PUBLIC NOTICE



US Army Corps of Engineers ® New England District 696 Virginia Road Concord, MA 01742-2751 Comment Period Begins: November 15, 2022 Comment Period Ends: December 15, 2022 File Number: NAE-2020-01084 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 (MassDOT) – Highway Division, 10 Park Plaza, Boston, Massachusetts 02116. This work is proposed in the Hoosic River and associated vegetated wetlands at the bridge conveying Route 2 (State Road) over the Hoosic River in North Adams, Massachusetts. The site coordinates are: Latitude 42.698168°N, Longitude 73.148120°W.

Note: Although this project is eligible for review under the General Permits for Massachusetts (MA GPs), the work is not expected to be complete until after the MA GPs expire on April 5, 2023. The applicant is therefore seeking an individual permit to allow more time to complete the work.

The work involves the permanent discharge of 2,310 square feet of fill material below the Ordinary High Water (OHW) mark of the Hoosic River associated with the replacement of the bridge conveying Route 2 over the Hoosic River. The work includes replacement of the superstructure, installation of new abutments behind the existing abutments/floodwalls, cutting down the existing abutments to accommodate the new bridge superstructure, extension of the existing concrete pier footing, and placement of rip-rap scour protection around the pier footing. An additional 18,950 square feet of temporary impacts below OHW, and 741 square feet of temporary impacts to vegetated wetlands, are proposed resulting from temporary construction access mats, installation of sandbag cofferdams, and associated dewatering behind cofferdams to allow work on the pier to occur in the dry. The purpose of this project is to improve the safety and stability of the bridge, to extend the bridge's lifespan, and provide continued access across the river.

The work is shown on the enclosed plans entitled "MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION PLAN AND PROFILE OF ROUTE 2 (STATE ROAD) (BRIDGE NO. N-14-016) IN THE CITY OF NORTH ADAMS BERKSHIRE COUNTY" on 13 sheets, and dated "9/6/2022".

The project has been designed to avoid and minimize impacts to waters of the United States, including wetlands, through the use of various best management practices, including the installation of erosion and sedimentation controls at the project limits, conducting repair work within a sandbag cofferdam to reduce turbidity, retaining the existing abutments to minimize in-water work, and using timber matting to reduce wetland impacts from construction access. No compensatory mitigation is proposed because the impacts are considered minimal.

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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 Act.
- X Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408)

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 U.S. Army Corps of Engineers, New England District (USACE), 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. The USACE will consider all comments received 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.

The activities proposed herein also required permission from the USACE pursuant to 33 U.S.C. 408 because they will alter or temporarily or permanently occupy or use a USACE federally authorized Civil Works project known as the North Adams Local Protection Project (LPP). The USACE New York District is responsible for Section 408 decisions related to the North Adams LPP. MassDOT has already completed coordination and received written permission from the New York District pursuant to Section 408.

NATIONAL HISTORIC PRESERVATION ACT

The Federal Highway Administration (FHWA) is the lead federal agency responsible for coordination pursuant to Section 106 of the National Historic Preservation Act. MassDOT has initiated coordination with the State Historic Preservation Officer (SHPO), Massachusetts Board of Underwater Archaeological Resources (BUAR), and relevant Tribal Historic Preservation Officers (THPOs) on behalf of the FHWA. Although FHWA has taken the lead on this consultation, 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

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significance, or listed in, or eligible for listing in, the National Register of Historic Places. The Corps will continue review and consultation as required to fulfil the requirements of the National Historic Preservation Act as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

FHWA is the lead federal agency responsible for coordination pursuant to Section 7 of the Endangered Species Act. Although FHWA is the lead federal agency, the Corps has reviewed the application for the potential impact on Federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. 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 a listed species or their critical habitat. FHWA is coordinating with the U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

OTHER GOVERNMENT AUTHORIZATIONS

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

- () Permit, license or assent from State.
- () Permit from local wetland agency or conservation commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

COMMENTS

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 USACE 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.

Paul Maniccia

Paul M. Maniccia Chief, Permits and Enforcement Branch Regulatory Division

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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 <u>bettina.m.chaisson@usace.army.mil</u>.

