

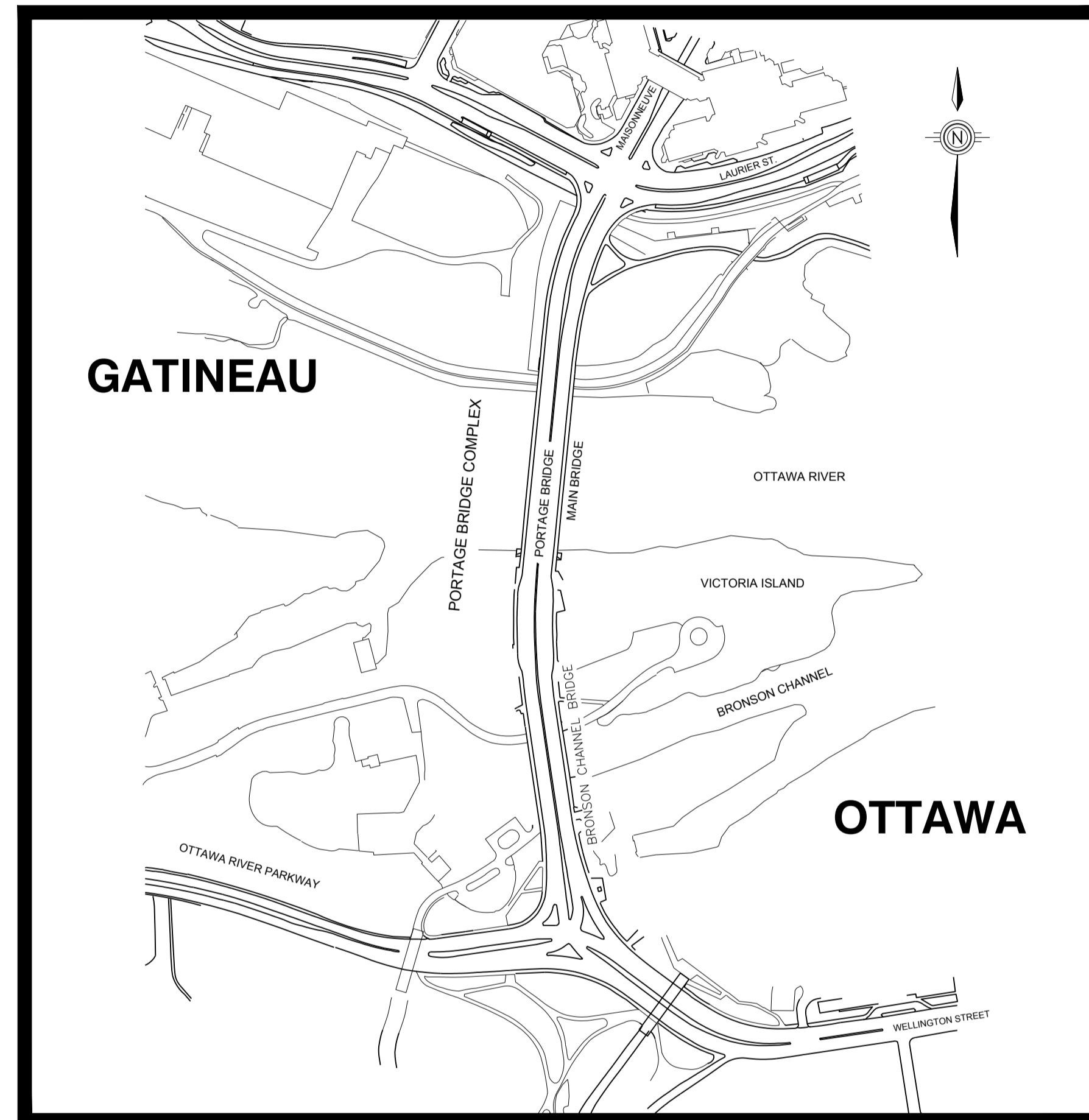
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WSP PROJECT NUMBER: 141-20906-16

LIST OF DRAWINGS

- 00 COVER SHEET
- 01 OVERALL SITE PLAN
- 02 REMOVALS PLAN - NORTH HALF
- 03 REMOVALS PLAN - SOUTH HALF
- 04 SECTIONS - REMOVALS
- 05 SECTION AND DETAILS - REMOVALS
- 06 RECONSTRUCTION PLAN - NORTH HALF
- 07 RECONSTRUCTION PLAN - SOUTH HALF
- 08 SECTIONS - RECONSTRUCTION
- 09 SECTION AND DETAILS - RECONSTRUCTION
- 10 MAIN BRIDGE APPROACH SLABS
- 11 EXPANSION JOINT REMOVALS AND REPAIRS
- 12 PAVEMENT MARKING
- 13 UTILITY DUCTS
- 14 SUGGESTED STAGING - STAGE 1 - PLAN 1
- 15 SUGGESTED STAGING - STAGE 1 - PLAN 2
- 16 SUGGESTED STAGING - STAGE 1 - PLAN 3
- 17 SUGGESTED STAGING - STAGE 1 - TYPICAL SECTIONS
- 18 SUGGESTED STAGING - STAGE 2 - PLAN 1
- 19 SUGGESTED STAGING - STAGE 2 - PLAN 2
- 20 SUGGESTED STAGING - STAGE 2 - PLAN 3
- 21 SUGGESTED STAGING - STAGE 2 - TYPICAL SECTIONS
- 22 SUGGESTED STAGING - STAGE 3 - SOUTHBOUND
- 23 SUGGESTED STAGING - STAGE 3 - NORTHBOUND

PORTAGE BRIDGE SURFACE REPAIRS

OTTAWA - GATINEAU
CONTRACT NO. 175

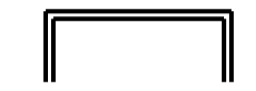
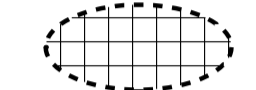


SITE PLAN

NOTES:

1. THE STORAGE AREA ON THE WEST OF THE MILL STREET BREW PUB IS ON CONTAMINATED SOILS. THERE IS NO EXCAVATION ALLOWED IN THIS AREA.
2. GEOTEXTILE AND GRANULAR SURFACE SHALL BE INSTALLED ON THE STORAGE AREA PRIOR TO THE USE OF THE AREA.
3. ALL GRASSY AREAS USED FOR STORAGE AND CONSTRUCTION DEPOT TO BE REINSTATED WITH TOP SOIL AND SOD THAT SHALL BE WATERED, MOWED AND MAINTAINED UNTIL FULLY ESTABLISHED.
4. OTHER DISTURBED SURFACES TO BE REINSTATED TO ORIGINAL OR BETTER CONDITION.
5. STORAGE AND CONSTRUCTION DEPOT TO BE FENCED WITH MODULAR FENCING OR EQUIVALENT.

LEGENDS:

-  WORK AREA
-  CONSTRUCTION DEPOT



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 Direction de l'aménagement de la capitale et gestion de l'immobilier

Design and Construction Division
 Division design et construction

director - Claude Robert - directeur

consultant expert-conseil



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**PORTAGE BRIDGE
SURFACE REPAIRS**

Drawing Title/Titre du dessin

SITE PLAN

approved by / approuvé par	Z.F.W.
designed by / conçu par	H.L.
drawn by / dessiné par	H.L.
date	JULY 2018
scale / échelle	AS

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PORTAGE BRIDGE SURFACE REPAIRS

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REMOVALS PLAN - NORTH HALF

approved by
 approuvé par

Z.F.W.

designed by
 conçu par

H.L.

drawn by
 dessiné par

H.L.

date

JULY 2018

scale
 échelle

AS

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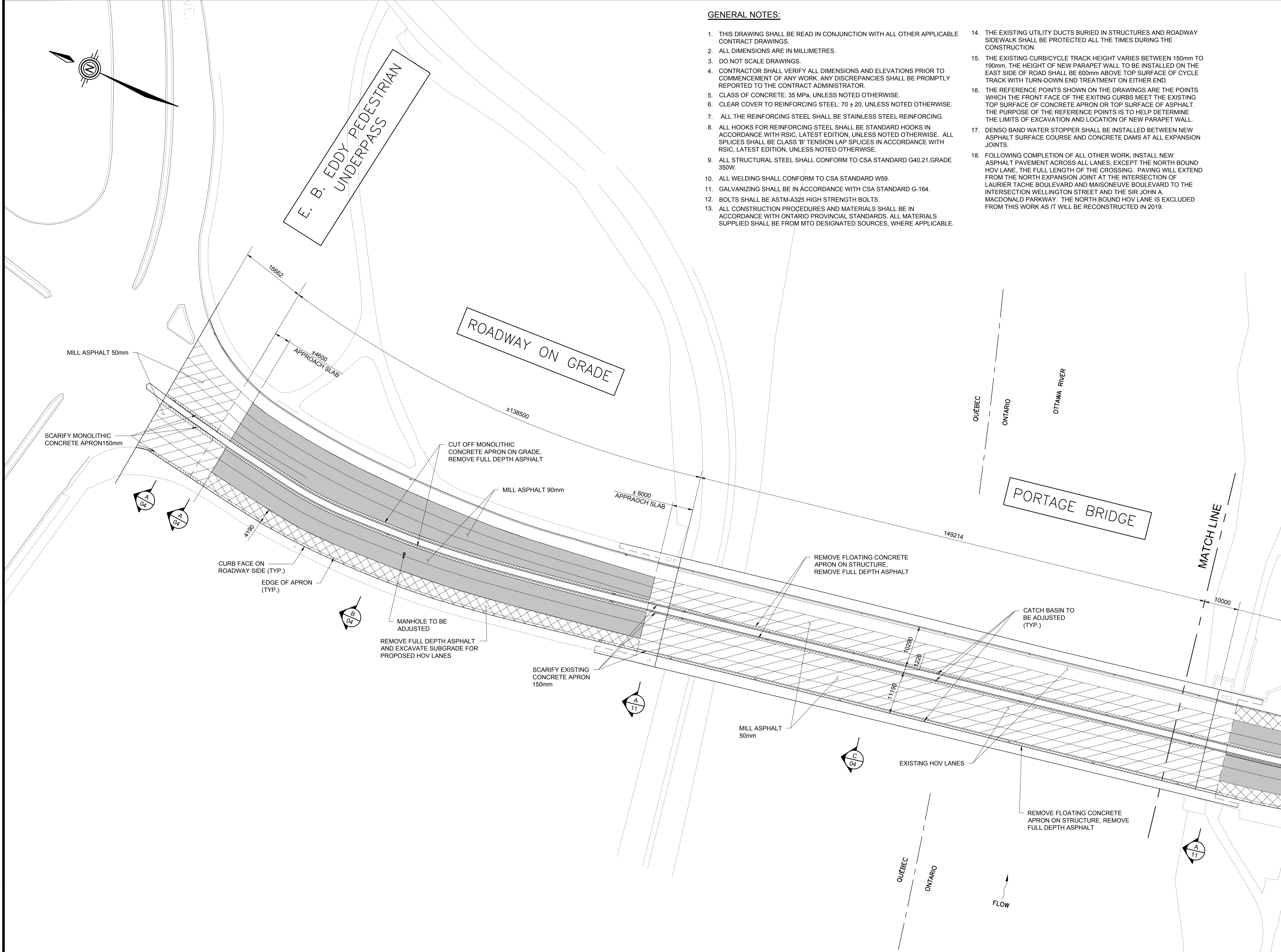
175

sheet no.
 no. de la feuille

02

GENERAL NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS.
- ALL DIMENSIONS ARE IN MILLIMETRES.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE CONTRACT ADMINISTRATOR.
- CLASS OF CONCRETE: 35 MPa, UNLESS NOTED OTHERWISE.
- CLEAR COVER TO REINFORCING STEEL: 70 ± 20, UNLESS NOTED OTHERWISE.
- ALL THE REINFORCING STEEL SHALL BE STAINLESS STEEL REINFORCING.
- ALL HOOKS FOR REINFORCING STEEL SHALL BE STANDARD HOOKS IN ACCORDANCE WITH RSIC, LATEST EDITION, UNLESS NOTED OTHERWISE. ALL SPLICES SHALL BE CLASS 'B' TENSION LAP SPLICES IN ACCORDANCE WITH RSIC, LATEST EDITION, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL SHALL CONFORM TO CSA STANDARD G40.21, GRADE 350W.
- ALL WELDING SHALL CONFORM TO CSA STANDARD W59.
- GALVANIZING SHALL BE IN ACCORDANCE WITH CSA STANDARD G-164.
- BOLTS SHALL BE ASTM-A325 HIGH STRENGTH BOLTS.
- ALL CONSTRUCTION PROCEDURES AND MATERIALS SHALL BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARDS. ALL MATERIALS SUPPLIED SHALL BE FROM MTO DESIGNATED SOURCES, WHERE APPLICABLE.
- THE EXISTING UTILITY DUCTS BURIED IN STRUCTURES AND ROADWAY SIDEWALK SHALL BE PROTECTED ALL THE TIMES DURING THE CONSTRUCTION.
- THE EXISTING CURB/CYCLE TRACK HEIGHT VARIES BETWEEN 150mm TO 190mm. THE HEIGHT OF NEW PARAPET WALL TO BE INSTALLED ON THE EAST SIDE OF ROAD SHALL BE 600mm ABOVE TOP SURFACE OF CYCLE TRACK WITH TURN-DOWN END TREATMENT ON EITHER END.
- THE REFERENCE POINTS SHOWN ON THE DRAWINGS ARE THE POINTS WHICH THE FRONT FACE OF THE EXISTING CURBS MEET THE EXISTING TOP SURFACE OF CONCRETE APRON OR TOP SURFACE OF ASPHALT. THE PURPOSE OF THE REFERENCE POINTS IS TO HELP DETERMINE THE LIMITS OF EXCAVATION AND LOCATION OF NEW PARAPET WALL.
- DENSO BAND WATER STOPPER SHALL BE INSTALLED BETWEEN NEW ASPHALT SURFACE COURSE AND CONCRETE DAMS AT ALL EXPANSION JOINTS.
- FOLLOWING COMPLETION OF ALL OTHER WORK, INSTALL NEW ASPHALT PAVEMENT ACROSS ALL LANES. EXCEPT THE NORTH BOUND HOV LANE. THE FULL LENGTH OF THE CROSSING. PAVING WILL EXTEND FROM THE NORTH EXPANSION JOINT AT THE INTERSECTION OF LAURIER TACHE BOULEVARD AND MAISONNEUVE BOULEVARD TO THE INTERSECTION WELLINGTON STREET AND THE SIR JOHN A. MACDONALD PARKWAY. THE NORTH BOUND HOV LANE IS EXCLUDED FROM THIS WORK AS IT WILL BE RECONSTRUCTED IN 2019.



REMOVALS PLAN - NORTH HALF

1:500

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 PLOTTED: Jul 13, 2018 1:32:27pm
 DRAWN BY: Weimer, Adrian

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PORTAGE BRIDGE
 SURFACE REPAIRS

Drawing Title/Titre du dessin

REMOVALS PLAN -
 SOUTH HALF

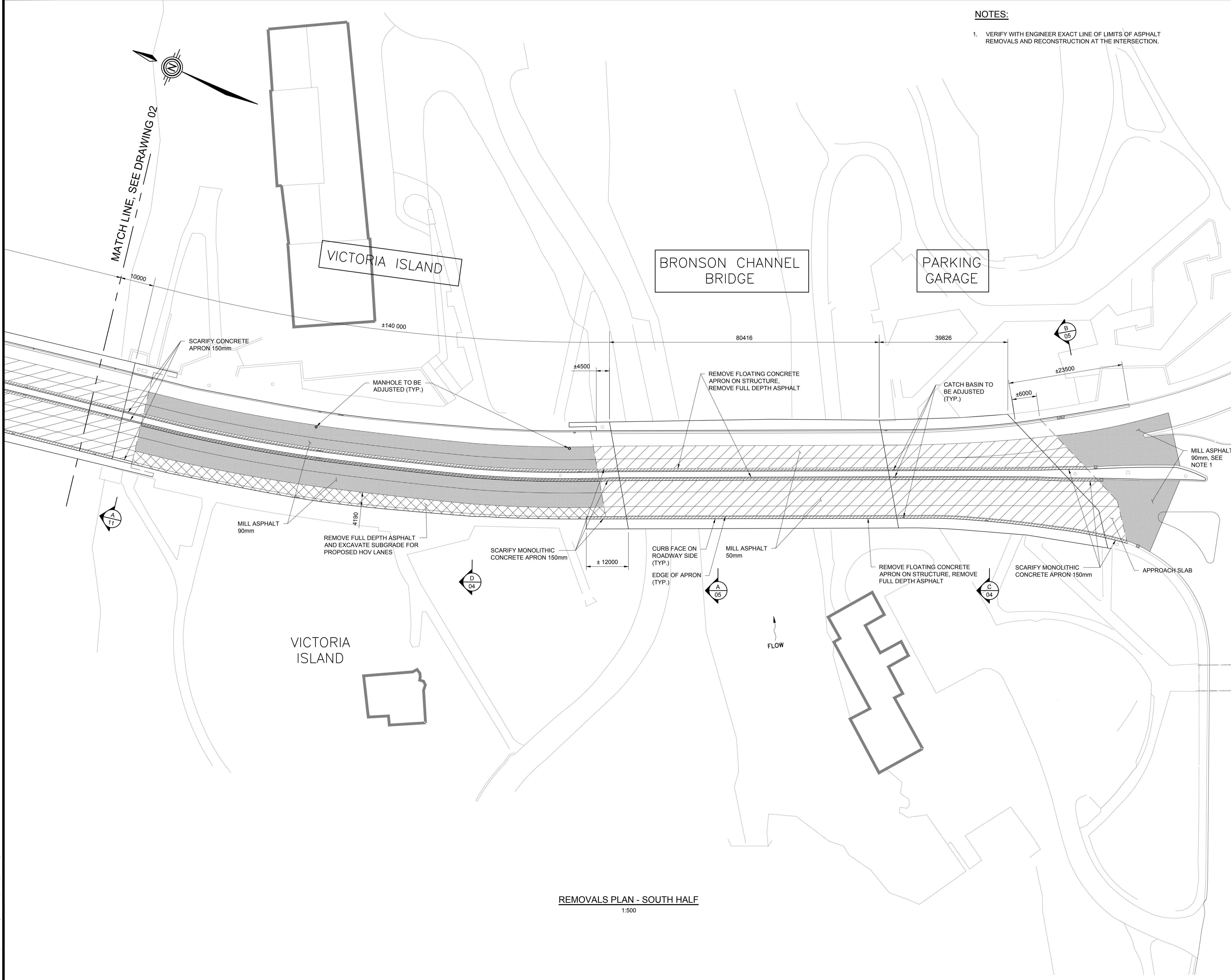
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 designed by / conçu par H.L.
 drawn by / dessiné par H.L.

date JULY 2018 scale échelle AS

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NOTES:

