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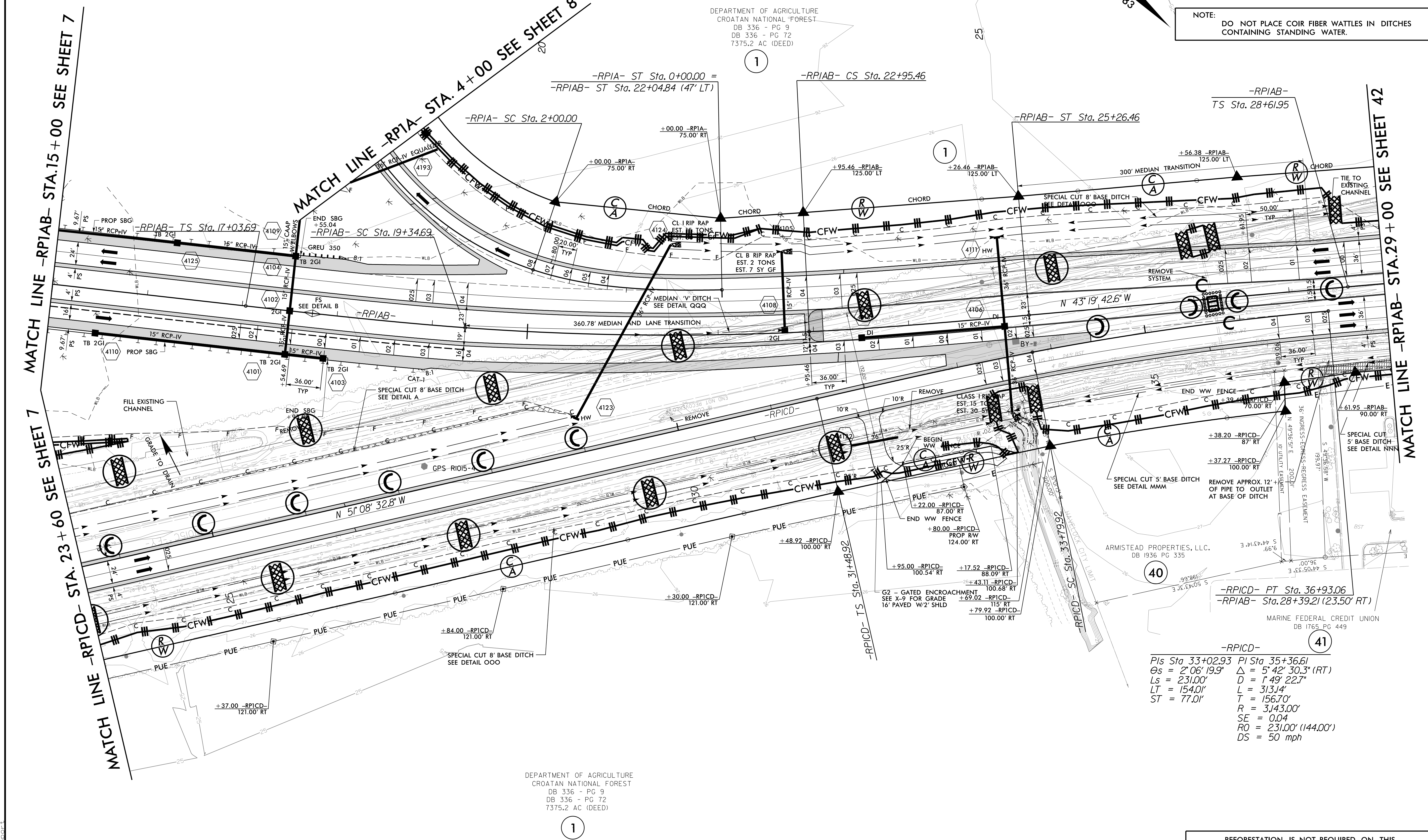
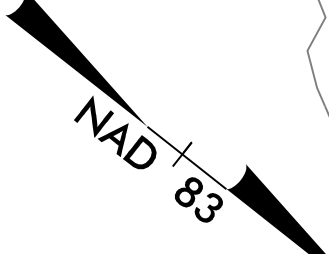
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**CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 41**

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

NOTE:
 DO NOT PLACE COIR FIBER WATTLES IN DITCHES
 CONTAINING STANDING WATER.

-RPIA-		-RPIAB-	
PIs Sta 1+27.46	PI Sta 6+08.39	PIs Sta 18+57.70	PI Sta 21+15.30
Es = 1°56'40.7"	Δ = 102°27'39.0" (RT)	Es = 2°14'27.6"	Δ = 7°00'00.0" (LT)
Os = 17°29'42.6"	D = 17°28'05.6"	Os = 2°14'27.6"	D = 1°56'24.9"
Ls = 200.00'	L = 586.56'	Ls = 231.00'	L = 360.78'
LT = 127.46'	T = 408.39'	LT = 154.01'	T = 180.61'
ST = 74.24'	R = 328.00'	ST = 77.01'	R = 2,953.00'
	SE = 0.08		SE = 0.035
	RO = 200.00'		RO = 144.00'
	DS = 35 mph		DS = 50 mph



DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 DB 336 - PG 9
 DB 336 - PG 72
 7375.2 AC (DEED)

-RPIAB-		-RPIAB-	
PIs Sta 23+72.47	PI Sta 29+95.29	PIs Sta 33+02.93	PI Sta 35+36.61
Es = 2°14'27.6"	Es = 2°17'30.6"	Es = 2°06'19.9"	Es = 5°42'30.3" (RT)
Ls = 231.00'	Ls = 200.00'	Ls = 231.00'	Ls = 231.00'
LT = 154.01'	LT = 133.34'	LT = 154.01'	LT = 154.01'
ST = 77.01'	ST = 66.68'	ST = 77.01'	ST = 77.01'
			T = 156.70'
			R = 3,143.00'
			SE = 0.04
			RO = 231.00' (144.00')
			DS = 50 mph

REFORESTATION IS NOT REQUIRED ON THIS
 PROJECT UNLESS AREAS ARE DISTURBED
 OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99
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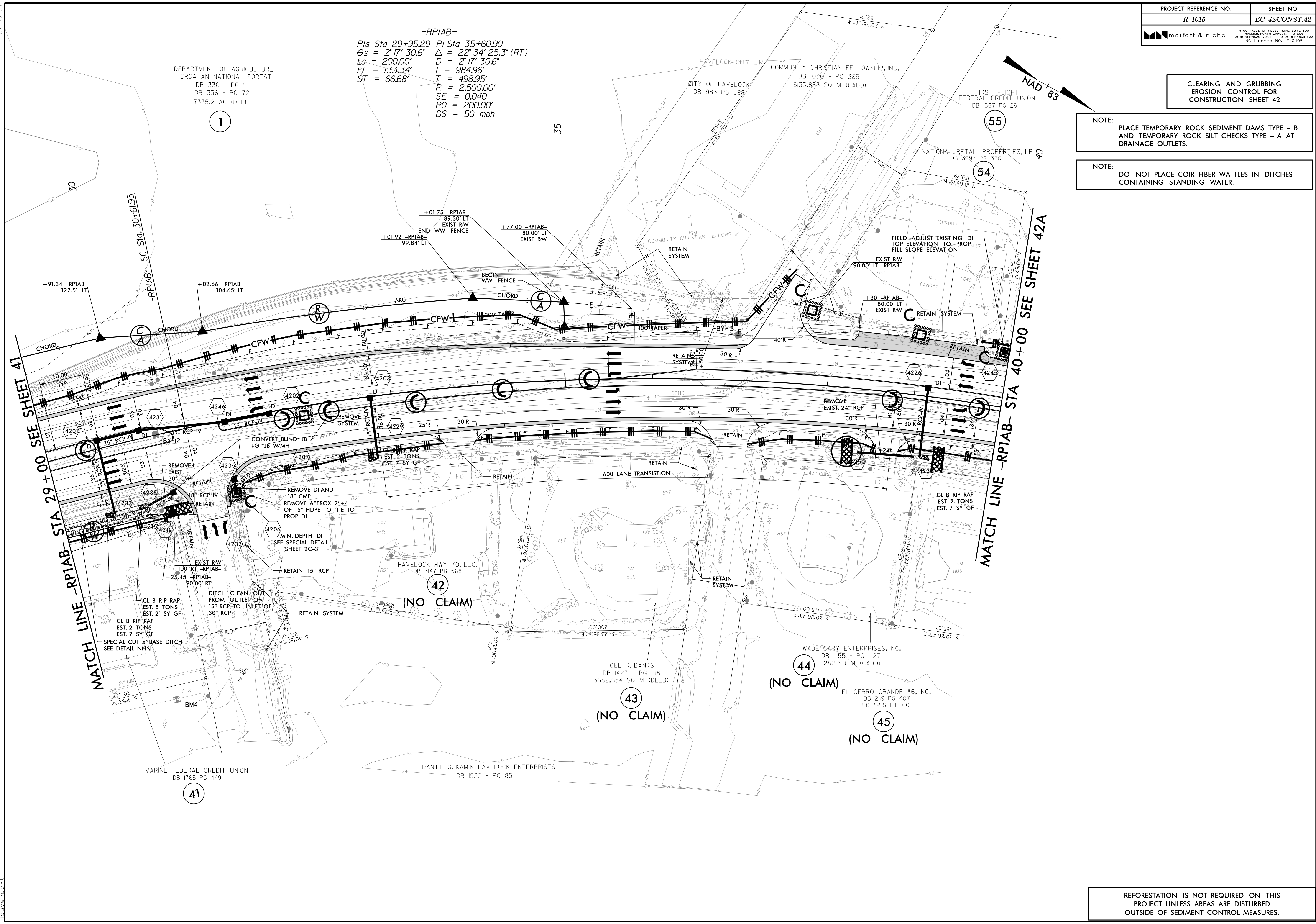
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 42

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

NOTE:
DO NOT PLACE COIR FIBER WATTLES IN DITCHES
CONTAINING STANDING WATER.

-RPIAB-
Pls Sta 29+95.29 PI Sta 35+60.90
 $\theta_s = 2^\circ 17' 30.6''$ $\Delta = 22^\circ 34' 25.3''$ (RT)
 $L_s = 200.00'$ $D = 2^\circ 17' 30.6''$
 $LT = 133.34'$ $L = 984.96'$
 $ST = 66.68'$ $T = 498.95'$
 $R = 2,500.00'$
 $SE = 0.040$
 $RO = 200.00'$
 $DS = 50$ mph

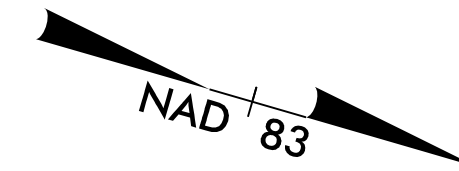
DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG 72
7375.2 AC (DEED)



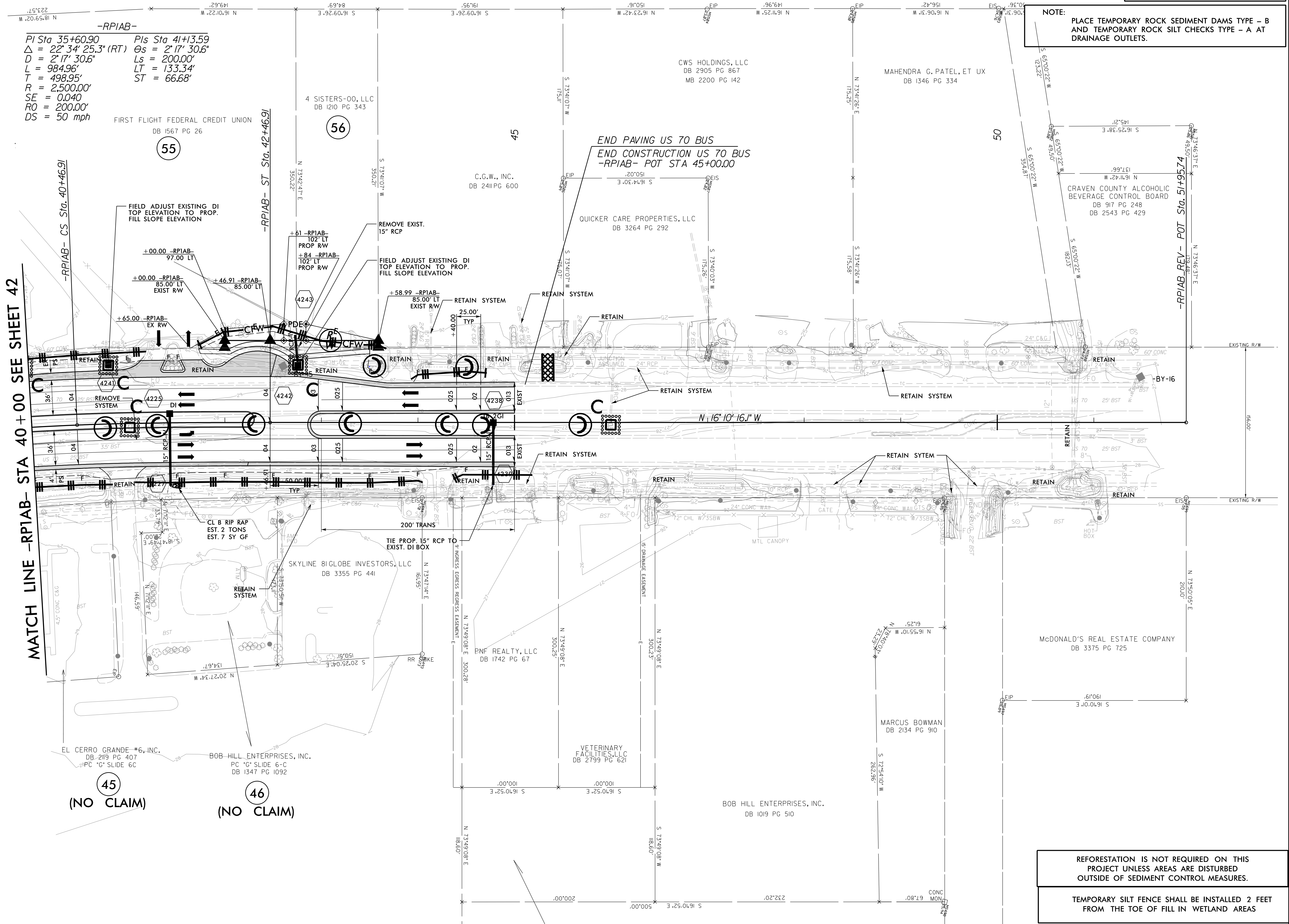
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REFORESTATION IS NOT REQUIRED ON THIS
PROJECT UNLESS AREAS ARE DISTURBED
OUTSIDE OF SEDIMENT CONTROL MEASURES.

**CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 42A**



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



-RPIAB-
 PI Sta 35+60.90 Pls Sta 41+3.59
 $\Delta = 22^\circ 34' 25.3''$ (RT) $\Theta_s = 2^\circ 17' 30.6''$
 $D = 2^\circ 17' 30.6''$ $L_s = 200.00'$
 $L = 984.96'$ $LT = 133.34'$
 $T = 498.95'$ $ST = 66.68'$
 $R = 2,500.00'$
 $SE = 0.040$
 $RO = 200.00'$
 $DS = 50$ mph

MATCH LINE -RPIAB- STA 40+00 SEE SHEET 42

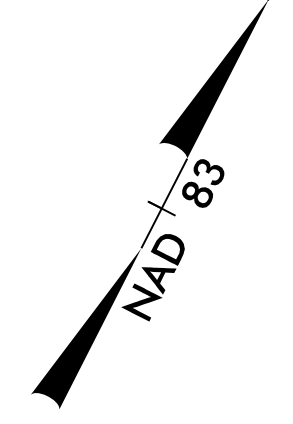
REFORESTATION IS NOT REQUIRED ON THIS
 PROJECT UNLESS AREAS ARE DISTURBED
 OUTSIDE OF SEDIMENT CONTROL MEASURES.

TEMPORARY SILT FENCE SHALL BE INSTALLED 2 FEET
 FROM THE TOE OF FILL IN WETLAND AREAS

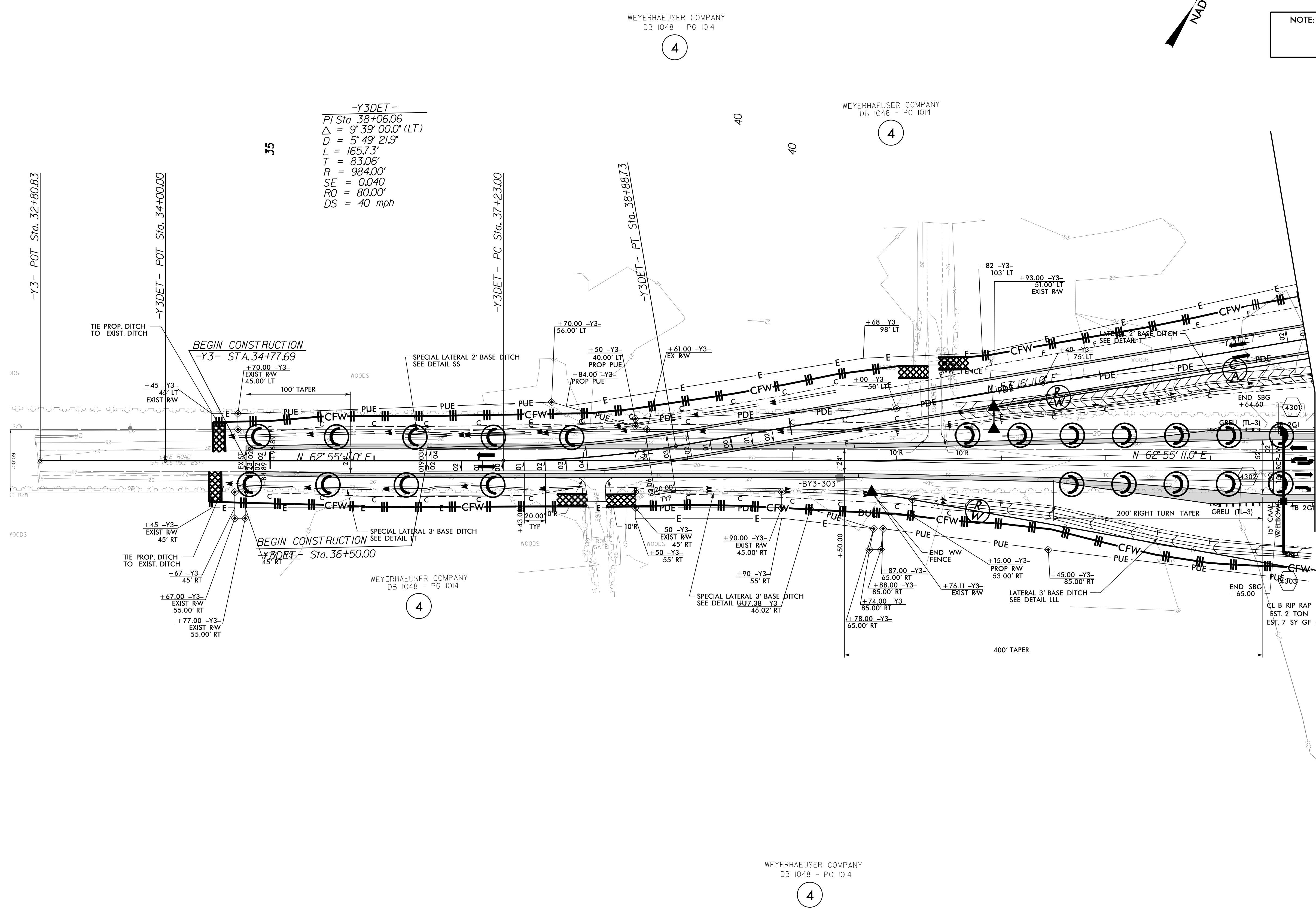
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**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 43**

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



-Y3DET-
PI Sta 38+06.06
 $\Delta = 9^{\circ} 39' 00.0''$ (LT)
D = 5' 49' 21.9"
L = 165.73'
T = 83.06'
R = 984.00'
SE = 0.040
RO = 80.00'
DS = 40 mph



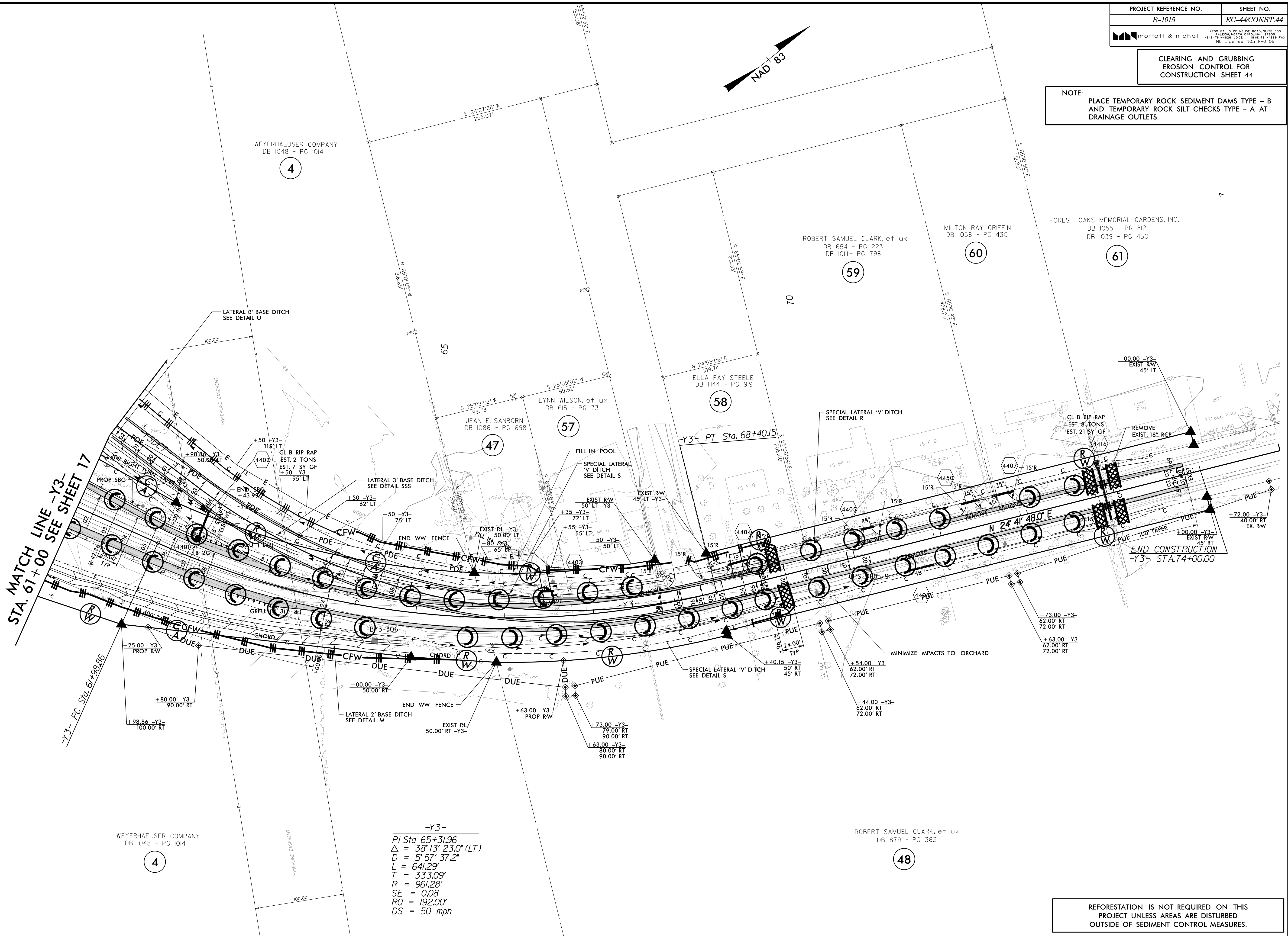
MATCH LINE -Y3- STA. 45+00 SEE SHEET 17

REFORESTATION IS NOT REQUIRED ON THIS
PROJECT UNLESS AREAS ARE DISTURBED
OUTSIDE OF SEDIMENT CONTROL MEASURES.

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**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 44**

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



-Y3-
PI Sta 65+31.96
Δ = 38'13" 23.0" (LT)
D = 5'57" 37.2"
L = 641.29'
T = 333.09'
R = 961.28'
SE = 0.08
RO = 192.00'
DS = 50 mph

REFORESTATION IS NOT REQUIRED ON THIS
PROJECT UNLESS AREAS ARE DISTURBED
OUTSIDE OF SEDIMENT CONTROL MEASURES.

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**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 45**

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.

2

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

MICHAEL O. WOODRUFF, et ux
DB 1494 - PG 68

100 x 23 x 2
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
9 ft. weir
ID 45.1

70 x 23 x 2
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
6 ft. weir
ID 45.2

-Y4DR-
PI Sta 10+97.71
 $\Delta = 80' 24' 31.6''$ (RT)
 $D = 95' 29' 34.7''$
 $L = 84.20'$
 $T = 50.71'$
 $R = 60.00'$
 $SE = NC$

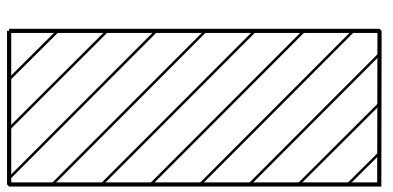
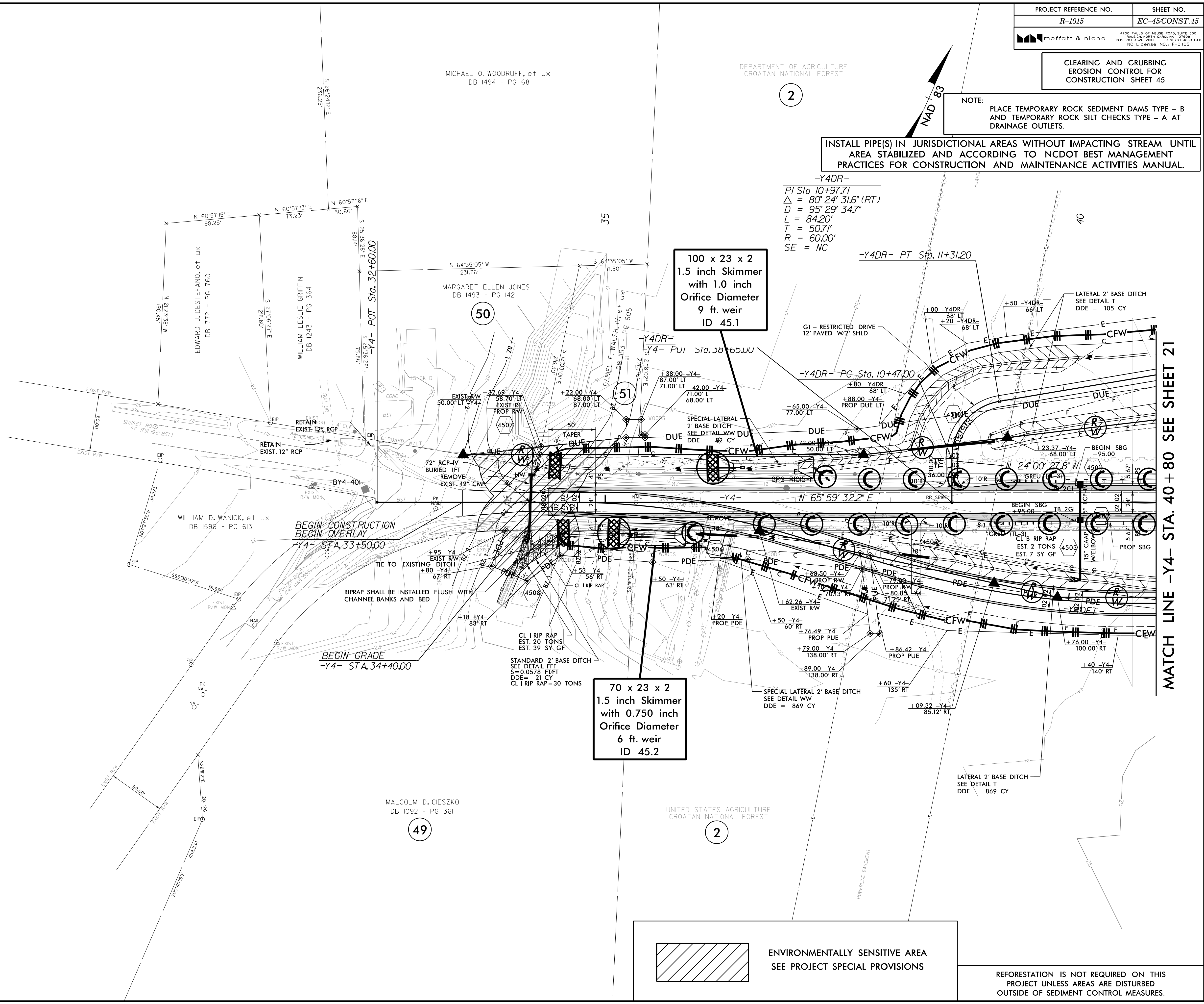
-Y4DR- PT Sta. 11+31.20

-Y4DR- PG Sta. 10+47.00

-Y4- N 65° 59' 32.2" E

N 24° 00' 27.8" W

MATCH LINE -Y4- STA. 40 + 80 SEE SHEET 21



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

REFORESTATION IS NOT REQUIRED ON THIS
PROJECT UNLESS AREAS ARE DISTURBED
OUTSIDE OF SEDIMENT CONTROL MEASURES.

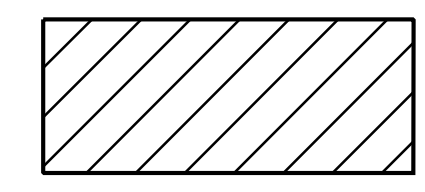
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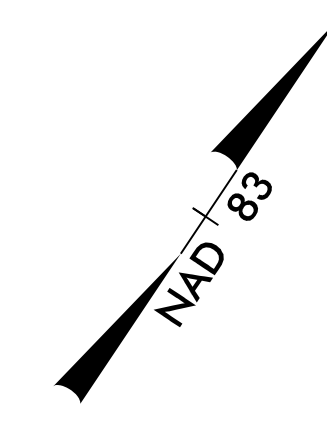
CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 46

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

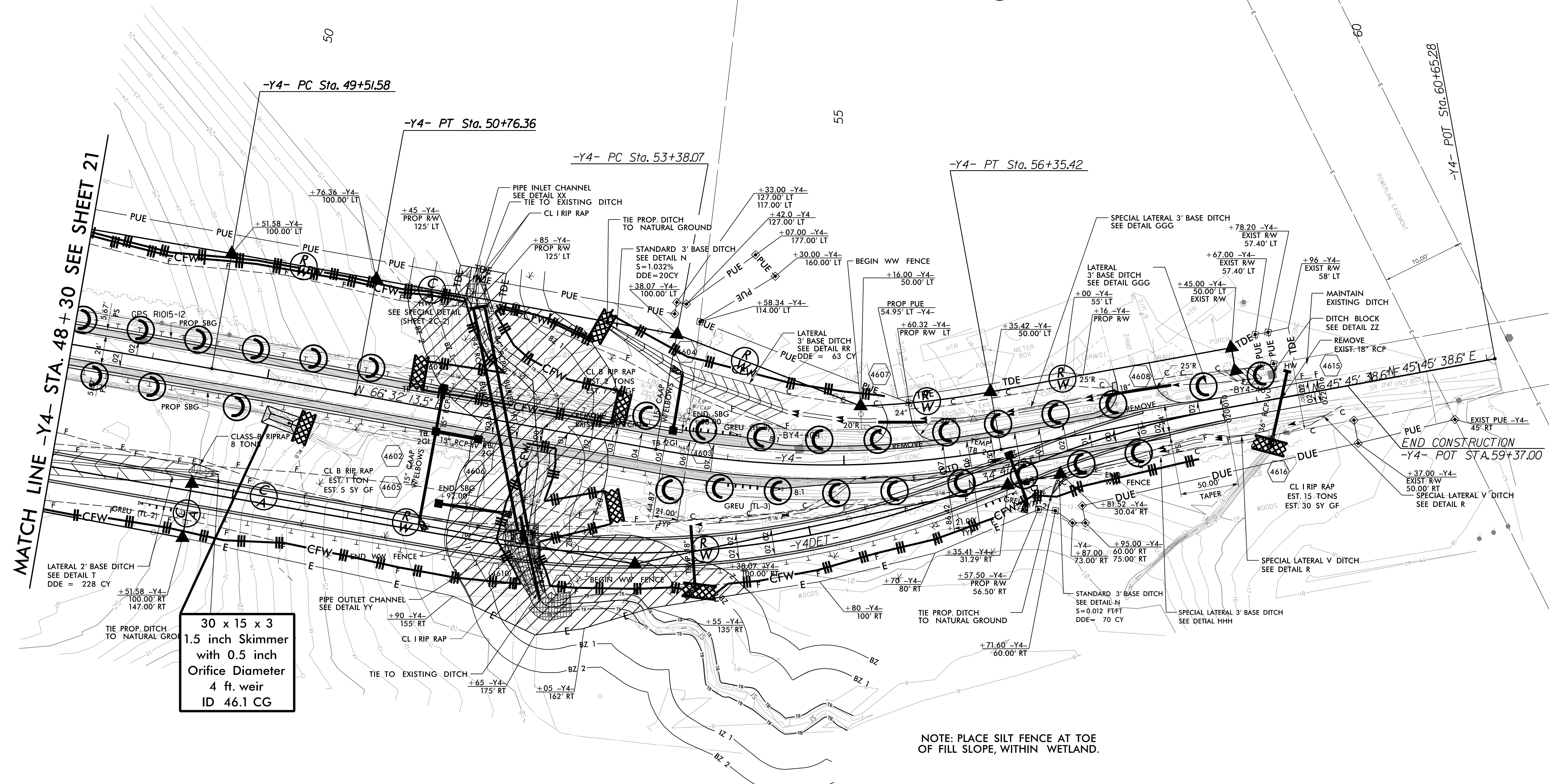


DENNIS R. LAUGHLIN
 DB 1629 - PG 981
 DB 1629 - PG 977

52

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST

2



MATCH LINE -Y4- STA. 48+30 SEE SHEET 21

30 x 15 x 3
 1.5 inch Skimmer
 with 0.5 inch
 Orifice Diameter
 4 ft. weir
 ID 46.1 CG

NOTE: PLACE SILT FENCE AT TOE
 OF FILL SLOPE, WITHIN WETLAND.

