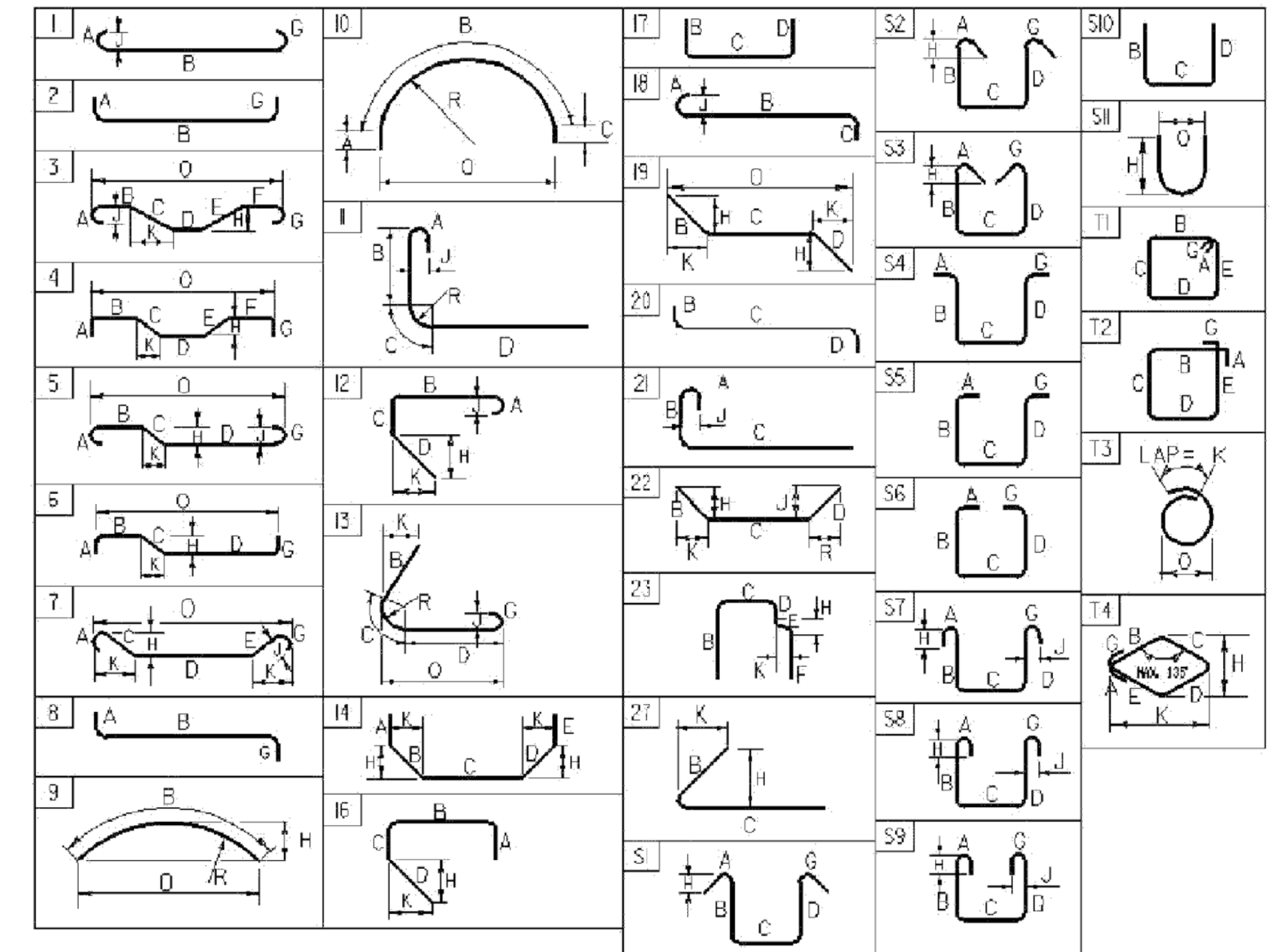


REINFORCING STEEL SCHEDULE

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											
DECK																																														
	195	16	9280	ES1601	STR													11	25	3800	2W2502	STR																								
▲	178	16	9050	ES1602	STR													10	29	3200	2W2901	2	475	2725																						
	178	16	1560	ES1603	S5	155	410	430	410			155						ABUTMENT NO. 2																												
*	90	16	3060	ES1604	S5	155	455	1880	415			155						42	16	6410	2A1601	STR																								
▲	16	16	10000	ES1605	STR													+	42	16	1235	2A1602	STR																							
	60	16	3240	ES1606	S5	155	1390	150	1390			155						82	16	3650	2A1603	STR																								
	50	16	1430	ES1607	16	175	450	205	600				425			425		▲	47	16	4030	2A1604	STR																							
*	5	16	7310	ES1608	STR													56	16	6250	2A1605	STR																								
+	79	19	9280	ES1902	STR													+	14	16	2475	2A1606	STR																							
* ▲	109	19	9050	ES1901	STR													40	16	1795	2A1607	S10		660	475	660																				
△	28	25	920	ES2501	22		460	460	-				325	-	325	-		*	41	25	3550	2A2501	17		1625	1925	-																			
APPROACH SLAB NO.1																																														
+	41	16	7140	1AS1601	STR													△	42	29	3145	2A2901	2	475	2670																					
+	24	16	5850	1AS1602	STR														WING WALL NO. 3																											
△	29	29	6225	1AS2901	1	375	5850							300				18	16	3950	3W1601	STR																								
APPROACH SLAB NO.2																																														
▲	40	16	9690	2AS1601	STR													▲	14	16	5465	3W1603	STR																							
▲	27	16	5850	2AS1602	STR													10	16	2635	3W1604	STR																								
*	3	16	4790	2AS1603	9		4790						270				10575	4745	40	16	2940	3W1605	STR																							
+	3	16	5450	2AS1604	9		5450						335				11075	5395	10	16	1795	3W1606	S10		660	475	660																			
△ ▲	29	29	6225	2AS2901	1	375	5850											2	16	2380	3W1607	STR																								
▲	4	29	450	2AS2902	STR													3	16	1485	3W1608	2	250	1235																						
ABUTMENT NO. 1																																														
	42	16	6905	1A1601	STR													14	16	1320	3W1609	22		660	660	-			505	-	425	-														
+	45	16	1235	1A1602	STR													14	16	4570	3W1610	22		660	3250	660			505	505	425	425														
