

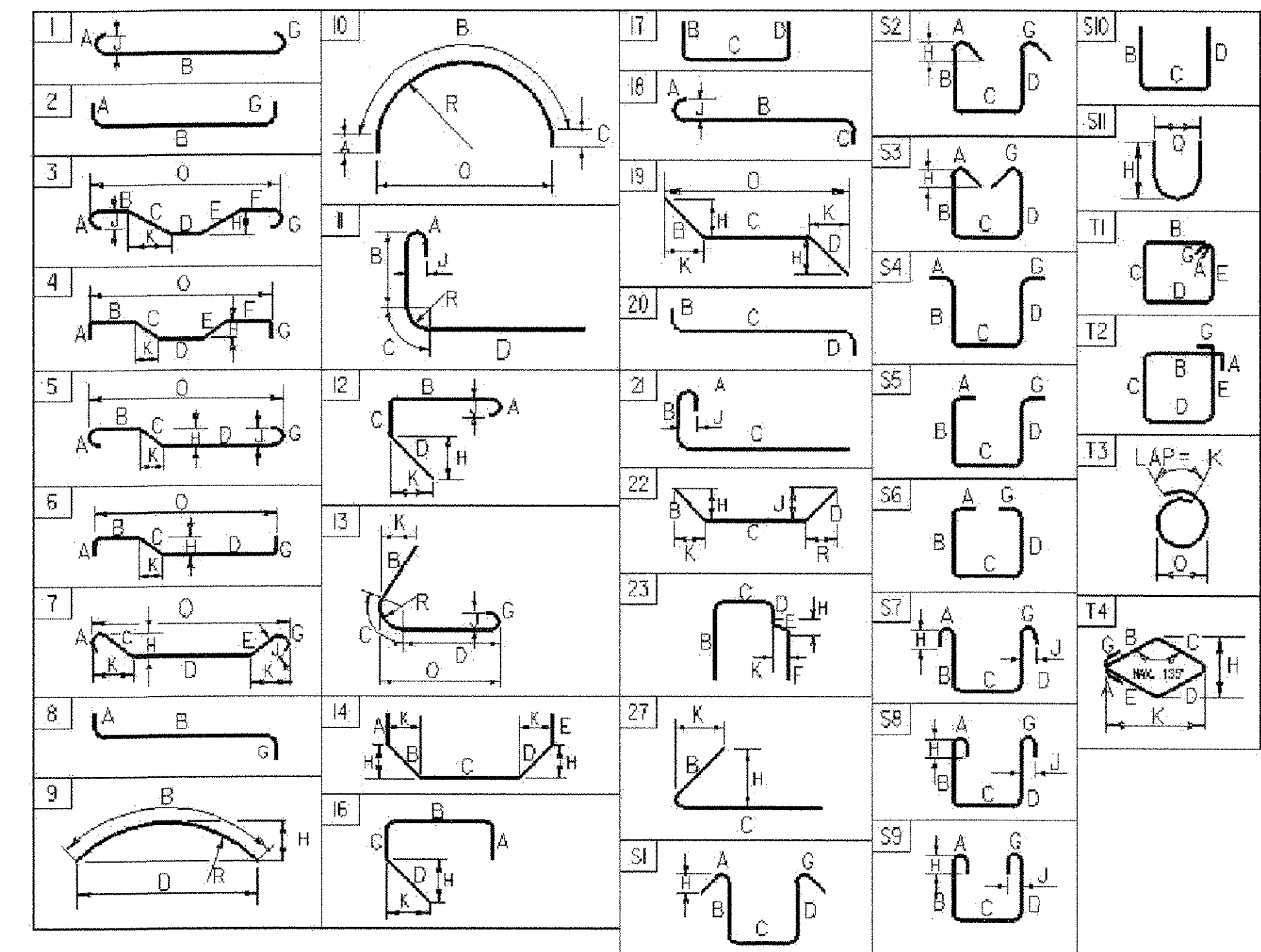
REINFORCING STEEL SCHEDULE



ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
DECK																	
*	74	16	5540	ES1601	STR												
	56	16	9800	ES1602	STR												
	19	16	570	ES1604	STR												
	128	16	1500	ES1603	S5	300	305	290	305			300					
	38	16	1230	ES1605	17		-	660	570								
ABUTMENT #1																	
*	17	16	5540	1A1601	STR												
	6	19	1920	1A1901	STR												
	17	16	4680	1A1602	17	1920	840	1920									
	17	16	2160	1A1603	17	660	840	660									
	16	16	3780	1A1604	22	660	2460	660									
WINGWALL #1																	
▲	5	16	2960	1W1601	STR												
*	9	16	1920	1W1602	STR												
▲	24	19	2340	1W1901	STR												
▲	5	22	2960	1W2201	STR												
	5	16	1730	1W1603	S10	720	290	720									
WINGWALL #2																	
▲	5	16	2960	2W1601	STR												
	8	16	1920	2W1602	STR												
*	▲	25	19	2340	2W1901	STR											
▲	5	22	2960	2W2201	STR												
	5	16	1730	2W1603	S10	720	290	720									
ABUTMENT #2																	
	16	16	6740	2A1601	STR												
	24	16	5540	2A1602	STR												
	23	16	3360	2A1604	STR												
*	18	16	2360	2A1605	STR												
	6	16	1180	2A1607	STR												
	23	16	900	2A1608	STR												
*	25	22	2040	2A2201	STR												
	17	16	2620	2A1603	17	1440	1180	-									
	17	16	1760	2A1606	S10	660	440	660									
	24	16	3270	2A1609	22	660	1900	660									
	17	22	3220	2A2202	17	1040	2180	-									
WINGWALL #3																	