-Y4-	
PI Sta 50+13.97	PI Sta 54+88.39
$\Delta = 0^\circ 32' 41.2''$ (RT)	$\Delta = 20^\circ 46' 34.8''$ (LT)
$D = 0' 26' 11.8''$	$D = 6' 59' 14.2''$
$L = 124.78'$	$L = 297.34'$
$T = 62.39'$	$T = 150.32'$
$R = 13123.00'$	$R = 820.00'$
$SE = NC$	$SE = 0.070$
	$RO = 147.00'$
	$DS = 40$ mph

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST

2

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

REFORESTATION IS NOT REQUIRED ON THIS
 PROJECT UNLESS AREAS ARE DISTURBED
 OUTSIDE OF SEDIMENT CONTROL MEASURES.

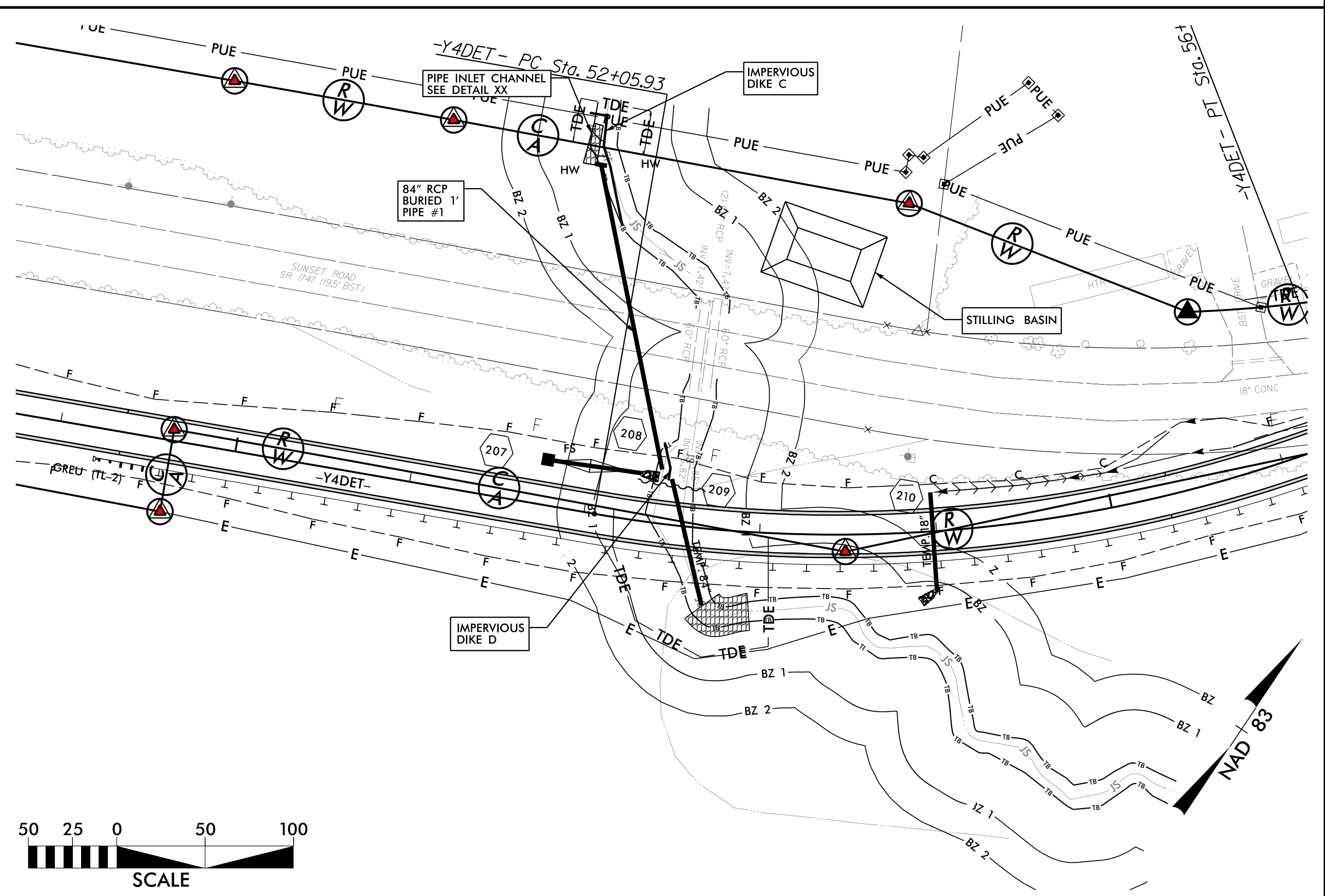
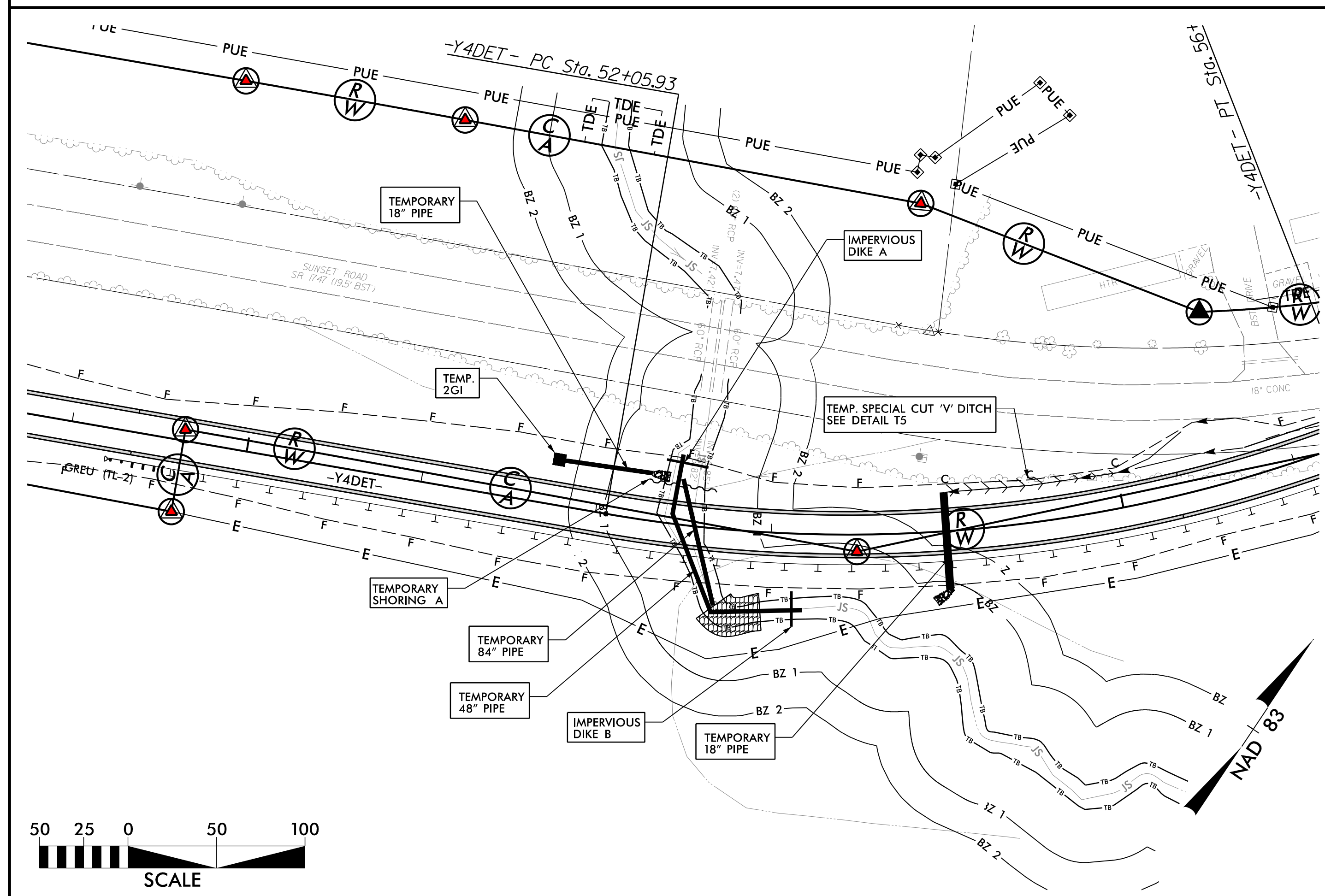
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PIPE CULVERT CONSTRUCTION SEQUENCE

STA. 52+04 -Y4-

PHASE I

PHASE IIA



CULVERT CONSTRUCTION SEQUENCE

1. UTILIZE SPECIAL STILLING BASINS AS NEEDED THROUGHOUT THIS PIPE CULVERT CONSTRUCTION SEQUENCE.
2. INSTALL TEMPORARY 48" PIPE.
3. INSTALL IMPERVIOUS DIKES A AND B.
4. INSTALL TEMPORARY 84" PIPE AND STREAMBANK IMPROVEMENTS.
5. REMOVE THE TEMPORARY 48" PIPE ALONG WITH IMPERVIOUS DIKES A AND B.
6. INSTALL TEMPORARY SHORING A AND BUILD UP -Y4- DET.
7. INSTALL TEMPORARY 2GI AND 18" PIPE SYSTEM AND INSTALL THE TEMPORARY SPECIAL CUT "V" DITCH AND 18" CROSS PIPE TO CONVEY DRAINAGE BETWEEN -Y4- DETOUR AND -Y4-.

CULVERT CONSTRUCTION SEQUENCE

8. SHIFT TRAFFIC ONTO -Y4- DETOUR.
9. INSTALL STILLING BASIN (MIN 109 C.Y.)
10. INSTALL IMPERVIOUS DIKES C AND D TO ENSURE FLOW IS IN EXISTING CHANNEL, EXISTING PIPES, AND TEMP. 84" PIPE.
11. INSTALL PIPE #1 FROM INLET AND PAST PHASE 3 TEMP. SHORING B. (APPROX. 175'). CONSTRUCT WEST BANK OF INLET CHANNEL DETAIL.

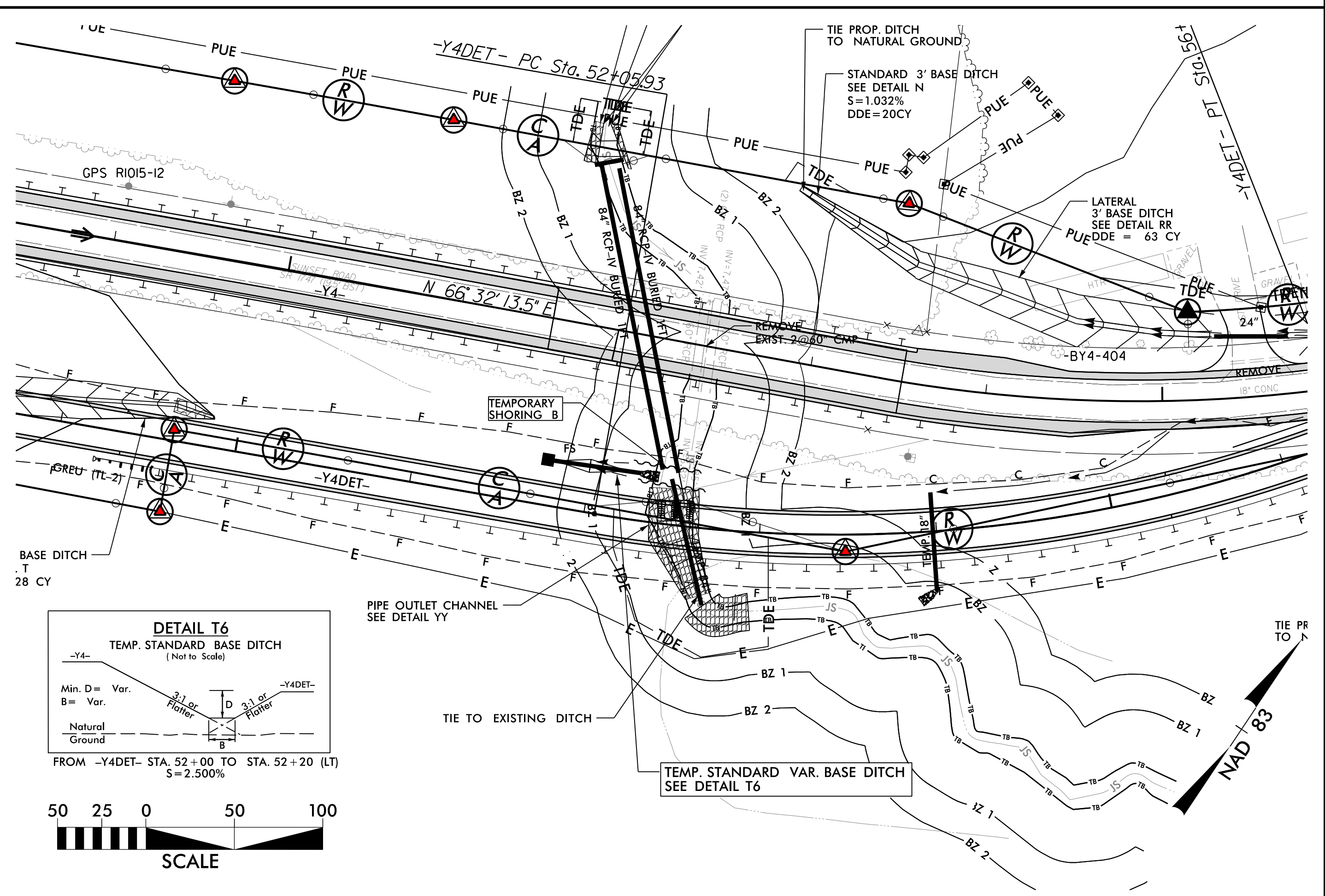
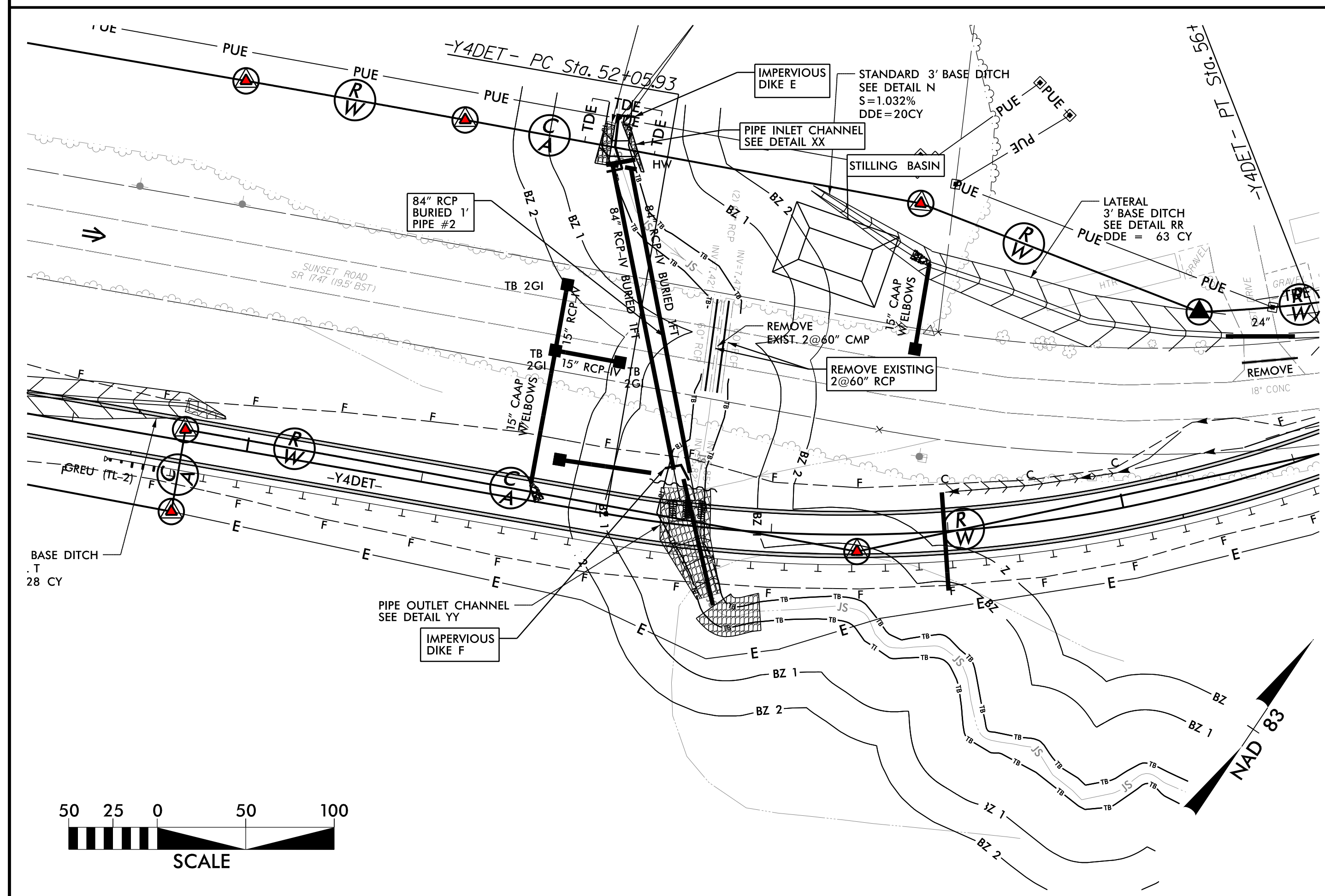
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PIPE CULVERT CONSTRUCTION SEQUENCE

STA. 52+04 -Y4-

PHASE IIB

PHASE III



CULVERT CONSTRUCTION SEQUENCE

1. REMOVE IMPERVIOUS DIKES C AND D AND INSTALL IMPERVIOUS DIKES E AND F.
2. INSTALL PIPE #2 FROM INLET END PAST PHASE 3 TEMP. SHORING B (APPROX. 175'). CONSTRUCT EAST BANK OF PIPE INLET CHANNEL DETAIL.
3. REMOVE EXISTING 2@60" RCP, WHILE PUMPING EFFLUENT INTO STILLING BASIN.
4. REMOVE IMPERVIOUS DIKES AND STILLING BASIN.

CULVERT CONSTRUCTION SEQUENCE

5. CONSTRUCT -Y4- AND TEMPORARY SHORING B.
6. CONSTRUCT TEMPORARY STANDARD BASE DITCH TO CONVEY DRAINAGE TO TEMP. 2GI AND TEMP 18" PIPE. MAINTAIN PREVIOUSLY CONSTRUCTED TEMP. SP. CUT DITCH TO CONVEY DRAINAGE BETWEEN -Y4- DETOUR AND -Y4- TO TEMP. 18" CROSS PIPE.

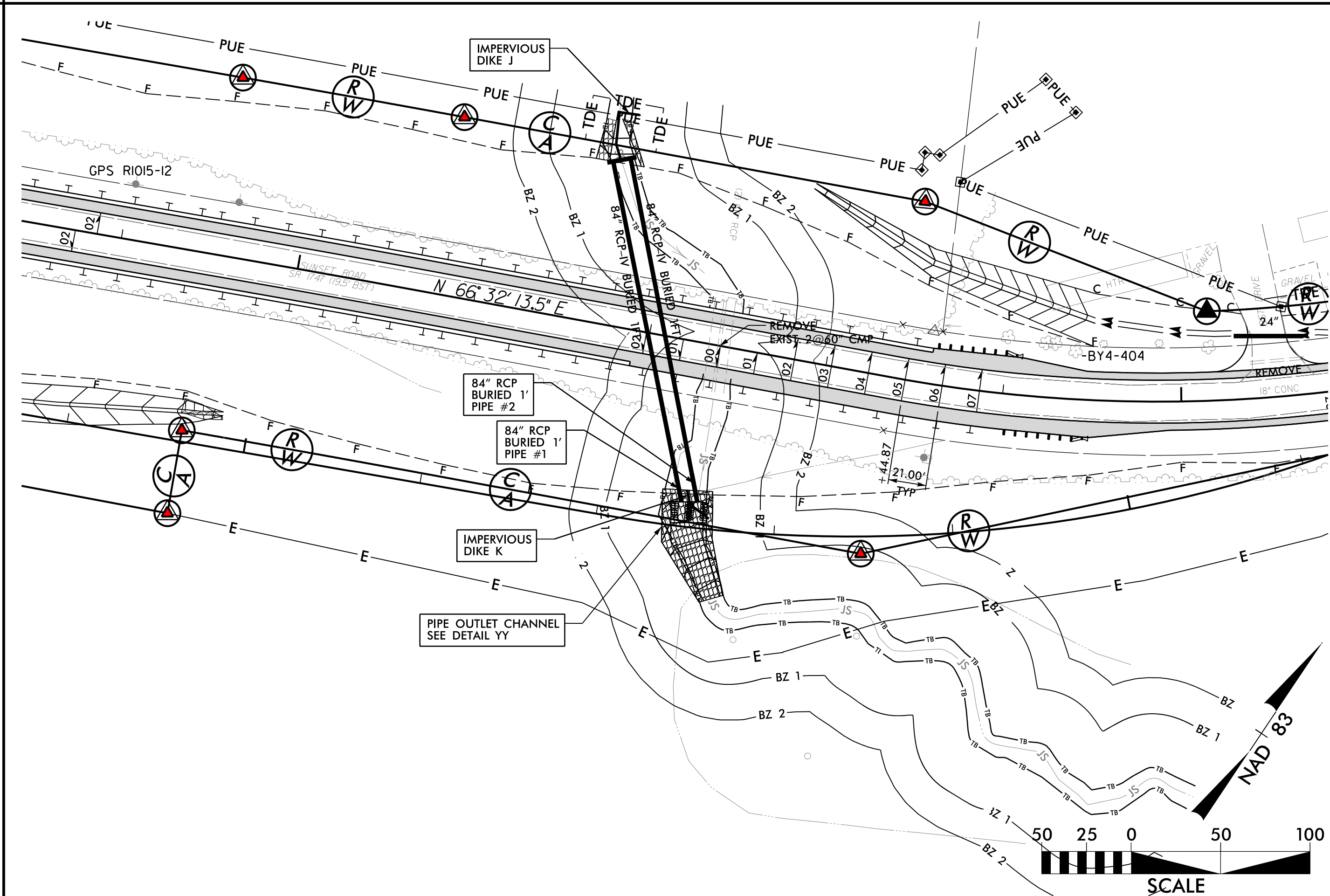
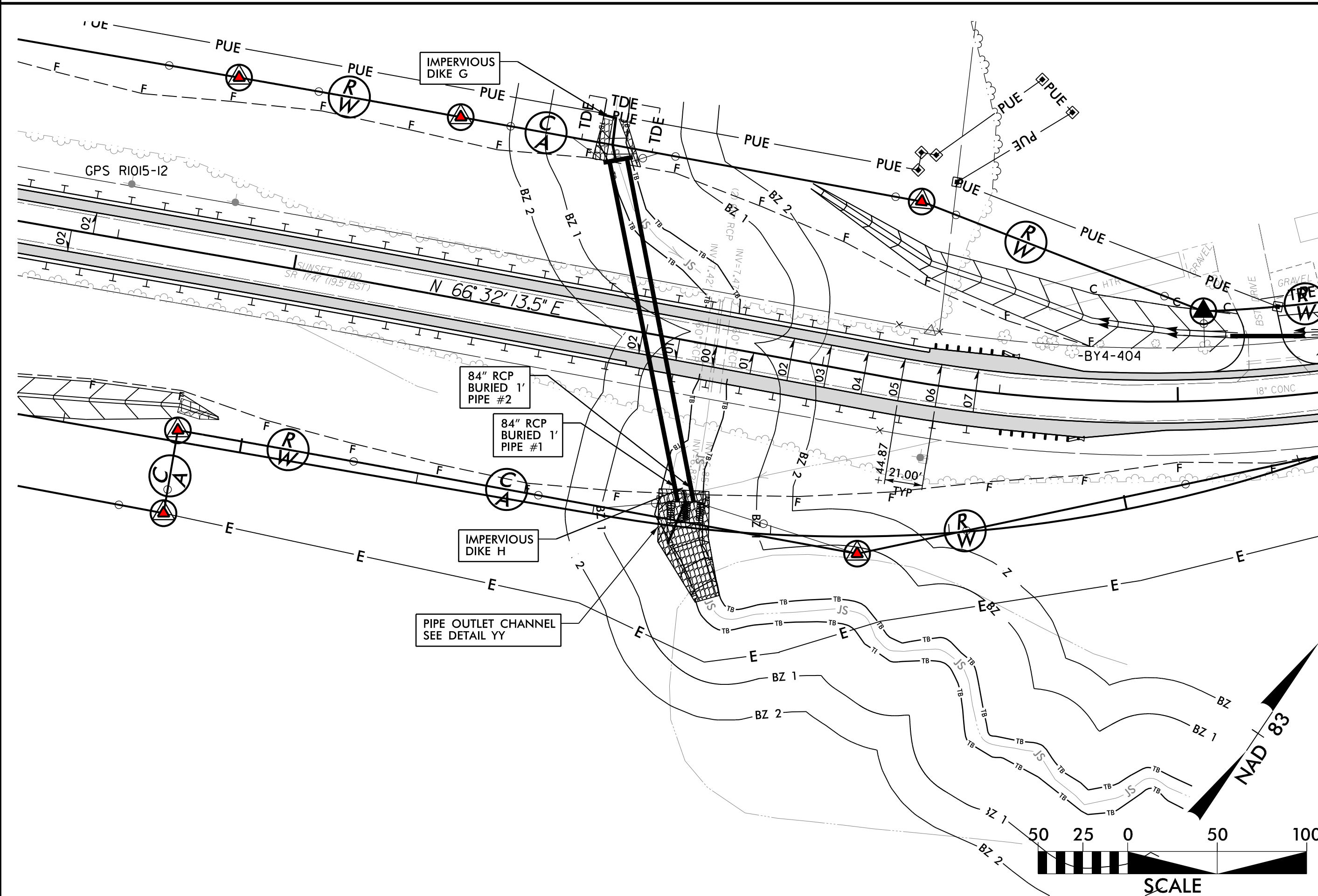
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PIPE CULVERT CONSTRUCTION SEQUENCE

STA. 52 + 04 -Y4-

PHASE IV

PHASE V



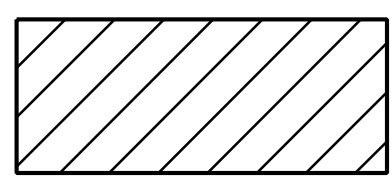
CULVERT CONSTRUCTION SEQUENCE

1. ONCE TRAFFIC HAS BEEN SHIFTED TO NEWLY CONSTRUCTED -Y4-, REMOVE -Y4DET- INCLUDING TEMPORARY DRAINAGE FEATURES AND SHORING
2. USE IMPERVIOUS DIKES TO BLOCK FLOW FROM INLET OF ONE PIPE AT A TIME, IN ORDER TO CONSTRUCT REMAINDER OF PIPES AND OUTLET CHANNEL. WORK ON ONE SIDE, BLOCK FLOW IN OTHER PIPE, AND COMPLETE PIPE AND CHANNEL WORK.
3. STABILIZE DISTURBED AREAS.

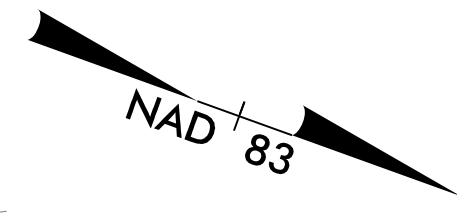
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 47

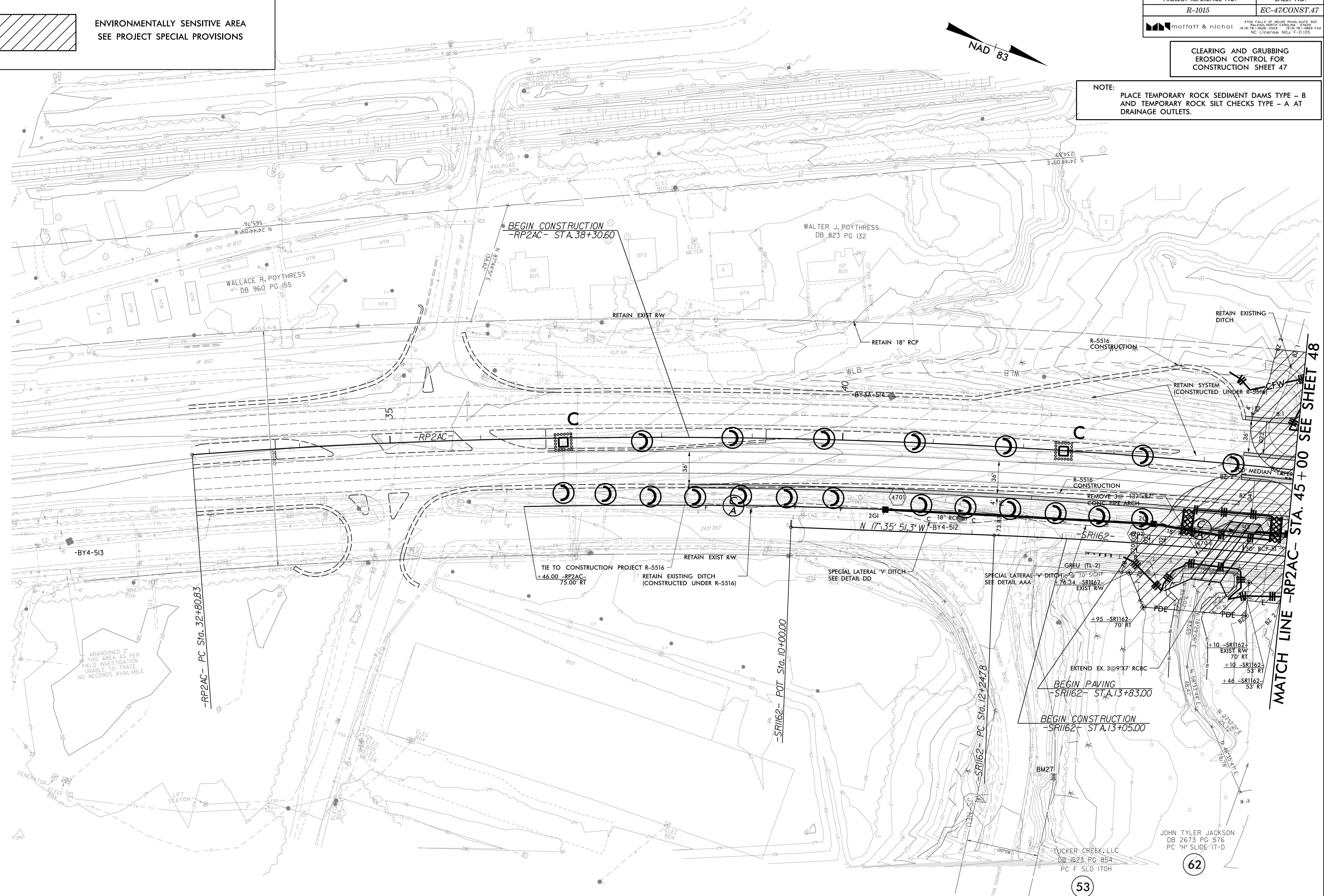
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



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MATCH LINE -RP2AC- STA. 45+00 SEE SHEET 48

JOHN TYLER JACKSON
DB 2673 PG 576
PC TH SLIDE 17-D

62

53

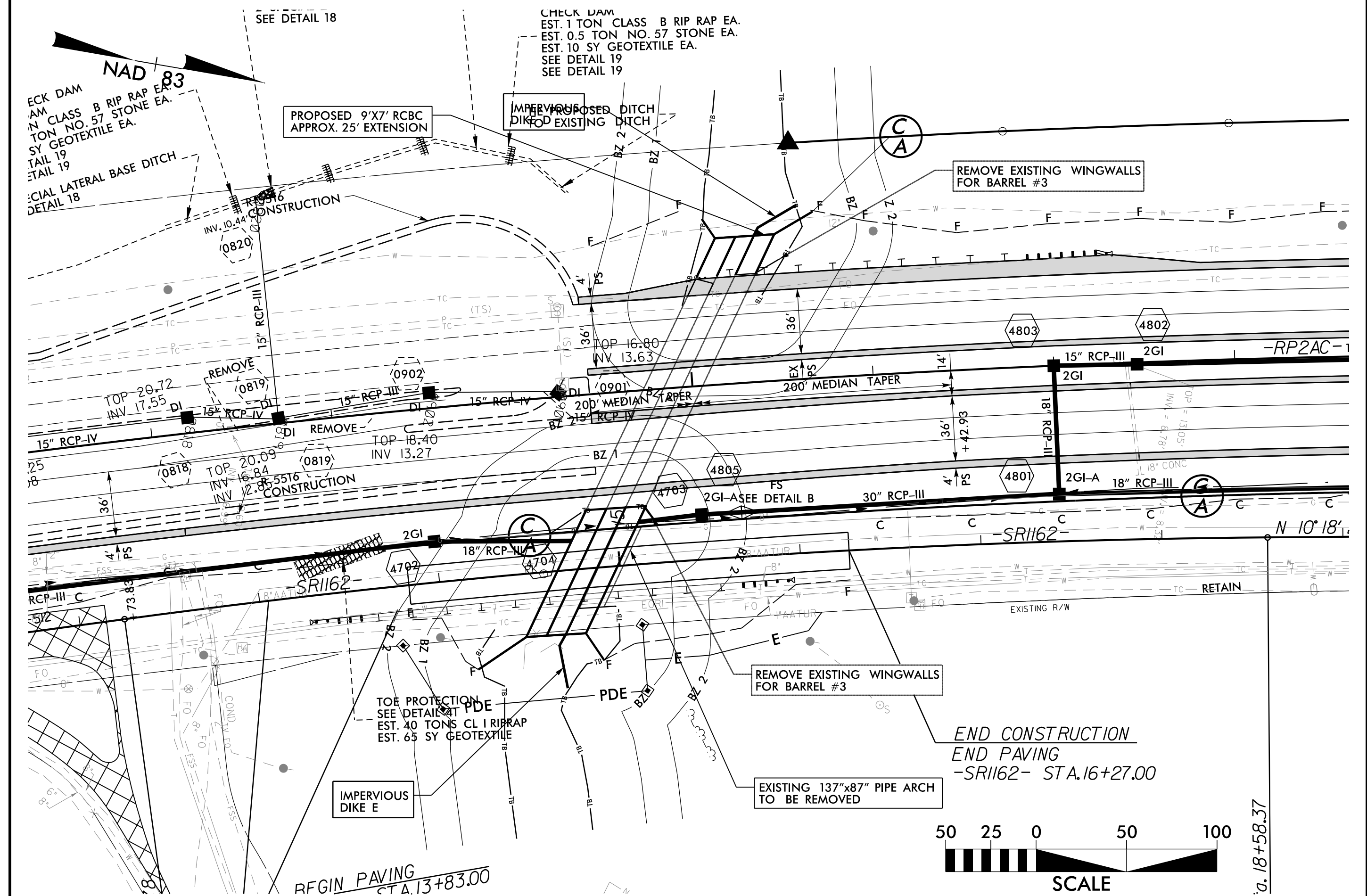
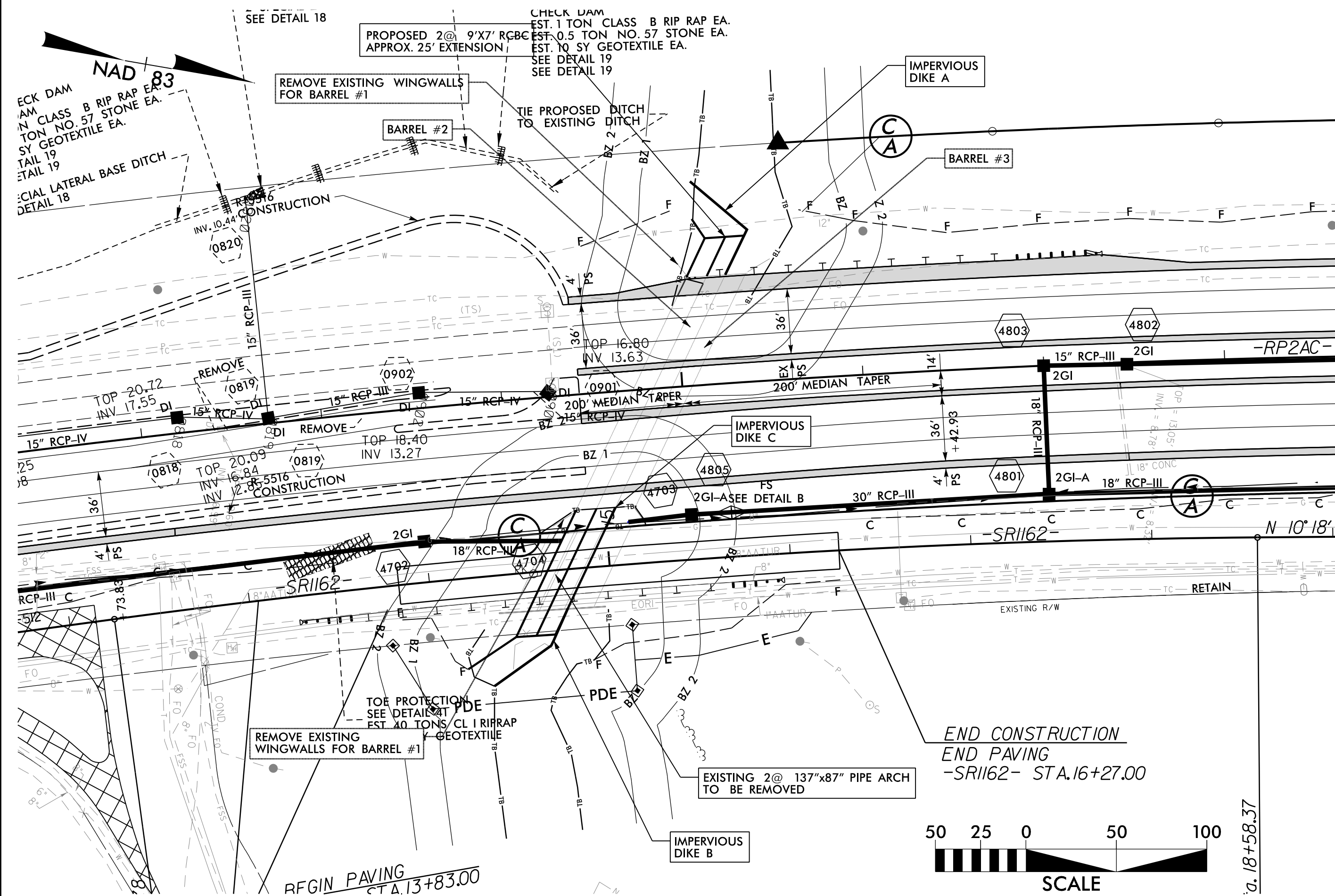
REFORESTATION IS NOT REQUIRED ON THIS
PROJECT UNLESS AREAS ARE DISTURBED
OUTSIDE OF SEDIMENT CONTROL MEASURES.

