TIP PROJECT: U-3344A

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3344A	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

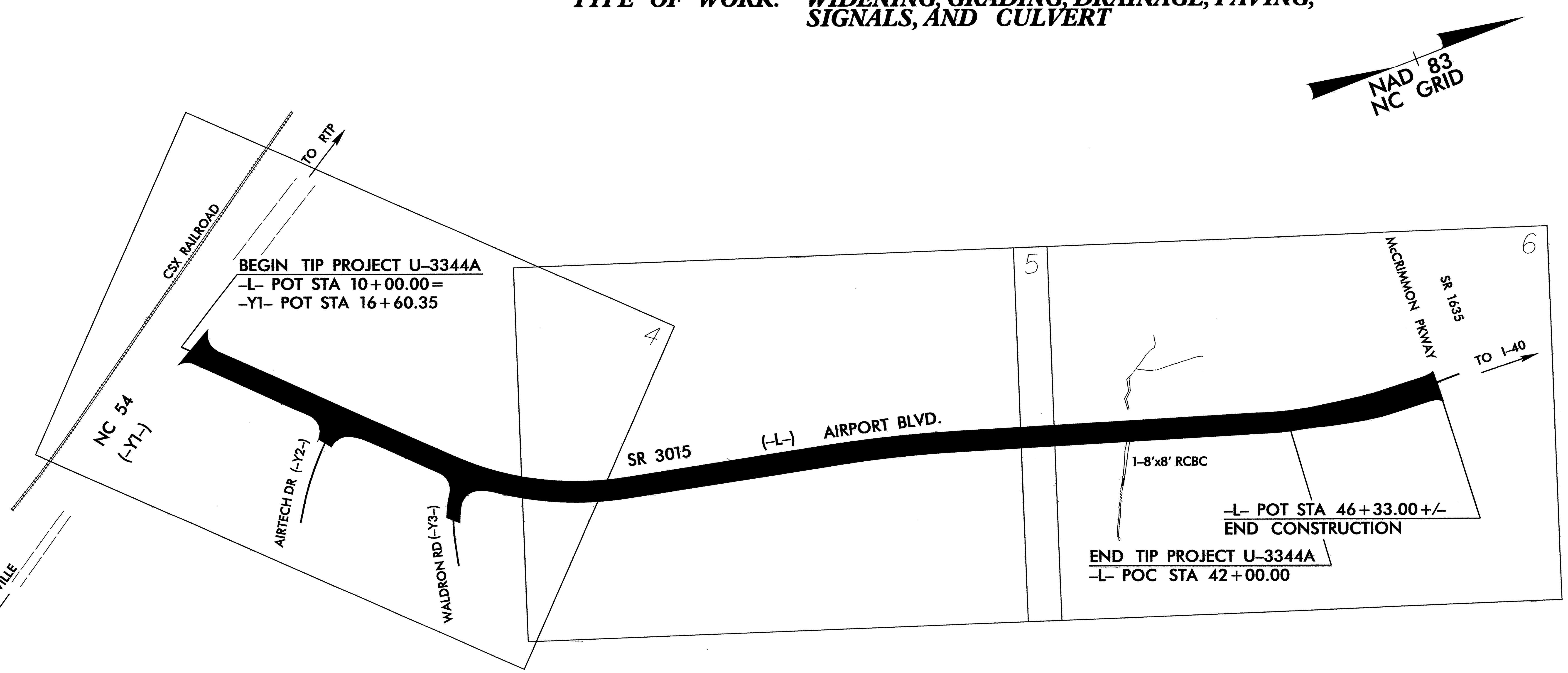
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WAKE COUNTY

LOCATION: MORRISVILLE - SR 3015 (AIRPORT BLVD.) FROM NC 54 TO McCRIMMON PARKWAY

TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING, SIGNALS, AND CULVERT



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A -OR- A
1632.02	Type B	B -OR- B
1632.03	Type C	C -OR- C

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2006 STANDARD SPECIFICATIONS

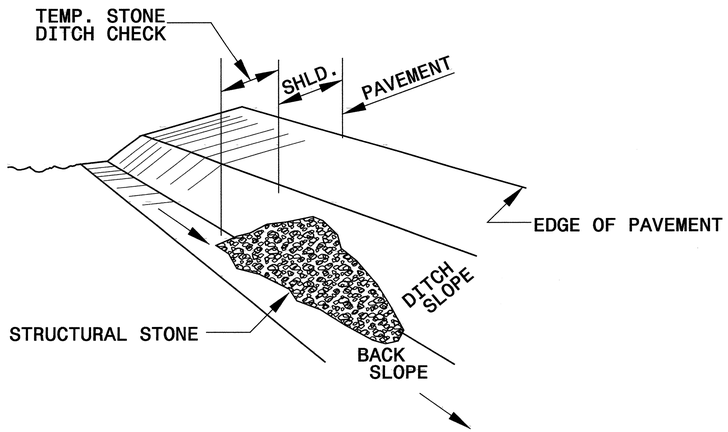
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated July 18, 2006 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1607.01 Gravel Construction Entrance
1622.01 Temporary Berms and Slope Drains
1630.02 Silt Basin Type B
1630.03 Temporary Silt Ditch
1630.04 Stilling Basin
1630.05 Temporary Diversion
1632.02 Rock Inlet Sediment Trap Type B
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A
1634.02 Temporary Rock Sediment Dam Type B
1635.02 Rock Pipe Inlet Sediment Trap Type B

PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

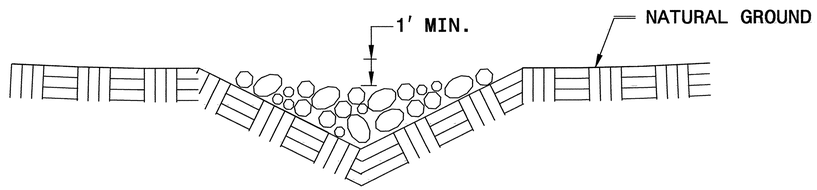


ISOMETRIC VIEW

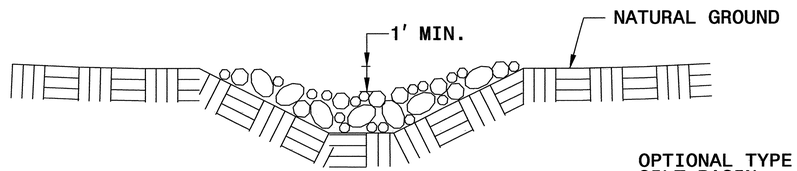
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

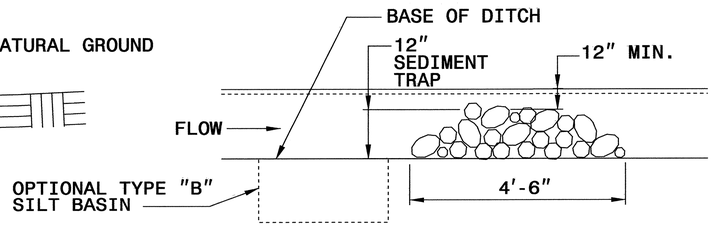
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
U-3344A	EC-3	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

SOIL STABILIZATION SUMMARY SHEET

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	19+50	20+50	RT	140
				SUBTOTAL	140
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					1820
				TOTAL	1960
				SAY	1960

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

-L-
PI Sta 20+78.49
△ = 32° 45' 29.4" (LT)
D = 6° 21' 58.3"
L = 514.56'
T = 264.53'
R = 900.00'
e = .06
Runoff = 252
DS = 50 mph

-Y2-
PI Sta 11+93.97
△ = 12° 46' 28.3" (LT)
D = 7° 32' 20.1"
L = 169.45'
T = 85.08'
R = 760.00'
DS = 30 mph

-Y3-
PI Sta 10+98.77
△ = 31° 57' 04.5" (LT)
D = 16° 36' 26.9"
L = 192.39'
T = 98.77'
R = 345.00'
DS = 30 mph

NAD 1983 NC GRID

BEGIN STATE PROJECT U-3344A
-L- POT STA 10+00.00=
-Y1- POT STA 15+60.35

BEGIN MILLING & RESURFACING
-L- POT STA 10+36.70

END MILLING & RESURFACING/BEG GRADE
-L- POT STA 13+50

-L- POT STA 14+77.58=
-Y2- POT STA 10+00.00

-L- POC STA 18+66.41=
-Y3- PC STA 10+00.00

-Y2- POC STA 12+00
END CONST

-Y3- POT STA 12+00
END CONST

PC STA 11+08.90

PT STA 11+92.39

PT STA 12+78.34

POT STA 13+18.34

POT STA 12+10.08

POC STA 19+01.63

PC STA 18+13.96

POC STA 18+68.45 RT=

38 x 18 x 3

PROPOSED SLOPE STAKE LINE (TYP.)

PEARL ROAD PROPERTIES
PB 1989 PG 916
DB 8533 PG 1118

WEEKS REALTY, L.P.
PB 1986 PG 2191
DB 7364 PG 866

LEE-MOORE OIL COMPANY
PB 1998 PG 437
DB 8191PG 174

COC PROPERTIES INC. ETAL
PB 1991PG 1016
DB 7593 PG 232

GPI PROPERTIES 1995, LLC.
PB 1991PG 1016
DB 6937 PG 1

N. GARY BOYETTE
PB 1991PG 1016 DB 5006 PG 805

DOVE ASSOCIATES I, LLC.
PB 1999 PG 456
DB 8223 PG 1359

PANSILLEE BRANNAN ET AL
PB 1986 PG 1695
DB 3565 PG 519

JLH INVESTMENTS, INC.
PB 1998 PG 261
DB 7896 PG 783

DOVE ASSOCIATES IV, LLC.
PB 1999 PG 456
DB 8223 PG 1356

REMOVE 2GI COLLAR & EXTEND 24" RCP

REMOVE 2GI COLLAR & EXTEND 15" RCP

2GI-A SP. DET.

LOCATE 9"PVC AND TIE TO SPRING BOX

SPRING BOX

CLASS B RIP RAP
SEE DETAIL A

LATERAL BASE DITCH
SEE DETAIL B

REMOVE EXIST. SIDEWALK AND C & G
TIE TO EXIST C & G AND SIDEWALK

5' SIDEWALK

2'-6" C & G

DETAIL A
LATERAL BASE DITCH
(Not to Scale)

Natural Ground | 3:1 | D | 3:1 | Fill Slope | b | 1'/Ft. | B

Min. D = 1.5 Ft.
B = 3 Ft.
b = 5 Ft.

II+00 -Y3- LT TO 20+50 -L- RT
EST. 131 CY DDE

DETAIL B
LATERAL BASE DITCH
(Not to Scale)

Natural Ground | 3:1 | D | 3:1 | Fill Slope | b | 1'/Ft. | B | Filter Fabric

Min. D = 1.0 Ft.
Max. d = 1.0 Ft.
B = 3.0 Ft.
b = 5-15Ft.

