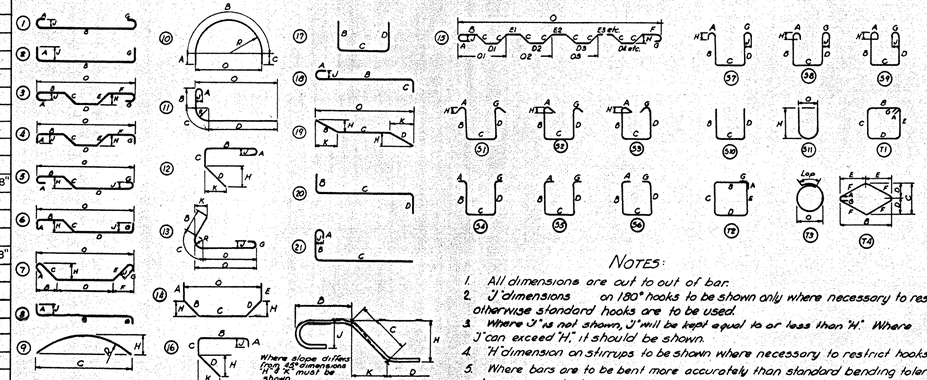
Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
				PIER A													
1	94*	4	10'-4"	PA401	T3											2'-8"	
2	12	4	5'-11"	PA402	S10		2'-6"	0'-11"	2'-6"								
3	48	5	11'-4"	PA501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"		0'-4"					
4	2	6	30'-0"	PA601	STR.												
5	6	6	9'-10"	PA602	S11								3'-10"			3'-8"	
6	15	6	33'-6"	PA603	STR.												
7	52*	6	9'-6"	PA604	STR.												
8	15	8	33'-6"	PA801	STR.												
9	51	8	9'-6"	PA802	STR.												
10	10	10	19'-0"	PA1001	STR.												
11	8	10	11'-0"	PA1002	20			8'-4"	2'-8"								
12	6*	10	16'-3"	PA1003	STR.												
13	10	10	15'-8"	PA1004	20			13'-0"	2'-8"								
14	49*	11	33'-5"	PA1101	STR.												
15	48	11	9'-0"	PA1102	20			8'-0	1'-0"								
16																	
17																	
18																	
19				PIER B													
20	90	4	10'-4"	PB401	T3											2'-8"	
21	12	4	5'-11"	PB402	S10		2'-6"	0'-11"	2'-6"								
22	48	5	11'-4"	PB501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"		0'-4"					
23	2	6	30'-0"	PB601	STR.												
24	6	6	9'-10"	PB602	S11								3'-10"			3'-8"	
25	15	6	33'-6"	PB603	STR.												
26	51	6	9'-6"	PB604	STR.												
27	15	8	33'-6"	PB801	STR.												
28	51	8	9'-6"	PB802	STR.												
29	10	10	19'-0"	PB1001	STR.												
30	18	10	11'-0"	PB1002	20			8'-4"	2'-8"								
31	5	10	16'-3"	PB1003	STR.												
32	10	10	15'-8"	PB1004	20			13'-0"	2'-8"								
33	48	11	32'-2"	PB1101	STR.												
34	48	11	9'-0"	PB1102	20			8'-0"	1'-0"								
35																	
36																	
37																	
38																	
39				PIER C													
40	96	4	10'-4"	PC401	T3											2'-8"	
41	48	5	11'-4"	PC501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"		0'-4"					
42	2	6	30'-0"	PC601	STR.												
43	6	6	9'-10"	PC602	S11								3'-10"			3'-8"	
44	15	6	33'-6"	PC603	STR.												
45	51	6	9'-6"	PC304	STR.												
46	15	8	33'-6"	PC801	STR.												
47	51	8	9'-6"	PC802	STR.												
48	10	10	19'-0"	PC1001	STR.												
49	8	10	11'-0"	PC1002	20			8'-4"	2'-8"								
50	5	10	16'-3"	PC1003	STR.												
51	10	10	15'-8"	PC1004	20			13'-0"	2'-8"								
52	48	11	34'-3"	PC1101	STR.												
53	48	11	9'-0"	PC1102	20			8'-0"	1'-0"								
54																	
55																	
56																	
57																	
58				PIER D													
59	93	4	10'-4"	PD401	T3											2'-8"	
60	48	5	11'-4"	PD501	T1	0'-4"	2'-8"	2'-8"	2'-8"		0'-4"						
61	2	6	30'-0"	PD601	STR.												
62	6	6	9'-10"	PD602	S11								3'-10"			3'-8"	
63	15	6	33'-6"	PD603	STR.												
64	51	6	9'-6"	PD604	STR.												
65	15	8	33'-6"	PD801	STR.												
66	51	8	9'-6"	PD802	STR.												
67	10	10	19'-0"	PD1001	STR.												
68	8	10	11'-0"	PD1002	20			8'-4"	2'-8"								
69	5	10	16'-3"	PD1003	STR.												
70	10	10	15'-8"	PD1004	20			13'-0"	2'-8"								
71	48	11	33'-1"	PD1101	STR.												
72	48	11	9'-0"	PD1102	20			8'-0"	1'-0"								
73	4	4	5'-11"	PD402	S10		2'-6"	0'-11"	2'-6"								
74																	
75																	
76																	
77																	
78				PIER E													
79	75	4	10'-4"	PE401	T3											2'-8"	
80	48	5	11'-4"	PE501	T1	0'-4"	2'-8"	2'-8"	2'-8	2'-8"		0'-4"					
81	2	6	30'-0"	PE601	STR.												
82	6	6	9'-10"	PE602	S11								3'-10"				3'-8"
83	15	6	33'-6"	PE603	STR.												
84	51	6	9'-6"	PE604	STR.												
85	15	8	33'-6"	PE801	STR.												
86	51	8	9'-6"	PE802	STR.												
87	10	10	19'-0"	PE1001	STR.												
88	8	10	11'-0"	PE1002	20			8'-4"	2'-8"								
89	5	10	16'-3"	PE1003	STR.												
90	10	10	15'-8"	PE1004	20			13'-0"	2'-8"								
91	48	11	27'-3"	PE1101	STR.												