CULVERT CONSTRUCTION SEQUENCE

STA. 44 + 89 -RP2AC-

PHASE I

PHASE II



CULVERT CONSTRUCTION SEQUENCE

CULVERT CONSTRUCTION SEQUENCE

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEED THROUGHOUT THE CULVERT CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES A, B TO DIVERT FLOW INTO BARREL 3.
3. INSTALL IMPERVIOUS DIKE C BETWEEN BARREL 2 AND CORRESPONDING PIPE ARCH.
4. REMOVE THE EXISTING WINGWALL AND HEADWALL FOR BARREL 1 AND 2.
5. REMOVE THE PIPE ARCH BARRELS FOLLOWING BARREL 1 AND 2.
6. CONSTRUCT THE BARREL EXTENSIONS FOR BARREL 1 AND 2.

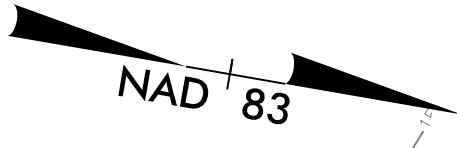
7. REMOVE IMPERVIOUS DIKES A, B AND C THEN INSTALL IMPERVIOUS DIKES D AND E TO DIVERT FLOW INTO BARRELS 1 AND 2.
8. REMOVE THE EXISTING WINGWALLS AND HEADWALLS FOR BARREL 3.
9. REMOVE THE PIPE ARCH BARREL FOLLOWING BARREL 3.
10. INSTALL THE EXTENSION FOR BARREL 3 AND WINGWALLS.
11. REMOVE IMPERVIOUS DIKES C AND D AND COMPLETE ROADWAY.

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**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 48**

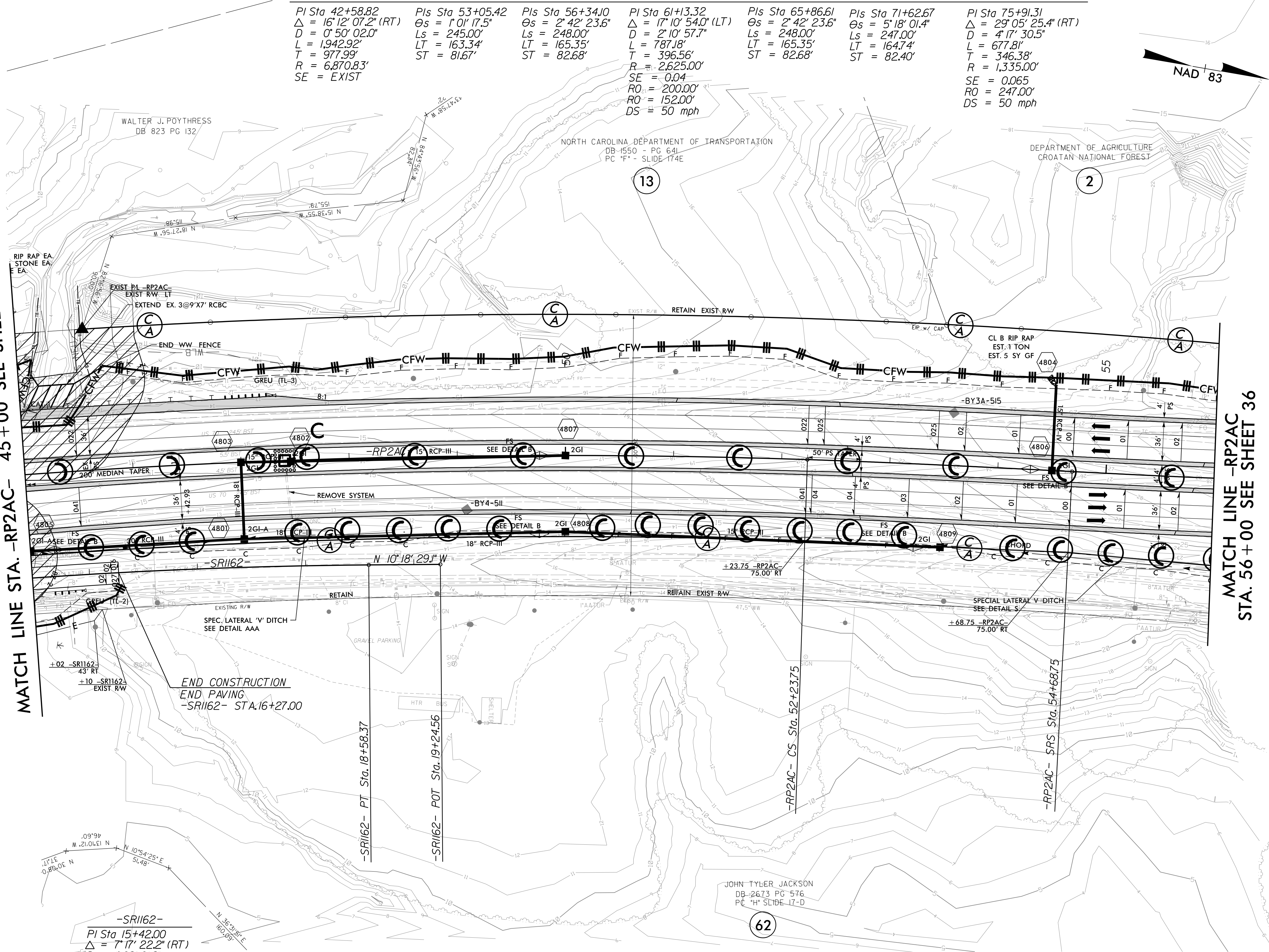
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-RP2AC-						
PI Sta 42+58.82 Δ = 16°12'07.2" (RT) D = 0°50'02.0" L = 1,942.92' T = 977.99' R = 6,870.83' SE = EXIST	PIs Sta 53+05.42 Θs = 1°01'17.5" Ls = 245.00' LT = 163.34' ST = 81.67'	PIs Sta 56+34.10 Θs = 2°42'23.6" Ls = 248.00' LT = 165.35' ST = 82.68'	PI Sta 61+13.32 Δ = 17°10'54.0" (LT) D = 2°10'57.7" L = 787.18' T = 396.56' R = 2,625.00' SE = 0.04 RO = 200.00' RO = 152.00' DS = 50 mph	PIs Sta 65+86.61 Θs = 2°42'23.6" Ls = 248.00' LT = 165.35' ST = 82.68'	PIs Sta 71+62.67 Θs = 5°18'01.4" Ls = 247.00' LT = 164.74' ST = 82.40'	PI Sta 75+91.31 Δ = 29°05'25.4" (RT) D = 4°17'30.5" L = 677.81' T = 346.38' R = 1,335.00' SE = 0.065 RO = 247.00' DS = 50 mph

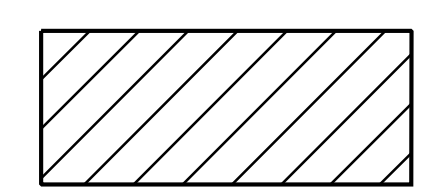


MATCH LINE STA. -RP2AC- 45+00 SEE SHEET 47

MATCH LINE -RP2AC
STA. 56+00 SEE SHEET 36



-SRI162-
PI Sta 15+42.00 Δ = 7°17'22.2" (RT) D = 1°09'01.9" L = 633.58' T = 317.22' R = 4,980.00' SE = NC DS = 40 mph



**ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS**

REFORESTATION IS NOT REQUIRED ON THIS
PROJECT UNLESS AREAS ARE DISTURBED
OUTSIDE OF SEDIMENT CONTROL MEASURES.

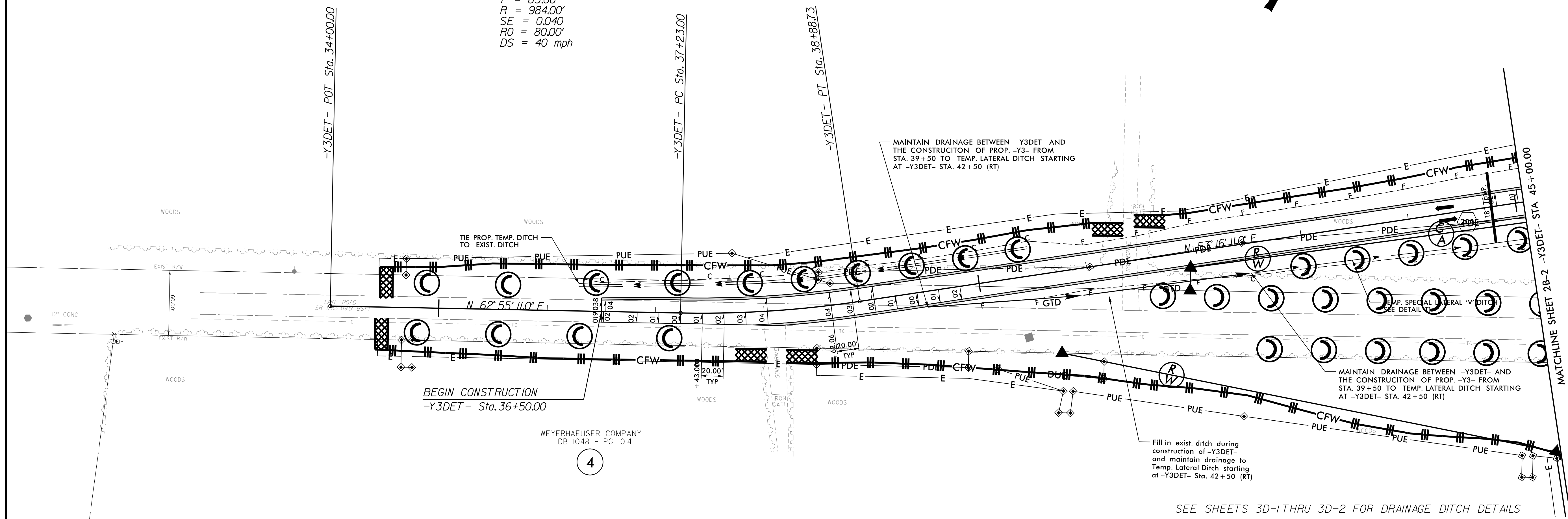
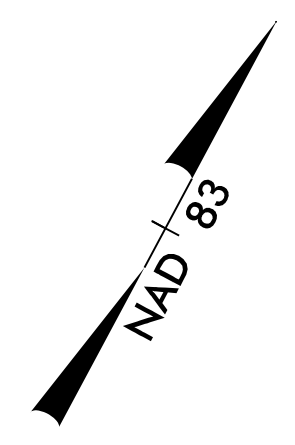
8/17/99
1/17/2008
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5/28/99

DETAIL FOR -Y3- DETOUR

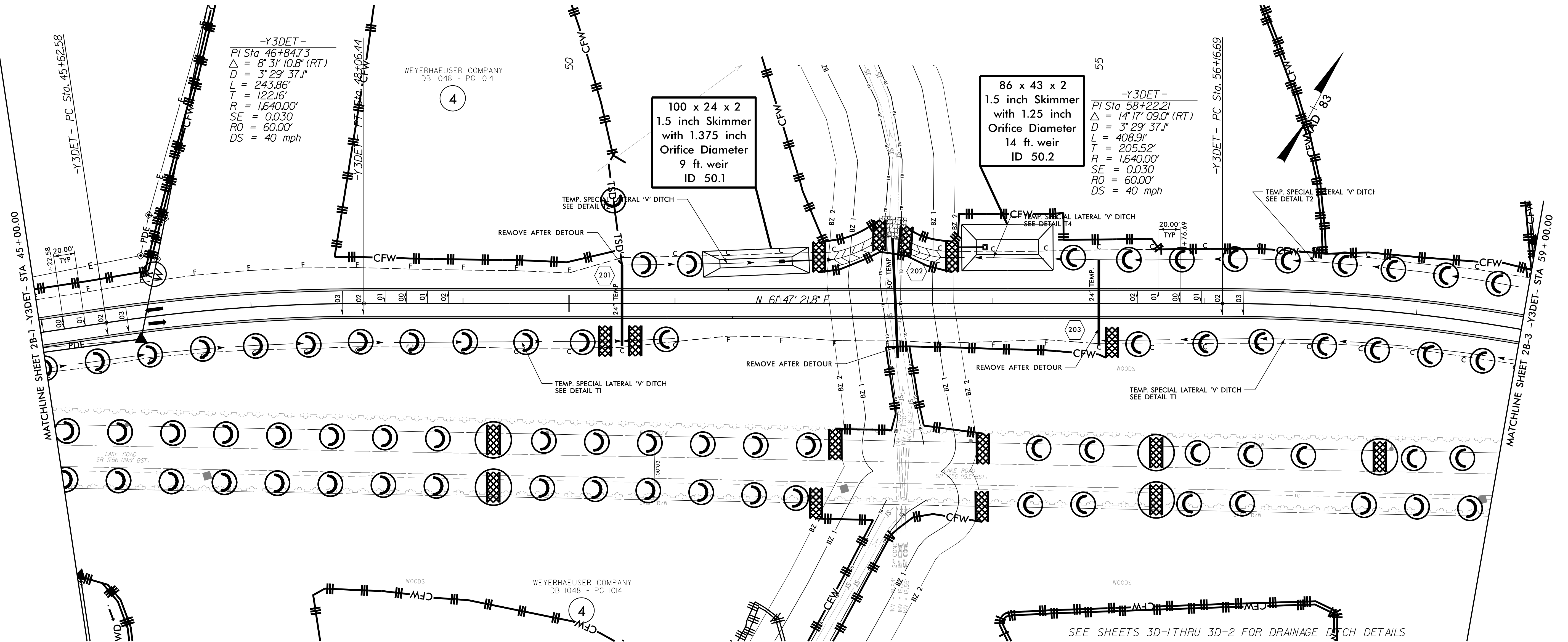
-Y3DET-
 PI Sta. 38+06.06
 $\Delta = 9^{\circ} 39' 00.0''$ (LT)
 $D = 5^{\circ} 49' 21.9''$
 $L = 165.73'$
 $T = 83.06'$
 $R = 984.00'$
 $SE = 0.040$
 $RO = 80.00'$
 $DS = 40$ mph

WEYERHAEUSER COMPANY
 DB 1048 - PG 1014
 (4)



I:\7\2008\05\F68729-02\CADD\N\1015\Roadside\R-1015_REU\EC-49_PSH_2B-1-DET-FINAL.dgn

DETAIL FOR -Y3- DETOUR



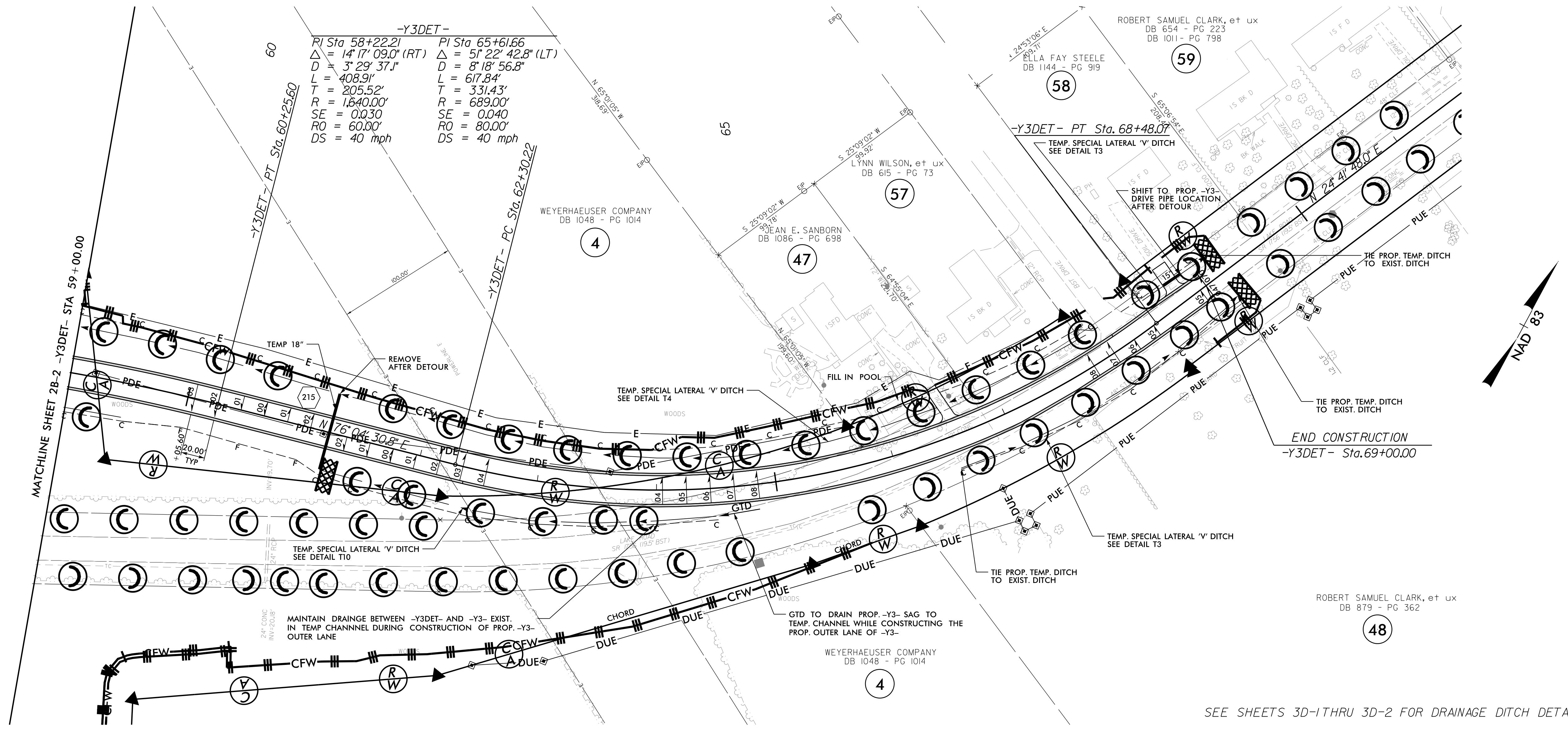
-Y3DET-
 PI Sta 46+84.73
 $\Delta = 8' 31'' 10.8'' (RT)$
 $D = 3' 29' 37.1''$
 $L = 243.86'$
 $T = 122.16'$
 $R = 1,640.00'$
 $SE = 0.030$
 $RO = 60.00'$
 $DS = 40 \text{ mph}$

-Y3DET-
 PI Sta 58+22.21
 $\Delta = 14' 17'' 09.0'' (RT)$
 $D = 3' 29' 37.1''$
 $L = 408.91'$
 $T = 205.52'$
 $R = 1,640.00'$
 $SE = 0.030$
 $RO = 60.00'$
 $DS = 40 \text{ mph}$

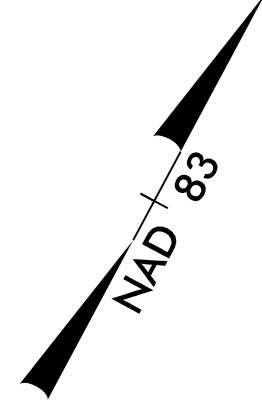
100 x 24 x 2
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 9 ft. weir
 ID 50.1

86 x 43 x 2
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 14 ft. weir
 ID 50.2

DETAIL FOR -Y3- DETOUR



SEE SHEETS 3D-1 THRU 3D-2 FOR DRAINAGE DITCH DETAILS

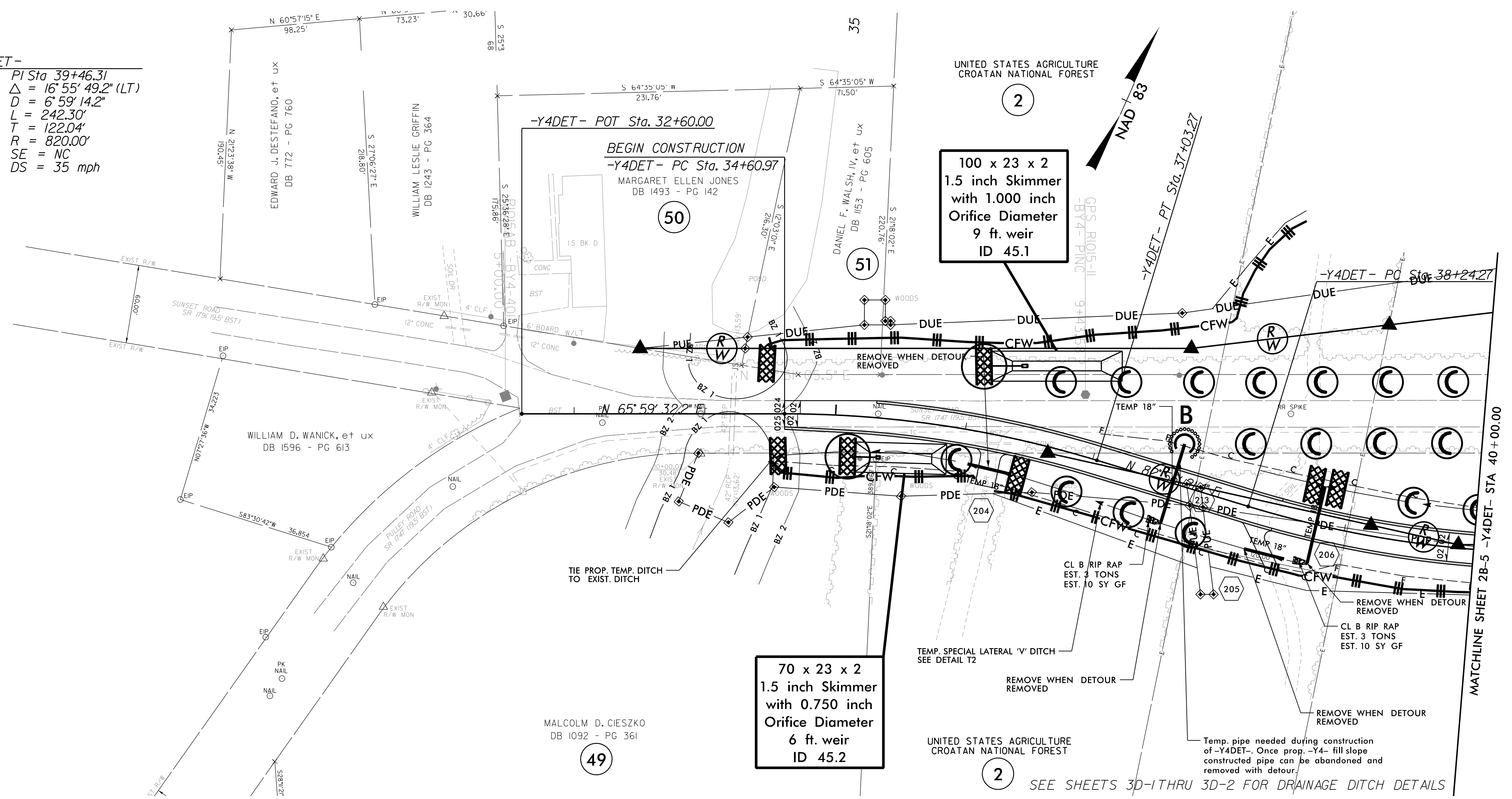


8.17.99
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DETAIL FOR -Y4- DETOUR

-Y4DET-

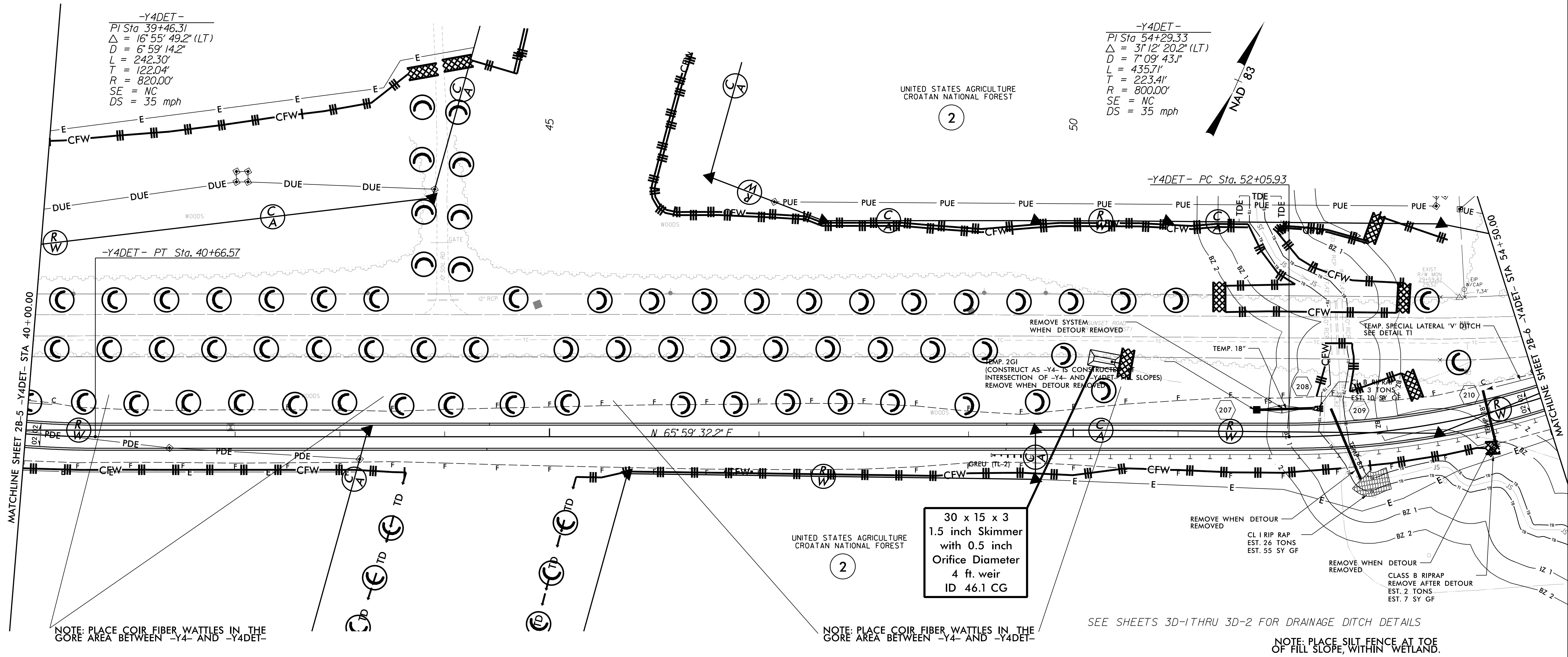
PI Sta 35+83.01	PI Sta 39+46.31
$\Delta = 16^{\circ}55'49.1''$ (RT)	$\Delta = 16^{\circ}55'49.2''$ (LT)
D = 6'59'14.2"	D = 6'59'14.2"
L = 242.30'	L = 242.30'
T = 122.04'	T = 122.04'
R = 820.00'	R = 820.00'
SE = NC	SE = NC
DS = 35 mph	DS = 35 mph



5/28/99

I:\768\9729-02\CADD\N\1015\Roadside\R-1015_REU\EC-52.PSH_2B-4-DET-FINAL.dgn
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 10/17/2008 10:48:29 AM
 10/17/2008 10:48:29 AM

DETAIL FOR -Y4- DETOUR



-Y4DET-
 PI Sta 39+46.31
 $\Delta = 16^\circ 55' 49.2''$ (LT)
 $D = 6' 59' 14.2''$
 $L = 242.30'$
 $T = 122.04'$
 $R = 820.00'$
 $SE = NC$
 $DS = 35$ mph

-Y4DET-
 PI Sta 54+29.33
 $\Delta = 3^\circ 12' 20.2''$ (LT)
 $D = 7' 09' 43.1''$
 $L = 435.71'$
 $T = 223.41'$
 $R = 800.00'$
 $SE = NC$
 $DS = 35$ mph

30 x 15 x 3
 1.5 inch Skimmer
 with 0.5 inch
 Orifice Diameter
 4 ft. weir
 ID 46.1 CG

NOTE: PLACE COIR FIBER WATTLES IN THE GORE AREA BETWEEN -Y4- AND -Y4DET-

NOTE: PLACE COIR FIBER WATTLES IN THE GORE AREA BETWEEN -Y4- AND -Y4DET-

SEE SHEETS 3D-1 THRU 3D-2 FOR DRAINAGE DITCH DETAILS

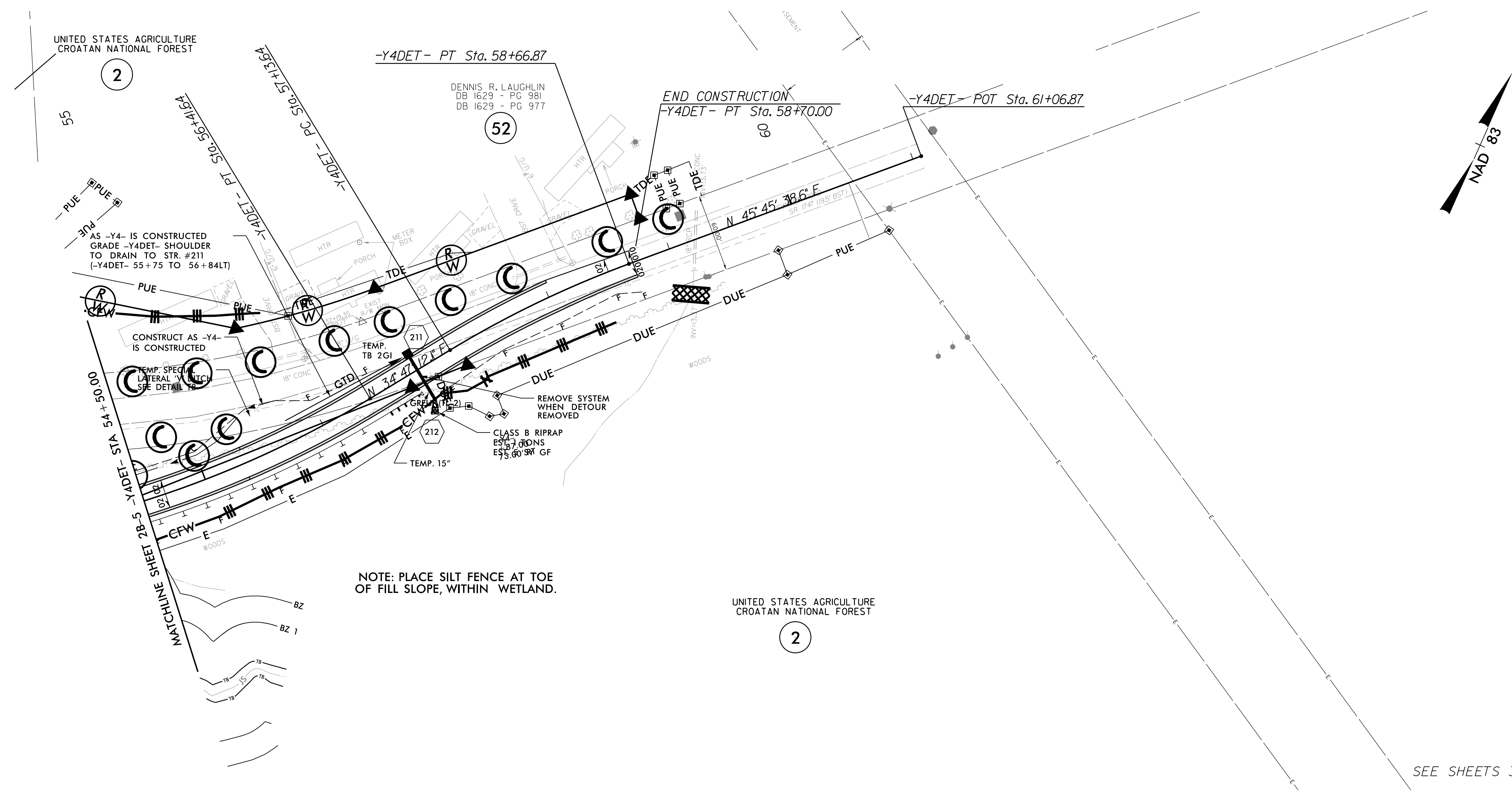
NOTE: PLACE SILT FENCE AT TOE OF FILL SLOPE, WITHIN WETLAND.

