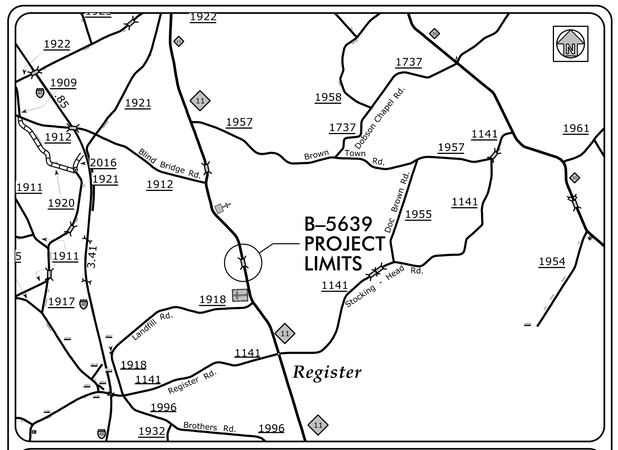
TIP PROJECT: B-5639



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

DUPLIN COUNTY

LOCATION: BRIDGE NO. 36 OVER MAXWELL CREEK ON NC 11 (CLODFELTER ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

NAD 83/2011

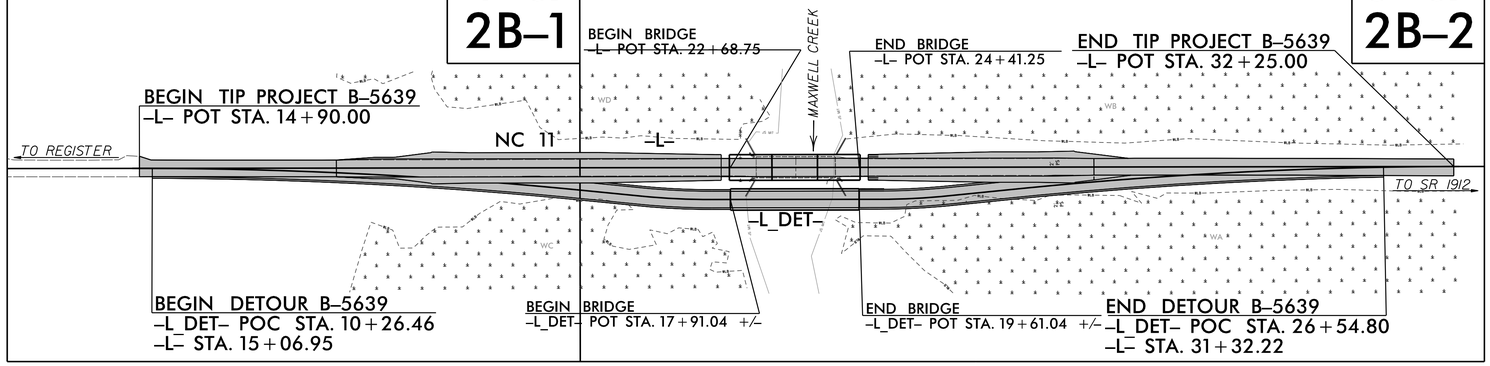
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5639	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
45594.1.1		P.E.
45594.2.1		R/W & UTL

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	EW CW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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



GRAPHIC SCALE

50 25 0 50 100

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Prepared in the Office of:

SUNGATE DESIGN GROUP, P.A.

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

Designed by:

MATTHEW C. EDWARDS, EI ***3992***

NAME *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

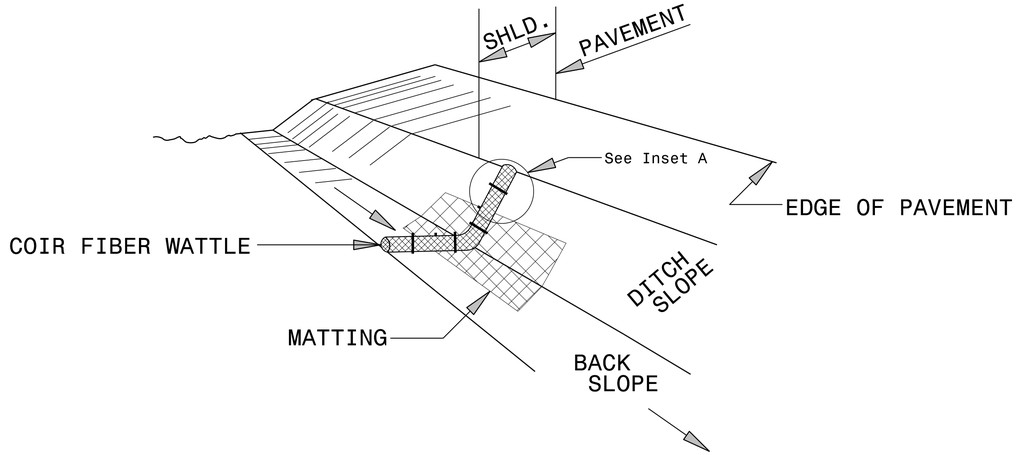
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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

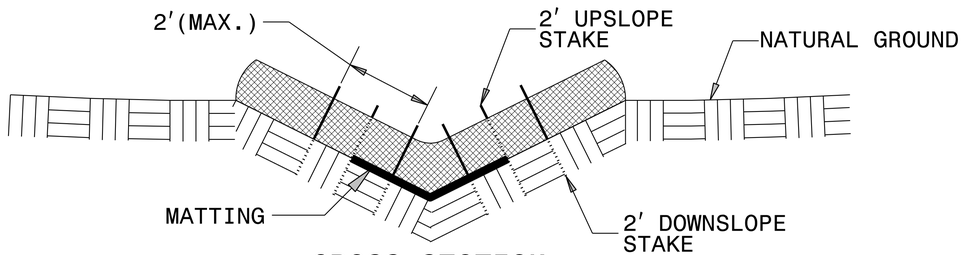
3/3/2020
B5639_EC_dsn_psh_01.dgn
MEdwards

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

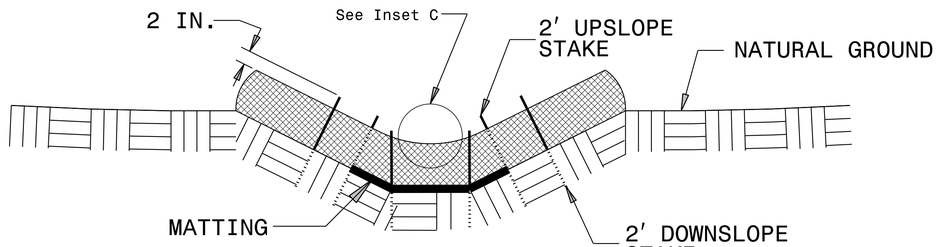
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

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

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

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

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

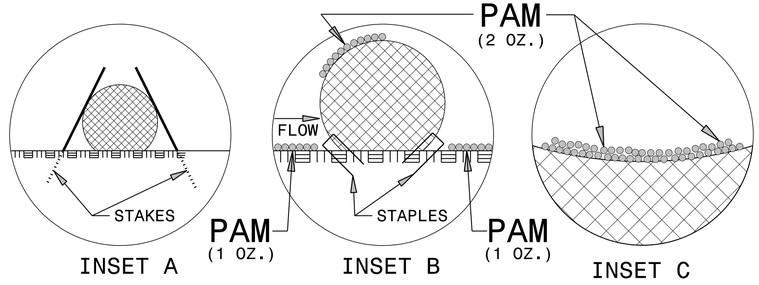
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

