



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

July 16, 2018

Addendum No. 4

Contract No.: DA00333

WBS Element: 50196.3.1

TIP Number: R-5738

Grading, Drainage, Paving and Structure Improvements on SR1208 "Kitty Hawk Road," in Dare County

To Whom It May Concern:

Reference is made to the proposal and plans previously furnished for this project.

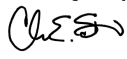
The following revision has been made to the proposal:

Plan Sheet 2A-1, "Wooden Pedestrian Rail Elevation Detail" has been revised to describe the fasteners required. Please void existing Plan Sheet 2A-1, and replace with the revised Plan Sheet 2A-1.

Plan Sheets (EC5 – EC7) & (EC10 – EC12), "Erosion Control Plans" have been revised to eliminate the "Lump Sum for Erosion Control" reference. Please void existing Plan Sheets (EC5 – EC7) & (EC10 – EC12), and replace with the revised Plan Sheets (EC5 – EC7) & (EC10 – EC12).

The amended EBS File (DA00333.004) has been uploaded to Bid Express. We apologize for any inconvenience.

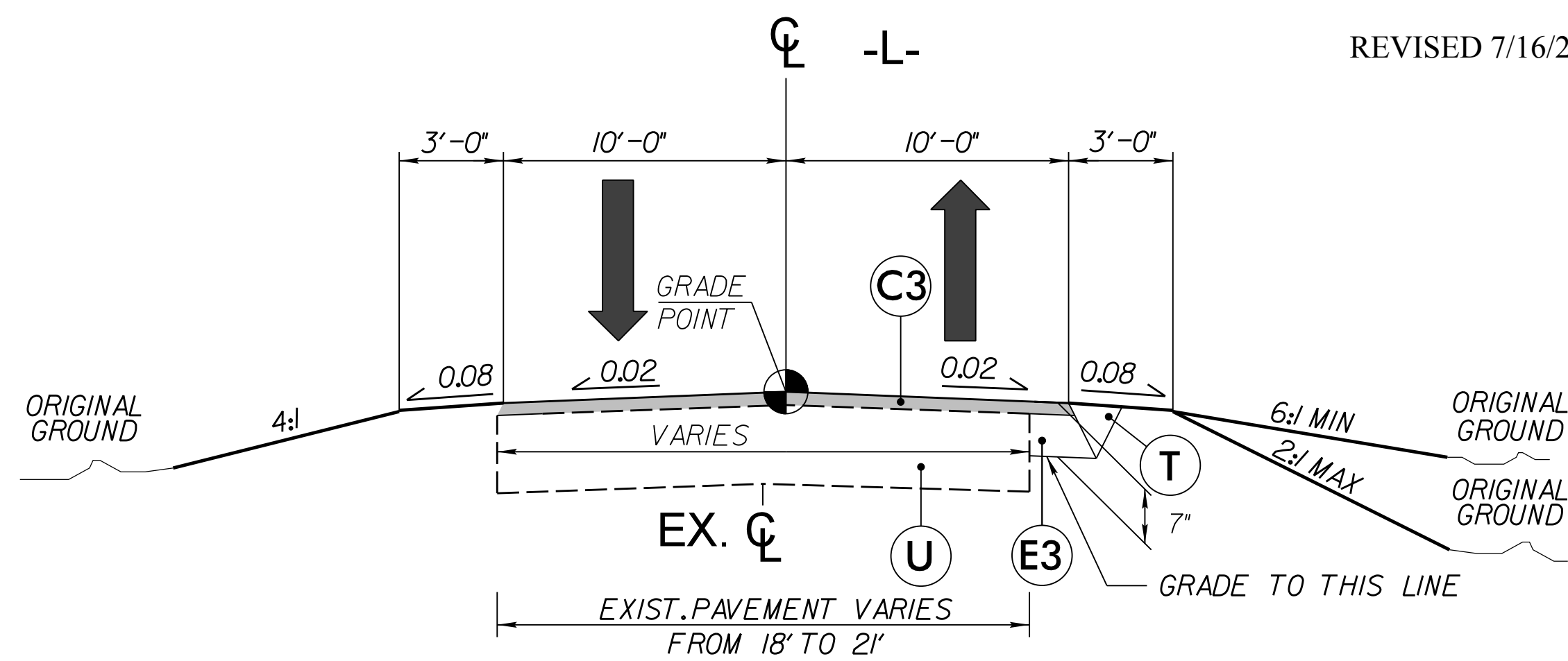
Sincerely,

DocuSigned by:

CDAEAC77A6394FB...

C. E. Slachta
Division Proposals Engineer

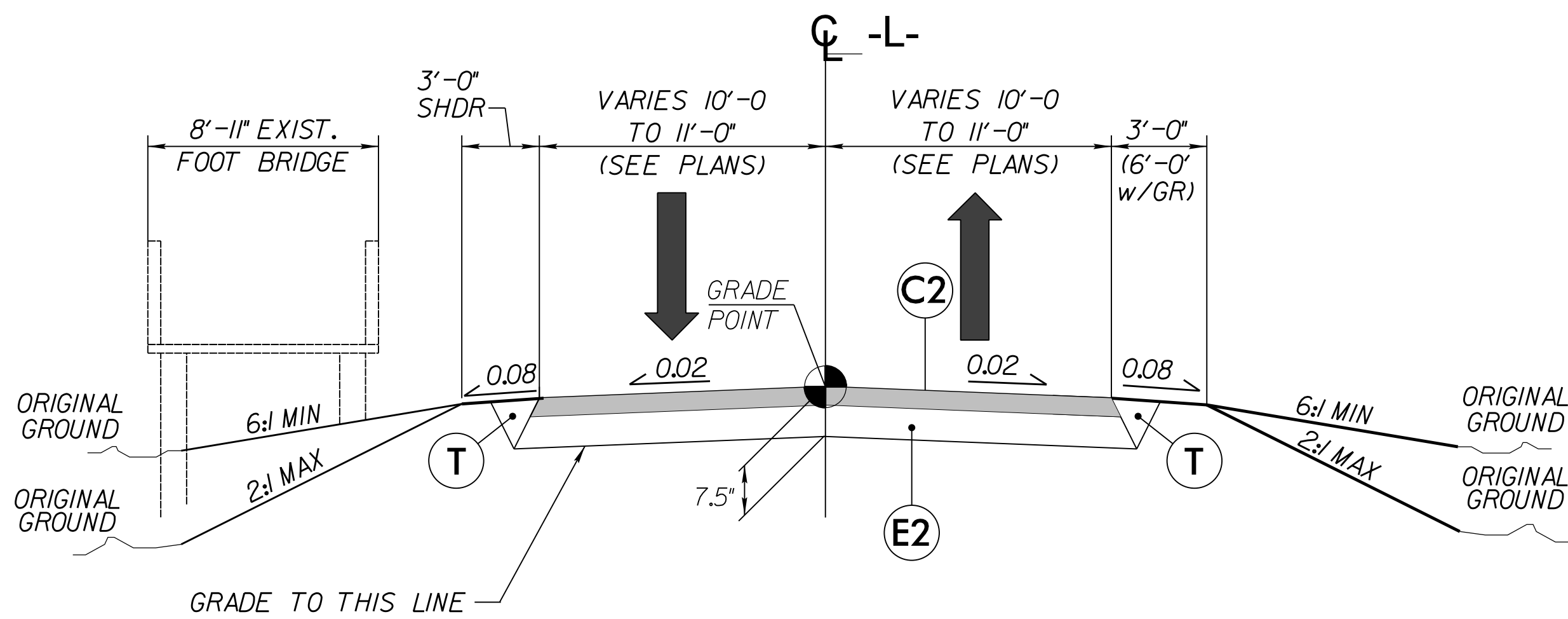
cc: J. D. Jennings, PE
C. W. Bridgers, Jr, PE
G. A. Byrum, PE
R. W. Midgett, PE