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION **HIGHWAY DIVISION**

PLAN AND PROFILE OF

ROUTE 2 (STATE ROAD)

(BRIDGE NO. N-14-016)

IN THE CITY OF

NORTH ADAMS

BERKSHIRE COUNTY

FEDERAL AID PROJECT NO.

INDIVIDUAL PERMIT APPLICATION



SCALE 1" = 1000'

LENGTH OF PROJECT = 540 FEET = 0.102 MILES

DESIG AD

T (PE T (AVE D FUNCTIONAL

> 282 Merrimack St 2nd Floor Lawrence, MA 01843 978-794-1792

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SHEET NO. DESCRIPTION

- TITLE SHEET & INDEX LEGEND, ABBREVIATIONS & PROJECT DESCRIPTION
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- CONTROL OF WATER (2 OF 2)

NORTH ADAMS **ROUTE 2 (STATE ROAD)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	13
	PROJECT FILE NO.	605843	

TITLE SHEET & INDEX

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS. THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

DESIGN DESIGNATION

SN SPEED	40 MPH
Г (2018)	12,489
Г (2028)	13,128
К	8.7%
D	59.4%
AK HOUR)	0.9%
RAGE DAY)	1.1%
DHV	1,139
DHV	677
CLASSIFICATION	URBAN PRINCIPAL ARTERIAL