92	48	11	9'-0"	PE1102	20			8'-0"	1'-0"								
93	4	4	5'-11"	PE402	S10		2'-6"	0'-11"	2'-6"								
94																	
95																	
96																	
97				PIER F													
98	100	4	10-4"	PF401	T3												2'-8"
99	24	4	5'-11"	PF402	S10		2'-6"	0'-11"	2'-6"								
100	74	5	11'-4"	PF501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"	0'-4"						
101	4	6	23'-9"	PF601	STR.												
102	6	6	9'-10"	PF602	S11								3'-10"				3'-8"
103	15	6	17'-6"	PF603	STR.												
104	15	6	29'-6"	PF604	STR.												
105	67	6	9'-6"	PF605	STR.												
106	30	8	24'-0"	PF801	STR.												
107	67	8	9'-6"	PF802	STR.												
108	12	10	20'-6"	PF1001	STR.												
109	6	10	16'-3"	PF1002	STR.												
110	10	10	29'-2"	PF1003	20			26'-6"	2'-8"								
111	8	11	12'-6"	PF1101	20			9'-10"	2'-8"								
112	56	11	27'-3"	PF1102	STR.												
113	56	11	9'-0"	PF1103	20			8'-0	1'-0"								
114																	
115																	
116																	
117																	
118																	
119				PIER G													
120	100	4	10'-4"	PG401	T3											2'-8"	
121	24	4	5'-11"	PG402	S10		2'-6"	0'-11"	2'-6"								
122	74	5	11'-4"	PG501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"	0'-4"						
123	4	6	23'-9"	PG601	STR.												
124	6	6	9'-10"	PG602	S11								3'-10"			3'-8"	
125	15	6	17'-6"	PG603	STR.												
126	15	6	29'-6"	PG604	STR.												
127	67	6	9'-6"	PG605	STR.												
128	30	8	24'-0"	PG801	STR.												
129	67	8	9'-6"	PG802	STR.												
130	12	10	20'-6"	PG1001	STR.												
131	6	10	16'-3"	PG1002	STR.												
132	10	10	29'-2"	PG1003	20			26'-6"	2'-8"								
133	8	11	12'-6"	PG1101	20			9'-10"	2'-8"								
134	56	11	26'-11"	PG1102	STR.												
135	56	11	9'-0"	PG1103	20			8'-0"	1'-0"								
136																	
137																	
138																	
139																	
140				PIER H													
141	72	4	10'-4"	PH401	T3											2'-8"	
142	28	4	5'-11"	PH402	S10		2'-6"	0'-11"	2'-6"								
143	74	5	11'-4"	PH501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"	0'-4"						
144	4	6	23'-9"	PH601	STR.												
145	6	6	9'-10"	PH602	S11								3'-10"				3'-8"
146	15	6	17'-6"	PH603	STR.												
147	15	6	29'-6"	PH604	STR.												
148	67	6	9'-6"	PH605	STR.												
149	30	8	24'-0"	PH801	STR.												
150	67	8	9'-6"	PH802	STR.												
151	12	10	20'-6"	PH1001	STR.												
152	6	10	16'-3"	PH1002	STR.												
153	10	10	29'-2"	PH1003	20			26'-6"	2'-8"								
154	8	11	12'-6"	PH1101	20			9'-10"	2'-8"								
155	56	11	20'-5"	PH1102	STR.												
156	56	11	9'-0"	PH1103	20			8'-0"	1'-0"								
157																	
158																	
159																	
160																	
161																	
162																	
163				PIER J													
164	72	4	10'-4"	PJ401	T3											2'-8"	
165	28	4	5'-11"	PJ402	S10		2'-6"	0'-11"	2'-6"								
166	74	5	11'-4"	PJ501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"	0'-4"						
167	4	6	23'-9"	PJ601	STR.												
168	6	6	9'-10"	PJ602	S11								3'-10"				3'-8"
169	15	6	17'-6"	PJ603	STR.												
170	15	6	29'-6"	PJ604	STR.												
171	67	6	9'-6"	PJ605	STR.												
172	30	8	24'-0"	PJ801	STR.												
173	67	8	9'-6"	PJ802	STR.												
174	12	10	20'-6"	PJ1001	STR.												
175	6	10	16'-3"	PJ1002	STR.												
176	10	10	29'-2"	PJ1003	20			26'-6"	2'-8"								
177	8	11	12'-6"	PJ1101	20			9'-10"	2'-8"								
178	56	11	19'-9"	PJ1102	STR.												
179	56	11	8'-0"	PJ1103	STR.												
180																	
181																	
182																	
183																	
184																	
185																	
186																	
187																	
188																	
189																	
190																	

