

**TIP PROJECT: R-3405**

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

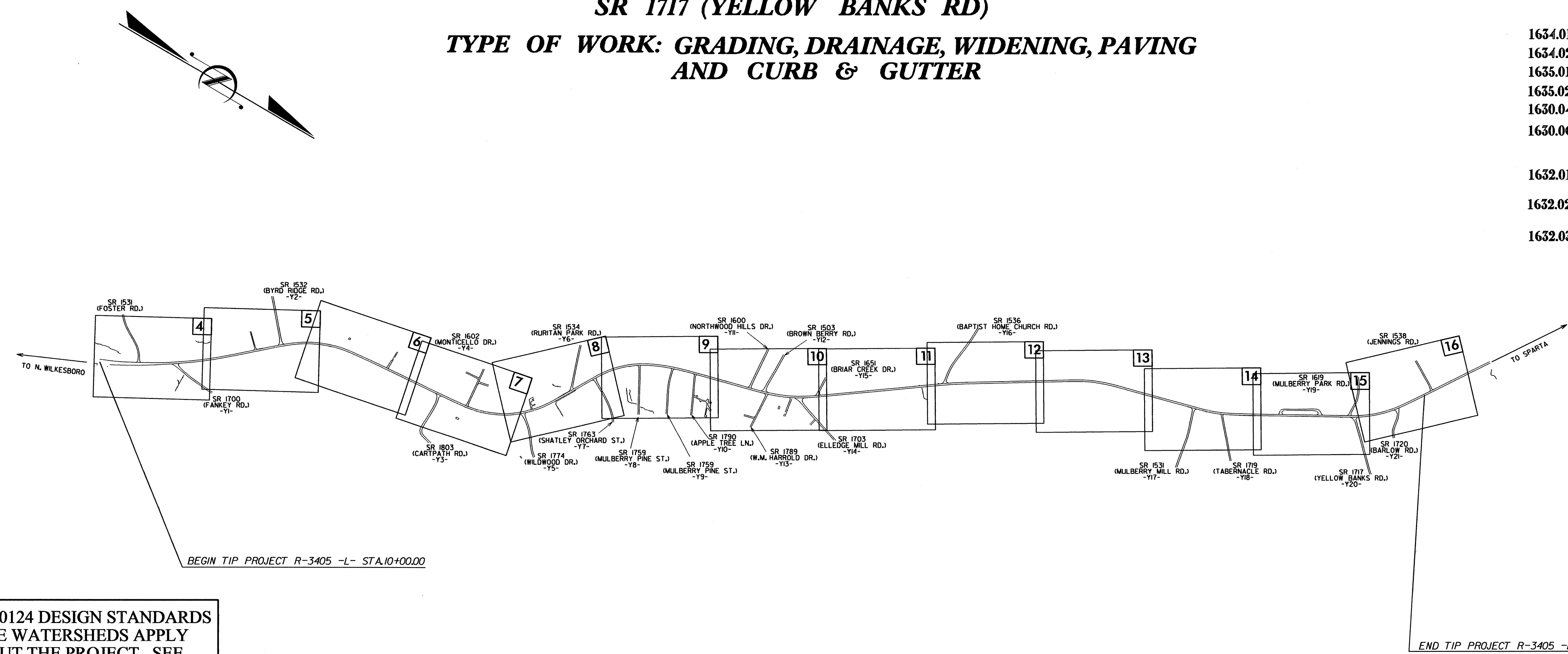
**LOCATION: NC 18 FROM SR 1002 (MT. VIEW RD) TO  
 SR 1717 (YELLOW BANKS RD)**

**TYPE OF WORK: GRADING, DRAINAGE, WIDENING, PAVING  
 AND CURB & GUTTER**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3405	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	TBD
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	⤵
	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	▭

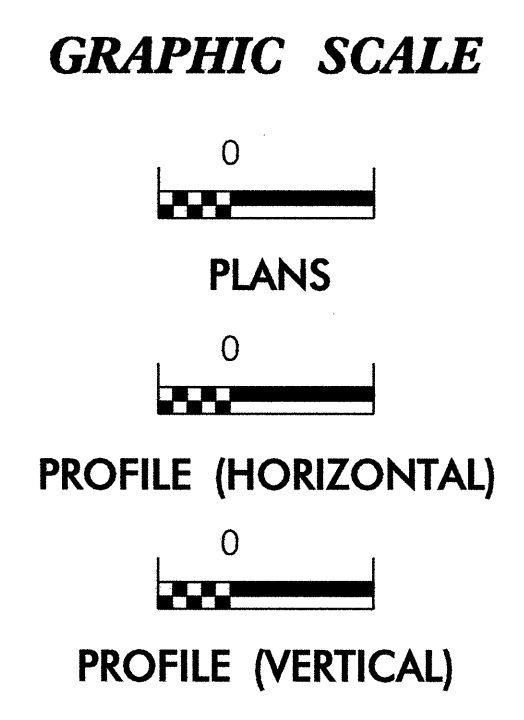


15A NCAC 04B .0124 DESIGN STANDARDS IN SENSITIVE WATERSHEDS APPLY THROUGHOUT THE PROJECT. SEE HIGH QUALITY WATER SPECIAL PROVISION.

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

**THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.**

**HIGH QUALITY WATER(S) EXIST ON THIS PROJECT**  
 High Quality Water Zone(s) Exist From Sta. 10+00 to Sta. 186+00 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.

Prepared In the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
 1 South Wilmington St.  
 Raleigh, NC 27611  
**2012 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

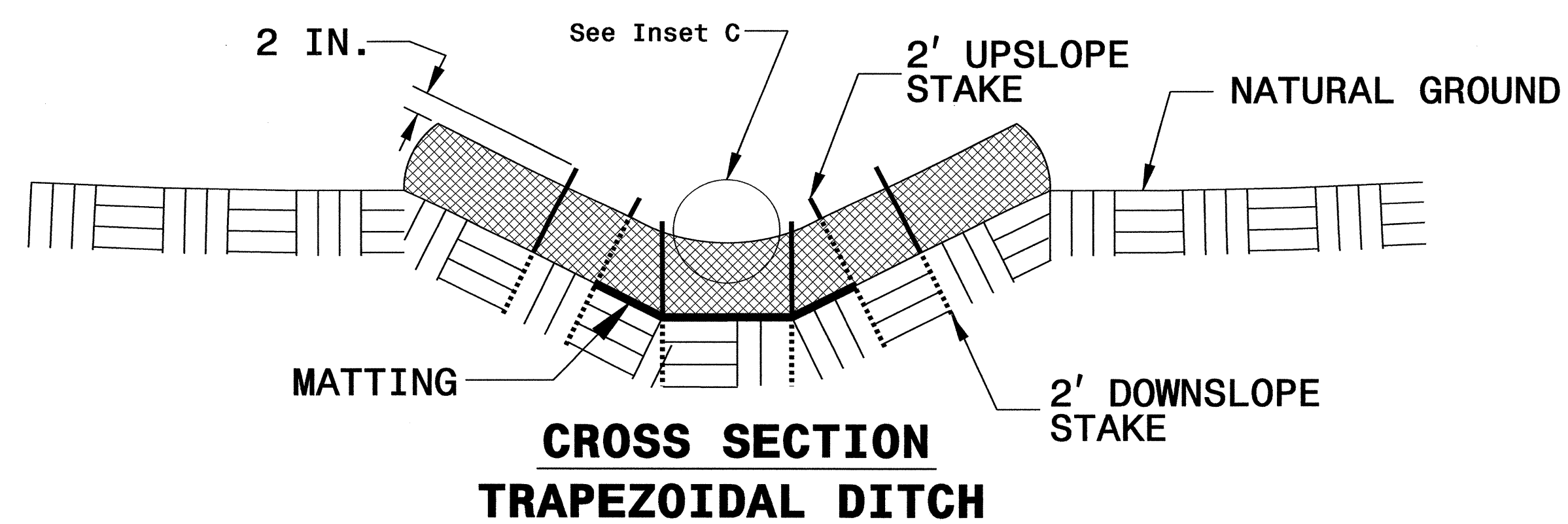
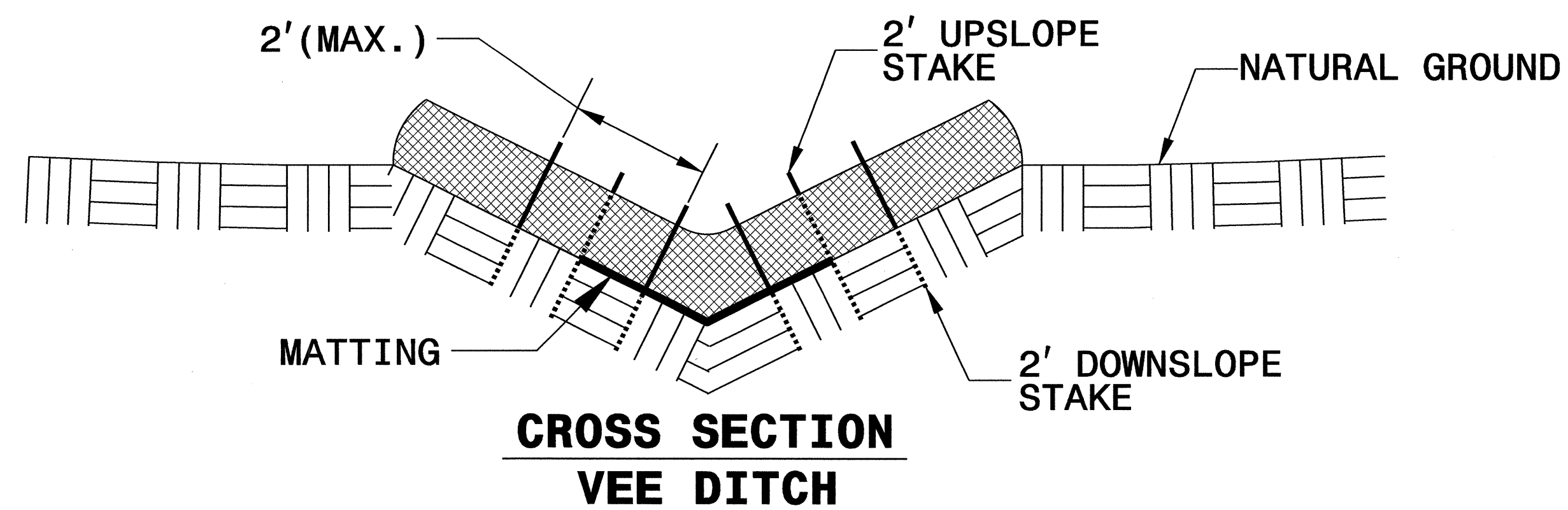
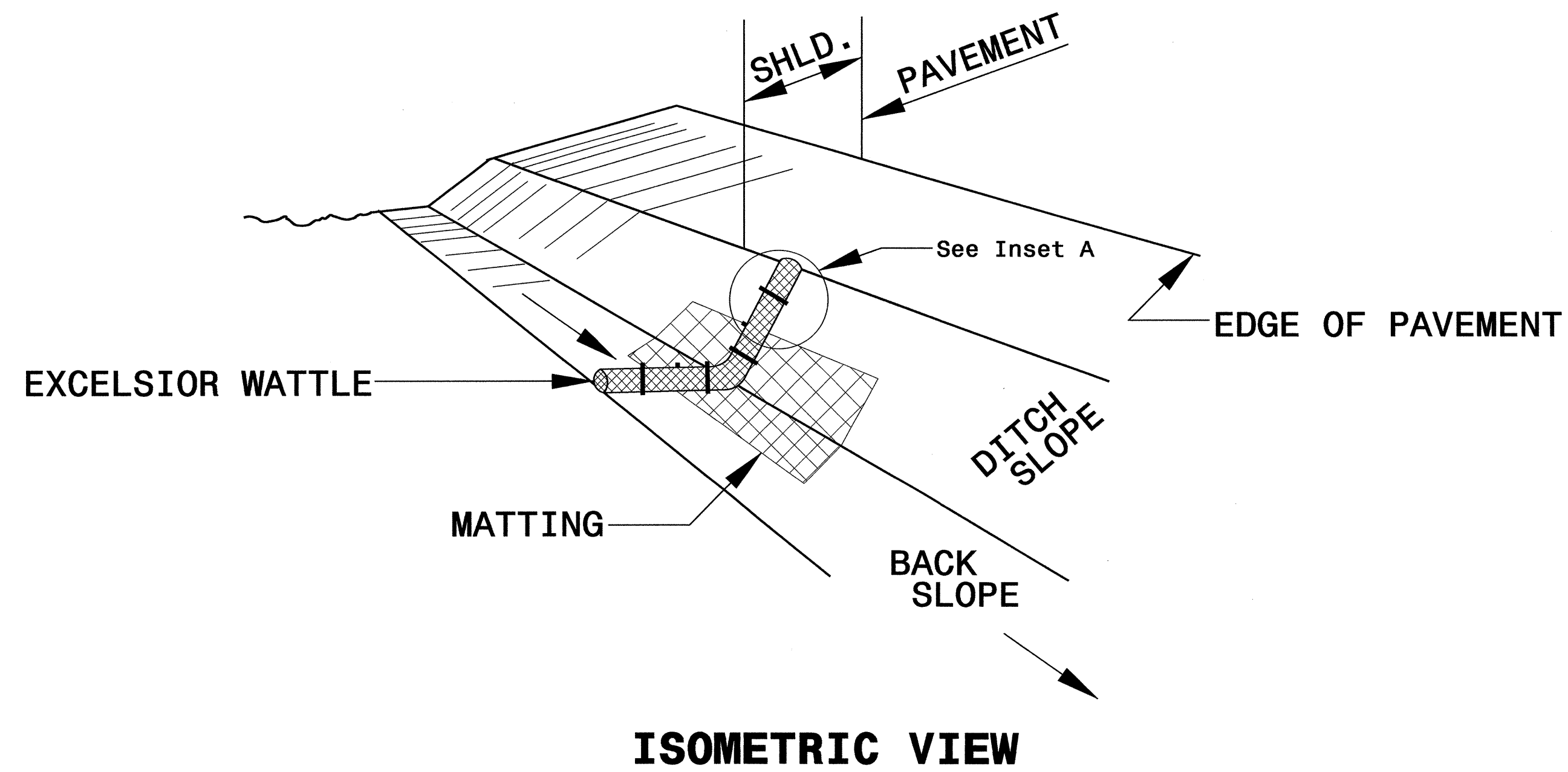
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	

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PROJECT REFERENCE NO. R-3405	SHEET NO. EC-02
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.

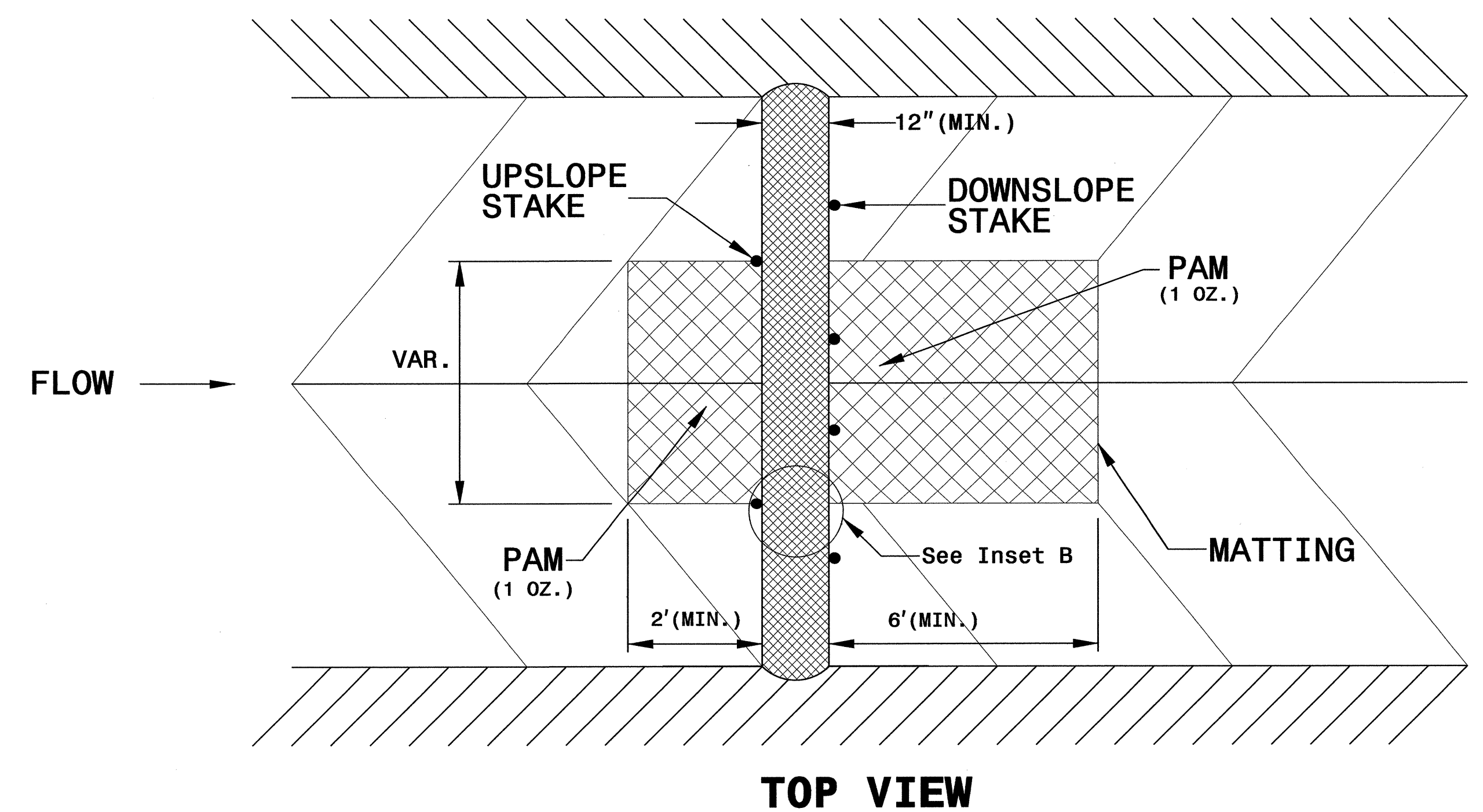
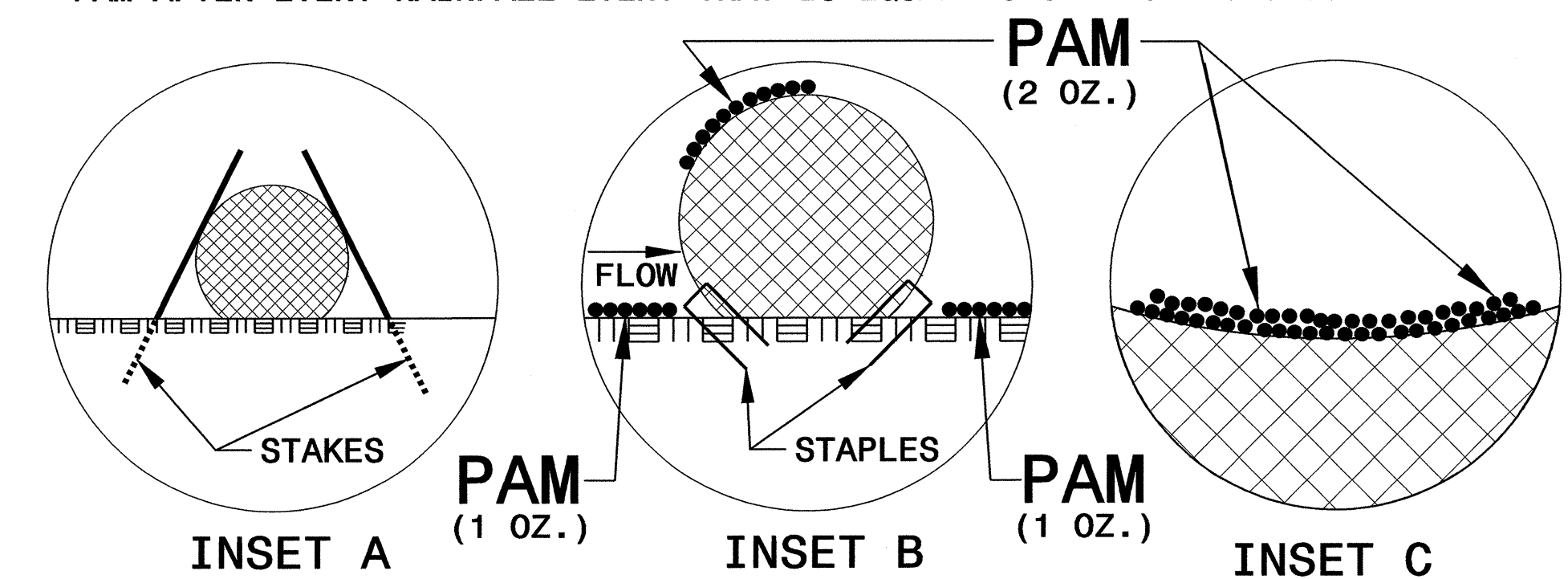
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

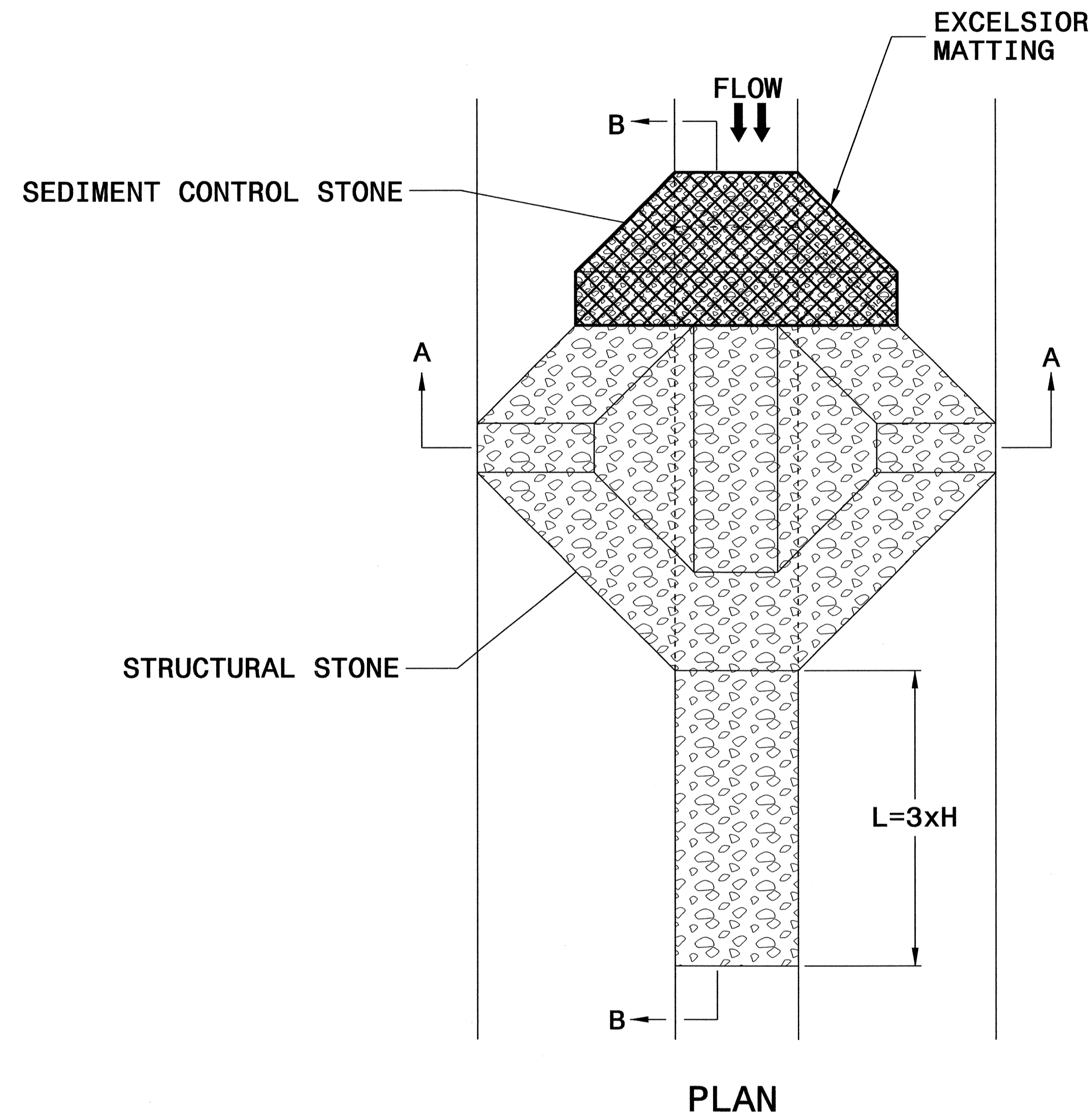
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





PROJECT REFERENCE NO. R-3405	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

