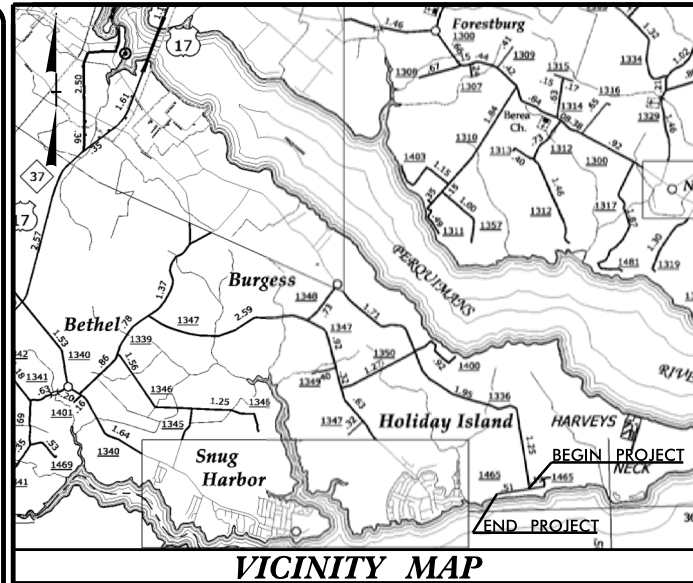


WBS ELEMENT: IC.072054

CONTRACT NO: DA00133



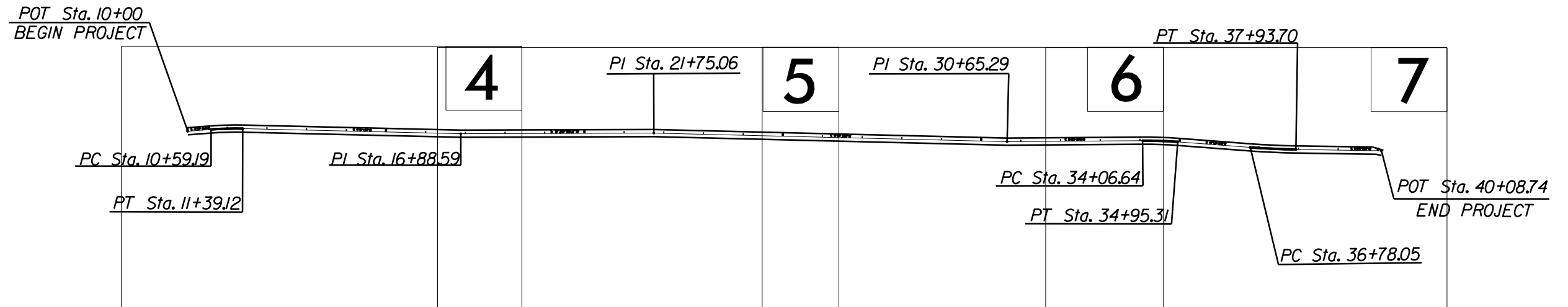
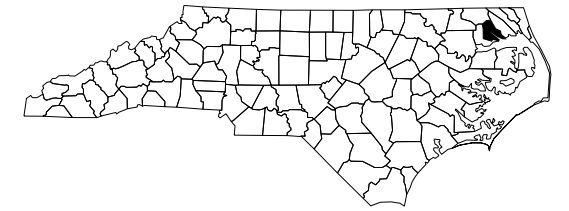
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PERQUIMANS COUNTY**

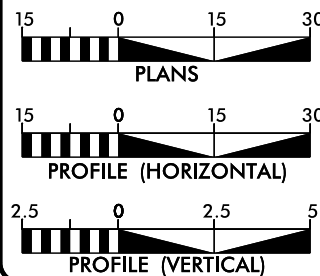
LOCATION: SR 1465 GOOSENES LN., OFF OF SR 1336 SOUTH OF HERTFORD

TYPE OF WORK: GRADE, DRAIN, BASE AND PAVE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	1C.072054	1
STATE PROJ. NO.	DESCRIPTION	
1C.072054	MAIN.	



GRAPHIC SCALES



PROJECT LENGTH

LENGTH OF ROADWAY PROJECT: 0.58 MI.  
TOTAL LENGTH OF STATE PROJECT: 0.58 MI.

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

1929 NORTH ROAD STREET, ELIZABETH CITY NC, 27909

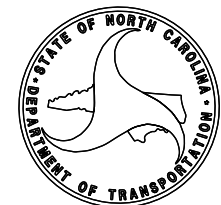
2012 STANDARD SPECIFICATIONS

LETTING DATE:

GRETCHEN A. BYRUM, P.E.  
DISTRICT ENGINEER

BRENT W. BASS  
ASSISTANT DISTRICT ENGINEER

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF PIPE QUANTITIES
3-B	STABILIZATION DETAIL
4 THRU 7	PLAN / PROFILE SHEETS
EC-1 THRU EC-7	EROSION CONTROL PLANS

GENERAL NOTES:

2012 SPECIFICATIONS

GRADE LINE:  
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE ALBEMARLE EMC.

CENTURY LINK

PERQUIMANS COUNTY WATER DEPARTMENT

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE

DIVISION 2 - EARTHWORK

225.02 Guide for Grading Subgrade - Secondary and Local  
225.04 Method of Obtaining Superlevation - Two Lane Pavement

DIVISION 3 - PIPE CULVERTS

300.01 Method of Pipe Installation - Method 'A'  
310.10 Driveway Pipe Construction

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method 1

DIVISION 8 - INCIDENTALS

848.02 Driveway Turnout - Radius Type  
876.02 Guide for Rip Rap at Pipe Outlets

04/16/11

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. 1C.072054 SHEET NO. 1-B

# CONVENTIONAL PLAN SHEET SYMBOLS

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ IP
Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-MLB-
Proposed Wetland Boundary	-MLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ?

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	♀
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	⊕
Building	□
School	□
Church	⊕
Dam	▬

### HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	-JS-
Buffer Zone 1	-BZ 1-
Buffer Zone 2	-BZ 2-
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	⊥
Proposed Lateral, Tail, Head Ditch	▬
False Sump	◊

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	○
Proposed Right of Way Line with Concrete or Granite Marker	○
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Drainage / Utility Easement	-DUE-
Proposed Permanent Utility Easement	-PUE-
Proposed Temporary Utility Easement	-TUE-
Proposed Aerial Utility Easement	-AUE-
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-C-
Proposed Slope Stakes Fill	-F-
Proposed Curb Ramp	○
Curb Cut Future Ramp	○
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	▬

### VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	-----
Woods Line	-----

Orchard	○
Vineyard	□ Vineyard

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	□ CONC
Bridge Wing Wall, Head Wall and End Wall	□ CONC WW
MINOR:	
Head and End Wall	□ CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

### UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	□
H-Frame Pole	●
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

### TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	□
Telephone Pedestal	⊕
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	□
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

### WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

### TV:

TV Satellite Dish	⊕
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

### GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	----- A/G Gas

### SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

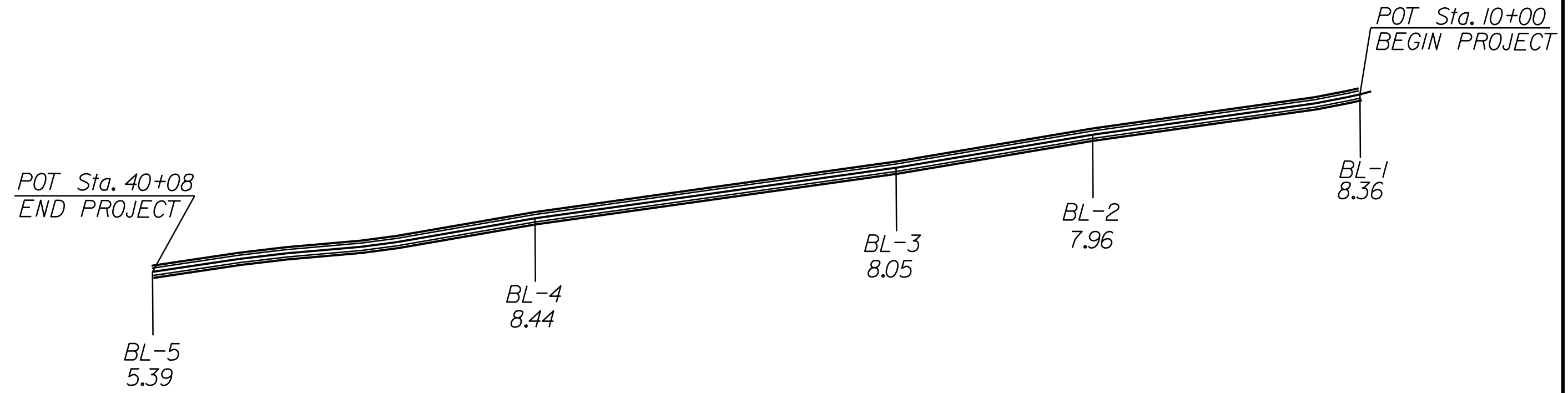
### MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

# SURVEY CONTROL SHEET

## CONTROL DATA

POINT	DESC.	NORTH	EAST	ELEVATION	STATION
101	(BL-1)	861330.8530	2791299.9310	8.36	10+00.00
104	(BL-2)	861232.4320	2780647.3460	7.96	16+88.59
105	(BL-3)	861151.7650	2780167.5400	8.05	21+75.06
106	(BL-4)	861028.3990	2779285.9400	8.44	30+65.29
111	(BL-5)	860897.6350	2778352.2390	5.39	40+08.74



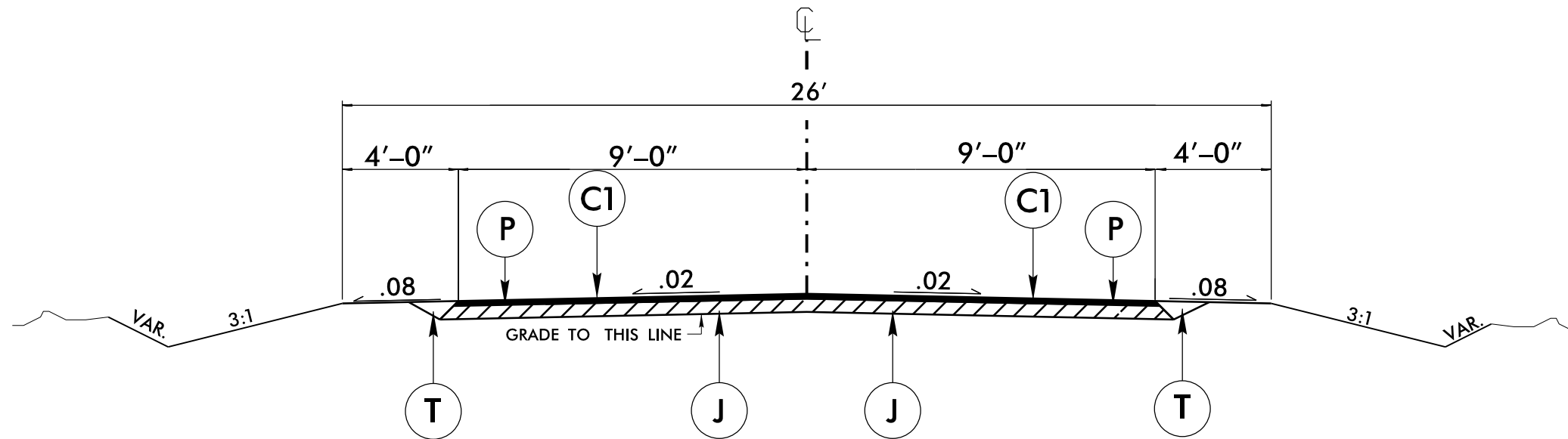
REVISIONS

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 Process - 41 - Initial.dwg

# PAVEMENT SCHEDULE

C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
J	PROP. APPROX. 6" OF AGGREGATE BASE COURSE
P	PRIME COAT TO BE APPLIED AT AN AVERAGE RATE 0.35 GAL. PER SQ. YD.
T	EARTH MATERIAL.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



## TYPICAL SECTION NO. 1

-L- STA. 10+59.19 TO STA. 40+08.74



**DIVISION OF HIGHWAYS**  
**STATE OF NORTH CAROLINA**

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## ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) 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 HOW ZONES.