REVISED 7/16/2018



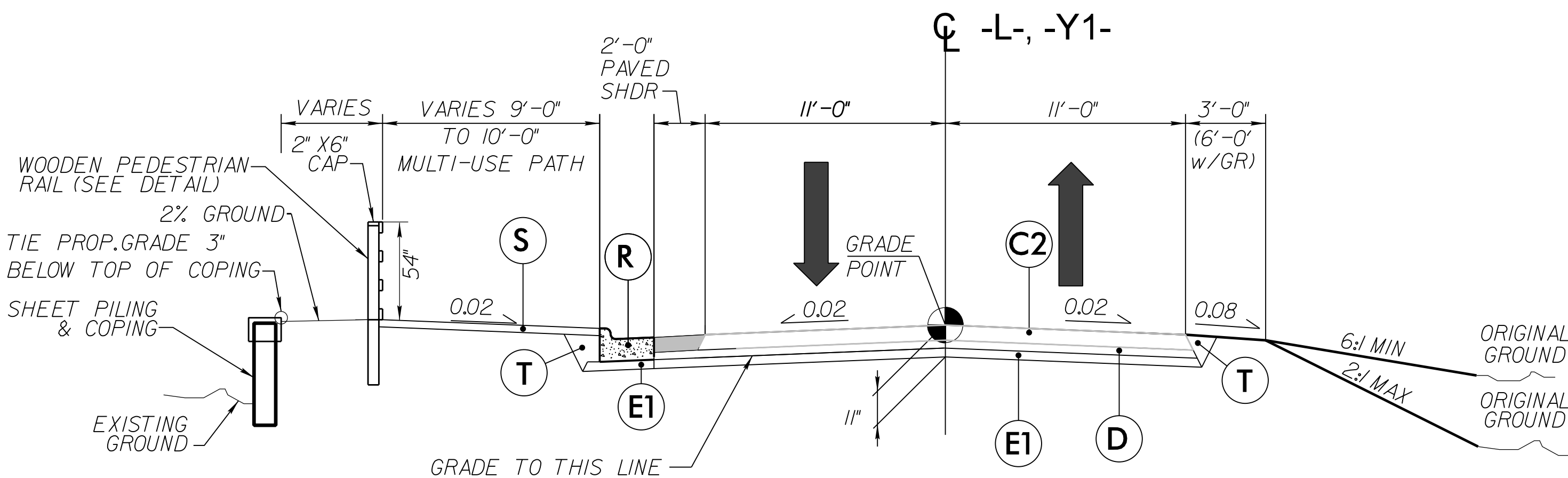
TYPICAL SECTION 1

-L- STA 10+00.00 TO -L- STA 40+25.67



TYPICAL SECTION 2

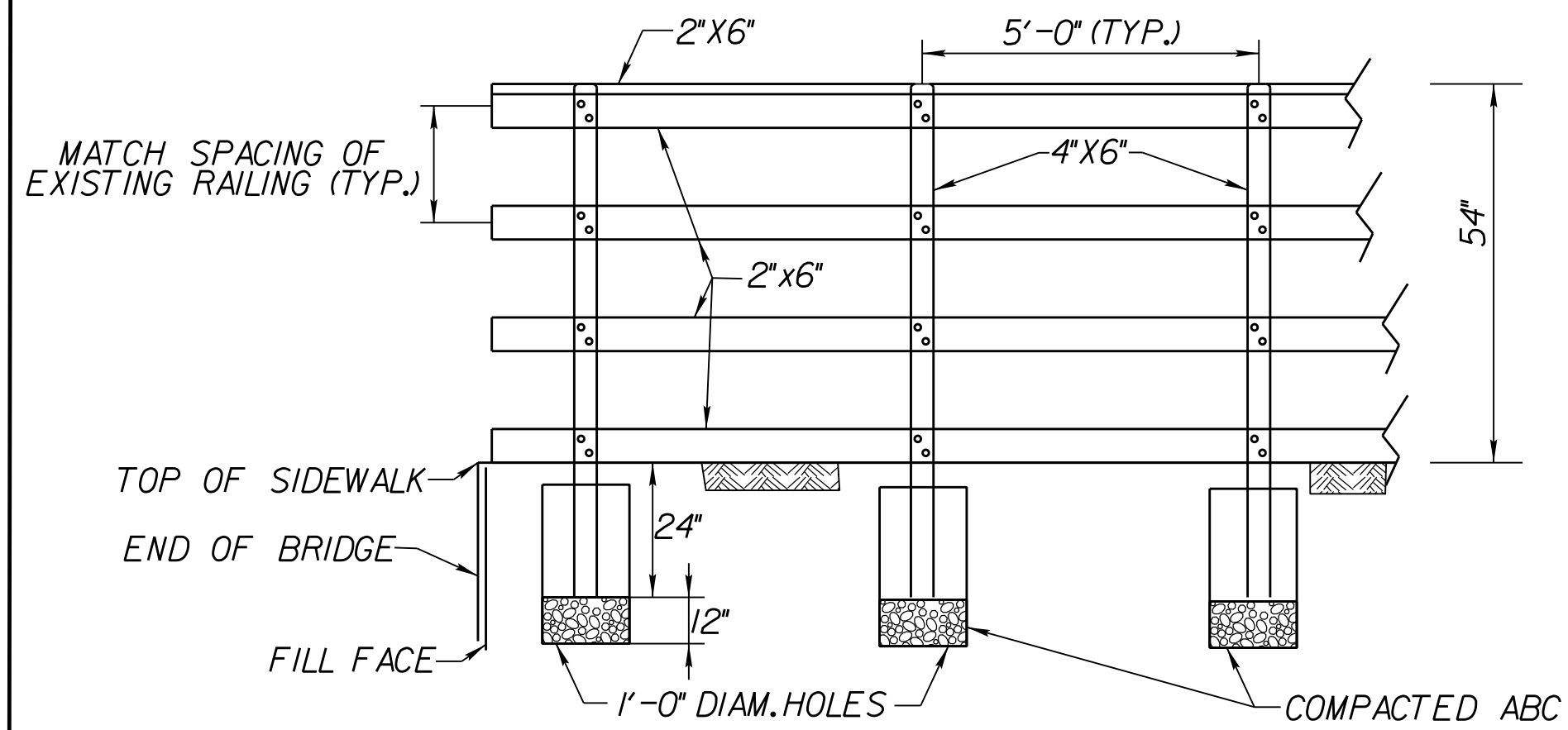
-L- STA 40+25.67 TO -L- STA 41+50.00



TYPICAL SECTION 3

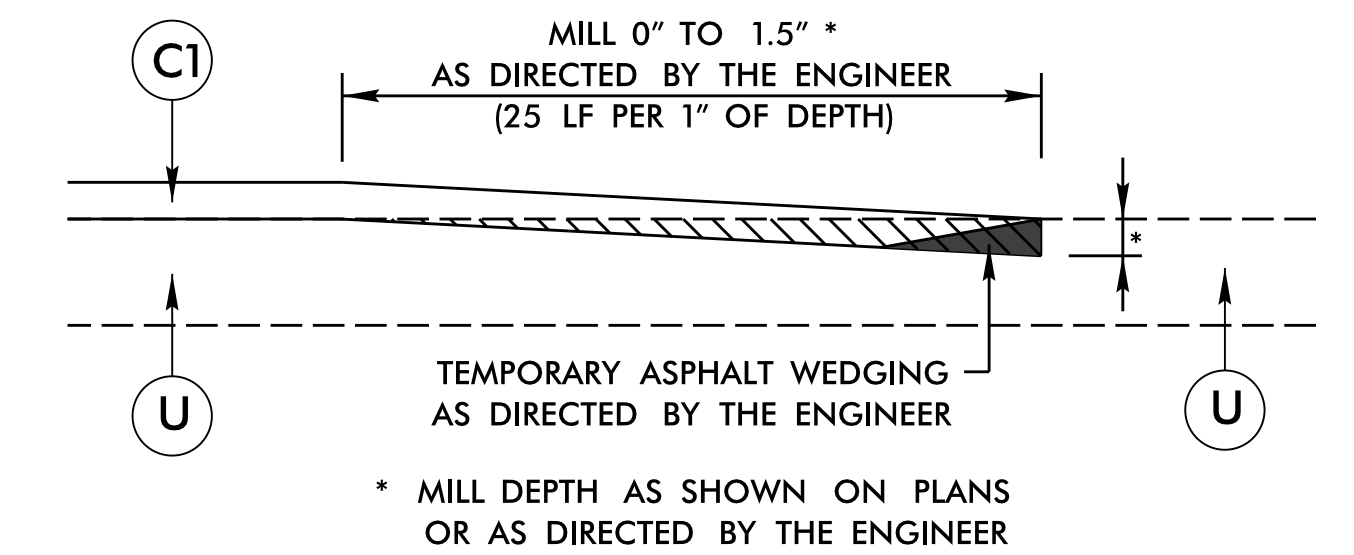
-L- STA 41+50.00 TO -L- STA 42+35.50 (BEGIN BRIDGE)
 -L- STA 43+00.50 (END BRIDGE) TO -L- STA 44+11.84
 -Y1- STA. 10+00.00 TO -Y1- STA. 10+73.26

WOODEN PEDESTRIAN RAIL ELEVATION



NOTE: ALL FASTENERS FOR WOODEN PEDESTRIAN RAILING SHALL BE #10 GALVANIZED FLAT HEAD SCREWS (OR APPROVED EQUIVALENT), OF SUFFICIENT LENGTH TO PROVIDE 2" PENETRATION INTO SUPPORTING MEMBER.

MILLED BUTT JOINT TIE-IN DETAIL (PROFILE)



Note: Pavement edge slopes are 1:1 unless shown otherwise.

PAVEMENT SCHEDULE

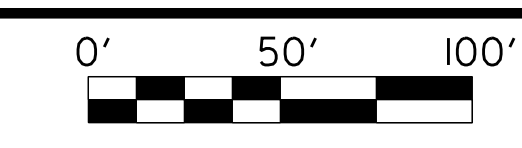
ITEM	DESCRIPTION
C1	Prop. Approx 1.5" Asphalt Concrete Surface Course, Type S9.5B, at an Average Rate of 168 lbs. Per sq. yard in one layer.
C2	Prop. Approx 3.0" Asphalt Concrete Surface Course, Type S9.5B, at an Average Rate of 168 lbs. Per sq. yard in two layers.
