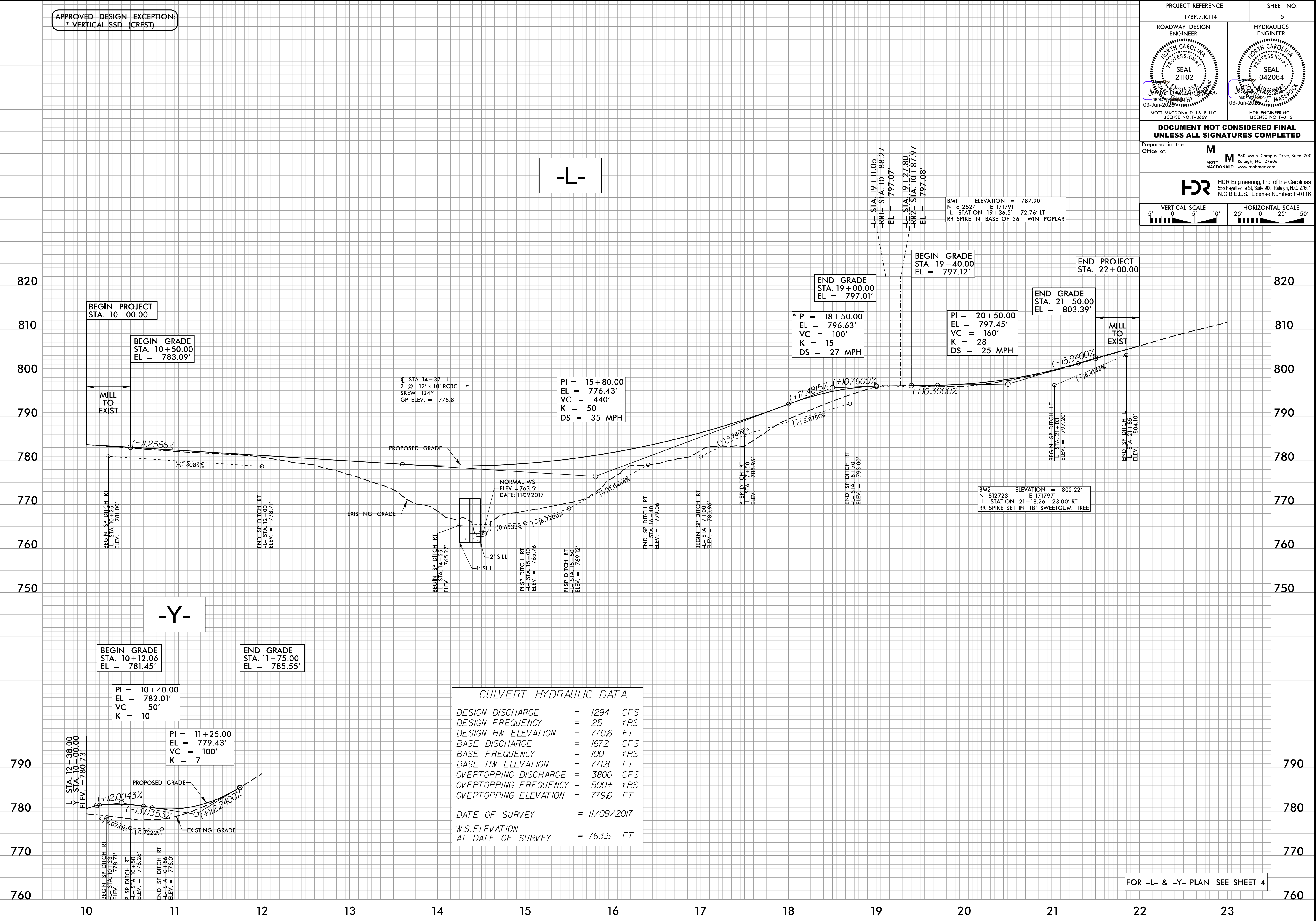


APPROVED DESIGN EXCEPTION:
+ VERTICAL SSD (CREST)

-L-

-Y-



PROJECT REFERENCE
17BP.7.R.114

SHEET NO.
5

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 21102
JAMES E. HUGHES
03-Jun-2022
MOTT MACDONALD 1 & E, LLC
LICENSE NO. F-0669

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 042084
JAMES E. HUGHES
03-Jun-2022
MOTT MACDONALD 1 & E, LLC
LICENSE NO. F-0116

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:
MOTT MACDONALD

930 Main Campus Drive, Suite 200
Raleigh, NC 27606
www.mottmac.com

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

VERTICAL SCALE
5' 0 5' 10'

HORIZONTAL SCALE
25' 0 25' 50'

CULVERT HYDRAULIC DATA		
DESIGN DISCHARGE	=	1294 CFS
DESIGN FREQUENCY	=	25 YRS
DESIGN HW ELEVATION	=	770.6 FT
BASE DISCHARGE	=	1672 CFS
BASE FREQUENCY	=	100 YRS
BASE HW ELEVATION	=	771.8 FT
OVERTOPPING DISCHARGE	=	3800 CFS
OVERTOPPING FREQUENCY	=	500+ YRS
OVERTOPPING ELEVATION	=	779.6 FT
DATE OF SURVEY	=	11/09/2017
W.S.ELEVATION AT DATE OF SURVEY	=	763.5 FT

FOR -L- & -Y- PLAN SEE SHEET 4

s:\DATE\$\$\$\$ 5/11/2026
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