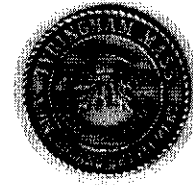




Town of Tyringham



116 Main Rd • PO Box 442 • Tyringham, MA 01264

Phone: (413) 243-1749 Fax: (413) 243-4942 E-Mail: townhall@bcn.net

ADDENDUM #1 T-10-002 Bridge Scour Repair.

(Bidder questions & answers, cost estimate sheet and 2 drawings signed by Bridge Engineer, and Gill Engineering) Any further questions, please contact the Town of Tyringham, Selectmen's Office at (413) 243-1749 X 101.

Here are the responses to Contractor's questions:

1. Is this bid to be submitted as a LS contract or will there be unit prices? No bid form was provided. The Town would rather have the repair done as a LS contract versus unit prices.
2. Referring to construction note 4 on sheet 1 of 2, "Contractor shall use small hand equipment within stream and shall not obstruct more than 50% of flow through the stream channel".
 - a. Will contractor be allowed to bring small equipment within the water control areas of the river? Yes. Once the water is diverted small equipment may be used to haul material to the repair location through the water controlled areas.
 - b. Will contractor be allowed to use small equipment in river to install water controls? It may be allowed if it meets the requirements of the Army Corp of Engineers General Permit. Activity shall not create turbidity or sedimentation. Please see ACOE permit in the Technical Specifications and <http://www.nae.usace.army.mil/Missions/Regulatory/State-General-Permits/Massachusetts-General-Permit/> for specific requirements.
3. Is contractor to restore the the full 16'Wx44'L stream bed area per the cross section details? Please see latest amended plans which shows a 6'Wx45'L stream bed repair at each abutment.
 - a. If yes, will small equipment be allowed in stream for this or must it be accomplished by hand? See response to question 2b.

File No

Office Calc: ----

**TOWN OF TYRINGHAM
HIGHWAY DEPARTMENT
- COST ESTIMATE -
BRIDGE ESTIMATE**

Sta. 10+00 to Sta. 10+25.0

Sta. to Sta.

Sta. to Sta.

