

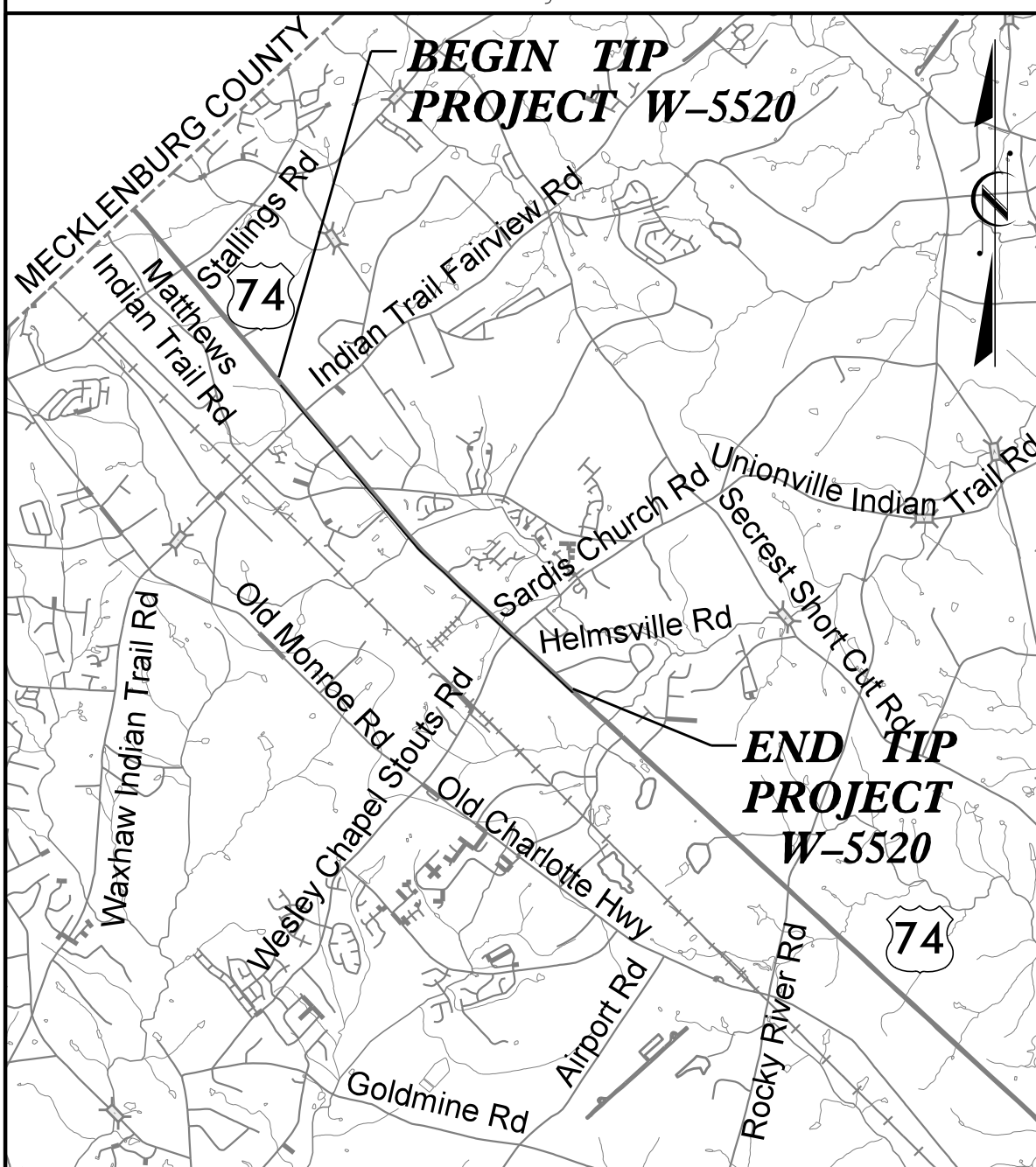
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**This file or an individual page
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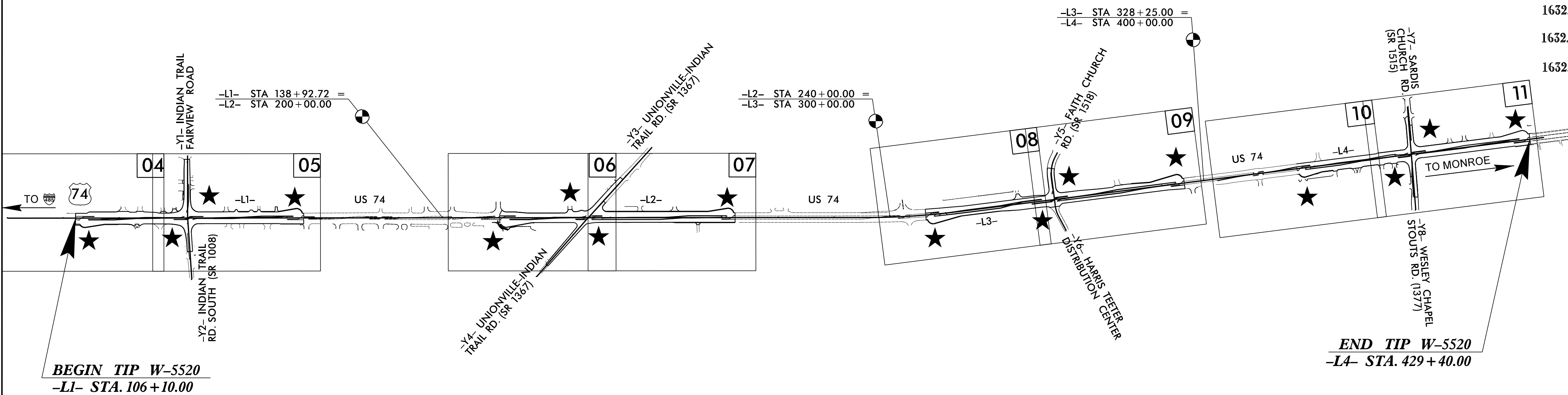
TIP PROJECT: W-5520

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See 1C Sheet Series For Survey Control



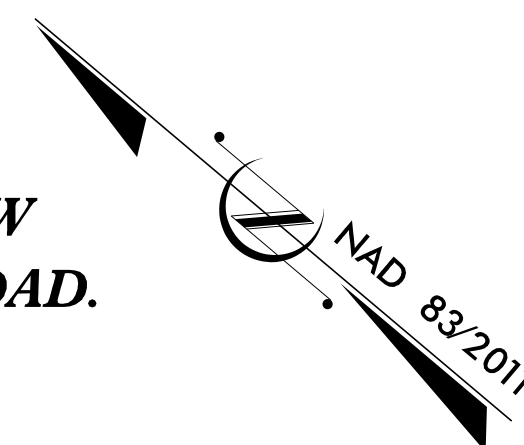
VICINITY MAP

NOT TO SCALE



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

**LOCATION: US 74 SUPERSTREET CONVERSION
FROM 800 FEET WEST OF INDIAN TRAIL-FAIRVIEW
ROAD TO 800 FEET EAST OF SARDIS CHURCH ROAD.
TYPE OF WORK: GRADING, DRAINAGE, PAVING & SIGNALS**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5520	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50092.1.FS1	HSIP-0074(156)	P.E.	
50092.2.1	HSIP-0074(156)	R/W & UTIL	
50092.3.1	HSIP-0074(156)	CONSTRUCTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1650.03	Temporary Silt Ditch	TD
1650.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	▲▲▲
1622.01	Temporary Berms and Slope Drains	▲
1650.02	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	▨

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

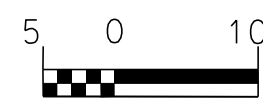
GRAPHIC SCALE



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

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



2012 STANDARD SPECIFICATIONS

Designed by:

MICHAEL HAGE
NAME

3775
LEVEL III CERTIFICATION NO.

Prepared in the Office of:

DRMP, INC.
5950 FAIRVIEW ROAD, SUITE 320
CHARLOTTE, NORTH CAROLINA 28210
(704) 332-2289
NC LICENSE NO. C-2213

Reviewed in the Office of:

ROADSIDE ENVIRONMENTAL UNIT

375 Silas Creek Parkway
Winston-Salem, NC 27127

2012 STANDARD SPECIFICATIONS

Reviewed by:

Phil H. Suggs, CPESC

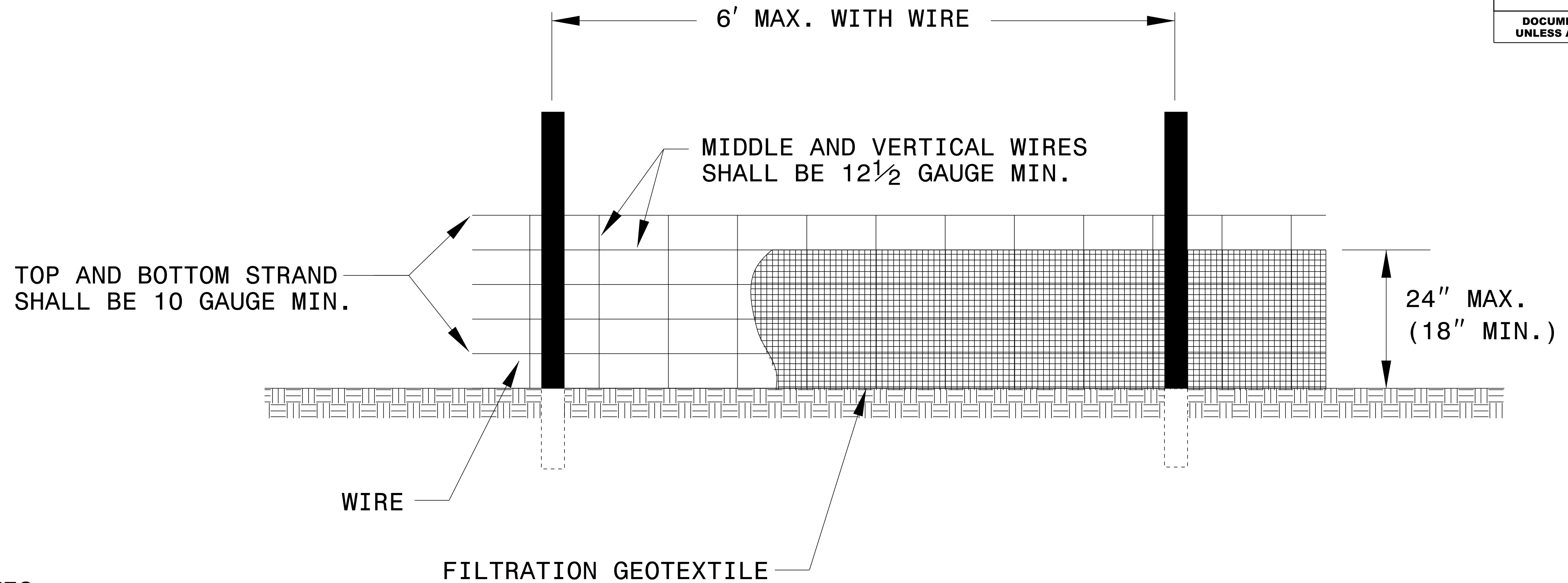
Roadway Standard Drawings

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	

REINFORCED TEMPORARY SILT FENCE DETAIL

PROJECT REFERENCE NO. W-5520	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



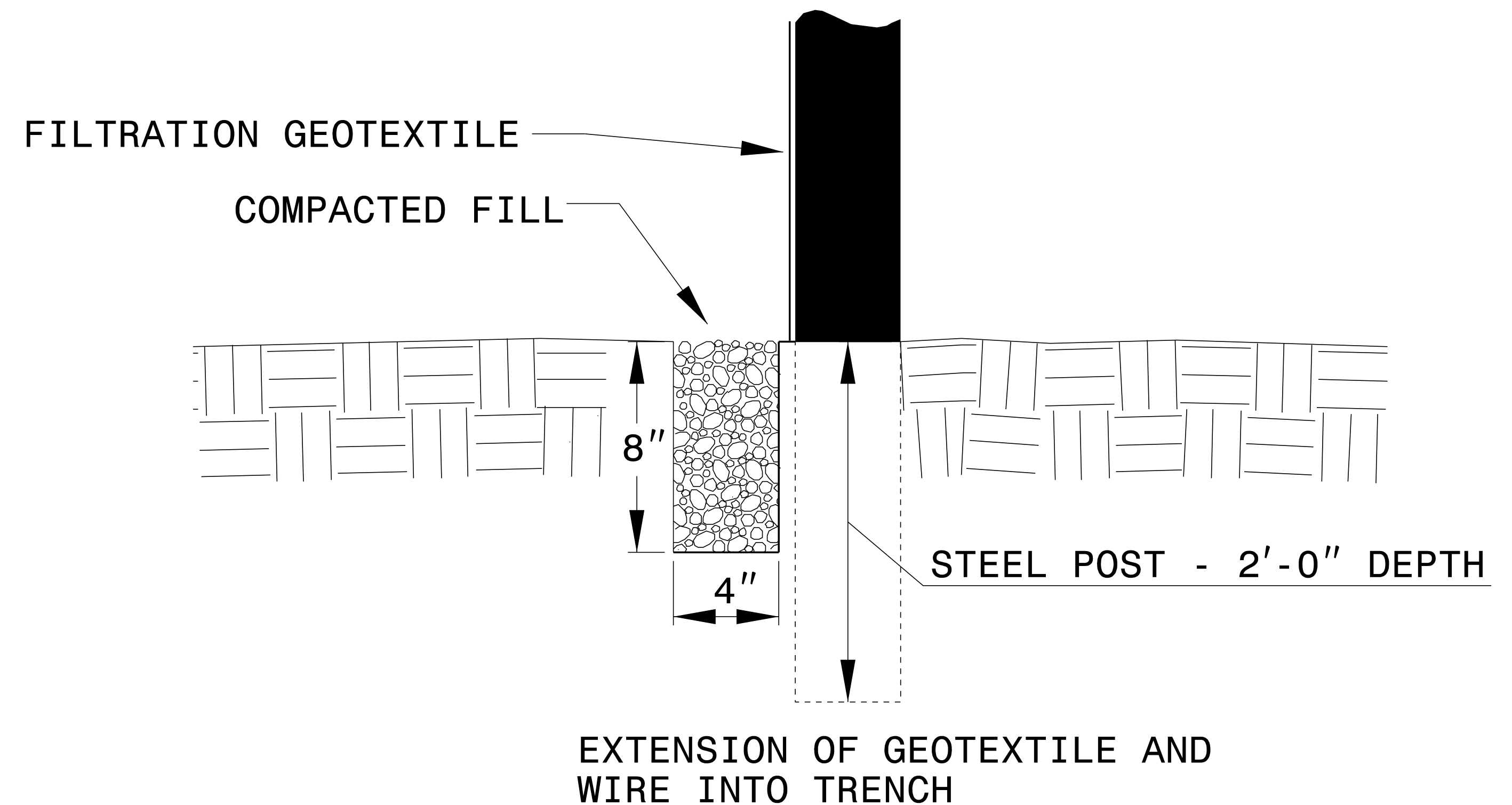
NOTES

USE FILTRATION GEOTEXTILE A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE POSTS AND WIRE AS DIRECTED.

USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

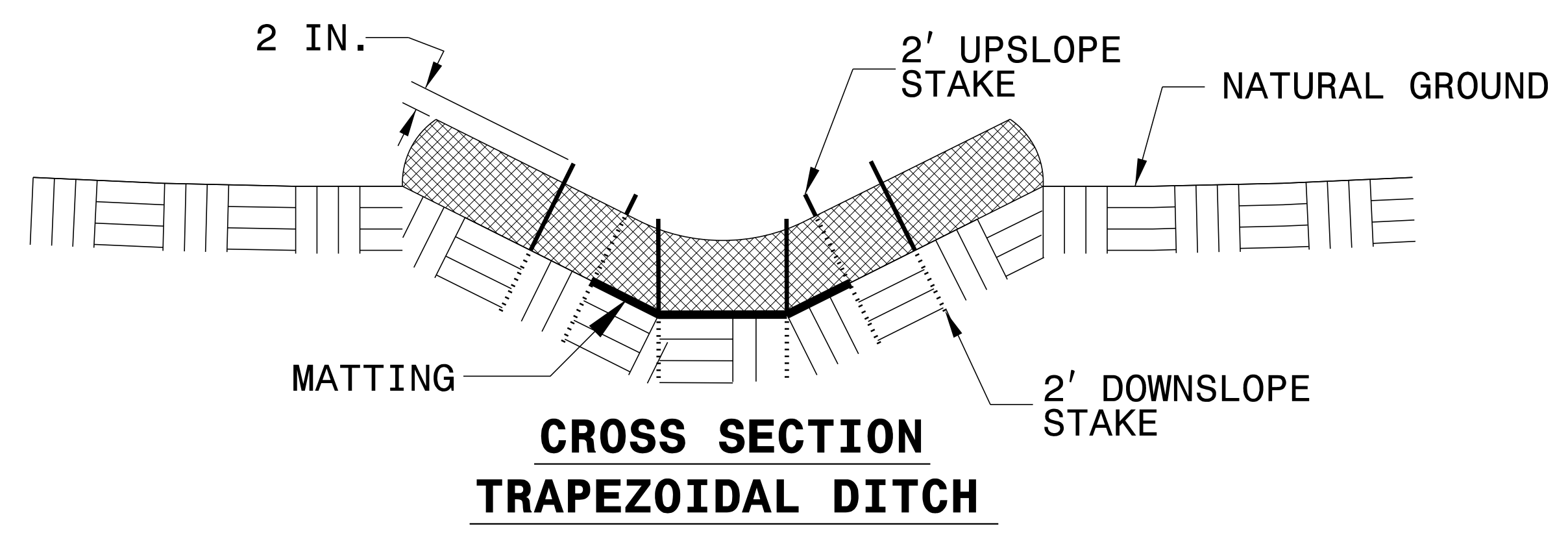
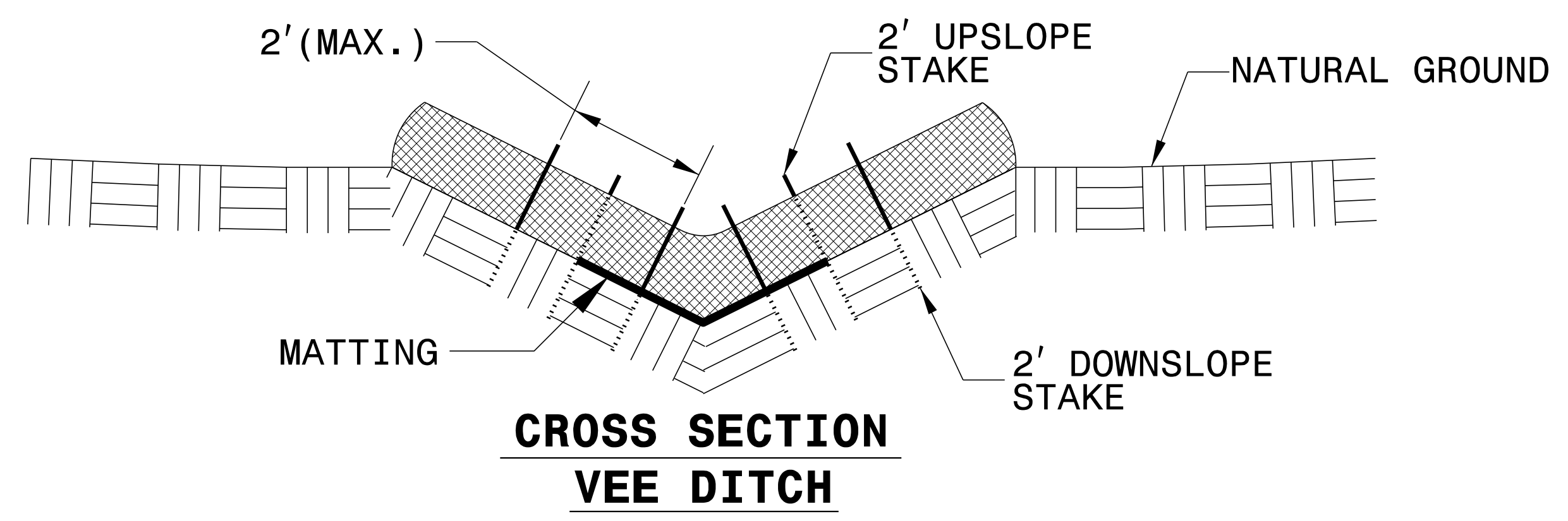
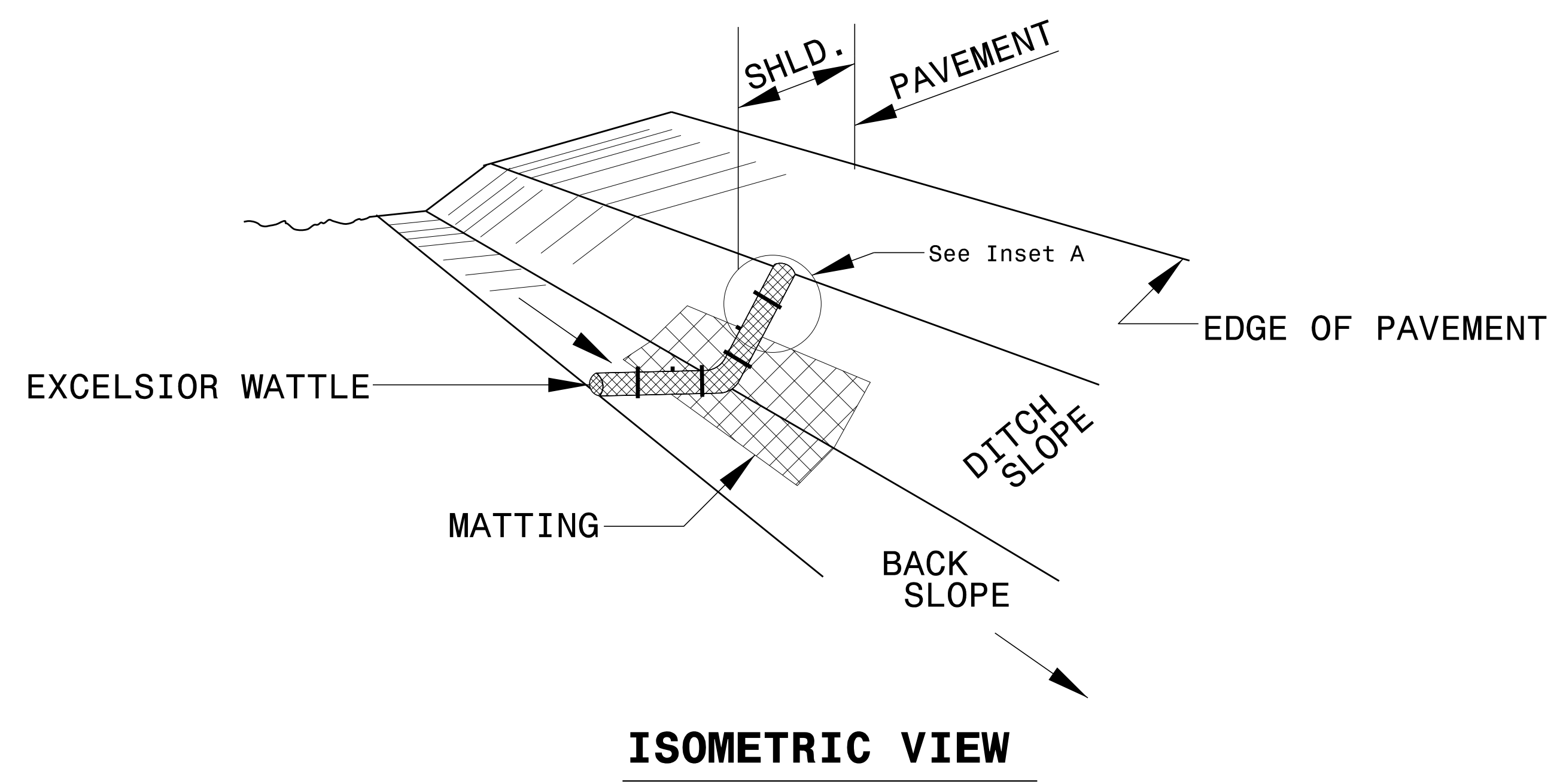
PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.

FOR MECHANICAL SLICING METHOD INSTALLATION, GEOTEXTILE SHALL BE A MAXIMUM OF 18" ABOVE GROUND SURFACE.



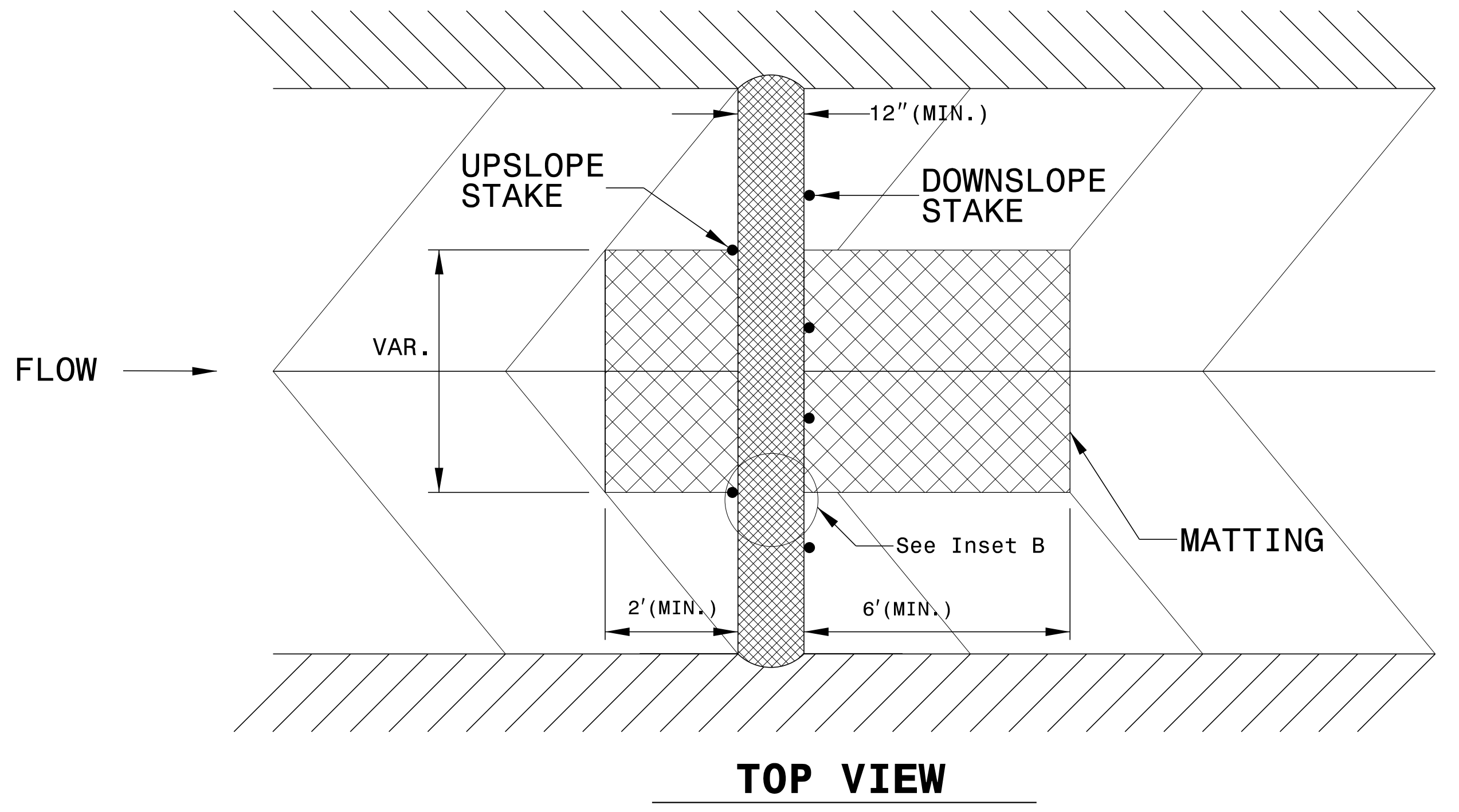
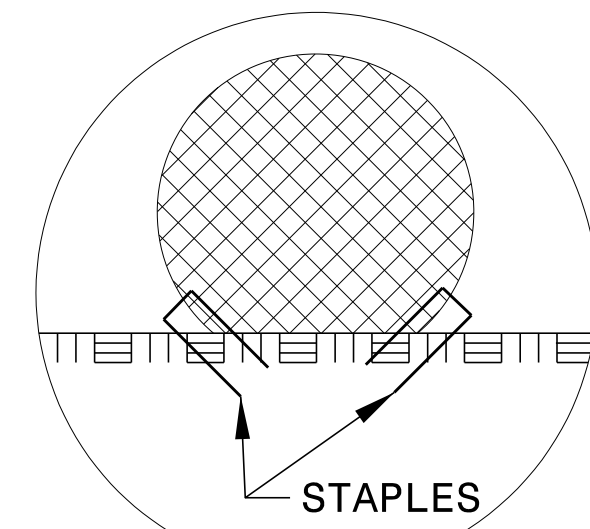
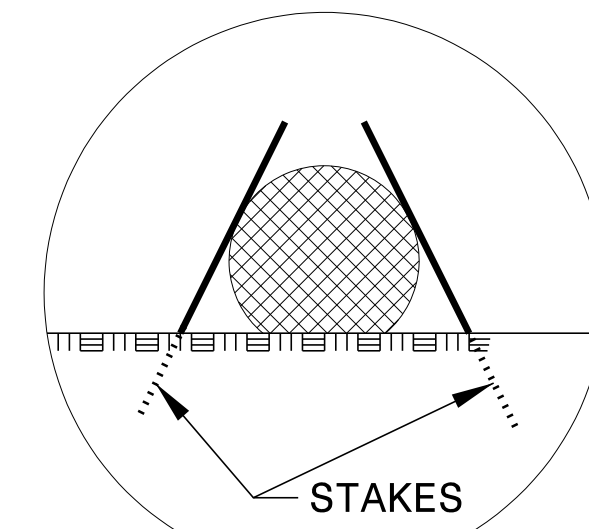
PROJECT REFERENCE NO. W-5520	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

WATTLE DETAIL



NOTES:

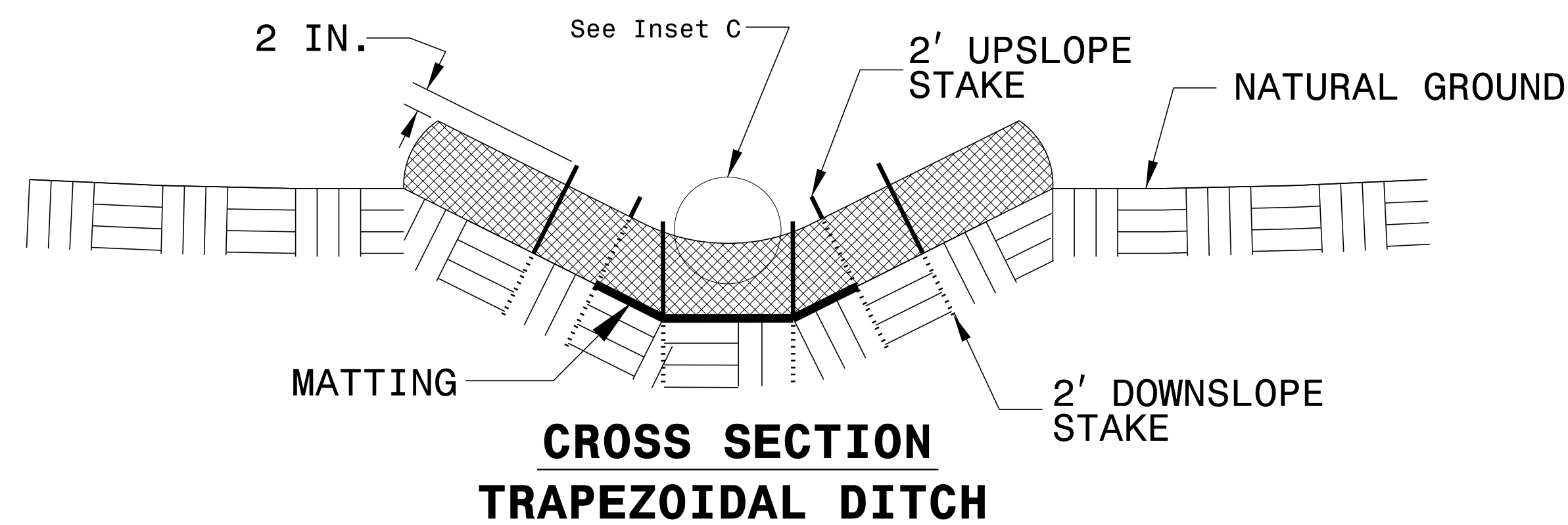
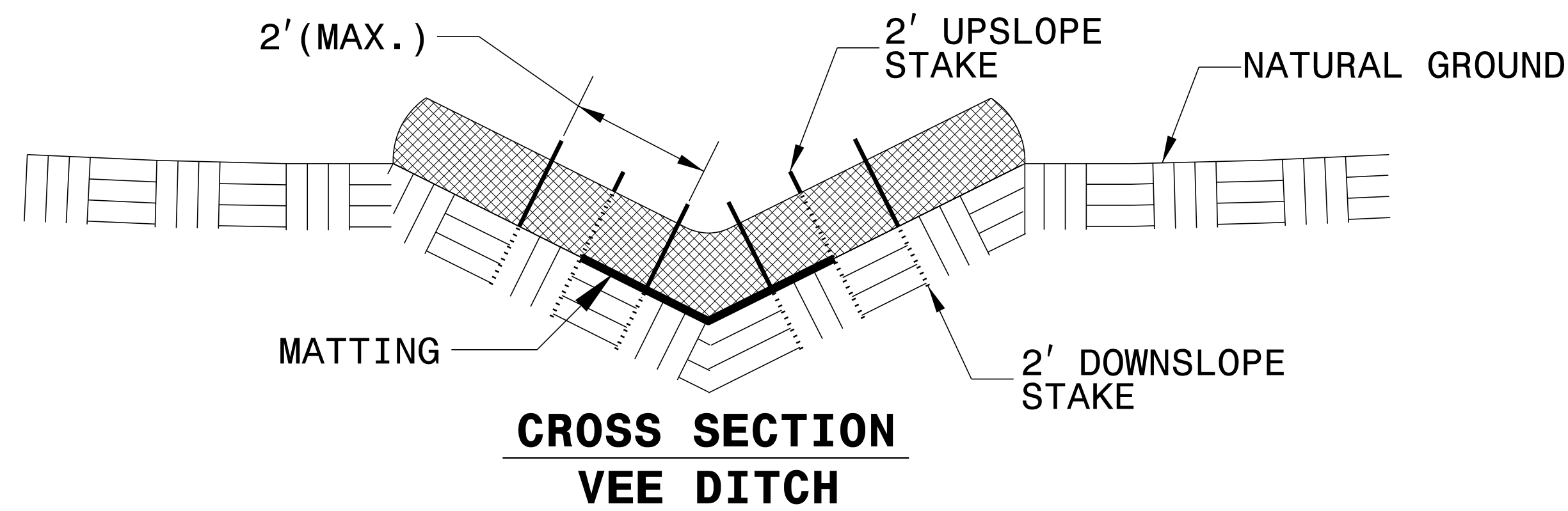
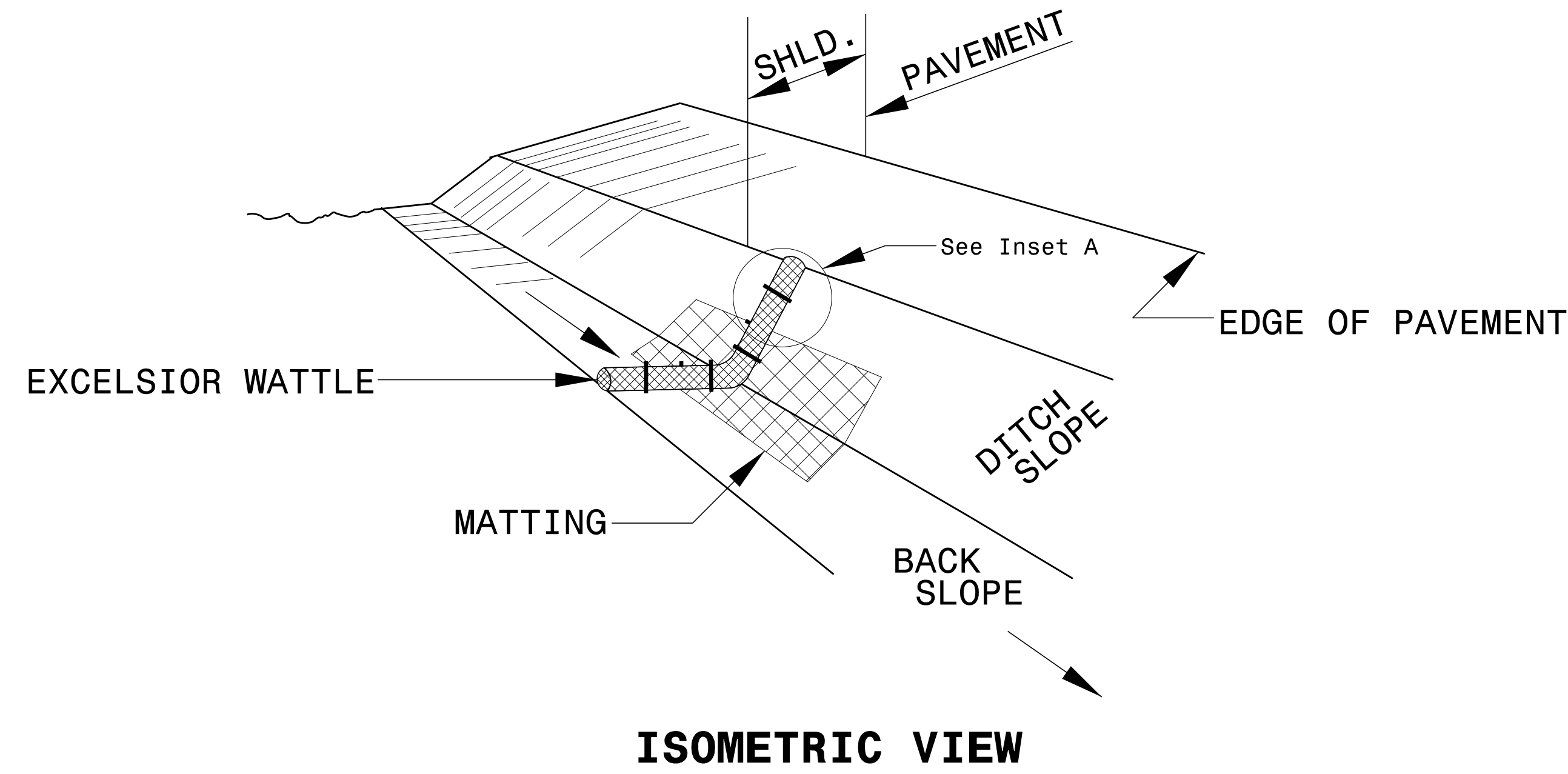
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES 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.



