

CURVE 'IH 41'

PI STA. = 1281+41.04
Y = 759923.206
X = 955293.706
Δ = 46°55'53"
D = 01°29'53"
T = 1660.43'
L = 3133.09'
R = 3825.00'
PC STA. = 1264+80.61
PT STA. = 1296+13.70

DESIGN DATA

LIVE LOAD:
DESIGN LOAD: HS-20
INVENTORY RATING: HS-20
OPERATING RATING: HS-34
MAXIMUM STANDARD PERMIT VEHICLE LOAD (WIS-SPV) = XXX KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY
DECK PATCHING.....f'c = 4,000 P.S.I.
ALL OTHERf'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 P.S.I.

TRAFFIC DATA

S00 ROAD
A.D.T. = 150 (2020)
A.D.T. = 600 (2045)
R.D.S. = 60 MPH

IH 41
A.D.T. = 33,600 (2020)
A.D.T. = 37,690 (2045)
R.D.S. = 70 MPH

LIST OF DRAWINGS

- GENERAL PLAN
- SECTION, NOTES, AND QUANTITIES

PRELIMINARY
SEPTEMBER 2019

LEGEND

- (X) INDICATES WINGWALL NUMBER
LIMITS OF JOINT REPAIR

BENCH MARK

NO.	STATION	DESCRIPTION	ELEVATION
1130	148+65.96, 15.43' LT.	BM CAP ON WING 2 PARAPET	976.96

PLAN

REHAB - POLYMER OVERLAY AND JOINT REPAIR
TWO SPAN 70" PRESTRESSED CONCRETE GIRDER BRIDGE
(DIMENSIONS SHOWN ON IH 41 ARE NORMAL TO CL IH 41)


ELEVATION

DIMENSIONS SHOWN ARE NORMAL TO CL IH 41
(LOOKING NORTH)

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER, P.E. (608) 266-8489

CONSULTANT:
VINCENT DIFRANCES, P.E. (920) 468-4771

NO.	DATE	REVISION	BY
			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		CHIEF STRUCTURES DESIGN ENGINEER	DATE
STRUCTURE B-14-116			
S00 ROAD OVER IH 41			
COUNTY	DODGE	TOWN	LOMIRA
DESIGN SPEC.		REHABILITATION	N/A
DESIGNED BY	VJD	DESIGN CK'D.	FH
DRAWN BY	VJD	PLANS CK'D.	FH
GENERAL PLAN AND ELEVATION			SHEET 1 OF 2

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS ARE IN FEET.

DIMENSIONS AND STATIONING SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

WORK IS TO BE COMPLETED UNDER A FULL CLOSURE OF S00 ROAD.SEE ROADWAY PLANS FOR ADDITIONAL TRAFFIC CONTROL DETAILS AND DETOUR ROUTES.

THE EXISTING STRUCTURE, B-14-116, IS A TWO SPAN PRESTRESSED GIRDER BRIDGE WITH AN OVERALL LENGTH BETWEEN BACK OF ABUTMENTS OF 259'-2" AND AN OVERALL WIDTH OF 31'-0". THE ENTIRE DECK AND TOP OF PAVING BLOCK SHALL RECEIVE A POLYMER OVERLAY AND THE EXPANSION JOINTS SHALL BE REPLACED.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.

ANY EXCAVATION REQUIRED TO COMPLETE THE JOINT REPAIR AT THE ABUTMENTS IS INCIDENTAL TO THE BID ITEM "JOINT REPAIR".

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

IF EXISTING BAR STEEL REINFORCEMENT IS SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED BARS OF THE SAME SIZE AT THE DIRECTION OF THE ENGINEER. EMBED 1'-6" INTO EXISTING CONCRETE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

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

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE, SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-14-116".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAW CUT.

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 DECK REPAIR".

APPLY PIGMENTED SURFACE SEALER TO THE TOP AND ROADWAY FACE OF PARAPETS WITHIN THE LIMITS OF JOINT REPAIR.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