1. VERIFY WITH ENGINEER EXACT LINE OF LIMITS OF ASPHALT REMOVALS AND RECONSTRUCTION AT THE INTERSECTION.



REMOVALS PLAN - SOUTH HALF
 1:500

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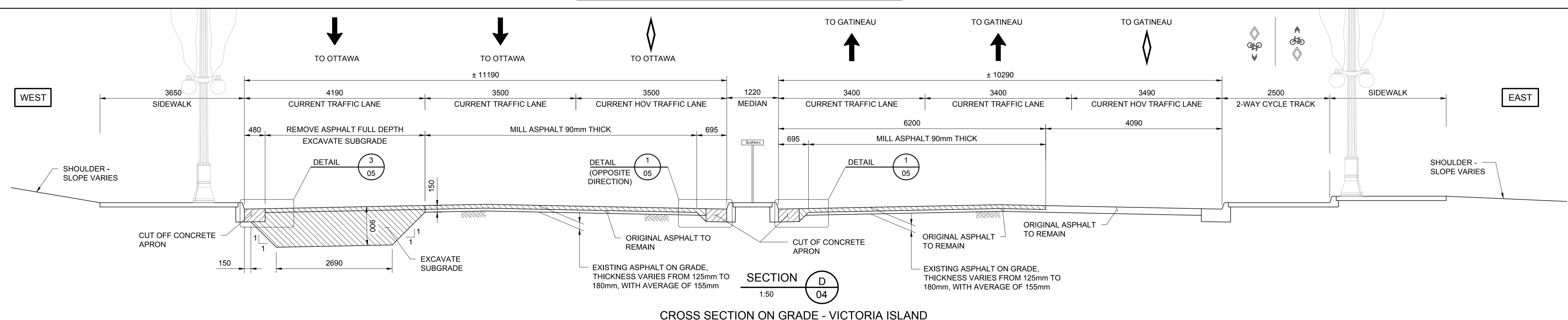
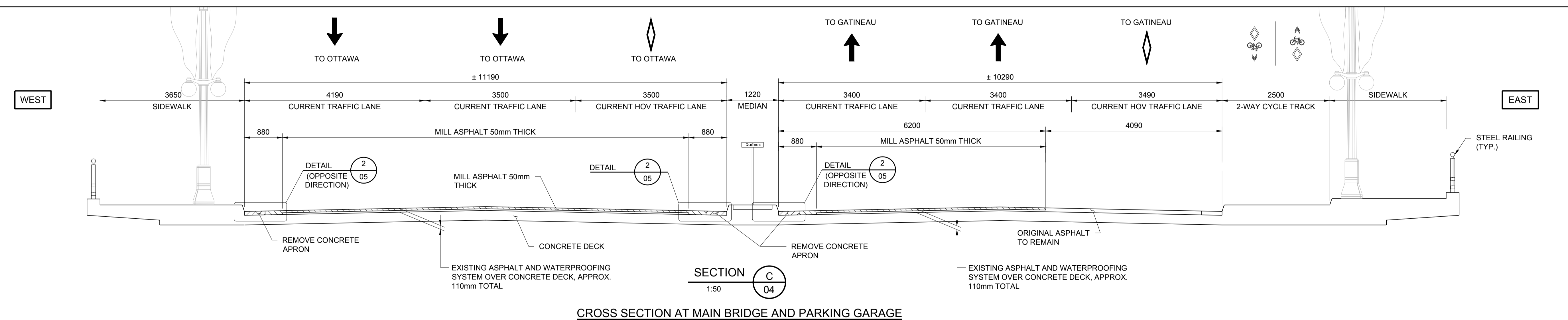
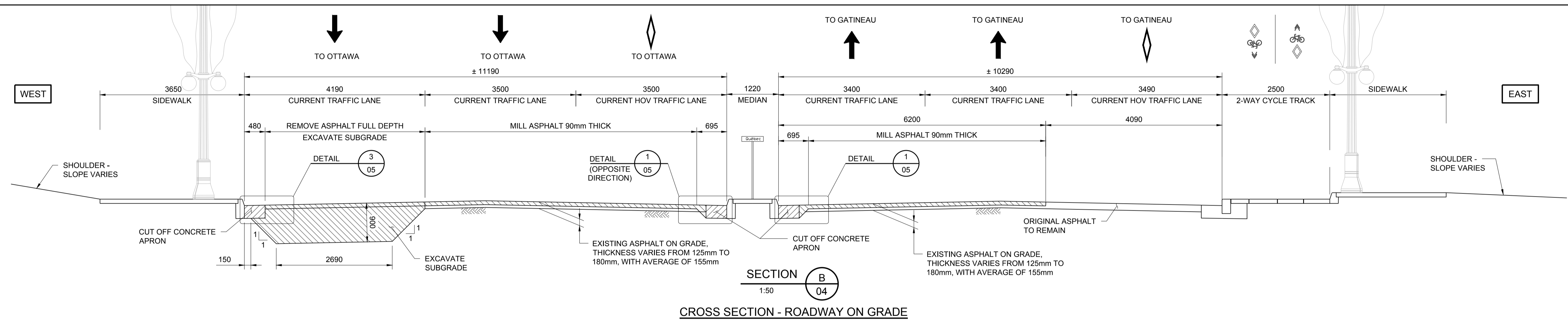
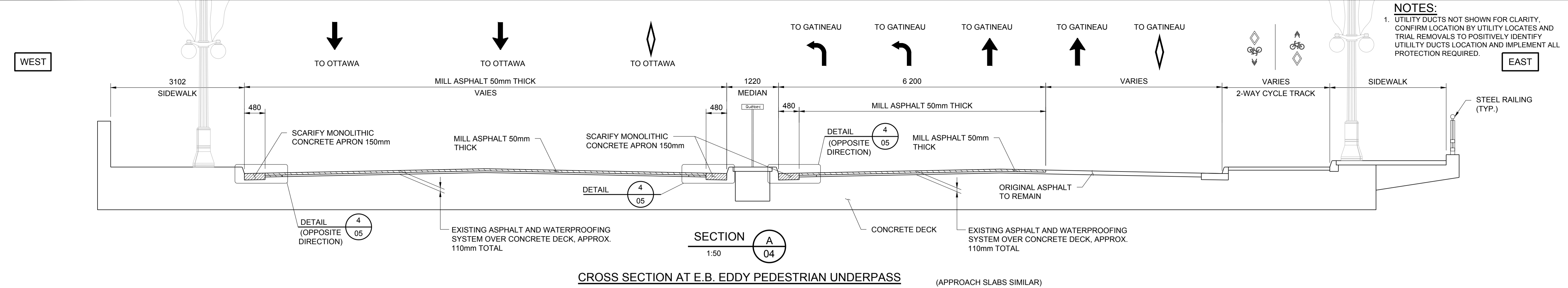
**PORTAGE BRIDGE
 SURFACE REPAIRS**

Drawing Title/Titre du dessin

SECTIONS - REMOVALS

approved by approuvé par	Z.F.W.
designed by conçu par	H.L.
drawn by dessiné par	H.L.
date	JULY 2018
scale échelle	AS

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175	04



NOTES:
 1. UTILITY DUCTS NOT SHOWN FOR CLARITY. CONFIRM LOCATION BY UTILITY LOCATES AND TRIAL REMOVALS TO POSITIVELY IDENTIFY UTILITY DUCTS LOCATION AND IMPLEMENT ALL PROTECTION REQUIRED.

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 DRAWN BY: M. Meunier, Admin

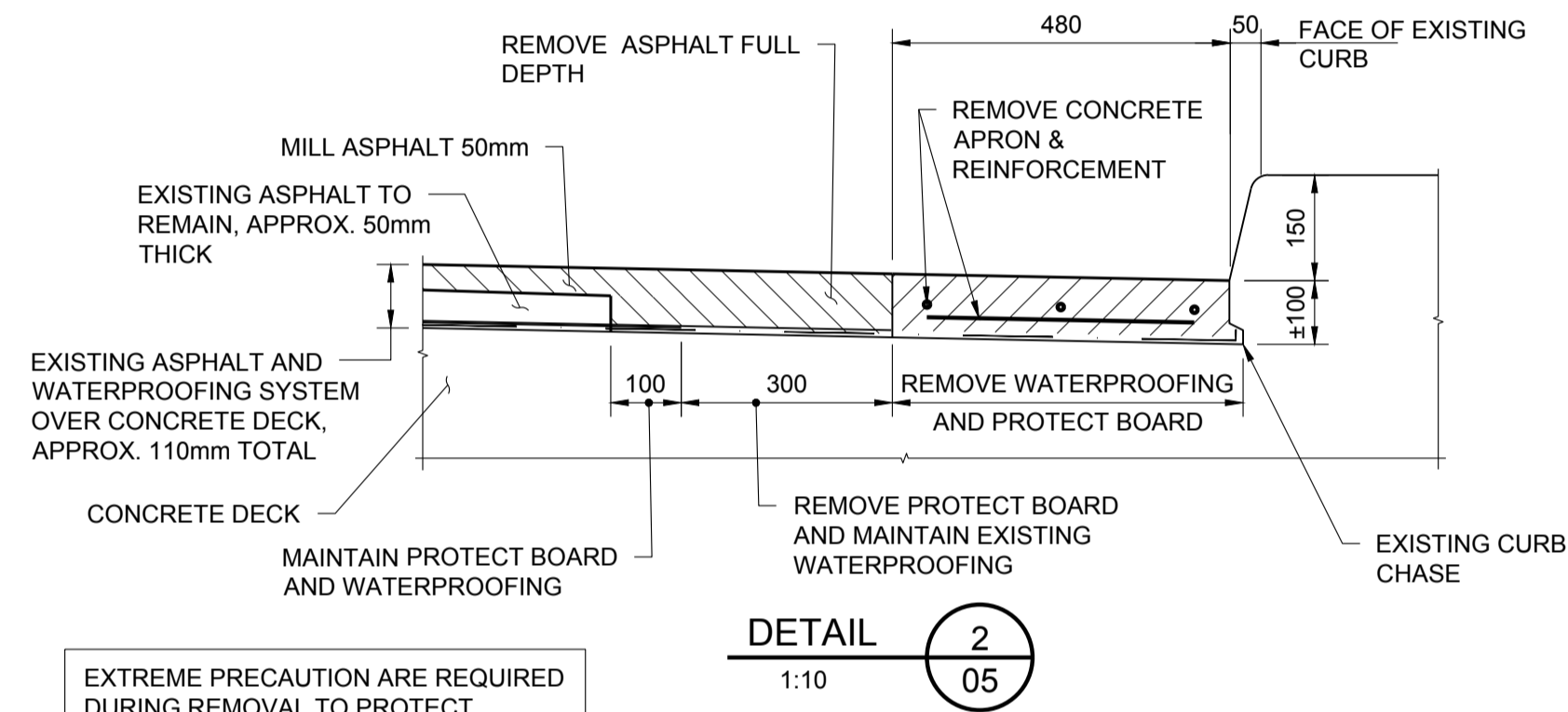
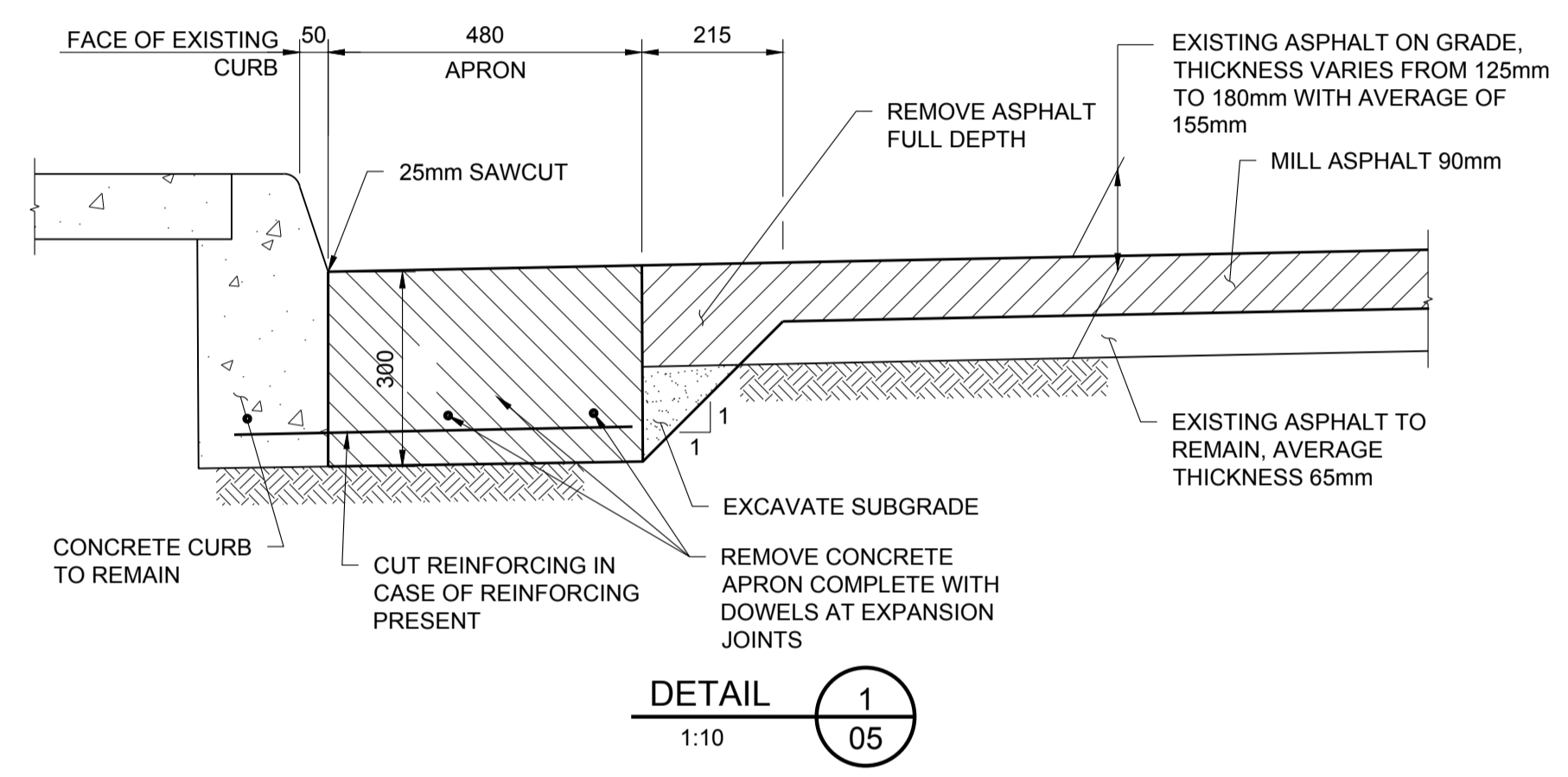
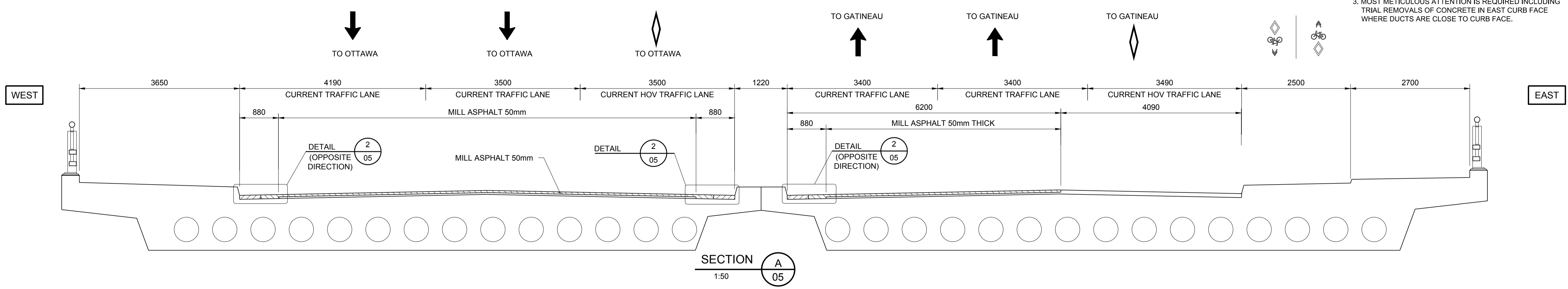
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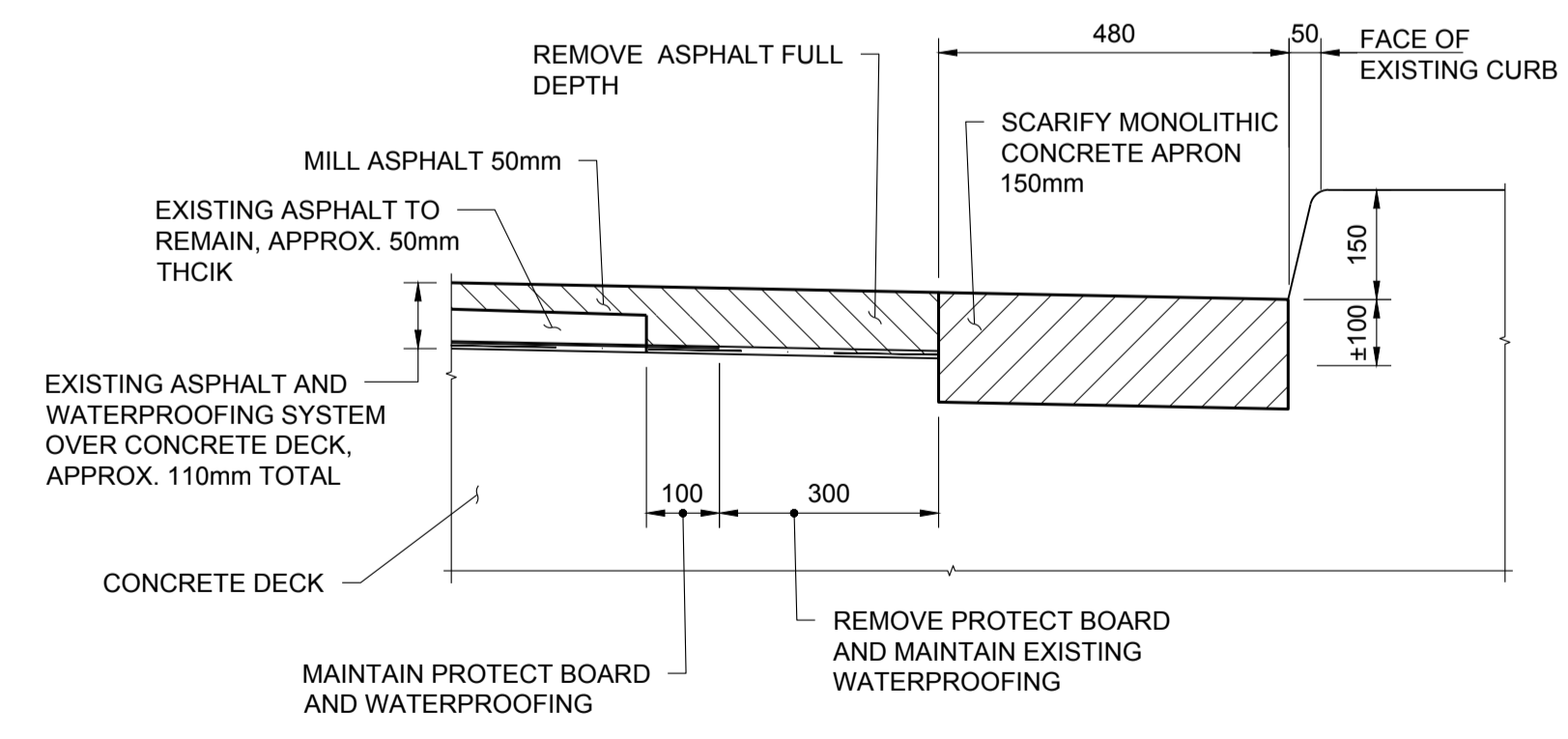
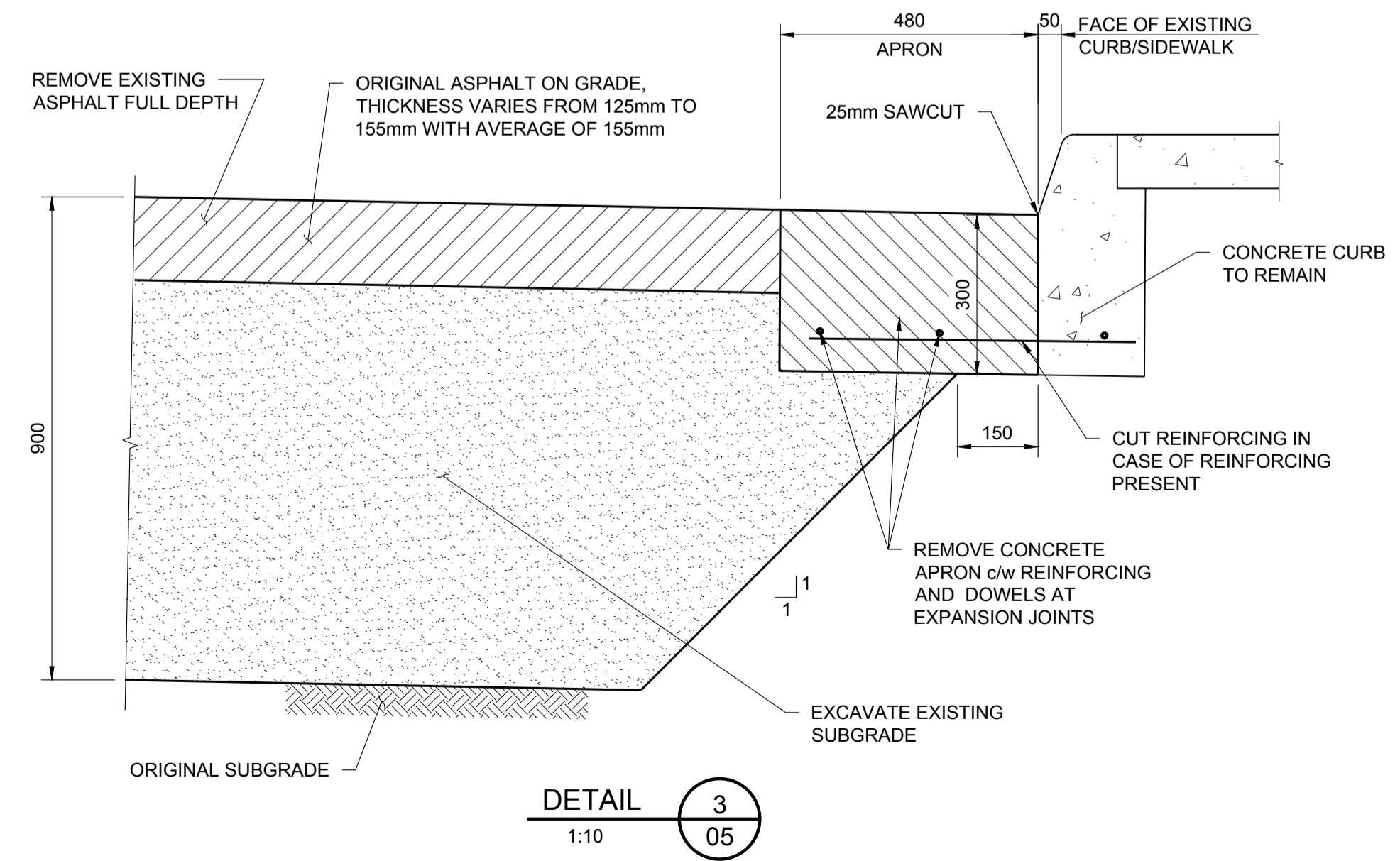
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- NOTES:**
1. THE UTILITY DUCTS ARE PLACED IN ONE HORIZONTAL ROW AND ADJACENT TO THE TOP SURFACE AND CURB.
 2. CONTRACTOR SHALL POSITIVELY IDENTIFY ALL UTILITIES AND PROTECT THE UTILITIES DURING WORK.
 3. MOST METICULOUS ATTENTION IS REQUIRED INCLUDING TRIAL REMOVALS OF CONCRETE IN EAST CURB FACE WHERE DUCTS ARE CLOSE TO CURB FACE.



EXTREME PRECAUTION ARE REQUIRED DURING REMOVAL TO PROTECT WATERPROOFING AND PROTECTION BOARD FOR OVERLAPPING TO NEW.



EXTREME PRECAUTION ARE REQUIRED DURING REMOVAL TO PROTECT WATERPROOFING AND PROTECTION BOARD FOR OVERLAPPING TO NEW.