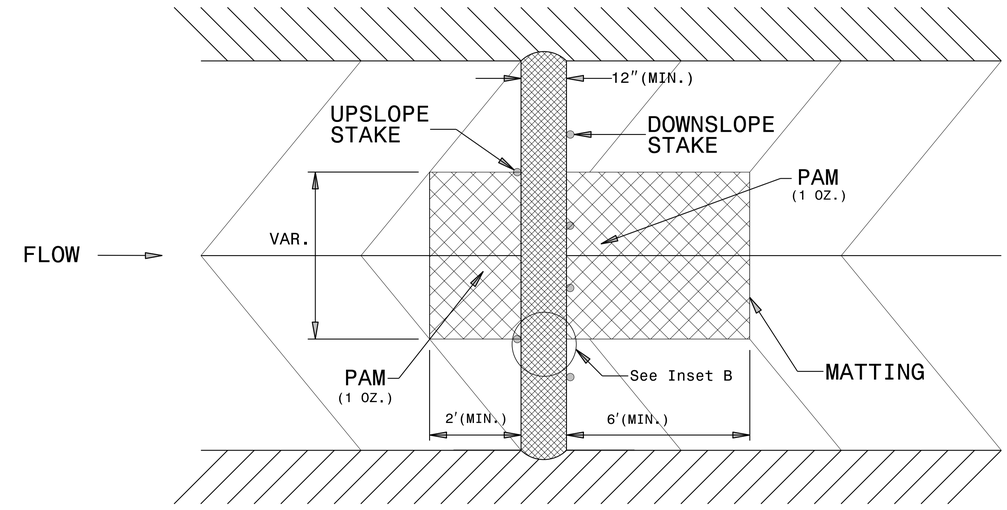
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

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

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

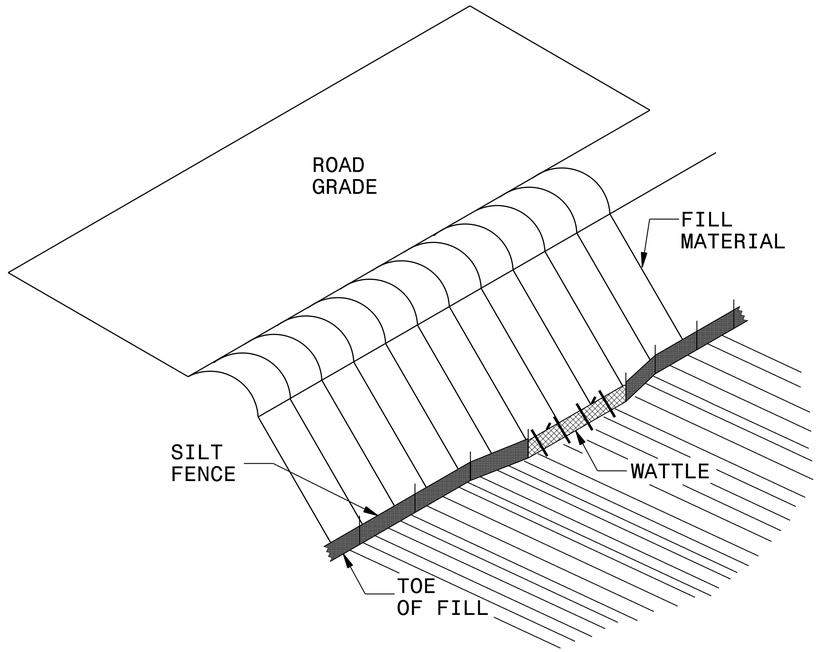




TOP VIEW

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

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

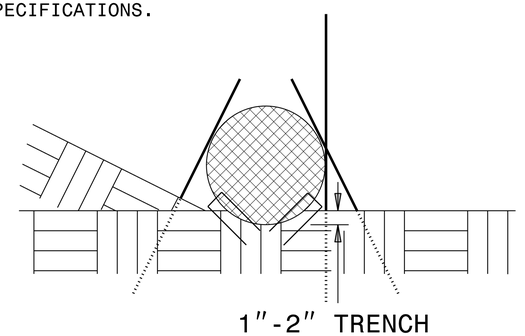
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

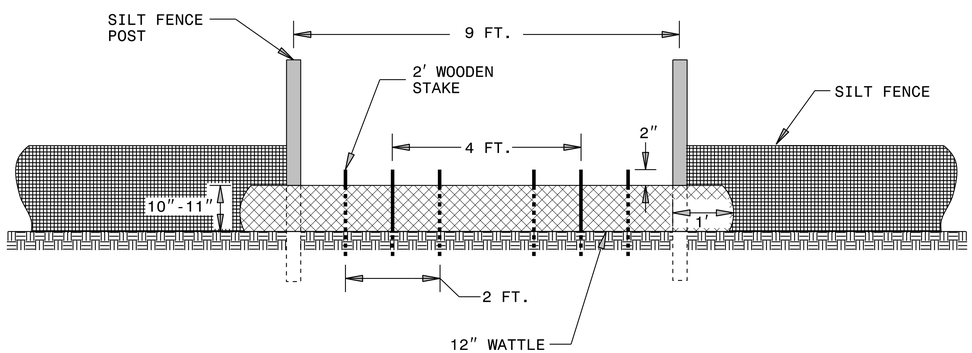
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

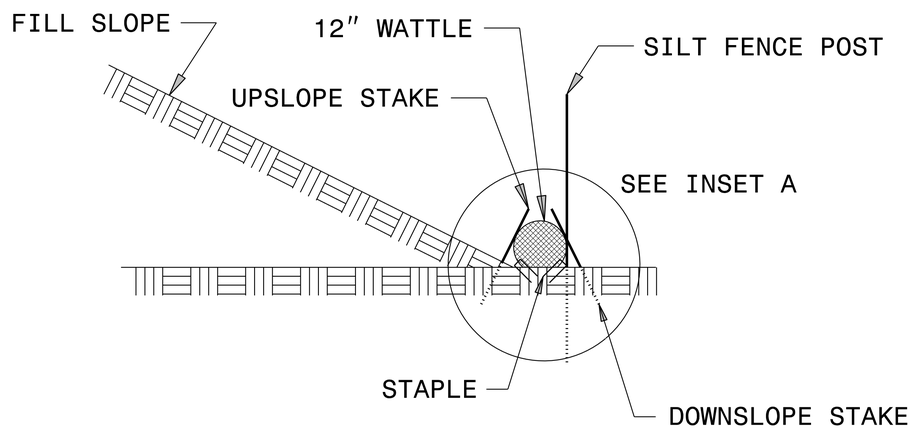
INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





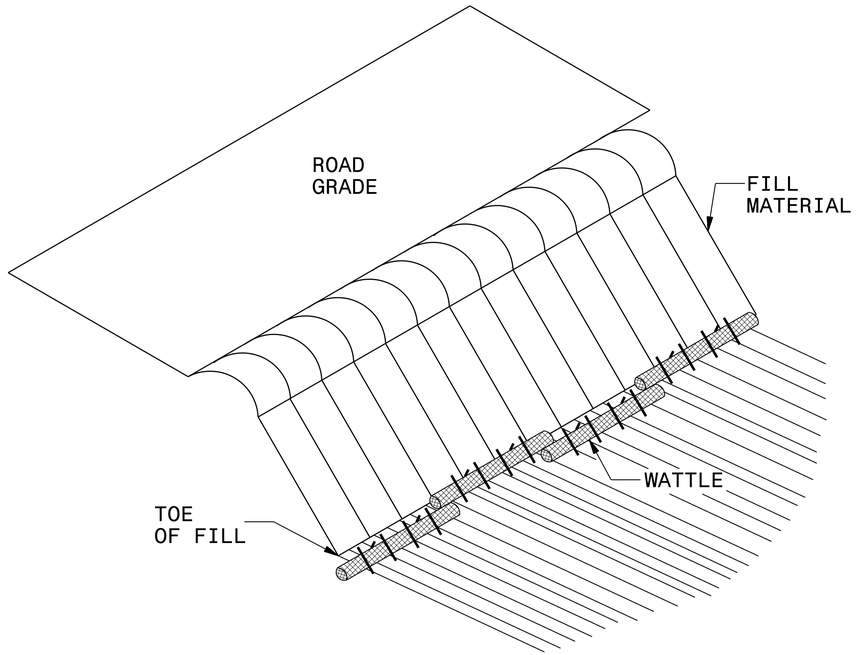
VIEW FROM SLOPE



SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE BARRIER DETAIL



ISOMETRIC VIEW

NOTES:

USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLES ON TOE OF SLOPE.

