DATA FOR STANDARD SL PRECAST GIRDER BRIDGES WITH PRECAST CONCRETE SUBSTRUCTURES

REINFORCING ONE ABUTMENT

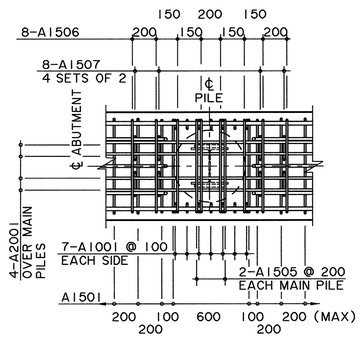
CLEAR ROADWAY (GIRDERS PER SPAN)			8940 (8)				10160 (9)				11370 (10)				12590 (11)				13810 (12)				15020 (13)			
SKEW			0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°
NUMBER OF STIRRUPS	A1501		46	48	57	68	52	56	60	74	58	60	68	86	64	70	78	98	70	74	82	100	78	82	90	112
NUMBER OF U-BARS	A1502		18	18	22	28	20	20	24	32	22	24	28	36	24	26	30	38	28	28	32	42	30	32	36	46
LENGTH OF TOP BARS	A2501	A				9000			9000	12000	9000	9000	9000	12000	9000	9000	12000	12000	9000	12000	12000	12000	12000	12000	12000	12000
NUMBER " " "						6			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
LENGTH " " "	A2502	B	9720	10060	11220	6045	10935	11320	5025	4860	4550	4980	6430	6585	5765	6240	4835	8300	6980	4495	6240	10020	5200	5755	7640	11740
NUMBER " " "			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
LENGTH OF SIDE BARS	A2503	C	12000	12000	12000	12000	12000	12000	12000	9000	12000	12000	9000	9000	12000	12000	9000	12000	9000	9000	9000	12000	9000	9000	9000	12000
NUMBER " " "			4	4	4	4	4	4	4	8	4	4	8	8	4	4	8	8	8	8	8	8	8	8	8	8
LENGTH " " "	A2504	D	4335	4865	6665	10570	5550	6125	8050	7690	6770	7385	4870	9410	7985	8645	6275	5125	4600	5300	7680	6850	5815	6560	9085	8565
NUMBER " " "			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
LENGTH OF BOTTOM BARS	A3001	E	12000	12000	12000	12000	12000	12000	12000	9000	12000	12000	9000	9000	12000	12000	9000	12000	12000	9000	9000	12000	9000	9000	9000	12000
NUMBER " " "			2	2	2	2	2	2	2	4	2	2	4	4	2	2	4	4	2	4	4	4	4	4	4	4
LENGTH " " "	A3002	F	4235	4765	6565	10470	5450	6020	7945	7490	6670	7285	4670	9210	7885	8545	6075	4925	9100	5100	7480	6650	5615	6360	8885	8365
NUMBER " " "			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LENGTH OF TOPPING BARS	A1503	G	2360	2440	2725	3335					3575	3700	4130	5055					4790	4960	5530	6775				
NUMBER OF TOPPING BARS			12	12	12	12					12	12	12	12					12	12	12	12				
LENGTH OF TOPPING BARS	A1504	G					2360	2440	2825	3400					3575	3700	4230	5300					4790	4960	5630	7030
NUMBER OF TOPPING BARS							12	12	12	12					12	12	12	12					12	12	12	12
LENGTH OF BOTTOM BARS	A2505	H	825	880	1060	1455	770	825	1000	1380	975	1035	1235	1670	910	965	1160	1575	860	915	1100	1505	1010	1070	1275	1720
NUMBER " " "			15	15	15	15	18	18	18	18	18	18	18	18	21	21	21	21	24	24	24	24	24	24	24	24
LENGTH OF BOTTOM BARS	A2506	J	1815	1905	2205	2855	1815	1905	2205	2855	1815	1905	2205	2855	1815	1905	2205	2855	1815	1905	2205	2855	1815	1905	2205	2855
NUMBER " " "			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
NUMBER OF TOP BARS	A1505		16	16	16	16	18	18	18	18	18	18	18	18	20	20	20	20	22	22	22	22	22	22	22	22
NUMBER OF PILE TIES	A1506		64	64	64	64	72	72	72	72	72	72	72	72	80	80	80	80	88	88	88	88	88	88	88	88
NUMBER OF PILE STIRRUPS	A1507		48	48	48	48	56	56	56	56	56	56	56	56	64	64	64	64	72	72	72	72	72	72	72	72
NUMBER OF EDGE TIES	A1001		84	84	84	84	98	98	98	98	98	98	98	98	112	112	112	112	126	126	126	126	126	126	126	126
NUMBER OF PILE VOID BARS	A2001		32	32	32	32	36	36	36	36	36	36	36	36	40	40	40	40	44	44	44	44	44	44	44	44
NUMBER OF EDGE TIES	W1001		28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
NUMBER OF WING U-BARS	W1501		34	34	38	44	34	34	38	44	34	34	38	44	34	34	38	44	34	34	38	44	34	34	38	44
NUMBER OF PILE TIES	W1502		16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
LENGTH OF WING BARS	W2501	K	2610	2705	3020	3710	2610	2705	3020	3710	2610	2705	3020	3710	2610	2705	3020	3710	2610	2705	3020	3710	2610	2705	3020	3710
NUMBER OF WING BARS			12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
LENGTH OF BOTTOM BARS	W2502	L	795	835	980	1290	795	835	980	1290	795	835	980	1290	795	835	980	1290	795	835	980	1290	795	835	980	1290
NUMBER OF BOTTOM BARS			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
NUMBER OF GIRDER DOWELS	Z2501H		16	16	16	16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	24	26	26	26	26

