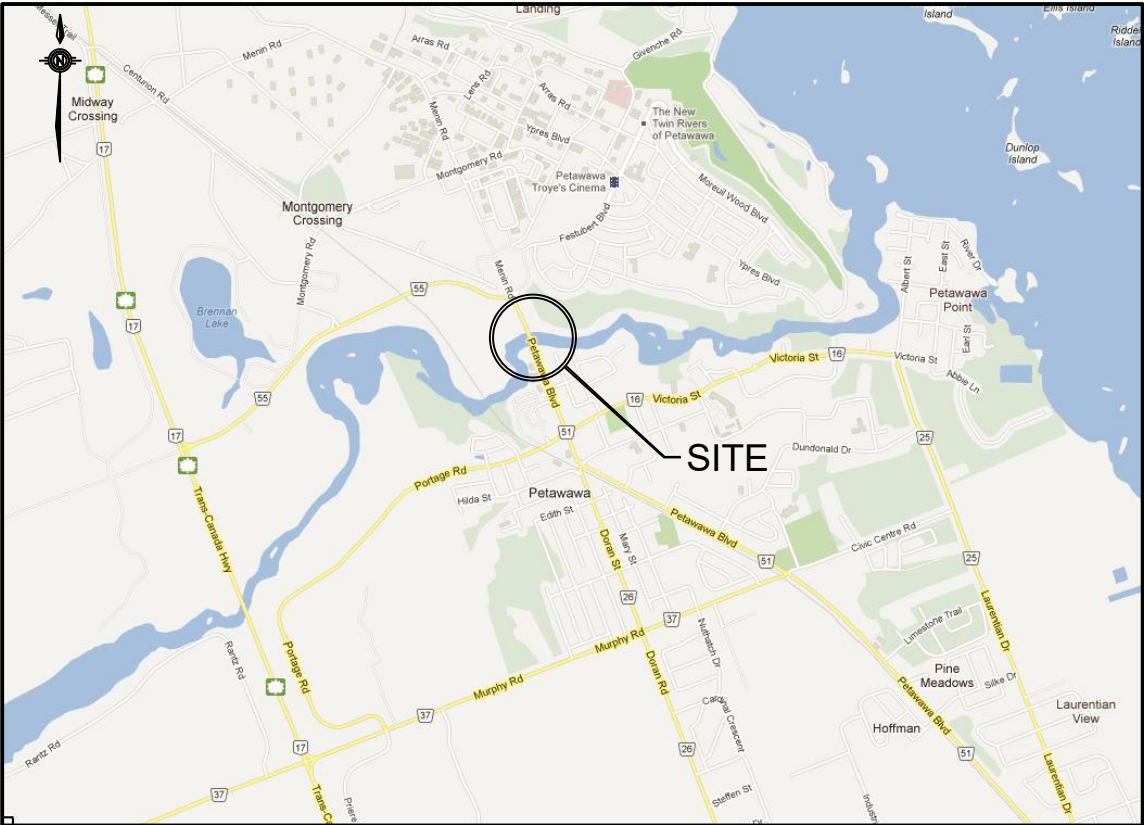


THE CORPORATION OF THE COUNTY OF RENFREW



LEE PERKINS, MBA, C.E.T.
DIRECTOR OF PUBLIC WORKS AND ENGINEERING



LIST OF DRAWING

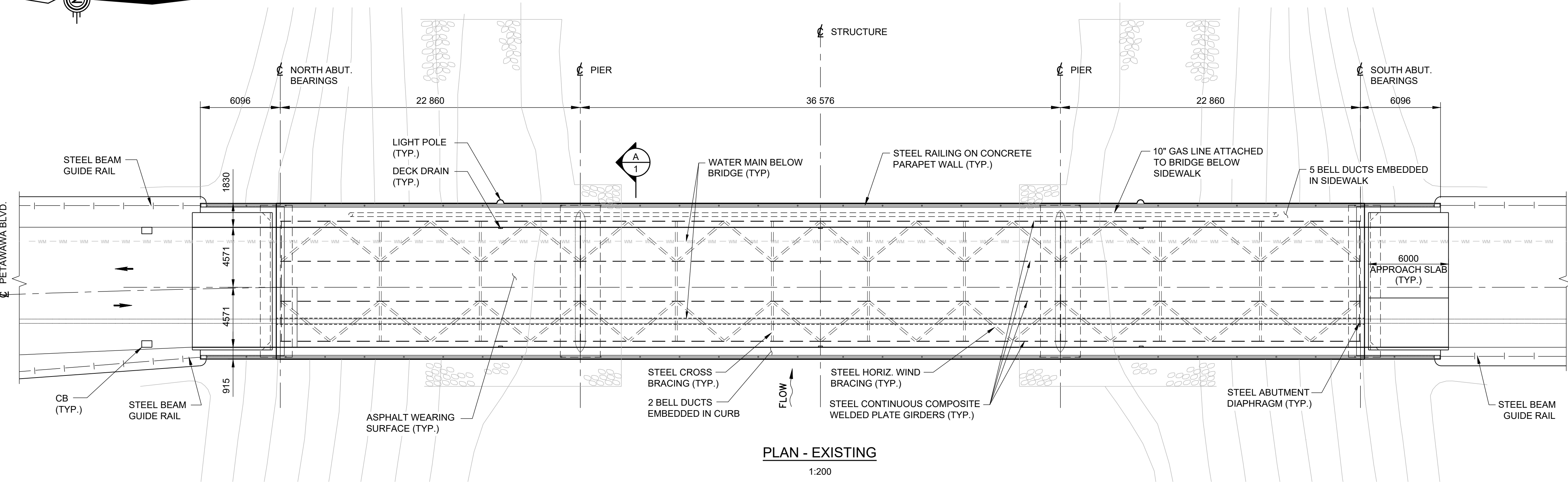
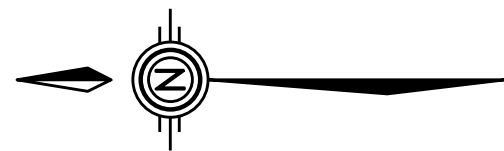
Drawing Number	Sheet Title
00	COVER SHEET
01	GENERAL ARRANGEMENT
02	GENERAL NOTES
03	COMPOSITE UTILITY PLAN EXISTING
04	STRUCTURAL PRE-STAGE 1
05	STRUCTURAL STAGE 1
06	STRUCTURAL STAGE 2
07	ABUTMENT REMOVALS
08	ABUTMENT REMOVALS - DETAILS
09	ABUTMENT RECONSTRUCTION
10	ABUTMENT RECONSTRUCTION - DETAILS
11	ABUTMENT REINFORCING
12	ABUTMENT SHEAR KEY
13	DECK REMOVALS
14	DECK REMOVALS - DETAILS
15	DECK RECONSTRUCTION
16	DECK RECONSTRUCTION DETAILS
17	DECK REINFORCING
18	APPROACH SLAB RECONSTRUCTION
19	STRIP SEAL EXPANSION JOINT TYPE C DETAILS
20	STRIP SEAL EXPANSION JOINT ASSEMBLY FOR PARAPET WALL
21	TRAFFIC RAILING
22	DETAILS - CONCRETE REPAIRS
23	STRUCTURAL STEEL REPAIRS COATING AND BEARING REFURBISHMENT DETAIL
24	CONTROL JOINT AND ASPHALT JOINT DETAILS
25	WATERMAIN SUPPORT DETAILS
26	DECK DRAIN
R-02	ROADWAY CONSTRUCTION STAGE 1
R-03	ROADWAY CONSTRUCTION STAGE 2
R-04	ROADWAY CONSTRUCTION - REMOVALS
R-05	ROADWAY CONSTRUCTION - NEW
R-06	ROADWAY CONSTRUCTION PAVEMENT MARKING

REHABILITATION OF B-203 (PETAWAWA RIVER BRIDGE)

COUNTY ROAD 51 (PETAWAWA BOULEVARD)
TOWN OF PETAWAWA

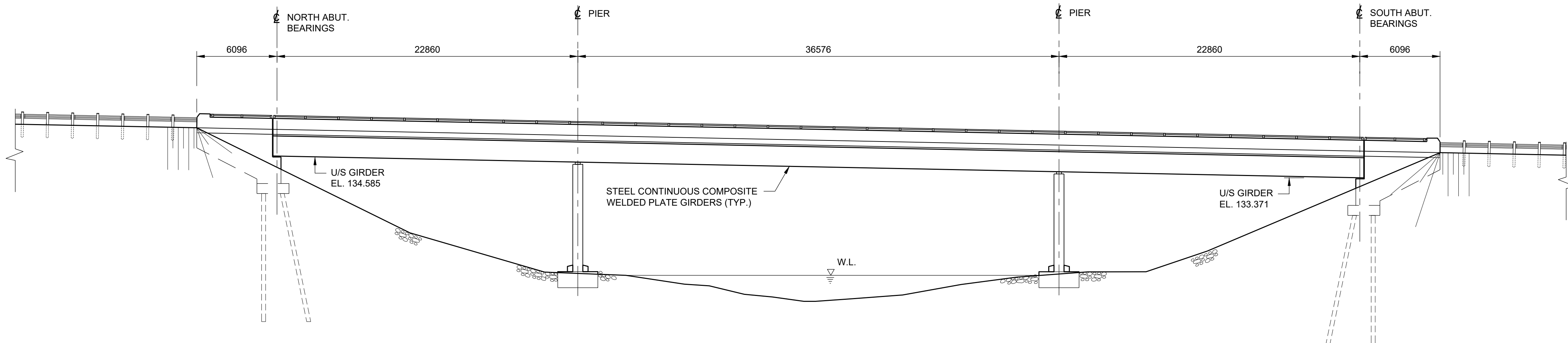
CONTRACT No. PWC 2021-56





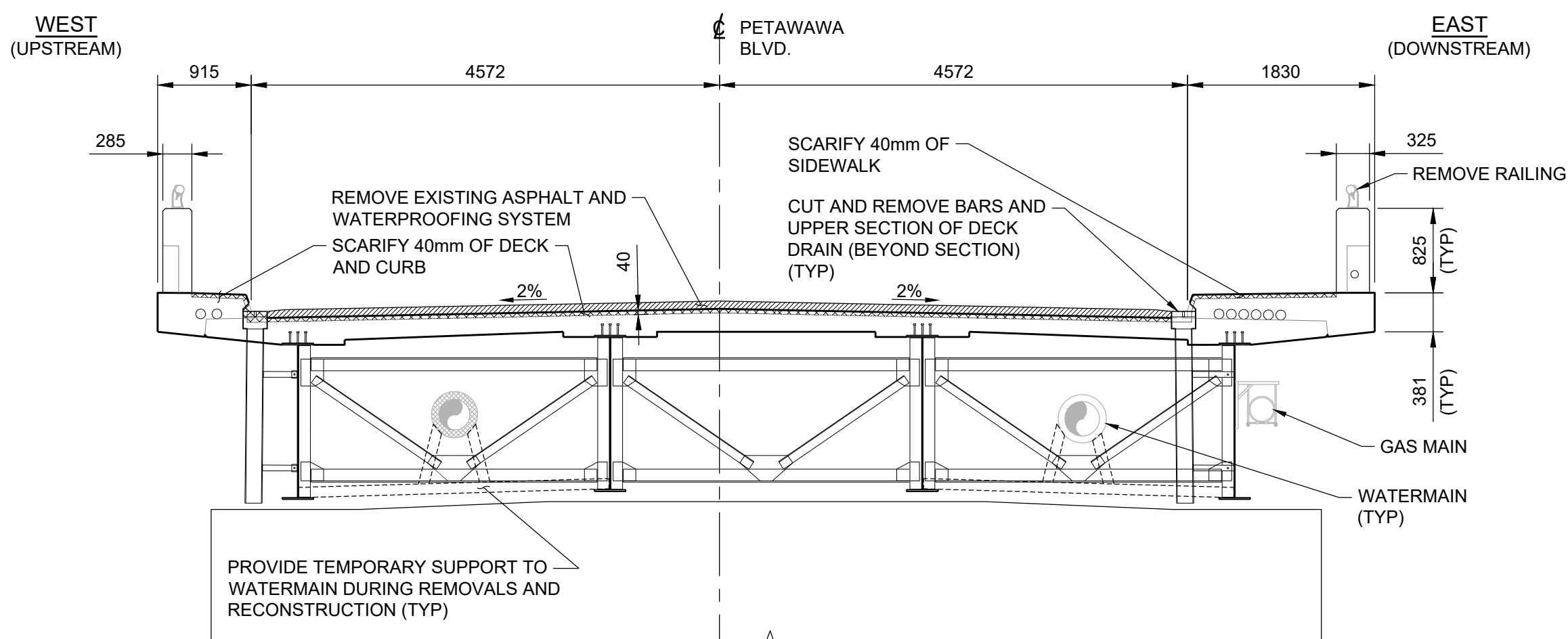
PLAN - EXISTING

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WEST ELEVATION - EXISTING

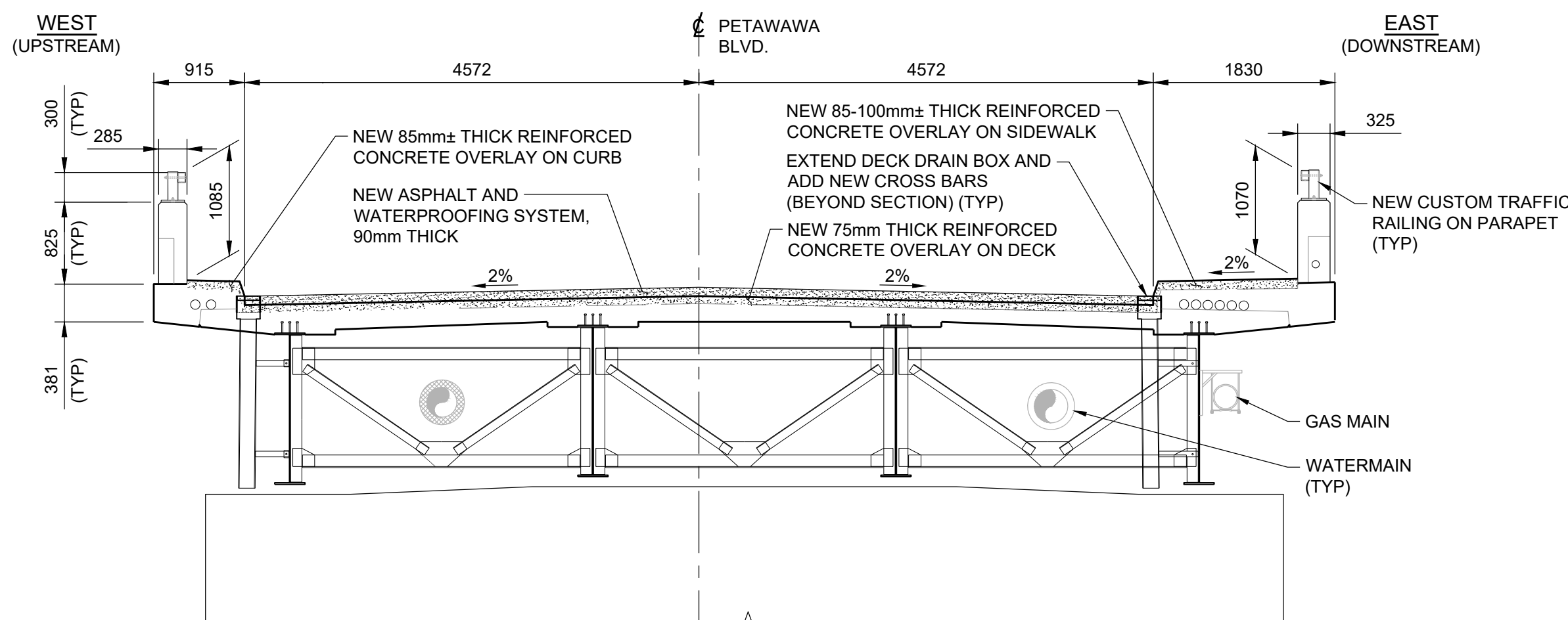
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SECTION A
1

- REMOVALS -

1:50



SECTION A
1

- RECONSTRUCTED -

1:50

GENERAL NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- FOR GENERAL NOTES, SCOPE OF WORK, UTILITIES AND TRAFFIC CONTROL NOTES SEE DRAWING 02.



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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

GENERAL ARRANGEMENT

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 01
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Renov\SHEETS\211-13633-00_BRG_01-02_GA.dwg
PLOTDATE: Mar 04, 2022 - 9:20am
DRAWN BY: Momen Adnan

GENERAL NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- 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 ± 20mm, UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL BE GRADE 400 W. THE PREFIX 'G' DENOTES GALVANIZED REINFORCING, THE PREFIX 'S' DENOTES STAINLESS STEEL REINFORCING. WHERE GALVANIZED REINFORCING STEEL IS SPECIFIED, IT CAN BE REPLACED WITH STAINLESS STEEL.
- NO BLACK REINFORCING STEEL OR BLACK WELDED WIRE FABRIC ARE PERMITTED ON THIS CONTRACT, UNLESS NOTED IN STANDARD OR OPSD DRAWING.
- 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 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. UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION PROCEDURES AND MATERIALS SHALL BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARDS. ALL MATERIALS SUPPLIED SHALL BE FROM MTO DESIGNATED SOURCES, WHERE APPLICABLE.
- ALL DIMENSIONS ARE IN MILLIMETERS.
- DO NOT SCALE DRAWINGS.
- DESIGN LOADS CHBDC, NO LOAD POSTING REQUIRED.
- THE 'SCOPE OF WORK', AS PROVIDED ON THIS DRAWING, IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS EXHAUSTIVE.
- COUNTY MAY SPEED POST THE ROAD FOR CONSTRUCTION. CONTRATOR TO ASSUME THAT ADVISORY SPEED LIMITS OF 30KM/H THROUGH THE CONSTRUCTION ZONE WILL BE REQUIRED.
- IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS PER LEGISLATIVE REQUIREMENTS AND SPECIFIC MEASURES REQUESTED BY MNRF.
- IMPLEMENT ADDITIONAL MITIGATION MEASURES, CONTROL AND MONITORING PLAN FOR ENDANGERED AND SPECIES AT RISKS AS PER APPLICABLE LEGISLATION AND SEPARATE MNRF REQUIREMENTS. MAINTAIN THE MEASUREMENT THAT COUNTY INSTALLED PRIOR TO WORK IF APPLICABLE.
- MAINTAIN DRAINAGE ON THE STRUCTURE AT ALL TIMES DURING CONSTRUCTION AND PREVENT RUN OFF WITH SEDIMENT REACHING WATERWAY. ASSURE THAT ANY SEDIMENTS AND PARTICLES ARE EXTRACTED FROM RUN OFF BEFORE IT IS ALLOWED TO BE DISCHARGED INTO THE WATERWAY.
- ALL ELEVATIONS SHOWN ON DRAWINGS ARE FROM ORIGINAL 1972 DRAWINGS AND ARE RELATED TO EACH OTHER, BUT ARE NOT GEODETIC.
- TELECOMMUNICATION CABLES ARE PRESENT IN THE DUCTS IN EAST SIDEWALK AND WEST CURB. SEE SEPARATE UTILITY NOTES.
- HYDRO HIGH VOLTAGE CABLES ARE PRESENT IN WEST SIDEWALK. SEE SEPARATE UTILITY NOTES.
- THE WORK ON WATERMAIN SHALL BE COORDINATED WITH UTILITY DEPARTMENT OF THE TOWN OF PETAWAWA THE TOWN IS THE OWNER AND OPERATOR OF THE WATERMAIN.
- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES
- THE WORK WILL REQUIRE A PROTECTION SYSTEM THAT WILL NEED TO BE INSTALLED IN PRE-STAGE AND BE SUITABLE FOR BOTH STAGES OF WORK.
- CONTRACTOR SHALL REVIEW ORIGINAL CONTRACT DRAWINGS AND 2012 REHABILITATION DRAWINGS FRO PURPOSE OF PLANNING THE METHODOLOGY.
- WATERMAIN ANCHORS INSTALLED IN 2012 WILL INTERFERE WITH SCARIFICATION AND SCARIFICATION BY HAD WILL BE REQUIRED. REFER TO 2012 CONTRACT DRAWINGS.

CONSTRUCTION NOTES

- THE WOODEN POLES, TEMPORARY TRAFFIC SIGNALS AND INFRASTRUCTURE WILL BE INSTALLED BY OTHERS PRIOR TO WORK BY CONTRACTOR AND ENERGIZE AND PUT IN SERVICE IMMEDIATELY PRIOR TO STAGING IMPLEMENTATION AND TEMPORARY CONCRETE BARRIERS INSTALLATION.
- THE TEMPORARY TRAFFIC SIGNALS, INFRASTRUCTURE AND WOODEN POLES WILL BE REMOVED BY OTHERS WHEN NO LONGER REQUIRED.
- THE SCOPE OF WORK IS NOT NECESSARILY IN ORDER OF OPERATIONS.
- THE ROADWAY PROTECTION AT THE APPROACHES WILL REMAIN AND LEFT IN PLACE.
- SCARIFICATION OF SIDEWALK AND SAFETY CURB WILL NEED TO BE CARRIED OUT BY BELL APPROVED CONTRACTOR AS THE WORK WILL BE OVER UTILITIES EMBEDDED IN CONCRETE THAT WILL NEED TO BE MAINTAINED IN SERVICE.
- THE INSTALLATION OF GUARDRAIL POSTS ON APPROACHES WILL REQUIRE USE OF HYDROVAC TO ELIMINATE POSSIBILITY OF DAMAGE TO UTILITIES.
- THE TWO WATERMAINS UNDER THE BRIDGE SHALL BE PROTECTED AT ALL TIMES AND REMAIN IN SERVICE. SUPPORT STRUCTURES ARE REQUIRED UNDER THE BRIDGE PRIOR TO WORK ON THE ASPHALT.
- THE GAS INSTALLATION UNDER THE WEST SIDE OVERHANG TO BE PROTECTED AT ALL TIMES.
- THE TWO WATERMAINS BURIED IN FILL UNDER THE APPROACH SLABS TO BE PROTECTED AT ALL TIMES AND FULLY SUPPORTED IN FILL
- THE BELL DUCTS UNDER EAST SIDEWALK ON APPROACHES ARE IN CONCRETE ENCASED DUCT BANK THAT WILL NEED TO BE SUPPORTED.
- ALL UTILITIES SHALL BE LOCATED AND IDENTIFIED ON SITE.
- IT IS IMPERATIVE THAT THE TOP OF ASPHALT MATCHES PERFECTLY THE TOP OF CONCRETE ALONG EXPANSION JOINTS.

SCOPE OF WORK:

- INSTALL EROSIONS AND SEDIMENT CONTROL SYSTEM
- INSTALL TEMPORARY TRAFFIC SIGNALS ON WOODEN POLES ON EACH APPROACH (BY OTHERS)
- INSTALL ROADWAY PROTECTION SYSTEMS AT EACH END OF THE BRIDGE UTILIZING SEPARATE TRAFFIC CONTROLS (FLAGGING), INCLUDING REMOVAL OF SECTION OF APPROACH SLAB.
- INSTALL VEHICULAR TRAFFIC AND PEDESTRIAN TRAFFIC CONTROL SIGNAGE INCLUDING CONSTRUCTION SIGNAGE. PEDESTRIANS TO UTILIZE EAST SIDE SIDEWALK
- INSTALL TEMPORARY CONCRETE JERSEY BARRIERS AND END TREATMENTS FOR STAGE 1
- ADJUST PAVEMENT MARKINGS AND INSTALL STOP BARS
- ENERGIZE TEMPORARY TRAFFIC SIGNALS (BY OTHERS)
- REMOVE GUIDERAILS ON WEST SIDE
- INSTALL THE SUPPORT FOR WATERMAINS UNDER THE BRIDGE
- REMOVE ASPHALT AND WATERPROOFING FOR STAGE 1
- SCARIFY THE DECK FOR STAGE 1
- CARRY OUT PARTIAL DEPTH REMOVALS AND FULL DEPTH REMOVALS IN THE DECK FOR STAGE 1
- REMOVE THE EXPANSION JOINTS FOR STAGE 1
- REMOVE THE APPROACH SLABS FOR STAGE 1
- REMOVE THE BALLAST WALLS FOR STAGE 1
- SCARIFY THE SAFETY CURB FOR STAGE 1
- CARRY OUT PARTIAL AND FULL DEPTH DECK REPAIRS FOR STAGE 1
- REBUILT THE BASINS OF EXISTING DRAINS AND INSTALL 1 MORE DECK DRAIN AT SOUTH EXPANSION JOINT.
- CONSTRUCT NEW BALLAST WALLS FOR STAGE 1 AND BACKFILL
- INSTALL ASPHALT DRAINS.
- OVERLAY THE DECK AND SAFETY CURB FOR STAGE 1
- REMOVE EXISTING RAILING ON WEST PARAPET WALL AND REPLACE WITH CUSTOM TRAFFIC RAILING.
- INSTALL NEW EXPANSION JOINTS FOR STAGE 1
- INSTALL NEW APPROACH SLABS IN STAGE 1 INCLUDING NEW ASPHALT DRAINS AT THE NORTH END
- ADJUST CATCH BASINS (ONE AT EACH APPROACH).
- REMOVE AND REPLACE THE CURB AND GUTTER ON APPROACHES FOR STAGE 1
- AA. WATERPROOF AND PAVE FOR STAGE 1 (BINDER COURSE ONLY) INCLUDING REQUIRED ASPHALT RAMPING TO EXISTING ON APPROACHES AND AT EXPANSION JOINTS
- AB. INSTALL TEMPORARY CONCRETE BARRIERS ALONG SAFETY CURB ON WEST SIDE TO SEPARATE NEW TEMPORARY SIDEWALK FOR USE IN STAGE 2, C/W END TREATMENTS.
- AC. PLACE GRANULAR AND TEMPORARY ASPHALT FILL BETWEEN THE TCB AND SAFETY CURB TO CONSTRUCT NEW SIDEWALK OVER THE BRIDGE FOR STAGE 2.
- AD. INSTALL PEDESTRIAN FACILITIES/PAVED PATHWAY ALONG WEST SIDE OF ROAD, NORTH AND SOUTH OF THE BRIDGE
- AE. ADJUST PAVEMENT MARKINGS FOR STAGE 2
- AF. RELOCATE THE TEMPORARY CONCRETE BARRIERS FOR STAGING (STAGE 2)
- AG. ADJUST TRAFFIC CONTROL SIGNAGE AND PEDESTRIAN TRAFFIC CONTROL FOR STAGE 2
- AH. SWITCH TRAFFIC CONTROLS TO STAGE 2 WORK
- AI. REMOVE GUARDRAILS ON EAST SIDE
- AJ. REMOVE ASPHALT AND WATERPROOFING FOR STAGE 2
- AK. SCARIFY THE DECK FOR STAGE 2
- AL. CARRY OUT PARTIAL DEPTH REMOVALS AND FULL DEPTH REMOVALS IN THE DECK FOR STAGE 2
- AM. REMOVE THE EXPANSION JOINTS FOR STAGE 2
- AN. REMOVE THE APPROACH SLABS FOR STAGE 2
- AO. INSTALL TEMPORARY SUPPORT FOR THE UTILITY BANK UNDER EAST SIDEWALK (BOTH APPROACHES)
- AP. REMOVE THE BALLAST WALLS FOR STAGE 2
- AQ. SCARIFY THE EAST SIDEWALK FOR STAGE 2
- AR. CARRY OUT PARTIAL AND FULL DEPTH DECK REPAIRS FOR STAGE 2
- AS. REBUILT THE BASINS OF EXISTING DRAINS AND INSTALL 1 MORE DECK DRAIN AT SOUTH EXPANSION JOINT.
- AT. CONSTRUCT NEW BALLAST WALLS FOR STAGE 2 AND BACKFILL
- AU. INSTALL ASPHALT DRAINS.
- AV. OVERLAY THE DECK AND SIDEWALK FOR STAGE 2
- AW. REMOVE EXISTING RAILING ON EAST PARAPET WALL AND REPLACE WITH CUSTOM TRAFFIC RAILING.
- AX. INSTALL NEW EXPANSION JOINTS FOR STAGE 2
- AY. INSTALL NEW APPROACH SLABS IN STAGE 2 INCLUDING ASPHALT DRAINS AT NORTH END
- AZ. ADJUST CATCH BASINS ON APPROACHES (ONE ON EACH APPROACH)
- BA. REMOVE AND REPLACE THE CURB AND GUTTER ON APPROACHES FOR STAGE 2
- BB. CARRY OUT REPAIRS TO CONCRETE IN ABUTMENTS
- BC. WATERPROOF AND PAVE FOR STAGE 2 (BINDER COURSE ONLY) INCLUDING REQUIRED ASPHALT RAMPING TO EXISTING ON APPROACHES AND AT EXPANSION JOINTS.
- BD. REMOVE TEMPORARY CONCRETE BARRIERS
- BE. TURN OFF TRAFFIC SIGNALS (BY OTHERS)
- BF. INSTALL TEMPORARY PAVEMENT MARKINGS
- BG. REINSTATE THE ORIGINAL TRAFFIC
- BH. INSTALL GUARDRAILS AND END TREATMENTS
- BI. MILL APPROACHES FOR BLENDING OF NEW PAVEMENT AND INSTALL TOP COURSE ASPHALT ON DECK, APPROACH SLABS AND APPROACHES AS ONE CONTINUOUS OPERATION.
- BJ. INSTALL FINAL PAVEMENT MARKINGS
- BK. GROOVE AND SEAL JOINTS IN ASPHALT AT THE END OF APPROACH SLABS
- BL. INSTALL THE SEALS IN EXPANSION JOINTS
- BM. INSTALL PENETRATING CONCRETE SEALER ON PARAPET WALLS, SIDEWALK, SAFETY CURB AND EXPOSED CONCRETE SURFACES OF EXPANSION JOINTS
- BN. REMOVE TRAFFIC SIGNALS AND WOODEN POLES (BY OTHERS)
- BO. REMOVE WATERMAIN SUPPORT SYSTEMS FROM UNDER THE DECK
- BP. INSTALL ENVIRONMENTAL PROTECTION SYSTEM AND ABRASIVE BLAST CLEAN END OF STEEL GIRDERS AND STEEL STRUCTURE AND BEARINGS. COAT THE STEELWORK AND BEARINGS.
- BQ. CONSTRUCT SHEAR BLOCKS ON ABUTMENTS.
- BR. REINFORCE DAMAGED GIRDER FLANGE.

GENERAL CABLE UTILITY NOTES

- TELECOMMUNICATION CABLES ARE PRESENT IN THE DUCTS IN EAST SIDEWALK. THESE UTILITIES WILL REMAIN OPERATIONAL AT ALL TIMES. CONTRACTOR SHALL DEVELOP A PROCEDURE TO CARRY OUT THE WORK WITHOUT DAMAGE TO UTILITY DUCTS AND UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE, REPAIRS AND ANY FURTHER COSTS ASSOCIATED WITH DAMAGE TO THE UTILITIES.
- THE DUCT AND POWER SUPPLY CABLE ARE PRESENT IN EAST PARAPET WALLS ARE TO REMAIN IN SERVICE AND BE OPERATIONAL AT ALL TIMES. ANY TEMPORARY SHUT DOWN OF POWER SUPPLY TO THE STREET LIGHT TO BE COORDINATED WITH THE TOWN OF PETAWAWA.
- THE STREET LIGHTS ON THE BRIDGE AND APPROACHES TO REMAIN IN SERVICE AT ALL TIMES.

GENERAL WATERMAIN UTILITY NOTES

- THE WATERMAIN IS OWNED BY TOWN OF PETAWAWA AND WORK OF SHUTTING DOWN THE NEARBY VALVES, COMMISSIONING AND PUTTING THE WATERMAIN BACK IN SERVICE SHALL BE CO-ORDINATED WITH THE TOWN OF PETAWAWA.
- THE WATERMAIN UNDER THE BRIDGE SHALL BE SHORED/PROPPED FROM GIRDERS UNDERNEATH THE DECK BEFORE REMOVALS OF ASPHALT FROM THE DECK.
- ADDITIONAL HANGERS FOR THE WATERMAIN SHALL BE INSTALLED WHERE WARRANTED BY CONDITION OF CONCRETE IN THE DECK AND AS DIRECTED BY THE CONTRACT ADMINISTRATOR. THIS WILL BE DECIDED AFTER COMMENCEMENT OF CONCRETE REMOVALS IN THE DECK.
- THE RODS AND ANCHORS FOR THE ADDITIONAL HANGERS WILL BE INSTALLED PRIOR TO INSTALLATION OF CONCRETE OVERLAY.
- THE EXISTING WATERMAIN WILL NEED TO REMAIN IN SERVICE.
- ANY WATERMAIN WORKS ON APPROACHES NEED TO BE COORDINATED WITH WORK OF APPROACH SLAB REMOVALS AND RECONSTRUCTION TO ALLOW ACCESS.
- THE ACTUAL CONDITION AND DESIGN OF THE 1972 WATERMAIN IN THE APPROACHES IS UNKNOWN AS NO DESIGN DRAWINGS ARE AVAILABLE.

TRAFFIC CONTROL NOTES


- TRAFFIC CONTROL AS PER ONTARIO TRAFFIC MANUAL BOOK 7 .
- SEPARATE WORK AREA AND WORKERS FROM TRAFFIC WITH USE OF TEMPORARY CONCRETE BARRIERS AND APPROVED END TREATMENTS.
- THE STREET LIGHTS ON THE BRIDGE AND APPROACHES TO REMAIN IN SERVICE AT ALL TIMES.

APPLICABLE STANDARD DRAWINGS

OPSD 911.160	GUIDE RAIL SYSTEM, CONCRETE BARRIER TYPE M CONNECTION INSTALLATION - TEMPORARY 1
OPSD 911.161	GUIDE RAIL SYSTEM, CONCRETE BARRIER TYPE M CONNECTION INSTALLATION - TEMPORARY 2
OPSD 911.162	GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION, TEMPORARY RESTRAINED SYSTEM PINNED TO ASPHALT PAVEMENT
OPSD 911.164	GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION, TEMPORARY RESTRAINT SYSTEM STRAPPED TO CONCRETE WITH ASPHALT SURFACE
OPSD 911.168	GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION, TEMPORARY RESTRAINT SYSTEM BOLTED THROUGH CONCRETE WITH ASPHALT SURFACE
OPSD 911.171	GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION, TEMPORARY RESTRAINT SYSTEM TRANSITION TO STRAPPED TCB
OPSD 911.172	GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, INSTALLATION, TEMPORARY RESTRAINT SYSTEM TRANSITION TO BOLTED TCB
OPSD 911.174	GUIDE RAIL SYSTEM, CONCRETE BARRIER, TYPE M CONNECTION, COMPONENT, THRIE BEAM TRANSITION
OPSD 911.236	GUIDE RAIL SYSTEM, TEMPORARY CONCRETE BARRIER AND ENERGY ATTENUATOR, TEMPORARY REDUCED EXPOSURE, ANCHORED BARRIER, INSTALLATION, TEMPORARY
OPSD 923.001	ENERGY ATTENUATOR, CRASH CUSHION, NARROW SYSTEMS, COMPONENT, REINFORCED CONCRETE PAD
OPSD 923.002	ENERGY ATTENUATOR, CRASH CUSHION, COMPONENT, ANCHOR ASSEMBLY
OPSD 923.196	ENERGY ATTENUATOR, CRASH CUSHION, QUADGUARD M10 SYSTEM, INSTALLATION, TEMPORARY, UNIDIRECTIONAL
OPSD 984.203	ENERGY ATTENUATOR, CRASH CUSHION, DELINEATION, INSTALLATION, TEMPORARY
OPSD 3101.150	WALLS ABUTMENT, BACKFILL MINIMUM GRANULAR REQUIREMENT
OPSD 3340.150	DECK, DRAINS, WITH TRANSVERSE BAR OPENINGS
OPSD 3370.100	DECK WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD DETAILS
OPSD 3370.101	DECK WATERPROOFING HOT APPLIED ASPHALT MEMBRANE AT ACTIVE CRACKS GREATER THAN 2MM WIDE AND CONSTRUCTION JOINTS
OPSD 3950.100	JOINTS CONCRETE EXPANSION AND CONSTRUCTION ON STRUCTURE

LIST OF ABBREVIATIONS


ABUT.	ABUTMENT
BRGS.	BEARINGS
BOT	BOTTOM
BLL	BOTTOM LOWER LEVEL
BUL	BOTTOM UPPER LEVEL
C/C	CENTER TO CENTER
C.J.	CONSTRUCTION JOINT
DIA.	DIAMETER
DWG.	DRAWING
EBL	EASTBOUND LANE
E.E.	EACH END
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
EQ. SPCD	EQUALLY SPACED
E.S.	EACH SIDE
EXP	EXPANSION BEARINGS
FIX	FIXED BEARINGS
F.F.	FAR FACE
I.F.	INSIDE FACE
LG	LONG
EQ.	MAXIMUM
MIN.	MINIMUM
MID.	MIDDLE
N.F.	NEAR FACE
N.T.S.	NOT TO SCALE
O.F.	OUTSIDE FACE
PL	PLATE
TLL	TOP LOWER LEVEL
TUL	TOP UPPER LEVEL
T/P	TOP OF PAVEMENT
T/	TOP OF
TYP	TYPICAL
U.N.	WATER LEVEL
WBL	WESTBOUND LANE
W.P.	WORKING POINT



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#	REVISIONS	DATE	NAME

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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

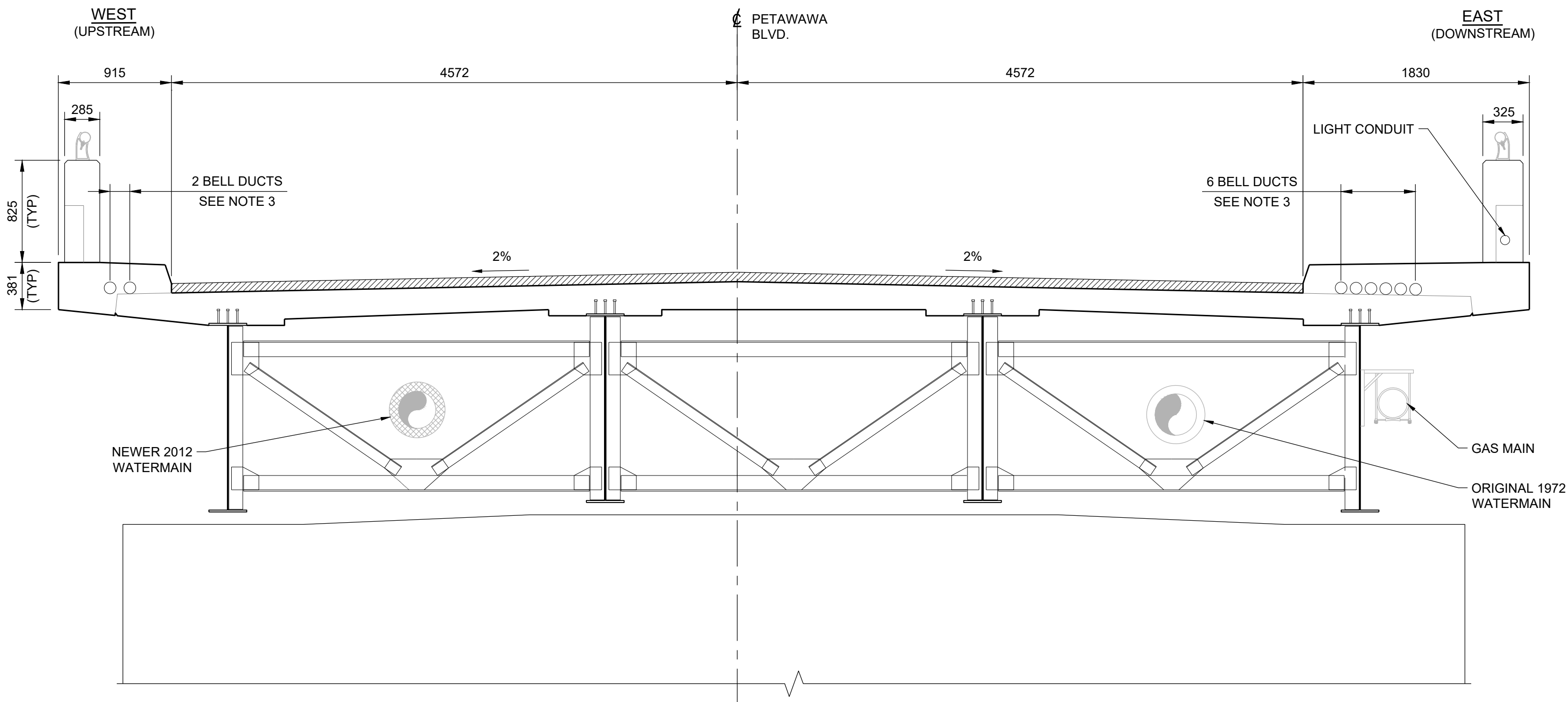
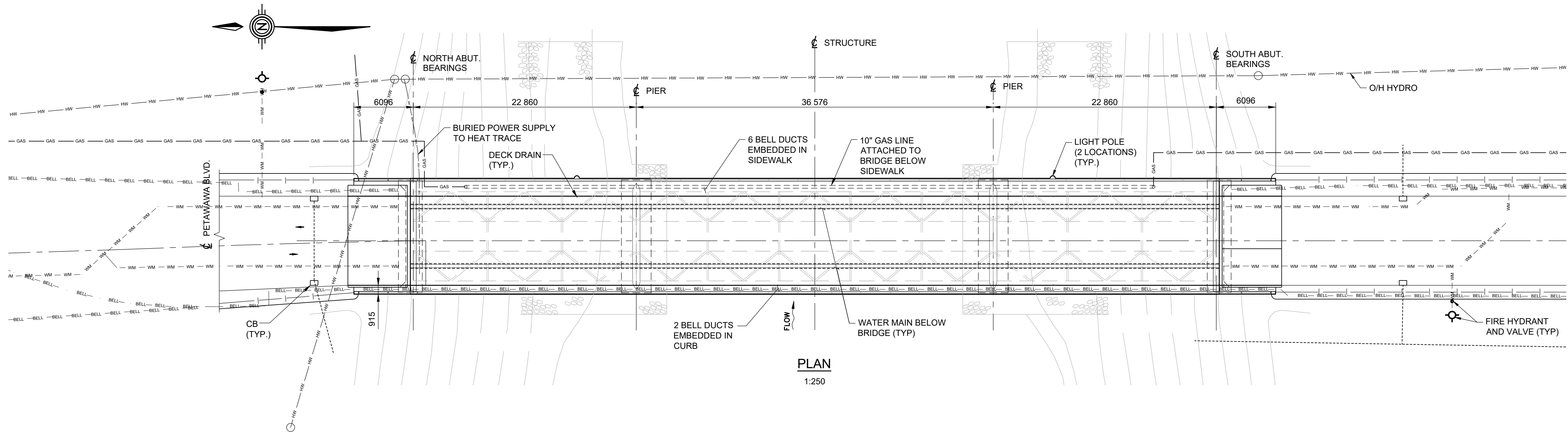
GENERAL NOTES

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 02
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Rehab\SHEETS\211-13633-00_BRG_03_UTILITY.dwg
PLOT DATE: Mar 04, 2022 - 9:20am
DRAWN BY: Meunier, Adrian

(A1 841mm x 594mm)



SECTION A
1:30

GENERAL NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
- THE LOCATION OF THE UTILITIES IS APPROXIMATE ONLY. THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
- THE CONDUIT MAY CONTAINS.
EAST SIDEWALK:
 - BELL - 400 PAIR
 - BELL - TWO X 25 PAIR
 - EMPTY
 - BELL - 1800 PAIR
 - BELL - 900 PAIR
 - BELL - FIBER CABLE**WEST CURB**
 - BELL - UNKNOWN
 - BELL - UNKNOWN
- BELL DUCTS UNDER THE SIDEWALK ALONG APPROACH SLABS AND BEYOND ARE ENCASED IN CONCRETE AND WILL REQUIRE TEMPORARY SUPPORT.



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2	ISSUED FOR 90% REVIEW	26/02/22	ZFW
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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

COMPOSITE UTILITY PLAN
EXISTING

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 03
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

TRAFFIC CONTROL:

PRE-STAGE:

- PRE-STAGE WORK TO INSTALL CONCRETE BLOCK AND STEEL PLATE ROADWAY PROTECTION SHALL BE INSTALLED UNDER SINGLE LANE CLOSURE WITH TRAFFIC CONTROL PERSONNEL AND RESTRICTED VEHICLE WIDTH AND TRUCK DETOUR ROUTE IN PLACE.
- SAW CUTTING OF ASPHALT AND CONCRETE DECK (25mm DEEP) ALONG STAGING JOINT TO BE DONE UNDER SINGLE LANE CLOSURE WITH TRAFFIC CONTROL PERSONNEL.

STAGE 1:

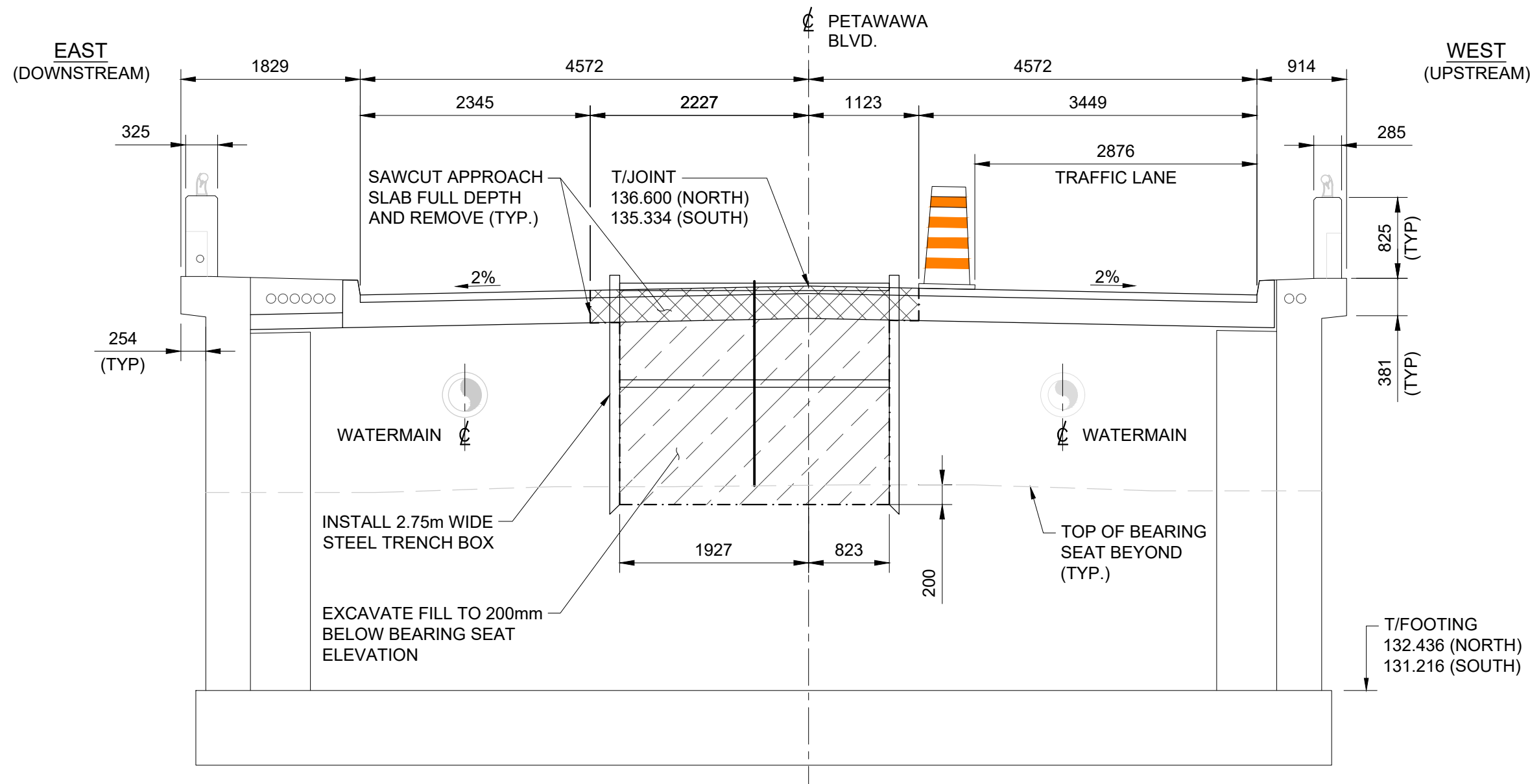
- SOUTH BOND LANE TO BE CLOSED WITH LONG DURATION SINGLE LANE CLOSURE WITH ALTERNATIVE TRAFFIC FLOW UNDER TEMPORARY TRAFFIC SIGNALS IN NORTH BOUND LANE.
- PEDESTRIAN TO USE EAST SIDE WALK.

STAGE 2:

- NORTH BOUND LANE TO BE CLOSED WITH LONG DURATION SINGLE LANE CLOSURE WITH ALTERNATIVE TRAFFIC FLOW UNDER TEMPORARY TRAFFIC SIGNALS IN SOUTH BOUND LANE.
- PEDESTRIAN TO USE WEST CURB WITH TEMPORARY WIDENING AND TEMPORARY ASPHALT SIDEWALK AND MARKING ON APPROACH TO BRIDGE FROM NORTH AND SOUTH INTERSECTIONS.
- EAST SIDE WALK TO BE CLOSED WITH APPROPRIATE DETOUR SIGNAGE AT INTERSECTIONS TO THE NORTH AND SOUTH.

NOTE:

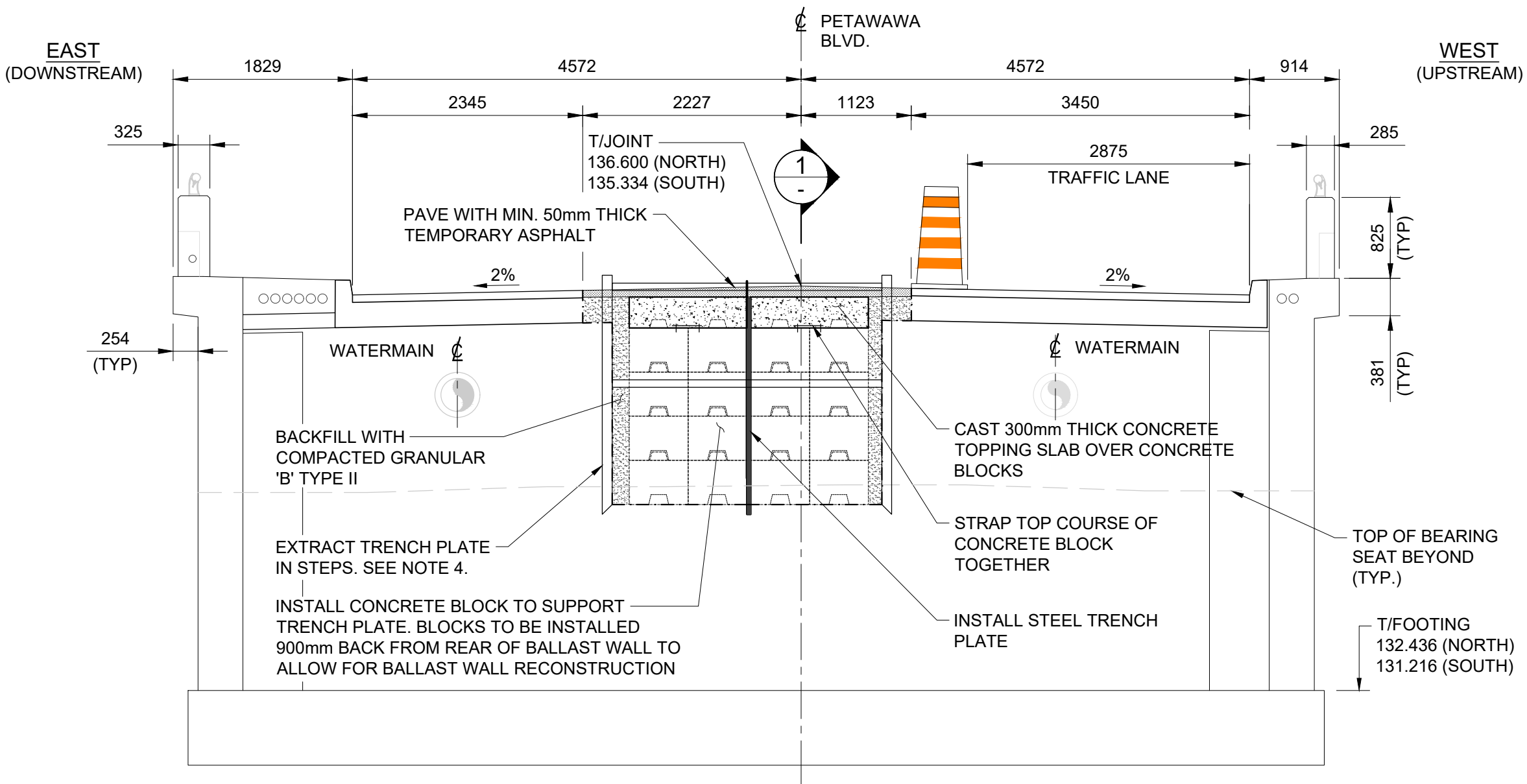
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
- STEEL TRENCH PLATE TO BE ASSUMED TO BE LEFT IN PLACE FOLLOWING CONSTRUCTION, AS IT MAY NOT BE POSSIBLE TO REMOVE IT.
- STEEL PLATE AND CONCRETE BLOCKS SHALL BE PLACED IN SUCH A WAY THAT IT DOES NOT IMPEDE REQUIRED WORK ON BALLAST WALL AND APPROACH SLAB.
- STEEL TRENCH PLATE TO BE EXTRACTED IN STEPS TO MATCH PLACEMENT OF CONCRETE BLOCKS AND BACKFILL. THE LOCATION OF TRENCH BOX SPREADERS WILL DETERMINE NUMBER OF STEPS IT TAKES.



