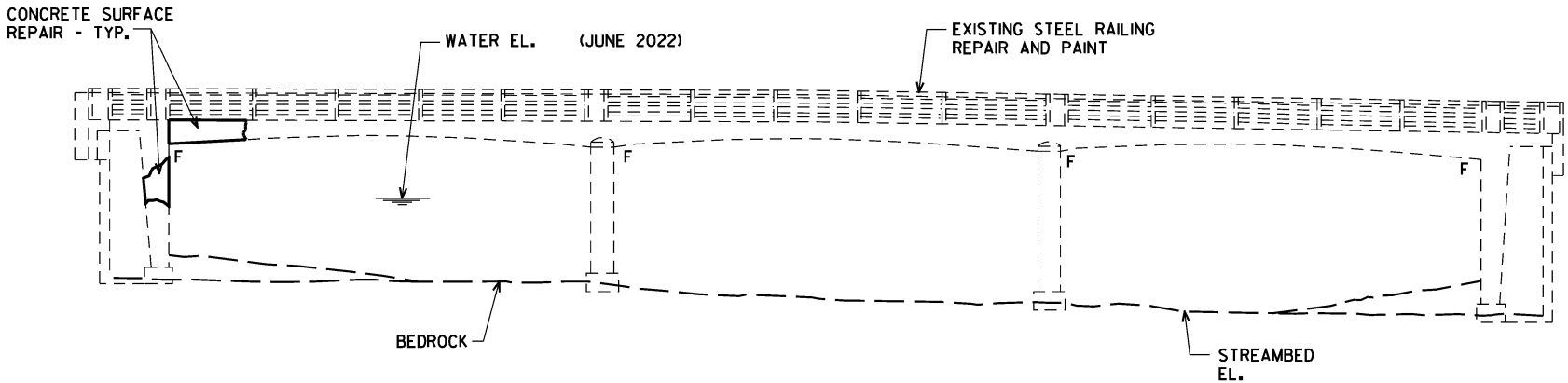


**PLAN**  
THREE-SPAN CONCRETE RIGID-FRAME BRIDGE  
(CONCRETE OVERLAY & PAINTING)



NOTE:  
CONCRETE SURFACE REPAIR  
REQUIRED AS DIRECTED BY THE  
ENGINEER IN THE FIELD.

