TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TENN.	YEAR	SHEET NO.
	2012	1
FED. AID PROJ. NO.	STP-32(74)	
STATE PROJ. NO.	15005-2262-14	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

COCKE COUNTY

S.R. 32 (U.S. 321)
FROM: S.R. 73 (WILTON SPRINGS RD.) (LM 17.95)
TO: ½ MILE SOUTH OF I-40 (LM 23.10)
IN NEWPORT

RIGHT-OF-WAY

STATE HIGHWAY NO. 32 F.A.H.S. NO. 32

Index Of Sheets

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1	TITLE SHEET
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3	R.O.W. NOTES & UTILITY OWNERS
3A-3F	PROPERTY MAPS
3G-3I	ACQUISITION TABLES
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30-30F	PROFILES OF PRIVATE DRIVES
31-36	DRAINAGE MAPS
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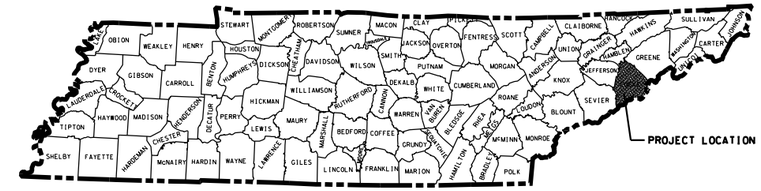
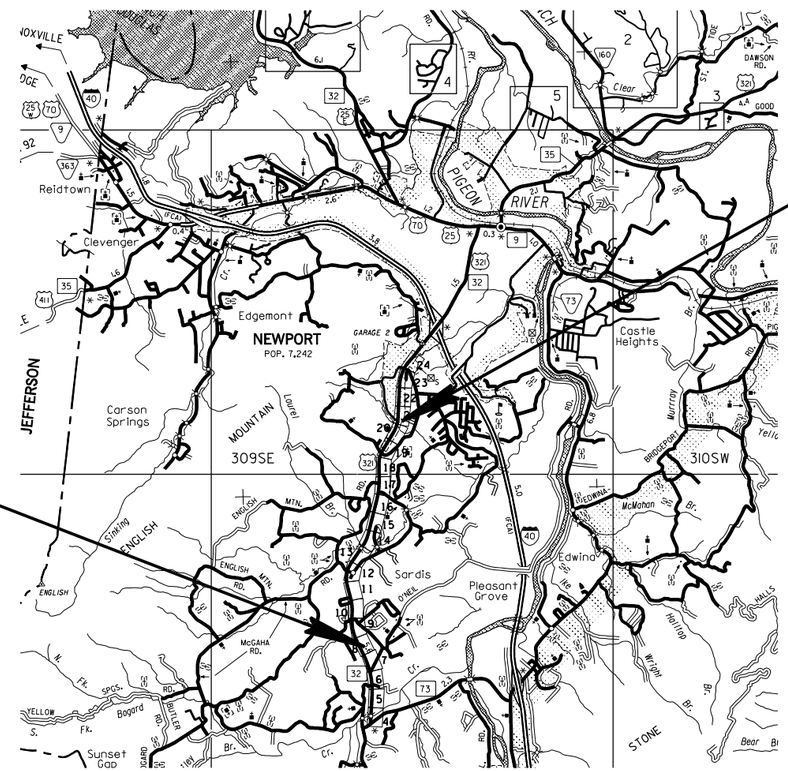
378-379	COSBY CUTOFF NO. 2 CROSS SECTION SHEETS
380-381	EPLEY ROAD CROSS SECTION SHEETS



NO EXCLUSIONS
NO EQUATIONS

15005-2262-14
END PROJ. NO. STP-32(74) R.O.W.
STA. 323+71.65

15005-2262-14
BEGIN PROJ. NO. STP-32(74) R.O.W.
STA. 156+97.08



SCALE: 1"= 1 MILE

R.O.W. LENGTH 3.158 MILES

SEALED BY
HYDRAULIC GRADE APPROVAL

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SURVEY DATE: JULY 23, 2008

TRAFFIC DATA	
ADT (2012)	9000
ADT (2032)	15140
DHV (2032)	1363
D	60 - 40
T (ADT)	2 %
T (DHV)	3 %
V	60 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT TRANSPORTATION MANAGER 1 CLIFFORD F. STEWART
DESIGNED BY FLORENCE & HUTCHESON
DESIGNER TERESA S. SNOW CHECKED BY BRIAN TROTTER, PE
P.E. NO. 15005-1238-14
PIN NO. 107349.00

8/7/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
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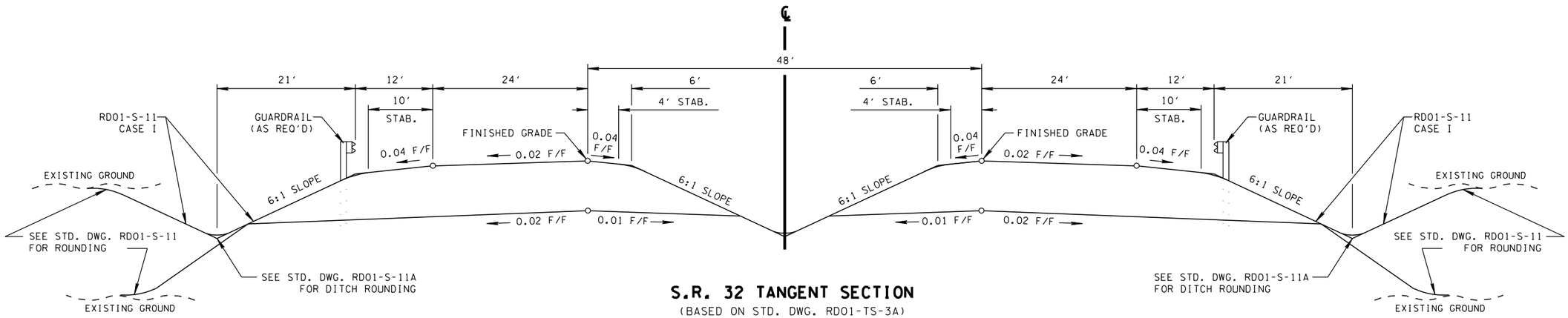
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	2



S.R. 32 TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-3A)

STA. 102+51.42 TO STA. 111+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

8/7/2012
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TENNESSEE D.O.T.
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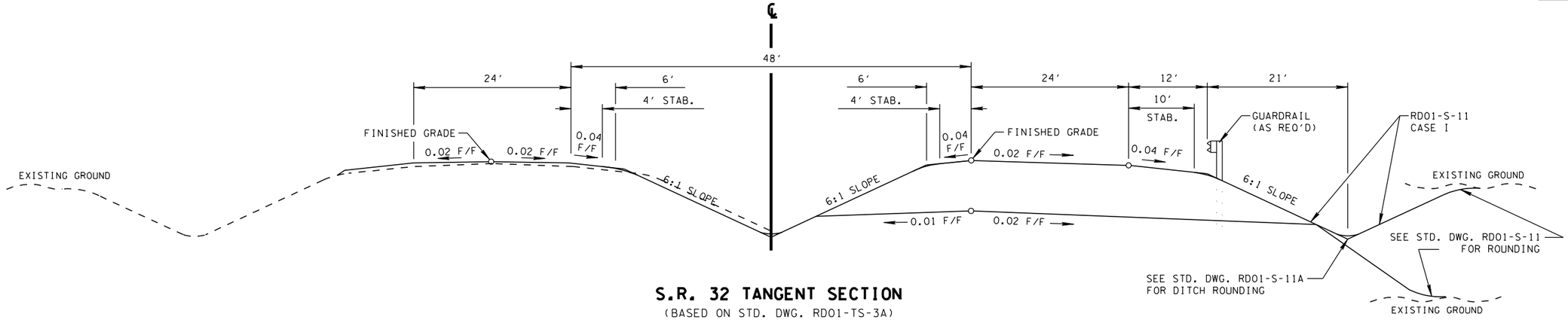
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	2A

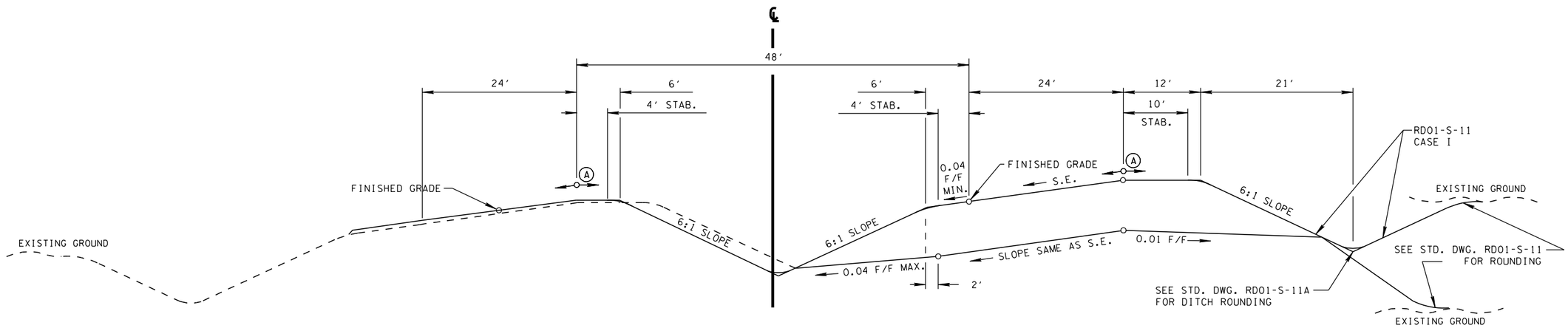


S.R. 32 TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-3A)

STA. 111+00.00 TO STA. 120+47.33
STA. 152+14.73 TO STA. 163+15.19
STA. 177+92.29 TO STA. 182+75.57
STA. 193+39.75 TO STA. 199+71.82
STA. 219+44.60 TO STA. 231+17.48
STA. 242+60.82 TO STA. 264+59.90
STA. 281+61.56 TO STA. 289+55.21
STA. 302+46.56 TO STA. 313+80.55
STA. 328+38.11 TO STA. 347+00.00

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



S.R. 32 SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-3A)

STA. 120+47.33 TO STA. 152+14.73
STA. 163+15.19 TO STA. 177+92.29
STA. 182+75.57 TO STA. 193+39.75
STA. 199+71.82 TO STA. 219+44.60
STA. 231+17.48 TO STA. 242+60.82
STA. 264+59.90 TO STA. 281+61.56
STA. 289+55.21 TO STA. 302+46.56
STA. 313+80.55 TO STA. 328+38.11
STA. 347+00.00 TO STA. 358+00.00 (MED. TRANS.)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

8/7/2012
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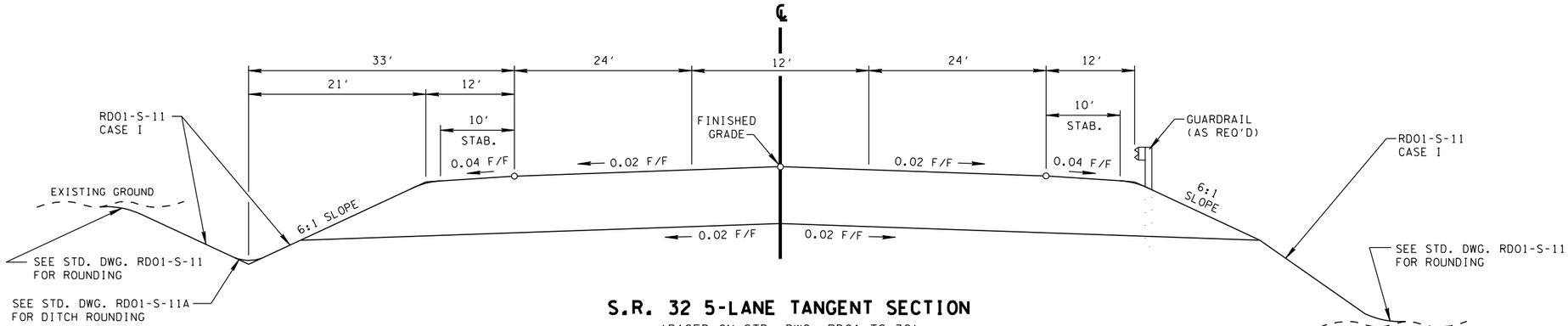
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	2B

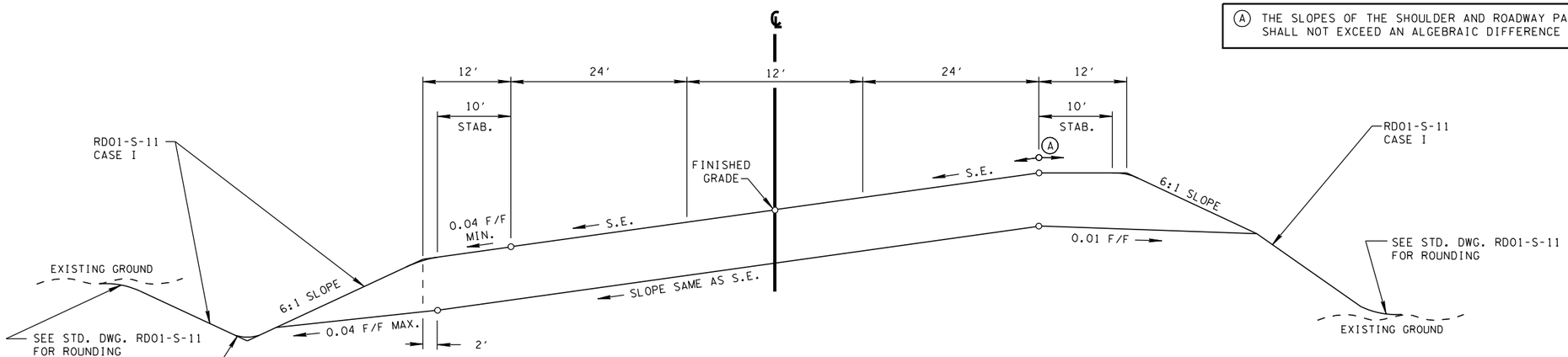


S.R. 32 5-LANE TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-3C)

STA. 367+77.42 TO STA. 372+64.07

Ⓐ THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



S.R. 32 5-LANE SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-3C)

STA. 358+00.00 TO STA. 367+77.42

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

8/7/2012
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TENNESSEE D.O.T.
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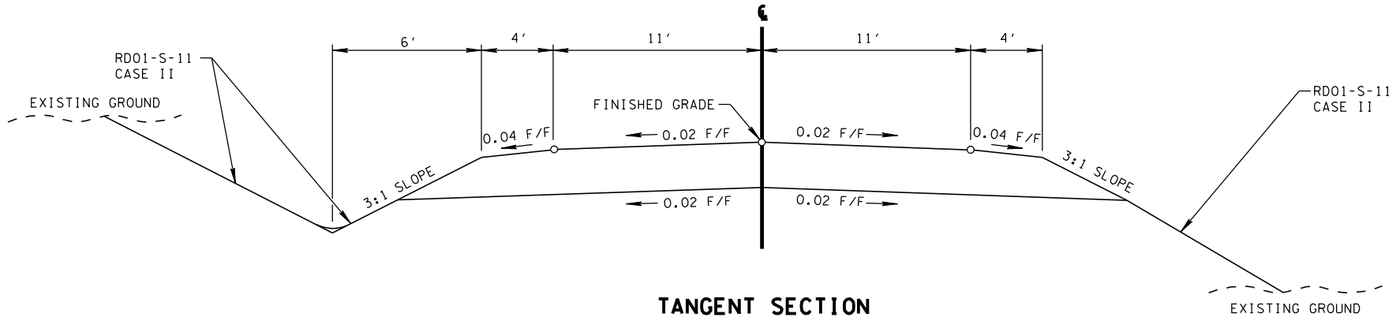
R.O.W.	2012	STP-32(74)	2C

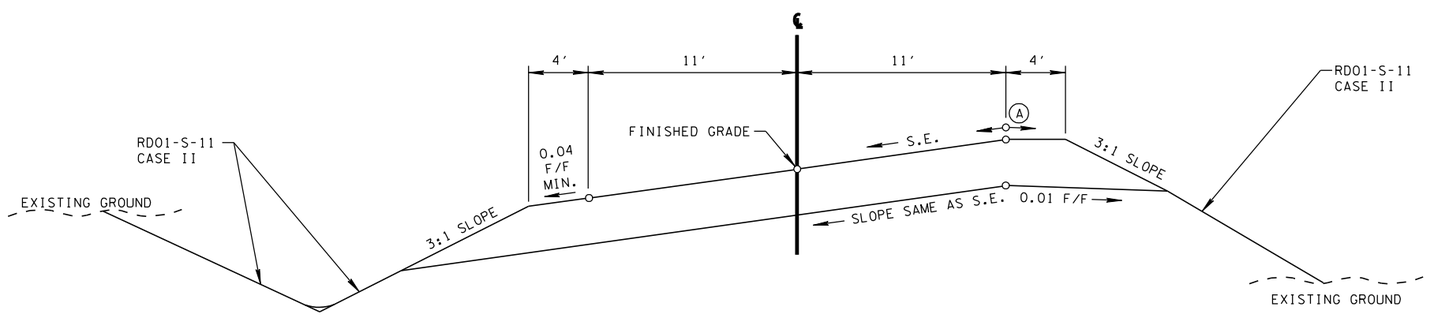


TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1)

OLD HWY 32 NO. 1 STA. 20+48.01 TO STA. 21+56.20
ARMORY RD. NO. 1 STA. 40+48.00 TO STA. 43+95.84
MAJ. JIM BURNETT DR. STA. 50+48.00 TO STA. 51+00.00
ARMORY RD. NO. 2 STA. 60+48.00 TO STA. 60+90.58
COSBY CUTOFF NO. 1 STA. 70+47.97 TO STA. 71+02.00

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1)

REBEL RD. STA. 10+48.01 TO STA. 13+50.00
OLD HWY 32 NO. 1 STA. 21+56.60 TO STA. 23+00.00
OLD HWY 32 NO. 2 STA. 30+47.96 TO STA. 33+50.00
ARMORY RD. NO. 2 STA. 60+90.58 TO STA. 64+00.00
COSBY CUTOFF NO. 2 STA. 80+30.79 TO STA. 83+60.00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

8/7/2012
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TENNESSEE D.O.T.
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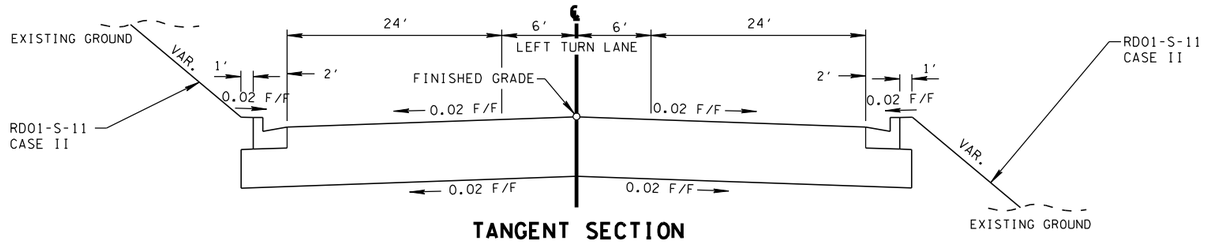
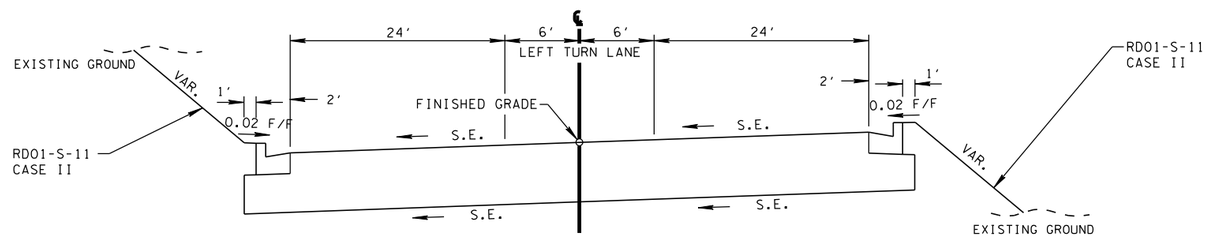
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	2D



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6A)

EPLEY ROAD STA. 77+00.00 TO STA. 78+62.86



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-6A)

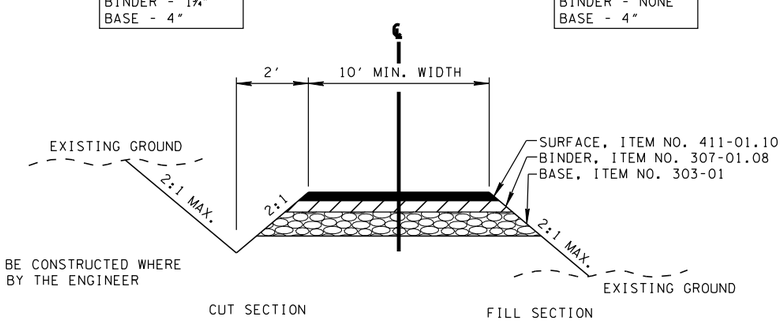
EPLEY ROAD STA. 78+62.86 TO STA. 79+69.23

BUSINESS

SURFACE - 1¼"
BINDER - 1¾"
BASE - 4"

FIELD OR RESIDENTIAL

SURFACE - 1½"
BINDER - NONE
BASE - 4"



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

8/17/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
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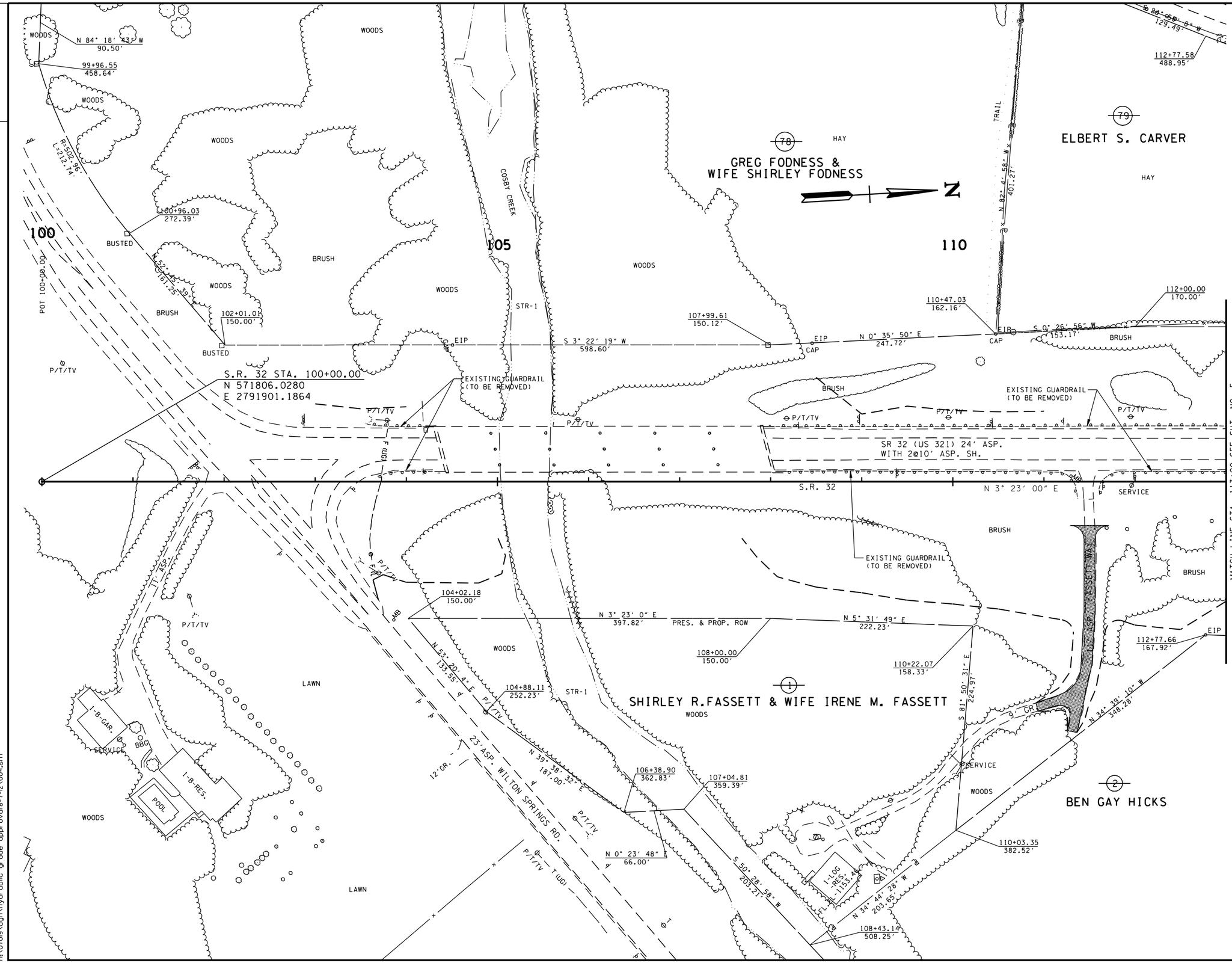
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	4



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

BEGIN PROJ. TO STA. 113+00

SCALE: 1"= 50'

8/7/2012
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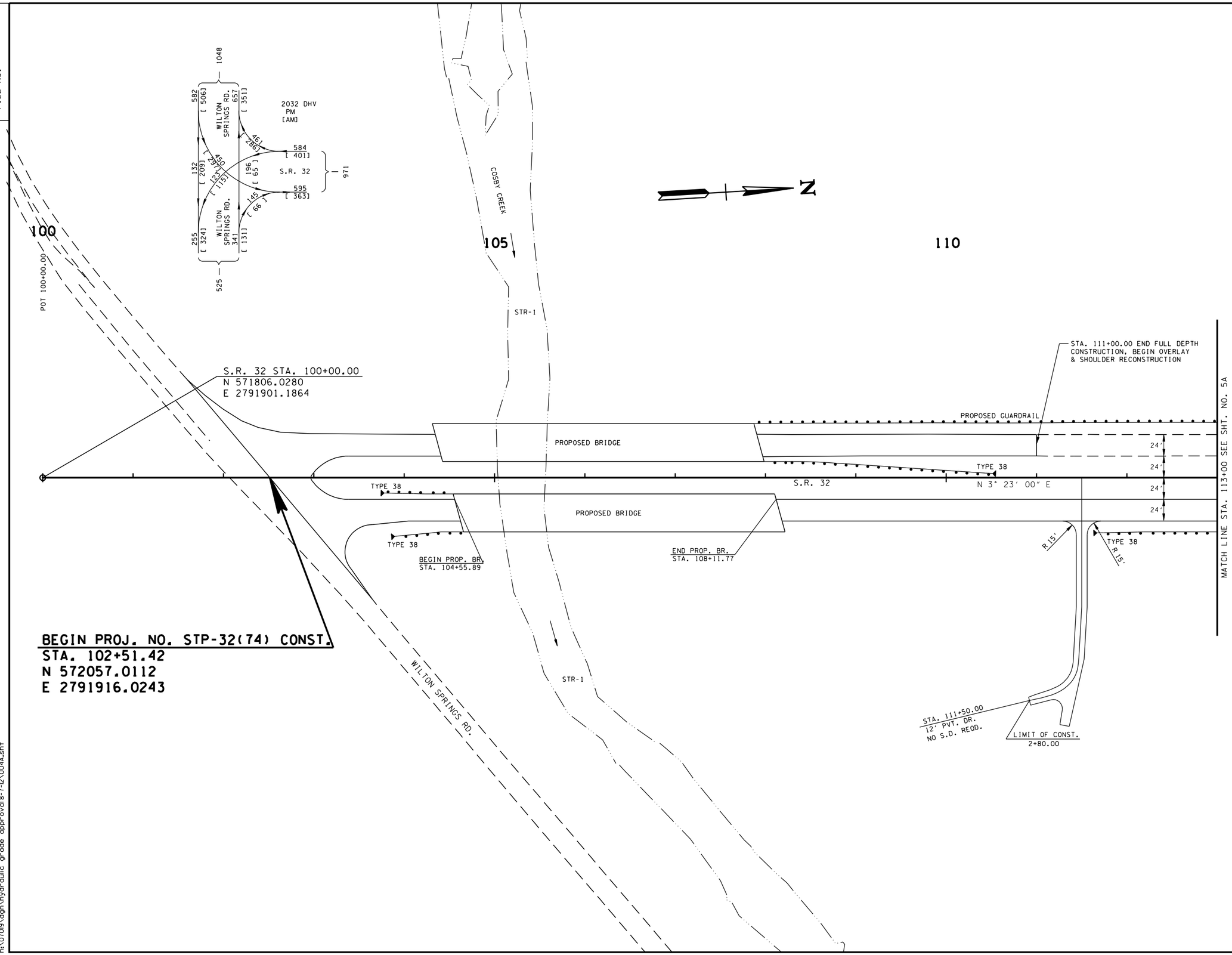
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	4A



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

BEGIN PROJ. TO STA. 113+00

SCALE: 1"= 50'

8/7/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	4B

DISCLAIMER

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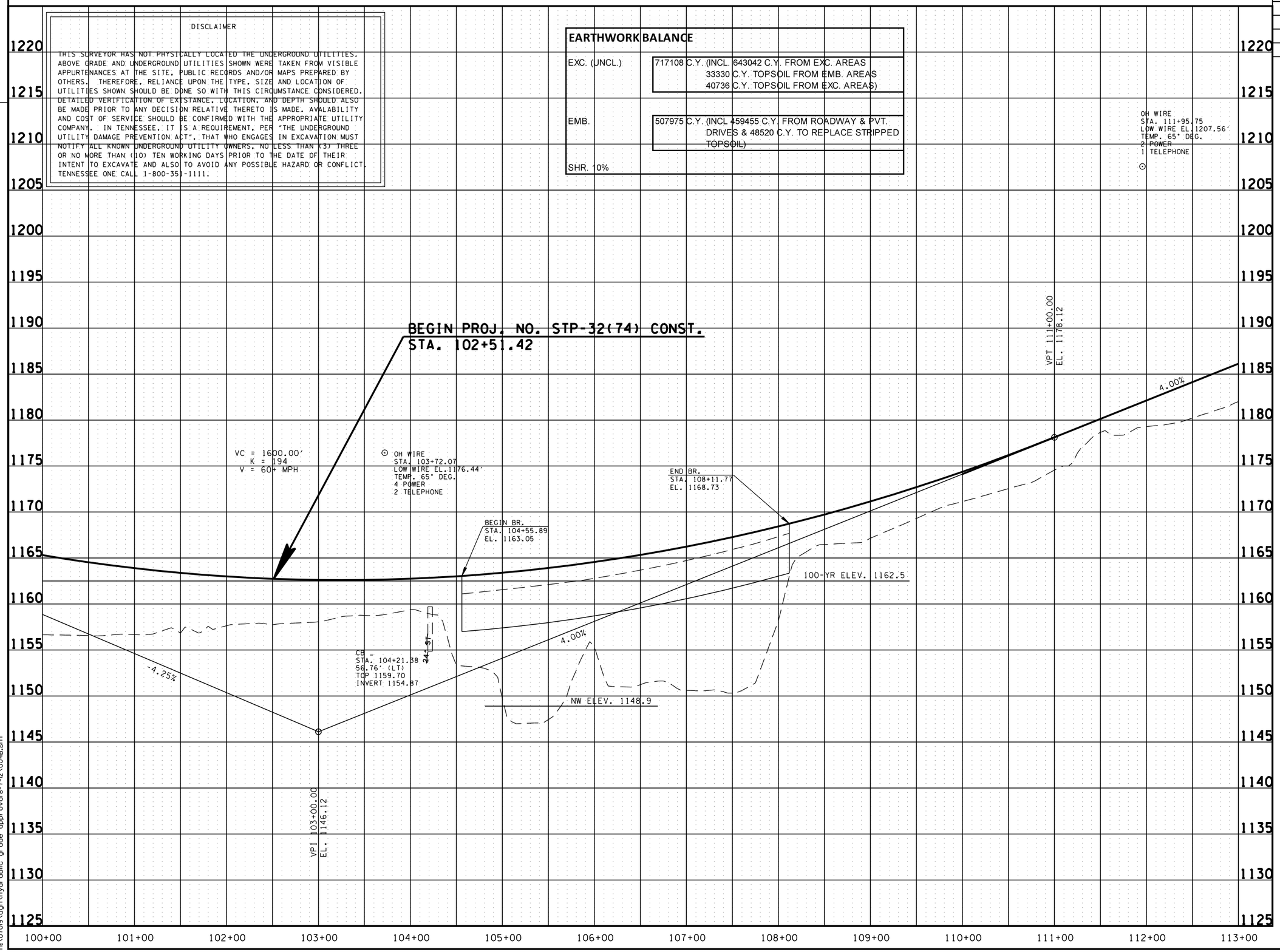
EARTHWORK BALANCE

EXC. (UNCL.)	717108 C.Y. (INCL. 643042 C.Y. FROM EXC. AREAS 33330 C.Y. TOPSOIL FROM EMB. AREAS 40736 C.Y. TOPSOIL FROM EXC. AREAS)
EMB.	507975 C.Y. (INCL 459455 C.Y. FROM ROADWAY & PVT. DRIVES & 48520 C.Y. TO REPLACE STRIPPED TOPSOIL)
SHR. 10%	



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

BEGIN PROJ. TO STA. 113+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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TENNESSEE D.O.T.
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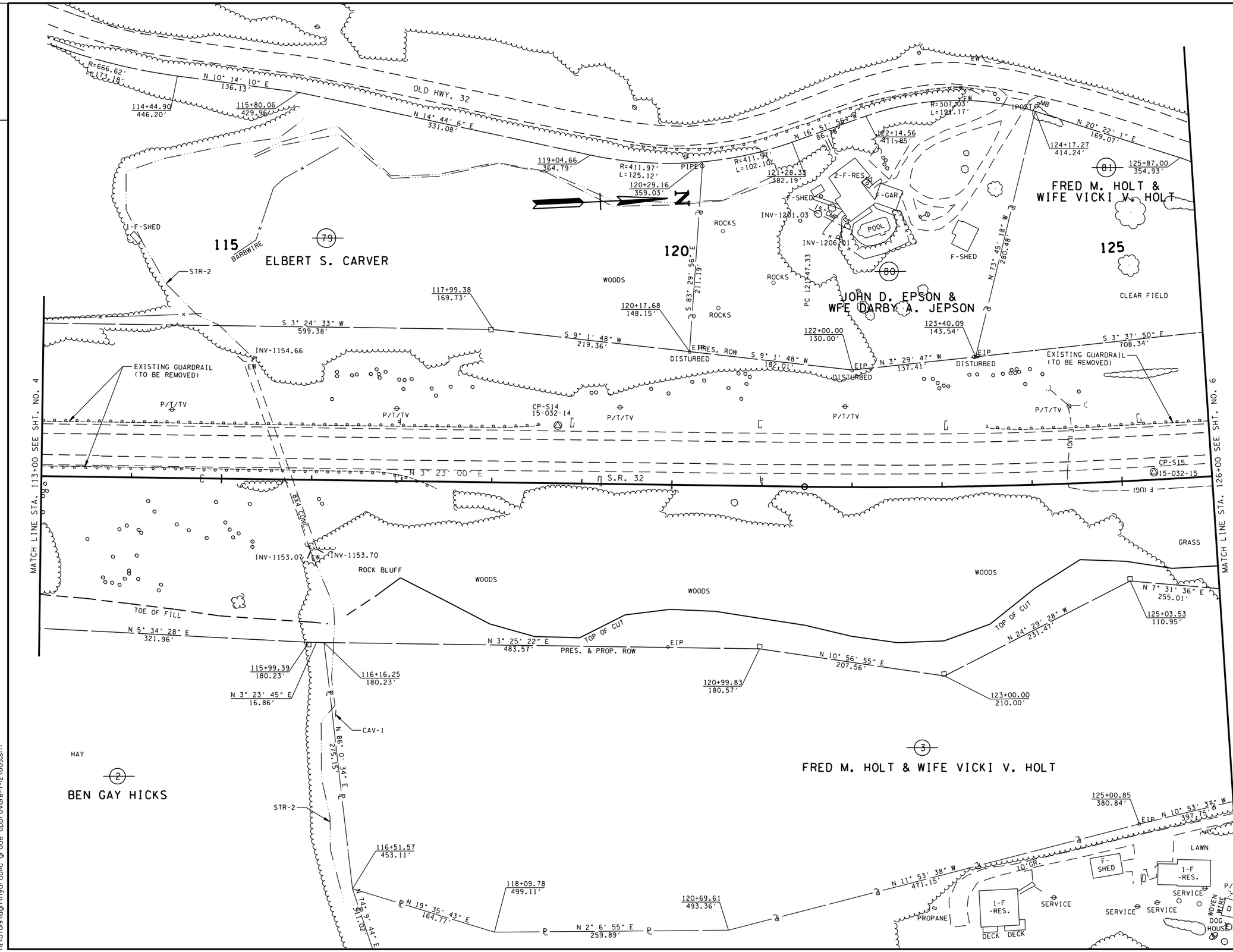
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	5



