

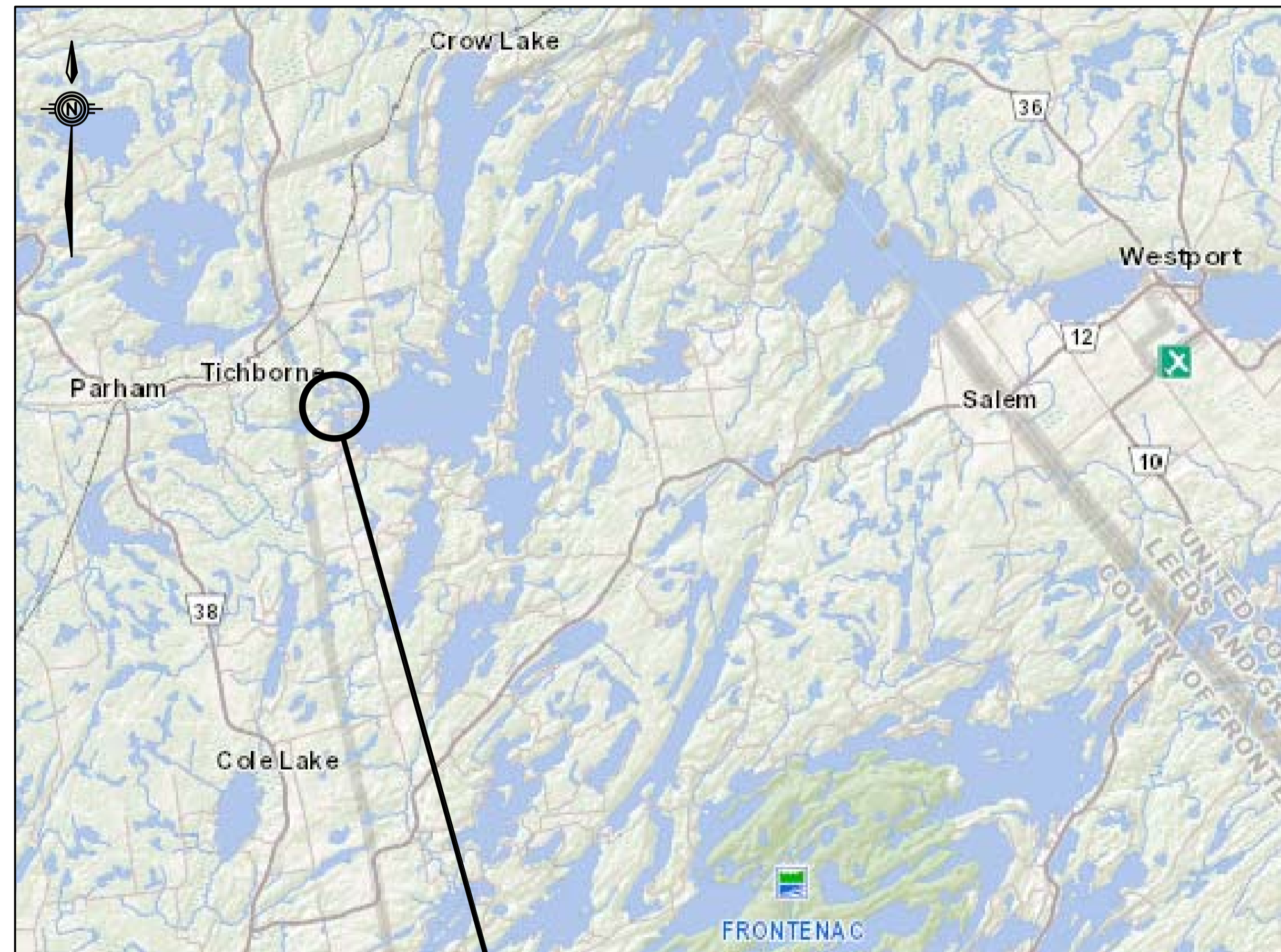


CONTRACT NO. PS-2025-05

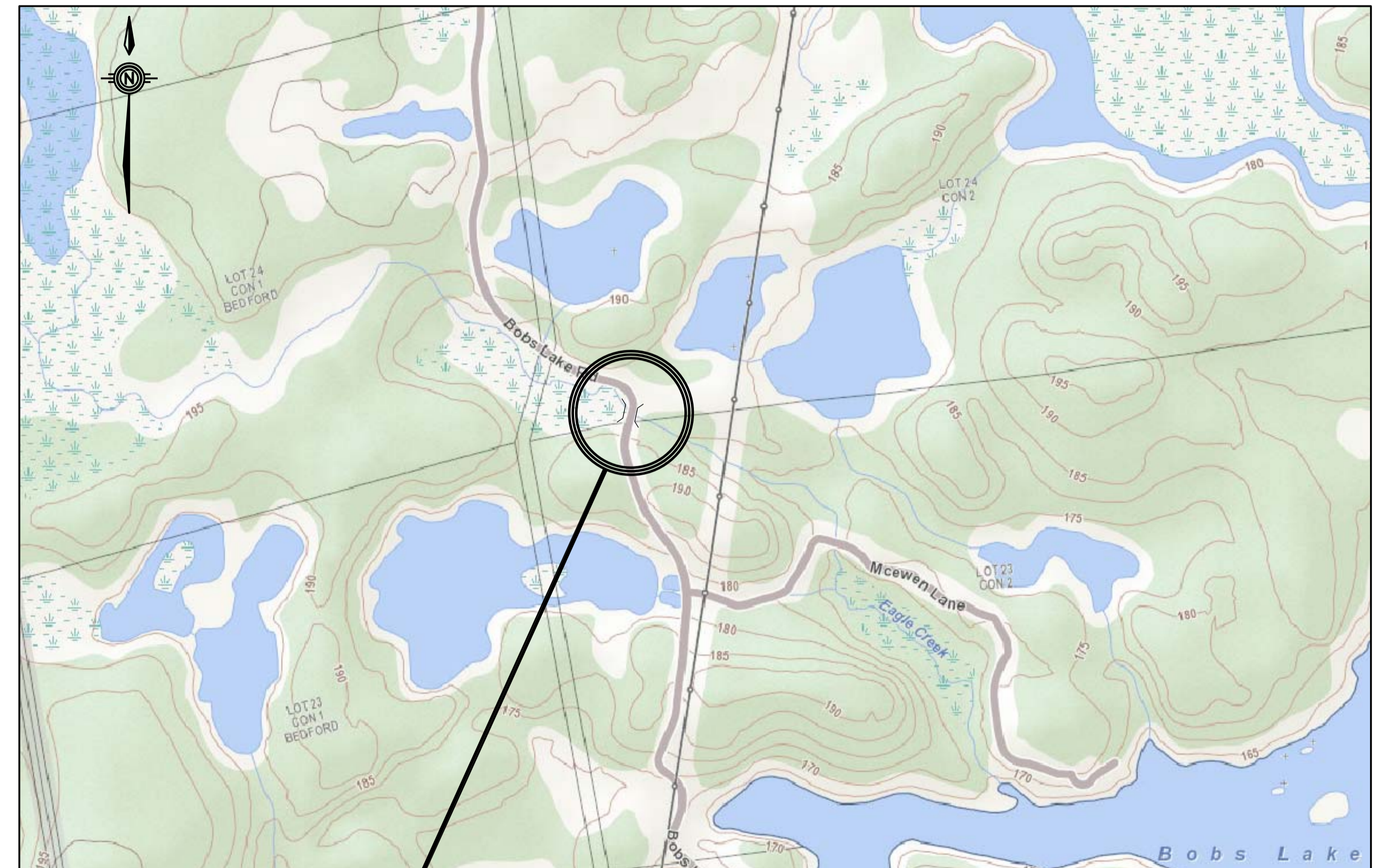
EAGLE CREEK BRIDGE REPLACEMENT

SCHEDULE A – CONTRACT DRAWINGS

TOWNSHIP OF SOUTH FRONTENAC



SITE

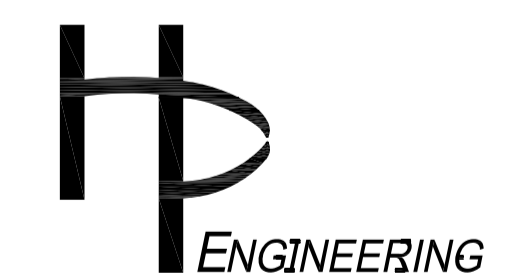


SITE



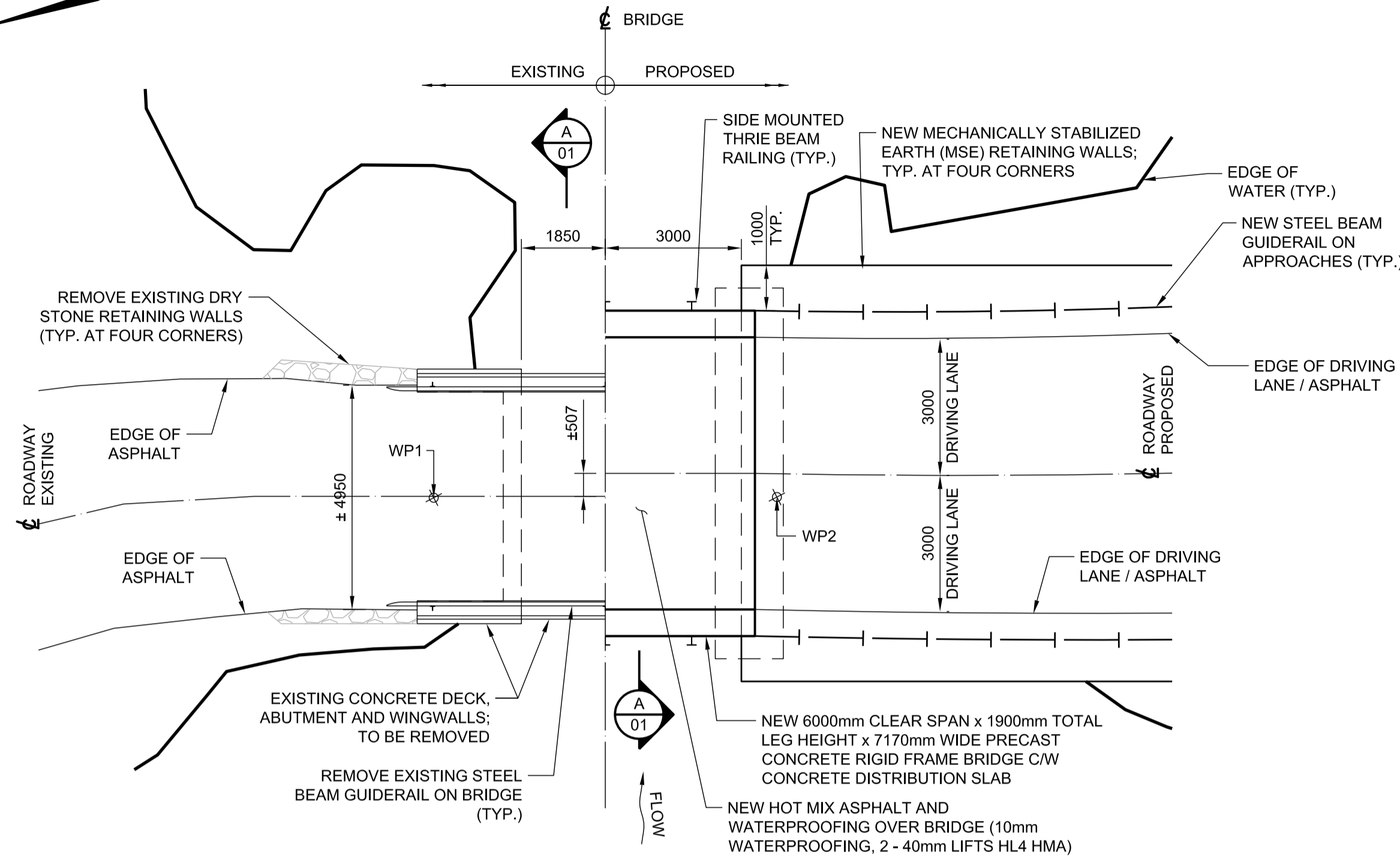
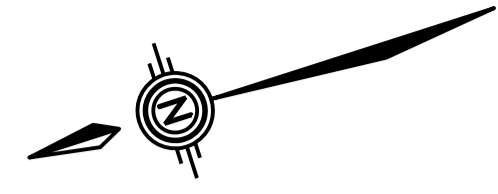
EAGLE CREEK BRIDGE REPLACEMENT