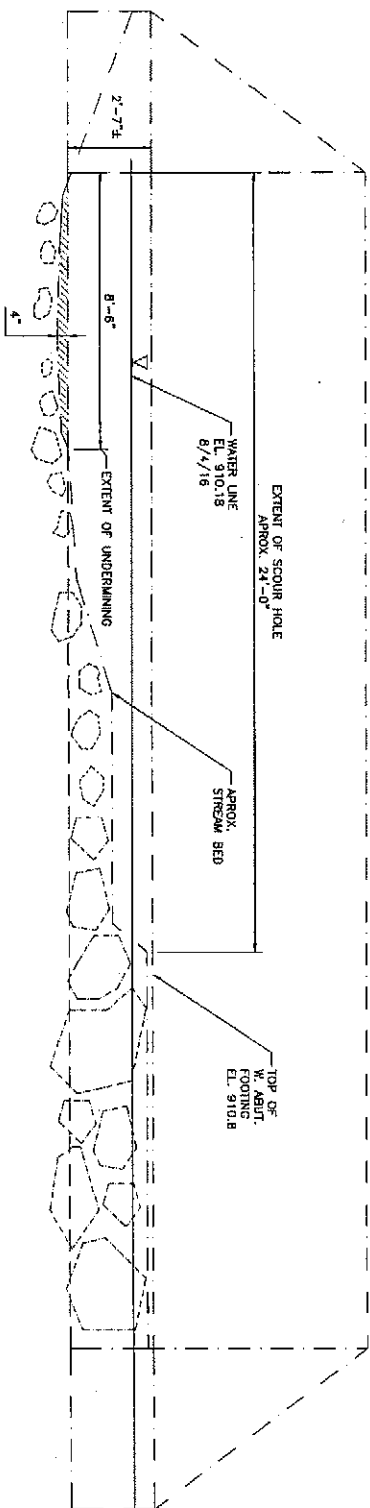
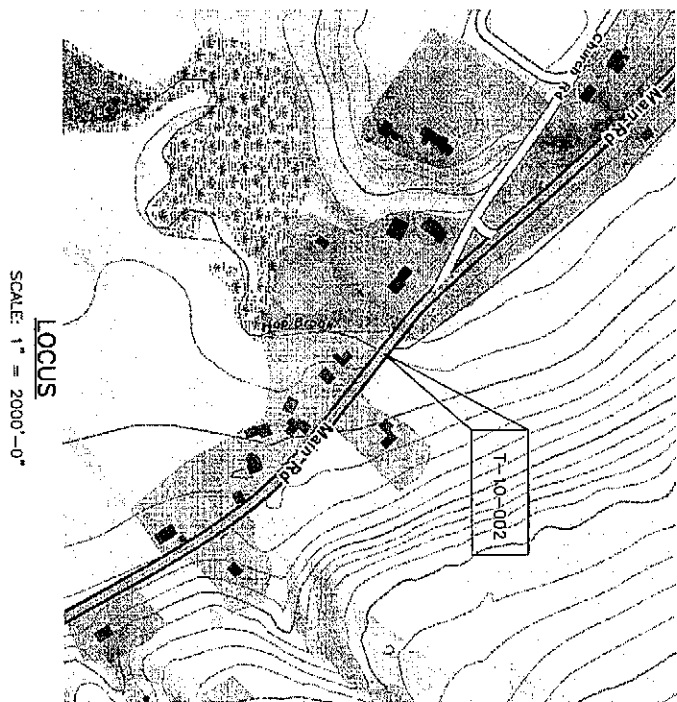
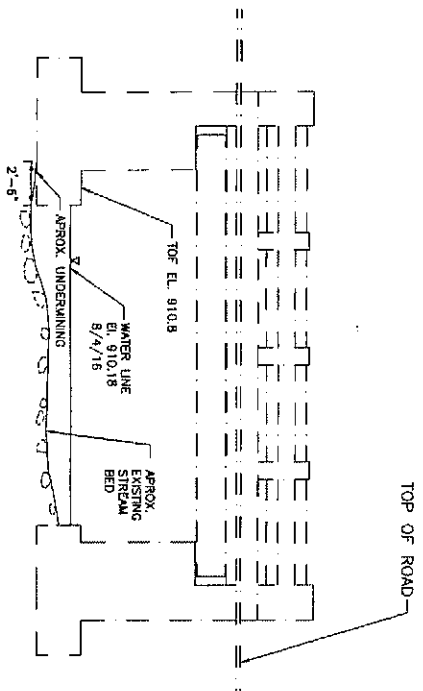
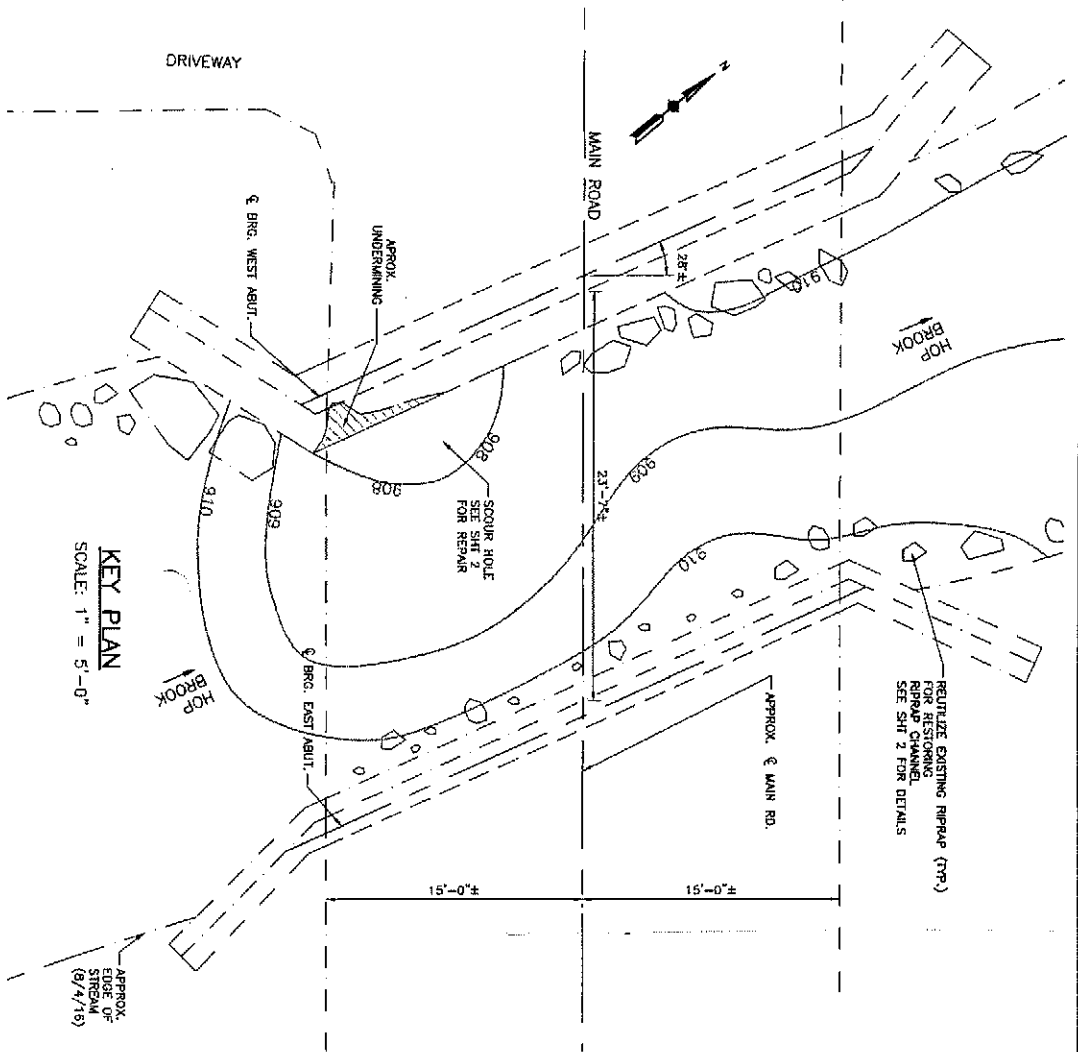
Town - City TyringhamRoad Main Rd. Over Hop BrookClass Rural Major CollectorLength Contract 0.006 mi

