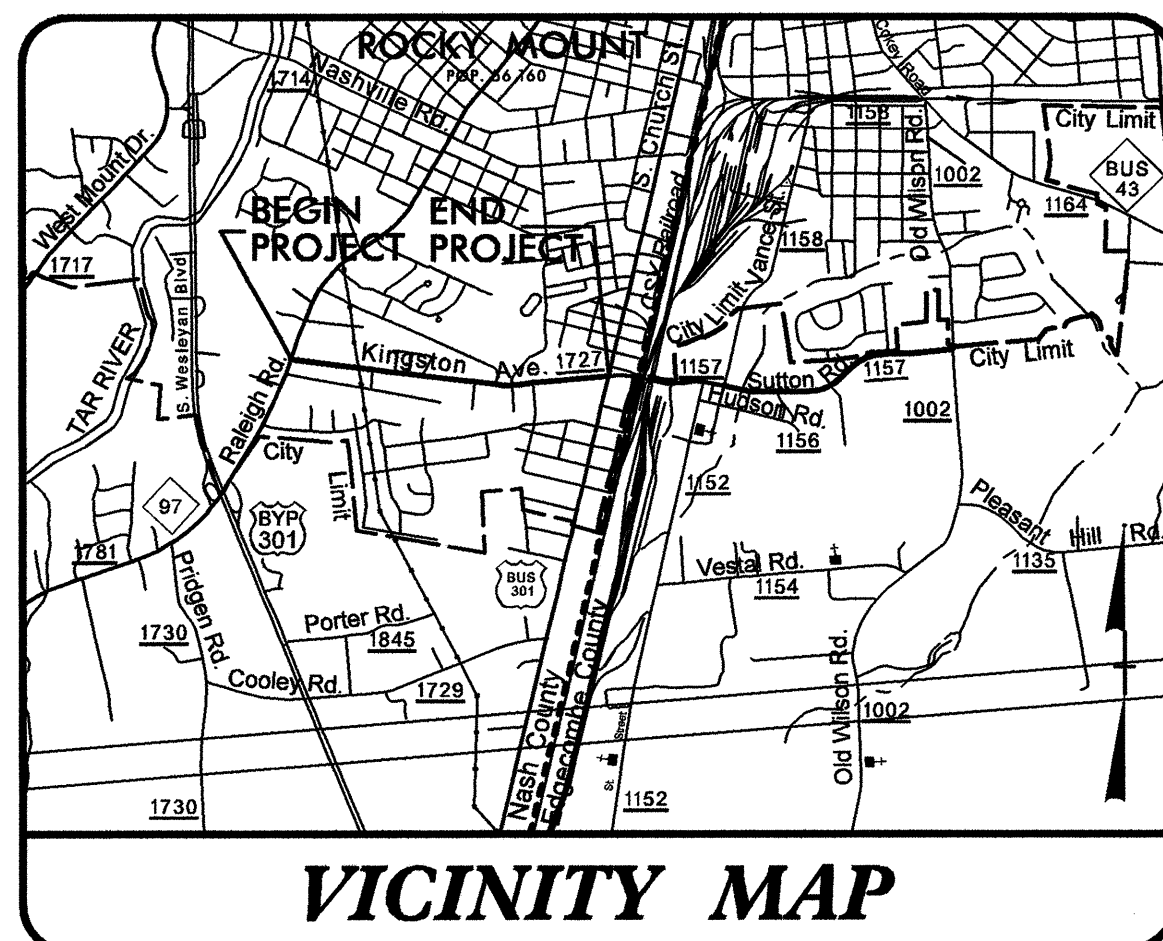


PROJECT #: 40129

See Sheet 1-A For Index of Sheets

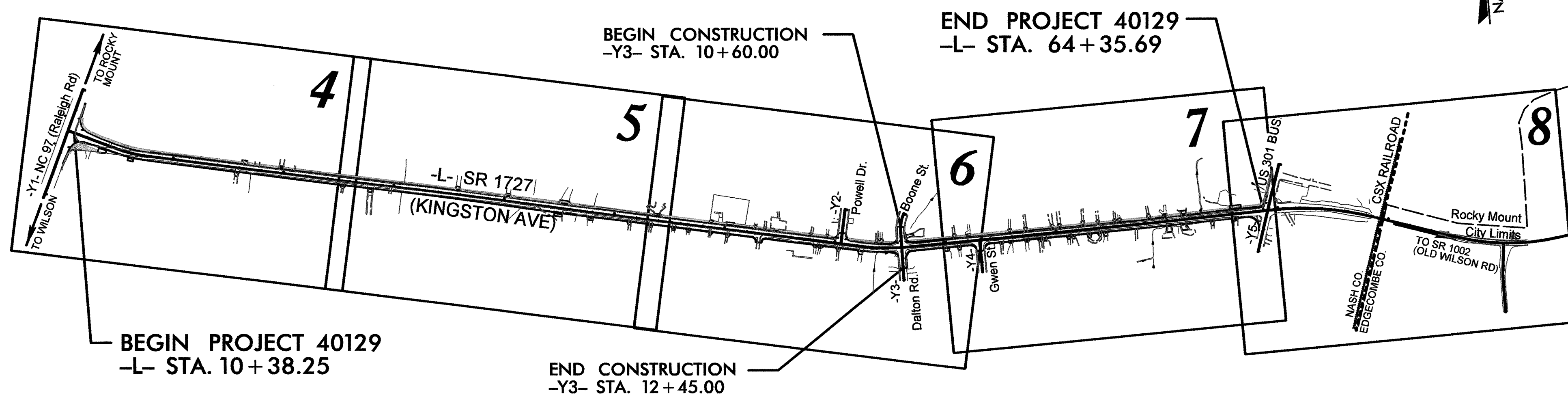


STATE OF NORTH CAROLINA NASH COUNTY DIVISION OF HIGHWAYS

PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

**LOCATION: SR 1727 (KINGSTON AVE) IN NASH COUNTY FROM NC 97
TO US 301 BUS.**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, & UTILITIES



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	40129	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
40129		PE, RW, CONST.	

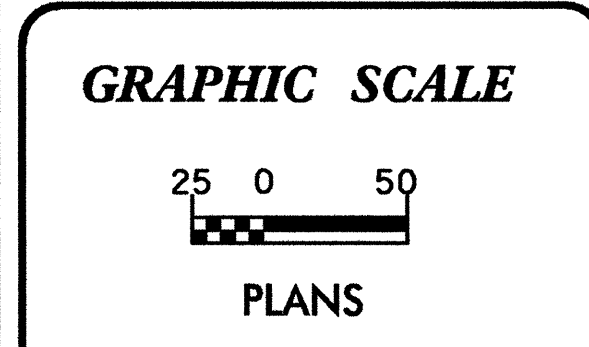
EROSION AND SEDIMENT CONTROL MEASURES

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

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



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Plans Prepared By:
TGS ENGINEERS
804-C N LAFAYETTE ST
SHELBY, NC 28150
PH (919) 704-0003

2012 STANDARD SPECIFICATIONS

Plans Prepared For:
NCDOT DIVISION 4
NCDOT Contact:
JERRY PAGE, PE
DIVISION PROJECT MANAGER

JIMMY L. TERRY JR.
PROJECT ENGINEER
LEVEL III CERTIFICATION NUMBER 3145

LETTING DATE:

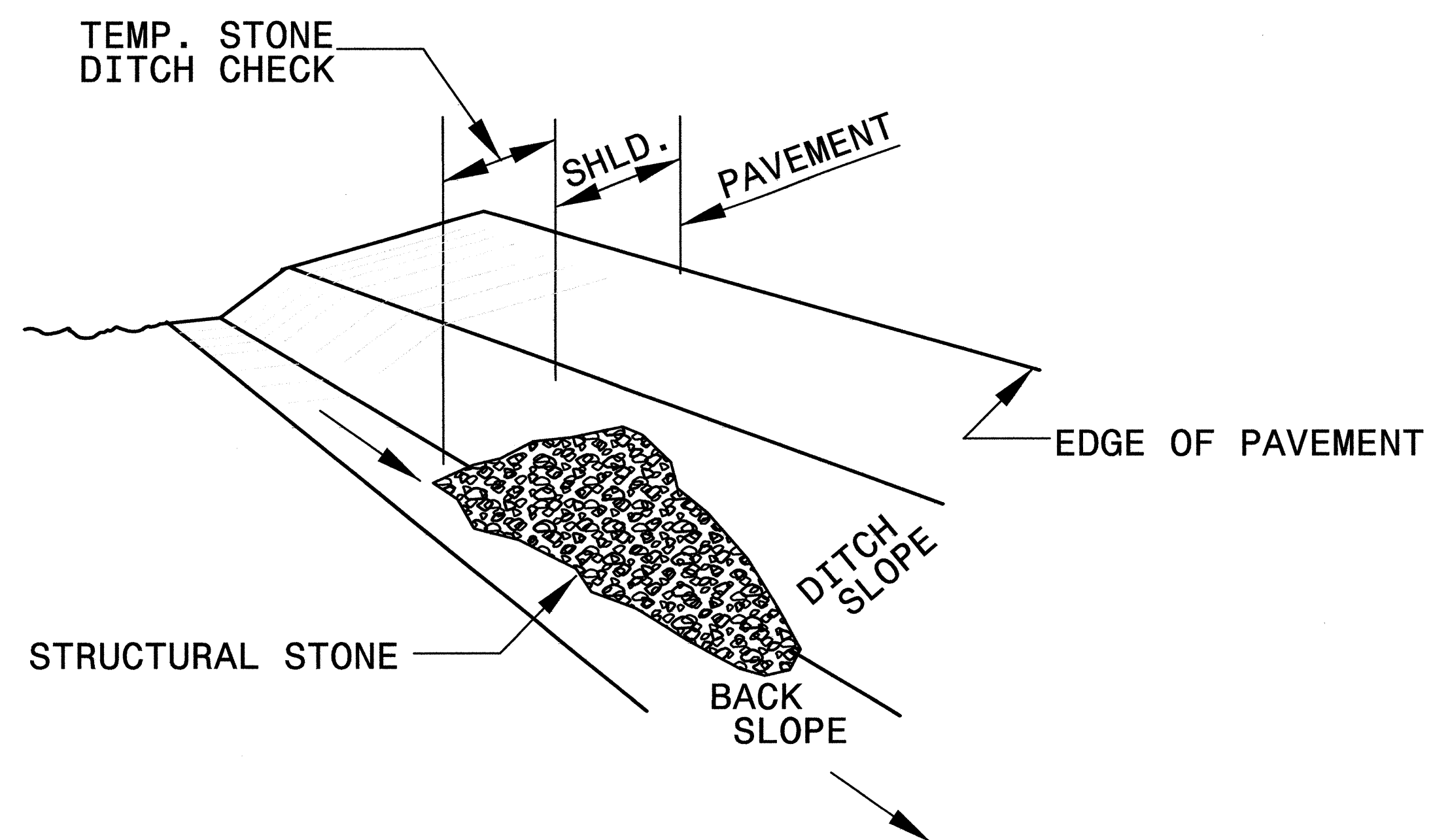
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"-- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 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	

PROJECT REFERENCE NO. 40129	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

