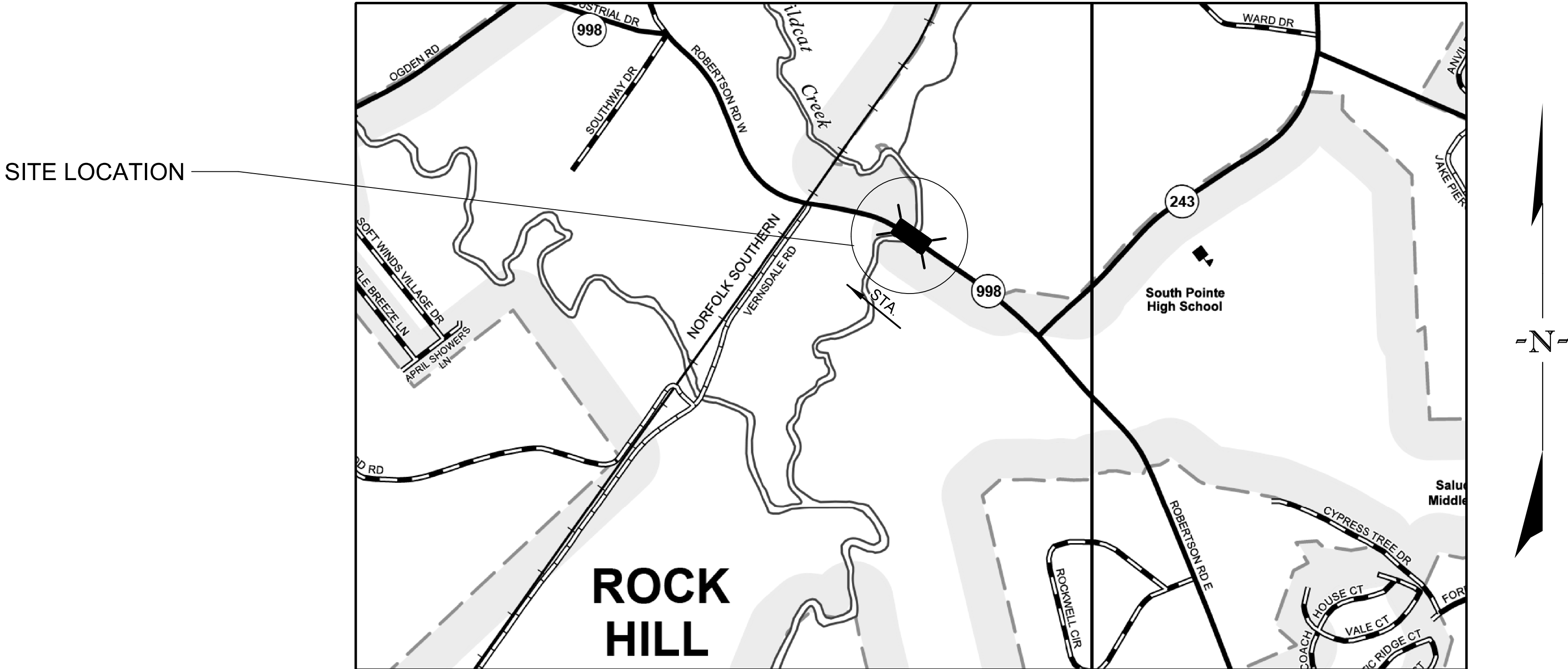


- INDEX OF SHEETS
- 1. TITLE SHEET
 - 2. BRIDGE PLAN AND PROFILE
 - 3. BRIDGE TYPICAL SECTION



PROPOSED PLANS
FOR
YORK COUNTY
PROJECT ID P041172
STATE ROUTE S-46-998 (ROBERTSON RD)
REPLACE BRIDGE OVER WILDCAT CREEK



LAYOUT

3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

ASSET ID NOT ASSIGNED

TRAFFIC DATA			
2025	ADT	2,000	V.P.D.
2045*	ADT	3,000*	V.P.D.
TRUCKS 9 %			
*DESIGN TRAFFIC DATA			

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.027	MILES
NET LENGTH OF PROJECT	0.027	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.027	MILES

