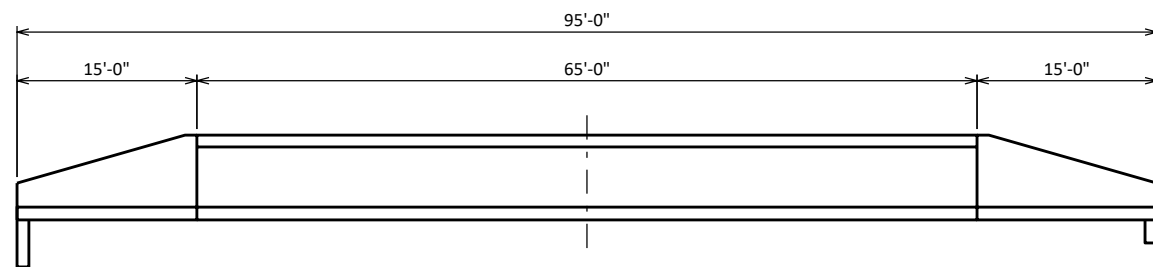
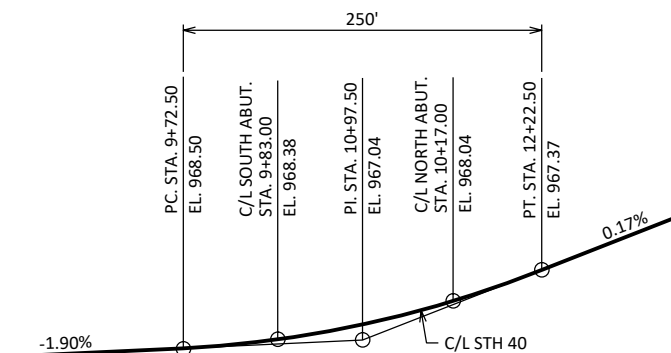


PLAN

SINGLE-SPAN CONCRETE FLAT SLAB



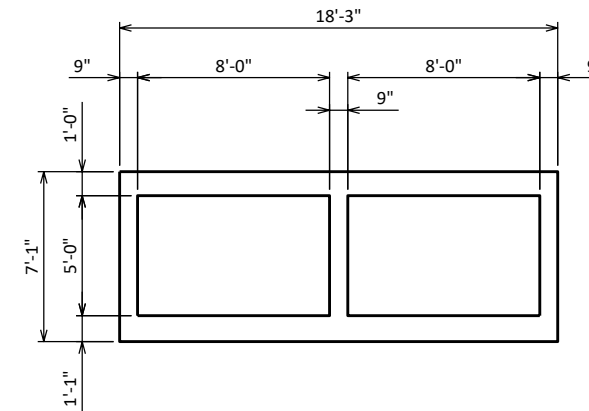
ELEVATION



PROFILE GRADE LINE

BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
50	10+09.72	CHISELED X IN W END N ABUT., 17' LT	968.07
51	8+99.33	RR SPIKE IN PPOL, 48' RT	963.49

* PROVIDE FOR THREE BEAM GUARD RAIL ATTACHMENT
 ○ INDICATES WING NUMBER



TYPICAL SECTION THRU BOX

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
 INVENTORY RATING: RF =
 OPERATING RATING: RF =
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): XXX (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
 SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB $f'_c = 4,000$ PSI
 ALL OTHER $f'_c = 3,500$ PSI
 HIGH STRENGTH STRUCTURAL STEEL:
 ASTM A709, GRADE 50 $f_y = 50,000$ PSI

CURVE DATA

FEATURE ON

P.I. = 9+66.74
 $\Delta = 14^\circ 57' 56.56''$
 D =
 T = 474.60
 L = 943.80'
 R = 3613.33'
 S.E. = 209203.51
 P.C. = 4+92.14
 P.T. = 14+35.94

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 50'-0" LONG.

**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 PILE CAPACITY.

HYDRAULIC DATA

100-YEAR FREQUENCY:

$Q_{100} = 270$ C.F.S.
 $V_{100} = 4.6$ F.P.S.
 $HW_{100} = 964.25$ EL.
 WATERWAY AREA = 59 SQ. FT.
 DRAINAGE AREA = 1.3 SQ. MI.
 ROADWAY OVERTOPPING = N/A
 SCOUR CRITICAL CODE = 8

2-YEAR FREQUENCY:

$Q_2 = 60$ C.F.S.
 $V_2 = 1.9$ F.P.S.
 $HW_2 =$ EL.

TRAFFIC DATA

FEATURE ON:

ADT = 3,790 (2026)
 AADT = 4,280 (2046)
 R.D.S. = MPH

LIST OF DRAWINGS:

- GENERAL PLAN
- QUANTITIES AND NOTES
- SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY



3433 Oakwood Hills Parkway
 Eau Claire, WI 54701
 www.AyresAssociates.com

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ DATE _____
 CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-17-0243

STH 40 OVER BRANCH SINKING CREEK

COUNTY DUNN VILLAGE COLFAX

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY ZSS CK'D AEB DRAWN BY ZSS CK'D PLANS

GENERAL PLAN

SHEET 1 OF 3

STRUCTURE DESIGN CONTACTS:
 AARON BONK 608-261-0261
 ARLEN BEAUDETTE 715-834-3161

I.D. DATE: