

PART A - BRIDGE WORK

CITY OF WPG. DWG. NUMBER	W.E.I. DWG. NUMBER	DWG. DESCRIPTION
B173-08-001W	0600070700-DWG-S1101	COVER SHEET
B173-08-002W	0600070700-DWG-S1102	DESIGN DATA AND LIST OF DRAWINGS
B173-08-003W	0600070700-DWG-S1103	SITE PLAN - GENERAL LAYOUT
B173-08-004W	0600070700-DWG-S1104	BRIDGE - SCOPE OF WORK
B173-08-005W	0600070700-DWG-S1105	GENERAL ARRANGEMENT - PLAN, ELEVATION AND CROSS SECTION
B173-08-006W	0600070700-DWG-S1106	DECK PROFILE 1
B173-08-007W	0600070700-DWG-S1107	DECK PROFILE 2
B173-08-008W	0600070700-DWG-S1108	WEST ABUTMENT DEMOLITION
B173-08-009W	0600070700-DWG-S1109	WEST ABUTMENT - CONCRETE DETAILS 1
B173-08-010W	0600070700-DWG-S1110	WEST ABUTMENT - CONCRETE DETAILS 2
B173-08-011W	0600070700-DWG-S1111	WEST ABUTMENT - CONCRETE DETAILS 3
B173-08-012W	0600070700-DWG-S1112	WEST ABUTMENT - REINFORCING DETAILS 1
B173-08-013W	0600070700-DWG-S1113	WEST ABUTMENT - REINFORCING DETAILS 2
B173-08-014W	0600070700-DWG-S1114	EAST ABUTMENT DEMOLITION
B173-08-015W	0600070700-DWG-S1115	EAST ABUTMENT - CONCRETE DETAILS 1
B173-08-016W	0600070700-DWG-S1116	EAST ABUTMENT - CONCRETE DETAILS 2
B173-08-017W	0600070700-DWG-S1117	EAST ABUTMENT - CONCRETE DETAILS 3
B173-08-018W	0600070700-DWG-S1118	EAST ABUTMENT - REINFORCING DETAILS 1
B173-08-019W	0600070700-DWG-S1119	EAST ABUTMENT - REINFORCING DETAILS 2
B173-08-020W	0600070700-DWG-S1120	STIFFENER PLATES INSTALLATION ON ABUTMENT DIAPHRAGMS
B173-08-021W	0600070700-DWG-S1121	GIRDER BOTTOM FLANGE STRENGTHENING - PLANS AND SECTION
B173-08-022W	0600070700-DWG-S1122	GIRDER BOTTOM FLANGE STRENGTHENING - SPANS 1, 3 AND 4
B173-08-023W	0600070700-DWG-S1123	GIRDER BOTTOM FLANGE STRENGTHENING - SPAN 5
B173-08-024W	0600070700-DWG-S1124	GIRDER BOTTOM FLANGE STRENGTHENING - SECTIONS AND DETAILS
B173-08-025W	0600070700-DWG-S1125	BRIDGE DECK - CONCRETE DETAILS 1
B173-08-026W	0600070700-DWG-S1126	BRIDGE DECK - CONCRETE DETAILS 2
B173-08-027W	0600070700-DWG-S1127	BRIDGE DECK - REINFORCING DETAILS 1
B173-08-028W	0600070700-DWG-S1128	BRIDGE DECK - REINFORCING DETAILS 2
B173-08-029W	0600070700-DWG-S1129	BRIDGE DECK - REINFORCING DETAILS 3
B173-08-030W	0600070700-DWG-S1130	BRIDGE DECK - REINFORCING DETAILS 4
B173-08-031W	0600070700-DWG-S1131	LAYOUT OF CONCRETE BARRIER AND ALUMINUM TRAFFIC BARRIER
B173-08-032W	0600070700-DWG-S1132	CONCRETE BARRIER - SECTIONS AND DETAILS
B173-08-033W	0600070700-DWG-S1133	CONCRETE BARRIER & STREET LIGHT BASE - REINFORCING DETAILS
B173-08-034W	0600070700-DWG-S1134	ALUMINUM TRAFFIC BARRIER - SECTIONS AND DETAILS
B173-08-035W	0600070700-DWG-S1135	EXPANSION JOINTS - DETAILS 1
B173-08-036W	0600070700-DWG-S1136	EXPANSION JOINTS - DETAILS 2
B173-08-037W	0600070700-DWG-S1137	EAST AND WEST APPROACH SLABS - CONCRETE DETAILS
B173-08-038W	0600070700-DWG-S1138	EAST AND WEST APPROACH SLABS - REINFORCING DETAILS
B173-08-039W	0600070700-DWG-S1139	SLOPE PAVING MODIFICATIONS - PLANS AND SECTIONS
B173-08-040W	0600070700-DWG-S1140	REINFORCING SCHEDULE 1 - (MMFX 2)
B173-08-041W	0600070700-DWG-S1141	REINFORCING SCHEDULE 2 - (BLACK BARS)
B173-08-042W	0600070700-DWG-S1142	REINFORCING SCHEDULE 3 - (BLACK BARS)
B173-08-043W	0600070700-DWG-S1143	BRIDGE AND PEDESTRIAN UNDERPASS LIGHTING AND DETAILS