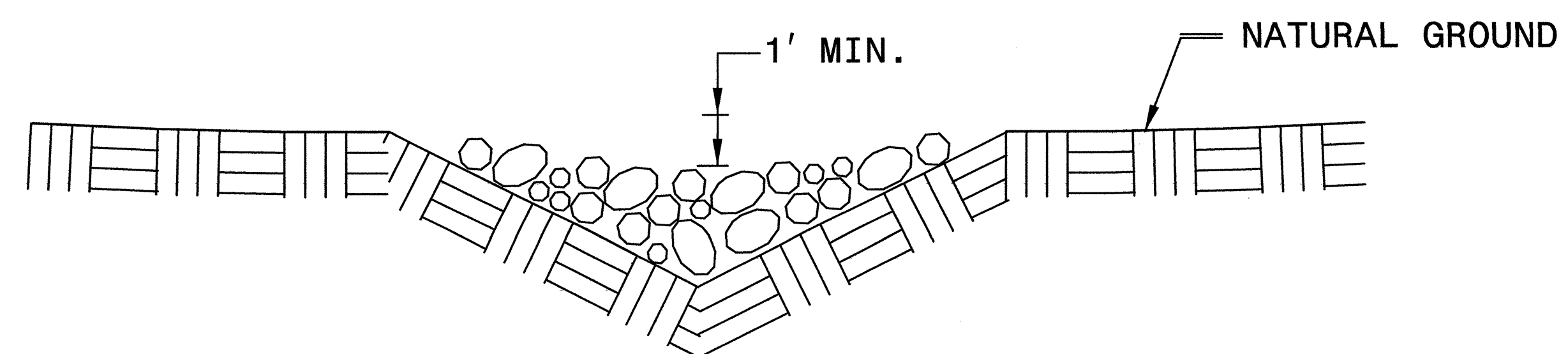


ISOMETRIC VIEW

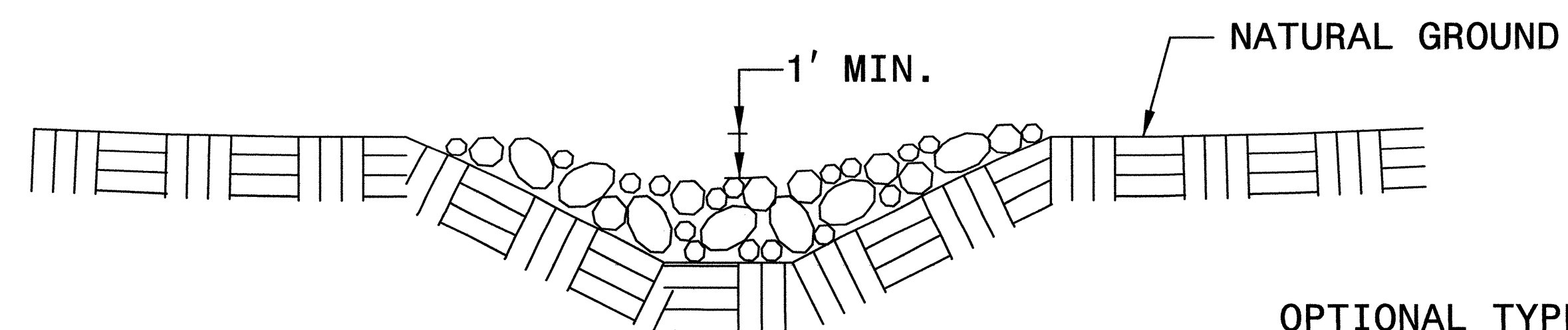
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

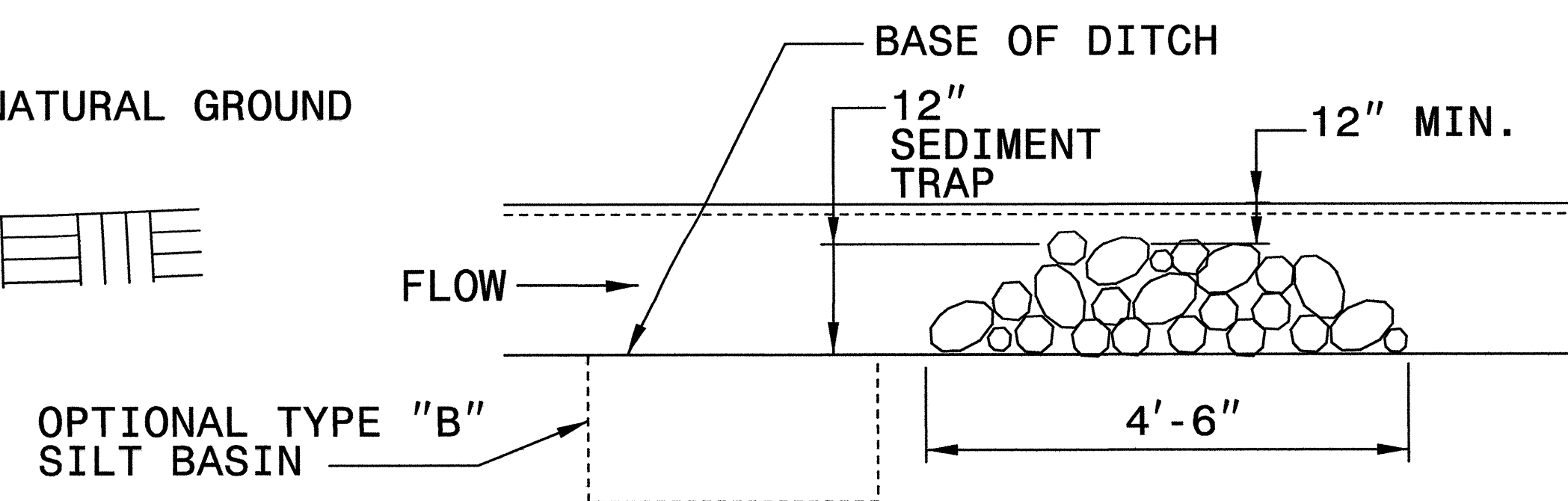
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



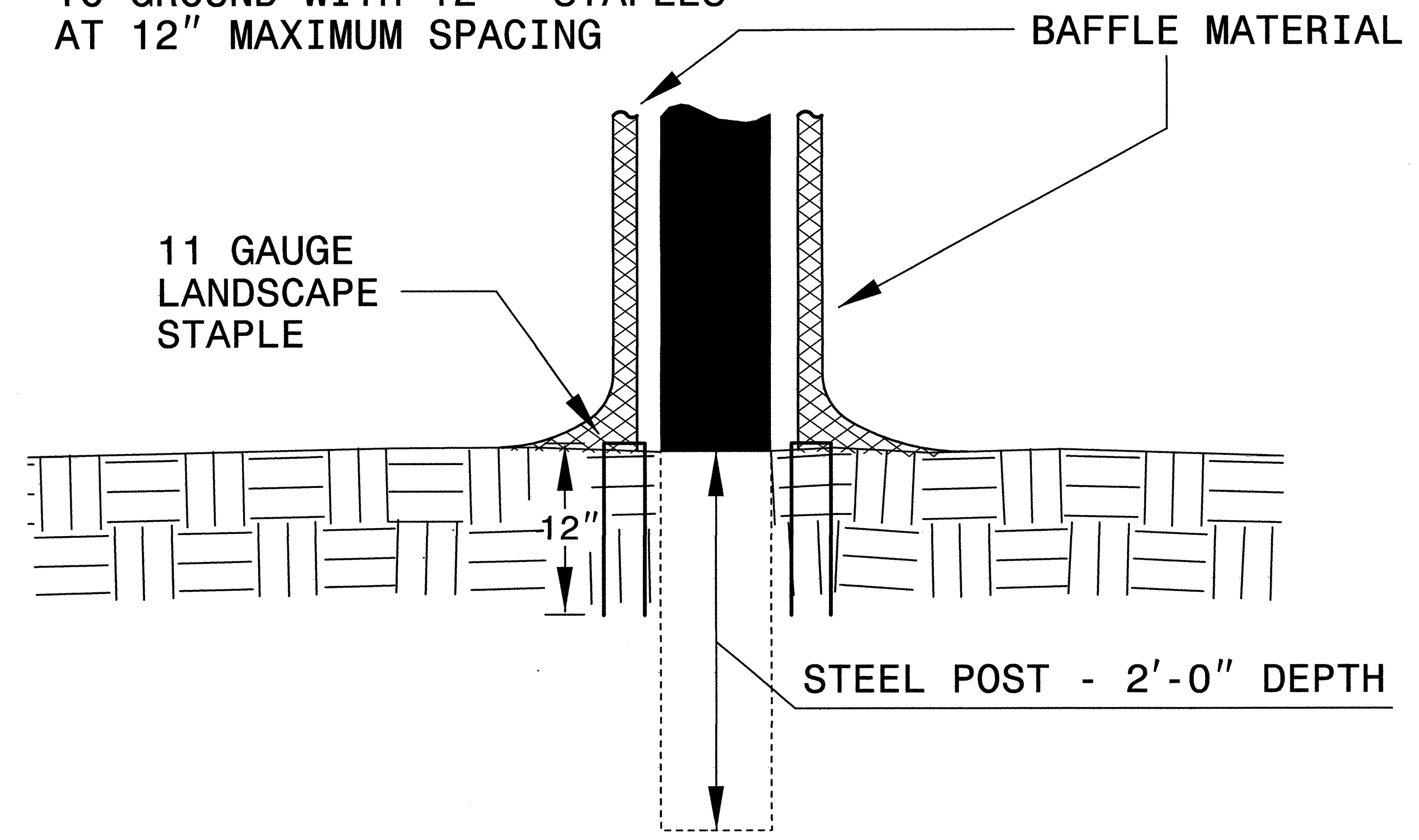
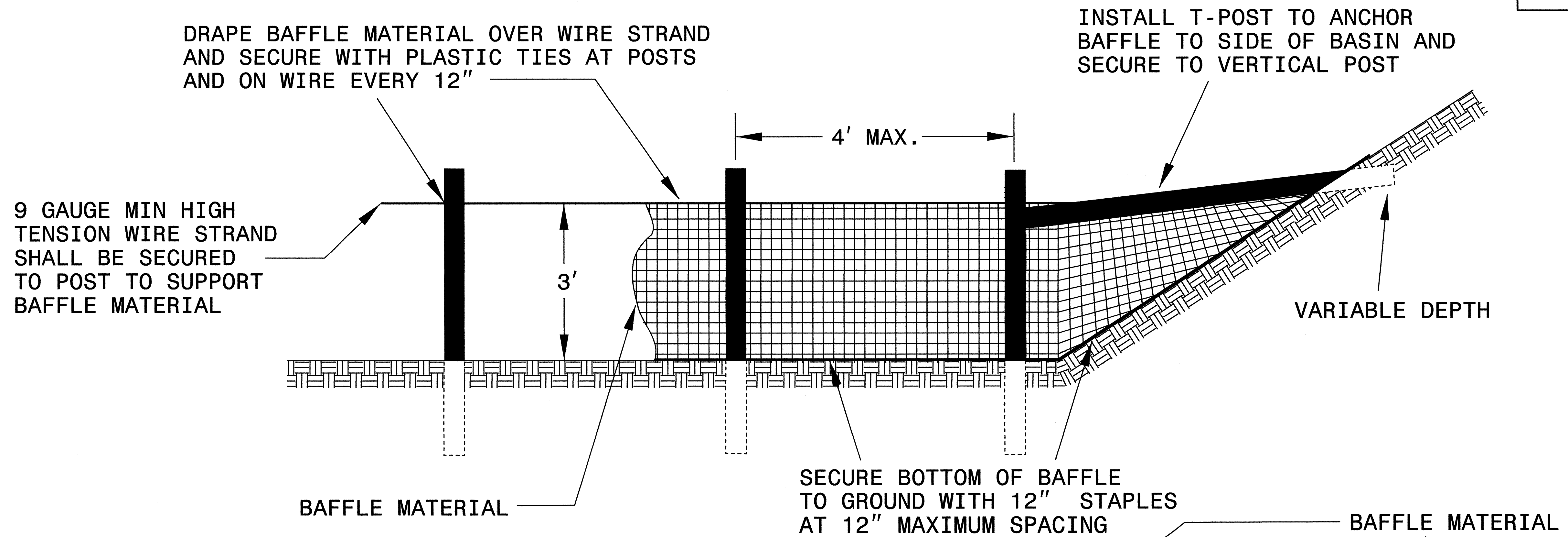
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. 40129	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



