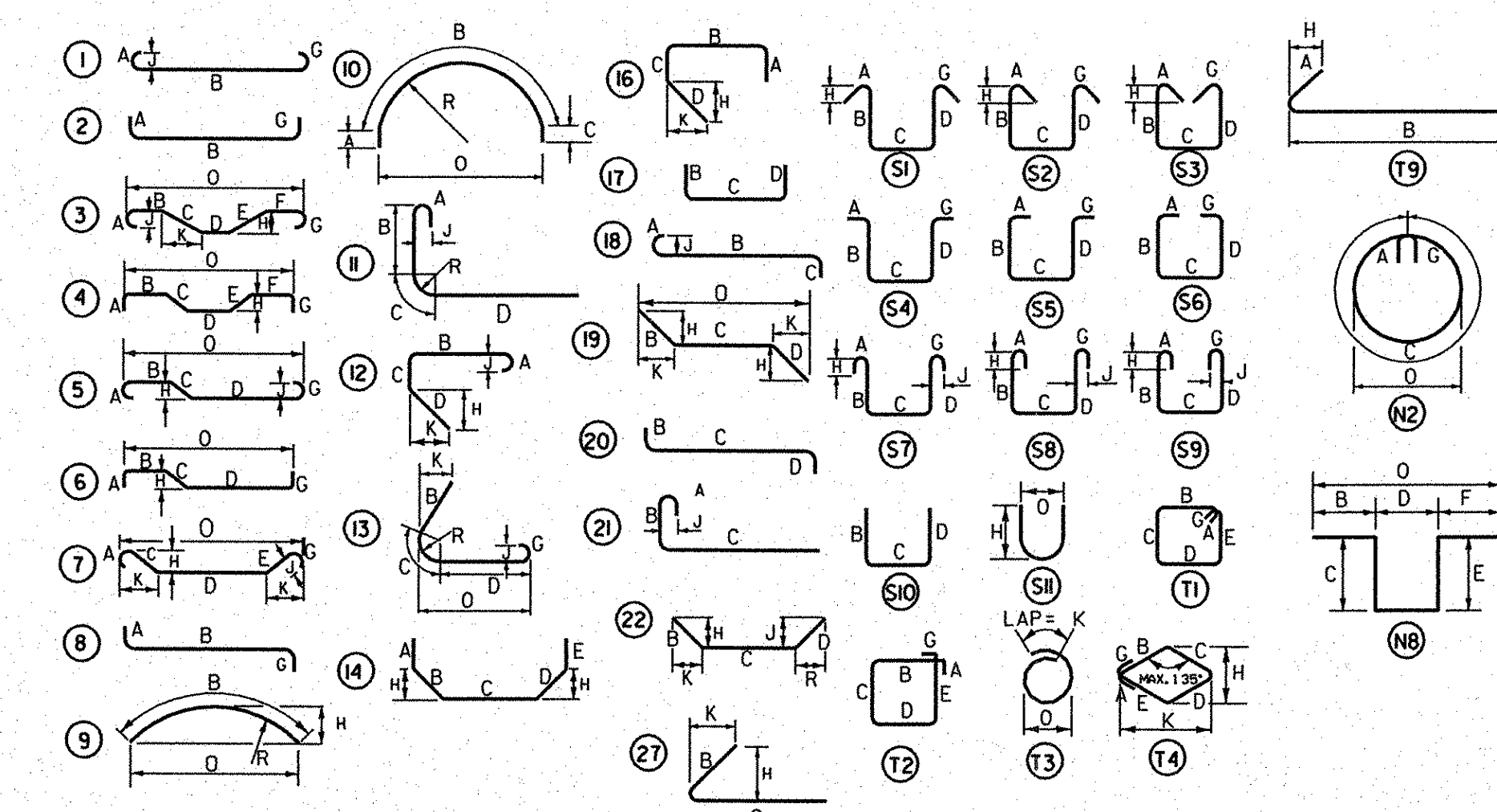




ROARING BRANCH - RAMP D

ITEM	NO. OF PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
DRILLED SHAFTS - PIER 1																	
1																	
2	49	36	18300	1D3601	STR.												
3	46	36	17300	1D3602	STR.												
4																	
5	386	19	7637	1D1901	N2	300		7037				300					2240
6																	
7	49	36	6210	1D3603	2	610	5600										
8	46	36	7210	1D3604	2	610	6600										
9																	
DRILLED SHAFTS - PIER 2																	
10																	
11	48	36	18300	2D3601	STR.												
12	47	36	17300	2D3602	STR.												
13																	
14	386	19	7637	2D1901	N2	300		7037				300					2240
15																	
16	48	36	6210	2D3603	2	610	5600										
17	47	36	7210	2D3604	2	610	6600										
18																	
PIER 1																	
19																	
20	11	16	7640	1P1611	STR.												
21	10	16	2840	1P1612	STR.												
22																	
23	14	13	2130	1P1301	T9	160	1840					130	110				
24	106	13	2240	1P1302	T9	160	1950					130	110				
25	71	13	3120	1P1303	T9	160	2830					130	110				
26	70	13	3540	1P1304	T9	160	3250					130	110				
27	92	13	5160	1P1305	10	1050	3060	1050								975	1850
28	90	13	4540	1P1306	10	1050	2440	1050								775	1550
29																	
30	12	16	8000	1P1601	1	180	7640					180	130				
31	54	16	3200	1P1602	1	180	2840					180	130				
32	6	16	9180	1P1603	1	180	8800					180	130				
33	9	16	3180	1P1604	1	180	3000						130				
34	8	16	6580	1P1605	1	180	6380						130				
35	120	16	4465	1P1606	S1	1500	1465	1500									
36	68	16	4585	1P1607	S1	1560	1465	1560									
37	12	16	6490	1P1608	3		2990	3500				1375			2650		
38	10	16	3270	1P1609	17	660	1950	660									
39	76	16	2200	1P1610	T9	200	1840					160	140				
40																	
41	34	25	9480	1P2501	1	330	8800					330		250			
42																	
43	36	32	8500	1P3201	1	430	7640					430		340			
44	101	32	6530	1P3202	1	430	6100							340			
45	100	32	11010	1P3203	1	430	10580							340			
46																	
PIER 2																	
47																	
48	10	16	7640	2P1611	STR.												
49	11	16	2840	2P1612	STR.												
50																	
51	14	13	2130	2P1301	T9	160	1840					130	110				
52	136	13	2240	2P1302	T9	160	1950					130	110				
53	91	13	3120	2P1303	T9	160	2830					130	110				
54	90	13	3540	2P1304	T9	160	3250					130	110				