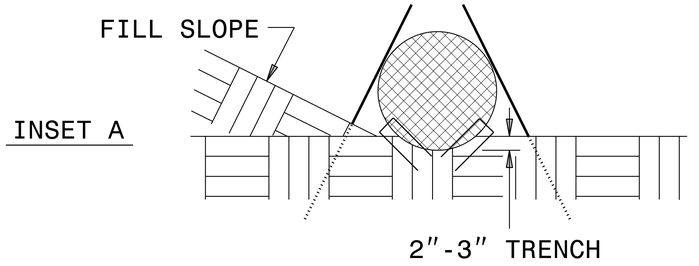
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

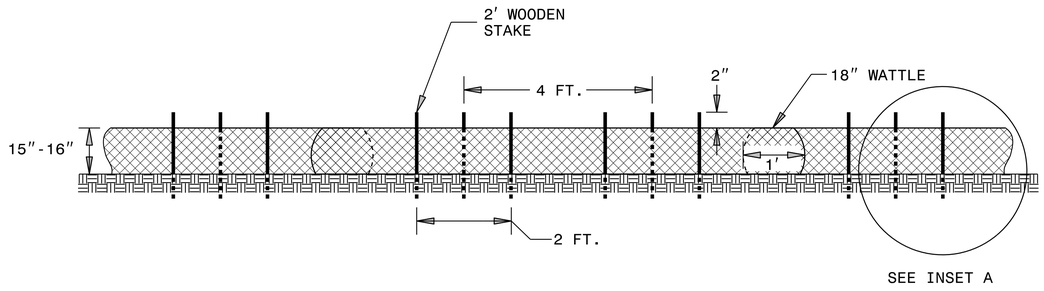
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

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

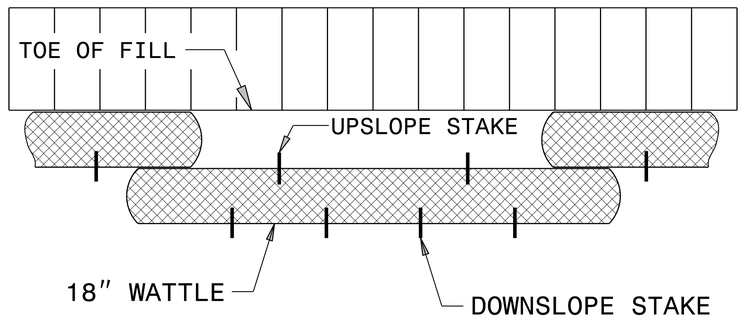
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.





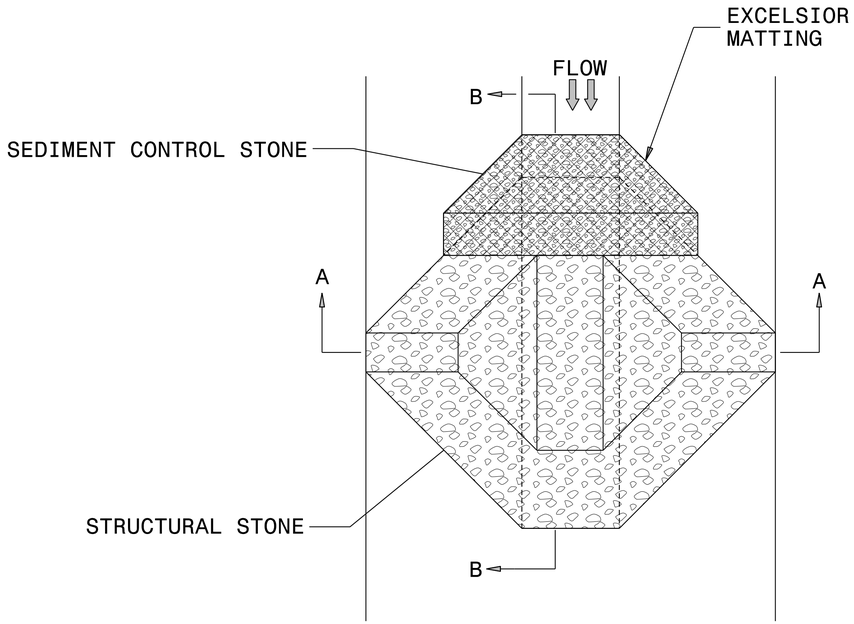
FRONT VIEW



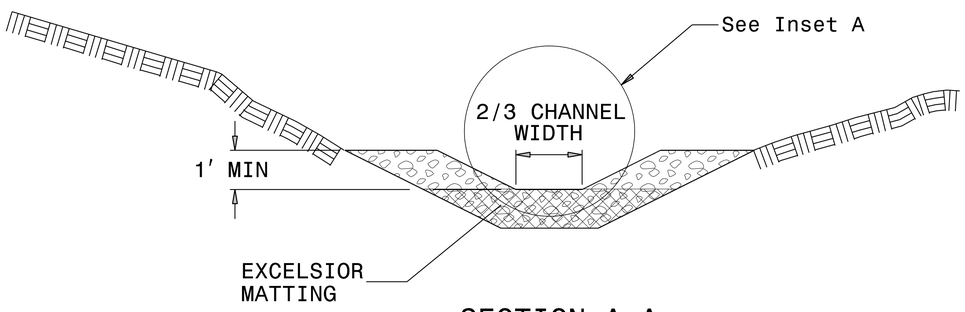
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN



SECTION A-A

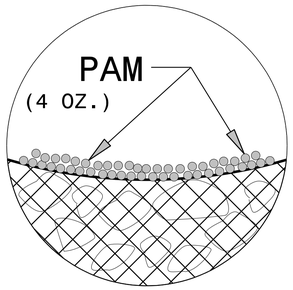
NOTES:

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

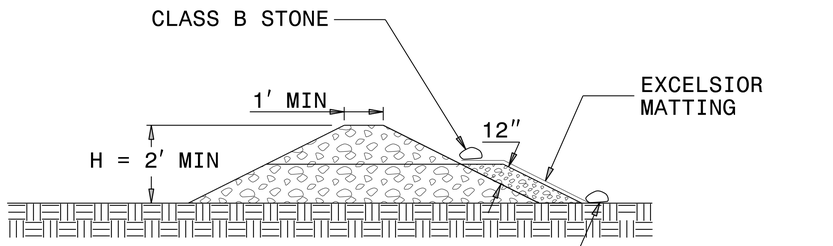
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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

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



INSET A



SECTION B-B

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

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

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: IMPERVIOUS DIKES MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