								2005		
GENERAL SYMBOL	s		TRAFFIC SYMBOLS				GENERAL			NORTH ADAMS ROUTE 2 (STATE ROAD)
EXISTING	PROPOSED	DESCRIPTION				DESCRIPTION	AADT	ANNUAL AVERAGE DAILY TRAFFIC		STATE FED. AID PROJ. NO. SHEET TOTAL
JB	JB JB	JERSEY BARRIER		KOPUSED	CONTROL		ABAN	ABANDON		MA - 2 13
🖽 🌐 🌐 СВ	CB/GI	CATCH BASIN OR GUTTER INLET	×	X	CONTROLL	LER CABINET, FOUNDATION	APPROX.	APPROXIMATE		PROJECT FILE NO. 605843
	CBCI/GI	CI CATCH BASIN CURB INLET OR GUTTER INLET CURB INLET	X	\mathbf{X}	CONTROLL	LER CABINET, FOUNDATION, CONC. PAD	A.C.	ASPHALT CONCRETE	LEGEND,	ABBREVIATIONS & PROJECT DESCRIPTION
● FP	FP	FLAG POLE	T	\bullet	MAST ARM	I FOUNDATION (SCALE OF BLOCK = DIAMETER IN INCHES)	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	ABBREVIATI	ONS (cont.)
G GP	GG GP □ MB	GAS PUMP MAIL BOX			MAST ARM	I (LENGTH NOTED)	BC	BOTTOM OF CURB		
		POST SQUARE	¥	•	EMERGEN	CY PREEMPTION CONFIRMATION STROBE LIGHT	BD.	BOUND		POINT ON TANGENT
0	0	POST CIRCULAR	-+>		VEHICULA	R SIGNAL HEAD	BL		PRC	POINT OF REVERSE CURVATURE
WELL	WELL	WELL	_ _ _		DEDESTRI		BM	BENCHMARK	PROJ	PROJECT
• EHH	■ EHH	ELECTRIC HANDHOLE			PEDESTRI	AN SIGNAL HEAD	BO	BY OTHERS	PROP	PROPOSED PLANTABLE SOIL BORROW
o GG	o GG	GAS GATE	-	-	MASTARM	FOR TS POLE MOUNTED SIGN	BOS	BOTTOM OF SLOPE	PT	POINT OF TANGENCY
⊕ BHL #	BHL #	BORING HOLE			VIDEO DET	TECTION CAMERA	CB	CATCH BASIN	PUE	PERMANENT UTILITY EASEMENT
↔ MW #	♠ MW #	MONITORING WELL	-		EMERGEN	CY PRE-EMPTION RECEIVER	CBCI	CATCH BASIN WITH CURB INLET	PVC PVI	POINT OF VERTICAL CURVATURE
B IP #	B TP#		\$	*	EMERGEN	CY PRE-EMPTION CONFIRMATION STROBE	CC	CEMENT CONCRETE	PVT	POINT OF VERTICAL TANGENCY
*	*	LIGHT POLE	•	•	PEDESTRI	AN PUSH BUTTON	CCM	CEMENT CONCRETE MASONRY	PVMT	PAVEMENT
□ CO.BD.		COUNTY BOUND			YAGI ANTE	INNA	CEM	CEMENT	R	
0 4		GPS POINT		<u></u>	BICYCLEW		CI		RCP	REINFORCED CONCRETE PIPE
©	©			縚			CLF	CHAIN LINK FENCE	RD	ROAD
0	e e	DRAINAGE MANHOLE ELECTRIC, MANHOLE			WIRE LOO	P DETECTOR (SIZE AND TYPE NOTED)	CL	CENTERLINE		
0	õ	GAS MANHOLE	0		TRAFFIC S	SIGN (1 POST)	CMP		RET	RETAIN
0	Ŵ	MISC MANHOLE	00	••	TRAFFIC S	SIGN (2 POST)	CO.	COUNTY	RET WALL	RETAINING WALL
3	(9)	SEWER MANHOLE			PULL BOX	12"x12" (OR AS NOTED)	CONC	CONCRETE	ROW	RIGHT OF WAY RAIL ROAD
0	Ŭ	TELEPHONE MANHOLE			ELECTRIC	HANDHOLE 12"x24" (OR AS NOTED)	CONT	CONTINUOUS	R&R	REMOVE AND RESET
= MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND			 TRAFFIC S 		CR GR	CROWN GRADE	R&S	REMOVE AND STACK
D MON		MONUMENT			11011100		DHV	DESIGN HOURLY VOLUME	RT	
□ SB		STONE BOUND					DI		SHLD	SHOULDER
= TB		TOWN OR CITY BOUND	PAVEMENT MARK	INGS SYM	BOLS		DIA	DIAMETER DUCTILE IRON PIPE	SMH	SEWER MANHOLE
-o TPL or GUY		TRAVERSE OR TRIANGULATION STATION			DOLO		DSCB	DEEP SUMP CATCH BASIN	ST	STREET
• HTP		TRANSMISSION POLE	EXISTING	PR	ROPOSED	DESCRIPTION	DW	STEADY DON'T WALK - PORTLAND ORANGE	SSD	STATION STOPPING SIGHT DISTANCE
-6- UFB	- UFB	UTILITY POLE W/ FIREBOX	4		4	PAVEMENT ARROW - WHITE	ELEV (or EL.)	ELEVATION	SHLO	STATE HIGHWAY LAYOUT LINE
-§- UPDL		UTILITY POLE WITH DOUBLE LIGHT	ONLY		ONLY	LEGEND "ONLY" - WHITE	ЕМВ	EMBANKMENT	SW	
-&- ULI		UTILITY POLE W / 1 LIGHT			SL	STOP LINE - 12" WIDE	EOP		TAN	TANGENT DISTANCE OF CORVE/TROCK %
0	- OFL	BUSH		cw			EXC	EXCAVATION	TEMP	TEMPORARY
•SIZE & TYPE		TREE			SWI	CROSSWALK - 12 WIDE	F&C	FRAME AND COVER	TC	