8/17/99

POT Sta. 10+00  
BEGIN PROJECT

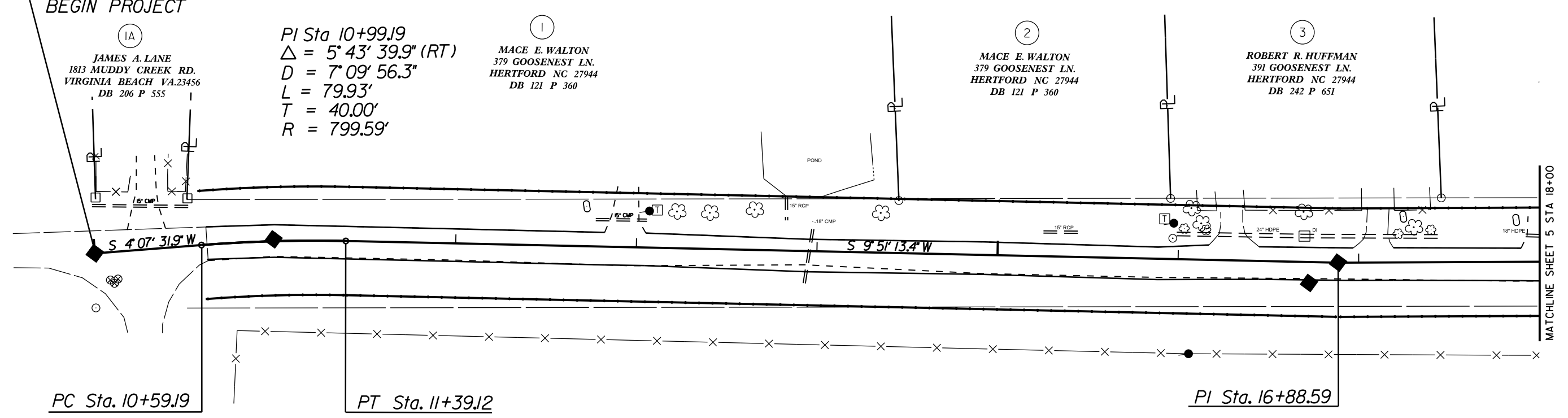
(IA)  
JAMES A. LANE  
1813 MUDDY CREEK RD.  
VIRGINIA BEACH VA. 23456  
DB 206 P 555

PI Sta 10+99.19  
 $\Delta = 5^{\circ} 43' 39.9''$  (RT)  
 $D = 7^{\circ} 09' 56.3''$   
 $L = 79.93'$   
 $T = 40.00'$   
 $R = 799.59'$

(1)  
MACE E. WALTON  
379 GOOSENEST LN.  
HERTFORD NC 27944  
DB 121 P 360

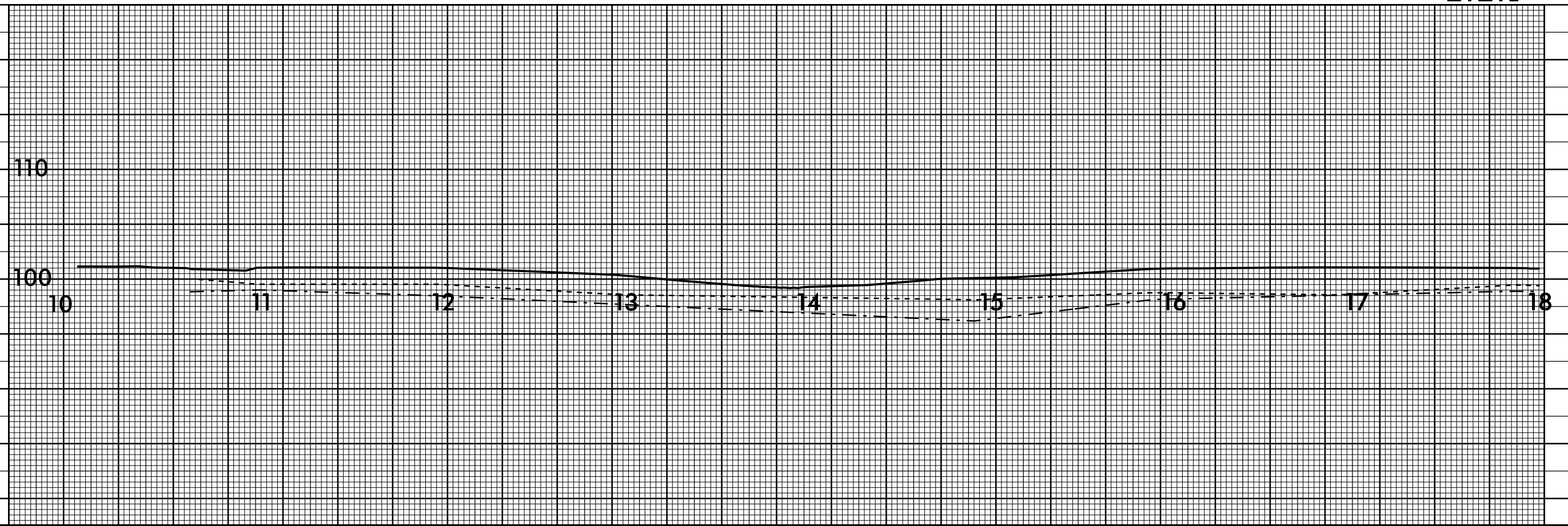
(2)  
MACE E. WALTON  
379 GOOSENEST LN.  
HERTFORD NC 27944  
DB 121 P 360

(3)  
ROBERT R. HUFFMAN  
391 GOOSENEST LN.  
HERTFORD NC 27944  
DB 242 P 651



EXISTING PROFILE

LEFT DITCH



REVISIONS

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④  
**RUSSELL E. MOORE JR.**  
 203 NIXON BEACH RD.  
 APO AE, 27932  
 DB 127 P 163

⑤  
**MICHEAL C. FELTS**  
 114 OSPREY LN.  
 HERTFORD NC 27944  
 DB 235 P 528

⑥  
**CHARLES A. KIPP**  
 409 GOOSENEST LN.  
 HERTFORD, NC 27944  
 DB 162 P 851

⑦  
**JAMES J. JELLISON**  
 PO BOX 265  
 HERTFORD, NC 27944  
 DB 174 P 356

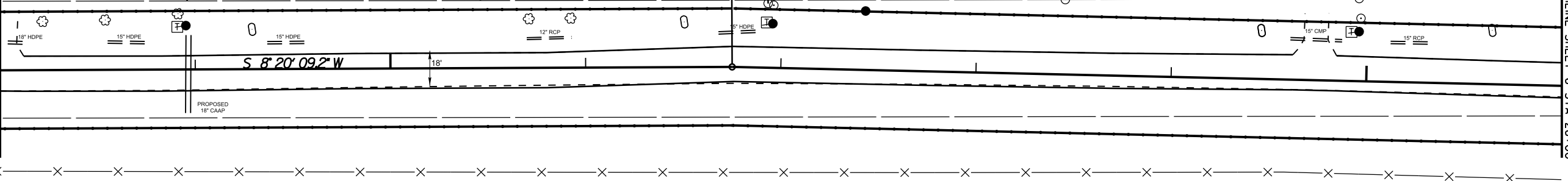
⑧  
**ONLEY E. ROGERS**  
 423 GOOSE NEST LN.  
 HERTFORD NC 27944  
 DB 209 P 418

⑨  
**NORMAN P. SCOTT**  
 427 GOOSE NEST LN.  
 HERTFORD NC 27944  
 DB 185 P 379

PI Sta. 21+75.06

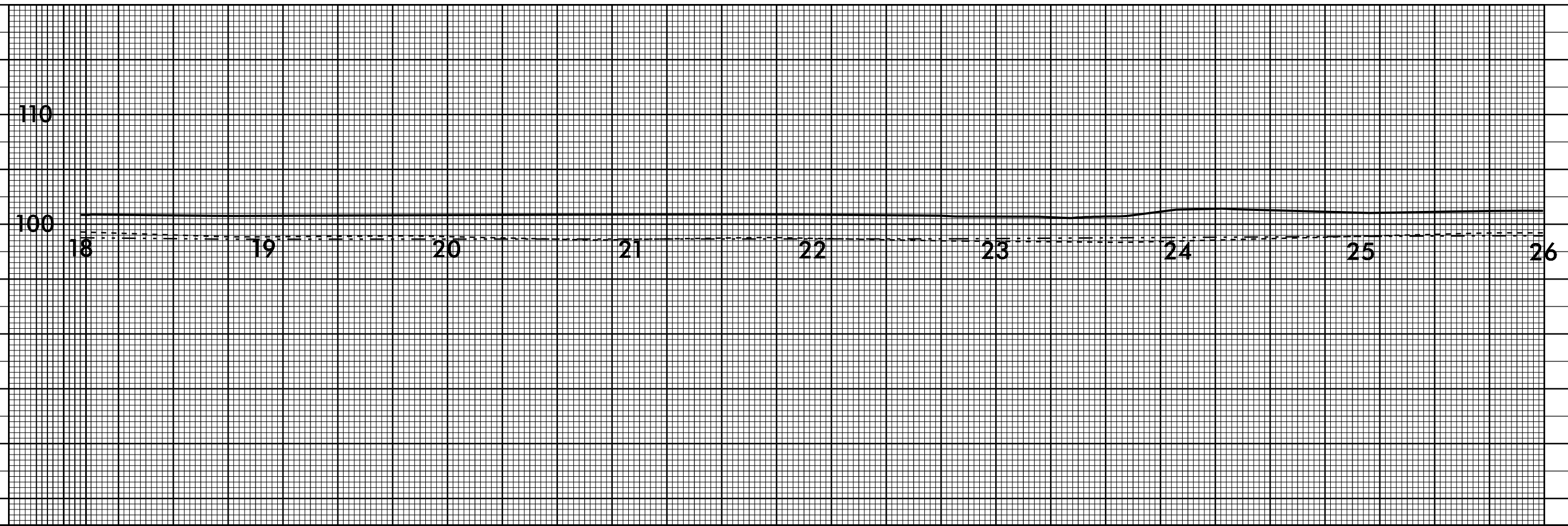
MATCHLINE SHEET 4 STA 18+00

MATCHLINE SHEET 6 STA 26+00



EXISTING PROFILE

LEFT DITCH



REVISIONS

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 11/11/2012 11:54

30

PI Sta. 30+65.29

⑩  
**JAMES P. SIMONS**  
 140 HIGHLAND ST.  
 BROCKTON MA. 02401  
 DB 107 P 243

⑪  
**WILLIAM A. GRYDER**  
 2268 MILL RD.  
 POWHATAN VA. 23139  
 DB 166 P 171

⑫  
**MELVIN COOPER JR.**  
 PO BOX 1008  
 ELIZABETH CITY NC 27906  
 DB 233 P 263

⑬  
**JOHN THOMAS STYRON JR.**  
 451 GOOSE NEST LN.  
 HERTFORD NC 27944  
 DB 156 P 202

⑭  
**DAVID A. DENNIS**  
 1360 WAKEFIELD CIR.  
 VA. BEACH VA. 23455  
 DB 235 P 206

MATCHLINE SHEET 5 STA 26+00

MATCHLINE SHEET 7 STA 34+00

S 9°54' 30.2" W

S 8°05' 40.5" W

PROPOSED  
 12" RCP

12" RCP

15" C&G

12" C&G

15" RCP

15" RCP

EXISTING PROFILE

LEFT DITCH

110

100

26

27

28

29

30

31

32

33

34

REVISIONS

20-JUN-2012 09:25  
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PI Sta 34+51.00  
 $\Delta = 4^{\circ} 46' 29.9''$  (RT) 35  
 D = 5' 23' 06.7"  
 L = 88.67'  
 T = 44.36'  
 R = 1,063.95' (15)  
 DAN A. SMOYER  
 320 UNION ST.  
 NEWTON PA. 18940  
 DB 128 P 246

(16)  
 WILLIAM LEDDY  
 410 DEER PT. DR.  
 GULF BREEZE FLA. 32561-4533  
 DB 105 P 799

(17)  
 ANTOINETTE HINES BERGER  
 475 GOOSE NEST LN.  
 HERTFORD NC 27944  
 DB 196 P 848

(18)  
 JEFFEREY L. BENSON  
 2170 JOSHUA LN.  
 SUFFOLK VA. 23434-7428  
 DB 200 P 859

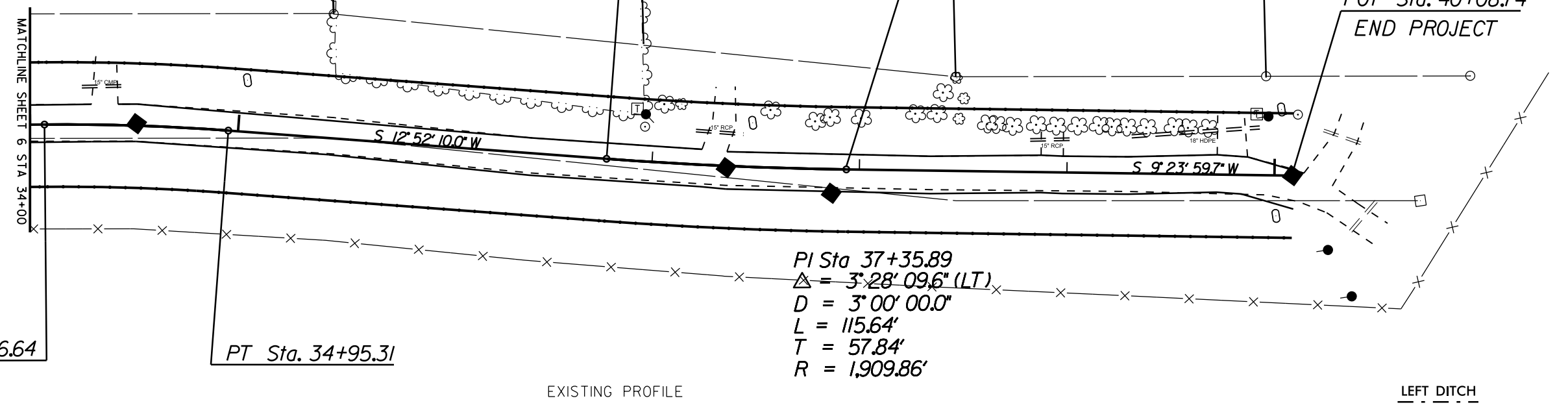
(19)  
 CAN NGUYEN  
 233 W. MORELAND AVE.  
 HATBORO PA. 19040  
 DB 207 P 862

