



NOTES:

- A. THIS DRAWINGS ILLUSTRATES THE GENERAL ADVANCE NOTIFICATION AND ADVANCE SIGNS WARNING OF HEAVY TRUCK ROUTE.
- B. ADVANCED NOTIFICATION SIGNS SHALL BE PLACED MINIMUM TWO WEEKS PRIOR TO PROJECT COMMENCEMENT ON WELLINGTON ROAD 109.
- C. DETOUR ROUTE SIGNING IS ONLY TO BE DISPLAYED DURING PERMITTED TIMES AS PER THE CONTRACT DOCUMENTS.
- D. DETOUR SIGNING DRAWING TO BE READ IN CONJUNCTION WITH LATEST EDITION OF ONTARIO TRAFFIC MANUAL BOOK 7 (TEMPORARY CONDITIONS).
- E. ALL SIGNS ARE TO BE MANUFACTURED AND PLACED IN ACCORDANCE WITH LATEST EDITION OF OTM BOOK 7.
- F. CONTRACTOR MUST REVIEW WORDING AND LAYOUT OF SIGNING WITH CONTRACT ADMINISTRATOR PRIOR TO FABRICATION.

LEGEND:



- PROJECT LOCATION
- PROPOSE DETOUR ROUTE

TC-10C



RB-61
①

TC-10AR



RB-61
②

TC-10BR



RB-61
③

TC-10AL



RB-61
④

TC-10BL



RB-61
⑤

TC-10D



RB-61
⑥

TC-10Cr





RB-61
⑦

TC-5

RB-61
⑧


RB-62
⑨

TC-64 (MODIFIED)

WELLINGTON RD. 109

NARROW LANES

HWY6 - WR16

Starts DATE

TC-10
⑩

TC-67 (MODIFIED)

WELLINGTON RD. 109

NARROW LANES AT

WELLINGTON RD. 16

FOLLOW D-1

TC-10
⑪

TC-67 (MODIFIED)

WELLINGTON RD. 109

NARROW LANES AT

HIGHWAY 6

FOLLOW D-1

TC-10
⑫



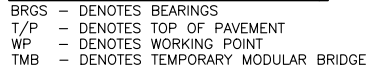
THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.



SCALE		AS SHOWN	DESIGNED	HX
DATE		FEBRUARY, 2025	CHECKED	JM
DRAFTING		AK		
CHECKED		HX		
FIELD BK.		PAGE	PROJECT	
BENCH M			077394	
1	ISSUED FOR TENDER	6/2/2025	WVR	
NO.	DESCRIPTION	DATE	INITIAL	
REVISIONS				

COUNTY OF WELLINGTON
REPLACEMENT OF
4 STRUCTURES
OVER CONESTOGO RIVER
ALTERNATE ROUTE SIGNAGE

CW2025-020
CONTRACT NO.
DRAWING NO.
G104

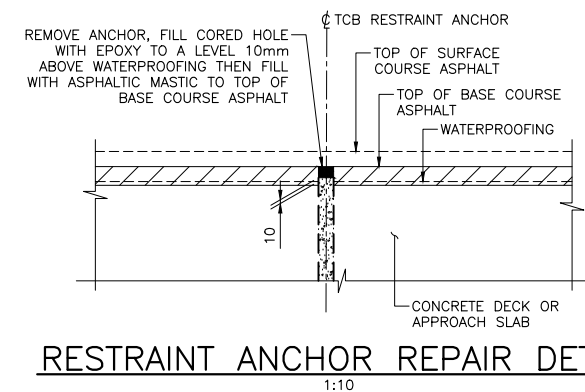
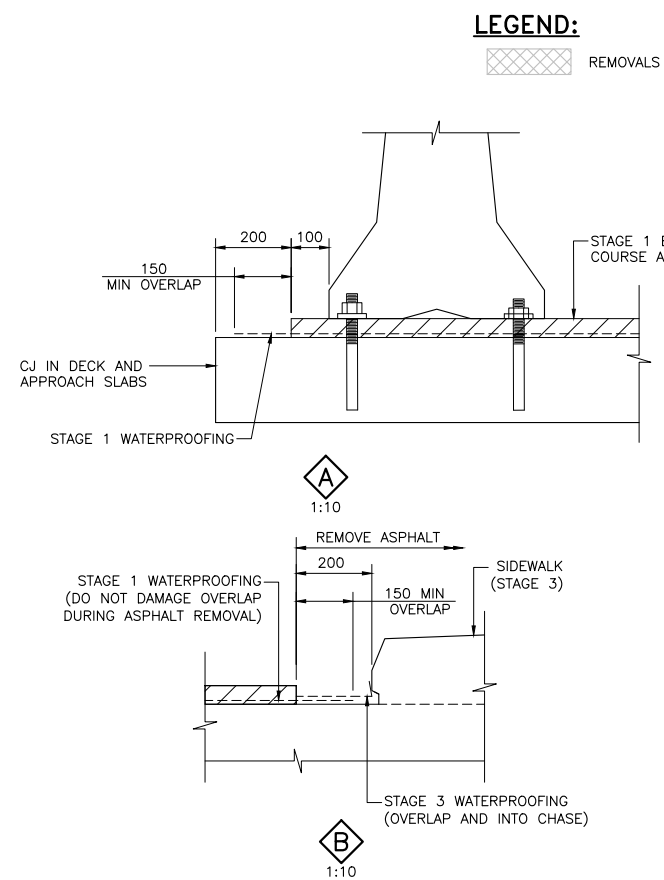
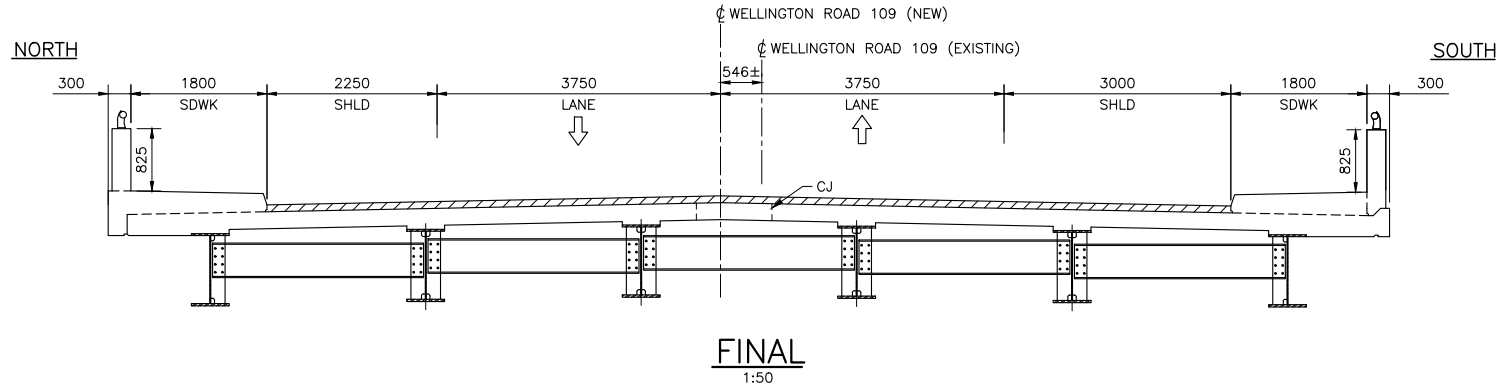
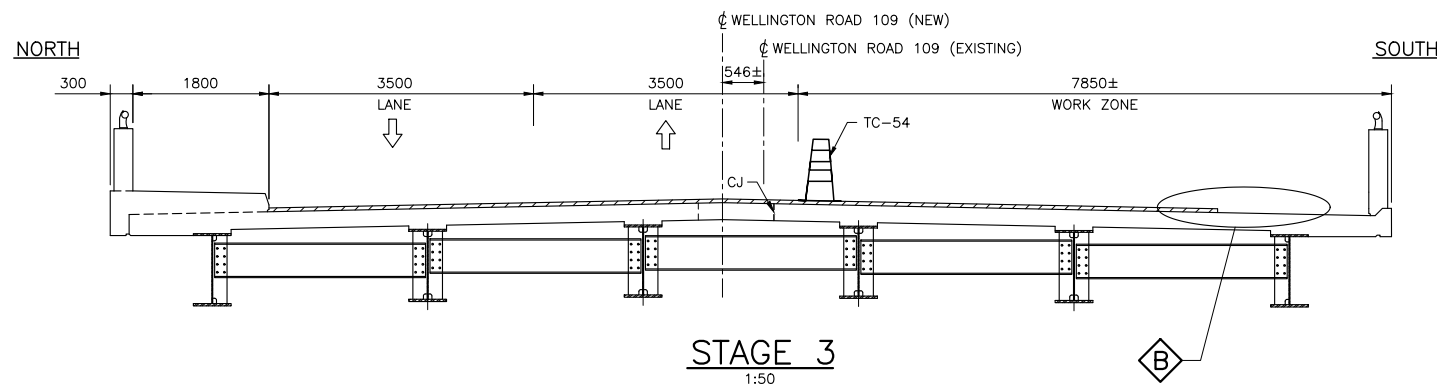
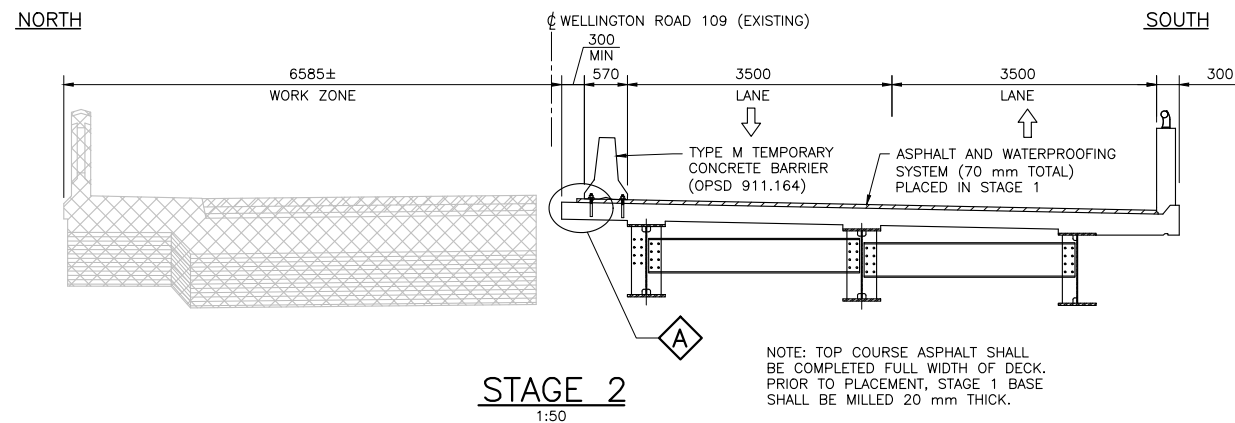
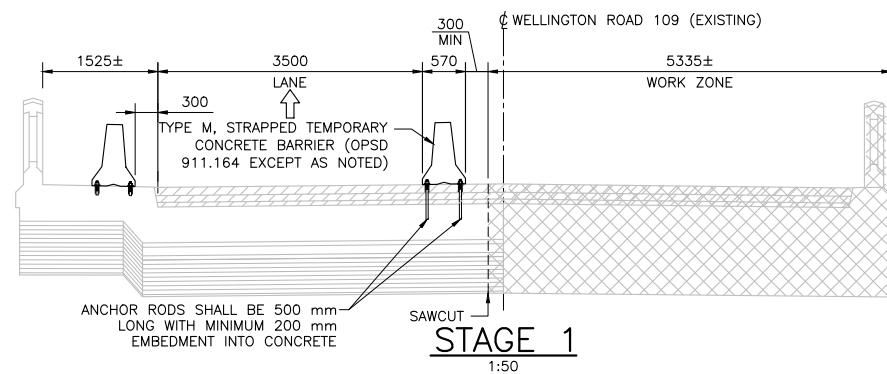
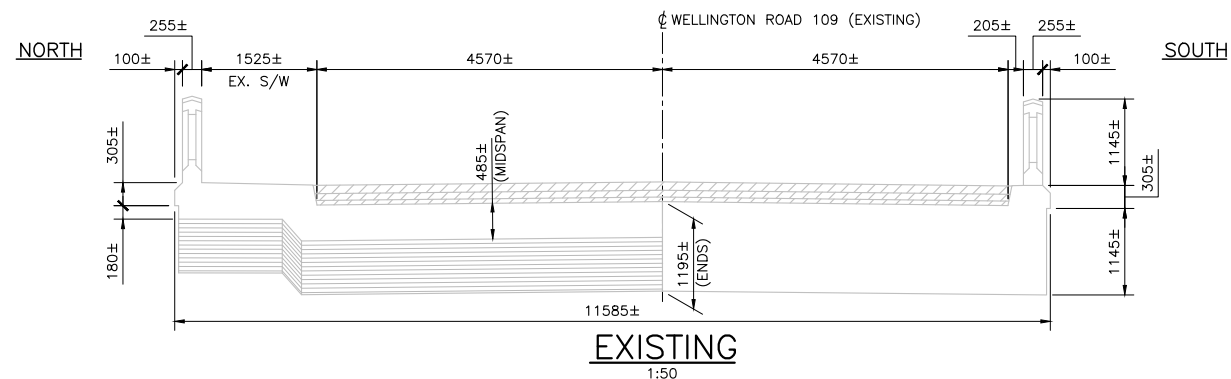
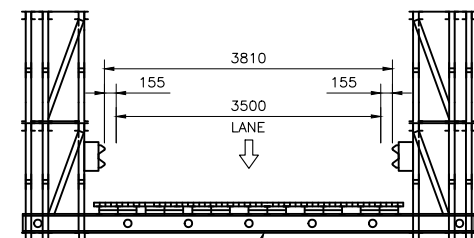


1. THE CONTRACTOR SHALL ESTABLISH THE BEARING SEAT ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESSES FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESSES ARE DIFFERENT FROM THOSE GIVEN IN THE DRAWINGS, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
2. BACKFILL SHALL NOT BE PLACED BEHIND THE ABUTMENTS UNTIL THE DECK SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH.
3. BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH ABUTMENTS KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500 mm.
4. CONSTRUCT ABUTMENTS AND WINGWALLS TO THE BEARING SEAT ELEVATIONS. THE CONTRACTOR SHALL SUPPLY TEMPORARY LATERAL BRACING FOR THE ABUTMENTS. FORMWORK AND LATERAL BRACING SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED 28-DAY STRENGTH.
5. SUBDRAINS BEHIND ABUTMENTS SHALL BE EXTENDED TO THE LIMIT OF GRADING FROM SLOPE TO SLOPE AND INSTALLED COMPLETE WITH RODENT GRATING (TYPICAL).
6. ROCK PROTECTION (MINIMUM D50 OF 335 mm) SHALL BE PLACED TO A DEPTH OF 525 mm AS SHOWN. ROCK PROTECTION SHALL BE TOP DRESSED WITH A 100mm THICK LAYER OF TABLE A SUBSTRATE WITHIN MAIN CHANNEL.
7. ACCESS TO PRIVATE ENTRANCES WITHIN LIMITS OF CONSTRUCTIONS ZONE TO BE MAINTAINED AT ALL TIMES.
8. NO INSTREAM WORK IS PERMITTED BETWEEN APRIL 1 AND JUNE 30 OF ANY YEAR. IN-WATER WORK IS PERMITTED BETWEEN JULY 1 AND MARCH 31.
9. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 20mm.
10. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION, AS WELL AS FOR JOB SAFETY. JOB SAFETY, CONSTRUCTION AND DEMOLITION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONS TO MINIMIZE VIBRATION, NOISE, DUST AND DEBRIS IN ALL AREAS ADJACENT TO AREA OF DEMOLITION.
11. ASPHALT PAVING ON THE BRIDGE DECK AND APPROACH SLABS SHALL BE 2 LIFTS OF HL1.
12. A COFFERDAM IS ANTICIPATED TO BE REQUIRED TO REMOVE THE EXISTING ABUTMENTS AND INSTALL ROCK PROTECTION. THE COFFERDAM SHALL BE DESIGNED BY THE CONTRACTOR (TO BE APPROVED BY GRA) FOR AN ELEVATION 0.3 m ABOVE THE 2 YEAR FLOW WATER LEVEL.