0		STUMP			SWL	SOLID WHITE LINE	F&G	FRAME AND GRATE	TS	TRAFFIC SIGNAL
a WC	• WG	SWAMP / MARSH			SYL	SOLID YELLOW LINE	FDN. FDP	FULL DEPTH PAVEMENT	TYP	TYPICAL
• WSO	 WSO 	WATER SHUTOFF/CURB STOP			BWL	BROKEN WHITE LINE	FES	FLARED END SECTION		
• PM	• PM	PARKING METER			BYL	BROKEN YELLOW LINE	FLDSTN	FIELDSTONE	VAR VERT	VARIES
		- OVERHEAD CABLE/WIRE			DWL	DOTTED WHITE LINE	GAR GC	GARAGE GRANITE CURB	VC	VERTICAL CURVE
					DYL		GD	GROUND	WCR	WHEEL CHAIR RAMP
<u>-100</u> <u>-99</u> -		- CONTOURS (CHOTOGRAMMETRIC DATA)					GG	GAS GATE	WIP	WROUGHT IRON PIPE
		- UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)					GIP	GUTTER INLET GALVANIZED IRON PIPE	WM	WATER METER/WATER MAIN
		- UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)			DYLEX	DOTTED YELLOW LINE EXTENSION	GRAN	GRANITE	X-SECT	CROSS SECTION
		- UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)			DBWL	DOUBLE WHITE LINE	GRAV	GRAVEL	TRAFFIC SIG	NAL ABBREVIATIONS
		- UNDERGROUND SEVER MAIN (DOUBLE LINE 24 INCH AND OVER) - UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)			DBYL	DOUBLE YELLOW LINE	GRD HDW	GUARD HEADWALL	CAB.	CABINET
		- UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)					HMA	HOT MIX ASPHALT	CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
00000000000000000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BALANCED STONE WALL					HOR	HORIZONTAL	DW	STEADY DON'T WALK
		GUARD RAIL - STEEL POSTS	PROJECT DESCRI	PTION:			HP HYD	HIGH POINT HYDRANT	FDW	FLASHING CIRCULAR RED
Y			THE PROPOSED F	ROJECT IN	NCLUDES THE	E SUPERSTRUCTURE REPLACEMENT OF AN	INV	INVERT	FRL	FLASHING RED LEFT ARROW
		- WOOD FENCE	EXISTING TWO SE		E (N-14-016) C	CARRYING ROUTE 2 (STATE ROAD) OVER THE	JCT	JUNCTION	FRR	FLASHING RED RIGHT ARROW
KX/./ XX/./ X			EXISTING CONDIT	IONS OF T	THE SUBSTRU	CTURE AND SUPERSTRUCTURE OF THE	L	LENGTH OF CURVE	F Y FYL	FLASHING GIRGULAR YELLOW FLASHING YELLOW LEFT ARROW
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		BRIDGE. IMPROVE	EMENTS AL	LSO INCLUDE	STAGE CONSTRUCTION SEQUENCING,	LOG	LIMIT OF GRADING	FYR	FLASHING YELLOW RIGHT ARROW
			CONTROL OF WA	IER, EART	H EXCAVATIO	IN, SIDEWALK AND DRIVEWAY ENT. PAVEMENT MILLING AND OVERI AY	LP	LIGHT POLE	G	STEADY CIRCULAR GREEN
		- SAWGUT LINE - TOP OR BOTTOM OF SLOPE	SUPERPAVE ASPI	HALT PAVE	EMENT, BRIDG	SE RAIL AND HIGHWAY GUARDRAIL, GRANITE	L&S	LOAM & SEED	GL GR	STEADY GREEN LEFT ARROW STEADY GREEN RIGHT ARROW
		- LIMIT OF EDGE OF MICROMILLING AND OVERLAY	CURB INSTALLAT	ON, UTILIT		DNS, CONCRETE REPAIRS TO THE EXISTING	MAX	MAXIMUM	GSL	STEADY GREEN SLASH LEFT ARROW
		BANK OF RIVER OR STREAM	SIGNS, AND MINO	R DRAINAG	GE IMPROVEN	MENTS, AND OTHER INCIDENTAL WORK.	MB	MAILBOX	GSR	STEADY GREEN SLASH RIGHT ARROW
		BORDER OF WETLAND							GV Ol	STEADY GREEN VERTICAL ARROW
							MIN	MINIMUM	PED	PEDESTRIAN
							NIC	NOT IN CONTRACT	PTZ	PAN, TILT, ZOOM
		TOWN OR CITY LAYOUT					NO.	NUMBER	R	
	-	-COUNTY LAYOUT					OCS PC	OUTLET CONTROL STRUCTURE	RR	STEADT RED LEFT ARROW
		RAILROAD SIDELINE					PCC	POINT OF COMPOUND CURVATURE	TR SIG	TRAFFIC SIGNAL
							PERM	PERMANENT	TSC	
							P.G.L. Pl	PROFILE GRADE LINE POINT OF INTERSECTION	vv Y	STEADY WALKING PERSON STEADY CIRCULAR YELLOW
							POC	POINT ON CURVE	YL	STEADY YELLOW LEFT ARROW











