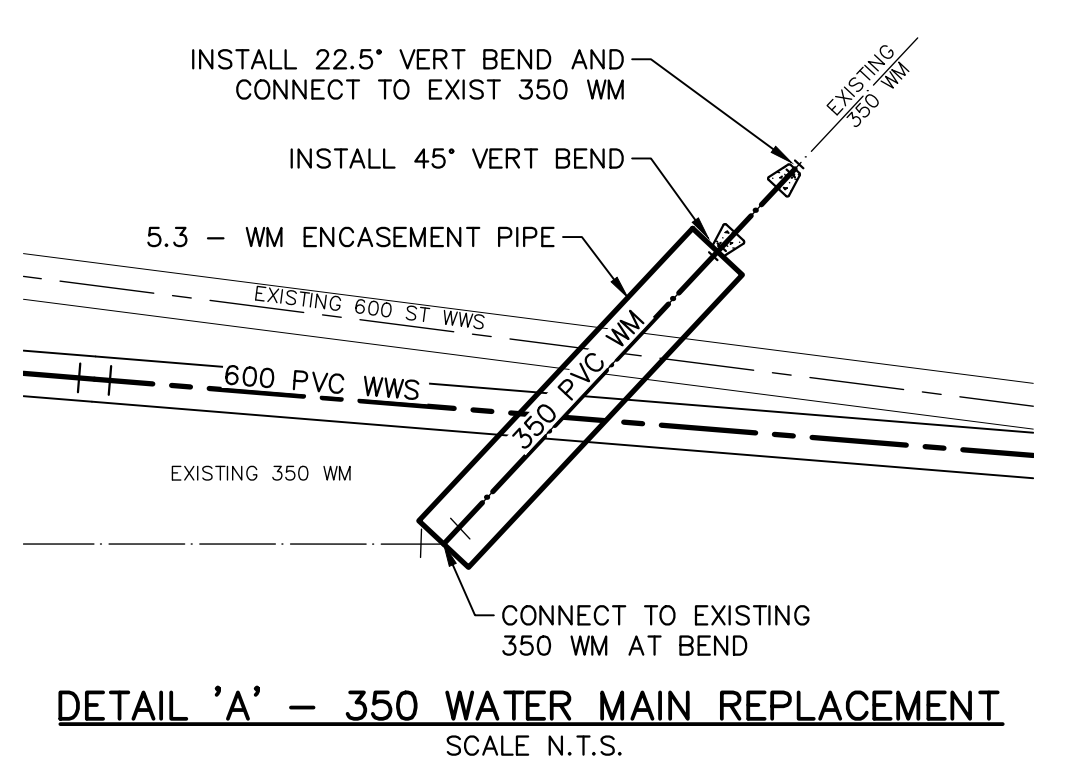
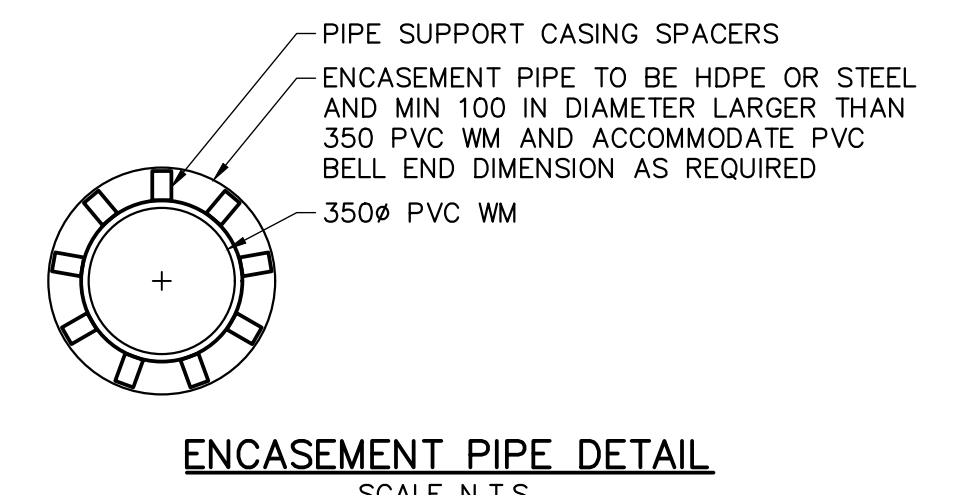
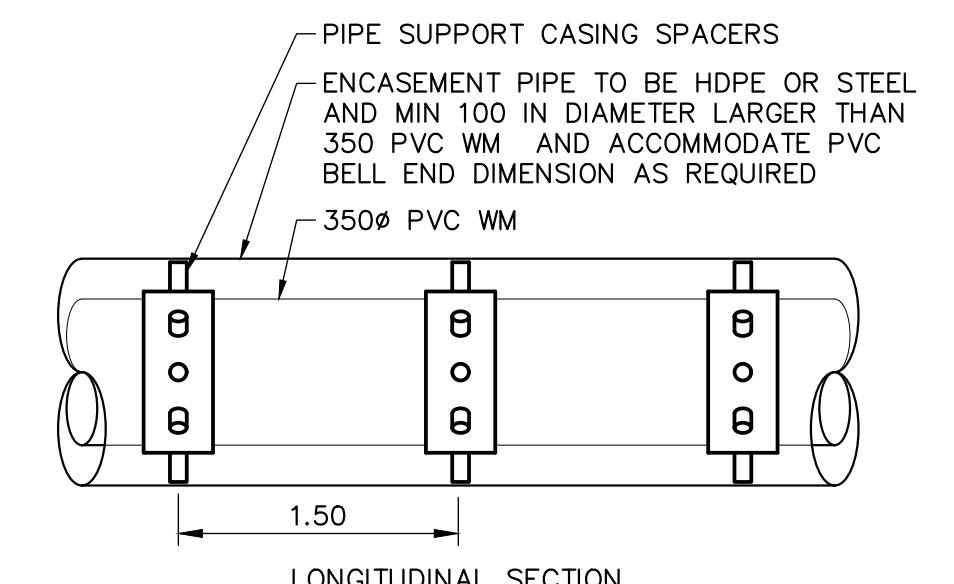