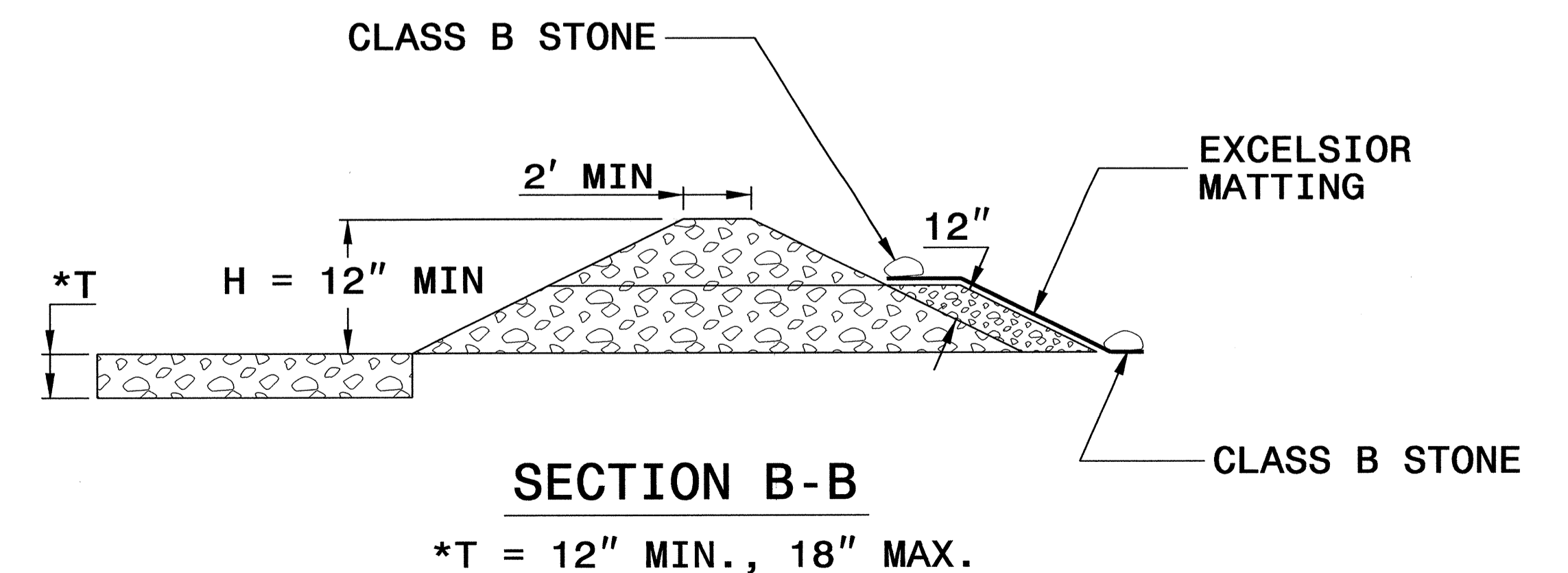
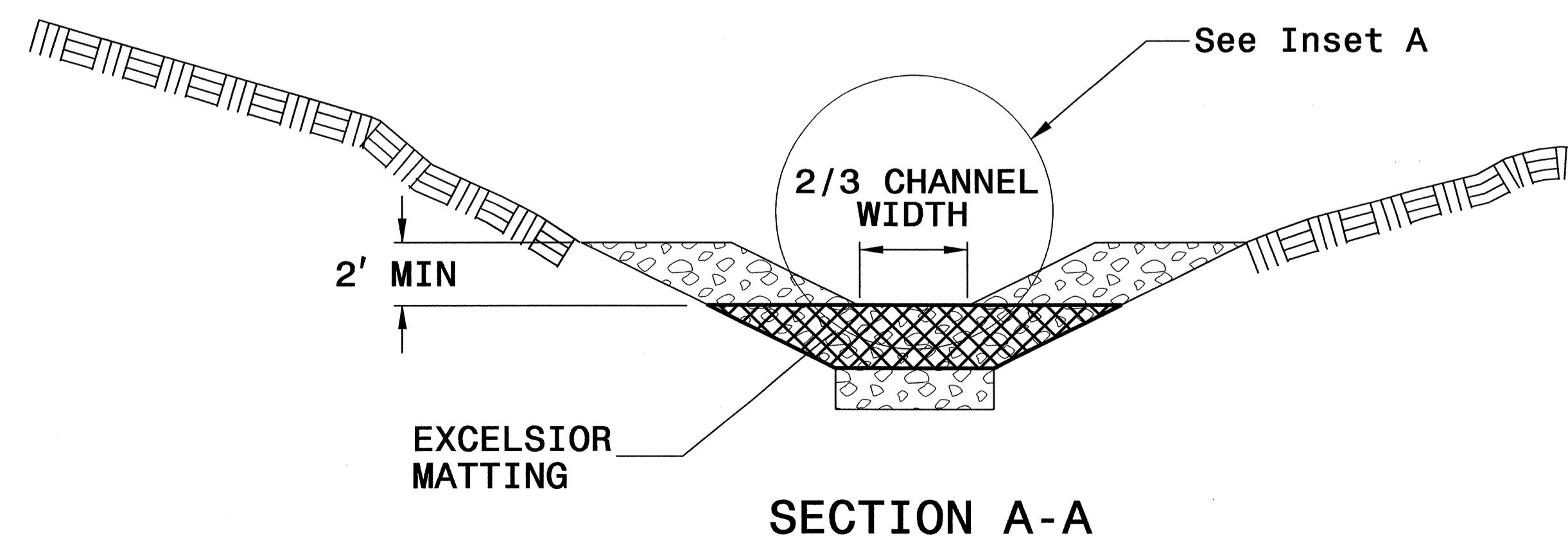
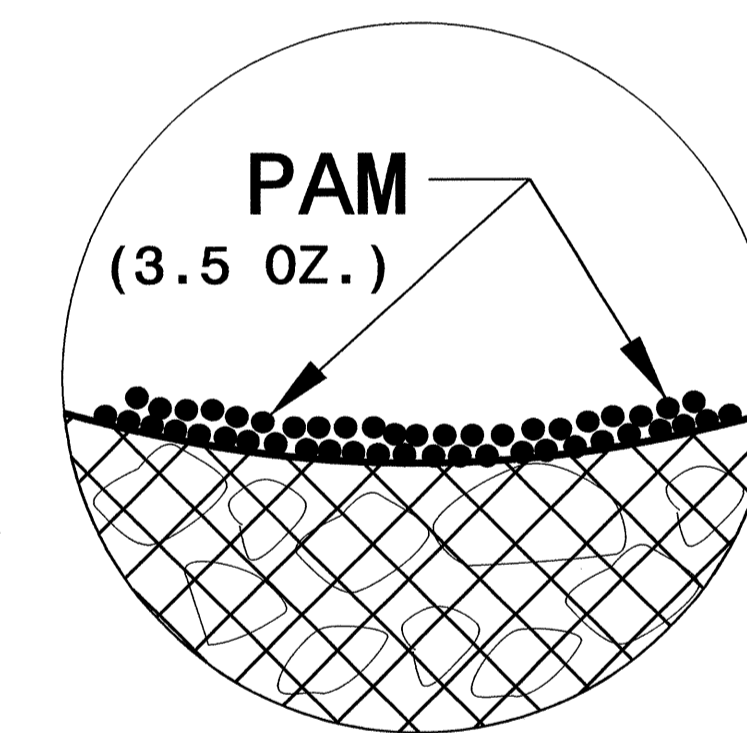


## NOTES

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.

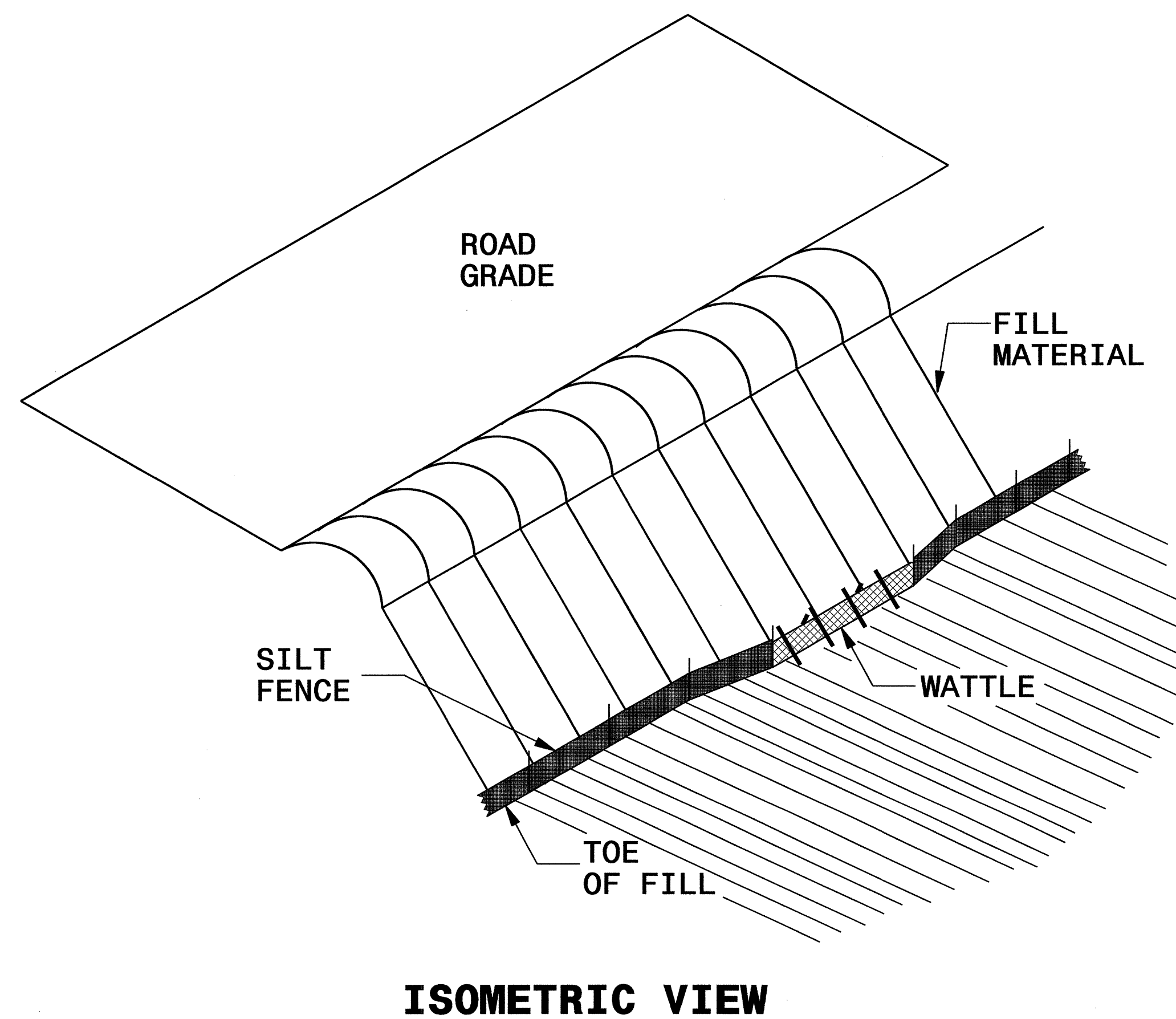
INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



NOT TO SCALE

# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

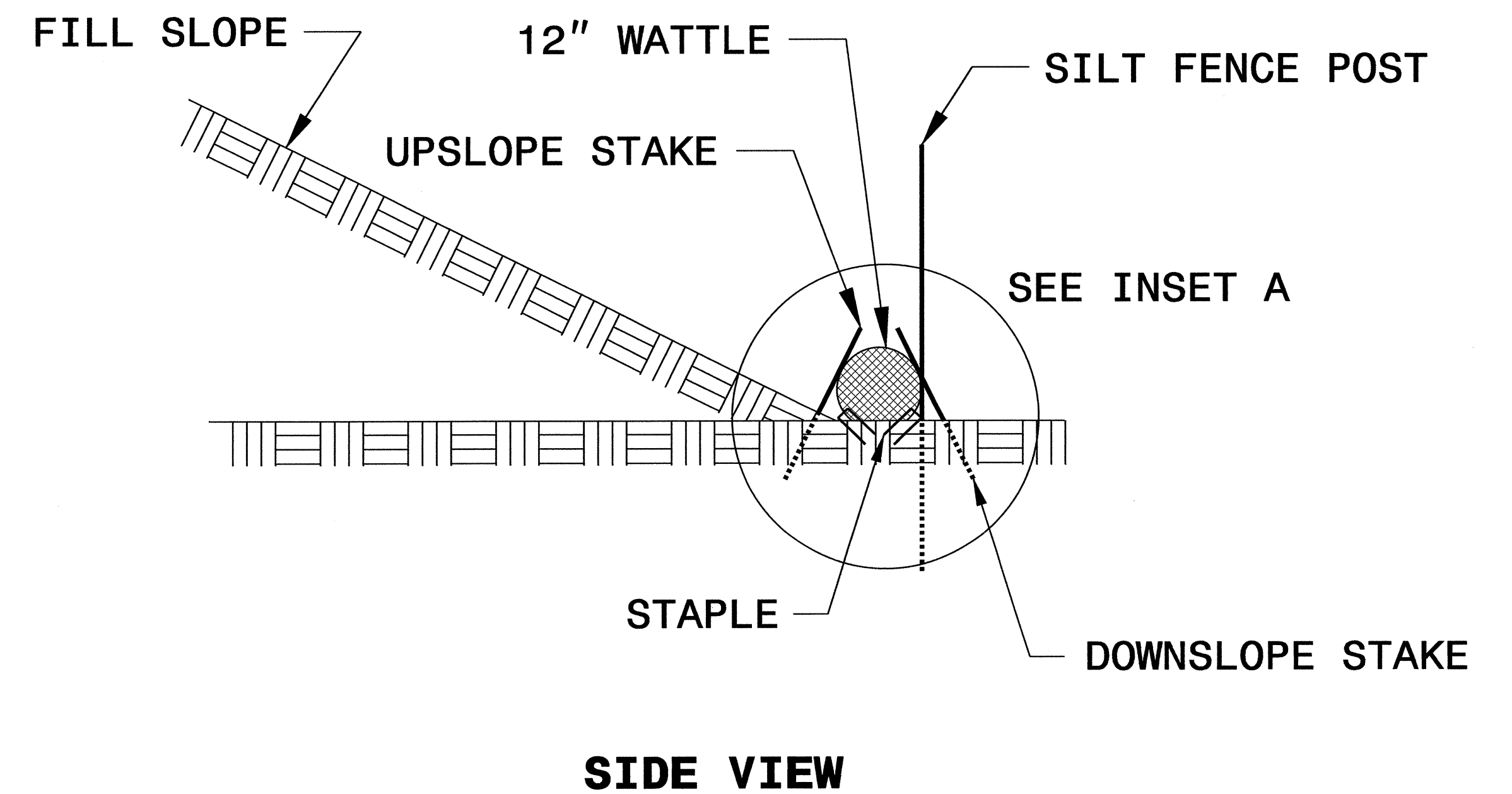
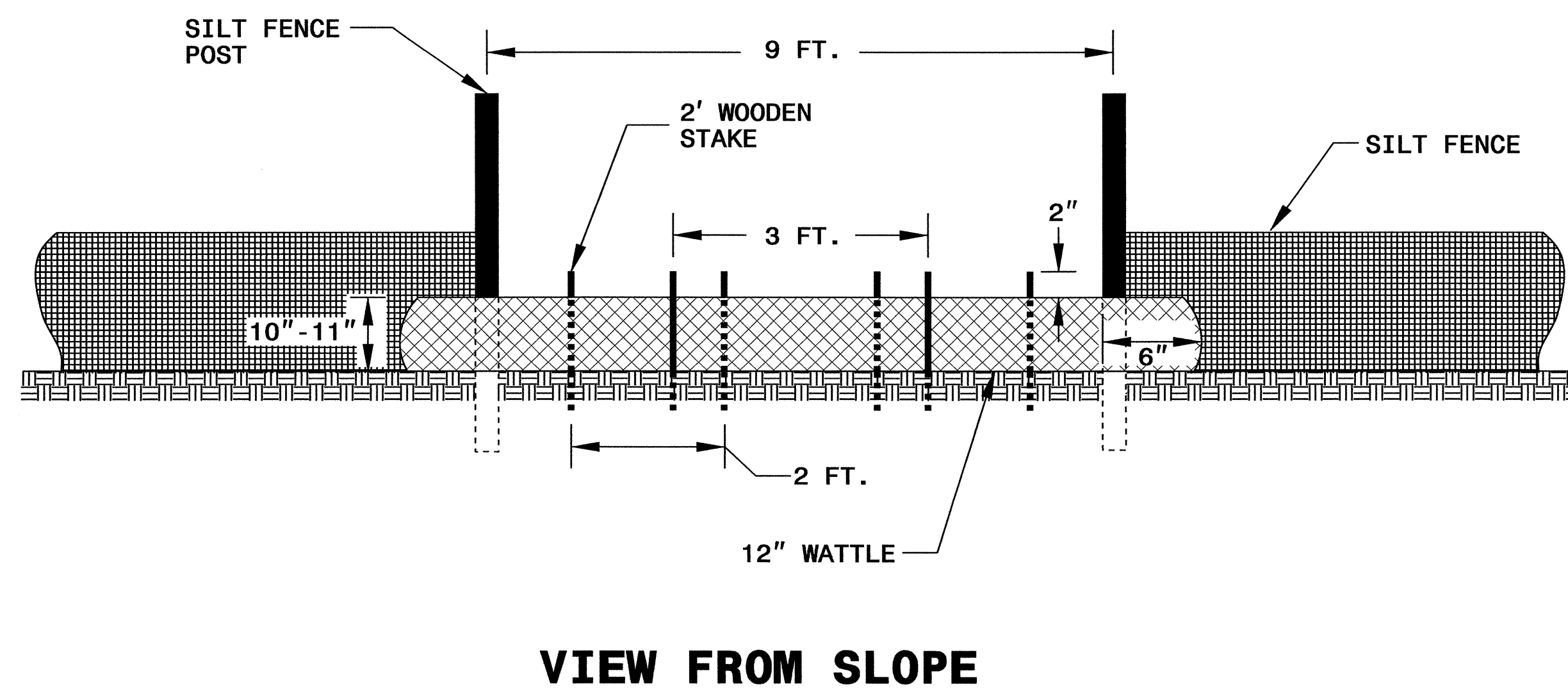
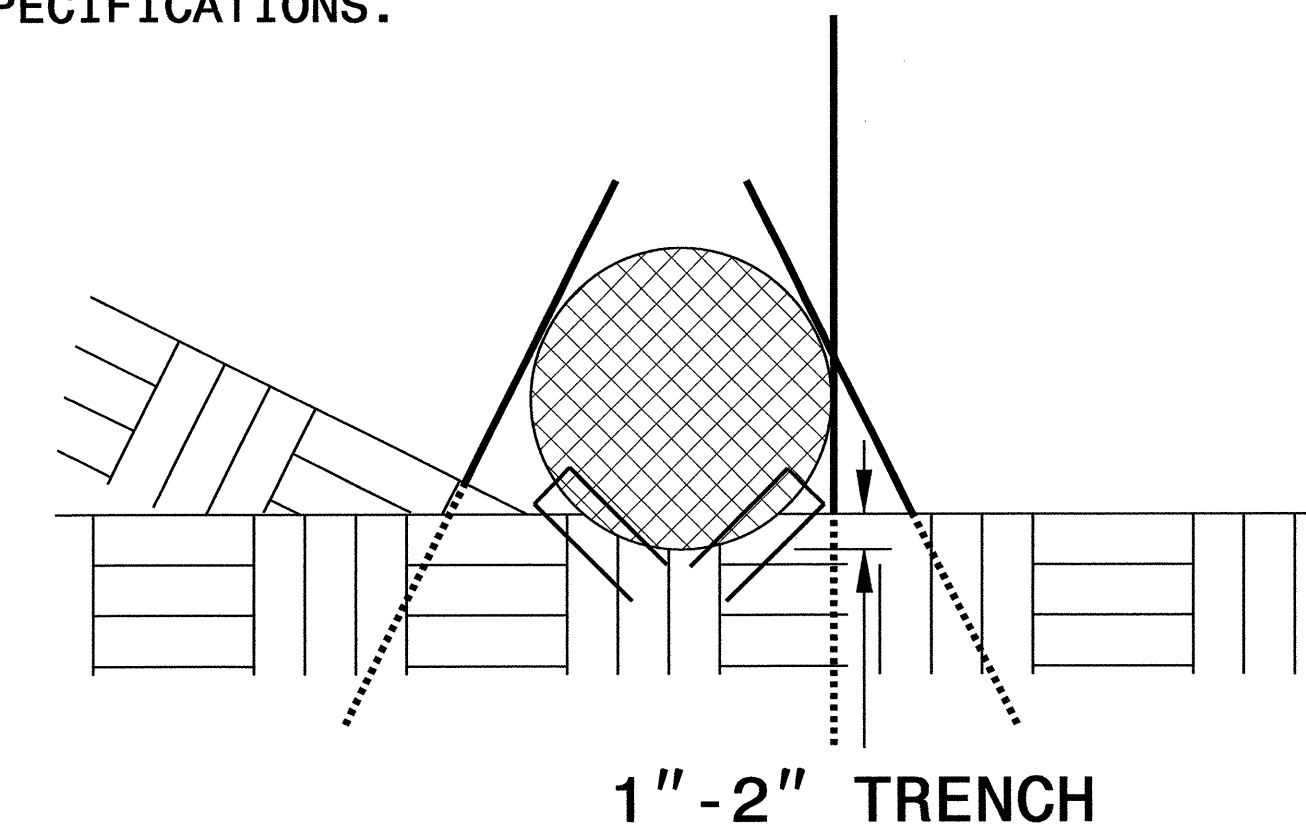
PROJECT REFERENCE NO. R-3405		SHEET NO. EC-2B	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



**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









DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>R-3405</i>	SHEET NO. <i>EC-3B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## ***SOIL STABILIZATION TIMEFRAMES***

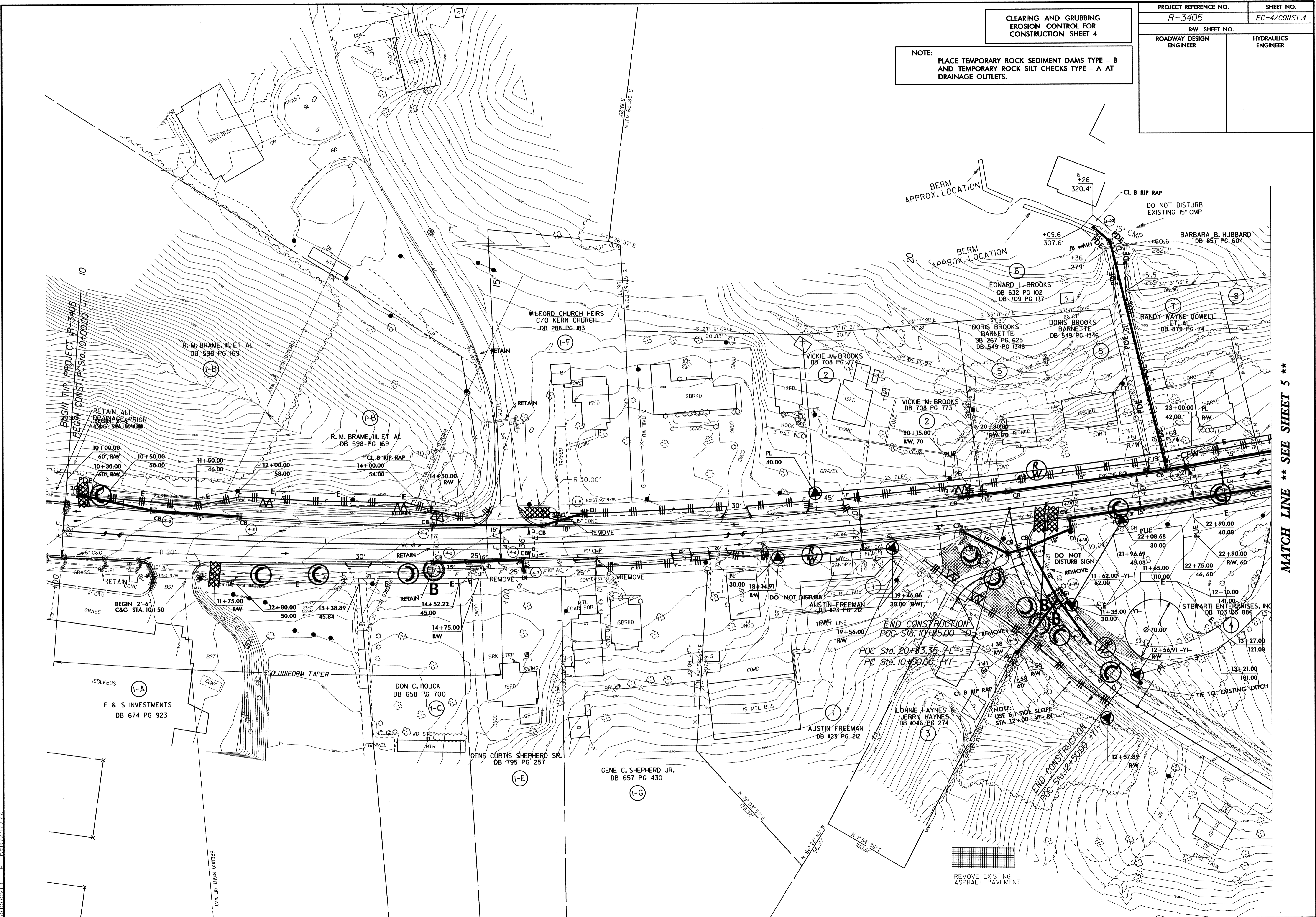
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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.



