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PROJECT: R-5703

TIP P

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5703	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
46375.1.1		PE
46375.2.1		R/W

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

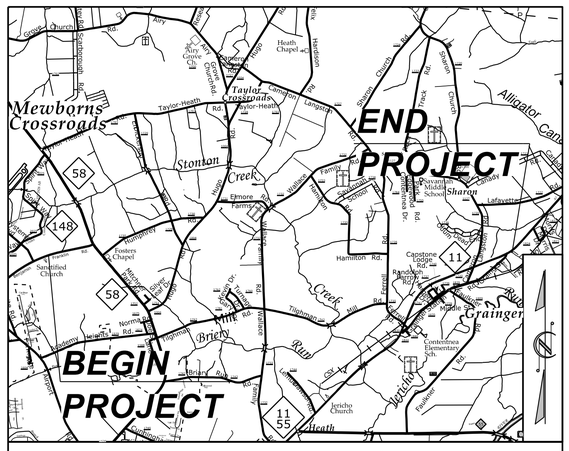
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LENOIR COUNTY

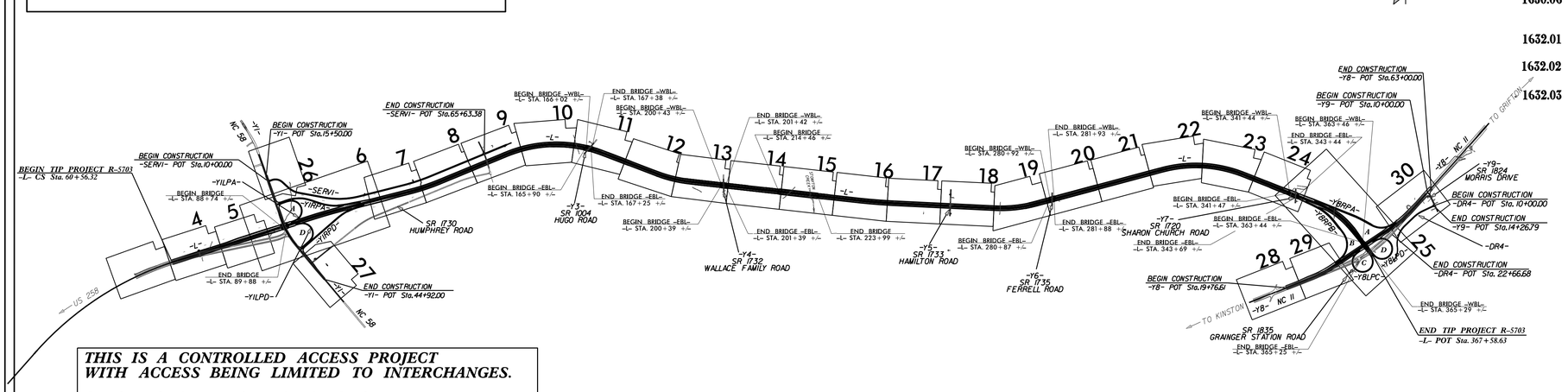
LOCATION: FROM THE INTERSECTION OF C.F. HARVEY PARKWAY AND NC 58 TO INTERSECTION OF NC 11 AND GRAINGER STATION RD.

TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURES AND SIGNALS.

See Sheet 1-A For Index of Sheets



VICINITY MAP



THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
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	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	EW CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
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	
1630.06	Special 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	
	Infiltration Basin	

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

50 25 0 50 100

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared in the Office of:

SUNGATE DESIGN GROUP, P.A.

905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

Designed by:

WILLIAM T. PERRY, EI ***#3899***

NAME *LEVEL III CERTIFICATION NO.*

Reviewed in the Office of:

ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

Reviewed by:

JEREMY GOODWIN, PE, CPESC, CPSWQ

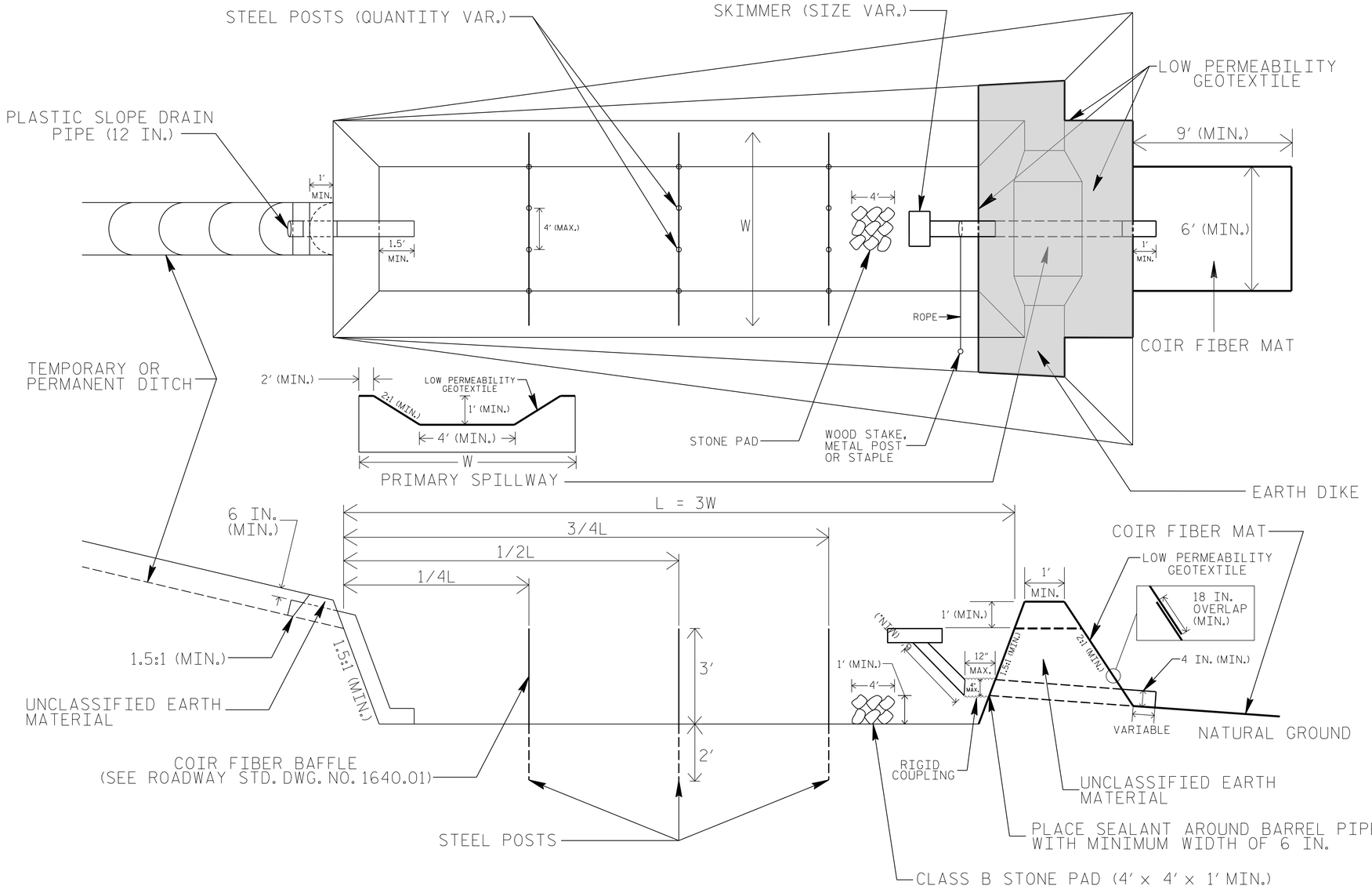
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

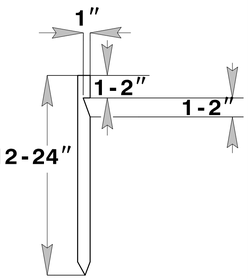
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

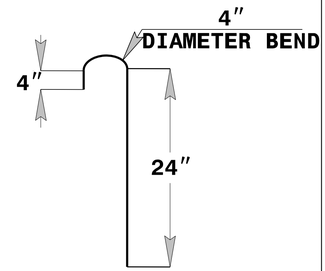
SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



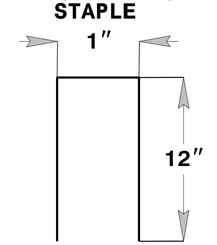
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

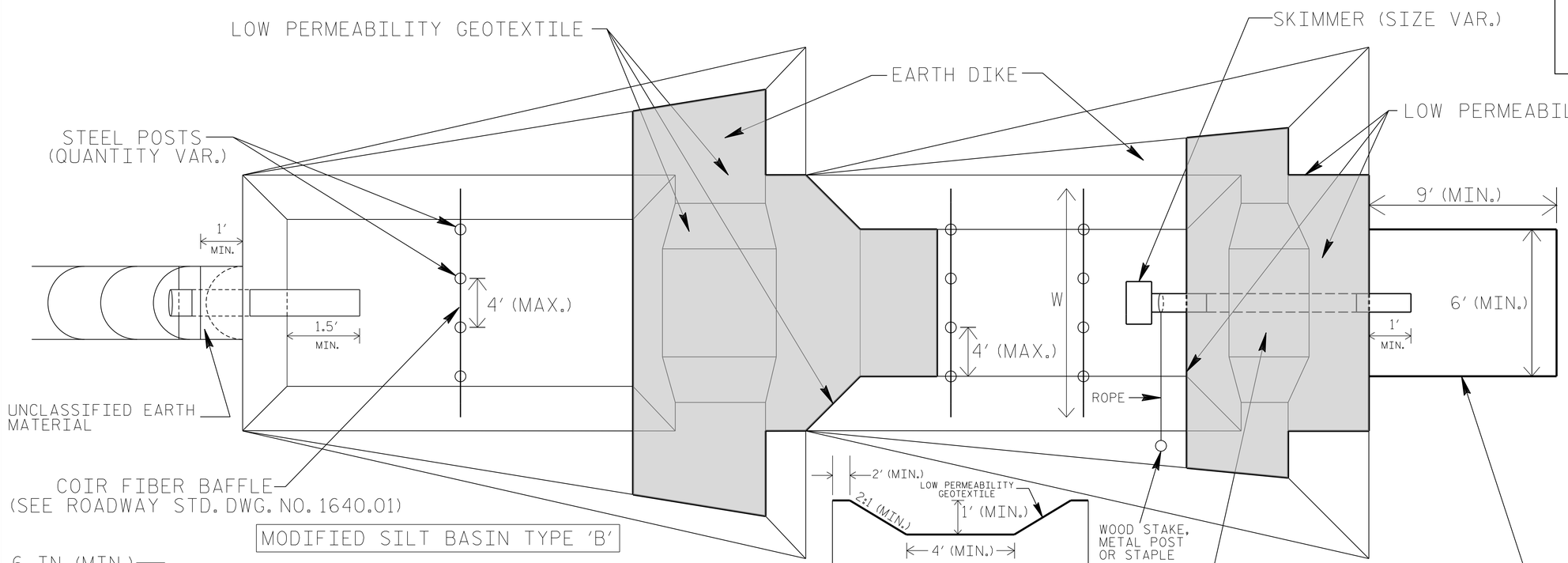
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

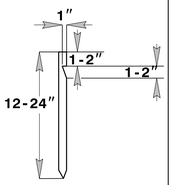
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

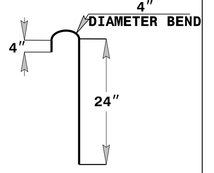
TIERED SKIMMER BASIN DETAIL (EAST)



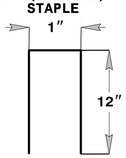
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

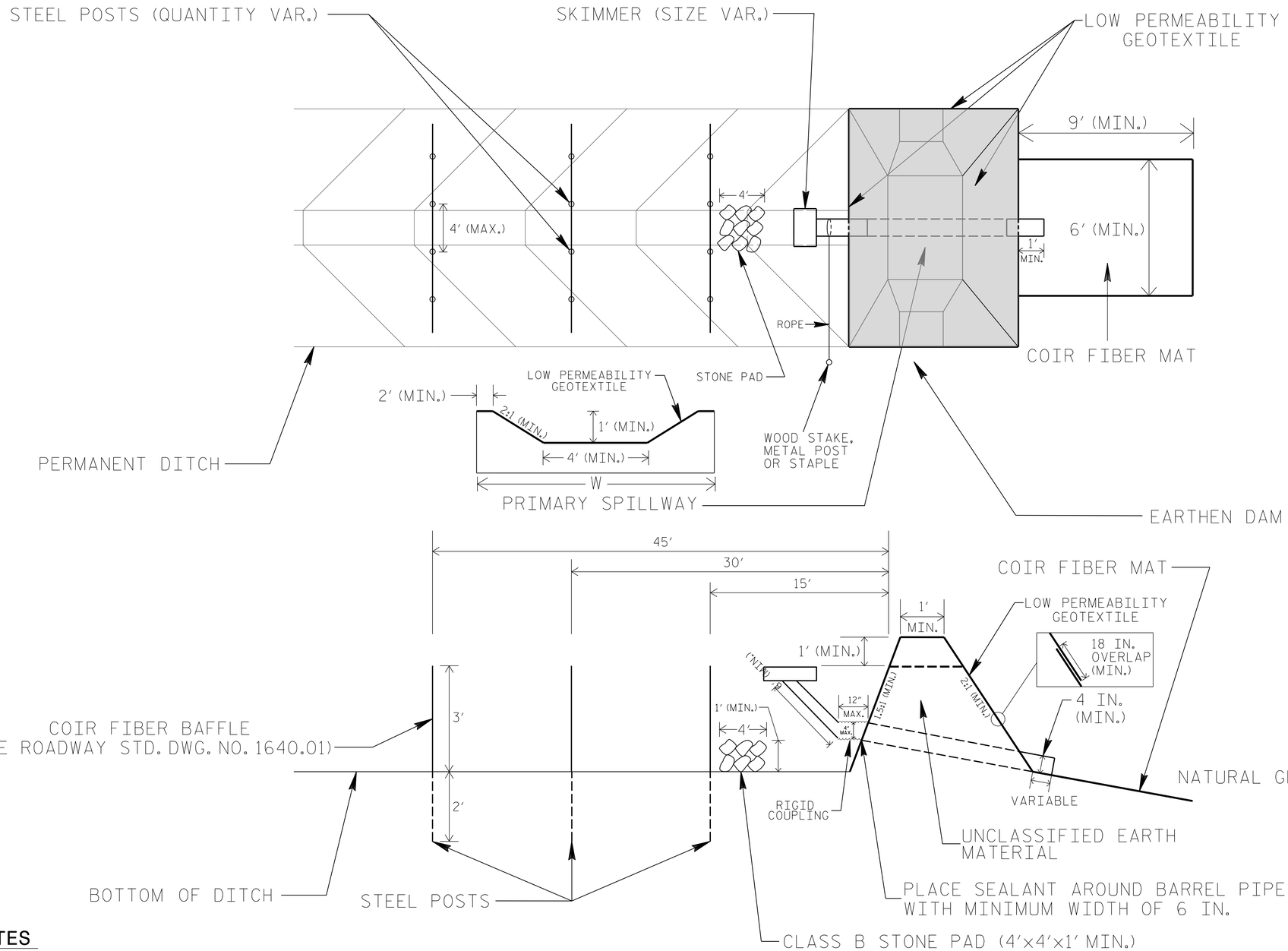
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE PRIMARY SPILLWAY WEIR LENGTHS (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

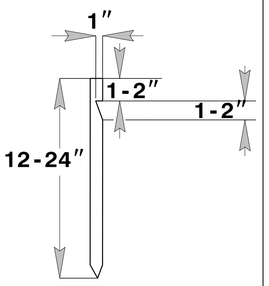
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

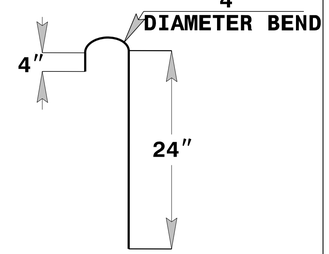
EARTHEN DAM WITH SKIMMER DETAIL (EAST)



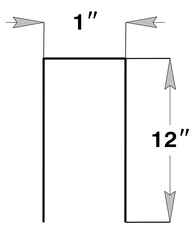
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

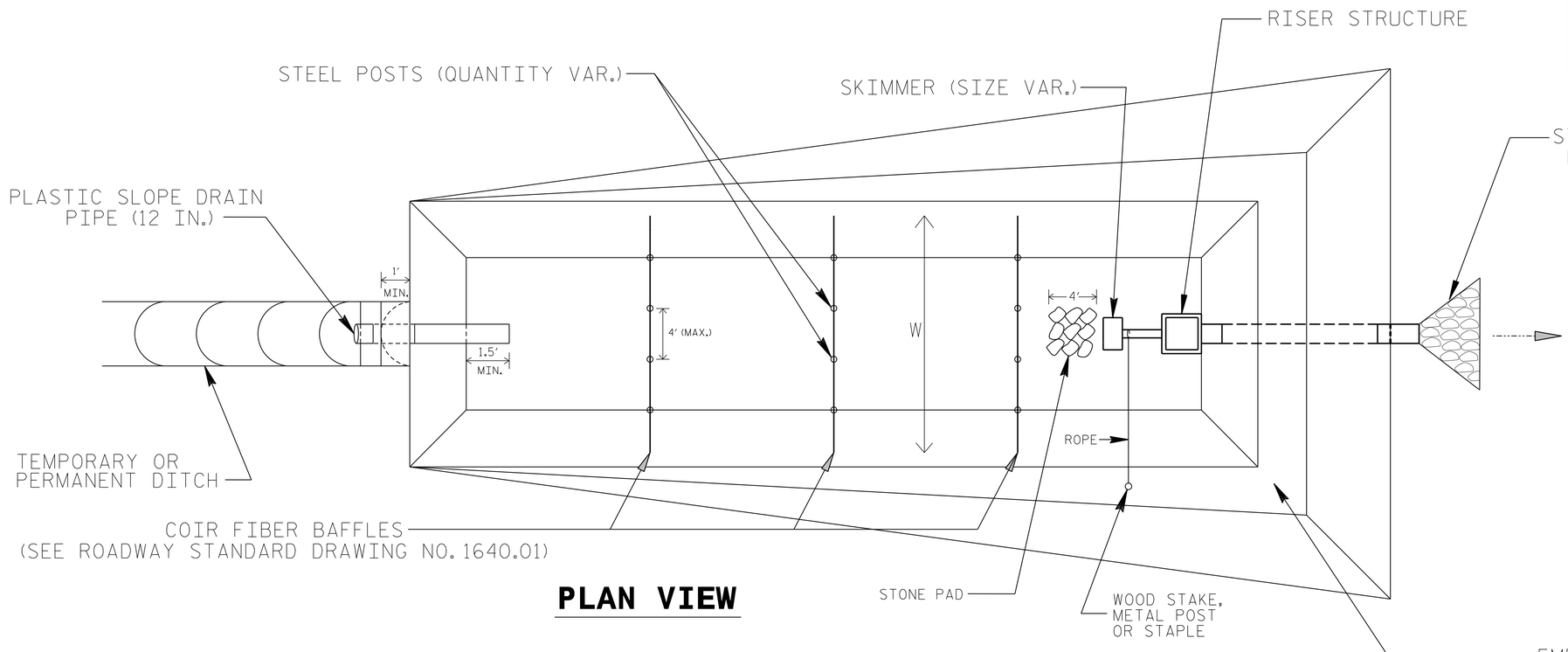
NOTES

1. LIMIT EARTHEN DAM HEIGHT TO 5 FT.
2. DETERMINE PRIMARY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
3. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

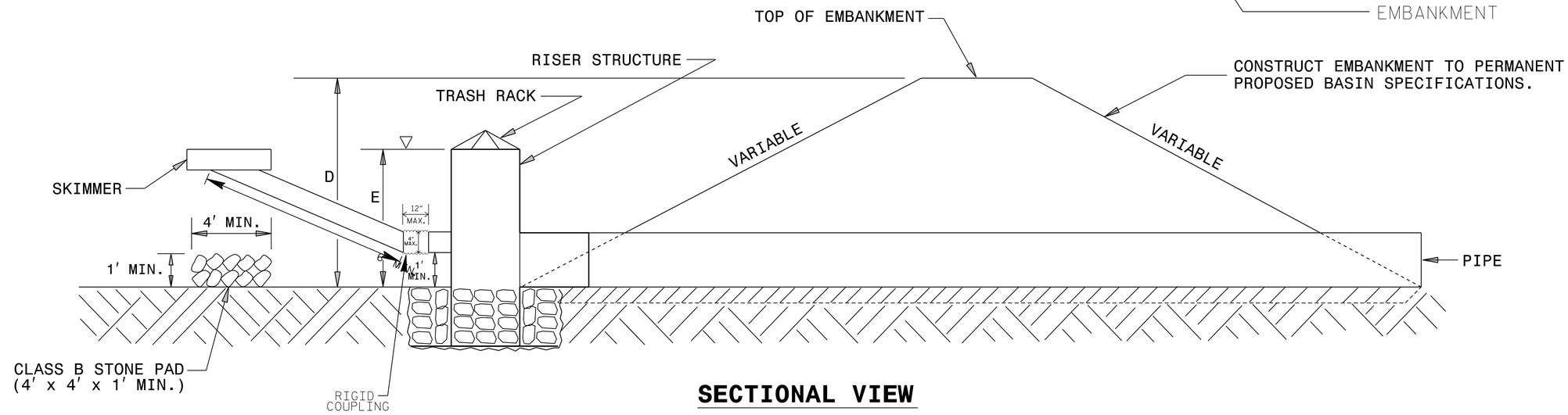
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STORMWATER BASIN WITH SKIMMER



PLAN VIEW



SECTIONAL VIEW

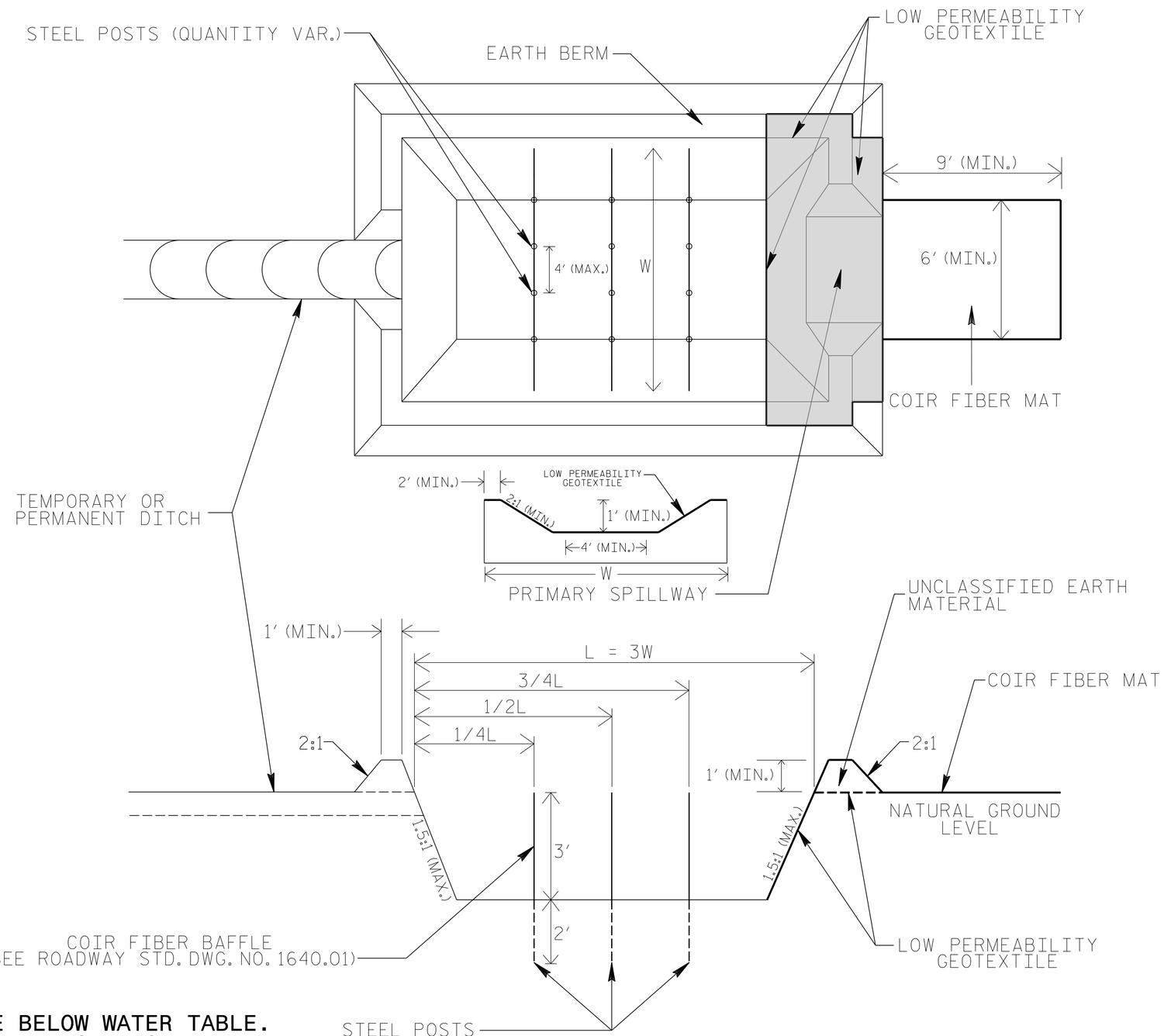
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. INSTALL A MINIMUM OF 3 COIR FIBER BAFFLES IN ACCORDANCE WITH ROADWAY STD. DRAWING 1640.01.
3. INSTALL SKIMMER AND COUPLING TO RISER STRUCTURE OR DIRECTLY INTO EMBANKMENT 1 FT. FROM BOTTOM OF BASIN.
4. THE ARM PIPE SHALL HAVE A MINIMUM LENGTH OF 6 FT. BETWEEN THE SKIMMER AND COUPLING.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. THE DIFFERENCE BETWEEN LENGTHS "D" AND "E" REPRESENT THE FREEBOARD AND SHOULD BE 1 FT. MINIMUM.

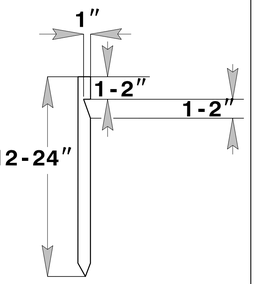
NOT TO SCALE

INFILTRATION BASIN WITH BAFFLES DETAIL (EAST)

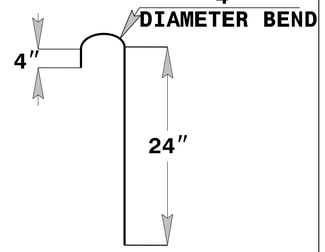
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-2D
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



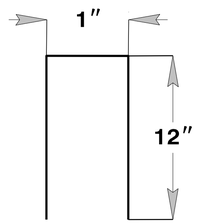
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

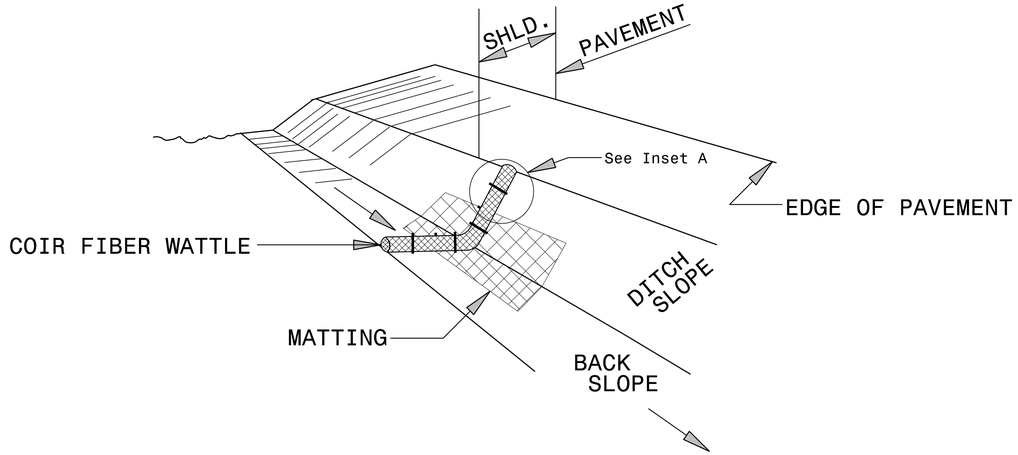
NOTES

1. DO NOT EXCAVATE BELOW WATER TABLE.
2. LIMIT EARTH BERM HEIGHT TO 3 FT.
3. AVOID COMPACTING BOTTOM OF BASIN.
4. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
5. DETERMINE PRIMARY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

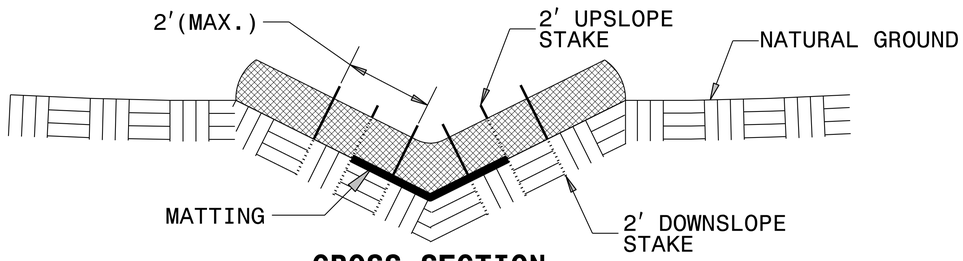
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-2E
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

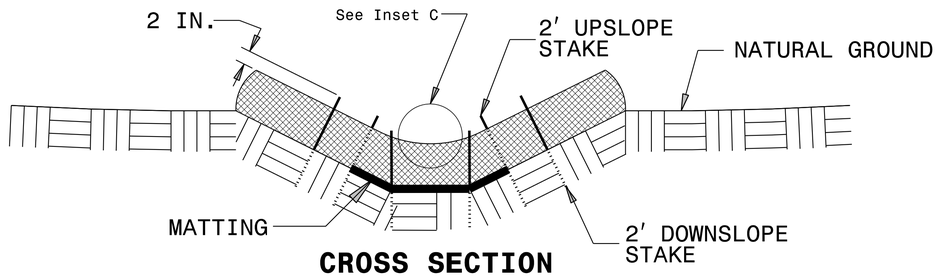
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

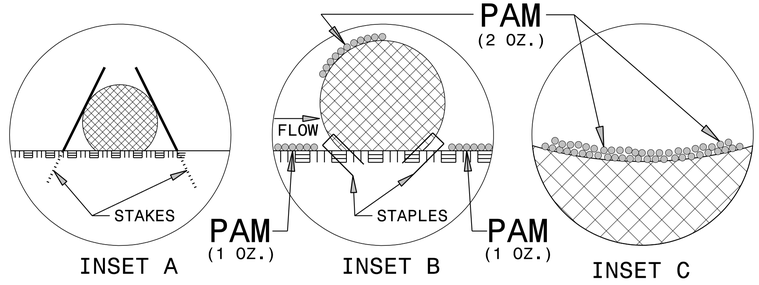
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

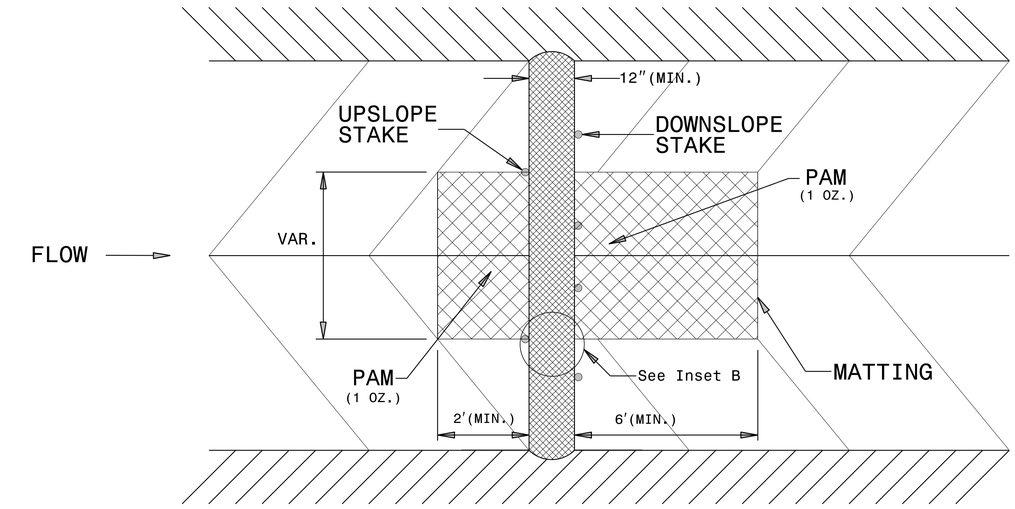
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

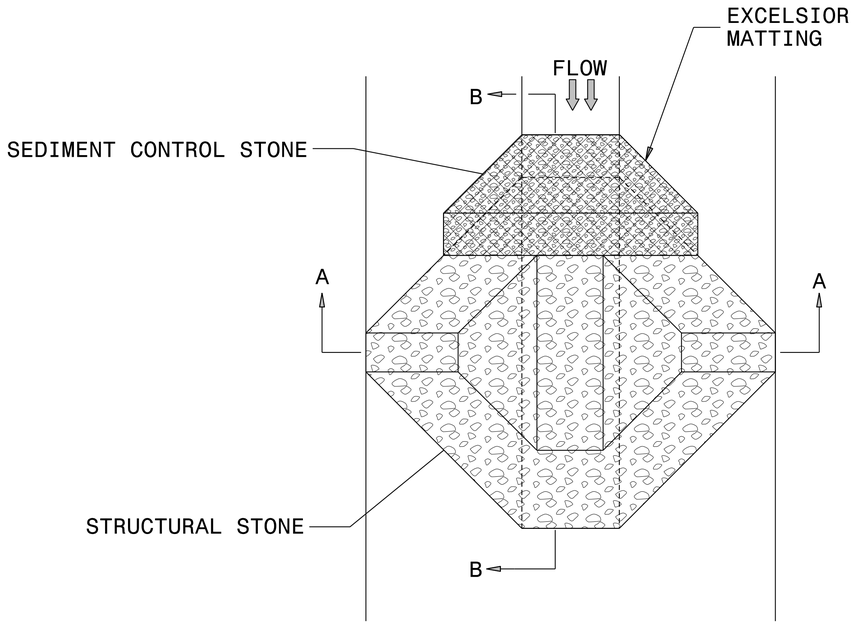




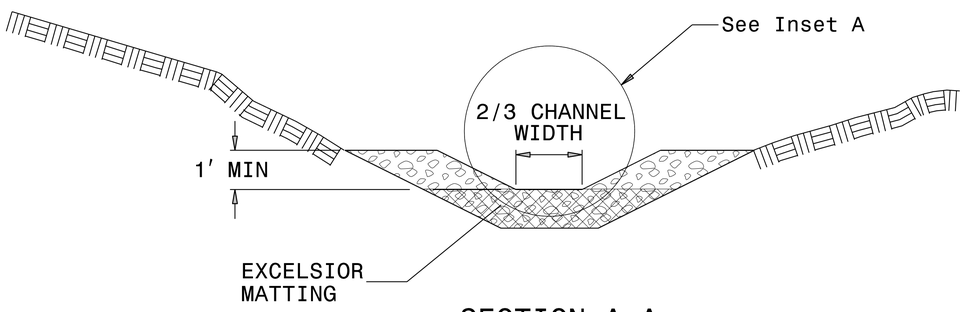
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-2F
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



SECTION A-A

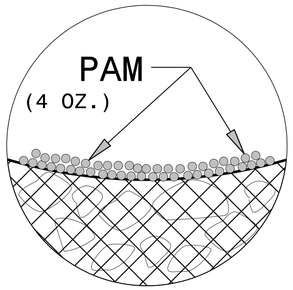
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

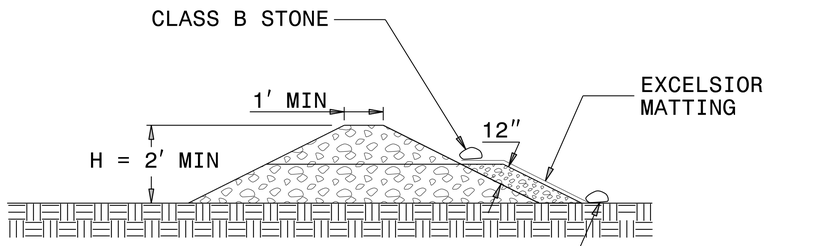
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION B-B

NOT TO SCALE

BORROW PIT DEWATERING BASIN DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

GENERAL NOTES:

DETERMINE BORROW PIT DEWATERING BASIN SIZE USING V = 8.0203 * Q * T, WHERE V IS VOLUME (FT^3), Q IS PUMP FLOW RATE (GPM), AND T IS DEWATERING TIME (HR). USE MAXIMUM FLOW RATE OF 1000 GPM AND A MINIMUM DEWATERING TIME OF 2 HOURS.