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PORTAGE BRIDGE
 SURFACE REPAIRS

SECTIONS AND DETAILS -
 REMOVALS

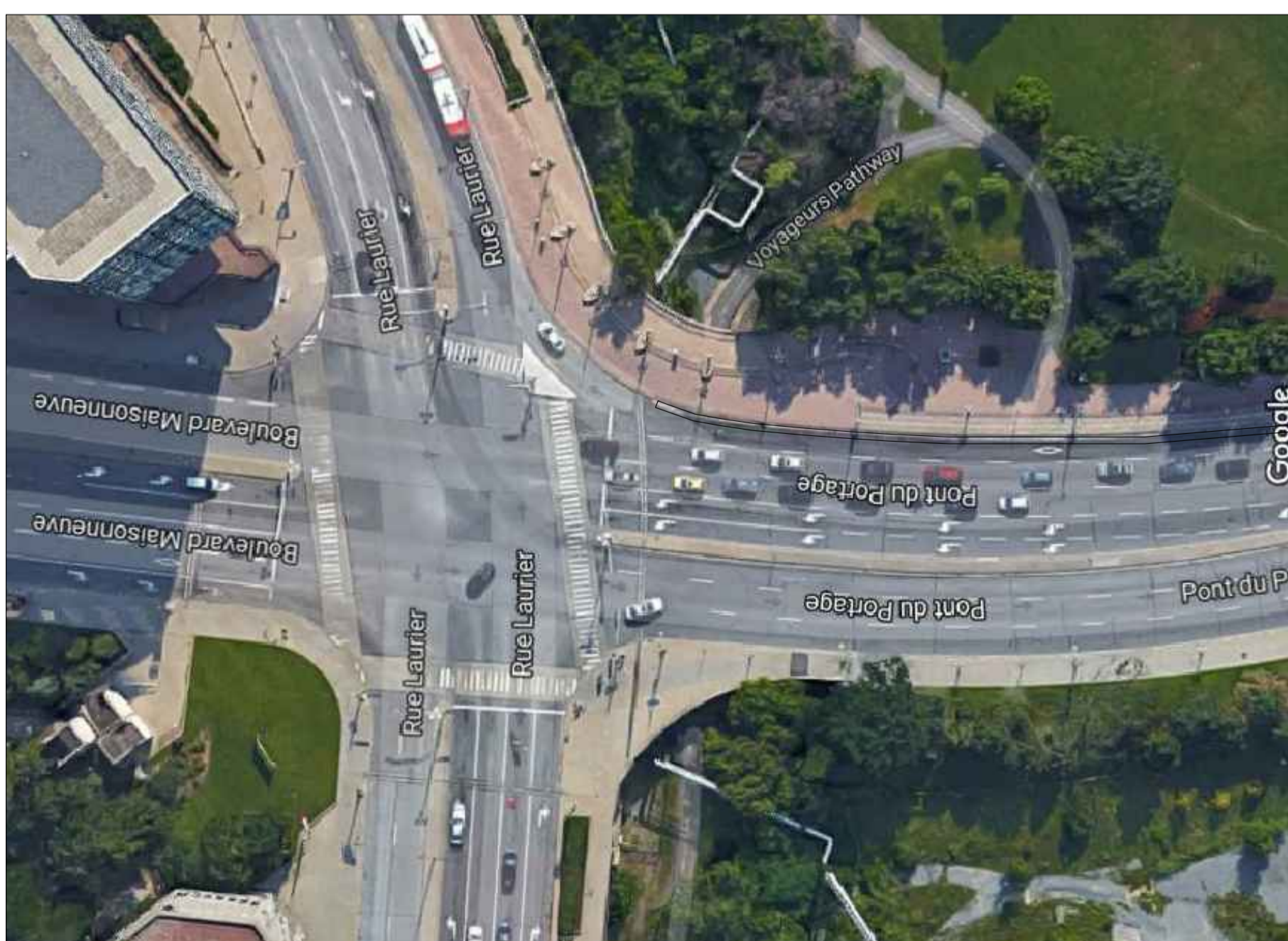
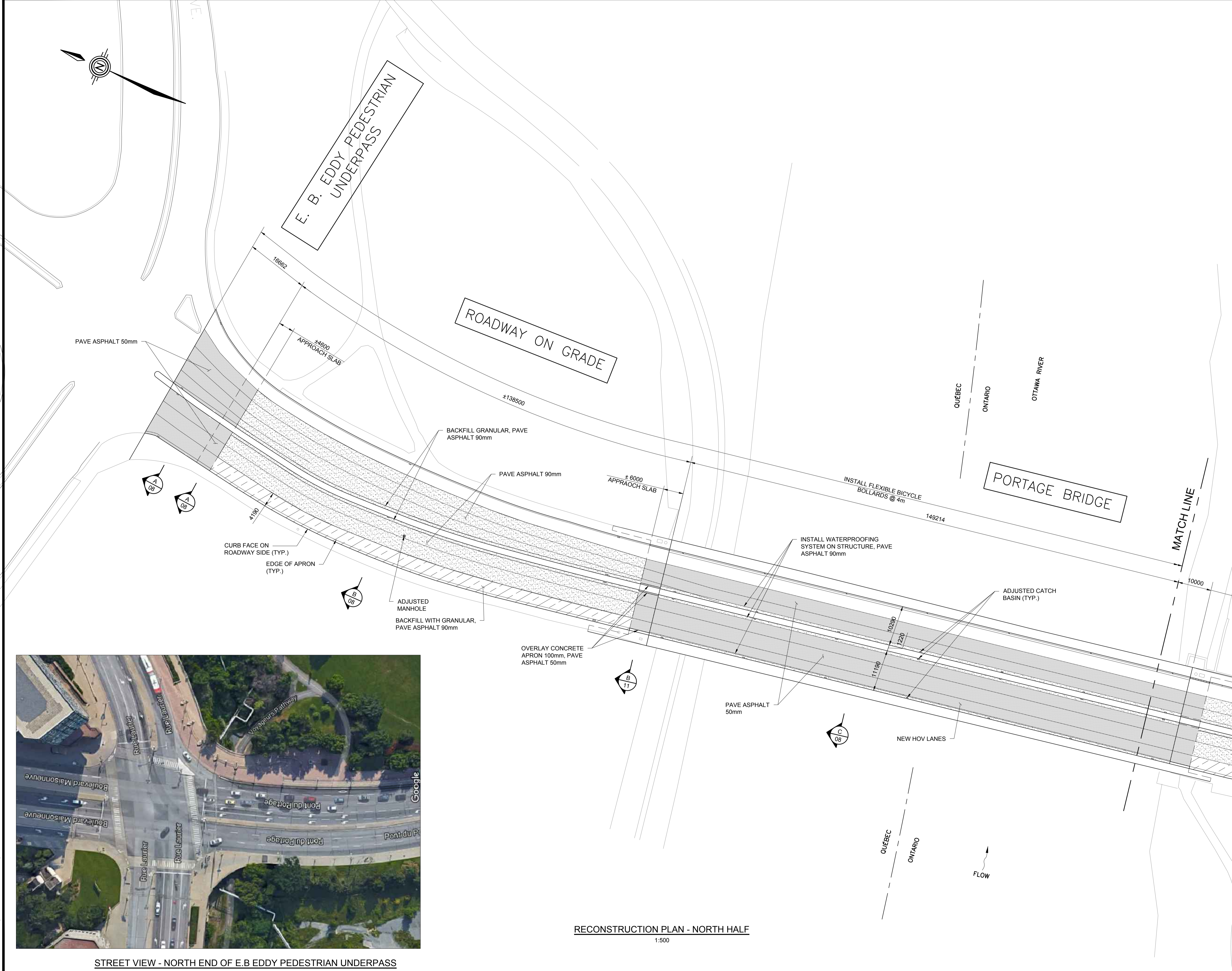
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designed by / conçu par	H.L.
drawn by / dessiné par	H.L.
date	JULY 2018
scale / échelle	AS

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 DRAWN BY: M. McNamee, A. Brian

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**PORTAGE BRIDGE
SURFACE REPAIRS**

**RECONSTRUCTION PLAN -
NORTH HALF**



STREET VIEW - NORTH END OF E.B EDDY PEDESTRIAN UNDERPASS

RECONSTRUCTION PLAN - NORTH HALF
1:500

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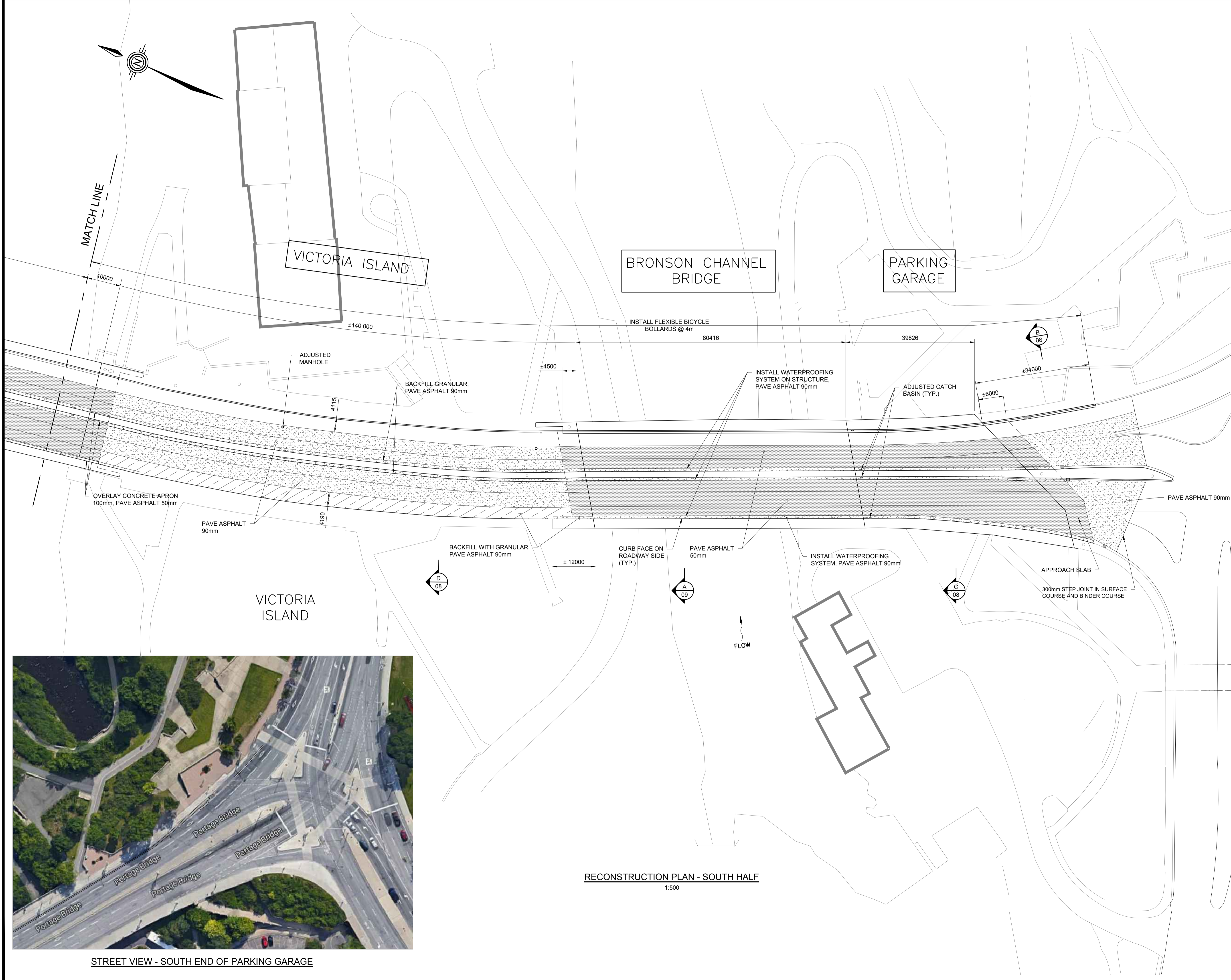
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**PORTAGE BRIDGE
 SURFACE REPAIRS**

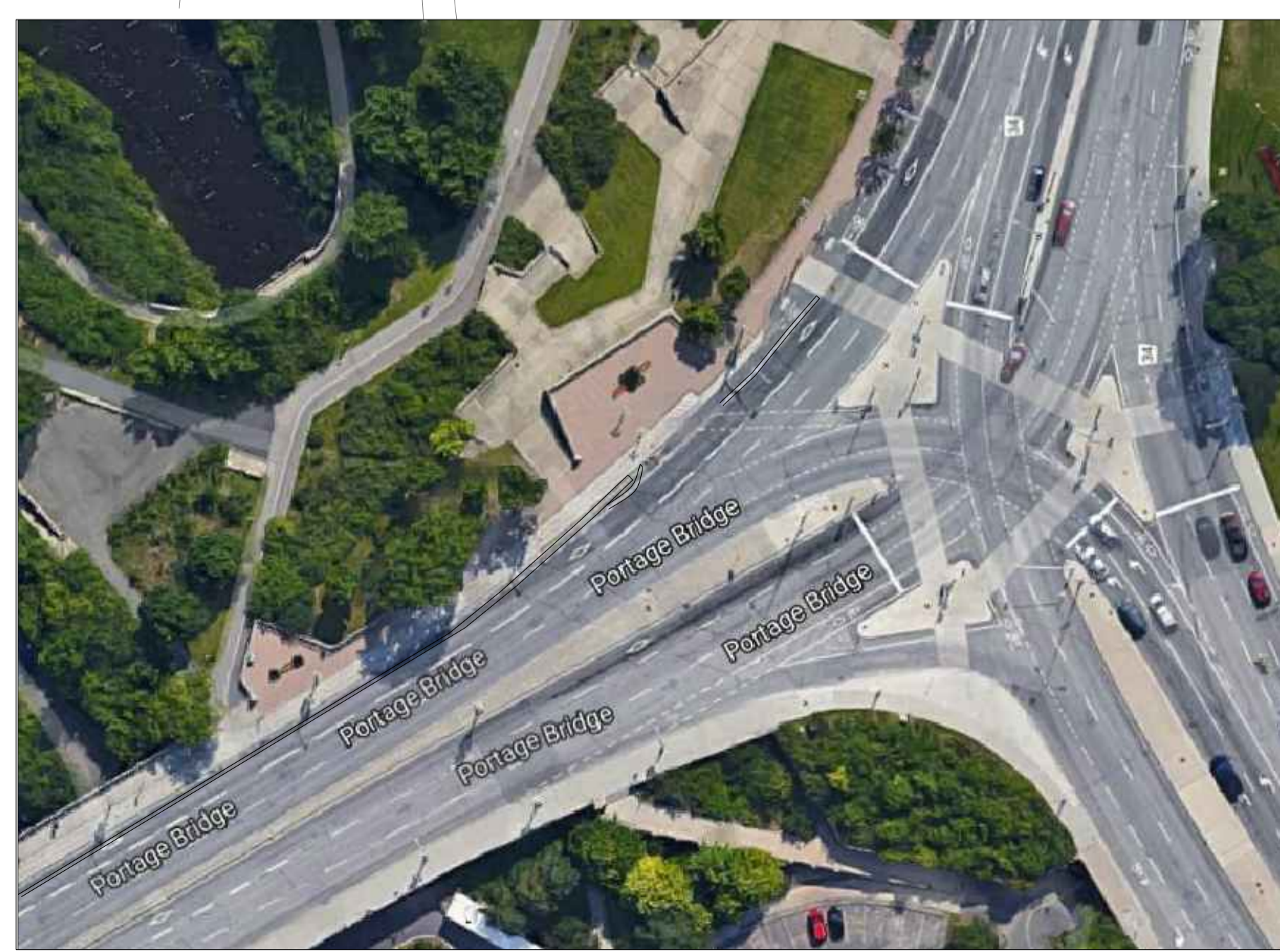
Drawing Title/Titre du dessin

RECONSTRUCTION PLAN - SOUTH HALF

approved by approuvé par	Z.F.W.
designed by conçu par	H.L.
drawn by dessiné par	H.L.
date	JULY 2018
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sheet no. no. de la feuille	07



RECONSTRUCTION PLAN - SOUTH HALF
 1:500



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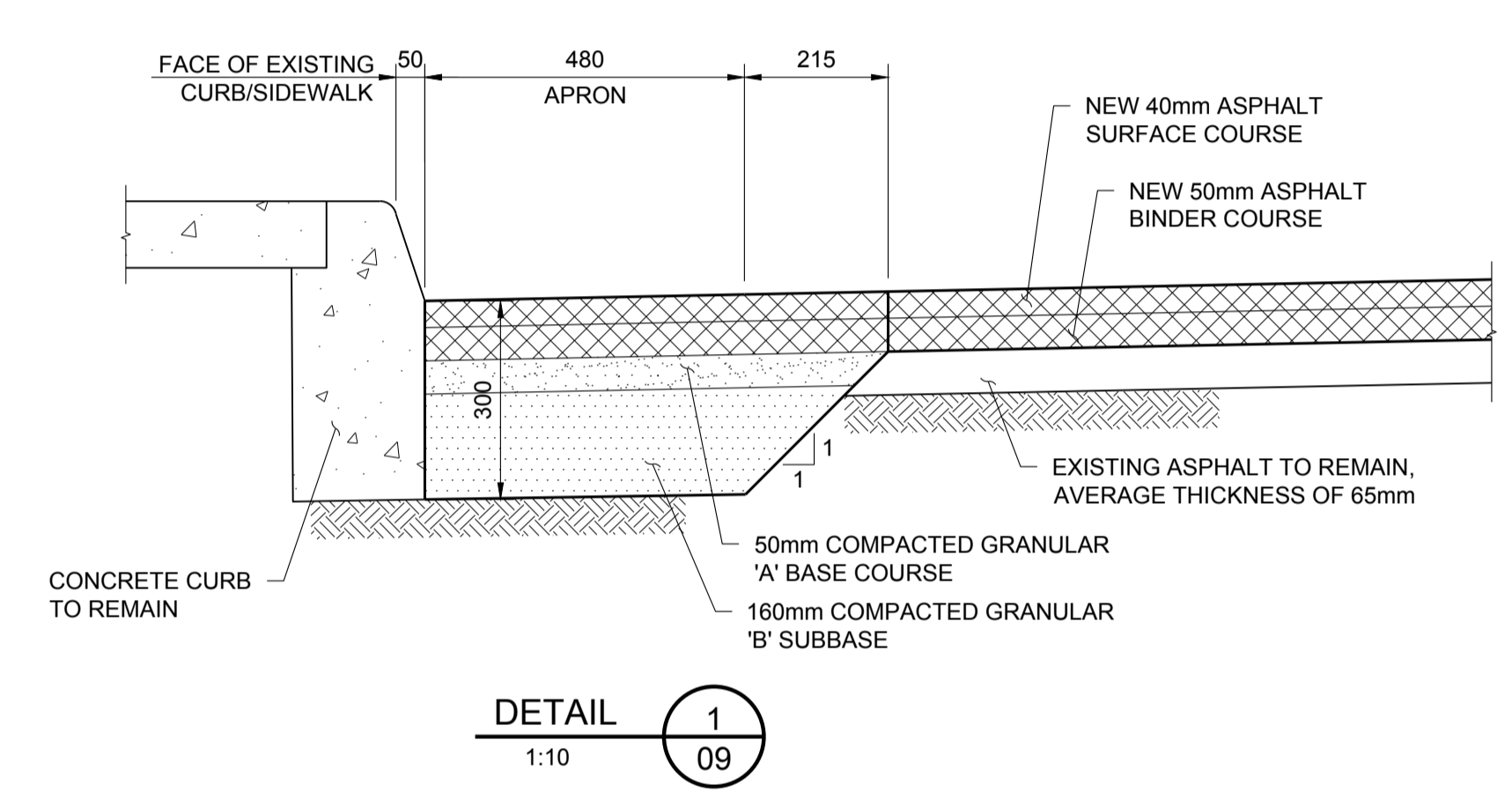
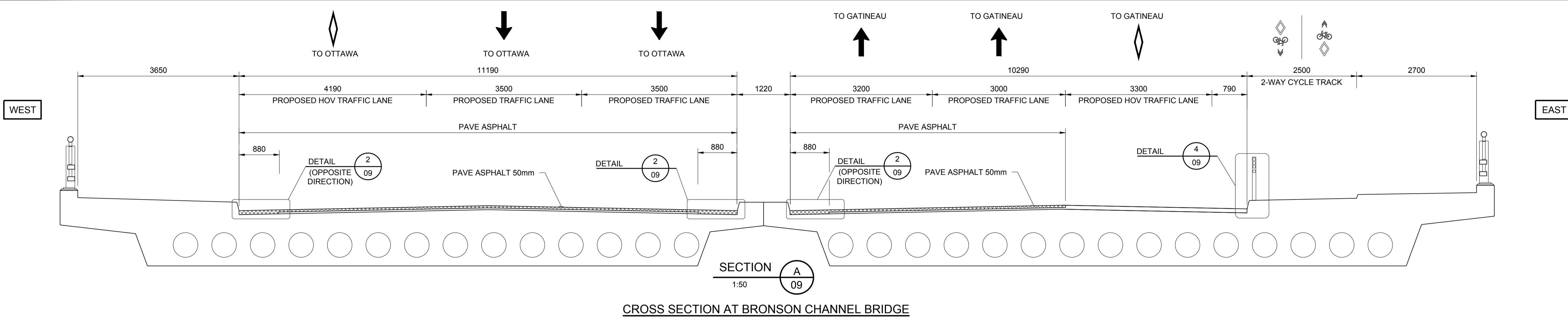
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PORTAGE BRIDGE SURFACE REPAIRS

