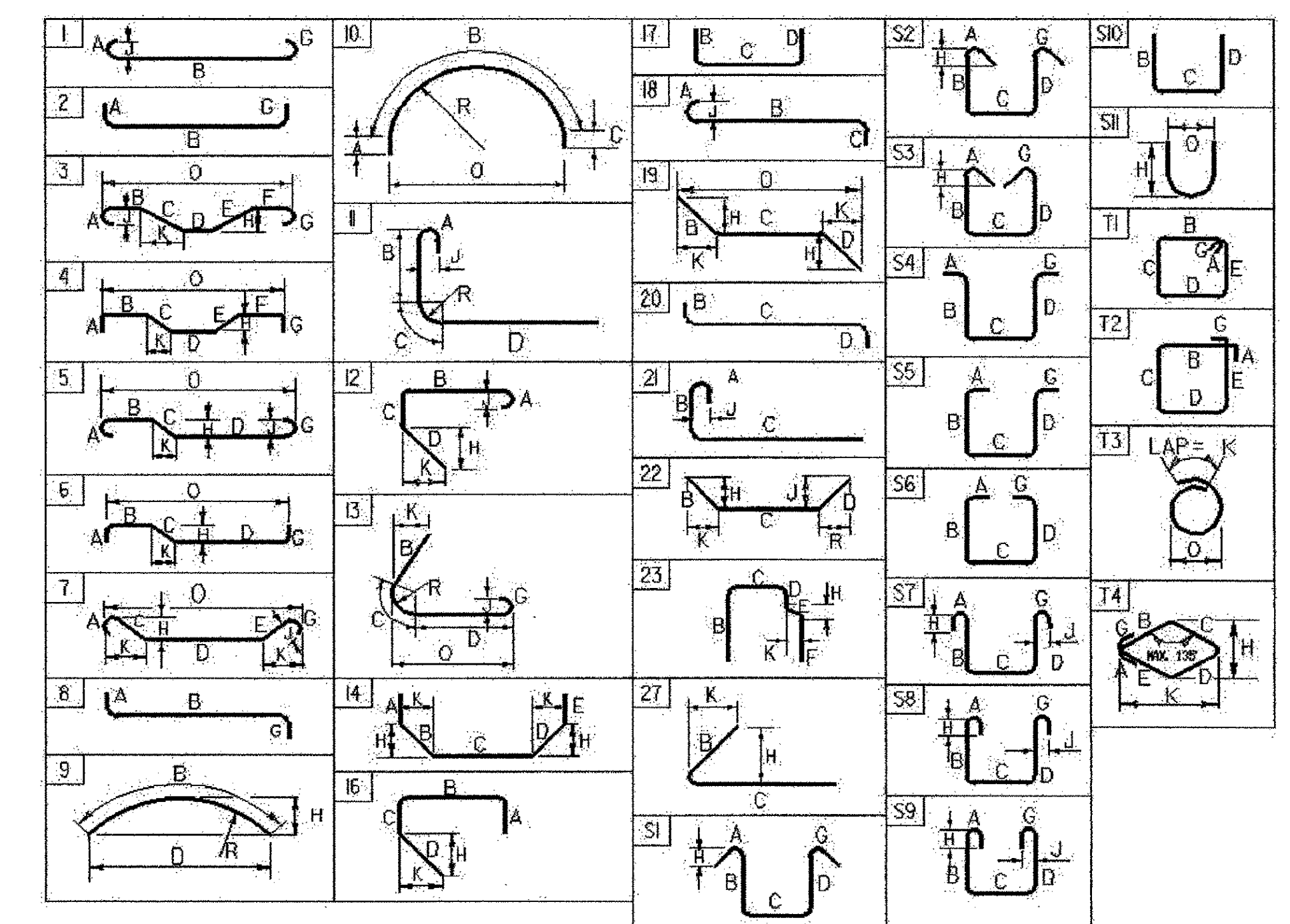


REINFORCING STEEL SCHEDULE

EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O						
ABUTMENT 2																																								
▲	38	5	32'-0"	2A501	STR																																			
	57	5	4'-5"	2A502	STR																																			
●	41	5	13'-9"	2A503	STR																																			
	16	5	16'-3"	2A503A	STR																																			
	42	5	4'-4"	2A504	STR																																			
▲	112	5	30'-6"	2A505	STR																																			
●	84	5	9'-1"	2A506	STR																																			
▲	56	5	12'-0"	2A506A	STR																																			
▲	62	5	5'-3"	2A507	STR																																			
	42	5	8'-10"	2A508	17			2'-2"	4'-6"	2'-2"																														
	20	5	7'-2"	2A509	17			3'-0"	1'-2"	3'-0"																														
	42	5	5'-2"	2A510	17			2'-2"	0'-10"	2'-2"																														
	33	5	7'-1"	2A511	16	2'-2"		1'-9"	1'-2"	2'-0"																														
	11	5	6'-4"	2A512	8	2'-2"		2'-0"			2'-2"																													
	8	5	9'-1"	2A513	19			2'-2"	4'-9"	2'-2"					1'-1"																									
	48	5	5'-8"	2A514	22			3'-6"	2'-2"						3'-5"																									
▲	33	5	7'-7"	2A515	11				3'-7"	4'-0"																														
▲	31	5	9'-3"	2A516	9				9'-3"						0'-6"																									
	25	5	7'-8"	2A517	22				5'-6"	2'-2"					5'-6"																									
	23	5	9'-2"	2A518	17				2'-2"	7'-0"																														
	62	7	10'-7"	2A701	STR																																			
●	34	8	3'-6"	2A801	STR																																			
●	58	8	14'-6"	2A802	STR																																			
	112	8	17'-7"	2A803	17			7'-8"	9'-11"																															
	17	8	4'-1"	2A804	22			1'-9"	2'-4"						1'-3"																									
WINGWALL 3																																								
	20	5	28'-6"	3W501	STR																																			