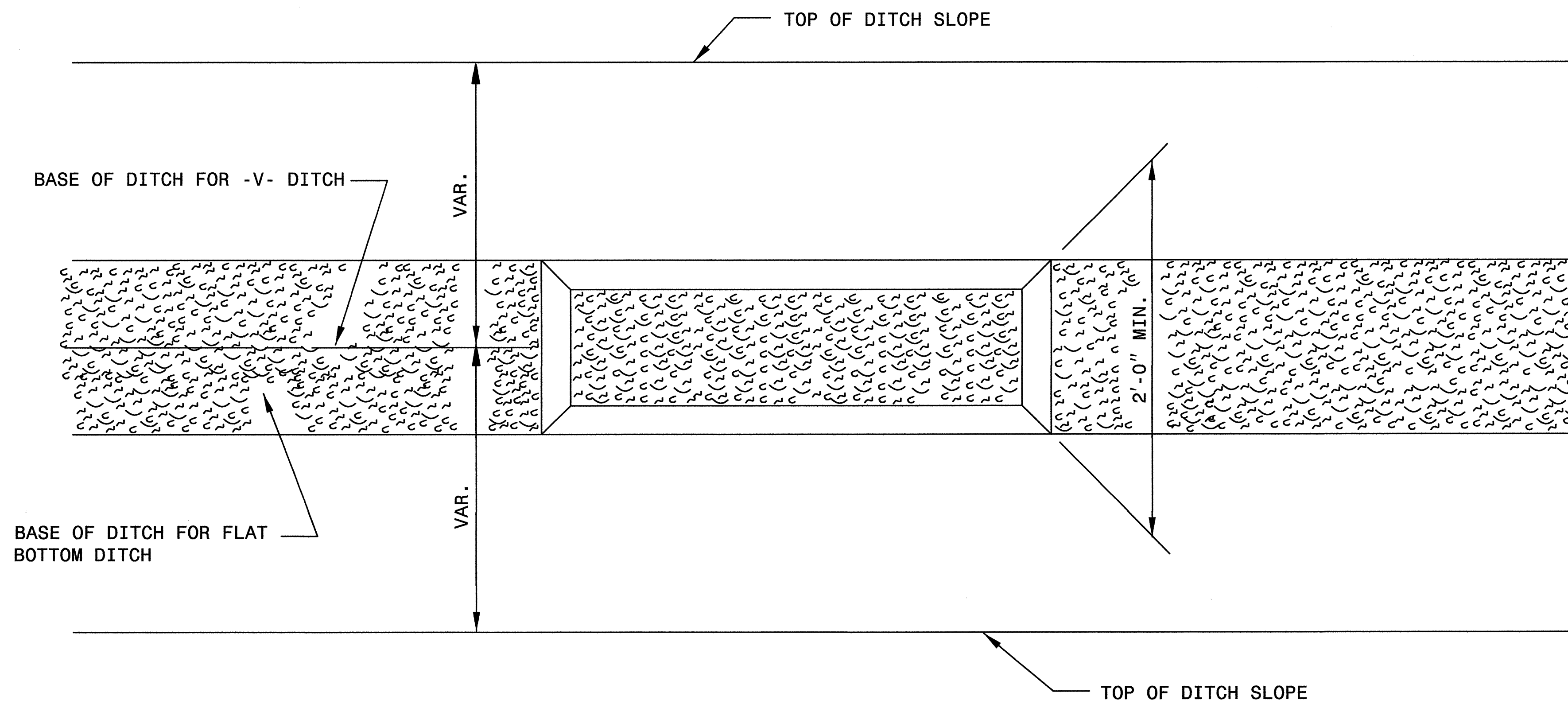
NOTES:

1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH.
2. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.
3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

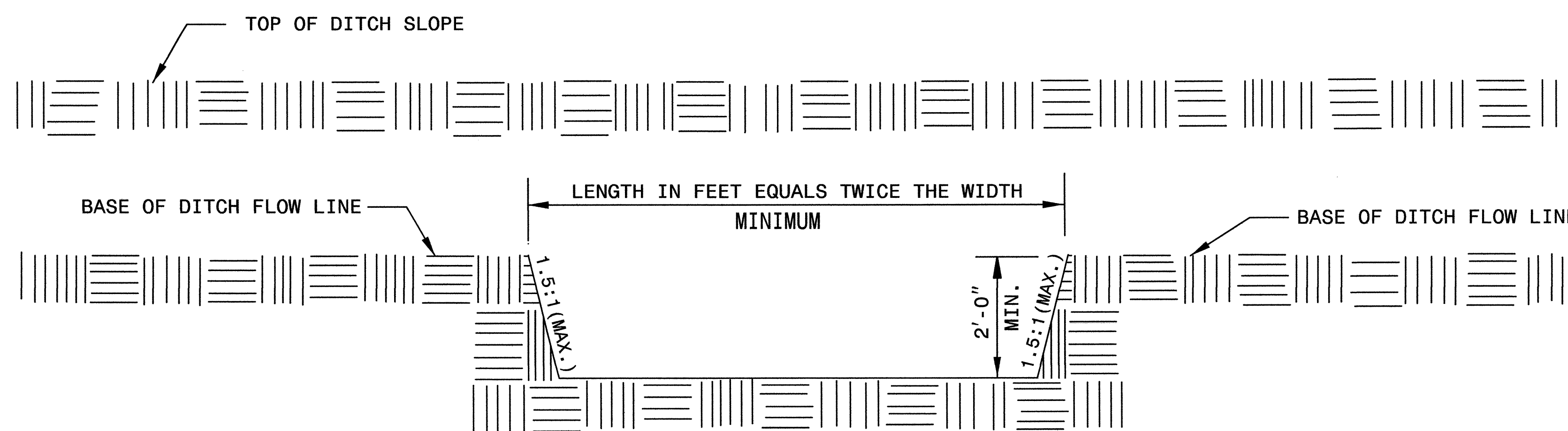
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

SILT BASIN 'B' DETAIL

PROJECT REFERENCE NO. 40129	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



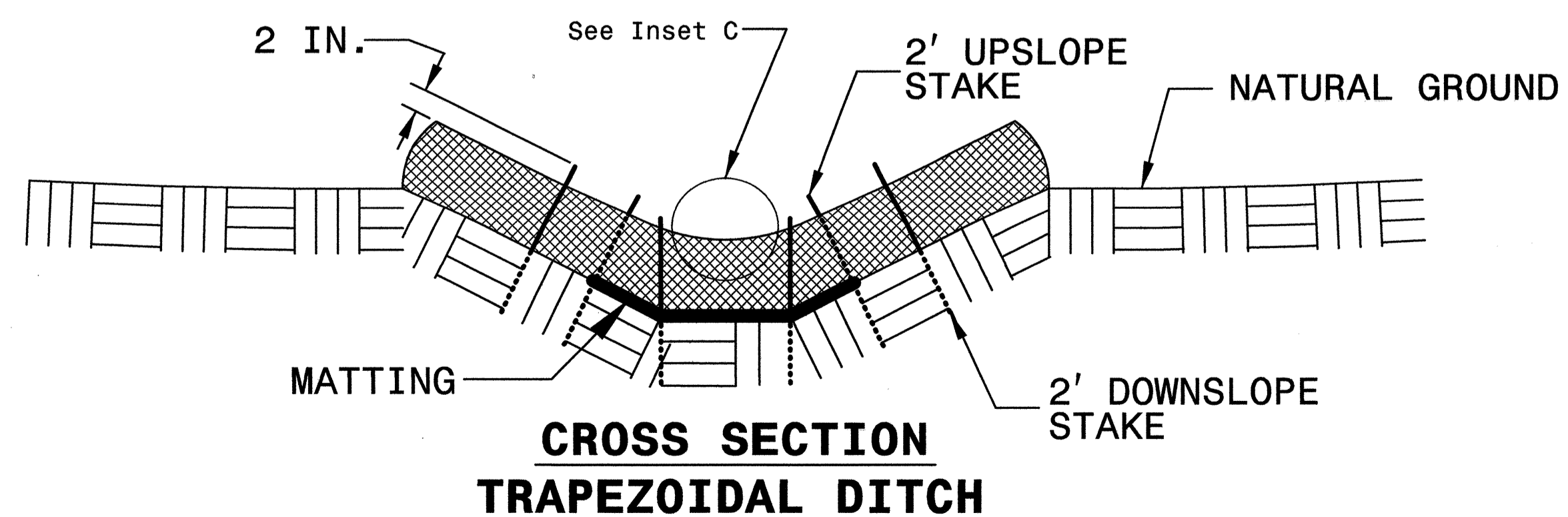
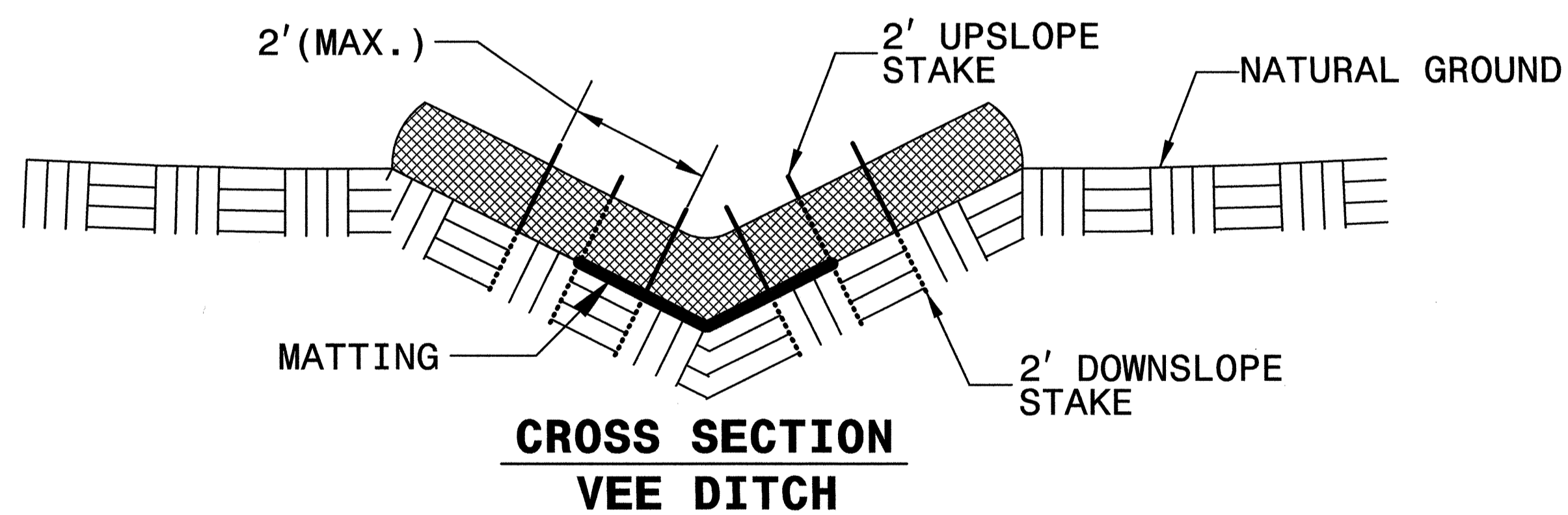
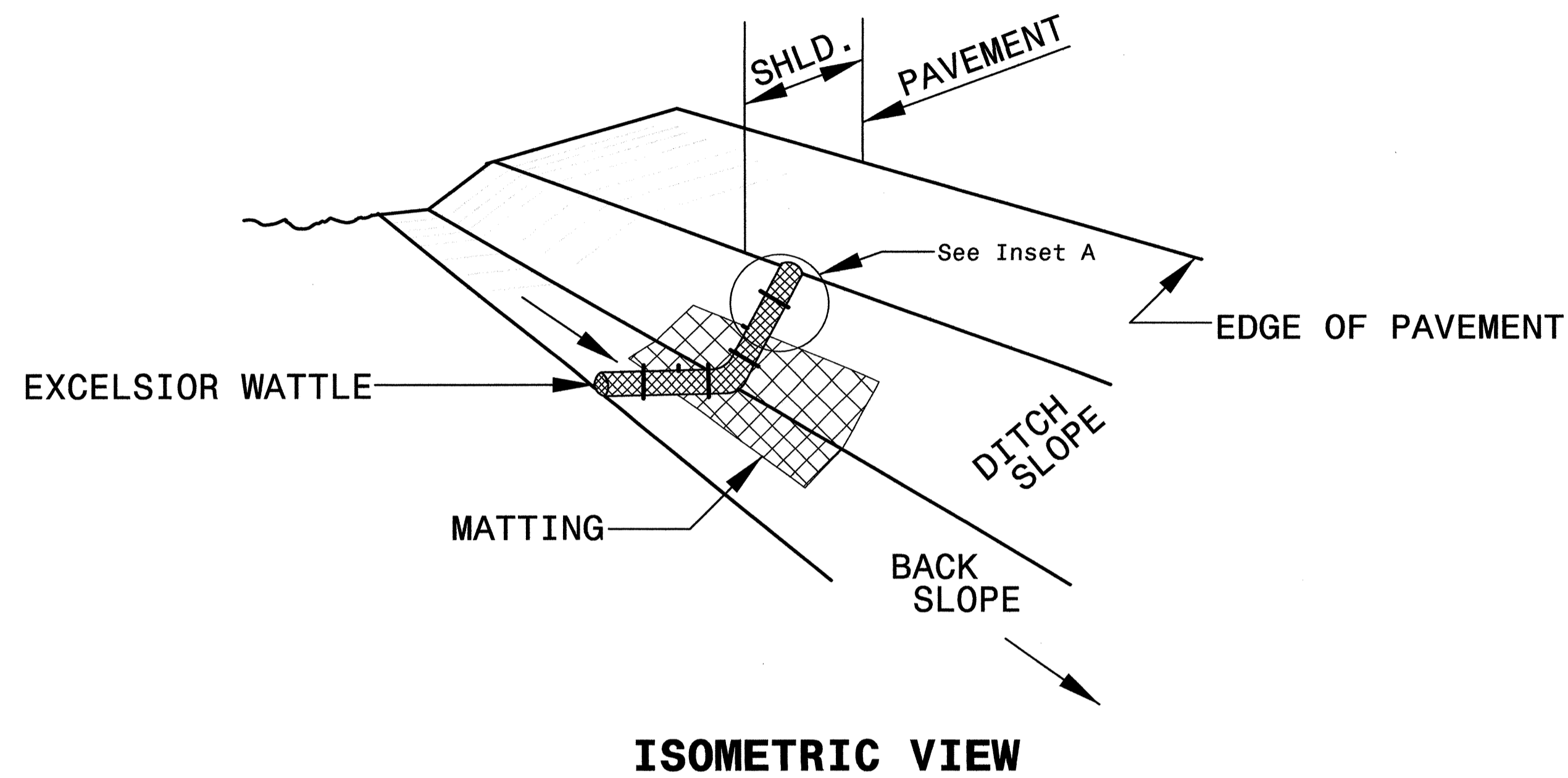
PLAN



