STATE OF VERMONT
AGENCY OF TRANSPORTATION

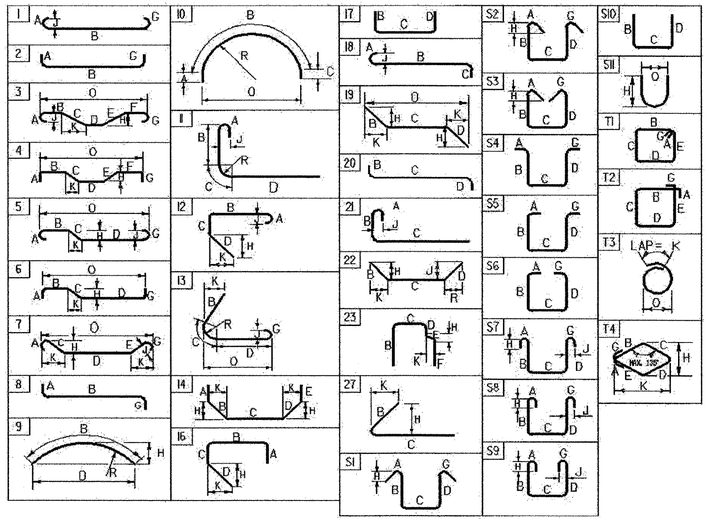
REINFORCING STEEL SCHEDULE

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
SUPER STRUCTURE																	
	1594	5	40'- 10"	ES501	STR												
●	335	5	7'- 0"	ES502	STR												
▲ ●	966	5	35'- 2"	ES503	STR												
▲	12	5	43'- 7"	ES504	STR												
▲ ■	546	5	35'- 6"	ES601	STR												
▲ ●	25	8	11'- 3"	ES801	STR												
	78	4	3'- 4"	ES401	T4	0'- 4"	0'- 8"	0'- 8"	0'- 8"	0'- 8"		0'- 4"	0'- 10"		0'- 10"		
	396	5	6'- 11"	ES505	S5	2'- 0"	1'- 3"	0'- 10"	0'- 10"			2'- 0"					
▲	63	5	8'- 7"	ES506	S10		3'- 8"	1'- 3"	3'- 8"								
	56	5	6'- 6"	ES507	S5	0'- 6"	1'- 7"	0'- 8"	3'- 9"			----					
■	398	7	13'- 3"	ES701	S5	2'- 0"	1'- 3"	7'- 2"	0'- 10"			2'- 0"					
	78	7	14'- 9"	ES702	S10		6'- 9"	1'- 3"	6'- 9"								
	24	8	6'- 3"	ES802	17		1'- 3"	5'- 0"	----								
APPROACH SLAB 1																	
▲ ●	22	5	29'- 11"	1EAS501	STR												
●	38	9	20'- 9"	1EAS901	1	1'- 3"	19'- 6"					----		0'- 11"			
APPROACH SLAB 2																	
●	22	5	30'- 6"	2EAS501	STR												
●	38	9	20'- 9"	2EAS901	STR	1'- 3"	19'- 6"					----		0'- 11"			
PIER																	
●	44	5	5'- 0"	P501	STR												
▲ ●	51	5	24'- 2"	P502	STR												
	15	5	3'- 3"	P503	STR												
	82	8	19'- 7"	P801	STR												
●	121	8	9'- 3"	P802	STR												
●	161	8	18'- 8"	P803	STR												
	38	8	22'- 1"	P804	STR												
	25	5	7'- 8"	P504	17		2'- 8"	2'- 4"	2'- 8"								
	124	5	12'- 10"	P505	17		3'- 3"	6'- 4"	3'- 3"								
	280	5	13'- 6"	P506	T1	0'- 4"	3'- 2"	3'- 3"	3'- 2"	3'- 3"		0'- 4"					
	76	5	9'- 4"	P507	T1	0'- 4"	3'- 4"	1'- 10"	3'- 4"	0'- 2"		0'- 4"					
	68	5	11'- 9"	P508	T1	0'- 4"	3'- 3"	2'- 9"	3'- 3"	1'- 10"		0'- 4"					
	60	5	13'- 0"	P509	T1	0'- 4"	3'- 2"	3'- 3"	3'- 2"	2'- 9"		0'- 4"					
	11	5	9'- 6"	P510	T1	0'- 4"	1'- 2"	3'- 3"	1'- 2"	3'- 3"		0'- 4"					
	11	5	8'- 8"	P511	T1	0'- 4"	1'- 2"	2'- 11"	1'- 2"	2'- 9"		0'- 4"					
	10	5	6'- 10"	P512	T1	0'- 4"	1'- 2"	2'- 0"	1'- 2"	1'- 10"		0'- 4"					
	9	8	14'- 0"	P805	10	4'- 7"	4'- 10"	4'- 7"								3'- 1"	6'- 2"
	7	8	8'- 1"	P806	17		2'- 0"	4'- 1"	2'- 0"								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
ABUTMENT 1																	
	58	5	4'- 2"	1A501	STR												
●	43	5	13'- 2"	1A502	STR												
●	17	5	15'- 10"	1A502A	STR												
▲	112	5	30'- 0"	1A503	STR												
