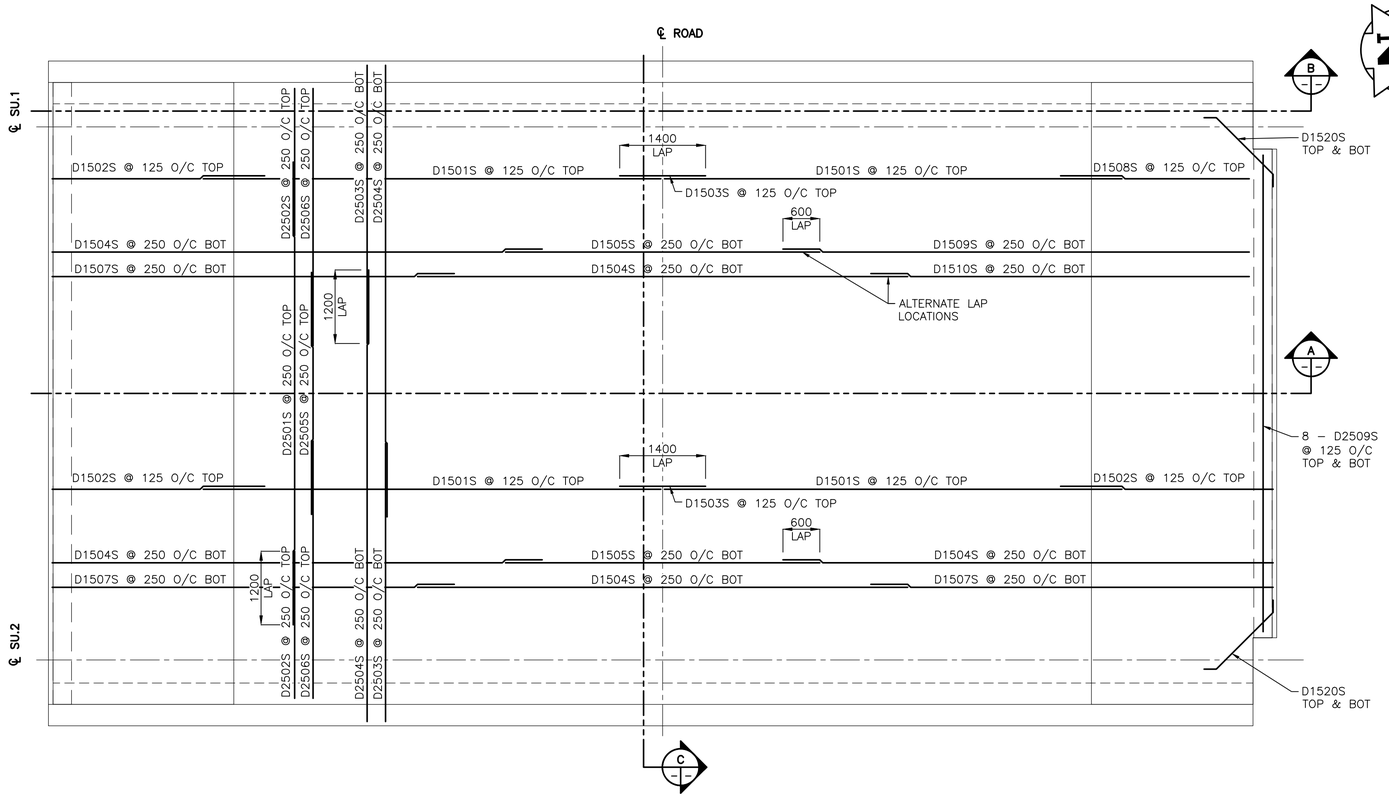


PLAN – BRIDGE DECK SLAB REINFORCEMENT
1:50

BILL OF REINFORCING STEEL

PER DECK – ONE REQ'D

STRAIGHT BARS

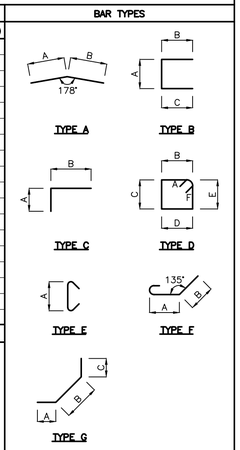
MARK	QTY.	LENGTH (mm)	MASS (kg)
D1501S	162	7500	1907.6
D1502S	144	3470	784.5
D1504S	112	8000	1406.7
D1505S	41	5130	330.2
D1507S	72	6565	742.1
D1508S	18	3080	87.0
D1509S	10	7612	119.5
D1510S	8	6177	77.6
D2501S	79	7550	2341.1
D2505S	78	3950	1209.3
D2509S	8	7775	244.1

BENT BARS

MARK	QTY.	TYPE	A	B	C	D	E	F	LENGTH (mm)	MASS (kg)
D1503S	81	A	700	700					1400	178.0
D1512S	507	E	535						815	648.7
D1513S	390	E	500						780	477.6
D1514S	858	E	450						730	983.4
D1515S	1.388	E	400						680	1481.8
D1516S	26	E	930						1210	49.4
D1517S	20	E	895						1175	36.9
D1518S	44	E	870						1150	79.4
D1519S	68	E	815						1095	116.9
D1520S	4	G	200	1310	200				1710	10.7
D2001S	158	D	100	560	500	560	500	100	2320	863.2
D2002S	158	F	1200	800					2300	818.6
D2502S	158	C	800	2400					3200	1984.5
D2503S	157	C	400	4540					4940	3044.2