	92	16	3650	1A1603	STR													12	16	1850	3W1611	22		925	925	-			710	-	595	-														
▲	45	16	4440	1A1604	STR													10	19	3430	3W1901	STR																								
	64	16	6820	1A1605	STR													+	11	22	3150	3W2201	17		1625	1525	-																			
*	22	16	2450	1A1606	STR													9	25	2905	3W2501	2	425	2480																						
	43	16	1795	1A1607	S10		660	475	660									14	29	3250	3W2901	STR																								
+	44	25	3550	1A2501	17		1625	1925	-									18	16	3065	4W1601	STR																								
+	▲	45	25	4440	1A2502	STR												11	16	1235	4W1602	STR																								
△	44	29	3145	1A2901	2	475	2670											▲	11	16	5995	4W1603	STR																							
WING WALL NO.1																																														
▲	12	16	1745	1W1605	STR													7	16	3165	4W1604	STR																								
	2	16	1580	1W1607	STR													42	16	1995	4W1605	STR																								
WING WALL NO.2																																														
	20	16	4325	2W1601	STR													7	16	7775	4W1606	S10		660	475	6640																				
	12	16	1235	2W1602	STR													2	16	1580	4W1607	STR																								
▲	15	16	6145	2W1603	STR													3	16	1485	4W1608	2	250	1235																						
▲	11	16	3005	2W1604	STR													14	16	1320	4W1609	22		660	660				570	-	330	-														
▲	44	16	3370	2W1605	STR													14	16	3905	4W1610	22		660	2880	365			570	315	330	185														
	12	16	1795	2W1606	S10		660	475	660									14	16	1260	4W1611	22		630	630	-			545	-	315	-														
	2	16	2750	2W1607	STR													7	19	3430	4W1901	STR																								
	3	16	1485	2W1608	2	250	1235											6	22	3150	4W2201	17		1625	1525	-																				
	15	16	1320	2W1609	22		660	660	-				570	-	330	-		6	25	2905	4W2501	2	425	2480																						
	15	16	4200	2W1610	22		660	2880	660				570	570	330	330		II	29	3250	4W2901	STR																								
	14	16	1260	2W1611	22		370	890	-				320	-	185	-																														
	11	25	3650	2W2501	17		1725	1925	-																																					

~ 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 M31M (ASTM A 615M-S). 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 BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	NOMINAL MASS (kg/m)	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER (mm)	CROSS 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