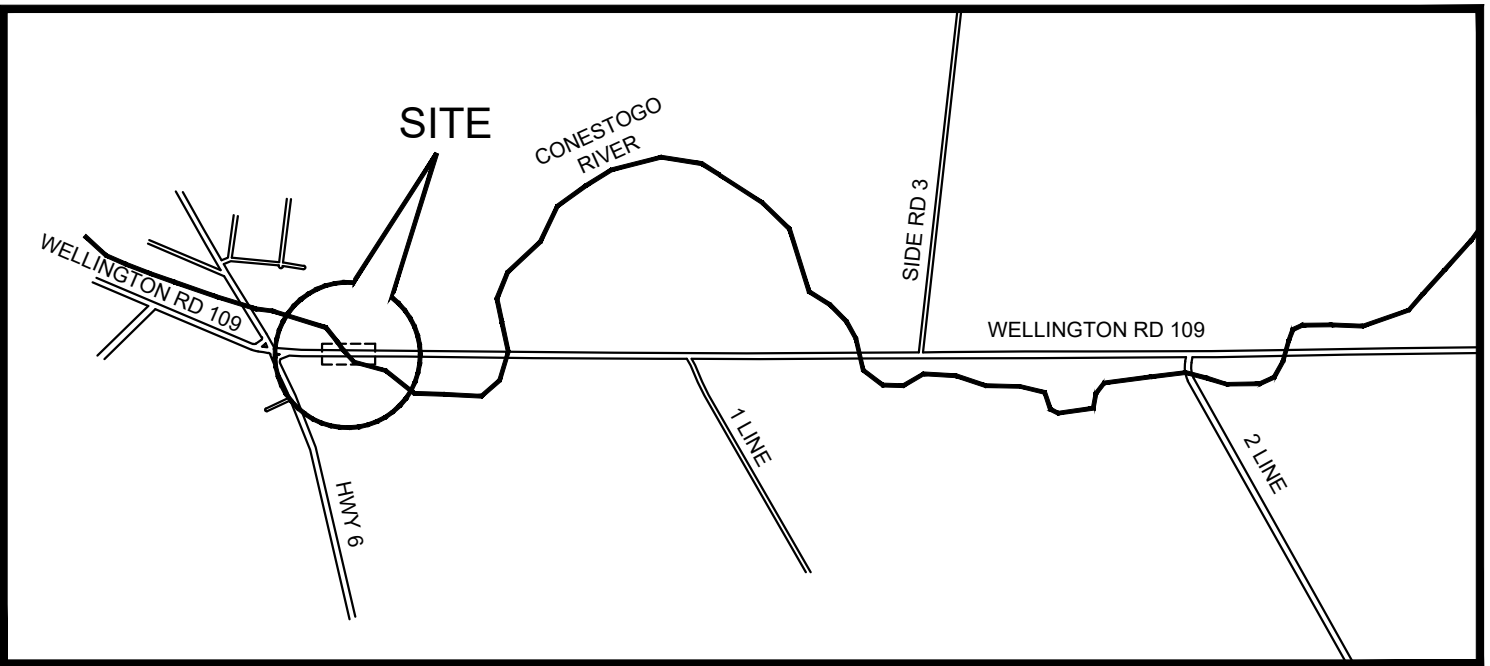
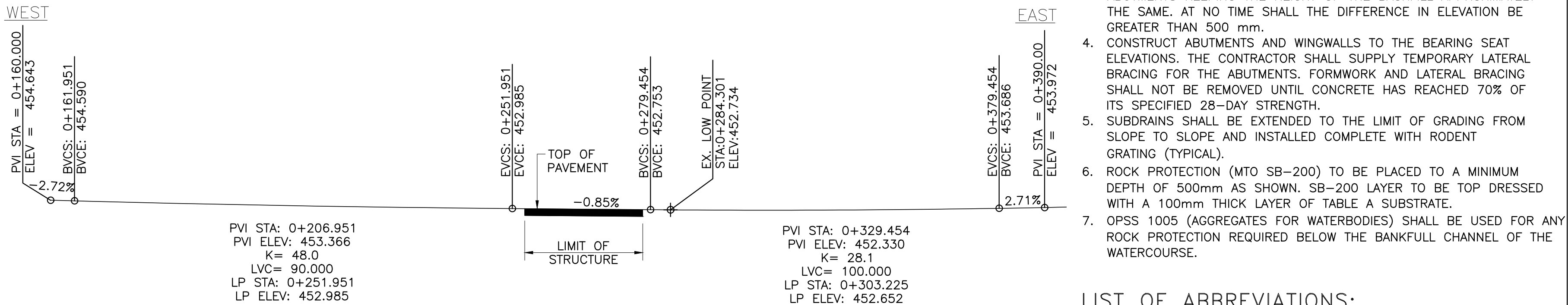
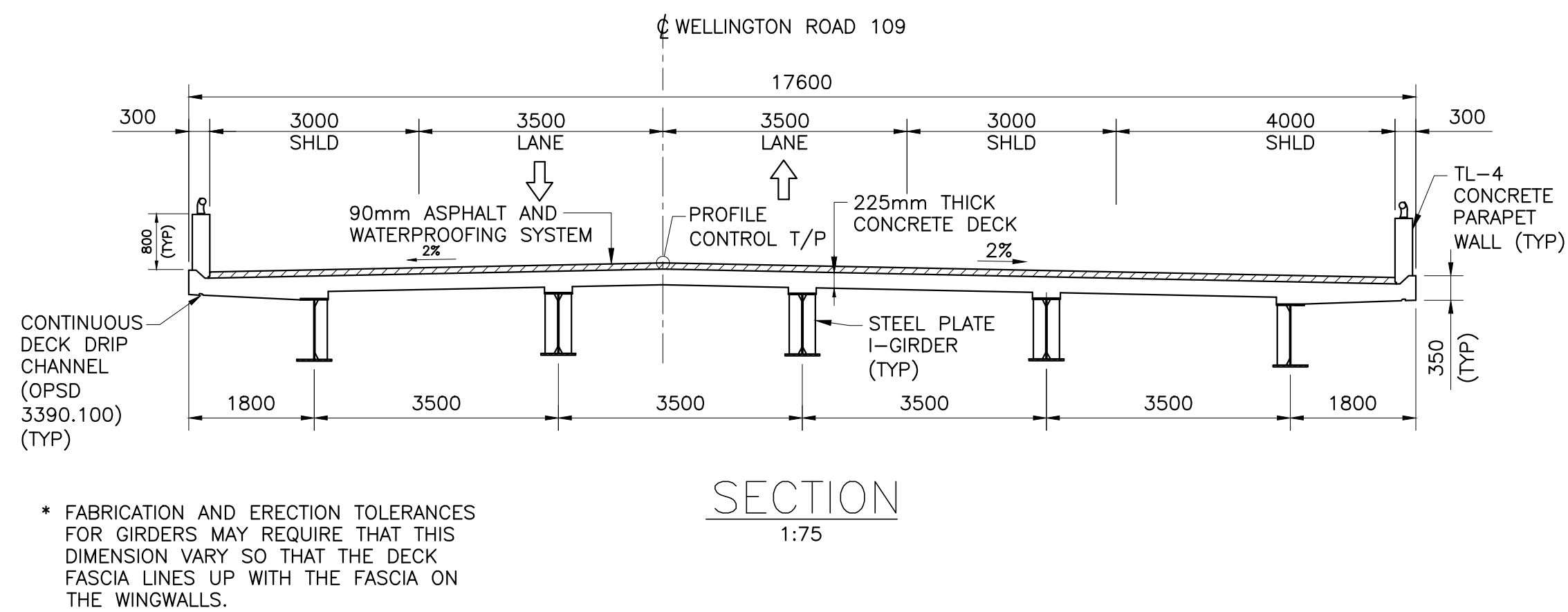