Type of Liner = CLASS "B" RIP RAP

20+50 TO 21+00 -L- RT
EST. 30 TONS CLASS "B" RIP RAP

DRAINAGE NOTE I:
II+00 -Y3- LT
EST. 3 TONS CLASS "B" RIP RAP
EST. 10 SY FILTER FABRIC

NOTE: ALL DRIVEWAYS ARE 24' UNLESS OTHERWISE NOTED

SEE SHEET 7 FOR -L- PROFILE
SEE SHEET 8 FOR -Y2- & -Y3- PROFILE

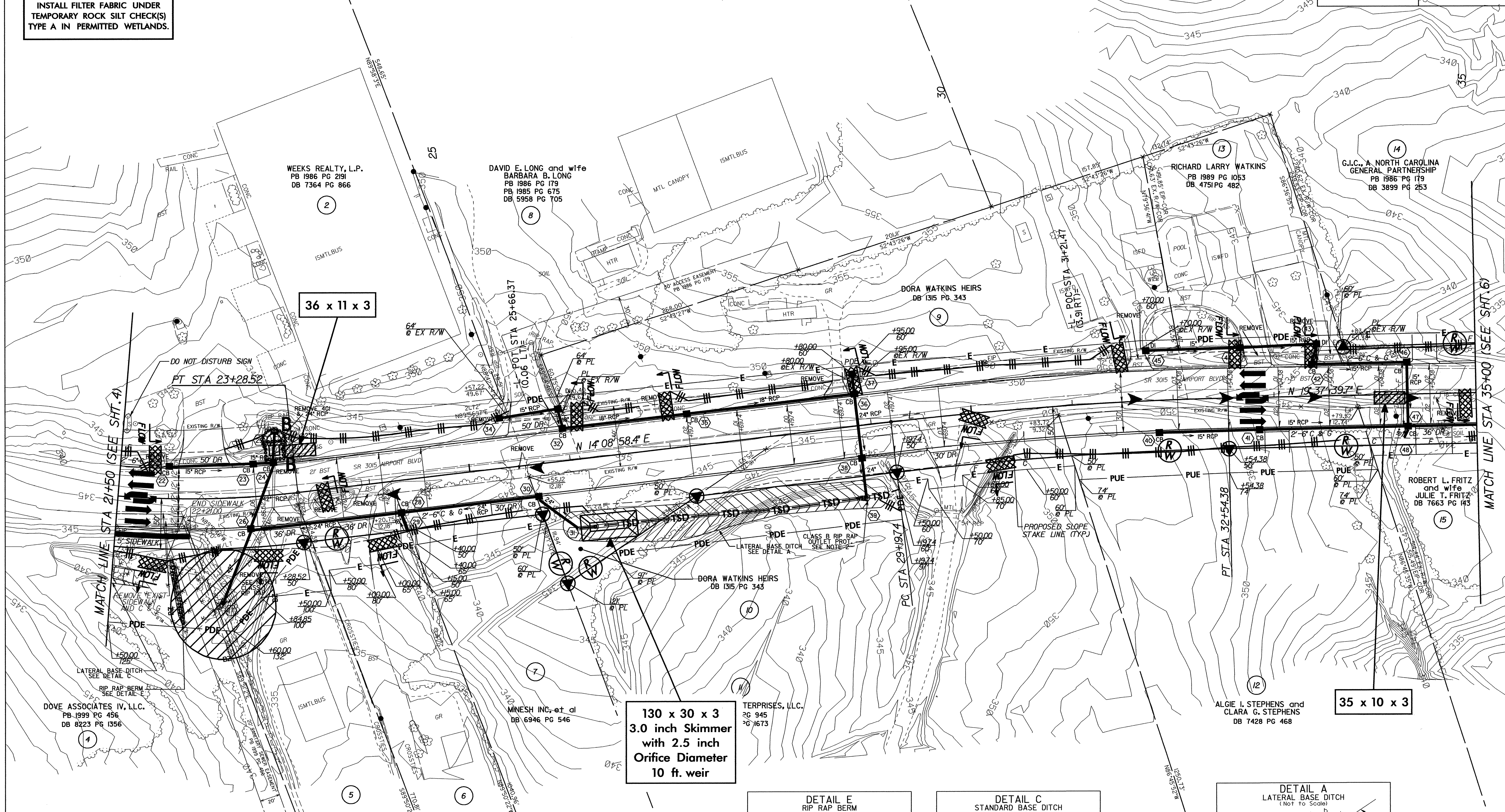
PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

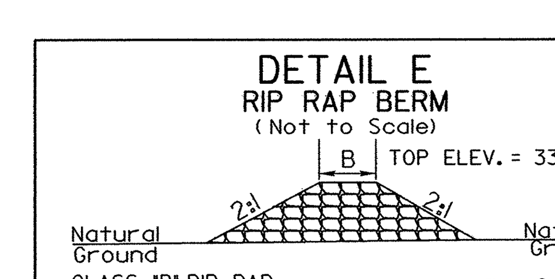
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

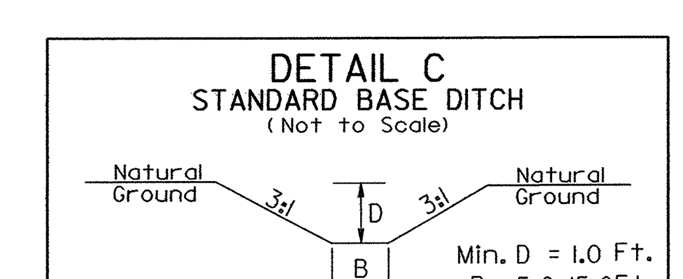
INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

-L-
PI Sta 30+87.19
Δ = 5° 28' 41.3" (RT)
D = 1° 38' 13.3"
L = 334.64'
T = 167.45'
R = 3,500.00'
e = .03
Runoff = 150
DS = 50 mph

