STATE OF VERMONT
AGENCY OF TRANSPORTATION

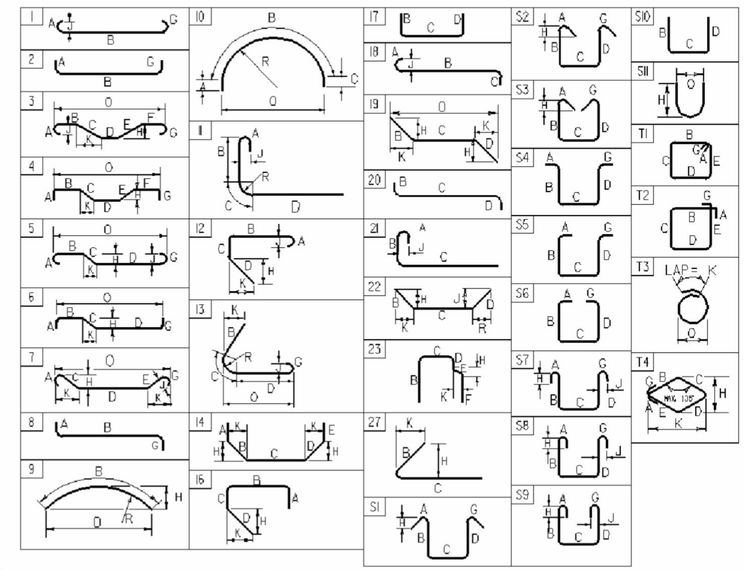
REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	ABUTMENT 1																
△	139	4	3'- 11"	1A401	S2	0'- 5"	3'- 1"	0'- 5"	0'- 0"			0'- 0"					
	14	4	3'- 11"	1A402	2	0'- 5"	3'- 1"					0'- 5"					
	144	4	6'- 10"	1A403	S6	0'- 5"	2'- 0"	2'- 0"	2'- 0"			0'- 5"					
	46	5	5'- 0"	1A501	2	0'- 6"	4'- 0"					0'- 6"					
	46	5	13'- 0"	1A502	S6	0'- 6"	4'- 0"	4'- 0"	4'- 0"			0'- 6"					
	22	6	44'- 1"	1A601	STR												
	6	6	48'- 1"	1A602	STR												
	46	6	5'- 1"	1A603	2	1'- 0"	3'- 1"					1'- 0"					
	96	6	5'- 8"	1A604	S2	0'- 8"	4'- 0"	1'- 0"	0'- 0"			0'- 0"					
	130	6	6'- 0"	1A605	2	1'- 0"	4'- 0"					1'- 0"					
	13	7	17'- 5"	1A701	20		1'- 2"	15'- 1"	1'- 2"								
	12	7	18'- 3"	1A702	20		1'- 2"	15'- 11"	1'- 2"								
	12	7	19'- 1"	1A703	20		1'- 2"	16'- 9"	1'- 2"								
	9	7	19'- 11"	1A704	20		1'- 2"	17'- 7"	1'- 2"								
	50	8	13'- 6"	1A801	STR												
	14	8	48'- 1"	1A802	STR												
	26	8	17'- 9"	1A803	20		1'- 4"	15'- 1"	1'- 4"								
	23	8	18'- 7"	1A804	20		1'- 4"	15'- 11"	1'- 4"								
	23	8	19'- 5"	1A805	20		1'- 4"	16'- 9"	1'- 4"								
	18	8	20'- 3"	1A806	20		1'- 4"	17'- 7"	1'- 4"								
	14	9	48'- 1"	1A901	STR												
	4	9	12'- 5"	1A902	17		4'- 0"	8'- 5"	0'- 0"								
	4	9	23'- 8"	1A903	17		4'- 0"	19'- 8"	0'- 0"								
	4	9	34'- 11"	1A904	17		4'- 0"	30'- 11"	0'- 0"								
	4	9	48'- 2"	1A905	17		4'- 0"	44'- 2"	0'- 0"								
	98	9	16'- 8"	1A906	2	1'- 7"	13'- 6"					1'- 7"					
	ABUTMENT 2																
	88	4	3'- 4"	2A401	S2	0'- 5"	2'- 6"	0'- 5"	0'- 0"			0'- 0"					
	9	4	3'- 4"	2A402	2	0'- 5"	2'- 6"					0'- 5"					
	120	4	7'- 7"	2A403	S6	0'- 5"	2'- 3"	2'- 3"	2'- 3"			0'- 5"					
	46	5	4'- 2"	2A501	2	0'- 6"	3'- 2"					0'- 6"					
	46	5	10'- 2"	2A502	S6	0'- 6"	3'- 0"	3'- 2"	3'- 0"			0'- 6"					
	12	6	44'- 3"	2A601	STR												
	4	6	46'- 1"	2A602	STR												
	56	6	4'- 6"	2A603	S3	0'- 8"	2'- 10"	1'- 0"	0'- 0"			0'- 0"					
	80	6	4'- 8"	2A604	S3	0'- 8"	3'- 0"	1'- 0"	0'- 0"			0'- 0"					
△	166	6	5'- 0"	2A605	2	1'- 0"	3'- 0"					1'- 0"					
	48	7	9'- 6"	2A701	STR												
	12	7	11'- 6"	2A702	20		1'- 2"	9'- 2"	1'- 2"								
	23	7	11'- 4"	2A703	6	1'- 2"	1'- 1"	2'- 6"	5'- 5"			1'- 2"				9'- 2"	
	22	7	12'- 4"	2A704	6	1'- 2"	1'- 1"	2'- 6"	6'- 5"			1'- 2"				10'- 2"	
	11	7	12'- 6"	2A705	20		1'- 2"	10'- 2"	1'- 2"								
	22	7	13'- 2"	2A706	6	1'- 2"	1'- 1"	2'- 6"	7'- 3"			1'- 2"				11'- 0"	
	11	7	13'- 4"	2A707	20		1'- 2"	11'- 0"	1'- 2"								
	23	7	14'- 1"	2A708	6	1'- 2"	1'- 1"	2'- 6"	8'- 2"			1'- 2"				11'- 11"	
	12	7	14'- 3"	2A709	20		1'- 2"	11'- 11"	1'- 2"								