PROJECT REFERENCE NO. R-3405		SHEET NO. EC-4/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

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



MATCH LINE \*\* SEE SHEET 5 \*\*

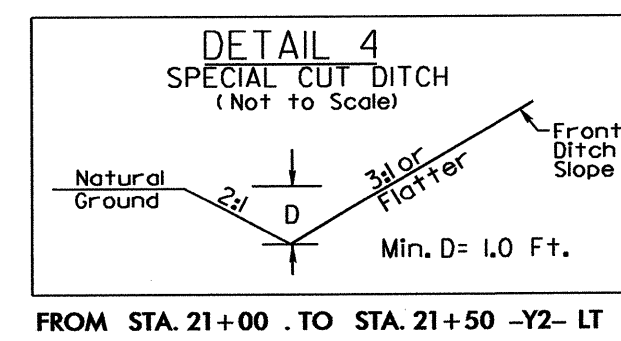
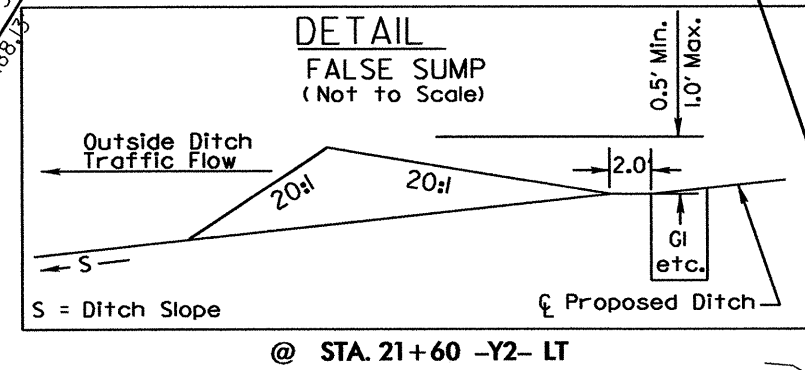
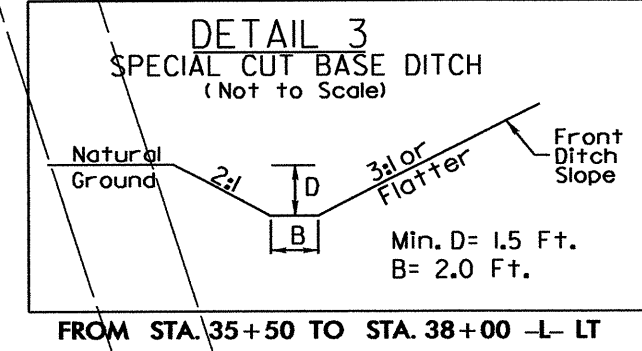
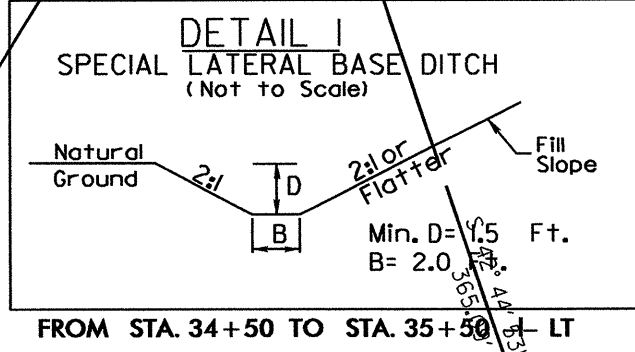
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PROJECT REFERENCE NO.	SHEET NO.
R-3405	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

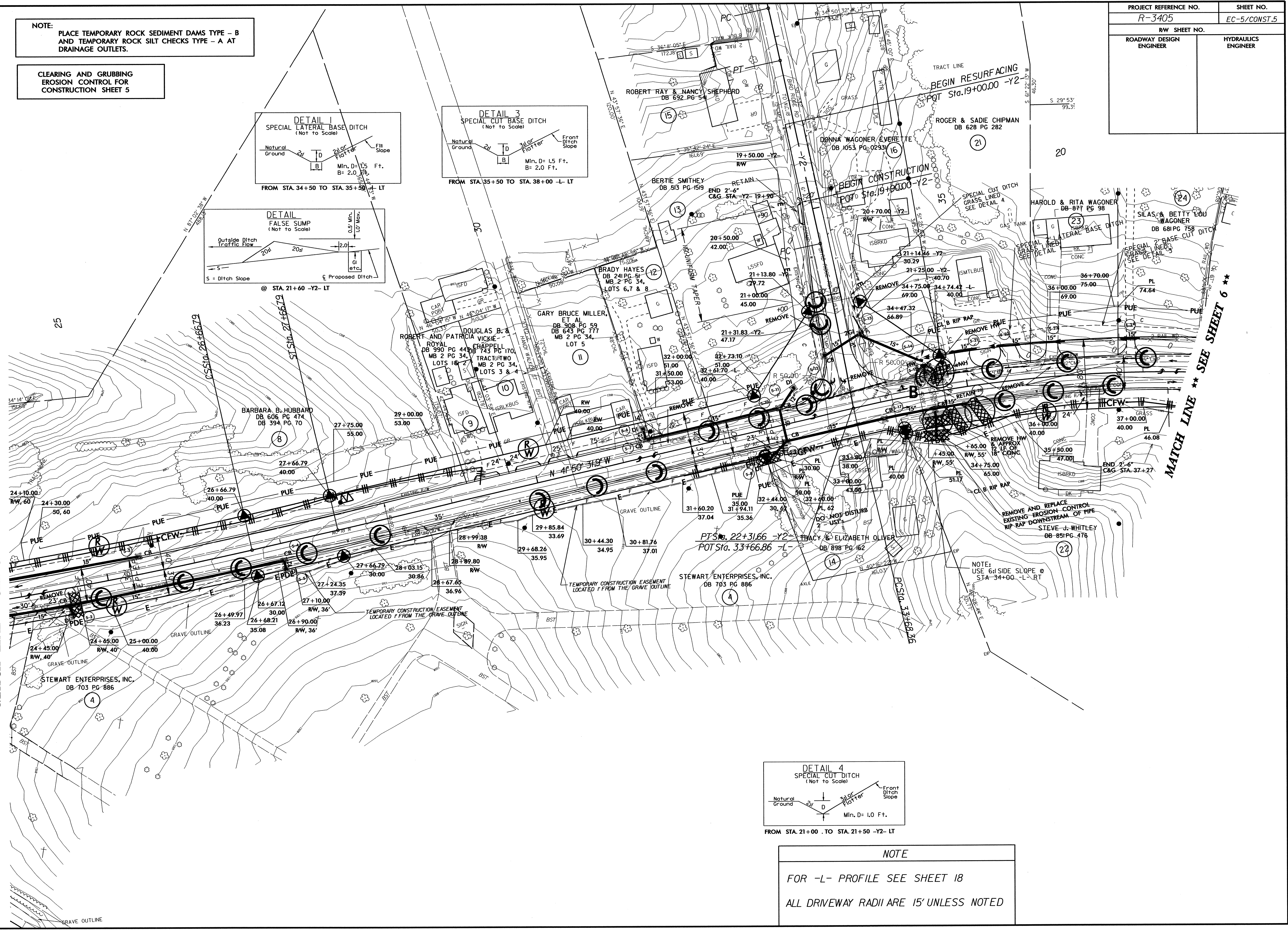
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5



NOTE  
FOR -L- PROFILE SEE SHEET 18  
ALL DRIVEWAY RADII ARE 15' UNLESS NOTED

MATCH LINE \*\* SEE SHEET 4 \*\*

MATCH LINE \*\* SEE SHEET 6 \*\*



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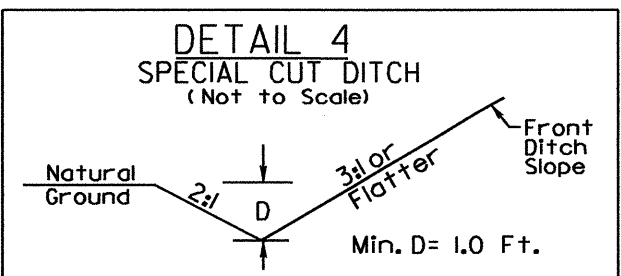
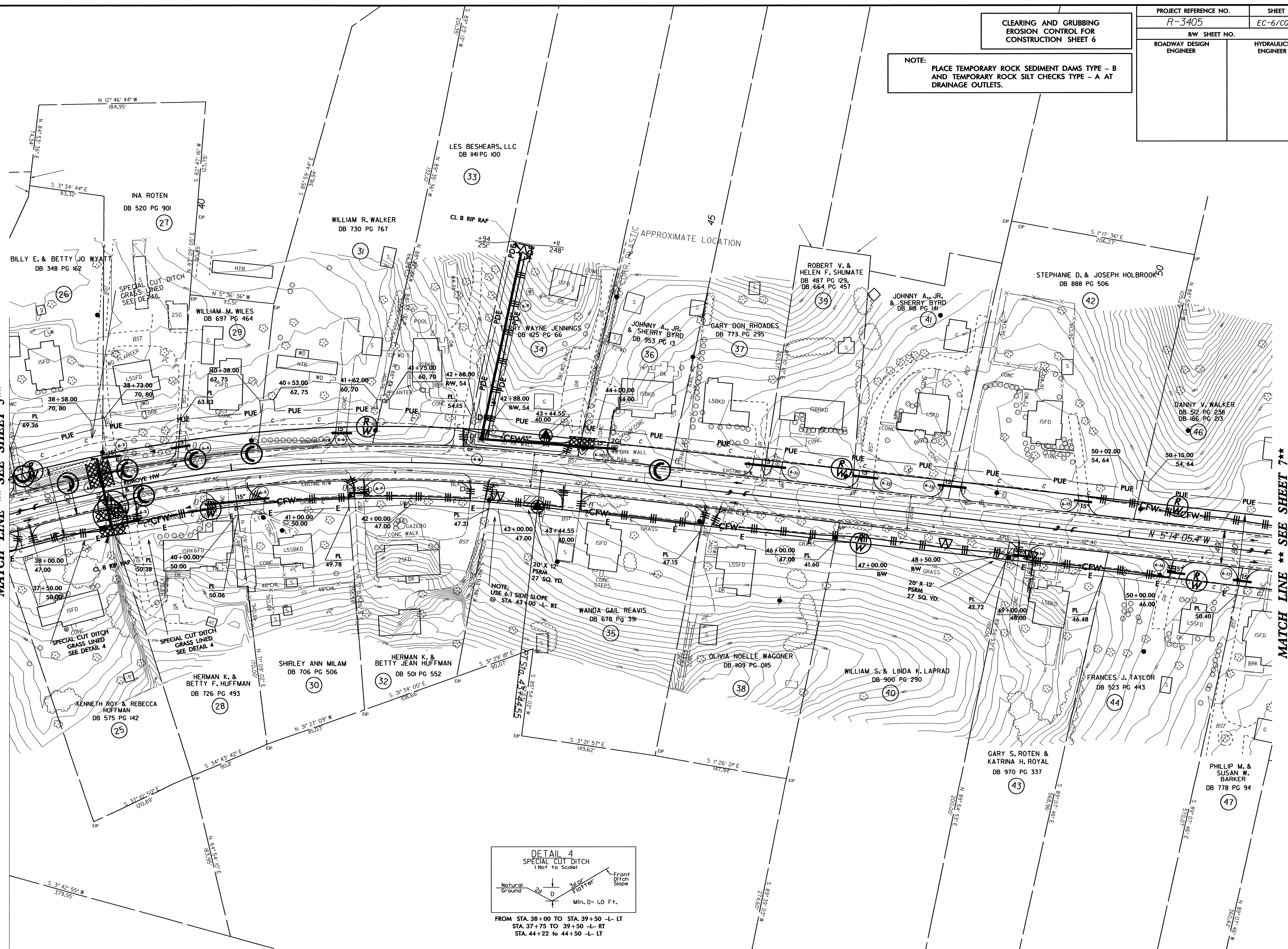
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R-3405		EC-6/CONST.6	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6**

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

MATCH LINE \*\* SEE SHEET 5\*\*

MATCH LINE \*\* SEE SHEET 7\*\*



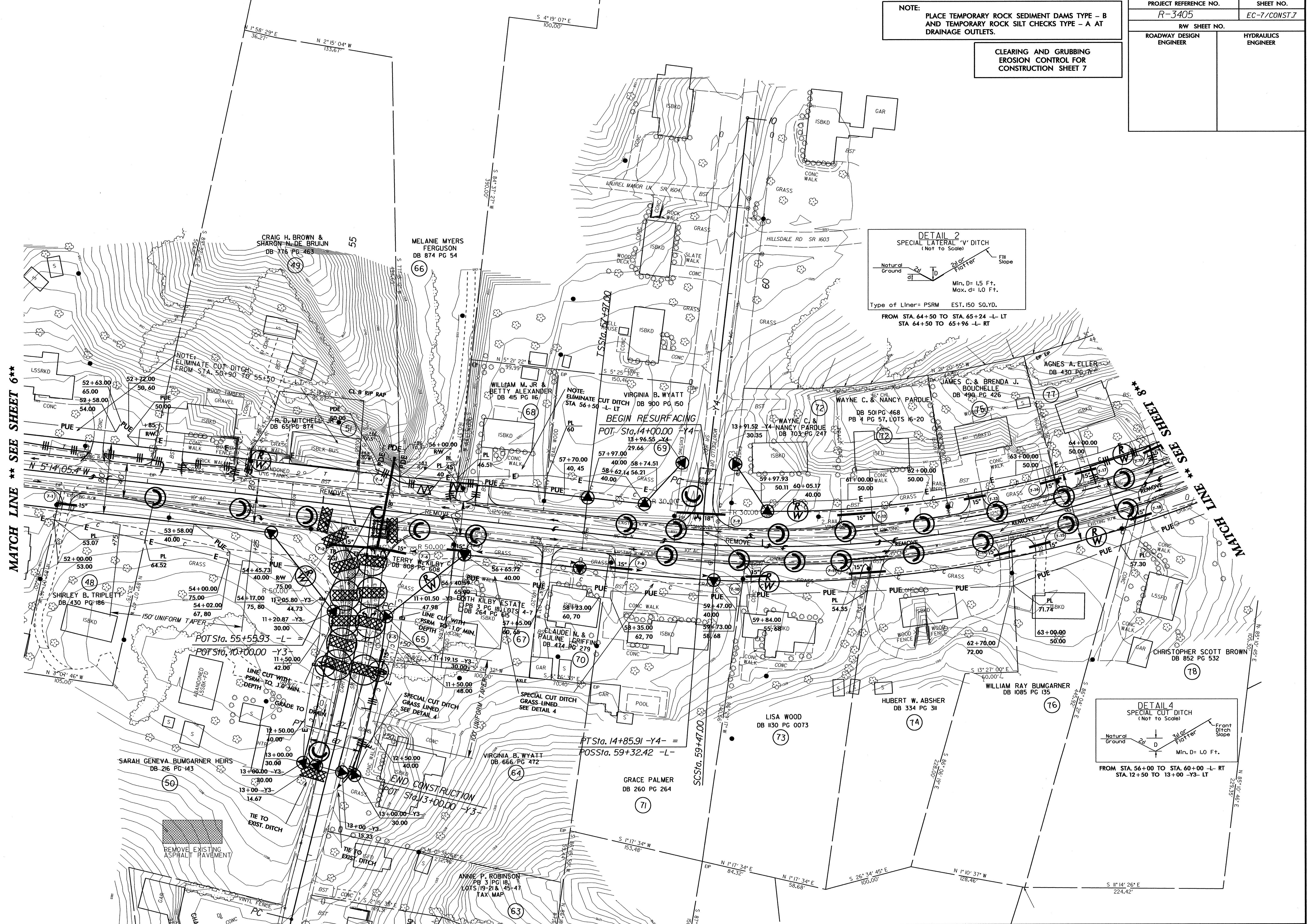
FROM STA. 38+00 TO STA. 39+50 -L- LT  
STA. 37+75 TO 39+50 -L- RT  
STA. 44+22 TO 44+50 -L- LT



PROJECT REFERENCE NO.	SHEET NO.
R-3405	EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 7

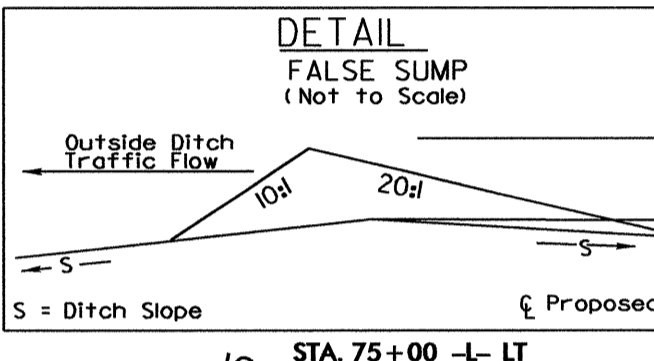
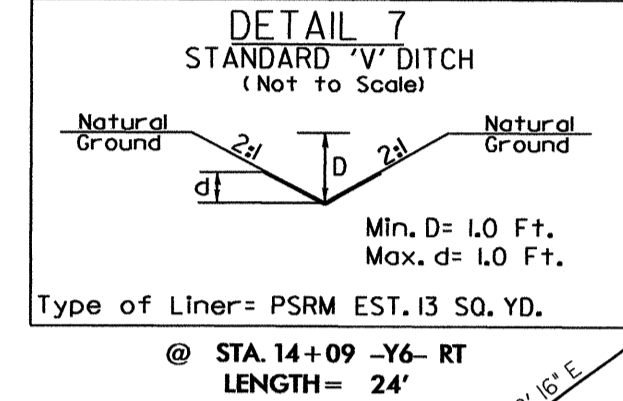
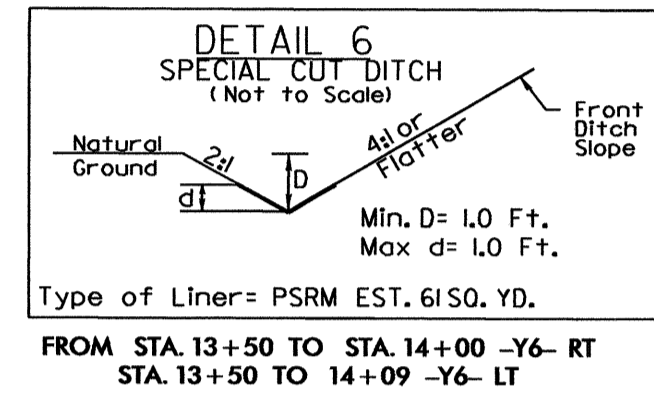
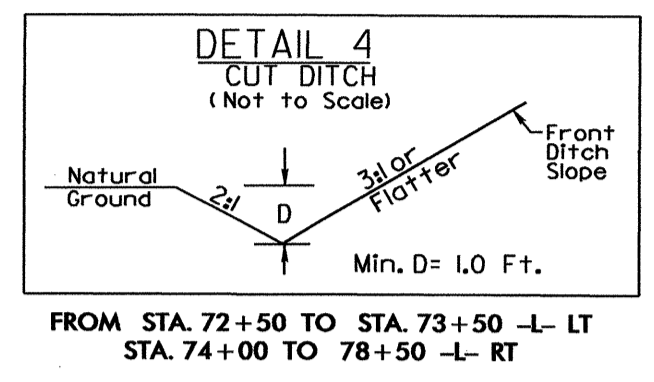
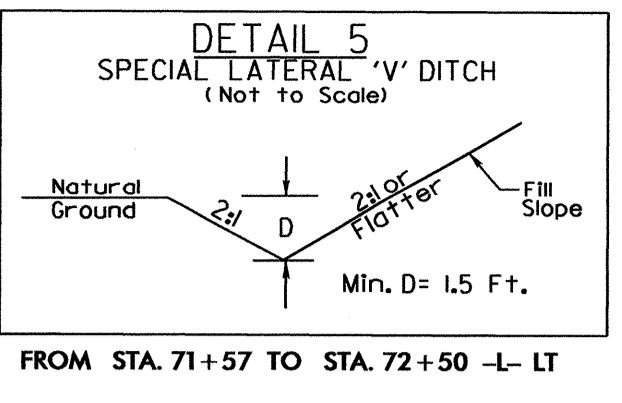




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RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

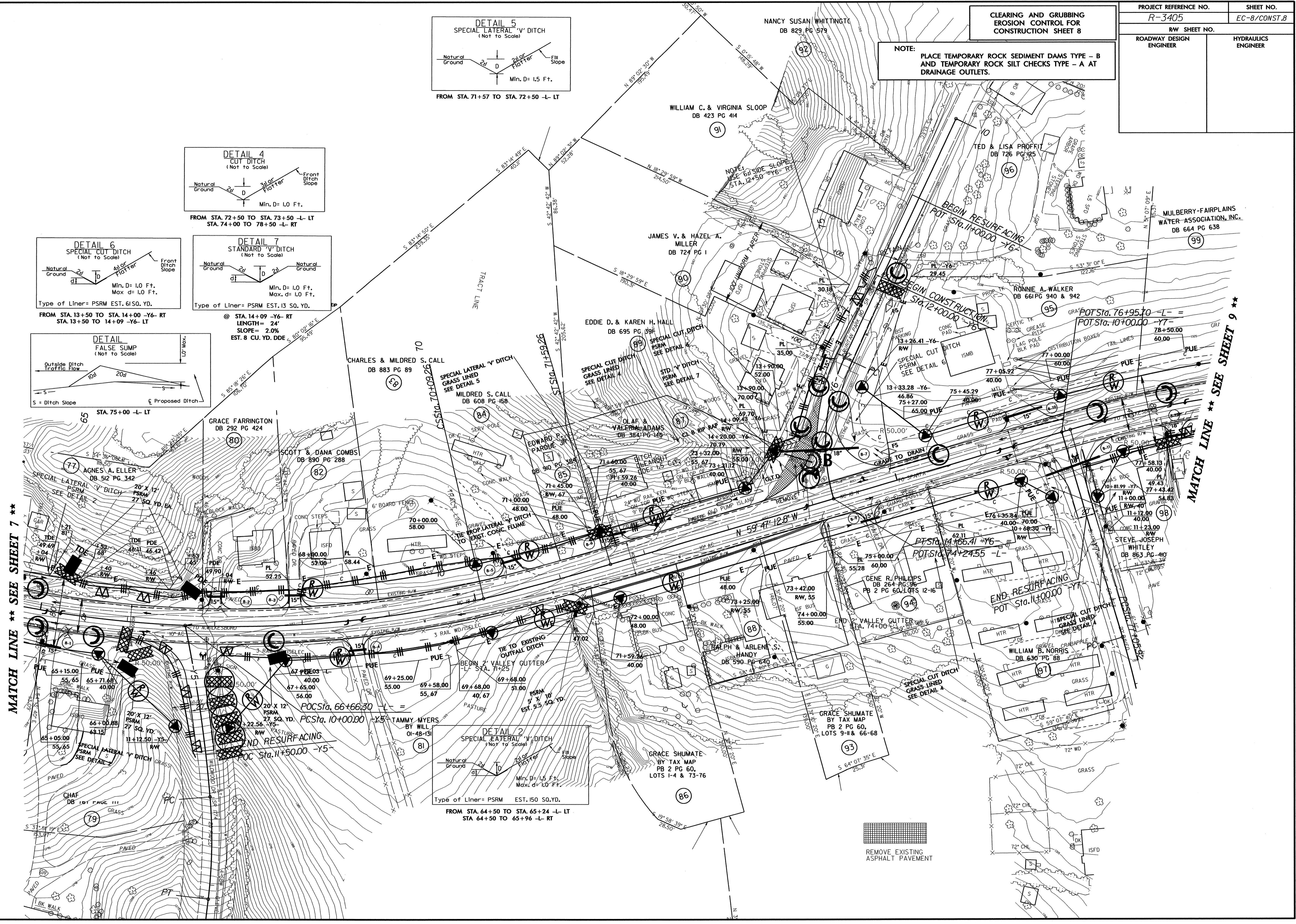
**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 8**