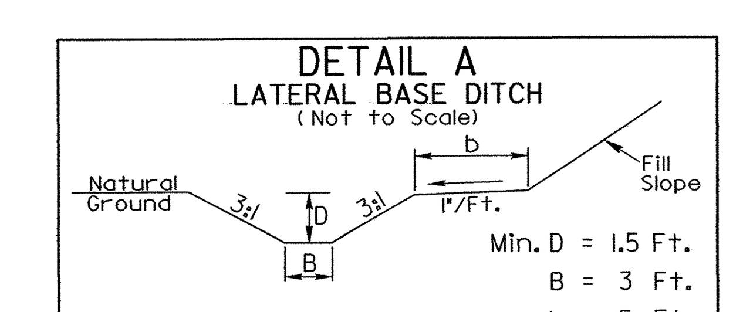




22+05 -L- RT
EST. 25 TONS CLASS 'B' RIP RAP
EST. 50 SY FILTER FABRIC



21+00 TO 21+82 -L- RT
EST 57 CY DDE



26+00 TO 29+00 -L- RT
EST 954 CY DDE

DRAINAGE NOTE 1:
22+50 -L- RT
EST 20 TONS CLASS 'I' RIP RAP

DRAINAGE NOTE 2:
28+87 -L- RT
EST 5 TONS CLASS 'B' RIP RAP

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

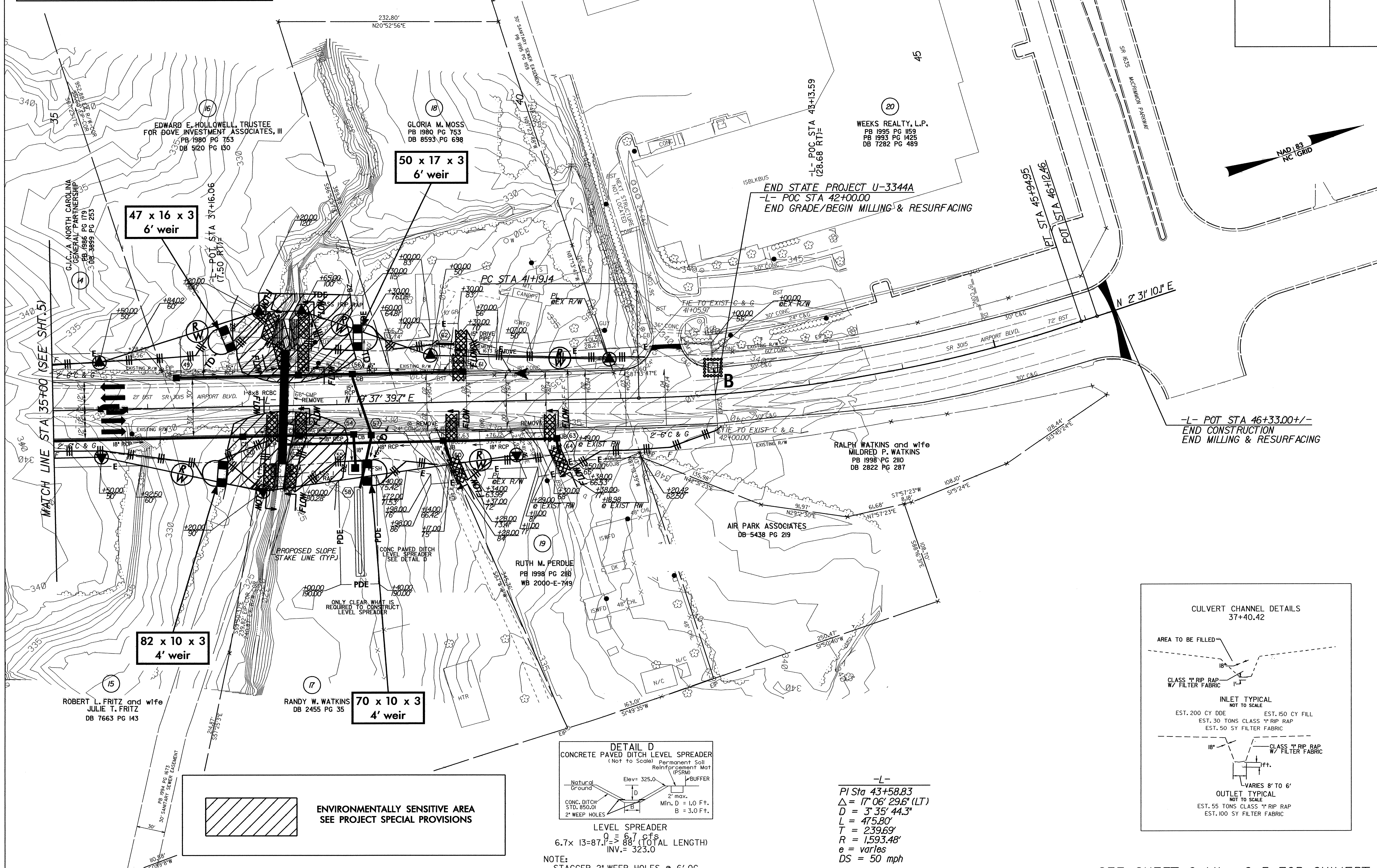
NOTE: ALL DRIVEWAYS ARE 24' UNLESS OTHERWISE NOTED

SEE SHEET 7 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

DETAIL D
CONCRETE PAVED DITCH LEVEL SPREADER
(Not to Scale)

Natural Ground; Elev= 325.0; Permanent Soil Reinforcement Mat (PSRM); BUFFER; CONC. DITCH STD. 850.01; 2" WEEP HOLES; 2" max.; Min. D = 1.0 Ft.; B = 3.0 Ft.

