

APPENDIX 3

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
99.0	V-BE-AS-3	Unnamed Tributary to Lake Champlain	North Lake Road, Benson	At Culvert	Culvert #100028; steel plate culvert / 24-in CMP; low gradient between wetlands



V-BE-AS-3 Culvert Inlet



V-BE-AS-3 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
99.0	V-BE-AS-3	Unnamed Tributary to Lake Champlain	North Lake Road, Benson	At Culvert	Culvert #100028; steel plate culvert / 24-in CMP; low gradient between wetlands



V-BE-AS-3 Culvert Outlet / Downstream Wetland (V-BE-AW-4)



V-BE-AS-3 Culvert Outlet

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
99.0	V-BE-AS-3	Unnamed Tributary to Lake Champlain	North Lake Road, Benson	At Culvert	Culvert #100028; steel plate culvert / 24-in CMP; low gradient between wetlands



V-BE-AS-3 Up Station Roadway



V-BE-AS-3 Down Station Roadway Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
100.7	V-BE-S-8	Unnamed Tributary to Hubbardton River	Old North Lake Road, Benson	Replace Culvert	Culvert #100036; 24-in HDPE; gravel substrate



V-BE-S-8 Culvert Inlet



V-BE-S-8 Upstream Wetland (V-BE-W-14)

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
100.7	V-BE-S-8	Unnamed Tributary to Hubbardton River	Old North Lake Road, Benson	Replace Culvert	Culvert #100036; 24-in HDPE; gravel substrate



V-BE-S-8 Culvert Outlet



V-BE-S-8 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
100.7	V-BE-S-8	Unnamed Tributary to Hubbardton River	Old North Lake Road, Benson	Replace Culvert	Culvert #100036; 24-in HDPE; gravel substrate



V-BE-S-8 Up Station Roadway



V-BE-S-8 Down Station Roadway Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
101.2	V-BE-AS-10	Unnamed Tributary to Hubbardton River	Old North Lake Road, Benson	At Culvert	Culvert # 100039; 36-in HDPE



V-BE-AS-10 Culvert Inlet / Upstream Wetland (V-BE-AW-17)



V-BE-AS-10 Culvert Inlet / Upstream Wetland (V-BE-AS-17)

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
101.2	V-BE-AS-10	Unnamed Tributary to Hubbardton River	Old North Lake Road, Benson	At Culvert	Culvert # 100039; 36-in HDPE



V-BE-AS-10 Culvert Outlet



V-BE-AS-10 Culvert Outlet Downstream

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
101.2	V-BE-AS-10	Unnamed Tributary to Hubbardton River	Old North Lake Road, Benson	At Culvert	Culvert # 100039; 36-in HDPE



V-BE-AS-10 Upstream View Old North Lake Road (Northwest)



V-BE-AS-10 Down Old North Lake Road (East)

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
102.2	V-BE-S-100	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	OTE	Culvert #21799; 24-in CMP



V-BE-S-100 Culvert Inlet / Upstream Wetland V-BE-AW-100

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
102.2	V-BE-S-100	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	OTE	Culvert #21799; 24-in CMP



V-BE-S-100 Inlet



V-BE-S-100 Inlet Upstream View

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
102.2	V-BE-S-100	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	OTE	Culvert #21799; 24-in CMP



V-BE-S-100 Outlet / Downstream Wetland V-BE-AW-100



V-BE-S-100 Downstream Wetland V-BE-AW-100

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
103.1	V-BE-S-102	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	Over Culvert	Culvert# 21786; 8-ft (H) x 5-ft (W) concrete box



V-BE-S-102 Culvert Inlet



V-BE-S-102 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
103.1	V-BE-S-102	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	Over Culvert	Culvert# 21786; 8-ft (H) x 5-ft (W) concrete box



V-BE-S-102 Culvert Outlet



V-BE-S-102 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
103.1	V-BE-S-102	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	Over Culvert	Culvert# 21786; 8-ft (H) x 5-ft (W) concrete box



V-BE-S-102 Down Station Roadway along Route 22A (North)

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
104.7	V-BE-S-106	Hubbardton River	VT Route 22A, Benson	HDD	HDD under Hubbardton River; existing structure is twin multi-plate pipe arches, (2) x 16'3"(W) x 10'10" (H); Culverts #100042 & 100043



V-BE-S-106 double culvert inlet



V-BE-S-106 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
105.1	V-BE-S-109	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	OTE	Culvert #21769; 30-in CMP upstream, 24-in HDPE downstream



V-BE-S-109 Culvert Inlet



V-BE-S-109 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
105.1	V-BE-S-109	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	OTE	Culvert #21769; 30-in CMP upstream, 24-in HDPE downstream



V-BE-S-109 Culvert Outlet



V-BE-S-109 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
105.1	V-BE-S-109	Unnamed Tributary to Hubbardton River	VT Route 22A, Benson	OTE	Culvert #21769; 30-in CMP upstream, 24-in HDPE downstream



V-BE-S-109 Down Station Roadway



V-BE-S-109 Gully within ROW, south of culvert crossing

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
106.2	V-WH-S-4	Unnamed Tributary to Poultney River	VT Route 22A, West Haven	OTE	Culvert #13400; Multiple culverts draining to inlet; 30-in CMP upstream, 30-in HDPE downstream



V-WH-S-4 Culvert Inlet



V-WH-S-4 Upstream Culverts (Northeast)

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
106.2	V-WH-S-4	Unnamed Tributary to Poultney River	VT Route 22A, West Haven	OTE	Culvert #13400; Multiple culverts draining to inlet; 30-in CMP upstream, 30-in HDPE downstream



V-WH-S-4 Culvert Outlet



V-WH-S-4 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
106.2	V-WH-S-4	Unnamed Tributary to Poultney River	VT Route 22A, West Haven	OTE	Culvert #13400; Multiple culverts draining to inlet; 30-in CMP upstream, 30-in HDPE downstream



V-WH-S-4 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
108.1	V-WH-S-2	Unnamed Tributary to Poultney River	VT Route 22A, West Haven	At Culvert	OTE V-WH-S-2, Culvert and V-WH-S-1. Jack and bore under VT-22A; Culvert #13377; 24-in CMP



V-WH-S-2 Culvert Inlet



V-WH-S-2 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
108.1	V-WH-S-2	Unnamed Tributary to Poultney River	VT Route 22A, West Haven	At Culvert	OTE V-WH-S-2, Culvert and V-WH-S-1. Jack and bore under VT-22A; Culvert #13377; 24-in CMP



V-WH-S-2 Culvert Outlet



V-WH-S-2 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
108.1	V-WH-S-2	Unnamed Tributary to Poultney River	VT Route 22A, West Haven	At Culvert	OTE V-WH-S-2, Culvert and V-WH-S-1. Jack and bore under VT-22A; Culvert #13377; 24-in CMP