ELEVATION

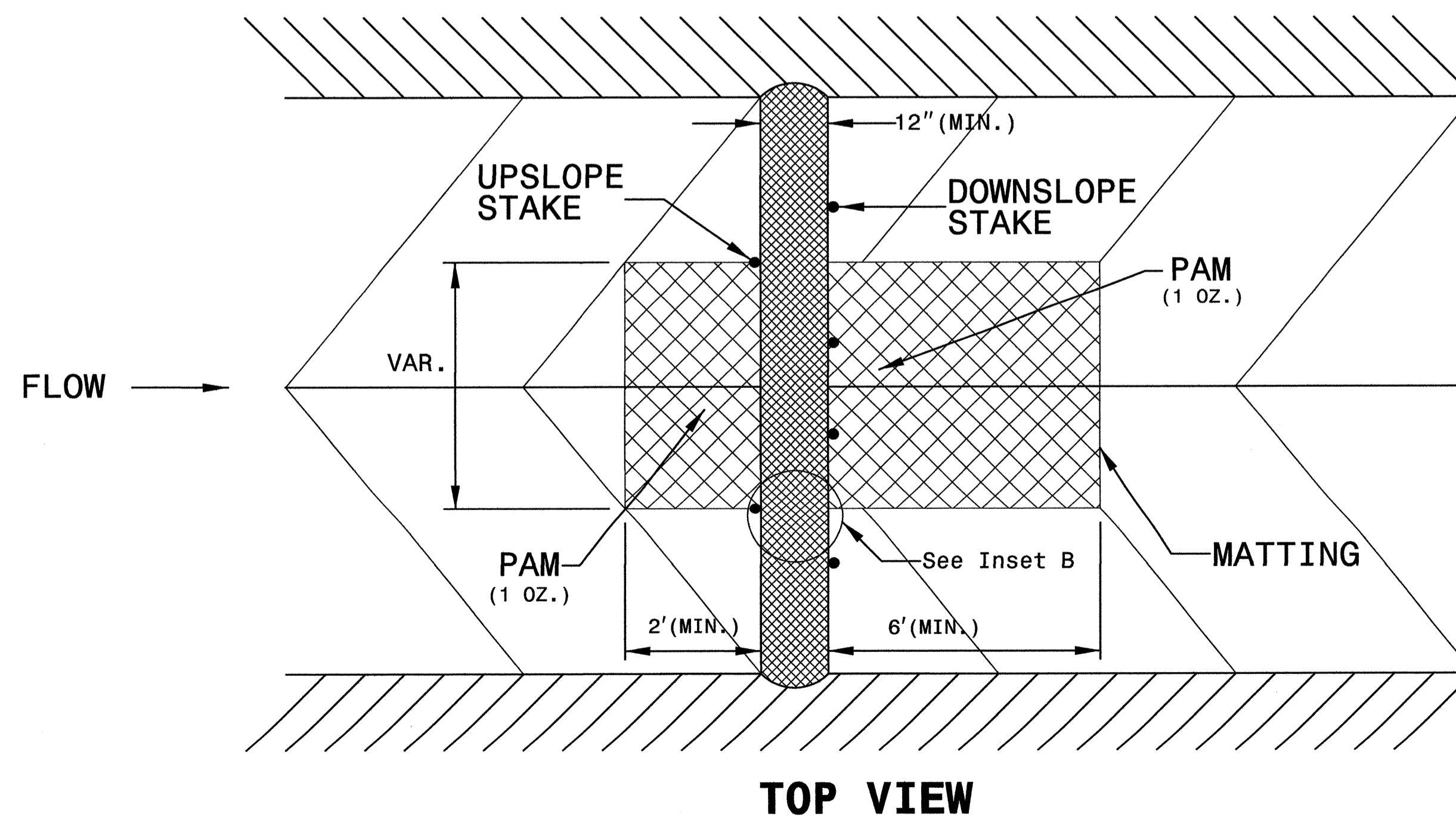
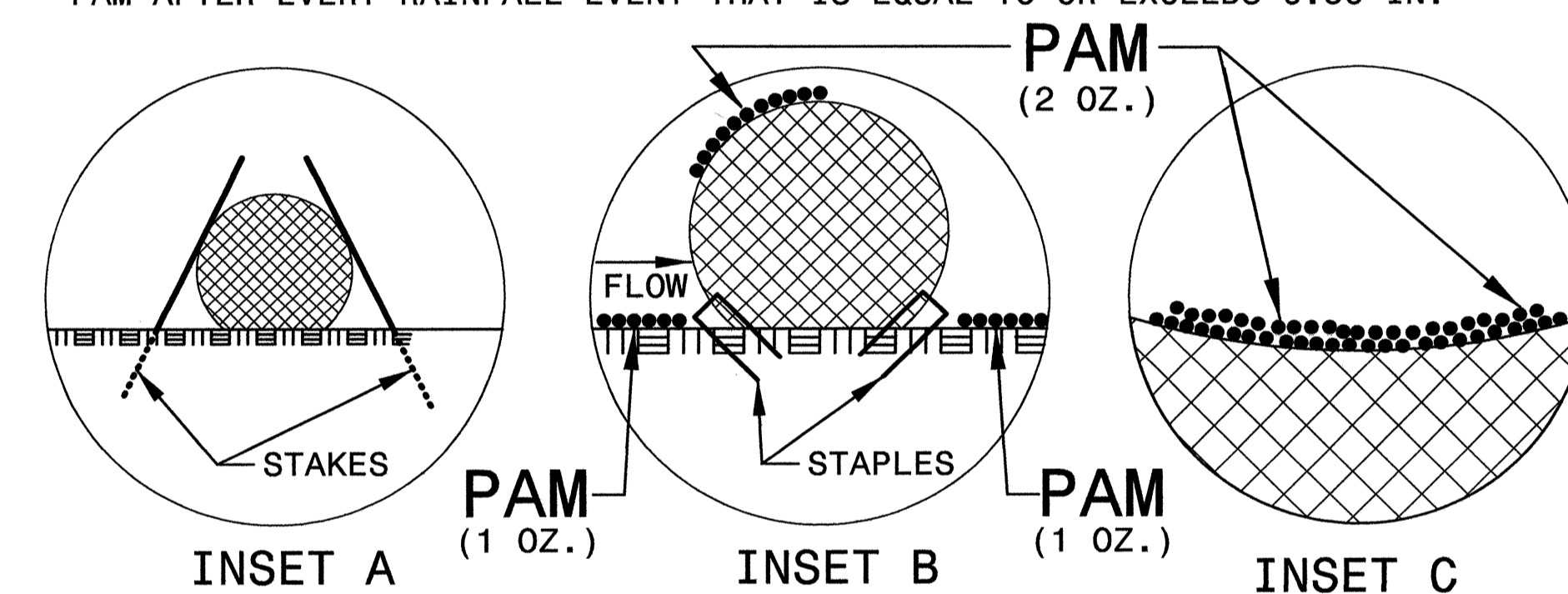
PROJECT REFERENCE NO. 40129	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>40129</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

8/17/99

PEDestRIAN SAFE GRATES TO BE USED FOR

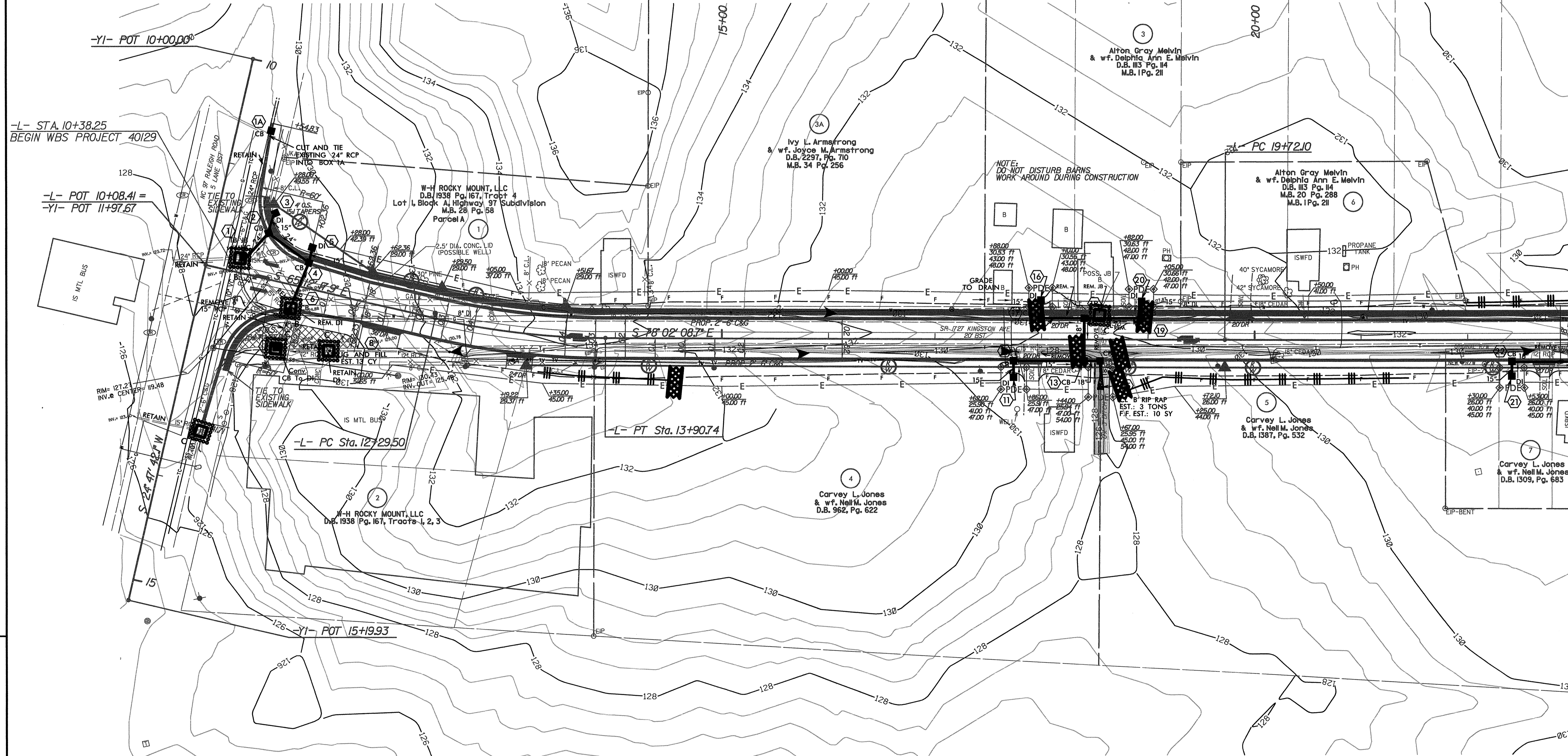
-L-

PI Sta 13+10.46	PI Sta 22+20.20
$\Delta = 12' 49" 50.8" (LT)$	$\Delta = 0' 32" 25.7" (LT)$
$D = 7' 57" 27.9"$	$D = 0' 06" 32.1"$
$L = 161.24'$	$L = 496.18'$
$T = 80.96'$	$T = 248.09'$
$R = 720.00'$	$R = 52,600.00'$
$SE = 0.04$	$SE = NC$