PROFILE OF WELLINGTON ROAD 109 (NEW)

 METRIC
ALL DIMENSIONS SHOWN HERE ARE IN
MILLIMETRES UNLESS OTHERWISE NOTED

S101



- NOTES:

1. READ THIS DRAWING IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.
2. TWO LANES OF TRAFFIC SHALL BE MAINTAINED FOR THE DURATION OF THE WORK (1 IN EACH DIRECTION) UNLESS PRE-APPROVED IN WRITING BY THE CONTRACT ADMINISTRATOR.
3. FOR TRAFFIC CONTROL DETAILS, SEE TRAFFIC STAGING DRAWINGS.
4. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CONTRACT ADMINISTRATOR A COPY OF THEIR TRAFFIC PROTECTION PLAN FOR THIS PROJECT, IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND IN ACCORDANCE WITH THE LATEST EDITION OF BOOK 7 OF THE MTO's ONTARIO TRAFFIC MANUAL.
5. THE CONTRACTOR SHALL COVER ANY EXISTING TRAFFIC CONTROL SIGNS THAT CONFLICT WITH TEMPORARY SIGNAGE AND TRAFFIC CONTROL REQUIRED FOR CONSTRUCTION STAGING.
6. ANY EXISTING TRAFFIC CONTROL SIGNS REMOVED SHALL BE REINSTATED UPON REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES.
7. TEMPORARY PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL SIGNS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
8. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TEMPORARY MARKINGS SHALL BE REMOVED BY GRINDING.
9. ALL PAVEMENT MARKING (TEMPORARY AND PERMANENT) TO BE SUPPLIED, INSTALLED, RELOCATED AND/OR REMOVED BY THE CONTRACTOR.
10. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT.

PROPOSED SEQUENCE OF WORK:

STAGE 1 – CONSTRUCTION ON THE SOUTH SIDE

1. PROVIDE SEDIMENT CONTROL AND CONTAINMENT MEASURES AROUND WORK SITE, AND INSTALL TEMPORARY COFFERDAMS.
2. CONSTRUCT TEMPORARY MODULAR BRIDGE INCLUDING SUBSTRUCTURE.
3. SET UP STAGE 1 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109 AND DIVERT TRAFFIC.
4. CARRY OUT STAGE 1 REMOVALS AND NEW CONSTRUCTION.
5. PLACE STAGE 1 WATERPROOFING AND BASE COURSE ASPHALT.

STAGE 2 – CONSTRUCTION ON THE NORTH SIDE

6. SET UP STAGE 2 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109.
7. REMOVE TEMPORARY MODULAR BRIDGE.
8. ADJUST EROSION AND SEDIMENT CONTROL AS REQUIRED.
9. CARRY OUT STAGE 2 REMOVALS AND NEW CONSTRUCTION.
10. PLACE STAGE 2 WATERPROOFING AND BASE COURSE ASPHALT.

STAGE 3 – CONSTRUCTION OF THE SOUTH SIDEWALK

11. REMOVE ASPHALT AT SOUTH SIDEWALK (FULL DEPTH).
12. CONSTRUCT SOUTH SIDEWALK.
13. WATERPROOF AND PAVE BASE COURSE ASPHALT ADJACENT TO SOUTH SIDEWALK, AND REPAIR TCB RESTRAINT HOLES.
14. MILL BASE COURSE ASPHALT AND PLACE SURFACE COURSE ASPHALT (FULL WIDTH) AND FINAL PAVEMENT MARKINGS.

APPLICABLE STANDARD DRAWINGS:

OPSD - 0911.164

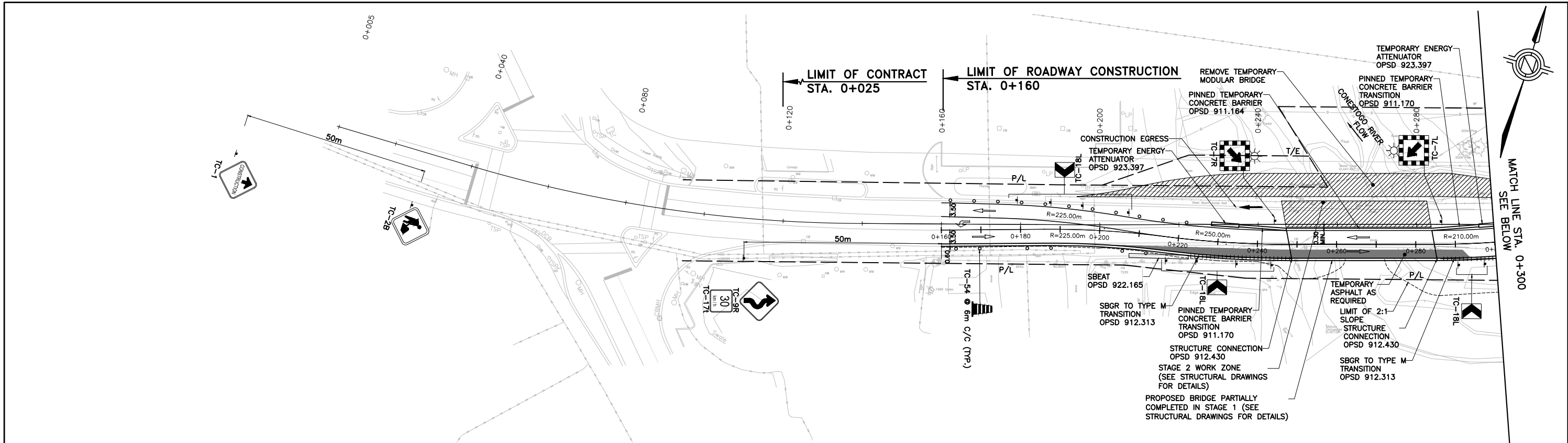
GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M
CONNECTION, INSTALLATION—TEMPORARY
RESTRAINT SYSTEM STRAPPED TO CONCRETE
WITH ASPHALT SURFACE

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.

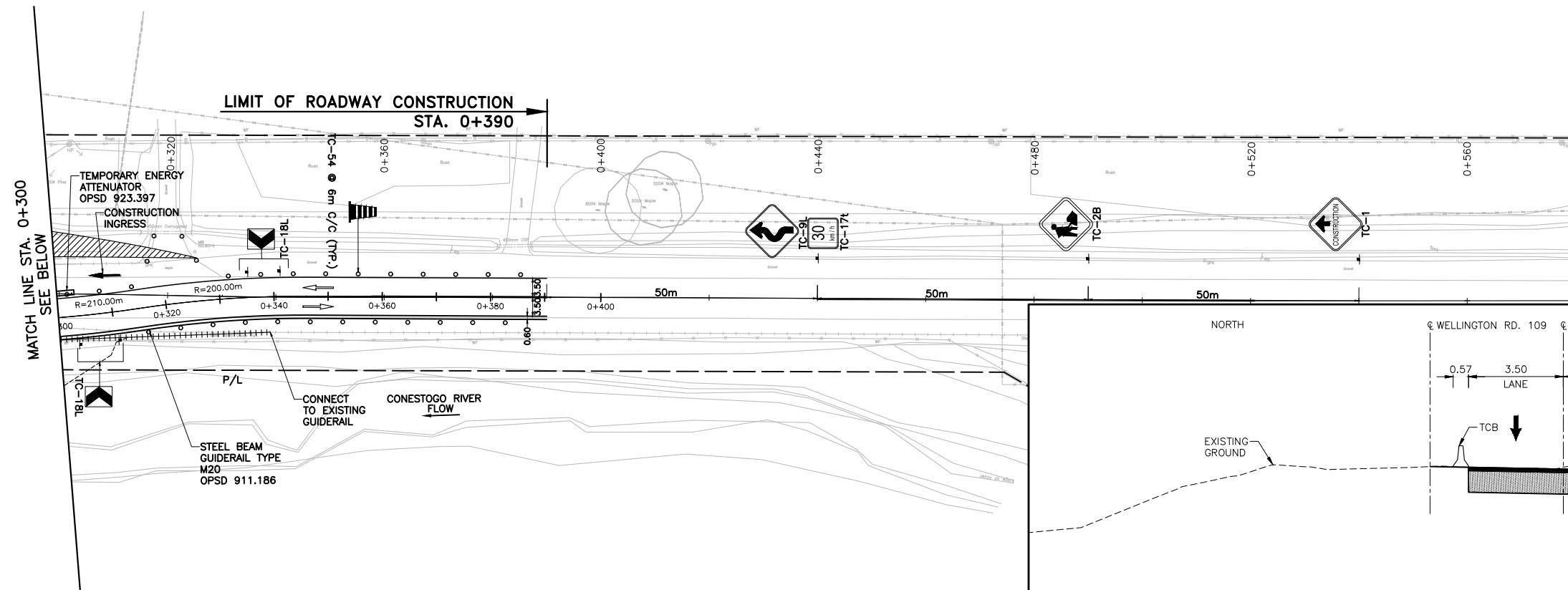
[illegible]

COUNTY OF WELLINGTON	CW2025-020
CONESTOGO RIVER BRIDGE No.6	PROJECT NO.
STRUCTURE No. B109132	DRAWING NO.
CONSTRUCTION STAGING	S102

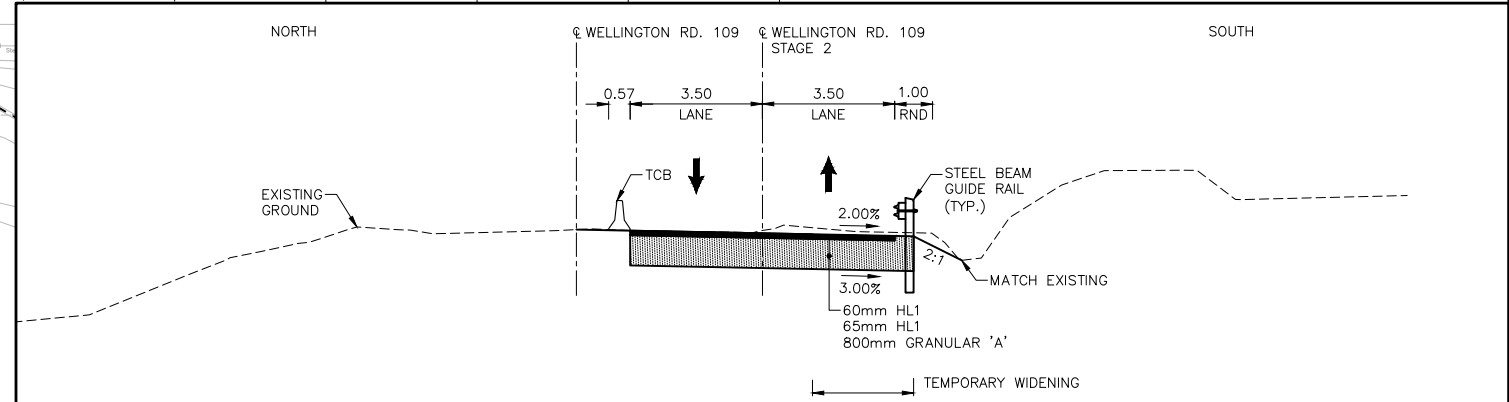
CAD FILE LOCATION AND NAME: C:\pwworking\gfpw01\park\gnet.com\d1811256\077394 - Wellington 109 Bridge Replacements - Stage 2 - Sheet.dwg
MODIFIED: 2/3/2025 1:57:06 PM BY: HALKADHALLY
DATE PLOTTED: 2/4/2025 2:12:42 PM BY: PARK, JASON



WELLINGTON ROAD 109
SCALE 1:500



WELLINGTON ROAD 109
SCALE 1:500



WELLINGTON ROAD 109 - BRIDGE 6 - TYPICAL SECTION
STAGE 2



COUNTY OF WELLINGTON
REPLACEMENT OF CONESTOGO
RIVER BRIDGE No. 6
STRUCTURE No. B109132
TRAFFIC CONTROL
PLAN - STAGE 2

CW2025-020
CONTRACT NO.
DRAWING NO.
TC103

LEGEND:
WORK ZONE
CONSTRUCTION INGRESS/EGRESS
TRAFFIC DIRECTION
TC-54
PROPOSED SIGN

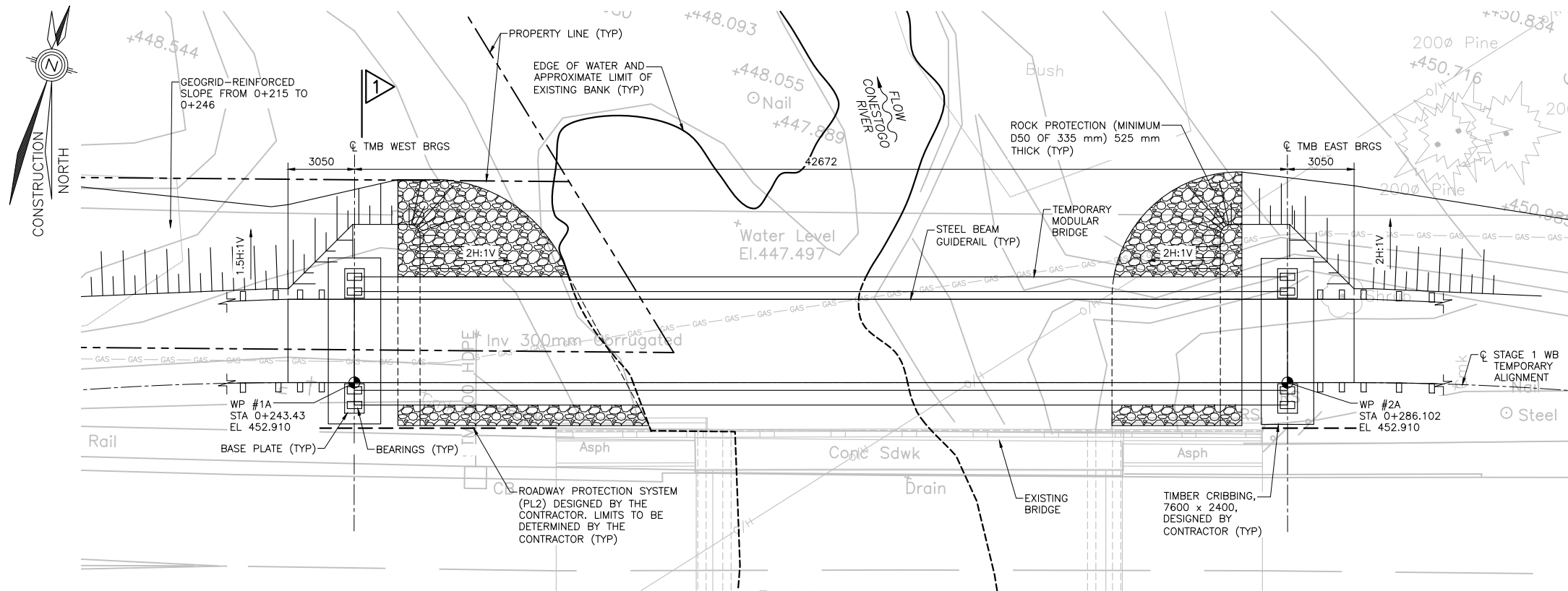


DISCLAIMER:
THESE DESIGN DOCUMENTS ARE PREPARED
SOLELY FOR THE USE BY THE PARTY WITH
WHOM THE DESIGN PROFESSIONAL HAS
ENTERED INTO A CONTRACT AND THERE ARE
NO REPRESENTATIONS OF ANY KIND MADE BY
THE DESIGN PROFESSIONAL TO ANY PARTY
WITH WHOM THE DESIGN PROFESSIONAL HAS
NOT ENTERED INTO A CONTRACT.