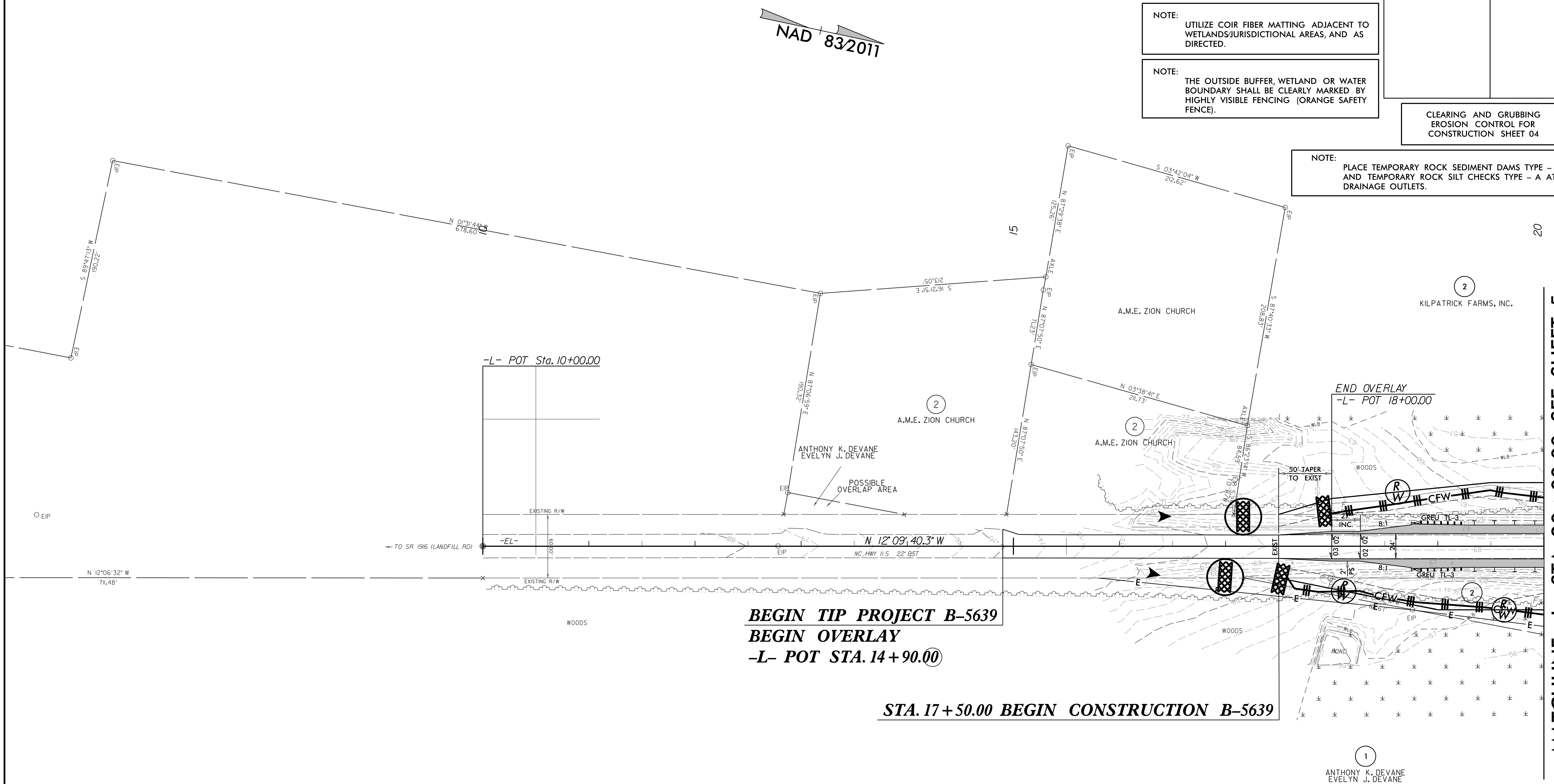
NOTE: UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE: THE OUTSIDE BUFFER, WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

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



FOR -L- PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-05/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

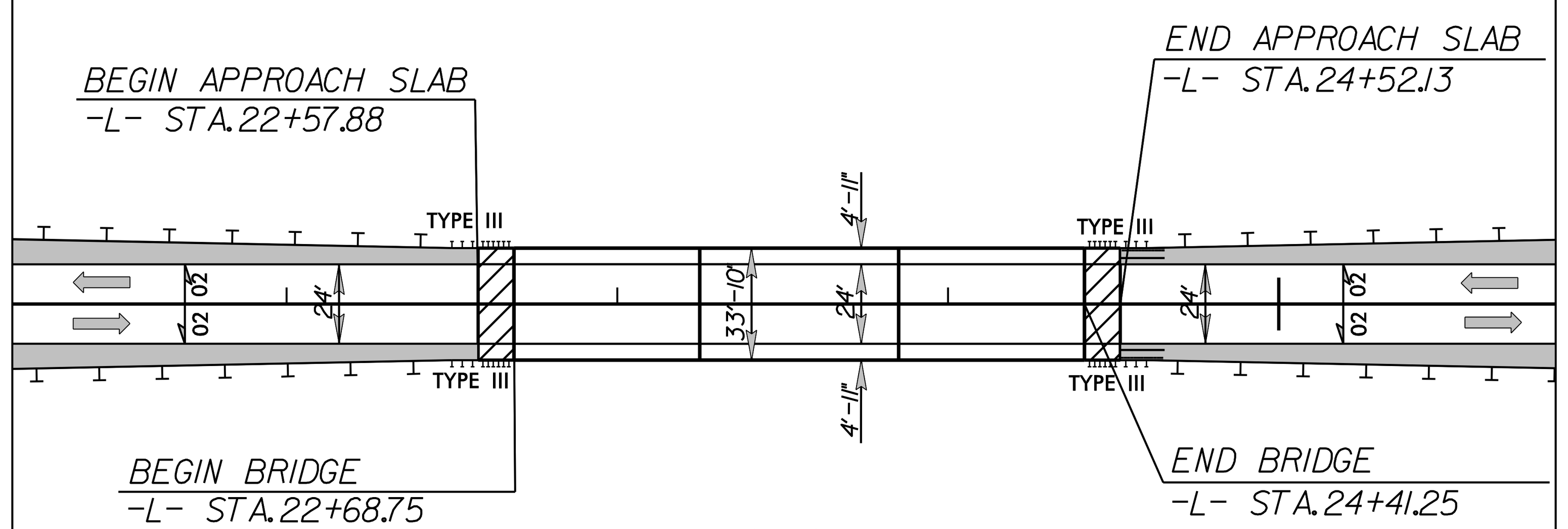
NOTE: IMPERVIOUS DIKES MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

