UTILITY PLAN SHEET UC-13 CORRESPONDS WITH ROADWAY PLAN SHEET 27

HINDE ENGINEERING
License No. C-2639
7520 E. Independence Blvd., Suite 230 Charlotte, NC 28227

PROJECT REFERENCE NO.	SHEET NO.
R-0623	UC-13
DESIGNED BY: CLS	
DRAWN BY: JNA	
CHECKED BY: CLS	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040370 CLINT L. STEVENS
DocuSigned by: Clint L. Stevens 9D6F52D777EB420...
9/26/14

UTILITY CONSTRUCTION

5" MONOLITHIC CONC. ISLAND

22.5° BEND W/ WALL BLOCKING

16" VALVE

22.5° BEND

22.5° BEND

22.5° BEND

CLASS B RIP RAP EST. 2 TONS EST. 7 SY GF

CONNECT TO EXIST. AC WATER LINE WITH AC/DI TRANSITION COUPLING

1,368 LF 16" WATER LINE DIP, PC 250

ABANDON 1,359 LF 16" UTILITY PIPE TO BE REMOVED

W10

11.25° BEND

11.25° BEND

RELOCATE FIRE HYDRANT

16" X 16" X 8" TEE

16" VALVE

11.25° BEND

16" X 16" X 6" TEE

8" VALVE

22.5° BEND

8" X 8" X 6" TEE

W11

ABANDON 701 LF 8" UTILITY PIPE

2-22.5° BENDS

ABANDON 125 LF 4" UTILITY PIPE

45° BEND

FIRE HYDRANT

RELOCATE 2" WATER METER WITH NEW VAULT

45° BEND

730 LF 8" WATER LINE DIP, PC 350

RELOCATE WATER METER

22.5° BEND W/ WALL BLOCKING

22.5° BEND

161 LF 4" WATER LINE DIP, PC 350

11.25° BEND

4" VALVE

8" X 8" X 4" TEE

8" VALVE

22.5° BEND

22.5° BEND W/ WALL BLOCKING

MATCH LINE -L- STA 307+50

MATCH LINE -L- STA 320+50 SEE SHEET UC-14

NAD 83/95

-Y10-
PI Sta 17+56.56
Δ = 36° 01' 11.5" (RT)
D = 5° 43' 46.5"
L = 628.67'
T = 325.11'
R = 1,000.00'

-L-
PI Sta 312+44.67
Δ = 45° 59' 18.5" (RT)
D = 2° 17' 30.6"
L = 2,006.63'
T = 1,060.89'
R = 2,500.00'
se = 0.05

-Y10-
PI Sta 22+11.88
Δ = 11° 33' 17.6" (LT)
D = 3° 49' 11.0"
L = 302.51'
T = 151.77'
R = 1,500.00'

-Y10A-POT Sta. 12+42.82

BM#27 ELEVATION = 515.18'
N 586952 E 1744242
BY10 STATION 13+48 47 LEFT
RR SPIKE IN BASE OF 10" PINE

-Y10A- POT 11+75.00
END CONSTRUCTION

-Y10A-PINC 10+50

-Y10A- POT 10+00.00
-Y10- POC 22+03.39

-Y10-POC 17+49.85
-L- POC 318+75.79

-Y10- PC 14+31.45

-Y10- PRC 20+60.12

-Y10- PT 23+62.82

-BY10- 594
POT 16+10.15

-BY10- 593
PINC 13+76.27

-BL- 576
PINC 267+51.72

-BL- 577
PINC 270+48.83

-BL- 578
PINC 273+68.89

-BY11- 597
PINC 31+60.31

-Y11- PC Sta. 40+27.44

-Y11- STA. 31+00

PINC 278+09.08 = PINC 11+13.41 POT 38+04.05

-BY11- 579

S 76° 55' 10.7" E

N 53° 21' 07.7" W

N 56° 24' 27.7" W

S 11° 32' 48.9" W

SEE SHEETS 2-H & 2-I FOR DRAINAGE DITCH DETAILS

FOR INTERSECTION AND U-TURN BULB DETAILS SEE SHEETS 2- & 2-

DETAIL A
FALSE SUMP
(Not to Scale)
Outside Ditch Traffic Flow
10:1
20:1
2.0'
0.5' Min. 1.0' Max
GI etc.
S = Ditch Slope
℄ Proposed Ditch
FROM STA. 313+65 RT
FROM STA. 315+60 RT
FROM STA. 320+00 RT

DETAIL C
FALSE SUMP
(Not to Scale)
Median Ditch
9"
2'
L (See Chart Below)
20'
GI etc.
S = Ditch Slope
℄ Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

FROM STA. 313+65 CL

GLEN RD.
731 / 1,000
100 / 100
631 / 900
-Y10- SR 1324
NC 2427 TROY BYPASS
12,100 / 17,300
-L-
12,641 / 18,200
100 / 100
110 / 200
-Y10- SR 1586
210 / 300
ADT 2014
ADT 2040
HOLLY HILLS DR.

SCALE:
0 50 100