



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

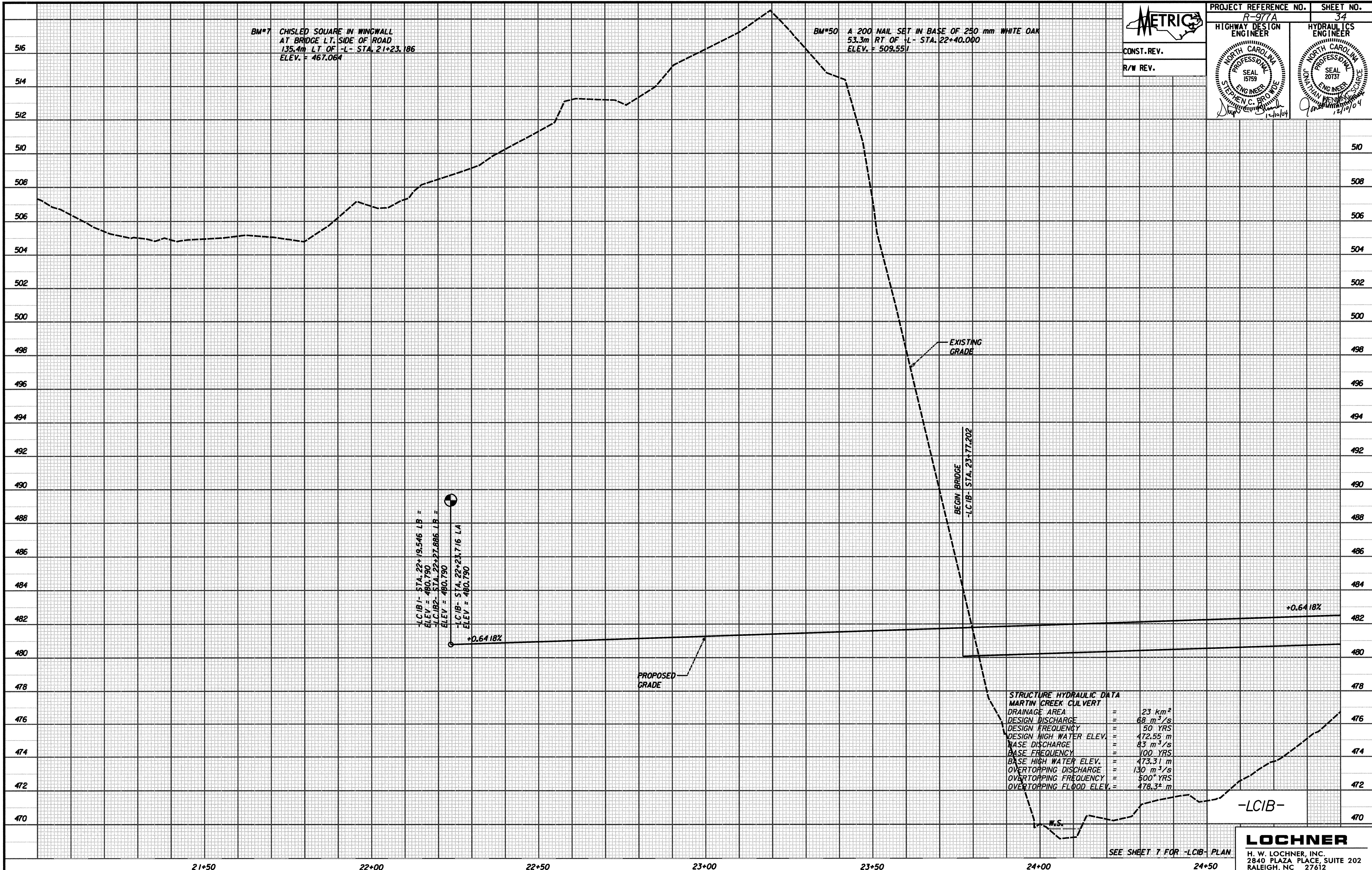
HYDRAULICS ENGINEER
 NORTH CAROLINA PROFESSIONAL SEAL 20737
 ENGINEER JOHN THOMAS WENDEL
 12/10/04

CONST. REV.
 R/W REV.

BM*7 CHISELED SQUARE IN WINGWALL
 AT BRIDGE LT. SIDE OF ROAD
 135.4m LT OF -L- STA. 21+23.186
 ELEV. = 467.064

BM*50 A 200 NAIL SET IN BASE OF 250 mm WHITE OAK
 53.3m RT OF -L- STA. 22+40.000
 ELEV. = 509.551

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 -L-CIB1- STA. 22+19.546 LB =
 ELEV = 480.790
 -L-CIB2- STA. 22+27.886 LB =
 ELEV = 480.790
 -L-CIB- STA. 22+23.716 LA
 ELEV = 480.790



EXISTING GRADE

BEGIN BRIDGE
 -L-CIB- STA. 23+71.6

PROPOSED GRADE

STRUCTURE HYDRAULIC DATA
 MARTIN CREEK CULVERT

DRAINAGE AREA	=	23 km ²
DESIGN DISCHARGE	=	88 m ³ /s
DESIGN FREQUENCY	=	50 YRS
DESIGN HIGH WATER ELEV.	=	472.55 m
BASE DISCHARGE	=	83 m ³ /s
BASE FREQUENCY	=	100 YRS
BASE HIGH WATER ELEV.	=	473.31 m
OVERTOPPING DISCHARGE	=	130 m ³ /s
OVERTOPPING FREQUENCY	=	500 ⁺ YRS
OVERTOPPING FLOOD ELEV.	=	478.3 [±] m

-L-CIB-

SEE SHEET 7 FOR -L-CIB- PLAN

LOCHNER
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