	22	5	4'-5"	3W502	STR																																			
	22	5	24'-0"	3W503	STR																																			
	22	5	11'-1"	3W504	STR																																			
	51	5	21'-0"	3W505	STR																																			
	22	5	2'-2"	3W506	STR																																			
	22	5	4'-7"	3W507	17			1'-6"	1'-7"	1'-6"																														
●	22	7	7'-6"	3W701	STR																																			
	14	8	3'-6"	3W801	STR																																			
●	44	9	12'-3"	3W901	STR																																			
●	22	9	11'-1"	3W902	STR																																			
	44	9	14'-11"	3W903	17			5'-9"	9'-2"																															
WINGWALL 4																																								
	18	5	23'-9"	4W501	STR																																			
	22	5	4'-5"	4W502	STR																																			
	22	5	21'-9"	4W503	STR																																			
	22	5	11'-1"	4W504	STR																																			
	47	5	21'-9"	4W505	STR																																			
	22	5	2'-2"	4W506	STR																																			
	22	5	4'-7"	4W507	17			1'-6"	1'-7"	1'-6"																														
	14	8	3'-6"	4W801	STR																																			
●	44	8	11'-2"	4W802	STR																																			
●	22	8	12'-10"	4W803	STR																																			
	44	8	14'-10"	4W804	17			5'-3"	9'-7"																															

~ NOTES ~

- 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-S). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- 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".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS. STANDARD HOOKS ARE TO BE USED.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- "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: 89099rel.xls
 PROJECT LEADER: C.P. Williams
 DESIGNED BY: C.P. Williams
 PLOT DATE: 8/11/00
 DRAWN BY: C.P. Williams
 CHECKED BY: W.B. Symonds
 REINFORCING STEEL SCHEDULE SHEET #2
 SHEET 94 OF 118