Length Fed. Aid

Type: Scour Mitigation

October 2016.

ITEM	QUANTITY	UNITS	DESCRIPTION		UNIT PRICE	AMOUNT
143	30	CY	CHANNEL EXCAVATION		\$ 50.00	\$ 1,490.00
156.5	9	CY	CRUSHED STONE FOR FILTER FABRIC		\$ 60.00	\$ 527.22
281.6	18	CY	COBBLE STONE		\$ 60.00	\$ 1,080.00
698.3	117	SY	GEOTEXTILE FABRIC FOR SEPARATION		\$ 15.00	\$ 1,755.83
748	1	LS	MOBILIZATION		\$ 20,000.00	\$ 20,000.00
983.1	72	TONS	RIPRAP		\$ 58.00	\$ 4,182.20
988.3	5.8	CY	CHANNEL PAVING-GROUT FILLED BAGS		\$ 5,000.00	\$ 29,200.00
991.1	1.0	LS	CONTROL OF WATER - STRUCTURE NO. T-10-002		\$ 10,000.00	\$ 10,000.00
				CONSTRUCTION COST =		\$ 68,235.26
				CONTINGENCY % =		10%
				CONTINGENCY =		\$ 6,823.53
				CONSTRUCTION COST W/ CONTINGENCY =		\$ 75,058.78