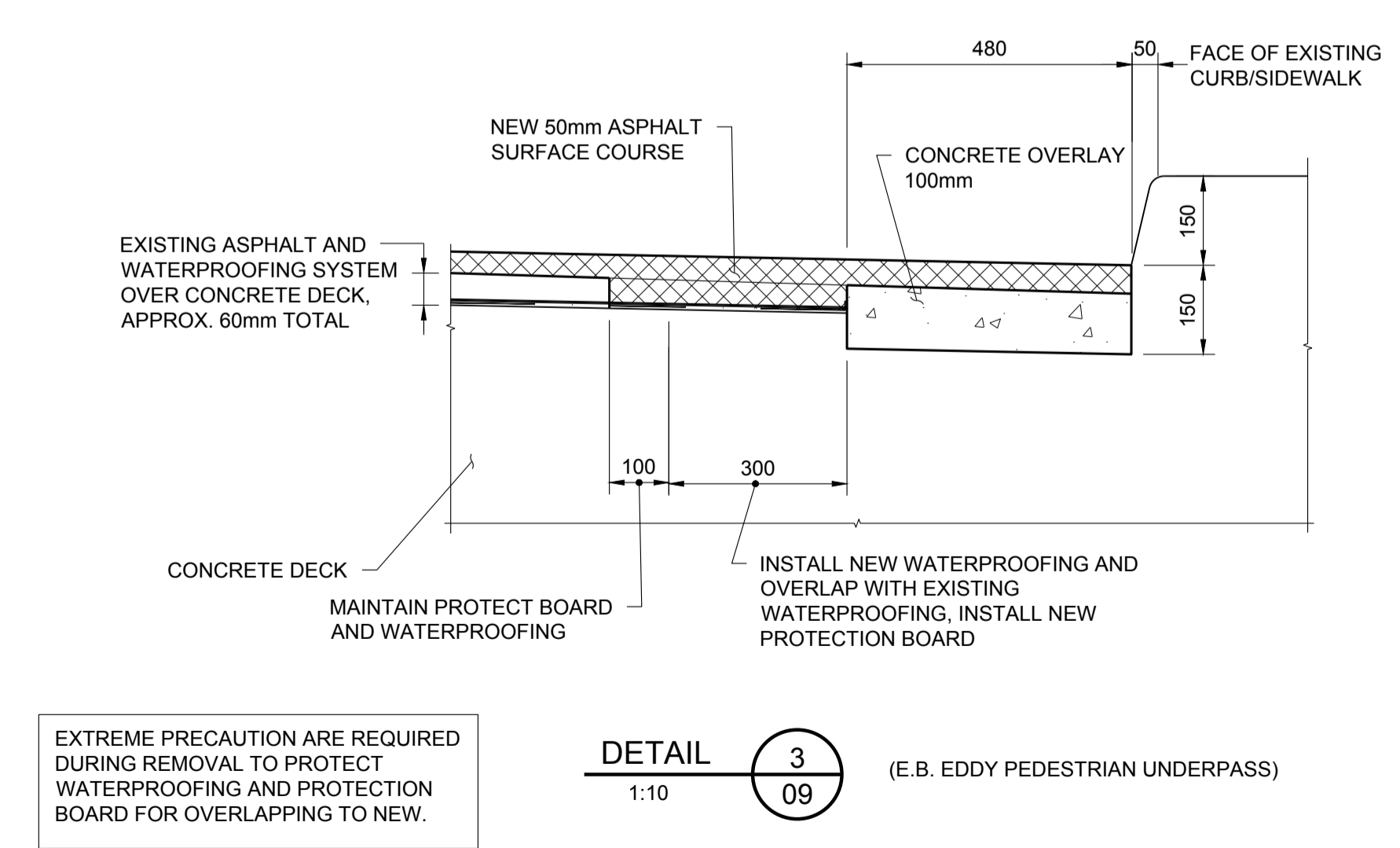
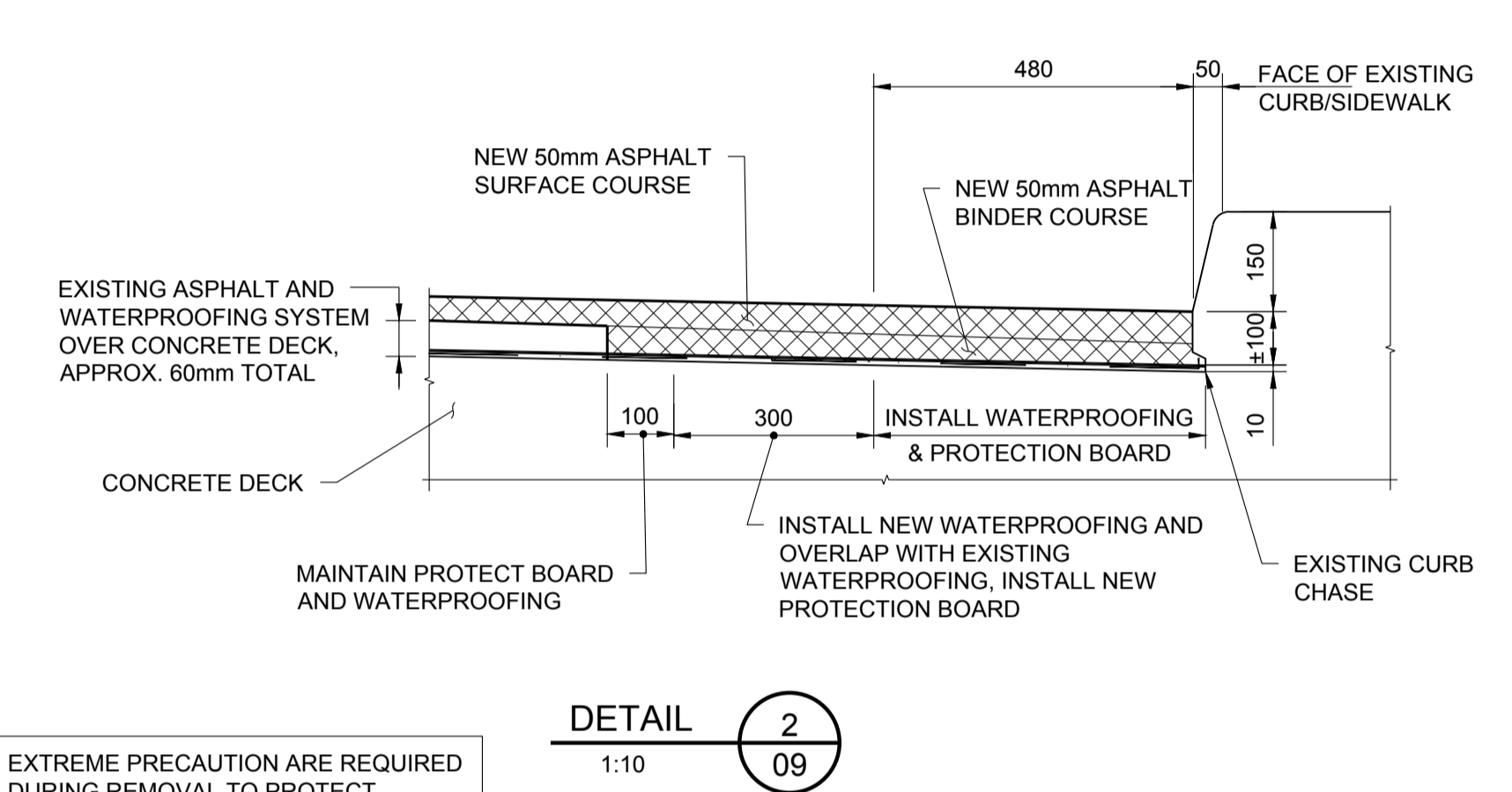
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SECTIONS AND DETAILS - RECONSTRUCTION

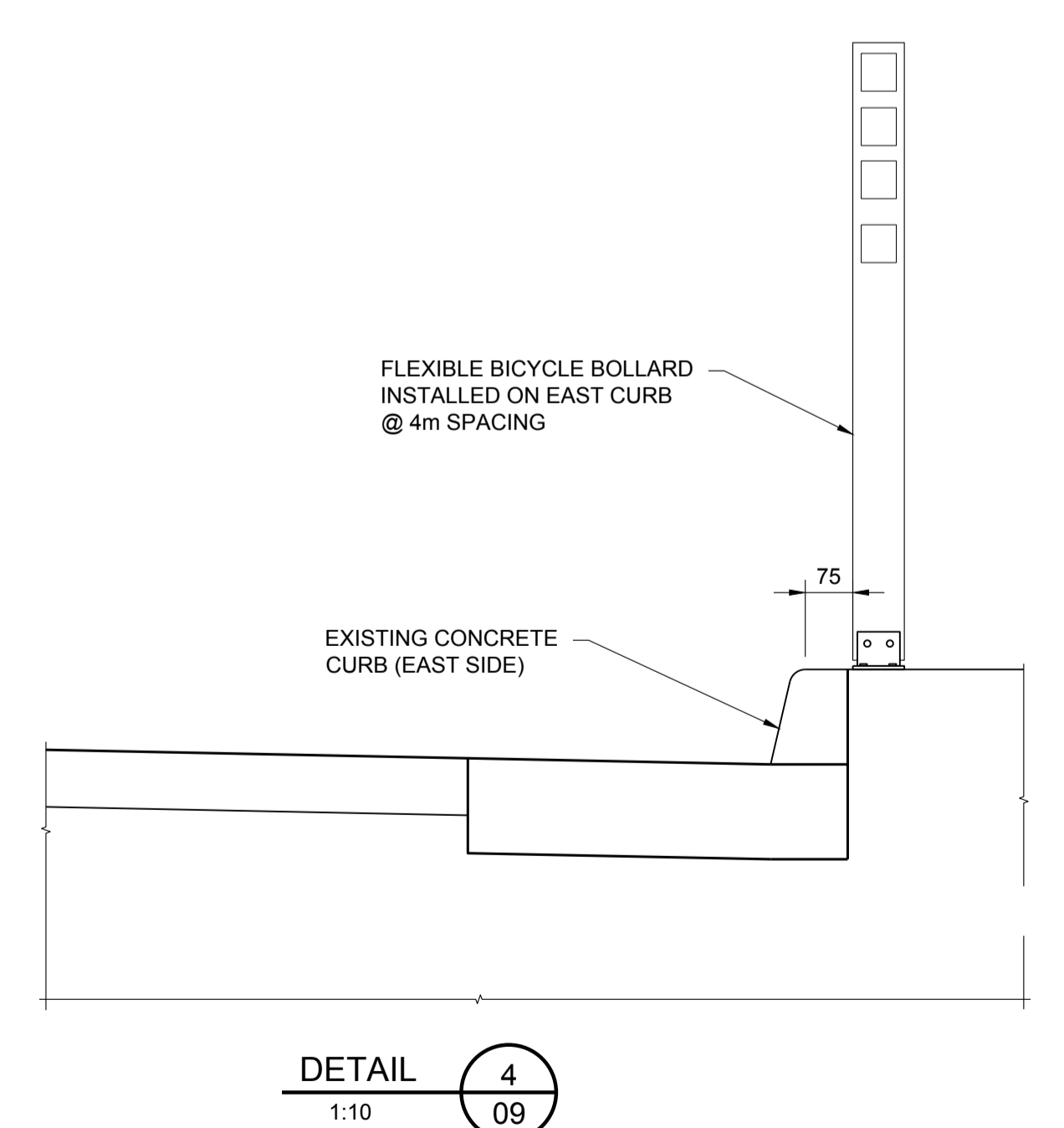
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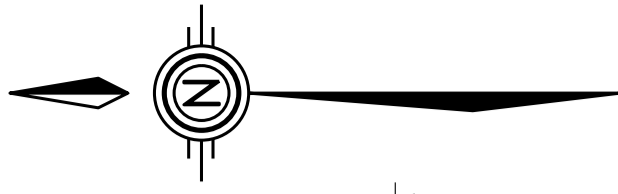
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EXTREME PRECAUTION ARE REQUIRED DURING REMOVAL TO PROTECT WATERPROOFING AND PROTECTION BOARD FOR OVERLAPPING TO NEW.



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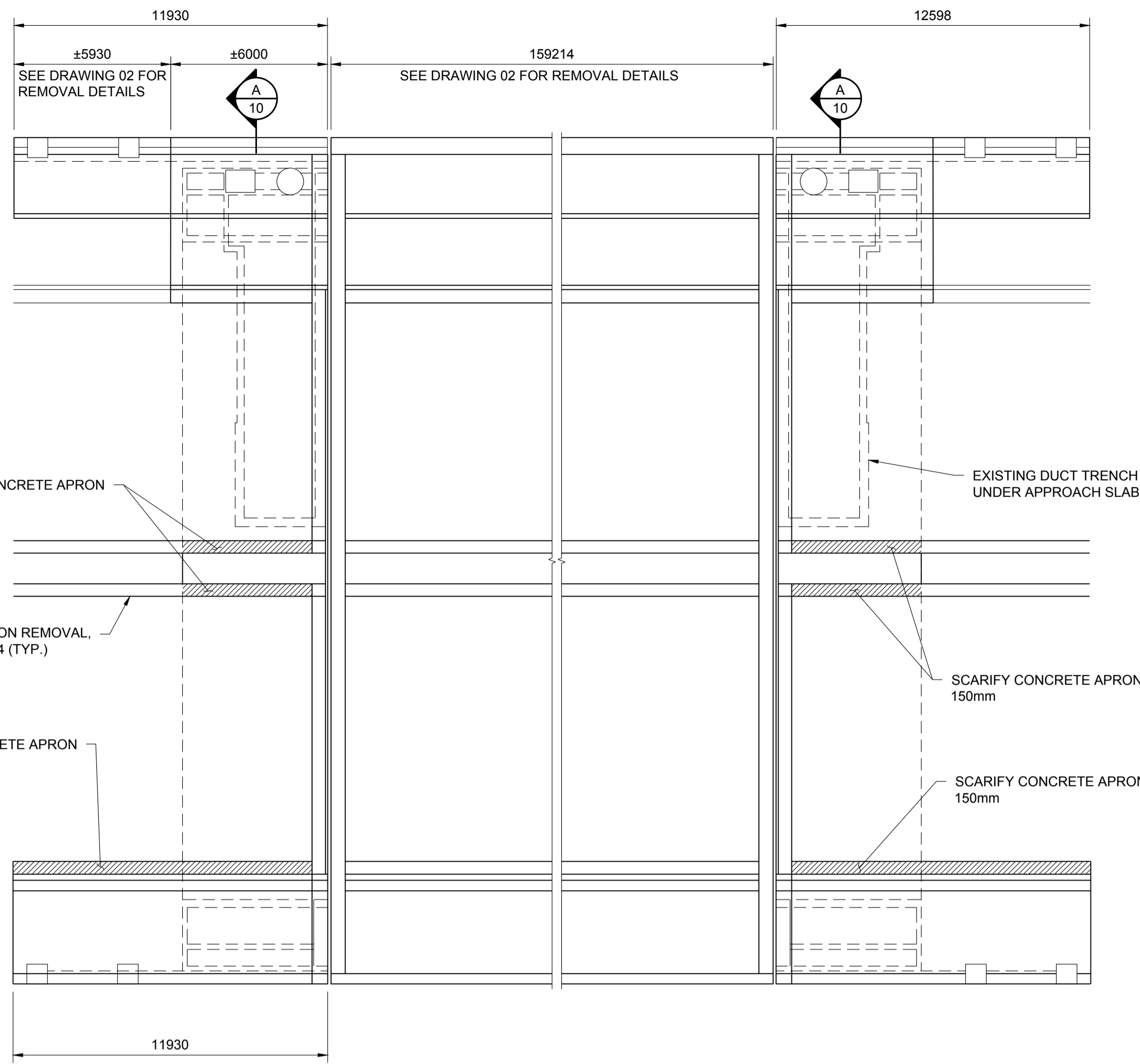


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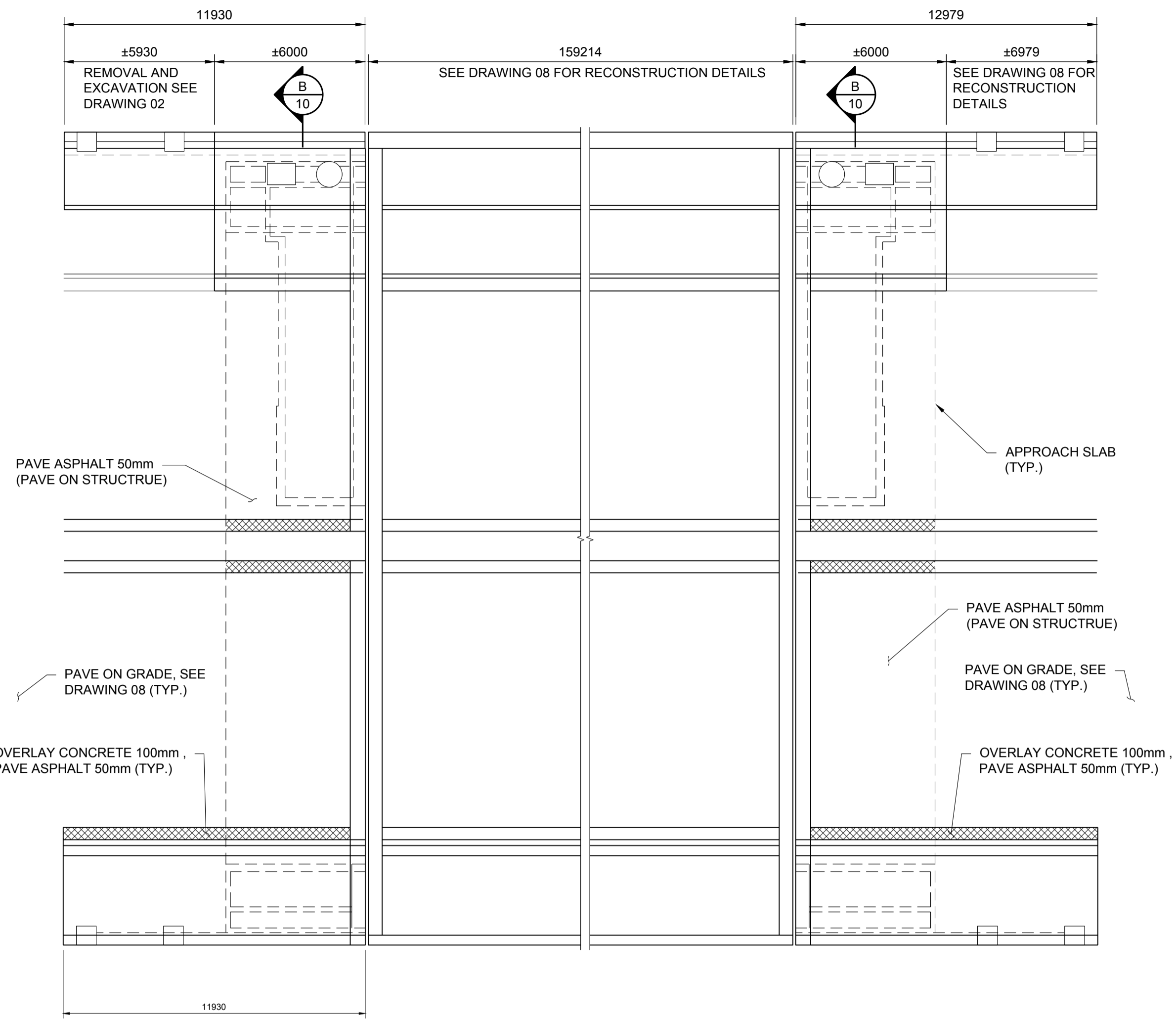


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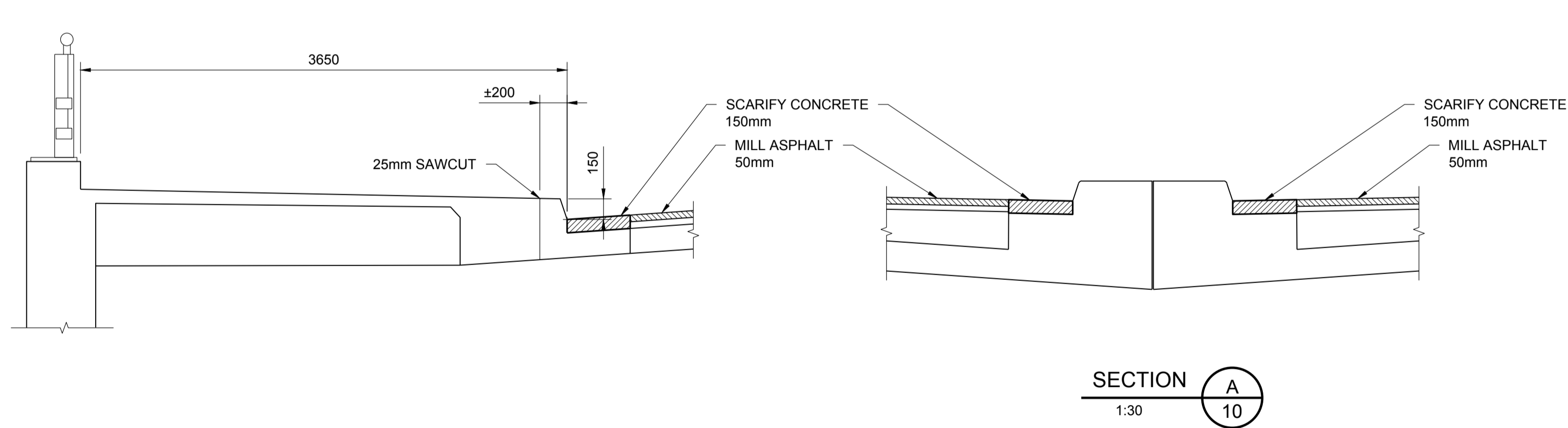
MAIN BRIDGE APPROACH SLAB PLAN - REMOVALS