<u>IMPACT</u>

TEMPORARY IMPACT OF LAND UNDER WATERS OF THE U.S.

PERMANENT IMPACT OF LAND UNDER WATERS OF THE U.S.

TEMPORARY IMPACT OF VEGETATED WETLAND

LEGEND:

# NORTH ADAMS ST 2 (STATE ROAD)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	TO BE DETERMINED	7	13
PI	ROJECT FILE NO. (	60584	.3

# RESCOURCE IMPACT MITIGATION PLAN

<u>HATCH</u> TOTAL AREA 18,950 SF 2,310 SF 741 SF

BF = BANK FLAG WF = WETLAND FLAG

SEPT 9, 2022	FINAL STRUCTURAL SUBMITTAL
DATE	DESCRIPTION
USE	ONLY PRINTS OF LATEST DATE
B	RIDGE NO. N-14-016 (OAK)



3_BR1_(N-14-016).DWG Plotted on 1-Nov-2022	12:47 PM
BR1_(N-14-016).DWG Plotted on	1-Nov-2022
BR1_(N-14-016).DWG	Plotted on
BR1	(N-14-016) DWG
	BR1

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
MA	TO BE DETERMINED	8	13	
PROJECT FILE NO. 605843				

# BRIDGE NO. N-14-016 (OAK)

# DESIGN

IN ACCORDANCE WITH THE 2020 AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION FOR HL-93 LOADING.

MASSDOT BENCH MARK:

BENCHMARK 1: RR SPIKE IN UTILITY POLE #31 N: 3083724.957' F: 213341.824' ELEVATION = 645.00'

BENCHMARK 2: DISK IN WINGWALL N: 30837117.975' E 213048 623' ELEVATION = 644.87

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

HORIZONTAL COORDINATES RELATIVE TO THE MASSACHUSETTS STATE PLANE COORDINATION SYSTEM, MASSACHUSETTS MAINLAND ZONE. BASED ON THE NORTH AMERICAN DATUM OF 1983, NAD83 ALL MEMBRANE WATERPROOFING USED ON BRIDGE DECKS SHALL (2011) EPOCH 2010.00.

DATE:

DATE TO BE PLACED ON THE INSIDE FACE OF THE NORTHEAST AND SOUTHWEST HIGHWAY GUARDRAIL TRANSITIONS. A SHEET SHOWING 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 HIGHWAY GUARDRAIL TRANSITION IS CONSTRUCTED. BOTH HIGHWAY GUARDRAIL TRANSITIONS SHALL FEATURE THE SAME DATE.

# MASSDOT SURVEY NOTEBOOKS:

SURVEY PREPARED BY WSP OF NASHUA, NH DATED SEPTEMBER 2017. ELECTRONIC SURVEY FILES ARE AVAILABLE FROM MASSDOT. 1.

# SCALES:

SCALES NOTED ON THE PLANS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS. DIVIDE SCALES BY 2 FOR HALF SIZE PRINTS (A3).

## FOUNDATIONS:

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

ARTESIAN CONDITIONS WERE OBSERVED DURING BORING PROGRAMS AND CONSTRUCTION PROJECTS IN THE AREA BY OTHERS. ARTESIAN CONDITIONS WERE NOT OBSERVED DURING THIS BORING PROGRAM. A PRESSURE HEAD WAS OBSERVED IN THE PIEZOMETER DATA. REFER TO THE GEOTECHNICAL REPORT DATED DECEMBER 2, 2020 AND PIEZOMETER DATA FOR ADDITIONAL INFORMATION REGARDING GROUNDWATER LEVELS.

UNSUITABLE MATERIAL:

ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE, AS DIRECTED BY THE 10. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ENGINEER.

