ABUTMENT 1

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1																	
2	8	11	23-11	1A1101	STR												
3																	
4	16	5	23-8	1A501	STR												
5	16	5	23-8	1A502	STR	▲											
6	42	5	6-6	1A503	STR	*											
7	5	5	5-6	1A504	STR	▲											
8																	
9	42	6	6-6	1A601	STR	*											
10	5	6	5-6	1A602	STR	▲											
11	41	6	8-6	1A603	17		0-0	3-6	5-0								
12																	
13	45	5	3-9	1A505	STR												
14	25	5	6-7	1A509	STR	▲*											
15	17	5	7-8	1A510	19		0-0	3-6	4-2				2-11¼		2-11¼		
16	6	5	23-10	1A511	STR												
17	13	5	20-0	1A512	STR	▲											
18	38	5	6-9	1A513	17		1-0	4-9	1-0								
19	17	5	6-6	1A514	12	0-7	1-9	4-2	0-0				0-0	0-5	0-0		
20	19	5	7-2	1A515	STR												
21	7	5	4-7½	1A516	12	0-0	2-0	0-7½	2-0				1-5¾	0-0	1-4		
22	8	5	4-0	1A517	12	0-0	2-0	0-0	2-0				1-5¾	0-0	1-4		
23	19	5	5-7	1A518	17	▲*	0-0	0-9	4-10	(CUT DIM "D" TO FIT)							
24	12	5	18-10	1A519	STR	▲											
25																	
26	40	8	5-3	1A801	19	*	0-0	3-0	2-3				1-7⅛		1-7⅛		
27																	
28	6	5	5-6	1A520	12	0-0	2-0	1-6	2-0			0-0	1-5¾	0-0	1-4		
29	6	5	4-0	1A521	12	0-0	2-0	0-0	2-0			0-0	1-5¾	0-0	1-4		
30	22	5	5-1	1A522	STR	▲*											
31	23	5	6-2	1A523	19		0-0	2-0	4-2				2-11¼		2-11¼		
32	5	5	22-6	1A524	STR												
33	12	5	25-2	1A525	STR												
34	23	5	6-6	1A526	12	0-7	1-9	4-2	0-0	▲			0-0	0-5	0-0		
35	22	5	7-1	1A527	STR												
36	6	5	4-0	1A528	19		0-0	2-0	2-0				1-5¾		1-4		
37	7	5	4-0	1A529	19		0-0	2-0	2-0				1-5¾		1-4		
38	23	5	5-7	1A530	17	▲*	0-0	0-9	4-10	(CUT DIM "D" TO FIT)							
39	12	5	25-2	1A531	STR												
40	6	5	6-0	1A532	22		2-0	2-0	2-0				1-5¾		1-4		
41	6	5	4-0	1A533	19		0-0	2-0	2-0				1-5¾		1-4		
42																	
43				WINGWALL 1													
44																	
45	27	5	3-6	1A505	STR												
46	14	5	26-2	1A506	STR	▲											
47	20	5	5-6	1A507	STR												
48																	
49	20	6	5-6	1A604	STR												
50	11	6	6-0	1A605	17		0-0	2-6	3-6								
51	11	6	10-0	1A606	17		0-0	2-6	7-6								
52																	
53	4	11	26-2	1A1102	STR	▲											
54																	
55	6	5	6-7	1W501	STR	*											
56	22	5	8-10	1W502	STR												
57																	
58	12	6	9-5	1W601	STR	*											
59																	
60	7	5	25-9	1W503	STR												
61	7	5	23-8	1W504	STR												
62	3	5	5-1	1W505	STR	*											
63																	
64	2	6	5-1	1W602	STR	*											
65																	
66	20	5	6-1	1W506	STR	▲											
67																	
68	10	6	6-1	1W603	STR	▲											
69																	
70	5	5	20-6	1W507	STR												
71	5	5	20-3	1W508	STR												
72	2	5	18-5	1W509	STR												
73	20	5	7-0	E1W510	17		3-0	1-0	3-0								
74	4	5	18-5	E1W511	STR												
75																	
76																	
77																	
78																	
79																	
80																	

WINGWALL 2

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
81																	
82	22	5	3-6	1A505	STR												
83	22	5	5-6	1A507	STR												
84	14	5	22-1	1A508	STR												
85																	
86	22	6	5-6	1A604	STR												
87	10	6	6-0	1A605	17		0-0	2-6	3-6								
88	10	6	10-0	1A606	17		0-0	2-6	7-6								
89																	
90	4	11	22-1	1A1103	STR												
91																	
92	2	5	4-4	2W501	STR	*											
93	21	5	6-8	2W502	STR												
94																	
95	11	6	7-3	2W601	STR	*											
96																	
97	6	5	21-8	2W503	STR												
98	6	5	19-9	2W504	STR												
99	3	5	5-0	2W505	STR												
100	18	5	6-0	2W506	STR	▲											
101																	
102	1	6	5-0	2W602	STR												
103	9	6	6-0	2W603	STR	▲											
104																	
105	5	5	19-6	2W507	STR												
106	5	5	17-10	2W508	STR												
107	2	5	17-8	2W509	STR												
108	19	5	7-0	E2W510	17		3-0	1-0	3-0								
109	4	5	17-8	E2W511	STR												
110																	
111				ABUTMENT 2													
112																	
113	4	11	18-10	2A1101	STR												
114	4	11	17-4	2A1103	STR												
115																	
116	20	5	18-10	2A501	STR												
117	22	5	4-6	2A502	STR	*											
118																	
119	20	7	9-3	2A701	STR	*											
120	38	8	9-3	2A801	STR	*											
121	33	9	10-8	2A901	17	*	0-0	4-0	6-8								
122	7	9	10-5	2A902	17		0-0	3-9	6-8								
123																	
124	18	5	8-9	2A506	STR												
125	8	5	7-6	2A507	STR												
126	18	5	17-4	2A508	STR												
127	19	5	4-3	2A509	STR												
128	6	5	5-6	2A510	STR												
129	12	5	6-9	2A511	STR												
130																	
131	14	9	10-5	2A903	17		0-0	4-0	6-5								
132	3	9	11-10	2A904	17		0-0	5-5	6-5	(CUT DIM. "C" TO FIT)							
133	19	6	7-6	2A602	STR	*											
134	18	7	7-6	2A703	STR												
135	19	5	18-8	2A512	STR	▲											
136																	
137	17	9	18-8	2A905	STR	▲											
138	20	9	11-0	2A906	STR	*											
139																	
140	7	5	16-0	2A513	STR												
141	7	5	15-0	2A514	STR												
142	11	5	18-0	2A515	STR												
143	14	5	17-0	2A516	STR												
144	6	5	18-0	E2A517	STR												
145	34	5	6-2	E2A518	17	*	1-0	4-2	1-0								
146	2	5	26-5	2A519	STR												
147																	
148	3	9	26-5	2A907	STR												
149																	
150	26	5	5-8	2A520	12	0-7	1-9	3-4	0-0					0-0	0-5	0-0	
151	19	5	8-5	2A521	19		0-0	6-5	2-0					1-10¼		0-9	
152	19	5	7-1	2A522	19		0-0	5-1	2-0					1-10¼		0-9	
153	12	5	9-0	E2A523	STR												
154	12	5	7-3	E2A524	17	▲	0-0	0-9	6-6	(CUT DIM "D" TO FIT)							
155	7	5	9-6	2A525	STR												
156	5	5	7-9	2A526	17	▲	0-0	0-9	7-0	(CUT DIM "D" TO FIT)							
157	6	5	19-4	E2A527	STR												
158	6	5	18-0	E2A528	STR												
159																	
160																	

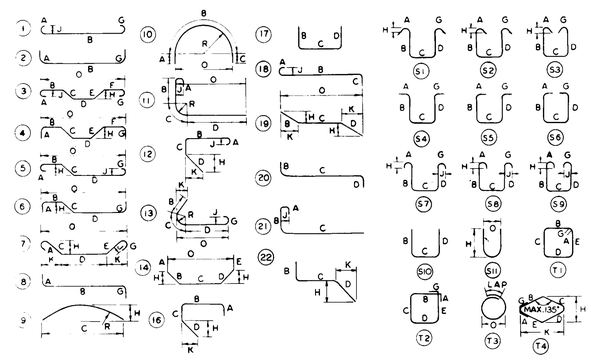
ABUTMENT 2 CONTINUED

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161																	
162	6	5	5-9	2A529	19		0-0	3-9	2-0				1-10¼		0-9		
163	6	5	5-8	2A530	19		0-0	3-8	2-0				1-10¼		0-9		
164	2	5	6-3	2A531	19		0-0	3-9	2-6				2-4		0-11		
165	2	5	6-7	2A532	19		0-0	3-8	2-11				2-8½		1-1		
166	2	5	5-9	2A533	17		2-0	1-9	2-0								
167	4	5	16-0	E2A534	STR												
168	2	5	1-6	2A535	STR												
169	20	5	10-7	2A536	STR	▲*											
170																	
171	10	9	10-7	2A908	STR	▲*											
172	8	9	8-0	2A909	STR												
173																	
174	22	5	16-1	2A537	STR												
175	6	5	16-1	E2A538	STR												
176	6	5	5-8	2A539	17		0-0	2-0	3-8								
177	6	5	6-1	2A540	19	▲	2-0	2-1	2-0	(CUT DIM "D" TO FIT)			1-4⅞		1-4⅞		
178	5	5	6-8	2A541	19		2-0	2-8	2-0				2-0		0-0		
179	6	5	6-1	2A542	19		2-0	2-1	2-0				1-4⅞		1-4⅞		
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



SEE WRITTEN ORDER # 102 FOR REINF. STEEL CHANGES.

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-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
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.

▲ DENOTES BARS TO BE CUT IN FIELD.
* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
△ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.

REV NO.	MADE BY	DATE	DESCRIPTION
	AS BUILT	5/13/94	SG

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF ESSEX	BRIDGE NO. 14
HIGHWAY NO. VT. RTE. 289	LOG STA.
	SURV. STA. RAMP 15+00

VT. RTE. 289 "RAMP A" OVER CVRR

REINFORCING STEEL SCHEDULE-1

DESIGNED BY ———	DRAWN BY RFU
CHECKED BY RJS DATE 10/12/90	BRIDGE DESIGN SUPERVISOR MWO DATE 10/12/90
PROJECT WILLISTON - COLCHESTER	PROJECT NO. PB 033-1 (2)

BRIDGE SHEET NO. BR631 SHEET 220 OF 400