1:150

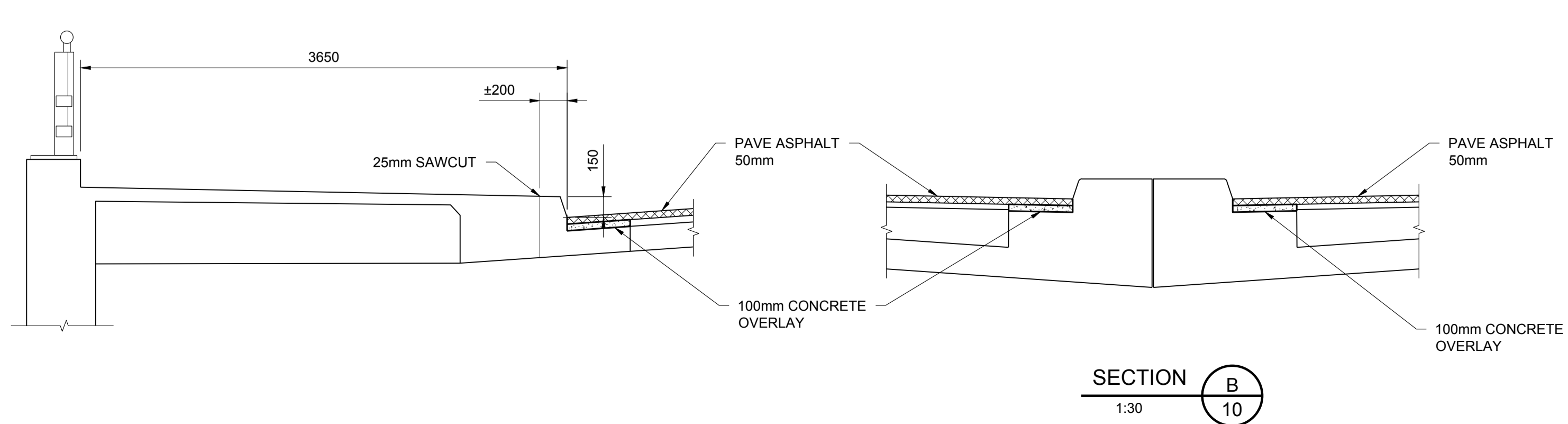
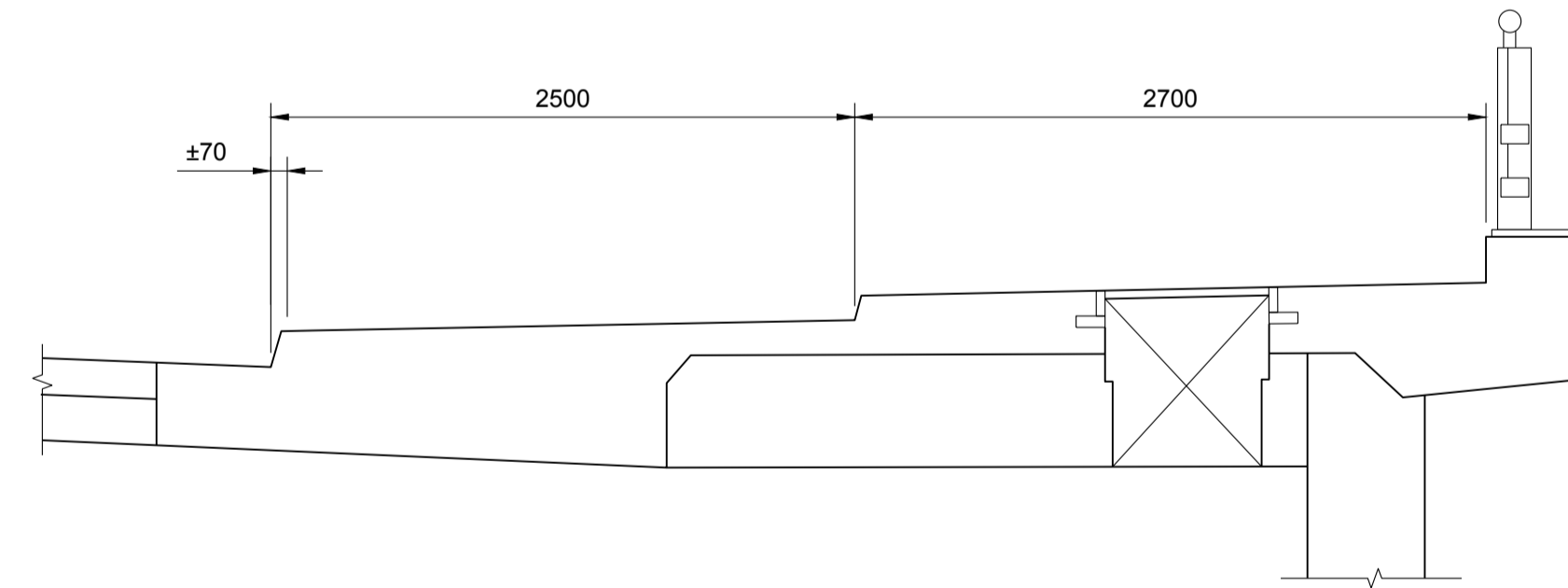


MAIN BRIDGE APPROACH SLAB PLAN - RECONSTRUCTION

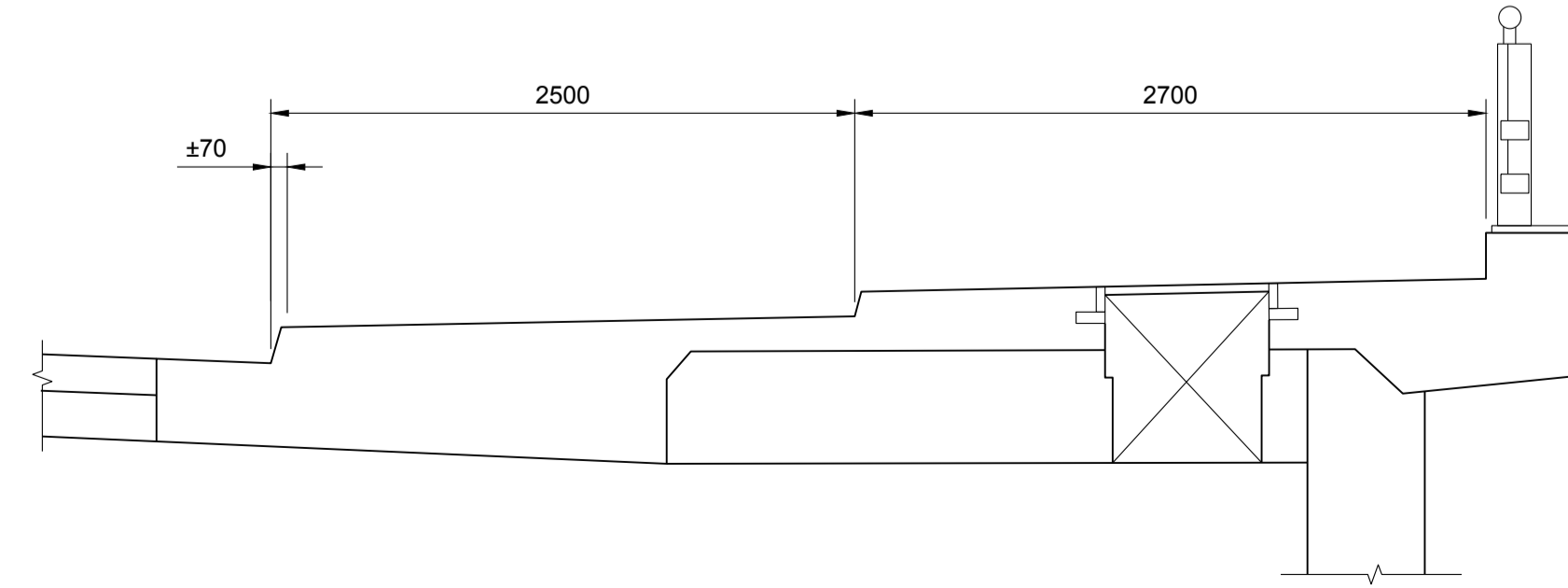
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SECTION A
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1:30



SECTION B
10
1:30



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**PORTAGE BRIDGE
SURFACE REPAIRS**

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**MAIN BRIDGE
APPROACH SLABS**

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dessiné par H.L.

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échelle

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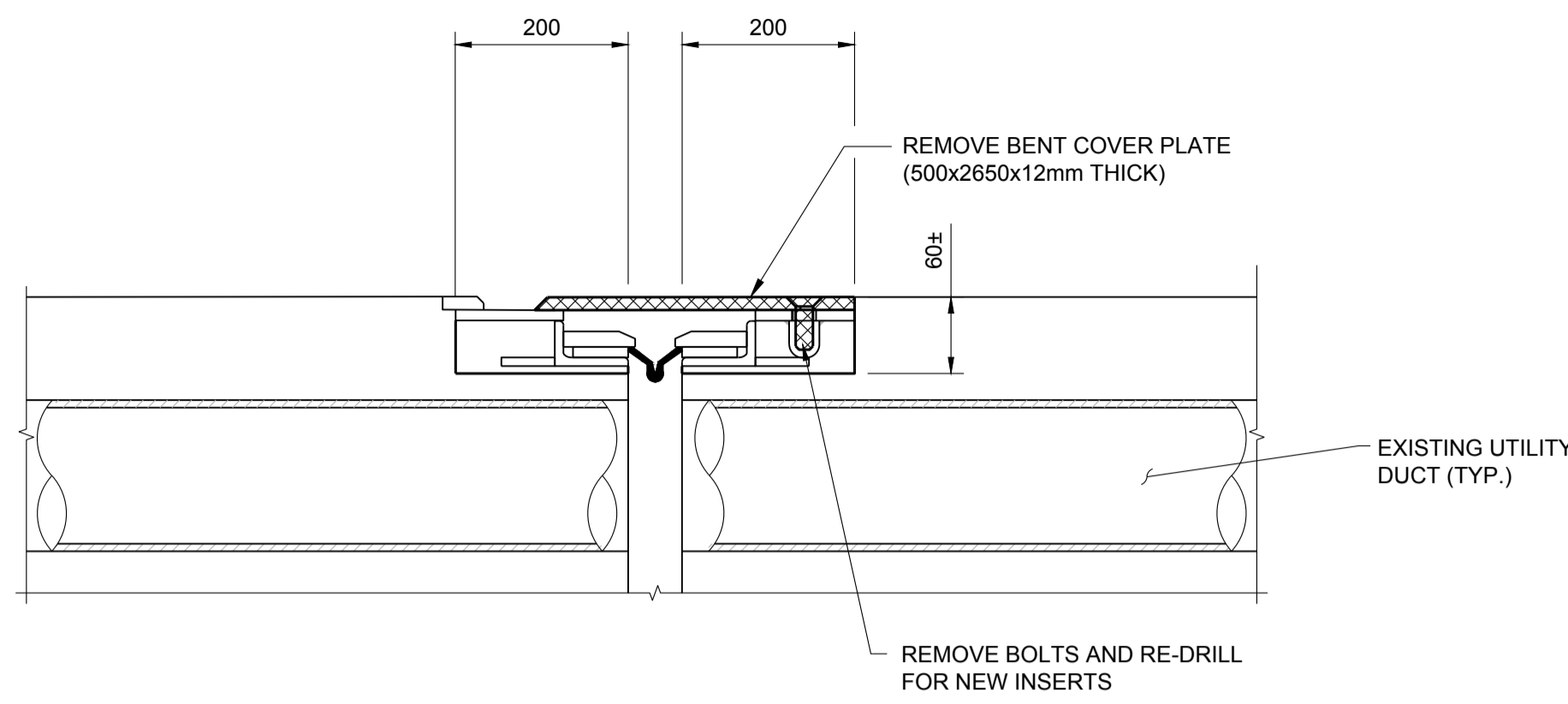
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**PORTAGE BRIDGE
SURFACE REPAIRS**

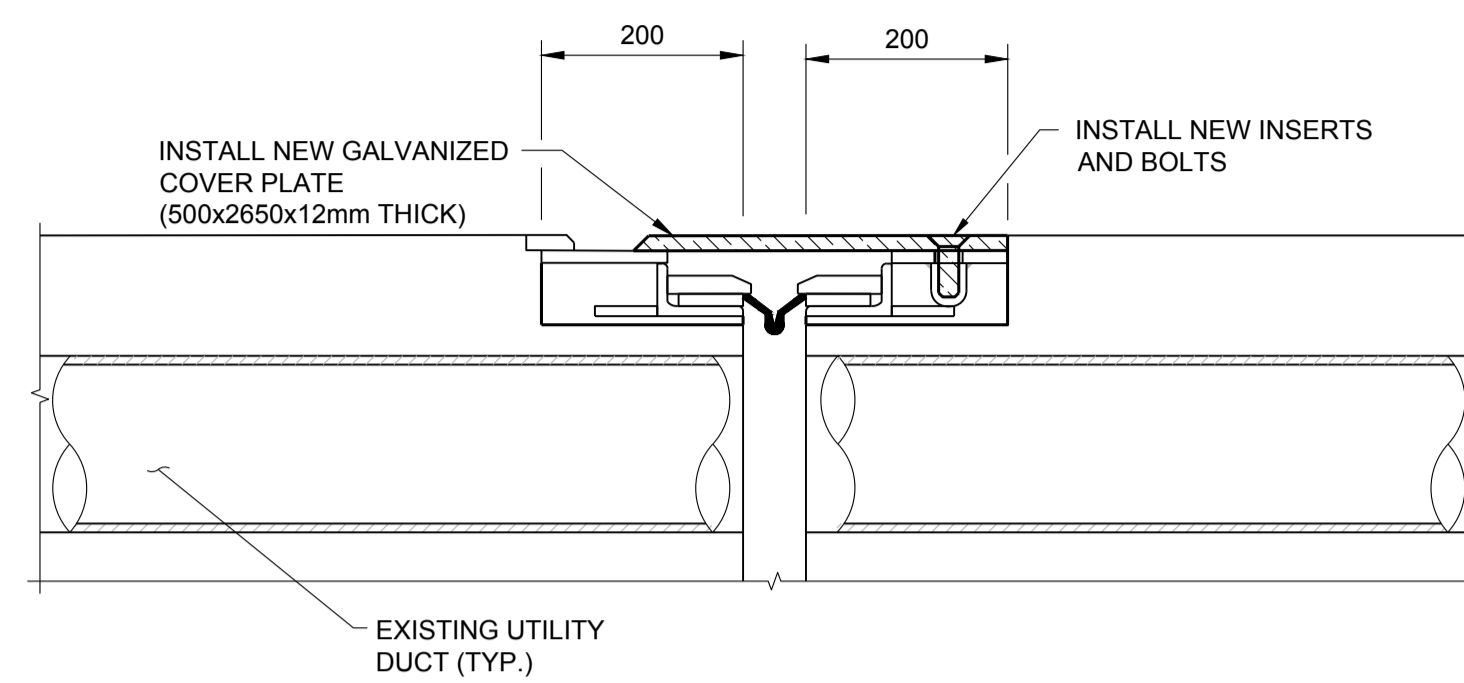
**EXPANSION JOINT AND
SIDEWALK REPAIRS DETAILS**

approved by approuvé par	Z.F.W.
designed by conçu par	H.L.
drawn by dessiné par	H.L.

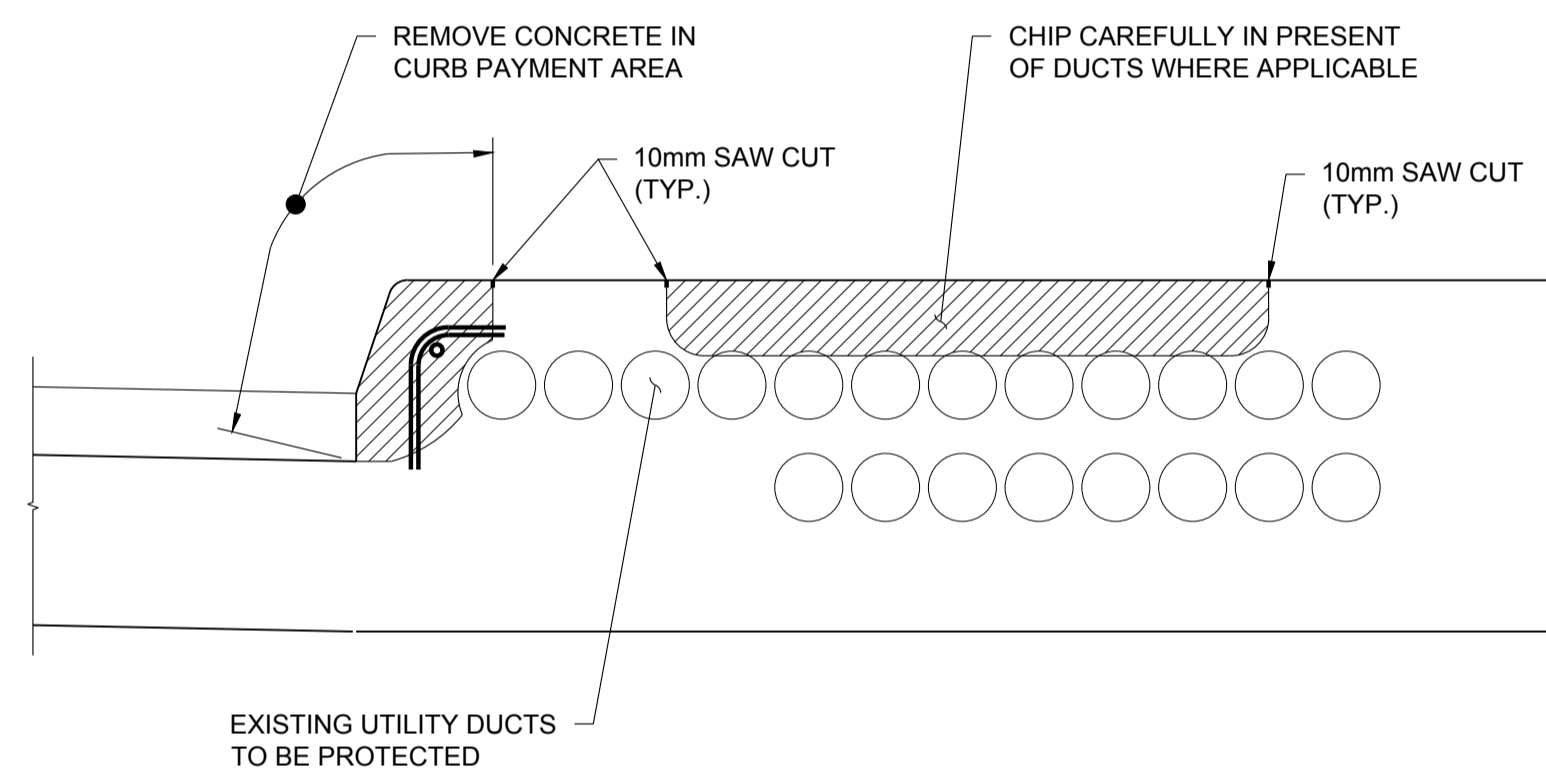
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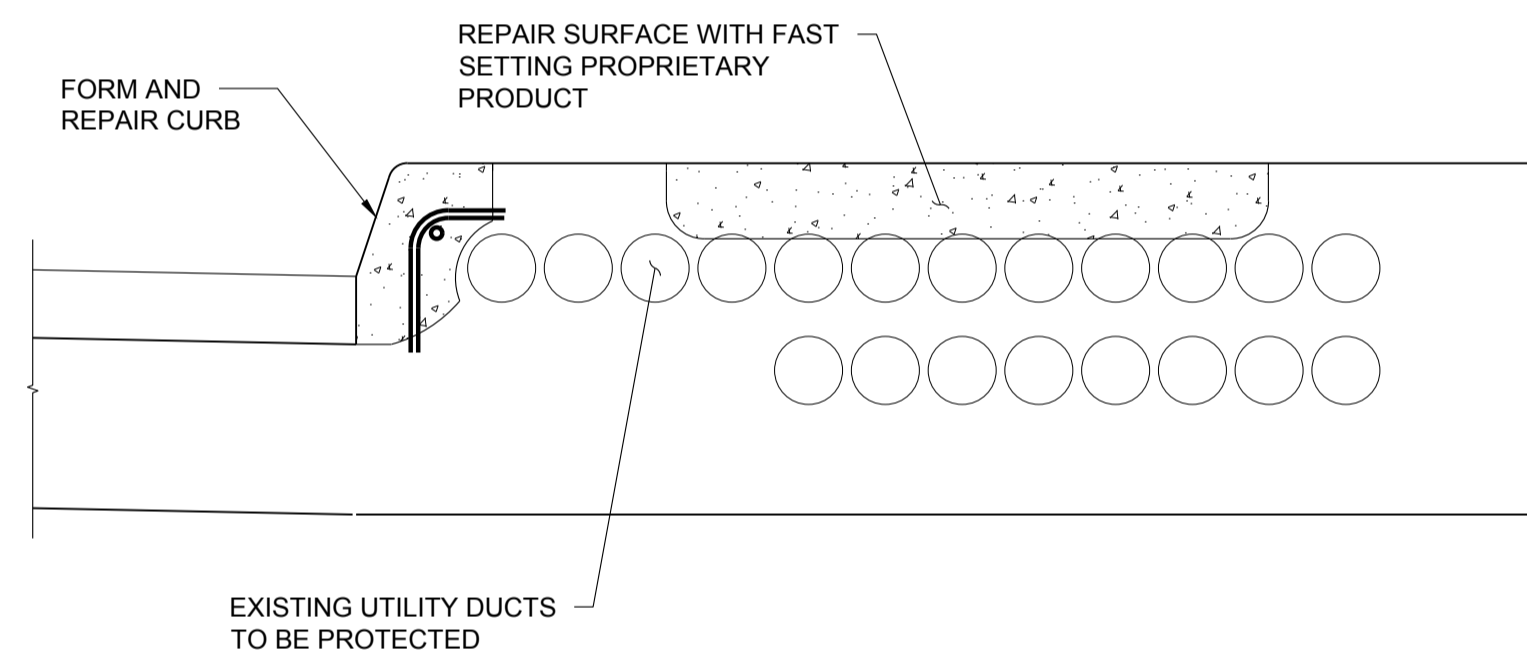
MAIN BRIDGE- EXPANSION JOINT ON EAST SIDEWALK - REMOVALS (BICYCLE PORTION - 2 LOCATIONS)
N.T.S.