D2504S	157	C	400	7370					7770	4788.1
D2506S	156	C	800	4200					5000	3061.5

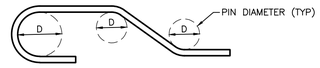
TOTAL MASS OF STAINLESS STEEL REINFORCING FOR ONE (1) DECK = 27,872.6 kg

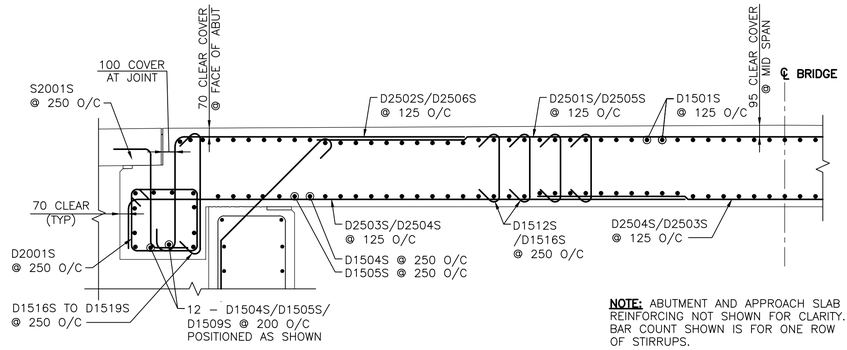
BAR TYPES



NOTE:

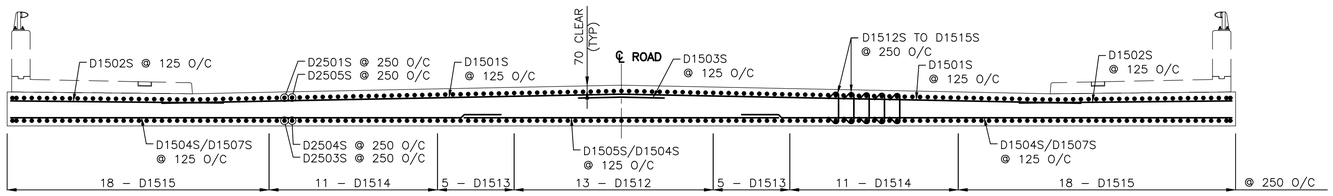
1. ALL DIMENSIONS GIVEN IN BENDING DIAGRAM ARE OUT TO OUT, EXCEPT RADII WHICH ARE INSIDE DIMENSIONS. ALL REINFORCING STEEL BENDS AND HOOKS SHALL CONFORM TO CLAUSE 6.6.2 OF C.S.A. A23.1–19, UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
2. ALL REINFORCING STEEL SHALL BE DEFORMED STEEL, UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.
3. ALL STAINLESS STEEL REINFORCING SHALL CONFORM TO ASTM A955M, 300 SERIES MINIMUM GRADE 420.
4. LIKE BARS SHALL BE BUNDLED, SECURELY TIED AND IDENTIFIED AS TO MARK AND SITE NO. BY APPROPRIATE MEANS. ALL OTHER ITEMS TO BE IDENTIFIED IN A SIMILAR FASHION.
5. UNLESS OTHERWISE NOTED, PIN DIAMETERS SHALL BE SIMILAR AT ALL BENDS AND HOOKS OF A BAR IN ACCORDANCE WITH THE FOLLOWING DETAIL:



