Index Of Sheets
(SEE SHEET 1A)

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	26952-3509-04	

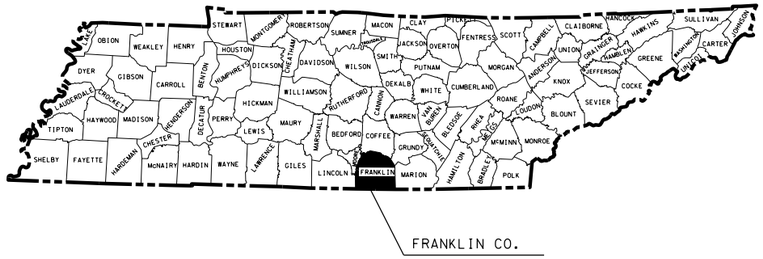
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

FRANKLIN COUNTY

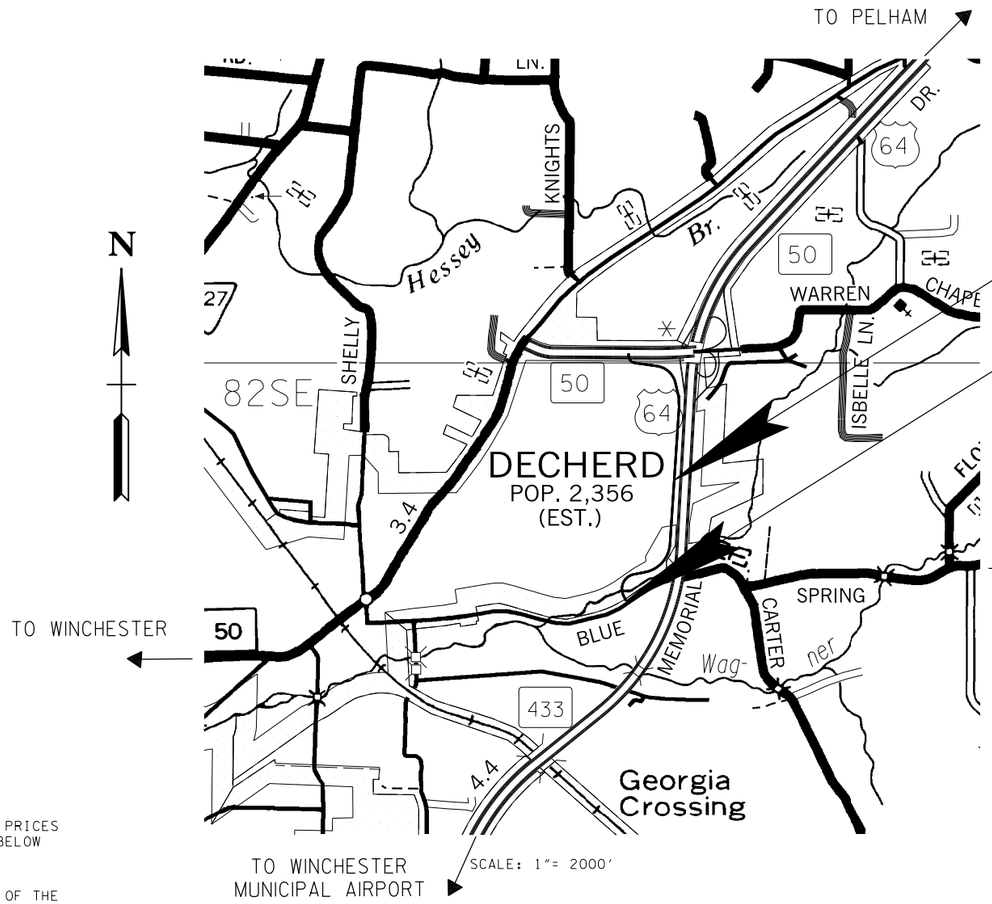
INDUSTRIAL ACCESS ROAD SERVING NISSAN NORTH AMERICA IN DECHERD

PHASE A, CONSTRUCTION

STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A



ROAD TO BE CLOSED
DURING CONSTRUCTION



PHASE A
END PROJ. 26952-3509-04 CONST.
STA. 38+50.00

PHASE A
BEGIN PROJ. 26952-3509-04 CONST.
STA. 0+00.00

NO OUTLET

UNOFFICIAL SET
NOT FOR BIDDING

NO EXCLUSIONS
NO EQUATIONS

SEALED BY

ORIGINAL SURVEY: 12/16/2013
ADDITIONAL SURVEY : 06/19/2014
ADDITIONAL SURVEY : 02/03/2015

TRAFFIC DATA	
ADT (2015)	3850
ADT (2035)	3850
DHV (2035)	1031
D	50 - 50
T (ADT)	1 %
T (DHV)	1 %
V	35 MPH

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

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 JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

ROADWAY LENGTH	0.676 MILES
BRIDGE LENGTH	0.053 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.729 MILES

TDOT C.E. MANAGER 2 ATAUR RAHMAN

DESIGNER ERNEST MCDONALD CHECKED BY WANDA JORDAN

P.E. NO. 26952-1509-04

PIN NO. 118868.02

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	1A

INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A-1B
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX	2
ESTIMATED ROADWAY QUANTITIES	2A
ESTIMATED UTILITIES QUANTITIES	2B – 2B1
TYPICAL SECTIONS AND PAVING SCHEDULE	2C – 2E
GENERAL NOTES AND SPECIAL NOTES	2F-2H
TABULATED QUANTITIES	2I
DRAINAGE EASEMENTS DETAILS	2J-2K
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES	3 - 3B
PRESENT LAYOUTS	4 - 8
PROPOSED LAYOUTS	4A - 8A
PROPOSED PROFILES	4B - 8B
PROFILE OF SIDE ROADS AND STREETS	9 – 10
ENTRANCE RAMP PROFILES	11
DRAINAGE MAPS	12 -13
CULVERT SECTIONS	14 – 16
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) NOTES	17
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS	17A – 17O
TRAFFIC CONTROL PLANS NOTES AND DETOUR MAP	18, 18A, 8B
TRAFFIC CONTROL PLANS	19, 19A - 19F
SIGNING AND PAVEMENT MARKING PLANS	20, 20A - 20D, 20E
SIGN SCHEDULE SHEET	21
SOILS SHEETS	26, 26A – 26L
ROADWAY CROSS SECTIONS	23 - 25, 27- 46
SIDE ROAD CROSS SECTIONS	47 - 58
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1

THERE ARE NO PROJECT COMMITMENT SHEETS INCLUDED IN THIS SET OF PLANS.

SHEET NOS. 2B - 2B1 AND 22 NOT USED.

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
D01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD01-TS-2B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-3B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIALS WITH INDEPENDENT ROADWAYS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RD01-TS-5	10-15-02	DESIGN STANDARDS FREEWAYS WITH DEPRESSED MEDIANS
RD01-TS-5A	10-15-02	DESIGN STANDARDS FREEWAYS WITH INDEPENDENT ROADWAYS
DRAINAGE - CULVERTS AND ENDWALL		
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-4	12-01-14	STRAIGHT TYPE CONCRETE ENDWALL
D-PE-5	05-27-01	STANDARD WINGWALLS HORIZONTAL OVAL CONCRETE PIPES
D-PE-18A	01-06-15	18" CONCRRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRRETE ENDWALL CROSS DRAIN
D-PE-24A	01-06-15	24" CONCRRETE ENDWALL CROSS DRAIN
D-PE-24B		24" CONCRRETE ENDWALL CROSS DRAIN
D-PE-30A	01-06-15	30" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42A	06-14-13	42" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42B		42" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A	06-14-13	48" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48B		48" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
DRAINAGE-CATCH BASINS AND MANHOLES		
D-JBS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 JUNCTION BOX
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
ROADWAY AND PAVEMENT APPURTENANCES		
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-7	07-14-14	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
SAFETY APPURTENANCES AND FENCE		
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1	02-02-15	SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT ROADS OR PRIVATE DRIVES
S-GRC-1		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 21, 13 AND IN-LINE TERMINALS
TRAFFIC CONTROL APPURTENANCES		
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD

UNOFFICIAL SET

NOT FOR BIDDING

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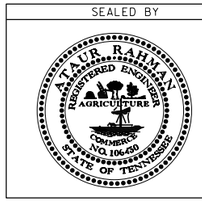

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	1B

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
TRAFFIC CONTROL APPURTENANCES (CON'T.)		
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS AND FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-9	11-01-11	MARKING DETAILS FOR RAMP INTERSECTIONS
T-M-16	12-01-14	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16A	07-24-14	ASPHALT CENER LINE RUMBLE STRIP
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-S-10	04-04-12	STANDARD MOUNTING DETAILS-FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN
T-S-17	07-19-13	STANDARD GROUNG MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-SG-9	12-04-13	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	05-01-14	MISCELLANEOUS SIGNAL DETAILS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMET FILTER BAGS
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-37	06-10-14	SEDIMENT TUBE
EL-W-2	05-27-01	STANDARD GRAVITY-TYPE RETAINING WALLS

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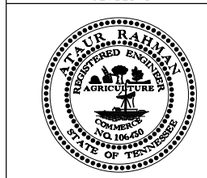

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	2A

PHASE A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	202-04.50	REMOVAL OF STRUCTURES (15X6 BOX CULV LT STA 312+65)	LS	1
8	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	10694
7	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	49516
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1850
	203-05	UNDERCUTTING	C.Y.	24330
	203-06	WATER	M.G.	150
	209-02.04	10" TEMPORARY SLOPE DRAIN	L.F.	50
	209-05	SEDIMENT REMOVAL	C.Y.	400
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	2534
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1530
	209-08.07	ROCK CHECK DAM	EACH	41
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	19
	209-09.01	SANDBAGS	BAG	42
	209-09.02	TEMPORARY SEDIMENT FILTER BAG (14'6" X 2'0" X 13'3")	BAG	4
	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	400
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	20465
6	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	269
4	303-10.03	MINERAL AGGREGATE (SIZE 68)	TON	49
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	5074
	307-01.08	ASPHALT CONC MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	3381
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	43
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	168
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	17
11	411-01.10	ACS MIX(PG64-22) GRADING D	TON	2277
9	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	4000
4	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	50
	607-03.30	18" PIPE CULVERT	L.F.	8
	607-05.30	24" PIPE CULVERT	L.F.	134
	607-06.30	30" PIPE CULVERT	L.F.	4
	607-08.30	42" PIPE CULVERT	L.F.	63
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	228
	610-07.03	18" PIPE DRAIN (BRIDGE DRAIN)	L.F.	20
	611-02.10	JUNCTION BOX, TYPE 1	EACH	1
	611-02.11	JUNCTION BOX, TYPE 2	EACH	1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	16
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1312
	611-07.03	STRUCTURAL STEEL (PIPE ENDWALLS)	LB.	442
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	500
	621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F.	200
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	108
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	888
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	9
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	2
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	2
	706-01	GUARDRAIL REMOVED	L.F.	300
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1460
	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	150
10	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	2160
	710-13.03	FILTER CLOTH	S.Y.	1806
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	200
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	50
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	6
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	20
	712-06	SIGNS (CONSTRUCTION)	S.F.	399
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	108

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
5	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	2
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
1	713-16.20	SIGNS (R1-1 w/ 1-P8 SUPPORT)	EACH	5
2	713-16.21	SIGNS (R2-1 w/ 1-P8 SUPPORT)	EACH	3
3	713-16.23	SIGNS (W3-1 w/ 1-P8 SUPPORT)	EACH	2
	713-16.24	SIGNS (OM4-1 w/ 1-P8 SUPPORT)	EACH	2
	713-16.25	SIGNS (W14-1 w/ 1-P8 SUPPORT)	EACH	1
	713-16.26	SIGNS (R3-8 (MODIFIED) w/ 1-P8 SUPPORT)	EACH	1
	713-16.27	SIGNS (R6-1R w/1-P8 SUPPORT)	EACH	1
	713-16.28	SIGNS (R6-3 w/ 1-P8 SUPPORT)	EACH	1
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	500
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	1
	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	100
	716-03.03	PLASTIC WORD PAVEMENT MARKING (STOP AHEAD)	EACH	1
	716-03.07	PLASTIC WORD PAVEMENT MARKING (STOP)	EACH	1
	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	1
	716-04.02	PLASTIC PAVEMENT MARKING(DOUBLE TURNING ARROW)	EACH	1
	716-04.16	PLASTIC PAVEMENT MARKING (NOISE STRIP)	L.F.	72
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	125
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	2
	717-01	MOBILIZATION	LS	1
	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1416
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	52528
	740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	6100
	801-01	SEEDING (WITH MULCH)	UNIT	3
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	3
	801-02	SEEDING (WITHOUT MULCH)	UNIT	3
	801-03	WATER (SEEDING & SODDING)	M.G.	7
	803-01	SODDING (NEW SOD)	S.Y.	7550
	806-02.03	PROJECT MOWING	CYCL	2

NOTES

1 ITEM NO. TO INCLUDE ONE R1-1 (36x36") W/ ONE P8 SUPPORT h=12'-6"

2 ITEM NO. TO INCLUDE ONE R2-1 (30x36") W/ ONE P8 SUPPORT h=12'-6"

3 ITEM NO. TO INCLUDE ONE W3-1 (36x36") W/ ONE P8 SUPPORT h=13'-6"

4 USED FOR GRAVITY WALL.

5 REMOVE SIGNS & SUPPORTS ON TWO(2) SIGNS OR AS DIRECTED BY THE ENGINEER.

6 INCLUDES 125 TONS FOR EROSION CONTROL AND 144 TONS FOR SINKHOLE REPAIR, (SEE GEOTECHNICAL NOTES AND DETAILS ON SHEET 26).

7 INCLUDES 1037 TONS FOR EMBANKMENT MATERIAL AT PROPOSED BRIDGE AND 48479 TONS FOR SOIL STABILZATION AND SINK HOLE REPAIR.

8 INCLUDES 430 C.Y. FOR EROSION CONTROL.

9 BLUE SPRINGS ROAD.

10 INCLUDES 788 TONS FOR EROSION CONTROL , 1372 TONS FOR OUT LET PROTECTION AND DITCHES.

11 INCLUDES 286 TONS FOR WORK ON S.R. 50 (STA. 192+50.00 TO 204+60.00 LT. & RT.) SEE SHEET 20E.

NOTE:

REGARDING USE OF MATERIALS IN SINK HOLE TREATMENT (NOTES 6 & 7), SEE NOTE ON SHEET 8.

UNOFFICIAL SET

NOT FOR BIDDING

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106-60
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

26-OCT-2015 13:44
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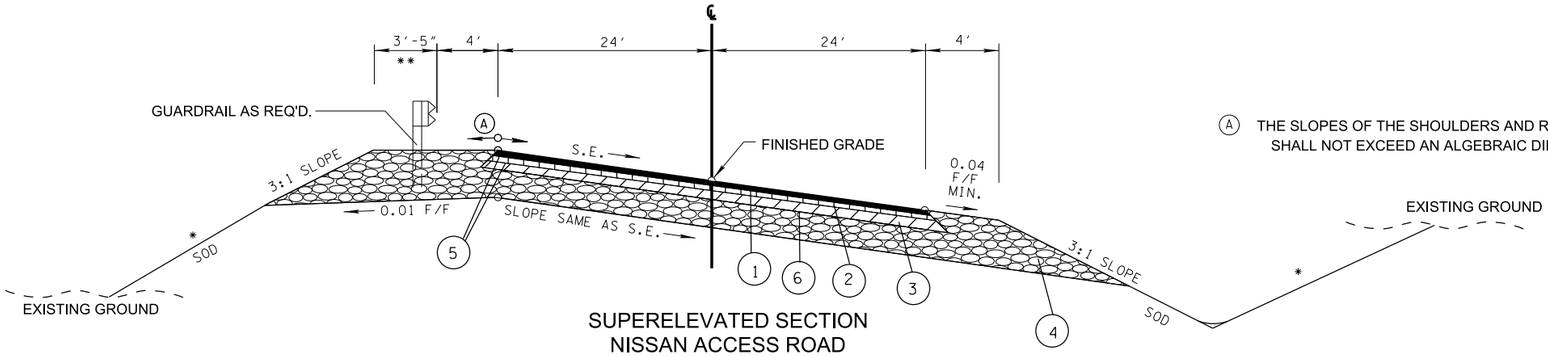
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	2
CONST.	2015	26952-3509-04	2C

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

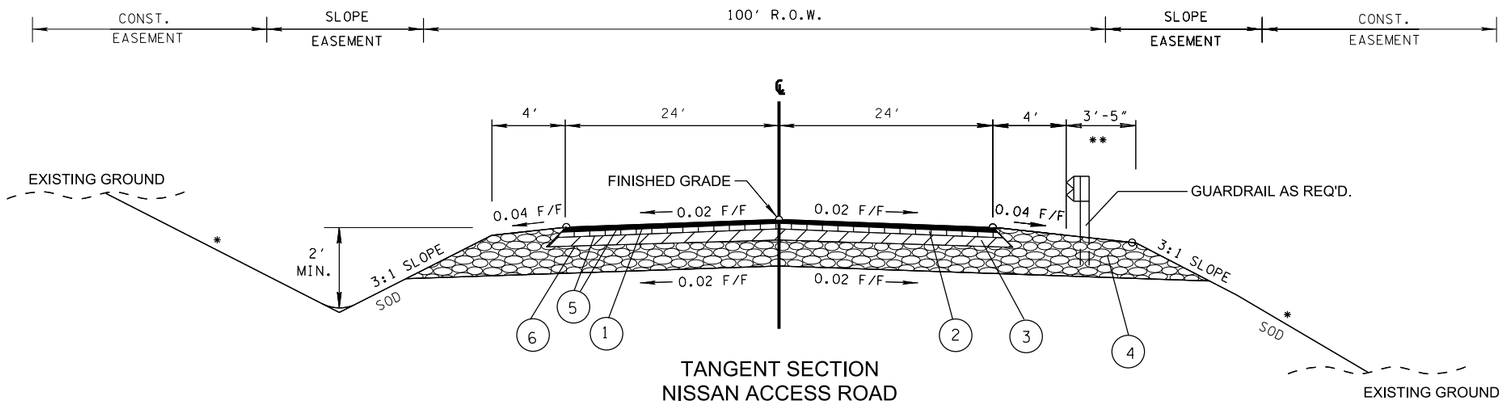


(A) THE SLOPES OF THE SHOULDERS AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.

SUPERELEVATED SECTION
NISSAN ACCESS ROAD

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

STA. 0+00.00 TO STA. 8+41.34
STA. 11+97.61 TO STA. 21+93.87
STA. 56+83.70 TO STA. 60+50.35
STA. 62+98.75 TO STA. 68+86.50
STA. 75+66.01 TO STA. 78+66.18



TANGENT SECTION
NISSAN ACCESS ROAD

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

STA. 8+41.34 TO STA. 11+97.61
STA. 21+93.87 TO STA. 38+50.00
STA. 38+50.00 TO STA. 56+83.70
STA. 60+50.35 TO STA. 62+98.75
STA. 68+86.50 TO STA. 75+66.01
STA. 78+66.18 TO STA. 79+69.13

SEE GUARDRAIL STANDARD TYPICAL GUARDRAIL PLACEMENT.

** SEE GUARDRAIL STANDARD DRAWINGS FOR TYPICAL GUARDRAIL PLACEMENT.

* FOR DETAILS NOT SHOWN SEE STD. DWG. RD01-S-11(CASE 2) RD01-S-11A OR SEE CROSS-SECTIONS

PROPOSED PAVEMENT SCHEDULE

(1) SURFACE @ 1.25" ± DEPTH (132.50 LBS./SQ. YD.) 411-01.10 ACS MIX (PG64-22) GRADING "D"	(4) MINERAL AGGREGATE BASE @ 10" ± THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D
(2) BASE @ 2" ± DEPTH (226 LBS./SQ. YD.) 307-01.08 ASPHALT CONCRETE (PG64-22)(BPMB-HM) GRADING B-M2	(5) TACK COAT 403-01 BITUMINOUS MATERAL FOR TACK COAT (T.C) @ 0.07 GAL./SQ. YD.)
(3) BASE @ 3" ± DEPTH (345 LBS./SQ. YD.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING A	(6) PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME (PC) 0.3-0.35 GAL./SQ. YD. 402-02 AGGREGATE FOR COVER MATERIAL (PC) 8-12 LB./SQ. YD.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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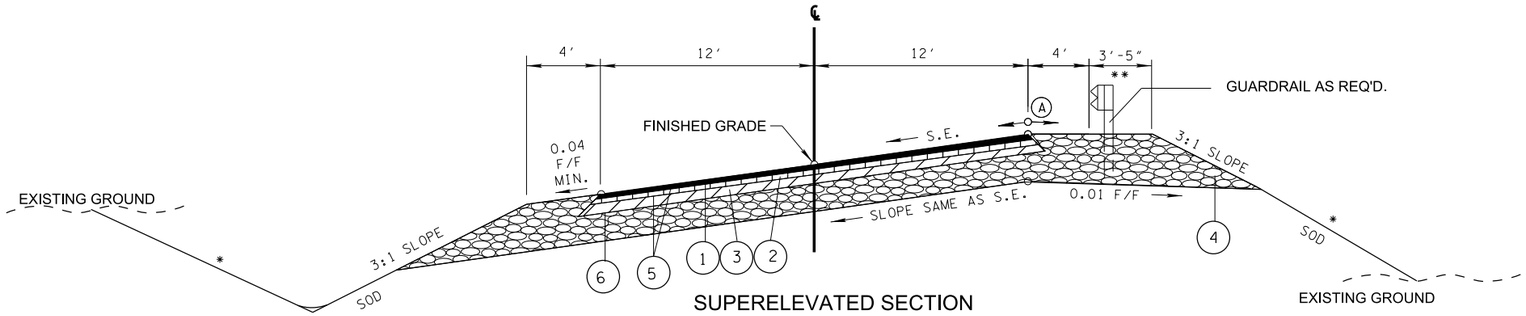
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	2A
CONST.	2015	26952-3509-04	2D

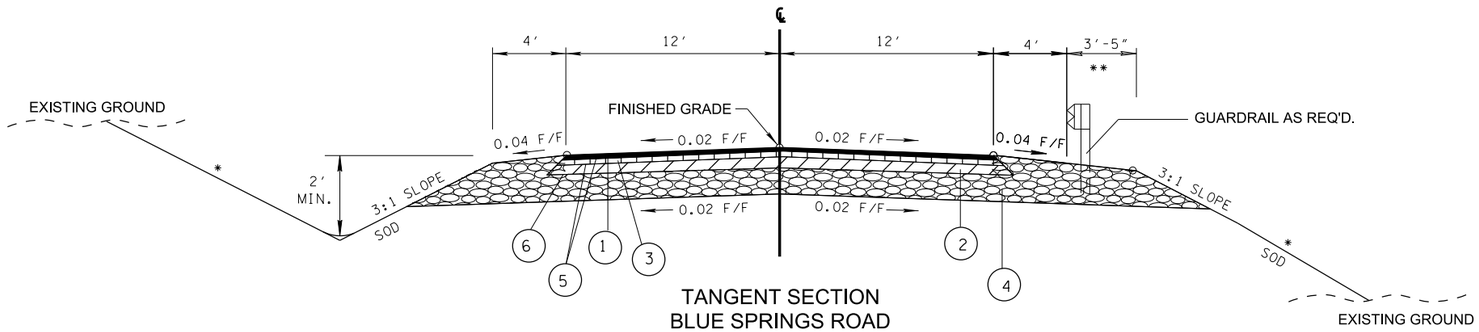
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



SUPERELEVATED SECTION
BLUE SPRINGS ROAD
(BASED ON STD. DWG. RD01-TS-1)
STA. 303+21.72 TO STA. 305.64
STA. 309+13.93 TO STA. 314+47.69

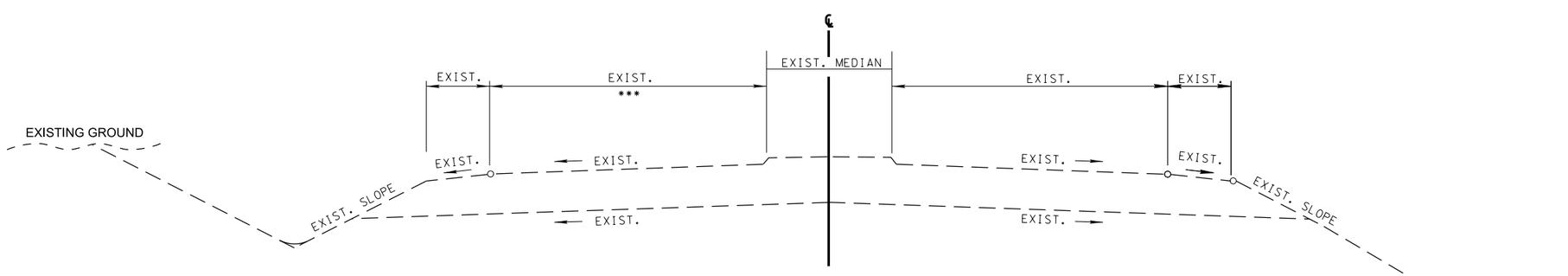
** SEE GUARDRAIL STANDARD DRAWINGS FOR TYPICAL GUARDRAIL PLACEMENT.

* FOR DETAILS NOT SHOWN SEE STD. DWG. RD01-S-11(CASE 2) RD01-S-11A OR SEE CROSS-SECTIONS



TANGENT SECTION
BLUE SPRINGS ROAD
(BASED ON STD. DWG. RD01-TS-1)
STA. 300+00.00 TO STA. 303+21.72
STA. 305+02.64 TO STA. 309+13.93
STA. 314+47.69 TO STA. 319+00.00

SEE SHEET 2C FOR PROPOSED PAVEMENT SCHEDULE



TYPICAL SECTION
POWERTRAIN DRIVE
(BASED ON STD. DWG. RD01-TS-2A)
STA. 194+00.00 TO STA. 208+00.00

UNOFFICIAL SET
NOT FOR BIDDING

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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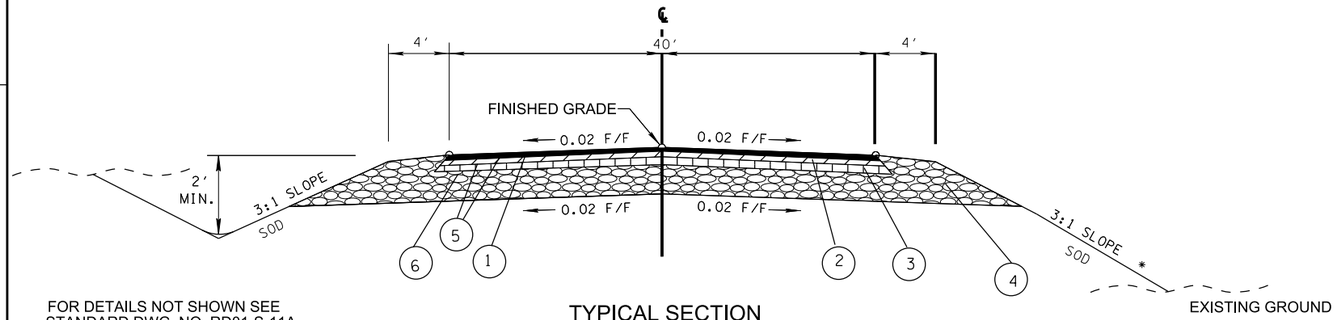
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	2B
CONST.	2015	26952-3509-04	2E

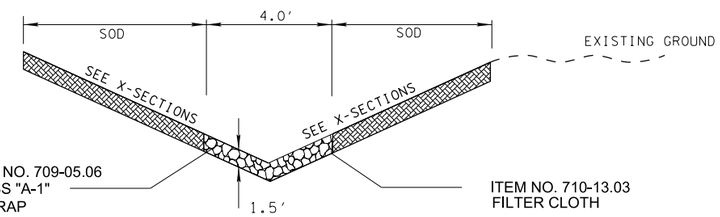
REV. 09-18-2015:DELETED TRUCK ENTRANCE.



FOR DETAILS NOT SHOWN SEE STANDARD DWG. NO. RD01-S-11A

TYPICAL SECTION

EMPLOYEE ENTRANCE
LT. STA. 25+30.00
LT. STA. 34+35.69
LT. STA. 47+00.00
LT. STA. 59+00.00



FOR DETAILS NOT SHOWN SEE STANDARD DWG. NO. RD01-S-11A

ITEM NO. 709-05.06
CLASS "A-1"
RIP-RAP

ITEM NO. 710-13.03
FILTER CLOTH

PROPOSED "V" BOTTOM DITCH
NISSAN ACCESS ROAD

LT. STA. 04+00.00 TO STA. 26+00.00
LT. STA. 27+50.00 TO STA. 32+00.00
LT. STA. 33+50.00 TO STA. 38+50.00
RT. STA. 00+25.00 TO STA. 00+75.00
RT. STA. 06+00.00 TO STA. 08+00.00
RT. STA. 16+50.00 TO STA. 17+50.00
RT. STA. 19+50.00 TO STA. 26+50.00
RT. STA. 27+50.00 TO STA. 32+50.00
RT. STA. 36+00.00 TO STA. 38+50.00
LT. STA. 43+50.00 TO STA. 44+00.00
LT. STA. 46+00.00 TO STA. 47+00.00
LT. STA. 59+25.00 TO STA. 59+75.00
LT. STA. 60+50.00 TO STA. 61+50.00
LT. STA. 63+00.00 TO STA. 63+50.00
LT. STA. 66+50.00 TO STA. 74+00.00
LT. STA. 77+50.00 TO STA. 78+00.00
RT. STA. 38+50.00 TO STA. 41+50.00
RT. STA. 48+50.00 TO STA. 49+50.00
RT. STA. 70+00.00 TO STA. 79+25.00

BLUE SPRINGS ROAD

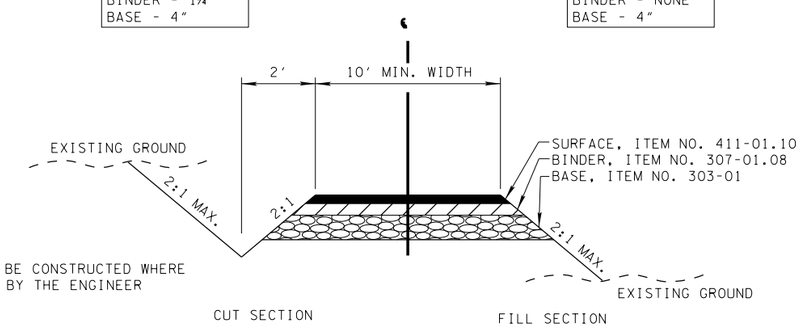
LT. STA. 301+50.00 TO STA. 302+50.00
LT. STA. 304+50.00 TO STA. 308+50.00
LT. STA. 312+25.00 TO STA. 312+75.00
LT. STA. 315+00.00 TO STA. 316+00.00
LT. STA. 319+00.00 TO STA. 319+50.00
RT. STA. 302+50.00 TO STA. 312+00.00
RT. STA. 314+25.00 TO STA. 314+75.00
RT. STA. 318+75.00 TO STA. 319+75.00

BUSINESS

SURFACE - 1¼"
BINDER - 1¾"
BASE - 4"

FIELD OR RESIDENTIAL

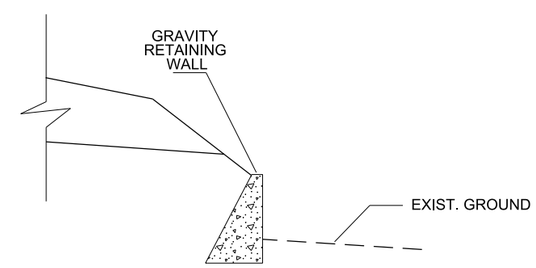
SURFACE - 1½"
BINDER - NONE
BASE - 4"



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY



PROPOSED GRAVITY RETAINING WALL

RT. STA. 317+00.00 TO STA. 318+00.00
SEE X-SECTIONS (BLUE SPRINGS ROAD)
(SEE STD. DWG. EL-W-2)

UNOFFICIAL SET

NOT FOR BIDDING

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	2F

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(2) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET , SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

(3) ITEM NO. 801-01, SEEDING (WITHOUT MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(2) THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(3) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

(4) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR CULVERTS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

(3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(5) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTILITIES

(1) SEE SHEET NO. 3B

MISCELLANEOUS

(1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

RIGHT - OF – WAY

(1) SEE SHEET NO. 3B

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING IF 4" SPRAY THERMOPLASTIC (60 mil) IS USED

(1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-13.01, SPRAY THERMO PVMT MRKNG (60 Mil) (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR PERMANENT MARKINGS.

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(3) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

GRADED SOLID ROCK

(1) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(2) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(1) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(2) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(3) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

(4) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	2G

GENERAL NOTES

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL (CON'T.)

SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

(3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(5) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(6) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

SEDIMENT CONTROL

(7) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(9) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(10) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(11) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(12) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(13) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(14) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

STREAM/WETLAND

(15) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(16) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(17) INSTREAM EPSC DEVICES REQUIRE THE ENVIRONMENTAL DIVISION'S PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN TDEC, USACE, AND TVA PERMITS.

(18) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401, SECTION 404 PERMIT(S) AND/OR TVA26(A), IF APPLICABLE. ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(19) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

(20) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(21) HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT MUST BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED.

(22) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

SPECIES

(23) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA. THE SWPPP SHALL BE MODIFIED TO INCLUDE EPSC MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

INSPECTION, MAINTENANCE, REPAIR

(24) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

(25) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(26) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

(27) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(28) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(29) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(30) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(31) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

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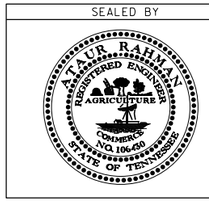

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	2H

GENERAL NOTES (CON'T.)

MATERIALS

(32) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

SWPPP, PERMITS, PLANS, RECORDS

(33) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(34) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, ROADWAY DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(35) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(36) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BREIF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

(37) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(38) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(39) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(40) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

(41) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(42) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

(43) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 24, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

ECOLOGY

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIES.

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED BRIDGE WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS WHICH MUST BE FOLLOWED.

(3) ALL BRIDGE PROJECTS WITH THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	21

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS									
	411-01.10 TON	307-01.01 TON	307-01.08 TON	303-01 TON	402-01 TON	402-02 TON	403-01 TON			
NISSAN ACCESS ROAD	1281	3335	2185	15198	30	116	12			
BLUE SPRINGS ROAD	568	1478	968	4777	13	52	3			
EMPLOYEE ENTRANCE	100	261	171	341						
PVT. DR./ BUS. ENTRANCE	42		57	149						
(1) S.R. 50	286						2			
TOTALS	2277	5074	3381	20465	43	168	17			

(1) STA. 192+50.00 TO 204+60.00 (LT. & RT.)

ESTIMATED GRADING QUANTITIES

STATION FROM	STATION TO	ROAD AND DRAINAGE EXCAVATION (UNCL.) COMMON C.Y.	ROAD AND DRAINAGE EXCAVATION (UNCL.) ROCK C.Y.	BORROW COMMON C.Y.	BORROW ROCK C.Y.	EMB. C.Y.	EXCESS C.Y.	TOPSOIL C.Y.	UNDERCUT C.Y.	REMARKS
00+00.00	38+50.00	10264	0	0	49516	2552	2136	4680	24330	NISSAN ACCESS ROAD
300+31.30	319+57.18	0	0	513	0	446	0	0	0	BLUE SPRINGS ROAD
TOTALS (1)		10264	0	513	49516	2998	2136	4680	24330	

(1) SEE SHEET 4B FOR EARTHWORK BALANCE COMPUTATIONS.

GUARDRAIL QUANTITIES

STATION FROM	STATION TO	LOCATION	LT.	RT.	GUARDRAIL REMOVED 706-01 (L.F.)	SINGLE GUARDRAIL TYPE 2 705-02.02 (L.F.)	GUARDRAIL ANCHOR (EACH) TYPE 21 705-04.04	GUARDRAIL ANCHOR (EACH) TYPE IN-LINE 705-04.05	GUARDRAIL ANCHOR (EACH)	GUARDRAIL AT BRIDGE ENDS 705-01.01 (L.F.)	REMARKS
3+96.00±	4+29.00±	MAINLINE	X				1			27	
3+96.00±	4+29.00±	MAINLINE		X			1			27	
304+00.00±	1+42.00±	MAINLINE	X			138	1	1		27	
306+15.00±	0+98.00±	MAINLINE		X		75	1	1		27	
315+90±	319+00±	B.S.R.	X		300	300	1				
311+90±	314+10±	B.S.R.		X		225	2				
316+70±	318+20±	B.S.R.		X		150	2				
TOTALS					300	888	9	2		108	

PIPE CULVERT AND END TREATMENT

LOCATION	STATION	PROP. CONCRETE PIPE CULVERT DIA. (in) 18	24	30	42	48	LGTH. (FT)	DRAINAGE AREA ACRES	SKEW	END TREATMENT (LT) TYPE	CLASS "A" CONC. (C.Y.)	REINF. STEEL (LBS.)	STRUCT. STEEL (LBS.)	END TREATMENT (RT) TYPE	CLASS "A" CONC. (C.Y.)	REINF. STEEL (LBS.)	STRUCT. STEEL (LBS.)	DRAWING NUMBERS
BLUE SPRINGS RD.	311+04.99	7.20						N/A	82°					"U"	0.87	79		D-PE-18A & D-PE-18B, D-JBS-1
BLUE SPRINGS RD.	318+41.02			3.51				N/A	88°					"U"	1.84	174	114	D-PE-30A & D-PE-30B, D-JBS-2
NISSAN ACCESS RD.	20+36.10		71.00					1.76	90°	"U"	1.61	153		"U"	1.28	124		D-PE-24A & D-PE-24B
NISSAN ACCESS RD.	27+10.34				62.51			20.11	75°	"U"	3.85	327	180	"U"	3.03	263	148	D-PE-42A & D-PE-42B
NISSAN ACCESS RD.	37+08.78		62.57					0.67	90°	"U"	1.28	124		"STR"	1.86	68		D-PE-24A & D-PE-24B, D-PE-4
	TOTALS	7.20	133.57	3.51	62.51						6.74	604	180		8.88	708	262	

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TABULATED QUANTITIES

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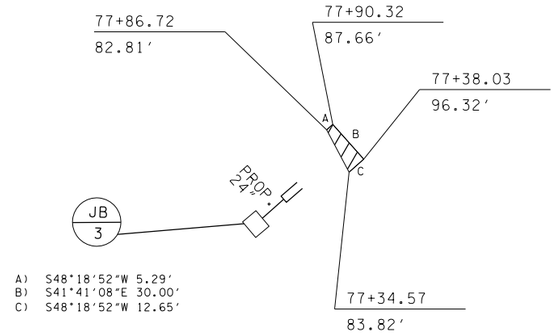
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

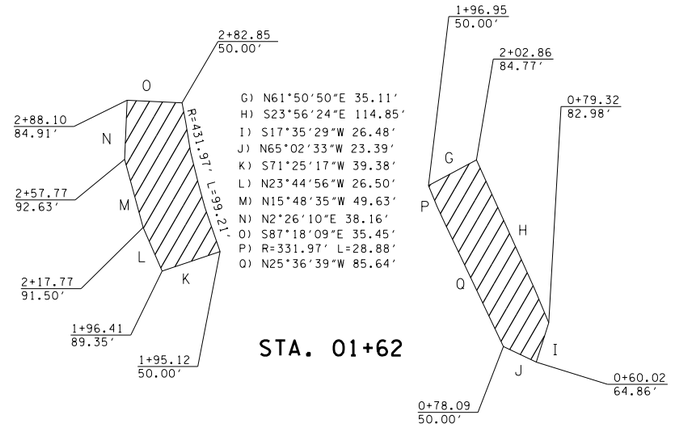
PHASE "B"



A) S48°18'52"W 5.29'
B) S41°41'08"E 30.00'
C) S48°18'52"W 12.65'

STA. 77+37.42

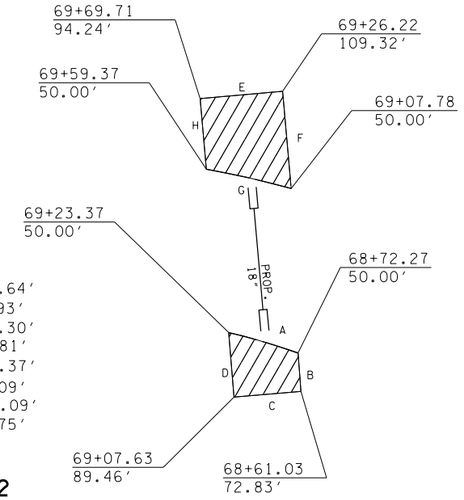
DENOTES PERMANENT DRAINAGE EASEMENT



G) N61°50'50"E 35.11'
H) S23°56'24"E 114.85'
I) S17°35'29"W 26.48'
J) N65°02'33"W 23.39'
K) S71°25'17"W 39.38'
L) N23°44'56"W 26.50'
M) N15°48'35"W 49.63'
N) N2°26'10"E 38.16'
O) S87°18'09"E 35.45'
P) R=331.97' L=28.88'
Q) N25°36'39"W 85.64'

STA. 01+62

PHASE "B"



A) R=522.96' L=46.64'
B) S4°13'42"E 24.93'
C) S85°09'11"W 43.30'
D) N4°41'49"W 41.81'
E) N84°57'33"E 53.37'
F) S5°02'27"E 61.09'
G) R=622.96' L=56.09'
H) S5°02'27"E 45.75'

STA. 69+15.82

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	2D
CONST.	2015	26952-3509-04	2J

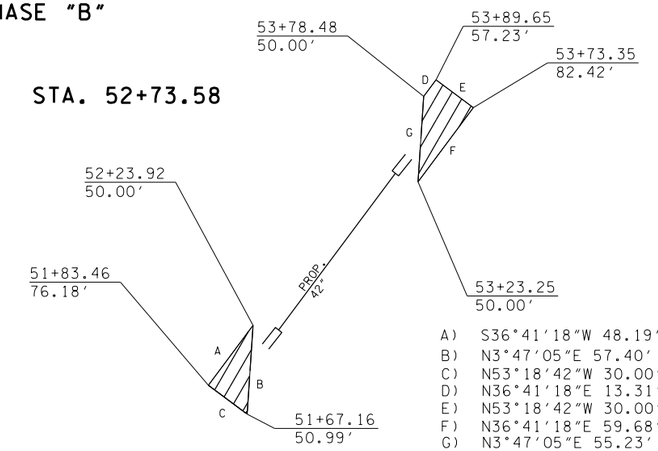
REV. 02-23-2015:MODIFIED PDE RT. STA. 20+36.10.

REV. 04-17-2015:MODIFIED PDE RT. STA. 77+37.42.

REV. 06-19-2015: CORRECTED PDE DETAILS STA. 01+62, 20+36.10, 37+08.78 AND 52+73.58.

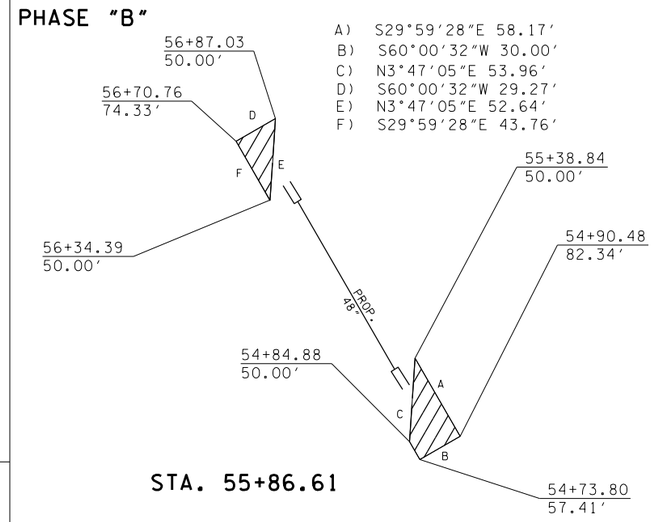
PHASE "B"

STA. 52+73.58



A) S36°41'18"W 48.19'
B) N3°47'05"E 57.40'
C) N53°18'42"W 30.00'
D) N36°41'18"E 13.31'
E) N53°18'42"W 30.00'
F) N36°41'18"E 59.68'
G) N3°47'05"E 55.23'

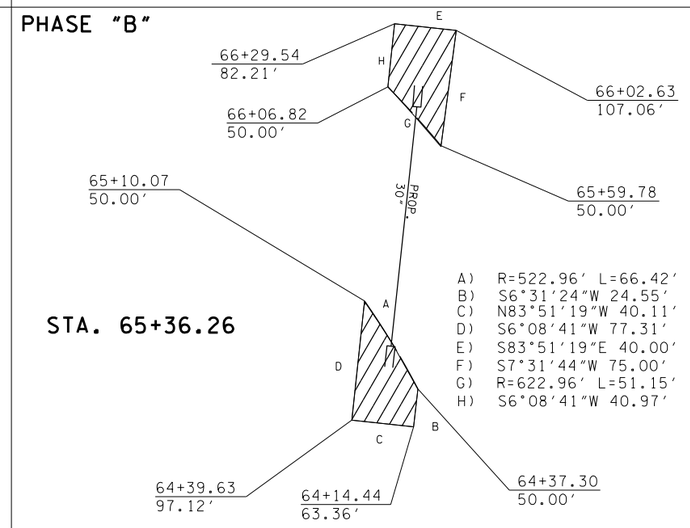
PHASE "B"



A) S29°59'28"E 58.17'
B) S60°00'32"W 30.00'
C) N3°47'05"E 53.96'
D) S60°00'32"W 29.27'
E) N3°47'05"E 52.64'
F) S29°59'28"E 43.76'

STA. 55+86.61

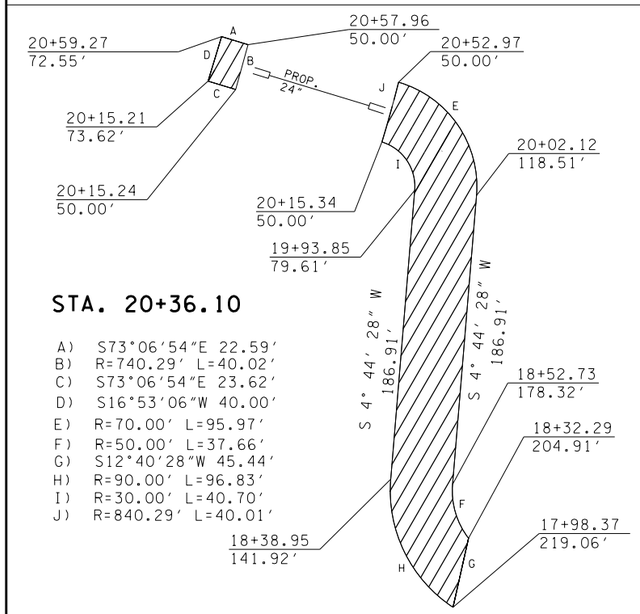
PHASE "B"



A) R=522.96' L=66.42'
B) S6°31'24"W 24.55'
C) N83°51'19"W 40.11'
D) S6°08'41"W 77.31'
E) S83°51'19"E 40.00'
F) S7°31'44"W 75.00'
G) R=622.96' L=51.15'
H) S6°08'41"W 40.97'

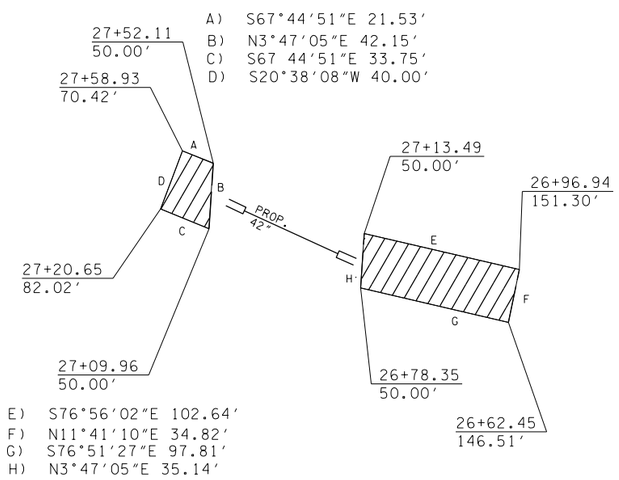
STA. 65+36.26

NOTE:
PHASE "B" IS FUTURE CONSTRUCTION.



STA. 20+36.10

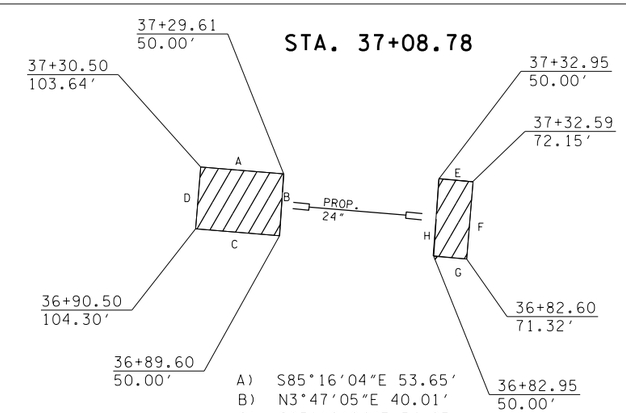
A) S73°06'54"E 22.59'
B) R=740.29' L=40.02'
C) S73°06'54"E 23.62'
D) S16°53'06"W 40.00'
E) R=70.00' L=95.97'
F) R=50.00' L=37.66'
G) S12°40'28"W 45.44'
H) R=90.00' L=96.83'
I) R=30.00' L=40.70'
J) R=840.29' L=40.01'



A) S67°44'51"E 21.53'
B) N3°47'05"E 42.15'
C) S67 44'51"E 33.75'
D) S20°38'08"W 40.00'
E) S76°56'02"E 102.64'
F) N11°41'10"E 34.82'
G) S76°51'27"E 97.81'
H) N3°47'05"E 35.14'

STA. 27+10.34

STA. 37+08.78



A) S85°16'04"E 53.65'
B) N3°47'05"E 40.01'
C) S85°16'04"E 54.23'
D) S4°43'56"W 40.00'
E) S85°16'04"E 21.88'
F) S4°43'56"W 50.00'
G) S85°16'04"E 21.33'
H) N3°47'05"E 50.01'

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE EASEMENT DETAILS

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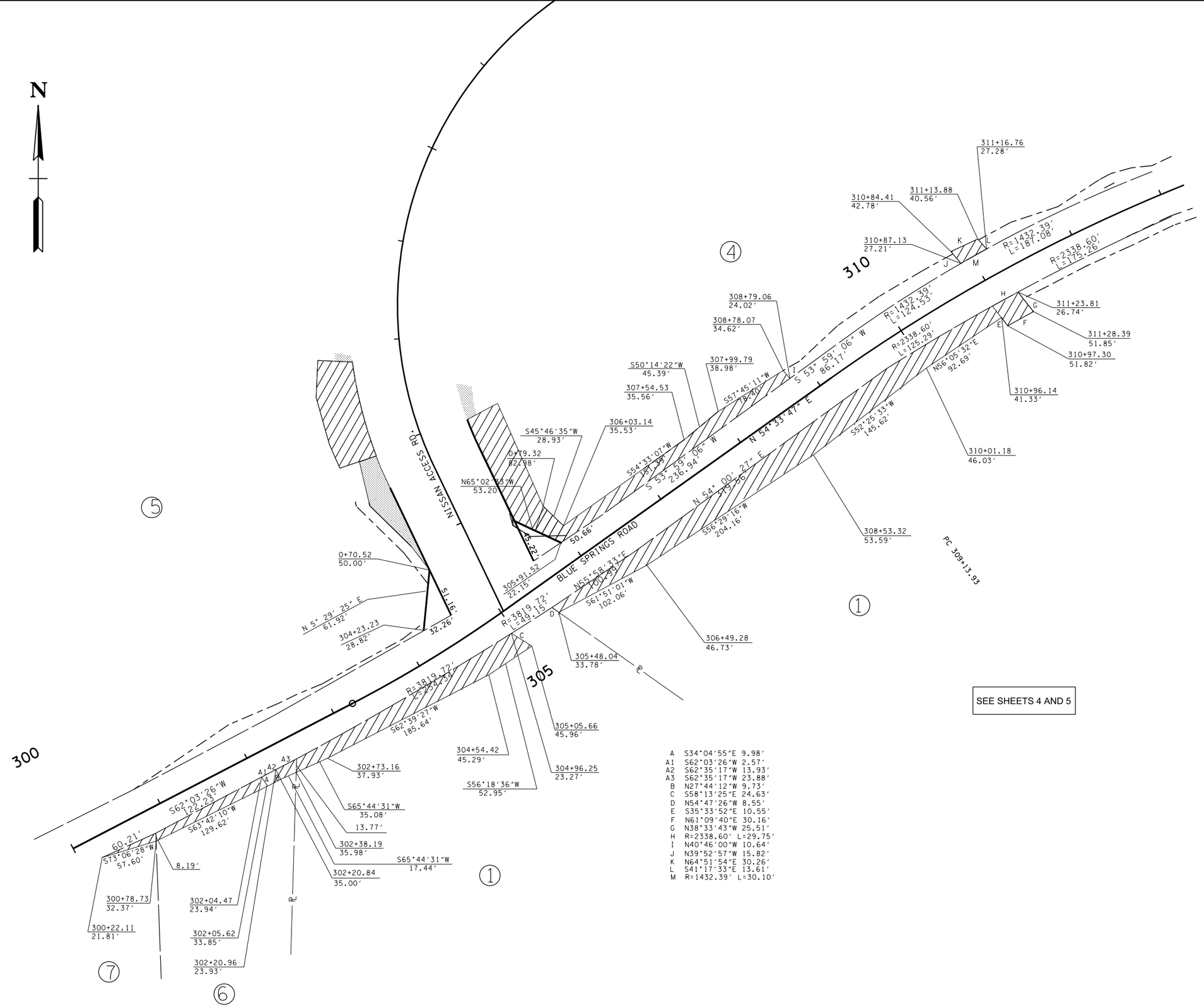
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	2E
CONST.	2015	26952-3509-04	2K

REV. 06-19-2015: ADDED THIS SHEET TO PLANS.



A	S34°04'55"E 9.98'
A1	S62°03'26"W 2.57'
A2	S62°35'17"W 13.93'
A3	S62°35'17"W 23.88'
B	N27°44'12"W 9.73'
C	S58°13'25"E 24.63'
D	N54°47'26"W 8.55'
E	S35°33'52"E 10.55'
F	N61°09'40"E 30.16'
G	N38°33'43"W 25.51'
H	R=2338.60' L=29.75'
I	N40°46'00"W 10.64'
J	N39°52'57"W 15.82'
K	N64°51'54"E 30.26'
L	S41°17'33"E 13.61'
M	R=1432.39' L=30.10'

UNOFFICIAL SET

NOT FOR BIDDING

ATUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE EASEMENT DETAILS

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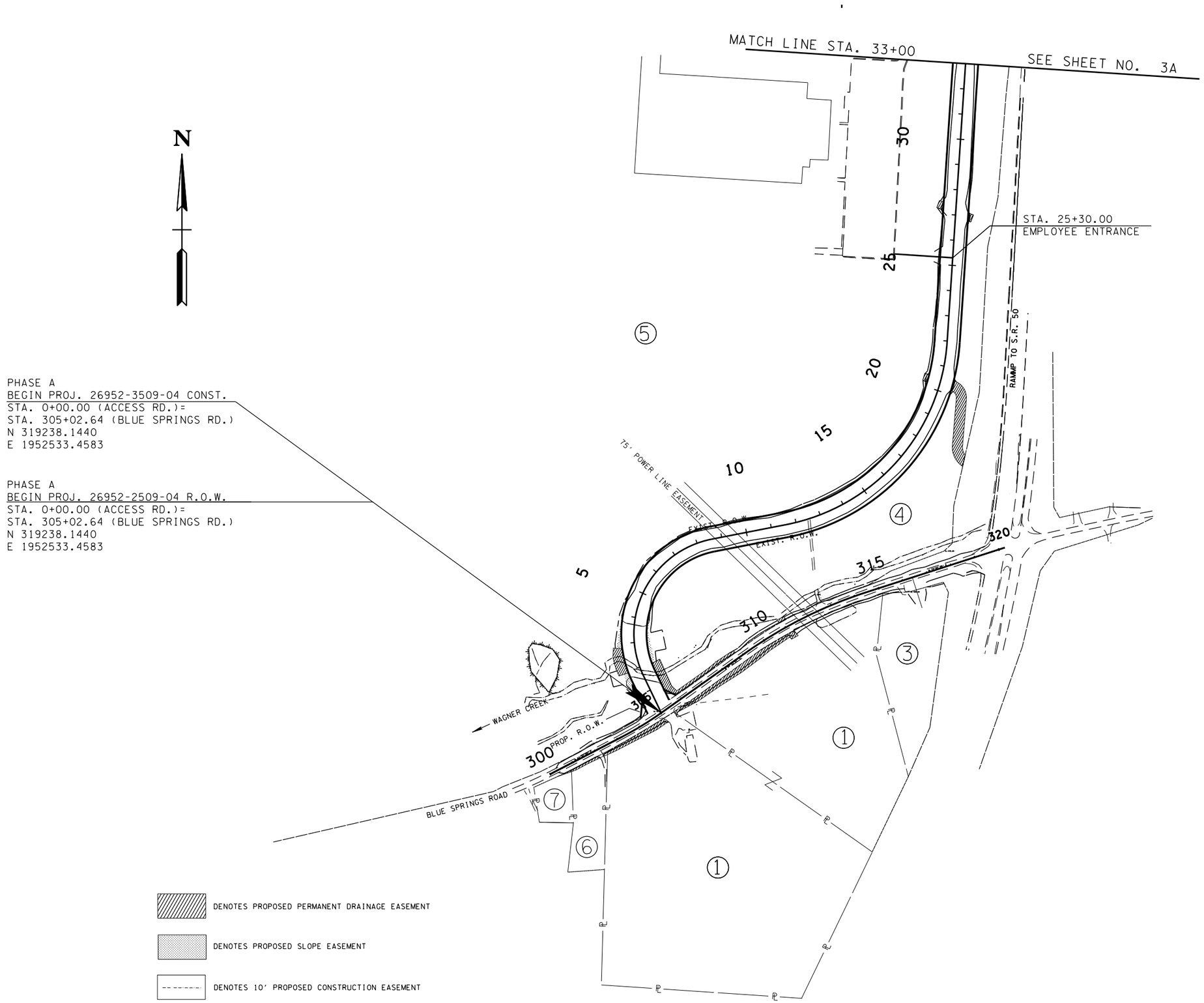
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	3
CONST.	2015	26952-3509-04	3

REV. 02-02-2015: COMBINED TRACT NO. 2 INTO TRACT NO. 1 AND ADDED 'Z" BAR. ADDED TRACT NO. 7.

REV. 02-23-2015: REMOVED "Z" BAR BETWEEN TRACT NO. 1 AND TRACT NO. 3. ADDED PERMANENT DRAINAGE EASEMENT PATTERN ON TRACT NOS. 6 AND 7. MODIFIED PDE ON TRACT NO. 4.

REV. 04-17-2015: DISPLAYED CONSTRUCTION EASEMENT FOR TEMPORARY SEDIMENT FILTER BAG ON TRACT NOS. 4 AND 5.

REV. 09-18-2015: ADDED PROJECT PHASING LABEL.



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ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106420
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 00+00 TO STA. 33+00

SCALE: 1"=200'

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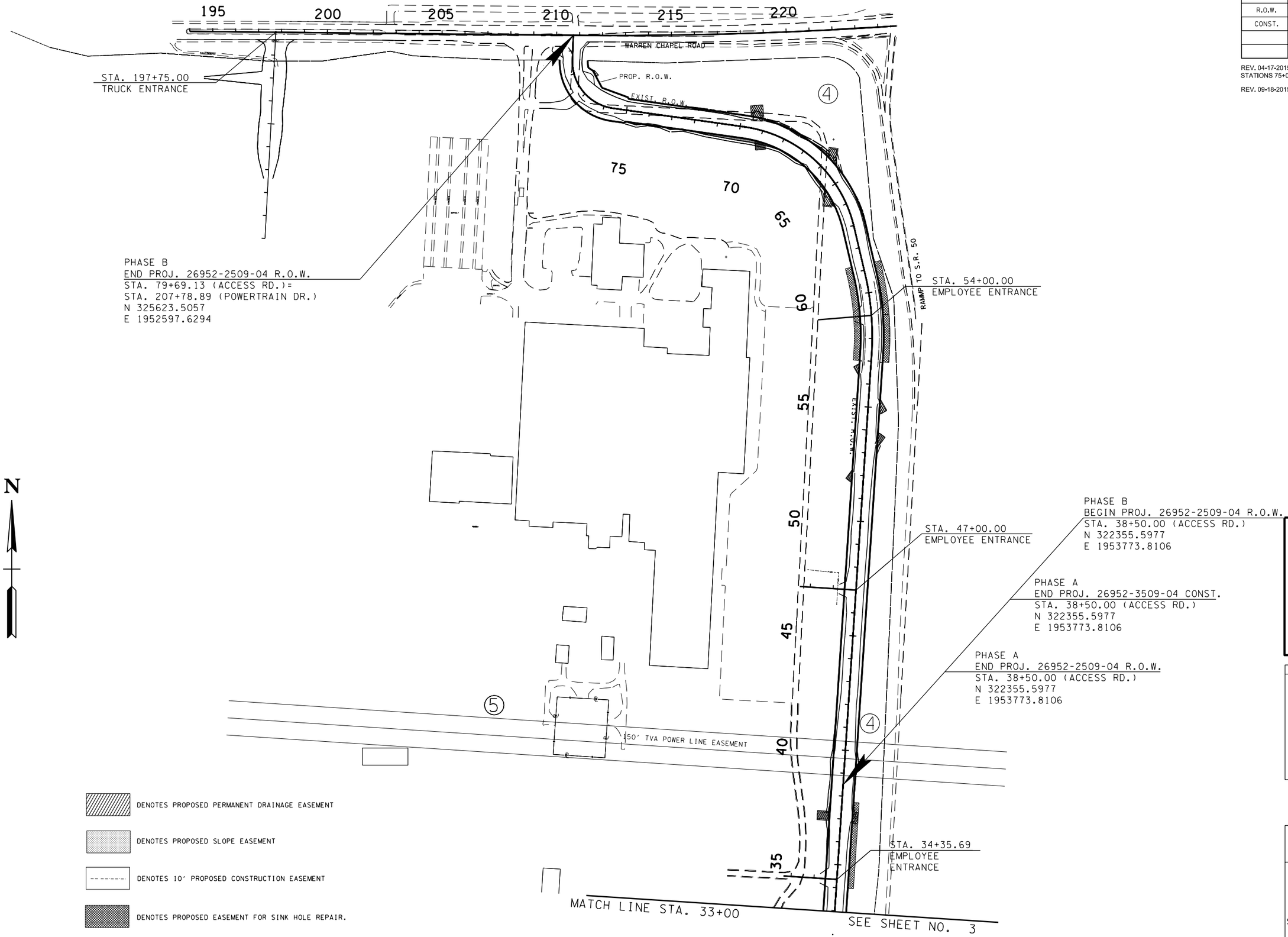
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	3A
CONST.	2015	26952-3509-04	3A

REV. 04-17-2015: REVISED PROP. R.O.W. LINE BETWEEN STATIONS 75+00 TO STA 79+60 ON TRACT NOS. 4 AND 5.

REV. 09-18-2015: ADDED PROJECT PHASING LABEL.



UNOFFICIAL SET

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SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 33+00 TO STA. 79+64

SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	3B
CONST.	2015	26952-3509-04	3B

REV. 02-02-2015: COMBINED TRACT NO. 2 INTO TRACT NO. 1. LINED-THRU TRACT NO. 2. ADDED OWNERS NAME, TAX MAP NO., PARCEL NO., DEED BOOK, PAGE NO. AND TOTAL AREA ON TRACT NO. 6 ADDED TRACT NO. 7. UPDATED R.O.W. AQUISITION TABLE ACCORDINGLY.

REV. 02-23-2015: DELETED CONST. EASEMENT AND MODIFIED PERMANENT DRAINAGE EASEMENT ON TRACT NO. 6. MODIFIED PERMANENT DRAINAGE EASEMENT ON TRACT NO. 4. AND UPDATED R.O.W. AQUISITION TABLE ACCORDINGLY.

REV. 04-17-2015: REVISED AREA ACQUIRED, AREA REMAINING AND CONSTRUCTION EASEMENT ON TRACT TRACT NO. 5. REVISED AREA AQUIRED, AREA REMAINING SLOPE, DRAINAGE , AND CONSTRUCTION EASEMENTS ON TRACT NO. 4. UPDATED R.O.W. ACQUISITION TABLE ACCORDINGLY.

REV. 06-19-2015: CORRECTED PERMANENT DRAINAGE EASEMENT ON TRACT NO. 7.

UTILITY OWNERS

GAS : ELK RIVER PUBLIC UTILITY DISTRICT
MR. EDDIE MOFFITT
217 SOUTH JACKSON STREET
TULLAHOMA, TN 37388
PHONE(931) 455-9311
EMOFFITT@ERPUD.COM

CATV : COMCAST (XFINITY)
MR. DOAK SHARROCK
2501 MCGAVOCK PIKE STE 1200
NASHVILLE, TN 37214-1239
PHONE(615) 405-5601
DOAK SHARROCK@CABLE.COMCAST.COM

ELECTRIC : DUCK RIVER ELECTRIC MEMBERSHIP CORP.
MR. BLAKE BUTLER
PO BOX 89
SHELBYVILLE, TN 37160
PHONE(931) 684-4621

TELEPHONE : BELLSOUTH DBA AT&T
MR. KENNETH LEE KORNEGAY
116 SOUTH CANNON AVENUE
MURFREESBORO, TN 37129
PHONE(615) 848-2082
KK4096@ATT.COM

WATER : DECHERD, CITY OF
MAYOR ROBIN SMITH
PO BOX 488
DECHERD, TN 37324
1301 WEST MAIN DECHERD,TN 37324
PHONE(931) 967-5181

RIGHT-OF-WAY NOTES

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THEREFROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(8) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED NEED FOR THAT PERMIT.

UTILITY NOTES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

NOTE:
ACQUISITION TABLE INCLUDES TRACTS OF PHASE "A" AND PHASE "B".

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (AC.)			AREA TO BE AQUIRED (AC.)			AREA REMAINING (AC.)		EASEMENT (AC.)		
		TAX MAP NO.	PARCEL NO.	DEED BOOK	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
1	DAN BARRY ETUX ARLENE BARRY	056	050.00	383	1		30.85	30.85						0.389		0.077
~~2~~	~~DAN BARRY ETUX ARLENE BARRY~~	~~056~~	~~051.04~~	~~383~~	~~1~~		~~11.13~~	~~11.13~~						~~0.276~~		~~0.077~~
3	DAN BARRY ETUX ARLENE BARRY	056	051.04	383	1		3.10	3.10								149 S.F.
4	FRANKLIN INDUSTRIAL DEVELOPMENT BOARD	056	039.00	241	33		30.01	30.01		9.129	9.129		20.881	① 0.564	0.086	③ 0.485
5	FRANKLIN INDUSTRIAL DEVELOPMENT BOARD	056	039.00	241	33	773.66		773.66	9.091		9.091	764.569		② 0.296	0.225	④ 0.893
6	EDUARDO SACALXOT ETUX MARIA E. SACALXOT	056	048.01	315	549		1.26	1.26						0.028		~~0.024~~
7	DEWEY W. HOOD	056	048.02	350	208		0.63	0.63						228 S.F.		

DISTURBED AREA	
IN BETWEEN SLOPE LINES	20.136 (AC)
15 FEET WIDE STRIP (OUTSIDE S. LINES)	7.263 (AC)
TOTAL DISTURBED AREA	27.399 (AC)

① INCLUDES 0.098 AC. FOR WINGWALLS.
② INCLUDES 0.099 AC. FOR WINGWALLS.
③ DOES NOT INCLUDE 0.492 AC. FOR SINK HOLE REPAIR. INCLUDES 0.078 AC. FOR TEMPORARY SEDIMENT FILTER BAG.
④ DOES NOT INCLUDE 0.261 AC. FOR SINK HOLE REPAIR. INCLUDES 0.080 AC. FOR TEMPORARY SEDIMENT FILTER BAG.

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SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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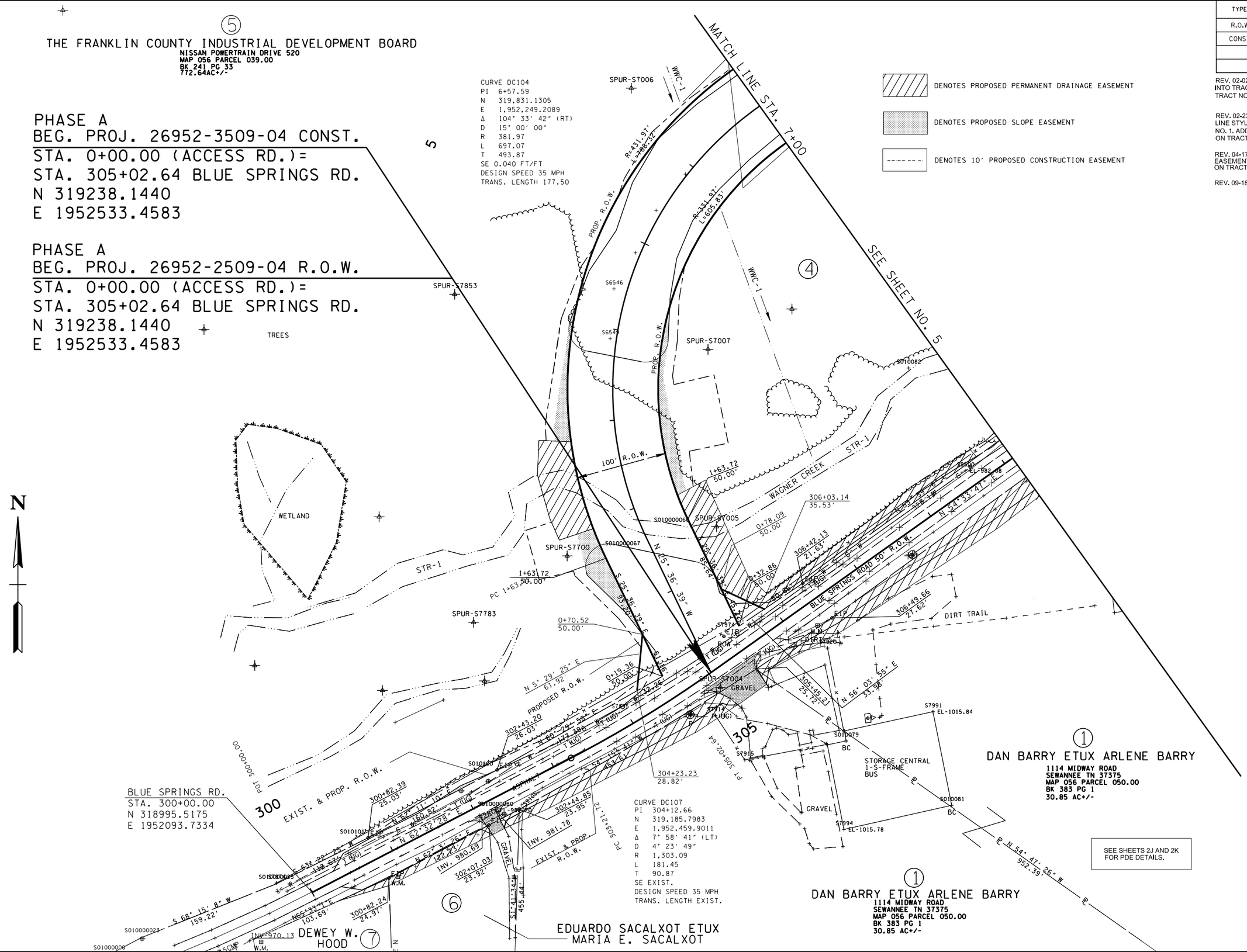
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	4
CONST.	2015	26952-3509-04	4

REV. 02-02-2015: COMBINED TRACT NO. 2. INTO TRACT NO. 1. ADDED OWNERS NAME ON TRACT NO. 6. ADDED TRACT NO. 7.

REV. 02-23-2015: CORRECTED EXIST. R.O.W. LINE STYLE AND LEADER LINE ON TRACT NO. 1. ADDED DRAINAGE EASEMENT PATTERN ON TRACT NOS. 6 AND 7.

REV. 04-17-2015: DISPLAYED CONSTRUCTION EASEMENT FOR TEMPORARY SEDIMENT FILTER BAG ON TRACT NOS. 4 AND 5.

REV. 09-18-2015: ADDED PROJECT PHASING LABEL.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 0+00 TO STA. 7+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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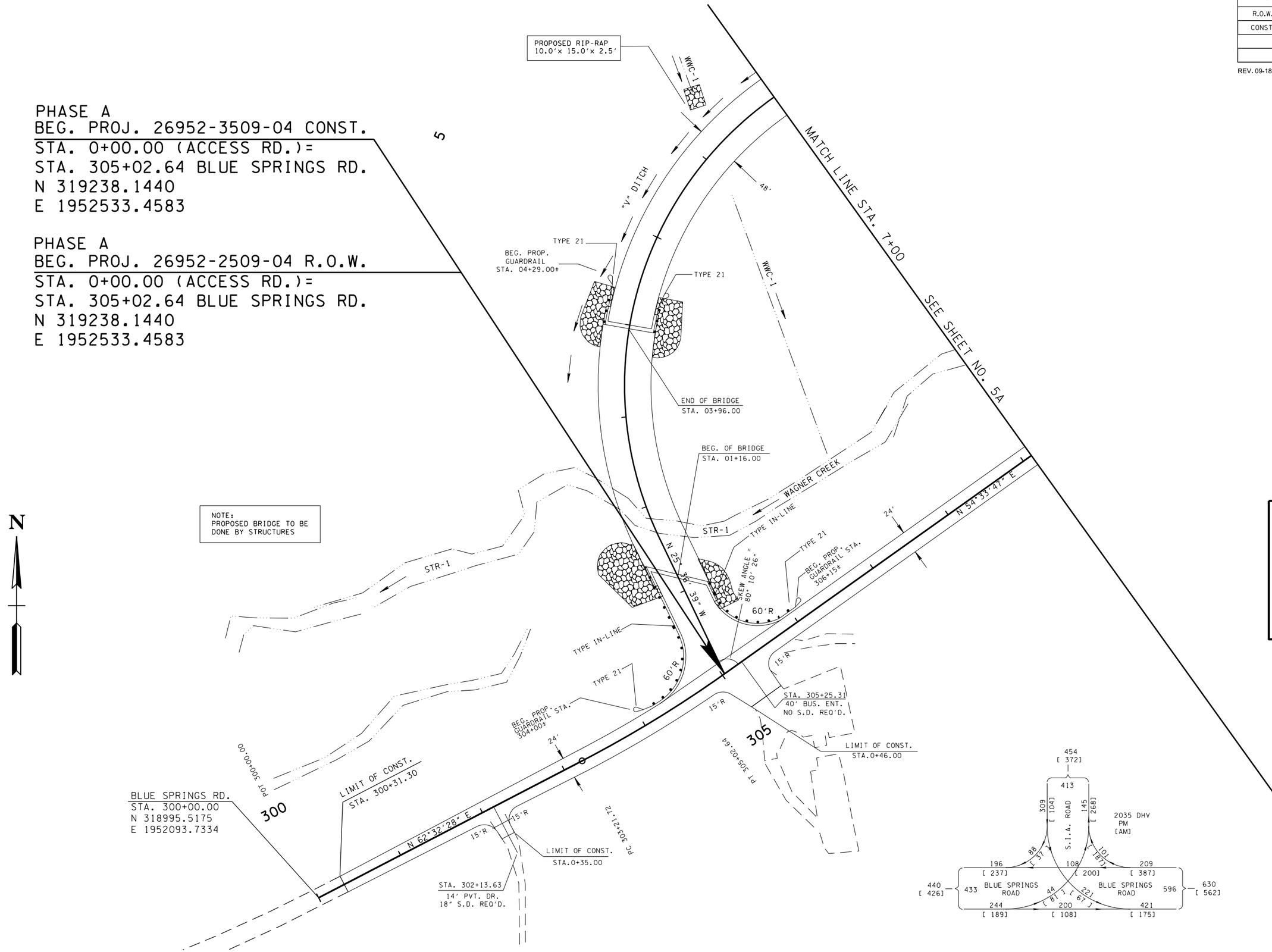
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	4A
CONST.	2015	26952-3509-04	4A

REV. 09-18-2015: ADDED PROJECT PHASING LABEL.

PHASE A
BEG. PROJ. 26952-3509-04 CONST.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583

PHASE A
BEG. PROJ. 26952-2509-04 R.O.W.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106430
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 0+00 TO STA. 7+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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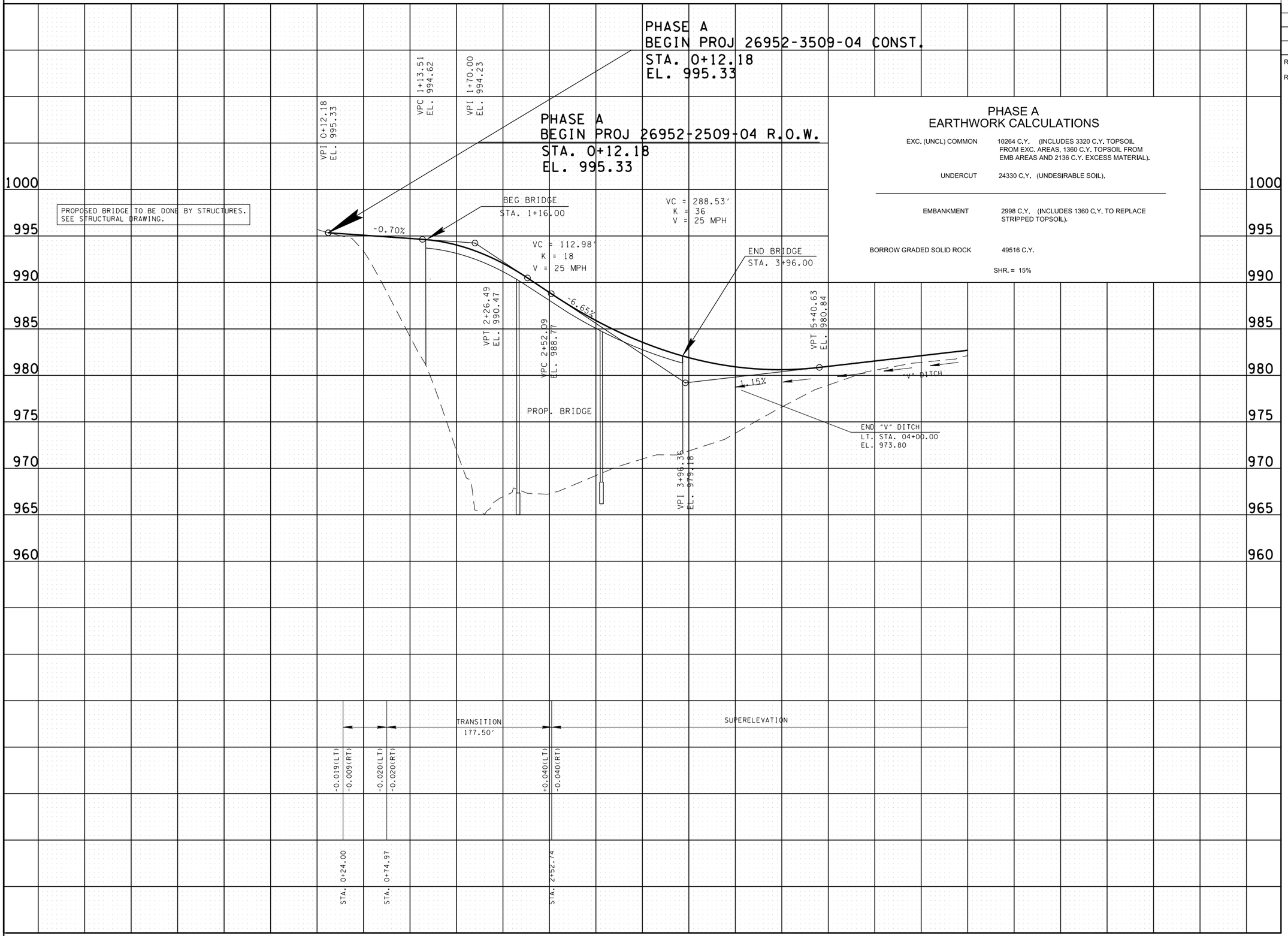
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	4B
CONST.	2015	26852-3509-04	4B

REV. 06-04-2015: REVISED EARTHWORK CALCULATIONS.

REV. 09-18-2015: ADDED PROJECT PHASING LABEL.



PHASE A
EARTHWORK CALCULATIONS

EXC. (UNCL) COMMON	10264 C.Y.	(INCLUDES 3320 C.Y. TOPSOIL FROM EXC. AREAS, 1360 C.Y. TOPSOIL FROM EMB AREAS AND 2136 C.Y. EXCESS MATERIAL).
UNDERCUT	24330 C.Y.	(UNDESIRABLE SOIL).
EMBANKMENT	2998 C.Y.	(INCLUDES 1360 C.Y. TO REPLACE STRIPPED TOPSOIL).
BORROW GRADED SOLID ROCK	49516 C.Y.	

SHR. = 15%

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 0+00 TO STA. 7+00

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

26-OCT-2015 13:45
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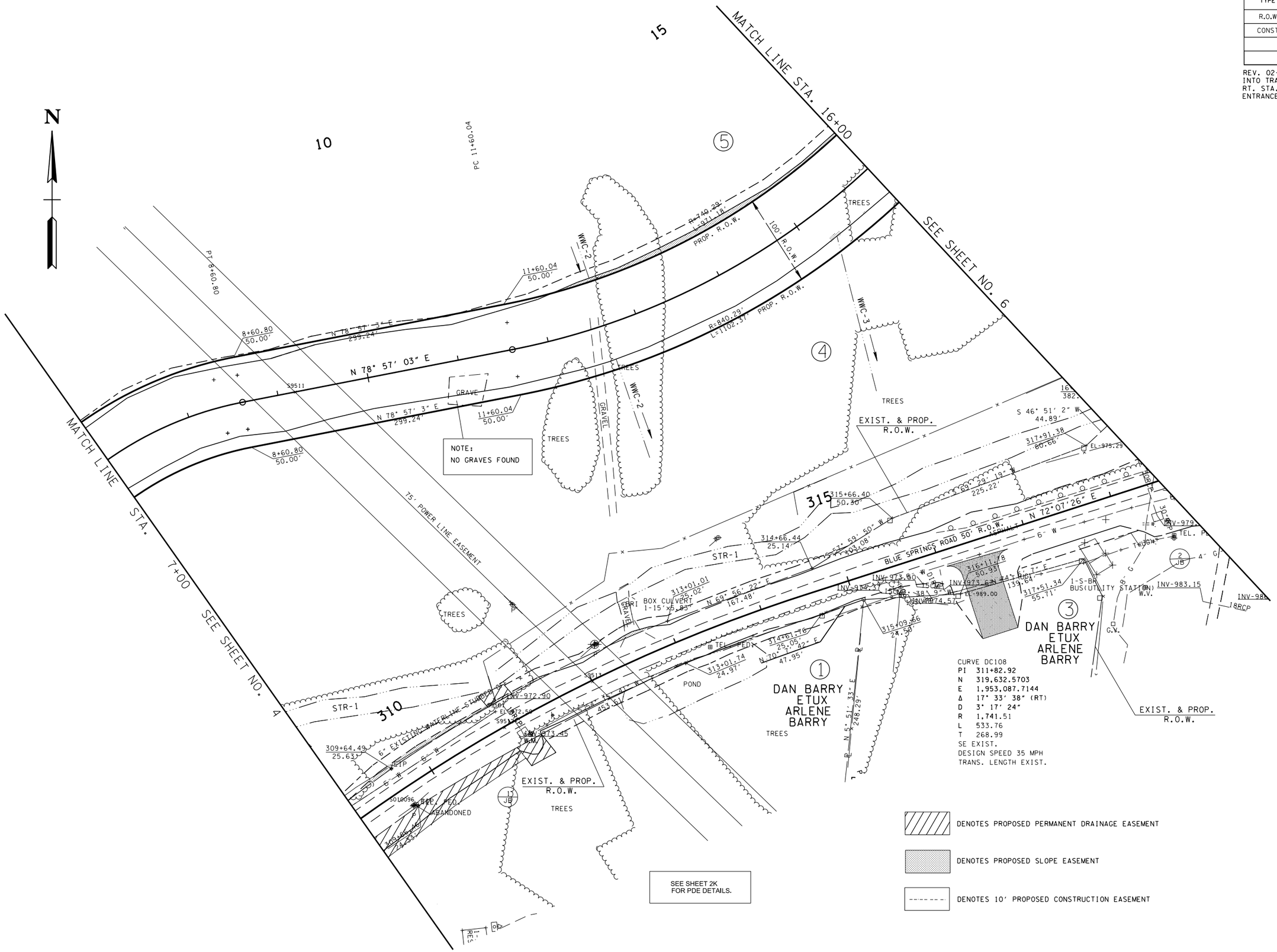
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	5
CONST.	2015	26952-3509-04	5

REV. 02-02-2015: COMBINED TRACT NO. 2 INTO TRACT NO. 1. DELETED FIELD ENTRANCE RT. STA. 315+88.73. ADDED BUSINESS ENTRANCE RT. STA. 316+40.00.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 7+00 TO STA. 16+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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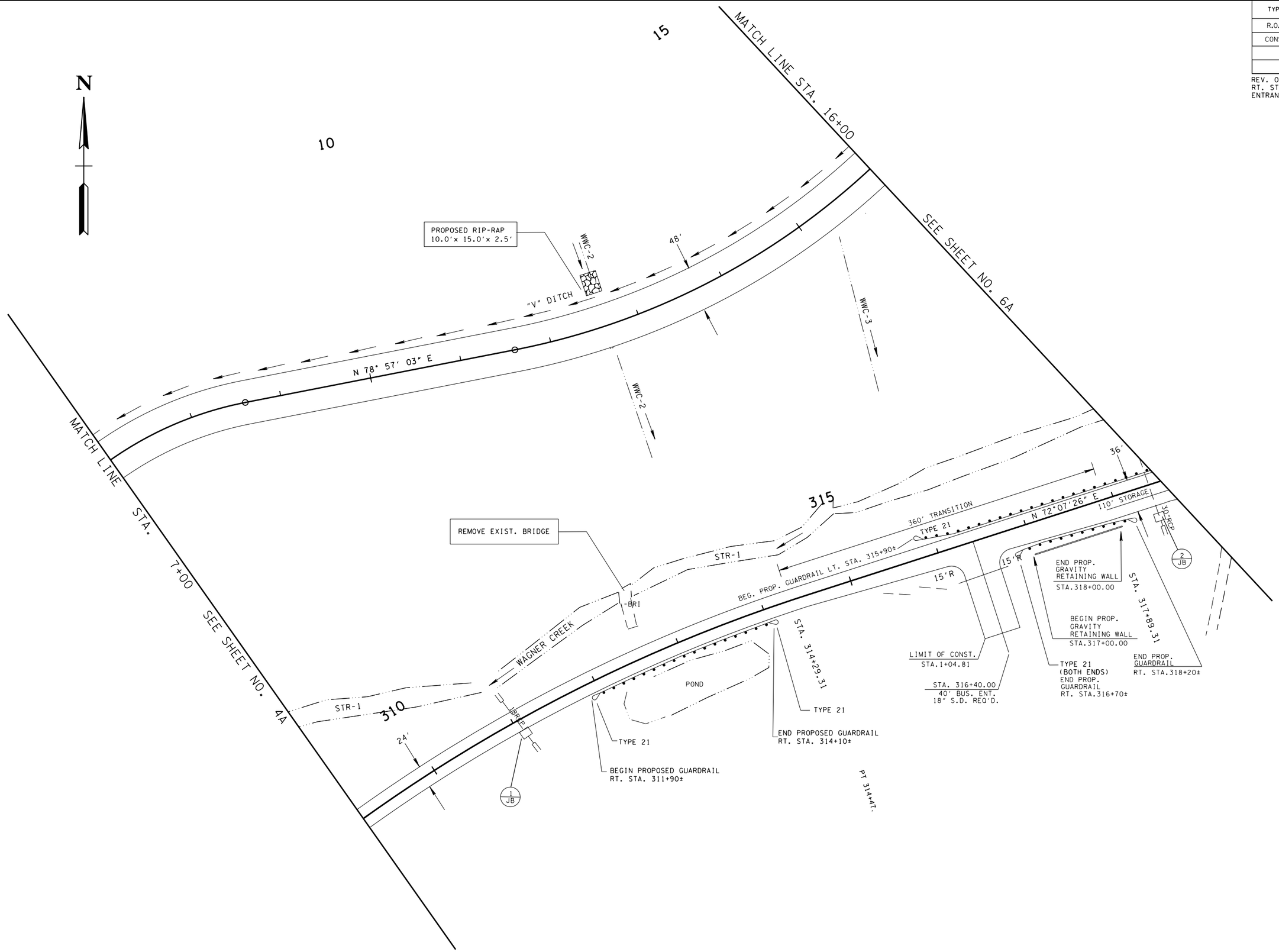
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	5A
CONST.	2015	26952-3509-04	5A

REV. 02-02-2015: DELETED FIELD ENTRANCE RT. STA. 315+88.73. ADDED BUSINESS ENTRANCE RT. STA. 316+40.00.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 7+00 TO STA. 16+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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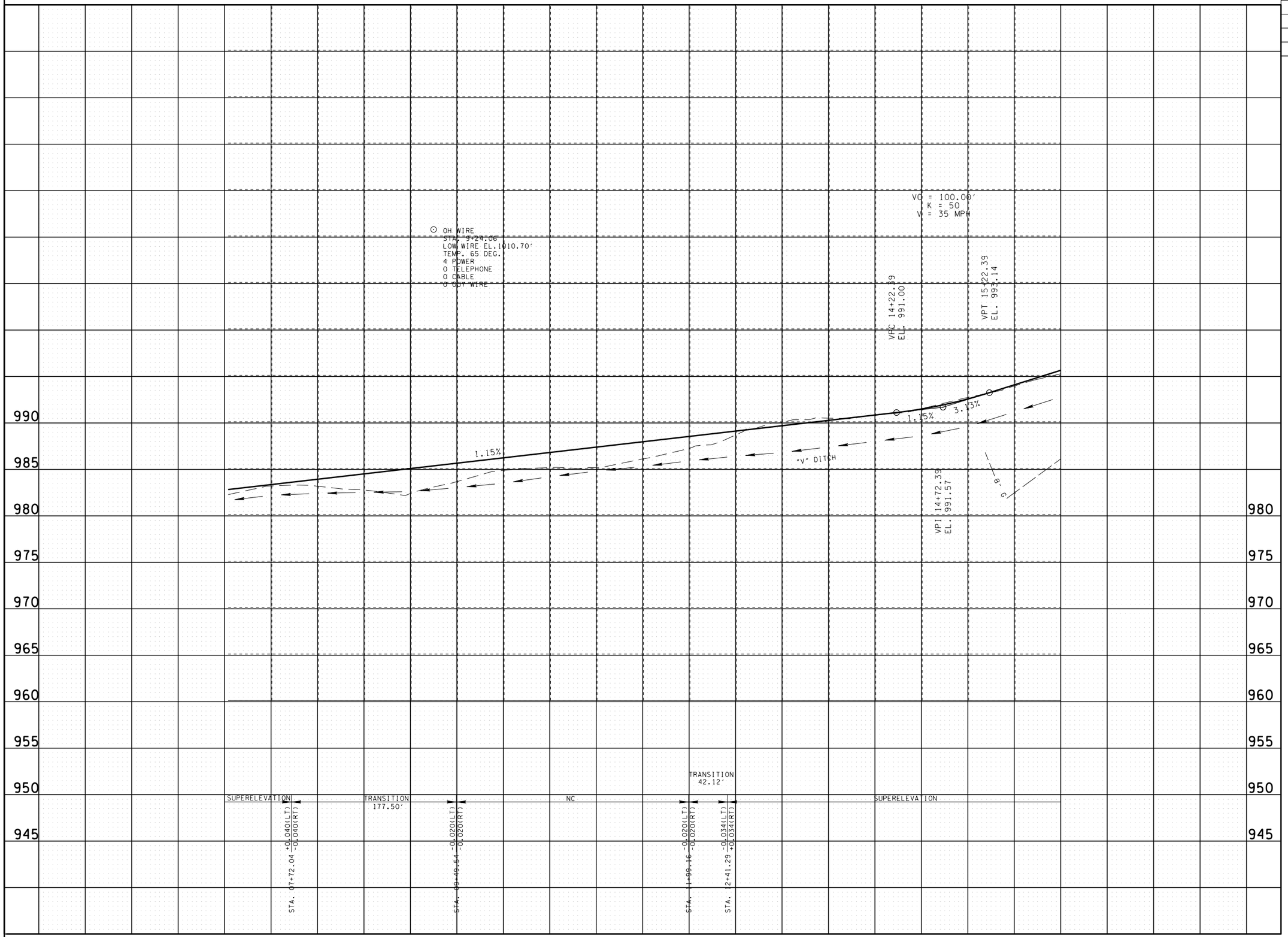
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	5B
CONST.	2015	26952-3509-04	5B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 7+00 TO STA. 16+00

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

26-OCT-2015 13:45
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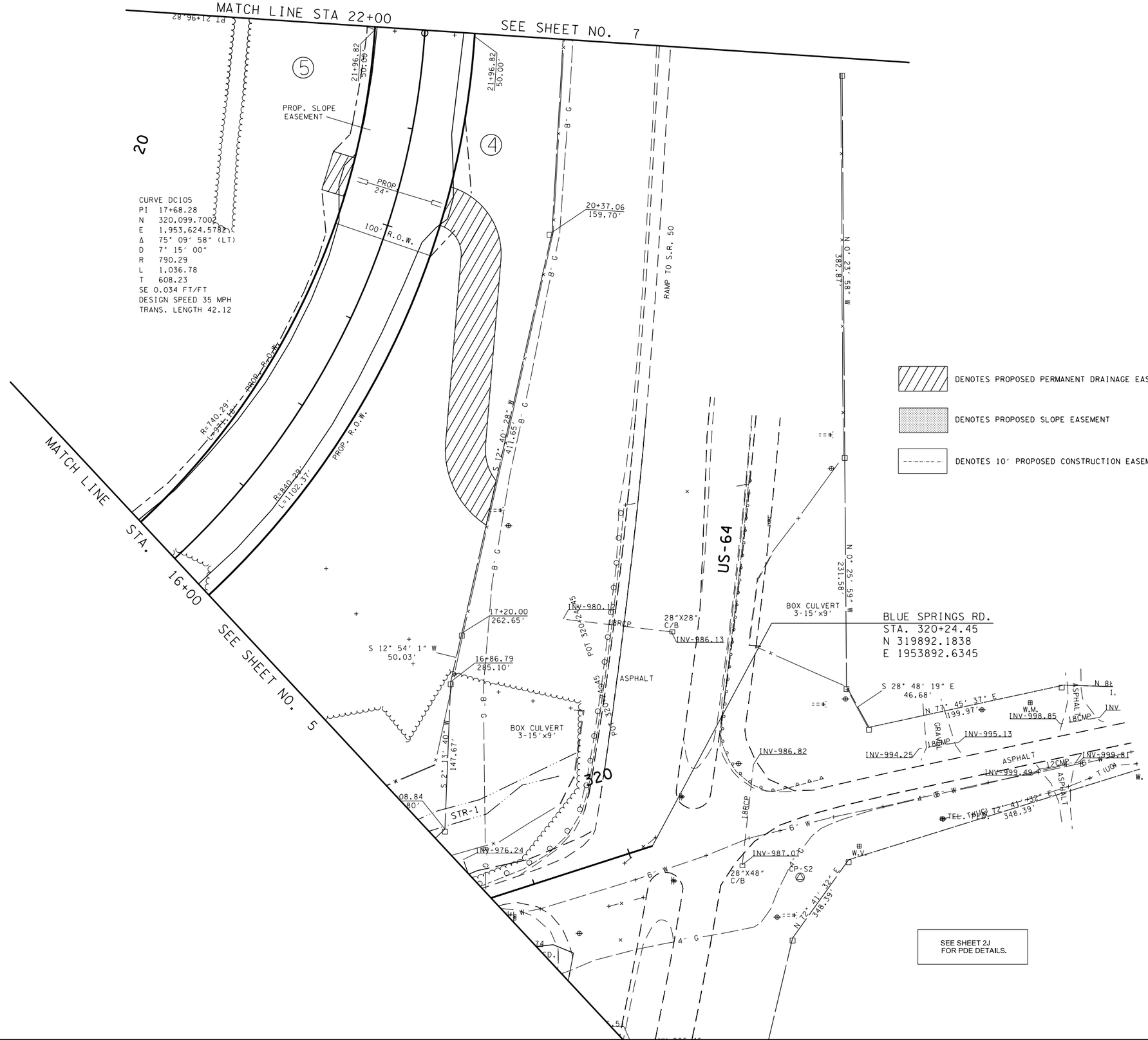
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	6
CONST.	2015	26952-3509-04	6

REV. 02-23-15: MODIFIED PDE ON TRACT NO.4.



DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

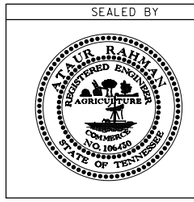
DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 16+00 TO STA. 22+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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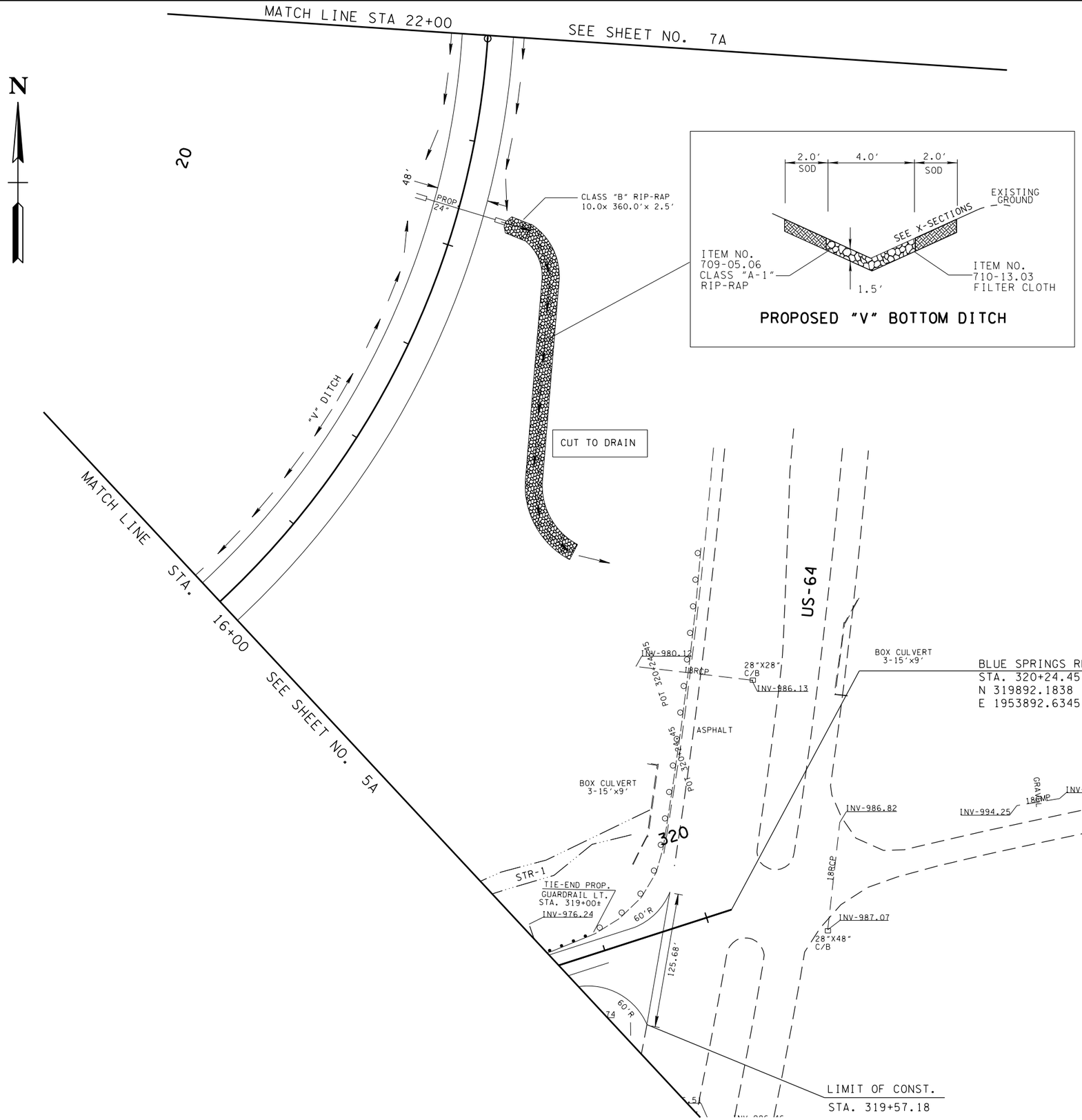
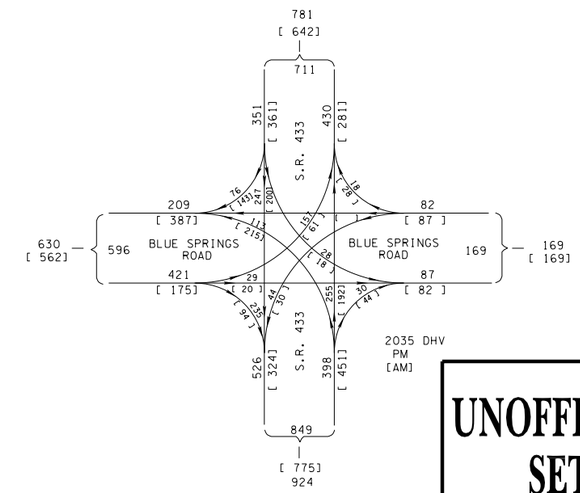
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	6A
CONST.	2015	26952-3509-04	6A

REV. 02-23-15: REALIGNED DITCH FLOW RT. STA. 20+36.10.





UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 16+00 TO STA. 22+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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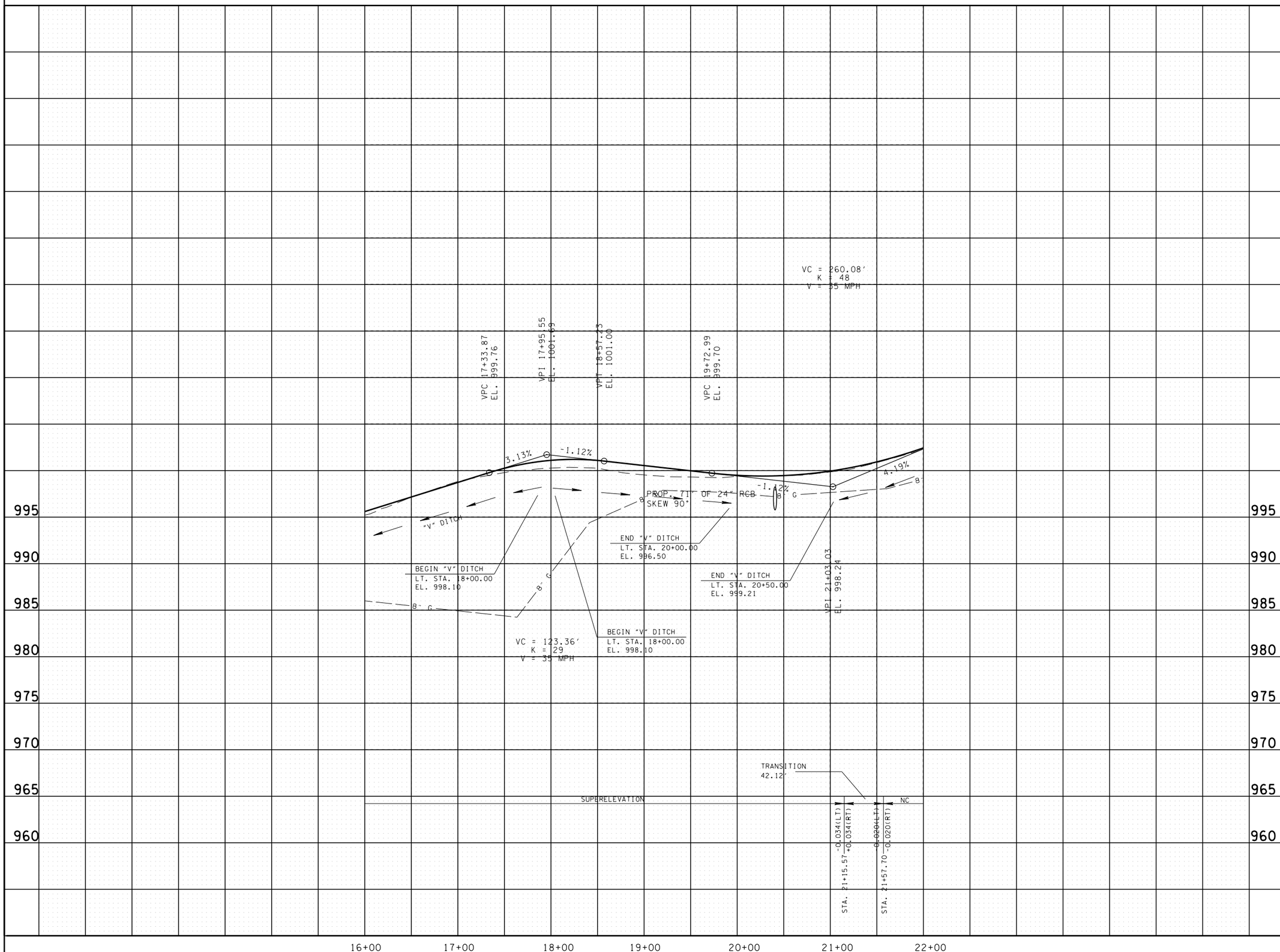
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	6B
CONST.	2015	26952-3509-04	6B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 16+00 TO STA. 22+00

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

26-OCT-2015 13:45
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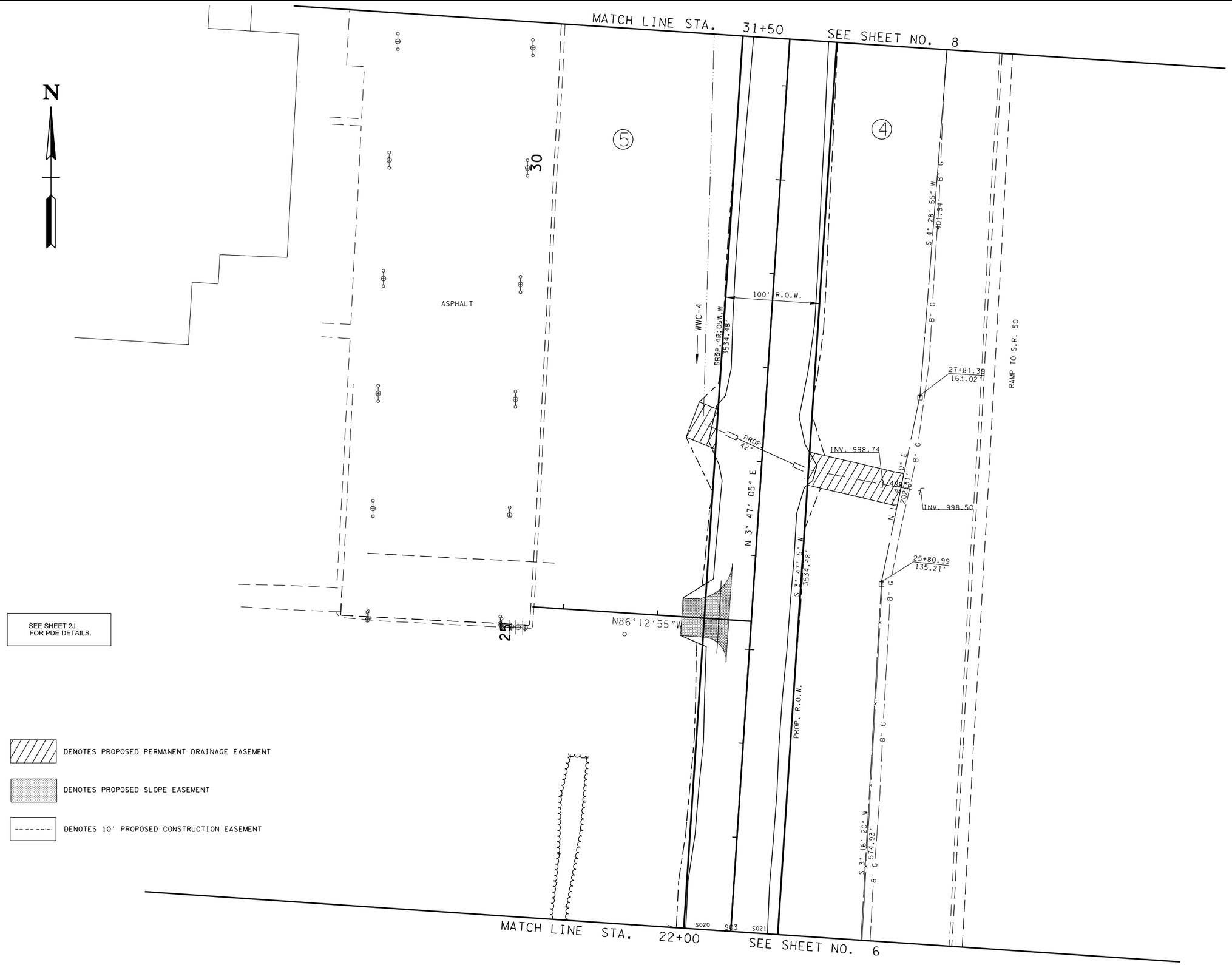
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	7
CONST.	2015	26952-3509-04	7



SEE SHEET 2J
FOR PDE DETAILS.

DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ALAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 22+00 TO STA. 31+50

SCALE: 1"= 50'

26-OCT-2015 13:45
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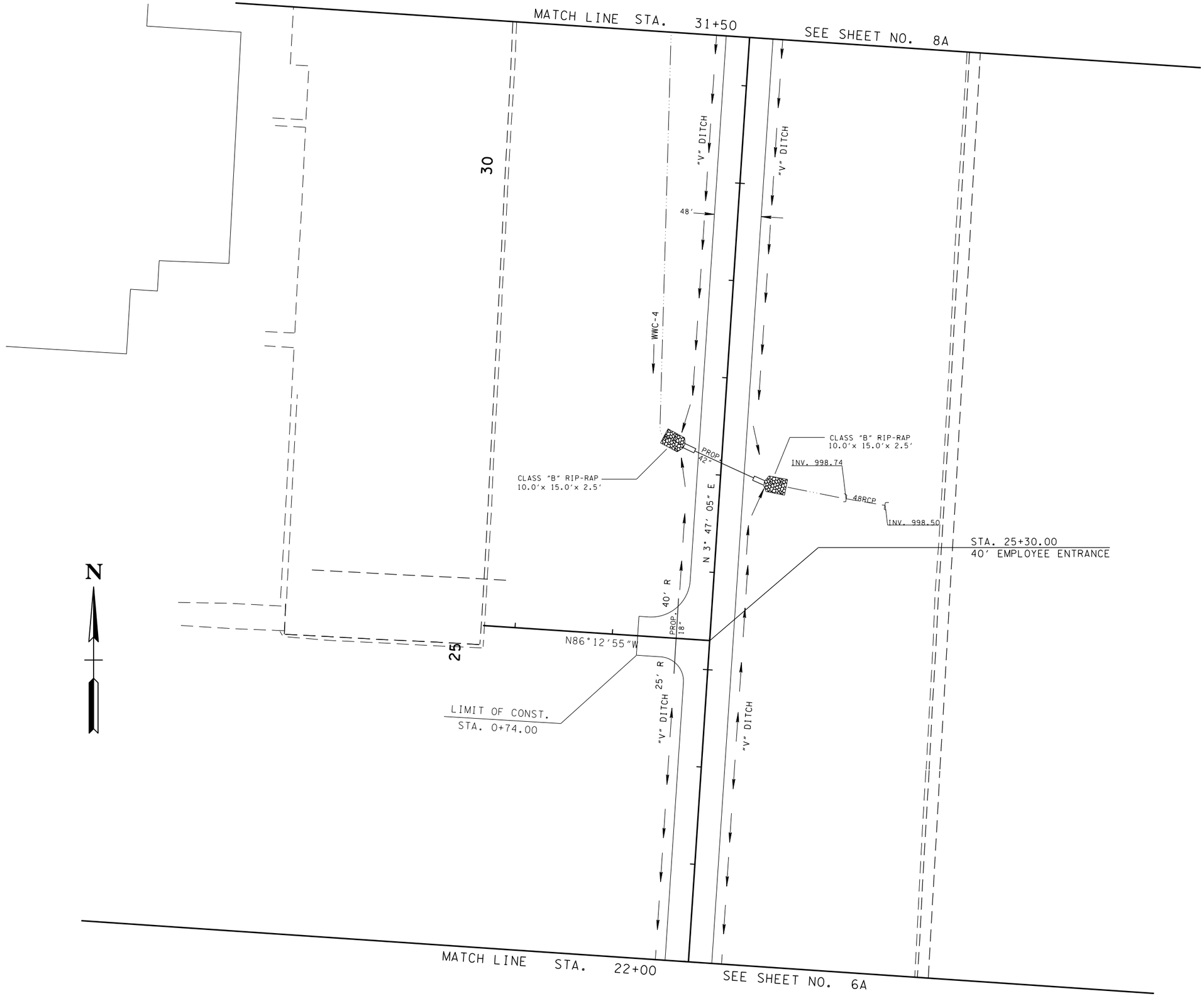
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	7A
CONST.	2015	26952-3509-04	7A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 22+00 TO STA. 31+50

SCALE: 1"= 50'

26-OCT-2015 13:45
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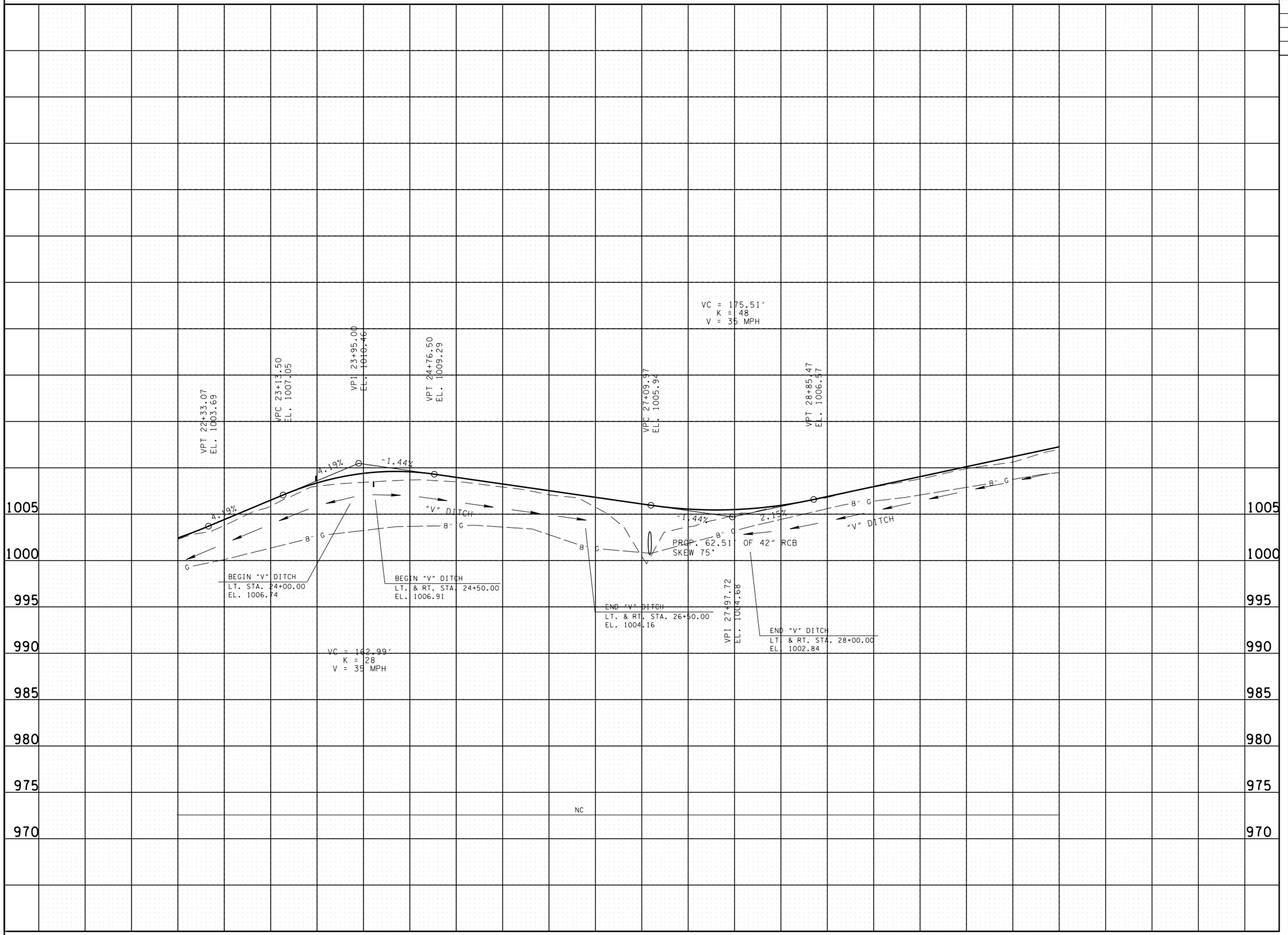
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	7B
CONST.	2015	26952-3509-04	7B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106-00
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 23+00 TO STA. 31+50

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

26-OCT-2015 13:45
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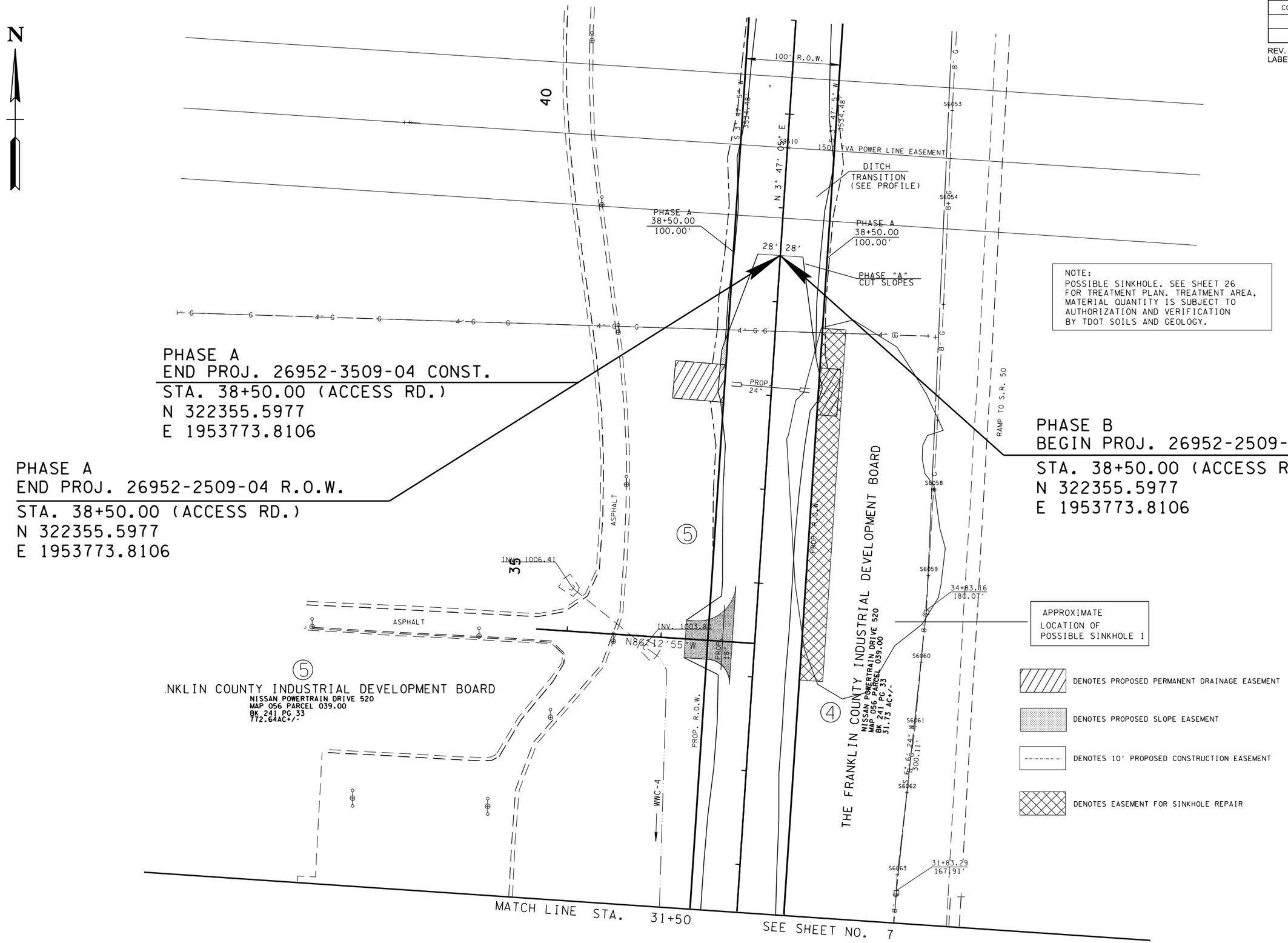
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	8
CONST.	2015	26952-3509-04	8

REV. 09-18-2015: ADDED R.O.W. CALLS AND LABELED PROJECT SPLITTING STATION.



NOTE:
POSSIBLE SINKHOLE. SEE SHEET 26 FOR TREATMENT PLAN. TREATMENT AREA, MATERIAL QUANTITY IS SUBJECT TO AUTHORIZATION AND VERIFICATION BY TDOT SOILS AND GEOLOGY.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 31+50 TO STA. 41+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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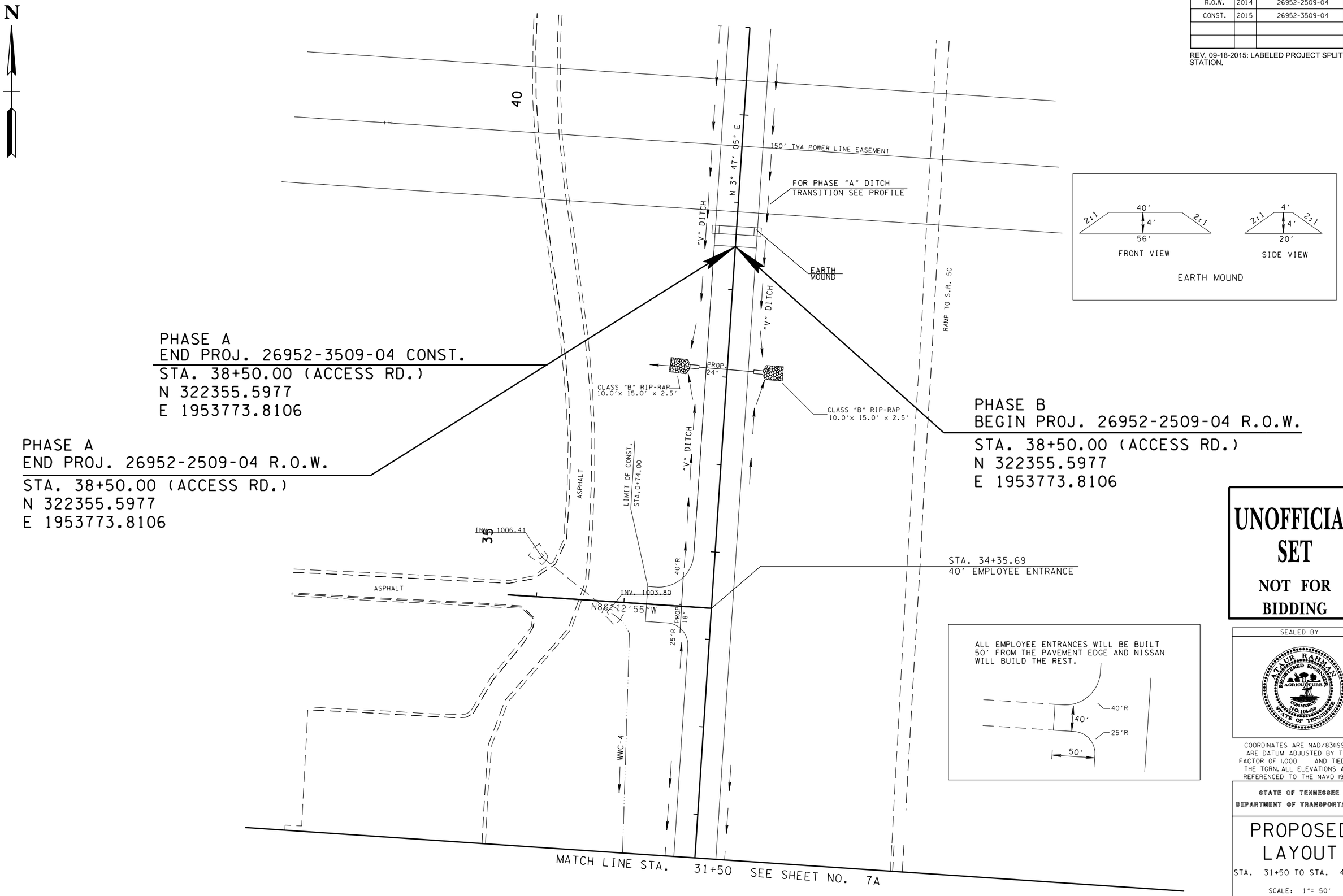
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	8A
CONST.	2015	26952-3509-04	8A

REV. 09-18-2015: LABELED PROJECT SPLITTING STATION.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ALAUR RAHMAN REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 106430 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 31+50 TO STA. 41+00

SCALE: 1"= 50'

26-OCT-2015 13:45
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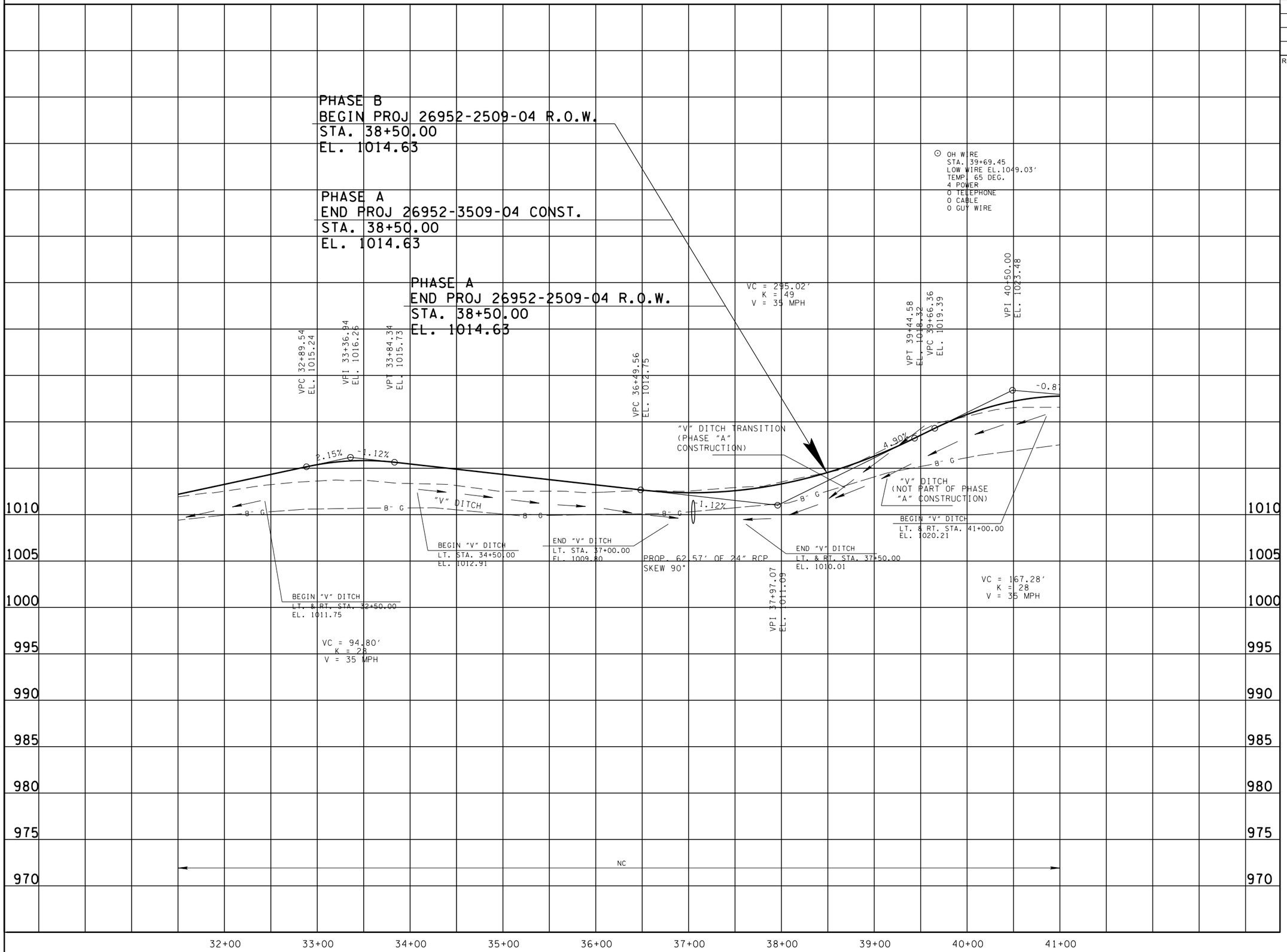
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	8B
CONST.	2015	26952-3509-04	8B

REV. 09-18-2015: LABELED PROJECT SPLITTING STATION.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 31+50 TO STA. 41+00

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

26-OCT-2015 13:45
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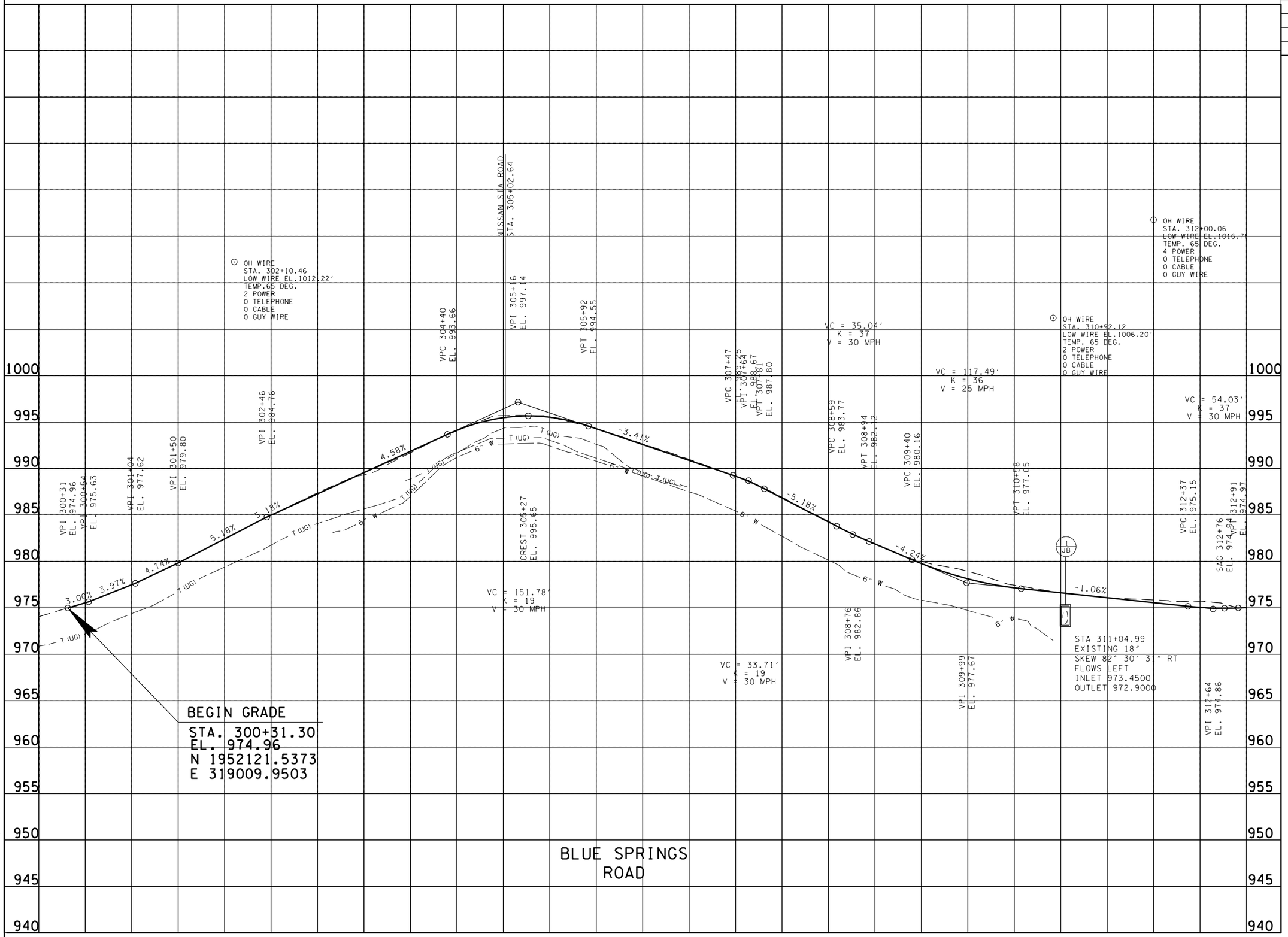
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	16
CONST.	2015	26952-3509-04	9



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

26-OCT-2015 13:45
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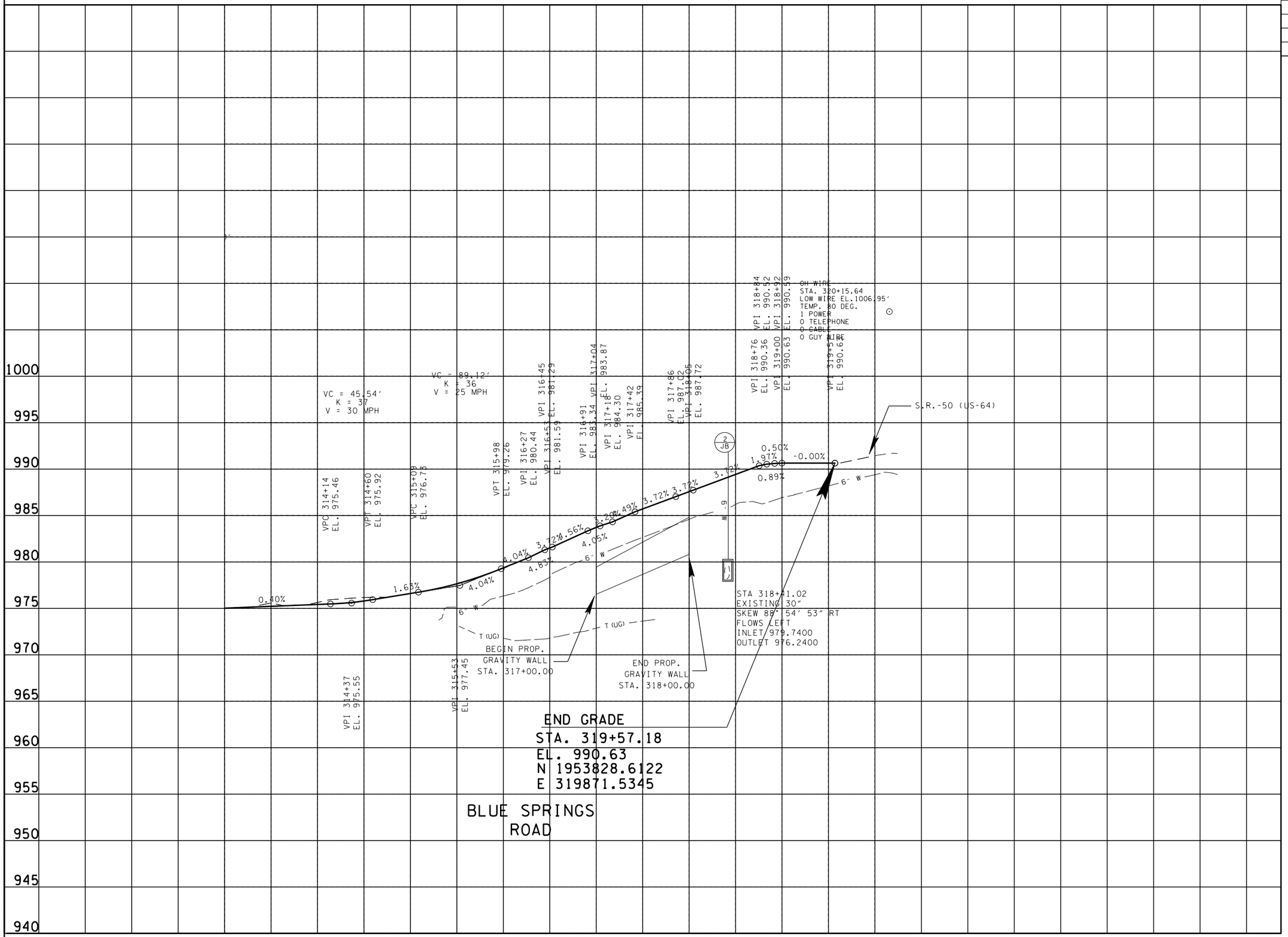
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	17
CONST.	2015	26952-3509-04	10



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

26-OCT-2015 13:45
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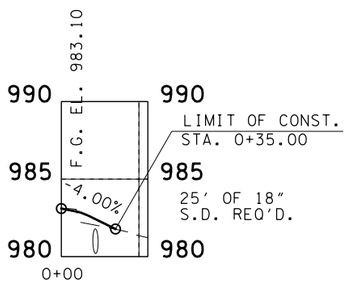
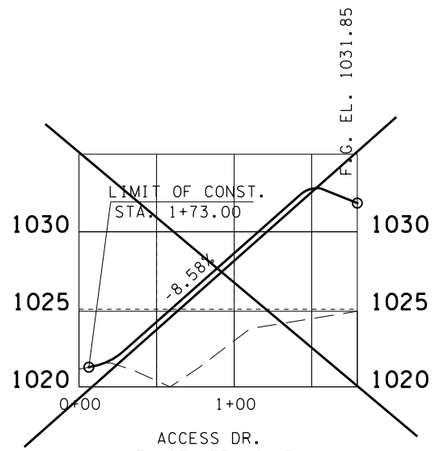
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	14
CONST.	2015	26952-3509-04	11

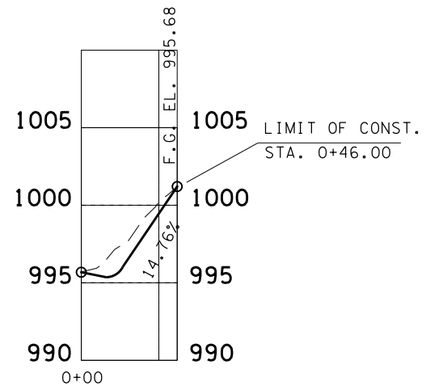
REV. 02-02-2015: DELETED FIELD ENTRANCE RT. STA. 315+88.73. ADDED BUSINESS ENTRANCE RT. STA. 316+40.00.



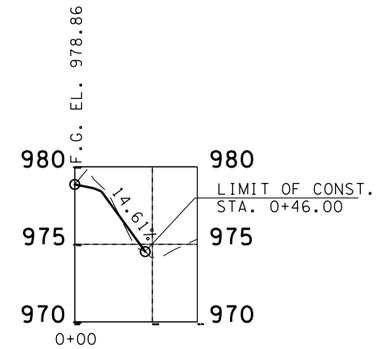
RT. STA 302+13.63
(BLUE SPRINGS ROAD)



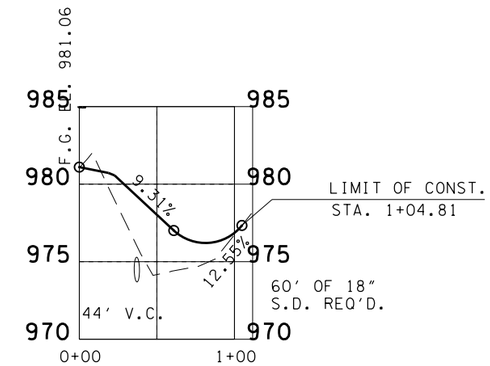
ACCESS DR.
LT. STA 77+14.17
(ACCESS RD.)



BUSINESS ENT.
RT. STA 305+25.31
(BLUE SPRINGS ROAD)

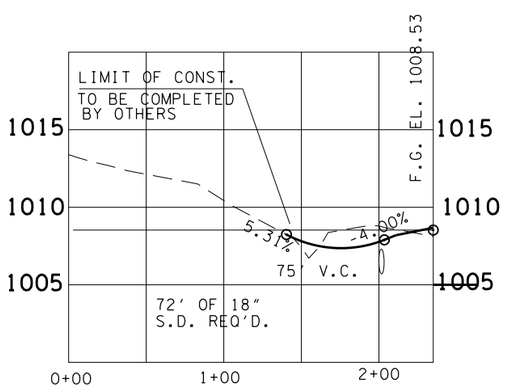


RT. STA 315+88.73
BLUE SPRINGS ROAD

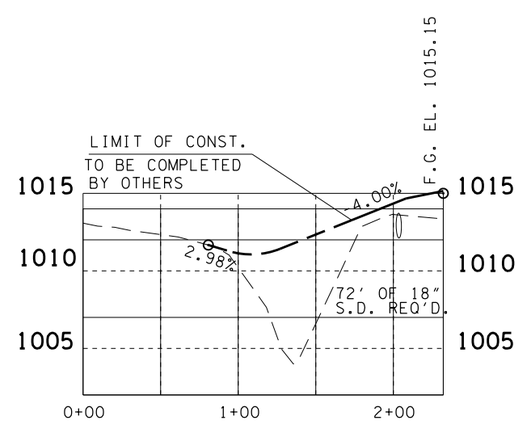


BUSINESS ENT.
RT. STA 316+40.00
(BLUE SPRINGS ROAD)
TRACT NO. 3

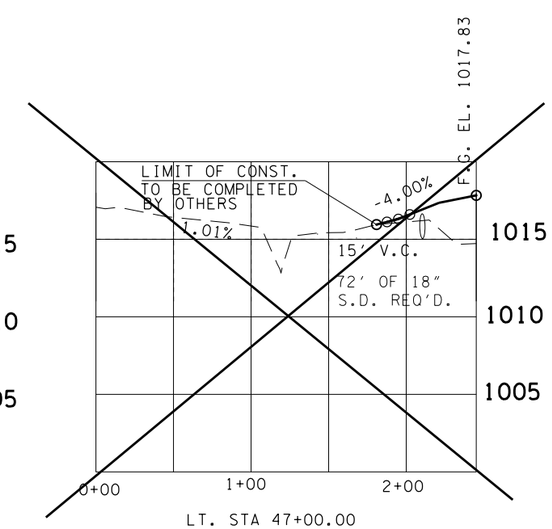
ALL EMPLOYEE ENTRANCES WILL BE BUILT 50'-00 FROM THE EDGE OF PAVEMENT AND NISSAN WILL BUILD THE REST.



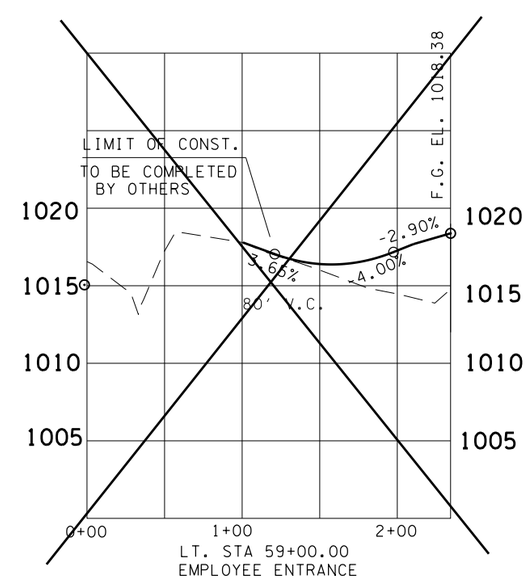
LT. STA 25+30.00
EMPLOYEE ENTRANCE



LT. STA 34+35.69
EMPLOYEE ENTRANCE



LT. STA 47+00.00
EMPLOYEE ENTRANCE

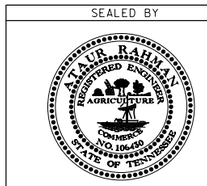


LT. STA 59+00.00
EMPLOYEE ENTRANCE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

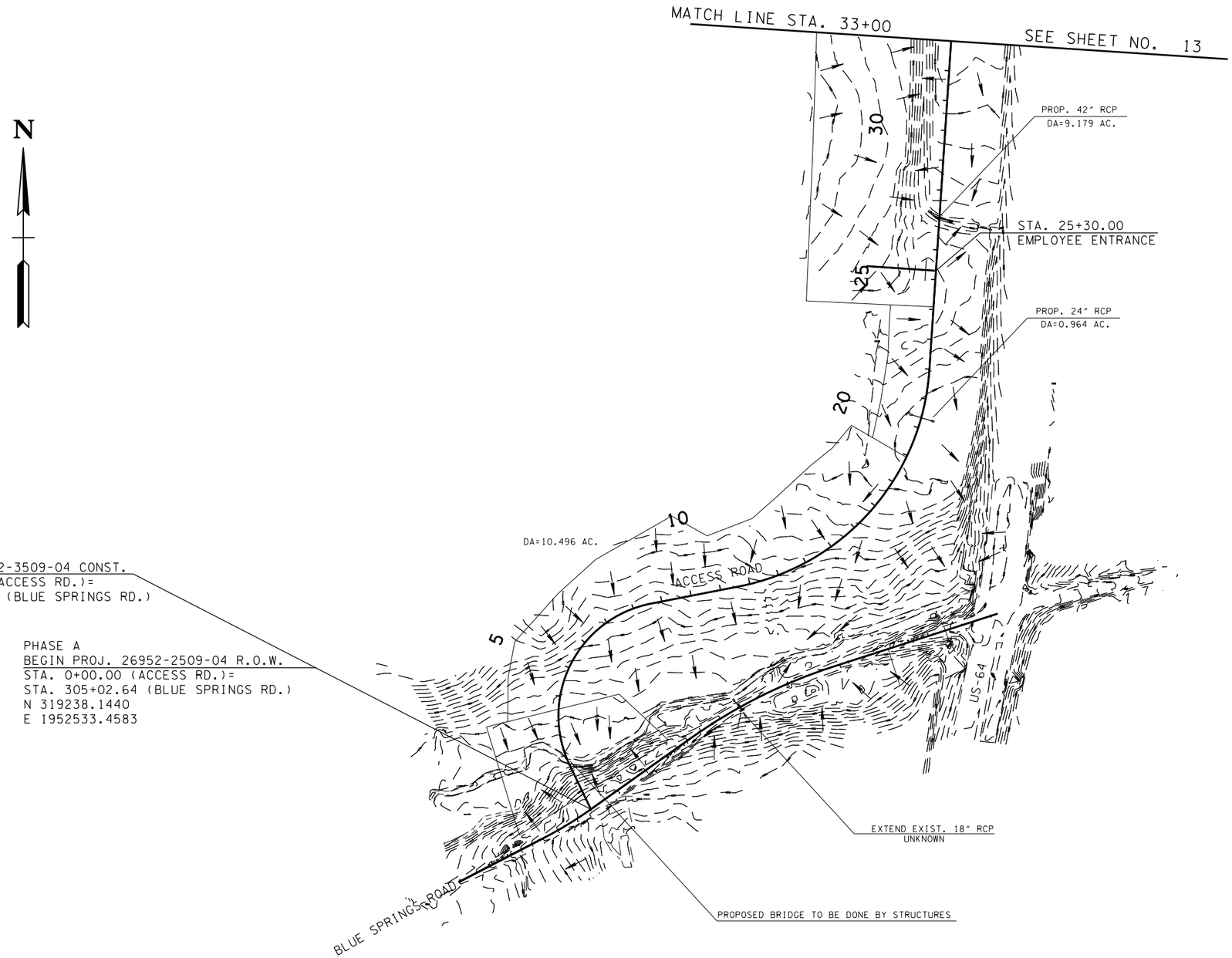
PROFILE OF ENTRANCE RAMPS

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

26-OCT-2015 13:45
C:\D Drive\Franklin\SIA Serving Nissan\L014.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	18
CONST.	2015	26952-3509-04	12

REV. 09-18-2015: LABELED PROJECT PHASING.



PHASE A
END PROJ. 26952-3509-04 CONST.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 (BLUE SPRINGS RD.)
N 319238.1440
E 1952533.4583

PHASE A
BEGIN PROJ. 26952-2509-04 R.O.W.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 (BLUE SPRINGS RD.)
N 319238.1440
E 1952533.4583

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TORN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

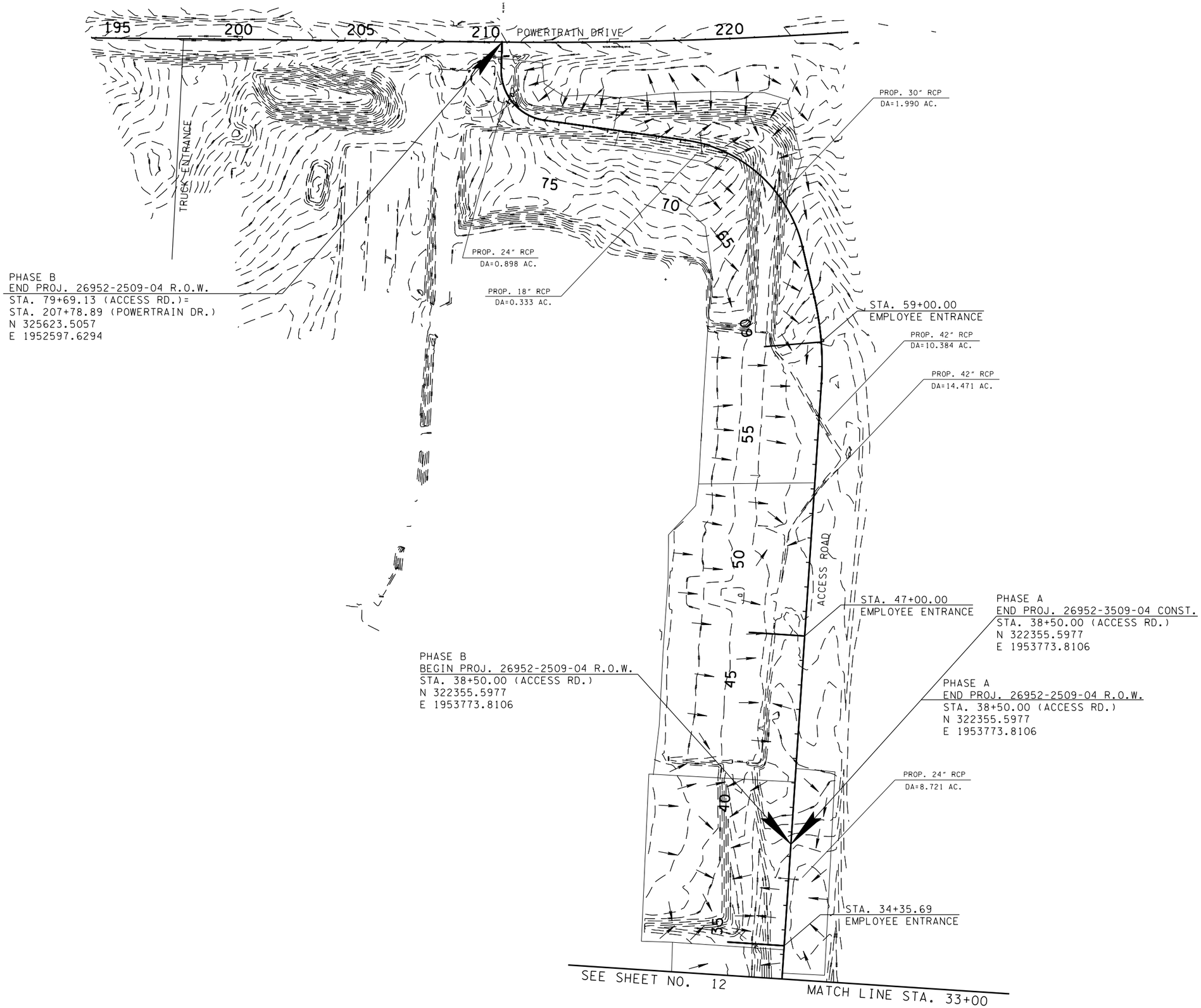
STA. 00+00 TO STA. 33+00

SCALE: 1"=200'

015 13:45
Serving Nissan\L018.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	18A
CONST.	2015	26952-3509-04	13

REV. 09-18-2015: LABELED PROJECT PHASING STATION.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 33+00 TO STA. 79+72

SCALE: 1"=200'

26-OCT-2015 13:45
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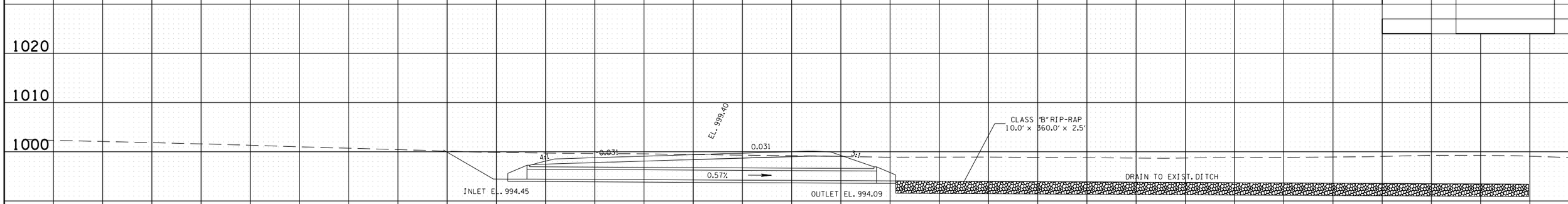
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	19
CONST.	2015	26952-3509-04	14



STA. 20+36.10 (ACCESS ROAD)
71.00' OF 24" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-24A , D-PE-24B
D.A. = 1.76 AC.
Q50 = 6.20 CFS
CLASS 'A" CONCRETE 2.89 C.Y.
STEEL BAR REINFORCING 277 LBS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=10 ' HORIZ.
1"=10' VERT.

60 40 20 0 20 40 60

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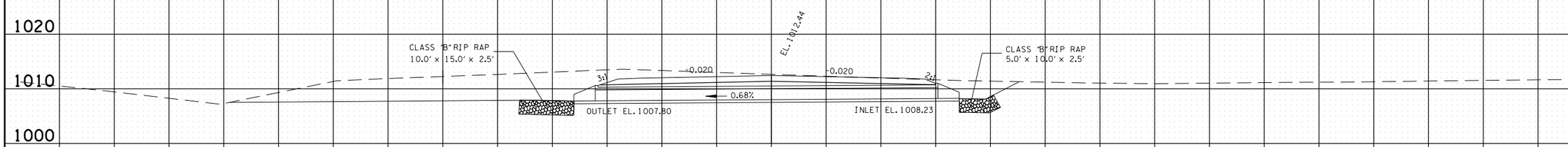
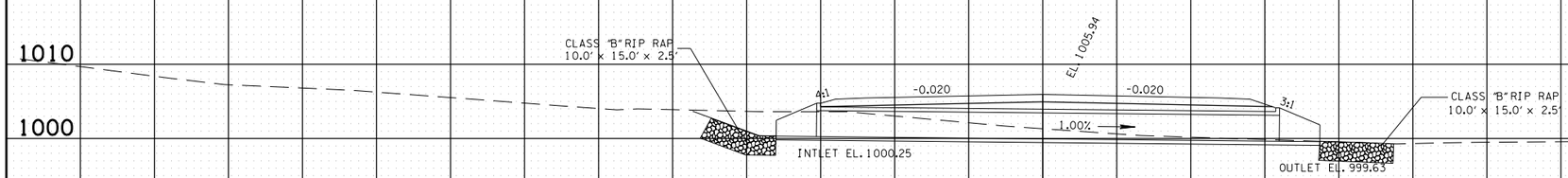
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	20
CONST.	2015	26952-3509-04	15

STA. 37+08.78 (ACCESS ROAD)
62.57' OF 24" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-24A, D-PE-24B
D.A. = 0.67 AC.
Q50 = 3.03 CFS
CLASS "A" CONCRETE 2.56 C.Y.
STEEL BAR REINFORCING 148 LBS



STA. 27+10.34 (ACCESS ROAD)
62.51 OF 42" RCP
SKEW 75°
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-42A, D-PE-42B
D.A. = 20.11 AC.
Q50 = 61.64 CFS
CLASS 'A' CONCRETE 6.88 C.Y.
STEEL BAR REINFORCING 588 LBS.
STRUCTURAL STEEL 329 LBS



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106430
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

60 40 20 0 20 40 60

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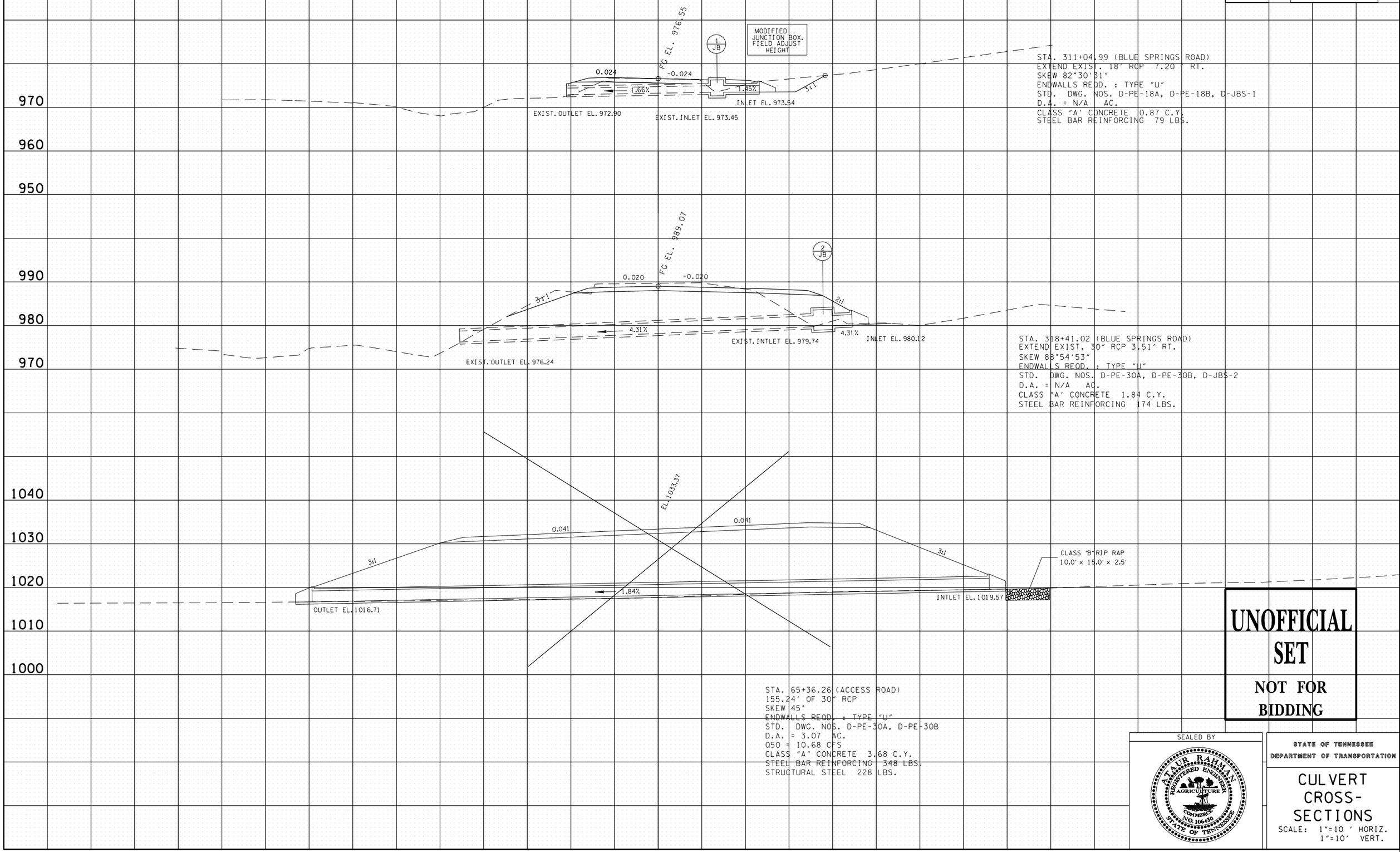
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	22
CONST.	2015	26952-3509-04	16



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106430
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

26-OCT-2015 13:45
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24
CONST.	2015	26952-3509-04	17

REV. 09-17-2015: REMOVED QUANTITIES FOR TRUCK ENTRANCE AND POWERTRAIN DRIVE.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

(2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(3) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(4) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(5) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

a. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

b. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

c. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

d. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(6) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 15 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(7) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

(8) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTERCONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(9) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW"

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
TCE	TEMPORARY CULVERT CROSSING (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-25
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	EC-STR-27
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-32
	SAND BAG BERM	EC-STR-33
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1

09-17-2015 EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	430	C.Y.
209-02.04	10" TEMPORARY SLOPE DRAIN	50	L.F.
209-05	SEDIMENT REMOVAL	400	C.Y.
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	2534	L.F.
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	1530	L.F.
209-08.07	ROCK CHECK DAM	41	EACH
209-08.08	ENHANCED ROCK CHECK DAM	19	EACH
209-09.01	SANDBAGS	42	BAG
209-09.02	TEMPORARY SEDIMENT FILTER BAG (14'6" X 2'0" X 13'3")	4	BAG
303-10.01	MINERAL AGGREGATE (SIZE 57)	125	TON
621-03.02	18" TEMPORARY DRAIN PIPE	500	L.F.
621-03.07	48" TEMPORARY DRAIN PIPE	200	L.F.
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	1460	L.F.
709-05.05	MACHINED RIP-RAP(CLASS A-3)	150	TON
709-05.06	MACHINED RIP-RAP(CLASS A-1)	788	TON
740-11.03	TEMPORARY SEDIMENT TUBE (18 INCH)	6100	L.F.
740-10.03	GEOTEXTILE (TYPE III EROSION CONTROL)	1416	S.Y.
801-01	SEEDING(WITH MULCH)	3	UNIT
801-02	SEEDING(WITHOUT MULCH)	3	UNIT
801-01.07	TEMPORARY SEEDING(WITH MULCH)	3	UNIT
801-03	WATER (SEEDING AND SODDING)	7	M.G.
803-01	SODDING (NEW SOD)	7550	S.Y.

NOTES

ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
ALL TEMPORARY CONSTRUCTION EXIT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

THE PERIMETER MEASURES INSTALLED UNDER STAGE 1 ARE TO REMAIN IN PLACE UNTIL THEY ARE REPLACED OR NO LONGER NEEDED.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106450
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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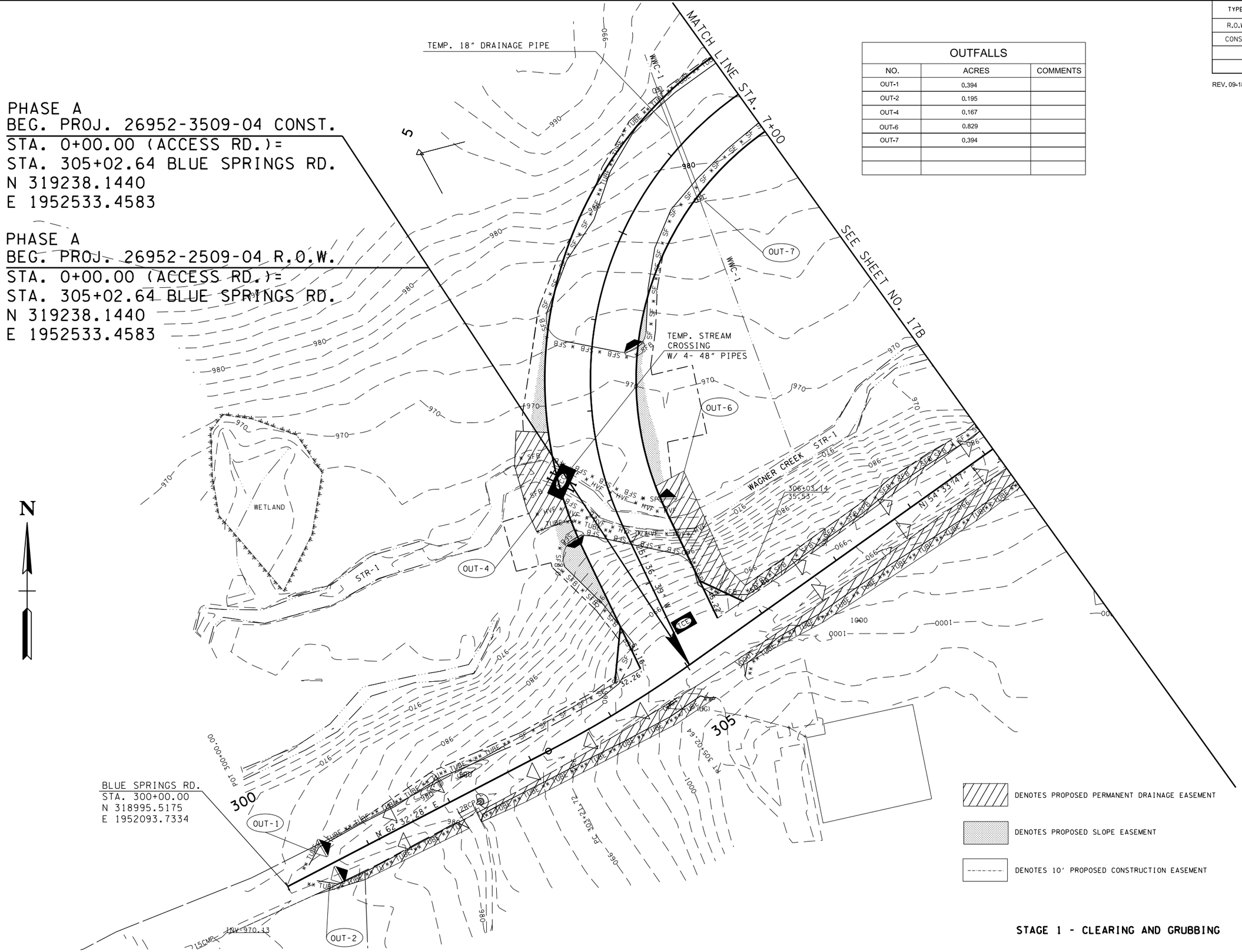
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24A
CONST.	2015	26952-3509-04	17A

REV. 09-18-2015: LABELED PROJECT PHASING.

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-1	0.394	
OUT-2	0.195	
OUT-4	0.167	
OUT-6	0.829	
OUT-7	0.394	

PHASE A
BEG. PROJ. 26952-3509-04 CONST.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583

PHASE A
BEG. PROJ. 26952-2509-04 R.O.W.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583



DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

STAGE 1 - CLEARING AND GRUBBING

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA.0+00 TO STA.7+00

SCALE: 1"= 50'

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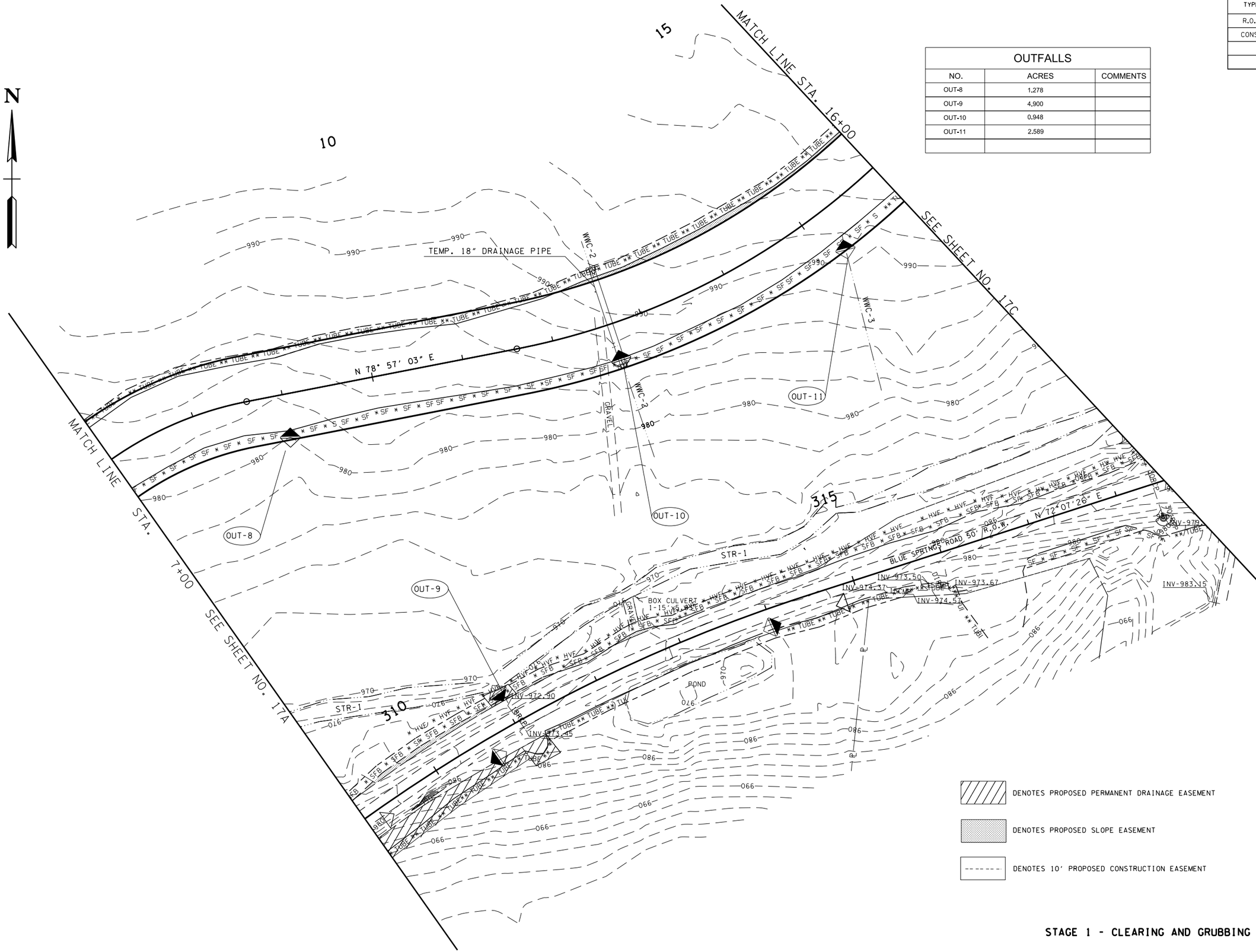
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24B
CONST.	2015	26952-3509-04	17B

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-8	1.278	
OUT-9	4.900	
OUT-10	0.948	
OUT-11	2.589	



DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

STAGE 1 - CLEARING AND GRUBBING

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

AAAUR RAHMAN REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 106450 STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA.7+00 TO STA.16+00

SCALE: 1"= 50'

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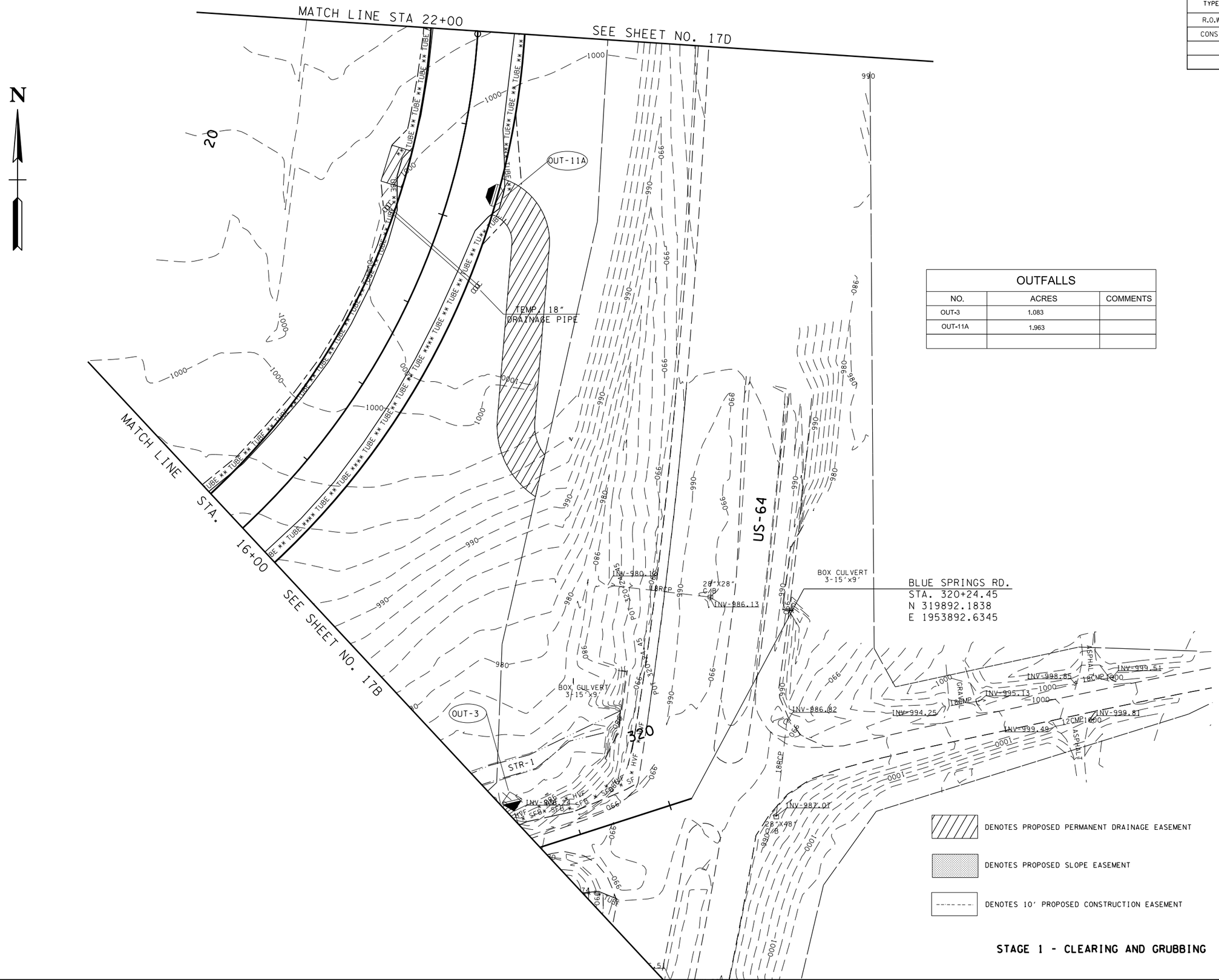
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24C
CONST.	2015	26952-3509-04	17C



OUTFALLS		
NO.	ACRES	COMMENTS
OUT-3	1.083	
OUT-11A	1.963	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA.16+00 TO STA.22+00

SCALE: 1"= 50'

STAGE 1 - CLEARING AND GRUBBING

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24D
CONST.	2015	26952-3509-04	17D

DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-12	10.311	

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STAGE 1 - CLEARING AND GRUBBING

EPSC PLAN

STA.22+00 TO STA.31+50

SCALE: 1"= 50'

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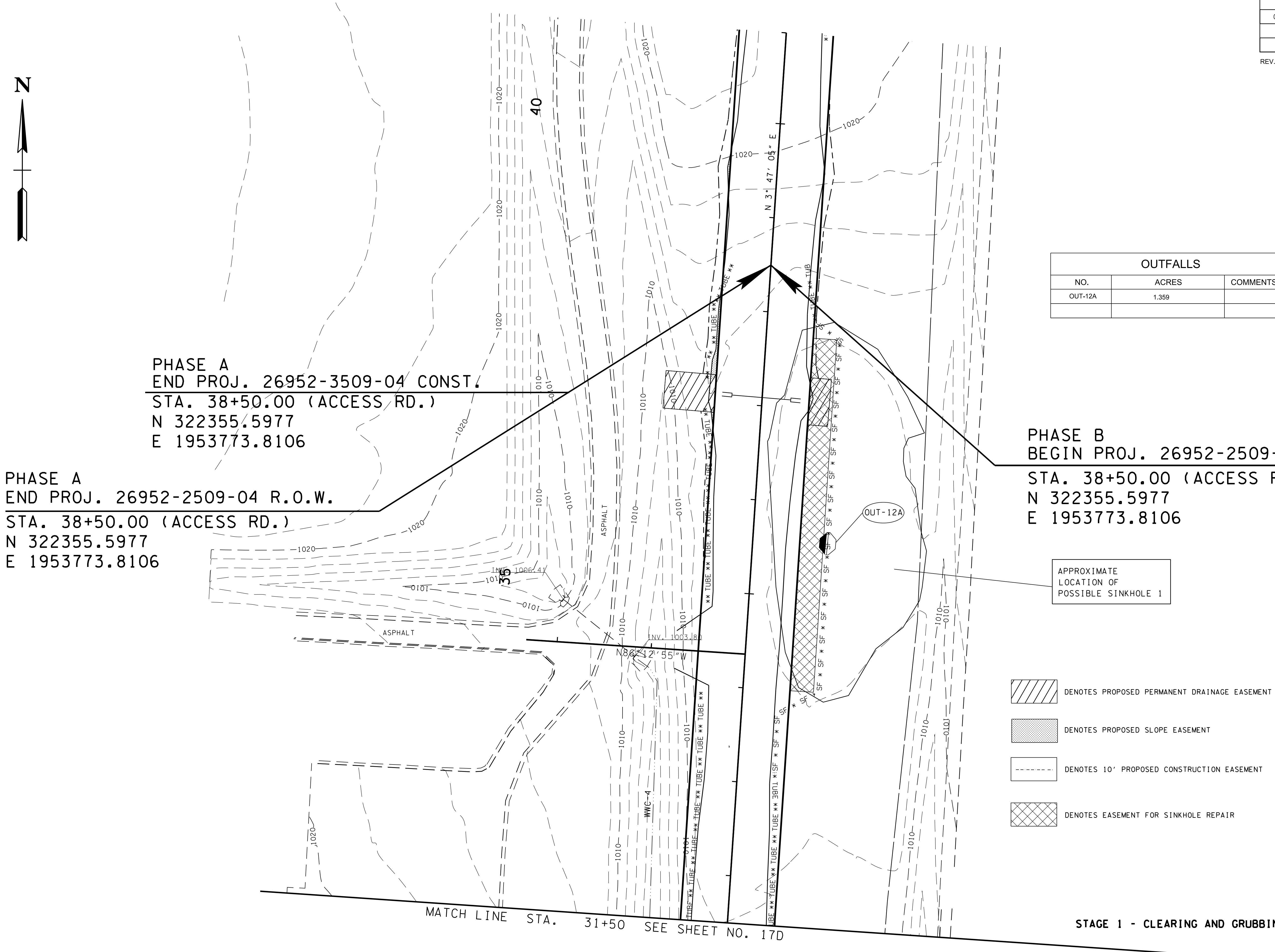
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24E
CONST.	2015	26952-3509-04	17E

REV. 09-18-2015: ADDED PROJECT PHASING STATION.



OUTFALLS		
NO.	ACRES	COMMENTS
OUT-12A	1.359	

DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10′ PROPOSED CONSTRUCTION EASEMENT

DENOTES EASEMENT FOR SINKHOLE REPAIR

STAGE 1 - CLEARING AND GRUBBING

UNOFFICIAL SET

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REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106430
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA.31+50 TO STA.41+00

SCALE: 1″= 50′

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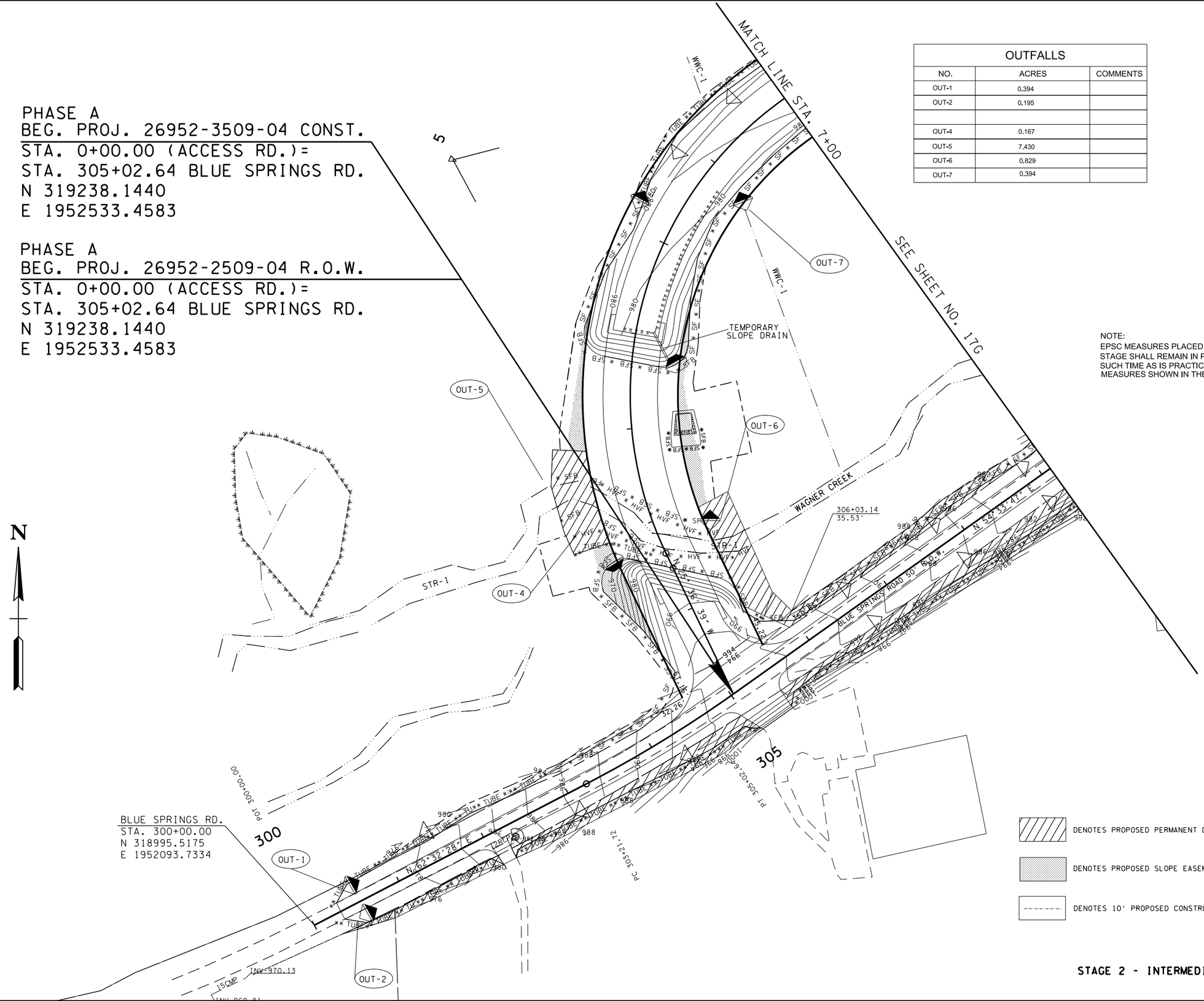
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24K
CONST.	2015	26952-3509-04	17F

REV. 09-18-2015: LABELED PROJECT PHASING.

PHASE A
BEG. PROJ. 26952-3509-04 CONST.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583

PHASE A
BEG. PROJ. 26952-2509-04 R.O.W.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-1	0.394	
OUT-2	0.195	
OUT-4	0.167	
OUT-5	7.430	
OUT-6	0.829	
OUT-7	0.394	



NOTE:
EPSC MEASURES PLACED IN THE PREVIOUS STAGE SHALL REMAIN IN PLACE UNTIL SUCH TIME AS IS PRACTICAL TO INSTALL MEASURES SHOWN IN THE CURRENT STAGE.

DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

STAGE 2 - INTERMEDIATE GRADING

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 0+00 TO STA. 7+00

SCALE: 1"= 50'

26-OCT-2015 13:46
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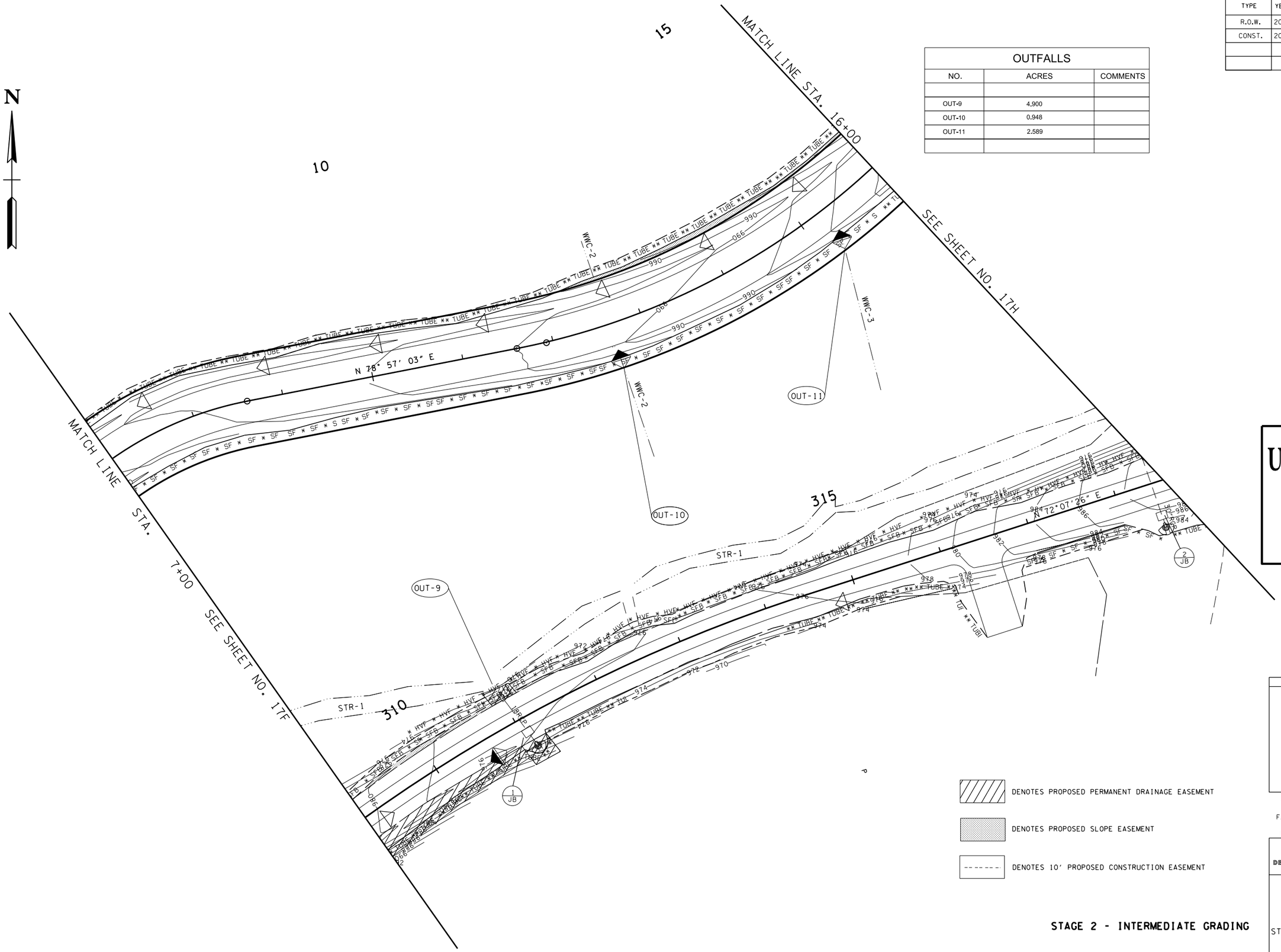
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24L
CONST.	2015	26952-3509-04	17G

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-9	4.900	
OUT-10	0.948	
OUT-11	2.589	



DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

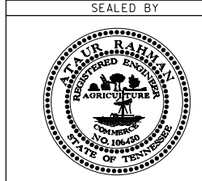
DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

STAGE 2 - INTERMEDIATE GRADING

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 7+00 TO STA. 16+00

SCALE: 1"= 50'

26-OCT-2015 13:46
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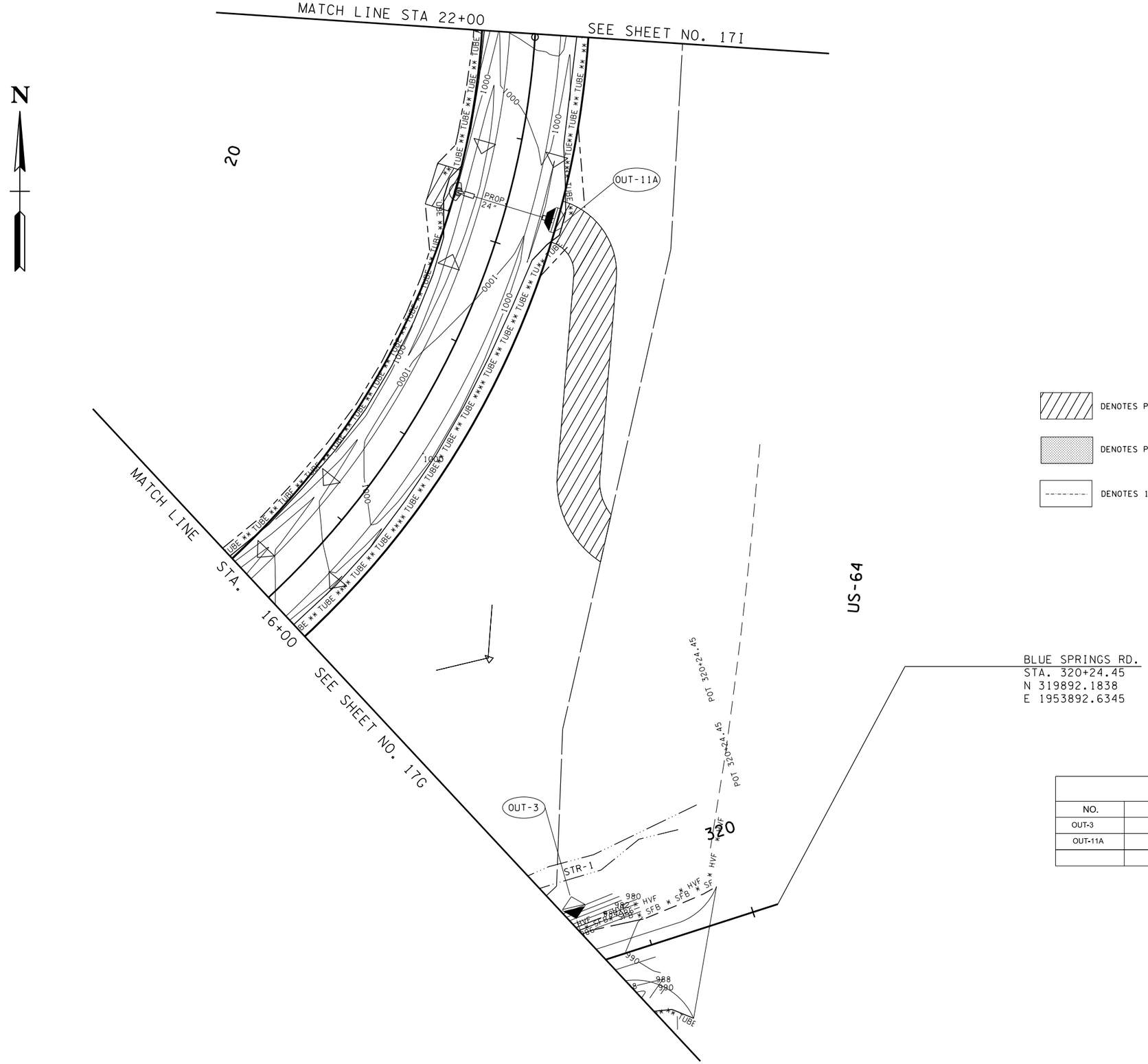
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24M
CONST.	2015	26952-3509-04	17H



BLUE SPRINGS RD.
STA. 320+24.45
N 319892.1838
E 1953892.6345

DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

UNOFFICIAL SET

NOT FOR BIDDING

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-3	1.083	
OUT-11A	1.963	

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 16+00 TO STA. 22+00

SCALE: 1"= 50'

STAGE 2 - INTERMEDIATE GRADING

26-OCT-2015 13:46
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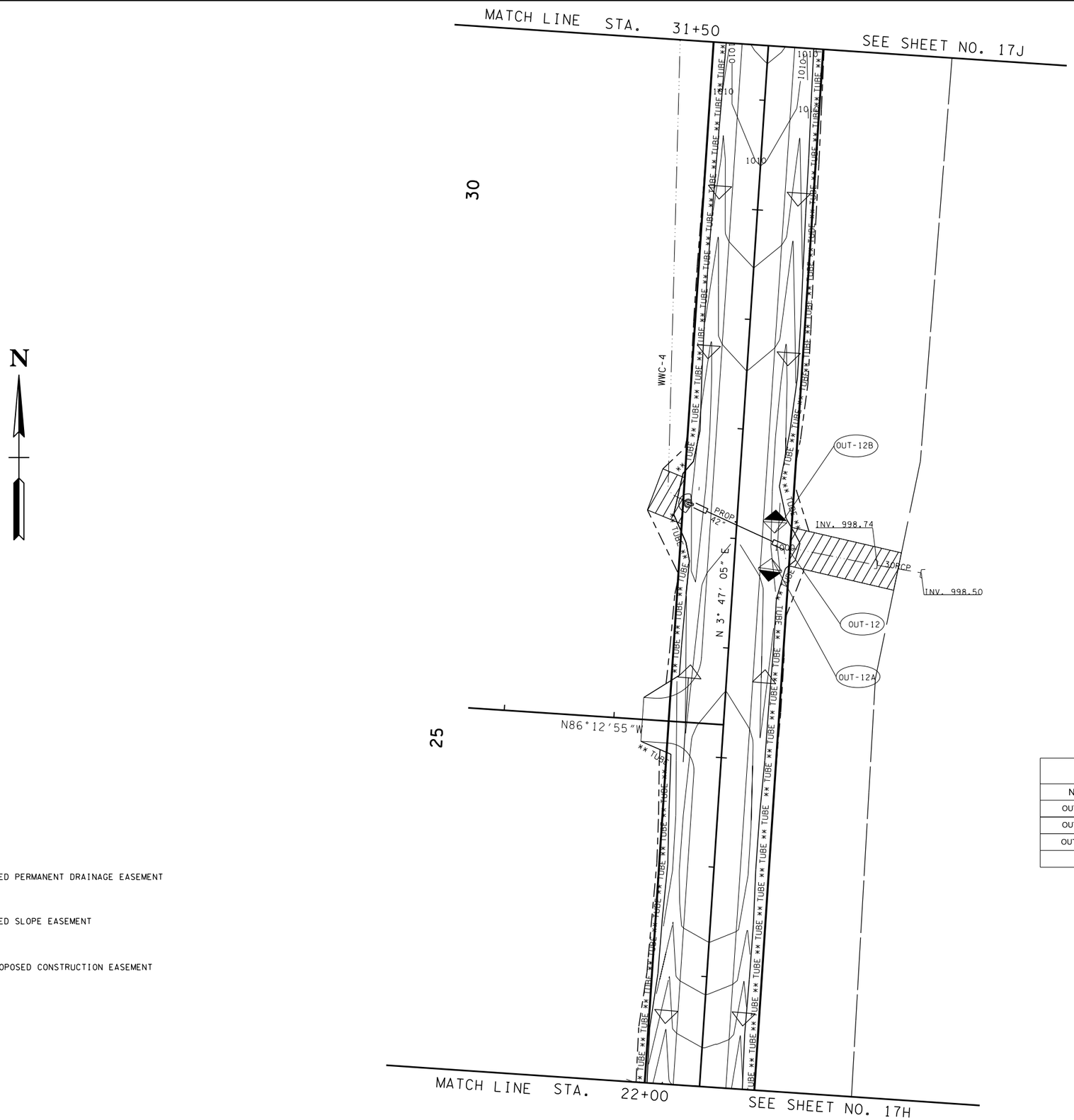
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24N
CONST.	2015	26952-3509-04	17I



DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-12	10.311	
OUT-12A	0.228	
OUT-12B	0.533	

UNOFFICIAL SET

NOT FOR BIDDING

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COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 22+00 TO STA. 31+50

SCALE: 1"= 50'

STAGE 2 - INTERMEDIATE GRADING

26-OCT-2015 13:46
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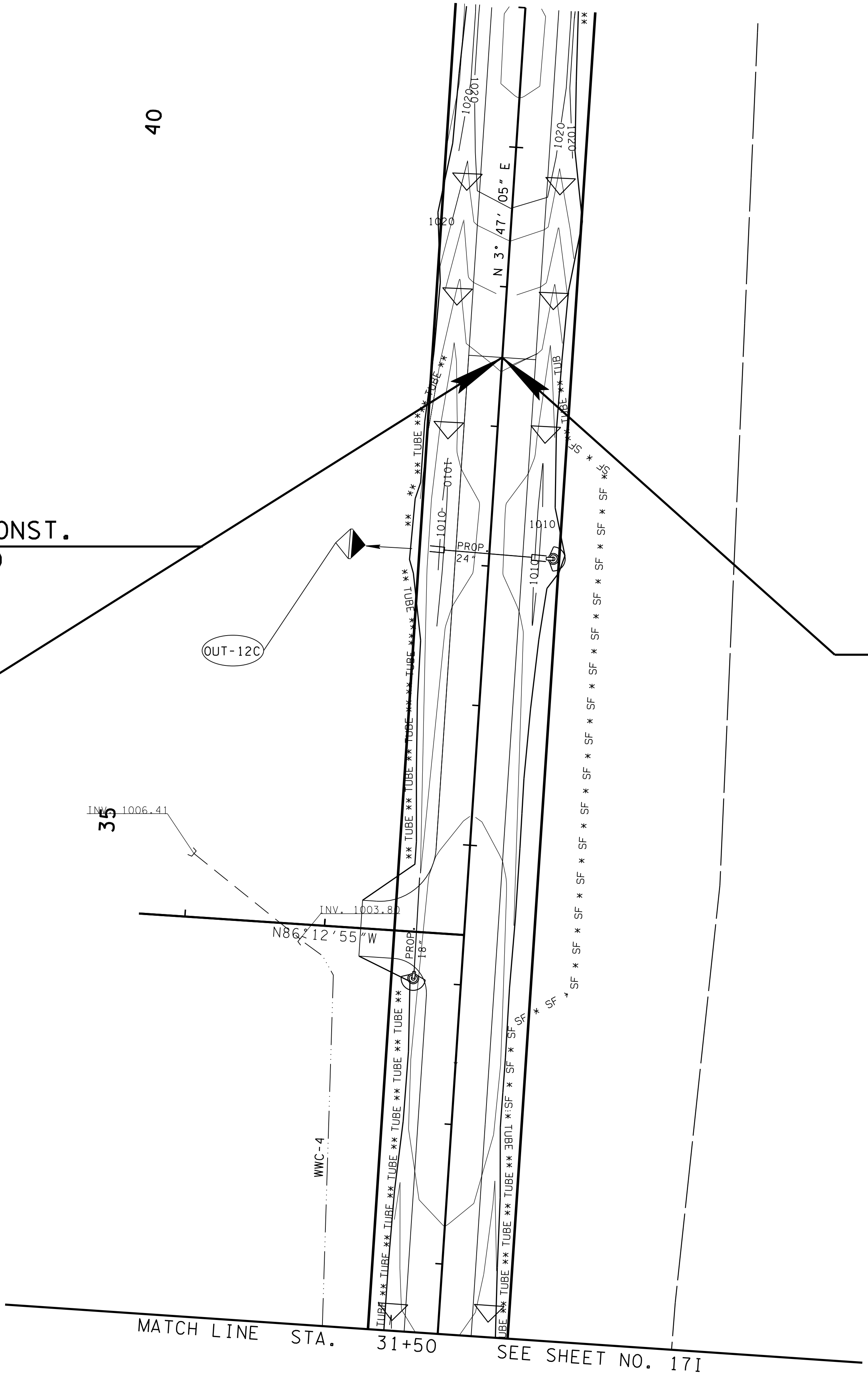
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	240
CONST.	2015	26952-3509-04	17J

REV. 09-18-2015: ADDED PROJECT PHASING STATION.

N

PHASE A
END PROJ. 26952-3509-04 CONST.
STA. 38+50.00 (ACCESS RD.)
N 322355.5977
E 1953773.8106

PHASE A
END PROJ. 26952-2509-04 R.O.W.
STA. 38+50.00 (ACCESS RD.)
N 322355.5977
E 1953773.8106



OUTFALLS		
NO.	ACRES	COMMENTS
OUT-12C	0.944	

PHASE B
BEGIN PROJ. 26952-2509-04 R.O.W.
STA. 38+50.00 (ACCESS RD.)
N 322355.5977
E 1953773.8106

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 106430 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 31+50 TO STA. 41+00

SCALE: 1"= 50'

STAGE 2 - INTERMEDIATE GRADING

26-OCT-2015 13:46
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24U
CONST.	2015	26952-3509-04	17K

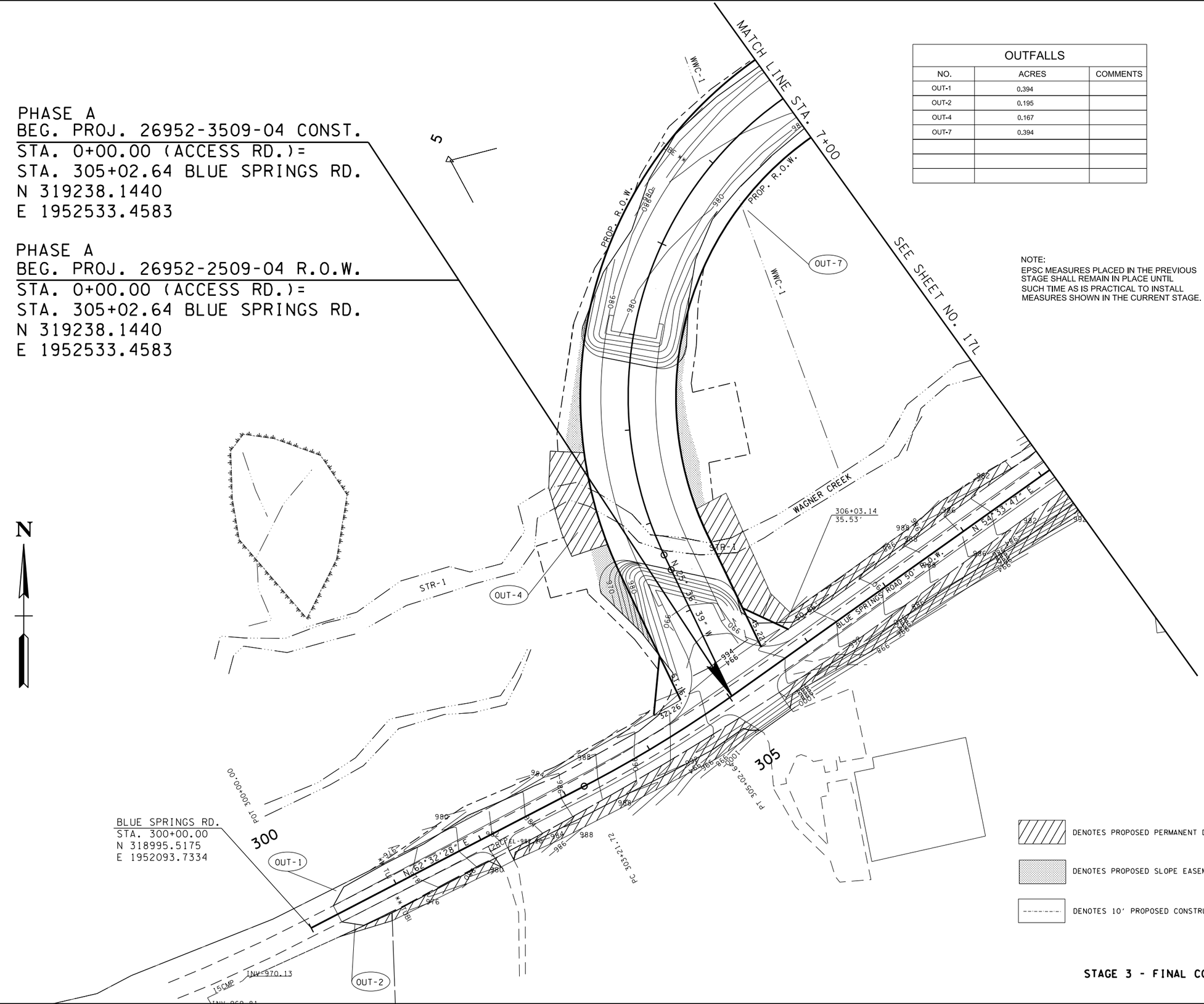
REV. 09-18-2015: LABELED PROJECT PHASING.

PHASE A
BEG. PROJ. 26952-3509-04 CONST.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583

PHASE A
BEG. PROJ. 26952-2509-04 R.O.W.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-1	0.394	
OUT-2	0.195	
OUT-4	0.167	
OUT-7	0.394	

NOTE:
EPSC MEASURES PLACED IN THE PREVIOUS STAGE SHALL REMAIN IN PLACE UNTIL SUCH TIME AS IS PRACTICAL TO INSTALL MEASURES SHOWN IN THE CURRENT STAGE.



STAGE 3 - FINAL CONSTRUCTION

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 0+00 TO STA. 7+00

SCALE: 1"= 50'

26-OCT-2015 13:46
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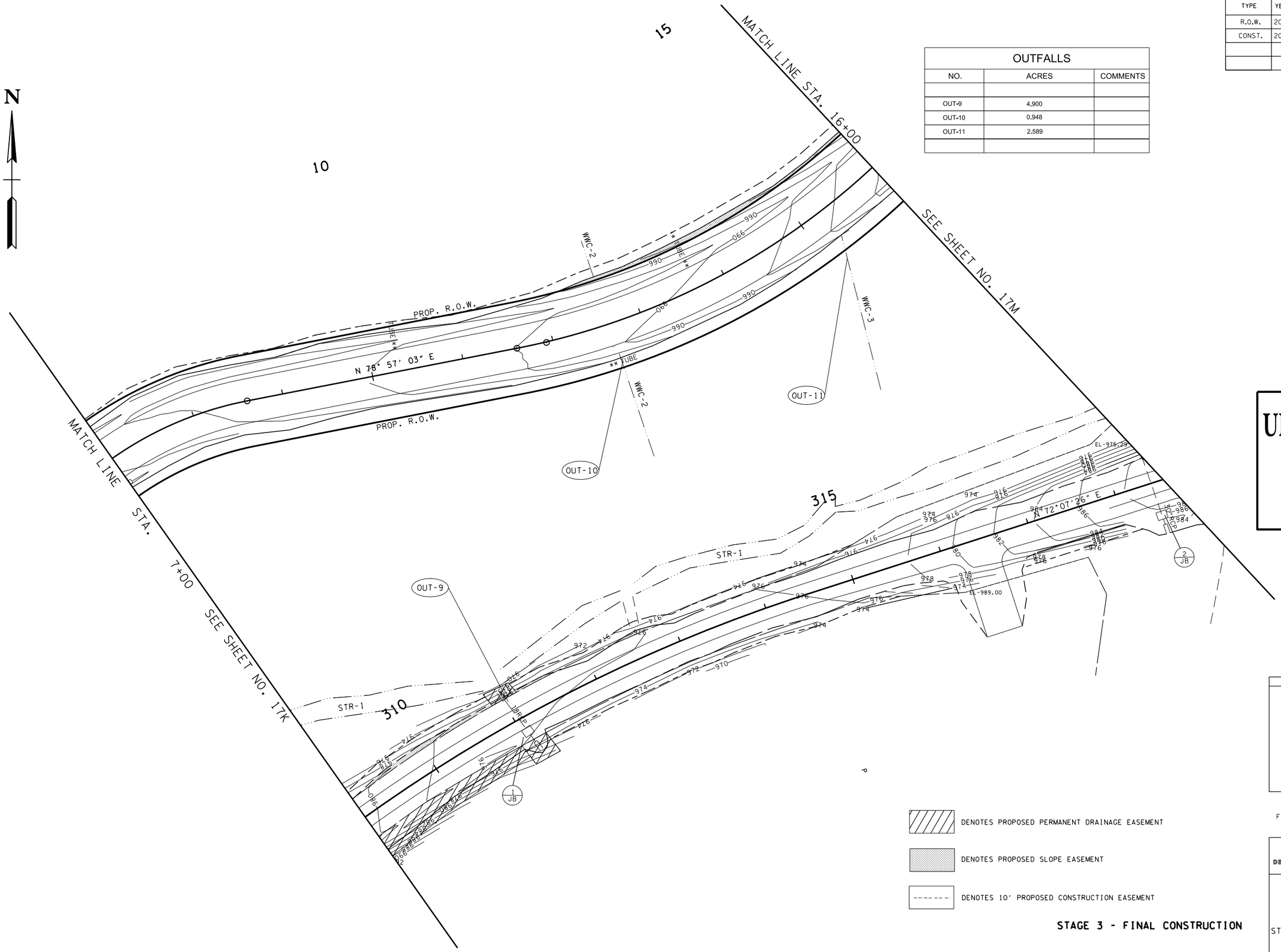
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24V
CONST.	2015	26952-3509-04	17L

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-9	4.900	
OUT-10	0.948	
OUT-11	2.589	



DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

STAGE 3 - FINAL CONSTRUCTION

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ATAUR RAHMAN REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 106450 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 7+00 TO STA. 16+00

SCALE: 1"= 50'

26-OCT-2015 13:46
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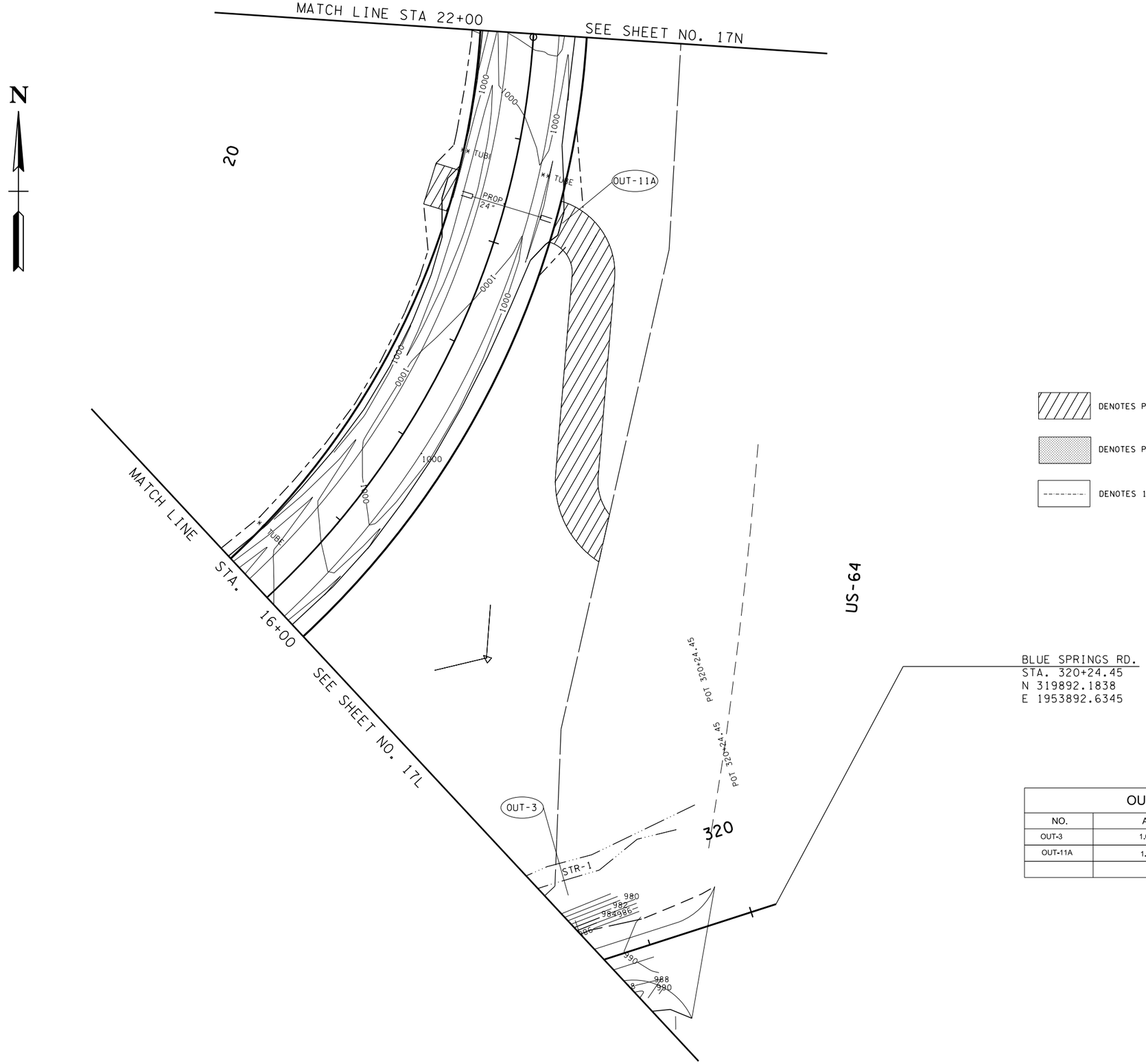
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24W
CONST.	2015	26952-3509-04	17M



BLUE SPRINGS RD.
STA. 320+24.45
N 319892.1838
E 1953892.6345

DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-3	1.083	
OUT-11A	1.963	

UNOFFICIAL SET

NOT FOR BIDDING

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 16+00 TO STA. 22+00

SCALE: 1"= 50'

STAGE 3 - FINAL CONSTRUCTION

26-OCT-2015 13:46
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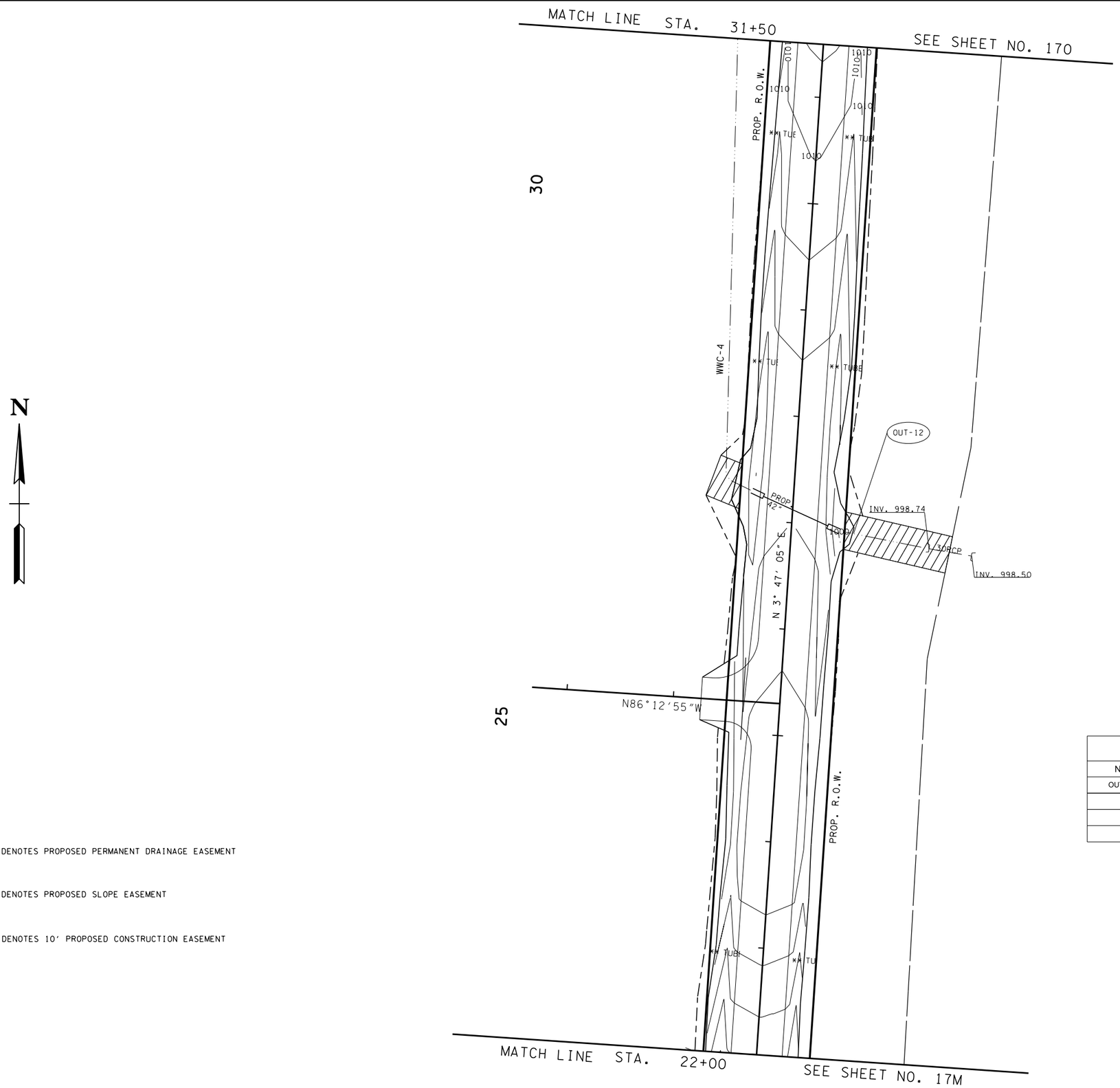
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24X
CONST.	2015	26952-3509-04	17N



DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-12	10.311	

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 22+00 TO STA. 31+50

SCALE: 1"= 50'

STAGE 3 - FINAL CONSTRUCTION

26-OCT-2015 13:46
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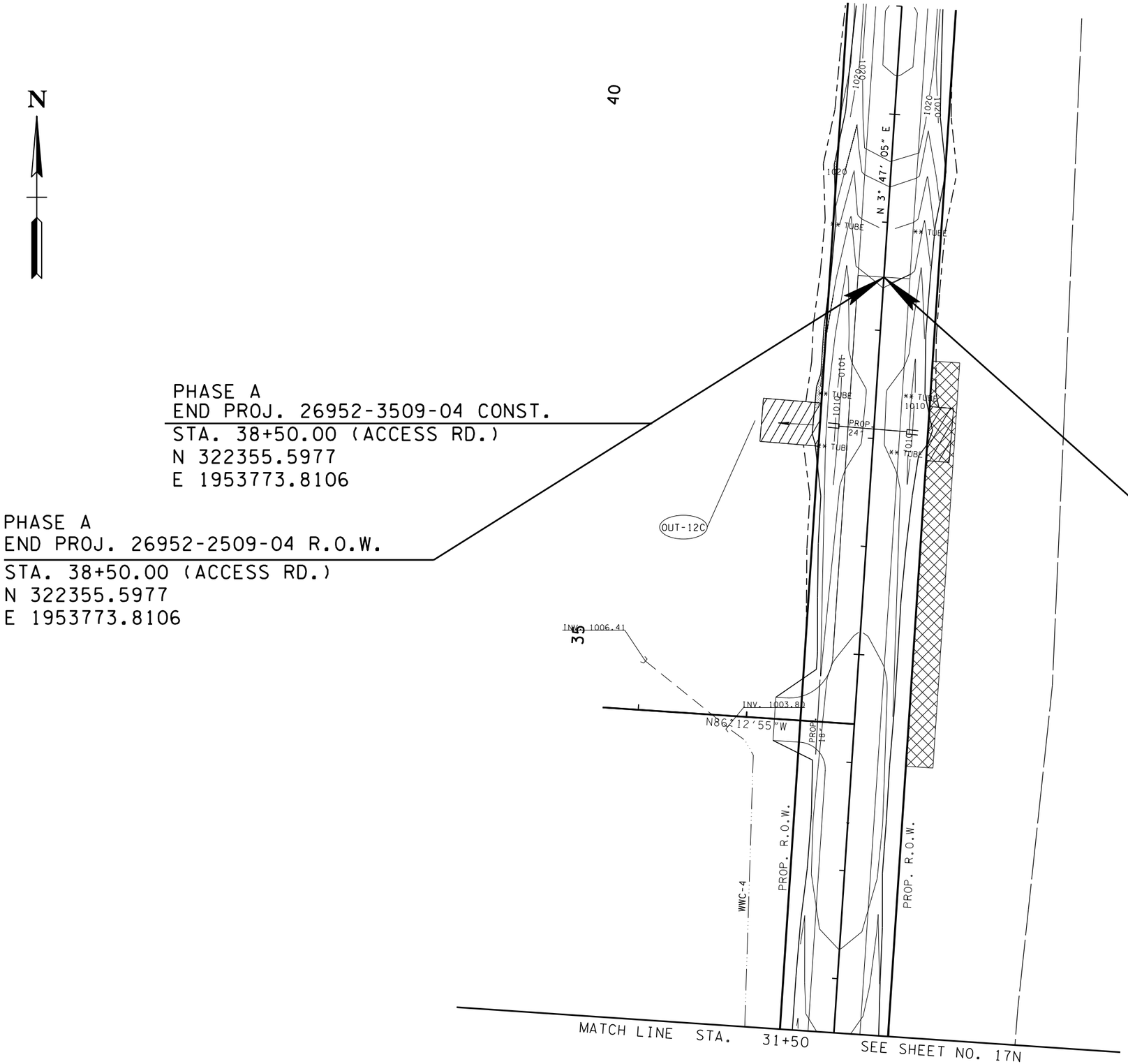
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	24Y
CONST.	2015	26952-3509-04	170

REV. 09-18-2015: ADDED PROJECT PHASING STATION.



PHASE A
END PROJ. 26952-3509-04 CONST.
STA. 38+50.00 (ACCESS RD.)
N 322355.5977
E 1953773.8106

PHASE A
END PROJ. 26952-2509-04 R.O.W.
STA. 38+50.00 (ACCESS RD.)
N 322355.5977
E 1953773.8106

PHASE B
BEGIN PROJ. 26952-2509-04 R.O.W.
STA. 38+50.00 (ACCESS RD.)
N 322355.5977
E 1953773.8106

OUTFALLS		
NO.	ACRES	COMMENTS
OUT-12C	0.944	

UNOFFICIAL SET

NOT FOR BIDDING

DENOTES PROPOSED PERMANENT DRAINAGE EASEMENT

DENOTES PROPOSED SLOPE EASEMENT

DENOTES 10' PROPOSED CONSTRUCTION EASEMENT

DENOTES EASEMENT FOR SINKHOLE REPAIR

STAGE 3 - FINAL CONSTRUCTION

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN

STA. 31+50 TO STA. 41+00

SCALE: 1"= 50'

26-OCT-2015 13:46
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	18

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

   a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

   b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

   c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

   d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

   FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

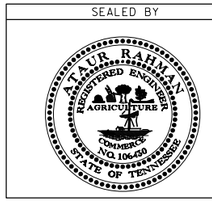
2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

26-OCT-2015 13:46
C:\D Drive\Franklin\SIA Serving Nissan\L025.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	18A

CONSTRUCTION SIGN SCHEDULE

	CODE	DESCRIPTION	DIMENSION	EACH	AREA (S.F.)
	W20-1	ROAD WORK 500 FT	36" x 36"	1	9
	W20-1	ROAD WORK 1000 FT	36" x 36"	1	9
	W20-1	ROAD WORK 1500 FT	36" x 36"	1	9
1	W20-1	ROAD WORK 500 FT	48" x 48"	2	32
1	W20-1	ROAD WORK 1000 FT	48" x 48"	2	32
1	W20-1	ROAD WORK 1500 FT	48" x 48"	2	32
	W20-3	ROAD CLOSED 500 FT	36" x 36"	1	9
	W20-3	ROAD CLOSED 1000 FT	36" x 36"	1	9
	W20-3	ROAD CLOSED 1500 FT	36" x 36"	1	9
	W20-3	ROAD CLOSED AHEAD	36" x 36"	1	9
	M4-9L	DETOUR	30" x 24"	1	5
	G20-2a	END ROAD WORK	36" x 18"	4	18
	M4-10L	DETOUR	48" x 18"	2	12
	R11-2	ROAD CLOSED	48" x 30"	3	30
	R11-3A	BLUE SPRINGS ROAD CLOSED LOCAL TRAFFIC ONLY	60" x 30"	14	175
	TOTAL				399

(1) TO BE USED ON US-64.

TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
	712-01	TRAFFIC CONTROL	1	L.S.
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	200	L.F.
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	50	EACH
	712-05.01	WARNING LIGHTS (TYPE "A")	6	EACH
	712-05.03	WARNING LIGHTS (TYPE "C")	20	EACH
	712-06	SIGNS (CONSTRUCTION)	399	S.F.
	712-07.03	TEMPORARY BARRICADES (TYPE III)	108	L.F.
1	712-08.03	ARROW BOARD (TYPE C)	2	EACH
1	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	2	EACH

NOTES

(1) LOCATION TO BE DETERMINED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
∘	FLEXIBLE DELINEATOR (GROUND MOUNTED)
	PORTABLE BARRIER RAIL
	TEMPORARY ATTENUATOR
	TEMPORARY BARRICADE (TYPE III)
A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
C	WARNING LIGHT (TYPE C) (STEADY)

UNOFFICIAL SET

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ATAUR RAHMAN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 104460 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NOTES

26-OCT-2015 13:46
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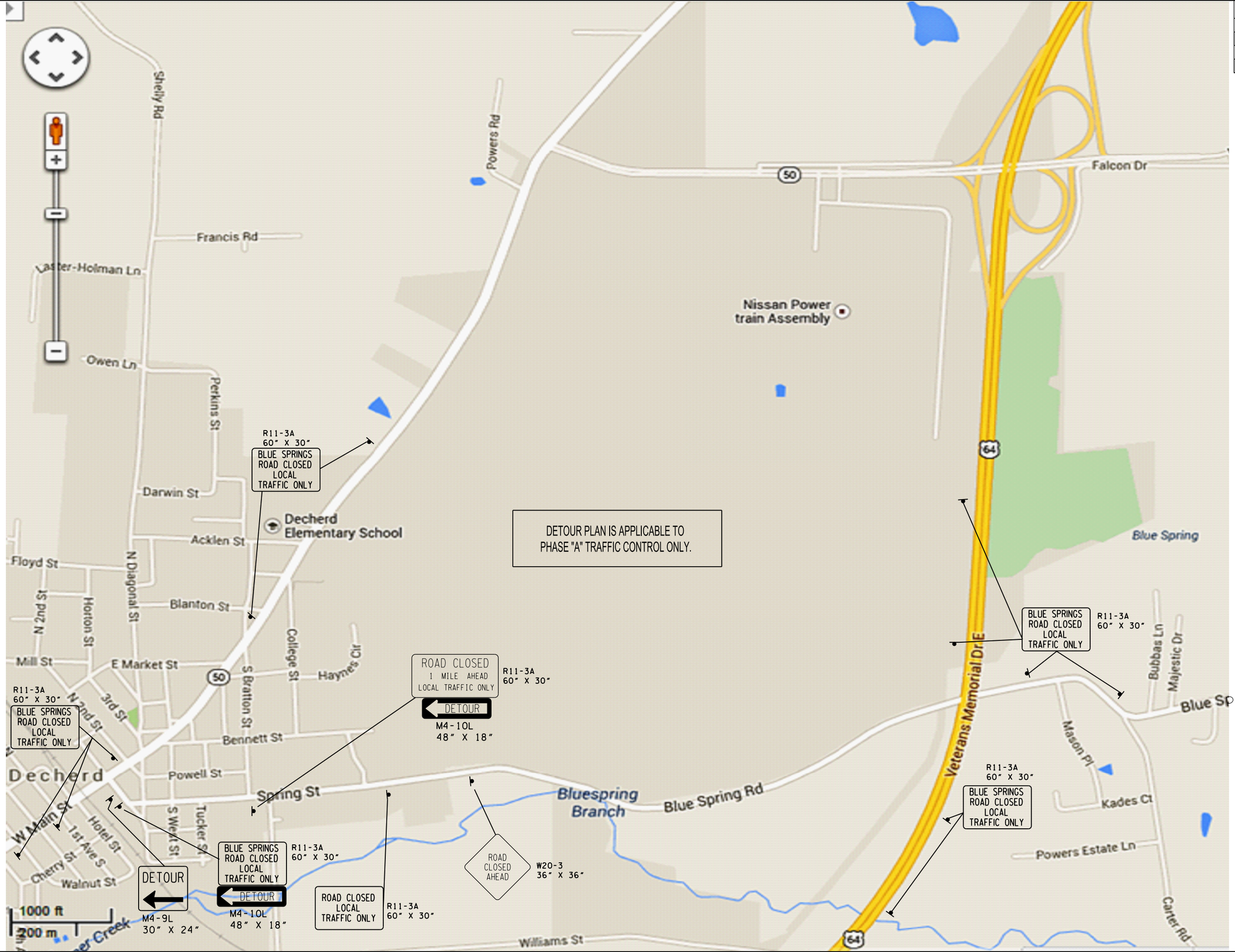
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	18B

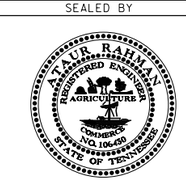


DETOUR PLAN IS APPLICABLE TO PHASE "A" TRAFFIC CONTROL ONLY.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETOUR MAP

SCALE: 5270'=1 MILE

26-OCT-2015 13:46
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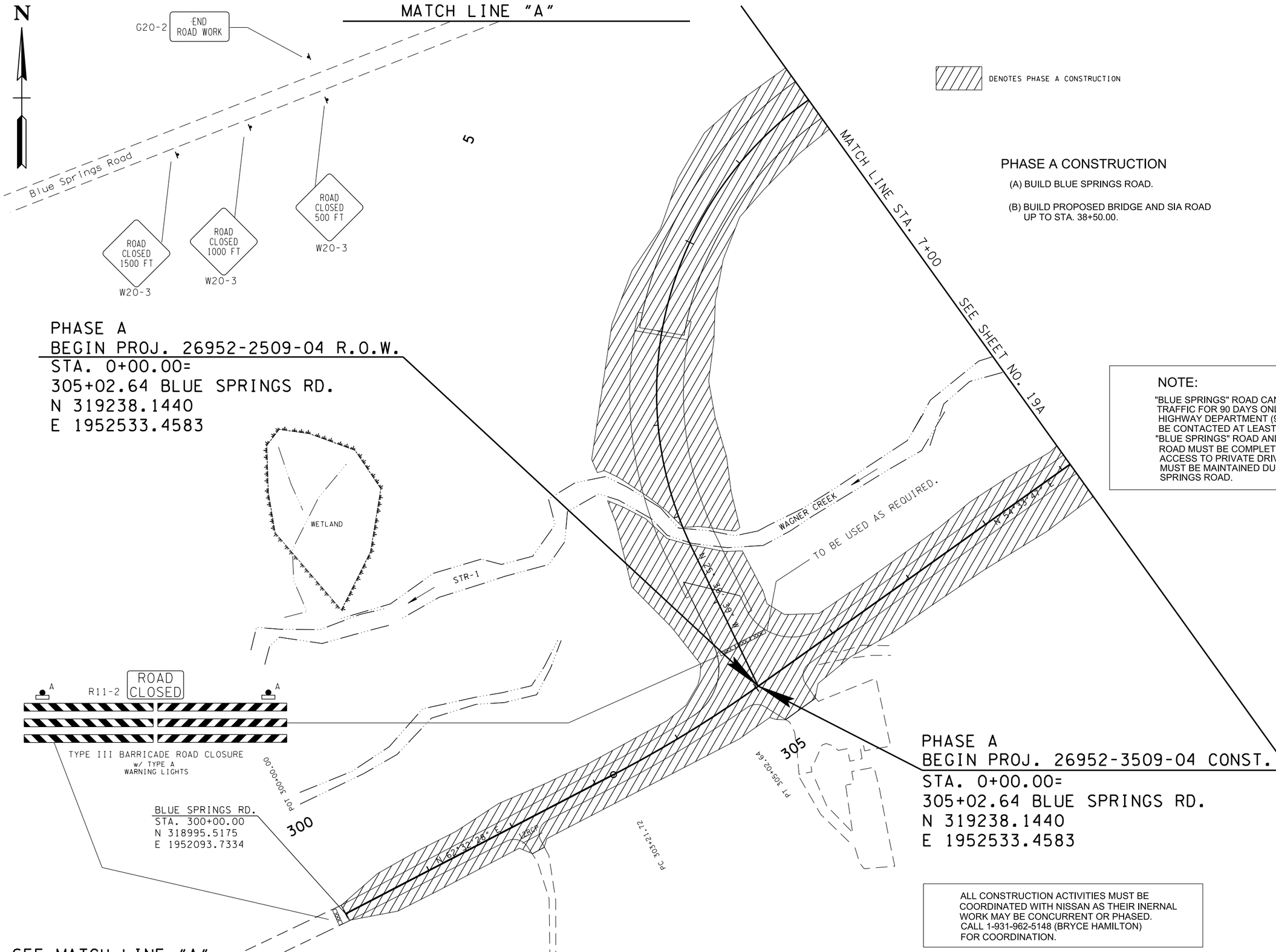
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	19



PHASE A CONSTRUCTION

(A) BUILD BLUE SPRINGS ROAD.

(B) BUILD PROPOSED BRIDGE AND SIA ROAD UP TO STA. 38+50.00.

NOTE:

"BLUE SPRINGS" ROAD CAN BE CLOSED TO TRAFFIC FOR 90 DAYS ONLY. FRANKLIN COUNTY HIGHWAY DEPARTMENT (931-580-1469) SHOULD BE CONTACTED AT LEAST 2 WEEKS BEFORE CLOSING "BLUE SPRINGS" ROAD AND ALL WORK ON THE ROAD MUST BE COMPLETED WITHIN 90 DAYS. ACCESS TO PRIVATE DRIVES AND BUSINESSES MUST BE MAINTAINED DURING WORK ON BLUE SPRINGS ROAD.

UNOFFICIAL SET

NOT FOR BIDDING

ALL CONSTRUCTION ACTIVITIES MUST BE COORDINATED WITH NISSAN AS THEIR INERNAL WORK MAY BE CONCURRENT OR PHASED. CALL 1-931-962-5148 (BRYCE HAMILTON) FOR COORDINATION.

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ALAUR RAHMAN REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 106450 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE "A"
STA. 0+00 TO STA. 7+00
SCALE: 1"= 50'

26-OCT-2015 13:47
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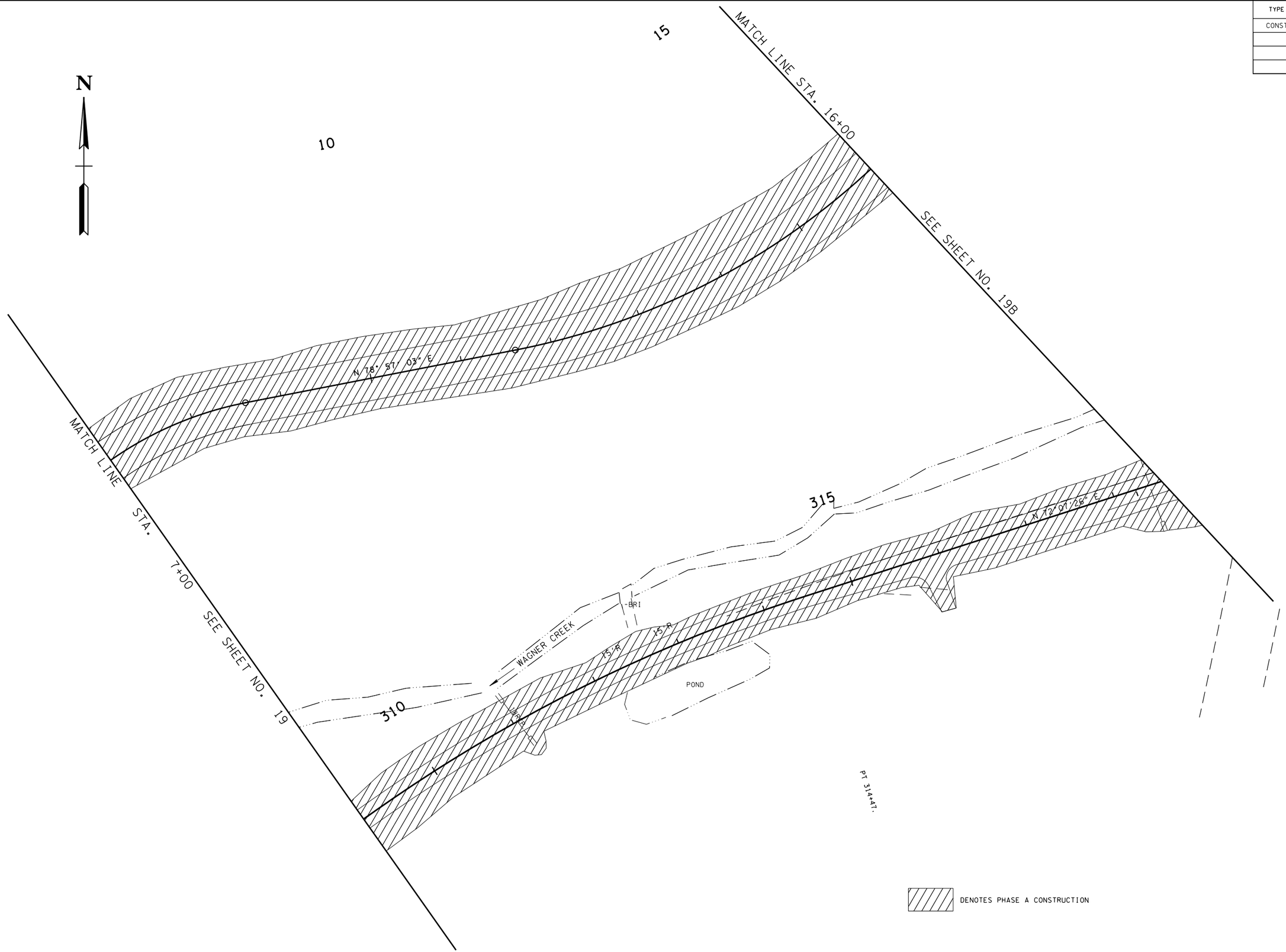
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	19A



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ATAUR RAHMAN
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE "A"

STA. 07+00 TO STA. 16+00

SCALE: 1"= 50'

26-OCT-2015 13:47
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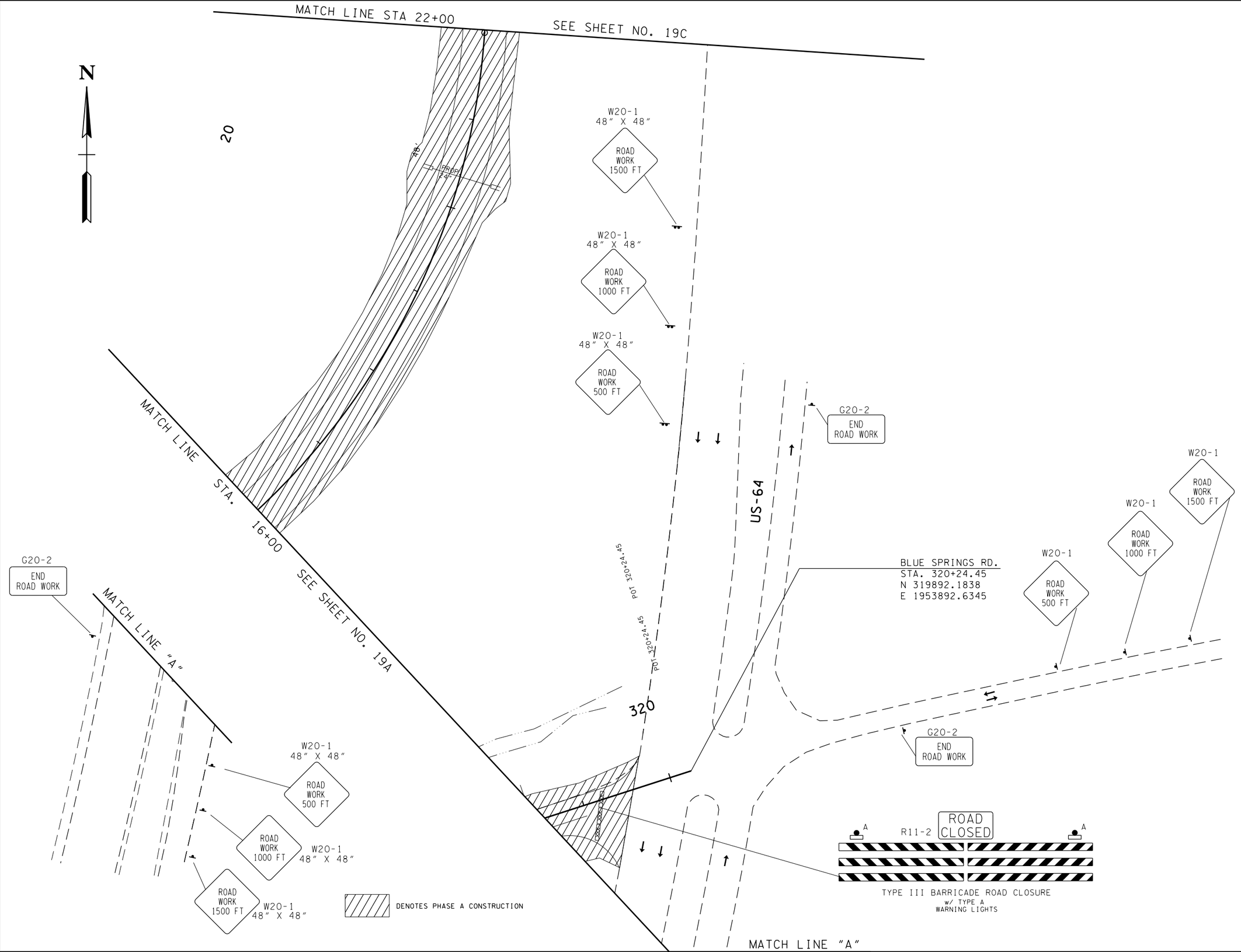
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	19B