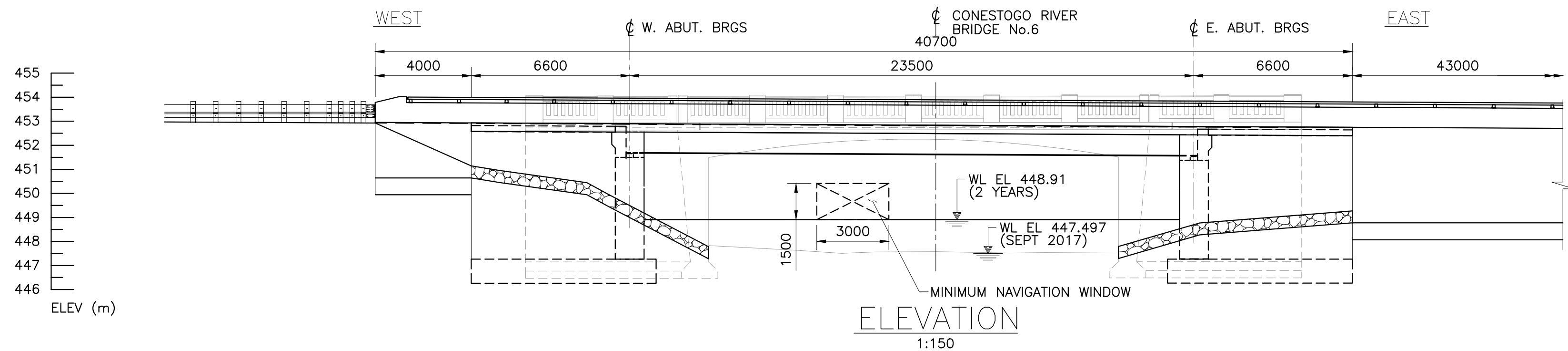
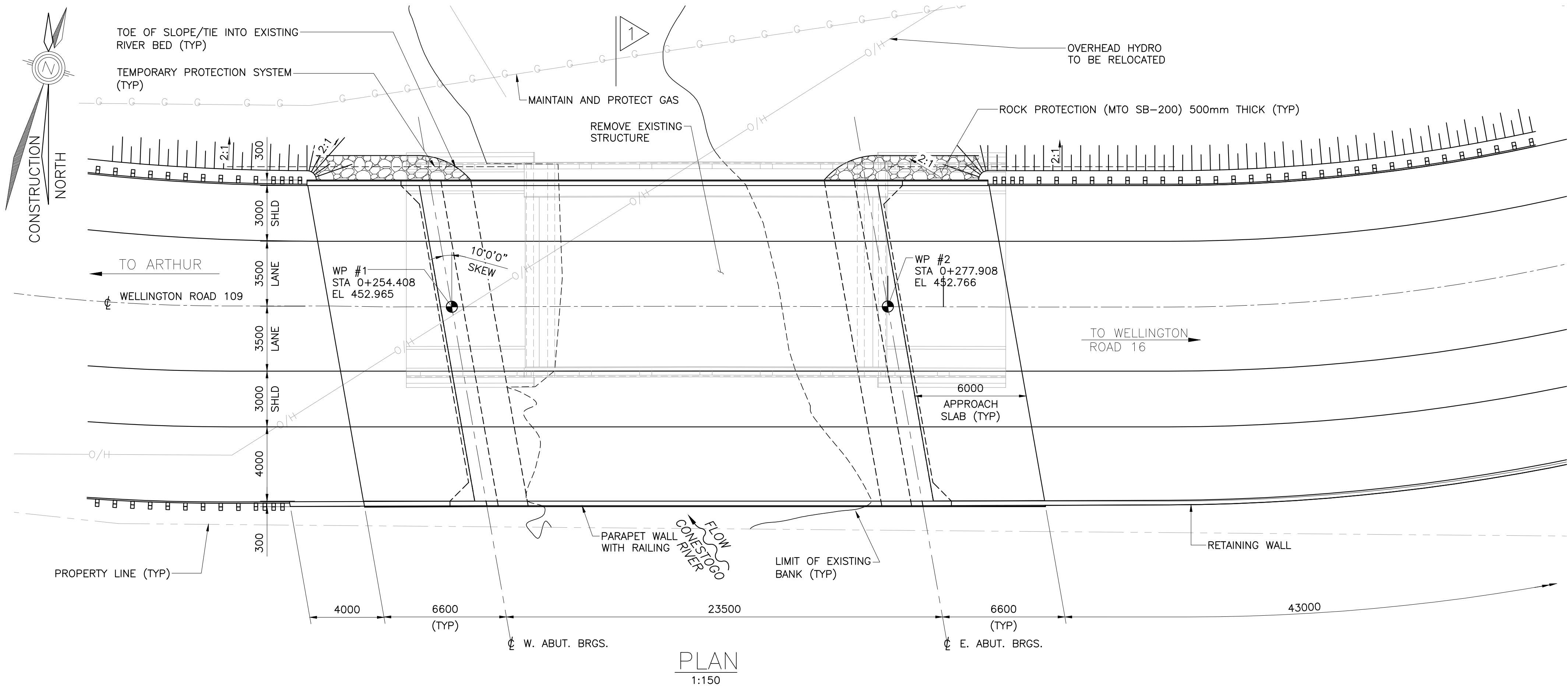