V-WH-S-2 View North of Downstream Culvert Outlet

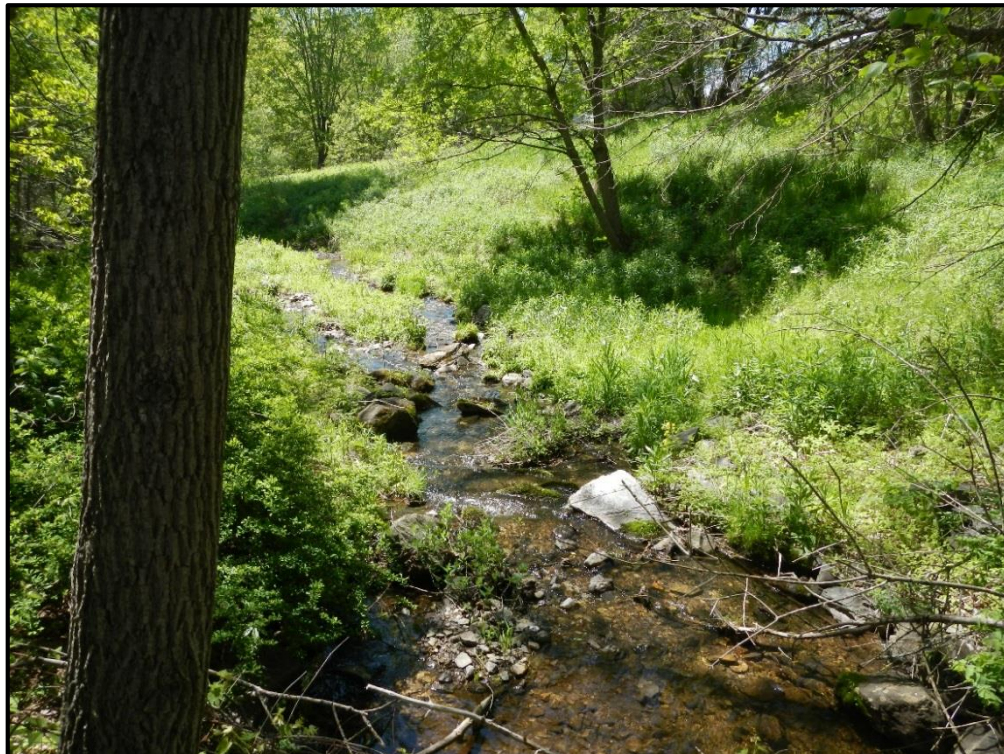


V-WH-S-2 View South of Downstream Culvert Outlet

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
108.4	V-FH-S-25	Unnamed Tributary to Poultney River	VT Route 22A, Fair Haven	HDD	Culvert #13371; HDD under V-FH-S-25



V-FH-S-25 Culvert Outlet



V-FH-S-25 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
108.4	V-FH-S-25	Unnamed Tributary to Poultney River	VT Route 22A, Fair Haven	HDD	Culvert #13371; HDD under V-FH-S-25



V-FH-S-25 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
109.6	V-FH-S-17	Unnamed Tributary to Mud Brook	VT Route 22A, Fair Haven	At Culvert	Culvert #13358; 48-in CMP



V-FH-S-17 Culvert Inlet



V-FH-S-17 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
109.6	V-FH-S-17	Unnamed Tributary to Mud Brook	VT Route 22A, Fair Haven	At Culvert	Culvert #13358; 48-in CMP



V-FH-S-17 Culvert Outlet



V-FH-S-17 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
109.6	V-FH-S-17	Unnamed Tributary to Mud Brook	VT Route 22A, Fair Haven	At Culvert	Culvert #13358; 48-in CMP



V-FH-S-17 Up Station Roadway



V-FH-S-17 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
110.2	V-FH-S-13	Mud Brook	US Route 4, Fair Haven	HDD	Culvert # 13348; HDD under V-FH-S-15 and Mud Brook while crossing under US-4 ramp



V-FH-S-13 Downstream Channel



V-FH-S-13 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
111.0	V-FH-S-5	Unnamed Tributary to Mud Brook	US Route 4, Fair Haven	At Culvert	Culvert #30118; 48-in CMP; HDD under V-FH-S-4, V-FH-S-5, V-FH-S-26, Dutch Ave, and US-4 ramp



V-FH-S-5 Culvert Outlet



V-FH-S-5 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
111.0	V-FH-S-5	Unnamed Tributary to Mud Brook	US Route 4, Fair Haven	At Culvert	Culvert #30118; 48-in CMP; HDD under V-FH-S-4, V-FH-S-5, V-FH-S-26, Dutch Ave, and US-4 ramp



V-FH-S-5 Up Station Roadway



V-FH-S-5 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
111.8	V-FH-S-10	Unnamed Tributary to Castleton River	US Route 4, Fair Haven	At Culvert	Culvert #30125; 48-in CMP. Wetlands drain via 42-in and 24-in culverts and manhole upstream of 48-in culvert.



V-FH-S-10 Inlet of 42-in culvert located upstream from 48-in culvert proposed to be crossed



V-FH-S-10 Wetland upstream of 42-in culvert (V-FH-W-4)

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
111.8	V-FH-S-10	Unnamed Tributary to Castleton River	US Route 4, Fair Haven	At Culvert	Culvert #30125; 48-in CMP. Wetlands drain via 42-in and 24-in culverts and manhole upstream of 48-in culvert.



V-FH-S-10 Down Station Roadway



V-FH-S-10 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
113.2	V-CN-S-101	Unnamed Tributary to Castleton River	US Route 4, Castleton	OTE	Culvert #30174; 60-in CMP



V-CN-S-101 Culvert Outlet



V-CN-S-101 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
113.2	V-CN-S-101	Unnamed Tributary to Castleton River	US Route 4, Castleton	OTE	Culvert #30174; 60-in CMP



