PUBLIC NOTICE

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US Army Corps of Engineers ® New England District 696 Virginia Road Concord, MA 01742-2751 Comment Period Begins: July 22, 2014 Comment Period Ends: August 21, 2014

File Number: NAE-2014-00987 In Reply Refer To: Dan Vasconcelos

Phone: (978) 318-8653

E-mail: daniel.b.vasconcelos@usace.army.mil

The District Engineer has received a permit application to conduct work in waters of the United States from the Massachusetts Department of Transportation – Highway Division (MassDOT), 10 Park Plaza, Boston, Massachusetts 02116. This work is proposed in Amethyst Brook at Meetinghouse Road, Pelham, Massachusetts. The site coordinates are: Latitude 42.379913°, Longitude -72.449841°.

Although this project may have only minimal impacts and may be eligible for authorization under the current Massachusetts General Permit, the work is not expected to begin until after the General Permit expires on January 20, 2015. The applicant is seeking an individual permit to allow for a full five years in which to complete the work.

The work involves the temporary discharge of 380 square feet of fill material into Amethyst Brook associated with the replacement of the bridge (No. P-04-006) conveying Meetinghouse Road over Amethyst Brook in Pelham, Massachusetts. The purpose of the work is to replace the deteriorated superstructure and substructure of the bridge with a new bridge structure. The proposed work would replace the existing single-span structure with a new single-span structure, and also includes limited approach work. The new concrete abutments would be constructed behind the existing dry laid fieldstone abutments. The existing abutments will be retained but cut down slightly to provide adequate clearance for the new bridge. The remaining portions of the existing abutments will be repaired by pointing and grouting. Section 404 impacts are limited to the installation of two temporary sandbag cofferdams to allow repairs to the existing abutments to occur under dry conditions. No other work is proposed within the river and flow will be maintained throughout construction.

The work is shown on the attached plans entitled "PROPOSED BRIDGE, PELHAM, MEETINGHOUSE ROAD OVER AMETHYST BROOK" on 9 sheets, and dated "July 9, 2014".

In developing plans for replacing the Meetinghouse Road Bridge, MassDOT considered ways to avoid and minimize impacts to waters of the United States, including wetlands. Steps to avoid and minimize impacts to wetlands and waterways include installing compost filter tubes to control sediment, conducting repair work within a sandbag cofferdam to reduce turbidity, and installation of shielding to prevent debris from entering the river. No compensatory mitigation is proposed because the impacts are minimal and temporary.

AUTHORITY

Permits are required pursuant to:
Section 10 of the Rivers and Harbors Act of 1899
X Section 404 of the Clean Water Act
Section 103 of the Marine Protection, Research and Sanctuaries Ac

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The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

NATIONAL HISTORIC PRESERVATION ACT

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s)

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the project site. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or

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threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our determination.

The following authorizations have been applied for, or have been, or will be obtained:

- () Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Dan Vasconcelos at (978) 318-8653, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

