TIP PROJECT: B-3856

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3856	EC-1	

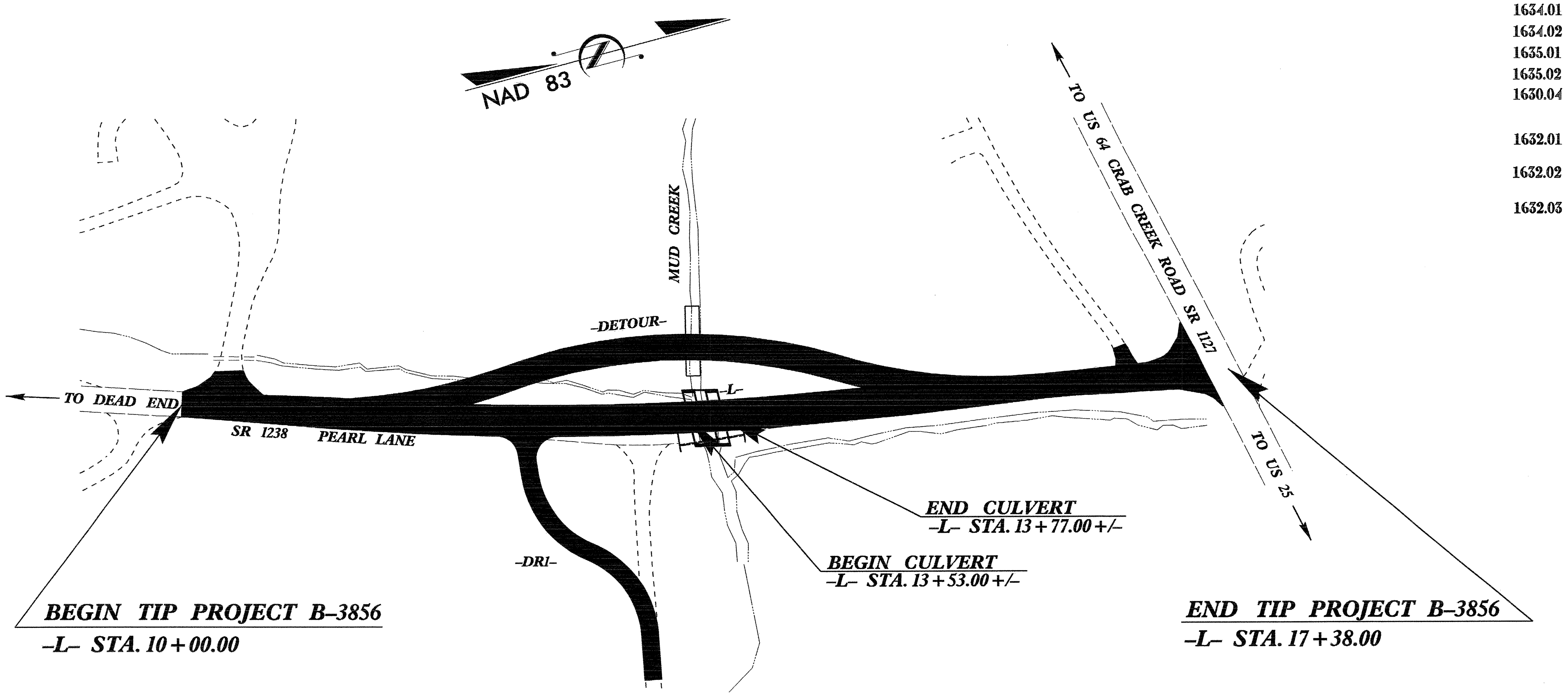
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

HENDERSON COUNTY

LOCATION: BRIDGE NO. 335 OVER MUD CREEK AND APPROACHES ON SR 1238 (PEARL LANE)
TYPE OF WORK: GRADING, DRAINAGE, PAVING 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
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	

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

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

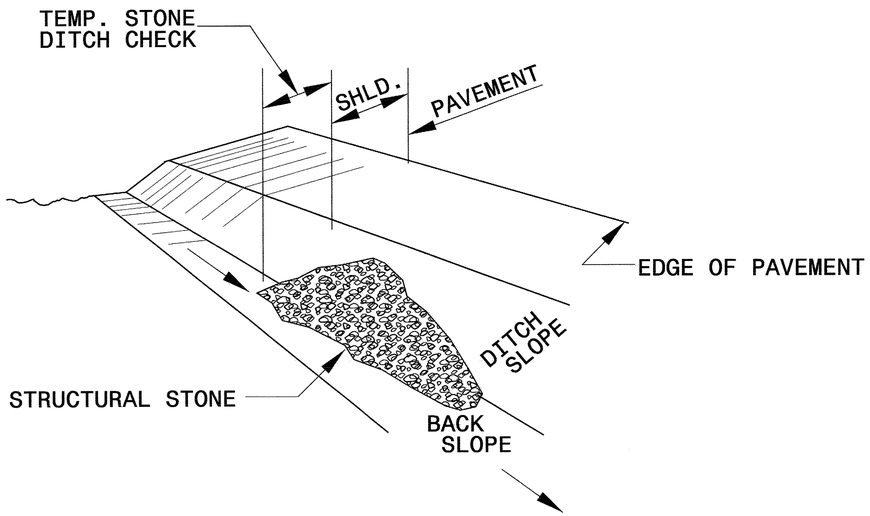
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated July 18, 2006 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1606.01 Special Sediment Control Fence
1607.01 Gravel Construction Entrance
1630.02 Silt Basin Type B
1630.04 Stilling Basin
1630.05 Temporary Diversion
1633.01 Temporary Rock Silt Check Type A
1634.02 Temporary Rock Sediment Dam Type B