**APPENDIX L**

# General Arrangements

CAD FILE LOCATION AND NAME: S:\2017\17M-01271-02\301 B109132\17M-01271-02-301-001GA.dwg  
MODIFIED: 1/19/2024 5:18:33 PM BY: AWADC  
DATE PLOTTED: 2/2/2024 9:44:50 AM BY: AWADC



KEY PLAN  
N.T.S.

GENERAL NOTES:

DESIGN CODE:

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

CLASS OF CONCRETE:

CLASS C-1 PER CSA 23.1

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.
- GLASS FIBRE REINFORCED POLYMER REINFORCING BARS SHALL BE GRADE I, GRADE II OR GRADE III AS SPECIFIED IN THE CONTRACT DRAWINGS. THE NOMINAL DIAMETER, TENSILE MODULUS OF ELASTICITY AND GUARANTEED MINIMUM TENSILE STRENGTH SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- BAR MARKS WITH THE PREFIX G DENOTE GRADE III GLASS FIBRE REINFORCED POLYMER BARS (E=60GPa).
- 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.
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- ROCK PROTECTION (MTO SB-200) TO BE PLACED TO A MINIMUM DEPTH OF 500mm AS SHOWN. SB-200 LAYER TO BE TOP DRESSED WITH A 100mm THICK LAYER OF TABLE A SUBSTRATE.
- OPSS 1005 (AGGREGATES FOR WATERBODIES) SHALL BE USED FOR ANY ROCK PROTECTION REQUIRED BELOW THE BANKFULL CHANNEL OF THE WATERCOURSE.

LIST OF ABBREVIATIONS:

T/P - DENOTES TOP OF PAVEMENT  
WL - DENOTES WATER LEVEL  
WP - DENOTES WORKING POINT

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.

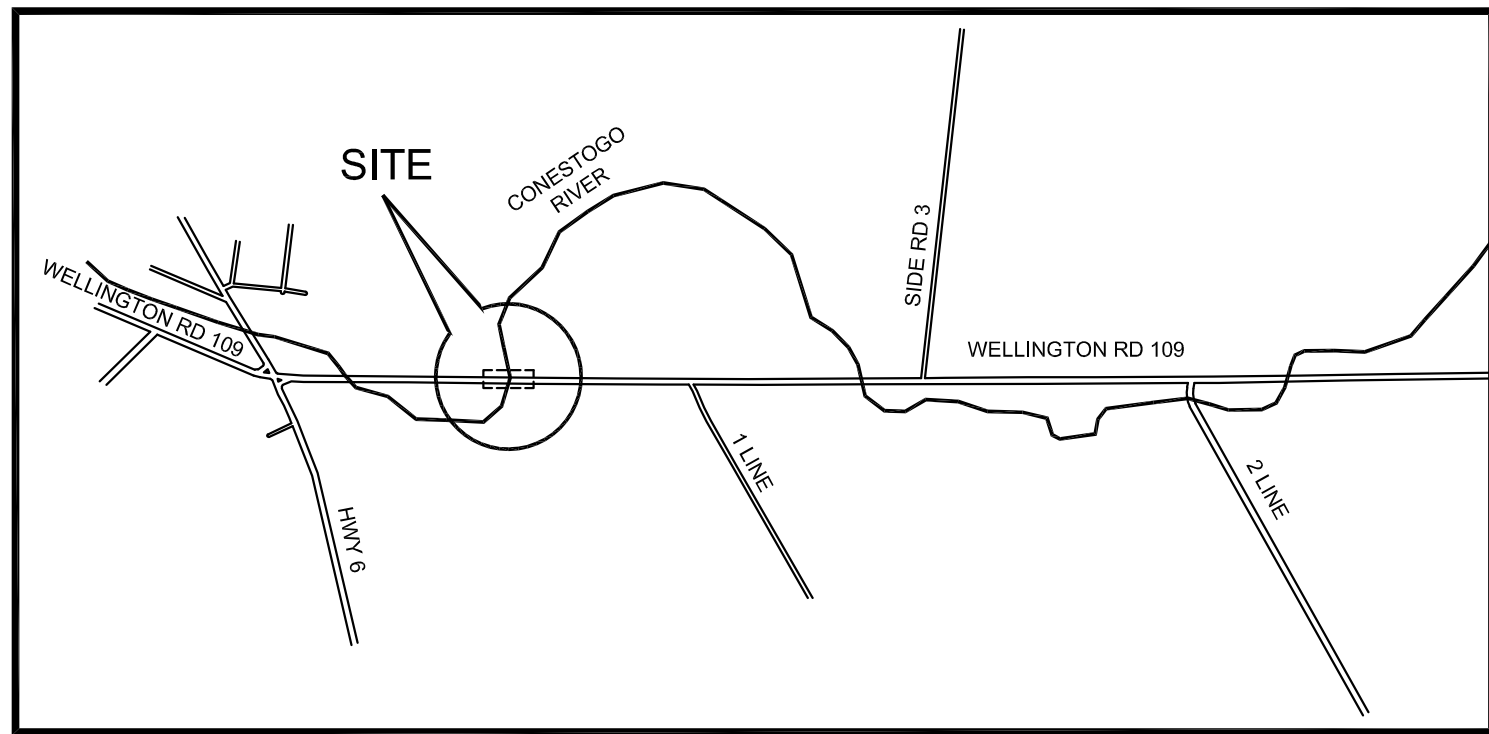
NO.	DESCRIPTION	DATE	INITIAL
	REVISIONS		

SCALE		AS SHOWN		DESIGNED		WVR	
DATE		OCT/2020		CHECKED		YY	
DRAFTING		CA					
CHECKED		WVR					
FIELD BK.		PAGE					
BENCH M							

COUNTY OF WELLINGTON
CONESTOGO RIVER BRIDGE No.6
STRUCTURE No. B109132
GENERAL ARRANGEMENT

PROJECT NO.

