DocuSign Envelope ID: 142B1244-0268-4ECC-A06B-F3E31BF7C9C8

PROJECT REFERENCE	SHEET NO.
17BP.5.R.52 – GRANVILLE 93	5

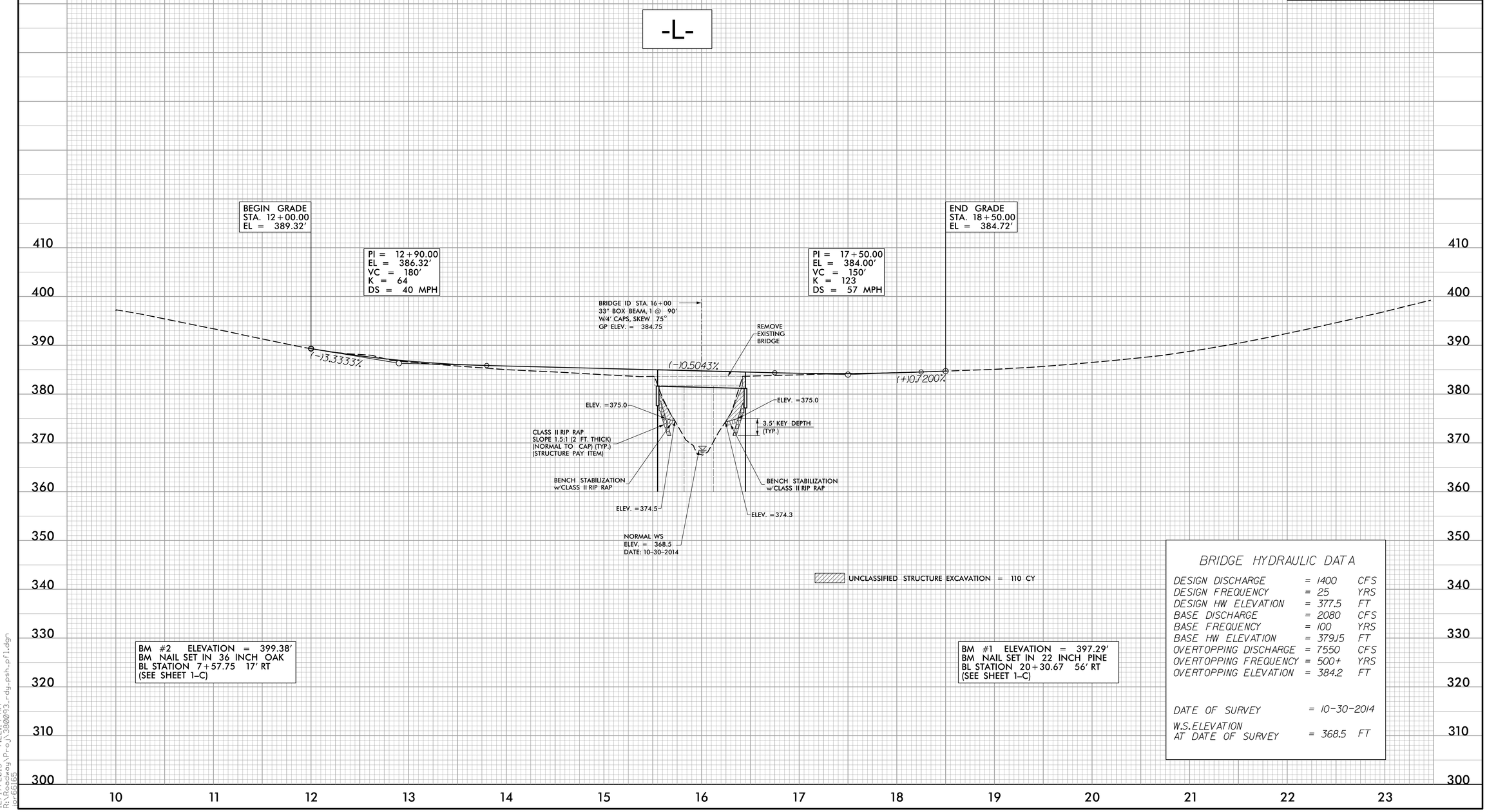
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 21102 JAMES TIMOTHY LONGSHORE
DocuSigned by: James Timothy Longshore
12/18/2015
HATCH MOTT MACDONALD E & E, LLC
LICENSE NO. F-0669

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 34364 ANTHONY J. CORMIER
DocuSigned by: Anthony J. Cormier
12/18/2015
ICA ENGINEERING
LICENSE NO. F-0258

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of: Hatch Mott MacDonald PO Box 700 Fuquay-Varina, NC 27526 www.hatchmott.com

VERTICAL SCALE 5' 0 5' 10'
HORIZONTAL SCALE 25' 0 25' 50'



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1400	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 377.5	FT
BASE DISCHARGE	= 2080	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 379.5	FT
OVERTOPPING DISCHARGE	= 7550	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 384.2	FT
DATE OF SURVEY	= 10-30-2014	
W.S.ELEVATION AT DATE OF SURVEY	= 368.5	FT

12/17/2015 7:22:19 AM
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