CONTRACT No. PS-2025-05

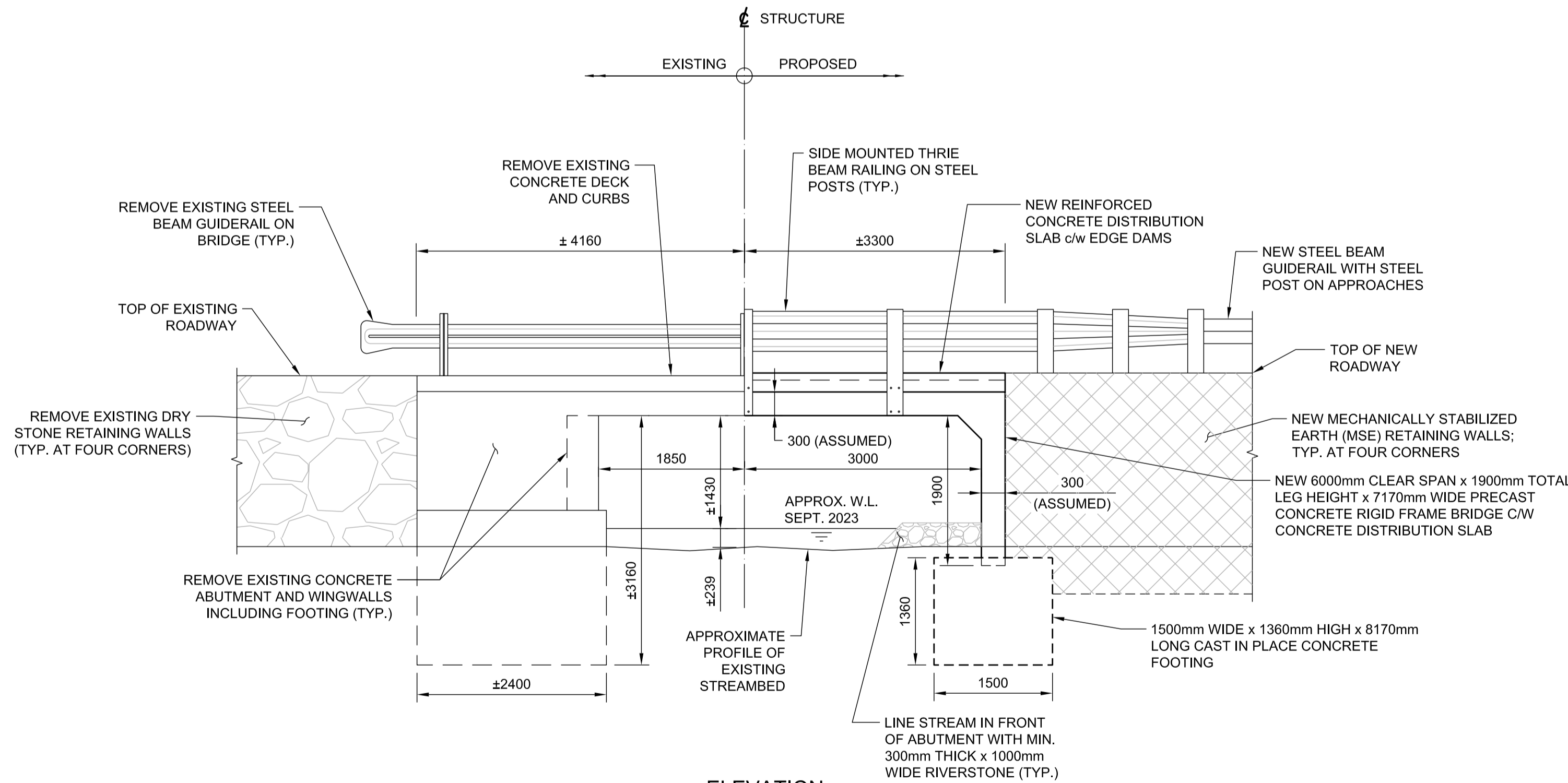


LIST OF DRAWINGS

- COVER SHEET
- 1. GENERAL ARRANGEMENT
- 2. DETOUR ROUTE SIGNAGE
- 3. ROADWAY REMOVALS AND RECONSTRUCTION
- 4. STRUCTURE REMOVALS
- 5. STRUCTURE RECONSTRUCTION
- 6. DISTRIBUTION SLAB AND FOOTING DETAILS
- 7. RETAINING WALL DETAILS



PLAN
1:100



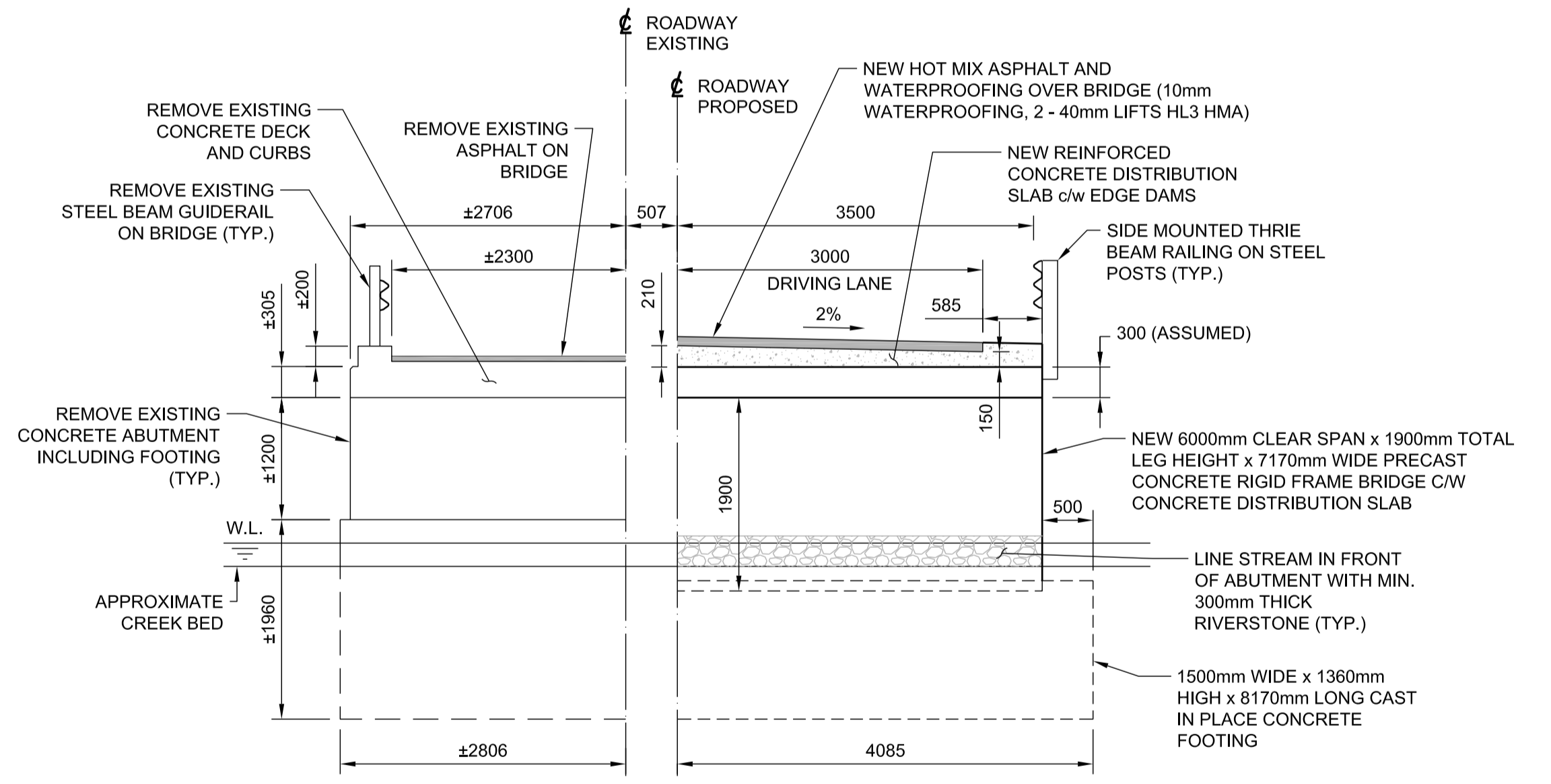
ELEVATION
1:50

SCOPE OF WORK:

- A MOBILIZE TO SITE AND SET UP TRAFFIC CONTROL
- B INSTALL ENVIRONMENTAL PROTECTION / EROSION & SEDIMENT CONTROL MEASURES
- C EXCAVATE ROADWAY EMBANKMENTS, CONSTRUCT TEMPORARY DEWATERING SYSTEM
- D REMOVE ASPHALT OVER STRUCTURE AND ON APPROACHES
- E REMOVE EXISTING CONCRETE DECK, CONCRETE ABUTMENT WALLS AND WINGWALLS INCLUDING FOOTINGS
- F EXCAVATE FOR NEW FOUNDATION
- G CONSTRUCT NEW CAST-IN PLACE REINFORCED CONCRETE FOOTINGS
- H INSTALL NEW PRECAST CONCRETE RIGID FRAME BRIDGE
- I CONSTRUCT CONCRETE DISTRIBUTION SLAB OVER RIGID FRAME UNITS
- J CONSTRUCT MECHANICALLY STABILIZED EARTH RETAINING WALLS
- K BACKFILL EXCAVATED AREAS TO FINAL FINISHED GRADE, INCLUDING ROADWAY BASE AND SUBBASE
- L PLACE ROCK PROTECTION ALONG EMBANKMENTS AND IN STREAM BED
- M REMOVE TEMPORARY CREEK DEWATERING SYSTEM AND REINSTATE FLOWS THROUGH NEW STRUCTURE
- N PLACE HOT RUBBERIZED ASPHALT AND PROTECTION BOARD OVER DISTRIBUTION SLAB
- O PLACE HOT-MIX ASPHALT OVER BRIDGE DECK AND ON APPROACHES
- P SUPPLY AND INSTALL THRIE BEAM RAILING POSTS AND THRIE BEAM RAIL OVER BRIDGE DECK AND RETAINING WALLS, INCLUDING THRIE BEAM TO STEEL BEAM TRANSITION RAILS (AT END OF STRUCTURE)
- Q INSTALL NEW STEEL BEAM GUIDE RAIL ON APPROACHES
- R RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS, INCLUDING PLACEMENT OF TOPSOIL, SEED AND MULCH AS REQUIRED
- S REMOVE ENVIRONMENTAL PROTECTION AND EROSION & SEDIMENT CONTROL MEASURES
- T REMOVE TRAFFIC CONTROL, RE-OPEN ROADWAY TO TRAFFIC, AND DE-MOBILIZE FROM SITE

GENERAL NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
2. CLASS OF CONCRETE: EXPOSURE CLASS C-1 (35MPa) TO CSA A23.1.
3. DESIGN LOADING: CHBDC, CAN/CSA S6-19.
4. CLEAR COVER TO REINFORCING STEEL SHALL BE 70mm ± 20 UNLESS NOTED OTHERWISE.
5. REINFORCING STEEL SHALL BE GRADE 400W AND SHALL BE HOT DIPPED GALVANIZED TO CSA G-164.
6. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 20mm x 20mm.
7. THE CONTRACTOR SHALL DESIGN THE MECHANICALLY STABILIZED EARTH RETAINING WALLS AND THE PRE-CAST CONCRETE RIGID FRAME. THE RETAINING WALLS AND RIGID FRAME SHALL BE DESIGNED IN ACCORDANCE WITH CHBDC, CAN/CSA S6-19. THE DESIGNS SHALL BE STAMPED BY 2 PROFESSIONAL ENGINEERS LICENSED IN ONTARIO (DESIGN AND CHECK ENGINEER), BOTH OF WHICH POSSESS A MINIMUM OF \$2,000,000.00 OF PROFESSIONAL LIABILITY INSURANCE. THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS (FOR ALL CONTRACTOR DESIGN ITEMS) SHOWING ALL DETAILS REQUIRED FOR CONSTRUCTION TO BE REVIEWED AND APPROVED BY CONTRACT ADMINISTRATOR PRIOR TO ORDERING MATERIALS. SHOP DRAWINGS SHALL INCLUDE MAXIMUM AND MINIMUM REACTIONS (HORIZONTAL AND VERTICAL) AT THE BASE OF THE RIGID FRAME FOR BOTH SLS AND ULS CASES.
8. TEMPORARY DEWATERING/CREEK BYPASS SHOP DRAWINGS SHALL BE SUBMITTED TO CONTRACT ADMINISTRATOR FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION. TEMPORARY BYPASS CHANNEL / TRENCH SHALL BE REINSTATED WITH NATIVE MATERIAL; REFER TO CONTRACT SPECIFICATIONS
9. ALL CONSTRUCTION PROCEDURES AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO PROVINCIAL STANDARDS. ALL MATERIAL SUPPLIED SHALL BE FROM MTO DESIGNATED SOURCES, WHERE APPLICABLE.
10. ALL EXISTING CONDITIONS SHOWN ON THE EXISTING CONTRACT DRAWINGS ARE TAKEN FROM FIELD MEASUREMENTS AND AVAILABLE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.
11. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR HIS ENVIRONMENTAL PROTECTION PLAN AND EROSION AND SEDIMENT CONTROL PLAN FROM ALL AUTHORITIES HAVING JURISDICTION. THE EXISTING STREAMBED AND SURROUNDING AREAS SHALL BE FULLY PROTECTED AT ALL TIMES FOR THE DURATION OF THE WORK.
12. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
13. THE CONTRACTOR'S PRICE FOR THE WORK SHALL INCLUDE ALL LABOUR, EQUIPMENT, MATERIAL AND TRANSPORTATION NECESSARY TO COMPLETE THE WORK, INCLUDING ANY AND ALL INCIDENTAL WORK WHETHER OR NOT EXPLICITLY DETAILED ON THE CONTRACT DRAWINGS BUT REQUIRED FOR PROPER PERFORMANCE AND COMPLETION OF THE WORKS AS PER THE DRAWINGS AND SPECIFICATIONS.
14. ALL TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AS PER BOOK 7 OF ONTARIO TRAFFIC MANUAL. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR THE SAFETY OF PEDESTRIANS AND VEHICULAR TRAFFIC, HIS WORKERS AND THE GENERAL PUBLIC AT ALL TIMES DURING CONSTRUCTION.
15. THE FINAL LOCATION AND OVERALL EXTENT OF ALL WORK UNDER THIS CONTRACT WILL BE AS DIRECTED / DELINEATED ON SITE BY THE ENGINEER.
16. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
17. THE SCOPE OF WORK OUTLINED ON THIS DRAWING IS PROVIDED FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS EXHAUSTIVE.