ANCHOR BOLTS:

ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATE BEFORE THE CONCRETE IS PLACED.

## CONCRETE:

ALL CONCRETE SHALL BE 4000PSI, 37 585 HP CEMENT CONCRETE, EXCEPT AS NOTED BELOW:

SIDEWALKS AND HIGHWAY GUARDRAIL TRANSITIONS SHALL BE 5000PSI, ³/₄" 685 HP CONCRETE.

ABUTMENT PILE CAP, APPROACH SLAB PIER FOOTING EXTENSION, AND WINGWALLS SHALL BE 4000PSI, 12" 565 CEMENT CONCRETE.

# REINFORCEMENT:

ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.

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:

MODIFICATION CONDITION	<u>#4 BARS</u>	<u>#5 BARS</u>	<u>#6 BARS</u>
1. NONE	16"	19"	23"
2. 12" PF CONCRETE BELOW BAR	20"	25"	30"
3. EPOXY COATED BARS, COVER<3d	b, 23"	29"	34"
OR CLEAR SPACING<6db			
4. COATED BARS, ALL OTHER CASES	5 18"	23"	27"
5. CONDITION 2. AND 3.	26"	32"	39"
6. CONDITION 2. AND 4.	24"	30"	36"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

# MEMBRANE WATERPROOFING:

BE MEMBRANE WATERPROOFING FOR BRIDGE DECKS - SPRAY APPLIED.

### NOTES:

SEE GEOTECHNICAL REPORT PREPARED BY GEOSCIENCES TESTING AND RESEARCH, INC. (GTR) DATED JUNE 25, 2018; REVISED DECEMBER 2. 2020.

SEE HYDRAULIC REPORT PREPARED BY MASSDOT DATED AUGUST 13, 2018 AND TEMPORARY CONTROL OF WATER MEMORANDUM DATED NOVEMBER 19, 2021.

# STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL SHALL BE AASHTO M270 (ASTM A709) GRADE 50, UNLESS OTHERWISE NOTED.
- 2. ALL BOLTS SHALL BE IN ACCORDANCE WITH ASTM F 3125 GRADE 325 UNLESS OTHERWISE NOTED.
- 3. ALL BOLT HOLES SHALL BE 提"Ø UNLESS OTHERWISE NOTED.
- 4. ALL BOLTED CONNECTIONS SHALL BE CONSIDERED SLIP CRITICAL WITH CLASS C FAYING SURFACES.
- 5. ALL ANCHOR BOLTS FOR ANCHORING BRIDGE RAILING BASE PLATES TO CONCRETE SHALL BE IN ACCORDANCE WITH ASTM A449 AND ALL ANCHOR BOLTS USED FOR ANCHORING BRIDGE BEARINGS TO CONCRETE SHALL BE IN ACCORDANCE WITH ASTM F1555 GRADE 105 UNLESS OTHERWISE NOTED.
- 6. SHEAR CONNECTORS SHALL BE IN ACCORDANCE WITH AASHTO M 169, GRADES 1015 OR 1020.

# EXISTING CONDITIONS:

- 9. CONFIGURATION AND LAYOUT OF EXISTING BRIDGE STRUCTURE BASED ON THE ORIGINAL 1928 AND 1956 DESIGN DRAWINGS.