PC Sta. 36+78.05

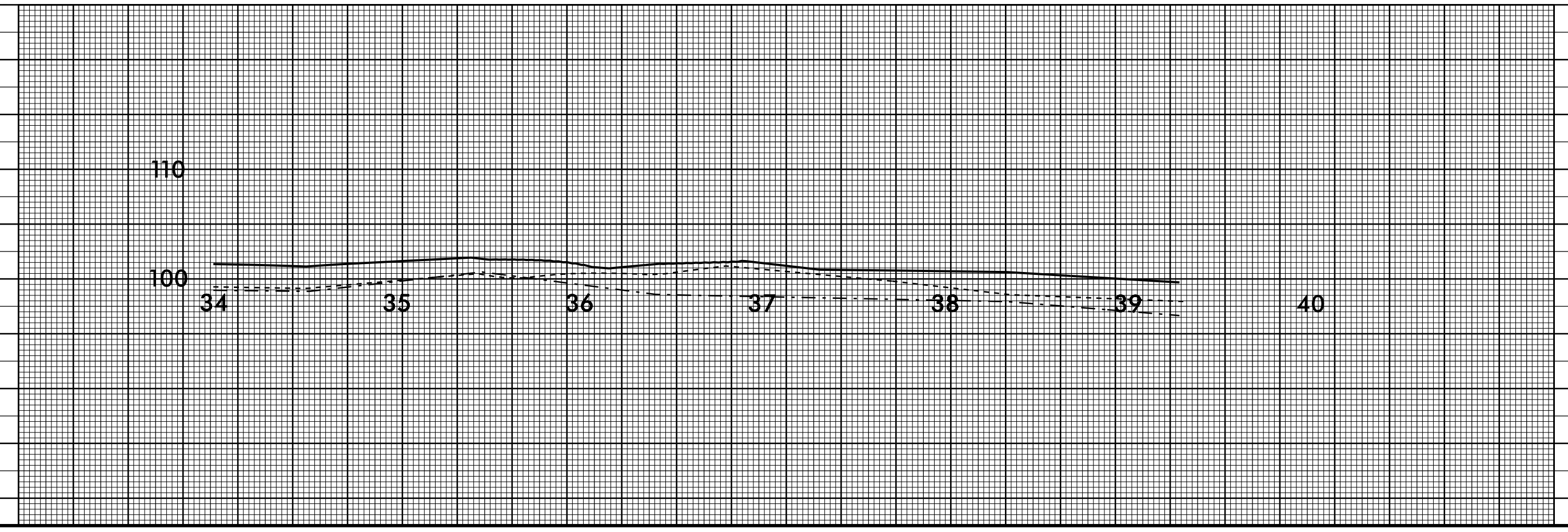
PT Sta. 37+93.70

40

POT Sta. 40+08.74  
 END PROJECT



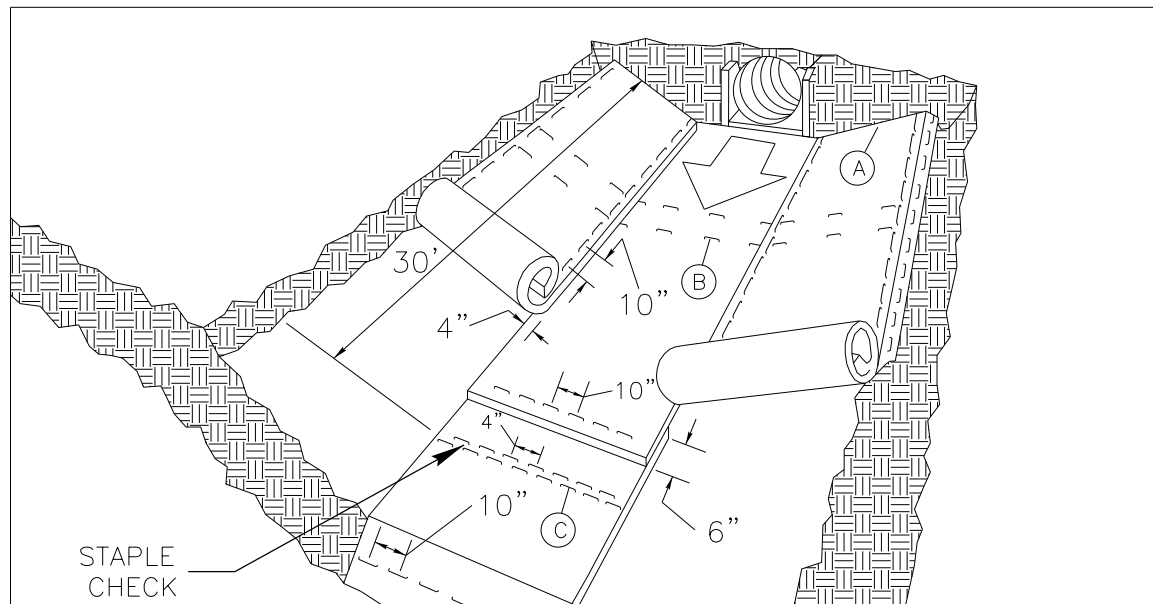
REVISIONS



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# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

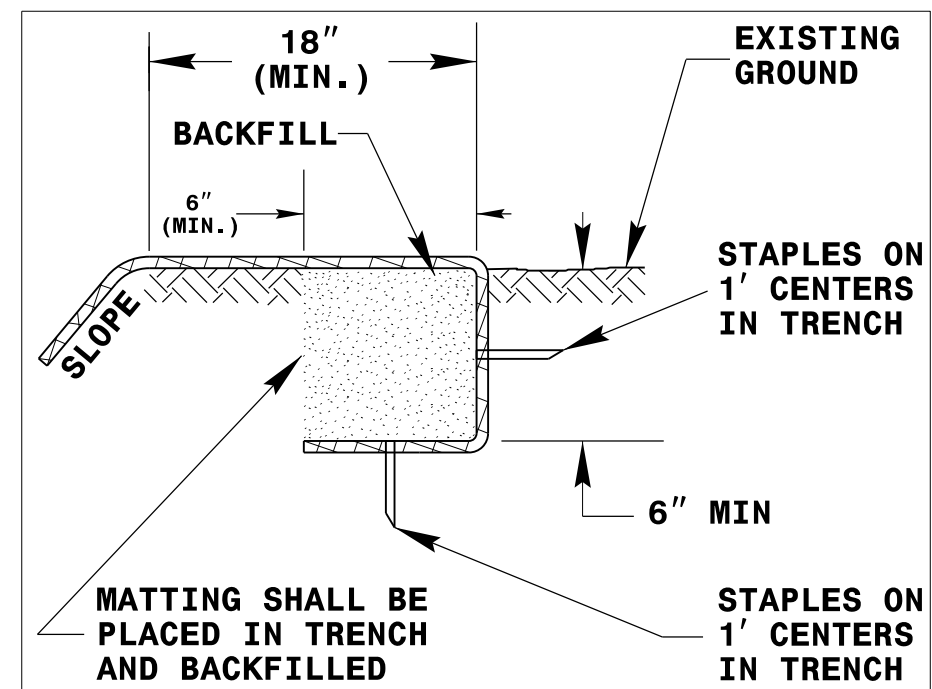
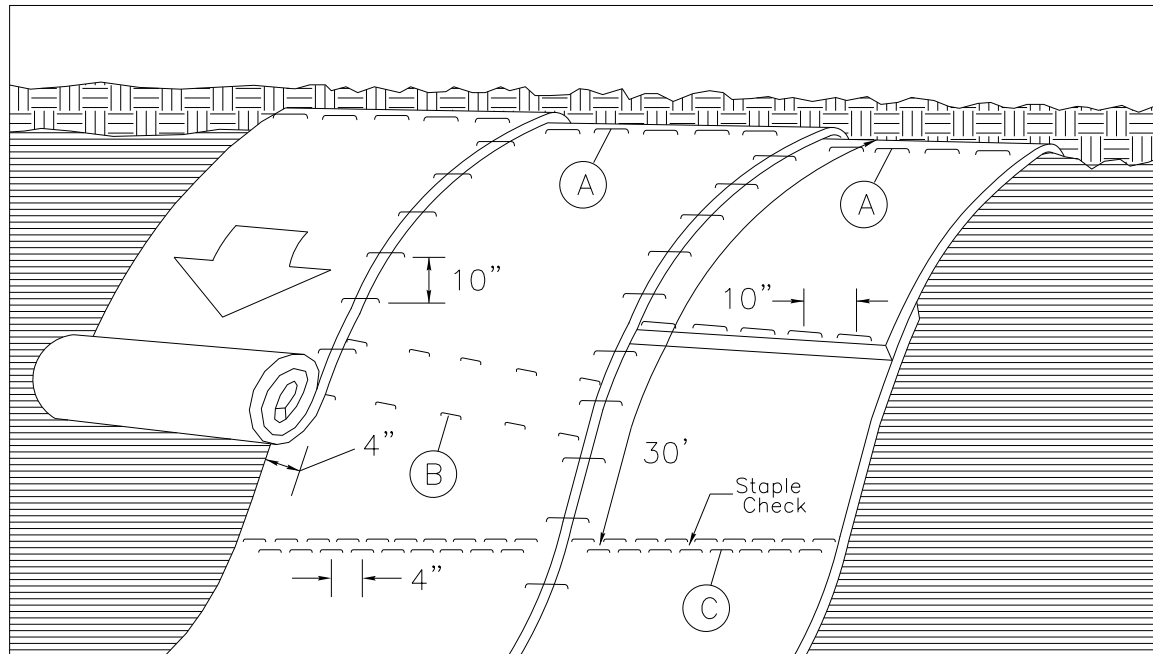


DIAGRAM (A)



**MATTING ON SLOPES**

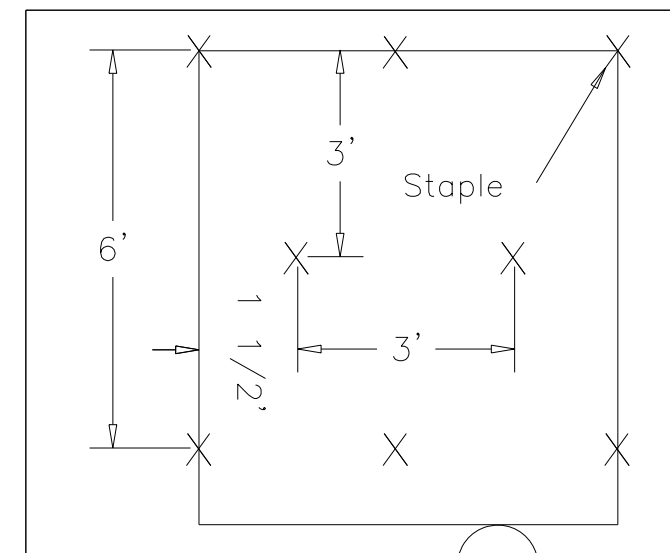


DIAGRAM B

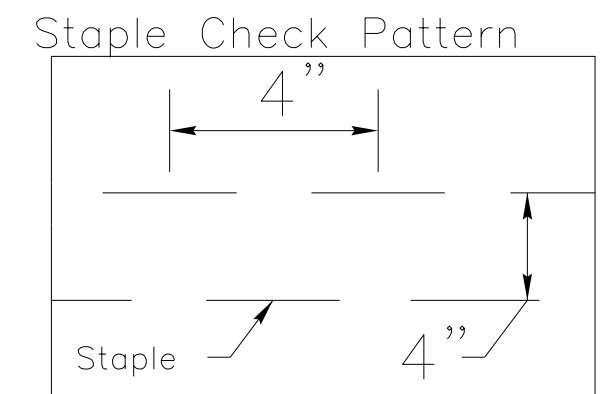


DIAGRAM (C)

**NOTES:**

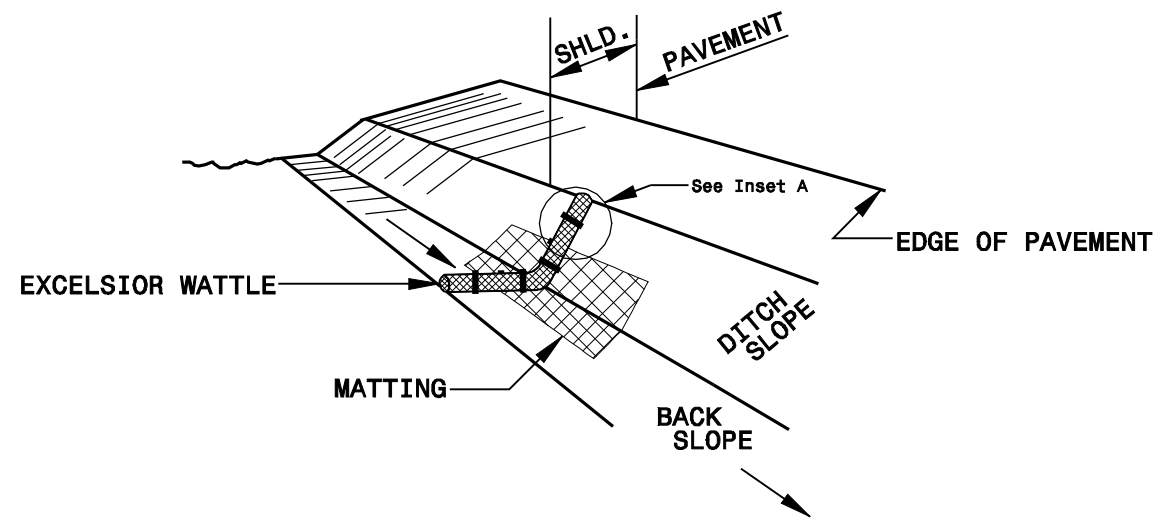
THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

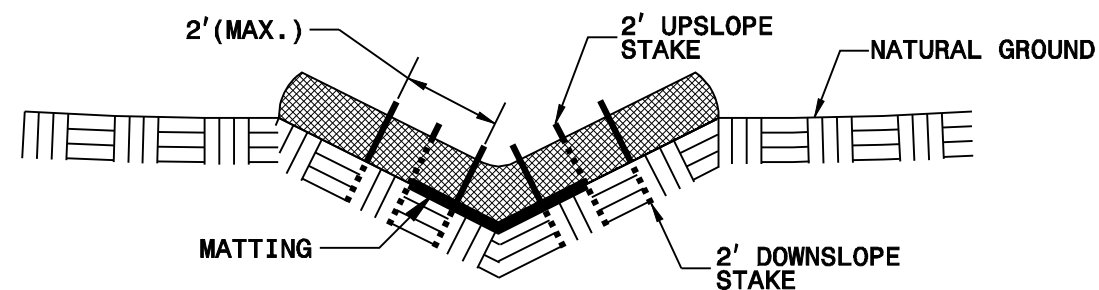
NOT TO SCALE

PROJECT REFERENCE NO. X-XXXX		SHEET NO. EC-26	
RWY SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

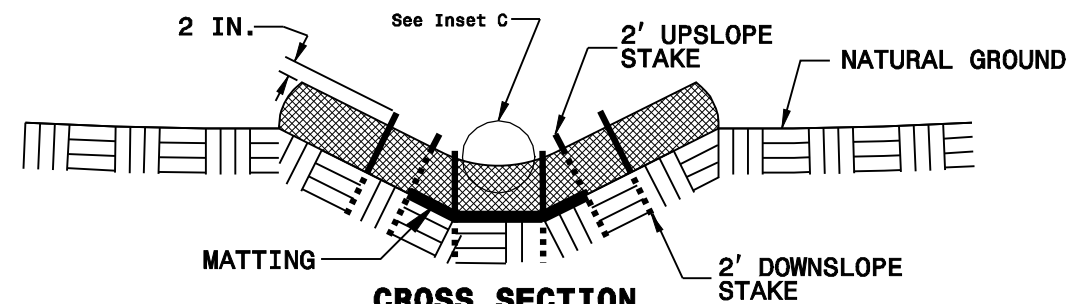
# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION  
VEE DITCH**