C3	Prop. Var. Depth Asphalt Concrete Surface Course, Type S9.5B, at an Average Rate of 112 lbs. Per sq. yard Per 1" Depth, to be placed in layers not less than 1.5" or greater than 2" in depth.
D	Prop. Approx 4" Asphalt Concrete Intermediate Course, Type I19.0C, at an Average Rate of 456 lbs. Per sq. yard.
E1	Prop. Approx 4" Asphalt Concrete Base Course, Type B25.0C, at an Average Rate of 456 lbs. Per sq. yard.
E2	Prop. Approx 4.5" Asphalt Concrete Base Course, Type B25.0C, at an Average Rate of 513 lbs. Per sq. yard.
E3	Prop. Approx 5.5" Asphalt Concrete Base Course, Type B25.0C, at an Average Rate of 627 lbs. Per sq. yard.
E4	Prop. Var. Depth Asphalt Concrete Base Course, Type B25.0C, at an Average Rate of 114 lbs. Per sq. yard Per 1" Depth, to be placed in layers not less than 4" or greater than 5.5" in depth.
J	6" Aggregate Base Course
R	2'-6" Curb and Gutter
S	4" Concrete Sidewalk
T	Earth Material
U	Existing Pavement
W	Var. Depth Asphalt Pavement

REVISIONS

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 CKE:cdj:tbj

PROJECT REFERENCE NO. R-5738	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

N.T.S.

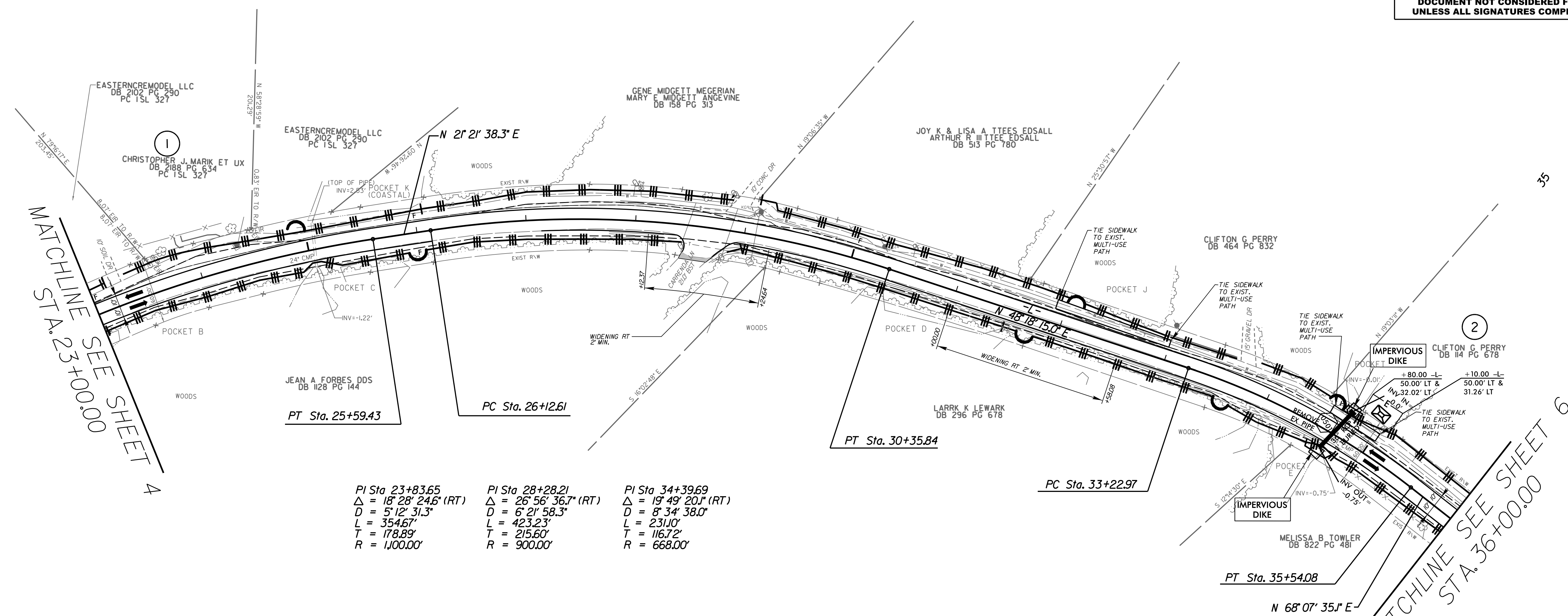
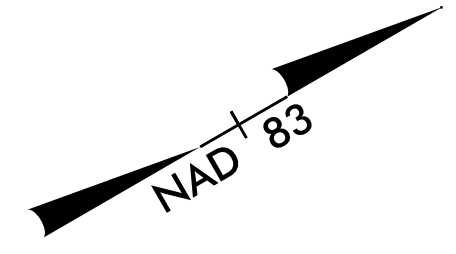


