



COMMISSIONING PLAN FOR CONTRACT 4A FEEDER MAIN (TENDER NO. 220-2024)

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. ALL WATER USED FROM CITY SOURCES WILL BE CHARGED TO CONTRACTOR AS PER SPECIFICATION E42. 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 B7 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 TELEVIEW 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 UNDERTAKEN 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. COMPLETE 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 UNDERTAKEN 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 PROVISIONAL 750mm BUTTERFLY VALVES IN 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 750mm 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 OR ALTERNATE APPROVED METHOD.
18. THE NUMBER OF PIGS USED IN THE TRAIN IS AT THE DISCRETION OF THE CONTRACTOR. AS PER SPECIFICATION E43, 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 VALVE 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, VALVE CHAMBER 1 & 2 FOR TURBIDITY ANALYSIS.
24. REPEAT STEPS 15-25 IF TURBIDITY LEVELS AT ANY OF OS 3, VALVE CHAMBER 1 & 2 ARE HIGHER THAN AT OS 2, IN ACCORDANCE WITH SPECIFICATION 43.
25. PRESSURE TEST FEEDER MAIN IN THE SHORTEST SEGMENTS POSSIBLE (BETWEEN VALVES).
26. REPLACE 300mm LONG SPOOL PIECES WITH PROVISIONAL 750mm BUTTERFLY VALVES IN VALVE CHAMBERS 1 AND 2.
27. REPLACE 300mm LONG SPOOL PIECE WITH 750mm BUTTERFLY VALVE IN OS 3.

STAGE 3 - AUTOMATIC FLUSHING UNIT AND FORCE MAIN

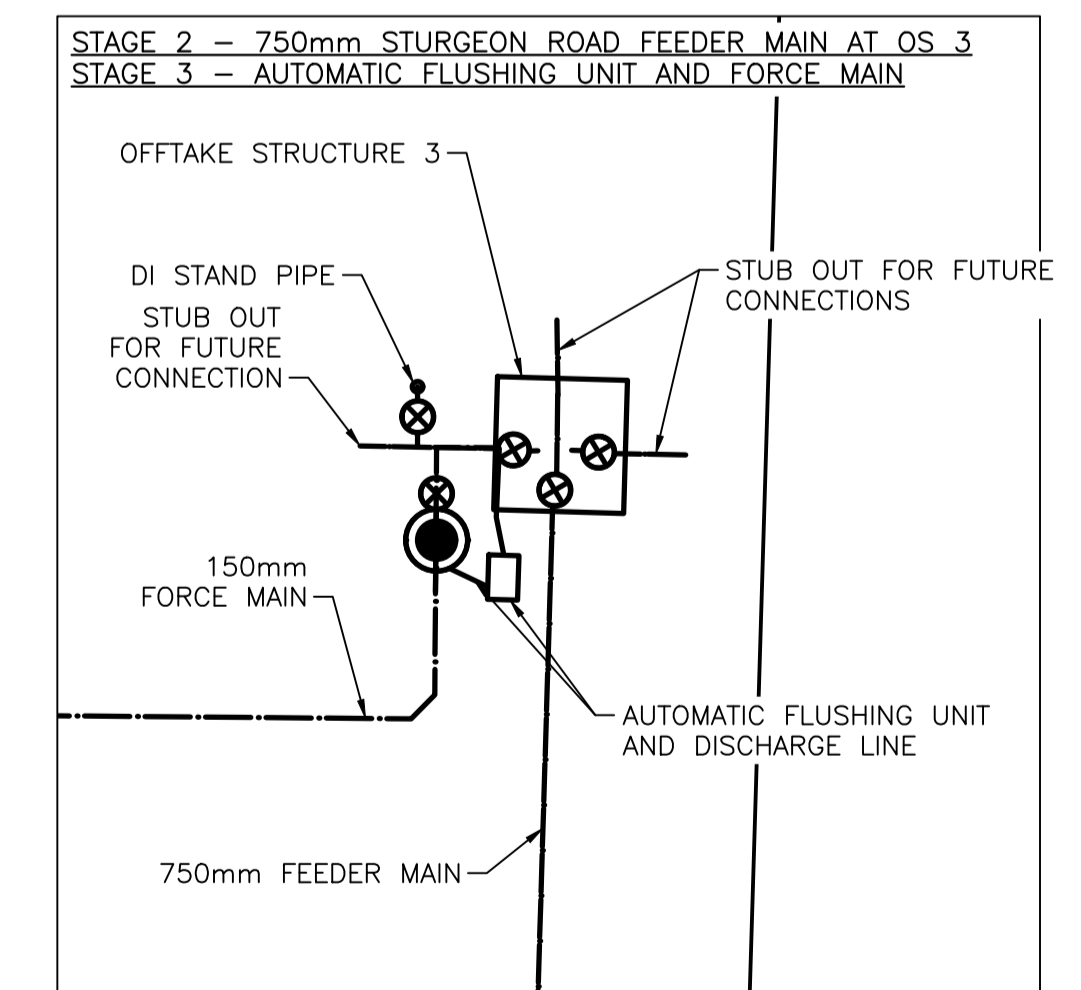
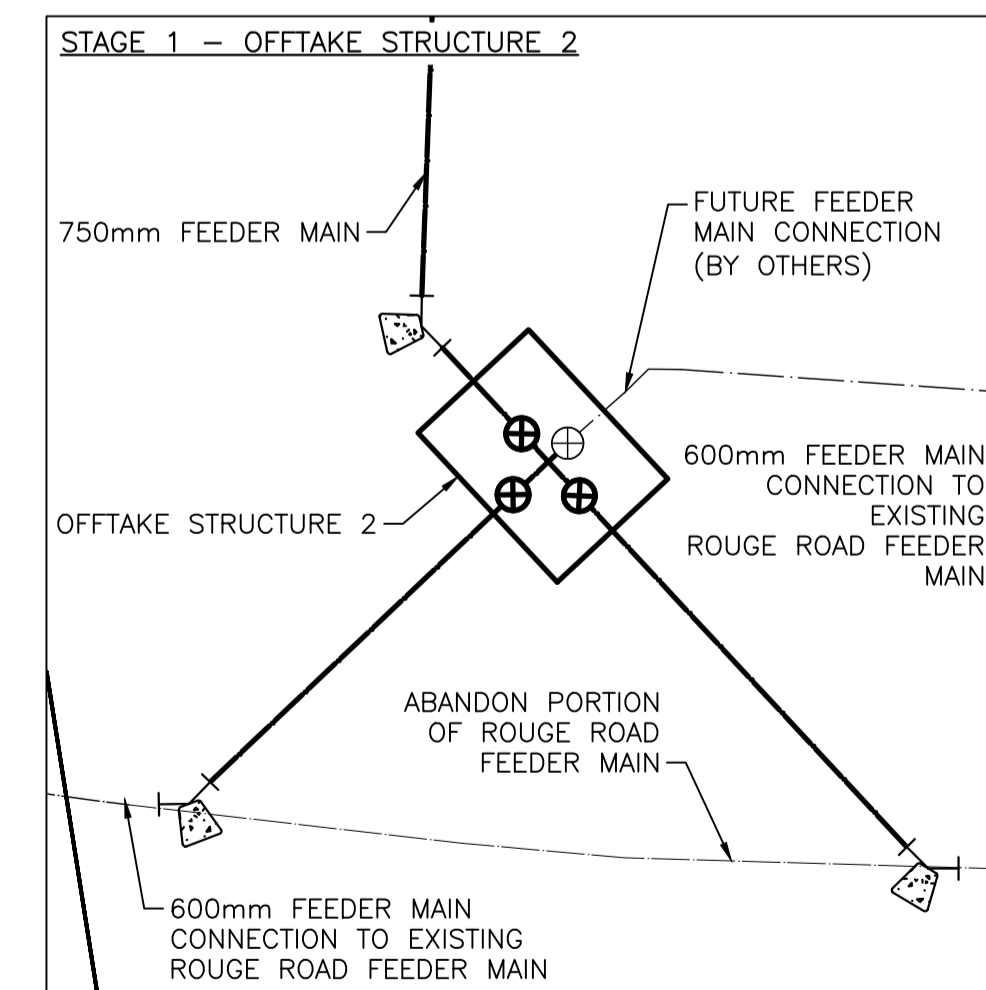
30. PROVIDE DEWATERING AND DECHLORINATION AT THE DOWNSTREAM END OF FORCE MAIN.
31. OPEN THE WEST 400mm GATE VALVE IN OS 3 AND THE 150mm GATE VALVE, SLOWLY FILLING THE FORCE MAIN.
32. FLUSH FORCE MAIN AS PER CW 2125 AND SPECIFICATION E43.
33. INSTALL BLIND FLANGE, TEMPORARY BRACING AND BLEEDER LINE WITHIN THE AIR GAP MANHOLE.
34. PRESSURE TEST FORCE MAIN FROM DOWNSTREAM END TO WEST 400mm VALVE IN OS 3 IN ACCORDANCE WITH CW 2125 AND SPECIFICATION E43.
35. TEST ALL FUNCTIONS AND SENSORS OF AUTOMATIC FLUSHING UNIT AND REDUCED PRESSURE ZONE ASSEMBLY WITHIN THE CHECK VALVE CHAMBER.
36. REMOVE SPOOL PIECE UPSTREAM OF WYE IN OS 2 AND INSTALL BLIND FLANGE C/W WITH NECESSARY ADAPTERS TO FULLY SEPARATE THE NEWLY INSTALLED FEEDER MAIN FROM THE EXISTING SYSTEM.