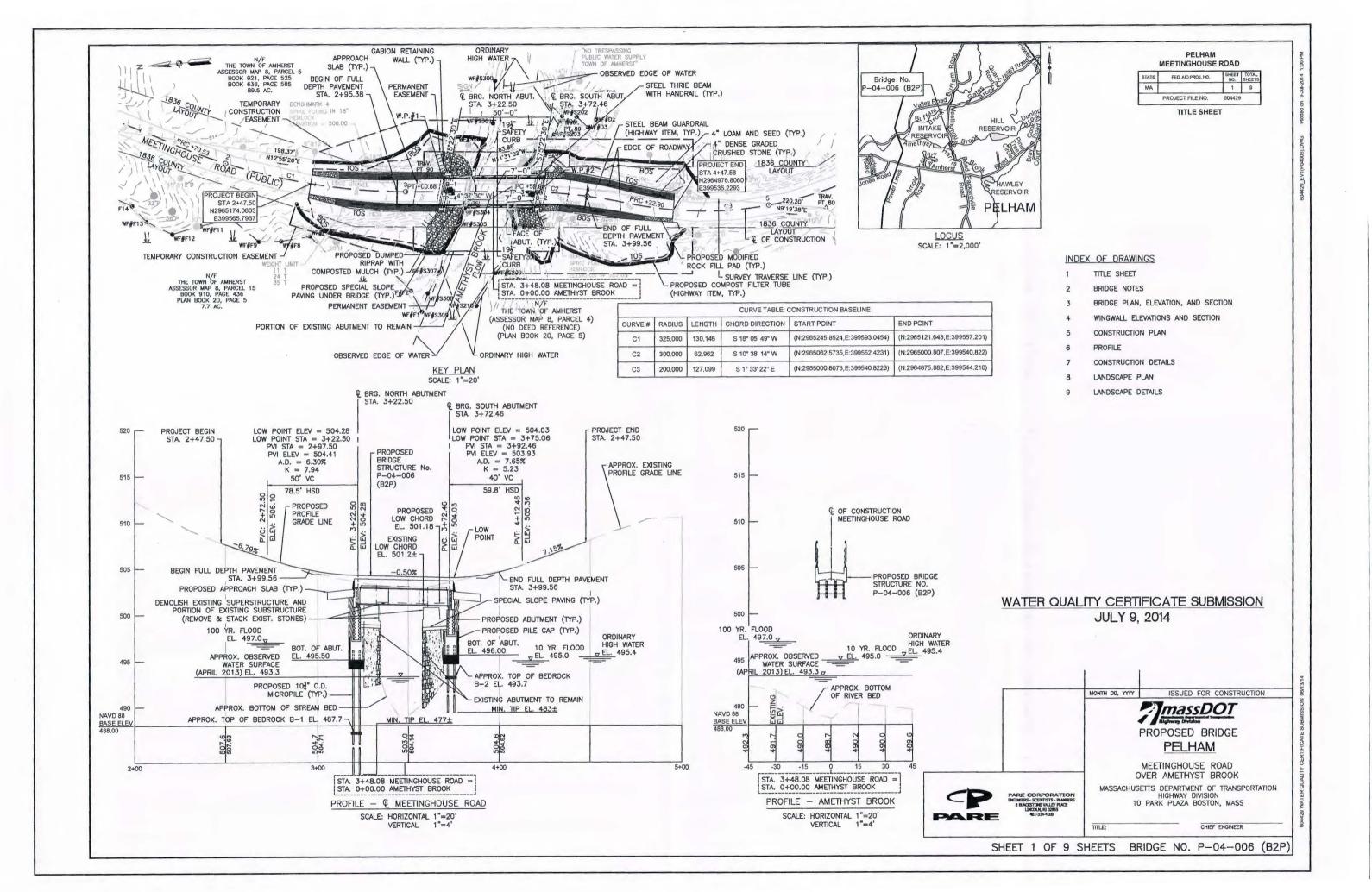
Karen K. Adams

Chief, Permits and Enforcement Branch

Regulatory Division

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME:	
ADDRESS:	
PHONE:	



IN ACCORDANCE WITH THE 2012 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS. WITH CURRENT INTERIM SPECIFICATIONS THROUGH 2013 FOR HL-93 LOADING.

EXISTING CONDITIONS
ALL DIMENSIONS AND DETAILS SHOWN FOR THE EXISTING STRUCTURE ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENTS AND SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL HE/SHE HAS MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER. EXISTING STRUCTURE IS SHOWN THUS -AS NOTED.

SURVEY NOTEBOOKS ELECTRONIC SURVEY WAS USED. A COPY OF THE DATA FILE MAY BE OBTAINED FROM MASSACHUSETTS DEPARTMENT OF TRANSPORTATION.

BENCHMARK

BENCHMARK 4, SPIKE IN 18" HEMLOCK CONSTRUCTION BASELINE STA. 2+77.45, 16.31' LT BENCHMARK 3, SPIKE IN 16" HEMLOCK CONSTRUCTION BASELINE STA. 3+85.50, 13.20' RT

ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

DATE TO BE PLACED ON THE OUTSIDE FACE OF THE DECK EXTERIOR EDGE AT MIDSPAN, BOTH SIDES. A SHEET SHOWING THE SIZE AND CHARACTER OF NUMERALS WILL BE FURNISHED. THE DATE USED SHALL BE THE LATEST YEAR OF CONTRACT COMPLETION AS OF THE DATE THE FIRST SAFETY CURB IS CONSTRUCTED. BOTH SIDES SHALL FEATURE THE SAME DATE.