PROJECT REFERENCE NO. <i>R-5738</i>	SHEET NO. <i>EC-5/CONST 5</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISED 7/16/2018

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.



PI Sta 23+83.65 Δ = 18° 28' 24.6" (RT) D = 5' 12' 31.3" L = 354.67' T = 178.89' R = 1,000.00'	PI Sta 28+28.21 Δ = 26° 56' 36.7" (RT) D = 6' 21' 58.3" L = 423.23' T = 215.60' R = 900.00'	PI Sta 34+39.69 Δ = 19° 49' 20.1" (RT) D = 8' 34' 38.0" L = 231.0' T = 116.72' R = 668.00'
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Impervious Dike:

The work covered by this section consists of furnishing, installing, maintaining, and removing an impervious dike for the purpose of diverting normal stream flow around the construction site. The Contractor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as directed by the Engineer.

Acceptable materials shall include but not be limited to sheet piles, sandbags, and/or the placement of an acceptable size stone lined with polypropylene or other impervious fabric.

Earth material shall not be used to construct an impervious dike when it is in direct contact with the stream unless vegetation can be established before contact with the stream takes place.

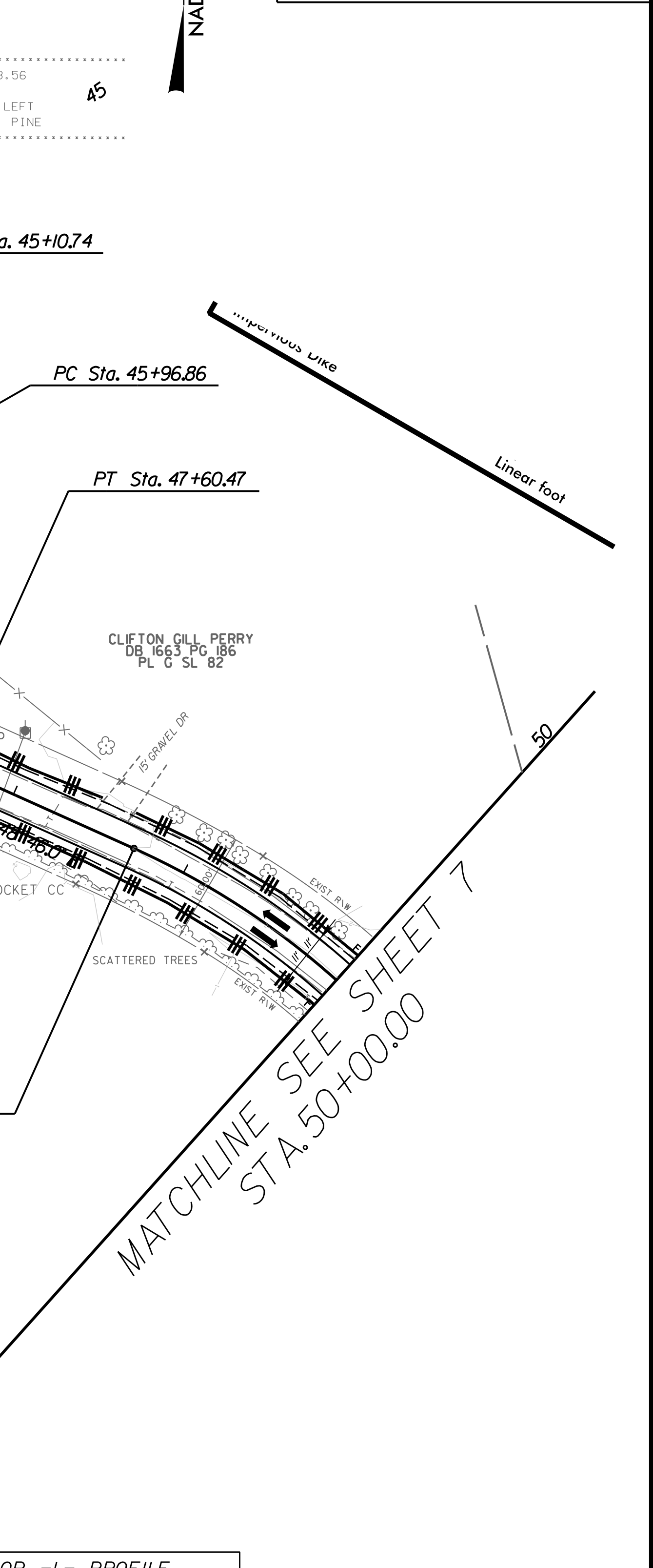
Measurement and Payment
Impervious Dike will be measured and paid as the actual number of linear feet of impervious dike(s) constructed, measured in place from end to end of each separate installation that has been completed and accepted. Such price and payment will be full compensation for all work including but not limited to furnishing materials, construction, maintenance, and removal of the impervious dike.

Payment will be made under:

Pay Item	Pay Unit
Impervious Dike	Linear foot

SEE SHEET 9 FOR -L- PROFILE

REVISIONS
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 CKE-rdy:tbl



REVISED 7/16/2018

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

REVISIONS

MATCHLINE SEE SHEET 5
STA. 36+00.00

MATCHLINE SEE SHEET 7
STA. 50+00.00

FLOATING TURBIDITY CURTAIN:

Description
This work consists of the installation of a Floating Turbidity Curtain to deter silt suspension and movement of silt particles during construction. The floating turbidity curtain shall be constructed at locations as directed.

Materials
The curtain material shall be made of a tightly woven nylon, plastic or other non-deteriorating material meeting the following specifications:

Property	Value
Grab tensile strength	*md-370 lbs *cd-250 lbs
Mullen burst strength	480 psi
Trapezoid tear strength	*md-100 lbs *cd-60 lbs
Apparent opening size	70 US standard sieve
Percent open area	4% permittivity 0.28 sec-1

*md - machine direction
*cd - cross machine direction

In the event that more than one width of fabric is required, a 6" overlap of the material shall also be required.

The curtain material shall be supported by a flotation material having over 29 lbsft buoyancy. The floating curtain shall have a 5/16" galvanized chain as ballast and dual 5/16" galvanized wire ropes with a heavy vinyl coating as load lines.

Construction Methods
The Contractor shall maintain the Floating Turbidity Curtain in a satisfactory condition until its removal is requested by the Engineer.