PROJECT WBS ELEMENT 40129	SHEET NO. EC-4/CONST. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275	
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4	

REVISIONS




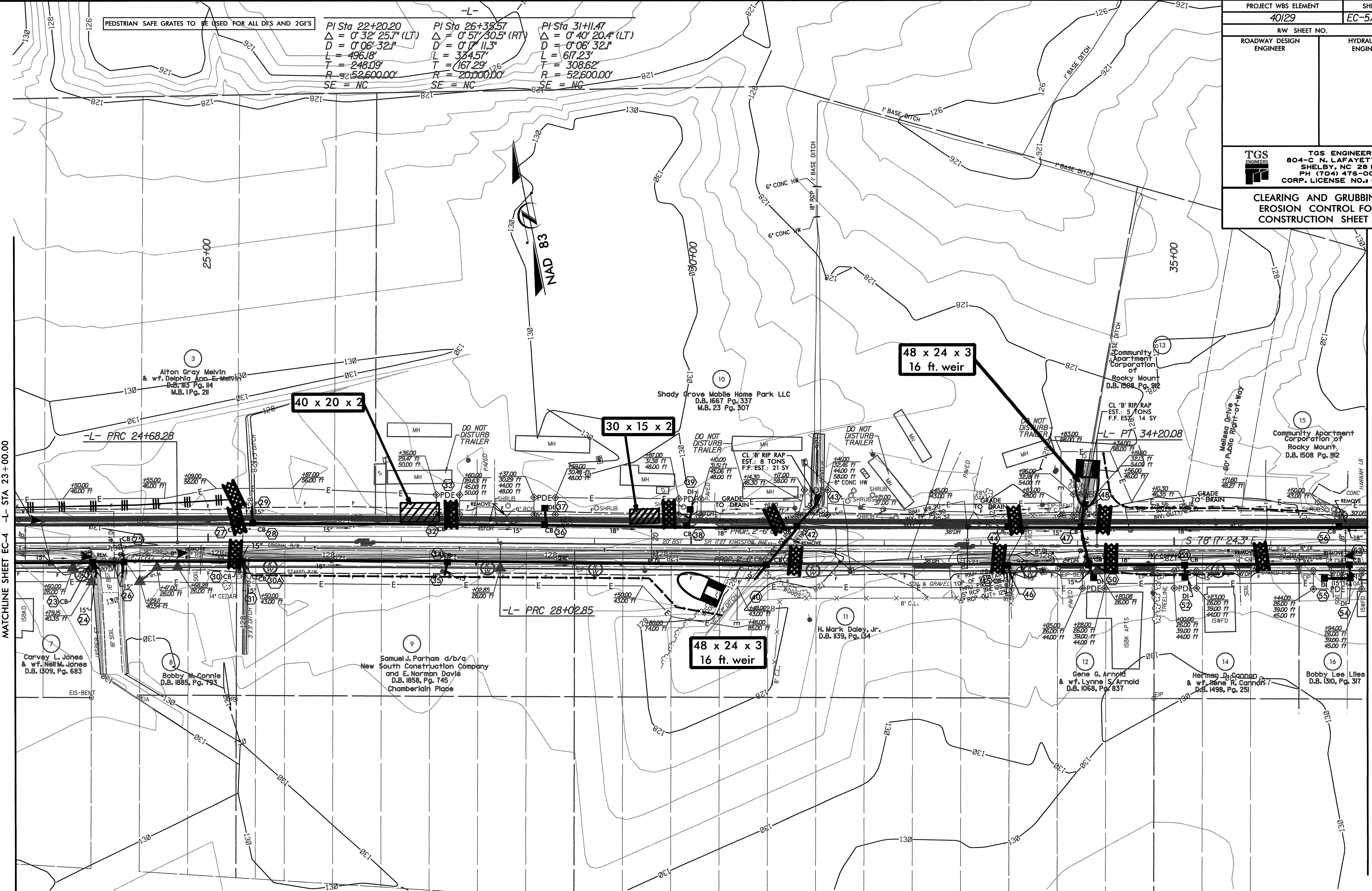
EROSION CONTROL PLAN

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MATCHLINE SHEET EC-5 -L- STA 23+00.00

8/17/99

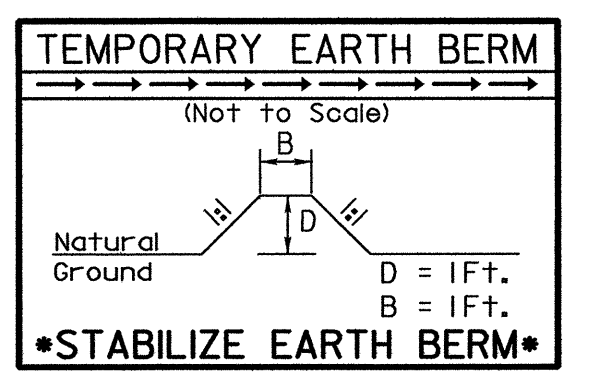
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275	
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5	



REVISIONS

MATCHLINE SHEET EC-4 -L- STA. 23+00.00

MATCHLINE SHEET EC-6 -L- STA. 37+00.00



EROSION CONTROL PLAN

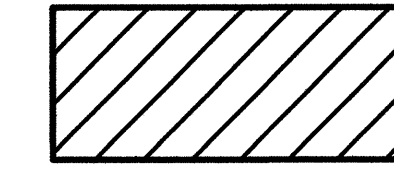
8/17/99

-L-

$PI\ Sta\ 47+21.15$
 $\Delta = 12' 28" 41.4" (LT)$
 $D = 6' 21" 58.3"$
 $L = 196.0'$
 $T = 98.39'$
 $R = 900.00'$
 $SE = 0.04$

-Y3-

$PI\ Sta\ 10+40.63$
 $\Delta = 29' 59" 41.2" (LT)$
 $D = 37' 46' 32.4"$
 $L = 79.40'$
 $T = 40.63'$
 $R = 151.67'$
 $SE = EXIST.$



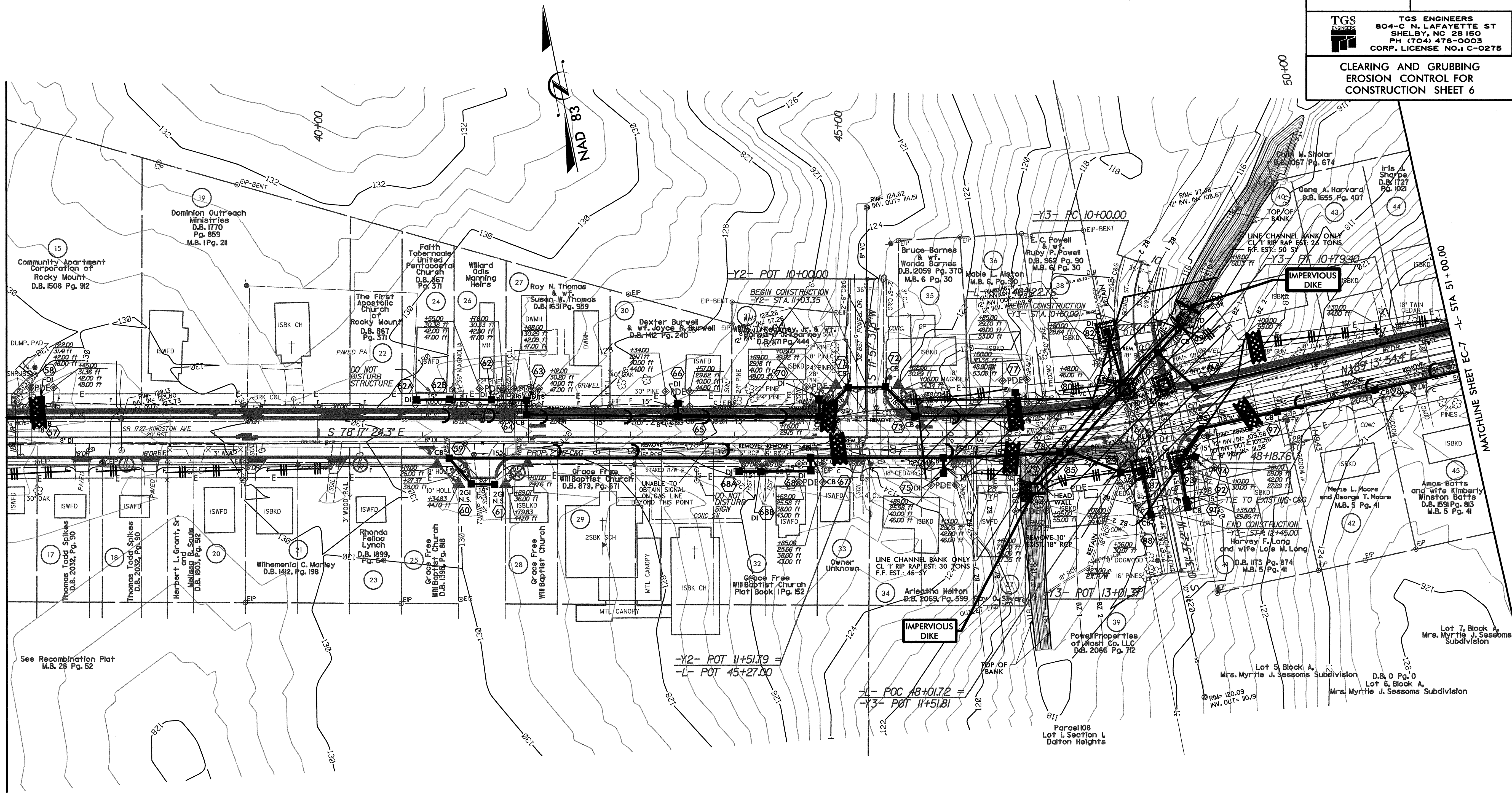
ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

PROJECT WBS ELEMENT 40129	SHEET NO. EC-6/CONST.6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0276	
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6	

REVISIONS

MATCHLINE SHEET EC-5 -L- STA 37+00.00

MATCHLINE SHEET EC-7 -L- STA 51+00.00



- PUMP-AROUND SHALL BE USED IN ACCORDANCE WITH NORTH CAROLINA BMP MANUAL FOR INSTALLATION OF CROSS PIPES AT -L- STA. 47+40+/-.
- MAINTENANCE OF STREAM FLOW SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS, AND HOSES.
- SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA:
1. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
 2. PLACE UPSTREAM IMPERVIOUS DIKES AND BEGIN PUMPING OPERATIONS.
 3. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA.
 4. REMOVE EXISTING CROSS PIPES.
 5. COMPLETE CONSTRUCTION OF PROPOSED CROSS PIPES.
 6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE (DOWNSTREAM IMPERVIOUS DIKES FIRST).
 7. SEED AND PLACE COIR FIBER MATTING ON ANY SLOPES THAT WERE DISTURBED DURING CONSTRUCTION.

EROSION CONTROL PLAN

8/17/99

PUMP-AROUND SHALL BE USED IN ACCORDANCE WITH NORTH CAROLINA BMP MANUAL FOR INSTALLATION OF CROSS PIPES AT -L- STA. 61+25+/-.

MAINTENANCE OF STREAM FLOW SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS, AND HOSES.