PRE-STAGE 1 - NORTH ABUTMENT REAR FACE - REMOVALS

1:50

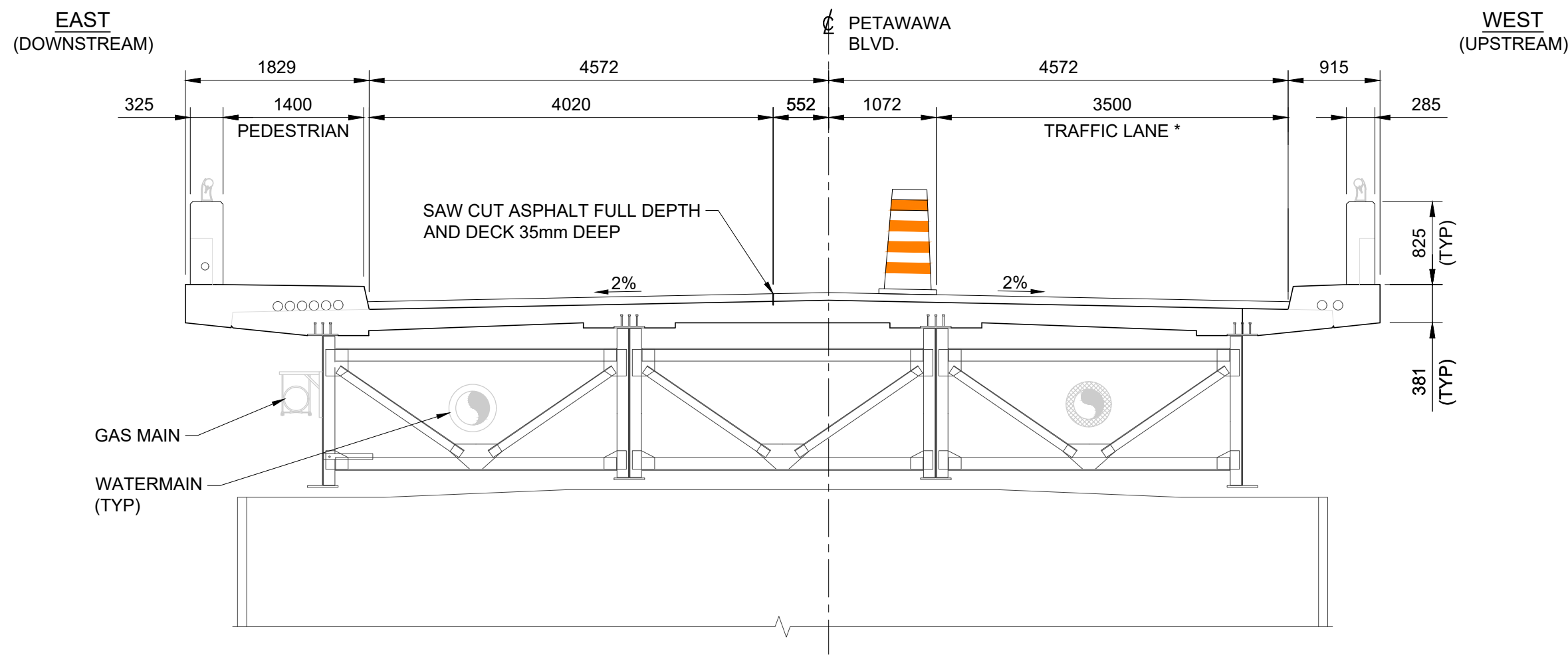
(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



PRE-STAGE 1 - NORTH ABUTMENT REAR FACE - RECONSTRUCTION

1:50

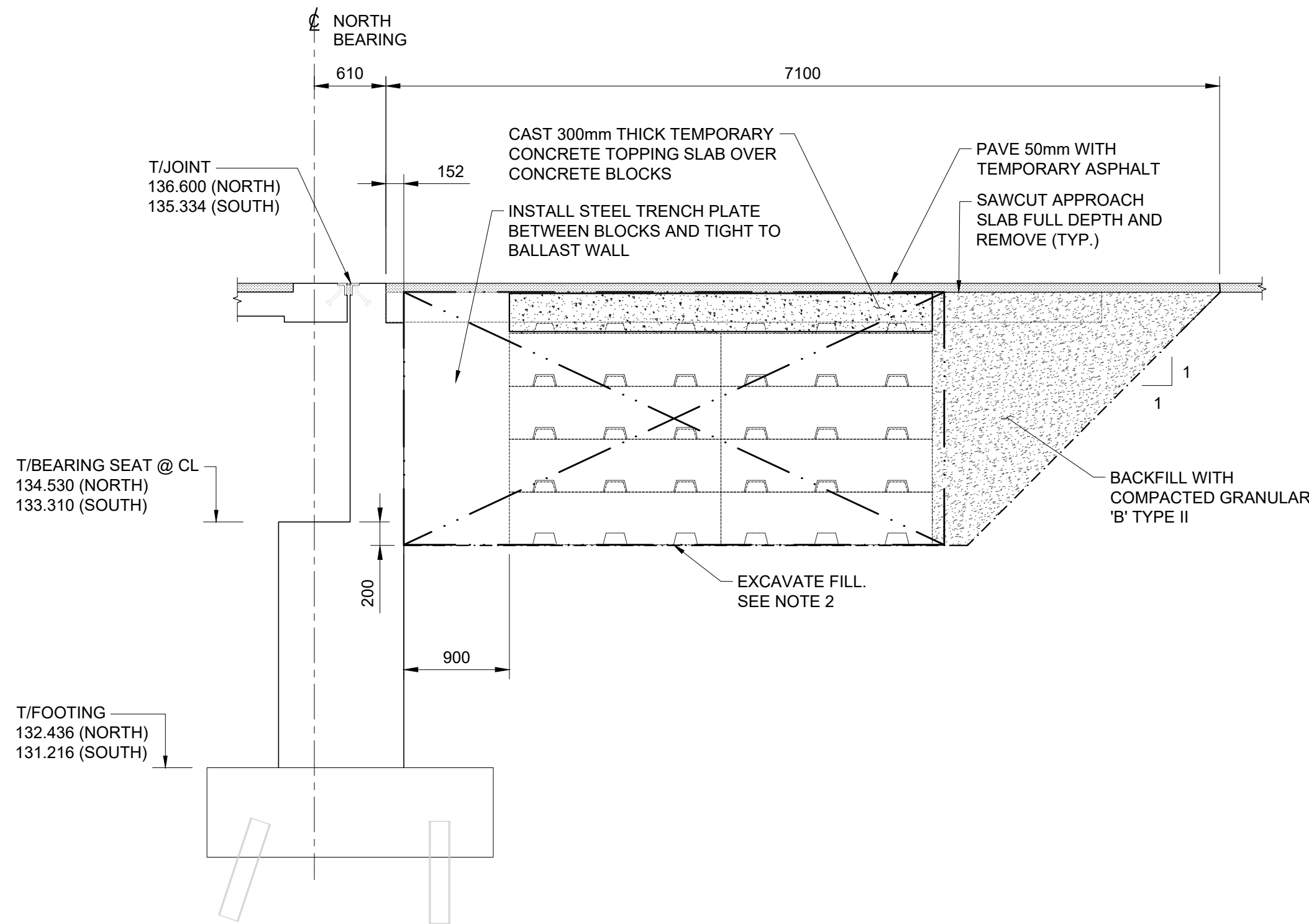
(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



PRE-STAGE 1 - DECK

1:50

* TRAFFIC LANE WIDTH SHOWN IF WORK IS NOT DONE DURING APPROACH ROADWAY PROTECTION INSTALLATION



SECTION 1

1:40

(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR. STEEL GIRDER AND DIAPHRAGM NOT SHOWN FOR CLARITY)



300-2511 QUEENSWAY DRIVE
OTTAWA (ONTARIO)
CANADA K2B 8K2
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PP	PROGRESS PRINT	04/03/22	AEM
2	ISSUED FOR 90% REVIEW	26/02/22	ZFW
01	ISSUED FOR REVIEW	21/01/22	Z.F.W.
#	REVISIONS	DATE	NAME

THE CORPORATION OF THE
COUNTY OF RENFREW
DEPARTMENT OF PUBLIC WORKS
AND ENGINEERING
9 INTERNATIONAL DRIVE
PEMBROKE ONTARIO
K8A 6W5
613-732-4353



PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

STRUCTURAL PRE-STAGE 1

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 04
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

NOTE:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02 AND ALL OTHER CONTRACT DRAWINGS.



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2	ISSUED FOR 90% REVIEW	26/02/22	ZFW
01	ISSUED FOR REVIEW	21/01/22	Z.F.W.
#	REVISIONS	DATE	NAME

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DEPARTMENT OF PUBLIC WORKS
AND ENGINEERING
9 INTERNATIONAL DRIVE
PEMBROKE ONTARIO
K8A 6W5
613-732-4353



PROJECT:

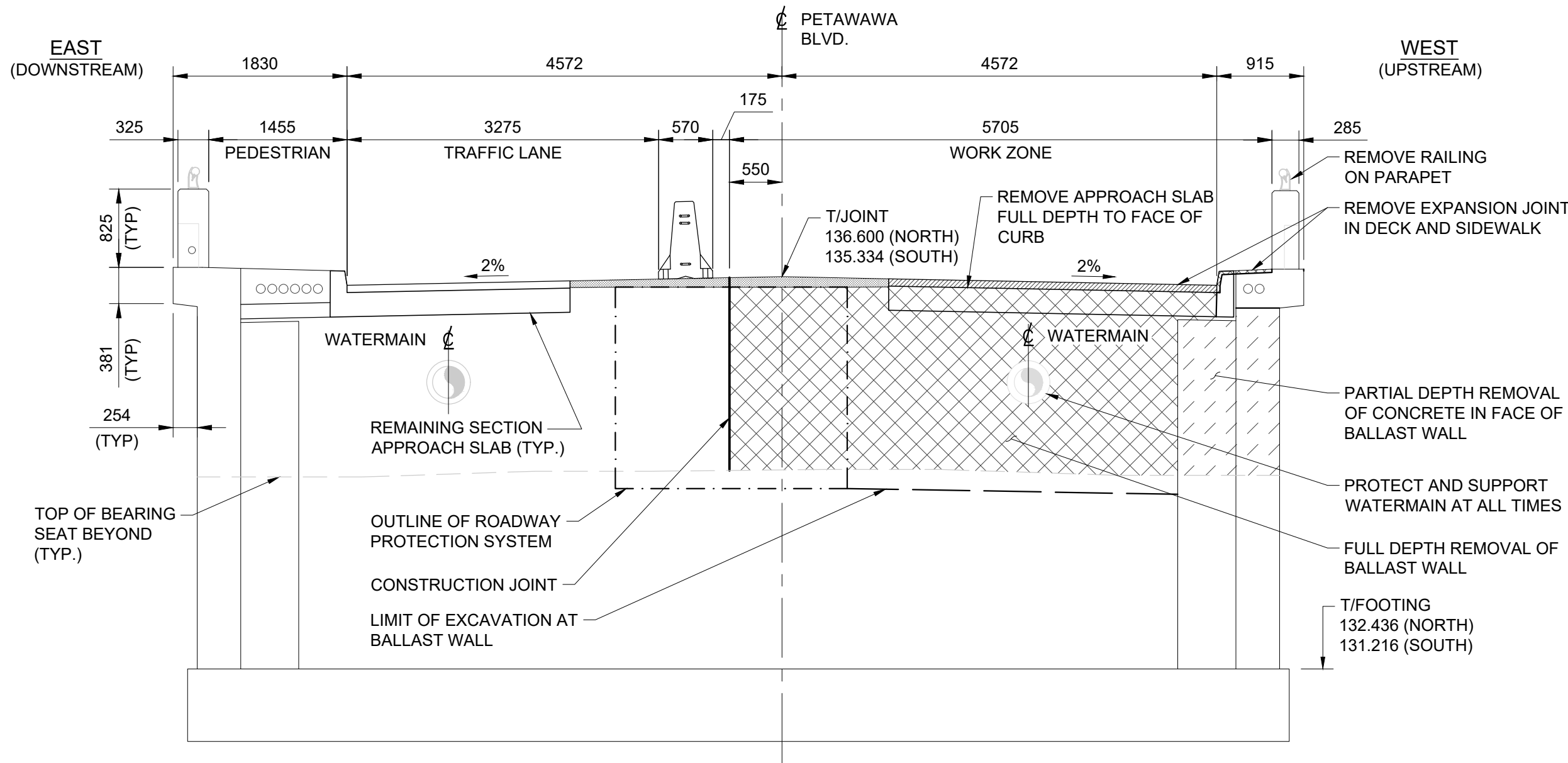
PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

STRUCTURAL STAGE 1

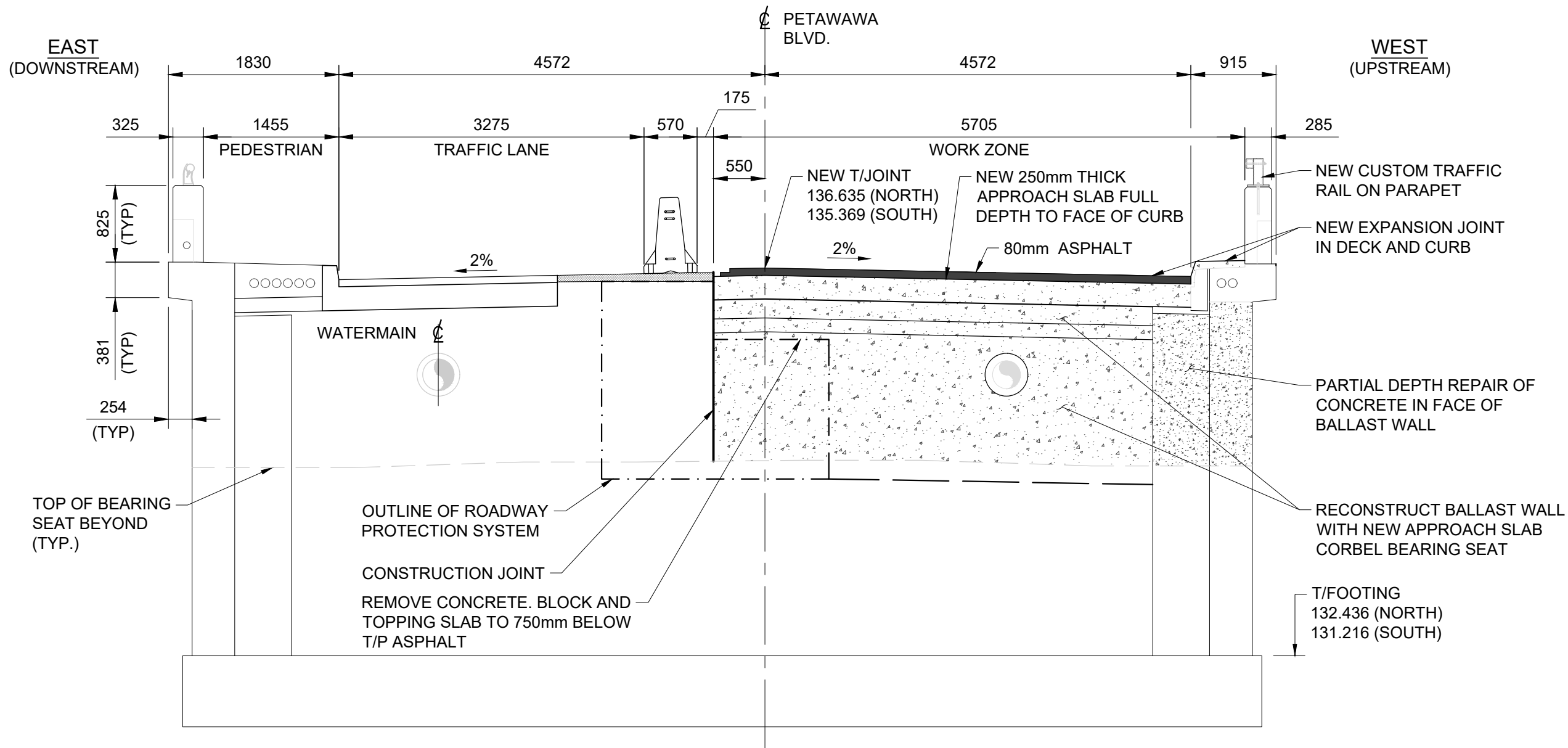
DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 05
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF



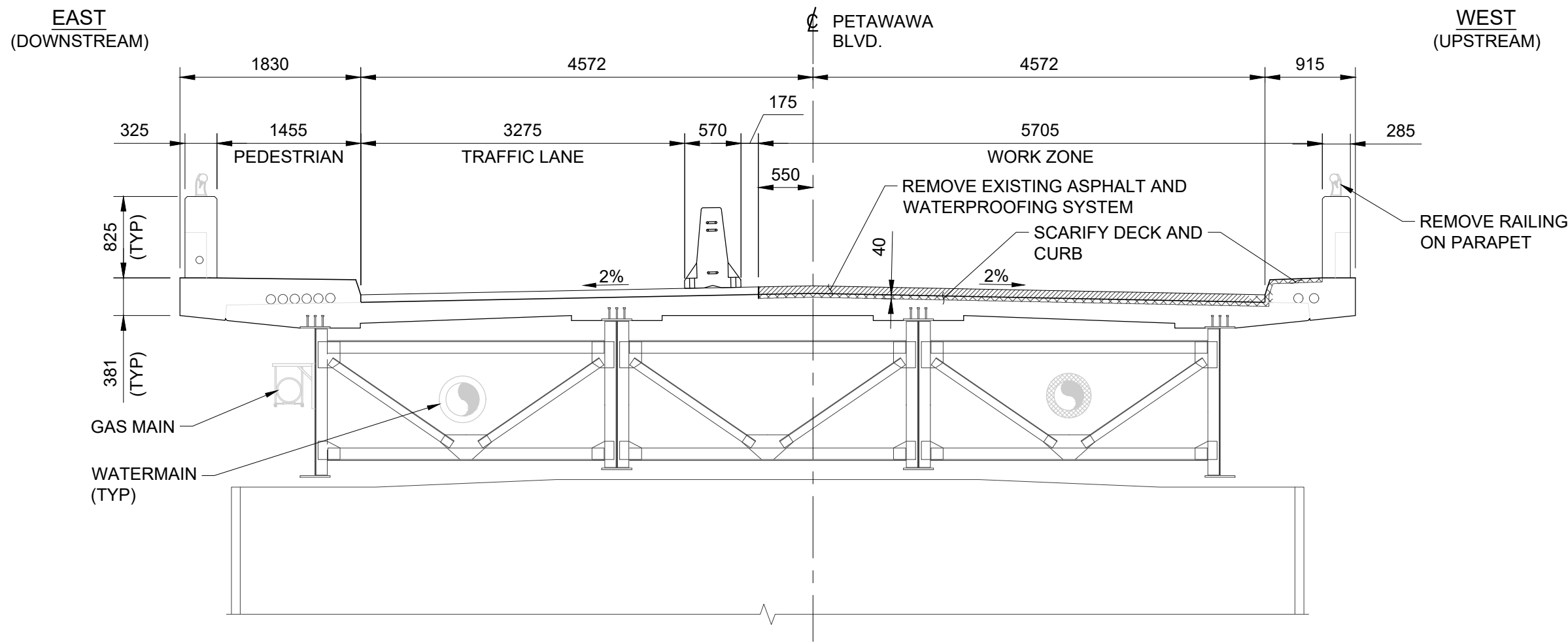
STAGE 1 - NORTH ABUTMENT REAR FACE - REMOVAL

1:50
(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



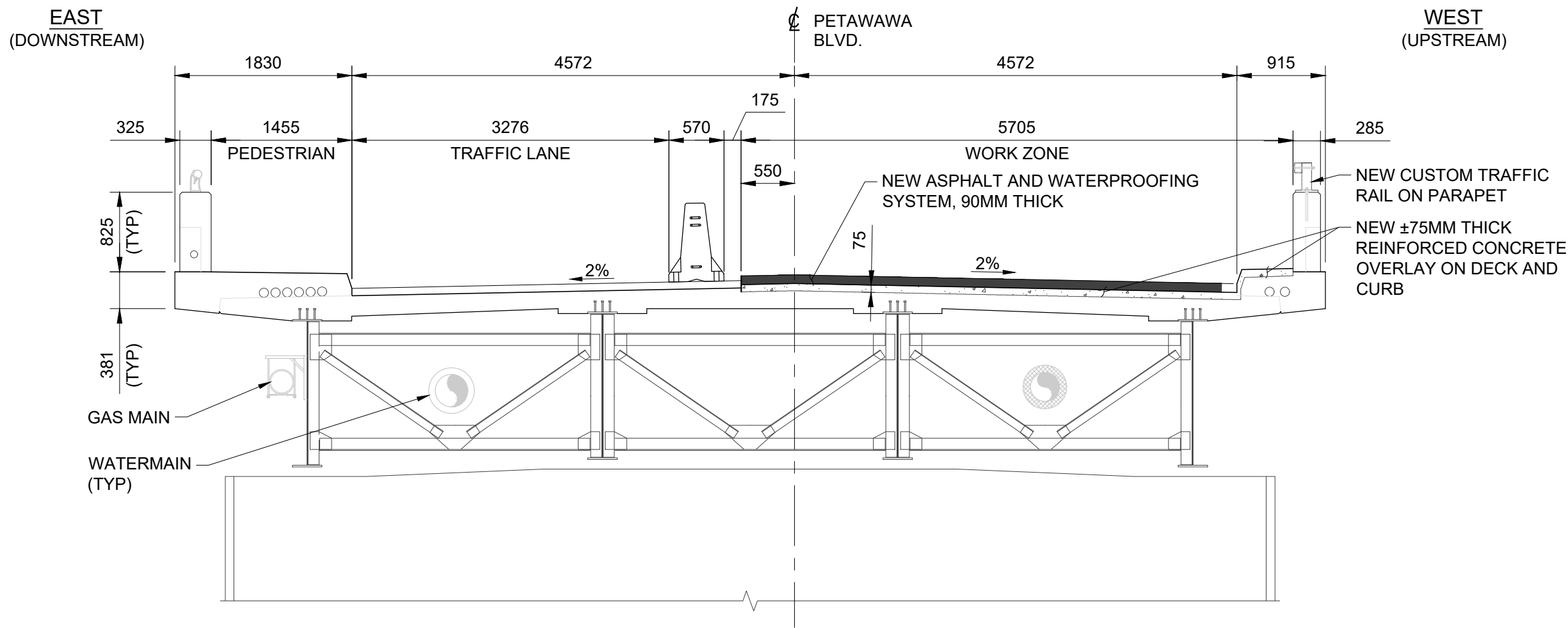
STAGE 1 - NORTH ABUTMENT REAR FACE - RECONSTRUCTION

1:50
(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



STAGE 1 - DECK REMOVAL

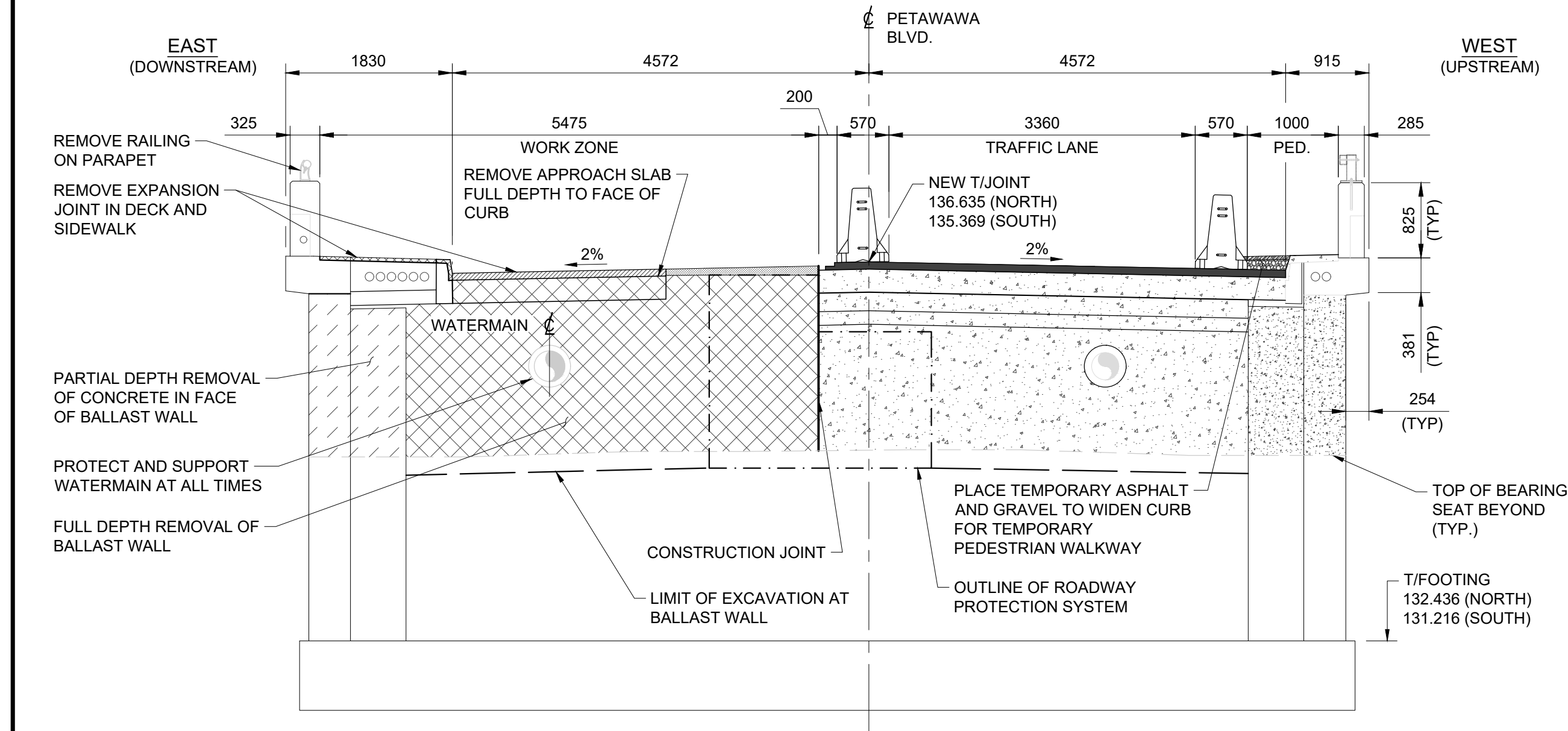
1:50



STAGE 1 - DECK RECONSTRUCTION

1:50

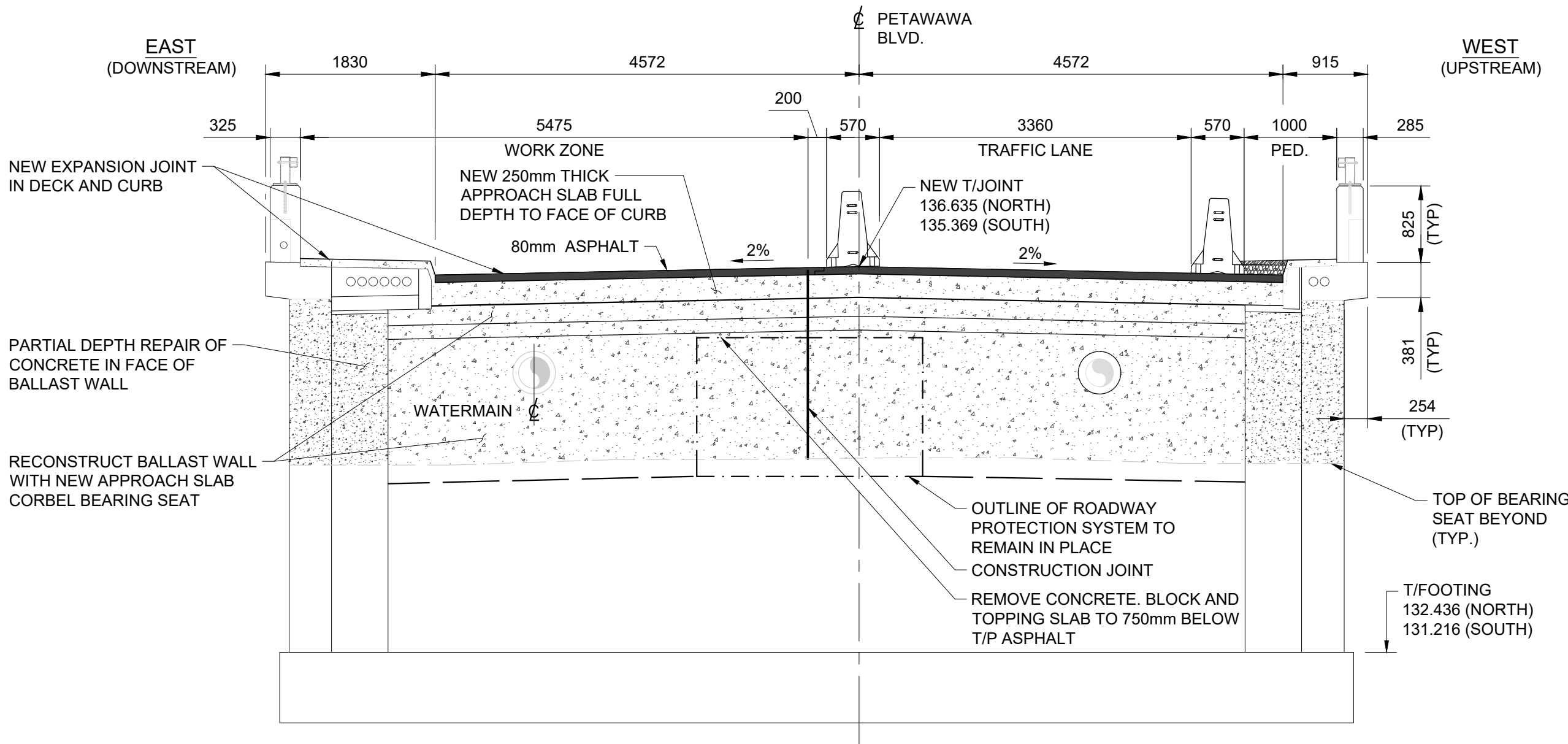
FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Rehab\SHEETS\211-13633-00_BRG_03-06_STAGING.dwg
PLOTDATE: Mar 04, 2022 - 9:21am
DRAWN: B. Meunier / A. E. M.



STAGE 2 - NORTH ABUTMENT REAR FACE - RECONSTRUCTION

1:50

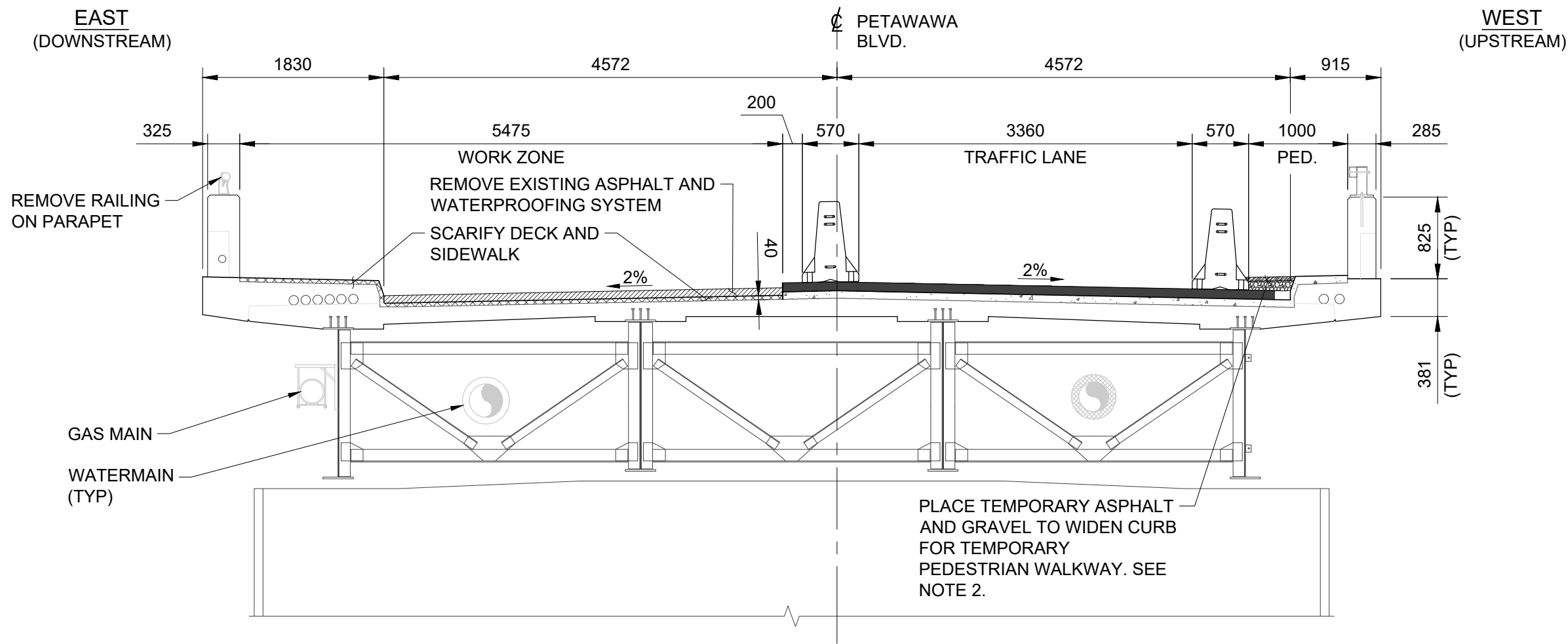
(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



STAGE 2 - NORTH ABUTMENT REAR FACE - RECONSTRUCTION

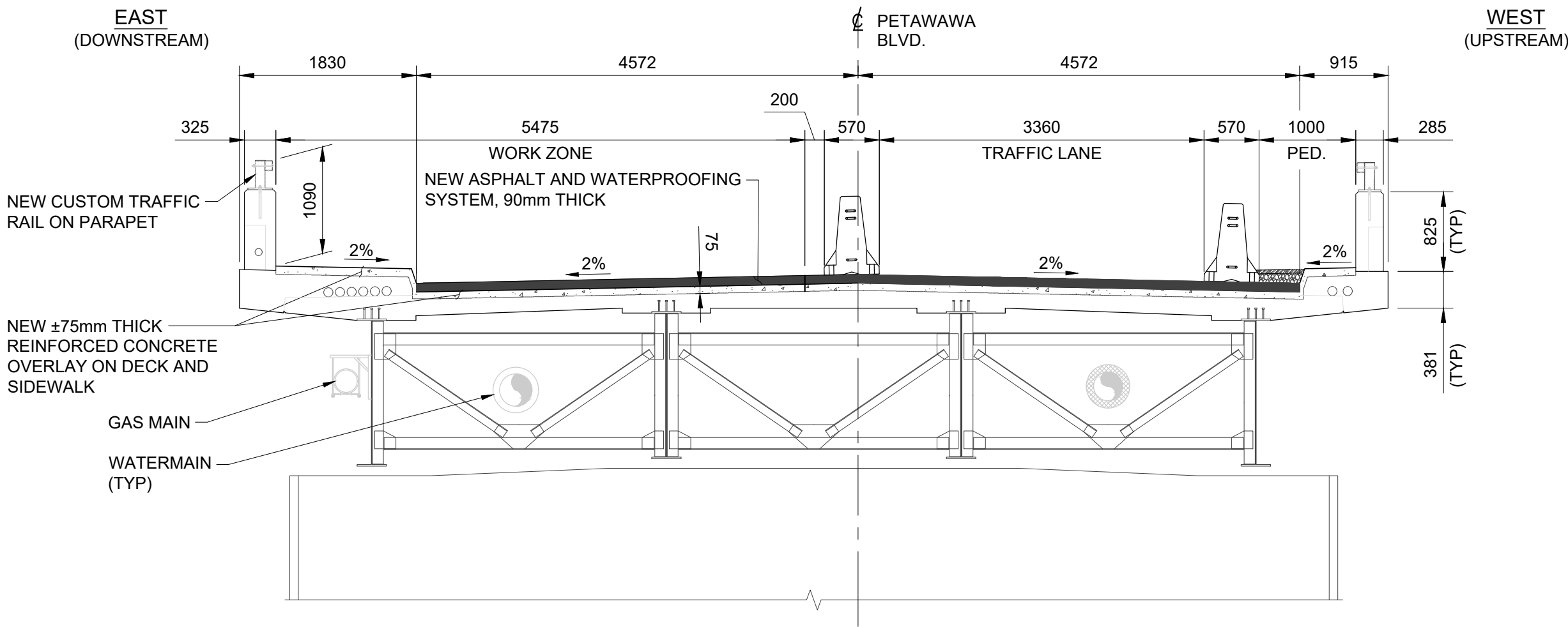
1:50

(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



STAGE 2 - DECK RECONSTRUCTION

1:50



STAGE 2 - DECK RECONSTRUCTION

1:50

NOTE:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
2. COVER DECK DRAINS WITH HALF BOX AND FILTER CLOTH TO ENSURE CONTINUES DRAINAGE OR SIMILAR EFFECTIVE METHOD.



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01	ISSUED FOR REVIEW	21/01/22	Z.F.W.
#	REVISIONS	DATE	NAME

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K8A 6W5
613-732-4353



PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

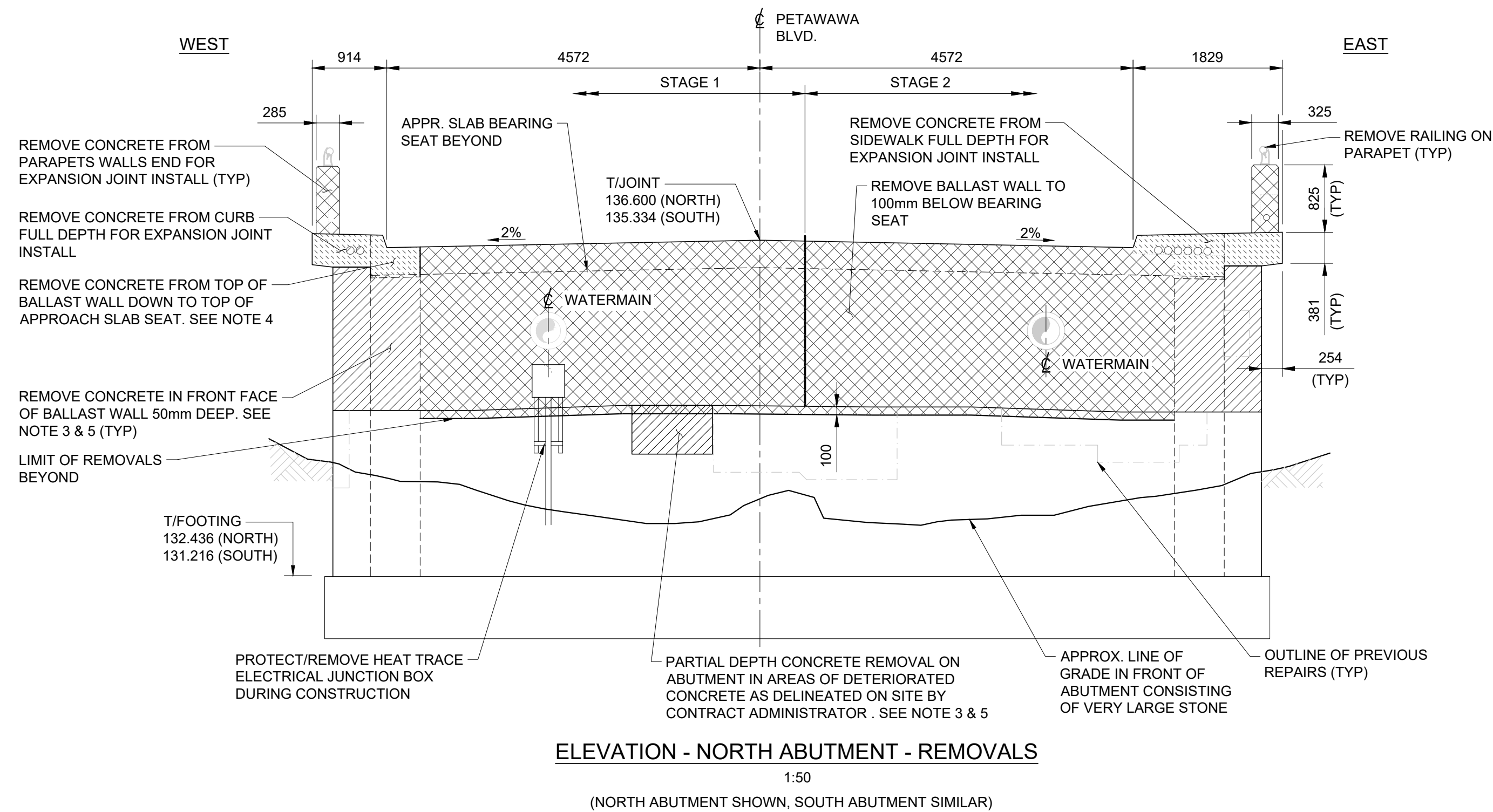
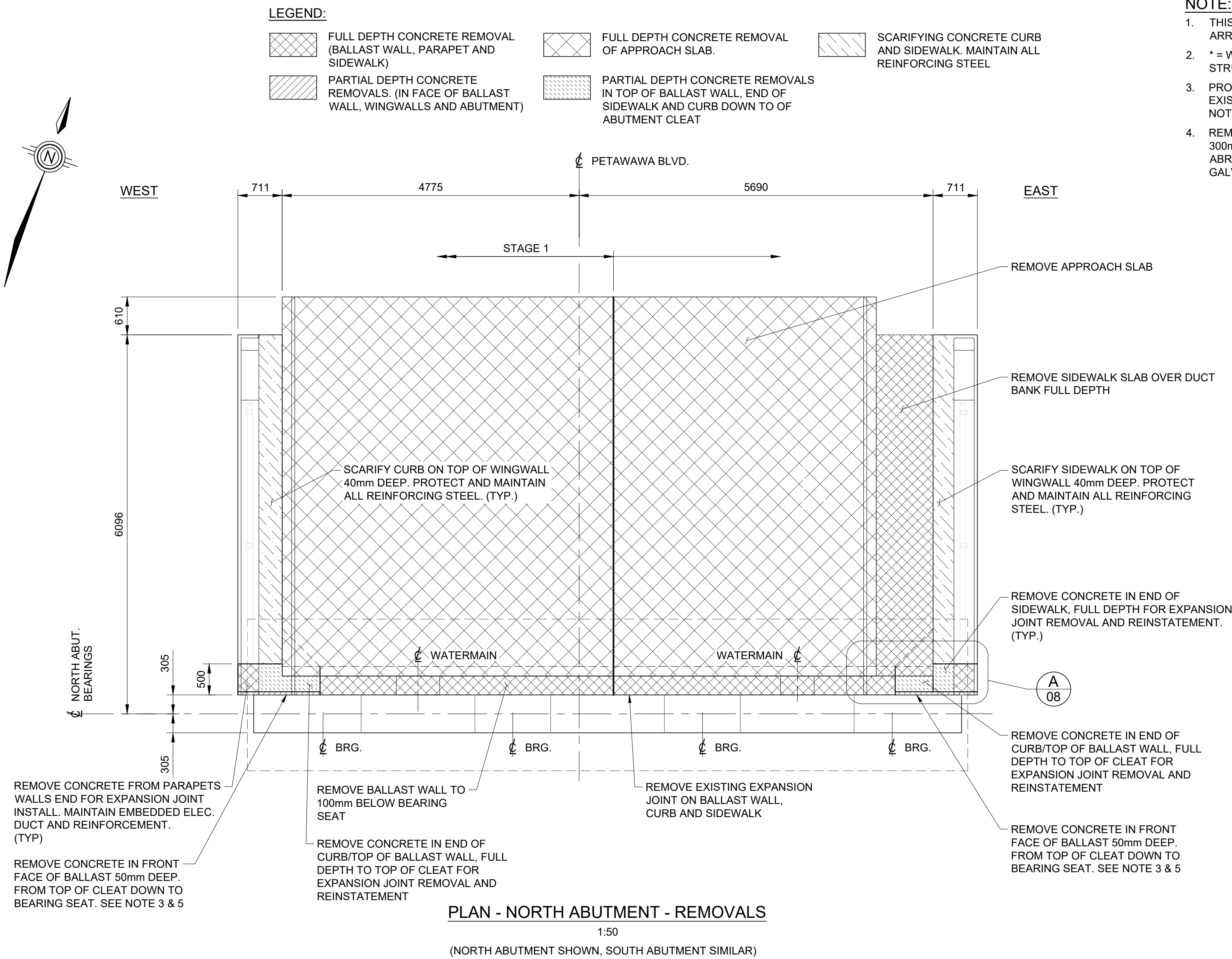
DRAWING:

STRUCTURAL STAGE 2

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 06
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Renob\SHEETS\211-13633-00_BRG_10_ABUT REM.dwg
PLOTDATE: Mar 04, 2022 - 9:25am
DRAWN BY: Meenier, Adrian

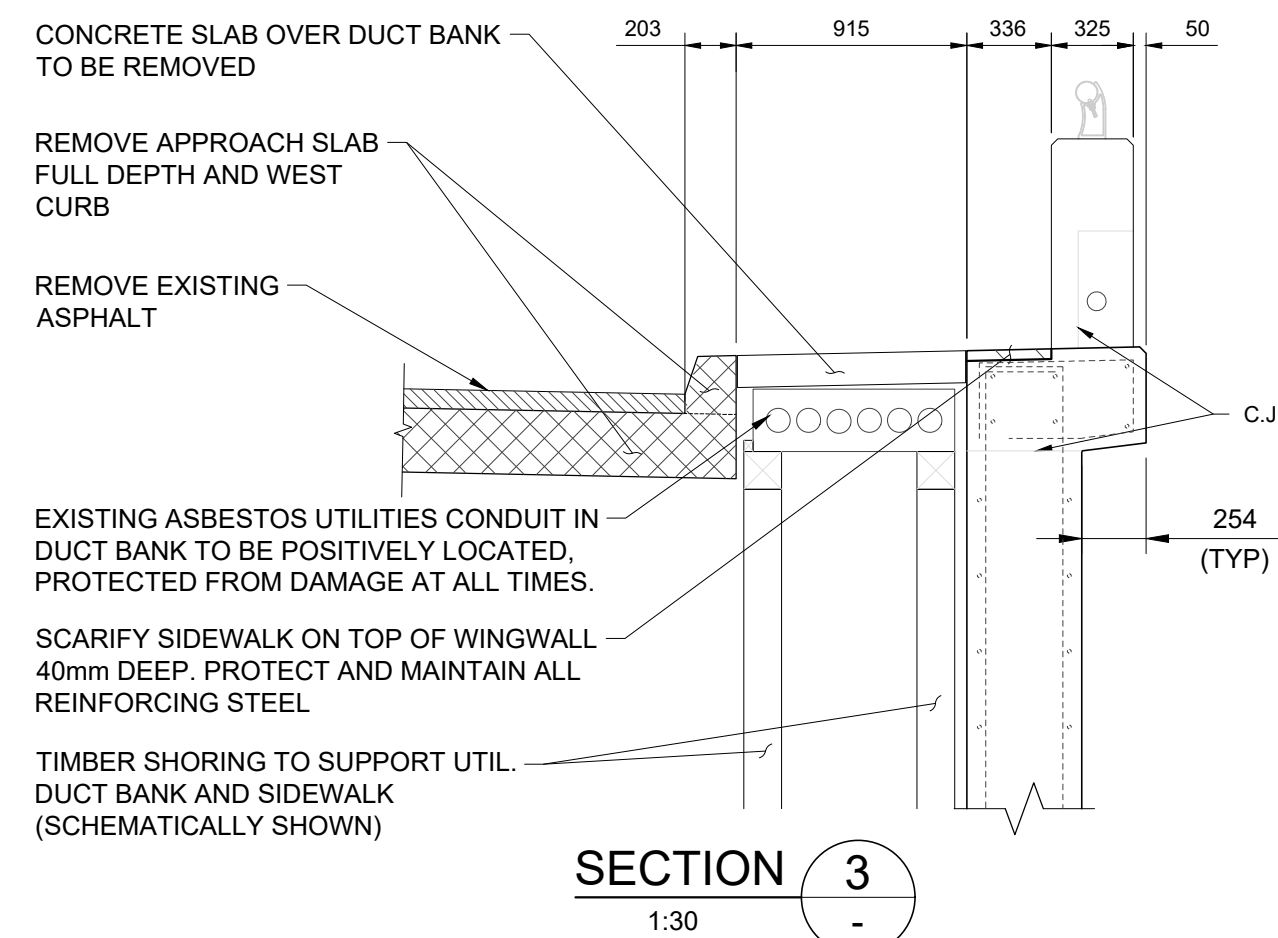
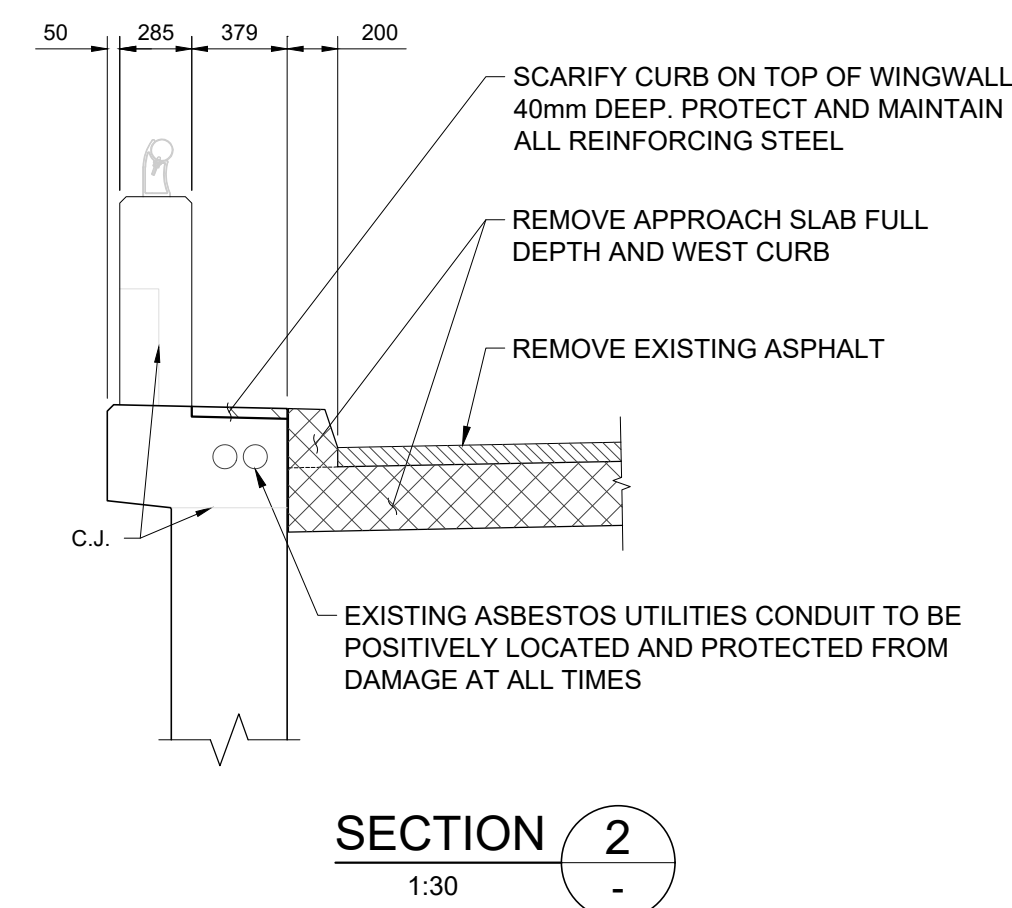
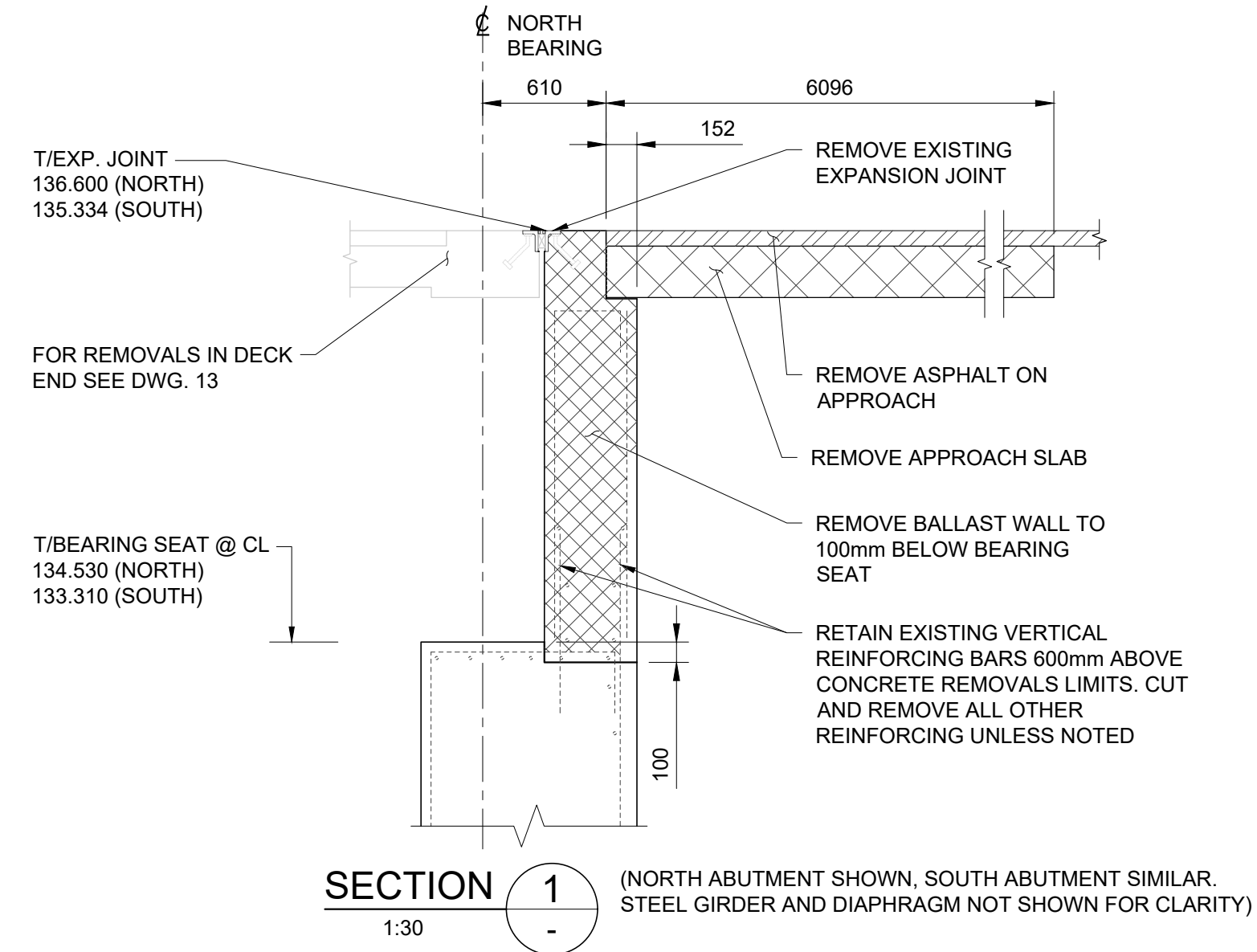
(A1 841mm x 594mm)



NOTE:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
- * = WIDTH OF GAP VARIES AND IS BASED ON THE TEMPERATURE OF THE STRUCTURE
- PROTECT AND MAINTAIN ALL REINFORCING STEEL. ABRASIVE BLAST CLEAN EXISTING REINFORCING AND COAT WITH GALVANIZING PAINT, UNLESS NOTED OTHERWISE.
- REMOVE EXISTING HORIZONTAL REINFORCING, PROTECT AND MAINTAIN 300mm OF VERTICAL BARS AND BARS FROM CLEAT REINFORCING STEEL. ABRASIVE BLAST CLEAN EXISTING REINFORCING AND COAT WITH GALVANIZING PAINT.

- FOR DETAILS OF PARTIAL DEPTH REMOVAL SEE DWG. 22.
- THE EXTENTS OF ALL CONCRETE REMOVALS TO BE DELINEATED WITH 25mm DEEP SAWCUT.
- ALL WORK TO BE CARRIED OUT IN STAGES.
- 6 DUCTS WITH 6 BELL CABLES IN EAST SIDEWALK AND 2 DUCTS WITH 3 BELL IN WEST CURB TO BE POSITIVELY LOCATED, TREATED AS LIVE AND PROTECTED FROM DAMAGE AT ALL TIMES.
- ELEVATION FOR TOP OF EXISTING SIDEWALK/CURB SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.