Measurement and Payment
Floating Turbidity Curtain will be measured and paid for as the actual number of square yards of curtain furnished as specified and accepted. Such price and payment will be full compensation for the work as described in this section including but not limited to furnishing all materials, tools, equipment, and all incidentals necessary to complete the work.

Pay Item	Pay Unit
Floating Turbidity Curtain	Square Yard

Impervious Dike:

The work covered by this section consists of furnishing, installing, maintaining, and removing an impervious dike for the purpose of diverting normal stream flow around the construction site. The Contractor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as directed by the Engineer.

Acceptable materials shall include but not be limited to sheet piles, sandbags, and/or the placement of an acceptable size stone lined with polypropylene or other impervious fabric.

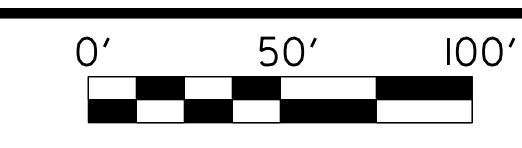
Earth material shall not be used to construct an impervious dike when it is in direct contact with the stream unless vegetation can be established before contact with the stream takes place.

Measurement and Payment
Impervious Dike will be measured and paid as the actual number of linear feet of impervious dike(s) constructed, measured in place from end to end of each separate installation that has been completed and accepted. Such price and payment will be full compensation for all work including but not limited to furnishing materials, construction, maintenance, and removal of the impervious dike.

Pay Item	Pay Unit
Impervious Dike	Linear foot

SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 11 FOR -YI- AND -DRI- PROFILES

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PROJECT REFERENCE NO.	SHEET NO.
R-5738	EC-7/CONST 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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UNLESS ALL SIGNATURES COMPLETED**

REVISED 7/16/2018

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7**

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

Impervious Dike:

The work covered by this section consists of furnishing, installing, maintaining, and removing an impervious dike for the purpose of diverting normal stream flow around the construction site. The Contractor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as directed by the Engineer.

Acceptable materials shall include but not be limited to sheet piles, sandbags, and/or the placement of an acceptable size stone lined with polypropylene or other impervious fabric.

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Measurement and Payment
Impervious Dike will be measured and paid as the actual number of linear feet of impervious dike(s) constructed, measured in place from end to end of each separate installation that has been completed and accepted. Such price and payment will be full compensation for all work including but not limited to furnishing materials, construction, maintenance, and removal of the impervious dike.
Payment will be made under:
Pay Item Impervious Dike Pay Unit Linear foot

FLOATING TURBIDITY CURTAIN:

Description
This work consists of the installation of a Floating Turbidity Curtain to deter silt suspension and movement of silt particles during construction. The floating turbidity curtain shall be constructed at locations as directed.

Materials
The curtain material shall be made of a tightly woven nylon, plastic or other non-deteriorating material meeting the following specifications:

Property	Value
Grab tensile strength	*md-370 lbs *cd-250 lbs
Mullen burst strength	480 psi
Trapezoid tear strength	*md-100 lbs *cd-60 lbs
Apparent opening size	70 US standard sieve
Percent open area	4% permittivity 0.28 sec-1

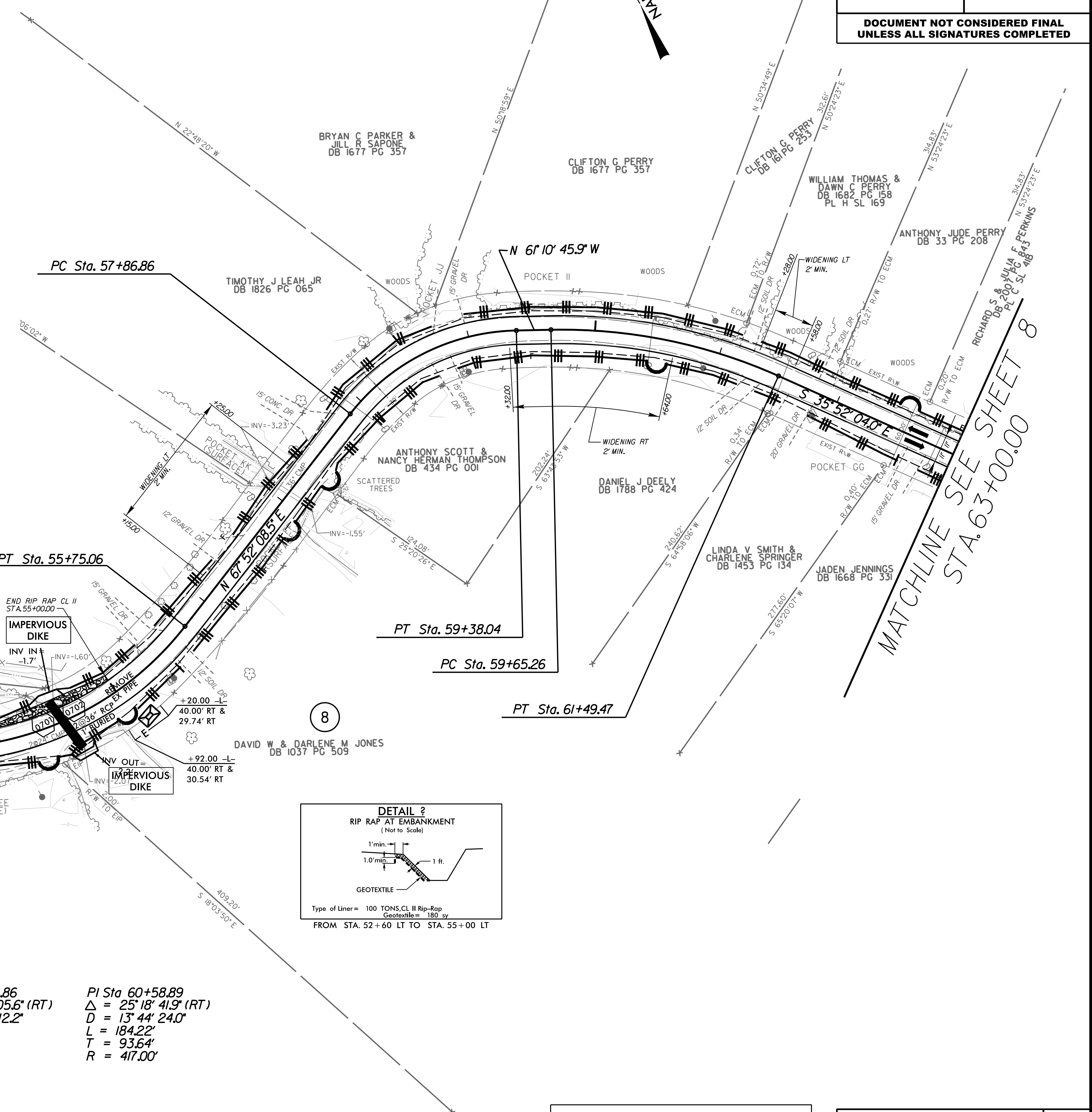
*md - machine direction
*cd - cross machine direction

In the event that more than one width of fabric is required, a 6" overlap of the material shall also be required.

The curtain material shall be supported by a flotation material having over 29 lbs/ft buoyancy. The floating curtain shall have a 5/16" galvanized chain as ballast and dual 5/16" galvanized wire ropes with a heavy vinyl coating as load lines.

