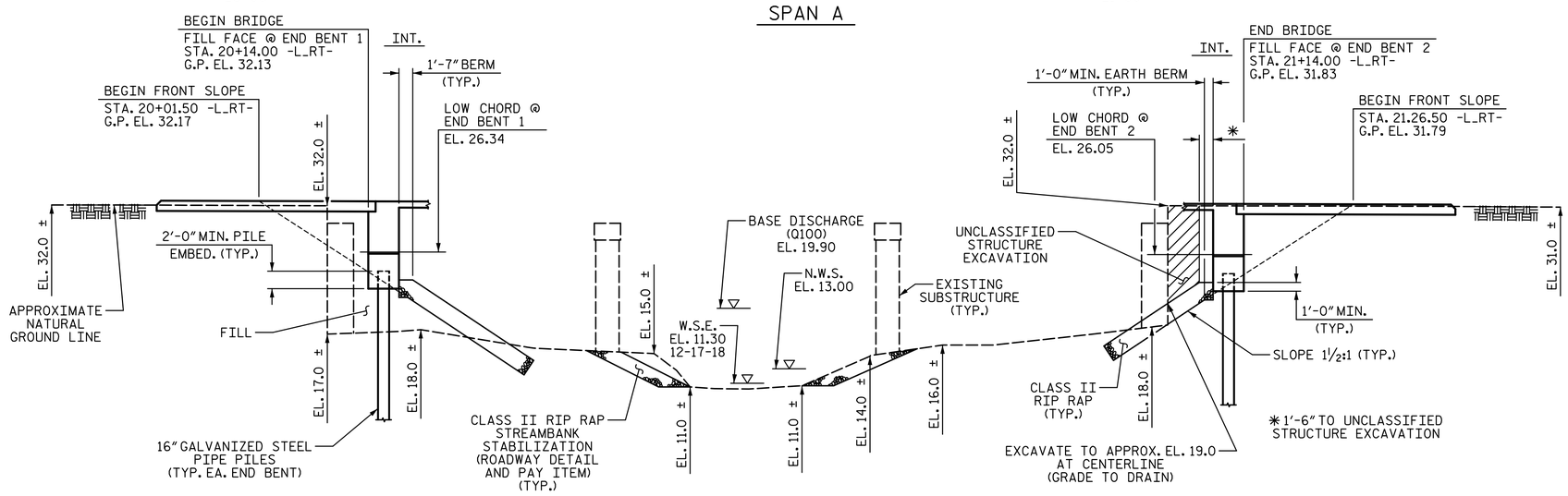
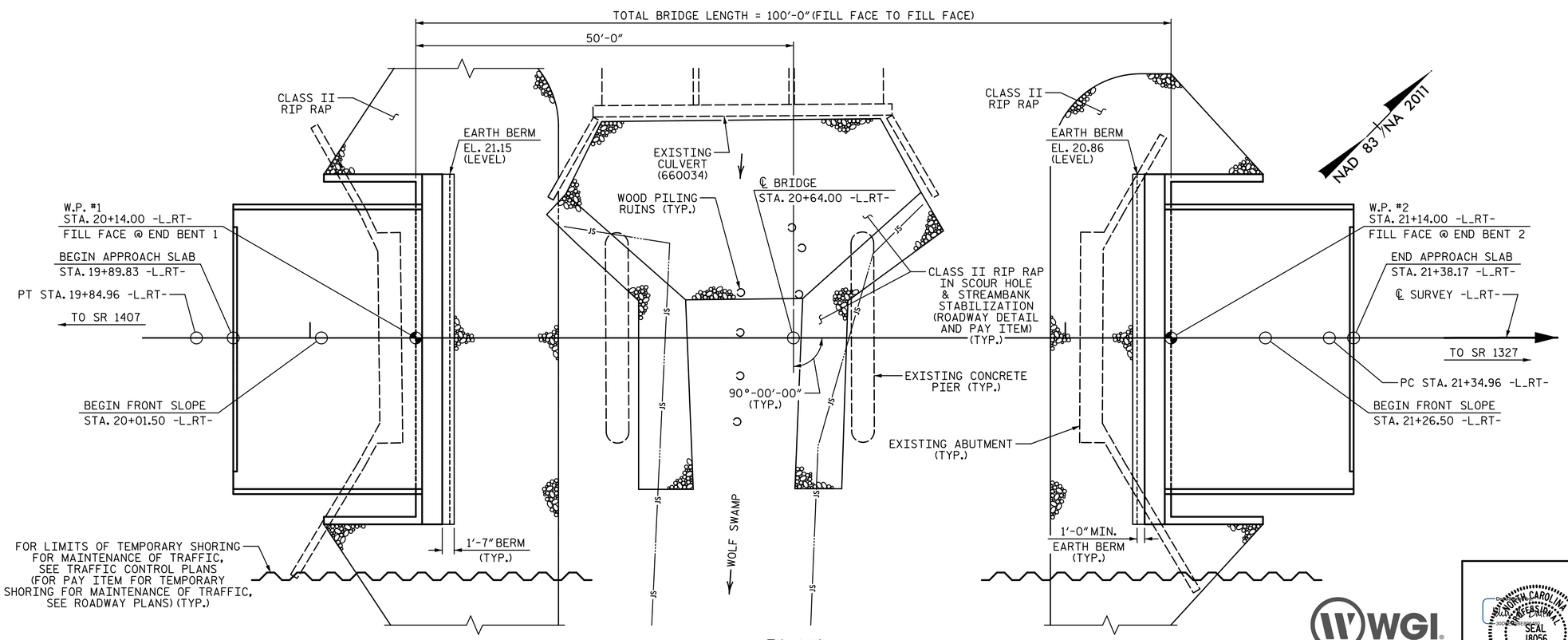
DocuSign Envelope ID: 814633A5-9135-4BA0-A1BD-E19BA1DD34D6

