

PRELIMINARY INFORMATION SHEET (BRIDGE)

LRFD

INDEX OF SHEETS		STANDARDS LIST		FINAL HYDRAULIC REPORT																																																																																																																																																			
PLAN SHEETS				HYDROLOGIC DATA Date: 5/31/2013																																																																																																																																																			
1	TITLE SHEET	E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-06-1995	DRAINAGE AREA : 5.5 sq. mi. CHARACTER OF TERRAIN : Hilly to mountainous, mostly forested STREAM CHARACTERISTICS : Sinuous, slightly incised with minimal floodplain NATURE OF STREAMBED : Gravel, cobbles, boulders and ledge																																																																																																																																																		
2	PRELIMINARY INFORMATION SHEET	G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	01-03-2000																																																																																																																																																			
3	TYPICAL BRIDGE SECTION	G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	01-03-2000	PEAK FLOW DATA Q 2.33 = 300 cfs Q 50 = 1100 cfs Q 10 = 650 cfs Q 100 = 1275 cfs Q 25 = 900 cfs Q 500 = 1785 cfs																																																																																																																																																		
4	TYPICAL ROADWAY SECTIONS	S-367B	GUARDRAIL APPROACH SECTION, GALVANIZED HD STEEL BEAM	05-24-2012																																																																																																																																																			
5	TYPICAL EARTHWORK SECTIONS	T-1	TRAFFIC CONTROL GENERAL NOTES	08-06-2012	DATE OF FLOOD OF RECORD: 1927																																																																																																																																																		
6 - 7	PROJECT NOTES	T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012	ESTIMATED DISCHARGE: Unknown																																																																																																																																																		
8 - 9	QUANTITY SHEETS	T-30	CONSTRUCTION SIGN DETAILS	08-06-2012	WATER SURFACE ELEV.: Unknown																																																																																																																																																		
10	BRIDGE QUANTITY SHEET	T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08-06-2012	NATURAL STREAM VELOCITY: @ Q25 = 5.8 fps																																																																																																																																																		
11	CONVENTIONAL SYMBOLOLOGY LEGEND	T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08-06-2012	ICE CONDITIONS: Moderate																																																																																																																																																		
12	TIE SHEET				DEBRIS: Moderate																																																																																																																																																		
13	ALIGNMENT LAYOUT SHEET				DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? Yes																																																																																																																																																		
14	LAYOUT SHEET				IS ORDINARY RISE RAPID? Yes																																																																																																																																																		
15	PROFILE SHEET				IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No																																																																																																																																																		
16 - 18	TRAFFIC CONTROL PLANS				IF YES, DESCRIBE:																																																																																																																																																		
19	PLANTING PLAN																																																																																																																																																						
20	PLANTING AREA 1 PLAN AND SCHEDULE				WATERSHED STORAGE: < 1 % HEADWATERS: _____																																																																																																																																																		
21	PLANTING AREA 2 PLAN AND SCHEDULE				UNIFORM: X																																																																																																																																																		
22	PLANTING DETAILS				IMMEDIATELY ABOVE SITE: _____																																																																																																																																																		
23	TRAFFIC SIGNS & LINE STRIPING SHEET				EXISTING STRUCTURE INFORMATION																																																																																																																																																		
24	TRAFFIC SIGN SUMMARY SHEET				STRUCTURE TYPE: Single span concrete encased steel beam bridge																																																																																																																																																		
25	BORING INFORMATION SHEET				YEAR BUILT: 1920																																																																																																																																																		
26 - 28	BORING LOGS				CLEAR SPAN(NORMAL TO STREAM): 11'-6"																																																																																																																																																		
29	PLAN AND ELEVATION				VERTICAL CLEARANCE ABOVE STREAMBED: 5'-0"																																																																																																																																																		
30	FRAMING PLAN				WATERWAY OF FULL OPENING: 54.5 sq. ft.																																																																																																																																																		
31 - 32	NON-VOIDED SLAB DETAILS TYPE I				DISPOSITION OF STRUCTURE: Remove and replace structure																																																																																																																																																		
33 - 34	NON-VOIDED SLAB DETAILS TYPE II				TYPE OF MATERIAL UNDER SUBSTRUCTURE: See borings																																																																																																																																																		
35 - 36	NON-VOIDED SLAB DETAILS TYPE III				WATER SURFACE ELEVATIONS AT:																																																																																																																																																		
37	PRESTRESSED BEAM DETAILS				Q2.33 = 538.1 ft VELOCITY = 9.1 fps																																																																																																																																																		