V-CN-S-101 Down Station Roadway

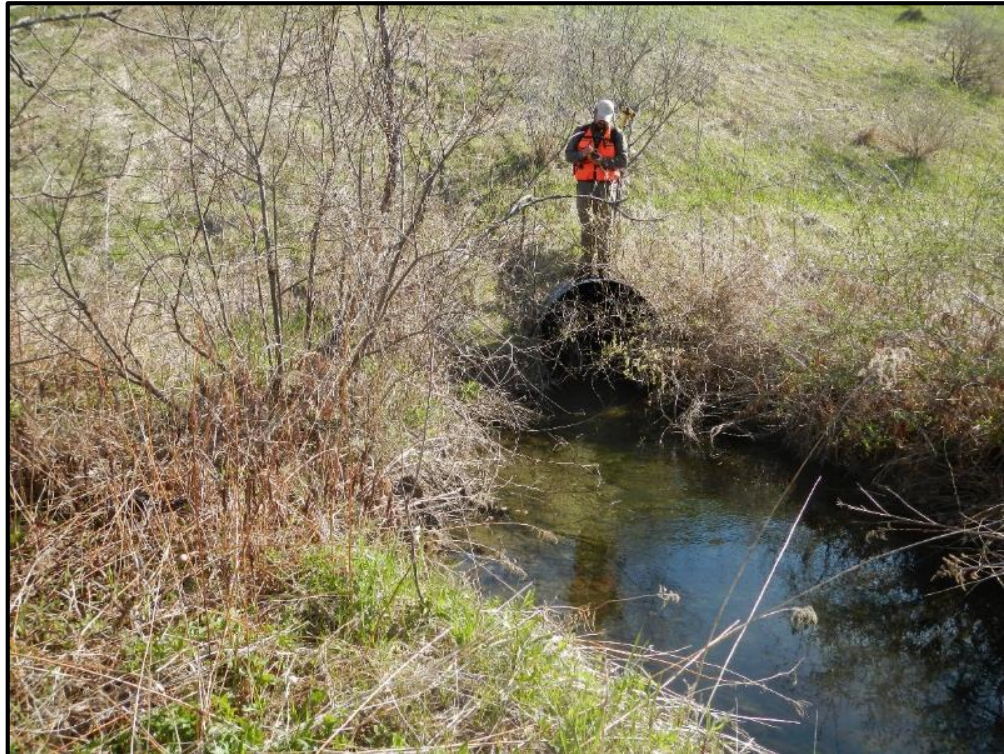


V-CN-S-101 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
115.4	V-CN-S-12	Unnamed Tributary to Castleton River	US Route 4, Castleton	HDD	Culvert #30275, 48-in CMP, boulder/cobble substrate



V-CN-S-12 Upstream Wetland



V-CN-S-12 Culvert Outlet

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
115.4	V-CN-S-12	Unnamed Tributary to Castleton River	US Route 4, Castleton	HDD	Culvert #30275, 48-in CMP, boulder/cobble substrate



V-CN-S-12 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
116.5	V-CN-S-8	North Breton Brook	US Route 4, Castleton	HDD	Culvert #100050; HDD under North Breton Brook, E Hubbardton Rd, and US-4 ramps



V-CN-S-8 Upstream Channel



V-CN-S-8 Culvert Inlet

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
116.5	V-CN-S-8	North Breton Brook	US Route 4, Castleton	HDD	Culvert #100050; HDD under North Breton Brook, E Hubbardton Rd, and US-4 ramps



V-CN-S-8 Upstream Channel



V-CN-S-8 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
117.7	V-CN-S-4	Unnamed Tributary to Castleton River	US Route 4, Castleton	At Culvert	Culvert #30347; 48-in RCP



V-CN-S-4 Culvert Inlet



V-CN-S-4 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
117.7	V-CN-S-4	Unnamed Tributary to Castleton River	US Route 4, Castleton	At Culvert	Culvert #30347; 48-in RCP



V-CN-S-4 Culvert Outlet

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
117.7	V-CN-S-4	Unnamed Tributary to Castleton River	US Route 4, Castleton	At Culvert	Culvert #30347; 48-in RCP



V-CN-S-4 Down Station Roadway



V-CN-S-4 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
119.6	T-IR-S4	Unnamed Tributary to Castleton River	US Route 4, Ira	At Culvert	Culvert # 100051; 72-in CMP



T-IR-S4 Culvert Inlet



T-IR-S4 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
119.6	T-IR-S4	Unnamed Tributary to Castleton River	US Route 4, Ira	At Culvert	Culvert # 100051; 72-in CMP



T-IR-S4 Down Station Roadway



T-IR-S4 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
121.1	T-WR-S34	Unnamed Tributary to Castleton River	US Route 4, West Rutland	At Culvert	Culvert #30453; 36-in CMP



T-WR-S34 Culvert Inlet



T-WR-S34 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
121.1	T-WR-S34	Unnamed Tributary to Castleton River	US Route 4, West Rutland	At Culvert	Culvert #30453; 36-in CMP



T-WR-S34 Culvert Outlet



T-WR-S34 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
121.1	T-WR-S34	Unnamed Tributary to Castleton River	US Route 4, West Rutland	At Culvert	Culvert #30453; 36-in CMP



T-WR-S34 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
121.6	T-WR-S29	Castleton River	US Route 4; West Rutland	HDD	HDD under Castleton River and railroad tracks



T-WR-S29 Downstream Channel



T-WR-S29 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
123.3	T-WR-S18	Unnamed Tributary to Clarendon River	US Route 4; West Rutland	HDD	Culvert #100052; HDD under T-WR-S18 and Clarendon Ave



