May 17,2013

R-3620 NEU Narrative

Utility Owners:

Power (Distribution):	Dominion Power- contact:	Clarence Wall (252) 308-1021 clarence.wall@dom.com
Power (Transmission):	Dominion Power- contact:	Kyle A. Keno, P.E. (804) 771-3548 Kyle.a.keno @dom.com
Telephone:	Century Link- contact:	Jeffrey Williamson (252)-814-7244 Jeffrey.williamson@Centurylink.com
CATV:	Mediacom – contact:	Nate Harris (252) 482-8089 nharris@mediacomcc.com
Water:	Washington County Water – contact:	Jerry W. Rhodes (252) 793-5823 jrhodes@washconc.org

General Utility Relocation:

All utility lines inside project limits currently within construction limits will be adjusted as necessary or relocated away from construction before project let.

Existing Utilities:

- **Power** (Distribution): existing power lines run overhead on poles along the left side and crosses to the right side ofthe project from NC 64 to-Y-line Beasley Rd (SR 1139) and crossing back to the left along the-Y-line (SR 1139). In addition, the existing power lines run overhead on poles along the left side at the north end of the project parallel to -Y1- NC 32 to NC 94.

- **Power** (transmission): existing transmission power lines are not in conflict with this project.

- **Telephone:** existing telephone lines run underground left and right of the existing section of the road for this project.

- **CATV:** existing CATV runs overhead right ofNC 94 and crosses over to the left ofNC 94 at the north end of the project.

- **Water:** existing water lines at the north end ofthe project parallel to -Y1- NC 32 and NC94.

Proposed Utility Relocation:

- **Power(**distribution): Overhead power lines and power poles will relocate to a position starting at the left side of the project and crossing to the right side of the project from NC 64 to-Y-line Beasley Rd (SR 1139) and on the left side at the north end of the project parallel to -Y1- NC 32 to NC 9.

- **Power(**transmission): existing transmission power lines run over the proposed portion of the road for this project and are not in conflict.

- **Telephone:** proposed telephone line will attach to overhead Uoint-use) poles with power from NC 64 to-Y-line Beasley Rd (SR 1139) and on the left side at the north end ofthe project parallel to -Yl- NC 32 to NC 94. In addition, proposed telephone will relocate underground by open cut parallel to the right side of existing NC 94 and by trenchless method to the right ofNC 32/94 at the north end of the project.

- **CATV:** proposed CATV lines will also attach to the power pole line Uoint-use) at the north end of the project.

- **Water:** Existing water lines are not in conflict, they will remain in place.

See Sheet 1-A For Index of Sheets
See Sheet 1-8 For Corrventionol Symbols

STATE OF NORTH CAROJLKNA
DIVISION OF HIGHWAYS

WASHINGTON COUNTY

STATE PROJECT REFERENCE NO.		SHEET NO.	TOTAL SHEETS
N.C. R-3620		1	
STATE PROJ.NO.		DESCRIPTION	
34548.1.1	STP-0005 252	PE	
34548.2.1	STP-0005 252	PIW & UTIL	

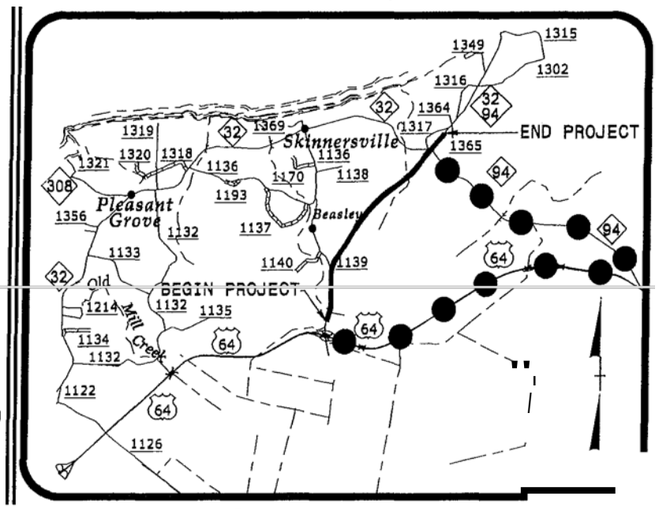
LOCATION: NEW ROUTE FROM US 64 TO NC 32

TYPE OF WORK: GRADING,PAVING, DRAINAGE, ITS (ON US 64), AND CULVERT

Utility Permit Drawjng
Sheet_/ _of_l_t_

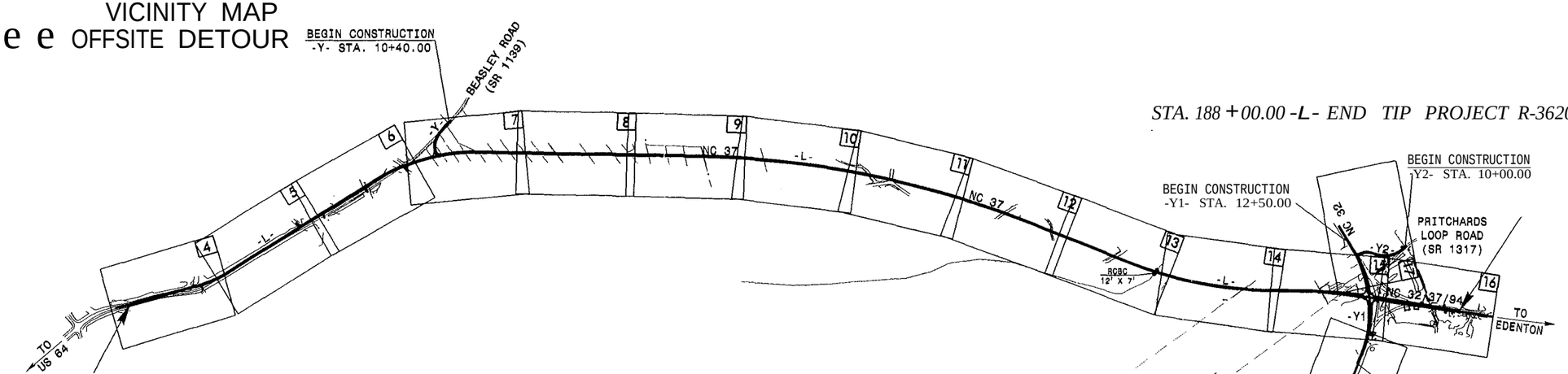
NEU PERMIT PLANS
(May 17,2013)

TIP PROJECT: R-3620



VICINITY MAP

e e e OFFSITE DETOUR



STA.12 + 00.00 -L- BEGIN TIP PROJECT R-3620

STA. 188 + 00.00 -L- END TIP PROJECT R-3620

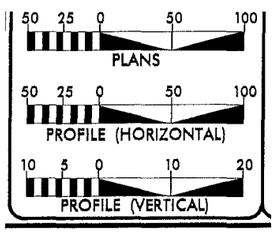
THIS IS A LIMITED AND PARTIAL CONTROL OF ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2014 = 3250
ADT 2035 = 5200
DHV = 10 %
D = *60* %
T = 7 % *
V = *60* MPH
• TIST =3 DUAL *4*
FUNC CLASS = COLLECTOR
REGIONAL TIER

PROJECT LENGTH

TOTAL LENGTH TIP PROJECT R-3620 3.33 miles

Prepared In tte Office of:
DIVISION OF HIGHWAYS
1000 Birch Rid11 Dr., Ralli1h NC, 27610

2012 STANIMRD SPBCIPICATIONS

RIGHT OF WAY DATE: JUNE 29. 2012

LEITING DATE: JUNE 17, 2014

GARY LOVERING, PE
PROJECT ENGINBIIR

KEVIN E. MOORE, PE
PROJECT DESIGN BNGINEER

HYDRAUUCS ENGINEER

P.E.
SIGNATURE:

ROADWAY DESIGN ENGINEER

P.E.
SIGNATURII.·

NORTH CAROLINA · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION

PROJECT REFERENCE NO.	SHEET NO.
R-3620	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NEU PERMIT PLANS (May 17,2013)

NAD 83

PhAN CALE:
1 =50 (FULL·SIZE)
1"=100' (HALF·SIZ!:)

PAVEMENT REMOVAL

Utility Perwit Drawing
Sheet_fA_otL

SITE 1
- HAND CLEARING (ACRES)= 0.228
- FILL IN WETLAND (ACRES)< 0,01
THREE POWER POLES

CENOTES HAND CLEARING

Wfl2 CENOTES FILL IN WETLAND

8/17/99

REVISIONS
MODIFIED EXISTING R/W AND PROPOSED R/W ON PARCEL 001
07/24/2012 R/W REVISION (KEM)

25-NOV-2013 16:37
N:\Highway Engineering\UCVProj\NEU\R3620_Rdy_psh_04.dgn
$$$$USER

EYERIIAEUSEI!
08 317 PG 323

JOINT USE 0/H POW & TEL

-L- POT Sta. 10+00.00

-L- PC Sta.20+55.00

BEG. FENCE

WOODS

SMALL PINES

WOVEN WIRE FEI<CE

CL I RIP RAP BANKS ONLY 33 TONS GEOTEXTILE 62 SY

SR 1139 BEASLEY RD

N 16° 37' 160" E

TIE TO EXISTING DITCH

3.0' BASE DITCH SEE DETAIL A DDE = 756 CY

REM

N 25°23'04" E CHORD 75.98'

N 24°21'41" E CHORD 71.53'

N 01°31'43" E CHORD 70.22'

N 01°40'48" E CHORD 77.48'

REMOVE

RETAIN

ACCESS POINT

5.0' BASE HEAD DITCH SEE DETAIL E DDE EST. 135 CY

BEG. FENCE BEG. PARTIAL C/A LT. & RT.

BEGIN TIP PRO 'ECT R-3620
-L- POT STA.12+00.00

CD
WEYERHAEUSER
08 317 PG 323

MATCHLINE SEE

NEU PERMIT PLANS
(May 17, 2013)

NAD 83

-L- CURVE DATA
Pl Sta. 80098
I = 1f 047" (LTJ
O ,. 3"49' flU
L = 448.58'
T ,. 225.98'
R .. t.SOOIX!

WEYERHAEUSER
1)8 317 P() 323

DENOTES HAND CLEARING

DENOTES FILL IN WETLAND

SITE 2

HAND CLEARING
(ACRES)= 0.3318

- FILL IN WETLAND
(ACRES)<0.01
TWO POWER POLES

HAND CLEARING
0.0130
0.2793
0.0395
0.3318

PbAN CALE:
1"=50 (FULL·SIZE)
1 11=100'(HALF·SIZE)

PAVEMENT REMOVAL

Utility Permit Drawing
Sheet_d_ot_LL-=.

-L- PT Sta.25+OJ,58

WOVI!I< WIIt!I
f!I<C!

'IIR..8

0/H POW & TEL

CD
IEYERHAEUSER
08 317 P() 323

25-NOV-2013 15:21
R:\UTILITIES\Drawings\

PROJECT REFERENCE NO.	SHEET NO.
B-3620	5
NW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

8/17/99

REVISIONS

04/09/2013 R/W REVISION (KEM) - CHANGED NAME TO KATHLEEN V. SNELL ON PARCEL 02

B3620_psh_05.dgn

MATCHLINE -L- STA.24+00.00
SEE SHEET 4

MATCHLINE -L- STA.38+00.00
SEE SHEET 6

SMALL PINES

REM

-L-

N 0° 30' 48.6" W

EXISTING R/W

JOINT-USE

2

KATHLEEN V. SNELL
DB 278 PG 443

QfiALL...B.
LATIHW. 'V' DITCH
(No! to Se lt)

j_

Mln.D•l,O ft,
b•M "·

'ROM STA. TO STA.
-L- 47+55 RT TO 48+70 RT
-L- 51+44 AT TO 89+35 AT

FROM STA. TO STA.
-L- 4&+ 70 RT TO S0+SO RT
-L- 50+83 LT TO -L- 54+75 LT

CD
WEYERHAEUSER
0Œ 317 PG 323

DENOTES HAND CLEARING

SITE 3
HAND CLEARING
(ACRES)= 0.0289

HAND CLEARING
0.0074
0.0215
0.0289

NEU PERMIT PLANS
Rev. (Nov. 26, 2013)

PLAN SCALE:
1"=50' (FULL-SIZE)
1"=100' (HALF-SIZE)

-L- CURvE OATA
PI Sto 53+87J5
t:. = JZ 58' 03J" (RTJ
D = ZJ7'308
L = 1,438.49'
T = 73977'
R = 2.500/X!

NAD 1 B3

Utility Permit Drawtng
SheetLotL

PROJECT REFERENCE NO.	SHEET NO
R-3620	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROP 0/H POWER

PAVEMENT REMOVAL

JOIIJ 11. DOUGIITY
08 334 PG 23T

CI B RIP RAP
8 TONS
GIOTIJmL.I 21 SY

WOODS

WOVIN WIRI FENCE

SUALL PIhES

-L-
N 0' JO' 488W

-L- PC Std.46+4758

kATHLEEN v.SNEll
0Œ 211 PG 443

JOINT-USE 0/H POW & TEL

JOHN 11. DOUGHTY
0Œ 334 PG 237

.L6'9LI
3.\\,91.00 S

CD
WEYERHAEUSER
08 IIT PO 323

DETAIL A
LATERAL BASE DITCH
(Not to Scale)

Min. D = 1.0 Ft.
B = 3.0 Ft.
b = 2.0 F

REVISIONS
8/17/99
04/09/2013 R/W REVISION (KEW) - CHANGED NAME TO KATHLEEN V.SNELL ON PARCEL 02.