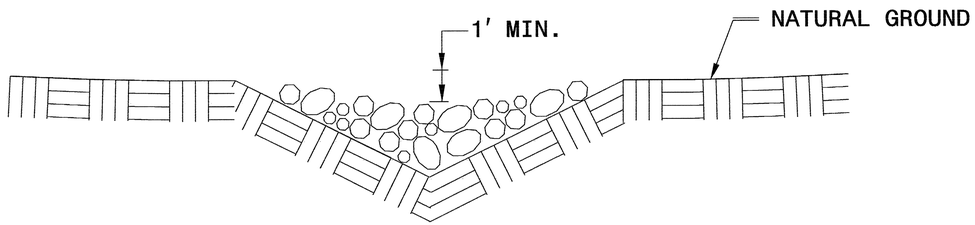
20-APR-2007 15:49
rojects-b\b3856\environmental\details\b3856_rdy_ec_tsh.dgn
jenniferparish AT RENV214546

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

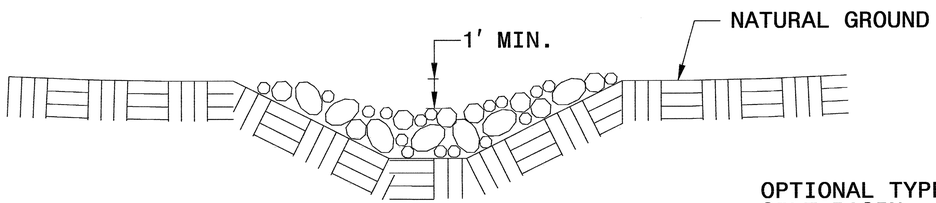
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



ISOMETRIC VIEW



CROSS SECTION
VEE DITCH

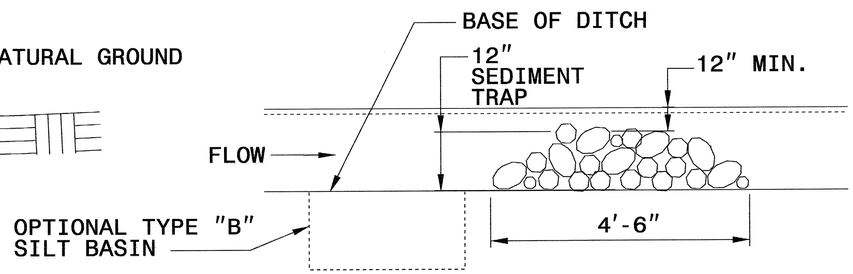


CROSS SECTION
TRAPEZOIDAL DITCH

NOTES:

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

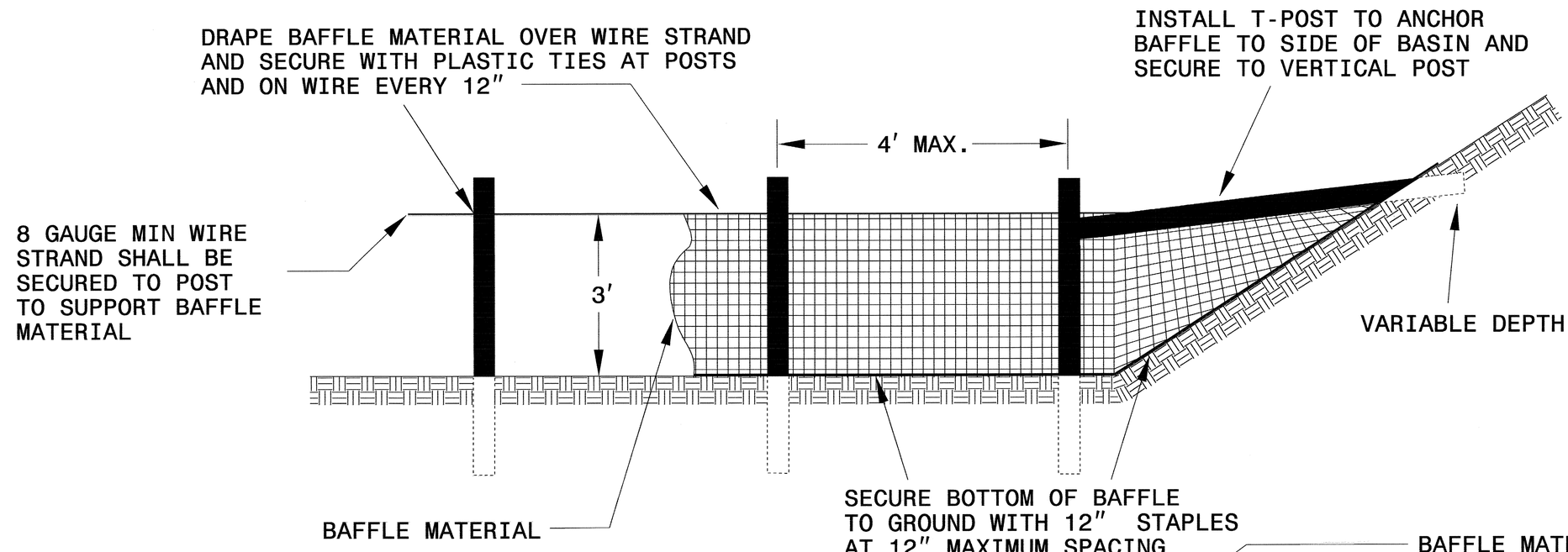
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

