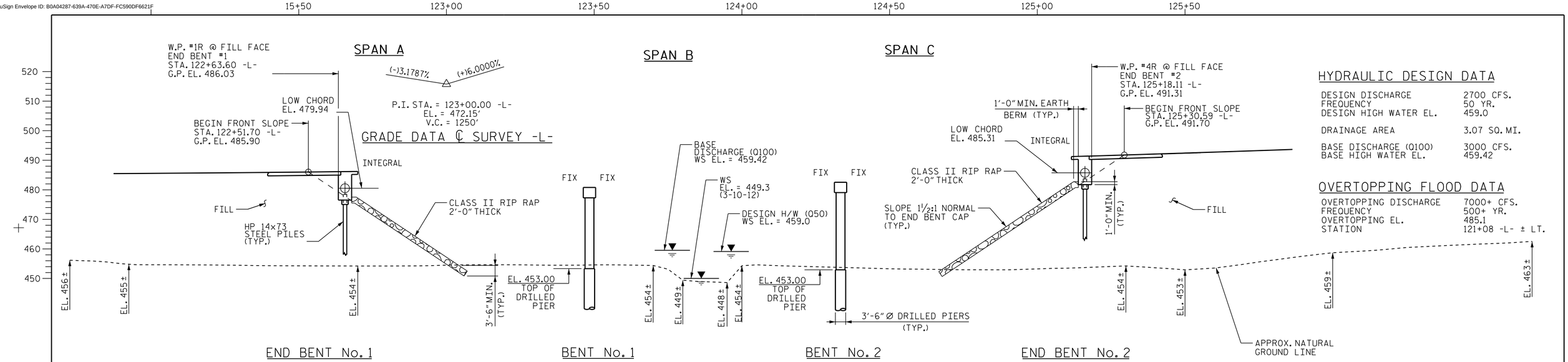
DocuSign Envelope ID: B0A04287-639A-470E-A7DF-FC590DF6621F



SECTION ALONG GRADE LINE -EBL-

HYDRAULIC DESIGN DATA

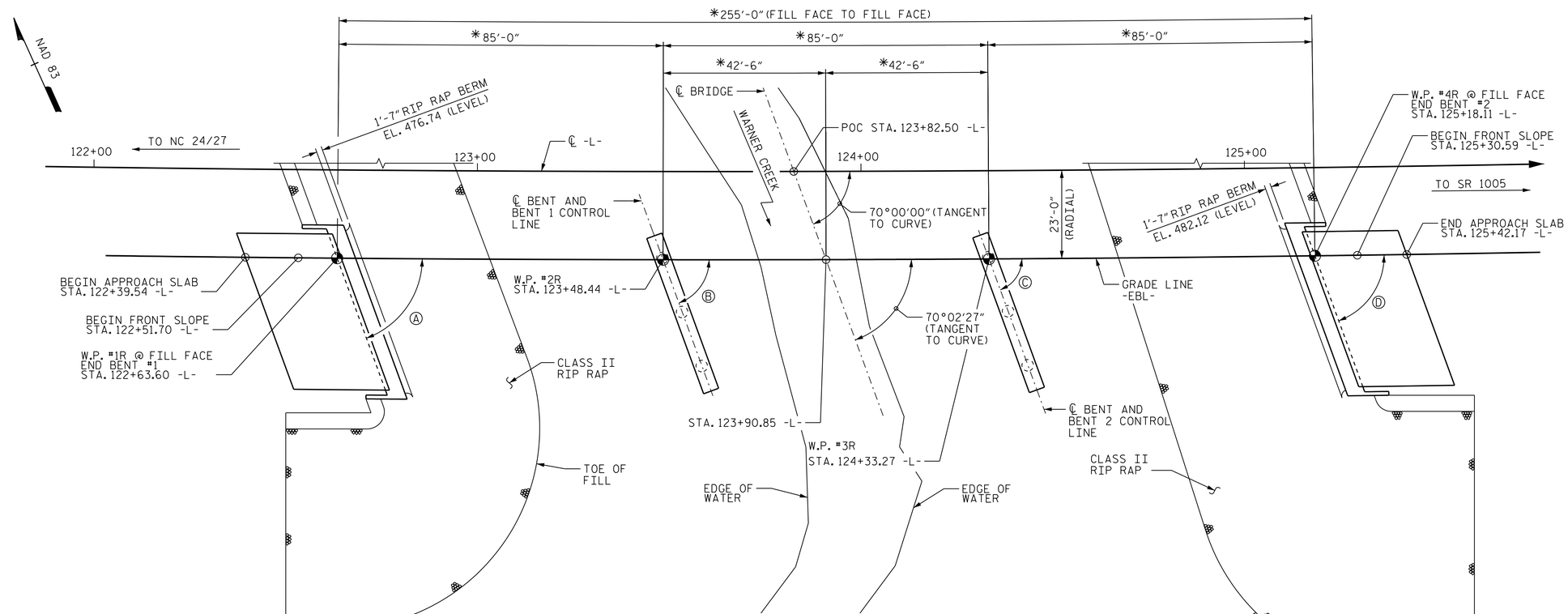
DESIGN DISCHARGE	2700 CFS.
FREQUENCY	50 YR.
DESIGN HIGH WATER EL.	459.0
DRAINAGE AREA	3.07 SQ. MI.
BASE DISCHARGE (Q100)	3000 CFS.
BASE HIGH WATER EL.	459.42

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	7000+ CFS.
FREQUENCY	500+ YR.
OVERTOPPING EL.	485.1
STATION	121+08 -L- ± LT.

HORIZONTAL CURVE DATA -L-

PI = 121+77.84
△ = 14°09'16.6" (LT.)
D = 0°29'15.4"
L = 2,902.77'
T = 1,458.81'
R = 11,750.00'



PLAN ALONG EBL

PILES NOT SHOWN IN PLAN VIEW

*DIMENSION ALONG GRADE LINE -EBL-

Ⓐ 69°22'46" TANGENT TO CURVE
Ⓑ 69°47'35" TANGENT TO CURVE
Ⓒ 70°12'25" TANGENT TO CURVE
Ⓓ 70°37'14" TANGENT TO CURVE

BRIDGE LAYOUT NOTES:

BENTS AND END BENTS ARE PARALLEL.
GIRDERS ARE PARALLEL TO THE LONG CHORD.
LONG CHORD TO BENT ANGLE IS 70°00'00".
BENTS ARE NOT PARALLEL TO THE ℄ BRIDGE.

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PROJECT NO. R-0623
MONTGOMERY COUNTY
STATION: 123+82.50 -L-

SHEET 1 OF 4 BRIDGE NO. 265

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON NC 24/27 BYPASS WBL
OVER WARNER CREEK
BETWEEN NC 24/27 AND SR 1005

(EBL)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-42
1			3			TOTAL SHEETS
2			4			82

STR. #2

Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

DRAWN BY : J. L. HENNEKES DATE : 02-24-14
CHECKED BY : J. T. KELVINGTON DATE : 03-04-14
DESIGN ENGINEER OF RECORD: J. T. KELVINGTON DATE : 03-11-14

NORTH CAROLINA PROFESSIONAL SEAL 13406 ENGINEER JOSEPH T. KELVINGTON
DocuSigned by: Joseph T. Kelvington 847C9D37807774AF...
8/18/2014

U:\Structures\Warner Creek\Drawing\EBL - Bridge 265\Drawing\Final\R-0623_SD_GD_1.dgn 8/13/2014 1:03:14 PM jhennekes