MATCHLINE -L- STA.3
SEE SHEET 5

MATCHLINE -L- STA.5
SEE SHEET 7

STA.52+00.00

SR 1139 BEASLEY RD 2 BEST

GRADE TO DRAIN
REMOVE
ACCESS POINT
WOODS
WOVEN WIRE FENCE
7 MARKED GRAVES
CULTIVATED FIELD
3.0' BASE DITCH
SEE DETAIL A
DDE = 390 CY
V DITCH
SEE DETAIL B
CL B RIP RAP
5 TONS
GEOTEXTILE 14 SY
24" CMP
18" CMP
15" CMP
36" CMP
12" GRAVEL
END FENCE
REG. FENCE

25-NOV-2013 14:06
C:\Users\kwilliams\Documents\Engineering\UC\Proj\NEU\R3620_Rdy.psh_06.dgn

-L- CURVE DATA
PI Sta 53+87.35
// = JZ58' OJ?(RTJ
D = 2'17' JOS'
L = 1,438.49'
r = 73977'
R = 2.5001JO'

-Y- CURVE DATA
PI Sta 13+32.69
!:: = 54'12' JIENLTJ
D = &'05'54.9"
L = 283.84'
r = 153.55'
R = JOOIJO'

JOINT USE 0/H POW & TEL

-Y- POT Sta. IO+OOIXJ

BEGIN CONST.
-Y- Sta./0+40()()

-Y- PC Sta.llt79J5

-Y- PT Sta. 14+62.98

-L- POC Sta.55+J4..05•
-Y- POT Sta.l5+2.6.98
S 70' If 29.9" E

-L- PT Sta. 60+86.07

MATCHLINE -L- STA. 55+00.00 SEE SHEET 6

MATCHLINE -L- STA. 66+00.00 SEE SHEET 8

!mAil...A LATIIW. BASI DITCH jNIIIIio Sal•)

IROM STA. TO STA.
-L- 51+« RT TO 89+35 RT
-1.- 5H90 LT TO 89+10 LT
-Y-13+50 LT TO 14+50 LT

QWIU LATIIW. "V" DITCH IIIfiito kelt)

IROM STA. TO STA.
-1.-50+83 LT TO -Y- 10+53
-Y-13+50 LT TO 11+00 LT

NAD 83

B'8'XX'88X8l PAVEMENT REMOVAL

Utility Permit Drawing
*Sheet-Lot_l_L_*

NEU PERMIT PLANS (May 17, 2013)

PLAN CALE:
1°=50 {FULL.SIZE)
1°=100' {HALF.SIZ')

NC 32 CONNECTOR & SR 1139

!50
300

Bi' --&

NC 32. NC 32.

32.50 CO;...:.;'N:..:NE C.;T::OR:.....=-...._"-:.....:cO::'=NN E:..:CT:..:OR
5200 -L- -L-

2.014 ADT
2035 ADT

f/,8§

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R:\Utility\88\Engineering\88118001\Roadway\Sheets\Sheet 7.dgn

PROJECT REFERENCE NO. B-3620 | SHEET NO. 5
NW SHEET NO.
ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

Utility Permit Drawing
Sheet to LIL

PAVEMENT REMOVAL
MONOLITHIC CONC ISLAND

PLAN SCALE:
1"=50' (FULL SIZE)
1"=100' (HALF SIZE)

SITE 4
HAND CLEARING
(ACRES)= 0.0150

CENOTES HANC CLEARING

NAD 83

MATCHLINE -Y1- STA.17+00.00
SEE SHEET 17

MATCHLINE -L- STA.178+00.00
SEE SHEET 16

MATCHLINE -Y1- STA.20+01.80
SEE SHEET 18

AL80UIU: BEACH FARWS,NC
DB 442 PG 935

ALBEMARLE BEACH FARMS,INC
DB 442 PG 935

ALBOIARIE ACRES. LLC
DB 4.., PG 437

HEY YATES PROPERTIES
08 4« PG 139

IRVING E. HILL
DB 298 PG 542

JENNIE BRACY
DB 34 PG 724

JOINT-USE
O/H POW, TEL & CATV

3.0' BASE DITCH
SEE DETAIL A
DDE = 462 CY

10.0' BASE DITCH
SEE DETAIL I

FILL POND AND CONSTRUCT DITCH

WOVEN WIRE FENCE

CL I RIP RAP
26 TONS
GEOTEXTILE 50 S.Y.

V DITCH
SEE DETAIL B

CL B RIP RAP
5 TONS
GEOTEXTILE 14 S.Y.

3.0' BASE DITCH
SEE DETAIL A
DDE = 120 CY

CLASS B RIP RAP
EST. 24.0 TONS
EST. GIOTIXTILE 12 S.Y.

EOP TAPER BOTH SIDES

150' BAY TAPER

-L- PC Sta. 168+43.98

-L- PT Sta. 175+08.11

-L- POC Sta.176+32.87 =
-Y1- POC Sta.20+01.64

SPECIAL CUT DITCH
SEE DETAIL H

N 32°32'53.5" E

N 40°09'30.8" E

GRADE TO DRAIN

REMOVE

REM

BILLBOARDS

END LIMITED C/A
END FENCE

BEG. LIMIT
BEG. PE

PUE

2' PS

4' PS

150-50-150 OFF 8.0

180-40-180 OFF 8.0

R 2.75'

R 3.00'

.QWIJ..A
LATIM IAS DITCH

HVn.0•1.0 .
1•3.0 ft.
b•2.0 ft.

" ROM 51'A TO STA.
-I- 17+50 LT TO 167+00 LT
-1.-1,8+ 00 RT TO 166+00 RT
-L- 173+00 RT TO 17HSO RT

QilAI..I...j
LATIIW. 'V' DITCH
Min. D=1.0 Ft.
b=2.0 Ft.

PROM STA. TO STA.
-I- 166+00 RT TO 170+20 RT
-Yl24+1' LT TO 26+00 LT

QruiU!
SPICIAL CVT DITCH

Min. 0•1.0 I'L

4'1\- 2D I-H0 RT TO JI+ . -IIT
-Yl- 20+'0 U TO 28+70 RT
-Y2- 10+'0 !!1 TO 13+ ,0 RT

ALBELIARLE BEACH FAIU.IS,INC
08 442 PG 935

NC 32 CONNECTOR, NC 32, NC 94

1425
2014 ADT
2650
4300
2035 ADT

25-NOV-2013 15:27

PROJECT REFERENCE NO.	SHEET NO.
R-3620	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NEU PERMIT PLANS
Rev. (Nov. 26, 2013)

PIAN CALE:
1W=50r(FULL·SIZEl
1"=100''(HALF·SIZE:)

NAD 83

PAVEMENT REMOVAL

Utility Permit Drawing
*Sheet_1_ot_lL_*

QEU,
IATEIVJ. BJ
(Not to

ROM ST.0
-l-18H16 LT

REVISIONS
02/14/13 R/W REVISION (KEW) - MOVED C/A TO PROPERTY LINE BETWEEN PARCEL NUMBERS 11 AND 12.
01/09/13 R/W REVISION (KEW) - SHIFTED DRIVE ACCESS NE TO AVOID BEING DIRECTLY IN FRONT OF THE BUILDING ON PARCEL 010.
MODIFIED RIGHT OF WAY AND TEMPORARY CONSTRUCTION EASEMENT ON PARCEL 012.
ADDED A 50' DRIVEWAY ON PARCEL OIL.
DELETED PARCELS 013 AND 014 (REMOVED RIGHT OF WAY AND EASEMENT AND REPLACED DITCH WITH PIPE

MATCHLINE -L- STA.178+00.00
SEE SHEET 15

END TIP PROJECT R-3620
-L- POT STA. 188 + 00.00

WASHINGTON COUNTY
08 267 PC 35

WASHINGTON COUNTY
08 267 PO J53

IRVING E. HILL
DB 298 PG 512

SKINNERSVILLE CIVIC CENTER
DB 269 PG 353

WILLIAM H. BAUM & WIFE, ELNA O. BAUM
DB 267 PG 154

KENNEDY L. BARBER
DB 380 PG 384

PEA RIDGE CONVENENCE STORE,JNC
08 J58 PC 175

ELMER & RUSHA F. NORMAN
LOTS 3, 4,5

ALBERTA PHELPS
DB 174 PG 288

SERGIO SANTIBANEZ ZARZATE
DB 440 PG 476

HENRY & CORINTHIA ALEXANDER
DB 297 PG 429

ROU LEE NOIIWAN 161RS
089<POn

CLEO HOLLY & PAUL MOORE
DB 263 PG 705

OTIS & AZZELIA NORMAN
DB 156 PG 237

HENRY YATES PROPERTIES
DB 444 PG 139

OAVIO R. PAYNE
08 "2 PC J52

OAVIO R. PAYNE
011 •42 PO 52

PROP U/G TEL

BURIED TELEPHONE BY TRENCHLESS INSTALLATION

SITE 5
HAND CLEARING
(ACRES)= 0.0123
- EXCAVATION IN WETLANDS
(ACRES)= 0.0065
- TEMPORARY FILL IN WETLANDS
(ACRES)= 0.0057

HC HC DENOTES HAND CLEARING

F F DENOTES EXCAVATION IN WETLAND

DENOTES TEMPORARY FILL IN WETLAND

26-NOV-2013 14:08
\\ssiles\engineering\UC\Proj\NEU\R3620_Rdy_psh_16.dgn

NEU PERMIT PLANS
Rev. (Nov. 26, 2013)

-YI- CURVE DATA
PI Sta. 21+01.40
Δ = 5J'5r 27ZtRTJ
D = 3'57'05.2"
L = 1,362.99'
T = 736.54'
R = 1,450/XI

PIAN CALE:
1"=50' (FULL-SIZE)
1"=100' (HALF-SIZE)

PROJECT REFERENCE NO.	SHEET NO.
R-3620	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

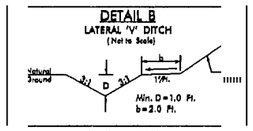
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PAVEMENT REMOVAL

Utility Permit Drawing
Sheet 8 of 11

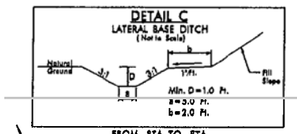
NAD 83

DETAIL B
LATERAL 'V' DITCH
(Not to Scale)



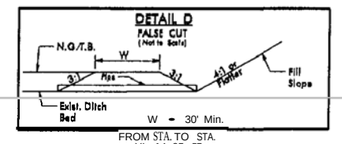
FROM STA. TO SIA.
-YJ-10+50 LT TO 16+00 LT
-YI- 14+00 RT TO 16+00 1IT

DETAIL C
LATERAL BASE DITCH
(Not to Scale)

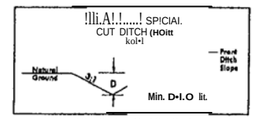


FROM STA TO STA
-YI- 12+50 LT TO 14+00 LT

DETAIL D
FALSE CUT
(Not to Scale)