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



MATCH LINE \*\* SEE SHEET 7 \*\*

MATCH LINE \*\* SEE SHEET 9 \*\*

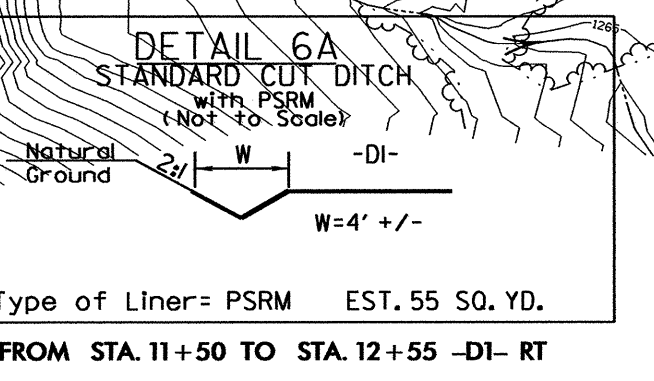
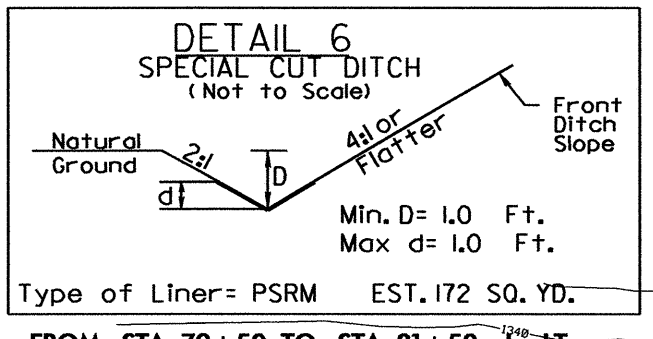
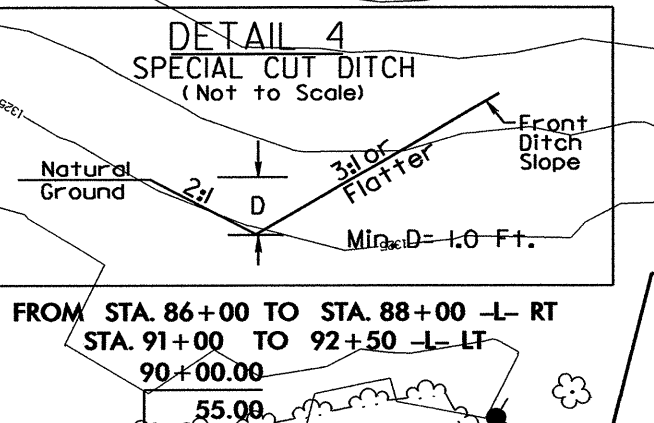
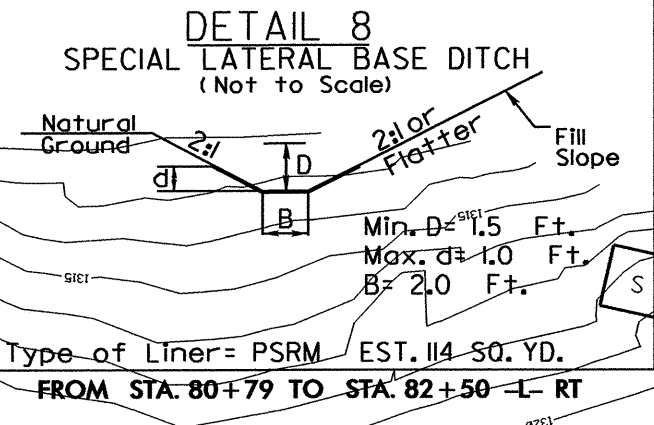
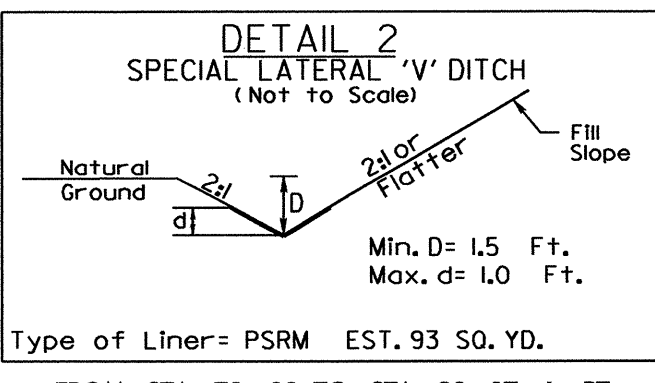
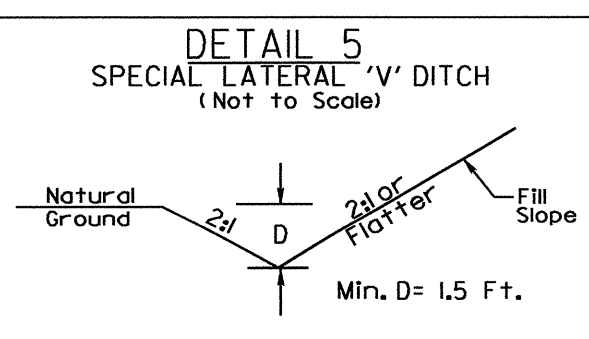




PROJECT REFERENCE NO. R-3405	SHEET NO. EC-9/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 9**

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

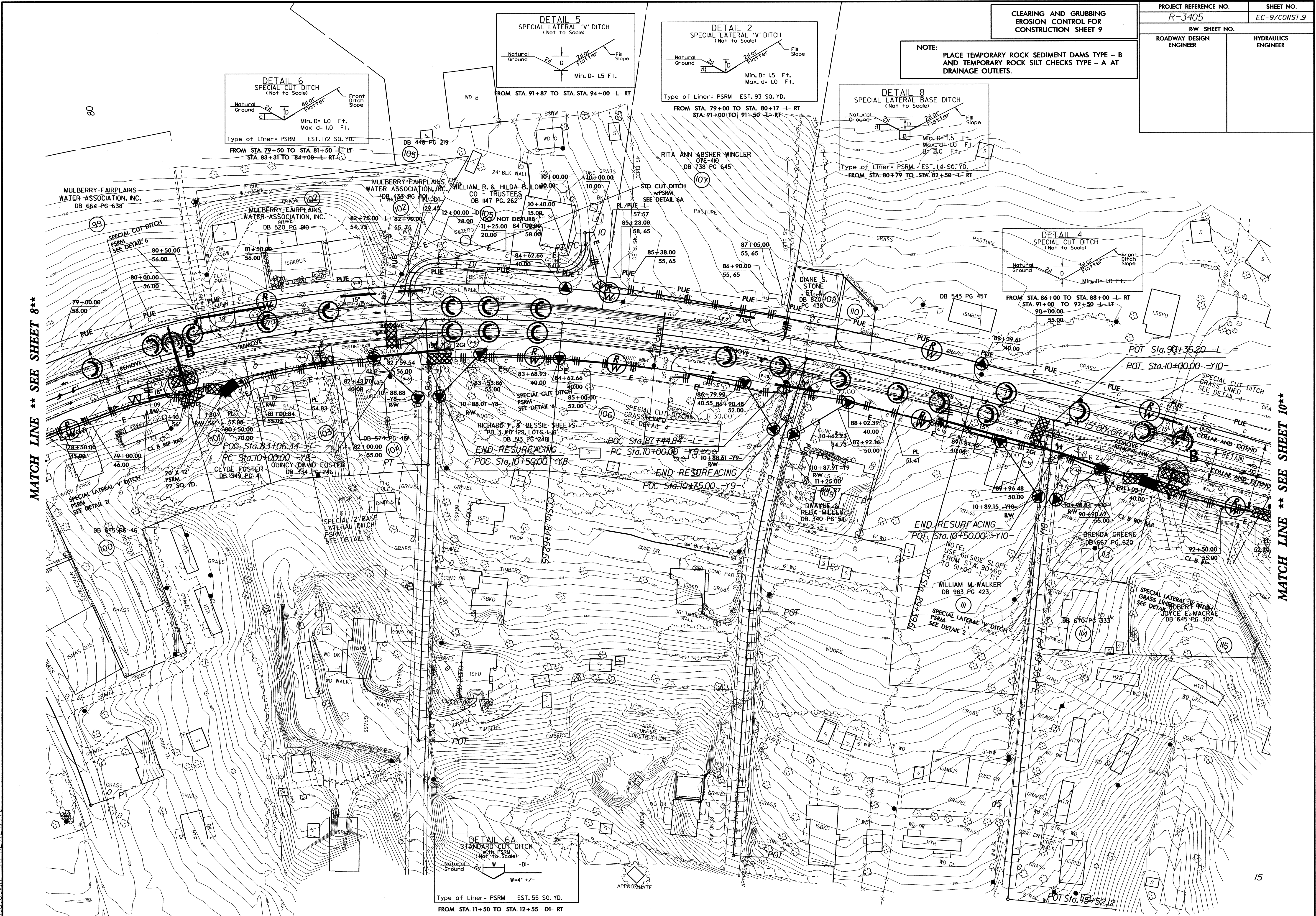


MATCH LINE \*\* SEE SHEET 8\*\*

MATCH LINE \*\* SEE SHEET 10\*\*

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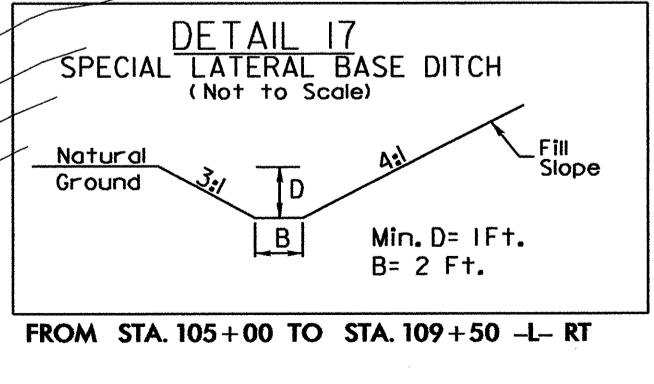
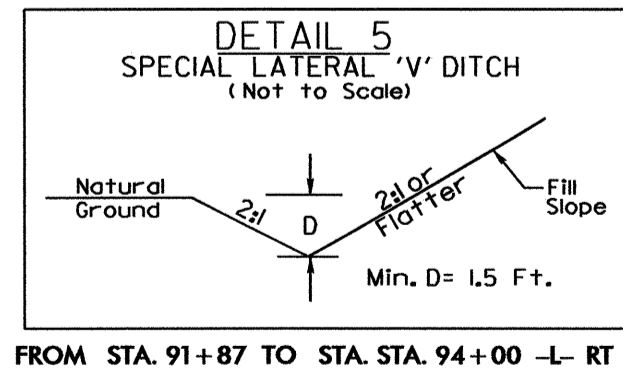
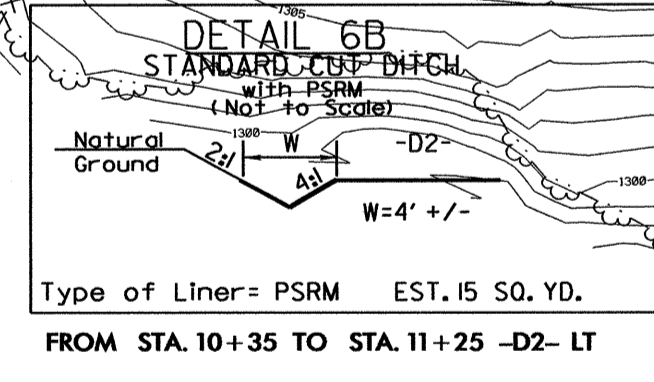
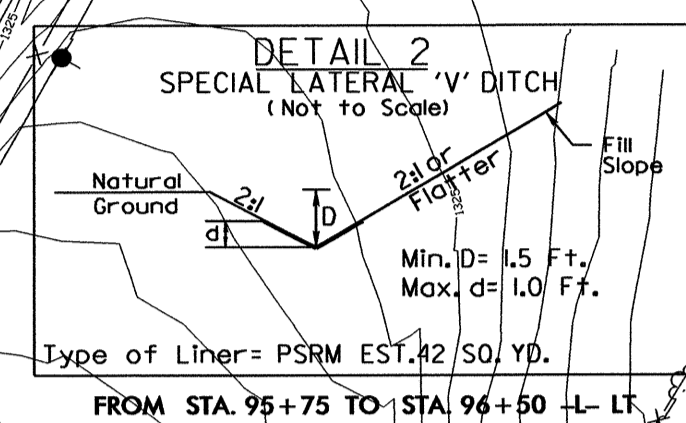
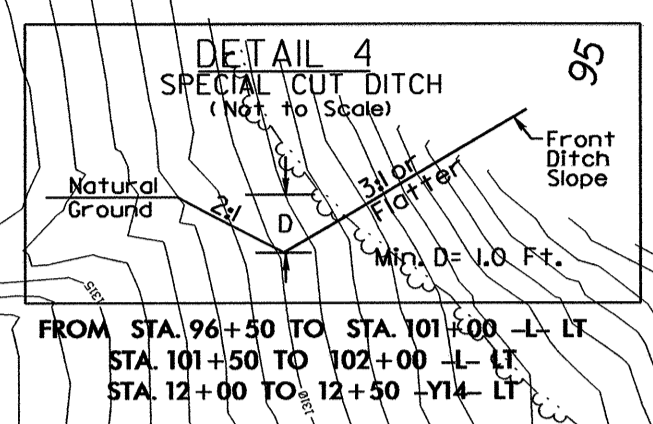
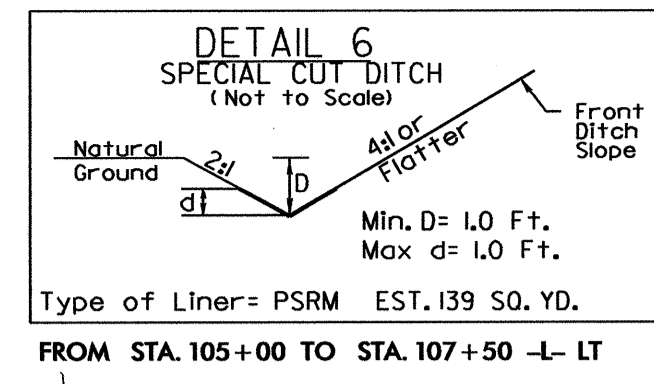




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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

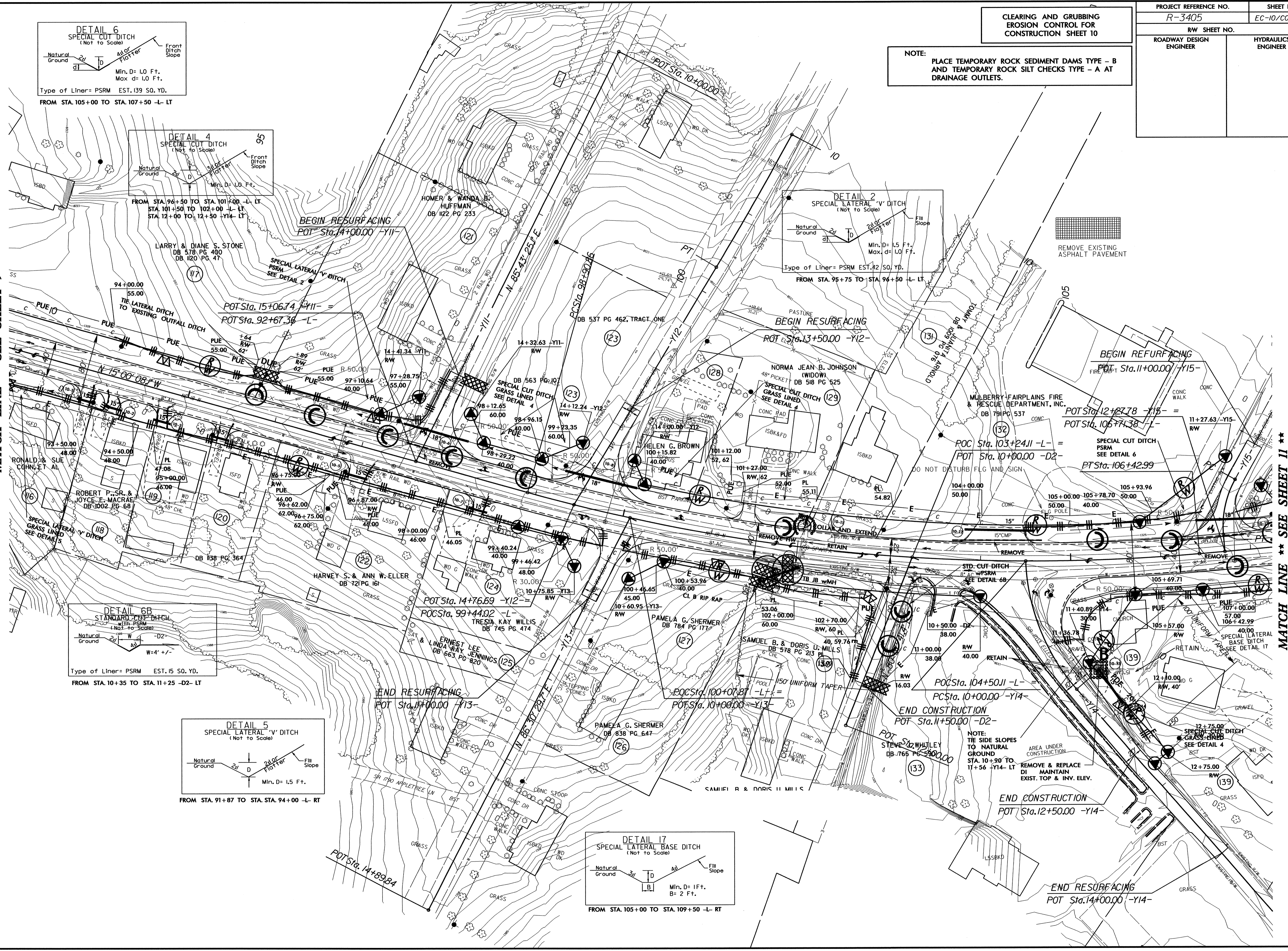
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10

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



MATCH LINE \*\* SEE SHEET 9 \*\*

MATCH LINE \*\* SEE SHEET 11 \*\*

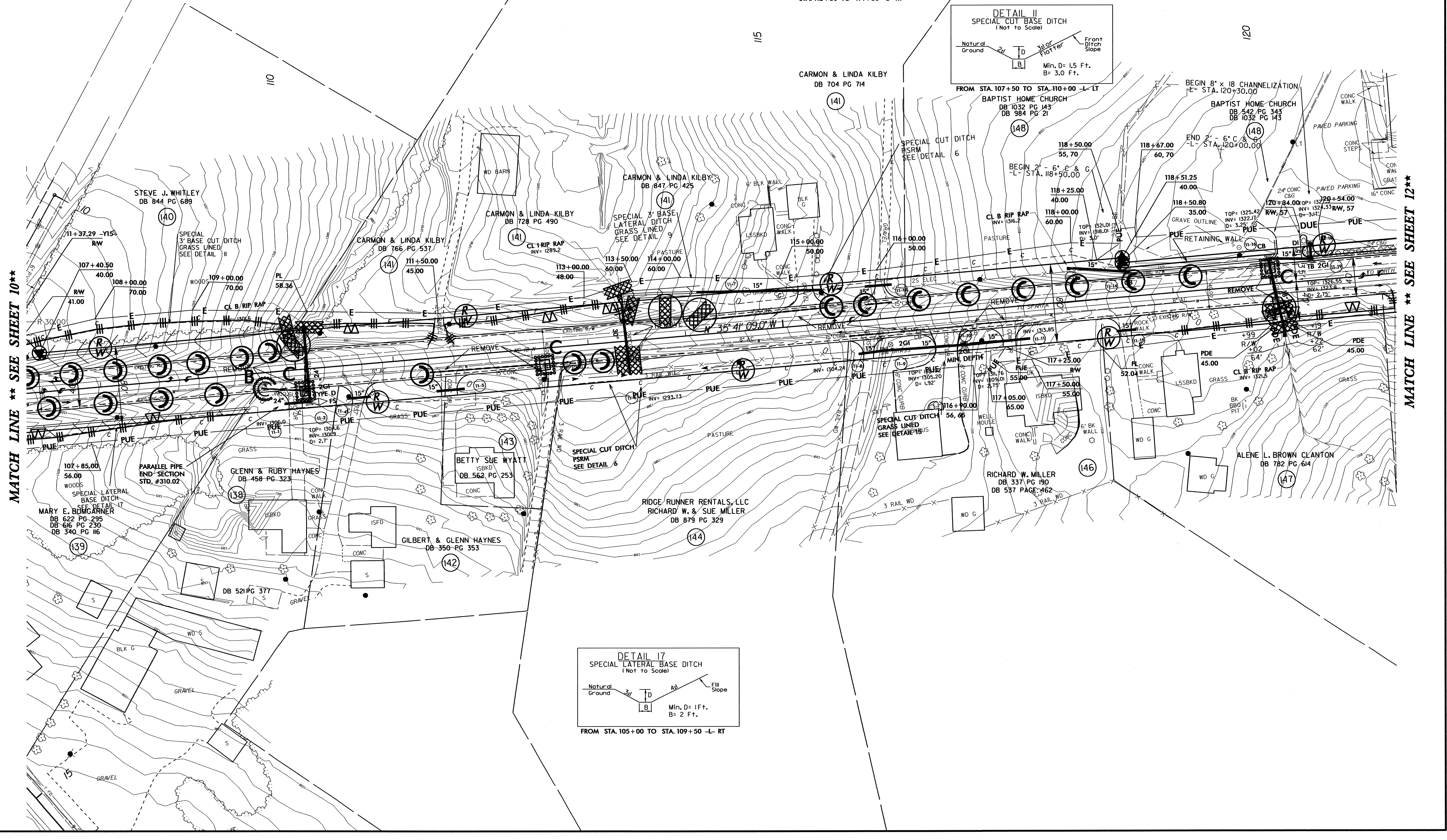
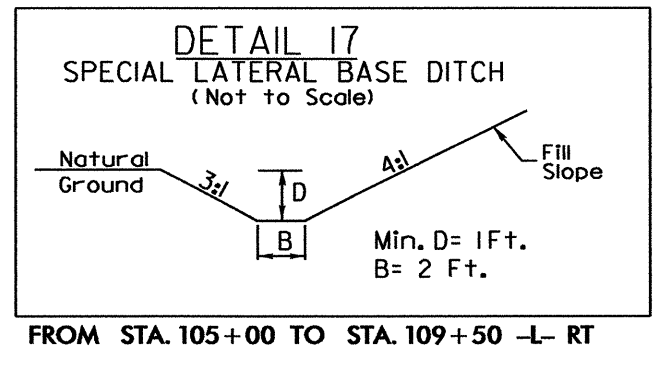
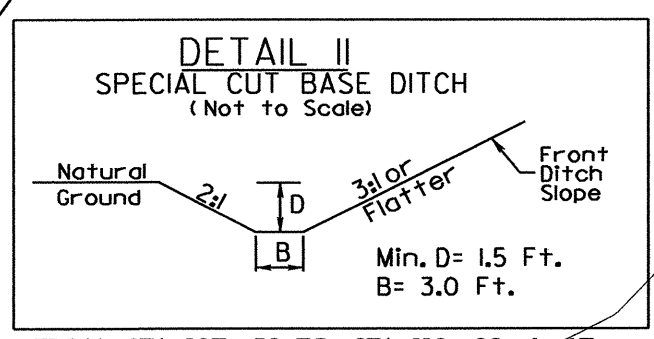
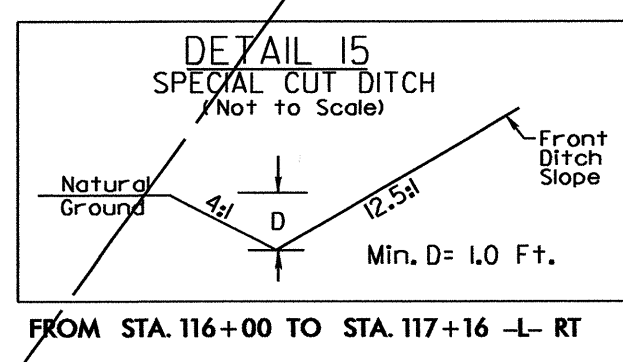
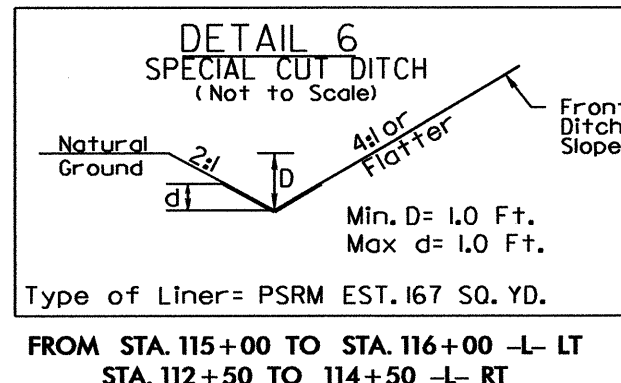
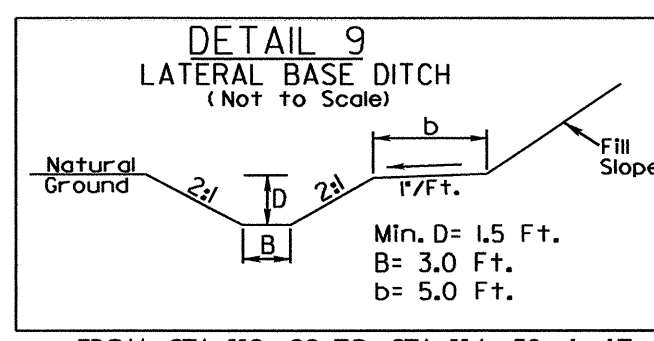




PROJECT REFERENCE NO.	SHEET NO.
R-3405	EC-11/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 11**