RISER SHALL BE A NON-PERFORATED, SMOOTH OR CORRUGATED MATERIAL WITH A FLASHBOARD OPTION.

CONSTRUCT THE COIR FIBER BAFFLE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1640.01 AND WITH MATERIAL THAT MEETS THE SPECIFICATIONS OF ROADWAY STANDARD 1640-14.

PROVIDE 5′ STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 3′ OF THE POST APPEARING ABOVE THE GROUND.

ATTACH THE COIR FIBER MAT TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE BOTTOM AND SIDE SLOPES OF THE BASIN WITH 12″ STAPLES.

INSTALL TYPE 2 GEOTEXTILE ON SIDESLOPES AND BOTTOM OF BASIN AT INLET AS SHOWN IN THE DETAIL.

USE THE TYPICAL SECTION SHOWN FOR THE BORROW PIT DEWATERING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A NON-PERFORATED RISER.

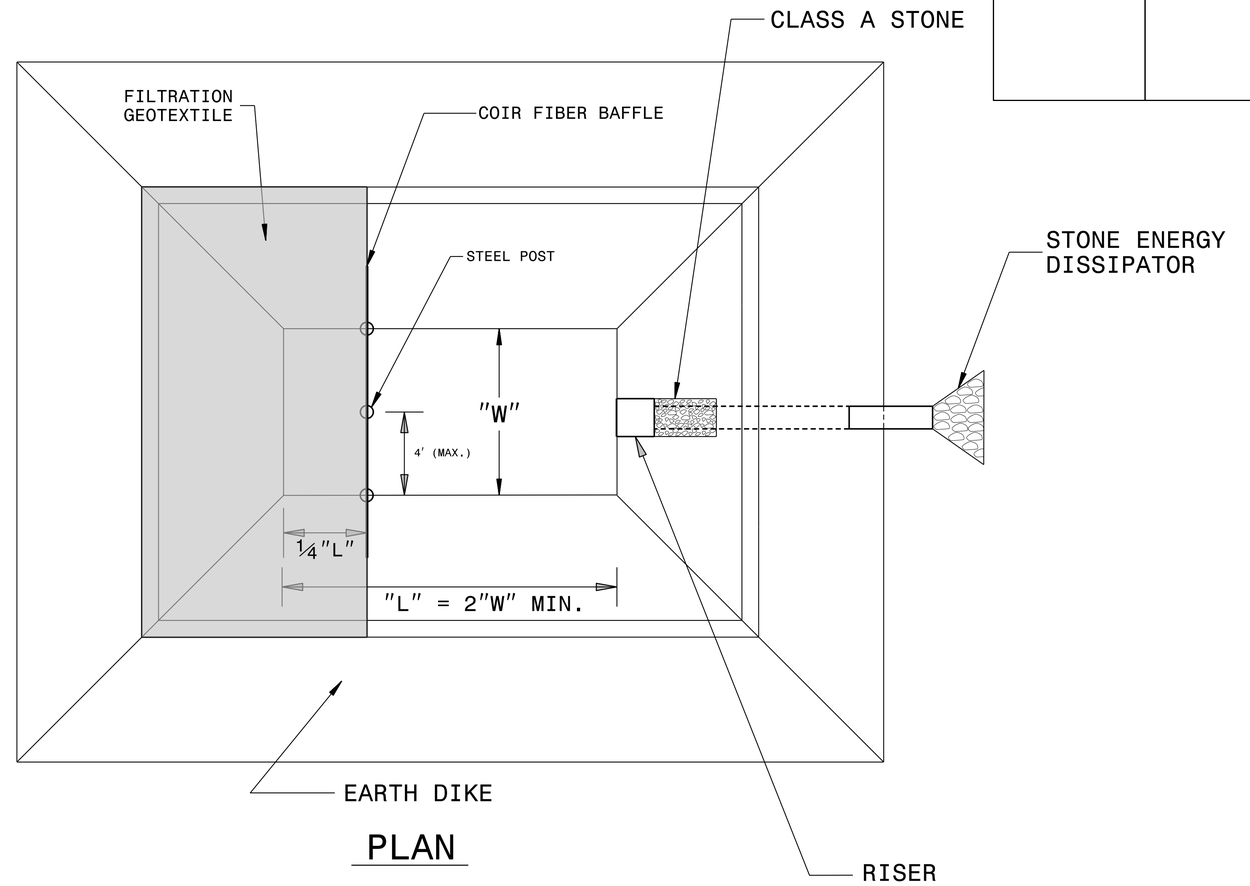
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

THE BORROW PIT DEWATERING BASIN SIZE IS VARIABLE AND DEPENDENT ON SPECIFIC SITE REQUIREMENTS AS WELL AS PROPOSED CONSTRUCTION OPERATIONS.

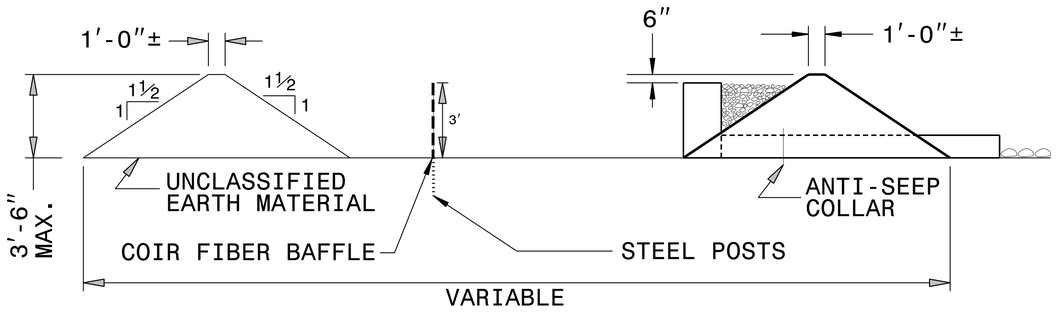
SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

PUMP THE EFFLUENT INTO THE BORROW PIT DEWATERING BASIN TO A MAXIMUM DEPTH OF 6 IN. BELOW TOP OF EARTH DIKE.

PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



PLAN



TYPICAL SECTION VIEW

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5703	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-	67+60	70+92	LT	550
5	-L-	76+13.02	85+00	MED	2375
6	-L-	90+00	90+80	RT	115
6	-L-	95+36	96+00	LT	120
6	-L-	85+00	88+70.41	MED	995
6	-L-	90+00	111+00	MED	5625
6	-L-	102+00	103+00	LT	225
6	-L-	92+27	--	LT	70
6	-Y1-	24+50	26+86	LT	380
6	-Y1RPA-	25+50	26+00	LT	110
6	-Y1RPA-	27+02	30+40	RT	480
6	-Y1RPD-	25+50	26+51	LT	230
6	-Y1RPD-	26+51	27+51	LT	225
6	-Y1RPD-	26+76	27+58	RT	130
6	-Y1RPD-	26+61.8	--	LT	190
6	-Y1LPD-	16+00	18+39	RT	365
9	-L-	139+13.6	144+50	LT	835
9	-SERV1-	68+50	69+21	LT	90
9	-SERV1-	69+21	71+37	LT	420
9	-SERV1-	69+50	71+40	RT	320
9	-SERV1-	66+36.87	69+50	RT	505
9	-SERV1-	66+36.87	68+50	LT	345
10	-L-	155+06.9	163+00	MED	2125
11	-L-	163+00	165+95.3	MED	795
11	-L-	167+69.1	176+00	MED	2225
12	-L-	179+50	182+00	LT	460
13	-L-	187+58	190+50	LT	605
13	-L-	190+50	193+64	LT	625
13	-L-	189+50	193+66	RT	595
13	-L-	189+00	197+41	MED	2255

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
13	-L-	201+41.4	202+00	MED	160
13	-L-	193+81	--	RT	40
14	-L-	211+54	213+50	LT	355
14	-L-	202+00	211+77.8	MED	2620
14	-L-	208+18	--	RT	130
17	-L-	249+74	--	RT	80
19	-L-	268+47	269+50	RT	195
19	-L-	268+54	272+50	LT	245
19	-L-	272+50	279+00	LT	1120
19	-L-	268+74.6	280+00	MED	3015
20	-L-	280+00	280+88.4	MED	240
20	-L-	284+29	293+00	MED	2335
23	-L-	319+50	321+00	LT	255
23	-L-	324+75	328+02	RT	510
24	-L-	338+24.9	341+29.3	MED	815
24	-L-	344+00	345+00	MED	270
25	-L-	365+50	366+00	MED	135
25	-L-	353+00	354+50	MED	340
25	-L-	366+29	--	RT	695
25	-Y8-	35+74.9	49+00	MED	3550
25	-Y8-	43+00	45+50	LT	565
25	-Y8-	48+48	--	RT	250
25	-Y8RPA-	24+59	27+13	RT	430
25	-Y8RPA-	24+59	27+13	LT	430
25	-Y8RPB-	11+25.28	13+25.05	RT	325
25	-Y8RPB-	26+00	26+28	RT	25
25	-Y8RPB-	14+69	19+78	LT	1145
25	-Y8RPB-	13+25.05	18+59	RT	845
25	-Y8LPC-	20+29	21+17	LT	200
25	-Y8LPD-	11+91.44	13+12	RT	130

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-3A
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)
25	-Y8LPD-	14+00	16+00	RT	250
25	-Y8LPD-	19+40	22+78	RT	290
26	-SERV1-	10+50	11+89.91	RT	225
26	-Y1-	15+50	16+43	RT	210
27	-Y1-	37+71	38+21	RT	85
27	-Y1-	38+21	38+71	RT	85
29	-Y8-	26+50	28+50	LT	365
29	-Y8-	27+74	29+50	RT	315
29	-Y8-	28+50	30+50	LT	310
30	-Y8-	48+50	51+25	LT	460
30	-Y8-	60+00	61+00	RT	170
30	-Y8-	48+50	52+00	RT	470
30	-Y8-	49+00	63+00	MED	3750
30	-Y8-	51+50	63+00	LT	3080
30	-Y9-	10+78	11+50	LT	130
30	-DR4-	10+50	12+00	RT	125
30	-DR4-	10+50	11+50	LT	85
			SUBTOTAL		56,240
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					421,090
			TOTAL		477,330
			SAY		477,350

PERMANENT SOIL REINFORCEMENT MAT

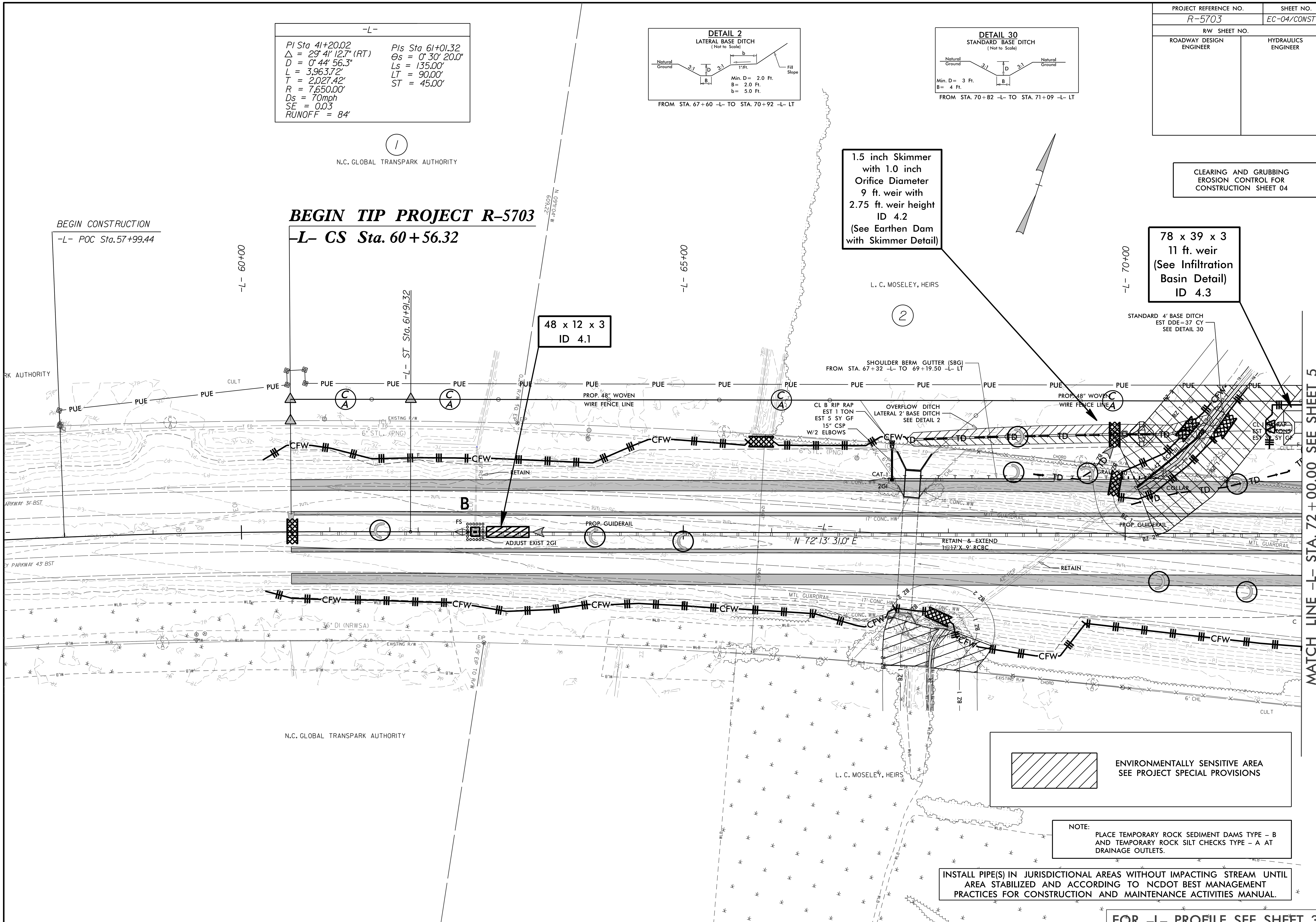
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
25	-Y8-	45+50	47+00	LT	245
25	-Y8-	46+50	48+09	RT	245
25	-Y8RPA-	27+13	27+63	RT	90
25	-Y8RPA-	27+13	28+12	LT	145
25	-Y8RPA-	28+12	29+03.59	LT	150
27	-Y1-	38+41.3	--	RT	65
30	-DR4-	19+00	22+00	LT	485
30	-DR4-	19+50	22+00	RT	405
			SUBTOTAL		1,830
		ADDITIONAL PSRM TO BE INSTALLED			--
			TOTAL		1,830
			SAY		2,000

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-3B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.


PROJECT REFERENCE NO.
R-5703
SHEET NO.
EC-04/CONST.04
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 04
-L-
PI Sta 41+20.02
Δ = 29° 41' 12.7" (RT)
D = 0° 44' 56.3"
L = 3,963.72'
T = 2,027.42'
R = 7,650.00'
Ds = 70mph
SE = 0.03
RUNOFF = 84'
PIs Sta 61+01.32
Θs = 0° 30' 20.0"
Ls = 135.00'
LT = 90.00'
ST = 45.00'
DETAIL 2
LATERAL BASE DITCH
(Not to Scale)
Min. D = 2.0 Ft.
B = 2.0 Ft.
b = 5.0 Ft.
FROM STA. 67+60 -L- TO STA. 70+92 -L- LT
DETAIL 30
STANDARD BASE DITCH
(Not to Scale)
Min. D = 3 Ft.
B = 4 Ft.
FROM STA. 70+82 -L- TO STA. 71+09 -L- LT
N.C. GLOBAL TRANSPARK AUTHORITY
BEGIN TIP PROJECT R-5703
-L- CS Sta. 60+56.32
BEGIN CONSTRUCTION
-L- POC Sta.57+99.44
1.5 inch Skimmer with 1.0 inch Orifice Diameter 9 ft. weir with 2.75 ft. weir height ID 4.2 (See Earthen Dam with Skimmer Detail)
78 x 39 x 3 11 ft. weir (See Infiltration Basin Detail) ID 4.3
48 x 12 x 3 ID 4.1
L. C. MOSELEY, HEIRS
STANDARD 4' BASE DITCH EST DDE=37 CY SEE DETAIL 30
SHOULDER BERM GUTTER (SBG) FROM STA. 67+32 -L- TO 69+19.50 -L- LT
CL B RIP RAP EST 1 TON EST 5 SY GF 15" CSP W/2 ELBOWS
OVERFLOW DITCH LATERAL 2' BASE DITCH SEE DETAIL 2
PROP. 48" WOVEN WIRE FENCE LINE
PROP. GUIDERAIL
ADJUST EXIST 2GI
RETAIN
RETAIN & EXTEND 1@12'X 9' RCBC
N 72° 13' 31.0" E
-L- 60+00
-L- 65+00
-L- 70+00
-L- ST Sta. 61+91.32
MATCH LINE -L- STA. 72+00.00 SEE SHEET 5
ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.
FOR -L- PROFILE SEE SHEET 31

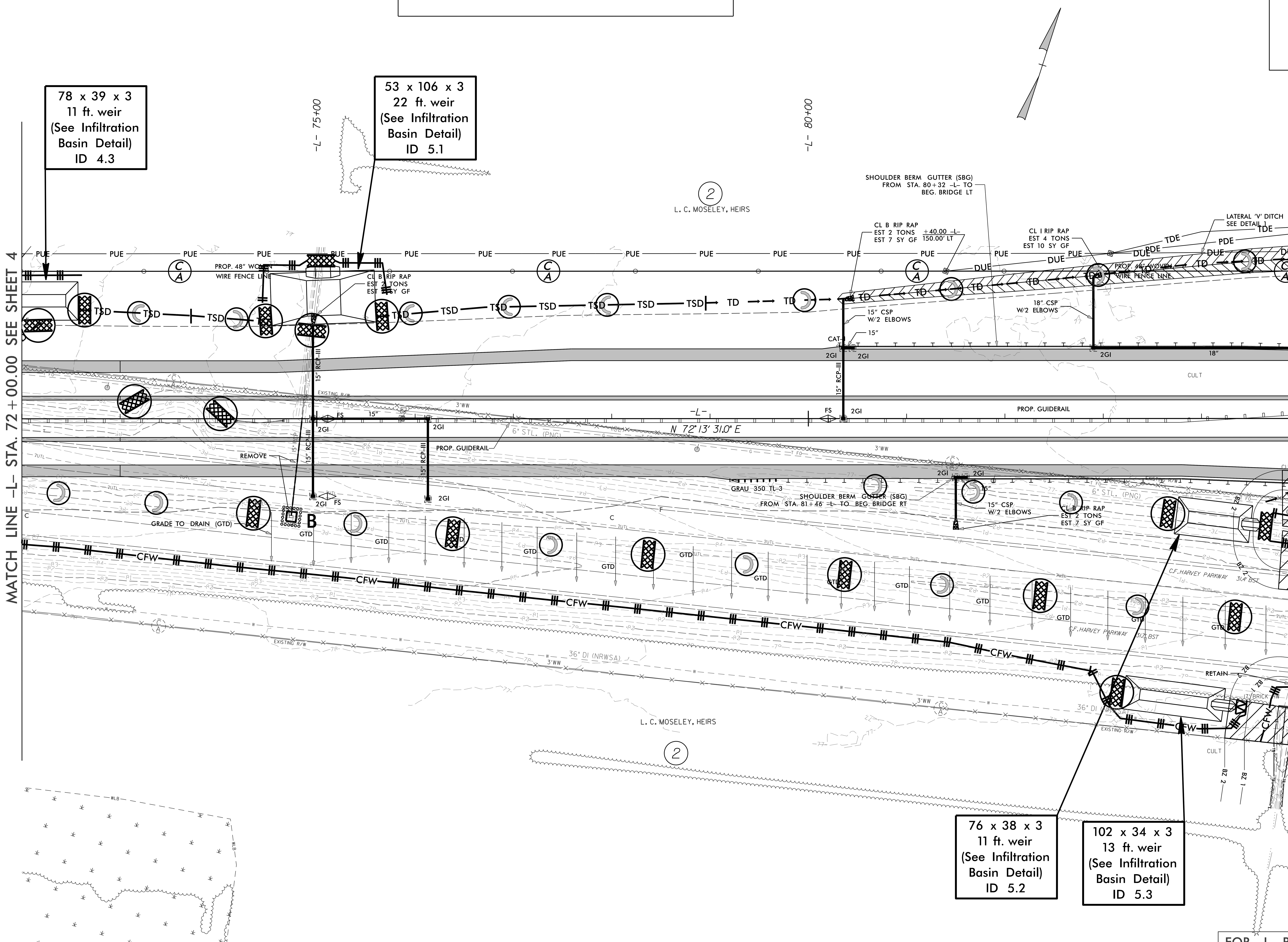
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-05/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

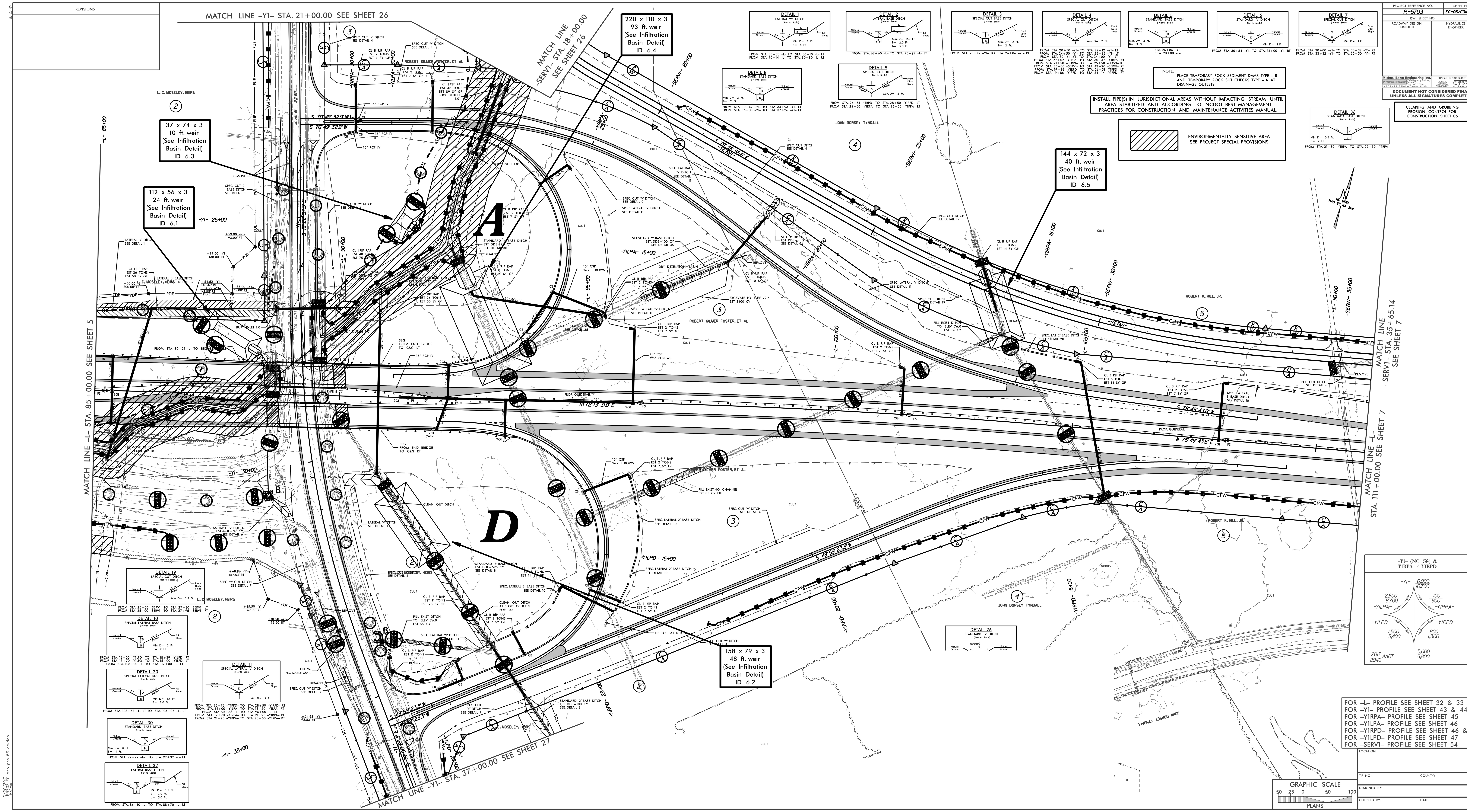
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

REVISIONS



78 x 39 x 3
11 ft. weir
(See Infiltration Basin Detail)
ID 4.3
53 x 106 x 3
22 ft. weir
(See Infiltration Basin Detail)
ID 5.1
76 x 38 x 3
11 ft. weir
(See Infiltration Basin Detail)
ID 5.2
102 x 34 x 3
13 ft. weir
(See Infiltration Basin Detail)
ID 5.3
MATCH LINE –L– STA. 72+00.00 SEE SHEET 4
MATCH LINE –L– STA. 85+00.00 SEE SHEET 6
-L- 75+00
-L- 80+00
-L- 85+00
L. C. MOSELEY, HEIRS
SHOULDER BERM GUTTER (SBG) FROM STA. 80+32 -L- TO BEG. BRIDGE LT
CL B RIP RAP EST 2 TONS EST 7 SY GF
+40.00 -L- 150.00' LT
CL I RIP RAP EST 4 TONS EST 10 SY GF
LATERAL 'V' DITCH SEE DETAIL 1
PROP. 48" WOVEN WIRE FENCE LINE
18" CSP W/2 ELBOWS
15" CSP W/2 ELBOWS
15" RCP-III
PROP. GUIDERAIL
N 72°13' 31.0" E
REMOVE
GRADE TO DRAIN (GTD)
GRAU 350 TL-3
SHOULDER BERM GUTTER (SBG) FROM STA. 81+46 -L- TO BEG. BRIDGE RT
C.F. HARVEY PARKWAY
36" DI (NRWSA)
EXISTING R/W
RETAIN
CULT

FOR –L– PROFILE SEE SHEET 31 & 32

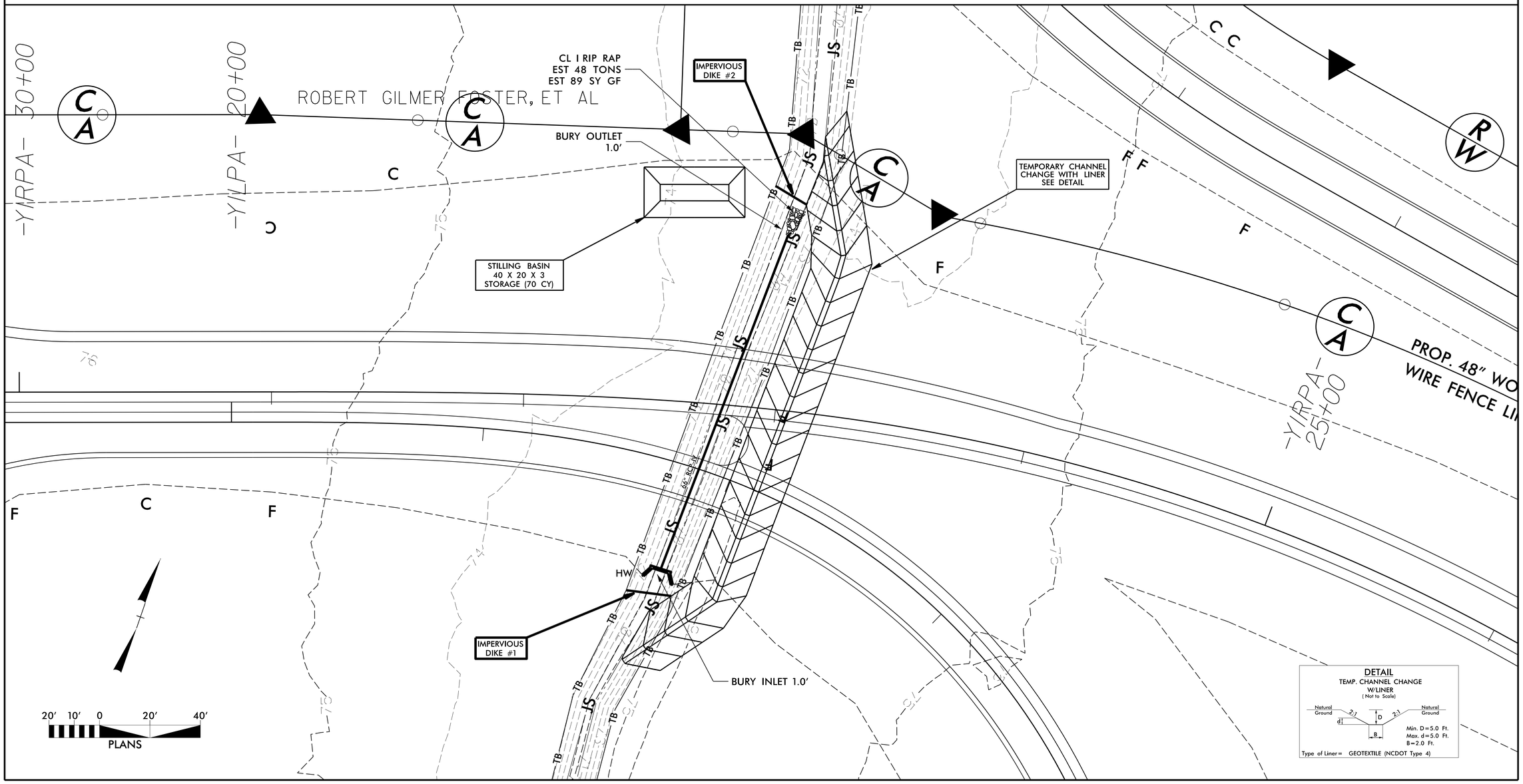


PROJECT REFERENCE NO. R-5703
SHEET NO. EC-06/CONST.06
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
Michael Baker Engineering, Inc. 8000 Regency Parkway Suite 600 Cary, NC 27518 NC License: F-1084
SUNGATE DESIGN GROUP, P.A. 915 Jones Franklin Road Raleigh, NC 27606 NC COA No. C-0890
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 06
REVISIONS
MATCH LINE -Y1- STA. 21+00.00 SEE SHEET 26
MATCH LINE -SERV1- STA. 18+00.00 SEE SHEET 26
MATCH LINE -L- STA. 85+00.00 SEE SHEET 5
MATCH LINE -SERV1- STA. 35+65.14 SEE SHEET 7
MATCH LINE -L- STA. 111+00.00 SEE SHEET 7
MATCH LINE -Y1- STA. 37+00.00 SEE SHEET 27
220 x 110 x 3 93 ft. weir (See Infiltration Basin Detail) ID 6.4
37 x 74 x 3 10 ft. weir (See Infiltration Basin Detail) ID 6.3
112 x 56 x 3 24 ft. weir (See Infiltration Basin Detail) ID 6.1
144 x 72 x 3 40 ft. weir (See Infiltration Basin Detail) ID 6.5
158 x 79 x 3 48 ft. weir (See Infiltration Basin Detail) ID 6.2
A
D
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.
ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS
DETAIL 4 SPECIAL CUT DITCH (Not to Scale)
FROM STA. 20+50 -Y1- TO STA. 22+12 -Y1- LT
FROM STA. 24+50 -Y1- TO STA. 26+86 -Y1- LT
FROM STA. 30+61 -Y1- TO STA. 34+00 -Y1- LT
FROM STA. 27+02 -Y1RPA- TO STA. 30+42 -Y1RPA- RT
FROM STA. 21+50 -SERV1- TO STA. 25+50 -SERV1- RT
FROM STA. 35+00 -SERV1- TO STA. 43+20 -SERV1- RT
FROM STA. 19+86 -Y1RPD- TO STA. 26+51 -Y1RPD- LT
FROM STA. 19+86 -Y1RPD- TO STA. 24+14 -Y1RPD- RT
DETAIL 5 STANDARD BASE DITCH (Not to Scale)
STA. 26+86 -Y1-
STA. 90+80 -L-
DETAIL 6 STANDARD 'V' DITCH (Not to Scale)
FROM STA. 30+54 -Y1- TO STA. 31+00 -Y1- RT
DETAIL 7 SPECIAL CUT DITCH (Not to Scale)
FROM STA. 30+00 -Y1- TO STA. 33+32 -Y1- RT
FROM STA. 33+32 -Y1- TO STA. 35+50 -Y1- RT
DETAIL 36 STANDARD BASE DITCH (Not to Scale)
FROM STA. 21+30 -Y1RPA- TO STA. 22+30 -Y1RPA-
NC GRID NAD 83 NA 2011
ROBERT GILMER FOSTER, ET AL
JOHN DORSEY TYNDALL
ROBERT K. HILL, JR.
L. C. MOSELEY, HEIRS
-Y1- (NC 58) & -Y1RPA- / -Y1RPD-
2017 / 2040 AADT
FOR -L- PROFILE SEE SHEET 32 & 33
FOR -Y1- PROFILE SEE SHEET 43 & 44
FOR -Y1RPA- PROFILE SEE SHEET 45
FOR -Y1LPA- PROFILE SEE SHEET 46
FOR -Y1RPD- PROFILE SEE SHEET 46 & 47
FOR -Y1LPD- PROFILE SEE SHEET 47
FOR -SERV1- PROFILE SEE SHEET 54
GRAPHIC SCALE 50 25 0 50 100 PLANS
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

66" RCP CONSTRUCTION
SEQUENCE STA. 27+20.7 –Y1RPA–
UNNAMED TRIBUTARY TO STONYTON CREEK

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-06A/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

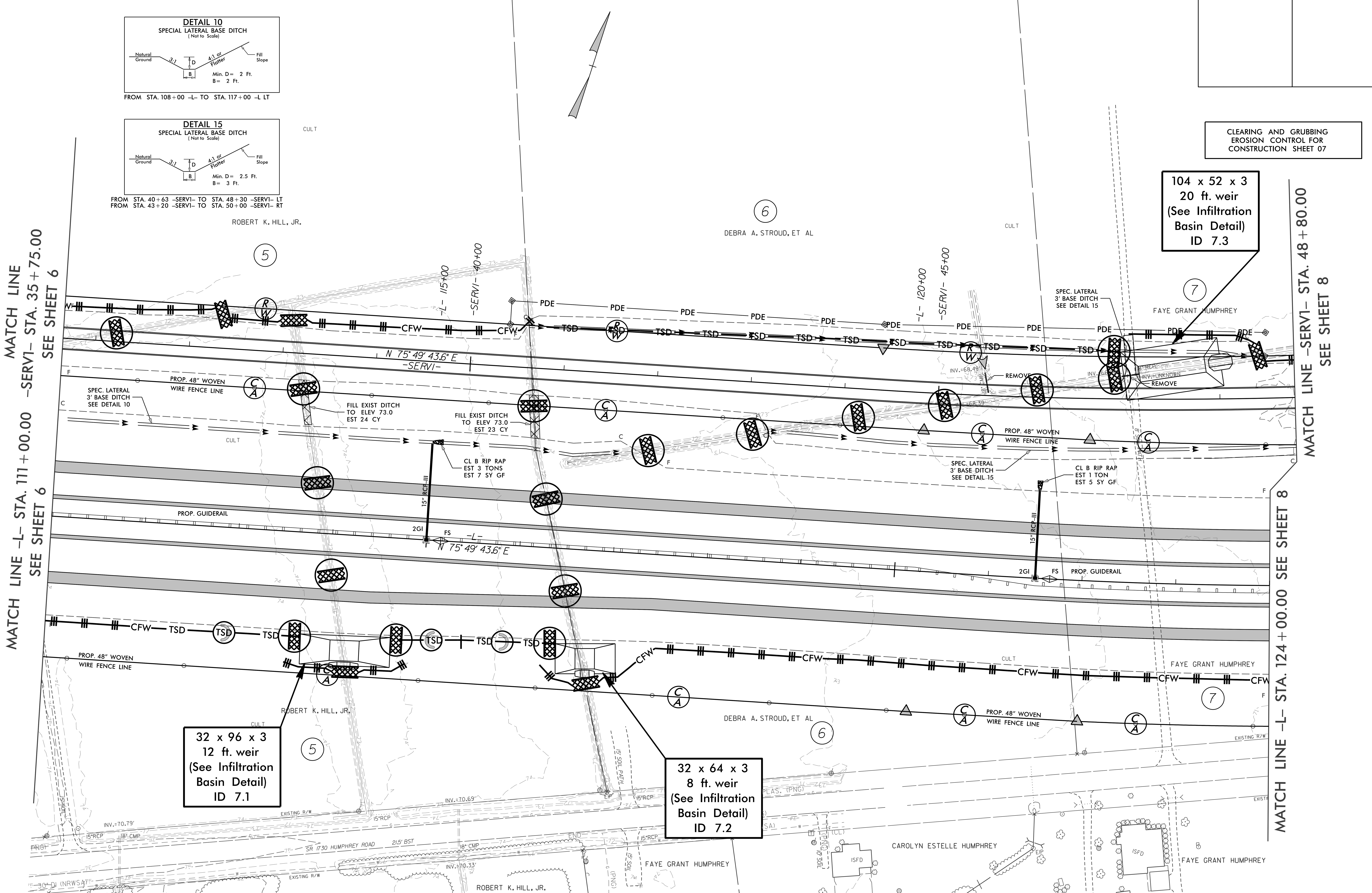
1.) CONSTRUCT STILLING BASIN (MIN. CAP. 70 CY)
2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (SEE DETAIL).
3.) INSTALL IMPERVIOUS DIKES #1 AND #2 AND DIVERT FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4.) DEWATER CONSTRUCTION AREA.
5.) CONSTRUCT PROPOSED 66" RCP, HEADWALL AND OUTLET CLASS I RIP RAP IN ACCORDANCE WITH THE PLANS.
6.) REMOVE IMPERVIOUS DIKES #1 AND #2, TEMPORARY CHANNEL #1 AND DIRECT FLOW THROUGH 66" RCP.
7.) COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-07/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 07



DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground
3:1
D
B
4:1 or Flatter
Fill Slope
Min. D= 2 Ft.
B= 2 Ft.
FROM STA. 108+00 -L- TO STA. 117+00 -L LT
DETAIL 15
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Min. D= 2.5 Ft.
B= 3 Ft.
FROM STA. 40+63 -SERV1- TO STA. 48+30 -SERV1- LT
FROM STA. 43+20 -SERV1- TO STA. 50+00 -SERV1- RT
MATCH LINE -SERV1- STA. 35+75.00 SEE SHEET 6
MATCH LINE -L- STA. 111+00.00 SEE SHEET 6
MATCH LINE -SERV1- STA. 48+80.00 SEE SHEET 8
MATCH LINE -L- STA. 124+00.00 SEE SHEET 8
ROBERT K. HILL, JR.
DEBRA A. STROUD, ET AL
FAYE GRANT HUMPHREY
CAROLYN ESTELLE HUMPHREY
104 x 52 x 3
20 ft. weir
(See Infiltration Basin Detail)
ID 7.3
32 x 96 x 3
12 ft. weir
(See Infiltration Basin Detail)
ID 7.1
32 x 64 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 7.2
N 75° 49' 43.6" E
-SERV1-
-L-
PROP. 48" WOVEN WIRE FENCE LINE
SPEC. LATERAL 3' BASE DITCH SEE DETAIL 10
SPEC. LATERAL 3' BASE DITCH SEE DETAIL 15
FILL EXIST DITCH TO ELEV 73.0 EST 24 CY
FILL EXIST DITCH TO ELEV 73.0 EST 23 CY
CL B RIP RAP EST 3 TONS EST 7 SY GF
CL B RIP RAP EST 1 TON EST 5 SY GF
PROP. GUIDERAIL
REMOVE
SR 1730 HUMPHREY ROAD
CULT
ISFD
RUINS
EXISTING R/W

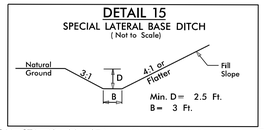
FOR -L- PROFILE SEE SHEET 33

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-08/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

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

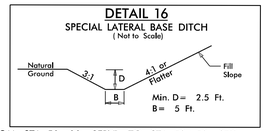
DETAIL 15
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D = 2.5 Ft.
B = 3 Ft.