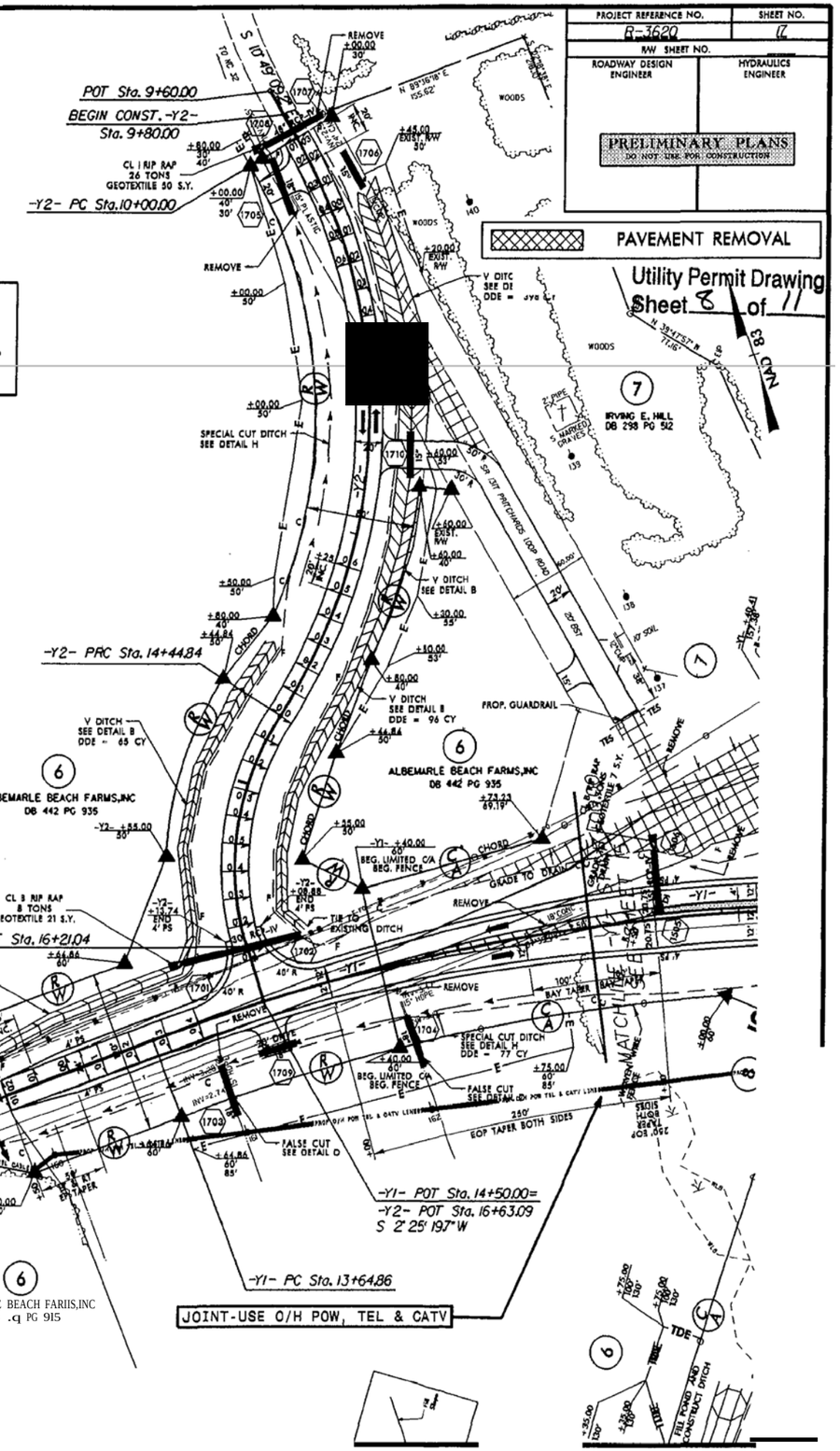


FROM STA. TO STA.
-YI- 14+05 RT
-YI- 1H50 RT



-YI- 12+50 RT TO 16+50 RT
-Y2- 10+50 RT TO 13+50 1IT

NC GRID
NAD 83/CORS96)



SITE 6

- TEMPORARY IMPACTS IN SURFACE WATER (ACRES)= 0.0005

TS TS DENOTES TEMPORARY IMPACTS IN SURFACE WATER

REVISIONS
07/24/2012 R/W REVISION (NEW) - MODIFIED EXISTING R/W ON PARCEL 006.
Design Revision 7-13-12 Revised ditches right of -YI- and -Y2- according to Detail H

8/17/99

25-NOV-2013 14:08
R:\U\ENGINEERING\Projects\R3620_Rdy.tsk
ing\UC\Proj\NEU\R3620_Rdy.tsk

PROJECT REFERENCE NO.	SHEET NO
R-3620	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Utility Permit Drawing
Sheet_L_ot_iL_

8/17/99

REVISIONS

04/09/2015 R/W REVISION (KEW) - COMBINED PARCEL 01 WITH PARCEL 06.
07/24/2012 R/W REVISION (KEW) - REVISED DITCH RIGHT OF -Y1- NO R/W REVISION WAS MADE.
Design Revision 7-13-12 Revised ditch right of -Y1- according to Detail H.

SITE 7

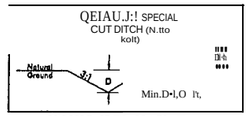
HAND CLEARING (ACRES)= 0.0060
- EXCAVATION IN WETLANDS (ACRES)= 0.0029
- TEMPORARY FILL IN WETLANDS (ACRES)= 0.0031

HC HC DENOTES HAND CLEARING

E E DENOTES EXCAVATION IN WETLAND

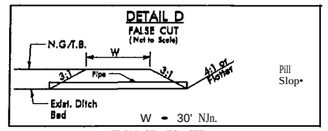
f7////,01 DENOTES TEMPORARY FILL IN WETLAND

QEIAU.J:! SPECIAL CUT DITCH (N.tto kolt)



-Y120HO RT TO 28+70 T

DETAIL D
FALSE CUT
(Not to Scale)



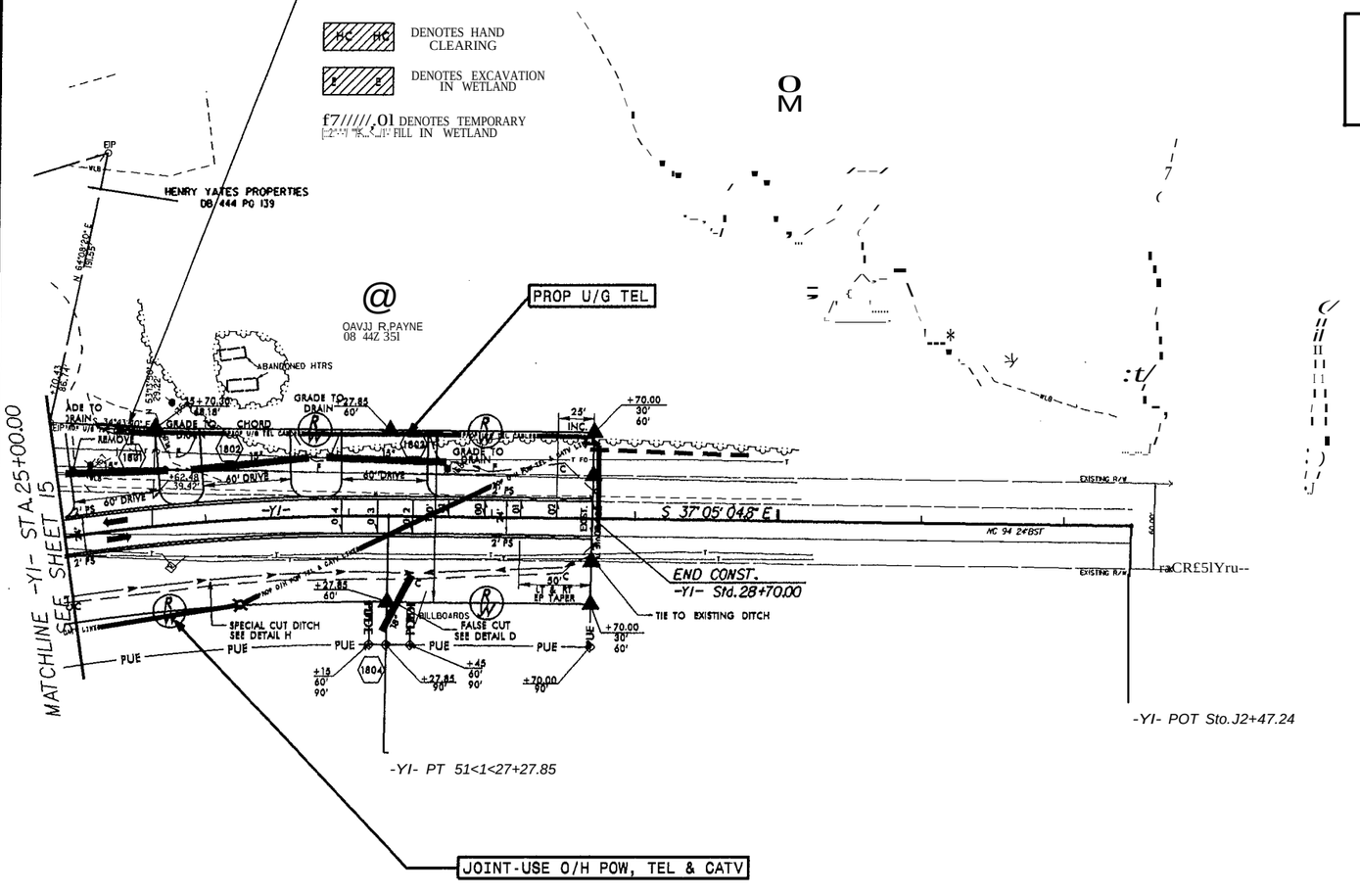
FROM STA TO STII.
-YI- 27+4RT

-YI-
PI Sto 21+01.40
.6. = 51° 5f 27Z (RT)
O ,. J'57'052'
L = 1,352.99'
T = 7J654'
R ,. 1,450/X!

NAD 83

NEU PERMIT PLANS
Rev. (Nov. 26, 2013)

PLAN SCALE:
1"=50' (FULL-SIZEl
1"=100' (HALF·SIZ!:)



6

AIBEUARI.E ACRES, LLC
DB 445 437

26-NOV-2013 14:09
R:\U6\1205\Engineering\UCVProj\NEUVR3620.Rdg
essillSERRANO$$$$

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	WETLAND IMPACTS: Temp. Fill In Wetlands (ac)	WETLAND IMPACTS: Excavation in Wetlands (ac)	WETLAND IMPACTS: Mechanized Clearing in Wetlands (ac)	WETLAND IMPACTS: Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	SURFACE WATER IMPACTS: Temp. SW impacts (ac)	SURFACE WATER IMPACTS: Existing Channel Impacts Permanent (ft)	SURFACE WATER IMPACTS: Existing Channel Impacts Temp. (ft)	SURFACE WATER IMPACTS: Natural Stream Design (ft)
1	-L-11+67 TO 20+25	Aerial Power & Tel	< 0.01				0.23					
2	-L-24+17 TO 37+33	Aerial Power & Tel	< 0.01				0.33					
3	-L-40+14 TO 50+65	Aerial Power & Tel					0.03					
4	-L-174+15 TO 174+43	Aerial Power, Tel & CATV					0.02					
5	-L-178+85 TO 179+45	U/G Tel lines by open cut		0.01	0.01		0.01					
6	-Y1-12+02 TO 12+08	U/G Tel lines by open cut							< 0.01			-
7	-Y1-25+30 TO 25+78	U/G Tel lines by open cut		< 0.01	< 0.01		0.01					
TOTALS:			< 0.01	0.01	0.01	0.00	0.63	0.00	<0.01	0.00	0.00	0.00

Note

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
WASHINGTON COUNTY
TIP PROJECT (R-3620)
Rev. 11/26/2013

See ShBet 1-A For Index of ShBets
See Sh88t 1-8 For COf'Nenflonot Symbols

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3620	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34548.1.1	STP-000S(252)	PE
34548.2.1	STP-000S(252)	WN & UTIL
34548.3.FR1	STP-000S(252)	CONST.

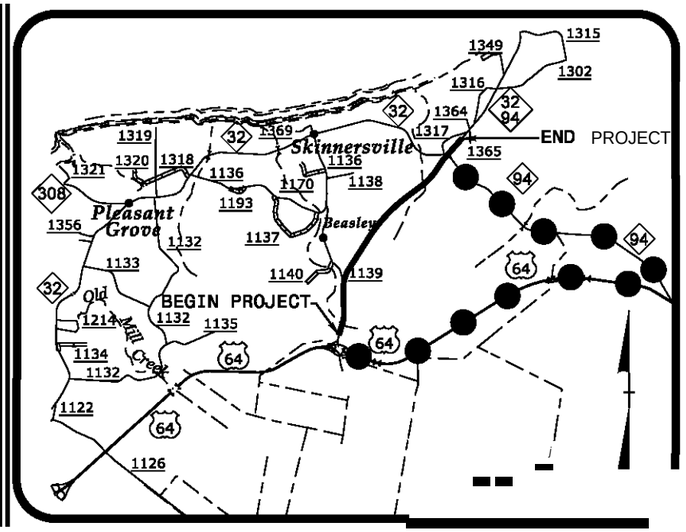
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WASHINGTON COUNTY

LOCATION: NEW ROUTE FROM US 64 TO NC 32

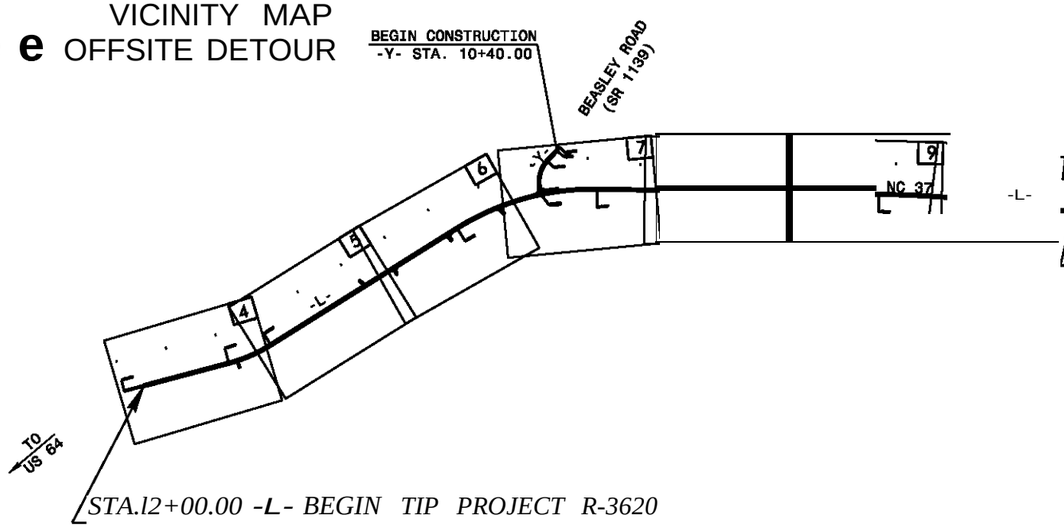
1YPE OF WORK: GRADING,DRAINAGE,PAVING AND CULVERT

TIP PROJECT: R-3620



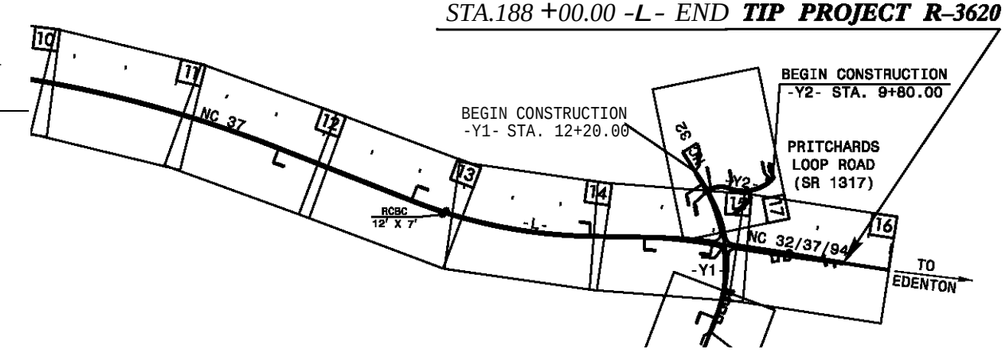
VICINITY MAP

e e e OFFSITE DETOUR



STA.l2+00.00 -L- BEGIN TIP PROJECT R-3620

STA.188 +00.00 -L- END ***TIP PROJECT R-3620***



ENO CONSTRUCTION
-Y1- STA. 28+70.00

CONTRACT: C203413

THIS IS A LIMITED AND PARTIAL CONTROL OF ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.