300-2511 QUEENSWAY DRIVE
OTTAWA (ONTARIO)
CANADA K2B 8K2
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K8A 6W5
613-732-4353



PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

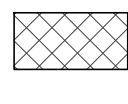
DRAWING:

ABUTMENT REMOVALS

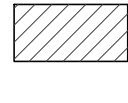
DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 07
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

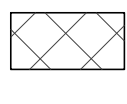
LEGEND:



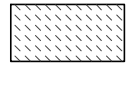
FULL DEPTH CONCRETE REMOVAL
(BALLAST WALL, PARAPET AND
SIDEWALK)



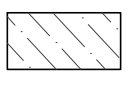
PARTIAL DEPTH CONCRETE
REMOVALS. (IN FACE OF BALLAST
WALL, WINGWALLS AND ABUTMENT)



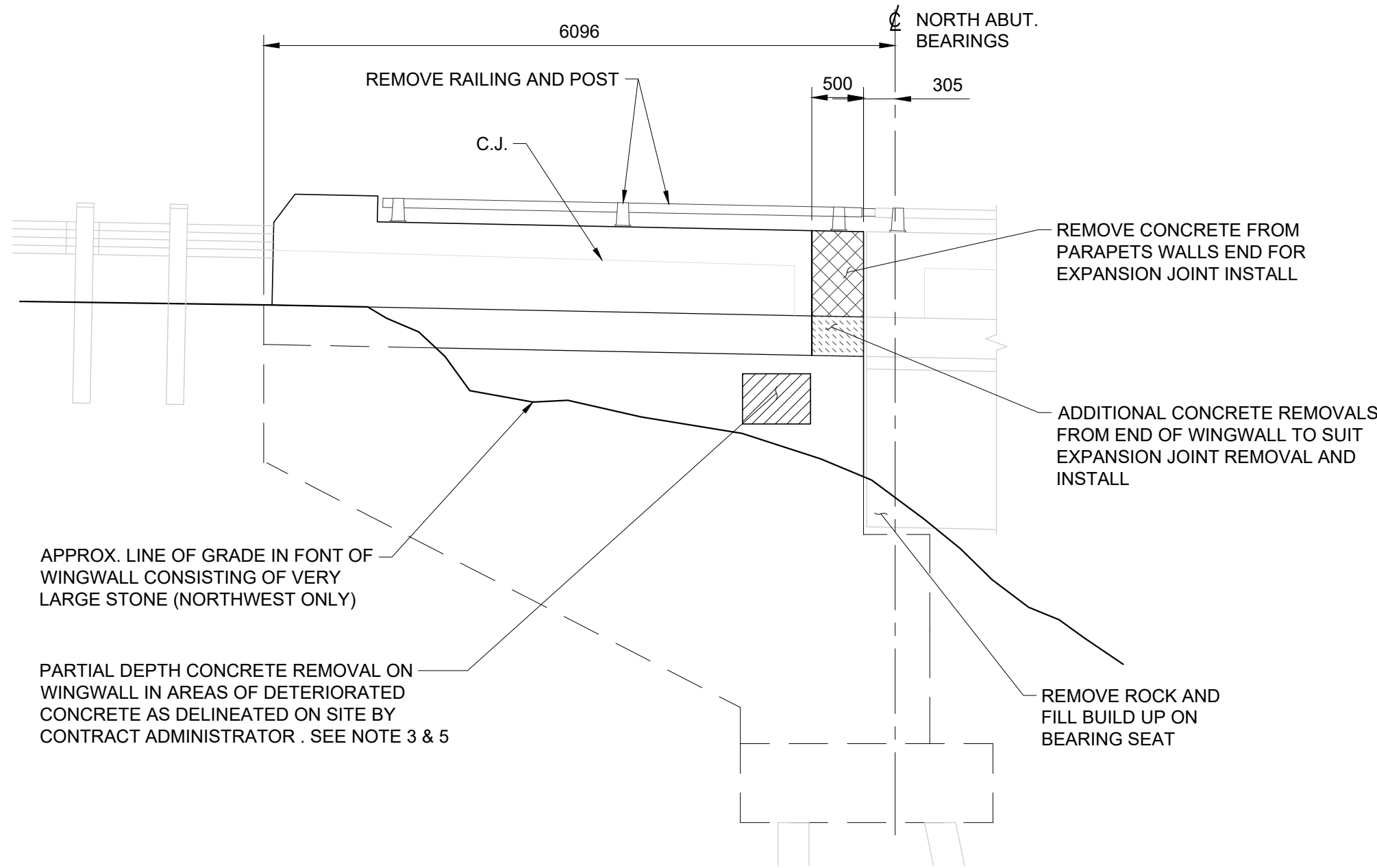
FULL DEPTH CONCRETE REMOVAL
OF APPROACH SLAB.



PARTIAL DEPTH CONCRETE REMOVALS
IN TOP OF BALLAST WALL, END OF
SIDEWALK AND CURB DOWN TO OF
ABUTMENT CLEAT

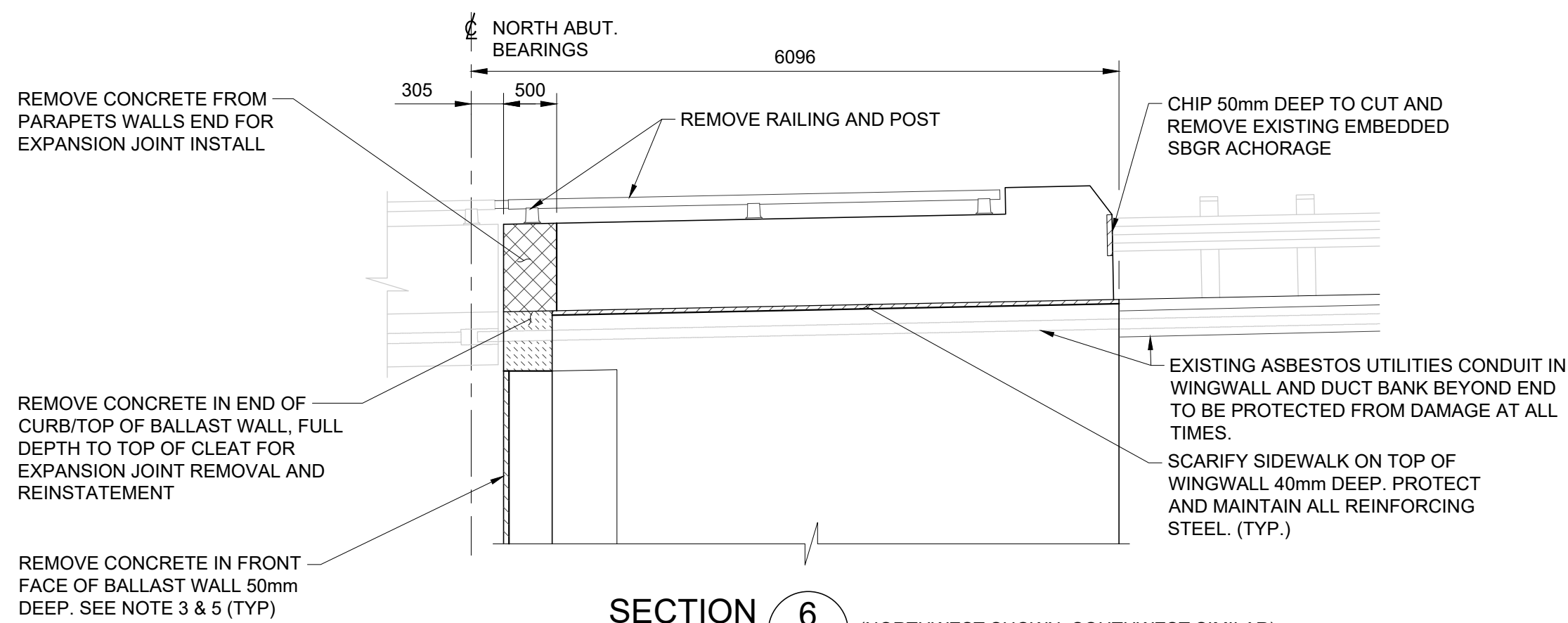


SCARIFYING CONCRETE CURB
AND SIDEWALK. MAINTAIN ALL
REINFORCING STEEL



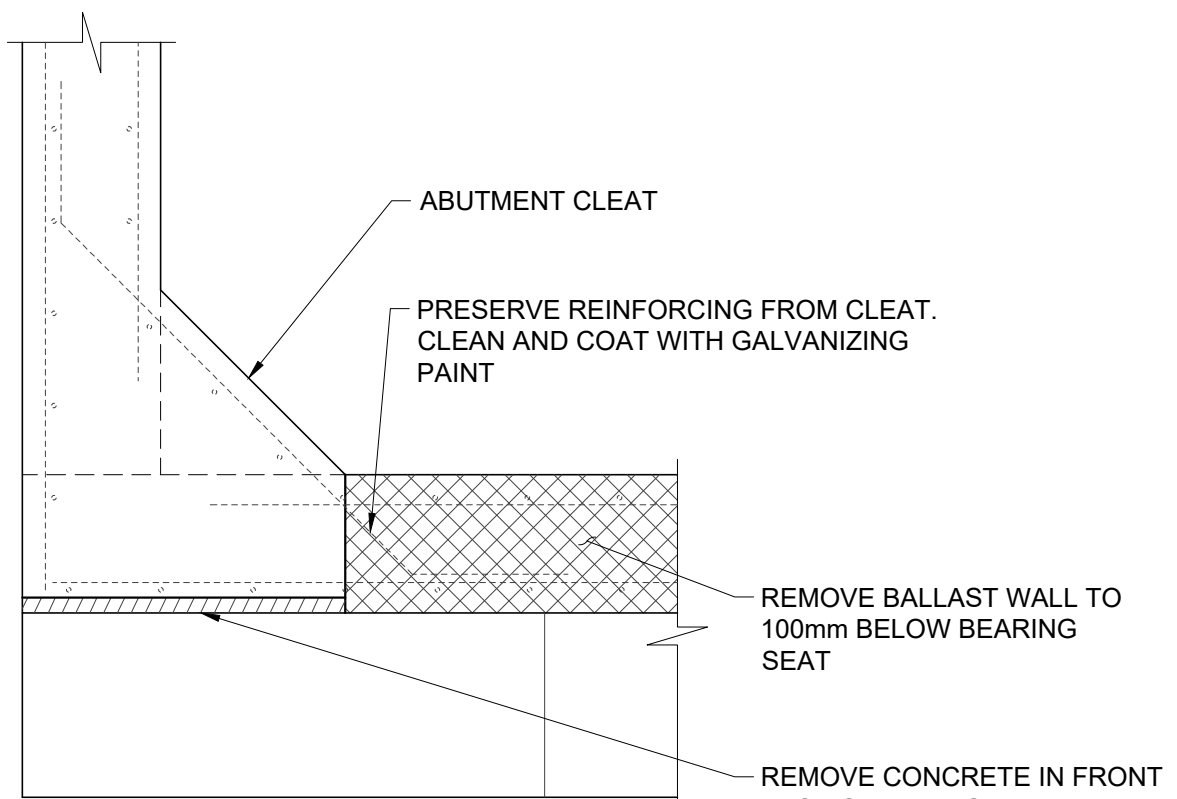
SECTION 4
1:50 08

(NORTHWEST SHOWN, REMAINDER SIMILAR)



SECTION 6
1:50 08

(NORTHWEST SHOWN, SOUTHWEST SIMILAR)

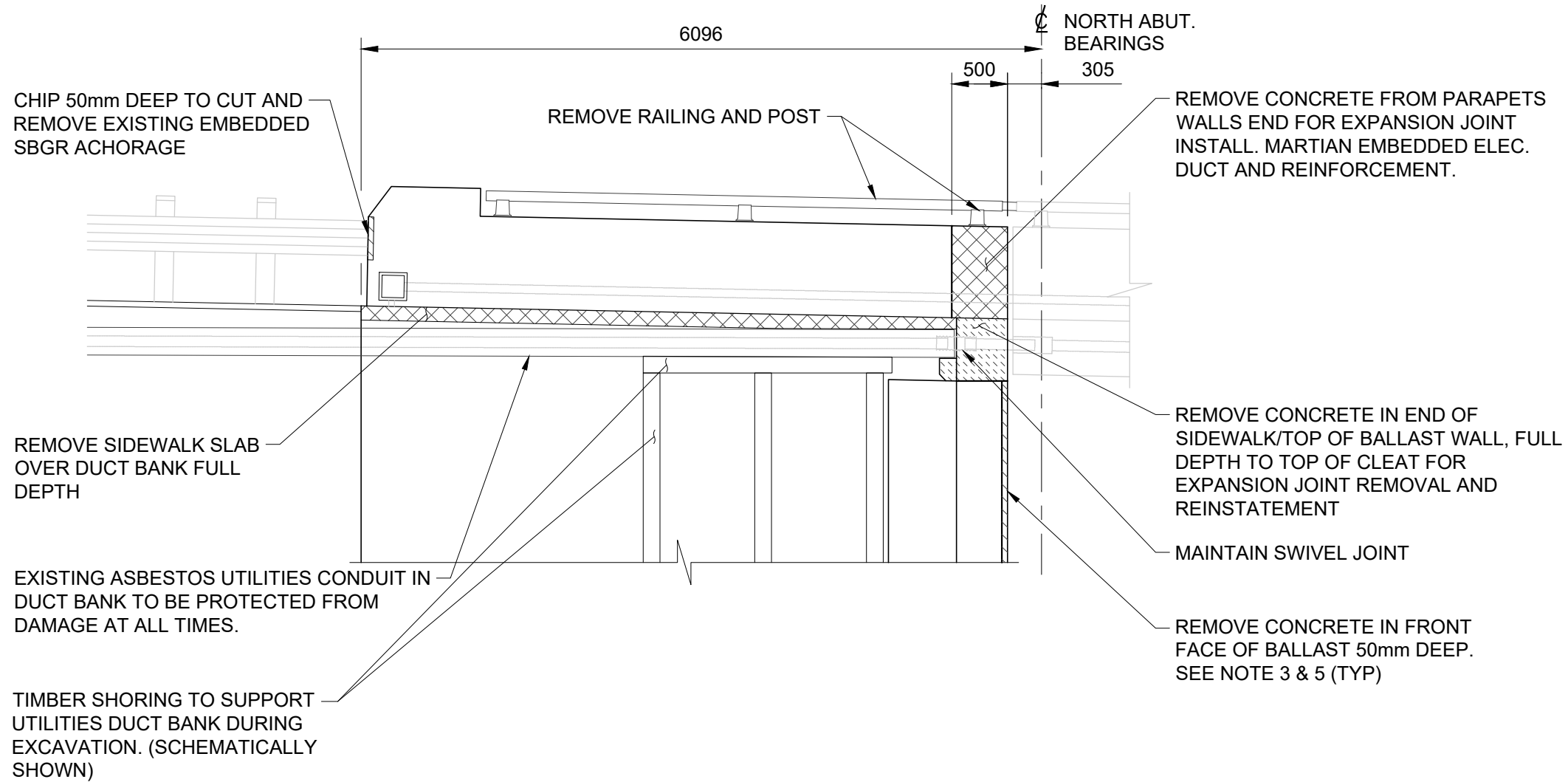


SECTION 7
1:25 07

REMOVE CONCRETE IN FRONT
FACE OF BALLAST 50mm DEEP.
FROM TOP OF CLEAT DOWN TO
BEARING SEAT. SEE NOTE 3 & 5

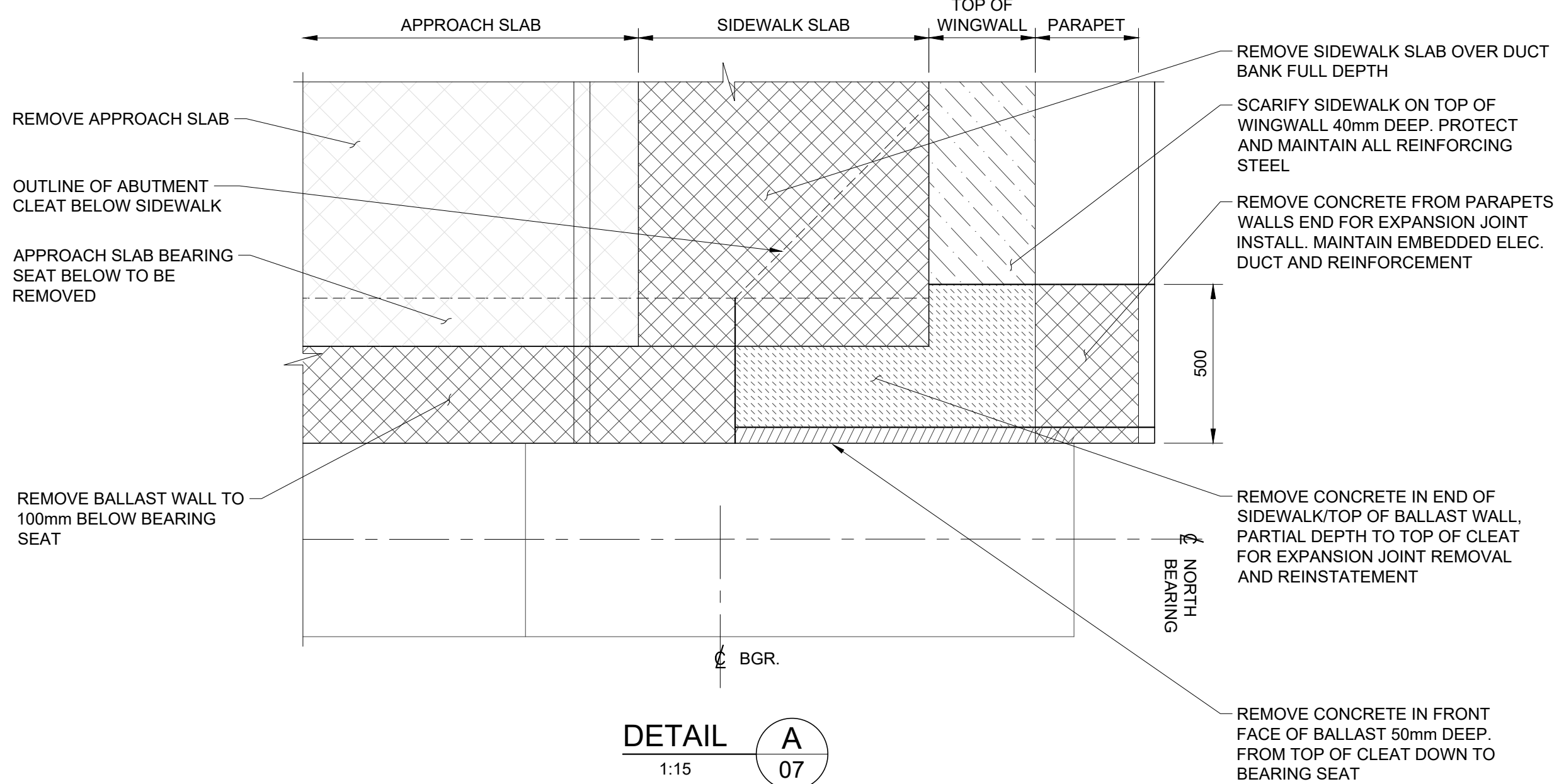
NOTE:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
- * = WIDTH OF GAP VARIES AND IS BASED ON THE TEMPERATURE OF THE STRUCTURE
- PROTECT AND MAINTAIN ALL REINFORCING STEEL. ABRASIVE BLAST CLEAN EXISTING REINFORCING AND COAT WITH GALVANIZING PAINT, UNLESS NOTED OTHERWISE.
- REMOVE EXISTING HORIZONTAL REINFORCING, PROTECT AND MAINTAIN 300mm OF VERTICAL BARS AND BARS FROM CLEAT REINFORCING STEEL. ABRASIVE BLAST CLEAN EXISTING REINFORCING AND COAT WITH GALVANIZING PAINT.
- FOR DETAILS OF PARTIAL DEPTH REMOVAL SEE DWG. 22.
- THE EXTENTS OF ALL CONCRETE REMOVALS TO BE DELINEATED WITH 25mm DEEP SAWCUT.
- ALL WORK TO BE CARRIED OUT IN STAGES.
- 6 DUCTS WITH 6 BELL CABLES IN EAST SIDEWALK AND 2 DUCTS WITH 3 BELL IN WEST CURB TO BE POSITIVELY LOCATED, TREATED AS LIVE AND PROTECTED FROM DAMAGE AT ALL TIMES.
- ELEVATION FOR TOP OF EXISTING SIDEWALK/CURB SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.
- FOLLOWING PARAPET RAILING REMOVAL, FILLING ANCHOR HOLES WITH



SECTION 5
1:50 08

(NORTHEAST SHOWN, SOUTHEAST SIMILAR)



DETAIL A
1:15 07

EPOXY GROUT.



300-2511 QUEENSWAY DRIVE
OTTAWA (ONTARIO)
CANADA K2B 8K2
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K8A 6W5
613-732-4353



PROJECT:

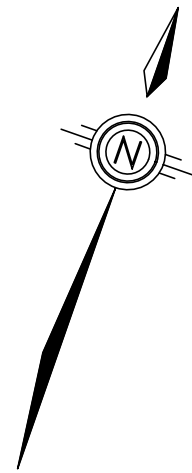
PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

ABUTMENT REMOVALS - DETAILS

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 08
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

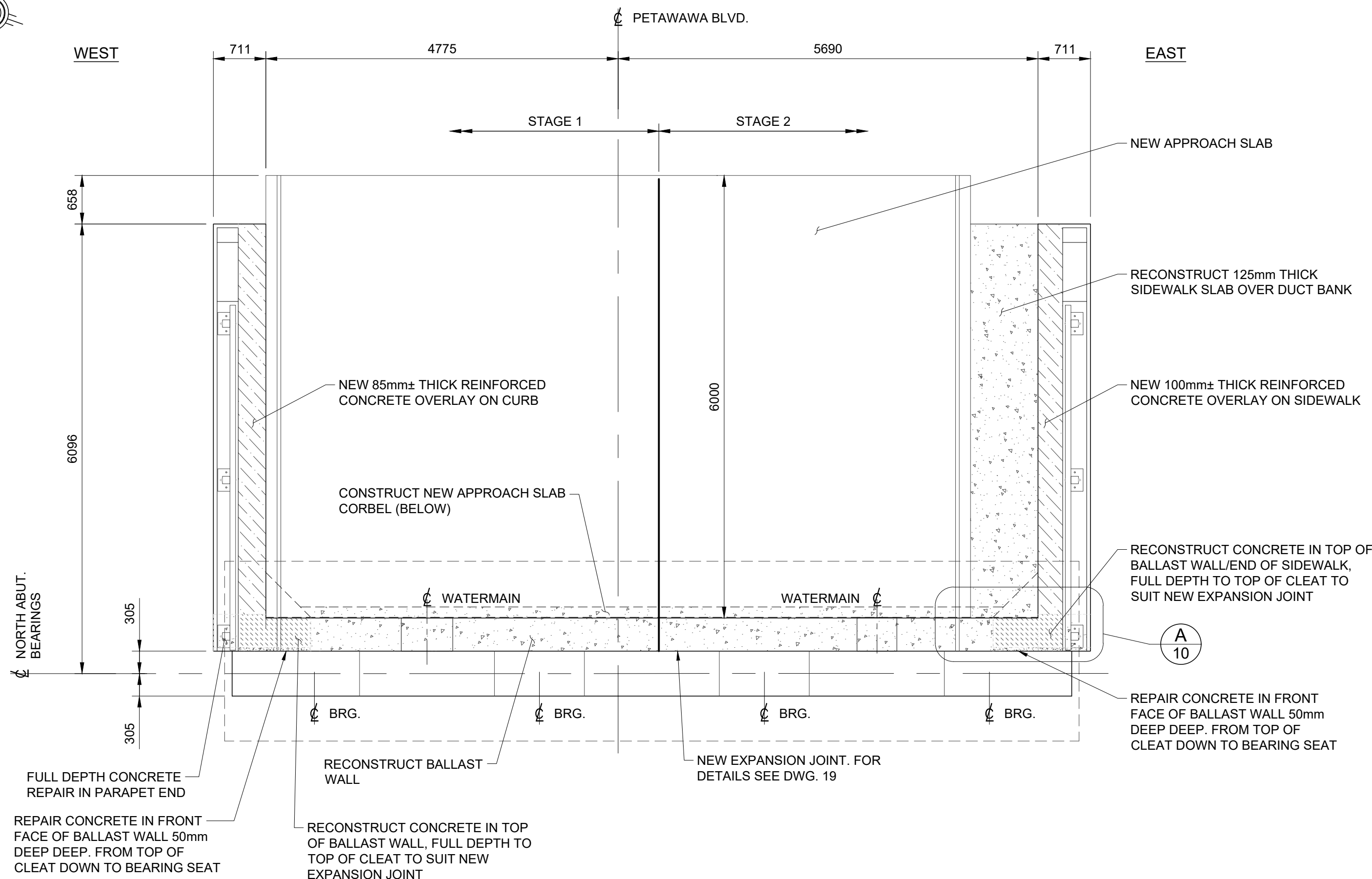


LEGEND:

- NEW FULL DEPTH CONCRETE, (APPROCH SLAB, BALLAST WALL, SIDEWALK SLAB, PARAPET WALL RECONSTRUCTION)
- PARTIAL DEPTH CONCRETE REPAIRS IN TOP OF BALLAST WALL, END OF SIDEW AND CURB DOWN TO OF ABUTMENT CL
- PARTIAL DEPTH CONCRETE REPAIRS, (IN FACE OF BALLAST WALL, WINGWALLS)
- CONCRETE OVERLAY ON CURB AND SIDEWALK ATOP WINGWALL

NOTE:

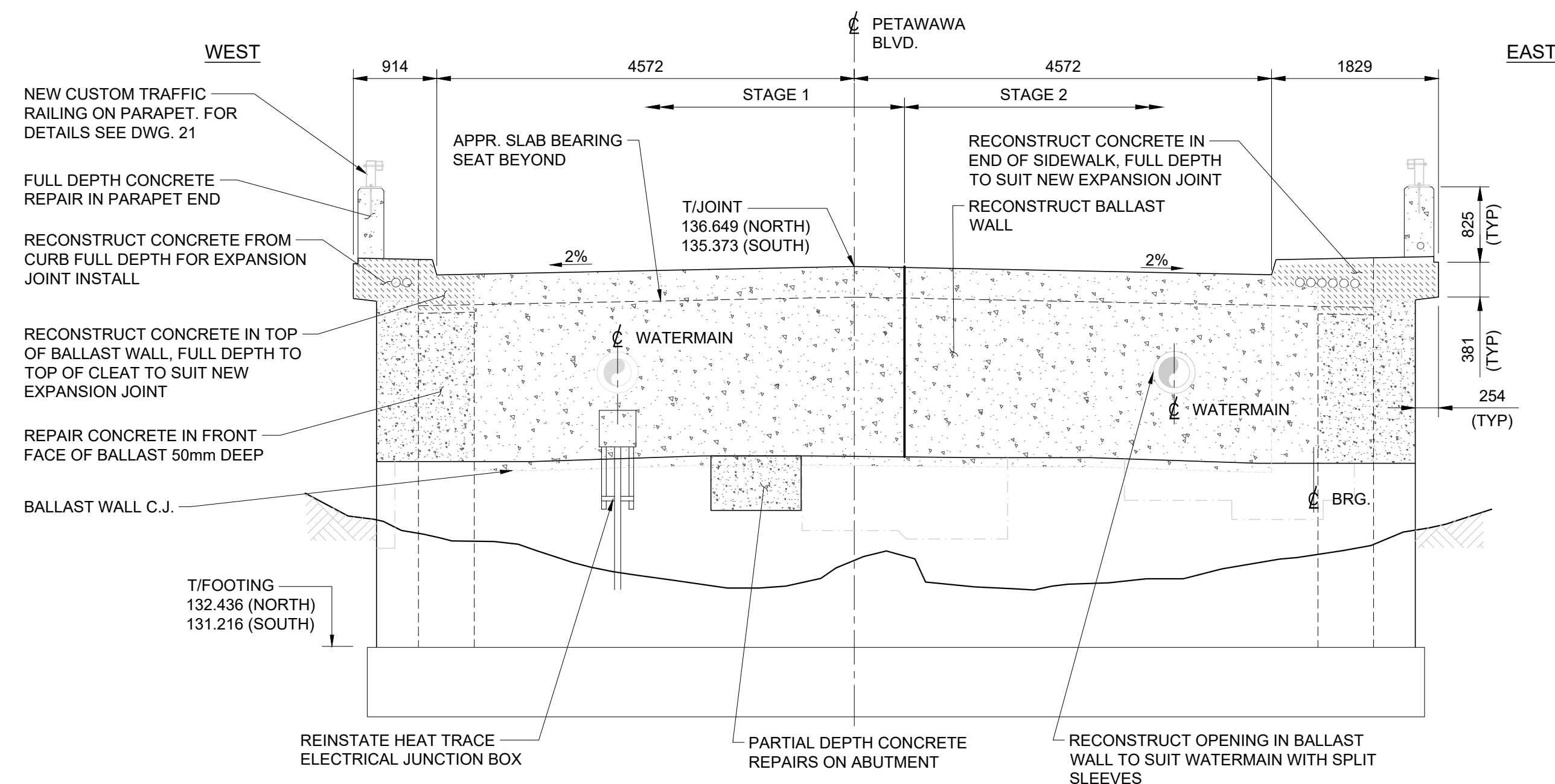
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
2. J = DENOTES EXPANSION GAP. SEE EXPANSION JOINT DRAWINGS.
3. LOCATIONS AND SIZE OF PARTIAL AND FULL DEPTH REPAIRS ON ABUTMENTS ARE SCHEMATICALLY SHOWN FOR BIDDING PROPOSE ONLY. ACTUAL AREAS TO BE DELINEATED ON SITE BY CONTRACT ADMINISTRATOR
4. FOR DETAILS OF PARTIAL DEPTH REPAIRS SEE DWG. 22.
5. ALL WORK TO BE CARRIED OUT IN STAGES.
6. 6 DUCTS WITH 6 BELL CABLES IN EAST SIDEWALK AND 2 DUCTS WITH 3 BELL IN WEST CURB TO BE POSITIVELY LOCATED, AND PROTECTED FROM DAMAGE AT ALL TIMES.



PLAN - NORTH ABUTMENT - RECONSTRUCTION

1:50

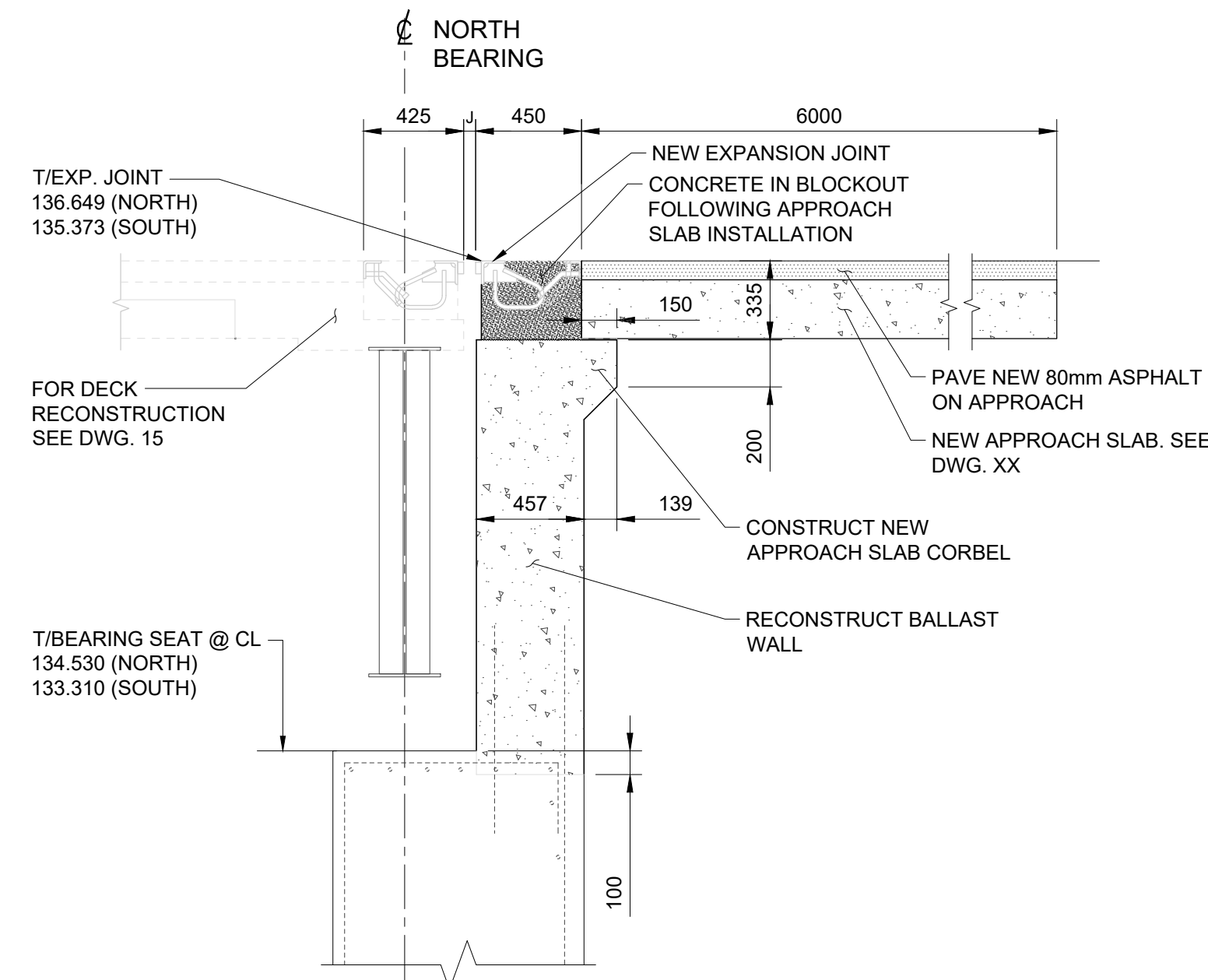
(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



ELEVATION - NORTH ABUTMENT - RECONSTRUCTION

1:50

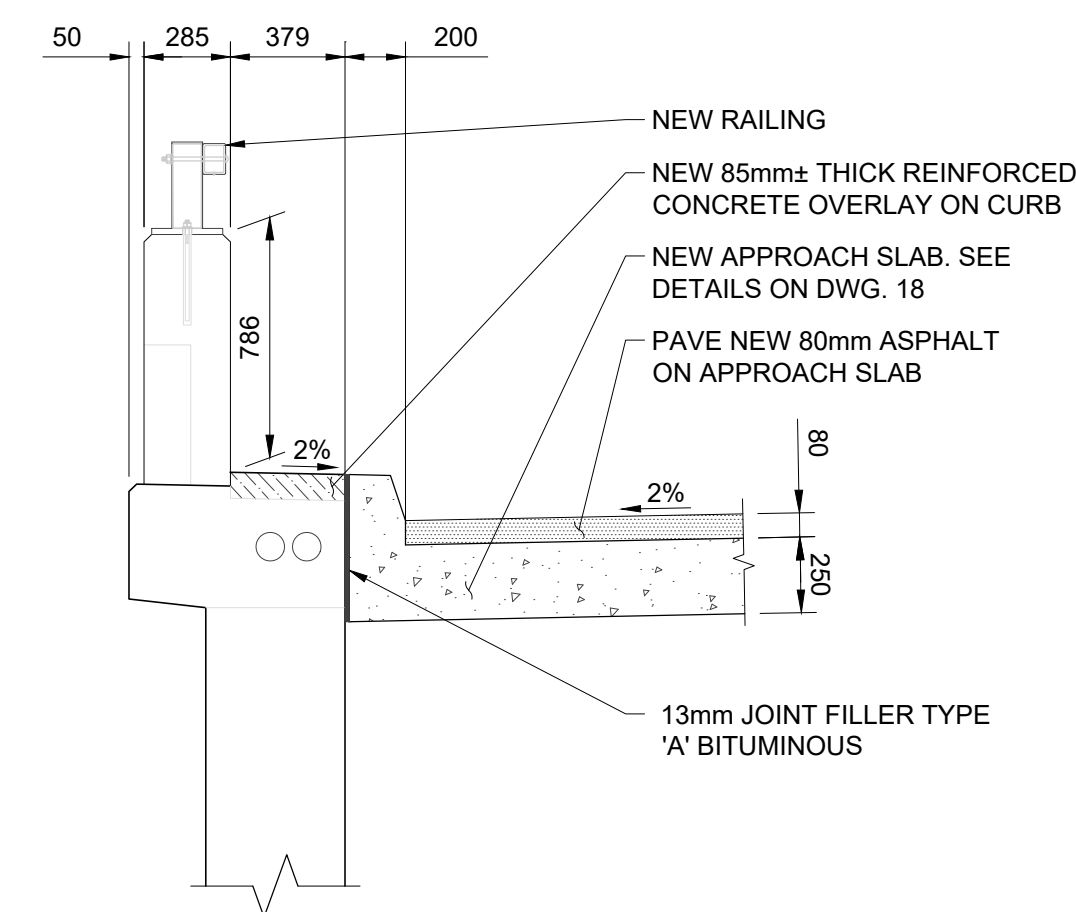
(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



SECTION 1

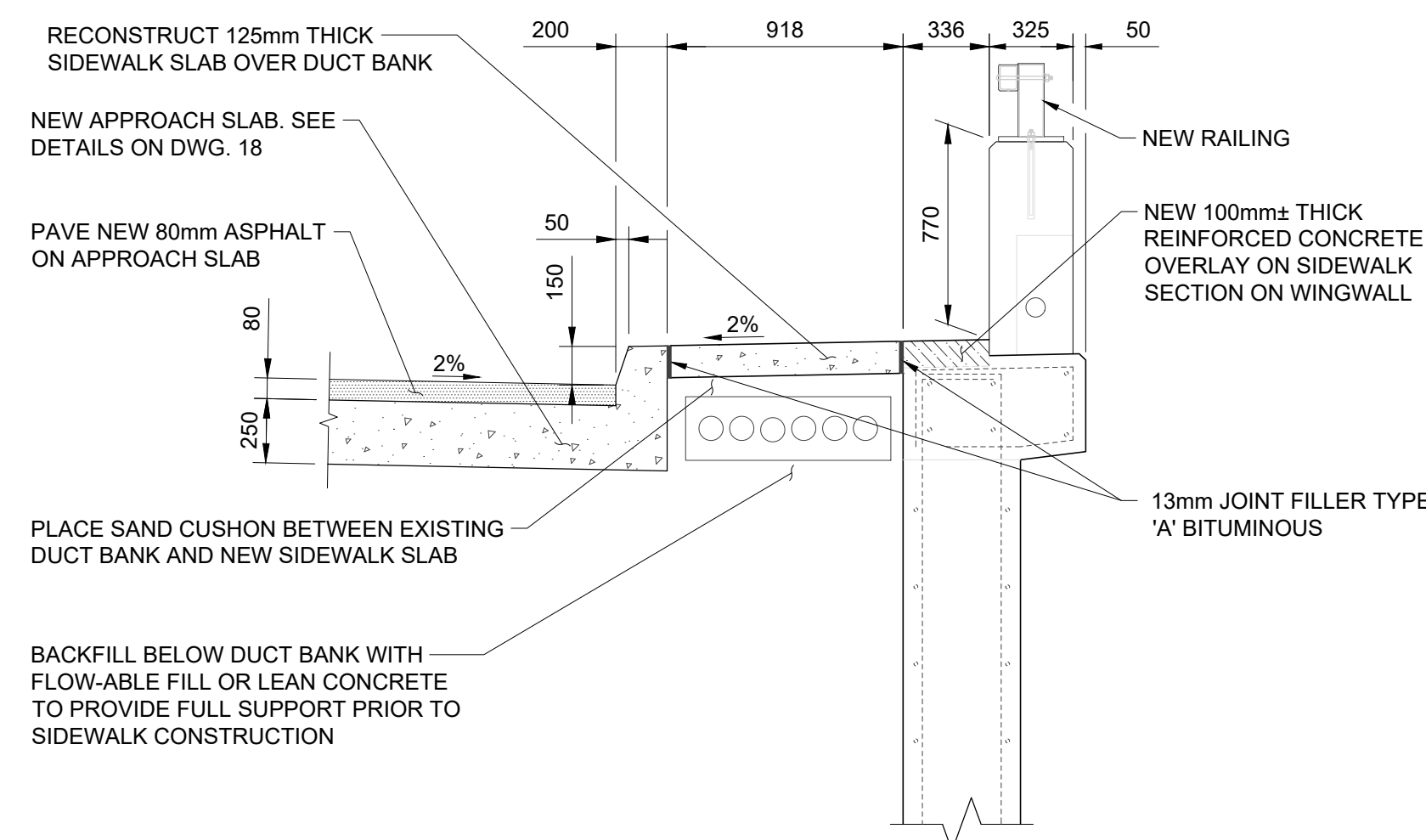
1:30

(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)



SECTION 2

1:25



SECTION 3

1:25



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PEMBROKE ONTARIO
K8A 6W5
613-732-4353



PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

ABUTMENT RECONSTRUCTION

DESIGN BY:

Z.F.W.

DRAWN BY:

A.E.M.

CHECKED BY:

APPROVED BY:

DATE DRAWN :

FEB 2022

PROJECT # :

211-13633-00

SCALE:

HOR. AS SHOWN

VERT. AS SHOWN

DRAWING # :

09

DATE PRINTED :

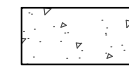
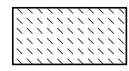
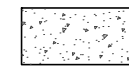
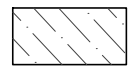
March 4, 2022

FILE # :

PWC-2021-56

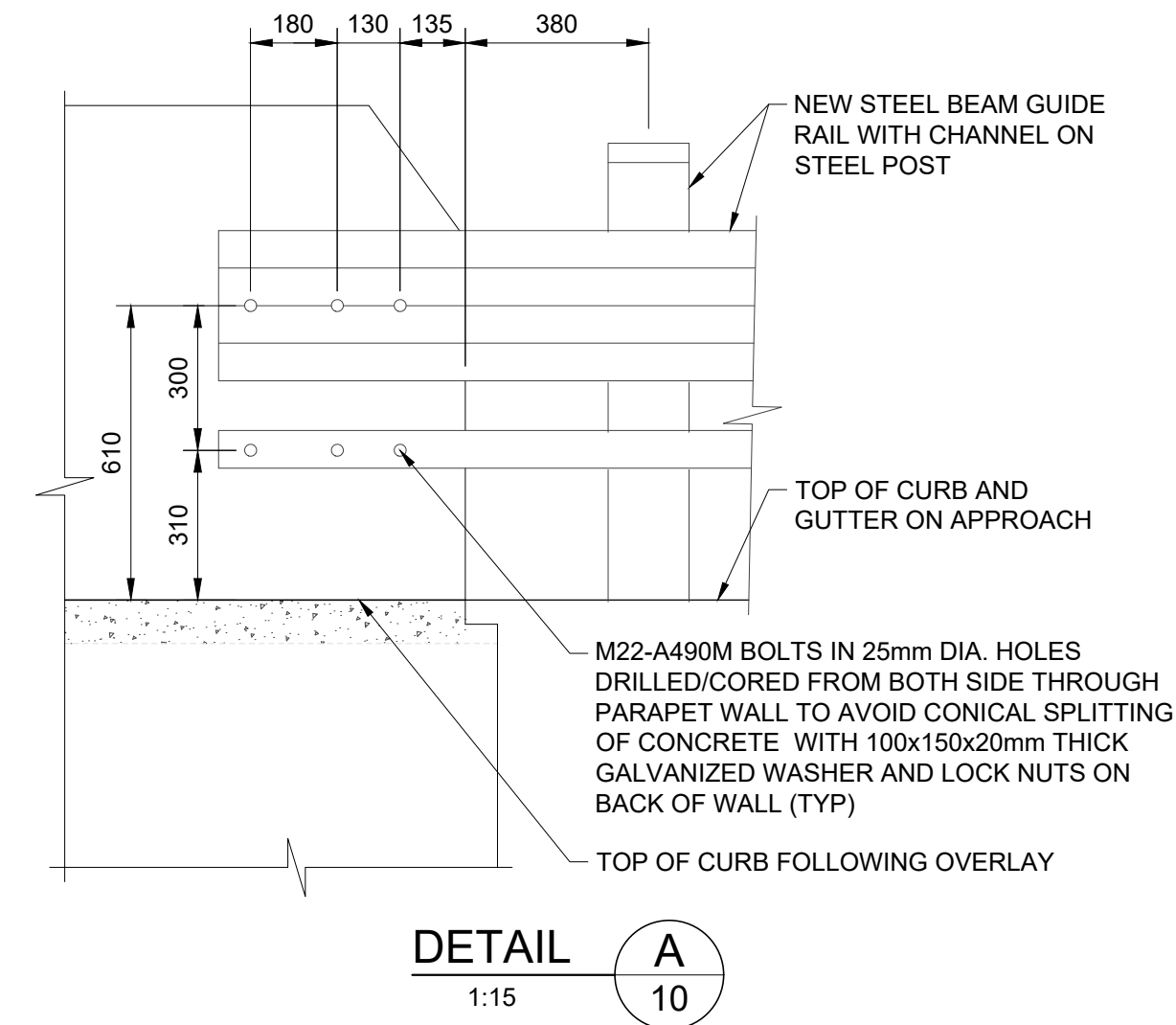
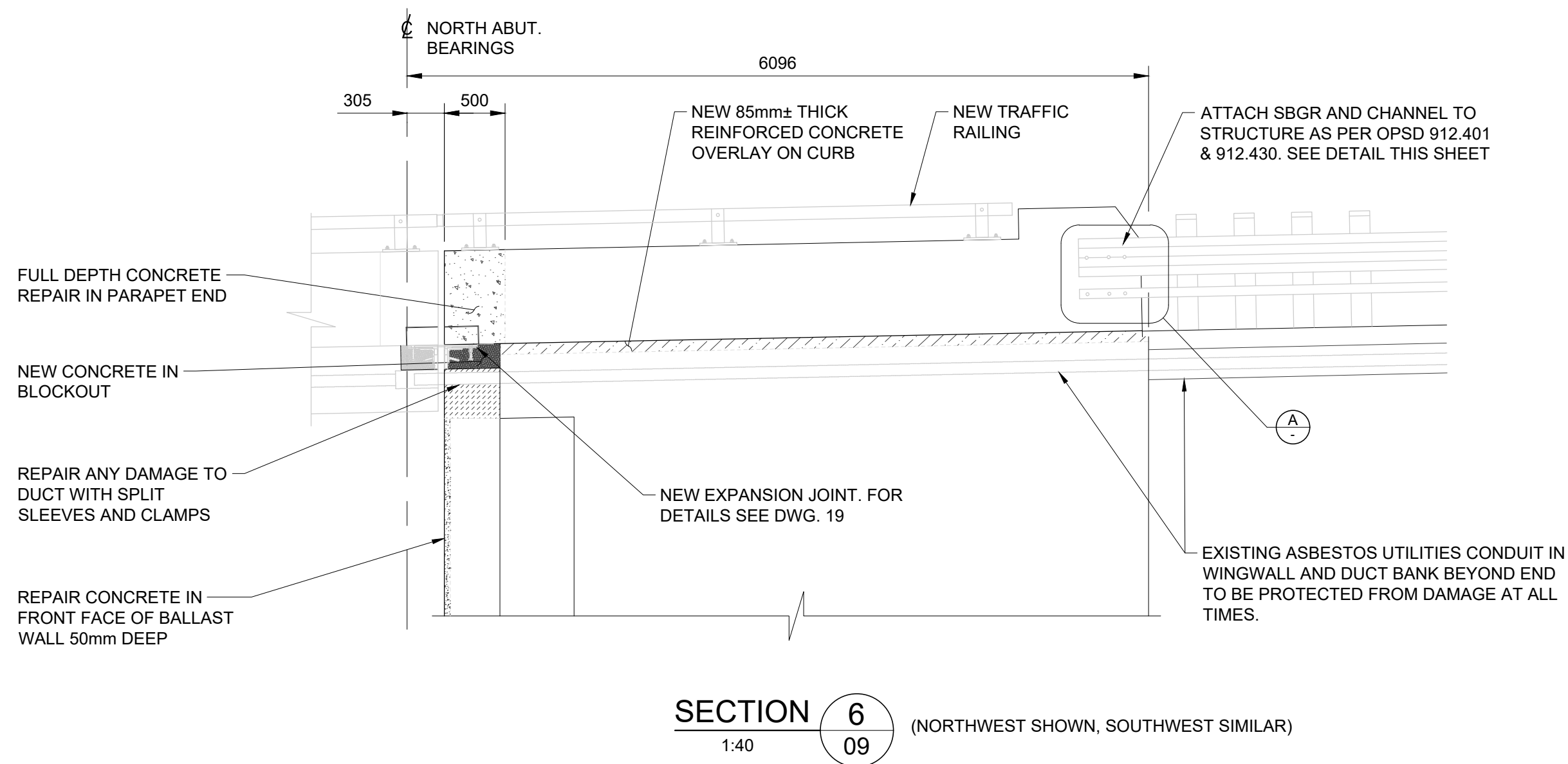
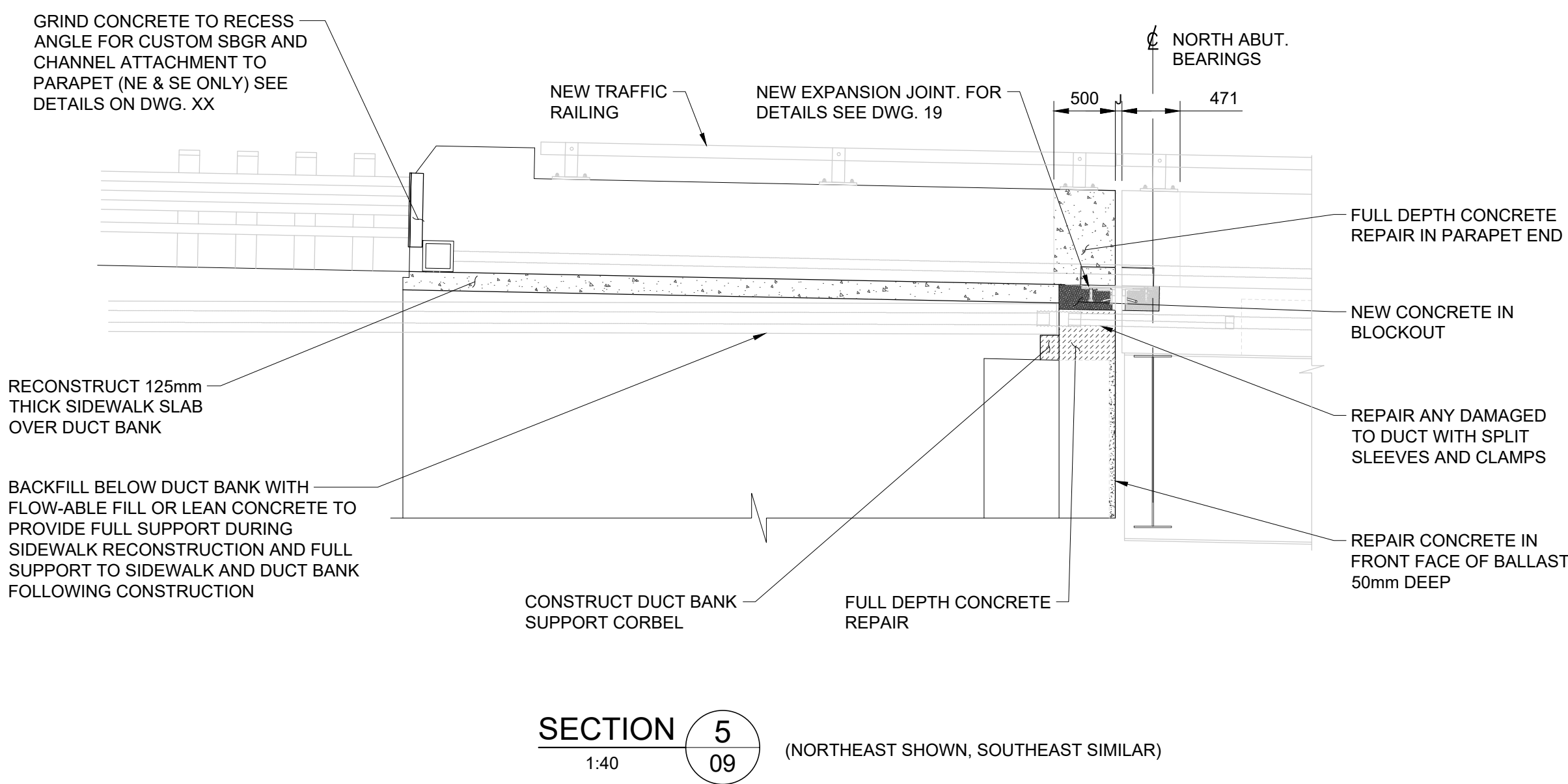
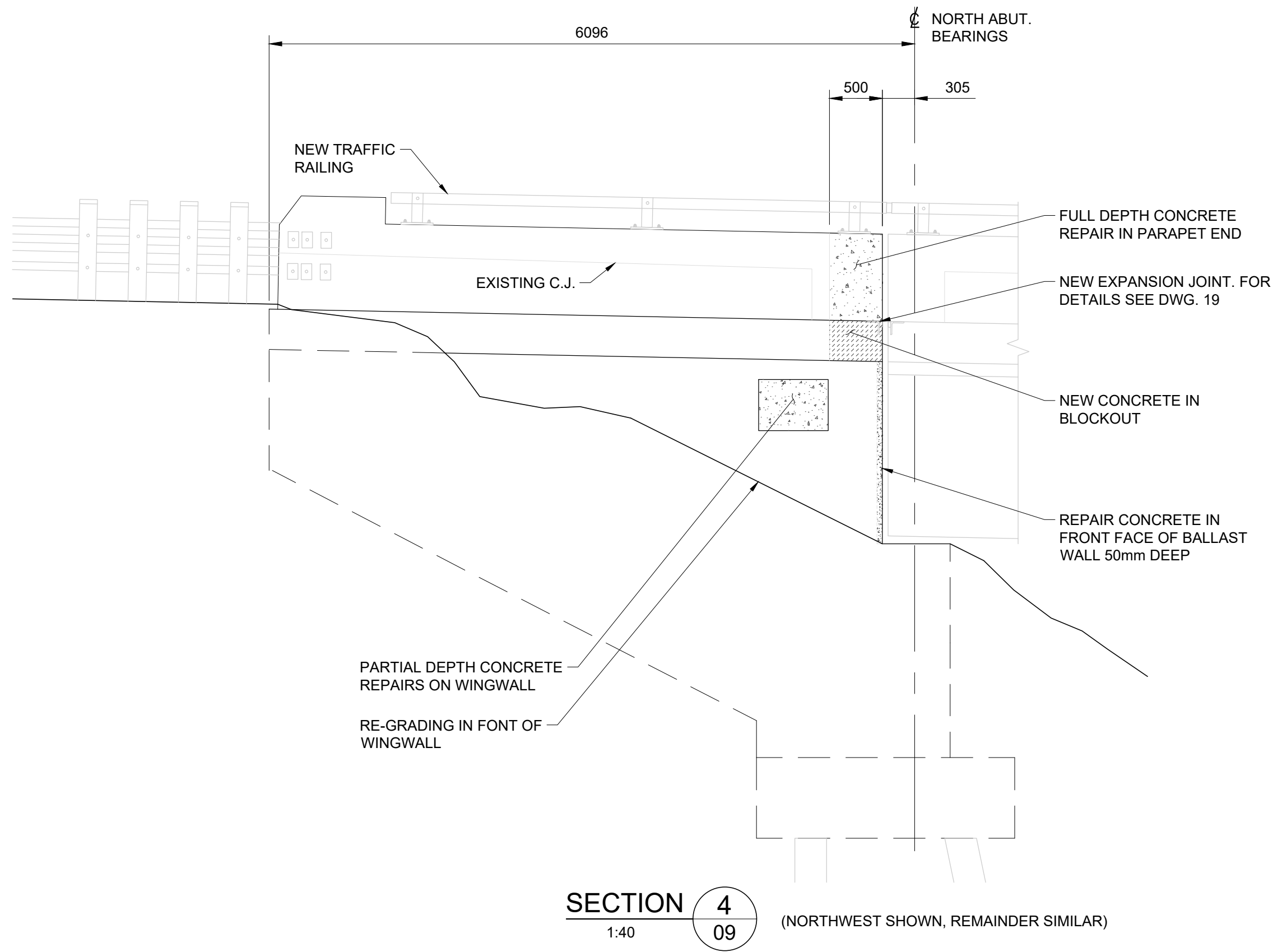
OF


LEGEND:

-  NEW FULL DEPTH CONCRETE, (APPROCH SLAB, BALLAST WALL, SIDEWALK SLAB, PARAPET WALL RECONSTRUCTION)
-  PARTIAL DEPTH CONCRETE REPAIRS TOP OF BALLAST WALL, END OF SIDE AND CURB DOWN TO OF ABUTMENT
-  PARTIAL DEPTH CONCRETE REPAIRS (IN FACE OF BALLAST WALL, WINGWALLS AND ABUTMENT)
-  CONCRETE OVERLAY ON CURB AND SIDEWALK ATOP WINGWALL

NOTE:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
- J = DENOTES EXPANSION GAP. SEE EXPANSION JOINT DRAWINGS.
- LOCATIONS AND SIZE OF PARTIAL AND FULL DEPTH REPAIRS ON ABUTMENTS ARE SCHEMATICALLY SHOWN FOR BIDDING PROPOSE ONLY. ACTUAL AREAS TO BE DELINEATED ON SITE BY CONTRACT ADMINISTRATOR
- FOR DETAILS OF PARTIAL DEPTH REPAIRS SEE DWG. 22.
- ALL WORK TO BE CARRIED OUT IN STAGES.
- 6 DUCTS WITH 6 BELL CABLES IN EAST SIDEWALK AND 2 DUCTS WITH 3 BELL IN WEST CURB TO BE POSITIVELY LOCATED, AND PROTECTED FROM DAMAGE AT ALL TIMES.