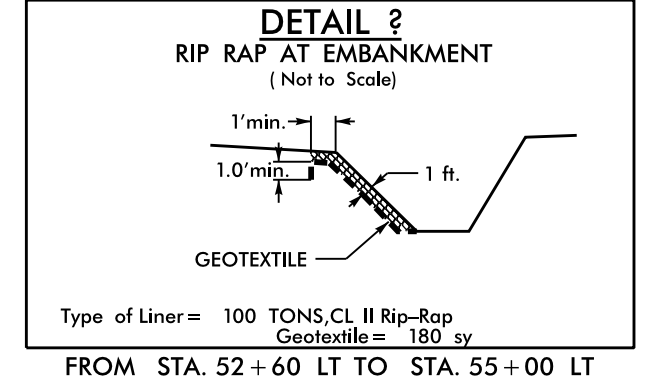
Construction Methods
The Contractor shall maintain the Floating Turbidity Curtain in a satisfactory condition until its removal is requested by the Engineer.

Measurement and Payment
Floating Turbidity Curtain will be measured and paid for as the actual number of square yards of curtain furnished as specified and accepted. Such price and payment will be full compensation for the work as described in this section including but not limited to furnishing all materials, tools, equipment, and all incidentals necessary to complete the work.
Payment will be made under:
Pay Item Floating Turbidity Curtain Pay Unit Square Yard



MATCHLINE SEE SHEET 7
STA. 50+00.00

MATCHLINE SEE SHEET 8
STA. 63+00.00

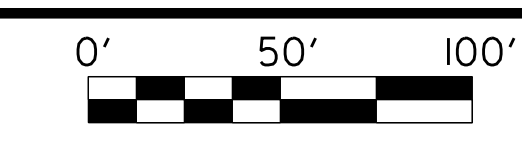


PI Sta 50+05.94 $\Delta = 35' 44" 25.9"$ (RT) $D = 13' 38" 30.7"$ $L = 261.99'$ $T = 135.42'$ $R = 420.00'$	PI Sta 54+35.68 $\Delta = 82' 03" 31.4"$ (LT) $D = 23' 06" 11.3"$ $L = 355.18'$ $T = 215.81'$ $R = 248.00'$	PI Sta 58+67.86 $\Delta = 50' 57" 05.6"$ (RT) $D = 33' 42" 12.2"$ $L = 151.18'$ $T = 81.00'$ $R = 170.00'$	PI Sta 60+58.89 $\Delta = 25' 18" 41.9"$ (RT) $D = 13' 44" 24.0"$ $L = 184.22'$ $T = 93.64'$ $R = 417.00'$
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SEE SHEET 10 FOR -L- PROFILE

REVISIONS

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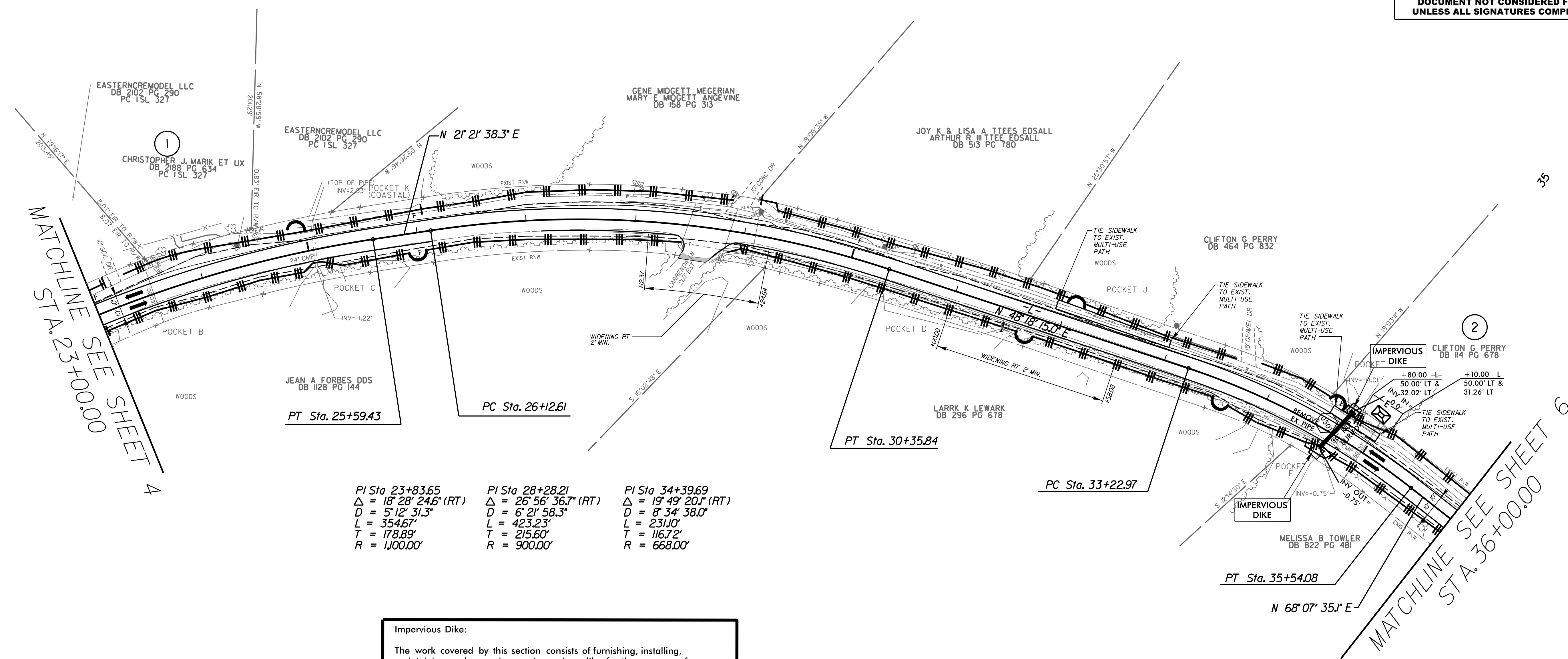
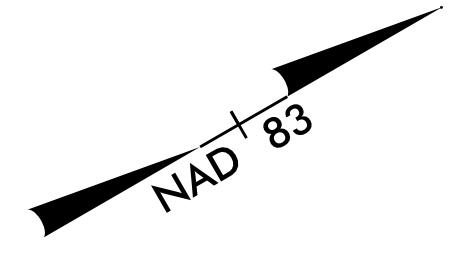


PROJECT REFERENCE NO. R-5738	SHEET NO. EC-10/CONST 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISED 7/16/2018

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.



PI Sta 23+83.65 Δ = 18° 28' 24.6" (RT) D = 5' 12' 31.3" L = 354.67' T = 178.89' R = 1,000.00'	PI Sta 28+28.21 Δ = 26° 56' 36.7" (RT) D = 6' 21' 58.3" L = 423.23' T = 215.60' R = 900.00'	PI Sta 34+39.69 Δ = 19° 49' 20.1" (RT) D = 8' 34' 38.0" L = 231.0' T = 116.72' R = 668.00'
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Impervious Dike:

The work covered by this section consists of furnishing, installing, maintaining, and removing an impervious dike for the purpose of diverting normal stream flow around the construction site. The Contractor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as directed by the Engineer.

Acceptable materials shall include but not be limited to sheet piles, sandbags, and/or the placement of an acceptable size stone lined with polypropylene or other impervious fabric.