PRELIMINARY PLANS
DO MaT Jlml ODIlnw.DCI'ICIN

GRAPHIC ***SCALES***

50 25 0 50 100
PLANS
50 25 0 50 100
PROFILE (HORIZONTAL)
10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2014 = 3250
ADT 2034 = 5107
K = 10 %
D = 60 %
T = 7 % *
V = 60 MPH
* TTST =3 DUAL 4
FUNC CLASS =
COLLECTOR
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R--3620 = 3.333 MILES
TOTAL LENGTH TIP PROJECT R--3620 3.333 MILES

Prfptnd In n. Office of1
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

21112 STAN!MltD SPIJCD11Cr'110NS

RIGHT OF WAY DAJE: JUNE 29.2012
LE1TING DAJE: JUNE 17.2014

GARY LOVERING.PE
PROJECT ENGINEER
CHRISTOPHER H.LEE
PROJECT DESIGN ENGINEER

HYDRAUUCS BNGINBBR
P.B.
SIGNATURE:
ROADWAY DESIGN ENGINEBR
P.E.
SIGNATURE:

03-DEC-2013 11:28
R:_Roadway\Proj\R3620_Rdy_tsh.dgn
$$$$USERNAME$$$$

S.U.E. = Sulmufoce Utility Engineering

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line
County Line
Township Line
City Line
Reservation Line
Property Line
Existing Iron Pin
Property Corner
Property Monument
Parcel/Sequence Number
Existing Fence Line
Proposed Woven Wire Fence
Proposed Chain Link Fence
Proposed Barbed Wire Fence
Existing Wetland Boundary
Proposed Wetland Boundary
Existing Endangered Animal Boundary
Existing Endangered Plant Boundary
Known Soil Contamination: Area or Site
Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or UG Tank Cap
Sign
Wall
Small Mine
Foundation
Area Outline
Cemetery
Building
School
Church
Dam

HYDROLOGY:

Stream or Body of Water
Hydro, Pool or Reservoir
Jurisdictional Stream
Buffer Zona 1
Buffer Zone 2
Flow Arrow
Disappearing Stream
Spring

RAILROADS:

Standard Gauge
RR Signal Milepost
Switch
RR Abandoned
RR Dismantled

RIGHT OF WAY:

Baseline Control Point
Existing Right of Way Marker
Existing Right of Way Line
Proposed Right of Way Line
Proposed Right of Way Line with Iron Pin and Cap Marker
Proposed Right of Way Line with Concrete or Granite *PIN* Marker
Proposed Control of Access Line with Concrete CIA Marker
Existing Control of Access
Proposed Control of Access
Existing Easement Line
Proposed Temporary Construction Easement
Proposed Temporary Drainage Easement
Proposed Permanent Drainage Easement
Proposed Permanent Drainage /Utility Easement
Proposed Permanent Utility Easement
Proposed Temporary Utility Easement
Proposed Aerial Utility Easement

ROADS AND RELtfTED FEATURES:

Proposed Permanent Easement with Iron Pin and Cap Marker
Existing Edge of Pavement
Existing Curb
Proposed Slope Stakes Cut
Proposed Slope Stakes Fill
Proposed Curb Ramp
Existing Metal Guardrail
Proposed Guardrail
Existing Cable Guiderail
Proposed Cable Guideraii
Wetlond

Orchard
Vineyard

EXISTING STRUCTURES:

MAJOR:
Bridge, Tunnel or Box Culvert
Bridge Wing Wall, Head Wall and End Wall
MINOR:
Head and End Wall
Pipe Culvert
Footbridge
Drainage Box: Catch Basin, Dl or JB
Paved Ditch Gutter
Storm Sewer Manhole
Storm Sewer

I/TILITIES:

POWER:
Existing Power Pole
Proposed Power Pole
Existing Joint Usa Pole
Proposed Joint Use Pole
Power Manhole
Power Line Tower
Power Transformer
H-frama Pole
UG Power Cable Hand Hole
Recorded UG Power Line
Designated UG Power Line (S.U.E.*)

TELEPHONE:
Existing Telephone Pole
Proposed Telephone Pole
Telephone Manhole
Telephone Booth
Telephone Pedestal
Telephone Call Tower
Equality Symbol
Pavement Removal

WATER:
Water Manhole
Water Meter
Water Valva
Water Hydrant
Recorded UG Water Line
Designated UG Water Line (S.U.E.*)
Abova Ground Water Line

TV:
TV Satellite Dish
TV Pedestal
TV Towar
UG TV Coble Hand Hole
Recorded UG TV Coble
Designated UG TV Coble (S.U.E.*)
Racordad UG Fiber Optic Cable
Designated UG Fiber Optic Coble (S.U.E.*)

GAS:
Gas Valve
Gas Meter
Recorded UG Gas Line
Designated UG Gas Line (S.U.E.*)
Above Ground Gas Line

SANITARY SEWER:
Sanitary Sewer Manhole
Above Ground Sanitary Sewer
Sanitary Sewer Claonout
UG Sanitary Sewer Line
Recorded SS Forced Main Line
Designated SS Forced Main Line (S.U.E.*)

MISCELLANEOUS:
Utility Pole
Utility Pole with Bose
Utility Located Object
Utility Traffic Signal Box
Utility Unknown UG Line

PEGETATION:

Single Tree

Single Shrub---------- o

Proposed Lateral, Toil, Head Ditch----
Folse Sump ----------

>> > >
<I>

UG Telephone Cable Hand Hole ----
Recorded UG Telephone Cable-----
Designated UG Telephone Cable (S.U.E.*)-

Hedge ----------

Woods Line

UG Tank; Water, Gas, Oil --------
Underground Storage Tonk, Approx. Loc. --
NG Tank; Water, Gas, Oil
Gaoenvironmantol Boring ---
----- UG Test Hole (S.U.E.*)

Recordad UG Telephone Conduit
Designated UG Telephone Conduit (S.U.E.*t-
Recordad UG Fiber Optics Cable ----
Designated UG Fiber Optics Cable (S.U.E.*t-

Abandoned According to Utility Records --
End of Information ----------

D

AATUR

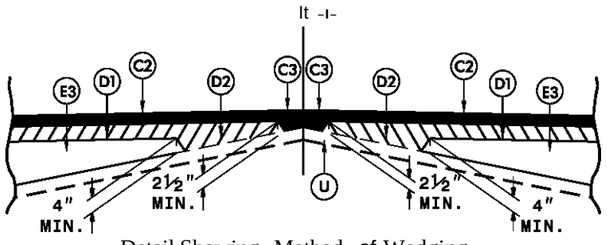
E.O.I.

PAVEMENT SCHEDULE

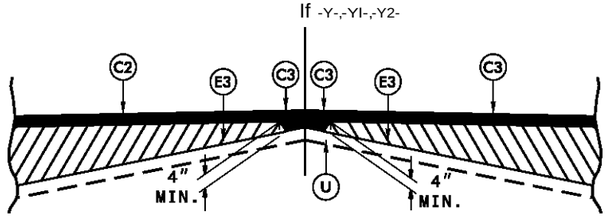
(FINAL PAVEMENT DESIGN 2/27//e.)

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	; 0:N xe RAg P T:s A 2cr= E Rs A -c =sA iH 9r8, BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
01	PROP. APPROX. 211!" ASPHALT CONCRETE INTERIIEOIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS.PER SQ. YD.
02	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LE88 THAN 211!" IN DEPTH OR BREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 458 LBS. PER SQ. YD.
E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 827 LBS. PER SQ. YD.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE 825.08, AT AN AVERAGE RATE OF 114 L8S. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 4" IN DEPTH OR GREATER THAN 5" IN DEPTH.
J1	PROP. 8" ABBREBATE BABE COURSE.
J2	VARIABLE DEPTH AGGREGATE BASE COURSE.
p	PRIME COAT.
R1	5" MONOLITHIC CONCRETE ISLAND.
T	EARTH IIATERIAL.
u	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDQINQ DETAIL)

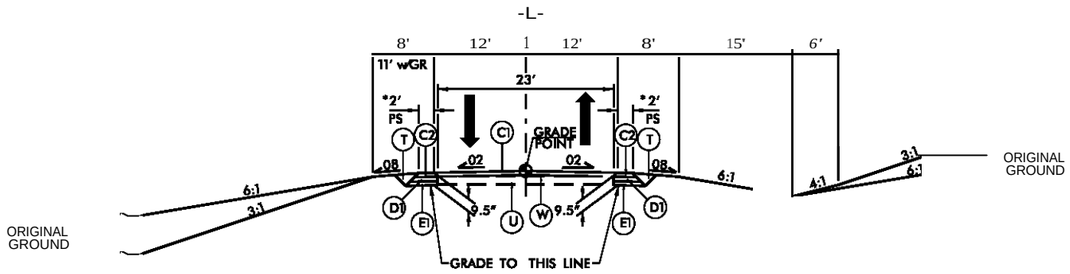
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



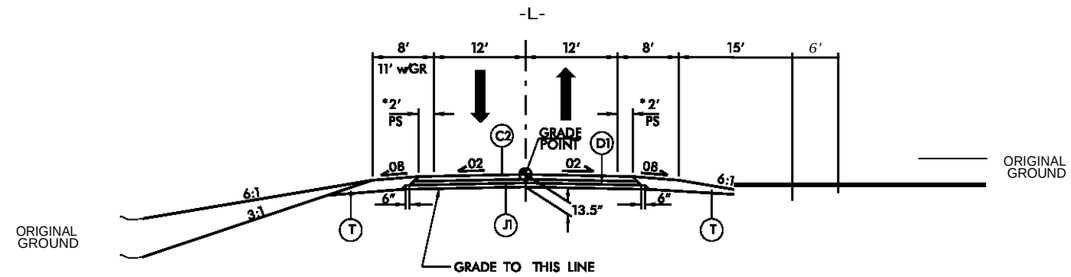
Detail Showing Method of Wedging



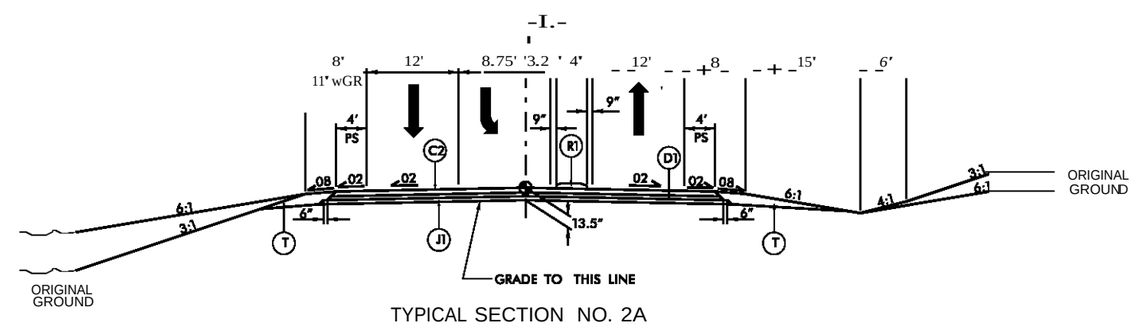
Detail Showing Method of Wedging



TYPICAL SECTION NO.1



TYPICAL SECTION NO.2



TYPICAL SECTION NO. 2A

PROJECT IIUHiiiNCLNO. R-:5620 SHEET NO. 2

lf»DWAY DESIGN ENGINEER

PAVEMENT DESIGN ENGNEE

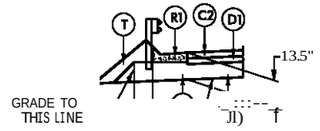
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

TYPICAL SECTION NO.1

-L- STA 12+00.00 TO -L- STA 14+50.00
-L- STA. 181+00.00 TO -L- 188+00.00
*4' PAVED SHOULDER FOR BIKE LANES
(SEE PLANS FOR LOCATIONS)

TYPICAL SECTION NO.2

-L- STA 14+50.00 TO -L- STA. 177+00.00
-L- STA. 180+00.00 TO -L- STA.181+00.00
*4'PAVED SHOULDER FOR BIKE LANES
(SEE PLANS FOR LOCATIONS)



SHOULDER BERM GUTTER DETAIL

-L- STA. 146+80.00 TO -L- STA. 157+97.00 LT.