38	OVERLAY REINFORCING DETAILS				Q10 = 542.1 ft " 9.5 fps																																																																																																																																																		
39	BEARING DETAILS				Q25 = 542.6 ft " 9.7 fps																																																																																																																																																		
40	APPROACH SLAB DETAILS				Q50 = 542.7 ft " 10.8 fps																																																																																																																																																		
41	ABUTMENT NO. 1 PLAN & ELEVATION				Q100 = 543.1 ft " 8.5 fps																																																																																																																																																		
42	WINGWALL NO. 1 ELEVATION & DETAILS				LONG TERM STREAMBED CHANGES: None noted																																																																																																																																																		
43	WINGWALL NO. 2 ELEVATION & DETAILS				IS THE ROADWAY OVERTOPPED BELOW Q100: Yes																																																																																																																																																		
44	ABUTMENT NO. 1 FOOTING PLAN				FREQUENCY: Q10																																																																																																																																																		
45	ABUTMENT NO. 2 PLAN & ELEVATION				RELIEF ELEVATION: 539.6																																																																																																																																																		
46	WINGWALL NO. 3 ELEVATION & DETAILS				DISCHARGE OVER ROAD @Q100: 182 cfs																																																																																																																																																		
47	WINGWALL NO. 4 ELEVATION & DETAILS				UPSTREAM STRUCTURE																																																																																																																																																		
48	ABUTMENT NO. 2 FOOTING PLAN				TOWN: Brattleboro DISTANCE: 8450 ft																																																																																																																																																		
49 - 50	REINFORCING STEEL SCHEDULES				HIGHWAY #: TH 4 (Halladay Brook Road) STRUCTURE #: 16																																																																																																																																																		
51	BRIDGE RAIL DETAILS				CLEAR SPAN: 20' CLEAR HEIGHT: 9'																																																																																																																																																		
52	BRIDGE RAIL LAYOUT SHEET				YEAR BUILT: 2005 FULL WATERWAY: _____																																																																																																																																																		
53 - 56	ROADWAY CROSS SECTIONS				STRUCTURE TYPE: Single span concrete slab																																																																																																																																																		
57 - 59	CHANNEL CROSS SECTIONS				DOWNSTREAM STRUCTURE																																																																																																																																																		
60	EPSC NARRATIVE				TOWN: Brattleboro DISTANCE: 1340'																																																																																																																																																		
61	EPSC EXISTING CONDITIONS PLAN				HIGHWAY #: Private Road (Winding Hill Road) STRUCTURE #: Private																																																																																																																																																		
62	EPSC CONSTRUCTION CONDITIONS PLAN				CLEAR SPAN: _____ CLEAR HEIGHT: _____																																																																																																																																																		
63	EPSC FINAL CONDITIONS PLAN				YEAR BUILT: _____ FULL WATERWAY: _____																																																																																																																																																		
64 - 66	EROSION CONTROL DETAILS				STRUCTURE TYPE: _____																																																																																																																																																		
67	R.O.W. DETAIL SHEET #1				LRFR LOAD RATING FACTORS																																																																																																																																																		
68	ROW LAYOUT SHEET 1 OF 1				LOADING LEVELS																																																																																																																																																		
STRUCTURES DETAILS				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">AS BUILT "REBAR" DETAIL</th> </tr> <tr> <th>LEVEL I</th> <th>LEVEL II</th> </tr> </thead> <tbody> <tr> <td>TYPE: _____</td> <td>TYPE: _____</td> </tr> <tr> <td>GRADE: _____</td> <td>GRADE: _____</td> </tr> </tbody> </table>		AS BUILT "REBAR" DETAIL		LEVEL I	LEVEL II	TYPE: _____	TYPE: _____	GRADE: _____	GRADE: _____																																																																																																																																										
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SD-501.00	CONCRETE DETAILS AND NOTES	05-10-2010																																																																																																																																																					
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SD-516.10	BRIDGE JOINT ASPHALTIC PLUG	05-07-2010																																																																																																																																																					
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YEAR	ADT	DHV	% D	% T	ADTT																																																																																																																																																		
2012	460	50	76	2.1	10																																																																																																																																																		
2032	490	55	76	3.6	20																																																																																																																																																		
20 year ESAL for flexible pavement from 2012 to 2032 : 40000		40 year ESAL for flexible pavement from 2012 to 2052 : 93000		Design Speed : 25 mph																																																																																																																																																			
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