

DESIGN DATA

LIVE LOAD:
DESIGN LOADING _____ HS20
INVENTORY RATING _____ HSXX
OPERATING RATING _____ HSXX
WISCONSIN STANDARD PERMIT
VEHICLE (WIS-SPV) _____ XXX KIPS

MATERIAL PROPERTIES:
CONCRETE SUPERSTRUCTURE _____ f'c = 4,000 PSI
CONCRETE SUBSTRUCTURE _____ f'c = 3,500 PSI
HIGH STRENGTH BAR STEEL
REINFORCEMENT (GRADE 60) _____ fy = 60,000 PSI

TRAFFIC DATA

USH 53
A.D.T. (2023) = 7,320
DESIGN SPEED = 80 MPH

CTH A
A.D.T. (2011) = 450
DESIGN SPEED = 60 MPH

LEGEND

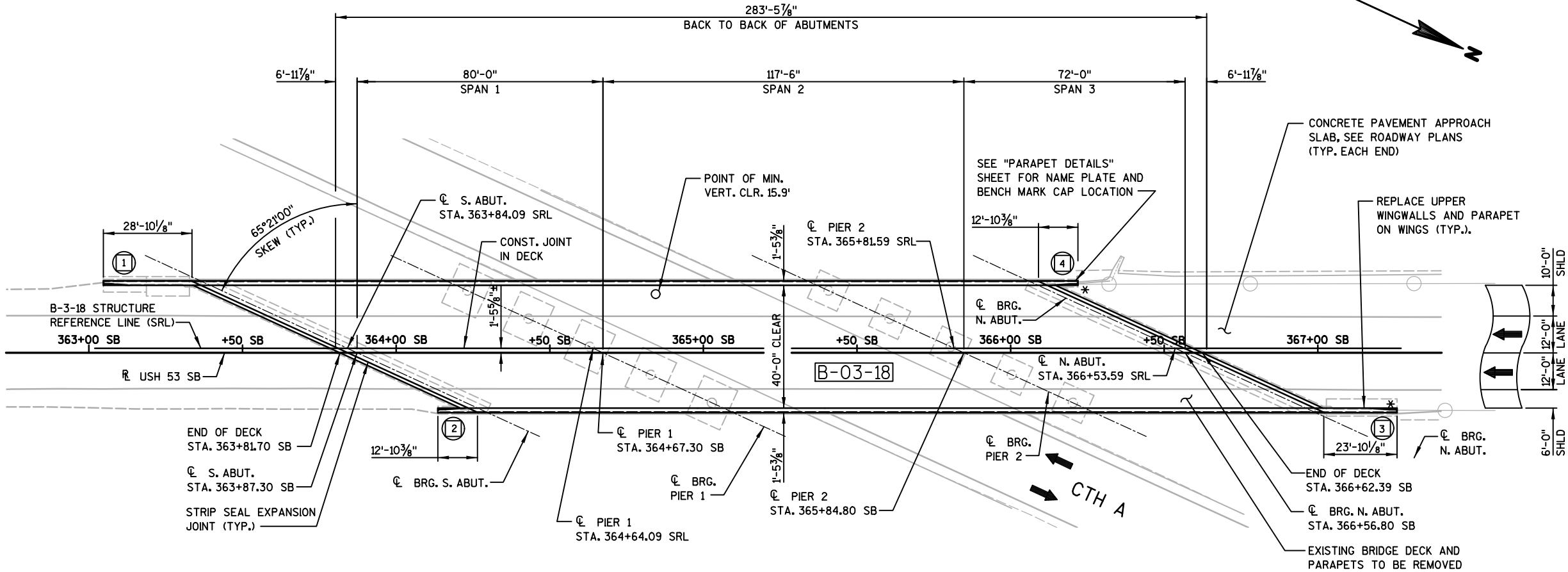
- * LOCATION OF ANCHOR ASSEMBLIES FOR THRIE BEAM ATTACHMENT.
(X) DENOTES WINGWALL NUMBER.
▲ MIN. VERTICAL CLEARANCE TAKEN FROM HSISITE.

