Metric

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
			ABUTMENT 1														
1																	
2	40	25	1300	IEA2501△	12		0	1000	300				210	0	210		1210
3																	
4																	
5																	
6	229	16	5050	IA1601 △	STR												
7	72	16	11605	IA1602	STR												
8	98	16	1425	IA1603	STR												
9	46	16	4540	IA1604	2	0	4290					250					
10	64	16	4630	IA1605	2	0	4380					250					
11	60	16	4700	IA1606	2	0	4450					250					
12	24	16	5780	IA1607	STR												
13	24	16	2800	IA1608▲	STR												
14	24	16	10100	IA1609	STR												
15	32	16	2845	IA1610 ▲	STR												
16	24	16	8540	IA1611	STR												
17	81	16	2775	IA1612	17		600	1575	600								
18	32	16	2975	IA1613 ▲	STR												
19	20	16	3845	IA1614	12		0	3245	600				385	0	460		3705
20	10	16	2290	IA1615	12		0	1690	600				385	0	460		2150
21	3	16	5520	IA1616	STR												
22	4	16	5685	IA1617	STR												
23	20	16	3345	IA1618	12		0	2745	600				300	0	520		3265
24	10	16	6090	IA1619	14	0	600	4890	600	0			300		520		5930
25	2	16	3750	IA1620	2	175	3575					0		130			
26	26	16	2675	IA1621 ▲	STR												
27	32	16	2675	IA1622▲	STR												
28	34	16	2650	IA1623▲	STR												
29	18	16	7460	IA1624▲	STR												
30	18	16	10140	IA1625▲	STR												
31	18	16	9115	IA1626▲	STR												
32	25	16	2075	IA1627▲	STR												
33	32	16	2075	IA1628▲	STR												
34	32	16	2050	IA1629▲	STR												
35	75	16	1775	IA1630	17		600	575	600								
36	75	16	2175	IA1631	17		950	275	950								
37	9	16	2575	IA1632	17		1000	575	1000								
38	16	16	2635	IA1633	12		0	2035	600				385	0	460		2495
39	8	16	2475	IA1634	17		1000	474	1000								
40	16	16	2265	IA1635	12		0	1665	600				300	0	520		2185
41	8	16	2030	IA1636	12		0	1430	600				385	0	460		1890
42	2	16	2830	IA1637	12		0	1555	1275				820	0	975		2530
43	2	16	1985	IA1638	12		0	1085	900				580	0	690		1775
44	2	16	2865	IA1639	12		0	1665	1200				600	0	1040		2705
45	2	16	2475	IA1640	12		0	1250	1225				615	0	1060		2310
46																	
47																	
48																	
			WINGWALL 1														
49																	
50	47	25	4640	IW2501△	2	0	4265					375					
51	23	25	2655	IW2502▲	STR												
52	110	19	2450	IW1901	STR												
53	18	16	10685	IW1601	STR												
54	25	16	1425	IW1602△	STR												
55	23	16	3445	IW1603	STR												
56	23	16	2655	IA1605▲	STR												
57	32	16	6570	IA1604	STR												
58	6	16	6570	IA1606▲	STR												
59	2	16	6605	IW1607	12		0	6360	245				40	0	240		6600
60	23	16	1675	IW1608	17		600	475	600								
61																	
62																	
63																	
64																	
			WINGWALL 2														
65																	
66	27	25	4825	2W2501△	2	0	4450					375					
67	13	25	2660	2W2502▲	STR												
68	18	16	7260	2W1601	STR												
69	15	16	1200	2W1602△	STR												
70	77	19	2450	2W1907	STR												
71	13	16	3625	2W1603	STR												
72	13	16	2660	2W1605▲	STR												
73	32	16	3453	2W1604	STR												
74	10	16	3453	2W1606▲	STR												
75	2	16	2905	2W1607	12		0	2660	245				40	0	240		2900
76	13	16	1675	2W1608	17		600	475	600								
77																	
78																	
79																	
80																	

