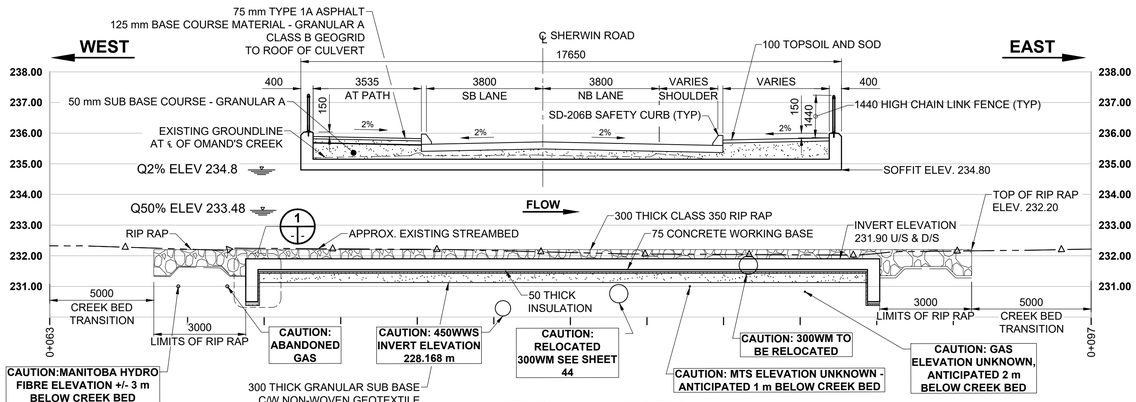
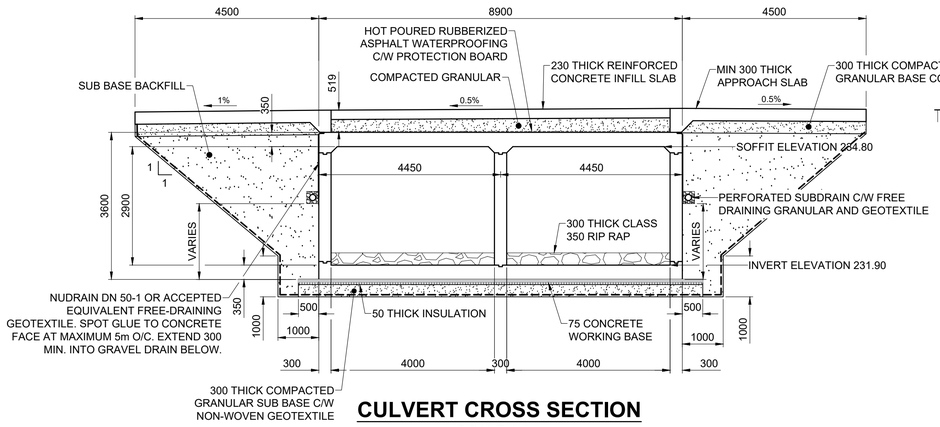