**CROSS SECTION  
TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

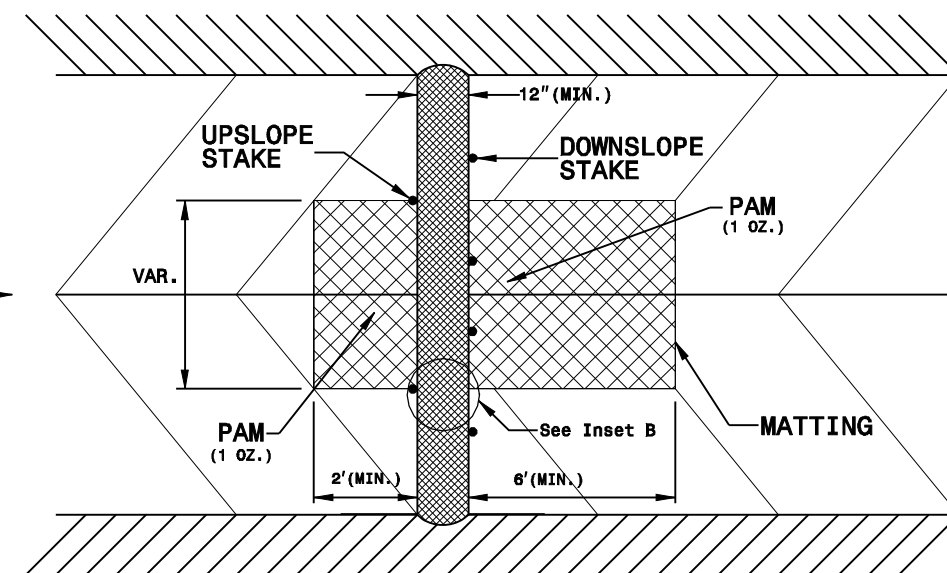
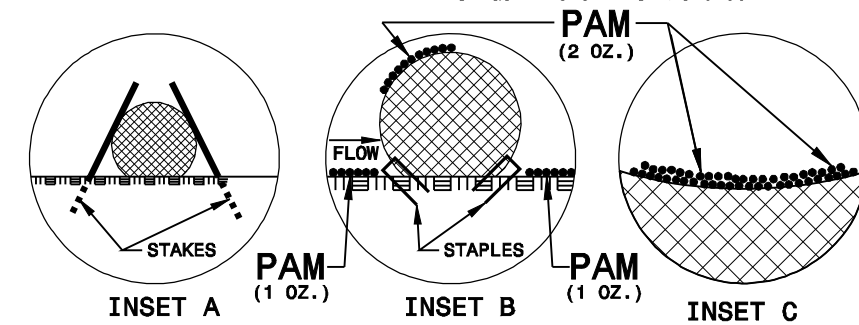
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.



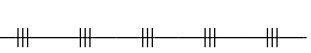
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

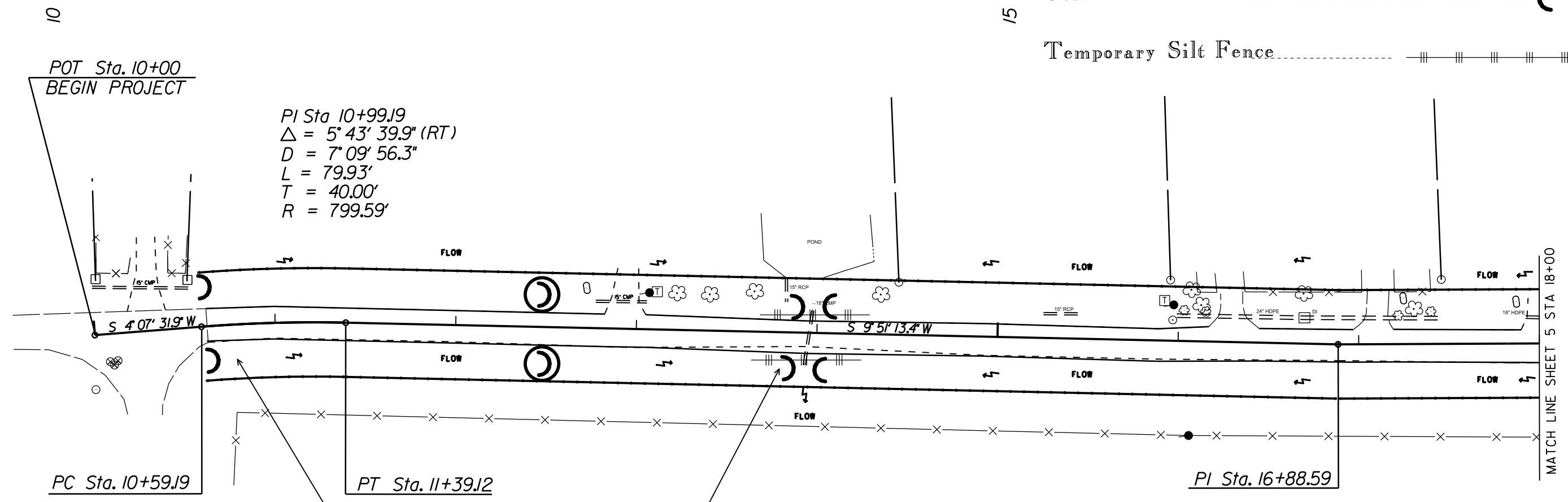
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



**TOP VIEW**

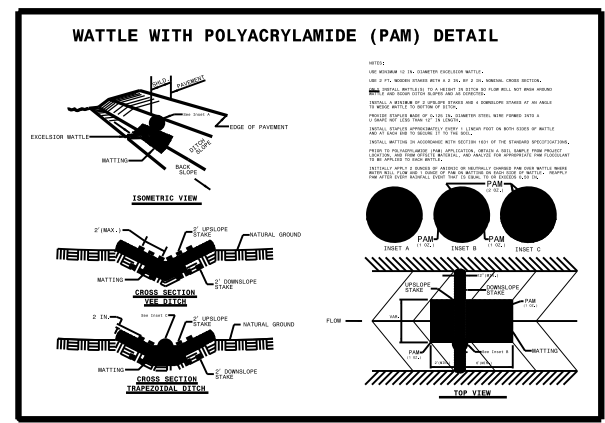
# EROSION CONTROL PLAN

- Coir Fiber Wattle with PAM ..... 
- Coir Fiber Wattle ..... 
- Temporary Silt Fence ..... 



PI Sta 10+99.19  
 $\Delta = 5^{\circ} 43' 39.9''$  (RT)  
 $D = 7^{\circ} 09' 56.3''$   
 $L = 79.93'$   
 $T = 40.00'$   
 $R = 799.59'$

**INSTALL MATTING FOR  
 EROSION CONTROL  
 STA. 10+64 - STA. 13+95 (RT)**



8/17/99  
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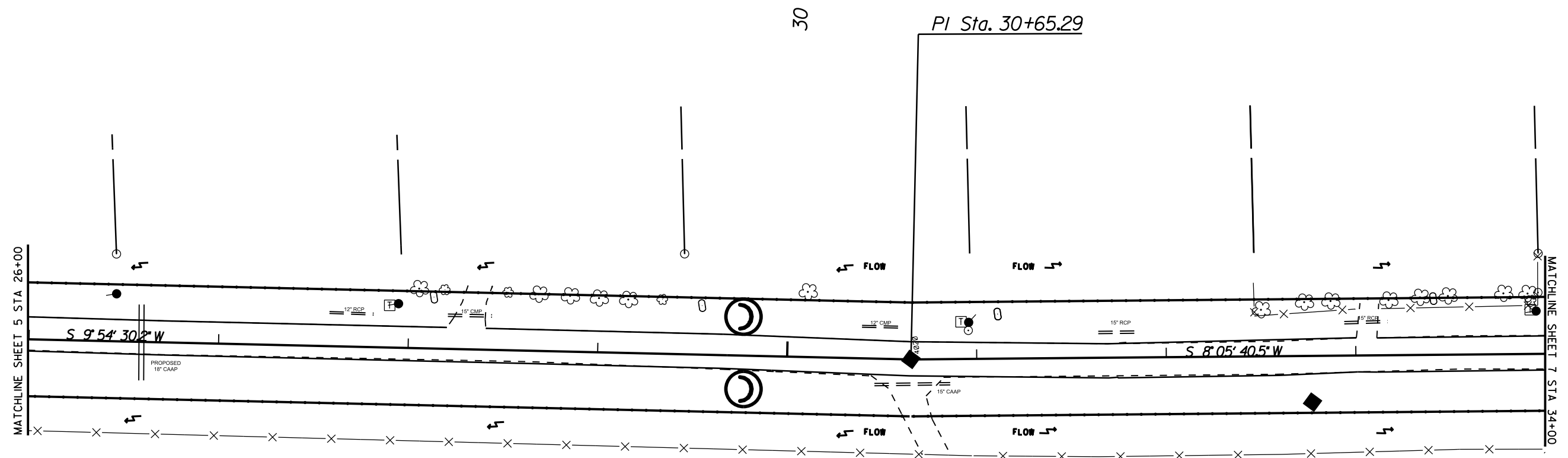
MATCH LINE SHEET 5 STA 18+00

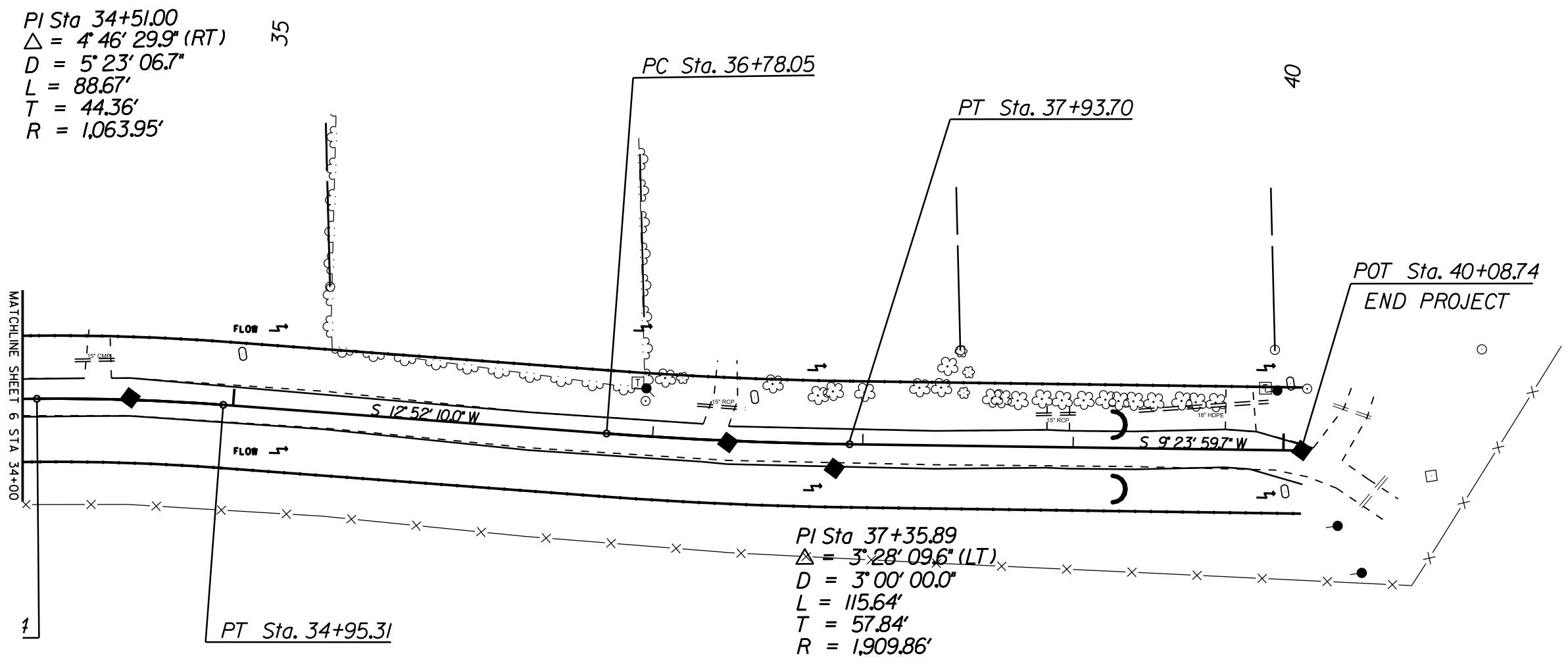




8/17/99

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8/17/99  
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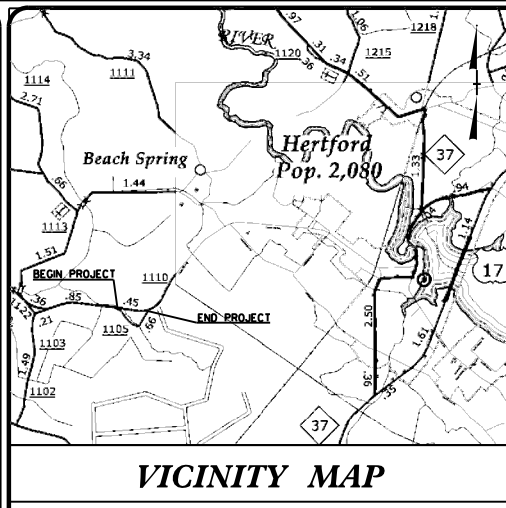
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N.C.	1C.072065	1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
1C.072065		MAIN.