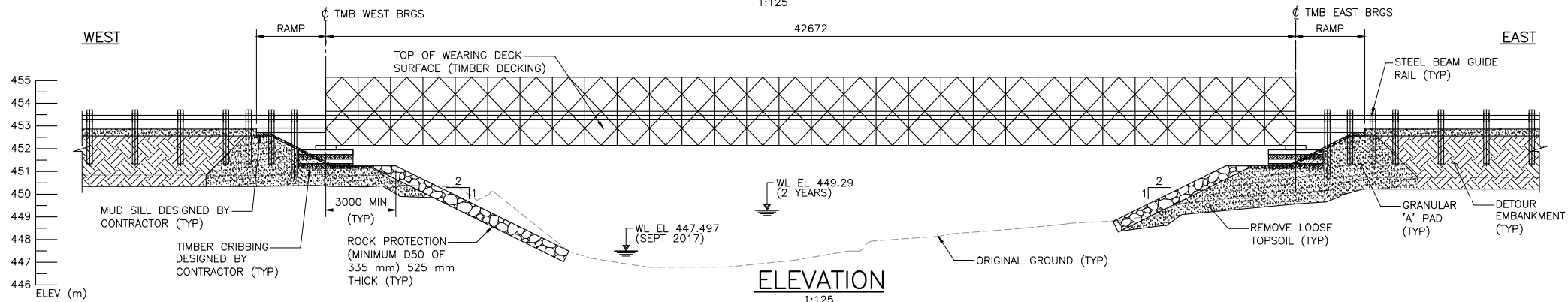
NO.	DESCRIPTION	DATE	INITIAL	WVR	FIELD BK.	PAGE	PROJECT
1	ISSUED FOR TENDER	6/2/2025					077394
REVISIONS							

SCALE	AS SHOWN	DESIGNED	JP
DATE	FEBRUARY, 2025	CHECKED	JM
DRAFTING	OSM		
CHECKED	JP		
FIELD BK.			
BENCH M			

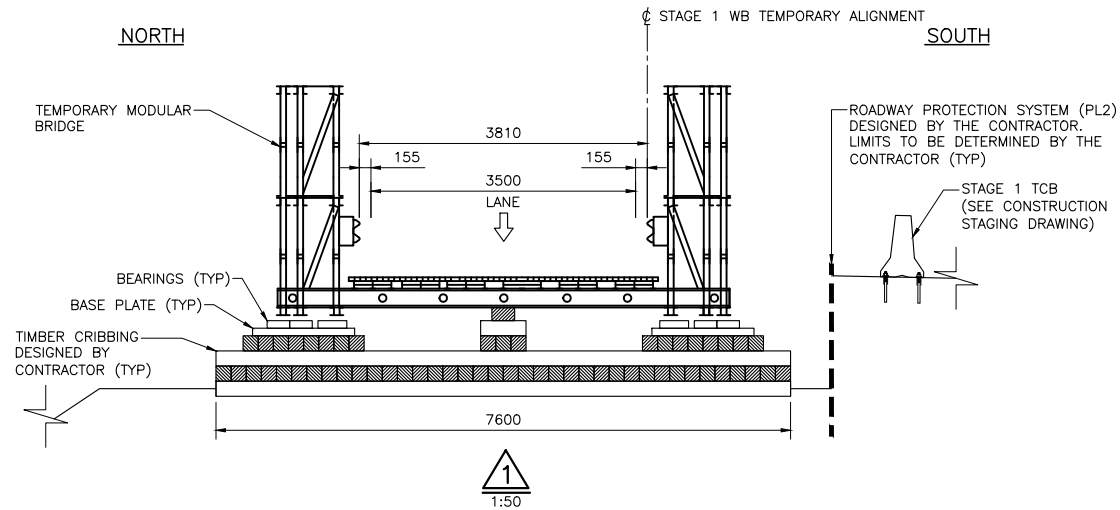
CAD FILE LOCATION AND NAME: c:\pwworking\gfpw01\haddukidri@gnfnet.com\d1782047\077394_301_B109132_03_04_TEMPORARY MODULAR BRIDGE.dwg
MODIFIED: 2/4/2025 10:48:48 AM BY: AWARD
DATE PLOTTED: 2/4/2025 3:59:18 PM BY: AWARD



PLAN
1:125



ELEVATION
1:125



1
1:50

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, SUPPLY, DELIVERY, ERECTION, REMOVAL, AND MAINTENANCE / OPERATION OF THE NEW MODULAR BRIDGE INCLUDING BUT NOT LIMITED TO ALL SUPPORTS AND FOUNDATION PREPARATION.
2. REFER TO STAGING DRAWINGS FOR HORIZONTAL AND VERTICAL ALIGNMENT OF DETOUR.
3. THE CONTRACTOR SHALL DESIGN THE TEMPORARY MODULAR BRIDGE, INCLUDING SUPERSTRUCTURE AND SUBSTRUCTURE, IN ACCORDANCE WITH CANADIAN HIGHWAY BRIDGE DESIGN CODE S6-19 (CHBDC-19).
4. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS OF TEMPORARY MODULAR BRIDGE COMPONENTS BEFORE ESTABLISHING ELEVATION OF BEARING SEATS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE ERECTION, LAUNCHING, AND DELAUNCHING OF THE STRUCTURE AND SHALL SUBMIT TO THE CONTRACT ADMINISTRATOR WORKING DRAWINGS AS SPECIFIED IN THE SPECIAL PROVISIONS SHOWING ALL NECESSARY DETAILS AND REQUIREMENTS TO CARRY OUT THESE OPERATIONS.
6. REMOVE TOPSOIL, ORGANIC, DELETERIOUS AND/OR OTHER UNSUITABLE MATERIALS UNDER THE AREA OF PROPOSED NEW GRANULAR PAD AND EMBANKMENT. GRANULAR PAD SHALL NOT BE PLACED UNTIL THE CHARACTER OF THE FOUNDATION SOIL HAS BEEN APPROVED BY THE GEOTECHNICAL ENGINEER.
7. BENCHING IN THE AREA WHERE THE SLOPE OF EXISTING GROUND IS STEEPER THAN 3H:1V SHALL BE IN ACCORDANCE WITH OPSD 208.010.

SUGGESTED SEQUENCE OF WORK:

1. CONSTRUCT EAST AND WEST GRANULAR PAD AND TIMBER CRIBBING.
2. INSTALL ROLLERS AND ASSEMBLE MODULAR BRIDGE INCLUDING LAUNCHING NOSE.
3. LAUNCH BRIDGE, REMOVE LAUNCHING NOSE, JACK BRIDGE, AND REMOVE ROLLERS, INSTALL BEARINGS.
4. ONCE IN FINAL LOCATION, INSTALL RAMPS, TIMBER DECKING, STEEL BEAM GUIDE RAIL AND LEVEL BRIDGE.
5. COMPLETE GRADING ON APPROACHES, PAVE APPROACHES, COMPLETE SIGNS, LINE MARKINGS, ETC.

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.



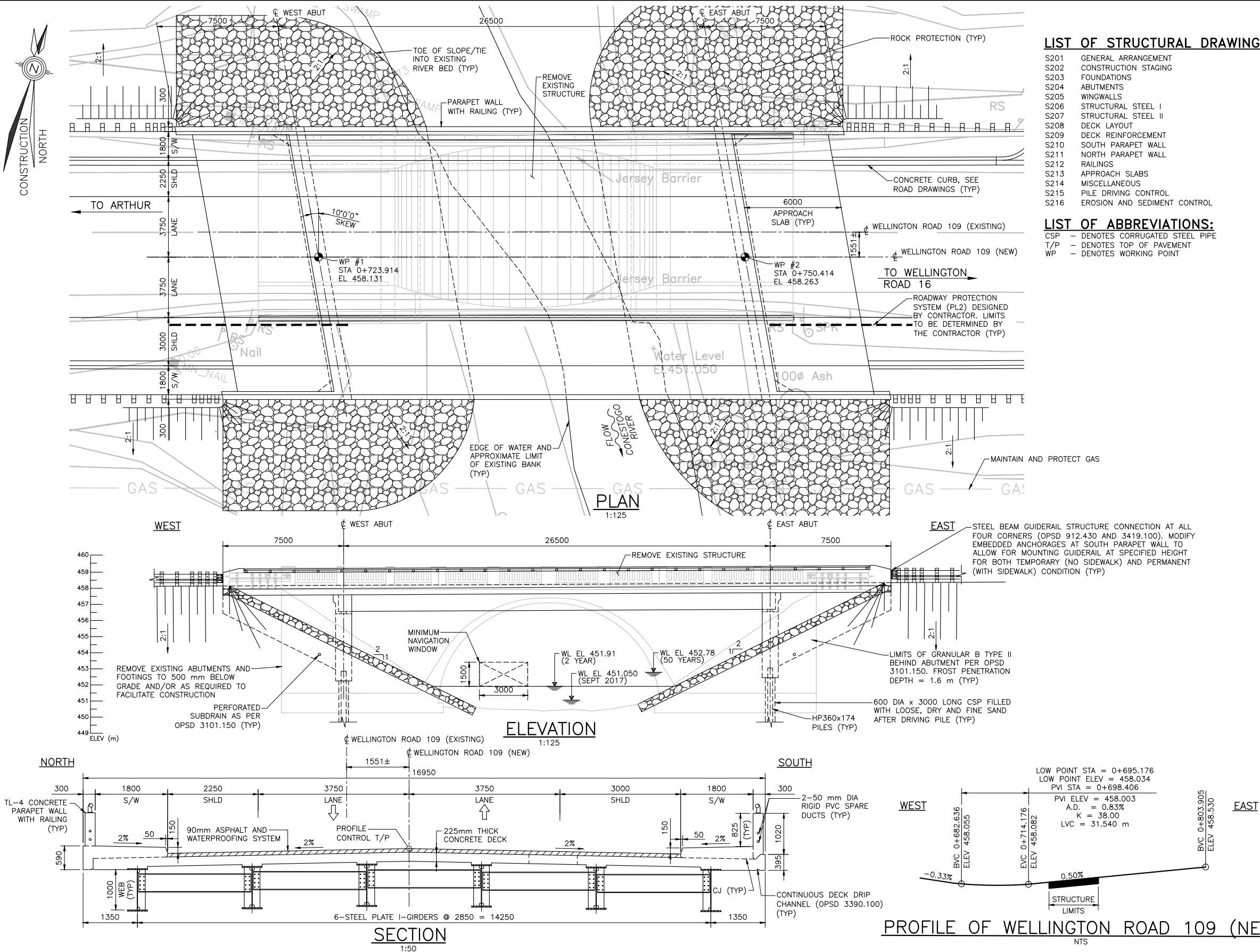
COUNTY OF WELLINGTON
CONESTOGO RIVER BRIDGE No.6
STRUCTURE No. B109132
TEMPORARY MODULAR BRIDGE I

CW2025-020
PROJECT NO.
DRAWING NO.
S103

SCALE	AS SHOWN	DESIGNED	AJW/XYL
DATE	FEB/2025	CHECKED	WVR
DRAFTING	HA	DESIGN CODE	CAN/CSA S6-19
CHECKED	AJW/XYL		077394
FIELD BK.		PROJECT	
BENCH M			

NO.	DESCRIPTION	DATE	INITIAL
1	ISSUED FOR TENDER	8/2/2025	WVR
	REVISIONS		

CAD FILE LOCATION AND NAME: c:\pwworking\gfbw01\habdulakadir@gnfnet.com\d1794644\077394_302_B109123_01_GA.dwg
MODIFIED: 2/3/2025 3:48:18 PM BY: HABDULKADIR
DATE PLOTTED: 2/4/2025 3:32:54 PM BY: HABDULKADIR



THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.



NO.	DESCRIPTION	DATE	INITIAL
1	ISSUED FOR TENDER	6/2/2025	WVR
REVISIONS			



SCALE	AS SHOWN	DESIGNED	AJW/XYL
DATE	FEB/2025	CHECKED	WVR
DRAFTING	SC	DESIGN CODE	CAN/CSA S6-19
CHECKED	AJW/XYL	PROJECT	077394
FIELD BK.	PAGE		
BENCH M			

COUNTY OF WELLINGTON	CW2025-020
CONESTOGO RIVER BRIDGE No.5	PROJECT NO.
STRUCTURE No. B109123	DRAWING NO.
GENERAL ARRANGEMENT	S201

GENERAL NOTES:

DESIGN CODE:

CANADIAN HIGHWAY BRIDGE DESIGN CODE, CHBDC 2019 CSA S6:19
LIVE LOAD: CL-625-ONT

CLASS OF CONCRETE:

THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH OF CONCRETE IS 35 MPa AND THE EXPOSURE CLASS SHALL BE C-1 PER CSA A23.1:19/A23.2:19, UNLESS NOTED OTHERWISE.

CLEAR COVER TO REINFORCING STEEL:

DECK	
TOP	70 ± 20 mm
BOTTOM	40 ± 10 mm
REMAINDER, UNLESS OTHERWISE NOTED	70 ± 20 mm

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE GRADE 400W.
- UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS B.
- STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500MPa, UNLESS OTHERWISE SPECIFIED.
- BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
- BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS INDICATED OTHERWISE.

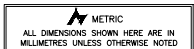
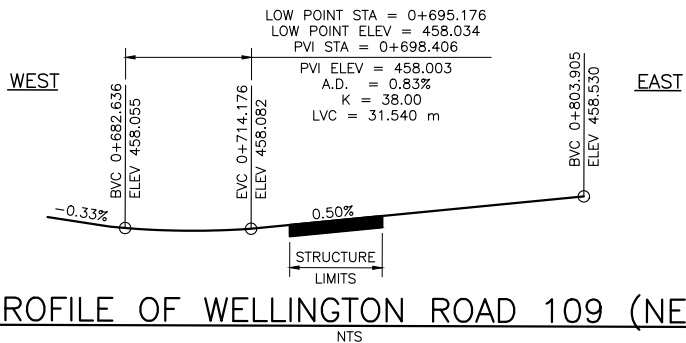
CONSTRUCTION NOTES:

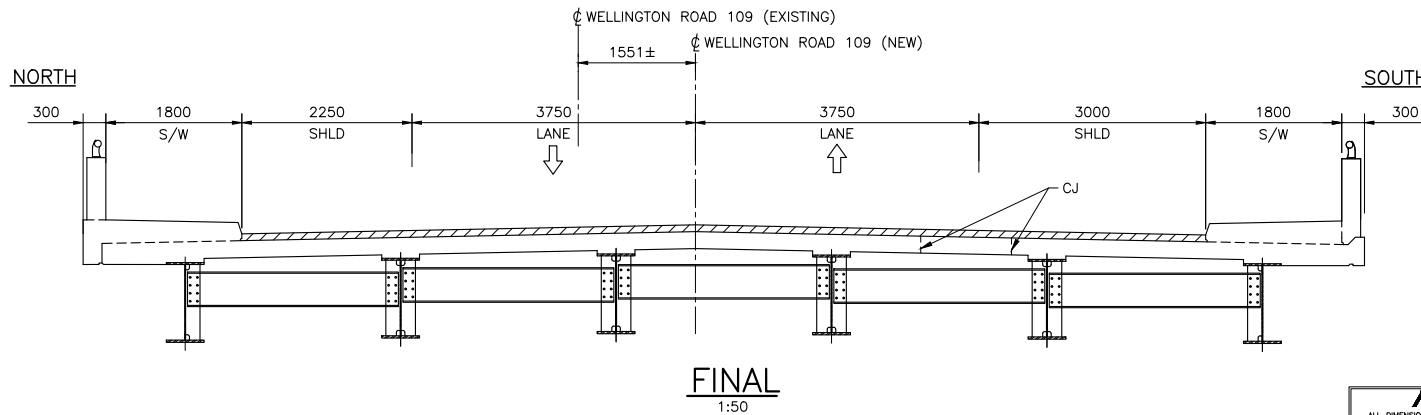
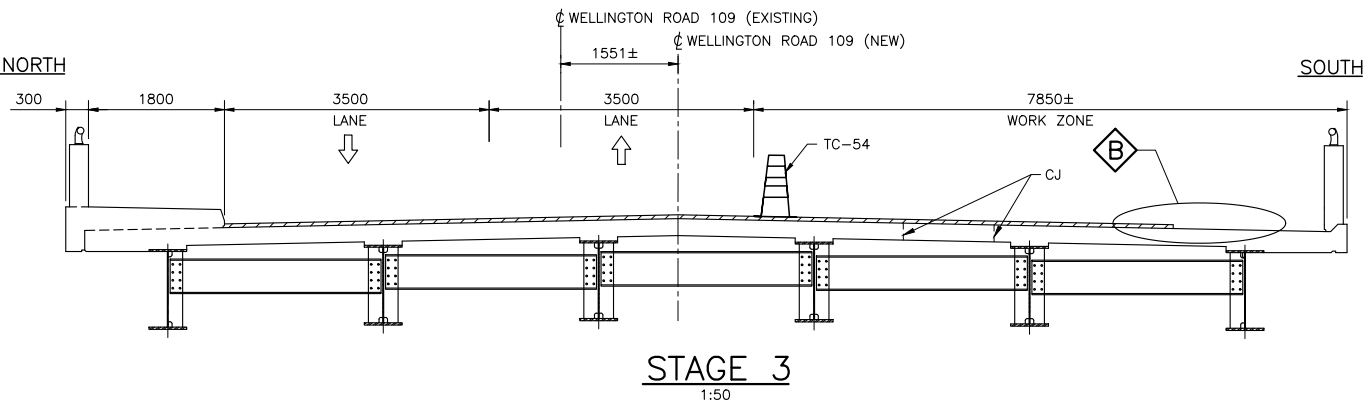
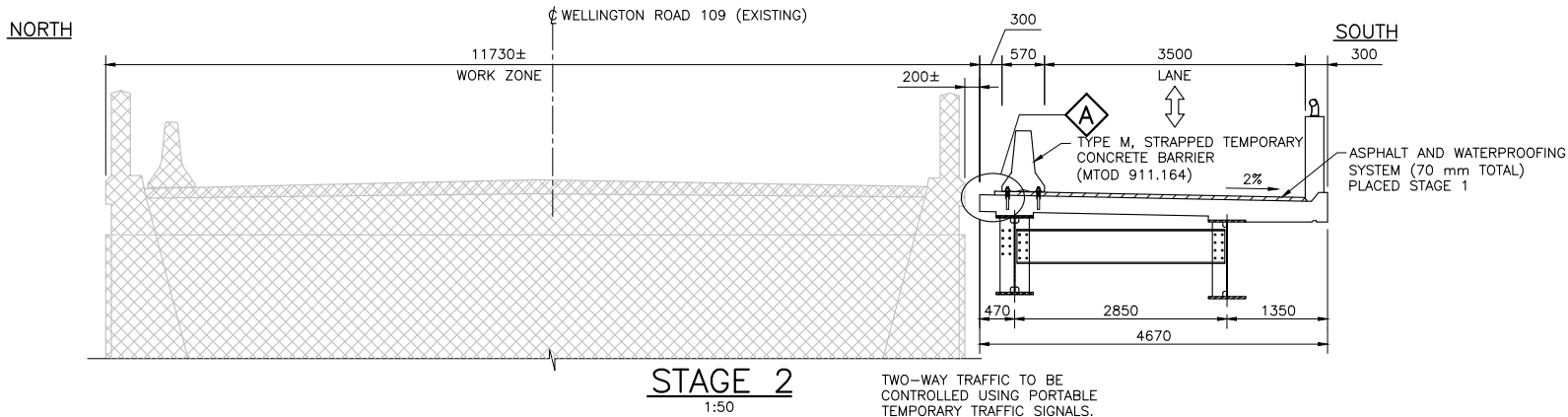
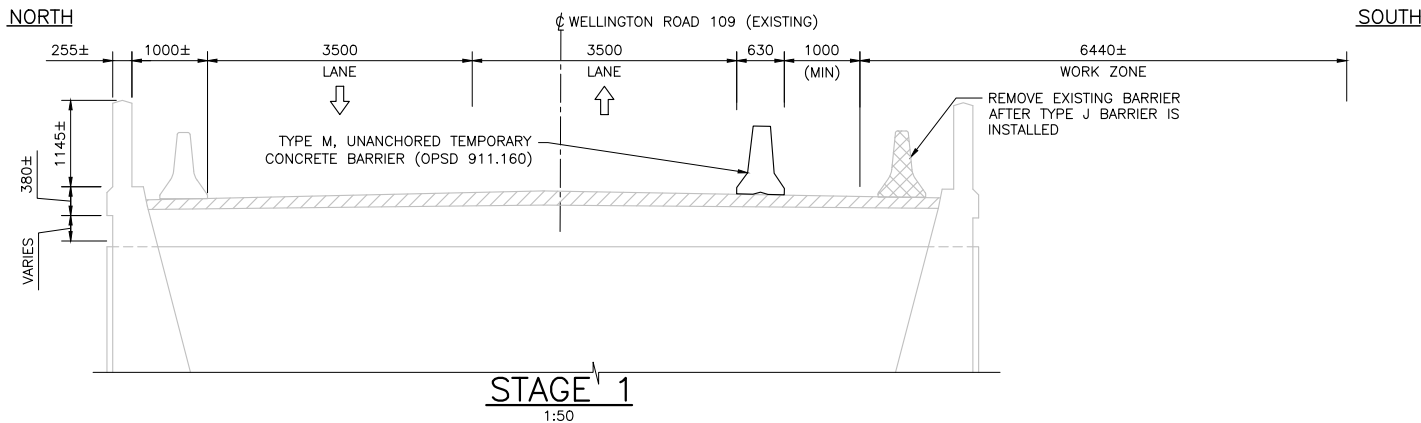
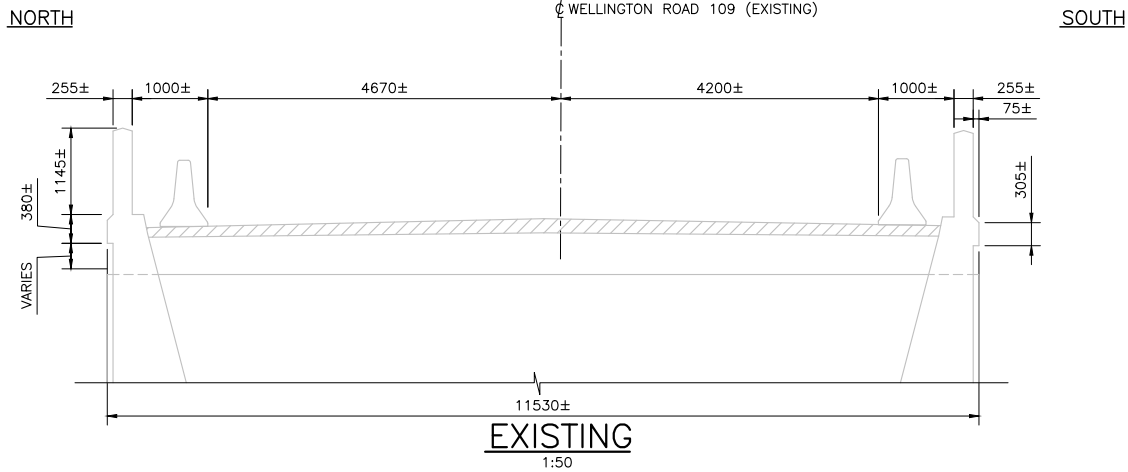
- THE CONTRACTOR SHALL ESTABLISH THE BEARING SEAT ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESSES FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESSES ARE DIFFERENT FROM THOSE GIVEN IN THE DRAWINGS, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
- BACKFILL SHALL NOT BE PLACED BEHIND THE ABUTMENTS UNTIL THE DECK SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH.
- BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH ABUTMENTS KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500 mm.
- CONSTRUCT ABUTMENTS AND WINGWALLS TO THE BEARING SEAT ELEVATIONS. THE CONTRACTOR SHALL SUPPLY TEMPORARY LATERAL BRACING FOR THE ABUTMENTS. FORMWORK AND LATERAL BRACING SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED 28-DAY STRENGTH.
- SUBDRAINS BEHIND ABUTMENTS SHALL BE EXTENDED TO THE LIMIT OF GRADING FROM SLOPE TO SLOPE AND INSTALLED COMPLETE WITH RODENT GRATING (TYPICAL).
- ROCK PROTECTION (MINIMUM D50 OF 335 mm) SHALL BE PLACED TO A DEPTH OF 525 mm AS SHOWN. ROCK PROTECTION SHALL BE TOP DRESSED WITH A 100mm THICK LAYER OF TABLE A SUBSTRATE WITHIN MAIN CHANNEL.
- ACCESS TO PRIVATE ENTRANCES WITHIN LIMITS OF CONSTRUCTIONS ZONE TO BE MAINTAINED AT ALL TIMES.
- NO INSTREAM WORK IS PERMITTED BETWEEN APRIL 1 AND JUNE 30 OF ANY YEAR. IN-WATER WOK IS PERMITTED BETWEEN JULY 1 AND MARCH 31.
- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 20mm.
- LOCATIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION, AS WELL AS FOR JOB SAFETY. JOB SAFETY, CONSTRUCTION AND DEMOLITION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONS TO MINIMIZE VIBRATION, NOISE, DUST AND DEBRIS IN ALL AREAS ADJACENT TO AREA OF DEMOLITION.
- ASPHALT PAVING ON THE BRIDGE DECK AND APPROACH SLABS SHALL BE 2 LIFTS OF HL1.
- A COFFERDAM IS ANTICIPATED TO BE REQUIRED TO REMOVE THE EXISTING ABUTMENTS AND INSTALL ROCK PROTECTION. THE COFFERDAM SHALL BE DESIGNED BY THE CONTRACTOR (TO BE APPROVED BY GRCA) FOR AN ELEVATION 0.3 m ABOVE THE 2 YEAR FLOW WATER LEVEL.

APPLICABLE STANDARD DRAWINGS:

OPSD - 0912.430	GUIDE RAIL SYSTEM, STEEL BEAM STRUCTURE CONNECTION
OPSD - 3101.150	WALLS, ABUTMENT, BACKFILL
OPSD - 3102.100	MINIMUM GRANULAR REQUIREMENT
OPSD - 3190.100	WALLS, ABUTMENT, BACKFILL DRAIN
OPSD - 3370.100	WALLS, RETAINING AND ABUTMENT WALL DRAIN
	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD
OPSD - 3390.100	DECK DRIP CHANNEL
OPSD - 3419.100	BARRIERS AND RAILINGS STEEL GUIDE RAIL AND CHANNEL ANCHORAGE
OPSD - 3950.100	CONCRETE EXPANSION AND CONSTRUCTION JOINT ON STRUCTURE

PROFILE OF WELLINGTON ROAD 109 (NEW)





LEGEND:

REMOVALS

NOTES:

1. READ THIS DRAWING IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.
2. FOR TRAFFIC CONTROL DETAILS, SEE TRAFFIC STAGING DRAWINGS.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, INSTALLED, MAINTAINED, RELOCATED & REMOVED BY THE CONTRACTOR THROUGHOUT THE STAGES IN ACCORDANCE WITH THE LATEST EDITION OF BOOK 7 (TEMPORARY CONDITIONS) OF THE MTO's ONTARIO TRAFFIC MANUAL.
4. THE CONTRACTOR SHALL COVER ANY EXISTING TRAFFIC CONTROL SIGNS THAT CONFLICT WITH TEMPORARY SIGNAGE AND TRAFFIC CONTROL REQUIRED FOR CONSTRUCTION STAGING.
5. ANY EXISTING TRAFFIC CONTROL SIGNS REMOVED SHALL BE REINSTATED UPON REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES.
6. TEMPORARY PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL SIGNS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
7. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TEMPORARY MARKINGS SHALL BE REMOVED BY GRINDING.
8. ALL PAVEMENT MARKING (TEMPORARY AND PERMANENT) TO BE SUPPLIED, INSTALLED, RELOCATED AND/OR REMOVED BY THE CONTRACTOR.
9. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT.

PROPOSED SEQUENCE OF WORK:

- STAGE 1 – CONSTRUCTION ON THE SOUTH SIDE
1. PROVIDE SEDIMENT CONTROL AND CONTAINMENT MEASURES AROUND WORK SITE, AND INSTALL TEMPORARY COFFERDAMS.
 2. SET UP STAGE 1 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109 AND DIVERT TRAFFIC.
 3. CARRY OUT STAGE 1 NEW CONSTRUCTION.
 4. PLACE STAGE 1 WATERPROOFING AND BASE COURSE ASPHALT.
- STAGE 2 – CONSTRUCTION ON THE NORTH SIDE
5. SET UP STAGE 2 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109.
 6. CARRY OUT STAGE 2 REMOVALS AND NEW CONSTRUCTION.
 7. PLACE STAGE 2 WATERPROOFING AND BASE COURSE ASPHALT.
- STAGE 3 – CONSTRUCTION ON THE SOUTH SIDEWALK
8. REMOVE ASPHALT AT SOUTH SIDEWALK (FULL DEPTH).
 9. CONSTRUCT SOUTH SIDEWALK.
 10. WATERPROOF AND PAVE BASE COURSE ASPHALT ADJACENT TO SOUTH SIDEWALK, AND REPAIR TCB RESTRAINT HOLES.
 11. MILL BASE COURSE ASPHALT AND PLACE SURFACE COURSE ASPHALT (FULL WIDTH) AND FINAL PAVEMENT MARKINGS.

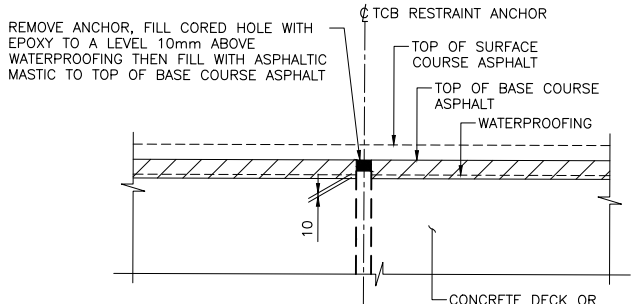
APPLICABLE STANDARD DRAWINGS:

OPSD – 0911.160 GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION-TEMPORARY 1

OPSD – 0911.164 GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION-TEMPORARY RESTRAINT SYSTEM STRAPPED TO CONCRETE WITH ASPHALT SURFACE

RESTRAINT ANCHOR REPAIR DETAIL

1:10



CAD FILE LOCATION AND NAME: c:\pwworking\gfpw01\hdbulkadri\gfpw01\794644\077394_302_B109123_02_STAGING.dwg
MODIFIED: 2/3/2025 3:49:27 PM BY: HABDULKADIR
DATE PLOTTED: 2/4/2025 3:32:55 PM BY: HABDULKADIR

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.



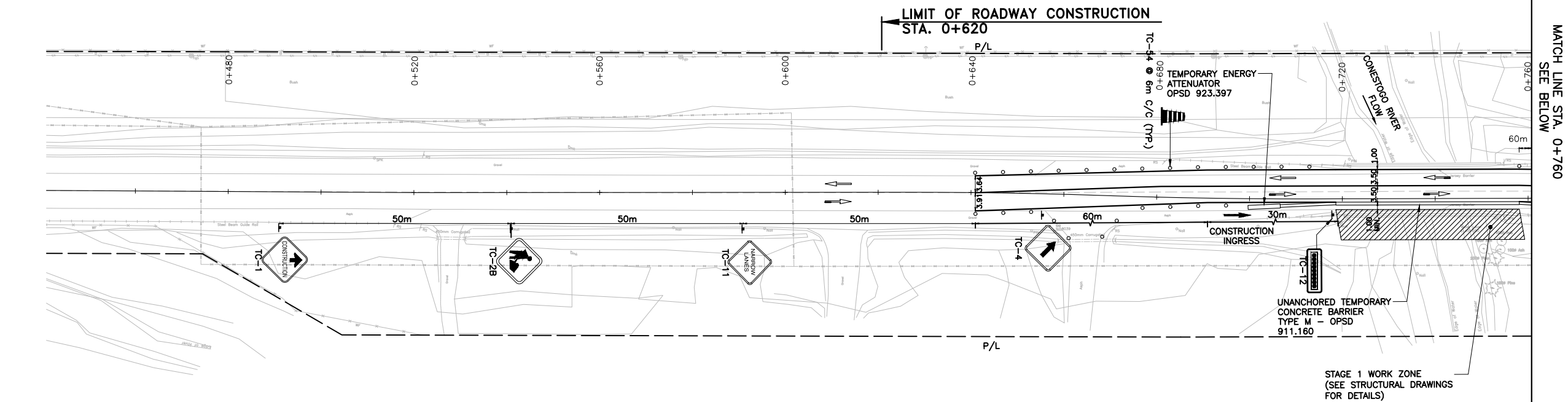
NO.	DESCRIPTION	DATE	INITIAL	FIELD BK.	PAGE	BENCH M
1	ISSUED FOR TENDER	6/2/2025	WVR	CHECKED	AJW/XYL	
	REVISIONS					



