-L-		
PI Sta 131+55.77 (C19)	PI Sta 137+63.38 (C20)	PI Sta 140+68.39 (C21)
△ = 24° 05' 15.3" (RT)	△ = 23° 33' 09.9" (LT)	△ = 17° 24' 16.3" (RT)
D = 8° 11' 06.4"	D = 7° 38' 22.0"	D = 5° 43' 46.5"
L = 294.29'	L = 308.30'	L = 303.77'
T = 149.35'	T = 156.36'	T = 153.06'
R = 700.00'	R = 750.00'	R = 1,000.00'
e = 3.4 (MATCH EXIST.)	e = 3.8	e = 3.6
R_{OFF} = 95.20'	R_{OFF} = 106.40'	R_{OFF} = 100.80'

-Y21-
PI Sta 11+74.37
△ = 6° 13' 12.4" (LT)
D = 7° 09' 43.1"
L = 86.85'
T = 43.47'
R = 800.00'

Kimley»Horn

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

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
EB-4707B	14

RW SHEET NO.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 029876 ENGINEER MATTHEW S. WEST

DocuSigned by: Matt West AC71A1D0796B425... 2/1/2017

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 026480 ENGINEER LARRY D. ROBINSON, JR.

DocuSigned by: Larry D. Robinson CE17B2971D5643E... 1/30/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEE SHEET NO. 21 FOR -L- PROFILE
SEE SHEET NO. 25 FOR -Y20- PROFILE
SEE SHEET NO. 25 FOR -Y21- PROFILE
SEE SHEET NO. 25 FOR -Y22- PROFILE

NAD 83 /2001

-L- POC Sta.131+96.83 = -Y20- POT Sta. 10+00.00

-L- POC Sta.139+99.52 = -Y21- POT Sta. 10+00.00

POT Sta. 10+00.00

PT Sta. 133+00.71

PC Sta. 136+07.02

PRC Sta. 139+15.33

PT Sta. 142+19.09

-L- Sta.140+15.57 END WIDENING (LT) TIE TO EXISTING EDGE OF PAVEMENT

-L- Sta.140+53.02 END CURB & GUTTER AND TIE TO EXISTING DRIVEWAY RADIUS

-L- Sta.134+19.18 TIE TO EXISTING CONC. SIDEWALK

-L- Sta.131+56.86 TIE TO EXISTING CURB & GUTTER (RT)

-BL-21 -L- STA 131+59.10 (40.75 RT)

-BL-22 -L- STA 137+04.78 (20.67 RT)

-BL-23 -L- STA 141+79.19 (20.58 RT)

-Y21- POT Sta. 10+57.62
BEGIN CONSTRUCTION

PC Sta. 11+30.91

PT Sta. 12+17.76

-L- POC Sta.141+25.98 = -Y22- POT Sta. 11+73.13

BM#9
-L- STA 135+07.52
58.64' RT.
ELEV.252.46'

UNITED STATES OF AMERICA
DB 440 PG 319

THE HAYWOOD COMPANY OF THE TRIANGLE INC.
DB 2702 PG 694
PB 155 PG 133

STEPHEN E. ADAMS
SANTOS A. UMANA
DB 2817 PG 314
PB 6A PG 58

GLORIA R. ELLIOTT HEIRS
DB 183 PG 226

CHRISTINE M. ROSE
DB 994 PG 34
PB 6A PG 58

W.R. SHEPHERD HEIRS
DB 123 PG 435
PB 6A PG 58

WALLIH L. CABEZAS
DB 2716 PG 632
PB 6A PG 58

KENNETH COOK
DB 1275 PG 851
PB 6A PG 58

EDWARD GRAW
6182 PG 831

CECIL EKU MACAULLY
DB 6179 PG 629

ELI B. NICHOLS
DB 6474 PG 988

MULUALEM K. LEGESSE
DB 6108 PG 755

EVERWOOD HOME OWNERS ASSOCIATION INC
DB 6751PG 722

BOYD BOKAR, SR.
DB 6513 PG 287
PB 184 PG 288

TALBERT BUILDING SUPPLY
DB 6720 PG 84
PB 184 PG 284

DANIEL LEWIS MURDOCK
DB 6324 PG 156
PB 184 PG 284

RUTH N. KEITH
DB 1536 PG 796
PB 6A PG 58

-Y20- EVERWOOD DR
S 47°32'38.9" E

-Y21- JEAN AVE
S 55°39'13.6" E

-Y22- GRAPEVINE TRL
S 48°03'45.7" E

-L- OLD CHAPEL HILL RD
5' SIDEWALK

MATCHLINE STA 130+60 (SHEET 13)

MATCHLINE STA 142+60 (SHEET 15)

TBJB W/ MH COVER (428)

N 53° 44' 20.0" E

ADJUST TOP OF EX CB AND RETAIN EX 15" RCP

RETAIN 24" OF EXISTING CONCRETE LINED CHANNEL

48" RCP-IV OUTLET ON TO EXIST CONC. CHANNEL SEE DETAIL 12 SHEET 2D-1

REMOVE EX 30" RCP

160' LANE TAPER

200' STORAGE

100' BAY TAPER

15" RCP CLASS IV

24" RCP-IV

48" RCP CLASS IV

RESET 31 LF 48" WOODEN FENCE

RESET 100 LF 48" WOODEN FENCE

EXISTING WELL APPROX. LOCATION DO NOT DISTURB

REMOVE EX 15" RCP

CONNECT EXIST SIDEWALK TO EXIST DRIVEWAY

RETAIN EXISTING CURB & GUTTER (LT)

75' STORAGE

REMOVE AND REPLACE EX CB

RETAIN EX JB

RETAIN EX 24" RCP

RETAIN EX 15" RCP

RETAIN EX SYSTEM

RETAIN EX RISER AND 15" RCP

RETAIN EX JB ADJUST TOP IF NECESSARY

LATERAL BASE DITCH CLASS I RIP RAP EST 65 TONS EST 680 SY GEO SEE DETAIL 4/SHEET 2D-1

REMOVE EX 24" RCP AND EX CB

REPLACE EX JB

REMOVE EX 24" RCP

48" RCP CLASS IV

ADJUST TOP OF EX CB

REMOVE EXISTING CURB & GUTTER (RT)

EXIST SEPTIC CLEAN OUT APPROX.LOCATION DO NOT DISTURB

LATERAL 'V' DITCH W/ CLASS 'B' RIP RAP EST 28 TONS EST 65 SY GEO SEE DETAIL 2 SHEET 2D-1

PIPE HYDRAULIC DATA

(407) (421) 48" RCP-IV

DRAINAGE AREA	=	43.1 AC
DESIGN FREQUENCY	=	50 YRS
DESIGN DISCHARGE	=	72 CFS
DESIGN HW ELEVATION	=	249.90 FT
100 YEAR DISCHARGE	=	84 CFS
100 YEAR HW ELEVATION	=	250.29 FT
OVERTOPPING FREQUENCY	=	> 100 YRS
OVERTOPPING DISCHARGE	=	> 165 CFS
OVERTOPPING ELEVATION	=	253.95 FT

$FILE$

1/30/2017