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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 113+00 TO STA. 126+00

SCALE: 1"= 50'

8/7/2012
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TENNESSEE D.O.T.
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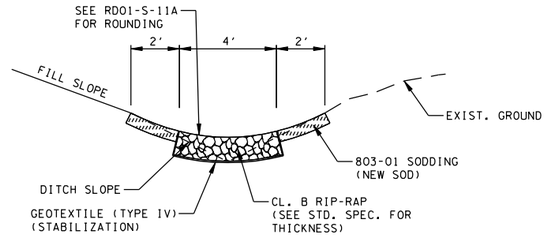
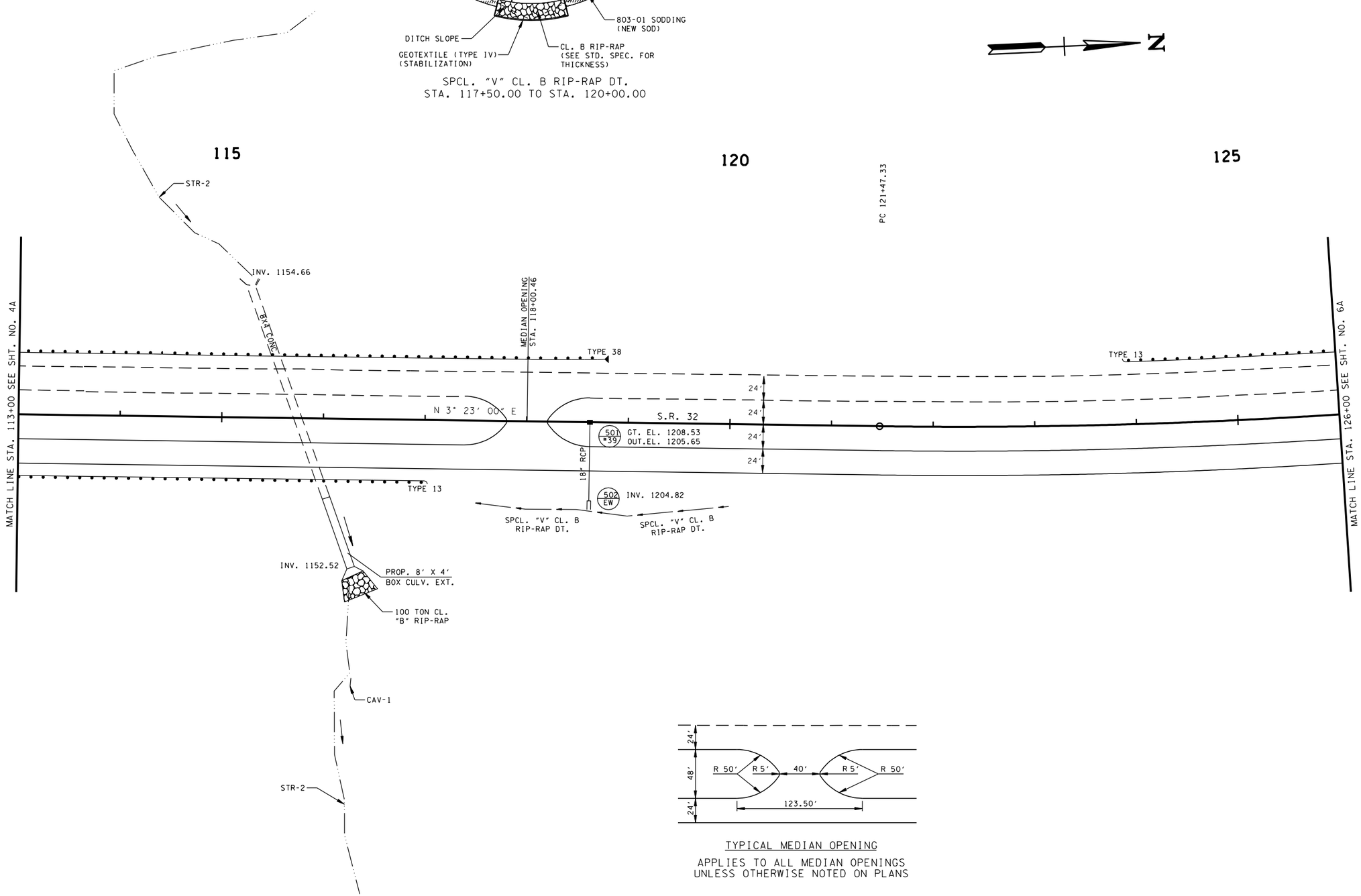
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	5A



SPCL. "V" CL. B RIP-RAP DT.
STA. 117+50.00 TO STA. 120+00.00



TYPICAL MEDIAN OPENING

APPLIES TO ALL MEDIAN OPENINGS
UNLESS OTHERWISE NOTED ON PLANS

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 113+00 TO STA. 126+00

SCALE: 1"= 50'

8/7/2012
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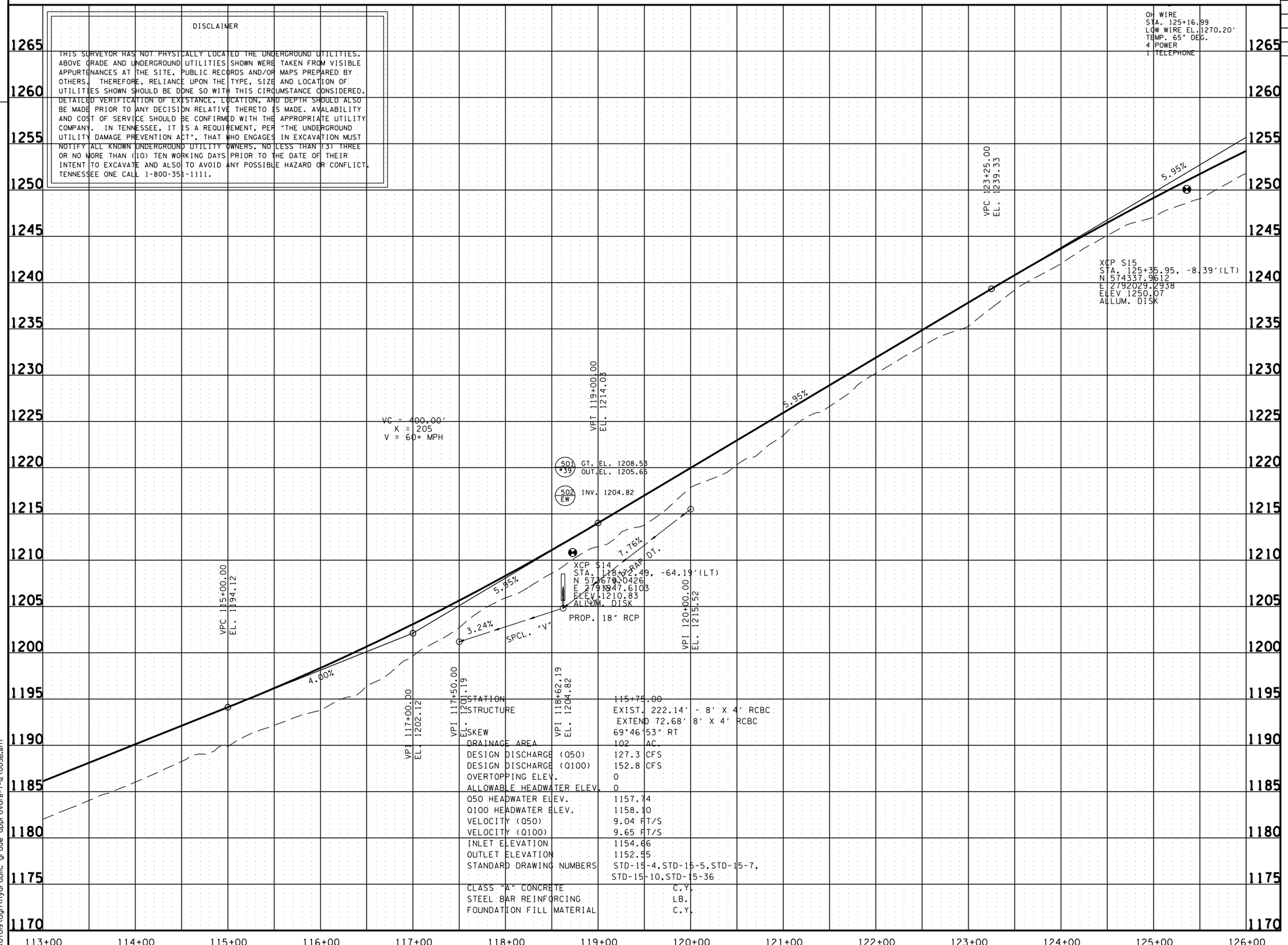

STATION	115+75.00
STRUCTURE	EXIST. 222.14' - 8' X 4' RCBC
	EXTEND 72.68' 8' X 4' RCBC
SKEW	69°46'53" RT
DRAINAGE AREA	102 AC.
DESIGN DISCHARGE (Q50)	127.3 CFS
DESIGN DISCHARGE (Q100)	152.8 CFS
OVERTOPPING ELEV.	0
ALLOWABLE HEADWATER ELEV.	0
Q50 HEADWATER ELEV.	1157.74
Q100 HEADWATER ELEV.	1158.10
VELOCITY (Q50)	9.04 FT/S
VELOCITY (Q100)	9.65 FT/S
INLET ELEVATION	1154.66
OUTLET ELEVATION	1152.55
STANDARD DRAWING NUMBERS	STD-15-4,STD-15-5,STD-15-7, STD-15-10,STD-15-36
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
FOUNDATION FILL MATERIAL	C.Y.

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HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 113+00 TO STA. 126+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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TENNESSEE D.O.T.
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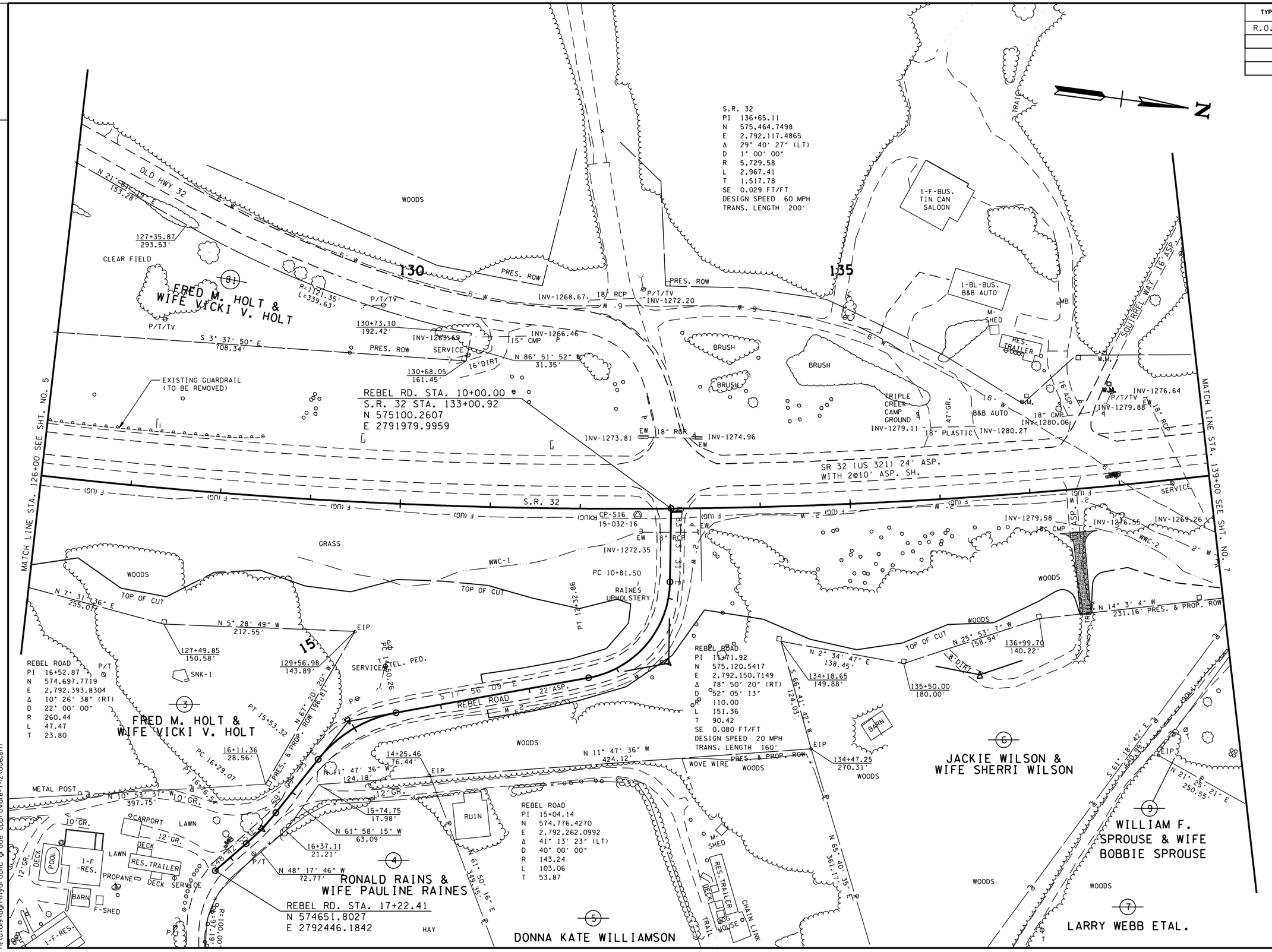
R.O.W.	2012	STP-32(74)	6



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 126+00 TO STA. 139+00

SCALE: 1"= 50'

8/7/2012
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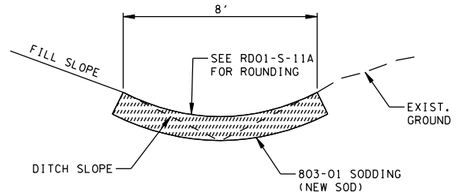
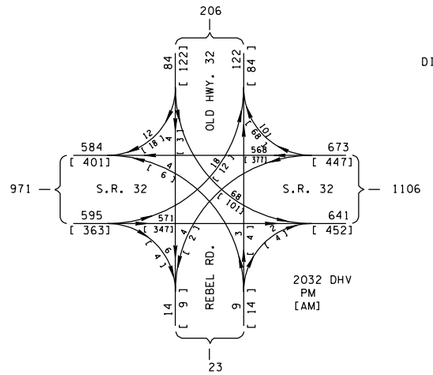
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

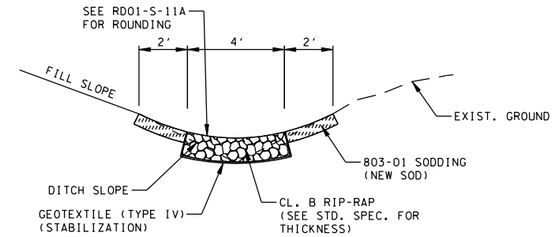
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	6A



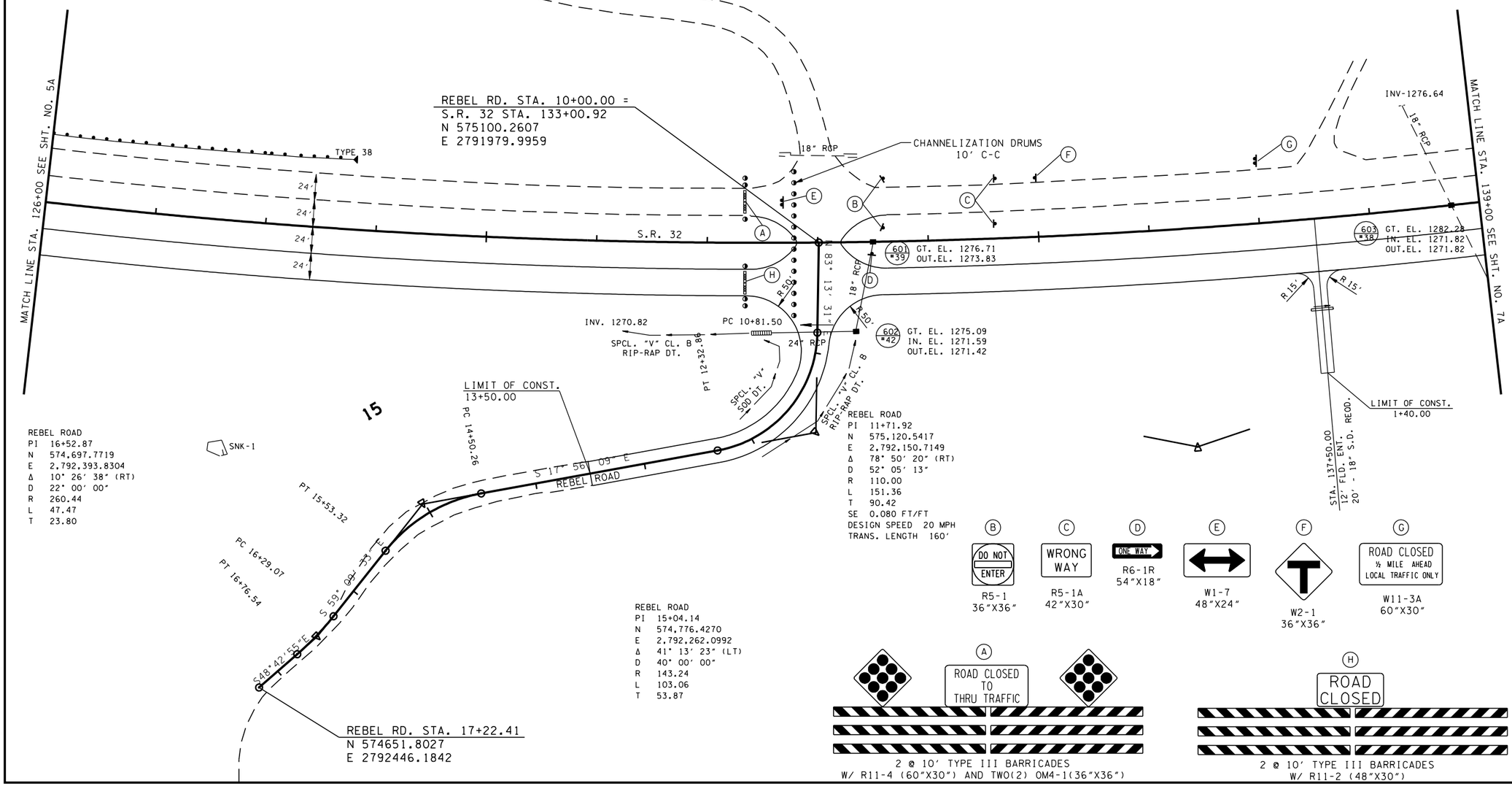
SPCL. "V" SOD DT.
STA. 10+82.40 TO STA. 12+00.00
RT. REBEL ROAD



S.R. 32
PI 136+65.11
N 575,464.7498
E 2,792,117.4865
Δ 29° 40' 27" (LT)
D 1° 00' 00"
R 5,729.58
L 2,967.41
T 1,517.78
SE 0.029 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 200'



SPCL. "V" CL. B RIP-RAP DT.
STA. 131+24.50 TO STA. 132+50.00 RT. S.R. 32
STA. 10+82.12 TO STA. 12+00.00 LT. REBEL ROAD



REBEL ROAD
PI 16+52.87
N 574,697.7719
E 2,792,393.8304
Δ 10° 26' 38" (RT)
D 22° 00' 00"
R 260.44
L 47.47
T 23.80

REBEL ROAD
PI 11+71.92
N 575,120.5417
E 2,792,150.7149
Δ 78° 50' 20" (RT)
D 52° 05' 13"
R 110.00
L 151.36
T 90.42
SE 0.080 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 160'

REBEL ROAD
PI 15+04.14
N 574,776.4270
E 2,792,262.0992
Δ 41° 13' 23" (LT)
D 40° 00' 00"
R 143.24
L 103.06
T 53.87

R5-1
36"X36"

R5-1A
42"X30"

R6-1R
54"X18"

W1-7
48"X24"

W2-1
36"X36"

W11-3A
60"X30"

2 @ 10' TYPE III BARRICADES
W/ R11-4 (60"X30") AND TWO(2) OM4-1(36"X36")

2 @ 10' TYPE III BARRICADES
W/ R11-2 (48"X30")

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 126+00 TO STA. 139+00

SCALE: 1"= 50'

8/7/2012
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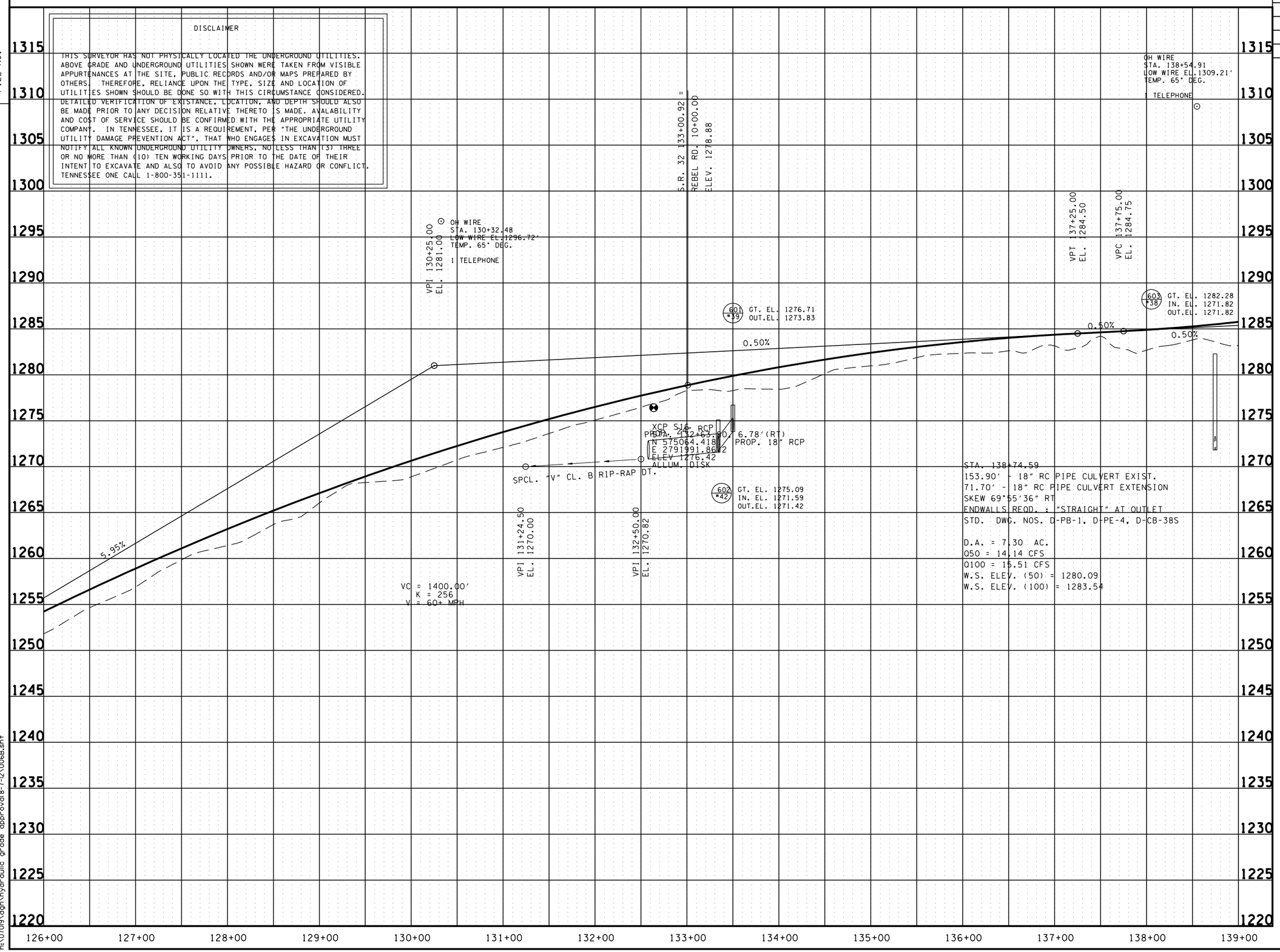
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	6B



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HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 126+10 TO STA. 139+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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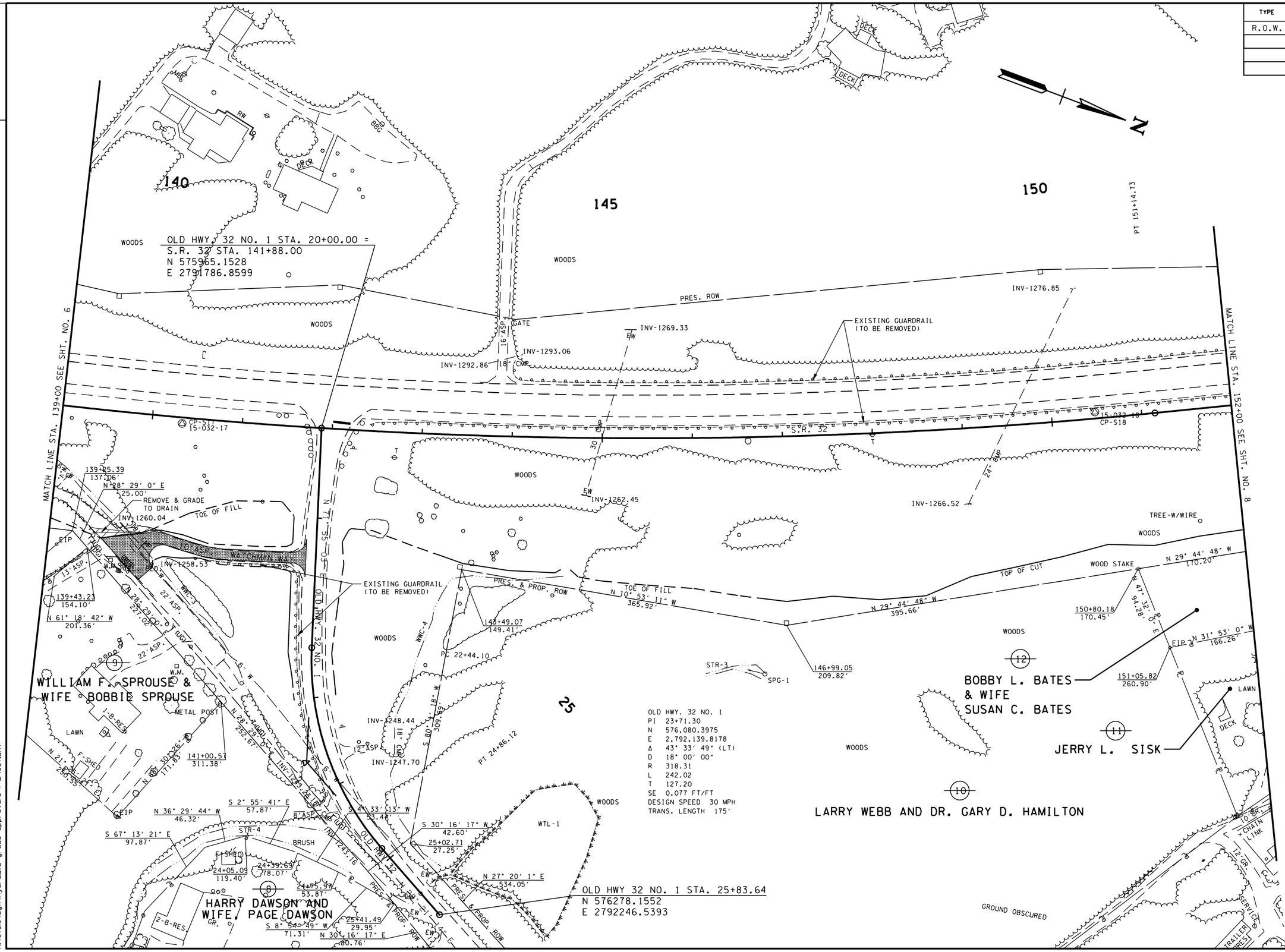
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	7



OLD HWY. 32 NO. 1
PI 23+71.30
N 576,080.3975
E 2,792,139.8178
Δ 43° 33' 49" (LT)
D 18° 00' 00"
R 318.31
L 242.02
T 127.20
SE 0.077 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 175'

SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 139+00 TO STA. 152+00

SCALE: 1"= 50'

8/17/2012
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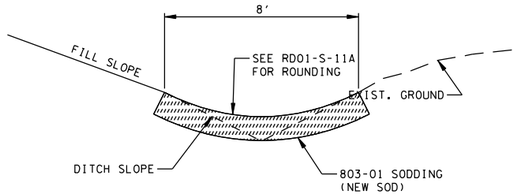
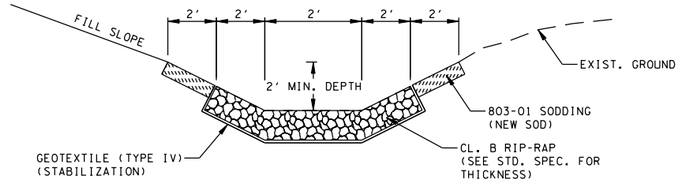
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	7A



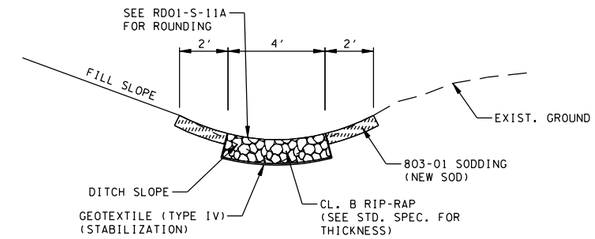
SPCL. "V" SOD DT.
STA. 143+38.75 TO STA. 144+61.26

140



SPCL. 2' F.B. CL. B RIP-RAP DT.
STA. 146+76.90 TO STA. 148+56.90

145



SPCL. "V" CL. B RIP-RAP DT.
STA. 148+56.90 TO STA. 154+50.00

150

PT 151+14.73

OLD HWY. 32 NO. 1 STA. 20+00.00 =
S.R. 32 STA. 141+88.00
N 575965.1528
E 2791786.8599

MATCH LINE STA. 139+00 SEE SHT. NO. 6A

MATCH LINE STA. 152+00 SEE SHT. NO. 8A

7' INV. 1276.85

INV. 1269.33

TYPE 13

30" CMP

24" CMP

701 #38 GT. EL. 1289.47
OUT.EL. 1270.50

24' 24' 24' 24'

S.R. 32

TYPE 13

50 TON CL. "C" RIP-RAP

R 50'

TYPE IN-LINE

18" RCP

703 JB TOP. EL. 1270.65
IN. EL. 1266.52
OUT.EL. 1266.40

INV. 1265.88

R 15'

TYPE 21

702 EW INV. 1262.00

30" CMP EXT.

24" CMP EXT.

SPCL. "V" CL. B RIP-RAP DT.

SPCL. "V" SOD DT.

INV. 1259.45

INV. 1265.47

TYPE 21

R 15'

STA. 21+45.00
WATCHMAN WAY (12')
33' - 18" S.D. REOD.

WWC-3

20 TON CL. "B" RIP-RAP

SPCL. 2' F.B. CL. B RIP-RAP DT.

LIMIT OF CONST. 2+10.00

OLD HWY. 32 NO. 1

WWC-4

PC 22+44.10

STR-3

SPG-1

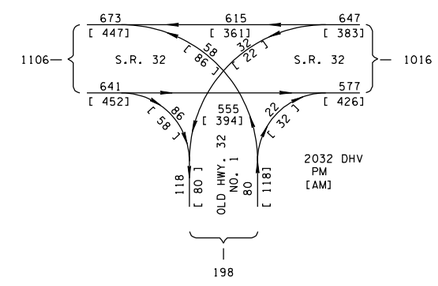
25

TIE TO EXIST. GUARDRAIL
STA. 23+00.00

LIMIT OF CONST.
23+00.00

PT 24+86.12

OLD HWY. 32 NO. 1
PI 23+71.30
N 576,080.3975
E 2,792,139.8178
Δ 43° 33' 49" (LT)
D 18° 00' 00"
R 318.31
L 242.02
T 127.20
SE 0.077 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 175'



STR-4

WTL-1

OLD HWY 32 NO. 1 STA. 25+83.64
N 576278.1552
E 2792246.5393

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 139+00 TO STA. 152+00

SCALE: 1"= 50'

8/7/2012
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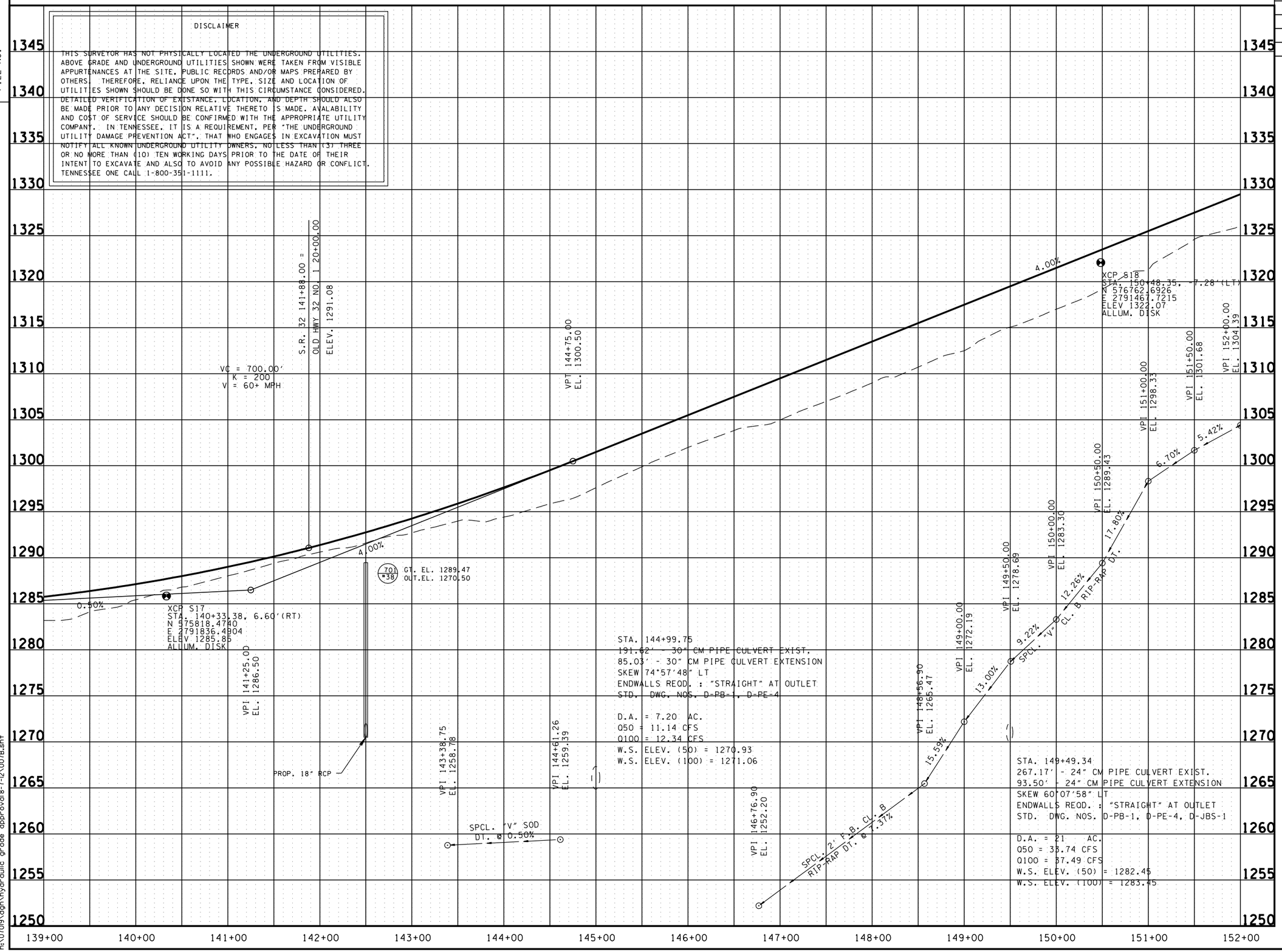
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	7B



SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 139+00 TO STA. 152+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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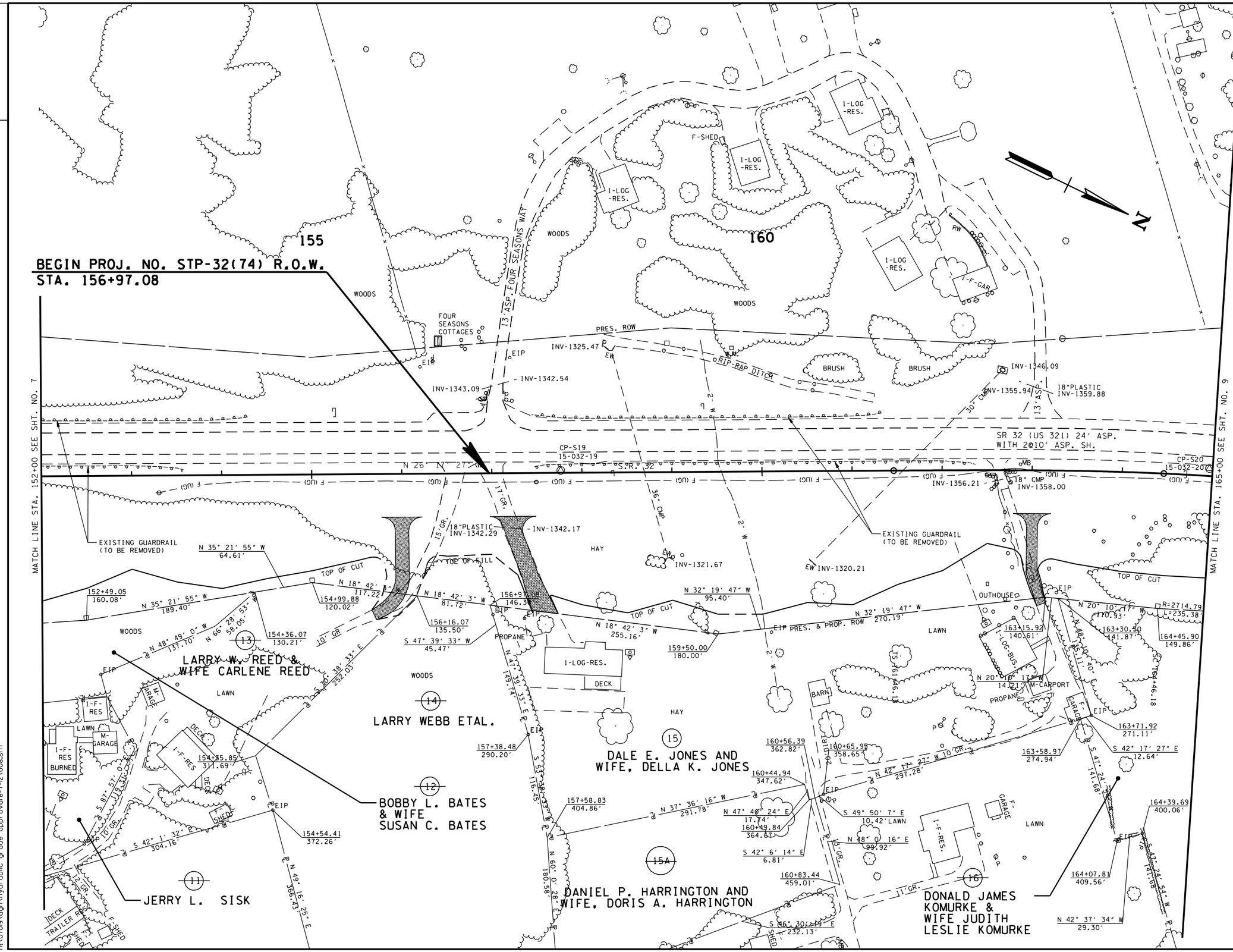
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	8



8/7/2012
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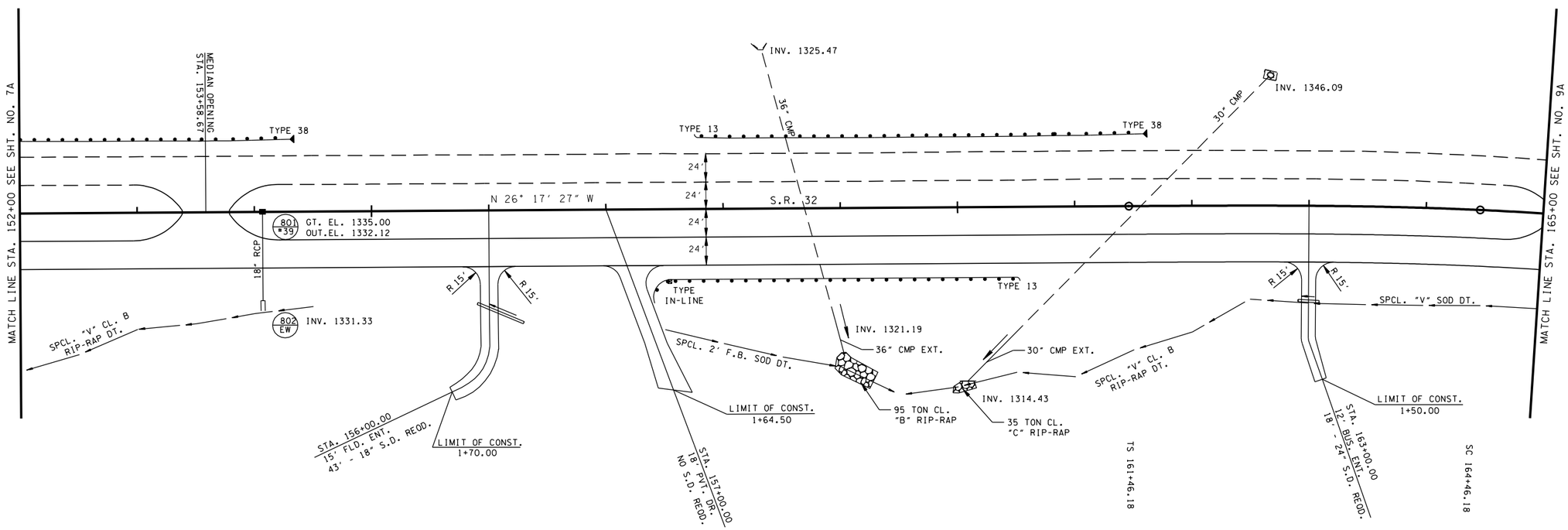
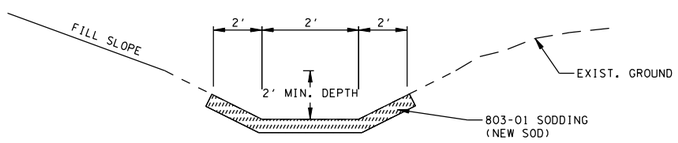
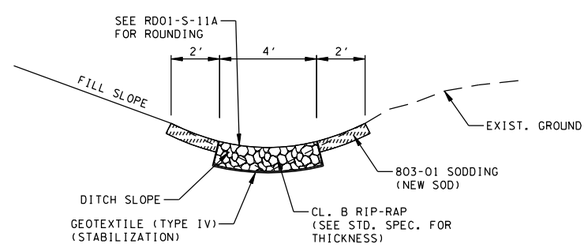
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	8A

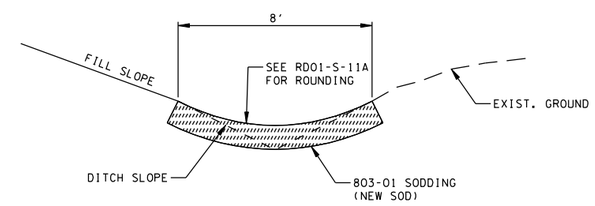




SPCL. 2' F.B. SOD DT.
STA. 157+50.00 TO STA. 159+50.00



SPCL. "V" CL. B RIP-RAP DT.
STA. 148+56.90 TO STA. 154+50.00
STA. 160+00.00 TO STA. 162+50.00



SPCL. "V" SOD DT.
STA. 162+50.00 TO STA. 165+50.00

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HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 152+00 TO STA. 165+00

SCALE: 1"= 50'

8/7/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	8B

DISCLAIMER

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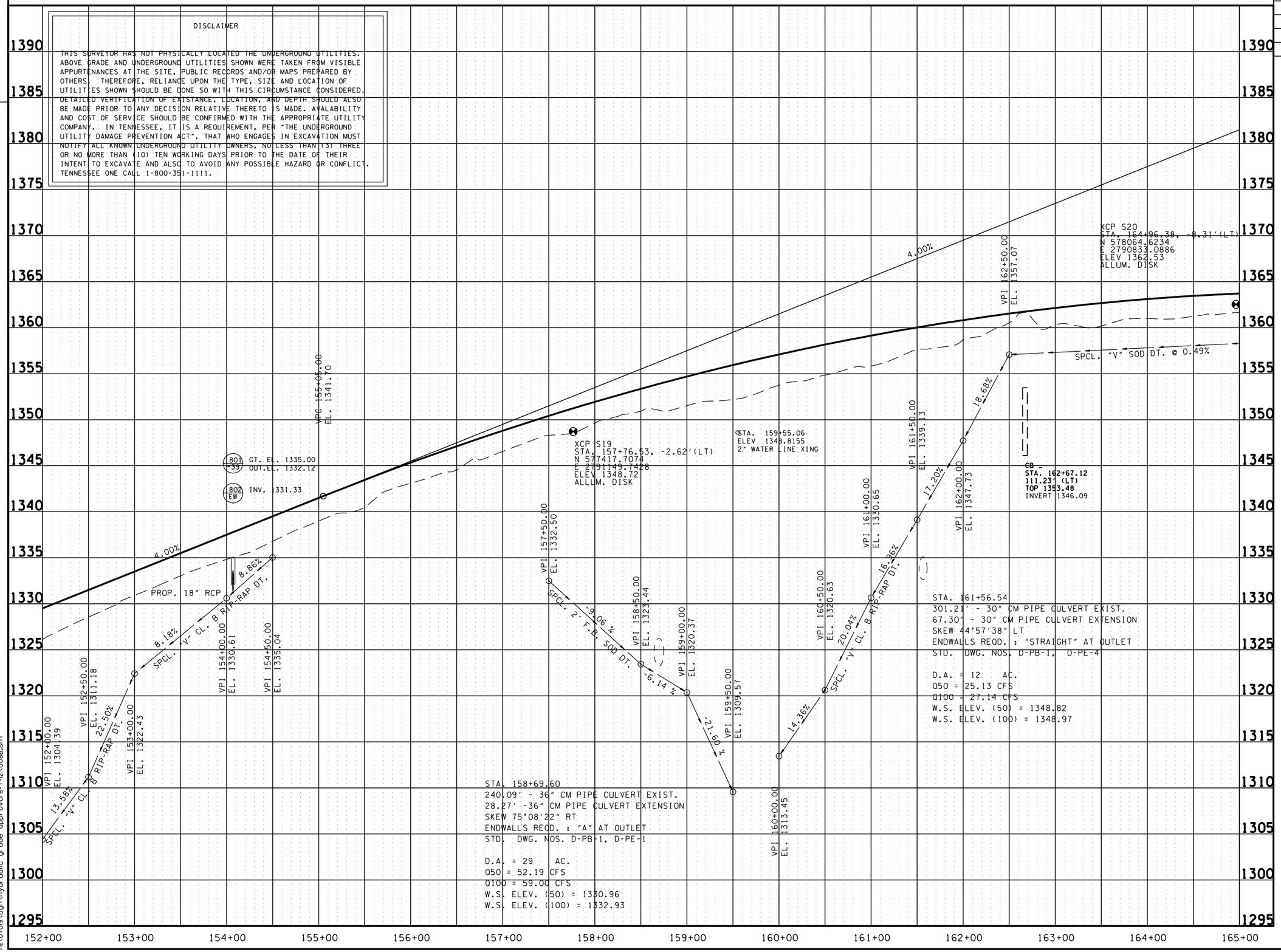

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 152+00 TO STA. 165+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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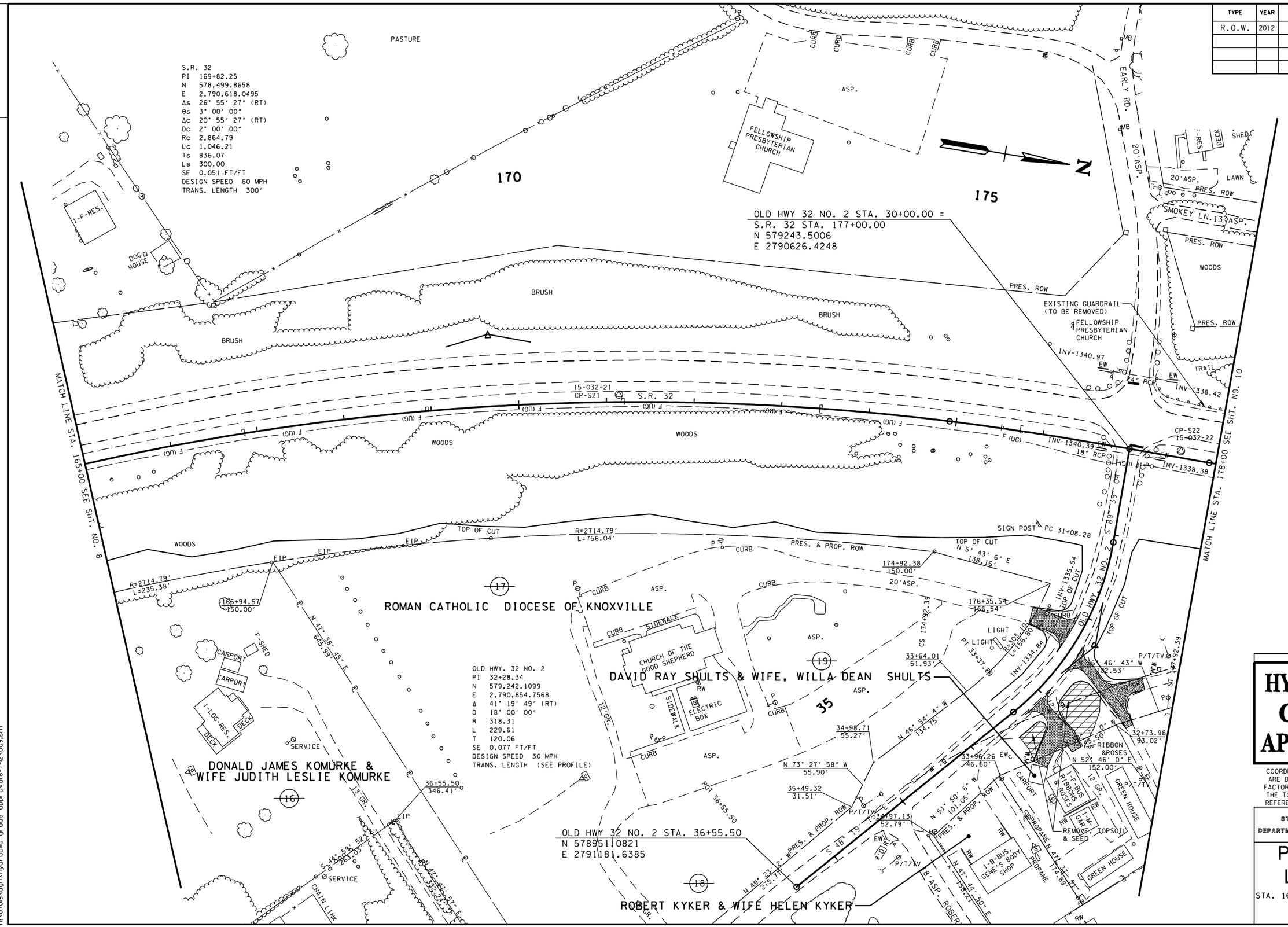
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	9



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 165+00 TO STA. 178+00

SCALE: 1"= 50'

8/7/2012
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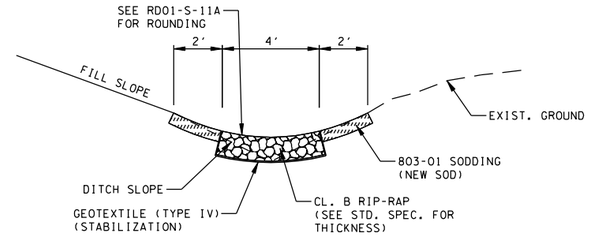
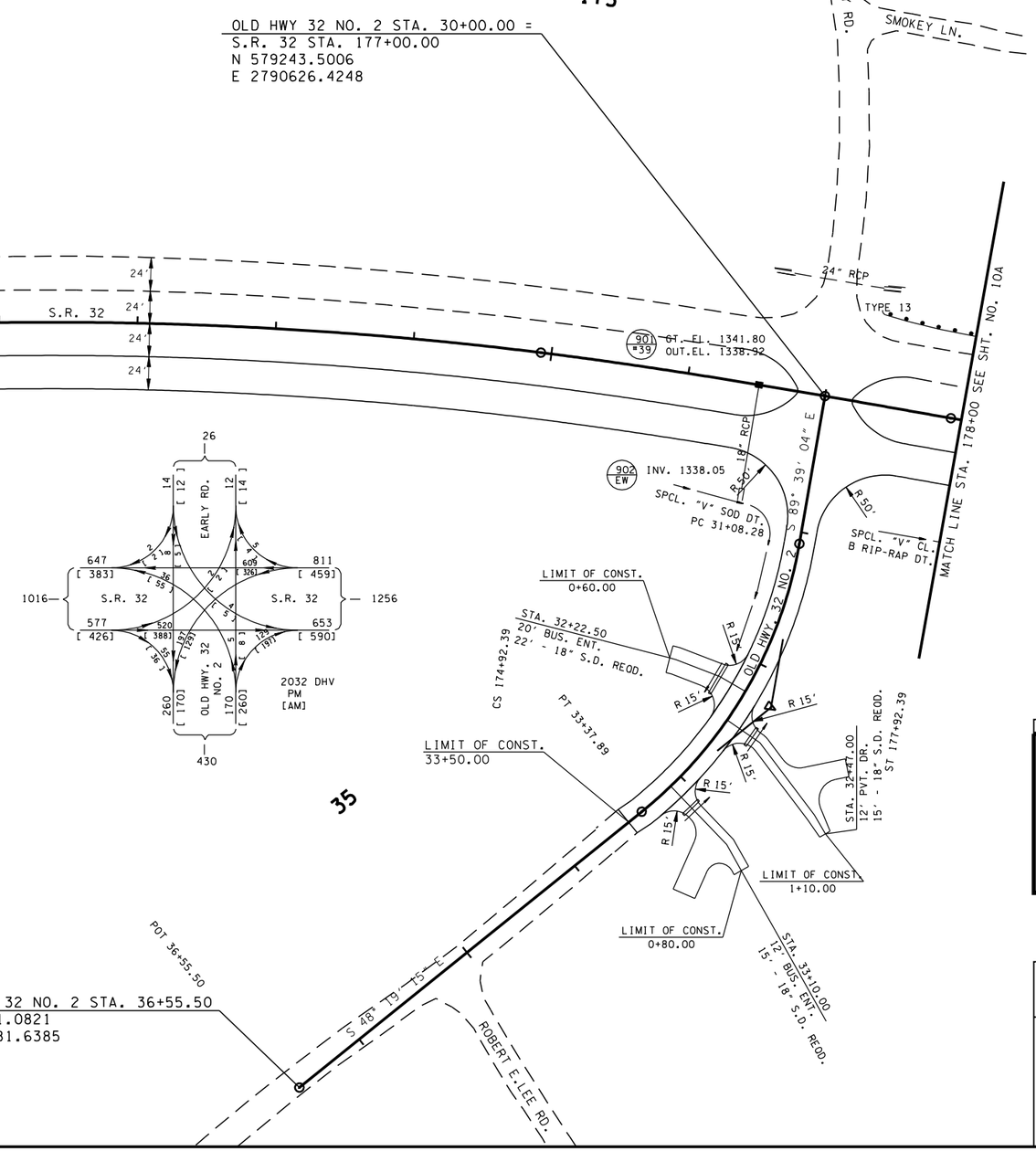
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	9A

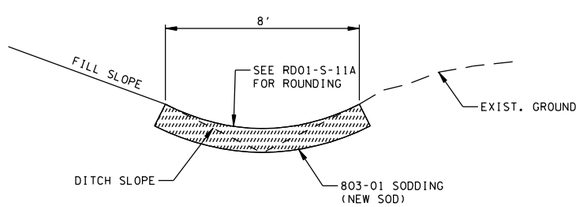
S.R. 32
PI 169+82.25
N 578,499.8658
E 2,790,618.0495
Δs 26° 55′ 27″ (RT)
θs 3° 00′ 00″
Δc 20° 55′ 27″ (RT)
Dc 2° 00′ 00″
Rc 2,864.79
Lc 1,046.21
Ts 836.07
Ls 300.00
SE 0.051 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 300′



SPCL. "V" CL. B RIP-RAP DT.
STA. 177+50.00 TO STA. 179+23.37



OLD HWY. 32 NO. 2
PI 32+28.34
N 579,242.1099
E 2,790,854.7568
Δ 41° 19′ 49″ (RT)
D 18° 00′ 00″
R 318.31
L 229.61
T 120.06
SE 0.077 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH (SEE PROFILE)



SPCL. "V" SOD DT.
STA. 162+50.00 TO STA. 165+50.00
℄ S.R. 32 STA. 176+00.00 TO ℄ OLD HWY 32 NO. 2 STA. 32+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 165+00 TO STA. 178+00

SCALE: 1"= 50′

8/7/2012
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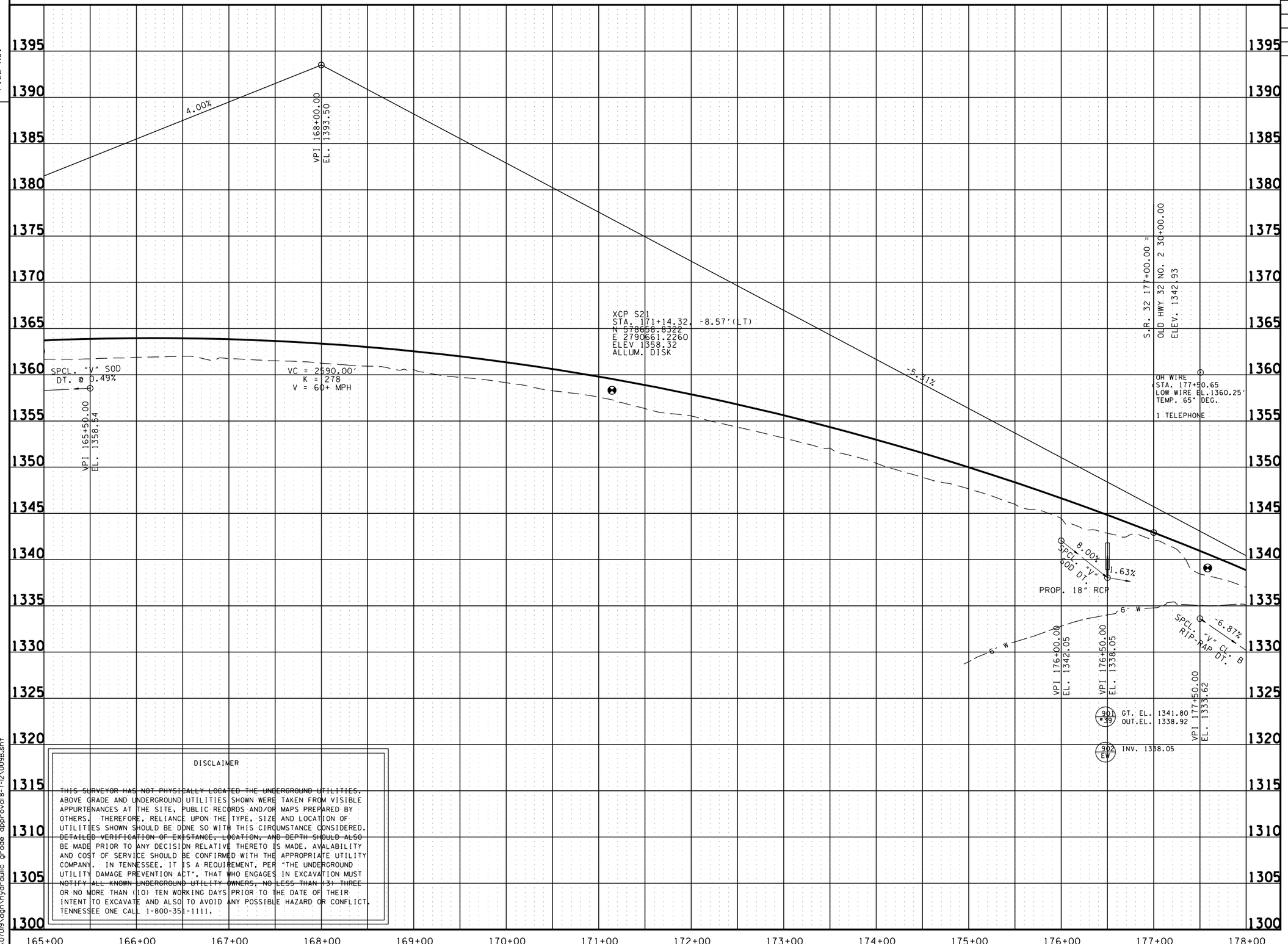
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	9B



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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 165+00 TO STA. 178+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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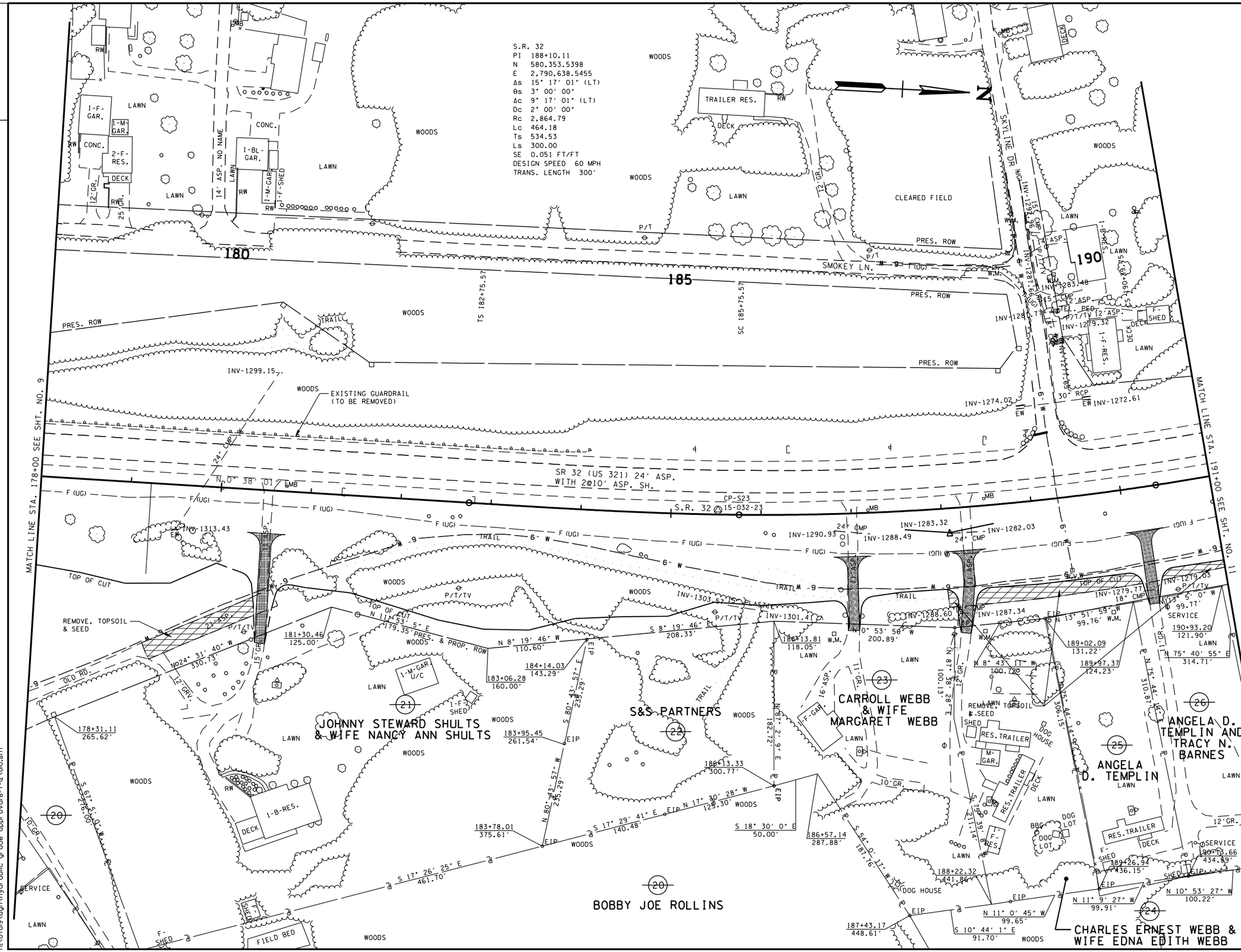
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	10



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 178+00 TO STA. 191+00

SCALE: 1"= 50'

8/7/2012
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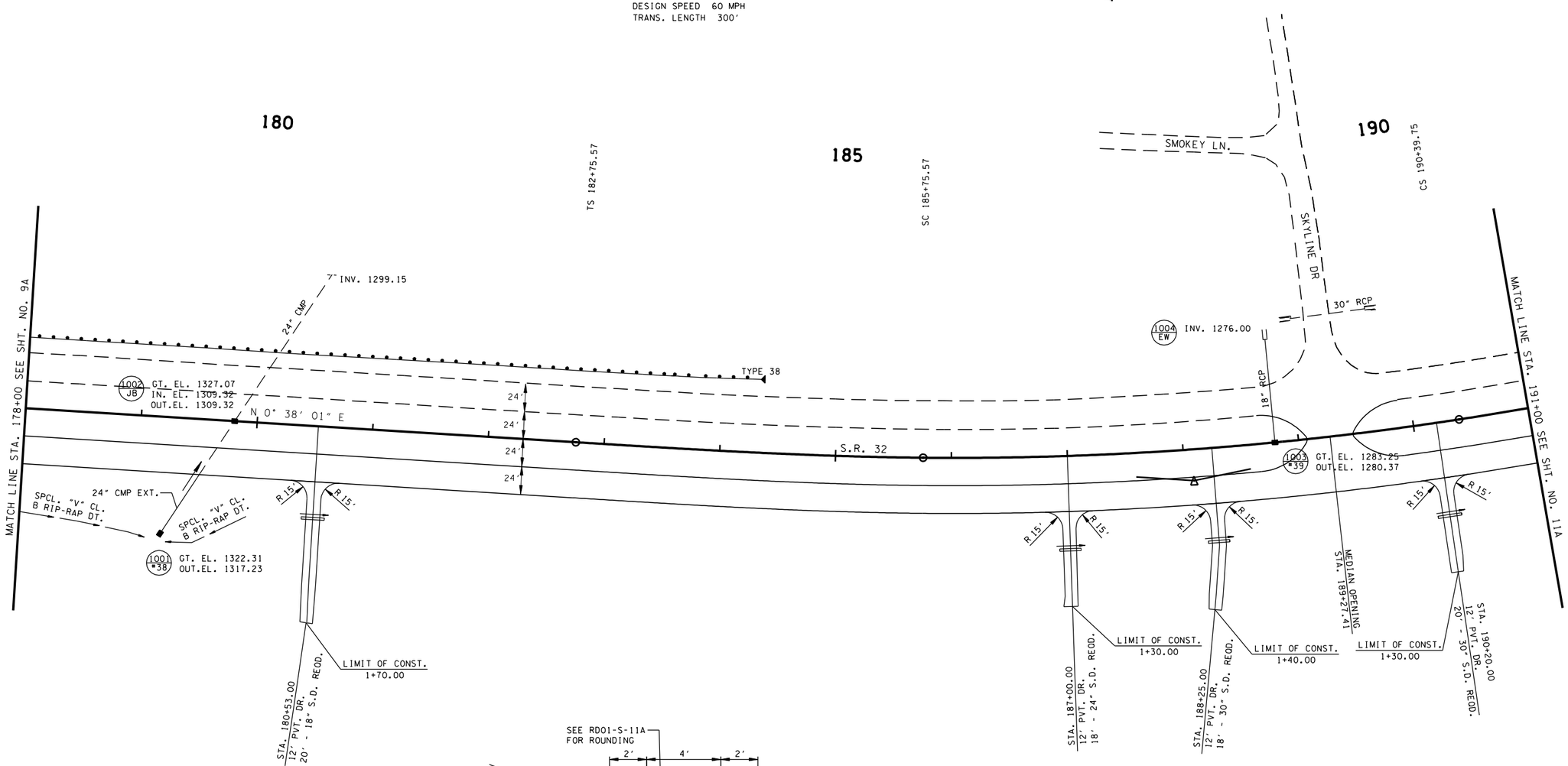
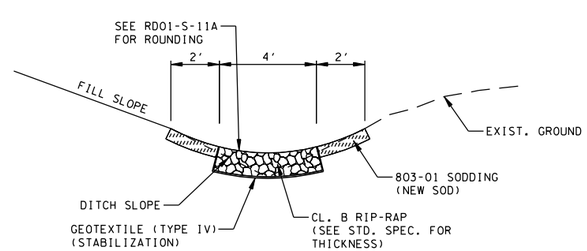
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	10A

S.R. 32
PI 188+10.11
N 580,353.5398
E 2,790,638.5455
Δs 15° 17′ 01″ (LT)
θs 3° 00′ 00″
Δc 9° 17′ 01″ (LT)
Dc 2° 00′ 00″
Rc 2,864.79
Lc 464.18
Ts 534.53
Ls 300.00
SE 0.051 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 300′





SPCL. "V" CL. B RIP-RAP DT.
STA. 177+50.00 TO STA. 179+23.37
STA. 179+23.37 TO STA. 180+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

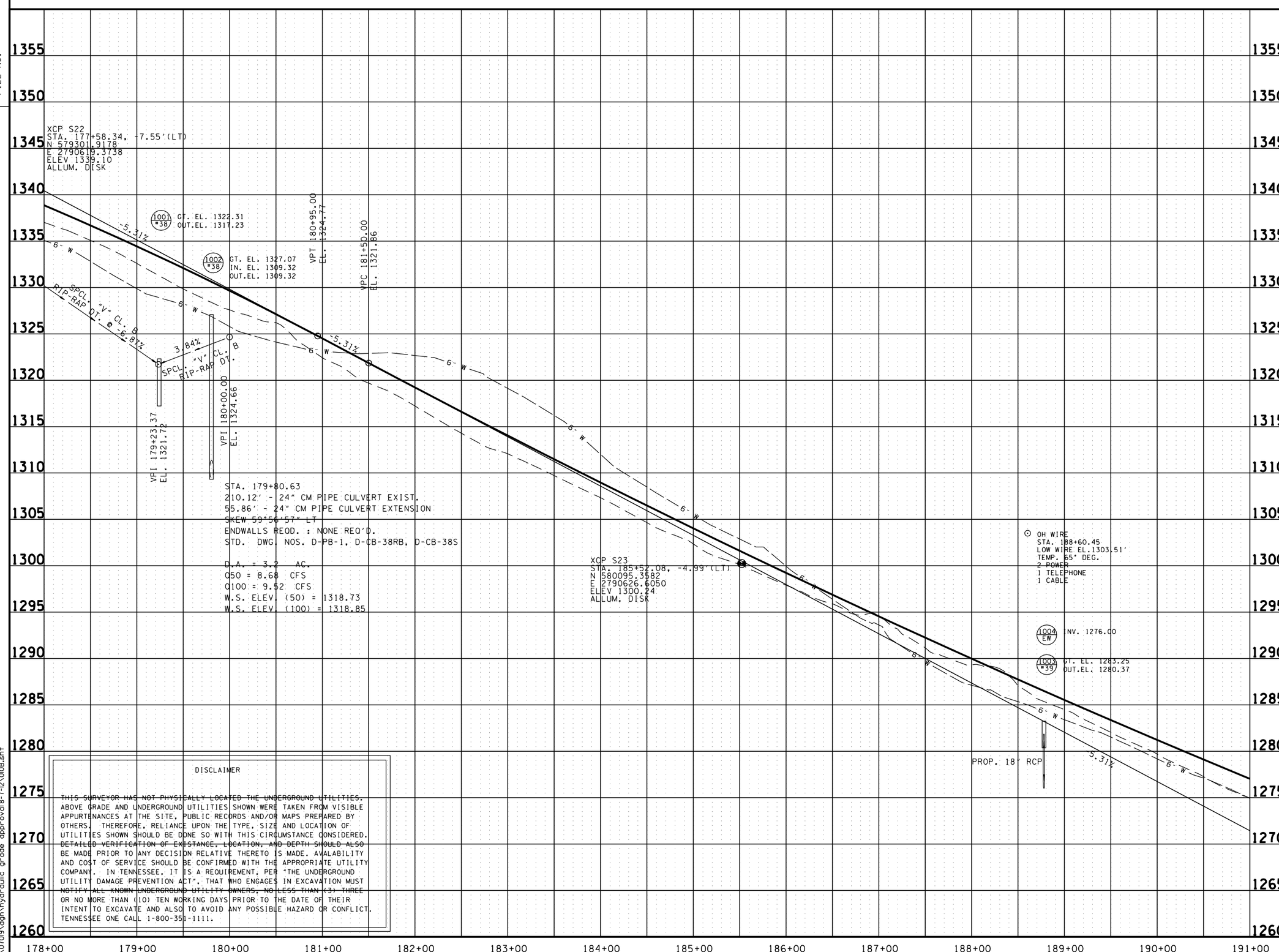
STA. 178+00 TO STA. 191+00

SCALE: 1"= 50′

8/7/2012
h:\07019\dgn\hydraulic grade approval 8-7-12\0101A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	10B