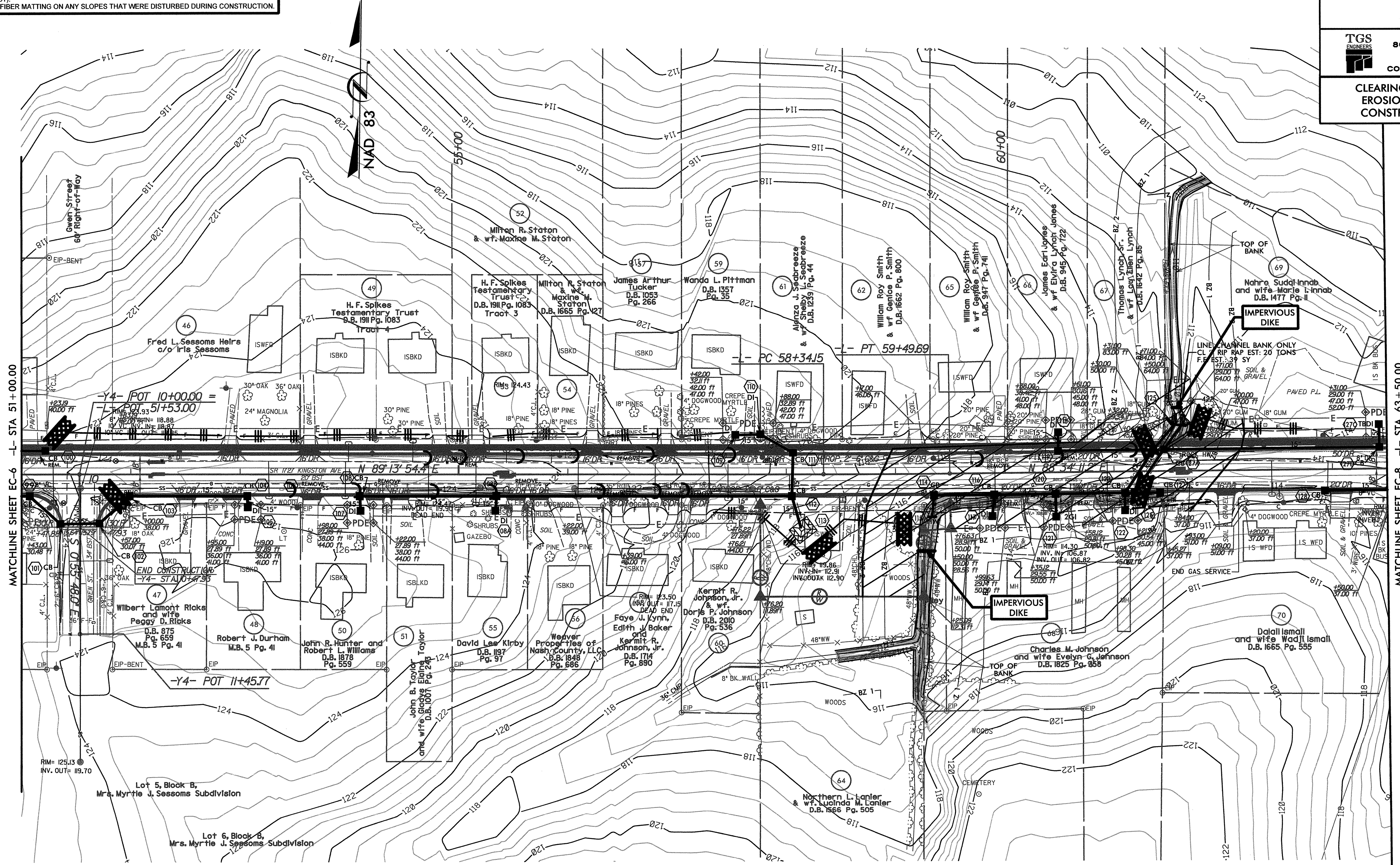
SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA:

1. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
2. PLACE UPSTREAM IMPERVIOUS DIKES AND BEGIN PUMPING OPERATIONS.
3. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA.
4. REMOVE EXISTING CROSS PIPES.
5. COMPLETE CONSTRUCTION OF PROPOSED CROSS PIPES.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE (DOWNSTREAM IMPERVIOUS DIKES FIRST).
7. SEED AND PLACE COIR FIBER MATTING ON ANY SLOPES THAT WERE DISTURBED DURING CONSTRUCTION.

-L-
 PI Sta 58+91.92
 $\Delta = 0' 39' 43.1''$ (LT)
 $D = 0' 34' 22.6''$
 $L = 115.54'$
 $T = 57.77'$
 $R = 10,000.00'$
 SE = NC

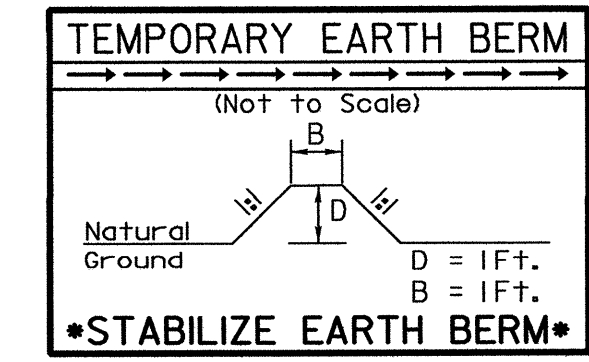
PROJECT WBS ELEMENT		SHEET NO.
40129		EC-7/CONST.7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275		
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7		

REVISIONS



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

EROSION CONTROL PLAN



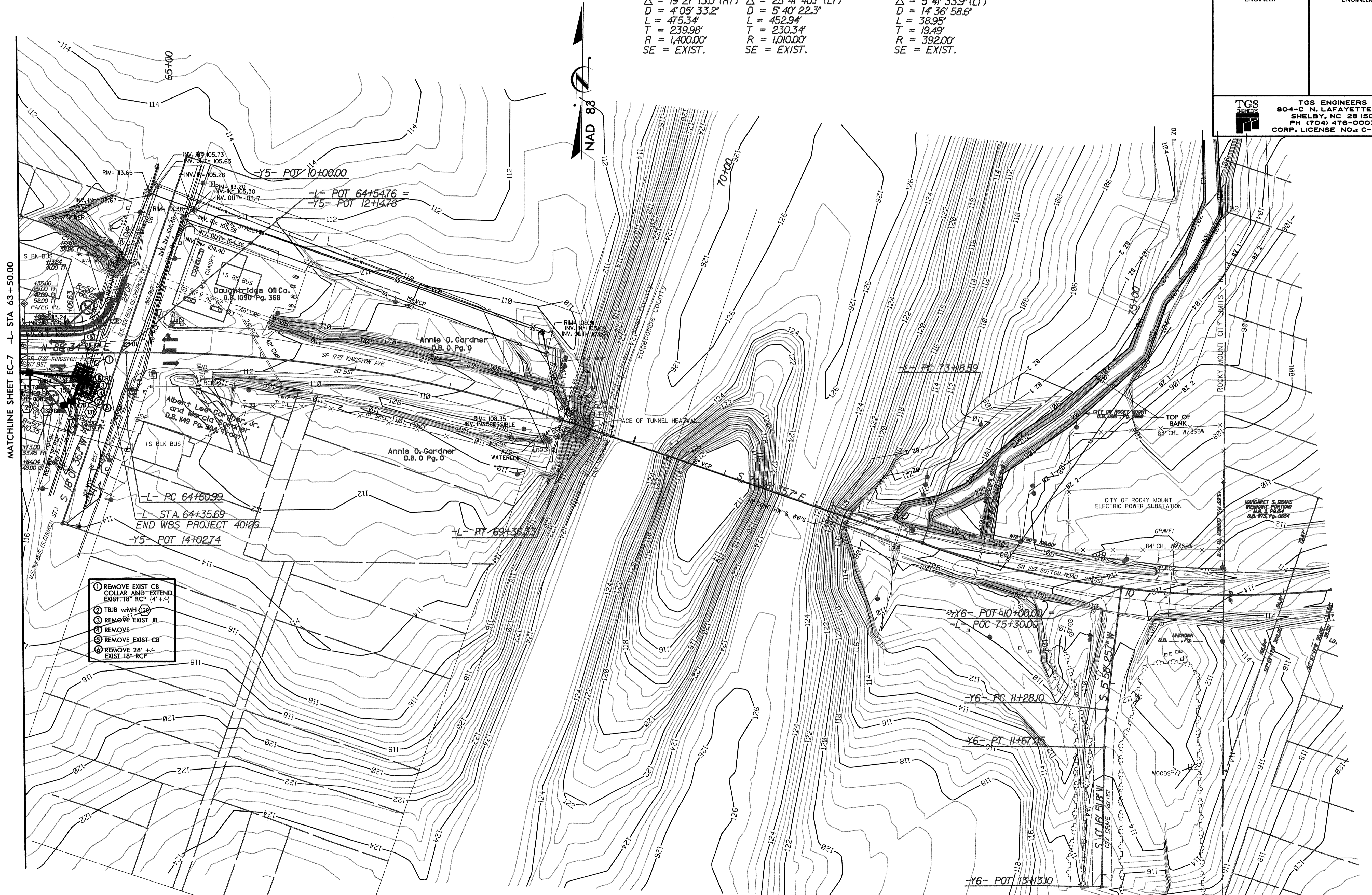
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 TGS

8/17/99

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

PROJECT WBS ELEMENTS	SHEET NO.
40129	EC-8/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275	

-L-		-Y6-	
PI Sta 67+00.97	PI Sta 75+48.94	PI Sta 11+47.59	
$\Delta = 19' 27'' 13.0''$ (RT)	$\Delta = 25' 4'' 40.7''$ (LT)	$\Delta = 5' 4'' 33.9''$ (LT)	
D = 4' 05'' 33.2"	D = 5' 40'' 22.3"	D = 14' 36'' 58.6"	
L = 475.34'	L = 452.94'	L = 38.95'	
T = 239.98'	T = 230.34'	T = 19.49'	
R = 1,400.00'	R = 1,010.00'	R = 392.00'	
SE = EXIST.	SE = EXIST.	SE = EXIST.	



- 1 REMOVE EXIST CB COLLAR AND EXTEND EXIST 18" RCP (4'-4")
- 2 TBIB w/MH
- 3 REMOVE EXIST JB
- 4 REMOVE
- 5 REMOVE EXIST-CB
- 6 REMOVE 28" +/- EXIST 18" RCP