LEVEL SPREADER
Q = 6.7 cfs
6.7x 13=87.1=> 88' (TOTAL LENGTH)
INV.= 323.0

NOTE:
STAGGER 2" WEEP HOLES @ 6' OC

-L-
PI Sta 43+58.83
Δ = 17°06' 29.6" (LT)
D = 3°35' 44.3"
L = 475.80'
T = 239.69'
R = 1,593.48'
e = varies
DS = 50 mph

CULVERT CHANNEL DETAILS
37+40.42

AREA TO BE FILLED
CLASS "I" RIP RAP W/ FILTER FABRIC

INLET TYPICAL
NOT TO SCALE
EST. 200 CY DDE
EST. 150 CY FILL
EST. 30 TONS CLASS "I" RIP RAP
EST. 50 SY FILTER FABRIC

CLASS "I" RIP RAP W/ FILTER FABRIC
VARIES 8' TO 6'

OUTLET TYPICAL
NOT TO SCALE
EST. 55 TONS CLASS "I" RIP RAP
EST. 100 SY FILTER FABRIC

SEE SHEET C-1 thru C-5 FOR CULVERT PLANS
NOTE: ALL DRIVEWAYS ARE 24' UNLESS OTHERWISE NOTED
SEE SHEET 8 FOR -L- PROFILE

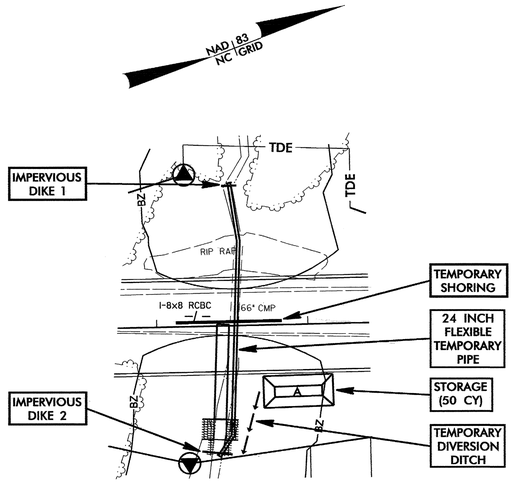
TYLIN INTERNATIONAL $USER$ $DATE$ $TIME$ $FILE$

CULVERT CONSTRUCTION SEQUENCE STA. 37+40 –L–

PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-7/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

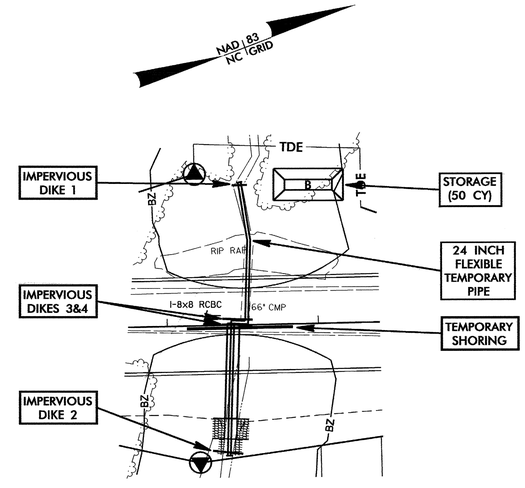
PHASE I

1. CONSTRUCT STILLING BASIN 'A' (50 CY) AND TEMPORARY DIVERSION DITCH.
2. CONSTRUCT TEMPORARY PAVEMENT AND SHIFT TRAFFIC TO LEFT SIDE OF ROADWAY.
3. INSTALL TEMPORARY SHORING AND REMOVE 23 FEET OF 66" CMP ON DOWNSTREAM END.
4. CONSTRUCT IMPERVIOUS DIKES 1 AND 2, AND 24" FLEXIBLE TEMPORARY PIPE.
5. CONSTRUCT 76 FEET OF CULVERT ON DOWNSTREAM END AND OUTLET CHANNEL IMPROVEMENTS.



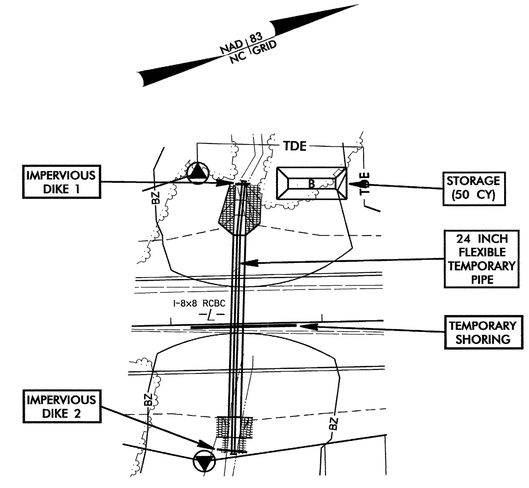
PHASE II

6. CONSTRUCT IMPERVIOUS DIKES 3 AND 4, AND REALIGN 24" FLEXIBLE TEMPORARY PIPE.
7. CONSTRUCT STILLING BASIN 'B' (50 CY), AND REMOVE STILLING BASIN 'A'.
8. CONSTRUCT PROPOSED ROADWAY OVER COMPLETED DOWNSTREAM SECTION OF CULVERT AND SHIFT TRAFFIC.
9. REMOVE TEMPORARY SHORING FROM PHASE I AND CONSTRUCT TEMPORARY SHORING OVER COMPLETED DOWNSTREAM SECTION OF CULVERT.