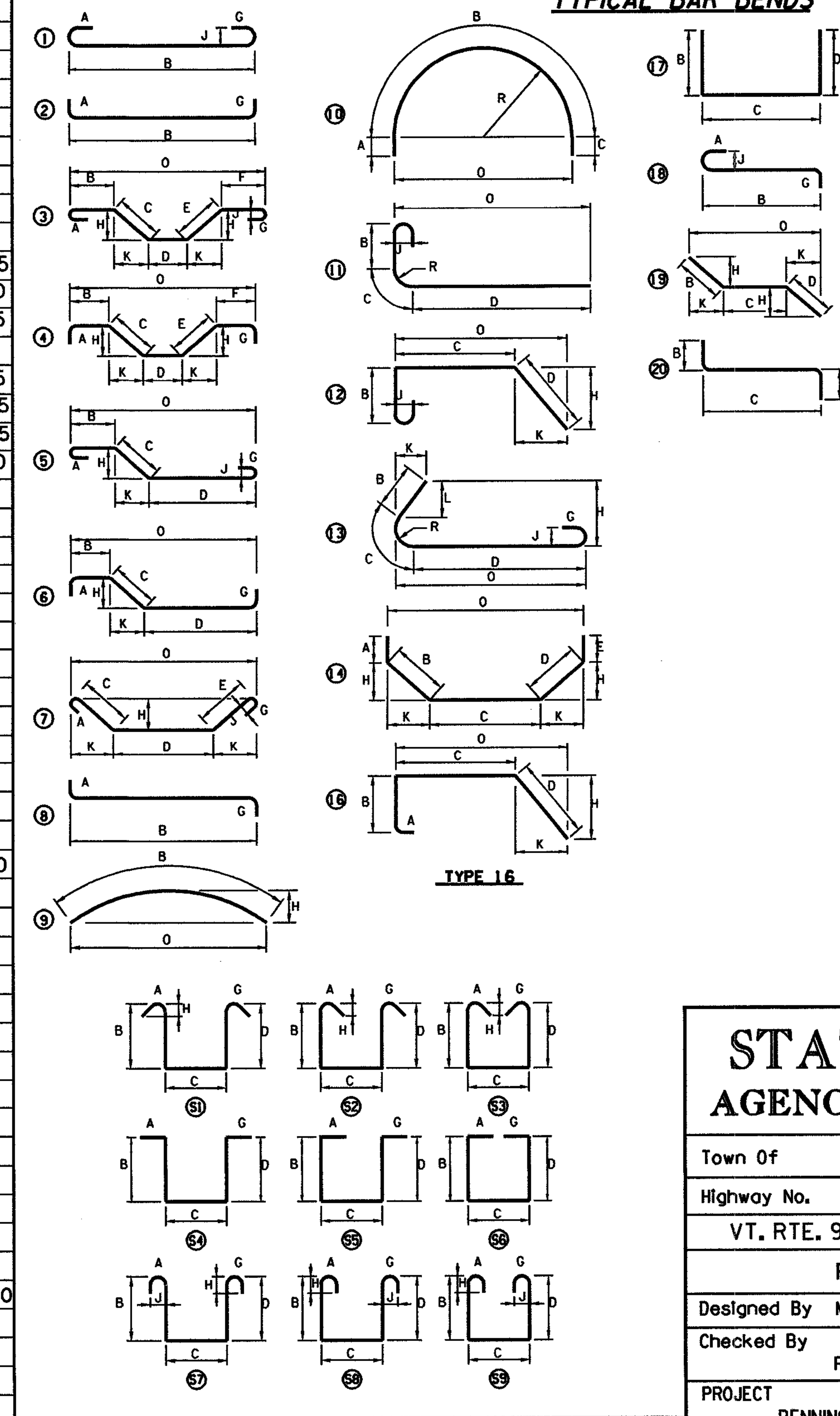
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
			ABUTMENT 2														
81																	
82	42	25	1300	2EA2502△	12		0	1000	300				210	0	210		1210
83																	
84	167	19	3550	2A1901 △	STR												
85																	
86	59	19	5090	2A1902	2	300	4790					0					
87	79	19	5745	2A1903	2	300	5445					0					
88	46	19	5390	2A1904	2	300	5090					0					
89																	
90	84	16	3550	2A1601	STR												
91	60	16	12500	2A1602	STR												
92	84	16	1500	2A1603	STR												
93	34	16	9050	2A1604▲	STR												
94	30	16	4140	2A1605▲	STR												
95	34	16	12340	2A1606	STR												
96	40	16	7950	2A1607▲	STR												
97	34	16	6525	2A1608▲	STR												
98	25	16	3985	2A1609▲	STR												
99	30	16	3845	2A1610	12		0	3245	600				385	0	460		3705
100	15	16	2290	2A1611	12		0	1690	600				385	0	460		2150
101	84	16	2775	2A1612	17		600	1575	600								
102	3	16	6680	2A1613	STR												
103	30	16	3345	2A1615	12		0	2745	600				300	0	520		3265
104	15	16	6090	2A1616	14	0	600	4890	600	0			300		520		5410
105	2	16	3750	2A1617	STR												
106	31	16	2870	2A1618 ▲	STR												
107	39	16	2825	2A1619 ▲	STR												
108	26	16	2670	2A1620▲	STR												
109	16	16	9140	2A1621 ▲	STR												
110	16	16	12335	2A1622	STR												
111	16	16	6810	2A1623▲	STR												
112	31	16	2270	2A1624 ▲	STR												
113	39	16	2225	2A1625 ▲	STR												
114	24	16	2070	2A1626 ▲	STR												
115	81	16	1775	2A1627	17		600	575	600								
116	81	16	2175	2A1628	17		950	275	950								
117	10	16	2575	2A1629	17		1000	575	1000								
118	16	16	2635	2A1630	12		0	2035	600				385	0	460		2495
119	8	16	2030	2A1631	12		0	1430	600				385	0	460		1890
120	16	16	2265	2A1632	12		0	1665	600				300	0	520		2185
121	5	16	2475	2A1633	17		1000	475	1000								
122	2	16	2495	2A1634	12		0	1220	1275				820	0	975		2195
123	2	16	2475	2A1635	12		0	1575	900				580	0	690		2265
124	2	16	2865	2A1636	12		0	1665	1200				600	0	1040		2705
125	2	16	2475	2A1637	12		0	1250	1225				615	0	1060		2310
126																	
127																	
128																	
			WINGWALL 3														
129																	
130	28	29	5475	3W2901△	2	0	5000					475					
131	92	22	2450	3W2201△	STR												
132																	
133	22	16	8860	3W1601	STR												
134	22	16	1200	3W1602	STR												
135	20	16	3750	3W1603	STR												
136	32	16	5600	3W1604	STR												
137	46	16	2610	3W1605▲	STR												
138	14	16	5300	3W1606▲	STR												
139	2	16	5200	3W1607	12		0	4950	250				55	0	200		5150
140	20	16	1625	3W1608	17		600	425	600								
141																	
142																	
143																	
			WINGWALL 4														
144																	
145	42	29	5675	4W2901△	2	0	5200					475					
146	113	22	2450	4W2201 △	STR												
147																	
148	18	16	11024	4W1601	STR												
149	30	16	1200	4W1602	STR												
150	30	16	3750	4W1603	STR												
151	28	16	8665	4W1604	STR												
152	70	16	4532	4W1605▲	STR												
153	12	16	4620	4W1606▲	STR												
154	2	16	4350	4W1607	12		0	4100	250				55	0	200		4300
155	30	16	1675	4W1608	17		600	475	600								
156																	
157																	
158																	
159																	
160																	