MATCHLINE SHEET EC-7 -L- STA 63+50.00

REVISIONS

EROSION CONTROL PLAN

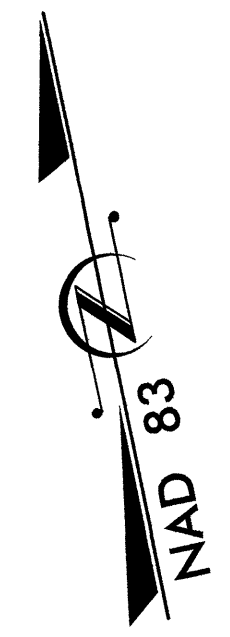
DO NOT SCALE

8/17/99

PEDESTRIAN SAFE GRATES TO BE USED FOR

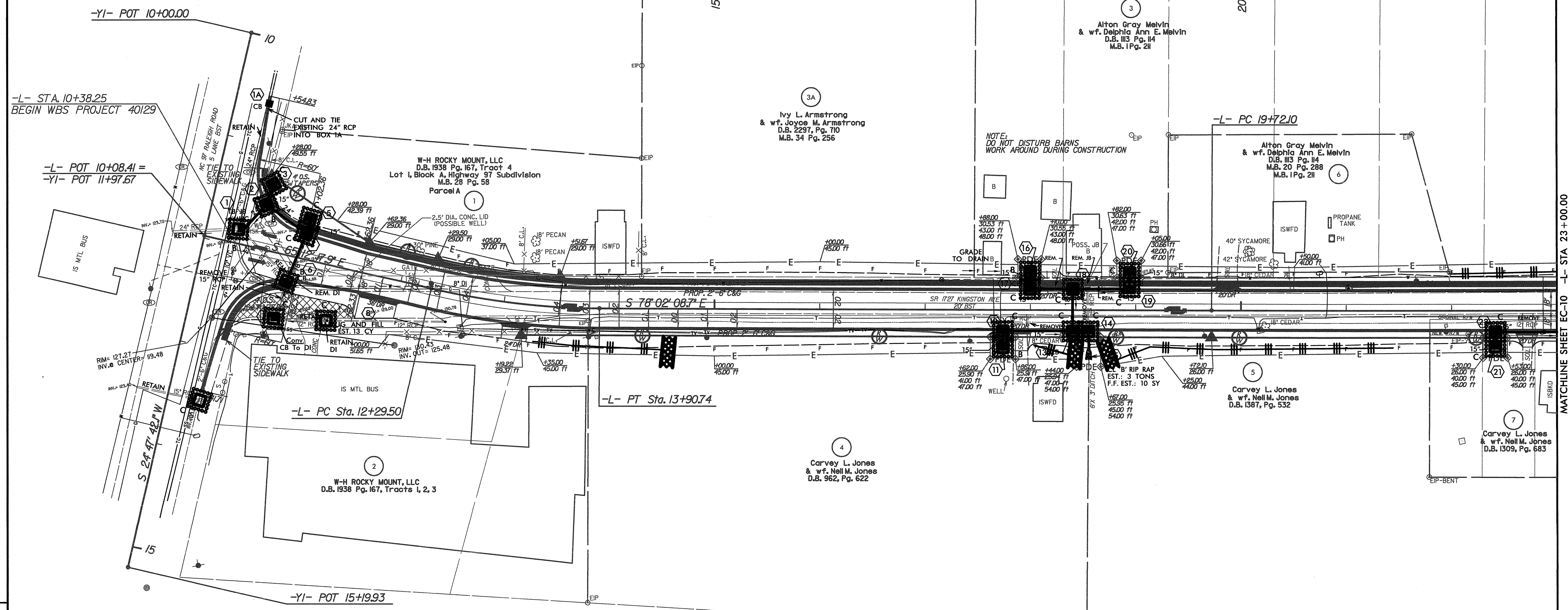
-L-

PI Sta 13+10.46	PI Sta 22+20.20
$\Delta = 12' 49" 50.8" (LT)$	$\Delta = 0' 32" 25.7" (LT)$
$D = 7' 57" 27.9"$	$D = 0' 06" 32.1"$
$L = 161.24'$	$L = 496.18'$
$T = 80.96'$	$T = 248.09'$
$R = 720.00'$	$R = 52,600.00'$
$SE = 0.04$	$SE = NC$



PROJECT WBS ELEMENT 40129	SHEET NO. EC-9/CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.1 C-0275	


REVISIONS

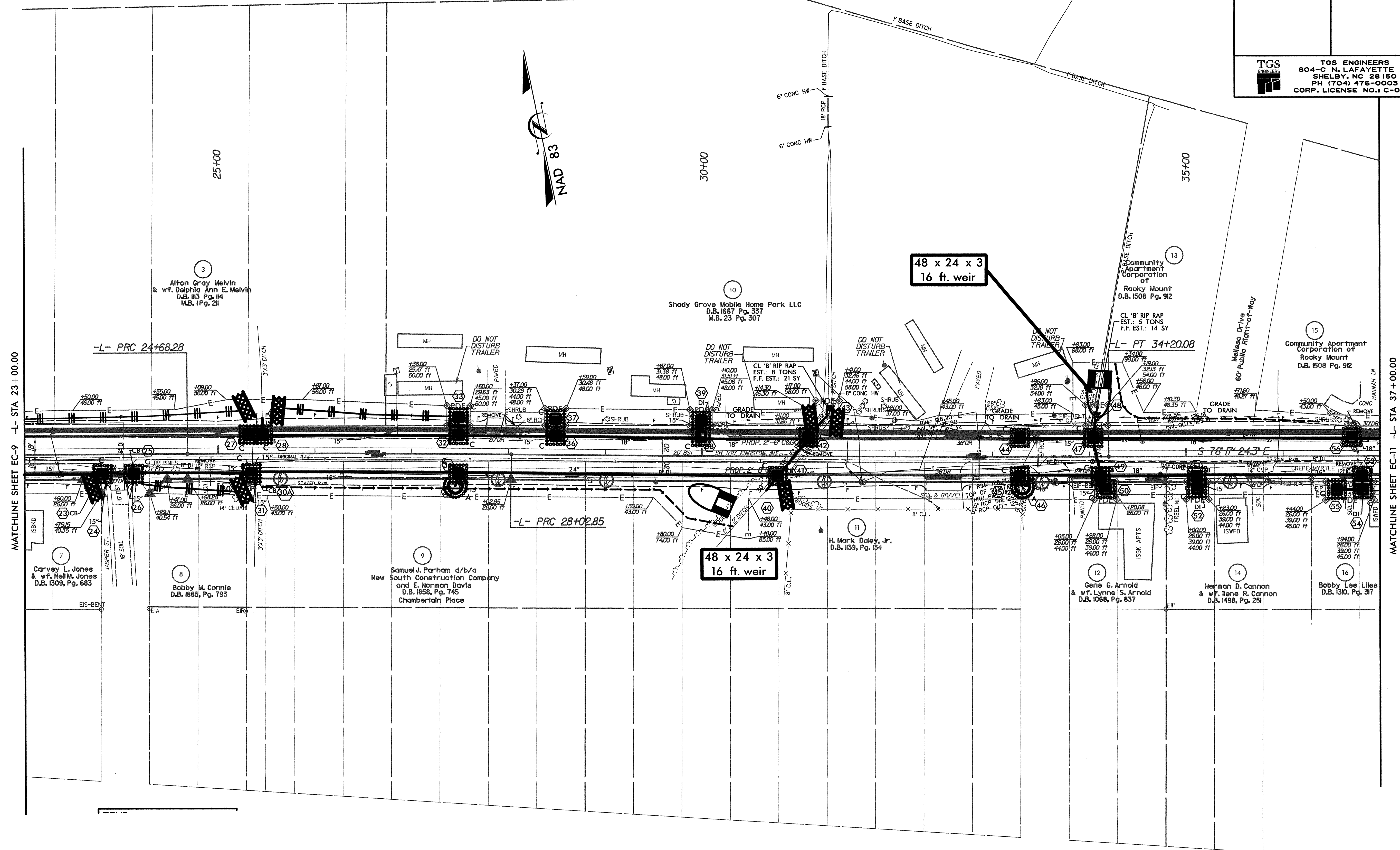


EROSION CONTROL PLAN

8/17/99

-L-		
PI Sta 22+20.20	PI Sta 26+35.57	PI Sta 31+11.47
$\Delta = 0' 32' 25.7"$ (LT)	$\Delta = 0' 57' 30.5"$ (RT)	$\Delta = 0' 40' 20.4"$ (LT)
$D = 0' 06' 32.1"$	$D = 0' 17' 11.3"$	$D = 0' 06' 32.1"$
$L = 496.18'$	$L = 334.57'$	$L = 617.23'$
$T = 248.09'$	$T = 167.29'$	$T = 308.62'$
$R = 52,600.00'$	$R = 20,000.00'$	$R = 52,600.00'$
SE = NC	SE = NC	SE = NC

PROJECT WBS ELEMENT 40129	SHEET NO. EC-10/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275	



EROSION CONTROL PLAN

REVISIONS

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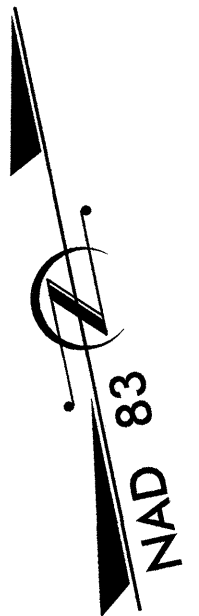
-L-

PI Sta 47+21.15
 $\Delta = 12' 28" 41.4"$ (LT)
 $D = 6' 21" 58.3"$
 $L = 196.0'$
 $T = 98.39'$
 $R = 900.00'$
 $SE = 0.04$

-Y3-

PI Sta 10+40.63
 $\Delta = 29' 59" 41.2"$ (LT)
 $D = 37' 46" 32.4"$
 $L = 79.40'$
 $T = 40.63'$
 $R = 151.67'$
 $SE = EXIST.$

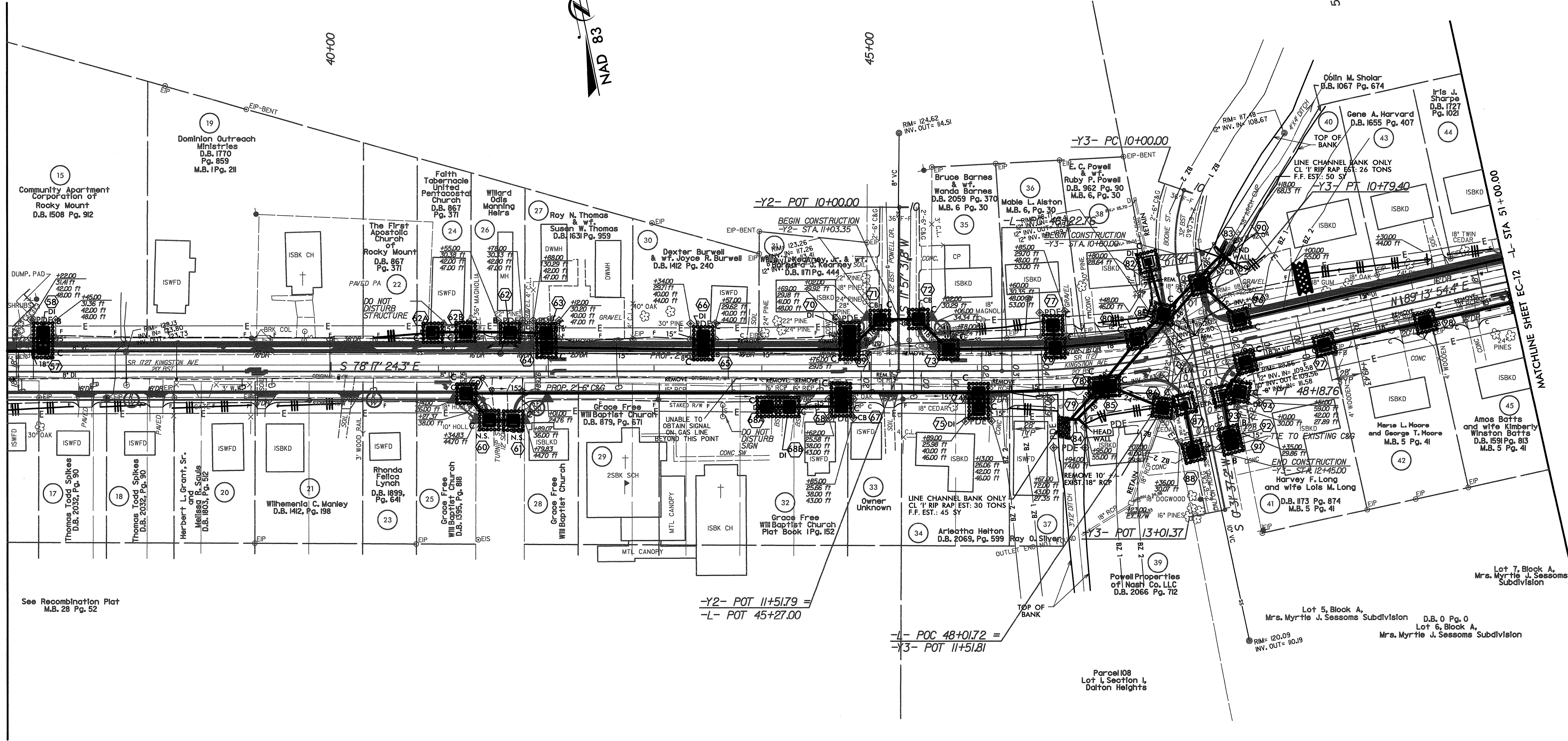
PROJECT WBS ELEMENT 40129	SHEET NO. EC-II/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275	



