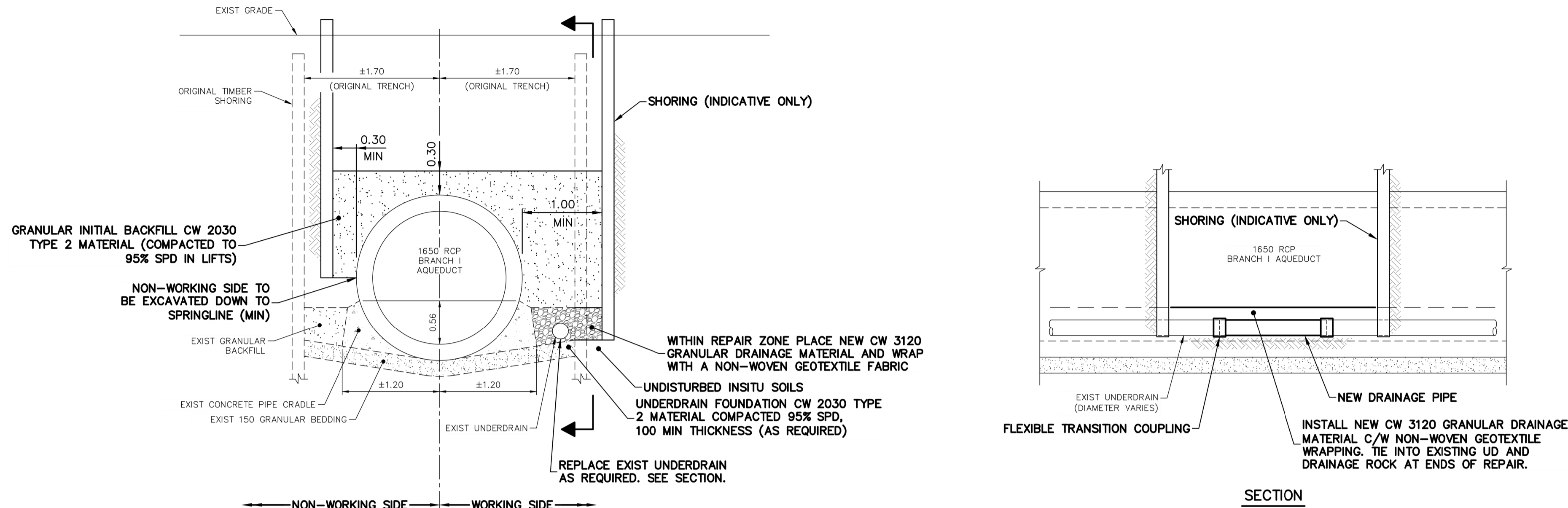
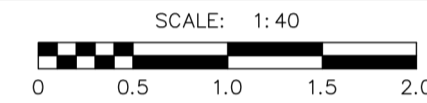


FINAL BACKFILL TO BE TO CLASS 4 STANDARDS (NON-PAVED AREAS) OR GRANULAR TO CLASS 2 STANDARDS WITHIN 1m OF PAVED AREA INCLUDING SIDEWALKS