	10	8	46'- 1"	2A801	STR												
	10	9	46'- 1"	2A901	STR												
	94	9	12'- 8"	2A902	2	1'- 7"	9'- 6"					1'- 7"					
	4	9	48'- 1"	2A903	17		0'- 0"	44'- 1"	4'- 0"								
	4	9	35'- 11"	2A904	17		0'- 0"	31'- 11"	4'- 0"								
	4	9	24'- 8"	2A905	17		0'- 0"	20'- 8"	4'- 0"								
	4	9	13'- 5"	2A906	17		0'- 0"	9'- 5"	4'- 0"								
	CURTAIN WALL @ WW1																
	3	9	10'- 2"	1C901E	STR												
	2	9	10'- 11"	1C902E	STR												
	8	9	11'- 8"	1C903E	STR												
	8	9	25'- 10"	1C904E	STR												
	40	5	2'- 2"	1C501E	2	0'- 6"	1'- 2"					0'- 6"					
	3	5	3'- 1"	1C502E	14		0'- 8"	1'- 9"	0'- 8"								
△	43	5	8'- 0"	1C503E	17		1'- 8"	1'- 2"	5'- 2"								
	CURTAIN WALL @ WW2																
	3	9	9'- 8"	2C901E	STR												
	2	9	10'- 5"	2C902E	STR												
	8	9	11'- 1"	2C903E	STR												
	6	9	22'- 9"	2C904E	STR												
	36	5	2'- 2"	2C501E	2	0'- 6"	1'- 2"					0'- 6"					
	3	5	3'- 1"	2C502E	14		0'- 8"	1'- 9"	0'- 8"								
	36	5	7'- 6"	2C503E	17		1'- 8"	1'- 2"	4'- 8"								
	CURTAIN WALL @ WW3																
✳	4	9	7'- 2"	3C901E	STR												
	2	9	7'- 11"	3C902E	STR												
	6	9	8'- 8"	3C903E	STR												
	8	9	17'- 3"	3C904E	STR												
	29	5	2'- 2"	3C501E	2	0'- 6"	1'- 2"					0'- 6"					
	3	5	3'- 1"	3C502E	14		0'- 8"	1'- 9"	0'- 8"								
	28	5	7'- 6"	3C503E	17		1'- 8"	1'- 2"	4'- 8"								
	CURTAIN WALL @ WW4																
	3	9	7'- 11"	4C901E	STR												
	2	9	8'- 8"	4C902E	STR												
	6	9	9'- 6"	4C903E	STR												
	6	9	15'- 4"	4C904E	STR												
	27	5	2'- 2"	4C501E	2	0'- 6"	1'- 2"					0'- 6"					
	3	5	3'- 1"	4C502E	14		0'- 8"	1'- 9"	0'- 8"								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	24	5	7'- 0"	4C503E	17		1'- 8"	1'- 2"	4'- 2"								
	WINGWALL #1																
	6	4	14'- 4"	1W401	17		11'- 2"	1'- 2"	2'- 0"								
✳	27	5	5'- 0"	1W501	STR												
	11	5	3'- 11"	1W502	STR												
	62	5	11'- 2"	1W503	STR												
	34	5	27'- 8"	1W504	STR												
	13	5	12'- 8"	1W505	STR												
	11	5	19'- 6"	1W506	STR												
				1W507	Not Used												
	19	5	15'- 9"	1W508	STR												
	26	5	17'- 8"	1W509	STR												
	19	5	3'- 11"	1W510	STR												
				1W701	Not Used												
				1W702	Not Used												
	21	7	6'- 10"	1W703	17		1'- 2"	5'- 8"	0'- 0"								
	37	7	6'- 5"	1W704	17		1'- 2"	5'- 3"	0'- 0"								
✳	38	7	15'- 9"	1W705	STR												
	37	8	12'- 6"	1W801	17		11'- 2"	1'- 4"	0'- 0"								
	24	8	14'- 0"	1W802	17		12'- 8"	1'- 4"	0'- 0"								
	WINGWALL #2																
	6	4	12'- 10"	2W401	17		2'- 0"	1'- 2"	9'- 8"								
