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STATE PROJECT NU

5992-09-14

DESIGN DATA:

LOADS:

LIVE LOAD: HS-20 EARTH LOAD: DESIGNED FOR NO FILL INVENTORY RATING: HS-20 OPERATING RATING: HS-33 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 190 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY DECK REPAIR	f'c	=	4,000 PSI	
CONCRETE SUPERSTRUCTURE	f'c	=	4,000 PSI	
HIGH STRENGTH BAR STEEL REINFORCEMENT	Fy	=	60,000 PS	L
POLYESTER POLYMER CONCRETE OVERLAY	f'c	=	5,000 PSI	

TRAFFIC DATA

A.D.T. (2019) = 28,500 A.D.T. (2039) = 30,000 DESIGN SPEED = 25 MPH

LIST OF DRAWINGS

- 1. GENERAL PLAN & ELEVATION
- EXISTING CROSS SECTION, QUANTITIES, & NOTES 2.
- CONSTRUCTION STAGING 1 3. CONSTRUCTION STAGING - 2 4.
- CONSTRUCTION STAGING 3 5.
- SUPERSTRUCTURE DETAILS 6.

LEGEND

• SEE GENERAL NOTE REGARDING PREPARATION DECKS TYPE 1 AND 2 AND FULL DEPTH DECK REPAIR.

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE CONTACT: WILLIAM DREHER (608) 266-8489

DESIGN CONSULTANT CONTACT: KEITH BEHREND (608) 251-4843

BENCMARKS

0.	STATION	DESCRIPTION	ELEV.
#1	87+20, 44' RT	MARKER SQ.SW CORNER W.END RETAINING WALL THORNTON DEAD END & E.JOHNSON BACK OF WALK	851.01
#2	92+49, 41' RT	TOP NUT HYDRANT, E. JOHNSON STREET @ TRAIN CROSSING SIGN	856.21

NOTE: BENCHMARKS ARE OUTSIDE OF PLAN EXTENTS. SEE ROADWAY PLAN AND PROFILE SHEETS FOR BENCHMARK LOCATIONS.

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GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE

THE FIRST DIGIT OF THE BAR MARKS SIGNIFY THE BAR SIZE.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP SURFACE OF SIDEWALKS AND INSIDE FACE OF CURBS ON SIDEWALKS.

CONCRETE SHALL BE REMOVED FROM THE BRIDGE DECK AS DETAILED IN THE STAGING CROSS SECTIONS UNDER THE BID ITEM "POLYESTER POLYMER CONCRETE OVERLAY WITH MILLING."

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS ARE ESTIMATED. ACTUAL QUANTITIES AND LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE FIELD ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIR SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR" OR POLYESTER POLYMER CONCRETE. SEE SECTION C.2 OF "POLYESTER POLYMER CONCRETE OVERLAY WITH MILLING" SPECIAL PROVISION.

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A 1-INCH DEEP

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYESTER POLYMER CONCRETE OVERLAY WITH MILLING."

NOT MORE THAN 1/3 OF THE TOP BAR STEEL IN DECK SHALL BE EXPOSED AT THE WEST AND EAST ENDS OF DECK IF DECK REPAIR IS REQUIRED.

ANY EXCAVATION REQUIRED TO COMPLETE THE WORK TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "POLYESTER POLYMER CONCRETE OVERLAY WITH

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF $\frac{3}{4}$ " PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 11/4". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN $\frac{1}{2}$ ", CONTACT THE STRUCTURES DESIGN SECTION.

POLYESTER POLYMER CONCRETE (PPC) OVERLAY PLACEMENT AND OTHER PROPOSED WORK ITEMS MUST CONFORM TO TRAFFIC CONTROL RESTRICTIONS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS. PPC OVERLAY CONTRACTOR JOINTS TO BE APPROVED BY THE ENGINEER. SEE TRANSVERSE AND LONGITUDINAL JOINT DETAILS ON "SUPERSTRUCTURE DETAILS" SHEET.

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	NO. DATE REVISION	BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION		
	STRUCTURE C-13-147		
	DRAWN BY DTH CKD	KRB	
	EXISTING CROSS		
	& NUTES		









(LOOKING EAST)

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SECTION AT NORTH SIDEWALK



(LOOKING EAST)



SECTION AT SOUTH SIDEWALK

HOT POURED JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690. (HOLD 1/8" BELOW SURFACE OF PPC OVERLAY). INCIDENTAL TO BID ITEM "POLYESTER POLYMER CONCRETE OVERLAY WITH MILLING".

CROSS SECTION THRU EXISTING

DECK CONSTRUCTION JOINT



PPC OVERLAY JOINTS

DETAIL REQUIRED WHEN OVERLAY IS NOT COMPLETED WITHIN THE WORK PERIOD OR IF STAGED CONSTRUCTION IS USED. OPTIONAL (CONTRACTOR) JOINTS TO BE APPROVED BY THE ENGINEER.

AVOID WHEN POSSIBLE PLACING LONGITUDINAL JOINTS NEAR WHEEL PATHS (PLACE AT PROPOSED LANE LINES OR IN THE MIDDLE OF THE PROPOSED LANE).

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COATED: 280 LBS

R RK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
D1	20	1'-8"	х	Х	SIDEWALK - DOWEL - VERT.
)2	10	5'-3"		Х	SIDEWALK - TRANS HORIZ NORTH
)3	15	13'-4"		Х	SIDEWALK - LONG HORIZ.
)4	10	13'-0"		х	SIDEWALK - TRANS HORIZ SOUTH

-CONTINUATION

LEGEND \triangle ADHESIVE ANCHOR NO. 4 BAR. EMBED 5".

STRUCTURE C-13-147

SUPERSTRUCTURE

DETAILS

REVISION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURES DESIGN SECTION

DRAWN BY

NO. DATE

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DTH PLANS CK'D. KRB

SHEET 6