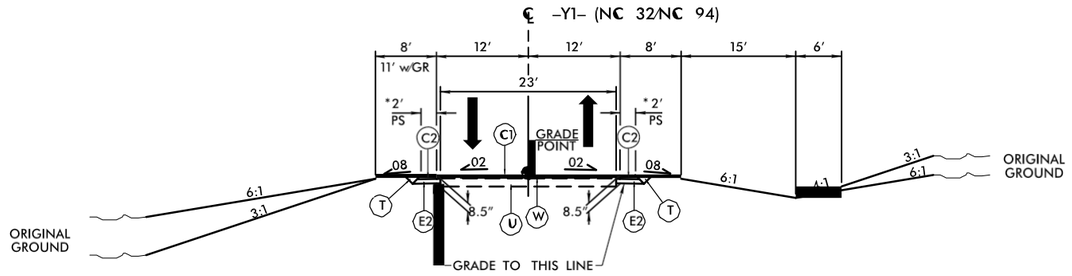
TYPICAL SECTION NO. 2A

-L- STA.177+00.00 TO -L- STA.180+00.00

PROJECT REFERENCE NO.	SHEET NO.
R-3620	2-A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

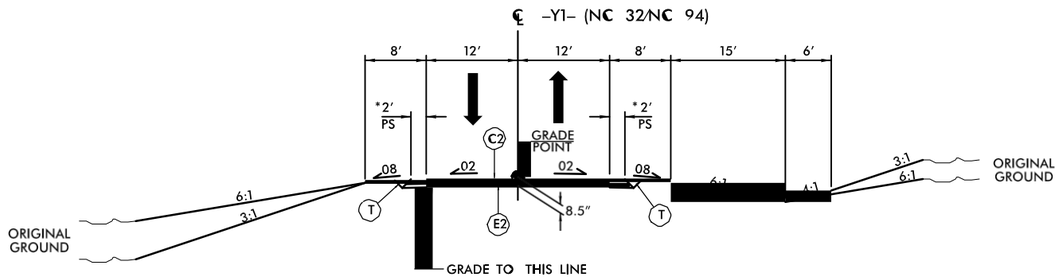
PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN 2/27/12)	
C1	1.5" S9.5B
C2	3.0" S9.5B
C3	VAR. S9.5B
D1	2.5" I19.0B
D2	VAR. I19.0B
E1	4.0" B25.0B
E2	5.5" B25.0B
E3	VAR. B25.0B
J1	8.0" ABC
J2	VAR. ABC
P	PRIME COAT.
R1	MONO. CONC. ISLAND.
T	EARTH MATERIAL
V	EXIST. PAVEMENT
W	WEDGING



TYPICAL SECTION NO. 3

TYPICAL SECTION NO. 3

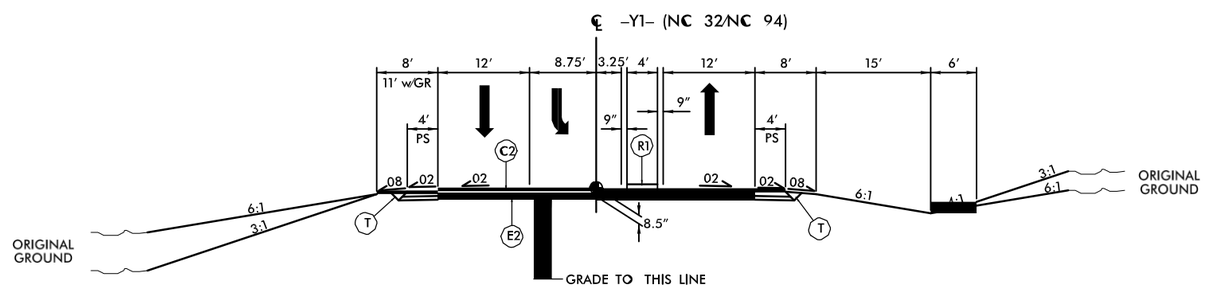
–Y1– STA. 12+50.00 TO –Y1– 16+00.00
–Y1– STA. 25+00.00 TO –Y1– 28+70.00
*4′ PAVED SHOULDER FOR BIKE LANES
(SEE PLANS FOR LOCATIONS)



TYPICAL SECTION NO. 4

TYPICAL SECTION NO. 4

–Y1– STA. 16+00.00 TO –Y1– 17+50.00
–Y1– STA. 19+50.00 TO –Y1– 19+80.01
–Y1– STA. 20+23.17 TO –Y1– 25+00.00
*4′ PAVED SHOULDER FOR BIKE LANES
(SEE PLANS FOR LOCATIONS)



TYPICAL SECTION NO. 4A

TYPICAL SECTION NO. 4A

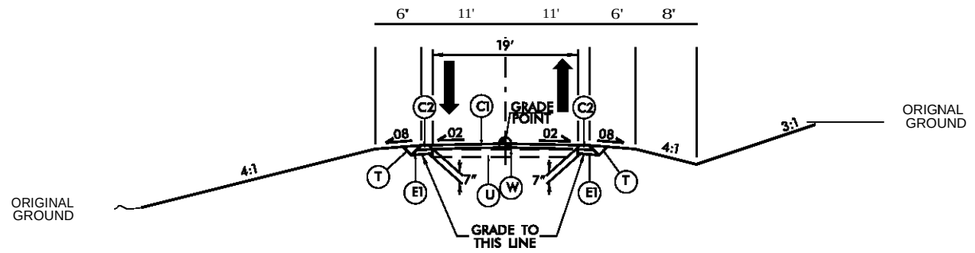
–Y1– STA. 17+50.00 TO –Y1– 19+50.00

PAVEMENT SCHEDULE *IFINAL PAVEMENT DESIGN 2/27/121*	
C1	1.5" S9.5B
C2	3.0" S9.5B
C3	VAR. S9.5B
01	2.5" I19.0B
D2	VAR. I19.0B
E1	4.0" B25.0B
E2	5.5" B25.0B
E3	VAR. B25.0B
J1	8.0" ABC
J2	VAR. ABC
p	PRIME COAT.
R1	MONO. CONC. ISLAND.
T	EARTH MATERIAL
u	EXIST. PAVEMENT
W	WEDGING

PIOJIICT IIJHIIINCII NO.	SHEET NO.
R-J6a0	2-B
If»DWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y- (SR 1139)

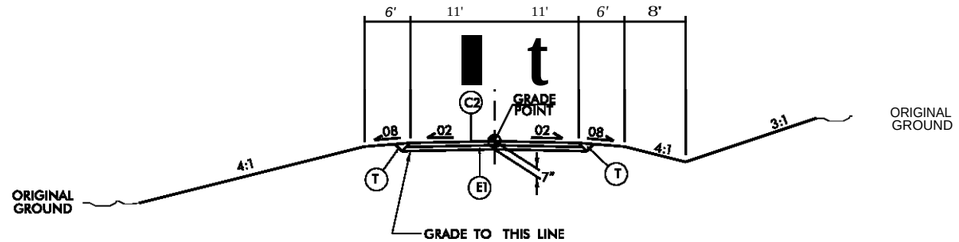


TYPICAL SECTION NO.5

TYPICAL SECTION NO.5

-Y- STA. 10+40.00 TO -Y- STA. 11+25.00

-Y- (SR 1139)

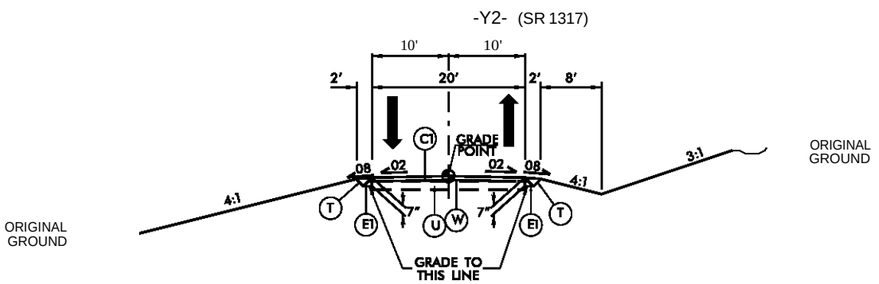


TYPICAL SECTION NO. 6

TYPICAL SECTION NO. 6

-Y- STA. 11+25.00 TO -Y- STA. 15 +15.03

-Y2- (SR 1317)



TYPICAL SECTION NO.7

TYPICAL SECTION NO.7

-Y2- STA. 10+00.00 TO -Y2- STA. 11+00.00

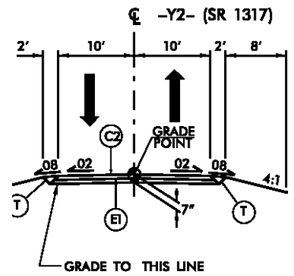
03-DEC-2013 14:28
R:\Roadway\Pro\R3620_Rdy_typ.dgn
$$$$USERNAME$$$$

PAVEMENT SCHEDULE /FINAL PAVEMENT DESIGN 2/27/12/	
C1	1.5" S9.58
C2	3.0" S9.58
C3	VAR. S9.58
01	2.5" 119.08
02	VAR. 119.08
E1	4.0" B25.0B
E2	5.5" B25.08
E3	VAR. B25.08
J1	8.0" ABC
J2	VAR. ABC
p	PRIME COAT.
R1	MONO. CONC. ISLAND.
T	EARTH MATERIAL
u	EXIST. PAVEMENT
W	WEDGING

PIIOJECT mBENCE NO. R 3620 | SHEET NO. 1 2-c

IOMIWAY DESIG'" IHGINEEI | PAVEMENT DESIGN ENGINEEI

PRELIMINARY PLANSJ



ORIGINAL GROUND

ORIGINAL GROUND

TYPICAL SECTION NO.8

TYPICAL SECTION NO. 8

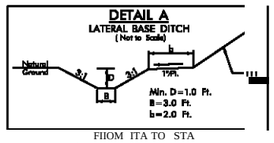
-Y2- STA.11+00.00 TO -Y2- STA.16+51.09

ECT REFERENCE NO.	SHIET NO.
R-J62.0	4
rwt SHEET NO.	
ROAnWAY DI!SIGN ENGINEER	HYDRAUUCS ENGINIB

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

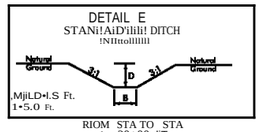
NAD 83

DETAIL A
LATERAL BASE DITCH
(Not to Scale)



FIOM ITA TO STA
-L- 12+00 liT W 17+50IT

DETAIL E
STANi!AiD'ilili! DITCH
!NIInoIIIIII



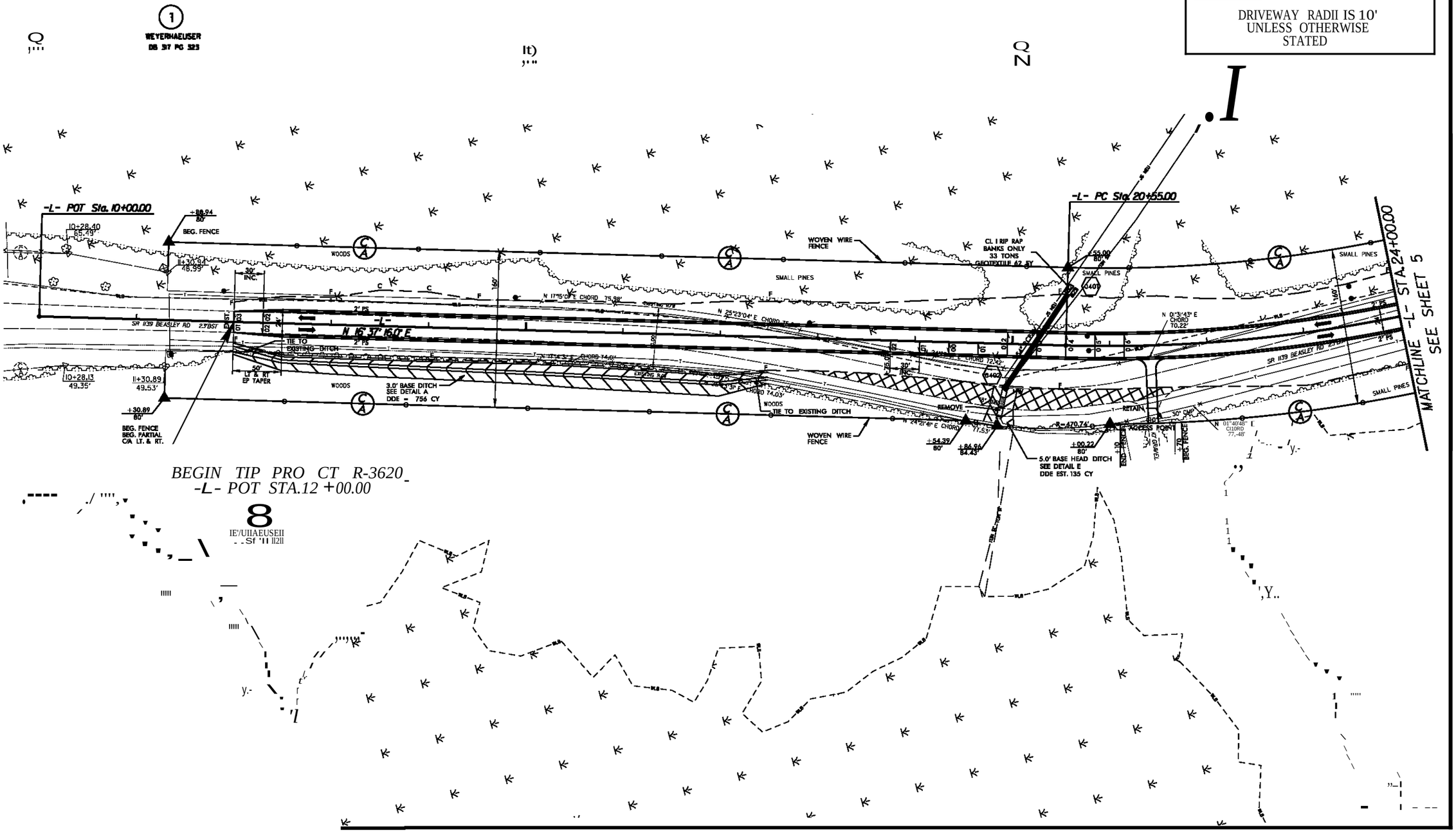
RIOM STA TO STA
-1.- 20+00 liT

-L- CVINE DATA
PiSID 22+lbJJtl
// • trOIJ'QU"ILTJ
D • 49'1111
L • -HI1M
T • 225.98'
R • I.500IXJ'

