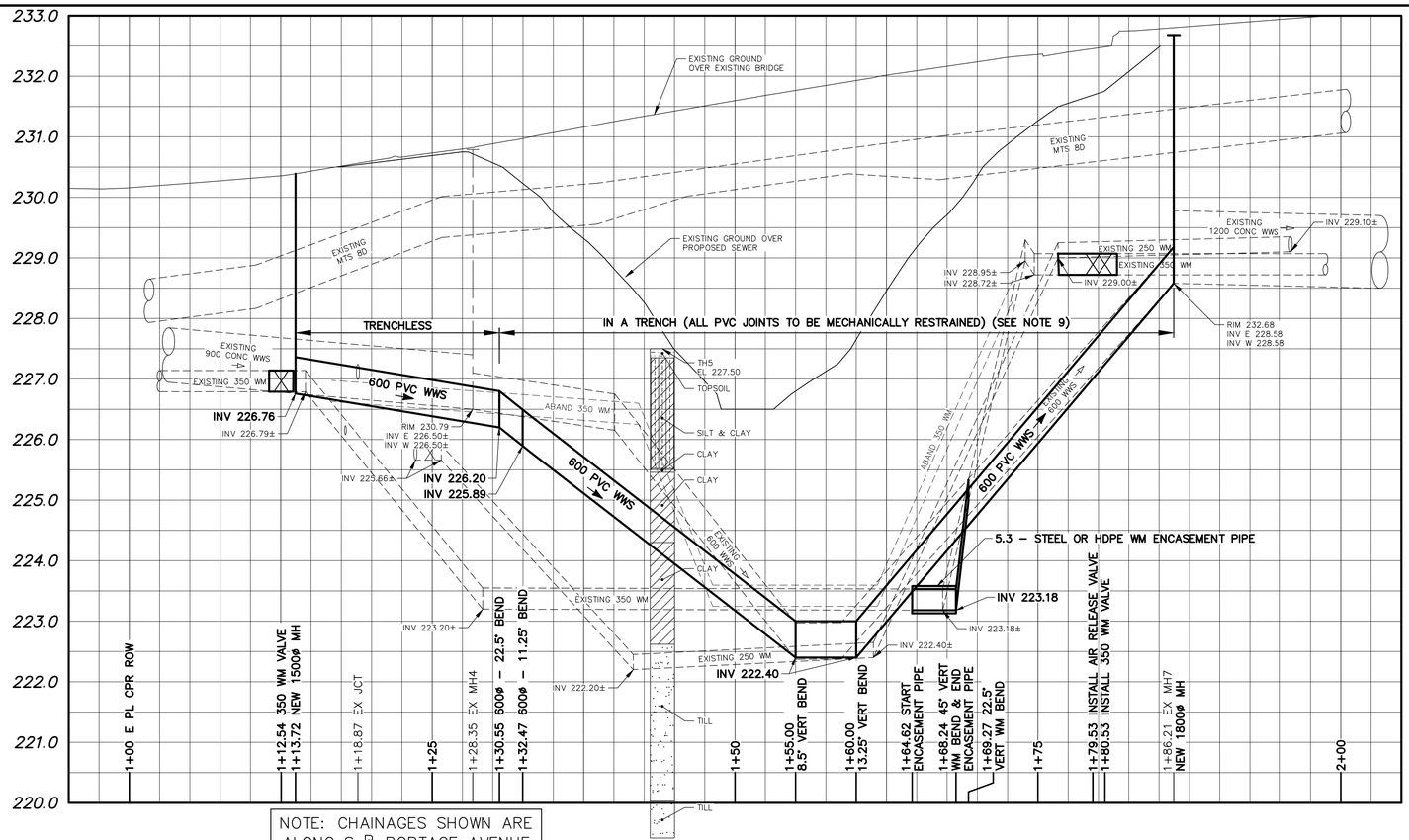
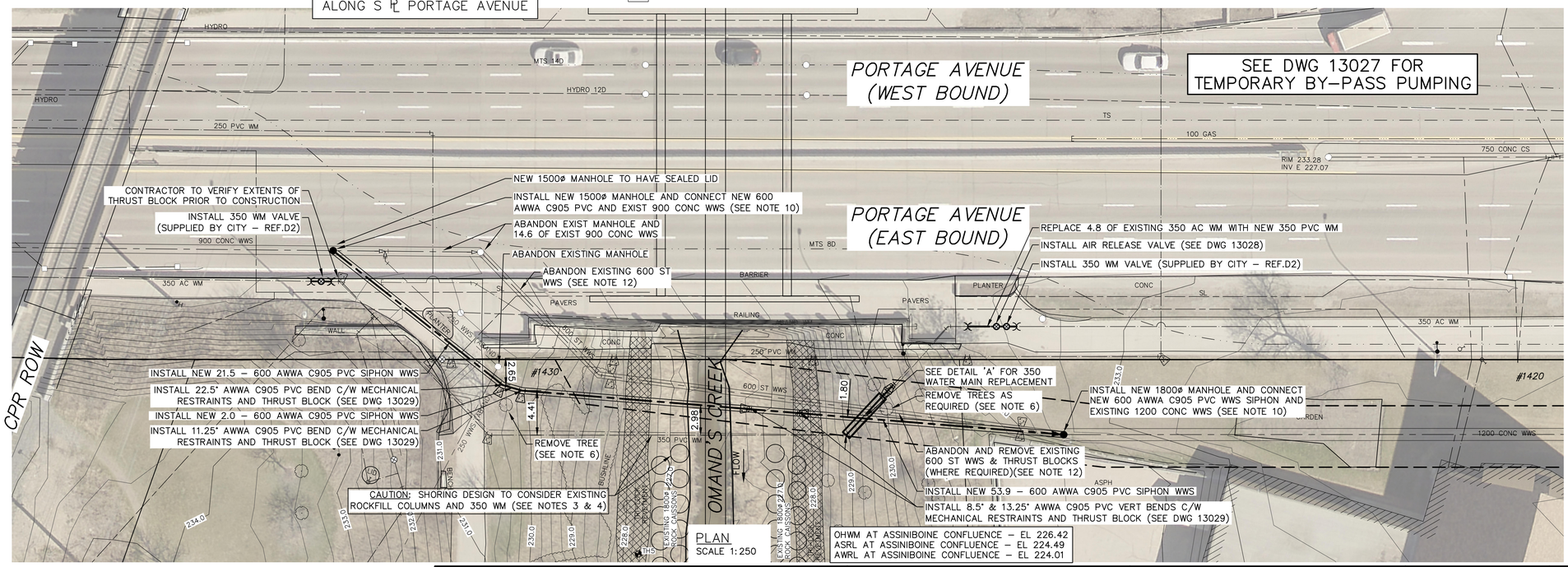