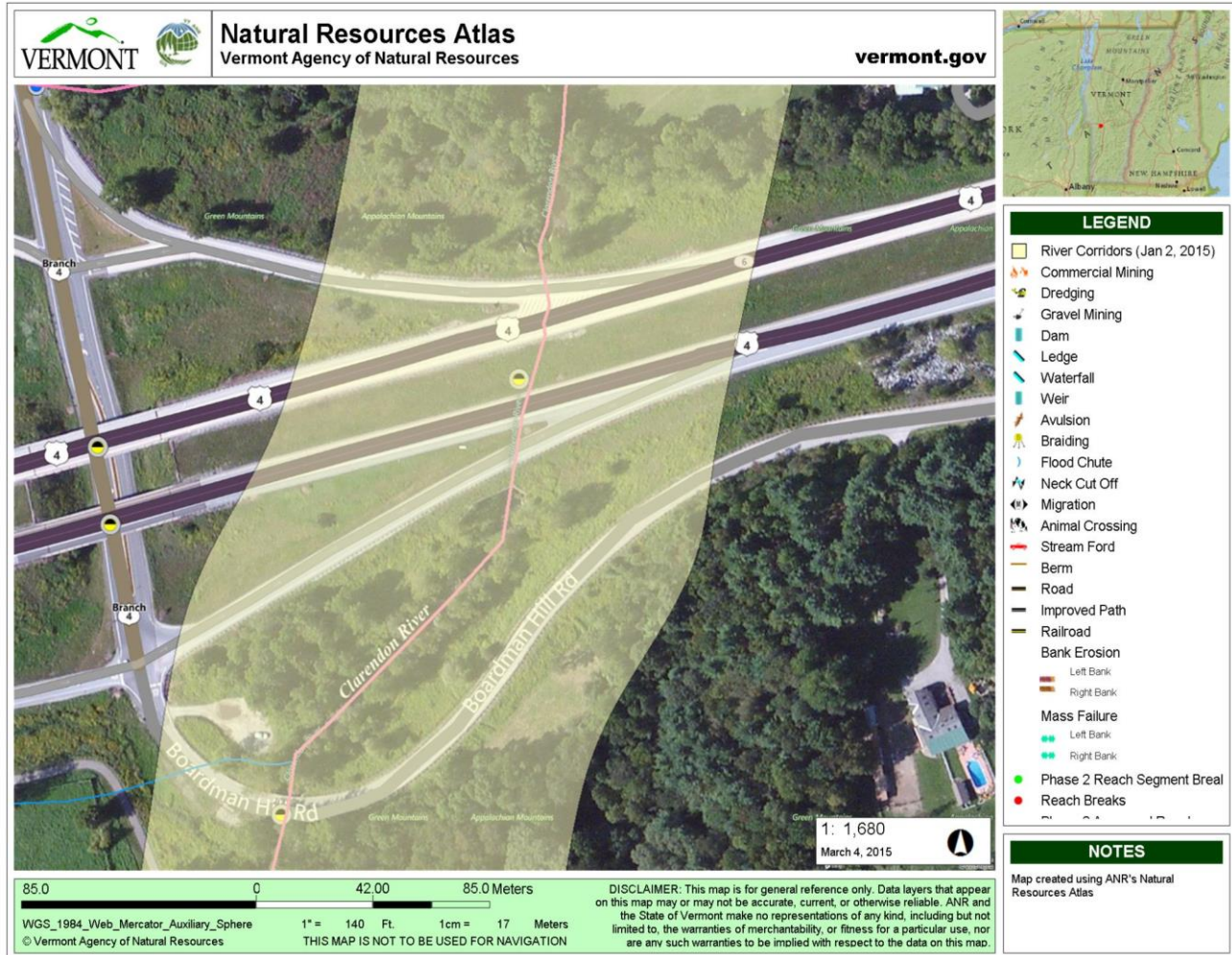
T-WR-S18 Downstream Channel



T-WR-S18 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
123.8	T-WR-S36	Clarendon River	US Route 4; West Rutland	HDD	HDD under Clarendon River and Boardman Hill Rd; Adjacent Culvert #101184

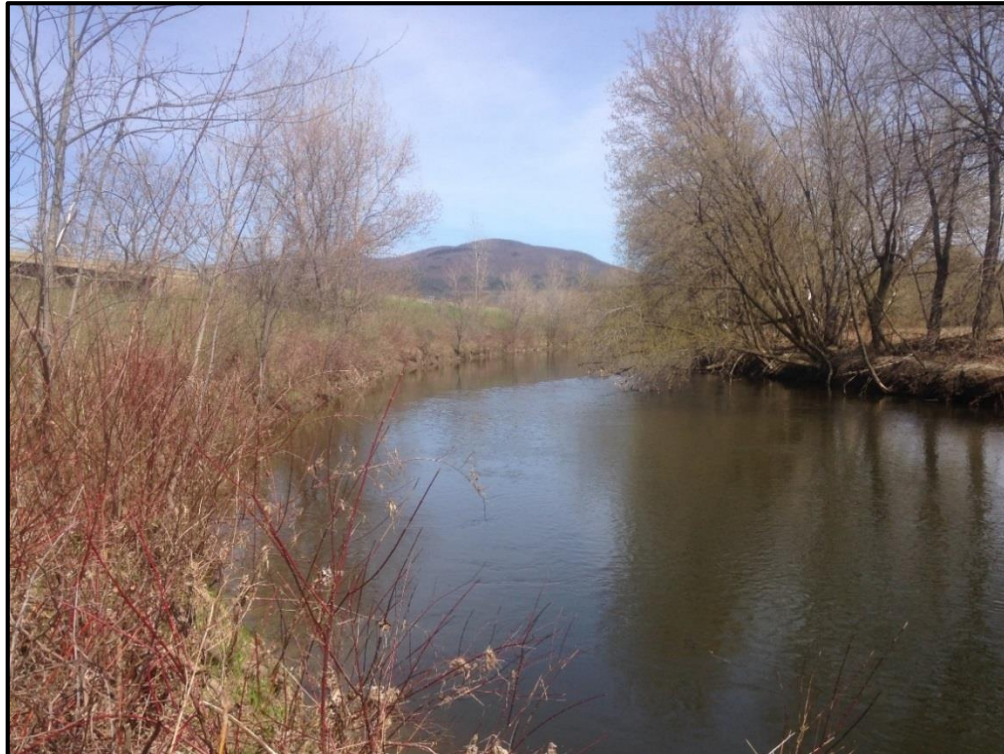
No photographs of the structure are available at this time. An aerial image of the site from the ANR Natural Resources Atlas is pasted below.



Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
126.6	T-RU-S2	Otter Creek	US Route 4; Rutland	HDD	HDD under multiple sections of Otter Creek



T-RU-S2 Downstream Channel



T-RU-S2 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
128.1	T-CL-S6	Cold River	US Route 7; Clarendon	HDD	HDD under Cold River and US-7 ramps



T-CL-S6 Downstream Channel



T-CL-S6 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
128.3	T-CL-S8	Unnamed Tributary to Otter Creek	US Route 7; Clarendon	HDD	Culvert #100056; HDD crossing US-7 and culvert



T-CL-S8 Downstream Channel



T-CL-S8 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
128.7	T-CL-S4	Unnamed Tributary to Otter Creek	US Route 7, Clarendon	OTE	Culvert #21474; 48-in CMP; 6.5-ft (W) by 6.5-ft (H) cattle pass located 30 ft up station from culvert.



T-CL-S4 Culvert Inlet



T-CL-S4 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
128.7	T-CL-S4	Unnamed Tributary to Otter Creek	US Route 7, Clarendon	OTE	Culvert #21474; 48-in CMP; 6.5-ft (W) by 6.5-ft (H) cattle pass located 30 ft up station from culvert.



T-CL-S4 Culvert Outlet / Downstream Channel



T-CL-S4 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
128.7	T-CL-S4	Unnamed Tributary to Otter Creek	US Route 7, Clarendon	OTE	Culvert #21474; 48-in CMP; 6.5-ft (W) by 6.5-ft (H) cattle pass located 30 ft up station from culvert.



T-CL-S4 Up Station Roadway; top of cattle pass visible at ditch line



T-CL-S4 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
129.6	T-CL-S2	Unnamed Tributary to Otter Creek	US Route 7, Clarendon	HDD	Culvert # 100059; 12-ft wide multi-plate pipe arch



T-CL-S2 Downstream Channel



T-CL-S2 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
132.7	V-SH-S-16	Unnamed Tributary to Mill River	VT Route 103, Shrewsbury	At Culvert	Culvert #100062; 36-in CMP



V-SH-S-16 Culvert Inlet; remnants of old headwall obstructing culvert inlet



V-SH-S-16 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
132.7	V-SH-S-16	Unnamed Tributary to Mill River	VT Route 103, Shrewsbury	At Culvert	Culvert #100062; 36-in CMP



V-SH-S-16 Culvert Outlet



V-SH-S-16 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
132.7	V-SH-S-16	Unnamed Tributary to Mill River	VT Route 103, Shrewsbury	At Culvert	Culvert #100062; 36-in CMP



V-SH-S-16 Up Station Roadway



V-SH-S-16 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
133.4	V-SH-S-14	Unnamed Tributary to Mill River	VT Route 103, Shrewsbury	Over Culvert	Culvert #100026; High embankment fill; install cable above existing 12-ft (W) by 10-ft (H) concrete box culvert



