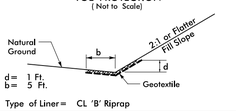
DocuSign Envelope ID: 33814C6C-D204-40B8-8400-9CFB016793A1

8/17/99

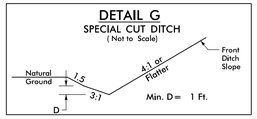
DETAIL F
TOE PROTECTION
(Not to Scale)



d = 1 Ft.
b = 5 Ft.
Type of Liner = CL 'B' Riprap

FROM STA. 32+00 TO STA. 32+38 –L– LT
FROM STA. 32+43 TO STA. 32+75 –L– LT
FROM STA. 41+00 TO STA. 42+50 –L– RT
FROM STA. 41+50 TO STA. 42+50 –L– LT

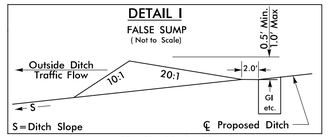
DETAIL G
SPECIAL CUT DITCH
(Not to Scale)



Min. D = 1 Ft.

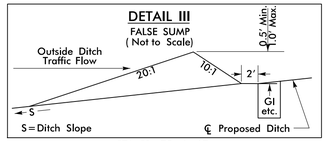
FROM STA. 40+00 TO STA. 41+34 –L– LT

DETAIL I
FALSE SUMP
(Not to Scale)



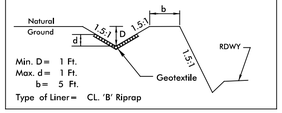
STA. 31+25 –L– RT
STA. 37+80 –L– LT

DETAIL III
FALSE SUMP
(Not to Scale)



STA. 31+75 –L– LT
STA. 33+25 –L– RT
STA. 37+85 –L– LT

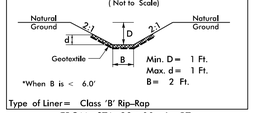
DETAIL D
BERM 'V' DITCH
(Not to Scale)



Min. D = 1 Ft.
Max. d = 1 Ft.
b = 5 Ft.
Type of Liner = CL. 'B' Riprap

FROM STA. 37+50 TO STA. 38+00 LT

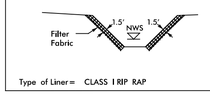
DETAIL P
STANDARD BASE DITCH
(Not to Scale)



Min. D = 1 Ft.
Max. d = 1 Ft.
B = 2 Ft.
*When B is < 6.0'
Type of Liner = Class 'B' Rip-Rap

FROM STA. 38+00 –L– RT

DETAIL S
BANK STABILIZATION
(Not to Scale)



Type of Liner = CLASS I RIP RAP

–L– STA. 31+88 RT

ICA Engineering
f/k/a Florence & Hutcheson, Inc.
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: P-0258