PART B - ROADWORK

CITY OF WPG. DWG. NUMBER	W.E.I. DWG. NUMBER	DWG. DESCRIPTION
B173-08-044W	0600070700-DWG-C1015	LEGENDS AND ABBREVIATIONS
B173-08-045W	0600070700-DWG-C1019	TRAFFIC CONTROL PLAN, WESTBOUND DETOURS AND TRAFFIC MOVEMENTS
B173-08-046W	0600070700-DWG-C1010	PAVEMENT RECONSTRUCTION & WIDENING, BISHOP GRANDIN BOULEVARD WESTBOUND EXIT LANES TO PEMBINA HIGHWAY
B173-08-047W	0600070700-DWG-C1011	PAVEMENT RECONSTRUCTION & WIDENING, BISHOP GRANDIN BOULEVARD WESTBOUND LANES TO WAVERLEY STREET WEST OF RED RIVER
B173-08-048W	0600070700-DWG-C1012	PAVEMENT RECONSTRUCTION & WIDENING, BISHOP GRANDIN BOULEVARD WESTBOUND BRIDGE PROFILE & PROPOSED LANE CONFIGURATION
B173-08-049W	0600070700-DWG-C1013	PAVEMENT RECONSTRUCTION & WIDENING, BISHOP GRANDIN BOULEVARD WESTBOUND LANES FROM RED RIVER TO 80m EAST OF RIVER RD.
B173-08-050W	0600070700-DWG-C1014	PAVEMENT CONSTRUCTION, BISHOP GRANDIN BOULEVARD WESTBOUND NORTH LANES FROM 80m E OF RIVER RD. TO 400m E OF RIVER RD.
B173-08-051W	0600070700-DWG-C1017	NEW PAVEMENT CONSTRUCTION, BISHOP GRANDIN BOULEVARD WESTBOUND NORTH LANE FROM 400m E OF RIVER RD. TO 680m E
B173-08-054W	0600070700-DWG-C1016	DETAILS

PART C - DETOUR WORK

CITY OF WPG. DWG. NUMBER	W.E.I. DWG. NUMBER	DWG. DESCRIPTION
B173-08-052W	0600070700-DWG-C1008	EASTBOUND DETOUR LANES FOR 2009 OPERATIONS, THOUGH LANES FROM WAVERLEY STREET, CONSTRUCTION SEPT 1, 2008 TO NOV 1, 2008
B173-08-053W	0600070700-DWG-C1018	EASTBOUND DETOUR LANES FOR 2009 OPERATIONS, THOUGH LANES EAST OF RED RIVER, CONSTRUCTION SEPT 1, 2008 TO NOV 1, 2008

DESIGN DATA:

DESIGN SPECIFICATIONS:
LIVE LOADING:

CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA-S6-06
CHBDC CL-625 TRUCK AND LANE LOAD

CONCRETE:



TYPE 1 FOR SUBSTRUCTURE AND SLOPE PAVING CSA A23.1 CLASS C-1 $f'_c = 35 \text{ MPa} @ 28 \text{ DAYS}$
TYPE 2 FOR DECK, BARRIERS, APPROACH SLABS AND ROADWAY EXPANSION SLAB CSA A23.1 CLASS C-XL $f'_c = 50 \text{ MPa} @ 56 \text{ DAYS}$ - WITH SYNTHETIC FIBRES
TYPE 3 FOR HIGH PERFORMANCE CONCRETE (HPC) OVERLAY CSA A23.1 CLASS C-XL $f'_c = 50 \text{ MPa} @ 56 \text{ DAYS}$ - WITH CRUSHED GRANITE AGGREGATE AND SYNTHETIC FIBRES
ALLOW THE HPC OVERLAY (TYPE 3) TO ACHIEVE $f'_c = 30 \text{ MPa}$ PRIOR TO OPENING THE BRIDGE FOR NORMAL TRAFFIC.
CONCRETE COVER : UNLESS OTHERWISE NOTED, CONCRETE COVER SHALL BE 50mm

REINFORCING STEEL:

DECK SLAB, BARRIER AND APPROACH SLAB - MICRO COMPOSITE REINFORCING STEEL (MMFX-2) TO ASTM A615 AND AASHTO M31, GRADE 75 (520 MPa)
ALL OTHER AREAS - CSA G30.18 -M92, GRADE 400W

STRUCTURAL STEEL:

CSA G40.21-M92 GRADE 350WT CATEGORY 3 UNLESS OTHERWISE NOTED

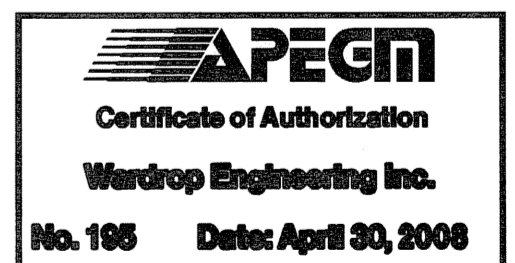
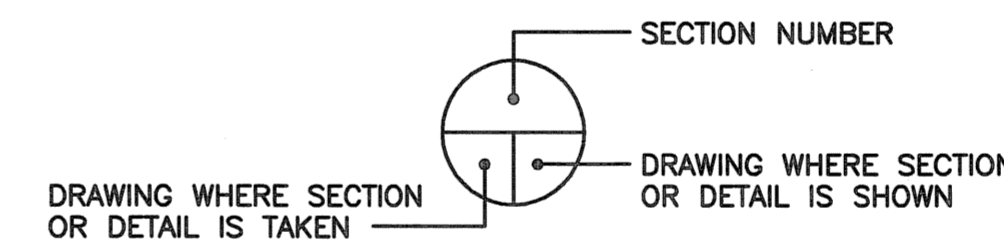
ROADWAY GEOMETRY

CONFORM TO REQUIREMENTS OF THE LATEST CITY OF WINNIPEG STREET AND TRANSPORTATION STANDARD MANUAL, TRANSPORTATION ASSOCIATION OF CANADA (TAC) OR AASHTO

REFERENCE DRAWINGS:

AS BUILT DRAWINGS - ROUTE 165 FORT GARRY-ST. VITAL CORRIDOR
BRIDGE ALTERNATIVE A
STEEL BOX GIRDER P.D. No. 77-23A
(DRAWING No. B-5092-001 THRU B-5092-234)

SECTIONS AND DETAILS:



B.M. ELEV.	F.B.	WARDROP Engineering Inc.		ORIGINAL DRAWING REVISION "00" SEALED BY E.F. SHEHATA 08.02.05	THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT TRANSPORTATION ENGINEERING DIVISION FORT GARRY TWIN BRIDGES WESTBOUND STRUCTURE REHABILITATION AND ASSOCIATED ROADWORKS DESIGN DATA AND DRAWING LIST	CITY DRAWING NUMBER B173-08-002W SHEET 2 OF 54
		DESIGNED BY E.F.S.	CHECKED BY [Signature]	CONSULTANT DRAWING NO. 0600070700-DWG-S1102-00		
		DRAWN BY G.I.	APPROVED BY [Signature]			
		HOR. SCALE: AS NOTED	ACCEPTED BY [Signature]			
01 ISSUED FOR ADDENDUM #2	08.03.05					
00 ISSUED FOR TENDER	08.02.05					
NO. REVISIONS	DATE	BY	DATE	08.02.05		