FOUNDATIONS
FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE APPROVAL OF THE

UNSUITABLE MATERIAL

ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE AS DIRECTED BY THE

SEISMIC GROUND SHAKING HAZARD

DESIGN SPECTRA: $A_{S} = 0.066$ $S_{OS} = 0.156$ $S_{D1} = 0.063$ SITE CLASS = C

SEISMIC DESIGN CATEGORY (SDC) = A

ANCHOR BOLTS
ALL BRIDGE BEARING ANCHOR BOLTS SHALL BE SET BY TEMPLATE BEFORE THE CONCRETE IS PLACED, EXCEPT AT ABUTMENTS, WHERE CORING AND GROUTING MAY BE USED AT THE CONTRACTOR'S OPTION, PROVIDED THAT THE METHOD OF INSTALLATION WILL NOT CUT

REINFORCEMENT
REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

MC	DIFICATION CONDITION	#4 BARS	#5 BARS
1.	NONE	21"	26"
2.	12" OF CONCRETE BELOW BAR	29"	36"
3.	COATED BARS, COVER < 3db, OR	31"	39"
	CLEAR SPACING < 6db		
4.	COATED BARS, ALL OTHER CASES	25"	31"
5.	CONDITION 2. AND 3.	35"	44"
6.	CONDITION 2. AND 4.	34"	43"

IF THE ABOVE BARS ARE SPACED 6" OR MORE ON CENTER, THE LAP LENGTH SHALL BE 80% OF THE LAP LENGTH GIVEN ABOVE. ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION

REINFORCING STEEL PLACED AT THE FOLLOWING LOCATIONS SHALL BE EPOXY COATED: ABUTMENT STEMS, CURTAIN WALL, AND BACKWALLS; BRIDGE DECKS AND SAFETY CURBS; END DIAPHRAGMS AND KEEPER BLOCKS. ALL OTHER REINFORCING SHALL BE UNCOATED.

UTILITIES
THE CONTRACTOR SHALL LOCATE AND PROTECT FROM DAMAGE ALL EXISTING UTILITIES.

CONCRETE MIXES

THE FOLLOWING ELEMENTS ARE PREAST: ABUTMENT STEMS AND CURTAIN WALLS, ABUTMENT BACKWALLS, APPROACH SLABS.

(2) TO BE USED IN CONSTRUCTION OF: ABUTMENTS, PILE CAPS, APPROACH SLAB, APPROACH SLAB CLOSURE 4000 12 565 POURS, SUBSTRUCTURE CLOSURE

4000 585 HP CEMENT CONCRETE 610

BRIDGE DECK, END DIAPHRAGM ABUTMENT SHEAR KEYS, BACKWALLS, KEEPER BLOCKS

685 HP CEMENT 5000 } CONCRETE

SAFETY CURBS

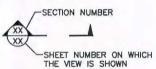
(1) 28 DAY COMPRESSIVE STRENGTH (PSI) (2) MAXIMUM AGGREGATE SIZE (IN) (3) CEMENTITIOUS CONTENT (POUND/C.Y.)

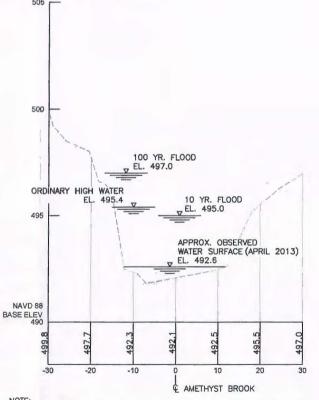
STRUCTURAL STEEL
ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50 UNLESS OTHERWISE NOTED HEREIN. ALL STRUCTURAL STEEL SHALL BE HOT-DIP

4000 1

SCALES NOTED ON THE PLANS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS. DIVIDE SCALES BY 2 FOR HALF SIZE PRINTS.

SECTION MARK





APPROACH CHANNEL GRADING WILL NOT BE ALTERED BY BRIDGE CONSTRUCTION.