FROM STA. 43+20 –SERVI– TO STA. 50+00 –SERVI– RT

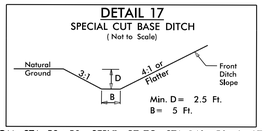
DETAIL 16
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D = 2.5 Ft.
B = 5 Ft.

FROM STA. 50+00 –SERVI– TO STA. 59+50 –SERVI– RT

DETAIL 17
SPECIAL CUT BASE DITCH
(Not to Scale)



Min. D = 2.5 Ft.
B = 5 Ft.

FROM STA. 59+50 –SERVI– RT TO STA. 140+50 –L– LT

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08

MATCH LINE –SERVI– STA. 48+80.00
SEE SHEET 7

MATCH LINE –SERVI– STA. 61+30.00
SEE SHEET 9

MATCH LINE –L– STA. 124+00.00 SEE SHEET 7

MATCH LINE –L– STA. 136+00.00 SEE SHEET 9

FAYE GRANT HUMPHREY

DICKERSON FARMS PROPERTY, LLC

–SERVI– 50+00

–SERVI– 55+00

–SERVI– 60+00

–L– 125+00

–L– 130+00

–L– 135+00

–SERVI–

CFW

CULT

156 x 78 x 3
46 ft. weir
(See Infiltration
Basin Detail)
ID 8.1

SPEC. LATERAL
3' BASE DITCH
SEE DETAIL 15

CL B RIP RAP
EST 1 TON
EST 5 SY GF

SPEC. LATERAL
5' BASE DITCH
SEE DETAIL 16

CL B RIP RAP
EST 1 TON
EST 5 SY GF

SPEC. CUT
5' BASE DITCH
SEE DETAIL 17

15" RCP-III

FS

2GI

PROP. GUIDERAIL

–L–

N 67° 34' 44.0" E

+72.18 –L–
150.00' RT

MON

EXISTING R/W

40 x 80 x 3
12 ft. weir
(See Infiltration
Basin Detail)
ID 8.2

38 x 76 x 3
11 ft. weir
(See Infiltration
Basin Detail)
ID 8.3

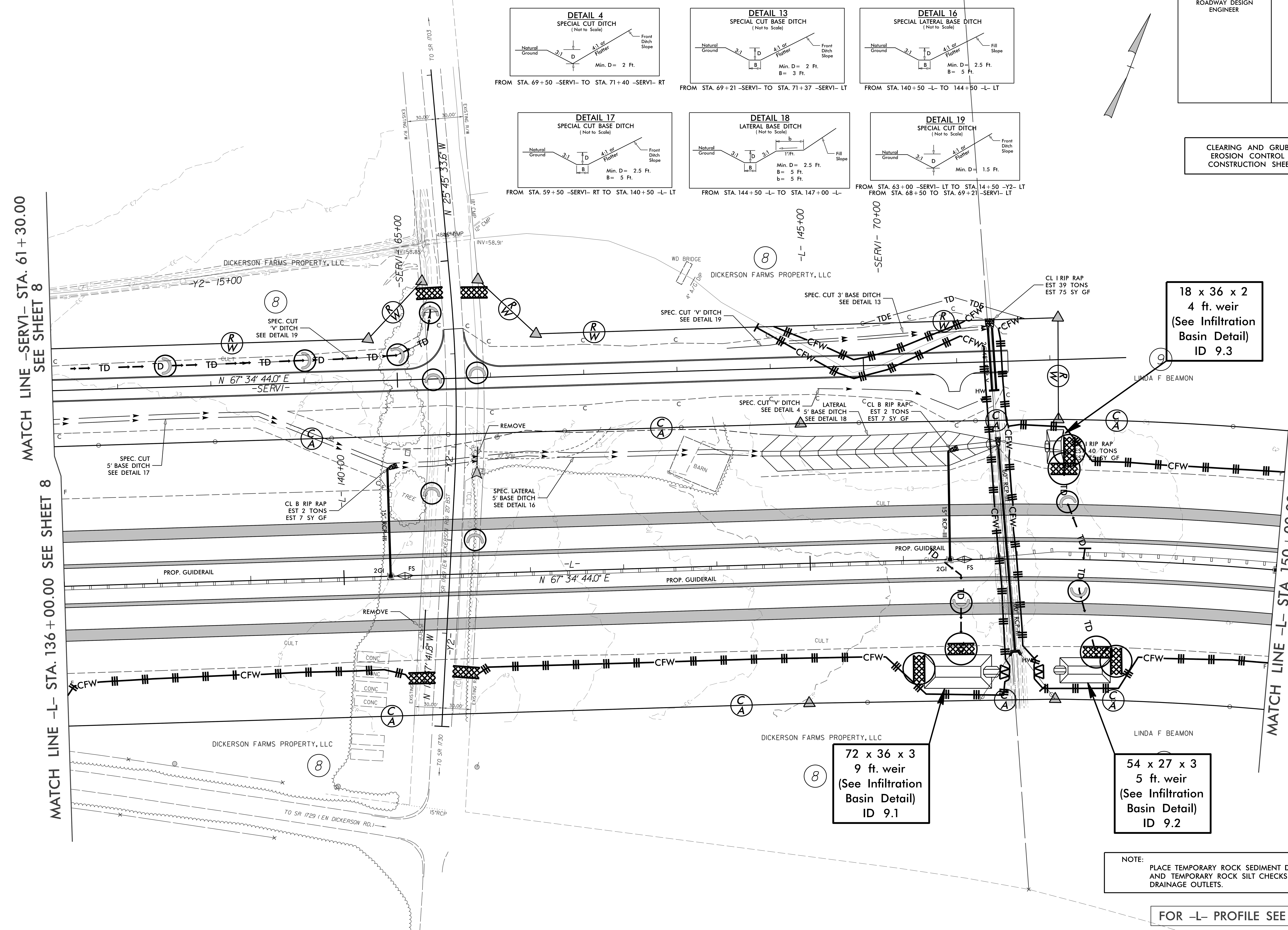
WOODS

FOR –L– PROFILE SEE SHEET 33 & 34

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-09/CONST.09
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09

REVISIONS



DETAIL 4
SPECIAL CUT DITCH
(Not to Scale)
Min. D= 2 Ft.
FROM STA. 69+50 -SERV1- TO STA. 71+40 -SERV1- RT
DETAIL 13
SPECIAL CUT BASE DITCH
(Not to Scale)
Min. D= 2 Ft.
B= 3 Ft.
FROM STA. 69+21 -SERV1- TO STA. 71+37 -SERV1- LT
DETAIL 16
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Min. D= 2.5 Ft.
B= 5 Ft.
FROM STA. 140+50 -L- TO 144+50 -L- LT
DETAIL 17
SPECIAL CUT BASE DITCH
(Not to Scale)
Min. D= 2.5 Ft.
B= 5 Ft.
FROM STA. 59+50 -SERV1- RT TO STA. 140+50 -L- LT
DETAIL 18
LATERAL BASE DITCH
(Not to Scale)
Min. D= 2.5 Ft.
B= 5 Ft.
b= 5 Ft.
FROM STA. 144+50 -L- TO STA. 147+00 -L-
DETAIL 19
SPECIAL CUT DITCH
(Not to Scale)
Min. D= 1.5 Ft.
FROM STA. 63+00 -SERV1- LT TO STA. 14+50 -Y2- LT
FROM STA. 68+50 TO STA. 69+21 -SERV1- LT
MATCH LINE -SERV1- STA. 61+30.00 SEE SHEET 8
MATCH LINE -L- STA. 136+00.00 SEE SHEET 8
MATCH LINE -L- STA. 150+00.00 SEE SHEET 10
DICKERSON FARMS PROPERTY, LLC
LINDA F BEAMON
N 67° 34' 44.0" E
-SERV1-
-L-
-Y2-
N 25° 45' 33.6" W
TO SR 1703
TO SR 1730
TO SR 1729 (EN DICKERSON RD.)
-SERV1- 65+00
-SERV1- 70+00
-L- 140+00
-L- 145+00
-L- 150+00
-Y2- 15+00
WD BRIDGE
BARN
TREE
CULT
CONC
PROP. GUIDERAIL
REMOVE
SPEC. CUT 'V' DITCH SEE DETAIL 19
SPEC. CUT 3' BASE DITCH SEE DETAIL 13
SPEC. CUT 'V' DITCH SEE DETAIL 4
LATERAL 5' BASE DITCH SEE DETAIL 18
SPEC. CUT 5' BASE DITCH SEE DETAIL 17
SPEC. LATERAL 5' BASE DITCH SEE DETAIL 16
CL B RIP RAP EST 2 TONS EST 7 SY GF
CL I RIP RAP EST 39 TONS EST 75 SY GF
CL I RIP RAP EST 40 TONS
18 x 36 x 2
4 ft. weir
(See Infiltration Basin Detail)
ID 9.3
72 x 36 x 3
9 ft. weir
(See Infiltration Basin Detail)
ID 9.1
54 x 27 x 3
5 ft. weir
(See Infiltration Basin Detail)
ID 9.2
CFW
TD
TDE
FS
2GI
HW
15" RCP-III
INV=58.85'
INV=58.91'

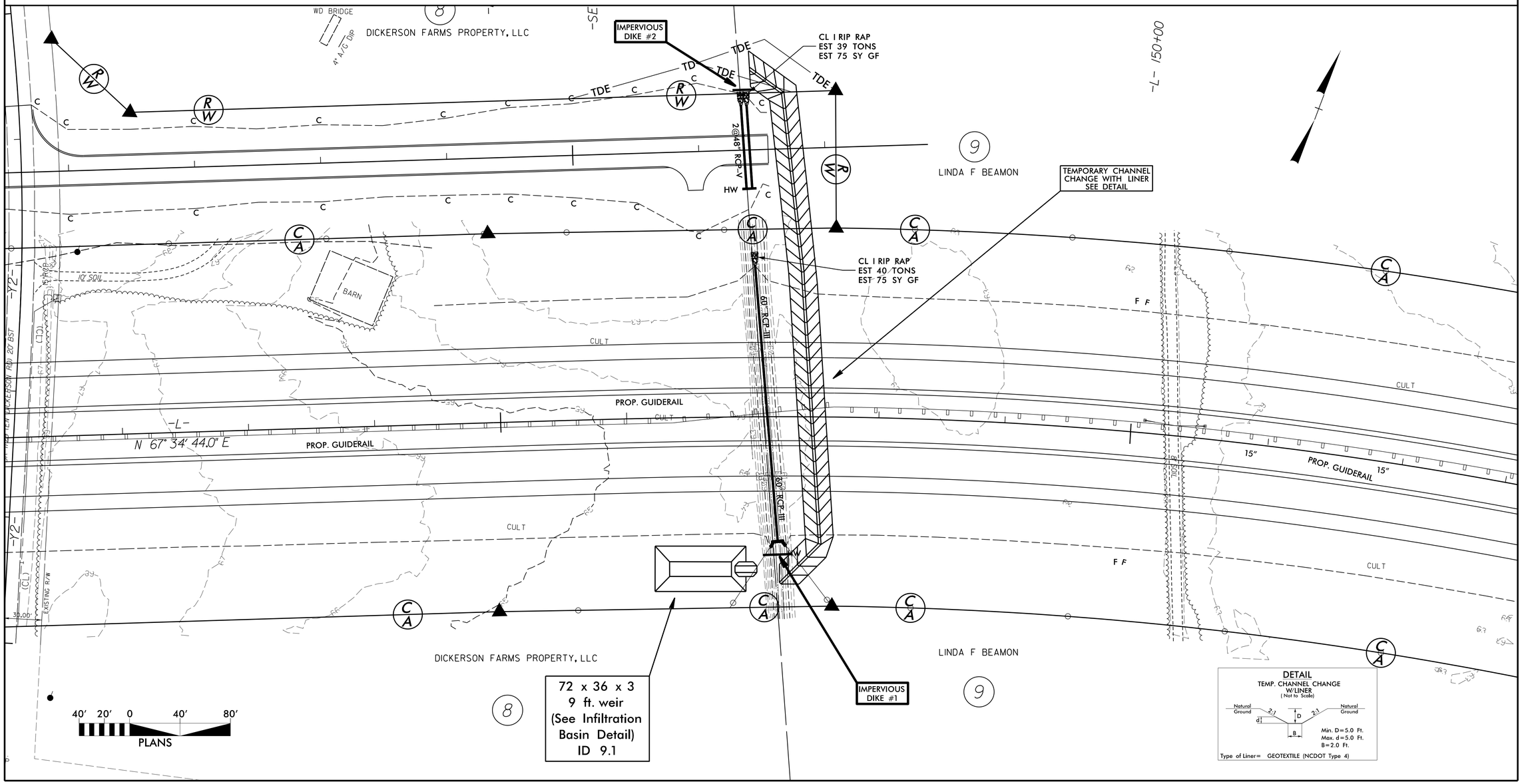
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

FOR -L- PROFILE SEE SHEET 34

60" RCP AND 2@48" RCP
CONSTRUCTION SEQUENCE STA. 147+11 –L–
UT TO STONYTON CREEK

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-09A/CONST.09
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1.) CONSTRUCT INFILTRATION BASIN 9.1.
2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (SEE DETAIL).
3.) INSTALL IMPERVIOUS DIKES #1 AND #2 AND DIVERT FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4.) DEWATER CONSTRUCTION AREA, UTILIZING INFILTRATION BASIN 9.1 AS STILLING BASIN.
5.) CONSTRUCT PROPOSED 60" RCP WITH HEADWALL, PROPOSED 2@48" RCP WITH HEADWALL AND OUTLETS CLASS I RIP RAP IN ACCORDANCE WITH THE PLANS.
6.) REMOVE IMPERVIOUS DIKES #1 AND #2, TEMPORARY CHANNEL #1 AND DIRECT FLOW THROUGH 60" RCP.
7.) COMPLETE ROADWAY.

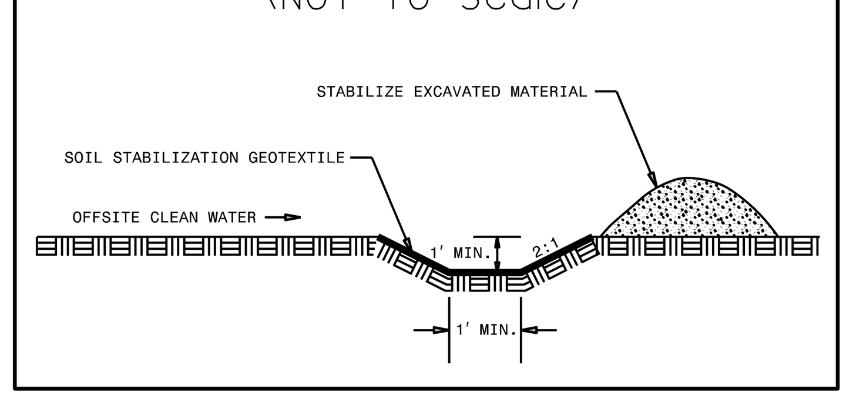


PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-10/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

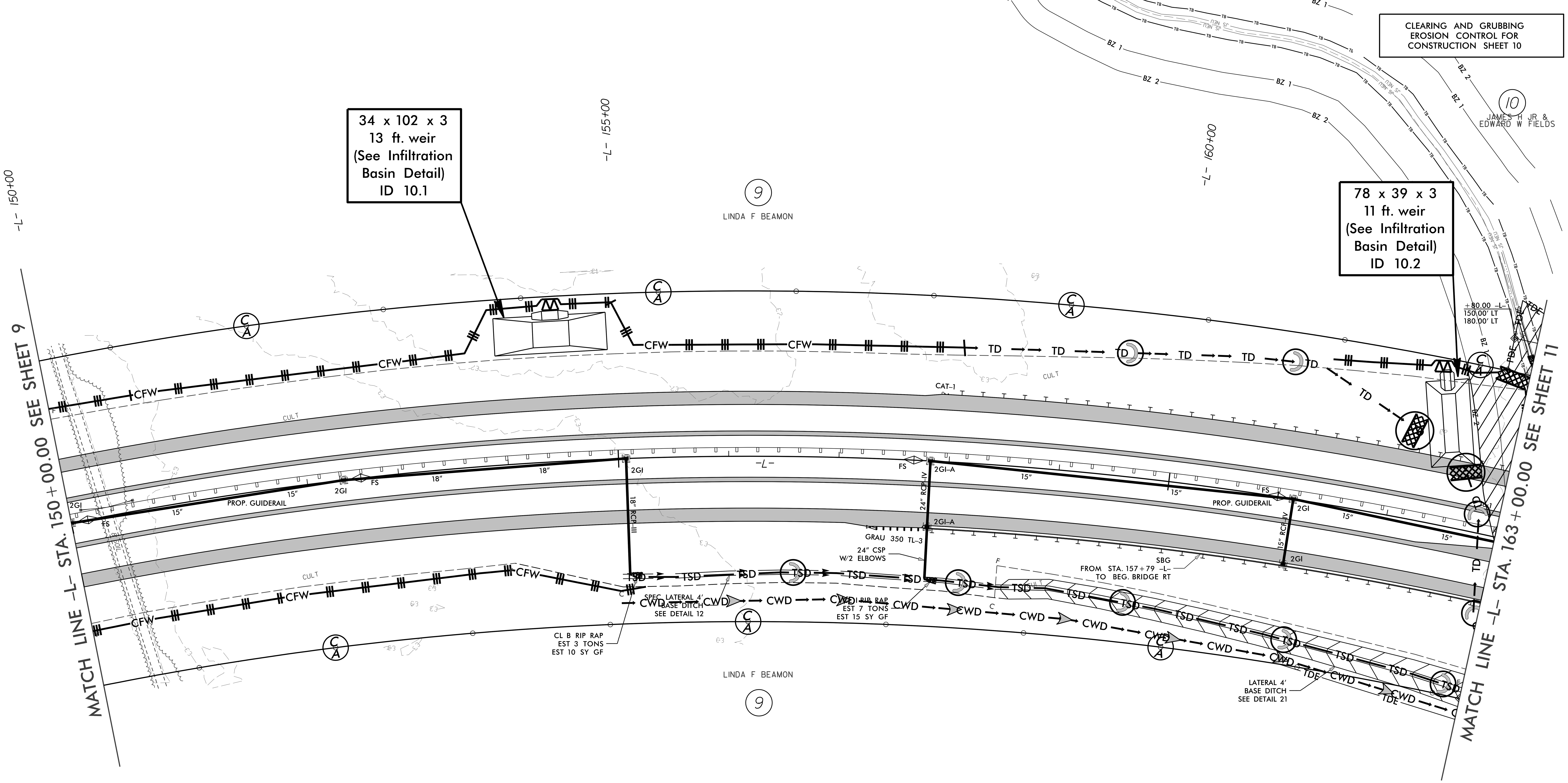
CLEAN WATER DIVERSION

(Not to Scale)

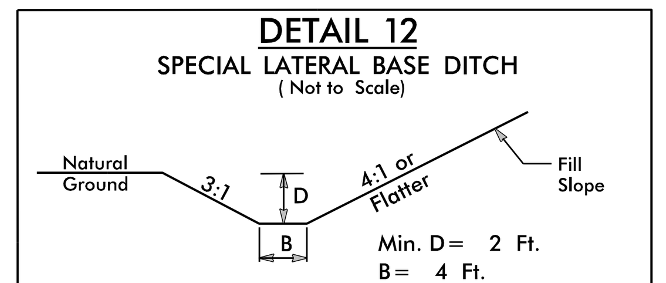


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

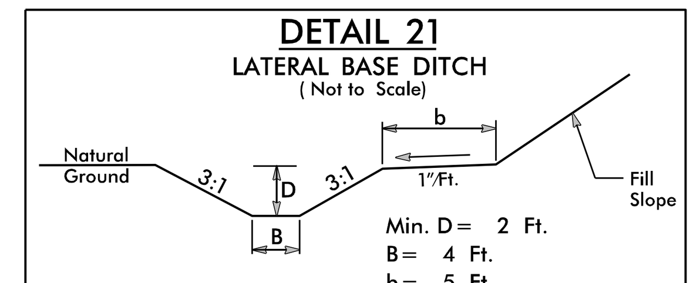


DETAIL 12
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 155+00 -L- TO STA. 158+50 -L- RT

DETAIL 21
LATERAL BASE DITCH
(Not to Scale)



FROM STA. 158+50 -L- TO STA. 164+50 -L- RT

FOR -L- PROFILE SEE SHEET 34 & 35

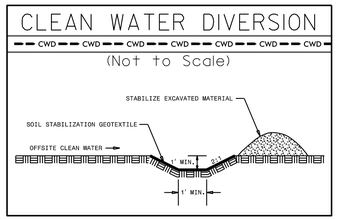
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-11/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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

CLEAN WATER DIVERSION
(Not to Scale)



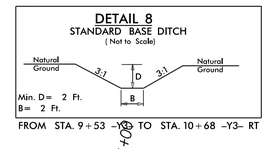
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

68 x 34 x 3
9 ft. weir
(See Infiltration Basin Detail)
ID 11.1

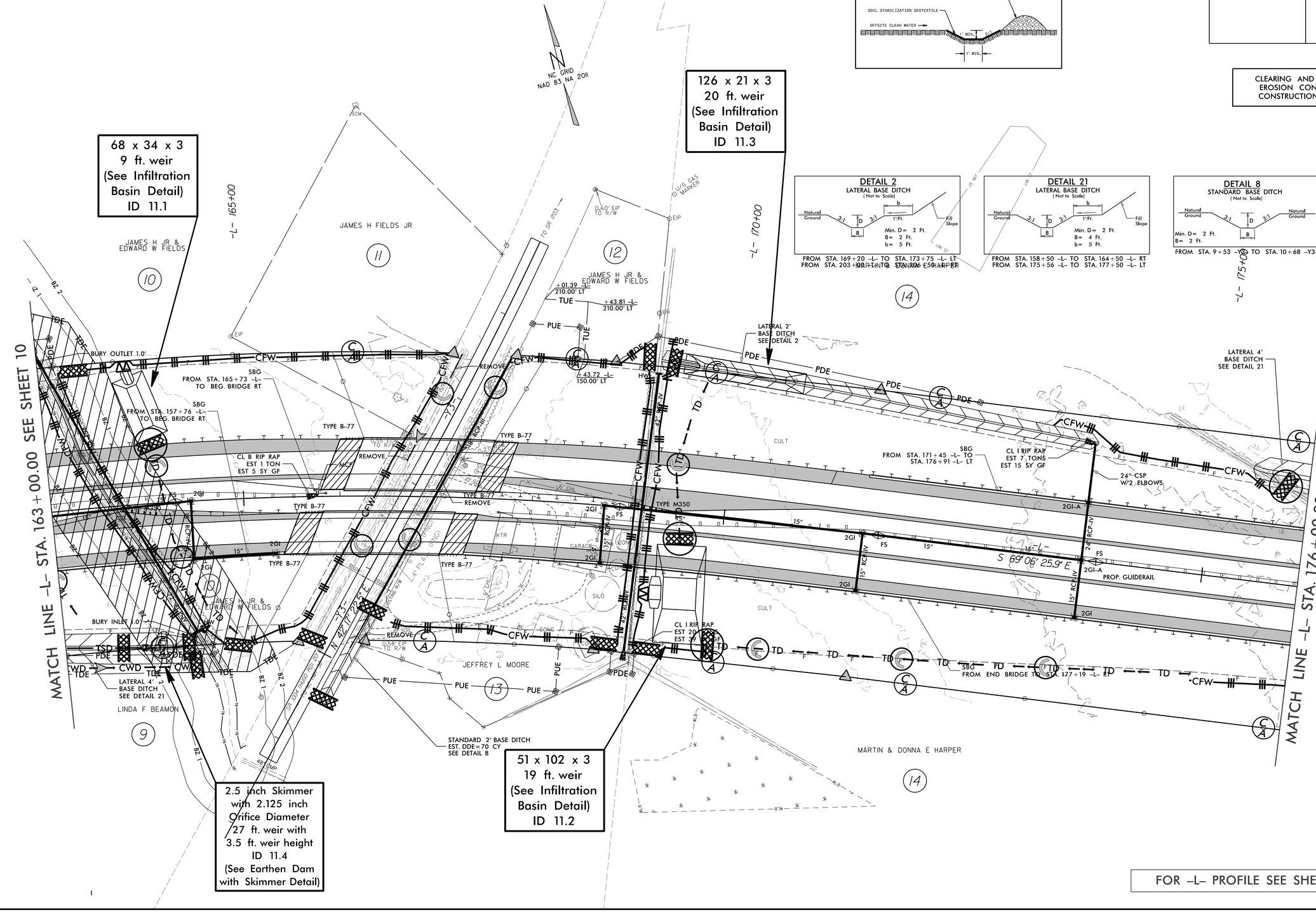
126 x 21 x 3
20 ft. weir
(See Infiltration Basin Detail)
ID 11.3

FROM STA. 169+20 –L– TO STA. 173+75 –L– LT
FROM STA. 203+00 –L– TO STA. 206+50 –L– RT

FROM STA. 158+50 –L– TO STA. 164+50 –L– RT
FROM STA. 175+56 –L– TO STA. 177+50 –L– LT



FROM STA. 9+53 –Y3– TO STA. 10+68 –Y3– RT



2.5 inch Skimmer with 2.125 inch Orifice Diameter 27 ft. weir with 3.5 ft. weir height ID 11.4 (See Earthen Dam with Skimmer Detail)

51 x 102 x 3
19 ft. weir
(See Infiltration Basin Detail)
ID 11.2

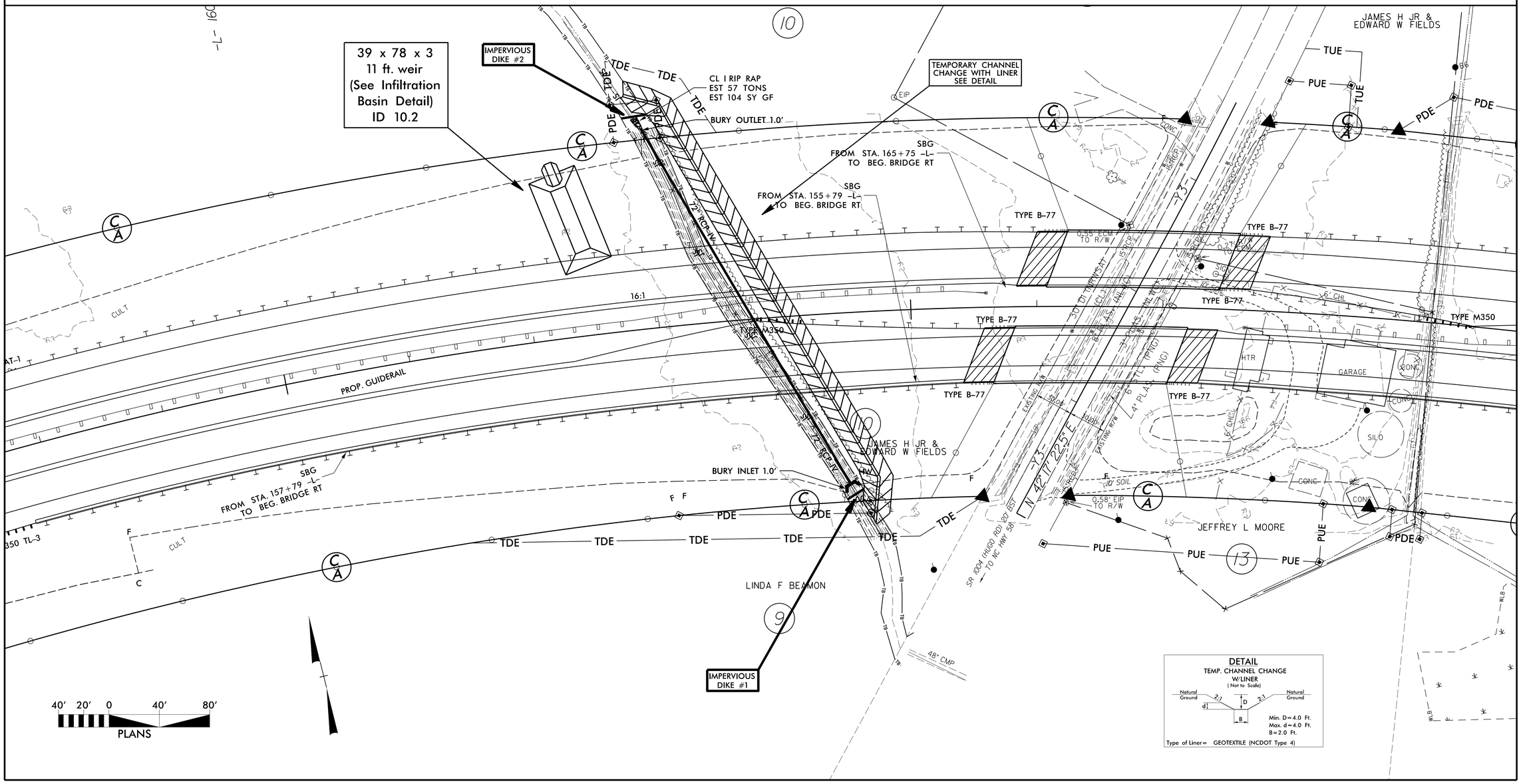
FOR –L– PROFILE SEE SHEET 35

REVISIONS

72" RCP CONSTRUCTION SEQUENCE STA. 163+74 –L– UT TO STONYTON CREEK

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-IIA/CONST JI
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

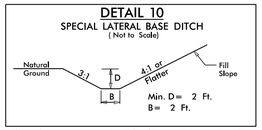
1.) CONSTRUCT INFILTRATION BASIN 10.2.
2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (SEE DETAIL).
3.) INSTALL IMPERVIOUS DIKES #1 AND #2 AND DIVERT FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4.) DEWATER CONSTRUCTION AREA, UTILIZING INFILTRATION BASIN 10.3 AS STILLING BASIN.
5.) CONSTRUCT PROPOSED 72" RCP, HEADWALL AND OUTLET CLASS I RIP RAP IN ACCORDANCE WITH THE PLANS.
6.) REMOVE IMPERVIOUS DIKES #1 AND #2, TEMPORARY CHANNEL #1 AND DIRECT FLOW THROUGH 72" RCP.
7.) COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-12/CONST12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

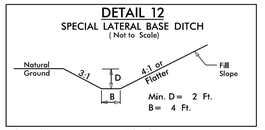
REVISIONS

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



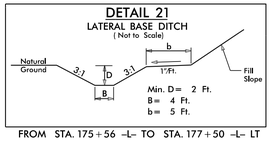
FROM STA. 179+50 –L– TO STA. 182+00 –L– LT

DETAIL 12
SPECIAL LATERAL BASE DITCH
(Not to Scale)



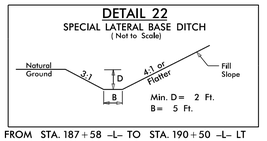
FROM STA. 177+00 –L– TO STA. 179+50 –L– LT

DETAIL 21
LATERAL BASE DITCH
(Not to Scale)



FROM STA. 175+56 –L– TO STA. 177+50 –L– LT

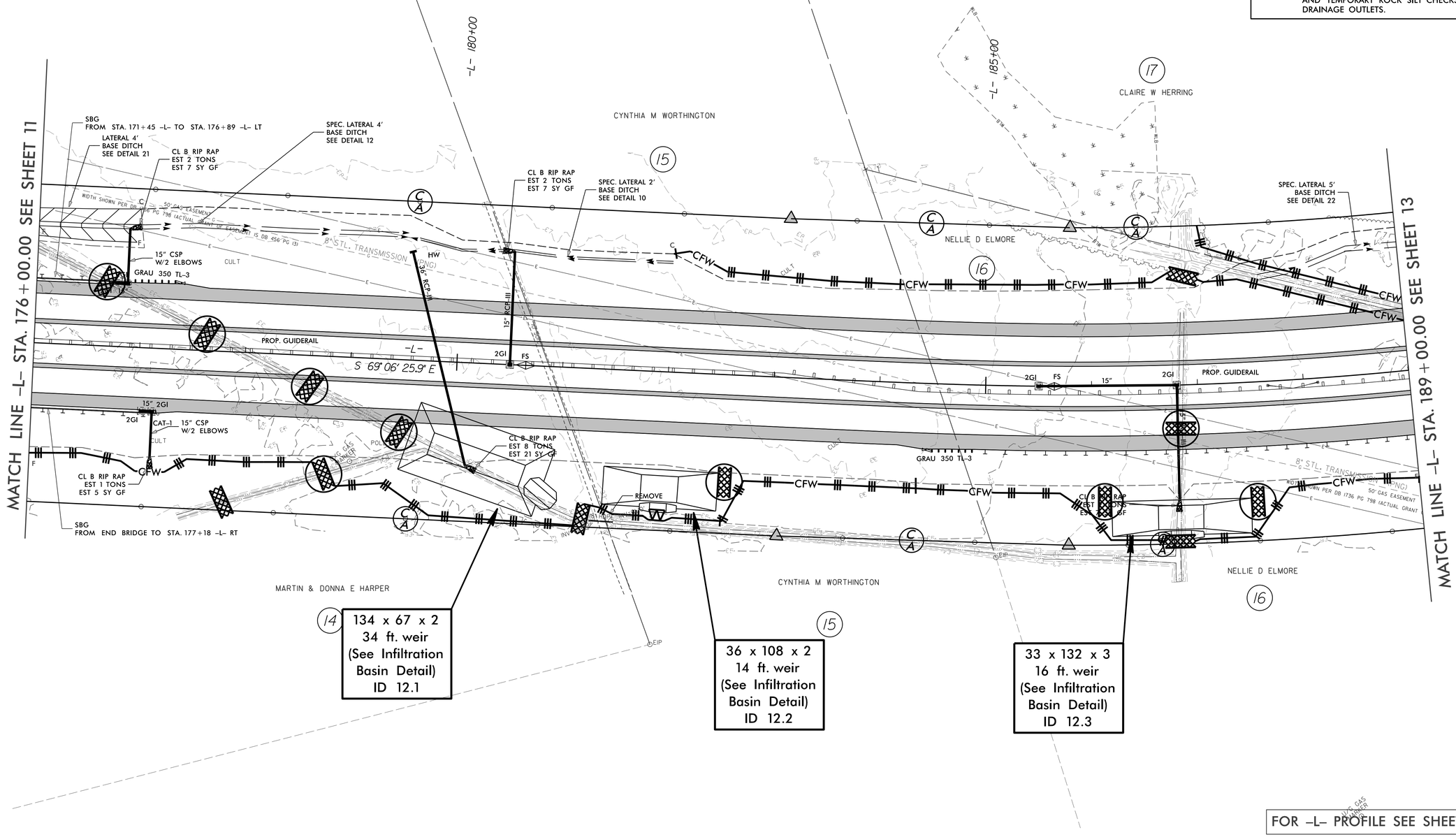
DETAIL 22
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 187+58 –L– TO STA. 190+50 –L– LT