NOTE: CHAINAGES SHOWN ARE ALONG S ℄ PORTAGE AVENUE



PLAN
SCALE 1:250

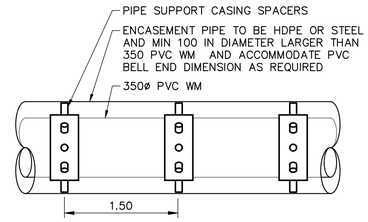
OHWM AT ASSINIBOINE CONFLUENCE – EL 226.42
ASRL AT ASSINIBOINE CONFLUENCE – EL 224.49
AWRL AT ASSINIBOINE CONFLUENCE – EL 224.01

GENERAL NOTES:

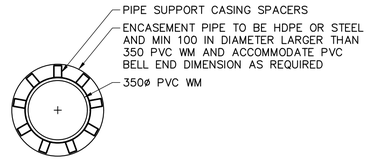
1. ALL EXCAVATED MATERIAL TO BE REMOVED FROM SITE (NO STOCKPILING).
2. THE AVERAGE WINTER RIVER LEVEL (AWRL) AT THE ASSINIBOINE RIVER CONFLUENCE (APPROX 370.0 DOWNSTREAM FROM PROJECT SITE) IS ELEV 224.01. AS SUCH, OMAND'S CREEK IS EXPECTED TO HAVE MINIMAL RUNOFF AND/OR FROZEN TO CREEK BOTTOM THROUGHOUT AT TIME OF CONSTRUCTION. (REFERENCE CONTRACT SECTION D2)
3. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO PROTECT EXISTING INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO THE ADJACENT BRIDGE STRUCTURE, EXISTING 1800ø ROCKFILL COLUMNS, AND WATER MAINS AND TO SUIT THE CONTRACTOR'S MEANS AND METHODS. SHORING SHALL REMAIN A MINIMUM OF 1.0 FROM EDGE OF ROCKFILL COLUMNS AND SHALL ACCOMMODATE 350 WM WHERE REQUIRED. SHORING SHALL BE IN ACCORDANCE WITH THE PROVINCE OF MANITOBA WORKPLACE SAFETY & HEALTH ACT AND GUIDELINES FOR EXCAVATION WORK. CONTRACTOR TO SUPPLY STAMPED ENGINEERING SHORING DESIGN BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
4. CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, INCLUDING WATER MAINS AND ROCKFILL COLUMNS AS REQUIRED TO FACILITATE SHORING DESIGN, USING SOFT DIGGING METHODS.
5. CONTRACTOR TO RESTORE SITE, INCLUDING ROADS, CURBS, SIDEWALKS, PATHWAYS, AND ALL LANDSCAPING FEATURES, TO PRE–CONSTRUCTION CONDITIONS. SEE DWG 13028 FOR RIPRAP AND TRI–LOCK REVETMENT DETAILS.
6. CONTRACTOR SHALL MARK TREES REQUIRED TO BE REMOVED PRIOR TO START OF CONSTRUCTION FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR.