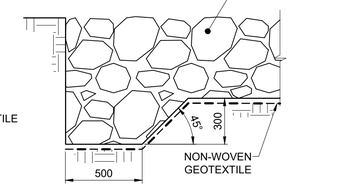
LONGITUDINAL SECTION

SCALE 1:100

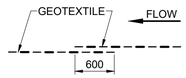


CULVERT CROSS SECTION

SCALE 1:75



EDGE TREATMENT



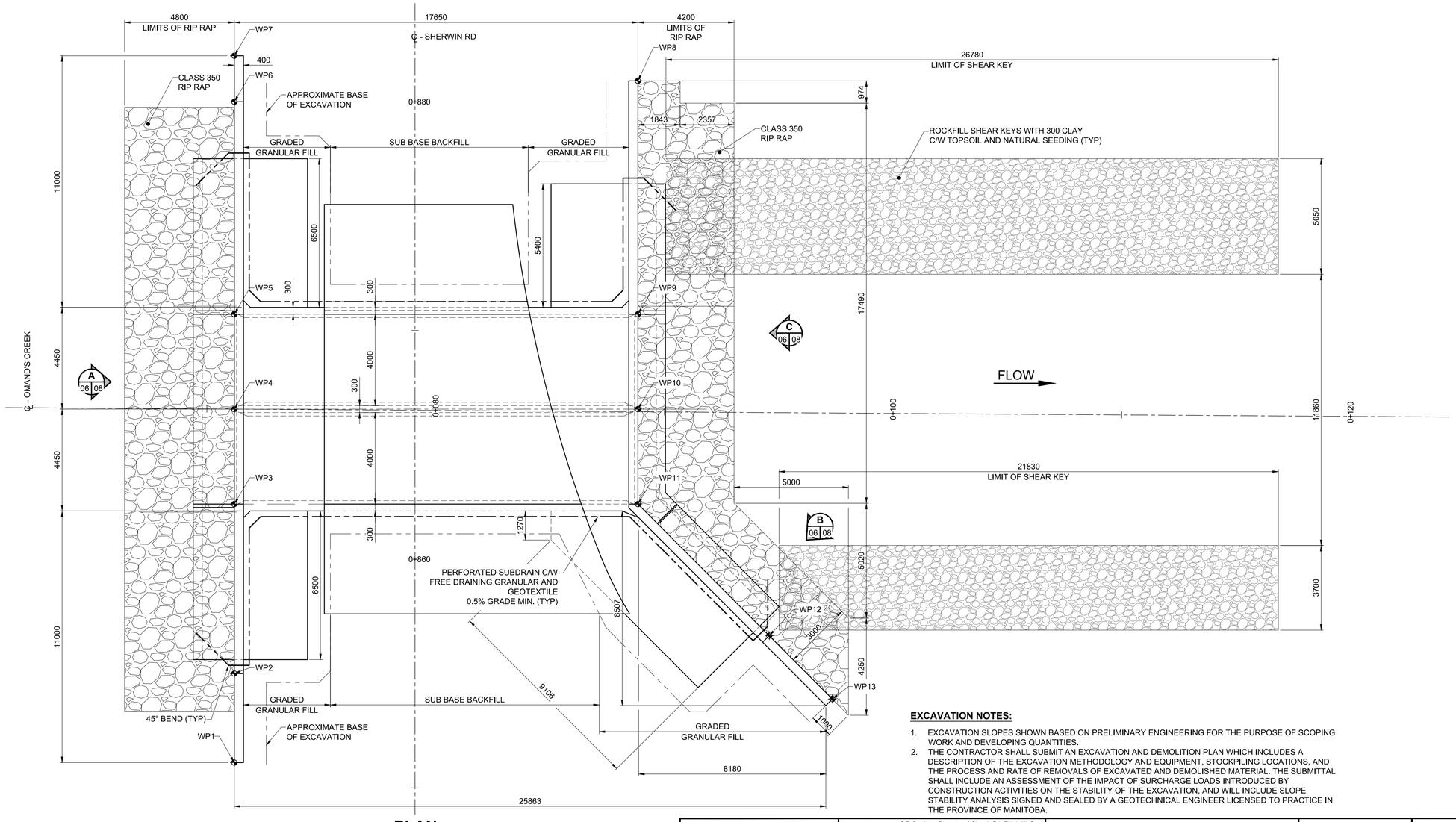
OVERLAPPING DETAILS

RIP RAP DETAILS

SCALE 1:20

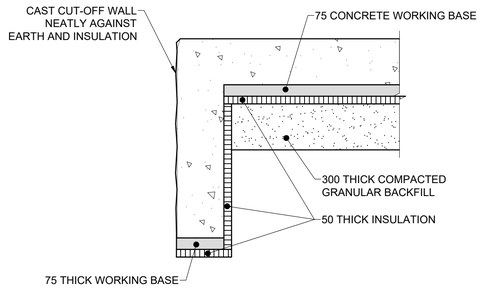
NOTES:

1. RIP RAP EDGE DETAIL SHOWING OUTSIDE EDGE, INSIDE EDGE SIMILAR.
2. ALL GEOTEXTILE SHALL BE NON-WOVEN GEOTEXTILE, CLASS 1 (HEAVY DUTY).
3. GEOTEXTILE SHALL BE PLACED UNDER ALL RIP RAP, OVERLAPPING 600mm IN THE DIRECTION OF FLOW.