DRAWING NO.



N.T.S

## DESIGN CODE:

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

CLASS C-1 PER CSA 23.1

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BOTTOM	40 ± 10	mm
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**LIST OF ABBREVIATIONS**

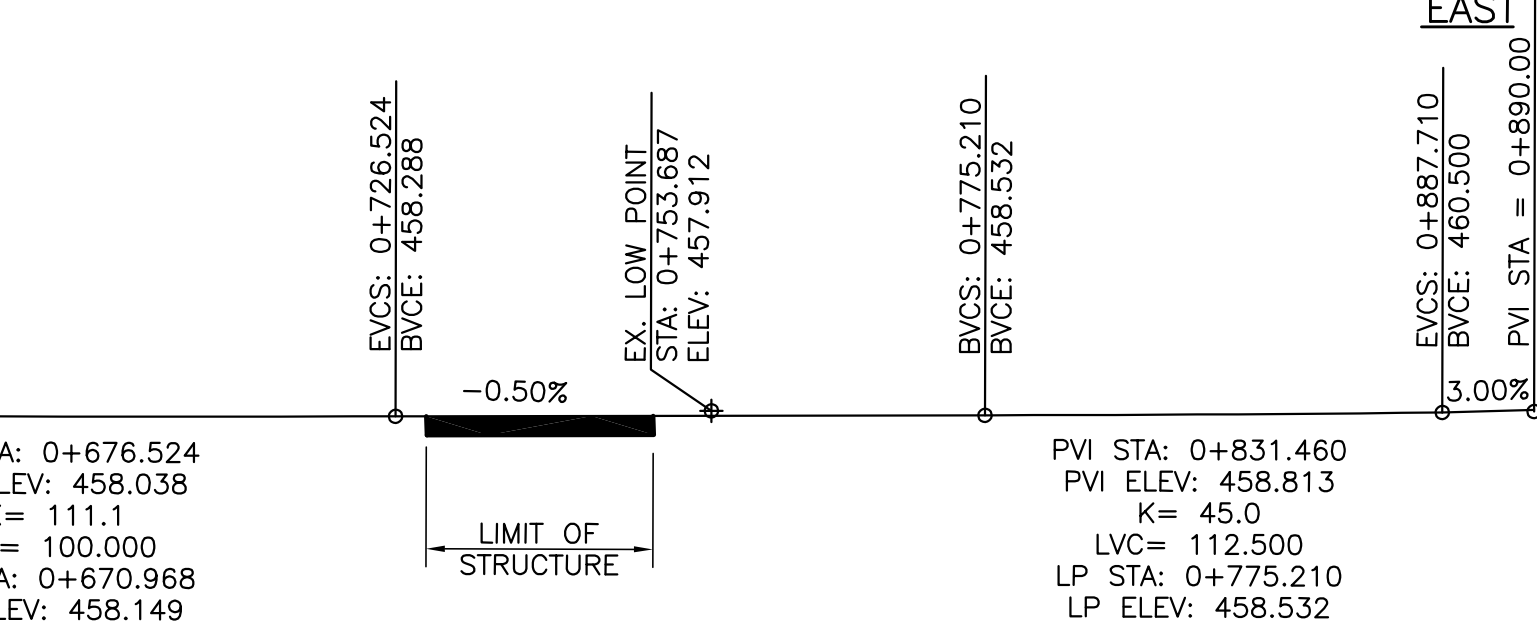
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WP - DENOTES WORKING POINT

 METRIC  
ALL DIMENSIONS SHOWN HERE ARE IN  
MILLIMETRES UNLESS OTHERWISE NOTED

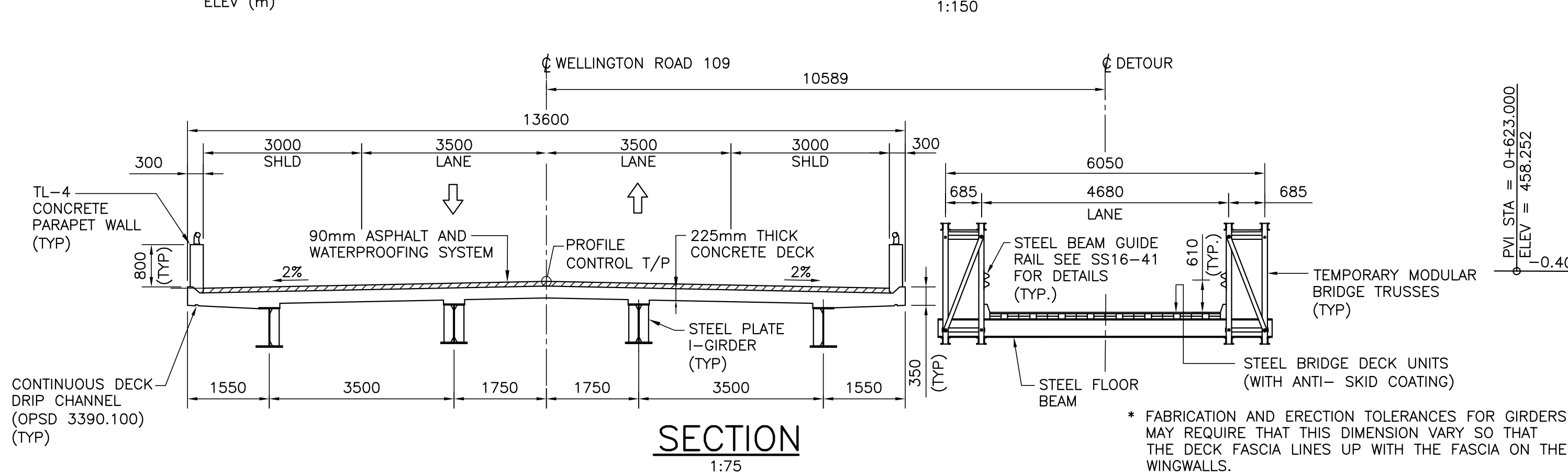
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OPSD	- 0219.180	STRAW BALE FLOW CHECK DAM
OPSD	- 0219.240	DEWATERING TRAP
OPSD	- 0219.280	TURBIDITY CURTAIN
OPSD	- 0219.261	TURBIDITY CURTAIN, SEAM DETAIL
OPSD	- 0912.430	GUIDE RAIL SYSTEM, STEEL BEAM STRUCTURE CONNECTION
OPSD	- 3101.150	WALLS, ABUTMENT, 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	DRAINAGE CHANNEL
OPSD	- 3419.100	BARRIERS AND RAILINGS STEEL GUIDE RAIL AND CHANNEL ANCHORAGE
OPSD	- 3950.100	CONCRETE EXPANSION AND CONSTRUCTION JOINT ON STRUCTURE