SECTION A-A
1:50

			NO.	REVISION	BY	DATE	TOWNSHIP OF SOUTH FRONTENAC EAGLE CREEK BRIDGE REPLACEMENT GENERAL ARRANGEMENT	DATE: FEB 2025				
			1	ISSUED FOR TENDER	T.D.	25/02/25		Dwn. M.P. Chk. T.D.				
										PROJECT TITLE	Scale: AS SHOWN	
										DRAWING TITLE	CONTRACT NO. PS-2025-05 SHEET 2 OF 8 DWG. NO. 01	



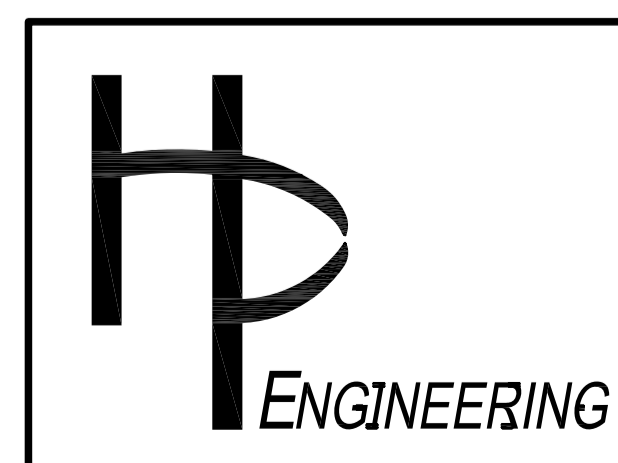
NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
2. ALL TRAFFIC CONTROL OPERATIONS SHALL BE CARRIED OUT TO AT LEAST THE MINIMUM STANDARDS AS SET FORTH IN BOOK 7 (ONTARIO TRAFFIC MANUAL).
3. LOCATION, OFFSET, HEIGHT, ETC. OF ALL SIGNAGE SHALL BE IN ACCORDANCE WITH BOOK 7.
4. ALL SIGNAGE AND BARRICADES WILL BE REQUIRED FOR THE ENTIRE DURATION OF CONSTRUCTION.
5. THE FINAL LOCATION AND OVERALL NUMBER OF SIGNS MAY BE ADJUSTED BASED ON FIELD REQUIREMENTS. THE SIGNAGE LAYOUT AS SHOWN ON THIS DRAWING SHALL BE USED FOR BIDDING PURPOSES.
6. ROADWAY CLOSURE AND DETOUR ROUTE SIGNING SHOWN ON THIS DRAWING APPLIES TO ROAD CLOSURE/ TRAFFIC DETOUR AND IS NOT TO BE CONSTRUED AS A COMPLETE OR EXHAUSTIVE DEPICTION OF ALL TRAFFIC CONTROL REQUIRED DURING CONSTRUCTION. ALL OTHER REQUIRED TRAFFIC CONTROL AS PER BOOK 7 (i.e. CONSTRUCTION ZONE SIGNING, FLAG PERSONS FOR LOADING / UNLOADING OF MATERIALS, ETC.) TO PROTECT AND MAINTAIN THE SAFETY OF THE GENERAL PUBLIC AND INDIVIDUAL WORKERS REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S SUBMITTED TRAFFIC CONTROL/ TRAFFIC MANAGEMENT PLAN.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION AND DETOUR SIGNAGE FOR THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A TRAFFIC MANAGEMENT PLAN INCLUDING DRAWINGS SHOWING ALL CONSTRUCTION AND DETOUR SIGNS AND DEVICES TO THE CONTRACT ADMINISTRATOR TWO (2) WEEKS PRIOR TO STARTING WORK.
8. THE CONTRACTOR SHALL INSPECT ALL TRAFFIC CONTROL AND DETOUR SCHEMES AND ENSURE PROPER INSTALLATIONS ARE MAINTAINED FOR THE DURATION OF THE CONTRACT. INSPECTIONS SHALL BE PERFORMED PER BOOK 7 BUT NO LESS THAN ONCE PER DAY. THE CONTRACTOR SHALL MAINTAIN A DAILY LOG OF INSPECTIONS AND MAKE THE LOG AVAILABLE TO THE CONTRACT ADMINISTRATOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DAILY RELOCATION OF TEMPORARY BARRIERS OR OTHER TRAFFIC APPURTENANCES TO ALLOW CONSTRUCTION ACCESS AS REQUIRED.
10. TC-67 SIGN TEMPLATE TO READ AS FOLLOWS:

"BOBS LAKE RD.
CLOSED AT
MCEWEN LN."

PRIOR TO THE FABRICATION OF THE SIGNS, THE CONTRACTOR SHALL SUBMIT A SIGN TEMPLATE TO THE CONTRACT ADMINISTRATOR FOR REVIEW.

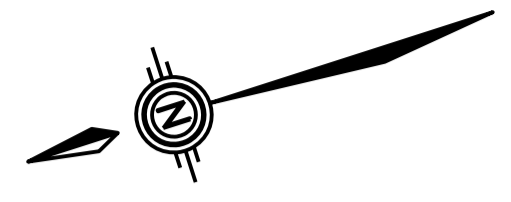
SIGN ID	SIGN TYPE	TOTAL NUMBER REQUIRED
1	TC-67, TC-10	3
2	TC-10D w / DETOUR TAB	2
3	TC-10C w / DETOUR TAB	8
4	TC-10AL w / DETOUR TAB	4
5	TC-10AR w / DETOUR TAB	3
6	TC-10BL w / DETOUR TAB	4
7	TC-10BR w / DETOUR TAB	3
8	RB-92 c/w FLASHER	2
9	TC-7, TC-7A, TC-7B c/w FLASHER	2
10	TC-53A BARRICADE	2
11	TC-5	3



NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	25/02/25

CLIENT		DATE: FEB 2025
TOWNSHIP PF SOUTH FRONTENAC		Dwn. M.P. Chk. T.D.
PROJECT TITLE		Scale: AS SHOWN
EAGLE CREEK BRIDGE REPLACEMENT		Des. M.P. Chk. T.D.
DRAWING TITLE		CONTRACT NO. PS-2025-05
DETOUR ROUTE SIGNAGE		SHEET 3 OF 8
		DWG. NO. 02

DATE: FEB 2025
Dwn. M.P. Chk. T.D.
Scale: AS SHOWN
Des. M.P. Chk. T.D.
CONTRACT NO. PS-2025-05
SHEET 3 OF 8
DWG. NO. 02



NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
- EXISTING HYDRO POLE, OVERHEAD UTILITIES AND BURIED UTILITIES ARE SHOWN SCHEMATICALLY ONLY AND DO NOT REPRESENT ALL UTILITIES / OVERHEAD WIRES.
- TOP LIFT OF ASPHALT SHALL BE PLACED IN A CONTINUOUS, UNIFORM 50mm THICK LIFT FROM LIMITS OF REMOVAL ON APPROACHES.
- GUIDERAIL MOUNTING HEIGHT SHALL ACCOUNT FOR NEW ASPHALT THICKNESS. GUIDERAIL END TREATMENTS SHALL BE FLARED AWAY FROM THE ROADWAY AS PER THEIR RESPECTIVE OPSD. ACCEPTABLE SBEAT END TREATMENTS SHALL INCLUDE:
 - MASH SOFTSTOP TERMINAL SYSTEM, OPSD 922.165
 - MASH MAX-TENSION TERMINAL SYSTEM, OPSD 922.171
 - MASH SEQUENTIAL KINKING TERMINAL SYSTEM, OPSD 922.186
- ALL DISTURBED AREAS SHALL BE COVERED WITH MIN. 100mm OF TOPSOIL AND RESTORED WITH HYDRAULIC SEED (STANDARD ROADSIDE MIX) AND MULCH.
- PAVEMENT MARKINGS SHALL BE APPLIED TO THE LIMITS OF ASPHALT REMOVALS. NEW PAVEMENT MARKINGS SHALL INCLUDE A SOLID YELLOW CENTERLINE (10cm WIDE).
- LINE PAINTING SHALL BE COMPLETED AS PER THE ONTARIO TRAFFIC MANUAL BOOK 11 REQUIREMENTS.
- GRADE IN FRONT OF EACH MSE WALL SHALL BE GRADED LINEARLY FROM THE START OF THE WALL (AT THE BRIDGE) TO THE END OF THE WALL.
- PLACE RIVERSTONE ROCK PROTECTION IN FRONT OF ABUTMENTS (MIN. 1000mm WIDE x 300mm DEEP STRIP).
- PLACE R-10 RIP-RAP OVER GEOTEXTILE ON EMBANKMENTS AT ENDS OF MSE WALLS (±5m² PER CORNER)
- PLACE R-50 RIP-RAP OVER GEOTEXTILE ALONG BASE OF MSE WALL AT EACH CORNER (MIN. 1000mm WIDE x 300mm DEEP STRIP).

LEGEND:

- SBGR: STEEL BEAM GUIDERAIL
- SBEAT: STEEL BEAM ENERGY ATTENUATING TERMINAL
- BM: LOCAL BENCHMARK
- WP: WAYPOINT

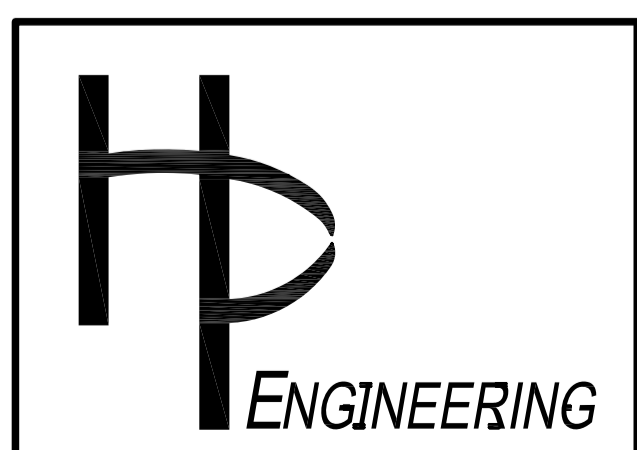
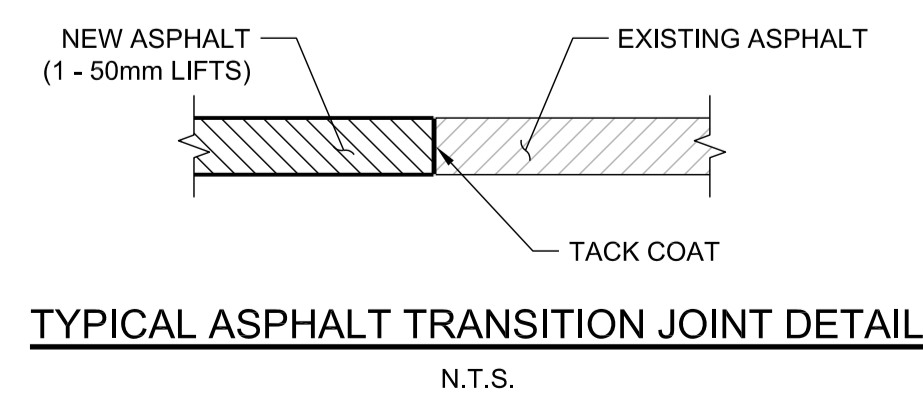
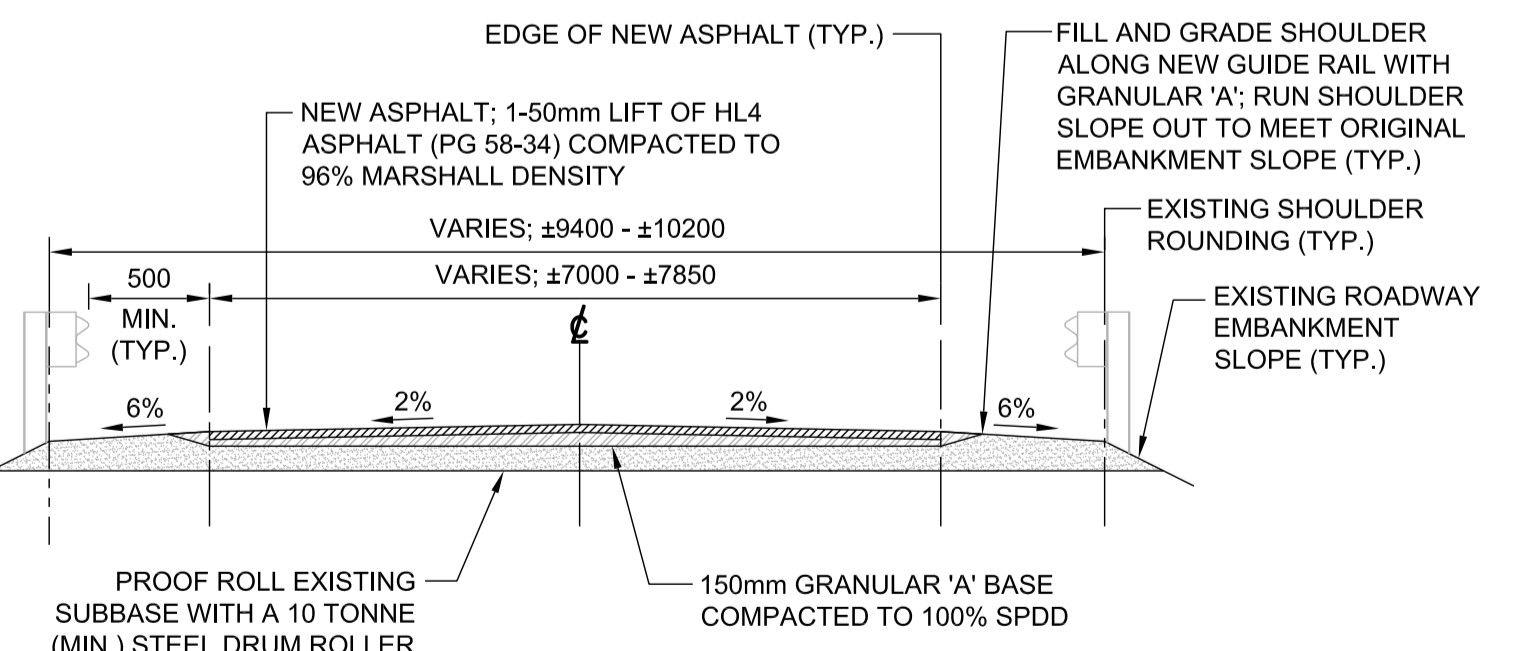
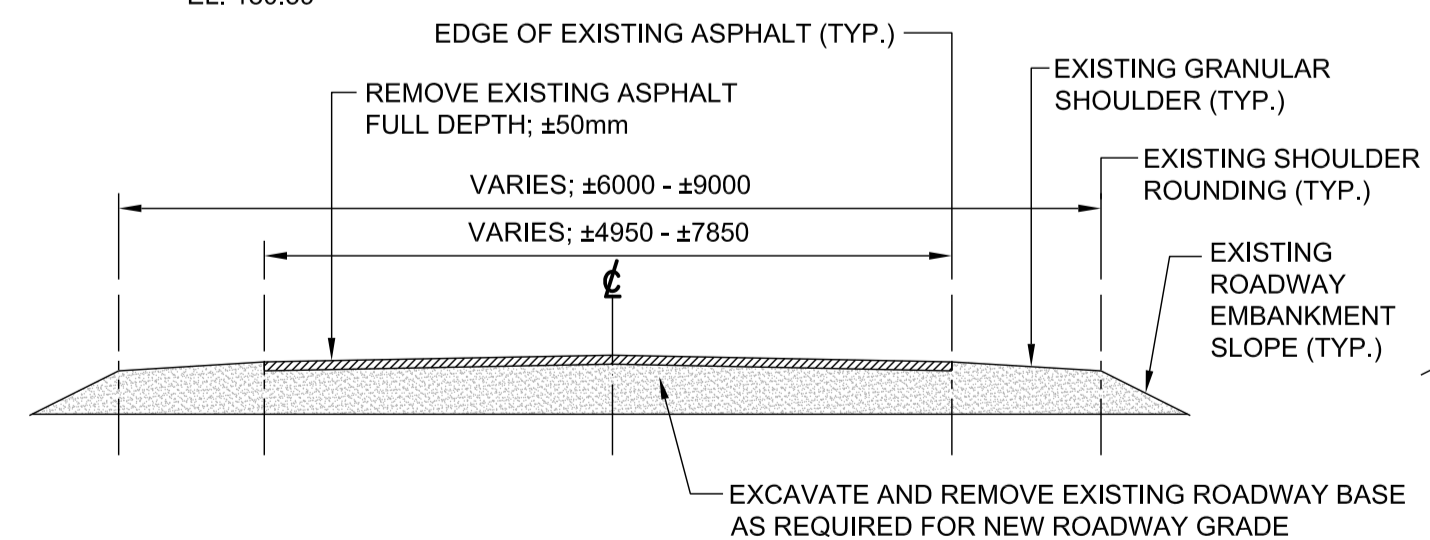
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WP 2	368763.83	4946474.55	180.87
BM 1	368773.02	4946510.34	181.54
BM 2	368771.38	4946457.87	179.94
BM 3	368748.16	4946454.14	180.59