CHANNEL APPROACH SECTION SCALE: HORIZONTAL 1"=10' VERTICAL

SECTION AT APPROXIMATELY 40 FEET UPSTREAM OF PROPOSED BRIDGE CENTERLINE OF CONSTRUCTION.

PELHAM MEETINGHOUSE ROAD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL
MA		2	9
	PROJECT FILE NO.	604429	

BRIDGE NOTES

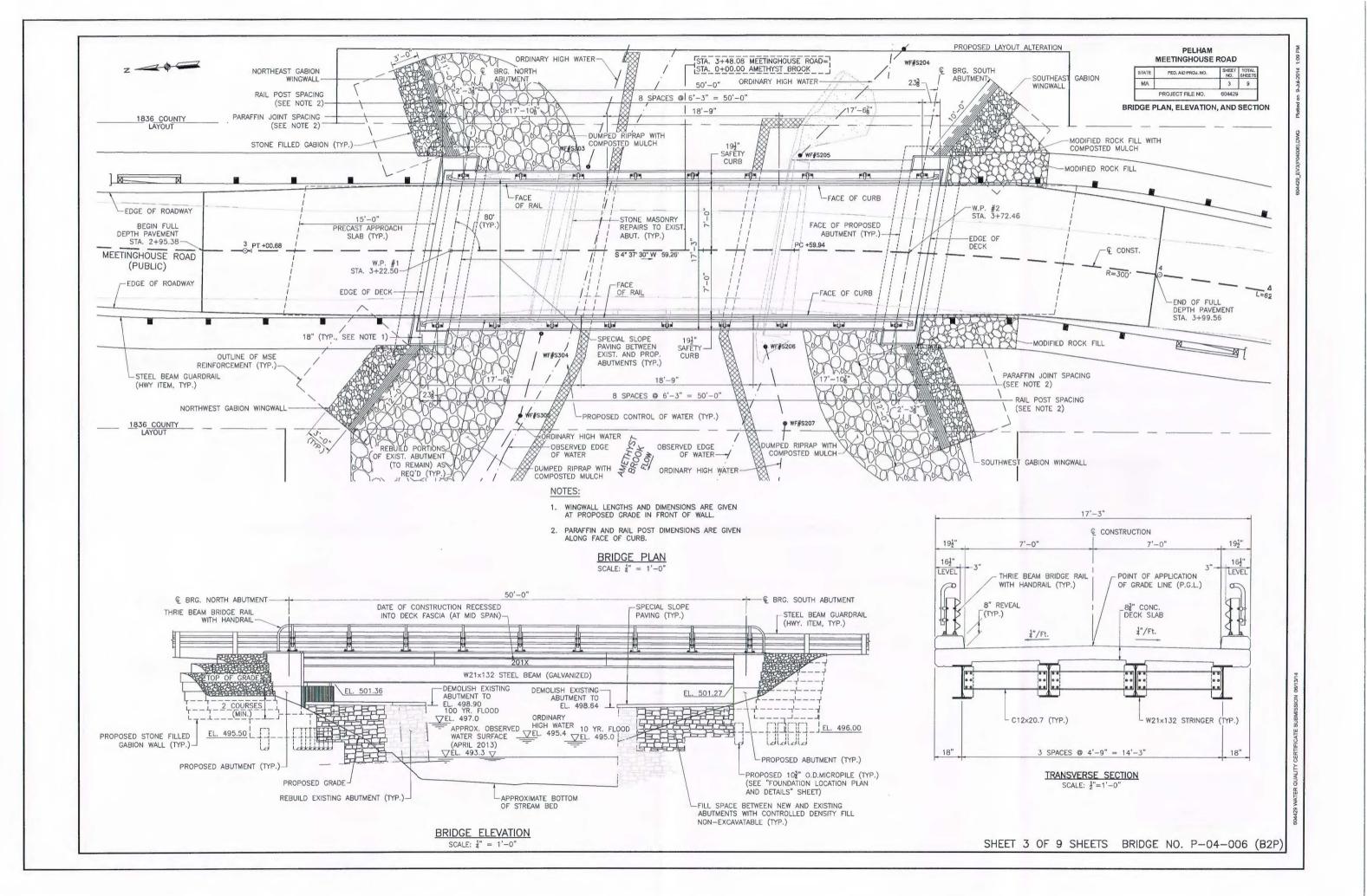
ESTIMATED QUANTITIES (NOT GUARANTEED)		
DEMOLITION OF BRIDGE NO. P-04-006(ORM)	1	LS
REINFORCED CONCRETE EXCAVATION	50	CY
BRIDGE EXCAVATION	230	CY
GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	60	CY
CONTROLLED DENSITY FILL - NON-EXCAVATABLE	6	CY
CRUSHED STONE	170	TON
CRUSHED STONE FOR BRIDGE FOUNDATIONS	80	TON
GABIONS	40	CY
STONE MASONRY ABUTMENT IN CEMENT MORTAR	20	CY
STONE MASONRY WALL REMOVED AND REBUILT IN CEMENT MORTAR	10	CY
STONE MASONRY ABUTMENT REPAIR	110	CF
GEOTEXTILE FABRIC FOR PERMANENT EROSION CONTROL	800	SY
COMPOST TOP SOIL	60	CY
SEEDING - RESTORATION MIX	800	SY
STRAW MULCH	500	SY
COMPOSTED MULCH FOR MODIFIED ROCK FILL	300	SY
MATTING FOR EROSION CONTROL	30	5Y
DRILLED MICROPILE 10-3/4 INCH OUTSIDE DIAMETER	500	FT
MICROPILE VERIFICATION LOAD TEST	2	EA
MODIFIED ROCK FILL	180	TON
SPECIAL SLOPE PAVING UNDER BRIDGE - CEMENT CONCRETE	60	SY
CONTROL OF WATER - STRUCTURE NO. P-04-006 (B2P)	1	LS
BRIDGE STRUCTURE, BRIDGE NO. P-04-006 (B2P)	1	LS

