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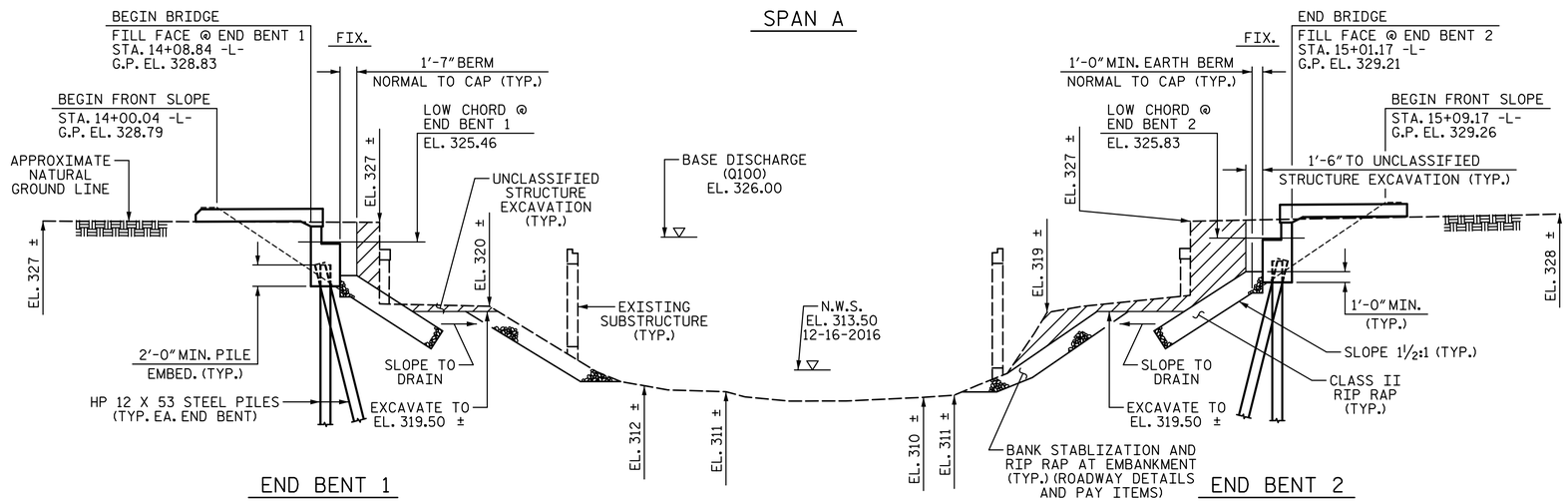
4/11/2018 12:55:30 PM G:\Projects\2016\Division 5 (Mott Macdonald)\B-5682 Granville #129 (105 33BBU 2BMR)\Structures\Drawings\Final\401_B5682_SMU_GD.dgn