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

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



FOR –L– PROFILE SEE SHEET 35 & 36

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-13/CONST13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

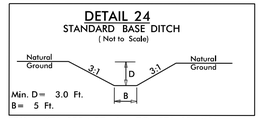
REVISIONS

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

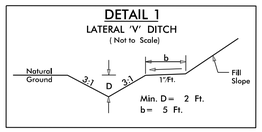
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

DETAIL 24
STANDARD BASE DITCH
(Not to Scale)



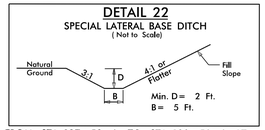
FROM STA. 193+97 –L– TO STA. 194+06 –L– RT

DETAIL 1
LATERAL 'V' DITCH
(Not to Scale)



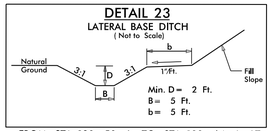
FROM STA. 189+50 –L– TO STA. 193+66 –L– RT

DETAIL 22
SPECIAL LATERAL BASE DITCH
(Not to Scale)



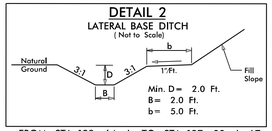
FROM STA. 187+58 –L– TO STA. 190+50 –L– LT

DETAIL 23
LATERAL BASE DITCH
(Not to Scale)



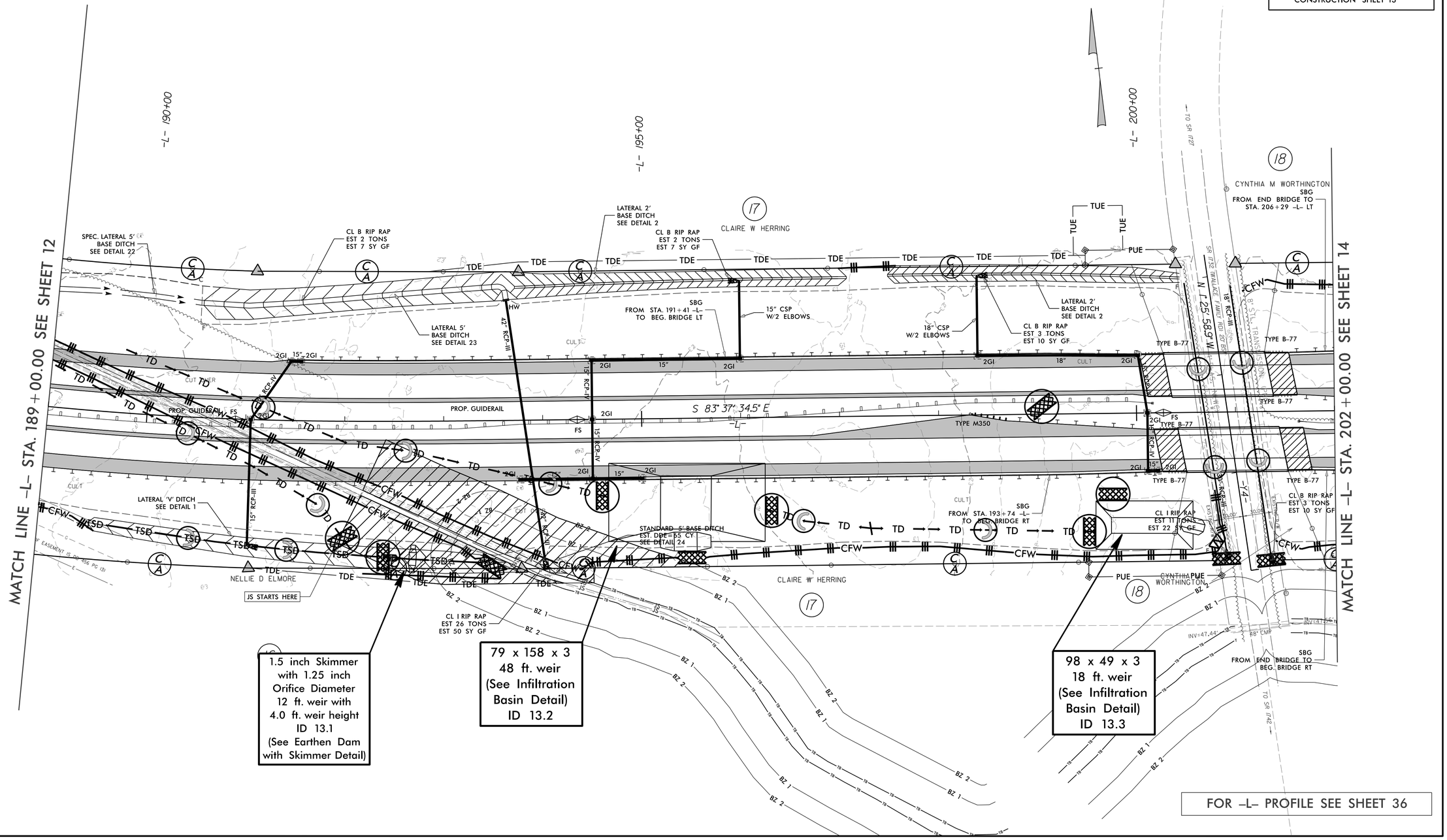
FROM STA. 190+50 –L– TO STA. 193+64 –L– LT

DETAIL 2
LATERAL BASE DITCH
(Not to Scale)



FROM STA. 193+64 –L– TO STA. 197+00 –L– LT
197+50 –L– TO STA. 200+45 –L– LT

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13



FOR –L– PROFILE SEE SHEET 36

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-14/CONST14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

REVISIONS

MATCH LINE –L– STA. 202+00.00 SEE SHEET 13

MATCH LINE –L– STA. 215+00.00 SEE SHEET 15

–L– 205+00

–L– 210+00

–L– 215+00

CYNTHIA M WORTHINGTON 18

CL B RIP RAP
EST 2 TONS
EST 7 SY GF

LATERAL 2'
BASE DITCH
SEE DETAIL 2

SPEC. LATERAL 2'
BASE DITCH
SEE DETAIL 10

LATERAL 3'
BASE DITCH
SEE DETAIL 25

116 x 29 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
19 ft. weir
ID 14.2

CFW

SBG
FROM END BRIDGE TO
STA. 206+29 –L– LT

SBG
FROM STA 211+12 –L–
TO BEG. BRIDGE LT

SBG
FROM END BRIDGE TO
BEG. BRIDGE RT

15" CSP
W/2 ELBOWS

GRAU 350 TL-3

CL I RIP RAP
EST 7 TONS
EST 15 SY GF

24" CSP
W/2 ELBOWS

CAT-1

2GI-A TYPE B-77

TYPE M350

PROP. GUIDERAIL

S 83° 37' 34.5" E

–L–

CUT OVER

CL B RIP RAP
EST 5 TONS
EST 14 SY GF

STANDARD 2' BASE DITCH
EST. DDE=700 CY
SEE DETAIL 8

147 x 49 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
27 ft. weir
ID 14.1

144 x 24 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
ID 14.3

TD

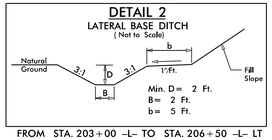
TDF

BZ 1

BZ 2

PINES

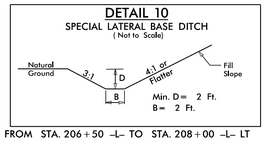
DETAIL 2
LATERAL BASE DITCH
(Not to Scale)



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

FROM STA. 203+00 –L– TO STA. 206+50 –L– LT

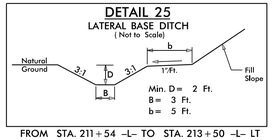
DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D= 2 Ft.
B= 2 Ft.

FROM STA. 206+50 –L– TO STA. 208+00 –L– LT

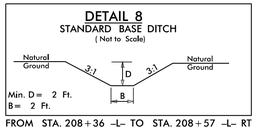
DETAIL 25
LATERAL BASE DITCH
(Not to Scale)



Min. D= 2 Ft.
B= 3 Ft.
b= 5 Ft.

FROM STA. 211+54 –L– TO STA. 213+50 –L– LT

DETAIL 8
STANDARD BASE DITCH
(Not to Scale)



Min. D= 2 Ft.
B= 2 Ft.

FROM STA. 208+36 –L– TO STA. 208+57 –L– RT

FOR –L– PROFILE SEE SHEET 36 & 37

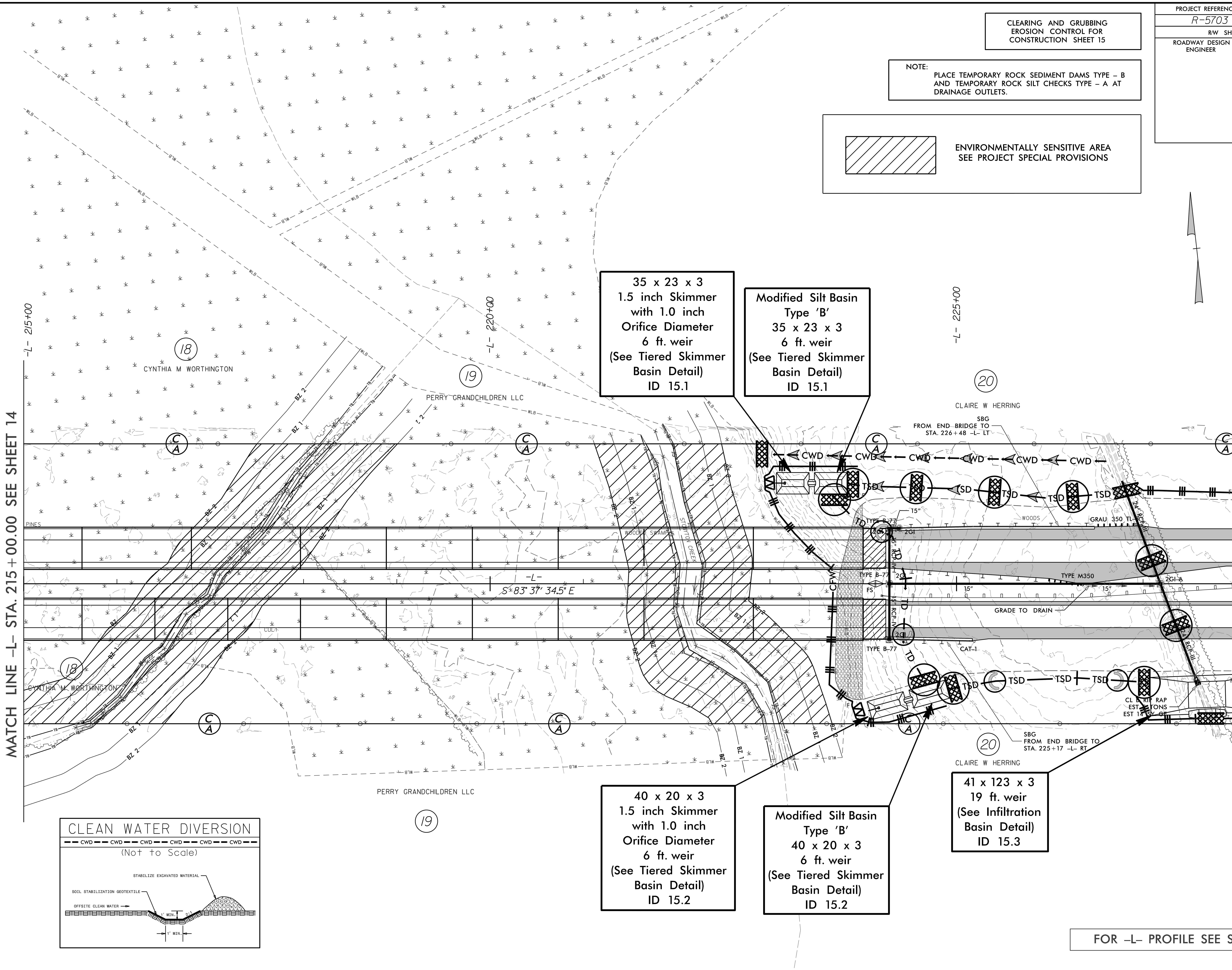
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-15/CONSTJ5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

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

REVISIONS



MATCH LINE –L– STA. 215+00.00 SEE SHEET 14
MATCH LINE –L– STA. 228+00.00 SEE SHEET 16
–L– 215+00
–L– 220+00
–L– 225+00
CYNTHIA M WORTHINGTON
PERRY GRANDCHILDREN LLC
CLAIRE W HERRING
–L–
S 83° 37' 34.5" E
35 x 23 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 15.1
Modified Silt Basin
Type 'B'
35 x 23 x 3
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 15.1
SBG
FROM END BRIDGE TO
STA. 226+48 –L– LT
SBG
FROM END BRIDGE TO
STA. 225+17 –L– RT
CWD
TSD
TD
TYPE B-77
GRADE TO DRAIN
TYPE M350
CAT-1
40 x 20 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 15.2
Modified Silt Basin
Type 'B'
40 x 20 x 3
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 15.2
41 x 123 x 3
19 ft. weir
(See Infiltration
Basin Detail)
ID 15.3
CLEAN WATER DIVERSION
(Not to Scale)
STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER

FOR –L– PROFILE SEE SHEET 37

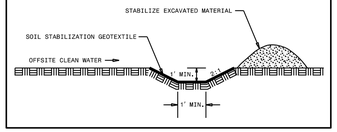
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-16/CONST16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

CLEAN WATER DIVERSION

CWD — CWD — CWD — CWD — CWD — CWD — CWD

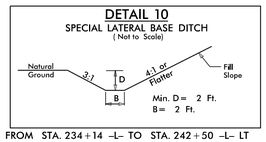
(Not to Scale)



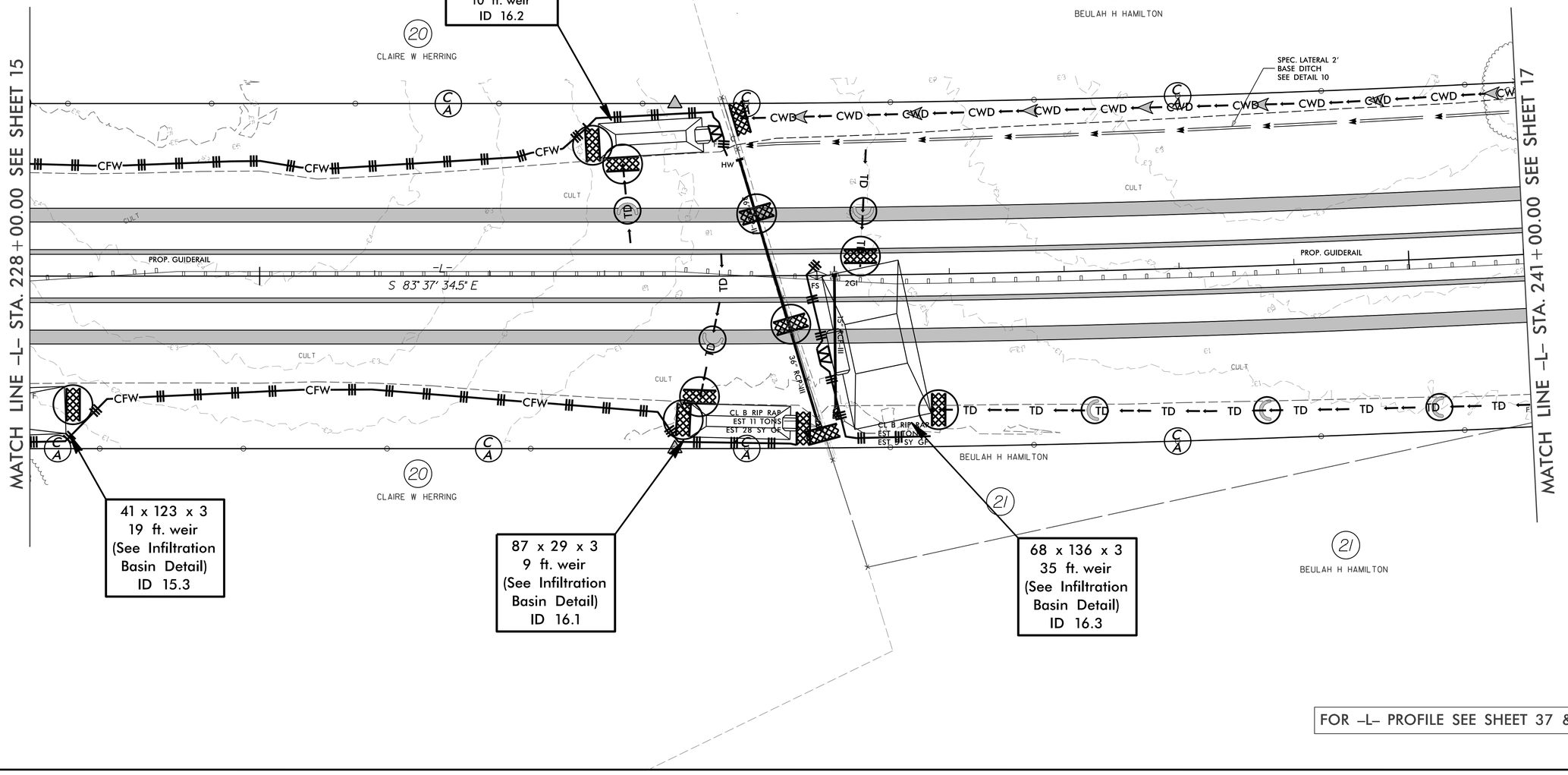
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 234+14 –L– TO STA. 242+50 –L– LT



FOR –L– PROFILE SEE SHEET 37 & 38

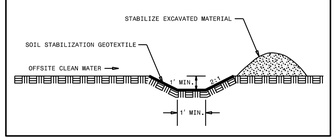
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-17/CONST17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

CLEAN WATER DIVERSION

CWD — CWD — CWD — CWD — CWD — CWD — CWD

(Not to Scale)

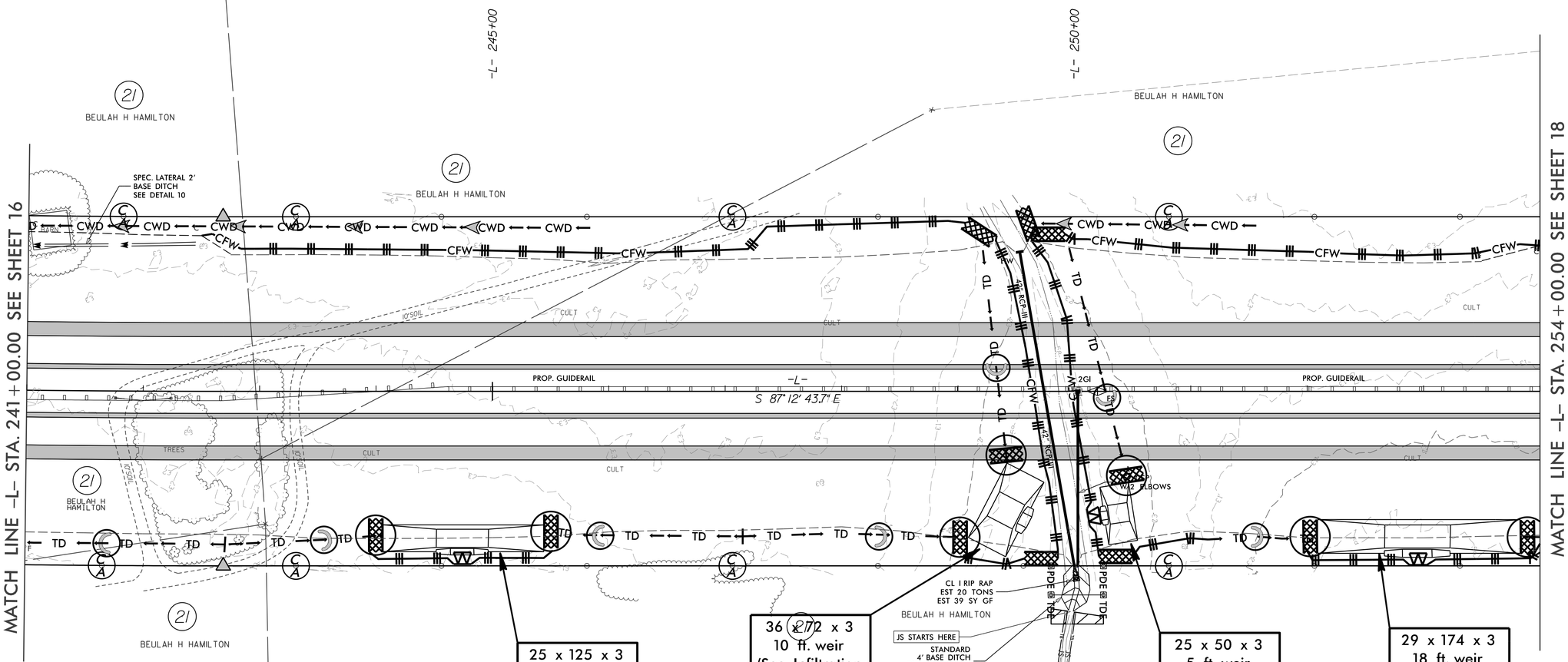


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

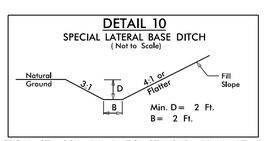
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17

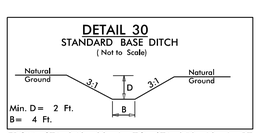


DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 234+14 –L– TO STA. 242+50 –L– LT

DETAIL 30
STANDARD BASE DITCH
(Not to Scale)



FROM STA. 249+89 –L– TO STA. 250+13 –L– RT

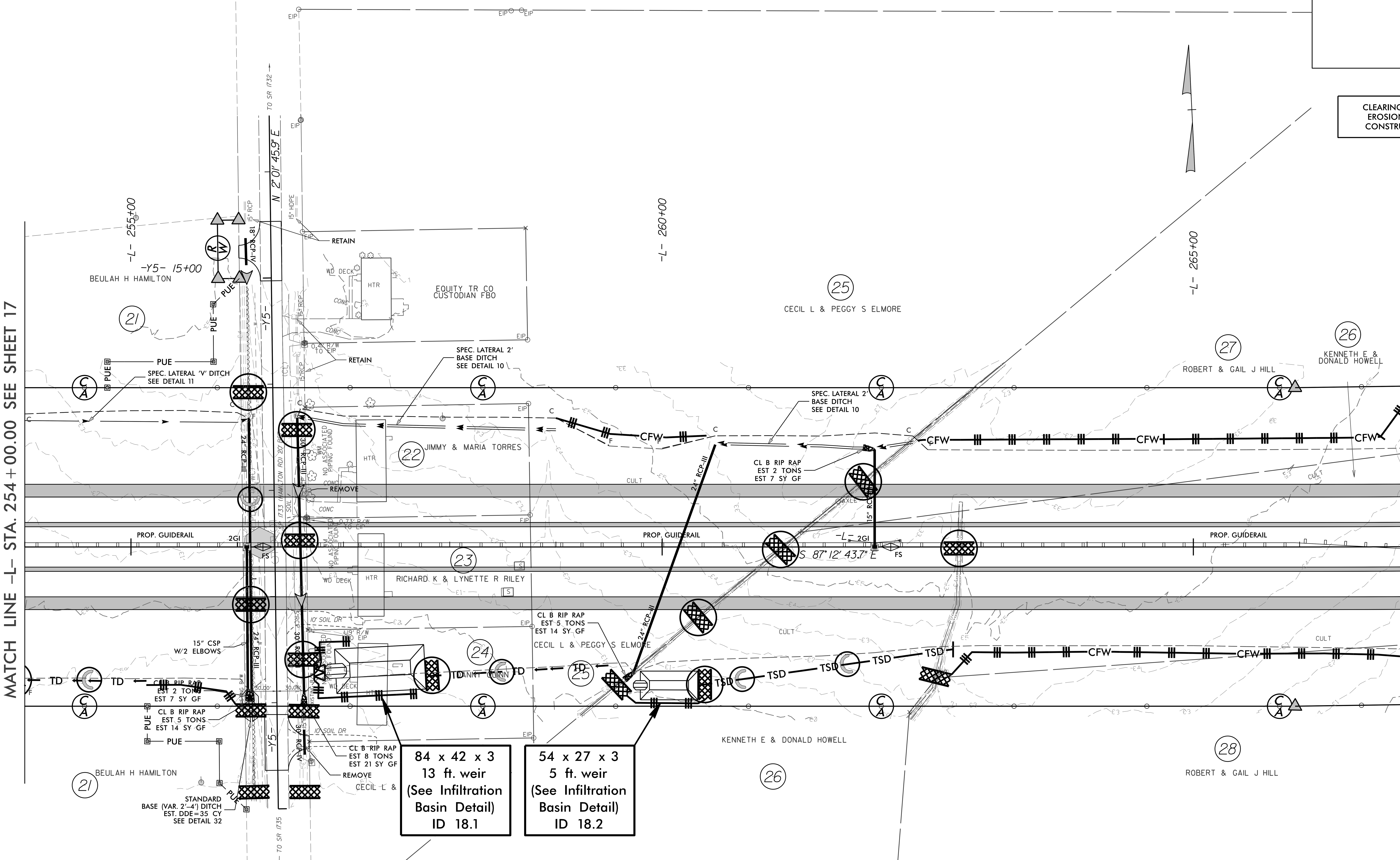
FOR –L– PROFILE SEE SHEET 38

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-18/CONST18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

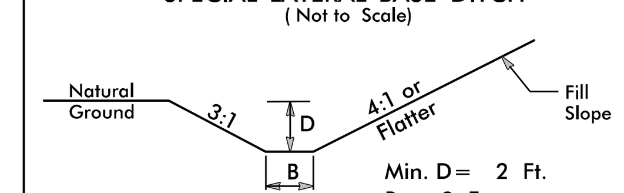
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18



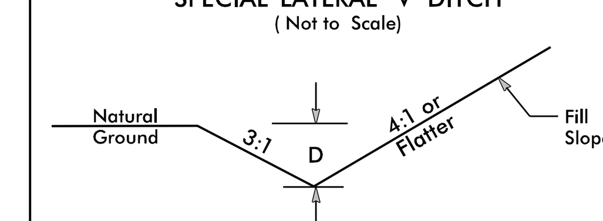
MATCH LINE –L– STA. 254+00.00 SEE SHEET 17
MATCH LINE –L– STA. 267+00.00 SEE SHEET 19
-L- 255+00
-L- 260+00
-L- 265+00
-Y5- 15+00
N 2°01' 45.9" E
S 87°12' 43.7" E
BEULAH H HAMILTON
EQUITY TR CO CUSTODIAN FBO
CECIL L & PEGGY S ELMORE
ROBERT & GAIL J HILL
KENNETH E & DONALD HOWELL
JIMMY & MARIA TORRES
RICHARD K & LYNETTE R RILEY
KENNETH E & DONALD HOWELL
SPEC. LATERAL 'V' DITCH SEE DETAIL 11
SPEC. LATERAL 2' BASE DITCH SEE DETAIL 10
CL B RIP RAP EST 2 TONS EST 7 SY GF
CL B RIP RAP EST 5 TONS EST 14 SY GF
CL B RIP RAP EST 8 TONS EST 21 SY GF
15" CSP W/2 ELBOWS
STANDARD BASE (VAR. 2'-4') DITCH EST. DDE=35 CY SEE DETAIL 32
PROP. GUIDERAIL
RETAIN
REMOVE
84 x 42 x 3
13 ft. weir
(See Infiltration Basin Detail)
ID 18.1
54 x 27 x 3
5 ft. weir
(See Infiltration Basin Detail)
ID 18.2

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



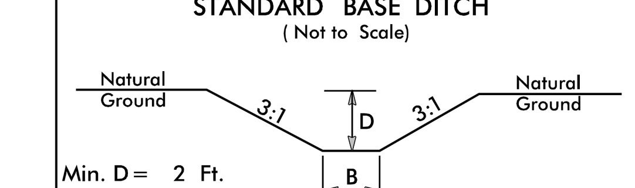
FROM STA. 256+59 –L– TO STA. 259+00 –L– LT
FROM STA. 260+50 –L– TO STA. 262+36 –L– LT

DETAIL 11
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 254+00 –L– TO STA. 256+08 –L– LT

DETAIL 32
STANDARD BASE DITCH
(Not to Scale)



FROM STA. 10+82 -Y5- TO STA. 11+14 -Y5- LT

FOR –L– PROFILE SEE SHEET 38 & 39

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-19/CONST19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

REVISIONS

MATCH LINE –L– STA. 267+00.00 SEE SHEET 18

MATCH LINE –L– STA. 280+00.00 SEE SHEET 20

KENNETH E & DONALD HOWELL

ROBERT & GAIL J HILL

ROBERT & GAIL J HILL

ROBERT & GAIL J HILL

JEFFREY S WHITLEY
DB 1219 PG 345

-L- 270+00

-L- 275+00

-L- 280+00

2.0 inch Skimmer with 2.0 inch Orifice Diameter 35 ft. weir with 5.0 ft. weir height ID 19.3 (See Earthen Dam with Skimmer Detail)

Excavate Proposed Ditch according to Detail 25 from Sta. 268+54 to Sta. 270+00 –L– LT

50 x 100 x 3 19 ft. weir (See Infiltration Basin Detail) ID 19.1

1.5 inch Skimmer with 1.25 inch Orifice Diameter 20 ft. weir with 4.0 ft. weir height ID 19.2 (See Earthen Dam with Skimmer Detail)

Excavate Proposed Ditch according to Detail 30 from Sta. 268+47 to Sta. 269+50 –L– RT

LATERAL 3' BASE DITCH SEE DETAIL 25

CL B RIP RAP EST 2 TONS EST 7 SY GF

CL I RIP RAP EST 3 TONS EST 7 SY GF

CL I RIP RAP EST 48 TONS EST 89 SY GF

CL B RIP RAP EST 2 TONS EST 7 SY GF

BURY INLET 1.0

GRADE TO DRAIN

PROP. GUIDERAIL

STANDARD 2' BASE DITCH SEE DETAIL 30

15" RCP III

15" RCP IV

15" CSP W/2 ELBOWS

SBG FROM STA. 275+65 –L– TO BEG. BRIDGE LT

SBG FROM STA. 277+06 –L– TO BEG. BRIDGE RT

TYPE M350

GRAU 350 TL-3

N 74° 58' 37" E

DETAIL 30
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground, B

Min. D = 2 Ft.
B = 4 Ft.

FROM STA. 268+47 –L– TO STA. 269+50 –L– RT

DETAIL 25
LATERAL BASE DITCH
(Not to Scale)

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

Min. D = 2 Ft.
B = 3 Ft.
Min. b = 5 Ft.