I:\74208\05\1015\Roadside\1015_REU\EC-53_PSH_2B-5_DET_FINAL.dgn
 10/17/2008 9:29:02 AM
 1015\Roadside\1015_REU\EC-53_PSH_2B-5_DET_FINAL.dgn

MATCHLINE SHEET 2B-5 -Y4DET- STA 40+00.00

MATCHLINE SHEET 2B-2 -Y4DET- STA 52+05.93

DETAIL FOR -Y4- DETOUR



-Y4DET-

PI Sta 54+29.33	PI Sta 57+90.49
$\Delta = 31^{\circ} 12' 20.2''$ (LT)	$\Delta = 10^{\circ} 58' 26.6''$ (RT)
D = 7' 09' 43.1"	D = 7' 09' 43.1"
L = 435.71'	L = 153.23'
T = 223.41'	T = 76.85'
R = 800.00'	R = 800.00'
SE = NC	SE = NC
DS = 35 mph	DS = 35 mph

I:\7468\729-02\CADD\N\1015\Roadside\R-1015_REU\EC-54_PSH_2B-6-DET-FINAL.dgn

SEE SHEETS 3D-1THRU 3D-2 FOR DRAINAGE DITCH DETAILS

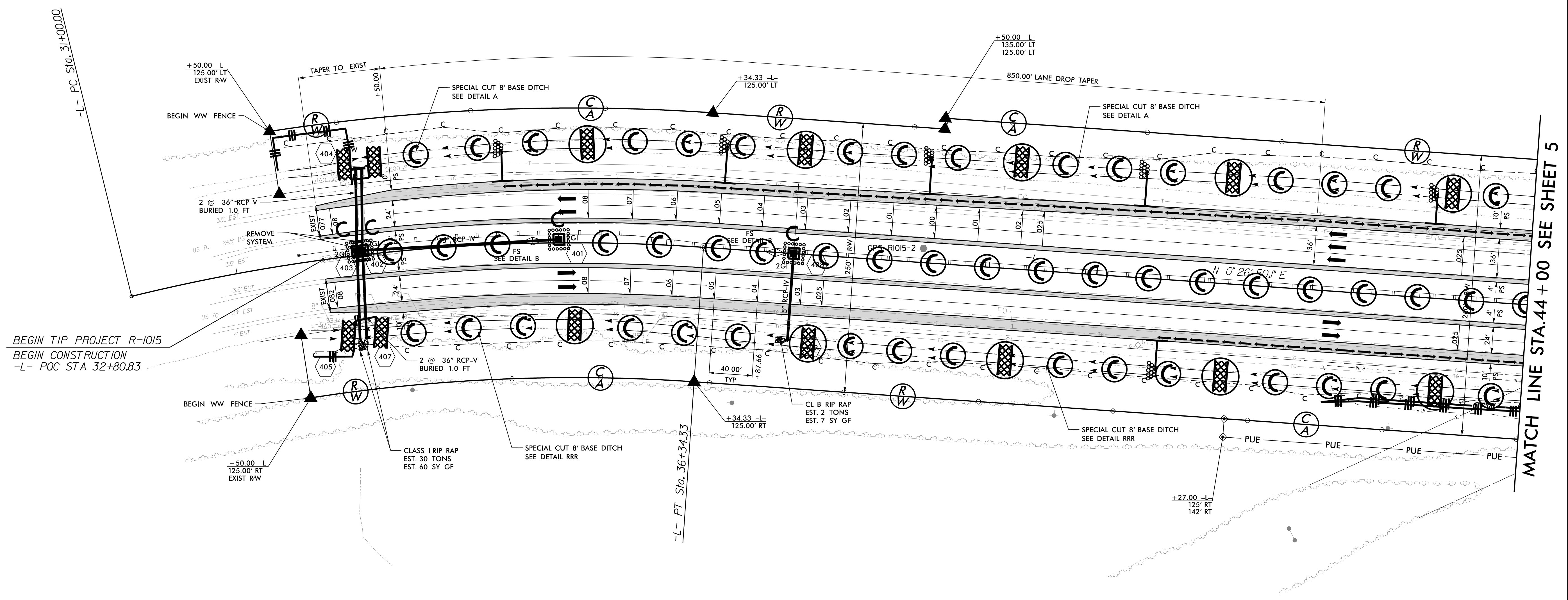
Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

RETAIN TEMPORARY SILT FENCE WHERE SHOWN ON PLANS OUTSIDE OF CUT SLOPES TO PROTECT WETLANDS FROM POSSIBLE DITCH OVERFLOW.

NOTE: DO NOT PLACE COIR FIBER WATTLES IN DITCHES CONTAINING STANDING WATER.

-L-
 PI Sta 33+69.33
 $\Delta = 17' 46'' 26.7'' (RT)$
 $D = 3' 19'' 35.2''$
 $L = 534.33'$
 $T = 269.33'$
 $R = 1,722.44'$
 $SE = 0.08$
 $RO = 320.00'$
 $DS = 60 \text{ mph}$

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 DB 336 - PG 9
 DB 336 - PG 72
 7375.2 AC (DEED)



DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 DB 336 - PG 9
 DB 336 - PG 72
 7375.2 AC (DEED)

1

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8.17.799

U:\7208\1015\Roadside\1015_Roadside\1015_REU\EC-55_PSH_04_F.mxd.dgn

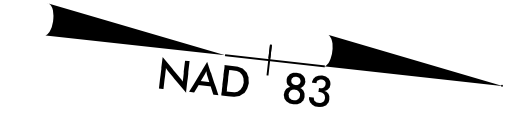
BEGIN TIP PROJECT R-1015
 BEGIN CONSTRUCTION
 -L- POC STA 32+80.83

MATCH LINE STA. 44 + 00 SEE SHEET 5

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

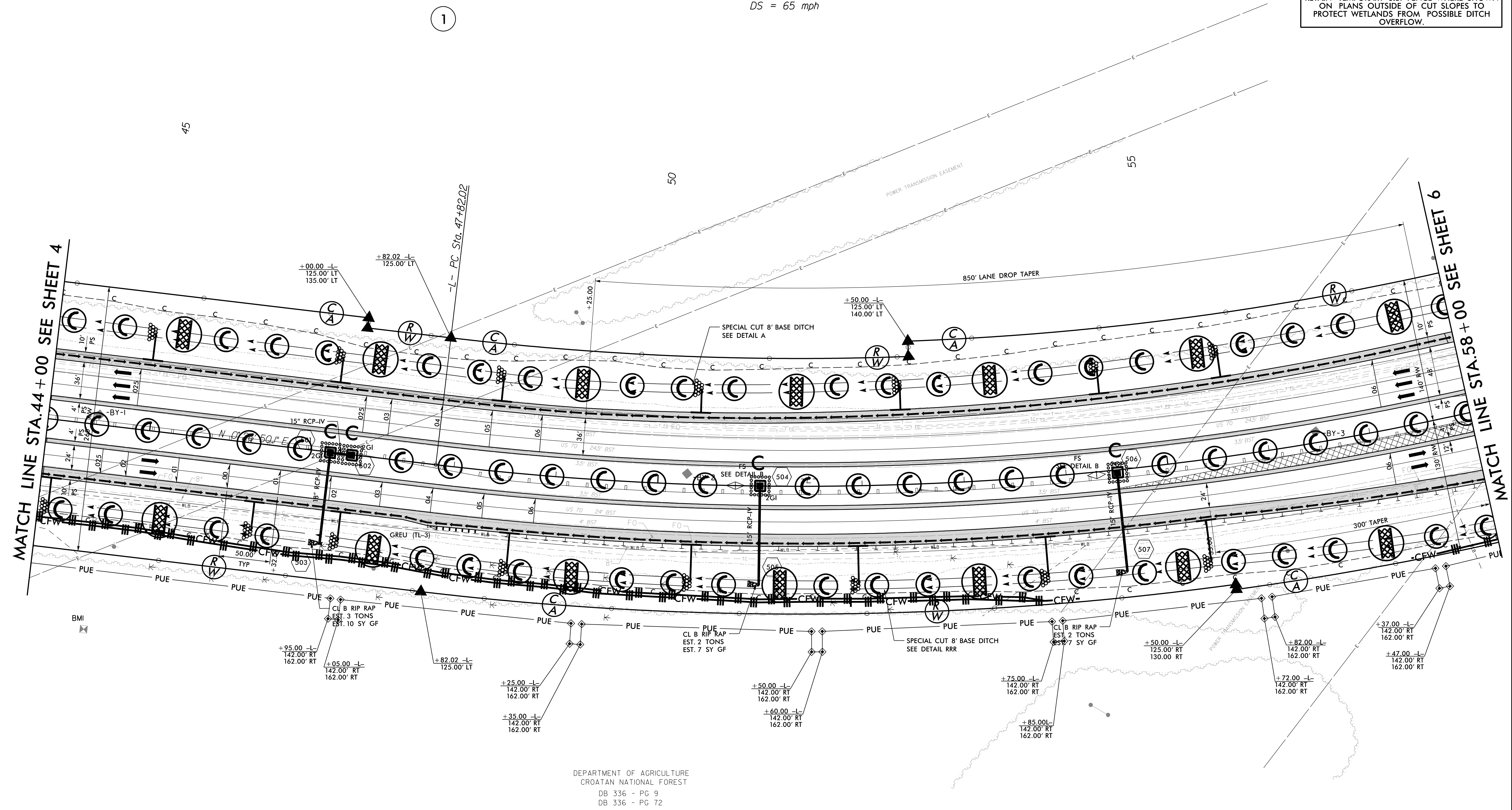
RETAIN TEMPORARY SILT FENCE WHERE SHOWN ON PLANS OUTSIDE OF CUT SLOPES TO PROTECT WETLANDS FROM POSSIBLE DITCH OVERFLOW.

-L-
 PI Sta 58+21.81
 $\Delta = 38^{\circ} 01' 15.2" (LT)$
 $D = 1' 53' 54.5"$
 $L = 2,002.71'$
 $T = 1,039.80'$
 $R = 3,018.00'$
 $SE = 0.06$
 $RO = 300.00'$
 $DS = 65 \text{ mph}$



DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 DB 336 - PG 9
 DB 336 - PG 72
 7375.2 AC (DEED)

1



DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 DB 336 - PG 9
 DB 336 - PG 72
 7375.2 AC (DEED)

1

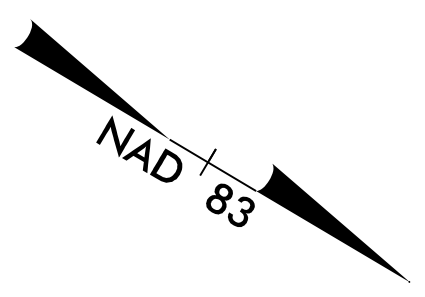
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8.17.99

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Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

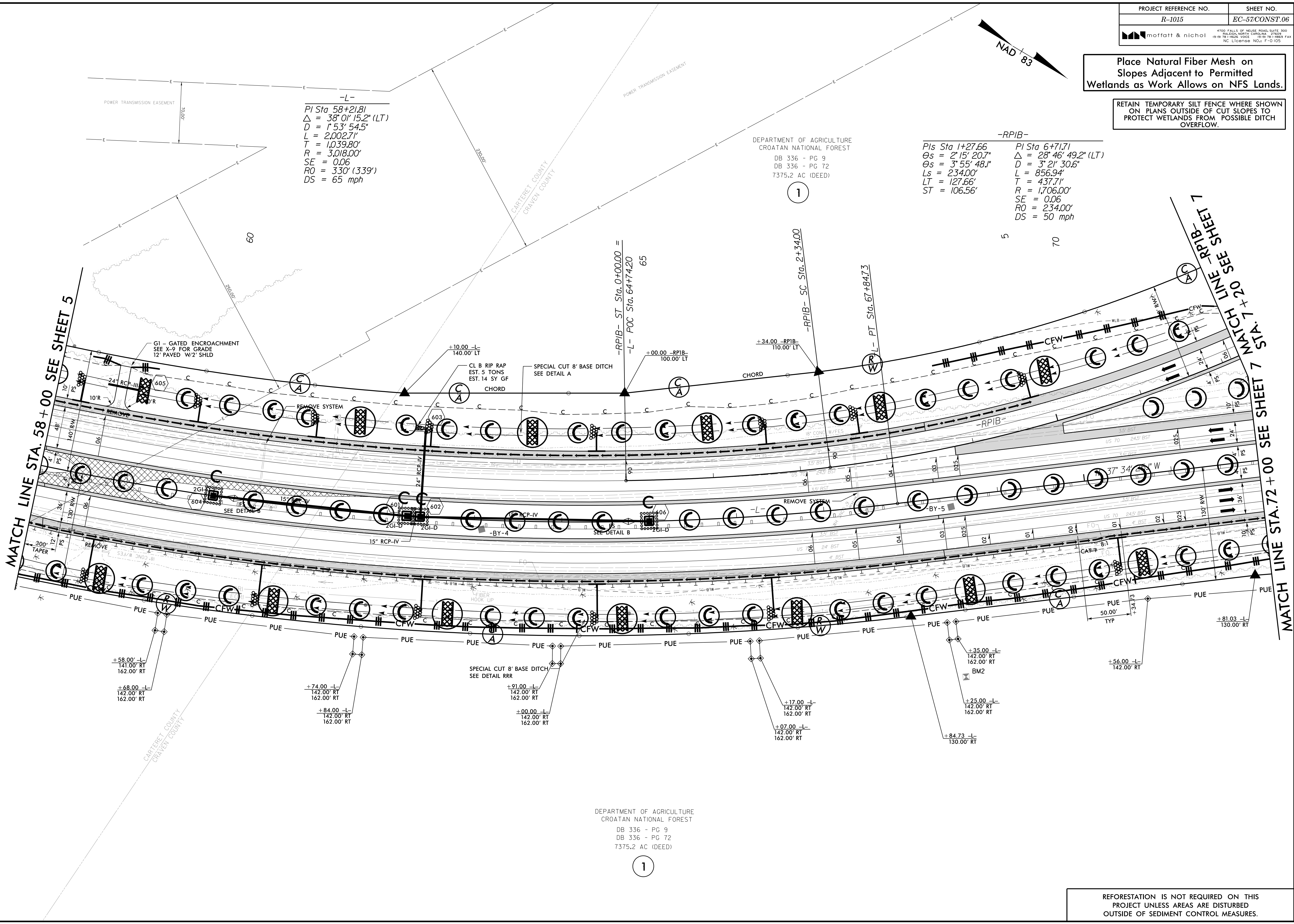
RETAIN TEMPORARY SILT FENCE WHERE SHOWN ON PLANS OUTSIDE OF CUT SLOPES TO PROTECT WETLANDS FROM POSSIBLE DITCH OVERFLOW.



-L-
 PI Sta 58+21.81
 $\Delta = 38^{\circ} 0' 15.2''$ (LT)
 $D = 1^{\circ} 53' 54.5''$
 $L = 2,002.71'$
 $T = 1,039.80'$
 $R = 3,018.00'$
 $SE = 0.06$
 $RO = 330' (339')$
 $DS = 65$ mph

-RPIB-
 PIs Sta 1+27.66
 $\Theta_s = 2^{\circ} 15' 20.7''$
 $\Theta_s = 3^{\circ} 55' 48.1''$
 $L_s = 234.00'$
 $LT = 127.66'$
 $ST = 106.56'$
 PIs Sta 6+71.71
 $\Delta = 28^{\circ} 46' 49.2''$ (LT)
 $D = 3^{\circ} 21' 30.6''$
 $L = 856.94'$
 $T = 437.71'$
 $R = 1,706.00'$
 $SE = 0.06$
 $RO = 234.00'$
 $DS = 50$ mph

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 DB 336 - PG 9
 DB 336 - PG 72
 7375.2 AC (DEED)



MATCH LINE STA. 58+00 SEE SHEET 5

MATCH LINE STA. 72+00 SEE SHEET 7

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 DB 336 - PG 9
 DB 336 - PG 72
 7375.2 AC (DEED)

1

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8.17.17.99
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NO.	DESCRIPTION

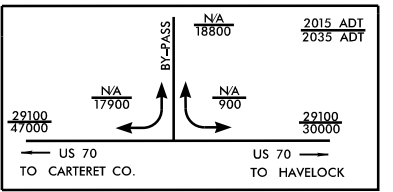
PROJECT REFERENCE NO. 8-1002
SHEET NO. 10-3000SST-02

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

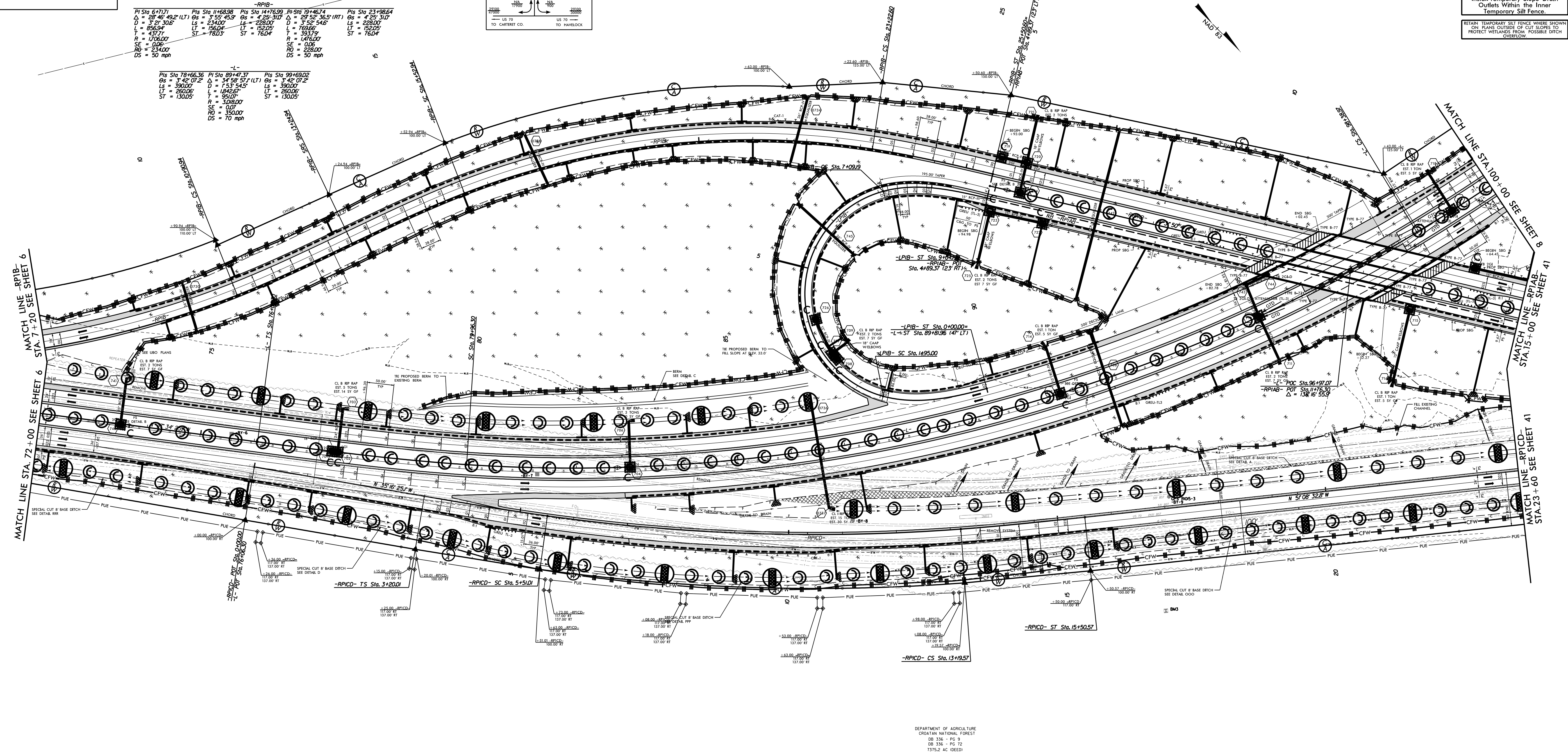
RETAIN TEMPORARY SILT FENCES WHERE SHOWN ON PLANS OUTSIDE OF CUT SLOPES TO PROTECT WETLANDS FROM POSSIBLE DITCH OVERTLOW.

DEPARTMENT OF AGRICULTURE
CROFTON NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG 72
1375.2 AC (DEED)



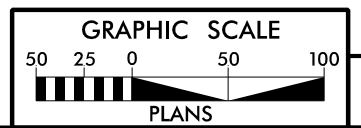
-RP1B-			
PI Sta 6+71.71	PI Sta 11+68.98	PI Sta 14+76.99	PI Sta 19+46.74
Δ = 28° 46' 49.2" (LT)	Δ = 3° 55' 45.9"	Δ = 4° 28' 31.0"	Δ = 29° 52' 36.5" (RT)
D = 379.305'	Ls = 234.00'	Ls = 228.00'	D = 379.305'
L = 856.94'	LT = 156.04'	LT = 152.05'	L = 769.66'
T = 437.91'	ST = 78.03'	ST = 76.04'	T = 393.79'
R = 1766.00'	R = 130.00'	R = 1476.00'	R = 1476.00'
SE = 0.06%	SE = 0.07%	SE = 0.06%	SE = 0.06%
RS = 234.00'	RS = 234.00'	RS = 228.00'	RS = 228.00'
DS = 50 mph	DS = 50 mph	DS = 50 mph	DS = 50 mph

-L-			
PI Sta 78+66.36	PI Sta 89+47.37	PI Sta 99+69.02	
Δ = 3° 42' 07.2"	Δ = 1° 53' 54.5"	Δ = 3° 42' 07.2"	
D = 300.00'	Ls = 154.25'	Ls = 300.00'	
L = 260.00'	LT = 93.00'	LT = 260.00'	
T = 130.00'	ST = 130.00'	ST = 130.00'	
R = 3078.00'	R = 3078.00'	R = 3078.00'	
SE = 0.07%	SE = 0.07%	SE = 0.07%	
RS = 300.00'	RS = 300.00'	RS = 300.00'	
DS = 70 mph	DS = 70 mph	DS = 70 mph	



-LPIB-				-RP1CD-			
PI Sta 1+28.02	PI Sta 9+18.76	PI Sta 7+75.74		PI Sta 4+74.02	PI Sta 9+36.75	PI Sta 13+96.57	
Δ = 1° 48' 34.4"	Δ = 48° 12' 49.5" (RT)	Δ = 28° 21' 25.4"		Δ = 1° 01' 01.2"	Δ = 12° 12' 05.4" (LT)	Δ = 1° 50' 01.2"	
D = 28° 25' 38.8"	D = 29° 05' 02.5"	D = 195.00'		D = 231.00'	D = 173° 15.3"	D = 231.00'	
Ls = 195.00'	Ls = 54.00'	Ls = 137.71'		Ls = 154.00'	Ls = 768.56'	Ls = 154.00'	
LT = 128.02'	LT = 72.376'	LT = 137.71'		LT = 154.00'	LT = 385.74'	LT = 77.01'	
T = 70.92'	T = 97.01'	T = 137.71'		T = 369.900'	T = 154.00'	T = 77.01'	
R = 135.00'	R = 135.00'	R = 135.00'		R = 231.00' (108)	R = 231.00'	R = 231.00'	
SE = 0.07%	SE = 0.07%	SE = 0.07%		SE = 0.01%	SE = 0.01%	SE = 0.01%	
RS = 135.00'	RS = 135.00'	RS = 135.00'		RS = 231.00'	RS = 231.00'	RS = 231.00'	
DS = 25 mph	DS = 25 mph	DS = 25 mph		DS = 30 mph	DS = 30 mph	DS = 30 mph	

DEPARTMENT OF AGRICULTURE
CROFTON NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG 72
1375.2 AC (DEED)



REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEGMENT CONTROL MEASURES.

LOCATION:	
TWP. NO.:	COUNTY:
DESIGNED BY:	
CHECKED BY:	DATE:

DATE PLOTTED: 08/20/2018 10:00 AM

8/17/99

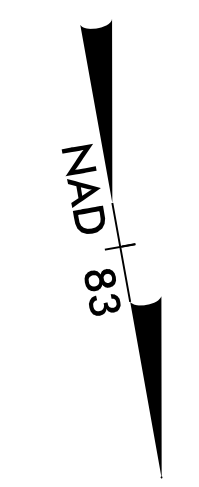
PROJECT REFERENCE NO.	SHEET NO.
R-1015	EC-59CONST.08
<small>4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4668 FAX NC LICENSE NO. F-0105</small>	

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

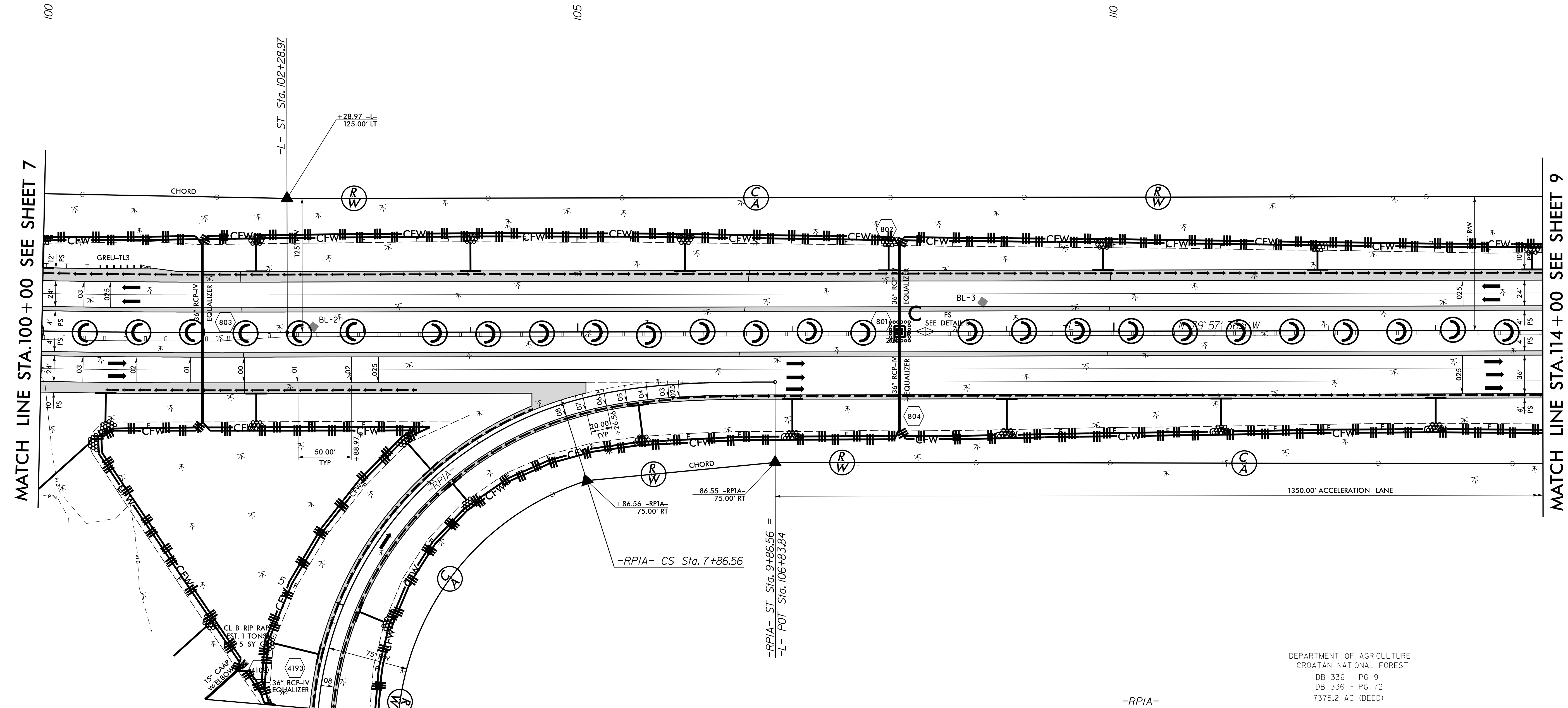
-L-
Pls Sta 99+69.02
 $\theta_s = 3^\circ 42' 07.2''$
Ls = 390.00'
LT = 260.06'
ST = 130.05'

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG 72
7375.2 AC (DEED)



1

BM5



MATCH LINE STA.100+00 SEE SHEET 7

MATCH LINE STA.114+00 SEE SHEET 9

MATCH LINE -RPIA-
STA. 4+00 SEE SHEET 41

-RPIA-
PI Sta 6+08.39 Pls Sta 8+53.82
 $\Delta = 102^\circ 27' 39.0'' (RT)$ $\theta_s = 17^\circ 28' 05.6''$
D = 17' 28' 05.6" Ls = 200.00'
L = 586.56' LT = 133.99'
T = 408.39' ST = 67.26'
R = 328.00'
SE = 0.08
RO = 160.00'
DS = 35 mph

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG 72
7375.2 AC (DEED)

1

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

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 10/15/2008 10:15:00 AM

8/17/99

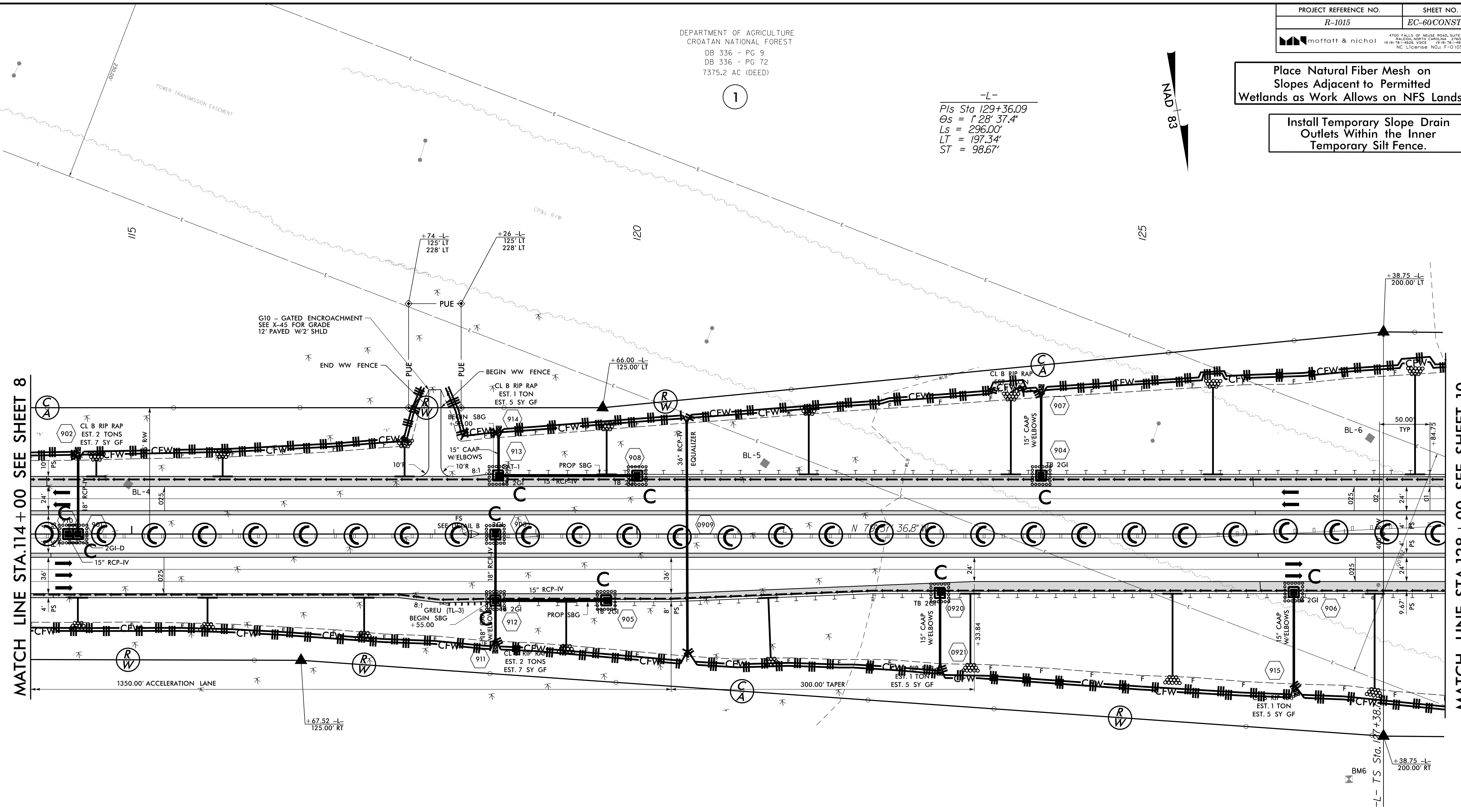
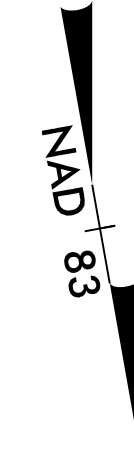
PROJECT REFERENCE NO.	SHEET NO.
R-1015	EC-60CONST.09

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG T2
7375.2 AC (DEED)

-L-
Pls Sta 129+36.09
Os = 1' 28' 37.4"
Ls = 296.00'
LT = 197.34'
ST = 98.67'



MATCH LINE STA.114+00 SEE SHEET 8

MATCH LINE STA.128+00 SEE SHEET 10

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG T2
7375.2 AC (DEED)