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PERQUIMANS COUNTY**

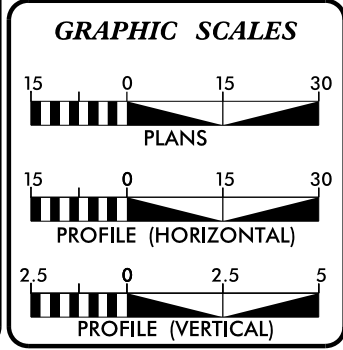
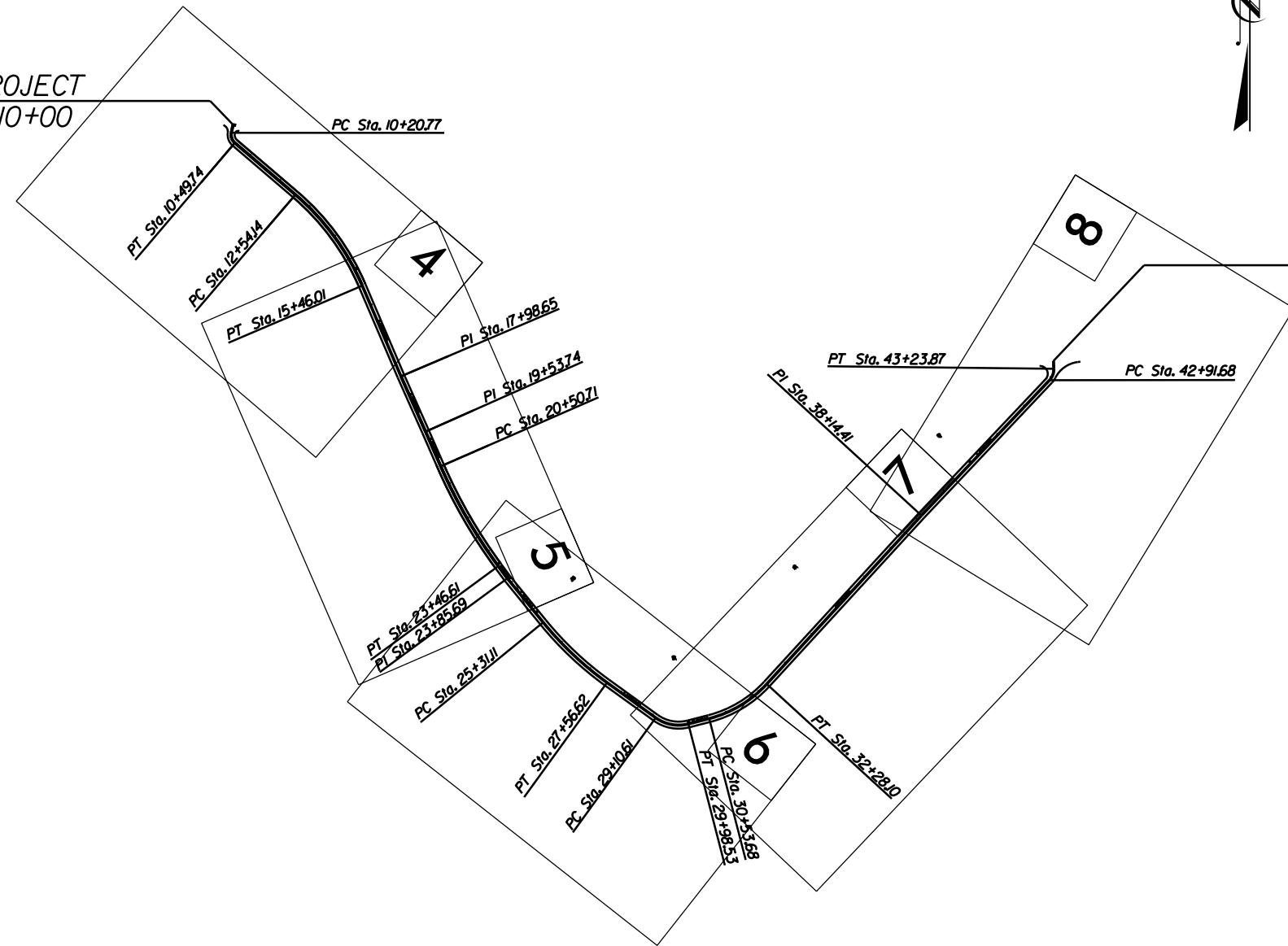
LOCATION: SR 1105, OFF OF SR 1110 OUTSIDE OF HERTORD  
TYPE OF WORK: GRADE, DRAIN, BASE AND PAVE



CONTRACT: DA000133 WBS ELEMENT: 1C.072065

BEGIN PROJECT  
POT Sta. 10+00

END PROJECT  
POT Sta. 43+43.99



PROJECT LENGTH

LENGTH OF ROADWAY PROJECT:	0.63 MILES
TOTAL LENGTH OF STATE PROJECT:	0.63 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
1929 North Road Street, Elizabeth City, NC 27909

2012 STANDARD SPECIFICATIONS

LETTING DATE: \_\_\_\_\_

Gretchen A. Byrum, P.E.  
DISTRICT ENGINEER

Brent W. Bass  
ASSISTANT DISTRICT ENGINEER



22-JUN-2012 10:21 \\dicad257086\dipr\projects\brinnfarm\brinnlevels\958.Rdy\_tsh.dgn bwbass AT DICAD248189

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF PIPE QUANTITIES
3-B	STABILIZATION DETAIL
4 THRU 8	PLAN / PROFILE SHEETS
EC-1 THRU EC-8	EROSION CONTROL PLANS

GENERAL NOTES:  
2012 SPECIFICATIONS

GRADE LINE:  
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE Albemarle EMC.

Piedmont Gas, Embarq Telephone, Mediacom Cable &

Perquimans County Water Dept.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
---------	-------

DIVISION 2 - EARTHWORK

225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement

DIVISION 3 - PIPE CULVERTS

300.01	Method of Pipe Installation - Method 'A'
310.10	Driveway Pipe Construction

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method 1
--------	---

DIVISION 8 - INCIDENTALS

848.02	Driveway Turnout - Radius Type
876.02	Guide for Rip Rap at Pipe Outlets

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

# CONVENTIONAL PLAN SHEET SYMBOLS

## BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ IP
Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-MLB-
Proposed Wetland Boundary	-MLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ?

## BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	♀
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	⊕
Building	□
School	□
Church	⊕
Dam	▬

## HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	-JS-
Buffer Zone 1	-BZ 1-
Buffer Zone 2	-BZ 2-
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	⊥
Proposed Lateral, Tail, Head Ditch	▬
False Sump	◊

## RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

## RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	○
Proposed Right of Way Line with Concrete or Granite Marker	○
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Drainage / Utility Easement	-DUE-
Proposed Permanent Utility Easement	-PUE-
Proposed Temporary Utility Easement	-TUE-
Proposed Aerial Utility Easement	-AUE-
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

## ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-C-
Proposed Slope Stakes Fill	-F-
Proposed Curb Ramp	○
Curb Cut Future Ramp	○
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	▬

## VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	-----
Woods Line	-----

Orchard	○
Vineyard	□ Vineyard

## EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	□ CONC
Bridge Wing Wall, Head Wall and End Wall	□ CONC WW
MINOR:	
Head and End Wall	□ CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

## UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	□
H-Frame Pole	●
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

## TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	□
Telephone Pedestal	⊕
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	□
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

## WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

## TV:

TV Satellite Dish	⊕
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

## GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	----- A/G Gas

## SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

## MISCELLANEOUS:

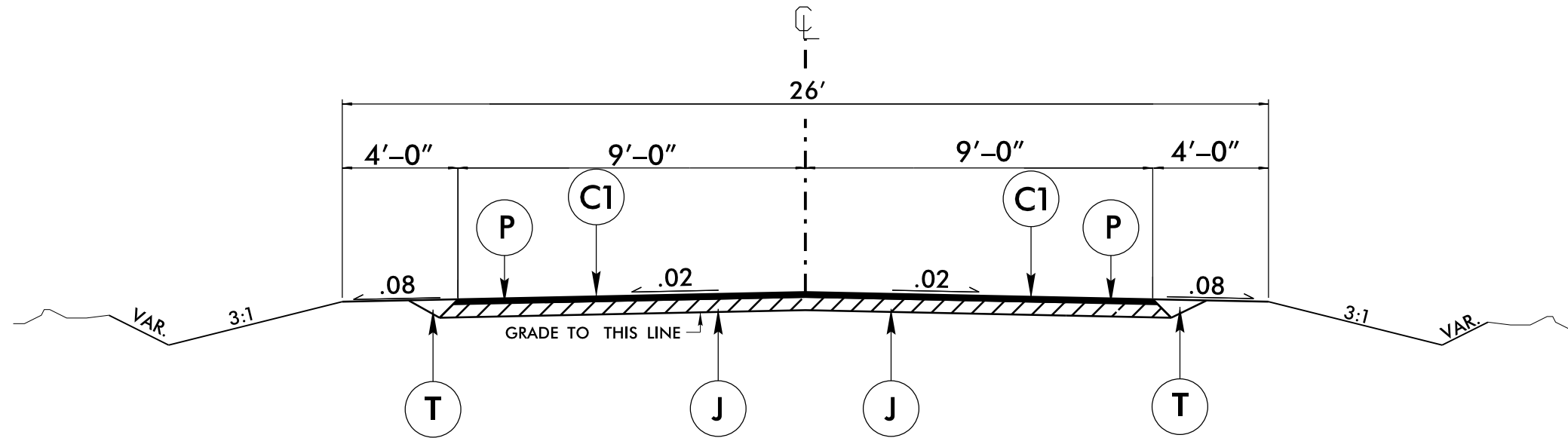
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.



# PAVEMENT SCHEDULE

C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
J	PROP. APPROX. 6" OF AGGREGATE BASE COURSE
P	PRIME COAT TO BE APPLIED AT AN AVERAGE RATE 0.35 GAL. PER SQ. YD.
T	EARTH MATERIAL.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



**TYPICAL SECTION NO. 1**  
 -L- STA. 10+00 TO STA. 43+43.99





DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

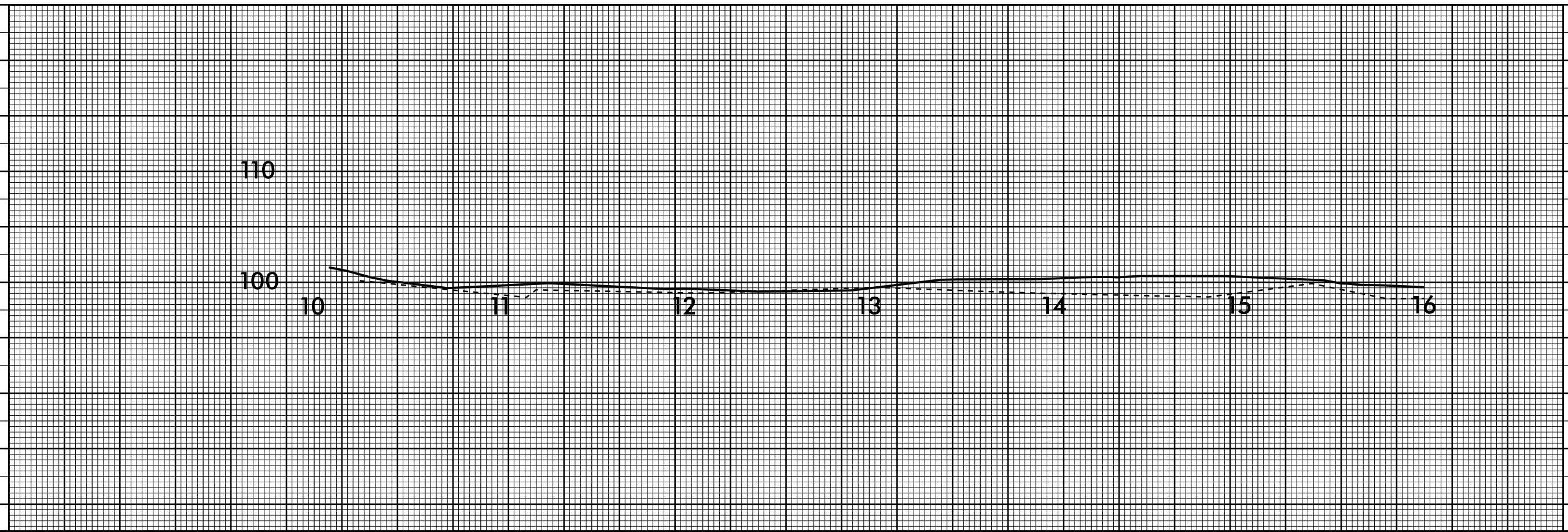
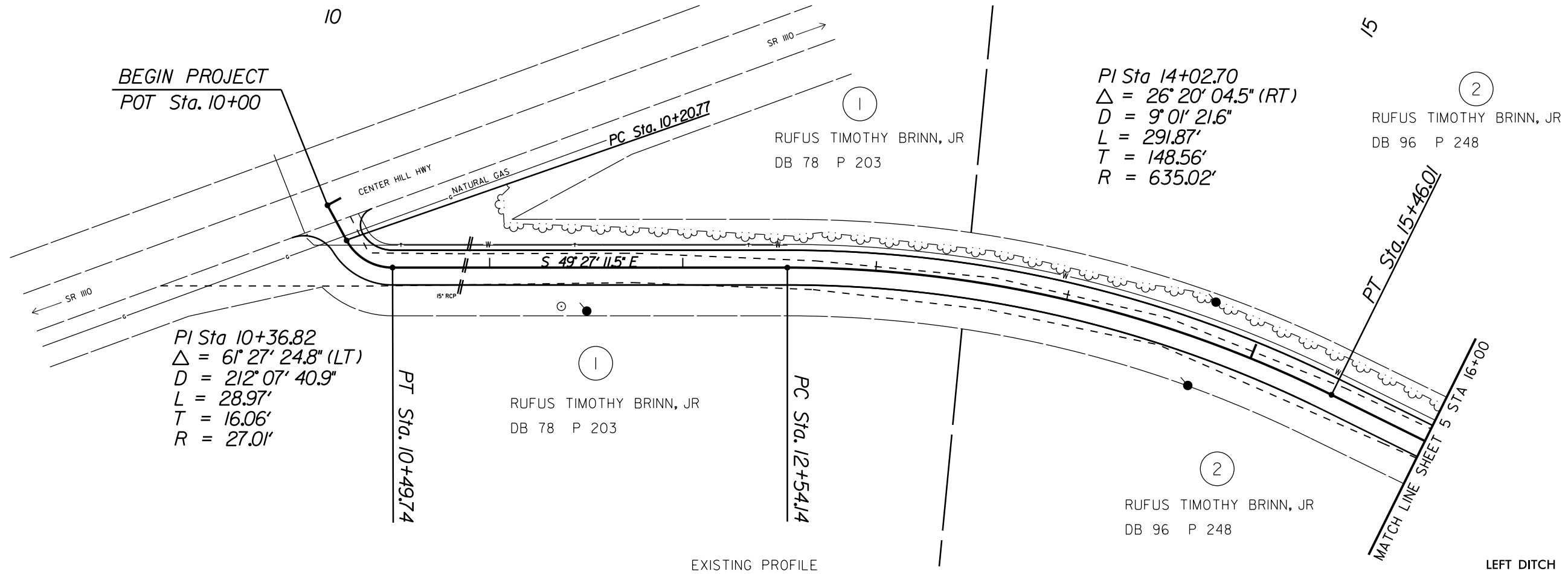
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## *SOIL STABILIZATION TIMEFRAMES*

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) 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 HOW ZONES.