APPROACH GUIDERAIL AND END TREATMENT REQUIREMENTS	
NORTHEAST	1905 - THRIE BEAM TRANSITION RAIL (OPSD 912.630) 2858 - TYPE M TRANSITION RAIL (OPSD 912.124) 11430 - SBGR (OPSD 912.125, OPSD 912.186) 3810 - CURVED SBGR (D = 70', R = 3.19m) (OPSD 912.531) 3810 - SBGR (OPSD 912.125, OPSD 912.186) 2858 - TYPE M20 LEAVING END TREATMENT (OPSD 912.255)
NORTHWEST	1905 - THRIE BEAM TRANSITION RAIL (OPSD 912.630) 2858 - TYPE M TRANSITION RAIL (OPSD 912.124) 3810 - SBGR (OPSD 912.125, OPSD 912.186) 15000 - SBEAT MASH SYSTEM
SOUTHEAST	1905 - THRIE BEAM TRANSITION RAIL (OPSD 912.630) 2858 - TYPE M TRANSITION RAIL (OPSD 912.124) 3810 - SBGR (OPSD 912.125, OPSD 912.186) 15000 - SBEAT MASH SYSTEM
SOUTHWEST	1905 - THRIE BEAM TRANSITION RAIL (OPSD 912.630) 2858 - TYPE M TRANSITION RAIL (OPSD 912.124) 3810 - SBGR (OPSD 912.125, OPSD 912.186) 15000 - SBEAT MASH SYSTEM

PLAN - REMOVALS
1:200

PLAN - RECONSTRUCTION
1:200

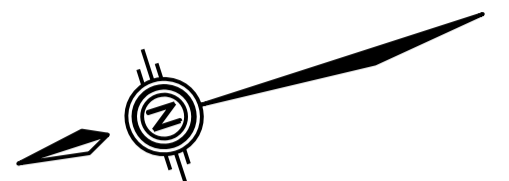
QUADRANT	LENGTH	ELEVATION
NORTHEAST	9.0m	GRADE T/O WALL @ BRIDGE: EL. 180.78 GRADE B/O WALL @ BRIDGE: EL. 179.24 GRADE T/O WALL @ END: EL. 180.78 GRADE B/O WALL @ END: EL. 179.89
NORTHWEST	8.0m	GRADE T/O WALL @ BRIDGE: EL. 180.78 GRADE B/O WALL @ BRIDGE: EL. 179.27 GRADE T/O WALL @ END: EL. 180.78 GRADE B/O WALL @ END: EL. 180.03
SOUTHEAST	11.0m	GRADE T/O WALL @ BRIDGE: EL. 180.78 GRADE B/O WALL @ BRIDGE: EL. 179.22 GRADE T/O WALL @ END: EL. 180.88 GRADE B/O WALL @ END: EL. 180.08
SOUTHWEST	16.0m	GRADE T/O WALL @ BRIDGE: EL. 180.78 GRADE B/O WALL @ BRIDGE: EL. 179.27 GRADE T/O WALL @ END: EL. 180.99 GRADE B/O WALL @ END: EL. 180.53



NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	25/02/25

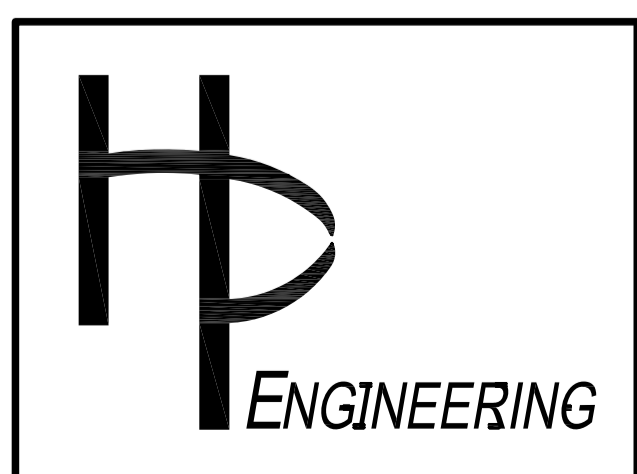
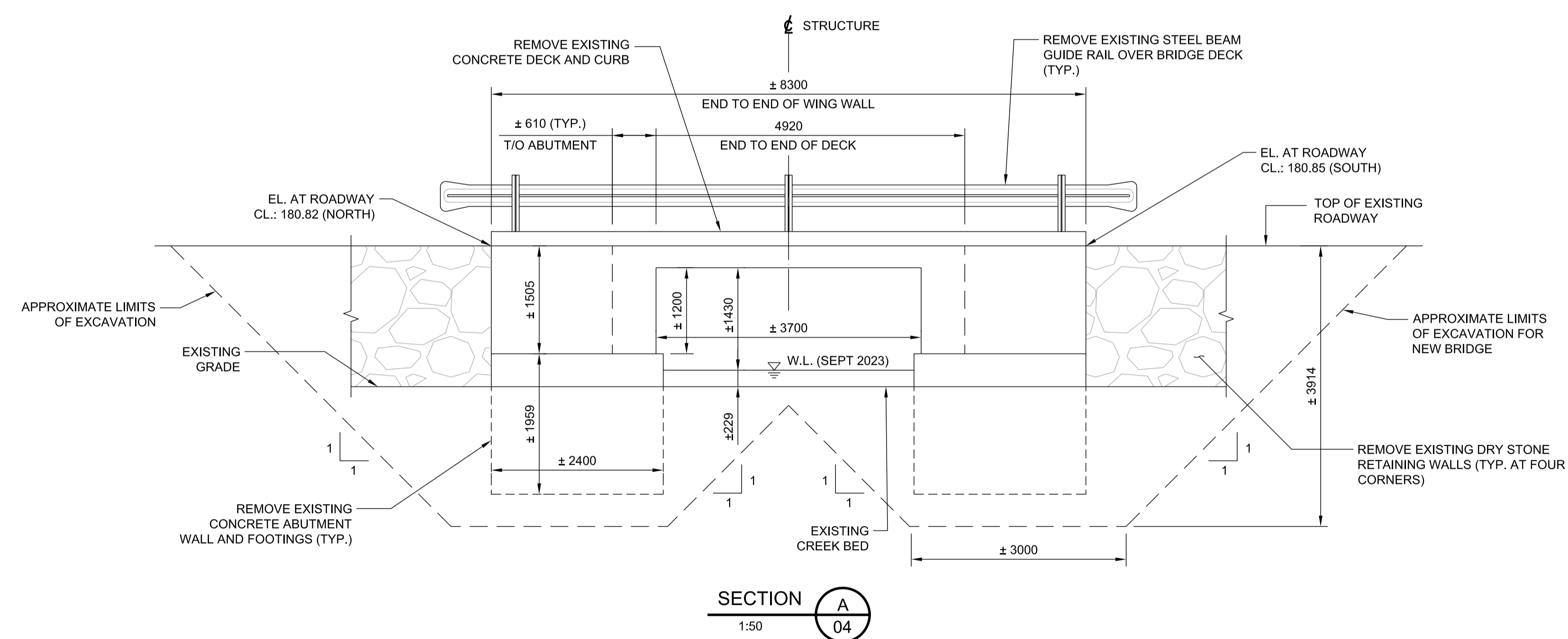
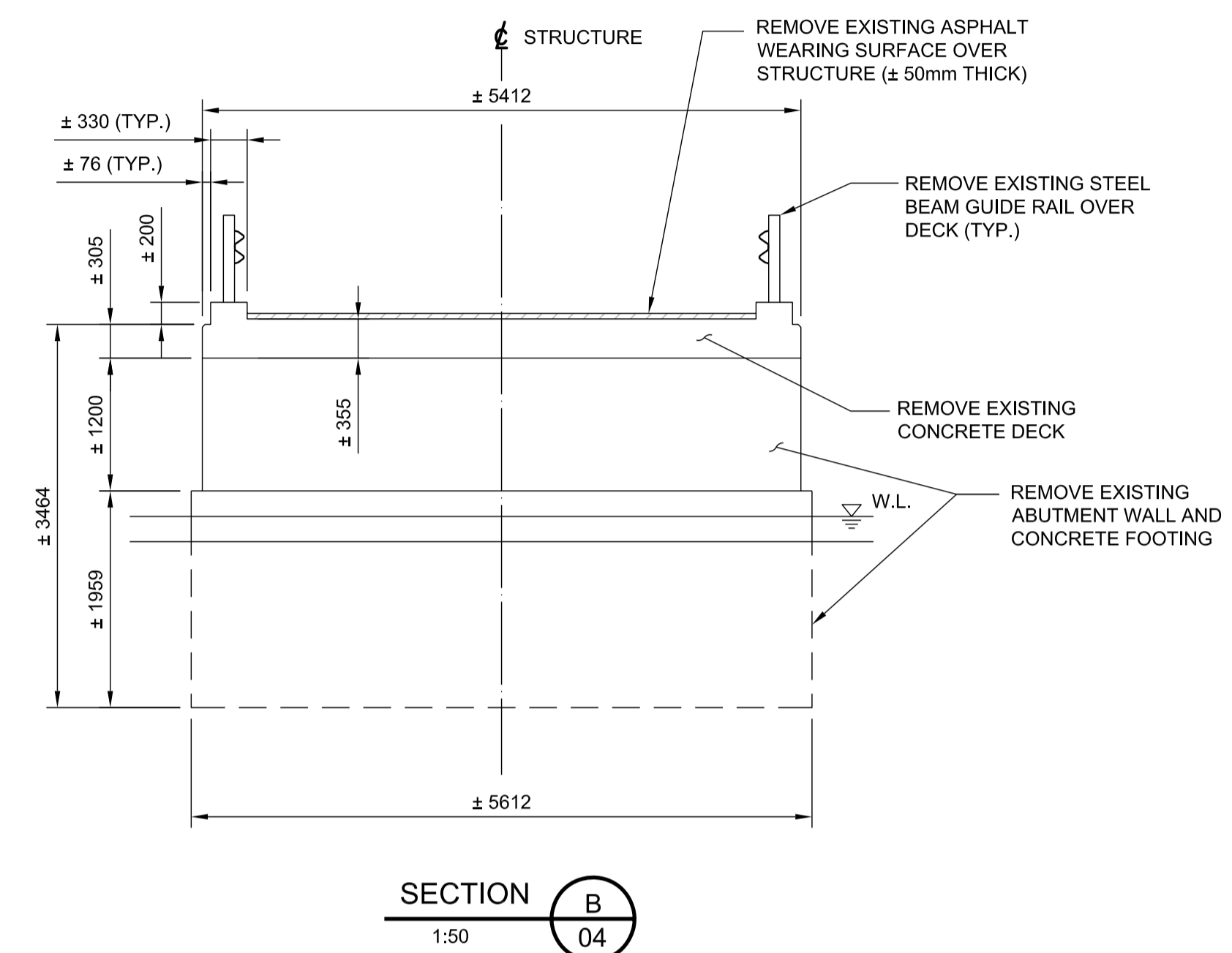
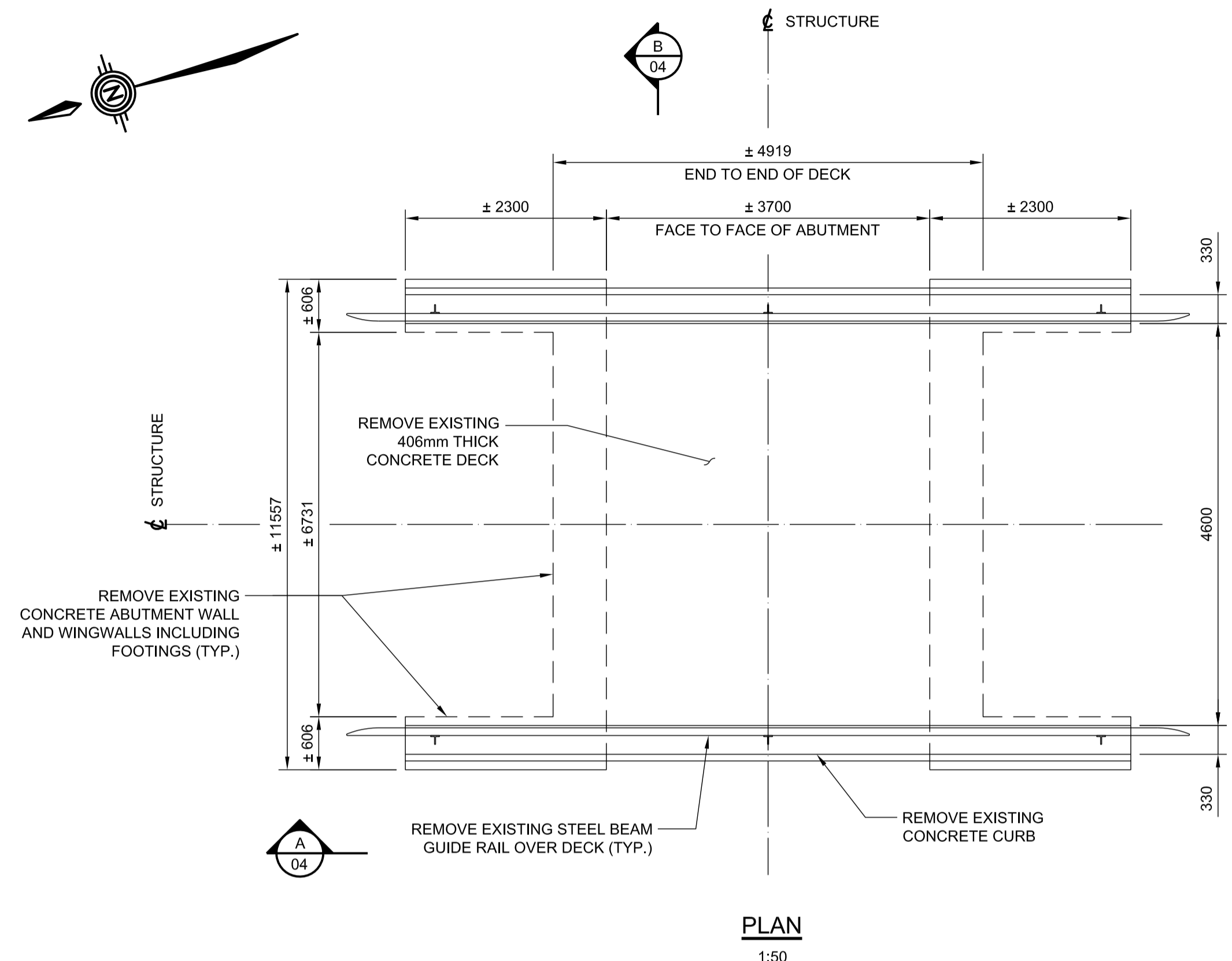
CLIENT		TOWNSHIP OF SOUTH FRONTENAC
PROJECT TITLE		EAGLE CREEK BRIDGE REPLACEMENT
DRAWING TITLE		ROADWAY REMOVALS AND RECONSTRUCTION

