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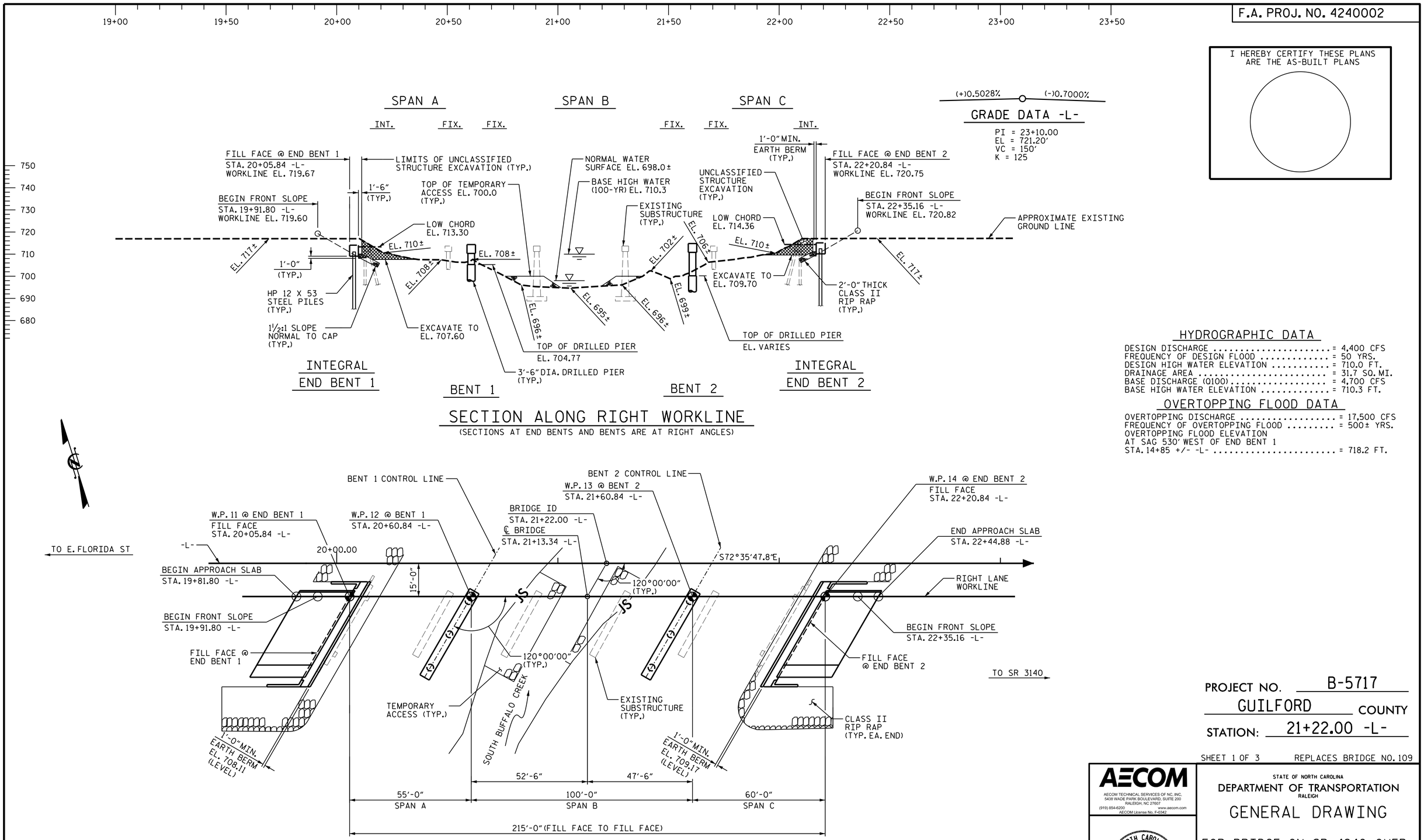
F.A. PROJ. NO. 4240002

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS



SECTION ALONG RIGHT WORKLINE

(SECTIONS AT END BENTS AND BENTS ARE AT RIGHT ANGLES)

PLAN

(DRILLED PIERS AND PILES NOT SHOWN FOR CLARITY)

HYDROGRAPHIC DATA

DESIGN DISCHARGE ..... = 4,400 CFS
FREQUENCY OF DESIGN FLOOD ..... = 50 YRS.
DESIGN HIGH WATER ELEVATION ..... = 710.0 FT.
DRAINAGE AREA ..... = 31.7 SQ. MI.
BASE DISCHARGE (Q100) ..... = 4,700 CFS
BASE HIGH WATER ELEVATION ..... = 710.3 FT.

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE ..... = 17,500 CFS
FREQUENCY OF OVERTOPPING FLOOD ..... = 500± YRS.
OVERTOPPING FLOOD ELEVATION
AT SAG 530' WEST OF END BENT 1
STA. 14+85 +/- -L- ..... = 718.2 FT.

PROJECT NO. B-5717
GUILFORD COUNTY
STATION: 21+22.00 -L-

SHEET 1 OF 3 REPLACES BRIDGE NO. 109

AECOM
AECOM TECHNICAL SERVICES OF NC, INC.
5438 WADE PARK BOULEVARD, SUITE 200
RALEIGH, NC 27607
(919) 854-6200 www.aecom.com
AECOM License No. F-0342

NORTH CAROLINA PROFESSIONAL SEAL 041543 ENGINEER GREGORY R. COLS
Docusigned by: 18B0FFCC2C7C4...
4/8/2022

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON SR 4240 OVER S. BUFFALO CREEK BETWEEN E. FLORIDA ST. AND SR 3140
(RIGHT LANE)

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S1-01
1			3					TOTAL SHEETS
2			4					38

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY :	M. L. CATER	DATE :	06/2021
CHECKED BY :	G. R. COLS	DATE :	08/2021
DESIGNED BY :	G.L. HAMILTON	DATE :	03/2021
DESIGN CHECKED BY :	D.R. DRUM	DATE :	03/2021

DATE: 3/31/2022
TIME: 3:09:23 PM

USER: dpridgeDrum
DGN: pw:\\aecom-na-pw.bentley.com:AECOM_DSS_NA_2020:Documents\60592827-NCDOT SMU B-5717\900-CAD 60\900_CADVTO_NCDOT_TIP\Structures\04 Drawings\40_00_B-5717_SMU_GD_S1-01_40001Dsgn