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35

6

SUSAN HARRIS  
DB 192 P 691

PI Sta. 38+14.41

MATCH LINE SHEET 6 STA 31+00

PT Sta. 32+28.10

MATCH LINE SHEET 8 STA 39+00

GRADE TO DRAIN

GRADE TO DRAIN

N 42° 32' 20.4" E

0.4  
0.3  
0.2  
0.1  
0.0  
0.1  
0.2

18" RCP

18" RCP

18" RCP

5

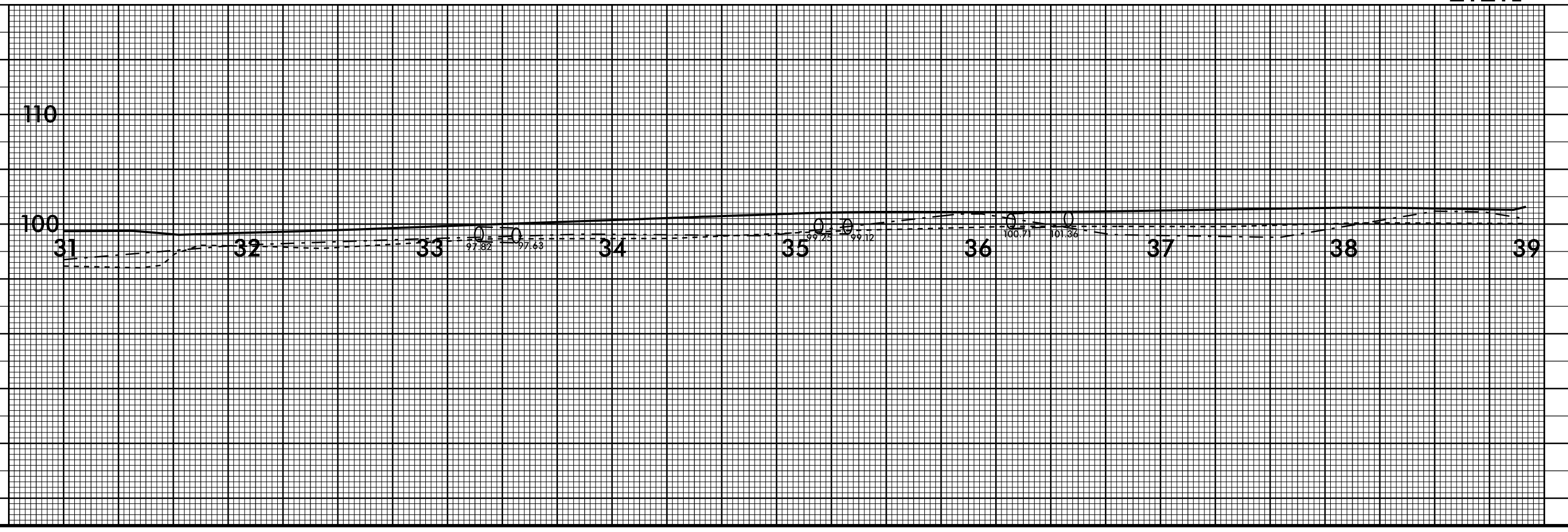
JAMES ELWOOD  
DOROTHY PERRY  
DB 99 P 307

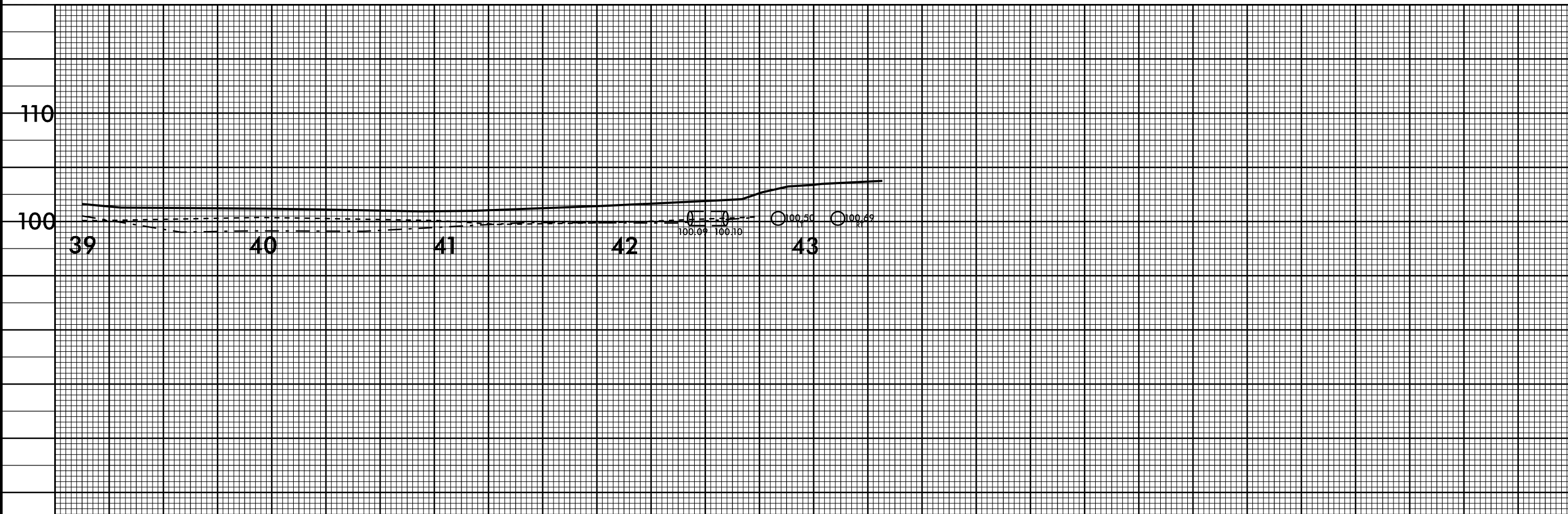
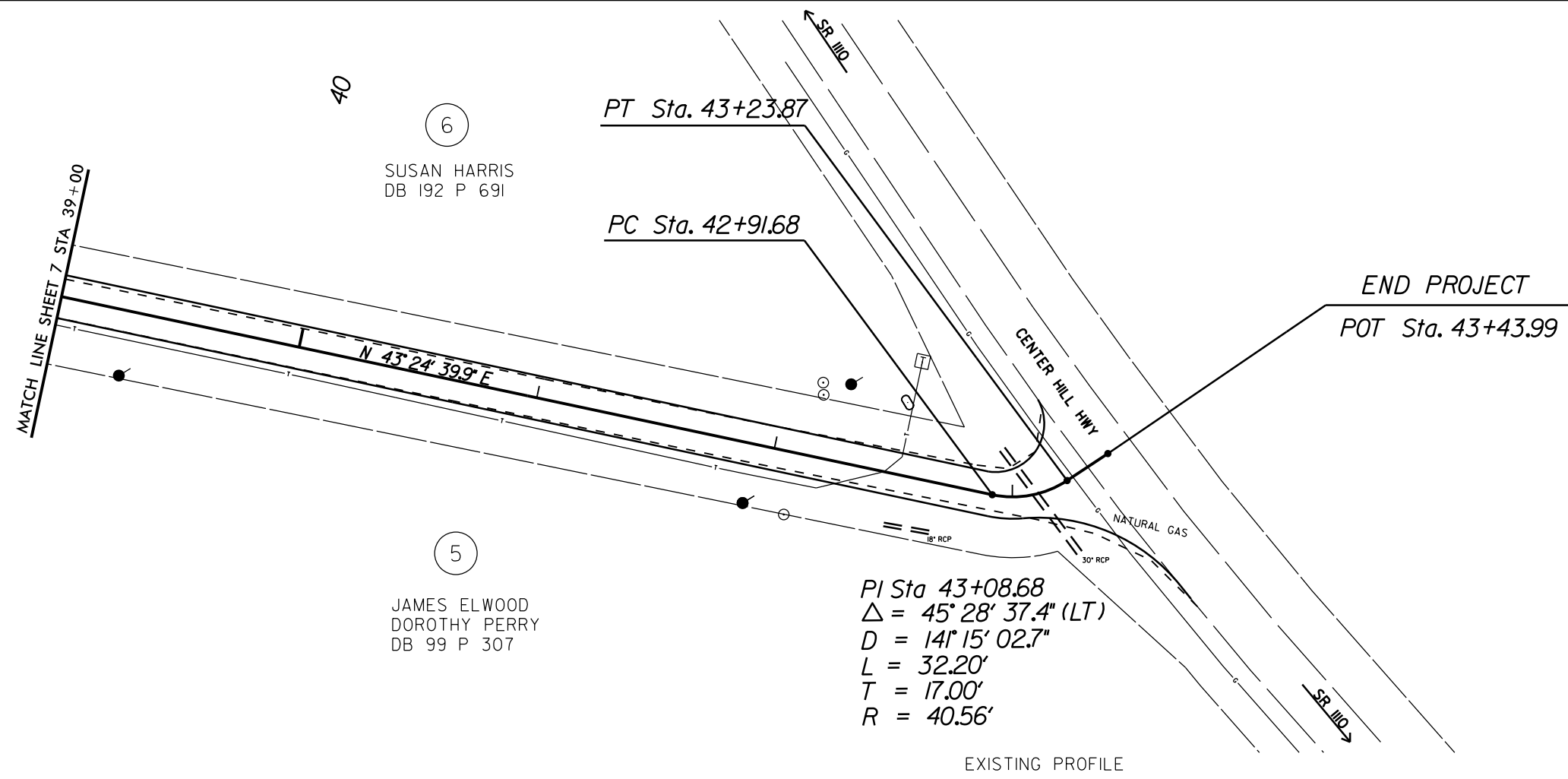
EXISTING PROFILE

LEFT DITCH

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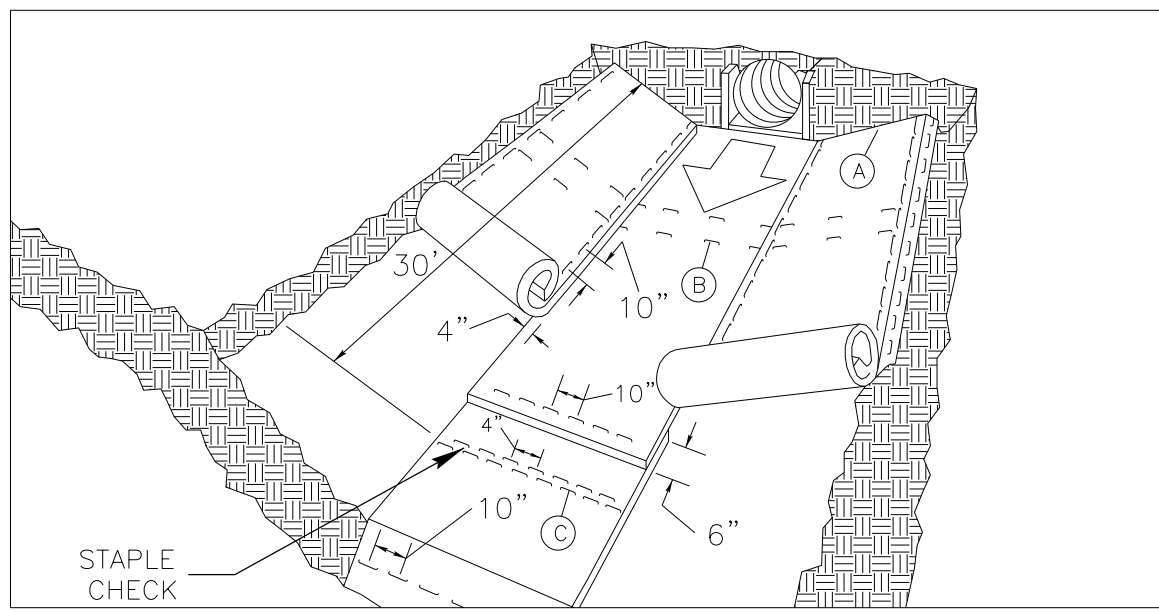


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# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

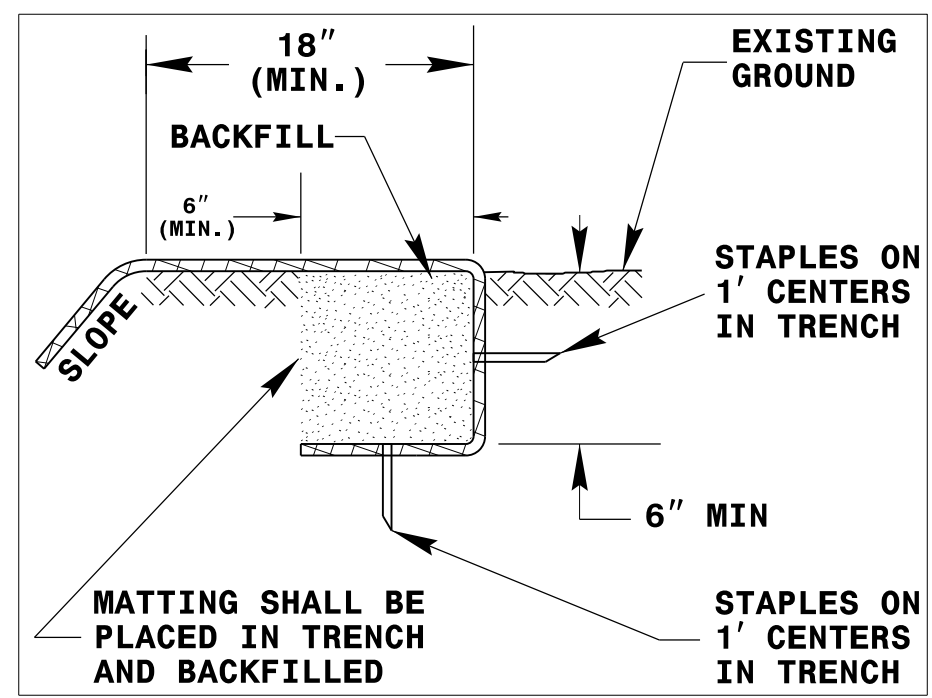
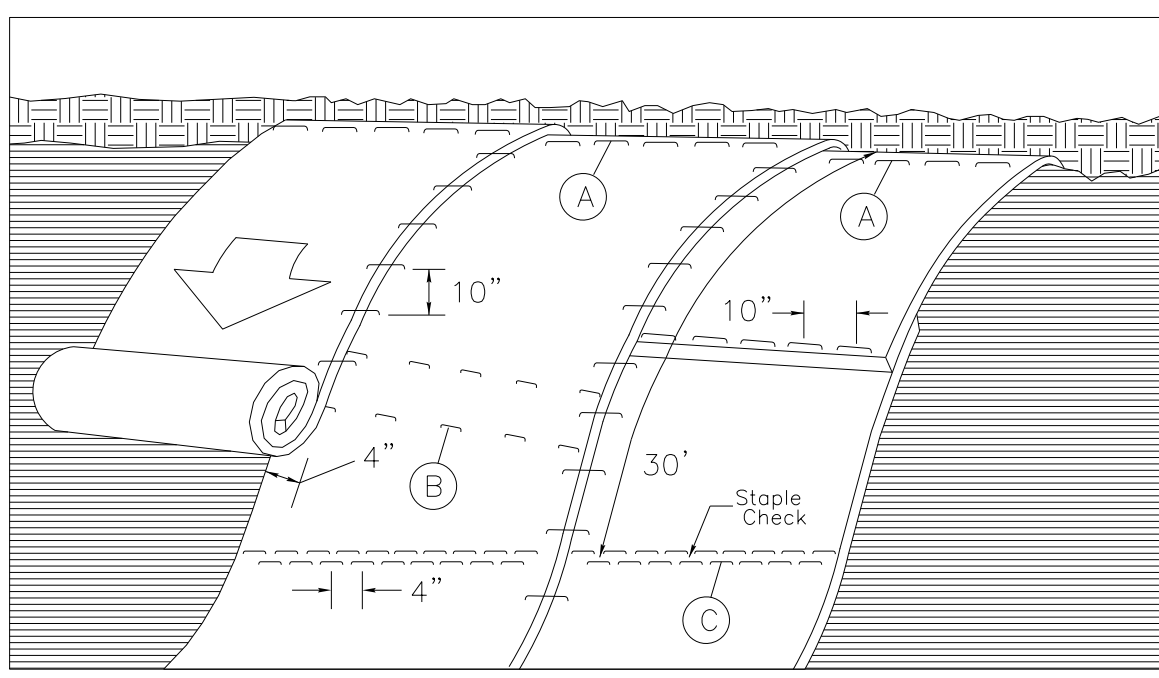