V-SH-S-14 Culvert Inlet



V-SH-S-14 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
133.4	V-SH-S-14	Unnamed Tributary to Mill River	VT Route 103, Shrewsbury	Over Culvert	Culvert #100026; High embankment fill; install cable above existing 12-ft (W) by 10-ft (H) concrete box culvert



V-SH-S-14 Culvert Outlet



V-SH-S-14 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
133.4	V-SH-S-14	Unnamed Tributary to Mill River	VT Route 103, Shrewsbury	Over Culvert	Culvert #100026; High embankment fill; install cable above existing 12-ft (W) by 10-ft (H) concrete box culvert



V-SH-S-14 Up Station Roadway



V-SH-S-14 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
134.4	T-SH-S2	Unnamed Tributary to Mill River	Green Mountain Railroad, Shrewsbury	HDD	Culvert #3; 14-ft wide granite block culvert



T-SH-S2 Culvert Inlet



T-SH-S2 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
134.4	T-SH-S2	Unnamed Tributary to Mill River	Green Mountain Railroad, Shrewsbury	HDD	Culvert #3; 14-ft wide granite block culvert



T-SH-S2 Culvert Outlet



T-SH-S2 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
135.5	T-SH-S3	Unnamed Tributary to Mill River	Green Mountain Railroad, Shrewsbury	OTE	Culvert #19; 14-ft granite block culvert



T-SH-S3 Culvert Inlet

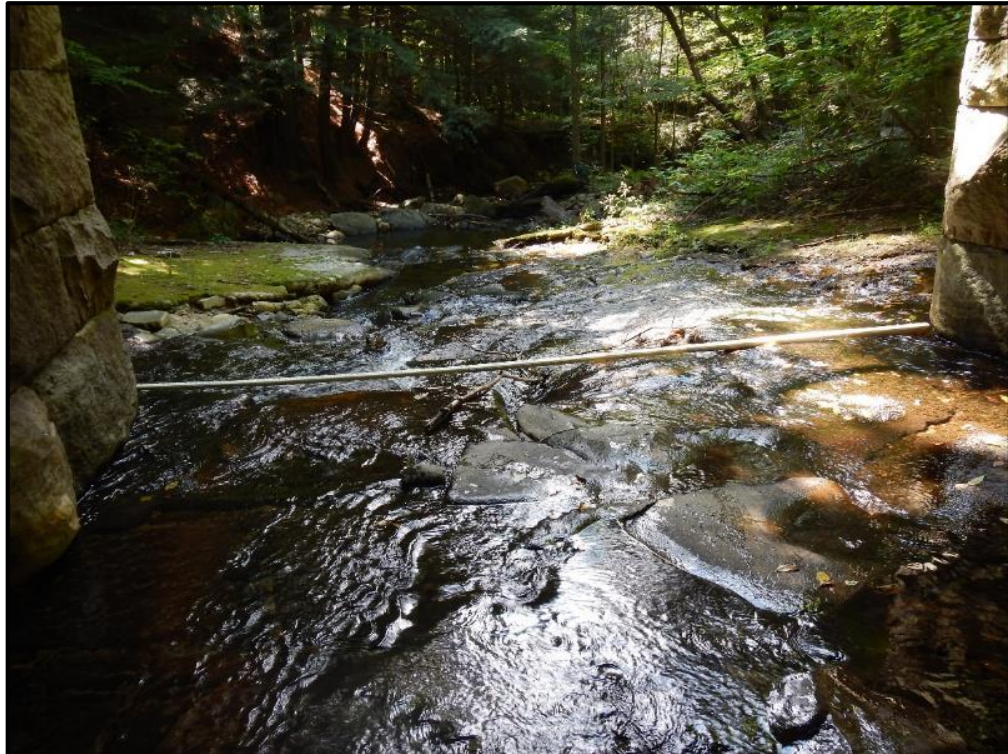


T-SH-S3 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
135.5	T-SH-S3	Unnamed Tributary to Mill River	Green Mountain Railroad, Shrewsbury	OTE	Culvert #19; 14-ft granite block culvert



T-SH-S3 Culvert Outlet



T-SH-S3 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
136.1	T-SH-S7	Unnamed Tributary to Mill River	Green Mountain Railroad, Shrewsbury	OTE	Culvert #25; 36-in stone culvert



T-SH-S7 Culvert Outlet



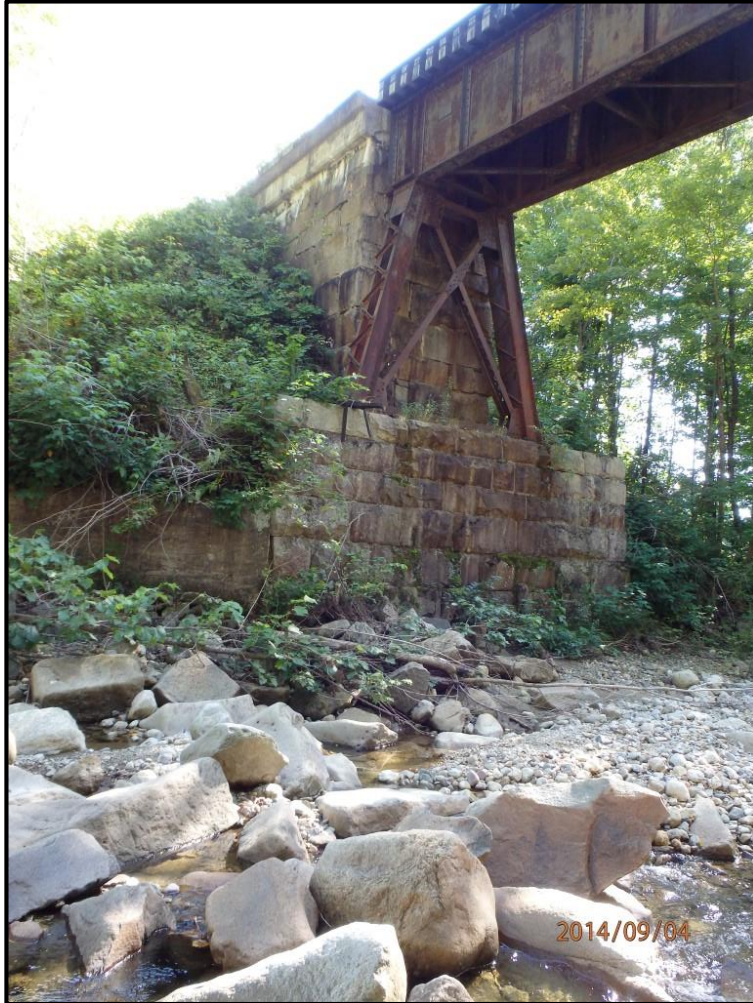
T-SH-S7 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
136.1	T-SH-S7	Unnamed Tributary to Mill River	Green Mountain Railroad, Shrewsbury	OTE	Culvert #25; 36-in stone culvert



T-SH-S7 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
136.9	T-WA-S1	Freeman Brook	Green Mountain Railroad, Wallingford	HDD	Culvert #38; HDD under Freeman Brook, Existing RR Bridge



