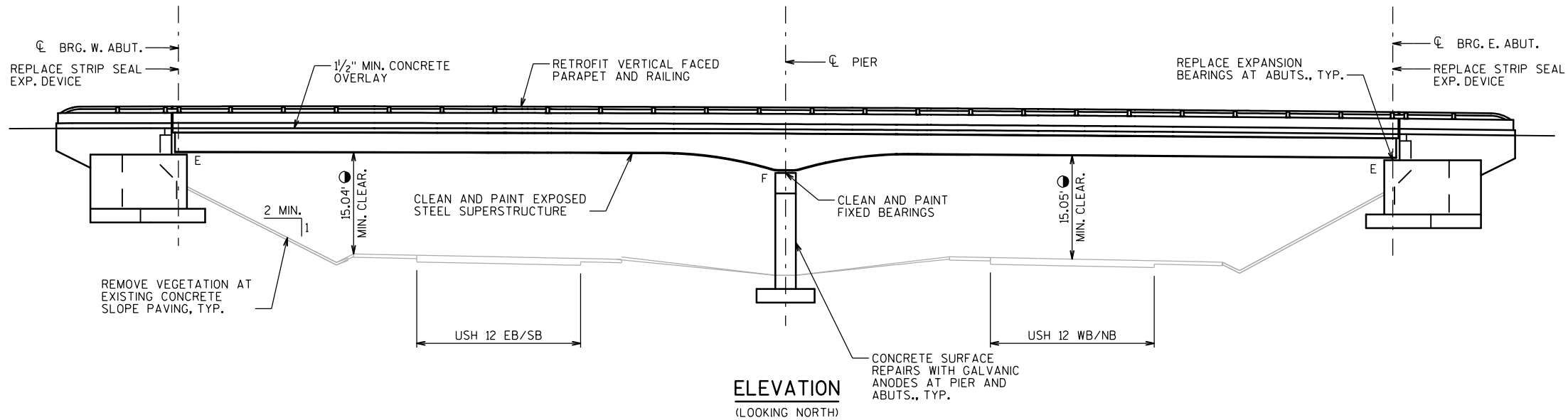


STATE PROJECT NUMBER
3839-03-73

- LIST OF DRAWINGS**
1. GENERAL PLAN & ELEVATION
 2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

- LEGEND**
- TRAFFIC DIRECTION
 - ⊗ WING NUMBER
 - ☆ ANGLE MEASURED FROM LINE TANGENT TO USH 12 R. AT R. CTH B
 - LOCATION AND CLEARANCE DIMENSION TAKEN FROM INSPECTION REPORT DATED 5-25-2017



STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____ DATE _____ CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-64-19			
CTH B OVER USH 12			
COUNTY	WALWORTH	TOWN	BLOOMFIELD
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	HDA	DESIGN CK'D.	PJC
DRAWN BY	HDA	PLANS CK'D.	EAJ
GENERAL PLAN & ELEVATION			SHEET 1 OF 2

TRAFFIC DATA

CTH B
EXISTING A.D.T. = 1,700 (2018)
FUTURE A.D.T. = 2,100 (2040)
R.D.S. = 55 M.P.H.

USH 12
EXISTING A.D.T. = 9,500 (2015)
FUTURE A.D.T. = 11,800 (2040)
R.D.S. = 70 M.P.H.

DESIGN DATA

LIVE LOAD
INVENTORY RATING: HSXX
OPERATING RATING: HSXX
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY:
SUPERSTRUCTURE..... f'c = 4,000 psi
ALL OTHER..... f'c = 3,500 psi
BAR STEEL REINFORCEMENT..... fy = 60,000 psi

HORIZONTAL CURVE DATA

CURVE USH 12-1
P.I. = 165+80.13
Δ = 2° 59' 51" R
D = 0° 14' 59"
T = 600.14'
L = 1,200.00'
R = 22,937.96'
P.C. = 159+79.99
P.T. = 171+79.99

PRELIMINARY PLANS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

REMOVAL OF THE BRUSH CURB AT THE JOINTS IS INCLUDED IN BID ITEM "JOINT REPAIR".