DIAGRAM (A)



**MATTING ON SLOPES**

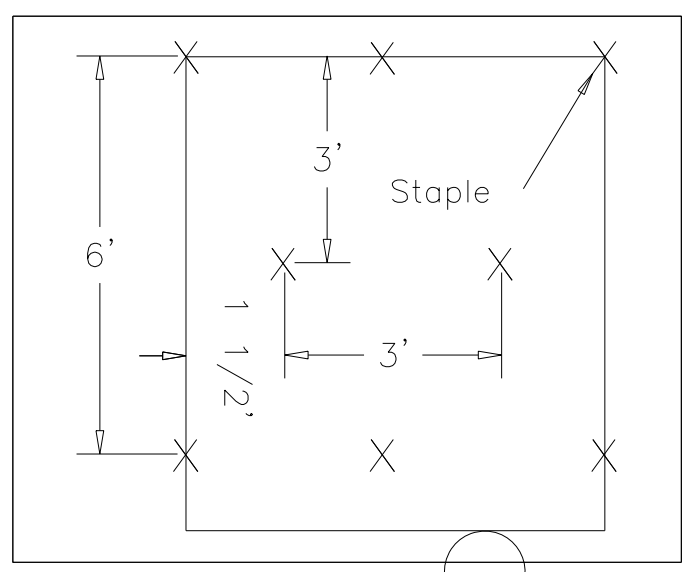


DIAGRAM B

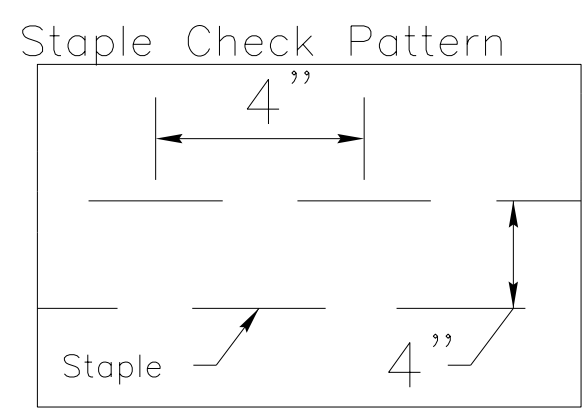


DIAGRAM (C)

**NOTES:**

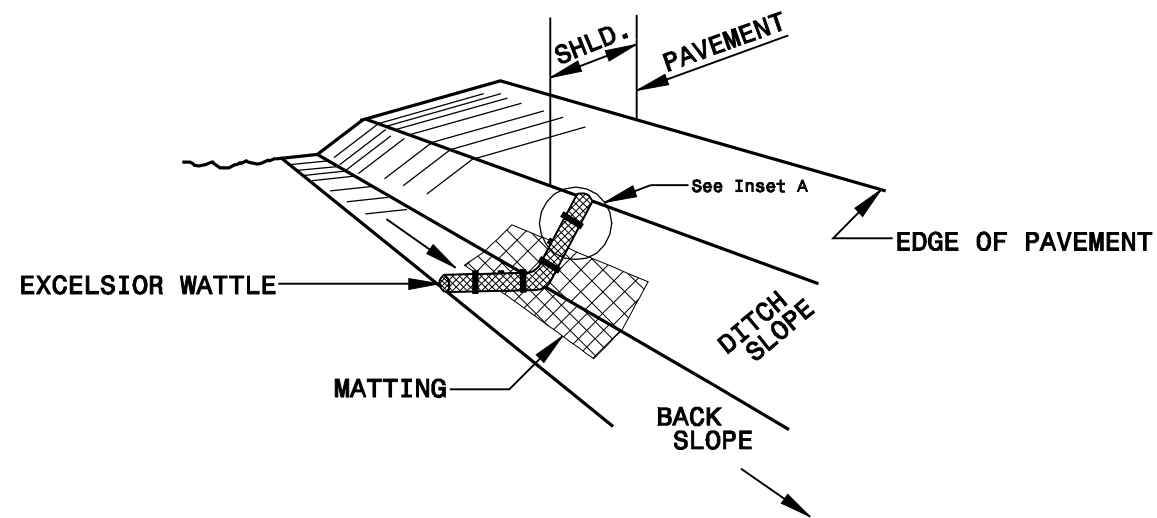
THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.  
 STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

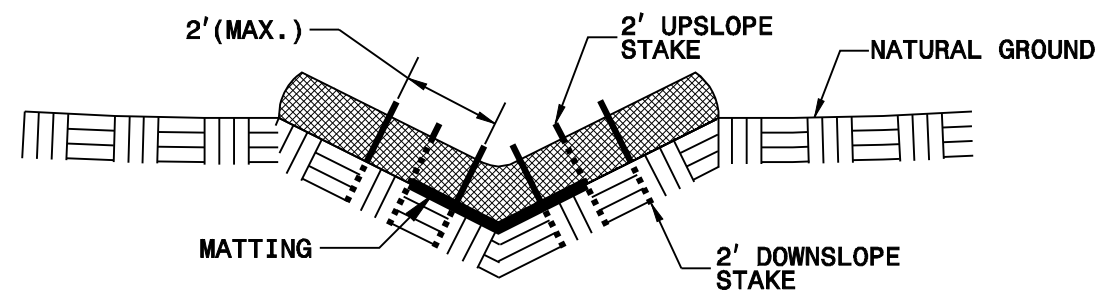


PROJECT REFERENCE NO. X-XXXX		SHEET NO. EC-26	
RWY SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

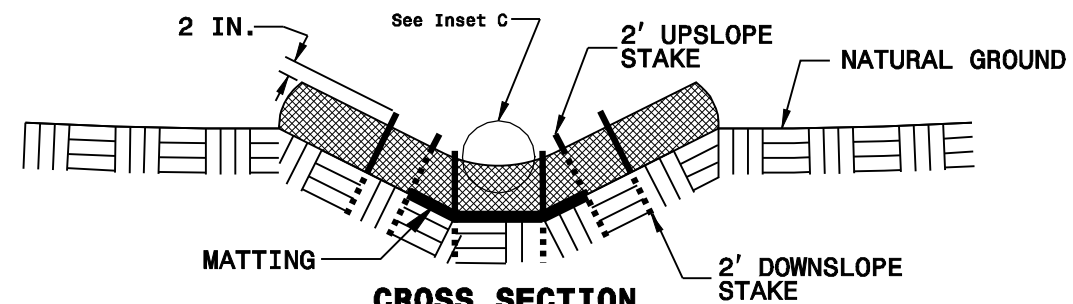
# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION  
VEE DITCH**



**CROSS SECTION  
TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

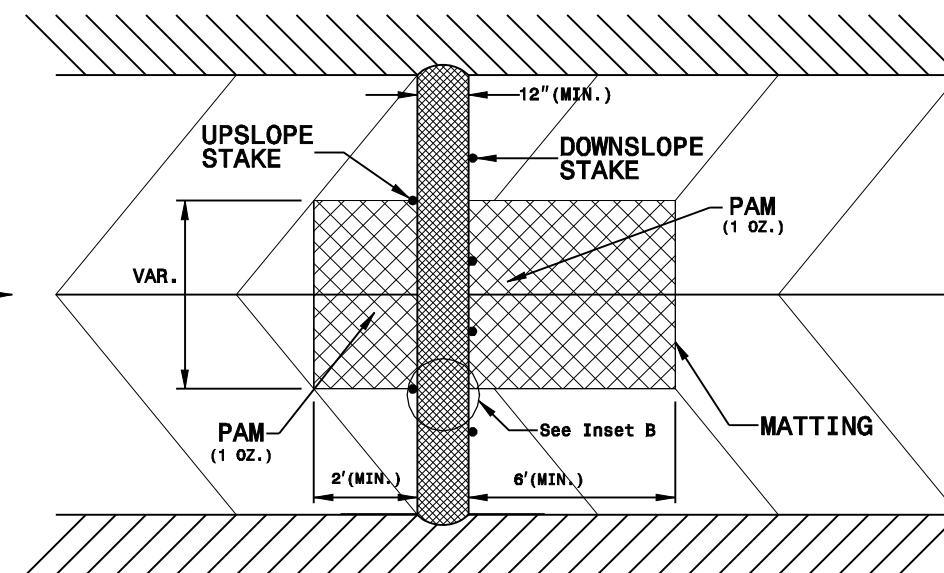
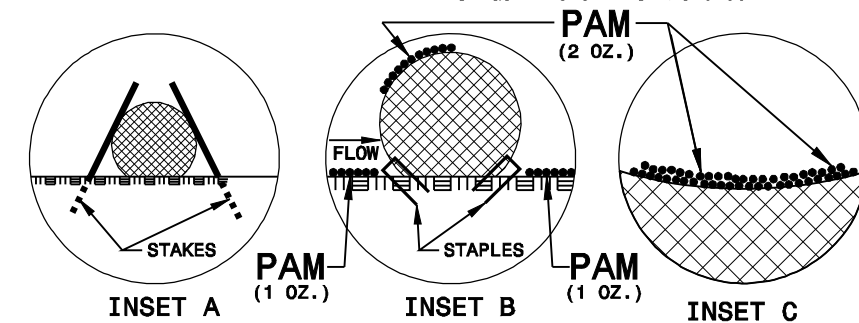
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

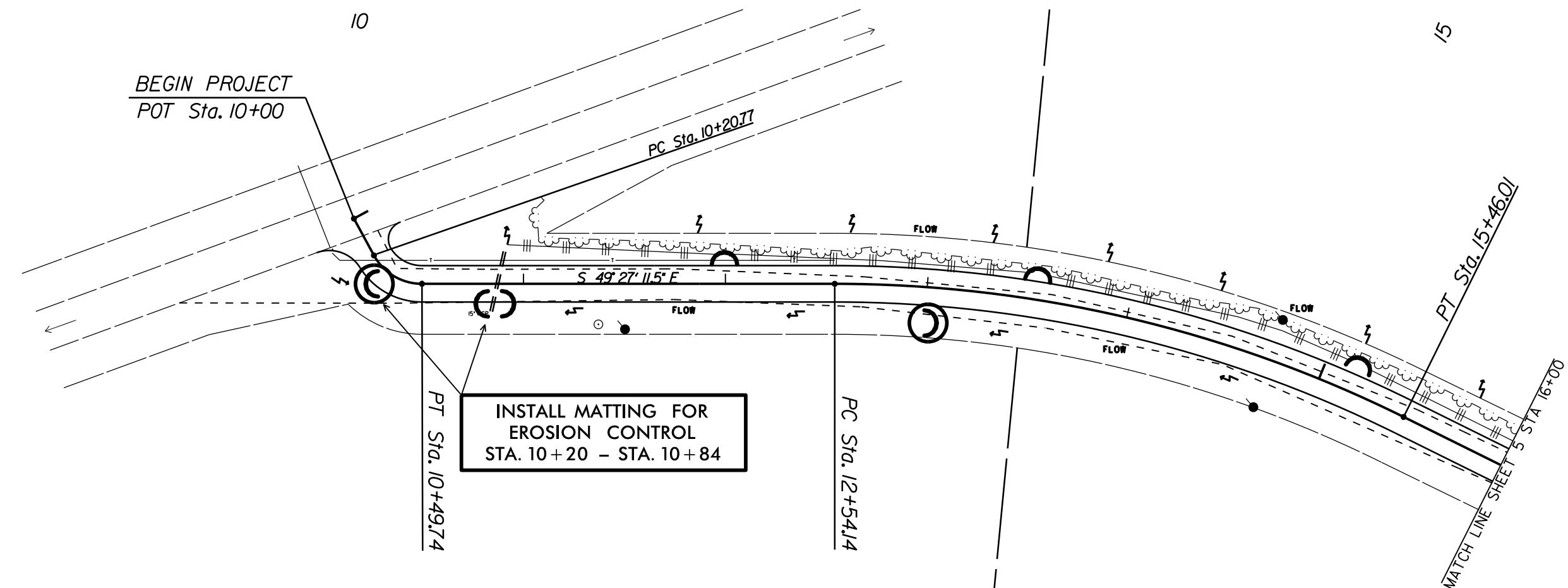
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