LIST OF DRAWINGS

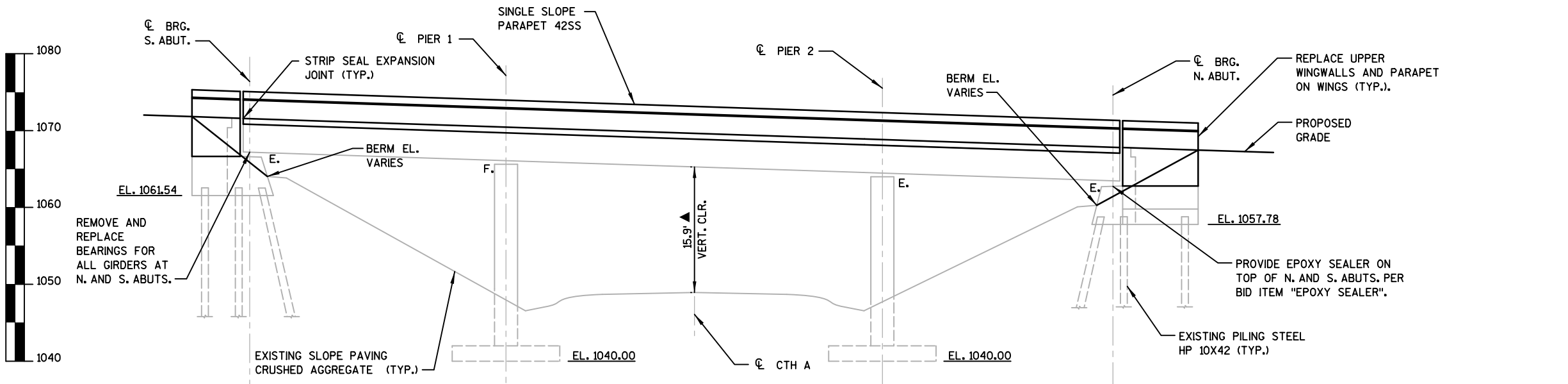
- GENERAL PLAN
- CROSS SECTIONS & QUANTITIES
- CONSTRUCTION STAGING

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE CONTACT:
WILLIAM DREHER (608) 266-8489
DESIGN CONSULTANT CONTACT:
BRETT OFTEDAHL (608) 251-4843



PLAN
(DECK REPLACEMENT - 3 SPAN STEEL PLATE GIRDERS)




ELEVATION
(NORMAL TO CTH A)

BENCH MARKS

BM NO.	COORDINATES	DESCRIPTION	ELEV.
BM 1	Y: 62,128.59 X: 354,745.03	NW CORNER BRIDGE DECK B-3-24 (CTH I)	1065.33
BM 2	Y: 61,303.85 X: 355,782.67	NW CORNER BRIDGE DECK B-3-20 (CHETEK RIVER)	1043.96
BM 3	Y: 66,181.31 X: 349,955.75	NW CORNER BRIDGE DECK B-3-26 (KNAPP STREET)	1077.68

NOTE: BENCH MARKS ARE OUTSIDE OF PLAN EXTENTS. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.

NO.	DATE	REVISION	BY
 <div>910 WEST WINGRA DRIVE MADISON, WISCONSIN 53715 (608)-251-4843 (608) 251-8655 FAX WWW.STRAND.COM</div>			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		CHIEF STRUCTURES DESIGN ENGINEER	DATE
STRUCTURE B-3-18			
USH 53 SB OVER CTH A			
COUNTY	BARRON	TOWN/CITY/VILLAGE	DOVRE
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	EJC	DESIGN CK'D.	BMO
DRAWN BY	DTH	PLANS CK'D.	BMO
GENERAL PLAN			SHEET 1 OF 3

GENERAL NOTES

THE PROPOSED WORK INCLUDES REMOVING AND REPLACING THE CONCRETE DECK AND PARAPETS, CONCRETE SURFACE REPAIR AT ABUTMENTS, CLEANING AND REPAINTING TOP FLANGES OF GIRDERS, REMOVING AND REPLACING BEARINGS AND EXPANSION JOINTS AT ABUTMENTS, EPOXY SEALING TOP OF ABUTS., AND REPLACING UPPER WINGWALLS.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND SUBSEQUENT REHABILITATION PLANS.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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

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

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING OLD DECK AS TO NOT DAMAGE THE EXISTING GIRDERS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE DECK.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE TOP, ENDS, AND ROADWAY FACES OF NEW CONCRETE PARAPET.

