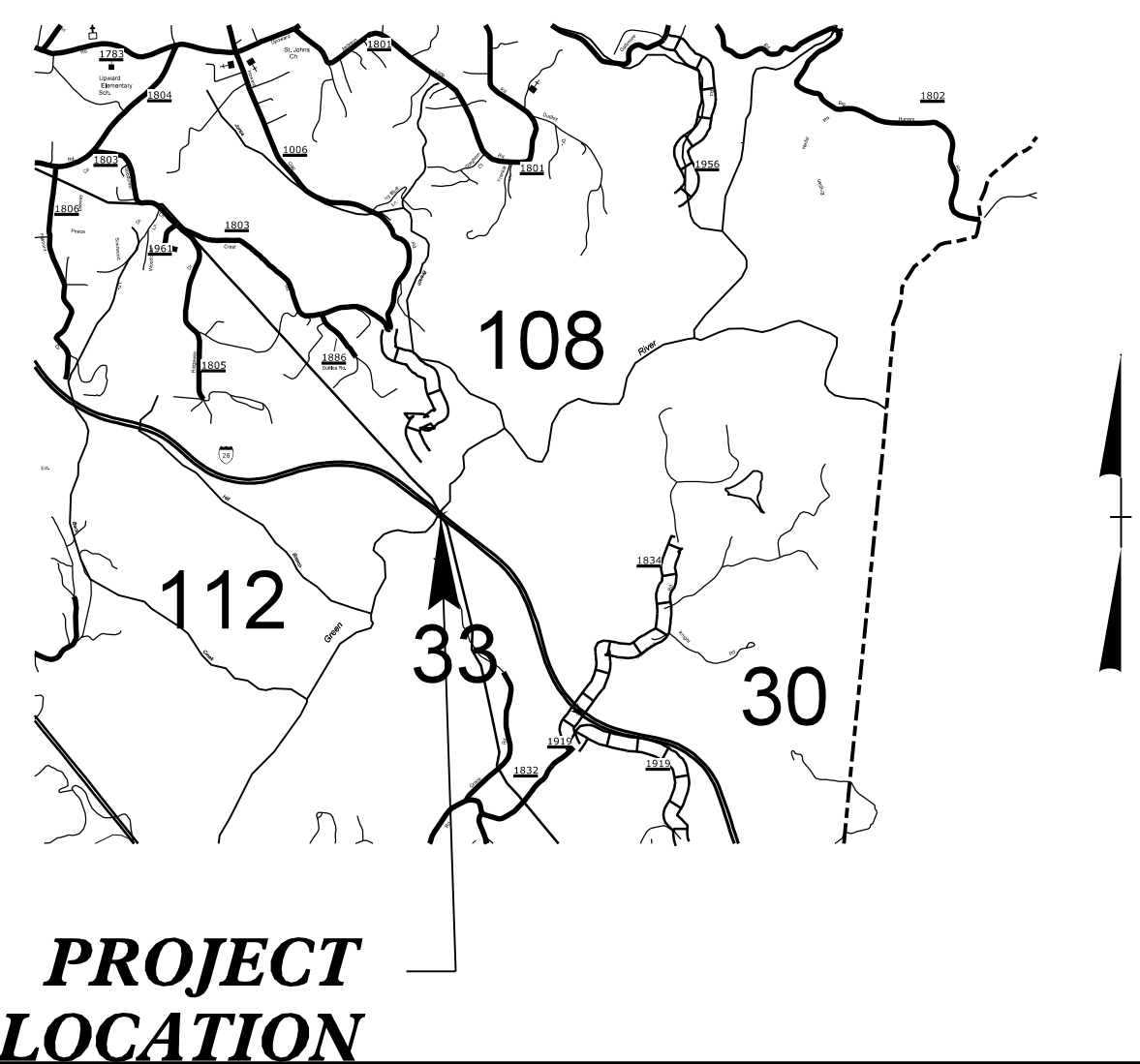


CONTRACT: C204202 TIP PROJECT: 15BPR.20



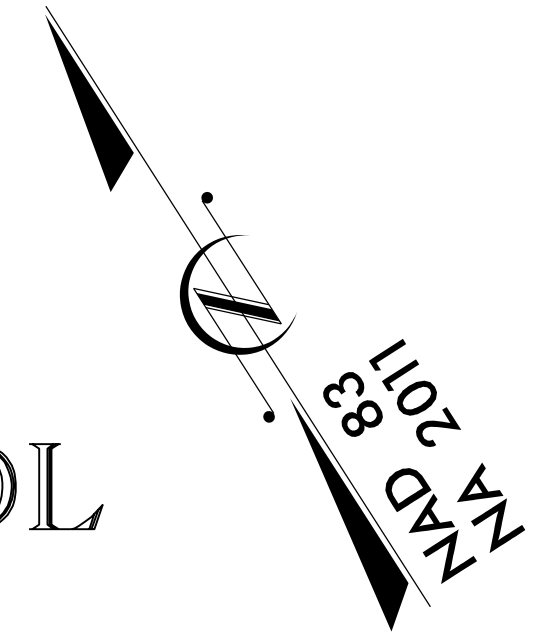
PROJECT LOCATION

VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
HENDERSON COUNTY

**LOCATION: RECONSTRUCT I-26 BRIDGES
OVER GREEN RIVER**

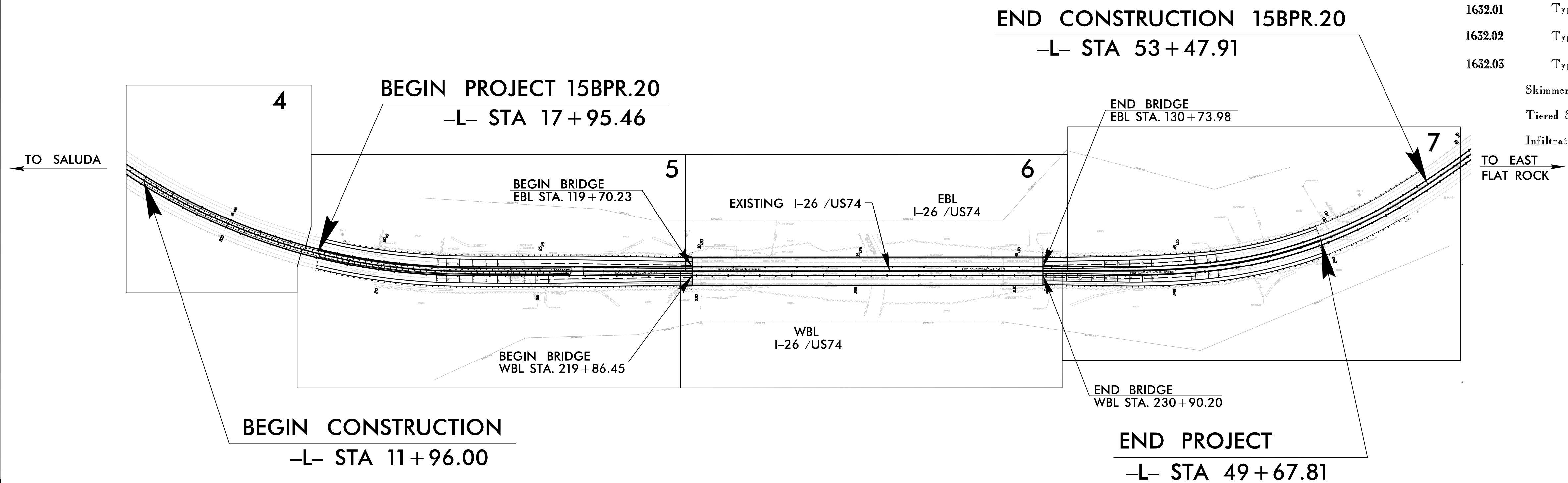
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	15BPR.20	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

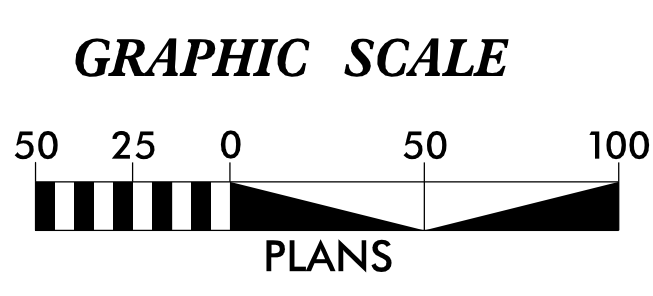
Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TSO
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	— T —
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary Rock Silt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



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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
Refer To E. C. Special Provisions for Special Considerations.