PLAN

SCALE 1:100



DETAIL

SCALE: 1:20

EXCAVATION NOTES:

1. EXCAVATION SLOPES SHOWN BASED ON PRELIMINARY ENGINEERING FOR THE PURPOSE OF SCOPING WORK AND DEVELOPING QUANTITIES.
2. THE CONTRACTOR SHALL SUBMIT AN EXCAVATION AND DEMOLITION PLAN WHICH INCLUDES A DESCRIPTION OF THE EXCAVATION METHODOLOGY AND EQUIPMENT, STOCKPILING LOCATIONS, AND THE PROCESS AND RATE OF REMOVALS OF EXCAVATED AND DEMOLISHED MATERIAL. THE SUBMITTAL SHALL INCLUDE AN ASSESSMENT OF THE IMPACT OF SURCHARGE LOADS INTRODUCED BY CONSTRUCTION ACTIVITIES ON THE STABILITY OF THE EXCAVATION, AND WILL INCLUDE SLOPE STABILITY ANALYSIS SIGNED AND SEALED BY A GEOTECHNICAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA.

CULVERT LAYOUT TABLE

WORKING POINT	NORTHING	EASTING	ELEVATION
WP1	10021.721	10005.901	235.872
WP2	10025.609	10005.985	235.946
WP3	10033.018	10006.144	236.020
WP4	10037.167	10006.234	236.042
WP5	10041.316	10006.323	236.063
WP6	10050.603	10006.523	236.016
WP7	10052.613	10006.566	235.994
WP8	10051.134	10024.188	235.430
WP9	10040.936	10023.969	236.054
WP10	10036.787	10023.880	235.981
WP11	10032.638	10023.790	235.902
WP12	10026.762	10029.403	235.562
WP13	10023.933	10032.102	235.399

WORKING POINT NOTES:

1. WORKING POINTS (WP) ARE AT TOP AND OUTSIDE FACE OF WALL.

TENDER No. 24-2020

NOTES:

1. COARSE GRANULAR BACKFILL SHALL BE USED WITHIN THE MINIMUM LIMITS AS SHOWN ON "CROSS SECTION".
2. INSULATION SHALL BE SUPPLIED AND PLACED BY THE CULVERT CONTRACTOR AS FOLLOWS:
   a. INSULATION SHALL BE PLACED UNDER ALL WORKING BASE CONCRETE INCLUDING HEADWALLS AND SHALL EXTEND VERTICALLY BEHIND CUT OFF WALLS AS SHOWN IN "DETAIL 1".
   b. INSULATION SHALL BE 50 mm THICK EXTRUDED POLYETHYLENE PLACE WITH STAGGERED JOINTS.
   c. INSULATION SHALL BE COMPLETELY ENCLOSED IN 6 mil. POLYETHYLENE WITH JOINTS POLY-VINYL TAPED.
3. WORKING BASE SHALL BE LEAN MIX CONCRETE 75 mm THICK.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MORRISON HERSHFIELD
No. 1736

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. 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.

BM 23-018 ELEV 235.300 m — S.E. Cor. Notre Dame Ave. & Sherwin Rd., Tblt. in W. Conc. foundation No. 2070 Notre Dame Ave., 0.8 m S. & 0.7 m below Conc. block of N.W. Cor. of bldg.

No.	REVISIONS	YY/MM/DD	BY
D	ISSUED FOR TENDER	20/07/15	BE
C	ISSUED FOR 100% REVIEW	20/07/10	BE
B	ISSUED FOR 95% REVIEW	20/05/26	BE
A	ISSUED FOR 50% REVIEW	20/04/08	BE

MORRISON HERSHFIELD

DESIGNED BY	TN	CHECKED BY	AGG
DRAWN BY	AH	APPROVED BY	BE
HOR SCALE / VERT SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
DATE		DATE	

PROFESSIONAL'S SEAL
PRELIMINARY DRAWING
NOT TO BE USED FOR CONSTRUCTION

CONSULTANT FILE NAME
1903811 - SHERWIN - GA.DWG

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

RECONSTRUCTION OF SHERWIN ROAD AND REPLACEMENT OF EXISTING CULVERT AT OMAND'S CREEK

GENERAL ARRANGEMENT

CITY DRAWING NUMBER C319-20-06
SHEET 06 OF 44
DRAWING No. 06 REV

ISO A1 - 594mm x 841mm

P:\2019\190381100-Sherwin Road Reconstruction\09. CAD\07 Sheets\Structural\1903811 - Sherwin - GA.dwg Last Saved: 7/15/2020 9:45 AM by AHeppner Plotted: 7/15/2020 10:47 AM by Alex Heppner