DISCLAIMER

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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

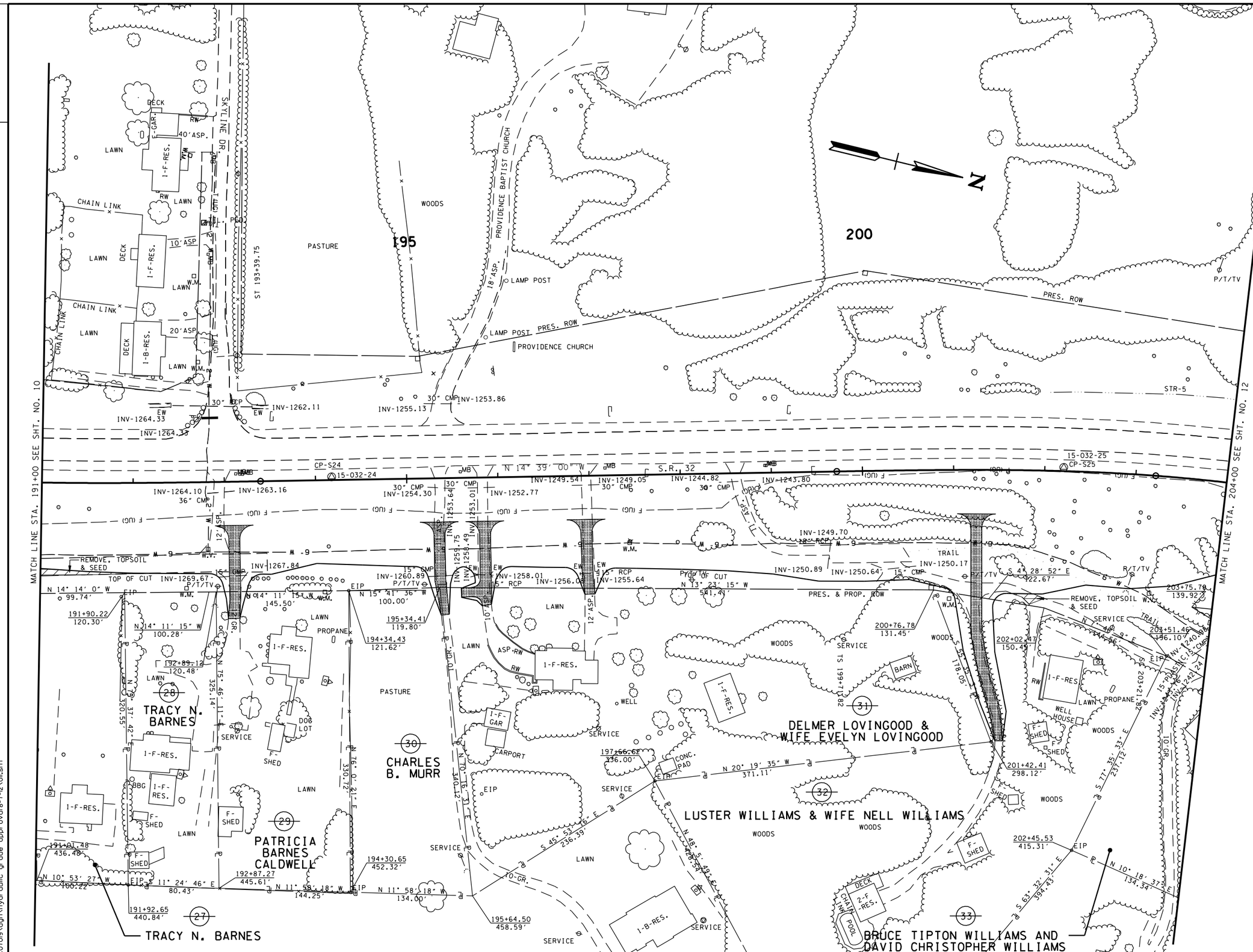
PROFILE

STA. 178+00 TO STA. 191+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/17/2012
h:\07019\dgn\hydraulic grade approval 8-7-12\0108.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	11



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

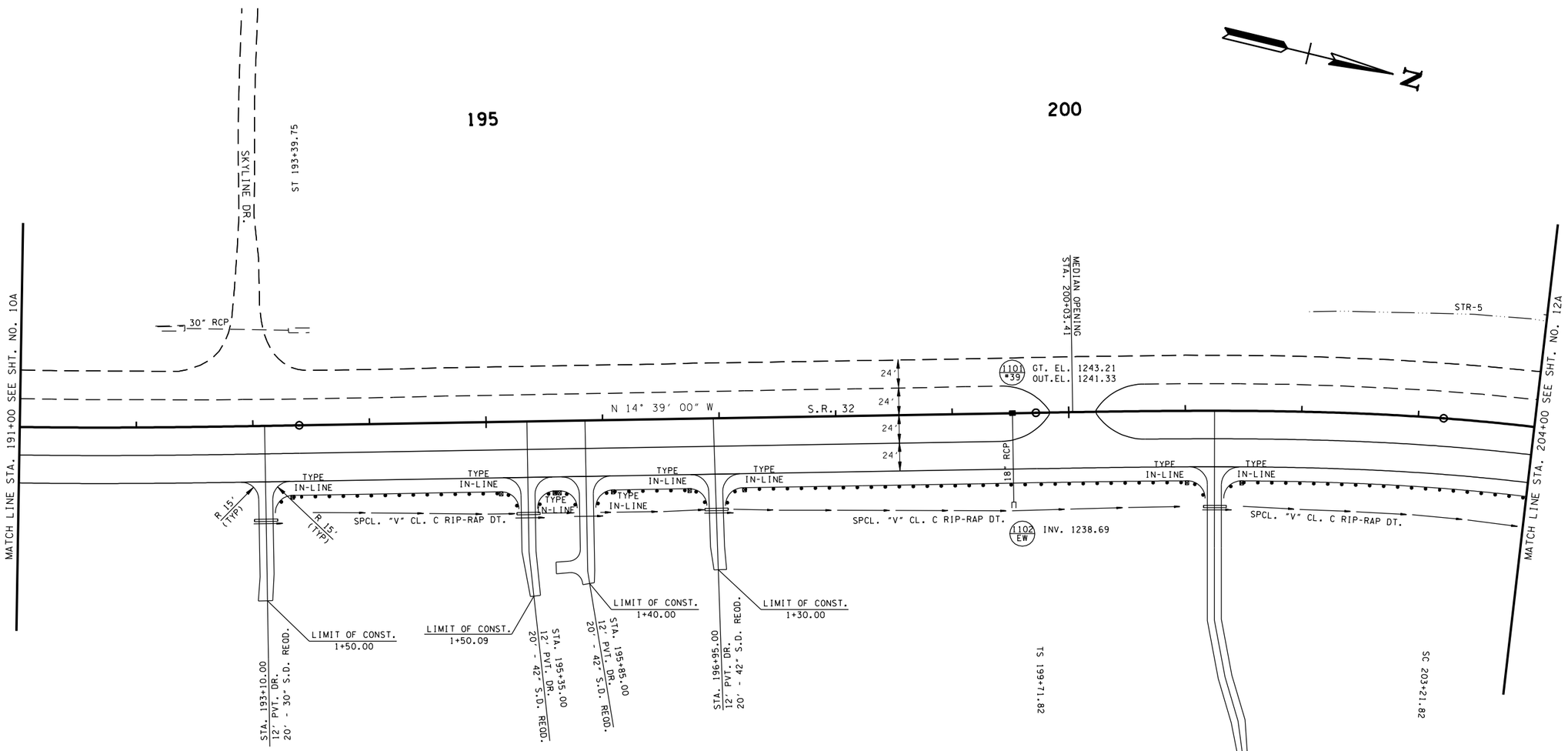
STA. 191+00 TO STA. 204+00

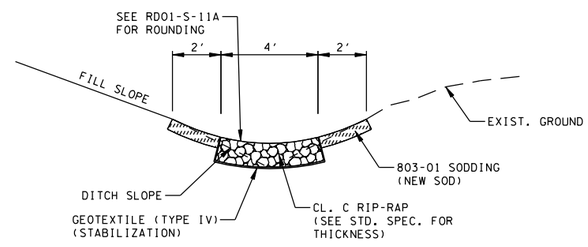
SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\01.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	11A





SPCL. "V" CL. C RIP-RAP DT.
STA. 193+50.00 TO STA. 205+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

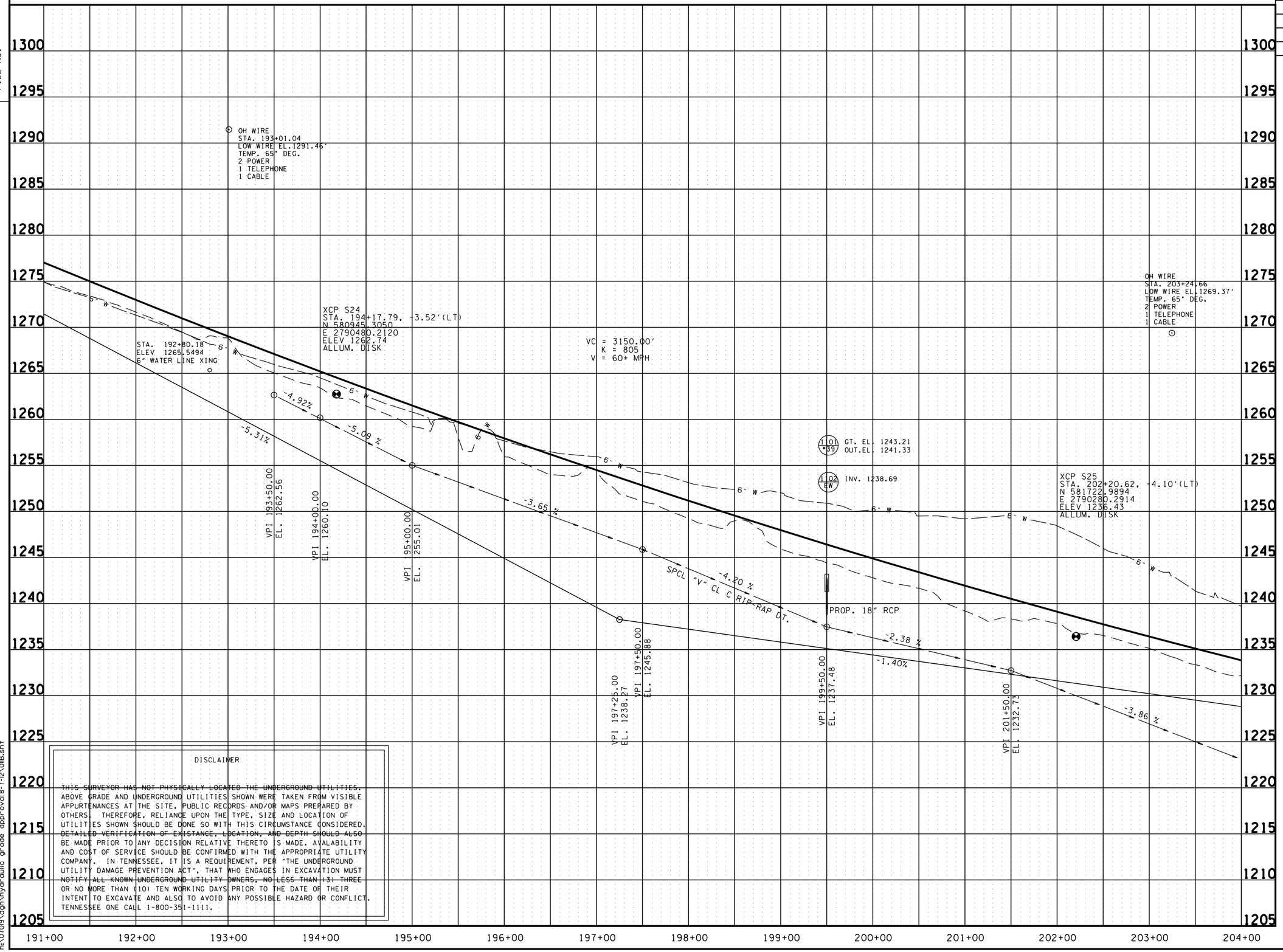
STA. 191+00 TO STA. 204+00

SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\011A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	11B



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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

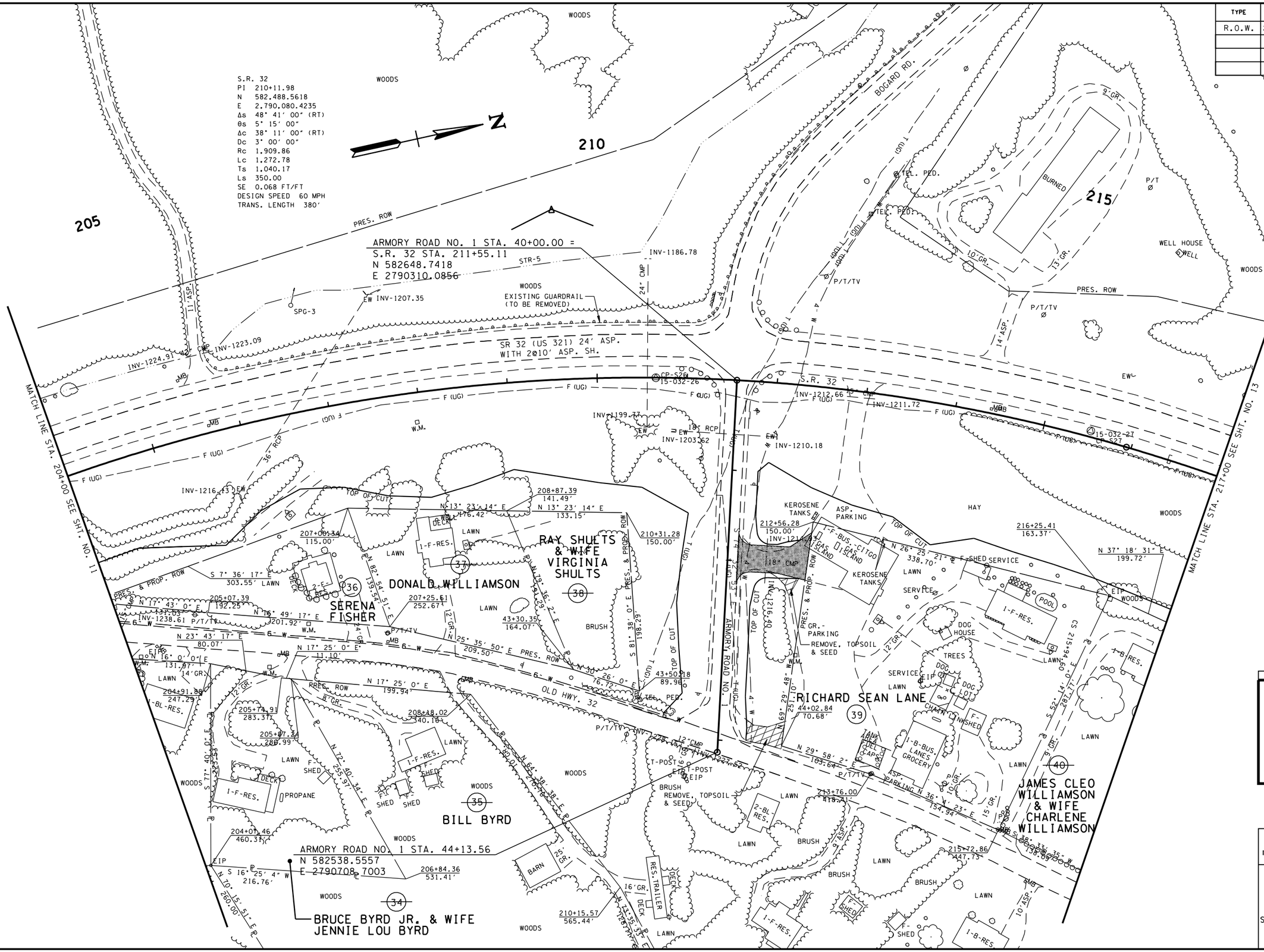
PROFILE

STA. 191+00 TO STA. 204+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
h:\0709\dgn\hydraulic grade approval8-7-12\01B.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	12



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

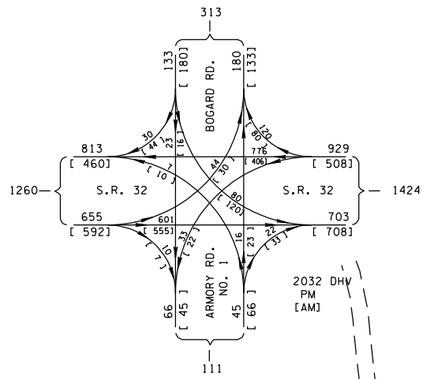
STA. 204+00 TO STA. 217+00

SCALE: 1"= 50'

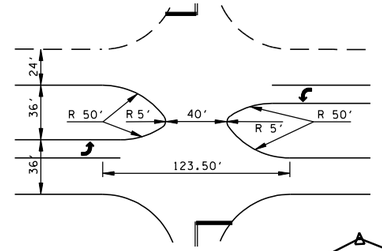
8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\012.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

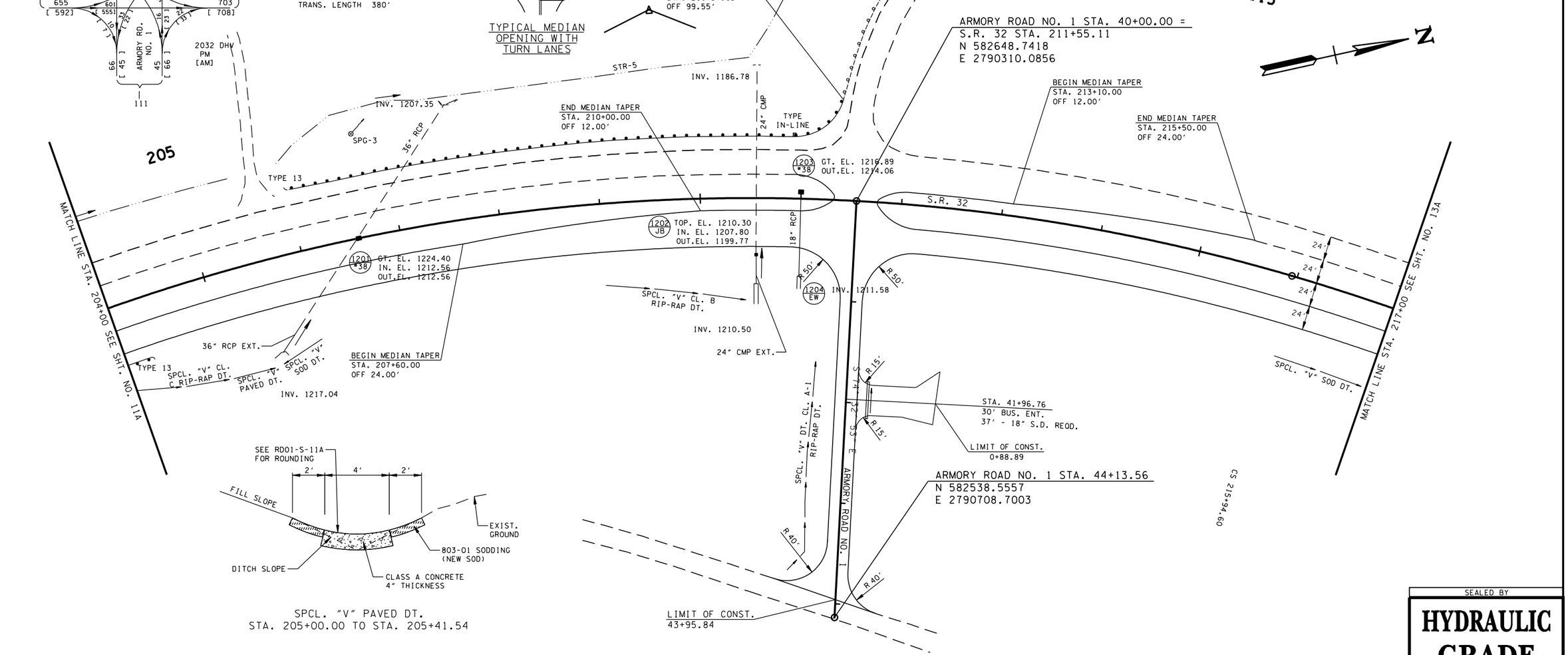
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	12A



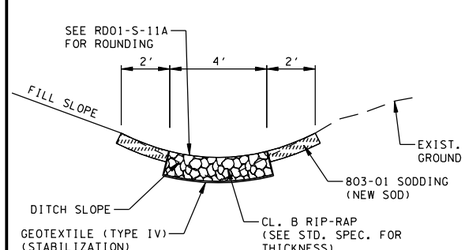
S.R. 32
PI 210+11.98
N 582,488.5618
E 2,790,080.4235
Δs 48° 41′ 00″ (RT)
θs 5° 15′ 00″
Δc 38° 11′ 00″ (RT)
Dc 3° 00′ 00″
Rc 1,909.86
Lc 1,272.78
Ts 1,040.17
Ls 350.00
SE 0.068 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′



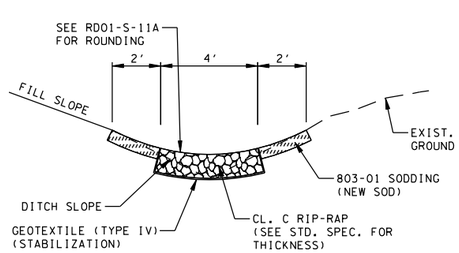
TYPICAL MEDIAN OPENING WITH TURN LANES



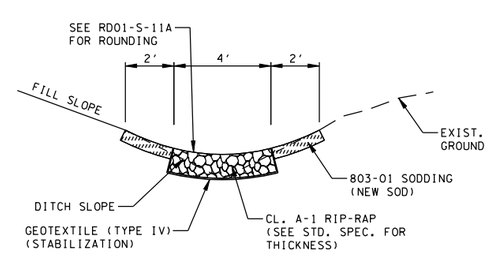
SPCL. "V" PAVED DT.
STA. 205+00.00 TO STA. 205+41.54



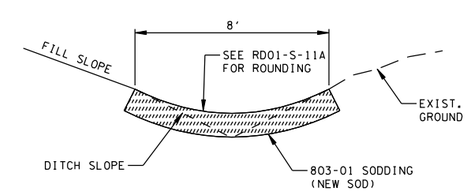
SPCL. "V" CL. B RIP-RAP DT.
STA. 209+00.00 TO STA. 210+55.75



SPCL. "V" CL. C RIP-RAP DT.
STA. 193+50.00 TO STA. 205+00.00



SPCL. "V" CL. A-1 RIP-RAP DT.
STA. 41+03.16 TO STA. 43+85.00
ARMORY ROAD NO. 1



SPCL. "V" SOD DT.
STA. 205+41.54 TO STA. 206+00.00
STA. 216+00.00 TO STA. 219+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 204+00 TO STA. 217+00

SCALE: 1"= 50′

8/7/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	12B

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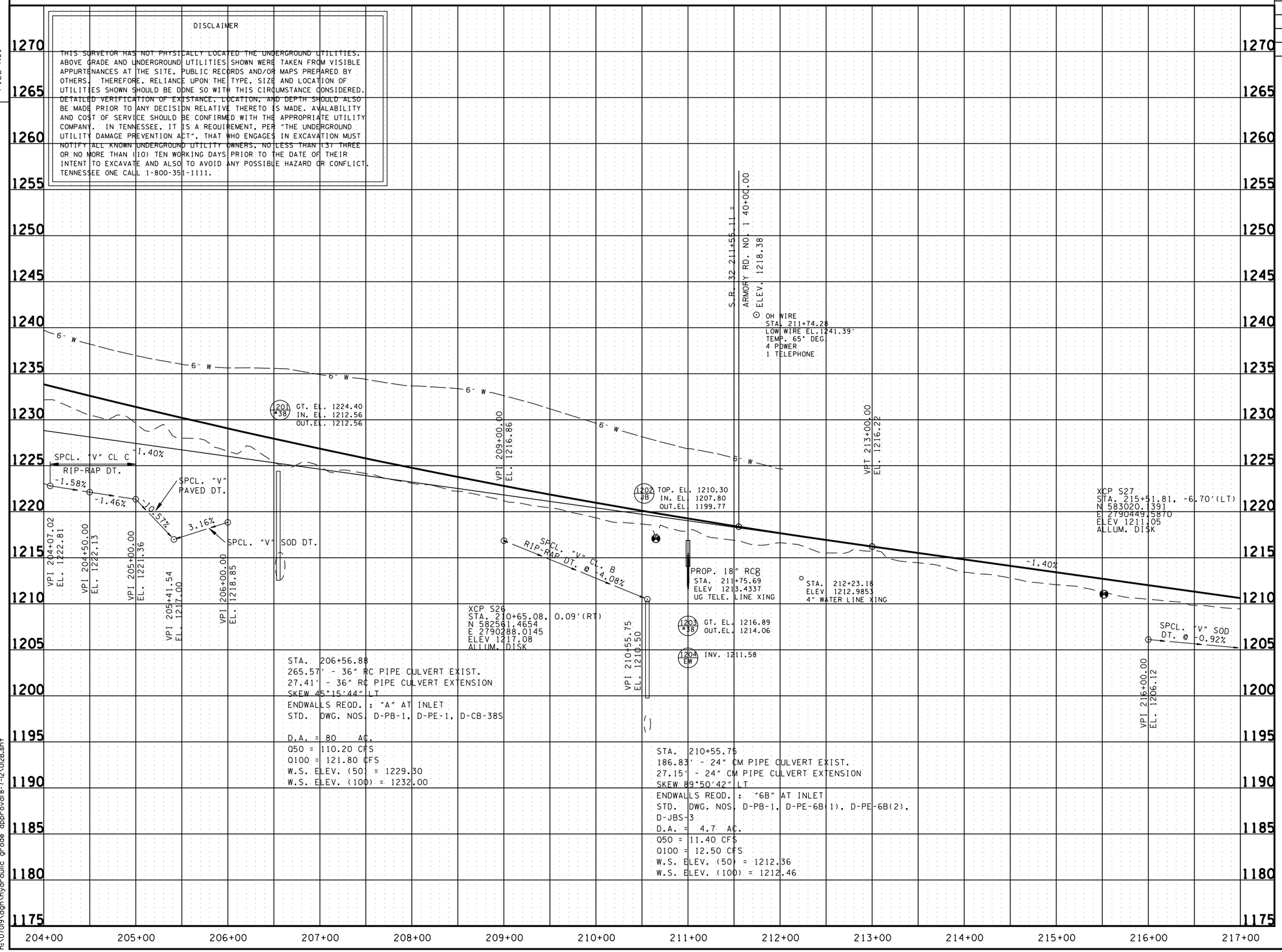


SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

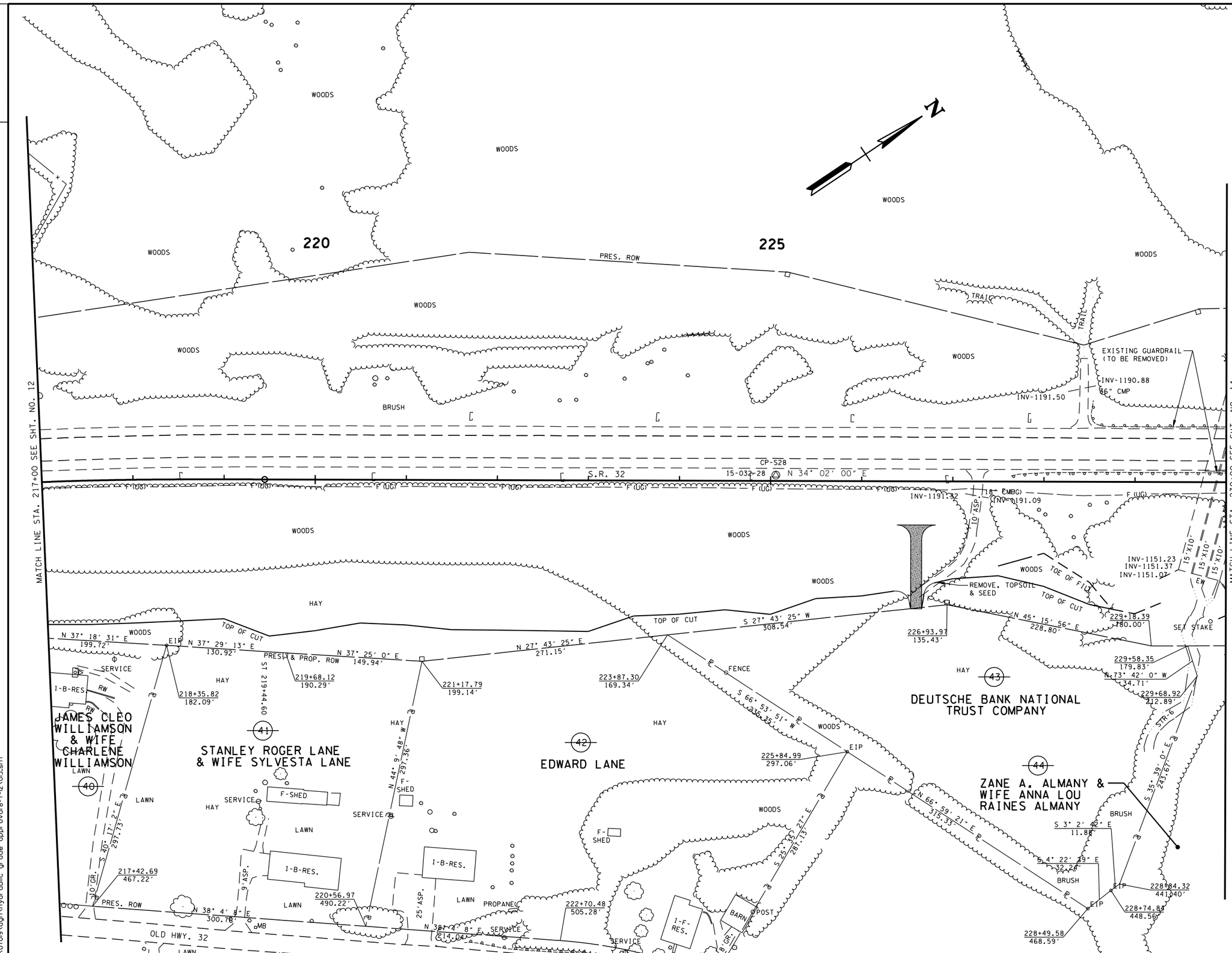
PROFILE

STA. 204+00 TO STA. 217+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\012B.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	13



SEALED BY

HYDRAULIC GRADE APPROVAL

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 217+00 TO STA. 230+00

SCALE: 1"= 50'

8/17/2012
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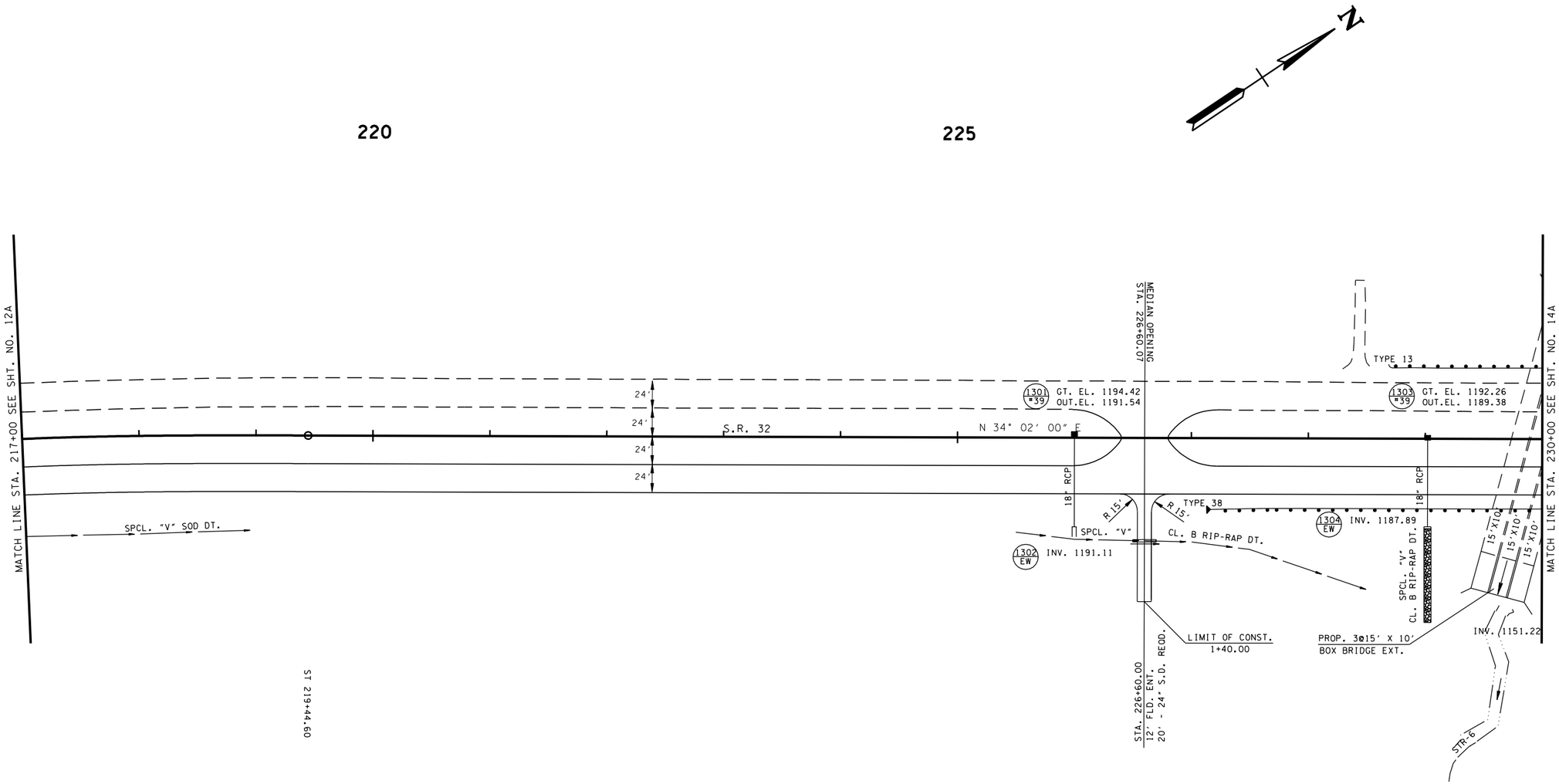
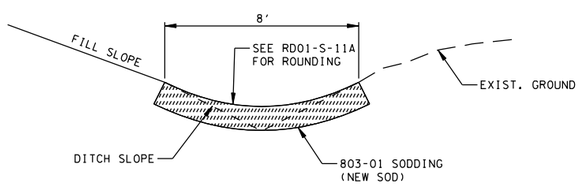
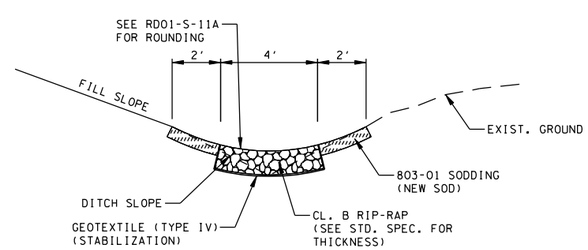
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	13A





SPCL. "V" SOD DT.
STA. 216+00.00 TO STA. 219+00.00



SPCL. "V" CL. B RIP-RAP DT.
STA. 225+50.00 TO STA. 228+50.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