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:
AECOM
Firm License No. F-0342
701 Corporate Center Drive, Suite 475
Raleigh NC 27607
(919) 854-6200 (919) 854-6259 (Fax)

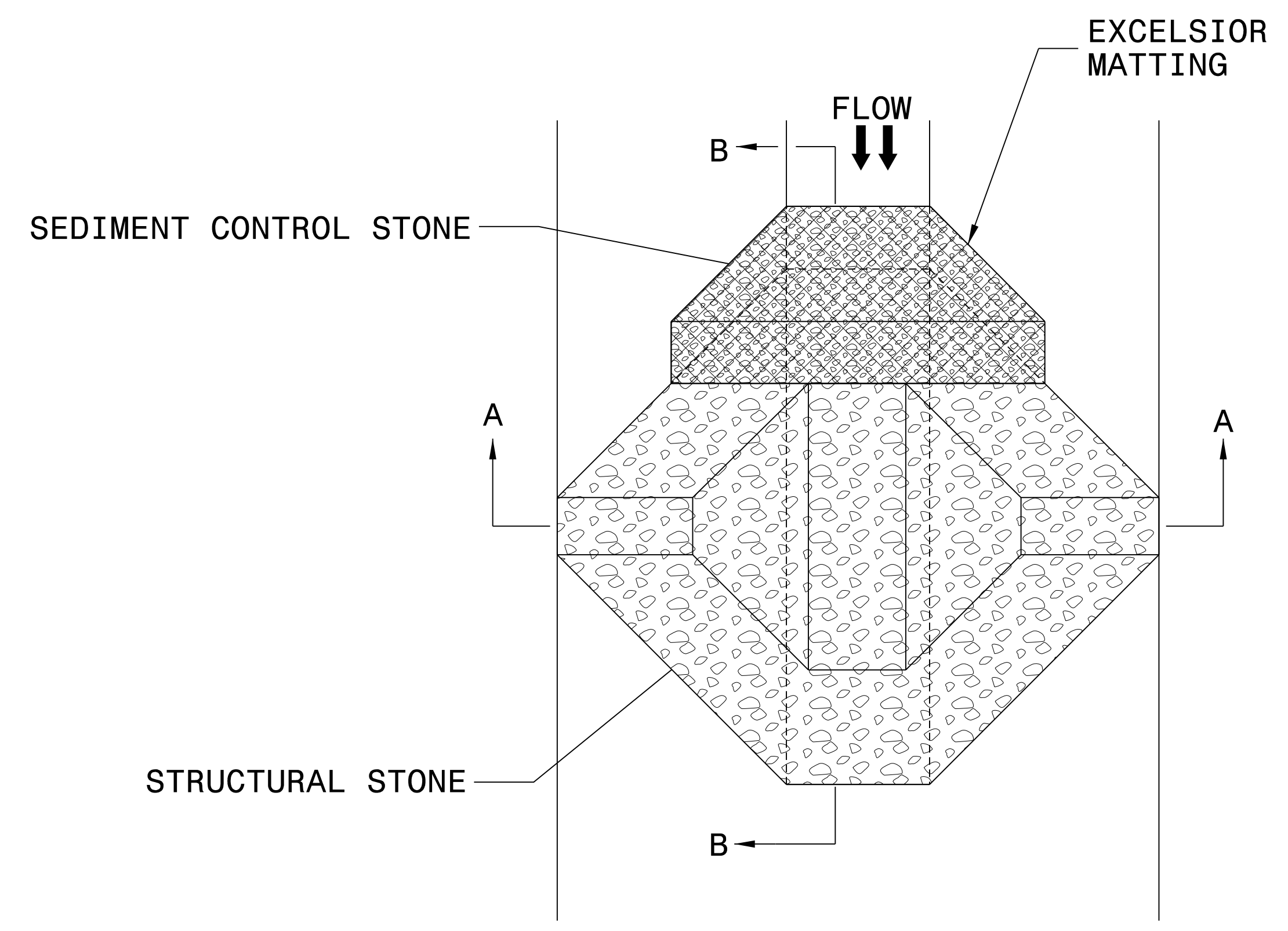
Designed by:
RENE REMY, CPESC, CPSWQ 3125
NAME LEVEL III CERTIFICATION NO.

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 revision 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	

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



PLAN

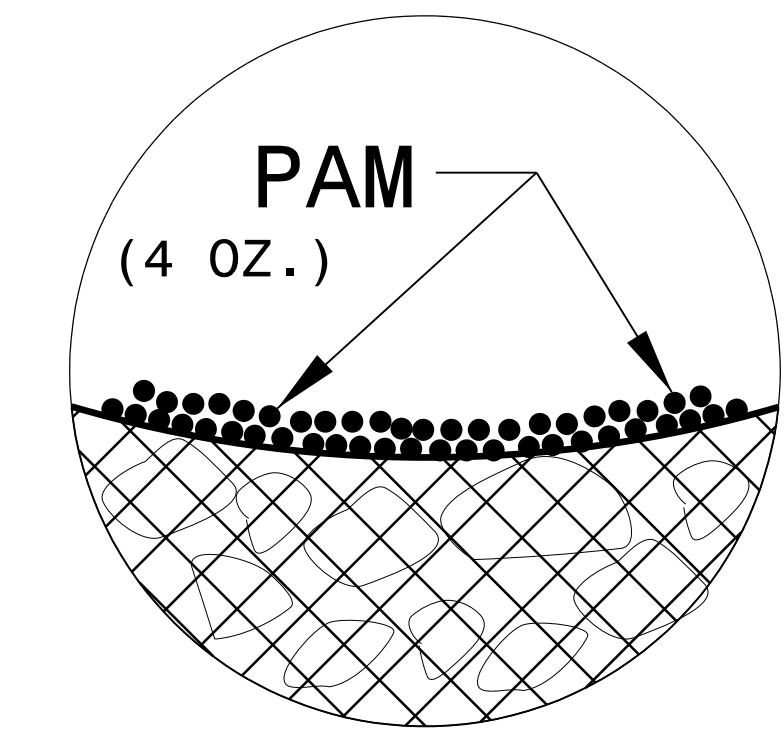
NOTES:

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

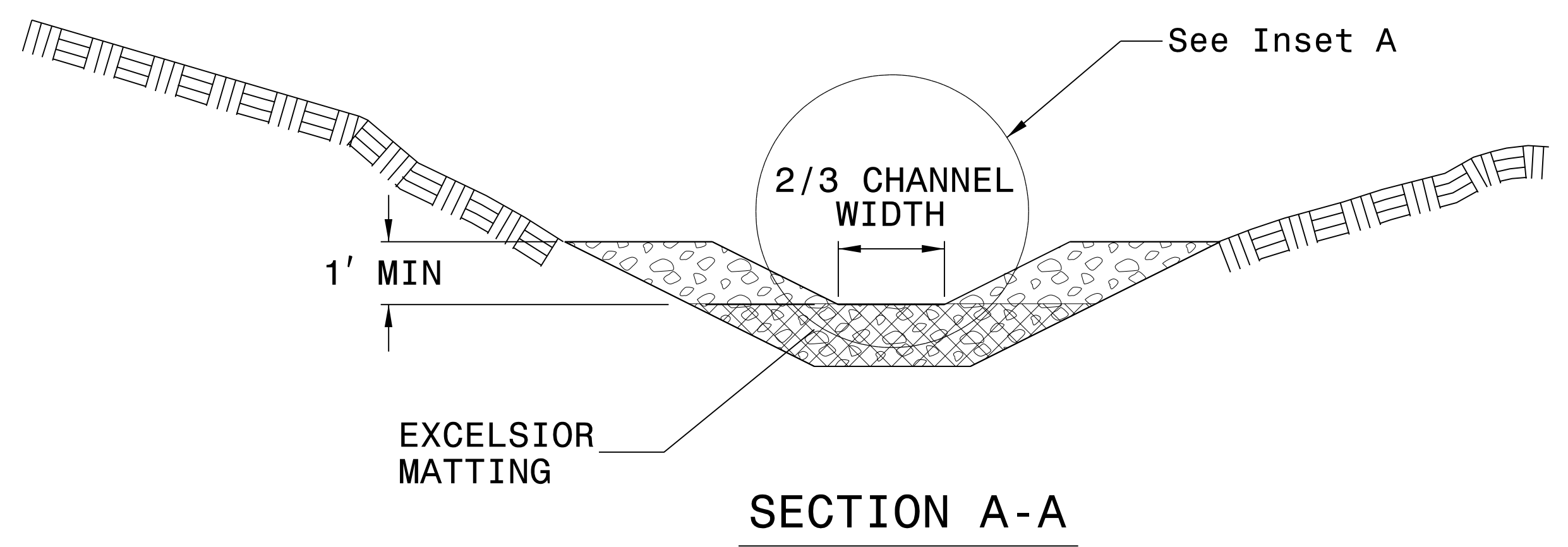
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