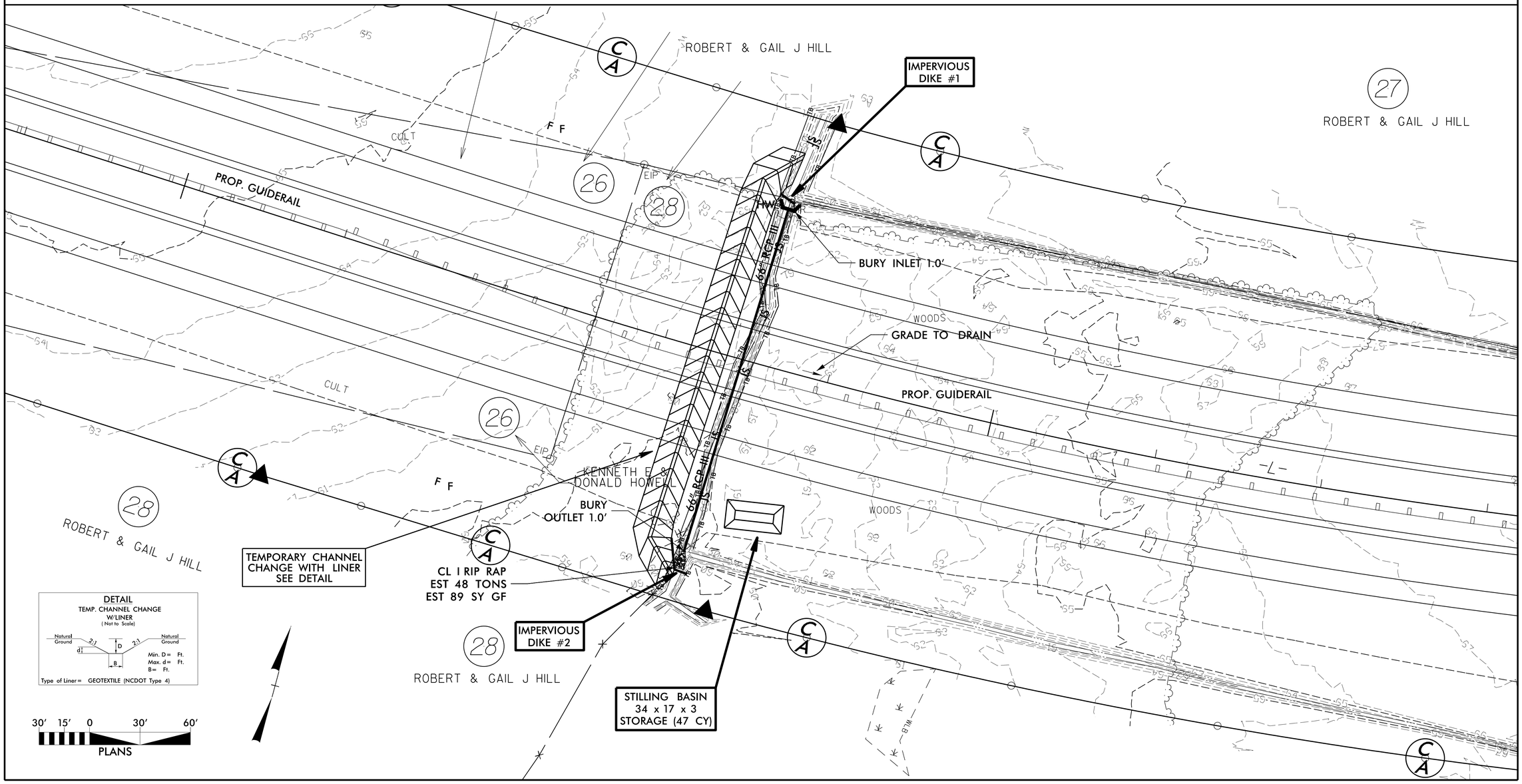
FROM STA. 268+54 –L– TO STA. 270+00 –L– LT
FROM STA. 272+40 –L– TO STA. 279+00 –L– LT

FOR –L– PROFILE SEE SHEET 39

66" RCP CONSTRUCTION SEQUENCE STA. 268+48 –L– UT TO STONYTON CREEK

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-19A/CONST J9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1.) CONSTRUCT STILLING BASIN (MIN. CAP. 47 CY).
2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (SEE DETAIL).
3.) INSTALL IMPERVIOUS DIKES #1 AND #2 AND DIVERT FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4.) DEWATER CONSTRUCTION AREA.
5.) CONSTRUCT PROPOSED 66" RCP, HEADWALL AND OUTLET CLASS I RIP RAP IN ACCORDANCE WITH THE PLANS.
6.) REMOVE IMPERVIOUS DIKES #1 AND #2, TEMPORARY CHANNEL #1 AND DIRECT FLOW THROUGH 66" RCP.
7.) COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-20/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

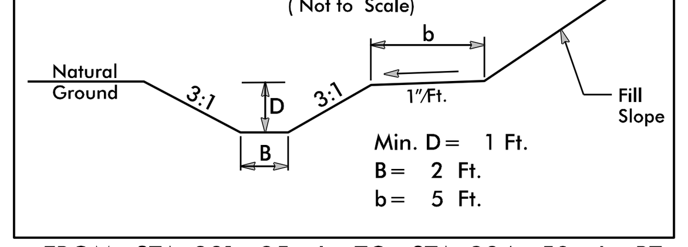
REVISIONS

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 20

DETAIL 28

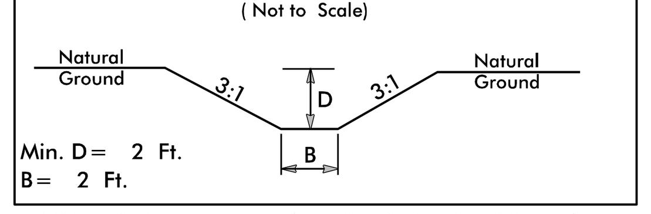
LATERAL BASE DITCH
(Not to Scale)



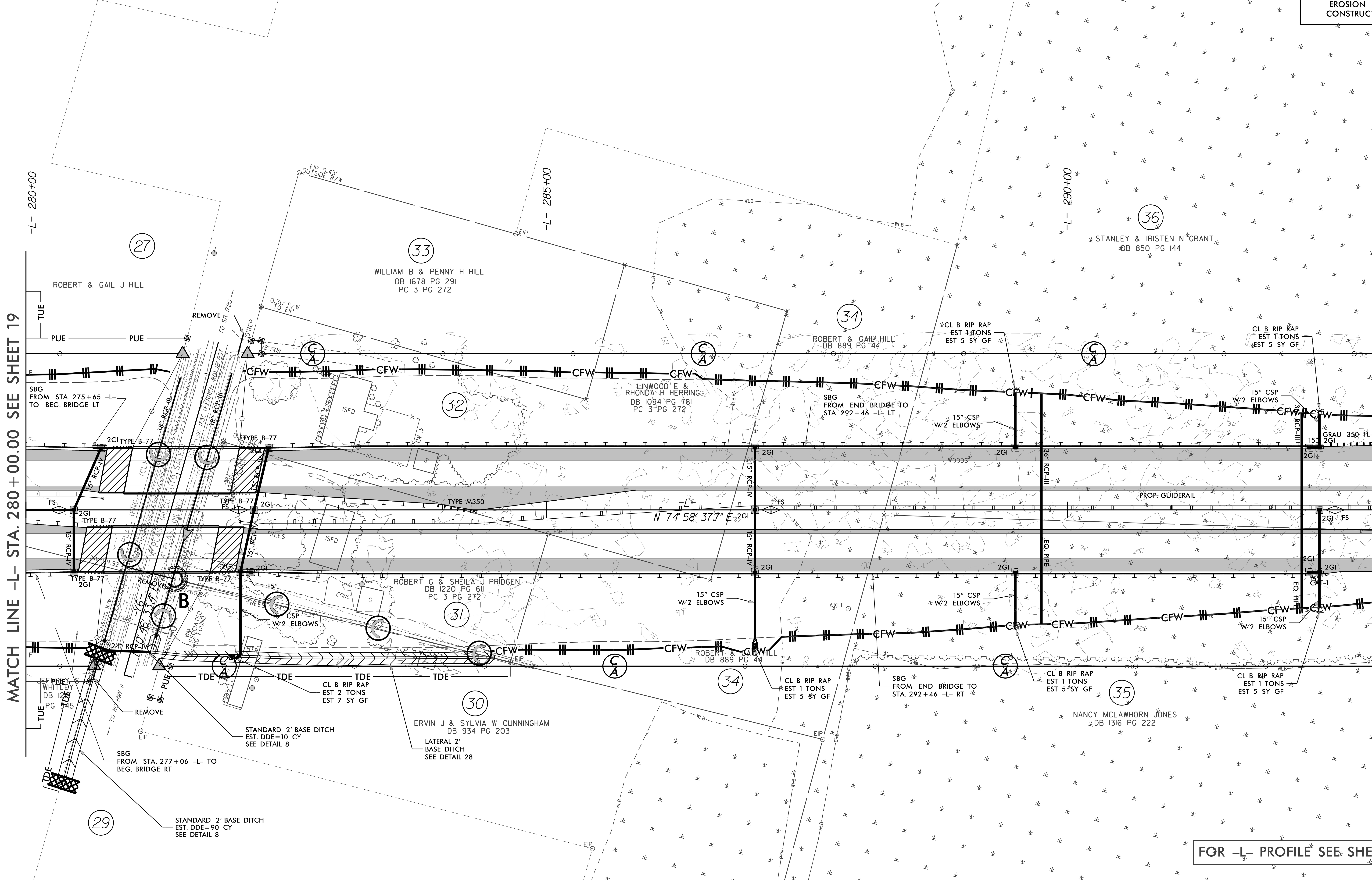
FROM STA. 281+25 –L– TO STA. 284+50 –L– RT

DETAIL 8

STANDARD BASE DITCH
(Not to Scale)



FROM STA. 8+77 –Y6– TO STA. 10+28 –Y6– LT
FROM STA. 10+22 –Y6– TO STA. 10+46 –Y6– RT



MATCH LINE –L– STA. 280+00.00 SEE SHEET 19
MATCH LINE –L– STA. 293+00.00 SEE SHEET 21
–L– 280+00
–L– 285+00
–L– 290+00
27
ROBERT & GAIL J HILL
33
WILLIAM B & PENNY H HILL
DB 1678 PG 291
PC 3 PG 272
36
STANLEY & IRISTEN N GRANT
DB 850 PG 144
34
ROBERT & GAIL HILL
DB 889 PG 44
32
LINWOOD E & RHONDA H HERRING
DB 1094 PG 781
PC 3 PG 272
31
ROBERT G & SHEILA J PRIDGEN
DB 1220 PG 611
PC 3 PG 272
30
ERVIN J & SYLVIA W CUNNINGHAM
DB 934 PG 203
35
NANCY MCLAWHORN JONES
DB 1316 PG 222
29
TUE
PUE
REMOVE
SBG FROM STA. 275+65 –L– TO BEG. BRIDGE LT
SBG FROM STA. 292+46 –L– LT
SBG FROM END BRIDGE TO STA. 292+46 –L– RT
SBG FROM STA. 277+06 –L– TO BEG. BRIDGE RT
CFW
TDE
2GI
TYPE B-77
TYPE M350
N 74° 58' 37.7" E
FS
PROP. GUIDERAIL
CL B RIP RAP EST 1 TONS EST 5 SY GF
CL B RIP RAP EST 2 TONS EST 7 SY GF
15" CSP W/2 ELBOWS
18" CSP W/2 ELBOWS
15" RCP-IV
18" RCP-III
24" RCP-IV
36" RCP-III
EQ. PIPE
GRAU 350 TL-3
ISFD
TREES
CONC
AXLE
STANDARD 2' BASE DITCH EST. DDE=10 CY SEE DETAIL 8
STANDARD 2' BASE DITCH EST. DDE=90 CY SEE DETAIL 8
LATERAL 2' BASE DITCH SEE DETAIL 28
EIP

FOR –L– PROFILE SEE SHEET 39 & 40

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-21/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21

REVISIONS

MATCH LINE –L– STA. 293+00.00 SEE SHEET 20

MATCH LINE –L– STA. 306+00.00 SEE SHEET 22

–L– 295+00

–L– 300+00

–L– 305+00

36
STANLEY & IRISTEN N GRANT
DB 850 PG 144

35
NANCY MCLAWHORN JONES
DB 1316 PG 222

WLB

CFW

CL B RIP RAP
EST 1 TONS
EST 5 SY GF

36" RCP-III

15" RCP-III

EQ. PIPE

WOODS

PROP. GUIDERAIL

FS

2GI

–L–

N 74° 58' 37.7" E

CA

FOR –L– PROFILE SEE SHEET 40

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-22/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 22

REVISIONS

MATCH LINE –L– STA. 306+00.00 SEE SHEET 21

MATCH LINE –L– STA. 319+00.00 SEE SHEET 23

–L– STA. 310+00

–L– STA. 315+00

STANLEY & IRISTEN N GRANT
DB 850 PG 144
36

CHERYL O HILL HEIRS &
BRENDA O WOODARD
DB 850 PG 140
37

NANCY MCLAWHORN JONES
DB 1316 PG 222
35

N 74° 58' 37.7" E

CFW

CL B RIP RAP
EST 1 TONS
EST 5 SY GF

CL B RIP RAP
EST 2 TONS
EST 7 SY GF

36" RCP III

15" RCP III

38" RCP III

END PIPE

PROP. GUIDERAIL

2GI

FS

PUE

CULT

66 x 33 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 22.1

FOR –L– PROFILE SEE SHEET 40 & 41

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-23/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

CLEAN WATER DIVERSION

CWD — CWD — CWD — CWD — CWD — CWD — CWD

(Not to Scale)

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 23

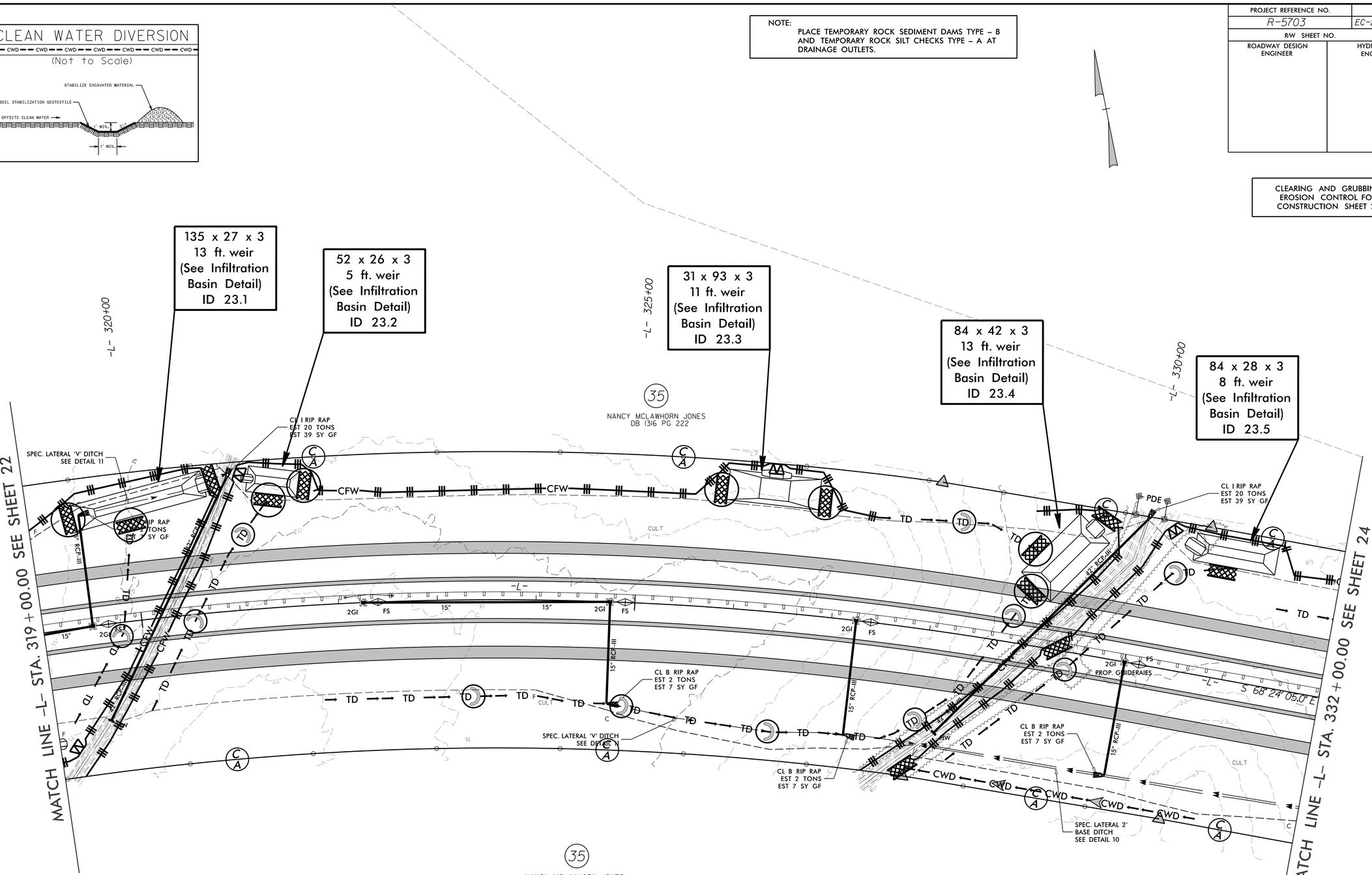
135 x 27 x 3
13 ft. weir
(See Infiltration Basin Detail)
ID 23.1

52 x 26 x 3
5 ft. weir
(See Infiltration Basin Detail)
ID 23.2

31 x 93 x 3
11 ft. weir
(See Infiltration Basin Detail)
ID 23.3

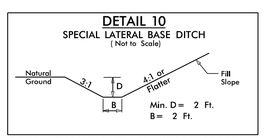
84 x 42 x 3
13 ft. weir
(See Infiltration Basin Detail)
ID 23.4

84 x 28 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 23.5



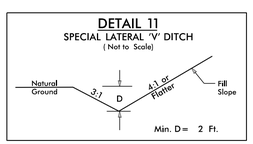
35
NANCY MCLAWHORN JONES
DB 1316 PG 222

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 328+07 -L- TO STA. 336+00 -L- RT

DETAIL 11
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 319+50 -L- TO STA. 321+00 -L- LT
FROM STA. 324+75 -L- TO STA. 328+02 -L- RT

FOR -L- PROFILE SEE SHEET 41

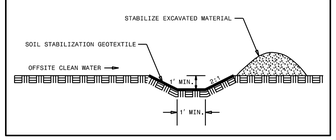
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-24/CONST.24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

CLEAN WATER DIVERSION

CWD — CWD — CWD — CWD — CWD — CWD — CWD

(Not to Scale)



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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 24

MATCH LINE –L– STA. 332+00.00 SEE SHEET 23

MATCH LINE –L– STA. 345+00.00 SEE SHEET 25

65 x 130 x 3
32 ft. weir
(See Infiltration Basin Detail)
ID 24.1

25 x 50 x 3
5 ft. weir
(See Infiltration Basin Detail)
ID 24.3

42 x 21 x 3
4 ft. weir
(See Infiltration Basin Detail)
ID 24.4

25 x 50 x 3
4 ft. weir
(See Infiltration Basin Detail)
ID 24.5

36 x 72 x 3
9 ft. weir
(See Infiltration Basin Detail)
ID 24.2

21 x 42 x 3
4 ft. weir
(See Infiltration Basin Detail)
ID 24.6

–L– 335+00

–L– 340+00

–L– 345+00

FROM STA. 335+13 –L– TO BEG. BRIDGE LT

SBG FROM STA. 337+00 –L– TO BEG. BRIDGE RT

SBG END BRIDGE TO STA. 347+27 –L– RT

SBG END BRIDGE TO STA. 20+27 –Y8RPB– RT

PROP. GUIDERAIL

FS 68° 24' 05.0" E

CL I RIP RAP
EST 7 TONS
EST 15 SY GF

GRAU 350 TL-3

SPEC. LATERAL 2' BASE DITCH SEE DETAIL 10

NANCY MCLAWHORN JONES DB 1316 PG 222

NANCY MCLAWHORN JONES ZONE 5

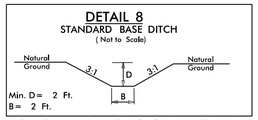
CANDAY FAMILY LLC

STANDARD 2' BASE DITCH EST. DDE=65 CY SEE DETAIL 8

TO NC HWY 11

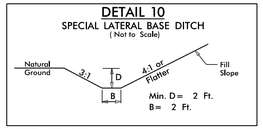
FOR –L– PROFILE SEE SHEET 41 & 42

DETAIL 8
STANDARD BASE DITCH
(Not to Scale)

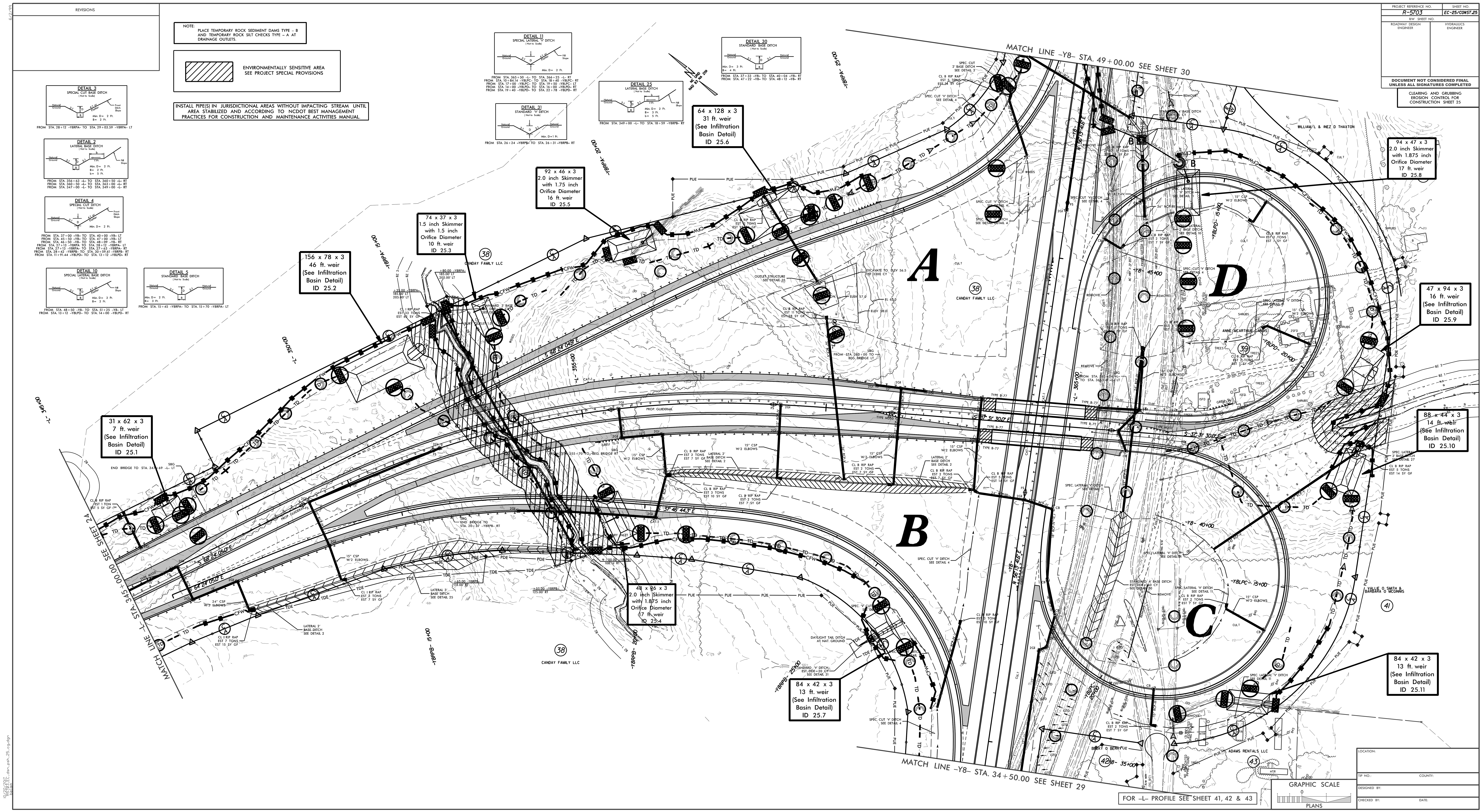


FROM STA. 10+25 –Y6– TO STA. 10+66 –Y7– RT

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 328+07 –L– TO STA. 336+00 –L– RT



REVISIONS
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
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.
DETAIL 3 SPECIAL CUT BASE DITCH
DETAIL 2 LATERAL BASE DITCH
DETAIL 4 SPECIAL CUT DITCH
DETAIL 10 SPECIAL LATERAL BASE DITCH
DETAIL 5 STANDARD BASE DITCH
DETAIL 11 SPECIAL LATERAL 'V' DITCH
DETAIL 31 STANDARD 'V' DITCH
DETAIL 25 LATERAL BASE DITCH
DETAIL 30 STANDARD BASE DITCH
MATCH LINE -Y8- STA. 49+00.00 SEE SHEET 30
MATCH LINE -Y8- STA. 34+50.00 SEE SHEET 29
MATCH LINE -L- STA. 345+00.00 SEE SHEET 24
A
B
C
D
31 x 62 x 3 7 ft. weir (See Infiltration Basin Detail) ID 25.1
156 x 78 x 3 46 ft. weir (See Infiltration Basin Detail) ID 25.2
74 x 37 x 3 1.5 inch Skimmer with 1.5 inch Orifice Diameter 10 ft. weir ID 25.3
48 x 26 x 3 2.0 inch Skimmer with 1.875 inch Orifice Diameter 17 ft. weir ID 25.4
92 x 46 x 3 2.0 inch Skimmer with 1.75 inch Orifice Diameter 16 ft. weir ID 25.5
64 x 128 x 3 31 ft. weir (See Infiltration Basin Detail) ID 25.6
84 x 42 x 3 13 ft. weir (See Infiltration Basin Detail) ID 25.7
94 x 47 x 3 2.0 inch Skimmer with 1.875 inch Orifice Diameter 17 ft. weir ID 25.8
47 x 94 x 3 16 ft. weir (See Infiltration Basin Detail) ID 25.9
88 x 44 x 3 14 ft. weir (See Infiltration Basin Detail) ID 25.10
84 x 42 x 3 13 ft. weir (See Infiltration Basin Detail) ID 25.11
CANDAY FAMILY LLC
WILLIAM L & INEZ D THAXTON
ANNE MCARTHUR CARRIS
ADAMS RENTALS LLC
FOR -L- PROFILE SEE SHEET 41, 42 & 43
GRAPHIC SCALE
PLANS
PROJECT REFERENCE NO.
R-5703
SHEET NO.
EC-25/CONST.25
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 25
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-26/CONST.26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

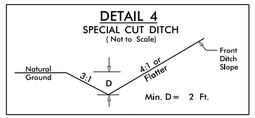
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 26

REVISIONS

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

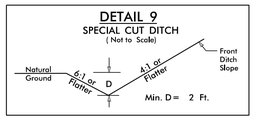
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

DETAIL 4
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 10+42 –SERV1– TO STA. 11+41 –SERV1– LT
FROM STA. 11+90 –SERV1– TO STA. 16+60 –SERV1– RT

DETAIL 9
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 15+50 –Y1– TO STA. 16+43 –Y1– RT
FROM STA. 15+50 –Y1– TO STA. 16+75 –Y1– LT

ROBERT GILMER FOSTER, ET AL

3

44 x 88 x 3
14 ft. weir
(See Infiltration Basin Detail)
ID 26.1

MATCH LINE –SERV1– STA. 18+00.00 SEE SHEET 6

–SERV1– 15+00

CL I RIP RAP
EST 57 TONS
EST 104 SY GF

BURY OUTLET 1.0'

BURY INLET 1.0'

SPEC. CUT 'V' DITCH SEE DETAIL 4

S 47° 37' 20.5" E

N 70° 37' 22.5" E

S 19° 22' 37.5" E

–Y1– 15+00

–Y1– 20+00

NEUSE REGIONAL WATER & SEWER

WATER LIFT STATION

SPEC. CUT 'V' DITCH SEE DETAIL 9

REMOVE

INV.=71.79'

INV. IN=58.01'

INV. IN=57.41'

INV.=69.74'

TOP=75.30'

TOP=74.50'

INV. OUT=57.82'

PROP. 48" WOVEN WIRE FENCE LINE

56
N.C. GLOBAL TRANSPARK AUTHORITY

2
L. C. MOSELEY, HEIRS

3

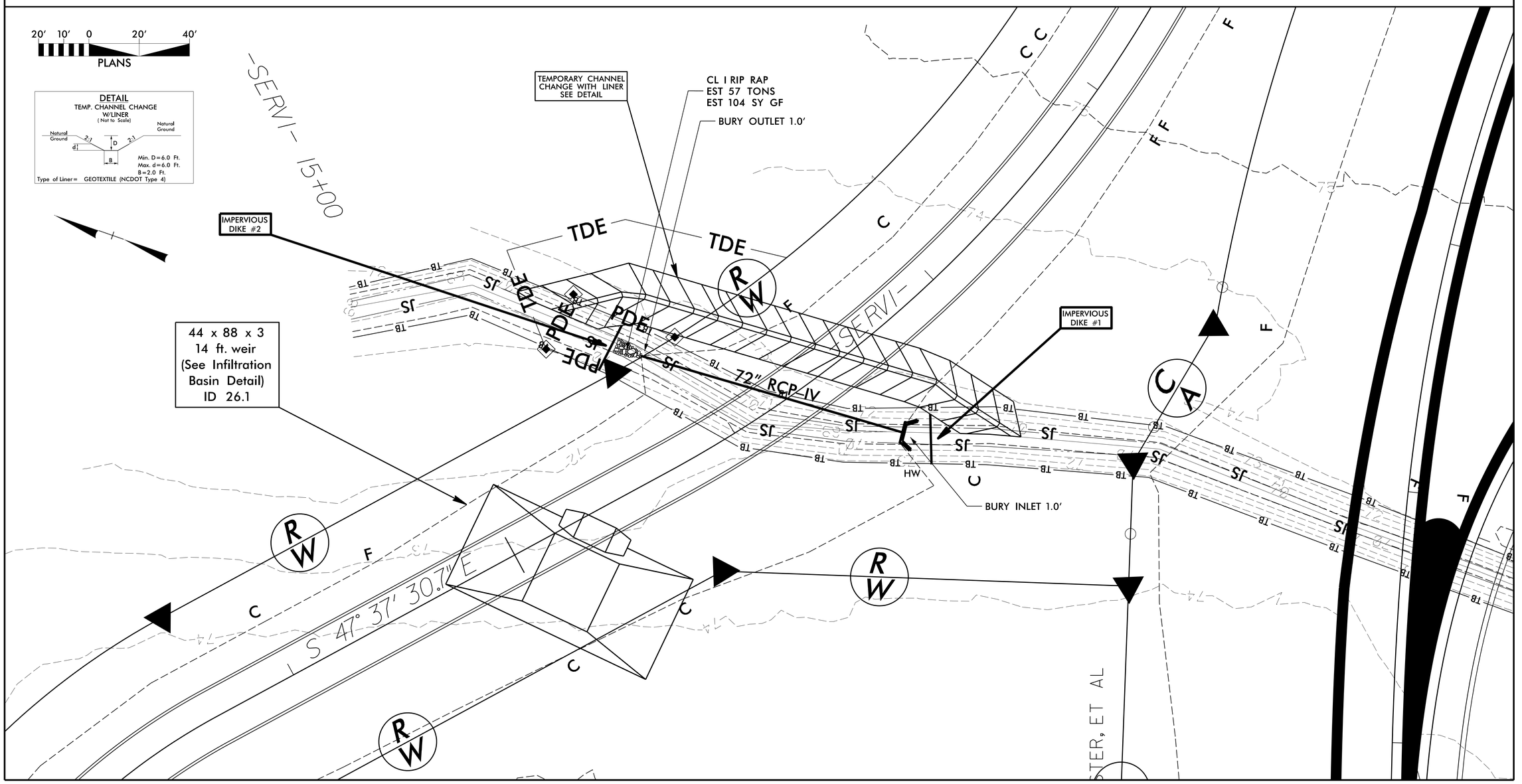
MATCH LINE –Y1– STA. 21+00.00 SEE SHEET 6

FOR –Y1– PROFILE SEE SHEET 6, 43 & 44

72" RCP CONSTRUCTION SEQUENCE STA. 16+20 –SERV1– UT TO STONYTON CREEK

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-26A/CONST.26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1.) CONSTRUCT INFILTRATION BASIN 26.1.
2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (SEE DETAIL).
3.) INSTALL IMPERVIOUS DIKES #1 AND #2 AND DIVERT FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4.) DEWATER CONSTRUCTION AREA, UTILIZING INFILTRATION BASIN 26.1 AS STILLING BASIN.
5.) CONSTRUCT PROPOSED 72" RCP, HEADWALL AND OUTLET CLASS I RIP RAP IN ACCORDANCE WITH THE PLANS.
6.) REMOVE IMPERVIOUS DIKES #1 AND #2, TEMPORARY CHANNEL #1 AND DIRECT FLOW THROUGH 72" RCP.
7.) COMPLETE ROADWAY.



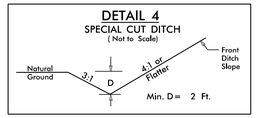
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-27/CONST.27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 27

REVISIONS

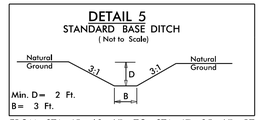
MATCH LINE –Y1– STA. 37+00.00 SEE SHEET 6

DETAIL 4
SPECIAL CUT DITCH
(Not to Scale)



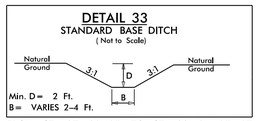
FROM STA. 44+90 –Y1– TO STA. 45+69 –Y1– RT
FROM STA. 44+90 –Y1– TO STA. 45+50 –Y1– LT
FROM STA. 37+71 –Y1– TO STA. 38+71 –Y1– RT

DETAIL 5
STANDARD BASE DITCH
(Not to Scale)



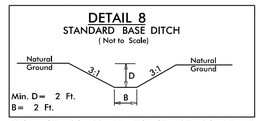
FROM STA. 45+69 –Y1– TO STA. 47+35 –Y1– RT
FROM STA. 38+64 –Y1– TO STA. 38+83 –Y1– LT

DETAIL 33
STANDARD BASE DITCH
(Not to Scale)

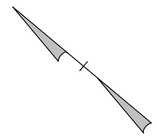


FROM STA. 37+90 –Y1– TO STA. 38+24 –Y1– RT

DETAIL 8
STANDARD BASE DITCH
(Not to Scale)



FROM STA. 36+03 –Y1– TO STA. 37+26 –Y1– LT



–Y1– 45+00

–Y1– 50+00

–EY1– 55+00

S 51° 19' 50.6" W

S 39° 56' 25.3" E

S 39° 56' 25.3" E

SR 1730 HUMPHREY ROAD

NC HWY 58 27.5' BST

NC HWY 58 27.4' BST

ISF CHURCH

GRAVEL

GEORGE KNOTT McCLEARY

L. C. MOSELEY, HEIRS

MILDRED K. CUNNINGH

STANDARD 2' BASE DITCH
EST. DDE=100 CY
SEE DETAIL 8

STANDARD 3' BASE DITCH
EST DDE=56 CY
SEE DETAIL 5

CLEAN OUT CHANNEL

CL B RIP RAP
EST 5 TONS
EST 15 SY GF

FILL EXIST DITCH
TO ELEV 77.5
EST 58 CY

SPEC. CUT 'V' DITCH
SEE DETAIL 4

SCOUR EXTEND
2 @ 18" RCP-III

RETAIN

CLEANOUT EXIST PIPES

SCOUR & EXTEND
2 @ 18" RCP-III

REMOVE

STANDARD 2'-4' BASE DITCH
EST DDE=36 CY
SEE DETAIL 33

CLASS 'B' RIP RAP
EST 5 TONS
EST 14 SY GF

STANDARD 3' BASE DITCH
SEE DETAIL 5

120 x 20 x 3
12 ft. weir
(See Infiltration
Basin Detail)
ID 27.1

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

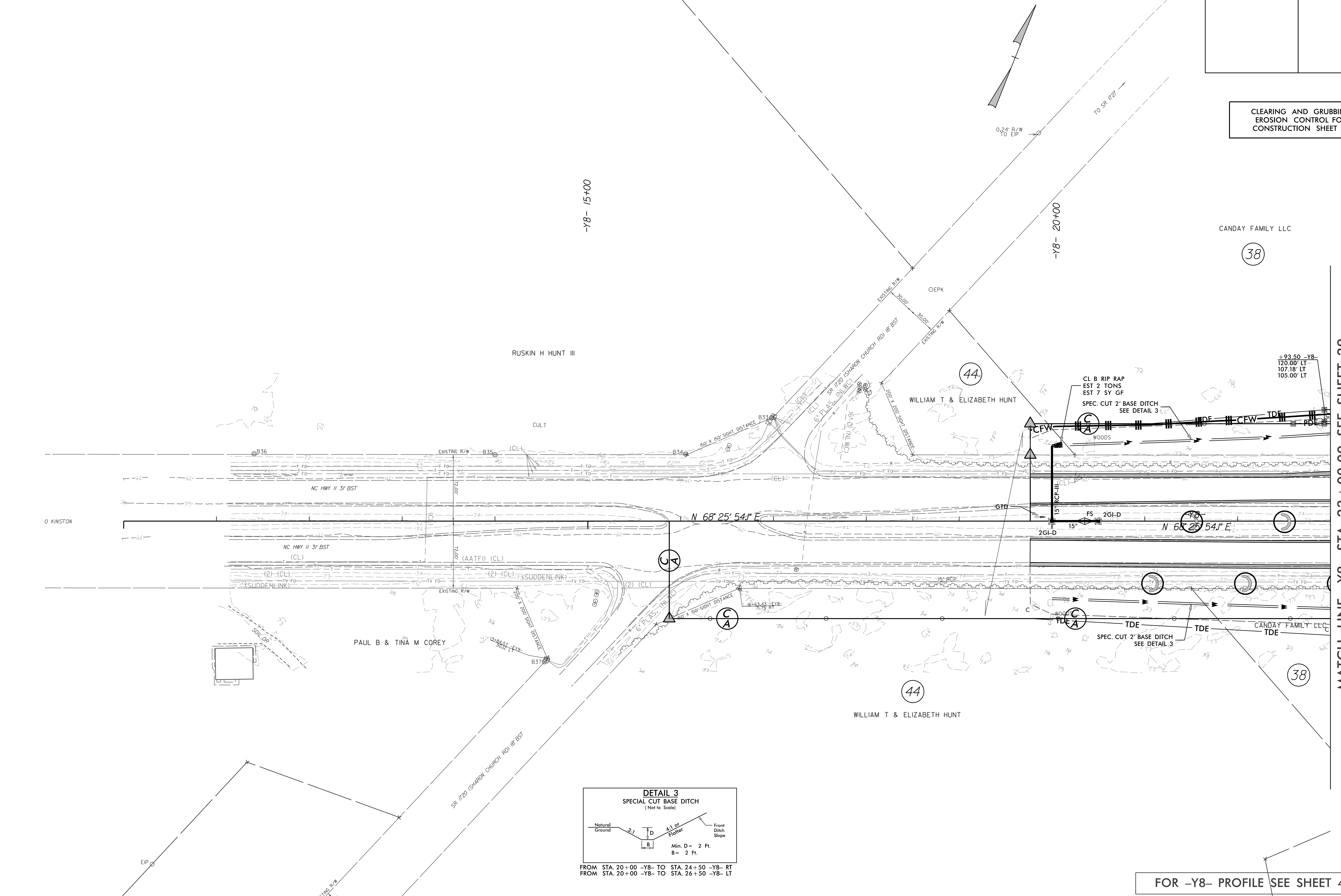
FOR –Y1– PROFILE SEE SHEET 44

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-28/CONST.28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 28