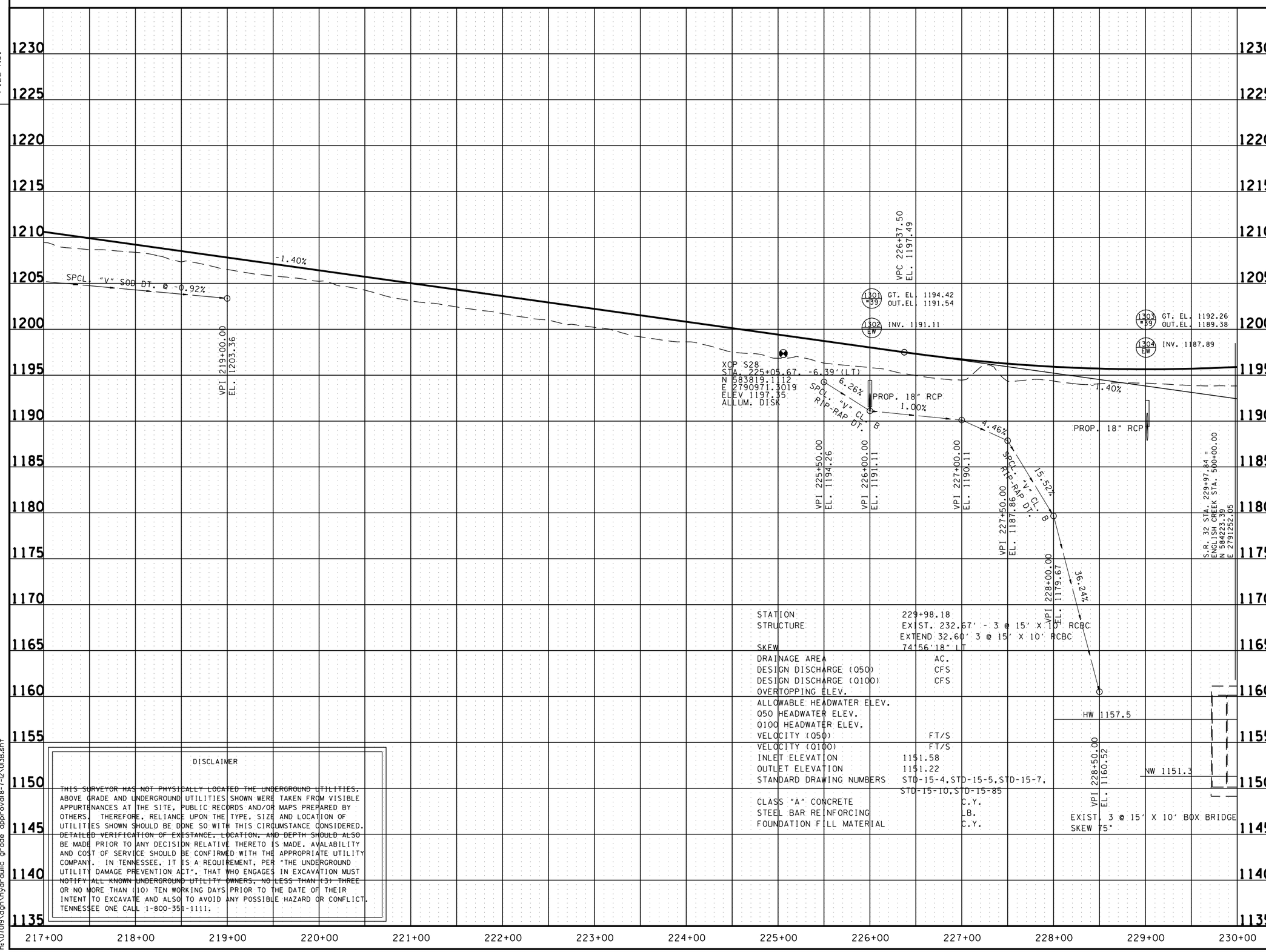
STA. 217+00 TO STA. 230+00

SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\013A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	13B



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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

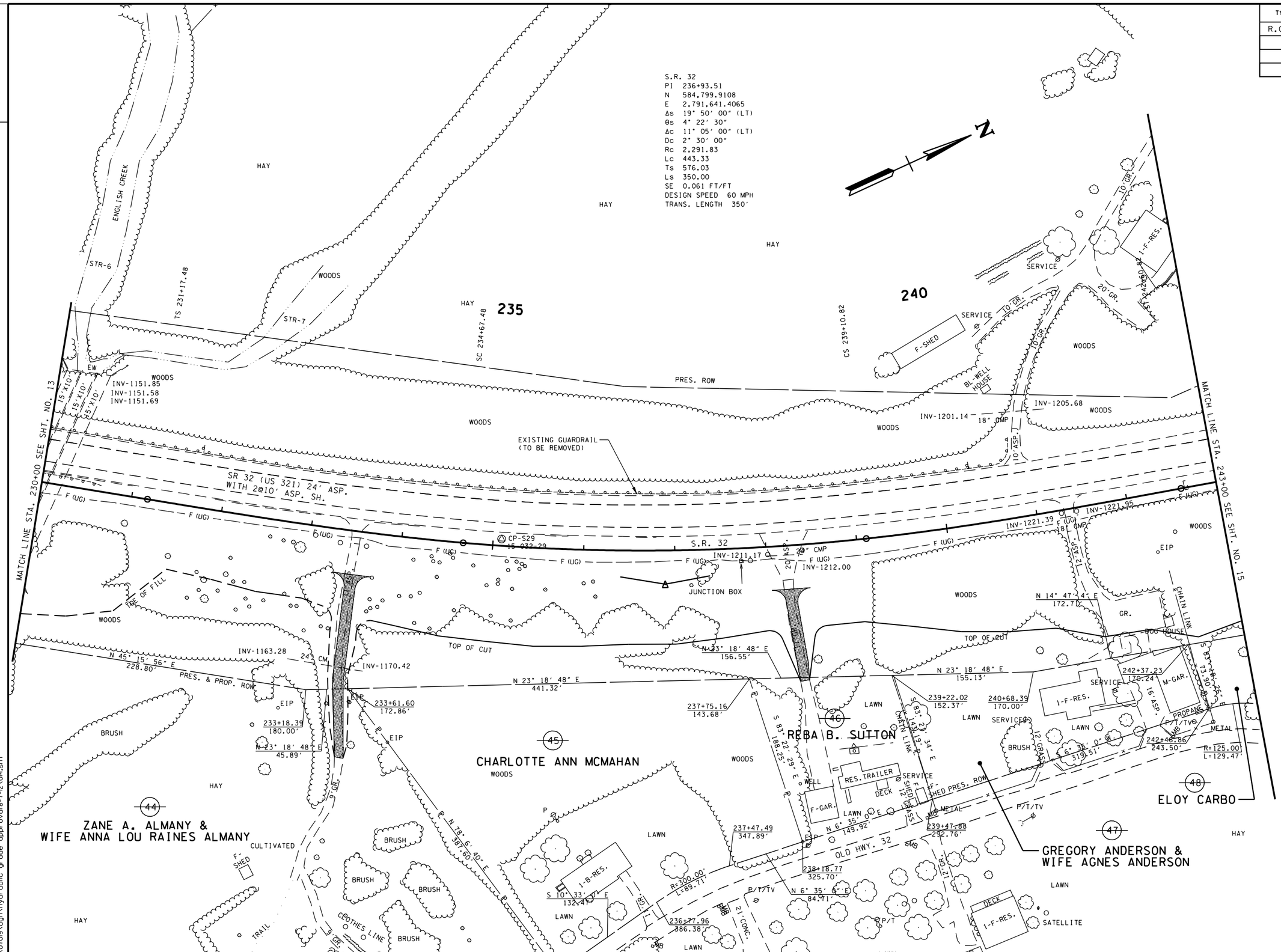
STA. 217+00 TO STA. 230+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
h:\07019\dgn\hydraulic grade approval 8-7-12\013B.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	14

S.R. 32
PI 236+93.51
N 584,799.9108
E 2,791,641.4065
Δs 19° 50′ 00″ (LT)
θs 4° 22′ 30″
Δc 11° 05′ 00″ (LT)
Dc 2° 30′ 00″
Rc 2,291.83
Lc 443.33
Ts 576.03
Ls 350.00
SE 0.061 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 350′



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 230+00 TO STA. 243+00

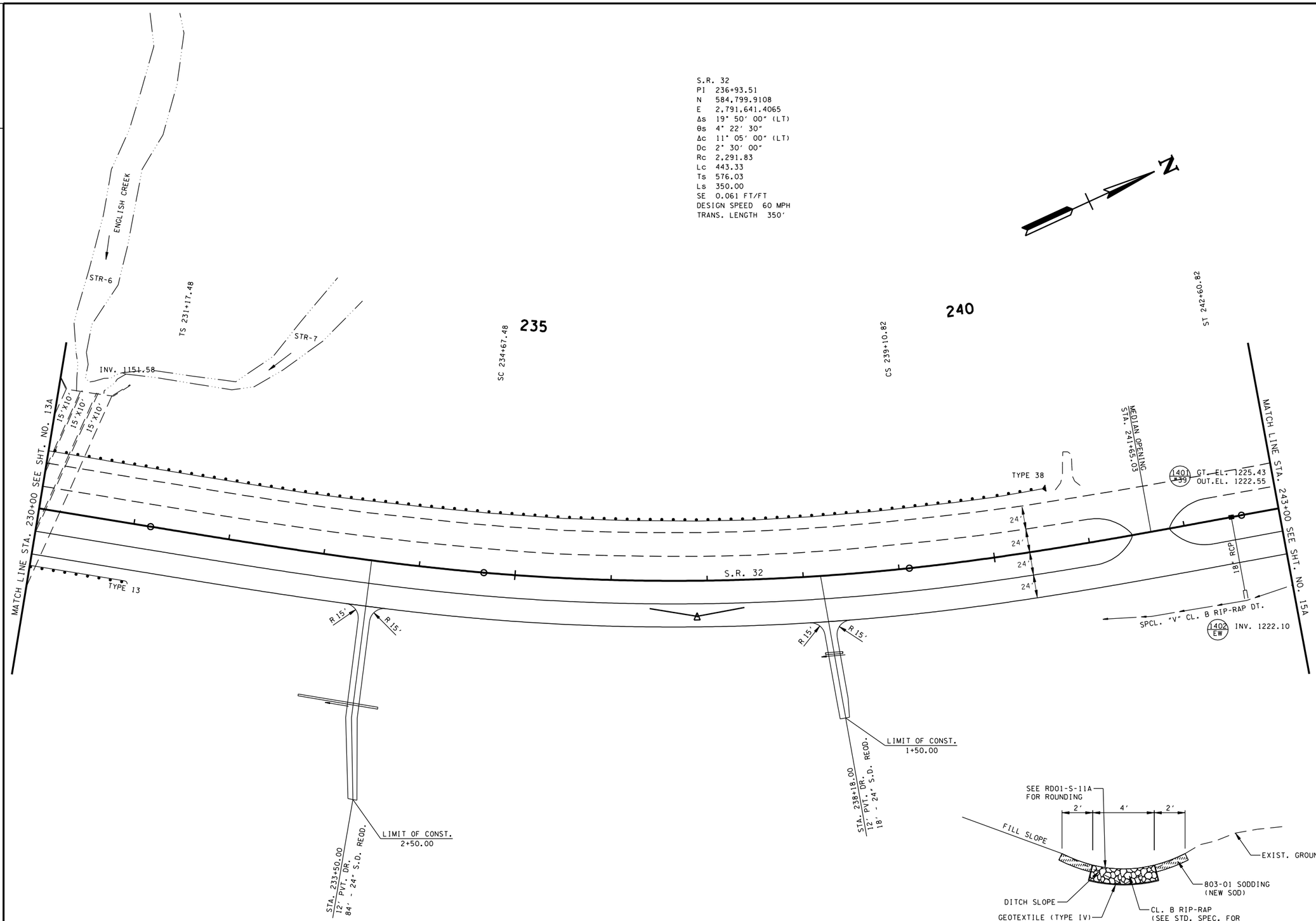
SCALE: 1″= 50′

8/17/2012
h:\07019\dgn\hydraulic grade approval8-7-12\014.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	14A

S.R. 32
PI 236+93.51
N 584,799.9108
E 2,791,641.4065
Δs 19° 50′ 00″ (LT)
θs 4° 22′ 30″
Δc 11° 05′ 00″ (LT)
Dc 2° 30′ 00″
Rc 2,291.83
Lc 443.33
Ts 576.03
Ls 350.00
SE 0.061 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 350′



SPCL. "V" CL. B RIP-RAP DT.
STA. 241+00.00 TO STA. 243+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

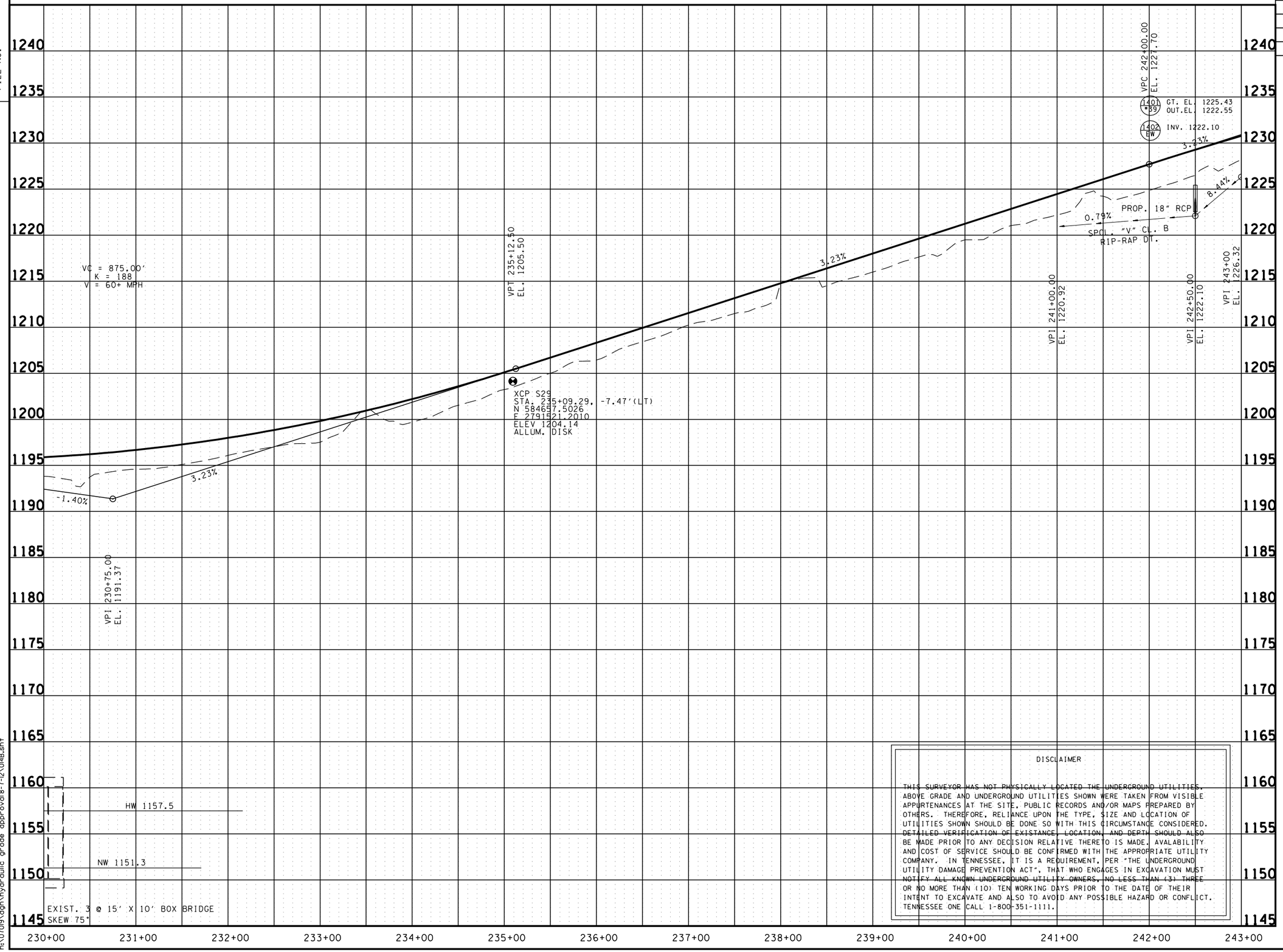
STA. 230+00 TO STA. 243+00

SCALE: 1"= 50′

8/17/2012
h:\07019\dgn\hydraulic grade approval8-7-12\014A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	14B



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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

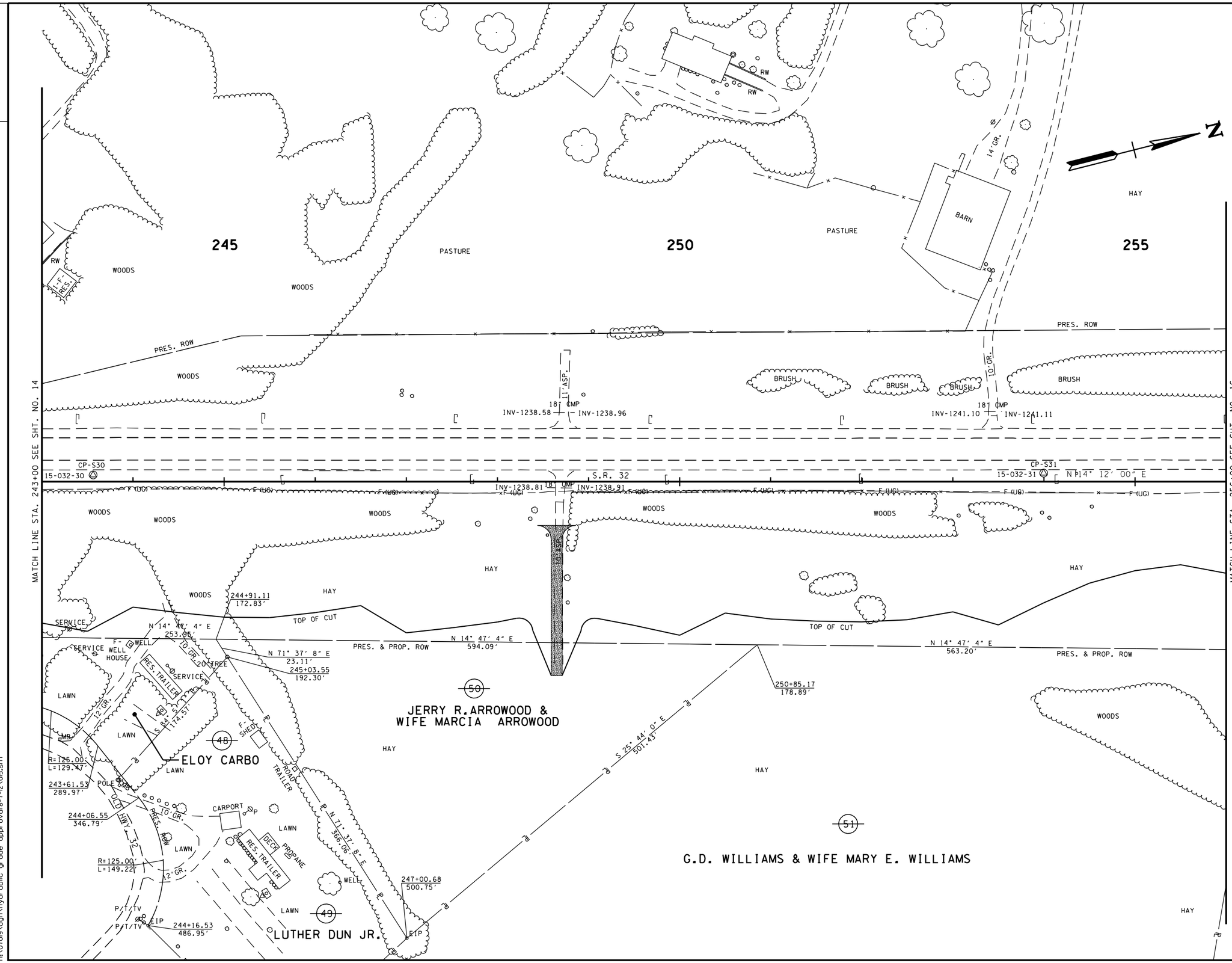
PROFILE

STA. 230+00 TO STA. 243+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\014B.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	15



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

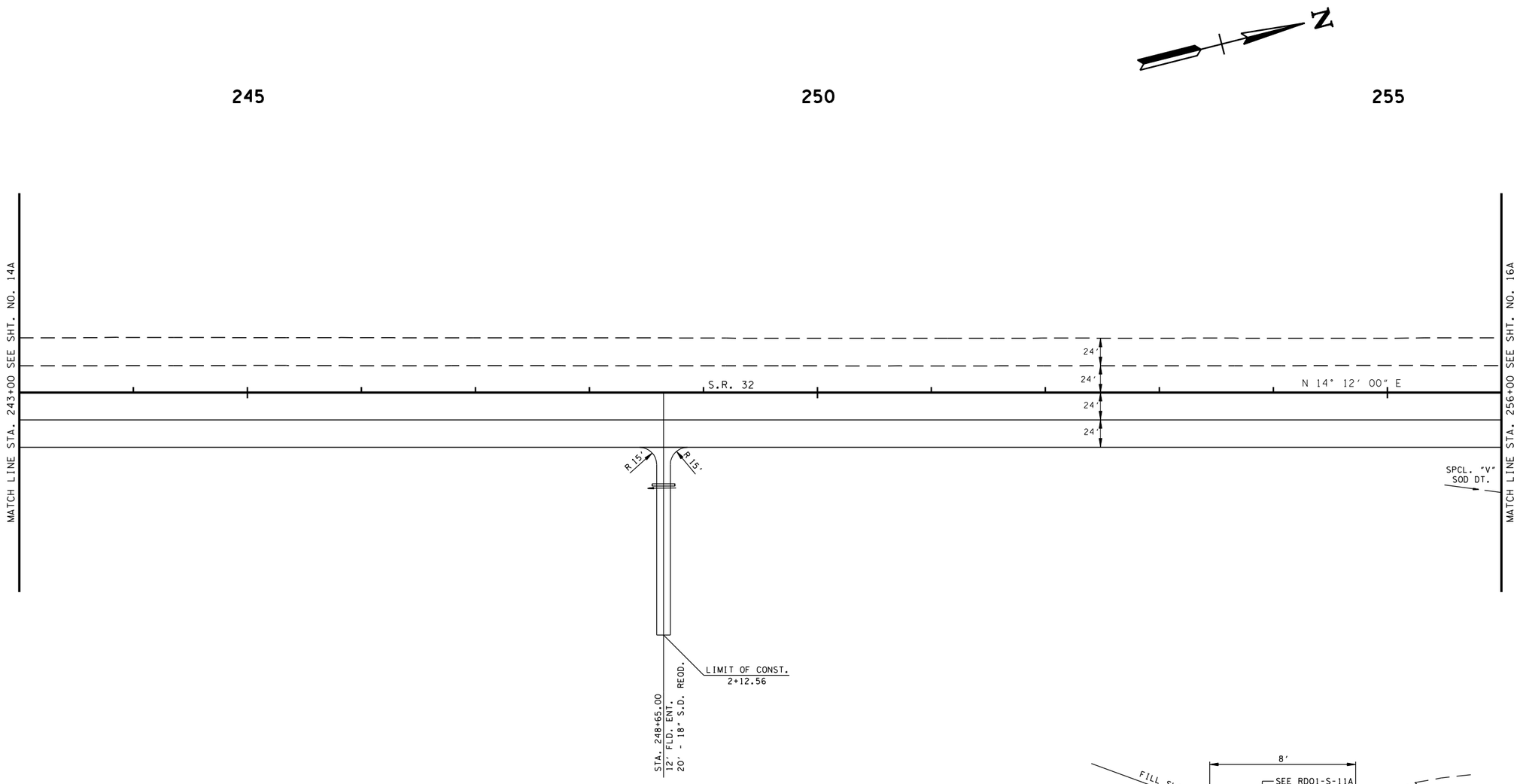
STA. 243+00 TO STA. 256+00

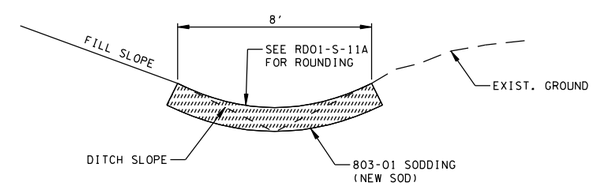
SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\015.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	15A





SPCL. "V" SOD DT.
STA. 255+50.00 TO STA. 259+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 243+00 TO STA. 256+00

SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\015A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	15B

DISCLAIMER

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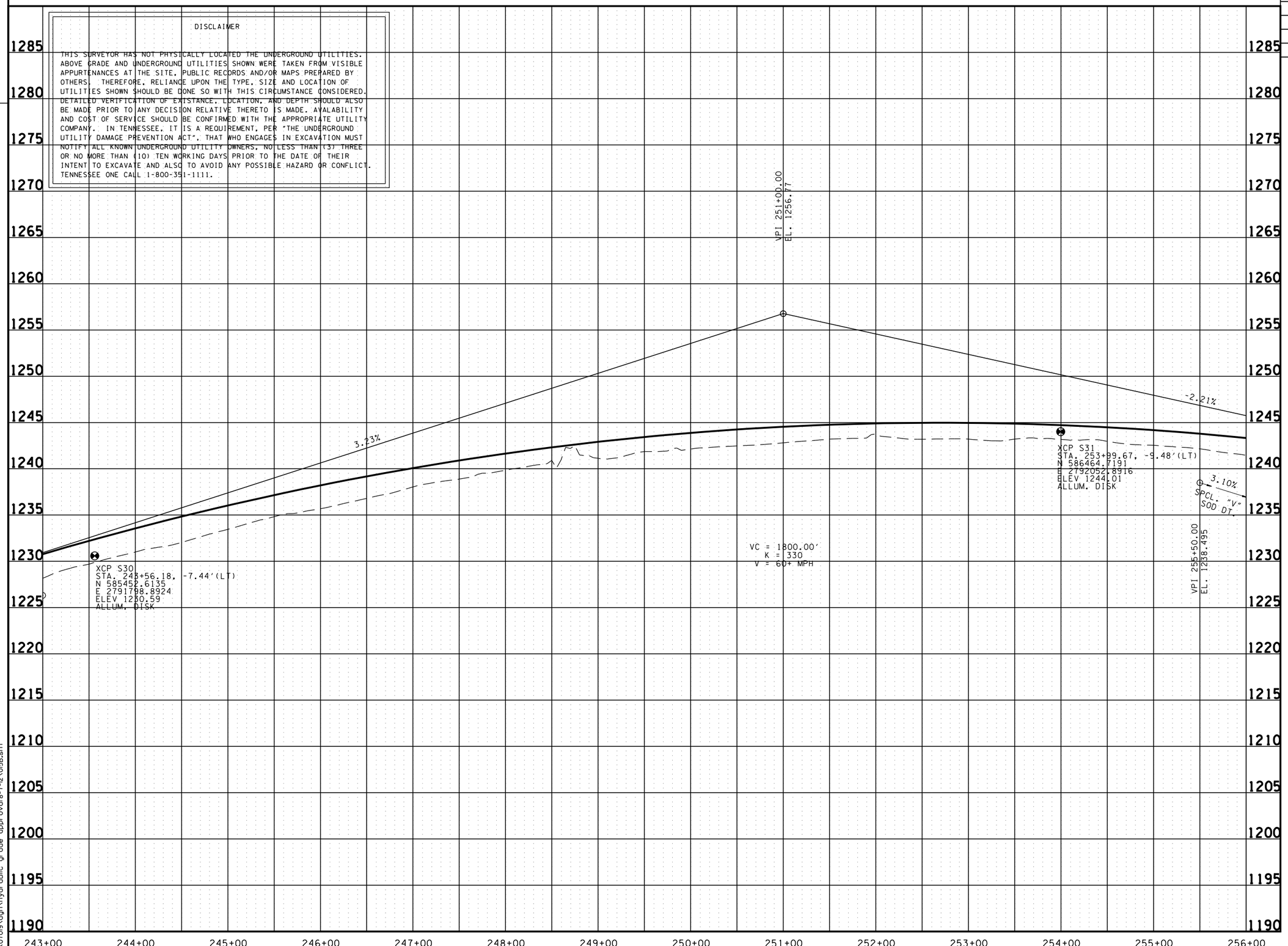

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 243+00 TO STA. 256+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/17/2012
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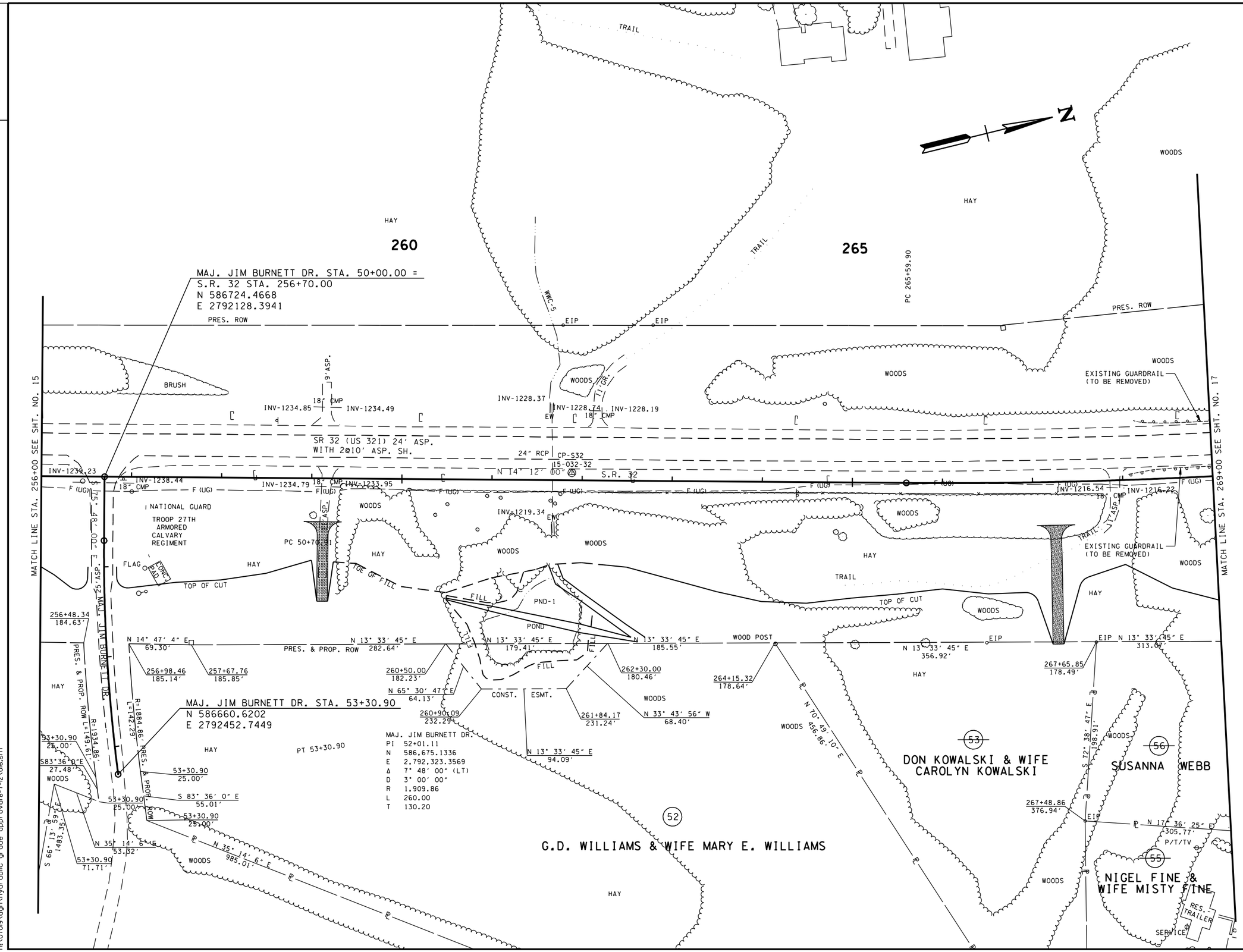
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	16



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

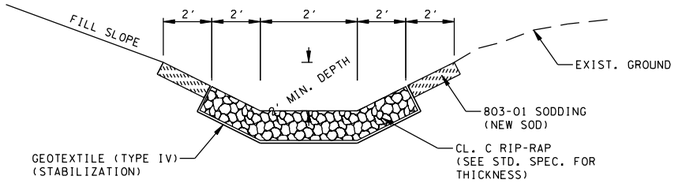
STA. 256+00 TO STA. 269+00

SCALE: 1"= 50'

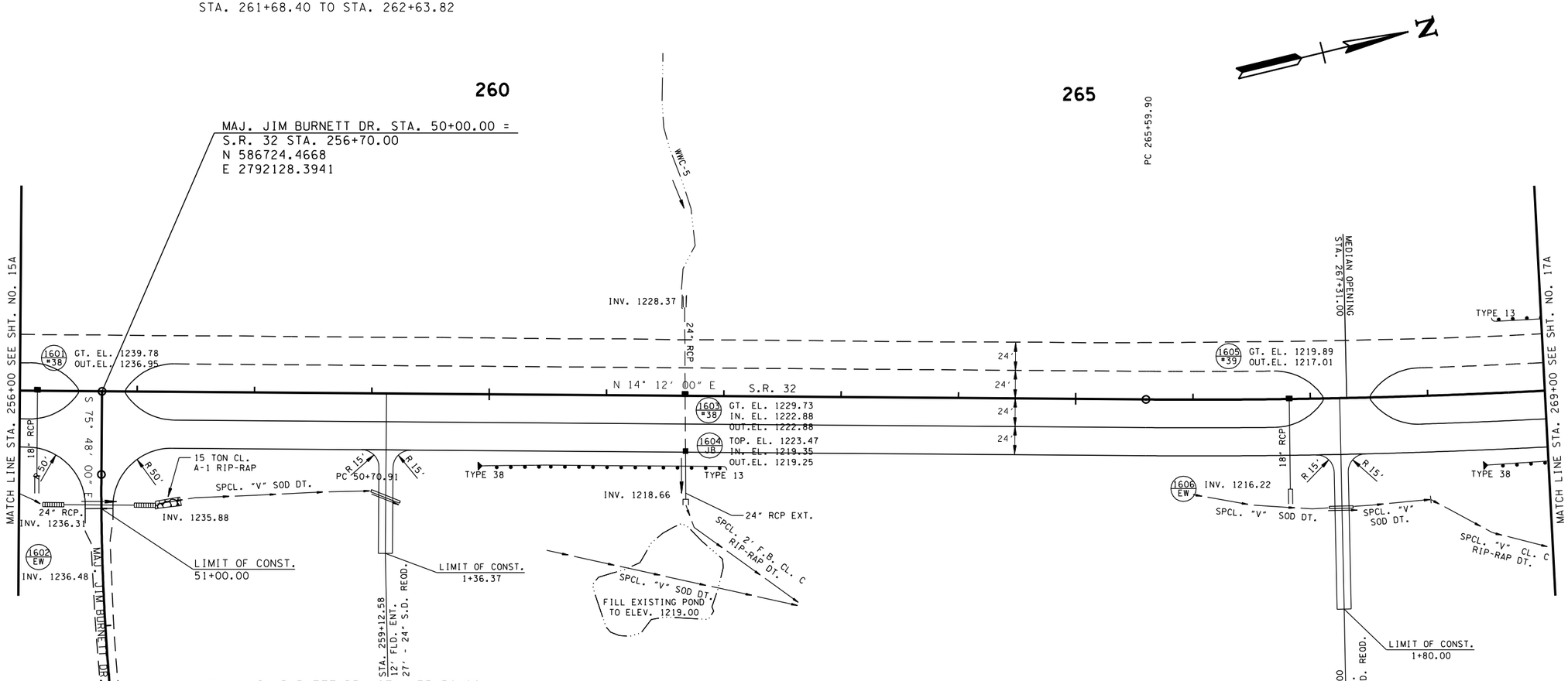
8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\016.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	16A



SPCL. 2' F.B. CL. C RIP-RAP DT.
STA. 261+68.40 TO STA. 262+63.82

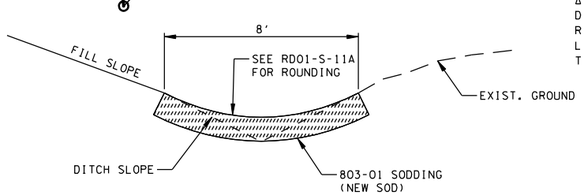


MAJ. JIM BURNETT DR. STA. 53+30.90
N 586660.6202
E 2792452.7449

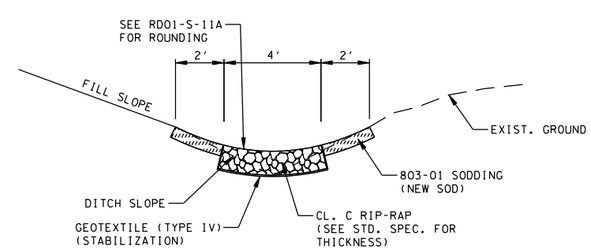
PT 53+30.90

MAJ. JIM BURNETT DR.