9/14/2022 8:05:52 AM P:\Raleigh\Projects\2018\Division 3 (SEA)\B-5652 (Onslow 33 US17 NBL over Wolf Swamp)\Structures\Drawings\Final\401_B5652_SMU_GD_660033.dgn

SPAN A



SECTION ALONG ℄ SURVEY -L_RT-



PLAN

(PILES NOT SHOWN IN PLAN VIEW)

(+)0.8375% △ (-)0.3042%

PVI STA. 19+10.00
EL. = 32.45
VC = 190'

GRADE DATA -L_RT-

HYDRAULIC DATA:

DESIGN DISCHARGE	= 1403 CFS
FREQUENCY OF DESIGN FLOOD	= 50 YEAR
DESIGN HIGH WATER ELEVATION	= 19.3
DRAINAGE AREA	= 5.26 SQ. MI.
BASE DISCHARGE (Q 100)	= 1849 CFS
BASE HIGH WATER ELEVATION	= 19.9

OVERTOPPING FLOOD DATA:

OVERTOPPING DISCHARGE	= >3280 CFS
FREQUENCY OF OVERTOPPING FLOOD	= >500 YEAR
OVERTOPPING FLOOD ELEVATION	= 30.6 ✱✱

✱✱ OVERTOPPING OCCURS AT CENTERLINE AT STA. 23+15.00 -L_RT-

HORIZONTAL CURVE DATA

PI STA. 16+30.02 -L_RT-
Δ = 2°-08'-27.3" (LT.)
D = 0°-18'-05.6"
L = 709.96'
T = 355.02'
R = 19000.00'

PI STA. 22+54.50 -L_RT-
Δ = 1°-07'-55.5" (LT.)
D = 0°-28'-24.7"
L = 239.08'
T = 119.54'
R = 12100.00'

I HEREBY CERTIFY THESE PLANS
ARE THE AS-BUILT PLANS

PROJECT NO. B-5652
ONSLOW COUNTY
STATION: 20+64.00 -L_RT-

SHEET 1 OF 4 REPLACES BRIDGE #660033

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON US 17 NB
OVER WOLF SWAMP
BETWEEN SR 1407 AND SR 1327

WGI
5640 Dillard Drive, Suite 200
Cary, NC 27518
LICENSURE NO. C-4434

NORTH CAROLINA PROFESSIONAL SEAL 18056 ENGINEER JOHN A. BATTS
9/14/2022 | 5:22 AM PDT

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

SHEET NO. S-2
TOTAL SHEETS 26

DRAWN BY:	T. BANKOVICH	DATE:	5-22
CHECKED BY:	J.A. BATTS	DATE:	5-22
DESIGN ENGINEER OF RECORD:	J.A. BATTS	DATE:	5-22