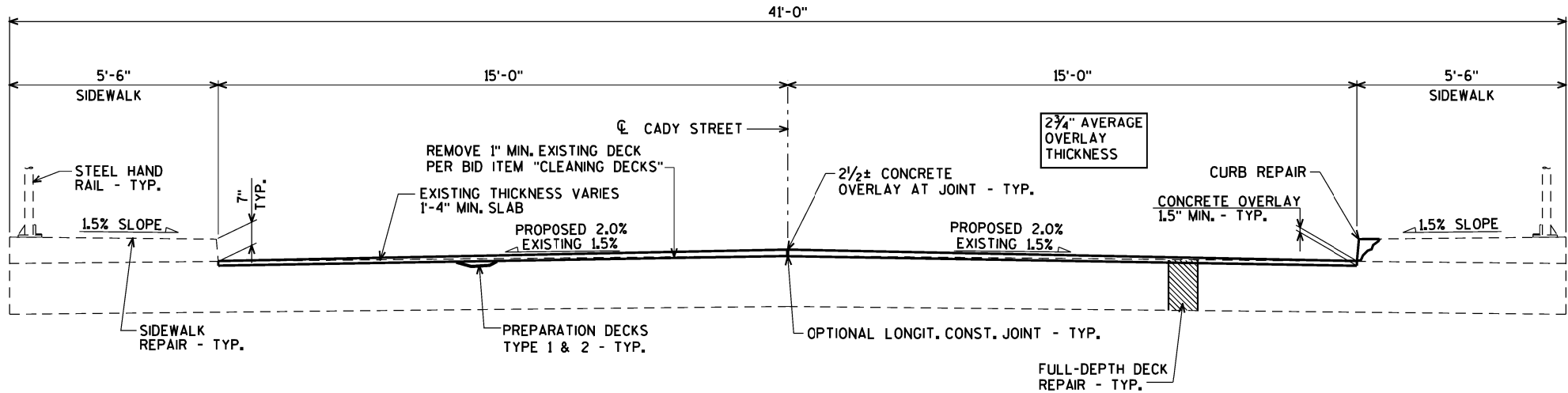
**LIST OF DRAWINGS**

1. GENERAL PLAN
2. TYPICAL SECTION, QUANTITIES & NOTES

FOR TYPICAL SECTION,  
DESIGN DATE & NOTES  
SEE SHEET 2

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY			
<b>AYRES</b> 3433 Oakwood Hills Parkway Eau Claire, WI 54701 www.AyresAssociates.com			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		CHIEF STRUCTURES DESIGN ENGINEER	DATE
<b>STRUCTURE P-28-706</b>			
CADY STREET OVER ROCK RIVER			
COUNTY	JEFFERSON	TOWN/CITY/VILLAGE	WATERTOWN
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	DESIGN CK'D.	DRAWN BY	CLP PLANS CK'D.
<b>GENERAL PLAN</b>			SHEET 1 OF 2

BRIDGE OFFICE CONTACT:  
AARON BONK  
(608)-261-0261  
CONSULTANT CONTACT:  
DAN SYDOW  
(715)-834-3161



TYPICAL SECTION THRU BRIDGE  
(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0500	CLEANING DECKS	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	
SPV.0060	RAILING REPAIR AND PAINTING	EACH	

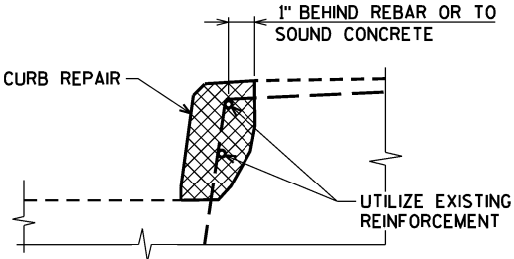
- ▲ BID ITEM INCLUDES CONCRETE FOR 1 1/2" MIN. OVERLAY, PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL DEPTH DECK REPAIR.
- UNDISTRIBUTED AS DIRECTED BY ENGINEER IN THE FIELD.

DESIGN DATA

LIVE LOAD:  
DESIGN LOADING: HS-20  
INVENTORY RATING:  
OPERATING RATING:  
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = KIPS

MATERIAL PROPERTIES:  
CONCRETE MASONRY { DECK PATCHING & OVERLAY  $f'_c = 4,000$  p.s.i.  
{ ALL OTHER  $f'_c = 3,500$  p.s.i.  
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)  $f_y = 60,000$  p.s.i.

TRAFFIC DATA:  
CADY STREET  
A.A.D.T. = xxxx (2023)  
A.A.D.T. = xxxx (2043)  
R.D.S. = 30 M.P.H.



CURB REPAIR DETAIL

NOTE:  
LIMITS OF CURB REPAIR SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. VERTICAL AND HORIZONTAL LIMITS OF CURB REPAIR SHALL BE DEFINED BY A 1/2" DEEP SAW CUT.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.  
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.  
PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.  
A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM, "CLEANING DECKS".  
THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS 1/2-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.  
PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR 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".  
ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".  
PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER "CLEANING DECKS". EXPECTED AVERAGE OVERLAY THICKNESS IS 2 1/2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.  
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.  
ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT.  
ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM "PREPARATION DECKS".  
UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.  
JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.  
BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.  
SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE OVERLAY DECKS".  
"CONCRETE SURFACE REPAIR" TO INCLUDE BUT NOT LIMITED TO ABUTMENTS, SIDEWALKS, AND EDGE OF DECK AS DIRECTED BY THE ENGINEER.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE P-28-706			
DRAWN BY		CLP	PLANS CK'D.
TYPICAL SECTION, QUANTITIES & NOTES			SHEET 2 OF 2

ORIGINAL PLANS PREPARED BY  
**AYRES** 3433 Oakwood Hills Parkway  
Eau Claire, WI 54701  
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