NOTE: UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

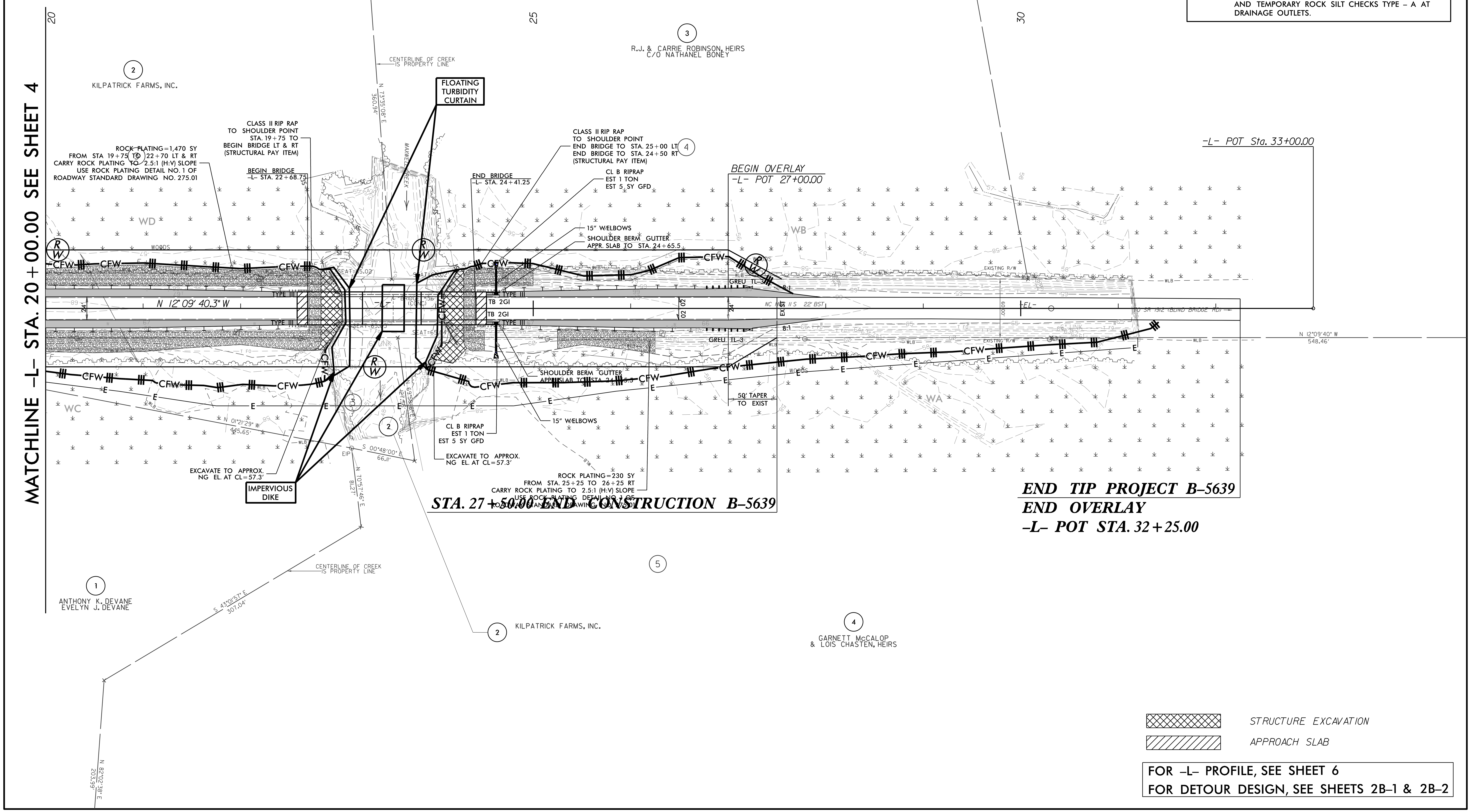
NOTE: THE OUTSIDE BUFFER, WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).

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



(NTS)
SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP

NAD 83/2011



MATCHLINE -L- STA. 20+00.00 SEE SHEET 4
KILPATRICK FARMS, INC.
R.J. & CARRIE ROBINSON, HEIRS
C/O NATHANEL BONEY
CENTERLINE OF CREEK IS PROPERTY LINE
FLOATING TURBIDITY CURTAIN
CLASS II RIP RAP TO SHOULDER POINT STA. 19+75 TO BEGIN BRIDGE LT & RT (STRUCTURAL PAY ITEM)
ROCK PLATING=1,470 SY FROM STA 19+75 TO 22+70 LT & RT CARRY ROCK PLATING TO 2.5:1 (H:V) SLOPE USE ROCK PLATING DETAIL NO. 1 OF ROADWAY STANDARD DRAWING NO. 275.01
BEGIN BRIDGE -L- STA. 22+68.75
END BRIDGE -L- STA. 24+41.25
CLASS II RIP RAP TO SHOULDER POINT END BRIDGE TO STA. 25+00 LT END BRIDGE TO STA. 24+50 RT (STRUCTURAL PAY ITEM)
CL B RIPRAP EST 1 TON EST 5 SY GFD
15" W/ELBOWS
SHOULDER BERM GUTTER APPR. SLAB TO STA. 24+65.5
BEGIN OVERLAY -L- POT 27+00.00
-L- POT Sta. 33+00.00
N 12°09'40.3" W
TB 2GI
GREU TL-3
50' TAPER TO EXIST
SHOULDER BERM GUTTER
15" W/ELBOWS
CL B RIPRAP EST 1 TON EST 5 SY GFD
EXCAVATE TO APPROX. NG EL. AT CL=57.3'
ROCK PLATING=230 SY FROM STA. 25+25 TO 26+25 RT CARRY ROCK PLATING TO 2.5:1 (H:V) SLOPE USE ROCK PLATING DETAIL NO. 1 OF ROADWAY STANDARD DRAWING NO. 275.01
IMPERVIOUS DIKE
STA. 27+50.00 END CONSTRUCTION B-5639
END TIP PROJECT B-5639
END OVERLAY
-L- POT STA. 32+25.00
N 12°09'40" W 548.46'
ANTHONY K. DEVANE
EVELYN J. DEVANE
KILPATRICK FARMS, INC.
GARNETT McCALOP & LOIS CHASTEN, HEIRS
WD
WB
WC
WA
CFW

STRUCTURE EXCAVATION

APPROACH SLAB

FOR -L- PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-06/CONST 2B-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
IMPERVIOUS DIKES MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

NOTE:
UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE:
THE OUTSIDE BUFFER, WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).

DETOUR
EROSION CONTROL FOR CONSTRUCTION SHEET 2B-1

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 13+19 to Sta. 15+00 –L_DET– RT

NAD 83/2011

N 01°31'44" W
678.60'

N 12°06'32" W
711.48'

190.22'

EIP

213.05'
S 16°21'51" E

N 87°06'59" E
190.52'

N 87°07'07" E
143.20'

N 87°40'05" E
112.53'

S 87°40'33" W
208.83'

S 86°23'14" W
84.25'

EIP

N 03°38'41" E
211.73'

BEGIN CONSTRUCTION –L_DET– STA. 10+26.46

BEGIN GRADE STA. 13+71.67

ANTHONY K. DEVANE
EVELYN J. DEVANE

POSSIBLE OVERLAP AREA

A.M.E. ZION CHURCH

KILPATRICK FARMS, INC.

EXISTING R/W

60.00'

–EL–

TO SR 1916 (LANDFILL RD)

NC HWY 11 S 22' BST

EXISTING R/W

WOODS

WOODS

WOODS

WLB

CFW

SREU

FO

BOND

EIP

–L_DET– PC Sta. 10+00.00 =
–L– Sta. 14+80.49

MATCHLINE –L_DET– STA. 15+00.00 SEE SHEET 2B-2

FOR –L_DET– PROFILE, SEE SHEET 7
FOR –L– DESIGN, SEE SHEETS 4 & 5

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-07/CONST.2B-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
IMPERVIOUS DIKES MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

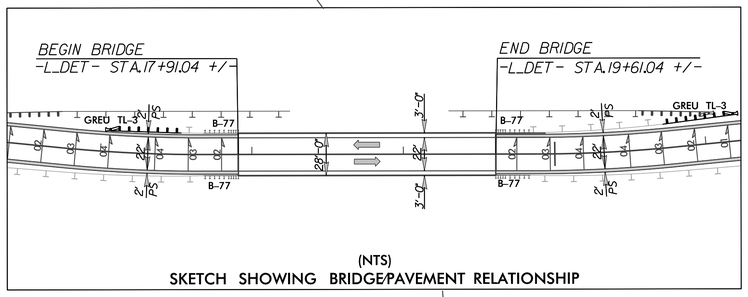
NOTE:
UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE:
THE OUTSIDE BUFFER, WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).

DETOUR
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B-2

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 15+00 to Sta. 17+71 -L_DET- RT
Sta. 19+71 to Sta. 25+83 -L_DET- RT



NAD 83/2011

MATCHLINE -L_DET- STA. 15+00.00 SEE SHEET 2B-1

STA. 23+97.33 END GRADE

END CONSTRUCTION
-L_DET- STA. 26+54.80

2 KILPATRICK FARMS, INC.

3 R.J. & CARRIE ROBINSON, HEIRS
C/O NATHANEL BONEY

CENTERLINE OF CREEK IS PROPERTY LINE

N 73°55'08" E 360.94'

FLOATING TURBIDITY CURTAIN

BEGIN BRIDGE
-L_DET- STA. 17+91.04 +/-

END BRIDGE
-L_DET- STA. 19+61.04 +/-

CL A RIPRAP
EST 1 TON
EST 4 SY GFD

SHOULDER BERM GUTTER
APPR. SLAB TO STA. 19+78 -L_DET- LT

WD WB WC WA

WOODS

CFW

R/W

BRIDGE #36 (CONC)

SEAT=65.02'

SEAT=65.04'

24" CONC.

