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8/17/99

REVISIONS

SEE PLAN SHEETS 7 & 8 FOR PROFILES

PROJECT REFERENCE NO.	SHEET NO.
B-5301	4
R/W SHEET NO.	

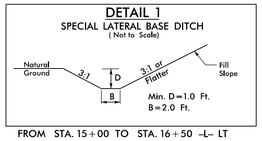
ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 32606 ENGINEER BENJAMIN K. CRAWFORD — Benjamin K. Crawford — 3/28/2020

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 35621 ENGINEER ANDREW M. HOWELL — Andrew M. Howell — 3/28/2020

SEPI Engineering & Construction, Inc.
1 Glenwood Avenue
Raleigh, NC 27603
Tel:919.789.9977
Fax:919.789.9591
License: C-2197

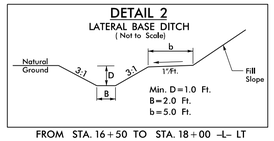
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DETAIL 1
SPECIAL LATERAL BASE DITCH (Not to Scale)



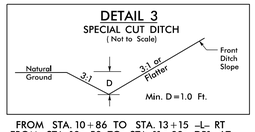
FROM STA. 15+00 TO STA. 16+50 –L– LT

DETAIL 2
LATERAL BASE DITCH (Not to Scale)



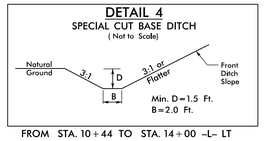
FROM STA. 16+50 TO STA. 18+00 –L– LT

DETAIL 3
SPECIAL CUT DITCH (Not to Scale)



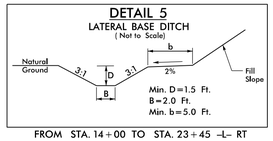
FROM STA. 10+86 TO STA. 13+15 –L– RT
FROM STA. 10+50 TO STA. 11+00 –DR1– LT
FROM STA. 10+32 TO STA. 11+00 –DR1– RT
FROM STA. 10+50 TO STA. 11+00 –DR2– LT
FROM STA. 11+00 TO STA. 11+25 –DR2– LT
FROM STA. 10+50 TO STA. 12+00 –DR2– RT
FROM STA. 12+00 TO STA. 14+40 –DR2– RT

DETAIL 4
SPECIAL CUT BASE DITCH (Not to Scale)



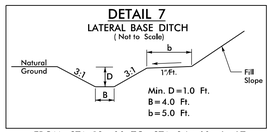
FROM STA. 10+44 TO STA. 14+00 –L– LT

DETAIL 5
LATERAL BASE DITCH (Not to Scale)



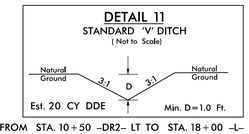
FROM STA. 14+00 TO STA. 23+45 –L– RT

DETAIL 7
LATERAL BASE DITCH (Not to Scale)



FROM STA. 18+00 TO STA. 24+60 –L– LT

DETAIL 11
STANDARD 'V' DITCH (Not to Scale)



FROM STA. 10+50 –DR2– LT TO STA. 18+00 –L– LT

–L– CURVE DATA
PI Sta 13+31.60
△ = 11° 47' 46.6" (LT)
D = 3° 49' 11.0"
L = 308.83'
T = 154.96'
R = 1,500.00'
SUPER = 06
RUNOFF = 162'

–DR2– CURVE DATA
PI Sta 14+32.39
△ = 79° 39' 41.4" (LT)
D = 143° 14' 22.0"
L = 55.61'
T = 33.36'
R = 40.00'

PI Sta 11+05.04
△ = 101° 10' 17.9" (RT)
D = 88° 08' 50.5"
L = 114.78'
T = 79.09'
R = 65.00'

–L– CURVE DATA
PI Sta 23+99.82
△ = 13° 09' 26.0" (LT)
D = 1° 38' 13.3"
L = 803.73'
T = 403.64'
R = 3,500.00'
SUPER = 0.04
RUNOFF = 108'