DATE:	FEB 2025
Dwn. M.P.	Chk. T.D.
Scale:	AS SHOWN
Des. M.P.	Chk. T.D.
CONTRACT NO.	PS-2025-05
SHEET	4 OF 8
DWG. NO.	03



NOTES:

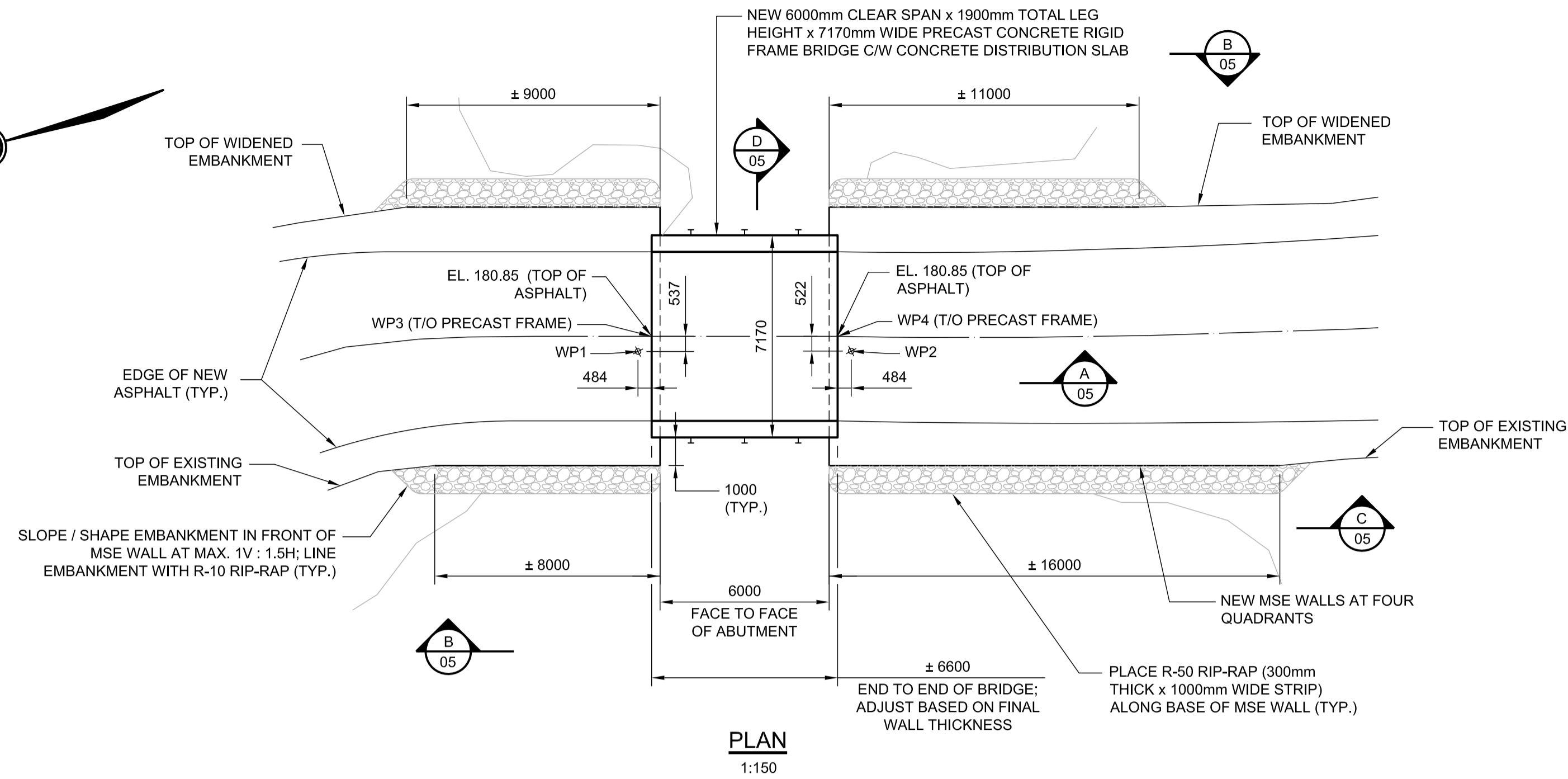
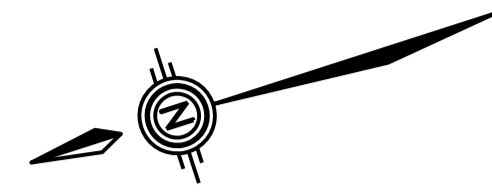
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.
3. ALL EXISTING CONDITIONS SHOWN ON THE CONTRACT DRAWINGS ARE TAKEN FROM FIELD MEASUREMENTS AND AVAILABLE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING WORK.
4. EXCAVATED ROADWAY MATERIAL SHALL BE SALVAGED AND STORED ON SITE FOR REUSE AS BACKFILL MATERIAL.



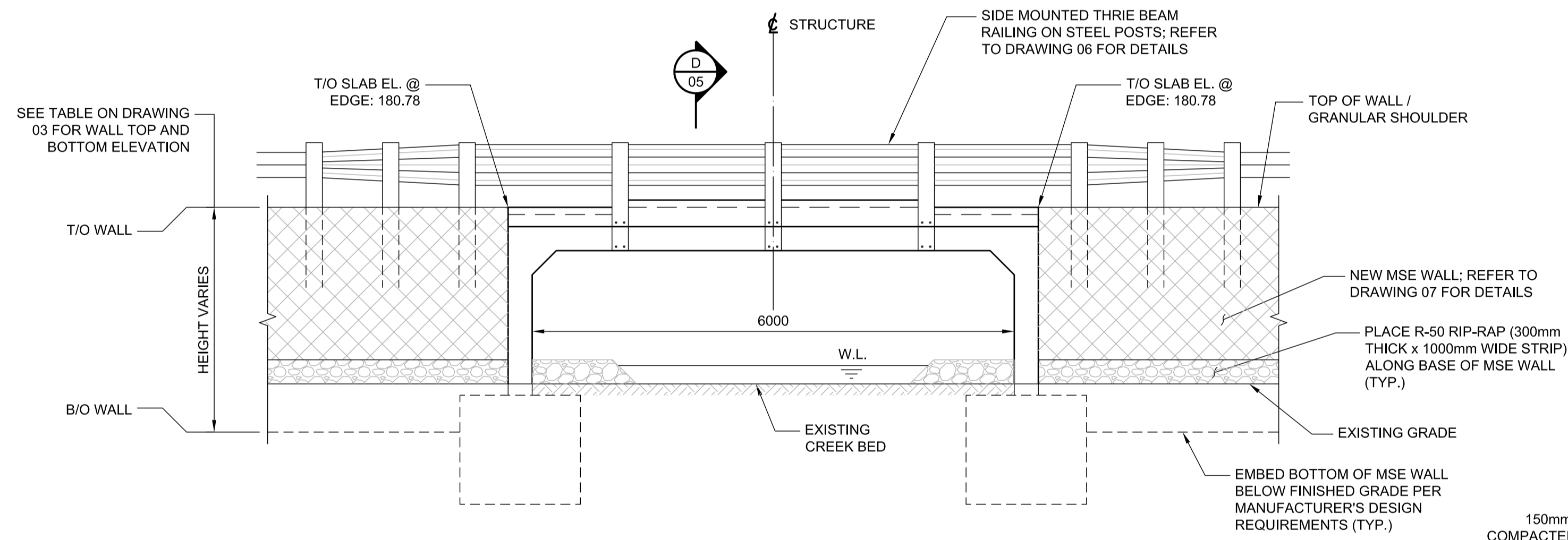
NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	25/02/25

CLIENT	TOWNSHIP OF SOUTH FRONTENAC
PROJECT TITLE	EAGLE CREEK BRIDGE REPLACEMENT
DRAWING TITLE	STRUCTURE REMOVALS

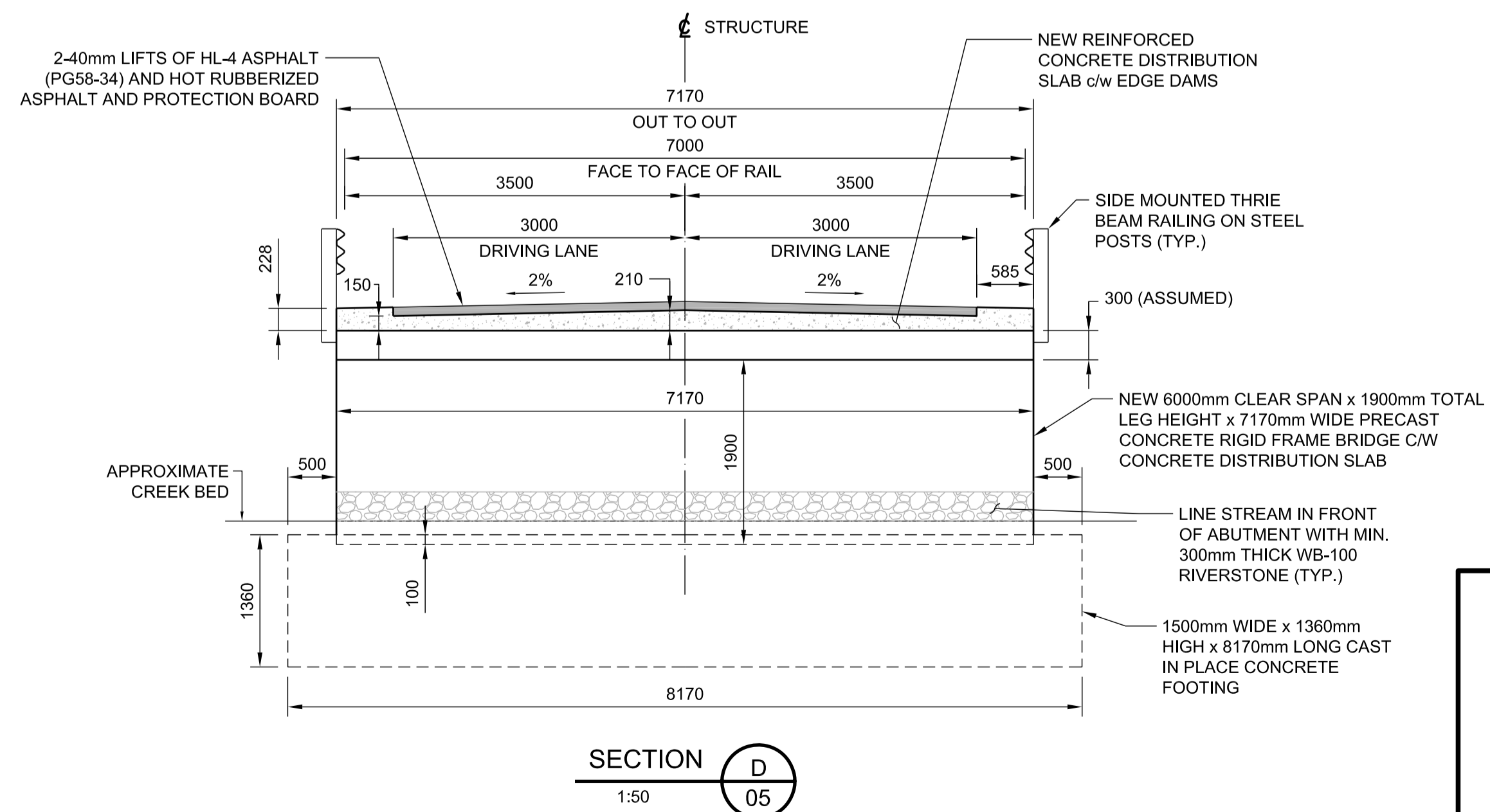
DATE:	FEB 2025
Dwn. M.P.	Chk. T.D.
Scale:	AS SHOWN
Des. M.P.	Chk. T.D.
CONTRACT NO.	PS-2025-05
SHEET	5 OF 8
DWG. NO.	04