# ESTIMATED QUANTITIES (NOT CHARANTEED)

	(NOT GOARANTEED)		
ТЕМ	100.9 PRE- AND POST-CONSTRUCTION SURVEY	1	LS
TEM	100.91GEOTECHNICAL INSTRUMENTATION AND MONITORING	1	LS
TEM	114.1DEMOLITION OF BRIDGE NO. N-14-016	1	LS
ТЕМ	127.1 REINFORCED CONCRETE EXCAVATION	22	20 (
TEM	127.12REINFORCED CONCRETE EXCAVATION FOR REPAIRS	5	CY
TEM	129.6BRIDGE PAVEMENT EXCAVATION.	16	) S1
TEM	143 CHANNEL EXCAVATION	30	,000 20 c
TEM	151.1GRAVEL BORROW FOR BRIDGE FOUNDATION	35	50 C
ТЕМ	151.2GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	.15	CY
ТЕМ	153.1CONTROLLED DENSITY FILL - NON EXCAVATABLE	10	CY
ТЕМ	156CRUSHED STONE	21	οт
ТЕМ	156.1 CRUSHED STONE FOR BRIDGE FOUNDATIONS	.70	) TC
ТЕМ	450.601 SUPERPAVE BRIDGE SURFACE COURSE - 9.5 POLYMER (SSC-B-9.5-P)	80	) тс
ТЕМ	450.711 SUPERPAVE BRIDGE PROTECTIVE COURSE - 12.5 POLYMER (SPC-B-12.5-P)	.12	:0 T
ТЕМ	853.21 TEMPORARY BARRIER REMOVED AND RESET	84	FO F
ТЕМ	853.23 TEMPORARY BARRIER (TL-3)	. 35	50 F
ТЕМ	853.25 TEMPORARY BOLT-DOWN TL-4 BARRIER	.47	'O F
ТЕМ	853.27 TEMPORARY BARRIER TRANSITION	4	ΕA
ТЕМ	904.4 4000 PSI, ≩ INCH, 585 CEMENT CONCRETE	70	) C1
ТЕМ	905 4000 PSI, 👌 INCH, 660 CEMENT CONCRETE	1C	) CY
ТЕМ	909.2 CEMENTITIOUS MORTAR FOR PATCHING	.12	5 S
ТЕМ	910.1 STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED	.16	850
ТЕМ	912 DRILLING AND GROUTING DOWELS	12	200
ТЕМ	942.124 STEEL PILE HP 12X84	.28	350
ТЕМ	944.124 STEEL PILE SPLICE 12X84	28	3 EA
TEM	945.10 DRILLED MICROPHES	35	575
TEM	945 114 PRE-DRILLING FOR PILES	35	50 F
TEM	948.41 DYNAMIC LOAD TEST BY CONTRACTOR	4	FΔ
TEM	948.5 PILE SHOES	י 2۶	R F4
		1	
		י ר	
	946.01 MICROFILE FROOF LOAD TEST	∠ 1	
TEM	953.51 TEMPORARY SUPPORT OF EXCAVATION		LS
TEM	953.52 TEMPORARY STEEL SHEETING	.1	LS
IEM	960.13 STRONGBACK BEAM SYSTEM	1	LS
ТЕМ	983 DUMPED RIPRAP	32	20 1
ТЕМ	983.3 RIPRAP REMOVED AND RELAID	. 32	20 0
ТЕМ	991.11 CONTROL OF WATER - STRUCTURE NO. N-14-016 - STAGE 1	.1	LS
ТЕМ	991.12 CONTROL OF WATER - STRUCTURE NO. N-14-016 - STAGE 2	.1	LS
ТЕМ	992.31 TEMPORARY SUPPORTS FOR WATER PIPE	1	LS
ТЕМ	992.32 TEMPORARY SUPPORTS FOR PIPING - GAS	1	LS
ТЕМ	994.01 TEMPORARY PROTECTIVE SHIELDING BRIDGE NO. N-14-016	1	LS
ТЕМ	995.01 BRIDGE STRUCTURE, BRIDGE NO. N-14-016 (OAK)	1	LS

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# NORTH ADAMS ST 2 (STATE ROAD)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
MA	TO BE DETERMINED	9	13	
PROJECT FILE NO. 605843				

TRAFFIC DATA		
	ROADWAY OVER	ROADWAY UNDER
DESIGN YEAR	2028	
AVERAGE DAILY TRAFFIC – PRESENT	12489VPD	$ \land /$
AVERAGE DAILY TRAFFIC – DESIGN YEAR	13128VPD	
DESIGN HOURLY VOLUME	1139 VPH	
DIRECTIONAL DISTRIBUTION	59.4%	Х
FRUCK PERCENTAGE – AVERAGE DAY	1.1%	
IRUCK PERCENTAGE – PEAK HOUR	0.9%	
DESIGN SPEED	40 MPH	$\langle \rangle$
DIRECTIONAL DESIGN HOURLY VOLUME	677 VPH	