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



MATCH LINE \*\* SEE SHEET 10\*\*

MATCH LINE \*\* SEE SHEET 12\*\*

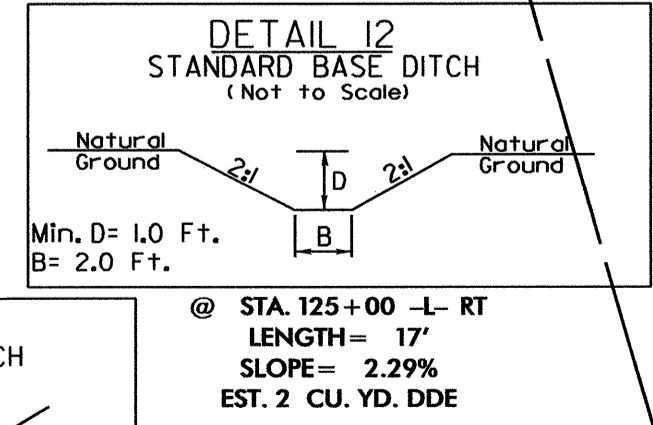
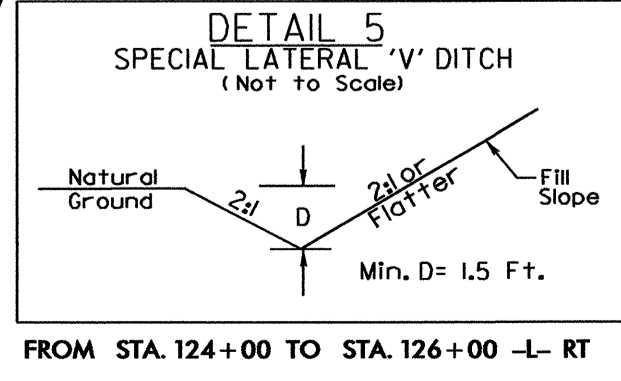
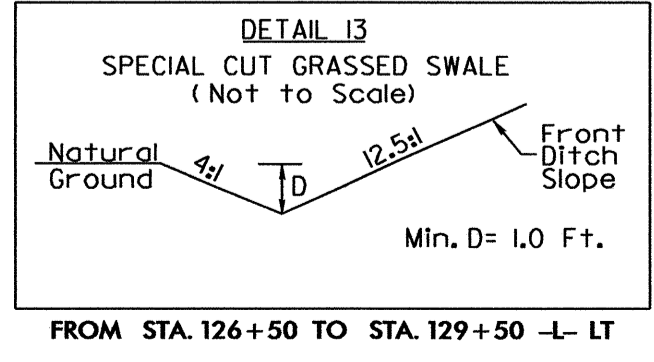
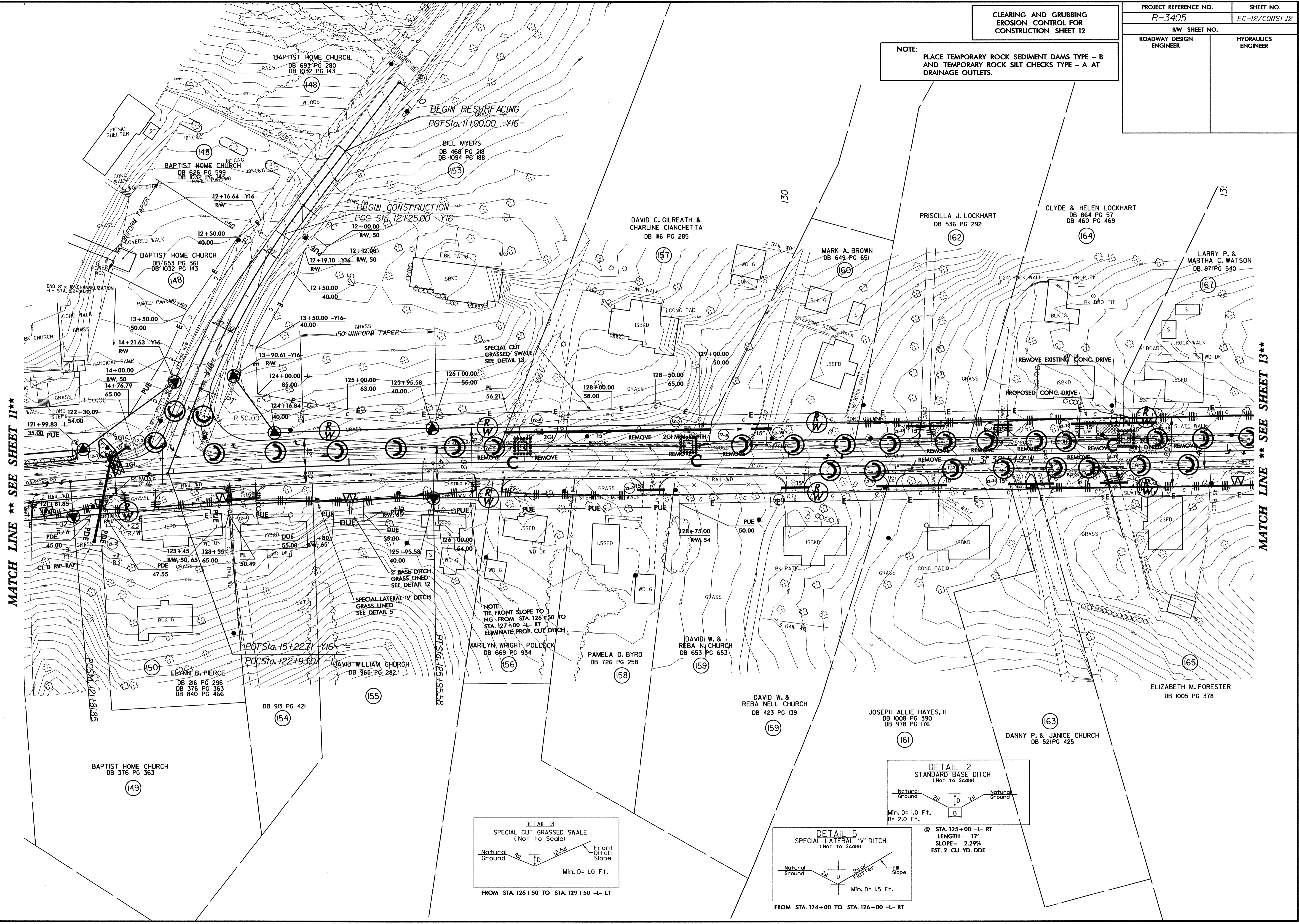


PROJECT REFERENCE NO. R-3405		SHEET NO. EC-12/CONST.12	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

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

MATCH LINE \*\* SEE SHEET 11 \*\*

MATCH LINE \*\* SEE SHEET 13 \*\*





LARRY P. & MARTHA C. WATSON  
DB 871 PG 540

167

JAMES D. & GAYLE D. BROWN  
DB 871 PAGE 105

168

RAY M. BLEVINS  
DB 361 PG 113

170

MRS. STACY H. JONES GLASS  
DB 134 PG 60  
DEED NOT PLOTTABLE; TAX RECORDS  
LIST ACREAGE AS 126.3

171

MATCH LINE \*\* SEE SHEET 12\*\*

165

ELIZABETH M. FORESTER  
DB 1005 PG 378

JAMES J. MARTIN  
DB 701 PG 535

(DEAN A. DILLARD)  
REBA DILLARD  
DB 339 PG 637

TIMOTHY M. ALMOND  
DB 761 PG 63

173

H. CLIFTON BYRD HEIRS  
DB 190 PG 212  
DB 190 PG 573-574  
DB 260 PG 633  
(UNABLE TO SHOW ENTIRE TRACT; TAX  
OFFICE LISTS AREA AS 31.47 ACRES)

174

ROBERT C. & JOYCE P. MILLER  
DB 814 PG 50

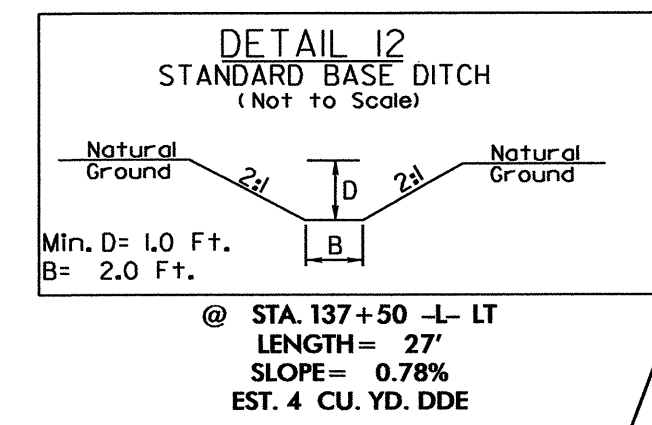
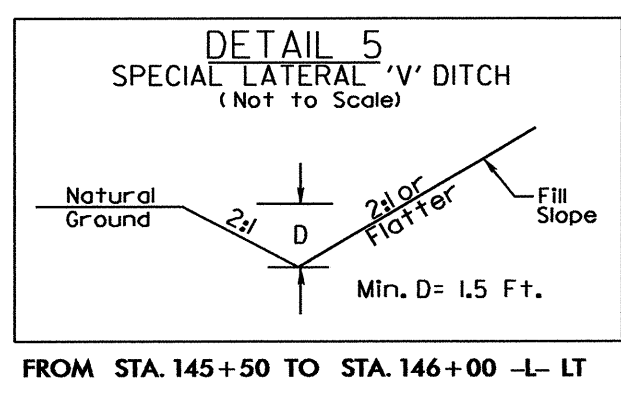
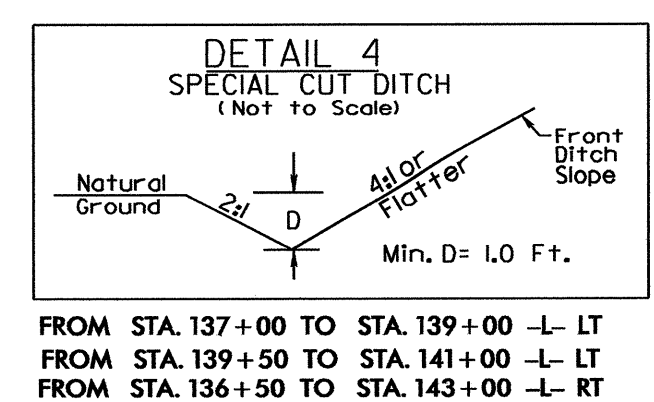
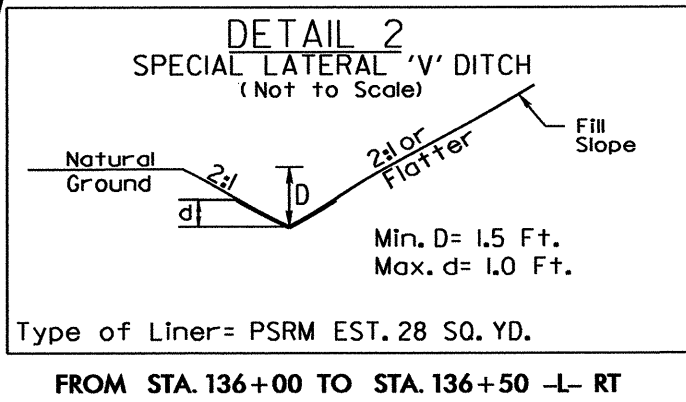
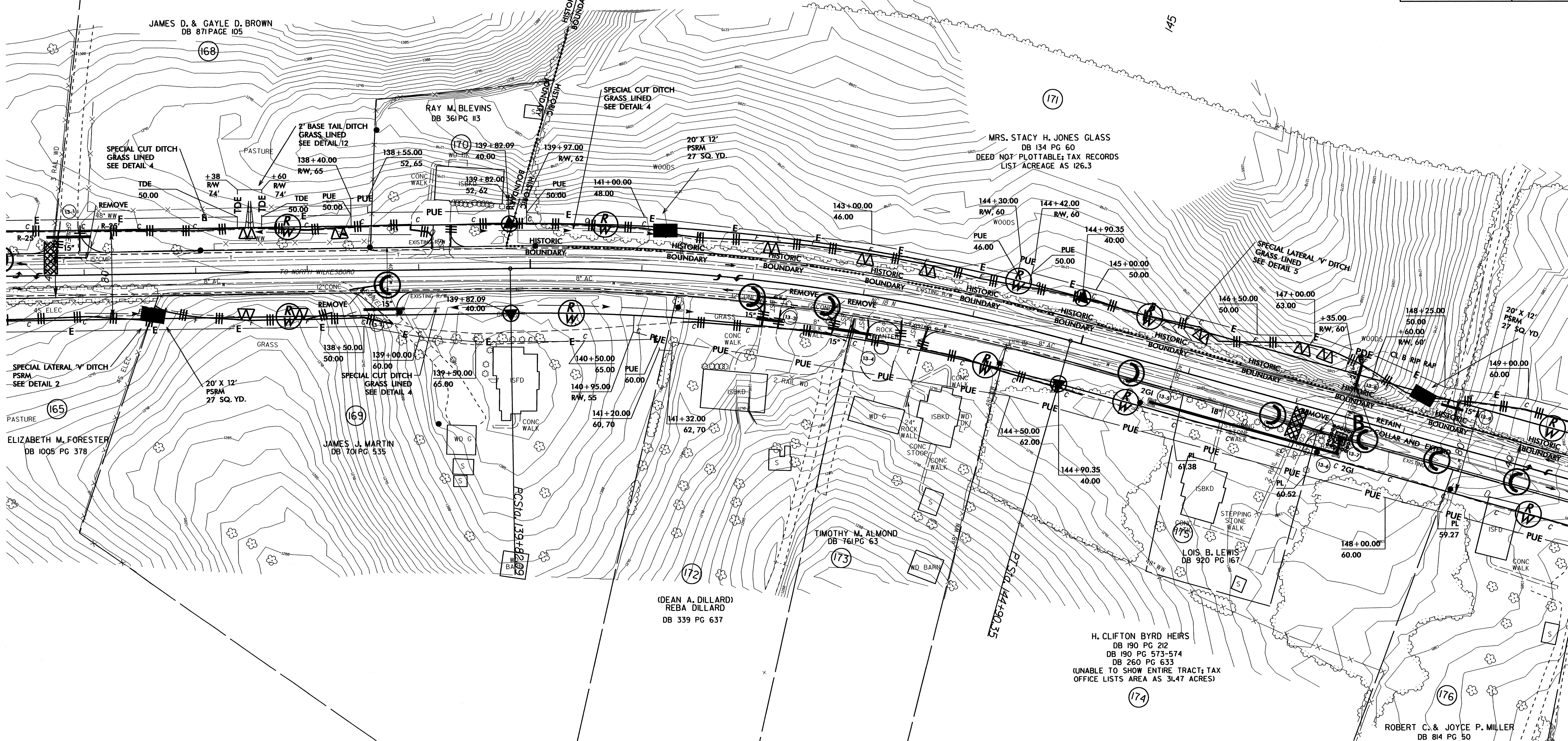
176

MATCH LINE \*\* SEE SHEET 14\*\*

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13

PROJECT REFERENCE NO. R-3405	SHEET NO. EC-13/CONST.13
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

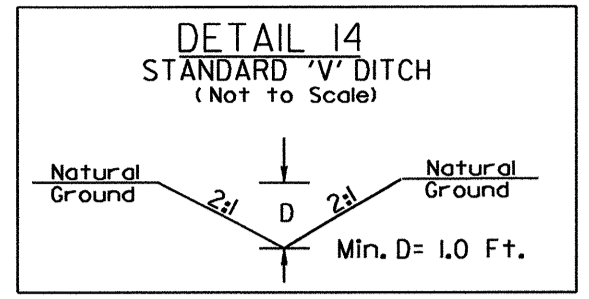




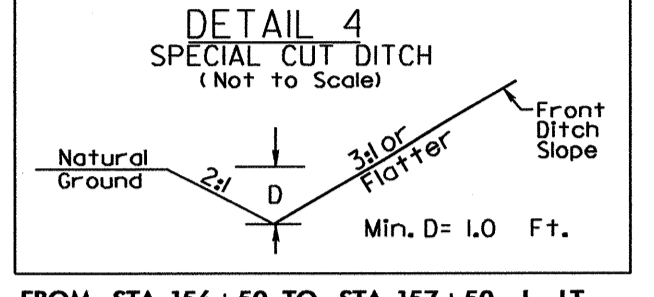
PROJECT REFERENCE NO.		SHEET NO.	
R-3405		EC-14/CONST.14	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 14**

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



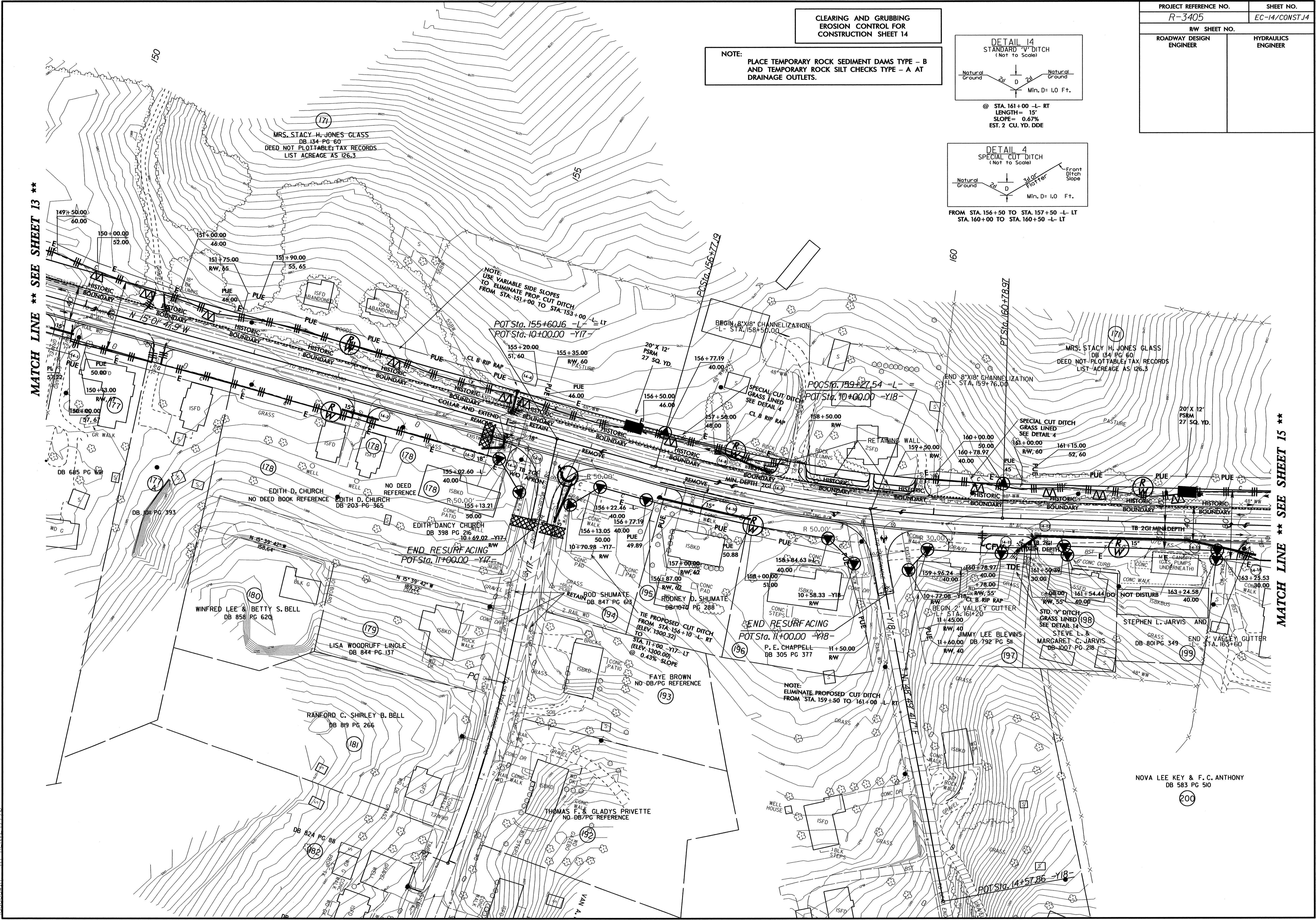
@ STA. 161+00 -L- RT  
LENGTH = 15'  
SLOPE = 0.67%  
EST. 2 CU. YD. DDE



FROM STA. 156+50 TO STA. 157+50 -L- LT  
STA. 160+00 TO STA. 160+50 -L- LT

MATCH LINE \*\* SEE SHEET 13 \*\*

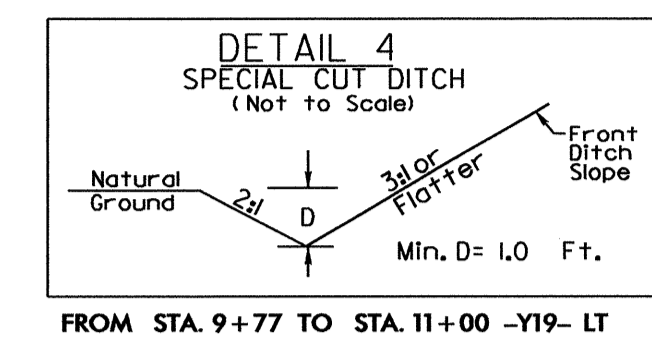
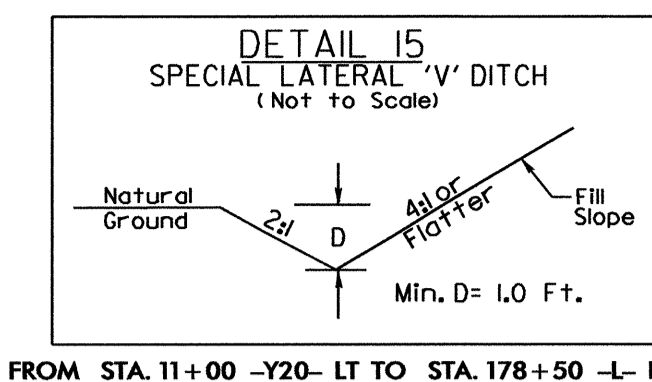
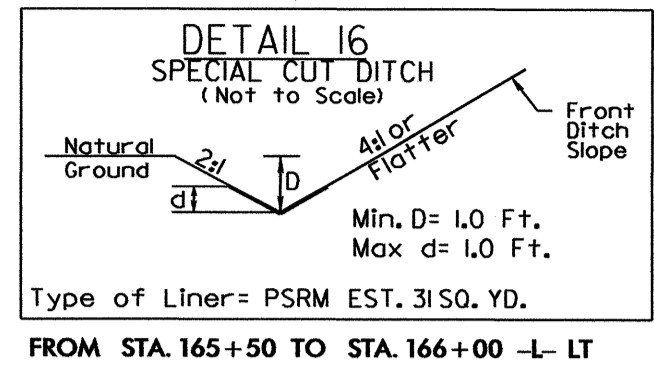
MATCH LINE \*\* SEE SHEET 15 \*\*





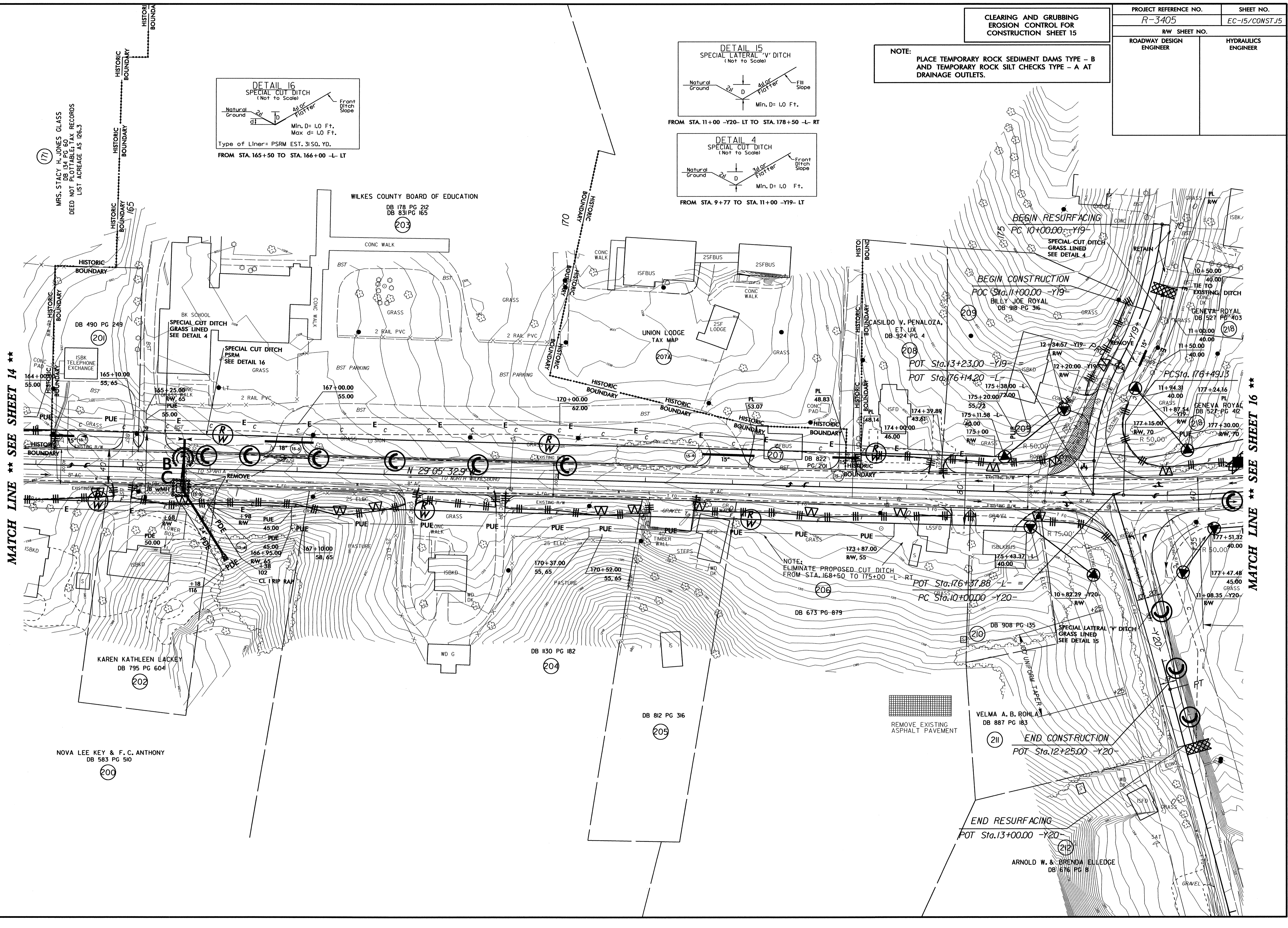
PROJECT REFERENCE NO. R-3405	SHEET NO. EC-15/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



MATCH LINE \*\* SEE SHEET 14 \*\*

MATCH LINE \*\* SEE SHEET 16 \*\*



NOTE:  
ELIMINATE PROPOSED CUT DITCH  
FROM STA. 168+50 TO 175+00 -L- RT

REMOVE EXISTING  
ASPHALT PAVEMENT

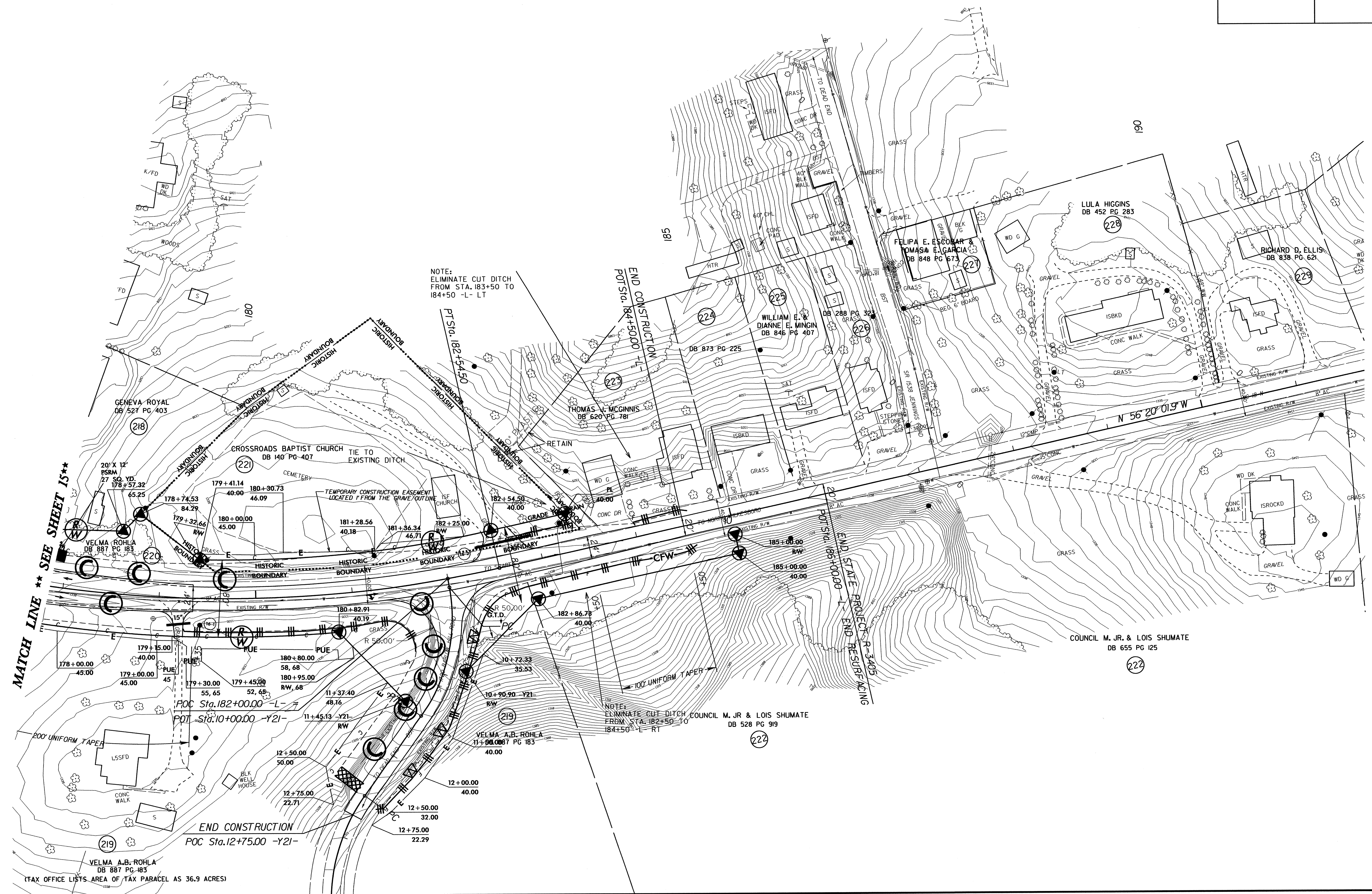


8/17/99

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 16

PROJECT REFERENCE NO. R-3405	SHEET NO. EC-16/CONST 16
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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



7/1 MAY 2012 14:58  
R:\New\Projects\3405\EC-16\sh16.dgn  
16/05/2012 10:11:10  
LACRODWIN



PROJECT REFERENCE NO. R-3405		SHEET NO. EC-17/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

Place Matting for Erosion Control on Slope as Work Allows.

