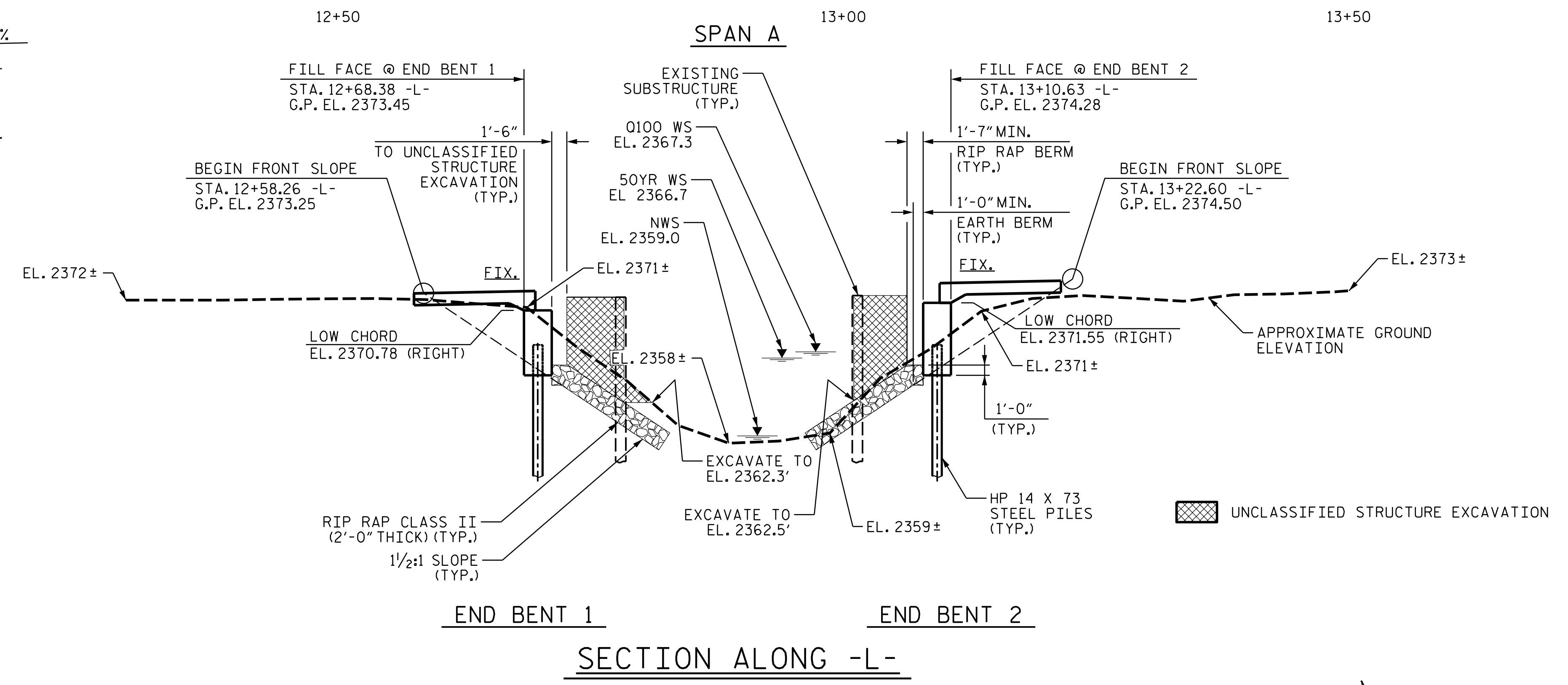


(+).1.3390% (+).1.9583%
 PVI STA = 11+80.00 -L-
 EL = 2371.72
 VC = 120.00'
GRADE DATA -L-

(+).1.9583% (+).3.2414%
 PVI STA = 14+30.00 -L-
 EL = 2376.62
 VC = 190.00'
GRADE DATA -L-

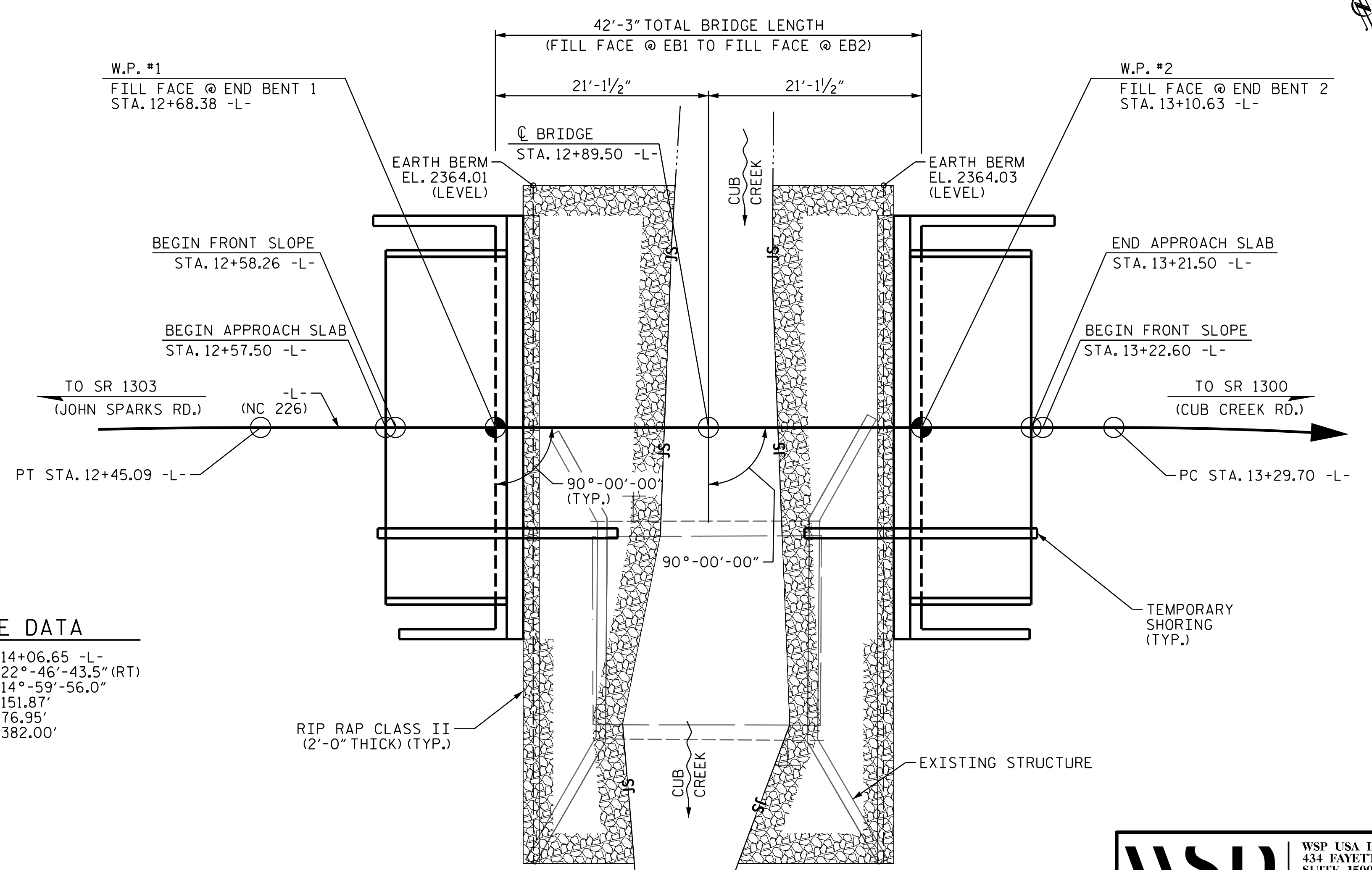


HYDRAULIC DATA

DESIGN DISCHARGE 1200 CFS
 FREQUENCY OF DESIGN FLOOD 50 YRS.
 DESIGN HIGH WATER ELEVATION 2366.7
 DRAINAGE AREA 3.4 SQ.MI.
 BASE DISCHARGE (0100) 1400 CFS
 BASE HIGH WATER ELEVATION 2367.3

OVERTOPPING FLOOD DATA

OVERTOPPING FLOOD DISCHARGE 1900+ CFS
 FREQUENCY OF OVERTOPPING FLOOD 500+ YRS.
 OVERTOPPING FLOOD ELEVATION 2373.55
 @ STA. 12+40.10 -L-



HORIZONTAL CURVE DATA

P.I. = 11+97.83 -L-	P.I. = 14+06.65 -L-
Δ = 7°-37'-41.6" (RT)	Δ = 22°-46'-43.5" (RT)
D = 8°-03'-30.5"	D = 14°-59'-56.0"
L = 94.66'	L = 151.87'
T = 47.40'	T = 76.95'
R = 711.00'	R = 382.00'

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PROJECT NO. B-5893
MITCHELL COUNTY
 STATION: 12+89.50 -L-

SHEET 1 OF 4 REPLACES BRIDGE NO. 600019

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE OVER CUB CREEK
 ON NC 226 BETWEEN
 SR 1303 AND SR 1300

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-1
2			4			TOTAL SHEETS 24

wsp
 WSP USA Inc.
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 TEL: 1.919.836.4040
 LICENSE NO. F-0165

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3/24/2023

Seal of J. Wheatley, Professional Engineer, State of North Carolina, License No. 036787.

3/24/2023 J:\188906R-14 B-5893 Bridge 19 over Cub Creek Structures\2.0 Drafting\Drawings\401.003.B5893.SMU.GD1.dgn

DESIGNED BY: J. WHEATLEY DATE: MAR 2023
 DRAWN BY: J. WHEATLEY DATE: MAR 2023
 CHECKED BY: T. KIRSCHBAUM DATE: MAR 2023
 DESIGN ENGINEER OF RECORD: J. WHEATLEY DATE: MAR 2023