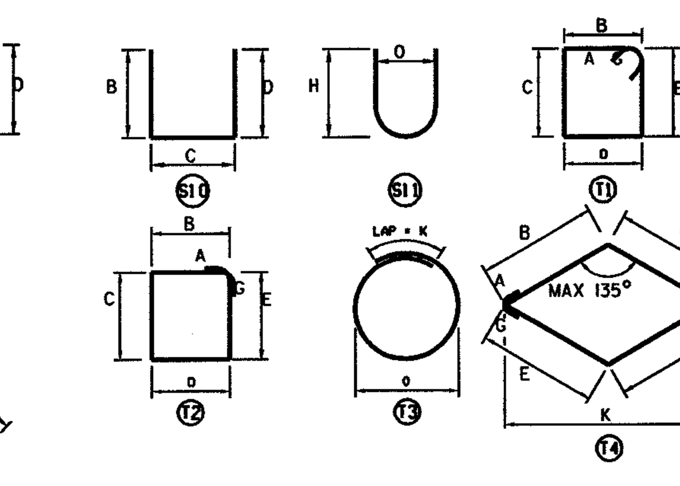
NOTES:

1. *UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING #57M SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M31M (ASTM A615-S1). ALL BARS SHALL BE GRADE 420, UNLESS OTHERWISE NOTED.*
2. *FOR TYPICAL BAR BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS, 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.*
8. *BAR MARKS WITH AN "E" INDICATE EPOXY COATED REINFORCEMENT.*

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

TYPICAL BAR BENDS





ASTM STANDARD METRIC REINFORCING BARS			
BAR SIZE DESIGNATION	NOMINAL DIMENSIONS		
	MASS (kg/m)	DIAMETER (mm)	AREA (mm²)
#10M	0.560	9.5	71
#13M	0.994	12.7	129
#16M	1.552	15.9	199
#19M	2.235	19.1	284
#22M	3.042	22.2	387
#25M	3.973	25.4	510
#29M	5.060	28.7	645
#32M	6.404	32.3	819
#36M	7.907	35.8	1006
#43M	11.38	43.0	1452
#57M	20.24	57.3	2581

CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS
III WINNERS CIRCLE ALBANY, NEW YORK, 12205

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON | Bridge No. BR700 | Log Sta.
Highway No. VT. RTE. 9 | Surv. Sta. 16+800

VT. RTE. 9 OVER SILK ROAD AND WALLOOMSAC RIVER

REINFORCING STEEL SCHEDULE - I

Designed By M. GOGUEN | Drawn by J. HOTALING/B.WEATHERBY
Checked By R. SIPZNER Date 6/00 | Bridge Design Supervisor M. OLSTAD Date 9/00

PROJECT BENNINGTON-HOOSICK | PROJECT NO. D.P.I. 0146(1) C/4

I.G.C. Info.

Bridge Sheet No. BR763 | Sheet 246 OF 385

U:/3573/15/BR700/BARLIST1/6.14.00/BW/ 1:10m