WOODED OR SHRUB AREA

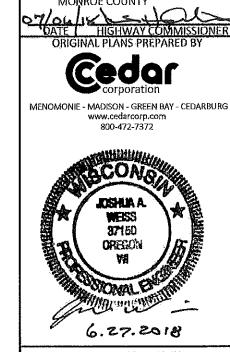
STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details (Includes Erosion Control Plans) Structure Section No PLAN OF PROPOSED IMPROVEMENT Section No. Section No. Section No. **AS-BUILT PLAN STH 21 - CTH B** Section No. Section No. Computer Earthwork Date C-41-0139 (BRANCH LA CROSSE RIVER BRIDGE C-41-0139) Section No CTH Q TOTAL SHEETS = SUPERVISOR: Jim Savoldelli Original Total: 36 Sheets Deleted: 24, 30, 31, 32, 33, 34 PROJECT MANAGER: Brian Meyer **MONROE COUNTY** New Sheets: 14.1, 24a, 30a, 31a, 32a, 33a, 34a PROJECT LEADER: Matt Palkowski Sheets Updated: 9, 14, 14.1, 22, 24a CONTRACTOR: Concrete Structures, Inc. STATE PROJECT NUMBER CONSTRUCTION STARTED: 04/01/2019 5005-00-71 CONSTRUCTION COMPLETE: 06/21/2019 R-4-W **END PROJECT** FILMORE STA 11+00.00 FENWOOD 31 - PROJECT LOCATION STRUCTURE C-41-0139 GAVELAVE DESIGN DESIGNATION STA 10+00.00 AADT. A A D.T. D,H,V. Q ⇒ 60/40 D D = 40% **BEGIN PROJECT** DESIGN SPEED = 50 MPH = 59,000 STA 9+00.00 T-17-N Y=389709.420 AVE/ X=634280.627 CONVENTIONAL SYMBOLS **PROFILE** CORPORATE LIMITS GRADE LINE 9////// PROPERTY LINE MARSH OR ROCK PROFILE LOTTINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION \$parta PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE SCALE MARSH AREA HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY UTILITY PEDESTAL COUNTY, NAD83 (YEAR), IN U.S. SURVEY COORDINATES, MONROE TOTAL NET LENGTH OF CENTERLINE = 0.038 MI

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5005-00-71

Subcontractor List

Brickline Inc. Geo-Metra Surveying & Mapping, LLC Mathy Construction Company Mattison Contractors, Inc. Safemark, LLC St. Joseph Construction Co., Inc.

ACCEPTED FOR



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	CEDAR CORPORATION
Designer	CEDAR CORPORATION
Management Consultant	KL ENGINEERING

