



ENGINEERING "NO IMPACT" CERTIFICATION

THIS IS TO CERTIFY THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA. IT IS TO FURTHER CERTIFY THAT THE ATTACHED TECHNICAL DATA SUPPORTS THE FACT THAT I HAVE REVIEWED THE PROJECT AND I AM NOT IMPARTIAL TO THE 100-YEAR FLOOD ELEVATIONS, FLOODWAY ELEVATIONS AND FLOODWAY WIDTHS ON CHAPEL HILL RD.

DocuSigned by:
Matt West
2/3/2017

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029876 MATTHEW S. WEST

CITY OF DURHAM PUBLIC WORKS DEPARTMENT APPROVED

ENGINEERING: JAW DATE: 2/3/17
STORM WATER: MJS DATE: 2/3/17
TRANSPORTATION: DATE:

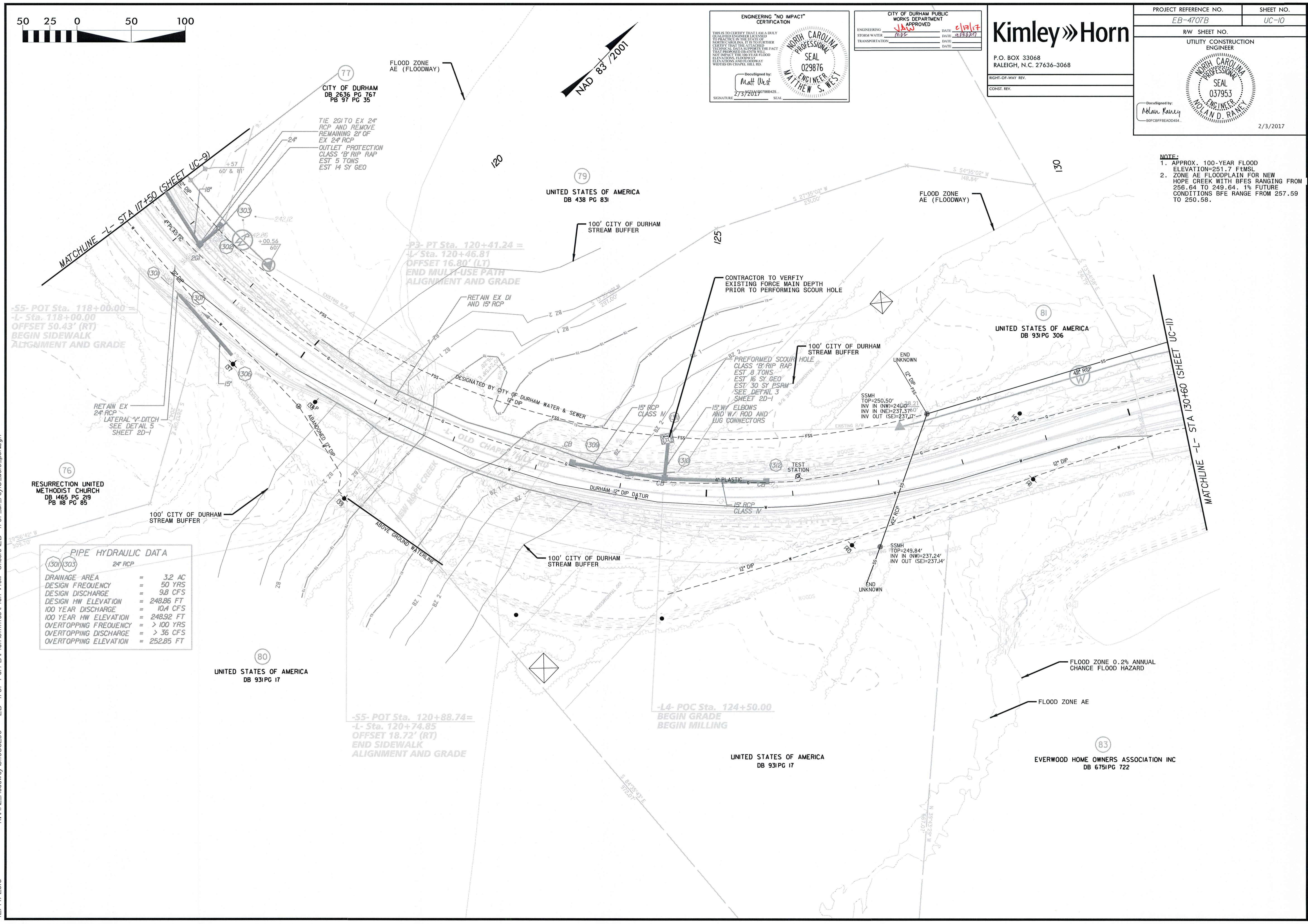
Kimley»Horn

P.O. BOX 33068
RALEIGH, N.C. 27636-3068

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO. EB-4707B	SHEET NO. UC-10
RW SHEET NO.	
UTILITY CONSTRUCTION ENGINEER	
DocuSigned by: Alan Ranney 30FCBF8EAD0454	
2/3/2017	

- NOTE:**
- APPROX. 100-YEAR FLOOD ELEVATION=251.7 FTM SL
 - ZONE AE FLOODPLAIN FOR NEW HOPE CREEK WITH BFES RANGING FROM 256.64 TO 249.64. 1% FUTURE CONDITIONS BFE RANGE FROM 257.59 TO 250.58.



PIPE HYDRAULIC DATA

130/1303	24" RCP
DRAINAGE AREA	= 3.2 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 9.8 CFS
DESIGN HW ELEVATION	= 248.86 FT
100 YEAR DISCHARGE	= 10.6 CFS
100 YEAR HW ELEVATION	= 248.92 FT
OVERTOPPING FREQUENCY	= > 100 YRS
OVERTOPPING DISCHARGE	= > 36 CFS
OVERTOPPING ELEVATION	= 252.85 FT

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