PHASE III

10. REMOVE IMPERVIOUS DIKES 3 AND 4, AND REALIGN 24" FLEXIBLE TEMPORARY PIPE.
11. REMOVE REMAINDER OF 66" CMP.
12. CONSTRUCT UPSTREAM SECTION OF CULVERT AND INLET CHANNEL IMPROVEMENTS.
13. COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-8/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

-L-
PI Sta 20+78.49
△ = 32° 45' 29.4" (LT)
D = 6° 21' 58.3"
L = 514.56'
T = 264.53'
R = 900.00'
e = .06
Runoff = 252
DS = 50 mph

-Y2-
PI Sta 11+93.97
△ = 12° 46' 28.3" (LT)
D = 7° 32' 20.1"
L = 169.45'
T = 85.08'
R = 760.00'
DS = 30 mph

-Y3-
PI Sta 10+98.77
△ = 31° 57' 04.5" (LT)
D = 16° 36' 26.9"
L = 192.39'
T = 98.77'
R = 345.00'
DS = 30 mph

NAD 83 NC GRID

BEGIN STATE PROJECT U-3344A
-L- POT STA 10+00.00=
-Y1- POT STA 16+60.35

BEGIN MILLING & RESURFACING
-L- POT STA 10+56.70

-L- POT STA 10+35.29 (48.91' RT)=

S 32° 17' 49.2" E

NC HWY 54

EXISTING R/W

PEARL ROAD PROPERTIES
PB 1989 PG 916
DB 8533 PG 1118

ISMTLBUS

CANOPY

BST

CONC

8' BLK WALL

48' BLK WALL

8' CHL

18" CONC

24" C&G

22" C&G

W/LT

N87°18'32"E 488.23'

N87°43'36"E 23.47'

N87°27'29"E 200.40'

S87°43'36"W 35.22'

-L- POT STA 14+28.35 (41.99' RT)=

-L- POT STA 14+77.58=
-Y2- POT STA 10+00.00

WEEKS REALTY, L.P.
PB 1986 PG 2191
DB 7364 PG 866
(2)

S 43° 07' 18.3" E 337.97'

N 54° 43' W

19 x 7 x 3

-L- POC STA 18+66.41=
-Y3- PC STA 10+00.00

-L- POC STA 19+01.63 (18.45' RT)=

PC STA 18+13.96

PROPOSED SLOPE STAKE LINE (TYP.)

REMOVE 2GI COLLAR & EXTEND 24" RCP

REMOVE 2GI COLLAR & EXTEND 15" RCP

2GI-A SP. DET.

22 x 8 x 3

MATCH LINE STA 21+50 (SEE SHT. 5)

LOCATE 8" PVC AND TIE TO SPRING BOX

RETAIN

SR 3015 AIRPORT BLVD

5' SIDEWALK

CLASS B RIP-RAP

LATERAL BASE DITCH SEE DETAIL B

REMOVE EXIST. SIDEWALK AND C & G

TIE TO EXIST C & G AND SIDEWALK

DOVE ASSOCIATES IV, LLC.
PB 1999 PG 456
DB 8223 PG 1356
(4)

PT STA 11+92.39

POT STA 12+70.08

-Y3- POT STA 12+00
END CONST

S 75° 18' 50.3" E

DETAIL A
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, b, 1'/Ft., Fill Slope, B

Min. D = 1.5 Ft.
B = 3 Ft.
b = 5 Ft.

11+00 -Y3- LT TO 20+50 -L- RT
EST. 131CY DDE

INSTALL PSRM IN THE PROPOSED DITCH LINE.

DRAINAGE NOTE 1:
11+00 -Y3- LT
EST. 3 TONS CLASS "B" RIP RAP
EST. 10 SY FILTER FABRIC

END MILLING & RESURFACING/BEG GRADE
-L- POT STA 13+50

TIE TO EXIST C & G
13+92.87 GENERATOR

N 46° 54' 27.8" E -L-

SR 3015 AIRPORT BLVD

UNABLE TO LOCATE END OF PIPE

APPROX JB NOT FOUND

COLLAR EXTEND 15" RCP

REMOVE

CQC PROPERTIES INC. ETAL
PB 1991PG 1016
DB 7593 PG 232

GPI PROPERTIES 1995, LLC.
PB 1991PG 1016
DB 6937 PG 1

NEXT STRUCTURES NOT LOCATED

TIE TO EXIST C & G
12+92.72

TIE TO EXIST C & G
11+33.16

TIE TO EXIST C & G AND SIDEWALK
11+17.07

2-ISLS 8 GAS PUMPS U/MTL CANOPY

1-ISL 6 GAS PUMPS U/MTL CANOPY

5-ISLS 5 GAS PUMPS U/MTL CANOPY

40' MTL RAIL

20' SANITARY SEWER EASEMENT PB 1991PG 1016

N. GARY BOYETTE
PB 1991PG 1016 DB 5006 PG 805

S47°37'46"W 212.38'

35.55' S32°25'11"E

-Y2- POC STA 12+00
END CONST

DOVE ASSOCIATES I, LLC.
PB 1999 PG 456
DB 8223 PG 1359

PANSILEE BRANNAN ET AL
PB 1986 PG 1695
DB 3565 PG 519

N88°27'32"W 2.57'

S88°23'40"E 295.87'

4.7' CONC HW

20

-Y1-

-Y2-

PT STA 12+78.34

POT STA 13+18.34

S 55° 53' 46" E

198.32' S12°17'40"W

183.27' S12°33'37"W

10 x 6 x 3

DETAIL B
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, d, D, 3:1, b, 1'/Ft., Fill Slope, Filter Fabric, B

Min. D = 1.0 Ft.
Max. d = 1.0 Ft.
B = 3.0 Ft.
b = 5-15Ft.