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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

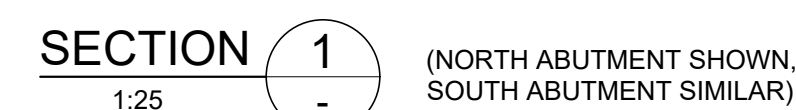
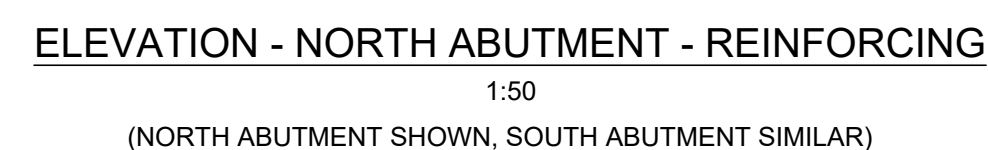
DRAWING:

ABUTMENT RECONSTRUCTION
- DETAILS

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 10
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

- NOTE:**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
 2. J = DENOTES EXPANSION GAP. SEE EXPANSION JOINT DRAWINGS.
 2. ALL WORK TO BE CARRIED OUT IN STAGES.
 3. MECHANICAL CONNECTORS AND 600MM LONG SPLICING BARS TO MATCH REINFORCING TO BE PROVIDED FOR HORIZONTAL REINFORCING CROSSING THE CONSTRUCTION STAGING JOINT IN APPROACH SLAB.



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ABUTMENT REINFORCING

DRAWN BY:
A.E.M.

	APPROVED BY:
--	--------------

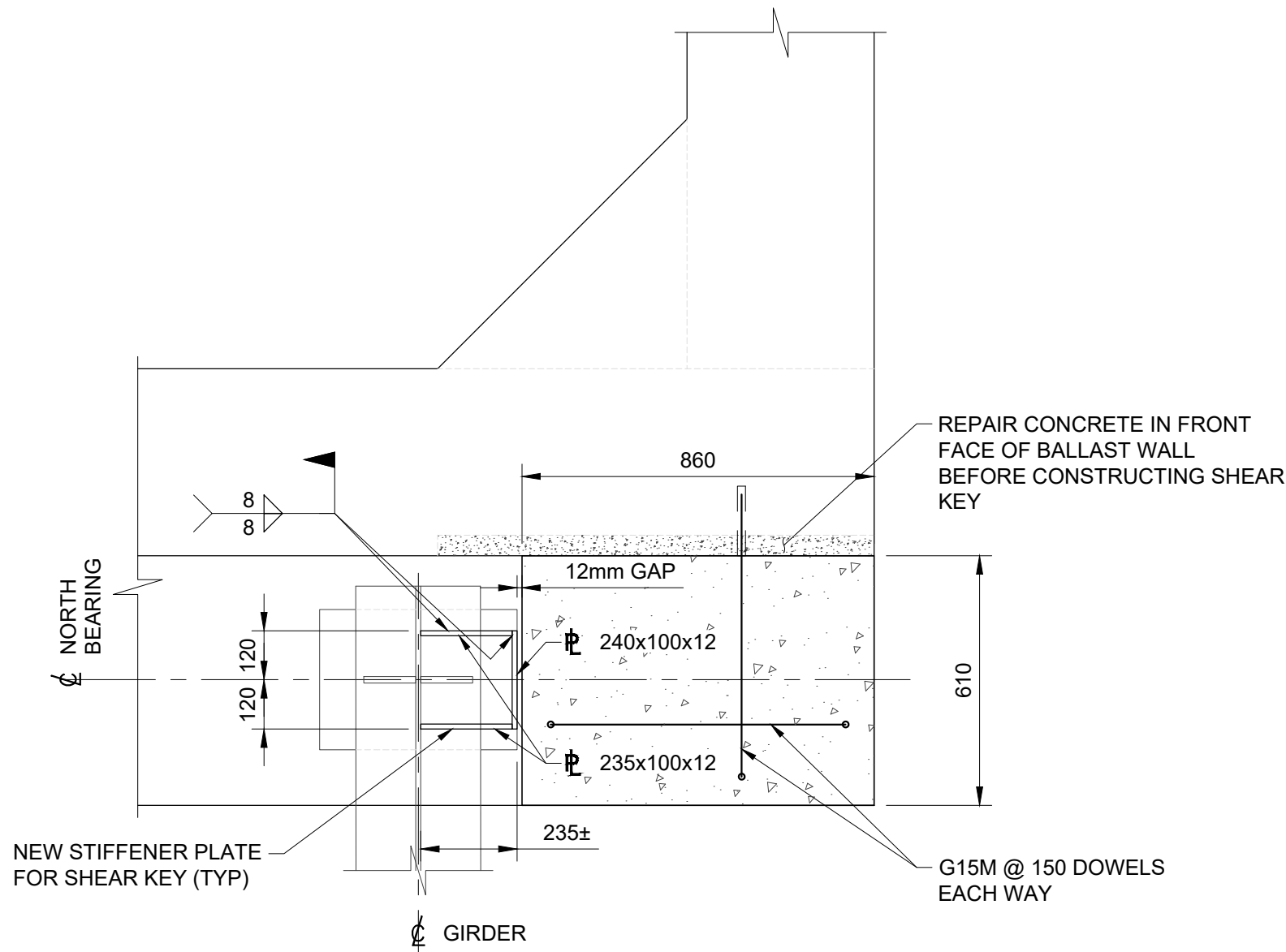
PROJECT #:	211-13633-00
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	DRAWING # :
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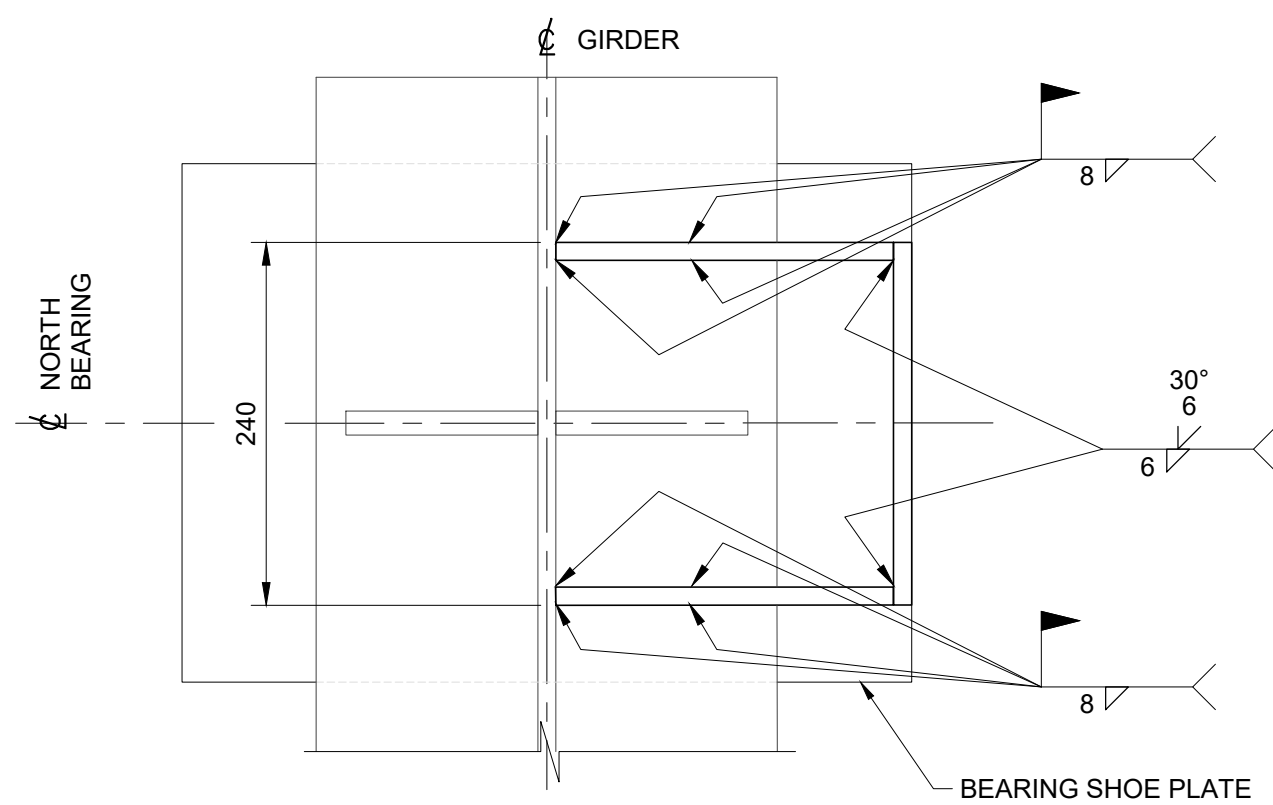
FILE # :	PWC-2021-56
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FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Rehab\SHEETS\211-13633-00_BRG_10_ABUT NEW.dwg
PLOT DATE: Mar 04, 2022 - 9:25am
DRAWN BY: Meesmer, Adrian

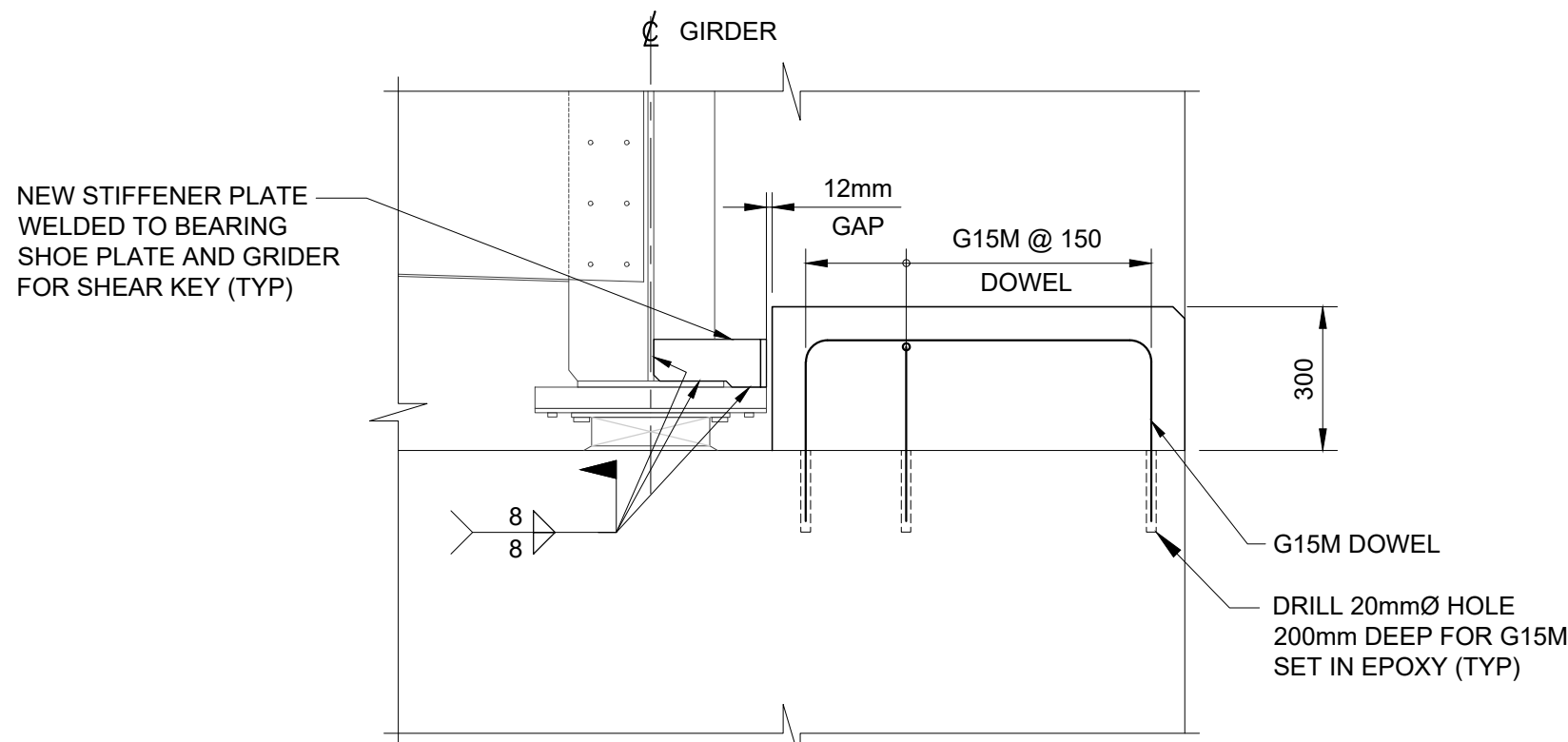
(A1 841mm x 594mm)



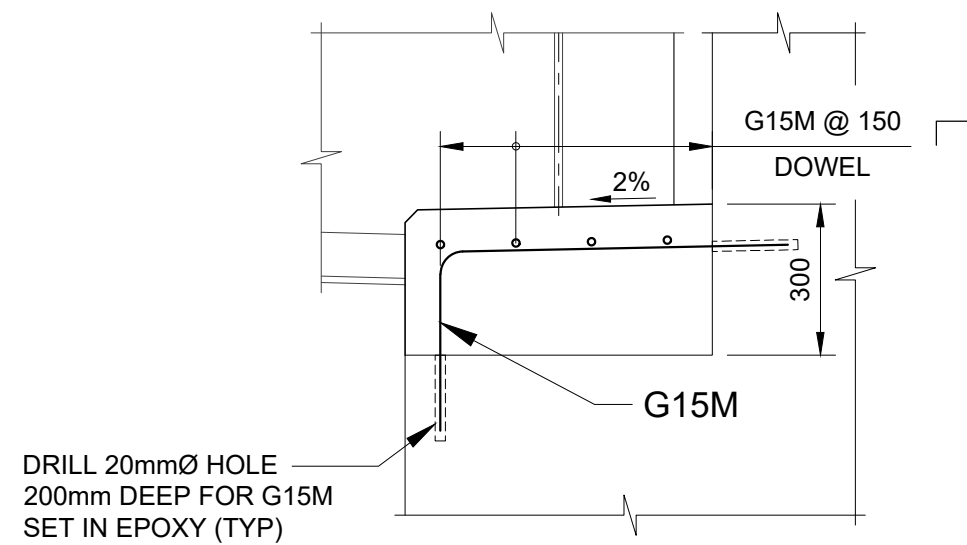
ABUTMENT SHEAR KEY DETAIL
1:15



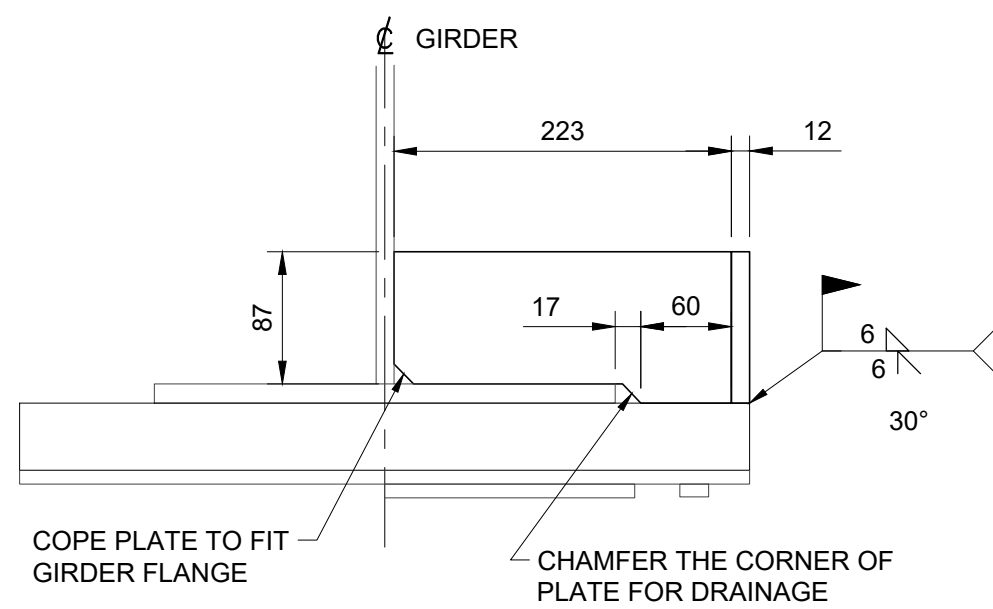
SHEAR KEY STIFFENER - PLAN
1:5



SECTION 1
1:15



SECTION 2
1:15



SHEAR KEY STIFFENER - ELEVATION
1:5

NOTE:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.



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PROJECT:

PETAWAWA RIVER BRIDGE
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REHABILITATION
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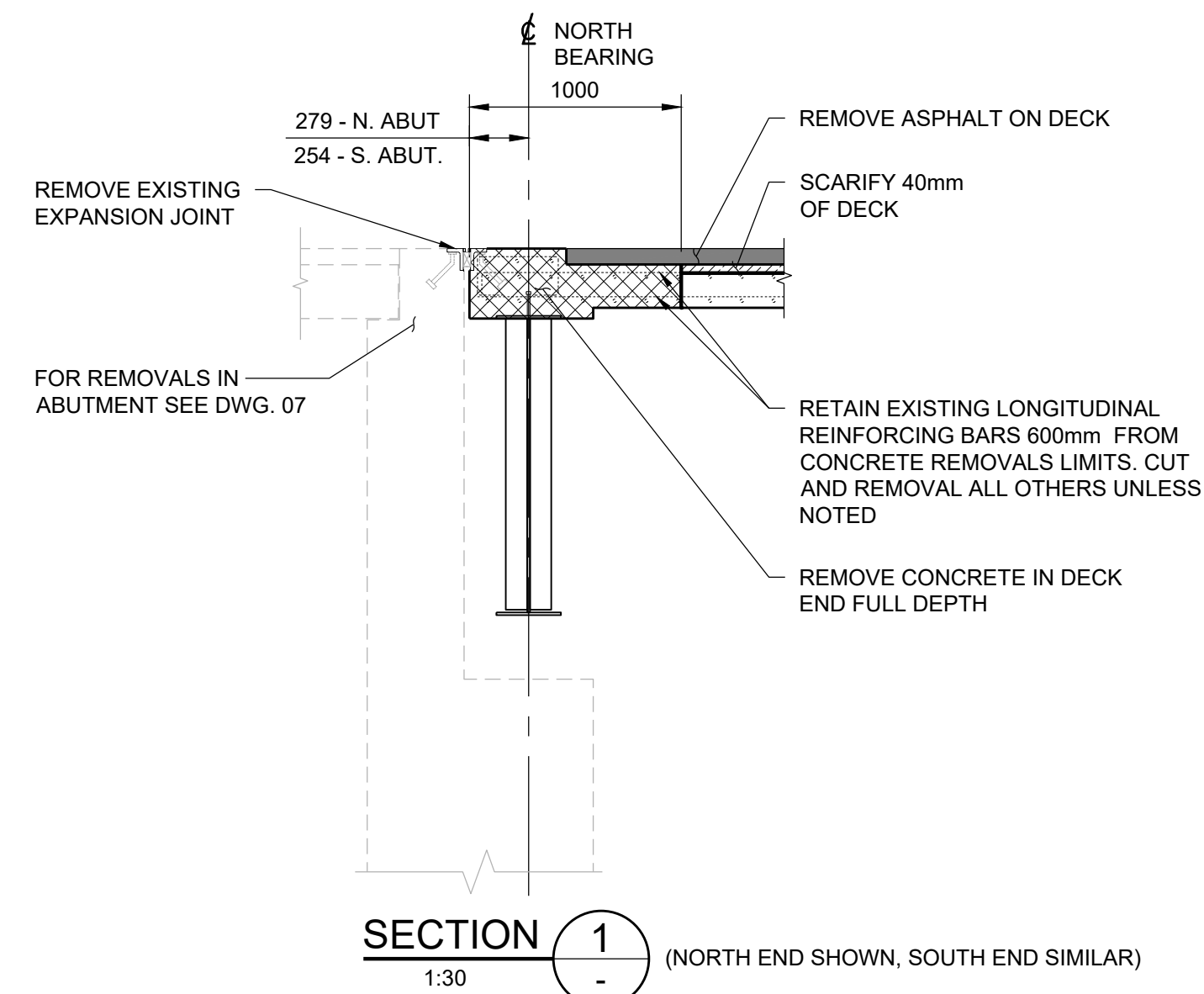
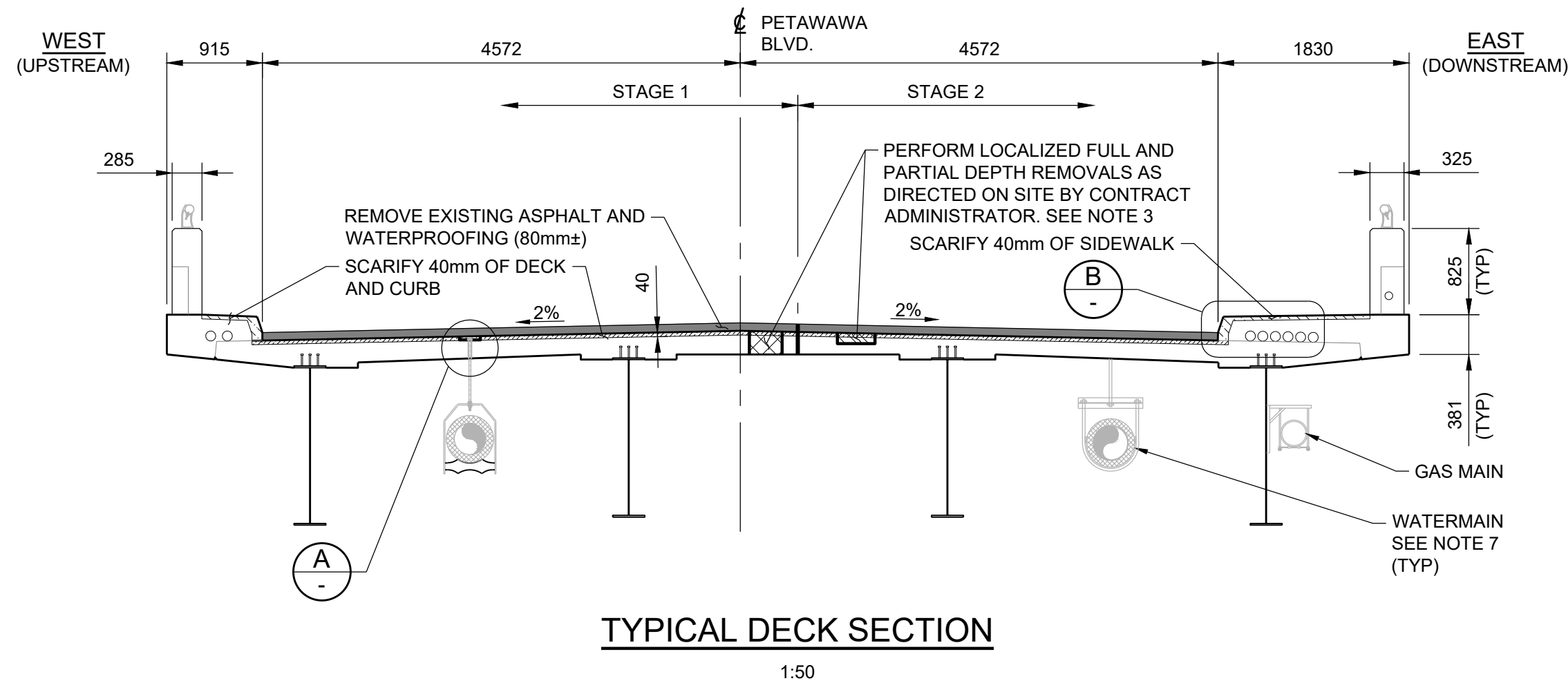
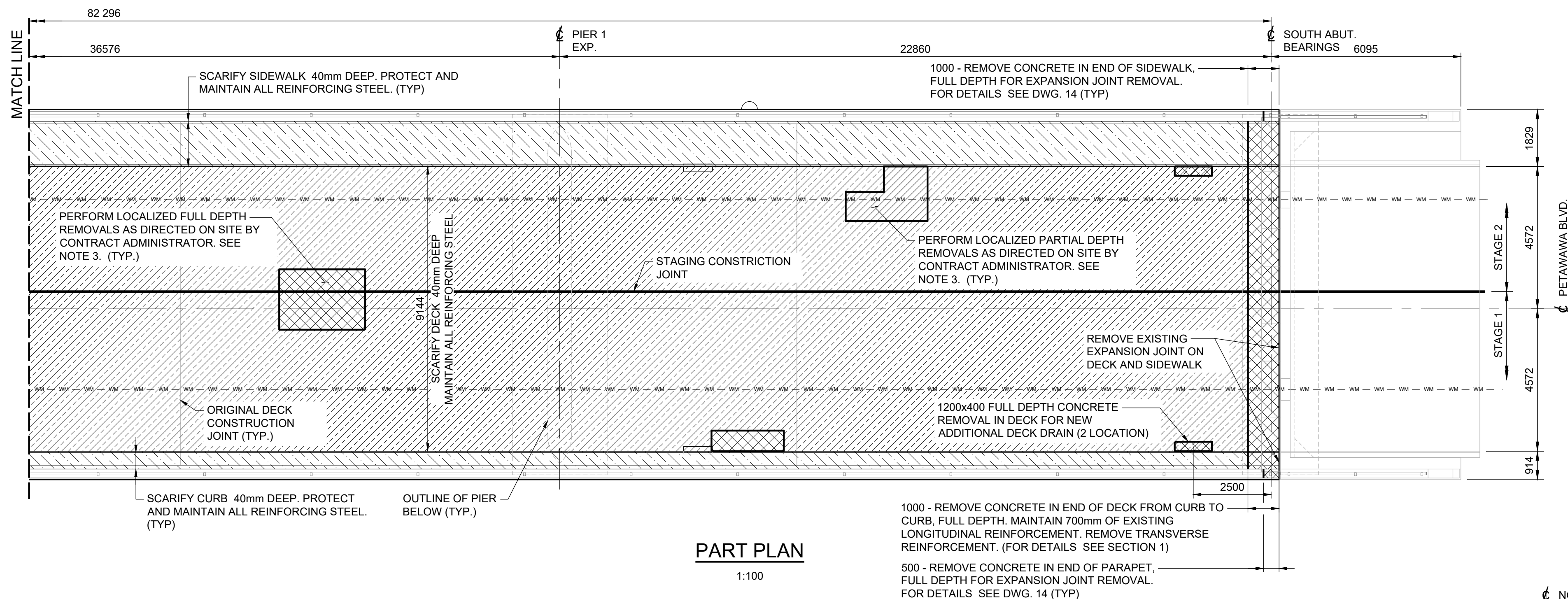
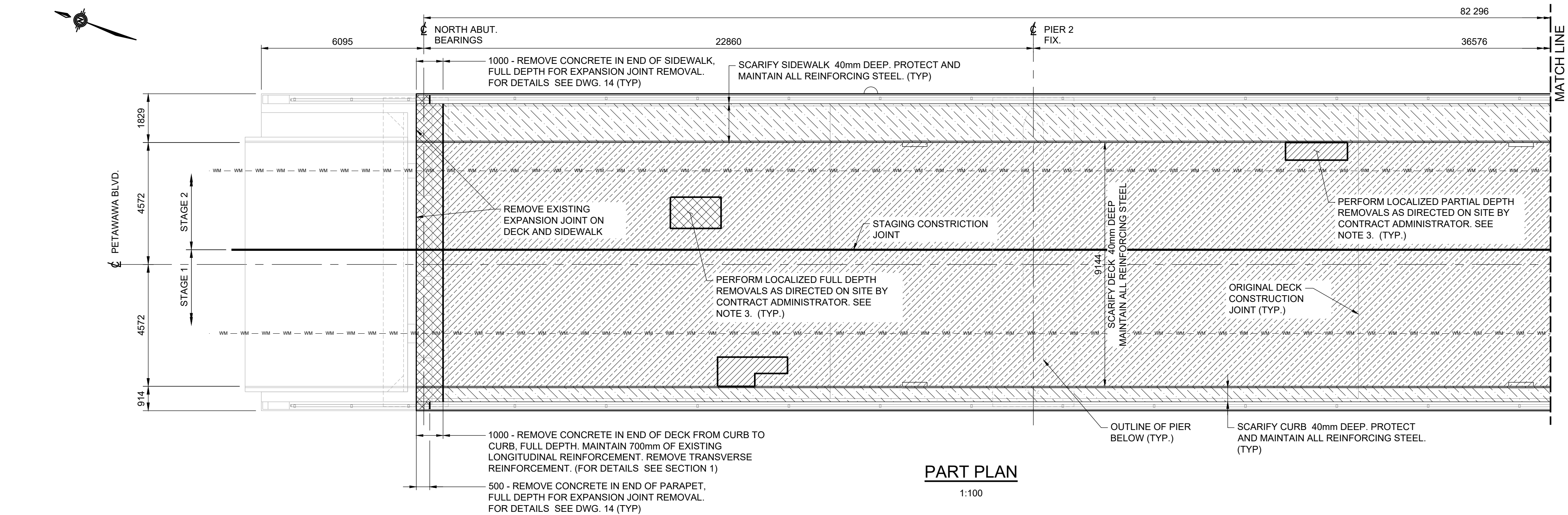
DRAWING:

ABUTMENT SHEAR KEY

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 12
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Renfrew\Drawings\211-13633-00_BRL-10_DECK_REM.dwg
PLOT DATE: May 04, 2022 - 9:25am
DRAWN BY: M. F. M. / A. F. M.

(A1 841mm x 594mm)



NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02. ELEVATION FOR TOP OF EXISTING DECK SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.
- LOCATIONS AND SIZE OF PARTIAL AND FULL DEPTH REMOVALS ON DECK ARE SCHEMATICALLY SHOWN FOR BIDDING PROPOSE ONLY. ACTUAL AREAS TO BE DELINEATED ON SITE BY CONTRACT ADMINISTRATOR.
- FOR DETAILS OF PARTIAL DEPTH REMOVAL SEE DWG. 22.
- THE EXTENTS OF ALL CONCRETE REMOVALS TO BE DELINEATED WITH 25mm DEEP SAWCUT.
- ALL WORK TO BE CARRIED OUT IN STAGES.
- 6 DUCTS WITH 6 BELL CABLES IN EAST SIDEWALK AND 2 DUCTS WITH 2 BELL IN WEST CURB TO BE POSITIVELY LOCATED, AND PROTECTED FROM DAMAGE AT ALL TIMES.
- ANY FULL OR PARTIAL DEPTH CONCRETE REMOVALS WITHIN 1m OF A WATERMAIN HANGER WILL REQUIRE TEMPORARY SUPPORTS TO GIRDERS BELOW AFFECTED HANGERS.
- SCARIFICATION IS INTENDED TO EXTEND TO THE TIP OF REINFORCING STEEL.
- CLEAN THE DECK AFTER SCARIFICATION AND REQUEST SOUNDING BY CONTRACT ADMINISTRATOR TO CARRY OUT A CHAIN DRAG, MARK UP PARTIAL AND FULL DEPTH REMOVALS AREAS.
- ANCHORS FROM NEWER WATERMAIN INSTALLED IN 2012 WILL INTERFERE WITH MECHANICAL SCARIFICATION. HAND SCARIFICATION WILL BE REQUIRED. REFER TO 2012 REHABILITATION DRAWINGS

LEGEND:

- FULL DEPTH CONCRETE REMOVAL IN DECK.
- PARTIAL DEPTH CONCRETE REMOVALS.
- SCARIFYING CONCRETE CURB AND SIDEWALK. MAINTAIN ALL REINFORCING STEEL.
- SCARIFYING CONCRETE DECK. MAINTAIN ALL REINFORCING STEEL.

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PROJECT:

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REHABILITATION
PWC 2021-56

DRAWING:

DECK REMOVALS

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 13
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF



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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

DECK REMOVALS - DETAILS

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 14
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

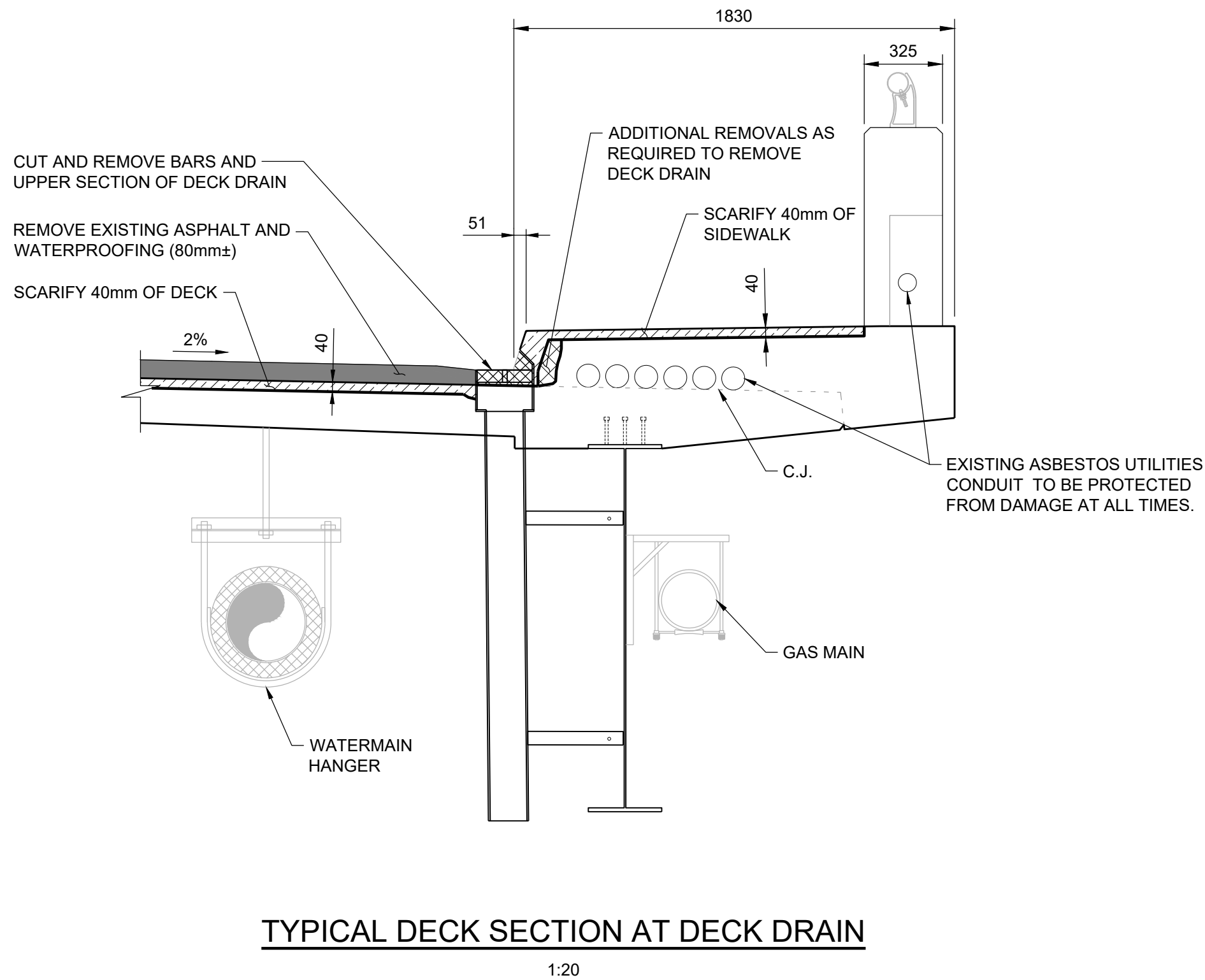
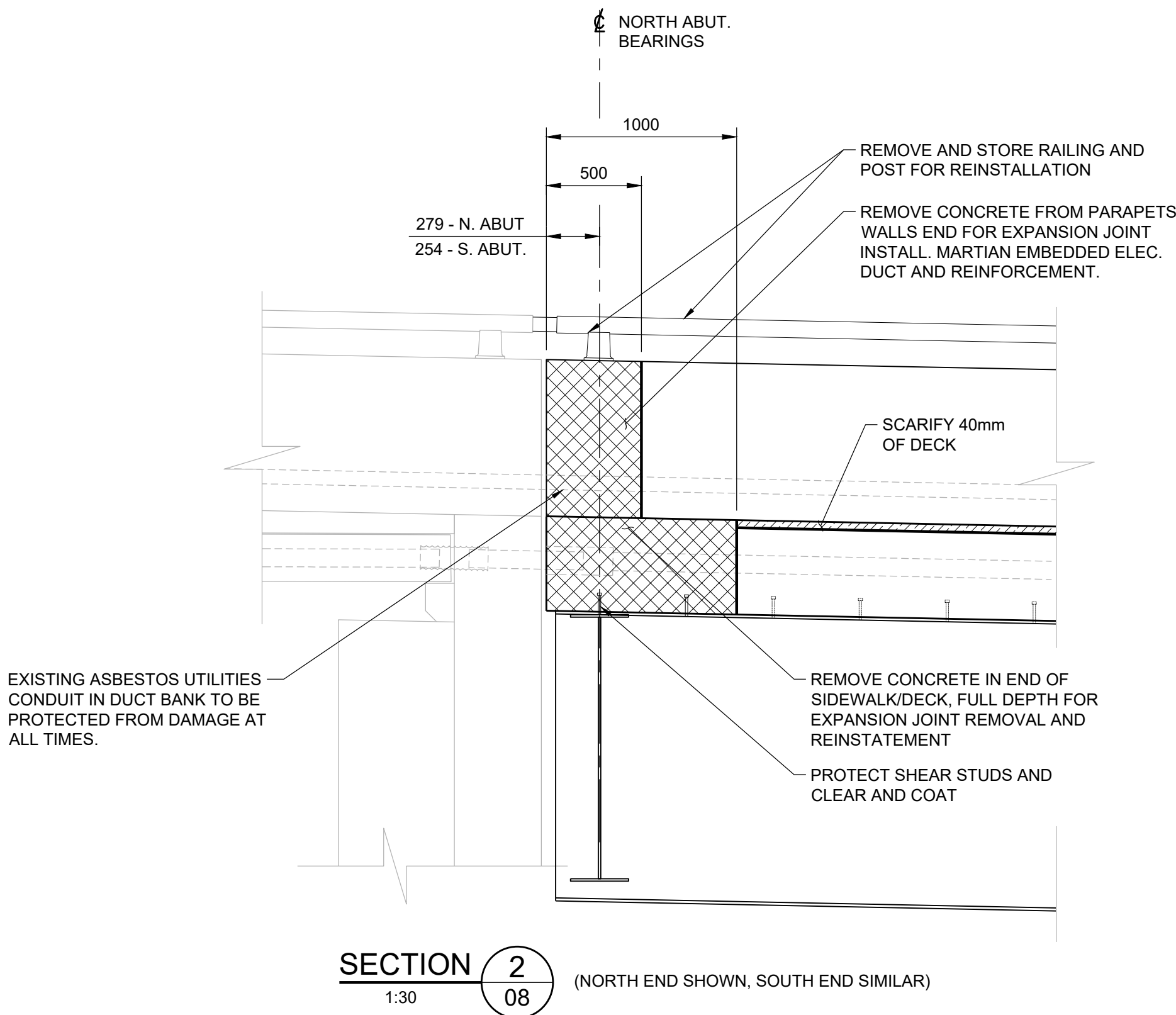
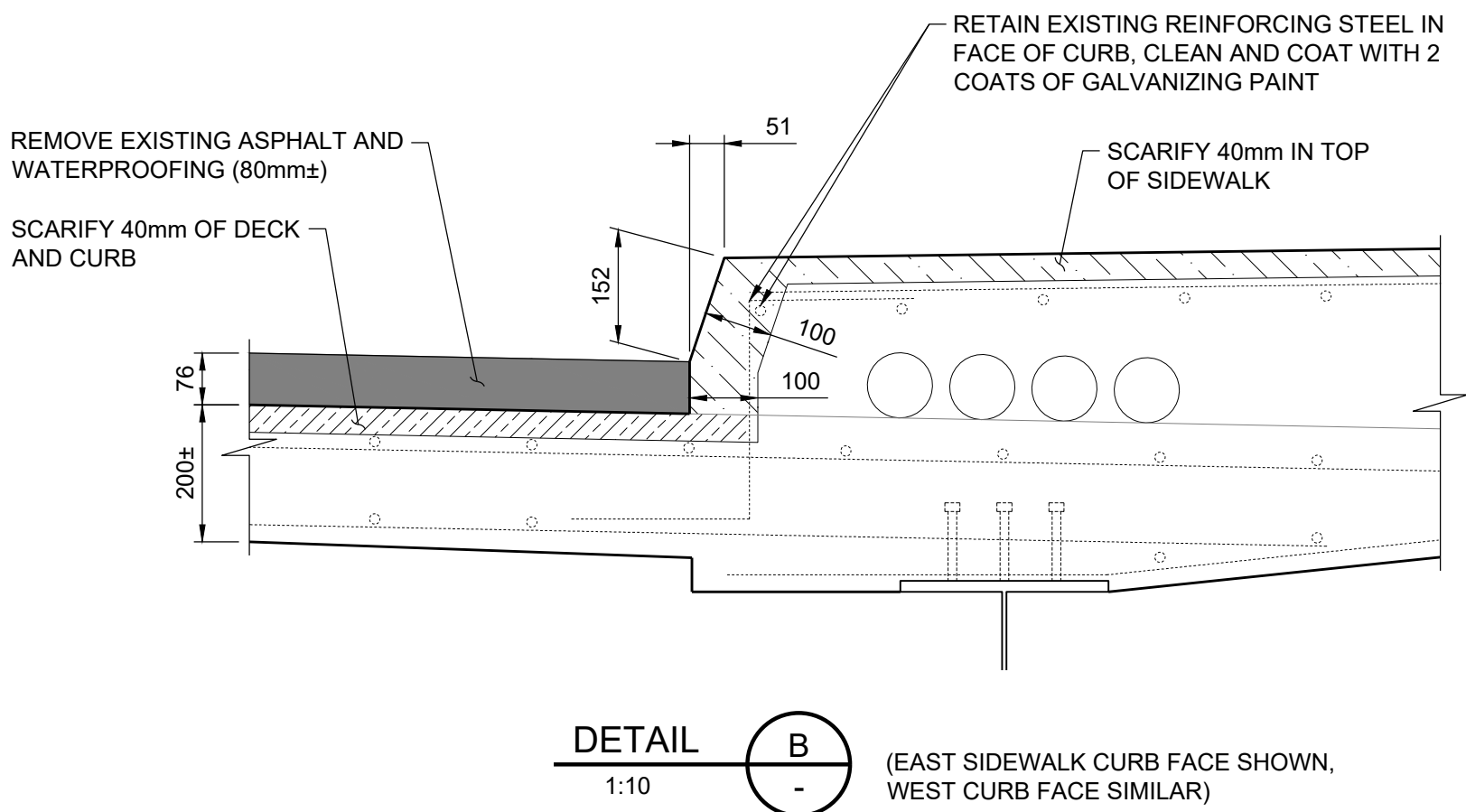
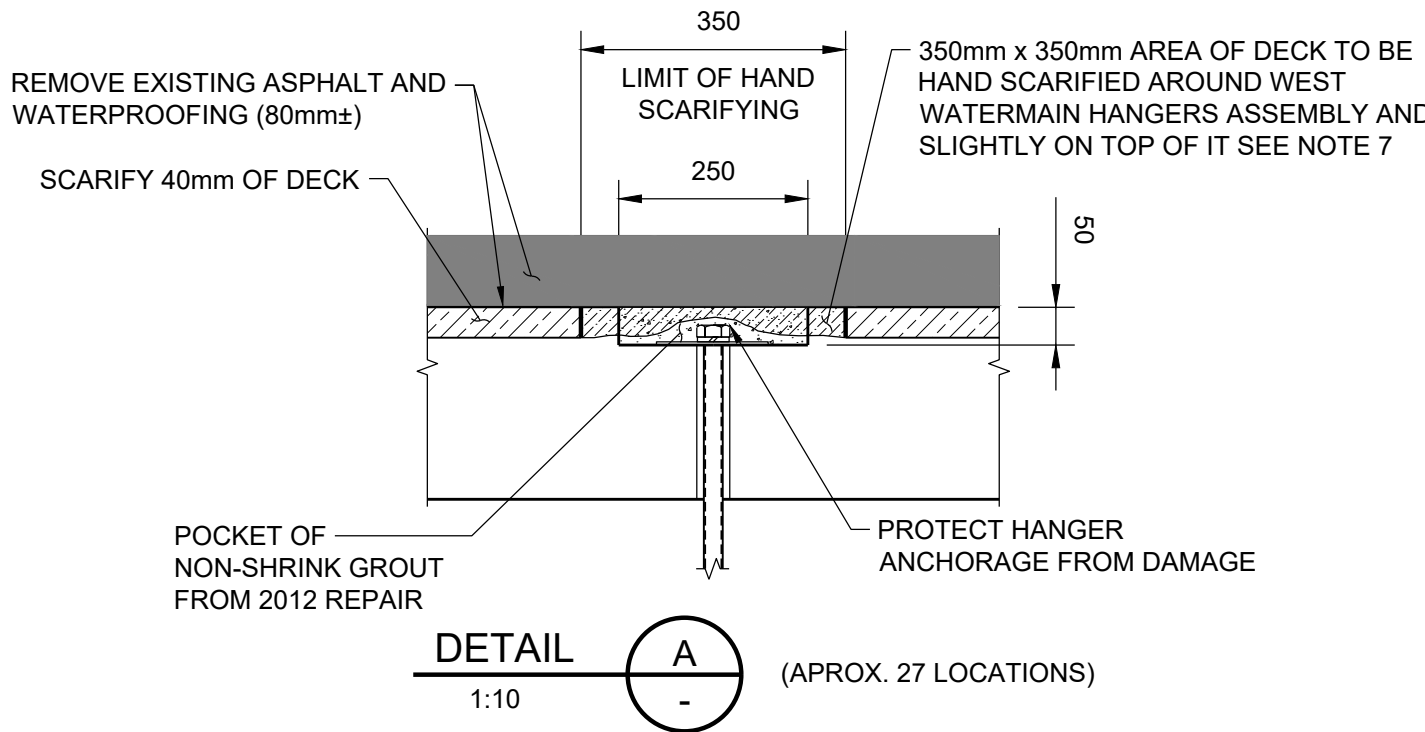
OF

NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02 ELEVATION FOR TOP OF EXISTING DECK SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.
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- FOR DETAILS OF PARTIAL DEPTH REMOVAL SEE DWG. 22.
- THE EXTENTS OF ALL CONCRETE REMOVALS TO BE DELINEATED WITH 25mm DEEP SAWCUT.
- ALL WORK TO BE CARRIED OUT IN STAGES.
- 6 DUCTS WITH 6 BELL CABLES IN SOUTH SIDEWALK AND 6 DUCTS WITH 3 HYDRO AND 3 BELL IN NORTH SIDEWALK TO BE POSITIVELY LOCATED, AND PROTECTED FROM DAMAGE AT ALL TIMES.
- CARRY OUT TRIAL HAND SCARIFICATION AROUND THE HANGERS IN PRESENCE OF CONTRACT ADMINISTRATOR AS A MOCK UP.

LEGEND:

- FULL DEPTH CONCRETE REMOVAL IN DECK.
- PARTIAL DEPTH CONCRETE REMOVALS.
- SCARIFYING CONCRETE CURB AND SIDEWALK. MAINTAIN ALL REINFORCING STEEL
- SCARIFYING CONCRETE DECK. MAINTAIN ALL REINFORCING STEEL





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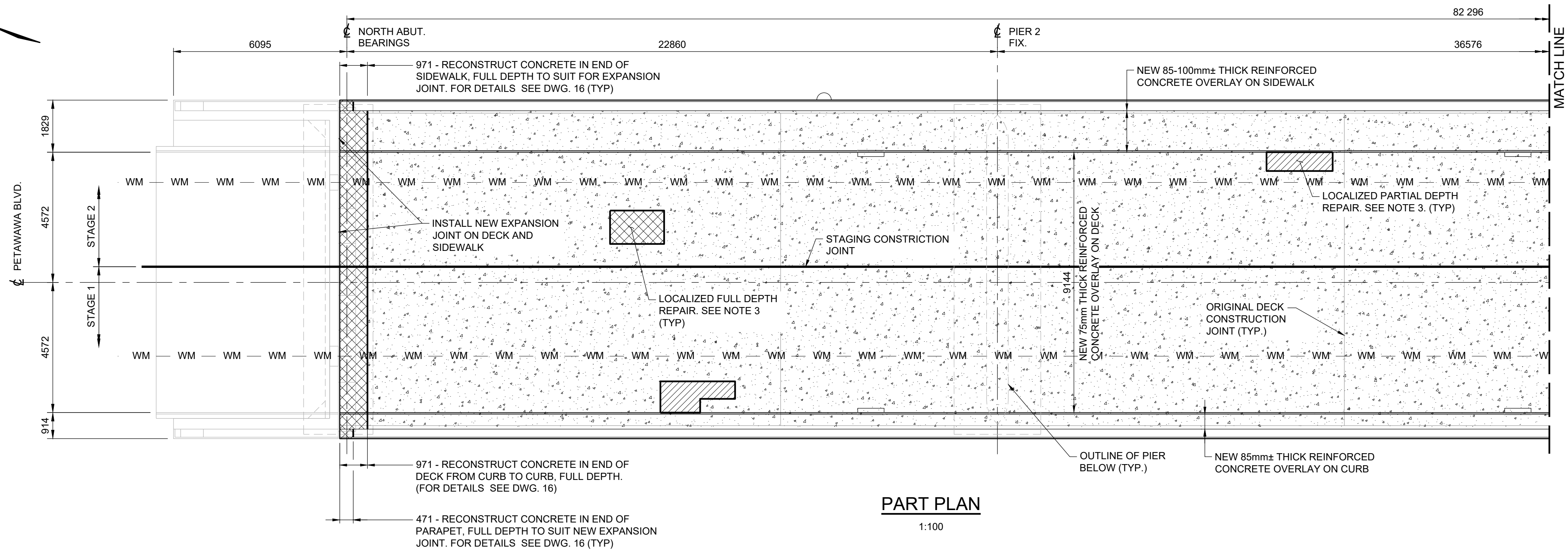
PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

DECK RECONSTRUCTION

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 15
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF



PART PLAN

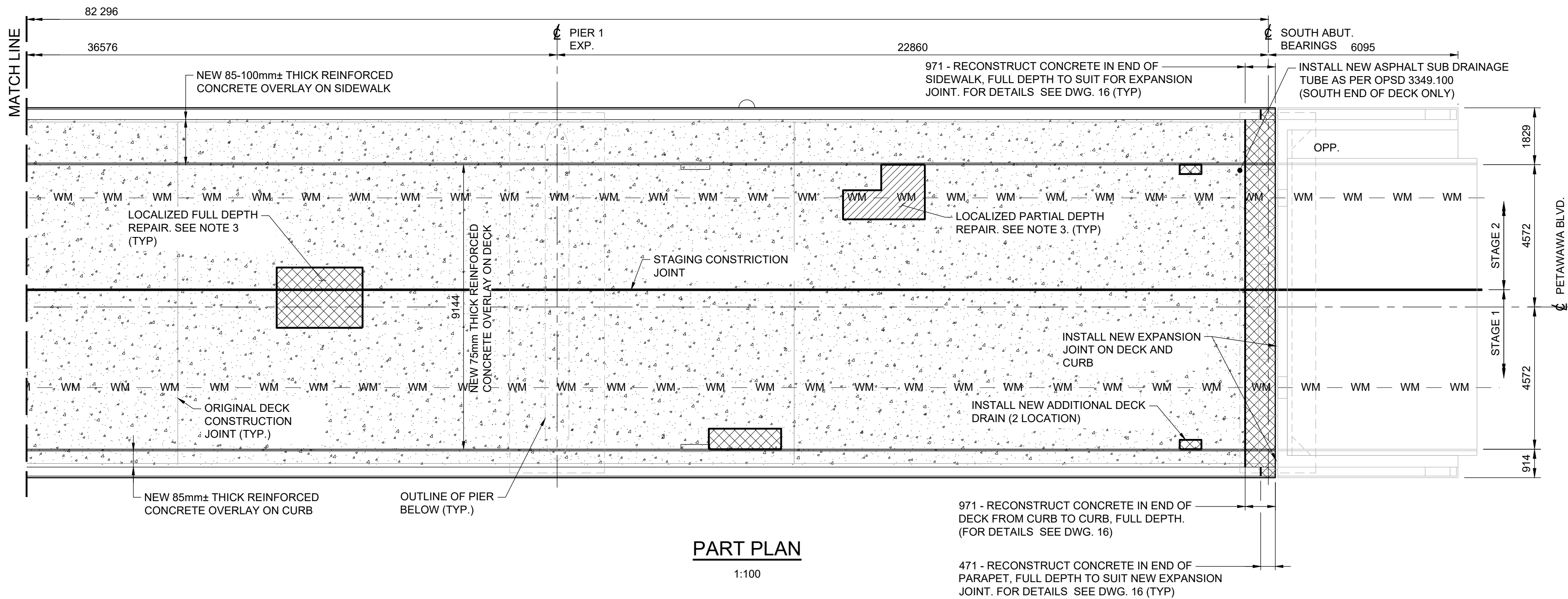
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NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.ELEVATION FOR TOP OF EXISTING DECK SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.
2. LOCATIONS AND SIZE OF PARTIAL AND FULL DEPTH REPAIRS ON DECK ARE SCHEMATICALLY SHOWN FOR BIDDING PROPOSE ONLY. ACTUAL AREAS TO BE DELINEATED ON SITE BY CONTRACT ADMINISTRATOR.
3. FOR DETAILS OF PARTIAL DEPTH REPAIRS SEE DWG. 22.
4. ALL WORK TO BE CARRIED OUT IN STAGES.
5. 6 DUCTS WITH 6 BELL CABLES IN EAST SIDEWALK AND 2 DUCTS WITH 2 BELL IN WEST CURB TO BE POSITIVELY LOCATED, AND PROTECTED FROM DAMAGE AT ALL TIMES.