	6	16	1180	3W1601	STR												
▲	12	16	4060	3W1602	STR												
▲	12	16	2320	3W1603	STR												
	24	22	3140	3W2202	STR												
▲	10	16	2190	3W1604	S10	950	290	950									
	8	16	2540	3W1605	STR												
*	7	22	3810	3W2201	17	890	2920	-									
	5	25	2420	3W2501	17	500	1920	-									
WINGWALL #4																	
*	7	16	1180	4W1601	STR												
▲	12	16	4060	4W1602	STR												
▲	12	16	2320	4W1603	STR												
	24	22	3140	4W2202	STR												
▲	10	16	2190	4W1604	S10	950	290	950									
	8	16	2540	4W1605	STR												
	6	22	3810	4W2201	17	890	2920	-									
	5	25	2420	4W2501	17	500	1920	-									

~ NOTES ~

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-SI). ALL BARS SHALL BE GRADE 420, 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 PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	NOMINAL MASS (kg/m)	NOMINAL DIMENSION ROUND SECTION DIAMETER (mm)	GROSS SECTIONAL AREA (mm²)	PERIMETER (mm)
#10	0.560	9.5	71	29.84
#13	0.994	12.7	129	39.90
#16	1.552	15.9	199	49.95
#19	2.235	19.1	284	60.00
#22	3.042	22.2	387	69.74
#25	3.973	25.4	510	79.80
#29	5.060	28.7	645	90.16
#32	6.404	32.3	819	101.47
#36	7.907	35.8	1006	112.47
#43	11.380	43.0	1452	135.09
#57	20.240	57.3	2581	180.01

PROJECT NAME: **CLARENDON**
 PROJECT NUMBER: **BRO 1443(34)**
 FILE NAME: str1/95j286/sj286ren.xls PLOT DATE: 8/31/2005
 PROJECT LEADER: R. WHITCOMB DRAWN BY: J. GILMORE
 DESIGNED BY: C. CARLSON CHECKED BY: C. CARLSON
 REINFORCING STEEL SCHEDULE SHEET SHEET 33 OF 43