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

CONSULTING ENGINEERING FIRM

HNTB
HNTB CORPORATION
SC License No. 265
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

ENGINEER OF RECORD

**CONCEPTUAL
PLANS
NOT FOR
CONSTRUCTION**

FOR CONSTRUCTION : _____ DATE _____

REVIEWED	DR.	NEW	BY	CHK	DATE

CADD FILE INFORMATION 4:03:44 PM
PLOTTED DATE: 7/5/2023
FILE NAME: ...Prp_001_S-46-998_P041172.ts.dgn

CADD FILE INFORMATION I0316 PM
PLOTTED DATE: 7/10/2023
FILE NAME: ...\\Prp-002-S-46-998_P041172.bp.dgn

34+00

35+00

36+00

37+00

38+00

BRIDGE PLANS ID	SHEET NO.
P041172	2

NOTES:

- (A) PROPOSED PROFILE SET SO THAT THE LOW CHORD SATISFIES THE HYDRAULIC REQUIREMENTS, SET FORTH BY THE RFP.
- (B) INCLUDES 1'-0" MASH BARRIER PARAPET AND 1" SLAB EXTENSION.
- (C) REMOVE AND DISPOSE OF EXISTING 27'-6" x 90'-0" 6-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

F - DENOTES FIXED BEARING

X - DENOTES EXPANSION BEARING

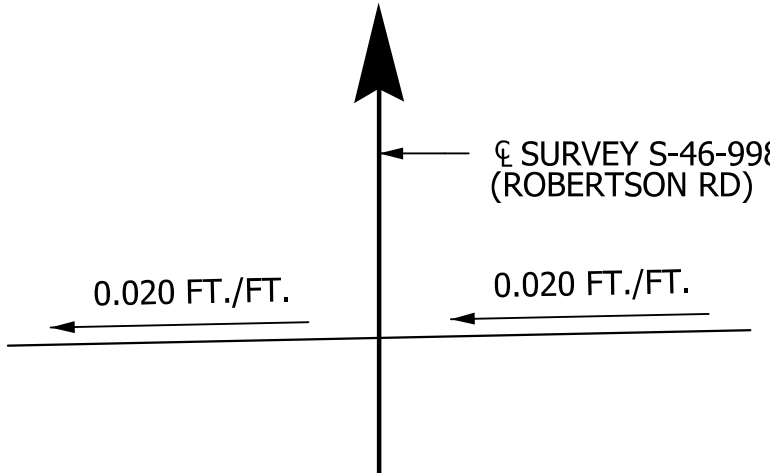
 = EXCAVATE HATCHED AREA

CONTROL POINTS

CP 4
ELEVATION = 524.99'
N 1112068.21 E 1979171.85
8" NAIL

CP 5
ELEVATION = 534.41'
N 1112299.35 E 1978526.09
8" NAIL

CP 3
ELEVATION = 536.90'
N 1111786.79 E 1979579.92
8" NAIL



TYPICAL THROUGHOUT BRIDGE
SUPERELEVATION SKETCH

VERTICAL CURVE DATA

PVI = 33+50.00 PVI = 38+75.00
ELEV. 530.18 ELEV. 526.97
V.C. = 200' V.C. = 150'