ESTIMATED QUANTITIES	
NOT GUARANTEED	
DESCRIPTION	UNIT
CHANNEL EXCAVATION	CY
CRUSHED STONE FOR FILTER FABRIC	CY
COBBLE STONE	CY
GEOTEXTILE FABRIC FOR SEPARATION	SY
MOBILIZATION	LS
CHANNEL PAVING-GROUT FILLED BAGS	TON
CONTROL OF WATER-STRUCTURE NO. T-02-002	CY
	LS

- GENERAL NOTES**
- PLANS OF THE EXISTING BRIDGE T-10-002 DO NOT EXIST. DIMENSIONS SHOWN ARE APPROXIMATE AND ARE FOR INFORMATION PURPOSES. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS.
 - EXISTING CONDITIONS ARE ONLY SHOWN ON SHEET 1 AND ARE PER 2012, 2014, AND 2016 FIELD INVESTIGATIONS.

- CONSTRUCTION NOTES**
- CONTRACTOR SHALL PERFORM ALL PROPOSED WORK IN COMPLIANCE WITH THE ORDER OF CONDITIONS ISSUED BY THE TYRINGHAM CONSERVATION COMMISSION AND THE U.S. ARMY CORPS OF ENGINEERS GENERAL PERMIT. SEE SPECIAL PROVISIONS FOR SUBMITTAL REQUIREMENTS.
 - MATERIAL, EXCAVATE FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
 - CONTRACTOR SHALL USE SMALL HAND EQUIPMENT WITHIN STREAM AND SHALL NOT OBSTRUCT MORE THAN 50% OF FLOW THROUGH THE STREAM CHANNEL.

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN. LAWS CH 85 S 35
[Signature] 2/16/18
BRIDGE ENGINEER DATE