FOR -L- PROFILE, SEE SHEET NO.19

PAVEMENT REMOVAL

DRIVEWAY RADII IS 10' UNLESS OTHERWISE STATED



BEGIN TIP PRO CT R-3620_
-L- POT STA.12 +00.00

8
IE'/UIIAEUSEII

.....1

PROJECT REFERENCE NO.	SHEET NO.
R-3620	5
liN SHEEf NO.	
tDN:/WAY DIISIGN	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83

-L- CURVE DATA
PI Sta 22+80.98
Δ = 17° 08' 04.7" (LT)
D = 3° 49' 11.0"
L = 448.58'
T = 225.98'
R = 1,500.00'

FOR -L- PROFILE,SEE SHEET NO. 19

E8888888I PAVEMENT REMOVAL

DRIVEWAY RADII IS 10' UNLESS OTHERWISE STATED

-L- PT' Sta.25f0l.58

MATCHLINE -L- STA.24+00.00 SEE SHEET 4

MATCHLINE -L- STA.38+00.00 SEE SHEET 6

1
WEYERHAEUSER
DB 37 PG 323

2
KATHLEEN V. SNELL
DB 278 PG 445

SMALL PINES

WOVEN WIRE FENCE

EXISTING R/W

-L-

N 0° 30' 48.6" W

END FENCE

ACCESS POINT

MTL GATE

36+20.46
2.05'

36+16.49
57.51'

±03.58
80'

±00.00
80'

2' PS

140'

15'

30'

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DETAIL B

PIOJECT IU! EIUINCE NO. SHIE NO.

R-..... 3
WOW SHEET NO. 6
JUC.U

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83

PAVEMENT REMOVAL

FOR -L- PROFILE, SEE SHEET NO. 20

ROM STATO STA
-1.- 048+70 10'TO 50+50 10'
-1.-50+83 LTTO -1.-5-4+75 LT

PI Sla M+BT.35
D • Ztr30E
L • IIIJBR
T • 7$97r
R.2B»UJ

-L- PC Sta. 46+47.58

MATCHLINE -L- STA.52+00.00
SEE SHEET 7

1 WEYERHAEUSER DB 317 PG 325

2 KATHLEEN V. SNELL DB 276 PG 443

3 JOHN M. DOUGHTY DB 334 PG 237

WOVEN WIRE FENCE

CL I RIP RAP 33 TONS GEOTEXTILE 62 SY

CL B RIP RAP 8 TONS GEOTEXTILE 21 SY

CL B RIP RAP 5 TONS GEOTEXTILE 14 SY

SMALL PINES

WOODS

CULTIVATED FIELD

V DITCH SEE DETAIL B

3.0' BASE DITCH SEE DETAIL A DDE = 390 CY

7 MARKED GRAVES

GRADE TO DRAIN

REMOVE

ACCESS POINT

END FENCE

RECT. FENCE

12' GRAVEL

4" CHL

24" CMP

15"CMP

18" CMP

SR 1139 BEASLEY RD

N 0°30'48.6"W

-BL- 12

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,

-L- CtJRIE DATA
PI Slo 5.J+Bl.JS
1). - SIJ' 03J'" (/U}
D - 2" rr :JOif
L - 1.4J8119'
T - 7J971"
R - 2.5001X1

-r- CtJRIE DATA
PI Slo JJ+J2BJ
|:J. - 54'12' JIGfLTJ
D - IV05'54S'
L - 2/IIHI'
T - 153.55'
R - J00JJO'

DETAIL A
LATERAL BASE DITCH
(Not to Scale)
Natural Ground
3:1
D
3:1
b
1'Mn.
Min. D=1.0 Ft.
b=3.0 Ft.
b=2.0 Ft.

FROM STA. TO STA.
-L- 51+... IT TO 89+35 O
-1.- 55+90 LT TO 89+10 LT
-Y- 13+50 LT TO 14+50 LT

DETAILB
LATERAL Y DITCH
(Not to Scale)
Natural Ground
3:1
D
3:1
b
1'Mn.
Fill Slope
Min. D=1.0 Ft.
b=2.0 Ft.

FROM STA. TO STA.
-Y- 10+60 liT TO -Y-14+ 75 liT
— 50+83 LT TO — 54+75 LT
-Y- 11+DO LT TO 13+50 LT

NAD 83

ECT REFERENCE NO. R-J62.0
SHIIET NO. 7
rwt SHEET NO.
ROAnWA.Y DI!SIGN ENGINEER
HYDRAUUCS ENGINIB

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR -L- PROFILE,SEE SHEET NO. 20
FOR -Y- PROFILE,SEE SHEET NO. 25
PAVEMENT REMOVAL

JOIII ... DGUGMTY
- - D4 PG IJJ

JOHN M. DOUGHTY
DB 334 PG 237

-Y- PC Sla.11+79JS

-Y- PT Sla. 14+62.98

-L- POC Slo.55+.Jf.DS•
-Y- P(J1' SICI.15+26.98
S 7(f If 29!TE

-Y- POT Sta. 10+00.00

BEGIN CONST.
-Y- Sla.10+40.00

TIE TO EXISTING DITCH

REMOVE

WOVEN WIRE FENCE

CULTIVATEO FELD

CULTIVATED FIELD

V DITCH SEE DETAIL B DDE = 210 CY

V DITCH SEE DETAIL B DDE = 262 CY

3.0' BASE DITCH SEE DETAIL A

CL. I RIP RAP 26 TONS GEOTEXTILE 50 SY

3.0' IASE DITCH SEE DETAIL A. DDE — 2,630 CY

3.0' IASE DITCH SEEDETA.IL.A.

140-20-140 OFF 6'

60' R

R=1879.86'

-L- PT Sta. 60+86.07

MATCHLINE -L- STA.52+00.00 SEE SHEET 6

MATCHLINE -L- STA.66+00.00 SEE SHEET 8

END PARTIAL C/A LT. & RT. BEG. LIMITED C/A LT. & RT.

CULTIYATED FELD

JOIII ... DGUGIITY
III D4 I'G 13T

JOIII ... DIIIGitTY
- - D4 PG liT

NC 32 CONNECTOR & SR 1139

ISO

NCJ2 CONNECTOR -L-

NCJ2 CONNECTOR -L-

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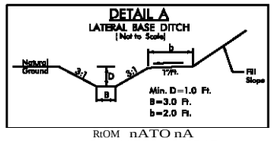


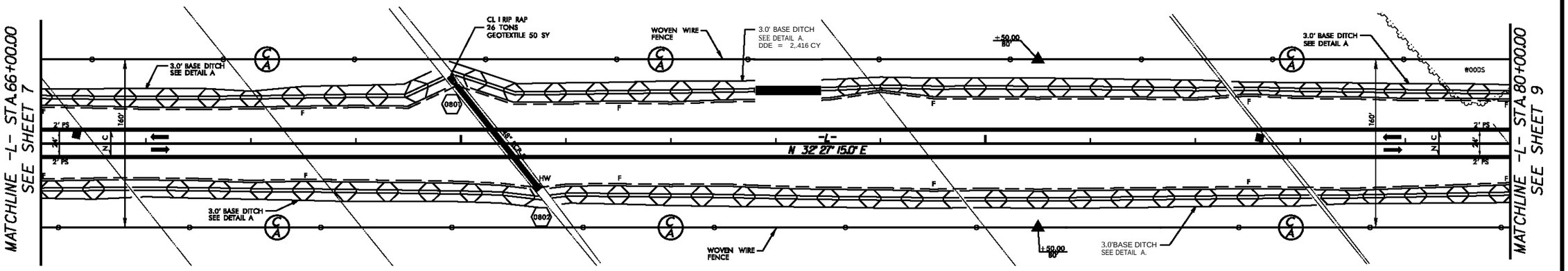
RtOM nATO nA
-1,- 51+44 ltT TO 19+35 ltT
-1,- S5+90 LT TO 19+10 LT

ECT REFERENCE NO. R-J62.0 | SHIIET NO. 8
rwt SHEET NO.
ROAnWAY D!!SIGN ENGINEER | HYDRAUUCS ENGINIB

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83

FOR -L- PROFILE,SEE SHEET NO. 21



CUITIVATEO FIELD

CULTIVATED FIELD

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ECT REFERENCE NO.	SHIIET NO.
R-J62.0	9
rwt SHEET NO.	
ROAnWA.Y DI!SIGN ENGINEER	HYDRAUUCS ENGINIB

-L- dJFNE DATA
PI Sti.J tiO+HJJS
Ll - 20!!.!2D(RTJ
D - 02B.!!
429BJB
L -
T - 2JI272'
R - 12JXX)IXJ'

NAD 83

FOR -L- PROFILE SEE SHEET NO. 21

DRIVEWAY RADIIIS 10' UNLESS OTHERWISE STATED

MATCHLINE -L- STA.80+00.00 SEE SHEET 8

MATCHLINE -L- STA.94+00.00 SEE SHEET 10

IEYEIINAEUSER
LJJ PG

.111111 ILDOUGHTY
DI PG IJ'

CIO

en

.1111 H.DOUGHTY
DI PG IJJ

16' DOUBLE GATES

CL B RIP RAP 15 TONS GEOTEXTILE 37 SY

WOVEN WIRE FENCE

3.0' BASE DITCH SEE DETAIL A

N 33°08'23" E

±42.13
80'

-L-
N 32°27'50" E

0901 0902 0903 0904 0905 0906 0907 0908

WOODS

HW

F

2' PS

N.C.