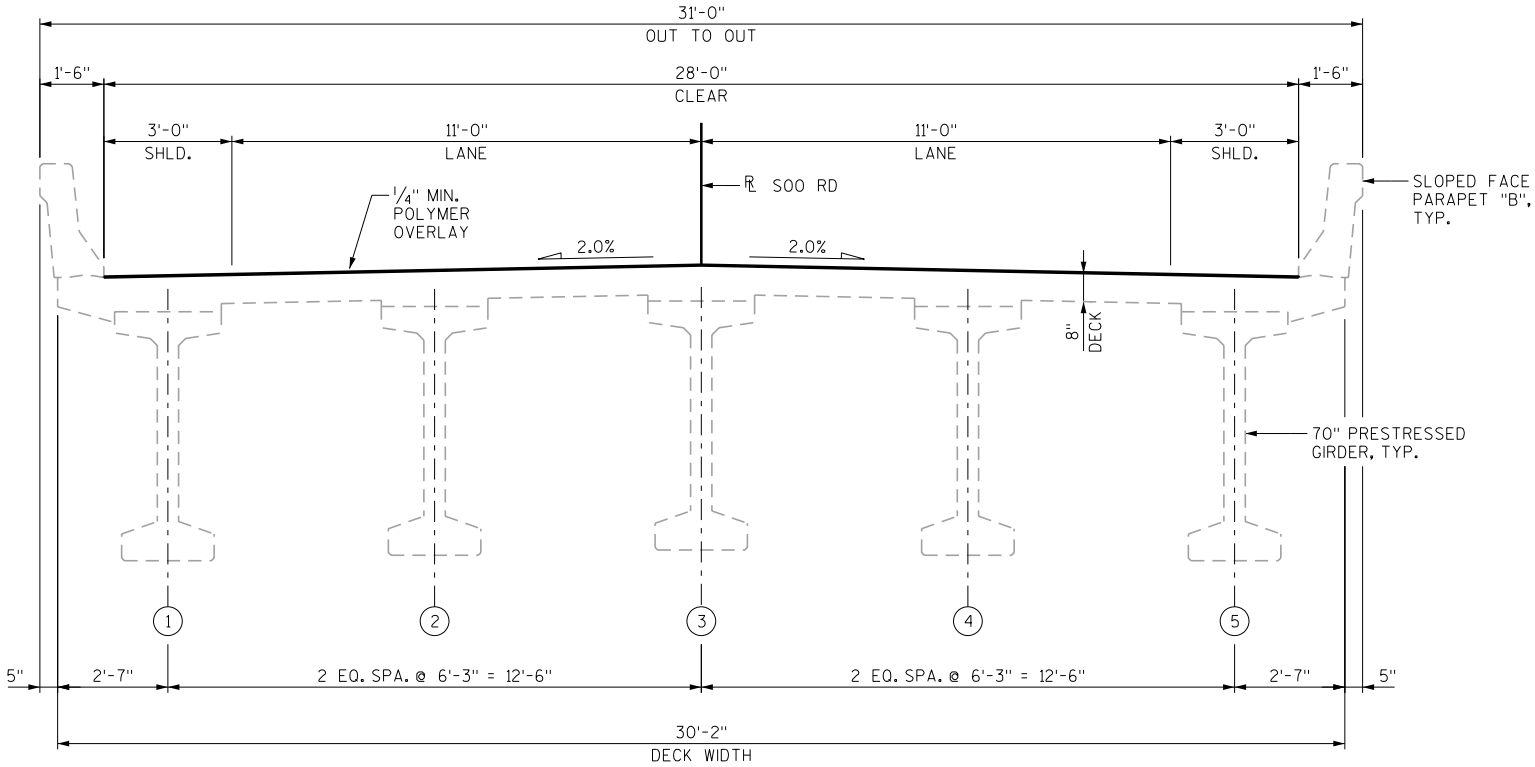
POLYMER OVERLAY TO BE APPLIED TO THE ENTIRE TOP OF DECK AND TO THE TOP OF THE PAVING BLOCK.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER	TOTAL
203.0225.S.02	DEBRIS CONTAINMENT B-14-116	LS				
502.3100.02	EXPANSION DEVICE B-14-116	LS				
502.3210	PIGMENTED SURFACE SEALER	SY				
502.4205	ADHESIVE ANCHOR NO.5 BAR	EACH				
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB				
☆ 509.0301	PREPARATION DECKS TYPE 1	S				
☆ 509.0302	PREPARATION DECKS TYPE 2	SY				
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	SY				
509.1000	JOINT REPAIR	LF				
☆ 509.2000	FULL-DEPTH DECK REPAIR	SY				
☆ 509.2100.S	CONCRETE MASONRY DECK REPAIR	CY				
509.5100.S	POLYMER OVERLAY	SY				

☆ QUANTITY LISTED IS AN ESTIMATE ONLY. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH ENGINEER.

ALL BID ITEMS ARE CATEGORY 0030.



SECTION THRU BRIDGE
DIMENSIONS SHOWN ARE NORMAL TO R S00 ROAD
(LOOKING EAST)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-14-116			
		DRAWN BY VJD	PLANS CK'D. FH
SECTION, NOTES, AND QUANTITIES			SHEET 2 OF 2