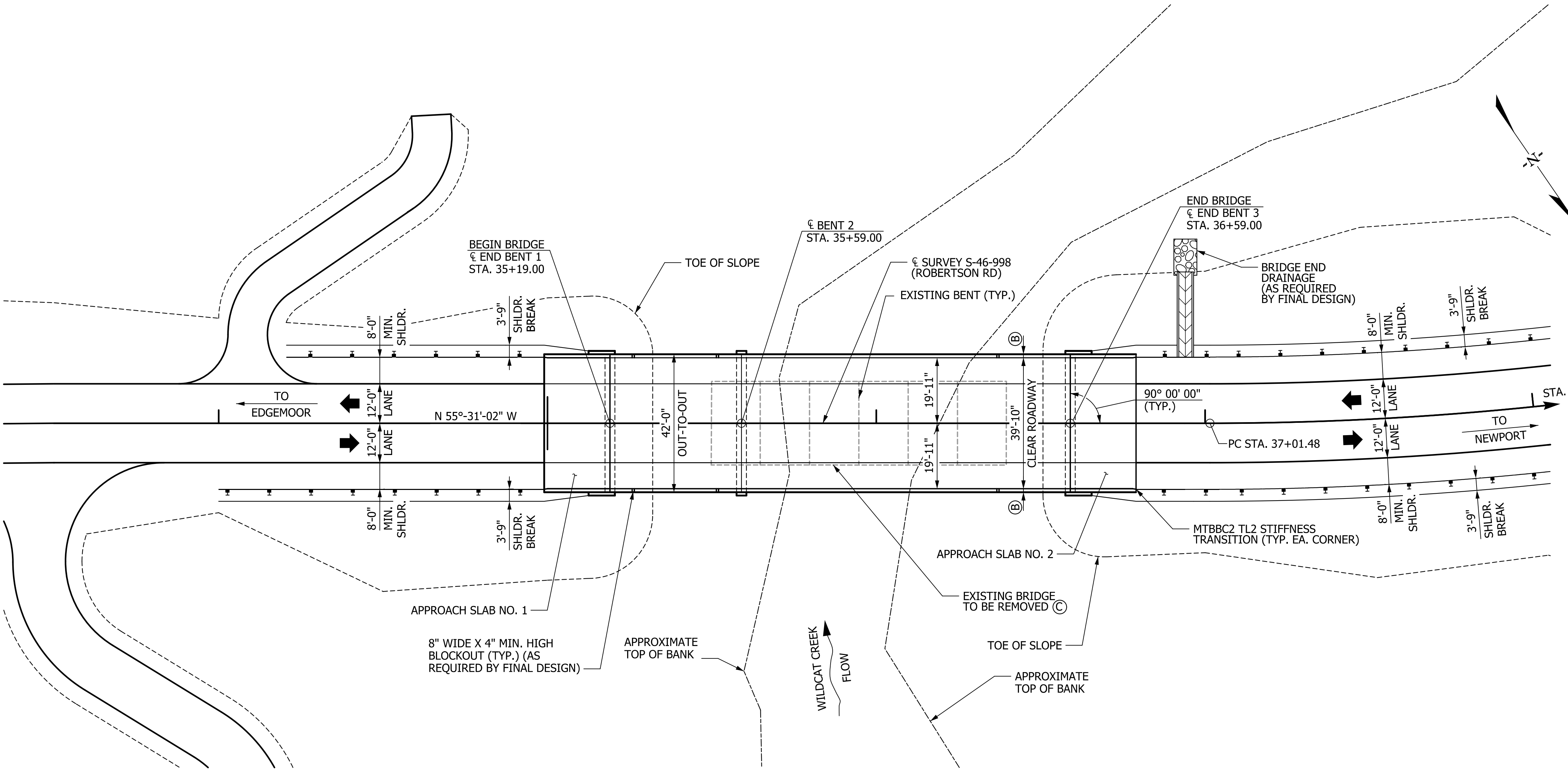
-3.73% -0.61% +1.48%

HYDROLOGY DATA

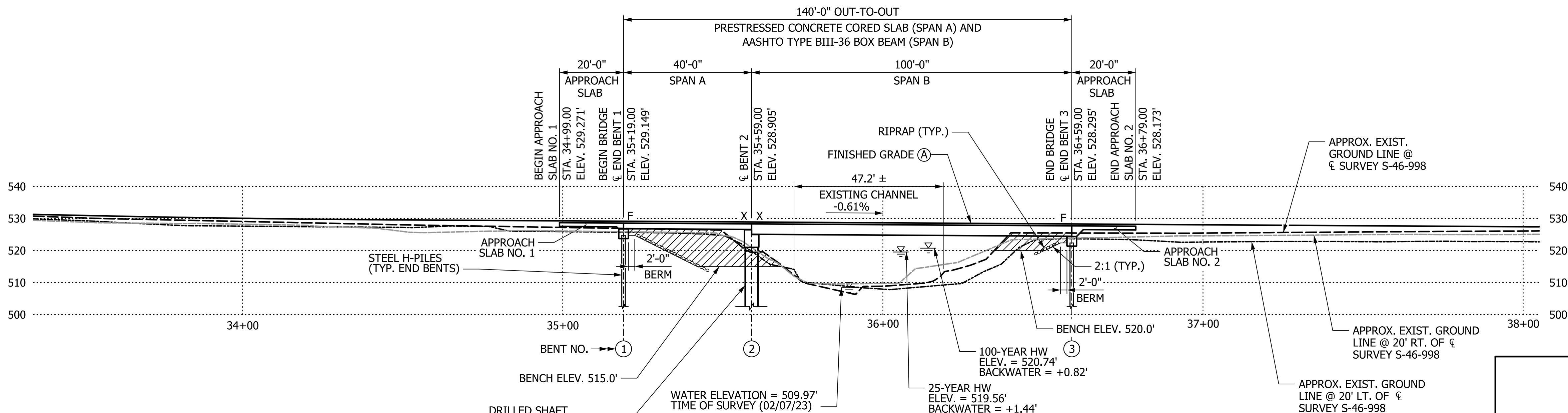
D.A. = 29.5 SQ. MILES
Q₂₅ = 3,930 CFS
VELOCITY₂₅ = 6.4 FPS
AREA FURNISHED UNDER₂₅ = 729.7 SQ. FT.
Q₁₀₀ = 5,590 CFS
VELOCITY₁₀₀ = 7.2 FPS
AREA FURNISHED UNDER₁₀₀ = 825.6 SQ. FT.