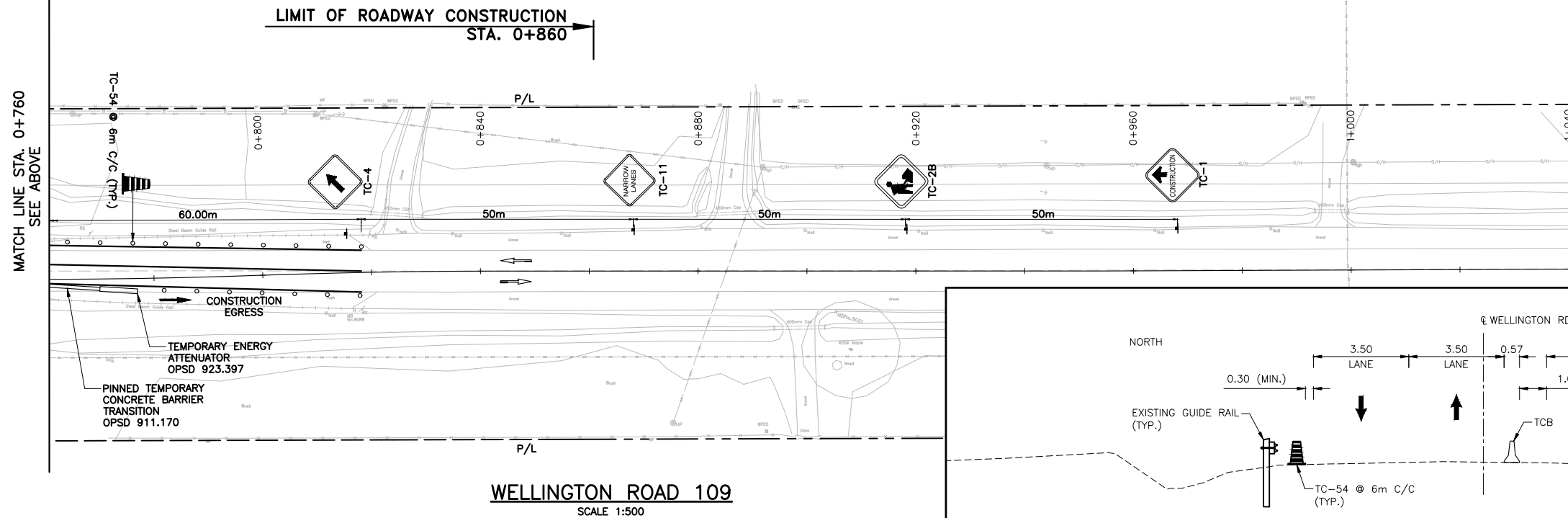
SCALE	AS SHOWN	DESIGNED	AJW/XYL
DATE	FEB/2025	CHECKED	WVR
DRAFTING	SC	DESIGN CODE	CAN/CSA S6-19
1	ISSUED FOR TENDER	6/2/2025	WVR
NO.	DESCRIPTION	DATE	INITIAL
	FIELD BK.		
	BENCH M		

COUNTY OF WELLINGTON	CW2025-020
CONESTOGO RIVER BRIDGE No.5	PROJECT NO.
STRUCTURE No. B109123	DRAWING NO.
CONSTRUCTION STAGING	S202

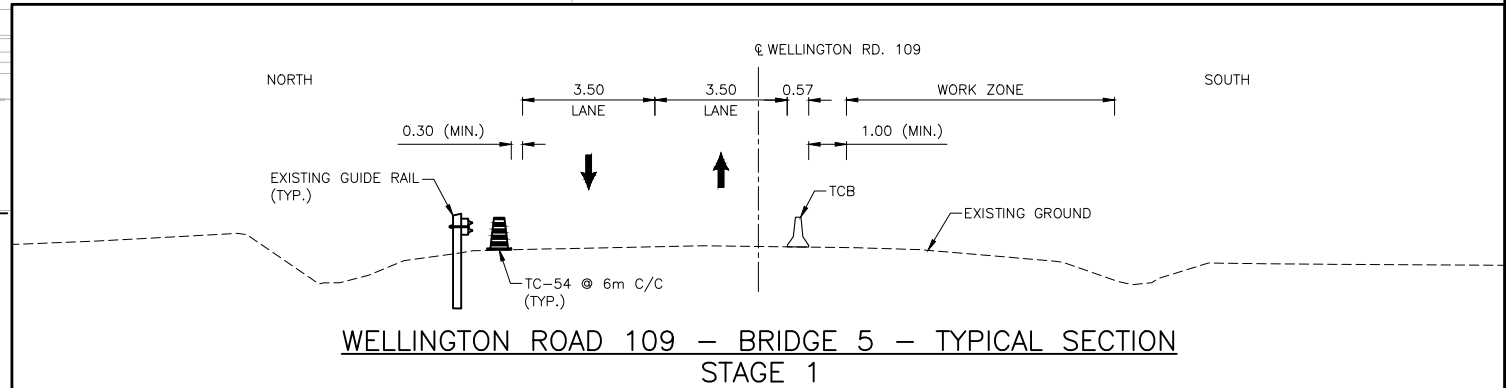
CAD FILE LOCATION AND NAME: C:\pwworking\gfm\01\park\gfmnet.com\181256\077394 - Wellington 109 Bridge Replacements - Stage 1 - Sheet.dwg
MODIFIED: 2/2/2025 10:52:36 PM BY: JPARK
DATE PLOTTED: 2/4/2025 2:14:51 PM BY: PARK, JASON



WELLINGTON ROAD 109
SCALE 1:500



WELLINGTON ROAD 109
SCALE 1:500



WELLINGTON ROAD 109 - BRIDGE 5 - TYPICAL SECTION
STAGE 1

- LEGEND:**
- WORK ZONE
 - CONSTRUCTION INGRESS/EGRESS
 - TRAFFIC DIRECTION
 - TC-54
 - PROPOSED SIGN



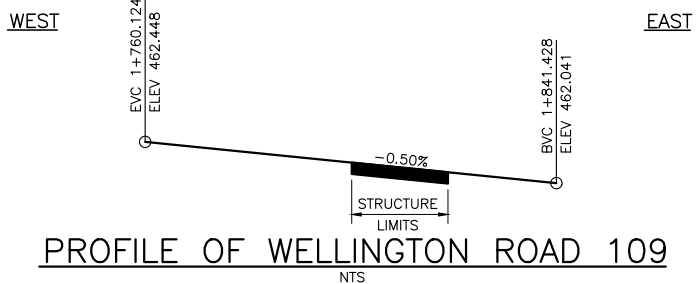
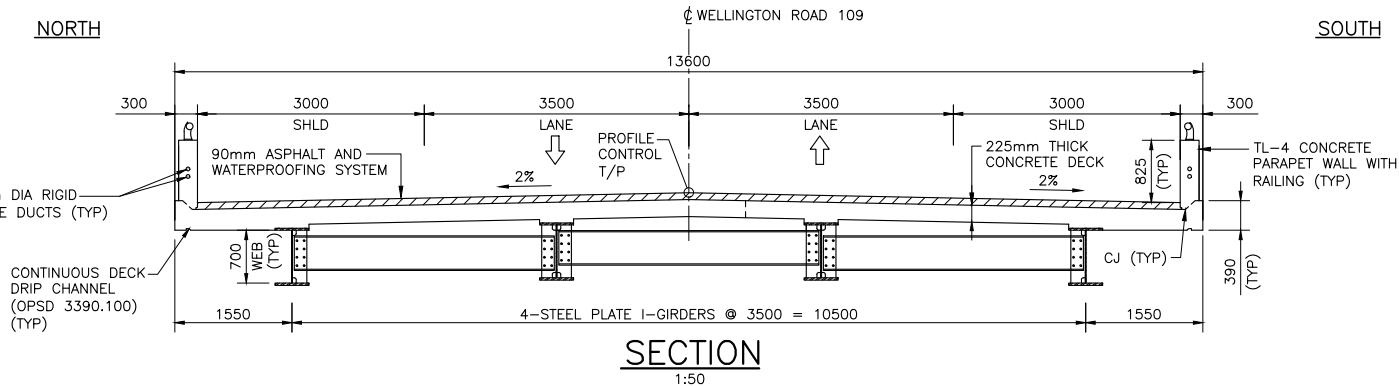
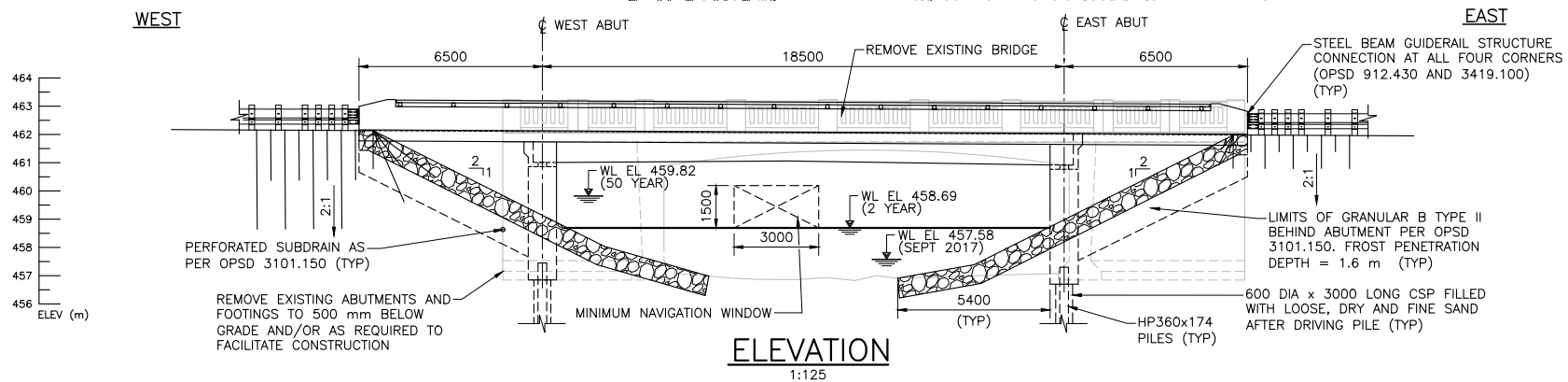
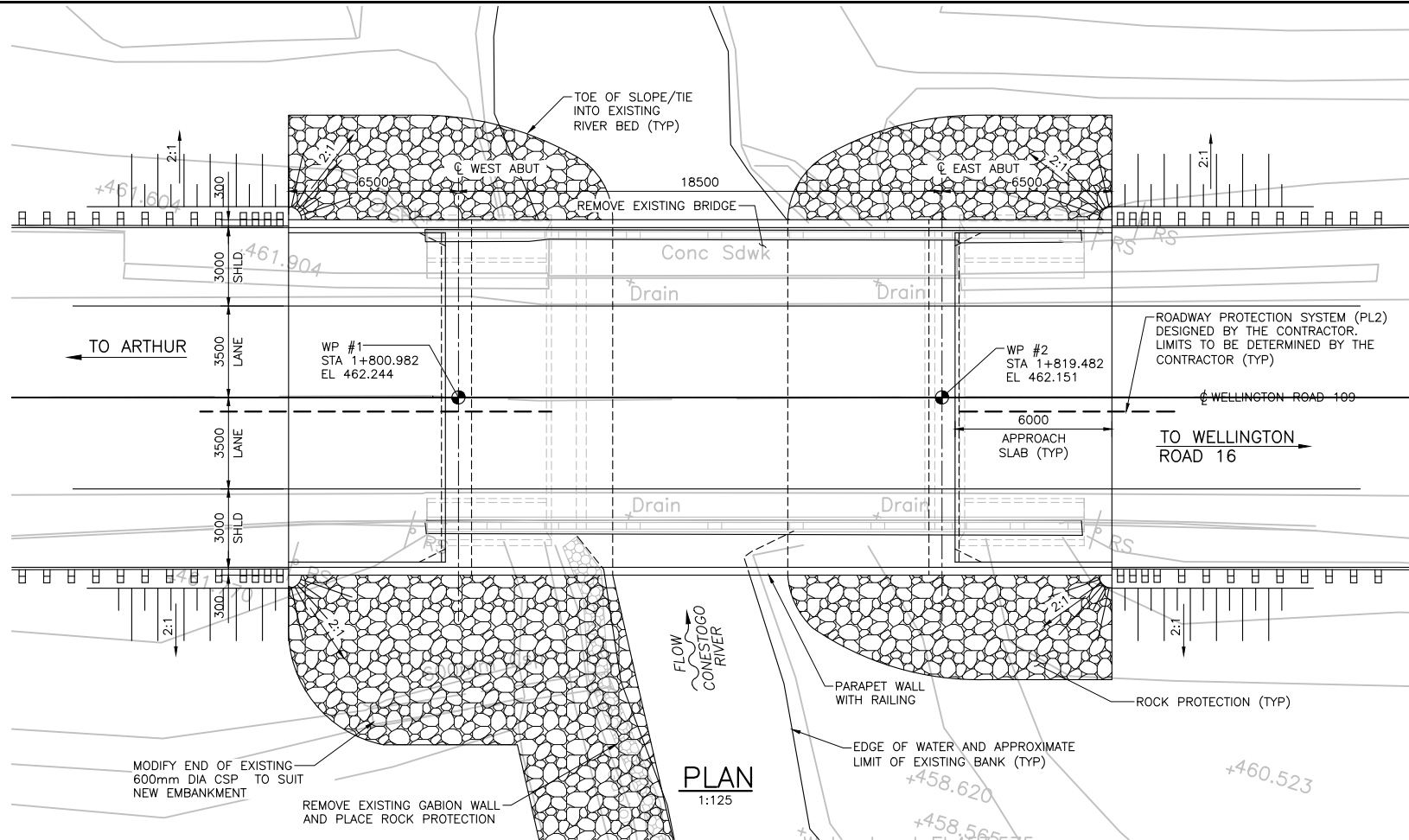
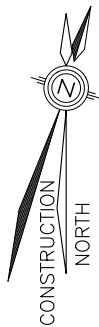
DISCLAIMER:
THESE DESIGN DOCUMENTS ARE PREPARED
SOLELY FOR THE USE BY THE PARTY WITH
WHOM THE DESIGN PROFESSIONAL HAS
ENTERED INTO A CONTRACT AND THERE ARE
NO REPRESENTATIONS OF ANY KIND MADE BY
THE DESIGN PROFESSIONAL TO ANY PARTY
WITH WHOM THE DESIGN PROFESSIONAL HAS
NOT ENTERED INTO A CONTRACT.

NO.	DESCRIPTION	DATE	INITIAL
1	ISSUED FOR TENDER	6/2/2025	WVR
REVISIONS			

SCALE	AS SHOWN	DESIGNED	JP
DATE	FEBRUARY, 2025	CHECKED	JM
DRAFTING	OSM		
CHECKED	JP		
FIELD BK.	PAGE		
BENCH M			
		PROJECT	077394

COUNTY OF WELLINGTON		CW2025-020
REPLACEMENT OF CONESTOGO RIVER BRIDGE No. 5 STRUCTURE No. B109123		
TRAFFIC CONTROL PLAN – STAGE 1		CONTRACT NO.
		DRAWING NO.
		TC201

CAD FILE LOCATION AND NAME: c:\pwworking\gfpw01\habdulcadir\dwg\1794642\077394_303_B109133_01_GA.dwg
MODIFIED: 2/3/2025 4:11:07 PM BY: HABDULKADIR
DATE PLOTTED: 2/5/2025 9:06:20 AM BY: HABDULKADIR



LIST OF STRUCTURAL DRAWINGS:

S301	GENERAL ARRANGEMENT
S302	CONSTRUCTION STAGING
S303	FOUNDATIONS
S304	ABUTMENTS
S305	WINGWALLS
S306	STRUCTURAL STEEL I
S307	STRUCTURAL STEEL II
S308	DECK LAYOUT
S309	DECK REINFORCEMENT
S310	PARAPET WALLS
S311	RAILINGS
S312	APPROACH SLABS
S313	MISCELLANEOUS
S314	PILE DRIVING CONTROL
S315	EROSION AND SEDIMENT CONTROL

APPLICABLE STANDARD DRAWINGS:

OPSD - 0912.430	GUIDE RAIL SYSTEM, STEEL BEAM STRUCTURE CONNECTION
OPSD - 3101.150	WALLS, ABUTMENT, BACKFILL MINIMUM GRANULAR REQUIREMENT
OPSD - 3102.100	WALLS, ABUTMENT, BACKFILL DRAIN
OPSD - 3190.100	WALLS, RETAINING AND ABUTMENT WALL DRAIN
OPSD - 3370.100	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD
OPSD - 3390.100	DECK DRIP CHANNEL
OPSD - 3419.100	BARRIERS AND RAILINGS STEEL GUIDE RAIL AND CHANNEL ANCHORAGE
OPSD - 3950.100	CONCRETE EXPANSION AND CONSTRUCTION JOINT ON STRUCTURE

GENERAL NOTES:

DESIGN CODE:

CANADIAN HIGHWAY BRIDGE DESIGN CODE, CHBDC 2019 CSA S6:19
LIVE LOAD: CL-625-ONT

CLASS OF CONCRETE:

THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH OF CONCRETE IS 35 MPa AND THE EXPOSURE CLASS SHALL BE C-1 PER CSA A23.1:19/A23.2:19, UNLESS NOTED OTHERWISE.