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

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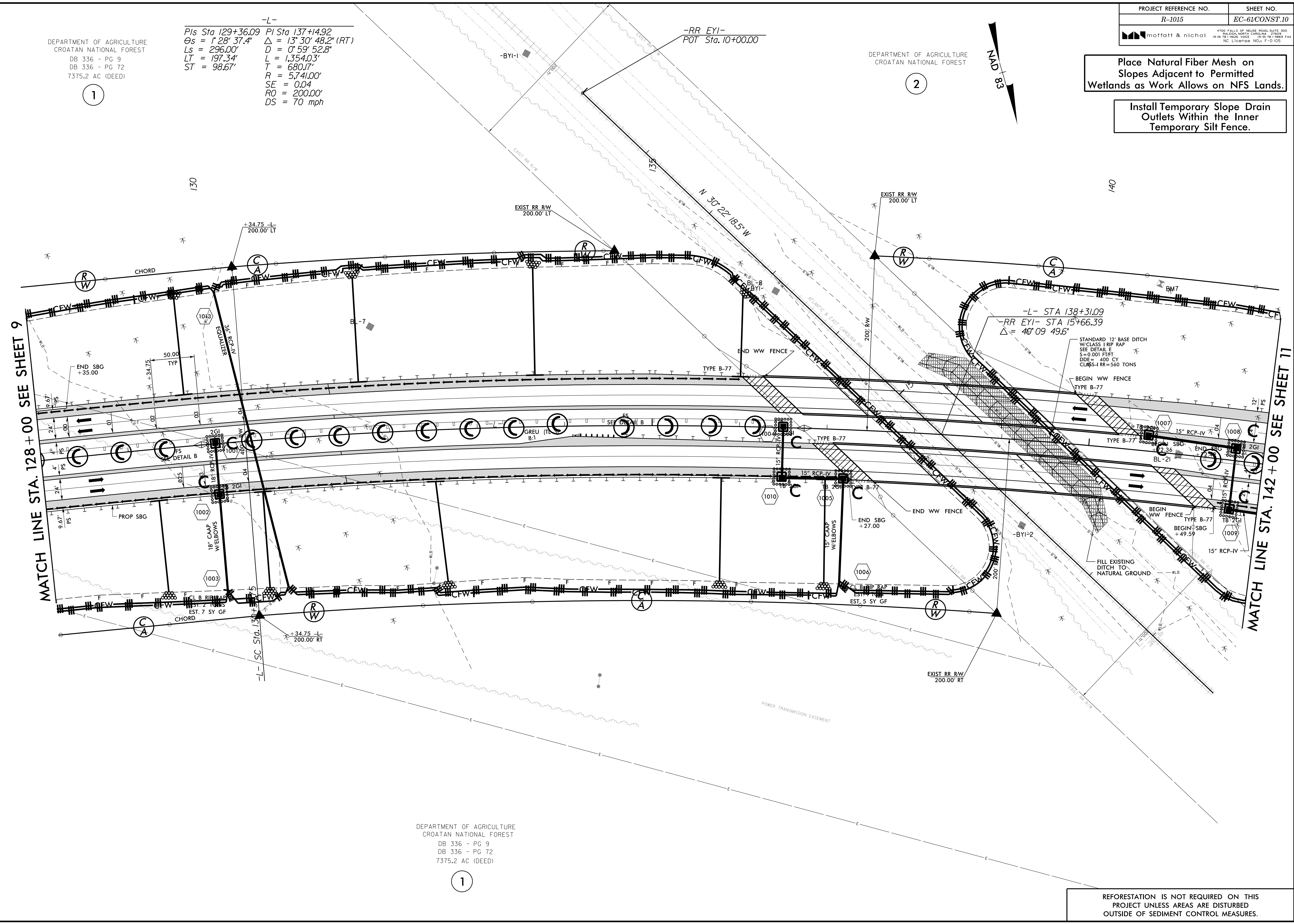
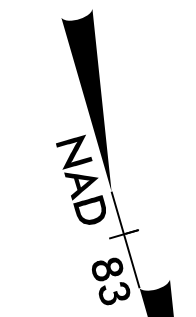
Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG 72
7375.2 AC (DEED)

-L-
 PIs Sta 129+36.09 PI Sta 137+14.92
 $\Theta_s = 1^\circ 28' 37.4"$ $\Delta = 13^\circ 30' 48.2" (RT)$
 $L_s = 296.00'$ $D = 0^\circ 59' 52.8"$
 $LT = 197.34'$ $L = 1,354.03'$
 $ST = 98.67'$ $T = 680.17'$
 $R = 5,741.00'$
 $SE = 0.04$
 $RO = 200.00'$
 $DS = 70 \text{ mph}$

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST



MATCH LINE STA. 128 + 00 SEE SHEET 9

MATCH LINE STA. 142 + 00 SEE SHEET 11

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
DB 336 - PG 9
DB 336 - PG 72
7375.2 AC (DEED)

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

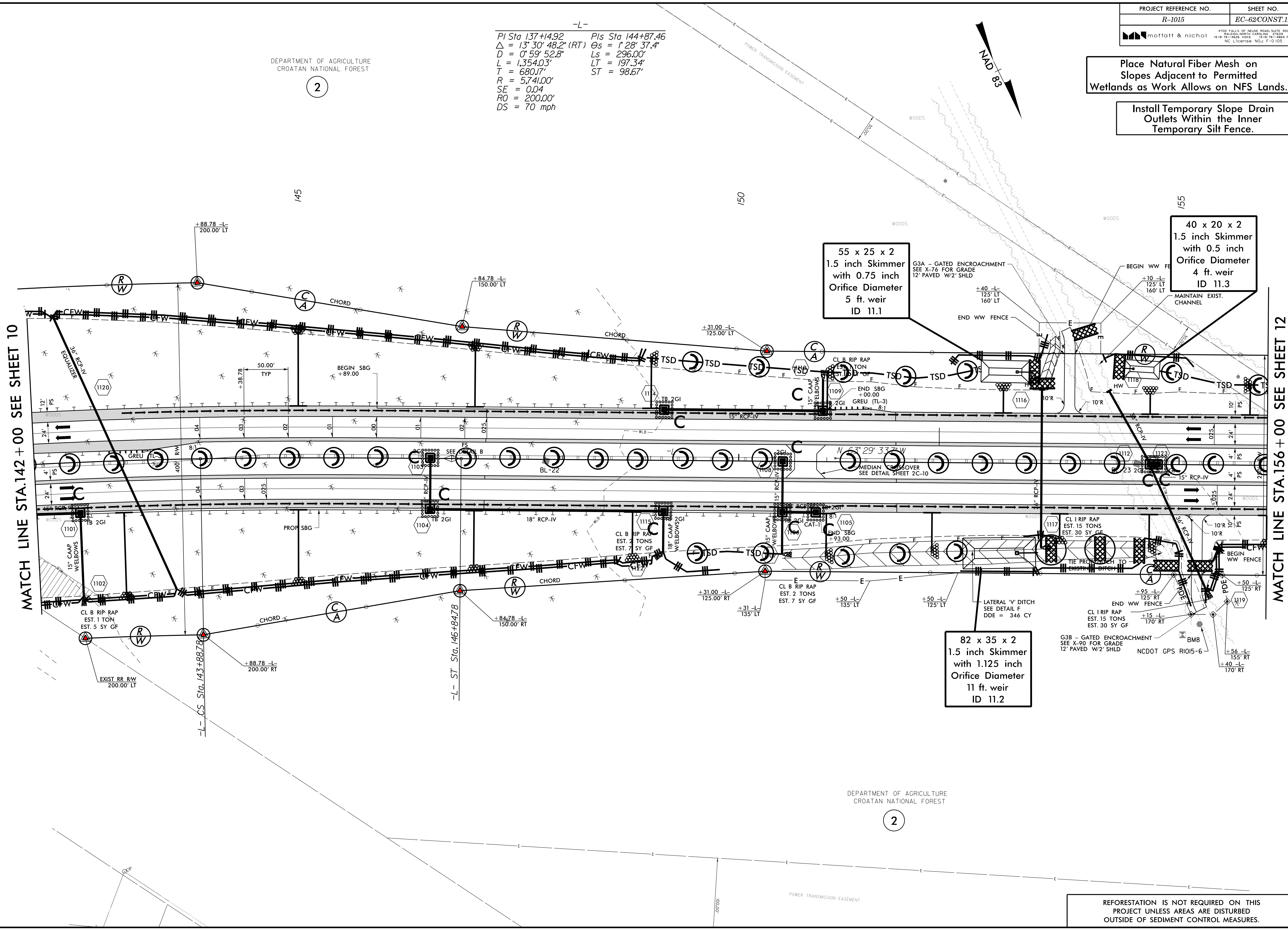
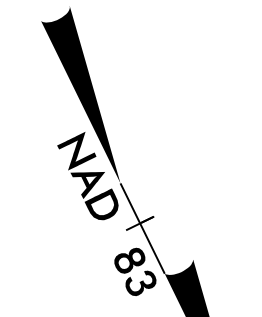
8/17/99
I:\7208\1015\Roadside\1015_Roadside\1015_REU\EC-61_PSH_10_F.ino.dgn

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

-L-
 PI Sta 137+14.92 PIs Sta 144+87.46
 $\Delta = 13^{\circ} 30' 48.2''$ (RT) $\Theta_s = 1^{\circ} 28' 37.4''$
 $D = 0^{\circ} 59' 52.8''$ $L_s = 296.00'$
 $L = 1,354.03'$ $LT = 197.34'$
 $T = 680.17'$ $ST = 98.67'$
 $R = 5,741.00'$
 $SE = 0.04$
 $RO = 200.00'$
 $DS = 70$ mph

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST



MATCH LINE STA.142+00 SEE SHEET 10

MATCH LINE STA.156+00 SEE SHEET 12

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST

2

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

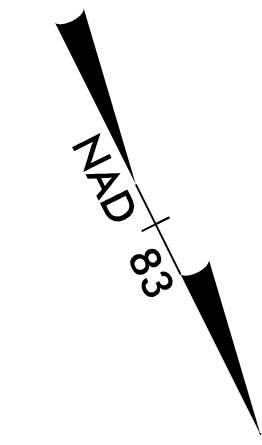
8.17.99
 3/5/2019
 D:\1619729-02\CA000\1015\Roadside\VR-1015_REU\EC-62_PSH.11_F.ino.dgn
 10/15/2019 10:15:00 AM

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

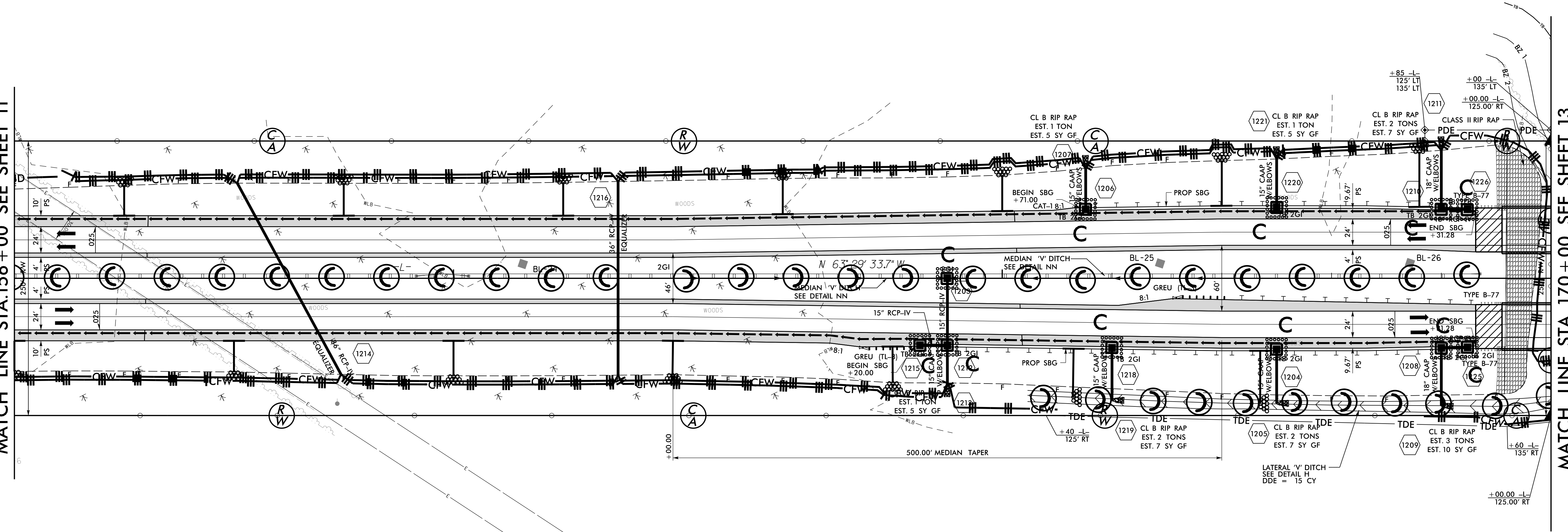


160

165

MATCH LINE STA. 156 + 00 SEE SHEET 11

MATCH LINE STA. 170 + 00 SEE SHEET 13



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

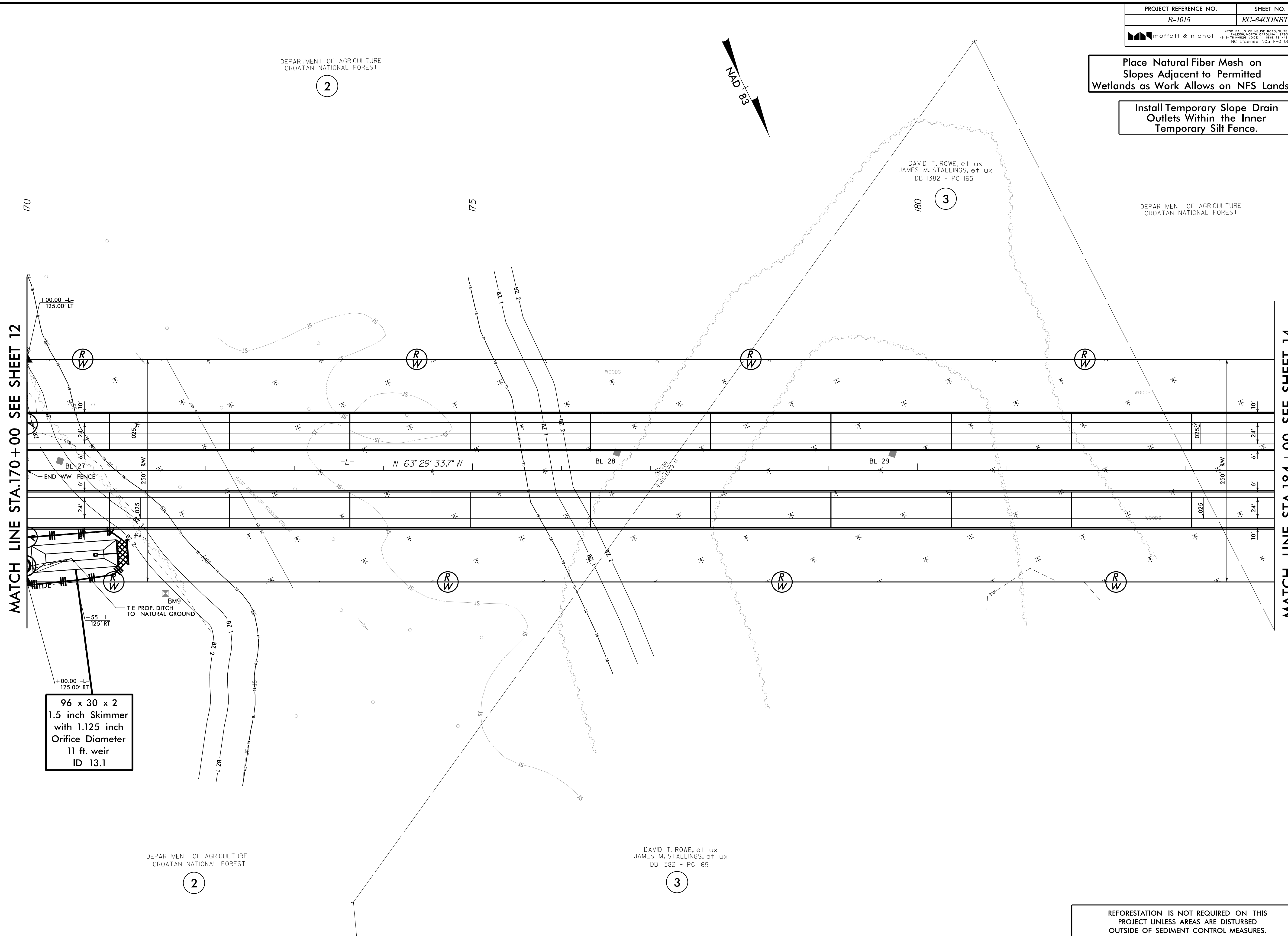
8/17/99

U:\7\20\8\10\729-02\CA000\1015\Roadside\NR-1015_REU\EC-63_PSH.12_F.mol.dgn

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

8/17/99
 I:\7208\15\FAV\729-02\CA000\1015\Roadside\VR-1015_REU\EC-64_PSH.13.F.mol.dgn



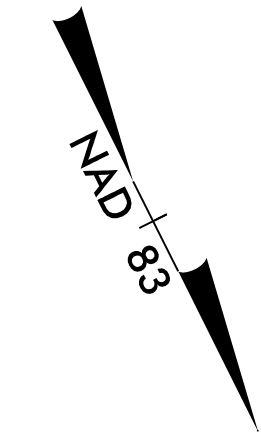
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2



185

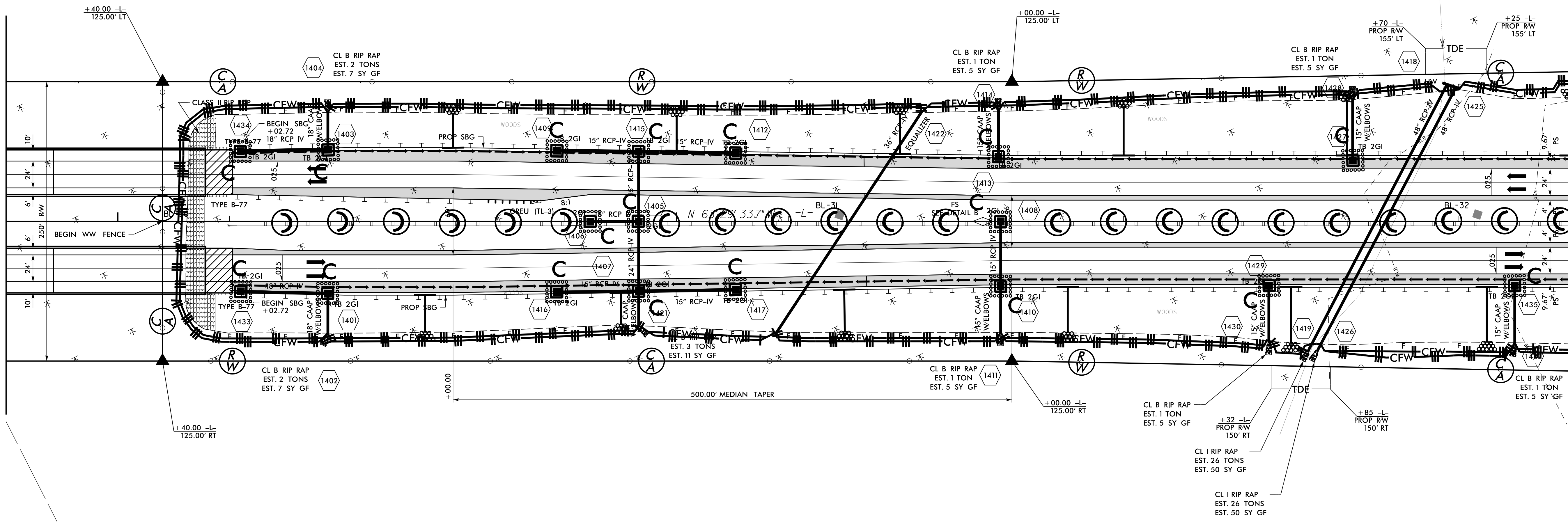
190

195

BM10

MATCH LINE STA.184+00 SEE SHEET 13

MATCH LINE STA.198+00 SEE SHEET 15



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

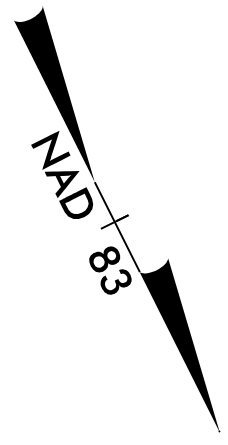
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99

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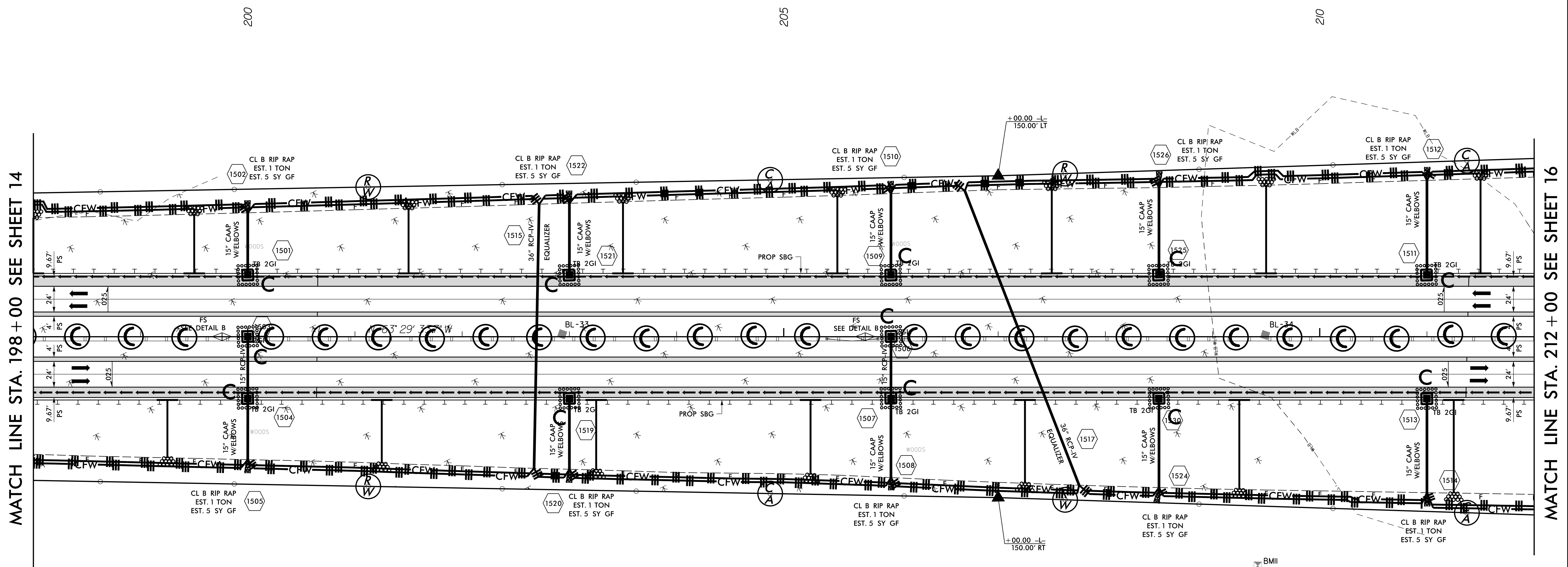
DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2



Place Natural Fiber Mesh on
Slopes Adjacent to Permitted
Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain
Outlets Within the Inner
Temporary Silt Fence.



MATCH LINE STA. 198 + 00 SEE SHEET 14

MATCH LINE STA. 212 + 00 SEE SHEET 16

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

REFORESTATION IS NOT REQUIRED ON THIS
PROJECT UNLESS AREAS ARE DISTURBED
OUTSIDE OF SEDIMENT CONTROL MEASURES.

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

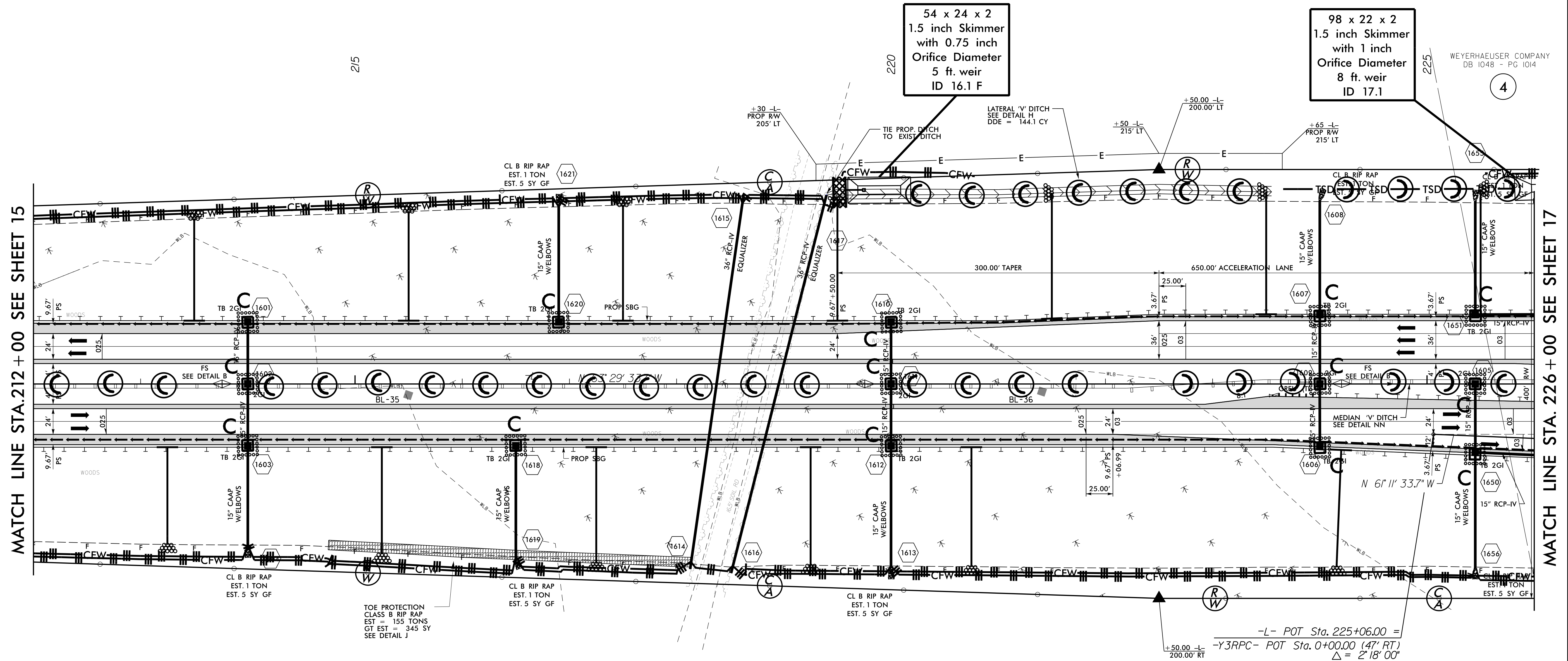
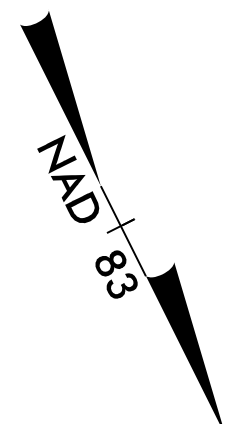
98 x 22 x 2
1.5 inch Skimmer
with 1 inch
Orifice Diameter
8 ft. weir
ID 17.1

54 x 24 x 2
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
5 ft. weir
ID 16.1 F

WEYERHAEUSER COMPANY
DB 1048 - PG 1014

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2



MATCH LINE STA. 212 + 00 SEE SHEET 15

MATCH LINE STA. 226 + 00 SEE SHEET 17

-L- POT Sta. 225+06.00 =
-Y3RPC- POT Sta. 0+00.00 (47' RT)
Δ = 2' 18" 00"

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99

\\7208\15729-02\CA000\1015\Roadside\1015_REU\EC-67_PSH.16_F.mol.dgn

REVISIONS

1/13/2008	-	REVISED TCE STATION +Y3- 59+00 TO 61+00 LT
PARCEL 4	-	ADDED TCE STATION -Y3RPP- 13+50 TO 16+67 LT
PARCEL 4	-	CHANGED TCE TO PVE AND REVISED AREA STATION
PARCEL 4	-	ADDED TCE STATION -Y3RPP- 17+60 TO 20+23 LT
PARCEL 4	-	ADDED TCE STATION -Y3RPA- 15+48 TO 15+48 RT
PARCEL 4	-	ADDED TCE STATION -Y3RPA- 15+48 RT TO +Y3- 45+00 LT
PARCEL 4	-	ADDED TCE STATION -Y3RPP- 18+62 LT TO -Y3- 45+08 RT
6/14/2008	-	REVISED PVE AND TCE STATION -Y3- 45+05 RT
	-	REVISED PVE AT STATION +Y3- 45+00 TO 45+33 RT

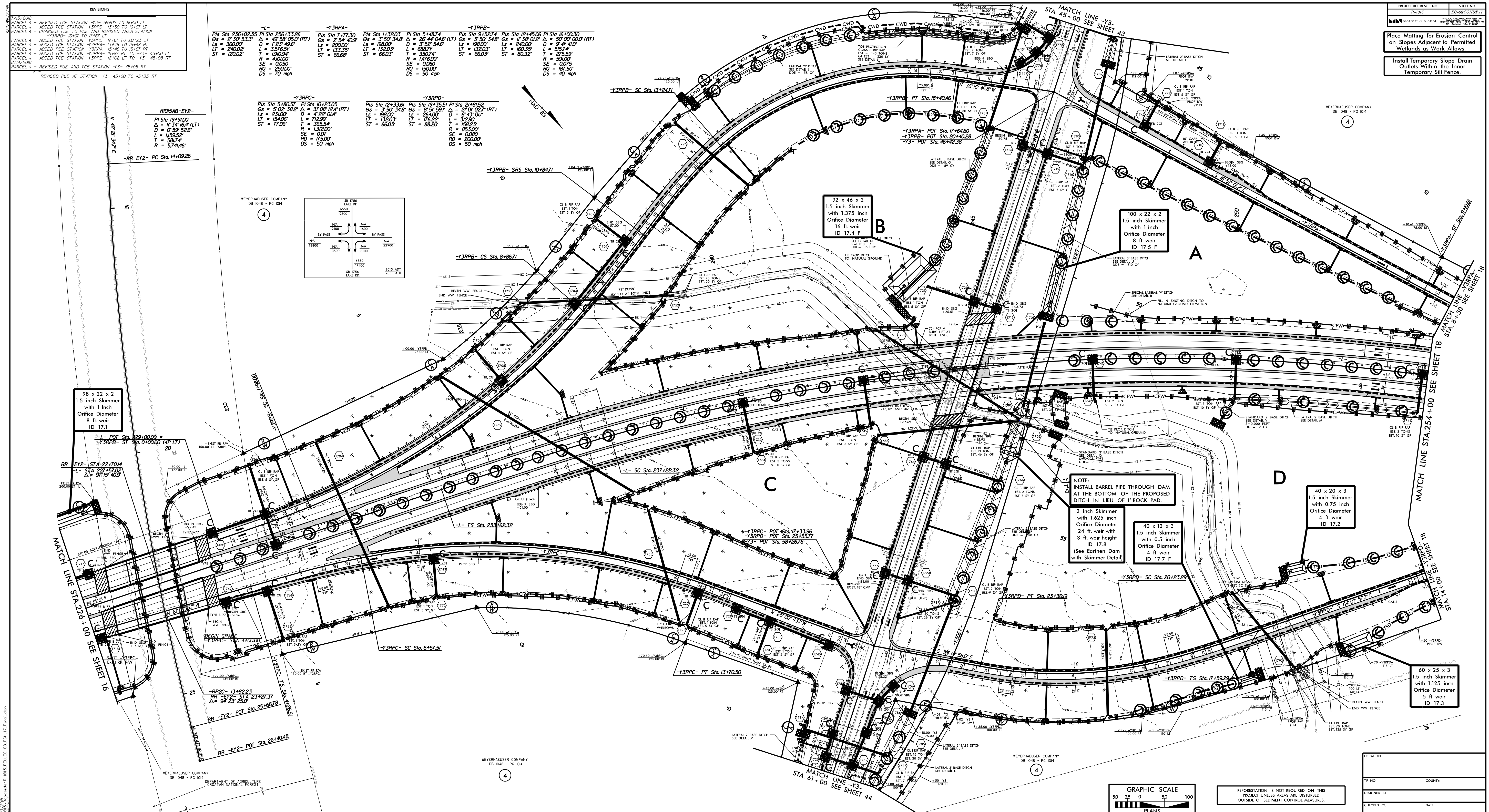
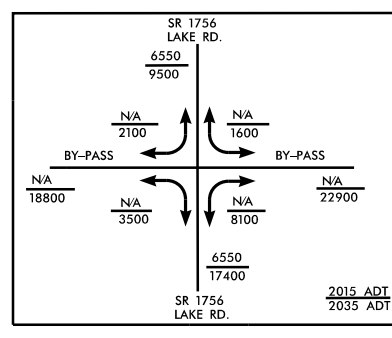
-Y3RPA-	-Y3RPP-
Sta 236+02.35	Sta 1132.03
Sta 256+33.26	Sta 5148.74
Sta 7+77.30	Sta 9152.74
Sta 7+77.30	Sta 1245.06
Sta 7+77.30	Sta 16100.30
Sta 7+77.30	Sta 16100.30

RIO5AB-EY2-

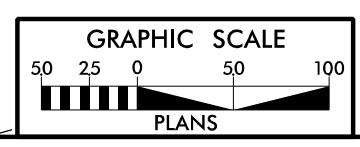
PI Sta 19+91.00
 $\Delta = 11' 34" 16.4" (LT)$
 $D = 0' 59" 52.5"$
 $L = 1' 05.52"$
 $T = 50.74"$
 $R = 51.746"$

-RR EY2- PC Sta. 14+02.26

-Y3RPP-	-Y3RPP-
Sta 5180.57	Sta 12113.61
Sta 10213.05	Sta 9143.51
Sta 10213.05	Sta 21491.52
Sta 10213.05	Sta 21491.52



NOTE:
 INSTALL BARREL PIPE THROUGH DAM AT THE BOTTOM OF THE PROPOSED DITCH IN LIEU OF T-RUCK PAD.



REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

PROJECT REFERENCE NO. R-1003 SHEET NO. 22-680CONSTR.17

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

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

LOCATION:

TP NO. COUNTY:

DESIGNED BY: DATE:

CHECKED BY: DATE:

CIVIL ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 NO. 10000
 STATE OF CALIFORNIA
 MEYERHOLZER COMPANY
 DB 1048 - PG 104

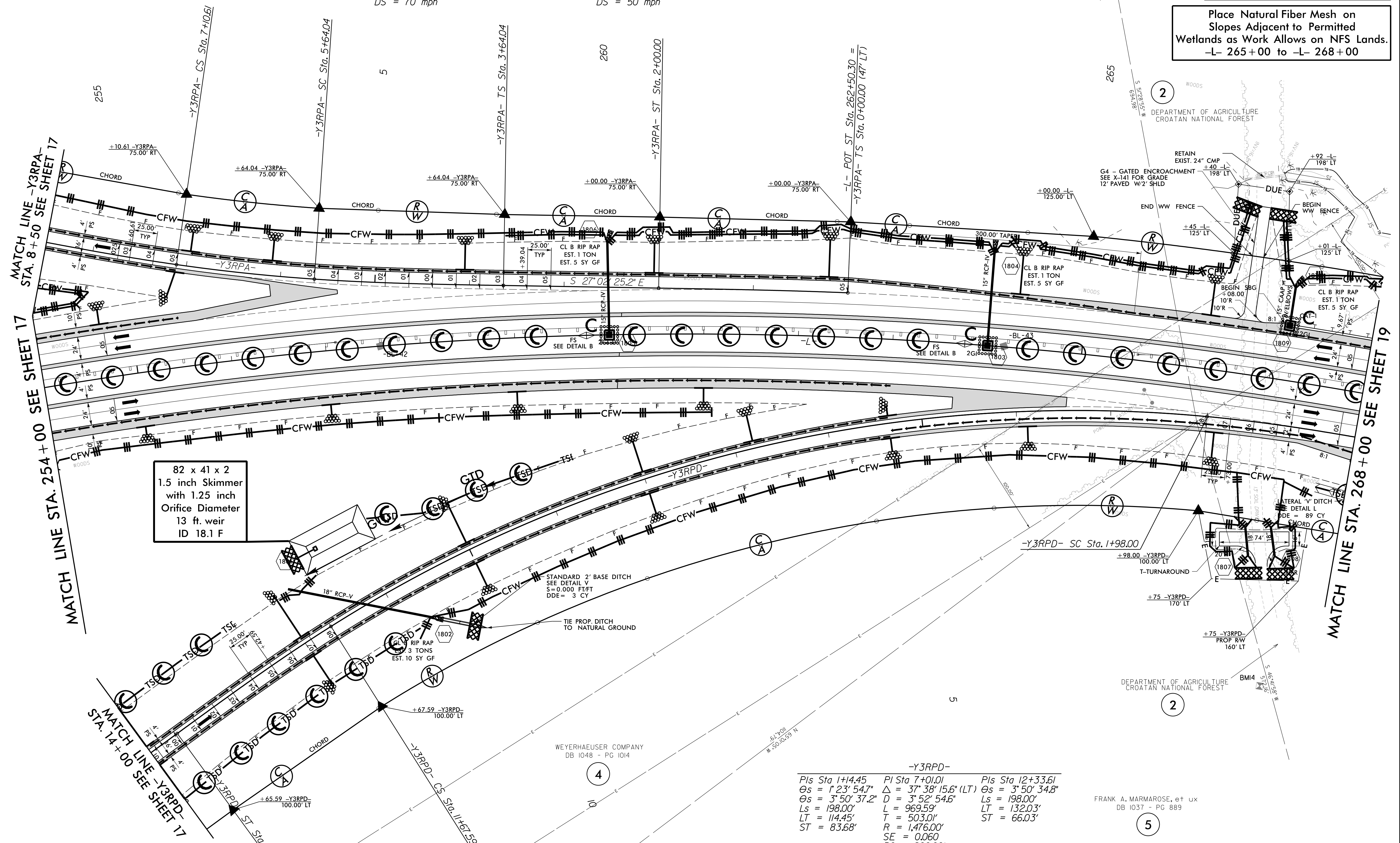
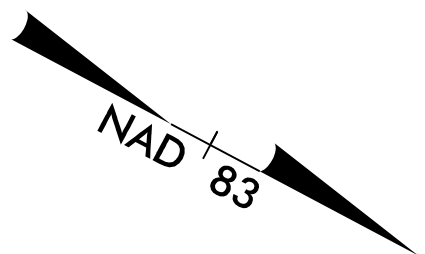
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows. -L- 254+00 to -L-265+00

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands. -L- 265+00 to -L- 268+00

-L-
 PIs Sta 236+02.35 PI Sta 256+33.26
 $\Theta_s = 2^\circ 30' 53.3''$ $\Delta = 49^\circ 58' 05.0''$ (RT)
 $L_s = 360.00'$ $D = 1^\circ 23' 49.6''$
 $LT = 240.02'$ $L = 3,576.51'$
 $ST = 120.02'$ $T = 1,910.94'$
 $R = 4,101.00'$
 $SE = 0.050$
 $RO = 250.00'$
 $DS = 70$ mph

-Y3RPA-
 PIs Sta 0+66.67 PI Sta 6+37.36 PI Sta 4+97.39
 $\Theta_s = 1^\circ 22' 52.6''$ $\Delta = 4^\circ 16' 02.1''$ (RT) $\Theta_s = 2^\circ 54' 40.9''$
 $L_s = 200.00'$ $D = 2^\circ 54' 40.9''$ $L_s = 200.00'$
 $LT = 133.34'$ $L = 146.57'$ $LT = 133.35'$
 $ST = 66.67'$ $T = 73.32'$ $ST = 66.68'$
 $R = 1,968.00'$
 $SE = 0.060$
 $RO = 125.00'$
 $DS = 50$ mph

WEYERHAEUSER COMPANY
 DB 1048 - PG 1014



82 x 41 x 2
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 13 ft. weir
 ID 18.1 F

WEYERHAEUSER COMPANY
 DB 1048 - PG 1014

-Y3RPD-
 PIs Sta 1+14.45 PI Sta 7+01.01 PI Sta 12+33.61
 $\Theta_s = 1^\circ 23' 54.7''$ $\Delta = 37^\circ 38' 15.6''$ (LT) $\Theta_s = 3^\circ 50' 34.8''$
 $L_s = 198.00'$ $D = 3^\circ 52' 54.6''$ $L_s = 198.00'$
 $LT = 114.45'$ $T = 503.01'$ $LT = 132.03'$
 $ST = 83.68'$ $R = 1,476.00'$ $ST = 66.03'$
 $SE = 0.060$
 $RO = 200.00'$
 $DS = 50$ mph

FRANK A. MARMAROSE, et ux
 DB 1037 - PG 889

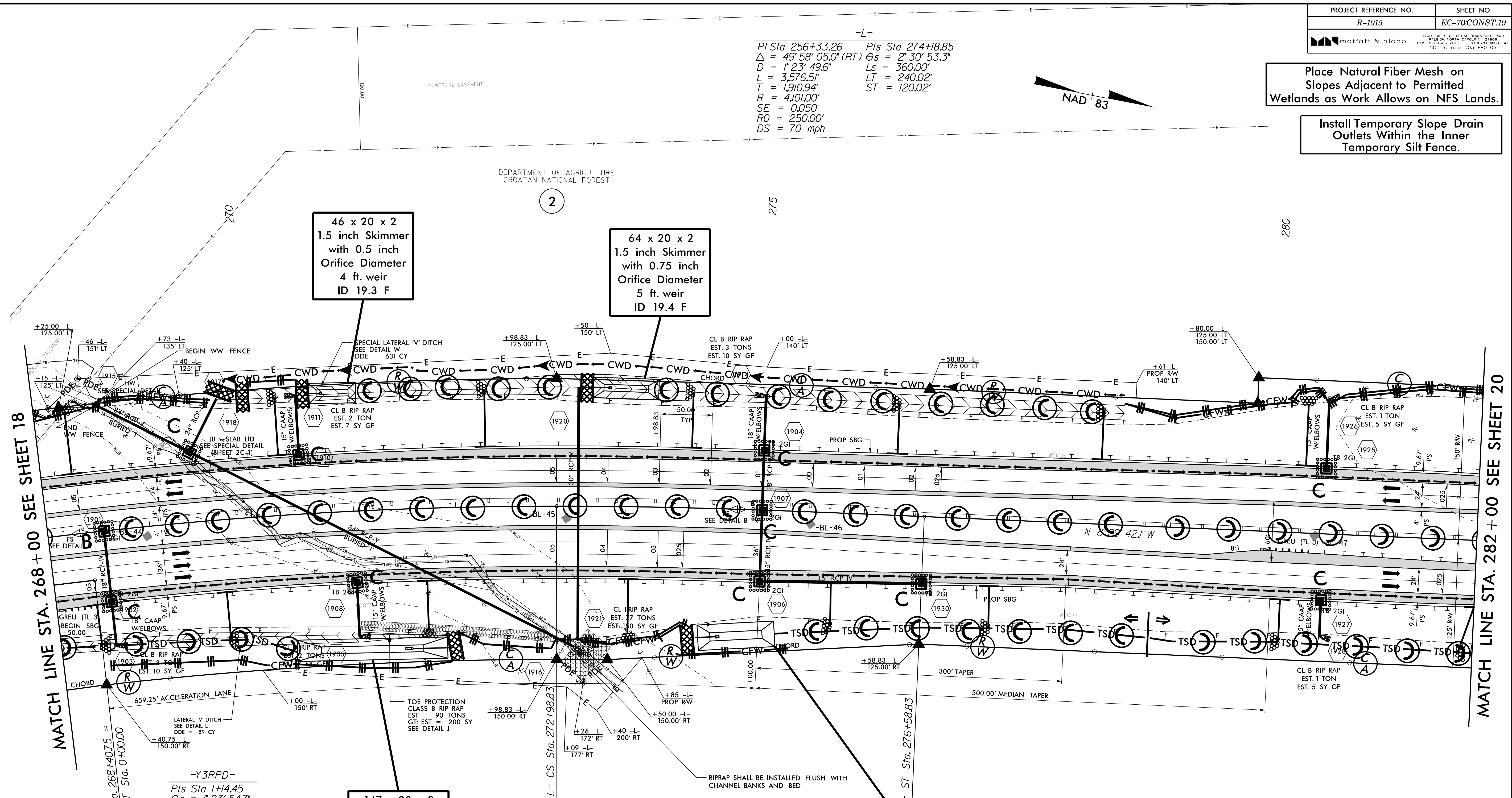
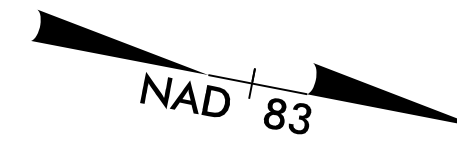
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8.17.799
 I:\7\2015\29-02\CA000\1015\Roadside\1015_REU_EC-69_PSH.18_F.mxd.dgn
 1/7/2015 9:29:02 AM

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

-L-
 PI Sta 256+33.26 Pls Sta 274+18.85
 $\Delta = 49^\circ 58' 05.0'' (RT)$ $\Theta_s = 2^\circ 30' 53.3''$
 $D = 1^\circ 23' 49.6''$ $L_s = 360.00'$
 $L = 3,576.51'$ $LT = 240.02'$
 $T = 1,910.94'$ $ST = 120.02'$
 $R = 4,101.00'$
 $SE = 0.050$
 $RO = 250.00'$
 $DS = 70 \text{ mph}$

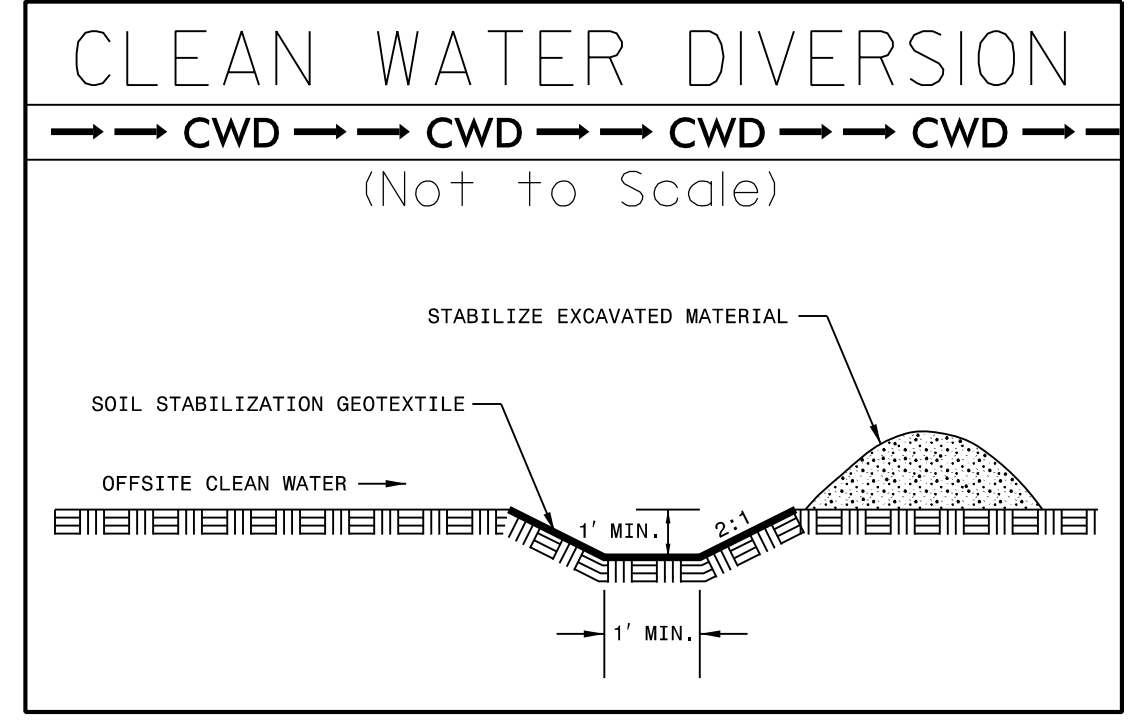


11/7/2018 10:47:29-02\CA000\1015\Roadside\VR-1015_REU_EC-70_PSH_19_F.mxd
 8/17/99

-Y3RPD-
 Pls Sta 1+14.45
 $\Theta_s = 1^\circ 23' 54.7''$
 $L_s = 3^\circ 50' 37.2''$
 $L = 198.00'$
 $LT = 114.45'$
 $ST = 83.68'$

147 x 20 x 2
 1.5 inch Skimmer
 with 1.125 inch
 Orifice Diameter
 11 ft. weir
 ID 19.2 F

75 x 25 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 6 ft. weir
 ID 19.1



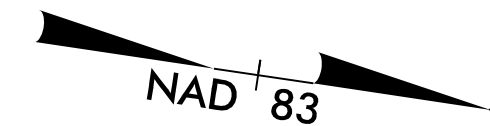
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

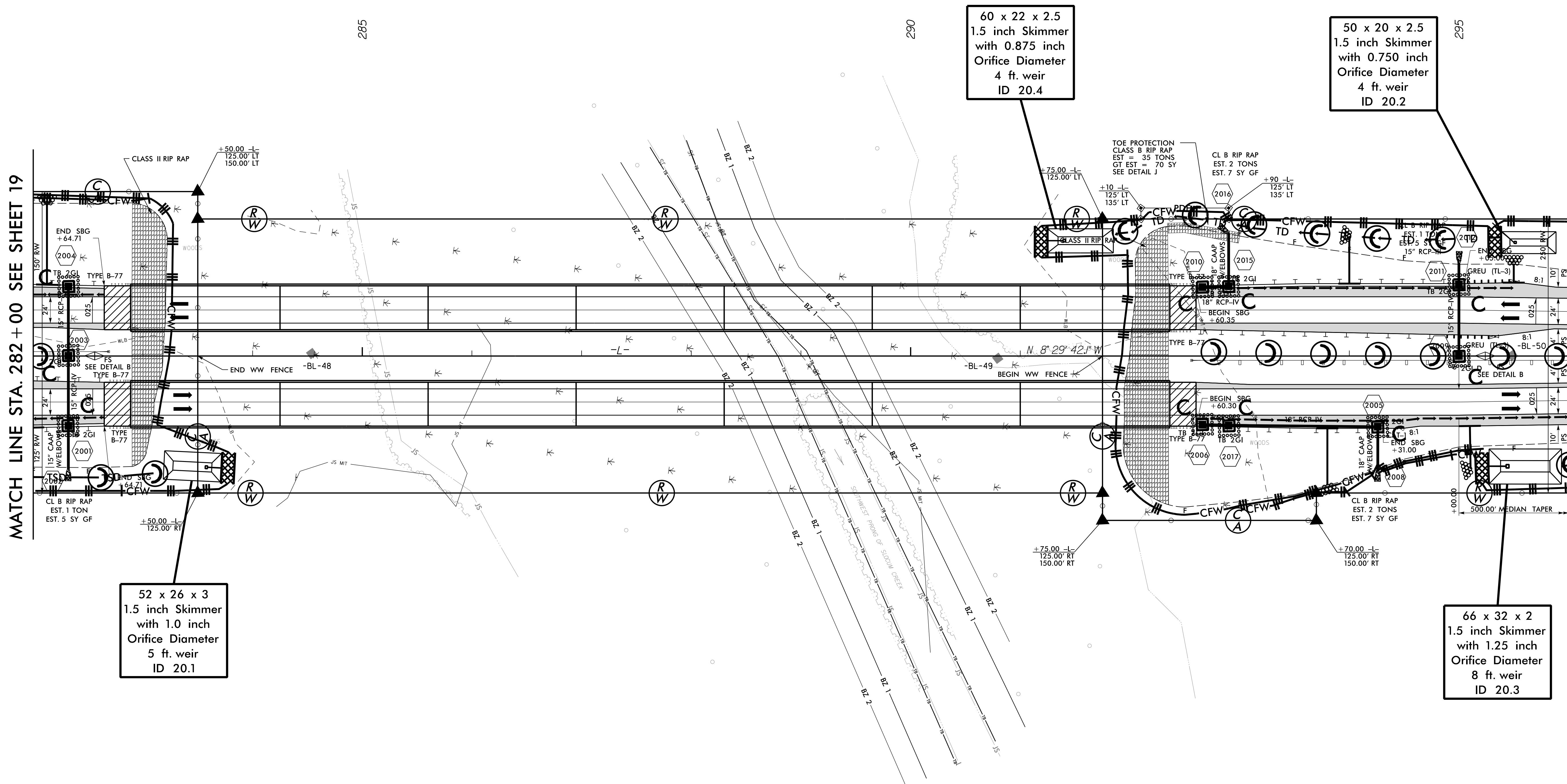
DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2



MATCH LINE STA. 282+00 SEE SHEET 19

MATCH LINE STA. 296+00 SEE SHEET 21



60 x 22 x 2.5
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 20.4

50 x 20 x 2.5
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
4 ft. weir
ID 20.2

52 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 20.1

66 x 32 x 2
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 20.3

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

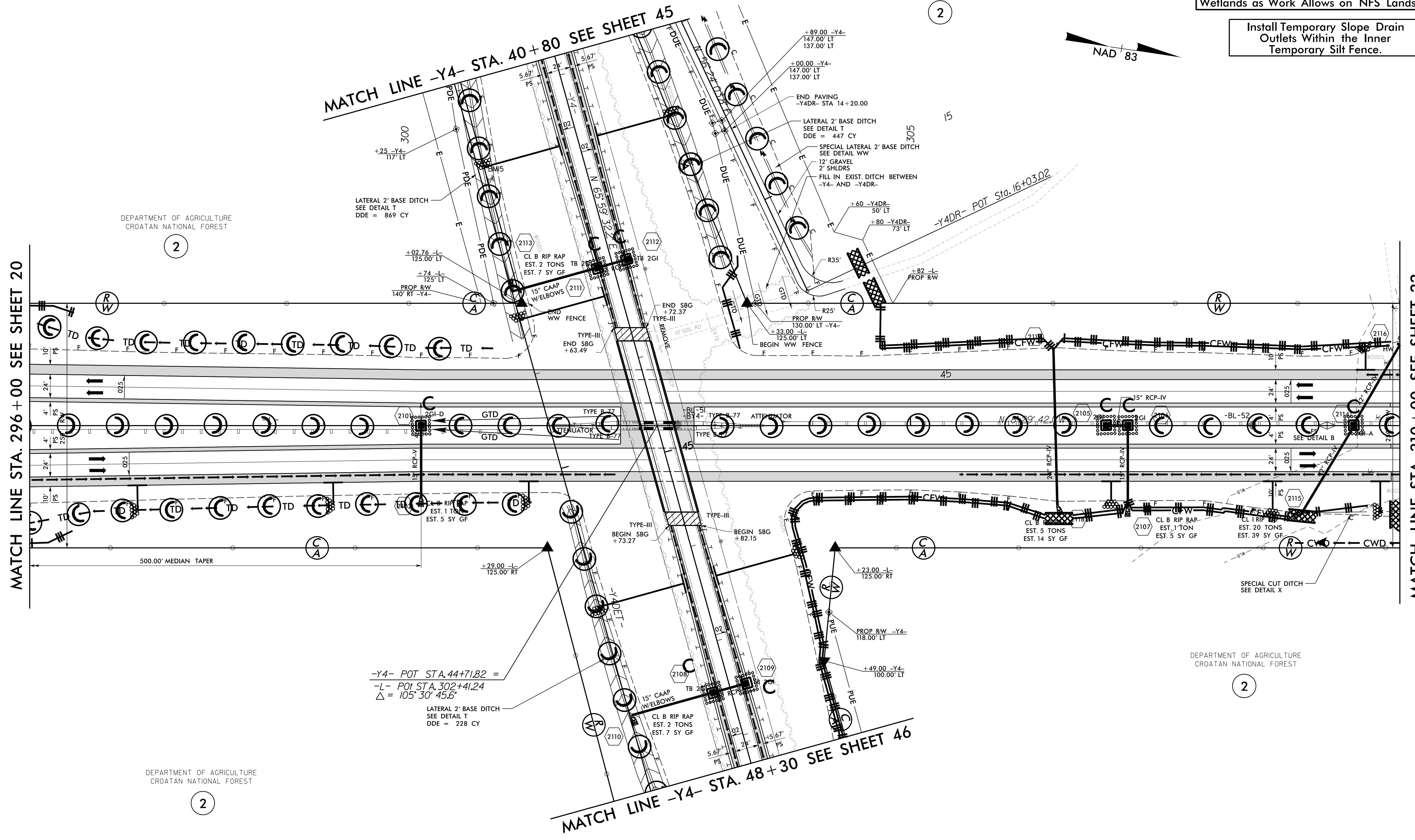
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REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

11/7/2018 10:57:29-02\CA000\1015\Roadside\1015_REU\EC-71_PSH_20.F.mxd
 8/17/99

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.



REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

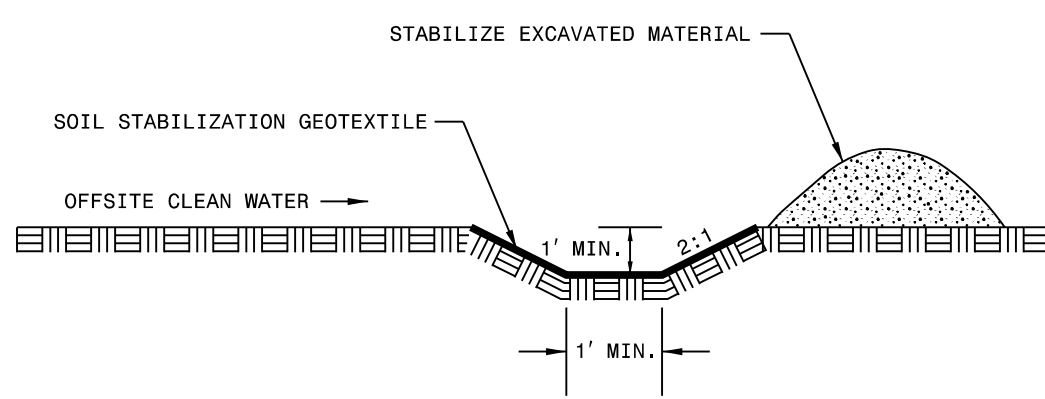
8/17/99
 I:\7208\1076\9729-02\CA000\1015\Roadside\1015_REU\EC-72_PSH_21.dgn
 10/17/2008

8/17/99

CLEAN WATER DIVERSION

→ CWD → CWD → CWD → CWD →

(Not to Scale)



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

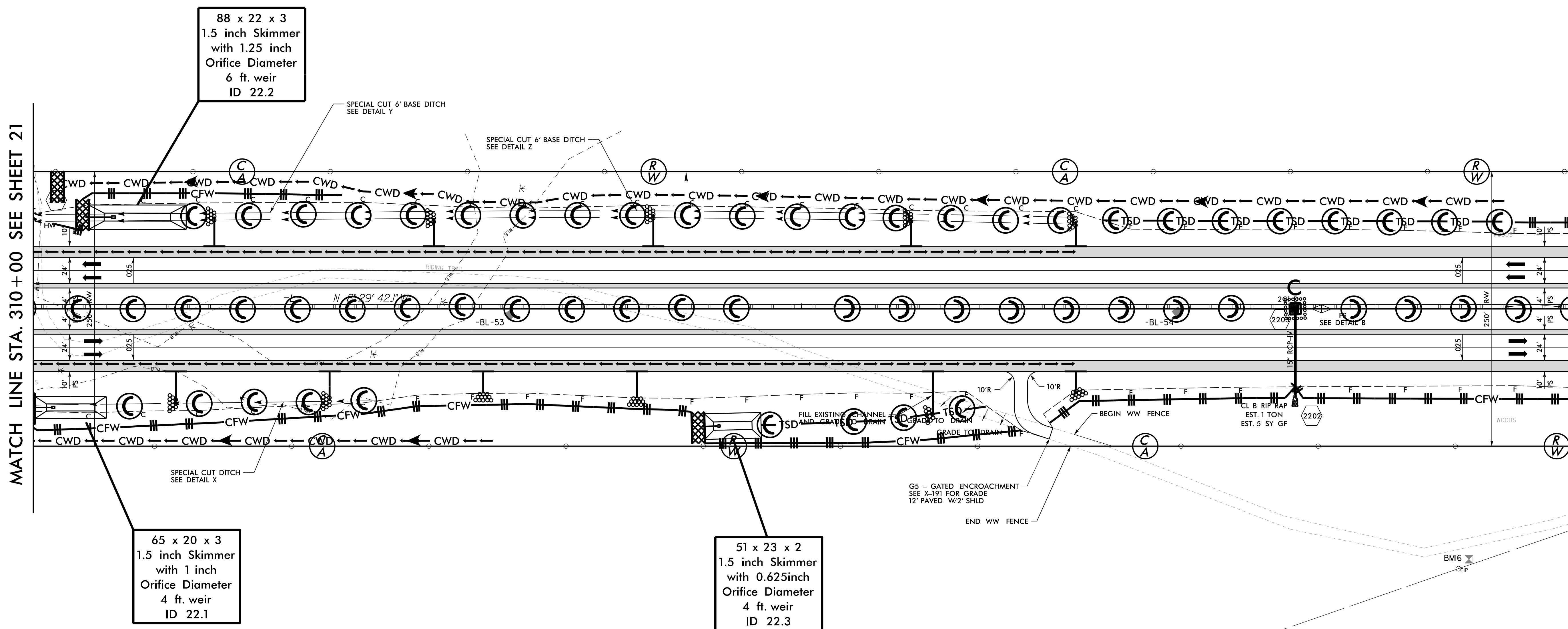


PROJECT REFERENCE NO.	SHEET NO.
R-1015	EC-73CONST.22

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

MATCH LINE STA. 310 + 00 SEE SHEET 21

MATCH LINE STA. 324 + 00 SEE SHEET 23



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

EDWARD J. CIESZKO (ESTATE)
DB 1704 - PG 242
DB 1605 - PG 238

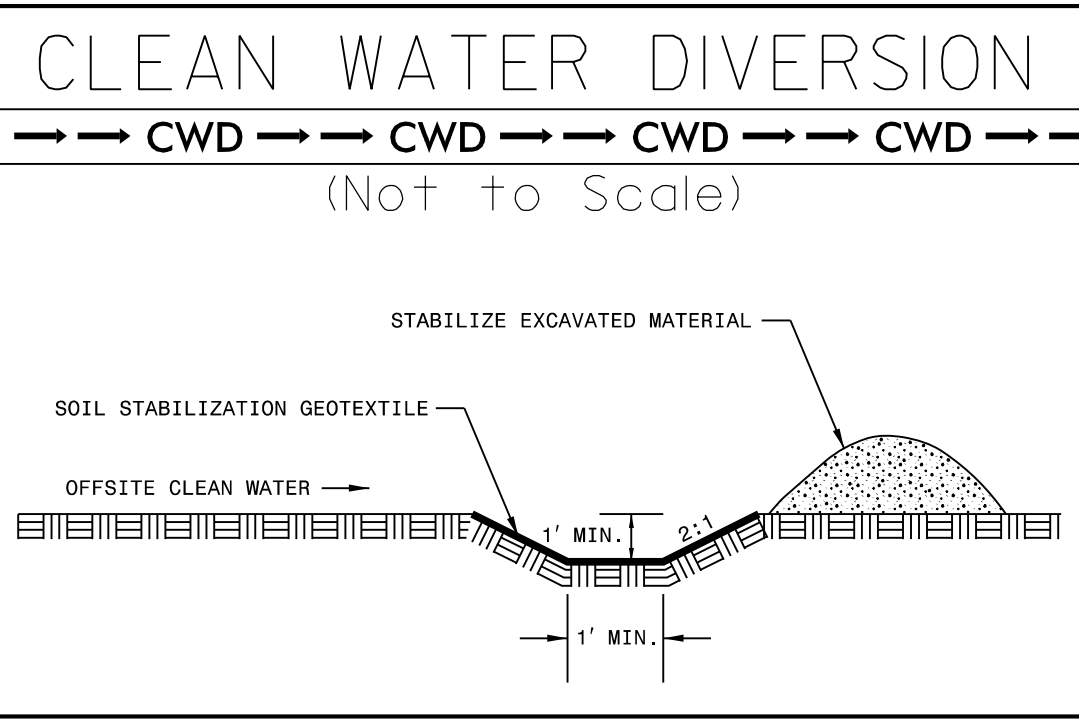
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REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

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8/17/99

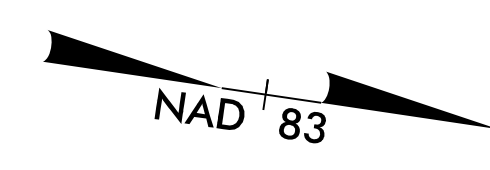
PROJECT REFERENCE NO.	SHEET NO.
R-1015	EC-74/CONST.23



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

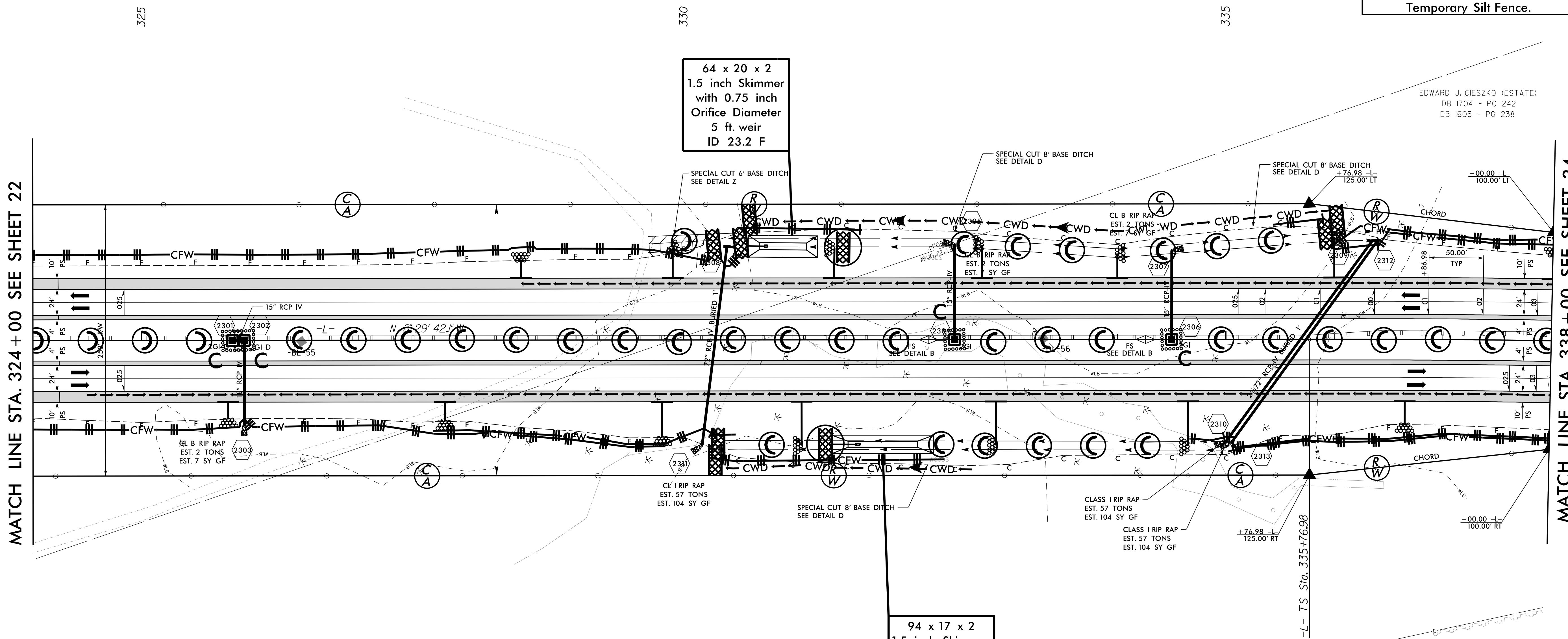
-L-
 Pls Sta 338+17.02
 $\theta_s = 3^{\circ} 08' 39.4''$
 $L_s = 360.00'$
 $LT = 240.04'$
 $ST = 120.03'$



Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
 -L- 335+00 to -L-338+00

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.
 -L- 324+00 to -L- 335+00

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.