160'

12'

8' 8'

3 JOHN M. DOUGHTY DB 334 PG 237

4 WEYERHAEUSER DB 387 PG 637

-L- PC Sta. 88+42.13

S 72°59'19" E

NORTH CAROLINA POWER

DETAIL A
LATERAL BASE DITCH
(Not to Scale)

Natural Ground
3:1
3:1
Fill Slope
Min. D=1.0 Ft.
B=3.0 Ft.
b=2.0 Ft.

fltOM !ITA. TO !ITA.
-L- 51+.44 rr TO B9+35 1tr
-I- 55+90 LT TO 19 +10 LT

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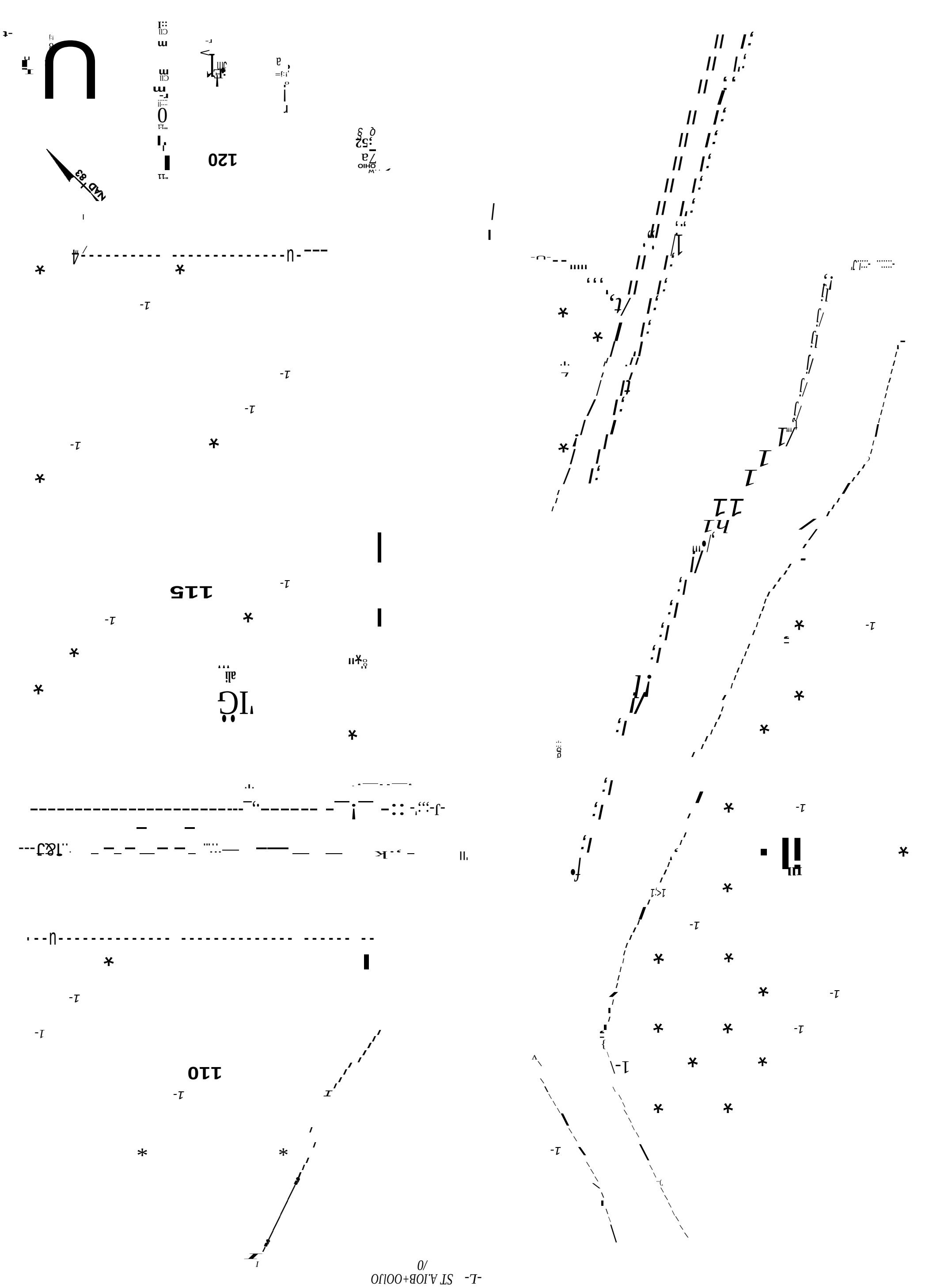
MATCHLINE -L- STA 94+00.00
SEE SHEET 9

95

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SHEET NO.
10

ATCHUNE -L- STA./08+00.00
SEE SHEET II



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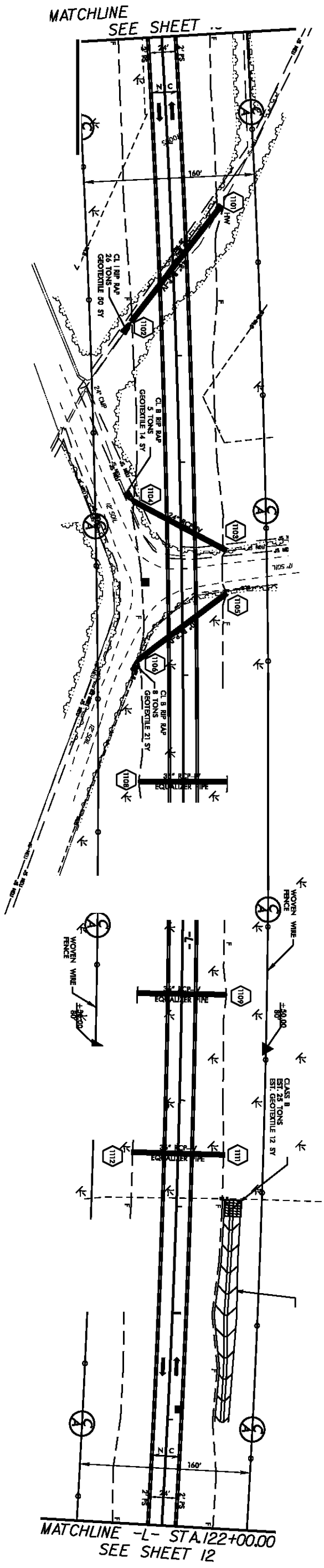


PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

WON SHEET NO.

10/DNI>.Y DESIGN ENGINEEI

HYDRAUUCS ENGINEER

FOR -L- PROFILE, SEE SHEET NO. 23

It)

M

IE'IEIIHMUSER

III ***I'G ***

JAI' WE DITCH
sa; DETAIL I>.
DOE = 375 CY

3.0' WE DITCH
SEE DETAIL I>.
DDE = CY

WOVEN WIIE FINCE

3.0' WE DITCH
SEE DETAIL I>.
ODE = ""9 CY

-L- PT Stu.1 +41110

DETAILB
LI>.TEIAL 'V' DITCH

FIOM STL. TO STL.

FIIOM STL. TO STL.

IE'/£111AEUSER

0 LT TO 143+30 LT

-lr 123+00 IT TO 127+"" IT
-lr 123+50 LT TO 121+23 LT
-lr 130+00 IT TO 13 +51 IT
134+2

-1.-

-L- 127+50 liT TO 129+00 liT
-lr 121+26 LT TO 129+50 LT

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-3620	12

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-L- CURVE DATA
PI Sta 110+14.85
Δ = 20° 31' 32.0" (RT)
D = 0° 28' 38.9"
L = 4,298.86'
T = 2,172.72'
R = 12,000.00'

NAD 83

130

CL B RIP RAP
WOVEN WIRE FENCE

MATCHLINE -L- STA.122+00.00
SEE SHEET 11

SEE DETAIL B

1201

1202
HW

-L-

N 52°58'41.0" E

WOODS

V DITCH
SEE DETAIL B

±41.00
80'

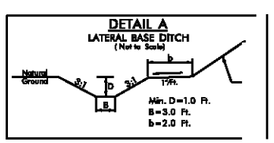
1203

1204

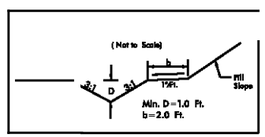
CL B RIP RAP
8 TONS
GEOTEXTILE 21 SY

MATCHLINE -L- STA.136+0
SEE SHEET 13

DETAIL A
LATERAL BASE DITCH
(Not to Scale)



(Not to Scale)



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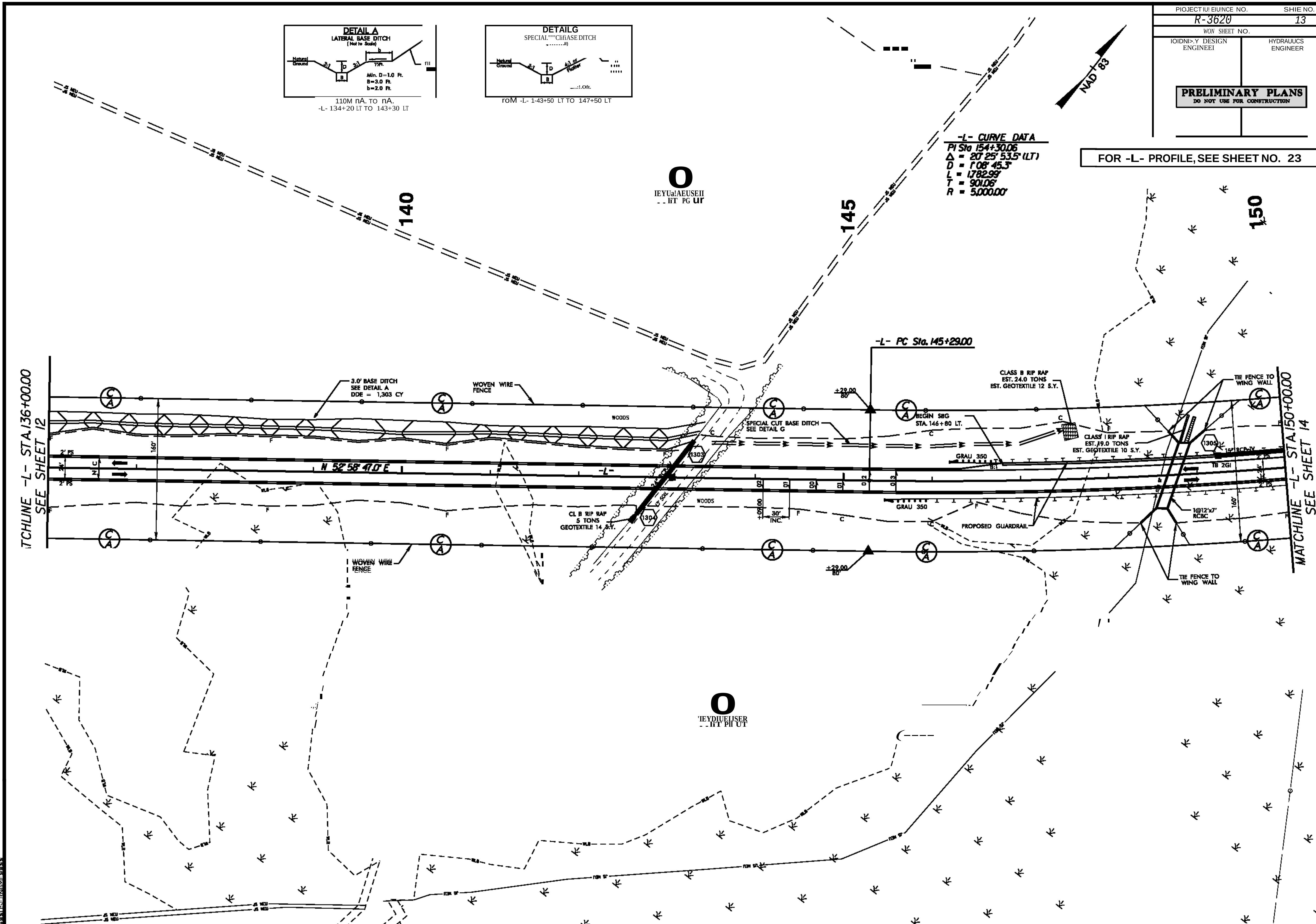
PIOJECT IU! EIU!NCE NO.	SHIE NO.
R-3620	13
WON SHEET NO.	
IOIDNI>.Y DESIGN ENGINEEI	HYDRAUUCS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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ECT REFERENCE NO. R-J62.0 | SHEET NO. 14
TWT SHEET NO.
ENGINEER ROADWAY DESIGN | ENGINEER HYDRAULICS
NAD 83
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR L PROFILE,SEE SHEET NO. 24

STA.150+00.00
SHEET 13
-L- PT Sta. 163+11.98
WOVEN WIRE FENCE
CLASS B RIP RAP
END RIP RAP
CLASS
WOVEN WIRE FENCE
3.0' BASE DITCH
SEE DETAIL A
DDE = 748 CY
WEYERHAEUSER
DB 387 PG 657
+98.92
2,087.68'
S 60°30'50" E
2382.49'
+00.00
80'
+11.98
80'
160'
140'
PCZ-
REIDING
IDWLE KAOI AIIYS,IIC
Al. 44Z
IDWLE IEACH FAIIYS,IIC
Al. 44Z
IIEKIIIPG
Pel-
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PIOJECT IUI EIUINCE NO.	SHIE NO.
R-3620	15
WON SHEET NO.	
IOIDNDI>.Y DESIGN ENGINEEI	HYDRAUUCS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR -L- PROFILE,SEE SHEET NO. 24

FOR -YI- PROFILE,SEE SHEET NO.26

PAVEMENT REMOVAL

IMONOLITHIC CONC.ISLAND

DRIVEWAY RADII IS 10' UNLESS OTHERWISE STATED

-L- CURIE DATA
PI Sla fflf7654
II. - rJS:Il'SlRTJ
O - rotr Jf5.J"
L - 664.13'
T - 3J2.55'
R - 5IXXJIX1

-YJ- CURIE OATA
PISirJ21+01.110
II. - 5J"5f ZTZ IRTJ
D - J"51'052'
L - I.J6299'
T - 7J6.54'
R - IA51J/XJ'

DETAIL I
LATERAL BASE DITCH
(Not to Scale)
Min. D=1.0 Ft.
B=10.0 Ft.
Min. b=2.0 Ft.

AtOM STA..TO STA..
169+-45 LT TO 1n+50 LT

DETAIL A
LATERAL BASE DITCH
(Not to Scale)
Min. D=1.0 Ft.
B=3.0 Ft.
b=2.0 Ft.

10M STA..TO STA..
-1.- 157+50 LT TO 167+00 LT
151+00 1rr TO 166+00 lrr
-1.- 173+00 rr TO 175+50 rr

DETAIL B
LATERAL 'V' DITCH
(Not to Scale)
Min. D=1.0 Ft.
b=2.0 Ft.

FIOM STA..TO STA..
-L- 164+00 RT TO 170+20 RT

Min. D=1.0 Ft.