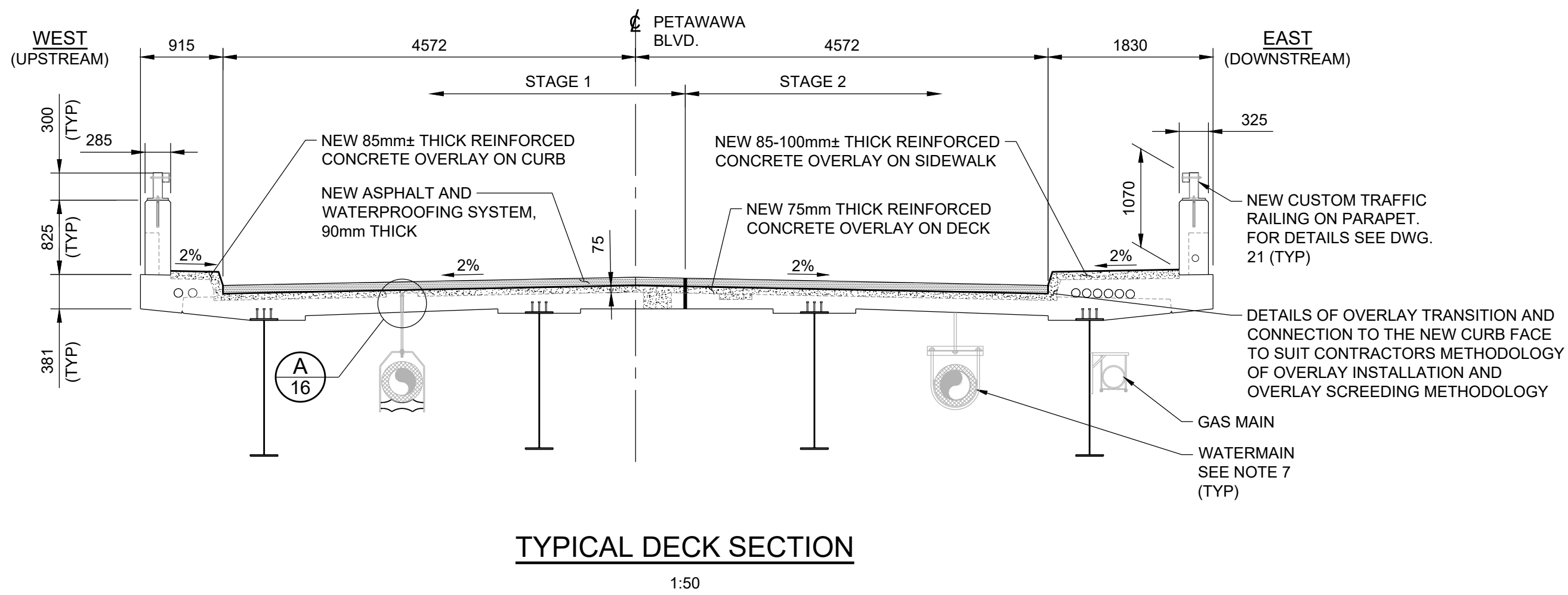
LEGEND:

- FULL DEPTH CONCRETE REPAIR IN DECK.
- PARTIAL DEPTH CONCRETE REPAIR.
- CONCRETE OVERLAY ON DECK, CURB AND SIDEWALK.



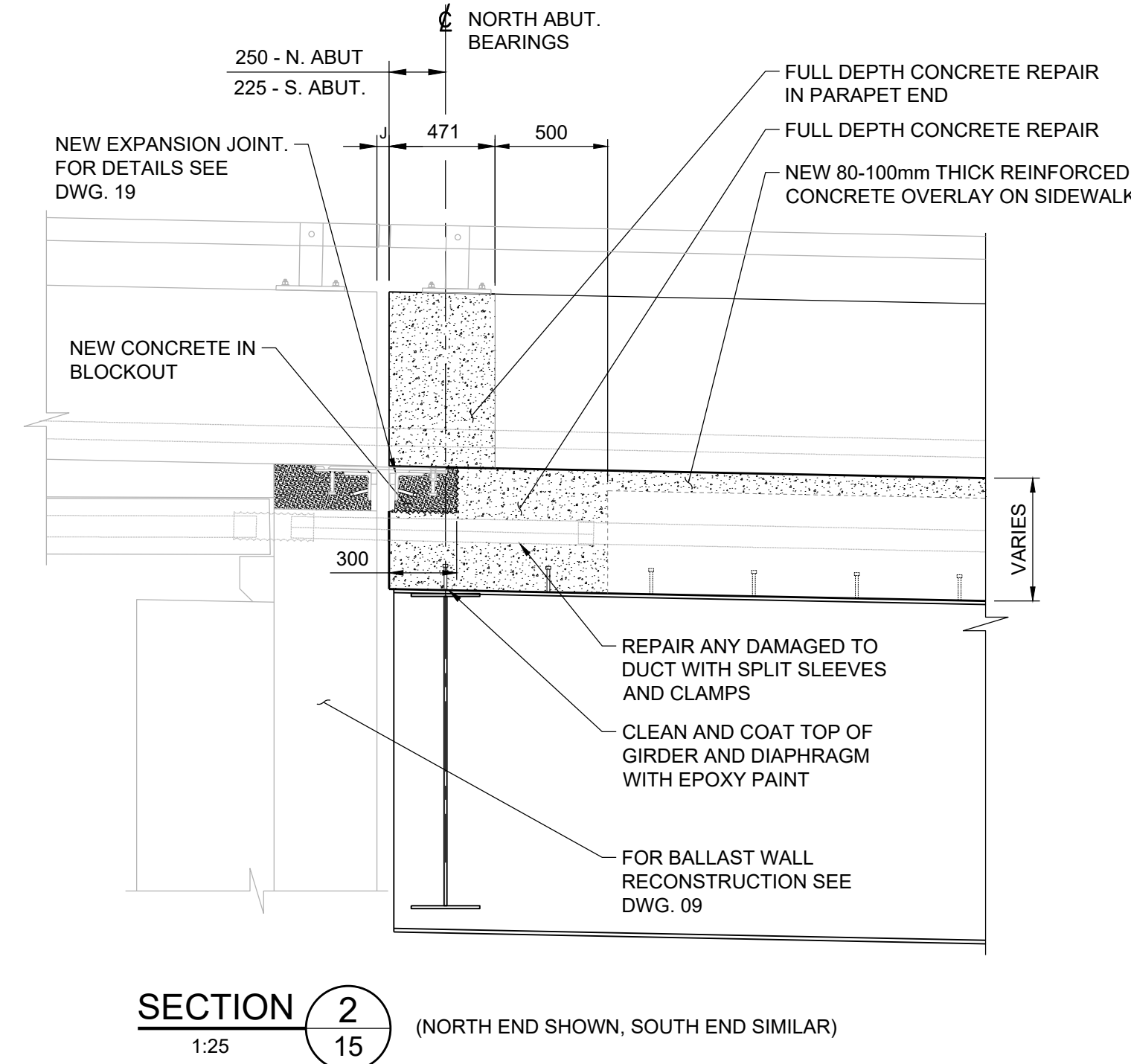
PART PLAN

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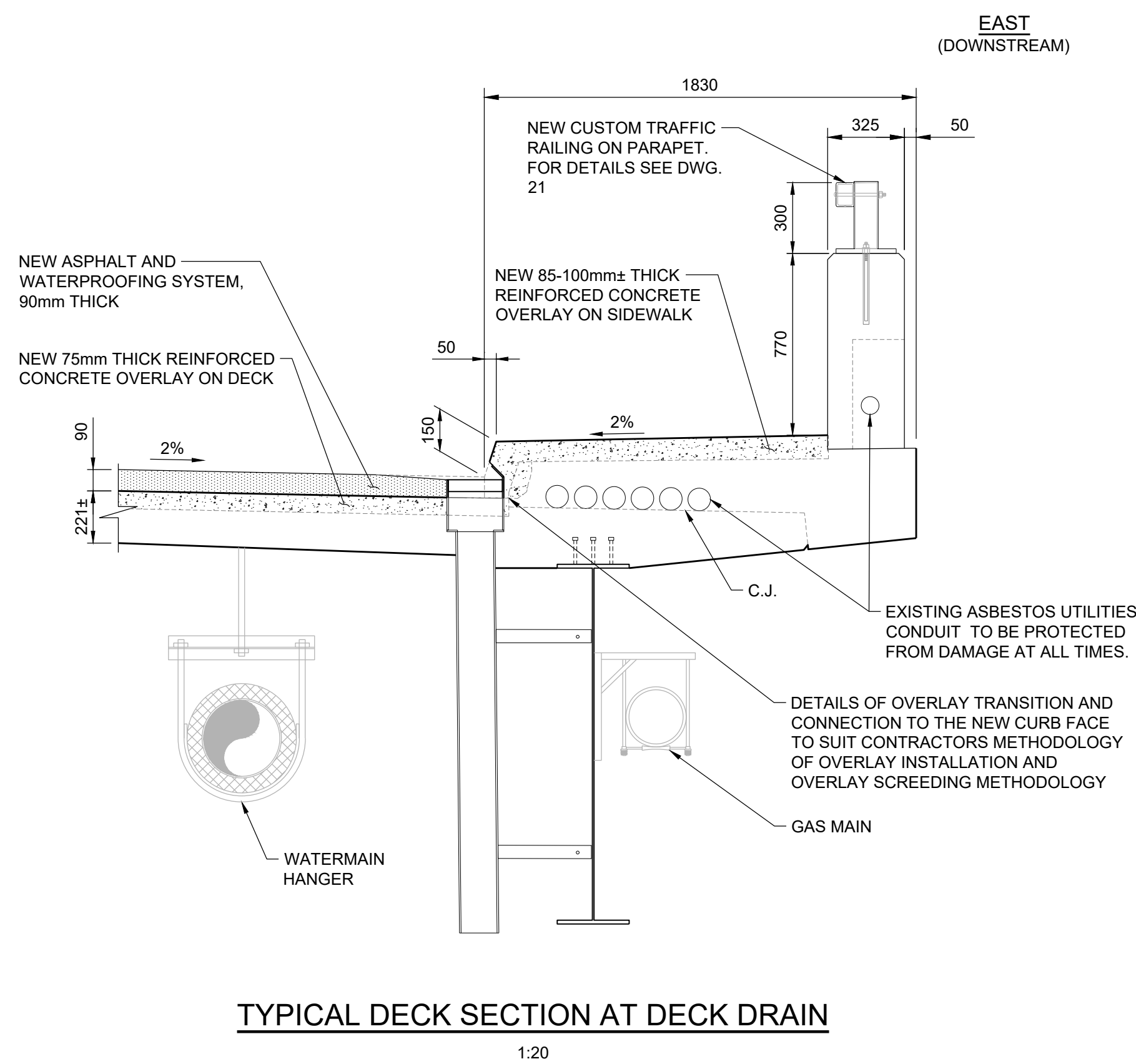


TYPICAL DECK SECTION

1:50

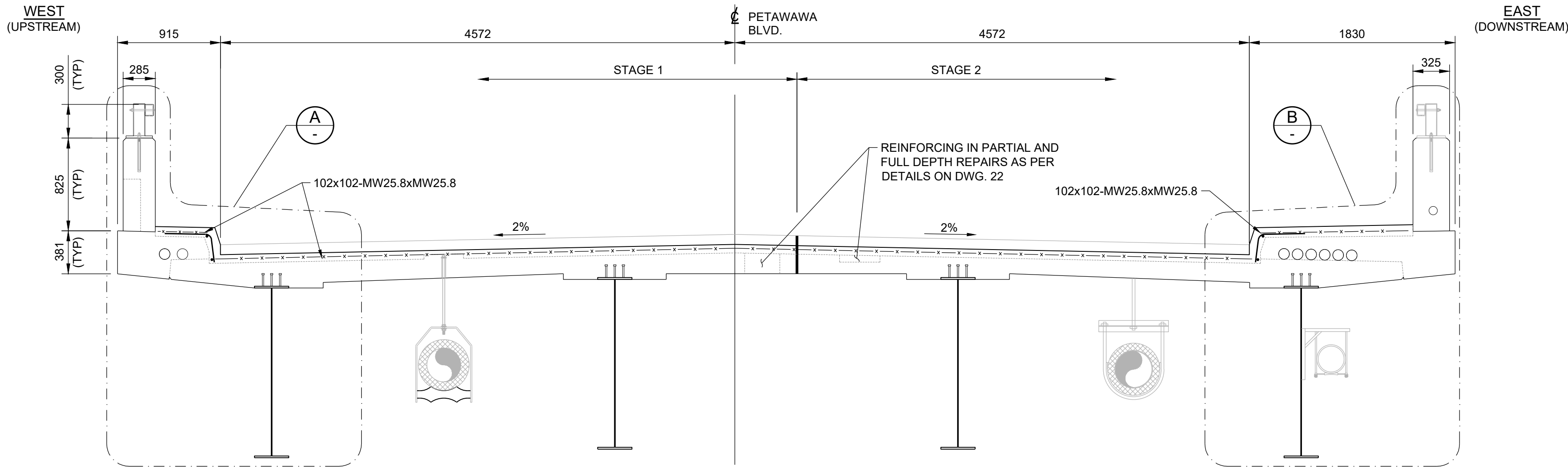


-
- Diagram illustrating the detail for a watermain hanger. The diagram shows a cross-section of a pipe with a hanger. A label points to the hanger area: "PLACE OVERLAY OVER WATERMAIN HANGER BLOCKOUT".
- DETAIL**
- A**
- 15**
- (APPROX. 27 LOCATIONS)



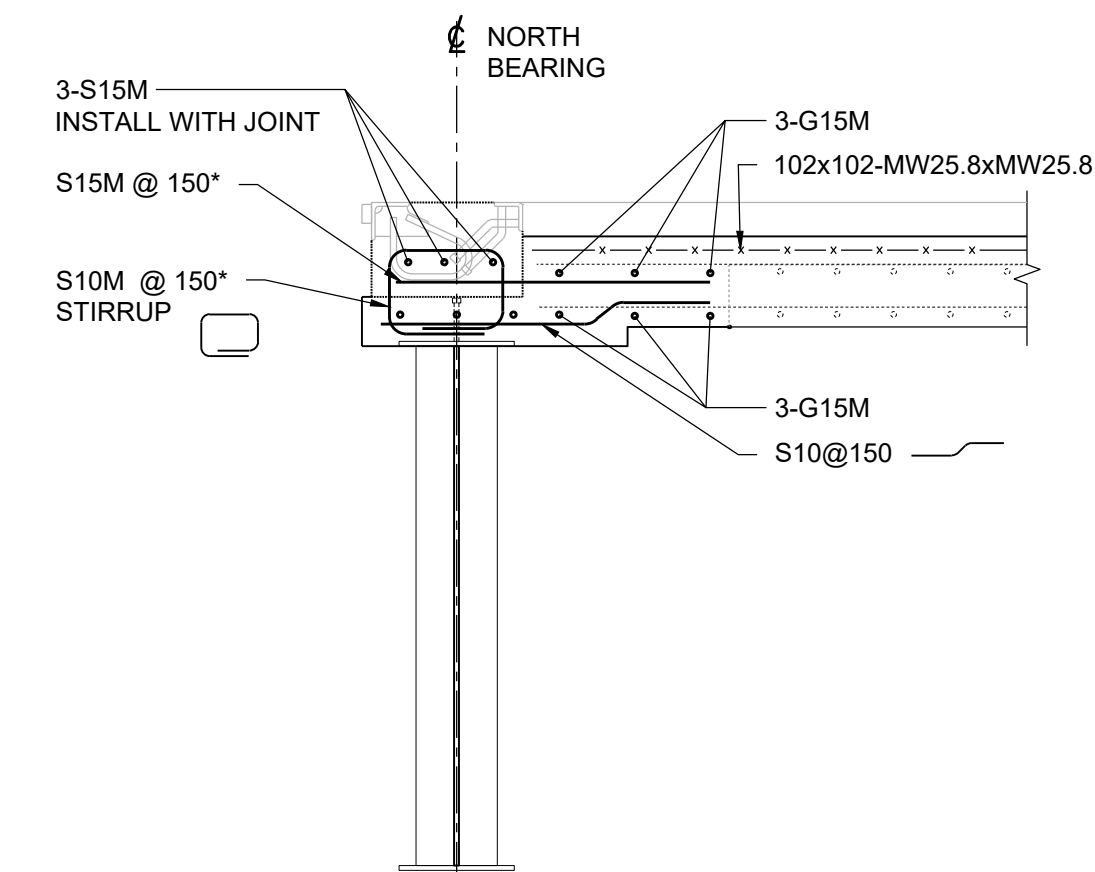
(A1 841mm x 594mm)

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Rehab\SHEETS\211-13633-00_BRG-10_DECK_REBAR.dwg
PLOTDATE: Mar 04, 2022 - 9:25am
DRAWN: ERI Measurement Admin

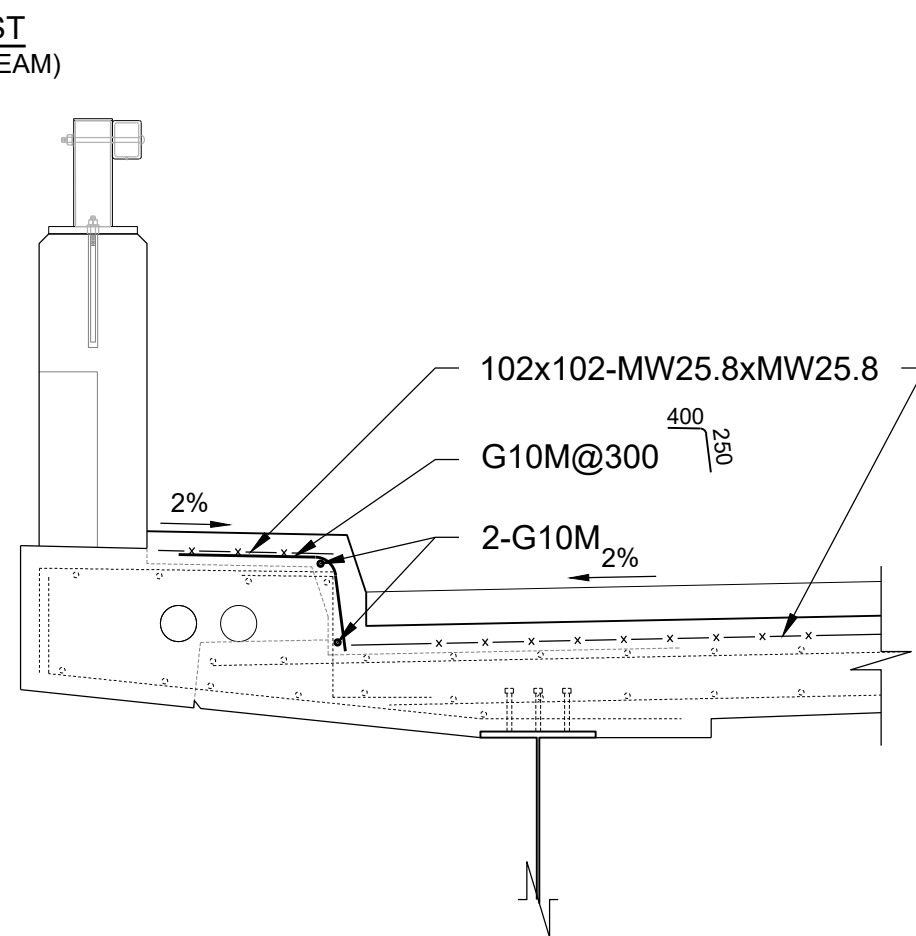


TYPICAL DECK SECTION - REINFORCING

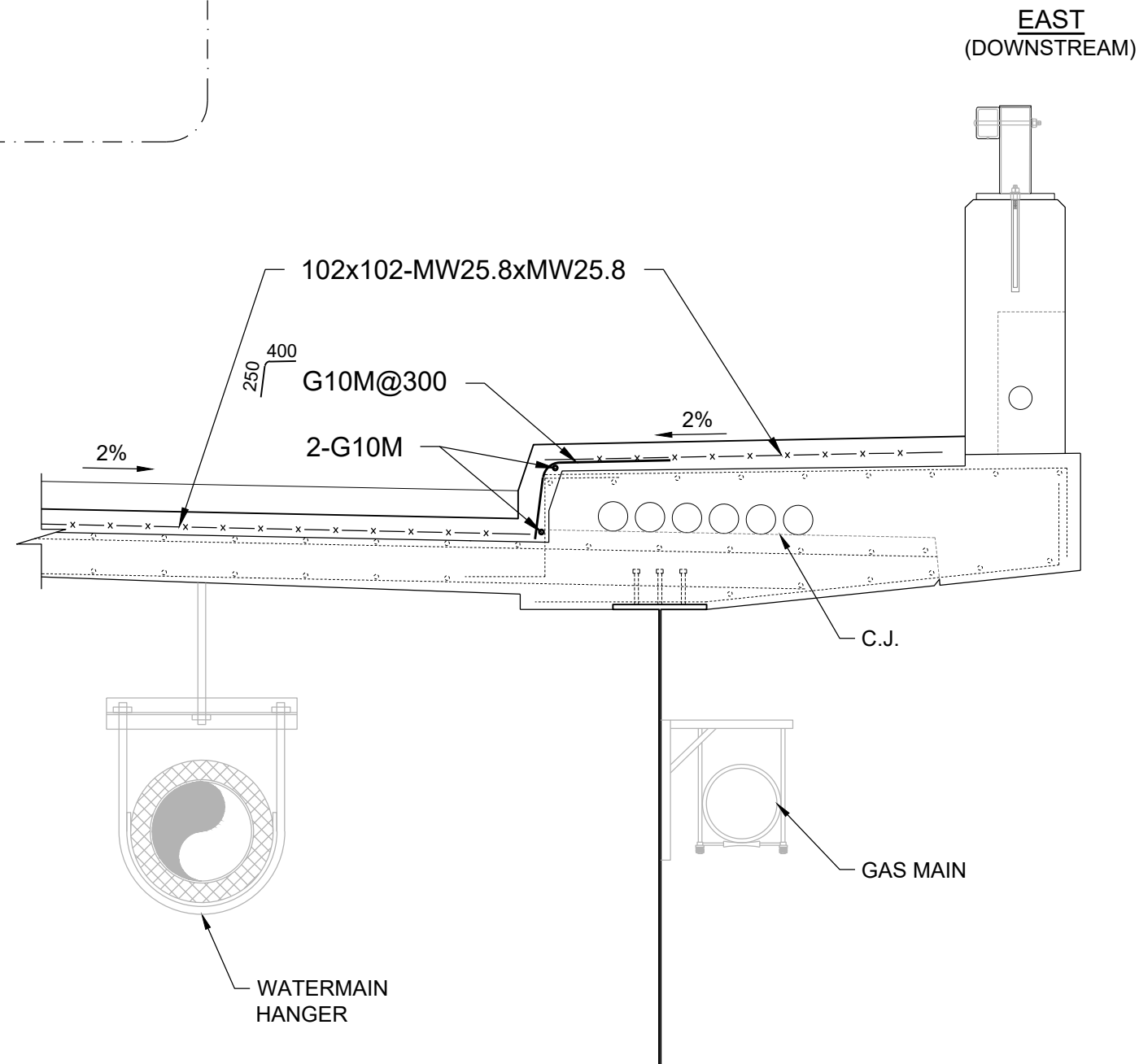
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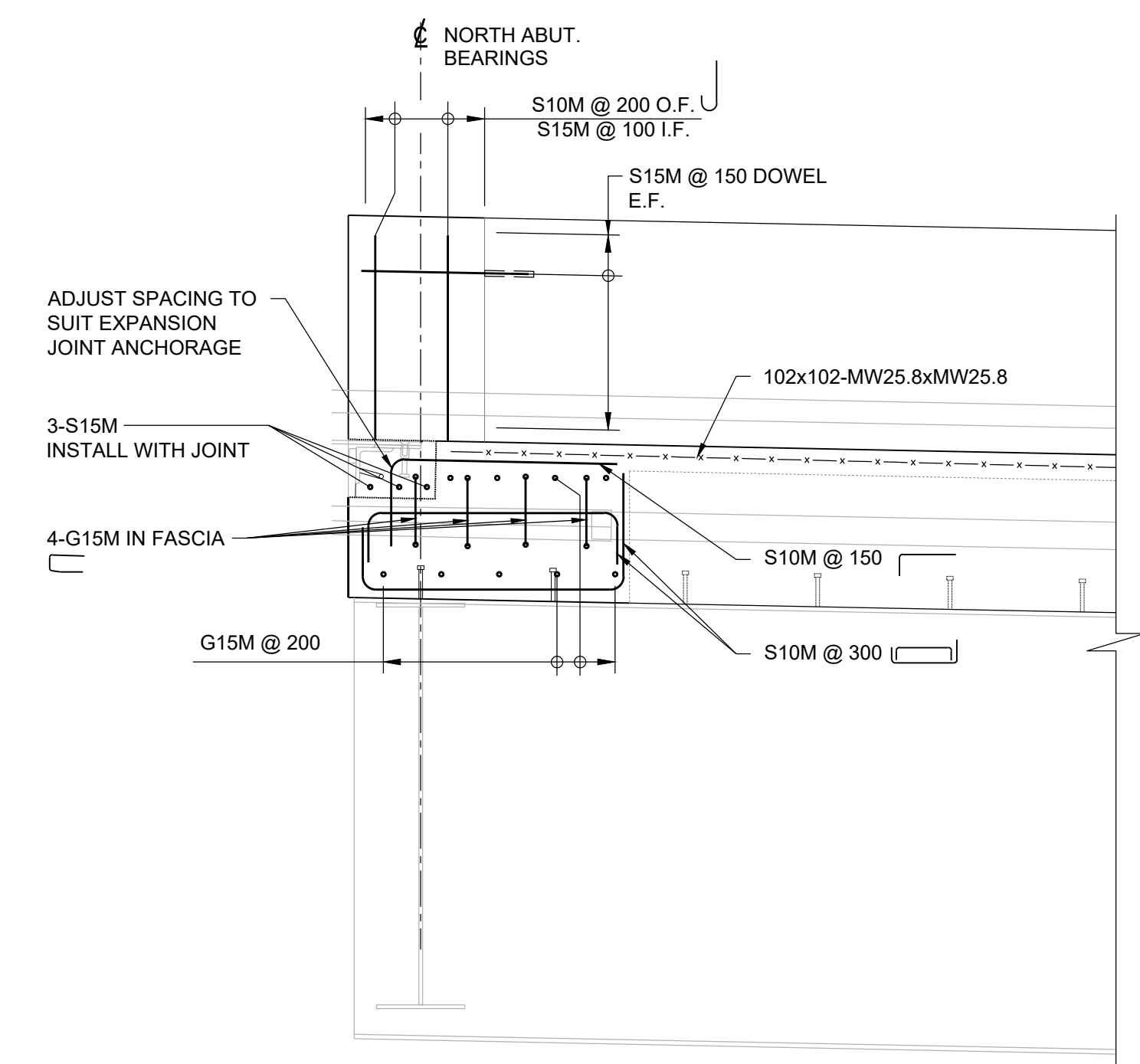
SECTION 1
1:20 (NORTH END SHOWN, SOUTH END SIMILAR)



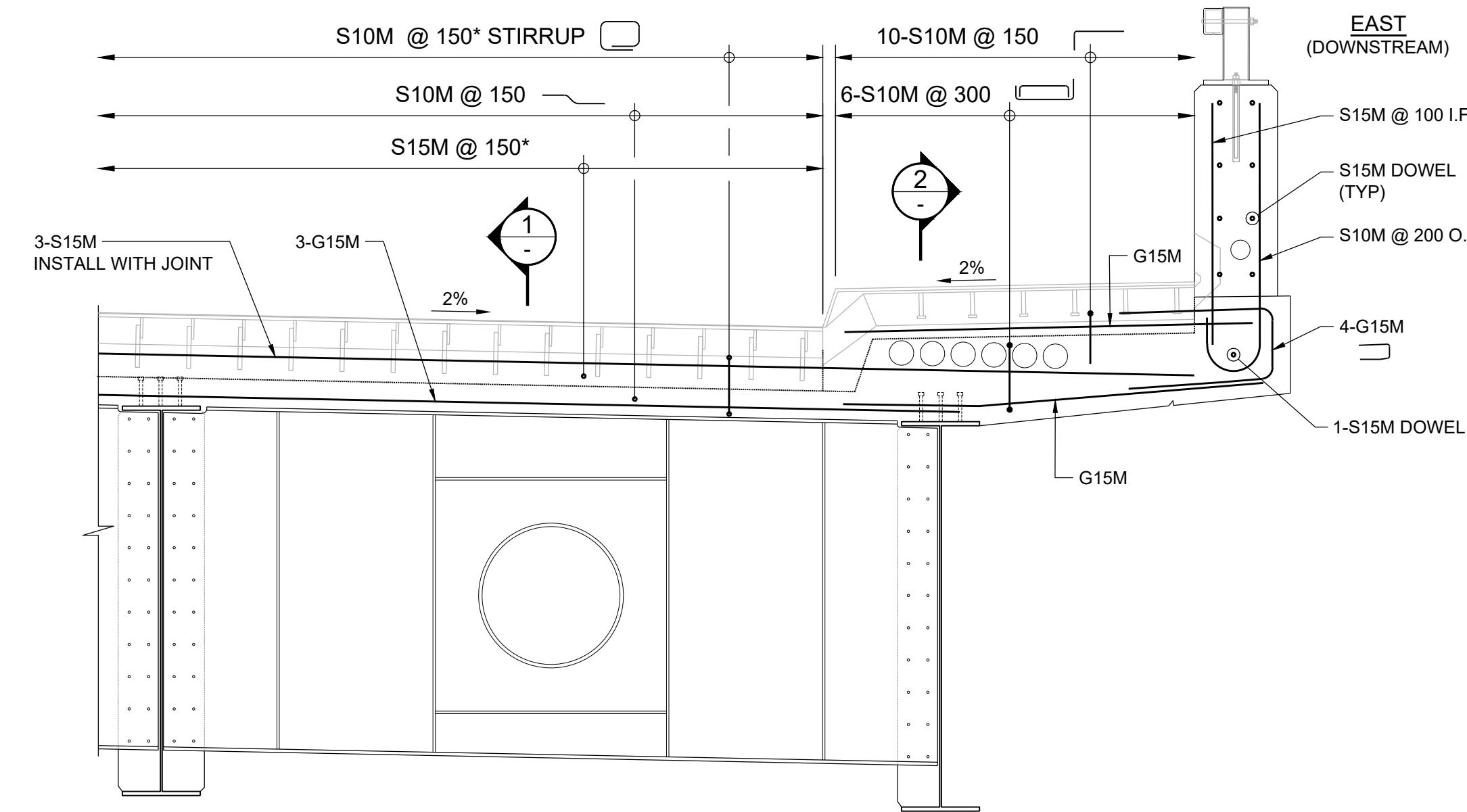
DETAIL A
1:20



DETAIL B
1:20



SECTION 2
1:20 (NEW RAILING NOT SHOWN FOR CLARITY, NORTHEAST SHOWN, REMAINING SIMILAR)



EXPANSION JOINT AT SIDEWALK - REINFORCING

1:20

(NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR)

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02 ELEVATION FOR TOP OF EXISTING DECK SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.
2. ALL WORK TO BE CARRIED OUT IN STAGES.
3. MECHANICAL CONNECTORS AND 600mm LONG SPLICING BARS TO MATCH REINFORCING TO BE PROVIDED FOR HORIZONTAL REINFORCING CROSSING THE CONSTRUCTION STAGING JOINT IN DECK END.
4. TRANSVERSE REINFORCING STEEL IN EXPANSION JOINT BLOCK OUT TO BE INSTALLED ALONG WITH JOINT AND IN SECTIONS TO SUIT JOINT INSTALLATION.
5. CONTRACT ADMINISTRATOR WILL CONSIDER ALTERNATIVE ARRANGEMENT OF REINFORCING STEEL IN THE EXPANSION JOINT ASSEMBLIES TO SUIT EXPANSION JOINT INSTALLATION, POTENTIAL CONFLICT WITH ANCHORAGE ASSEMBLIES AND INTRICACIES OF INSTALLATION INCLUDING DOWELING TO NEW CONCRETE. ANY MODIFICATIONS TO REINFORCING STEEL SHALL PROVIDE EQUIVALENT OR BETTER PERFORMANCE AND STRENGTH AND WILL BE SUBJECT TO APPROVAL.



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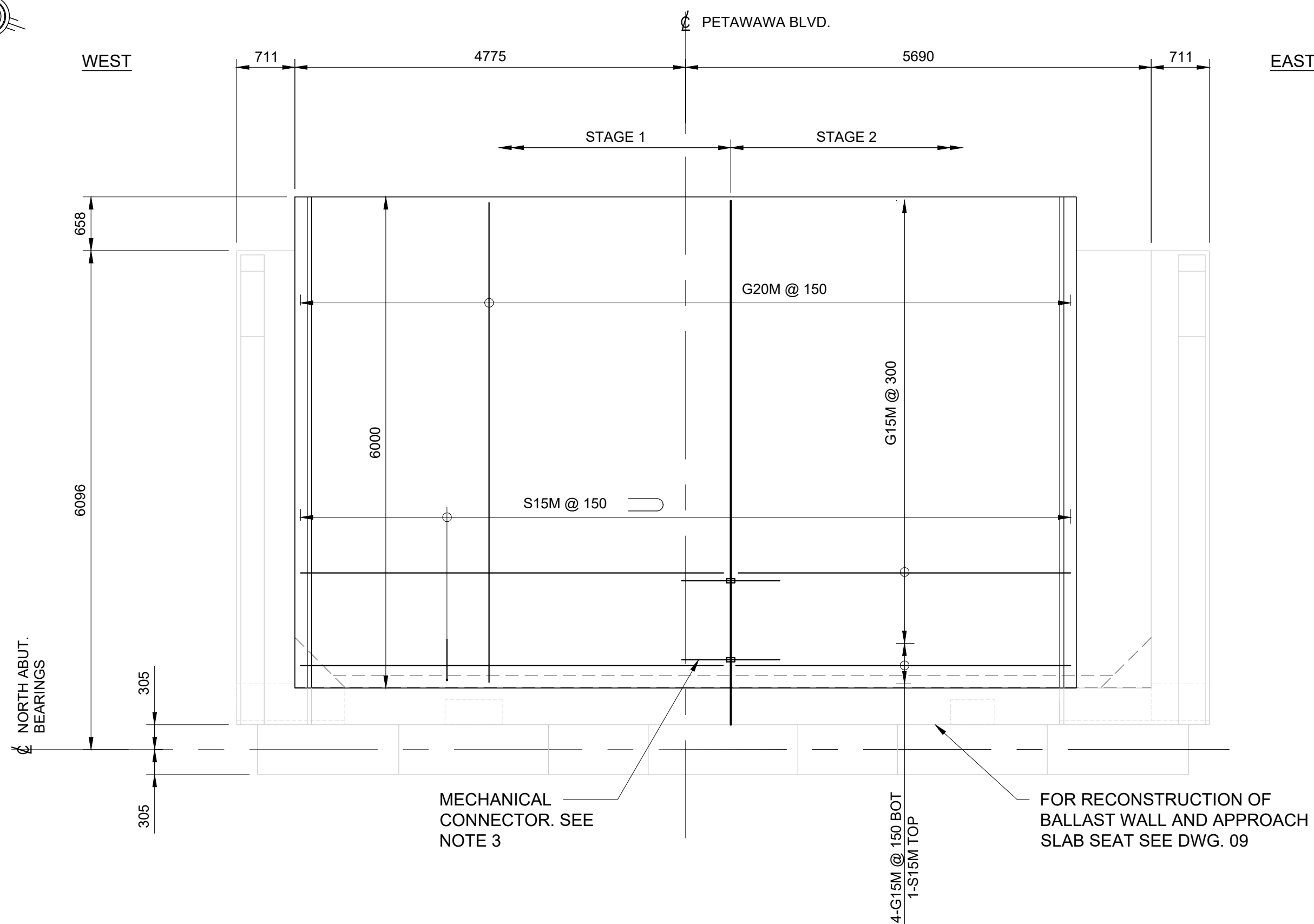
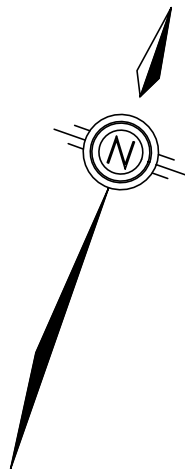
PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

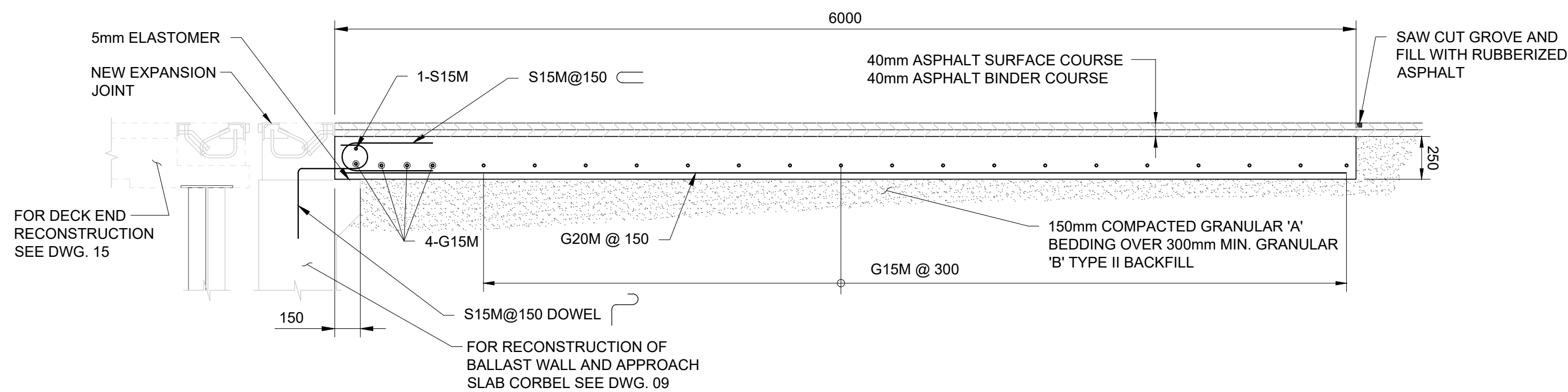
DECK REINFORCING

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 17
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56



PLAN - APPROACH SLAB RECONSTRUCTION

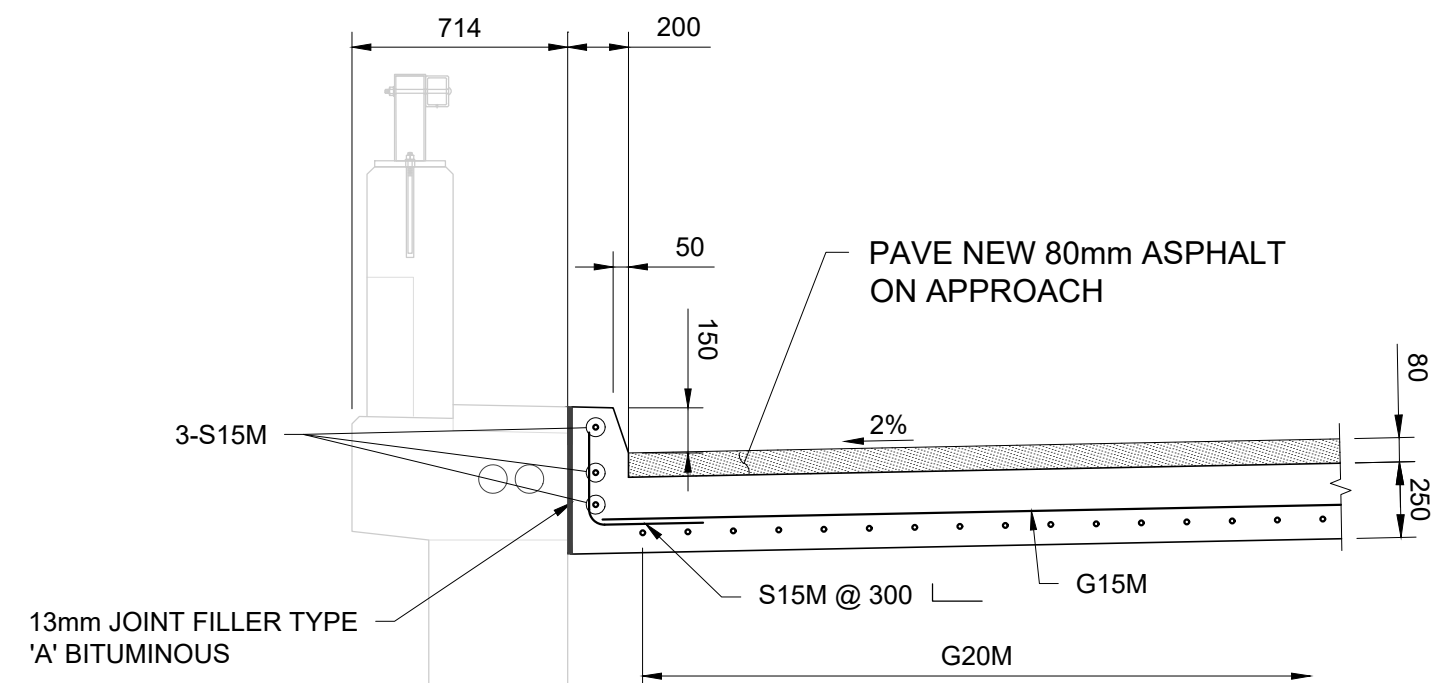
1:50
(NORTH SHOWN, SOUTH SIMILAR)



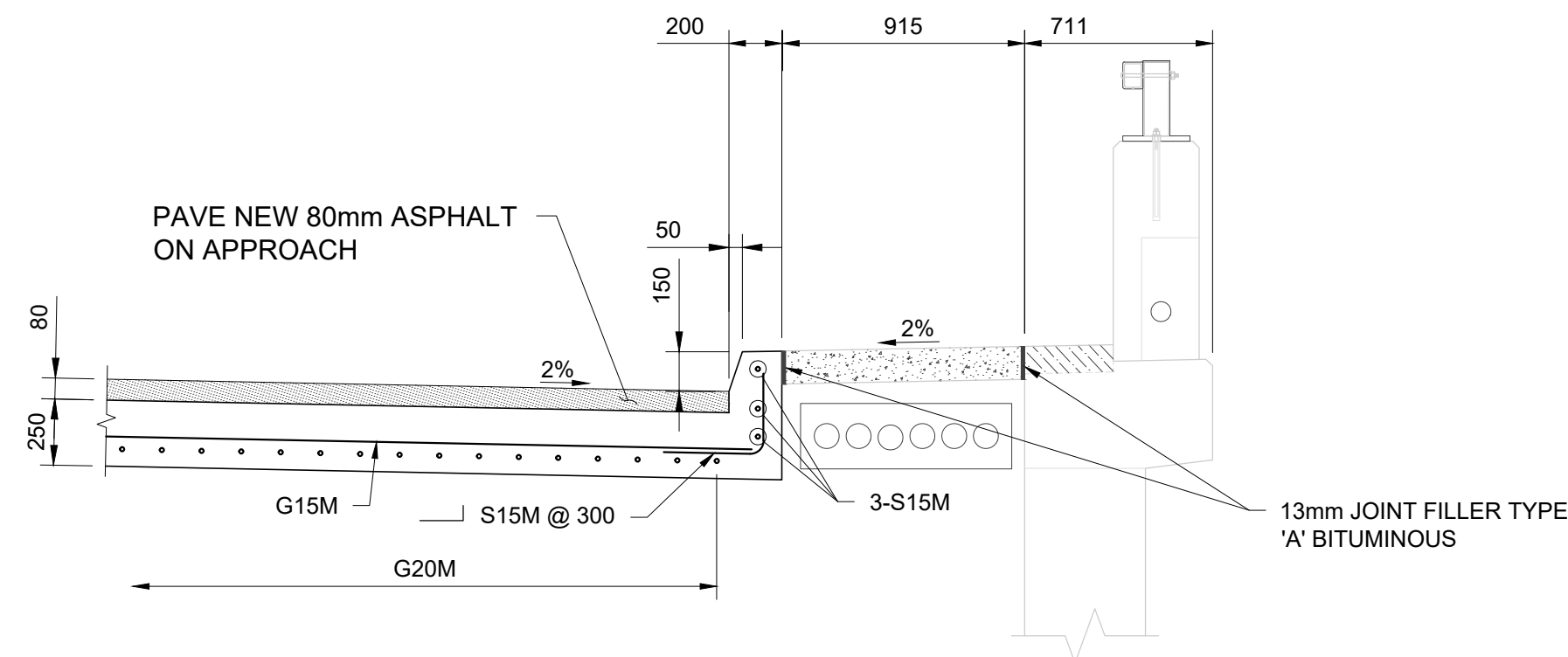
SECTION 1
1:25
(NORTH APPR. SLAB SHOWN,
SOUTH APPR. SLAB SIMILAR)

NOTE:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
2. ALL WORK TO BE CARRIED OUT IN STAGES.
3. MECHANICAL CONNECTORS AND 600mm LONG SPLICING BARS TO MATCH REINFORCING TO BE PROVIDED FOR HORIZONTAL REINFORCING CROSSING THE CONSTRUCTION STAGING JOINT IN APPROACH SLAB.



SECTION 2
1:25



SECTION 3
1:25



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613-732-4353



PROJECT:

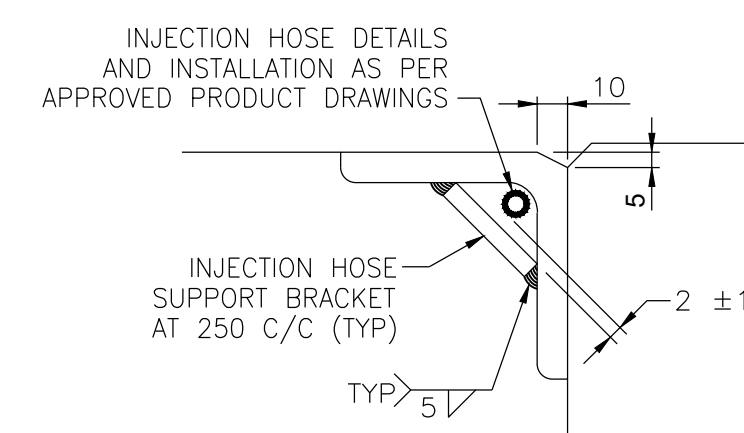
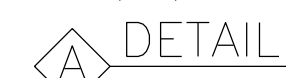
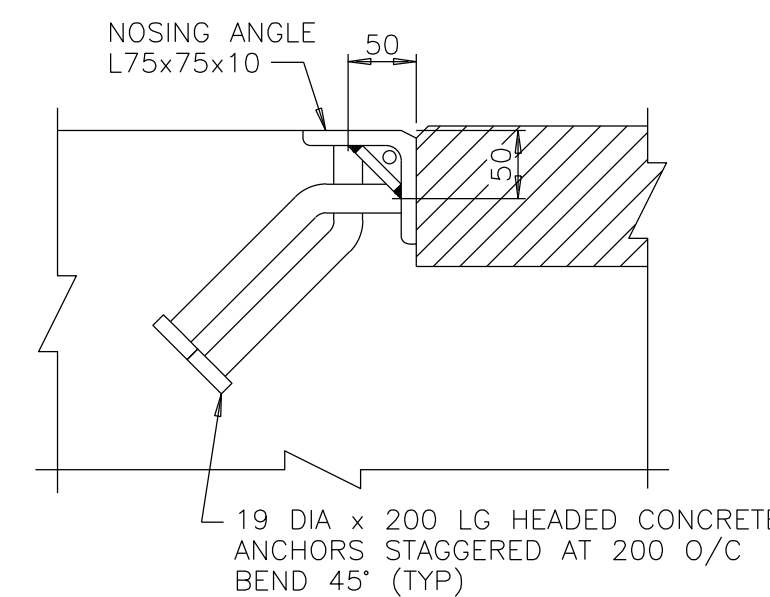
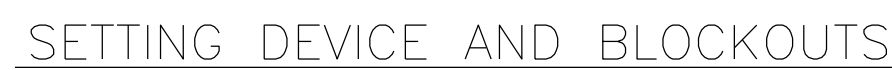
PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

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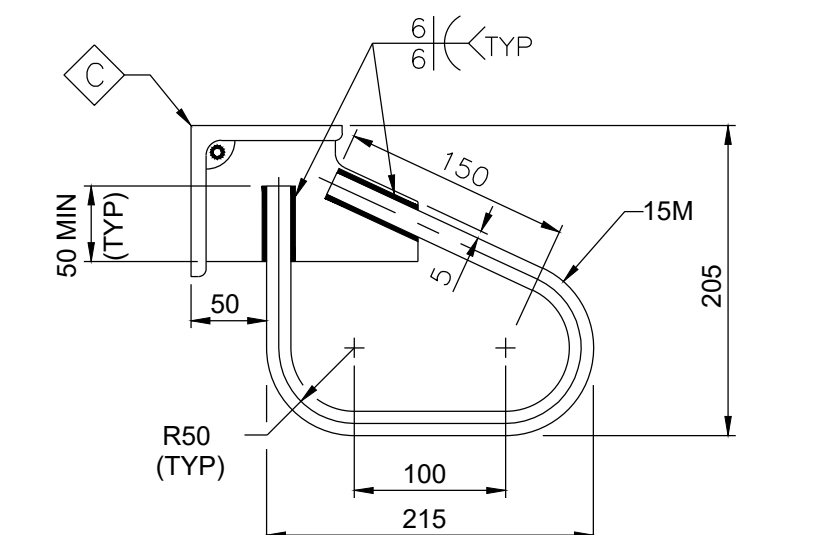
APPROACH SLAB RECONSTRUCTION

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 18
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

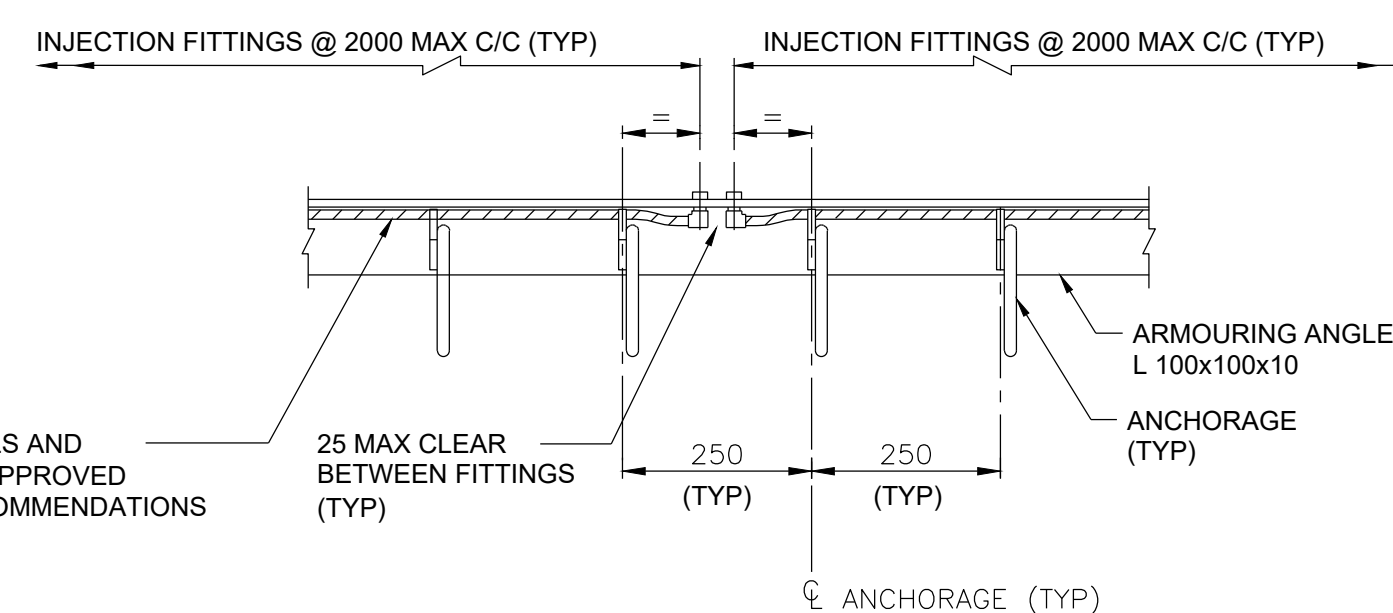
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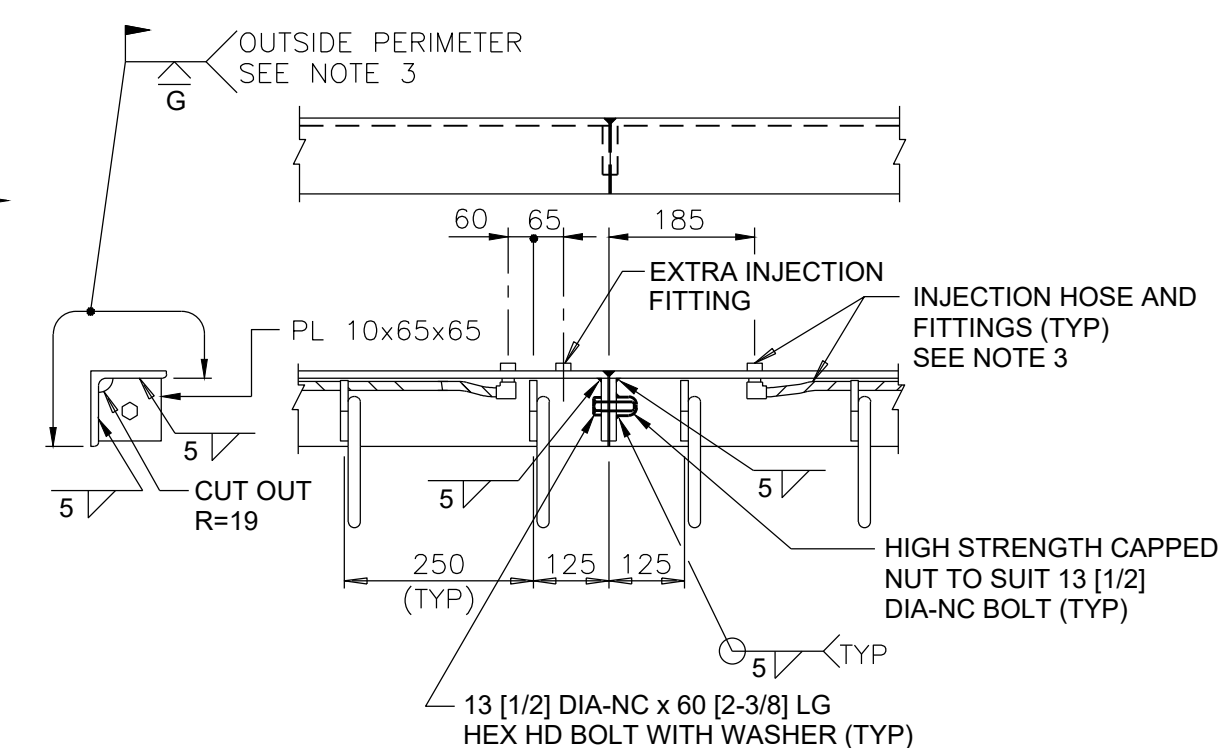
INJECTION HOSE SUPPORT BRACKET DETAIL