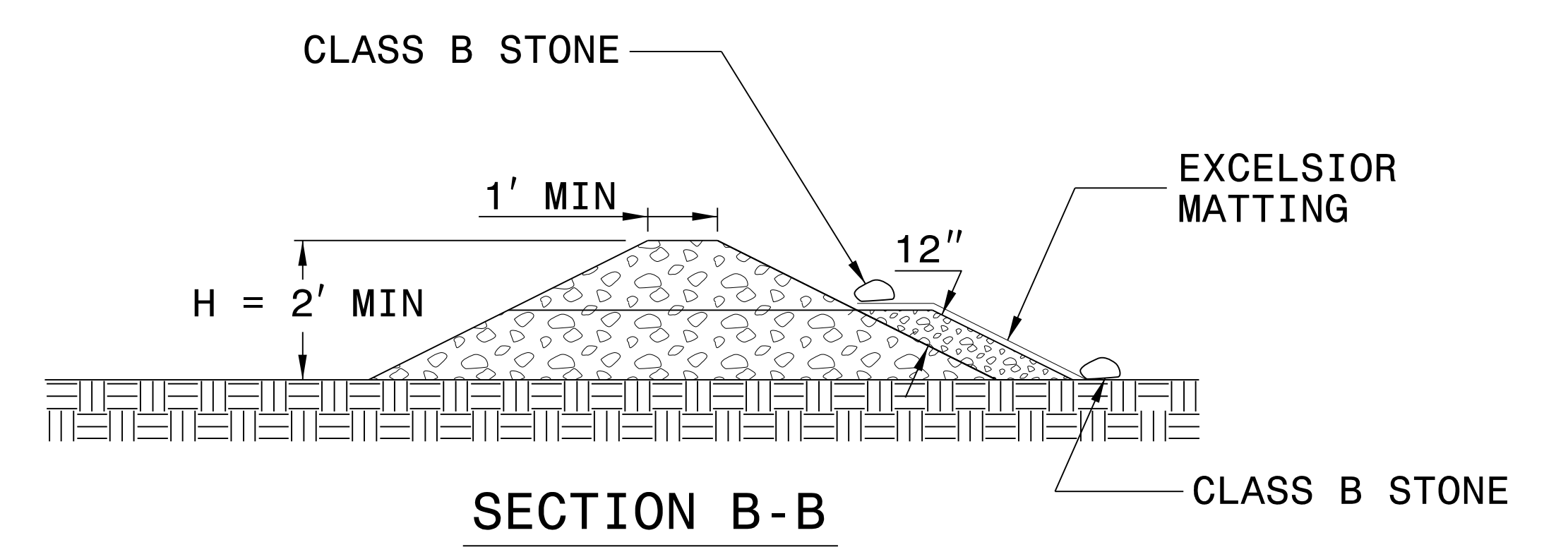
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
15BPR.20	EC-03A
RW SHEET NO.	
<small>Prepared in the Office of:</small> AECOM	
<small>NC FIRM LICENSE No.F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)</small>	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

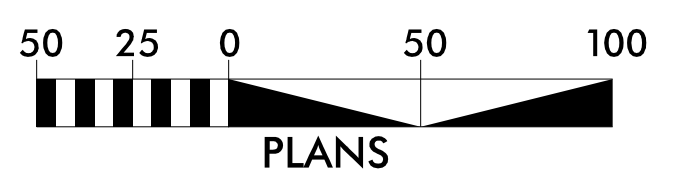
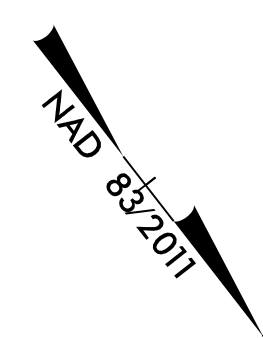
SOIL STABILIZATION TIMEFRAMES

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

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PROJECT REFERENCE NO.	SHEET NO.
15BPR.20	EC-04/CONST.4
RW SHEET NO.	
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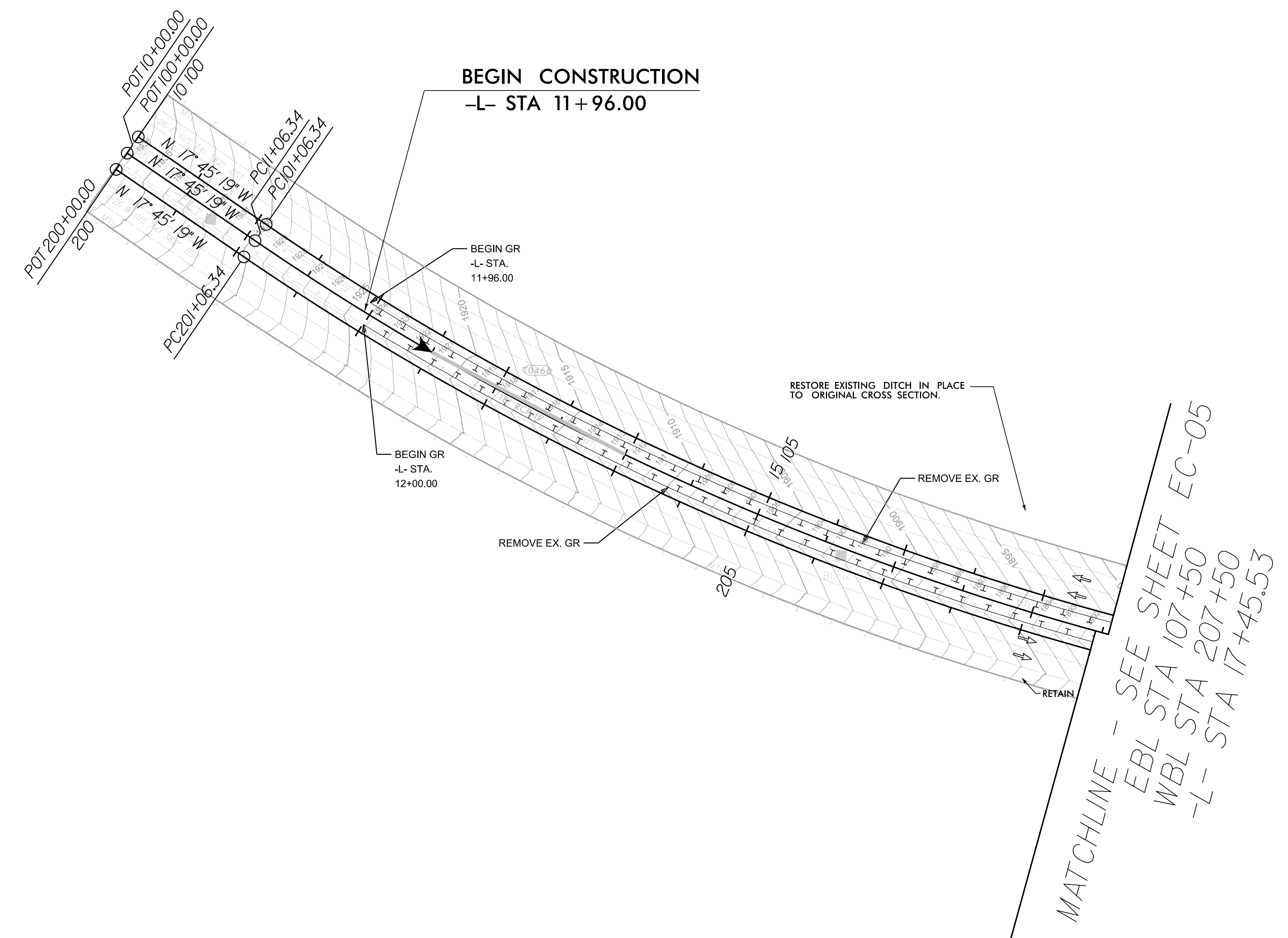


<u>Curve EBLI</u>	<u>Curve -L-L</u>	<u>Curve WBLI</u>
PI = 106+99.65	PI = 17+03.83	PI = 207+08.01
DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)
D = 2' 59" 23"	D = 2' 58" 07"	D = 2' 56" 53"
T = 593.32'	T = 597.50'	T = 601.68'
L = 1150.77'	L = 1158.87'	L = 1166.98'
R = 1916.50'	R = 1930.00'	R = 1943.50'
PC = 101+06.34	PC = 11+06.34	PC = 201+06.34
PT = 112+57.10	PT = 22+65.21	PT = 212+73.31
V = 60 MPH	V = 60 MPH	V = 60 MPH

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

19.75



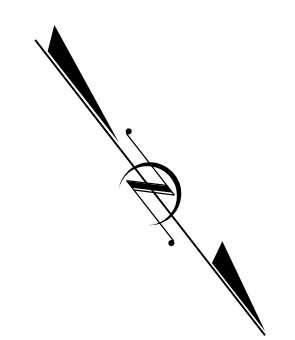
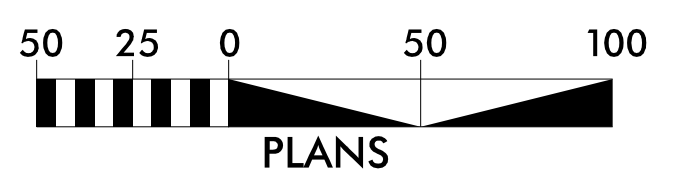
FOR EBL PROFILE SEE SHEET 8
FOR WBL PROFILE SEE SHEET 8

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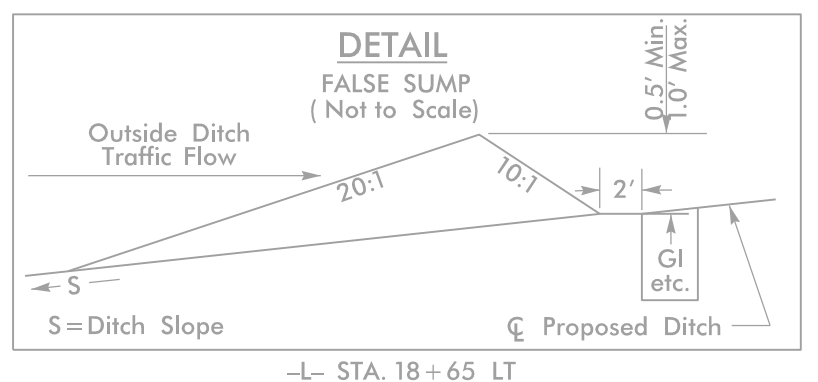
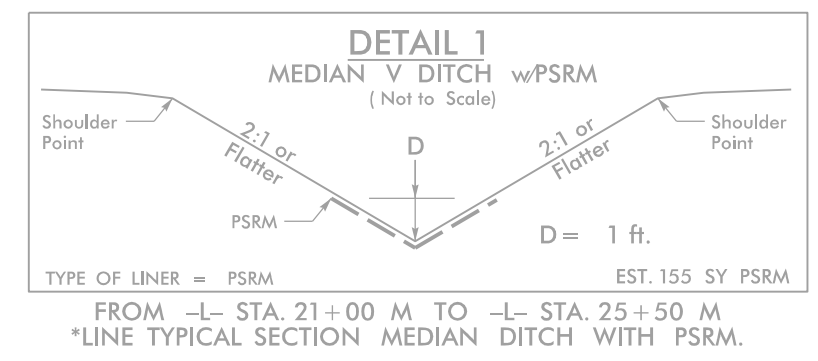
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
15BPR.20	EC-05/CONST.05
RW SHEET NO.	

