ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
				SUPERSTRUCTURE													
				GRADE 60													
4	238	5	27-9	S501	STR												
5	107	↑	16-3	S504	↑												
6	107		20-4	S503													
7	107		20-4	S505													
8	16		16-3	S510	↓												
9	12		20-4	S511	STR												
11	107		16-10	S502	1	0-7	16-3										
12	4		20-3	S512	19		1-3	19-0				0-4		1-2			
				GRADE 40													
16	54		4-3	S506	S5	0-6	1-3	0-9	1-3		0-6						
17	54		9-3	S507	S6	1-0	1-2	4-8	1-5		1-0						
18	54		5-1	S508	S6	0-6	1-3	1-6	1-4		0-6						
19	40	5	7-7	S509	S5	0-6	3-0	0-7	3-0		0-6						
				ABUTMENT #1													
				GRADE 60													
26	37	5	3-0	1A501	STR												
27	4	↑	19-9	1A503A	↑	▲											
28	4		19-7	1A503B	↓	▲											
29	2		4-6	1A504	STR												
				GRADE 40													
33	37	5	3-9	1A502	S10	▲	1-1	1-7	1-1								
				WINGWALL #1													
				GRADE 60													
40	10	5	7-0	1W501	STR	▲											
41	7	5	4-0	1W503	STR	▲											
				GRADE 40													
45	✱9	5	10-5	1W502	S10	▲	4-8	1-1	4-8								
				WINGWALL #2													
				GRADE 60													
52	8	5	20-0	2W501	STR	▲											
53	18	↑	4-0	2W503	STR												
55	4		23-0	2W504	19	▲	1-0	22-0				0-11		0-4			
				GRADE 40													
59	18	5	12-1	2W502	S10	▲	5-6	1-1	5-6								
				RETAINING WALL @ WW#1													
				GRADE 60													
66	15	5	18-6	RW501	STR	▲											
67	✱20	5	10-9	RW503	STR	▲											
69	19	5	5-6	RW504	17			2-6	3-0								
				GRADE 40													
73	19	5	2-11	RW502	S10		0-9	1-2	1-0								
75	37	6	1-8	RW601	22		0-3	0-9	0-8			0-4		0-7			

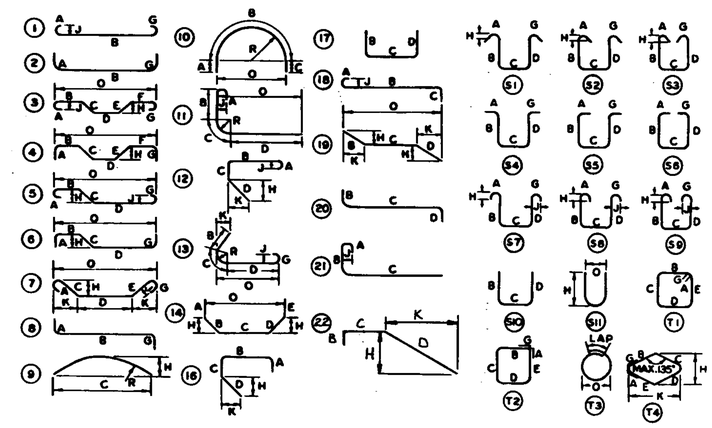
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
				ABUTMENT #2													
				GRADE 60													
84	33	5	3-2	2A501	STR												
85	4	↑	22-1	2A503A	↑	▲											
86	2		17-9	2A503C													
87	2		4-6	2A504													
88	8		5-8	2A505A													
89	1		4-4	2A505B													
90	4		4-7	2A506	↓												
91	4		9-11	2A507	STR												
93	2		3-6	2A509	19		1-6	2-0					0-9		1-4		
				GRADE 40													
97	33		3-11	2A502	S10	▲	1-2	1-7	1-2								
98	2	↓	19-2	2A503B	19		5-8	13-6					0-11		5-7		
99	4	5	10-0	2A508	T1	0-6	2-2	2-4	2-2	2-4		0-6					
101	8	6	2-6	2A601	22		0-3	0-9	1-6				0-9		1-4		
				WINGWALL #3													
				GRADE 60													
108	6	5	20-0	3W501	STR	▲											
109	18	↑	2-7	3W502	↑												
110	18		3-9	3W503													
111	18		13-9	3W505		▲											
112	16	↓	6-4	3W506	STR	▲											
114	18	5	6-4	3W504	17		3-9	2-7									
116	16	6	3-6	3W602	19		1-6	2-0									
				GRADE 40													
120	10	5	20-0	3W507	STR	●/▲											
121	4	↑	20-0	3W508	↑	●/▲											
122	3		20-0	3W509		●/▲											
123	4	↓	20-0	3W510	STR	●/▲											
125	8	5	3-7	3W511	S10		1-0	1-7	1-0								
127	32	6	2-6	3W601	22		0-3	0-9	1-6				0-9		1-4		
				WINGWALL #4													
				GRADE 60													
134	14	5	11-0	4W501	STR	▲											
135	11	5	4-0	4W503	STR	▲											
				GRADE 40													
139	11	5	12-9	4W502	S10	▲	5-10	1-1	5-10								

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161																	
162																	
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
176																	
177																	
178																	
179																	
180																	

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.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

TYPICAL BAR BENDS



NOTES

1. 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 615-81) GRADE 60, OR GRADE 40 AS NOTED.
2. 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."
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

▲ - Indicates Cut to Fit in Field.
● - Indicates Bend to Fit in Field
✱ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

REV. NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF MONTGOMERY	BRIDGE NO. 15
	LOG STA. 269+30
HIGHWAY NO. VT. RTE. 118	SURV. STA. Rev 55+628
VT. RTE. 118 over TROUT RIVER	
REINFORCING STEEL SCHEDULE	
DESIGNED BY K.R. SIKORA	DRAWN BY K.R. SIKORA
CHECKED BY E.L. Blodgett DATE 9/84	BRIDGE DESIGN SUPERVISOR F.W. Bolkum DATE 12/84
PROJECT MONTGOMERY	PROJECT NO. BHS 0283(6)S
BRIDGE SHEET NO.	SHEET 17 OF 46

BR-5