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 psh
 dwg

PROJECT REFERENCE NO. W-5520	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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.

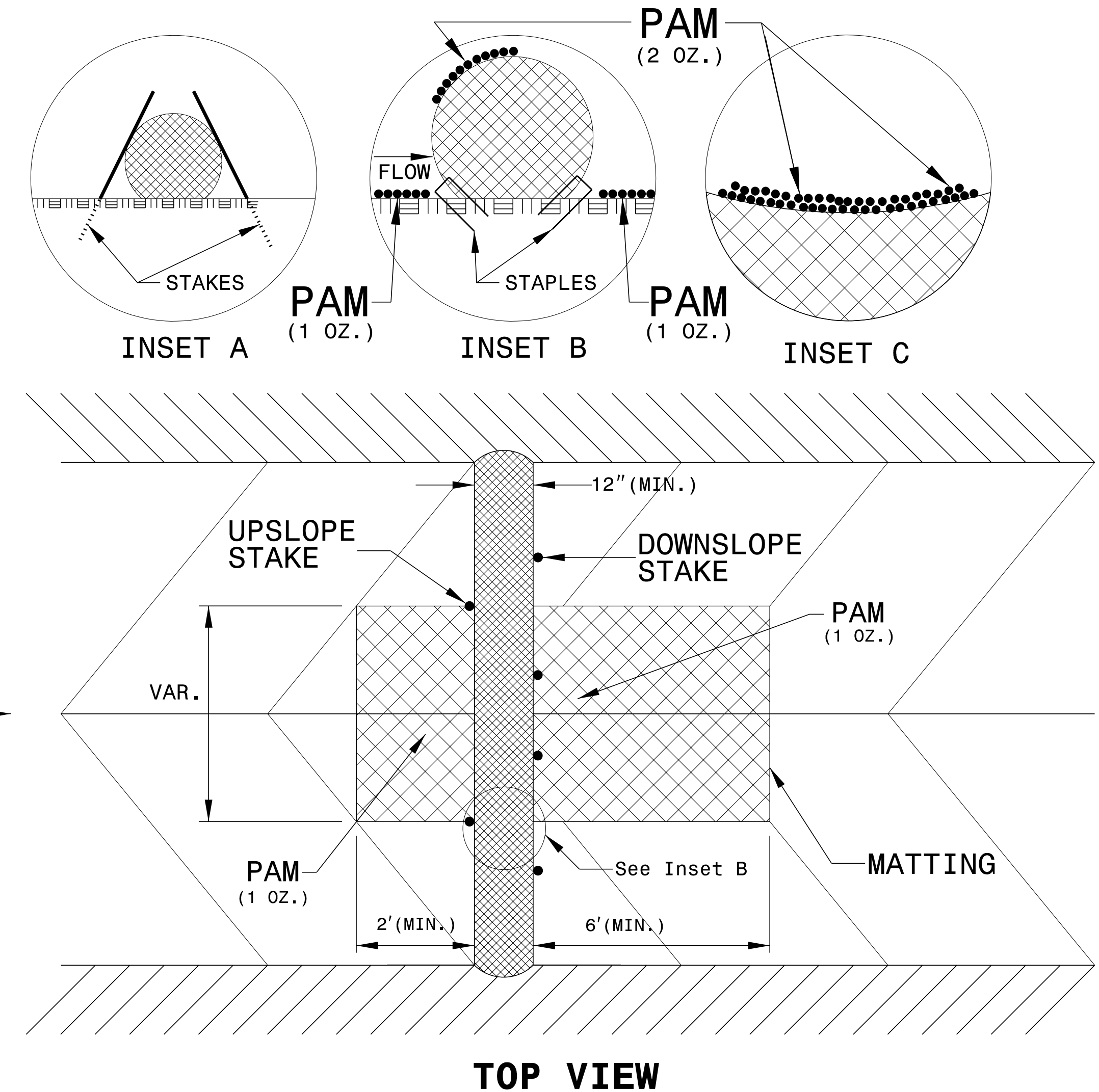
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

SOIL STABILIZATION TIMEFRAMES

PROJECT REFERENCE NO. <i>W-5520</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

<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.	SHEET NO.
W-5520	EC-04/CONST.04
R/W SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

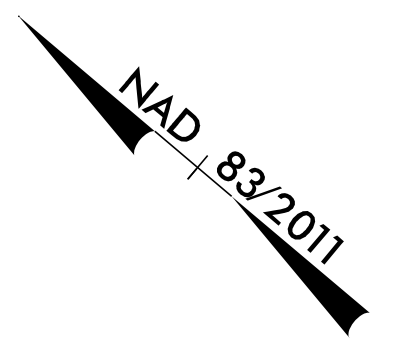
PLANS PREPARED BY:



DRMP
ENGINEERS - PLANNERS - SCIENTISTS

DRMP INC.
1600 PARKWAY DRIVE, SUITE 300
COLUMBIA, SC 29210
REGISTRATION NO. 022174 - P.E. 1546 300-0349

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

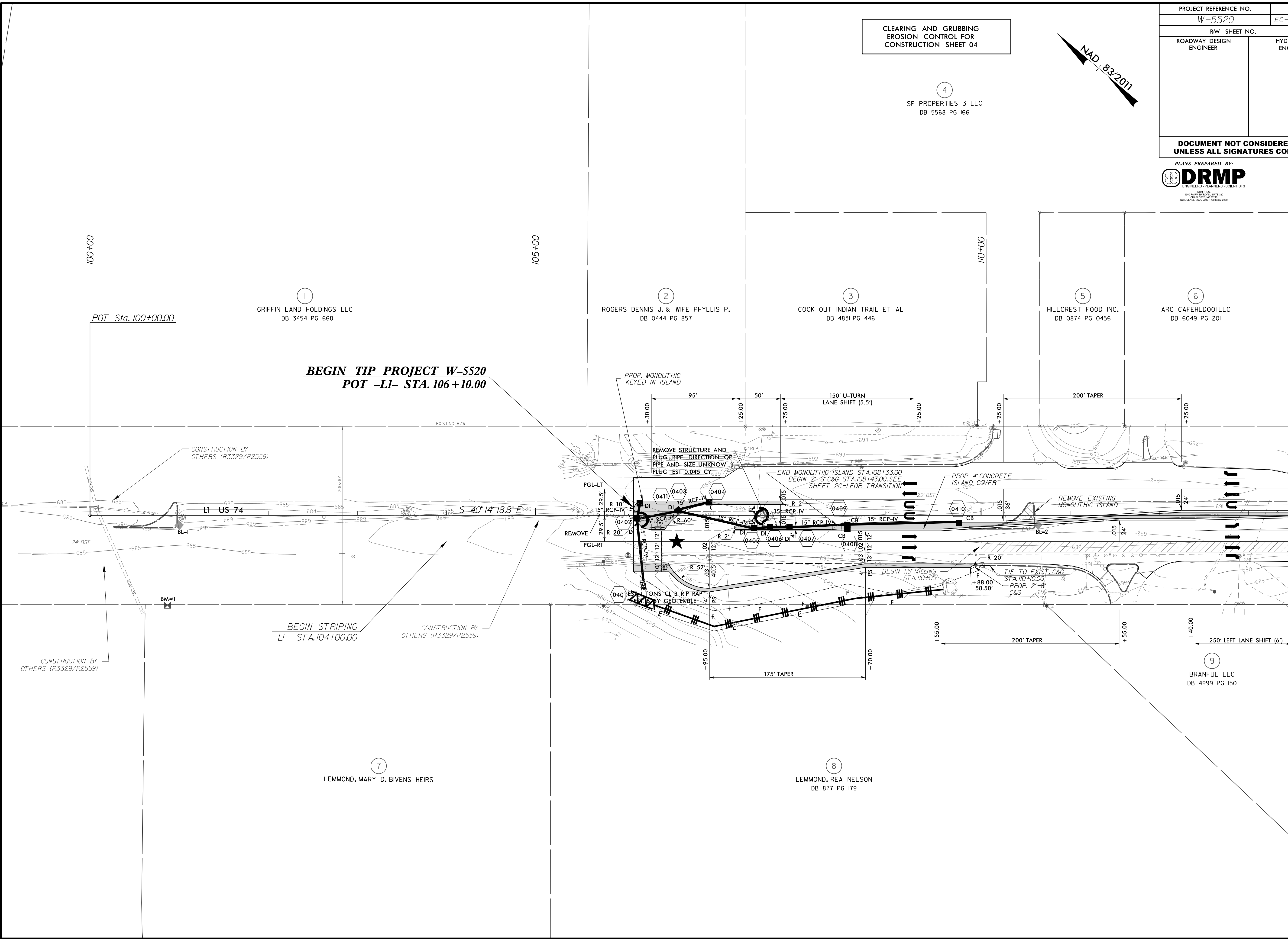


④
SF PROPERTIES 3 LLC
DB 5568 PG 166

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REVISIONS



MATCH LINE -LI- STA. 113+50 SEE SHEET 05

8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

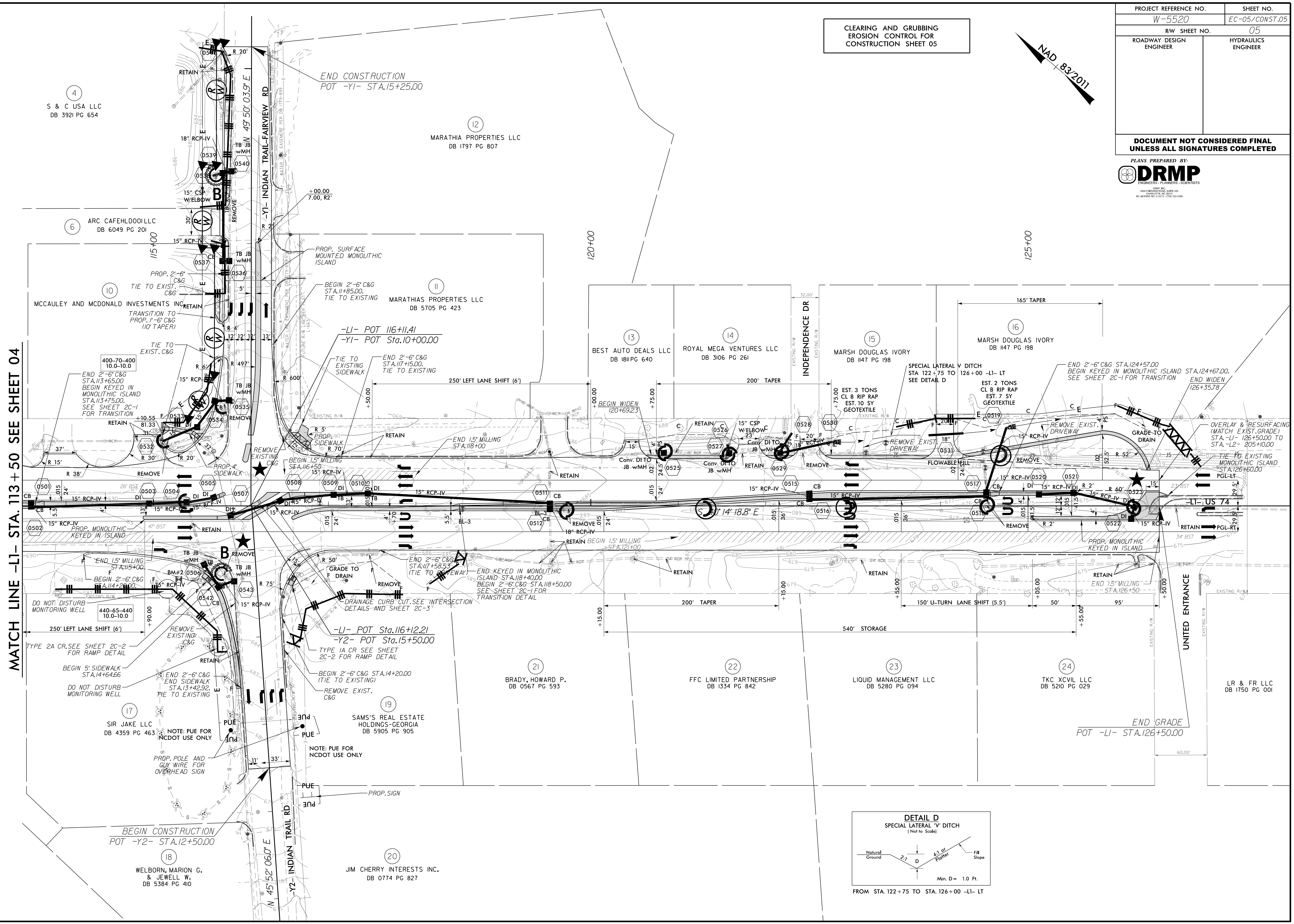


PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-05/CONST.05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	05

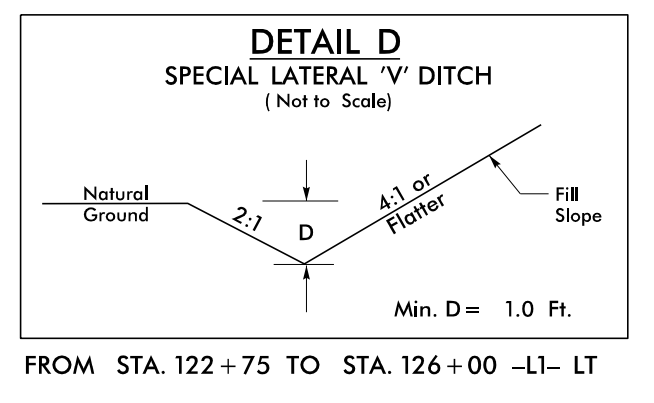
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCH LINE -L1- STA. 113 + 50 SEE SHEET 04



REVISIONS



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pawlight

-DRVI-
 PI Sta 5+66.13
 $\Delta = 46^{\circ} 57' 34.3''$ (RT)
 $D = 79^{\circ} 34' 38.9''$
 $L = 59.01'$
 $T = 31.28'$
 $R = 72.00'$
 e = EXISTING