OVERTOPPING FLOOD

Q = 11,900 CFS
PROBABILITY < 0.2%



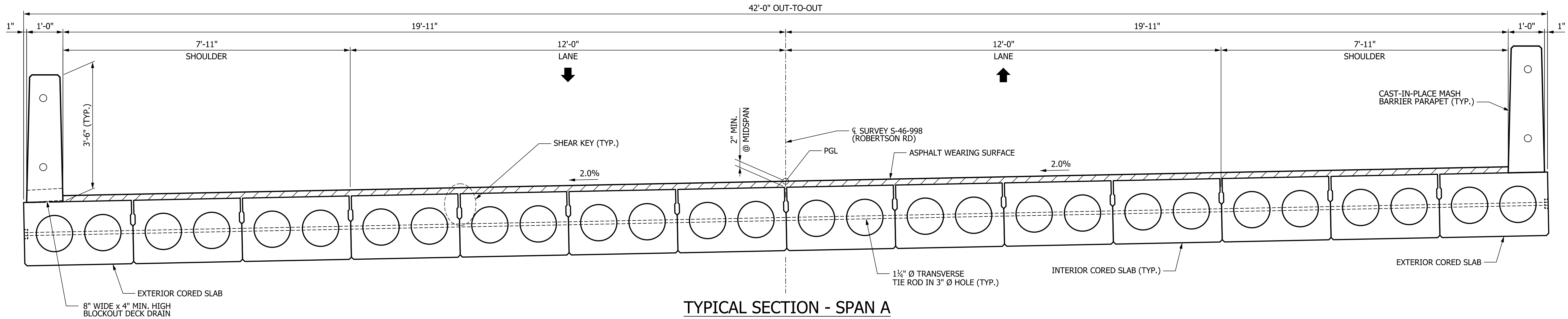
PLAN



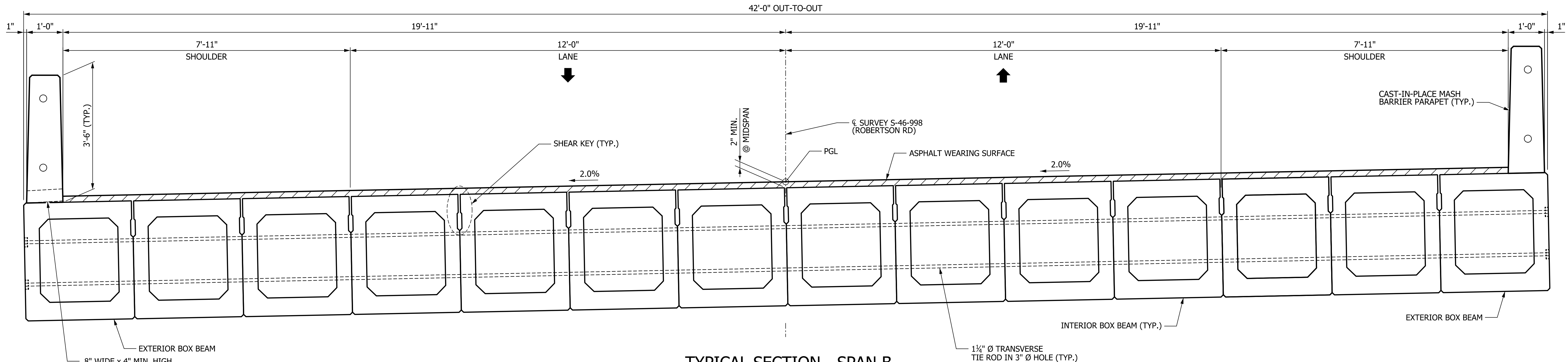
SECTION ALONG SURVEY & S-46-998

**NOT FOR
CONSTRUCTION**

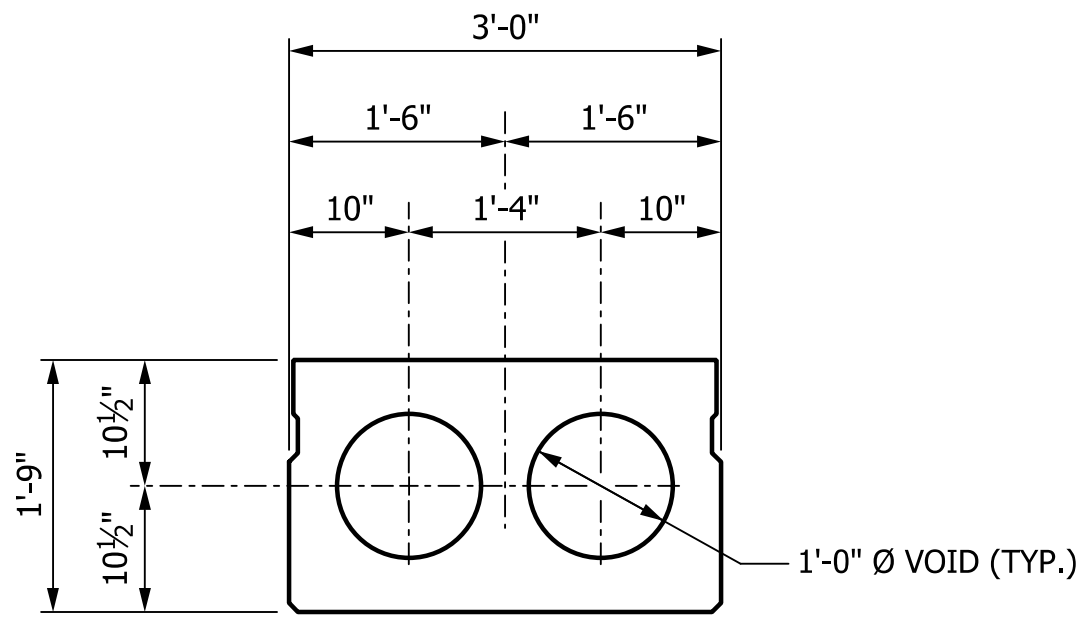
CONCEPTUAL PLANS				HNTB HNTB CORPORATION SC License No. 265 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609			
REV.				SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION			
REV.				BRIDGE PLAN AND PROFILE			
REV.				S-46-998 (ROBERTSON RD) BRIDGE REPLACEMENT OVER WILDCAT CREEK			
REVIEWED				COUNTY YORK ROUTE S-46-998			
QUAN.							
DR.	MEW	BJA	6/23				
DES.							
BY	CHK.	DATE					