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE "A"

STA. 16+00 TO STA. 22+00

SCALE: 1"= 50'

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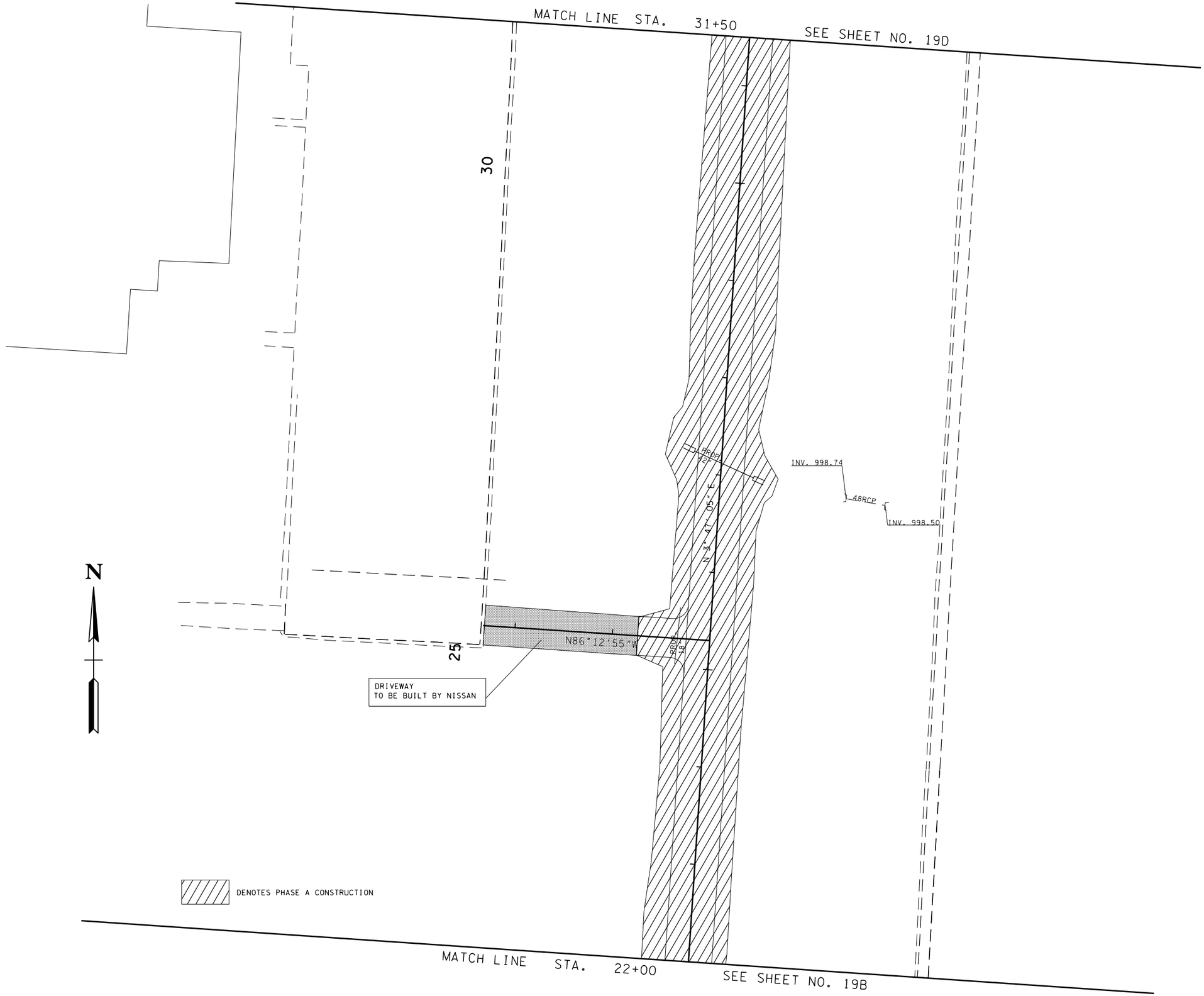
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	19C



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COMMERCE
NO. 100,000
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE "A"

STA. 22+00 TO STA. 31+50

SCALE: 1"= 50'

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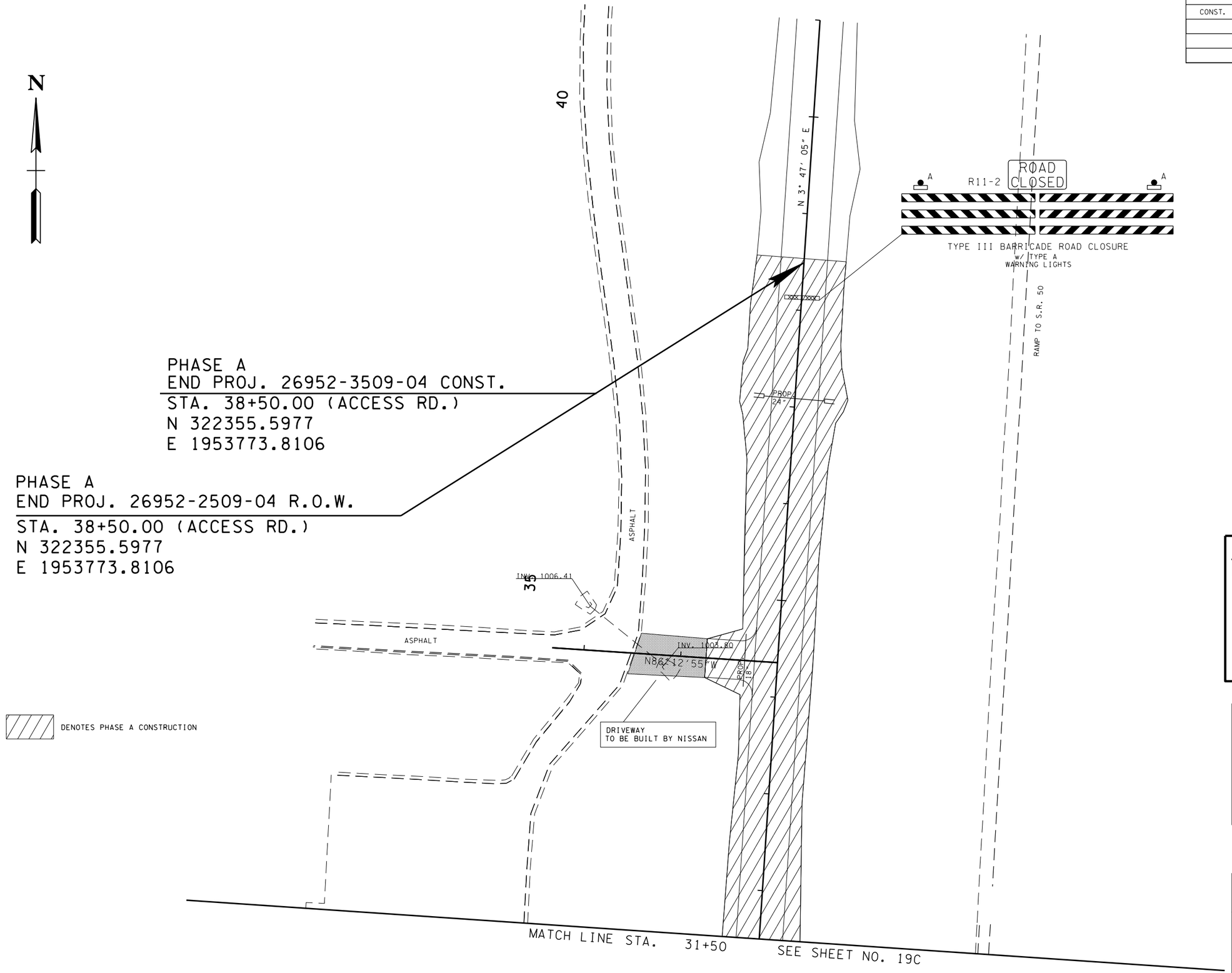
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	19D



UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE "A"

STA. 31+50 TO STA. 41+00

SCALE: 1"= 50'

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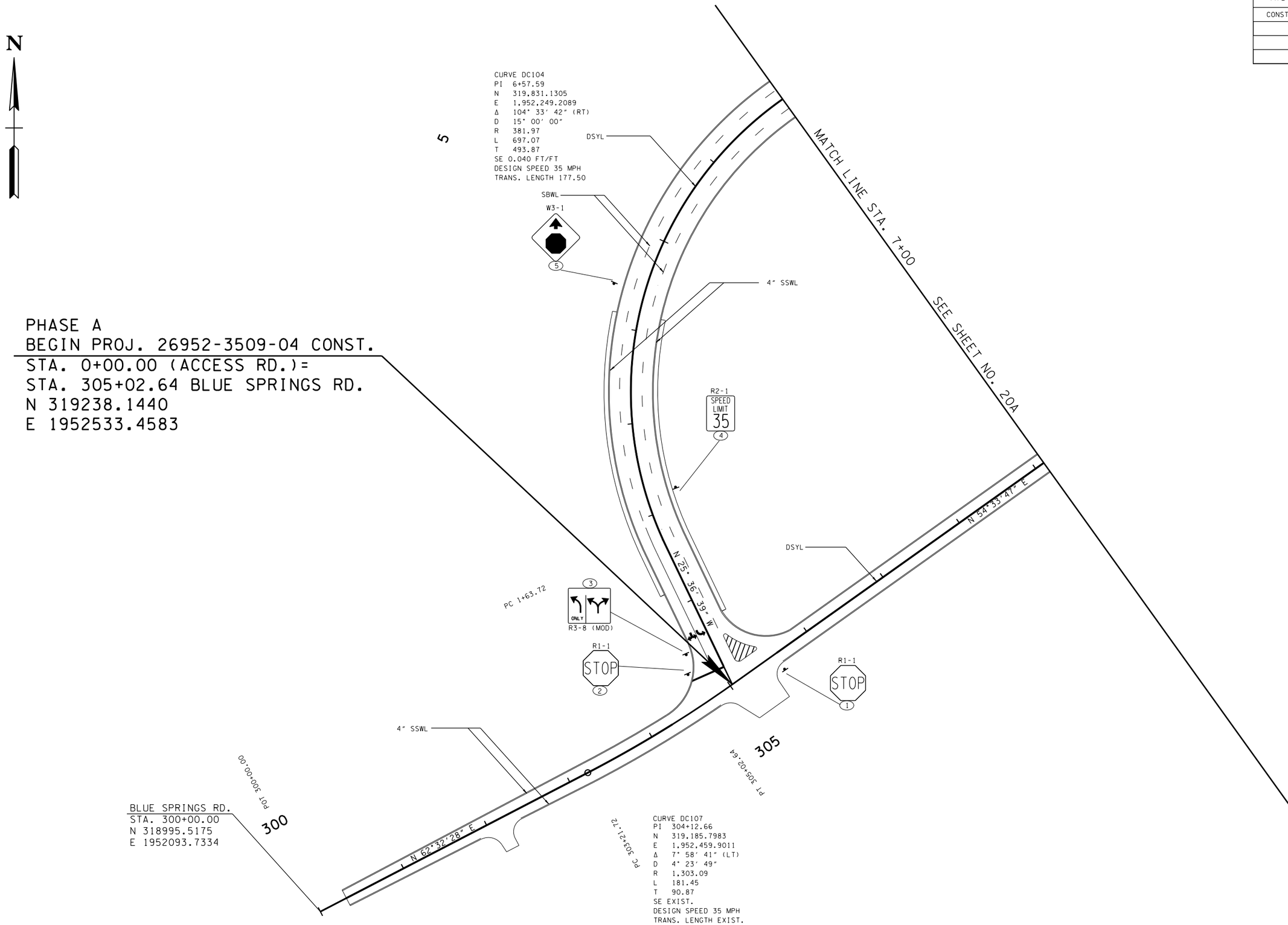
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	20



PHASE A
BEGIN PROJ. 26952-3509-04 CONST.
STA. 0+00.00 (ACCESS RD.)=
STA. 305+02.64 BLUE SPRINGS RD.
N 319238.1440
E 1952533.4583

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 00+00 TO STA. 7+00

SCALE: 1"= 50'

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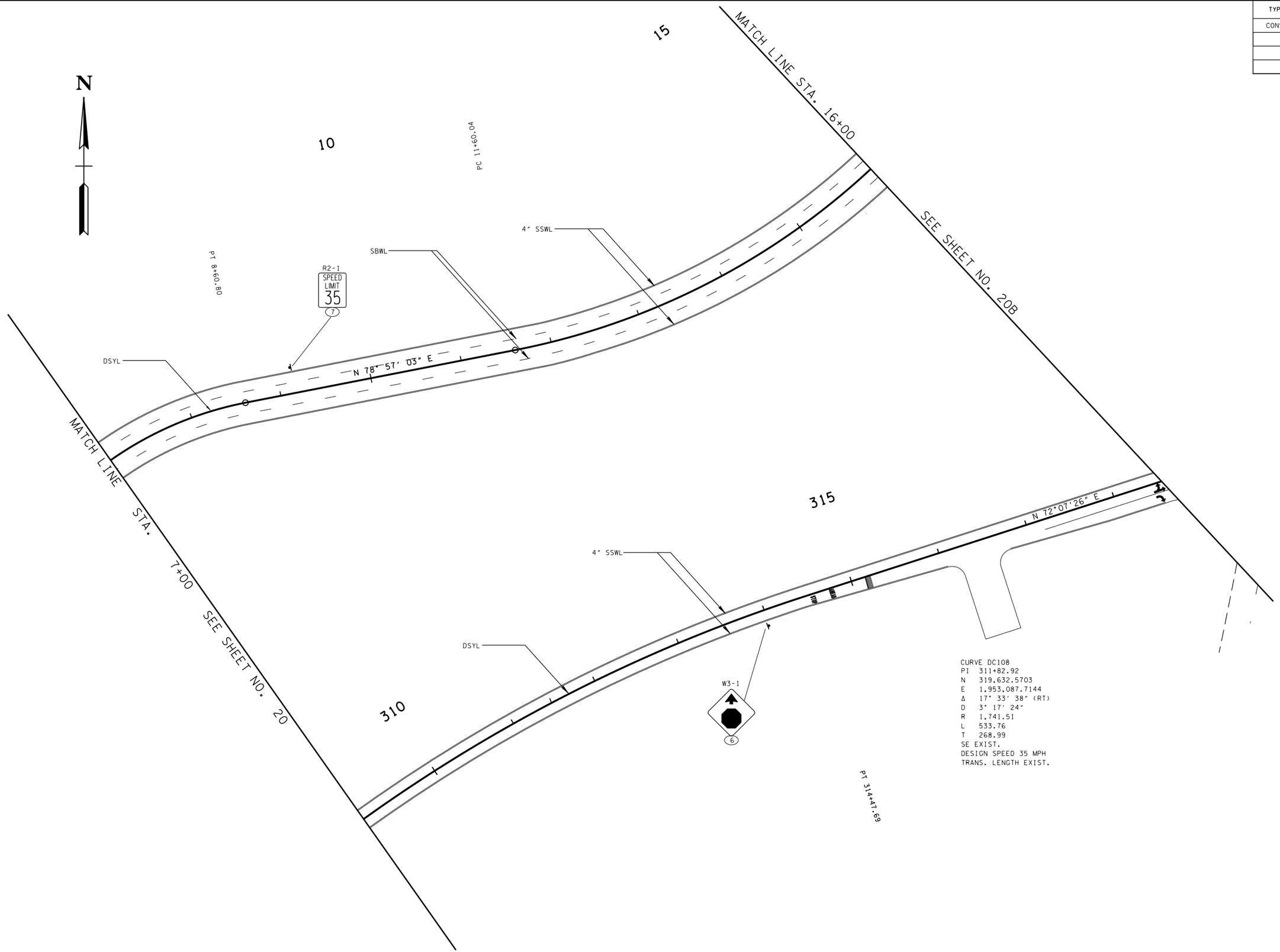
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	20A



CURVE DC108
PI 311+82.92
N 319,632.5703
E 1,953,087.7144
Δ 17° 33' 38" (RT)
D 3° 17' 24"
R 1,741.51
L 533.76
T 268.99
SE EXIST.
DESIGN SPEED 35 MPH
TRANS. LENGTH EXIST.

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 7+00 TO STA. 16+00

SCALE: 1"= 50'

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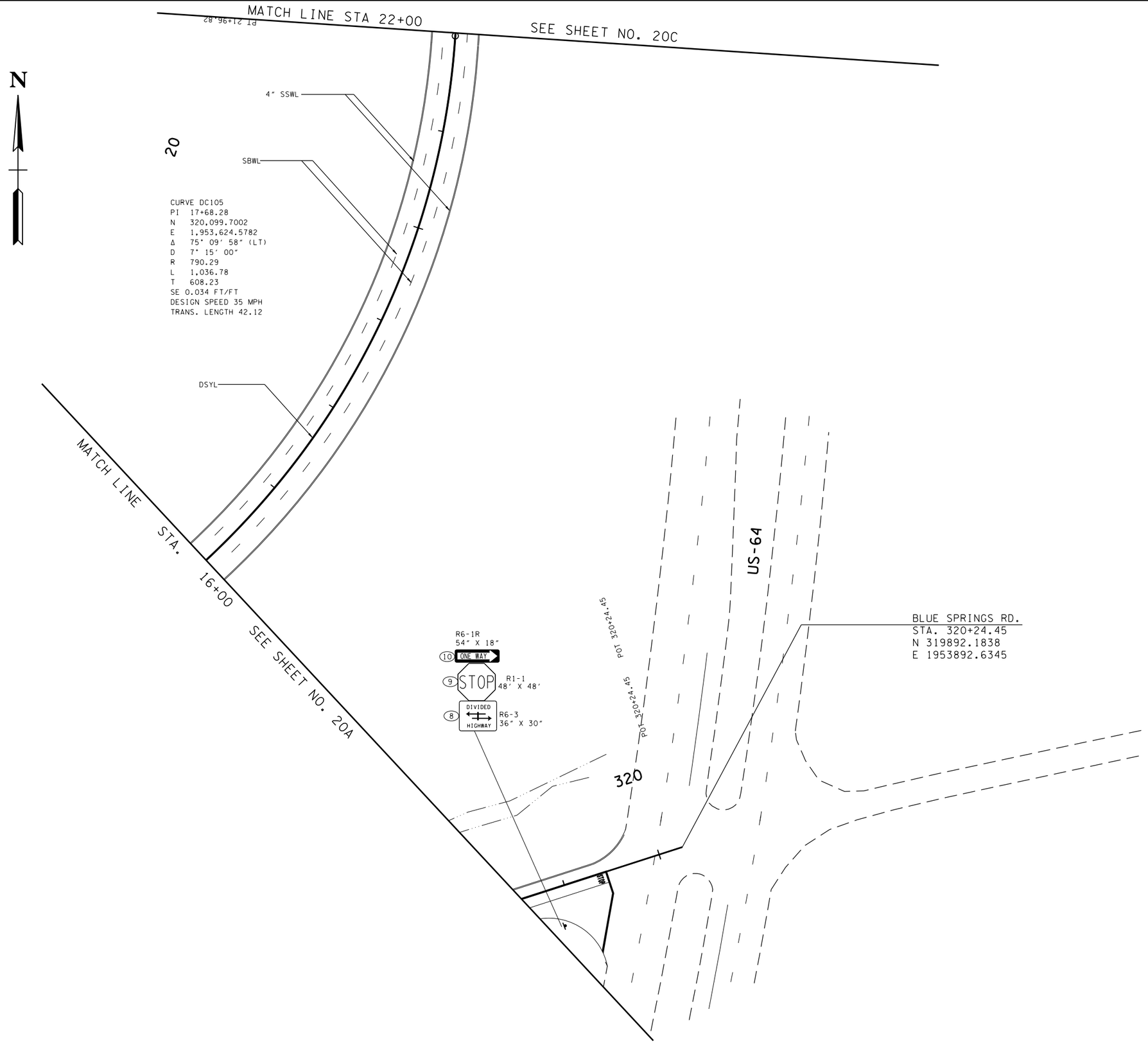
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	20B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 16+00 TO STA. 22+00

SCALE: 1"= 50'

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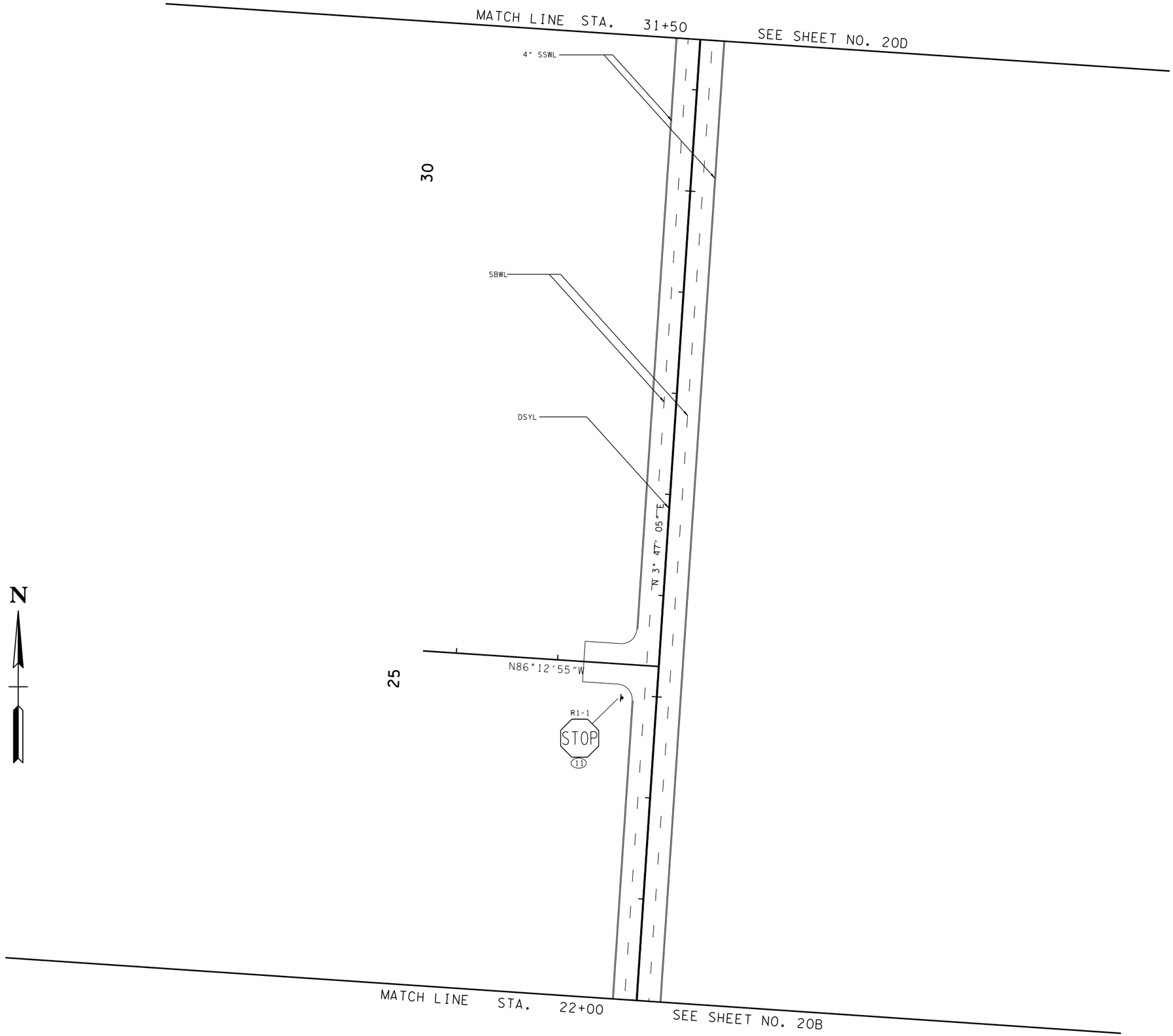
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	20C



UNOFFICIAL SET

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COORDINATES ARE NAD/B3(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 22+00 TO STA. 31+50

SCALE: 1"= 50'

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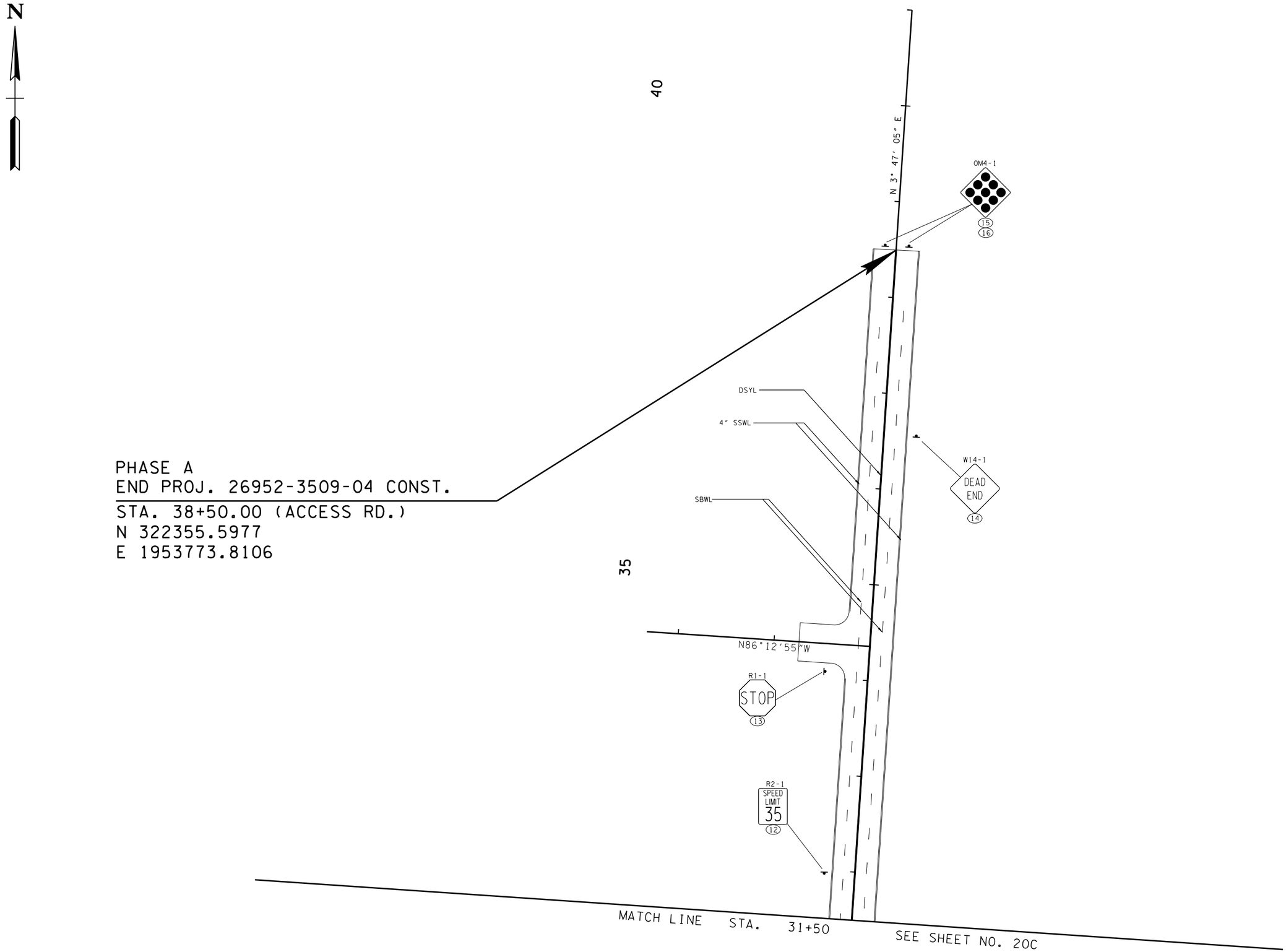
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	20D



PHASE A
END PROJ. 26952-3509-04 CONST.
STA. 38+50.00 (ACCESS RD.)
N 322355.5977
E 1953773.8106

UNOFFICIAL SET

NOT FOR BIDDING

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ALAUR RAHMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106450
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 31+50 TO STA. 41+00

SCALE: 1"= 50'

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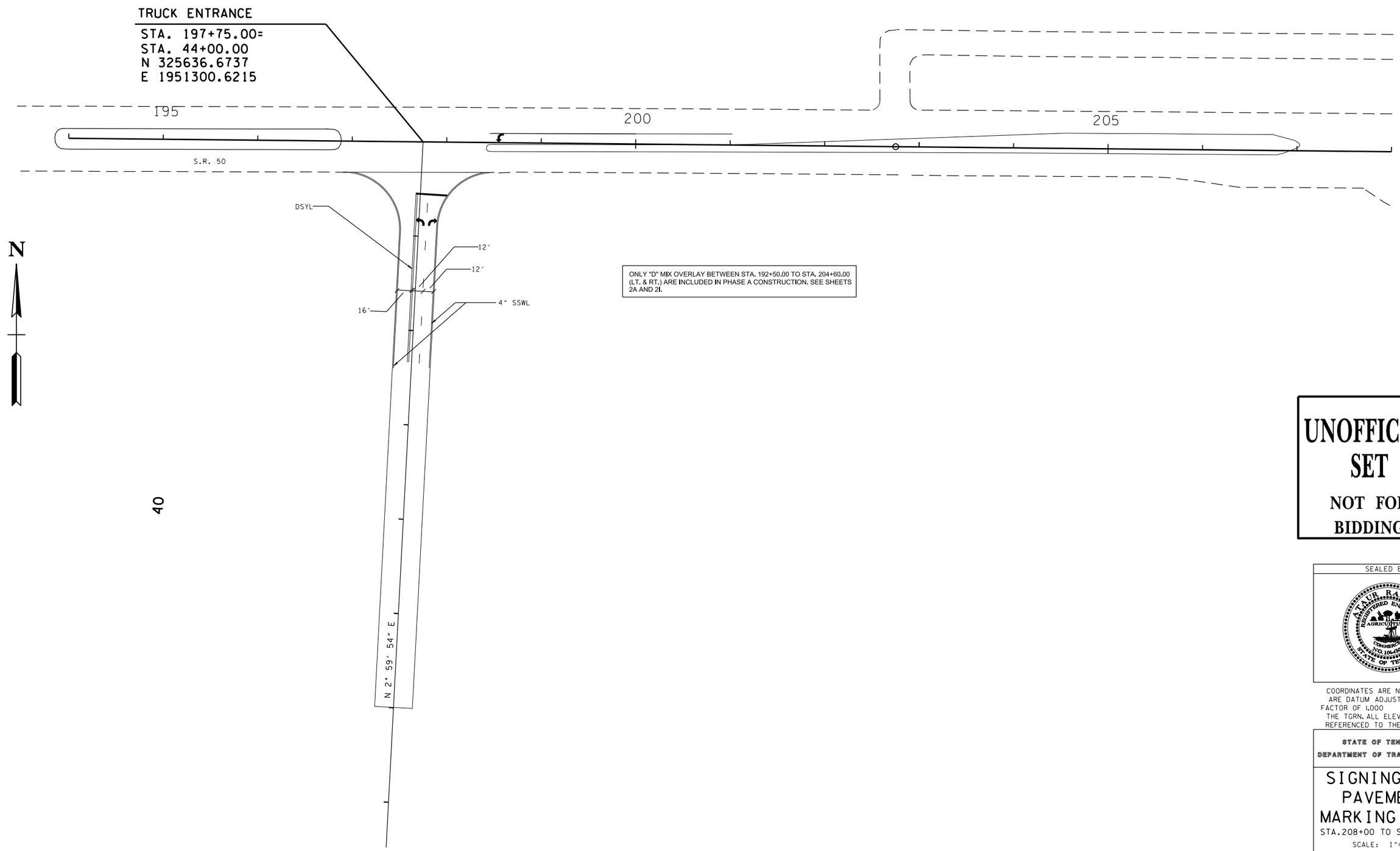
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	20E



ONLY "D" MIX OVERLAY BETWEEN STA. 192+50.00 TO STA. 204+60.00 (LT. & RT.) ARE INCLUDED IN PHASE A CONSTRUCTION. SEE SHEETS 2A AND 2I.

UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.208+00 TO STA.194+00

SCALE: 1"= 50'

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ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	26952-3509-04	21

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
1 2 11 9 13	STOP R1-1	20 20 20C 20B 20D	36"	36"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	h=12'-6"				5'-0"	
5 6	W3-1	20 20A	36"	36"									(ARROW) BLACK (STOP) RED (REF.)	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	h=13'-6"				5'-0"	
4 7 12	SPEED LIMIT 35 R2-1	20 20A 20D	36"	48"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	h=12'-6"				5'-0"	
3	ONLY R3-8 (MOD.)	20	30"	30"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	P8					5'-0"	
10	ONE WAY R6-1R	20B	54"	18"									BLACK	BLACK	0.080" SHEET ALUMINUM	P8					5'-0"	
8	DIVIDED HIGHWAY R6-3	20B	36"	30"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	P8					5'-0"	
15 16	OM4-1	20D 20D	36"	36"																		
14	DEAD END W14-1	20D	36"	36"																		

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

26-OCT-2015 13:47
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SITE PREPARATION

1. THE PROPOSED RIGHT-OF-WAY SHOULD BE CLEARED OF TREES, STUMPS, BRUSH, AND OTHER UNDESIRABLE MATERIALS. TREES, STUMPS, AND ROOTS SHOULD BE COMPLETELY GRUBBED, EXCEPT SOUND UNDISTURBED STUMPS WHICH WILL BE AT LEAST 5 FEET BELOW SUBGRADE. CLEARING AND GRUBBING SHOULD EXTEND TO THE LIMITS OF THE PROPOSED RIGHT-OF-WAY OR 10 FEET OUTSIDE THE CONSTRUCTION LIMITS, WHICHEVER IS LESS.
2. TOPSOIL SHOULD BE STRIPPED FROM THE CONSTRUCTION AREA. TOPSOIL MAY BE STOCKPILED TO DRESS SLOPE AREAS.
3. THE EXPOSED SUBGRADE IN BOTH ROADWAY AND EMBANKMENT AREAS SHOULD BE PROOFROLLED TO DELINEATE UNSTABLE AREAS. THE PROOFROLLING SHOULD BE DONE AFTER A SUITABLE PERIOD OF DRY WEATHER TO AVOID DEGRADING THE SUBGRADE. THE PROOFROLLING SHOULD BE OBSERVED AND DOCUMENTED BY TDOT'S QUALIFIED REPRESENTATIVE. PROOFROLLING SHOULD BE PERFORMED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK (MINIMUM) OR OTHER PNEUMATIC TIRED EQUIPMENT APPROVED BY TDOT'S QUALIFIED REPRESENTATIVE. THE PROOFROLLING EQUIPMENT SHOULD MAKE SEVERAL PASSES OVER EACH SECTION OF THE SUBGRADE.
4. UNSTABLE SOILS PRESENT AFTER CUTS ARE MADE OR BEFORE EMBANKMENT FILLS ARE PLACED WILL REQUIRE ROCK PAD MITIGATION. A ROCK PAD CONSISTS OF A LAYER OF GRADED SOLID ROCK (ITEM NO. 203-02.01) WITH A LAYER OF TYPE IV GEOTEXTILE FABRIC (ITEM NO. 740-10.04) PLACED ABOVE AND BELOW THE GRADED SOLID ROCK. THE ROCK PAD THICKNESS SHOULD BE 3 FEET. UNDERCUT AS REQUIRED TO ACHIEVE MINIMUM REQUIRED ROCK PAD THICKNESS.
5. SUBGRADE STABILIZATION IS ANTICIPATED BETWEEN STA. 0+40 AND STA. 33+75 (STATED STATION INTERVAL INCLUDES WOODED AREA ADJACENT TO WAGNER CREEK, CURRENT CORN FIELDS, AND PREVIOUS CORN FIELDS). IT IS ASSUMED THE AREA EXTENDING FROM STA. 0+40 TO STA. 33+75, WITH A WIDTH RANGING FROM 80 FEET TO 135 FEET (AVERAGE 95 FEET) AND A DEPTH OF 3 FEET WILL REQUIRE ROCK PAD MITIGATION.
6. SUBGRADE STABILIZATION IS ALSO ANTICIPATED BETWEEN STA. 37+75 AND STA. 56+75 AND BETWEEN STA. 61+25 AND STA. 64+75 (ADJACENT TO EXISTING SINKHOLES). IT IS ASSUMED THE AREAS BETWEEN THE STATED STATION INTERVALS, WITH AN AVERAGE WIDTH OF 90 FEET AND A DEPTH OF 3 FEET, WILL REQUIRE ROCK PAD MITIGATION.
7. WHEN PLACING AND COMPACTING NEW FILL ON SLOPING GROUND THAT IS STEEPER THAN 4H:1V AS MEASURED AT RIGHT ANGLES TO THE ROADWAY, THE NEW FILL SHALL BE CONTINUOUSLY BENCHED OVER THOSE AREAS AS THE WORK IS BROUGHT UP IN LAYERS. THE PURPOSE OF THE BENCHING IS TO REMOVE SOFT OR LOOSE SURFICIAL MATERIALS AND AVOID CREATING A WEAK ZONE AT THE INTERFACE OF THE EXISTING GROUND AND THE NEW FILL. BENCHING SHOULD BE PERFORMED IN ACCORDANCE WITH TDOT SECTION 205.03. BENCHING CAN TYPICALLY BE ACCOMPLISHED BY CUTTING INTO THE EXISTING SLOPE AT LEAST ONE BLADE WIDTH OF A BULLDOZER.
8. MATERIALS SHOULD NOT BE STOCKPILED WITHIN 10 FEET OF THE TOP OF CUT SLOPES OR EMBANKMENT SLOPES.
9. THE TOP 6 INCHES OF ROADWAY SUBGRADE IN CUT AREAS SHOULD BE SCARIFIED AND RECOMPACTED ACCORDING TO THE CRITERIA IN TDOT SECTION 207.04. THESE AREAS SHOULD BE REWORKED AFTER THE AREA IS EXCAVATED TO GRADE AND PROOFROLLED.

GENERAL GRADING NOTES

1. POSITIVE SURFACE DRAINAGE SHOULD BE MAINTAINED DURING GRADING OPERATIONS TO PREVENT WATER FROM PONDING ON THE SURFACE.
2. SURFACE WATER DRAINAGE FROM OFF-SITE AREAS SHOULD BE DIVERTED AROUND THE CONSTRUCTION AREA USING DITCHES OR BERMS.
3. THE SURFACE SHOULD BE ROLLED SMOOTH TO ENHANCE DRAINAGE IF PRECIPITATION IS EXPECTED.
4. TDOT'S QUALIFIED REPRESENTATIVE SHOULD PROVIDE RECOMMENDATIONS FOR TREATMENT IF THE SOILS BECOME EXCESSIVELY WET, EXCESSIVELY DRY, OR FROZEN.