Type of Liner = CLASS "B" RIP RAP

20+50 TO 21+00 -L- RT
EST. 30 TONS CLASS "B" RIP RAP

NOTE: ALL DRIVEWAYS ARE 24' UNLESS OTHERWISE NOTED

SEE SHEET 7 FOR -L- PROFILE
SEE SHEET 8 FOR -Y2- & -Y3- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-9/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

-L-
PI Sta 30+87.19
△ = 5° 28' 41.3" (RT)
D = 1° 38' 13.3"
L = 334.64'
T = 167.45'
R = 3,500.00'
e = .03
Runoff = 150
DS = 50 mph

NAD 83 NCT GRID

10 x 7 x 3

10 x 5 x 3

10 x 6 x 3

50 x 17 x 3

130 x 30 x 3
3.0 inch Skimmer
with 2.5 inch
Orifice Diameter
10 ft. weir

155 x 22 x 3
3.0 inch Skimmer
with 2.5 inch
Orifice Diameter
10 ft. weir

WEEKS REALTY, L.P.
PB 1986 PG 2191
DB 7364 PG 866
2

DAVID E. LONG and wife
BARBARA B. LONG
PB 1986 PG 179
PB 1985 PG 675
DB 5958 PG 705
8

DORA WATKINS HEIRS
DB 1315 PG 343
9

RICHARD LARRY WATKINS
PB 1989 PG 1053
DB 4751 PG 482
13

G.I.C., A NORTH CAROLINA GENERAL PARTNERSHIP
PB 1986 PG 179
DB 3899 PG 253
14

DOVE ASSOCIATES IV, LLC.
PB 1999 PG 456
DB 8223 PG 1356
4

MINESH INC, et al
DB 6946 PG 546
7

TERPRISES, LLC.
PG 945
PG 1673
11

DORA WATKINS HEIRS
DB 1315 PG 343
10

ALGIE I. STEPHENS and
CLARA G. STEPHENS
DB 7428 PG 468
12

ROBERT L. FRITZ
and wife
JULIE T. FRITZ
DB 7663 PG 143
15

MATCH LINE STA 21+50 (SEE SHT. 4)

MATCH LINE STA 35+00 (SEE SHT. 6)

PT STA 23+28.52

PC STA 25+66.37

PT STA 29+19.71

PC STA 31+21.47

PT STA 32+54.38

DO NOT DISTURB SIGN

DRAINAGE NOTE 1:
22+50 -L- RT
EST 20 TONS CLASS "I" RIP RAP

DRAINAGE NOTE 2:
28+87 -L- RT
EST 5 TONS CLASS "B" RIP RAP

DETAIL E
RIP RAP BERM
(Not to Scale)
CLASS "B" RIP RAP W/ FILTER FABRIC
B = 2.0 Ft.
22+05 -L- RT
EST. 25 TONS CLASS "B" RIP RAP
EST. 50 SY FILTER FABRIC

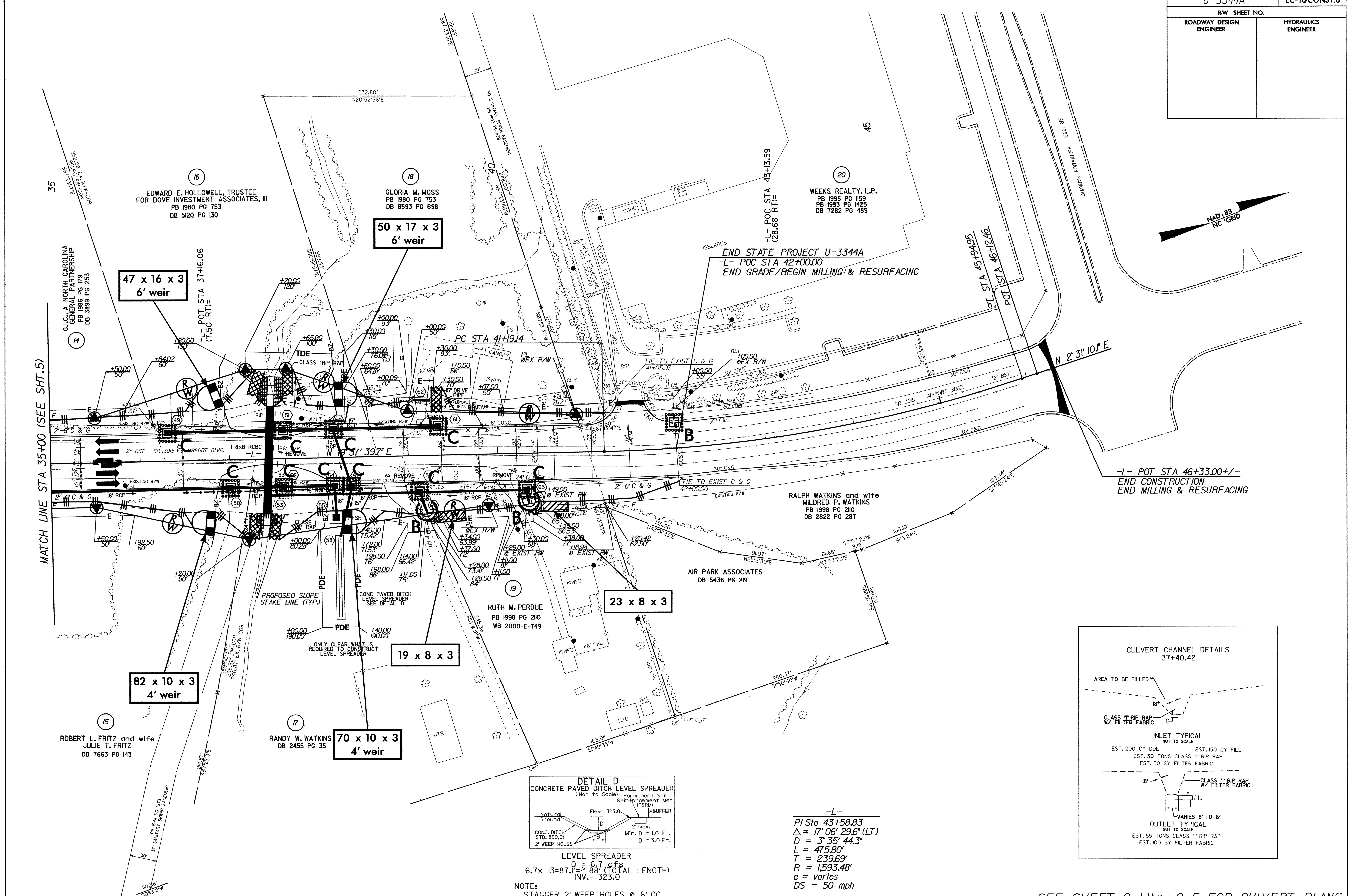
DETAIL C
STANDARD BASE DITCH
(Not to Scale)
Min. D = 1.0 Ft.
B = 5.0-15.0 Ft.
21+00 TO 21+82 -L- RT
EST 57 CY DDE