## LIST OF DRAWINGS

1	GENERAL ARRANGEMENT
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N.T.S.



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.

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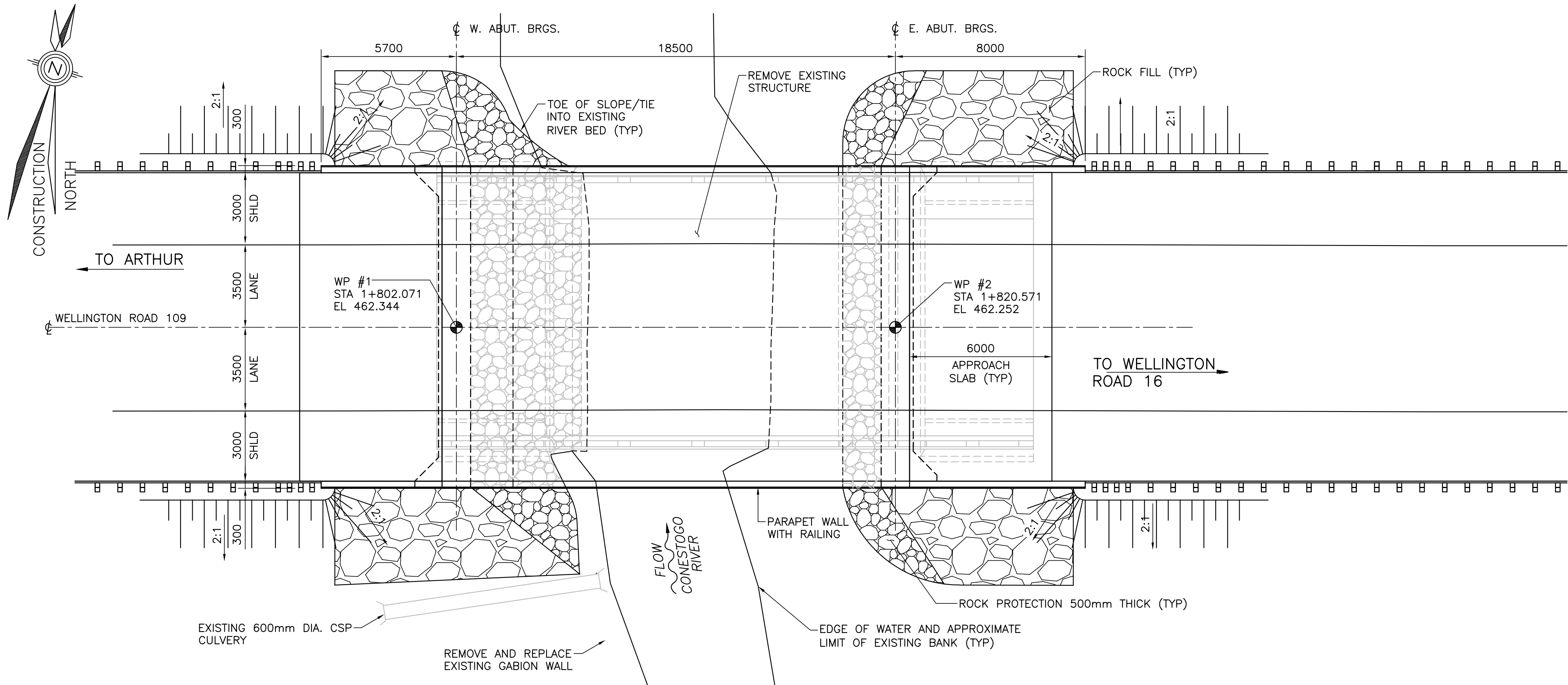
COUNTY OF WELLINGTON  
 CONESTOGO RIVER BRIDGE No.5  
 STRUCTURE No. C109123

## GENERAL ARRANGEMENT

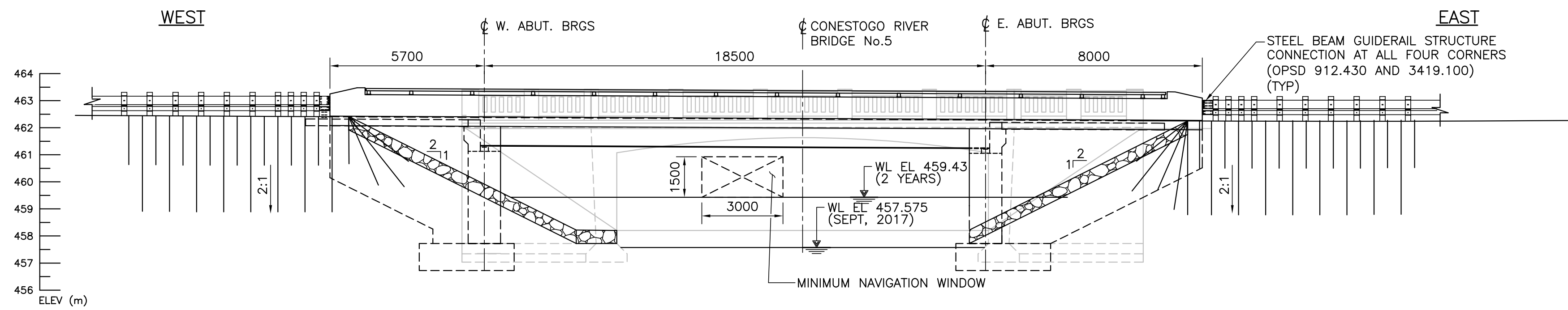
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DRAWING NO. \_\_\_\_\_