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<u>Curve EBLI</u>	<u>Curve -L-I</u>	<u>Curve WBLI</u>
PI = 106+99.65	PI = 17+03.83	PI = 207+08.01
DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)
D = 2' 59' 23"	D = 2' 58' 07"	D = 2' 56' 53"
T = 593.32'	T = 597.50'	T = 601.68'
L = 1150.77'	L = 1158.87'	L = 1166.98'
R = 1916.50'	R = 1930.00'	R = 1943.50'
PC = 101+06.34	PC = 11+06.34	PC = 201+06.34
PT = 112+57.10	PT = 22+65.21	PT = 212+73.31
V = 60 MPH	V = 60 MPH	V = 60 MPH



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

Utilize Fabric Insert Inlet Protection Devices in Lieu of Rock Inlet Sediment Traps, Type -C as Directed to Avoid Impoundment of Runoff in Roadway Open to Traffic.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

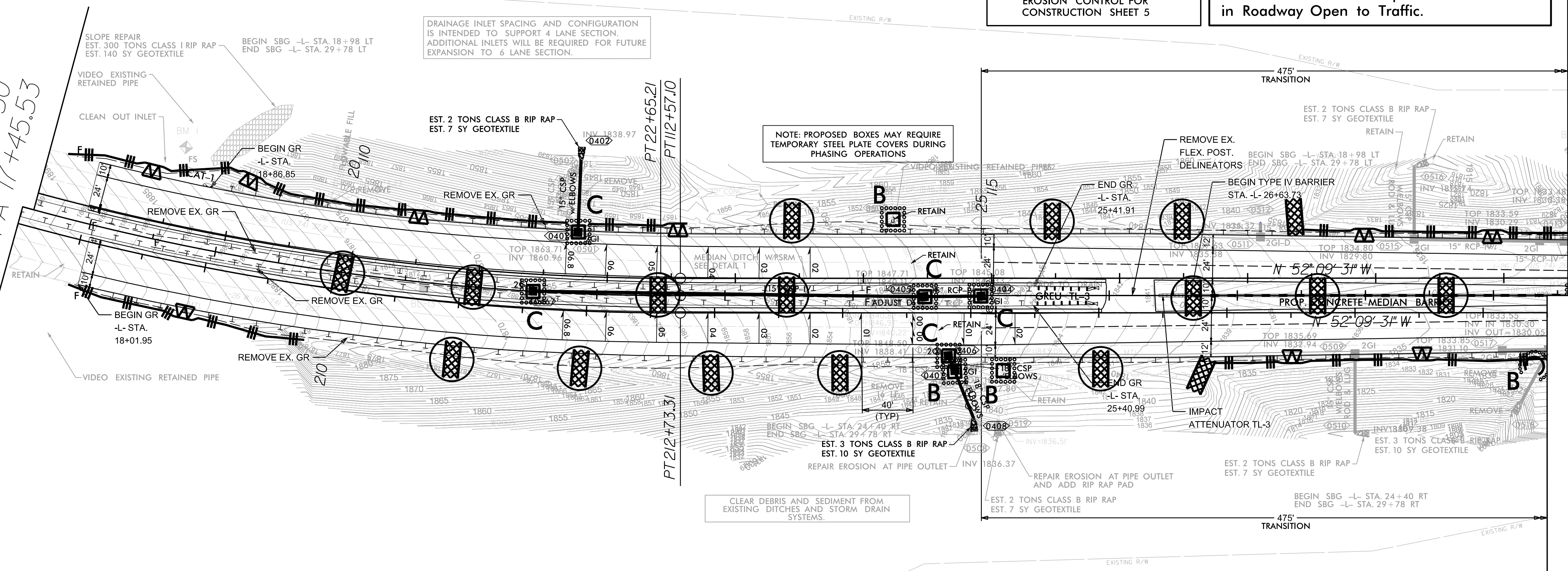
REQUEST VIDEO OF PIPES PROPOSED TO RETAIN AS NOTED, CHECK FOR STRUCTURAL INTEGRITY.

DRAINAGE INLET SPACING AND CONFIGURATION IS INTENDED TO SUPPORT 4 LANE SECTION. ADDITIONAL INLETS WILL BE REQUIRED FOR FUTURE EXPANSION TO 6 LANE SECTION.

NOTE: PROPOSED BOXES MAY REQUIRE TEMPORARY STEEL PLATE COVERS DURING PHASING OPERATIONS

MATCHLINE - SEE SHEET EC-04
EBL STA 107+50
WBL STA 207+50
-L- STA 17+45.53

MATCHLINE - SEE SHEET EC-06
EBL STA 119+50
WBL STA 219+50

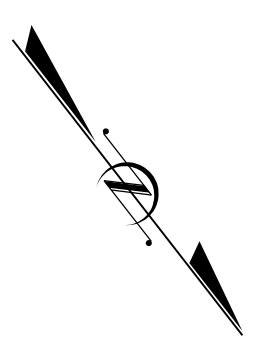


CLEAR DEBRIS AND SEDIMENT FROM EXISTING DITCHES AND STORM DRAIN SYSTEMS.

FOR EBL PROFILE SEE SHEET 7
FOR WBL PROFILE SEE SHEET 7

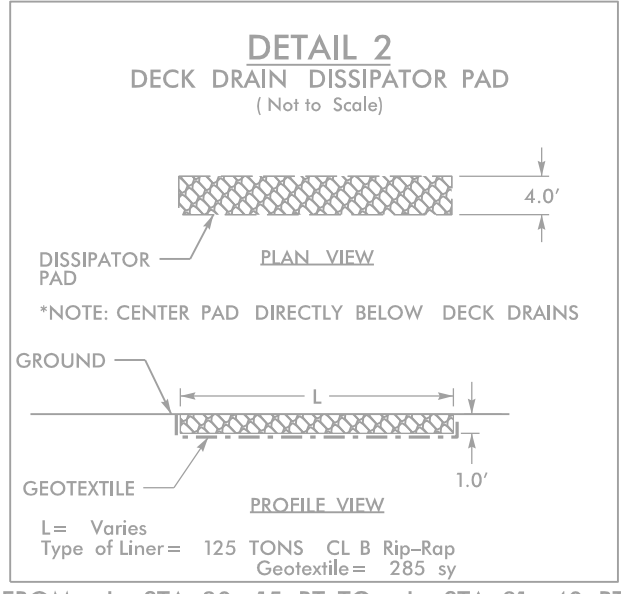
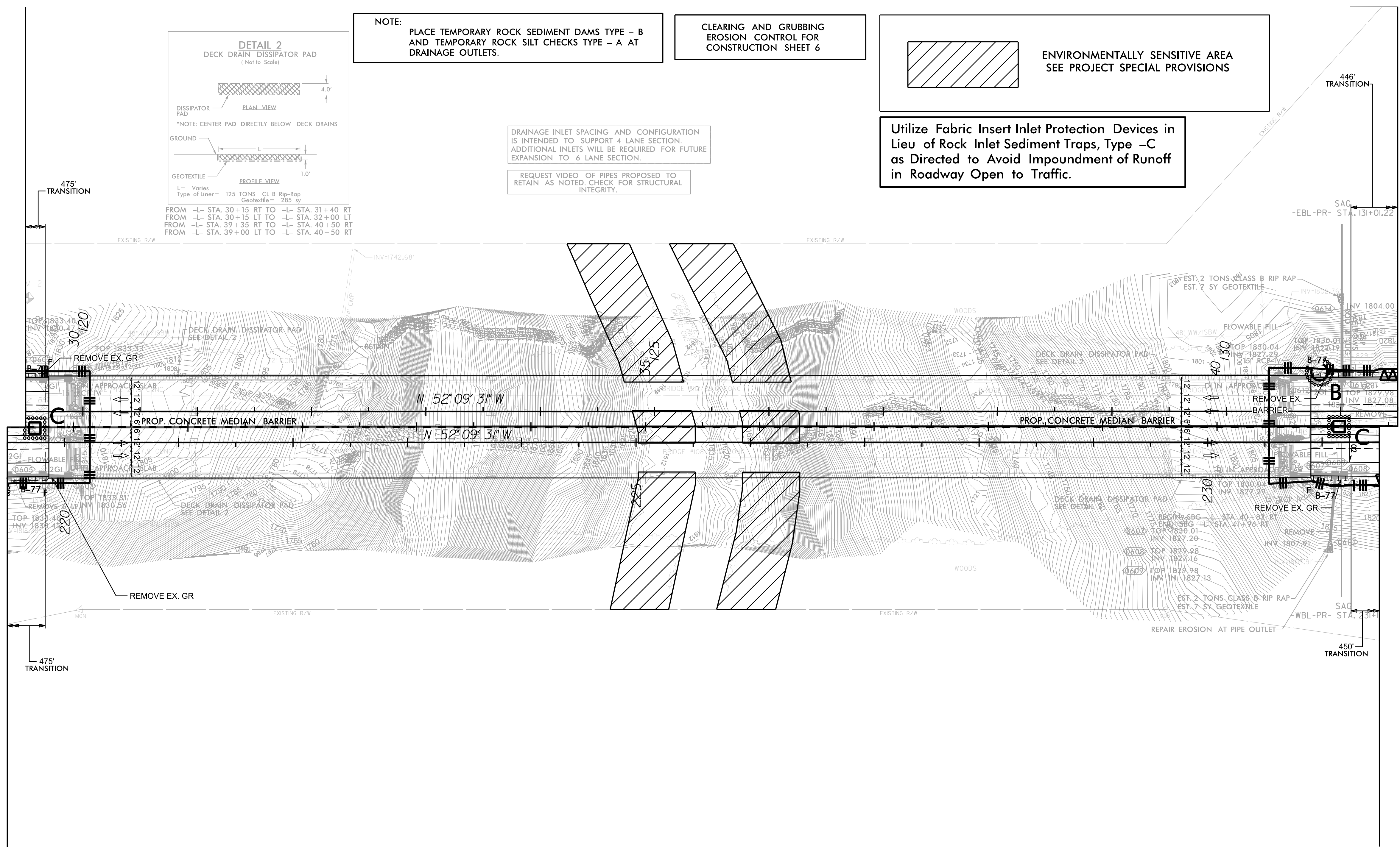
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
15BPR.20	EC-06/CONST.06
R/W SHEET NO.	
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MATCHLINE - SEE SHEET EC-05
 EBL STA 119+50
 WBL STA 219+50