EDWARD J. CIESZKO (ESTATE)
 DB 1704 - PG 242
 DB 1605 - PG 238

EDWARD J. CIESZKO (ESTATE)
 DB 1704 - PG 242
 DB 1605 - PG 238

6

MATCH LINE STA. 324 + 00 SEE SHEET 22

MATCH LINE STA. 338 + 00 SEE SHEET 24

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

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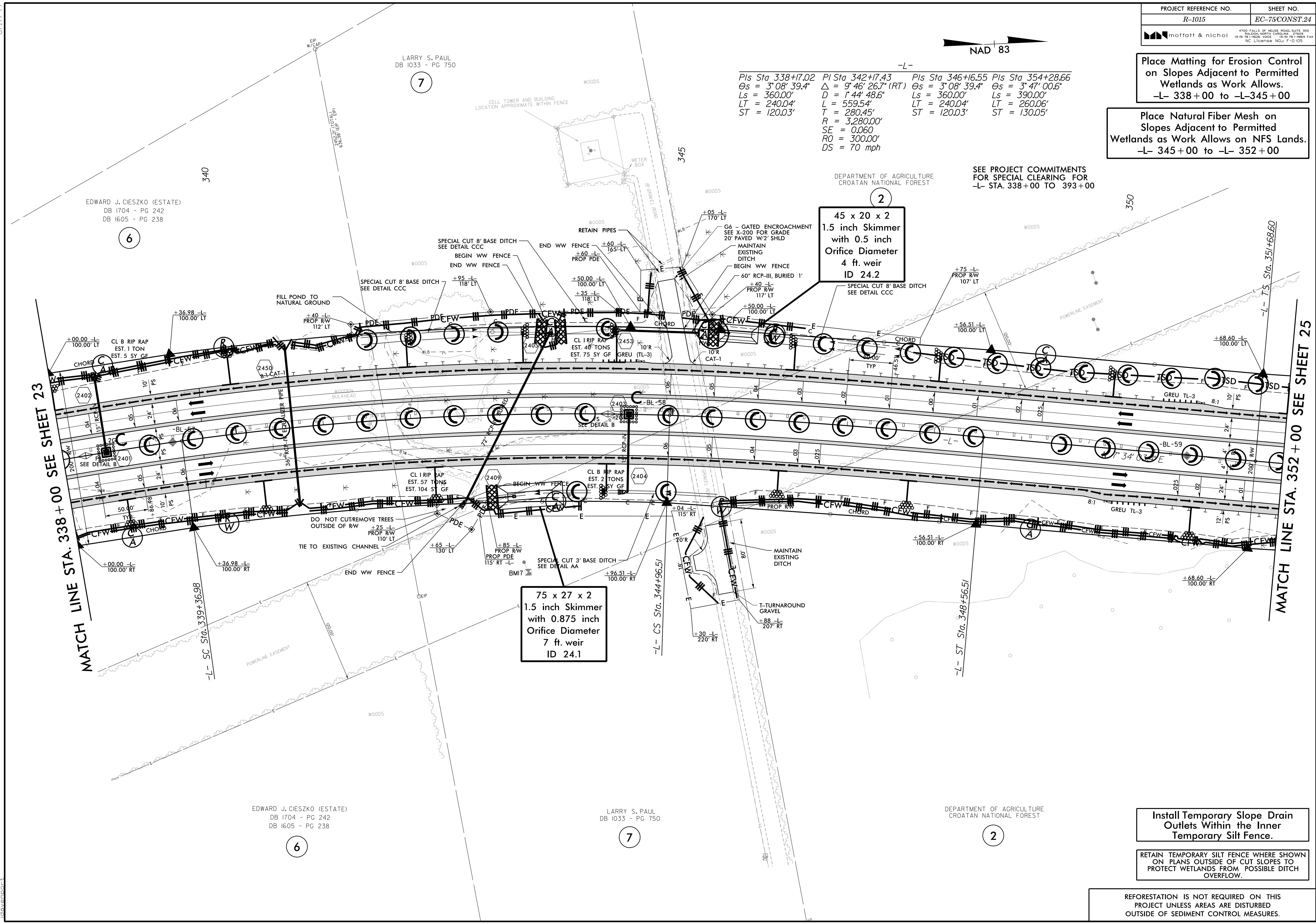


Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
-L- 338+00 to -L-345+00

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.
-L- 345+00 to -L- 352+00

SEE PROJECT COMMITMENTS FOR SPECIAL CLEARING FOR
-L- STA. 338+00 TO 393+00

-L-
 Pls Sta 338+17.02 PI Sta 342+17.43 Pls Sta 346+16.55 Pls Sta 354+28.66
 $\Theta_s = 3' 08' 39.4''$ $\Delta = 9' 46' 26.7''$ (RT) $\Theta_s = 3' 08' 39.4''$ $\Theta_s = 3' 47' 00.6''$
 $L_s = 360.00'$ $D = 1' 44' 48.6''$ $L_s = 360.00'$ $L_s = 390.00'$
 $LT = 240.04'$ $L = 559.54'$ $LT = 240.04'$ $LT = 260.06'$
 $ST = 120.03'$ $T = 280.45'$ $ST = 120.03'$ $ST = 130.05'$
 $R = 3,280.00'$
 $SE = 0.060$
 $RO = 300.00'$
 $DS = 70$ mph



45 x 20 x 2
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 24.2

75 x 27 x 2
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
7 ft. weir
ID 24.1

MATCH LINE STA. 338+00 SEE SHEET 23

MATCH LINE STA. 352+00 SEE SHEET 25

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

RETAIN TEMPORARY SILT FENCE WHERE SHOWN ON PLANS OUTSIDE OF CUT SLOPES TO PROTECT WETLANDS FROM POSSIBLE DITCH OVERFLOW.

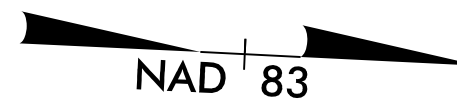
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99
 I:\7208\10729-02\CA000\1015\Roadside\VR-1015_REU\EC-75_PSH_24_Final.dgn

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

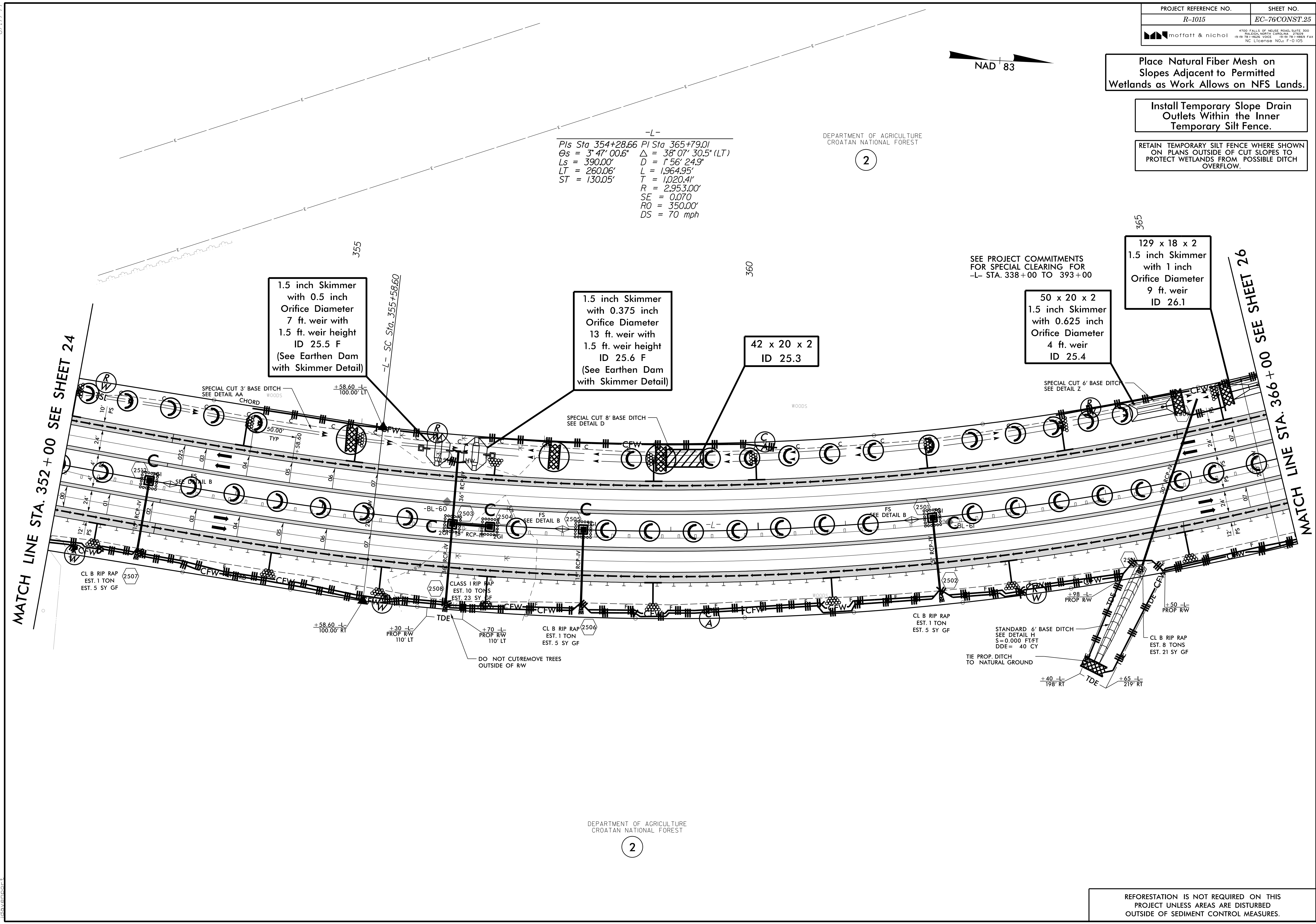
RETAIN TEMPORARY SILT FENCE WHERE SHOWN ON PLANS OUTSIDE OF CUT SLOPES TO PROTECT WETLANDS FROM POSSIBLE DITCH OVERFLOW.



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

-L-
 PIs Sta 354+28.66 PI Sta 365+79.01
 $\Delta = 38^{\circ} 07' 30.5" (LT)$
 $\Delta = 156^{\circ} 24.9"$
 $L_s = 390.00'$ $L = 1,964.95'$
 $LT = 260.06'$ $L = 1,020.41'$
 $ST = 130.05'$ $R = 2,953.00'$
 $SE = 0.070$
 $RO = 350.00'$
 $DS = 70 \text{ mph}$



MATCH LINE STA. 352+00 SEE SHEET 24

MATCH LINE STA. 366+00 SEE SHEET 26

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

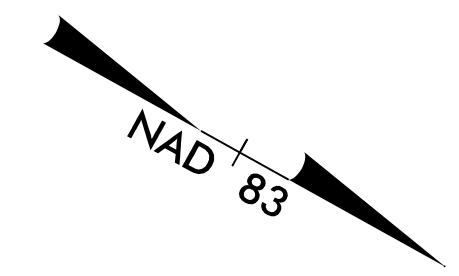
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99
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 11/7/2018 10:57:29 AM

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

-L-
 Pls Sta 365+79.01 Pls Sta 376+53.61
 $\Delta = 38^{\circ}07'30.5" (LT)$ $\Theta s = 3^{\circ}47'00.6"$
 $D = 1^{\circ}56'24.9"$ $Ls = 390.00'$
 $L = 1,964.95'$ $LT = 260.06'$
 $T = 1,020.41'$ $ST = 130.05'$
 $R = 2,953.00'$
 $SE = 0.070$
 $RO = 350.00'$
 $DS = 70 \text{ mph}$

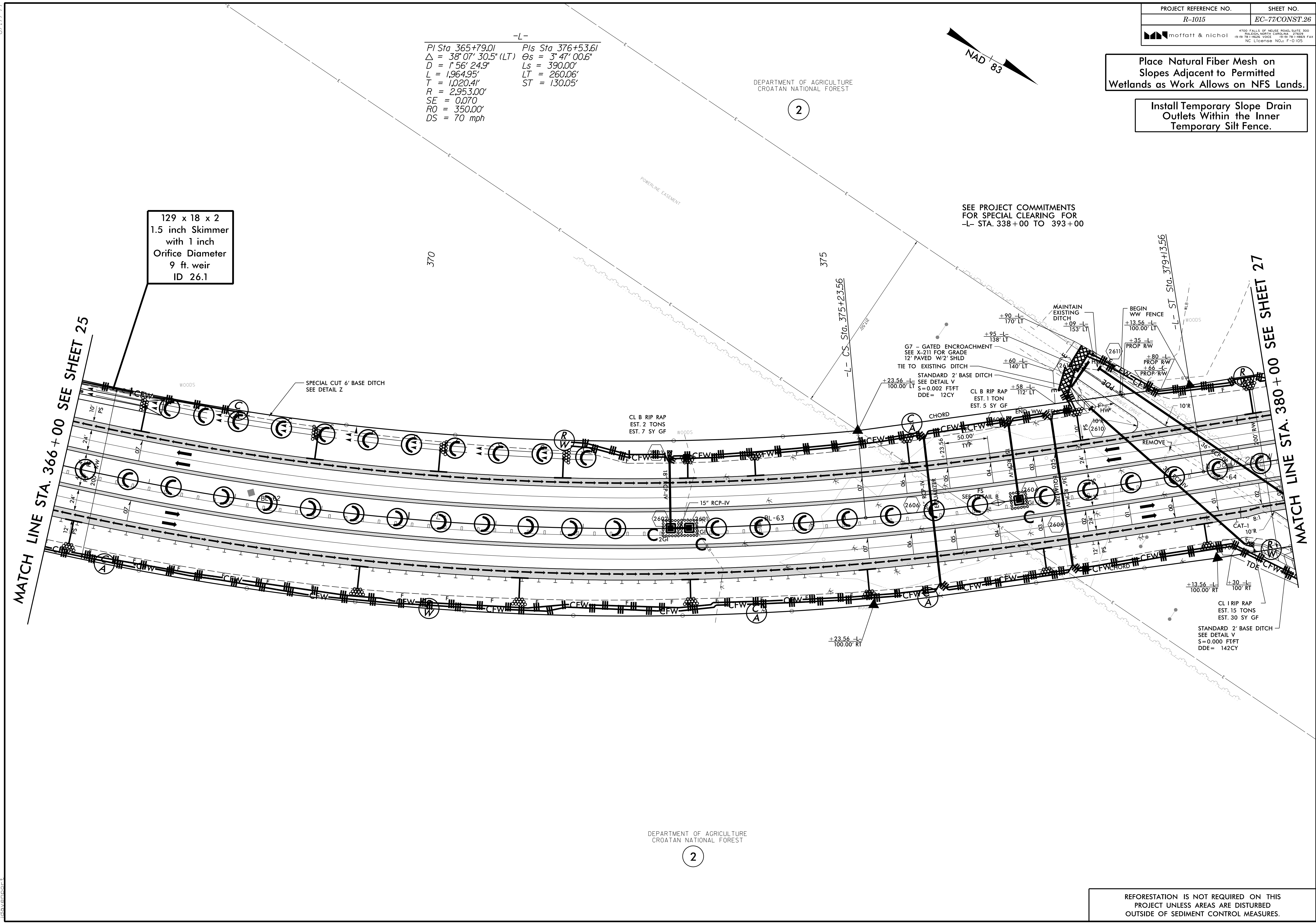


DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

SEE PROJECT COMMITMENTS FOR SPECIAL CLEARING FOR -L- STA. 338+00 TO 393+00

129 x 18 x 2
1.5 inch Skimmer
with 1 inch
Orifice Diameter
9 ft. weir
ID 26.1



MATCH LINE STA. 366+00 SEE SHEET 25

MATCH LINE STA. 380+00 SEE SHEET 27

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

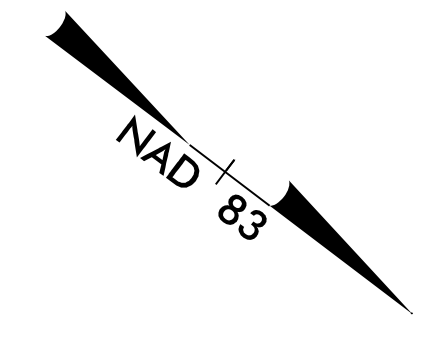
REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99
 I:\7\20\8\10\729-02\CA000\1015\Roadside\VR-1015_REU\EC-77_PSH_26_Final.dgn

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Outlets Within the Inner Temporary Silt Fence.

-L-
 Pls Sta 389+15.83 PI Sta 392+92.64
 $\theta_s = 1^\circ 26' 08.8''$ $\Delta = 5' 23' 33.7''$ (RT)
 $L_s = 296.00'$ $D = 0' 58' 12.5''$
 $LT = 197.34'$ $L = 555.87'$
 $ST = 98.67'$ $T = 278.14'$
 $R = 5,906.00'$
 $SE = 0.040$
 $RO = 200.00'$
 $DS = 70$ mph



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

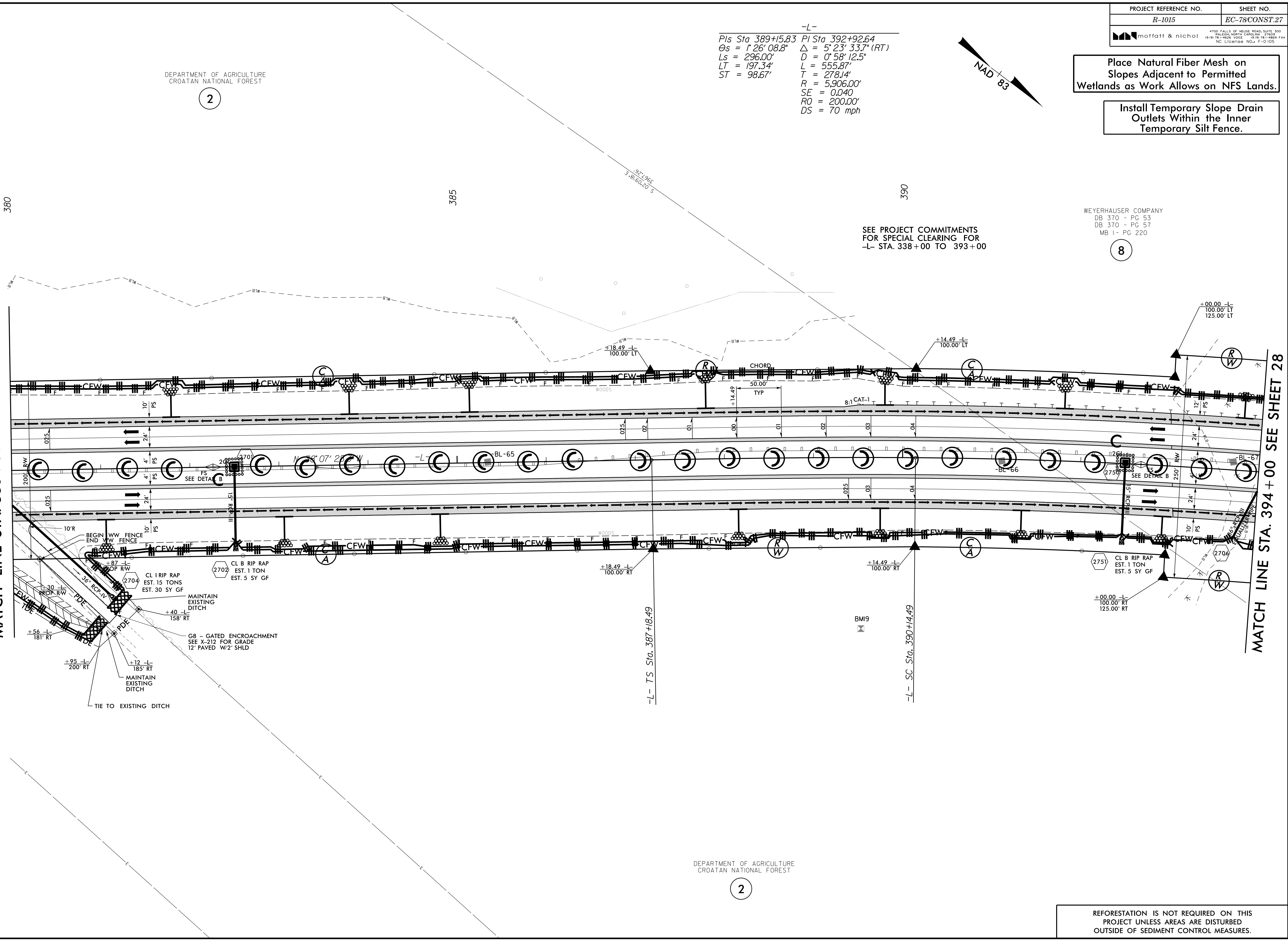
WEYERHAUSER COMPANY
 DB 370 - PG 53
 DB 370 - PG 57
 MB 1 - PG 220

8

SEE PROJECT COMMITMENTS
FOR SPECIAL CLEARING FOR
-L- STA. 338+00 TO 393+00

MATCH LINE STA. 380 + 00 SEE SHEET 26

MATCH LINE STA. 394 + 00 SEE SHEET 28



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99

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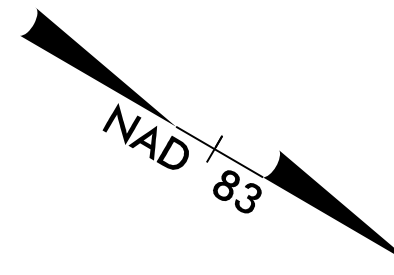
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

-DRI-		-L-	
PI Sta 10+75.64	PI Sta 13+27.52	PI Sta 392+92.64	PIs Sta 396+69.04
$\Delta = 67^{\circ} 31' 57.8" (LT)$	$\Delta = 69^{\circ} 08' 00.4" (LT)$	$\Delta = 5^{\circ} 23' 33.7" (RT)$	$\Theta_s = 1^{\circ} 26' 08.8"$
$D = 143^{\circ} 14' 22.0"$	$D = 143^{\circ} 14' 22.0"$	$D = 0^{\circ} 58' 12.5"$	$L_s = 296.00'$
$L = 47.15'$	$L = 48.26'$	$L = 555.87'$	$LT = 197.34'$
$T = 26.74'$	$T = 27.56'$	$T = 278.14'$	$ST = 98.67'$
$R = 40.00'$	$R = 40.00'$	$R = 5,906.00'$	
		$SE = 0.040$	
		$RO = 200.00'$	
		$DS = 70 \text{ mph}$	

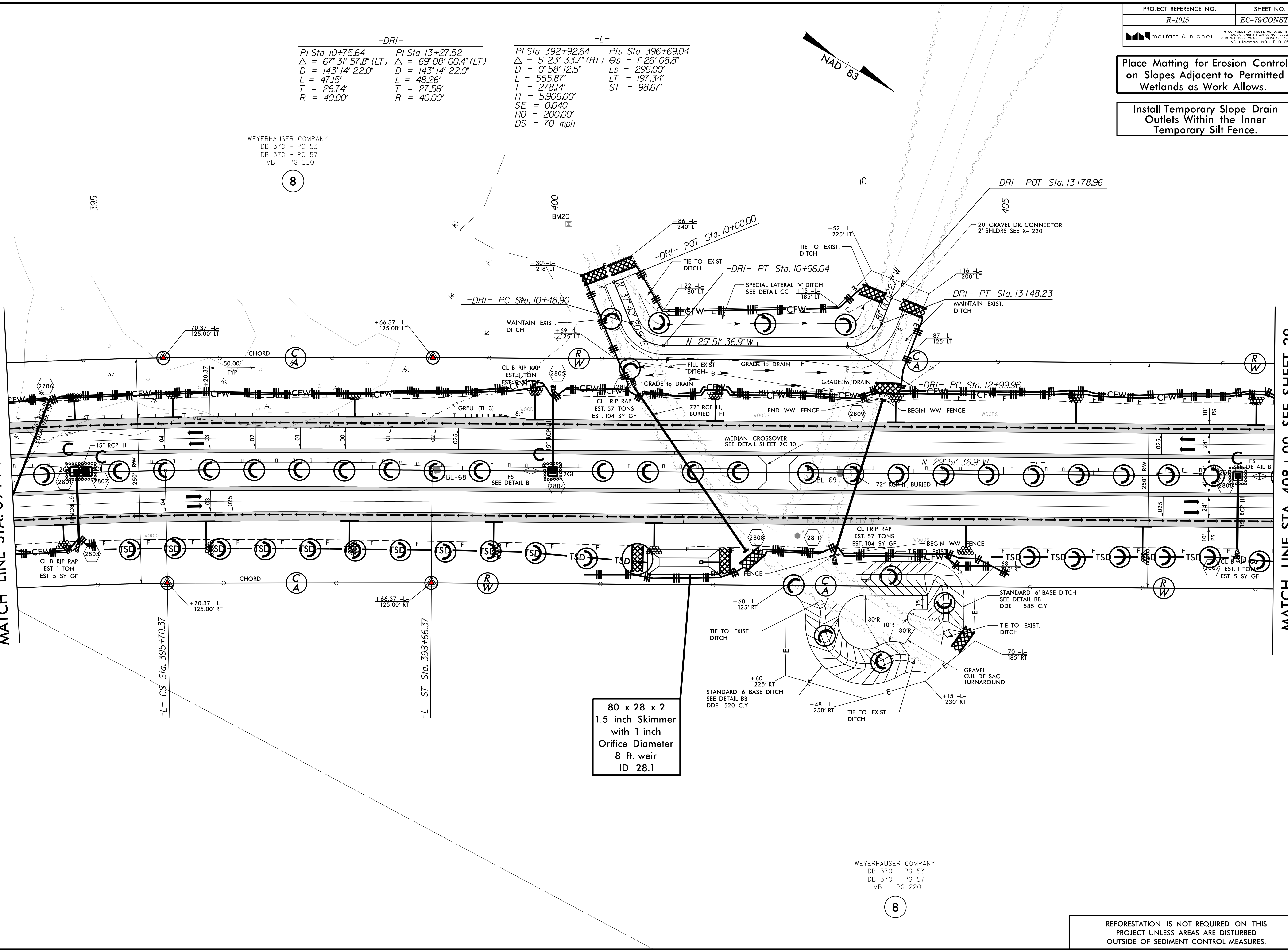
WEYERHAUSER COMPANY
DB 370 - PG 53
DB 370 - PG 57
MB 1 - PG 220

8



MATCH LINE STA. 394 + 00 SEE SHEET 27

MATCH LINE STA. 408 + 00 SEE SHEET 29



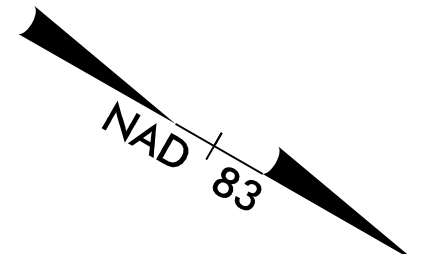
80 x 28 x 2
1.5 inch Skimmer
with 1 inch
Orifice Diameter
8 ft. weir
ID 28.1

WEYERHAUSER COMPANY
DB 370 - PG 53
DB 370 - PG 57
MB 1 - PG 220

8

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8.17.799
3/5/2019
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Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.

Install Temporary Slope Drain
Outlets Within the Inner
Temporary Silt Fence.

WEYERHAUSER COMPANY
 DB 370 - PG 53
 DB 370 - PG 57
 MB 1 - PG 220

8

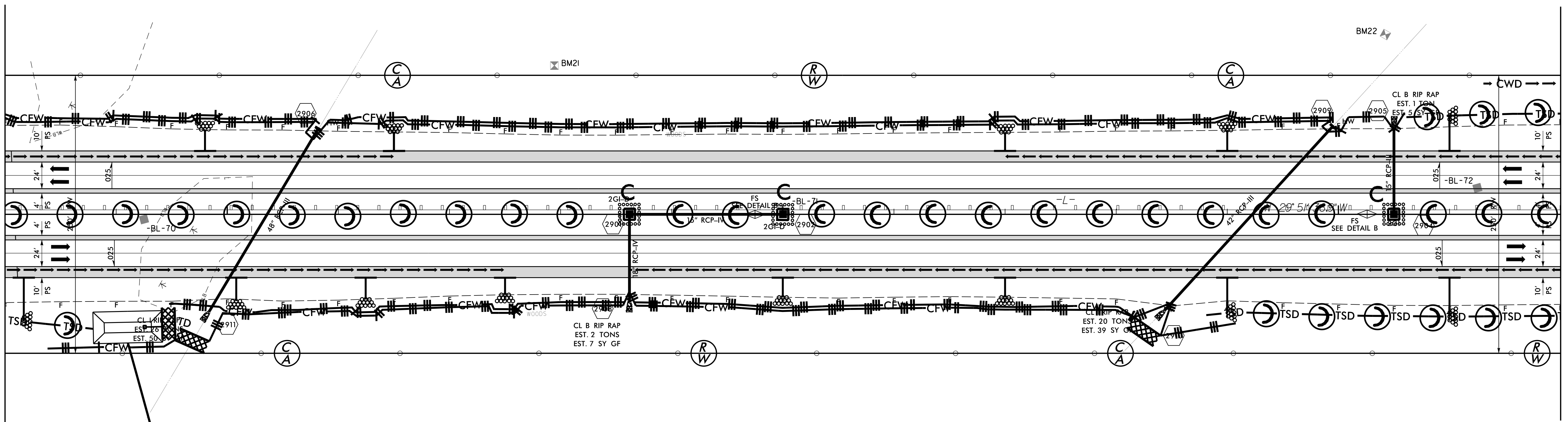
410

415

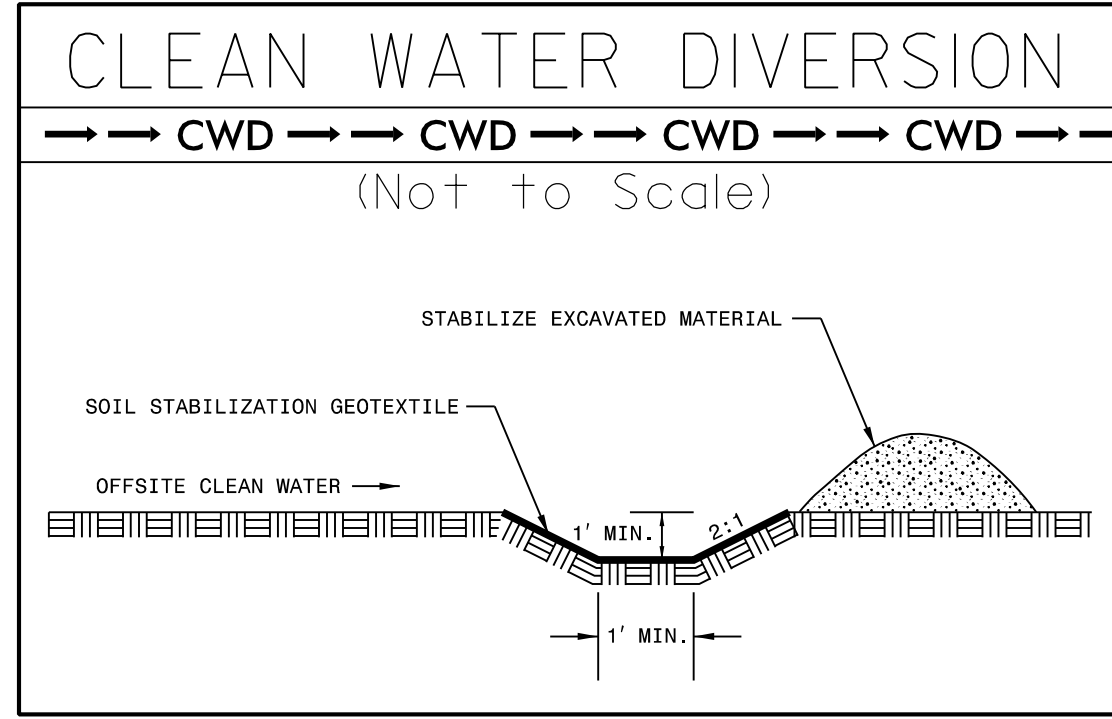
420

MATCH LINE STA. 408 + 00 SEE SHEET 28

MATCH LINE STA. 422 + 00 SEE SHEET 30



60 x 28 x 2
 1.5 inch Skimmer
 with 0.875 inch
 Orifice Diameter
 6 ft. weir
 ID 29.1



WEYERHAUSER COMPANY
 DB 370 - PG 53
 DB 370 - PG 57
 MB 1 - PG 220

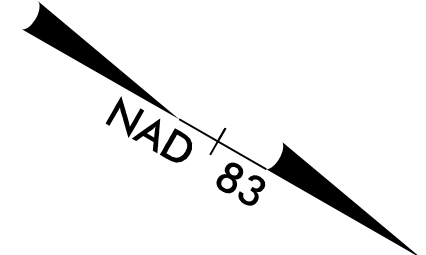
8

REFORESTATION IS NOT REQUIRED ON THIS
 PROJECT UNLESS AREAS ARE DISTURBED
 OUTSIDE OF SEDIMENT CONTROL MEASURES.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows. -L- 422+00 to -L-427+00

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands. -L- 427+00 to -L- 436+00

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

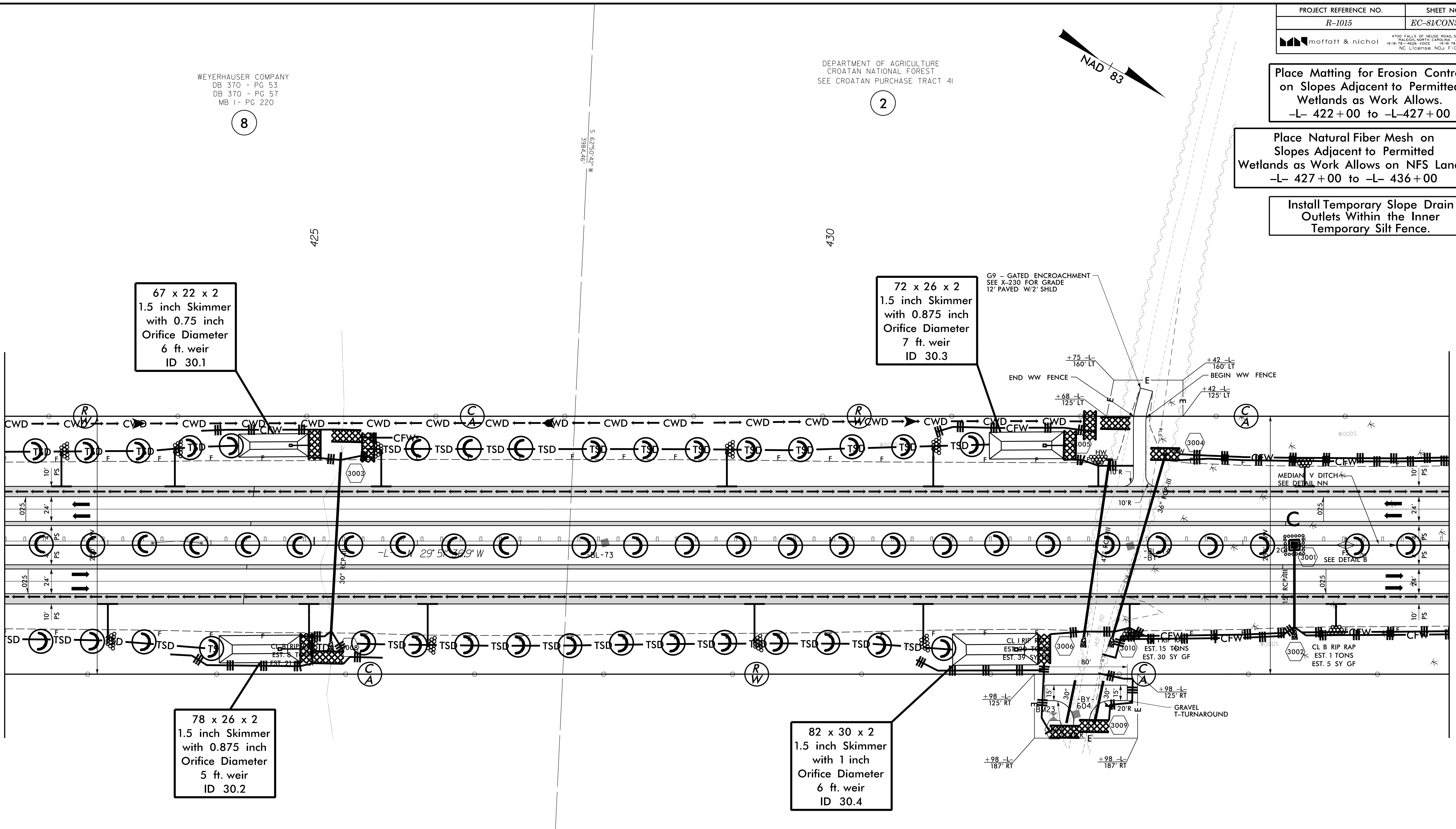


WEYERHAUSER COMPANY
DB 370 - PG 53
DB 370 - PG 57
MB 1 - PG 220

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
SEE CROATAN PURCHASE TRACT 41