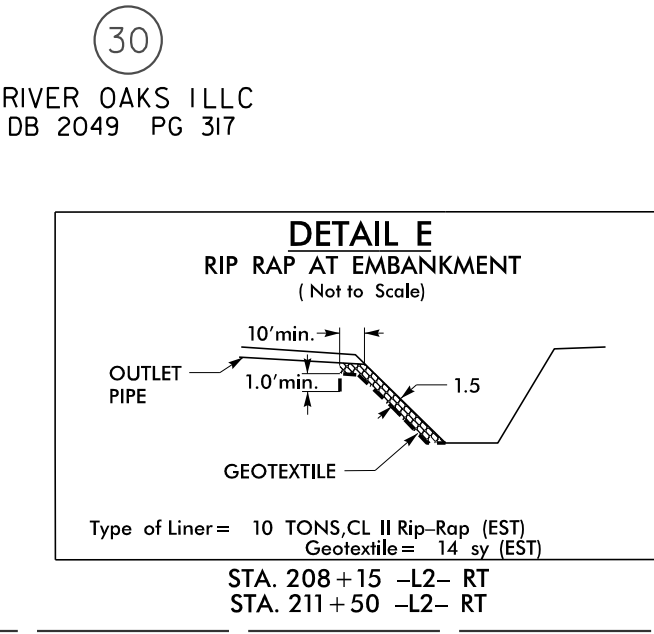
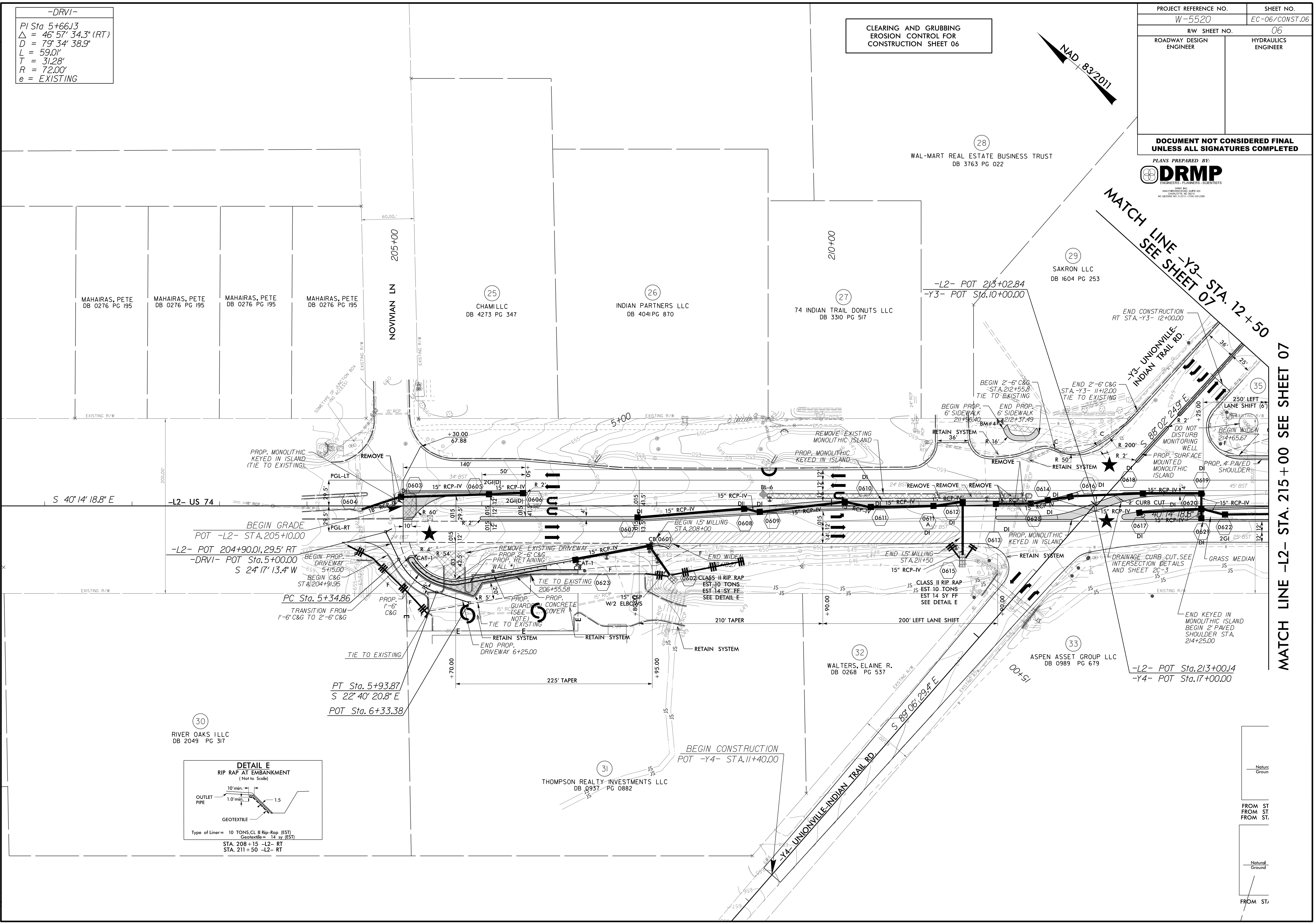
CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 06

PROJECT REFERENCE NO. W-5520	SHEET NO. EC-06/CONST.06
RW SHEET NO. 06	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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PLANS PREPARED BY:
DRMP
 ENGINEERS - PLANNERS - SCIENTISTS

REVISIONS



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MATCH LINE -L2- STA. 215+00 SEE SHEET 07

Natural Ground
 FROM ST
 FROM ST
 FROM ST

PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-07/CONST.07
RW SHEET NO.	07
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

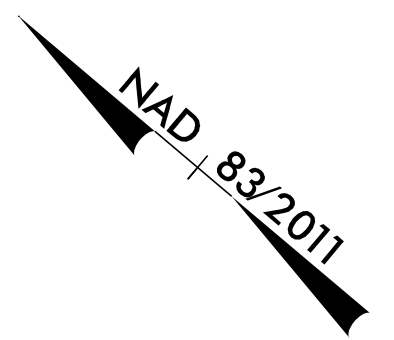
PLANS PREPARED BY:



DRMP
ENGINEERS - PLANNERS - SCIENTISTS

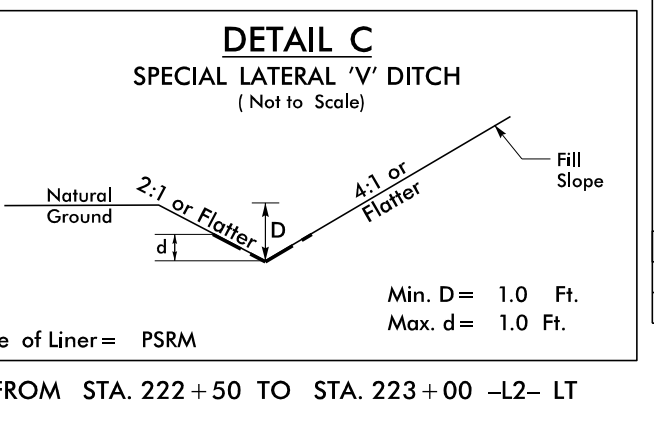
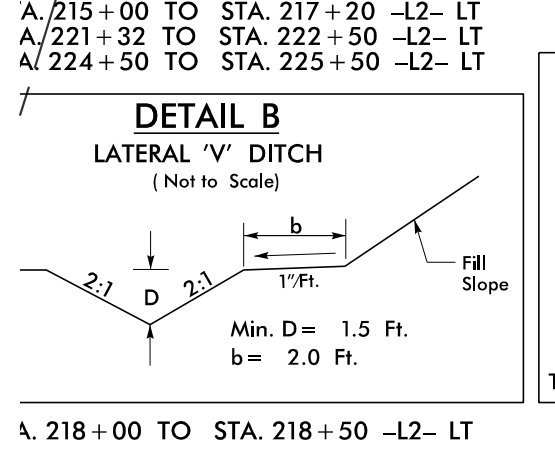
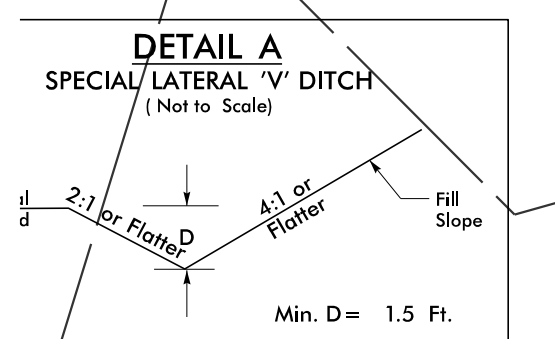
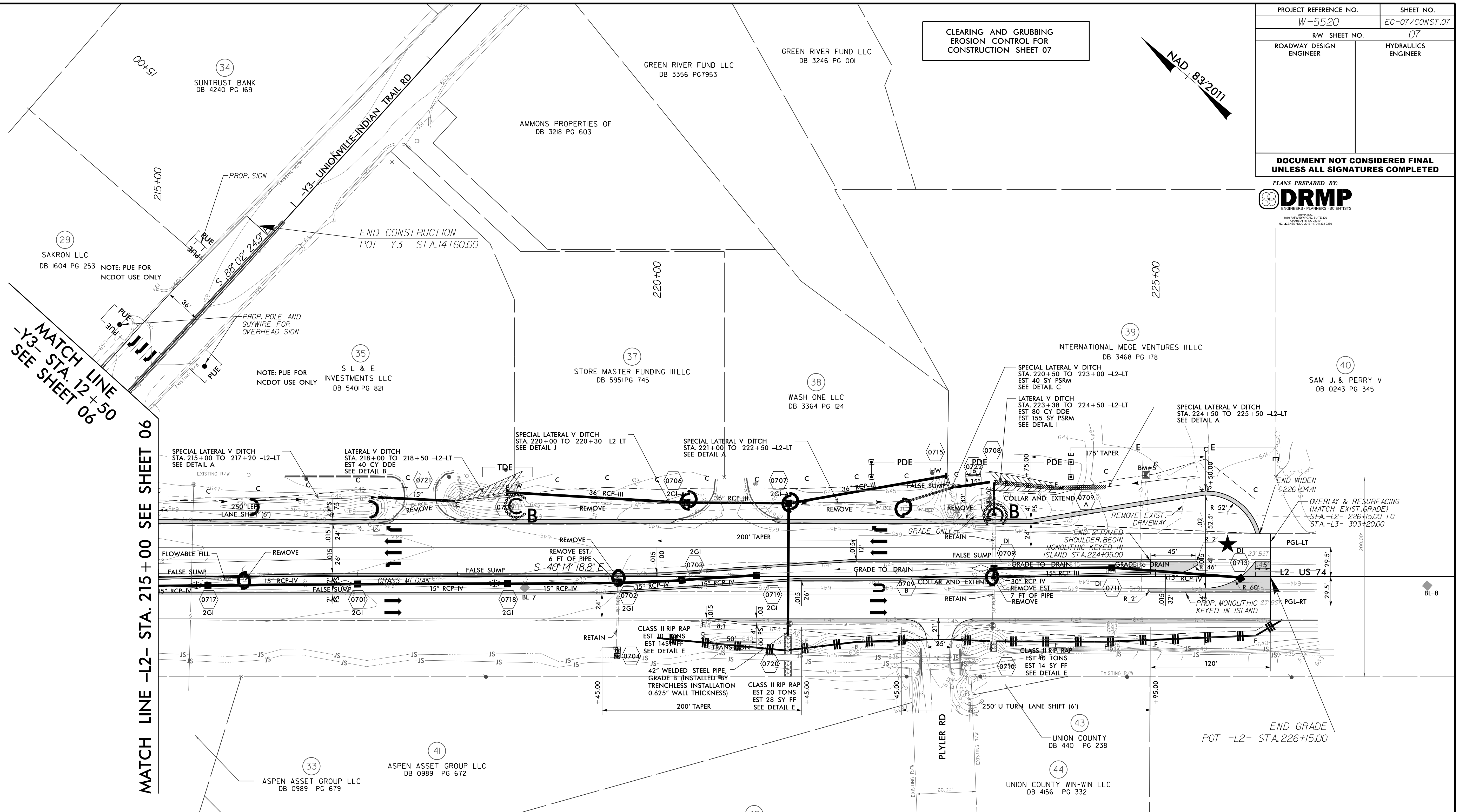
1600 PARADISE BLVD. SUITE 300
CONCORD, NC 27027
NC LICENSE NO. 02171 - 1746 300-0089

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07



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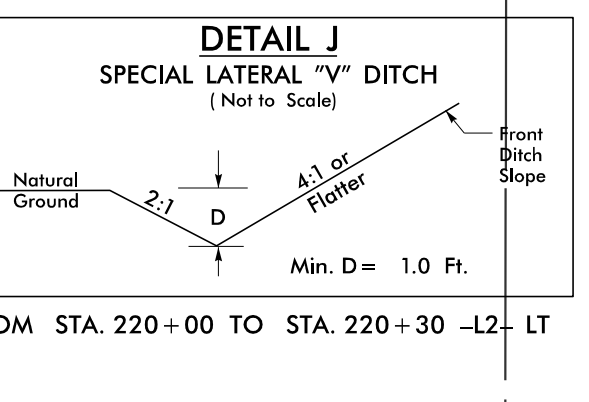
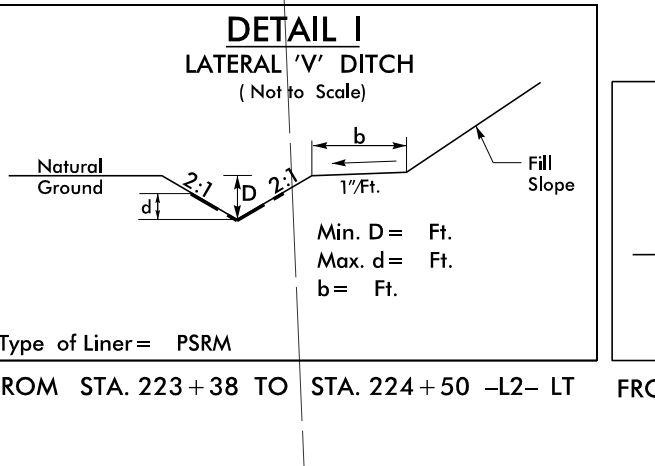
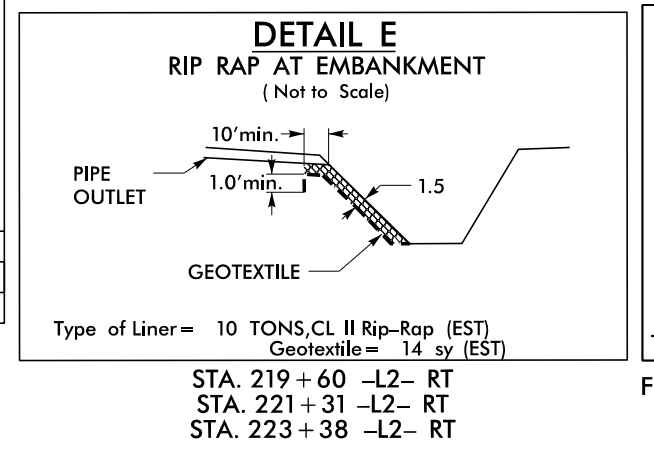


DETAIL D
FALSE SUMP
(Not to Scale)

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

S = Ditch Slope Q = Proposed Ditch

FROM STA. 215+38 -L2- MD
FROM STA. 216+87 -L2- MD
FROM STA. 218+37 -L2- MD
FROM STA. 223+25 -L2- MD



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-L3-
 PI Sta. 302+91.84
 $\Delta = 5' 18'' 16.6'' (LT)$
 $D = 0' 54'' 34.0''$
 $L = 583.27'$
 $T = 291.84'$
 $R = 6,300.00'$
 $e = EXISTING$

LOVE, JESSIE EUGENE
 & DWIGHT AUGUSTUS
 DB 540/PG 821

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 08

PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-08/CONST.08
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	08

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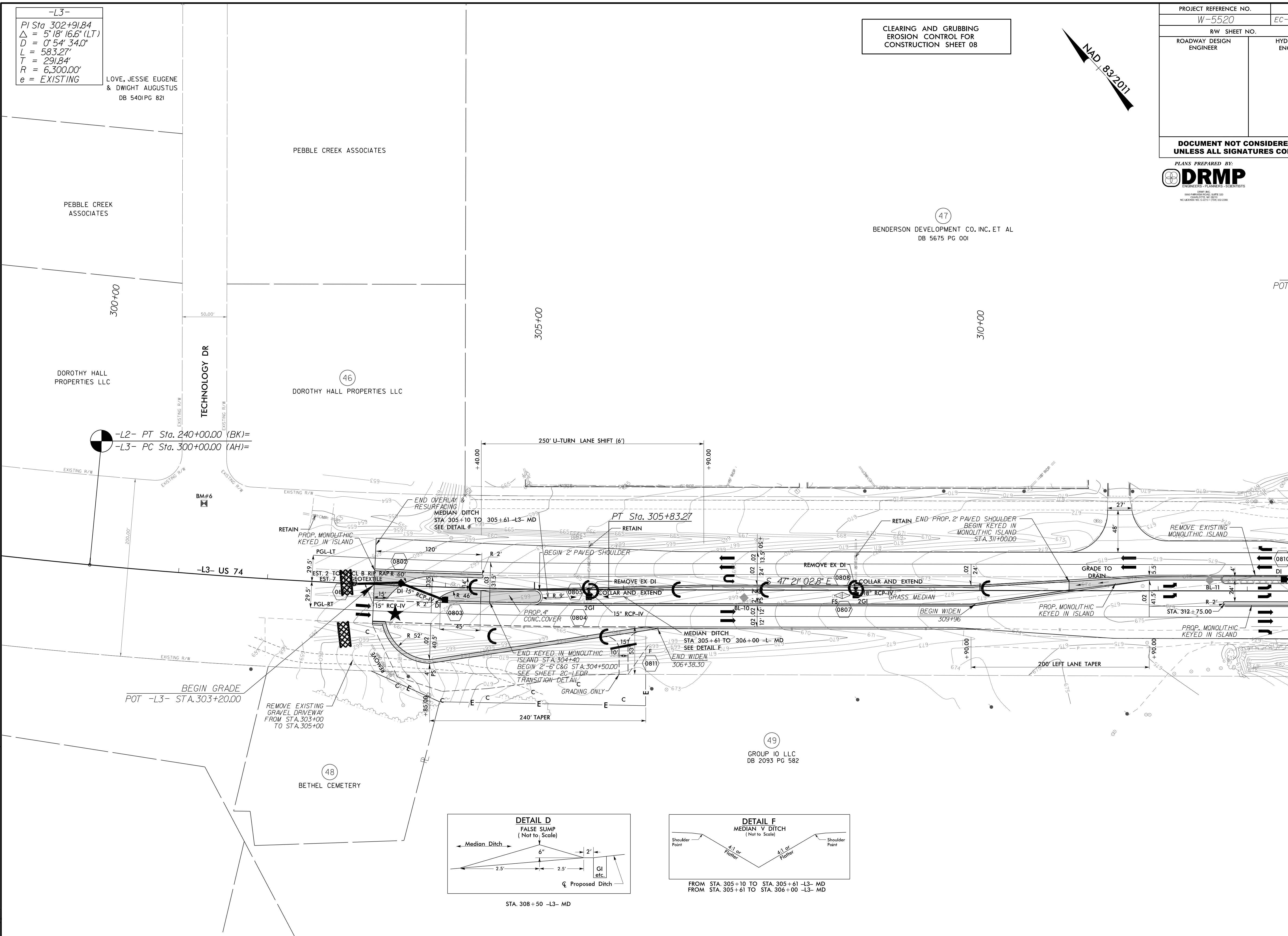