MATCHLINE - SEE SHEET EC-07
 EBL STA 131+50
 WBL STA 231+50



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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

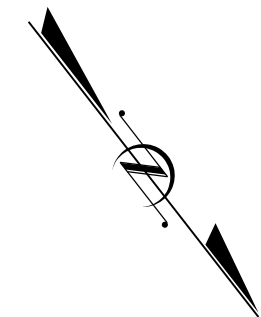
DRAINAGE INLET SPACING AND CONFIGURATION IS INTENDED TO SUPPORT 4 LANE SECTION. ADDITIONAL INLETS WILL BE REQUIRED FOR FUTURE EXPANSION TO 6 LANE SECTION.

Utilize Fabric Insert Inlet Protection Devices in Lieu of Rock Inlet Sediment Traps, Type -C as Directed to Avoid Impoundment of Runoff in Roadway Open to Traffic.

REQUEST VIDEO OF PIPES PROPOSED TO RETAIN AS NOTED. CHECK FOR STRUCTURAL INTEGRITY.

FROM -L- STA. 30+15 RT TO -L- STA. 31+40 RT
 FROM -L- STA. 30+15 LT TO -L- STA. 32+00 LT
 FROM -L- STA. 39+35 RT TO -L- STA. 40+50 RT
 FROM -L- STA. 39+00 LT TO -L- STA. 40+50 RT

FOR EBL PROFILE SEE SHEET 8
 FOR WBL PROFILE SEE SHEET 8



<u>Curve EBL2</u>	<u>Curve EBL3</u>	<u>Curve EBL4</u>
PI = 134+59.51	PI = 139+11.56	PI = 146+74.34
DELTA = 5° 24' 53.18" (LT)	DELTA = 26° 03' 57.20" (LT)	DELTA = 17° 40' 29.07" (LT)
D = 2' 15' 48"	D = 3' 59' 19"	D = 2' 00' 59"
T = 119.71'	T = 332.51'	T = 441.79'
L = 239.24'	L = 653.51'	L = 876.55'
R = 2,531.50'	R = 1,436.50'	R = 2,841.50'
PC = 133+39.80	PCC = 135+79.04	PCC = 142+32.56
PCC = 135+79.04	PCC = 142+32.56	PT = 151+09.11
V = 60 MPH	V = 60 MPH	V = 60 MPH

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

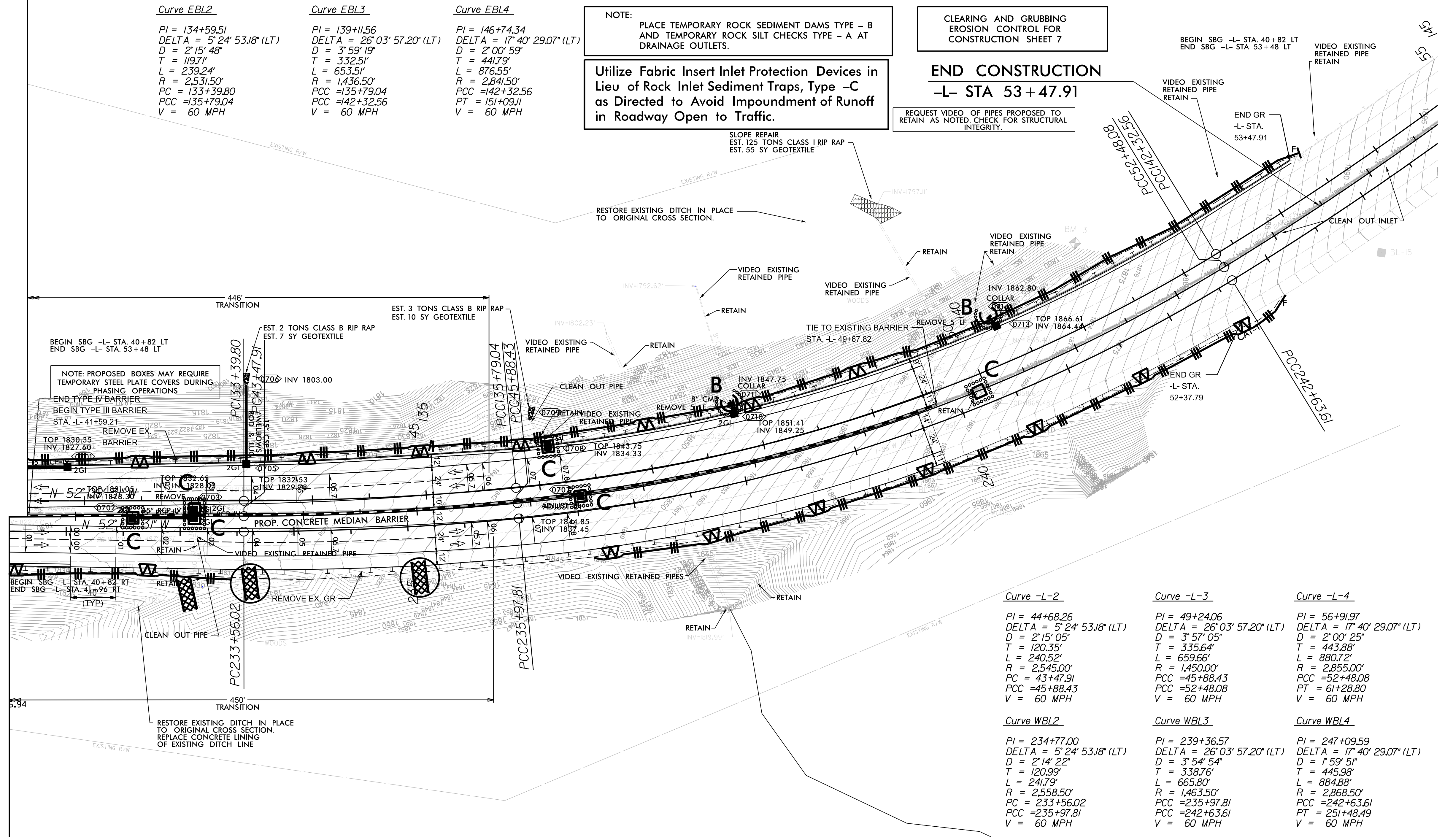
Utilize Fabric Insert Inlet Protection Devices in Lieu of Rock Inlet Sediment Traps, Type -C as Directed to Avoid Impoundment of Runoff in Roadway Open to Traffic.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

END CONSTRUCTION
 -L- STA 53+47.91

REQUEST VIDEO OF PIPES PROPOSED TO RETAIN AS NOTED CHECK FOR STRUCTURAL INTEGRITY.

