

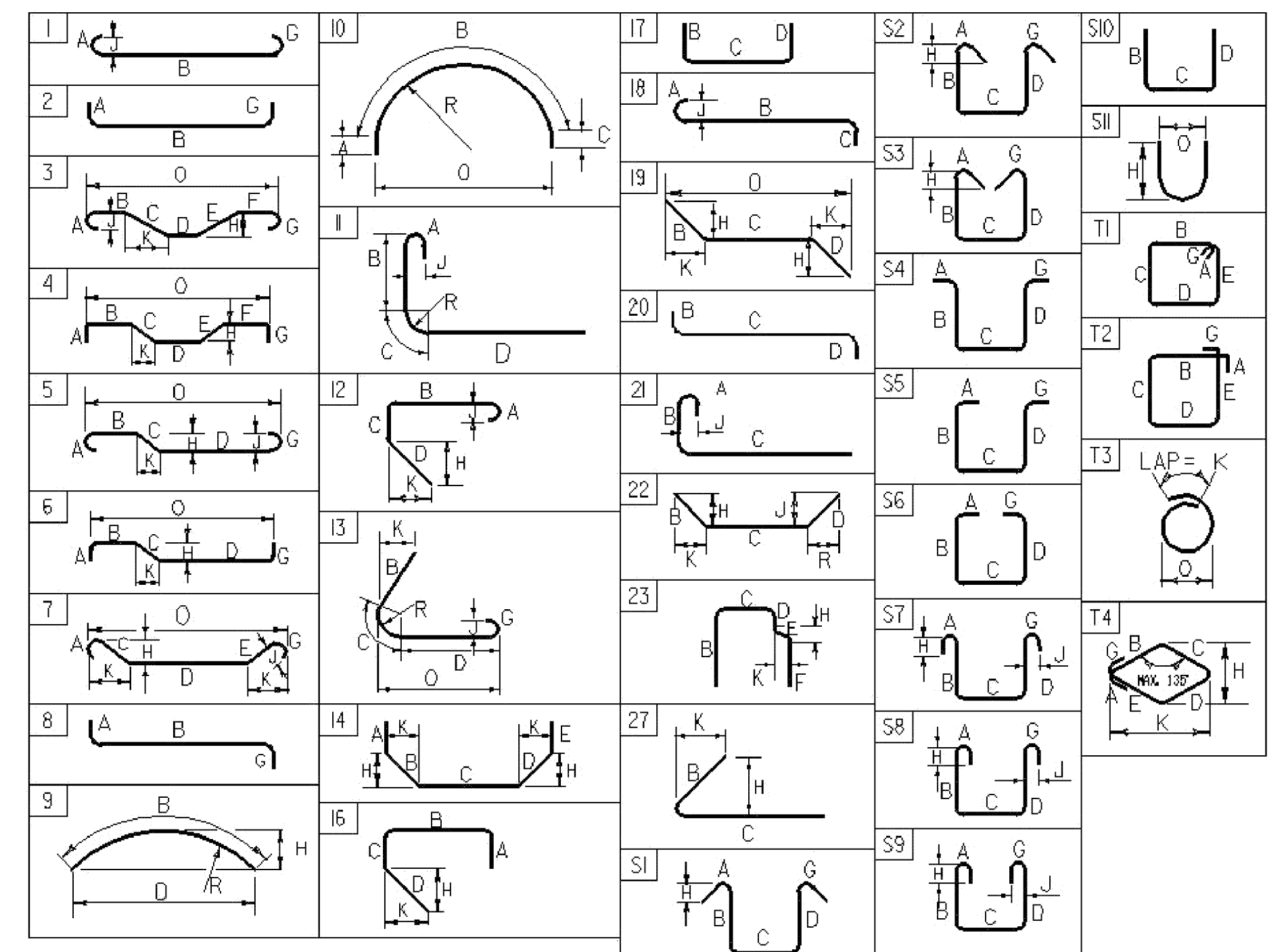
REINFORCING STEEL SCHEDULE



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
SLAB																																			
*	28	16	700	ES1601	STR																														
	47	19	6240	ES1901	STR																														
*	92	16	3400	ES1602	S6	300	500	1800	500			300																							
	44	32	8210	ES3201	1	425	13340					---		335																					
ABUTMENT 1																		ABUTMENT 2																	
	22	16	10734	1A1601	STR													22	16	10734	2A1601	STR													
▲	26	16	3477	1A1603	STR													▲	26	16	3929	2A1603	STR												
▲	26	16	2227	1A1604	STR													*	29	16	3747	2A1605	STR												
▲	26	16	3744	1A1606	STR													▲	8	16	4789	2A1606	STR												
▲	8	16	4337	1A1607	STR													▲	28	16	6905	2A1607	STR												
▲	6	16	3087	1A1608	STR																														
▲	26	16	6904	1A1609	STR																														
	34	16	3020	1A1602	17		1190	1830	---									▲	34	16	3020	2A1602	17		1190	1830	---								
	36	16	1230	1A1605	17		450	330	450									▲	36	16	1230	2A1604	17		450	330	450								
▲	18	16	1954	1A1610	19		977	977	---					691		691		▲	18	16	1954	2A1608	19		977	977	---				691		691		
*	33	19	2920	1A1901	17		1450	1470	---									▲	32	19	2810	2A1901	17		1340	1470	---								
	32	22	1910	1A2202	STR													▲	32	19	4790	2A1902	STR												
	33	22	3050	1A2201	17		1580	1470	---																										
	14	25	910	1AE2501	STR																														
	37	29	2970	1A2901	STR													*	38	29	2970	2A2901	STR												
WINGWALL 1																		WINGWALL 3																	
	17	16	2873	1W1601	STR													17	16	3031	3W1601	STR													
▲	9	16	1190	1W1602	STR													▲	12	16	1190	3W1602	STR												
▲	9	16	4337	1W1603	STR													▲	12	16	4900	3W1603	STR												
▲	9	16	2047	1W1604	STR													▲	11	16	2609	3W1604	STR												
▲	30	16	2411	1W1606	STR													▲	34	16	3048	3W1606	STR												