T-WA-S1 – Railroad Bridge at Freeman Brook

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
137.8	V-WA-S106	Unnamed Tributary to Mill River	VT Route 103, Wallingford	OTE	Culvert #100067; 30-in CMP



V-WA-S106 Culvert Inlet (partially clogged and submerged)



V-WA-S106 Upstream Channel (in wooded area just beyond edge of ROW)

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
137.8	V-WA-S106	Unnamed Tributary to Mill River	VT Route 103, Wallingford	OTE	Culvert #100067; 30-in CMP



V-WA-S106 Culvert Outlet



V-WA-S106 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
137.8	V-WA-S106	Unnamed Tributary to Mill River	VT Route 103, Wallingford	OTE	Culvert #100067; 30-in CMP



V-WA-S106 Down Station Roadway



V-WA-S106 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
137.9	V-WA-S105	Unnamed Tributary to Mill River	VT Route 103, Wallingford	At Culvert	Culvert #21188; 30-in CMP



V-WA-S105 Culvert Inlet



V-WA-S105 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
137.9	V-WA-S105	Unnamed Tributary to Mill River	VT Route 103, Wallingford	At Culvert	Culvert #21188; 30-in CMP



V-WA-S105 Flood Berm Adjacent To Upstream Channel



V-WA-S105 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
137.9	V-WA-S105	Unnamed Tributary to Mill River	VT Route 103, Wallingford	At Culvert	Culvert #21188; 30-in CMP



V-WA-S105 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
139.3	T-MH-S37	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	HDD	Culvert #100024; 4-ft (W) by 5-ft (H) concrete box culvert



T-MH-S37 Culvert Inlet



T-MH-S37 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
139.3	T-MH-S37	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	HDD	Culvert #100024; 4-ft (W) by 5-ft (H) concrete box culvert



T-MH-S37 Culvert Outlet



T-MH-S37 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
139.3	T-MH-S37	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	HDD	Culvert #100024; 4-ft (W) by 5-ft (H) concrete box culvert



T-MH-S37 Down Station Roadway



T-MH-S37 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
140.4	T-MH-S28	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	OTE	Existing roadway bridge



T-MH-S28 Upstream Bridge Abutment



T-MH-S28 Channel Upstream of Bridge

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
140.4	T-MH-S28	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	OTE	Existing roadway bridge



T-MH-S28 Downstream Bridge Abutment



T-MH-S28 Channel Downstream of Bridge

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
140.4	T-MH-S28	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	OTE	Existing roadway bridge



T-MH-S28 Down Station Roadway



T-MH-S28 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
141.8	T-MH-AS-23	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert #20940; 66-in CMP squash pipe



T-MH-AS-23 Culvert Inlet



T-MH-AS-23 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
141.8	T-MH-AS-23	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert #20940; 66-in CMP squash pipe



T-MH-AS-23 Culvert Outlet



T-MH-AS-23 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
141.8	T-MH-AS-23	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert #20940; 66-in CMP squash pipe



T-MH-AS-23 Down Station Roadway



T-MH-AS-23 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
142.9	T-MH-AS-20	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert #20955; 60-in RCP



T-MH-AS-20 Culvert Inlet



T-MH-AS-20 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
142.9	T-MH-AS-20	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert #20955; 60-in RCP



T-MH-AS-20 Culvert Outlet



T-MH-AS-20 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
142.9	T-MH-AS-20	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert #20955; 60-in RCP



T-MH-AS-20 Down Station Roadway



T-MH-AS-20 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
143.2	T-MH-AS-45	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert # 20965; 60-in RCP



T-MH-AS-45 Culvert Inlet



T-MH-AS-45 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
143.2	T-MH-AS-45	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert # 20965; 60-in RCP



T-MH-AS-45 Downstream Culvert

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
143.2	T-MH-AS-45	Unnamed Tributary to Mill River	VT Route 103, Mount Holly	At Culvert	Culvert # 20965; 60-in RCP



T-MH-AS-45 Down Station Roadway



T-MH-AS-45 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
144.8	T-MH-S14	Unnamed Tributary to Branch Brook	VT Route 103, Mount Holly	Over Culvert	Culvert #101203; Concrete Box Culvert



T-MH-S14 Culvert Inlet



T-MH-S-14 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
144.8	T-MH-S14	Unnamed Tributary to Branch Brook	VT Route 103, Mount Holly	Over Culvert	Culvert #101203; Concrete Box Culvert



T-MH-S-14 Culvert Outlet



T-MH-S14 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
144.8	T-MH-S14	Unnamed Tributary to Branch Brook	VT Route 103, Mount Holly	Over Culvert	Culvert #101203; Concrete Box Culvert



T-MH-S14 Down Station Roadway



T-MH-S14 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
145.4	T-MH-S10	Branch Brook	VT Route 103, Mount Holly	HDD	HDD under Branch Brook while crossing under VT-103



T-MH-S10 Upstream Channel



T-MH-S10 from adjacent bank

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
146.4	T-MH-S1	Unnamed Tributary to Branch Brook	VT Route 103, Mount Holly	At Culvert	Culvert #20999, 6-ft CMP; gravel substrate



T-MH-S1 Culvert Inlet



T-MH-S1 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
146.4	T-MH-S1	Unnamed Tributary to Branch Brook	VT Route 103, Mount Holly	At Culvert	Culvert #20999, 6-ft CMP; gravel substrate



T-MH-S1 Culvert Outlet



T-MH-S1 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
146.4	T-MH-S1	Unnamed Tributary to Branch Brook	VT Route 103, Mount Holly	At Culvert	Culvert #20999, 6-ft CMP; gravel substrate



T-MH-S1 Down Station Roadway



T-MH-S1 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
147.9	T-LU-S4	Coleman Brook	VT Route 103, Ludlow	HDD	Culvert #100107; HDD under T-LU-S3, Coleman Brook, and Okemo Ridge Rd



T-LU-S4 Upstream Channel



T-LU-S4 Culvert Interior

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
148.2	T-LU-S2	Branch Brook	VT Route 100, Ludlow	HDD	HDD under Branch Brook, VT-103, and Barton Drive



T-LU-S2, View toward VT Route 100 Bridge



T-LU-S2, View of Channel Upstream from VT Route 100 bridge

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
148.5	T-LU-S5	Unnamed Tributary to Black River	VT Route 100, Ludlow	Duct Bank	Culvert # 11597, 42-in CMP, cobble substrate.



T-LU-S5 Culvert Inlet



T-LU-S5 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
148.5	T-LU-S5	Unnamed Tributary to Black River	VT Route 100, Ludlow	Duct Bank	Culvert # 11597, 42-in CMP, cobble substrate.



T-LU-S5 Culvert Outlet



T-LU-S5 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
148.5	T-LU-S5	Unnamed Tributary to Black River	VT Route 100, Ludlow	Duct Bank	Culvert # 11597, 42-in CMP, cobble substrate.