PLAN
1:150



SECTION B
1:50



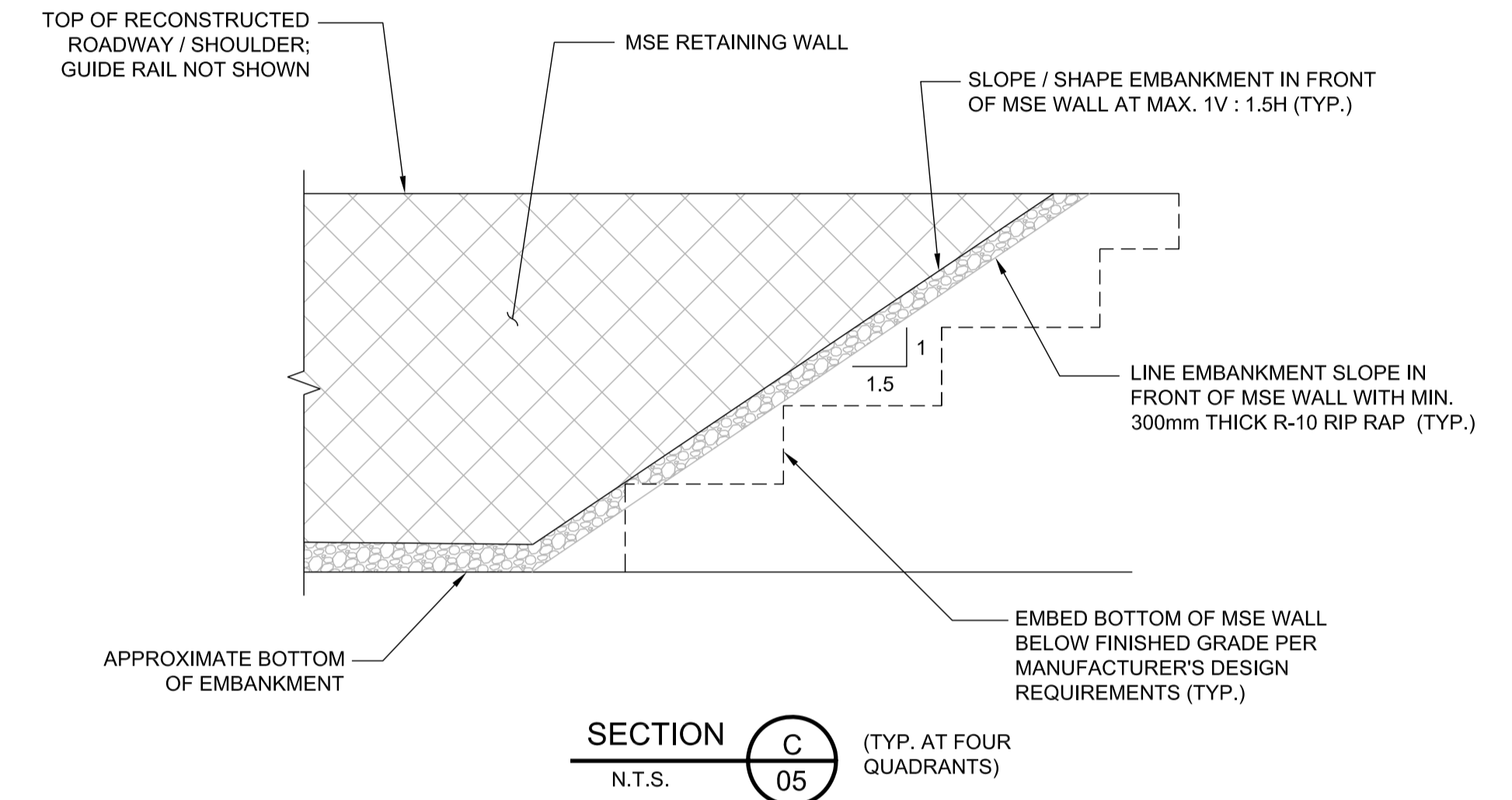
SECTION D
1:50

NOTES:

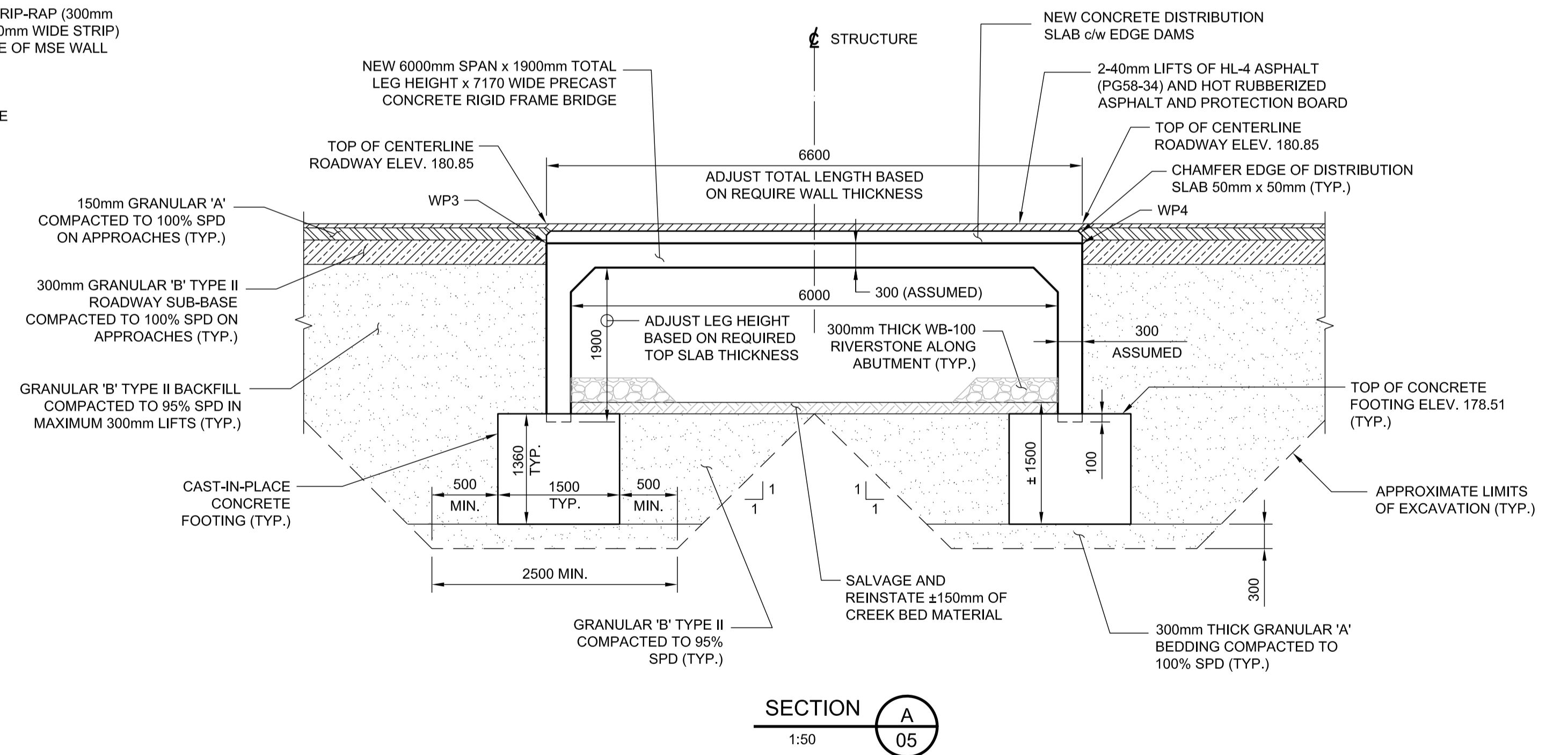
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
- REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.
- THE METHOD OF GUIDERAIL POST INSTALLATION (E.G., SONOTUBE, DRIVEN, ETC.) SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE MSE WALL DESIGNER AND GUIDERAIL INSTALLER REQUIREMENTS.
- EXCAVATED MATERIAL SHALL BE REUSED AS ROADWAY BACKFILL (BELOW ROADWAY SUB-BASE). MATERIAL SHALL BE PLACED IN MAXIMUM 300mm LIFTS AND COMPACTED TO 95% SPD.

Waypoint	X - Coordinate	Y - Coordinate	Elevation
WP 1	368766.13	4946481.76	180.79
WP 2	368763.83	4946474.55	180.87
WP 3	368766.50	4946481.13	180.55
WP 4	368764.48	4946474.85	180.55

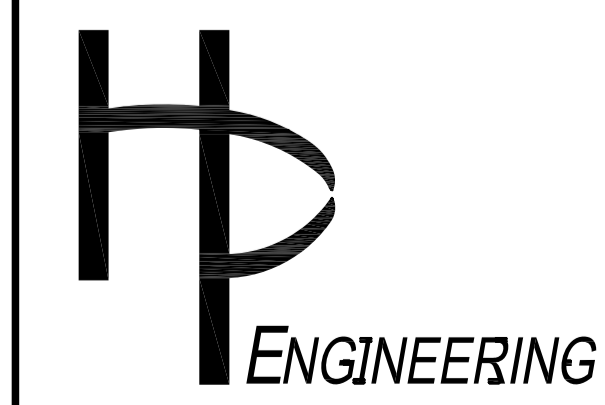
NOTE: ELEVATIONS SHOWN FOR WAYPOINT 3 AND WAYPOINT 4 ARE TO THE TOP OF THE PRECAST RIGID FRAME ALONG CENTERLINE.



SECTION C
N.T.S.



