND TEMPORARILY BRACE PIPE END NEAR MH-04 AND INSTALL BLEEDER LINE.
34. IF MH-04 IS COMPLETE, CAP DISCHARGE LINE IN MH-04.
35. PRESSURE TEST DISCHARGE LINE FROM DOWNSTREAM END TO WEST 400MM VALVE IN OS 3.
36. TEST ALL FUNCTIONS AND SENSORS OF AUTOMATIC FLUSHING UNIT.
37. REMOVE SPOOL PIECE IN OS 2 AND INSTALL THRUST RESTRAINING BLIND FLANGES.
38. REMOVE SPOOL PIECE IN OS 3 AND INSTALL 750MM BUTTERFLY VALVE.

COMMISSIONING PLAN FOR CONTRACT 2A FORCE MAIN

STAGE 4 TO BE COMPLETED UNDER CONTRACT 2A - FORCE MAIN.

COMMISSIONING PLAN FOR STAGE 5 - LIFT STATION COMMISSIONING

STAGE 5 TO BE COMPLETED UNDER CONTRACT 1A - LIFT STATION.



PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

VERTICAL DATUM: CGVD28 (HT2.0 Geoid)
HORIZONTAL DATUM: NAD83 (June 1990), Zone 14

Table with columns for NO., ISSUED FOR TENDER, DATE, REVISIONS, and BY.

Table with columns for DESIGNED BY, CHECKED BY, DRAWN BY, APPROVED BY, SCALE, RELEASED FOR CONSTRUCTION, and DATE.

ENGINEER'S SEAL
CONSULTANT DRAWING NUMBER
APPENDIX E

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

CENTREPORT SOUTH REGIONAL WATER AND WASTEWATER
SERVICING - PHASE 1A CONTRACT 4A - FEEDER MAIN
COMMISSIONING PLAN
SHEET 1 OF 1
CITY DRAWING NUMBER

APPENDIX E
FILE PATH: C:\Users\ewiens\Documents\Local FMS\FMS\23-0107-009\
FILE NAME: Phase 1A Commissioning Plan.dwg