TEMPORARY GUARDRAIL

GREU TL-3

NC HWY 11 S 22' BST

TO SR 1912 (BLIND BRIDGE RD)

EXISTING R/W

-EL-

N 12°09'40" W
548.46'

N 12°09'40.3" W

22' TYP

CLASS II RIP RAP

S 00°48'00" E
66.11'

N 0°12'29" W
485.65'

N 6° 29' 25.0" W

N 70°57'46" E
182.27'

IMPERVIOUS DIKE

-L_DET- PT Sta. 15+86.93

-L_DET- PC Sta. 16+74.93

-L_DET- PT Sta. 17+66.58

-L_DET- PC Sta. 19+88.37

N 17° 49' 55.6" W

-L_DET- PC Sta. 21+68.02

-L_DET- PT Sta. 20+80.02

-L_DET- PT Sta. 27+54.95 =
-L- Sta. 32+32.36

1 ANTHONY K. DEVANE
EVELYN J. DEVANE

CENTERLINE OF CREEK IS PROPERTY LINE

S 43°01'57" E
307.04'

N 82°02'36" E
203.36'

2 KILPATRICK FARMS, INC.

4 GARNETT McCALOP
& LOIS CHASTEN, HEIRS

5

FOR -L_DET- PROFILE, SEE SHEET 7
FOR -L- DESIGN, SEE SHEETS 4 & 5

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-08/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

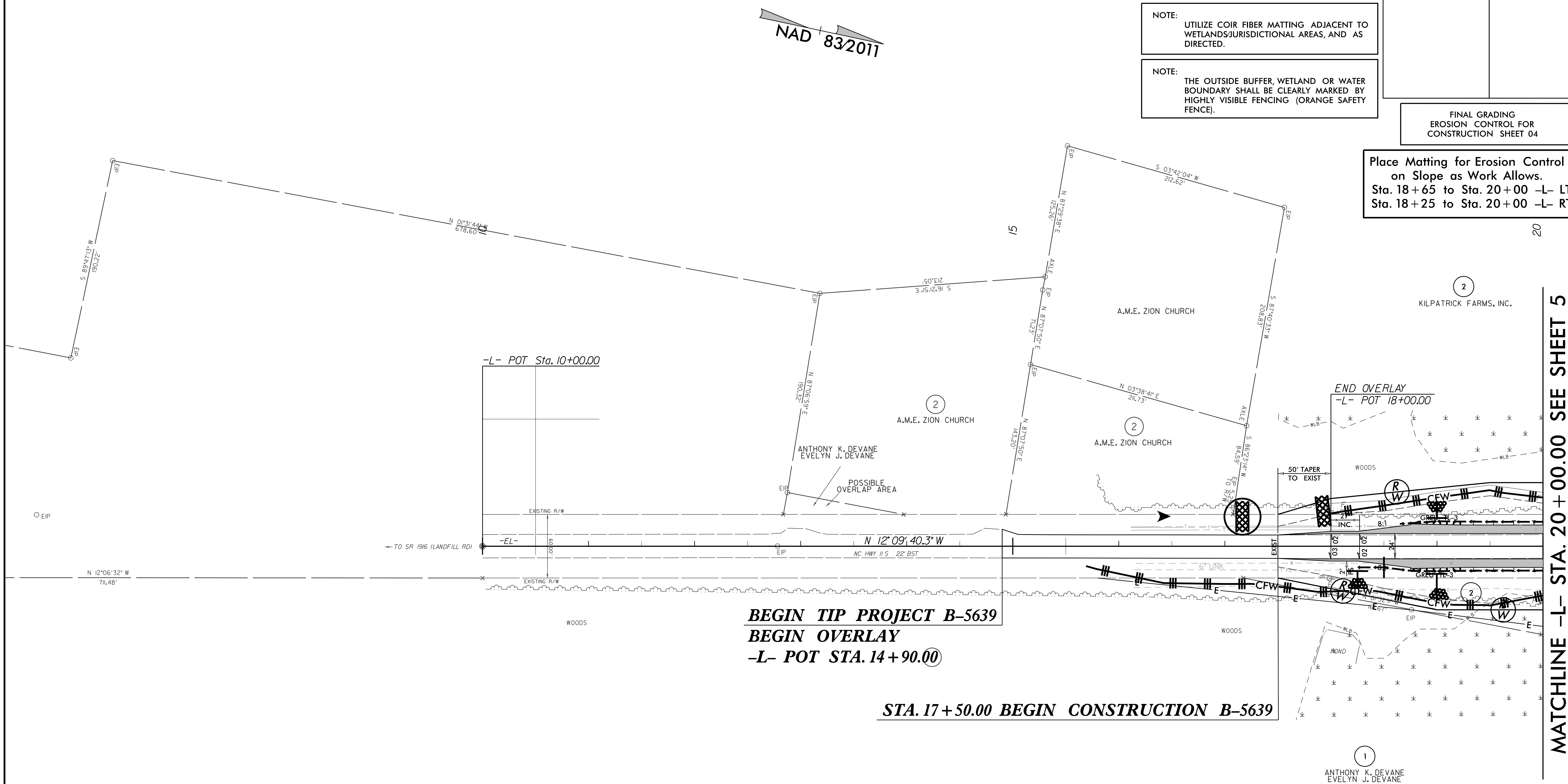
NOTE:
IMPERVIOUS DIKES MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

NOTE:
UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE:
THE OUTSIDE BUFFER, WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 18+65 to Sta. 20+00 –L– LT
Sta. 18+25 to Sta. 20+00 –L– RT



FOR –L– PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B–1 & 2B–2

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-09/CONST.05

R/W SHEET NO.

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

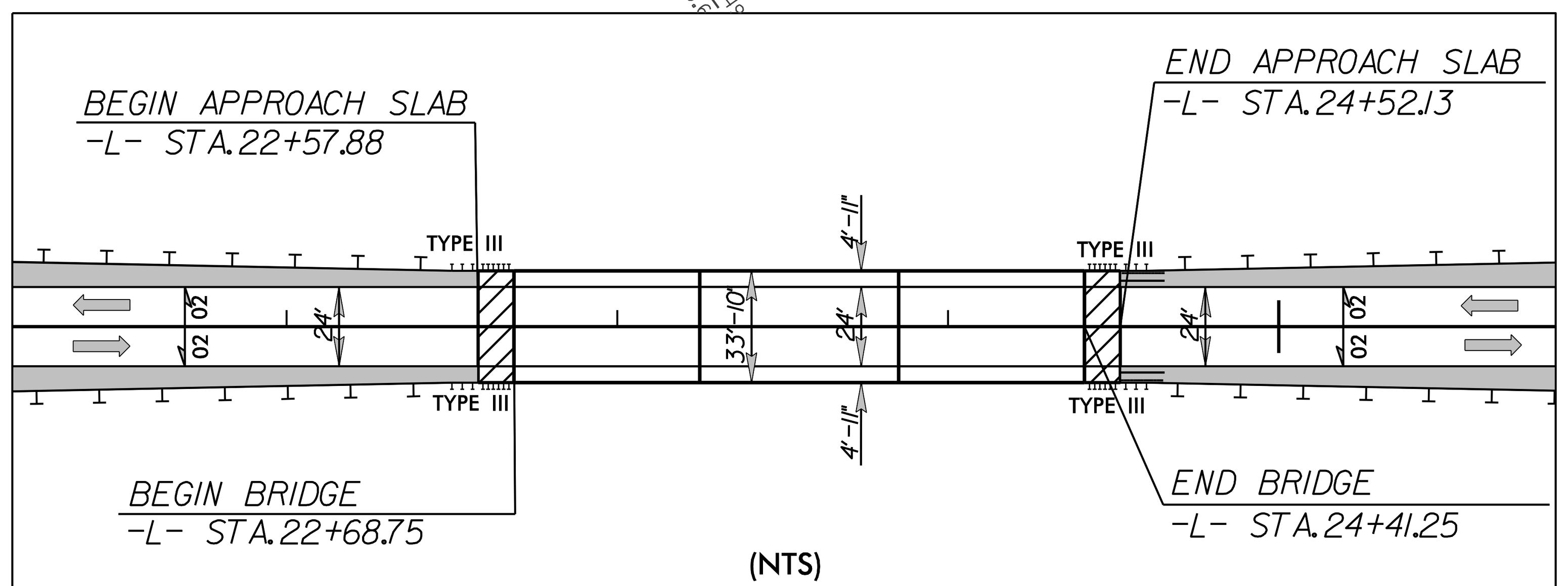
NOTE: IMPERVIOUS DIKES MAY BE MODIFIED AND/OR ELIMINATED AS DIRECTED.