SECTION A
1:50

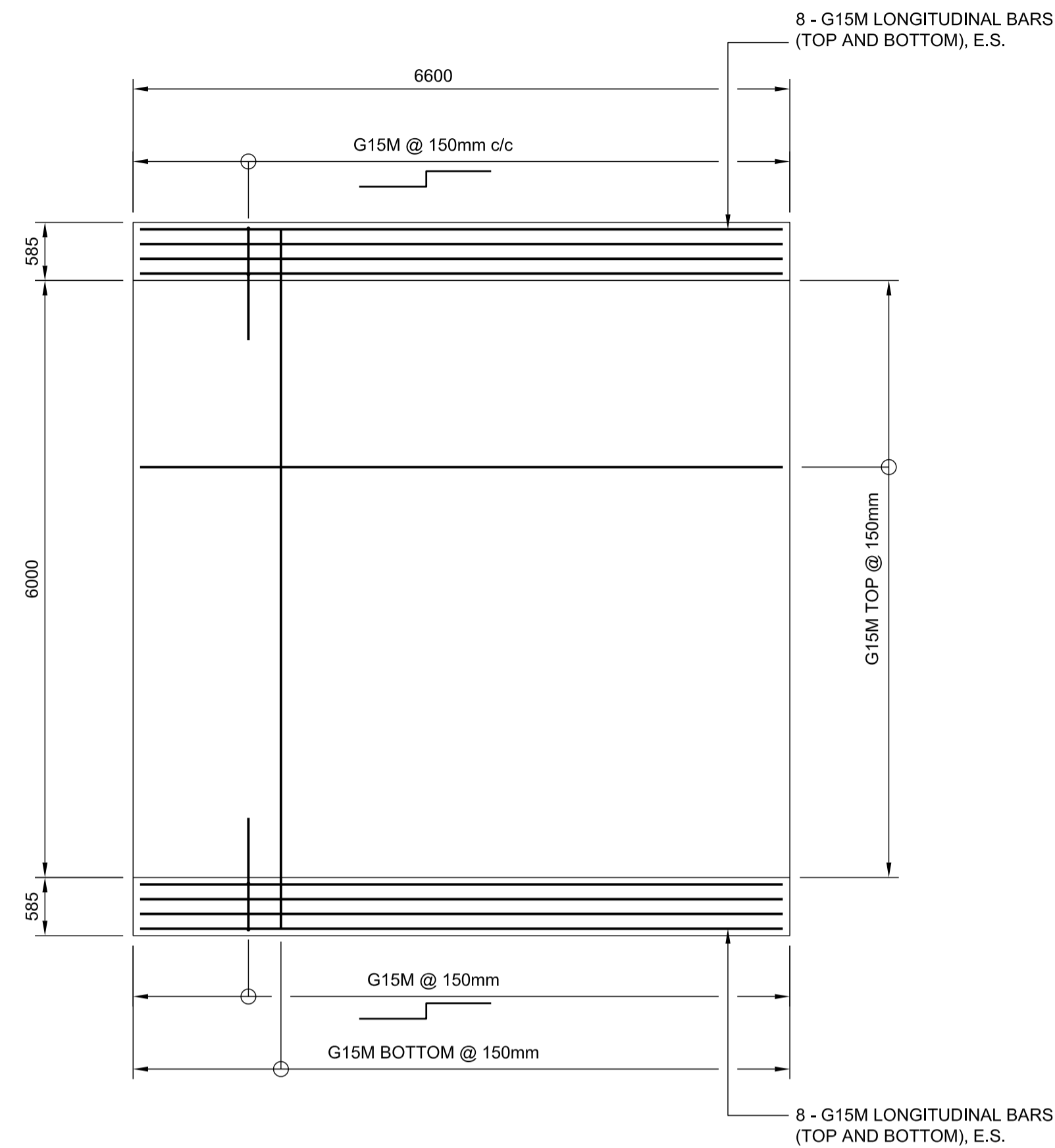


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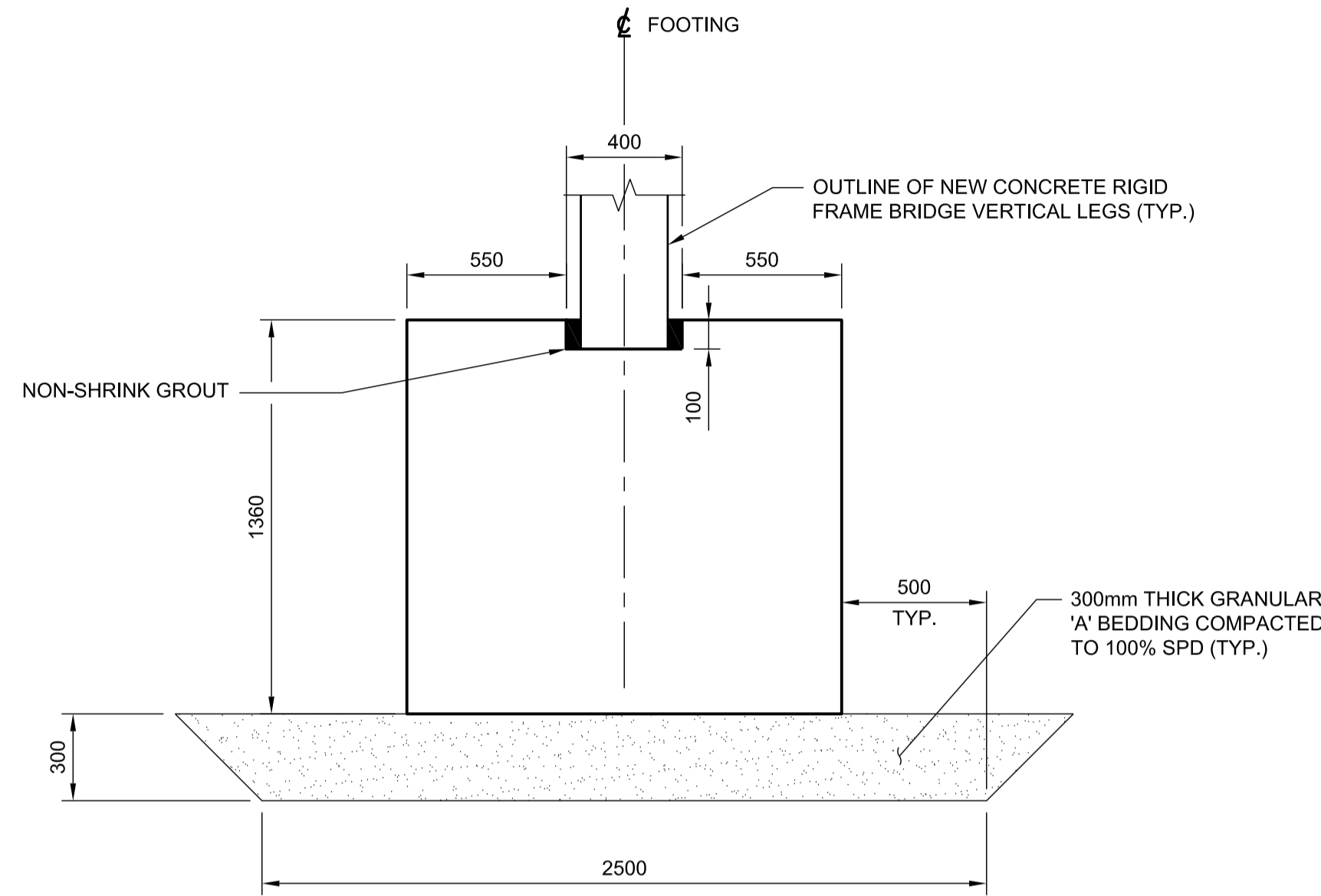
CLIENT		DATE: FEB 2025
TOWNSHIP OF SOUTH FRONTENAC		Dwn. M.P. Chk. T.D.
PROJECT TITLE		Scale: AS SHOWN
EAGLE CREEK BRIDGE REPLACEMENT		Des. M.P. Chk. T.D.
DRAWING TITLE		CONTRACT NO. PS-2025-05
STRUCTURE RECONSTRUCTION		SHEET 6 OF 8
		DWG. NO. 05

NOTES:

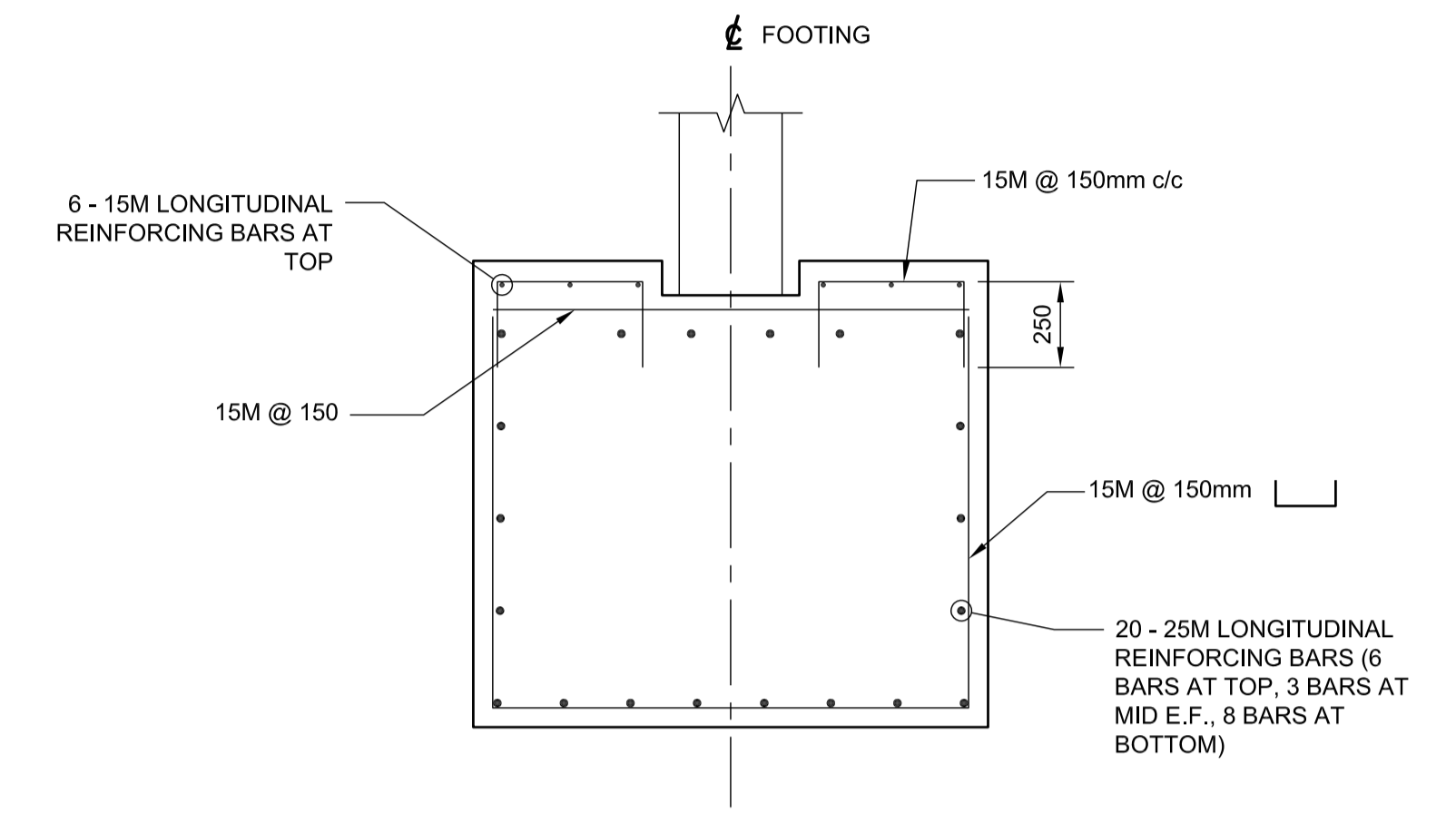
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.
3. APPLY AN APPROVED NON-SHRINK CEMENTITIOUS GROUT IN KEY RECESS OF FOOTING PRIOR TO INSTALLING PRE-CAST RIGID FRAME UNITS.



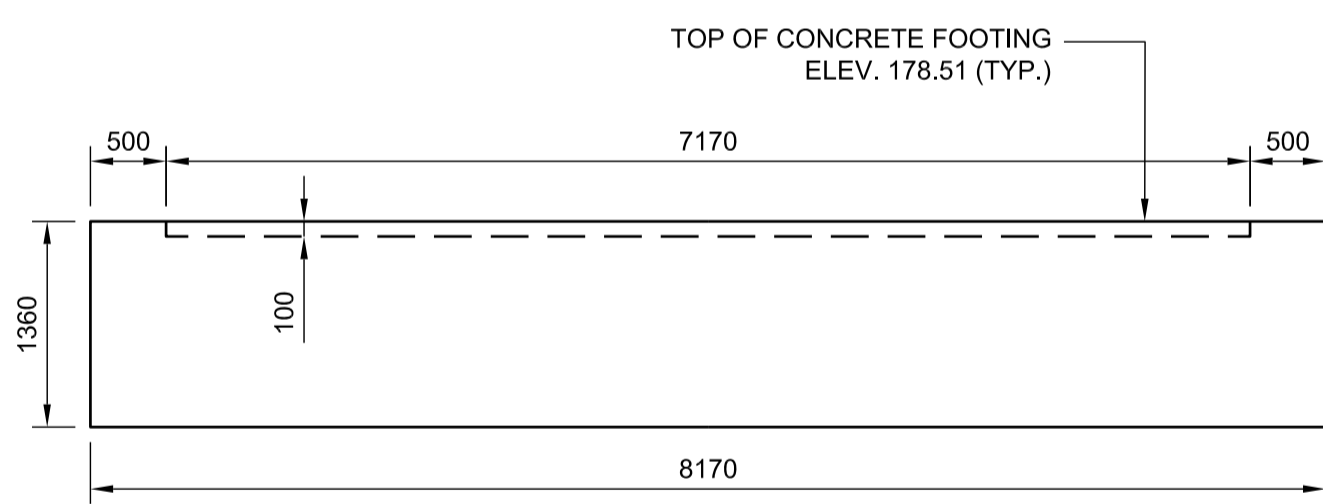
DISTRIBUTION SLAB - REINFORCEMENT
1:50



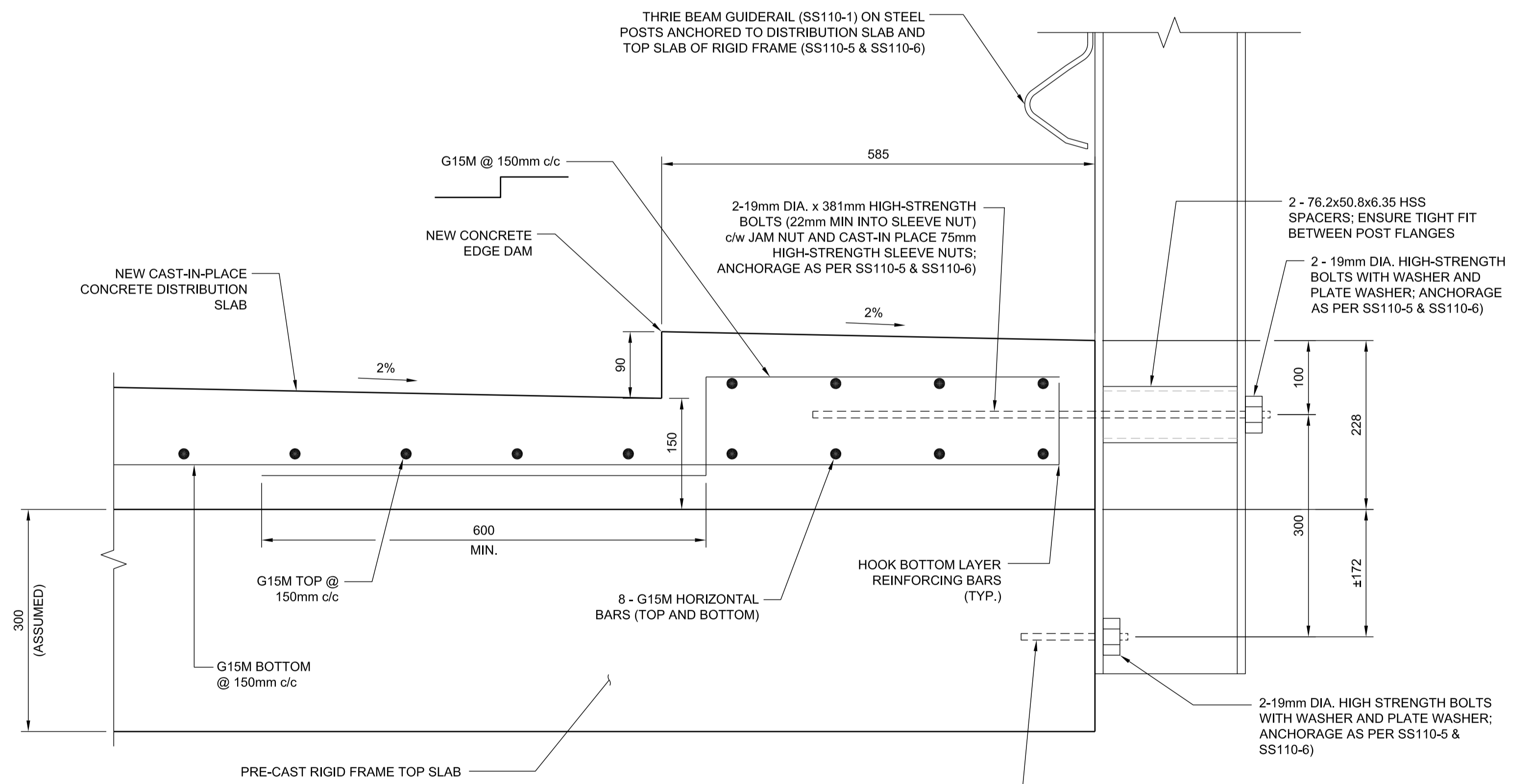
DETAIL A
1:20
DIMENSION MAY BE MODIFIED BASED ON CONCRETE RIGID FRAME SHOP DRAWINGS