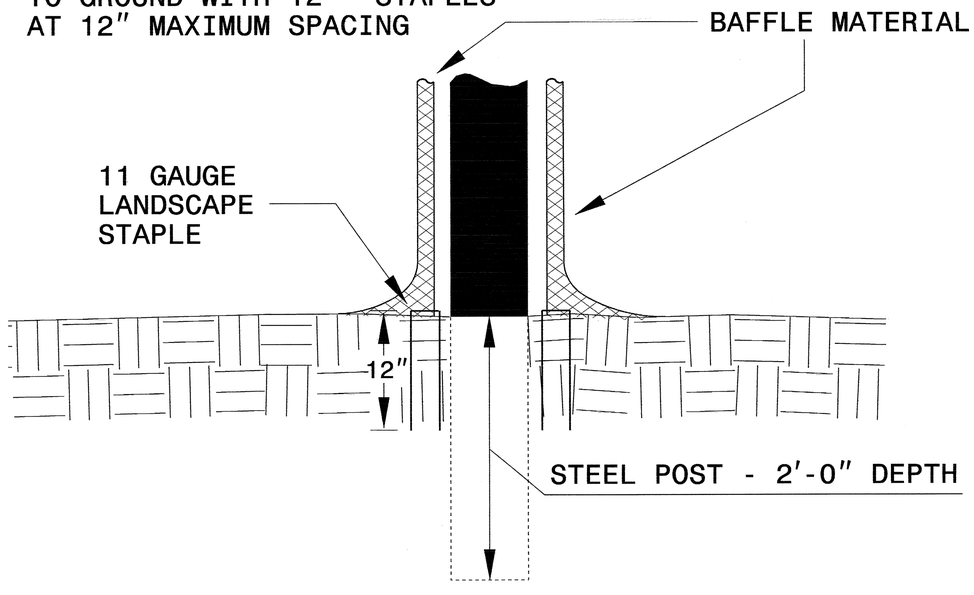


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



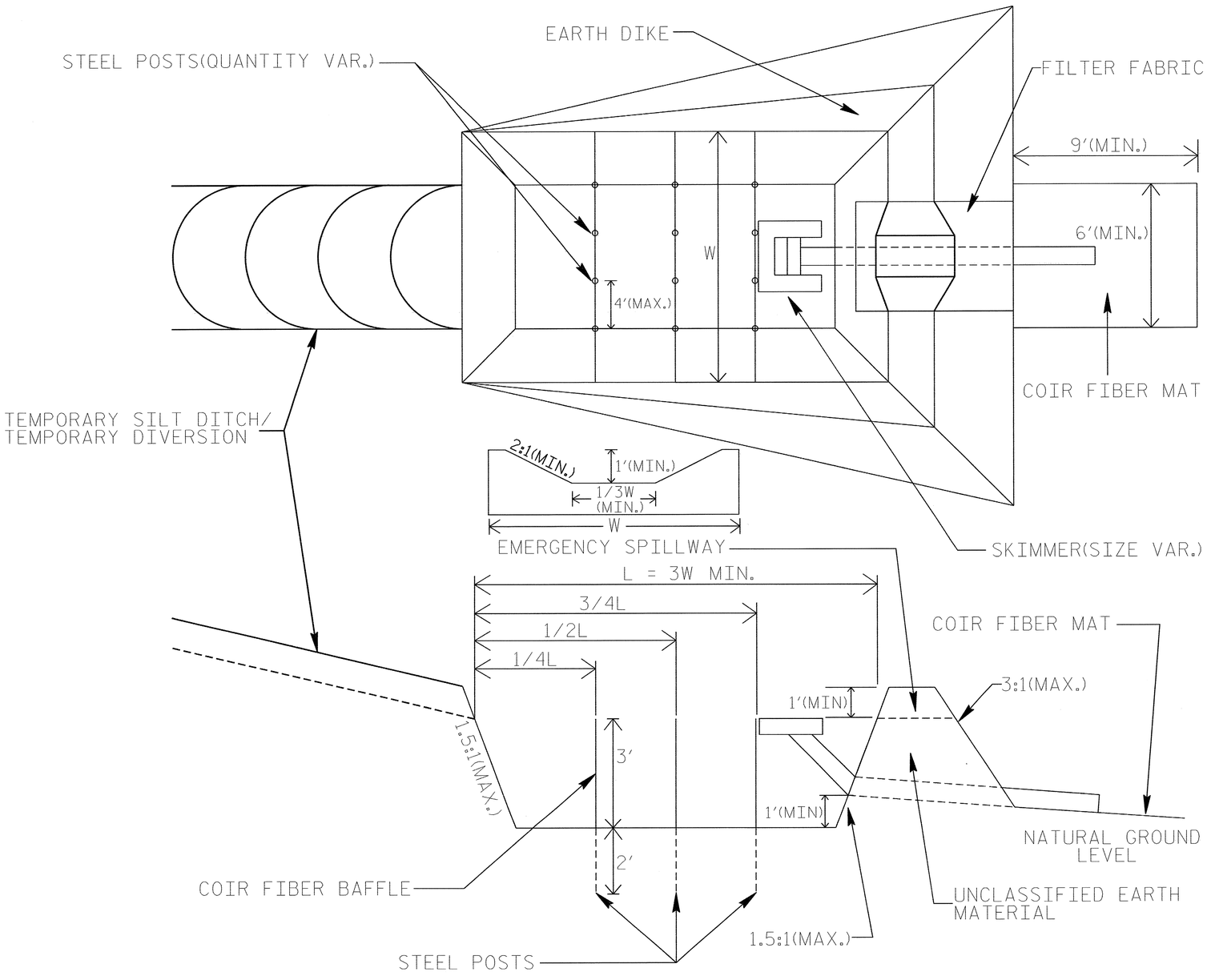


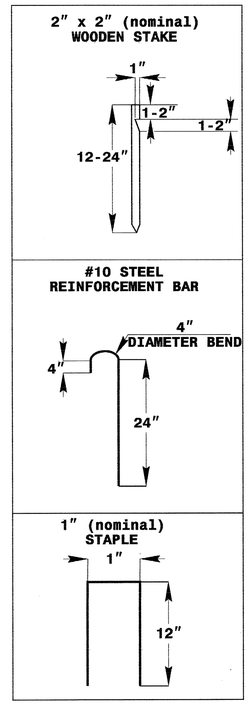
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER





COIR FIBER MAT ANCHOR OPTIONS

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	10+50	12+20	RT	120
4	-L-	12+58	15+00	RT	220
4	-L-	12+00	13+80	LT	130
4	-DET-	13+50	15+00	LT	110
				SUBTOTAL	580
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					415
				TOTAL	995
				SAY	1000

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	13+80	15+50	LT	125
4	-DET-	12+50	13+50	LT	60
			SUBTOTAL		185
		ADDITIONAL PSRM TO BE INSTALLED			0
				TOTAL	185
				SAY	185

DETOUR

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-4/CONST.2-B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2-B

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

NOTE:
UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE – B AND/OR SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

NAD 83

56 x 10 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
4 ft. weir
ID 2-B.1

BEGIN CONSTRUCTION
-DETOUR- PC STA. 10+00.00

-DETOUR- PC Sta. 10+00.00 =
-L- POT Sta. 10+71.58

-L- PC Sta. 11+39.87

-DRI- POT Sta. 10+00.00
-L- POC Sta. 12+34.00

-DETOUR- PRC Sta. 11+54.32

-DETOUR- PRC Sta. 13+94.42

-L- POT Sta. 10+00.00

TEMPORARY (-DRI-) DRIVEWAY TIE

-L- SLOPE STAKES

-DRI- PC Sta. 10+40.00

-DRI- PRC Sta. 11+10.72

-DRI- PT Sta. 11+88.16

END CONSTRUCTION
-DRI- POT Sta. 12+20.00

-DRI- POT Sta. 12+32.48

-DETOUR- PT STA. 15+37.59 =
-L- POT STA. 16+02.05

-L- PT Sta. 14+41.91

16 x 7 x 3
4' weir
ID 2-B.5

24 x 8 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 2-B.2

END CONSTRUCTION
-DETOUR- PT STA. 15+37.59

-L- POT Sta. 17+45.89

DETOUR CULVERT
w/SANDBAG ENDWALL
1 @ 90° CSP

NOTE: 36" CSP TO BE REMOVED W/DETOUR INSTALL 2' STREAM RELOCATION (PER PLANS)