	42	5	4'- 4"	1A504	STR												
▲	84	5	9'- 0"	1A505	STR												
▲	60	5	12'- 0"	1A505A	STR												
▲	52	5	5'- 3"	1A506	STR												
■	66	6	10'- 7"	1A601	STR												
●	45	8	33'- 3"	1A801	STR												
●	60	8	14'- 0"	1A802	STR												
	42	5	8'- 10"	1A507	17		2'- 2"	4'- 6"	2'- 2"								
	42	5	5'- 2"	1A508	17		2'- 2"	0'- 10"	2'- 2"								
	33	5	7'- 1"	1A509	16	2'- 2"	1'- 9"	1'- 2"	2'- 0"				1'- 5"		1'- 5"		
	20	5	7'- 2"	1A510	17		3'- 0"	1'- 2"	3'- 0"								
▲	33	5	10'- 10"	1A511	9		10'- 10"						0'- 8"			22'- 0"	10'- 9"
▲	33	5	5'- 9"	1A512	11	----	----	3'- 0"	2'- 9"					----		4'- 0"	
▲	48	5	5'- 8"	1A513	17		2'- 2"	3'- 6"	----								
	24	5	8'- 8"	1A514	17		2'- 2"	6'- 6"	----								
	24	5	6'- 2"	1A515	27		1'- 5"	4'- 9"					1'- 0"	1'- 0"			
	122	8	11'- 0"	1A803	17		1'- 4"	9'- 8"	----								
	64	8	12'- 5"	1A804	1	0'- 11"	10'- 7"					0'- 11"		0'- 8"			
	17	8	4'- 1"	1A805	22		1'- 9"	2'- 4"	----				1'- 3"	----	1'- 3"	----	
WINGWALL 1																	
	21	5	4'- 2"	1W501	STR												
▲	21	5	23'- 6"	1W502	STR												
	21	5	10'- 6"	1W503	STR												
	47	5	19'- 6"	1W504	STR												
	21	5	2'- 2"	1W505	STR												
	24	6	22'- 9"	1W601	STR												
●	22	7	7'- 6"	1W701	STR												
	18	8	11'- 2"	1W801	STR												
	21	9	11'- 1"	1W901	STR												
	21	5	4'- 7"	1W506	17		1'- 6"	1'- 7"	1'- 6"								
	18	7	12'- 10"	1W702	1	0'- 10"	11'- 2"					0'- 10"		0'- 7"			
	40	9	10'- 6"	1W902	17		1'- 7"	8'- 11"	----								
WINGWALL 2																	
	21	5	4'- 2"	2W501	STR												
▲	21	5	23'- 3"	2W502	STR												
	21	5	10'- 3"	2W503	STR												
	49	5	19'- 6"	2W504	STR												
	21	5	2'- 2"	2W505	STR												
	24	6	22'- 9"	2W601	STR												
	22	7	7'- 6"	2W701	STR												
	18	8	11'- 2"	2W801	STR												
	21	9	11'- 1"	2W901	STR												
	21	5	4'- 7"	2W506	17		1'- 6"	1'- 7"	1'- 6"								
	18	7	12'- 10"	2W702	1	0'- 10"	11'- 2"					0'- 10"		0'- 7"			
	40	9	10'- 6"	2W902	17		1'- 7"	8'- 11"	----								

~ 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 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: **Royalton**
PROJECT NUMBER: **BRZ 1444(22)**

FILE NAME: 89j099rei.xls
PROJECT LEADER: C.P. Williams
DESIGNED BY: C.P. Williams
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: 8/11/00
DRAWN BY: C.P. Williams
CHECKED BY: W.B. Symonds
SHEET 93 OF 118