REVISIONS



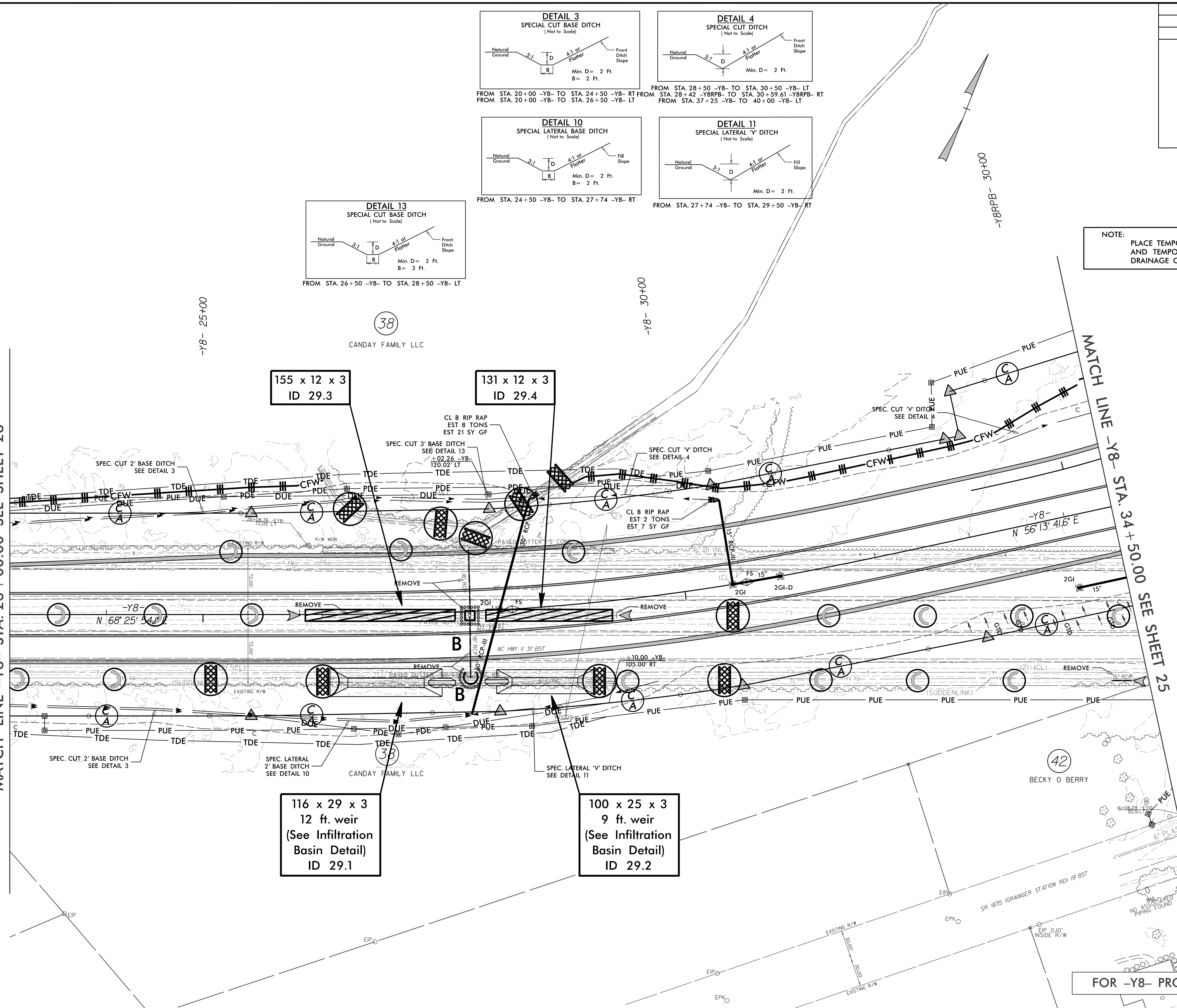
-Y8- 15+00
-Y8- 20+00
TO SR 1727
0.24' R/W TO EIP
EXISTING R/W
30.00'
OEPK
CANDAY FAMILY LLC
38
RUSKIN H HUNT III
44
WILLIAM T & ELIZABETH HUNT
SR 1720 (SHARON CHURCH RD) 18' BST
6" PLAS. (NLWC)
150' x 150' SIGHT DISTANCE
200' x 200' SIGHT DISTANCE
CULT
B36
B35
B34
B33
B37
NC HWY 11 31' BST
O KINSTON
N 68° 25' 54.1" E
(AATFI) (CL)
(SUDDENLINK)
PAUL B & TINA M COREY
SOIL DR
CL B RIP RAP
EST 2 TONS
EST 7 SY GF
SPEC. CUT 2' BASE DITCH
SEE DETAIL 3
CFW
TDE
PDE
WOODS
15" RCP-III
GTD
FS
2GI-D
15"
15" RCP
+93.50 -Y8-
120.00' LT
107.18' LT
105.00' LT
CANDAY FAMILY LLC
MATCH LINE -Y8- STA. 23+00.00 SEE SHEET 29
EIP
DETAIL 3
SPECIAL CUT BASE DITCH
(Not to Scale)
Natural Ground
3:1
D
B
4:1 or Flatter
Front Ditch Slope
Min. D= 2 Ft.
B= 2 Ft.
FROM STA. 20+00 -Y8- TO STA. 24+50 -Y8- RT
FROM STA. 20+00 -Y8- TO STA. 26+50 -Y8- LT

FOR -Y8- PROFILE SEE SHEET 48

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-29/CONST.29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 29

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



DETAIL 3
SPECIAL CUT BASE DITCH
(Not to Scale)
Natural Ground
3:1
D
B
4:1 or Flatter
Front Ditch Slope
Min. D = 2 Ft.
B = 2 Ft.
FROM STA. 20+00 -Y8- TO STA. 24+50 -Y8- RT
FROM STA. 20+00 -Y8- TO STA. 26+50 -Y8- LT
DETAIL 4
SPECIAL CUT DITCH
(Not to Scale)
Min. D = 2 Ft.
FROM STA. 28+50 -Y8- TO STA. 30+50 -Y8- LT
FROM STA. 28+42 -Y8RPB- TO STA. 30+59.61 -Y8RPB- RT
FROM STA. 37+25 -Y8- TO 40+00 -Y8- LT
DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Fill Slope
Min. D = 2 Ft.
B = 2 Ft.
FROM STA. 24+50 -Y8- TO STA. 27+74 -Y8- RT
DETAIL 11
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Min. D = 2 Ft.
FROM STA. 27+74 -Y8- TO STA. 29+50 -Y8- RT
DETAIL 13
SPECIAL CUT BASE DITCH
(Not to Scale)
Min. D = 2 Ft.
B = 3 Ft.
FROM STA. 26+50 -Y8- TO STA. 28+50 -Y8- LT
-Y8RPB- 30+00
-Y8- 25+00
-Y8- 30+00
38
CANDAY FAMILY LLC
155 x 12 x 3
ID 29.3
131 x 12 x 3
ID 29.4
CL B RIP RAP
EST 8 TONS
EST 21 SY GF
SPEC. CUT 3' BASE DITCH
SEE DETAIL 13
SPEC. CUT 2' BASE DITCH
SEE DETAIL 3
SPEC. CUT 'V' DITCH
SEE DETAIL 4
CL B RIP RAP
EST 2 TONS
EST 7 SY GF
-Y8-
N 56°13' 41.6" E
N 68°25' 54.1" E
REMOVE
MATCH LINE -Y8- STA. 23+00.00 SEE SHEET 28
MATCH LINE -Y8- STA. 34+50.00 SEE SHEET 25
SPEC. LATERAL
2' BASE DITCH
SEE DETAIL 10
SPEC. LATERAL 'V' DITCH
SEE DETAIL 11
116 x 29 x 3
12 ft. weir
(See Infiltration Basin Detail)
ID 29.1
100 x 25 x 3
9 ft. weir
(See Infiltration Basin Detail)
ID 29.2
42
BECKY O BERRY
SR 1835 (GRAINGER STATION RD) 19' BST
NC HWY 11 31' BST

FOR -Y8- PROFILE SEE SHEET 48

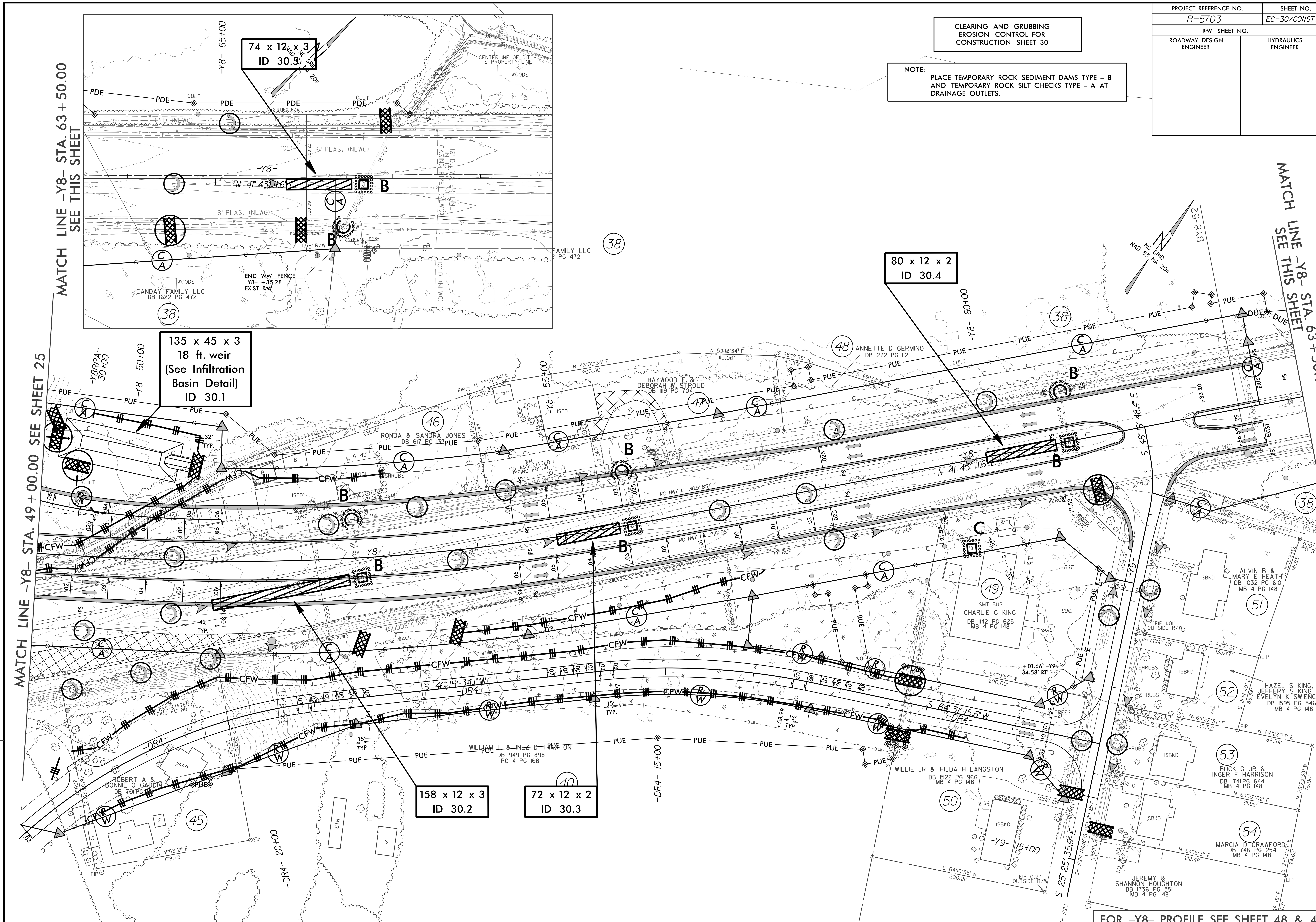
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-30/CONST.30
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

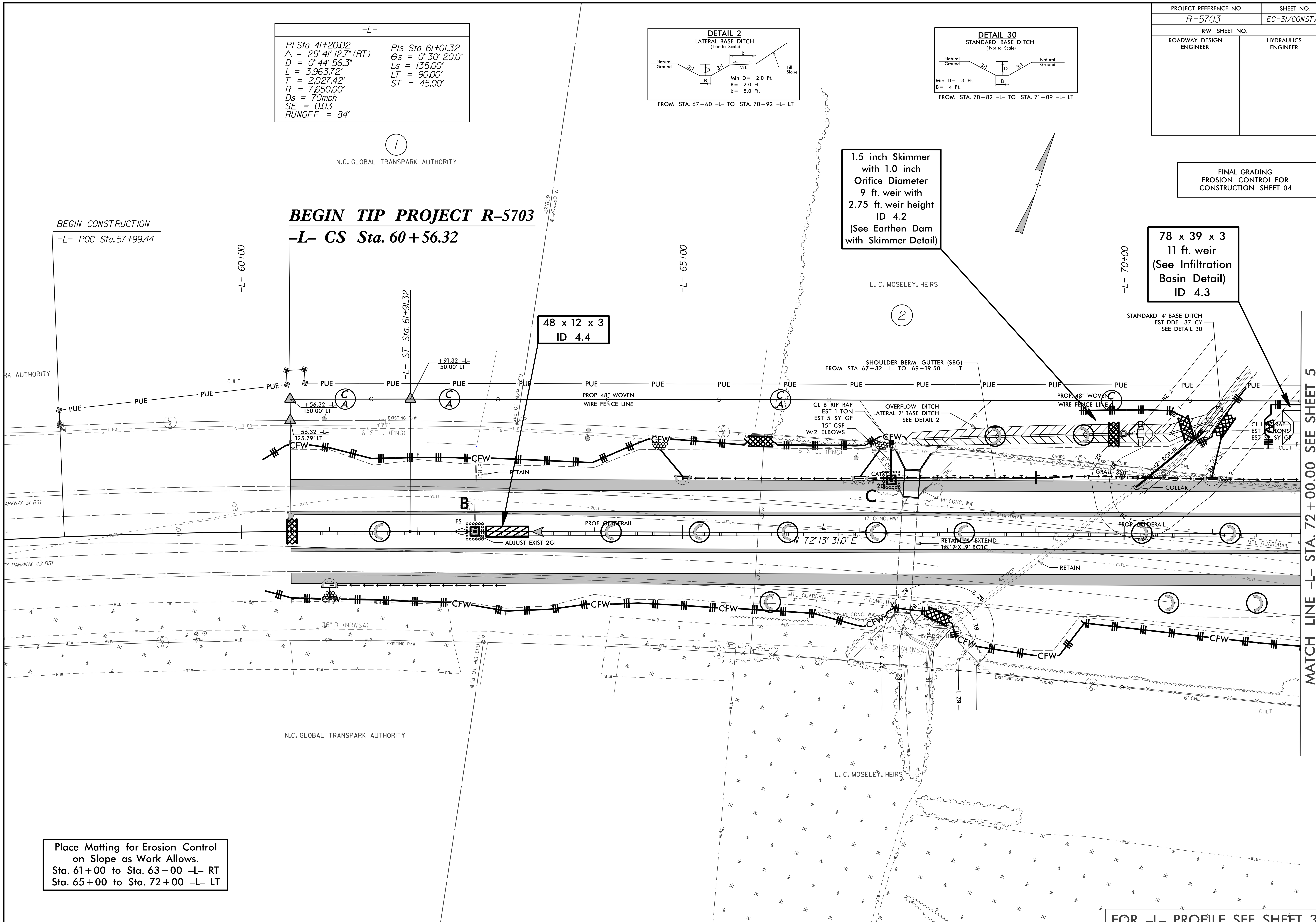
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 30

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



MATCH LINE -Y8- STA. 63+50.00 SEE THIS SHEET
MATCH LINE -Y8- STA. 49+00.00 SEE SHEET 25
74 x 12 x 3
ID 30.5
80 x 12 x 2
ID 30.4
135 x 45 x 3
18 ft. weir
(See Infiltration Basin Detail)
ID 30.1
158 x 12 x 3
ID 30.2
72 x 12 x 2
ID 30.3
CANDAY FAMILY LLC
DB 1622 PG 472
END WW FENCE
ANNETTE D GERMINO
DB 272 PG 112
HAYWOOD E. & DEBORAH W. STROUD
DB 1119 PG 704
RONDA & SANDRA JONES
DB 617 PG 133
CHARLIE G KING
DB 1142 PG 625
MB 4 PG 148
ALVIN B & MARY E HEATH
DB 1032 PG 610
MB 4 PG 148
HAZEL S KING, JEFFERY S KING & EVELYN K SWIENCKI
DB 1595 PG 546
MB 4 PG 148
BUCK G JR & INGER F HARRISON
DB 1741 PG 644
MB 4 PG 148
MARCIA D CRAWFORD
DB 746 PG 254
MB 4 PG 148
JEREMY & SHANNON HOUGHTON
DB 1736 PG 351
MB 4 PG 148
WILLIE JR & HILDA H LANGSTON
DB 1522 PG 966
MB 4 PG 148
WILLIAM J. & INEZ D TRIPLETON
DB 949 PG 898
PC 4 PG 168
ROBERT A & BONNIE O CADDIS
DB 701 PG
-Y8-
-DR4-
-Y9-
NC GRID NAD 83 NA 2011

FOR -Y8- PROFILE SEE SHEET 48 & 49


PROJECT REFERENCE NO. R-5703
SHEET NO. EC-31/CONST.04
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 04
-L-
PI Sta 41+20.02
△ = 29° 41' 12.7" (RT)
D = 0° 44' 56.3"
L = 3,963.72'
T = 2,027.42'
R = 7,650.00'
Ds = 70mph
SE = 0.03
RUNOFF = 84'
PIs Sta 61+01.32
θs = 0° 30' 20.0"
Ls = 135.00'
LT = 90.00'
ST = 45.00'
DETAIL 2
LATERAL BASE DITCH
(Not to Scale)
Min. D = 2.0 Ft.
B = 2.0 Ft.
b = 5.0 Ft.
FROM STA. 67+60 -L- TO STA. 70+92 -L- LT
DETAIL 30
STANDARD BASE DITCH
(Not to Scale)
Min. D = 3 Ft.
B = 4 Ft.
FROM STA. 70+82 -L- TO STA. 71+09 -L- LT
N.C. GLOBAL TRANSPARK AUTHORITY
BEGIN TIP PROJECT R-5703
-L- CS Sta. 60+56.32
BEGIN CONSTRUCTION
-L- POC Sta. 57+99.44
-L- ST Sta. 61+91.32
1.5 inch Skimmer with 1.0 inch Orifice Diameter 9 ft. weir with 2.75 ft. weir height ID 4.2 (See Earthen Dam with Skimmer Detail)
78 x 39 x 3 11 ft. weir (See Infiltration Basin Detail) ID 4.3
48 x 12 x 3 ID 4.4
L. C. MOSELEY, HEIRS
STANDARD 4' BASE DITCH EST DDE=37 CY SEE DETAIL 30
SHOULDER BERM GUTTER (SBG) FROM STA. 67+32 -L- TO 69+19.50 -L- LT
PROP. 48" WOVEN WIRE FENCE LINE
CL B RIP RAP EST 1 TON EST 5 SY GF
15" CSP W/2 ELBOWS
OVERFLOW DITCH LATERAL 2' BASE DITCH SEE DETAIL 2
ADJUST EXIST 2GI
RETAIN
RETAIN & EXTEND 1@17'X 9' RCBC
PROP. GUIDERAIL
COLLAR
N 72° 13' 31.0" E
MATCH LINE -L- STA. 72+00.00 SEE SHEET 5
Place Matting for Erosion Control on Slope as Work Allows.
Sta. 61+00 to Sta. 63+00 -L- RT
Sta. 65+00 to Sta. 72+00 -L- LT
FOR -L- PROFILE SEE SHEET 31

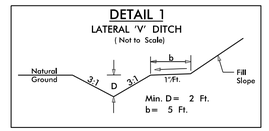
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-32/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

REVISIONS

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 72+00 to Sta. 75+00 –L– LT
Sta. 78+00 to Sta. 85+00 –L– LT
Sta. 80+50 to Sta. 85+00 –L– RT

DETAIL 1
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 80+35 –L– TO STA. 86+10 –L– LT

MATCH LINE –L– STA. 72+00.00 SEE SHEET 4

MATCH LINE –L– STA. 85+00.00 SEE SHEET 6

78 x 39 x 3
11 ft. weir
(See Infiltration
Basin Detail)
ID 4.3

53 x 106 x 3
22 ft. weir
(See Infiltration
Basin Detail)
ID 5.1

48 x 12 x 3
ID 5.4

24 x 12 x 2
ID 5.6

36 x 12 x 3
ID 5.8

–L– 75+00

–L– 80+00

–L– 85+00

2
L. C. MOSELEY, HEIRS

SHOULDER BERM GUTTER (SBG)
FROM STA. 80+32 –L– TO
BEG. BRIDGE LT

CL B RIP RAP
EST 2 TONS
EST 7 SY GF

CL I RIP RAP
EST 4 TONS
EST 10 SY GF

LATERAL 'V' DITCH
SEE DETAIL 1

PROP. 48" WOVEN
WIRE FENCE LINE

PROP. 36" WOVEN
WIRE FENCE LINE

15" CSP
W/2 ELBOWS

18" CSP
W/2 ELBOWS

PROP. GUIDERAIL

REMOVE

GRADE TO DRAIN (GTD)

SHOULDER BERM GUTTER (SBG)
FROM STA. 81+46 –L– TO
BEG. BRIDGE RT

GRAU 350 TL-3

RETAIN

GOOD CONDITION

NO FLOW
GRASS
n=0.045

156 x 12 x 3
ID 5.5

36 x 12 x 3
ID 5.7

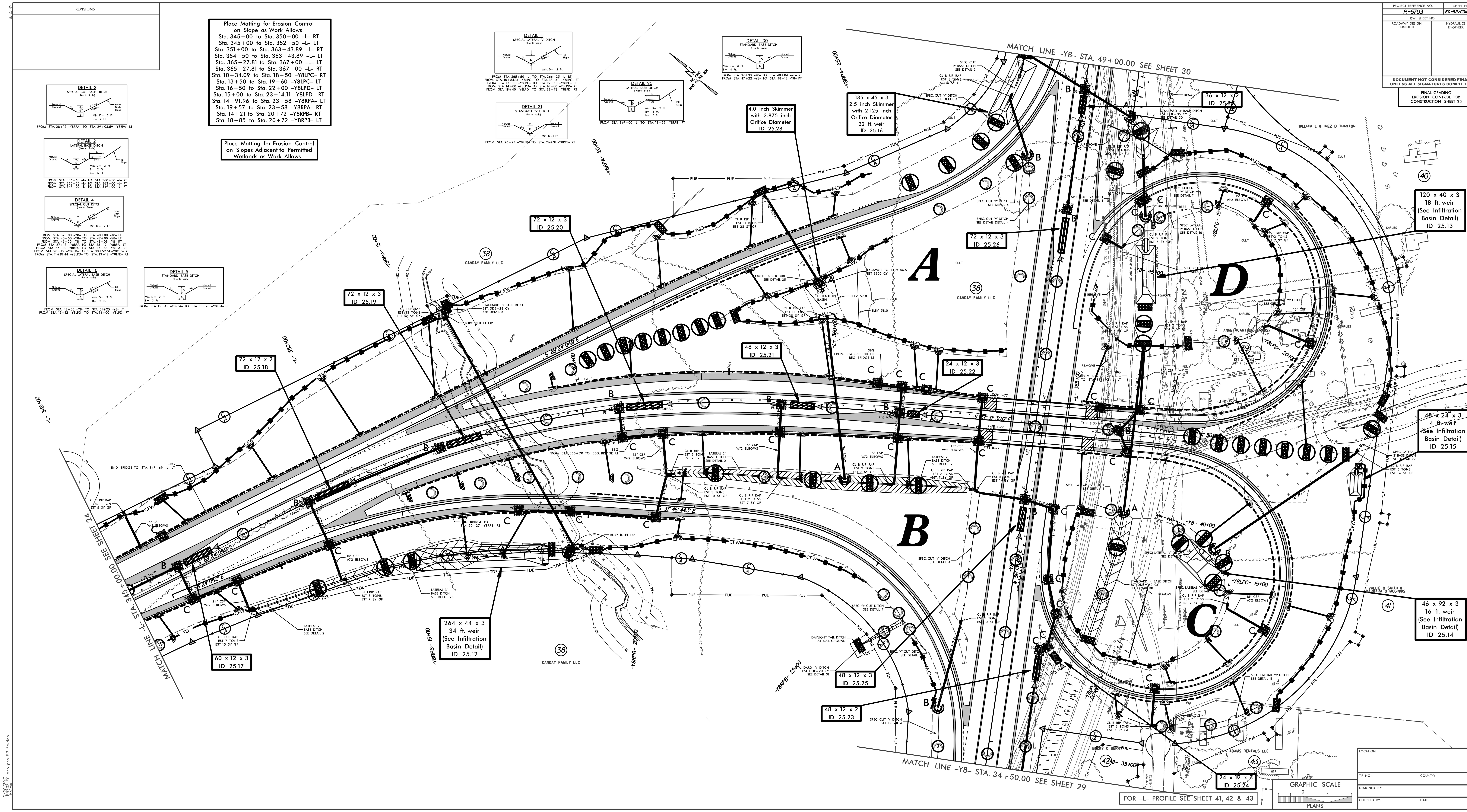
63 x 12 x 3
ID 5.9

102 x 34 x 3
13 ft. weir
(See Infiltration
Basin Detail)
ID 5.3

L. C. MOSELEY, HEIRS

2

FOR –L– PROFILE SEE SHEET 31 & 32



REVISIONS
PROJECT REFERENCE NO.
R-5703
SHEET NO.
EC-52/CONST.25
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 25
Place Matting for Erosion Control on Slope as Work Allows.
Sta. 345+00 to Sta. 350+00 –L– RT
Sta. 345+00 to Sta. 352+50 –L– LT
Sta. 351+00 to Sta. 363+43.89 –L– RT
Sta. 354+50 to Sta. 363+43.89 –L– LT
Sta. 365+27.81 to Sta. 367+00 –L– LT
Sta. 365+27.81 to Sta. 367+00 –L– RT
Sta. 10+34.09 to Sta. 18+50 –Y8LPC– RT
Sta. 13+50 to Sta. 19+60 –Y8LPC– LT
Sta. 16+50 to Sta. 22+00 –Y8LPD– LT
Sta. 15+00 to Sta. 23+14.11 –Y8LPD– RT
Sta. 14+91.96 to Sta. 23+58 –Y8RPA– LT
Sta. 19+57 to Sta. 23+58 –Y8RPA– RT
Sta. 14+21 to Sta. 20+72 –Y8RPB– RT
Sta. 18+85 to Sta. 20+72 –Y8RPB– LT
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
DETAIL 3
DETAIL 2
DETAIL 4
DETAIL 10
DETAIL 5
DETAIL 11
DETAIL 31
DETAIL 25
DETAIL 30
MATCH LINE –Y8– STA. 49+00.00 SEE SHEET 30
MATCH LINE –L– STA. 345+00.00 SEE SHEET 24
MATCH LINE –Y8– STA. 34+50.00 SEE SHEET 29
A
B
C
D
4.0 inch Skimmer with 3.875 inch Orifice Diameter ID 25.28
135 x 45 x 3 2.5 inch Skimmer with 2.125 inch Orifice Diameter 22 ft. weir ID 25.16
36 x 12 x 2 ID 25.27
120 x 40 x 3 18 ft. weir (See Infiltration Basin Detail) ID 25.13
72 x 12 x 3 ID 25.20
72 x 12 x 3 ID 25.26
72 x 12 x 3 ID 25.19
72 x 12 x 2 ID 25.18
48 x 12 x 3 ID 25.21
24 x 12 x 3 ID 25.22
48 x 24 x 3 4 ft. weir (See Infiltration Basin Detail) ID 25.15
46 x 92 x 3 16 ft. weir (See Infiltration Basin Detail) ID 25.14
264 x 44 x 3 34 ft. weir (See Infiltration Basin Detail) ID 25.12
60 x 12 x 3 ID 25.17
48 x 12 x 3 ID 25.25
48 x 12 x 2 ID 25.23
24 x 12 x 3 ID 25.24
CANDAY FAMILY LLC
WILLIAM L & INEZ D THAXTON
ADAMS RENTALS LLC
FOR –L– PROFILE SEE SHEET 41, 42 & 43
GRAPHIC SCALE
PLANS
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

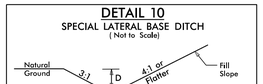
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-34/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 111+00 to Sta. 117+00 –L– LT
Sta. 121+50 to Sta. 124+00 –L– RT
Sta. 41+00 to Sta. 48+80 –SERV1– LT
Sta. 43+50 to Sta. 48+80 –SERV1– RT

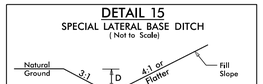
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 07

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 108+00 –L– TO STA. 117+00 –L LT

DETAIL 15
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 40+63 –SERV1– TO STA. 48+30 –SERV1– LT
FROM STA. 43+20 –SERV1– TO STA. 50+00 –SERV1– RT

MATCH LINE –SERV1– STA. 35+75.00 SEE SHEET 6

MATCH LINE –L– STA. 111+00.00 SEE SHEET 6

MATCH LINE –SERV1– STA. 48+80.00 SEE SHEET 8

MATCH LINE –L– STA. 124+00.00 SEE SHEET 8

ROBERT K. HILL, JR.

DEBRA A. STROUD, ET AL

FAYE GRANT HUMPHREY

CAROLYN ESTELLE HUMPHREY

CULT

–L– 115+00

–SERV1– 40+00

–L– 120+00

–SERV1– 45+00

N 75° 49' 43.6" E
–SERV1–

N 75° 49' 43.6" E
–L–

CFW

PDE

TSD

PROP. 48" WOVEN WIRE FENCE LINE

SPEC. LATERAL 3' BASE DITCH SEE DETAIL 10

SPEC. LATERAL 3' BASE DITCH SEE DETAIL 15

FILL EXIST DITCH TO ELEV 73.0 EST 24 CY

FILL EXIST DITCH TO ELEV 73.0 EST 23 CY

CL B RIP RAP EST 3 TONS EST 7 SY GF

CL B RIP RAP EST 1 TON EST 5 SY GF

PROP. GUIDERAIL

15" RCP

18" RCP

18" CMP

INV.=68.49'

INV.=66.96'

INV.=UNKNOWN

REMOVE

INV.=68.39'

INV.=70.79'

INV.=70.69'

INV.=70.33'

INV.=70.99'

EXISTING R/W

SR 1730 HUMPHREY ROAD 21.5' BST

30" DI (NRWSA)

RUINS

ISFD

TREE

32 x 96 x 3
12 ft. weir
(See Infiltration Basin Detail)
ID 7.1

60 x 12 x 3
ID 7.4

32 x 64 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 7.2

62 x 12 x 3
ID 7.5

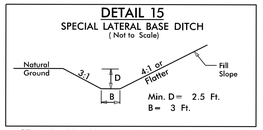
FOR –L– PROFILE SEE SHEET 33

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-35/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

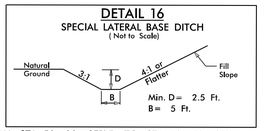
Place Matting for Erosion Control on Slope as Work Allows.
Sta. 124+00 to Sta. 127+00 –L– RT
Sta. 131+00 to Sta. 136+50 –L– LT
Sta. 132+50 to Sta. 136+50 –L– RT
Sta. 48+80 to Sta. 50+00 –SERV1– LT
Sta. 48+80 to Sta. 59+00 –SERV1– RT

DETAIL 15
SPECIAL LATERAL BASE DITCH
(Not to Scale)



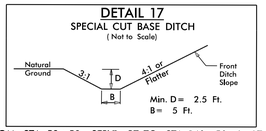
FROM STA. 43+20 –SERV1– TO STA. 50+00 –SERV1– RT

DETAIL 16
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 50+00 –SERV1– TO STA. 59+50 –SERV1– RT

DETAIL 17
SPECIAL CUT BASE DITCH
(Not to Scale)



FROM STA. 59+50 –SERV1– RT TO STA. 140+50 –L– LT

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08

MATCH LINE –SERV1– STA. 48+80.00
SEE SHEET 7

MATCH LINE –SERV1– STA. 61+30.00
SEE SHEET 9

MATCH LINE –L– STA. 124+00.00 SEE SHEET 7

MATCH LINE –L– STA. 136+00.00 SEE SHEET 9

FAYE GRANT HUMPHREY (7)

DICKERSON FARMS PROPERTY, LLC (8)

–SERV1– 50+00

–SERV1– 55+00

–SERV1– 60+00

–SERV1–

CULT

CFW

SPEC. LATERAL 3' BASE DITCH SEE DETAIL 15

SPEC. LATERAL 5' BASE DITCH SEE DETAIL 16

SPEC. CUT 5' BASE DITCH SEE DETAIL 17

CL B RIP RAP EST 1 TON EST 5 SY GF

125+00

130+00

135+00

151' RCP-III

PROP. GUIDERAIL

FS

20'

B

–L–

N 67° 34' 44.0" E

+72.18 –L–
150.00' RT

+52.03 –L–
136.56' RT

+01.90 –L–
137.37' RT

78.32
150.00' RT

MON.