TEMP. LAT BASE DITCH
SEE DETAIL A
EST. DDE _CY

SPECIAL CUT DITCH
SEE DETAIL E
PLAN SHEET 4

SPECIAL LATERAL BASE DITCH
SEE DETAIL D
PLAN SHEET 4

CLASS B RIP RAP
EST. 3 TONS
FILTER FABRIC
EST. 10 SY

CLASS B RIP RAP
EST. TONS
FILTER FABRIC
EST. SY

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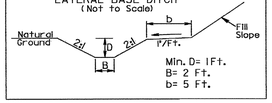
DEBRA McDOWELL PRINCE

CAROL ANN ANDERSON

DETAIL A
LATERAL BASE DITCH
(Not to Scale)



Min. D= 1Ft.
B= 2 Ft.
b= 5 Ft.

-DET- STA.13+00 TO STA.14+65 LT

-DRI-	
PI Sta 10+57.61	PI Sta 11+87.51
Δ = 70° 49' 21.0" (LT)	Δ = 65° 03' 44.0" (RT)
D = 114° 35' 29.6"	D = 114° 35' 29.6"
L = 61.80'	L = 56.78'
T = 35.55'	T = 31.89'
R = 50.00'	R = 50.00'
SE = NC	SE = NC

NOTES:
1) FOR -L- PLAN VIEW SEE SHEET 4.
2) FOR -L- PROFILE SEE SHEET 5.
3) FOR -DETOUR- PROFILE SEE SHEET 5.
4) FOR -DRI- PLAN VIEW SEE SHEET 4.
5) FOR -DRI- PROFILE SEE SHEET 5.
6) ALL DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED.

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-5/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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.

DESIGN EXCEPTIONS FOR VERTICAL ALIGNMENT AND VERTICAL STOPPING SIGHT DISTANCE ARE REQUIRED.

BEGIN TIP PROJECT B-3856
-L- POT STA. 10+00.00

NAD 83

30 x 9 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
4 ft. weir
ID 4.4

28 x 8 x 3
ID 4.5

26 x 10 x 3
ID 4.1

-DETOUR- PC Sta. 10+00.00 =
-L- POT Sta. 10+71.58

-L- PC Sta. 11+39.87

-DETOUR- PRC Sta. 11+54.32
-DRI- POT Sta. 10+00.00
-L- POT Sta. 12+34.00

-DETOUR- PRC Sta. 13+94.42

BEGIN CULVERT
-L- STA. 13+53.00 +/-

END CULVERT
-L- STA. 13+77.00 +/-

-DRI- PC Sta. 10+40.00

-DRI- PRC Sta. 11+10.72

-DRI- PT Sta. 11+88.16

END CONSTRUCTION
-DRI- POT Sta. 12+20.00

-DRI- POT Sta. 12+32.48

-L- PT Sta. 14+41.92

-L- POT Sta. 16+02.05 =
-DETOUR- PT STA. 15+37.59

-L- POT Sta. 17+45.89

END TIP PROJECT B-3856
-L- POT STA. 17+38.00

-DRI-	
PI Sta 10+78.71	PI Sta 11+53.94
Δ = 57° 53' 05.3" (LT)	Δ = 63° 23' 04.0" (RT)
D = 81° 51' 04.0"	D = 81° 51' 04.0"
L = 70.72'	L = 77.44'
T = 38.71'	T = 43.22'
R = 70.00'	R = 70.00'
SE = NC	SE = NC

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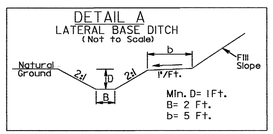
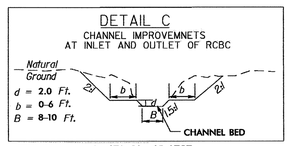
DETAIL A
LATERAL BASE DITCH
(Not to Scale)



Min. D= 1Ft.
B= 2 Ft.
b= 5 Ft.

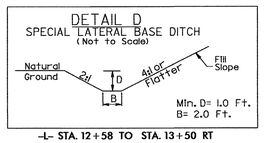
-L- STA.13+80 TO STA.15+50 LT

DETAIL C
CHANNEL IMPROVEMNETS
AT INLET AND OUTLET OF RCBC



-L- STA 13+65 LT/RT

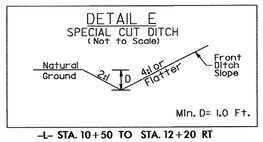
DETAIL D
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D= 1.0 Ft.
B= 2.0 Ft.