HYDRAULIC DATA

DRAINAGE AREA:	4.4 SQUARE MILES
DESIGN DISCHARGE:	
DESIGN FREQUENCY:	
DESIGN VELOCITY:	9.0 FEET PER SECOND
DESIGN HIGH WATER	ELEVATION: 495.0 FEET

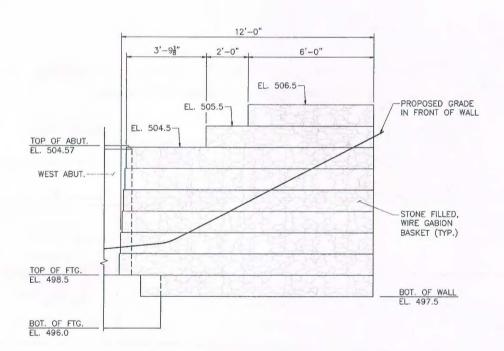
BASE (100-YEAR) FLOOD DATA Q (100 YEAR): 959 CUBIC FEET PER SECOND WATER SURFACE ELEVATION: 497.0 FEET

FLO	OD RECORD
Q =	UNKNOWN CUBIC FEET PER SECOND
FREQUENCY (IF KNOWN):_	UNKNOWN YEARS
DATE:	UNKNOWN
HISTORY OF ICE FLOES:	NONE DOCUMENTED
EVIDENCE OF SCOUR AND	EROSION: SOME OF THE BEARING
	STONES OF THE EXISTING
	SOUTH ABUTMENT AND
	WINGWALL HAVE BEEN
	UNDERMINED/DISPLACED

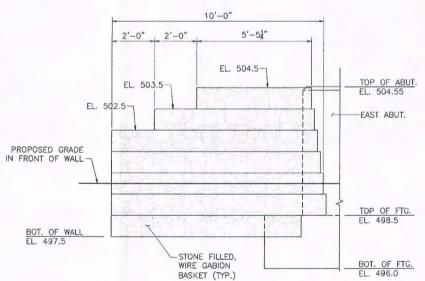


12'-0" 4'-63" EL. 504.5-TOP OF ABUT. EL. 504.81 EL. 503.5-EL. 502.5--WEST ABUT. PROPOSED GRADE IN FRONT OF WALL-BOT. OF WALL EL. 497.5 -STONE FILLED, WIRE GABION BASKET (TYP.) BOT. OF FTG. EL. 495.5