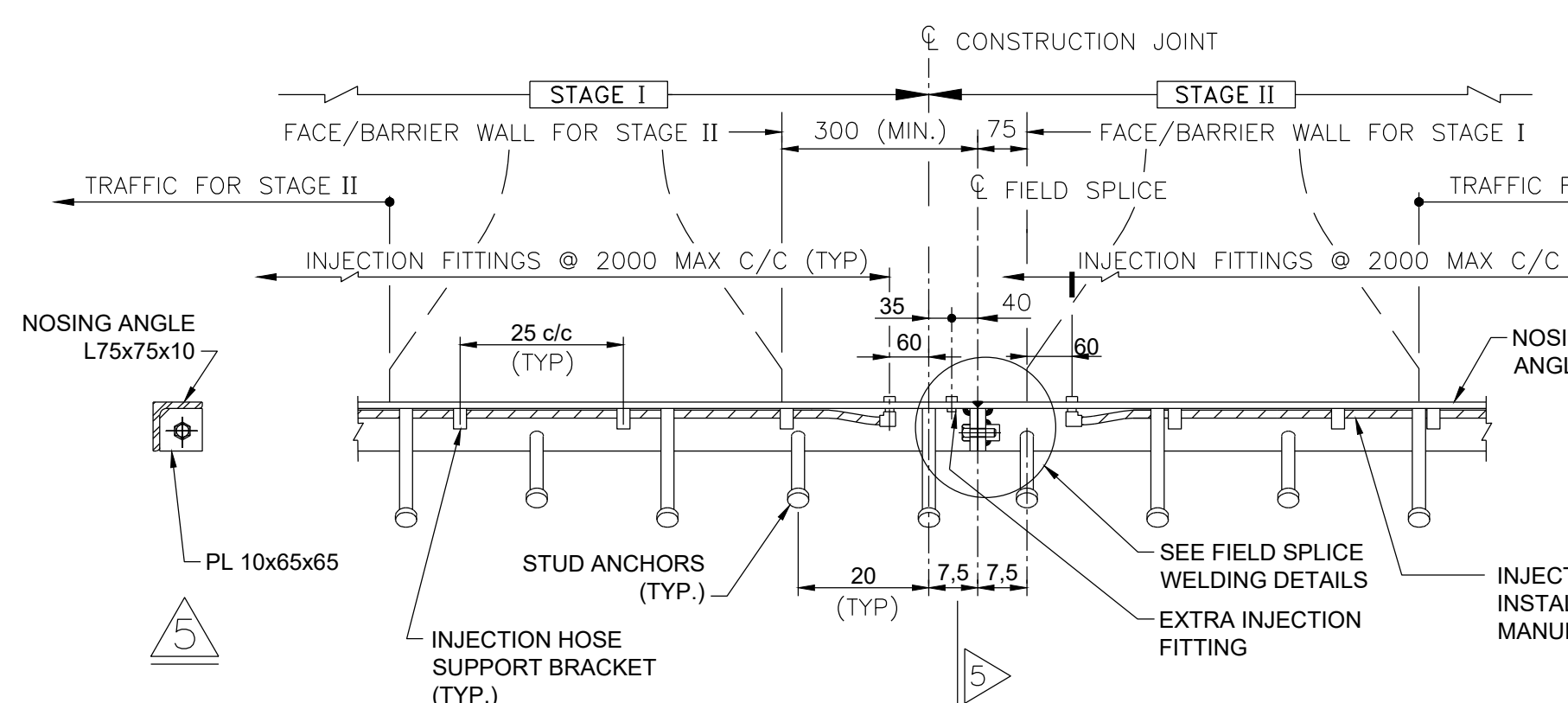
ANCHORAGE DETAIL



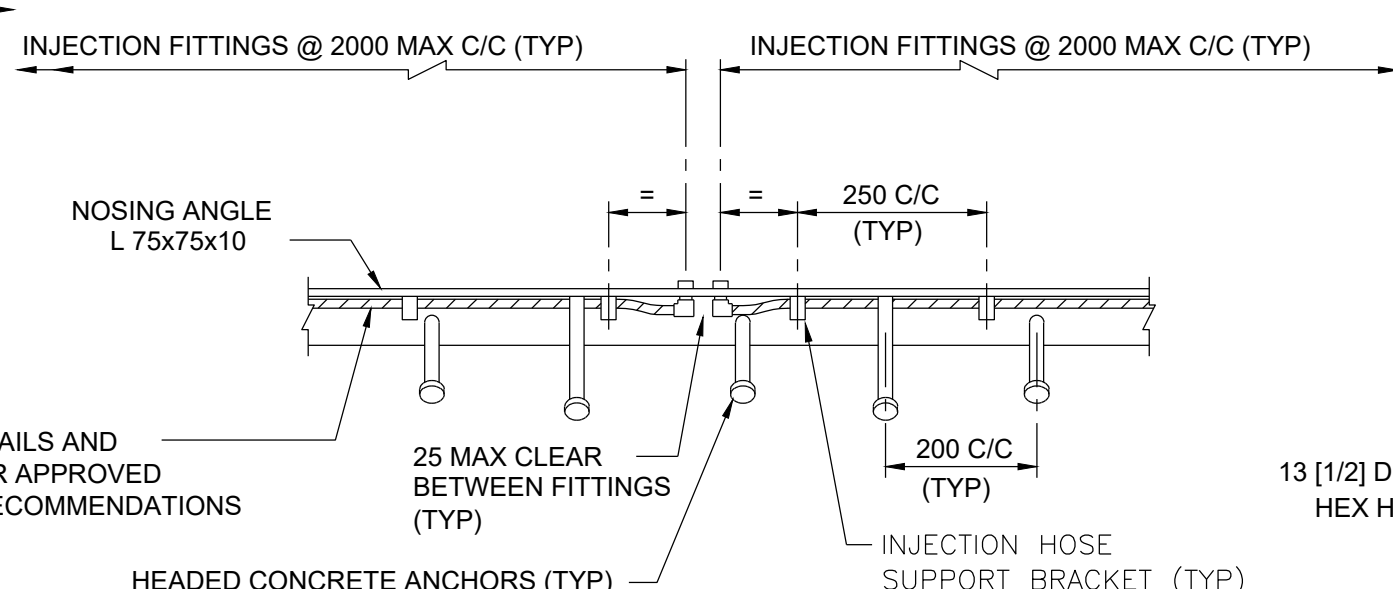
DETAILS OF ANCHORAGE AND INJECTION HOSE FOR ARMOURING ANGLE



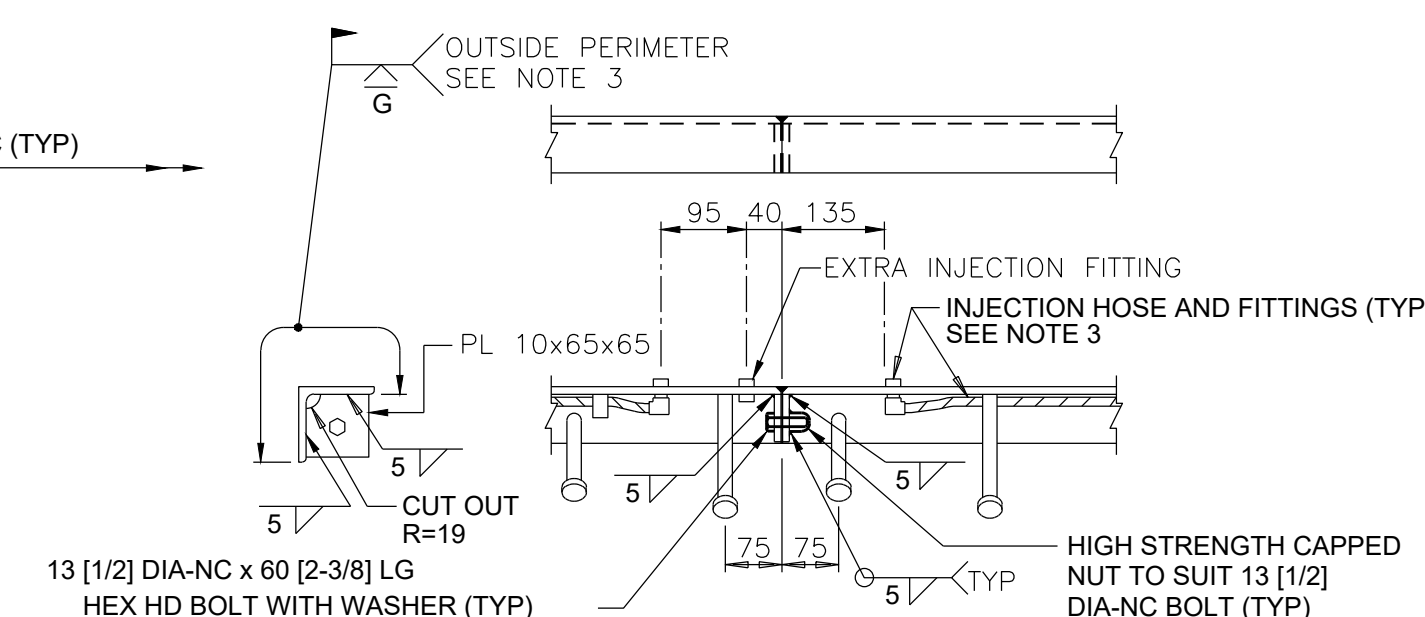
ARMOURING ANGLE
FIELD SPLICE DETAIL



FIELD SPLICE DETAILS AT STAGED CONSTRUCTION
FOR NOSING ANGLE



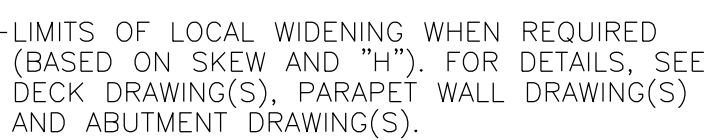
DETAILS OF HEADED CONCRETE ANCHORS AND INJECTION HOSE FOR NOSING ANGLE



NOSING ANGLE
FIELD SPLICE DETAIL

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 19
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56



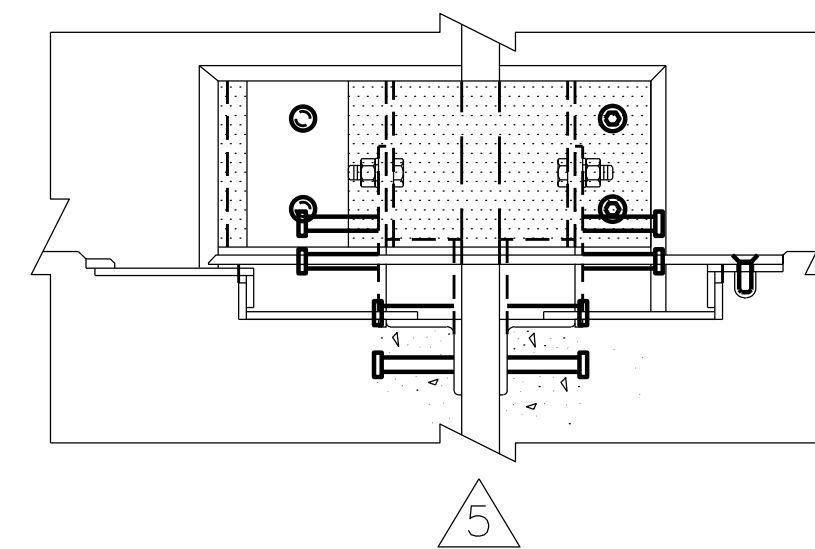
STANDARD DRAWING
AUGUST 2015

STRIP SEAL EXPANSION JOINT ASSEMBLY FOR PARAPET WALLS

METRIC
DIMENSIONS ARE IN METRES
AND/OR MILLIMETRES
UNLESS OTHERWISE SHOWN

1. EXPANSION JOINT SHALL BE IN ACCORDANCE WITH THE DESIGNATED SOURCES FOR MATERIALS LIST DSM 9.40.____, TYPE "C". DETAILS SHOWN FOR OTHER TYPES ARE NOT APPLICABLE.
2. EXPANSION JOINT ASSEMBLY COMPLIES CONSTRUCTION AND MATERIAL SHALL BE ACCORDING TO OPSS 920 AND OPSS 1210, AND AS SPECIFIED IN THE CONTRACT DOCUMENTS.
3. STEEL PLATE 10mm THICK UNLESS OTHERWISE NOTED.
4. JOINT ASSEMBLIES SHALL BE COMPLETELY SHOP ASSEMBLED (EXCEPT FOR SEALS) AND PRESET TO DIMENSION 'J' FOR 15°C AND ADJUSTED IN THE FIELD TO SUIT INSTALLATION TEMPERATURE.
5. JOINT ASSEMBLY INSTALLATION TEMPERATURE SHALL BE TAKEN AS MEAN SHADE AIR TEMPERATURE AT STRUCTURE PRIOR TO JOINT INSTALLATION AS FOLLOWS:
 ~~FOR CONCRETE STRUCTURES - 48 HOURS~~
 - FOR STEEL STRUCTURES - 24 HOURS
6. FIELD SPLICES IN JOINT ASSEMBLY ARE ONLY PERMITTED AT STAGED CONSTRUCTION, AND/OR AS SHOWN ON THE CONTRACT DRAWINGS.
7. IF THE JOINT ARMOURING FOR A SKEWED STRUCTURE IS SPLICED AT A CROWN, THE SPLICE SHALL BE DETAILED PARALLEL TO THE CENTRELINE OF THE TRAFFIC LANE.
8. SETTING ANGLES SHALL BE FLAME CUT ACCORDING TO OPSS 920, BUT IN NO CASE PRIOR TO CONCRETE REACHING INITIAL SET.
9. AFTER CURING OF THE CONCRETE HAS BEEN COMPLETED, THE SETTING DEVICES MAY BE REMOVED, THE VOIDS UNDER THE ARMOURING ANGLE AND NOSING ANGLE SHALL THEN BE PRESSURE INJECTED.
10. PREFORMED SEALS SHALL HAVE MINIMUM THICKNESS OF 5mm OR AS PER DSM.
11. ALL STEEL RETAINER SURFACES COMING IN CONTACT WITH PREFORMED SEAL SHALL BE CLEANED PRIOR TO INSTALLATION OF THE SEAL.
12. PREFORMED SEALS SHALL BE INSTALLED AFTER JOINT ASSEMBLY HAS BEEN CAST IN PLACE, STYROFOAM OR FILLER BETWEEN DECK AND BALLAST WALL REMOVED, AND EXPANSION GAP CLEARED OF ANY DEBRIS.
13. FOR POST-TENSIONED CONCRETE BRIDGES, JOINT ASSEMBLY SHALL NOT BE INSTALLED UNTIL AT LEAST N/A DAYS AFTER COMPLETION OF POST-TENSIONING OPERATIONS.
14. RAISED MEDIANS ON STRUCTURES SHALL BE PROVIDED WITH SLIDING PLATES. PLATE THICKNESS AND ANCHORAGES SHALL CONFORM TO SIDEWALK DETAILS, AND SHALL ACCOMMODATE INSTALLATION OF SEALS.
15. FOR SKEWED STRUCTURE, WORKING DRAWINGS SHALL BE DETAILED TO SUIT GEOMETRY OF STRUCTURE.
16. ALL JOINT ANCHORAGES SHALL BE DETAILED ON WORKING DRAWINGS PERPENDICULAR TO THE EXPANSION JOINT ON BOTH THE DECK SIDE AND THE ABUTMENT SIDE EXCEPT AS FOLLOWS. STRUCTURES SKEWED FROM OVER 15° AND UP TO 45° SHALL HAVE ANCHORAGES DETAILED 30° OFFSET FROM THE PERPENDICULAR TO THE EXPANSION JOINT ON THE DECK SIDE.
17. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING ~~SS113-12~~ OR SS113-13.
18. LEGEND: [] DENOTES FASTENER SIZE IN INCHES.
19. DETAILS SHOWN FOR EAST SIDEWALK APPLY TO WEST SAFETY CURB.

1. 19 [3/4] DIAMETER BOLTS SHALL BE IN ACCORDANCE WITH WITH ASTM A325. ALL BOLTS USED IN 25 DIA. x 50 LONG SLOTTED HOLES SHALL BE INSTALLED WITH OVERSIZE WASHERS.
2. 16 [5/8] DIAMETER FLAT COUNTERSUNK HEAD CAP BOLTS SHALL BE IN ACCORDANCE WITH ASTM F835.
3. CLAMPING BAR BOLTS FOR TYPE 'A' JOINTS SHALL BE 19 [3/4] DIAMETER HEX HEAD BOLTS IN ACCORDANCE WITH ASTM A325. CLAMPING BAR BOLTS SHALL BE TENSIONED TO 125kN.
4. ALL BOLTS SHALL BE INSTALLED USING MOLY50 LUBRICANT.
5. ALL BOLTS SHALL BE TENSIONED USING THE TURN-OF-NUT TIGHTENING METHOD IN ACCORDANCE WITH CAN/CSA S6-06.



DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

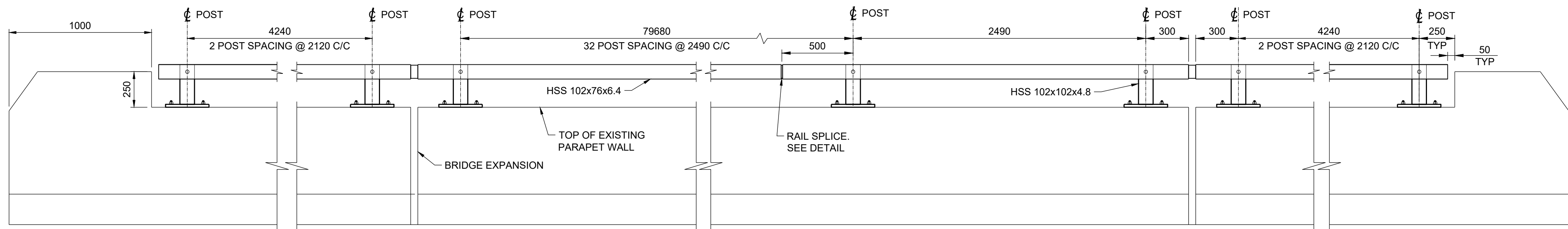
DRAWING:

STRIP SEAL EXPANSION JOINT
ASSEMBLY FOR PARAPET WALL

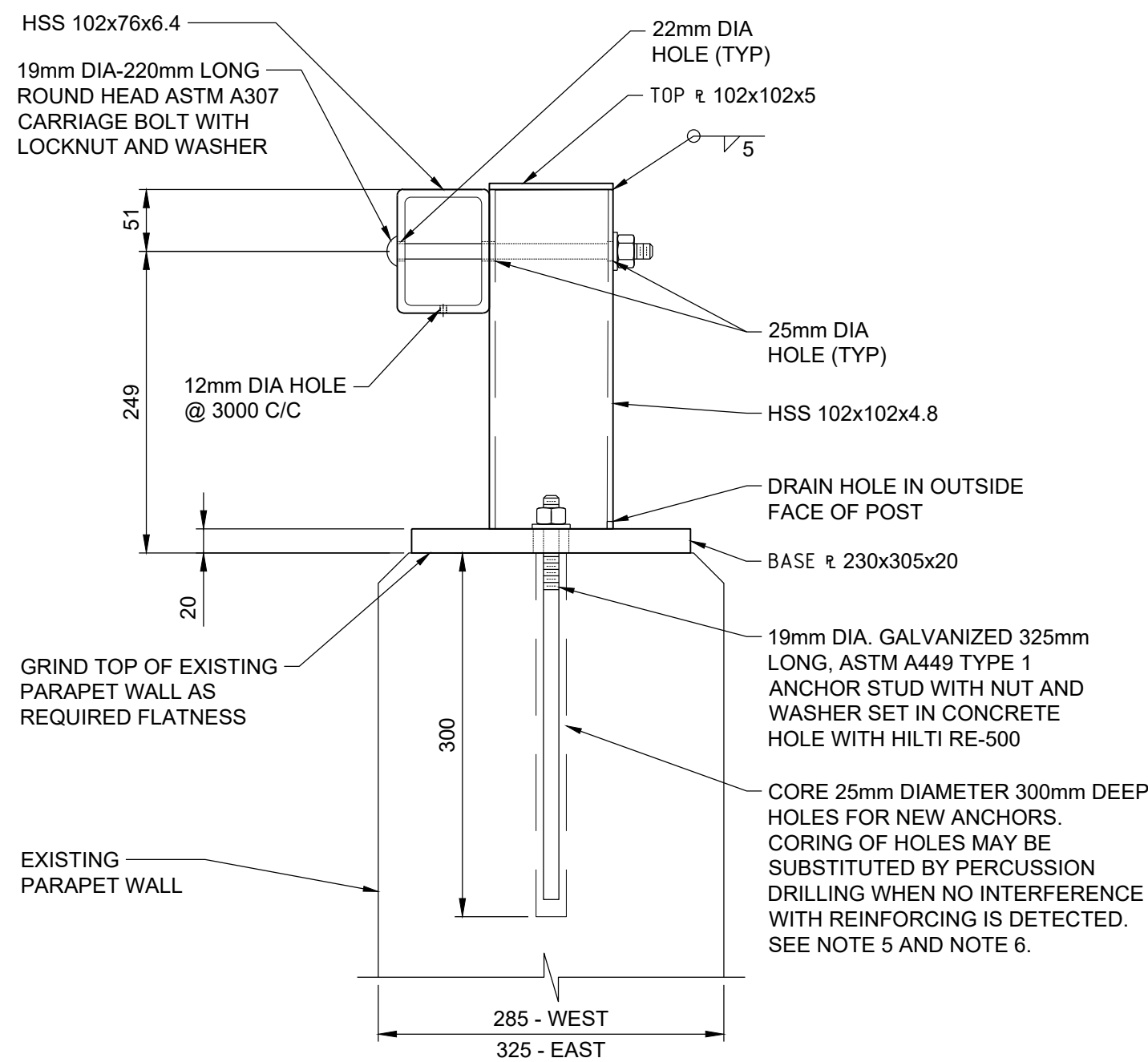
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CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 20
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

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PLOT DATE: Mar 04, 2022 - 9:28am
DRAWN BY: Meunier, Adrian

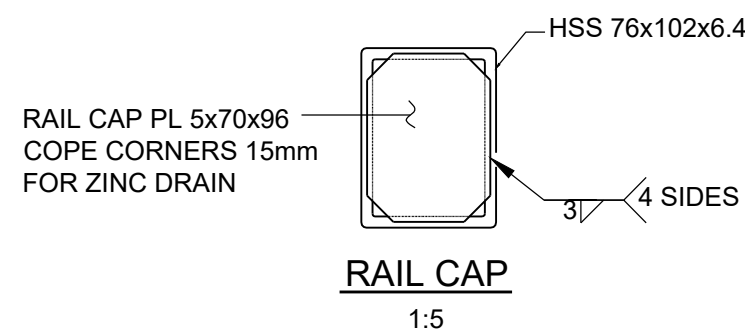
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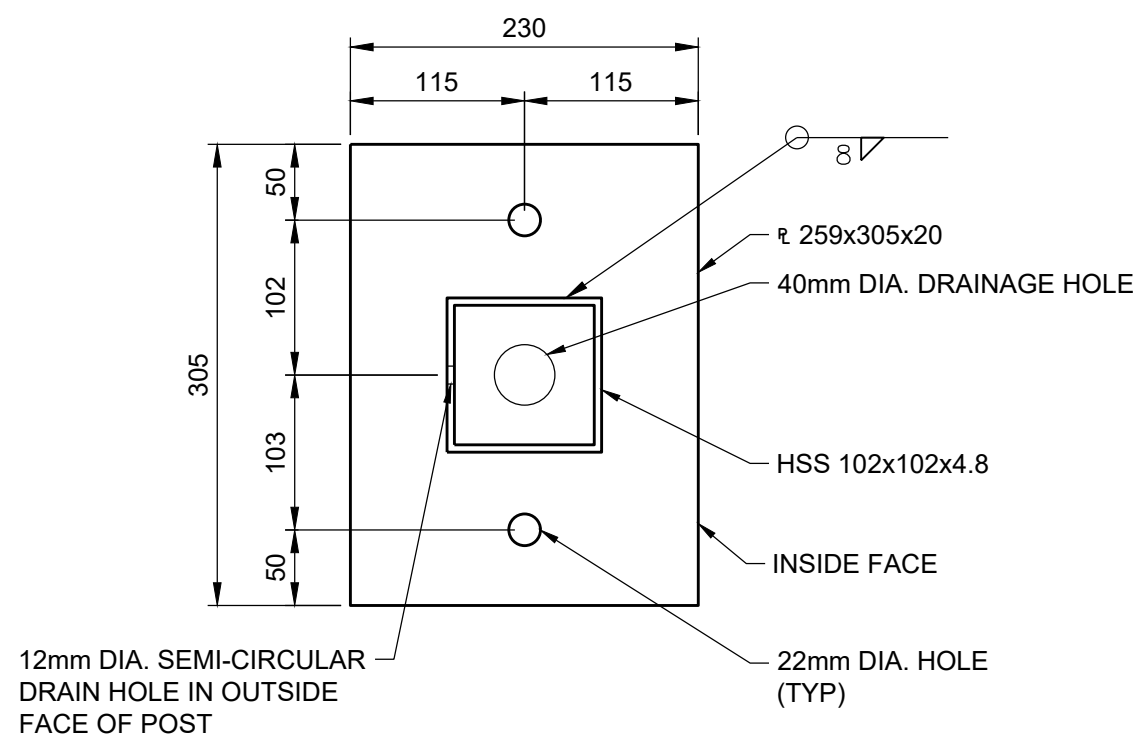
RAILING LAYOUT
1:20



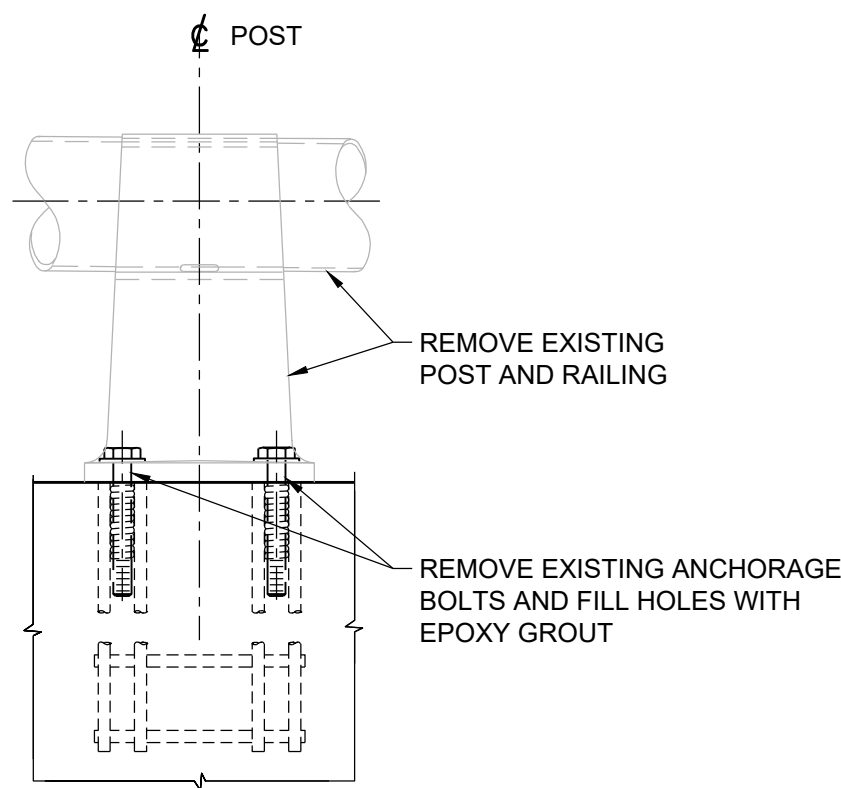
RAILING BASE PLATE
1:5



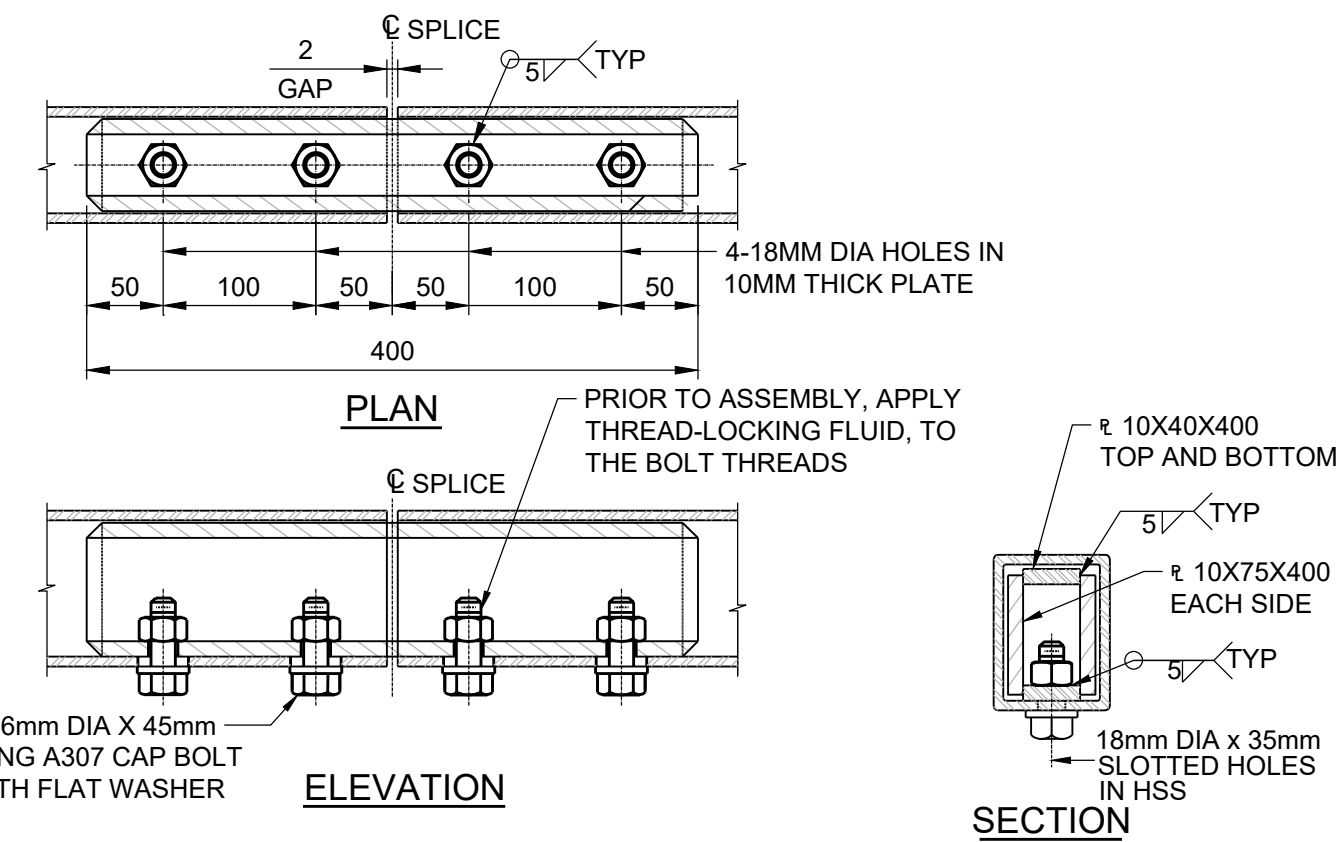
RAIL CAP
1:5



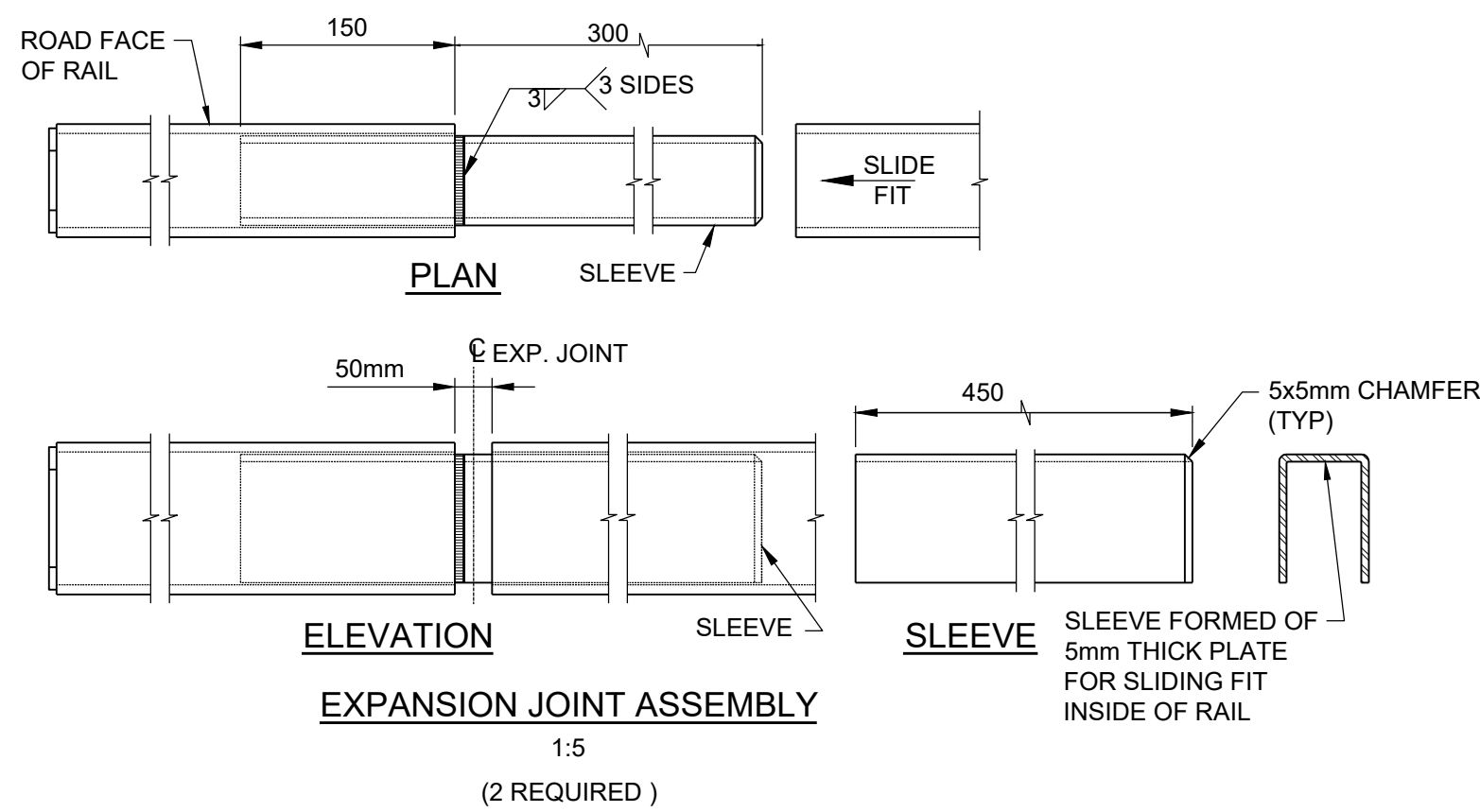
RAILING BASE PLATE
1:5



EXISTING RAILING POST REMOVAL
1:5



RAIL SPLICE DETAIL
1:5



EXPANSION JOINT ASSEMBLY
1:5
(2 REQUIRED)

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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

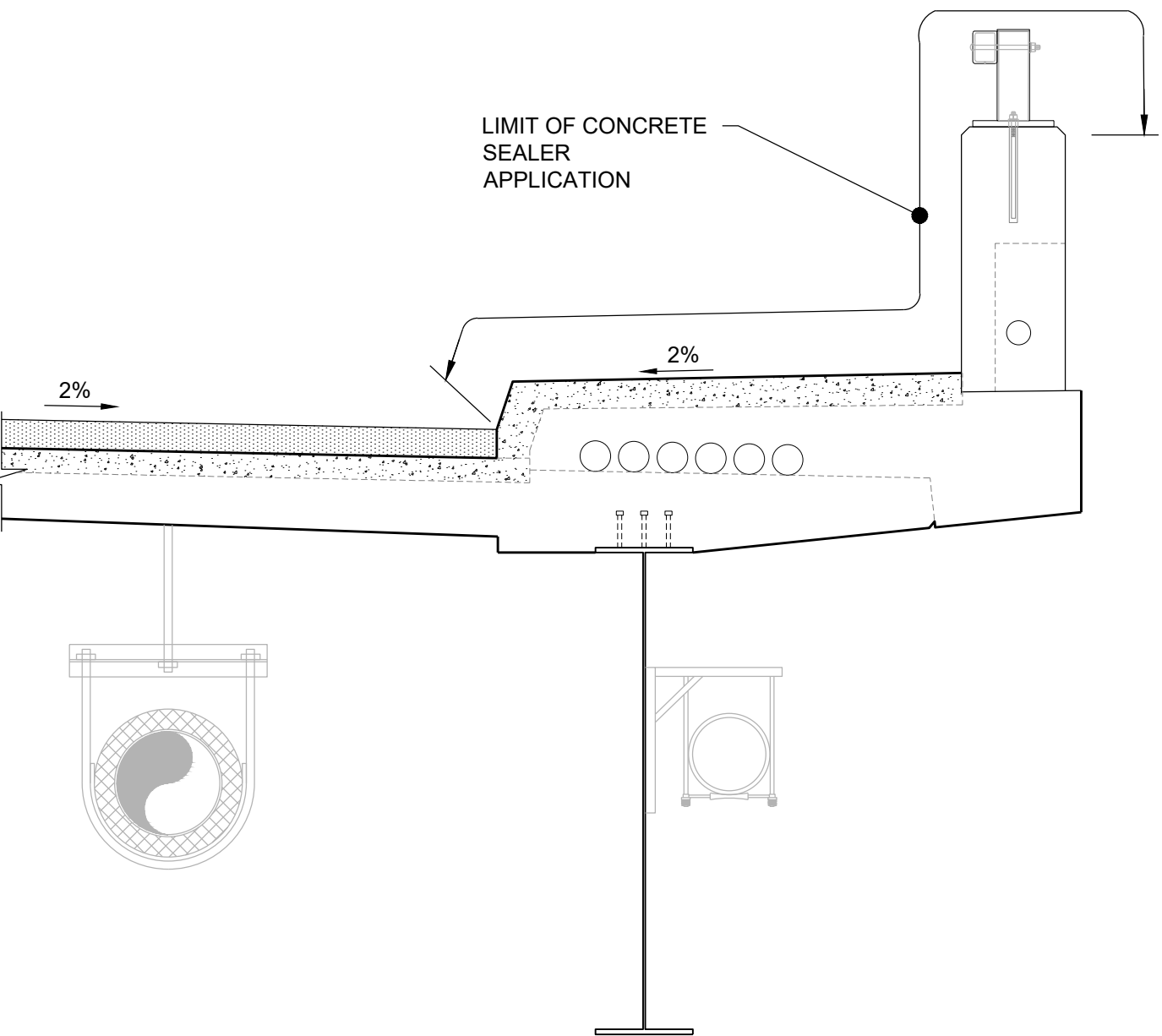
DRAWING:

TRAFFIC RAILING

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 21
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

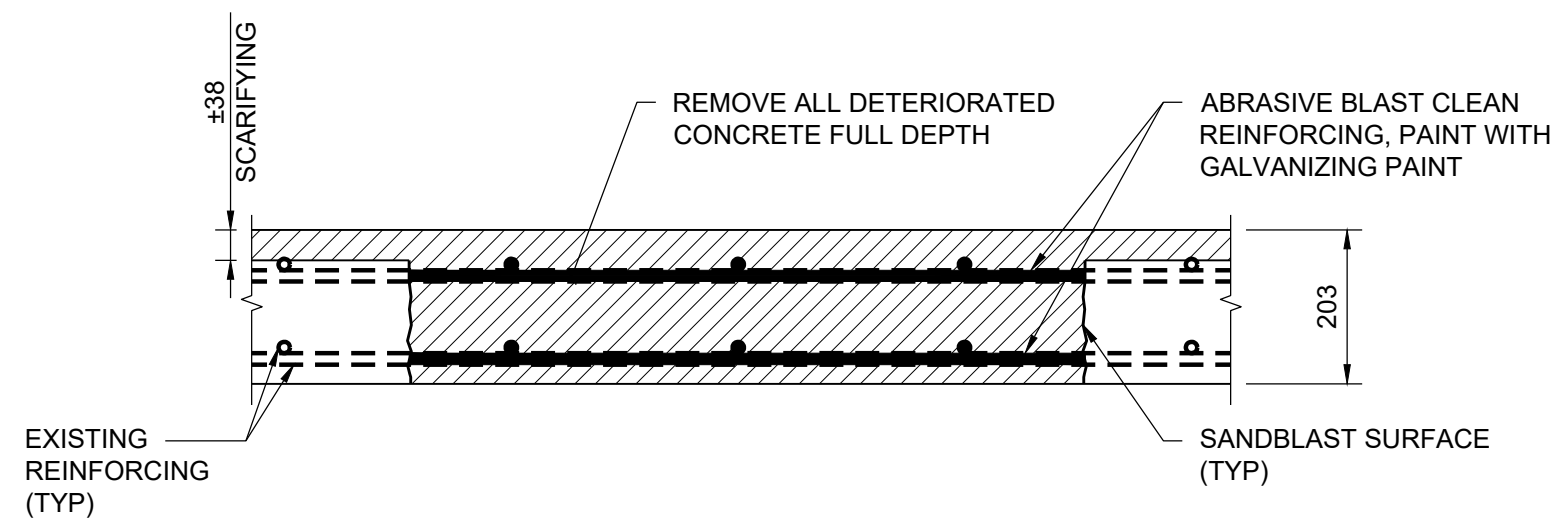
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PLOTDATE: Mar 04, 2022 - 9:25am
DRAWN: BR Meunier / Adnan

(A1 841mm x 594mm)

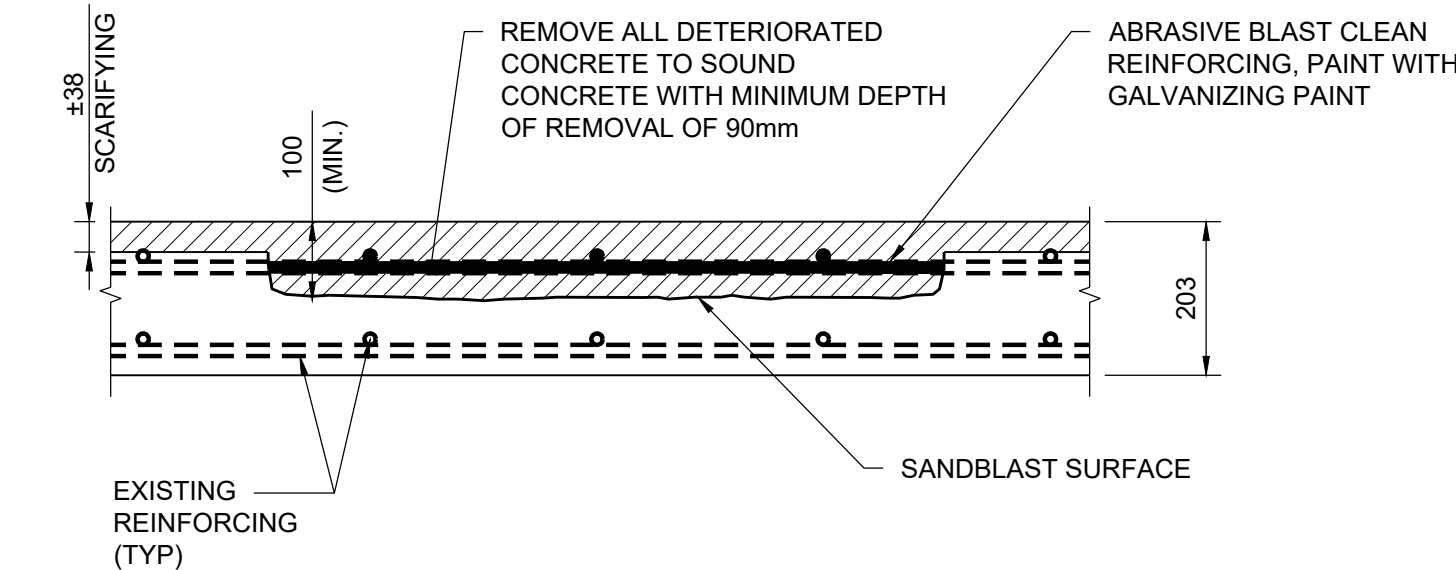


LIMIT OF SEALER APPLICATION ON BARRIER WALL

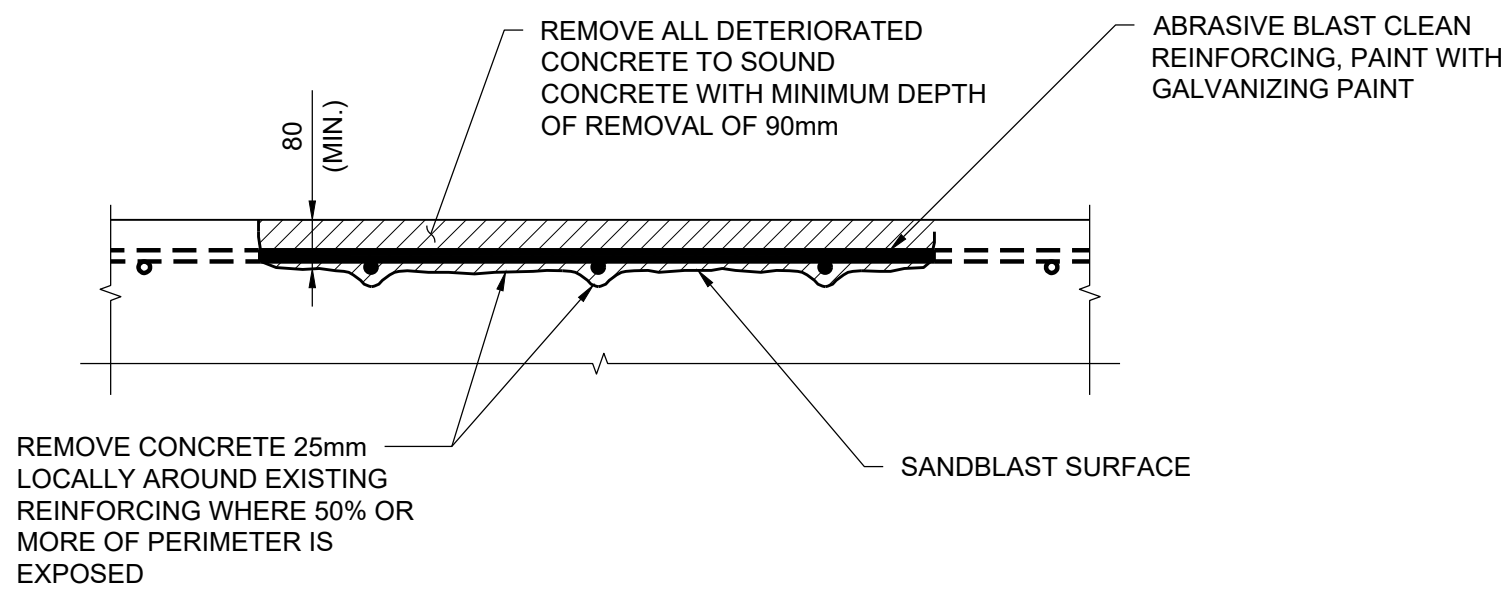
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TYPICAL FULL DEPTH
CONCRETE REMOVAL ON DECK
N.T.S.



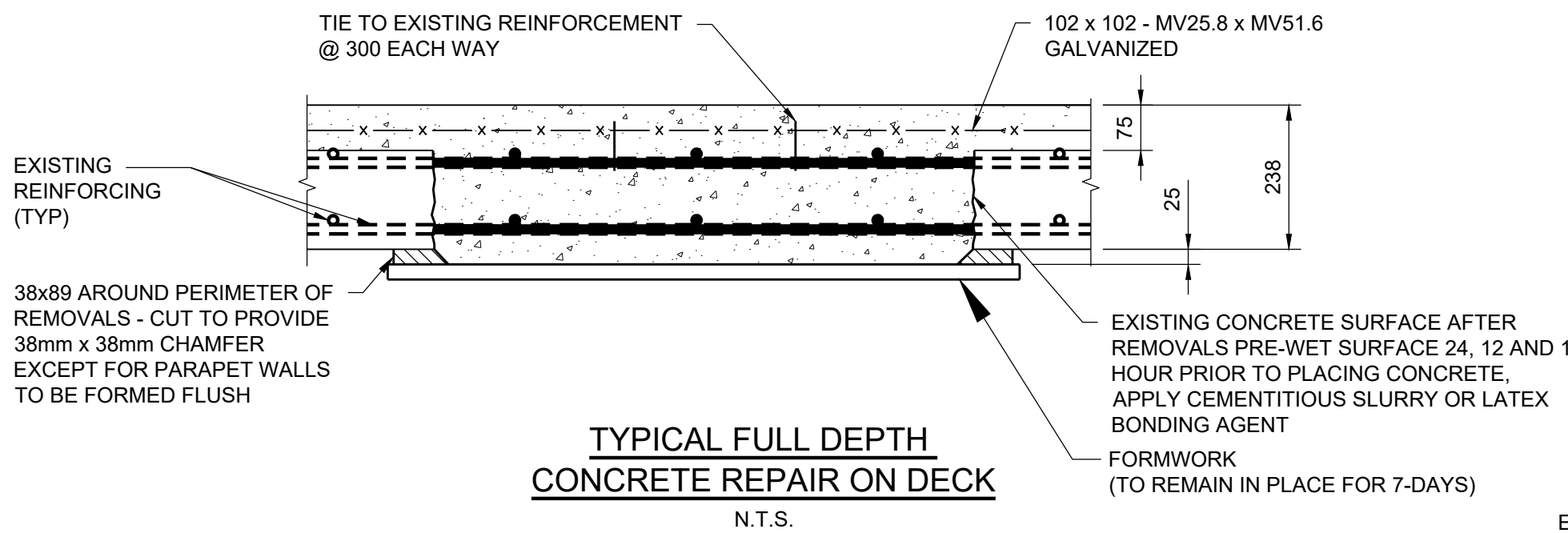
TYPICAL PARTIAL DEPTH
CONCRETE REMOVAL ON DECK
N.T.S.



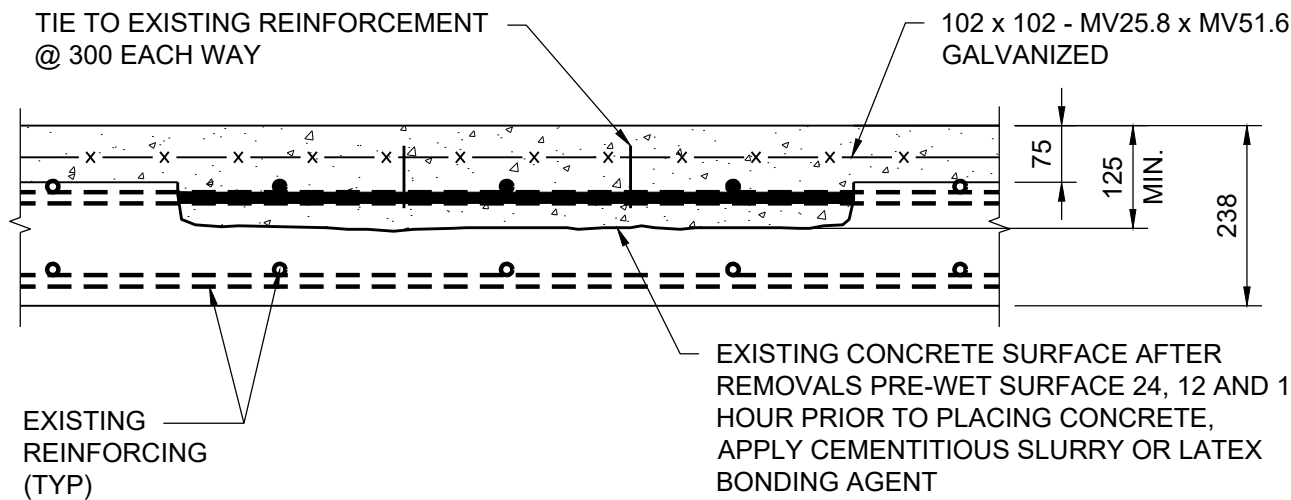
TYPICAL PARTIAL DEPTH
CONCRETE REMOVAL
N.T.S.

CONCRETE SEALER NOTE:

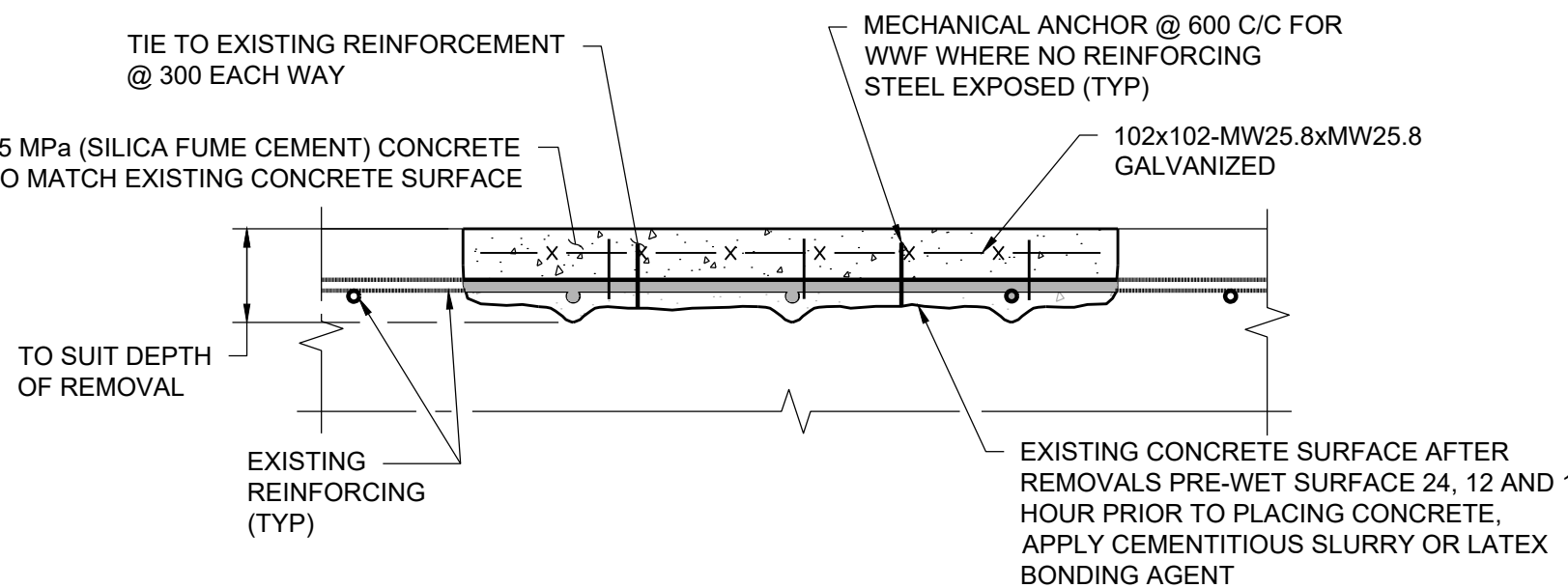
1. THE ENTIRE LENGTH OF THE EXISTING PARAPET WALL OVER DECK AND WINGWALLS FOLLOWING COMPLETION OF REFACING TO BE SANDBLASTED AND TWO COATS OF PENETRATING SEALER SHALL BE APPLIED.
2. THE PENETRATING SEALER SHALL ALSO BE APPLIED TO CONCRETE SURFACE OF EXPANSION JOINTS. JOINT SEALS SHALL BE PROTECTED PRIOR TO APPLICATION OF SEALER.
3. A WATER JET APPLICATION MAY BE USED ON OUTSIDE FACE OF PARAPET WALLS TO EQUIVALENT PERFORMANCE OF SANDBLASTING.
4. THE APPLICATION RATE AND METHOD SHALL BE IN FULL COMPLIANCE WITH MANUFACTURER'S INSTRUCTION.
5. THE WORK SHALL BE CARRIED OUT AND BE CERTIFIED BY MANUFACTURER'S APPLICATORS.
6. SEE SPECIFICATION FOR TYPE OF APPROVED PRODUCT AND OTHER DETAILS.