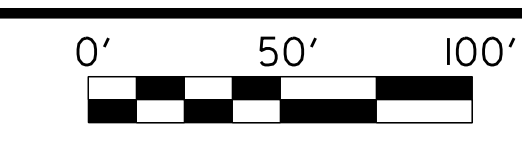
Earth material shall not be used to construct an impervious dike when it is in direct contact with the stream unless vegetation can be established before contact with the stream takes place.

Measurement and Payment
Impervious Dike will be measured and paid as the actual number of linear feet of impervious dike(s) constructed, measured in place from end to end of each separate installation that has been completed and accepted. Such price and payment will be full compensation for all work including but not limited to furnishing materials, construction, maintenance, and removal of the impervious dike.
Payment will be made under:

Pay Item	Pay Unit
Impervious Dike	Linear foot

SEE SHEET 9 FOR -L- PROFILE

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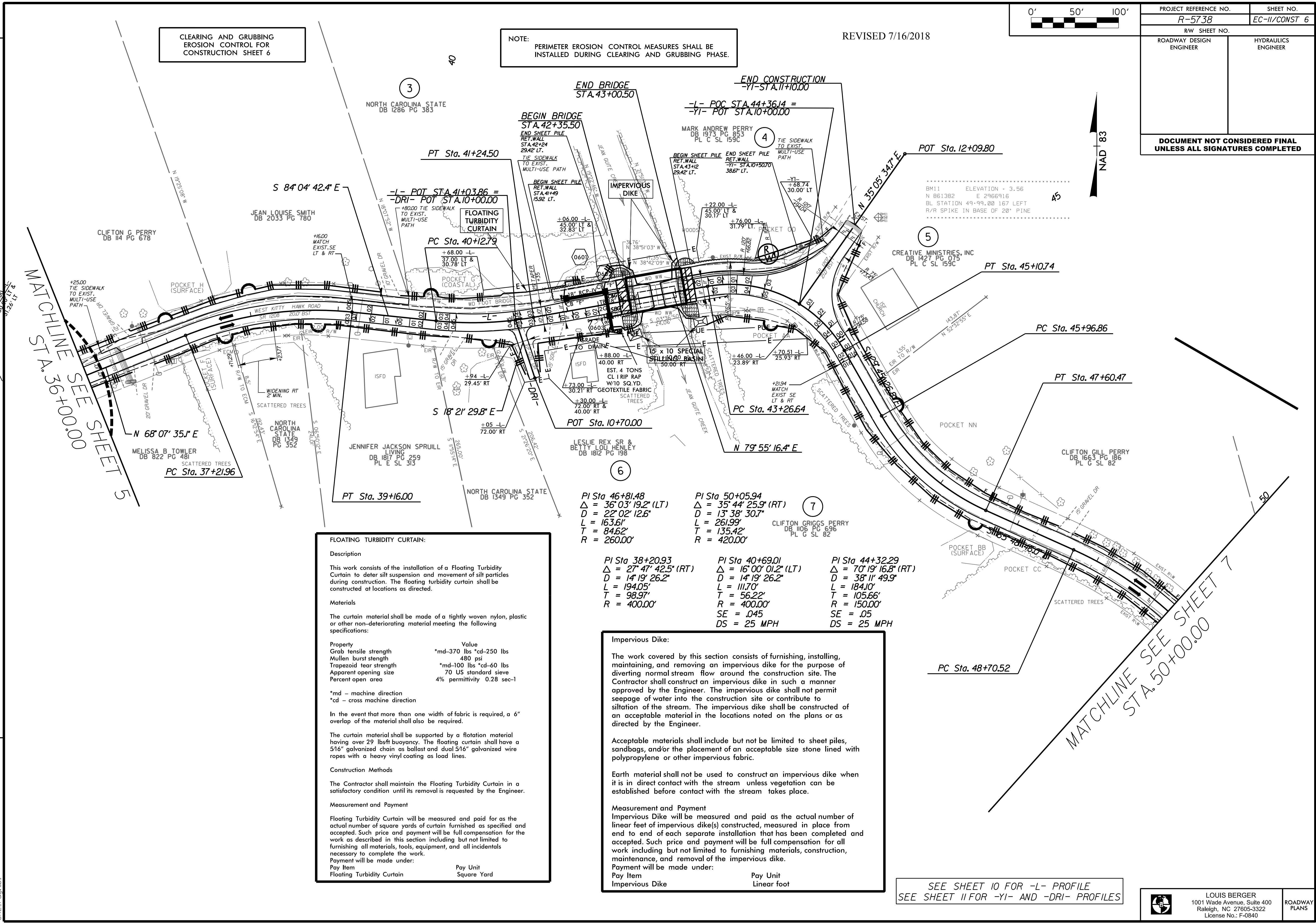


PROJECT REFERENCE NO. R-5738	SHEET NO. EC-II/CONST 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISED 7/16/2018

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6



FLOATING TURBIDITY CURTAIN:

Description
This work consists of the installation of a Floating Turbidity Curtain to deter silt suspension and movement of silt particles during construction. The floating turbidity curtain shall be constructed at locations as directed.

Materials
The curtain material shall be made of a tightly woven nylon, plastic or other non-deteriorating material meeting the following specifications:

Property	Value
Grab tensile strength	*md-370 lbs *cd-250 lbs
Mullen burst strength	480 psi
Trapezoid tear strength	*md-100 lbs *cd-60 lbs
Apparent opening size	70 US standard sieve
Percent open area	4% permittivity 0.28 sec-1

*md - machine direction
*cd - cross machine direction

In the event that more than one width of fabric is required, a 6" overlap of the material shall also be required.

The curtain material shall be supported by a flotation material having over 29 lbsft buoyancy. The floating curtain shall have a 5/16" galvanized chain as ballast and dual 5/16" galvanized wire ropes with a heavy vinyl coating as load lines.

Construction Methods
The Contractor shall maintain the Floating Turbidity Curtain in a satisfactory condition until its removal is requested by the Engineer.

Measurement and Payment
Floating Turbidity Curtain will be measured and paid for as the actual number of square yards of curtain furnished as specified and accepted. Such price and payment will be full compensation for the work as described in this section including but not limited to furnishing all materials, tools, equipment, and all incidentals necessary to complete the work.
Payment will be made under:
Pay Item: Floating Turbidity Curtain
Pay Unit: Square Yard

Impervious Dike:

The work covered by this section consists of furnishing, installing, maintaining, and removing an impervious dike for the purpose of diverting normal stream flow around the construction site. The Contractor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as directed by the Engineer.

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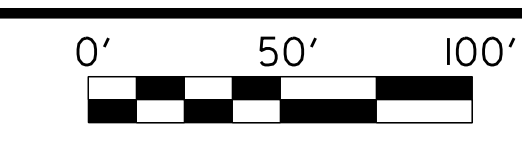
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Measurement and Payment
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Payment will be made under:
Pay Item: Impervious Dike
Pay Unit: Linear foot

SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 11 FOR -YI- AND -DRI- PROFILES

REVISIONS

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PROJECT REFERENCE NO. R-5738	SHEET NO. EC-12/CONST 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

Impervious Dike:

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Payment will be made under:
Pay Item: Impervious Dike
Pay Unit: Linear foot

FLOATING TURBIDITY CURTAIN:

Description
This work consists of the installation of a Floating Turbidity Curtain to deter silt suspension and movement of silt particles during construction. The floating turbidity curtain shall be constructed at locations as directed.