BEGIN TIP PROJECT R-3405  
BEGIN CONST. P.C. STA. 10+00.00 -L-

RETAIN ALL DRAINAGE PRIOR TO C&G STA. 10+00.00

10+00.00  
60' RW  
10+30.00  
50.00  
11+50.00  
46.00  
12+00.00  
58.00

RETAIN CONC  
6" C&G  
BEGIN 2'-4" C&G STA. 10+50

11+75.00  
RW  
12+00.00  
50.00  
13+38.89  
45.84

ISBLK BUS  
F & S INVESTMENTS  
DB 674 PG 923

R. M. BRAME, III, ET AL  
DB 598 PG 169

R. M. BRAME, III, ET AL  
DB 598 PG 169

WILFORD CHURCH HEIRS  
C/O KERN CHURCH  
DB 288 PG 183

VICKIE M. BROOKS  
DB 708 PG 774

VICKIE M. BROOKS  
DB 708 PG 773

LEONARD L. BROOKS  
DB 632 PG 102  
DB 709 PG 177

DORIS BROOKS BARNETTE  
DB 267 PG 625  
DB 549 PG 1346

RANDY WAYNE DOWELL  
ET, AL  
DB 879 PG 74

BARBARA B. HUBBARD  
DB 857 PG 604

DON C. HOUCK  
DB 658 PG 700

GENE CURTIS SHEPHERD SR.  
DB 795 PG 257

GENE C. SHEPHERD JR.  
DB 657 PG 430

AUSTIN FREEMAN  
DB 123 PG 212

LONNIE HAYNES & JERRY HAYNES  
DB 1046 PG 274

STEWART ENTERPRISES, INC  
DB 703 PG 886

END CONSTRUCTION  
P.O.C. Sta. 10+85.00  
P.C. Sta. 20+83.35  
P.C. Sta. 10+60.00 -Y1-

END CONSTRUCTION  
P.O.C. Sta. 12+50.00 -Y1-

REMOVE EXISTING ASPHALT PAVEMENT

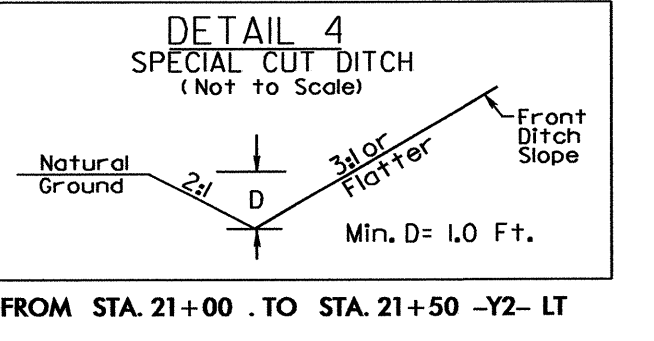
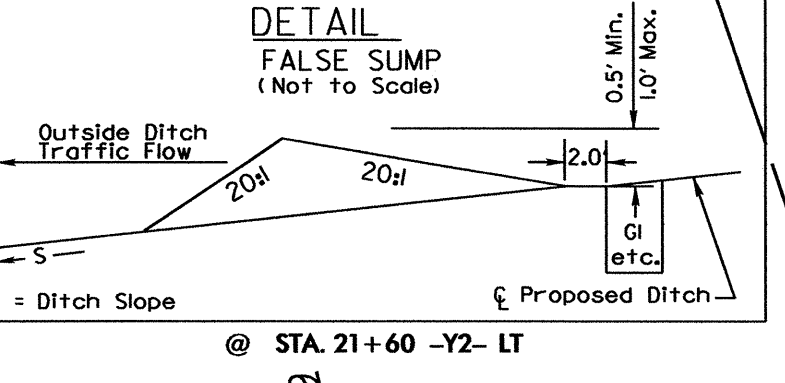
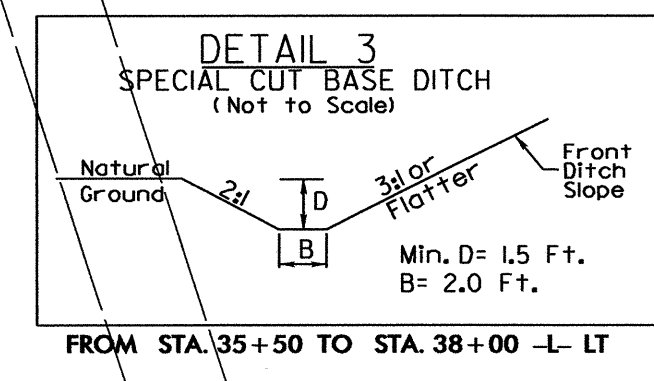
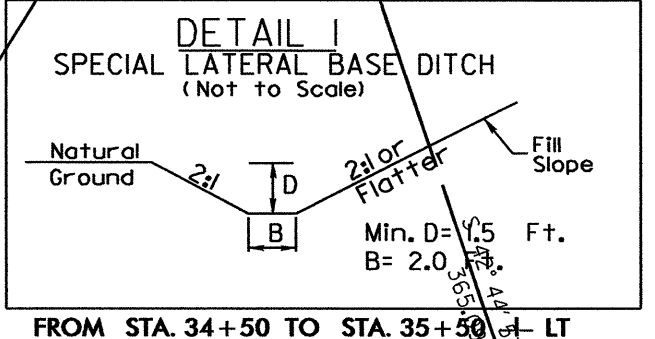
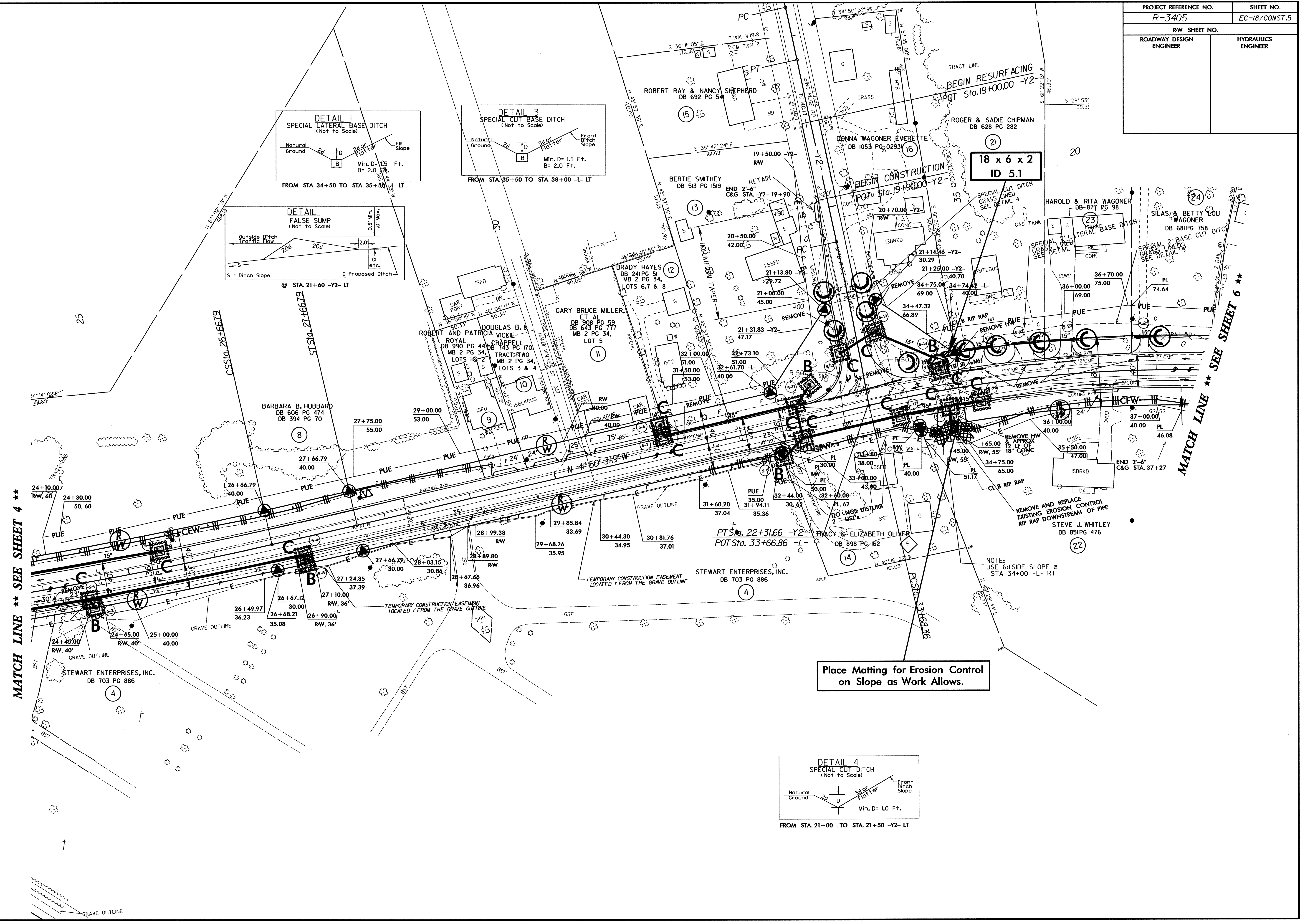
MATCH LINE \*\* SEE SHEET 5 \*\*

8/17/99  
31-MAY-2012 14:02  
R:\Projects\3405\Design\3405\EC-17\3405-EC\_psh04.dgn  
RENW27770



PROJECT REFERENCE NO. R-3405	SHEET NO. EC-18/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99  
 01-JUN-2012 07:28  
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 R:\Environmental\3405\3405-EC-ps05.dgn  
 R:\Environmental\3405\3405-EC-ps05.dgn



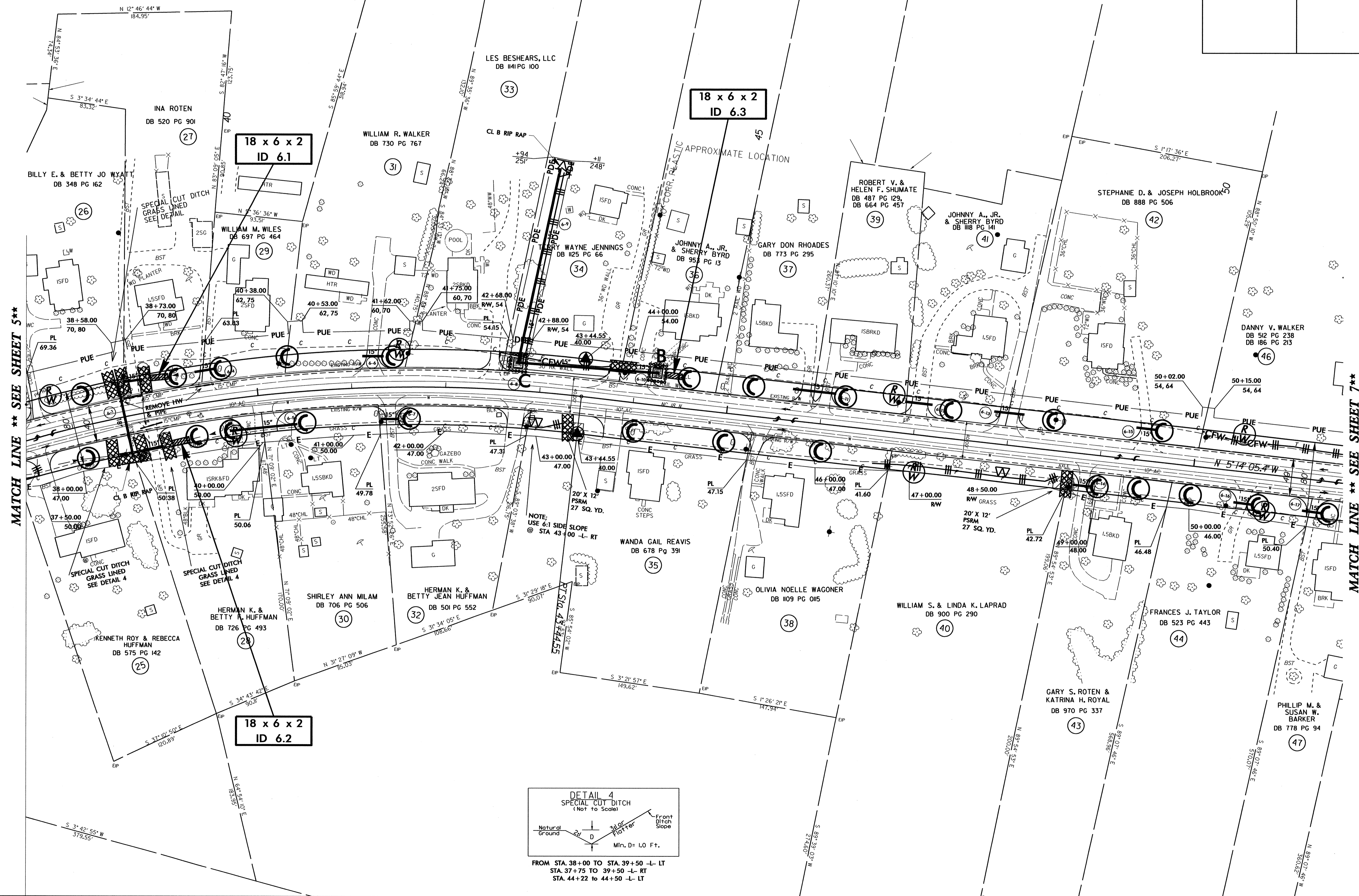
Place Matting for Erosion Control on Slope as Work Allows.

MATCH LINE \*\* SEE SHEET 4 \*\*

MATCH LINE \*\* SEE SHEET 6 \*\*



PROJECT REFERENCE NO.	SHEET NO.
R-3405	EC-19/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



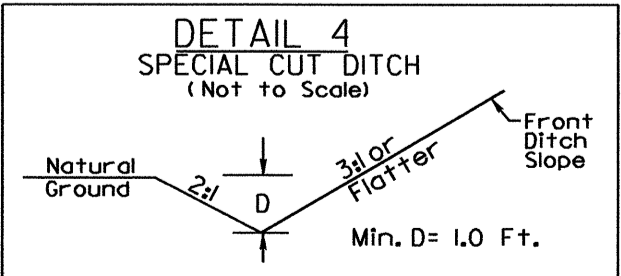
MATCH LINE \*\* SEE SHEET 5 \*\*

MATCH LINE \*\* SEE SHEET 7 \*\*

18 x 6 x 2  
ID 6.1

18 x 6 x 2  
ID 6.3

18 x 6 x 2  
ID 6.2



FROM STA. 38+00 TO STA. 39+50 -L- LT  
 STA. 37+75 TO 39+50 -L- RT  
 STA. 44+22 TO 44+50 -L- LT

8/17/99  
 31-MAY-2012 14:09  
 R:\Environmental\Design\R-3405\N-R-3405\_EC\_psh06.dgn  
 AutoCAD LT 2012

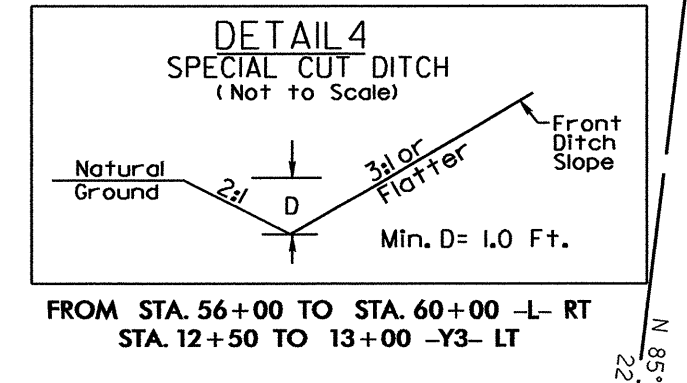
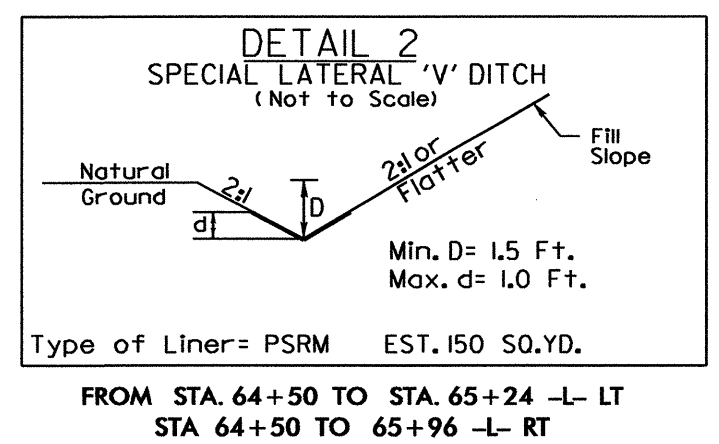


PROJECT REFERENCE NO. R-3405		SHEET NO. EC-20/CONST.7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCH LINE \*\* SEE SHEET 6\*\*

MATCH LINE \*\* SEE SHEET 8\*\*



**18 x 6 x 2**  
**ID 7.2**

REMOVE EXISTING ASPHALT PAVEMENT

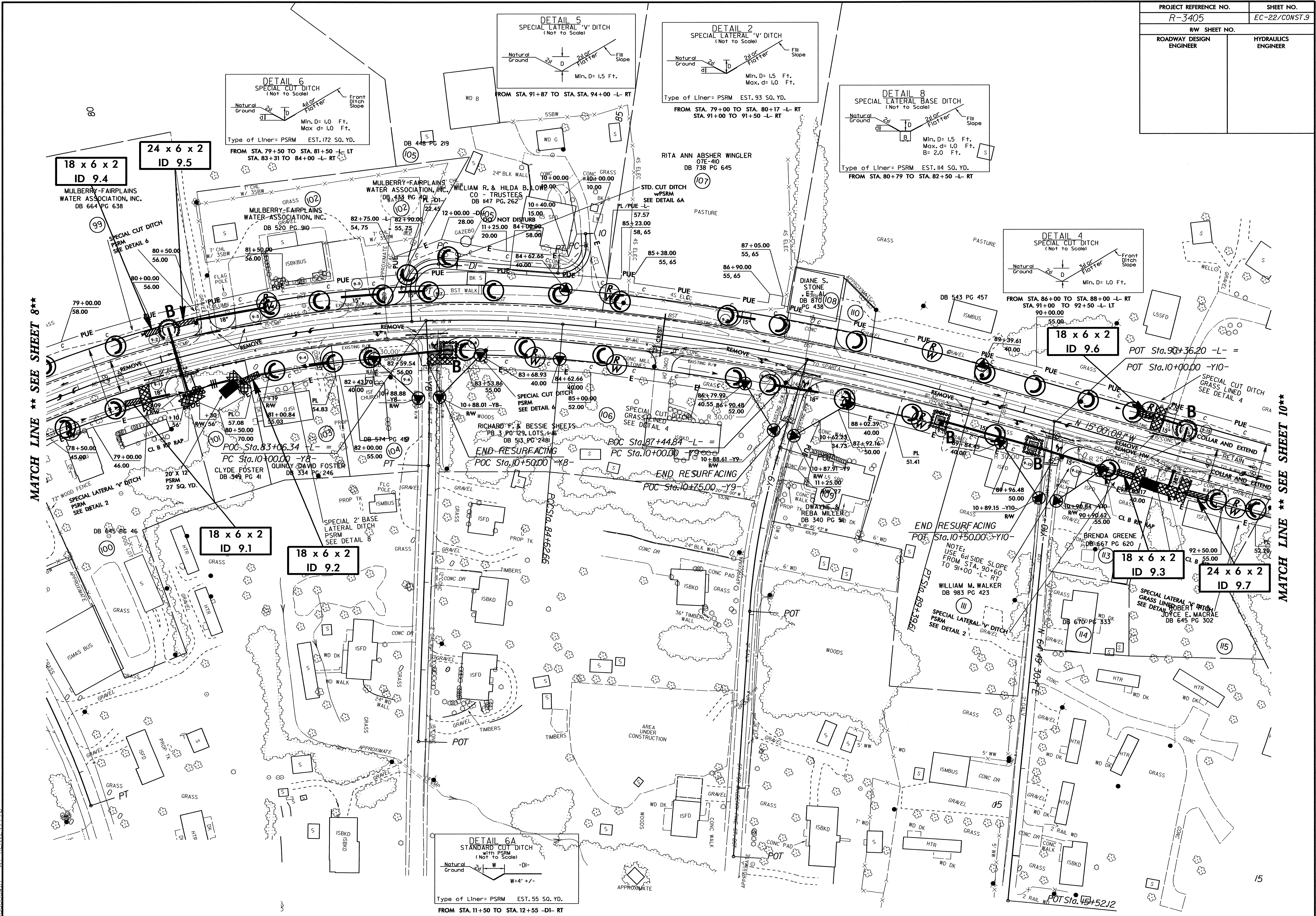
8/17/99  
3-MAY-2012 14:11  
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15:00:00  
15:00:00







PROJECT REFERENCE NO. R-3405		SHEET NO. EC-22/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCH LINE \*\* SEE SHEET 8\*\*