VARIATIONS TO THE NEW GRADE LINE OVER 1/4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE INCLUDED WITH BID ITEM "EXPANSION DEVICE B-3-18".

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWING. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR, 1972.

CONTRACTOR IS RESPONSIBLE FOR GIRDER STABILITY DURING REMOVAL AND REPLACEMENT OF THE CONCRETE DECK.

PERFORM CONCRETE SURFACE REPAIR AS DIRECTED BY THE FIELD ENGINEER. QUANTITY SHOWN IS APPROXIMATE.

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

AT ABUTMENTS, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

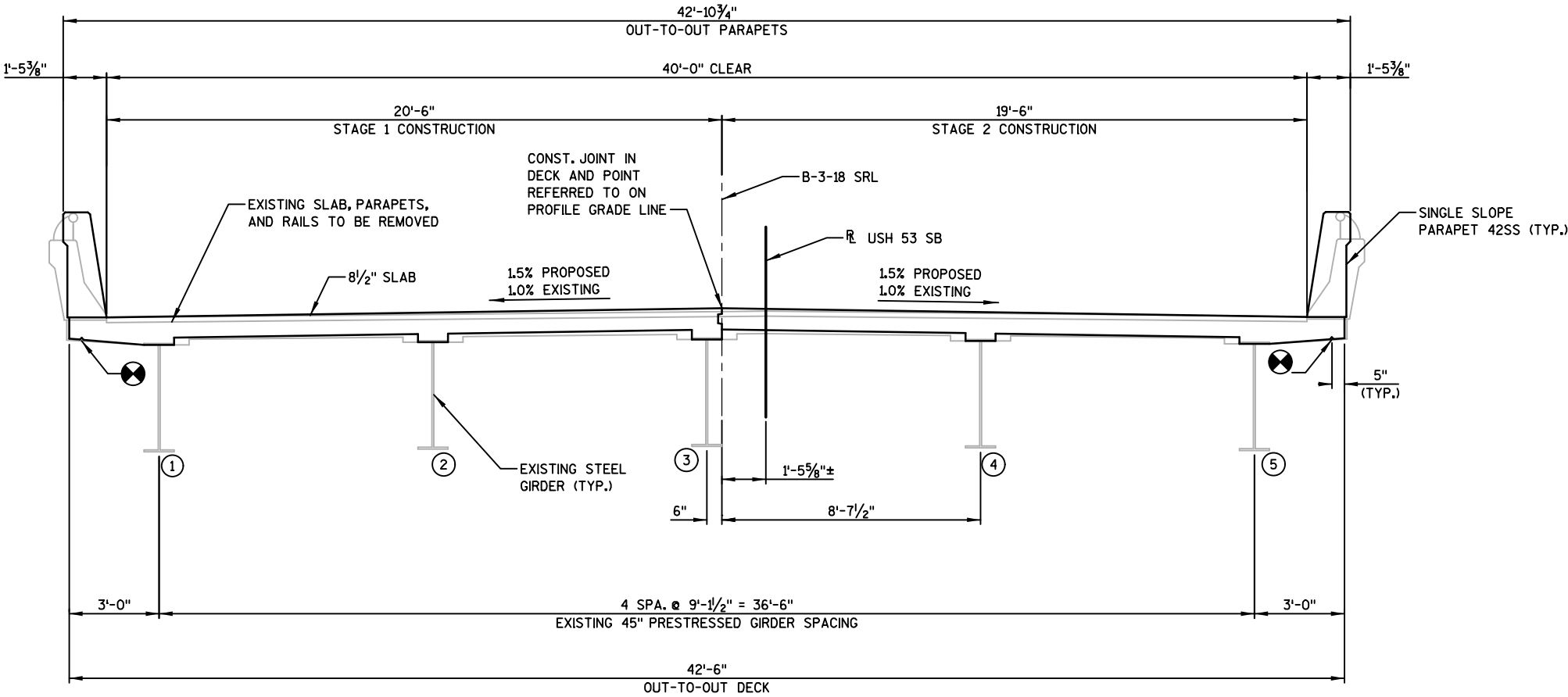
THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE COLOR OF THE FINISH TOP COAT ON THE STEEL GIRDERS SHALL BE AMS STANDARD COLOR NO. 26293 (LIGHT GRAY).