NOTE: UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

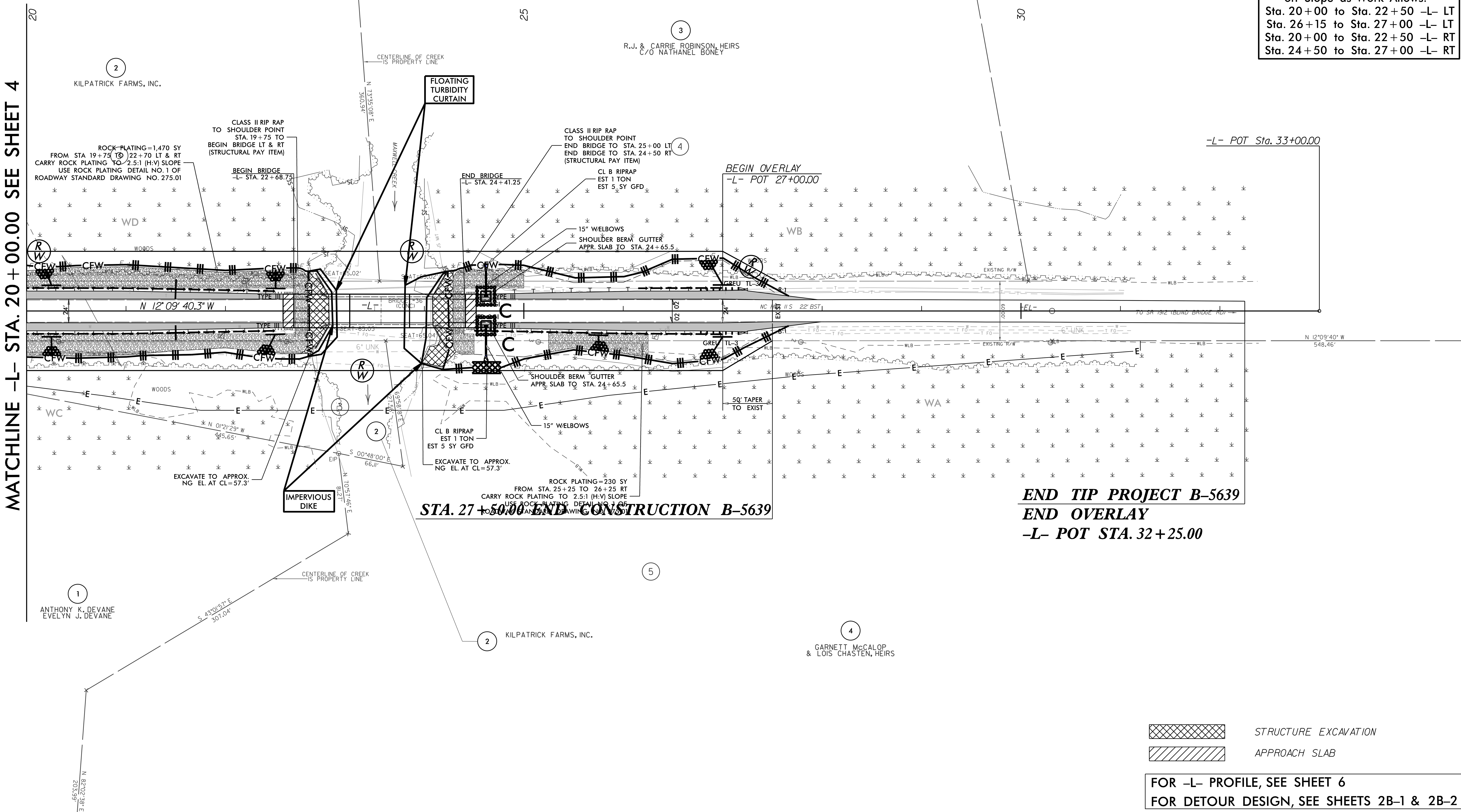
NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE: THE OUTSIDE BUFFER, WETLAND OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE).

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 20+00 to Sta. 22+50 –L– LT
Sta. 26+15 to Sta. 27+00 –L– LT
Sta. 20+00 to Sta. 22+50 –L– RT
Sta. 24+50 to Sta. 27+00 –L– RT



(NTS)
SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP



NAD 83/2011
MATCHLINE –L– STA. 20+00.00 SEE SHEET 4
KILPATRICK FARMS, INC.
R.J. & CARRIE ROBINSON, HEIRS C/O NATHANEL BONEY
CENTERLINE OF CREEK IS PROPERTY LINE
FLOATING TURBIDITY CURTAIN
CLASS II RIP RAP TO SHOULDER POINT STA. 19+75 TO BEGIN BRIDGE LT & RT (STRUCTURAL PAY ITEM)
ROCK PLATING=1,470 SY FROM STA 19+75 TO 22+70 LT & RT CARRY ROCK PLATING TO 2.5:1 (H:V) SLOPE USE ROCK PLATING DETAIL NO. 1 OF ROADWAY STANDARD DRAWING NO. 275.01
BEGIN BRIDGE –L– STA. 22+68.75
END BRIDGE –L– STA. 24+41.25
CLASS II RIP RAP TO SHOULDER POINT END BRIDGE TO STA. 25+00 LT END BRIDGE TO STA. 24+50 RT (STRUCTURAL PAY ITEM)
CL B RIPRAP EST 1 TON EST 5 SY GFD
15" W/ELBOWS
SHOULDER BERM GUTTER APPR. SLAB TO STA. 24+65.5
BEGIN OVERLAY –L– POT 27+00.00
–L– POT Sta. 33+00.00
N 12°09' 40.3" W
WD
WB
WC
WA
CFW
EXCAVATE TO APPROX. NG EL. AT CL=57.3'
IMPERVIOUS DIKE
ROCK PLATING=230 SY FROM STA. 25+25 TO 26+25 RT CARRY ROCK PLATING TO 2.5:1 (H:V) SLOPE USE ROCK PLATING DETAIL NO. 1 OF ROADWAY STANDARD DRAWING NO. 275.01
STA. 27+50.00 END CONSTRUCTION B-5639
50' TAPER TO EXIST
END TIP PROJECT B-5639
END OVERLAY
–L– POT STA. 32+25.00
ANTHONY K. DEVANE EVELYN J. DEVANE
GARNETT McCALOP & LOIS CHASTEN, HEIRS

Symbol	Meaning
(crosshatch)	STRUCTURE EXCAVATION
(diagonal hatch)	APPROACH SLAB

FOR –L– PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-10/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2011

N 01°31'44" W
678.60'

S 89°47'13" W
190.22'

EIP

-L- POT Sta. 10+00.00

S 16°21'51" E
213.05'

15

S 03°42'04" W
212.62'

N 87°23'38" E
125.26'

N 87°40'50" E
71.23'

N 03°38'41" E
211.73'

S 87°40'33" W
208.39'

S 86°52'16" W
84.59'

20

A.M.E. ZION CHURCH

(2) A.M.E. ZION CHURCH

(2) A.M.E. ZION CHURCH

(2) KILPATRICK FARMS, INC.

