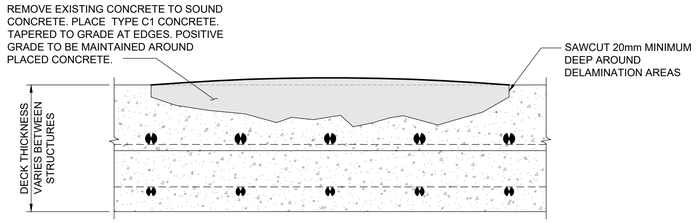
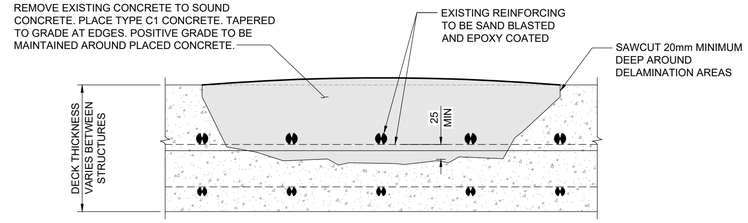
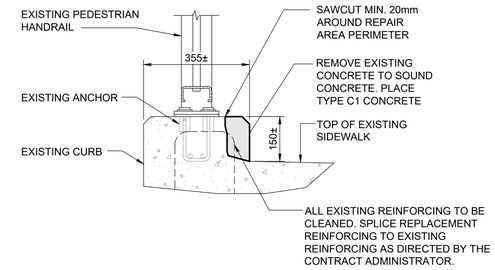


TYPE 1A



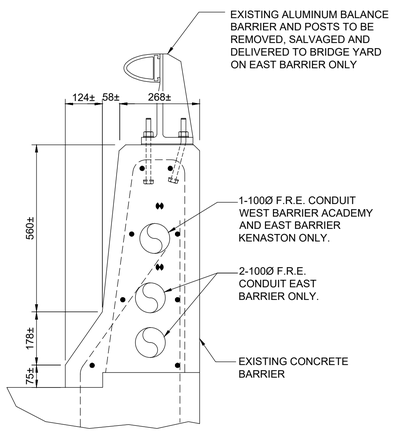
TYPE 1B

1 - - DELAMINATION REPAIR
1 : 5

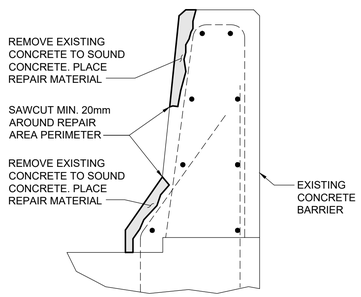


2 - - EXISTING CURB REPAIR DETAIL
1 : 10

TABLE 1: REPAIR QUANTITIES	
LOCATION	APPROX REPAIR AREA
CURB CONCRETE	1.045 m^2

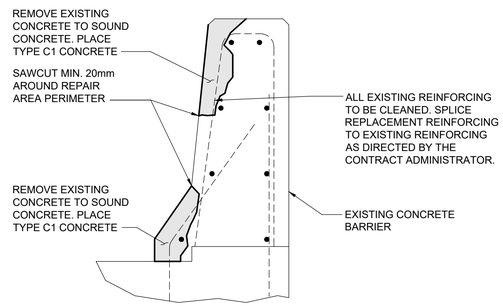


3 - - EXISTING BARRIER DETAILS
1 : 10



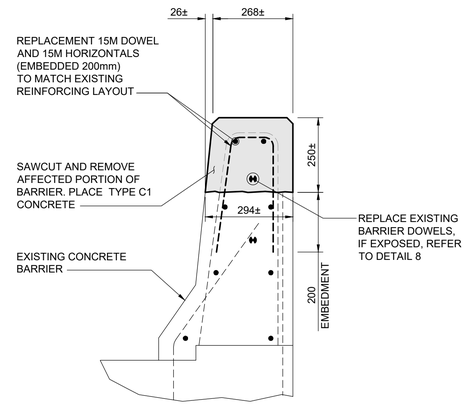
4 - - BARRIER REPAIR - TYPE 1A
1 : 10

EXISTING CONDUITS NOT SHOWN FOR CLARITY.
DO NOT DAMAGE DURING DEMOLITION.



5 - - BARRIER REPAIR - TYPE 1B
1 : 10

EXISTING CONDUITS NOT SHOWN FOR CLARITY.
DO NOT DAMAGE DURING DEMOLITION.

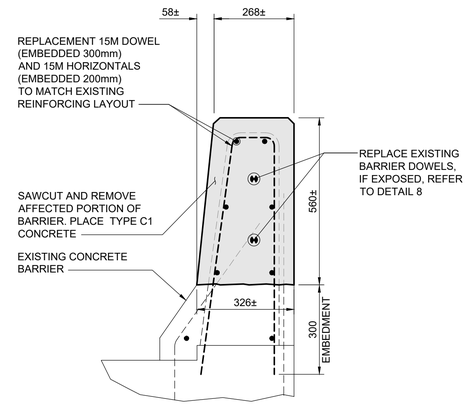


6 - - BARRIER REPAIR - TYPE 2A
1 : 10

EXISTING CONDUITS NOT SHOWN FOR CLARITY.
DO NOT DAMAGE DURING DEMOLITION.

IF REPAIR IS DONE AT A BARRIER JOINT LOCATION, THE EXISTING BARRIER EMSEAL BEJS PRECOMPRESSED FOAM JOINT WILL BE REPLACED.