(47)
 BENDERSON DEVELOPMENT CO. INC. ET AL
 DB 5675 PG 001

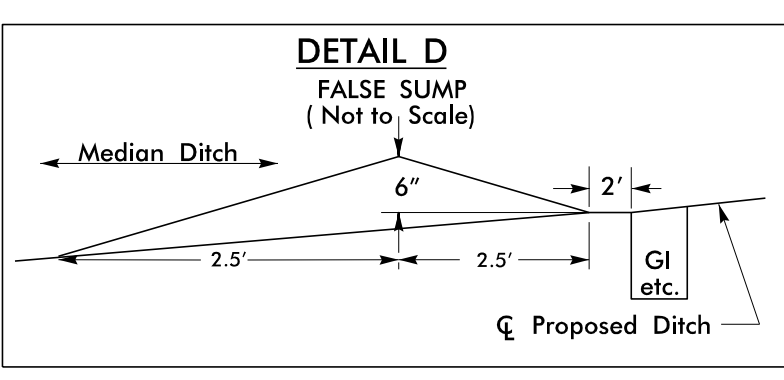
REVISIONS

8/17/99

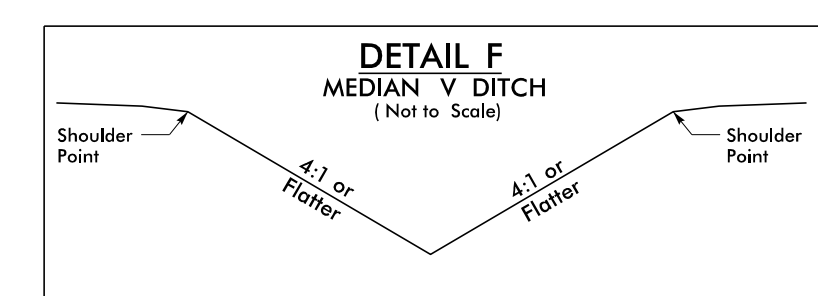
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-L2- PT Sta. 240+00.00 (BK)=
 -L3- PC Sta. 300+00.00 (AH)=



STA. 308+50 -L3- MD

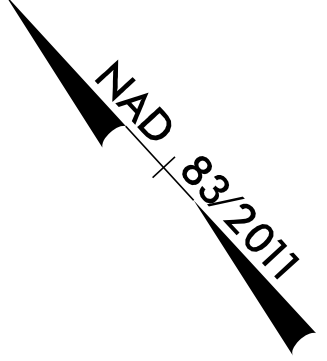


FROM STA. 305+10 TO STA. 305+61 -L3- MD
 FROM STA. 305+61 TO STA. 306+00 -L3- MD

MATCH LINE -L3- STA. 313+50 SEE SHEET 09

8/17/99

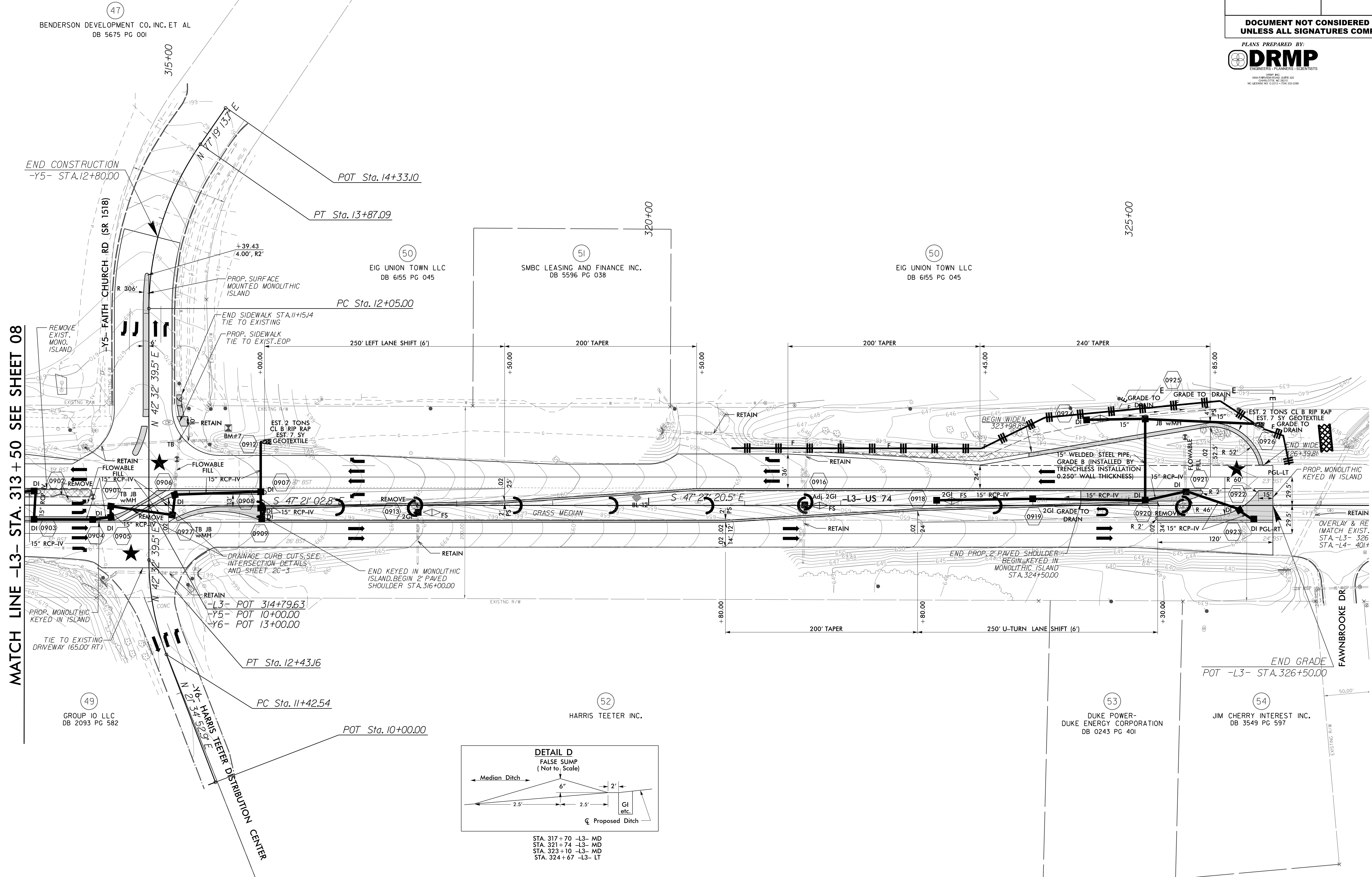
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09



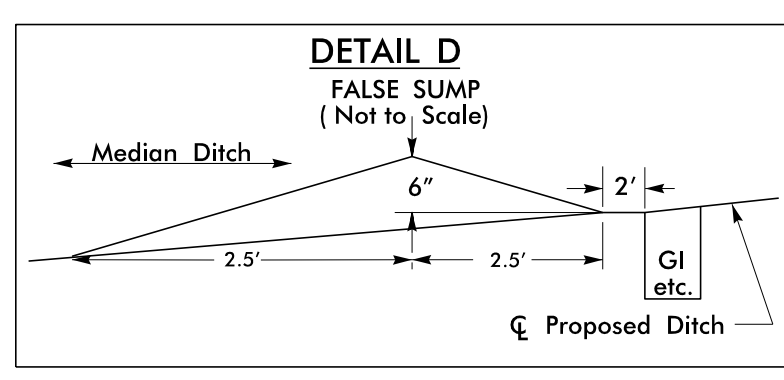
PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-09/CONST.09
R/W SHEET NO.	09
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-Y5-	-Y6-
PI Sta 12+98.95	PI Sta 11+93.42
$\Delta = 34' 46" 34.2" (RT)$	$\Delta = 20' 57" 46.6" (RT)$
$D = 19' 05" 54.9"$	$D = 20' 50" 05.4"$
$L = 182.09'$	$L = 100.61'$
$T = 93.95'$	$T = 50.88'$
$R = 300.00'$	$R = 275.00'$
$e = EXISTING$	$e = EXISTING$



MATCH LINE -L3- STA. 313 + 50 SEE SHEET 08



STA. 317+70 -L3- MD
 STA. 321+74 -L3- MD
 STA. 323+10 -L3- MD
 STA. 324+67 -L3- LT

REVISIONS

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-10/CONST.10
R/W SHEET NO.	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

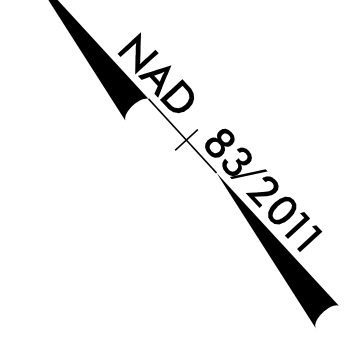
PLANS PREPARED BY:



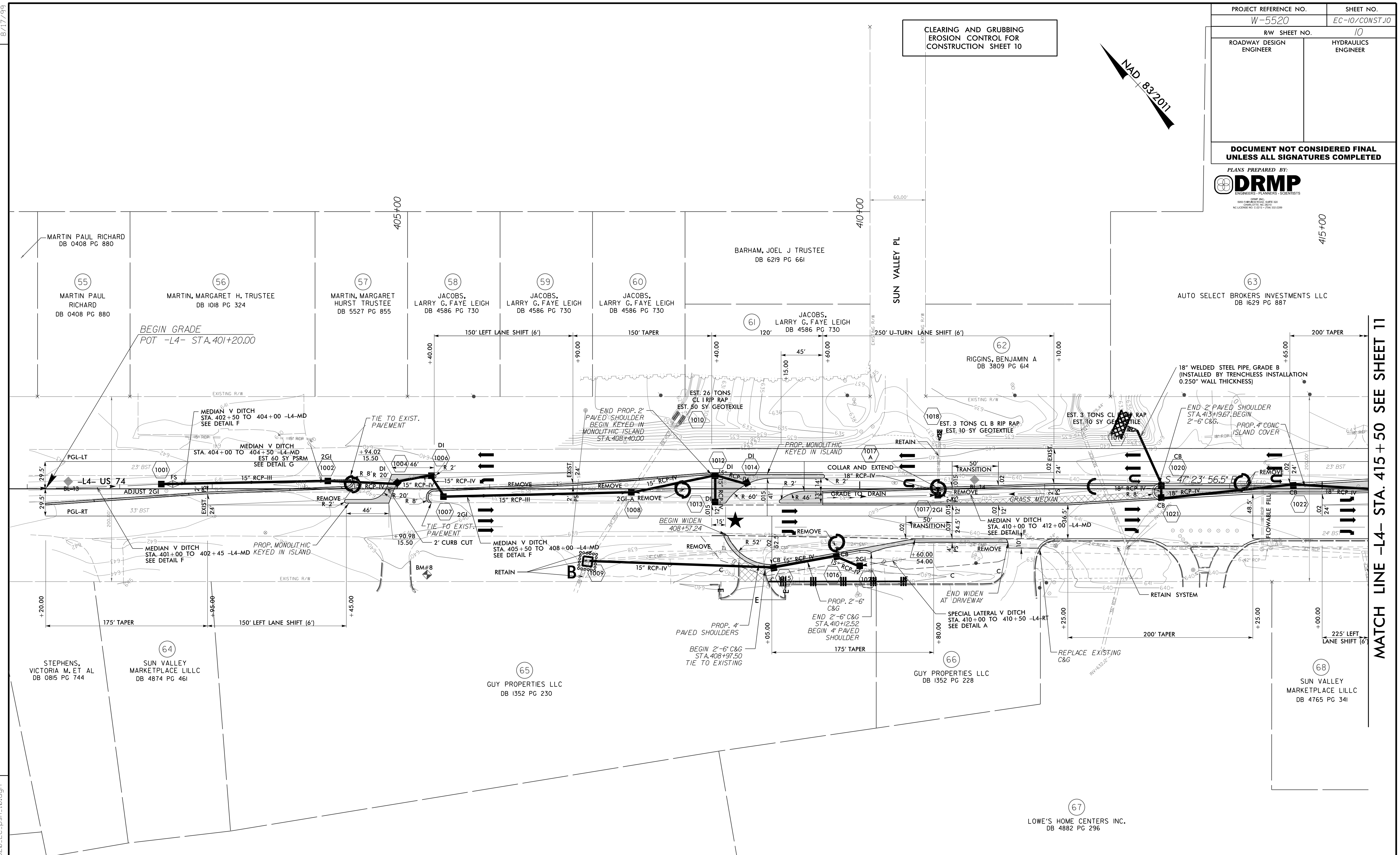
DRMP
ENGINEERS - PLANNERS - SCIENTISTS

5605 PARKWAY DRIVE, SUITE 300
COLUMBIA, SC 29203
TEL: 803/733-1100
FAX: 803/733-1101

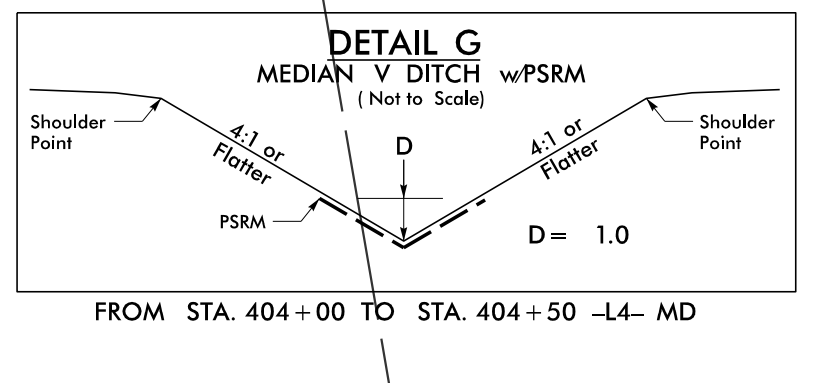
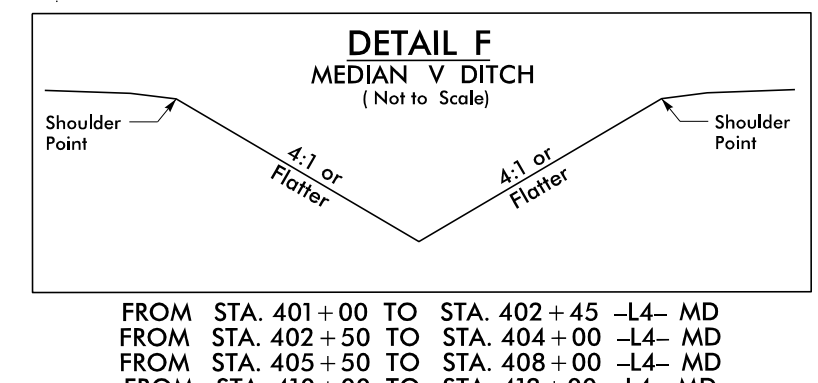
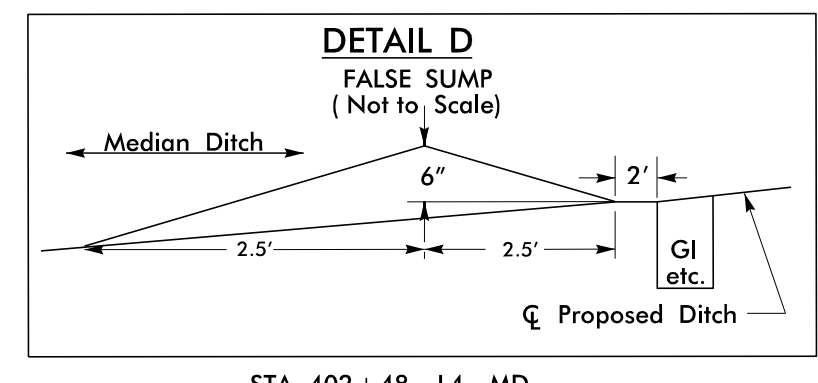
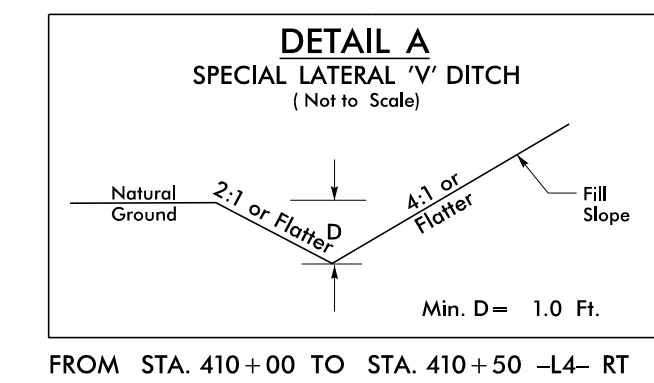
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10