SCOUR REPAIR PLANS
TOWN OF TYRINGHAM

BRIDGE REPAIRS FOR TYRINGHAM T-10-002
MAIN ROAD OVER HOP BROOK

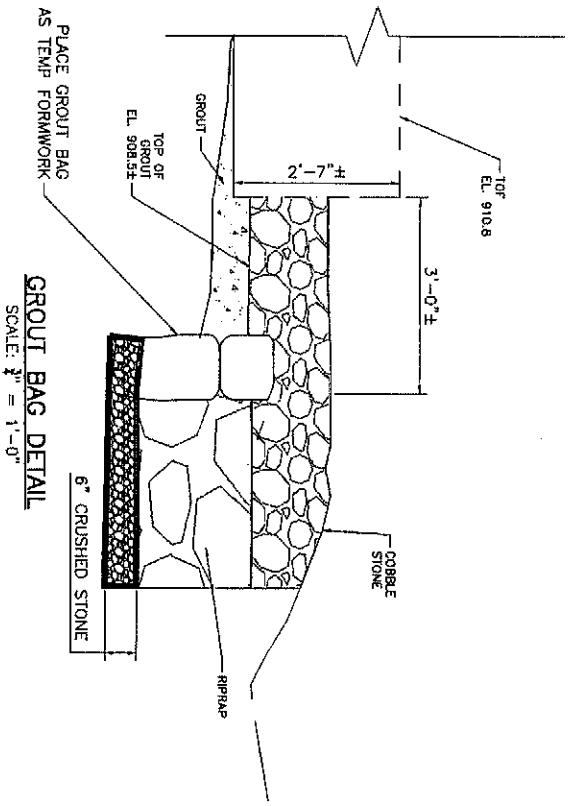
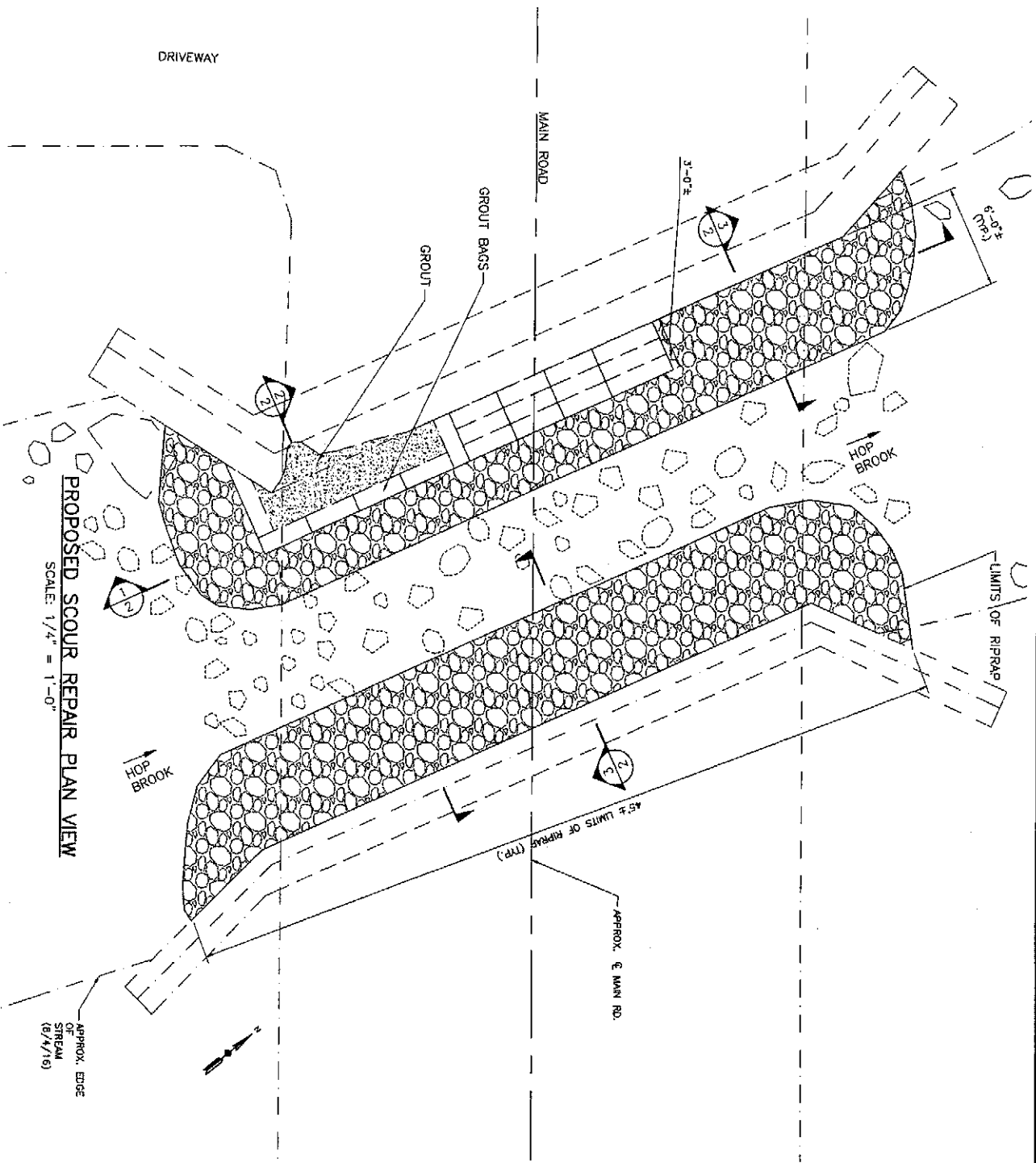


DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION
11/15/2018	YS	YS	KTN	FOR REVIEW AND PERMIT
05/04/2019	YS	YS	KTN	FOR FINAL APPROVAL
07/03/2017	YS	YS	KTN	REVISED PER PERMIT
08/31/2017	YS	YS	KTN	REVISED PER PERMIT
02/15/2018	YS	YS	KTN	FOR CHP. 80 SIGNATURE