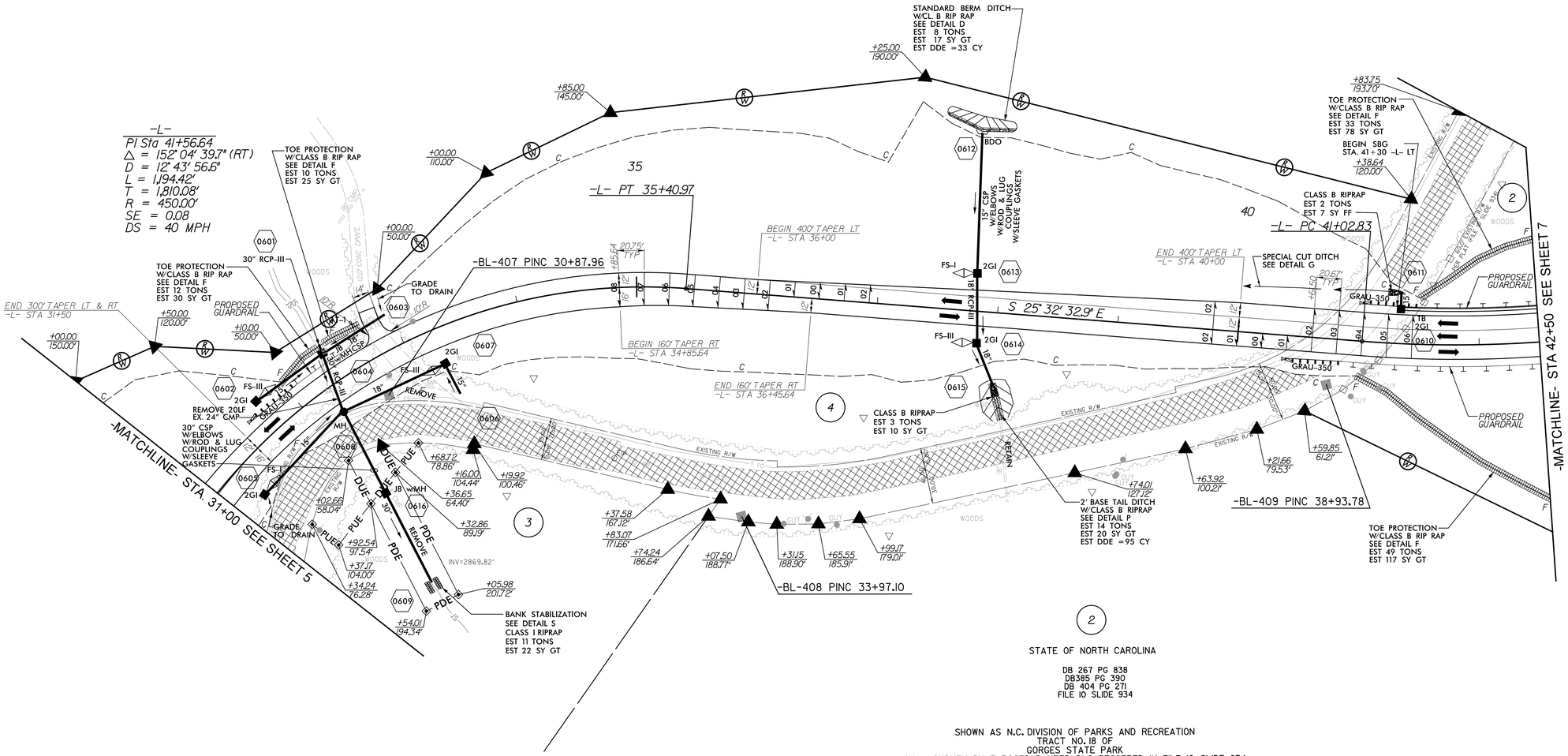
PROJECT REFERENCE NO.	SHEET NO.
R-2409C	6
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 22606 ENGINEER DAVID C. WALLER
DocuSigned by: David C. Waller 10/22/2015
89AD3F7156C5435...

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 24451 ENGINEER STACEY H. BAILEY
DocuSigned by: Stacey H. Bailey 10/23/2015
CB5696BC59E046E...

–L–
PI Sta 42+47.38
△ = 16° 27' 00.6" (LT)
D = 5° 43' 46.5"
L = 287.11'
T = 144.55'
R = 1,000.00'
SE = 0.06
DS = 40 MPH

–L–
PI Sta 41+56.64
△ = 152° 04' 39.7" (RT)
D = 12° 43' 56.6"
L = 1,194.42'
T = 1,810.08'
R = 450.00'
SE = 0.08
DS = 40 MPH



4

LBM INDUSTRIES, INC.
DB 428 PG 262
FILE 7 PG 435

2

STATE OF NORTH CAROLINA

DB 267 PG 838
DB385 PG 390
DB 404 PG 271
FILE 10 SLIDE 934

SHOWN AS N.C. DIVISION OF PARKS AND RECREATION
TRACT NO. 18 OF
GORGES STATE PARK
ON A SURVEY BY E. ROGER RAXTER, PLS RECORDED IN FILE 10, SLIDE 934
TRANSYLVANIA REGISTER OF DEEDS

FOR –L– PROFILE SEE SHEET 12

10/21/2015
H:\Projects\Proj\R2409C_Rdy_psh_06.dgn
Preliminary Plans