CLEAR COVER TO REINFORCING STEEL:

DECK TOP	70 ± 20 mm
BOTTOM	40 ± 10 mm
REMAINDER, UNLESS OTHERWISE NOTED	70 ± 20 mm

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE GRADE 400W.
- UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS B.
- STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500MPa, UNLESS OTHERWISE SPECIFIED.
- BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
- BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS INDICATED OTHERWISE.

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL ESTABLISH THE BEARING SEAT ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESSES FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESSES ARE DIFFERENT FROM THOSE GIVEN IN THE DRAWINGS, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
- BACKFILL SHALL NOT BE PLACED BEHIND THE ABUTMENTS UNTIL THE DECK SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH.
- BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH ABUTMENTS KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500 mm.
- CONSTRUCT ABUTMENTS AND WINGWALLS TO THE BEARING SEAT ELEVATIONS. THE CONTRACTOR SHALL SUPPLY TEMPORARY LATERAL BRACING FOR THE ABUTMENTS. FORMWORK AND LATERAL BRACING SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED 28-DAY STRENGTH.
- SUBDRAINS BEHIND ABUTMENTS SHALL BE EXTENDED TO THE LIMIT OF GRADING FROM SLOPE TO SLOPE AND INSTALLED COMPLETE WITH RODENT GRATING (TYPICAL).
- ROCK PROTECTION (MINIMUM D50 OF 450 mm) SHALL BE PLACED TO A DEPTH OF 700 mm AS SHOWN. ROCK PROTECTION SHALL BE TOP DRESSED WITH A 100 mm THICK LAYER OF TABLE A SUBSTRATE WITHIN MAIN CHANNEL.
- ACCESS TO PRIVATE ENTRANCES WITHIN LIMITS OF CONSTRUCTIONS ZONE TO BE MAINTAINED AT ALL TIMES.
- NO INSTREAM WORK IS PERMITTED BETWEEN APRIL 1 AND JUNE 30 OF ANY YEAR. IN-WATER WORK IS PERMITTED BETWEEN JULY 1 AND MARCH 31.
- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 20mm.
- LOCATIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION, AS WELL AS FOR JOB SAFETY. JOB SAFETY, CONSTRUCTION AND DEMOLITION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONS TO MINIMIZE VIBRATION, NOISE, DUST AND DEBRIS IN ALL AREAS ADJACENT TO AREA OF DEMOLITION.
- ASPHALT PAVING ON THE BRIDGE DECK AND APPROACH SLABS SHALL BE 2 LIFTS OF HL1.
- A COFFERDAM IS ANTICIPATED TO BE REQUIRED TO REMOVE THE EXISTING ABUTMENTS AND INSTALL ROCK PROTECTION. THE COFFERDAM SHALL BE DESIGNED BY THE CONTRACTOR (TO BE APPROVED BY GRCA) FOR AN ELEVATION 0.3 m ABOVE THE 2 YEAR FLOW WATER LEVEL.


LIST OF ABBREVIATIONS:

TABUT	- DENOTES ABUTMENT
CSP	- DENOTES CORRUGATED STEEL PIPE
EL	- DENOTES ELEVATION
T/P	- DENOTES TOP OF PAVEMENT
TYP	- DENOTES TYPICAL
WL	- DENOTES WATER LEVEL
WP	- DENOTES WORKING POINT
CJ	- DENOTES CONSTRUCTION JOINT

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.



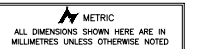
NO.	DESCRIPTION	DATE	INITIAL	WVR
1	ISSUED FOR TENDER	6/2/2025	WVR	
REVISIONS				

			GANNETT FLEMING	
SCALE		AS SHOWN	DESIGNED	AJW/XYL
DATE		FEB/2025	CHECKED	WVR
DRAWING		SC	DESIGN CODE	CAN/CSA S6-19
CHECKED		AJW/XYL		077394
FIELD BK.		PAGE	PROJECT	
BENCH M				

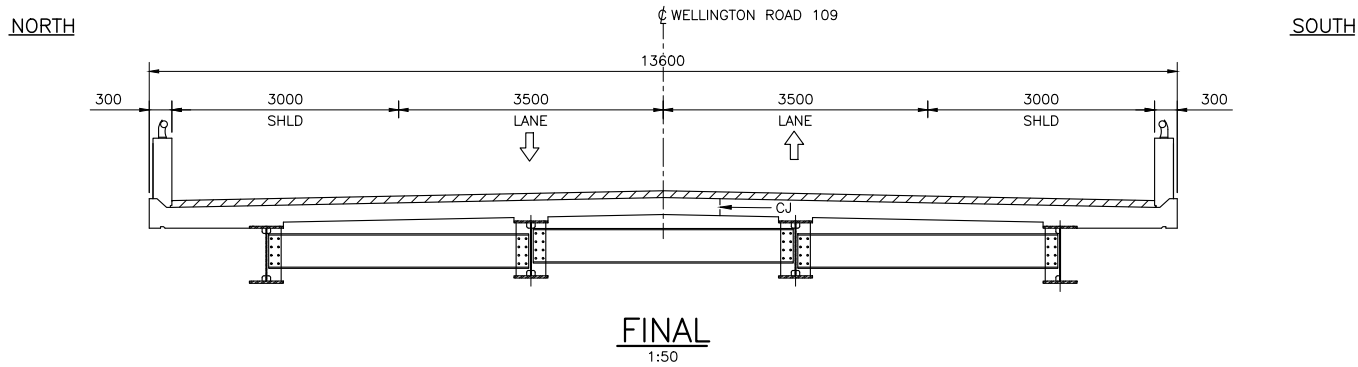
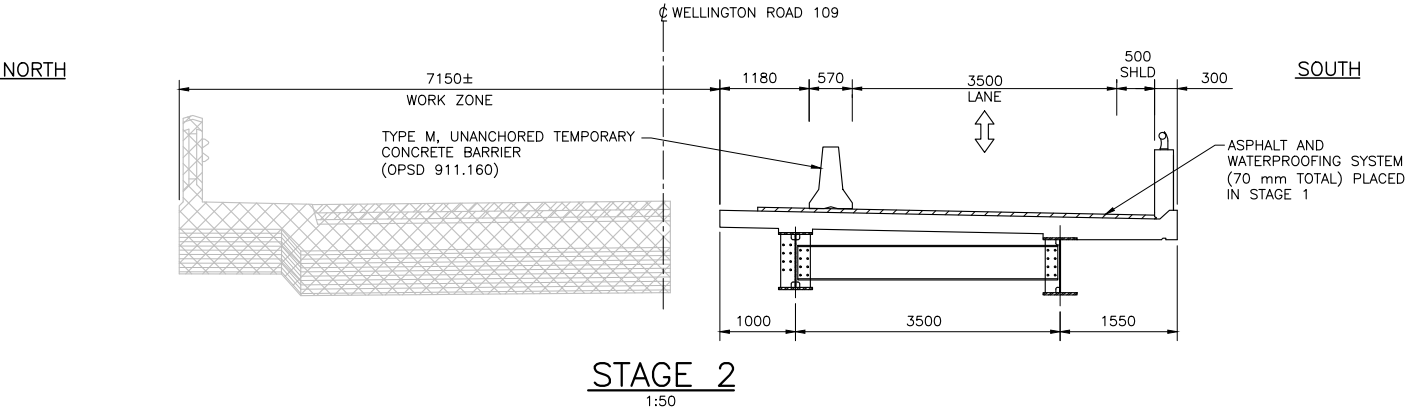
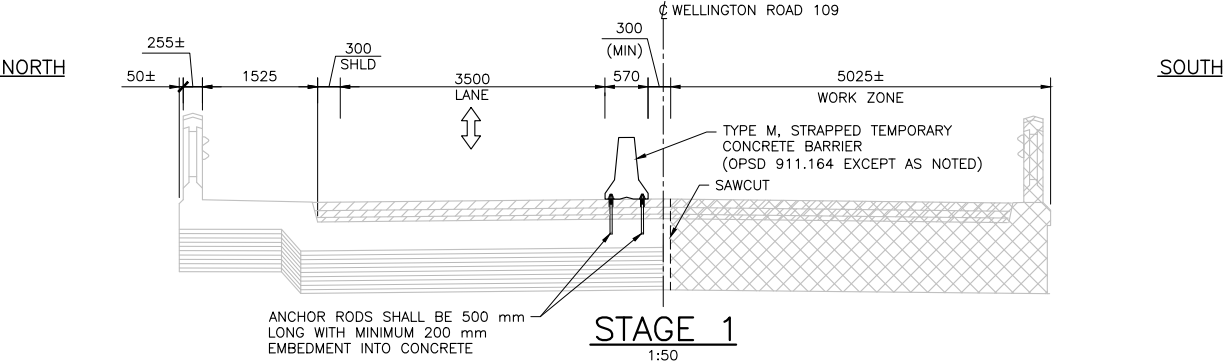
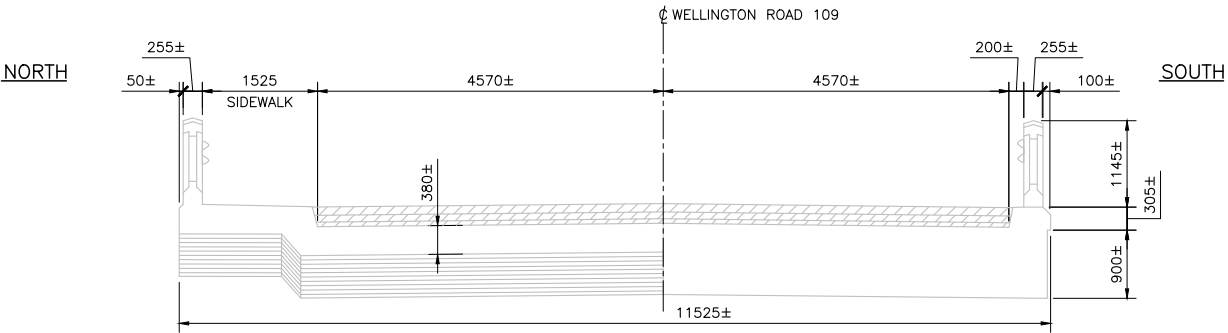


COUNTY OF WELLINGTON	CW2025-020
CONESTOGO RIVER BRIDGE No.4	
STRUCTURE No. B109133	
GENERAL ARRANGEMENT	S301

PROJECT NO.	CW2025-020
DRAWING NO.	S301



CAD FILE LOCATION AND NAME: c:\pwworking\gfpw01\habdulkadir\gfpw01\habdulkadir\dwg\1794642\077394_303_B109133_02_STAGING.dwg
MODIFIED: 2/3/2025 4:12:02 PM BY: HABDULKADIR
DATE PLOTTED: 2/5/2025 9:06:18 AM BY: HABDULKADIR



LEGEND:

REMOVALS

NOTES:

1. READ THIS DRAWING IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.
2. FOR TRAFFIC CONTROL DETAILS, SEE TRAFFIC STAGING DRAWINGS.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, INSTALLED, MAINTAINED, RELOCATED & REMOVED BY THE CONTRACTOR THROUGHOUT THE STAGES IN ACCORDANCE WITH THE LATEST EDITION OF BOOK 7 (TEMPORARY CONDITIONS) OF THE MTO's ONTARIO TRAFFIC MANUAL.
4. THE CONTRACTOR SHALL COVER ANY EXISTING TRAFFIC CONTROL SIGNS THAT CONFLICT WITH TEMPORARY SIGNAGE AND TRAFFIC CONTROL REQUIRED FOR CONSTRUCTION STAGING.
5. ANY EXISTING TRAFFIC CONTROL SIGNS REMOVED SHALL BE REINSTATED UPON REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES.
6. TEMPORARY PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL SIGNS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
7. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TEMPORARY MARKINGS SHALL BE REMOVED BY GRINDING.
8. ALL PAVEMENT MARKING (TEMPORARY AND PERMANENT) TO BE SUPPLIED, INSTALLED, RELOCATED AND/OR REMOVED BY THE CONTRACTOR.
9. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT.

PROPOSED SEQUENCE OF WORK:

- STAGE 1 – CONSTRUCTION ON THE SOUTH SIDE
1. PROVIDE SEDIMENT CONTROL AND CONTAINMENT MEASURES AROUND WORK SITE, AND INSTALL TEMPORARY COFFERDAMS.
 2. SET UP STAGE 1 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109.
 3. CARRY OUT STAGE 1 REMOVALS AND NEW CONSTRUCTION.
 4. PLACE STAGE 1 WATERPROOFING AND BASE COURSE ASPHALT.
- STAGE 2 – CONSTRUCTION ON THE NORTH SIDE
5. SET UP STAGE 2 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109.
 6. CARRY OUT STAGE 2 REMOVALS AND NEW CONSTRUCTION.
 7. PLACE STAGE 2 WATERPROOFING AND BASE COURSE ASPHALT.
 8. MILL BASE COURSE ASPHALT AND PLACE SURFACE COURSE ASPHALT (FULL WIDTH) AND FINAL PAVEMENT MARKINGS.

APPLICABLE STANDARD DRAWINGS:

- OPSD – 0911.160 GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION–TEMPORARY 1
- OPSD – 0911.164 GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION–TEMPORARY RESTRAINT SYSTEM STRAPPED TO CONCRETE WITH ASPHALT SURFACE

METRIC
ALL DIMENSIONS SHOWN HERE ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.