-L- STA. 12+58 TO STA. 13+50 RT

DETAIL E
SPECIAL CUT DITCH
(Not to Scale)



Min. D= 1.0 Ft.

-L- STA. 10+50 TO STA. 12+20 RT

NOTES:

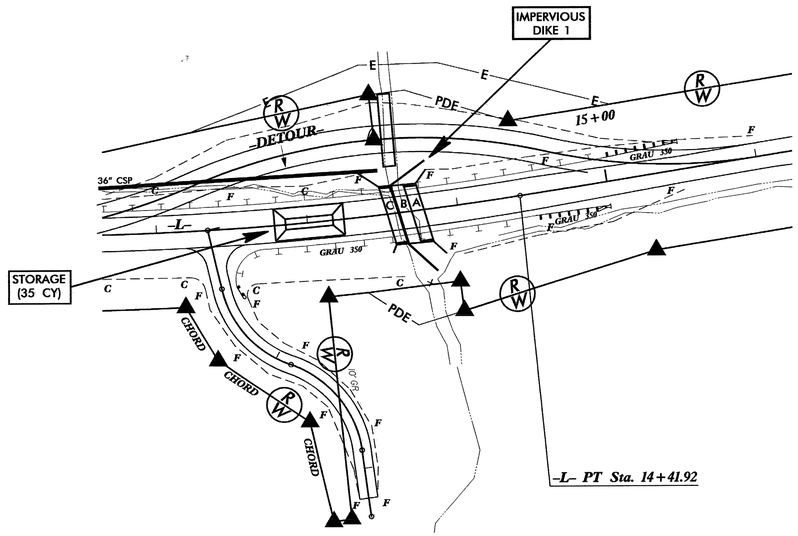
1) FOR -L- PROFILE SEE SHEET 5.
2) FOR -DRI- PROFILE SEE SHEET 5.
3) FOR -DETOUR- PLAN VIEW SEE SHEET 2-B.
4) FOR -DETOUR- PROFILE SEE SHEET 5.
5) ALL DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED.
6) FOR CULVERT PLANS SEE SHEET C-1 THRU ?.

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-6/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 13+65 –L–

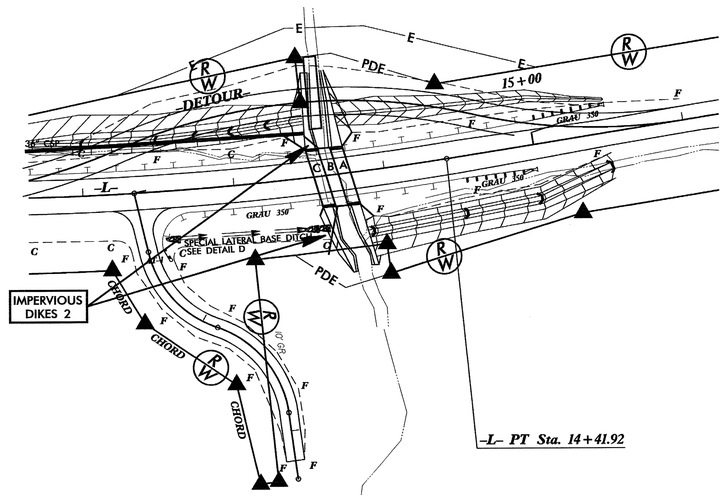
PHASE 1

1. INSTALL TEMPORARY 36 IN. CSP AND DETOUR CULVERT (90 CSP).
2. CONSTRUCT DETOUR AND REROUTE TRAFFIC.
3. CONSTRUCT STILLING BASIN (35 CY).
4. INSTALL IMPERVIOUS DIKE 1 AND CONSTRUCT CULVERT BARRELS A AND B.



PHASE 2

5. REMOVE IMPERVIOUS DIKE 1 AND INSTALL IMPERVIOUS DIKES 2, DIVERTING WATER THROUGH BARRELS A AND B.
6. CONSTRUCT CULVERT BARREL C.
7. REMOVE IMPERVIOUS DIKES 2 AND DIVERT TOTAL FLOW THROUGH RCBC.
8. REMOVE TEMPORARY 36 IN. CSP AND MAKE CHANNEL IMPROVEMENTS.
9. COMPLETE ROADWAY AND INSTALL STREAM RELOCATIONS.