	5	16	930	1W1605	17		300	330	300									6	16	930	3W1605	17		300	330	300									
*	3	16	2351	1W1607	19		411	1940	---					55		407		2	16	3028	3W1607	19		406	2622	---			17		405				
	39	16	1320	1W1608	19		660	660	---					470		470		45	16	1320	3W1608	19		660	660	---			470		470				
	9	22	2950	1W2202	STR													*	13	22	2950	3W2202	STR												
	9	22	3000	1W2201	17		1600	1400	---																										
*	12	25	3200	1W2502	STR																														
	9	25	3580	1W2501	17		2180	1400	---																										
	11	29	3200	1W2901	STR																														
WINGWALL 2																		WINGWALL 4																	
	17	16	4469	2W1601	STR													17	16	2573	4W1601	STR													
▲	14	16	1190	2W1602	STR													▲	8	16	1190	4W1602	STR												
▲	14	16	4027	2W1603	STR													▲	8	16	4723	4W1603	STR												
▲	14	16	1737	2W1604	STR													▲	8	16	2433	4W1604	STR												
▲	28	16	3926	2W1606	STR													▲	32	16	2031	4W1606	STR												
	8	16	930	2W1605	17		300	330	300									5	16	930	4W1605	17		300	330	300									
	2	16	3951	2W1607	19		406	3545	---					48		403		2	16	2133	4W1607	19		411	1722	---			140		387				
	36	16	1320	2W1608	19		660	660	---					470		470		45	16	1320	4W1608	19		660	660	---			470		470				
	14	22	2950	2W2202	STR													*	9	22	2950	4W2202	STR												
	14	22	3000	2W2201	17		1600	1400	---																										
	16	25	3200	2W2502	STR																														
	14	25	3580	2W2501	17		2180	1400	---																										
*	17	29	3200	2W2901	STR																														

~ 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 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

PROJECT NAME: **CHITTENDEN**
 PROJECT NUMBER: **STP 1443(45) (BRIDGE 19)**
 FILE NAME: 96j236/str/96j236rss1.xls PLOT DATE: 8/13/2009
 PROJECT MANAGER: **C. CARLSON** DRAWN BY: **C. WEEBER**
 DESIGNED BY: **K. UPMAL** CHECKED BY: **C. CARLSON**
REINFORCING STEEL SCHEDULE SHEET **40** OF **81**