LEGEND

(X) DENOTES GIRDER NUMBER

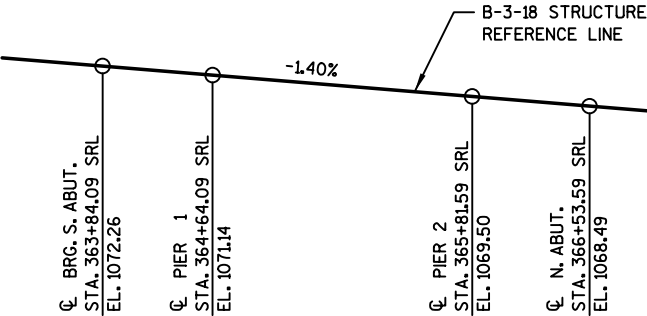
3/4" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF SOUTH ABUT. DIAPH. AND 2'-0" FROM F.F. OF NORTH ABUT. BODY.



EXISTING AND PROPOSED TYPICAL CROSS SECTION
(LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	S. ABUT	N. ABUT.	SUPERSTRUCTURE	TOTAL	UNIT
203.0200	REMOVING OLD STRUCTURE STA. 365+00 SB	---	---	---	1	LS
203.0210.S	ABATEMENT OF ASBESTOS CONTAINING MATERIALS B-3-18	---	---	---	1	LS
203.0225.S	DEBRIS CONTAINMENT B-3-18	---	---	---	1	LS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-3-18	---	---	---	1	LS
210.1500	BACKFILL STRUCTURE TYPE A	---	---	---	0	TON
502.0100	CONCRETE MASONRY BRIDGES	---	---	---	0	CY
502.3101	EXPANSION DEVICE B-3-16	---	---	---	0	LF
502.3200	PROTECTIVE SURFACE TREATMENT	---	---	---	0	SY
502.3210	PIGMENTED SURFACE SEALER	---	---	---	0	SY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	---	---	---	0	EACH
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	---	---	---	0	LB
505.0905	BAR COUPLERS NO. 5	---	---	---	0	EACH
506.6000	BEARING ASSEMBLIES EXPANSION B-3-18	5	5	---	10	EACH
506.7050.S	REMOVING BEARINGS B-3-18	5	5	---	10	EACH
509.1500	CONCRETE SURFACE REPAIR	50	30	---	80	SF
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	---	---	---	0	SY
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-3-18	---	---	---	1	LS
517.3000.S	STRUCTURE OVERCOATING CLEANING AND PRIMING B-3-18	---	---	---	1	LS
517.4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-3-18	---	---	---	1	LS
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	---	---	---	0	EACH
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	---	---	---	0	SY
SPV.0180.XX	EPOXY SEALER	---	---	---	0	SY
NON-BID ITEMS		---	---	---		
	FILLER	---	---	---	1/2", 3/4"	SIZE



PROFILE GRADE SOUTHBOUND LANE B-3-18

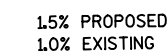
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-3-18			
DRAWN BY		OTH	PLANS CK'D. BMO
CROSS SECTION AND QUANTITIES			SHEET 2 OF 3



(LOOKING NORTH)



(LOOKING NORTH)



(LOOKING NORTH)



(LOOKING NORTH)

* SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.

(X) DENOTES GIRDER NUMBER

SEE ROADWAY PLANS FOR ADDITIONAL
STAGING INFORMATION.

CONSTRUCTION STAGING