REGISTERED PROFESSIONAL ENGINEER DATE

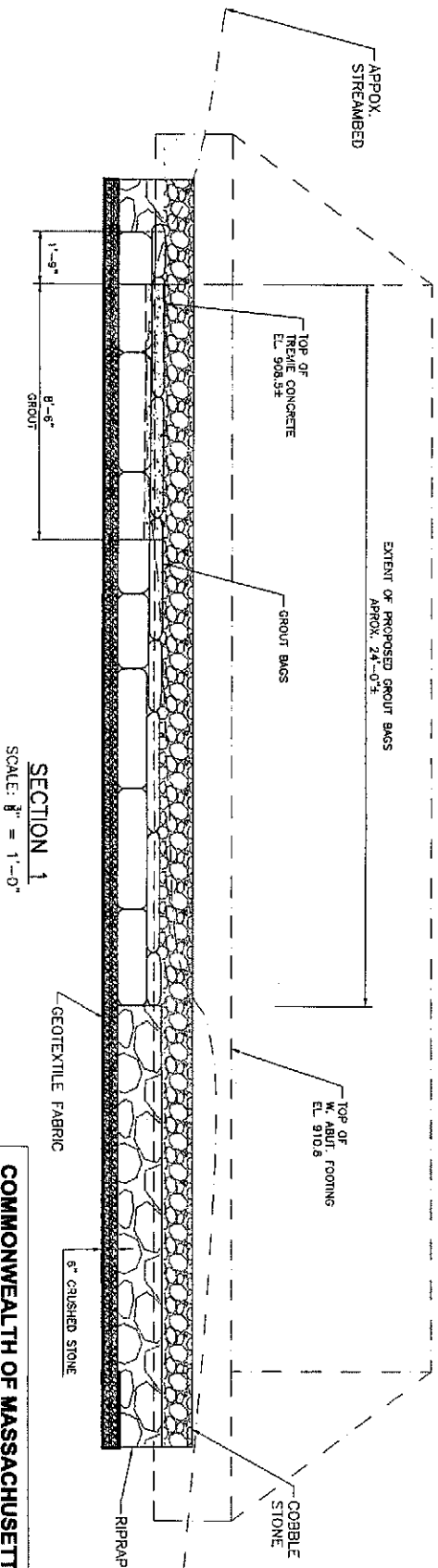
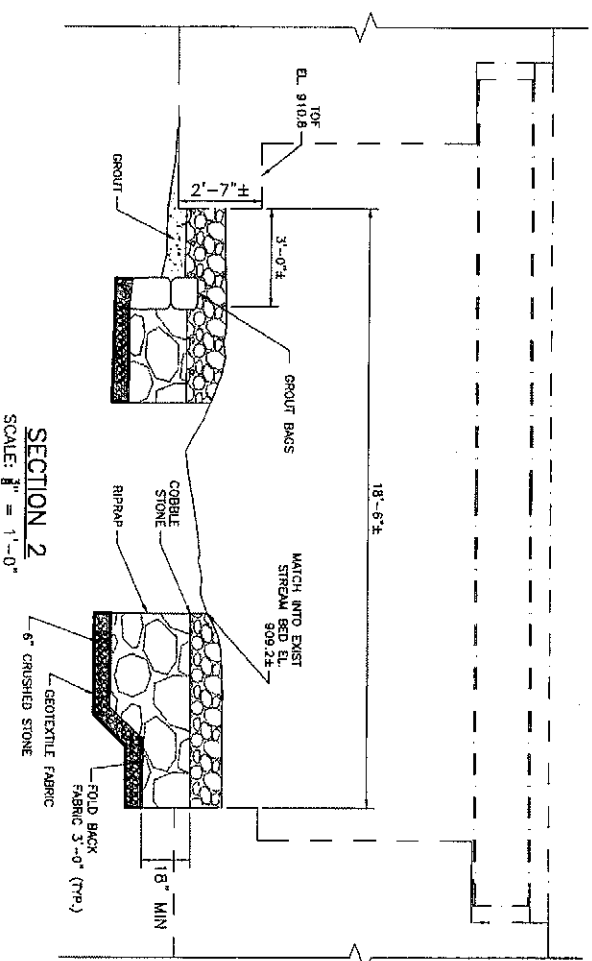
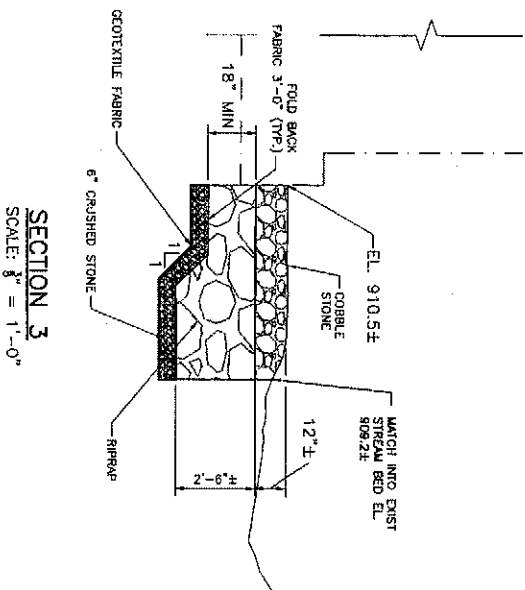