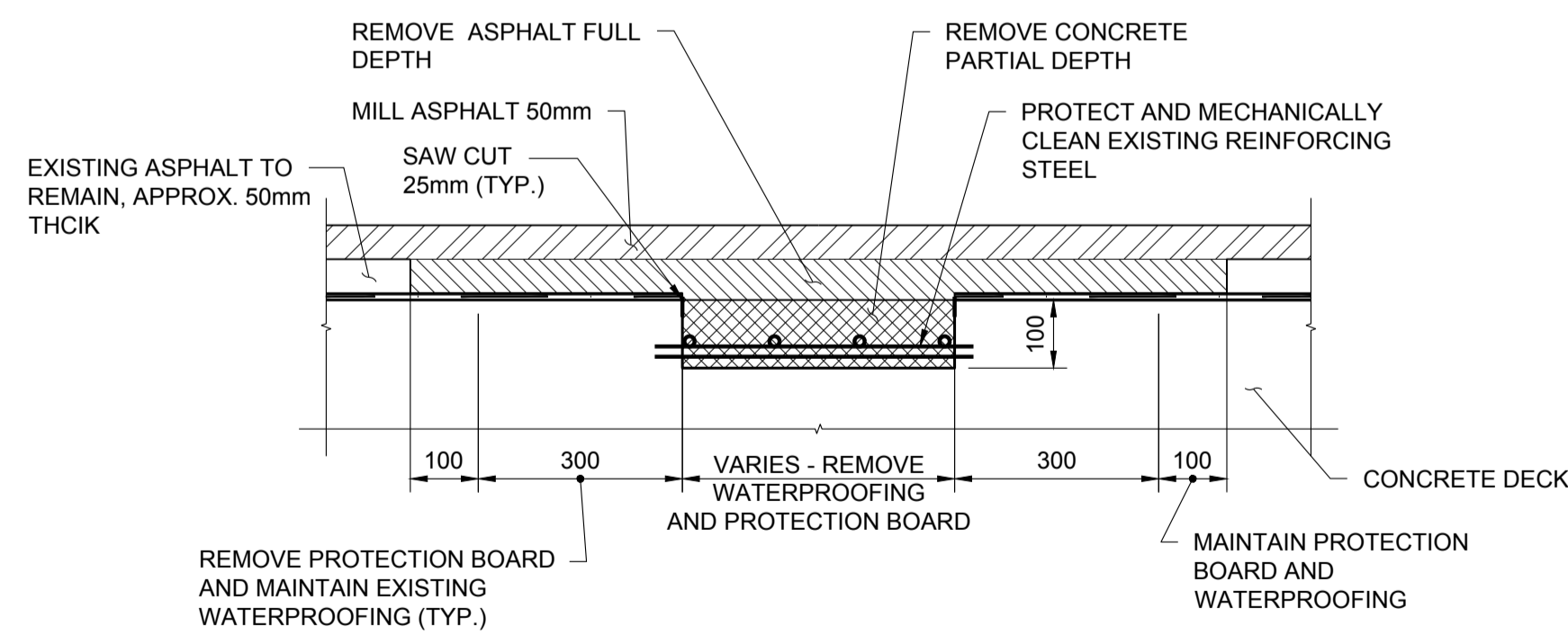
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N.T.S.



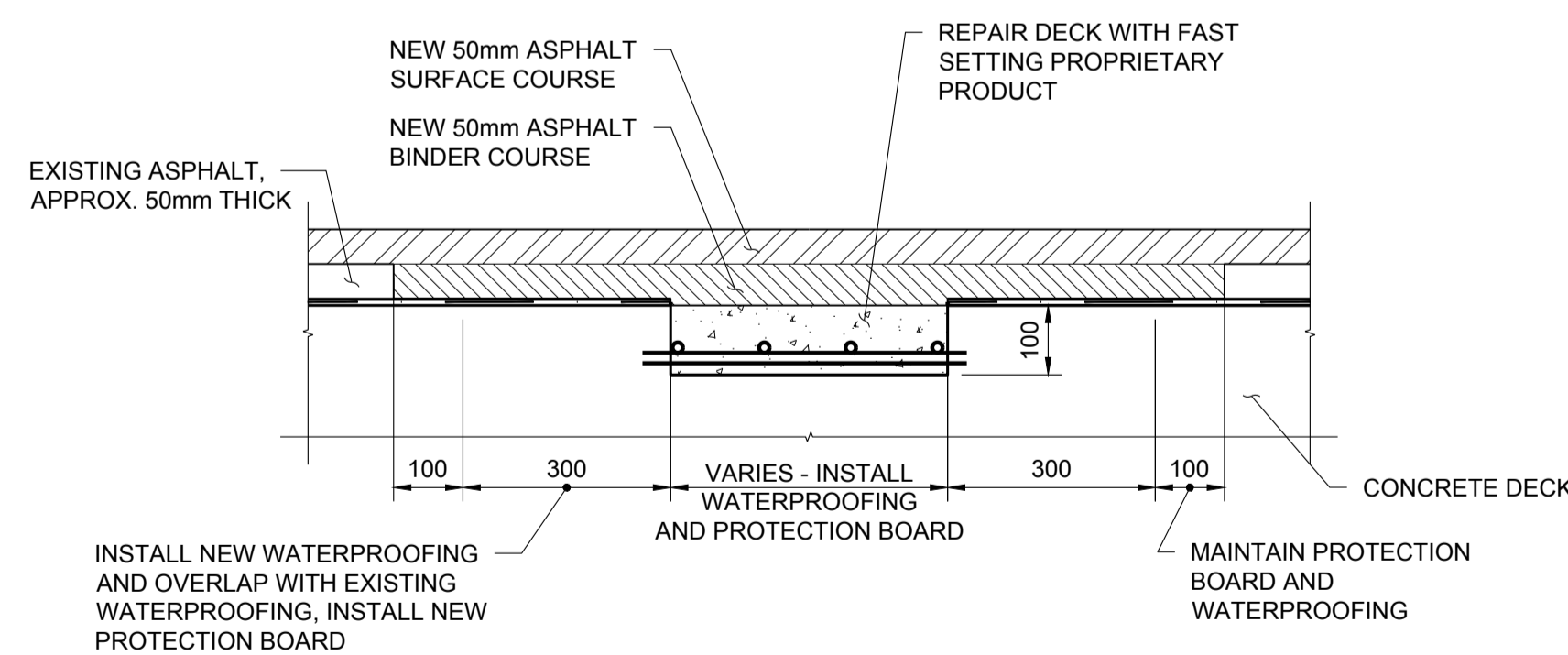
TYPICAL SIDEWALK AND CURB - REMOVALS
1:10



TYPICAL SIDEWALK AND CURB - REPAIRS
1:10



TYPICAL PARTIAL DEPTH CONCRETE - REMOVALS
1:10



TYPICAL PARTIAL DEPTH CONCRETE - REPAIRS
1:10

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 CHECKED BY: M. M. M. M. M.
 DESIGNED BY: M. M. M. M. M.
 APPROVED BY: M. M. M. M. M.
 DATE: Jul 13, 2018 1:27pm

no.	description	date
	ISSUED FOR TENDER	2018/07/13

no.	description	date
	project/projet	

**PORTAGE BRIDGE
 SURFACE REPAIRS**

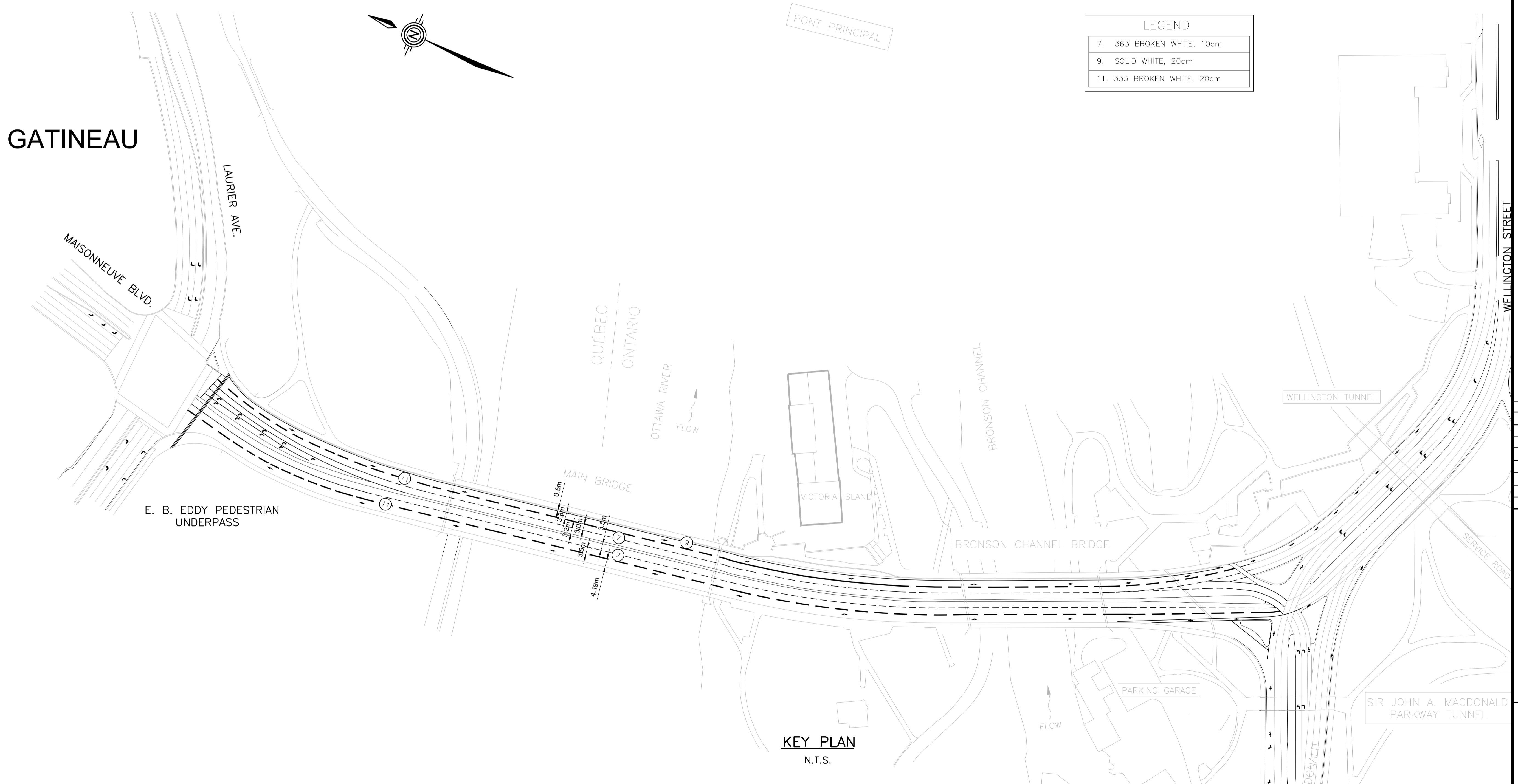
PAVEMENT MARKING

NOTES:

1. CONTRACTOR SHALL INVENTORY ALL LINES TYPES, LOCATION, SYMBOLS, COLOURS AND REPLICATE THESE ON COMPLETED ASPHALT SURFACE, UNLESS AS NOTED.
2. CONTRACTOR SHALL OBLITERATE EXISTING AND INSTALL TEMPORARY PAVEMENT MARKINGS AS REQUIRED FOR TRAFFIC CONTROL PLAN.
3. CONTRACTOR SHALL OBLITERATE TEMPORARY PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS AS WORK PROGRESSES.
4. PAVEMENT MARKINGS IN FINAL LOCATION SHALL BE PLACED AS FINAL COURSE OF ASPHALT IS PLACED.
5. FOLLOWING THE PAVEMENT OF TOP COURSE OF ASPHALT THE SURFACE SHALL BE FREE FROM ANY PAVEMENT MARKING IMPERFECTIONS AND STAINS AND SMUDGES WITH ONLY PERMANENT PAVEMENT MARKINGS VISIBLE.

LEGEND

7.	363 BROKEN WHITE, 10cm
9.	SOLID WHITE, 20cm
11.	333 BROKEN WHITE, 20cm



KEY PLAN
 N.T.S.

GATINEAU

LAURIER AVE.

MAISONNEUVE BLVD.

E. B. EDDY PEDESTRIAN UNDERPASS

MAIN BRIDGE

QUÉBEC
 ONTARIO

OTTAWA RIVER
 FLOW

VICTORIA ISLAND

BRONSON CHANNEL BRIDGE

BRONSON CHANNEL

WELLINGTON TUNNEL

WELLINGTON STREET

PARKING GARAGE

FLOW

SIR JOHN A. MACDONALD PARKWAY TUNNEL

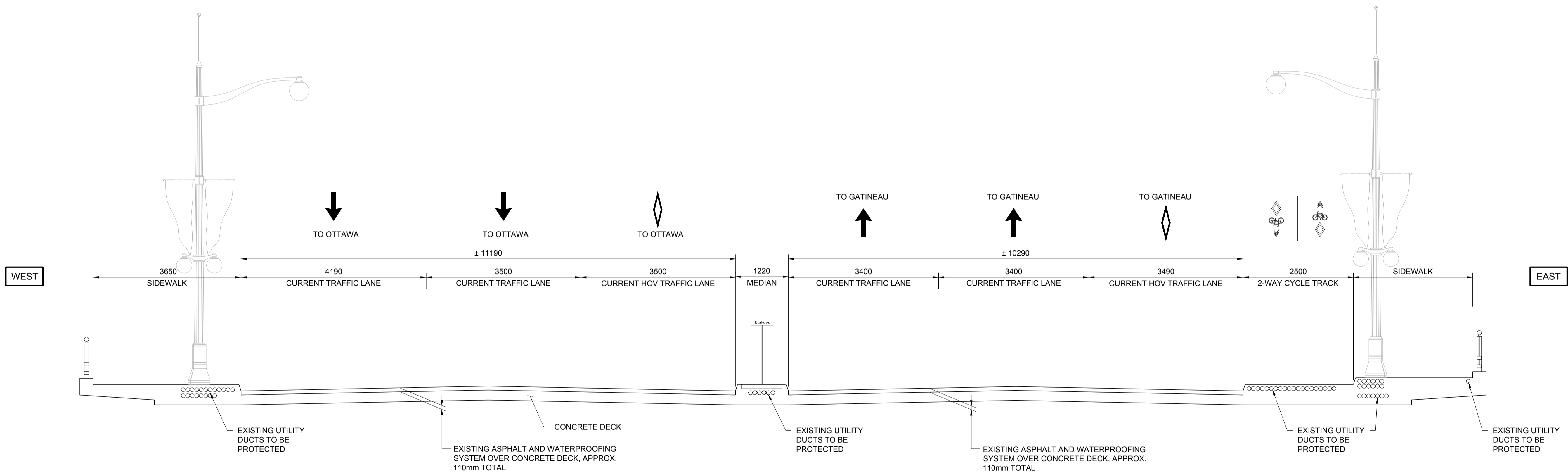
DONALD

SERVICE ROAD

FILENAME: c:\ncc\2018\14_2008-16 Portage Bridge Surface Rehabilitation\3.0 Technical (by discipline)\3.7 Draw-FIG\0105 English version\Contractor #1\14-2008-16_BR_ENC_C1_12.dwg
 PLOTTED: Jul 13, 2018 1:32:27pm
 DRAWN BY: M. K. M.

NOTES:

1. FOR PURPOSE OF SIMPLIFYING THE ISSUE OF UTILITIES THE UTILITY DUCTS ARE SHOWN ON THIS DRAWING ONLY AND THE CONFIGURATION SHOWN IS TO BE ASSUMED FOR THE BRIDGES, PARKING GARAGE AND SECTIONS ON LAND ON THIS PROJECT.
2. CONTRACTOR SHALL CARRY FULL AND COMPLETE UTILITY LOCATES IN ALL AREAS OF WORK AND ALL AREAS THAT WILL AND COULD BE ACCESSED FOR CONSTRUCTION AND CONSTRUCTION OF DEPOT PURPOSES.
3. IN CASE OF AMBIGUITY AND UNCERTAINTY CONTRACTOR SHALL CARRY OUT CAREFUL TRIAL REMOVALS/EXCAVATIONS TO POSITIVELY IDENTIFY THE LOCATION OF THE DUCTS.
4. THE INFORMATION PROVIDED ON THIS DRAWINGS ARE FROM THE 1998 REHABILITATION AND NOT GUARANTEED.
5. THE 1988 REHABILITATION INCLUDED DESIGN CHANGES THAT MAY NOT HAVE BEEN RECORDED PROPERLY.
6. THERE ARE AT LEAST 20 UTILITY DUCTS UNDER THE BICYCLE PORTION OF THE EAST SIDEWALK ON BRIDGES AND THE PARKING GARAGE WITH THE DUCTS IN ONE ROW AND IMMEDIATELY BEHIND TOP REINFORCING STEEL AND ADJACENT TO THE CURB.
7. THERE ARE AT LEAST 8 DUCTS PRESENT AT THE LOWER ORIGINAL PORTION OF ALL THE BRIDGES AND PARKING GARAGE THE BRIDGES UNDER THE PEDESTRIAN PORTION OF THE EAST SIDEWALK.
8. THERE ARE AT LEAST 12 DUCTS IN TWO ROWS ON BRIDGES AND PARKING GARAGE UNDER THE PEDESTRIAN PART OF THE EAST SIDEWALK WITH TOP ROW IMMEDIATELY UNDER THE REINFORCING STEEL AND UNDER THE EXPANSION JOINTS WHERE ELASTOMERIC CONCRETE WAS USED.
9. THERE ARE 6 UTILITY DUCTS IN THE MEDIAN ON BRIDGES AND PARKING GARAGE IN ONE ROW AND IMMEDIATELY BEHIND REINFORCING STEEL AND ADJACENT TO THE CURB.
10. THERE ARE AT LEAST 20 UTILITY DUCTS UNDER THE WEST SIDEWALK ON STRUCTURES AND PARKING GARAGE WITH THE DUCTS IN ONE ROW AND IMMEDIATELY BEHIND TOP REINFORCING STEEL AND ADJACENT TO THE CURB.
11. THERE ARE AT LEAST 8 DUCTS PRESENT AT THE LOWER ORIGINAL PORTION OF THE BRIDGES AND PARKING GARAGE UNDER THE WEST SIDEWALK.
12. THERE ARE DUCTS THROUGHOUT THE CROSSING THAT TRAVERSE THE ROAD BETWEEN SIDEWALKS.
13. ALL THE DUCTS ON STRUCTURES CONTINUE ON LAND AND IN SOME PORTION MAY HAVE BEEN MOVED LOWER TO BE BURIED IN FILL. IT IS UNKNOWN WHETHER CONCRETE WAS USED IN ENCASEMENT OF ANY OF THE DUCTS.
14. UTILITY LOCATES SHALL BE SUPPLEMENTED BY TRIAL REMOVALS AND EXCAVATIONS AS SOON AS CONTRACTOR MOBILIZES TO THE SITE.



TYPICAL UTILITY DUCTS LOCATIONS

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no. description	date

project/projet

**PORTAGE BRIDGE
 SURFACE REPAIRS**

Drawing Title/Titre du dessin

UTILITY DUCTS

approved by approuvé par	Z.F.W.
designed by conçu par	H.L.
drawn by dessiné par	H.L.

date	JULY 2018	scale	échelle	AS
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NCC project no. du projet de la CCN	175	sheet no. no. de la feuille	13
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P:\11-20098-16 BR-BR-ENG-C1-13.dwg
 Drawn by: H.L.
 Checked by: Z.F.W.
 Date: 2018/07/13
 Project: PORTAGE BRIDGE SURFACE REPAIRS
 Drawing Title: UTILITY DUCTS
 Scale: AS
 Sheet: 13 of 175
 AutoCAD 2018
 Plot Date: 2018/07/13

consultant
 expert-conseil



300-2611 QUEENSWAY DRIVE
 OTTAWA (ONTARIO)
 CANADA K2B 8K2
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	ISSUED FOR TENDER	2018/07/13

project/projet

PORTAGE BRIDGE
 SURFACE REPAIRS

Drawing Title/Titre du dessin

SUGGESTED CONSTRUCTION
 STAGING
 STAGE I
 PLAN I

approved by
 approuvé par Z.F.W.

designed by
 conçu par P.H.