SIPHON REPLACEMENT NOTES:

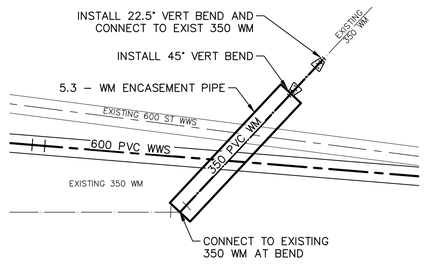
7. SIPHON SHALL BE PRESSURE TESTED IN ACCORDANCE WITH CW2110.
8. LINE ITEMS FOR REPAIR OF THE 350 WM ARE INCLUDED IN THE CONTRACT UP TO A MAXIMUM OF 45.0 LINEAL METERS TO FACILITATE SIPHON INSTALLATION AND SHORING AS REQUIRED. COSTS FOR WATER MAIN REPAIRS EXCEEDING 45.0 LINEAL METERS REQUIRED TO SUIT THE CONTRACTOR'S MEANS AND METHODS SHALL BE BORNE BY THE CONTRACTOR. THE 350 WM SHALL BE CUT, DRAINED, AND CAPPED PRIOR TO REMOVING ANY PORTION OF THE SIPHON PIPE, SO AS TO PROTECT THE WATER MAIN PIPE FROM POTENTIAL CONTAMINATION.
9. SIPHON SHALL BE INSTALLED IN A TRENCH FROM APPROX STA 1+30.6 TO STA 1+86.2 TO FACILITATE INSTALLATION OF BENDS AND REPAIRS/REPLACEMENT OF EXISTING 350 WM AS REQUIRED. MECHANICAL THRUST RESTRAINTS ARE TO BE USED ON ALL PVC JOINTS FROM STA 1+30.5 TO STA 1+86.2. RIGID POLYSTYRENE INSULATION TO BE INSTALLED AROUND NEW SIPHON AND WHERE THE 350 WM IS EXPOSED FROM STA 1+42.5 TO STA 1+69.3 IN ACCORDANCE WITH CW2110. BACKFILL TO BE CEMENT STABILIZED FILL A MINIMUM OF 300 ABOVE THE TOP OF PIPE FROM APPROX STA 1+42.5 TO 1+69.3, AS SHOWN ON DETAILS ON DWG 13028.
10. 600 AWWA C905 PVC TO 1500ø MANHOLE TO BE REINFORCED CONCRETE COLLAR. 600 AWWA C905 PVC TO 1800ø MANHOLE TO BE REINFORCED CONCRETE COLLAR IN CONJUNCTION WITH THRUST BLOCK (SEE DWG 13029).
11. CONTRACTOR TO PROVIDE TEMPORARY BY–PASS PUMPING DURING CONSTRUCTION (SEE DWG 13027).
12. EXISTING 600 STEEL SIPHON TO BE ABANDONED. IF WITHIN EXCAVATION EXTENTS, REMOVE SECTIONS OF EXISTING 600 STEEL SIPHON AS REQUIRED, OTHERWISE PLUG AND FILL WITH CEMENT STABILIZED FLOWABLE FILL IN ACCORDANCE WITH CW2130.



LONGITUDINAL SECTION



ENCASEMENT PIPE DETAIL
SCALE N.T.S.



DETAIL 'A' – 350 WATER MAIN REPLACEMENT
SCALE N.T.S.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

FOR INDEX PAGE SEE DWG 13025

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

0.0 5.0 10.0 15.0 20.0 25.0

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.

2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

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.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	2021 11 22	RBO

KGS GROUP

DESIGNED BY	NGV	CHECKED BY	RBO
DRAWN BY	GEL	APPROVED BY	RBO
SCALE: HORIZONTAL	1:250	RELEASED FOR CONSTRUCTION	
VERTICAL	1:50		
DATE	2021 11 23	DATE	

PLOT DATE: 2021 11 23

ENGINEER'S SEAL
PROVINCE OF MANITOBA
2021-11-23
R. B. OFFMAN
Member
21701
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
21–0107–12_13026

BID OPPORTUNITY: 723–2021
CONTRACT NUMBER:

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

PORTAGE AVENUE INTERCEPTOR
SIPHON REPLACEMENT AT OMAND'S CREEK
PORTAGE AVENUE AT OMAND'S CREEK
PLAN AND PROFILE
S–MA70031433

SHEET 3 OF 6
CITY DRAWING NUMBER
13026

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