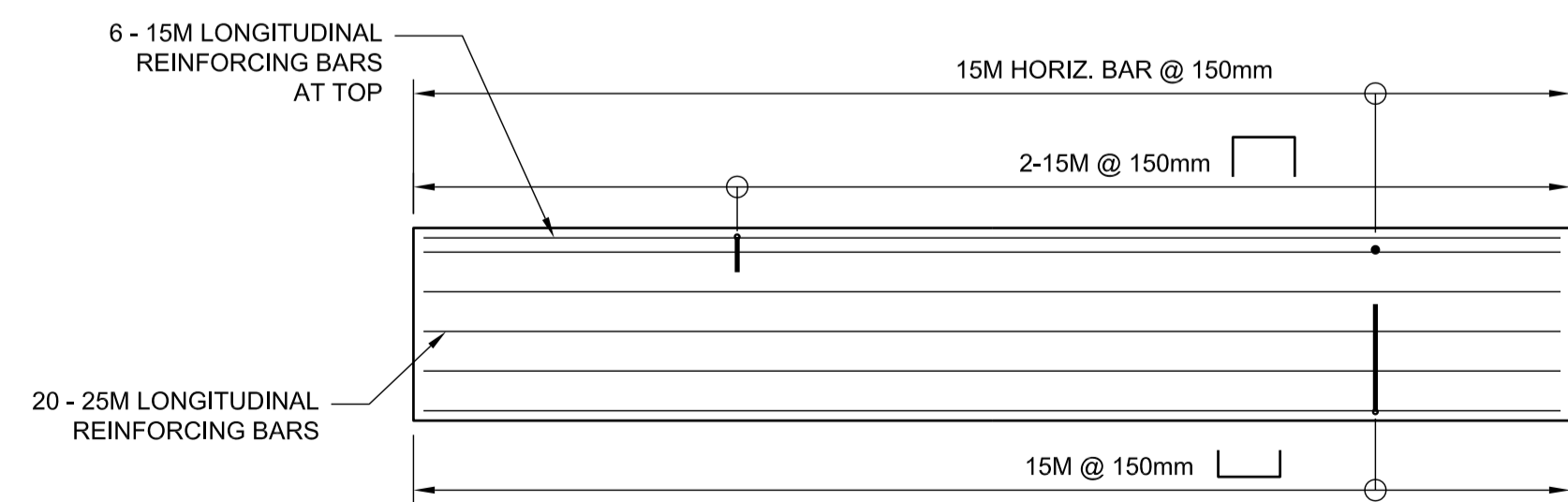
DETAIL B
1:20



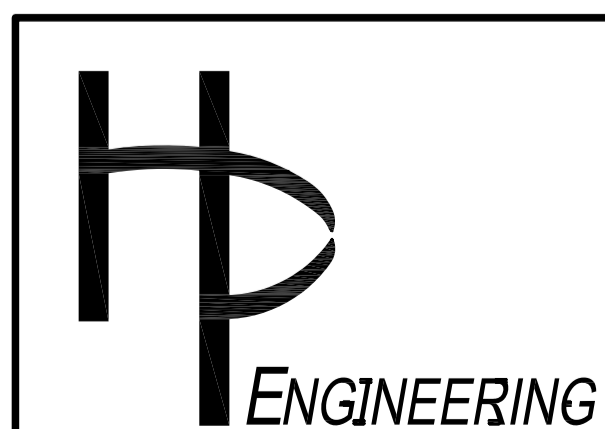
CONCRETE FOOTING - ELEVATION
1:50



CONCRETE EDGE DAM REINFORCEMENT - DETAIL
1:5



CONCRETE FOOTING - REINFORCING
1:50



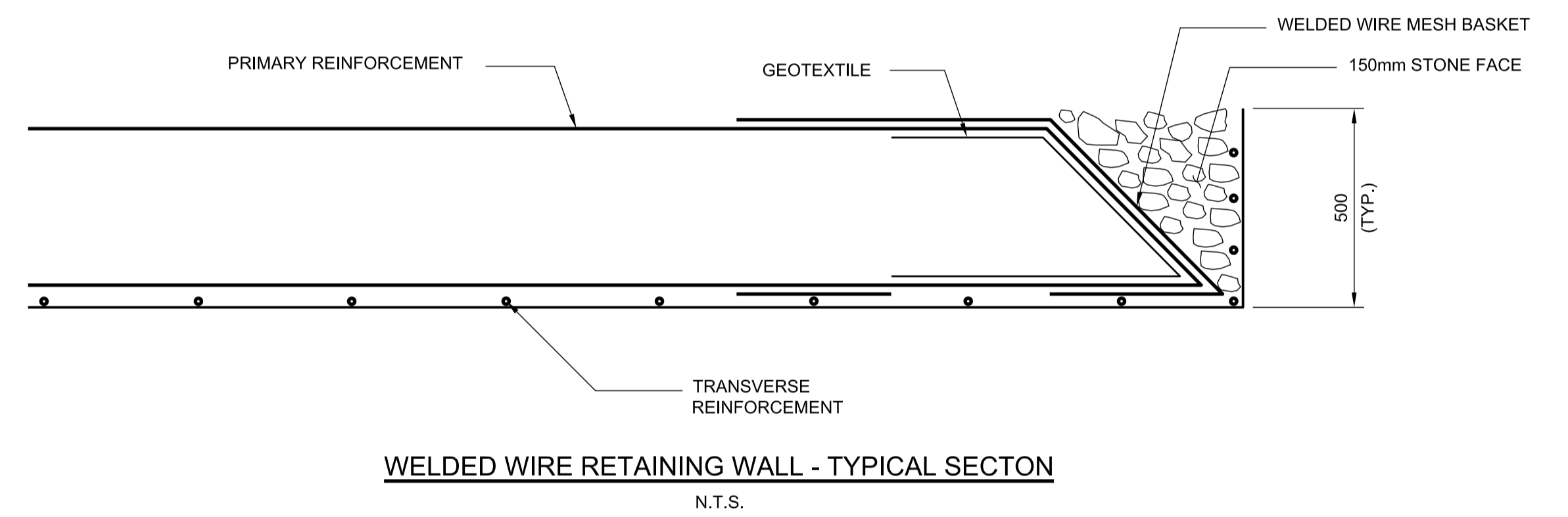
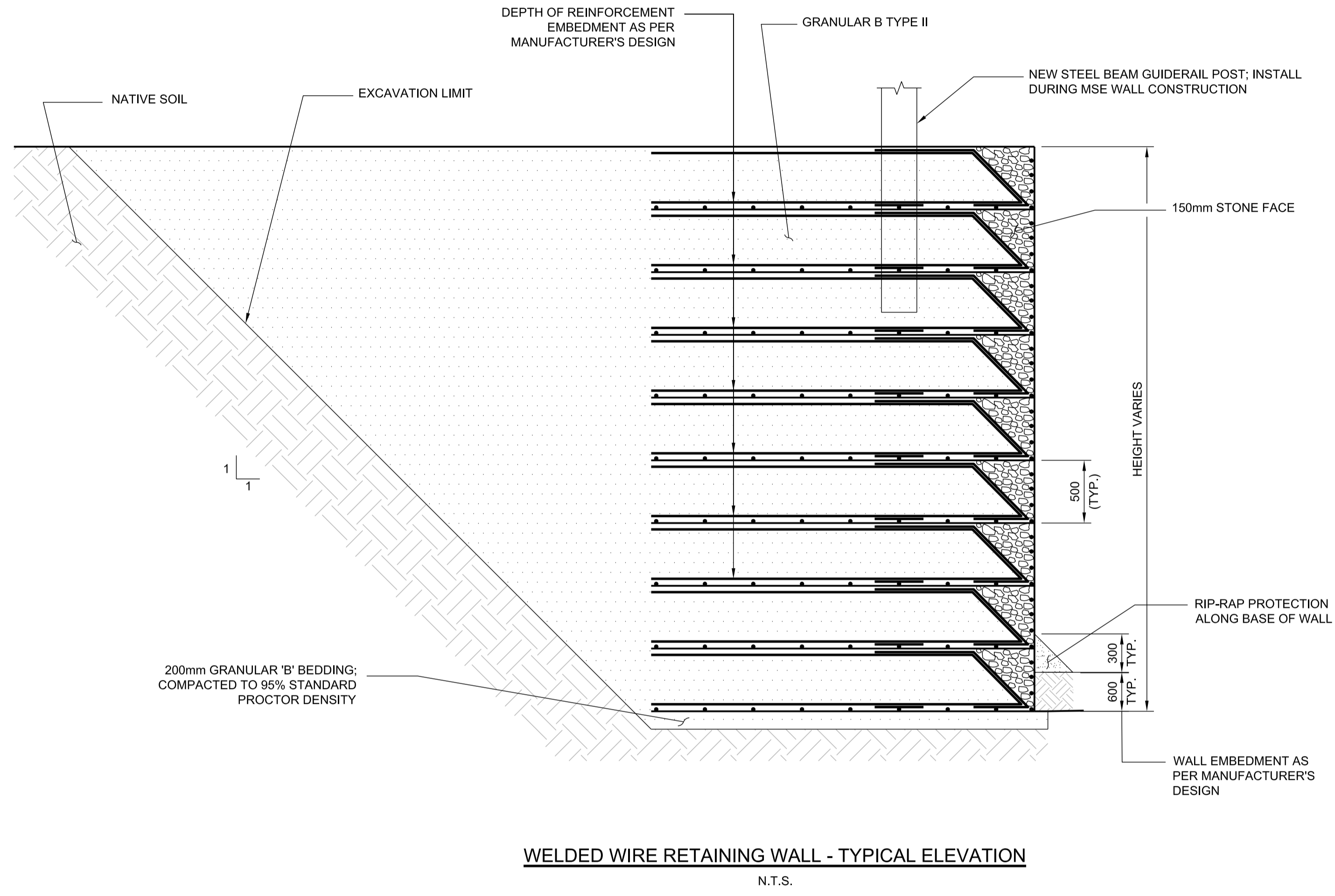
NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	25/02/25

CLIENT	
TOWNSHIP OF SOUTH FRONTENAC	
PROJECT TITLE EAGLE CREEK BRIDGE REPLACEMENT	
DRAWING TITLE DISTRIBUTION SLAB AND FOOTINGS DETAILS	

DATE:	FEB 2025
Dwn. M.P.	Chk. T.D.
Scale:	AS SHOWN
Des. M.P.	Chk. T.D.
CONTRACT NO. PS-2025-05	
SHEET 7 OF 8	
DWG. NO. 06	

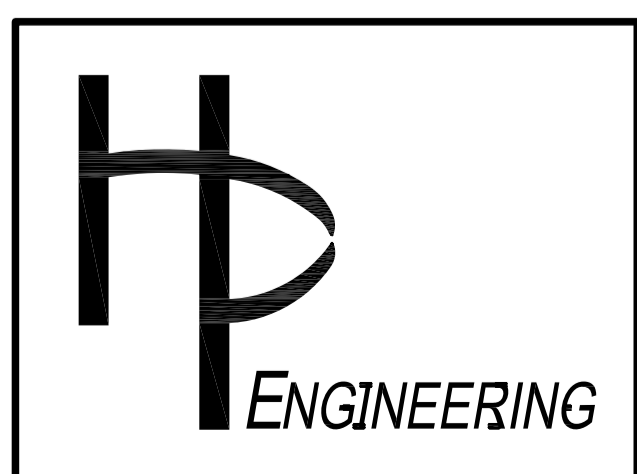
NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
2. REFER TO DRAWING 01 FOR GENERAL NOTES AND SCOPE OF WORK.
3. THE METHOD OF GUIDERAIL POST INSTALLATION (SONOTUBE, DRIVEN, ETC.) SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE MSE WALL DESIGNER AND GUIDERAIL INSTALLER REQUIREMENTS.
4. THE MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS SHALL BE AN APPROVED SYSTEM LISTED IN THE ONTARIO MINISTRY OF TRANSPORTATION'S (MTO) DESIGNATED SOURCES OF MATERIALS LIST (DSM 9.70.56) AND SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING ATTRIBUTES:
 PERFORMANCE: LOW
 APPEARANCE: LOW
 GEOMETRY: VERTICAL (90°)
5. MSE WALL DETAILS ON THIS DRAWING ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN THE MSE RETAINING WALLS. THE RETAINING WALLS SHALL BE DESIGNED AS PER THE CHBDC CSA S6-19. THE DESIGNS SHALL BE STAMPED BY TWO (2) PROFESSIONAL ENGINEERS LICENSED IN ONTARIO (DESIGN AND CHECK ENGINEER). THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS (FOR ALL CONTRACTOR DESIGNED ITEMS) SHOWING ALL DETAILS REQUIRED FOR CONSTRUCTION TO BE REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO ORDERING MATERIALS.



WELDED WIRE RETAINING WALL - TYPICAL ELEVATION
N.T.S.

WELDED WIRE RETAINING WALL - TYPICAL SECTION
N.T.S.



NO.	REVISION	BY	DATE
1	ISSUED FOR TENDER	T.D.	25/02/25

CLIENT	TOWNSHIP OF SOUTH FRONTENAC
PROJECT TITLE	EAGLE CREEK BRIDGE REPLACEMENT
DRAWING TITLE	RETAINING WALL DETAILS

DATE:	FEB 2025
Dwn. M.P.	Chk. T.D.
Scale:	AS SHOWN
Des. M.P.	Chk. T.D.
CONTRACT NO.	PS-2025-05
SHEET	8 OF 8
DWG. NO.	07