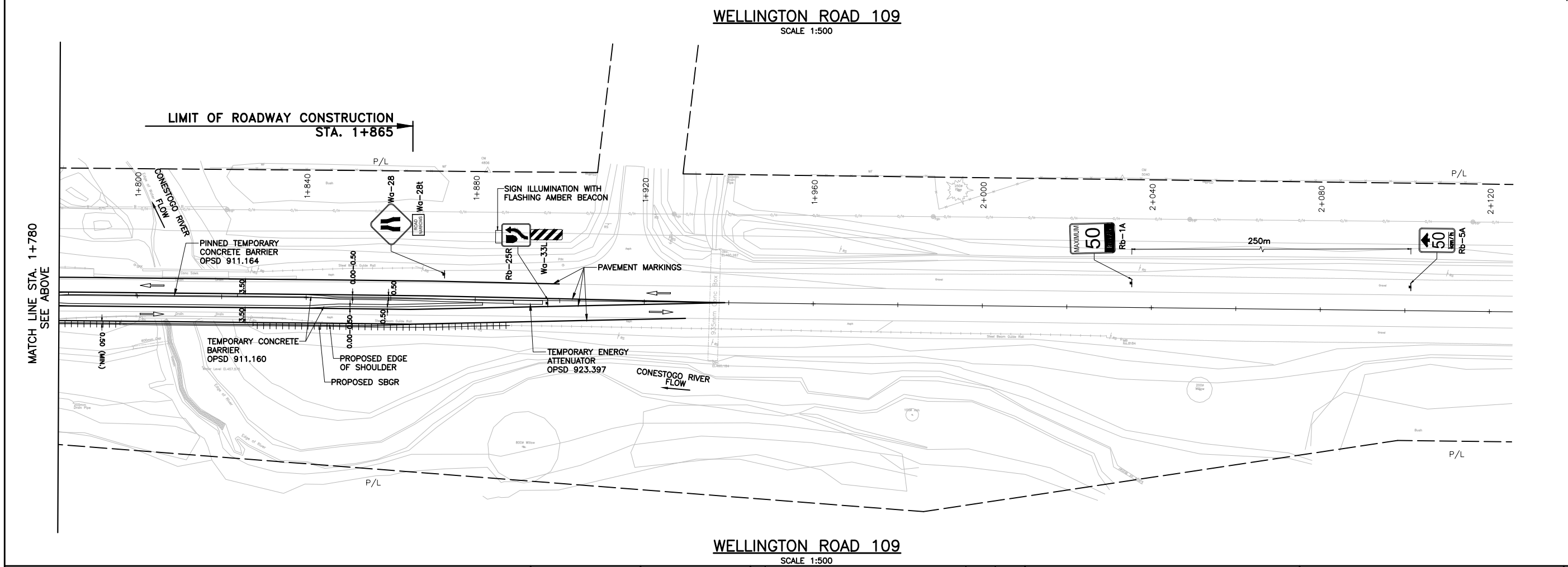
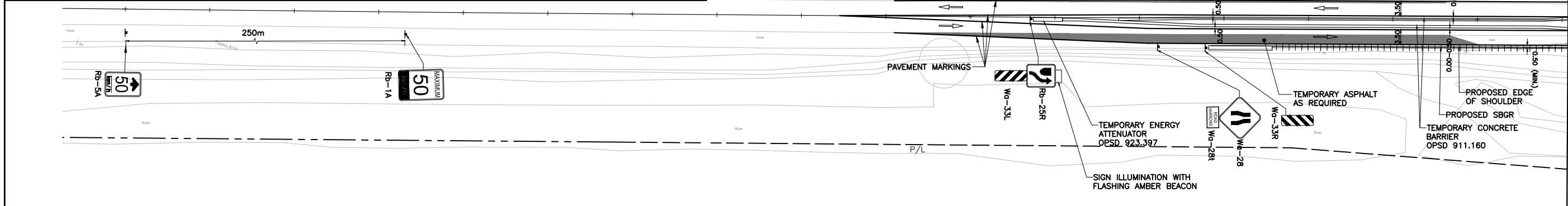
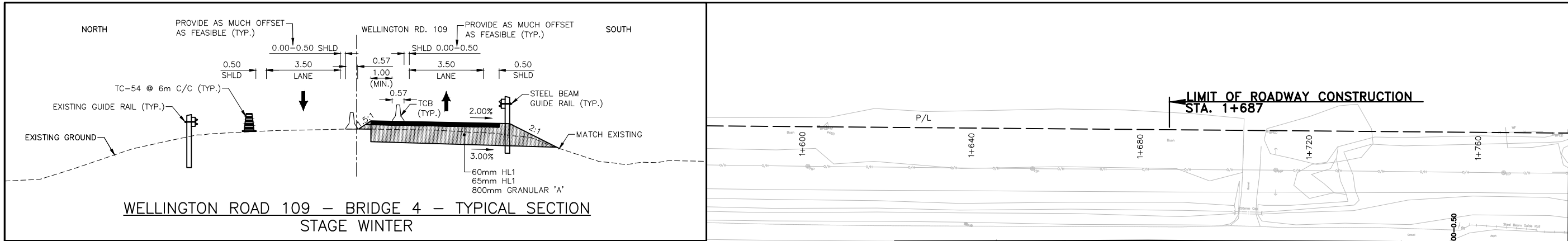


COUNTY OF WELLINGTON
CONESTOGO RIVER BRIDGE No.4
STRUCTURE No. B109133
CONSTRUCTION STAGING

CW2025–020
PROJECT NO.
DRAWING NO.
S302

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

CAD FILE LOCATION AND NAME: C:\pwworking\gfpw01\hxe\gnet\com\1811256\077394 - Wellington 109 Bridge Replacements - Stage Winter - Sheet.dwg
MODIFIED: 1/27/2025 11:44:16 AM BY: OSOTOMARTIN
DATE PLOTTED: 2/6/2025 1:03:44 PM BY: XUE, HANK



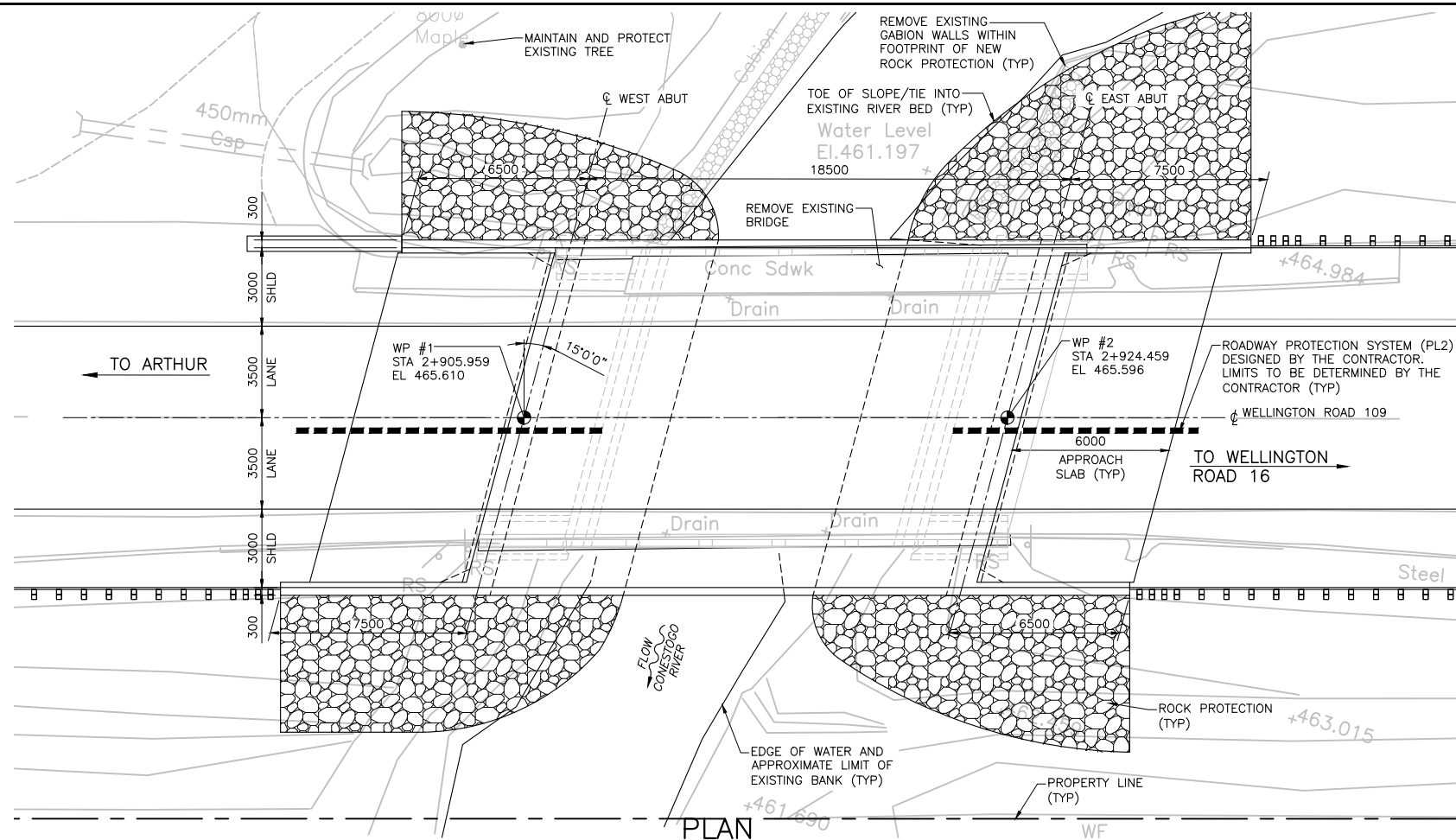
LEGEND:		TC-54	
	WORK ZONE		PROPOSED SIGN
	CONSTRUCTION INGRESS/EGRESS		
	TRAFFIC DIRECTION		

1	ISSUED FOR TENDER	6/2/2025	WVR
NO.	DESCRIPTION	DATE	INITIAL
	REVISIONS		

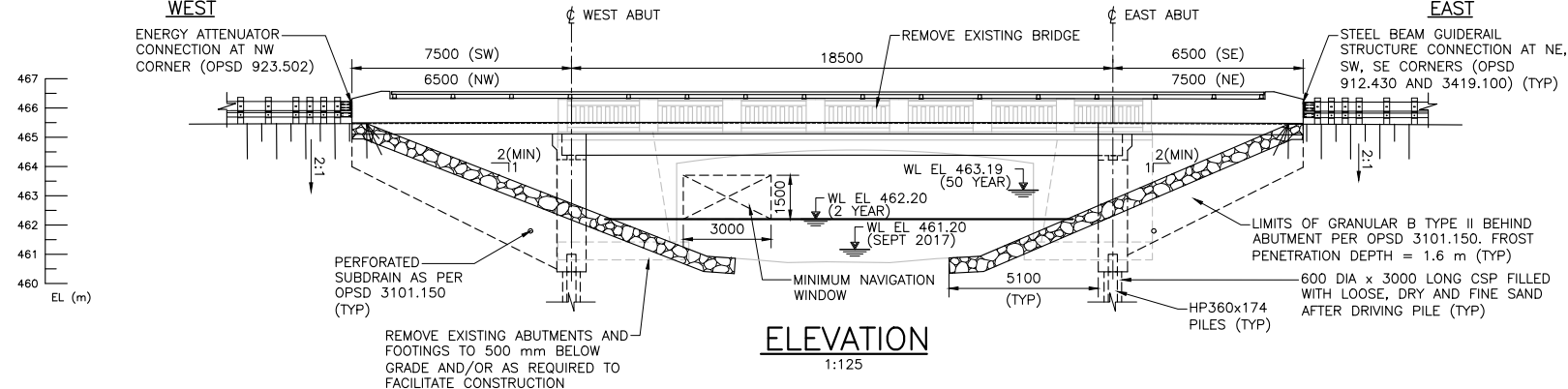
SCALE	AS SHOWN	DESIGNED	HX
DATE	JANUARY, 2025	CHECKED	JM
DRAFTING	OSM		
CHECKED	HX		
FIELD BK.			
BENCH M			

PROJECT		077394
---------	--	--------

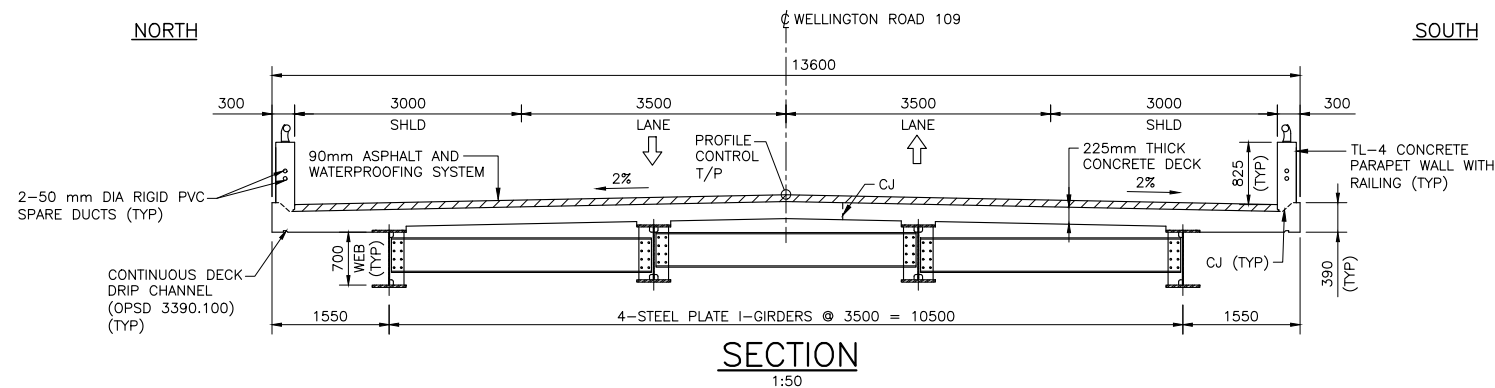
COUNTY OF WELLINGTON		CW2025-020
REPLACEMENT OF CONESTOGO RIVER BRIDGE No. 4		CONTRACT NO.
STRUCTURE No. B109133		DRAWING NO.
TRAFFIC CONTROL PLAN – WINTER SHUTDOWN		TC302



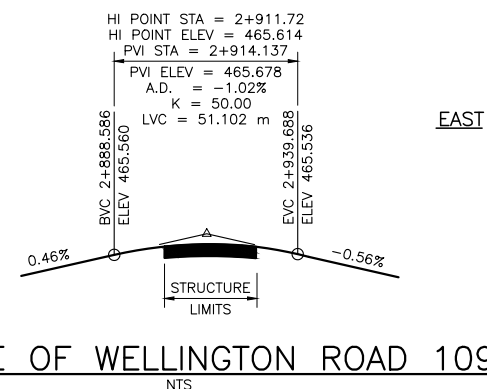
ENERGY ATTENUATOR—
CONNECTION AT NW
CORNER (OPSD 923.502)



1:125



1:50



NTS

T/P - DENOTES TOP OF PAVEMENT
WP - DENOTES WORKING POINT

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.

[illegible]

COUNTY OF WELLINGTON
CONESTOGO RIVER BRIDGE No.10
STRUCTURE No. B109134

GENERAL ARRANGEMENT

CW2025-020

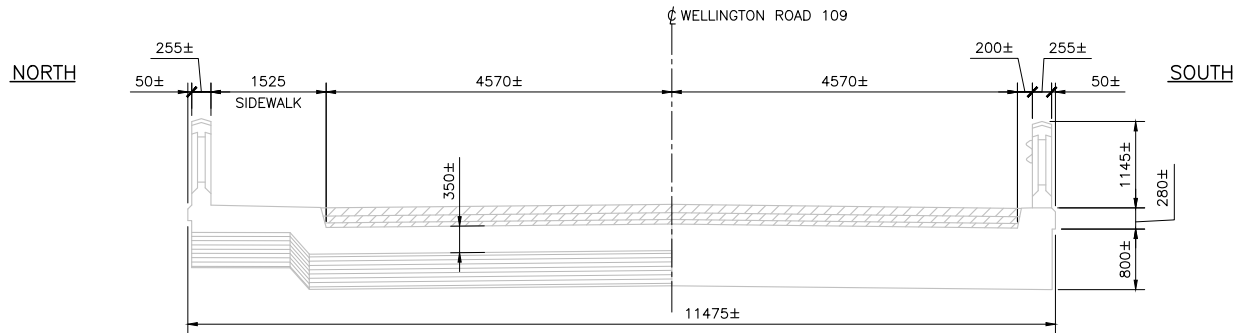
PROJECT NO.

DRAWING NO.

