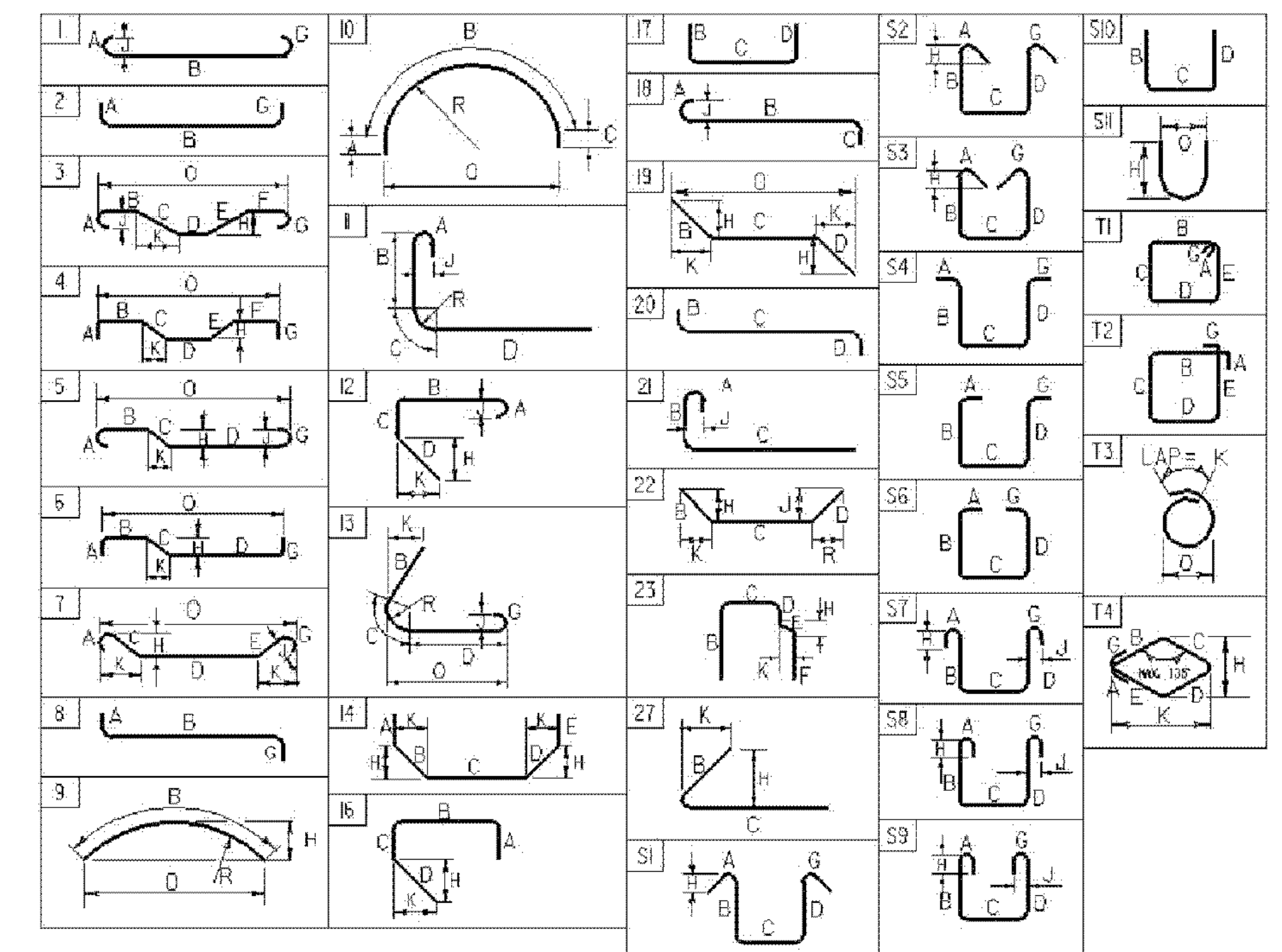


REINFORCING STEEL SCHEDULE

ITEM	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 #1																																				
△	13	4	9'-6"	1ES401	S5	2'-2"	2'-3"	0'-5"	2'-6"								2'-2"																			
	10	4	11'-10"	1ES402	S5	2'-2"	0'-11"	5'-9"	0'-10"								2'-2"																			
*	6	5	3'-9"	1ES501	STR																															
	17	5	6'-10"	1ES502	STR																															
	44	5	7'-11"	1ES503	S10		2'-2"	3'-7"	2'-2"																											
*	29	5	9'-7"	1ES504	22		7'-7"	2'-0"	---																											
	13	5	11'-5"	1ES505	S10		3'-11"	3'-7"	3'-11"																											
▲	4	5	9'-2"	1ES506	STR																															
	13	5	3'-6"	1ES507	STR																															
*	53	6	22'-10"	1ES601	STR																															
▲	28	6	29'-1"	1ES602	STR																															
*	15	6	11'-9"	1ES603	STR																															
△	30	7	12'-0"	1ES701	17		5'-4"	6'-8"	---																											
ABUTMENT #2																																				
*	13	4	9'-6"	2ES401	S5	2'-2"	2'-3"	0'-5"	2'-6"								2'-2"																			
*	12	4	11'-10"	2ES402	S5	2'-2"	1'-0"	5'-9"	0'-9"								2'-2"																			
*	29	5	7'-9"	2ES501	STR																															
	49	5	7'-11"	2ES503	S10		2'-2"	3'-7"	2'-2"																											
	28	5	9'-7"	2ES504	22		7'-7"	2'-0"	---																											
*	15	5	11'-7"	2ES505	S10		4'-0"	3'-7"	4'-0"																											
▲	4	5	9'-7"	2ES506	STR																															
	14	5	3'-6"	2ES507	STR																															
	52	6	25'-2"	2ES601	STR																															
▲	29	6	32'-2"	2ES602	STR																															
*	29	6	8'-1"	2ES603	STR																															
△	30	7	12'-0"	2ES701	17		5'-4"	6'-8"	---																											
SIDEWALK																																				
△	191	4	9'-2"	ESW401	S5	2'-2"	2'-0"	0'-5"	2'-5"								2'-2"																			
△	30	5	32'-10"	ESW501	STR																															

~ 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.
- "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 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: CHESTER
PROJECT NUMBER: BRF 025-1(37)

FILE NAME: \95b168\95b168excel.dgn
PROJECT MANAGER: C.P.WILLIAMS
DESIGNED BY: R.S.YOUNG
BRIDGE 9 REINFORCING STEEL SCHEDULE

PLOT DATE: 8/31/2010
DRAWN BY: D.D.BEARD
CHECKED BY: R.S.YOUNG
SHEET 103 OF 124