PROJECT REFERENCE NO.	SHEET NO.
R-2904	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 25477 ENGINEER THAD F. DUNCAN — 9-14-04

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HEMEDAR — 9-14-04

REVISIONS

8/17/99

PREFORMED SCOUR HOLE

PLAN VIEW

Permanent Soil Reinforcement Matting (if req'd)

Install level and flush with natural ground.

Pipe or Ditch Outlet

Square Preformed Scour Hole (PSH)

Rip Rap in basin not shown for clarity

Seed, with native grasses at installation

A

A

W = 4 x D Typ.

B	4.5'
D	2'
W	8' max.
d	0-0.5' max.

SECTION A-A

Pipe or Ditch Outlet

Diam(in)

PSRN

d

Natural Ground

Linear Class "B" Rip Rap thick with Filter Fabric

DETAIL
FALSE SUMP

Median Ditch

9" 0.6%

2'-0"

6" min. Typ.

L (See chart below)

20'

Ditch Grade

℄ Proposed Ditch

(Not to Scale)

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'

-L-

Pls Sta 23+02.76
Fs = 3° 00' 56.0"
Ls = 200.00
LT = 133.35
ST = 66.68

Pl Sta 25+79.89
Δ = 12° 38' 33.8" (RT)
D = 3° 00' 56.0"
L = 419.25
T = 210.48
R = 1,900.00
SE = 0.04

Pls Sta 28+55.34
Fs = 3° 00' 56.0"
Ls = 200.00
LT = 133.35
ST = 66.68

NAD 83

STATE STREET BANK & TRUST COMPANY
DB 3162 PG 790
PB 95 PG 197
PB 99 PG 147

(3)

(1)

BECTON, DICKINSON AND COMPANY
DB 355 PG 138
PB 60 PG 77

MATCH TO SHEET 4 STA. 23+00

MATCH TO SHEET 6 STA. 36+00

S25°54'00"W 219.11'

S29°26'00"W 253.39'

S21°56'00"W 21.84'

S66°56'00"W 186.78'

8" PVC

UTILITY EASEMENT BY THIS PLAT

APPROXIMATE

BRUSH

WOODS

FOUNTAIN

W.E. 306.63

RETAIN

CONC

RIPRAP

BOLLARD

PLAYGROUND

28' BST APPROXIMATE

30' CAG

BRUSH

MTL

26' BST

5' BST

38' BST

RELOCATE BUS STOP

+90 95' +31.55 EX. EASE.

+90.95 EX. EASE

+45 85'

+65 95'

+45 EX. R/W

+40 EX. R/W

+50 85'

+00 100'

+20 105'

+00 85'

205' BST

50' E

50' C

50' F

50.00

2' R

S 40° 55' 34.6" E

NC 54 VARIABLE BST

EXISTING R/W

100' MEDIAN TAPER

330' FULL

100' FULL

150' RT TURN LANE TAPER

257' FULL

24' BRK WIDTH

12" CSP

GRAU 350

PROP. GR.

JB W/MH REMOVE

ELBOWS W/ O-RING GASKETS

CAT-1

PSH

PDE

SBG 2GI (ED)

CB (ED)

CB

2GI

D

SC Sta 23+69.41

CS Sta 27+88.66

ST Sta 29+88.66

-BL- 302
-L- STA 32+60.35
36.11' RT

-BL- 301
-L- STA 26+15.05
23.74' RT

BM #2
-BL- STA 31+65.20
179.52' RIGHT
ELEV. 310.31'

+60 EX. R/W, 80' & 90'

+00 EX. R/W, 80' & 90'

+00 85'

+90 EX. R/W

+25 EX. R/W

+50 85'

+05 EX. R/W

+55 EX. R/W

+85 90'

+50 115'

+75 EX. R/W, 85' & 95'

+15 EX. R/W, 85' & 95'

(2)

NORTEL ENTRANCE AND NC 54

1,700 / 3,100	NORTEL ENTRANCE	
1,000 / 1,600	600 / 1,400	
17,800 / 37,700	NC 54 -L-	17,000 / 37,300
700 / 1,000	300 / 800	
1,100 / 1,900		

2005 ADT
2025 ADT

☆ EXIST. SIGNAL

FOR -L- PROFILE SEE SHEET 8
PSH: PREFORMED SCOUR HOLE (SEE DETAIL)
SBG: SHOULDER BERM GUTTER

13-SEP-2004 16:05
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TFDuncan A1

RD212397 Monday September 13 2004 s05 TFDuncan rd-02oce34