B.P.R. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	VT.	I-89-2(7)	83	137

TYPICAL BAR BENDS

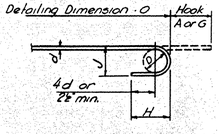


NOTES:

1. All dimensions are out to out of bar.
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where 'J' is not shown, 'J' will be kept equal to or less than 'H'. Where 'J' can exceed 'H,' it should be shown.
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook & radii in excess of same.

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163				PIER J													
164	72	4	10'-4"	PJ401	T3												2'-8"
165	28	4	5'-11"	PJ402	S10		2'-6"	0'-11"	2'-6"								
166	74	5	11'-4"	PJ501	T1	0'-4"	2'-8"	2'-8"	2'-8"	2'-8"	0'-4"						
167	4	6	23'-9"	PJ601	STR.												
168	6	6	9'-10"	PJ602	S11								3'-10"				3'-8"
169	15	6	17'-6"	PJ603	STR.												
170	15	6	29'-6"	PJ604	STR.												
171	67	6	9'-6"	PJ605	STR.												
172	30	8	24'-0"	PJ801	STR.												
173	67	8	9'-6"	PJ802	STR.												
174	12	10	20'-6"	PJ1001	STR.												
175	6	10	16'-3"	PJ1002	STR.												
176	10	10	29'-2"	PJ1003	20			26'-6"	2'-8"								
177	8	11	12'-6"	PJ1101	20			9'-10"	2'-8"								
178	56	11	19'-9"	PJ1102	STR.												
179	56	11	8'-0"	PJ1103	STR.												
180																	
181																	
182																	
183																	
184																	
185																	
186																	
187																	
188																	
189																	
190																	

Detailing Dimension : O



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
1/4" ϕ	#2
3/8" ϕ	#3
1/2" ϕ	#4
5/8" ϕ	#5
3/4" ϕ	#6
7/8" ϕ	#7
1" ϕ	#8
1 1/8" ϕ	#9
1 1/4" ϕ	#10
1 3/8" ϕ	#11

BOLTON IM 089-2(29)
BRIDGES 51 N&S
THIS SHEET FOR REFERENCE ONLY

8. Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation A.A.S.H.O. M31-48 or its latest revision. All bars shall be deformed to conform with A.S.T.M. Specifications A 305-49.
9. * Denotes one additional bar for testing purposes.

ESTIMATED QUANTITIES

FINAL	Location	Pounds
~~18,858~~	PIER A	=18,302=
~~18,251~~	PIER B	=17,932=
~~18,776~~	PIER C	=18,457=
~~18,474~~	PIER D	=18,156=
~~16,853~~	PIER E	=16,553=
~~21,570~~	PIER F	=21,205=
~~21,478~~	PIER G	=21,108=
~~19,369~~	PIER H	=19,002=
~~21,928~~	PIER J	=18,825=
175,572	TOTAL	=169,540=

CONTRACT NO. 3

REINFORCING SCHEDULE

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT in the towns of
WATERBURY--BOLTON
INTERSTATE STA. 1148+50
OVER
U.S. ROUTE 2 (REL.) STA. 30+00

THE CLARKESON ENGINEERING CO. INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

SURVEYED BY:	CHECKED BY D.S.& H.M.	SCALE NONE
DRAWN BY R.J.F.	IN CHARGE J.V.B.	DATE 7-7-58

PROJECT NO I-89-2(7)[illegible] SHEET 275 OF 307

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