IF REPAIR IS DONE AT LOCATION WITH ALUMINUM BALANCE BARRIER ANCHOR POSTS, REMOVE AND REPLACE EXISTING ANCHOR BOLTS, SEE DETAIL 10.

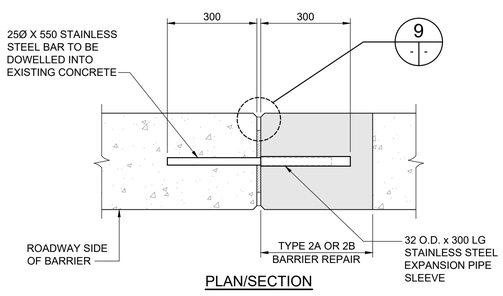


7 - - BARRIER REPAIR - TYPE 2B
1 : 10

EXISTING CONDUITS NOT SHOWN FOR CLARITY. DO NOT DAMAGE DURING DEMOLITION.

IF REPAIR IS DONE AT A BARRIER JOINT LOCATION, THE EXISTING BARRIER EMSEAL BEJS PRECOMPRESSED FOAM JOINT WILL BE REPLACED.

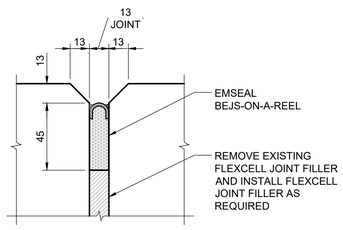
IF REPAIR IS DONE AT LOCATION WITH ALUMINUM BALANCE BARRIER ANCHOR POSTS, REMOVE AND REPLACE EXISTING ANCHOR BOLTS, SEE DETAIL 10.



PLAN/SECTION

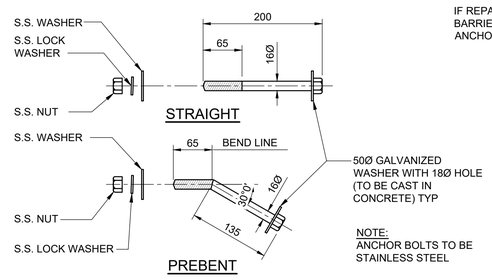
8 - - BARRIER JOINT DOWEL REPLACEMENT DETAIL
1 : 10

- ESTIMATED QUANTITY OF DOWEL REPLACEMENTS IS 21.



9 - - BARRIER JOINT REPLACEMENT DETAIL
1 : 2

- ESTIMATED QUANTITY OF BARRIER JOINT REPLACEMENTS IS 17.



10 - - RAIL POST ANCHOR BOLTS DETAIL
1 : 5

- ESTIMATED LOCATIONS OF ANCHORS TO BE REPLACED IS 15.

TYPICAL REPAIR NOTES:

1. ON WEST BARRIER, REMOVE AND REINSTALL EXISTING ALUMINUM BALANCE BARRIER AND POSTS AS NECESSARY. ENSURE MIN 3mm ALUMINUM SHIM IS PLACED.
2. DURING DEMOLITION DO NOT DAMAGE EXISTING REINFORCING.
3. IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE, ALL METAL SURFACES WHICH WILL BE IN CONTACT SHALL BE COATED WITH EPOXY ADHESIVE. RATE OF PLACEMENT OF ADHESIVE SHALL BE SUCH THAT THE ADHESIVE DOES NOT DRY OR SET BEFORE CONCRETE IS PLACED.
4. ALL EXISTING CONCRETE TO BE CLEANED OF DUST, DEBRIS AND CONTAINMENTS PRIOR TO PLACEMENT OF CONCRETE.
5. IF REPAIR AREA EXPOSES EXISTING REINFORCING, EXISTING REINFORCING TO BE CLEANED
6. CARE SHALL BE TAKEN DURING CONSOLIDATION OF CONCRETE TO ENSURE THERE ARE NO VOIDS IN THE CONCRETE. FOLLOWING CONCRETING OPERATIONS THE ENGINEER SHALL INSPECT THE REPAIR AREA BY METHOD OF SOUNDING. ALL VOIDS SHALL BE FILLED WITH AN APPROVED NON-SHRINK GROUT.
7. REPAIR AREA IS AN EXAMPLE. METHODOLOGY SHALL BE SIMILAR FOR REPAIRS AT OTHER LOCATIONS IF NECESSARY

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Tetra Tech Canada Inc.
No. 6499

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	23.03.07	E.F.S.

TETRA TECH

DESIGNED BY	R.L.	CHECKED BY	E.F.S.
DRAWN BY	E.V.	APPROVED BY	E.F.S
HOR. SCALE: / VERTICAL:	AS NOTED	ACCEPTED BY / DATE	ORIGINAL SIGNED 23.03.07
DATE	22.12.06	V. BANTHIA, M. SC, P.ENG., CIM, PMP BRIDGE PROJECTS ENGINEER	

ORIGINAL DRAWING REVISION "00" SEALED BY E.F.G. SHEHATA 23.03.07

CONSULTANT DRAWING NO.
734-2200070500-DWG-S1115

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

MINOR REHABILITATION OF ST JAMES BRIDGES
NORTHBOUND BRIDGE

CITY DRAWING NUMBER B102-22-015
SHEET 13 OF 18

TYPICAL BARRIER, SIDEWALK CURB AND DECK REPAIR DETAILS

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