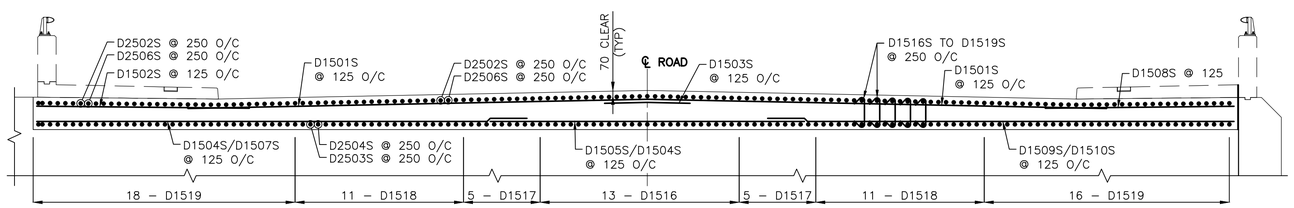


NOTE: ABUTMENT AND APPROACH SLAB REINFORCING NOT SHOWN FOR CLARITY. BAR COUNT SHOWN IS FOR ONE ROW OF STIRRUPS.

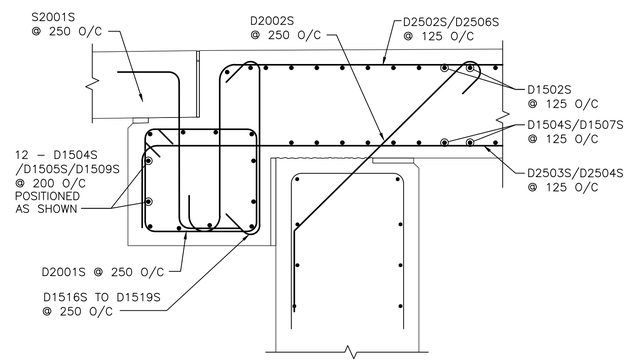
C
1:25
SECTION – BRIDGE DECK SLAB REINFORCEMENT



A
1:50
SECTION – BRIDGE DECK SLAB REINFORCEMENT



B
1:50
SECTION – BRIDGE DECK SLAB REINFORCEMENT



1
1:15
DETAIL

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	19.09.18	J.M.B.

Stantec
500 - 311 Portage Avenue, Winnipeg MB Canada
www.stantec.com

DESIGNED BY	H.M.V.	CHECKED BY	C.D.
DRAWN BY	J.M.B.	APPROVED BY	K.S.A.
HOR. SCALE: VERTICAL:	1:50 OR AS NOTED	RELEASED FOR CONSTRUCTION:	
DATE	2019.09.18	DATE	

ENGINEER'S SEAL
TENDER DRAWING
NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO.
S-109

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

DUBLIN AVENUE BRIDGE REPLACEMENT
PROPOSED BRIDGE STRUCTURE
DECK REINFORCING DETAILS

SHEET 12 OF 48
CAD FILE DRAWING NUMBER 33340s-108-926.dwg
CITY DRAWING NUMBER B105-19-12

U:\133233401\0300_drawing\0302_sheet_files\03_structural\33340s-108-926.dwg
2019/09/18 2:04 PM By: Hsin, Jake