

PLOT DATE : 12/11/2020

STATE PROJECT NUMBER

DESIGN DATA

5334-00-70 LIVE LOAD: DESIGN LOADING: HL-93 INVENTORY RATING: RF = 1.XY OPERATING RATING: RF = 1.YZ WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF MATERIAL PROPERTIES: CONCRETE MASONRY SUPERSTRUCTURE f'c = 4,000 psi ALL OTHER f'c = 3,500 psi BAR STEEL REINFORCEMENT. HIGH STRENGTH, GRADE 60 fy = 60,000 psi 36-INCH PRESTRESSED GIRDERS, CONCRETE MASONRY f'c = 8,000 psi f'ci = 6,800 psi 0.5" DIA. PRESTRESSING STRANDS f's = 270,000 psi HYDRAULIC DATA 100 YEAR FREQUENCY: DRAINAGE AREA = 0.0 SQ. MI. WATERWAY AREA = 000 SQFT VELOCITY = 0.00 FPS Q(100) = 000 CFS HIGH WATER (100) EL. = 000.00 ROADWAY OVERTOPPING FREQUENCY = N/A SCOUR CRITICAL CODE = 8 2 YEAR FREQUENCY: Q(2) = 000 CFS HIGH WATER (2) EL. = 0000.00 VELOCITY = 0.00 FPS FOUNDATION DATA: ABUTMENTS TO BE SUPPORTED ON HP 10X42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 160 TONS * PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 80 FEET LONG. PILE POINTS ARE REQUIRED. * THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY. TRAFFIC DATA: <u>CTH E:</u> ADT = 3,164 (2023) ADT = 3,495 (2043) RDS = 60 MPH PRELIMINARY PLANS CROSS SECTION AND QUANTITIES SUBSURFACE EXPLORATION REVISION B

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NT *** NT WING DETAILS *** NT DETAILS *** NT *** NT WING DETAILS ***	Canal Street, Sulle 200 MWaukee, VI 53233 414.347,1007 Fax 414.347,1347							
NT DETAILS * * *) GIRDER DETAILS * * * GM * * *		STATE OF	ALSO FUND FRAME ALIANALISAT					
RE PLAN *** RE CROSS SECTION ***	ACCEPTED CH	IEF STRUCTURES D	ESIGN EN	GINEER	D.	ATE		
RE DETAILS*** JRAL APPROACH SLAB*** STRUCTURE B-53-385								
JRAL APPROACH SLAB*** PPROACH SLAB DETAILS***	CTH E OVER MARSH CREEK							
ARAPET 42SS * * * AT RIVER CROSSING * * *	COUNTY	ROCK	TOWN	JAL	NESVIL	LE		
	DESIGN SPEC	- AASHIU L		DGE D				
IN TREEMINART TEAM	DESIGNED ME	DR CK'D. JRM	DRAWN BY	RJK	PLANS CK'D.	MDR		
DESIGN CONTACTS	GEN	NERAL PL	AN	SHE	ET 1	OF 20		
N BONK (608) 261-0261 RADTKE (414) 347-1607	&	ELEVATIO	N					

PLOT BY : rjk

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NAVD 88 DATUM (2012 ADJUSTMENT).

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

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

ALL REINFORCING BARS ARE ENGLISH DESIGNATION AND THE FIRST DIGIT OF A 3-DIGIT BAR MARK OR FIRST TWO DIGITS OF A 4-DIGIT BAR MARK SIGNIFY THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-53-385".

AT THE BACKFACE OF THE ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 20 AND IN THE ABUTMENT DETAILS.

EXISTING BRIDGE B-53-10 IS A SIMPLE SPAN CAST-IN-PLACE GIRDER BRIDGE WITH AN OVERALL WIDTH OF 41'-O" AND AN OVERALL LENGTH OF 43'-O" AND IS TO BE REMOVED IN ITS ENTIRETY.

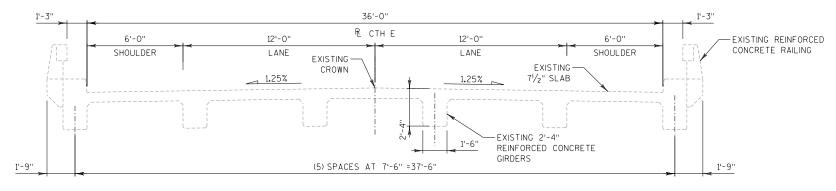
 \swarrow APPLY protective surface treatment to the top of bridge deck and to the TOP AND SIDE OF THE APPROACH SLAB NOTCH.

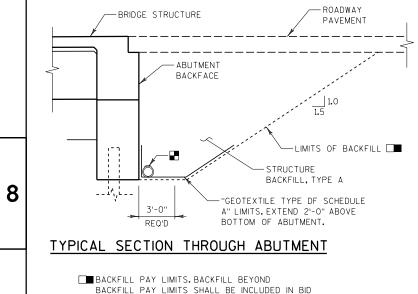
APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACES OF PARAPETS.

TOTAL ESTIMATED QUANTITIES

5

BID ITEM NO.	BID ITEMS		SOUTH ABUT.	NORTH ABUT.	SUPER	TOTAL
203.0600.	SREMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA 113+50	LS	-	-	-	1
206.1000	0 EXCAVATION FOR STRUCTURES BRIDGES B-53-385		-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A			180	-	360
502.0100	CONCRETE MASONRY BRIDGES		46	46	114	206
502.3200	PROTECTIVE SURFACE TREATMENT		-	-	286	286
502.3210	PIGMENTED SURFACE SEALER		12	12	67	91
503.0136	PRESTRESSED GIRDER TYPE I 36-INCH		-	-	396	396
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES		5175	5175	-	10350
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES		1725	1725	22800	26250
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED		6	6	-	12
506.4000	STEEL DIAPHRAGMS B-53-385		-	-	5	5
516.0500	RUBBERIZED MEMBRANE WATERPROOFING		14	14	-	28
550.1100	PILING STEEL HP 10-INCH X 42 LB		330	360	-	690
606.0300	RIPRAP HEAVY		100	100	-	200
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH		80	80	-	160
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD		2	2	-	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A		60	60	-	120
645.0120	GEOTEXTILE TYPE HR		150	150	-	300
	NON-BID ITEMS					
	FILLER				1/2",	3/4"

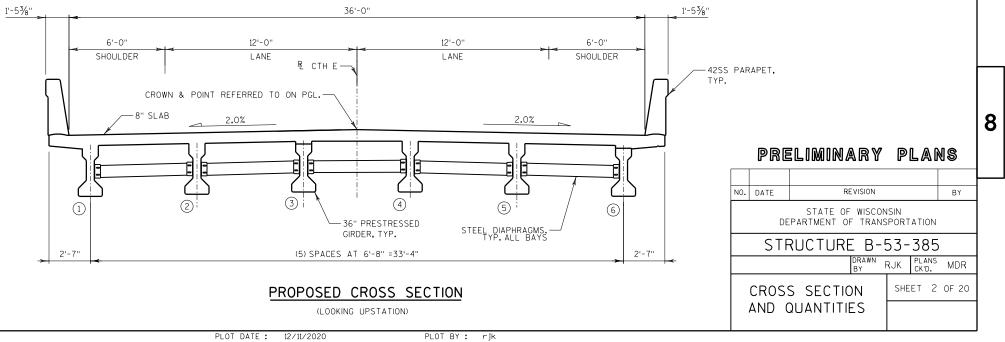




- ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-53-385". LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN.TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



(LOOKING UPSTATION)



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