



HIGHWAY DESIGN ENGINEER  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 15759  
 STEPHEN C. BROWNE  
 12/10/04

HYDRAULICS ENGINEER  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 20737  
 WALTER H. KENNEDY  
 12/10/04

CONST. REV.  
 R/W REV.

BM\*3 CONG. MONUMENT AT INTERSECTION OF U.S. 64 AND U.S. 74  
 STAMPED GPS R-0977-7  
 1.16m RT. OF L- STA. 12+08  
 ELEV. = 488.572

BM\*2 CHISELED SQUARE AT DROP INLET  
 24.7m L.T. OF L- STA 9+77 BACK LINE  
 ELEV. = 496.133

BEGIN PROPOSED 30mm RESURFACING  
 -LC IB- STA. 10+00.000

END PROPOSED 30mm RESURFACING  
 -LC IB- STA. 11+52.100

BEGIN PROPOSED GRADE  
 -LC IB- STA. 11+90.000  
 ELEV = 489.537  
 (INCLUDES 60mm RESURF.)

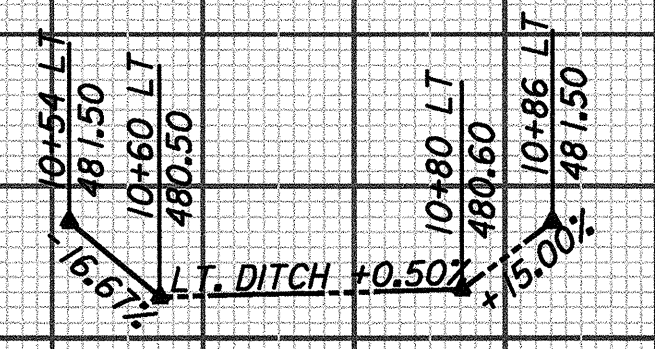
PVI = 12+07.000  
 ELEV = 489.703  
 LVC = 31  
 K = 5  
 V = 40

EXIST. 900 CSP

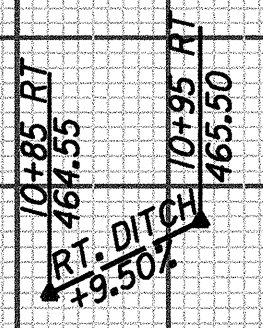
PROPOSED GRADE

-5.12 10%

EXISTING GRADE



EXIST. 450 CSP



PIPE HYDRAULIC DATA  
 DRAINAGE STRUCTURE NOS. 3 & 4

DRAINAGE AREA	=	3.3 Ha
DESIGN DISCHARGE	=	0.49 m <sup>3</sup> /s
DESIGN FREQUENCY	=	50 YRS
DESIGN HIGH WATER ELEV.	=	481.58 m
BASE DISCHARGE	=	0.56 m <sup>3</sup> /s
BASE FREQUENCY	=	100 YRS
BASE HIGH WATER ELEV.	=	481.83 m
OVERTOPPING DISCHARGE	=	1.1 m <sup>3</sup> /s
OVERTOPPING FREQUENCY	=	500 YRS
OVERTOPPING FLOOD ELEV.	=	489.5 m

-LCIB-

SEE SHEET 4 FOR -LCIB- PLAN

**LOCHNER**  
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