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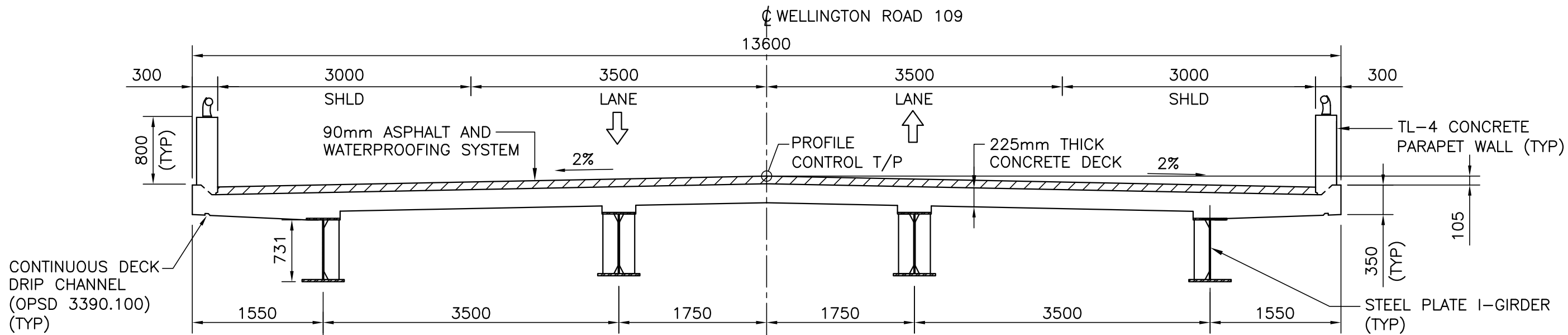
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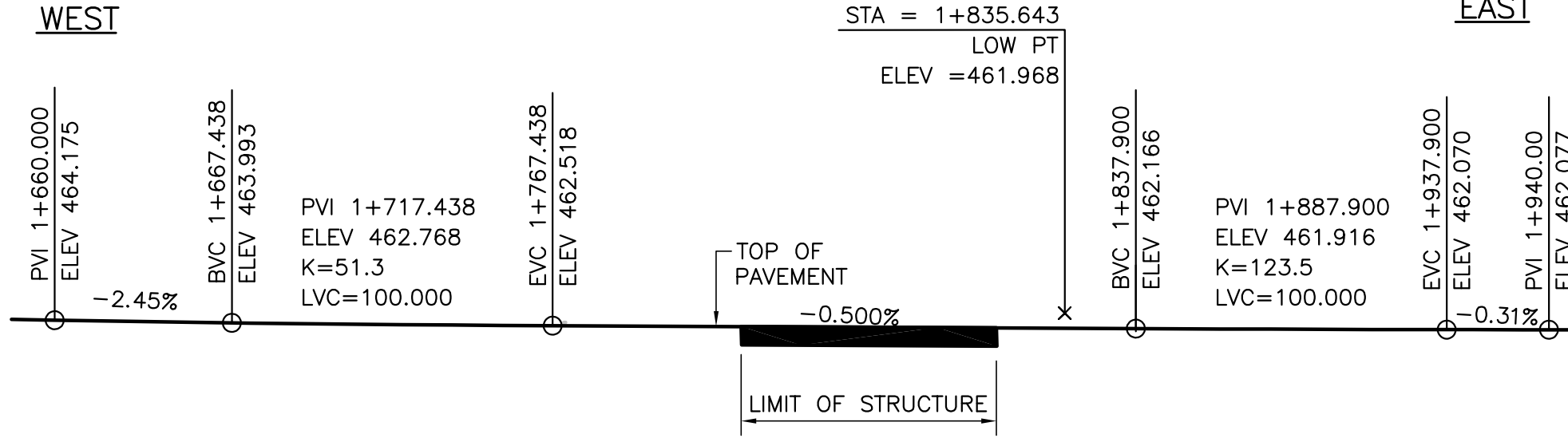
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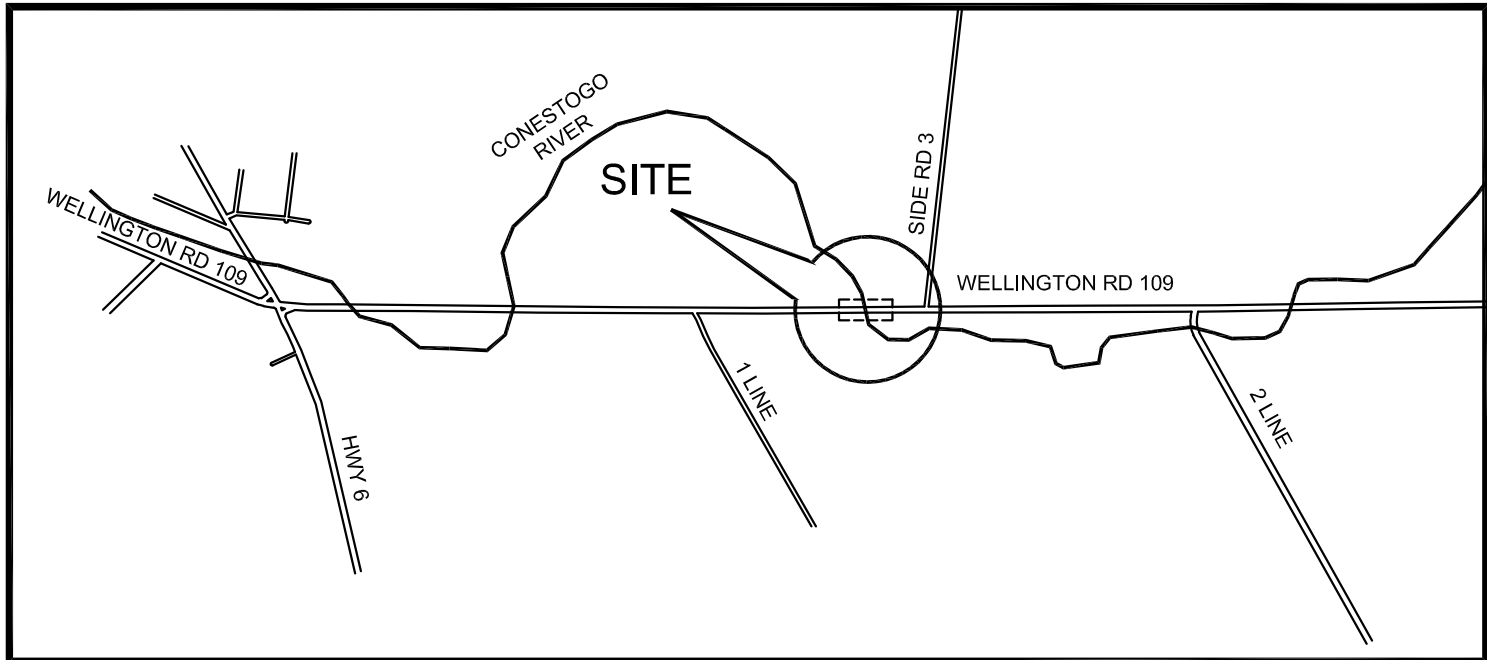
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SECTION  
1:50