PI	52+01.11
N	586,675.1336
E	2,792,323.3569
Δ	7° 48' 00" (LT)
D	3° 00' 00"
R	1,909.86
L	260.00
T	130.20



SPCL. "V" SOD DT.
STA. 255+50.00 TO STA. 259+00.00
STA. 260+50.00 TO STA. 262+63.82
STA. 266+00.00 TO STA. 268+00.00



SPCL. "V" CL. C RIP-RAP DT.
STA. 268+00.00 TO STA. 269+75.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

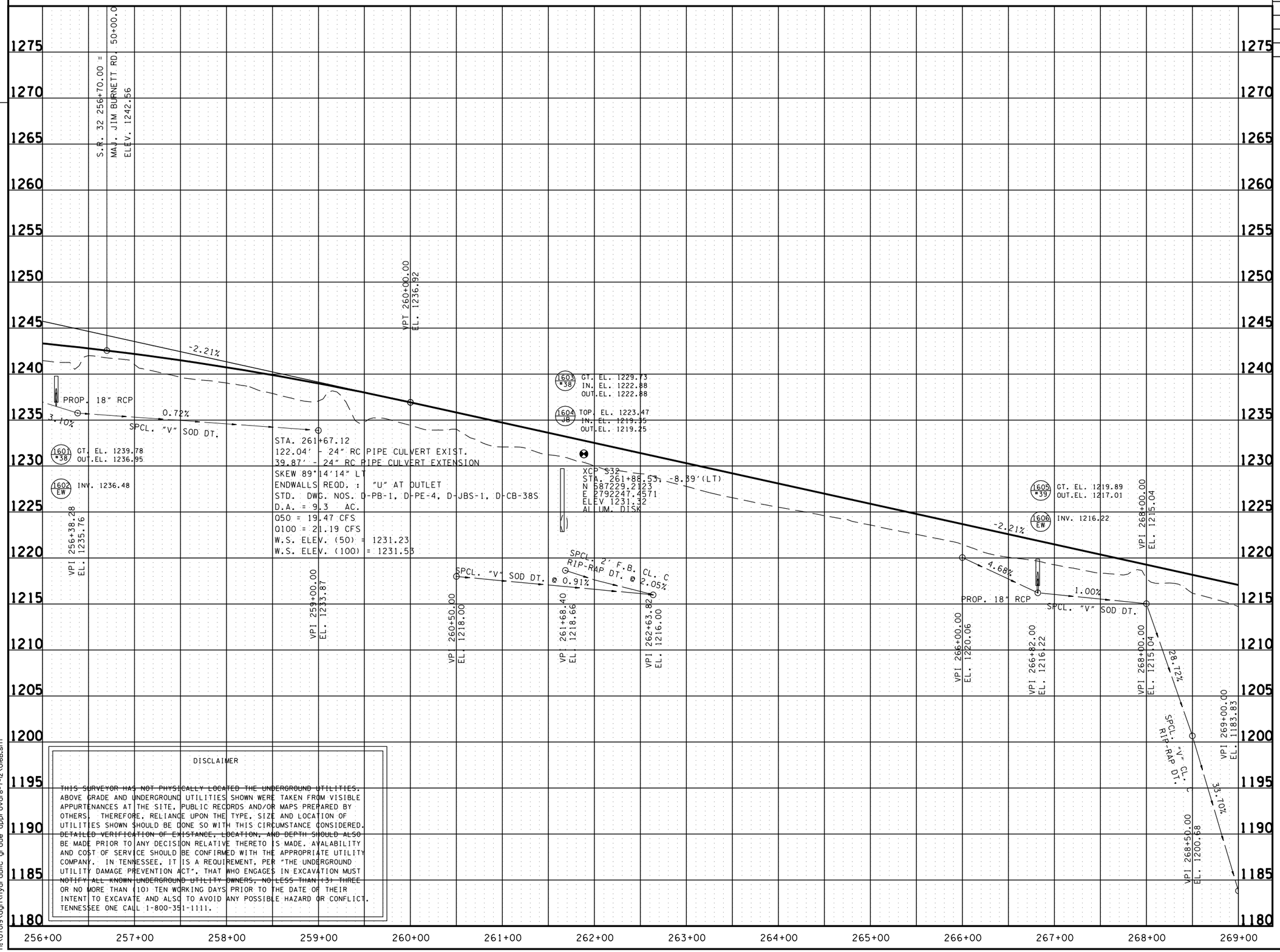
STA. 256+00 TO STA. 269+00

SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\016A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	16B



DISCLAIMER

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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

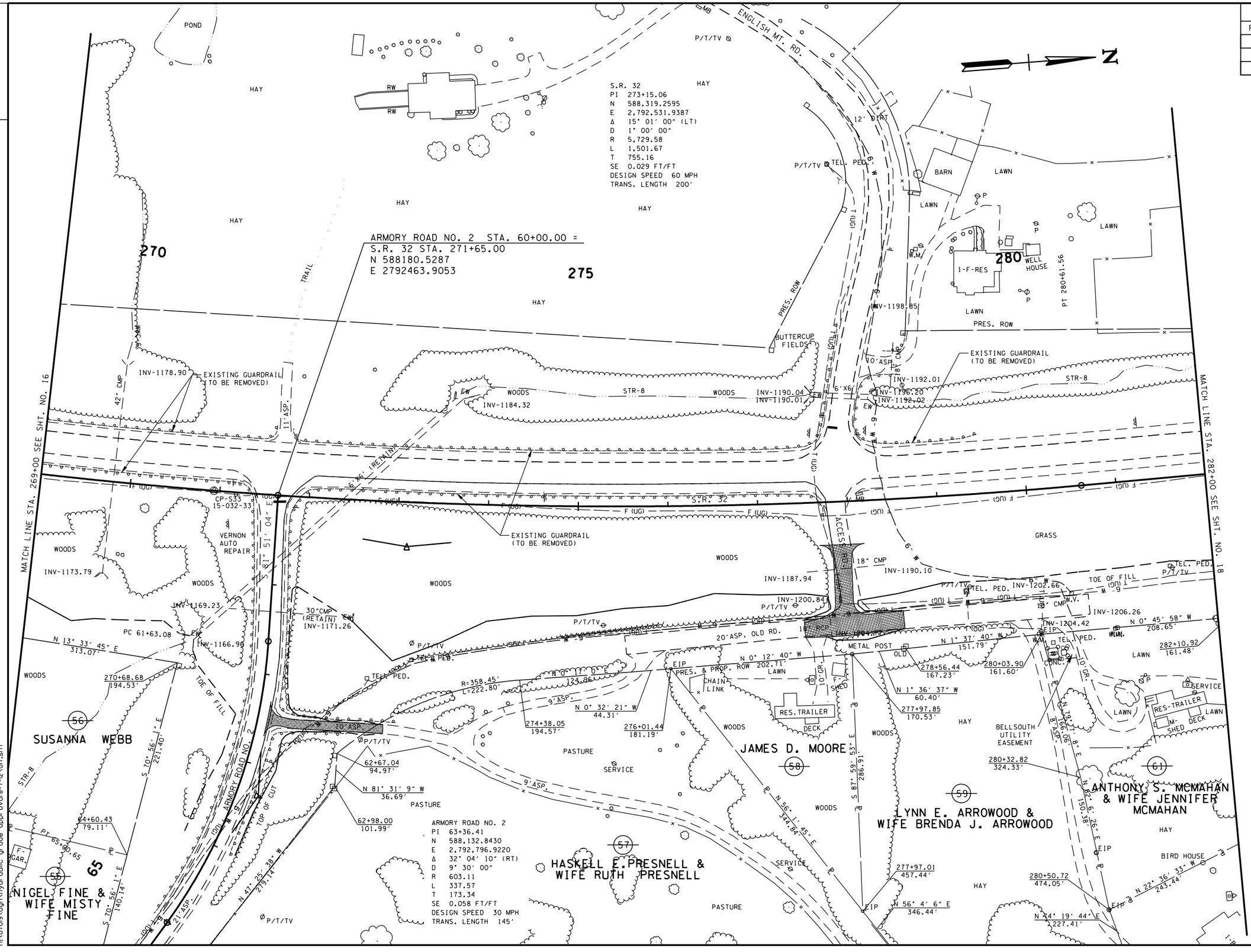
PROFILE

STA. 256+00 TO STA. 269+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\016B.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

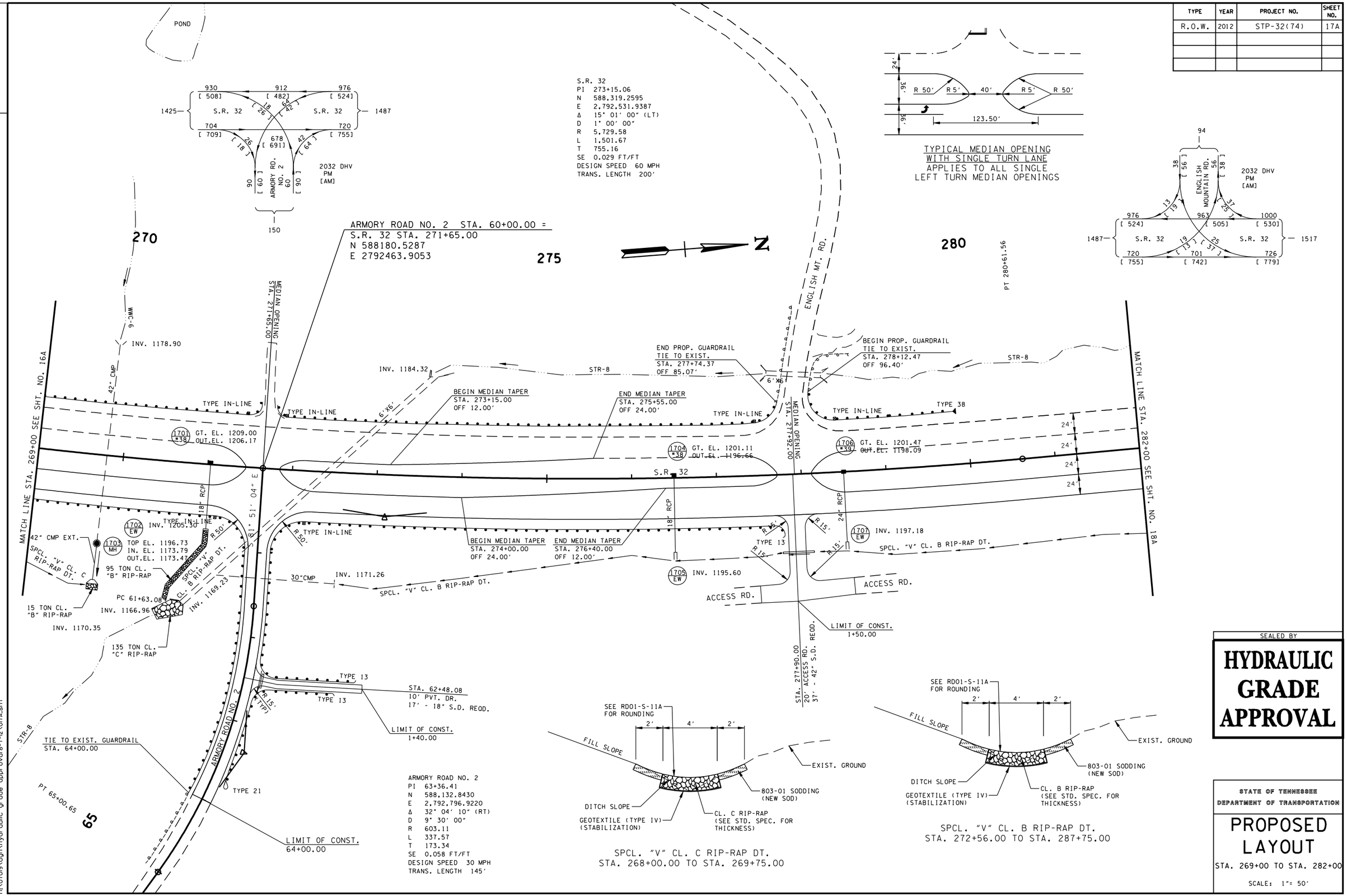
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	17



8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\017.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	17A



SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

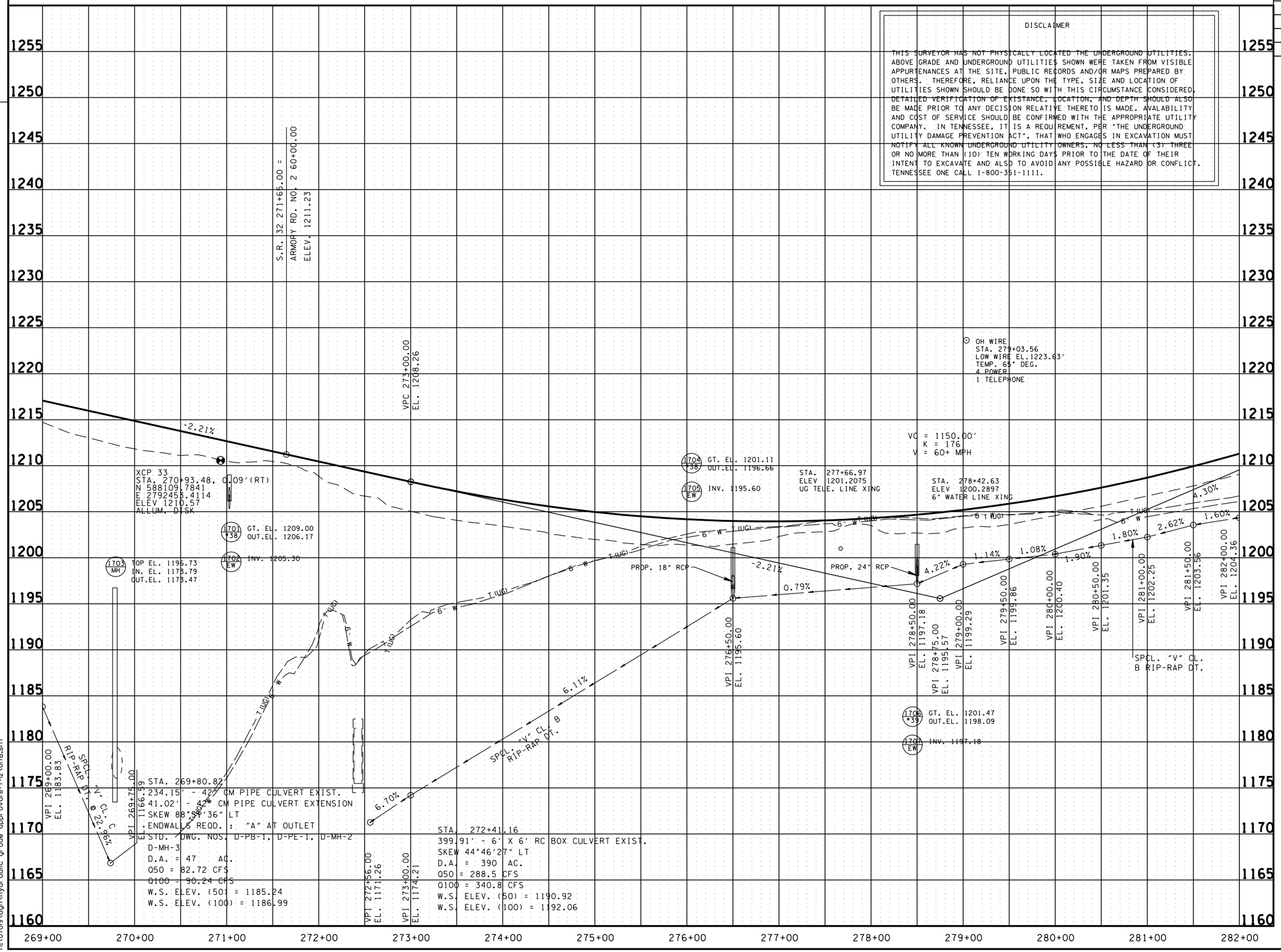
STA. 269+00 TO STA. 282+00

SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\017A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	17B



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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 269+00 TO STA. 282+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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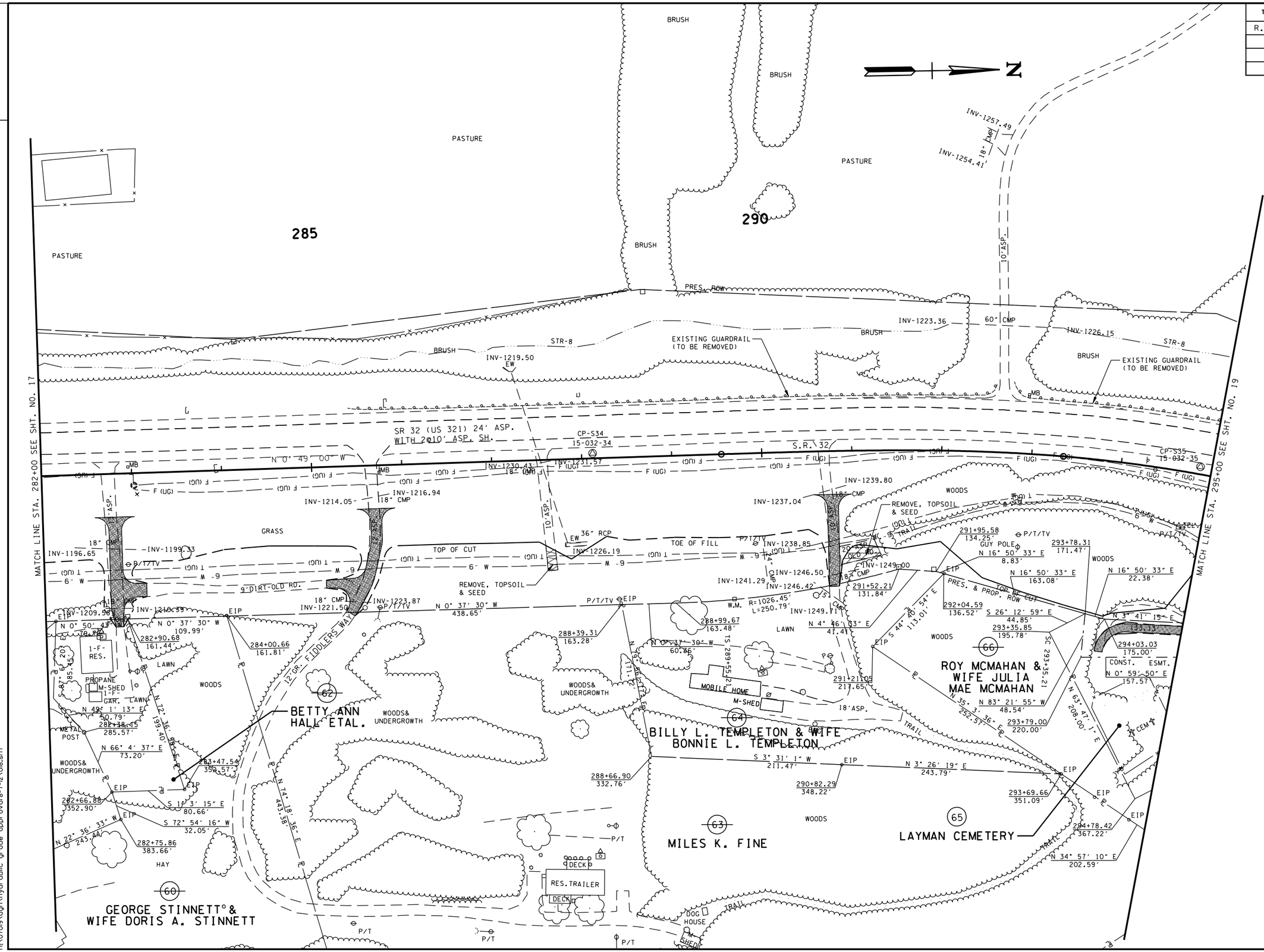
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	18



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

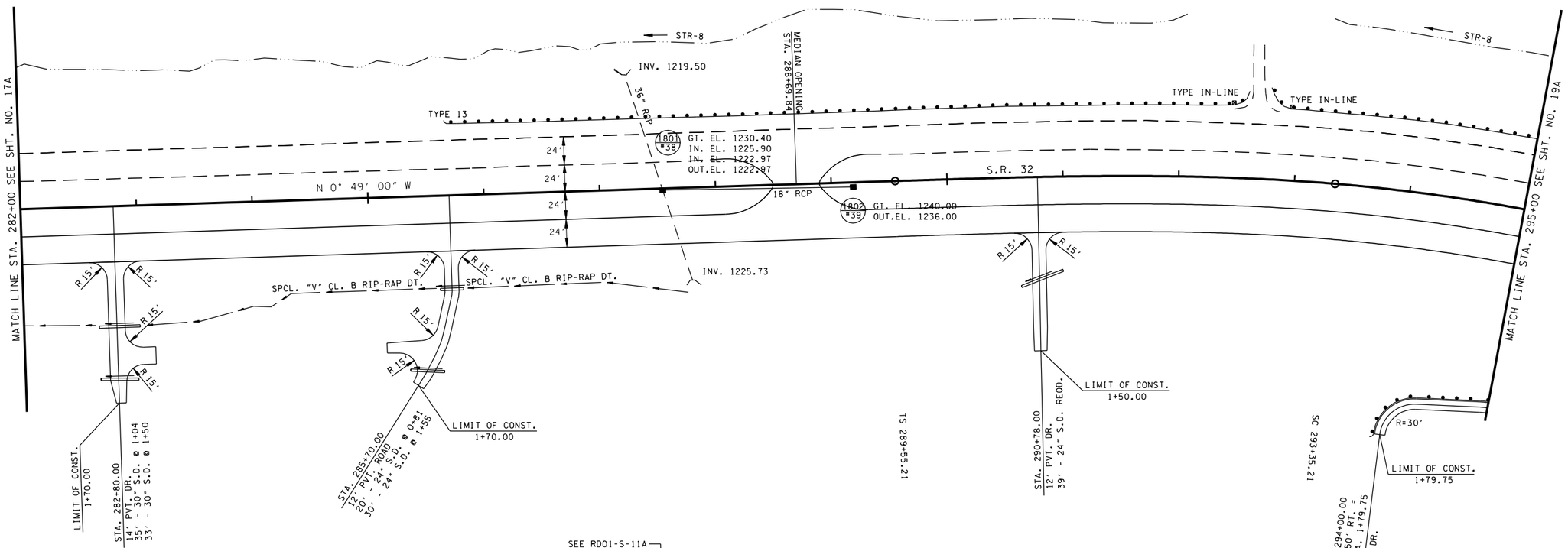
STA. 282+00 TO STA. 295+00

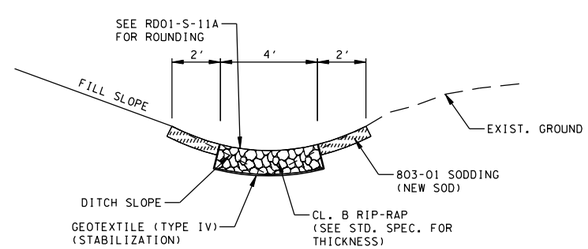
SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval 8-7-12\018.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	18A





SPCL. "V" CL. B RIP-RAP DT.
STA. 272+56.00 TO STA. 287+75.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 282+00 TO STA. 295+00

SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\018A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	18B

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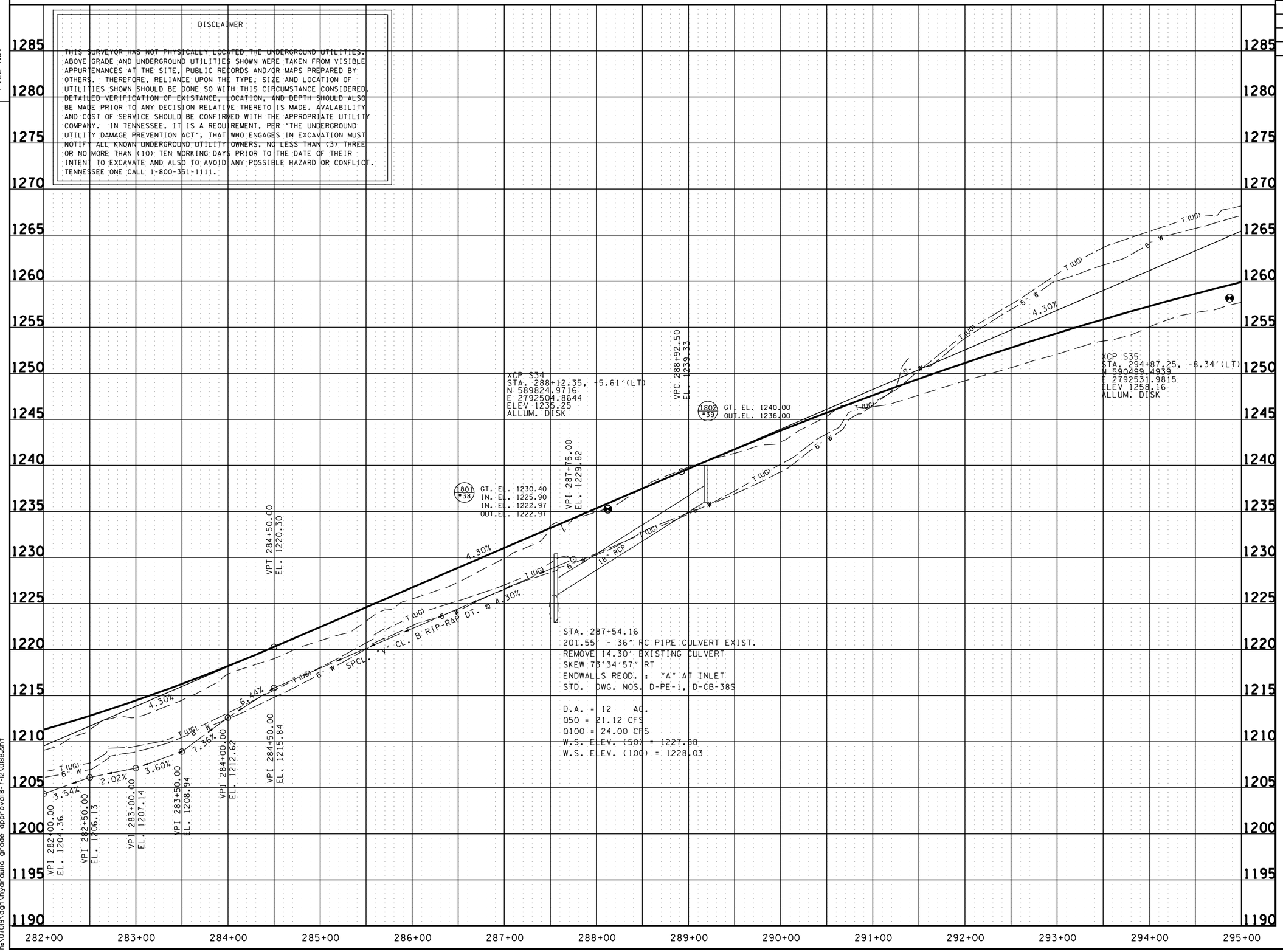

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 282+00 TO STA. 295+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
h:\0709\dgn\hydraulic grade approval8-7-12\018B.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	19

S.R. 32
PI 296+13.99
N 590,626.6170
E 2,792,499.0485
Δs 31° 53′ 50″ (RT)
θs 6° 39′ 00″
Δc 18° 35′ 50″ (RT)
Dc 3° 30′ 00″
Rc 1,637.02
Lc 531.35
Ts 658.78
Ls 380.00
SE 0.071 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′

COSBY CUTOFF NO. 1 STA. 70+00.00 =
S.R. 32 STA. 299+47.68
N 590931.2955
E 2792691.0502

COSBY CUTOFF NO. 1
PI 73+23.63
N 590,773.0808
E 2,792,973.3700
Δ 54° 31′ 30″ (LT)
D 22° 00′ 00″
R 260.44
L 247.84
T 134.20

COSBY CUTOFF NO. 1 STA. 76+62.30
N 590926.3688
E 2793298.2644

ALBERT B. BAXTER
ARTHUR L. BAXTER
LAYMAN CEMETERY
CITY OF NEWPORT
COCONUT ROAD
S.R. 32
N 31° 04′ 50″ E
NEWPORT CITY LIMITS
MATCH LINE STA. 295+00 SEE SHT. NO. 18
MATCH LINE STA. 308+00 SEE SHT. NO. 20

SEALED BY

HYDRAULIC GRADE APPROVAL

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 295+00 TO STA. 308+00

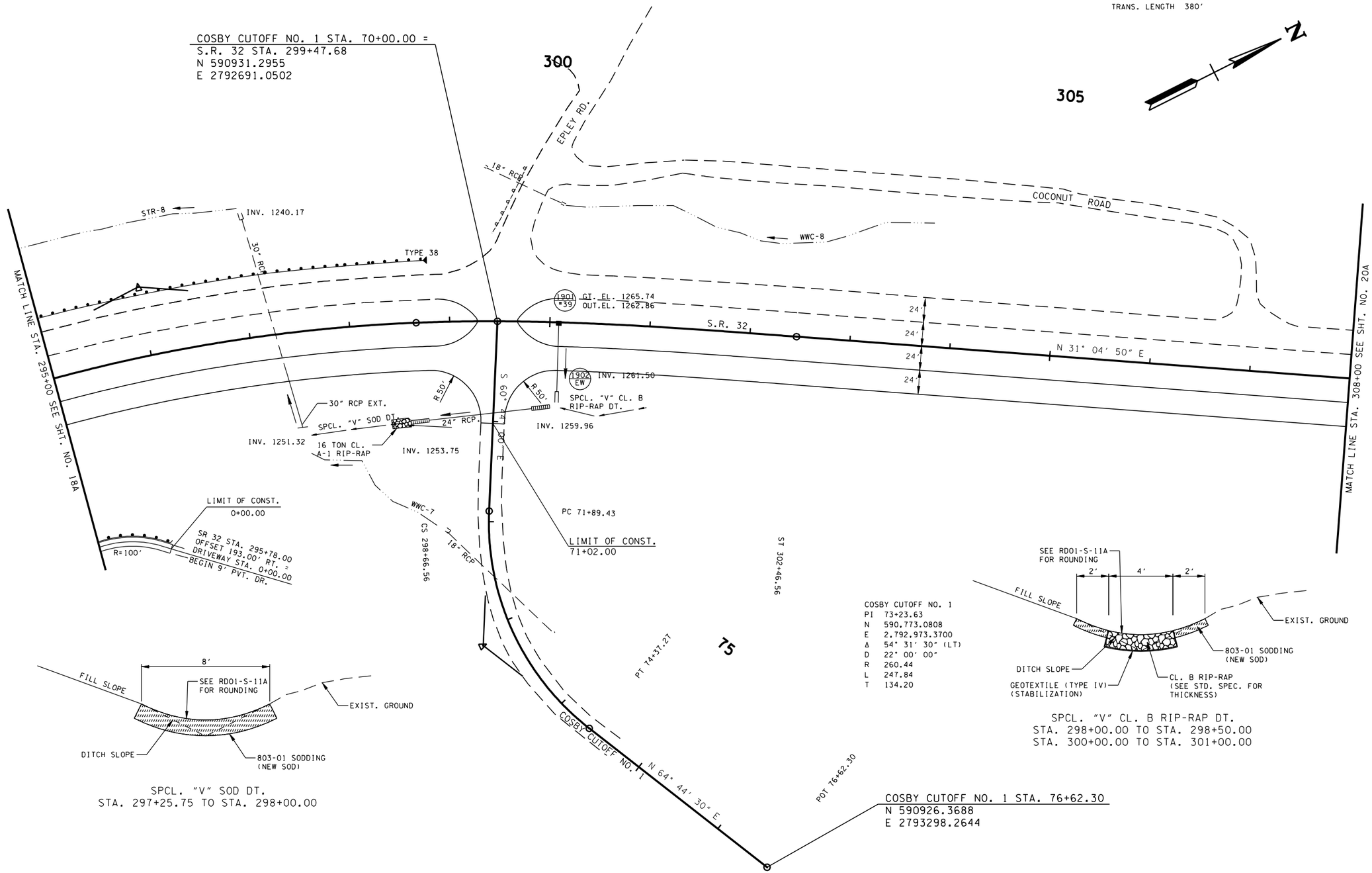
SCALE: 1"= 50′

8/7/2012
h:\07019\dgn\hydraulic grade approval 8-7-12\019.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	19A

S.R. 32
PI 296+13.99
N 590,626.6170
E 2,792,499.0485
Δs 31° 53′ 50″ (RT)
θs 6° 39′ 00″
Δc 18° 35′ 50″ (RT)
Dc 3° 30′ 00″
Rc 1,637.02
Lc 531.35
Ts 658.78
Ls 380.00
SE 0.071 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′



SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 295+00 TO STA. 308+00

SCALE: 1"= 50′

8/17/2012
h:\07019\dgn\hydraulic grade approval8-7-12\019A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	19B

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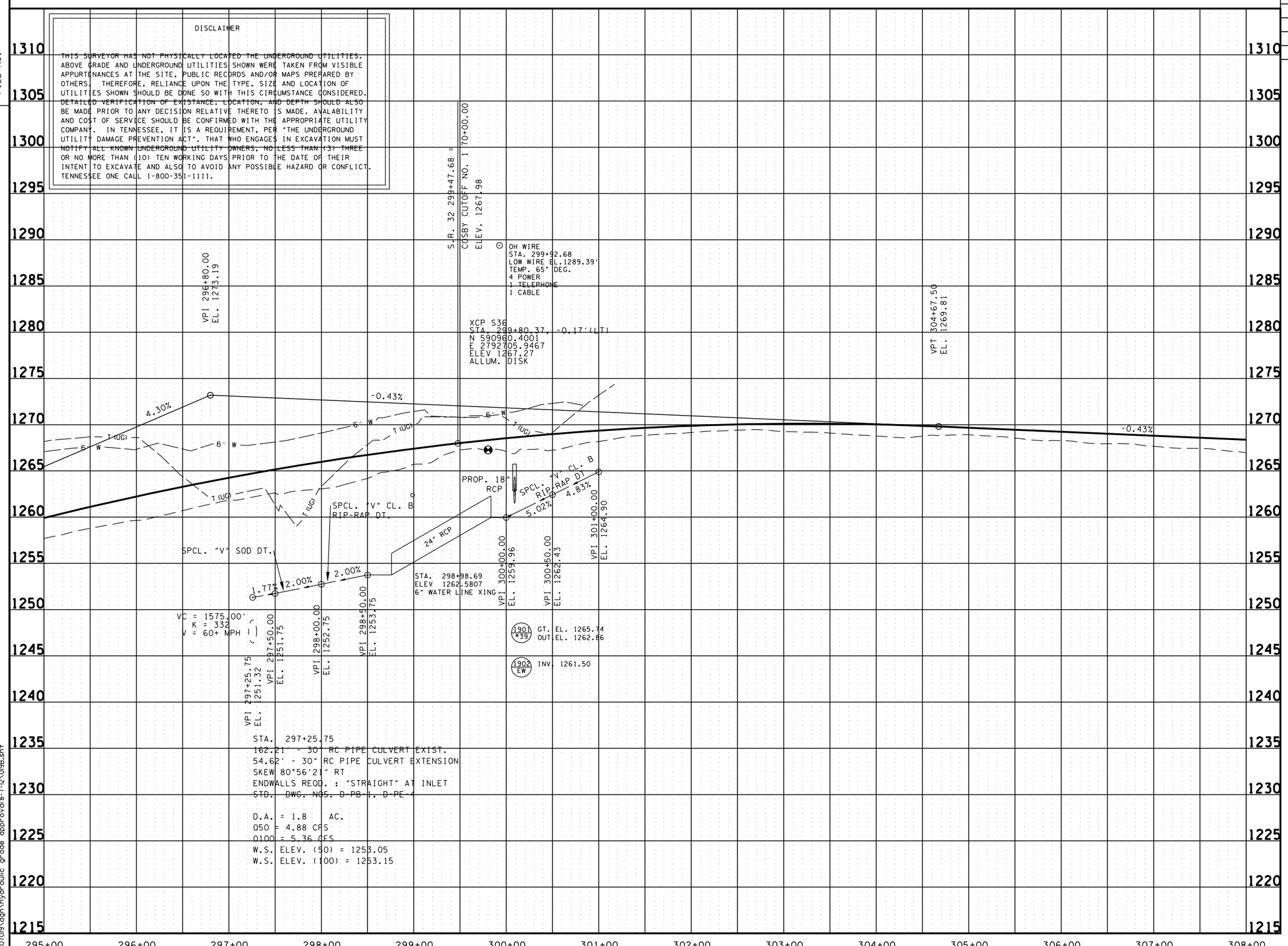


SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

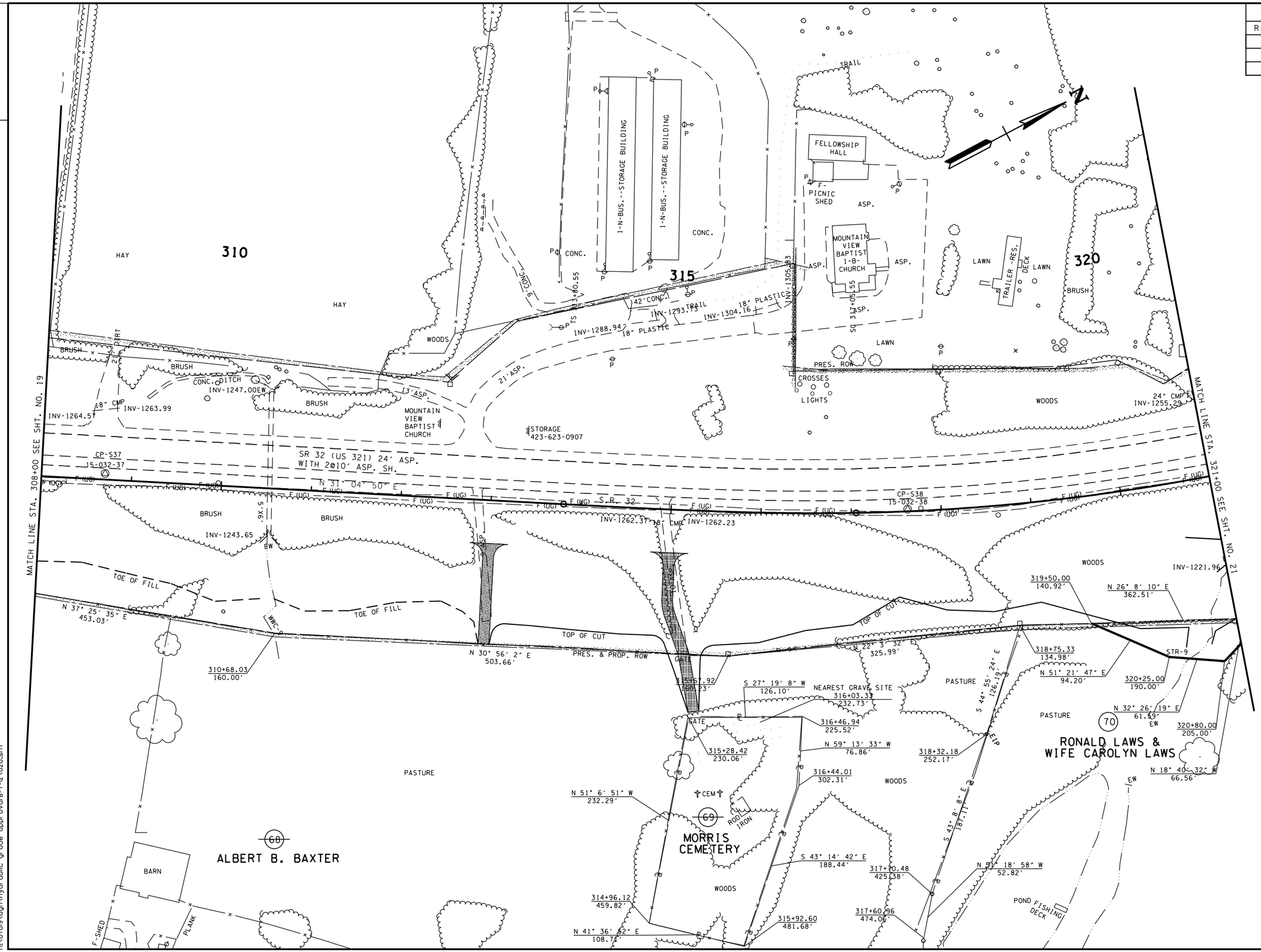
PROFILE

STA. 295+00 TO STA. 308+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\019B.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	20



SEALED BY

HYDRAULIC GRADE APPROVAL

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

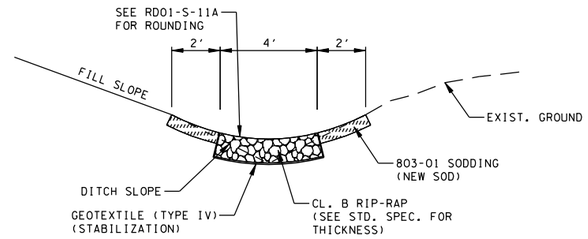
STA. 308+00 TO STA. 321+00

SCALE: 1"= 50'

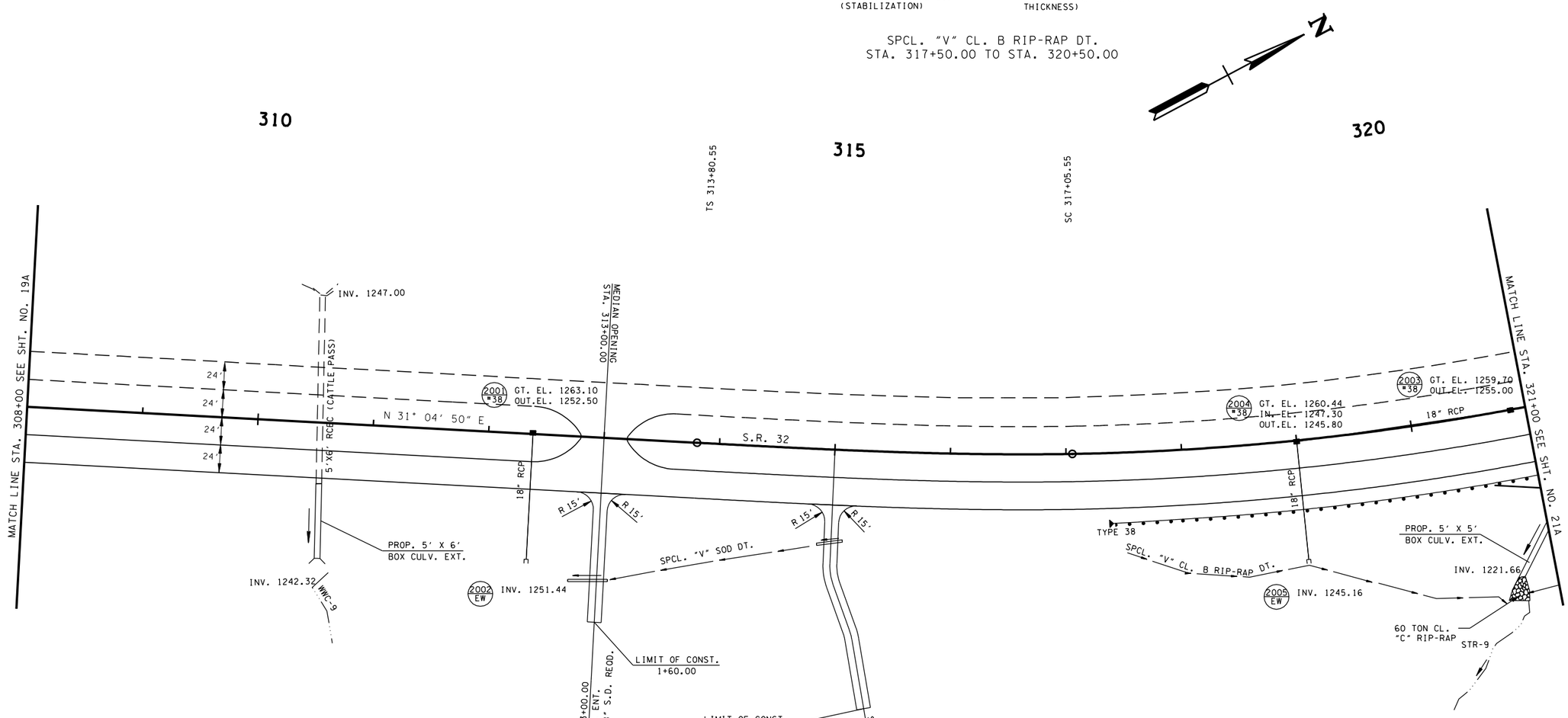
8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\020.sht

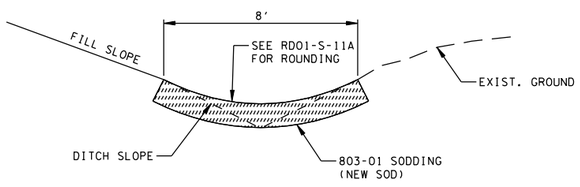
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	20A



SPCL. "V" CL. B RIP-RAP DT.
STA. 317+50.00 TO STA. 320+50.00





SPCL. "V" SOD DT.
STA. 312+50.00 TO STA. 315+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 308+00 TO STA. 321+00

SCALE: 1"= 50'

8/7/2012
h:\07019\dgn\hydraulic grade approval8-7-12\020A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	20B

DISCLAIMER

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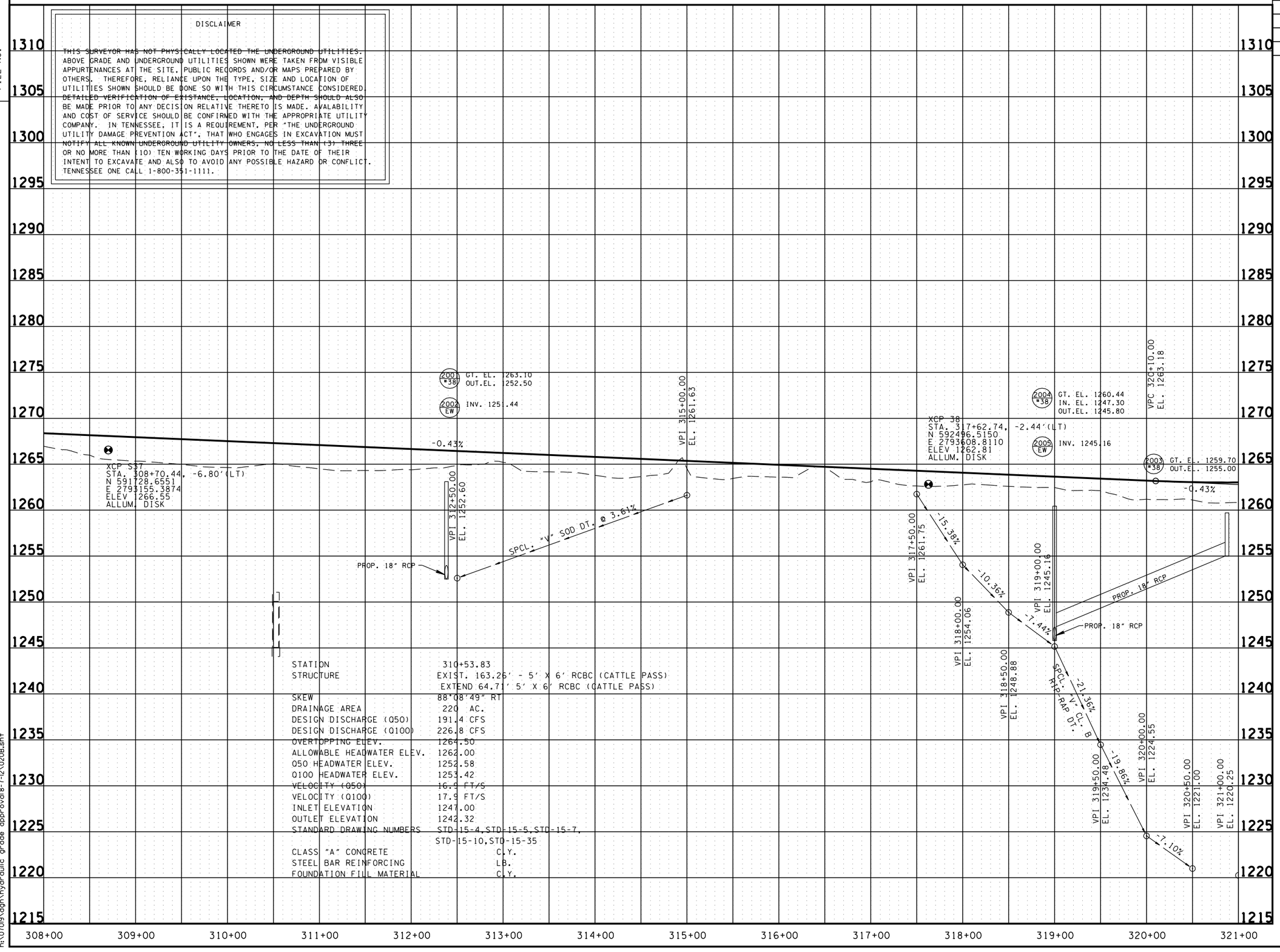

STATION	310+53.83
STRUCTURE	EXIST. 163.26' - 5' X 6' RCBC (CATTLE PASS)
	EXTEND 64.71' 5' X 6' RCBC (CATTLE PASS)
SKEW	88°08'49" RT
DRAINAGE AREA	220 AC.
DESIGN DISCHARGE (Q50)	191.4 CFS
DESIGN DISCHARGE (Q100)	226.8 CFS
OVERTOPPING ELEV.	1264.50
ALLOWABLE HEADWATER ELEV.	1262.00
Q50 HEADWATER ELEV.	1252.58
Q100 HEADWATER ELEV.	1253.42
VELOCITY (Q50)	16.9 FT/S
VELOCITY (Q100)	17.9 FT/S
INLET ELEVATION	1247.00
OUTLET ELEVATION	1242.32
STANDARD DRAWING NUMBERS	STD-15-4,STD-15-5,STD-15-7, STD-15-10,STD-15-35
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
FOUNDATION FILL MATERIAL	C.Y.

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 302+00 TO STA. 321+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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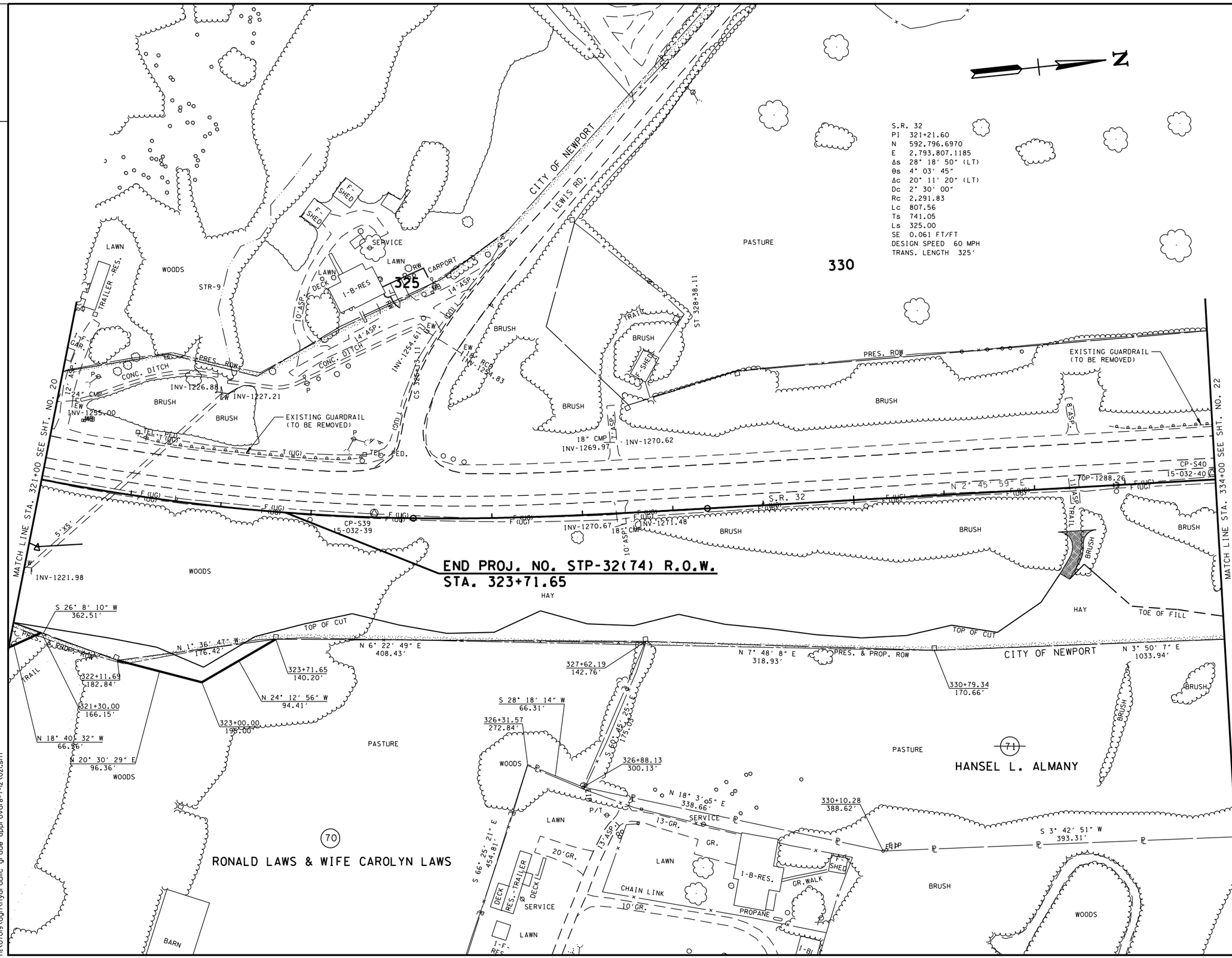
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	21



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 321+00 TO STA. 334+00

SCALE: 1"= 50'

8/17/2012
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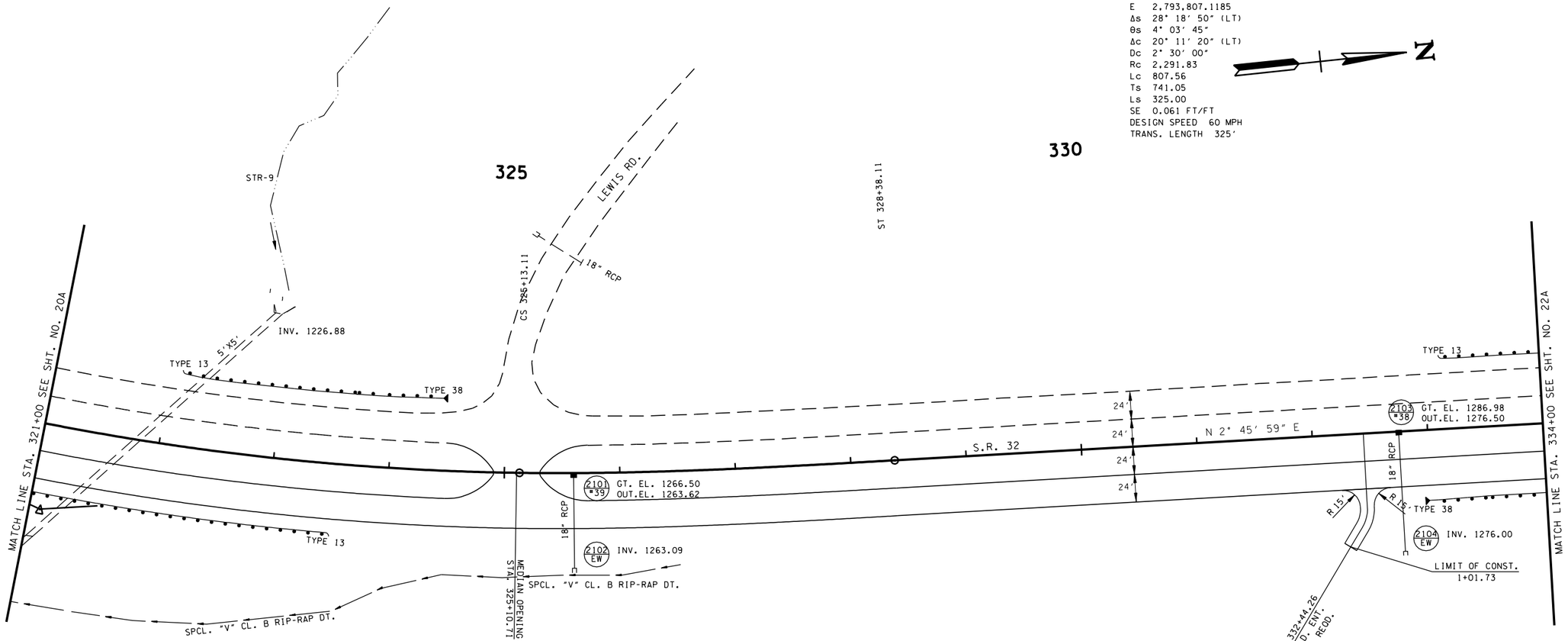
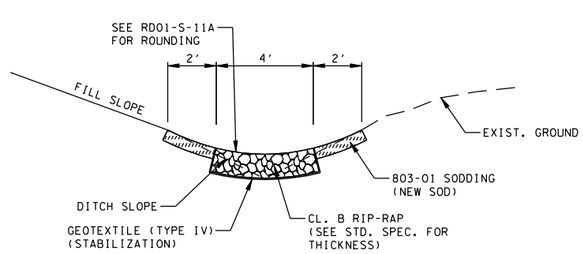
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	21A

S.R. 32
PI 321+21.60
N 592,796.6970
E 2,793,807.1185
Δs 28° 18′ 50″ (LT)
θs 4° 03′ 45″
Δc 20° 11′ 20″ (LT)
Dc 2° 30′ 00″
Rc 2,291.83
Lc 807.56
Ts 741.05
Ls 325.00
SE 0.061 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 325′





SPCL. "V" CL. B RIP-RAP DT.
STA. 321+00.00 TO STA. 326+50.00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 321+00 TO STA. 334+00

SCALE: 1"= 50′

8/17/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	21B

DISCLAIMER

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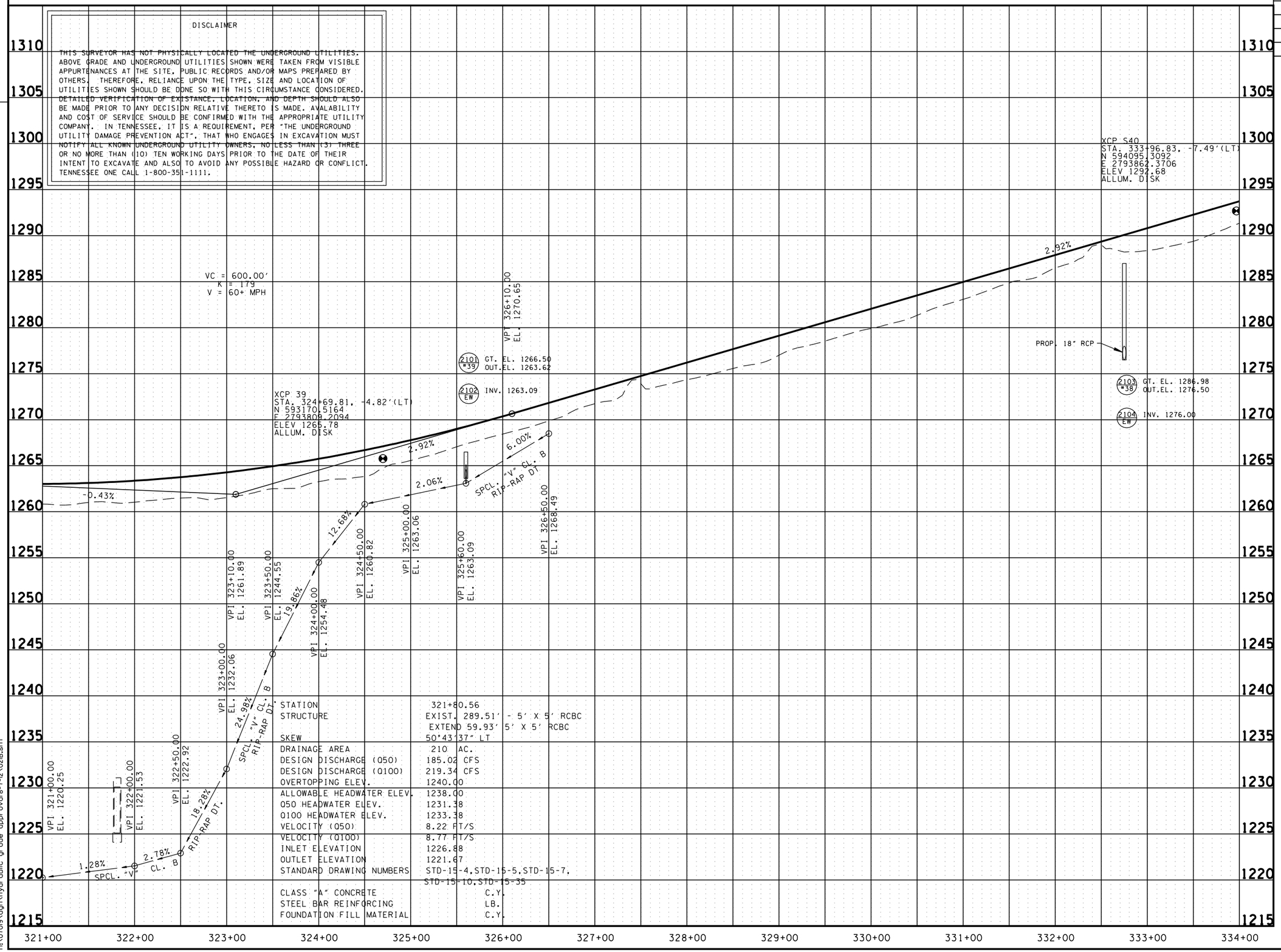

STATION	321+80.56
STRUCTURE	EXIST. 289.51' - 5' X 5' RCBC EXTEND 59.93' 5' X 5' RCBC
SKEW	50°43'37" LT
DRAINAGE AREA	210 AC.
DESIGN DISCHARGE (Q50)	185.02 CFS
DESIGN DISCHARGE (Q100)	219.34 CFS
OVERTOPPING ELEV.	1240.00
ALLOWABLE HEADWATER ELEV.	1238.00
Q50 HEADWATER ELEV.	1231.38
Q100 HEADWATER ELEV.	1233.38
VELOCITY (Q50)	8.22 FT/S
VELOCITY (Q100)	8.77 FT/S
INLET ELEVATION	1226.88
OUTLET ELEVATION	1221.67
STANDARD DRAWING NUMBERS	STD-15-4,STD-15-5,STD-15-7, STD-15-10,STD-15-35
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
FOUNDATION FILL MATERIAL	C.Y.

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 321+00 TO STA. 334+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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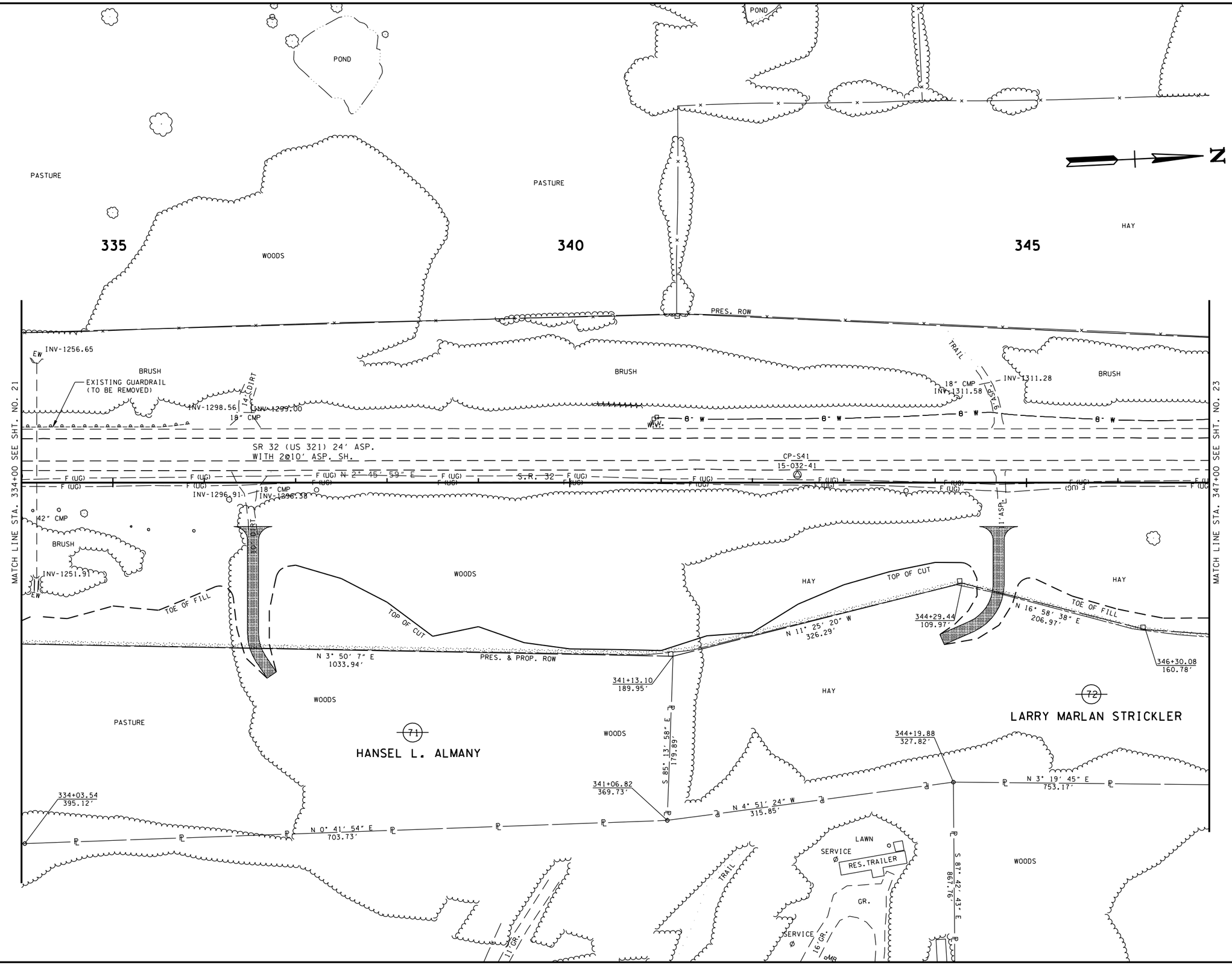
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	22



SEALED BY

HYDRAULIC GRADE APPROVAL

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000110 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 334+00 TO STA. 347+00

SCALE: 1"= 50'

8/17/2012
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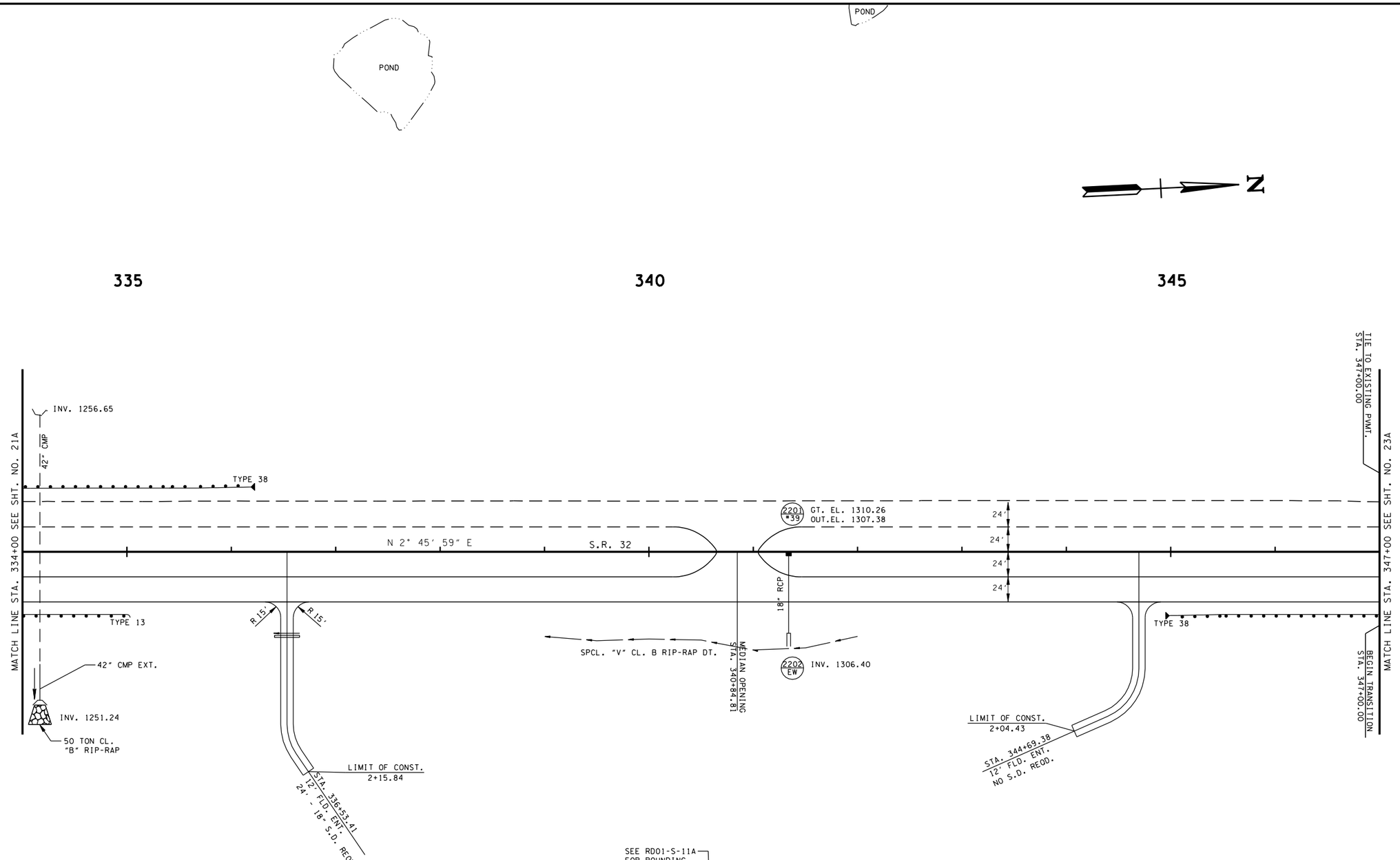
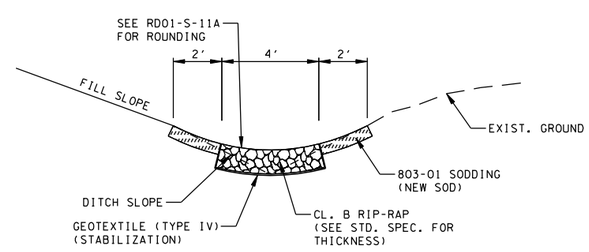
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	22A





SPCL. "V" CL. B RIP-RAP DT.
STA. 339+00.00 TO STA. 342+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 334+00 TO STA. 347+00

SCALE: 1"= 50'

8/7/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	22B

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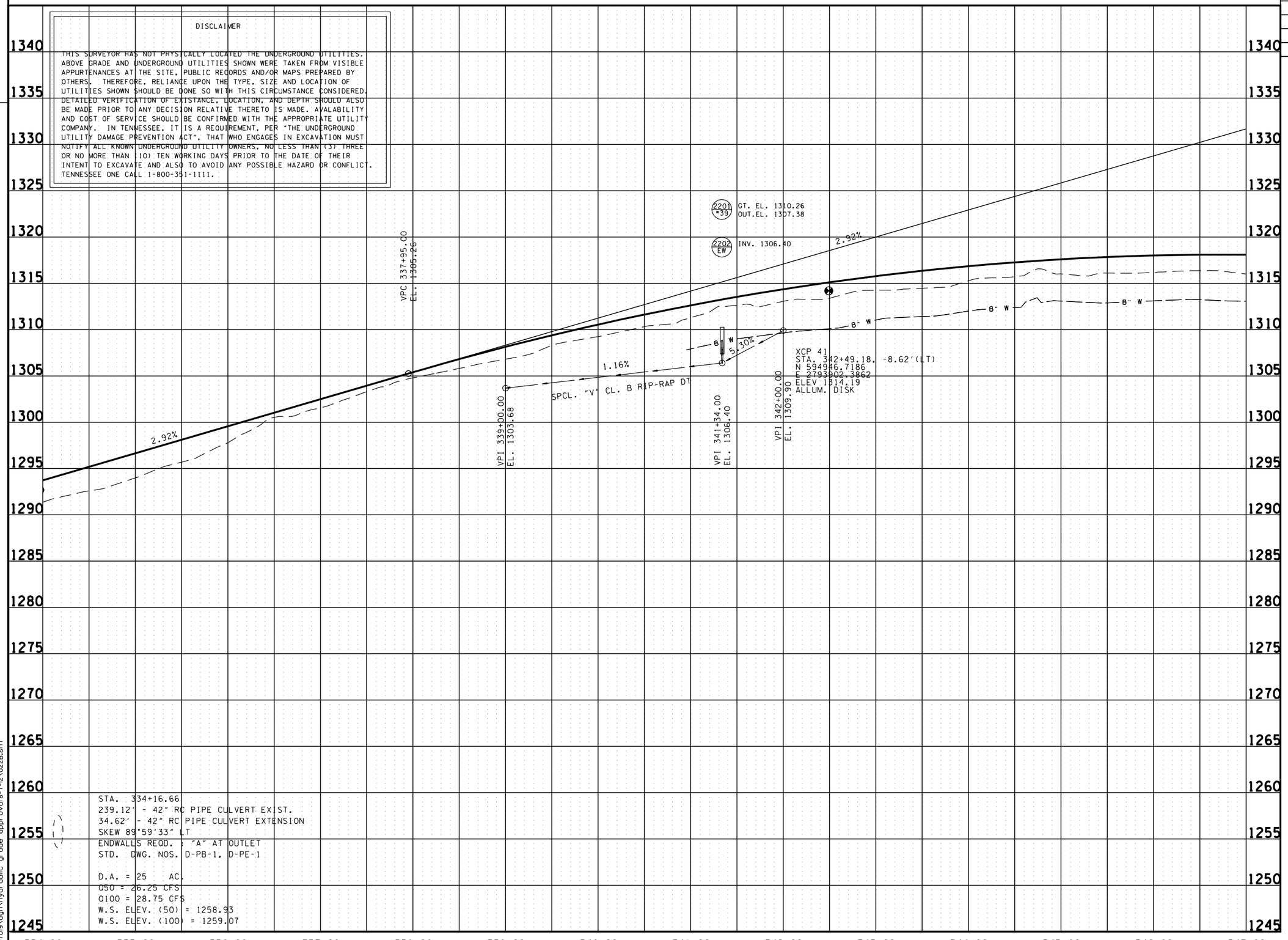