COMMISSIONING PLAN FOR CONTRACT 2A SEWAGE FORCE MAIN

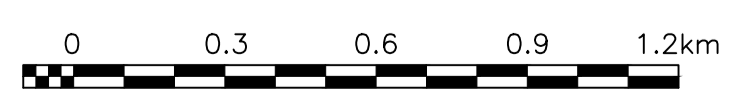
STAGE 4 TO BE COMPLETED UNDER CONTRACT 2A - SEWAGE FORCE MAIN.

COMMISSIONING PLAN FOR STAGE 5 - LIFT STATION COMMISSIONING

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



METRIC  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



LOCATION APPROVED UNDERGROUND STRUCTURES		VERTICAL DATUM: CGVD28 (HT2.0 Geoid)	
SUPV. U/G STRUCTURES COMMITTEE DATE		HORIZONTAL DATUM: NAD83 (June 1990), Zone 14	
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 ALL EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.			
NO.	ISSUED WITH ADDENDUM 4	DATE	BY
1	ISSUED FOR TENDER	24/05/16	
0		24/04/26	
NO.	REVISIONS	DATE (YYYY/MM/DD)	BY

DESIGNED BY: GTH		ENGINEER'S SEAL	
		CONSULTANT DRAWING NUMBER	
DRAWN BY: GTH		APPENDIX E	
SCALE: HORIZONTAL AS NOTED		DATE: 2024 05 16	
RELEASED FOR CONSTRUCTION		DATE: YYYY/MM/DD	
PLOT DATE: 2024 05 16		BD OPP: 220-2024	
		CONTRACT NUMBER: 4A	

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: U:\FMS\23-0107-009\  
FILE NAME: Phase 1A Commissioning Plan.dwg