PROFILE OF COUNTY RD 109  
N.T.S.



KEY PLAN  
N.T.S.

GENERAL NOTES:

DESIGN CODE:

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

CLASS OF CONCRETE:

CLASS C-1 PER CSA 23.1

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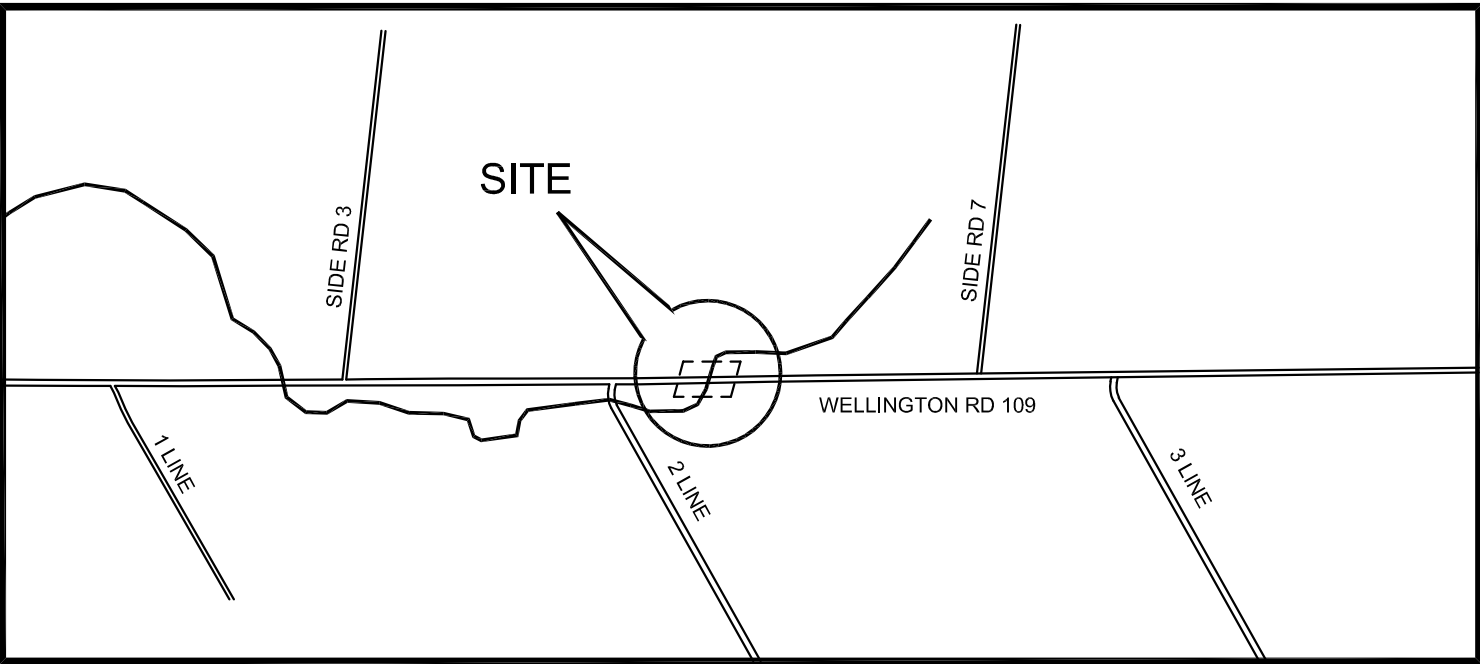
METRIC  
ALL DIMENSIONS SHOWN HERE ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

CAD FILE LOCATION AND NAME: S:\2017\17M-01271-02\303 B109133\17M-01271-02-303-001GA (with updated elevation for plan only).dwg  
MODIFIED: 1/10/2024 2:40:53 PM BY: AWAC  
DATE PLOTTED: 2/12/2024 9:46:49 AM BY: AWAC

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.

wsp			
SCALE	AS SHOWN	DESIGNED	WVR
DATE	NOV/2022	CHECKED	YY
DRAFTING	RYR		
CHECKED	WVR		
FIELD BK.	PAGE	PROJECT	
BENCH M			
NO.	DESCRIPTION	DATE	INITIAL
	REVISIONS		