T-LU-S5 Down Station Roadway



T-LU-S5 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
149.0	T-LU-S1	Black River	East Lake Road, Ludlow	Aerial	Hang on downstream face of Black River Bridge; 51-ft span



T-LU-S1 Upstream Face of Bridge



T-LU-S1 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
149.0	T-LU-S1	Black River	East Lake Road, Ludlow	Aerial	Hang on downstream face of Black River Bridge; 51-ft span



T-LU-S1 Downstream Face of Bridge

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
150.4	T-LU-S21	Unnamed Tributary to Black River	East Lake Road, Ludlow	At Culvert	Culvert #100120; 36-in CPP



T-LU-S21 Culvert Inlet



T-LU-S21 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
150.4	T-LU-S21	Unnamed Tributary to Black River	East Lake Road, Ludlow	At Culvert	Culvert #100120; 36-in CPP



T-LU-S21 Culvert Outlet



T-LU-S21 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
150.4	T-LU-S21	Unnamed Tributary to Black River	East Lake Road, Ludlow	At Culvert	Culvert #100120; 36-in CPP



T-LU-S21 Down Station Roadway



T-LU-S21 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
150.5	T-LU-S20	Unnamed Tributary to Black River	East Lake Road, Ludlow	Aerial	Culvert #100122, 84"x96"; 7-ft oval CMP; hang on concrete headwall



T-LU-S20 Culvert Inlet



T-LU-S20 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
150.5	T-LU-S20	Unnamed Tributary to Black River	East Lake Road, Ludlow	Aerial	Culvert #100122, 84"x96"; 7-ft oval CMP; hang on concrete headwall



T-LU-S20 Culvert Outlet



T-LU-S20 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
150.5	T-LU-S20	Unnamed Tributary to Black River	East Lake Road, Ludlow	Aerial	Culvert #100122, 84"x96"; 7-ft oval CMP; hang on concrete headwall

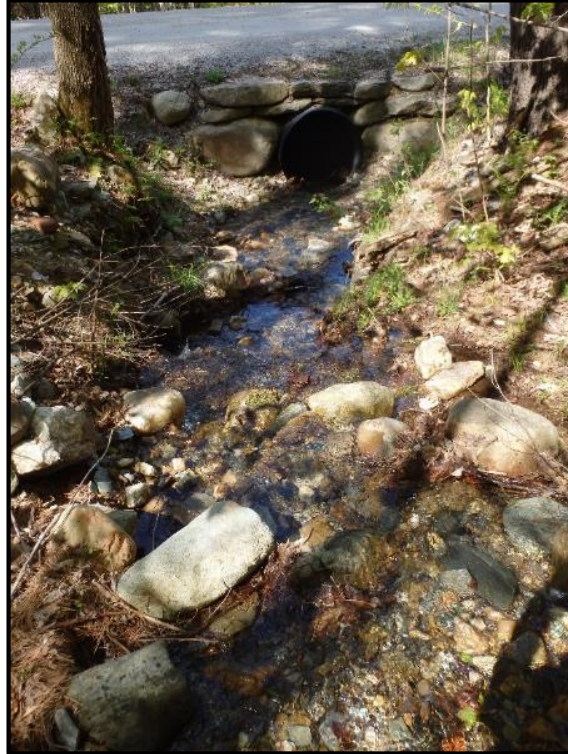


T-LU-S20 Down Station Roadway

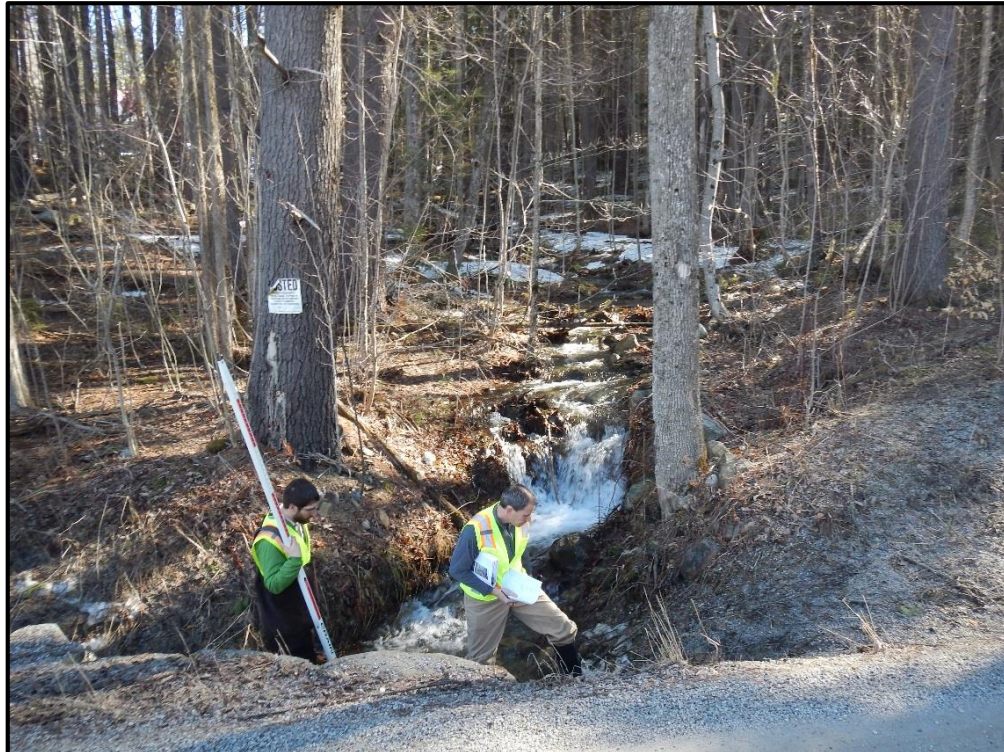


T-LU-S20 Up Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
151.5	T-LU-S15	Unnamed Tributary to Black River	Pettiner Hill Road, Ludlow	At Culvert	Culvert #100129; 40-in CPP



T-LU-S15 Culvert Inlet



T-LU-S15 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
151.5	T-LU-S15	Unnamed Tributary to Black River	Pettiner Hill Road, Ludlow	At Culvert	Culvert #100129; 40-in CPP



T-LU-S15 Culvert Outlet



T-LU-S15 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
151.5	T-LU-S15	Unnamed Tributary to Black River	Pettiner Hill Road, Ludlow	At Culvert	Culvert #100129; 40-in CPP