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 334+00 TO STA. 347+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/17/2012
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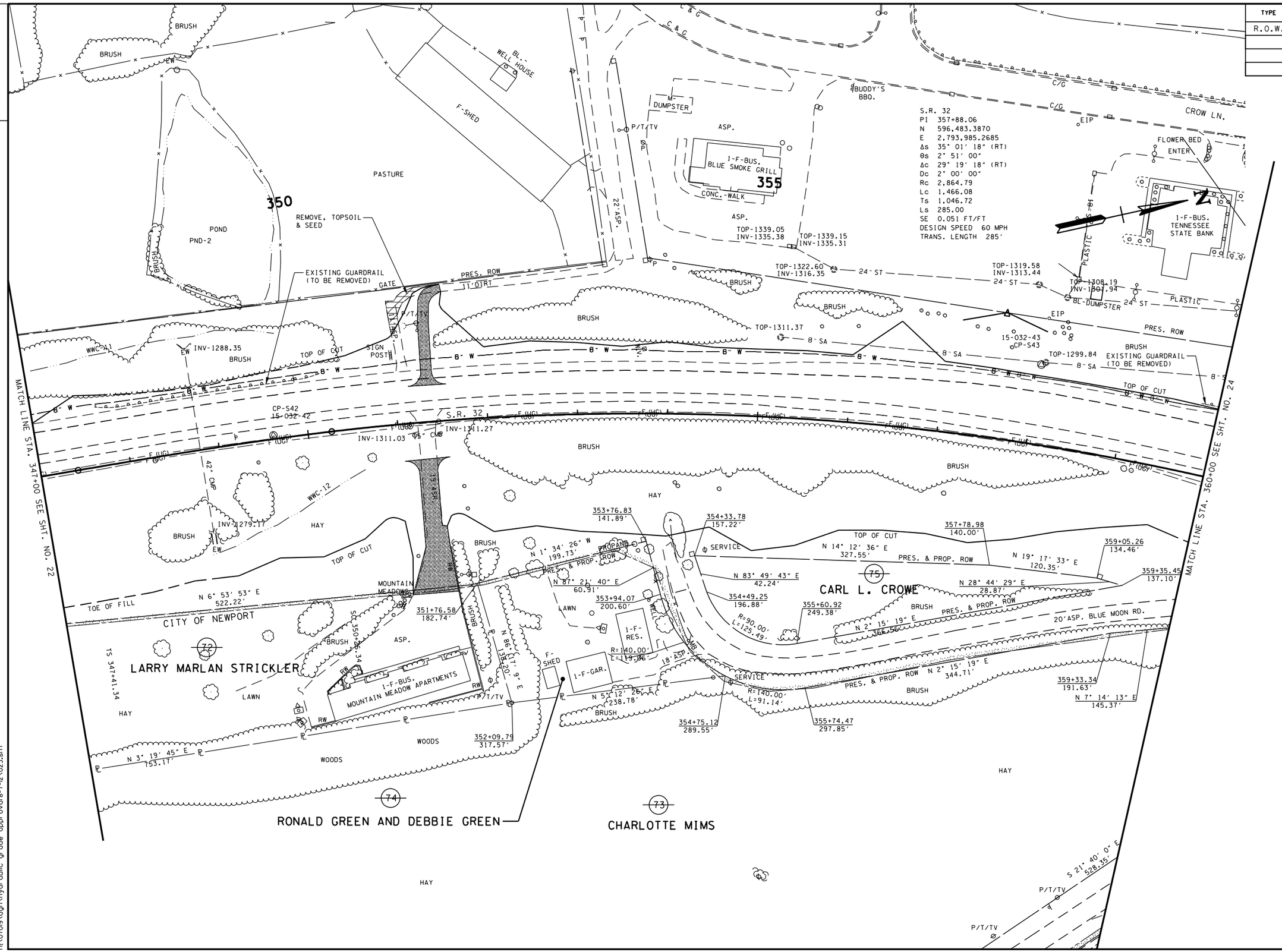
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	23



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 347+00 TO STA. 360+00

SCALE: 1"= 50'

8/7/2012
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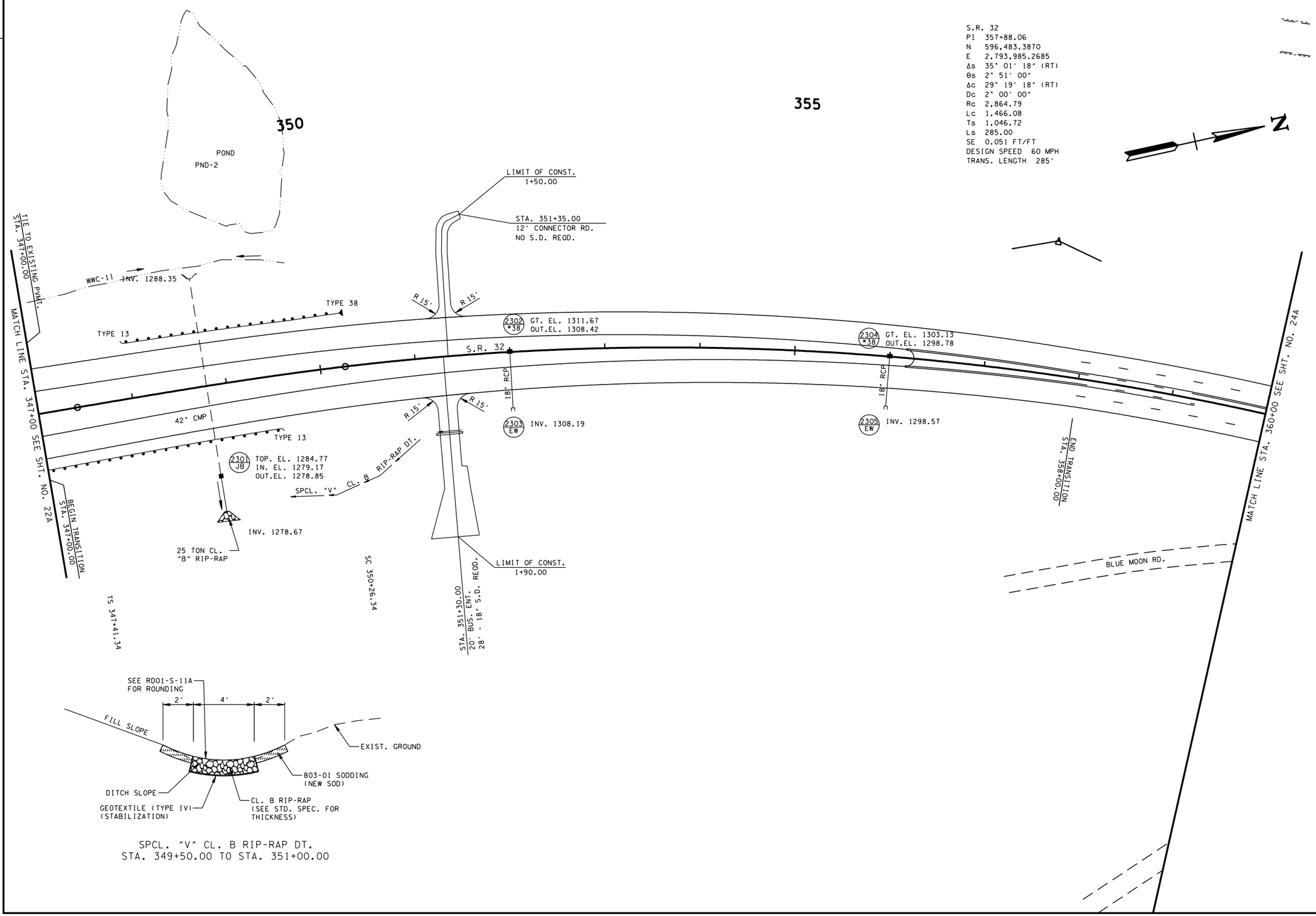
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	23A

S.R. 32
PI 357+88.06
N 596,483.3870
E 2,793,985.2685
Δs 35° 01' 18" (RT)
Θs 2° 51' 00"
Δc 29° 19' 18" (RT)
Dc 2° 00' 00"
Rc 2,864.79
Lc 1,466.08
Ts 1,046.72
Ls 285.00
SE 0.051 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 285'



SPCL. "V" CL. B RIP-RAP DT.
STA. 349+50.00 TO STA. 351+00.00

SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 347+00 TO STA. 360+00

SCALE: 1"= 50'

8/7/2012
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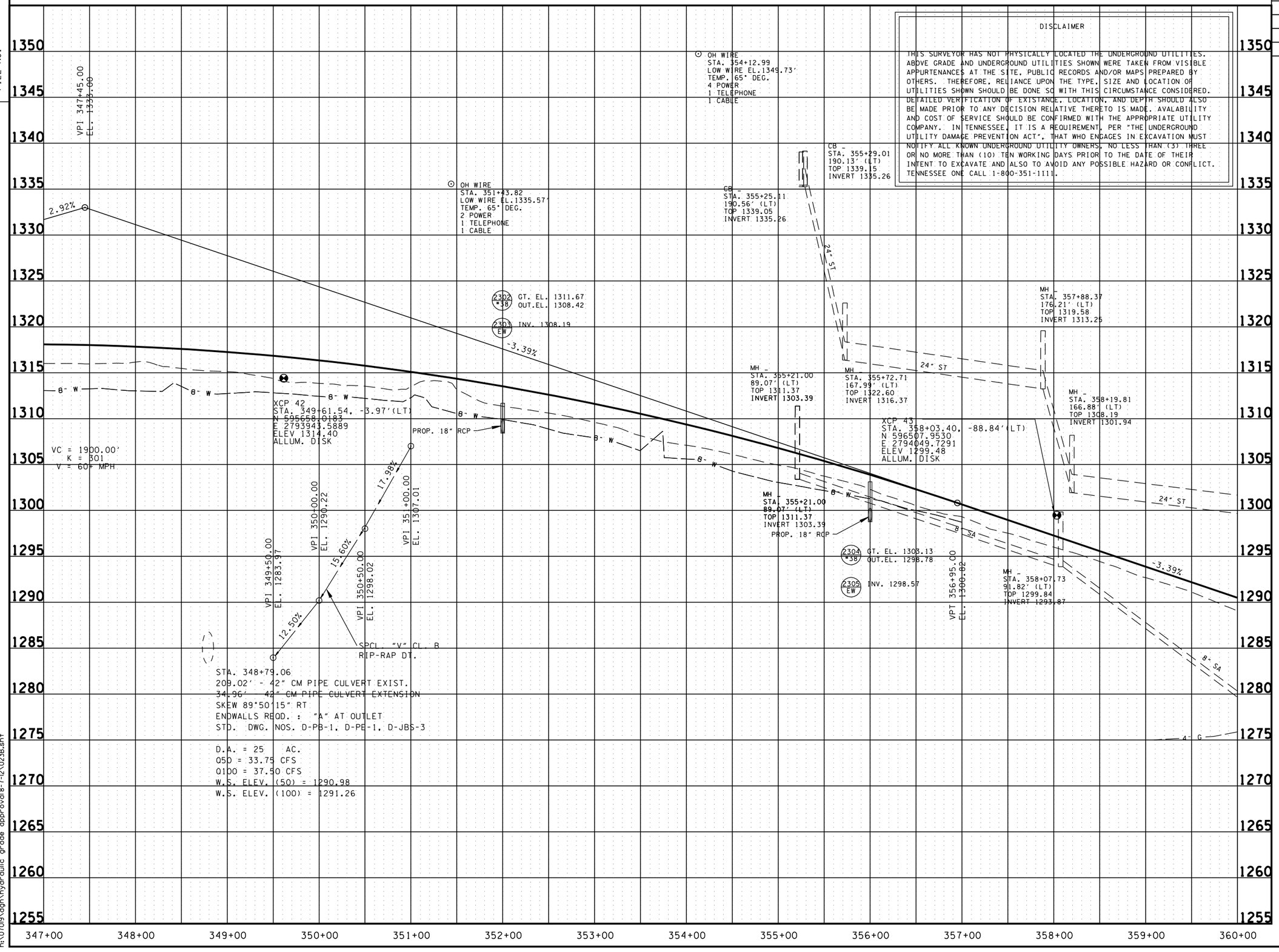
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	23B



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SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 347+00 TO STA. 360+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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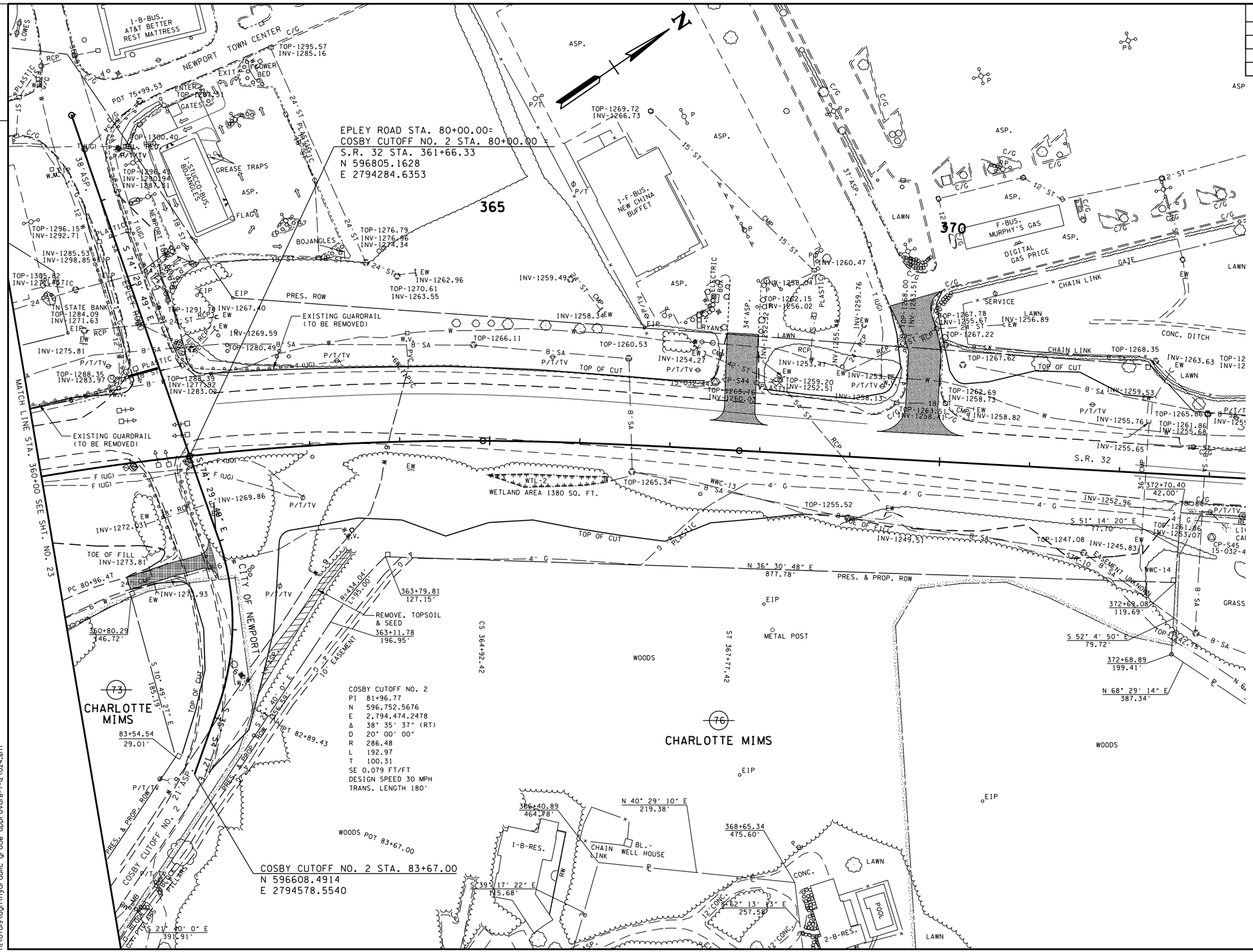
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	24



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 360+00 TO END PROJ.

SCALE: 1"= 50'

8/7/2012
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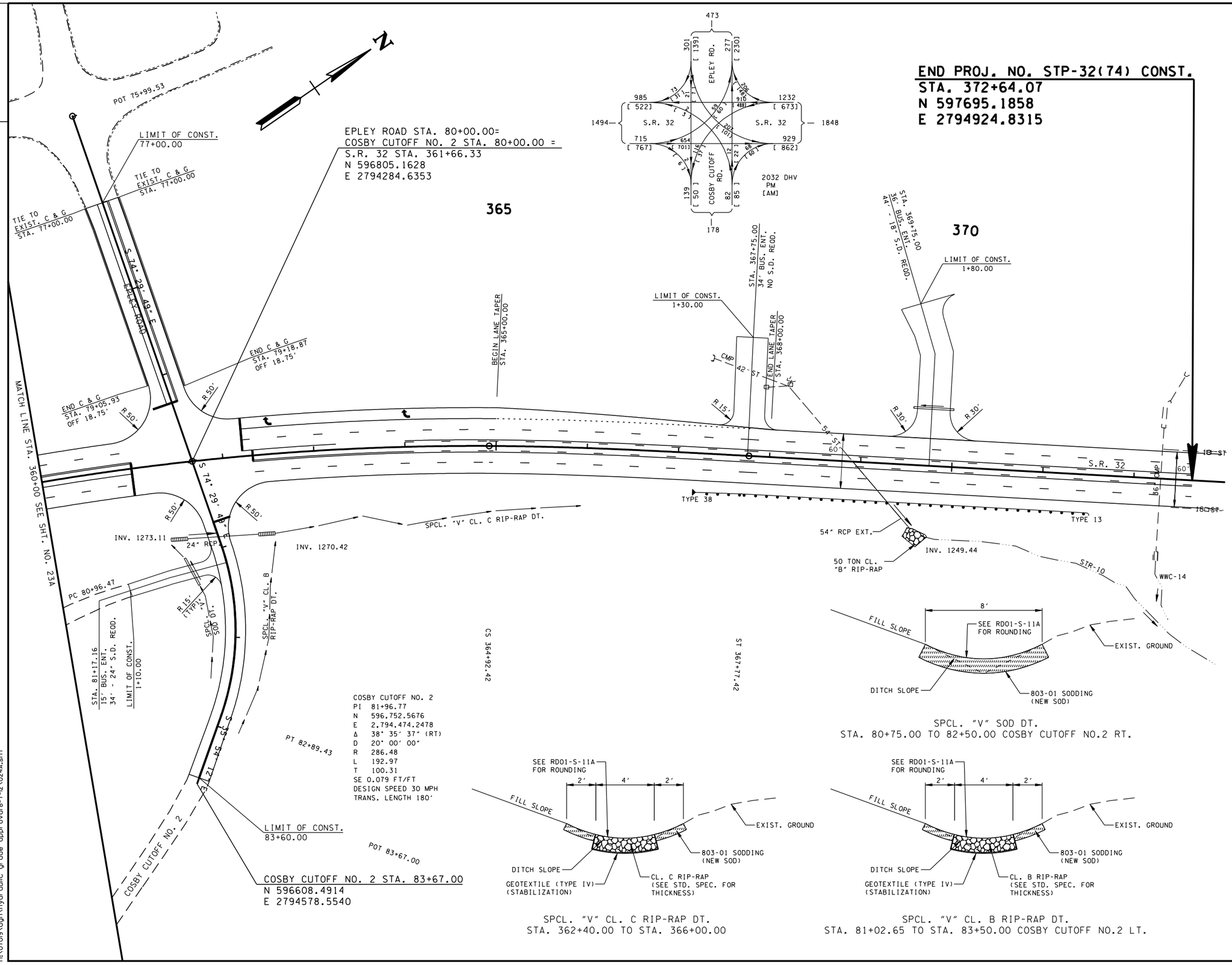
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	24A



SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 360+00 TO END PROJ.

SCALE: 1"= 50'

8/7/2012
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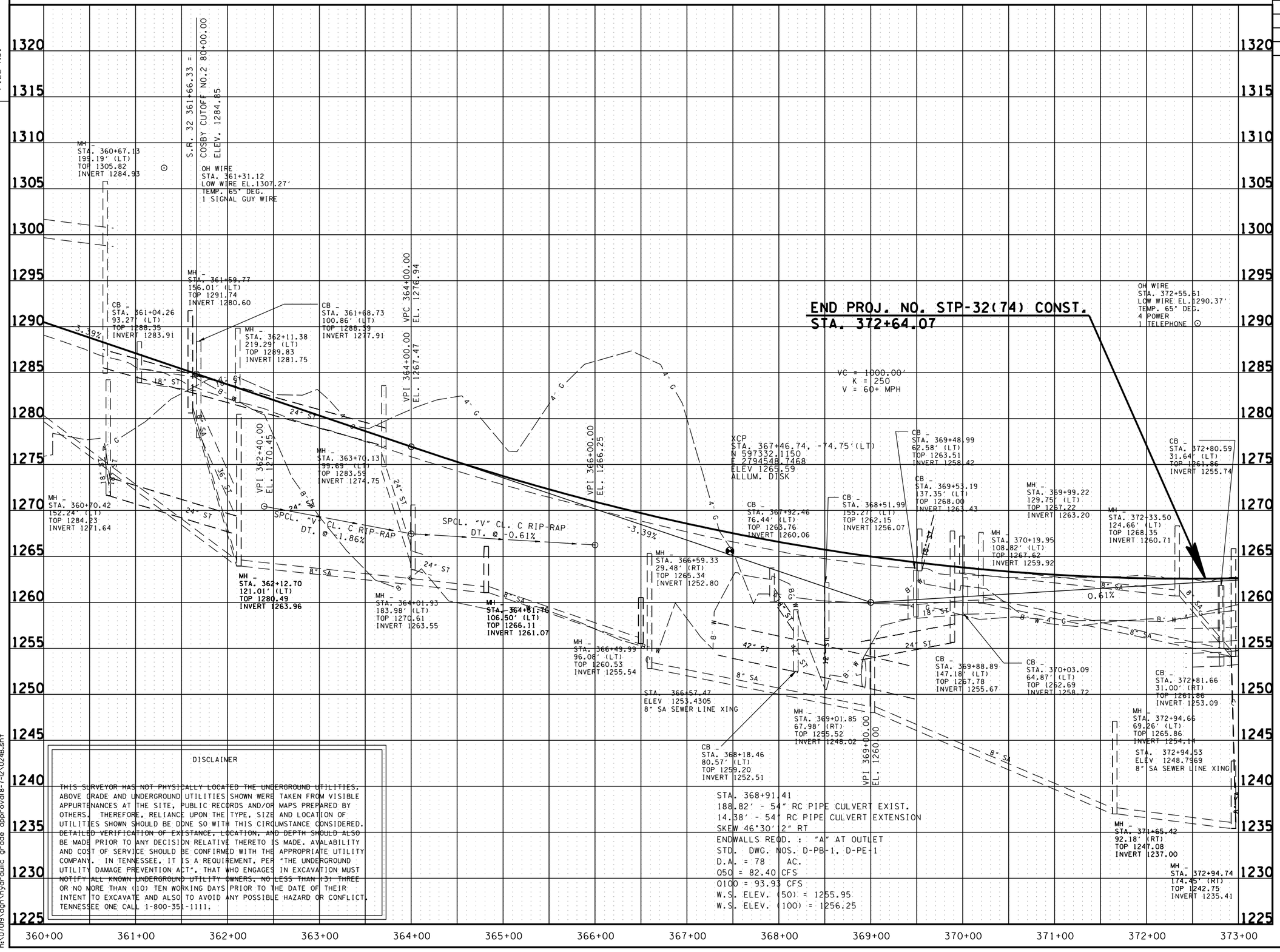
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-32(74)	24B



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 360+00 TO STA. 373+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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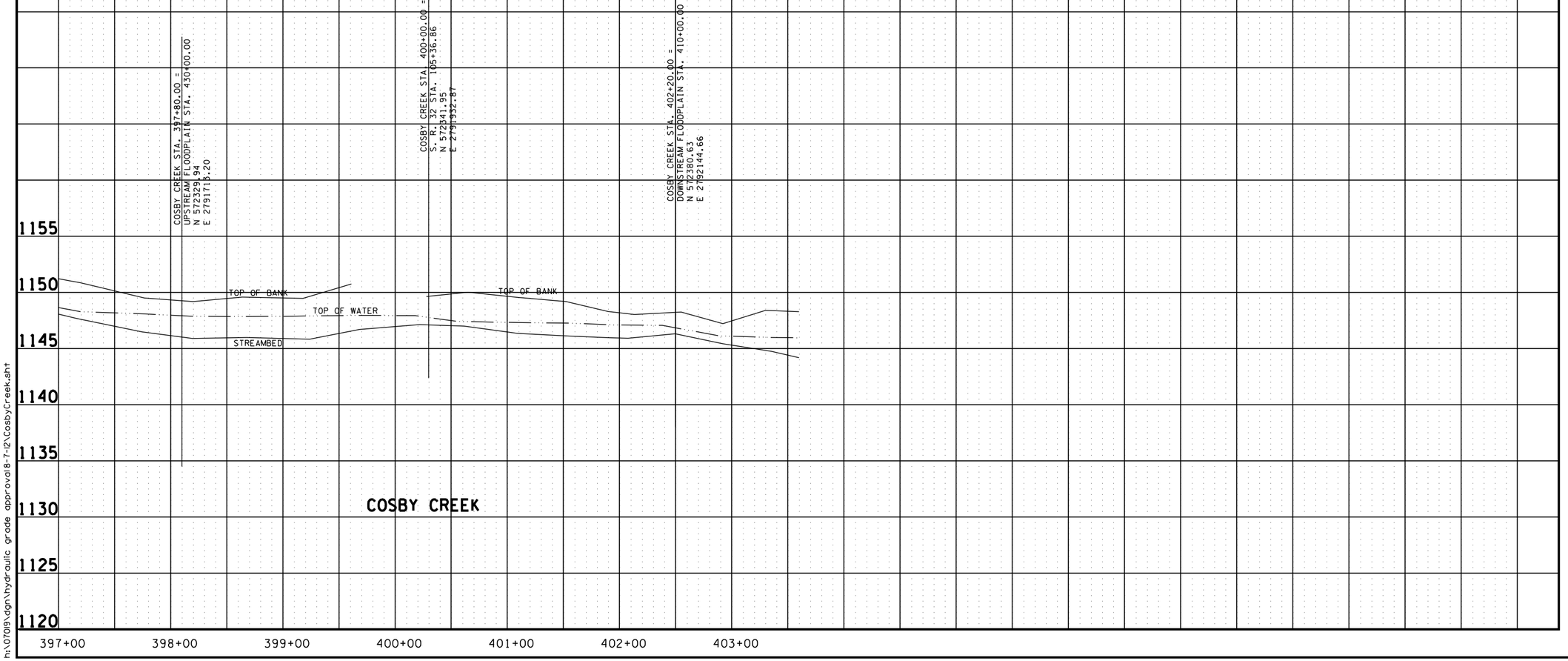
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

COSBY CREEK STREAM DATA

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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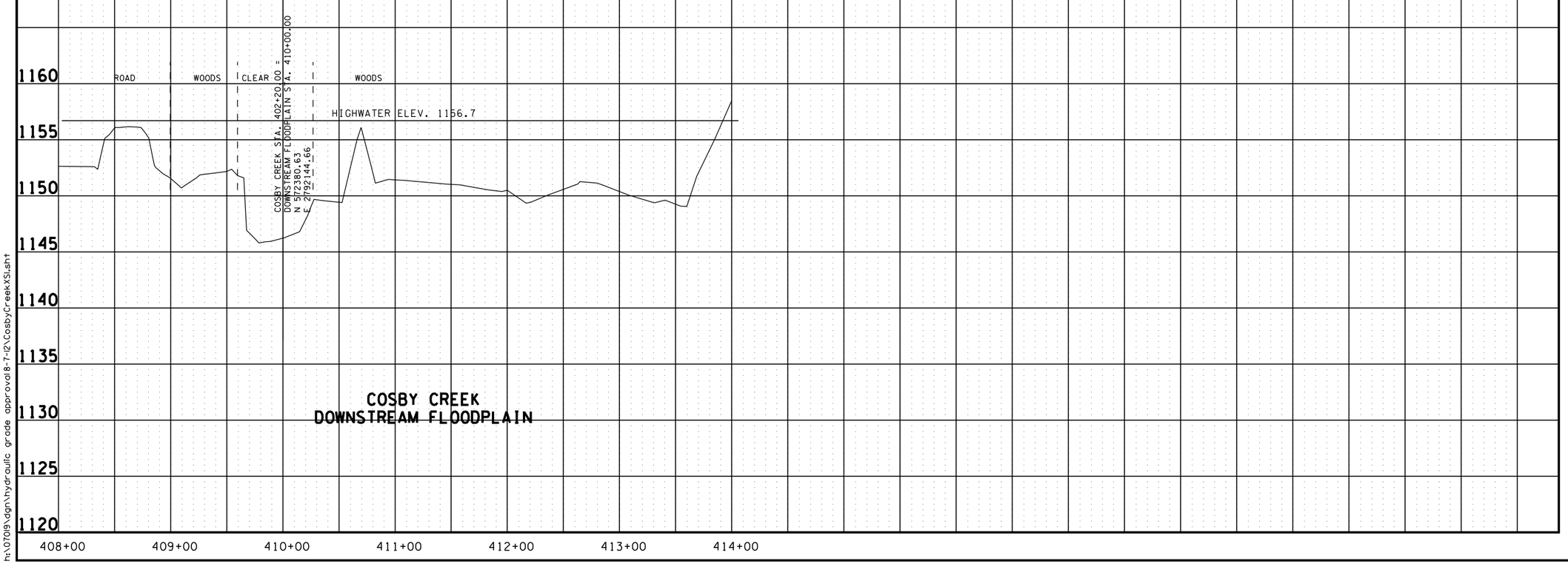
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

COSBY CREEK STREAM DATA

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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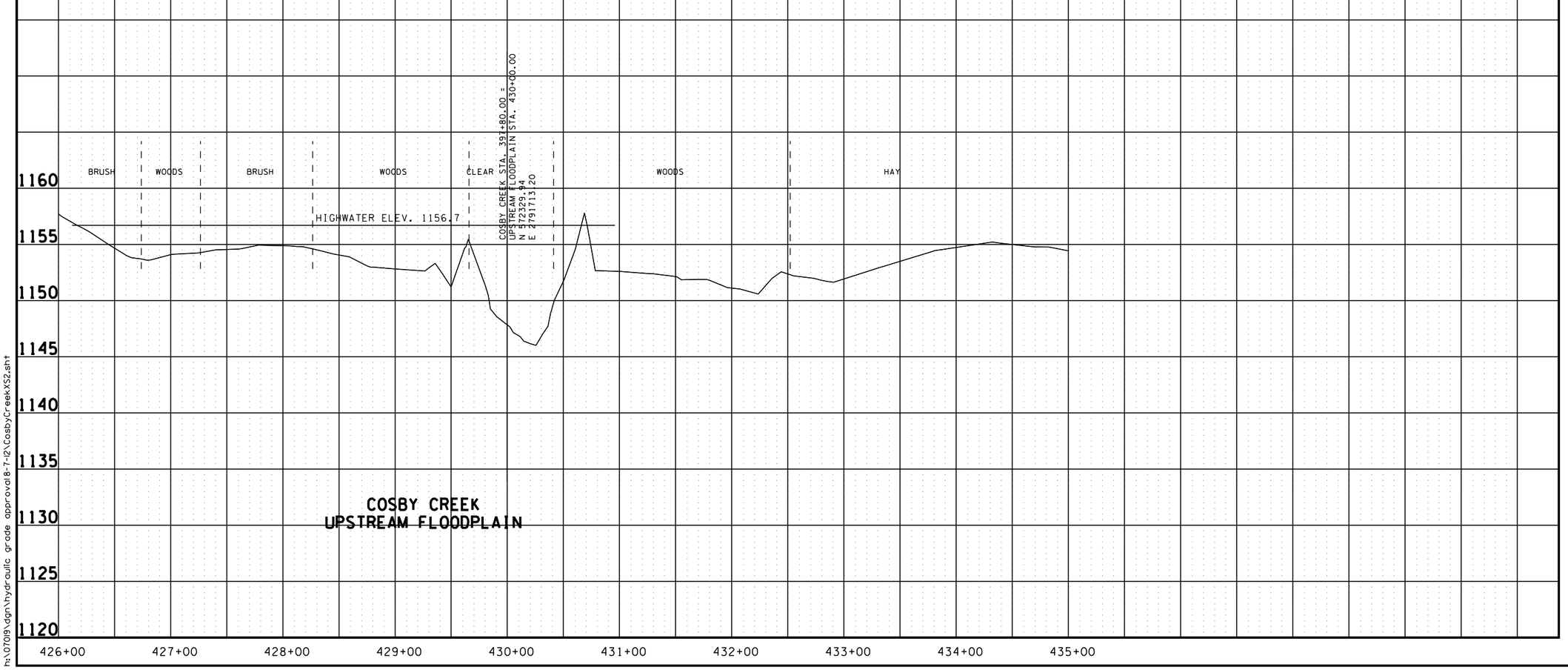
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

COSBY CREEK
STREAM DATA

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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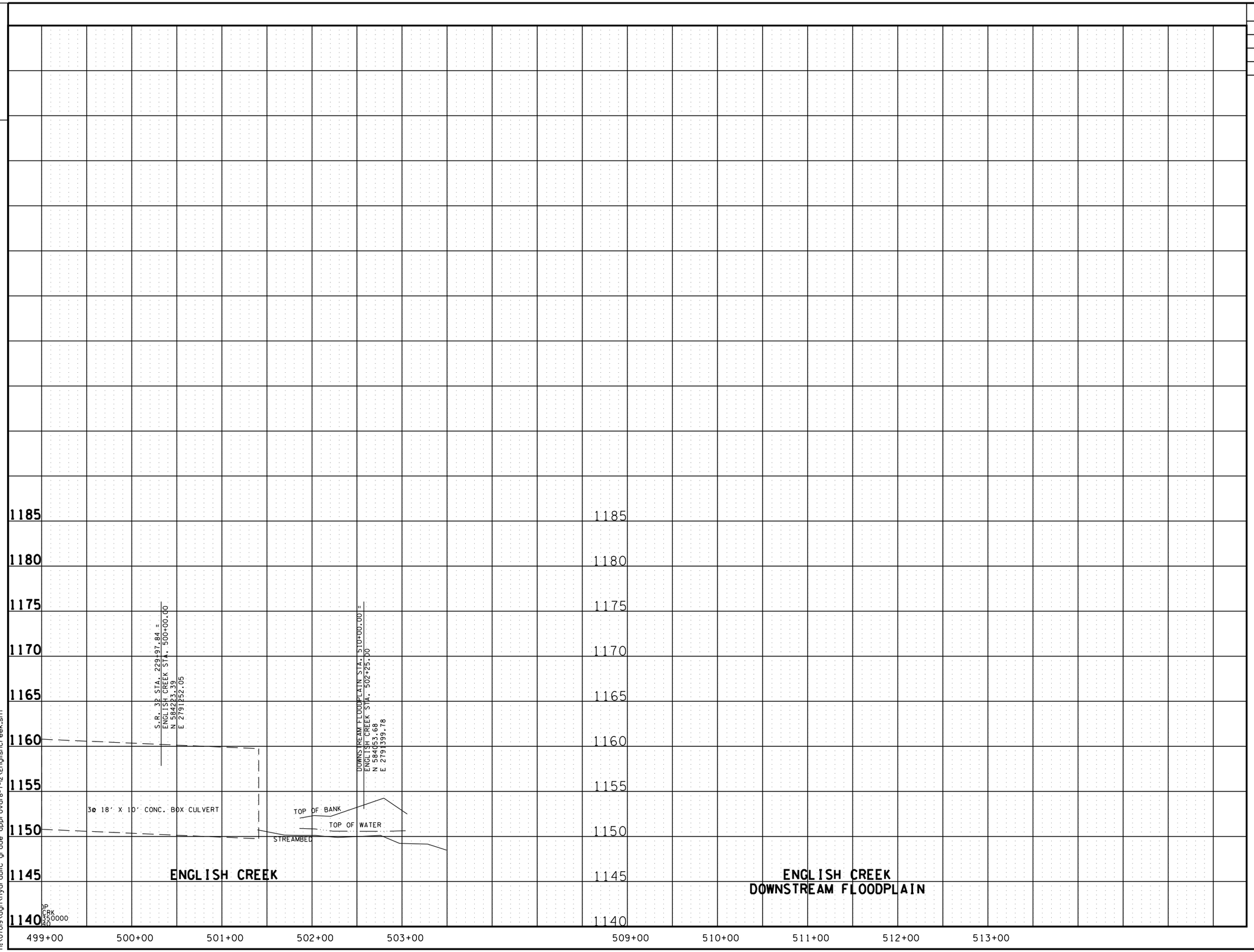
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.



SEALED BY

HYDRAULIC GRADE APPROVAL

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENGLISH CREEK STREAM DATA

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/7/2012
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