COUNTY OF WELLINGTON		PROJECT NO.
CONESTOGO RIVER BRIDGE No.4		DRAWING NO.
STRUCTURE No. B109133		1
GENERAL ARRANGEMENT		

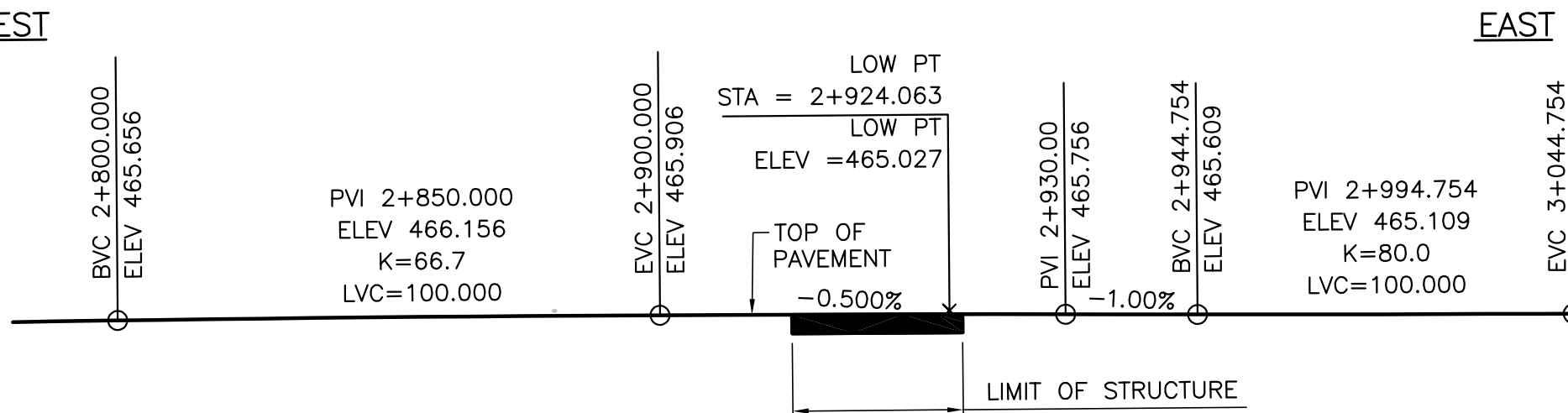
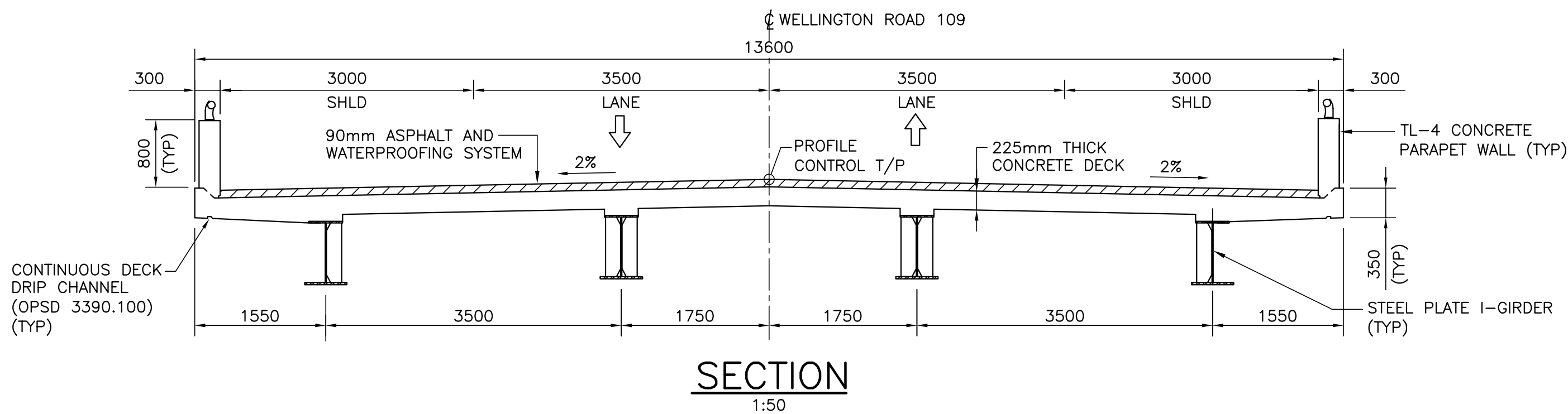


1. REINFORCING STEEL SHALL BE GRADE 400W.
2. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BARS SHALL BE CLASS B.
3. STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500MPa, UNLESS OTHERWISE SPECIFIED.
4. BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
5. GLASS FIBRE REINFORCED POLYMER REINFORCING BARS SHALL BE GRADE I, GRADE II OR GRADE III AS SPECIFIED IN THE CONTRACT DRAWINGS, THE NOMINAL DIAMETER, TENSILE MODULUS OF ELASTICITY AND GUARANTEED MINIMUM TENSILE STRENGTH SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
6. BAR MARKS WITH THE PREFIX G DENOTE GRADE III GLASS FIBRE REINFORCED POLYMER BARS ( $E=60GPa$ ).
7. 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.

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. BACKFILL SHALL NOT BE PLACED BEHIND THE ABUTMENTS UNTIL THE DECK SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH.
2. 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.
3. 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.
4. SUBDRAINS SHALL BE EXTENDED TO THE LIMIT OF GRADING FROM SLOPE TO SLOPE AND INSTALLED COMPLETE WITH RODENT GRATING (TYPICAL).
5. ROCK PROTECTION (MTO SB-200) TO BE PLACED TO A MINIMUM DEPTH OF 500mm AS SHOWN. SB-200 LAYER TO BE TOP DRESSED WITH A 100mm THICK LAYER OF TABLE A SUBSTRATE.
6. OPSS 1005 (AGGREGATES FOR WATERBODIES) SHALL BE USED FOR A ROCK PROTECTION REQUIRED BELOW THE BANKFULL CHANNEL OF THE WATERCOURSE.

T/P - DENOTES TOP OF PAVEMENT  
WL - DENOTES WATER LEVEL  
WP - DENOTES WORKING POINT

 METRIC  
ALL DIMENSIONS SHOWN HERE ARE IN  
MILLIMETRES UNLESS OTHERWISE NOTED



# PROFILE OF COUNTY RD 109

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.

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

PROJECT NO.  
DRAWING NO.  
1

CAD FILE LOCATION AND NAME: S:\2017\17M-01271-02\304 B109134\S17M-01271-02-304-001GA (updated elevation for plan only).dwg  
 MODIFIED: 1/10/2024 2:41:42 PM BY: AWADC  
 DATE PLOTTED: 2/2/2024 9:49:20 AM BY: AWADC