	22	5	5'- 0"	2W501	STR												
	11	5	16'- 5"	2W502	STR												
	50	5	9'- 8"	2W503	STR												
	49	5	11'- 2"	2W504	STR												
	28	5	25'- 8"	2W505	STR												
	11	5	3'- 11"	2W506	STR												
				2W507	Not Used												
	17	5	12'- 9"	2W508	STR												
	22	5	15'- 8"	2W509	STR												
	17	5	3'- 11"	2W510	STR												
	33	6	5'- 5"	2W601	17		1'- 0"	4'- 5"	0'- 0"								
	33	6	12'- 9"	2W602	STR												
	21	7	16'- 5"	2W701	STR												
	21	7	6'- 4"	2W702	17		1'- 1"	5'- 3"	0'- 0"								
✳	25	8	11'- 2"	2W801	STR												
	WINGWALL #3																
	6	4	10'- 4"	3W401	17		2'- 0"	1'- 2"	7'- 2"								
✳	19	5	5'- 0"	3W501	STR												
				3W502	Not Used												
	22	5	7'- 2"	3W503	STR												
	32	5	7'- 8"	3W504	STR												
	11	5	7'- 5"	3W505	STR												
	22	5	15'- 8"	3W506	STR												
	18	5	9'- 2"	3W507	STR												
	26	5	9'- 8"	3W508	STR												
	8	5	11'- 6"	3W509	STR												
	11	5	4'- 10"	3W510	17		0'- 10"	4'- 0"	0'- 0"								
	8	5	3'- 11"	3W511	STR												
	11	5	7'- 5"	3W512	STR												
	11	5	3'- 11"	3W513	STR												
	14	6	11'- 6"	3W601	STR												
	14	6	5'- 4"	3W602	17		1'- 0"	4'- 4"	0'- 0"								
	WINGWALL #4																
	35	5	8'- 2"	4W501	STR												
	42	5	10'- 8"	4W502	STR												
	12	5	9'- 7"	4W503	STR												
	23	5	4'- 10"	4W504	17		0'- 10"	4'- 0"	0'- 0"								
	23	5	9'- 7"	4W505	STR												
	12	5	3'- 6"	4W506	STR												
	Shear Lug Reinforcement_Abutment 1																
	16	5	8'- 4"	1L501	T1	0'- 6"	2'- 0"	1'- 8"	2'- 0"	1'- 8"		0'- 6"					
	20	6	6'- 2"	1L601	17		2'- 2"	1'- 10"	2'- 2"								
	20	6	6'- 6"	1L602	17		2'- 6"	1'- 6"	2'- 6"								
	Shear Lug Reinforcement_Abutment 2																
	32	5	8'- 4"	2L501	T1	0'- 6"	2'- 0"	1'- 8"	2'- 0"	1'- 8"		0'- 6"					
	40	6	6'- 2"	2L601	17		2'- 2"	1'- 10"	2'- 2"								
	40	6	6'- 6"	2L602	17		2'- 6"	1'- 6"	2'- 6"								

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES. TWO 2'-6" LENGTHS REQUIRED.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSE. TWO 2'-6" LENGTHS REQUIRED
11. E IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES²	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

AS BUILT
RECORD PLANS

RFC PLANS - WORK PACKAGE #4
BRIDGE 6N SUBSTRUCTURE
JULY 6, 2011

PROJECT NAME: BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(50)

FILE NAME: ZB-100-BR6-502.xls
PROJECT MANAGER: Brian W. Clogston P.E.
DESIGNED BY: Megan Neill P.E., Mike Lopez, P.E.
REINFORCING STEEL SCHEDULE SHEET

PLOT DATE: 7/5/2011
DRAWN BY: Scott Morgan
CHECKED BY: J. England, P.E.
SHEET 1 OF 1