DETAIL A
LATERAL BASE DITCH
(Not to Scale)
Min. D = 1.5 Ft.
B = 3 Ft.
b = 5 Ft.
26+00 TO 29+00 -L- RT
EST 994 CY DDE

NOTE: ALL DRIVEWAYS ARE 24' UNLESS OTHERWISE NOTED

SEE SHEET 7 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3344A	EC-10/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE STA 35+00 (SEE SHT.5)
EDWARD E. HOLLOWELL, TRUSTEE FOR DOVE INVESTMENT ASSOCIATES, III
PB 1980 PG 753
DB 5120 PG 130
GLORIA M. MOSS
PB 1980 PG 753
DB 8593 PG 698
WEEKS REALTY, L.P.
PB 1995 PG 1159
PB 1993 PG 1425
DB 7282 PG 489
G.I.C., A NORTH CAROLINA GENERAL PARTNERSHIP
PB 1986 PG 179
DB 3899 PG 253
47 x 16 x 3
6' weir
50 x 17 x 3
6' weir
-L- POT STA 37+16.06 (7.50 RT)=
-L- POC STA 43+13.59 (28.68 RT)=
END STATE PROJECT U-3344A
-L- POC STA 42+00.00
END GRADE/BEGIN MILLING & RESURFACING
PT STA 45+94.95
POT STA 46+12.46
N 2° 31' 10.1" E
NAD 83 NC GRID
SR 1635 McCRIMMON PARKWAY
SR 3015 AIRPORT BLVD.
PC STA 41+19.14
TIE TO EXIST C & G 41+05.97
TIE TO EXIST C & G 42+00.00
-L- POT STA 46+33.00+/-
END CONSTRUCTION
END MILLING & RESURFACING
RALPH WATKINS and wife
MILDRED P. WATKINS
PB 1998 PG 2110
DB 2822 PG 287
AIR PARK ASSOCIATES
DB 5438 PG 219
23 x 8 x 3
19 x 8 x 3
RUTH M. PERDUE
PB 1998 PG 2110
WB 2000-E-749
82 x 10 x 3
4' weir
70 x 10 x 3
4' weir
ROBERT L. FRITZ and wife
JULIE T. FRITZ
DB 7663 PG 143
RANDY W. WATKINS
DB 2455 PG 35
PROPOSED SLOPE STAKE LINE (TYP)
CONC PAVED DITCH LEVEL SPREADER SEE DETAIL D
ONLY CLEAR WHAT IS REQUIRED TO CONSTRUCT LEVEL SPREADER
1-8x8 RCBC
CLASS I RIP RAP
DETAIL D
CONCRETE PAVED DITCH LEVEL SPREADER
(Not to Scale)
Permanent Soil Reinforcement Mat (PSRM)
Natural Ground
Elev= 325.0
BUFFER
2" max.
Min. D = 1.0 Ft.
B = 3.0 Ft.
CONC. DITCH STD. 850.01
2" WEEP HOLES
LEVEL SPREADER
Q = 6.7 cfs
6.7x 13=87.1'=> 88' (TOTAL LENGTH)
INV.= 323.0
NOTE:
STAGGER 2" WEEP HOLES @ 6' OC
-L-
PI Sta 43+58.83
Δ = 17° 06' 29.6" (LT)
D = 3° 35' 44.3"
L = 475.80'
T = 239.69'
R = 1,593.48'
e = varies
DS = 50 mph
CULVERT CHANNEL DETAILS
37+40.42
AREA TO BE FILLED
CLASS "I" RIP RAP W/ FILTER FABRIC
INLET TYPICAL
NOT TO SCALE
EST. 200 CY DDE
EST. 150 CY FILL
EST. 30 TONS CLASS "I" RIP RAP
EST. 50 SY FILTER FABRIC
OUTLET TYPICAL
NOT TO SCALE
VARIES 8' TO 6'
EST. 55 TONS CLASS "I" RIP RAP
EST. 100 SY FILTER FABRIC

SEE SHEET C-1 thru C-5 FOR CULVERT PLANS

NOTE: ALL DRIVEWAYS ARE 24' UNLESS OTHERWISE NOTED

SEE SHEET 8 FOR -L- PROFILE

TYLIN INTERNATIONAL #USER# #DATE# #TIME# #FILE#