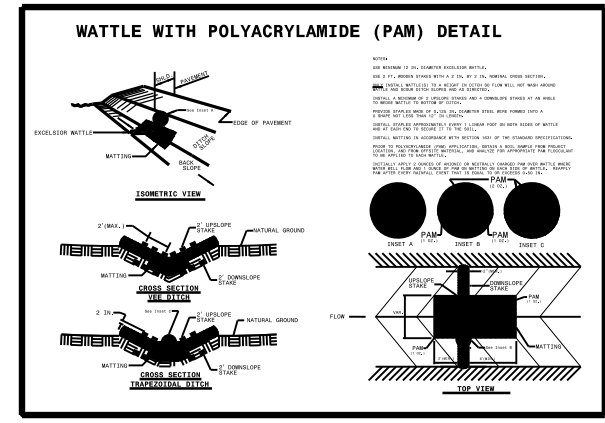
**TOP VIEW**

# EROSION CONTROL PLAN

- Coir Fiber Wattle with PAM ..... (C)
- Coir Fiber Wattle ..... (C)
- Temporary Silt Fence ..... ||| ||| ||| ||| |||

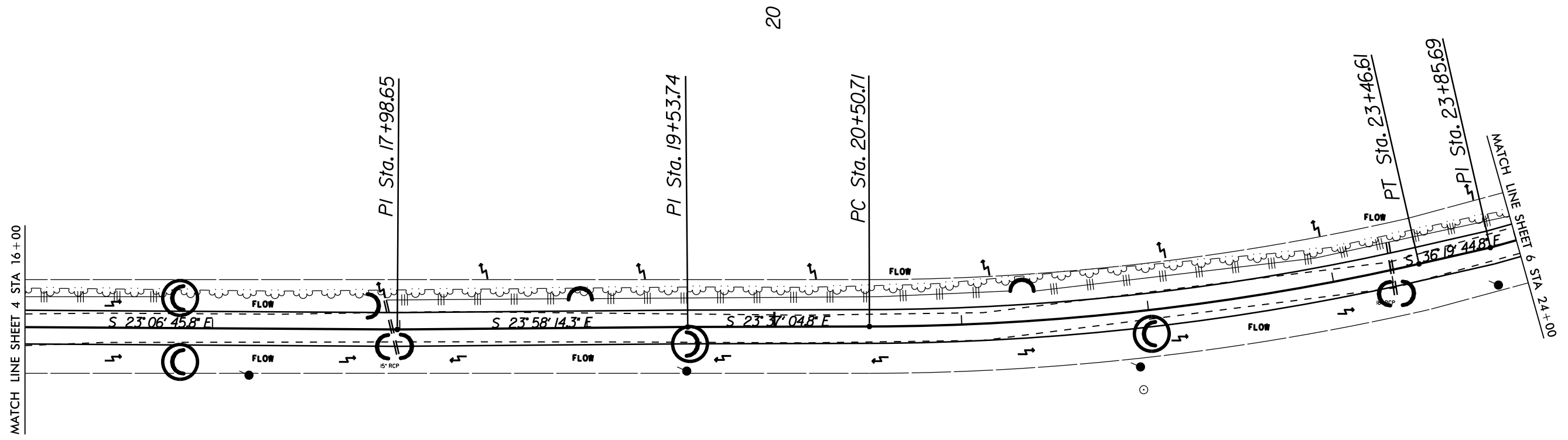


**INSTALL MATTING FOR  
EROSION CONTROL  
STA. 10+20 - STA. 10+84**



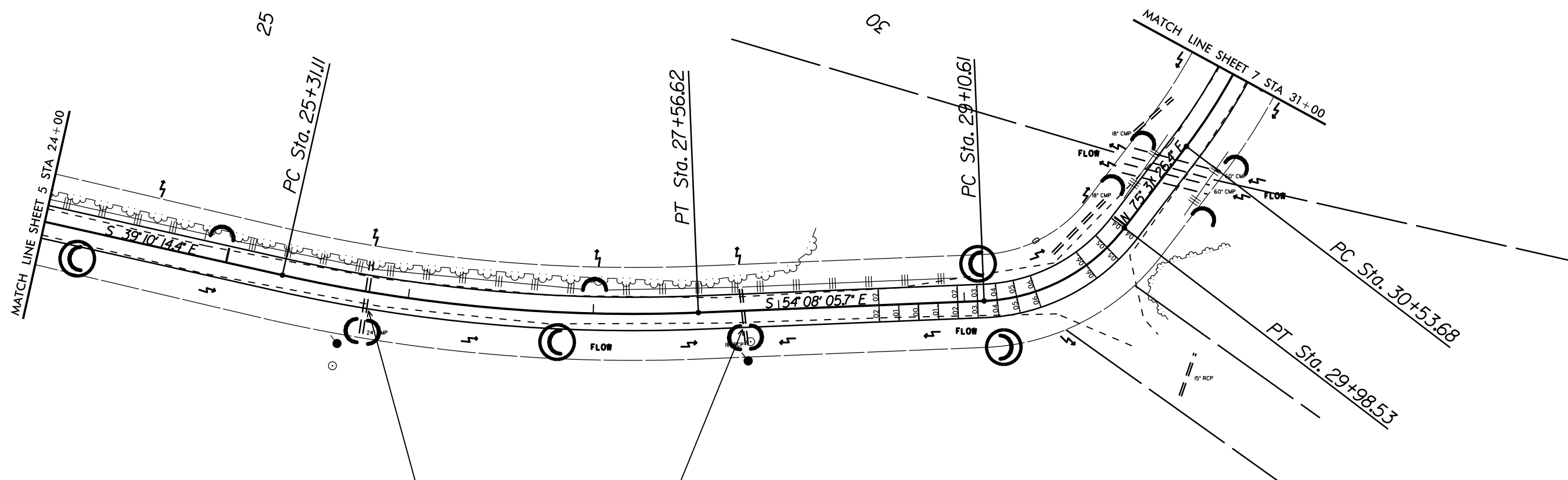
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Temporary Silt Fence



NOTE:  
TEMPORARY SILT FENCE SHALL BE INSTALLED  
AT THE TOE OF SLOPE.

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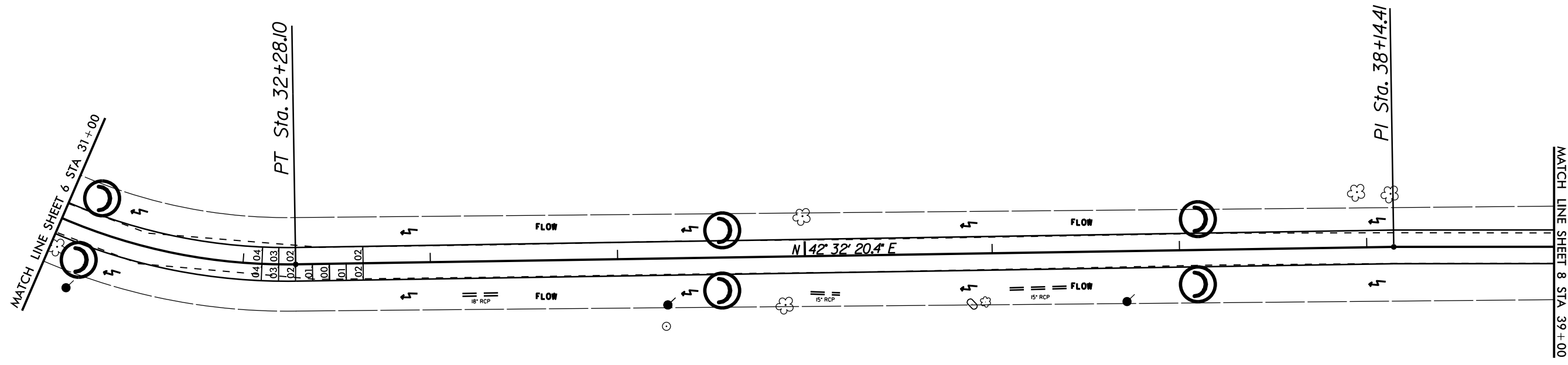


INSTALL MATTING FOR  
EROSION CONTROL  
STA. 25+80 - STA. 27+80

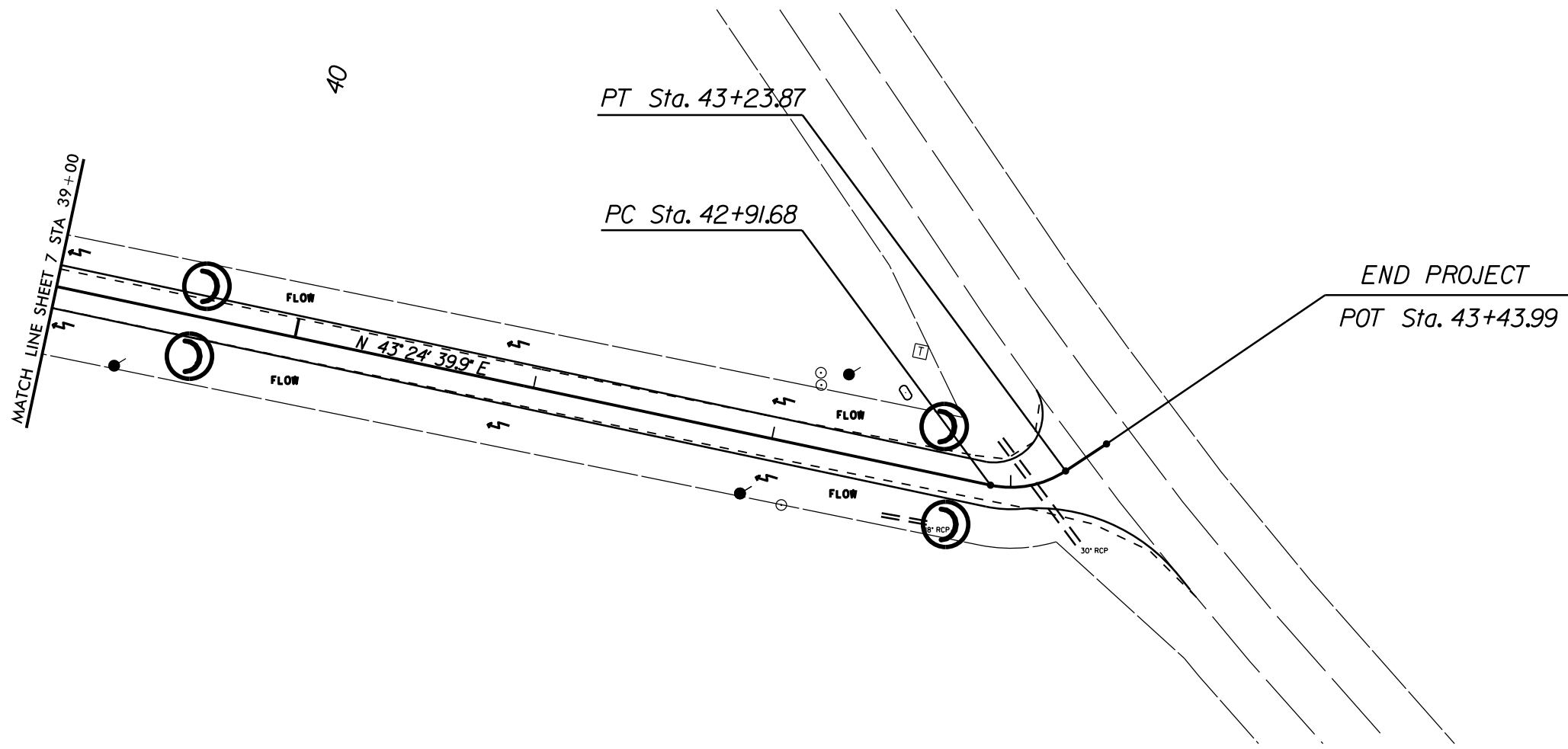
8/17/99  
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8/17/99  
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PROJECT NO.
DA00133

**SUMMARY OF QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	CLEARING & GRUBBING .. 0.5 ACRE(S) LS	UNCLASSIFIED EXCAVATION CY	BORROW CY	18" DRAINAGE PIPE LF	24" DRAINAGE PIPE LF	30" DRAINAGE PIPE LF	15" SIDE DRAIN PIPE LF	18" SIDE DRAIN PIPE LF	AGGREGATE BASE COURSE TON	CONDITIONING EXISTING BASE MSY	INCIDENTAL STONE BASE TON	SHOULDER CONSTRUCTION SMI	PRIME COAT GAL	SURFACE COURSE, SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TON	RIP RAP, CLASS A TON	RIP RAP, CLASS B TON	TEMPORARY SILT FENCE LF	MATTING FOR EROSION CONTROL SY	WATTLE LF	POLYACRYLAMIDE (PAM) LB	SEED & MULCHING ACR
1C.072054	Perquimans	1	SR 1465 GOOSENEST LANE ANNEX	FROM SR 1336 TO DEAD END	2	NO	0.58	18	1	1,000	750	80	40	40	60	60	100	2,250	13	50	1.16	2,143	680	46	20	10	100	550	140	28	1.50
1C.072065	Perquimans	1	SR 1105 BRINN FARM ROAD	FROM SR 1110 TO SR 1110	1	NO	0.63	18	*	1,750	1,250	160	40	60	60	60	100	2,700	14	50	1.27	2,340	831	56	20	50	1,675	500	420	21	1.00
<b>GRAND TOTAL</b>							<b>1.21</b>		<b>1</b>	<b>1</b>	<b>2,750</b>	<b>2,000</b>	<b>240</b>	<b>80</b>	<b>60</b>	<b>120</b>	<b>100</b>	<b>4,950</b>	<b>27</b>	<b>100</b>	<b>2.43</b>	<b>4,483</b>	<b>1,511</b>	<b>102</b>	<b>40</b>	<b>60</b>	<b>1,775</b>	<b>1,050</b>	<b>560</b>	<b>49</b>	<b>2.50</b>

**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	TEMPORARY TRAFFIC CONTROL LS	4" WHITE PAINT LF	4" YELLOW PAINT LF
1C.072054	Perquimans	1	SR 1465 GOOSENEST LANE ANNEX	FROM SR 1336 TO DEAD END	0.58	18	1	7,656	12,482
1C.072065	Perquimans	2	SR 1105 BRINN FARM ROAD	FROM SR 1110 TO SR 1110	0.63	18	*	8,356	13,622
<b>GRAND TOTAL</b>					<b>1.21</b>		<b>1</b>	<b>16,012</b>	<b>26,104</b>
									<b>42,116</b>