MATCH LINE \*\* SEE SHEET 10\*\*

**18 x 6 x 2  
ID 9.4**  
MULBERRY-FAIRPLAINS  
WATER ASSOCIATION, INC.  
DB 664 PG 638

**24 x 6 x 2  
ID 9.5**

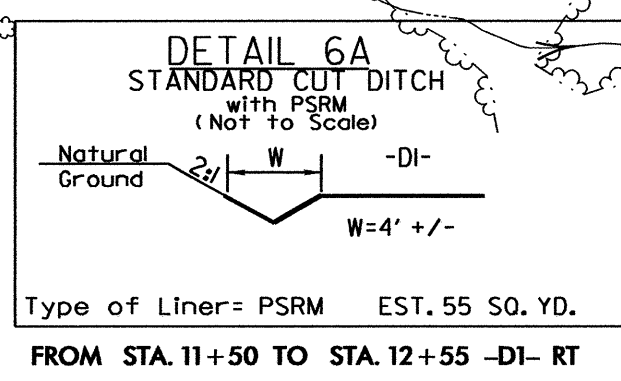
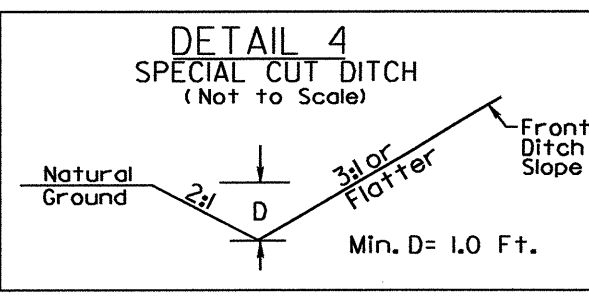
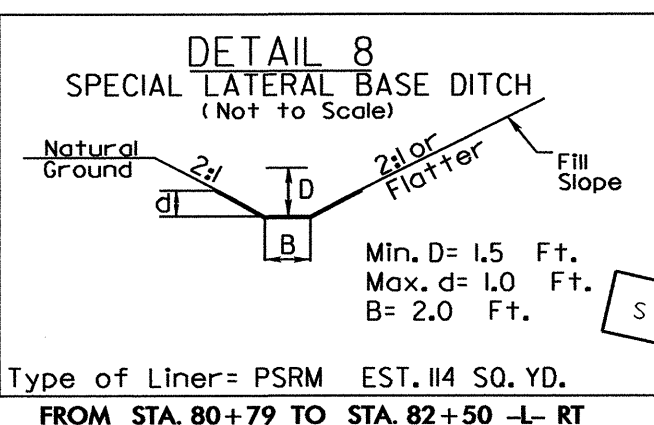
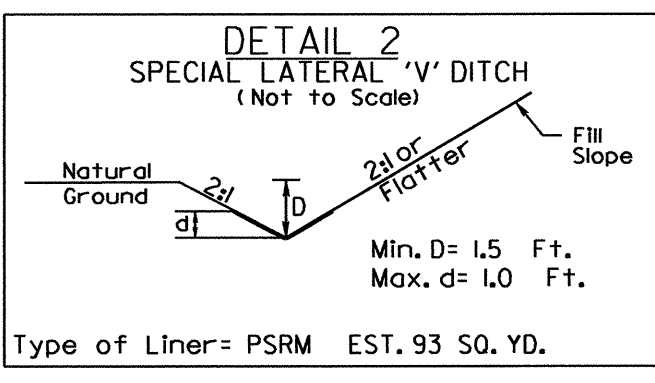
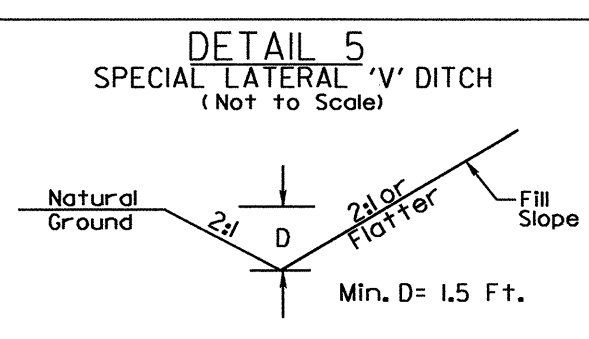
**18 x 6 x 2  
ID 9.1**

**18 x 6 x 2  
ID 9.2**

**18 x 6 x 2  
ID 9.6**

**18 x 6 x 2  
ID 9.3**

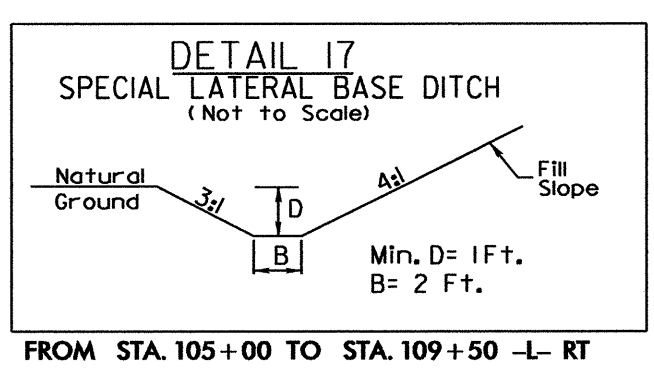
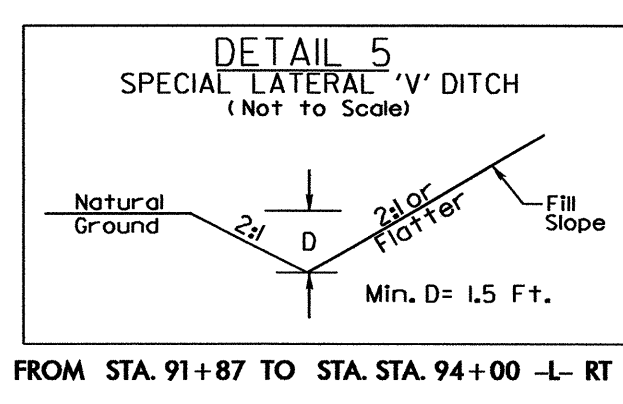
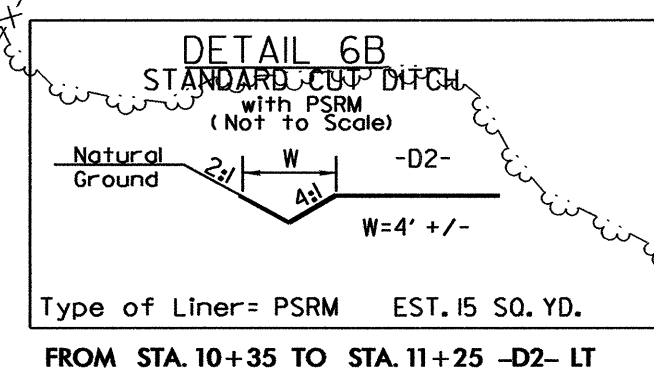
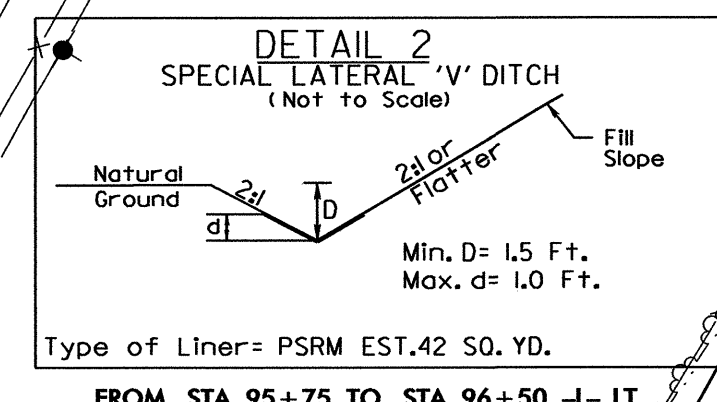
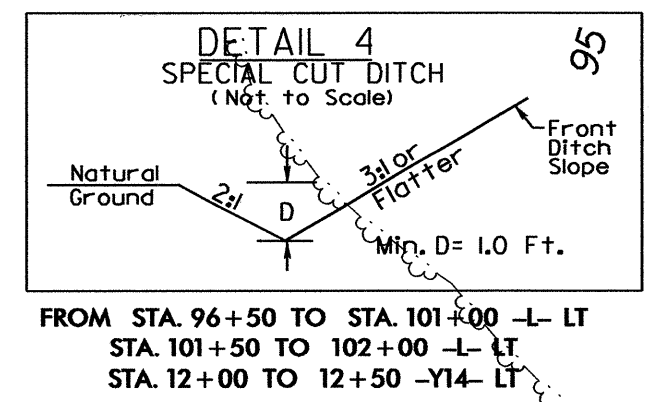
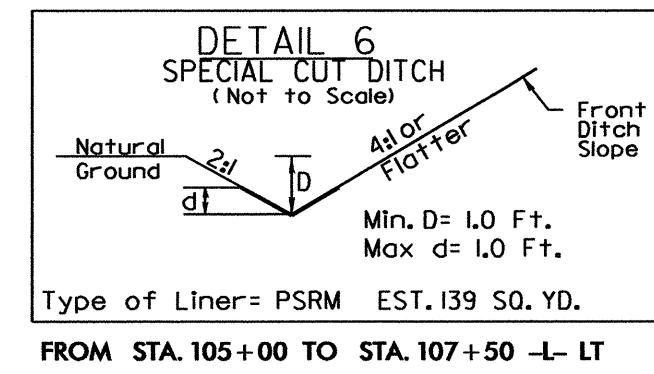
**24 x 6 x 2  
ID 9.7**



8/17/99  
31-MAY-2012 14:24  
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10:00:00 AM AT RENY247770

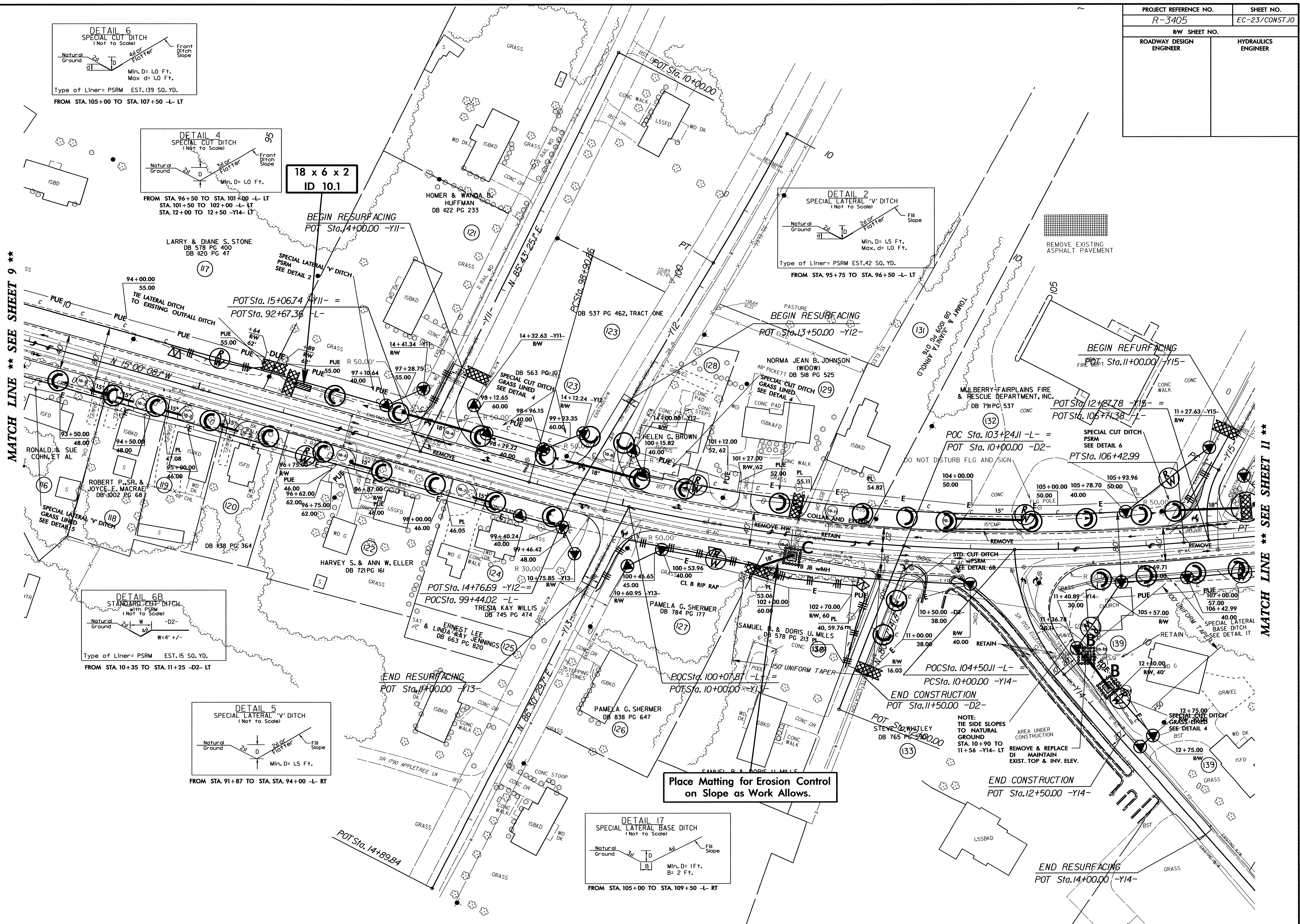


PROJECT REFERENCE NO.	SHEET NO.
R-3405	EC-23/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE \*\* SEE SHEET 9 \*\*

MATCH LINE \*\* SEE SHEET 11 \*\*



Place Matting for Erosion Control on Slope as Work Allows.

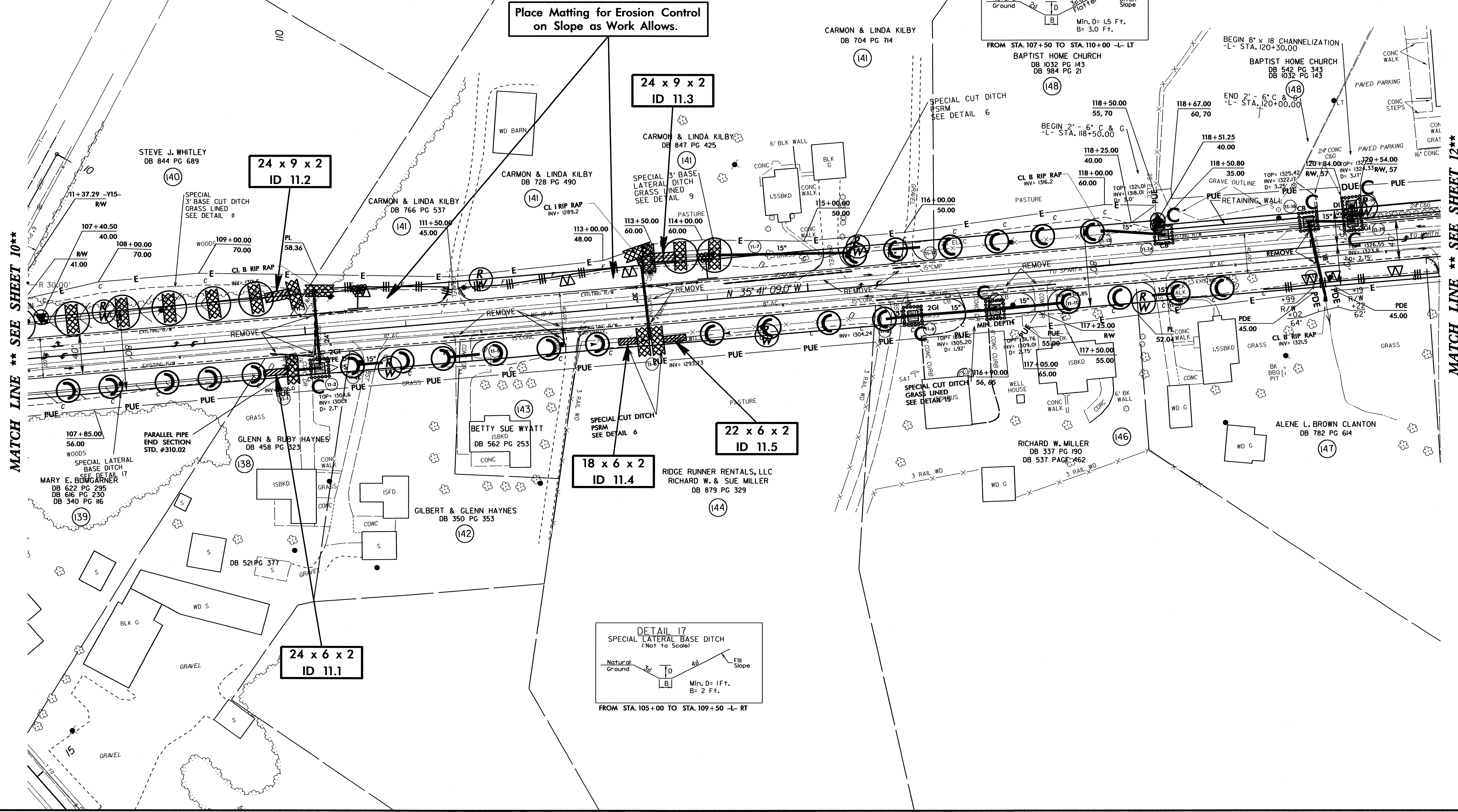
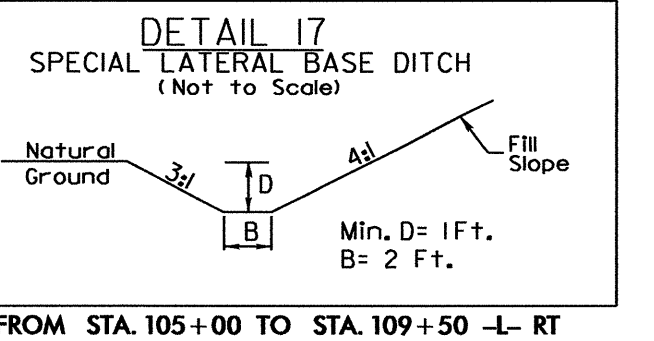
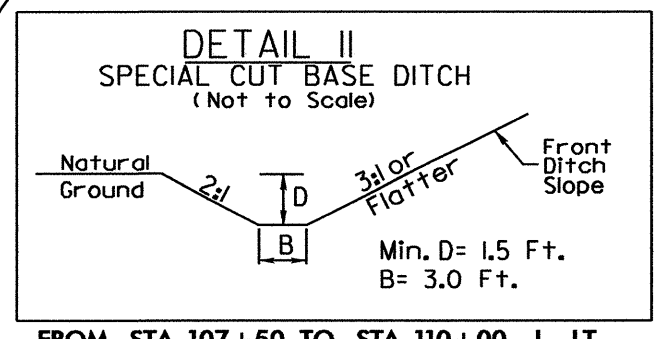
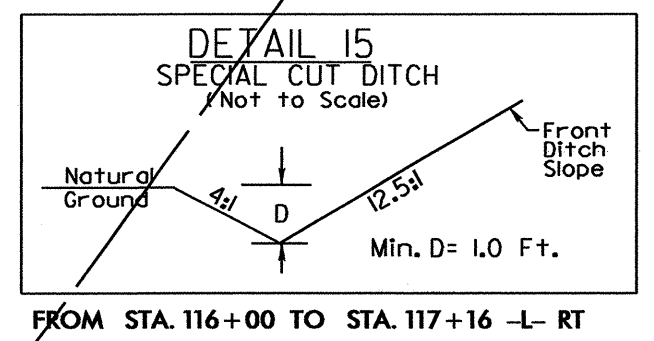
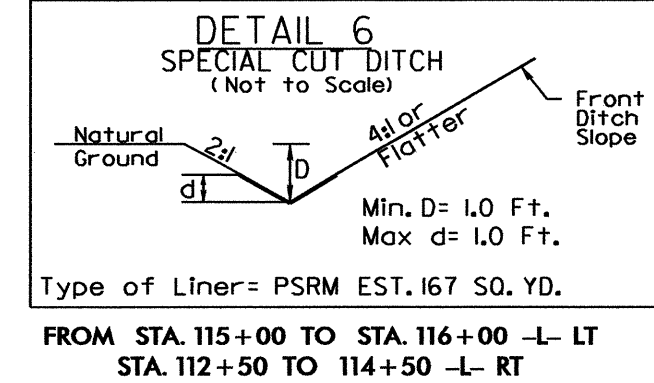
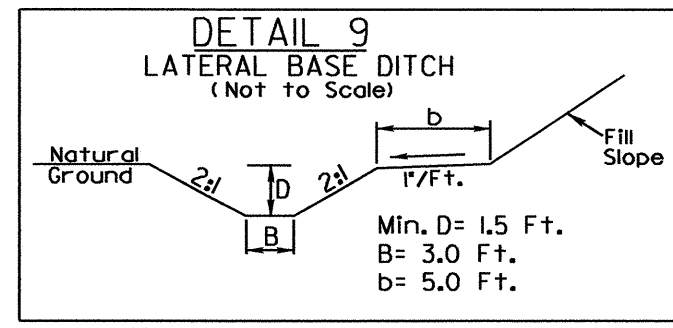
NOTE:  
TIE SIDE SLOPES TO NATURAL GROUND STA. 10+90 TO 11+56 -Y14- LT  
REMOVE & REPLACE DI MAINTAIN EXIST. TOP & INV. ELEV.  
AREA UNDER CONSTRUCTION

END RESURFACING  
POT Sta. 14+00.00 -Y14-

8/17/99  
31-MAY-2012 14:27  
R:\Environment\Design\3405\3405-EC-psr10.dgn  
R:\Environment\Design\3405\3405-EC-psr10.dgn  
R:\Environment\Design\3405\3405-EC-psr10.dgn



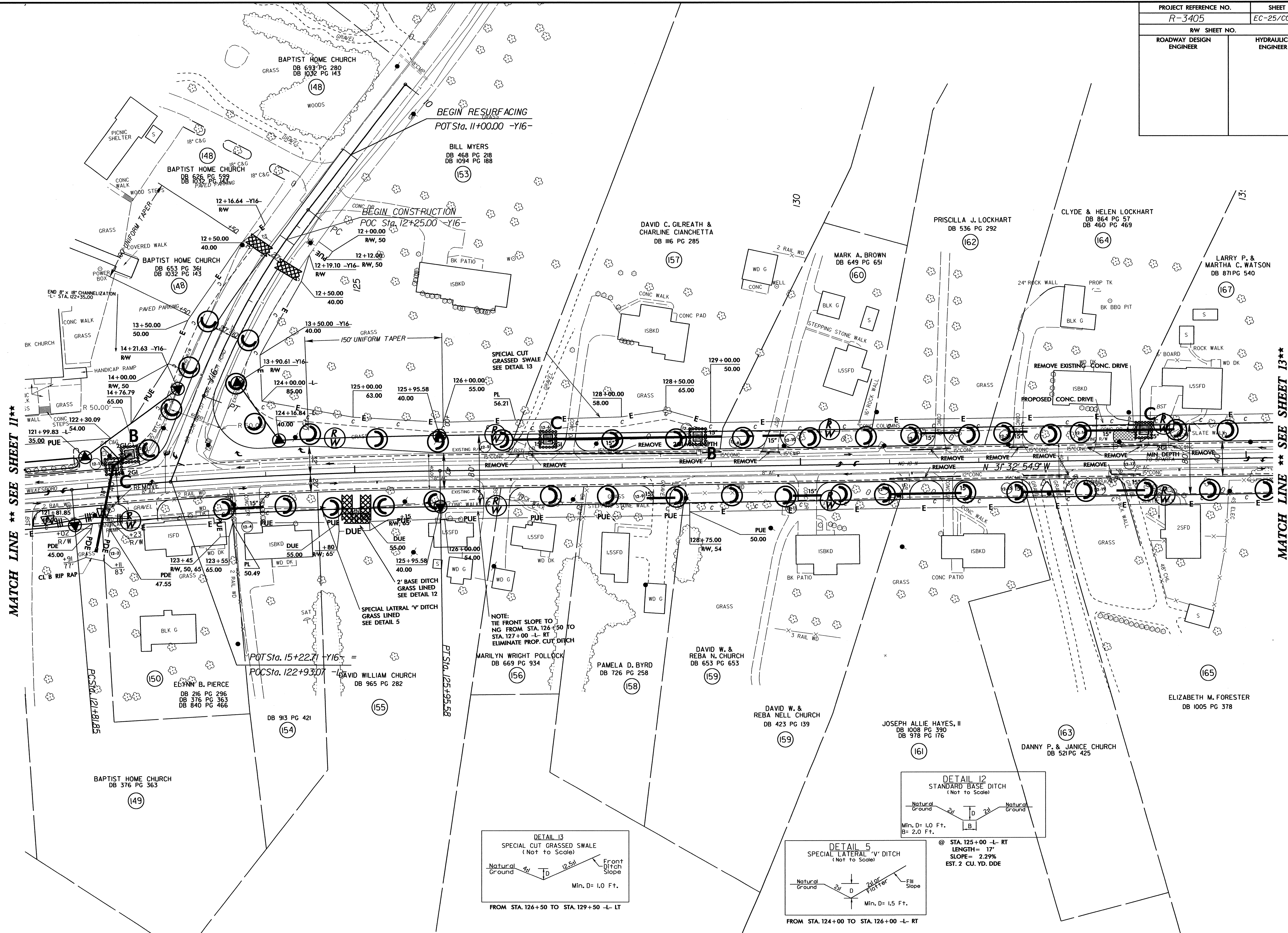
PROJECT REFERENCE NO. R-3405	SHEET NO. EC-24/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



8/17/99  
 31-MAY-2012 14:30  
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 AT BENY27770

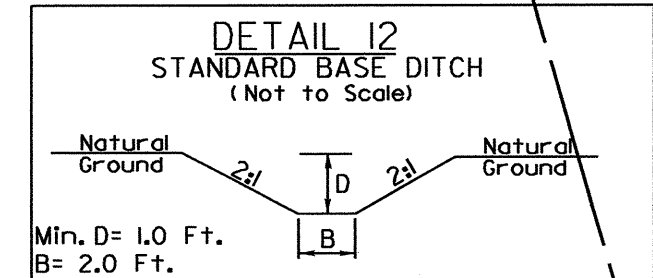
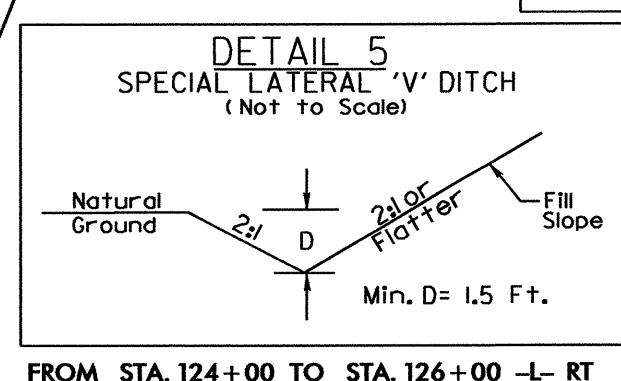
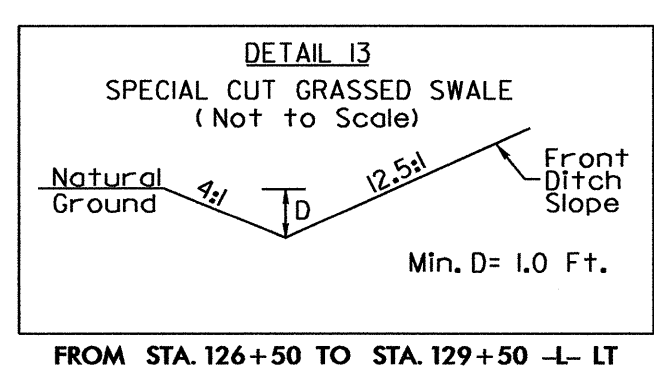