REVISIONS

MATCHLINE SHEET EC-10 -L- STA 37+00.00

MATCHLINE SHEET EC-12 -L- STA 51+00.00



EROSION CONTROL PLAN


8/17/99

PEDESTRIAN SAFE GRATES TO BE USED FOR ALL DI'S AND 2GI'S

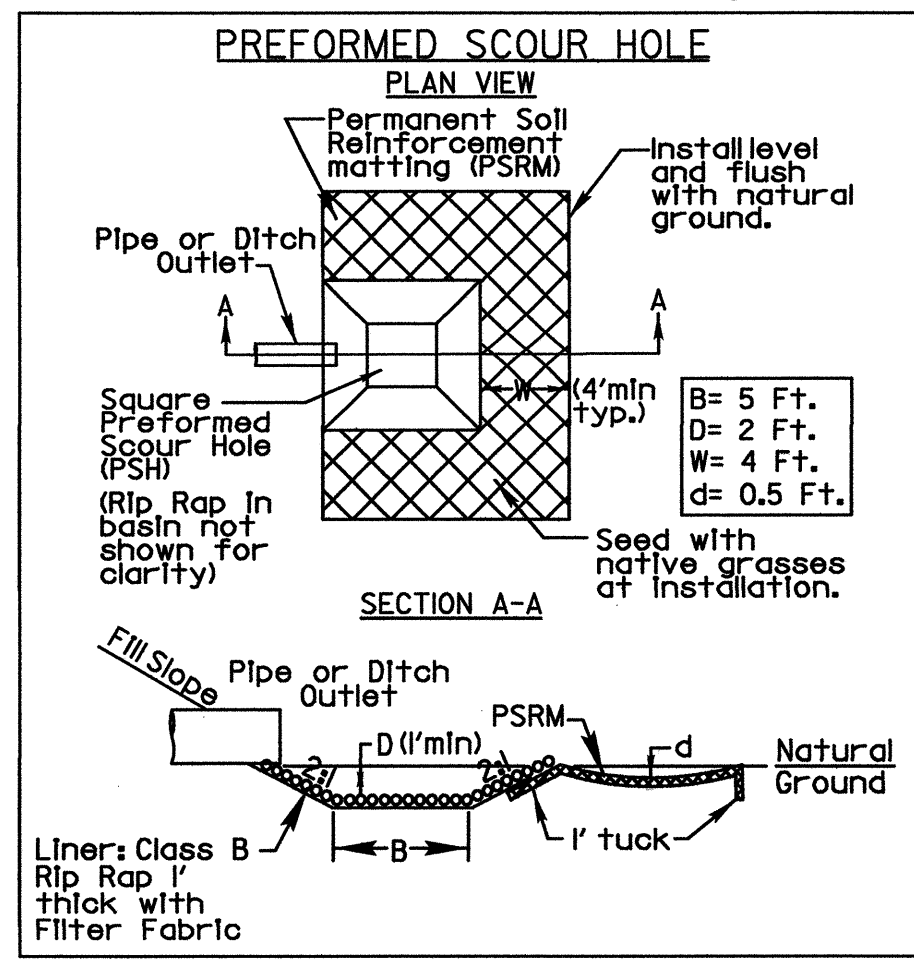
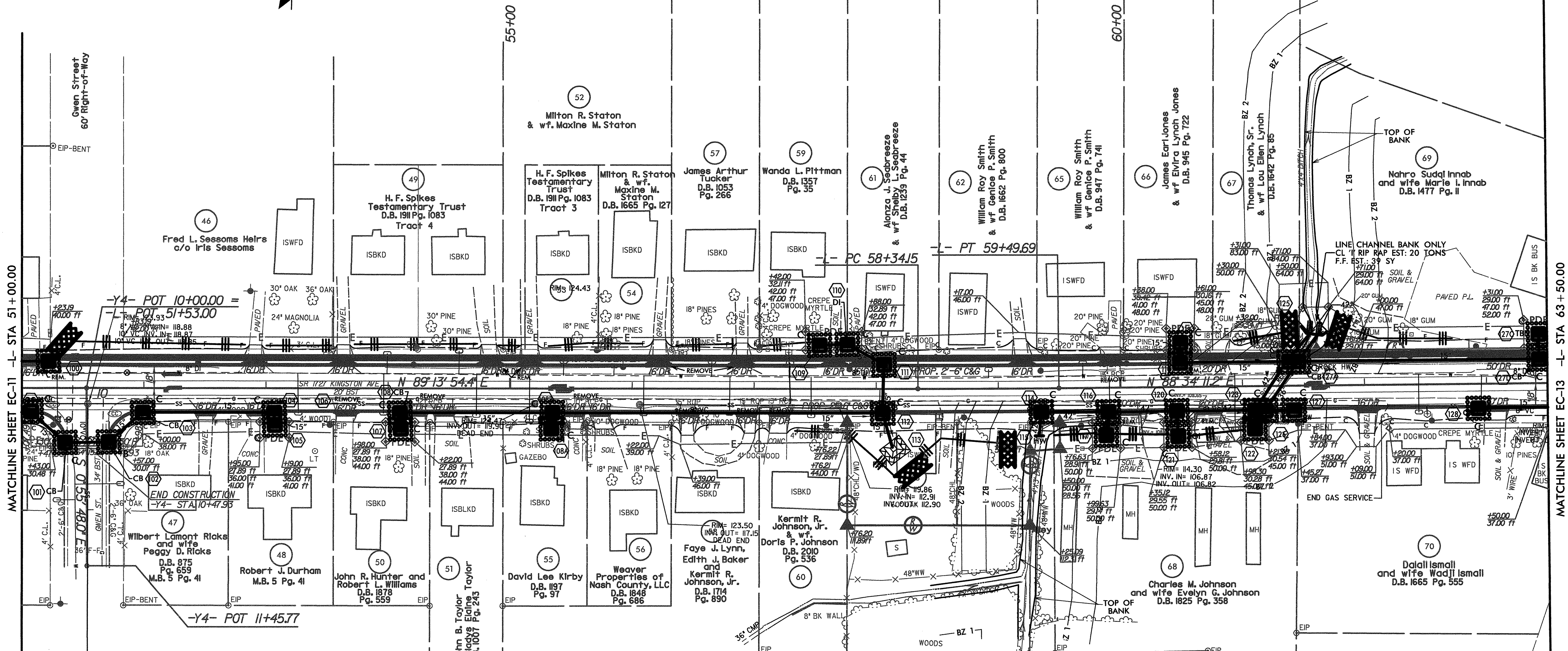
EROSION CONTROL PLAN



-L-
PI Sta 58+91.92
Δ = 0° 39' 43.1" (LT)
D = 0° 34' 22.6"
L = 115.54'
T = 57.77'
R = 10,000.00'
SE = NC

PROJECT WBS ELEMENT	SHEET NO.
40129	EC-12/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275	

REVISIONS



1. MEASUREMENTS
 2. ALL DIMENSIONS
 3. ALL DISTANCES
 4. ALL ANGLES
 5. ALL BEARINGS
 6. ALL CURVES
 7. ALL GRADES
 8. ALL SLOPES
 9. ALL ELEVATIONS
 10. ALL VOLUMES
 11. ALL WEIGHTS
 12. ALL PERCENTS
 13. ALL RATIOS
 14. ALL FRACTIONS
 15. ALL DECIMALS
 16. ALL INTEGERS
 17. ALL UNITS
 18. ALL SYMBOLS
 19. ALL ABBREVIATIONS
 20. ALL REFERENCES

-L- STA. 58+13+/- RT

8/17/99

REVISIONS

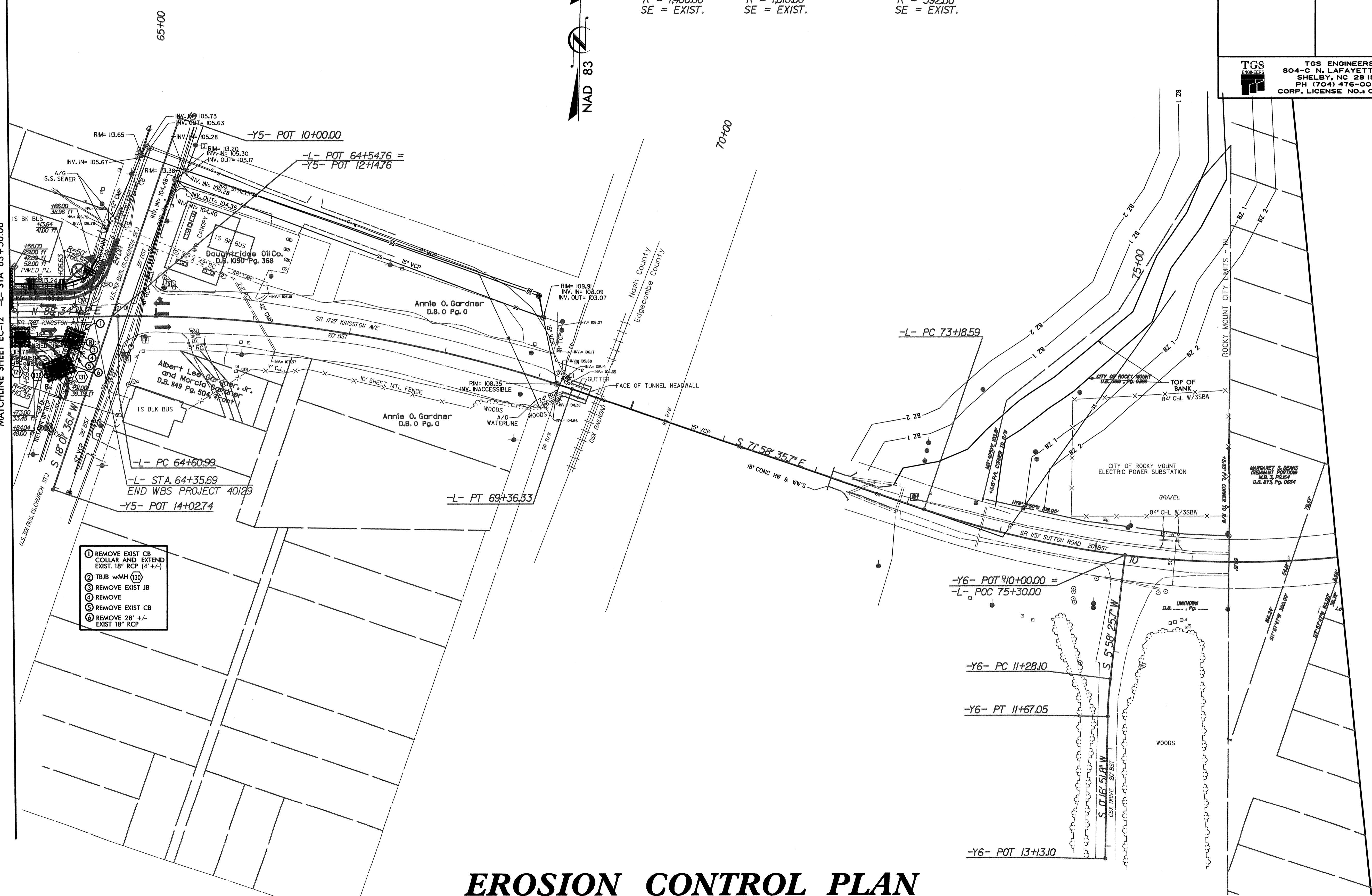
MATCHLINE SHEET EC-12 -L- STA 63+50.00



-L-
PI Sta 67+00.97
 $\Delta = 19^{\circ} 27' 13.0"$ (RT)
D = 4' 05' 33.2"
L = 475.34'
T = 239.98'
R = 1,400.00'
SE = EXIST.

-Y5-
PI Sta 75+48.94
 $\Delta = 25^{\circ} 41' 40.7"$ (LT)
D = 5' 40' 22.3"
L = 452.94'
T = 230.34'
R = 1,010.00'
SE = EXIST.

-Y6-
PI Sta 11+47.59
 $\Delta = 5^{\circ} 41' 33.9"$ (LT)
D = 14' 36' 58.6"
L = 38.95'
T = 19.49'
R = 392.00'
SE = EXIST.



- 1 REMOVE EXIST CB COLLAR AND EXTEND EXIST 18\" RCP (4' +/-)
- 2 TBJB w/MH (10)
- 3 REMOVE EXIST JB REMOVE
- 4 REMOVE EXIST CB
- 5 REMOVE 28' +/- EXIST 18\" RCP

EROSION CONTROL PLAN

PROJECT WBS ELEMENTS 40129	SHEET NO. EC-13/CONST B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	