SEISMIC DESIGN CRITERIA	
DESIGN RETURN PERIOD:	2500
DESIGN SPECTRA	
As	0.117
SDs	0.210
SD1	0.139
SITE CLASS	D
SEISMIC DESIGN CATEGORY (SDC)	A

HYDRAULIC DESIGN DATA	
DRAINAGE AREA (SQ. MILES)	124.0
DESIGN FLOOD DISCHARGE (C.F.S.)	12,080
DESIGN FLOOD FREQUENCY (YEARS)	50
DESIGN FLOOD VELOCITY (F.P.S.)	6.3
DESIGN FLOOD ELEVATION (FEET, NAVD)	634.03
BASE (100-YEAR) FLOOD DATA	
BASE FLOOD DISCHARGE (C.F.S.)	14,530
BASE FLOOD ELEVATION (FEET, NAVD)	635.40
DESIGN AND CHECK SCOUR DATA	
DESIGN SCOUR FLOOD EVENT	100
RETURN FREQUENCY (YEARS)	100
DESIGN FLOOD ABUTMENT SCOUR DEPTH (FEET)	7.1
DESIGN FLOOD PIER SCOUR DEPTH (FEET)	9.95
CHECK SCOUR FLOOD EVENT	200
RETURN FREQUENCY (YEARS)	200
CHECK FLOOD ABUTMENT SCOUR DEPTH (FEET)	8.0
CHECK FLOOD PIER SCOUR DEPTH (FEET)	10.41
FLOOD OF RECORD	
DISCHARGE (C.F.S.)	14,900
FREQUENCY (IF KNOWN, YEARS)	UNKNOWN
MAXIMUM ELEVATION (FEET, NAVD)	UNKNOWN
DATE (MM/YYYY)	08/2011
HISTORY OF ICE FLOES	N/A
EVIDENCE OF SCOUR	
AND EROSION	

TEMPORARY WATER CONTROL DESIGN DATA			
DESIGN	FLOOD	DISCHARGE (C.F.S.)	5,847
DESIGN	FLOOD	FREQUENCY (YEARS)	5
DESIGN	FLOOD	VELOCITY (F.P.S.)	2.73
DESIGN	FLOOD	ELEVATION (FEET, NAVD)	635.38
·			

SEPT 9, 2022	FINAL STRUCTURAL SUBMITTAL
DATE	DESCRIPTION
USE	ONLY PRINTS OF LATEST DATE
B	RIDGE NO. N-14-016 (0AK)





# ELEVATION VIEW

SCALE: 1" = 20'

# NOTES:

- 1. LOW CHORD ELEVATIONS PROVIDED ARE FOR PROPOSED FASCIA GIRDER (G14).
- 2. TEMPORARY STEEL SHEETING SHALL BE LEFT IN PLACE AND CUT 2 FEET BELOW GRADE.
- 3. CHAIN LINK FENCE FOR INSPECTION ACCESS AREA NOT SHOWN FOR CLARITY.

# STRUCTURAL SUBMITTAL (SF) SEPT 9, 2022

# NORTH ADAMS ST 2 (STATE ROAD)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
МА	TO BE DETERMINED	11	13
PROJECT FILE NO. 605843			

# ELEVATION VIEW

-7'-4" PRECAST HIGHWAY GUARDRAIL TRANSITION

PROP. ABUT. CAP RECONSTRUCTION EL. 639.10 PROP. BRIDGE SEAT CONST. JOINT (RAKE FINISH) -EXIST. GROUND

PROP. BOTTOM OF EAST ABUT. EL = 633.46

-3'-0" DEEP X 2'-6" (MIN.) WIDE TRENCH FILLED WITH CRUSHED STONE (TYP.)

-PROP. INSPECTION ACCESS AREA BEHIND EXIST. ABUT. (TYP.)

EST. PILE TIP EL = 543.50

SEPT 9, 2022	FINAL STRUCTURAL SUBMITTAL
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	
BRIDGE NO. N-14-016 (OAK)	