-Yl- 20+50 rr TO 21+70 rr

NC 32 CONNECTOR,NC 32,NC 94

1425/1782 — NC 32 -Yl- — 875/1375
<50/<50
3150/5007 — NC 32 CONNECTOR -L- — NC 32/94 -L- — 5675/9604
225/296 — NC 94 -Yl- — 1875/3518
2650/4221

2.014 AIJT
2034 AIJT

MATCHLINE -YI- STA.17+00.00 SEE SHEET 17

MATCHLINE -L- STA.178+00.00 SEE SHEET 16

MATCHLINE -Y- SEE SHEET

ALBEMARLE BEACH FARMS,INC DB 442 PG 935

ALBEMARLE ACRES. LLC ----'1107

HENRY YATES PROPERTIES DB 444 PG 199

IRVING E. HILL DB 298 PG 562

3.0' BASE DITCH SEE DETAIL A DDE = 462 CY

10.0' BASE DITCH SEE DETAIL I

FILL POND AND CONSTRUCT DITCH

V DITCH SEE DETAIL B

3.0' BASE DITCH SEE DETAIL A DDE = 120 CY

CL I RIP RAP 26 TONS GEOTEXTILE 60 S.Y.

CL B RIP RAP 5 TONS GEOTEXTILE 14 S.Y.

CL B RIP RAP 8 TONS GEOTEXTILE 7 S.Y.

CLASS 8 RIW EST. 24.0 TONS
EST.GEOTEcrll.I! 12 S.Y.

ECP TAPER BOTH SIDES

SPECIAL CUT DITCH SEE DETAIL H

WOVEN WIRE FENCE

GRADE TO DRAIN

REMOVE

-L- PC Sta. 168+43

-L- PT Sta. 175+08.11

-L- POC Sta.176+32.87=
-Yl- POC Sta.20+01.64

END UNITED C/A END FENCE

BILLBOARDS

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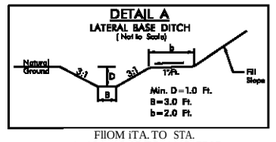
SEE SHEET ff5+oo.oo

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-3620	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDMUUCS ENGINEEI

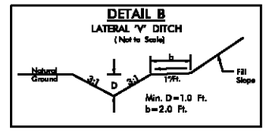
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DETAIL A
LATERAL BASE DITCH
(Not to Scale)



FIIOM iTA. TO STA.
-1.-184+16 LT TO 1115+77 LT

DETAIL B
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. TO STA.
-1.- 183+00 rT TO 184+65 IT
— 116+31 LT TO 111+00 LT

NAD 83

WS888S PAVEMENT REMOVAL
FOR -L- ~~PROFILE,SEE~~ SHEET NO. 25

MATCHLINE -L- STA.178+00.00
SEE SHEET 15

END TIP PROJECT R-3620
-L- POT STA. 188+00.00

180

WASHINGTON COUNTY
DB 267 PG 353

IRVING E. HILL
DB 298 PG 592

SKINNERSVILLE CIVIC CENTER
DB 269 PG 353

HPB

25F COMMUNITY CENTER

CL-RIP-RAP
26 TONS
GEOTEXTILE 50' S.Y.

TENNIS COURTS

525'
EOP TAPER BOTH SIDES

3.0' BASE DITCH
SEE DETAIL A
DDE = 205 CY

BST BASKETBALL COURT

50'
LT & RT
EP TAPER

END PARTIAL C/A LT & RT

TIE TO EXISTING DITCH

Y DITCH
SEE DETAIL B
DDE = 62 CY

END LIMITED C/A
BEG. PARTIAL C/A
END FENCE
+79.45, 60'

ACCESS POINT
36' DRIVE

GRAVEL PARKING

CONC WALK

POSTS

COLLAR AND EXTEND
48" RCP-IV

100' BAY OVER

RETAIN

CL B RIP RAP

REMOVE

50' DRIVE
ASPHALT

ACCESS POINT

GAS PUMPS

CAR PORT

ISFBUS

PEA RIDGE CONVENIENCE STORE,INC
DB 350 PG 175

GRADE TO DRAIN

TURKEY SHOOT TARGETS

WOODS

TREES

ISBKD

2 TYPES NARROW SLOTS

SERGIO SANTIBANEZ ARZATE
DB 440 PG 476

ALBERTA PHELPS
DB 174 PG 28

ELMER & RUSHA F. NORMAN
LOTS 3, 4,5

CLEO HOLLY & PAUL MOORE
DB 283 PG 705

OTIS & AZZELIA NORMAN
DB 156 PG 237

WILLIAM H. BAUM & WFE, ELMA O. BAUM
DB 267 PG 64

KENNEDY L. BARBER
DB 380 PG 304

IS BLK BUS

GRAVEL DR

HENRY & CORINTHIA ALEXANDER
DB 297 PG 429

ROM LEE NORMAN HEIRS
DB 94 PG 71

N 40° 09' 30.8" E

S 40° 09' 30.8" W

N 40°0'48" E 131.50'

N 40°0'48" E 61.46'

S 40°0'48" W 60.99'

N 40°15'12" E 47.47'

S 36°34'47" W 50.8'

N 39°44'47" E 38.22'

N 49°43'58" E 84.92'

N 49°43'58" E 205.00'

N 49°43'58" E 196.68'

S 49°43'58" E 209.81'

S 49°43'58" E 84.92'

S 49°43'58" E 205.00'

S 49°43'58" E 196.68'

N 85°56'52" E 209.66'

S 37°59'58" E 429.48'

S 40°45'26" W 40.24'

S 37°59'58" E 20.42'

N 24°56'59" E 60.00'

N 24°56'59" E 55.46'

N 37°44'47" E 50.8'

NC 32 28'85T

UNLESS OTHERWISE STATED

DA.... lto PAYIII

PROJECT REFERENCE NO.	SHEET NO
R-3620	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-YJ- CVNE DATA
PI Sla 2...01110
II. - 5S'5I2T2'(Rfl
D - J"57'052'
T - 7J6.54'
R - 1.4501XJ'

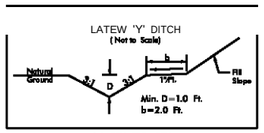
-Y2- CVNE DATA

PI Sla 12H8.58
II. - 6J"4SOTJ'llrr1
D - W19'52
L - ""<HM
T - 248.58
R - ijOOJJO'

PI Sla 15+J9J2
II. - str2B' 382'ILT1
D - 28".J8'5211'
L - 176.20'
T - 94.28'
R - 200110'

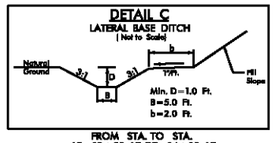
NAD 83

LATEW 'Y' DITCH
(Not to Scale)



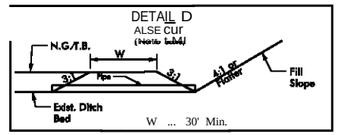
roM STA.TO STA.
-'a-10+50 LT TO 16+00 LT
-Y2- 14+00 U TO 16+00 RT

DETAIL C
LATERAL BASE DITCH
(Not to Scale)



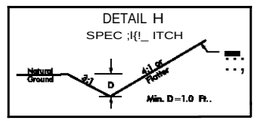
FROM STA. TO STA.
-Y1- 12+50 LT TO 14+00 LT

DETAIL D
ALSE CUr
(Hontc Lubd)

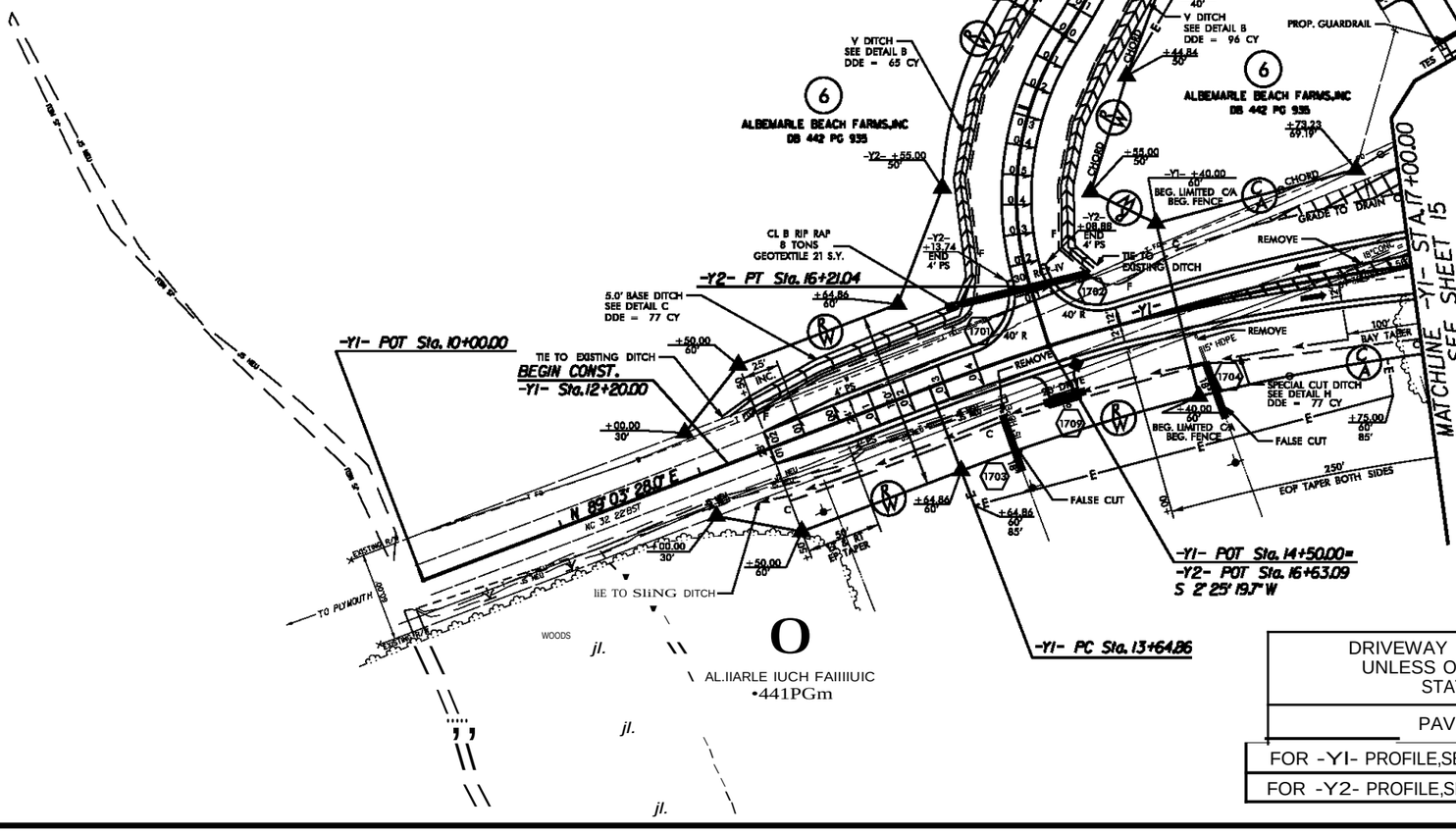


ROM STA.TO STA.
-Y1-14+05 IT
-Y1- 15+50 IT

DETAIL H
SPEC ;I(!_ ITCH



-Y1- 12+50 rr TO 16+50 rr
-Y2- 10+50 IT TO 13+50 RT



DRIVEWAY RADII IS 10' UNLESS OTHERWISE STATED
PAVEMENT REMOVAL
FOR -Y1- PROFILE,SEE SHEET NO. 25
FOR -Y2- PROFILE,SEE SHEET NO. 26

03-DEC-2013 jl:3l
R:\Roadway\Pro\R3620_Rdy_psh_17.dg

PIOJECTIU! EIUINCE NO. R-3620 | SHIE NO. 18
WON SHEET NO.
IOIDNI>.Y DESIGN ENGINEEI | HYDRAUUCS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR -YI- PROFILE,SEE SHEET NO.26

DRIVEWAY RADII IS 10' UNLESS OTHERWISE STATED

DETAIL H
SP!C ; 2ITCH
Natural Ground
Min. D=1.0 Ft.
-YI- 20+50 m' TO 21+70 m'

DETAIL D
FALSE CUT
(Not to Scale)
N.G./T.B.
Pipe
Exist. Ditch Bed
Fill Slopr
W ... 30' Min.
110M ST"-TO STA -YI- 27+.5 IT

-YI-
Pf Sla 21-101.40
O • *SJ'Sf ZTZfRT'I*
D - J"51'0SZ
L - /.J62S9'
T - 7J6.54'
R - II45IJIJ(I

NAD 83

HENRY YATES PROPERTIES DB 444 PG 139
DAVID R. PAYNE DB 442 PG 352
ABANDONED HTRS
GRADE TO DRAIN
REMOVE
CHORD
60' DRIVE
40' DRIVE
2' PS
-YI-
S 3T 05' 04E E1
EXISTING R/W
TO CRESWELL
ENDCiiiiST-.
-YJ- Sto.28+70JXJ
TIE TO EXISTING DITCH
SPECIAL CUT DITCH SEE DETAIL H
FALSE CUT SEE DETAIL D
BILLBOARDS
PUE
-YI- Pr SltJ. ZT+ZTIJS
-YI- PUT SltJ. J2+4T.24
MATCHLINE -YI- STA.25+00.00 SEE SHEET 15
AL.YARLE ACIES.LLC
'G 45'

03-DEC-2013 11:31
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$$$$USERNAME$$$$