PLANS PREPARED BY :
PARSONS
RALEIGH, NORTH CAROLINA, (919) 854-1345
NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

SUNGATE DESIGN GROUP, P.A.
915 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243 FAX (919) 859-8268
ENG FIRM LICENSE NO. C-890

PROJECT REFERENCE NO.	SHEET NO.
B-5164	5

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 37874 ENGINEER TIMOTHY D. COLLINS
3/6/2014
DocuSigned by: Jim D. Bass, PE
ACBC0028D32A4EB...

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 009334 ENGINEER W. HENRY WELLS, JR.
3/6/2014
DocuSigned by: W. Henry Wells Jr. PE
C2845E8044E4D6...

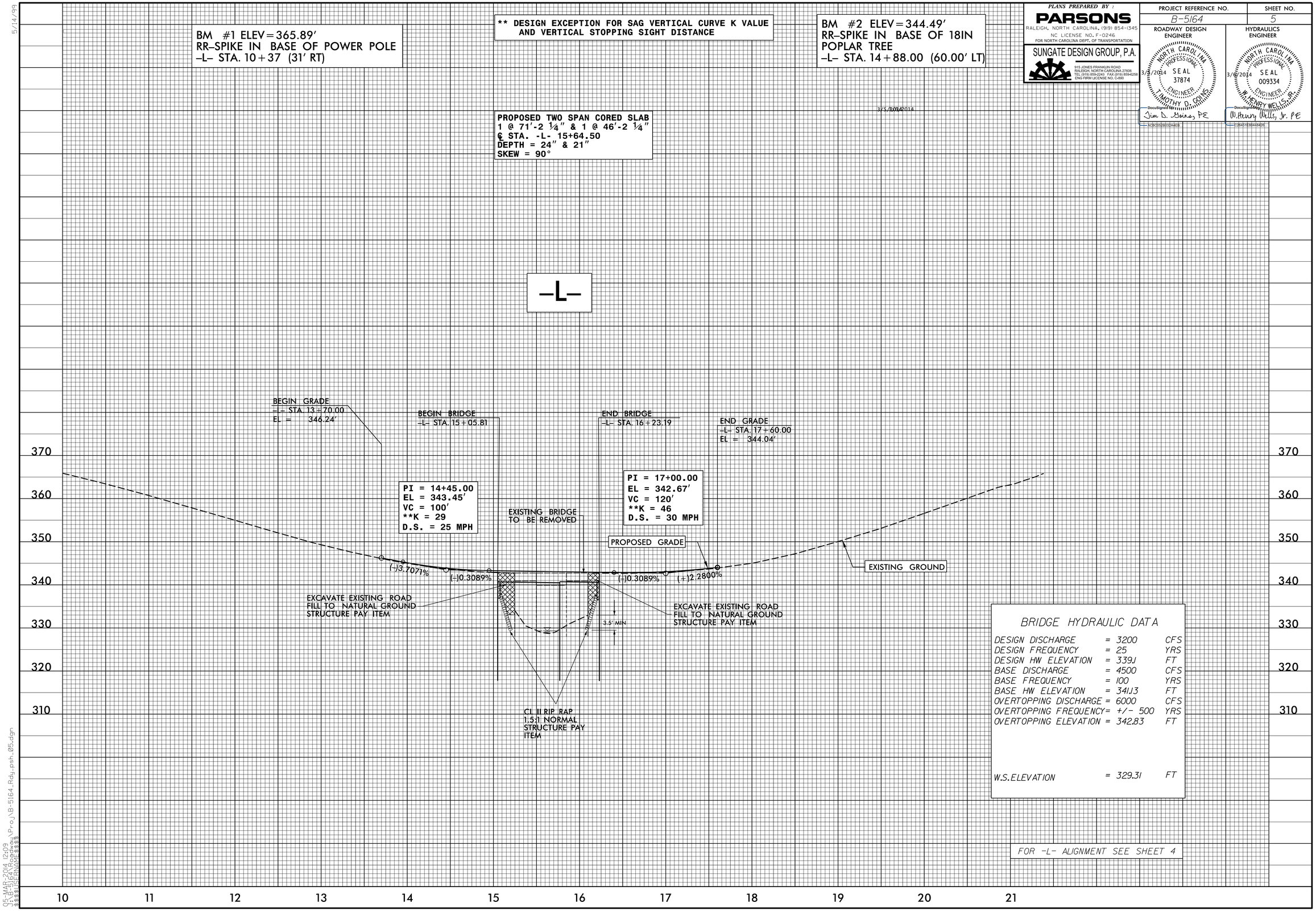
3/5/2014

BM #1 ELEV = 365.89′
RR-SPIKE IN BASE OF POWER POLE
-L- STA. 10 + 37 (31′ RT)

** DESIGN EXCEPTION FOR SAG VERTICAL CURVE K VALUE AND VERTICAL STOPPING SIGHT DISTANCE

BM #2 ELEV = 344.49′
RR-SPIKE IN BASE OF 18IN POPLAR TREE
-L- STA. 14 + 88.00 (60.00′ LT)

PROPOSED TWO SPAN CORED SLAB
1 @ 71′-2 ¼″ & 1 @ 46′-2 ¼″
℄ STA. -L- 15+64.50
DEPTH = 24″ & 21″
SKEW = 90°



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 3200	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 339.1	FT
BASE DISCHARGE	= 4500	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 341.3	FT
OVERTOPPING DISCHARGE	= 6000	CFS
OVERTOPPING FREQUENCY	= +/- 500	YRS
OVERTOPPING ELEVATION	= 342.83	FT
W.S. ELEVATION	= 329.31	FT

FOR -L- ALIGNMENT SEE SHEET 4

5/14/99
05-MAR-2014 12:09
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