55	112	13	5160	2P1305	10	1050	3060	1050								975	1850
56	110	13	4540	2P1306	10	1050	2440	1050								775	1550
57																	
58	12	16	8000	2P1601	1	180	7640					180	130				
59	54	16	3200	2P1602	1	180	2840					180	130				
60	6	16	9180	2P1603	1	180	8800					180	130				
61	9	16	3180	2P1604	1	180	3000						130				
62	8	16	6580	2P1605	1	180	6380						130				
63	120	16	4465	2P1606	S1	1500	1465	1500									
64	68	16	4585	2P1607	S1	1560	1465	1560									
65	12	16	6495	2P1608	3		2990	3475				1375			2650		
66	10	16	3270	2P1609	17	660	1950	660									
67	76	16	2200	2P1610	T9	200	1840					160	140				
68																	
69	34	25	9480	2P2501	1	330	8800					330		250			
70																	
71	36	32	8500	2P3201	1	430	7640					430		340			
72	100	32	6120	2P3202	1	430	7690							340			
73	101	32	12430	2P3203	1	430	12000							340			
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- NOTES:**
- 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 M 31/ASTM A 615-S11. 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 WHEN NECESSARY TO MAINTAIN CLEARANCES.
  - "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.

- LEGEND:**
- ▲ DENOTES BARS TO BE CUT IN THE FIELD.
  - \* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
  - △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
  - \*E\* IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.
  - \*S\* IN PREFIX DENOTES STAINLESS REINFORCING STEEL.
  - \*XAMXXXX\* DENOTES VT279 NB ABUTMENT
  - \*XAFXXXX\* DENOTES VT279 SB ABUTMENT
  - \*XAAXXXX\* DENOTES RAMP A ABUTMENT
  - \*XADXXXX\* DENOTES RAMP D ABUTMENT

BAR SIZE DESIGNATION	NOMINAL MASS (kg/m)	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER (mm)	CROSS SECTIONAL AREA (mm <sup>2</sup> )	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

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

Town Of BENNINGTON      Bridge No. B15N

Highway No. VT RTE 279      Log Sta.      Surv. Sta.

VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER

**REINFORCING STEEL SCHEDULE (SHEET 6 OF 6)**

Designed By M.D. BOWER      Drawn By R.G. COCOL

Checked By      Date      Bridge Design Supervisor

B.J. CARLSON      06/08      K.M. WOJTKOWSKI      Date 06/08

PROJECT BENNINGTON      PROJECT NO. AC NH 019-I(51)

TVGA CAD Drawing No. SteelSch.dgn      Date 02/02/2009

Bridge Sheet No. BR319      Sheet 306 of 367