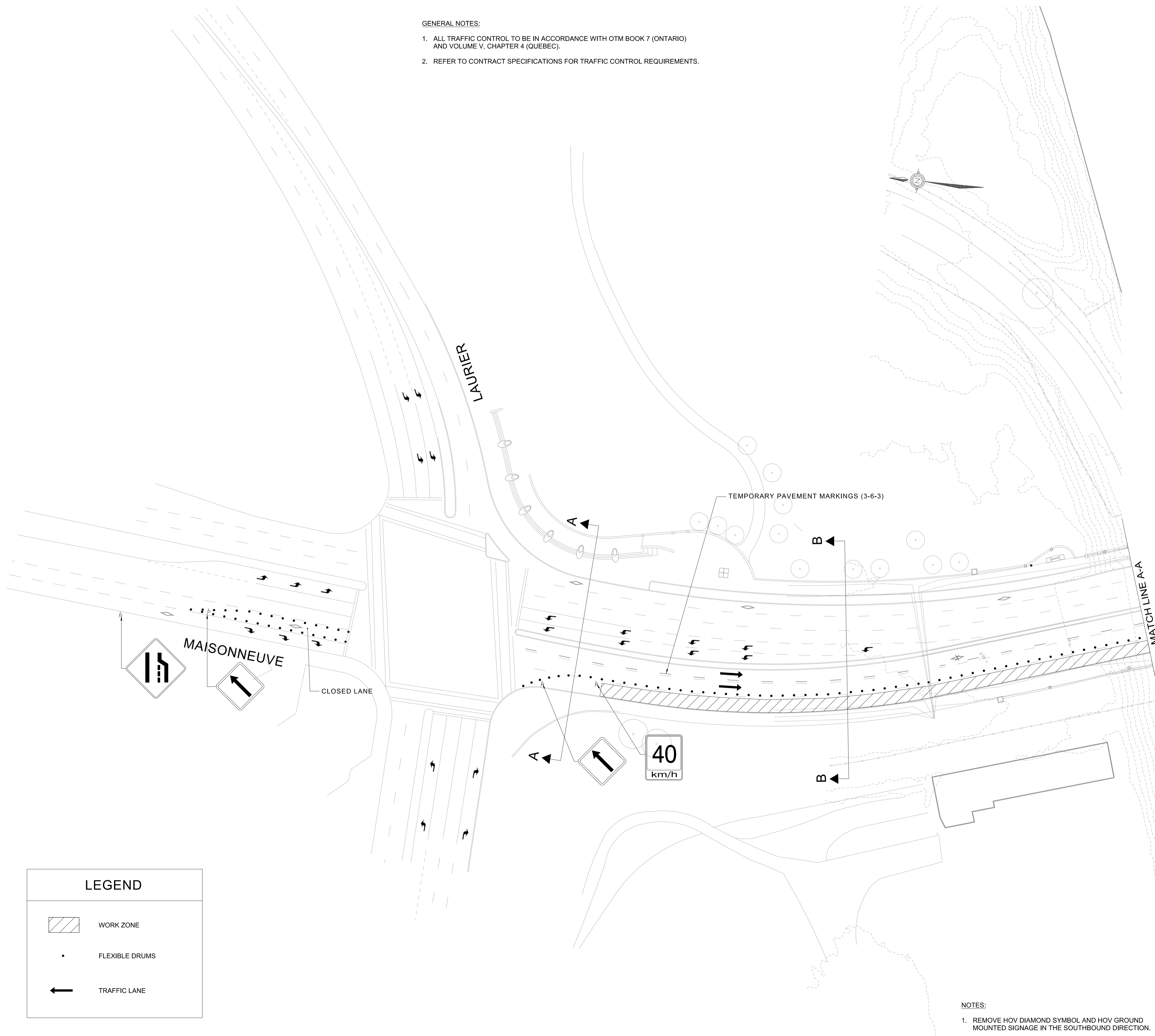
drawn by
 dessiné par M.S.




date JULY 2018 scale 1:500

NCC project no. 175 sheet no. 14
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GENERAL NOTES:

1. ALL TRAFFIC CONTROL TO BE IN ACCORDANCE WITH OTM BOOK 7 (ONTARIO) AND VOLUME V, CHAPTER 4 (QUEBEC).
2. REFER TO CONTRACT SPECIFICATIONS FOR TRAFFIC CONTROL REQUIREMENTS.



LEGEND	
	WORK ZONE
	FLEXIBLE DRUMS
	TRAFFIC LANE

NOTES:

1. REMOVE HOV DIAMOND SYMBOL AND HOV GROUND MOUNTED SIGNAGE IN THE SOUTHBOUND DIRECTION.



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project/projet

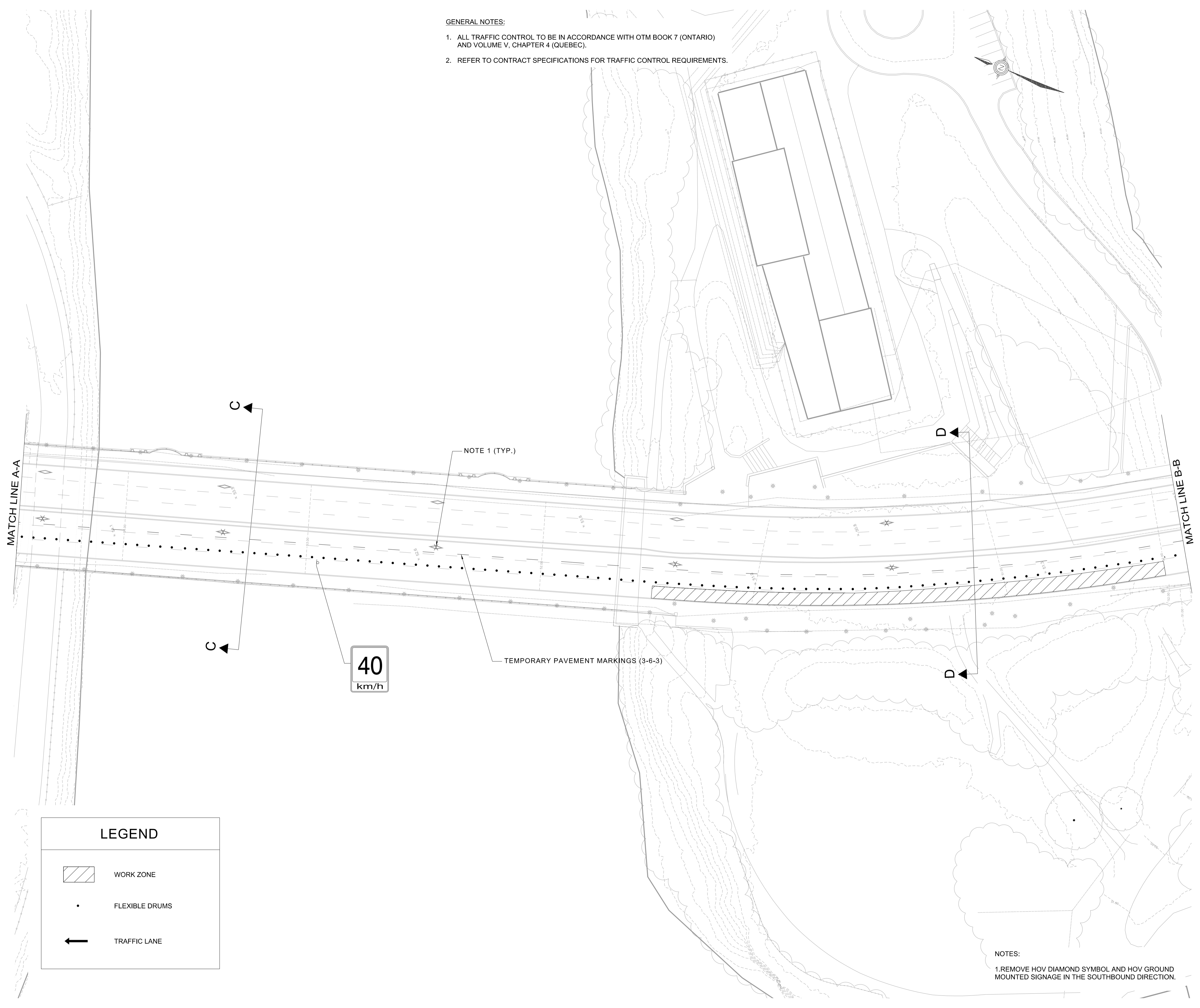
PORTAGE BRIDGE
 SURFACE REPAIRS

Drawing Title/Titre du dessin

SUGGESTED CONSTRUCTION
 STAGING
 STAGE 1
 PLAN 2

approved by approuvé par	Z.F.W.
designed by conçu par	P.H.
drawn by dessiné par	M.S.
date	JULY 2018
scale échelle	1:500

- GENERAL NOTES:
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no.	description
date	

project/projet

PORTAGE BRIDGE
 SURFACE REPAIRS

Drawing Title/Titre du dessin

SUGGESTED CONSTRUCTION
 STAGING
 STAGE 1
 PLAN 3

approved by / approuvé par Z.F.W.

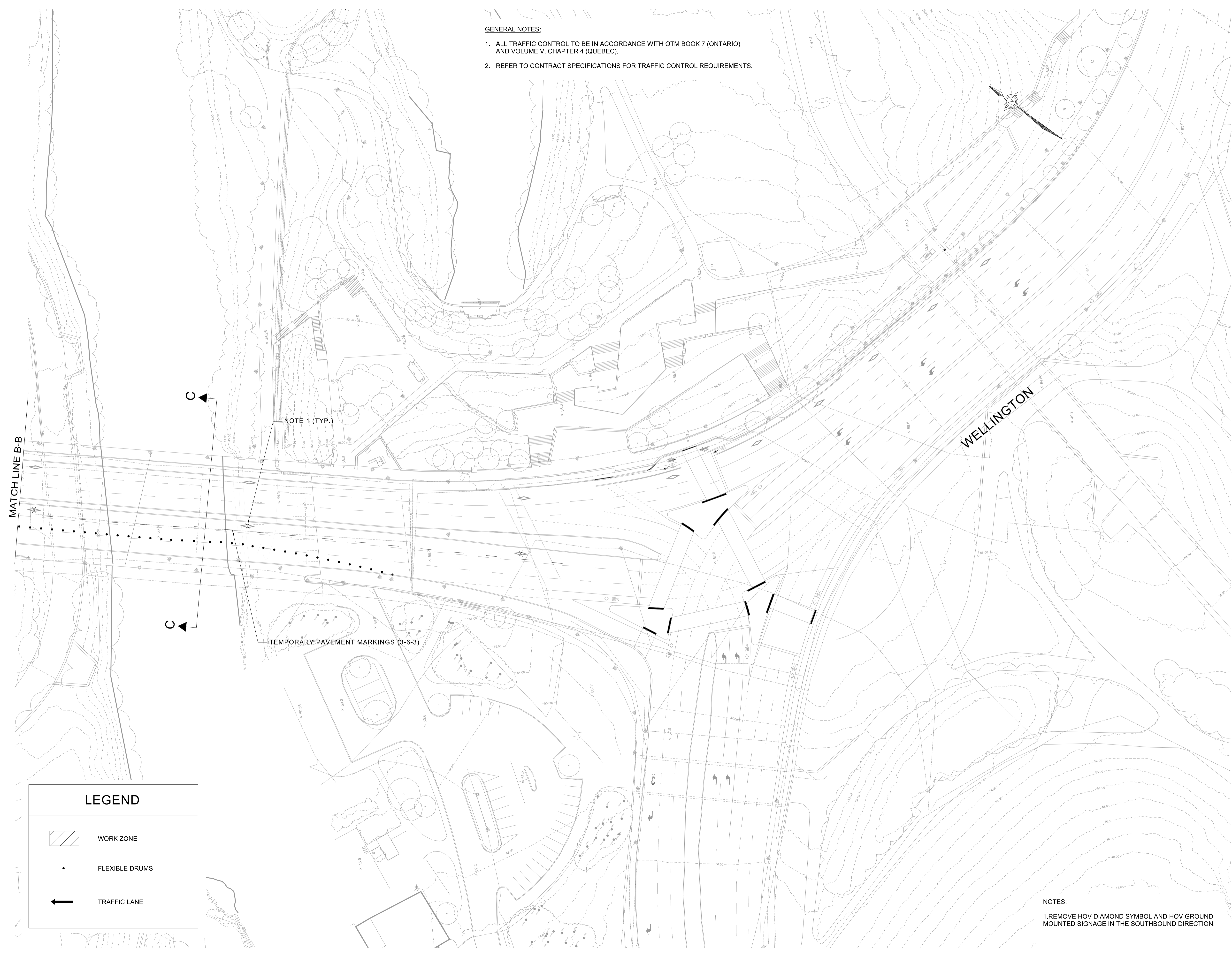
designed by / conçu par P.H.

drawn by / dessiné par M.S.

date JULY 2018 scale échelle 1:500

NCC project no. / sheet no.
 no. du projet de la CCN / no. de la feuille
 175 / 16

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 - REFER TO CONTRACT SPECIFICATIONS FOR TRAFFIC CONTROL REQUIREMENTS.



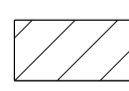


NOTE 1 (TYP.)

TEMPORARY PAVEMENT MARKINGS (3-6-3)

MATCH LINE B-B

WELLINGTON

LEGEND

-  WORK ZONE
-  FLEXIBLE DRUMS
-  TRAFFIC LANE

NOTES:
 1.REMOVE HOV DIAMOND SYMBOL AND HOV GROUND MOUNTED SIGNAGE IN THE SOUTHBOUND DIRECTION.



ISSUED FOR TENDER		2018/07/13
no.	description	date

project/projet

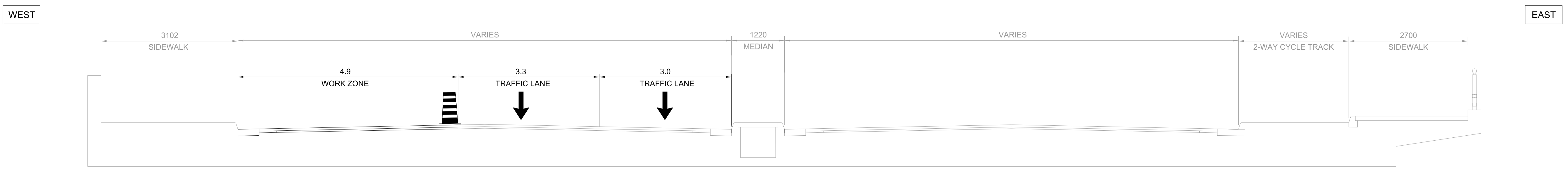
**PORTAGE BRIDGE
SURFACE REPAIRS**

Drawing Title/Titre du dessin

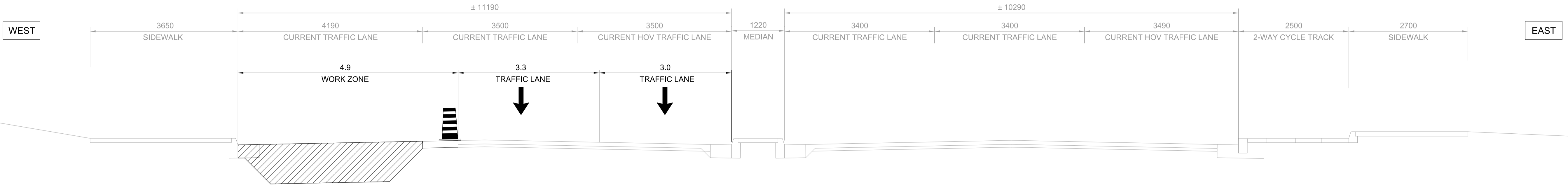
**SUGGESTED CONSTRUCTION
STAGING
STAGE 1 TYPICAL
SECTIONS**

approved by approuvé par	Z.F.W.
designed by conçu par	P.H.
drawn by dessiné par	M.S.
date	JULY 2018
scale échelle	N.T.S.

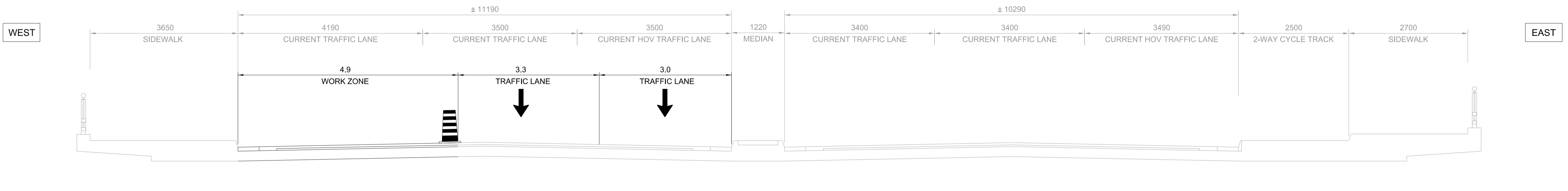
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sheet no. no. de la feuille	17



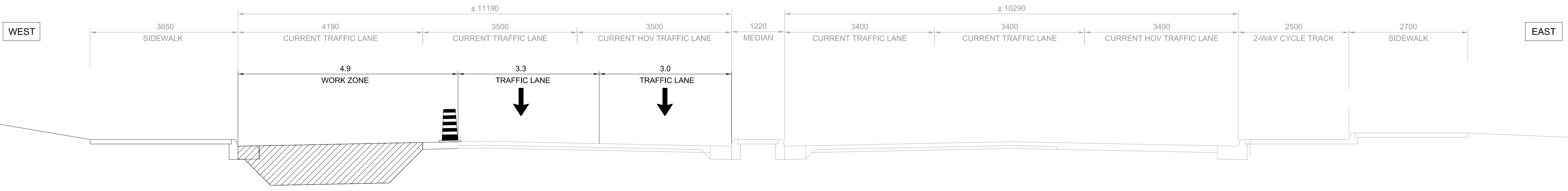
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

consultant
 expert-conseil



300-2611 QUEENSWAY DRIVE
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PORTAGE BRIDGE
 SURFACE REPAIRS

Drawing Title/Titre du dessin

SUGGESTED CONSTRUCTION
 STAGING
 STAGE 2
 PLAN 1

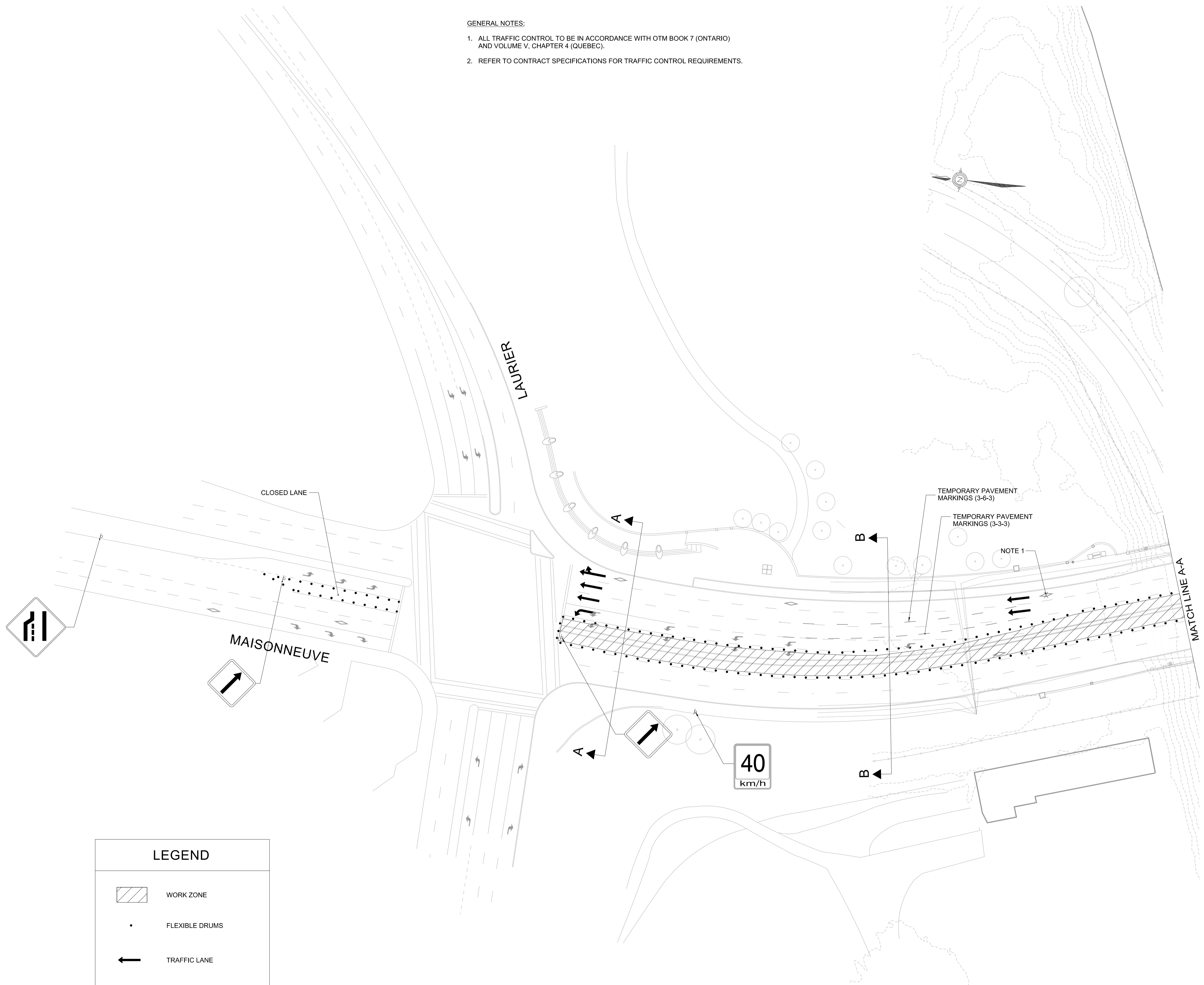
approved by / approuvé par: Z.F.W.
 designed by / conçu par: P.H.
 drawn by / dessiné par: M.S.

date: JULY 2018 scale: 1:500

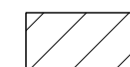


NCC project no. / no. du projet de la CCN: 175
 sheet no. / no. de la feuille: 18

GENERAL NOTES:

1. ALL TRAFFIC CONTROL TO BE IN ACCORDANCE WITH OTM BOOK 7 (ONTARIO) AND VOLUME V, CHAPTER 4 (QUEBEC).
2. REFER TO CONTRACT SPECIFICATIONS FOR TRAFFIC CONTROL REQUIREMENTS.