TIP:B-5682

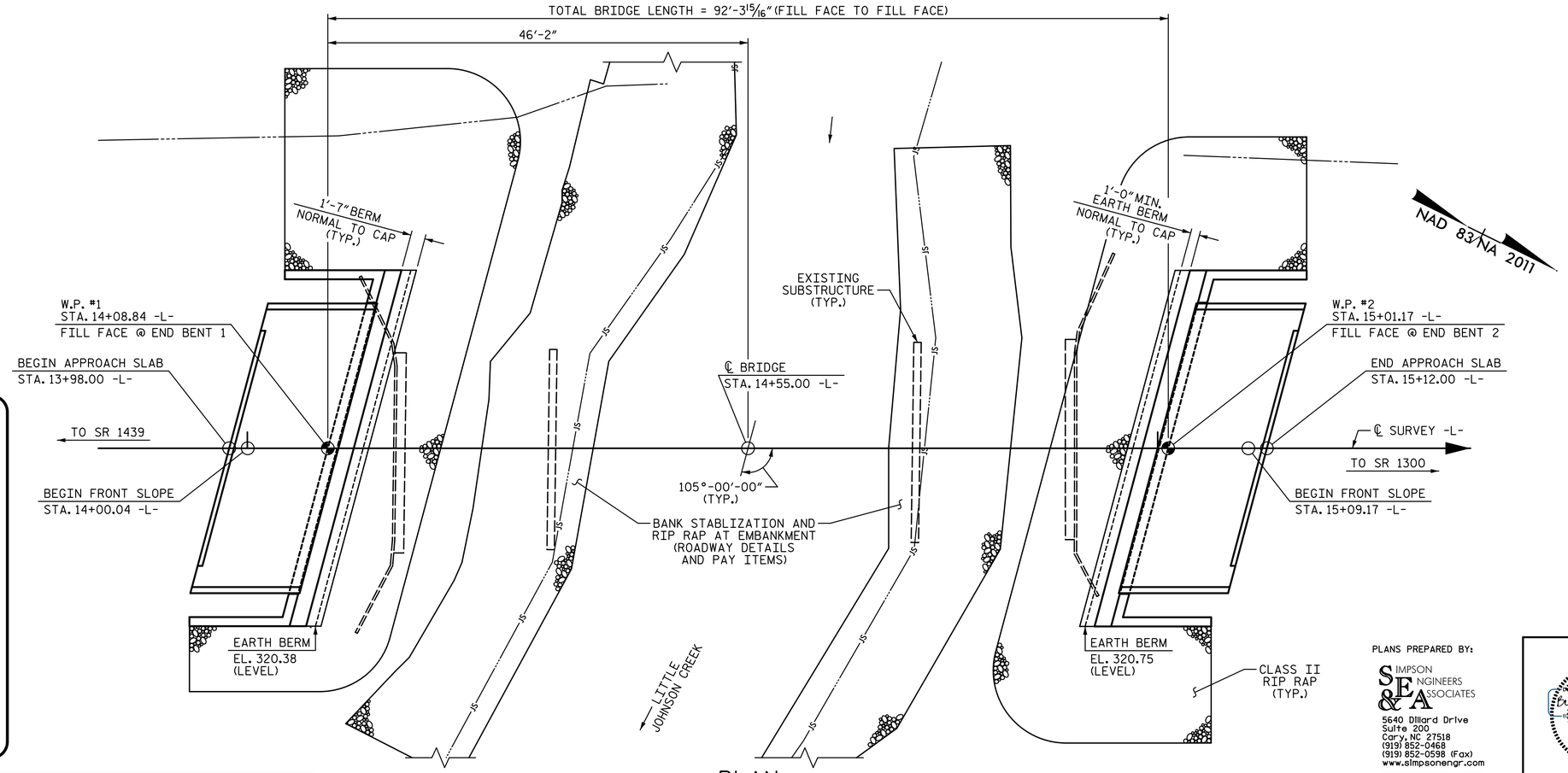
SPAN A



SECTION ALONG ℄ SURVEY -L-

(SECTIONS @ END BENTS ARE @ RIGHT ANGLES)

TOTAL BRIDGE LENGTH = 92'-3 15/16" (FILL FACE TO FILL FACE)



PLAN

(PILES NOT SHOWN IN PLAN VIEW)

(-)3.6900% (+)0.4154%

PVI STA. 12+00.00
EL. = 327.96
VC = 200'

(+)0.4154% (+)7.3000%

PVI STA. 15+90.00
EL. = 329.58
VC = 180'

GRADE DATA -L-

HYDRAULIC DATA:

DESIGN DISCHARGE	= 2900 CFS
FREQUENCY OF DESIGN FLOOD	= 25 YEAR
DESIGN HIGH WATER ELEVATION	= 324.6
DRAINAGE AREA	= 16.6 SQ. MI.
BASE DISCHARGE (Q 100)	= 4385 CFS
BASE HIGH WATER ELEVATION	= 326.00

OVERTOPPING FLOOD DATA:

OVERTOPPING DISCHARGE	= 7000
FREQUENCY OF OVERTOPPING FLOOD	= 500+ YEAR
OVERTOPPING FLOOD ELEVATION	= 328.30 ✱✱

✱✱ OVERTOPPING OCCURS AT ROADWAY SAG AT STA. 12+79.80 -L- AT ROADWAY CENTERLINE

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PROJECT NO. B-5682
GRANVILLE COUNTY
STATION: 14+55.00 -L-

SHEET 1 OF 2 REPLACES BRIDGE #129

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON SR 1400
(GRASSY CREEK VIRGILINA RD)
OVER LITTLE JOHNSON CREEK
BETWEEN SR 1439 AND SR 1300
30'-6" CLEAR ROADWAY - 105° SKEW

PLANS PREPARED BY:

SIMPSON ENGINEERS & ASSOCIATES
5640 Dillard Drive
Suite 200
Cary, NC 27518
(919) 852-0468
(919) 852-0598 (Fax)
www.simpsonengr.com
LICENSURE NO. C-2521

NORTH CAROLINA PROFESSIONAL SEAL 11268 ENGINEER BETSY S. COX
4/11/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-1
1			3					TOTAL SHEETS
2			4					19

DRAWN BY:	S.D. COOPER	DATE:	4-18
CHECKED BY:	B.S. COX	DATE:	4-18
DESIGN ENGINEER OF RECORD:	B.S. COX	DATE:	4-18