NORTHWEST WINGWALL ELEVATION SCALE: $\frac{1}{2}$ " = 1'-0"

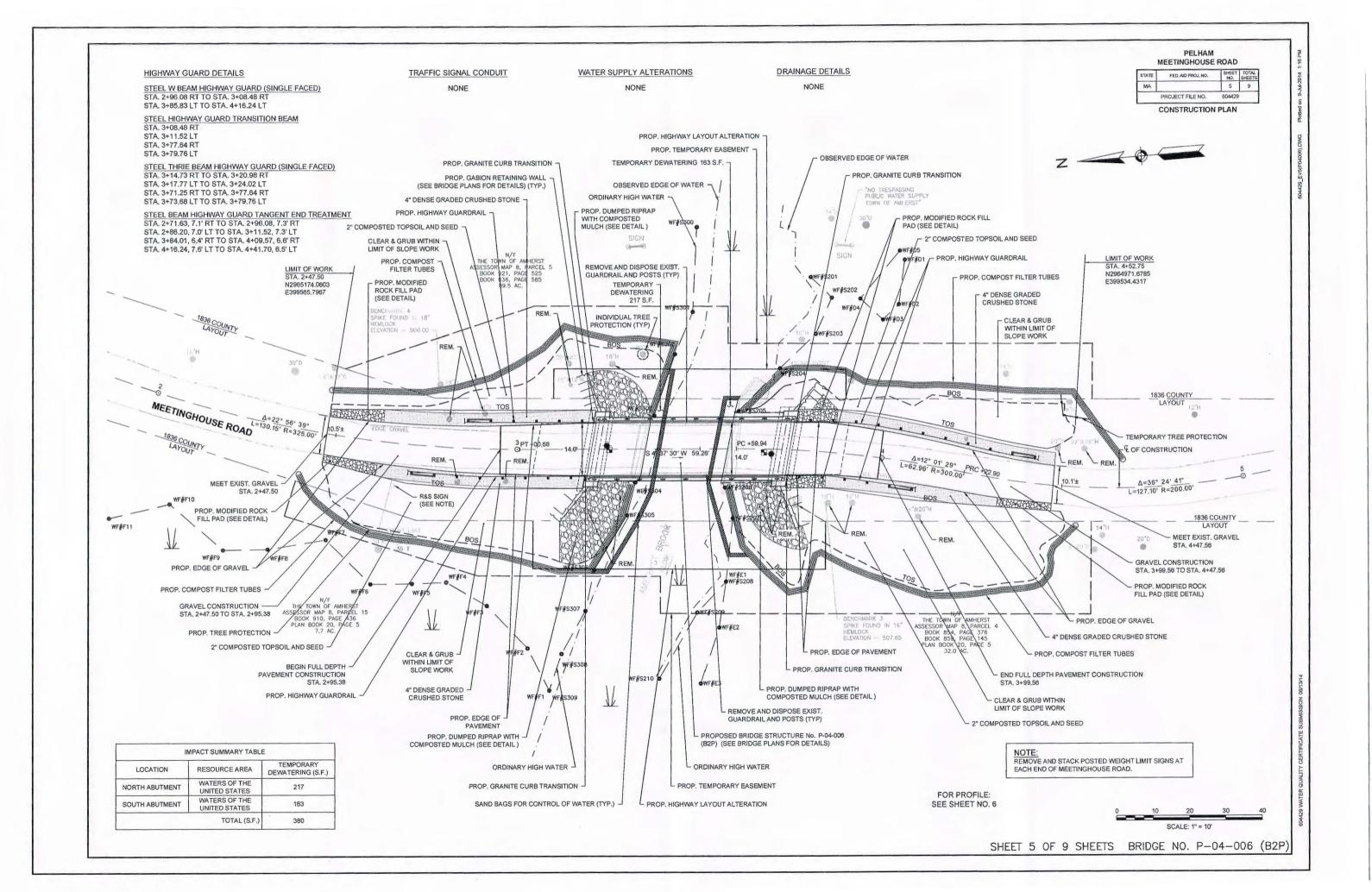