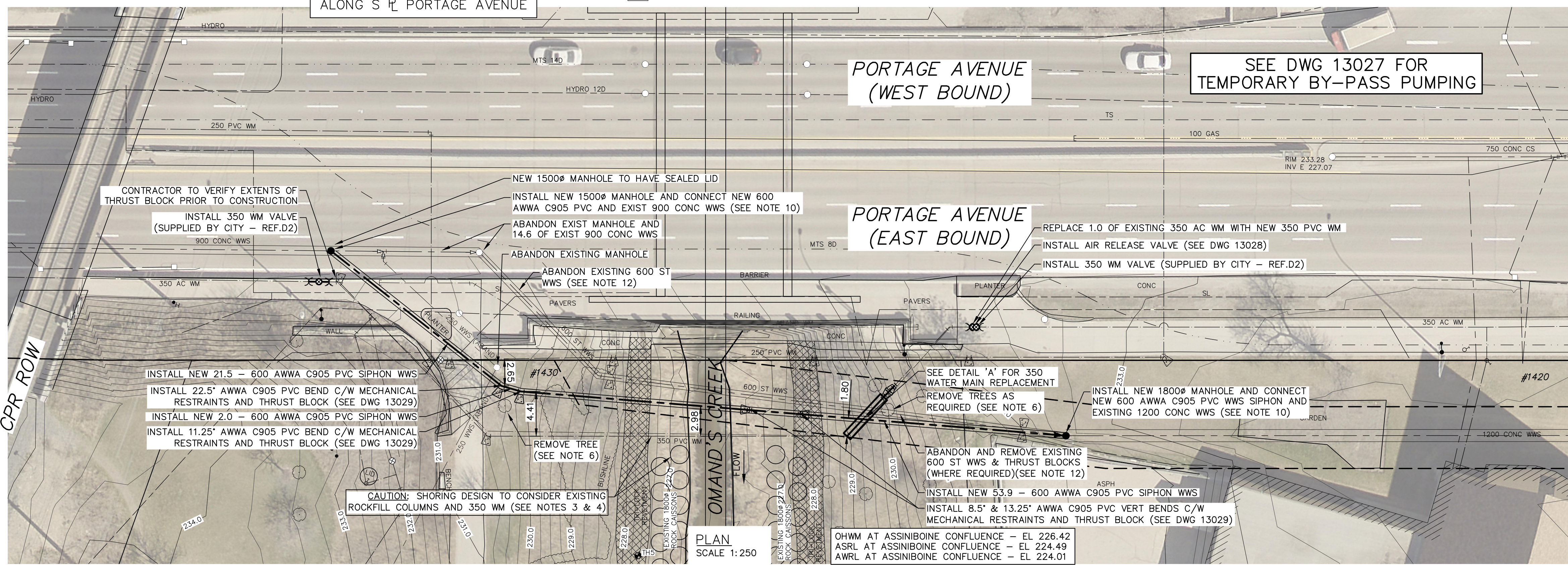
NOTE: CHAINAGES SHOWN ARE ALONG S P PORTAGE AVENUE