FEET VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID

DISTANCES GRID DISTANCES MAY BE USED AS GROUND DISTANCES

POWER POLE

TELEPHONE POLE

The whole box culvert was shifted 5 feet up station. The new center of box station is 10+14. STATE PROJECT NUMBER 40'-1¾" 5005-00-71 24'-7%" 12'-6¼" 20'-31/4" 32'-10° 32'-10" 18'-1114" **LEGEND** 7'-9" (1) PROPOSED ○ INDICATES WING NUMBER STRUCTURE C-41-139 STA. 10+09.00 NAME PLATE LOCATION (SEE SHEET 5) 3 CORNER DETAILS (SEE SHEET 5) REFERENCE LINE € OF CTH Q ÷ NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS, © OF CULVERT The inlet cutoff wall was **BRANCH** LA CROSSE RIVER poured before the designers ∠ BEVEL 2" decided to shift the box 5 feet up station. Therefore, the cutoff wall hangs outside BEVEL 2 wing 2 by about 5 feet. An extension to the cutoff was **(4)** EXISTING constructed so wing 1 could and a children of the state of sit on the cutoff wall as P-41-942 RIPRAP HEAVY AND -GEOTEXTILE TYPE HR TO BE designed. Rebar was added REMOVED and drilled in the cutoff wall 15'-0%" 7'-0" extension under wing 1. **PLAN** BUILD APRON & END OF BOX LEVEL. **BUILD APRON & END OF BOX LEVEL** SINGLE CELL CONCRETE BOX CULVERT € CTHQ -TOP SLAB · HW₁₀₀ EL. 797.34 2" REVEL OBSERVED WATER (TYP.) EL. 791.20 -EL. 789.50 2" BEVEL **1** (5-9-2017) LEVEL CUT OFF WALL **BOTTOM SLAB** MECONS CUT OFF WALL UNDERCUT 2'-0" EXCAVATION FOR UNDERCUT TO OPTIONAL BE INCLUDED IN EXCAVATION FOR STRUCTURES, LIST OF DRAWINGS CONST. JOINT GEOTEXTILE RIPRAP HEAV PLACE GEOTEXTILE TYPE 'C', AND BACKFILL WITH TYPE HR (TYP.) CONST. JOINT GEOTEXTILE -780 SUBSURFACE EXPLORATION INLET OUTLET TROY L. BOX DETAILS 1 **ELEVATION** BOX DETAILS 2 INLET APRON DETAILS **PETERSON** LOOKING UP STATION E-31102 INLET WING DETAILS **DESIGN DATA** OUTLET APRON DETAILS MENOMONIE OUTLET WING DETAILS LIVE LOAD: INVENTORY RATING FACTOR. RF = 1.05BRIDGE OFFICE CONTACT CONSULTANT CONTACT OPERATING RATING FACTOR -RF = 1.35 **GENERAL NOTES** WILLIAM DREHER TROY L. PETERSON EARTH LOAD: (608) 266-8489 (715) 235-9081 DRAWINGS SHALL NOT BE SCALED. DESIGNED FOR 5 FEET OF FILL. 8-29-18 MATERIAL PROPERTIES: /PC STA, 9+25.00 /PC EL, 803.02 ALL STATIONS AND ALL ELEVATIONS ARE IN FEET. VPI STA. 10+00 VPI EL. 803.02 CONCRETE MASONRY f c=3,500 P.S.I. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE, HIGH STRENGTH BAR STEEL NO, DATE BY fv=60.000 P.S.I. REINFORCEMENT, GRADE 60 ALL REINFORCING BARS ARE ENGLISH. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE, HYDRAULIC DATA 8 8 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. 100 YEAR FREQUENCY PROPOSED GRADE LINE CTH Q THE EXISTING STRUCTURE (P-41-942) IS A 27.0' LONG SINGLE SPAN CONCRETE DECK GIRDER BRIDGE WITH TIMBER ABUTMENTS, TO BE REMOVED. 470 C.F.S. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-41-139" SHALL BE THE EXISTING GROUND LINE, TOTAL ESTIMATED QUANTITIES - EL 797.34 THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDER WATER IF THE EXCAVATION CANNOT BE DE-WATERED 45.81 SQ, FT. CHIEF STRUCTURES DESIGN ENGINEES TOTAL UNIT 1 LS 1 LS ITEM NO. BID ITEMS: REMOVING OLD STRUCTURE WITH MINIMUM DEBRIS STA 10+00 DRAINAGE AREA - 1.5 SQ. MI. ▲ 18[®] MINIMUM WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS AND ACROSS TOP SLAB AT VERTICAL CONSTRUCTION JOINTS. STRUCTURE C-41-139 ROADWAY OVERTOPPING - N/A EXCAVATION FOR STRUCTURES CULVERTS C-41-139 -BACKFILL STRUCTURE TYPE B 206.2000 ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED SCOUR CRITICAL CO CTH Q OVER BRANCH LA CROSSE RIVER 210,2500 2030 TON WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS 2 YEAR FREQUENCY BREAKER RUN 240 212 THE ALTERNATE CUTOFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. 90 C.F.S. Q₂ TOTAL -CONCRETE MASONRY CULVERTS -MONROE 504.0100 PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS. -3.76 E.P.S. BAR STEEL REINFORCEMENT HS STRUCTURES -32560 LB SIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS EL, 794.25 2950 LB 32 SY 100 CY 360 SY BAR STEEL REINFORCEMENT HS COATED STRUCTURES 505,0600 THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE RUBBERIZED MEMBRANE WATERPROOFING SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES TRAFFIC VOLUME RIPRAP HEAVY GEOTEXTILE TYPE (AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES" SHEET 1 OF 8 645.0120 GEOTEXTILE TYPE HR 190 LAYOUT UNDERCUT 2"-0". EXCAVATIONS FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. BACKFILL WITH "BREAKER RUN". NON-BID ITEMS: A.A.D.T. (2039) - 50 M.P.H. LOCATE NAME PLATE ON NEAREST RIGHT WING TRAVELING UP STATION, FACE NAME PLATE UP STATION DESIGN SPEED ¾" SIZE I.D. 5005-00-71 DATE: August 2018

The alternate cutoff wall was used for the outlet side. There was a spring at the outlet end that prevented a poured cutoff wall to be constructed; therefore, sheeting was installed. See sheet 14.1 for more information about the natural spring and new ditch.