PROJECT REFERENCE NO. R-3405		SHEET NO. EC-25/CONST.12	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCH LINE \*\* SEE SHEET 11 \*\*

MATCH LINE \*\* SEE SHEET 13 \*\*



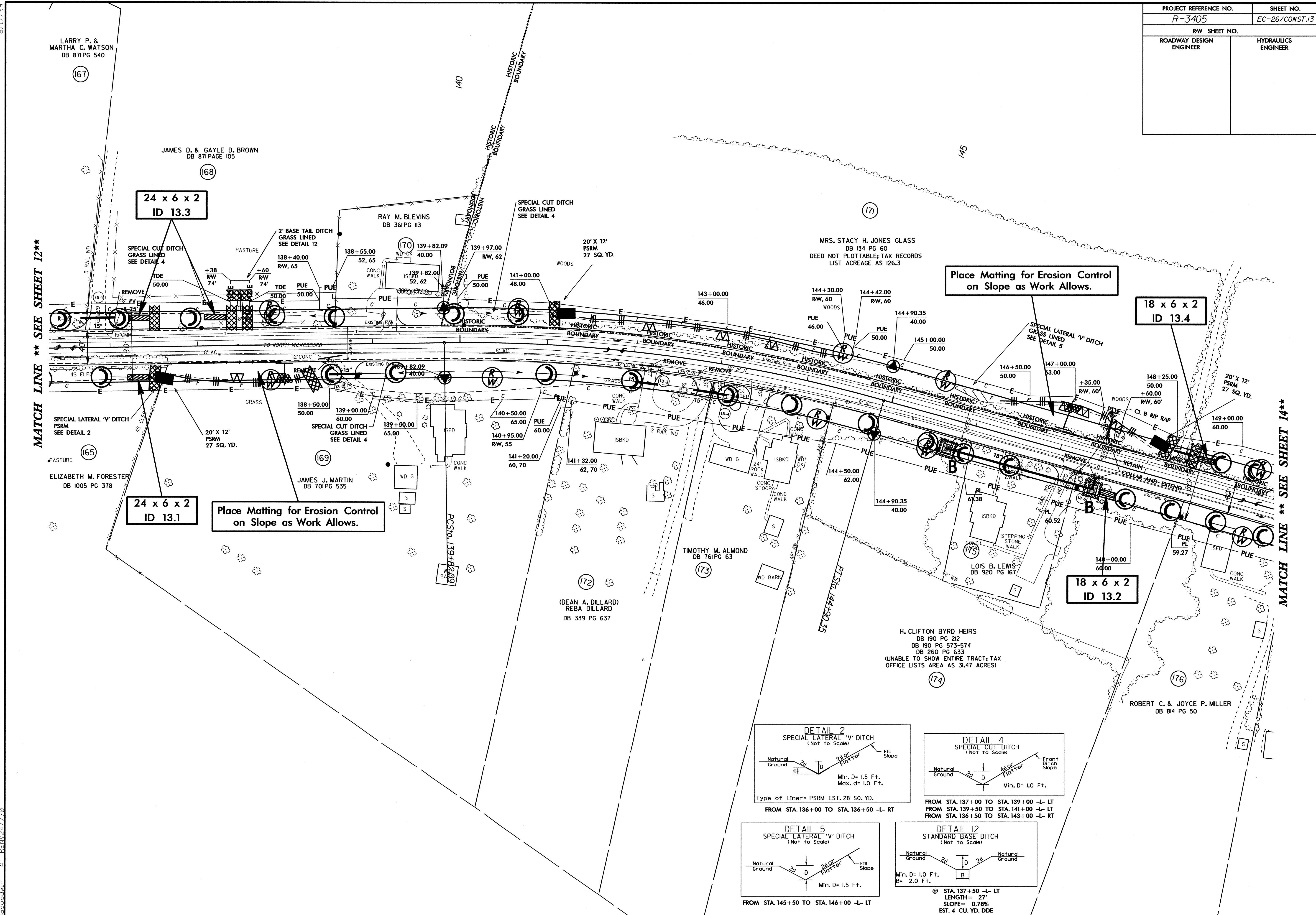
@ STA. 125+00 -L- RT  
LENGTH= 17'  
SLOPE= 2.29%  
EST. 2 CU. YD. DDE

NOTE:  
TIE FRONT SLOPE TO  
NG FROM STA. 126+50  
TO STA. 127+00 -L- RT  
ELIMINATE PROP. CUT DITCH

8/17/09  
31-MAY-2012 14:32  
R:\Environment\Design\R-3405\R-3405-EC-psh12.dgn  
AT:RENV247770



PROJECT REFERENCE NO. R-3405		SHEET NO. EC-26/CONST.13	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

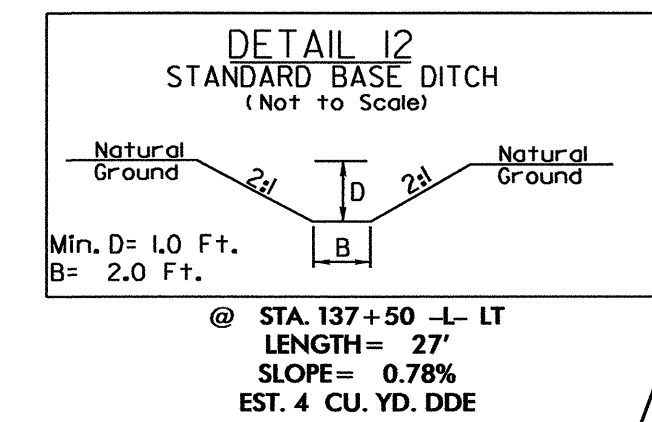
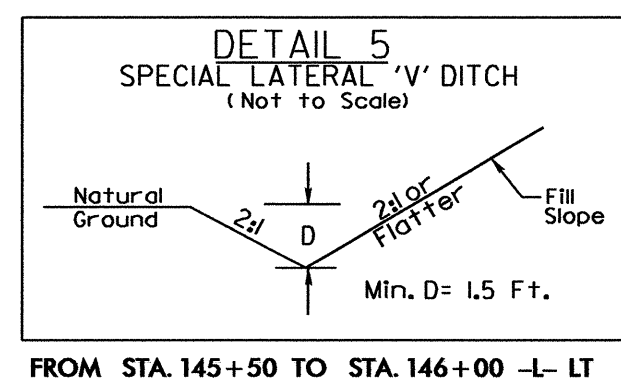
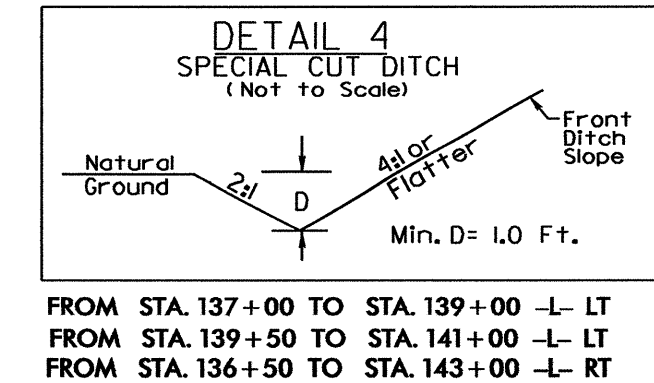
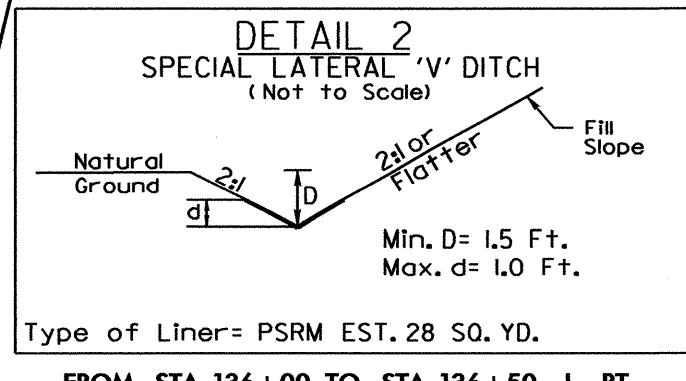


MATCH LINE \*\* SEE SHEET 12\*\*

MATCH LINE \*\* SEE SHEET 14\*\*

Place Matting for Erosion Control on Slope as Work Allows.

Place Matting for Erosion Control on Slope as Work Allows.

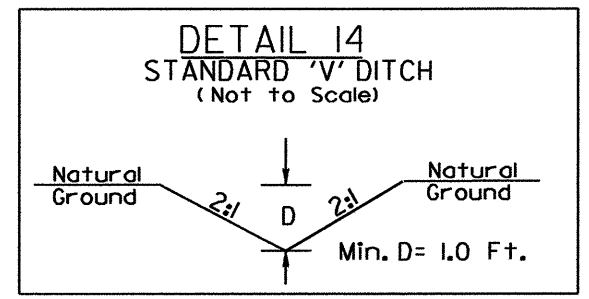


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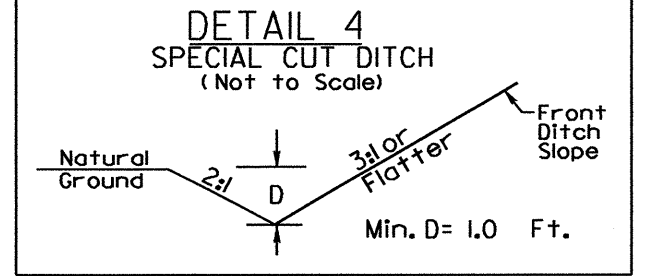
3-MAY-2019 14:35  
 R:\env\com\ec\3405\ec-pah13.dgn  
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 R:\env\com\ec\3405\ec-pah13.dgn



PROJECT REFERENCE NO.		SHEET NO.	
R-3405		EC-27/CONST.J4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



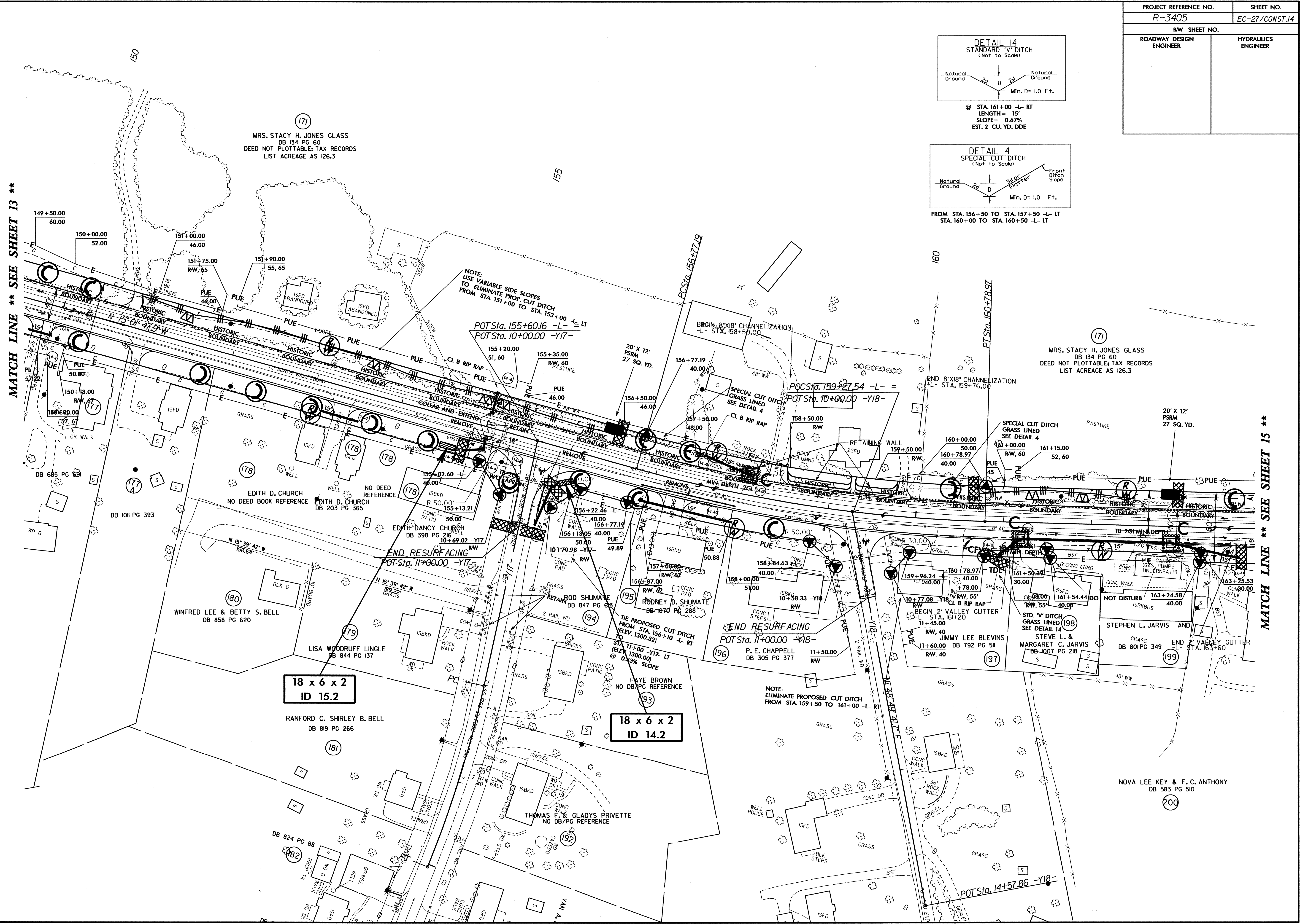
@ STA. 161+00 -L- RT  
LENGTH = 15'  
SLOPE = 0.67%  
EST. 2 CU. YD. DDE



FROM STA. 156+50 TO STA. 157+50 -L- LT  
STA. 160+00 TO STA. 160+50 -L- LT

MATCH LINE \*\* SEE SHEET 13 \*\*

MATCH LINE \*\* SEE SHEET 15 \*\*

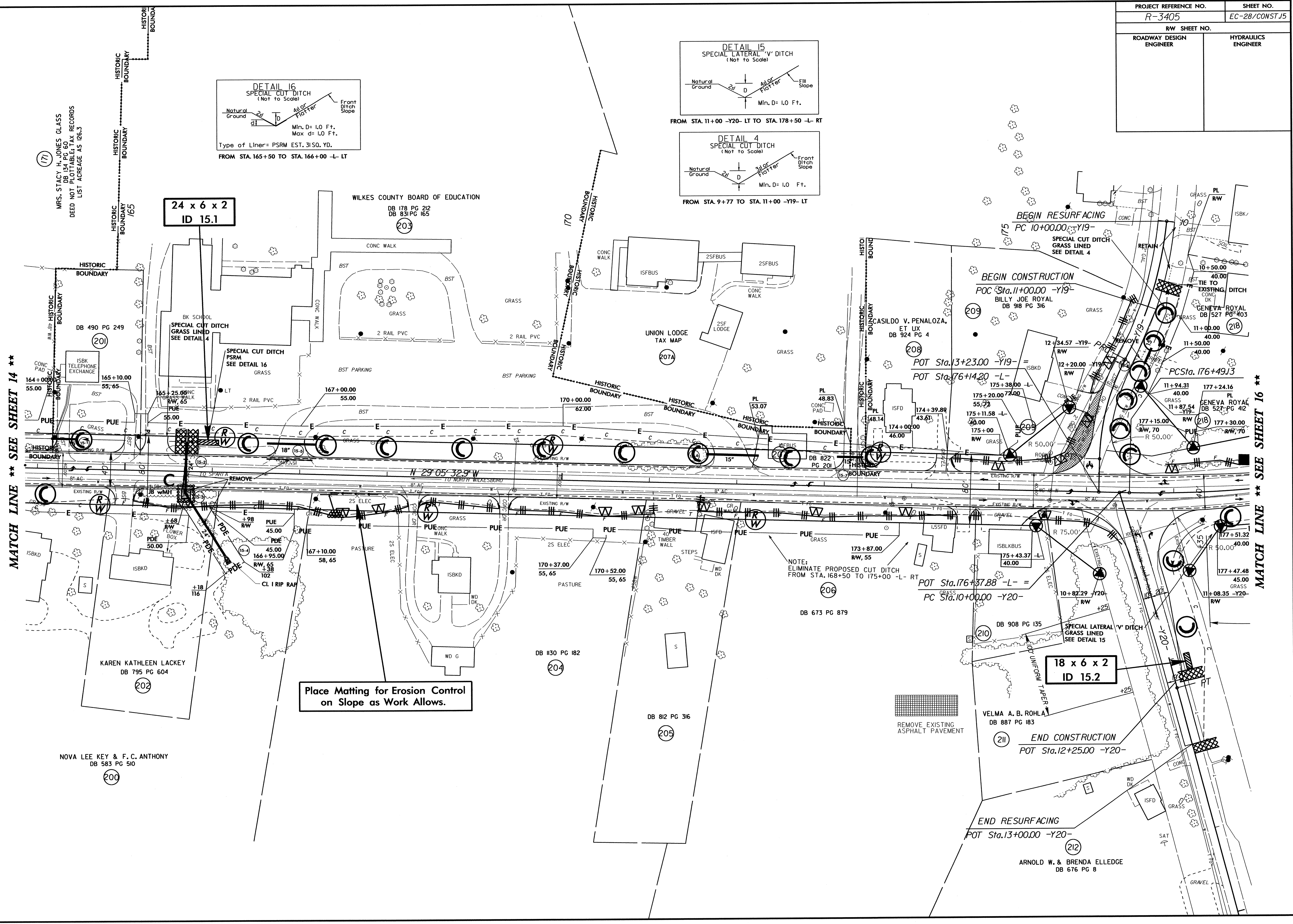
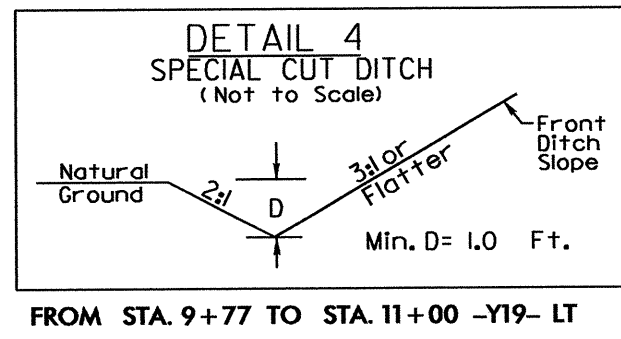
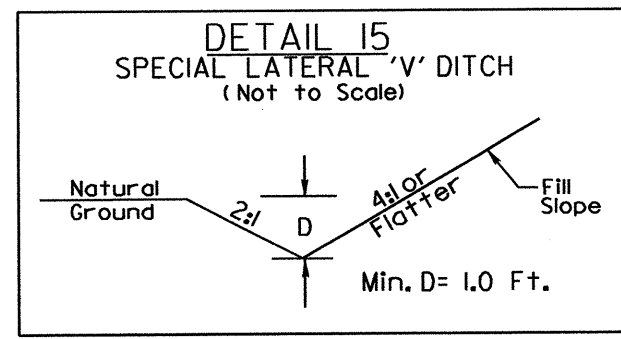
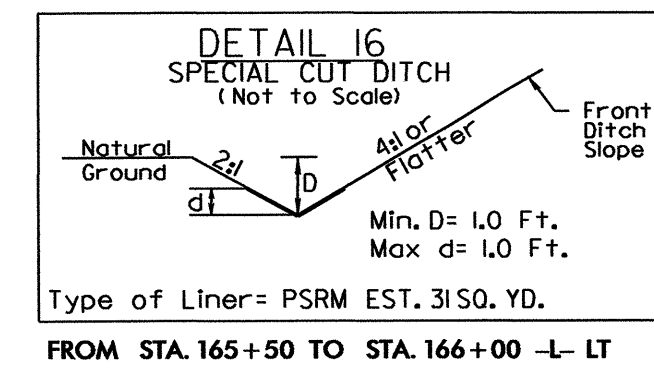


18 x 6 x 2  
ID 15.2

18 x 6 x 2  
ID 14.2

8/17/99  
31-MAY-2012 14:55  
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24 x 6 x 2  
ID 15.1

18 x 6 x 2  
ID 15.2

Place Matting for Erosion Control  
on Slope as Work Allows.

NOTE:  
ELIMINATE PROPOSED CUT DITCH  
FROM STA. 168+50 TO 175+00 -L- RT

MATCH LINE \*\* SEE SHEET 14 \*\*

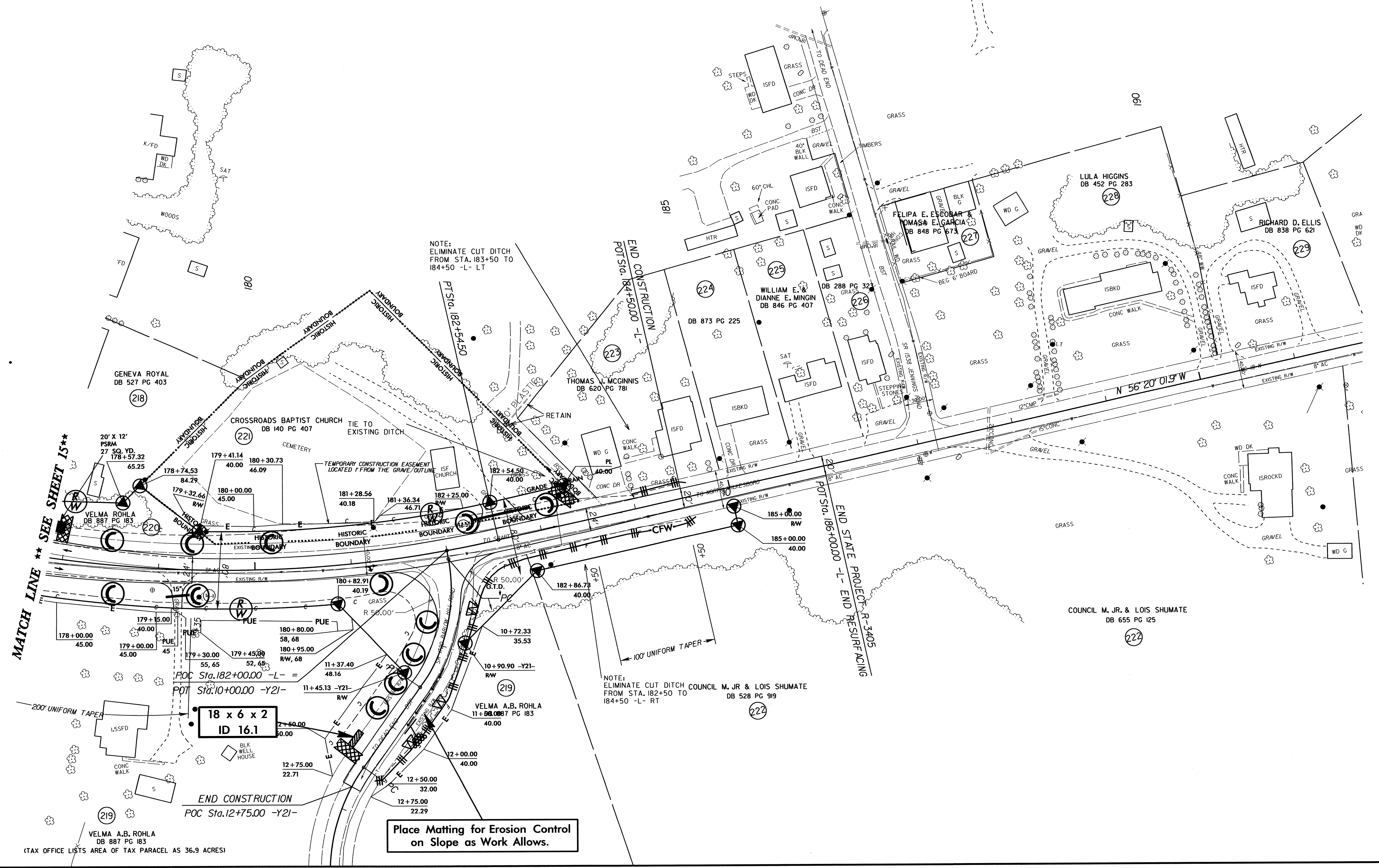
MATCH LINE \*\* SEE SHEET 16 \*\*

8/17/99  
MAY-2012 14:57  
D:\Projects\3405\3405-R-3405-EC-psh15.dgn  
REVISIONS  
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PROJECT REFERENCE NO.		SHEET NO.	
R-3405		EC-29/CONST.16	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

8/17/99  
 3-MAY-2012 14:58  
 R:\Environment\101\REN23770\Design\NR-3405\NR-3405-EC.psh16.dgn  
 User: jkennedy



NOTE:  
ELIMINATE CUT DITCH  
FROM STA. 183+50 TO  
184+50 -L- LT

NOTE:  
ELIMINATE CUT DITCH COUNCIL M. JR & LOIS SHUMATE  
FROM STA. 182+50 TO  
184+50 -L- RT

**MATCH LINE \*\* SEE SHEET 15\*\***

**Place Matting for Erosion Control  
on Slope as Work Allows.**

**18 x 6 x 2  
ID 16.1**