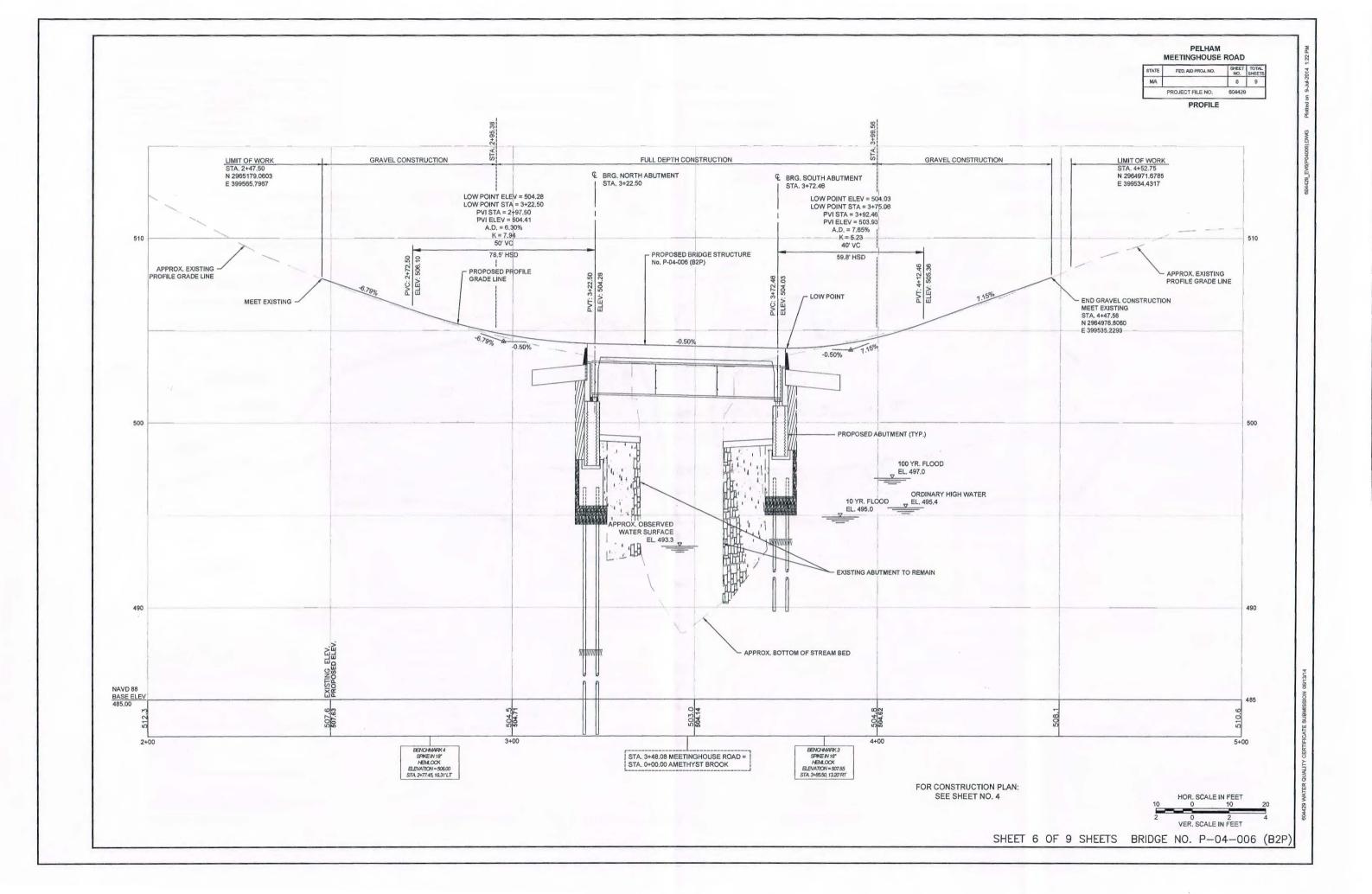
SOUTHWEST WINGWALL ELEVATION SCALE: $\frac{1}{2}$ " = 1'-0"