REVISIONS



MATCH LINE -L4- STA. 415 + 50 SEE SHEET 11



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PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-II/CONST.II
R/W SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

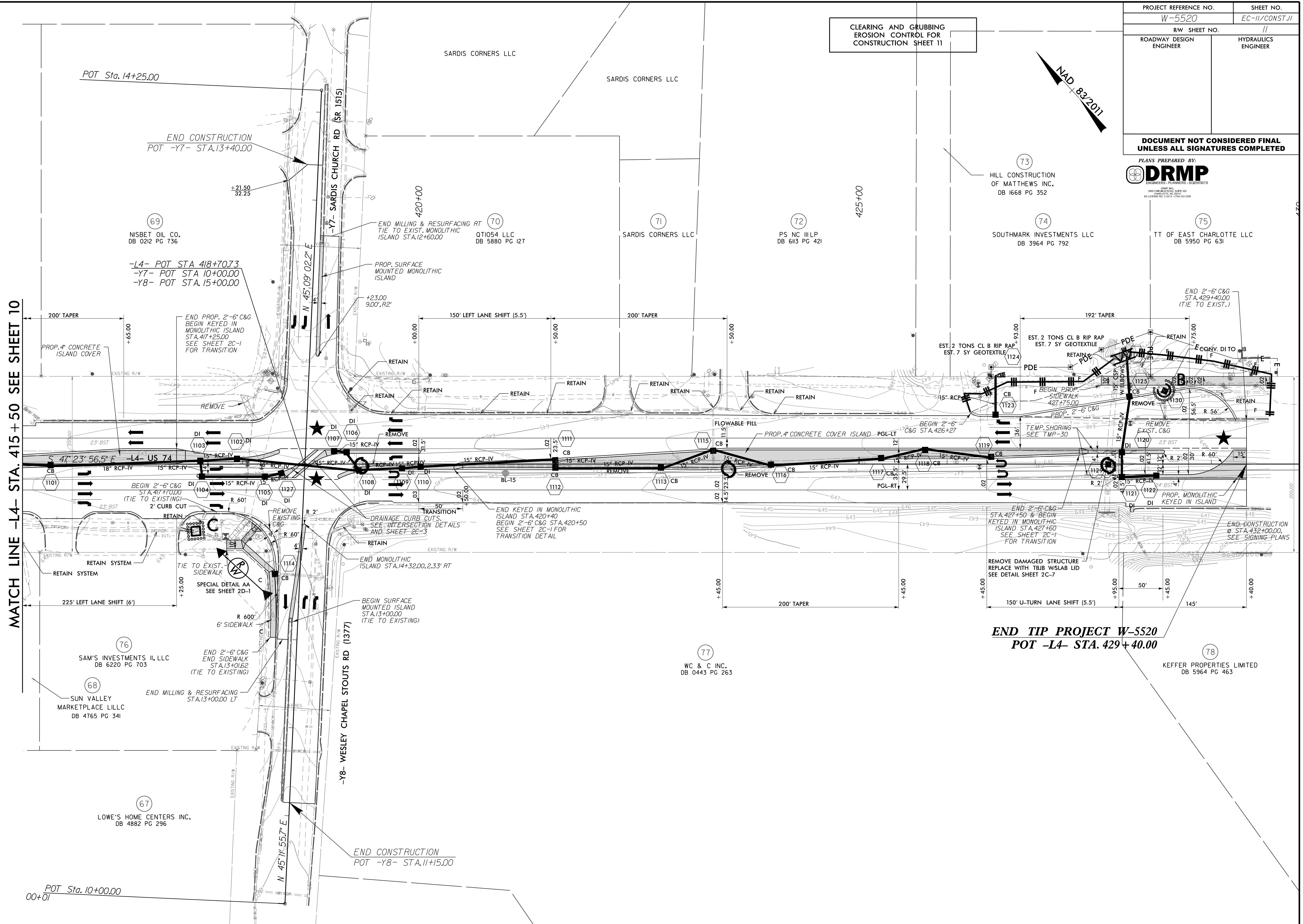
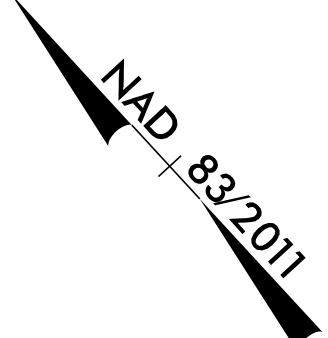
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:



DRMP
ENGINEERS - PLANNERS - SCIENTISTS
1600 PARKWAY DRIVE, SUITE 300
CHARLOTTE, NC 28203
NC LICENSE NO. C-22174 / 1746-302-0389

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11



MATCH LINE -L4- STA. 415+50 SEE SHEET 10

**END TIP PROJECT W-5520
POT -L4- STA. 429+40.00**

REVISIONS

8/17/99

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11/1/2017

POT Sta. 10+00.00
00+01

LOWE'S HOME CENTERS INC.
DB 4882 PG 296

SUN VALLEY
MARKETPLACE L'LLC
DB 4765 PG 341

SAM'S INVESTMENTS II, LLC
DB 6220 PG 703

NISBET OIL CO.
DB 0212 PG 736

-L4- POT STA 418+70.73
-Y7- POT STA 10+00.00
-Y8- POT STA. 15+00.00

END CONSTRUCTION
POT -Y8- STA. 11+15.00

-Y8- WESLEY CHAPEL STOUTS RD (1377)

-Y7- SARDIS CHURCH RD (SR 1515)

SARDIS CORNERS LLC

SARDIS CORNERS LLC

SARDIS CORNERS LLC

PS NC III LP
DB 6113 PG 421

HILL CONSTRUCTION
OF MATTHEWS INC.
DB 1668 PG 352

SOUTHMARK INVESTMENTS LLC
DB 3964 PG 792

TT OF EAST CHARLOTTE LLC
DB 5950 PG 631

WC & C INC.
DB 0443 PG 263

KEFFER PROPERTIES LIMITED
DB 5964 PG 463

OT1054 LLC
DB 5880 PG 127

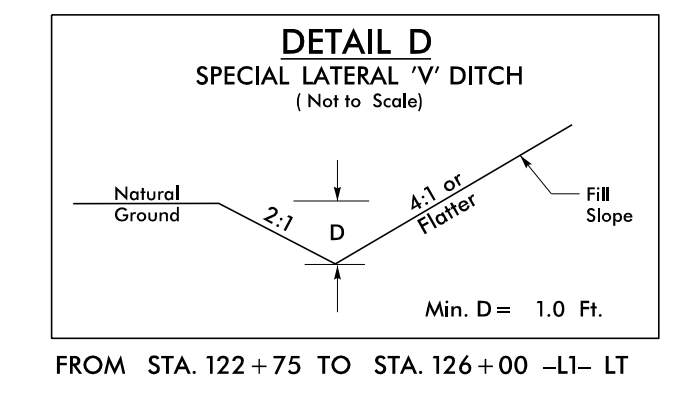
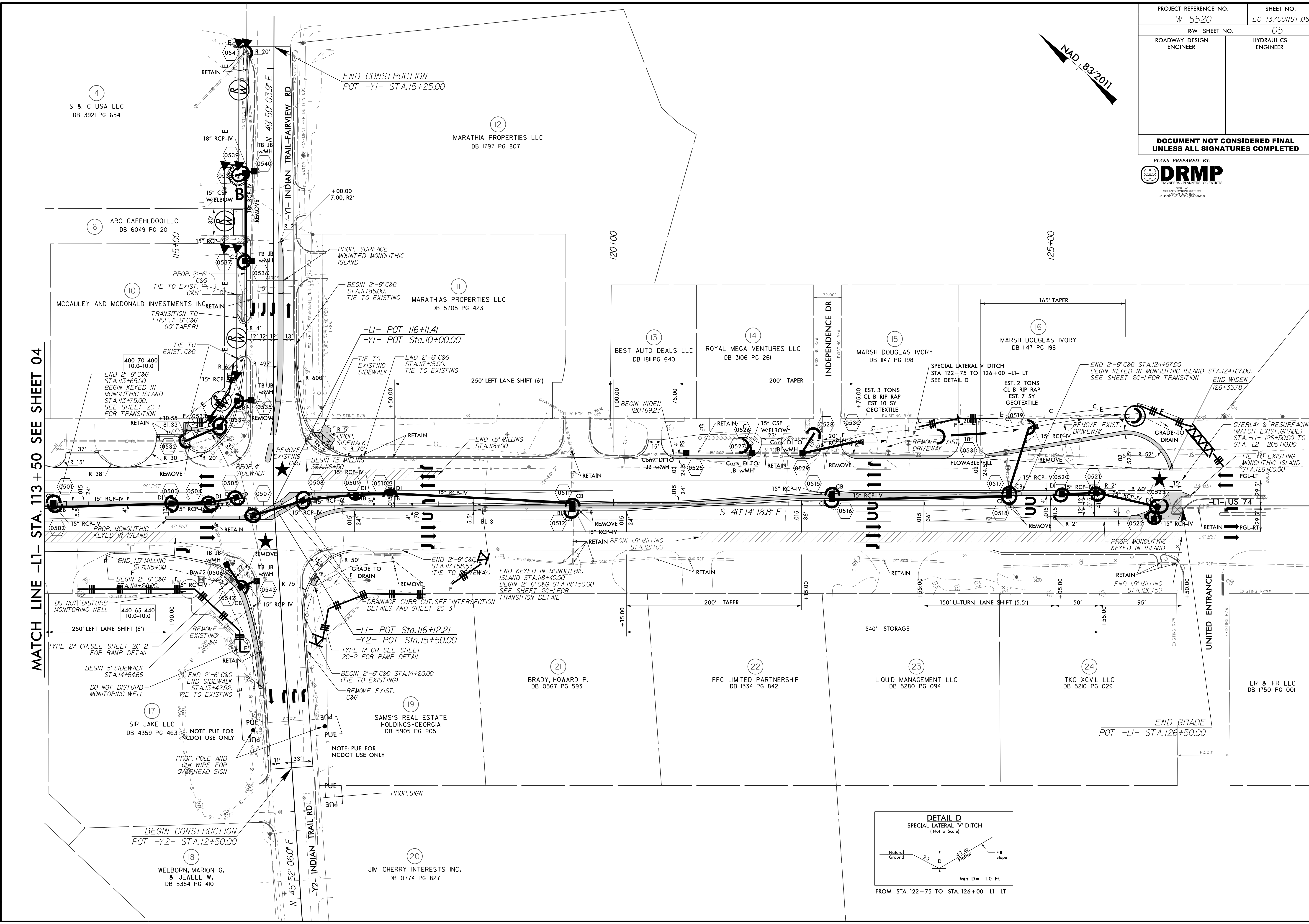
PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-13/CONST.05
RW SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PLANS PREPARED BY:



DRMP
ENGINEERS - PLANNERS - SCIENTISTS



FROM STA. 122+75 TO STA. 126+00 -LI- LT

REVISIONS

MATCH LINE -LI- STA. 113+50 SEE SHEET 04

BEGIN CONSTRUCTION
POT -Y2- STA.12+50.00

END GRADE
POT -LI- STA.126+50.00

8/17/99

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-DRVI-
 PI Sta 5+66.13
 $\Delta = 46^\circ 57' 34.3" (RT)$
 $D = 79' 34' 38.9"$
 $L = 59.0'$
 $T = 31.28'$
 $R = 72.00'$
 e = EXISTING

PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-14/CONST.06
RW SHEET NO.	06
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

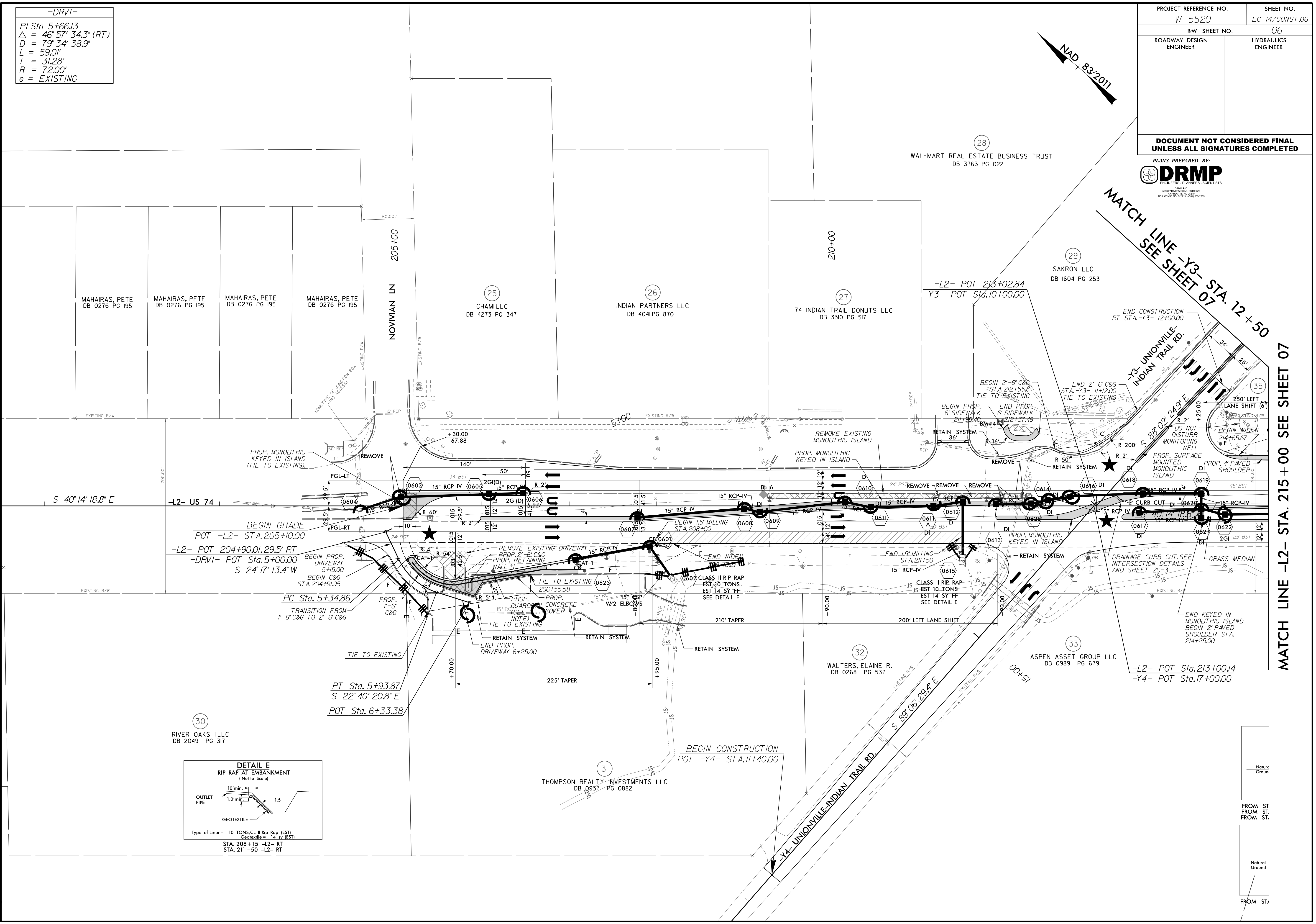
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



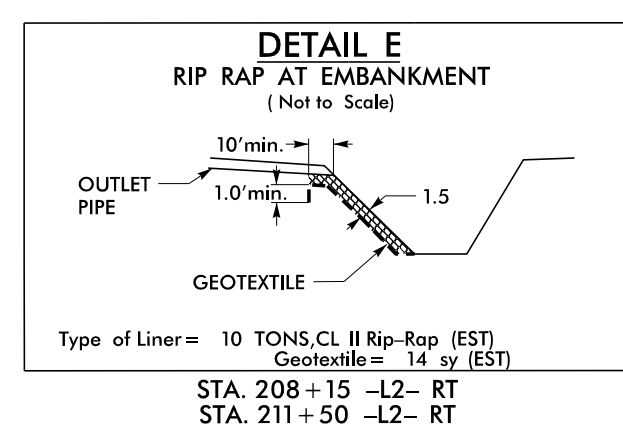
MATCH LINE -Y3- STA. 12+50
 SEE SHEET 07