EXISTING R/W

131 x 12 x 3
ID 8.4

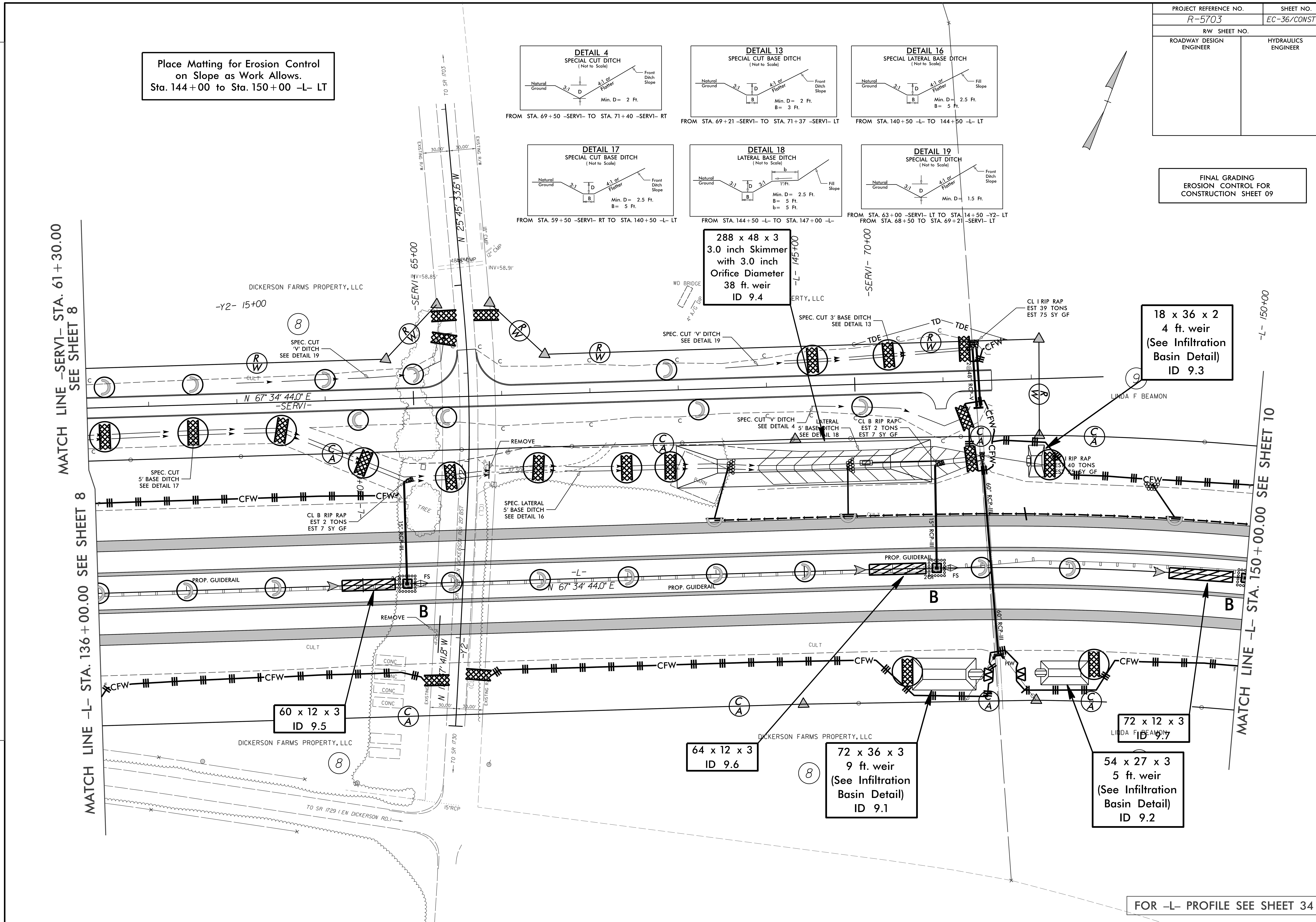
72 x 12 x 3
ID 8.5

40 x 80 x 3
12 ft. weir
(See Infiltration Basin Detail)
ID 8.2

38 x 76 x 3
11 ft. weir
(See Infiltration Basin Detail)
ID 8.3

WOODS

FOR –L– PROFILE SEE SHEET 33 & 34

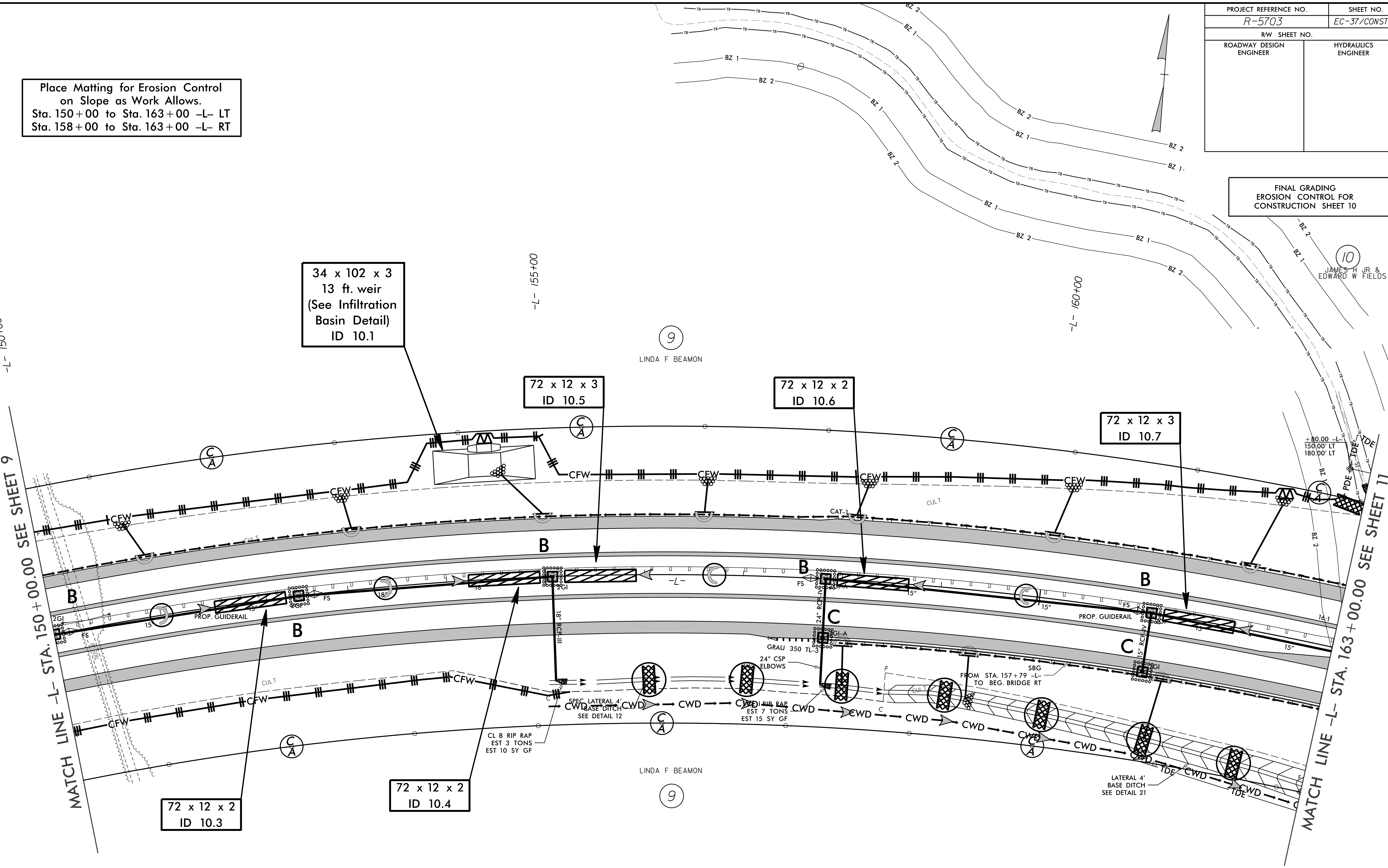


PROJECT REFERENCE NO.
R-5703
SHEET NO.
EC-36/CONST.09
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
REVISIONS
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09
Place Matting for Erosion Control on Slope as Work Allows. Sta. 144+00 to Sta. 150+00 -L- LT
DETAIL 4
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
Front Ditch Slope
Min. D= 2 Ft.
FROM STA. 69+50 -SERV1- TO STA. 71+40 -SERV1- RT
DETAIL 13
SPECIAL CUT BASE DITCH
(Not to Scale)
Min. D= 2 Ft.
B= 3 Ft.
FROM STA. 69+21 -SERV1- TO STA. 71+37 -SERV1- LT
DETAIL 16
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Fill Slope
Min. D= 2.5 Ft.
B= 5 Ft.
FROM STA. 140+50 -L- TO 144+50 -L- LT
DETAIL 17
SPECIAL CUT BASE DITCH
(Not to Scale)
Min. D= 2.5 Ft.
B= 5 Ft.
FROM STA. 59+50 -SERV1- RT TO STA. 140+50 -L- LT
DETAIL 18
LATERAL BASE DITCH
(Not to Scale)
Min. D= 2.5 Ft.
B= 5 Ft.
b= 5 Ft.
FROM STA. 144+50 -L- TO STA. 147+00 -L-
DETAIL 19
SPECIAL CUT DITCH
(Not to Scale)
Min. D= 1.5 Ft.
FROM STA. 63+00 -SERV1- LT TO STA. 14+50 -Y2- LT
FROM STA. 68+50 TO STA. 69+21 -SERV1- LT
288 x 48 x 3
3.0 inch Skimmer
with 3.0 inch
Orifice Diameter
38 ft. weir
ID 9.4
18 x 36 x 2
4 ft. weir
(See Infiltration Basin Detail)
ID 9.3
60 x 12 x 3
ID 9.5
64 x 12 x 3
ID 9.6
72 x 36 x 3
9 ft. weir
(See Infiltration Basin Detail)
ID 9.1
54 x 27 x 3
5 ft. weir
(See Infiltration Basin Detail)
ID 9.2
72 x 12 x 3
ID 9.7
MATCH LINE -SERV1- STA. 61+30.00 SEE SHEET 8
MATCH LINE -L- STA. 136+00.00 SEE SHEET 8
MATCH LINE -L- STA. 150+00.00 SEE SHEET 10
DICKERSON FARMS PROPERTY, LLC
LINDA F BEAMON
-Y2- 15+00
-SERV1- 65+00
-SERV1- 70+00
-L- 145+00
-L- 150+00
N 67° 34' 44.0" E
N 25° 45' 33.6" W
-SERV1-
-L-
-Y2-
SPEC. CUT 'V' DITCH SEE DETAIL 19
SPEC. CUT 5' BASE DITCH SEE DETAIL 17
SPEC. LATERAL 5' BASE DITCH SEE DETAIL 16
SPEC. CUT 3' BASE DITCH SEE DETAIL 13
SPEC. CUT 'V' DITCH SEE DETAIL 4
LATERAL 5' BASE DITCH SEE DETAIL 18
CL B RIP RAP EST 2 TONS EST 7 SY GF
CL I RIP RAP EST 39 TONS EST 75 SY GF
CL I RIP RAP EST 40 TONS EST 75 SY GF
PROP. GUIDERAIL
REMOVE
CFW
TDE
FS
HW
B
15" RCP-III
60" RCP-III
TO SR 1703
TO SR 1730
TO SR 1729 (EN DICKERSON RD.)
FOR -L- PROFILE SEE SHEET 34

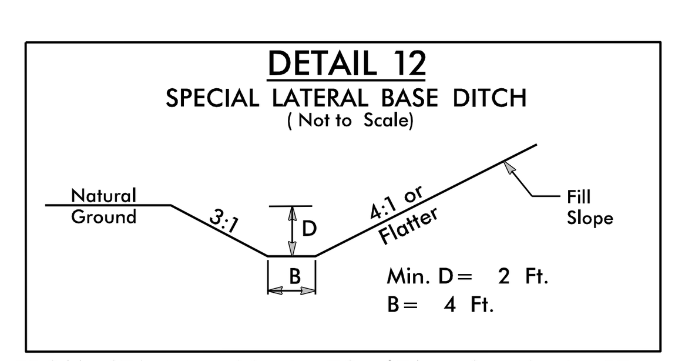
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-37/CONSTJO
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

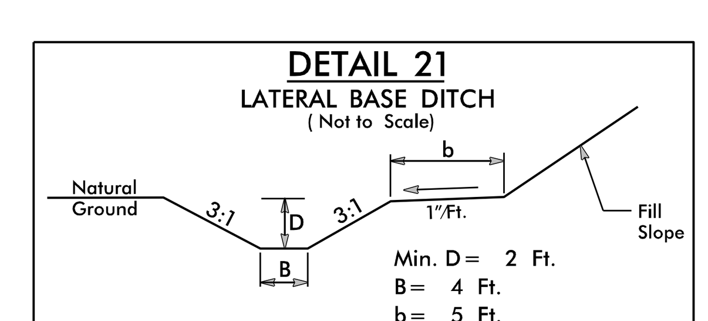
Place Matting for Erosion Control on Slope as Work Allows.
Sta. 150+00 to Sta. 163+00 -L- LT
Sta. 158+00 to Sta. 163+00 -L- RT



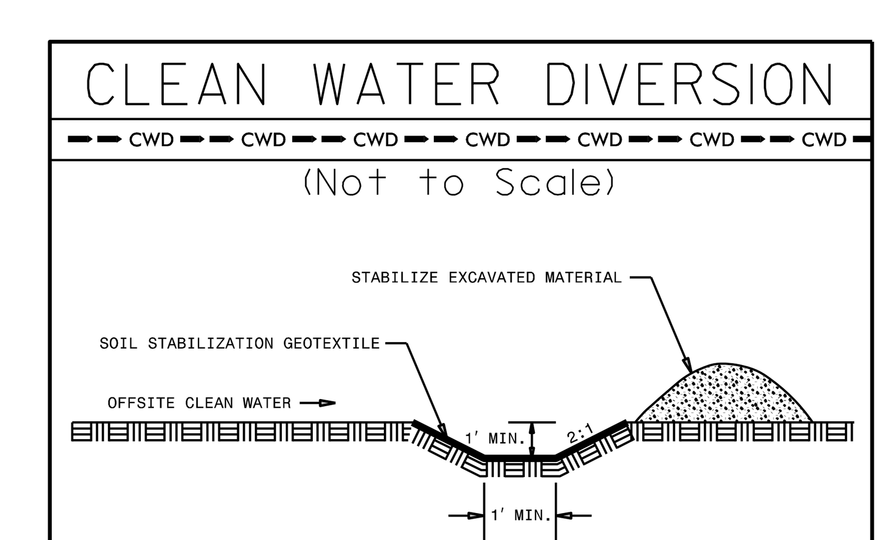
34 x 102 x 3
13 ft. weir
(See Infiltration Basin Detail)
ID 10.1
72 x 12 x 3
ID 10.5
72 x 12 x 2
ID 10.6
72 x 12 x 3
ID 10.7
72 x 12 x 2
ID 10.3
72 x 12 x 2
ID 10.4
-L- 150+00
-L- 155+00
-L- 160+00
LINDA F BEAMON
JAMES H JR & EDWARD W FIELDS
MATCH LINE -L- STA. 150+00.00 SEE SHEET 9
MATCH LINE -L- STA. 163+00.00 SEE SHEET 11
PROP. GUIDERAIL
CFW
CWD
CL B RIP RAP
EST 3 TONS
EST 10 SY GF
SPEC. LATERAL 4' BASE DITCH
SEE DETAIL 12
EST 7 TONS
EST 15 SY GF
GRAU 350 TL-3
24" CSP ELBOWS
SBG
FROM STA. 157+79 -L- TO BEG. BRIDGE RT
LATERAL 4' BASE DITCH
SEE DETAIL 21
+80.00 -L-
150.00' LT
180.00' LT



FROM STA. 155+00 -L- TO STA. 158+50 -L- RT



FROM STA. 158+50 -L- TO STA. 164+50 -L- RT



FOR -L- PROFILE SEE SHEET 34 & 35

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-38/CONSTJI

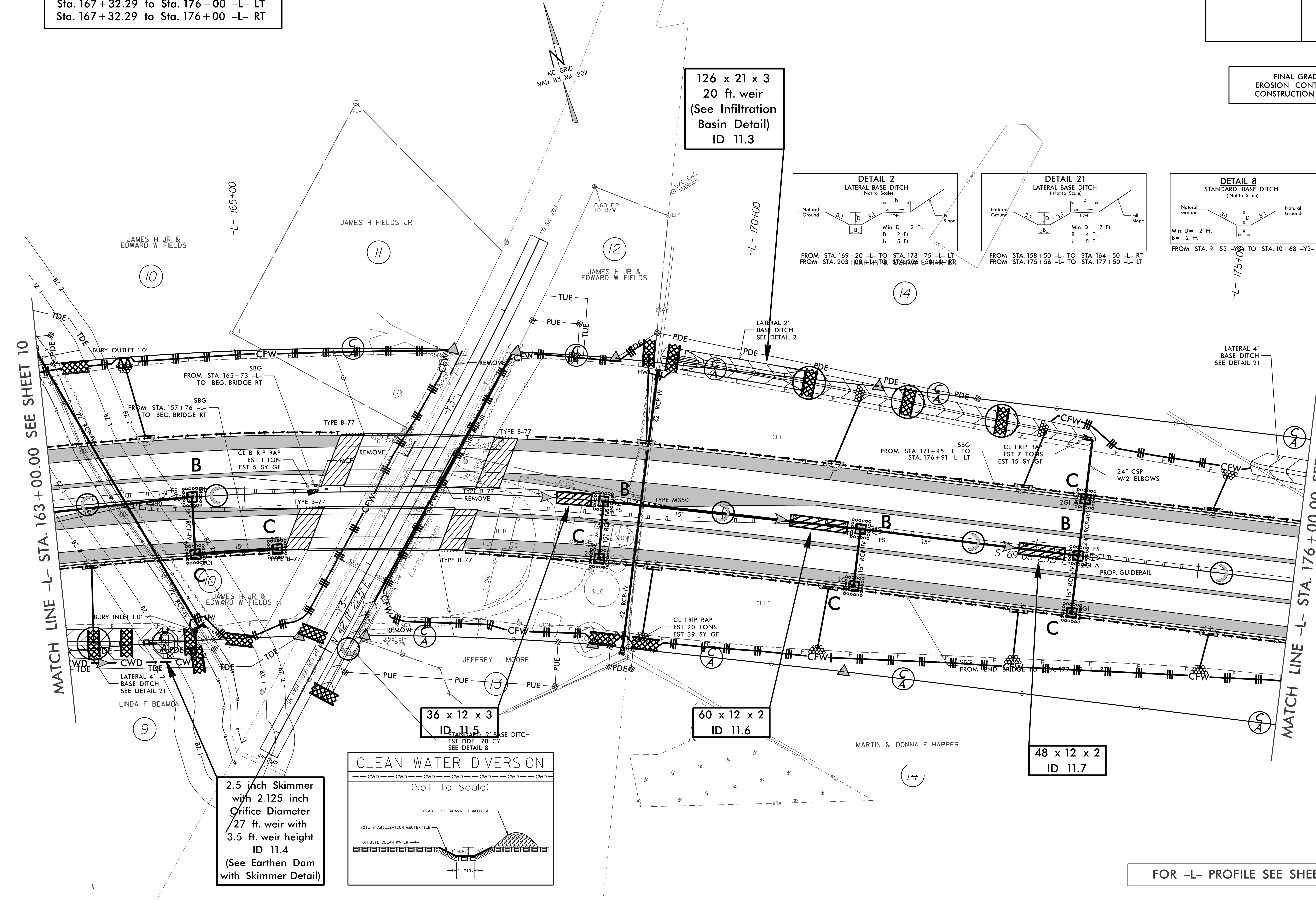
RW SHEET NO.

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 11

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 163+00 to Sta. 165+95.25 -L- LT
Sta. 163+00 to Sta. 165+95.25 -L- RT
Sta. 167+32.29 to Sta. 176+00 -L- LT
Sta. 167+32.29 to Sta. 176+00 -L- RT



NC GRID NAD 83 NA 2011
126 x 21 x 3
20 ft. weir
(See Infiltration Basin Detail)
ID 11.3
DETAIL 2
LATERAL BASE DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D= 2 Ft.
B= 2 Ft.
b= 5 Ft.
FROM STA. 169+20 -L- TO STA. 173+75 -L- LT
DETAIL 21
LATERAL BASE DITCH
(Not to Scale)
Min. D= 2 Ft.
B= 4 Ft.
b= 5 Ft.
FROM STA. 158+50 -L- TO STA. 164+50 -L- RT
FROM STA. 175+56 -L- TO STA. 177+50 -L- LT
DETAIL 8
STANDARD BASE DITCH
(Not to Scale)
Min. D= 2 Ft.
B= 2 Ft.
FROM STA. 9+53 -Y3- TO STA. 10+68 -Y3- RT
-L- 165+00
-L- 170+00
-L- 175+00
JAMES H JR & EDWARD W FIELDS
JAMES H FIELDS JR
MATCH LINE -L- STA. 163+00.00 SEE SHEET 10
MATCH LINE -L- STA. 176+00.00 SEE SHEET 12
LATERAL 2' BASE DITCH SEE DETAIL 2
LATERAL 4' BASE DITCH SEE DETAIL 21
FROM STA. 165+73 -L- TO BEG. BRIDGE RT
FROM STA. 157+76 -L- TO BEG. BRIDGE RT
CL B RIP RAP EST 1 TON EST 5 SY GF
FROM STA. 171+45 -L- TO STA. 176+91 -L- LT
CL I RIP RAP EST 7 TONS EST 15 SY GF
24" CSP W/2 ELBOWS
PROP. GUIDERAIL
CL I RIP RAP EST 20 TONS EST 39 SY GF
JEFFREY L MOORE
LINDA F BEAMON
MARTIN & DONNA F HARPER
BURY OUTLET 1.0'
BURY INLET 1.0'
36 x 12 x 3
ID 11.5
STANDARD 2' BASE DITCH
EST. DDE=70 CY
SEE DETAIL 8
60 x 12 x 2
ID 11.6
48 x 12 x 2
ID 11.7
2.5 inch Skimmer with 2.125 inch Orifice Diameter 27 ft. weir with 3.5 ft. weir height ID 11.4 (See Earthen Dam with Skimmer Detail)
CLEAN WATER DIVERSION
(Not to Scale)
STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER

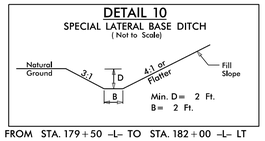
FOR -L- PROFILE SEE SHEET 35

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-39/CONSTJ2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

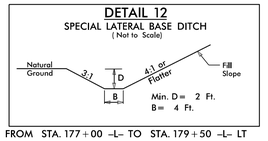
Place Matting for Erosion Control on Slope as Work Allows.
Sta. 176+00 to Sta. 177+00 –L– LT
Sta. 176+00 to Sta. 182+00 –L– RT
Sta. 185+00 To Sta. 189+00 –L– RT

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



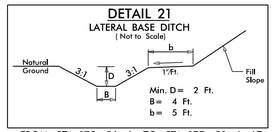
FROM STA. 179+50 –L– TO STA. 182+00 –L– LT

DETAIL 12
SPECIAL LATERAL BASE DITCH
(Not to Scale)



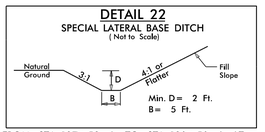
FROM STA. 177+00 –L– TO STA. 179+50 –L– LT

DETAIL 21
LATERAL BASE DITCH
(Not to Scale)



FROM STA. 175+56 –L– TO STA. 177+50 –L– LT

DETAIL 22
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 187+58 –L– TO STA. 190+50 –L– LT

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

148 x 37 x 2
20 ft. weir
(See Infiltration Basin Detail)
ID 12.4

112 x 28 x 3
11 ft. weir
(See Infiltration Basin Detail)
ID 12.5

MATCH LINE –L– STA. 176+00.00 SEE SHEET 11

MATCH LINE –L– STA. 189+00.00 SEE SHEET 13

–L– 180+00

–L– 185+00

CYNTHIA M WORTHINGTON

CLAIRE W HERRING

NELLIE D ELMORE

SBG
FROM STA. 171+45 –L– TO STA. 176+89 –L– LT

LATERAL 4'
BASE DITCH
SEE DETAIL 21

CL B RIP RAP
EST 2 TONS
EST 7 SY GF

SPEC. LATERAL 4'
BASE DITCH
SEE DETAIL 12

CL B RIP RAP
EST 2 TONS
EST 7 SY GF

SPEC. LATERAL 2'
BASE DITCH
SEE DETAIL 10

SPEC. LATERAL 5'
BASE DITCH
SEE DETAIL 22

15" CSP
W/2 ELBOWS

GRAU 350 TL-3

PROP. GUIDERAIL

–L–
S 69° 06' 25.9" E

15" RCP III

36" RCP III

CL B RIP RAP
EST 8 TONS
EST 21 SY GF

CL B RIP RAP
EST 1 TONS
EST 5 SY GF

SBG
FROM END BRIDGE TO STA. 177+18 –L– RT

REMOVE

8" STL. TRANSMISSION (UG)

50' GAS EASEMENT
WIDTH SHOWN PER DB 1736 PG 798 (ACTUAL GRANT)

MARTIN &

60 x 12 x 3
ID 12.6

72 x 12 x 3
ID 12.7

72 x 12 x 3
ID 12.8

36 x 108 x 2
14 ft. weir
(See Infiltration Basin Detail)
ID 12.2

33 x 132 x 3
16 ft. weir
(See Infiltration Basin Detail)
ID 12.3

FOR –L– PROFILE SEE SHEET 35 & 36

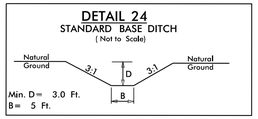
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-40/CONSTJ3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

REVISIONS

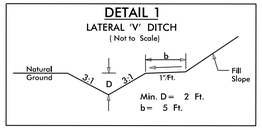
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 189+00 to Sta. 200+38.82 –L– RT
Sta. 190+50 to Sta. 200+38.82 –L– LT
Sta. 201+41.41 to Sta. 202+00 –L– LT
Sta. 201+41.41 to Sta. 202+00 –L– RT

DETAIL 24
STANDARD BASE DITCH
(Not to Scale)



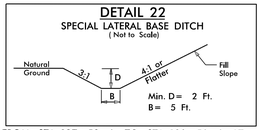
FROM STA. 193+97 –L– TO STA. 194+06 –L– RT

DETAIL 1
LATERAL 'V' DITCH
(Not to Scale)



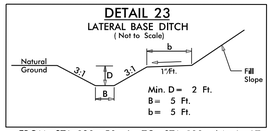
FROM STA. 189+50 –L– TO STA. 193+66 –L– RT

DETAIL 22
SPECIAL LATERAL BASE DITCH
(Not to Scale)



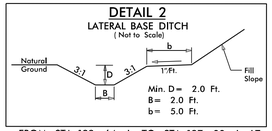
FROM STA. 187+58 –L– TO STA. 190+50 –L– LT

DETAIL 23
LATERAL BASE DITCH
(Not to Scale)

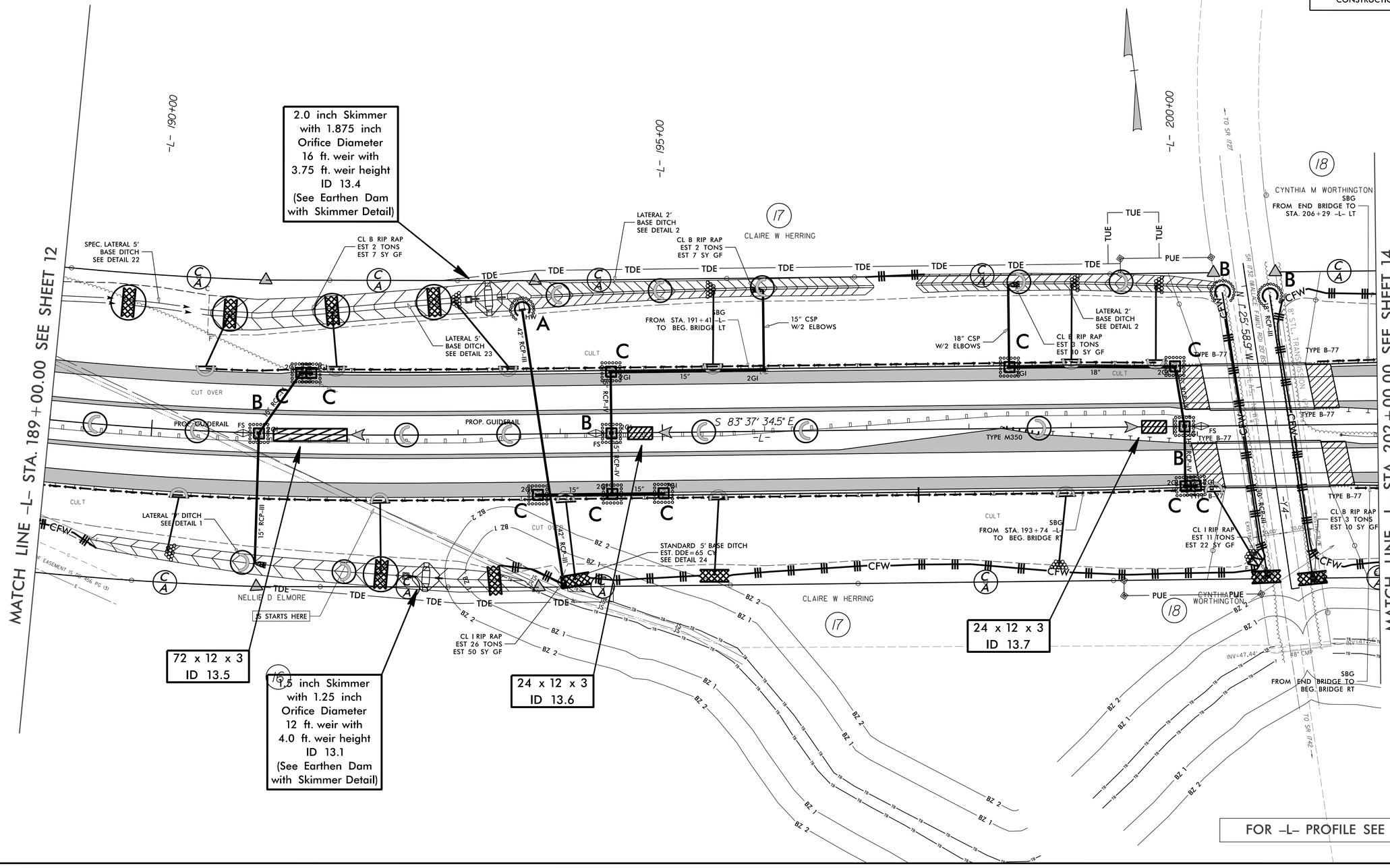


FROM STA. 190+50 –L– TO STA. 193+64 –L– LT

DETAIL 2
LATERAL BASE DITCH
(Not to Scale)



FROM STA. 193+64 –L– TO STA. 197+00 –L– LT
197+50 –L– TO STA. 200+45 –L– LT



FOR –L– PROFILE SEE SHEET 36

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-41/CONST14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 202+00 to Sta. 208+00 –L– LT
Sta. 202+00 to Sta. 214+44.75 –L– RT
Sta. 210+50 to Sta. 214+44.75 –L– LT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 14

MATCH LINE –L– STA. 202+00.00 SEE SHEET 13

MATCH LINE –L– STA. 215+00.00 SEE SHEET 15

–L– 205+00

–L– 210+00

–L– 215+00

192 x 32 x 3
23 ft. weir
(See Infiltration Basin Detail)
ID 14.4

116 x 29 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
19 ft. weir
ID 14.2

CYNTHIA M WORTHINGTON 18

CL B RIP RAP EST 2 TONS EST 7 SY GF

LATERAL 2' BASE DITCH SEE DETAIL 2

SPEC. LATERAL 2' BASE DITCH SEE DETAIL 10

LATERAL 3' BASE DITCH SEE DETAIL 25

15" CSP W/2 ELBOWS

SBG FROM END BRIDGE TO STA. 206+29 –L– LT

GRAU 350 TL-3

FROM STA. 211+12 –L– TO BEG. BRIDGE LT

CAT-1

24" CSP W/2 ELBOWS

CL I RIP RAP EST 7 TONS EST 15 SY GF

TYPE M350

PROP. GUIDERAIL

S 83° 37' 45" E

–L–

TYPE B-77

CUT OVER

STANDARD 2' BASE DITCH EST DDE 700 CY SEE DETAIL 8

SBG FROM END BRIDGE TO BEG. BRIDGE RT

24 x 12 x 3
ID 14.6

36 x 12 x 3
ID 14.7

81 x 27 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 14.5

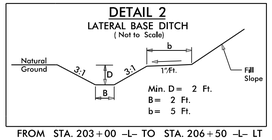
36 x 12 x 3
ID 14.8

24 x 12 x 2
ID 14.9

24 x 12 x 3
ID 14.10

144 x 24 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
ID 14.3

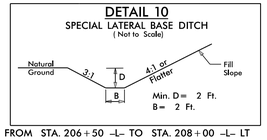
DETAIL 2
LATERAL BASE DITCH
(Not to Scale)



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

FROM STA. 203+00 –L– TO STA. 206+50 –L– LT

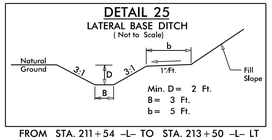
DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D= 2 Ft.
B= 2 Ft.

FROM STA. 206+50 –L– TO STA. 208+00 –L– LT

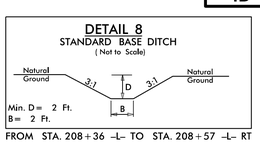
DETAIL 25
LATERAL BASE DITCH
(Not to Scale)



Min. D= 2 Ft.
B= 3 Ft.
b= 5 Ft.

FROM STA. 211+54 –L– TO STA. 213+50 –L– LT

DETAIL 8
STANDARD BASE DITCH
(Not to Scale)



Min. D= 2 Ft.
B= 2 Ft.

FROM STA. 208+36 –L– TO STA. 208+57 –L– RT

FOR –L– PROFILE SEE SHEET 36 & 37

REVISIONS

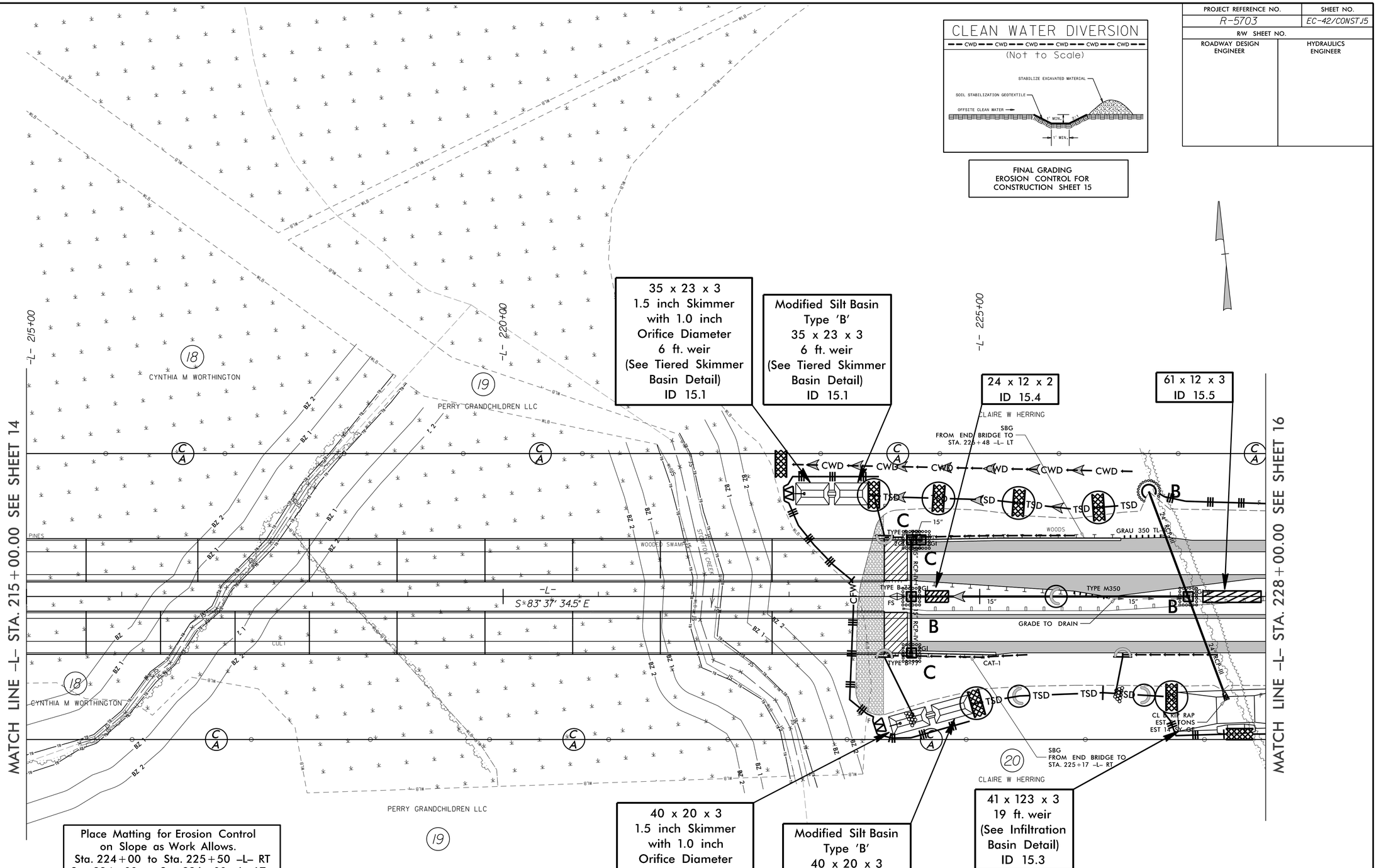
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-42/CONST15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEAN WATER DIVERSION

CWD — CWD — CWD — CWD — CWD — CWD

(Not to Scale)

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 15



Place Matting for Erosion Control on Slope as Work Allows.
Sta. 224+00 to Sta. 225+50 –L– RT
Sta. 224+00 to Sta. 226+00 –L– LT
Sta. 226+50 to Sta. 227+50 –L– RT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

FOR –L– PROFILE SEE SHEET 37

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-43/CONST16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

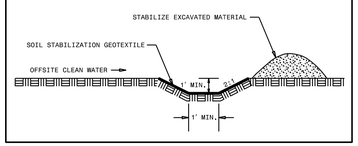
REVISIONS

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 230+50 to Sta. 241+00 –L– LT
Sta. 230+50 to Sta. 241+00 –L– RT

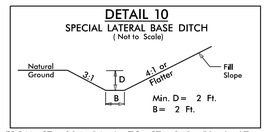
CLEAN WATER DIVERSION

CWD CWD CWD CWD CWD CWD CWD

(Not to Scale)

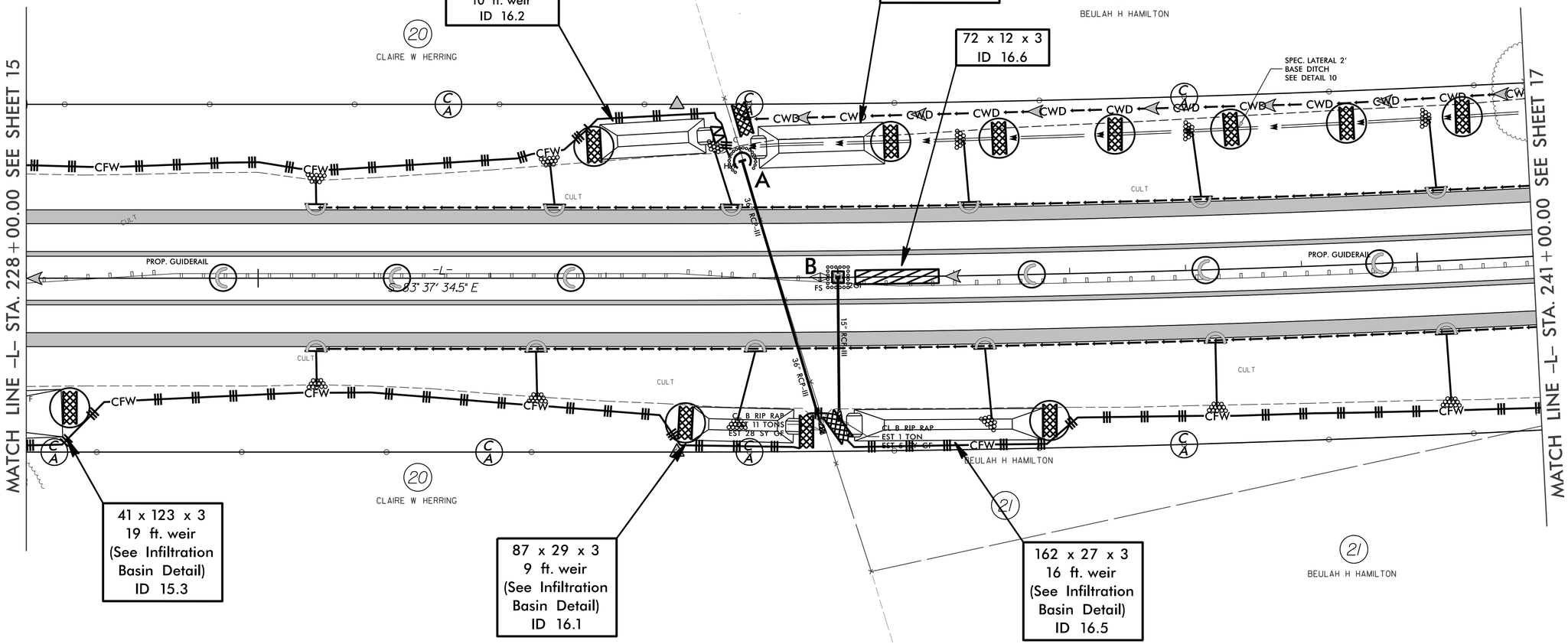


DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 234+14 –L– TO STA. 242+50 –L– LT