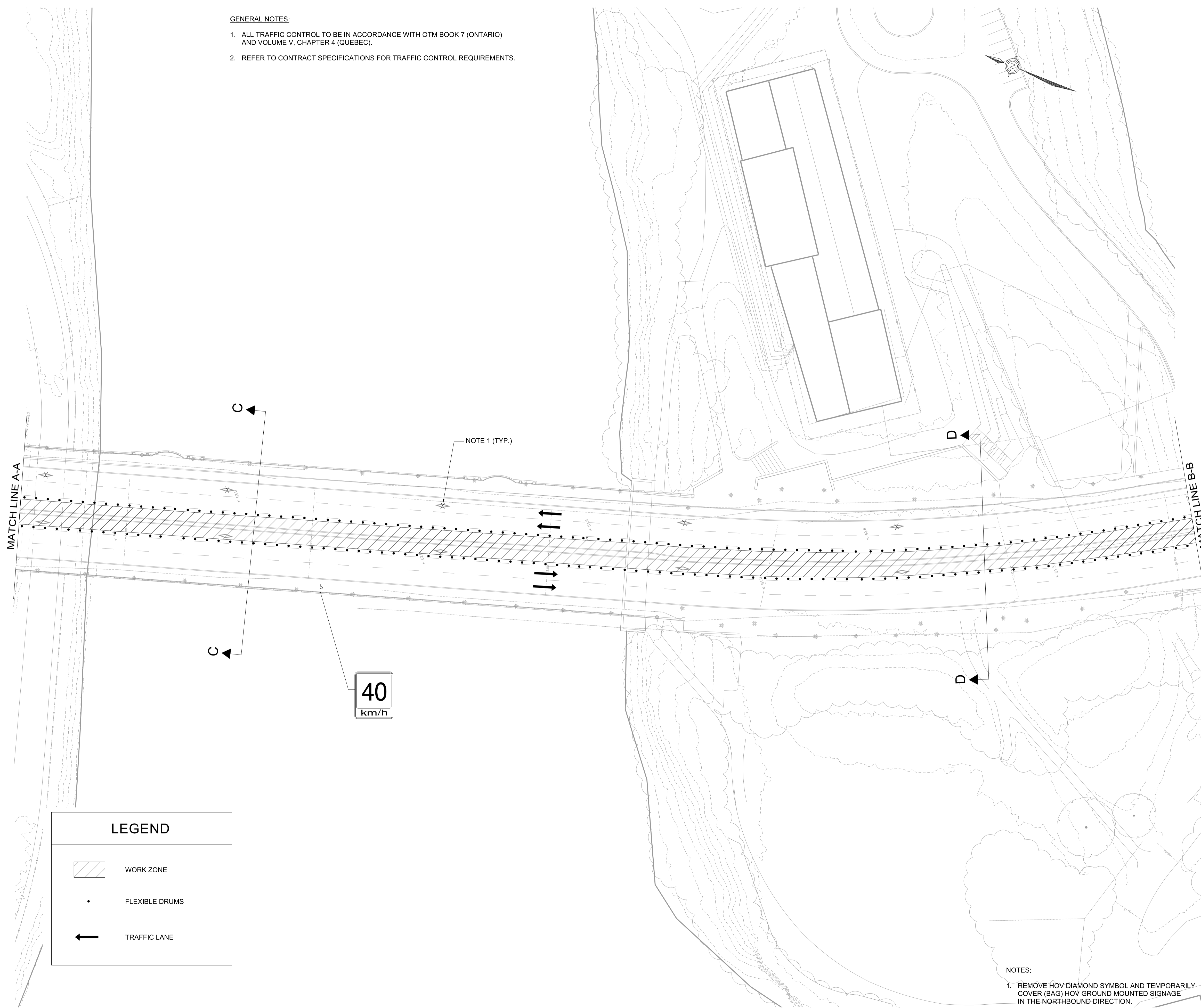
LEGEND

-  WORK ZONE
-  FLEXIBLE DRUMS
-  TRAFFIC LANE

- NOTES:
1. REMOVE HOV DIAMOND SYMBOL AND TEMPORARILY COVER (BAG) HOV GROUND MOUNTED SIGNAGE IN THE NORTHBOUND DIRECTION.

no.	description	date
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- GENERAL NOTES:
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NOTE 1 (TYP.)

40
km/h

LEGEND

- WORK ZONE
- FLEXIBLE DRUMS
- TRAFFIC LANE

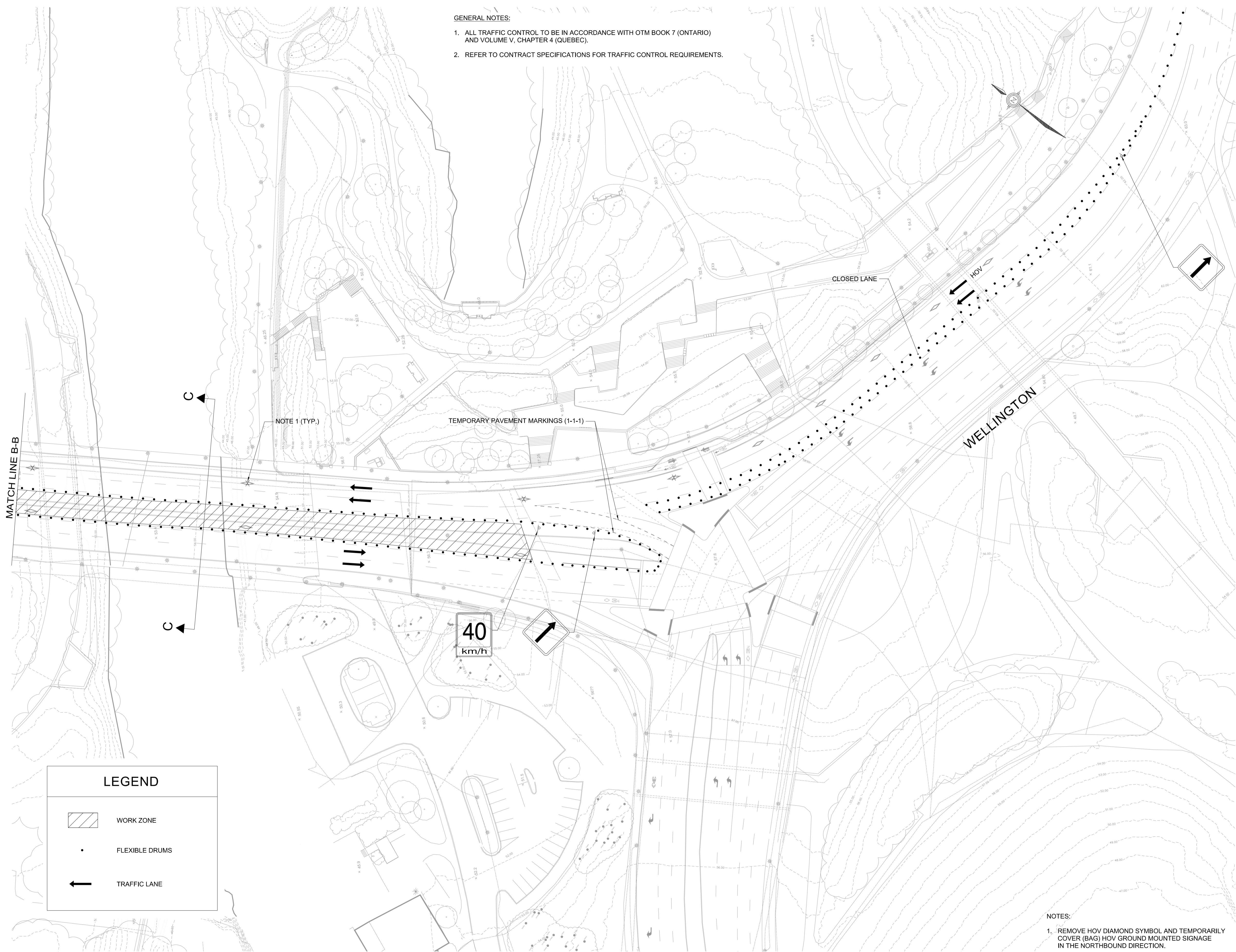
NOTES:

1. REMOVE HOV DIAMOND SYMBOL AND TEMPORARILY COVER (BAG) HOV GROUND MOUNTED SIGNAGE IN THE NORTHBOUND DIRECTION.

no.	description	date
	ISSUED FOR TENDER	2018/07/13

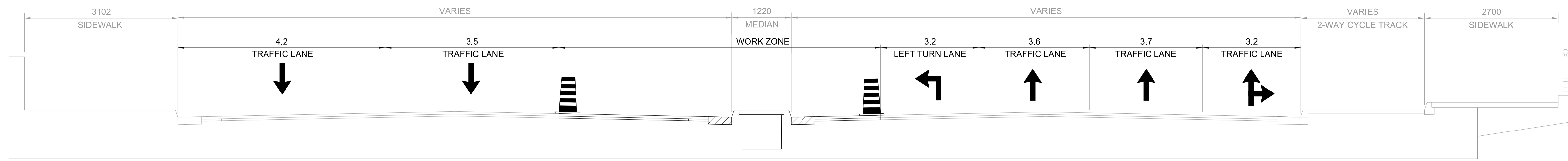
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WEST

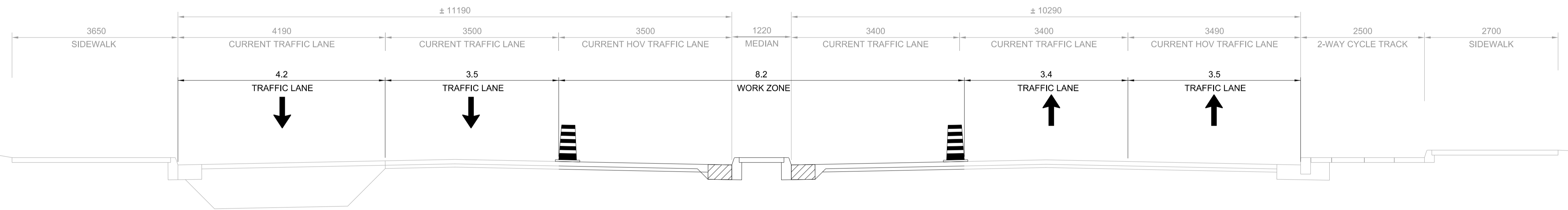
EAST



SECTION A-A

WEST

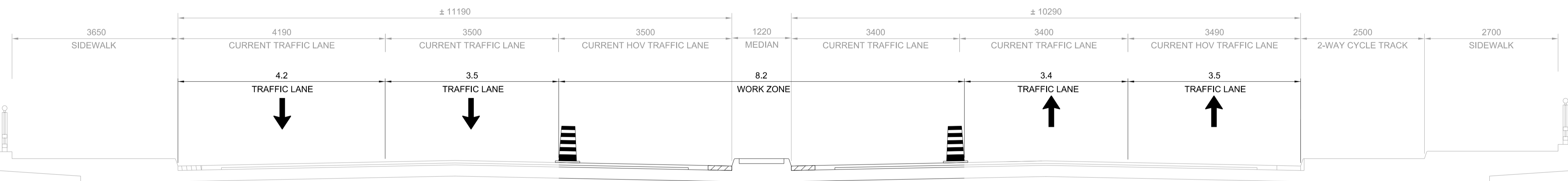
EAST



SECTION B-B

WEST

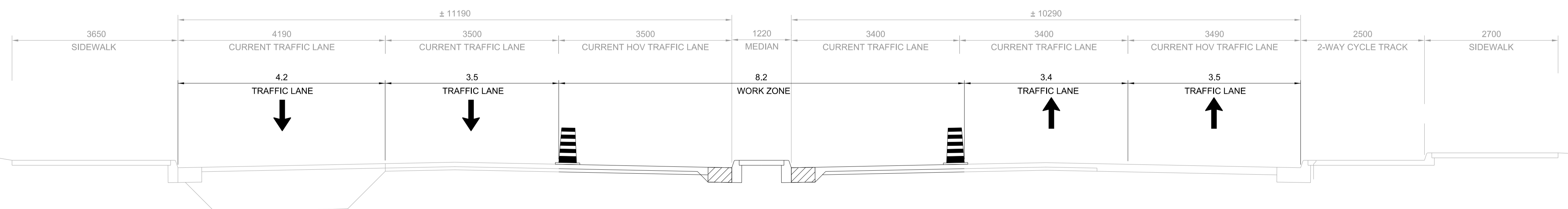
EAST



SECTION C-C

WEST

EAST



SECTION D-D



Capital Planning and Real Asset Management Branch
 Direction de l'aménagement de la capitale et gestion de l'immobilier

Design and Construction Division
 Division design et construction
 director - Claude Robert - directeur

consultant
 expert-conseil



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project/projet

PORTAGE BRIDGE
 SURFACE REPAIRS

Drawing Title/Titre du dessin

SUGGESTED CONSTRUCTION
 STAGING
 STAGE 2 TYPICAL
 SECTIONS

approved by
 approuvé par Z.F.W.

designed by
 conçu par P.H.

drawn by
 dessiné par M.S.

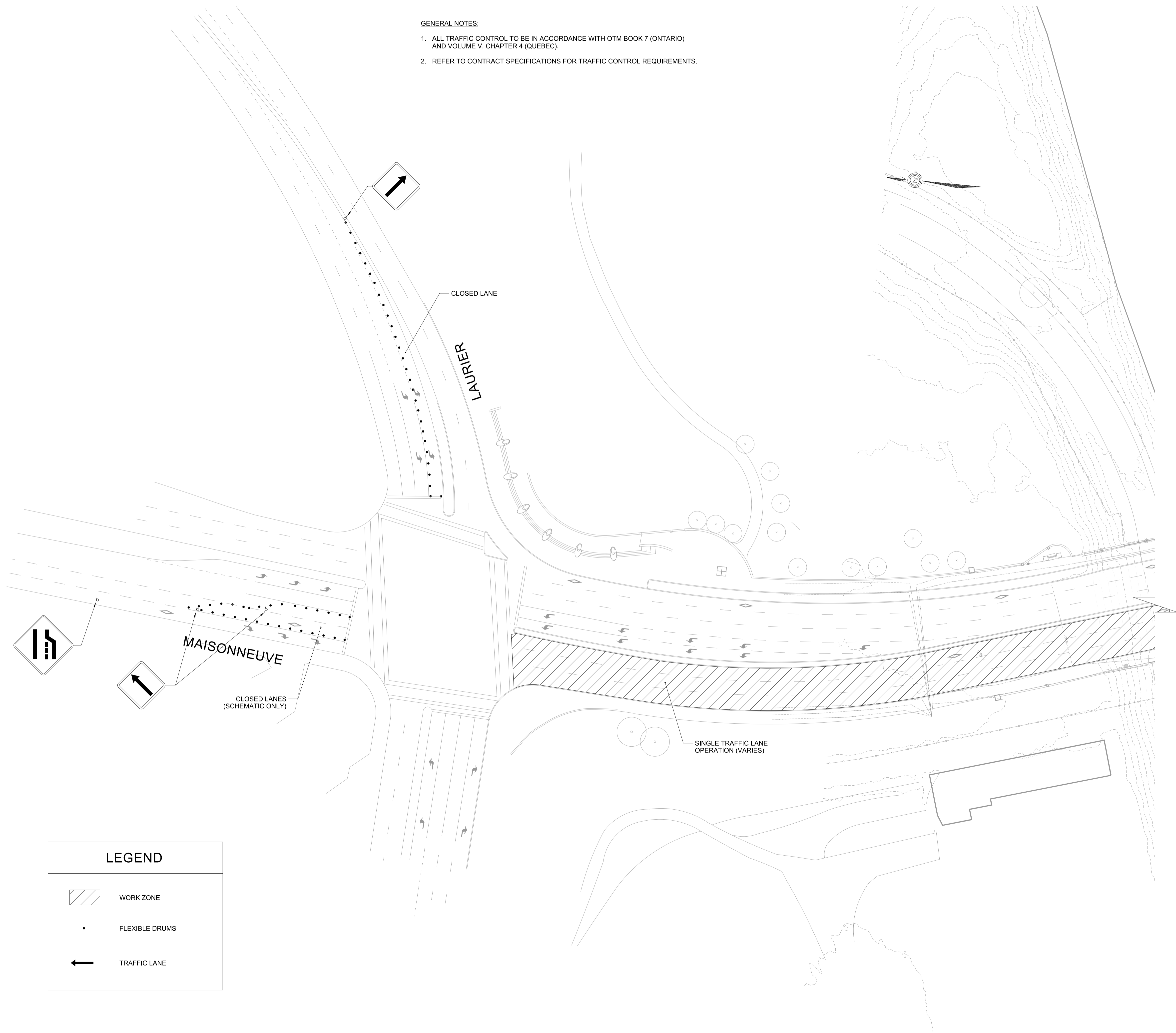
date JULY 2018 scale N.T.S.
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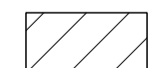


175

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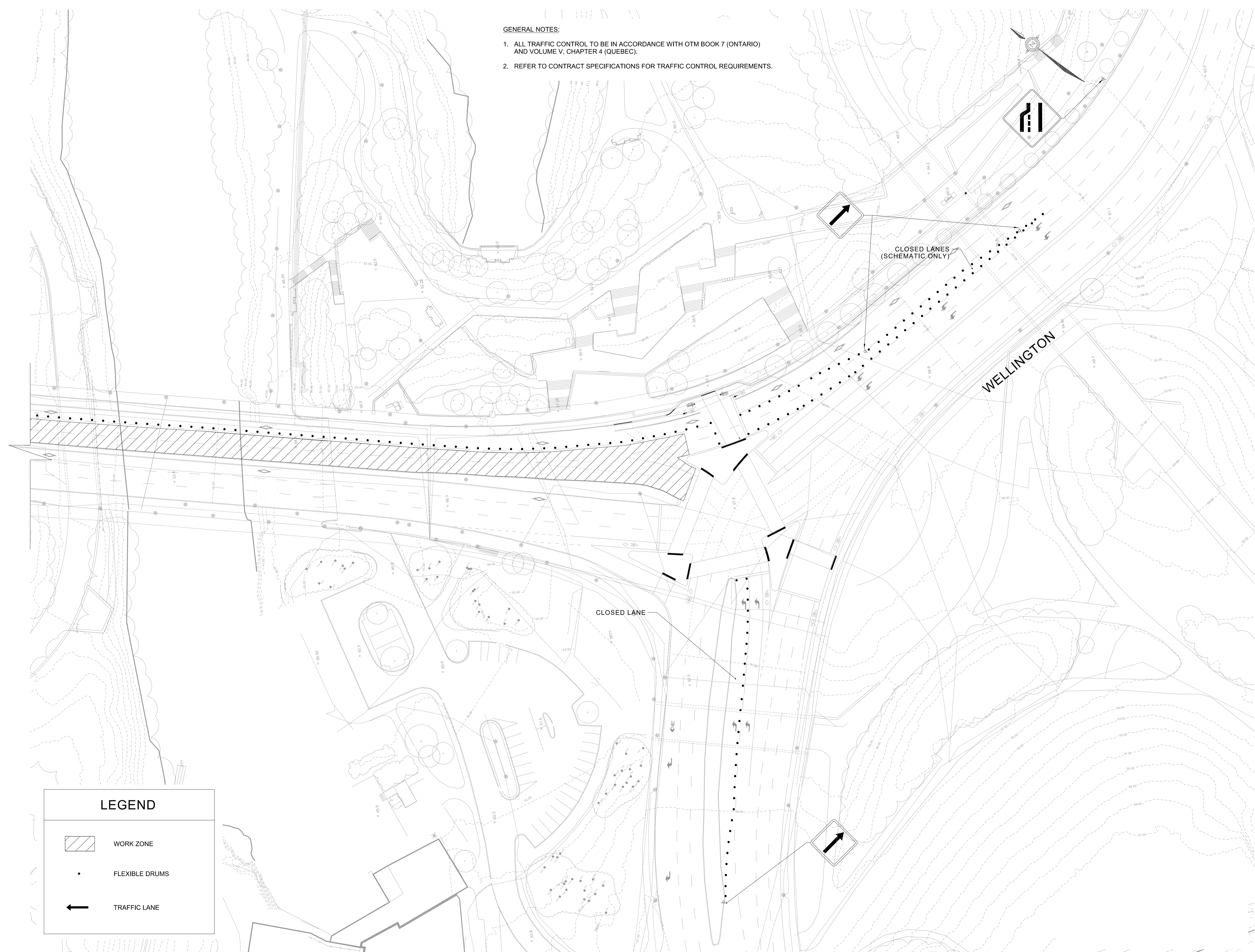
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LEGEND

-  WORK ZONE
-  FLEXIBLE DRUMS
-  TRAFFIC LANE

- GENERAL NOTES:
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project/projet

PORTAGE BRIDGE
 SURFACE REPAIRS

Drawing Title/Titre du dessin

SUGGESTED CONSTRUCTION
 STAGING
 STAGE 3
 NORTHBOUND

approved by / approuvé par: Z.F.W.

designed by / conçu par: P.H.

drawn by / dessiné par: M.S.

date: JULY 2018 scale: 1:500