N 87°40'50" E
71.20'

N 87°40'50" E
80.12'

ANTHONY K. DEVANE
EVELYN J. DEVANE

POSSIBLE OVERLAP AREA

EIP

END OVERLAY
-L- POT 18+00.00

WLB

WOODS

50' TAPER TO EXIST

EXISTING R/W

-EL-

N 12°09'40.3" W

NC HWY 11 S 22 BST

EXIST

27' INC.

8:1

GREU TL-3

24'

03.02

02.02

2%

6" UNK

TO SR 1916 (LANDFILL RD)

N 12°06'32" W
711.48'

EXISTING R/W

WOODS

EIP

POND

WOODS

BEGIN TIP PROJECT B-5639
BEGIN OVERLAY
-L- POT STA. 14+90.00

STA. 17+50.00 BEGIN CONSTRUCTION B-5639

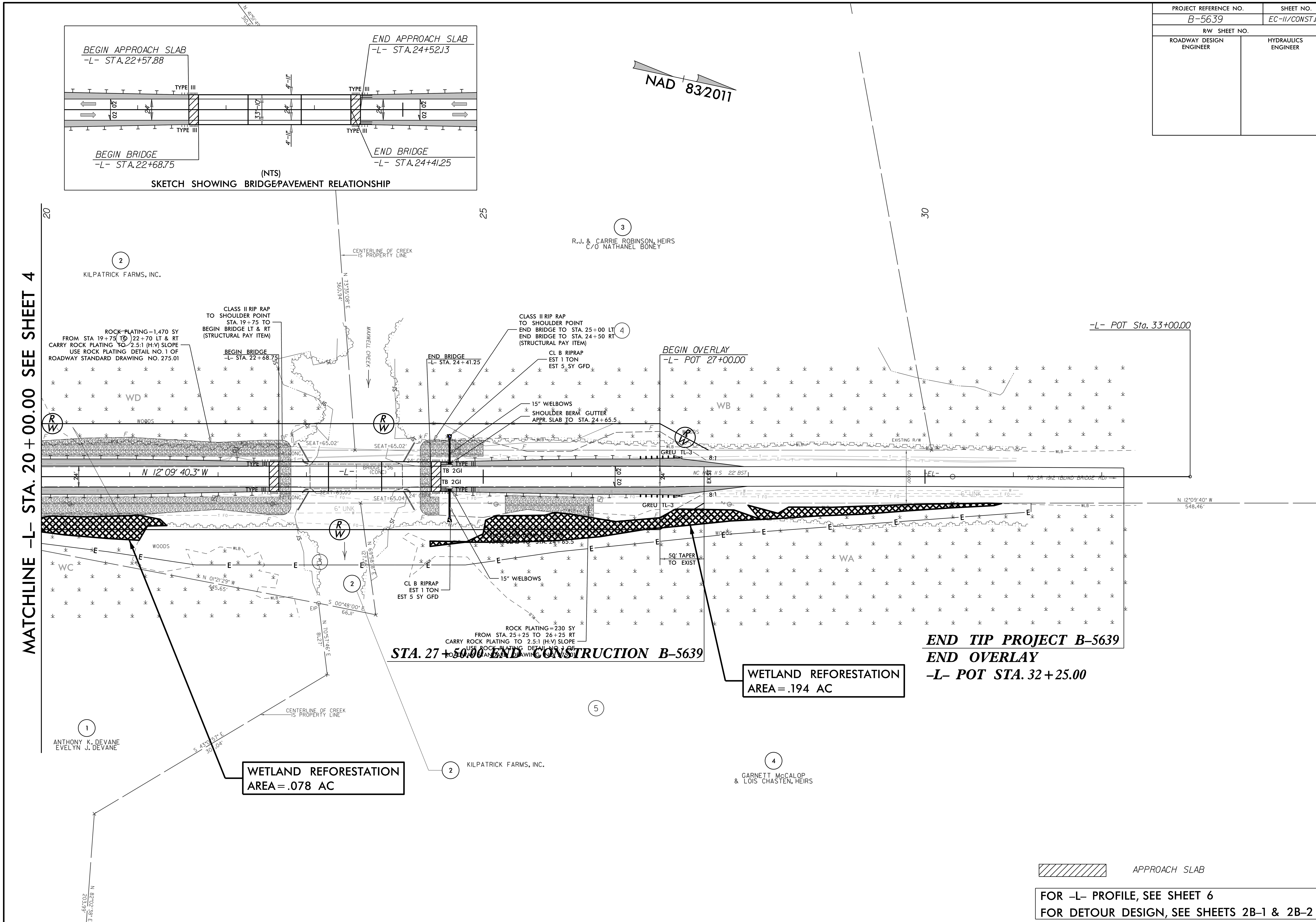
(1) ANTHONY K. DEVANE
EVELYN J. DEVANE

WETLAND REFORESTATION
AREA = .078 AC

MATCHLINE -L- STA. 20+00.00 SEE SHEET 5

FOR -L- PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2

PROJECT REFERENCE NO.	SHEET NO.
B-5639	EC-II/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BEGIN APPROACH SLAB
-L- STA.22+57.88
END APPROACH SLAB
-L- STA.24+52.13
TYPE III
BEGIN BRIDGE
-L- STA.22+68.75
END BRIDGE
-L- STA.24+41.25
(NTS)
SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP
NAD 83/2011
MATCHLINE -L- STA. 20+00.00 SEE SHEET 4
KILPATRICK FARMS, INC.
R.J. & CARRIE ROBINSON, HEIRS
C/O NATHANEL BONEY
CENTERLINE OF CREEK IS PROPERTY LINE
CLASS II RIP RAP TO SHOULDER POINT STA. 19+75 TO BEGIN BRIDGE LT & RT (STRUCTURAL PAY ITEM)
ROCK PLATING=1,470 SY FROM STA 19+75 TO 22+70 LT & RT CARRY ROCK PLATING TO 2.5:1 (H:V) SLOPE USE ROCK PLATING DETAIL NO. 1 OF ROADWAY STANDARD DRAWING NO. 275.01
BEGIN BRIDGE -L- STA. 22+68.75
END BRIDGE -L- STA. 24+41.25
CLASS II RIP RAP TO SHOULDER POINT END BRIDGE TO STA. 25+00 LT END BRIDGE TO STA. 24+50 RT (STRUCTURAL PAY ITEM)
CL B RIPRAP EST 1 TON EST 5 SY GFD
15" W/ELBOWS
SHOULDER BERM GUTTER APPR. SLAB TO STA. 24+65.5
BEGIN OVERLAY -L- POT 27+00.00
-L- POT Sta. 33+00.00
MAXWELL CREEK
N 12° 09' 40.3" W
WD
WB
WC
WA
WOODS
GREU TL-3
50' TAPER TO EXIST
ROCK PLATING=230 SY FROM STA. 25+25 TO 26+25 RT CARRY ROCK PLATING TO 2.5:1 (H:V) SLOPE
STA. 27+50.00 END CONSTRUCTION B-5639
END TIP PROJECT B-5639
END OVERLAY
-L- POT STA. 32+25.00
WETLAND REFORESTATION AREA=.078 AC
WETLAND REFORESTATION AREA=.194 AC
ANTHONY K. DEVANE
EVELYN J. DEVANE
GARNETT McCALOP & LOIS CHASTEN, HEIRS
APPROACH SLAB

FOR -L- PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2