MATCHLINE - SEE SHEET EC-056
 EBL STA 131+50
 WBL STA 231+50



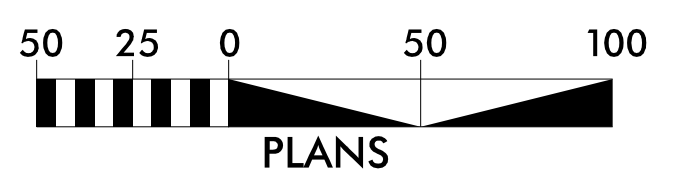
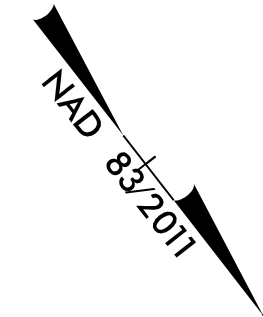
<u>Curve -L-2</u>	<u>Curve -L-3</u>	<u>Curve -L-4</u>
PI = 44+68.26	PI = 49+24.06	PI = 56+91.97
DELTA = 5° 24' 53.18" (LT)	DELTA = 26° 03' 57.20" (LT)	DELTA = 17° 40' 29.07" (LT)
D = 2' 15' 05"	D = 3' 57' 05"	D = 2' 00' 25"
T = 120.35'	T = 335.64'	T = 443.88'
L = 240.52'	L = 659.66'	L = 880.72'
R = 2,545.00'	R = 1,450.00'	R = 2,855.00'
PC = 43+47.91	PCC = 45+88.43	PCC = 52+48.08
PCC = 45+88.43	PCC = 52+48.08	PT = 61+28.80
V = 60 MPH	V = 60 MPH	V = 60 MPH

<u>Curve WBL2</u>	<u>Curve WBL3</u>	<u>Curve WBL4</u>
PI = 234+77.00	PI = 239+36.57	PI = 247+09.59
DELTA = 5° 24' 53.18" (LT)	DELTA = 26° 03' 57.20" (LT)	DELTA = 17° 40' 29.07" (LT)
D = 2' 14' 22"	D = 3' 54' 54"	D = 1' 59' 51"
T = 120.99'	T = 338.76'	T = 445.98'
L = 241.79'	L = 665.80'	L = 884.88'
R = 2,558.50'	R = 1,463.50'	R = 2,868.50'
PC = 233+56.02	PCC = 235+97.81	PCC = 242+63.61
PCC = 235+97.81	PCC = 242+63.61	PT = 251+48.49
V = 60 MPH	V = 60 MPH	V = 60 MPH

FOR EBL PROFILE SEE SHEET 9
 FOR WBL PROFILE SEE SHEET 9

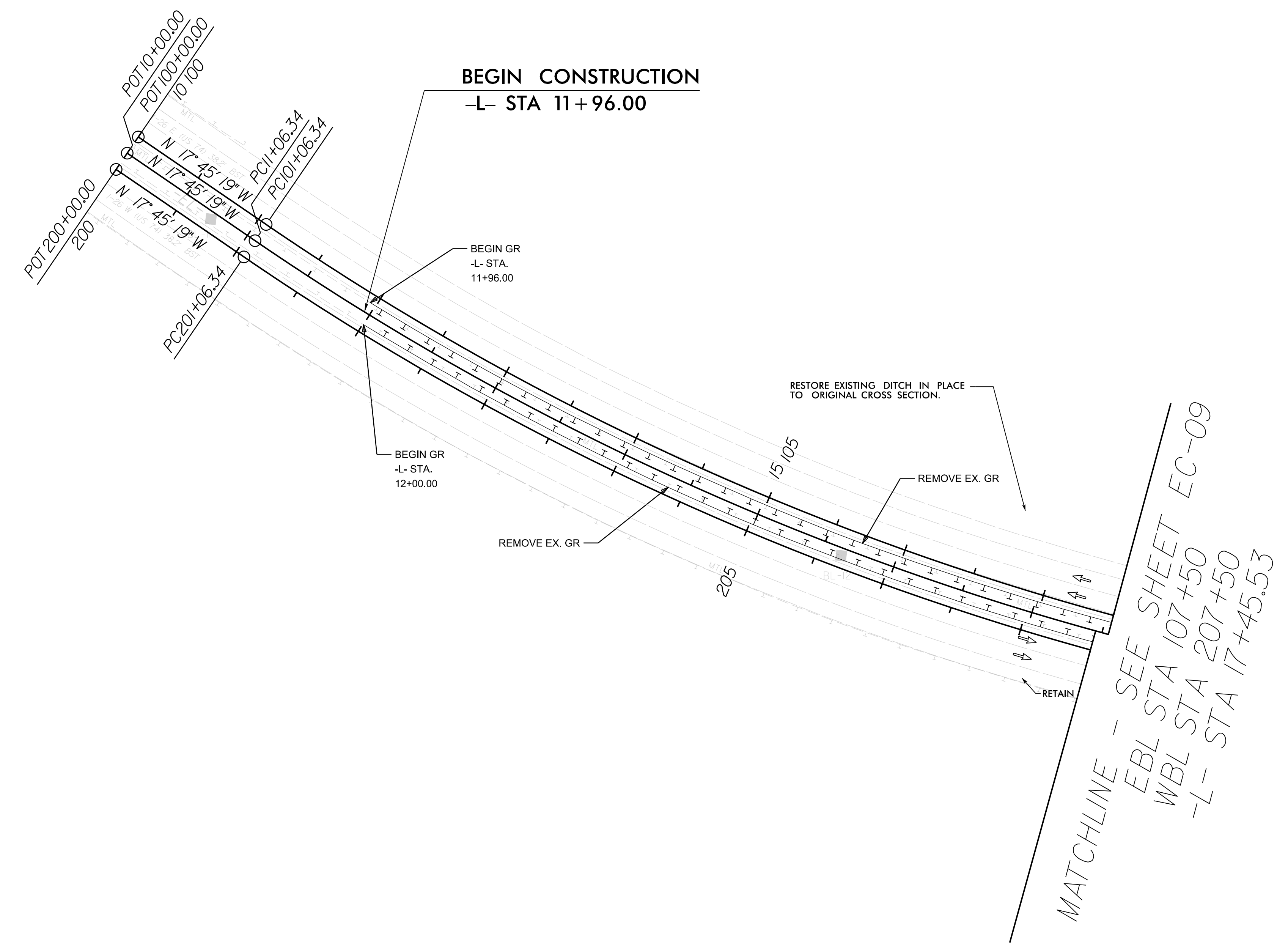
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PROJECT REFERENCE NO.	SHEET NO.
15BPR.20	EC-08/CONST.4
RW SHEET NO.	
Prepared in the Office of: AECOM	
NC FIRM LICENSE No. F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)	



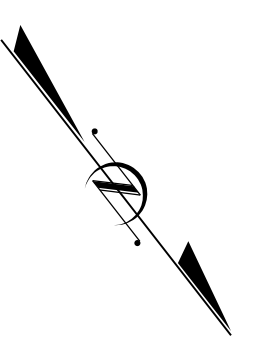
<u>Curve EBLI</u>	<u>Curve -L-L</u>	<u>Curve WBLI</u>
PI = 106+99.65	PI = 17+03.83	PI = 207+08.01
DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)
D = 2° 59' 23"	D = 2° 58' 07"	D = 2° 56' 53"
T = 593.32'	T = 597.50'	T = 601.68'
L = 1150.77'	L = 1158.87'	L = 1166.98'
R = 1916.50'	R = 1930.00'	R = 1943.50'
PC = 101+06.34	PC = 11+06.34	PC = 201+06.34
PT = 112+57.10	PT = 22+65.21	PT = 212+73.31
V = 60 MPH	V = 60 MPH	V = 60 MPH

BL-10

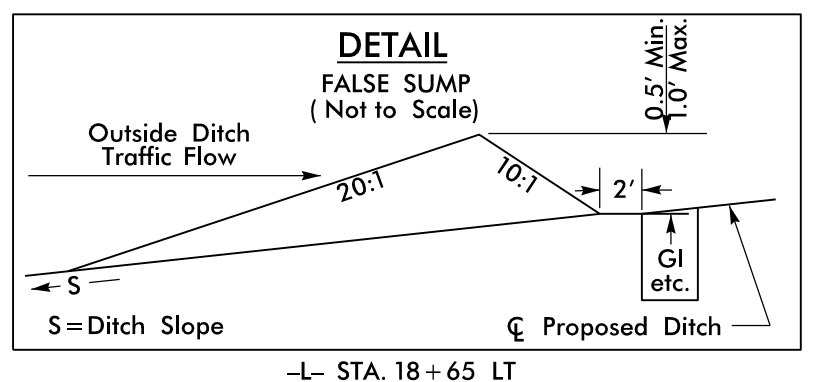
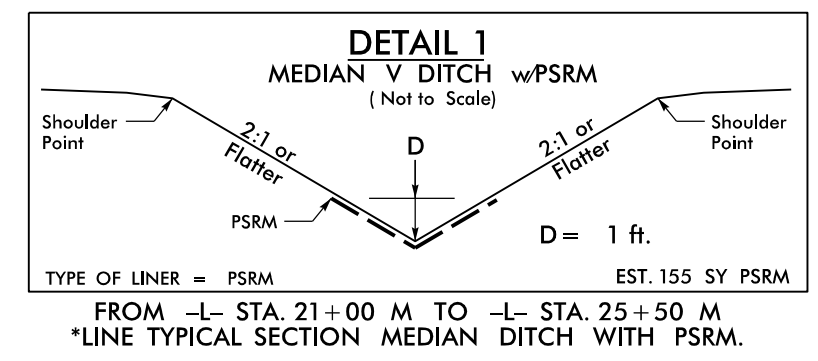


FOR EBL PROFILE SEE SHEET 8
FOR WBL PROFILE SEE SHEET 8

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Curve EBLI	Curve -L-I	Curve WBLI
PI = 106+99.65	PI = 17+03.83	PI = 207+08.01
DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)	DELTA = 34° 24' 12.03" (LT)
D = 2' 59' 23"	D = 2' 58' 07"	D = 2' 56' 53"
T = 593.32'	T = 597.50'	T = 601.68'
L = 1150.77'	L = 1158.87'	L = 1166.98'
R = 1916.50'	R = 1930.00'	R = 1943.50'
PC = 101+06.34	PC = 11+06.34	PC = 201+06.34
PT = 112+57.10	PT = 22+65.21	PT = 212+73.31
V = 60 MPH	V = 60 MPH	V = 60 MPH