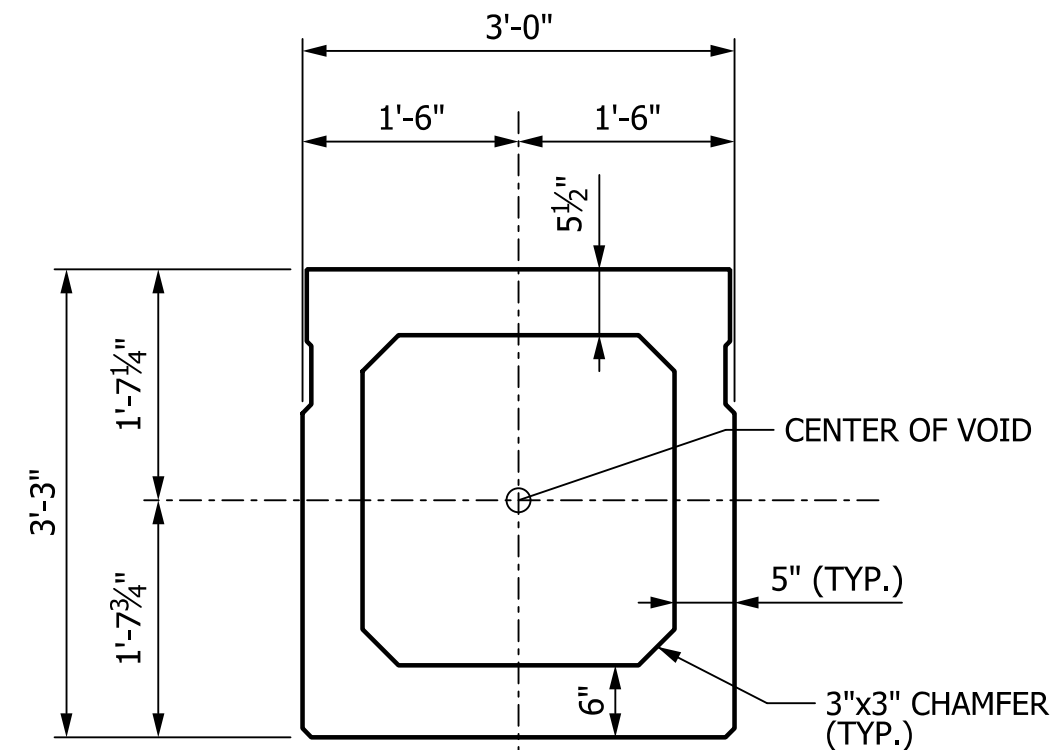
TYPICAL SECTION - SPAN A
(LOOKING IN DIRECTION OF STATIONING)



TYPICAL SECTION - SPAN B
(LOOKING IN DIRECTION OF STATIONING)



INTERIOR CORED SLAB SECTION - SPAN A



INTERIOR BOX BEAM SECTION - SPAN B

CONCEPTUAL PLANS		HNTB HNTB CORPORATION SC License No. 265 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609			
		SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION			
		BRIDGE TYPICAL SECTION			
		S-46-998 (ROBERTSON RD) BRIDGE REPLACEMENT OVER WILDCAT CREEK			
NOT FOR CONSTRUCTION		QUAN.			
		DR.	MEW	BJA	6/23
		DES.			
		BY	CHK.	DATE	
		COUNTY	YORK		ROUTE S-46-998