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 16



FOR –L– PROFILE SEE SHEET 37 & 38

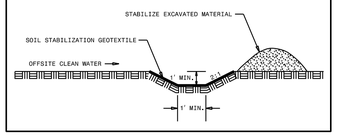
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-44/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

CLEAN WATER DIVERSION

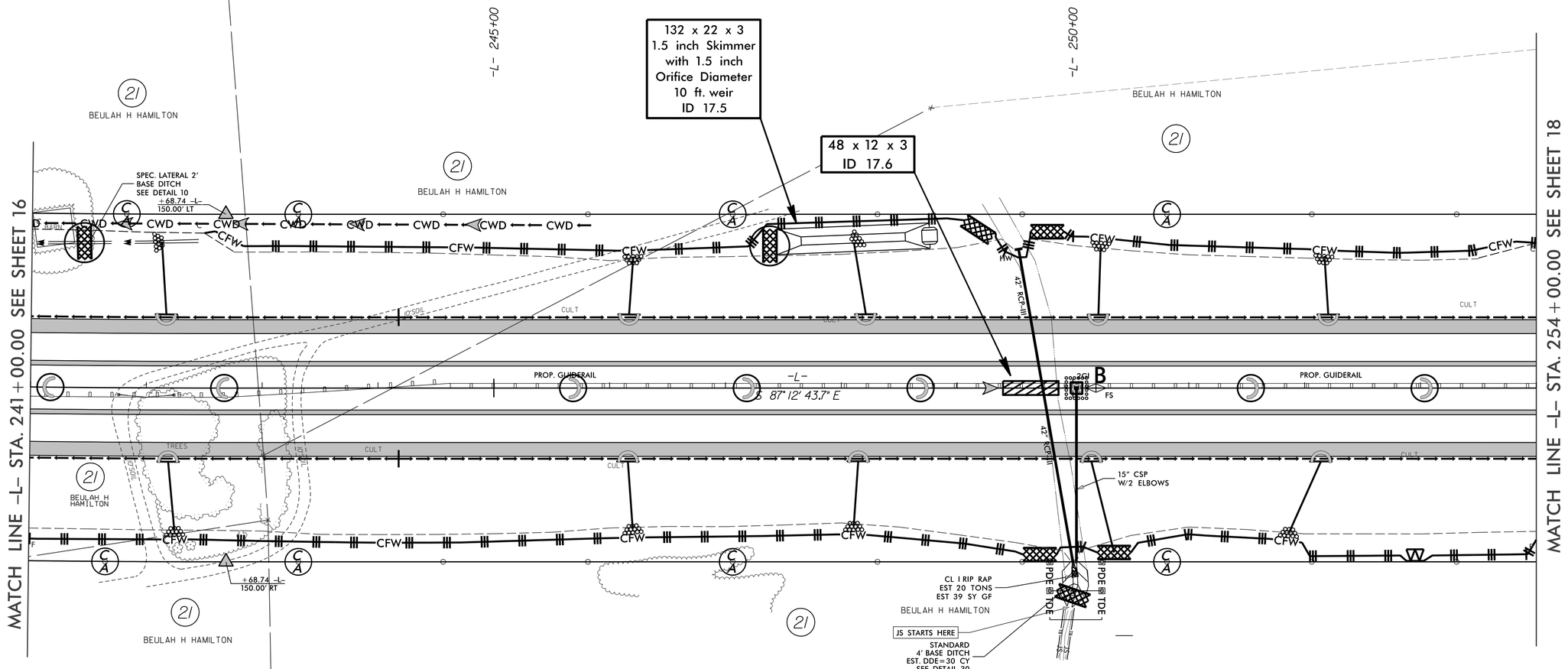
CWD — CWD — CWD — CWD — CWD — CWD

(Not to Scale)

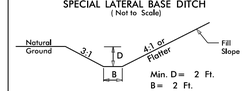


Place Matting for Erosion Control on Slope as Work Allows.
Sta. 241+00 to Sta. 254+00 –L– LT
Sta. 241+00 to Sta. 254+00 –L– RT

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

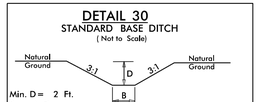


DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 234+14 –L– TO STA. 242+50 –L– LT

DETAIL 30
STANDARD BASE DITCH
(Not to Scale)



FROM STA. 249+89 –L– TO STA. 250+13 –L– RT

FOR –L– PROFILE SEE SHEET 38

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-45/CONSTJ8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 254+00 to Sta. 261+50 –L– LT
Sta. 254+00 to Sta. 262+50 –L– RT
Sta. 265+50 to Sta. 267+00 –L– RT

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 18

MATCH LINE –L– STA. 254+00.00 SEE SHEET 17

MATCH LINE –L– STA. 267+00.00 SEE SHEET 19

–L– 255+00

–L– 260+00

–L– 265+00

–Y5– 15+00

N 2° 01' 45.9" E

TO SR 1732

TO SR 1735

BEULAH H HAMILTON (21)

EQUITY TR CO CUSTODIAN FBO

CECIL L & PEGGY S ELMORE (25)

ROBERT & GAIL J HILL (27)

KENNETH E & DONALD HOWELL (26)

JIMMY & MARIA TORRES (22)

RICHARD K & LYNETTE R RILEY (23)

JOHNNY QUINN (24)

CECIL L & PEGGY S ELMORE

KENNETH E & DONALD HOWELL (26)

ROBERT & GAIL J HILL (28)

15" RCP

18" CSP

15" HDPE

24" RCP-III

30" RCP-III

15" RCP-III

15" CSP W/2 ELBOWS

RETAIN

REMOVE

PUE

SPEC. LATERAL 'V' DITCH SEE DETAIL 11

SPEC. LATERAL 2' BASE DITCH SEE DETAIL 10

CL B RIP RAP EST 2 TONS EST 7 SY GF

CL B RIP RAP EST 5 TONS EST 14 SY GF

CL B RIP RAP EST 8 TONS EST 21 SY GF

STANDARD BASE (VAR. 2'–4') DITCH EST. DDE=35 CY SEE DETAIL 32

PROP. GUIDERAIL

CFW

TSD

48 x 12 x 3 ID 18.3

54 x 27 x 3 5 ft. weir (See Infiltration Basin Detail) ID 18.2

48 x 12 x 3 ID 18.4

60 x 12 x 3 ID 19.5

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, B, 4:1 or Flatter, Fill Slope

Min. D= 2 Ft.
B= 2 Ft.

FROM STA. 256+59 –L– TO STA. 259+00 –L– LT
FROM STA. 260+50 –L– TO STA. 262+36 –L– LT

DETAIL 11
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 3:1, D, 4:1 or Flatter, Fill Slope

Min. D= 2 Ft.

FROM STA. 254+00 –L– TO STA. 256+08 –L– LT

DETAIL 32
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground, B

Min. D= 2 Ft.
B= VAR. 2–4 Ft.

FROM STA. 10+82 –Y5– TO STA. 11+14 –Y5– LT

FOR –L– PROFILE SEE SHEET 38 & 39

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-46/CONST19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

REVISIONS

MATCH LINE –L– STA. 267+00.00 SEE SHEET 18

MATCH LINE –L– STA. 280+00.00 SEE SHEET 20

76 x 38 x 3
11 ft. weir
(See Infiltration
Basin Detail)
ID 19.4

2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
35 ft. weir with
5.0 ft. weir height
ID 19.3
(See Earthen Dam
with Skimmer Detail)

60 x 12 x 3
ID 19.5

48 x 12 x 3
ID 19.6

1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir with
4.0 ft. weir height
ID 19.2
(See Earthen Dam
with Skimmer Detail)

48 x 12 x 3
ID 19.7

72 x 12 x 3
ID 19.8

72 x 12 x 3
ID 19.9

48 x 12 x 2
ID 19.10

24 x 12 x 2
ID 19.11

KENNETH E & DONALD HOWELL

ROBERT & GAIL J HILL

JEFFREY S WHITLEY
DB 1219 PG 345

-L- 270+00

-L- 275+00

-L- 280+00

LATERAL 3'
BASE DITCH
SEE DETAIL 25

BURY INLET 1.0'

BURY OUTLET 1.0'

GRADE TO DRAIN

PROP. GUIDERAIL

STANDARD 2'
BASE DITCH
SEE DETAIL 30

CL I RIP RAP
EST 48 TONS
EST 89 SY GF

CL B RIP RAP
EST 2 TONS
EST 7 SY GF

CL I RIP RAP
EST 3 TONS
EST 7 SY GF

15" CSP
W/2 ELBOWS

SBG
FROM STA. 275+65 –L–
TO BEG. BRIDGE LT

SBG
FROM STA. 277+06 –L–
TO BEG. BRIDGE RT

TYPE M350

GRAU 350 TL-3

DETAIL 30
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground, B

Min. D= 2 Ft.
B= 4 Ft.

FROM STA. 268+47 –L– TO STA. 269+50 –L– RT

DETAIL 25
LATERAL BASE DITCH
(Not to Scale)

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

Min. D= 2 Ft.
B= 3 Ft.
Min. b= 5 Ft.

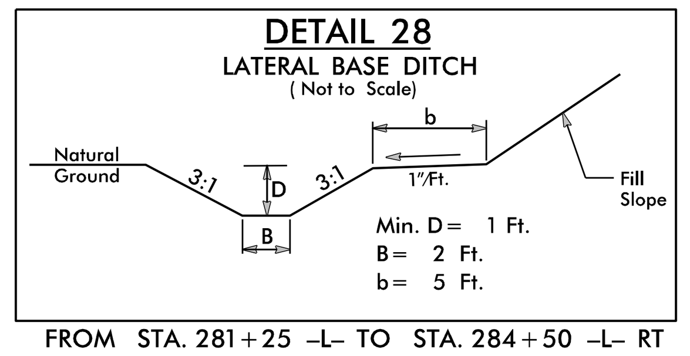
FROM STA. 268+54 –L– TO STA. 270+00 –L– LT
FROM STA. 272+40 –L– TO STA. 279+00 –L– LT

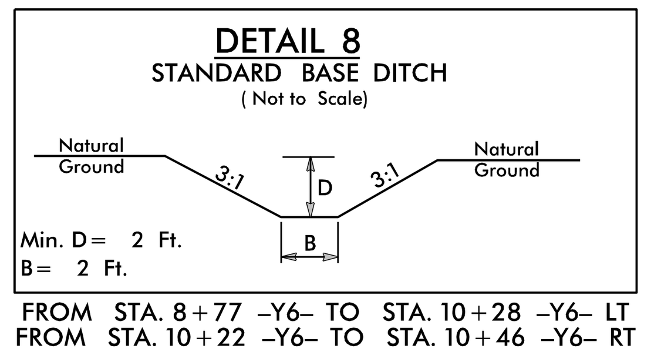
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 267+00 to Sta. 280+00 –L– RT
Sta. 273+50 to Sta. 280+00 –L– LT

FOR –L– PROFILE SEE SHEET 39

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-47/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

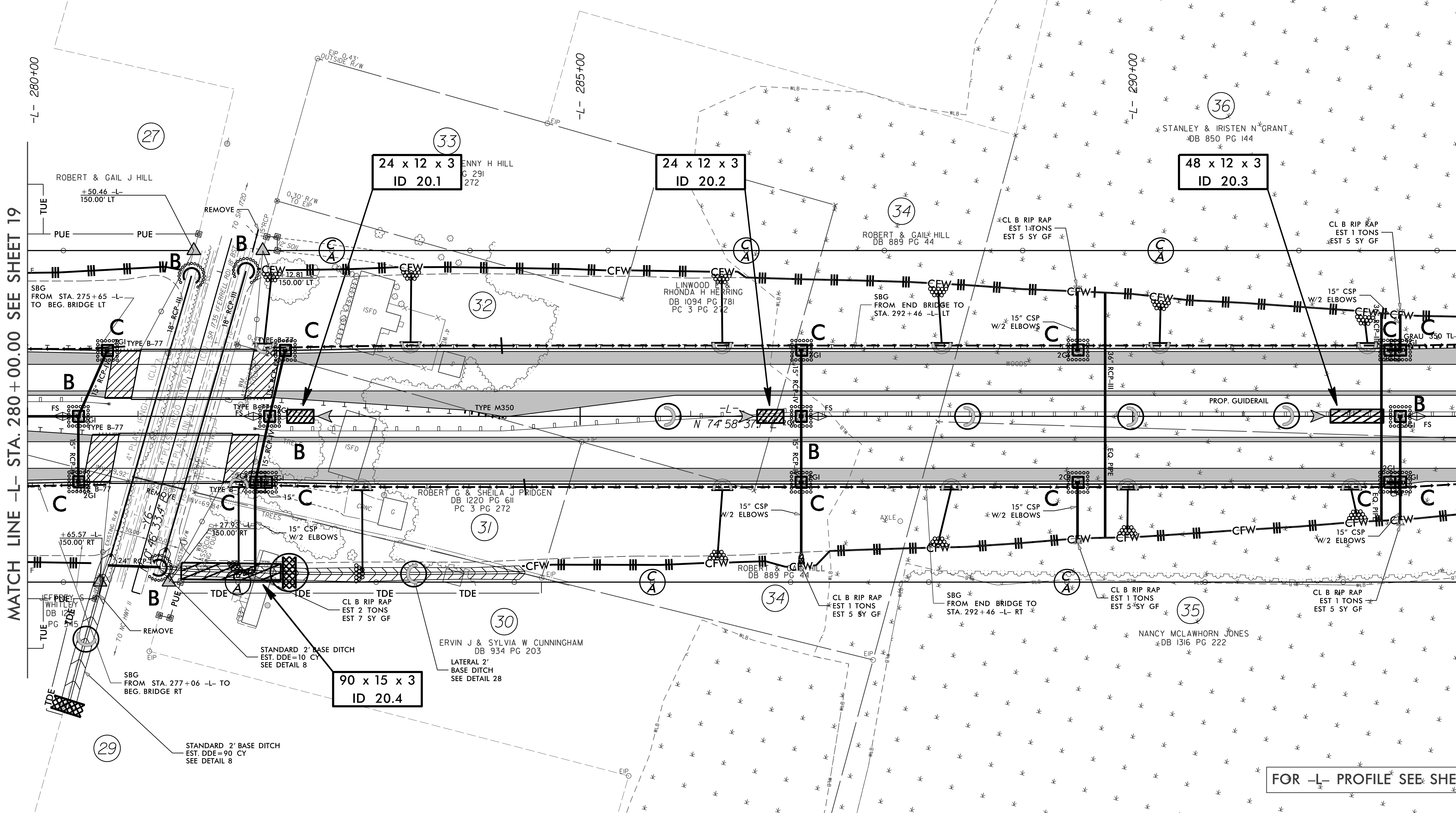
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 20





Place Matting for Erosion Control on Slope as Work Allows.
Sta. 280+00 to Sta. 280+88.4 -L- RT
Sta. 280+00 to Sta. 280+88.4 -L- LT
Sta. 281+90.98 to Sta. 293+00 -L- RT
Sta. 281+90.98 to Sta. 293+00 -L- LT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.



MATCH LINE -L- STA. 280+00.00 SEE SHEET 19
MATCH LINE -L- STA. 293+00.00 SEE SHEET 21
-L- 280+00
-L- 285+00
-L- 290+00
24 x 12 x 3
ID 20.1
24 x 12 x 3
ID 20.2
48 x 12 x 3
ID 20.3
90 x 15 x 3
ID 20.4
ROBERT & GAIL J HILL
STANLEY & IRISTEN N GRANT
DB 850 PG 144
ROBERT & GAIL HILL
DB 889 PG 44
LINWOOD E & RHONDA H HERRING
DB 1094 PG 781
PC 3 PG 272
ROBERT G & SHEILA J PRIDGEN
DB 1220 PG 611
PC 3 PG 272
ERVIN J & SYLVIA W CUNNINGHAM
DB 934 PG 203
NANCY MCLAWHORN JONES
DB 1316 PG 222
SBG
FROM STA. 275+65 -L-
TO BEG. BRIDGE LT
SBG
FROM END BRIDGE TO
STA. 292+46 -L- LT
SBG
FROM END BRIDGE TO
STA. 292+46 -L- RT
SBG
FROM STA. 277+06 -L- TO
BEG. BRIDGE RT
CL B RIP RAP
EST 1 TONS
EST 5 SY GF
CL B RIP RAP
EST 2 TONS
EST 7 SY GF
15" CSP
W/2 ELBOWS
STANDARD 2' BASE DITCH
EST. DDE=10 CY
SEE DETAIL 8
STANDARD 2' BASE DITCH
EST. DDE=90 CY
SEE DETAIL 8
LATERAL 2' BASE DITCH
SEE DETAIL 28
TYPE M350
PROP. GUIDERAIL
-L-
N 74°58'37"
REMOVE
PUE
TUE
TDE
CFW
FS

FOR -L- PROFILE SEE SHEET 39 & 40

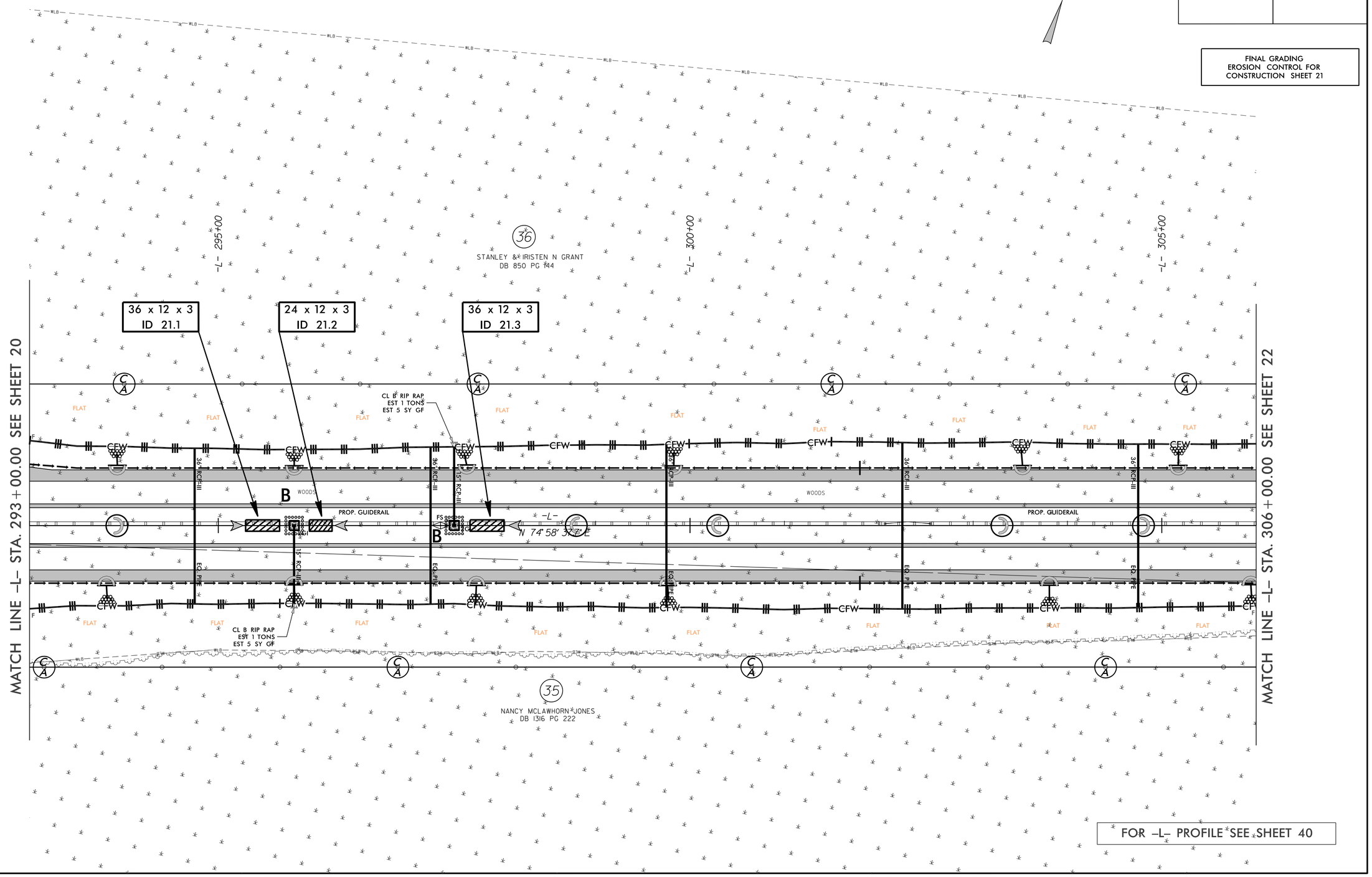
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-48/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 293+00 to Sta. 306+00 –L– RT
Sta. 293+00 to Sta. 306+00 –L– LT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 21



FOR –L– PROFILE SEE SHEET 40

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-49/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 306+00 to Sta. 312+00 –L– RT
Sta. 306+00 to Sta. 319+00 –L– LT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 22

MATCH LINE –L– STA. 306+00.00 SEE SHEET 21

MATCH LINE –L– STA. 319+00.00 SEE SHEET 23

STANLEY & IRISTEN N GRANT
DB 850 PG 144
36

CHERYL O HILL HEIRS &
BRENDA O WOODARD
DB 850 PG 140
37

NANCY MCLAWHORN JONES
DB 1316 PG 222
35

NANCY MCLAWHORN JONES
DB 1316 PG 222
5

–L– STA. 310+00

–L– STA. 315+00

N 72° 58' 37.7" E

CL B RIP RAP
EST 1 TONS
EST 5 SY GF

CL B RIP RAP
EST 2 TONS
EST 7 SY GF

PROP. GUIDERAIL

36" RCP

15" RCP

EQ. PIPE

CFW

CULT

PUE

60 x 12 x 3
ID 22.2

72 x 12 x 3
ID 22.3

60 x 12 x 2
ID 22.4

72 x 12 x 3
ID 22.5

66 x 33 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 22.1

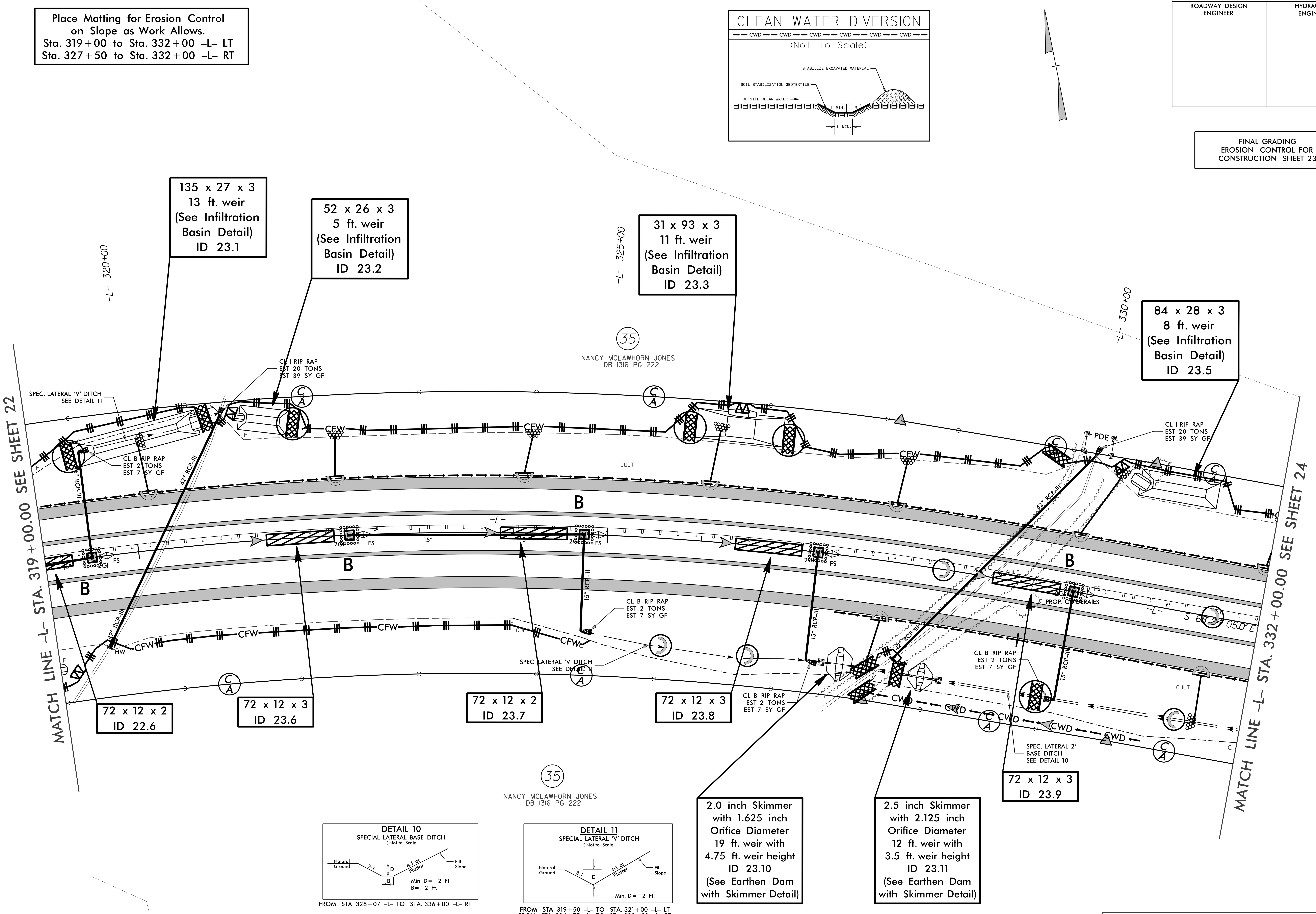
72 x 12 x 2
ID 22.6

FOR –L– PROFILE SEE SHEET 40 & 41

PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-50/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 23

REVISIONS



Place Matting for Erosion Control on Slope as Work Allows.
Sta. 319+00 to Sta. 332+00 –L– LT
Sta. 327+50 to Sta. 332+00 –L– RT
CLEAN WATER DIVERSION
(Not to Scale)
STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER
1' MIN.
135 x 27 x 3
13 ft. weir
(See Infiltration Basin Detail)
ID 23.1
52 x 26 x 3
5 ft. weir
(See Infiltration Basin Detail)
ID 23.2
31 x 93 x 3
11 ft. weir
(See Infiltration Basin Detail)
ID 23.3
84 x 28 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 23.5
-L- 320+00
-L- 325+00
-L- 330+00
35
NANCY MCLAWHORN JONES
DB 1316 PG 222
SPEC. LATERAL 'V' DITCH
SEE DETAIL 11
CL I RIP RAP
EST 20 TONS
EST 39 SY GF
CL B RIP RAP
EST 2 TONS
EST 7 SY GF
PDE
CULT
B
-L-
15"
FS
GI
HW
CFW
CWD
42" RCP-III
15" RCP-III
PROP. GUARDRAILS
S 66°24'05.0" E
SPEC. LATERAL 'V' DITCH
SEE DETAIL 11
SPEC. LATERAL 2' BASE DITCH
SEE DETAIL 10
MATCH LINE -L- STA. 319+00.00 SEE SHEET 22
MATCH LINE -L- STA. 332+00.00 SEE SHEET 24
72 x 12 x 2
ID 22.6
72 x 12 x 3
ID 23.6
72 x 12 x 2
ID 23.7
72 x 12 x 3
ID 23.8
72 x 12 x 3
ID 23.9
2.0 inch Skimmer with 1.625 inch Orifice Diameter
19 ft. weir with 4.75 ft. weir height
ID 23.10
(See Earthen Dam with Skimmer Detail)
2.5 inch Skimmer with 2.125 inch Orifice Diameter
12 ft. weir with 3.5 ft. weir height
ID 23.11
(See Earthen Dam with Skimmer Detail)
DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground
3:1
4:1 or Flatter
Fill Slope
Min. D= 2 Ft.
B= 2 Ft.
FROM STA. 328+07 -L- TO STA. 336+00 -L- RT
DETAIL 11
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
3:1
4:1 or Flatter
Fill Slope
Min. D= 2 Ft.
FROM STA. 319+50 -L- TO STA. 321+00 -L- LT
FROM STA. 324+75 -L- TO STA. 328+02 -L- RT

FOR -L- PROFILE SEE SHEET 41

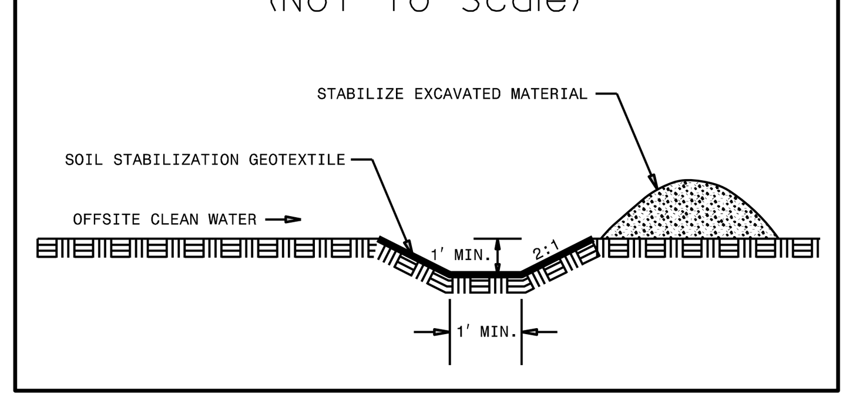
PROJECT REFERENCE NO.	SHEET NO.
R-5703	EC-51/CONST.24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

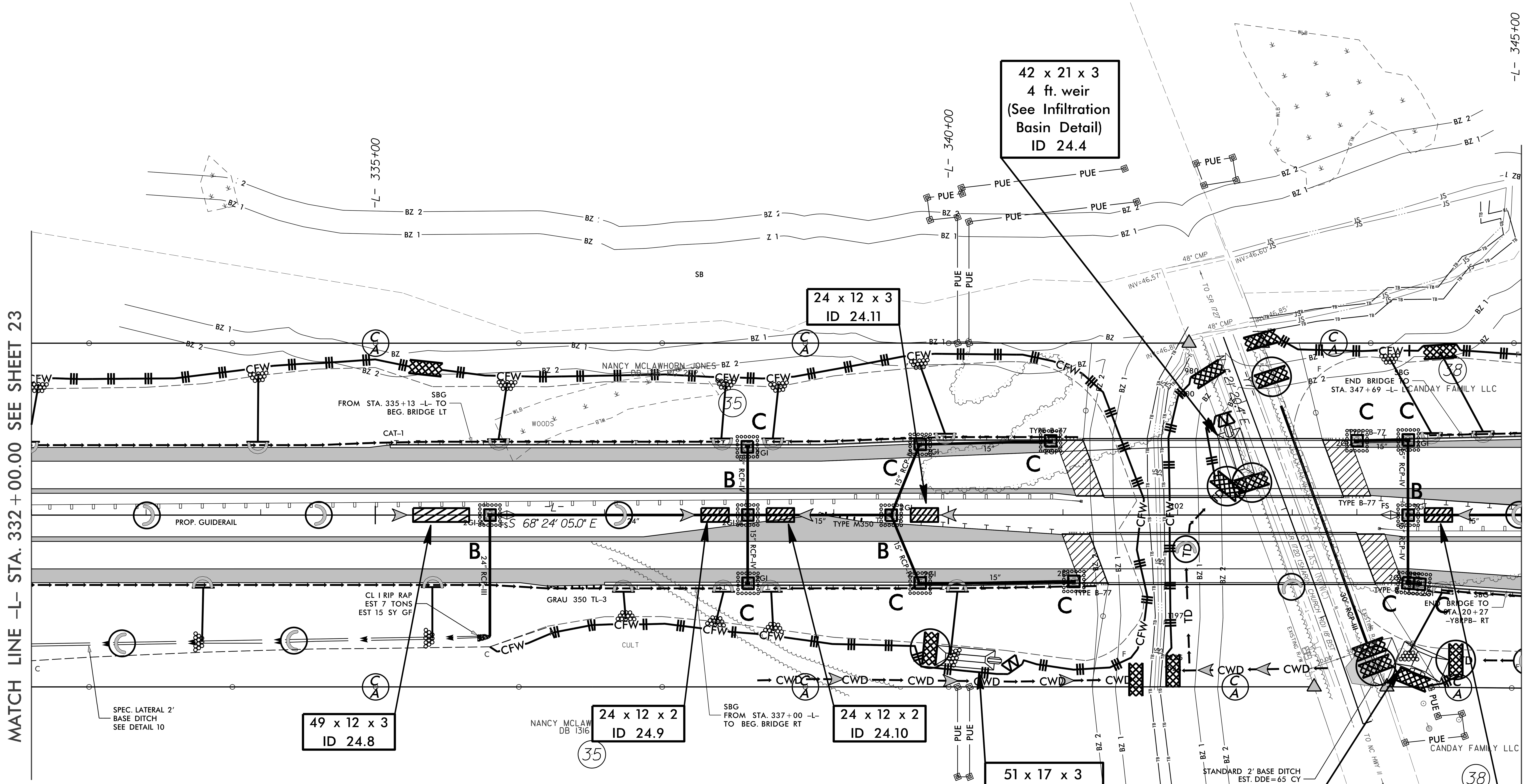
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 24

CLEAN WATER DIVERSION

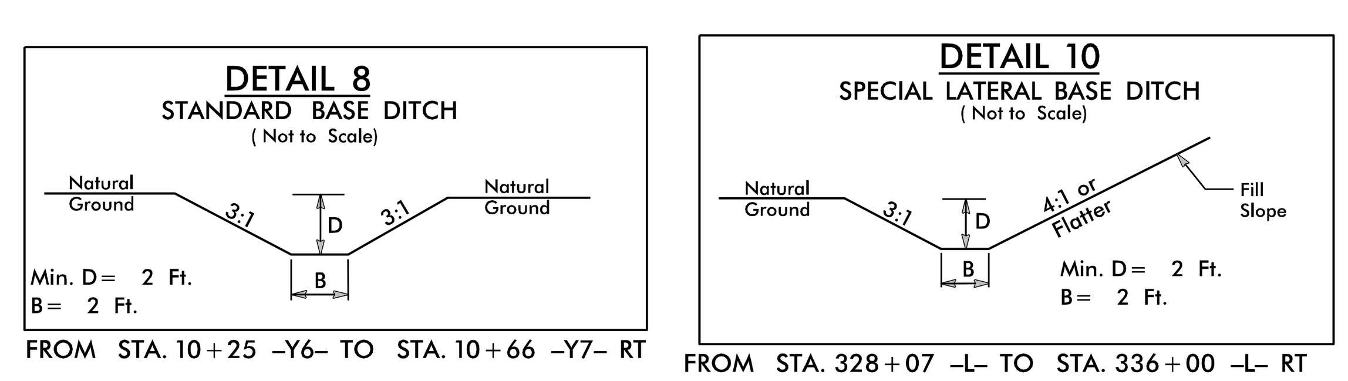
(Not to Scale)



Place Matting for Erosion Control on Slope as Work Allows.
Sta. 332+00 to Sta. 341+29.34 -L- LT
Sta. 332+00 to Sta. 341+29.34 -L- RT
Sta. 343+50.51 to Sta. 345+00 -L- RT
Sta. 343+50.51 to Sta. 345+00 -L- LT



MATCH LINE -L- STA. 332+00.00 SEE SHEET 23
MATCH LINE -L- STA. 345+00.00 SEE SHEET 25
-L- 335+00
-L- 340+00
-L- 345+00
42 x 21 x 3
4 ft. weir
(See Infiltration Basin Detail)
ID 24.4
24 x 12 x 3
ID 24.11
NANCY MCLAWHORN JONES
SBG FROM STA. 335+13 -L- TO BEG. BRIDGE LT
CAT-1
WOODS
PROP. GUIDERAIL
S 68° 24' 05.0" E
TYPE M350
TYPE B-77
CL I RIP RAP EST 7 TONS EST 15 SY GF
GRAU 350 TL-3
CULT
END BRIDGE TO STA. 347+69 -L- CANDAY FAMILY LLC
END BRIDGE TO STA. 20+27 -Y8RPB- RT
SPEC. LATERAL 2' BASE DITCH SEE DETAIL 10
49 x 12 x 3
ID 24.8
NANCY MCLAW DB 1316
24 x 12 x 2
ID 24.9
SBG FROM STA. 337+00 -L- TO BEG. BRIDGE RT
24 x 12 x 2
ID 24.10
51 x 17 x 3
4 ft. weir
(See Infiltration Basin Detail)
ID 24.7
STANDARD 2' BASE DITCH EST. DDE=65 CY SEE DETAIL 8
21 x 42 x 3
4 ft. weir
(See Infiltration Basin Detail)
ID 24.6
24 x 12 x 2
ID 24.12
CANDAY FAMILY LLC
TO NC HWY 11
TO SR 1727



FOR -L- PROFILE SEE SHEET 41 & 42