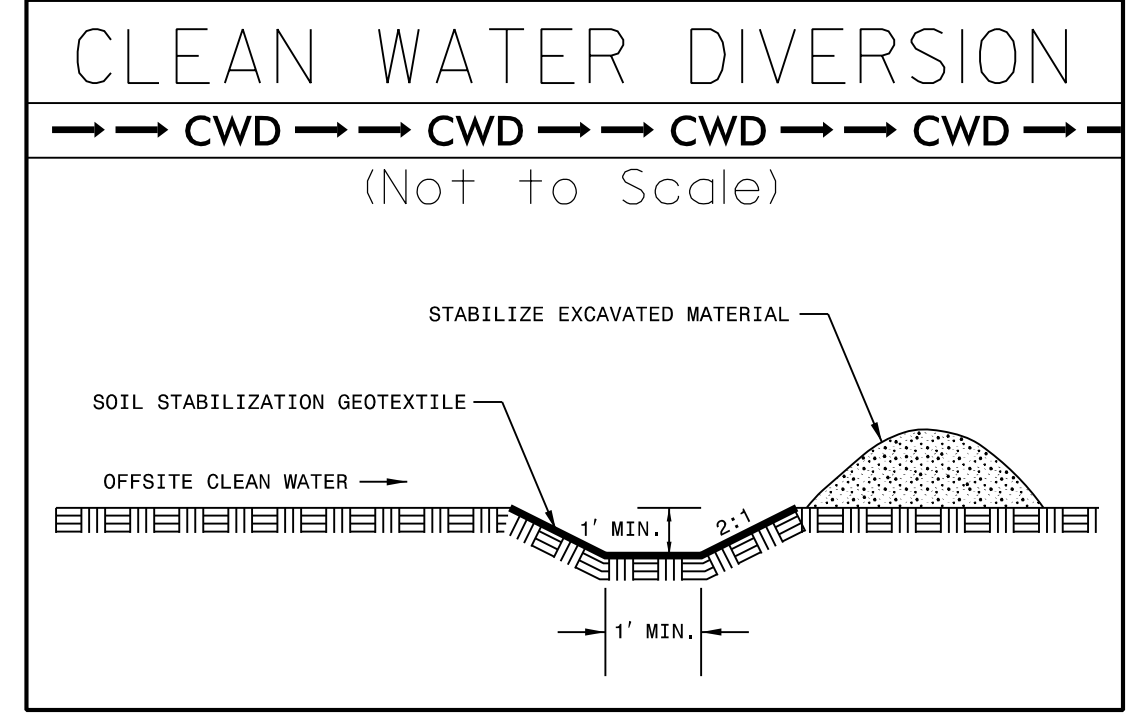
MATCH LINE STA. 422 + 00 SEE SHEET 29

MATCH LINE STA. 436 + 00 SEE SHEET 31



WEYERHAUSER COMPANY
DB 370 - PG 53
DB 370 - PG 57
MB 1 - PG 220

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
SEE CROATAN PURCHASE TRACT 41



REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99
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8/17/99
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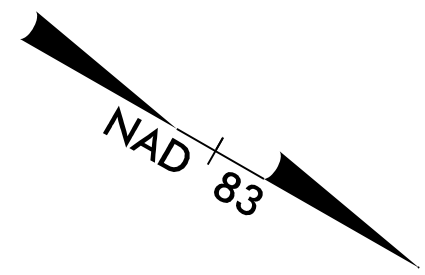
PROJECT REFERENCE NO.	SHEET NO.
R-1015	EC-82CONST.31

moftatt & nichol
4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
TEL: 919-426-7000 FAX: 919-426-7001
NC LICENSE NO. F-0105

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
-L- 443+00 to -L-450+00

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.
-L- 436+00 to -L- 443+00

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
SEE CROATAN PURCHASE TRACT 41

2

LENA EBROU
DB 221 - PG 146

9

R. GRAHAM WILLIAMS, et ux
DB 1540 - PG 350

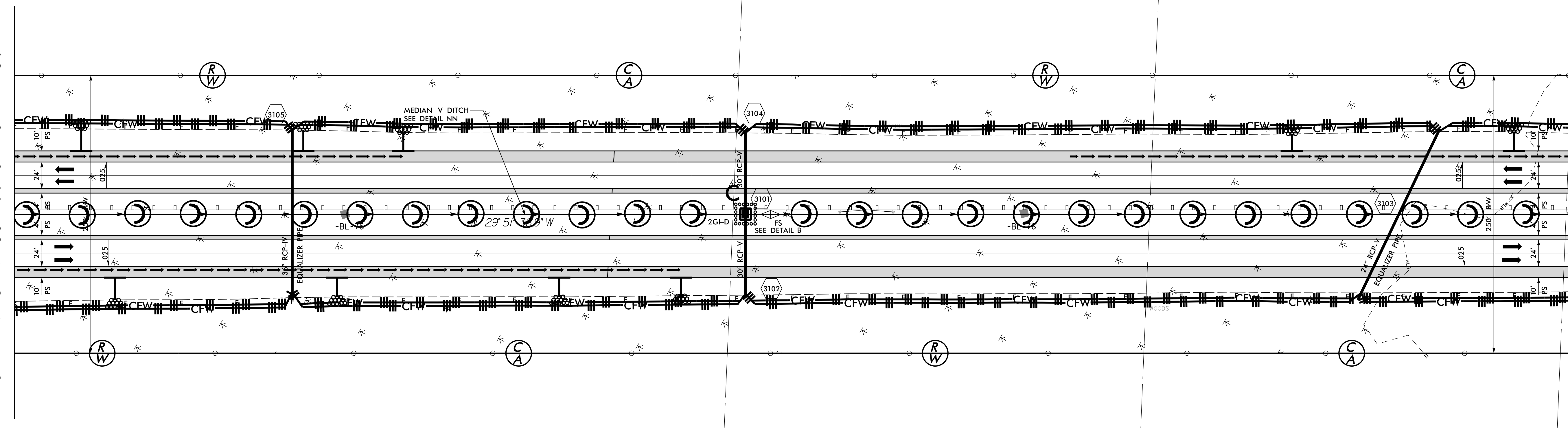
10

440

445

MATCH LINE STA. 436 + 00 SEE SHEET 30

MATCH LINE STA. 450 + 00 SEE SHEET 32



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
SEE CROATAN PURCHASE TRACT 41

2

LENA EBROU
DB 221 - PG 146

9

R. GRAHAM WILLIAMS, et ux
DB 1540 - PG 350

10

BOLING FAMILY INVESTMENTS, L.L.C., et al
DB 796 - PG 303
DB 1742 - PG 825

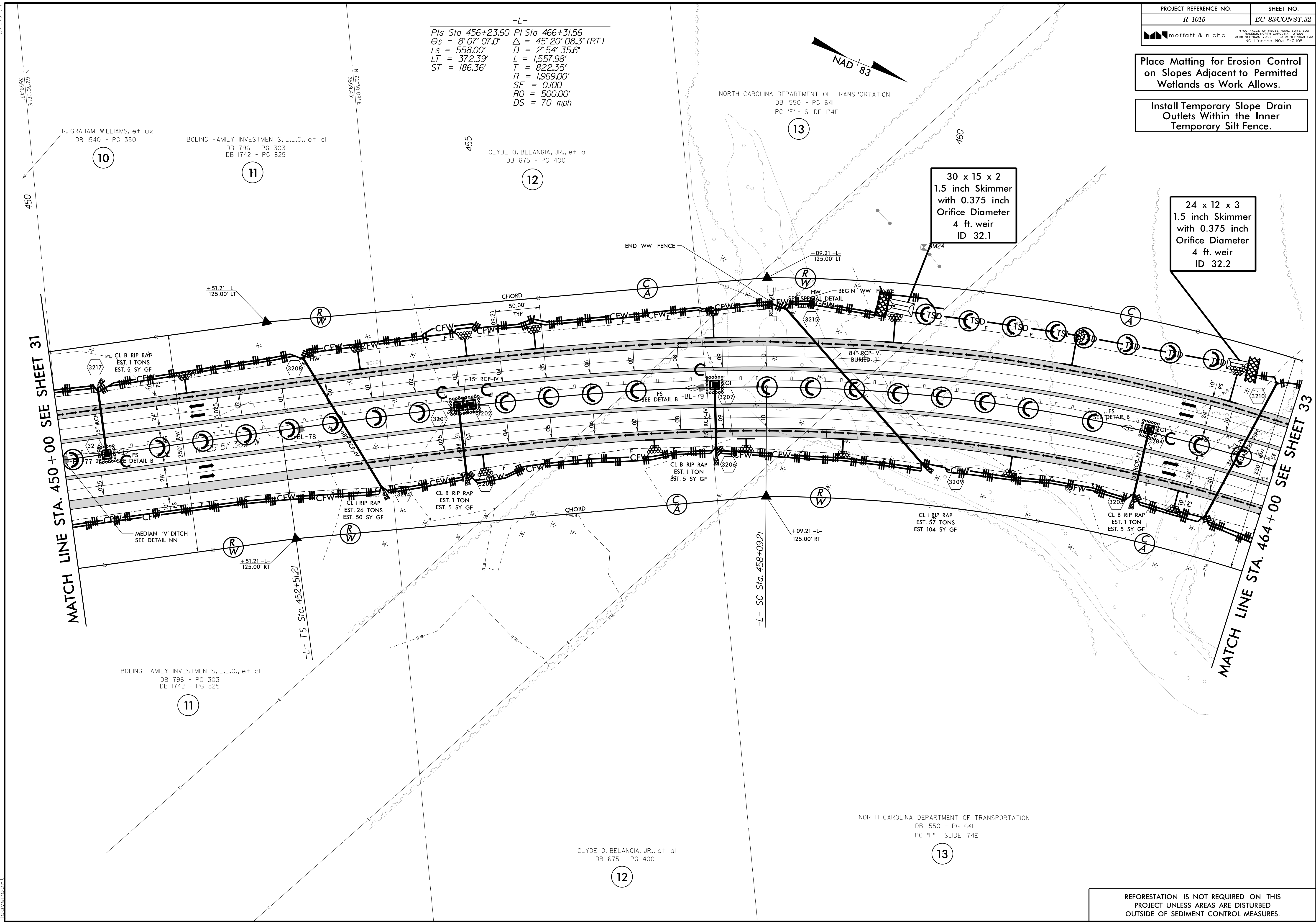
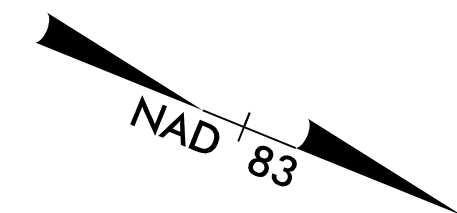
11

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

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

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

-L-
 PIs Sta 456+23.60 PI Sta 466+31.56
 $\theta_s = 8^{\circ}07'07.0''$ $\Delta = 45^{\circ}20'08.3''$ (RT)
 $L_s = 558.00'$ $D = 2^{\circ}54'35.6''$
 $LT = 372.39'$ $L = 1,557.98'$
 $ST = 186.36'$ $T = 822.35'$
 $R = 1,969.00'$
 $SE = 0.00$
 $RO = 500.00'$
 $DS = 70$ mph



30 x 15 x 2
 1.5 inch Skimmer
 with 0.375 inch
 Orifice Diameter
 4 ft. weir
 ID 32.1

24 x 12 x 3
 1.5 inch Skimmer
 with 0.375 inch
 Orifice Diameter
 4 ft. weir
 ID 32.2

MATCH LINE STA. 450+00 SEE SHEET 31

MATCH LINE STA. 464+00 SEE SHEET 33

R. GRAHAM WILLIAMS, et ux
 DB 1540 - PG 350

BOLING FAMILY INVESTMENTS, L.L.C., et al
 DB 796 - PG 303
 DB 1742 - PG 825

CLYDE O. BELANGIA, JR., et al
 DB 675 - PG 400

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DB 1550 - PG 641
 PC 'F' - SLIDE 174E

BOLING FAMILY INVESTMENTS, L.L.C., et al
 DB 796 - PG 303
 DB 1742 - PG 825

CLYDE O. BELANGIA, JR., et al
 DB 675 - PG 400

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DB 1550 - PG 641
 PC 'F' - SLIDE 174E

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

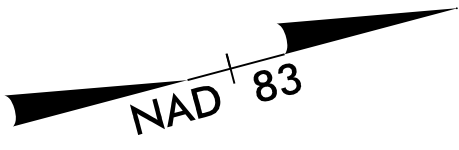
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Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

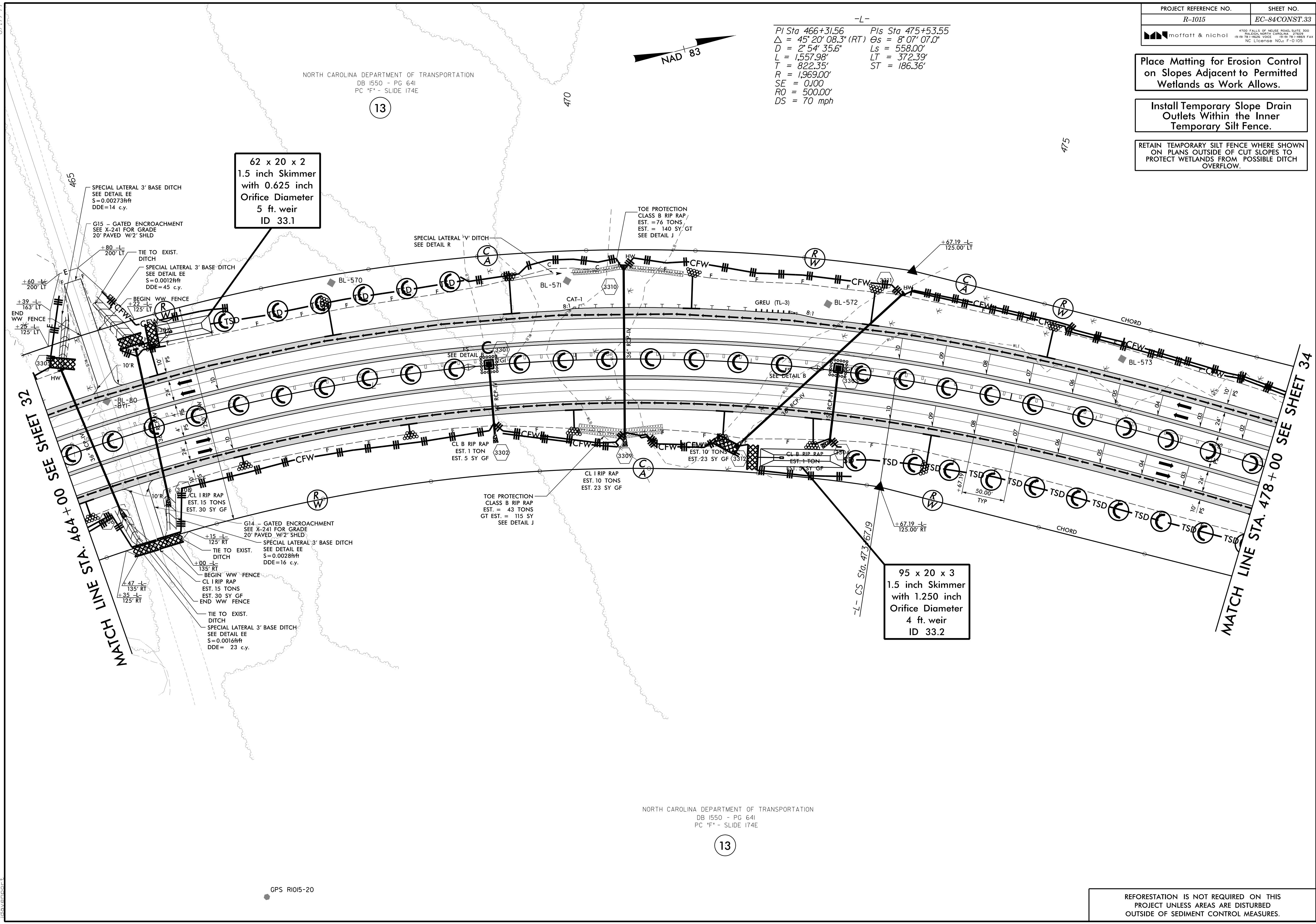
RETAIN TEMPORARY SILT FENCE WHERE SHOWN ON PLANS OUTSIDE OF CUT SLOPES TO PROTECT WETLANDS FROM POSSIBLE DITCH OVERFLOW.

-L-
 Pls Sta 466+31.56 Pls Sta 475+53.55
 $\Delta = 45^{\circ} 20' 08.3" (RT)$ $\Theta_s = 8^{\circ} 07' 07.0"$
 $D = 2^{\circ} 54' 35.6"$ $L_s = 558.00'$
 $L = 1,557.98'$ $LT = 372.39'$
 $T = 822.35'$ $ST = 186.36'$
 $R = 1,969.00'$
 $SE = 0.100$
 $RO = 500.00'$
 $DS = 70 \text{ mph}$



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DB 1550 - PG 641
 PC 'F' - SLIDE 174E

13



62 x 20 x 2
 1.5 inch Skimmer
 with 0.625 inch
 Orifice Diameter
 5 ft. weir
 ID 33.1

95 x 20 x 3
 1.5 inch Skimmer
 with 1.250 inch
 Orifice Diameter
 4 ft. weir
 ID 33.2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DB 1550 - PG 641
 PC 'F' - SLIDE 174E

13

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8/17/99
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GPS RI015-20

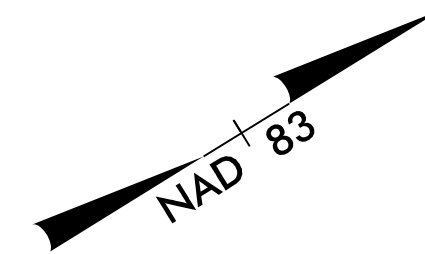
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-1015	EC-85CONST.34

-L-
 PIs Sta 475+53.55
 $\theta_s = 8^{\circ} 07' 07.0''$
 $L_s = 558.00'$
 $LT = 372.39'$
 $ST = 186.36'$

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 NO DEED REFERENCE
 SEE CROATAN PURCHASE TRACT 16c

2



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DB 1550 - PG 641
 PC *F* - SLIDE 174E

13

480

485

490

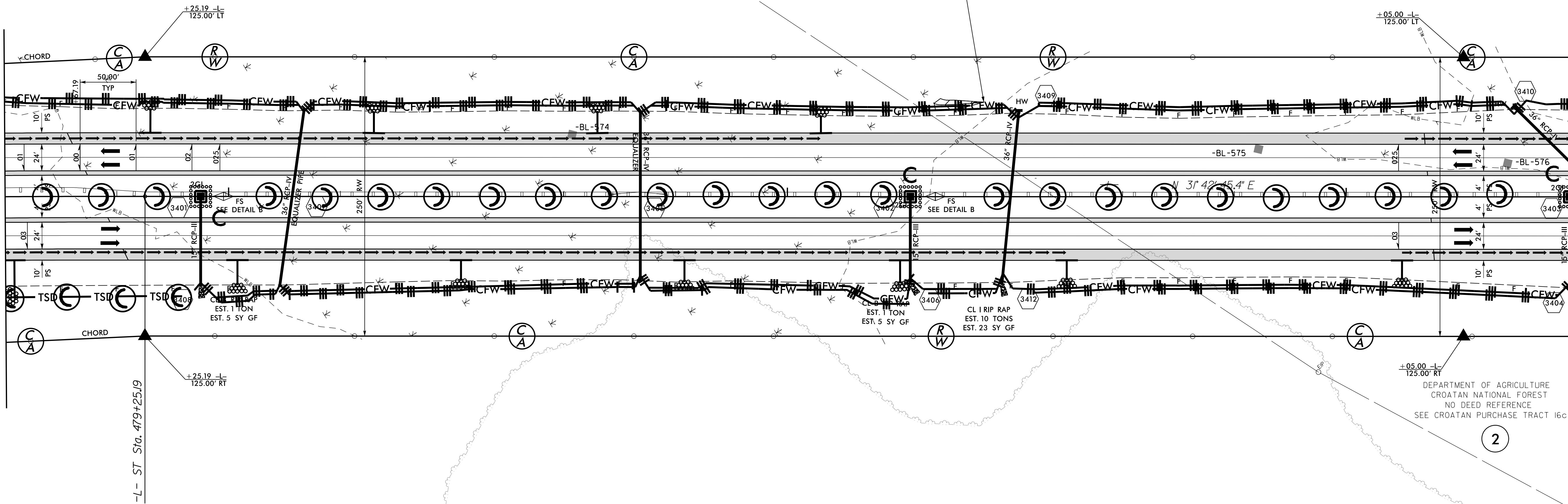
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows. -L- 478+00 to -L-485+00

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands. -L- 485+00 to -L- 492+00

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

MATCH LINE STA. 478 + 00 SEE SHEET 33

MATCH LINE STA. 492 + 00 SEE SHEET 35



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DB 1550 - PG 641
 PC *F* - SLIDE 174E

13

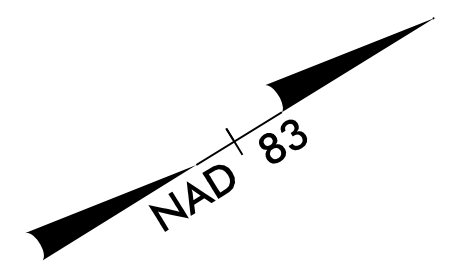
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Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

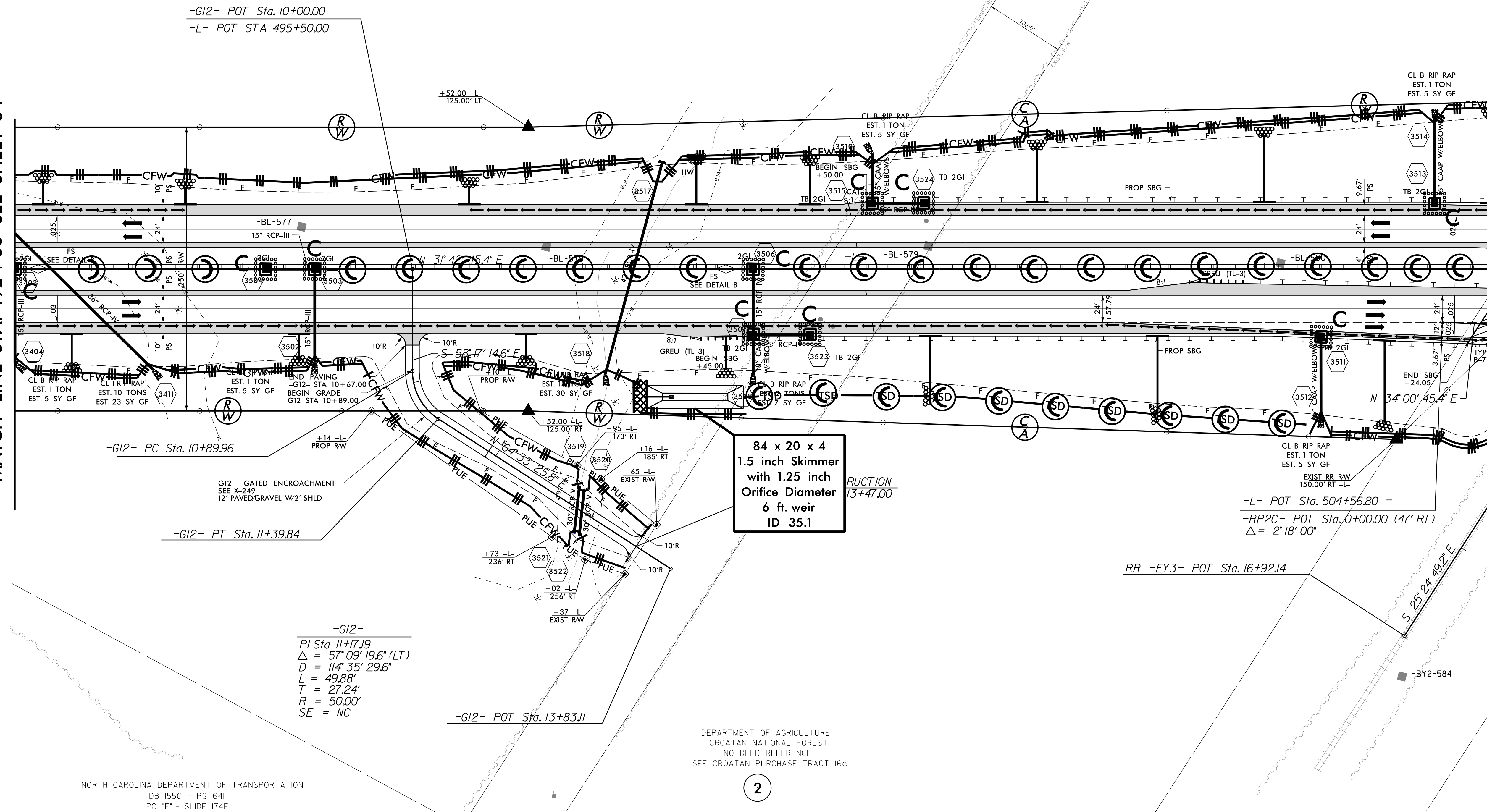
DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
NO DEED REFERENCE
SEE CROATAN PURCHASE TRACT 16c



2

MATCH LINE STA. 492 + 00 SEE SHEET 34

MATCH LINE STA. 505 + 00 SEE SHEET 36



84 x 20 x 4
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 35.1

-G12-
PI Sta 11+17.19
Δ = 57' 09" 19.6' (LT)
D = 114' 35" 29.6'
L = 49.88'
T = 27.24'
R = 50.00'
SE = NC

-L- POT Sta. 504+56.80 =
-RP2C- POT Sta. 0+00.00 (47' RT)
Δ = 2' 18" 00"

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DB 1550 - PG 641
PC *P* - SLIDE 174E

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
NO DEED REFERENCE
SEE CROATAN PURCHASE TRACT 16c

2

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

13

8/17/99

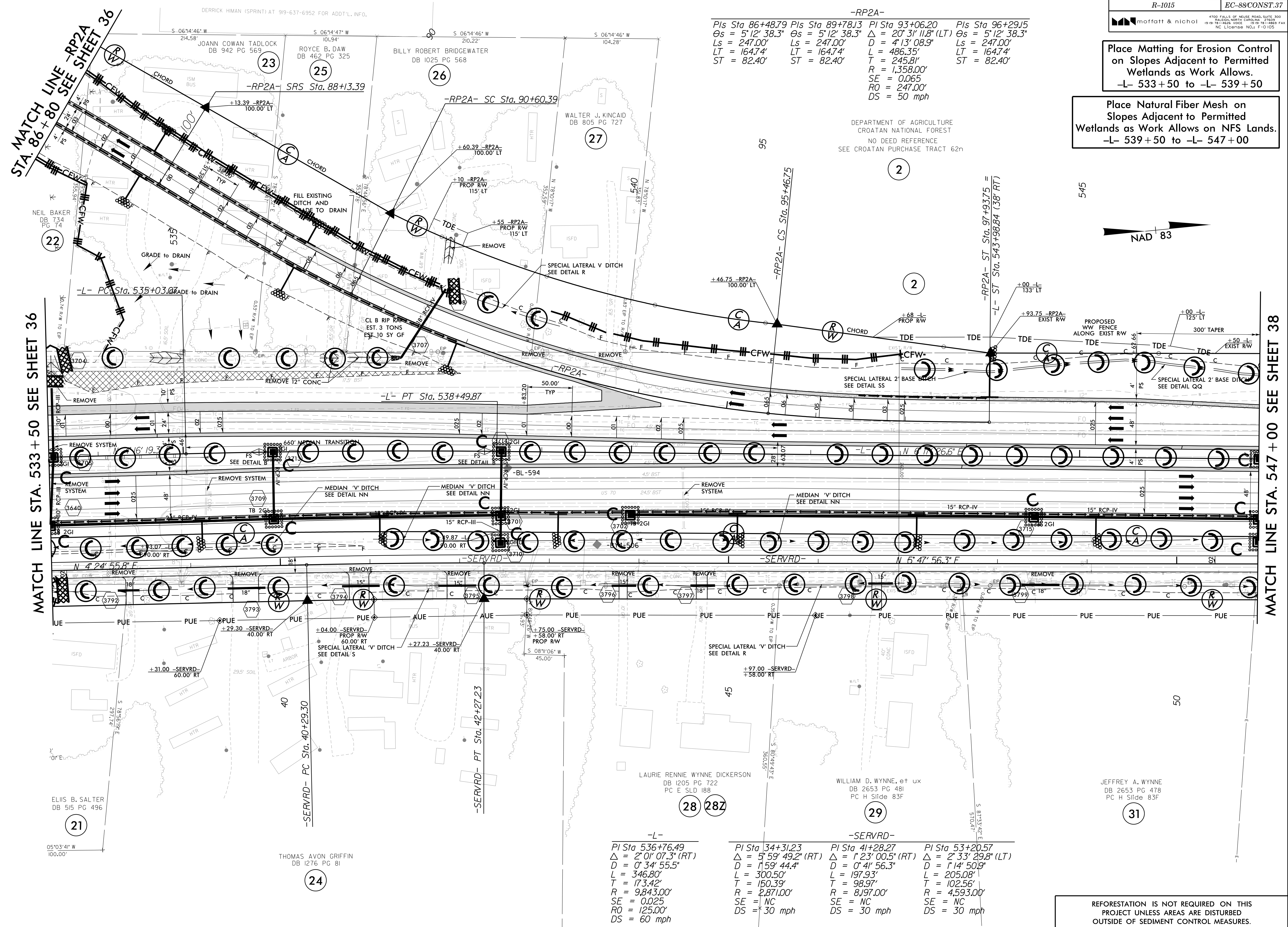
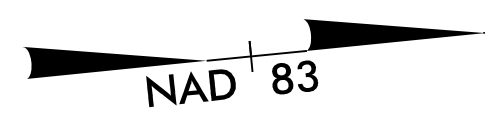
I:\7\6\9729-02\CA000\1015\Roadside\1015_REU_EC-86_PSH_35_Final.dgn

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
-L- 533 + 50 to -L- 539 + 50

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.
-L- 539 + 50 to -L- 547 + 00

-RP2A-
 Pls Sta 86+48.79 Pls Sta 89+78.13 Pls Sta 93+06.20 Pls Sta 96+29.15
 $\Delta s = 5' 12' 38.3"$ $\Delta s = 5' 12' 38.3"$ $\Delta = 20' 31' 11.8" (LT)$ $\Delta s = 5' 12' 38.3"$
 $Ls = 247.00'$ $Ls = 247.00'$ $D = 4' 13' 08.9"$ $Ls = 247.00'$
 $LT = 164.74'$ $LT = 164.74'$ $L = 486.35'$ $LT = 164.74'$
 $ST = 82.40'$ $ST = 82.40'$ $T = 245.81'$ $ST = 82.40'$
 $R = 1,358.00'$
 $SE = 0.065$
 $RO = 247.00'$
 $DS = 50 mph$

DEPARTMENT OF AGRICULTURE
 CROATAN NATIONAL FOREST
 NO DEED REFERENCE
 SEE CROATAN PURCHASE TRACT 62n



-L-
 Pls Sta 536+76.49
 $\Delta = 2' 01' 07.3" (RT)$
 $D = 0' 34' 55.5"$
 $L = 346.80'$
 $T = 173.42'$
 $R = 9,843.00'$
 $SE = 0.025$
 $RO = 125.00'$
 $DS = 60 mph$

-SERVRD-
 Pls Sta 34+31.23
 $\Delta = 5' 59' 49.2" (RT)$
 $D = 1' 59' 44.4"$
 $L = 300.50'$
 $T = 150.39'$
 $R = 2,871.00'$
 $SE = NC$
 $DS = 30 mph$

-SERVRD-
 Pls Sta 41+28.27
 $\Delta = 1' 23' 00.5" (RT)$
 $D = 0' 41' 56.3"$
 $L = 197.93'$
 $T = 98.97'$
 $R = 8,197.00'$
 $SE = NC$
 $DS = 30 mph$

-SERVRD-
 Pls Sta 53+20.57
 $\Delta = 2' 33' 29.8" (LT)$
 $D = 1' 14' 50.9"$
 $L = 205.08'$
 $T = 102.56'$
 $R = 4,593.00'$
 $DS = 30 mph$

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

8.17.99
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Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

-L-

PI Sta 548+94.45	PI Sta 555+33.32
$\Delta s = 0^{\circ} 38' 46.1''$	$\Delta = 10^{\circ} 16' 02.6''$ (LT)
$L_s = 148.00'$	$D = 0^{\circ} 52' 23.3''$
$LT = 98.67'$	$L = 1,175.91'$
$ST = 49.33'$	$T = 589.53'$
	$R = 6,562.00'$
	$SE = 0.025$
	$RO = 150.00'$
	$DS = 60$ mph

-SERVEXT-

PI Sta 18+96.44	$\Delta = 8^{\circ} 19' 25.3''$ (LT)
$D = 1^{\circ} 54' 35.5''$	$L = 435.83'$
$T = 218.30'$	$R = 3,000.00'$
$SE = NC$	$DS = 30$ mph



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