BRANCH I AQUEDUCT UNDERDRAIN EXTERNAL POINT REPAIR



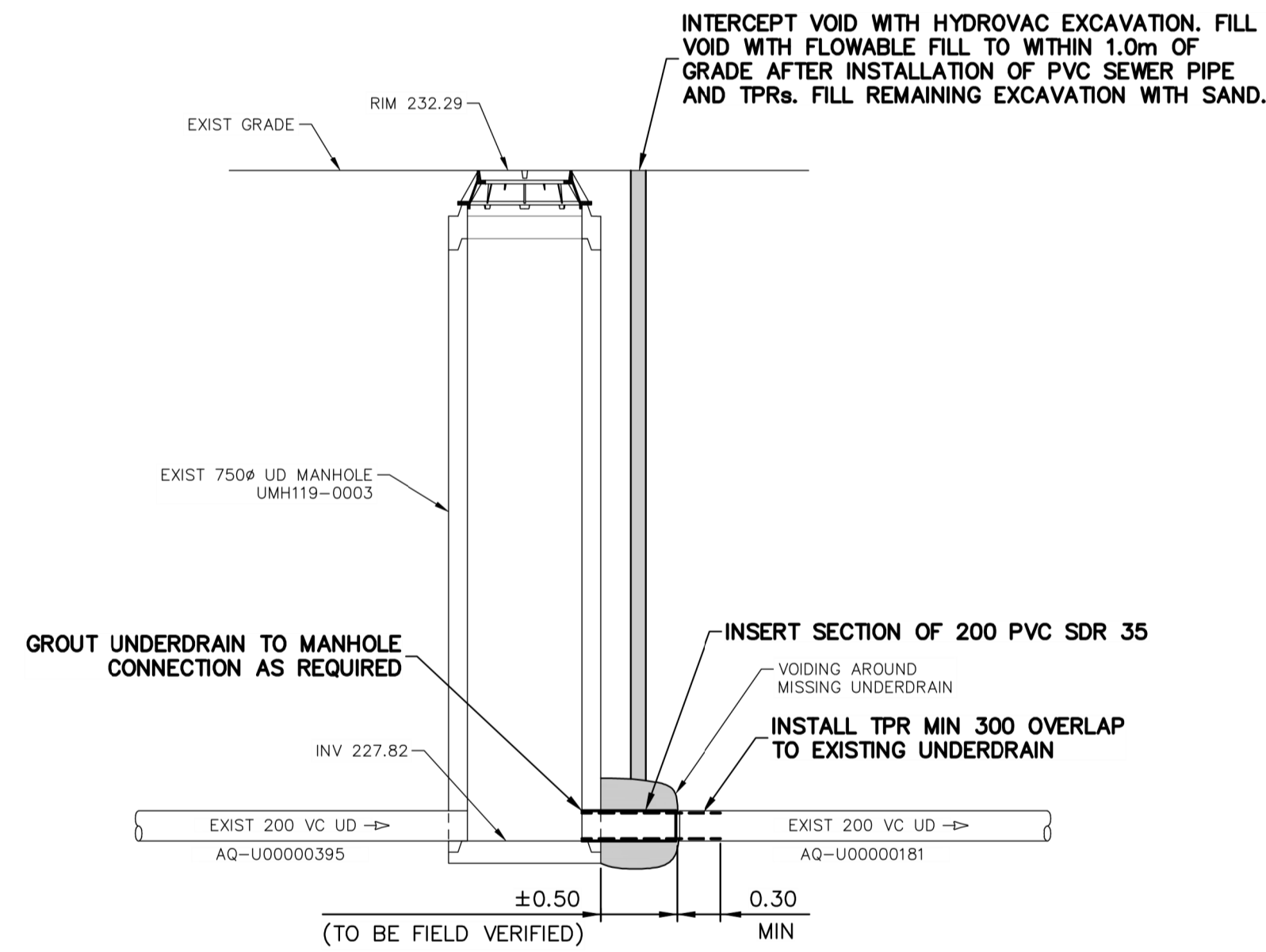
NOTES:

CONSTRUCTION NOTES:

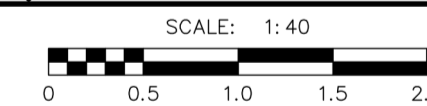
- ALL WORK IN CLOSE PROXIMITY TO THE BRANCH I AQUEDUCT SHALL BE COMPLETED WITH AN ABUNDANCE OF CAUTION AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- BRANCH I AQUEDUCT TO BE LOCATED VIA HYDRO EXCAVATION PRIOR TO PROCEEDING WITH EXCAVATION.
- NO HYDRAULIC OR PNEUMATIC BREAKERS MAY BE USED DURING PAVEMENT REMOVALS OR EXCAVATIONS. NO CONSTRUCTIONS METHODS IMPARTING EXCESSIVE VIBRATIONS MAY BE EMPLOYED IN CLOSE PROXIMITY TO THE BRANCH I AQUEDUCT.
- BRANCH I AQUEDUCT EXCAVATION TO PROCEED CAREFULLY AND UNIFORMLY TO AVOID ASYMMETRIC LOADING ON THE PIPE. EXCAVATIONS BELOW TOP OF PIPE MUST NOT PROGRESS MORE THAN 300 mm AT A TIME ON EITHER SIDE OF THE PIPE
- EXCAVATING MUST BE PROGRESSED WITH SHORING.
- ALL SHORING SYSTEMS SHALL BE CLOSE FITTING.
- SHORING SYSTEMS SHALL NOT IMPART LOADING ON THE BRANCH I AQUEDUCT.
- SHORING SYSTEMS SHALL NOT COME IN CONTACT WITH THE BRANCH I AQUEDUCT, CONCRETE CRADLE, OR UNDERDRAIN.
- ALL EXCAVATIONS SHALL MEET WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- CAREFULLY PLACE INITIAL BACKFILL AROUND UNDERDRAIN AND BRANCH I AQUEDUCT. CARE MUST BE TAKEN TO PROTECT BOTH FROM DAMAGE DURING PLACEMENT AND COMPACTION OF BACKFILL MATERIALS.
- SHORING REMOVAL (IF REQUIRED) SHALL BE COMPLETED IN A MANNER WHICH NOT DISTURB THE BRANCH I AQUEDUCT, UNDERDRAIN, OR EMBEDMENT MATERIALS.
- IF ORIGINAL TIMBER SHORING PLANKS ARE ENCOUNTERED THEY SHALL NOT BE PUSHED DOWN OR PULLED UP AS THIS COULD LEAD TO MOVEMENT OF THE BRANCH I AQUEDUCT. ORIGINAL SHORING SHALL BE CAREFULLY EXPOSED AND CUT OFF.

UNDERDRAIN EPR CONSTRUCTION NOTES:

- CAREFULLY EXPOSE THE EXISTING UNDERDRAIN, CONCRETE CRADLE, AND ORIGINAL GRANULAR BEDDING.
- REMOVE BROKEN SECTION OF UNDERDRAIN AND ORIGINAL DRAIN ROCK.
- NEATLY CUT EXISTING UNDERDRAIN PIPE TO MAKE CONNECTION.
- INSTALL NEW DRAIN PIPE C/W FLEXIBLE TRANSITION COUPLINGS.
- PLACE NEW CW 3120 GRANULAR DRAINAGE MATERIAL AND WRAP WITH A NON-WOVEN GEOTEXTILE FABRIC.



UMH119-0003/AQ-U00000181 REPAIR DETAIL



FOR INDEX SEE DWG 1-0751A-D0007-001



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
UNLESS OTHERWISE NOTED

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			
NO.	ISSUED FOR CONSTRUCTION	2024/09/23	ADB
NO.	REVISIONS	YYYY/MM/DD	BY

DESIGNED BY	ADB	CHECKED BY	JF
DRAWN BY	DML	APPROVED BY	ADB
SCALE:	HORIZONTAL	RELEASED FOR CONSTRUCTION	JESSICA McCOMBE, P. Eng.
SCALE:	VERTICAL	DATE	SEPTEMBER 23, 2024
PLOT DATE: 2024 09 23		DATE	

ENGINEER'S SEAL

 CONSULTANT DRAWING NUMBER

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING SERVICES DIVISION

BRANCH I AQUEDUCT UNDERDRAIN OUTFALL REPAIRS
BRANCH I AQUEDUCT UNDERDRAIN REPAIRS DETAILS I

SHEET 16 OF 17
 CITY DRAWING NUMBER
 1-0751N-C0013-001