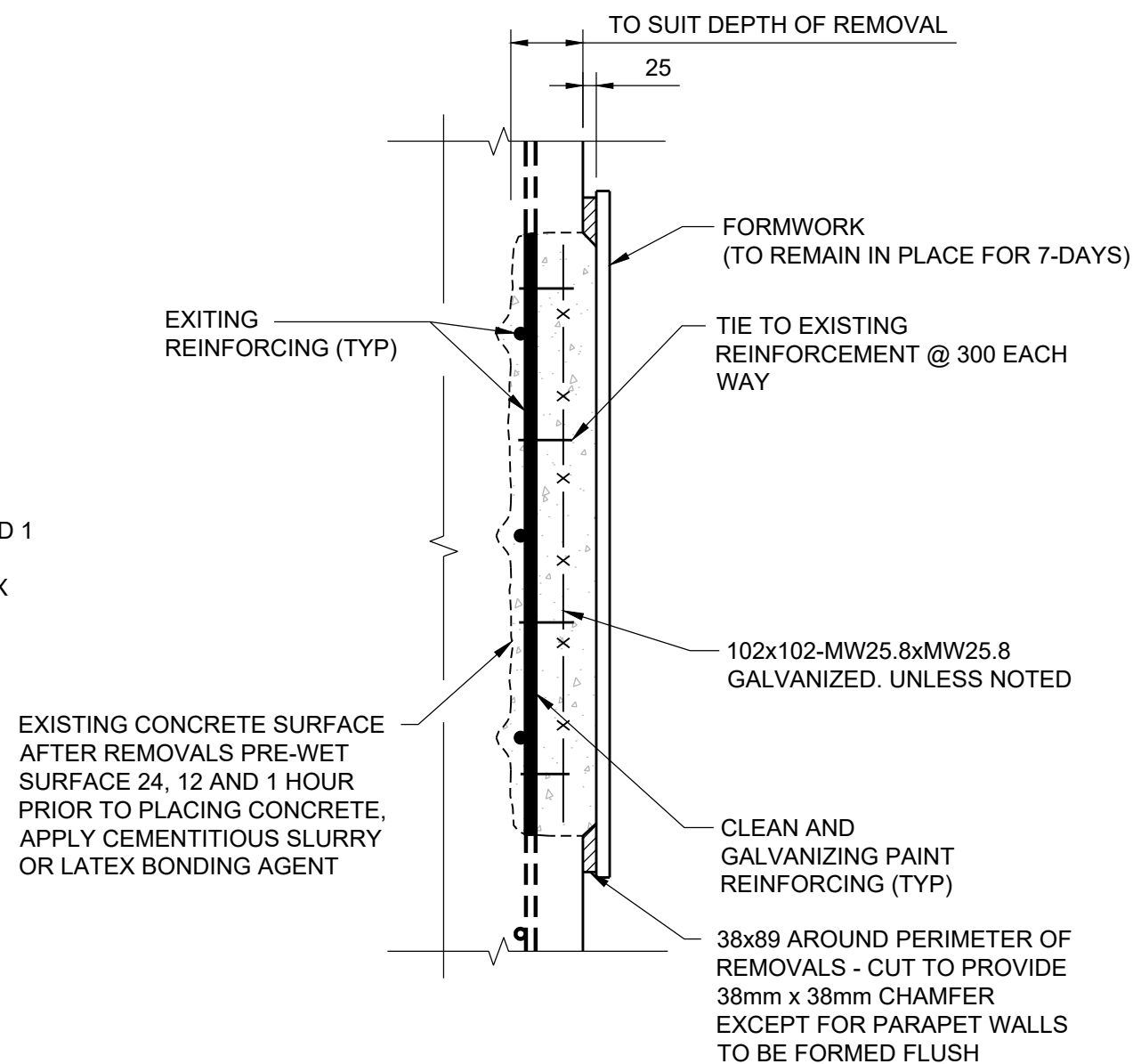
TYPICAL FULL DEPTH
CONCRETE REPAIR ON DECK
N.T.S.



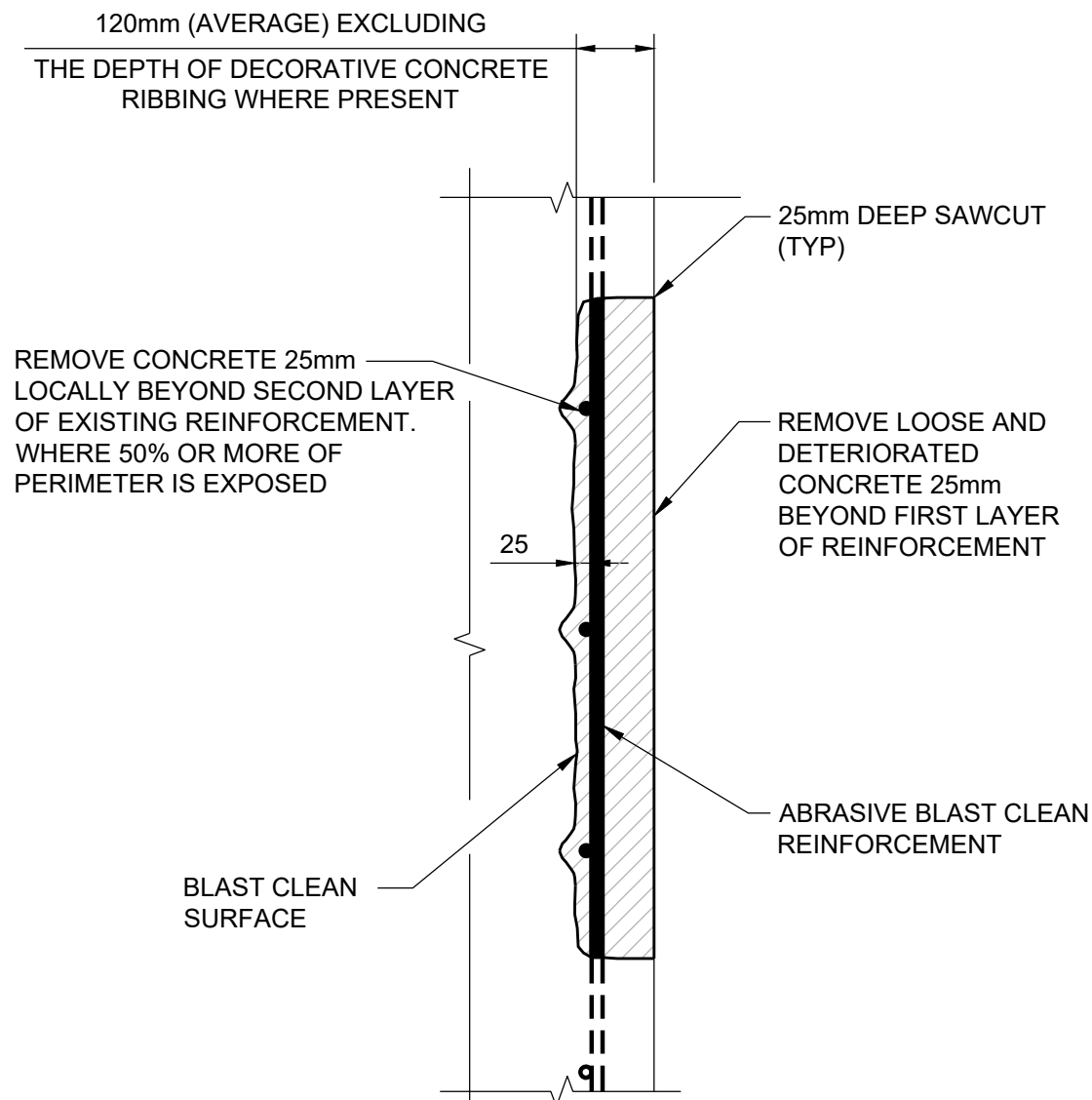
TYPICAL PARTIAL DEPTH
CONCRETE REPAIR ON DECK
N.T.S.



TYPICAL FORMED CONCRETE REPAIR
HORIZONTAL SURFACE



TYPICAL FORMED CONCRETE REPAIR
VERTICAL SURFACE
(EXCLUDING REFACING OF PARAPET WALL)



TYPICAL CONCRETE REMOVAL
VERTICAL SURFACE
(EXCLUDING REFACING OF PARAPET WALL)

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K8A 6W5
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PROJECT:

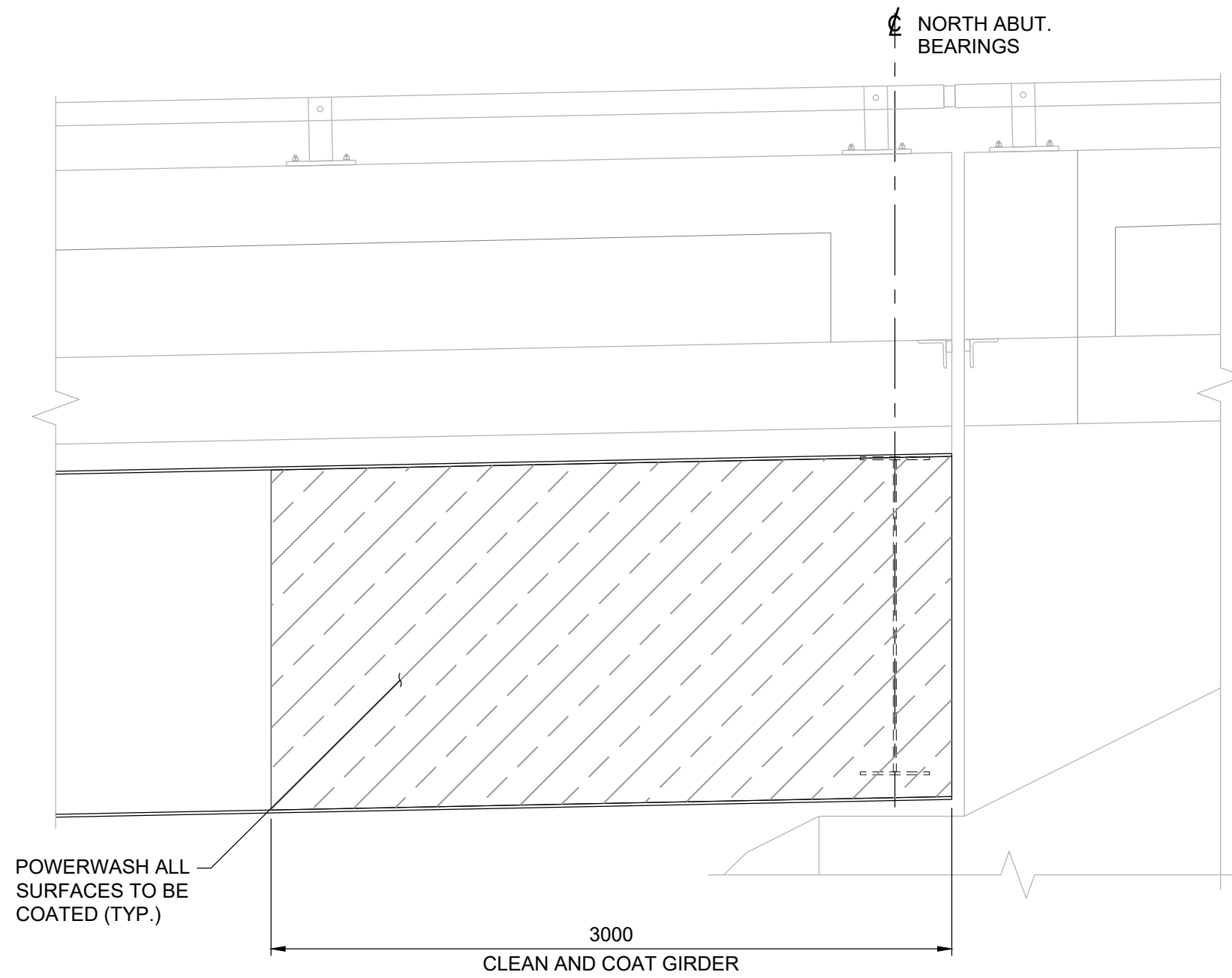
PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

DETAILS - CONCRETE REPAIRS

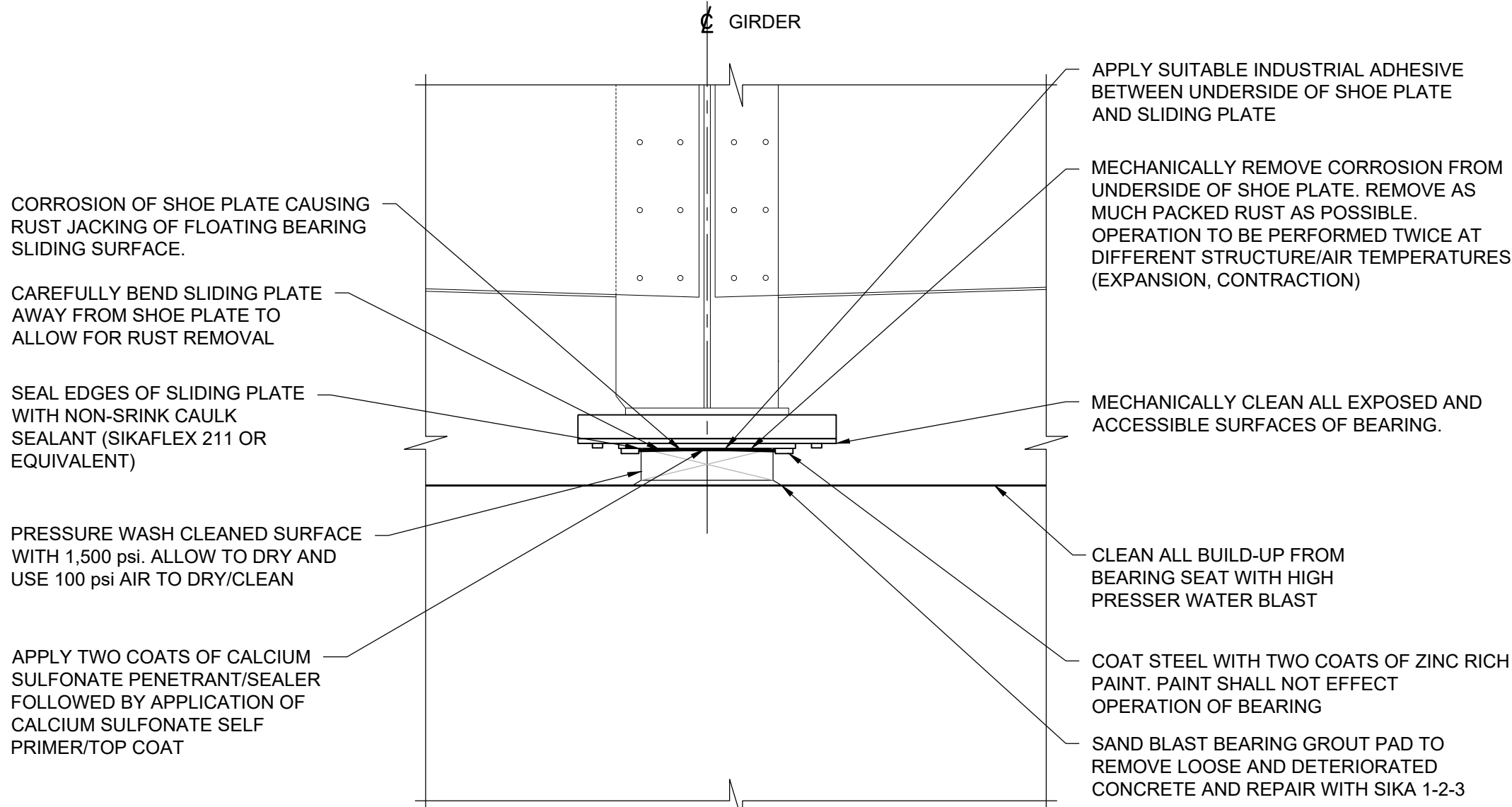
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CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 22
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF



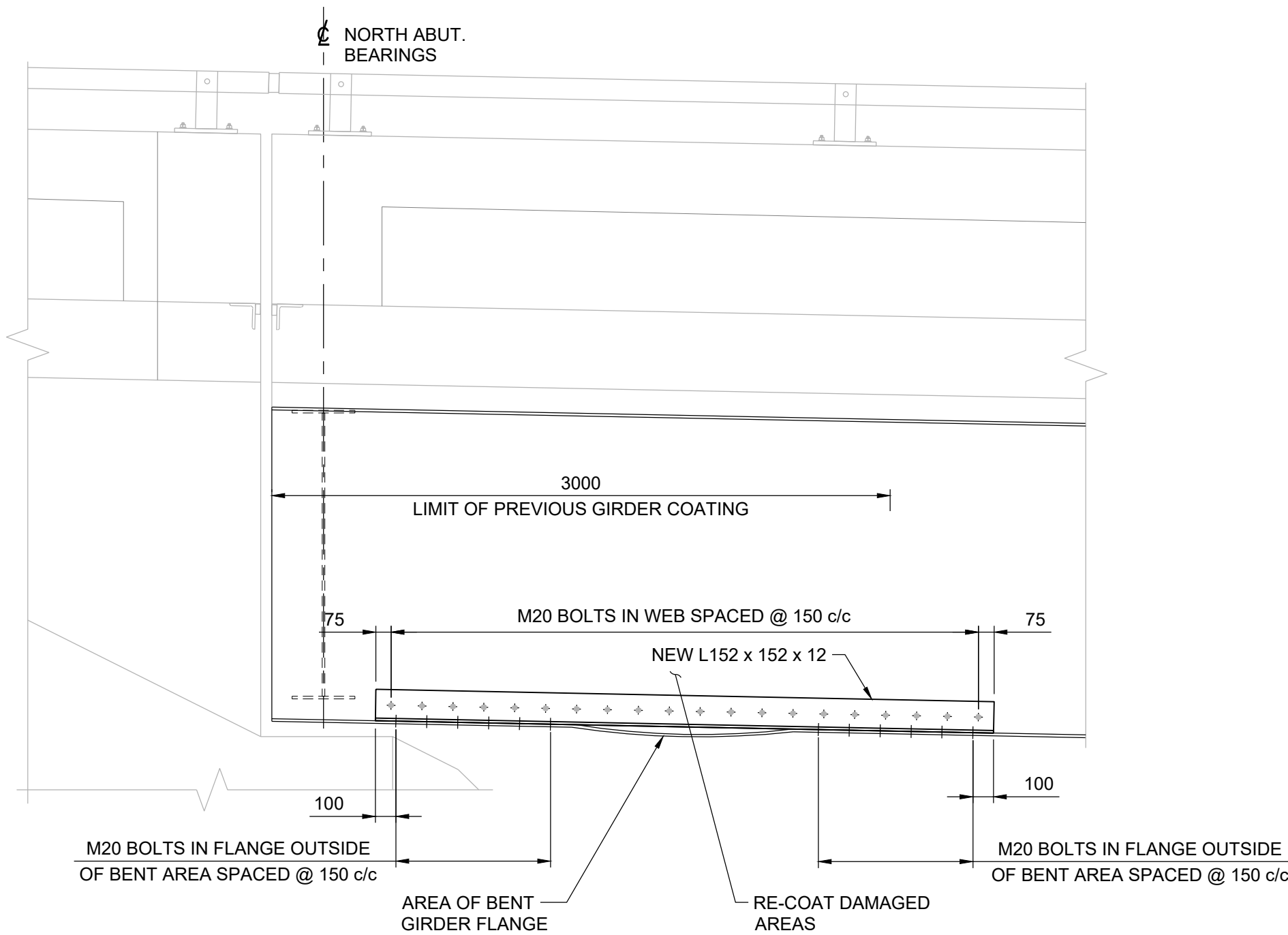
LIMITS OF STRUCTURAL STEEL PAINTING OVER BOTH ABUTMENTS

1:25



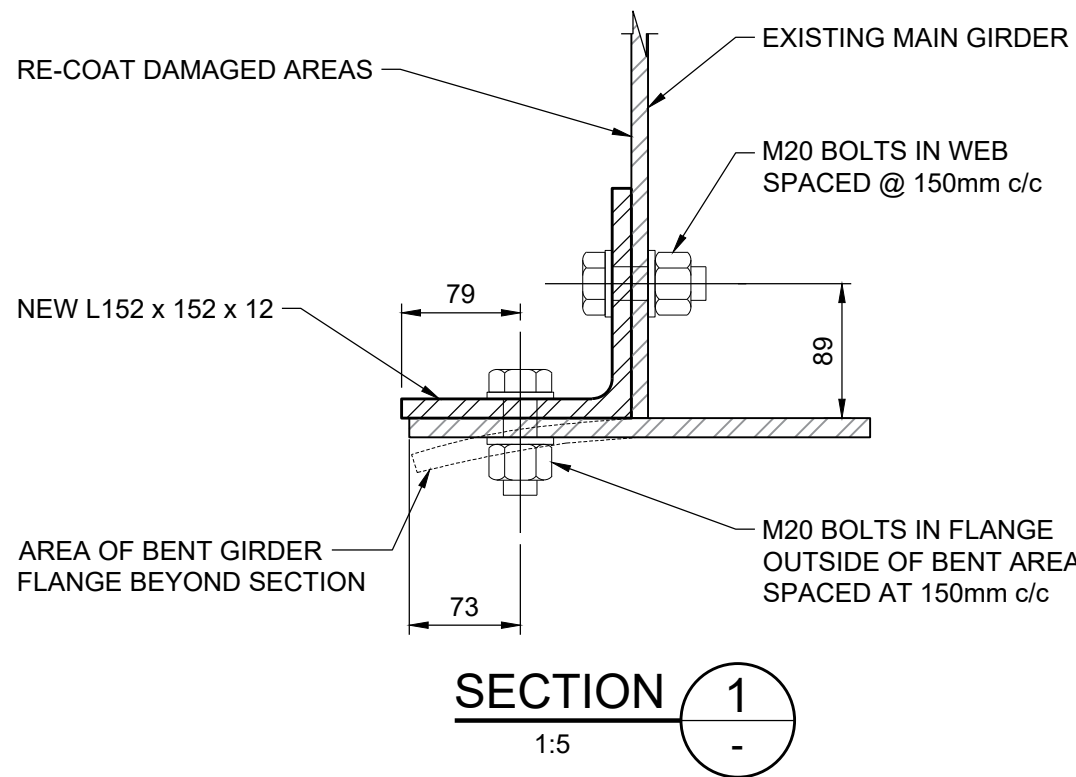
BEARING CLEANING DETAILS

1:10



NORTHWEST EXT. GIRDER REPAIR

1:25



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.ELEVATION FOR TOP OF EXISTING DECK SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.
2. WATER BLAST CLEAN, AND PAINT AREA FOLLOWING DRILLING HOLES, PRIOR TO INSTALLING REINFORCING ANGLE

RUST JACKING REMOVAL NOTES:

1. MECHANICALLY REMOVE ALL SEALANTS.
2. ANGLE GRIND CORROSION AS MUCH AS POSSIBLE.
3. USE SHAPED AND SHARPENED TOOL TO REMOVE CORROSION AND PACKED RUST AS MUCH AS POSSIBLE.
4. CLEAN WITH 5,000 psi WATER BLAST.

RUST JACKING REPAIR NOTES:

1. ALLOW WATER BLASTED AREA TO FULLY DRY.
2. APPLY CALCIUM SUFONATE PENETRANT SEALER.
3. ALLOW PENETRANT SEALER TO FULLY DRY.
4. APPLY CAULK SEALANT (SIKAFLEX 211 OR EQUIVALENT)



300-2611 QUEENSWAY DRIVE
OTTAWA (ONTARIO)
CANADA K2B 8K2
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WWW.WSP.COM

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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

STRUCTURAL STEEL REPAIRS
COATING AND BEARING
REFURBISHMENT DETAIL

DESIGN BY:
Z.F.W.

DRAWN BY:
A.E.M.

CHECKED BY:

APPROVED BY:

DATE DRAWN :
FEB 2022

PROJECT # :
211-13633-00

SCALE:
HOR. AS SHOWN
VERT. AS SHOWN

DRAWING # :
23

DATE PRINTED :
March 4, 2022

FILE # :
PWC-2021-56

OF

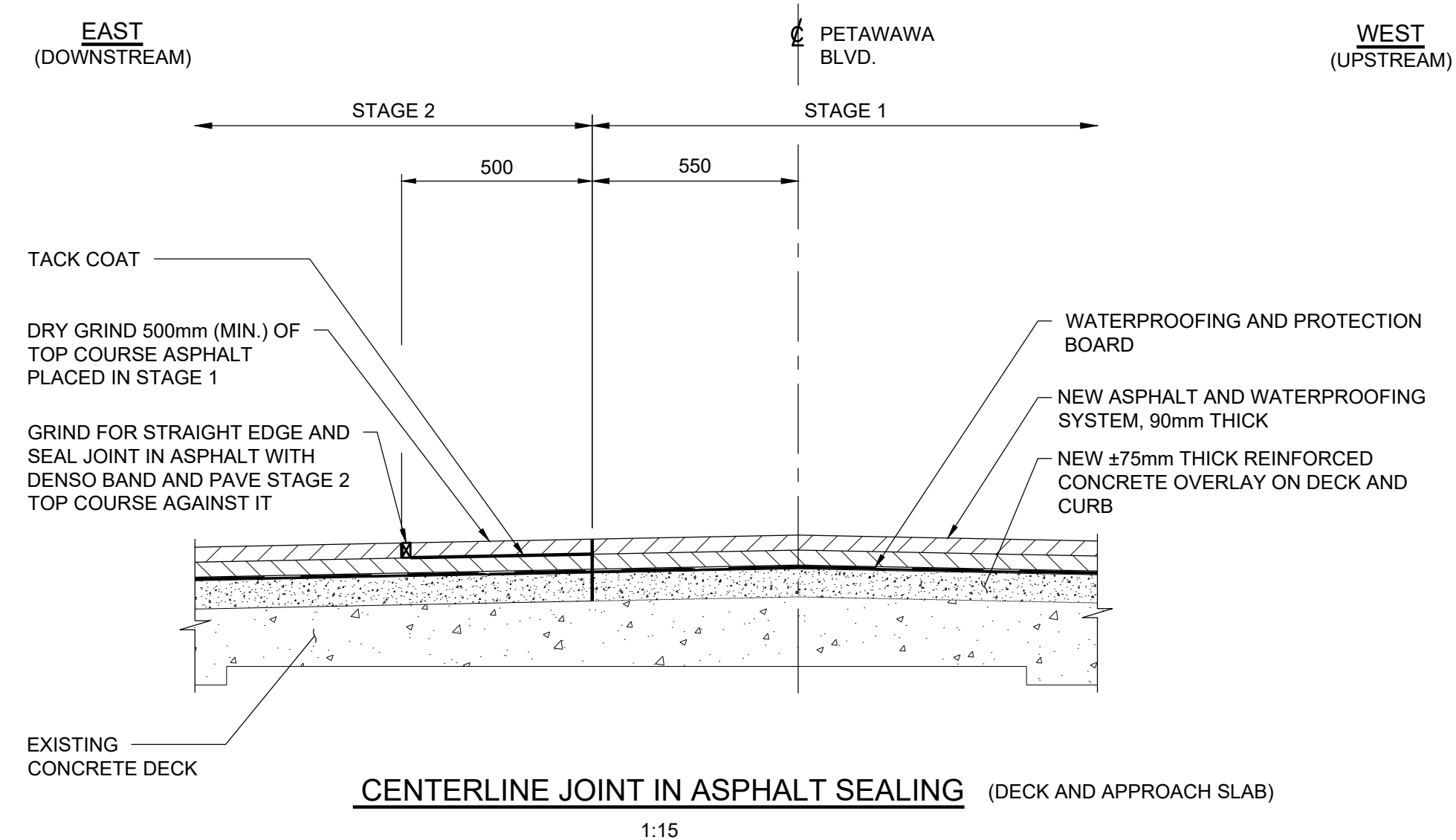


Diagram illustrating the cross-section of a bridge deck repair. The diagram shows the existing deck structure and the new overlay. Key components labeled include:

- CONTROL JOINT IN OVERLAY (SEE NOTE 3)
- NEW ASPHALT
- WATERPROOFING MEMBRANE AND PROTECTION BOARD (TYP)
- 300mm WIDE SOLID RUBBER BUTYL MEMBRANE REINFORCING STRIP, SANDWICHED BETWEEN WATERPROOFING AND PROTECTION BOARD.
- NEW CONCRETE DECK OVERLAY
- EXISTING ORIGINAL CONSTRUCTION JOINT
- EXISTING DECK

CONCRETE END DAM (TYP)

PLACE DENSO BAND JOINT SEALING COMPOUND PRIOR TO PAVING TOP COURSE (TYP)

WATERPROOFING TO EXTEND UP FACE OF CONCRETE END DAM

BEARING

WATERPROOFING AND PROTECTION BOARD

NEW ASPHALT (TYP)

This technical cross-section diagram illustrates the construction details for a concrete end dam and its waterproofing. The diagram is divided into two main sections by a vertical centerline. On the left, a concrete end dam is shown with a sloped face. A joint is indicated where the top course of paving is placed, with a note to 'PLACE DENSO BAND JOINT SEALING COMPOUND PRIOR TO PAVING TOP COURSE (TYP)'. The dam is supported by a base. On the right, the dam is shown in cross-section, revealing the internal structure and the 'BEARING' layer. A 'WATERPROOFING AND PROTECTION BOARD' is applied to the face of the dam, and 'NEW ASPHALT (TYP)' is shown on top. A note indicates 'WATERPROOFING TO EXTEND UP FACE OF CONCRETE END DAM'. The diagram uses various hatching and line styles to represent different materials and construction layers.

1:10

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Renob\SHEETS\211-13633-00_50.dwg
PLOTDATE: Mar 04, 2022 - 9:25am
DRAWN BY: Meunier, Adrian

(A1 841mm x 594mm)

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.ELEVATION FOR TOP OF EXISTING DECK SHALL BE RECORDED PRIOR TO CONCRETE REMOVALS TO CALCULATE TOP OF OVERLAY ELEVATION.



300-2611 QUEENSWAY DRIVE
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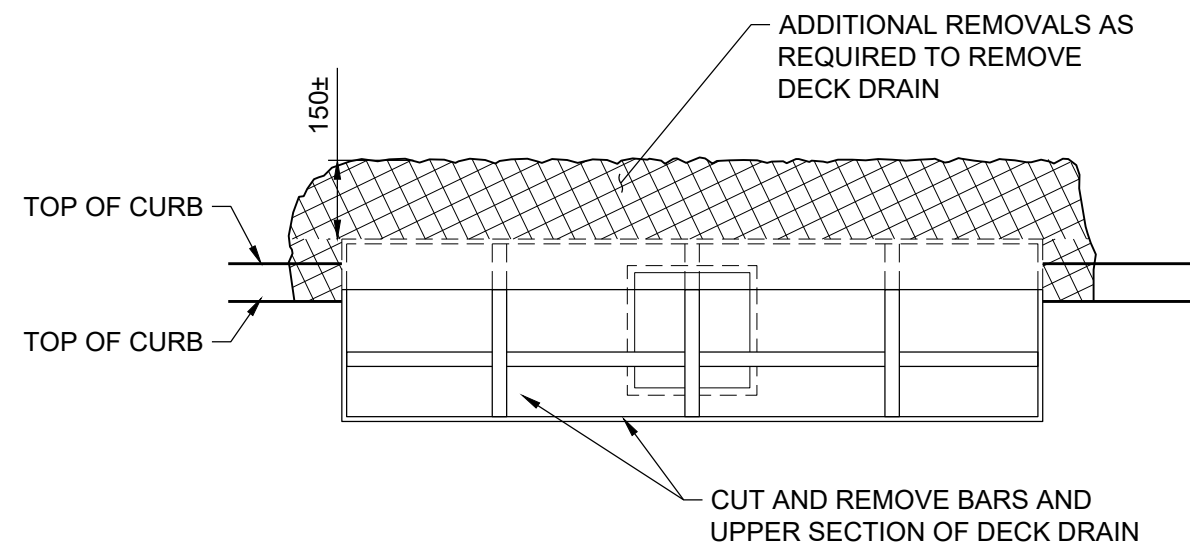
PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

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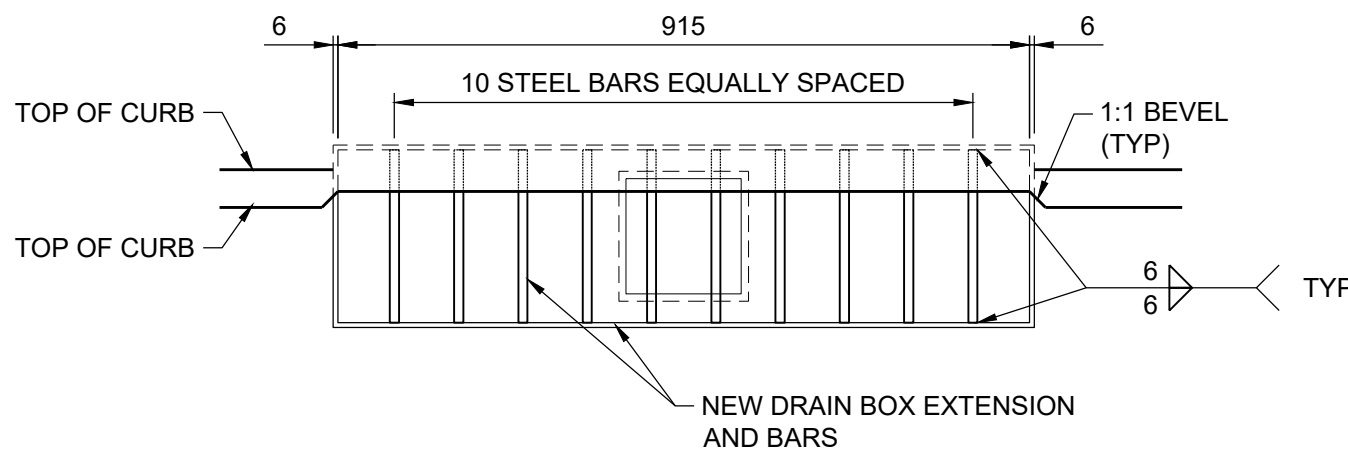
WATERMAIN SUPPORT DETAILS

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 25
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56



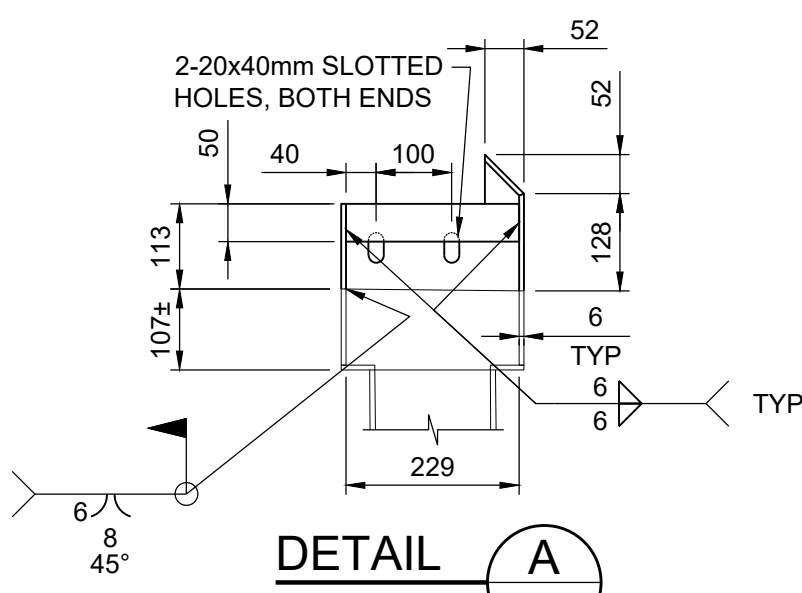
PLAN - DECK DRAIN - REMOVAL

1:10



PLAN - DECK DRAIN - RECONSTRUCTION

1:10

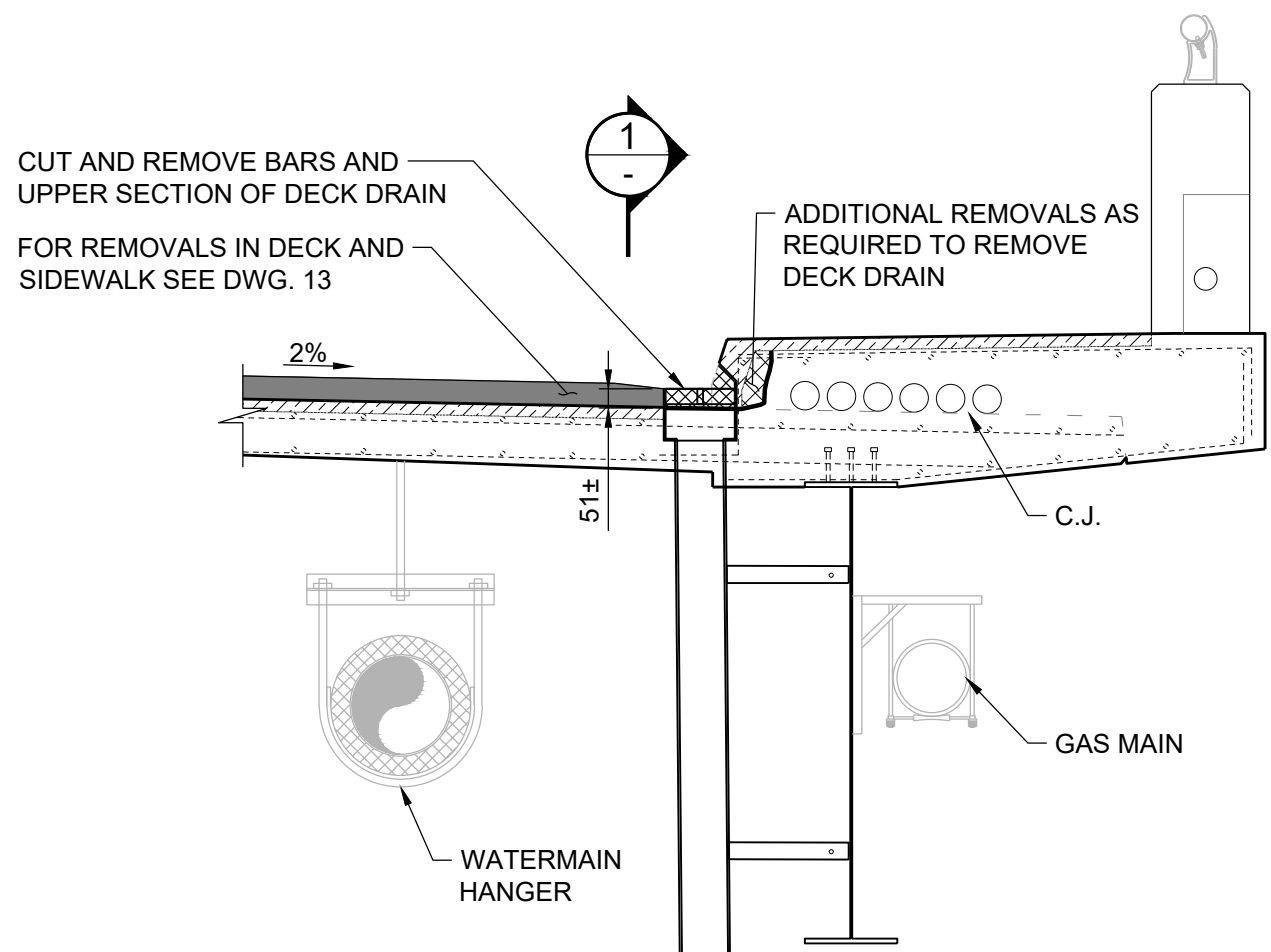


DETAIL A

1:10

NOTES

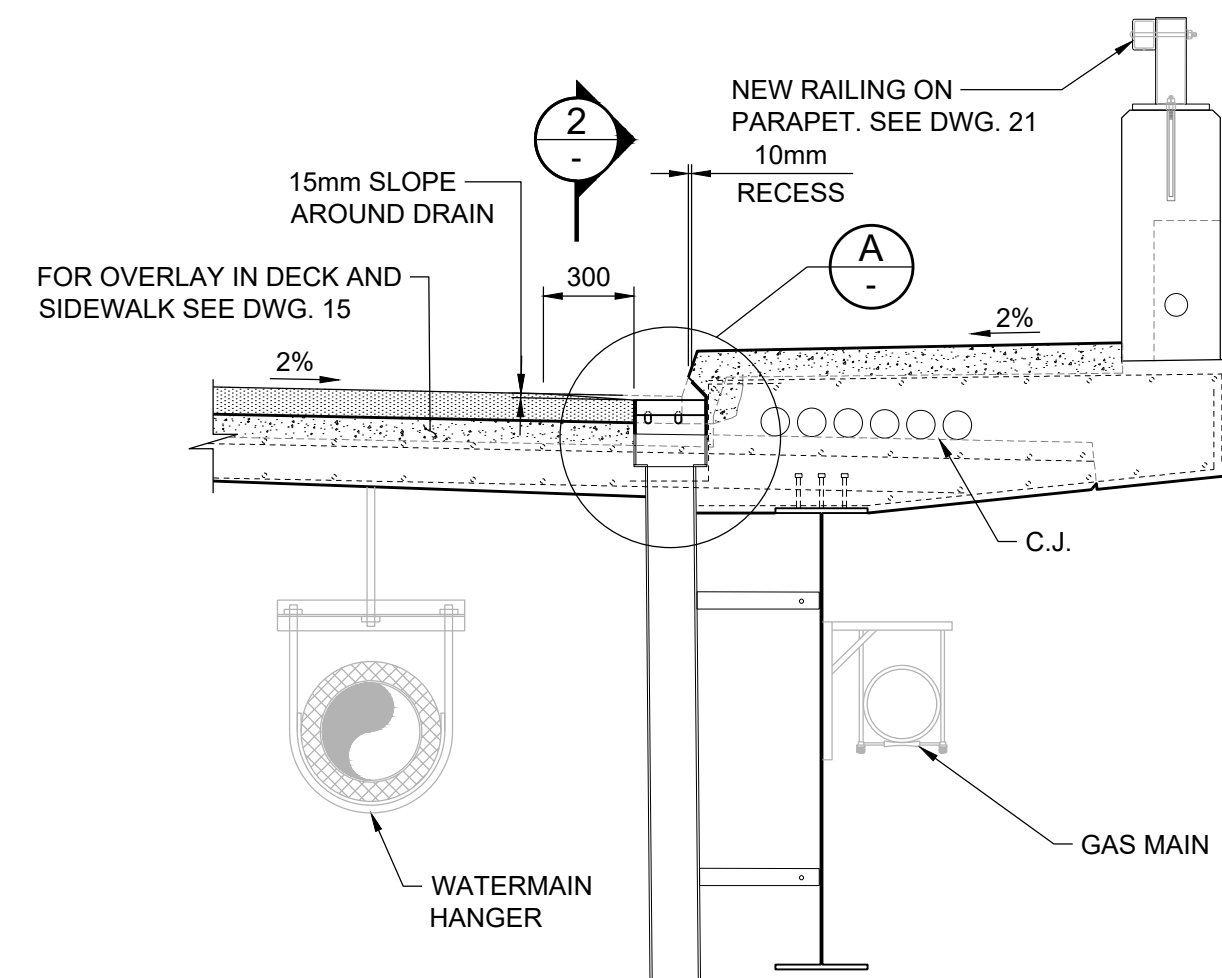
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT ON DRAWING 02 AND PROJECT NOTES ON DRAWING 02.
2. AFTER FABRICATION AND WELDING, ALL DRAIN COMPONENTS SHALL BE COLD GALVANIZED WITH TWO COATS OF PAINT.



SECTION - DECK DRAIN - REMOVAL

1:25

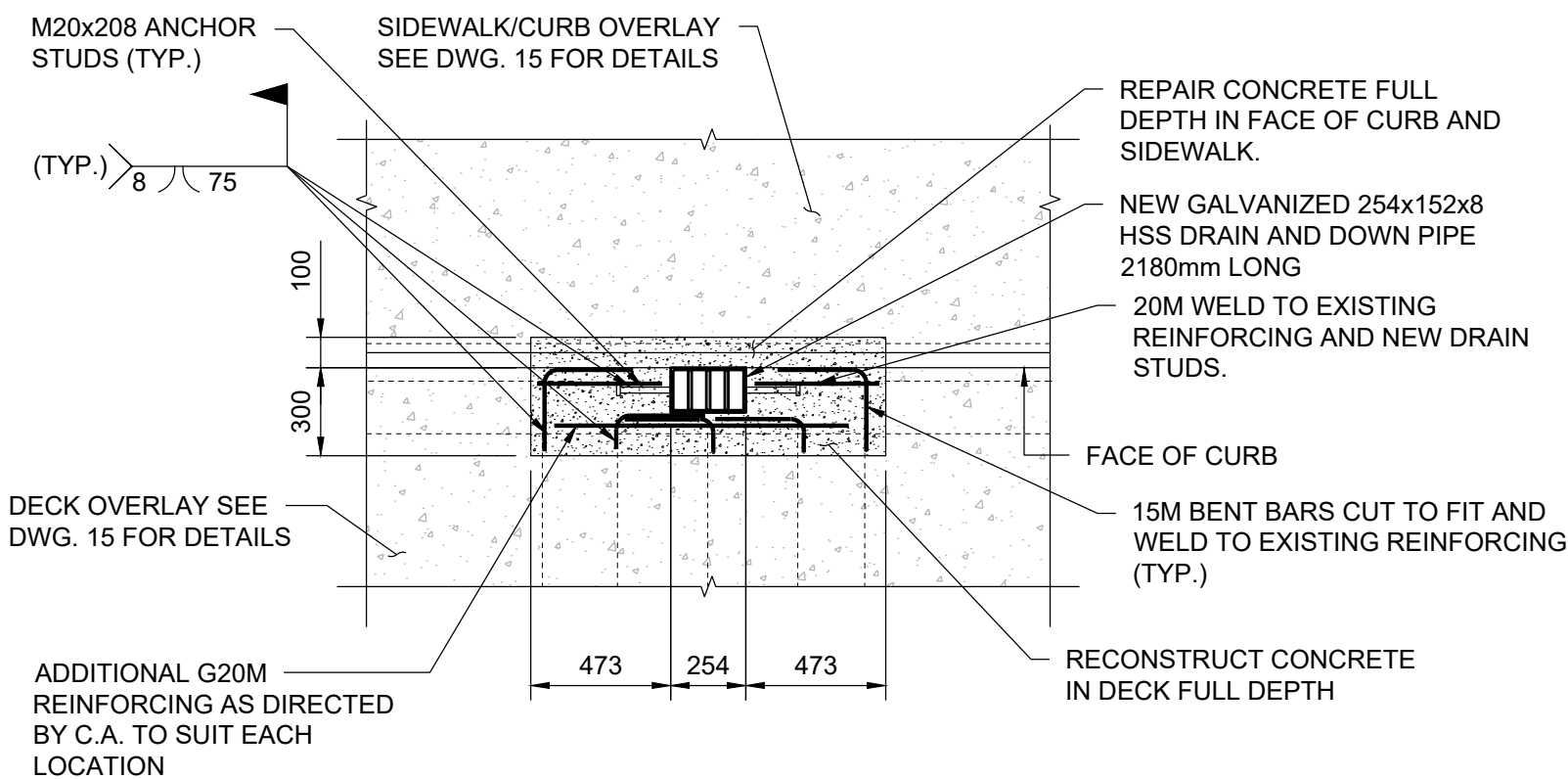
(EAST SIDE OF DECK SHOWN, WEST SIDE OF DECK SIMILAR)



SECTION - DECK DRAIN - RECONSTRUCTION

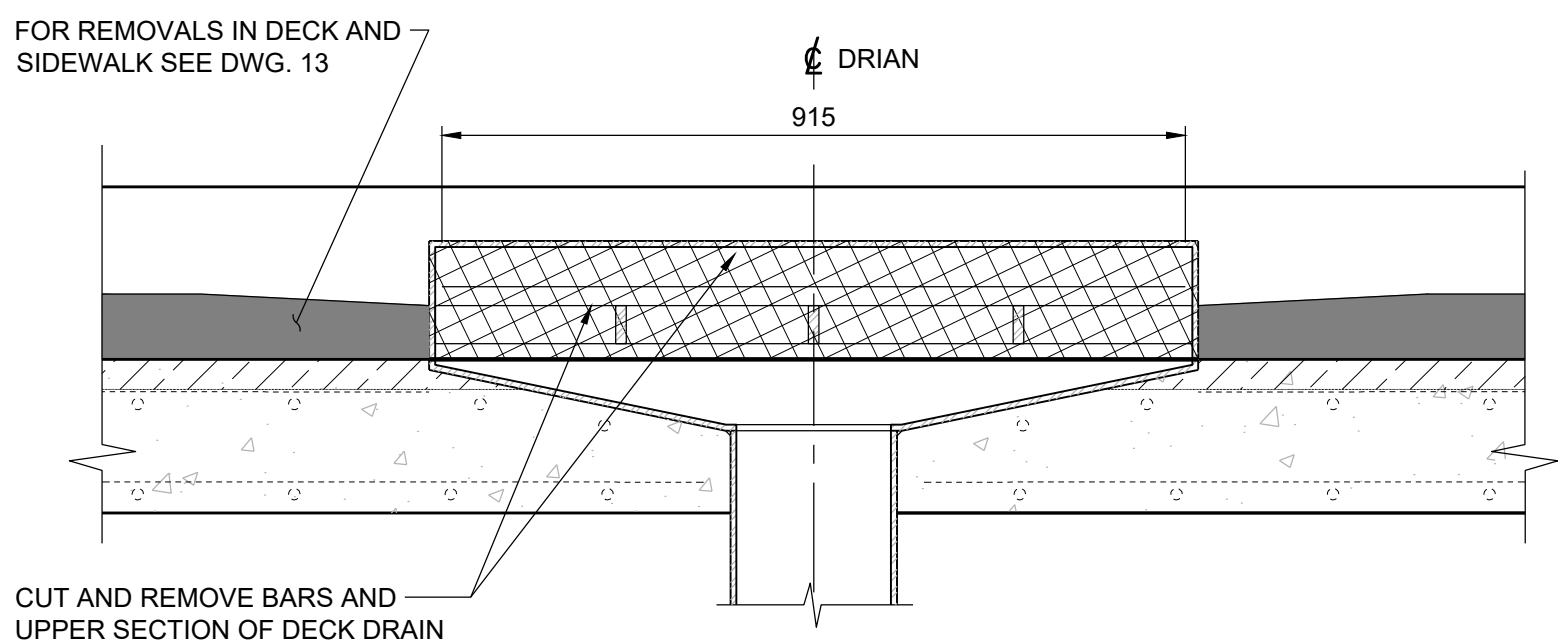
1:25

(EAST SIDE OF DECK SHOWN, WEST SIDE OF DECK SIMILAR)



