STATE OF VERMONT
AGENCY OF TRANSPORTATION

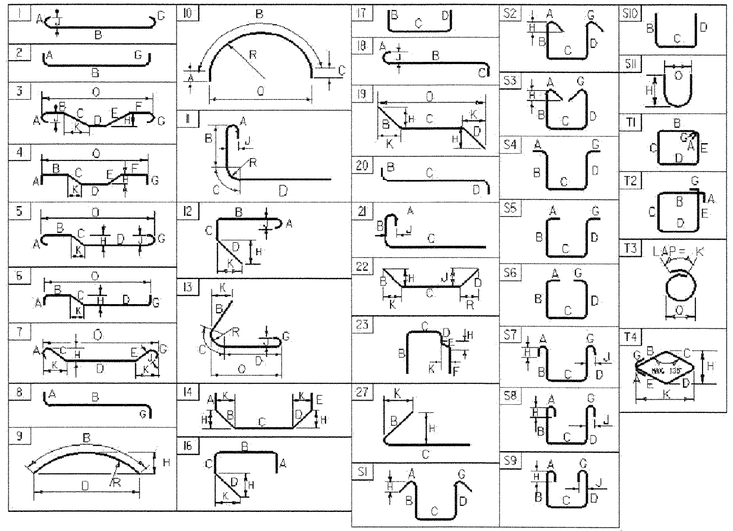
REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
DECK																	
	128	5	33'- 8"	ES501	STR												
✳ ▲	265	5	22'- 10"	ES502	STR												
	12	5	32'- 4"	ES503	STR												
✳	127	5	7'- 0"	ES504	S5	2'- 2"	1'- 2"	0'- 8"	0'- 10"			2'- 2"					
	36	5	9'- 8"	ES505	S6	0'- 4"	3'- 4"	0'- 9"	5'- 3"			---					
ABUTMENT #1																	
	12	5	19'- 2"	1A501	STR												
	12	5	21'- 2"	1A502	STR												
	40	5	5'- 9"	1A503	STR												
	40	5	3'- 11"	1A504	STR												
	40	5	3'- 11"	1A505	STR												
✳	43	5	6'- 8"	1A506	STR												
	46	5	20'- 6"	1A507	STR												
▲	39	5	4'- 6"	1A509	STR												
✳	45	5	7'- 6"	1A510	17		3'- 11"	3'- 7"	---								
▲	39	5	7'- 4"	1A511	22		---	5'- 4"	2'- 0"				---	1'- 5"	---	1'- 5"	
	40	5	6'- 0"	1A512	17		2'- 2"	2'- 7"	1'- 3"								
	7	5	7'- 7"	1A513	20		2'- 2"	3'- 0"	2'- 5"								
	5	5	9'- 6"	1A514	19		2'- 2"	4'- 2"	3'- 2"				1'- 7"		1'- 7"		7'- 3"
	4	5	4'- 8"	1A515	22		2'- 2"	2'- 6"	---				2'- 0"	---	1'- 1"	---	
	4	5	5'- 10"	1A516	22		2'- 2"	3'- 8"	---				2'- 0"	---	1'- 1"	---	
	5	5	4'- 4"	1A517	22		2'- 2"	2'- 2"	---				2'- 0"	---	1'- 1"	---	
	5	5	12'- 4"	1A518	22		2'- 2"	8'- 0"	2'- 2"				1'- 1"	1'- 1"	1'- 11"	1'- 11"	
	4	5	6'- 2"	1A519	22		2'- 2"	4'- 0"	---				1'- 4"	---	1'- 7"	---	
	4	5	7'- 4"	1A520	22		2'- 2"	5'- 2"	---				1'- 4"	---	1'- 7"	---	
	8	5	5'- 8"	1A521	22		2'- 2"	3'- 6"	---				1'- 4"	---	1'- 7"	---	
	8	5	5'- 1"	1A522	22		2'- 11"	2'- 2"	---				1'- 10"	---	2'- 1"	---	
	8	5	4'- 4"	1A523	22		2'- 2"	2'- 2"	---				1'- 4"	---	1'- 7"	---	
△	21	8	3'- 6"	1A801	STR												
WINGWALL #1																	
	12	5	31'- 11"	1W501	STR												
	32	5	3'- 11"	1W502	STR												
	3	5	6'- 9"	1W503	STR												
	29	5	9'- 7"	1W504	STR												
	2	5	6'- 9"	1W505	STR												
	30	5	9'- 7"	1W506	STR												
✳	37	5	16'- 7"	1W507	STR												
	8	5	13'- 5"	1W508	STR												
✳	30	5	5'- 4"	1W509	17		2'- 2"	1'- 0"	2'- 2"								
△	34	6	8'- 2"	1W601	17		5'- 1"	3'- 1"	---								
△	33	7	6'- 9"	1W701	STR												
△	18	8	3'- 6"	1W801	STR												
WINGWALL #2																	
	10	5	11'- 11"	2W501	STR												
	10	5	5'- 3"	2W502	STR												
	10	5	3'- 11"	2W503	STR												
✳ ▲	21	5	7'- 9"	2W504	STR												
▲	16	5	10'- 8"	2W505	STR												
✳	11	5	5'- 4"	2W506	17		2'- 2"	1'- 0"	2'- 2"								
	11	5	7'- 0"	2W507	17		3'- 11"	3'- 1"	---								
	2	5	9'- 6"	2W508	19		---	7'- 10"	1'- 8"				1'- 5"		0'- 11"		9'- 3"
△	7	8	3'- 6"	2W801	STR												

