

THE CITY OF WINNIPEG

PUBLIC WORKS DEPARTMENT TRANSPORTATION ENGINEERING DIVISION

ACCESS BRIDGE

TO 330 AND 334 BONNER AVENUE

BID OPPORTUNITY No. 867-2007

DESIGN DATA

DESIGN SPECIFICATION - CAN/CSA-S6-06 LIVE LOAD - CL625 - DESIGN LANE LOAD FUTURE ASPHALT - 50mm

REINFORCING STEEL - CSA G30.18 - M92 (R2002) GRADE 400W

CONCRETE STRENGTH AT 28 DAYS - 35 MPa

GENERAL NOTES

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS.

EXISTING DIMENSIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL SITE VERIFY ALL DIMENSIONS.

FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION PERFORMED BY AMEC EARTH & ENVIROMENTAL AND REPORT DATED SEPT. 2007 PREPARED BY AMEC EARTH & ENVIROMENTAL ENSURE THAT THE REQUIREMENTS OUTLINED IN THESE REPORTS ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK, FOR TEST HOLE LOCATION REFER TO THE GEOTECHNICAL REPORTS OR BRIDGE SITE PLAN DRAWINGS B176-08-03, DRAWING 3 OF 9.

PROTECT EXCAVATIONS FROM RAIN, SNOW, FREEZING TEMPERATURES AND STANDING WATER.

REMOVE GROUND WATER ENTERING EXCAVATIONS BY AN APPROVED DEWATERING METHOD.

MAXIMUM ALLOWABLE LOAD DRIVEN TO REFUSAL IS 1145kN.

CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1-O4.

SEE SPECIFICATION FOR CONCRETE MIX DESIGN REQUIREMENTS.

DO NOT USE CALCIUM CHLORIDE IN CONCRETE MIX.

ALL EXPOSED SURFACES OF THE ABUTMENT AND SUPERSTRUCTURE SHALL RECEIVE ONE COAT OF PRIMER AND TWO COATS OF PAINT, EXCLUDING DECK SOFFIT AND TOP OF DECK.

PERMEABLE FORMWORK LINER SHALL BE USED ON ALL EXPOSED FORMED SURFACES, EXCEPT DECK SOFFIT.

DRAWING INDEX

CITY DWG. No.	CONSULTANT DRW. No.	SHEET No.	SHEET TITLE
B176-08-01 B176-08-02 B176-08-03 B176-08-04 B176-08-05 B176-08-06 B176-08-07	GI001-682 SB701-682 SB702-682 SB703-682 SB704-682 SB705-682 SB706-682 SB706-682	1 of 9 2 of 9 3 of 9 4 of 9 5 of 9 6 of 9 7 of 9	COVER SHEET & DRAWING INDEX TEMPORARY SITE ACCESS PLAN BRIDGE SITE PLAN GENERAL ARRANGEMENT & FOUNDATION LAYOL CONCRETE PLAN, SECTIONS & DETAILS CONCRETE SECTIONS & DETAILS REINFORCING PLAN, SECTIONS & DETAILS
B176-08-08 B176-08-09	SB707-682 SJ701-682	8 of 9 9 of 9	REINFORCING SECTIONS, DETAILS & SCHEDULE ALUMINUM BRIDGE GUARDRAIL DETAILS

REINFORCING

CONCRETE CLEAR COVER TO REINFORCEMENT 75mm UNLESS NOTED OTHERWISE.

SUPPLY SUPPORT BARS TO SUPPORT MAIN REINFORCEMENT AS REQUIRED

LAP SPLICE SCHEDULE

BAR SIZE	EMBEDMENT	TENSI(LAP
15M	400	550
20M	500	700
25M	800	110

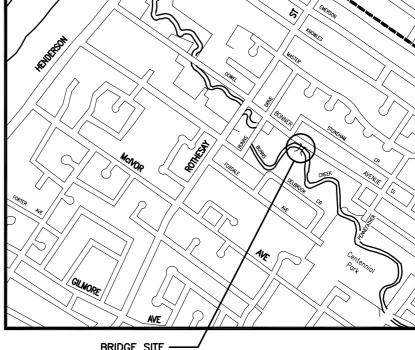
LAP SPLICE SCHEDULE IS FOR CLASS B SPLICE UNLESS NOTED OTHERWISE AND APPLIES TO REINFORCING SPLICES NOT OTHERWISE DETAILED.

LOCATE REINFORCING SPLICES NOT INDICATED ON THE DRAWINGS AT POINTS OF MINIMUM STRESS. LOCATIONS OF SPLICES TO BE APPROVED BY THE ENGINEER.

BEFORE PLACING REBAR, ENSURE IT IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATING WHICH WOULD REDUCE THE BOND TO CONCRETE.

WELDING SHALL CONFORM TO CSA-W59. ALL WORK IS TO BE PERFORMED BY A FIRM CERTIFIED, AND POSSESSING VALID CERTIFICATION WITHIN TWO YEARS FROM THE START OF THE WORK, BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF DIVISION 2 (MINIMUM) OF CSA-W47.1.

THE WELDING ELECTRODE SHALL BE E480XX



330 AND 334 BONNER AVENUE WINNIPEG, MANITOBA

LOCATION PREFIX

B - BRIDGE





C DRAWING WHERE SECTION

METRIC WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LIST OF ABBREVIATIONS

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@	AT
ALT.	ALTERNATING
ALUM.	AI UMINUM
APPROY	ALTERNATING ALUMINUM APPROXIMATE
AVE	AV/ENLIE
AVE.	AVENUE OF OUR
B.C.	AVENUE BEGINNING OF CURB BOTTOM
BOI.	BOLLOW
B/W	BOTH WAYS
C.I.P.	CAST-IN-PLACE CONTRUCTION JOINT
CI	CONTRUCTION JOINT
Ę.	CENTRE LINE
4	CLIVING CINE
C/W	CENTRE LINE COMPLETE WITH CONCRETE
CONT.	CONTINUOUS
CL.	CLEAR
CRES.	CLEAR CRESCENT DOUBLE
DBI.	DOUBLE
DIΔ	DIAMETER
DTI	DETAIL
DIL.	DIAMETER DETAIL DRAWING
DWG.	END OF OURD
E.C.	END OF CURB EACH END
E.E.	EACH END
E.F. E.W.	EACH FACE EACH WAY
E.W.	EACH WAY
EQ.	EQUAL
EQ. SP.	EQUAL SPACE
EL.	ELEVATION
	EXISTING
	GALVANIZING
	GRANULAR
	LODIZONITAL

ON CENTRE
OUTSIDE TO OUTSIDE
PLATE
QUANTITY SHEET SUBSTRUCTURE UNIT THICK TYPICAL TOP OF UNLESS NOTED OTHERWISE UNDERSIDE VERTICAL WATERMAIN WORKING POINT

APEGIN Certificate of Authorization Stantec Consulting Ltd. No. 1301 Expiry: April 30, 2006

RELEASED FOR CONSTRUCTION BY: BILL EBENSPANGER DATE: DEC 3, 2007



Stantec Consulting Ltd.

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WINNIPEG

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CITY DRAWING No.

CAD FILE DRAWING No.

CONSULTANT DRAWING No. GI001-682

B176-08-01

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