DETOUR

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-7/CONST.2-B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE – B AND/OR SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

24 x 7 x 3
1.5 inch Skimmer with 0.75 inch Orifice Diameter
4 ft. weir
ID 2–B.2a

56 x 10 x 3
1.5 inch Skimmer with 1.375 inch Orifice Diameter
4 ft. weir
ID 2–B.1

24 x 8 x 3
1.5 inch Skimmer with 0.75 inch Orifice Diameter
4 ft. weir
ID 2–B.2

NAD 83

BEGIN CONSTRUCTION
–DETOUR– PC STA. 10+00.00

–DETOUR– PC Sta. 10+00.00 =
–L– POT Sta. 10+71.58

–L– PC Sta. 11+39.87

–DRI– POT Sta. 10+00.00
–L– POC Sta. 12+34.00

–DETOUR– PRC Sta. 11+54.32

–DETOUR– PRC Sta. 13+94.42

–L– POT Sta. 10+00.00

–L– SLOPE STAKES

TEMPORARY (–DRI–) DRIVEWAY TIE

–DRI– PC Sta. 10+40.00

–DRI– PRC Sta. 11+10.72

–DRI– PT Sta. 11+88.16

END CONSTRUCTION
–DRI– POT Sta. 12+20.00

–DRI– POT Sta. 12+32.48

–DETOUR– PT STA. 15+37.59 =
–L– POT STA. 16+02.05

–L– PT Sta. 14+41.91

–L– POT Sta. 17+45.89

END CONSTRUCTION
–DETOUR– PT STA. 15+37.59

DETOUR CULVERT w/SANDBAG ENDWALL
1 @ 90° CSP

NOTE: 36" CSP TO BE REMOVED W/DETOUR INSTALL 2" STREAM RELOCATION (PER PLANS)

TEMP. LAT BASE DITCH SEE DETAIL A EST. DDE _CY

SPECIAL CUT DITCH SEE DETAIL E PLAN SHEET 4

SPECIAL LATERAL BASE DITCH/A SEE DETAIL D PLAN SHEET 4

CLASS B RIP RAP EST. 3 TONS FILTER FABRIC EST. 10 SY

CLASS B RIP RAP EST. TONS FILTER FABRIC EST. SY

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MISTY L. McDOWELL

FRADY FAMILY LIMITED PARTNERSHIP

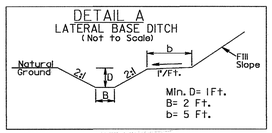
PEARL LANE SR 1238 18' BST

CRAIG CREEK ROAD SR 1127

N 9° 35' 20.0" E

N 18° 14' 31.0" E

DETAIL A
LATERAL BASE DITCH
(Not to Scale)



–DET– STA.13+00 TO STA.14+65 LT

–DRI–	
PI Sta 10+57.61	PI Sta 11+87.51
Δ = 70° 49' 21.0" (LT)	Δ = 65° 03' 44.0" (RT)
D = 114° 35' 29.6"	D = 114° 35' 29.6"
L = 61.80'	L = 56.78'
T = 35.55'	T = 31.89'
R = 50.00'	R = 50.00'
SE = NC	SE = NC

NOTES:
1) FOR –L– PLAN VIEW SEE SHEET 4.
2) FOR –L– PROFILE SEE SHEET 5.
3) FOR –DETOUR– PROFILE SEE SHEET 5.
4) FOR –DRI– PLAN VIEW SEE SHEET 4.
5) FOR –DRI– PROFILE SEE SHEET 5.
6) ALL DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED.

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-8/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DESIGN EXCEPTIONS FOR VERTICAL ALIGNMENT AND VERTICAL STOPPING SIGHT DISTANCE ARE REQUIRED.

30 x 9 x 3 1.5 inch Skimmer with 1.0 inch Orifice Diameter 4 ft. weir ID 4.4

Place Matting for Erosion Control on Slope as Work Allows.