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
ABUTMENT #2																	
	15	5	21'- 2"	2A501	STR												
	15	5	20'- 0"	2A502	STR												
	47	5	3'- 11"	2A503	STR												
	21	5	7'- 3"	2A504	STR												
	19	5	4'- 5"	2A505	STR												
	26	5	12'- 6"	2A506	STR												
	21	5	9'- 7"	2A507	STR												
✳	71	5	21'- 6"	2A508	STR												
▲	39	5	4'- 7"	2A510	STR												
▲	39	5	7'- 6"	2A511	22		---	5'- 6"	2'- 0"								
✳	44	5	6'- 0"	2A512	17		2'- 2"	2'- 7"	1'- 3"								
	10	5	7'- 7"	2A513	20		2'- 2"	3'- 0"	2'- 5"								
	5	5	9'- 6"	2A514	19		2'- 2"	4'- 2"	3'- 2"				1'- 7"		1'- 7"		7'- 3"
	4	5	6'- 5"	2A515	27		2'- 2"	4'- 3"					1'- 6"		1'- 6"		
	4	5	5'- 8"	2A516	27		2'- 2"	3'- 6"					1'- 6"		1'- 6"		
	13	5	6'- 9"	2A517	27		2'- 8"	4'- 1"					2'- 0"		2'- 0"		
	13	5	8'- 8"	2A518	22		2'- 2"	4'- 4"	2'- 2"				2'- 0"	2'- 0"	0'- 11"	0'- 11"	
	4	5	6'- 8"	2A519	19		---	4'- 6"	2'- 2"								5'- 8"
	4	5	5'- 11"	2A520	19		---	3'- 9"	2'- 2"								5'- 1"
	11	5	4'- 4"	2A521	19		---	2'- 2"	2'- 2"								3'- 8"
	11	5	14'- 0"	2A522	22		2'- 2"	9'- 8"	2'- 2"				1'- 0"	1'- 0"	1'- 10"	1'- 10"	
✳	80	6	7'- 5"	2A601	STR												
✳	84	6	8'- 5"	2A602	17		4'- 1"	4'- 4"	---								
✳	20	8	3'- 6"	2A801	STR												
✳	41	8	8'- 6"	2A802	STR												
WINGWALL #3																	
	16	5	19'- 6"	3W501	STR												
	24	5	3'- 11"	3W502	STR												
	22	5	16'- 0"	3W503	STR												
	2	5	12'- 6"	3W504	STR												
	20	5	8'- 6"	3W505	STR												
✳	27	5	22'- 6"	3W506	STR												
	8	5	19'- 6"	3W507	STR												
✳	22	5	5'- 4"	3W508	17		2'- 2"	1'- 0"	2'- 2"								
✳	10	8	3'- 6"	3W801	STR												
✳	23	8	9'- 8"	3W802	STR												
	42	8	10'- 2"	3W803	17		6'- 8"	3'- 6"	---								
△	41	9	9'- 9"	3W901	STR												
WINGWALL #4																	
	15	5	8'- 11"	4W501	STR												
	15	5	14'- 6"	4W502	STR												
	23	5	3'- 11"	4W503	STR												
	3	5	10'- 0"	4W504	STR												
	11	5	13'- 6"	4W505	STR												
✳	33	5	11'- 6"	4W506	STR												
	4	5	6'- 11"	4W507	STR												
	26	5	17'- 9"	4W508	STR												
	18	5	6'- 4"	4W509	STR												
	8	5	3'- 6"	4W510	STR												
✳	22	5	5'- 4"	4W511	17		2'- 2"	1'- 0"	2'- 2"								
	10	5	6'- 4"	4W512	20		2'- 2"	2'- 0"	2'- 2"								
	5	5	7'- 1"	4W513	19		2'- 2"	2'- 9"	2'- 2"								
✳	24	7	8'- 8"	4W701	17		5'- 2"	3'- 6"	---								
✳	24	7	8'- 8"	4W702	17		7'- 6"	1'- 2"	---								
△	12	8	3'- 6"	4W801	STR												
△	23	9	8'- 6"	4W901	STR												

~ 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 M 31 (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.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
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 INCHES ^{2}	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

PROJECT NAME: Reading
PROJECT NUMBER: BRZ 1444(23)

FILE NAME: 90j058\Structures\sj058.xls
PROJECT MANAGER: C.P.WILLIAMS
DESIGNED BY: R.S.YOUNG
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: 10/10/2007
DRAWN BY: D.D.BEARD
CHECKED BY: R.S.YOUNG
SHEET 30 OF 49