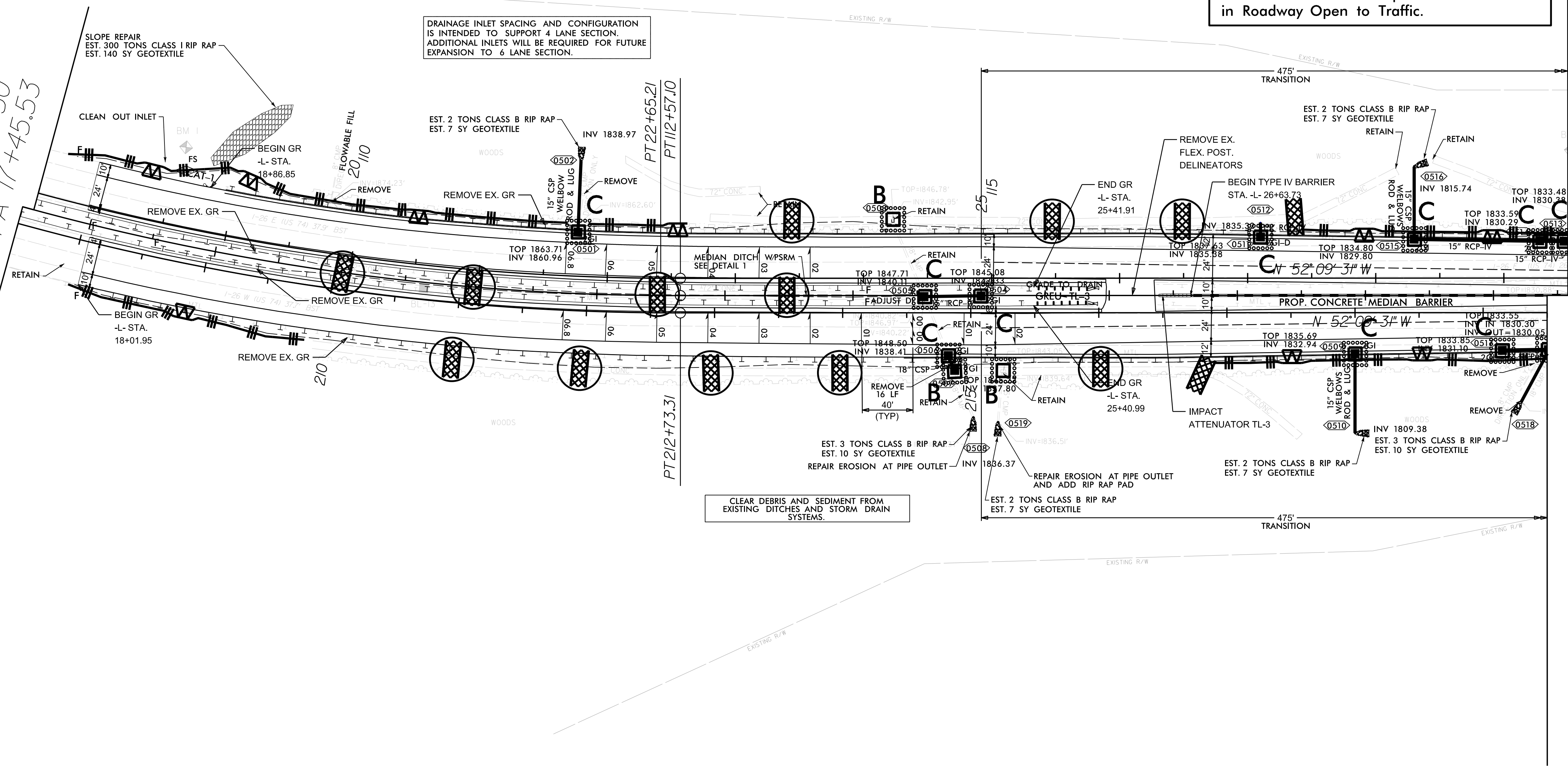


Utilize Fabric Insert Inlet Protection Devices in Lieu of Rock Inlet Sediment Traps, Type -C as Directed to Avoid Impoundment of Runoff in Roadway Open to Traffic.

DRAINAGE INLET SPACING AND CONFIGURATION IS INTENDED TO SUPPORT 4 LANE SECTION. ADDITIONAL INLETS WILL BE REQUIRED FOR FUTURE EXPANSION TO 6 LANE SECTION.

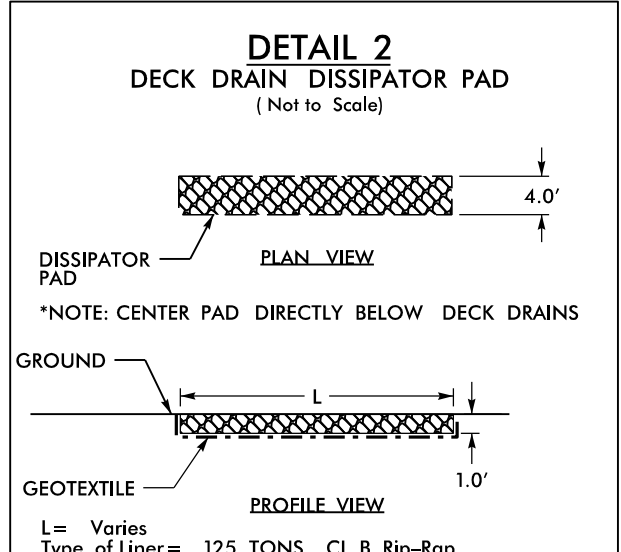
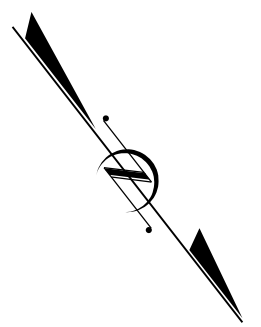
MATCHLINE - SEE SHEET EC-08
EBL STA 107+50
WBL STA 207+50
-L- STA 17+45.53

MATCHLINE - SEE SHEET EC-10
EBL STA 119+50
WBL STA 219+50



FOR EBL PROFILE SEE SHEET 7
FOR WBL PROFILE SEE SHEET 7

PROJECT REFERENCE NO.	SHEET NO.
15BPR.20	EC-10/CONST.06
R/W SHEET NO.	
Prepared in the Office of: AECOM	
<small>NC FIRM LICENSE No.F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)</small>	



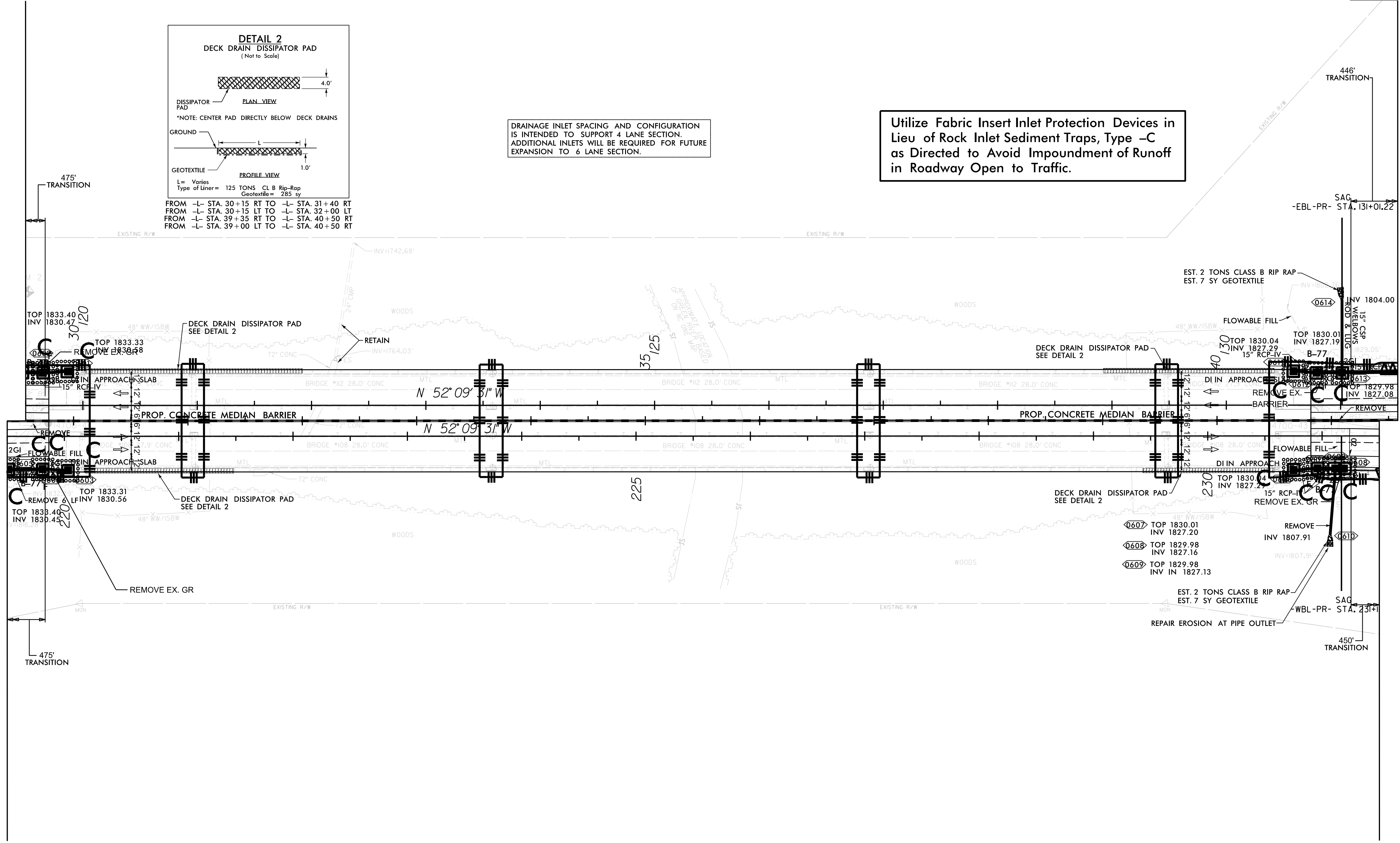
DRAINAGE INLET SPACING AND CONFIGURATION IS INTENDED TO SUPPORT 4 LANE SECTION. ADDITIONAL INLETS WILL BE REQUIRED FOR FUTURE EXPANSION TO 6 LANE SECTION.