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY, THE TOP OF ANY NEW DECK, THE TOPS OF PAVING BLOCKS, AND THE TOP AND CURB FACES OF NEW BRUSH CURBS ASSOCIATED WITH THE JOINT REPLACEMENT.

APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO THIS APPLICATION. APPLY "PIGMENTED SURFACE SEALER" TO THE TOP AND INSIDE FACES OF NEW SECTIONS OF PARAPET AT THE JOINT REPLACEMENT(S).

CLEAN AND APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP AND VERTICAL FACES OF THE BRUSH CURBS, PAID FOR UNDER "PROTECTIVE SURFACE TREATMENT RESEAL".

PERFORM ALL PARAPET AND BRUSH CURB REPAIRS, SURFACE TREATMENT APPLICATIONS AND EXPANSION JOINT REPLACEMENT PRIOR TO INSTALLATION OF STEEL THRIE BEAM RAILING RETROFIT.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS". <AREAS TO BE ADDED FOR FINAL PLANS.>

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE ITEMS ARE APPROXIMATE.

- CURB REPAIR

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

ANY EXCAVATION REQUIRED TO COMPLETE THE CONCRETE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY OVERLAY DECKS". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF BRUSH CURB AND PARAPETS WITHIN THE JOINT REPAIR LIMITS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO.5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

BEVEL EDGES OF EXPOSED CONCRETE $\frac{3}{4}$ " MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF $1\frac{1}{2}$ " CLEAR.

A MINIMUM OF $\frac{1}{2}$ -INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF $\frac{1}{2}$ " PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. THE EXPECTED AVERAGE OVERLAY THICKNESS IS $2\frac{7}{8}$ ". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN $\frac{1}{2}$ ", CONTACT THE STRUCTURES DESIGN SECTION.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-64-19".

REMOVE DESIGNATED MOVEABLE BEARING ASSEMBLIES AT THE ABUTMENTS UNDER THE BID ITEM "REMOVING BEARINGS B-64-19" AND REPLACE WITH LAMINATED ELASTOMERIC BEARINGS.

EXISTING FIXED BEARINGS AT THE PIER TO BE CLEANED AND PAINTED.

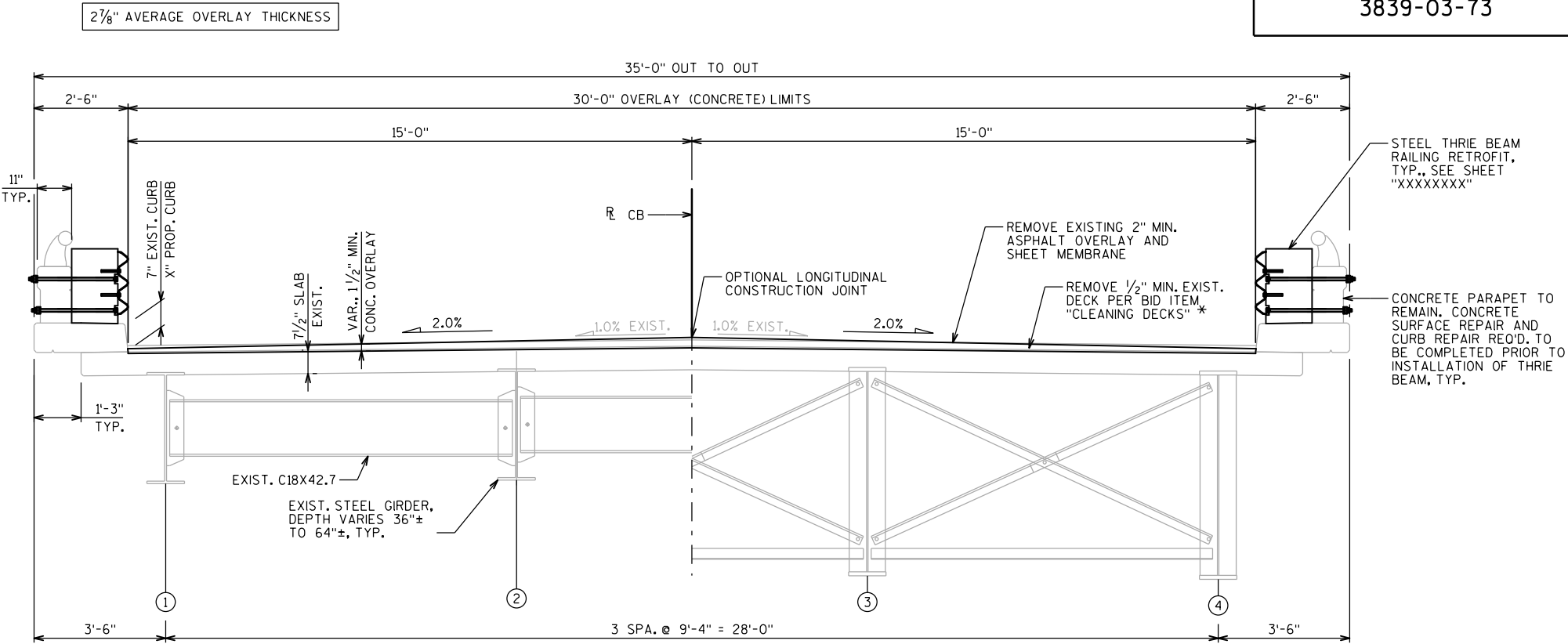
CLEAN AND PAINT ALL EXPOSED STEEL SUPERSTRUCTURE SURFACES UNDERNEATH THE BRIDGE. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, CROSS FRAMES, CONNECTIONS, FIXED BEARINGS, ETC. ALL CLEANING AND PAINTING TO BE PAID FOR AS "STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-19". PAINT APPLICATIONS ON THE BEARINGS SHOULD BE BRUSHED ON.