Materials
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Property	Value
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Trapezoid tear strength	*md-100 lbs *cd-60 lbs
Apparent opening size	70 US standard sieve
Percent open area	4% permittivity 0.28 sec-1

*md - machine direction
*cd - cross machine direction

In the event that more than one width of fabric is required, a 6" overlap of the material shall also be required.

The curtain material shall be supported by a flotation material having over 29 lbs/ft buoyancy. The floating curtain shall have a 5/16" galvanized chain as ballast and dual 5/16" galvanized wire ropes with a heavy vinyl coating as load lines.

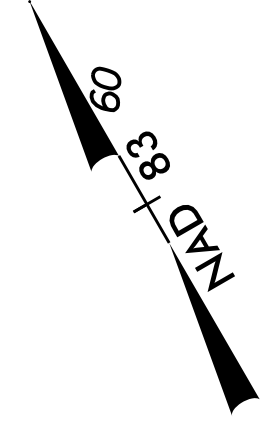
Construction Methods
The Contractor shall maintain the Floating Turbidity Curtain in a satisfactory condition until its removal is requested by the Engineer.

Measurement and Payment
Floating Turbidity Curtain will be measured and paid for as the actual number of square yards of curtain furnished as specified and accepted. Such price and payment will be full compensation for the work as described in this section including but not limited to furnishing all materials, tools, equipment, and all incidentals necessary to complete the work.
Payment will be made under:
Pay Item: Floating Turbidity Curtain
Pay Unit: Square Yard

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7**

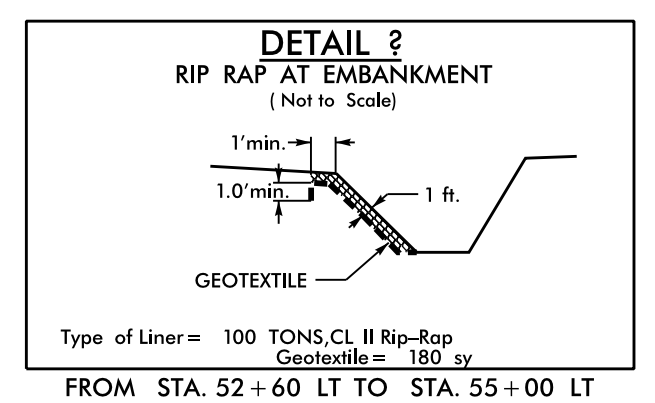
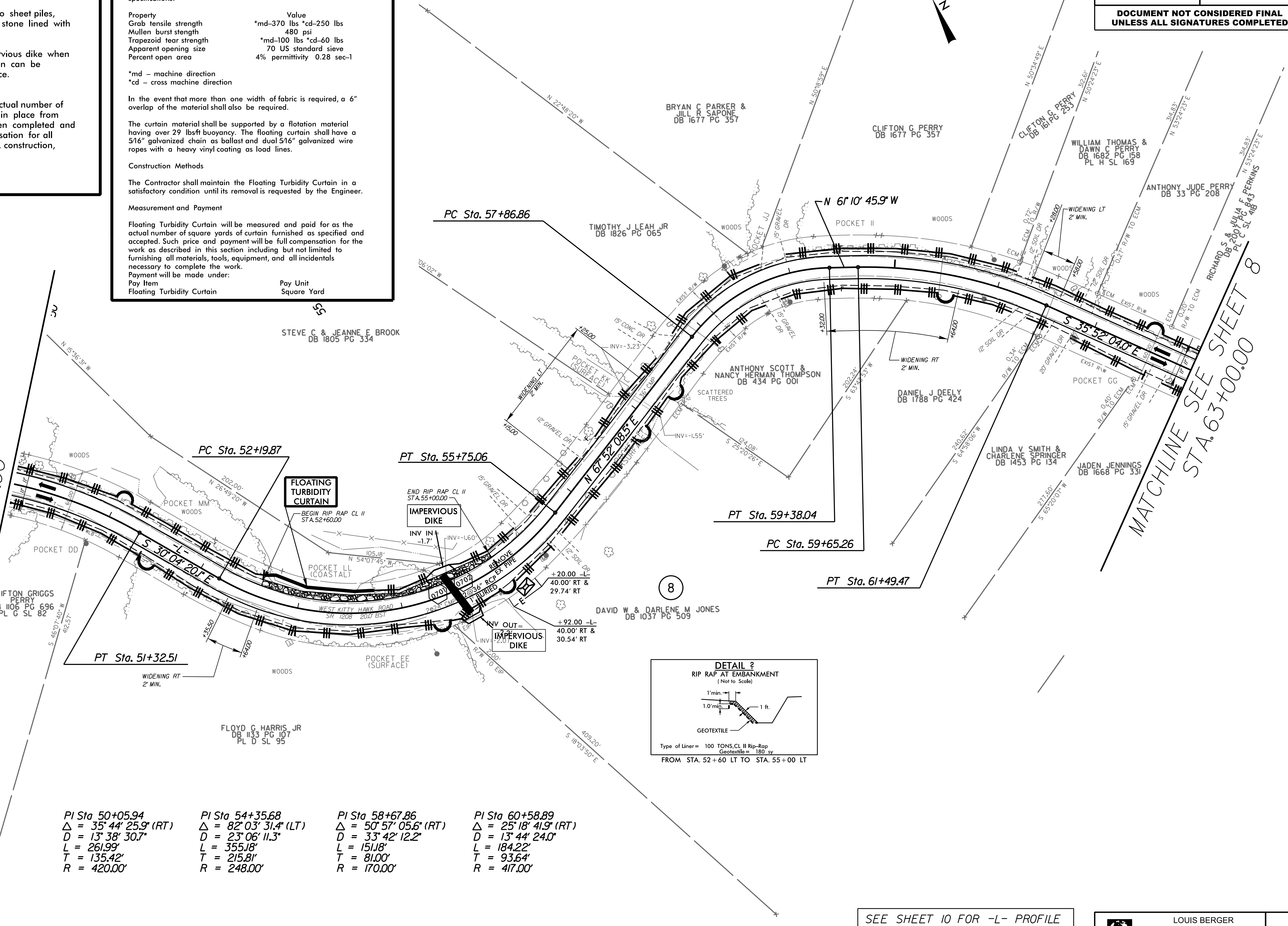
NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

REVISED 7/16/2018



MATCHLINE SEE SHEET 7
STA. 50+00.00

MATCHLINE SEE SHEET 8
STA. 63+00.00



PI Sta 50+05.94 $\Delta = 35' 44" 25.9"$ (RT) $D = 13' 38" 30.7"$ $L = 261.99'$ $T = 135.42'$ $R = 420.00'$	PI Sta 54+35.68 $\Delta = 82' 03" 31.4"$ (LT) $D = 23' 06" 11.3"$ $L = 355.18'$ $T = 215.81'$ $R = 248.00'$	PI Sta 58+67.86 $\Delta = 50' 57" 05.6"$ (RT) $D = 33' 42" 12.2"$ $L = 151.8'$ $T = 81.00'$ $R = 170.00'$	PI Sta 60+58.89 $\Delta = 25' 18" 41.9"$ (RT) $D = 13' 44" 24.0"$ $L = 184.22'$ $T = 93.64'$ $R = 417.00'$
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SEE SHEET 10 FOR -L- PROFILE

REVISIONS

7/16/2018 12:08:05 PM G:\Projects\12007-2016\NCDDT_Eastern_Region\F&D\R-5738\EC-12_PSH.dgn CKE:rdj:tbl