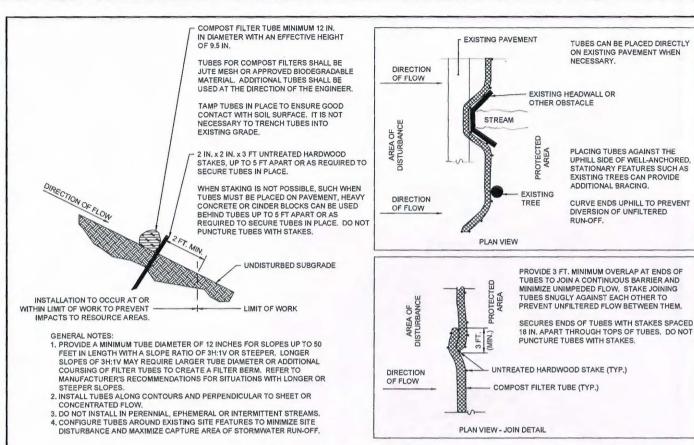


SOUTHEAST WINGWALL ELEVATION SCALE: $\frac{1}{2}$ " = 1'-0"

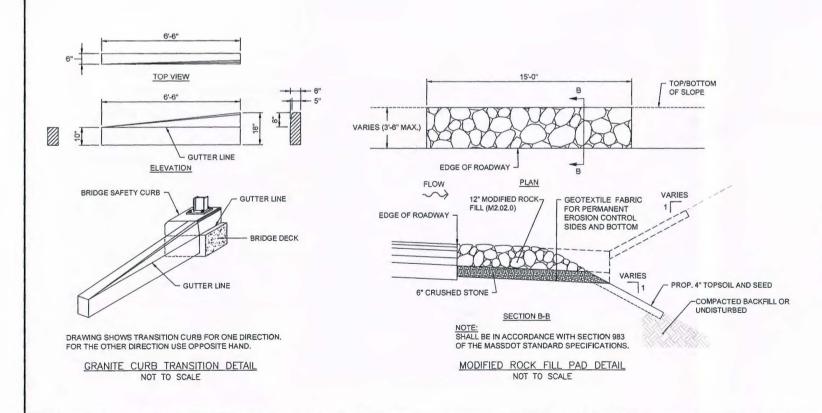
SEE "SECTION—GABION WALL" ON THIS SHEET FOR MSE, CRUSHED STONE, AND GABION BASKET CONSRUCTION DETAILS.

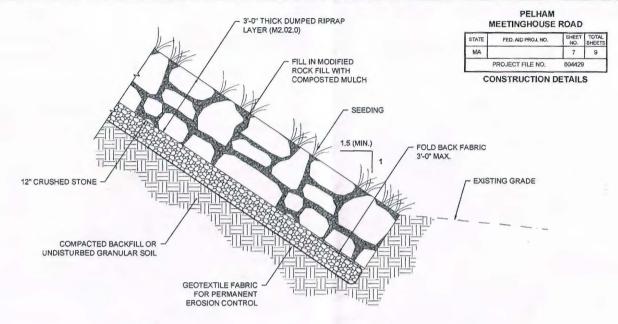






SINGLE COMPOST FILTER TUBE DETAIL NOT TO SCALE

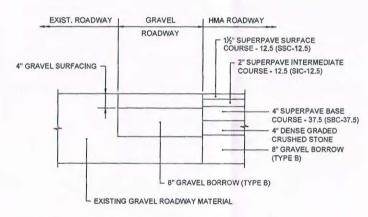




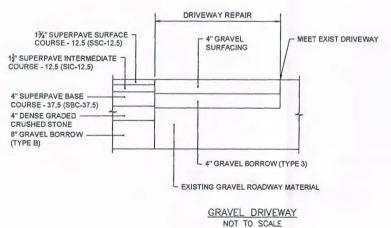
NOTES:

- 1. ALL RECOMMENDATIONS SHALL BE UTILIZED FOR INSTALLATION.
- 2. IF BEDROCK IS ENCOUNTERED CLOSER THAN 3'-0" TO FINISH GRADE, ELIMINATE CRUSHED STONE LAYER THICKNESS AND GEOTEXTILE FABRIC.

NOT TO SCALE



GRAVEL ROAD TO HMA TRANSITION NOT TO SCALE



SHEET 7 OF 9 SHEETS BRIDGE NO. P-04-006 (B2P)

ER QUALITY CERTIFICATE SUBMISSION 06