BAR LIST: FOR ONE ABUTMENT

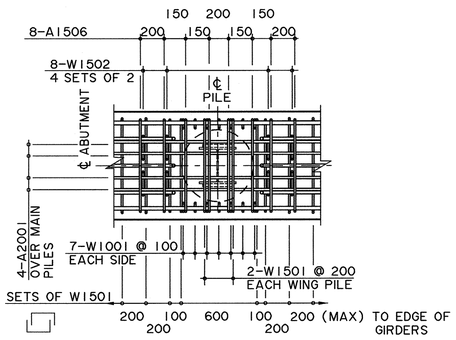
MARK	SIZE	TYPE	X	Y	LENGTH
A1001	10	B	550		690
A1501	15	C	790	550	2960
A1502	15	A	790	510	1810
A1503	15	E	G	600	G + 600
A1504	15	E	G	1200	G + 1200
A1505	15	A	790	550	1890
A1506	15	D	790		1070
A1507	15	H	180	550	1740
A2001	20	STR			2000
A2501	25	STR			A
A2502	25	STR			B
A2503	25	STR			C
A2504	25	STR			D
A2505	25	A	H	450	H + 900
A2506	25	A	J	450	J + 900
A3001	30	STR			E
A3002	30	STR			F
W1001	10	B	550		690
W1501	15	A	790	M VARIES UNIFORMLY 500 TO 560	2M + 790
W1502	15	H	180	500	1640
W2501	25	E	K	1400	K + 1400
W2502	25	A	L	450	L + 900
Z2501H	25	STR			750

NOTES:

- SUFFIX LETTER 'H' ON BAR MARK DENOTES HIGH STRENGTH SMOOTH BARS FABRICATED FROM ROUND BAR STOCK CONFORMING TO ASTM A-193-B7, HOT DIPPED GALVANIZED AFTER FABRICATION
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA G30.18 (LATEST EDITION) GRADE 400 UNLESS NOTED OTHERWISE

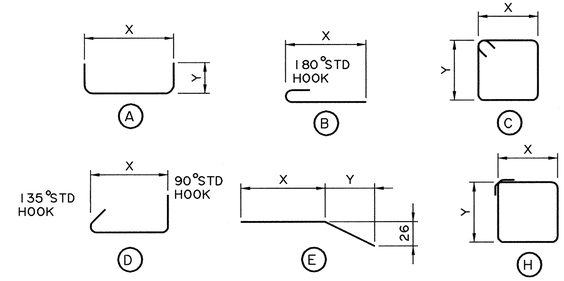


DETAIL AT MAIN H-PILE
NOTE: MID-DEPTH STEEL SHOWN



DETAIL AT WING H-PILE
NOTE: MID-DEPTH STEEL SHOWN

B S-1765-08 SECTION - REINFORCING DETAILS
NTS



BAR TYPES
(ALL BAR DIMENSIONS ARE OUT-TO-OUT) NTS

WORK DRAWINGS S-1765-08, S-1766-08, S-1767-08, S-1768-08, S-1769-08 AND S-1770-08 TOGETHER WITH SITE SPECIFIC GENERAL LAYOUT

CH2MHILL

PERMIT TO PRACTICE
CH2M HILL Canada Limited
PERMIT NUMBER: P 2558
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

DESIGNER
PROFESSIONAL ENGINEER ALBERTA DAVID GUOQIANG WU
DATE Dec.05, 2008

CHECKER
PROFESSIONAL ENGINEER ALBERTA GARY J. KRIVY
DATE Dec 5, 2008

REV	DATE	REVISIONS	BY
6			
5			
4			
3			
2			
1			

RECOMMENDED
DIRECTOR BRIDGE ENGINEERING
Tom Loo

APPROVED
EXECUTIVE DIRECTOR
TECHNICAL STANDARDS BRANCH
DATE DEC. 11/08

Alberta TRANSPORTATION

SL PRECAST GIRDER BRIDGES WITH PRECAST CONCRETE SUBSTRUCTURES - SHT 5

DEPARTMENT BAR CODE	DATE	SHEET	DRAWING
	2008-12-05	5 OF 6	S-1769-08