EXISTING STEEL SUPERSTRUCTURE AND BEARINGS SHALL BE PAINTED BLUE, AMS STANDARD COLOR NUMBER 25240.

REMOVE ALL VEGETATION FROM EXISTING CONCRETE SLOPE PAVING, INCLUDED IN THE BID ITEM "VEGETATION REMOVAL B-64-19".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

<PROPOSED ROADWAY STAGING CALLS FOR BRIDGE CLOSURE DURING OVERLAY AND ON-DECK WORK.>



TYPICAL HALF SECTION

HALF SECTION AT PIER CROSS FRAME

TYPICAL SECTION
(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
203.0210.S.XX	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-64-19	LS	
502.3100.XX	EXPANSION DEVICE B-64-19	LS	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	
502.4205	ADHESIVE ANCHORS NO.5 BARS	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	
506.7050.S.XX	REMOVING BEARINGS B-64-19	EACH	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
* 509.0500	CLEANING DECKS	SY	
509.1000	JOINT REPAIR	SY	
509.1200	CURB REPAIR	LF	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9010.S.XX	REMOVING ASPHALTIC CONCRETE DECK OVERLAY B-64-19	SY	
509.9050.S	CLEANING PARAPETS	LF	
517.1800.S.XX	STRUCTURE REPAINTING RECYCLED ABRASIVE B-64-19	LS	
517.4500.S.XX	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-64-19	LS	
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	
SPV.0060.XX	EMBEDDED GALVANIC ANODES	EACH	
SPV.0090.XX	STEEL THRIE BEAM RAILING RETROFIT	LF	
SPV.0105.XX	VEGETATION REMOVAL B-64-19	LS	
	NON-BID ITEMS		

ALL ITEMS ARE CATEGORY XXXX

* REMOVE ONLY $\frac{1}{2}$ " OF EXISTING DECK, NOT 1" PER THE STANDARD SPECIFICATIONS

PRELIMINARY PLANS

STATE PROJECT NUMBER																							
3839-03-73																							
<table><tr><td>NO.</td><td>DATE</td><td>REVISION</td><td>BY</td></tr><tr><td colspan="4">STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</td></tr><tr><td colspan="4">STRUCTURE B-64-19</td></tr><tr><td colspan="2">DRAWN BY</td><td>HDA</td><td>PLANS CK'D. EAJ</td></tr><tr><td colspan="3">TYPICAL SECTIONS</td><td>SHEET 2 OF 2</td></tr></table>				NO.	DATE	REVISION	BY	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION				STRUCTURE B-64-19				DRAWN BY		HDA	PLANS CK'D. EAJ	TYPICAL SECTIONS			SHEET 2 OF 2
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