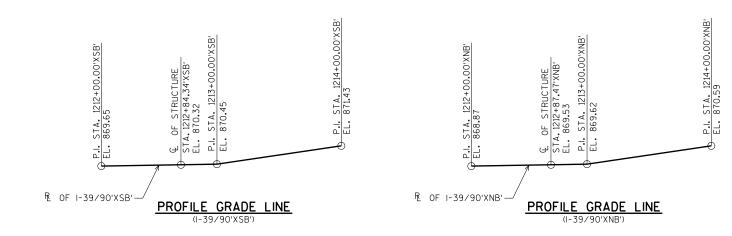


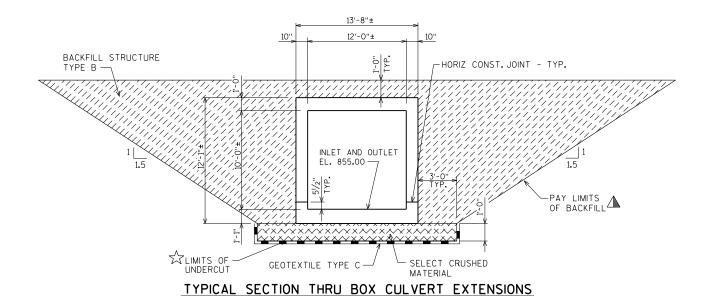
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TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	INLET	OUTLET	TOTAL
8	203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STATION 1212+84.34'XSB'	LS			1
	206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-13-44	LS			1
	210.2500	BACKFILL STRUCTURE TYPE B	TON			
	312.0110	SELECT CRUSHED MATERIAL	TON			
	502.4205	ADHESIVE ANCHORS NO.5 BAR	EACH			
	504.0100	CONCRETE MASONRY CULVERTS	CY			
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB			
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB			
	509.1500	CONCRETE SURFACE REPAIR	SF			
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY			
	606.0300	RIPRAP HEAVY	CY			
	645.0105	GEOTEXTILE TYPE C	SY			
	645.0120	GEOTEXTILE TYPE HR	SY			
		NON-BID ITEMS				
		FILLER	SIZE			3/4"

⊗ UNDISTRIBUTED IN EXISTING BARREL TO REMAIN AS DIRECTED BY ENGINEER IN THE FIELD





BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE

NOTE: MATCH EXISTING CUI VERT OPENING

TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH SELECT CRUSHED MATERIAL.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: OPERATING RATING FACTOR:

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) =

HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) _____f_v=

EARTH LOAD: 2 FEET

MATERIAL PROPERTIES:

CONCRETE MASONRY

2' to 4', BM 36.5, Max load on entire structure.

The extension is to have full structural capacity of any location along the structure.

STATE PROJECT NUMBER

1007-12-79

100 YEAR FREQUENCY

 $Q_{100} = 820$ c.f.s. VEL.= 9.3 f.p.s. $HW_{100} = EL. 865.1$ WATERWAY AREA = 88 sq. ft. DRAINAGE AREA = 2.21 sq. mi.

ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = N/A

TRAFFIC DATA:

A.A.D.T. = 86,100 (2013) A.A.D.T. = 116,000 (2040) R.D.S. = 70 M.P.H.

FOUNDATION DATA:

BOX CULVERT EXTENSIONS TO BE SUPPORTED ON 1'-O" THICK SELECT CRUSHED MATERIAL WITH A MAXIMUM ALLOWABLE BEARING PRESSURE OF 4,000 PSF.

2 YEAR FREQUENCY

3,500 p.s.i.

60,000 p.s.i.

 $Q_2 = 290 \text{ c.f.s.}$ VEL.= 4.0 f.p.s. $HW_2 = EL. 862.2$

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE. 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. THE ALTERNATE CUTOFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUTOFF WALLS. PAYMENT SHALL BE BASED ON THE CONCRETE CUTOFF WALLS.

THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE EXCAVATION CANNOT BE DEWATERED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS

C-13-44" SHALL BE THE EXISTING GROUNDLINE

THE BACKFILL OUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON

THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES.

"BACKFILL STRUCTURE TYPE B" REQUIRED ON THE BOX CULVERT SIDES

AND BEHIND APRON WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY

LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL

TO EXCAVATION FOR STRUCTURES

ALL VOLUME SHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE B WITHIN THE LENGTH OF THE CULVERT

INLCUDING THE APRON WING WALLS.

THE EXISTING STRUCTURE C-13-44, IS A 3-SIDED CONCRETE CULVERT WITH 12'SPAN x 146.5'± LONG BARREL THAT HAS BEEN EXTENDED 25'-0" AT THE WEST END WITH A SINGLE CELL 12'-0" x 10'-0" CONCRETE BOX CULVERT.

REMOVING OLD STRUCTURE STATION 1212+84.34'XSB', INCLUDES REMOVING OUTLET AND INLET WINGS AND APRON.

DIMENSIONS SHOWN ARE BASED ON FIELD MEASUREMENTS. THE CONTRACTOR SHALL ADJUST THE DIMENSIONS OF THE BOX CELL OPENINGS TO MATCH THE EXISTING CULVERT.

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

FILLET THE FORMS WITH 3/4 INCH TRIANGULAR MOLDING CHAMFER STRIPS AT ALL EXPOSED, SHARP CORNERS AND AT THE EDGES OF THE CONCRETE, UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW THE ORIGINAL CONSTRUCTION YEAR (1960).

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

IF ADDITIONAL EXCAVATION IS REQUIRED UNDER THE CULVERT, IT WILL BE PAID FOR AS COMMON EXCAVATION/EBS. SEE THE ROADWAY PLANS FOR BID ITEMS.

SEE ROADWAY PLANS FOR DIVERSION CHANNEL DETAILS.

NO. DATE BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE C-13-44 DRAWN BY CLS/JLB CK'D. DESIGN DATA. SHEET 2 OF 3 QUANTITIES

AND NOTES

8

ORIGINAL PLANS PREPARED BY

ASSOCIATES 3433 Odkwood Hills Parkwo 3433 Oakwood Hills Parkway