NAD 83

BEGIN TIP PROJECT B-3856
-L- POT STA. 10+00.00

-DETOUR- PC Sta. 10+00.00 =
-L- POT Sta. 10+71.58

-L- PC Sta. 11+39.87

-DETOUR- PRC Sta. 11+54.32
-DRI- POT Sta. 10+00.00
-L- POT Sta. 12+34.00

-DETOUR- PRC Sta. 13+94.42

BEGIN CULVERT
-L- STA. 13+53.00+/-

END CULVERT
-L- STA. 13+77.00 +/-

-L- PT Sta. 14+41.92

-L- POT STA. 16+02.05 =
-DETOUR- PT STA. 15+37.59

-L- POT Sta. 17+45.89 DANIEL E. PRINCE, DEBRA McDOWELL PRINCE

END TIP PROJECT B-3856
-L- POT STA. 17+38.00

-DRI- PC Sta. 10+40.00

-DRI- PRC Sta. 11+10.72

-DRI- PT Sta. 11+88.16

END CONSTRUCTION
-DRI- POT Sta. 12+20.00

-DRI- POT Sta. 12+32.48

CHARLES A. BARKER, Jr.
EVELYN M. BARKER

JAMES R. McDOWELL
JUANITA COLE McDOWELL

DANIEL N. McDOWELL
MISTY L. McDOWELL

FRADY FAMILY LIMITED PARTNERSHIP

CLYDE E. KNIGHT
LINDA A. KNIGHT

FRED W. FEW, Jr.
JUDI C. FEW

ROBERT D. KRILL
MICHELLE L. KRILL

TOSHI COGGINS

CAROL ANN ANDERSON

CHANNEL IMPROVEMENTS SEE DETAIL C EST. DDE 270 CY

DETOUR SLOPE STAKES

ROCK CROSS VANE (RCV) SEE SHEET 2-D FOR DETAIL AND LOCATIONS OF RCV

STREAM RELOC. SEE SHEET 2-C

2' LATERAL BASE DITCH SEE DETAIL A EST. DDE CY

SPECIAL CUT DITCH SEE DETAIL E

SPECIAL LATERAL BASE DITCH SEE DETAIL D

CLASS B RIP RAP EST. 3 TONS FILTER FABRIC EST. 10 SY

CLASS B RIP RAP EST. TONS FILTER FABRIC EST. __ SY

CHANNEL IMPROVEMENTS SEE DETAIL C EST. DDE 350 CY

TIE TO EXISTING DITCHLINE

3@8' X 8' RCBC

30"CMP

18"CMP

24" CREEK

24" CMP

24" ROCK WALL

12" ROCK WALL

ROCK STEPS

36" CONC WALK

30' CONC WALK

BRICK STEPS

BRICK HW

ELECTRO STATIC BOX

CRAB CREEK ROAD SR 1127

PEARL LANE SR 1238 18' BST

EXISTING R/W

SATELLITE DISH

WD FENCE

WD DECK

DRAIN FIELD

SEPTIC

HTR

ISBKD

ISF BUS

GR

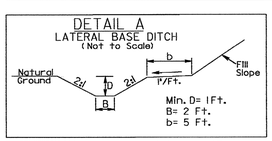
SOIL

-DRI-

PI Sta 10+78.71	PI Sta 11+53.94
Δ = 57° 53' 05.3" (LT)	Δ = 63° 23' 04.0" (RT)
D = 81° 51' 04.0"	D = 81° 51' 04.0"
L = 70.72'	L = 77.44'
T = 38.71'	T = 43.22'
R = 70.00'	R = 70.00'
SE = NC	SE = NC

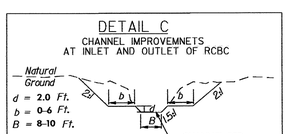
15x 5 x 3 ID 4.1

DETAIL A
LATERAL BASE DITCH
(Not to Scale)



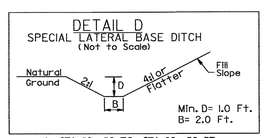
-L- STA.13+80 TO STA.15+50 LT

DETAIL C
CHANNEL IMPROVEMNETS
AT INLET AND OUTLET OF RCBC



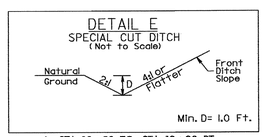
-L- STA 13+65 LT/RT

DETAIL D
SPECIAL LATERAL BASE DITCH
(Not to Scale)



-L- STA. 12+58 TO STA. 13+50 RT

DETAIL E
SPECIAL CUT DITCH
(Not to Scale)



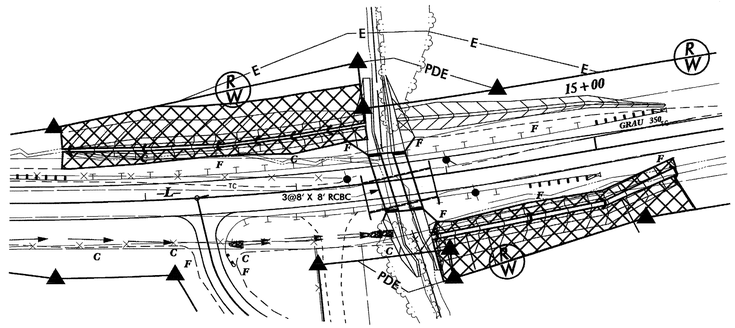
-L- STA. 10+50 TO STA. 12+20 RT

NOTES:

1) FOR -L- PROFILE SEE SHEET 5.
2) FOR -DRI- PROFILE SEE SHEET 5.
3) FOR -DETOUR- PLAN VIEW SEE SHEET 2-B.
4) FOR -DETOUR- PROFILE SEE SHEET 5.
5) ALL DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED.
6) FOR CULVERT PLANS SEE SHEET C-1 THRU ?.

PROJECT REFERENCE NO.	SHEET NO.
B-3856	EC-9/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

0.3 ACRE STREAMBANK REFORESTATION



SEE RF–1, RF–2, AND PROJECT SPECIAL PROVISIONS