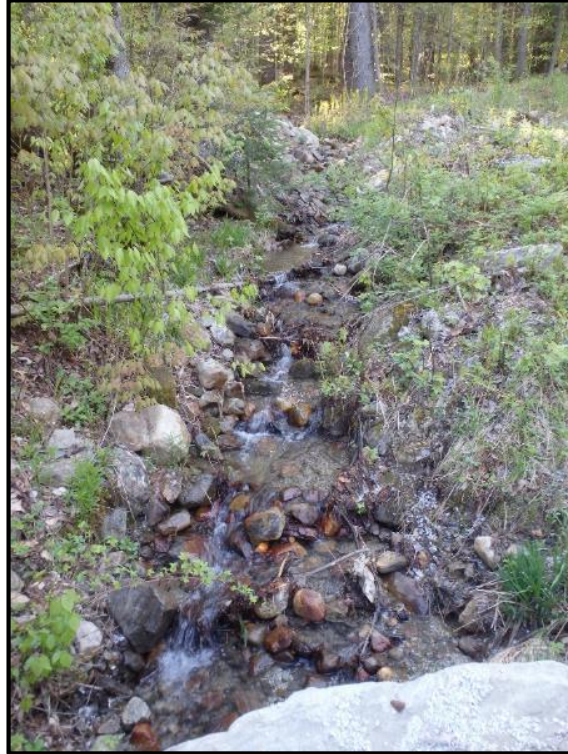


T-LU-S15 Up Station Roadway



T-LU-S15 Down Station Roadway

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
151.6	T-LU-S12	Unnamed Tributary to Black River	Pettiner Hill Road, Ludlow	At Culvert	Culvert #100132; 24-in CPP

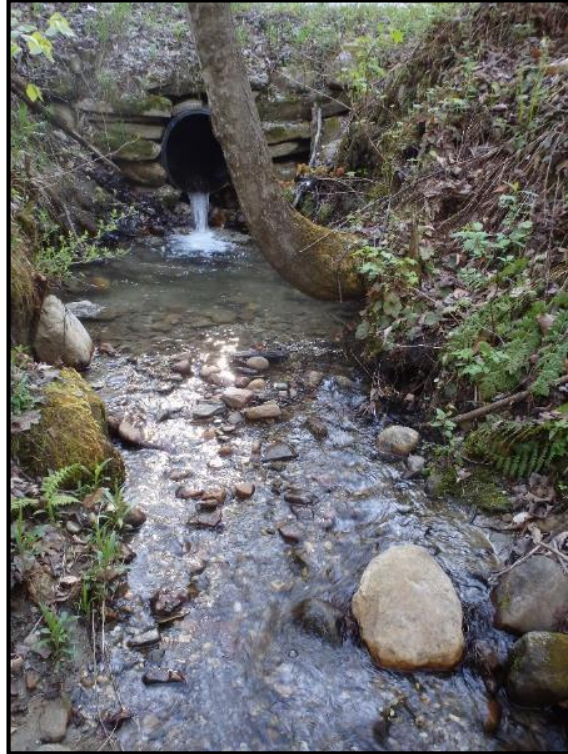


T-LU-S12 Upstream Channel

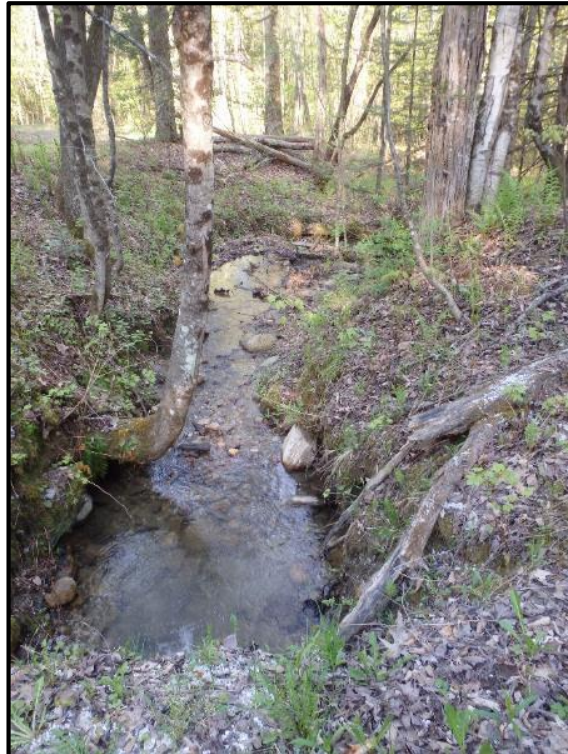


T-LU-S12 Upstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
151.6	T-LU-S12	Unnamed Tributary to Black River	Pettiner Hill Road, Ludlow	At Culvert	Culvert #100132; 24-in CPP



T-LU-S12 Culvert Outlet

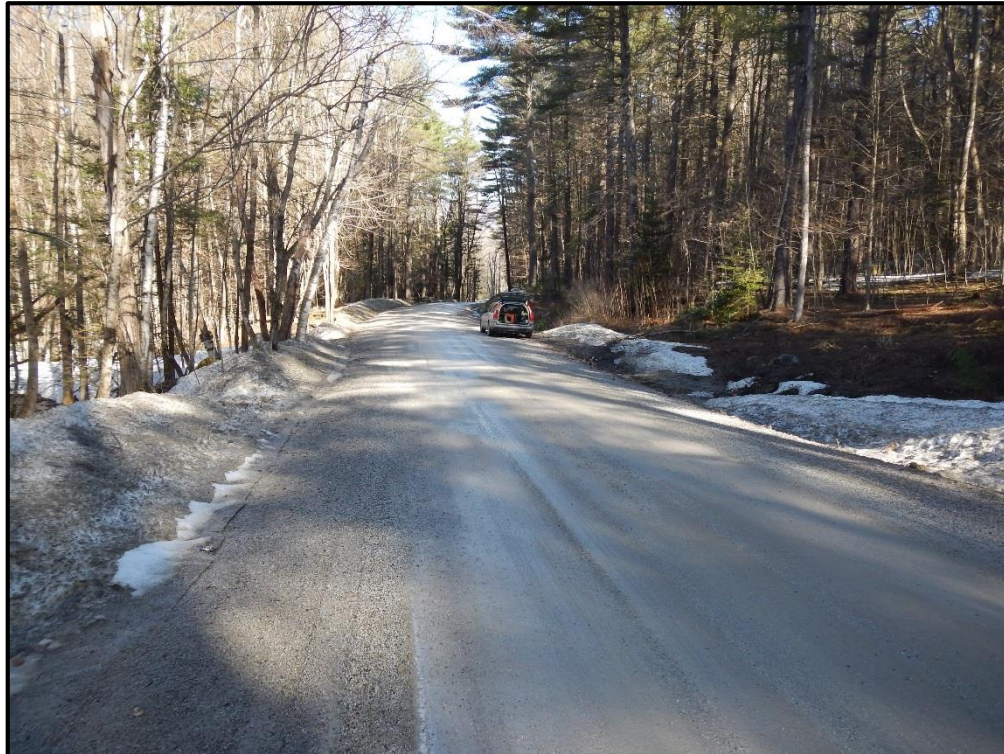


T-LU-S12 Downstream Channel

Mile Post	Stream ID	Stream Name	Right of Way	Proposed Crossing Method	Comment / Crossing Description
151.6	T-LU-S12	Unnamed Tributary to Black River	Pettiner Hill Road, Ludlow	At Culvert	Culvert #100132; 24-in CPP



T-LU-S12 Up Station Roadway



T-LU-S12 Down Station Roadway