Utilize Fabric Insert Inlet Protection Devices in Lieu of Rock Inlet Sediment Traps, Type -C as Directed to Avoid Impoundment of Runoff in Roadway Open to Traffic.

FROM -L- STA. 30+15 RT TO -L- STA. 31+40 RT
 FROM -L- STA. 30+15 LT TO -L- STA. 32+00 LT
 FROM -L- STA. 39+35 RT TO -L- STA. 40+50 RT
 FROM -L- STA. 39+00 LT TO -L- STA. 40+50 RT

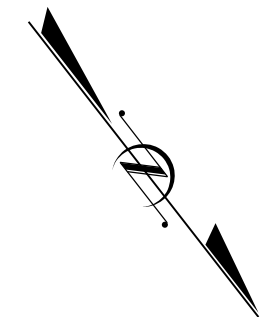
MATCHLINE - SEE SHEET EC-09
 EBL STA 119+50
 WBL STA 219+50

MATCHLINE - SEE SHEET EC-11
 EBL STA 131+50
 WBL STA 231+50



FOR EBL PROFILE SEE SHEET 8
 FOR WBL PROFILE SEE SHEET 8

5/14/99
 R:\Environment\Design\15bpr-20-reu-EC10.dgn

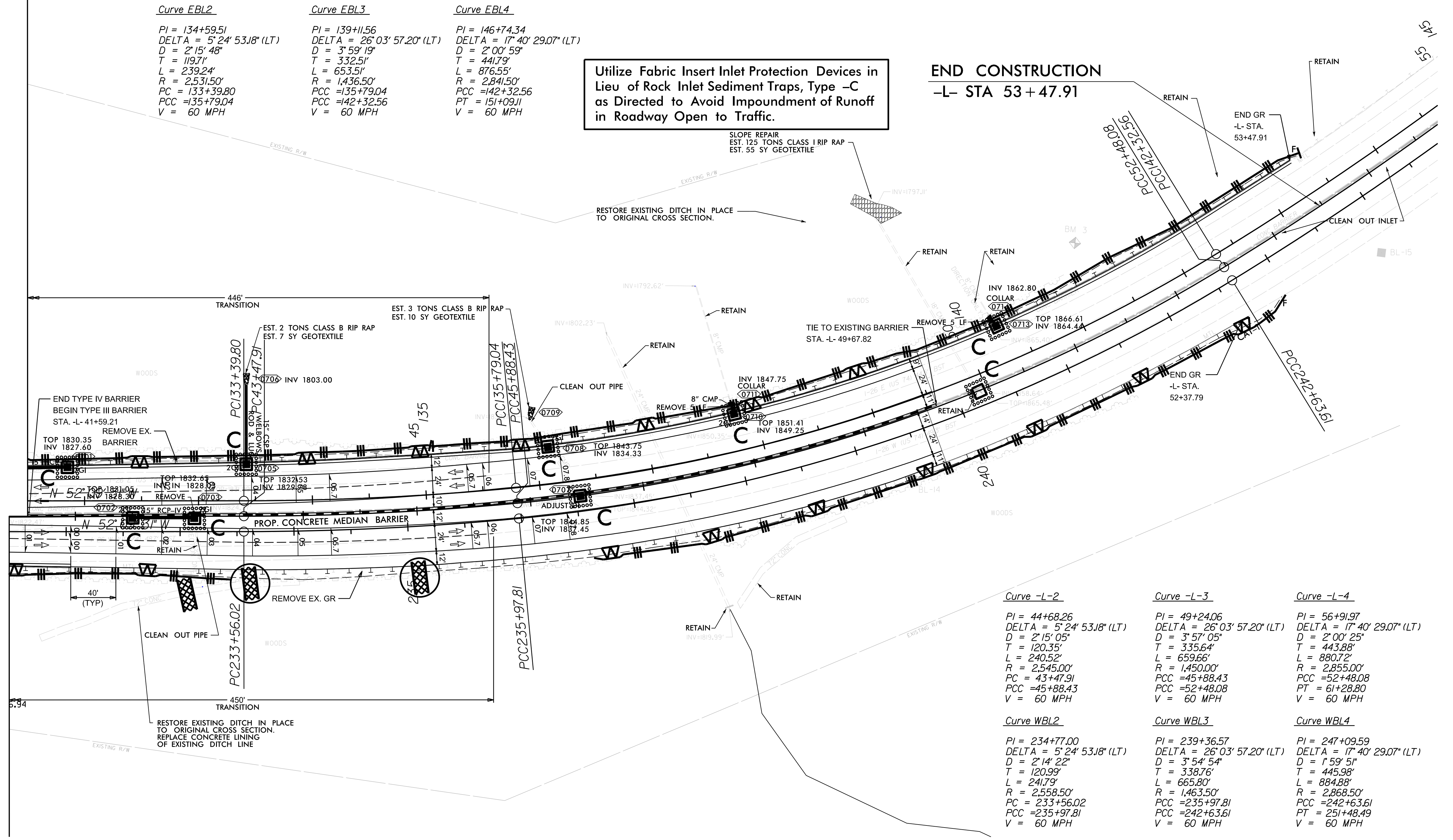


<u>Curve EBL2</u>	<u>Curve EBL3</u>	<u>Curve EBL4</u>
PI = 134+59.51	PI = 139+11.56	PI = 146+74.34
DELTA = 5° 24' 53.18" (LT)	DELTA = 26° 03' 57.20" (LT)	DELTA = 17° 40' 29.07" (LT)
D = 2' 15' 48"	D = 3' 59' 19"	D = 2' 00' 59"
T = 119.71'	T = 332.51'	T = 441.79'
L = 239.24'	L = 653.51'	L = 876.55'
R = 2,531.50'	R = 1,436.50'	R = 2,841.50'
PC = 133+39.80	PCC = 135+79.04	PCC = 142+32.56
PCC = 135+79.04	PCC = 142+32.56	PT = 151+09.11
V = 60 MPH	V = 60 MPH	V = 60 MPH

Utilize Fabric Insert Inlet Protection Devices in Lieu of Rock Inlet Sediment Traps, Type -C as Directed to Avoid Impoundment of Runoff in Roadway Open to Traffic.

END CONSTRUCTION
-L- STA 53+47.91

MATCHLINE - SEE SHEET EC-10
 EBL STA 131+50
 WBL STA 231+50



<u>Curve -L-2</u>	<u>Curve -L-3</u>	<u>Curve -L-4</u>
PI = 44+68.26	PI = 49+24.06	PI = 56+91.97
DELTA = 5° 24' 53.18" (LT)	DELTA = 26° 03' 57.20" (LT)	DELTA = 17° 40' 29.07" (LT)
D = 2' 15' 05"	D = 3' 57' 05"	D = 2' 00' 25"
T = 120.35'	T = 335.64'	T = 443.88'
L = 240.52'	L = 659.66'	L = 880.72'
R = 2,545.00'	R = 1,450.00'	R = 2,855.00'
PC = 43+47.91	PCC = 45+88.43	PCC = 52+48.08
PCC = 45+88.43	PCC = 52+48.08	PT = 61+28.80
V = 60 MPH	V = 60 MPH	V = 60 MPH
<u>Curve WBL2</u>	<u>Curve WBL3</u>	<u>Curve WBL4</u>
PI = 234+77.00	PI = 239+36.57	PI = 247+09.59
DELTA = 5° 24' 53.18" (LT)	DELTA = 26° 03' 57.20" (LT)	DELTA = 17° 40' 29.07" (LT)
D = 2' 14' 22"	D = 3' 54' 54"	D = 1' 59' 51"
T = 120.99'	T = 338.76'	T = 445.98'
L = 241.79'	L = 665.80'	L = 884.88'
R = 2,558.50'	R = 1,463.50'	R = 2,868.50'
PC = 233+56.02	PCC = 235+97.81	PCC = 242+63.61
PCC = 235+97.81	PCC = 242+63.61	PT = 251+48.49
V = 60 MPH	V = 60 MPH	V = 60 MPH

FOR EBL PROFILE SEE SHEET 9
FOR WBL PROFILE SEE SHEET 9