MATCH LINE -L2- STA. 215+00 SEE SHEET 07

REVISIONS



30 RIVER OAKS I LLC
 DB 2049 PG 317



31 THOMPSON REALTY INVESTMENTS LLC
 DB 0937 PG 0882

32 WALTERS, ELAINE R.
 DB 0268 PG 537

33 ASPEN ASSET GROUP LLC
 DB 0989 PG 679

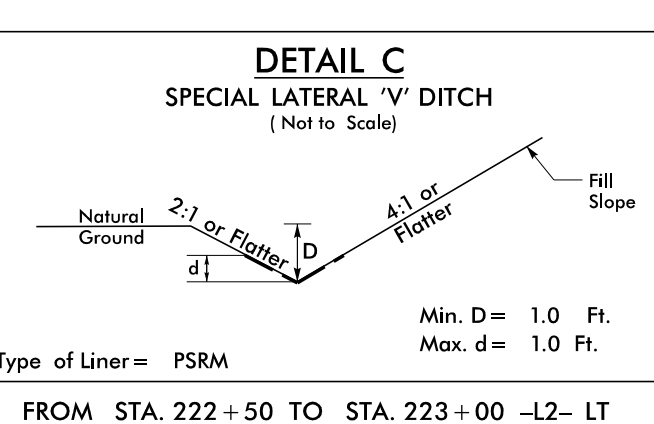
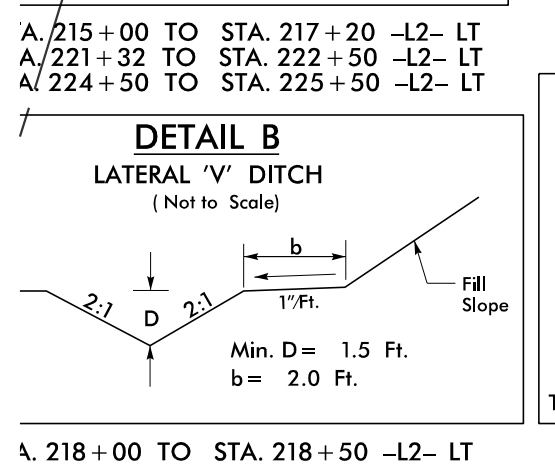
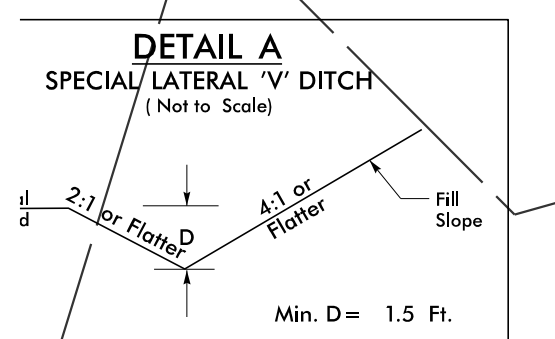
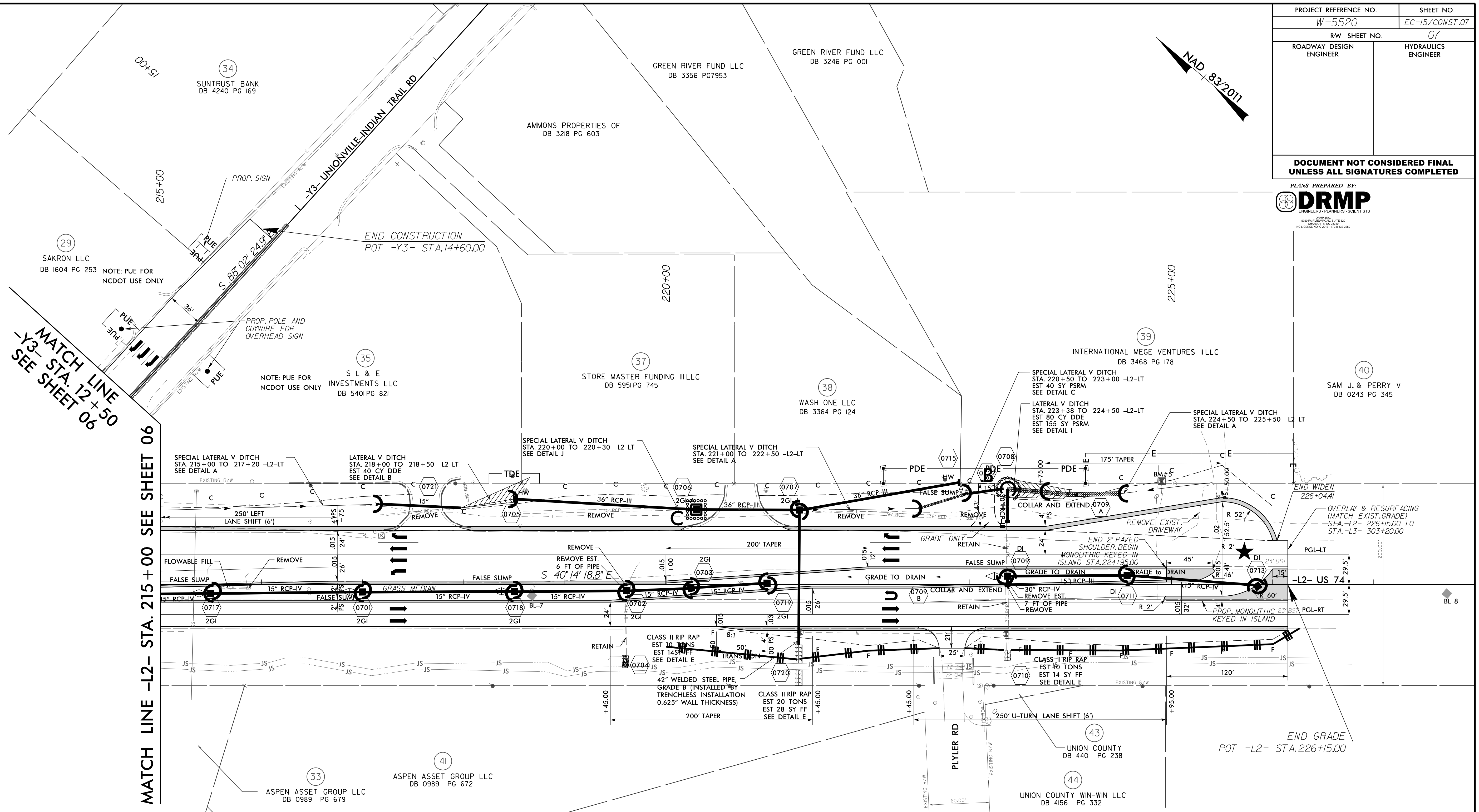
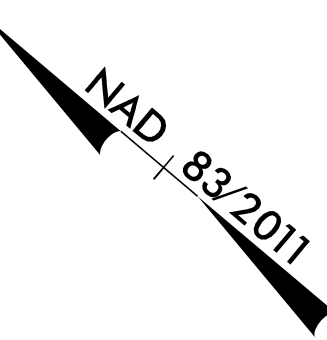
-L2- POT Sta. 213+00.14
 -Y4- POT Sta. 17+00.00



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 12/3/2017

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PLANS PREPARED BY:
DRMP
ENGINEERS - PLANNERS - SCIENTISTS

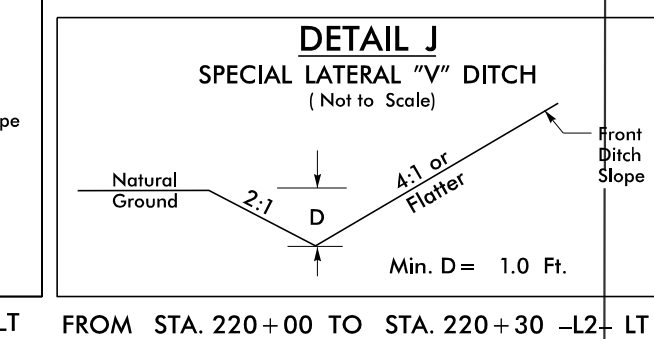
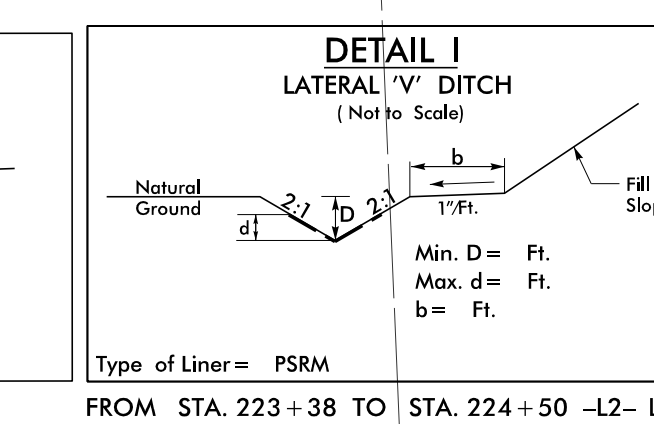
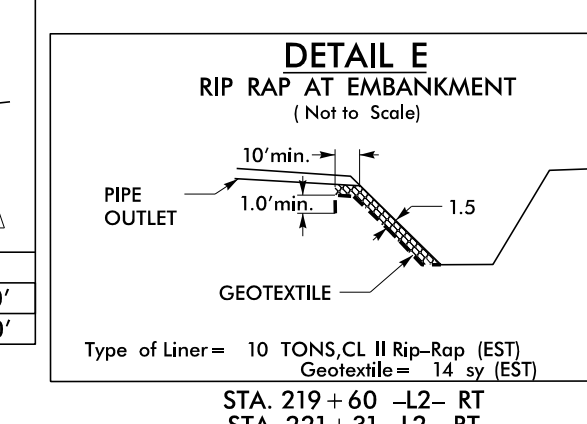


DETAIL D
FALSE SUMP
(Not to Scale)

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

S = Ditch Slope C = Proposed Ditch

FROM STA. 215+38 -L2- MD
FROM STA. 216+87 -L2- MD
FROM STA. 218+37 -L2- MD
FROM STA. 223+25 -L2- MD



REVISIONS

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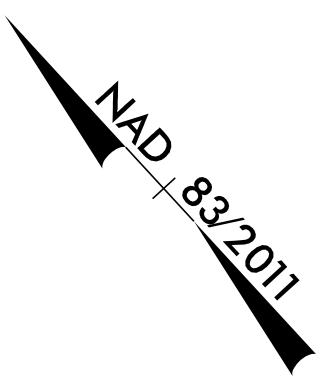
MATCH LINE
-Y3- STA. 12+50
SEE SHEET 06

MATCH LINE -L2- STA. 215+00 SEE SHEET 06

END GRADE
POT -L2- STA. 226+15.00

PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-16/CONST.08
R/W SHEET NO.	08
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



-L3-
 PI Sta. 302+91.84
 $\Delta = 5' 18' 16.6''$ (LT)
 $D = 0' 54' 34.0''$
 $L = 583.27'$
 $T = 291.84'$
 $R = 6,300.00'$
 e = EXISTING

LOVE, JESSIE EUGENE
 & DWIGHT AUGUSTUS
 DB 540/PG 821

PEBBLE CREEK ASSOCIATES

PEBBLE CREEK ASSOCIATES

(47)
 BENDERSON DEVELOPMENT CO. INC. ET AL
 DB 5675 PG 001

(46)
 DOROTHY HALL PROPERTIES LLC

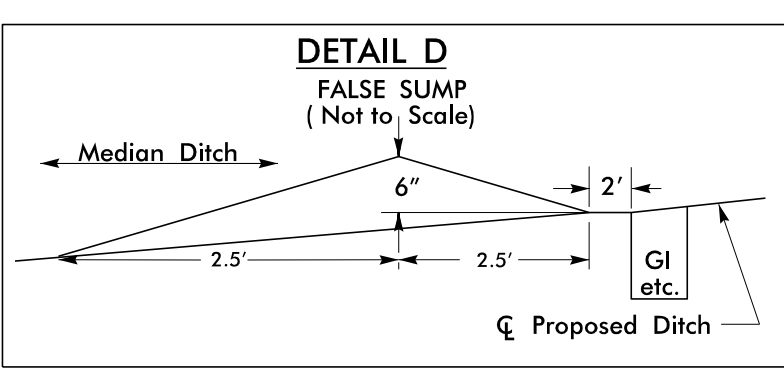
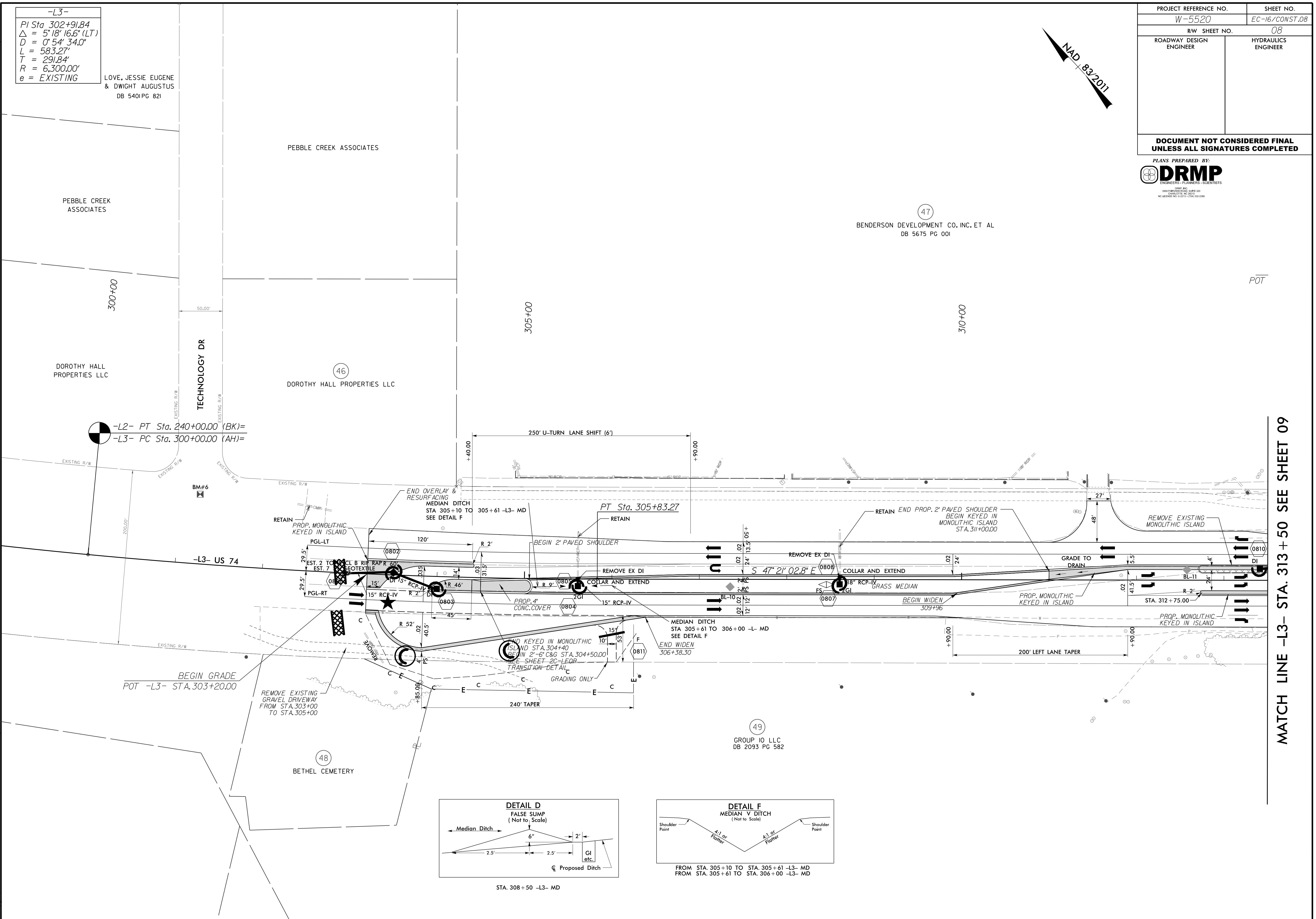
DOROTHY HALL PROPERTIES LLC

(48)
 BETHEL CEMETERY

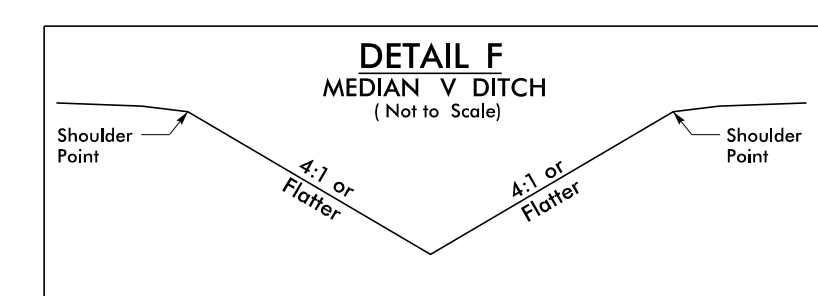
REVISIONS

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STA. 308 +50 -L3- MD

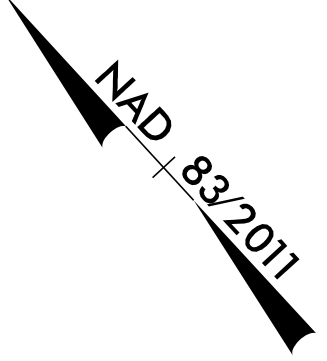


FROM STA. 305+10 TO STA. 305+61 -L3- MD
 FROM STA. 305+61 TO STA. 306+00 -L3- MD

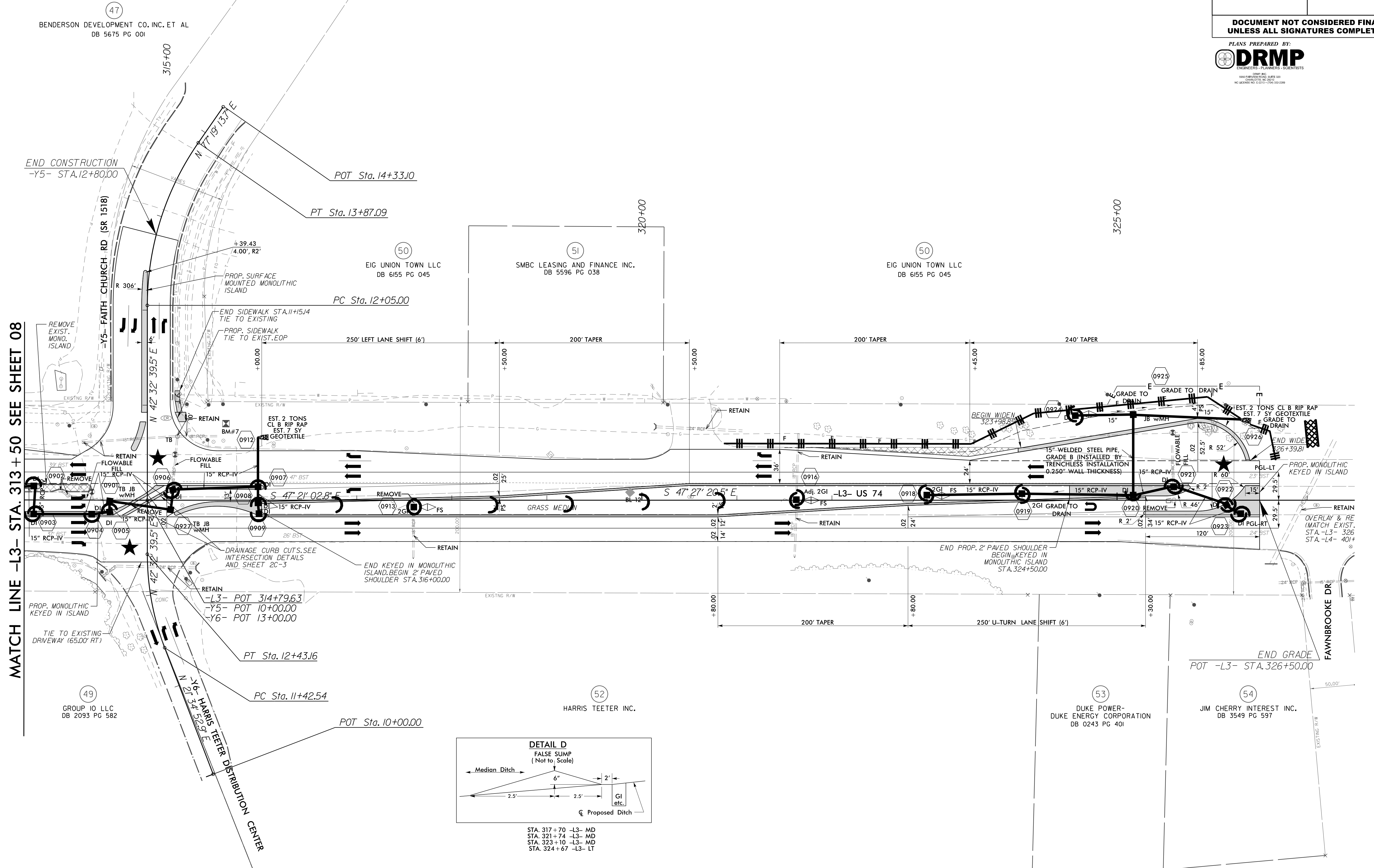
MATCH LINE -L3- STA. 313 +50 SEE SHEET 09

PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-17/CONST.09
R/W SHEET NO.	09
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

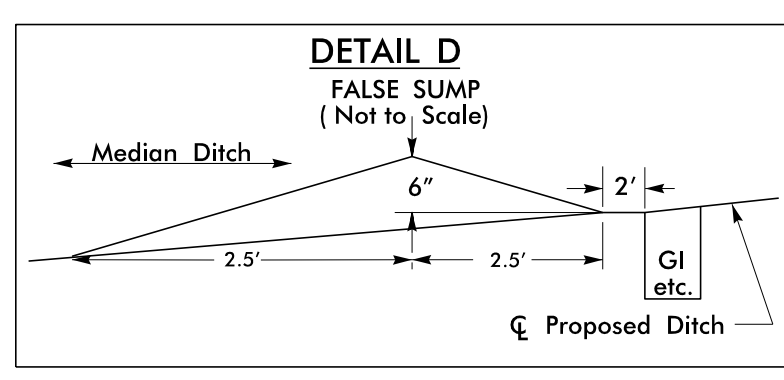


-Y5-	-Y6-
PI Sta 12+98.95	PI Sta 11+93.42
$\Delta = 34' 46'' 34.2''$ (RT)	$\Delta = 20' 57'' 46.6''$ (RT)
$D = 19' 05'' 54.9''$	$D = 20' 50'' 05.4''$
$L = 182.09'$	$L = 100.61'$
$T = 93.95'$	$T = 50.88'$
$R = 300.00'$	$R = 275.00'$
$e = \text{EXISTING}$	$e = \text{EXISTING}$



MATCH LINE -L3- STA. 313 + 50 SEE SHEET 08

REVISIONS



STA. 317+70 -L3- MD
 STA. 321+74 -L3- MD
 STA. 323+10 -L3- MD
 STA. 324+67 -L3- LT

8/17/99
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PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-18/CONST.10
R/W SHEET NO.	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

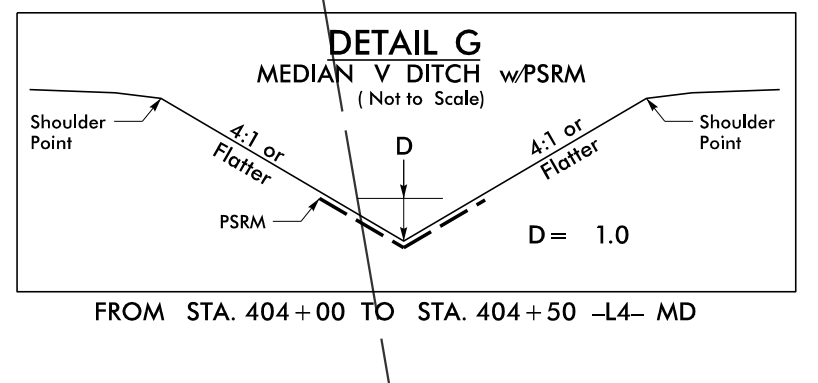
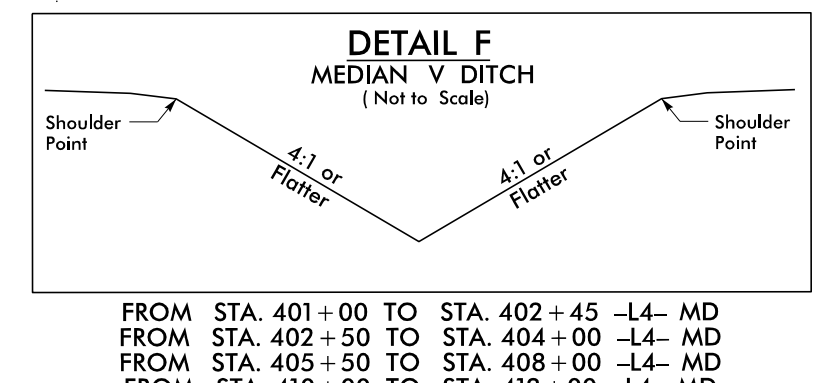
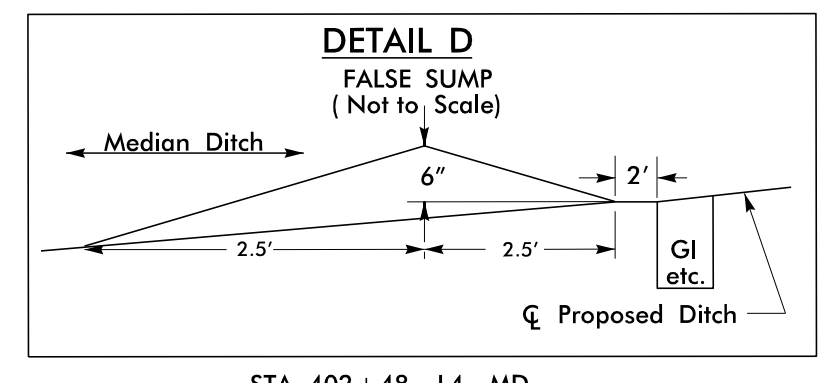
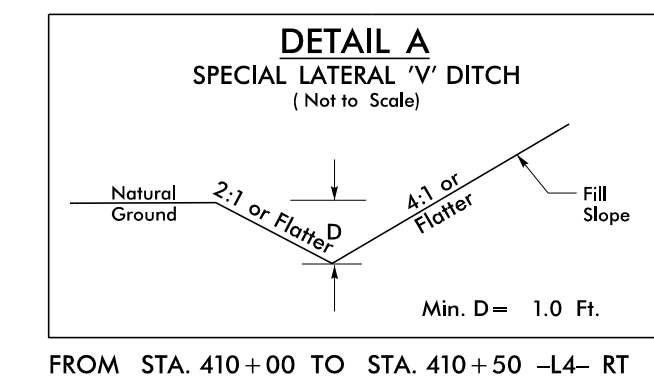
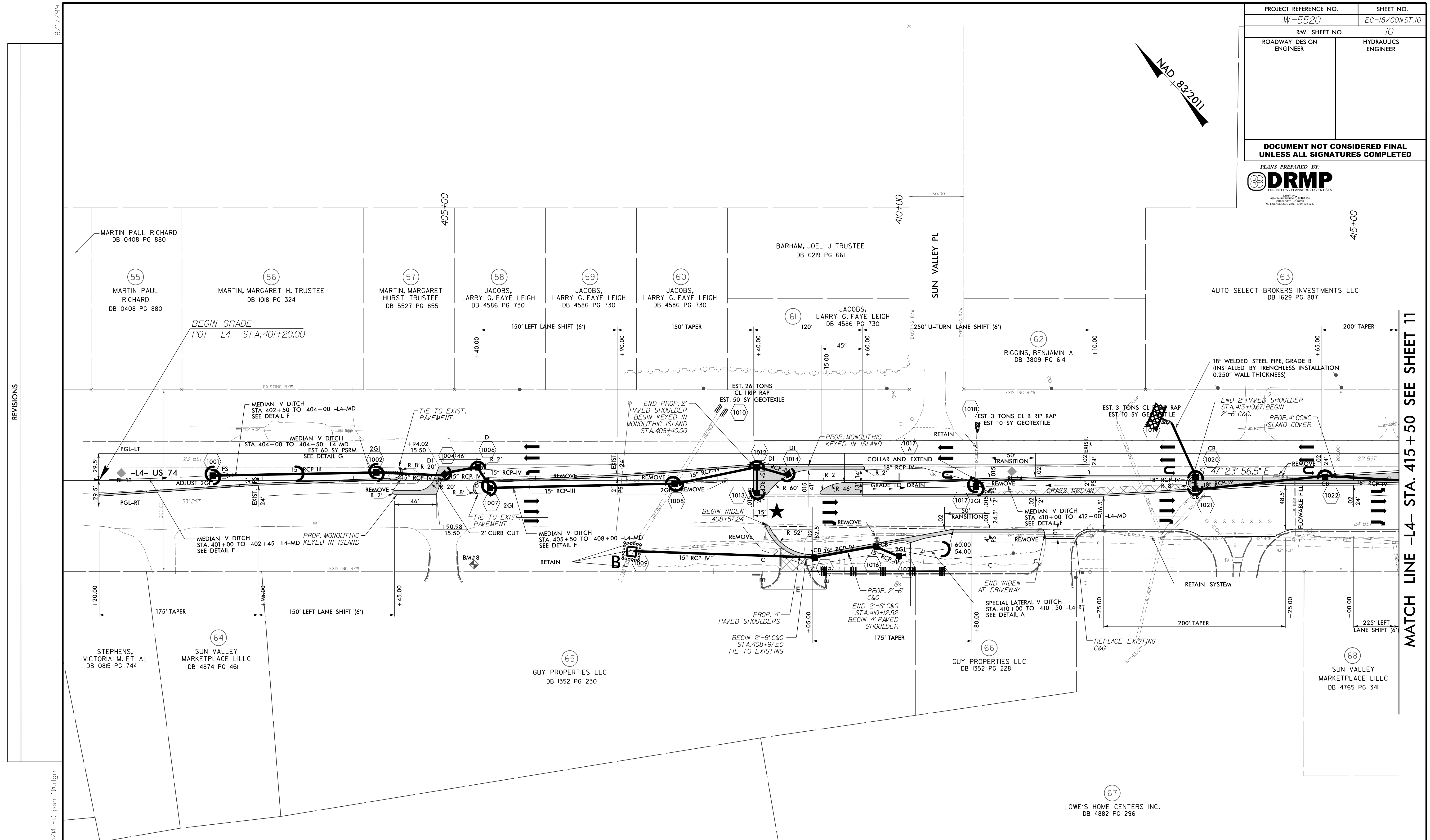
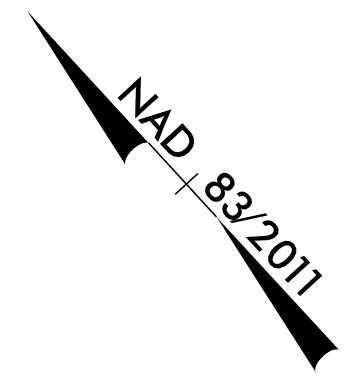
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:



DRMP
ENGINEERS - PLANNERS - SCIENTISTS

5605 PARKWAY DRIVE, SUITE 300
COLUMBIA, SC 29203
TEL: 803-733-1100
FAX: 803-733-1101



8/17/99

REVISIONS

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MATCH LINE -L4- STA. 415 + 50 SEE SHEET 11

PROJECT REFERENCE NO.	SHEET NO.
W-5520	EC-19/CONST.II
RW SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

 DRMP
 ENGINEERS - PLANNERS - ARCHITECTS
 1600 PARKWAY DRIVE, SUITE 300
 CHARLOTTE, NC 28210
 TEL: 704.366.1000
 FAX: 704.366.1001
 LICENSE NO. 002174 - (P&E) 302-0189

(73) HILL CONSTRUCTION OF MATTHEWS INC. DB 1668 PG 352
 (74) SOUTHMARK INVESTMENTS LLC DB 3964 PG 792
 (75) TT OF EAST CHARLOTTE LLC DB 5950 PG 631

(69) NISBET OIL CO. DB 0212 PG 736
 (70) OT1054 LLC DB 5880 PG 127
 (71) SARDIS CORNERS LLC
 (72) PS NC III LP DB 6113 PG 421

(76) SAM'S INVESTMENTS II, LLC DB 6220 PG 703
 (68) SUN VALLEY MARKETPLACE L'LLC DB 4765 PG 341
 (67) LOWE'S HOME CENTERS INC. DB 4882 PG 296

(77) WC & C INC. DB 0443 PG 263
 (78) KEFFER PROPERTIES LIMITED DB 5964 PG 463

(79) SARDIS CORNERS LLC
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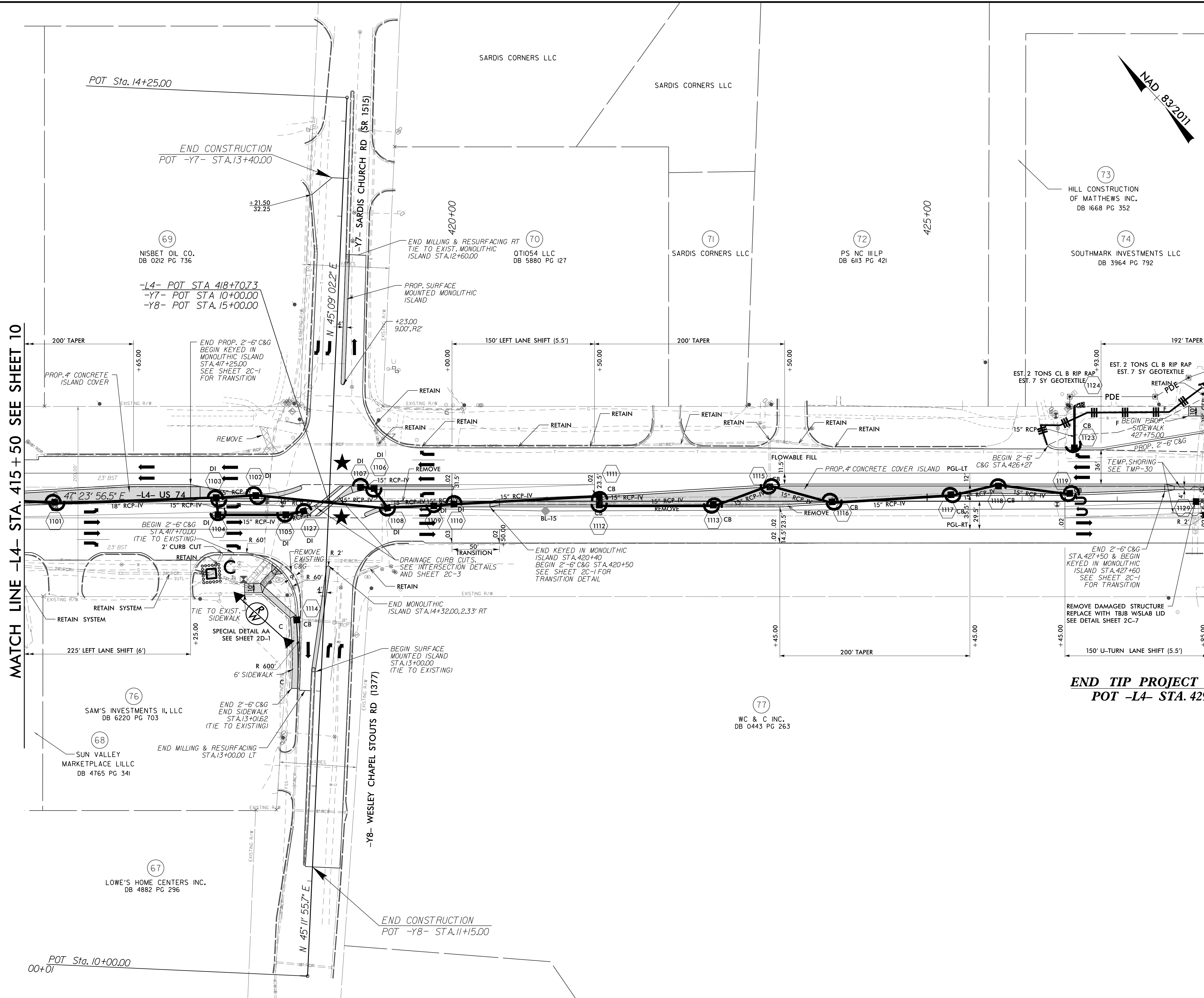
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(123) SARDIS CORNERS LLC
 (124) SARDIS CORNERS LLC
 (125) SARDIS CORNERS LLC
 (126) SARDIS CORNERS LLC



MATCH LINE -L4- STA. 415+50 SEE SHEET 10

**END TIP PROJECT W-5520
 POT -L4- STA. 429+40.00**

REVISIONS

8/17/99

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