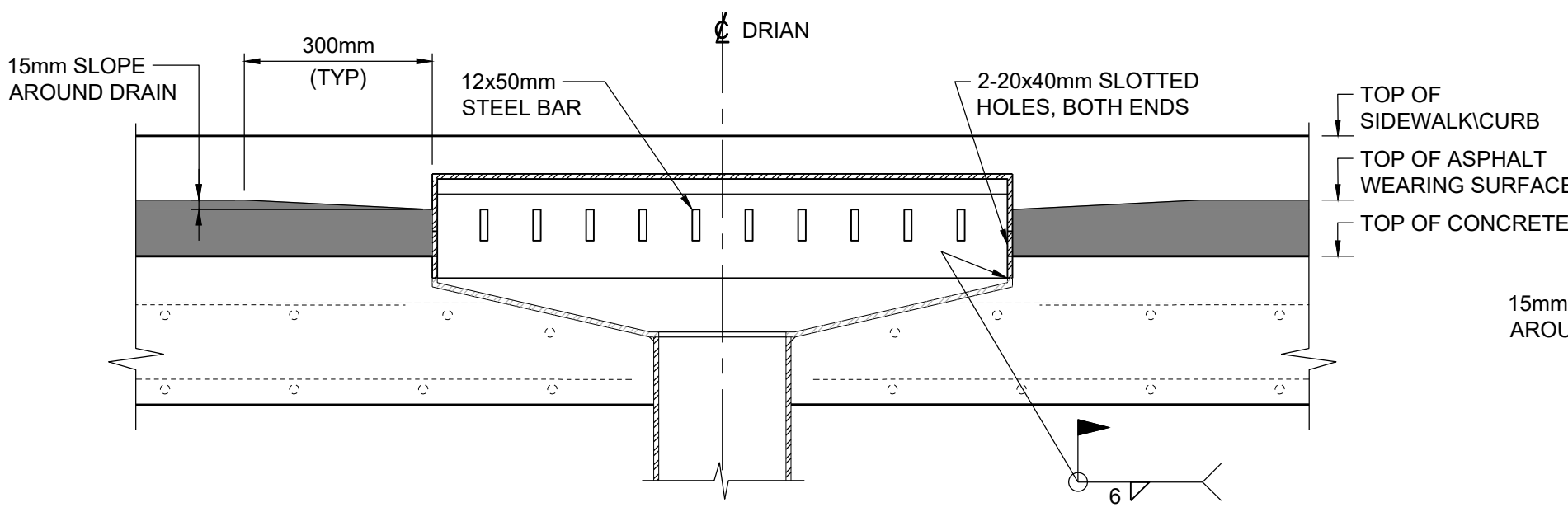
PLAN - ADDITIONAL DECK DRAIN - NEW

1:25



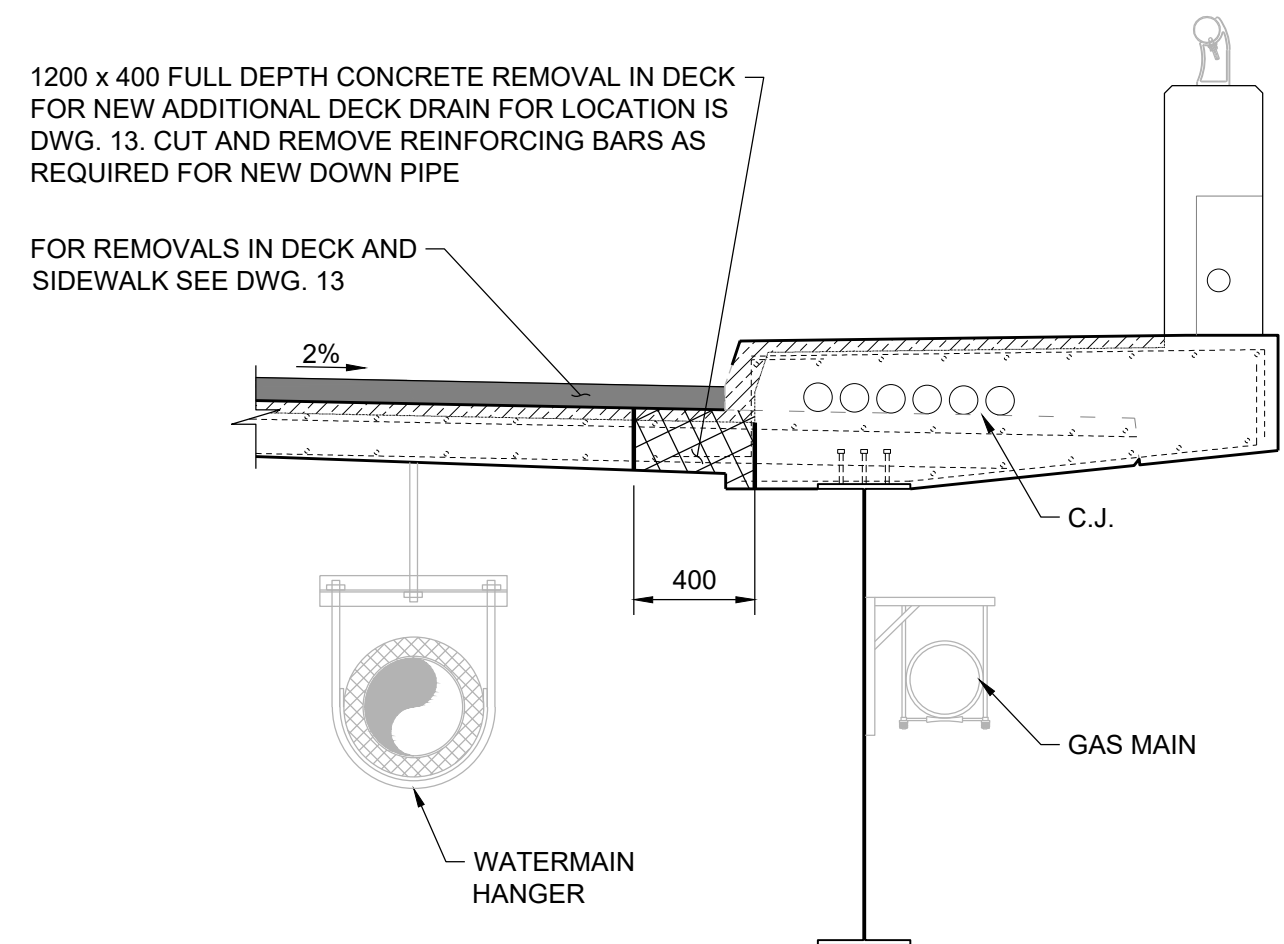
SECTION 1

1:10



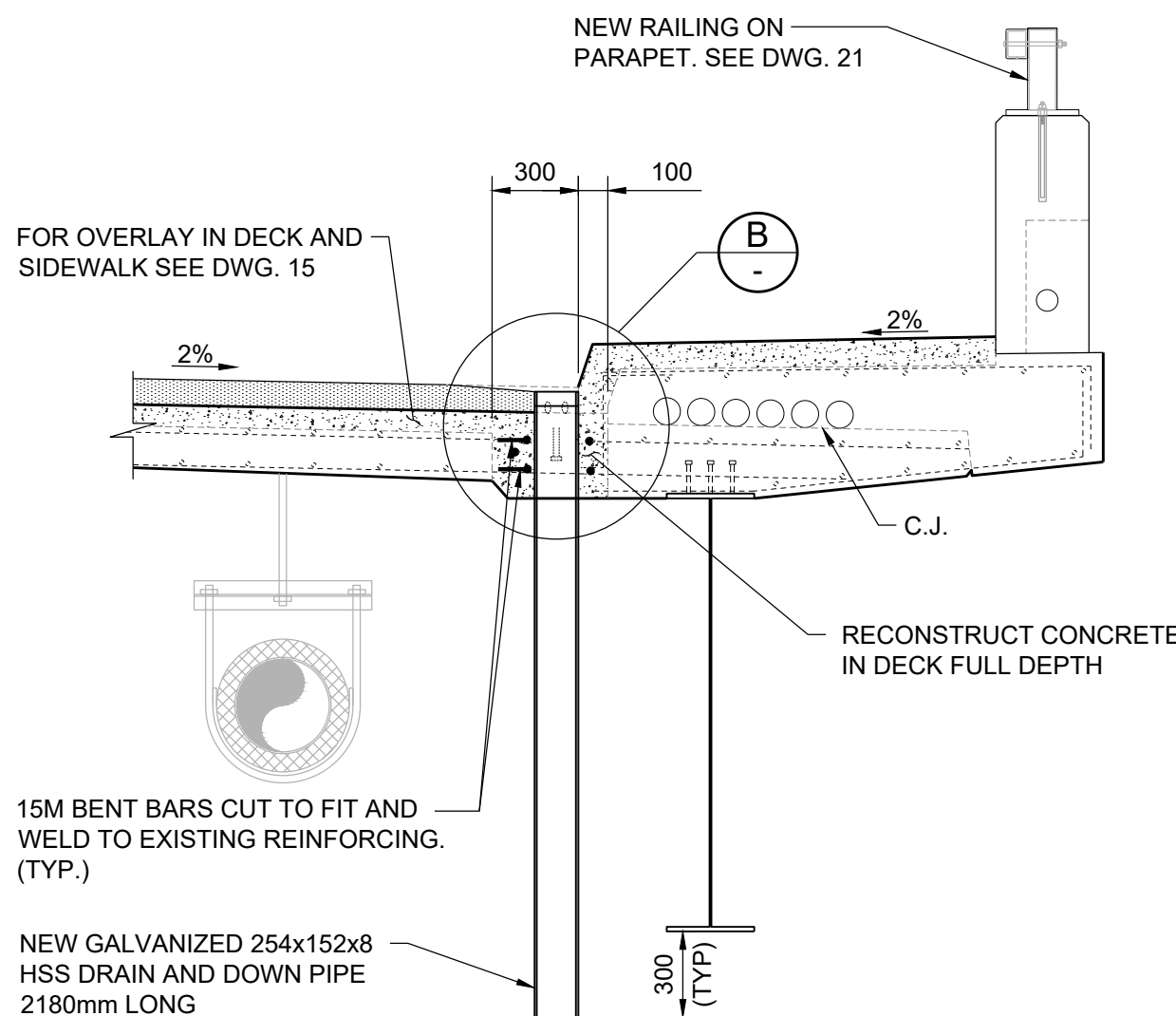
SECTION 2

1:10



SECTION - ADDITIONAL DECK DRAIN - REMOVAL

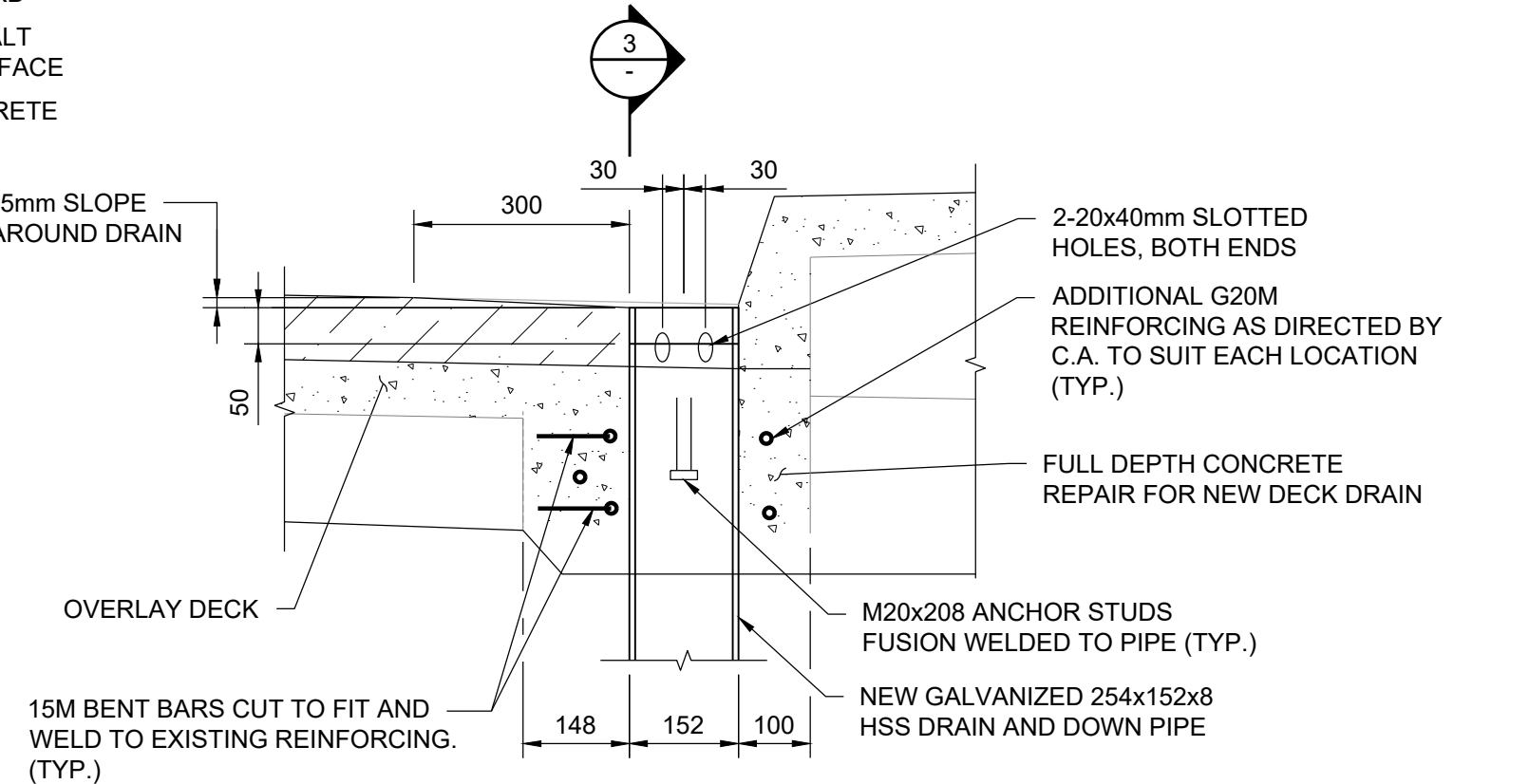
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SECTION - ADDITIONAL DECK DRAIN - NEW

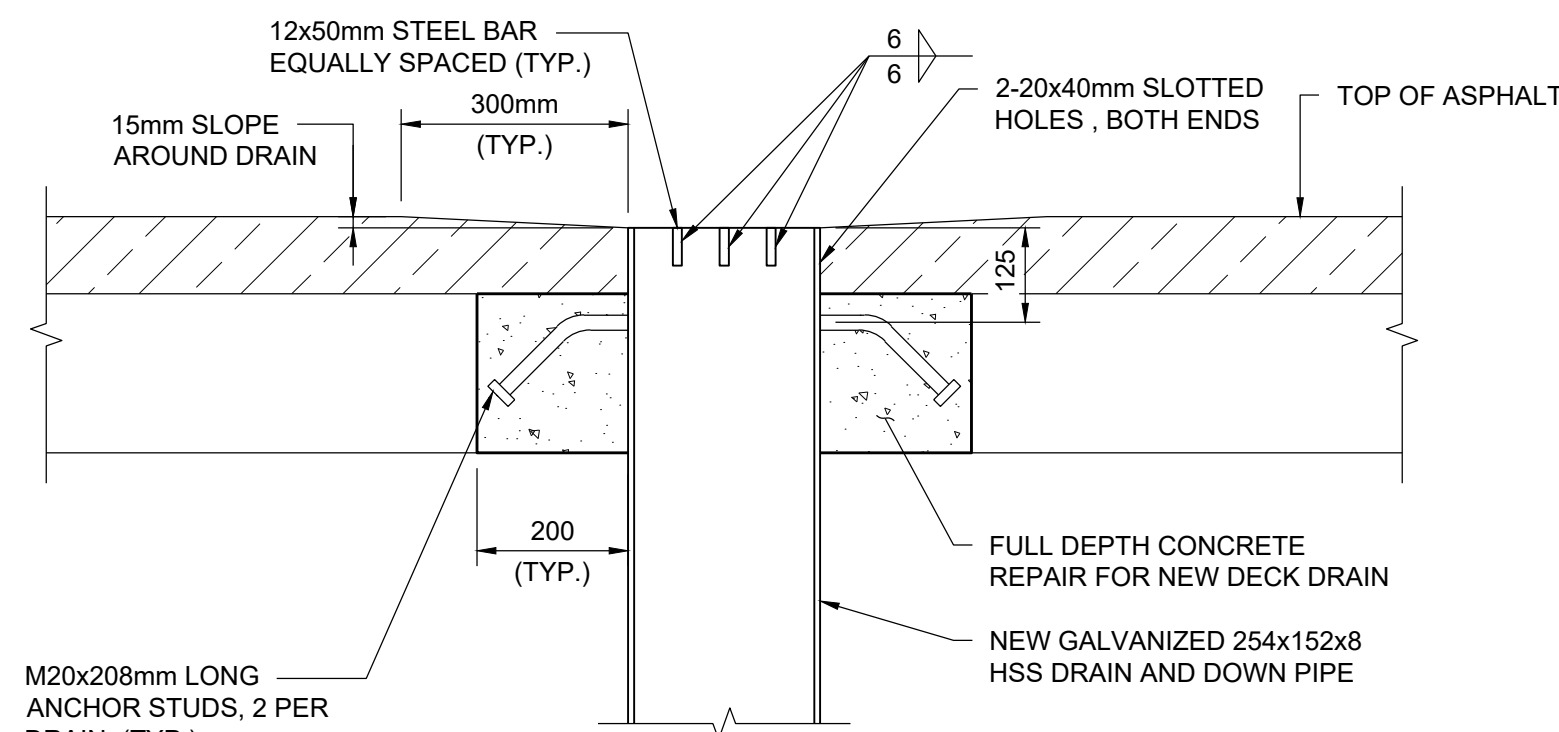
1:25

(EAST SIDE OF DECK SHOWN, WEST SIDE OF DECK SIMILAR)



DETAIL B

1:10



SECTION 3

1:10

PP	PROGRESS PRINT	04/03/22	AEM
#	REVISIONS	DATE	NAME

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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

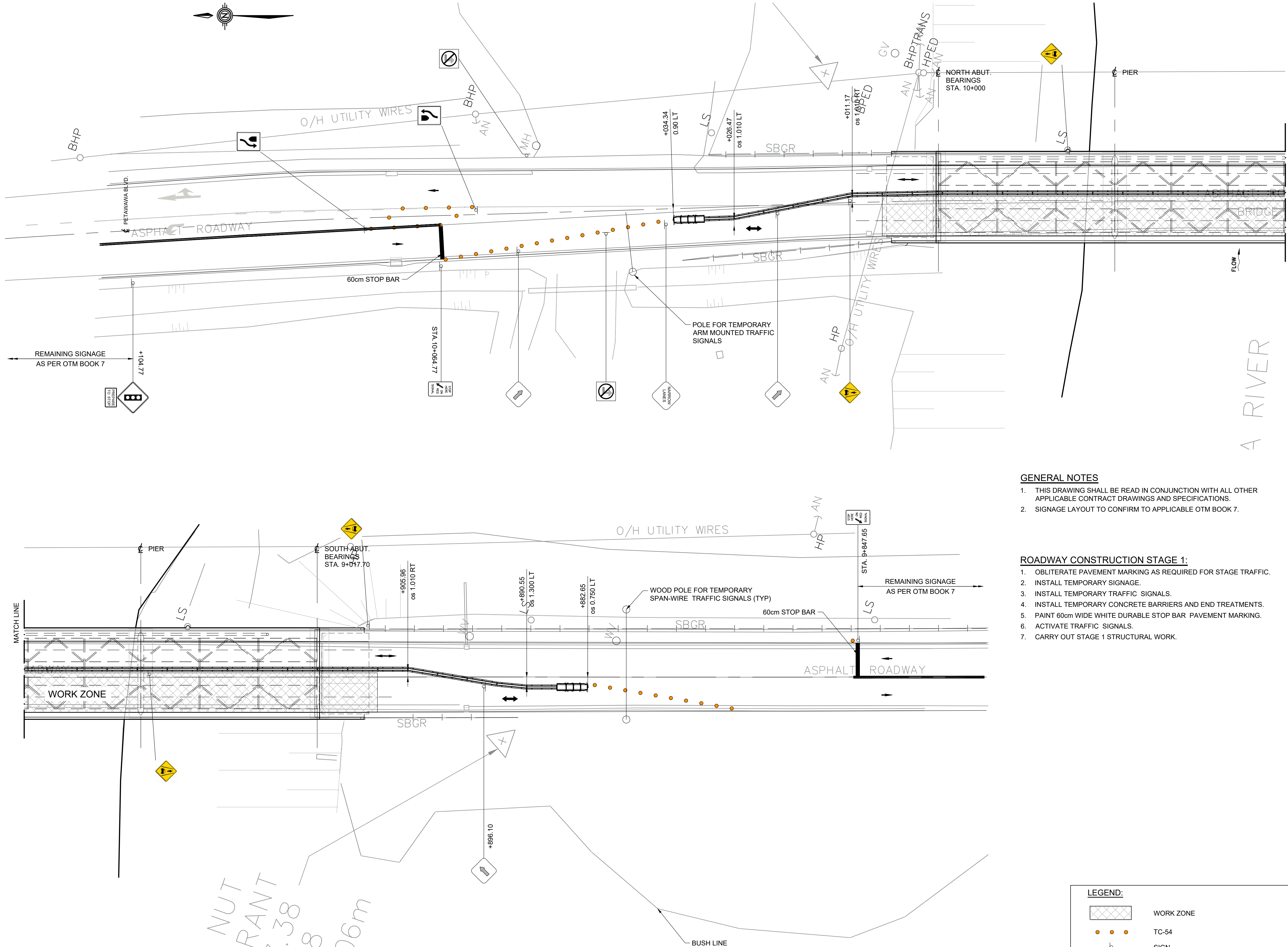
DRAWING:

DECK DRAIN

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : 26
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Rehab\SHEETS\211-13633-00_ROW_02.dwg
PLOTDATE: Mar 04, 2022 - 9:30am
DRAWN BY: M. Meunier / A. Aitton

(A1 841mm x 594mm)



GENERAL NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. SIGNAGE LAYOUT TO CONFIRM TO APPLICABLE OTM BOOK 7.

ROADWAY CONSTRUCTION STAGE 1:

1. OBLITERATE PAVEMENT MARKING AS REQUIRED FOR STAGE TRAFFIC.
2. INSTALL TEMPORARY SIGNAGE.
3. INSTALL TEMPORARY TRAFFIC SIGNALS.
4. INSTALL TEMPORARY CONCRETE BARRIERS AND END TREATMENTS.
5. PAINT 60cm WIDE WHITE DURABLE STOP BAR PAVEMENT MARKING.
6. ACTIVATE TRAFFIC SIGNALS.
7. CARRY OUT STAGE 1 STRUCTURAL WORK.

LEGEND:

- | | |
|--|-------------------------------------|
| | WORK ZONE |
| | TC-54 |
| | SIGN |
| | TEMPORARY CONCRETE BARRIER - TYPE M |
| | ENERGY ATTENUATOR - TEMPORARY |
| | TRAFFIC FLOW |
| | CONSTRUCTION ACCESS |

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PP	PROGRESS PRINT	04/03/22	AEM
2	ISSUED FOR 90% REVIEW	26/02/22	ZFW
01	ISSUED FOR REVIEW	21/01/22	Z.F.W.
#	REVISIONS	DATE	NAME

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DRAWING:

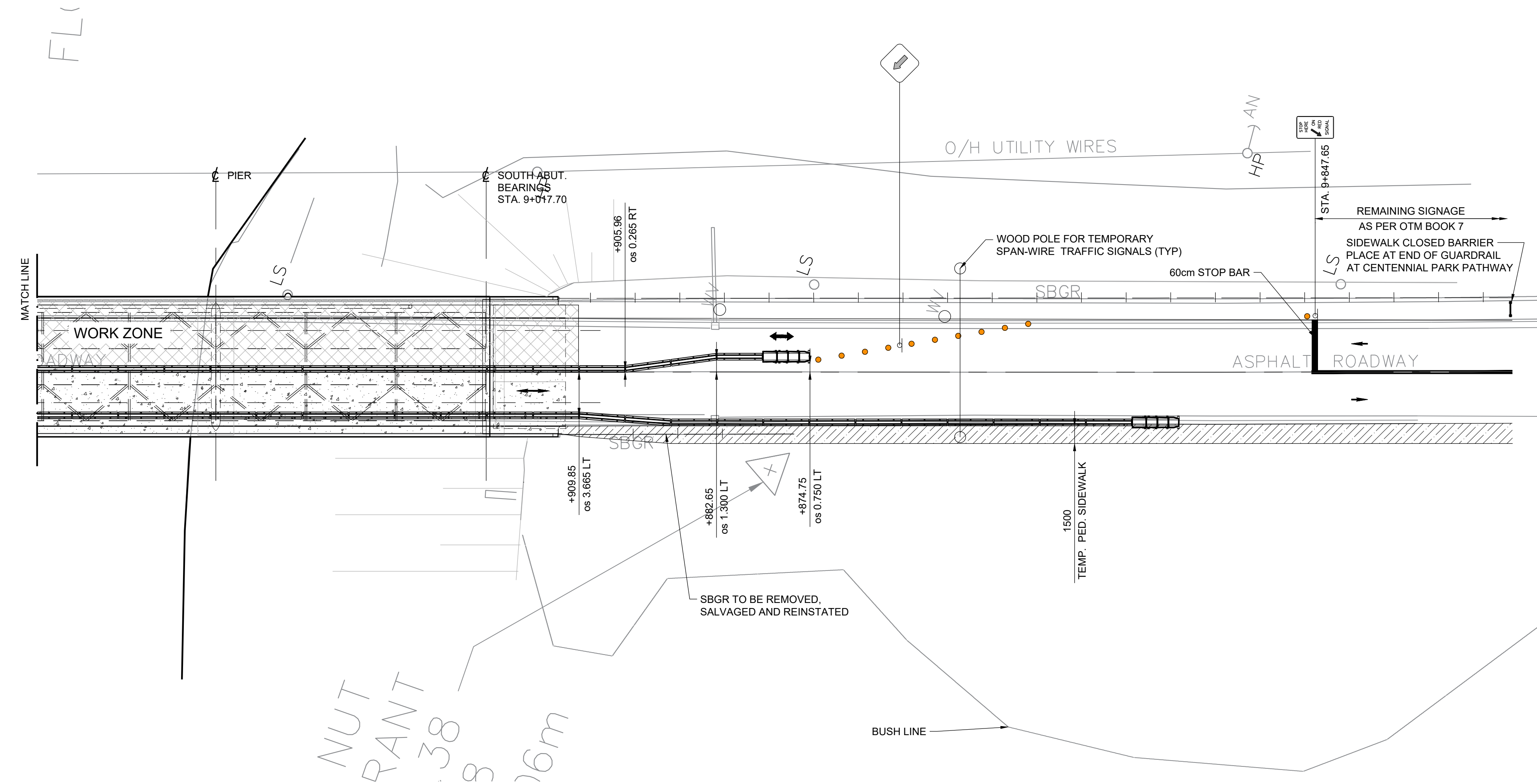
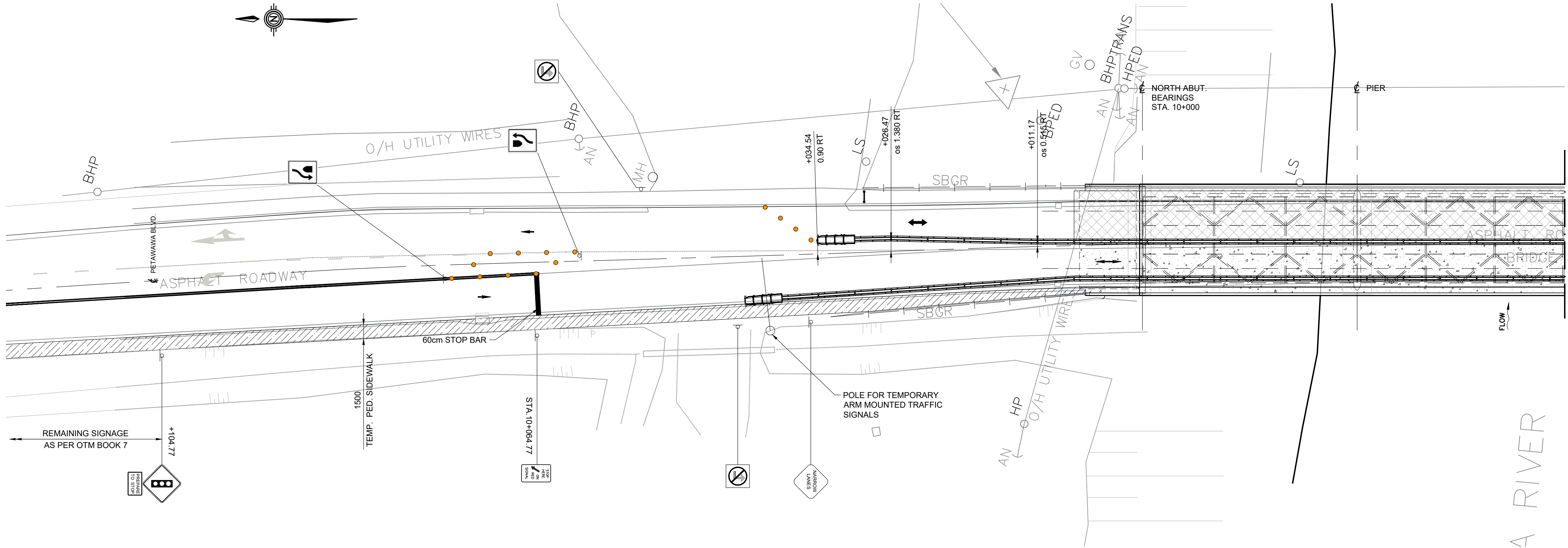
ROADWAY
CONSTRUCTION
STAGE 1

DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : R-02
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF

FILENAME: M:\211-13633-00 Petawawa River Bridge 2022 Renob\SHEETS\211-13633-00_ROW_03.dwg
PLOT DATE: Mar 04, 2022 - P 30mm
DRAWN BY: M. Meunier / A. Adam

(A1 841mm x 594mm)



NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. SIGNAGE LAYOUT TO CONFIRM TO APPLICABLE OTM BOOK 7.

ROADWAY CONSTRUCTION STAGE 2:

1. CONSTRUCT TEMPORARY PEDESTRIAN PATHWAY ON APPROACHES.
2. RECONFIGURE TEMPORARY SIGNAGE.
3. RELOCATE TEMPORARY CONCRETE BARRIERS AND END TREATMENTS.
4. INSTALL ADDITIONAL TEMPORARY CONCRETE BARRIERS AND END TREATMENTS FOR PEDESTRIAN PATHWAY ON BRIDGE.
5. CARRY OUT STAGE 2 STRUCTURAL WORK.

LEGEND:

- | | |
|--|---|
| | PAVING FOR TEMPORARY PEDESTRIAN WALKWAY |
| | COMPLETED CONSTRUCTION |
| | WORK ZONE |
| | TC-54 |
| | SIGN |
| | TEMPORARY CONCRETE BARRIER - TYPE M |
| | ENERGY ATTENUATOR - TEMPORARY |
| | TRAFFIC FLOW |
| | CONSTRUCTION ACCESS |



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PP	PROGRESS PRINT	04/03/22	AEM
2	ISSUED FOR 90% REVIEW	26/02/22	ZFW
01	ISSUED FOR REVIEW	21/01/22	Z.F.W.
#	REVISIONS	DATE	NAME

APPROVED BY :

DIRECTOR OF
PUBLIC WORKS
DATE :

REVIEWED BY : DATE :

MANAGER
CAPITAL WORKS BRANCH

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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

ROADWAY CONSTRUCTION
STAGE 2

DESIGN BY:

Z.F.W.

DRAWN BY:

A.E.M.

CHECKED BY:

APPROVED BY:

DATE DRAWN :

FEB 2022

PROJECT # :

211-13633-00

SCALE:

HOR. AS SHOWN

VERT. AS SHOWN

DRAWING # :

R-03

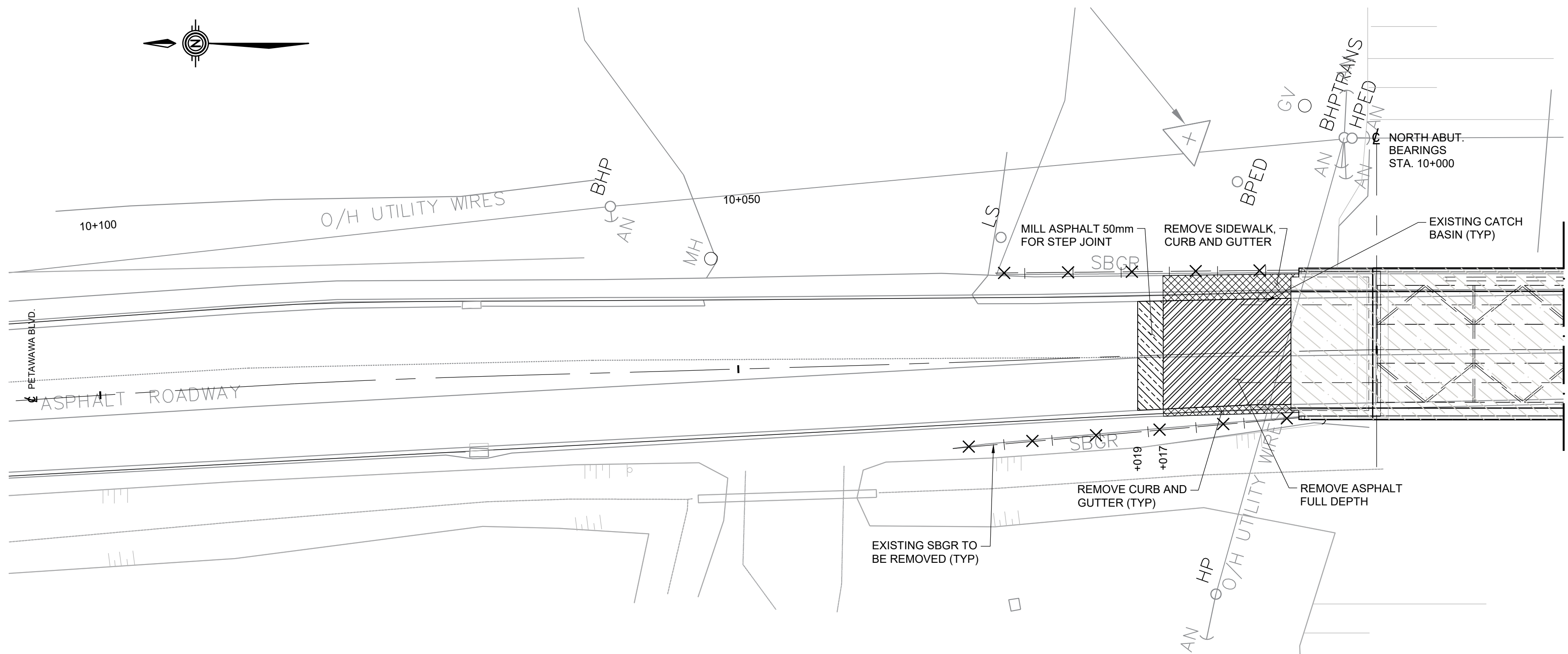
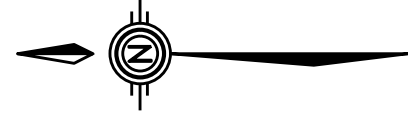
DATE PRINTED :

March 4, 2022

FILE # :

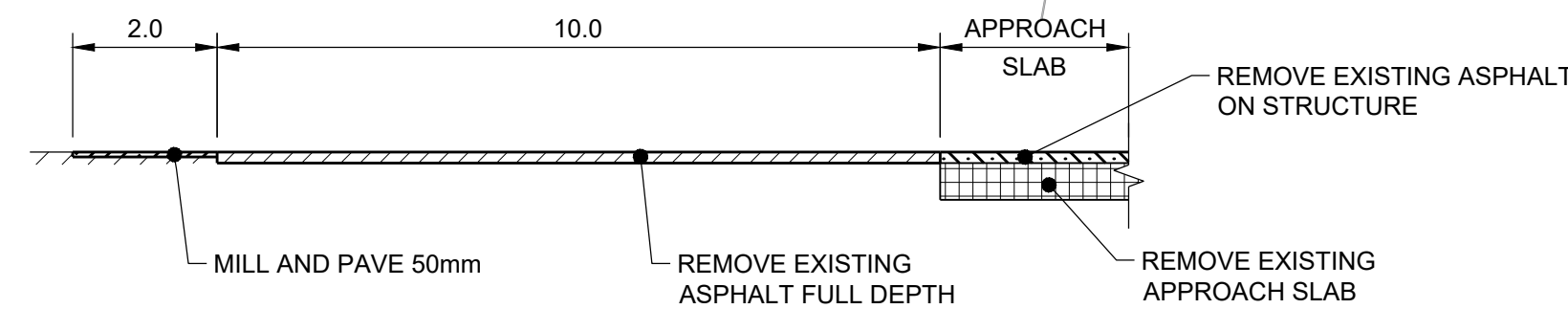
PWC-2021-56

OF



PLAN - NORTH APPROACH REMOVALS

1:250



STEP JOINT AT END OF STRUCTRE - REMOVALS

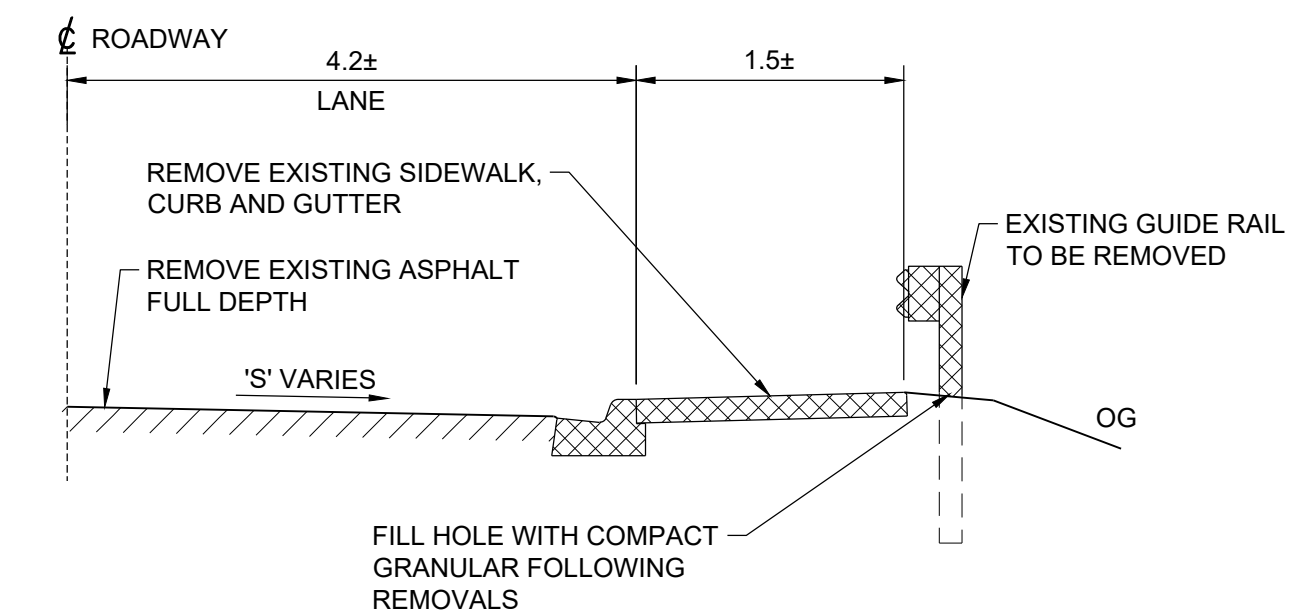
N.T.S.

GENERAL NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS AND SPECIFICATIONS.

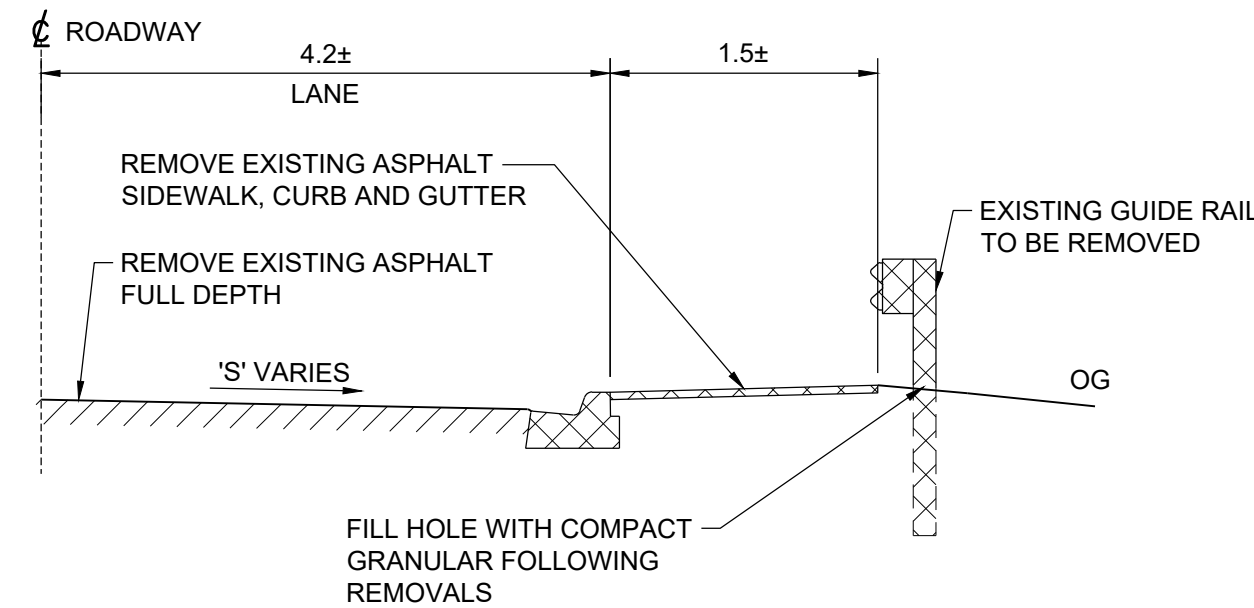
REMOVAL LEGEND:

- STRUCTURAL REMOVALS
- REMOVAL OF ASPHALT PARTIAL DEPTH (40mm)
- REMOVAL OF ASPHALT FULL DEPTH
- REMOVAL OF SIDEWALK, CURB AND GUTTER
- REMOVAL OF ASPHALT (AS REQUIRED)
- REMOVAL OF GUIDERAIL



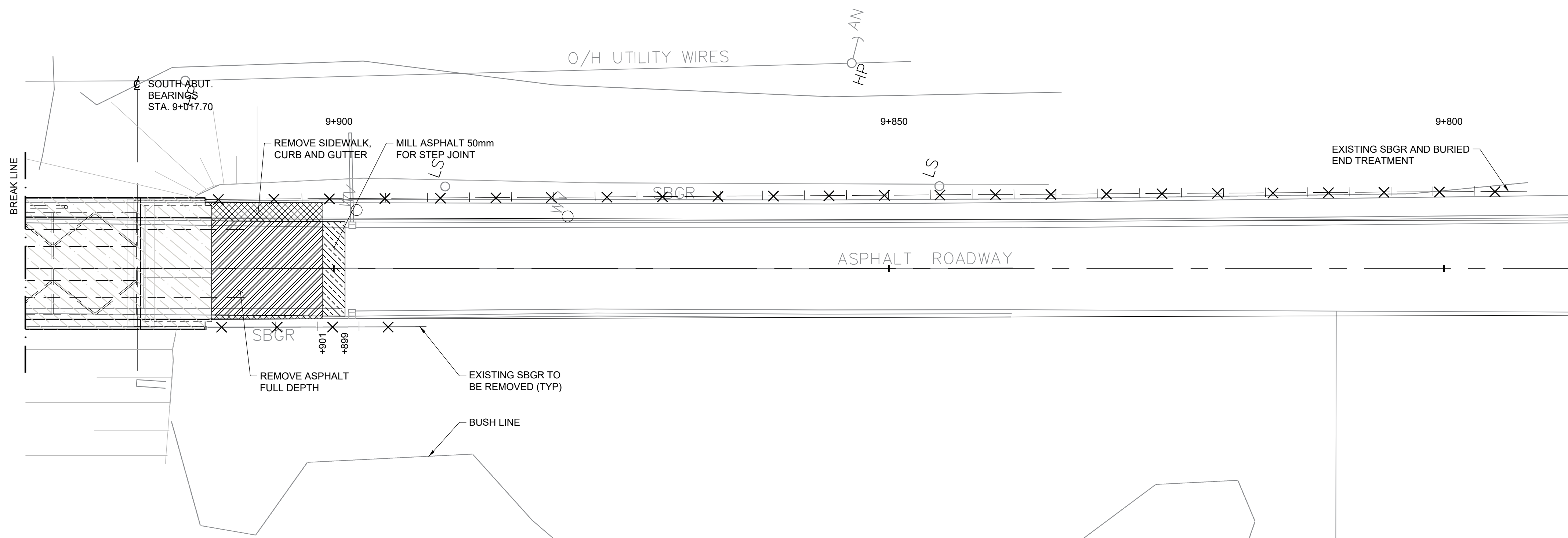
TYPICAL SOUTH SIDEWALK REMOVALS

N.T.S.



TYPICAL NORTH SIDEWALK REMOVALS

N.T.S.



PLAN - SOUTH APPROACH REMOVALS

1:250

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#	REVISIONS	DATE	NAME

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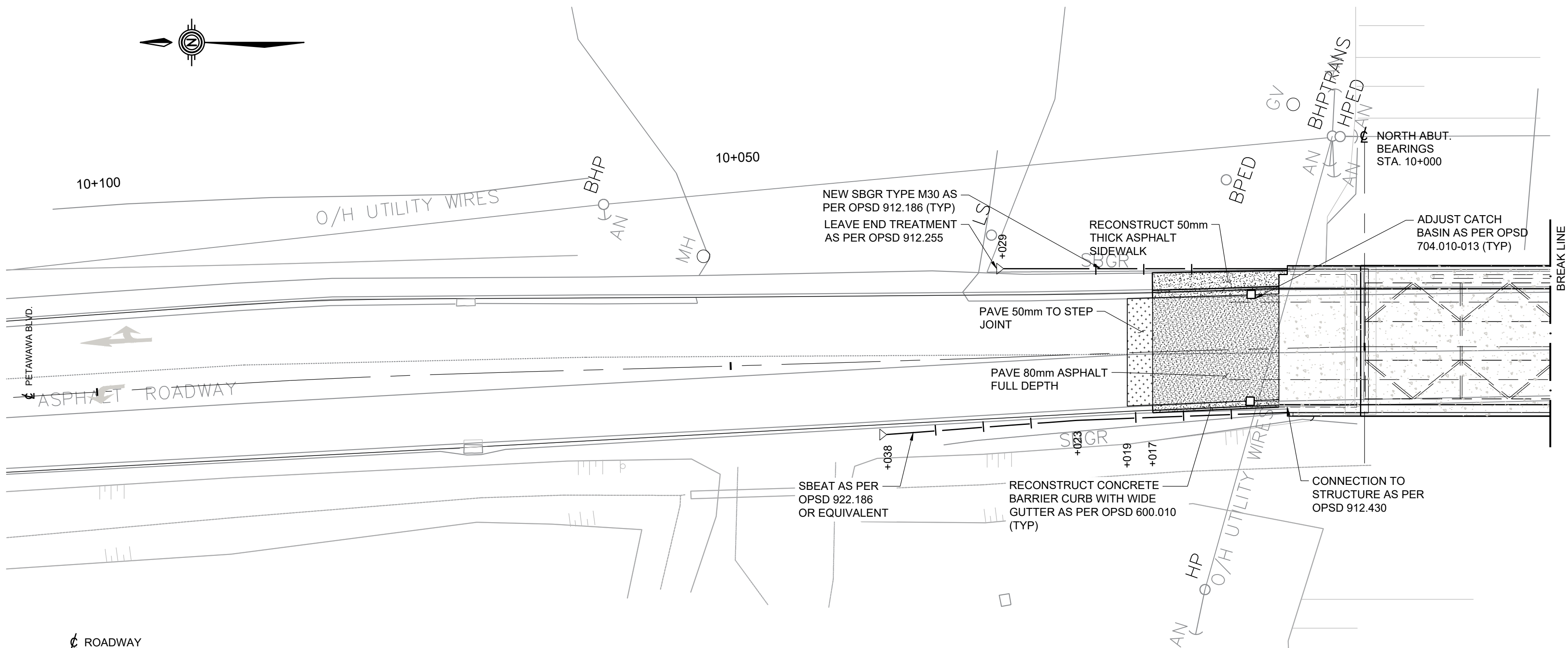
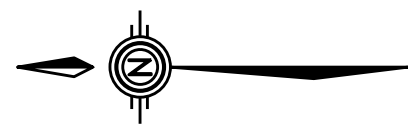
PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

ROADWAY CONSTRUCTION
- REMOVALS

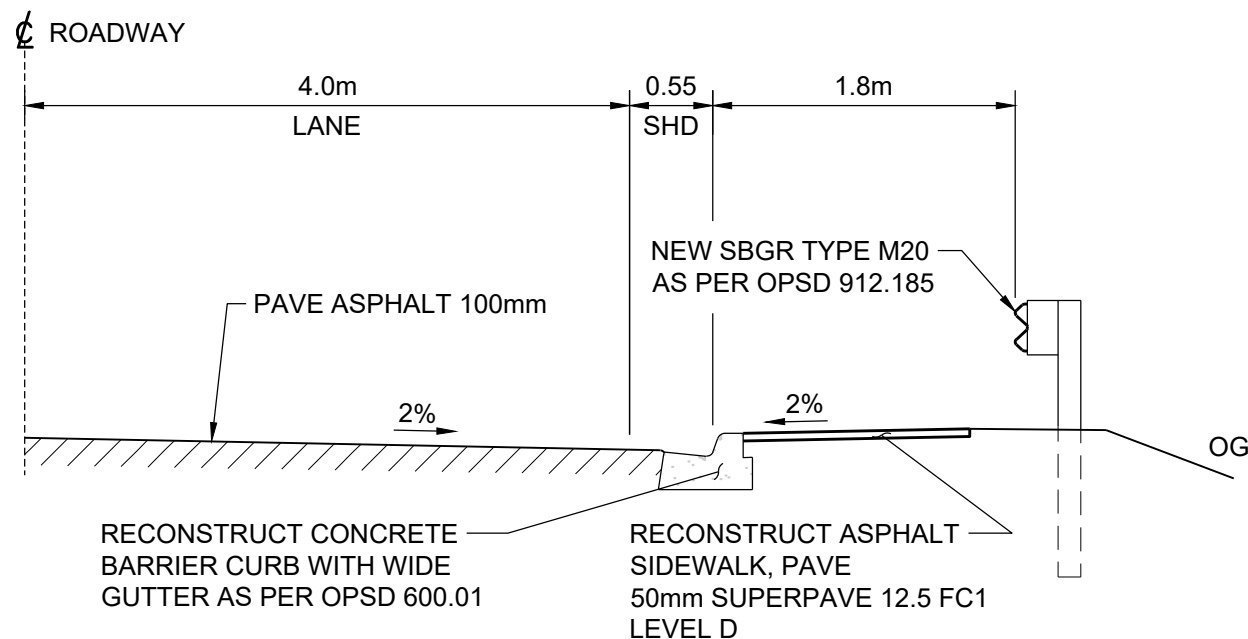
DESIGN BY: Z.F.W.	DRAWN BY: A.E.M.
CHECKED BY:	APPROVED BY:
DATE DRAWN : FEB 2022	PROJECT # : 211-13633-00
SCALE: HOR. AS SHOWN VERT. AS SHOWN	DRAWING # : R-04
DATE PRINTED : March 4, 2022	FILE # : PWC-2021-56

OF



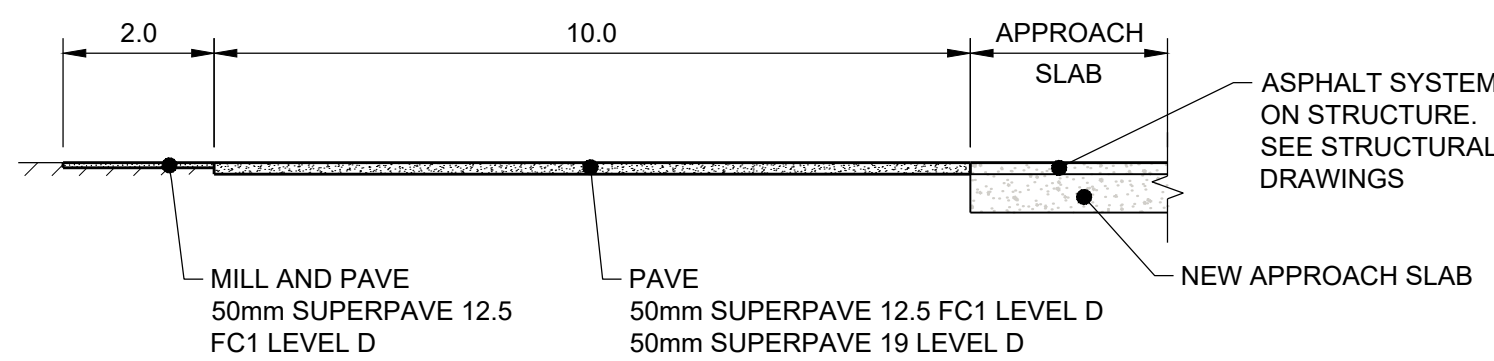
PLAN - NORTH APPROACH RECONSTRUCTION

1:250



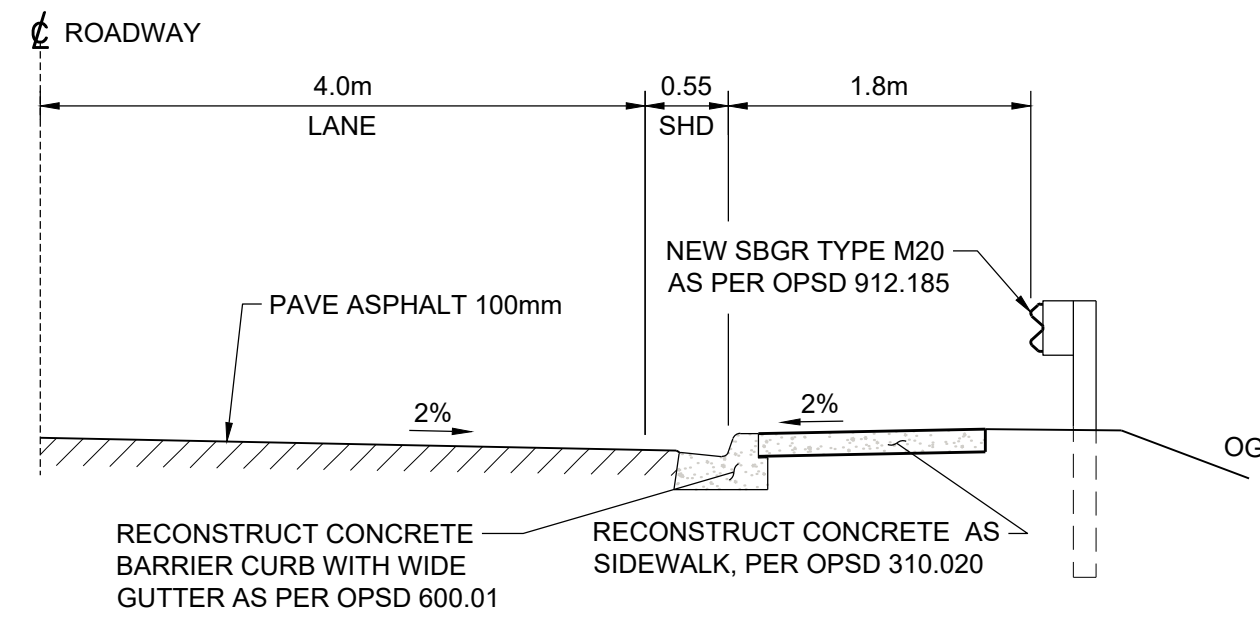
NORTH SIDEWALK RECONSTRUCTION

N.T.S.



STEP JOINT AT END OF STRUCTRE - RECONSTRUCTION

N.T.S.



SOUTH SIDEWALK RECONSTRUCTION

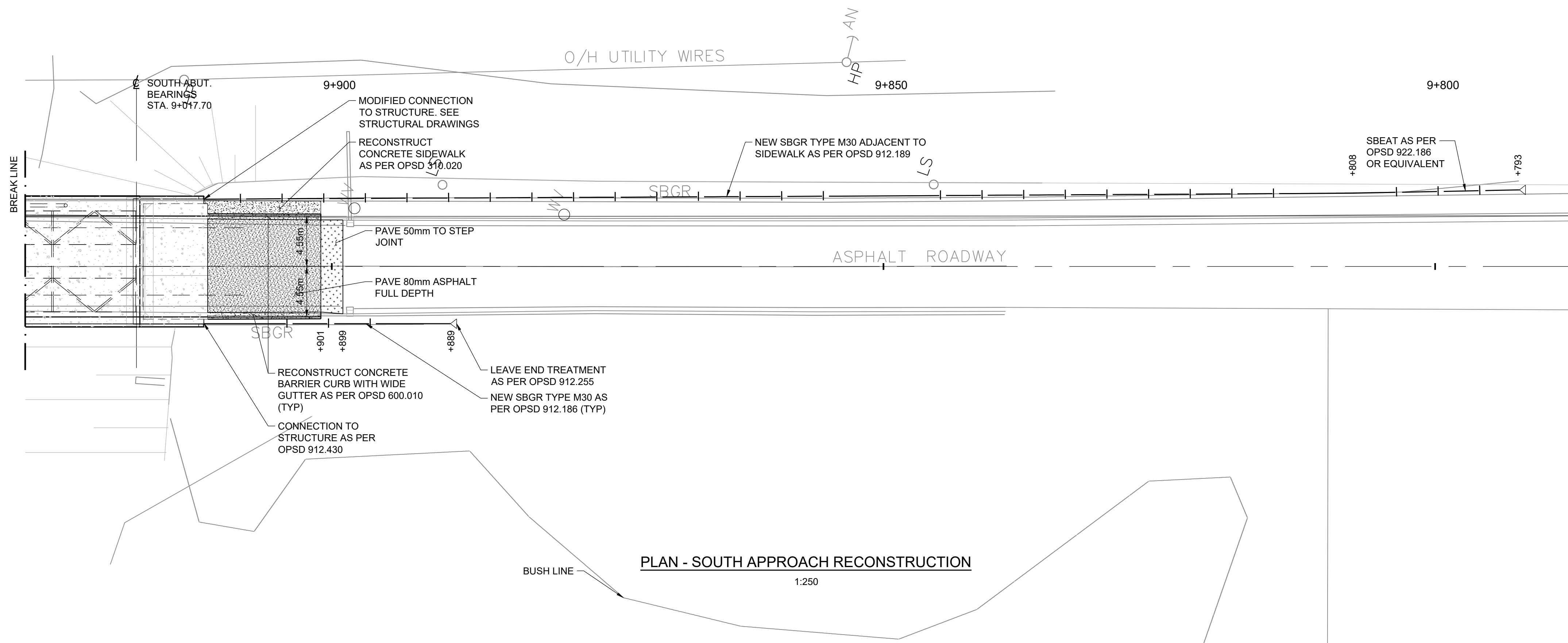
N.T.S.

GENERAL NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONTRACT DRAWINGS AND SPECIFICATIONS.
- ALL NEW ASPHALT, SIDEWALKS, AND CURB & GUTTER TO MATCH EXISTING AT LIMITS OF RECONSTRUCTION.
- STEEL BEAM GUIDE RAIL TO BE STACKED OUT ON SITE FOR CONTRACT ADMINISTRATOR APPROVAL PRIOR TO INSTALLATION.

RECONSTRUCTION LEGEND:

- STRUCTURAL REMOVALS
- NEW ASPHALT PARTIAL DEPTH (40mm)
- NEW ASPHALT FULL DEPTH
- NEW SIDEWALK, CURB AND GUTTER
- NEW STEEL BEAM GUIDERAIL



PLAN - SOUTH APPROACH RECONSTRUCTION

1:250



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PROJECT:

PETAWAWA RIVER BRIDGE
(B203)
REHABILITATION
PWC 2021-56

DRAWING:

ROADWAY CONSTRUCTION
- NEW

DESIGN BY:
Z.F.W.

DRAWN BY:
A.E.M.

CHECKED BY:

APPROVED BY:

DATE DRAWN :
FEB 2022

PROJECT # :
211-13633-00

SCALE:
HOR. AS SHOWN
VERT. AS SHOWN

DRAWING # :
R-05

DATE PRINTED :
March 4, 2022

FILE # :
PWC-2021-56

OF