GENERAL NOTES:

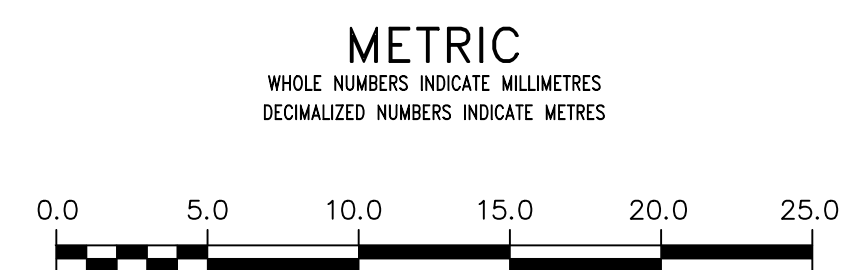
- ALL EXCAVATED MATERIAL TO BE REMOVED FROM SITE (NO STOCKPILING).
 - THE AVERAGE WINTER RIVER LEVEL (AWRL) AT THE ASSINIBOINE RIVER CONFLUENCE (APPROX 370.0 DOWNSTREAM FROM PROJECT SITE) IS ELEV 224.01. AS SUCH, OMAND'S CREEK IS EXPECTED TO HAVE MINIMAL RUNOFF AND/OR FROZEN TO CREEK BOTTOM THROUGHOUT AT TIME OF CONSTRUCTION. (REFERENCE CONTRACT SECTION D2)
 - CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO PROTECT EXISTING INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO THE ADJACENT BRIDGE STRUCTURE, EXISTING 1800# 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.
 - 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.
 - 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.
 - CONTRACTOR SHALL MARK TREES REQUIRED TO BE REMOVED PRIOR TO START OF CONSTRUCTION FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR.
- SIPHON REPLACEMENT NOTES:**
- SIPHON SHALL BE PRESSURE TESTED IN ACCORDANCE WITH CW2110.
 - 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.
 - 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.
 - 600 AWWA C905 PVC TO 1500# MANHOLE TO BE REINFORCED CONCRETE COLLAR. 600 AWWA C905 PVC TO 1800# MANHOLE TO BE REINFORCED CONCRETE COLLAR IN CONJUNCTION WITH THRUST BLOCK (SEE DWG 13029).
 - CONTRACTOR TO PROVIDE TEMPORARY BY-PASS PUMPING DURING CONSTRUCTION (SEE DWG 13027).
 - 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.



ENGINEERS
GEOSCIENTISTS
MANITOBA
 Certificate of Authorization
 KGS Group
 No. 245



FOR INDEX PAGE
 SEE DWG 13025



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 21072 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.		
1	RE-ISSUED FOR TENDER 2021 12 02		
0	ISSUED FOR TENDER 2021 11 22 RBO		
NO.	REVISIONS	DATE	BY

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 12 02
PLOT DATE:		2021 12 02			

ENGINEER'S SEAL
 CONSULTANT DRAWING NUMBER
 21-0107-12_13026

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING DIVISION

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

SHEET **3** OF **6**
 CITY DRAWING NUMBER
13026