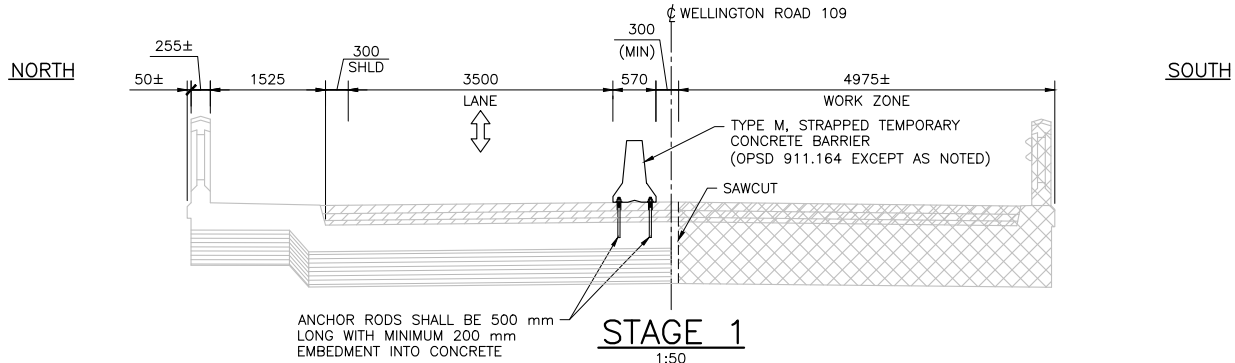
S401



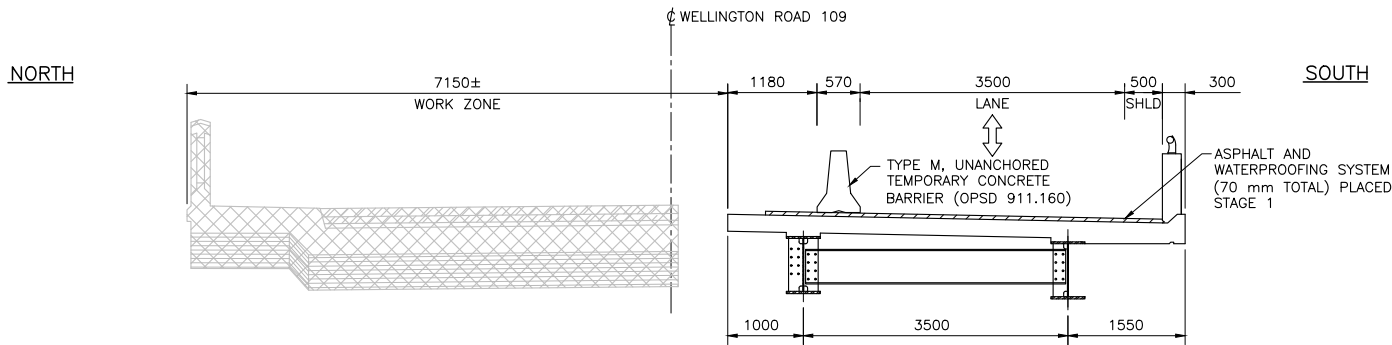
CAD FILE LOCATION AND NAME: c:\pwworking\gfpw01\habdulkadir\gfpw01\habdulkadir\dwg\1794643\077394_304_B109134_02_STAGING.dwg
MODIFIED: 2/3/2025 4:27:36 PM BY: HABDULKADIR
DATE PLOTTED: 2/4/2025 3:43:31 PM BY: HABDULKADIR



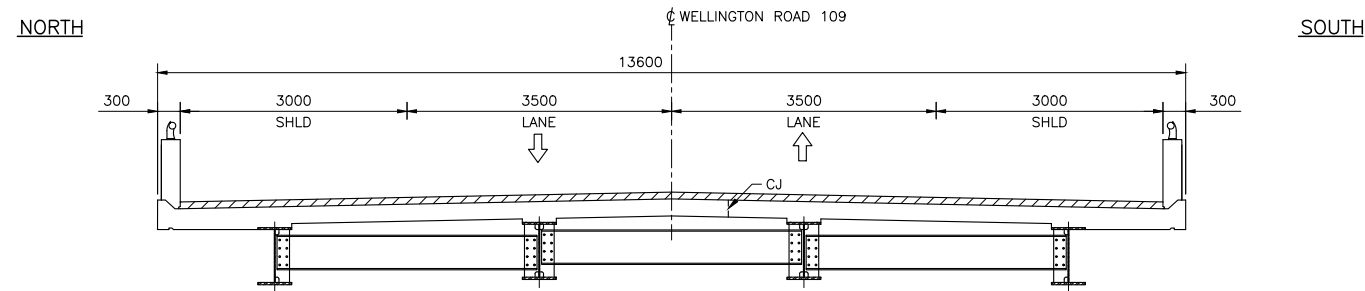
EXISTING
1:50



STAGE 1
1:50



STAGE 2
1:50



FINAL
1:50

LEGEND:

 REMOVALS

NOTES:

1. READ THIS DRAWING IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.
2. FOR TRAFFIC CONTROL DETAILS, SEE TRAFFIC STAGING DRAWINGS.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE SUPPLIED, INSTALLED, MAINTAINED, RELOCATED & REMOVED BY THE CONTRACTOR THROUGHOUT THE STAGES IN ACCORDANCE WITH THE LATEST EDITION OF BOOK 7 (TEMPORARY CONDITIONS) OF THE MTO's ONTARIO TRAFFIC MANUAL.
4. THE CONTRACTOR SHALL COVER ANY EXISTING TRAFFIC CONTROL SIGNS THAT CONFLICT WITH TEMPORARY SIGNAGE AND TRAFFIC CONTROL REQUIRED FOR CONSTRUCTION STAGING.
5. ANY EXISTING TRAFFIC CONTROL SIGNS REMOVED SHALL BE REINSTATED UPON REMOVAL OF THE TEMPORARY TRAFFIC CONTROL DEVICES.
6. TEMPORARY PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL SIGNS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
7. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TEMPORARY MARKINGS SHALL BE REMOVED BY GRINDING.
8. ALL PAVEMENT MARKING (TEMPORARY AND PERMANENT) TO BE SUPPLIED, INSTALLED, RELOCATED AND/OR REMOVED BY THE CONTRACTOR.
9. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT.

PROPOSED SEQUENCE OF WORK:

STAGE 1 – CONSTRUCTION ON THE SOUTH SIDE


1. PROVIDE SEDIMENT CONTROL AND CONTAINMENT MEASURES AROUND WORK SITE, AND INSTALL TEMPORARY COFFERDAMS.
2. SET UP STAGE 1 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109.
3. CARRY OUT STAGE 1 REMOVALS AND NEW CONSTRUCTION.
4. PLACE STAGE 1 WATERPROOFING AND BASE COURSE ASPHALT.

STAGE 2 – CONSTRUCTION ON THE NORTH SIDE

5. SET UP STAGE 2 FOR CONTROL OF TRAFFIC ON WELLINGTON ROAD 109.
6. CARRY OUT STAGE 2 REMOVALS AND NEW CONSTRUCTION.
7. PLACE STAGE 2 WATERPROOFING AND BASE COURSE ASPHALT.
8. MILL BASE COURSE ASPHALT AND PLACE SURFACE COURSE ASPHALT (FULL WIDTH) AND FINAL PAVEMENT MARKINGS.

APPLICABLE STANDARD DRAWINGS:

OPSD – 0911.160 GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION–TEMPORARY 1
OPSD – 0911.164 GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION–TEMPORARY RESTRAINT SYSTEM STRAPPED TO CONCRETE WITH ASPHALT SURFACE

 METRIC
ALL DIMENSIONS SHOWN HERE ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.

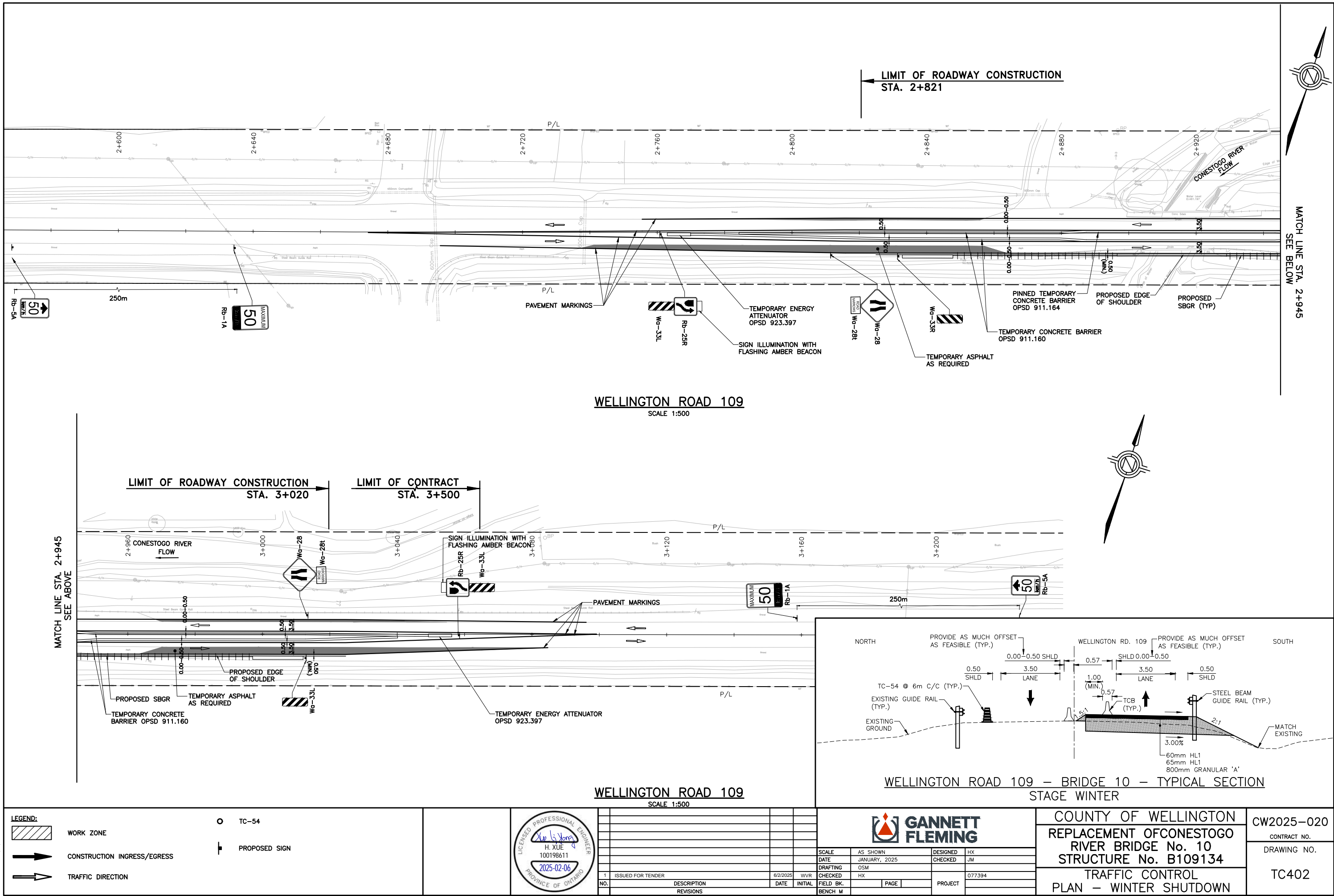


SCALE	AS SHOWN	DESIGNED	AJW/XYL
DATE	FEB/2025	CHECKED	WVR
DRAFTING	SC	DESIGN CODE	CAN/CSA S6-19
1. ISSUED FOR TENDER	6/2/2025	WVR	077394
NO.	DESCRIPTION	DATE	INITIAL
	REVISIONS		

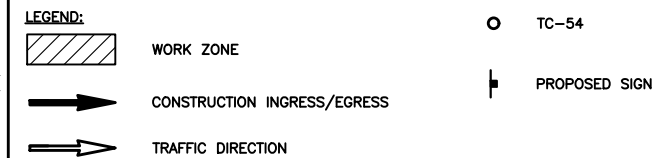
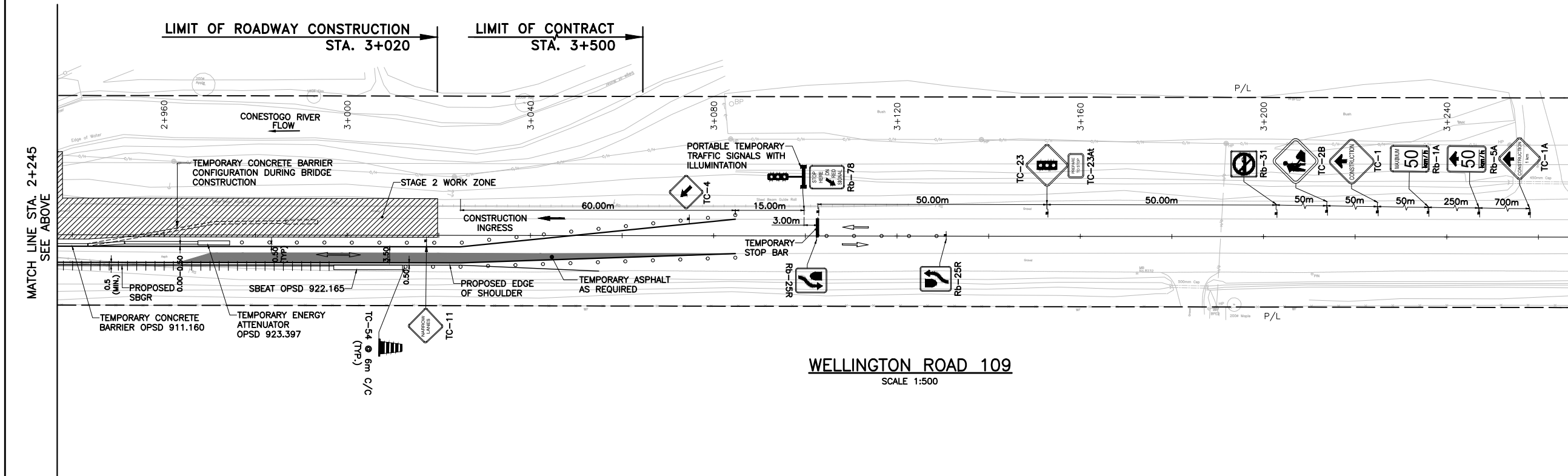
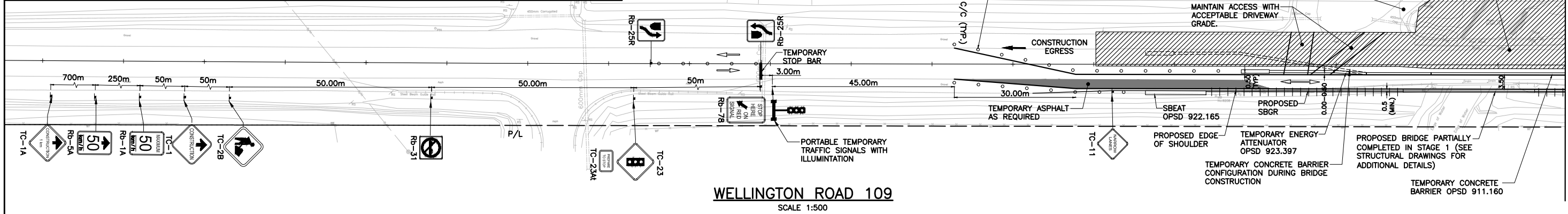
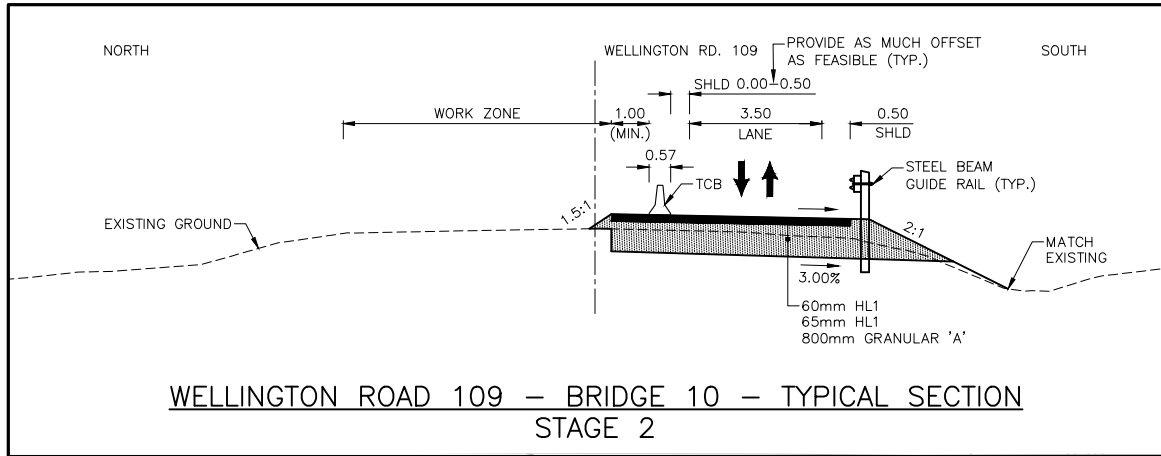
COUNTY OF WELLINGTON
CONESTOGO RIVER BRIDGE No.10
STRUCTURE No. B109134
CONSTRUCTION STAGING

CW2025-020
PROJECT NO.
DRAWING NO.
S402

CAD FILE LOCATION AND NAME: C:\pwworking\gfpw01\hxe\gnet.com\d1811256\077394 - Wellington 109 Bridge Replacements - Stage Winter - Sheet.dwg
MODIFIED: 1/27/2025 11:44:16 AM BY: OSOTOMARTIN
DATE PLOTTED: 2/6/2025 1:03:20 PM BY: XUE, HANK



CAD FILE LOCATION AND NAME: C:\pwworking\gfpw01\hxe\gnet\com\1811256\077394 - Wellington 109 Bridge Replacements - Stage 2 - Sheet.dwg
MODIFIED: 2/3/2025 1:57:06 PM BY: HALKADHALLY
DATE PLOTTED: 2/6/2025 12:49:33 PM BY: XUE, HANK



DISCLAIMER:
THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--