63 KENDRICK STREET
NEEDHAM, MA 02494
781-355-7100
781-355-7101 (FAX)



- GENERAL NOTES**
1. THE WORK AND MATERIAL SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1998 AND SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015.
- MATERIALS**
1. SEE SPECIAL PROVISIONS FOR GROUT AND GROUT BAGS
 2. RIPRAP SHALL MEET THE REQUIREMENTS OF DUMPED RIPRAP (M2.02.2)
 3. COBBLE STONE SHALL BE ROUNDED AND SHALL MEET THE NATURAL D50 STONE SIZE OF THE EXISTING STREAM BED OF 9 INCHES.

- SUGGESTED SEQUENCE OF SCOUR REPAIR**
1. INSTALL CONTROL OF WATER SYSTEM TO PREVENT ANY DEBRIS CONTAMINATION OF THE STREAM AND ALLOW THE WORK TO BE DONE IN THE DRY DURING THE REPAIRS. THE CONTROL OF WATER SYSTEM MAY CONSIST OF SAND BAGS OR A CULVERT PIPE IN COMBINATION WITH SANDBAGS OR A SYSTEM APPROVED BY THE ENGINEER.
 2. PER DETAILS SHOWN, EXISTING STONE MEETING THE GRADATION REQUIREMENTS MAY BE REUTILIZED.
 3. THEREFORE STACK AS NEEDED.
 4. PLACE GEOTEXTILE FABRIC AND CRUSHED STONE PER DETAIL SHOWN. SEE RIPRAP DETAIL.
 5. ENCOMPASS THE UNDERMINED AREA. SEE GROUTBAG DETAIL.
 6. PLACE ADDITIONAL GROUT BAGS TO LIMITS SHOWN.
 7. INSTALL IN-STREAM BED RIPRAP REUTILIZING EXISTING STONES HAVING A MINIMUM DIAMETER OF 10" (50 LBS). PROVIDE NEW STONE AS NEEDED.
 8. INSTALL COBBLE STONE OVER RIPRAP AND GROUT BAGS FROM THE EXISTING STREAM BED EXCAVATION. PROVIDE ADDITIONAL STONE AS NEEDED.



COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN LAWS CH 86 S 35
David C. [Signature] 2/16/18
 BRIDGE ENGINEER DATE

SCOUR REPAIR PLANS
 TOWN OF TYRINGHAM

BRIDGE REPAIRS FOR TYRINGHAM T-10-002
 MAIN ROAD OVER HOP BROOK



DATE	DRW. BY	CALC. BY	APPR. BY	DESCRIPTION
11/15/2016	SV	SV	SV	FOR REVIEW BY CLIENT
04/04/2017	SV	SV	SV	FOR FINAL APPROVAL
07/05/2017	SV	SV	SV	REVISED PER PERMIT
08/31/2017	SV	SV	SV	REVISED PER PERMIT
02/16/2018	SV	SV	SV	FOR COMP. BY SIGNATURE

GILL
 ENGINEERING

83 KENDRICK STREET
 NEEDHAM, MA 02464
 781-355-7100
 781-355-7101 (FAX)

PROPOSED
 SCOUR
 REPAIR
 SHEET 2 OF 2