NOTE: SEE SHEET 7 & 8 FOR PROFILES

NAD 83/2011

WILSON FAMILY FARM, LLC
DB 2057 PG 530
MB II PG 80

ROBERT K. WILSON
DB 2127 PG 283

SAMUEL SMITH
DB 1606 PG 604

RANDALL AND ELEANOR SPAIN
DB 3542 PG 329

JESSIE C. MAYO
DB 2725 PG 108

JESSIE C. MAYO
DB 2725 PG 110

FELTON RAY HINES
DB V52 PG 575

SAMUEL H. SMITH
DB 138 PG 102
DB 049 PG 186

JODIE M. STACKHOUS
DB 1097 PG 45

ALVIN RAY RESPASS
DB 359 PG 802
DB S49 PG 218

STUART WAYNE RESPASS
DB 249 PG 782
DB S49 PG 218

RANDILYN BULLARD
DB 2307 PG 602
MB II PG 80

BEGIN TIP PROJECT B-5301
–L– POT STA. 11+00.00

BEGIN CONSTRUCTION
–L– POT 10+00.00

END CONSTRUCTION
–DR1– POT 11+10.00

–L– POT Sta. 10+00.00
–L– POC 13+36.17 = –DR1– POT 10+00.00
–L– POC 14+21.35 = –DR2– POT 14+65.64
–L– PC Sta. 11+76.64
–DR1– PC 10+26.89
–DR1– PT Sta. 10+64.65
–DR1– POT Sta. 11+12.61
–L– PT Sta. 14+85.46
–DR2– PC 13+99.03
–DR2– PT 11+40.72
–DR2– POT 10+00.00
–DR2– PC 10+25.95 BEGIN CONSTRUCTION
–L– PC Sta. 19+96.18
–L– PT Sta. 21+00.00
MATCHLINE –L– STA. 21+00.00 SEE SHEET 5

–DR1– CURVE DATA
PI Sta 10+50.42
△ = 86° 31' 39.6" (LT)
D = 229° 10' 59.2"
L = 37.75'
T = 23.53'
R = 25.00'

SPECIAL LATERAL 2–FT BASE DITCH SEE DETAIL 1
SPECIAL CUT 'V' DITCH SEE DETAIL 3
SPECIAL CUT 2–FT BASE DITCH SEE DETAIL 4
LATERAL 2–FT BASE DITCH EST. DDE = 102 C.Y. SEE DETAIL 2
LATERAL 2–FT BASE DITCH EST. DDE=608 C.Y. SEE DETAIL 5
LATERAL 4–FT BASE DITCH EST. DDE = 700 C.Y. SEE DETAIL 7
STANDARD 'V' DITCH GRADE=0.917% EST. DDE=20 C.Y. SEE DETAIL 11
CL 'B' RIP RAP EST. 2 TONS EST. 7 SYGF
REMOVE EXISTING GUARDRAIL
BEGIN SBG +95 –L– LT
15" W/2 ELBOWS
15" RCP–IV
CLEAN OUT PIPE
EXIST R/W (30' LT)
RETAIN –L–
GREU TL–3
MTL GUARDRAIL
SUDDENLINK
CENTURYLINK 25PAIR
DUKE ENERGY PROGRESS
SEPTIC FIELD AOS(3)
WOODED
EXISTING R/W
EXISTING Railroad R/W
NC 33 28' BST
NC 33 22' CONC
6" PVC Eastern Pines Water Company
TOWN OF GRIMESLAND RT PVC
16+80.00 EXIST R/W (98.42' RT)
S 31°29'45.8" E
S 49°09'24.3" W
S 52°24'48.5" W
S 44°06'54.4" E
N 51°10'54.2" W
S 43°17'32.5" E
S 27°38'47.9" W
N 37°06'20" W 148.22'
N 37°06'20" W 123.43'
N 37°06'20" W 134.96'
N 09°52'20" W 161.20'
S 3°38'20" E 150.00'
N 58°42'20" E 345.50'
N 58°21'40" E 296.45'
N 58°21'40" E 274.42'
N 58°21'40" E 64.55'
S 58°21'40" W 291.92'
N 49°08'40" E 326.24'
S 49°08'40" W 325.01'
N 49°08'40" E 327.40'
N 49°13'54" E 327.40'
N 39°35'22" E 218.44'
S 39°35'22" W 243.53'
S 26°00'00" E 88.68'
N 53°06'41" E 195.38'
S 53°06'41" W 195.39'
S 31°38'20" E 150.00'

3/24/2020
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