SINKHOLE TREATMENT AND REMEDIATION

1. THE FEATURE LOCATED AT APPROX. STA. 33+75 TO STA. 37+75 SHOULD BE BRIDGED WITH 5 FEET OF GRADED SOLID ROCK (ITEM NO. 204-02.01). THE 5 FEET OF GRADED SOLID ROCK SHALL BE PLACED BELOW THE SUBGRADE ELEVATION AND TYPE IV GEOTEXTILE FABRIC (ITEM NO. 740-10.04) SHALL BE PLACED ABOVE AND BELOW GRADED SOLID ROCK. UNDERCUT SUBGRADE AS NECESSARY TO INSTALL GRADED SOLID ROCK. THIS TREATMENT SHOULD OCCUR FROM THE CENTERLINE TO 10 FEET RIGHT BEYOND THE TOE OF THE ROADWAY SLOPE.
2. THE FEATURE LOCATED AT APPROX. STA. 56+75 TO STA. 61+25 SHOULD BE BRIDGED WITH 5 FEET OF GRADED SOLID ROCK. THE 5 FEET OF GRADED SOLID ROCK SHALL BE PLACED BELOW THE SUBGRADE ELEVATION AND TYPE IV GEOTEXTILE FABRIC SHALL BE PLACED ABOVE AND BELOW GRADED SOLID ROCK. UNDERCUT SUBGRADE AS NECESSARY TO INSTALL GRADED SOLID ROCK. THIS TREATMENT SHALL OCCUR UNDERNEATH THE ENTIRE ROADWAY AND ROADWAY SLOPES FROM STA 56+75 TO STA. 61+25.
3. SINKHOLES MAY BE DISCLOSED ALONG THE ALIGNMENT DURING CLEARING AND GRUBBING OR EARTHWORK OPERATIONS. SINKHOLES, IF IDENTIFIED WITHIN THE EXISTING RIGHT-OF-WAY AND INSIDE PROPOSED CONSTRUCTION LIMITS, THAT WILL IMPACT OR BE IMPACTED BY THE PLANNED CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH TDOT STANDARD SINKHOLE TREATMENT 2.
4. IDENTIFIED FEATURES SHOULD BE PROTECTED USING PROPER EROSION CONTROL MEASURES IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE STATE OF TENNESSEE.
5. SINKHOLE REPAIRS MUST BE PERMITTED BY THE GROUNDWATER PROTECTION DIVISION OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC).
6. TO MITIGATE FUTURE SINKHOLE ACTIVITY:
   - SURFACE WATER SHOULD BE DIRECTED AWAY FROM STRUCTURAL AREAS.
   - SUBGRADE AREAS SHOULD BE THOROUGHLY PROOFROLLED AFTER CLEARING AND GRUBBING IN FILL AREAS, OR AFTER THE REQUIRED CUTS ARE PERFORMED IN CUTS AREAS.

COMPACTED FILL

1. MATERIALS GENERATED THROUGH PROJECT EXCAVATIONS WILL LIKELY CONSIST OF CLAYEY, SILTY, AND SANDY SOILS THAT MEET THE DEFINITION OF TDOT EXCAVATION CLASSIFICATION A (SOIL MATERIAL, TDOT 203.02); A DEFINITION OF THIS MATERIAL CLASSIFICATION IS PROVIDED ELSEWHERE ON THIS SHEET. THESE MATERIALS MAY BE USED AS EMBANKMENT FILL ON THE PROJECT, PROVIDED THEY ARE PLACED IN ACCORDANCE WITH TDOT 205.
2. ROCK FILL, IF USED FOR CONSTRUCTION OF EMBANKMENTS ON THIS PROJECT, SHOULD CONSIST OF GRADED SOLID ROCK (TDOT 203.02).
3. ALL EMBANKMENT FILL SHOULD BE FREE OF ORGANICS AND ROOTS.
4. DEPENDING UPON THE ACTUAL CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION, THE SOILS ENCOUNTERED IN PROJECT EXCAVATIONS MAY REQUIRE MOISTURE CONDITIONING (DRYING OR WETTING) PRIOR TO REUSE AS EMBANKMENT FILL.
5. SOME OF THE SOILS ALONG THE ALIGNMENT WERE CLASSIFIED AS AASHTO A-7-5 AND A-7-6 MATERIALS (USCS CH - FAT CLAYS AND USCS MH - ELASTIC SILTS). THESE SOILS HAVE A RELATIVELY WIDE RANGE OF MOISTURE CONTENT OVER WHICH THEY CAN ACHIEVE THE DESIRED COMPACTION BUT A RELATIVELY NARROW MOISTURE RANGE OVER WHICH THEY ARE STABLE. CAREFUL CONTROL OF MOISTURE CONTENT WILL BE REQUIRED WHEN USING THESE SOILS.

7/22/205
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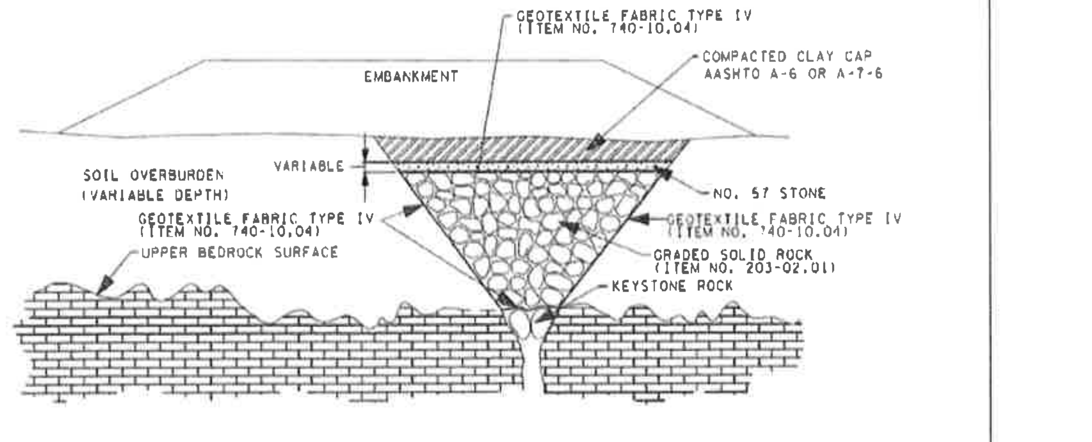


SINKHOLE TREATMENT 2 INACTIVE

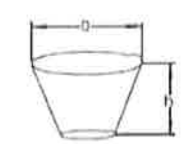
NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. ANY CHANGE IN THE NO. 57 STONE FILL OR THE CLAY CAP SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. PLACE THE GEOTEXTILE FABRIC TYPE IV ON EXCAVATED SLOPES AND BASE OF SINKHOLE.
4. BACKFILL WITH GRADED SOLID ROCK (CLASSIFICATION 203-02.01, BORROW EXCAVATION) UP TO SPECIFIED GRADE.
5. PLACE GEOTEXTILE FABRIC TYPE IV ON TOP OF GRADED SOLID ROCK. PLACE NO. 57 STONE ON TOP OF GETEXTILE FABRIC.
6. CONSTRUCT COMPACTED CLAY CAP. SOIL SHOULD BE OF TYPE AASHTO A-6 OR A-7-6.

EQUATION FOR ESTIMATING SINKHOLE VOLUME, WHERE THE SIDES OF THE SINKHOLE ARE AT 1:1 SLOPES.

$$VOL.\ 1{:}1 \approx 0.13D^3 - (0.50 \cdot h)^3$$



SINKHOLE TREATMENT 2

Boring No	Sample Depth (feet)	Location	Description	Proctor Maximum Dry Density (pcf)	Optimum Moisture (%)	Moisture Range for Compaction (%)*	LL	PI	AASHTO Classification	USCS Classification	CBR Value
B-6	0 - 5	Sta. 12+50, 34 ft L	SILT with chert, reddish-brown	103.0	21.0	18.5 - 24.5	38	12	A-6	ML	9.0
B-11	0 - 5	Sta. 39+05, 34 ft R	LEAN CLAY, red	111.0	16.5	14.5- 20.0	30	12	A-6	CL	8.3
B-18	0 - 10	Sta. 69+00, 56 ft L	SILT to ELASTIC SILT, with chert, red	91.0	30.0	26.0 - 34.0	49	16	A-7-5	ML	11

*Minimum 95 percent ASTM D698 / AASHTO T99

TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	A
CONST.	2015	26952-3509-04	26

REV. 06-05-2015: MODIFIED "SITE PREPARATION" AND "SINKHOLE TREATMENT AND REMEDIATION" NOTES.

TDOT EXCAVATION CLASSIFICATION

TYPE A - SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT END EXCAVATORS/LOADERS. THIS MATERIAL WOULD HAVE A SHRINK FACTOR AS GIVEN IN THE SHRINK FACTORS SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

GRADED SOLID ROCK (ITEM NO. 203.02-01)

GRADED SOLID ROCK (BORROW EXCAVATION) SHALL CONSIST OF THE REMOVAL AND SATISFACTORY PLACEMENT OF SOUND, NON-DEGRADABLE ROCK WITH A MAXIMUM SIZE OF 3 FEET (1 METER). AT LEAST 50 PERCENT OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1 FOOT (30 CENTIMETERS) AND 3 FEET (1 METER) IN DIAMETER AND NO GREATER THAN 10 PERCENT SHALL BE LESS THAN 2 INCHES (50 MILLIMETERS) IN DIAMETER. THE MATERIALS SHALL BE ROUGHLY EQUIDIMENSIONAL IN SHAPE. THIN, SLABBY MATERIAL WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL SCREENING PROCESS THAT PRODUCES THE REQUIRED GRADATION. WHEN THE MATERIAL IS SUBJECTED TO FIVE ALTERNATIONS OF THE SODIUM SULFATE SOUNDNESS TEST (AASHTO T 104), THE WEIGHTED PERCENTAGE OF LOSS SHALL BE NOT MORE THAN 12. THE MATERIAL SHALL BE APPROVED BY THE ENGINEER BEFORE USE.

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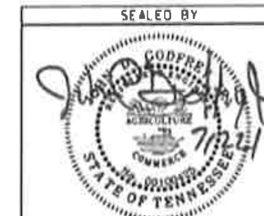
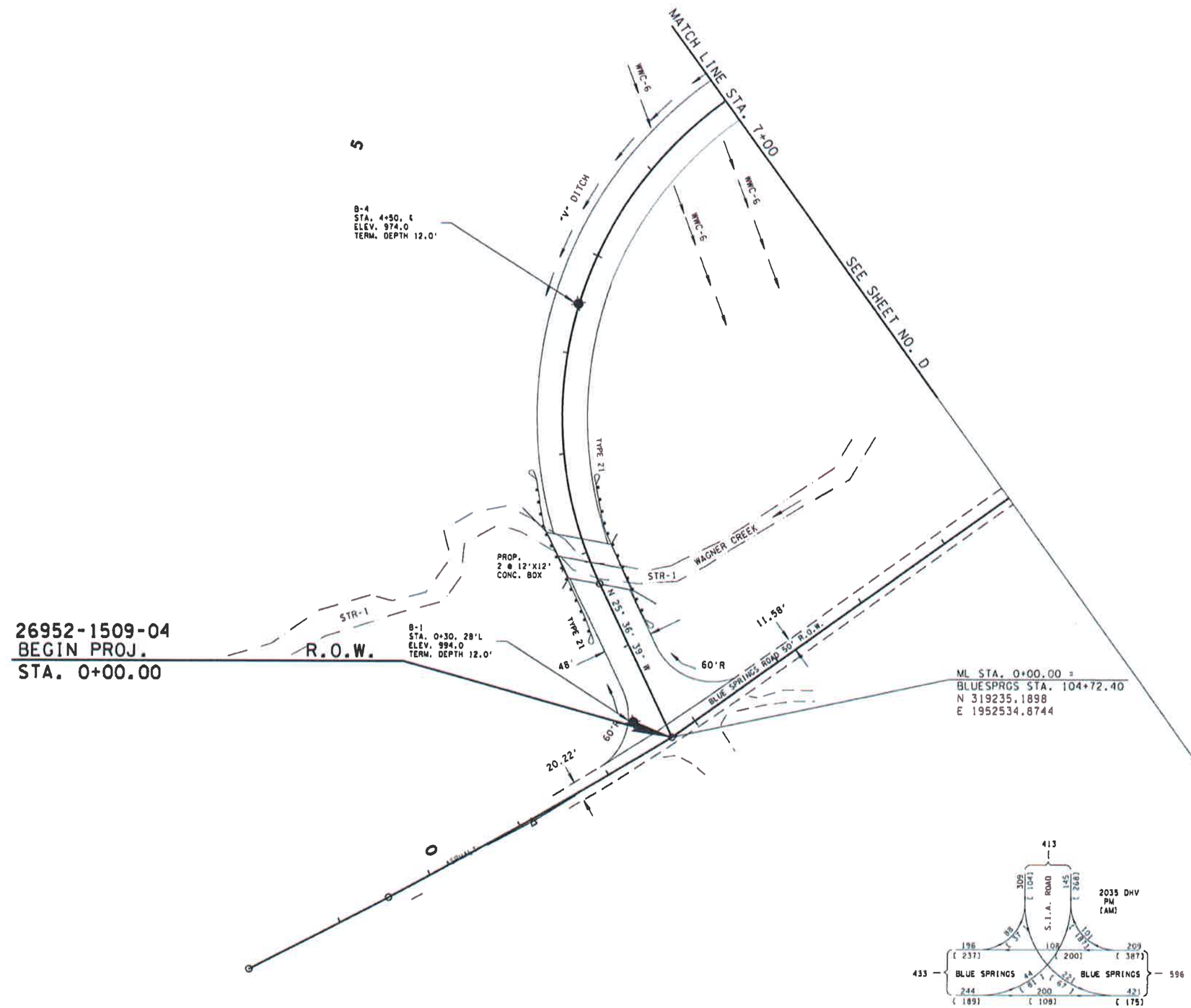


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL NOTES AND DETAILS

SCALE: NTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	8
CONST.	2015	26952-3509-04	26A



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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

STA. 0+00 TO STA. 7+00

SCALE: 1" = 50'

7/22/2015
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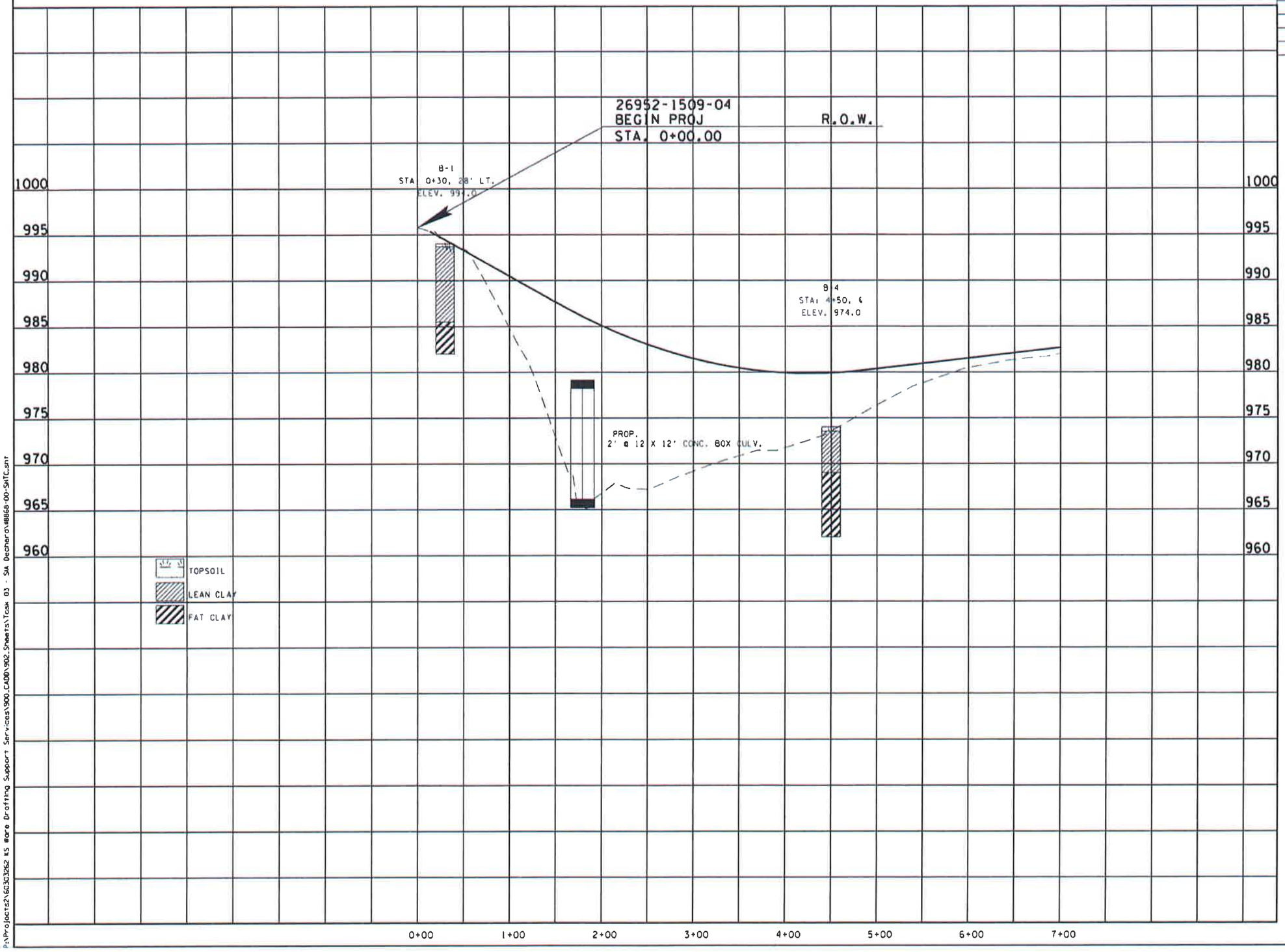
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	C
CONST.	2015	26952-3509-04	268



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SOILS PROFILE

STA. 0+00 TO STA. 7+00

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

7/22/2015
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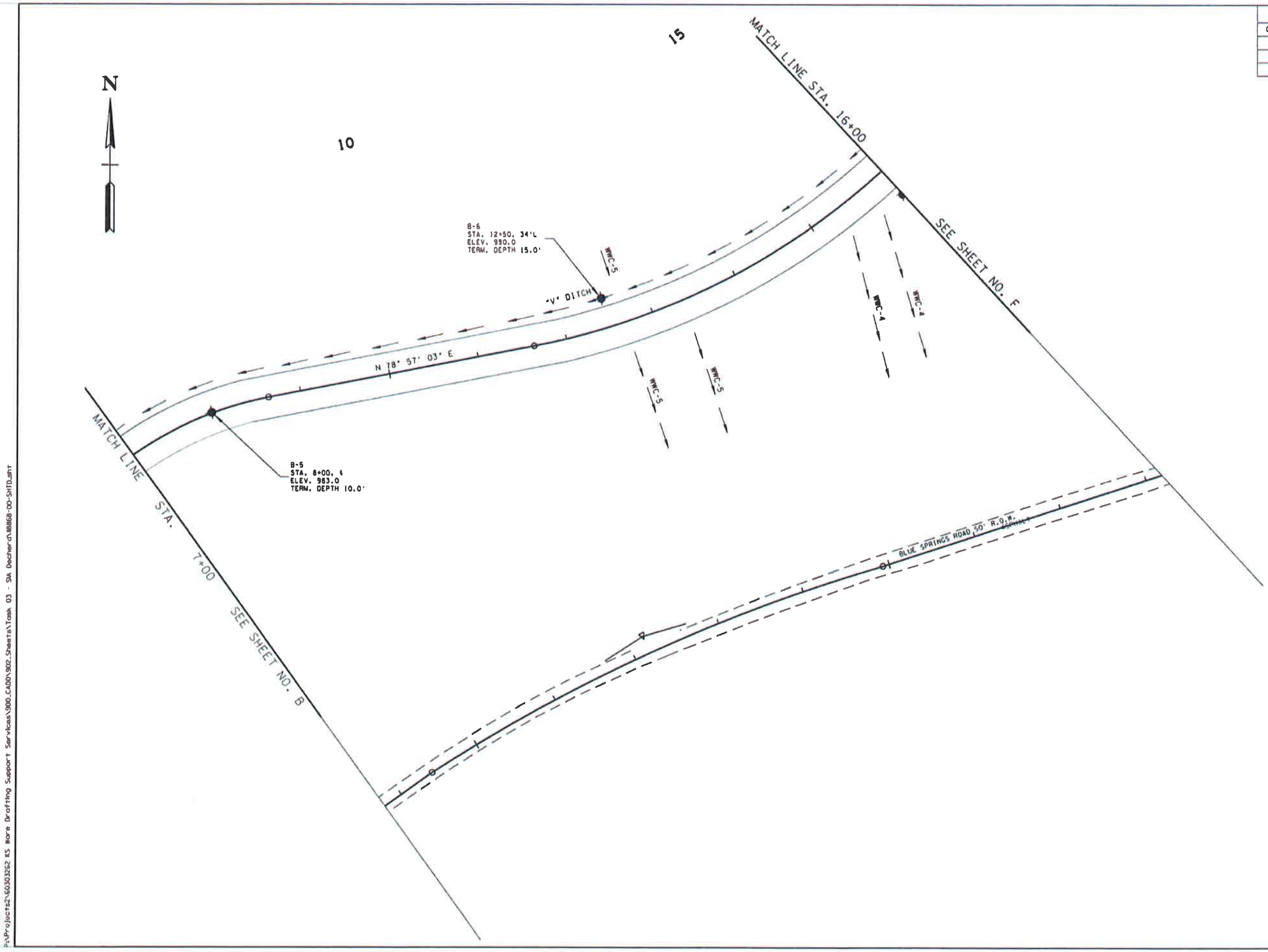
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	D
CONST.	2015	26952-3509-04	26C



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DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

STA. 7+00 TO STA. 16+00

SCALE: 1" = 50'

7/22/2015
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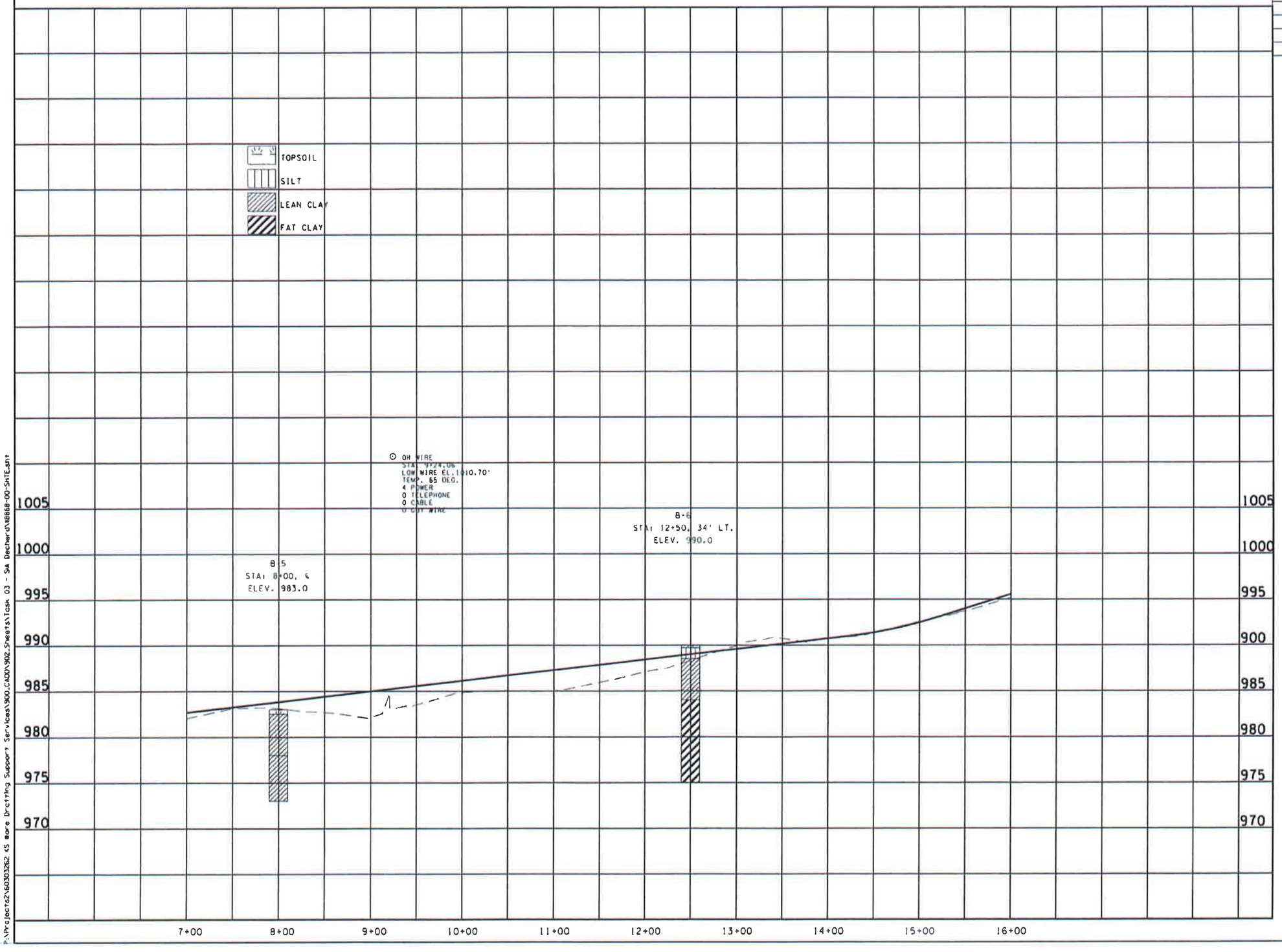
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	E
CONST.	2015	26952-3509-04	260



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DEPARTMENT OF TRANSPORTATION

SOILS PROFILE

STA. 7+00 TO STA. 16+00

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

7/22/2015
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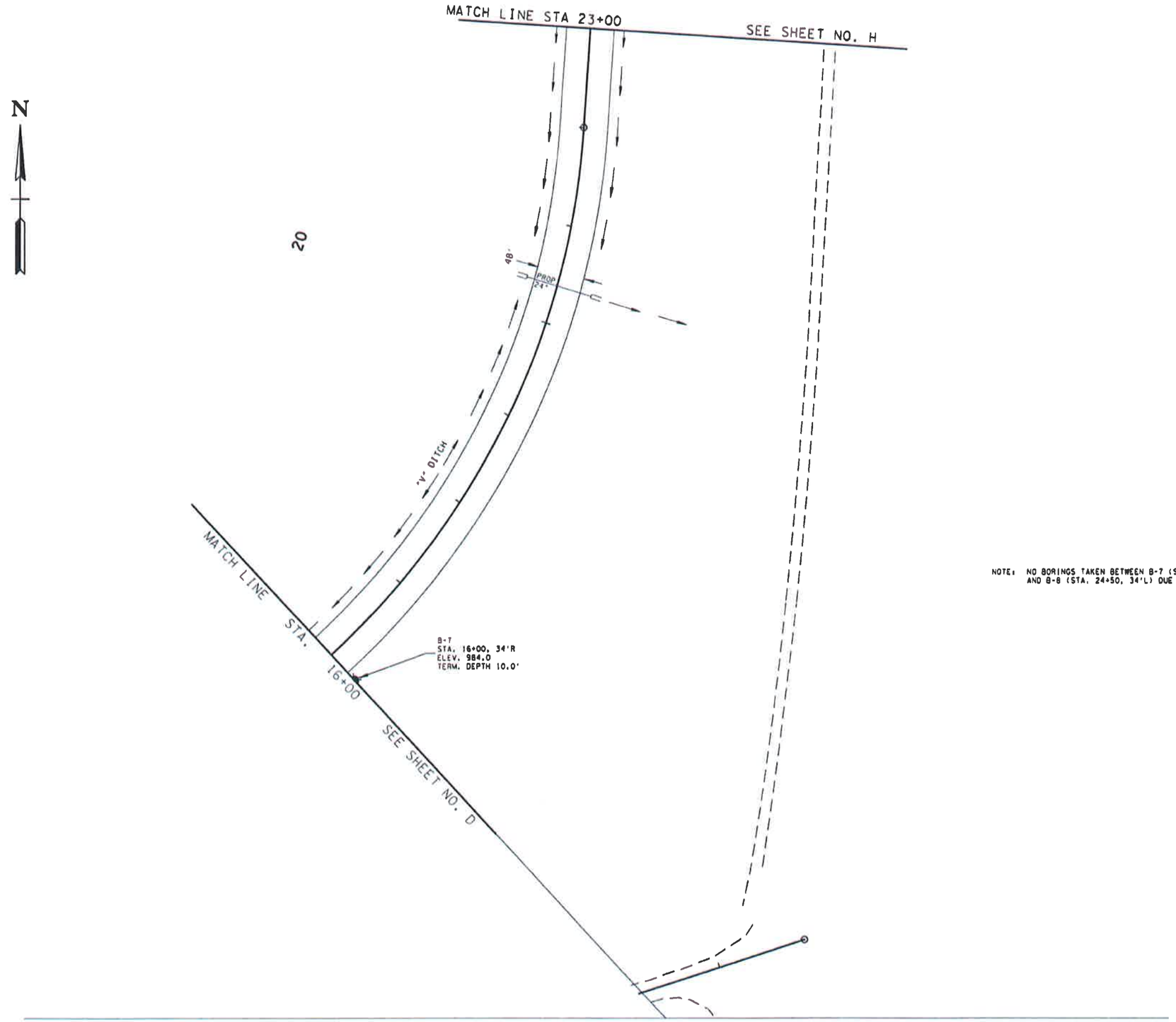
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	F
CONST.	2015	26952-3509-04	26E



NOTE: NO BORINGS TAKEN BETWEEN B-7 (STA. 16+00, 34'R) AND B-8 (STA. 24+50, 34'L) DUE TO PRESENCE OF CULTIVATED FIELD.

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DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

STA. 16+00 TO STA. 23+00

SCALE: 1" = 50'

7/22/2015
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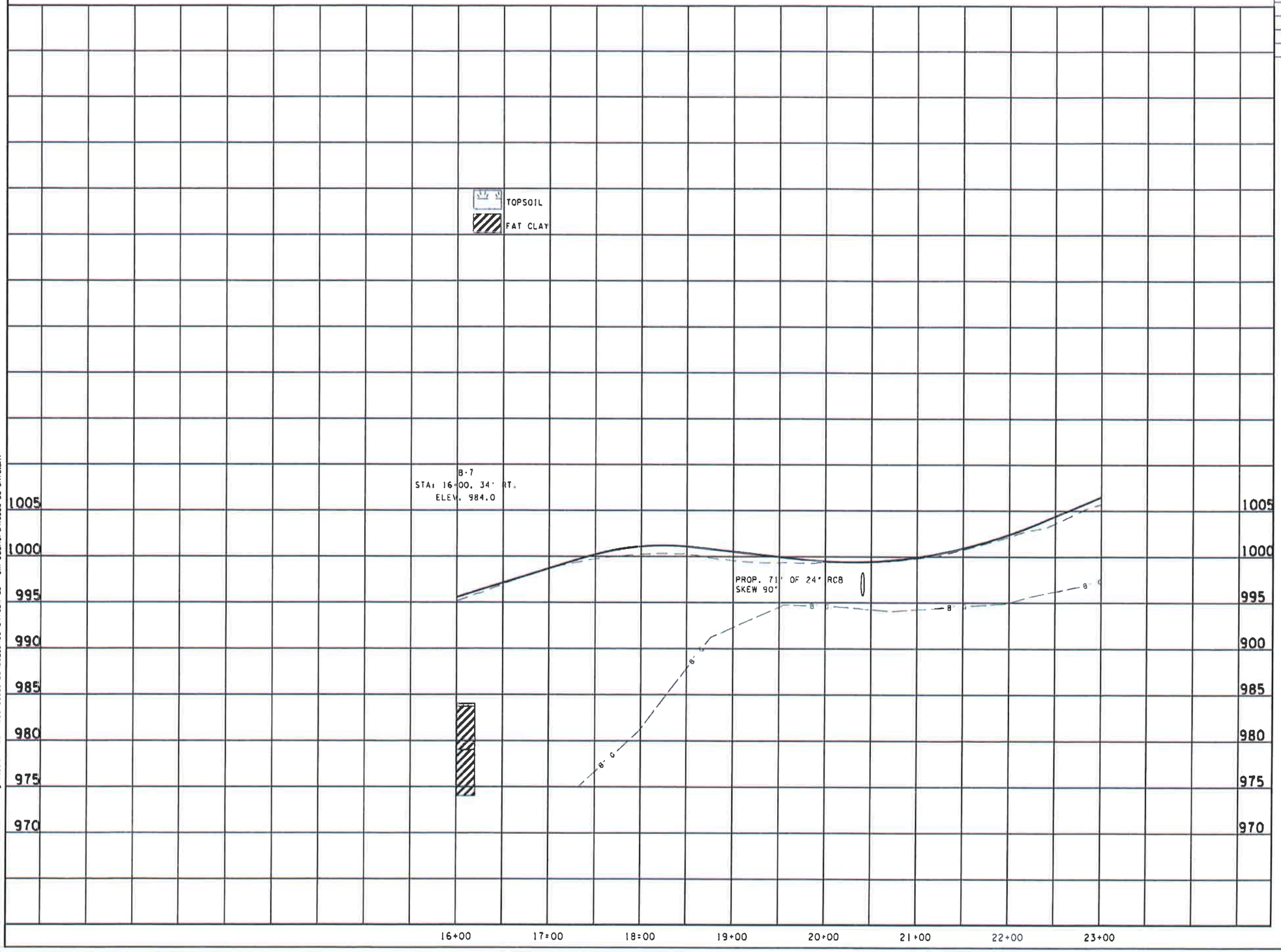
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	G
CONST.	2015	26952-3509-04	26F



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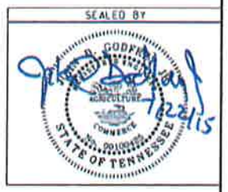

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DEPARTMENT OF TRANSPORTATION

SOILS PROFILE

STA. 16+00 TO STA. 23+00

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

7/22/2015
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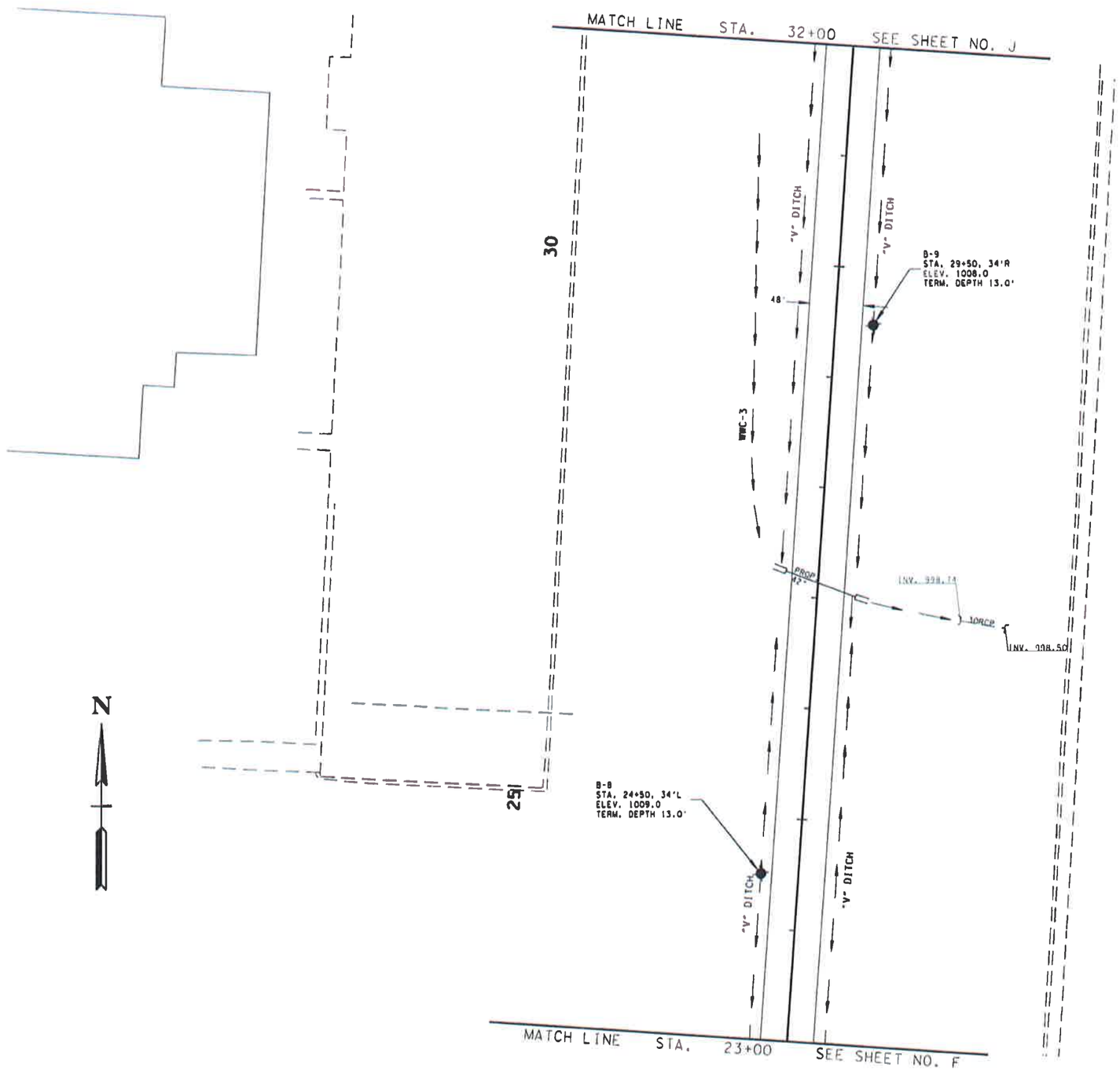
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	H
CONST.	2015	26952-3509-04	26G



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SOIL BORINGS

STA. 23+00 TO STA. 32+00

SCALE: 1" = 50'

7/22/2016
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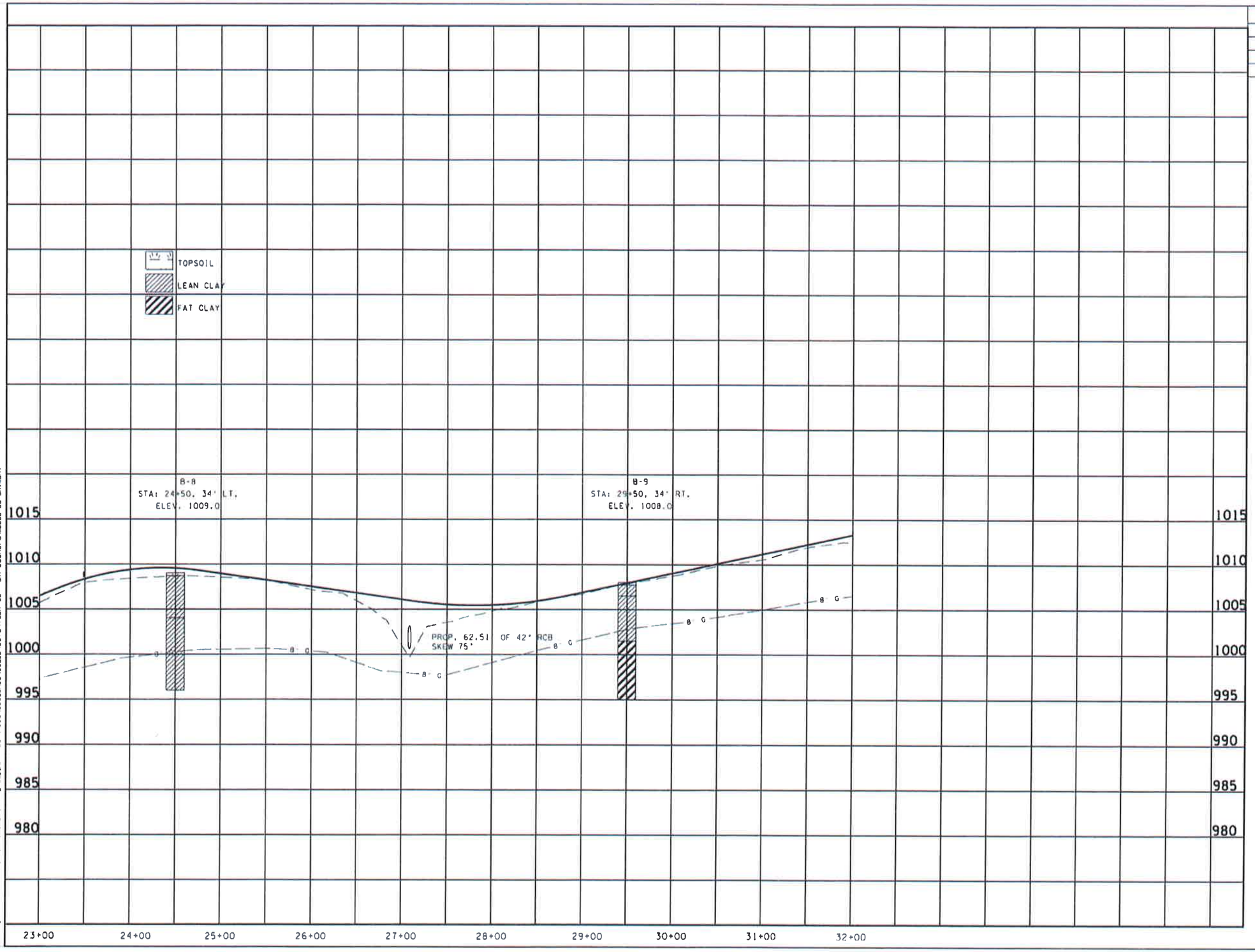
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	1
CONST.	2015	26952-3509-04	26H



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SOILS PROFILE

STA. 23+00 TO STA. 32+00

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

7/22/2015
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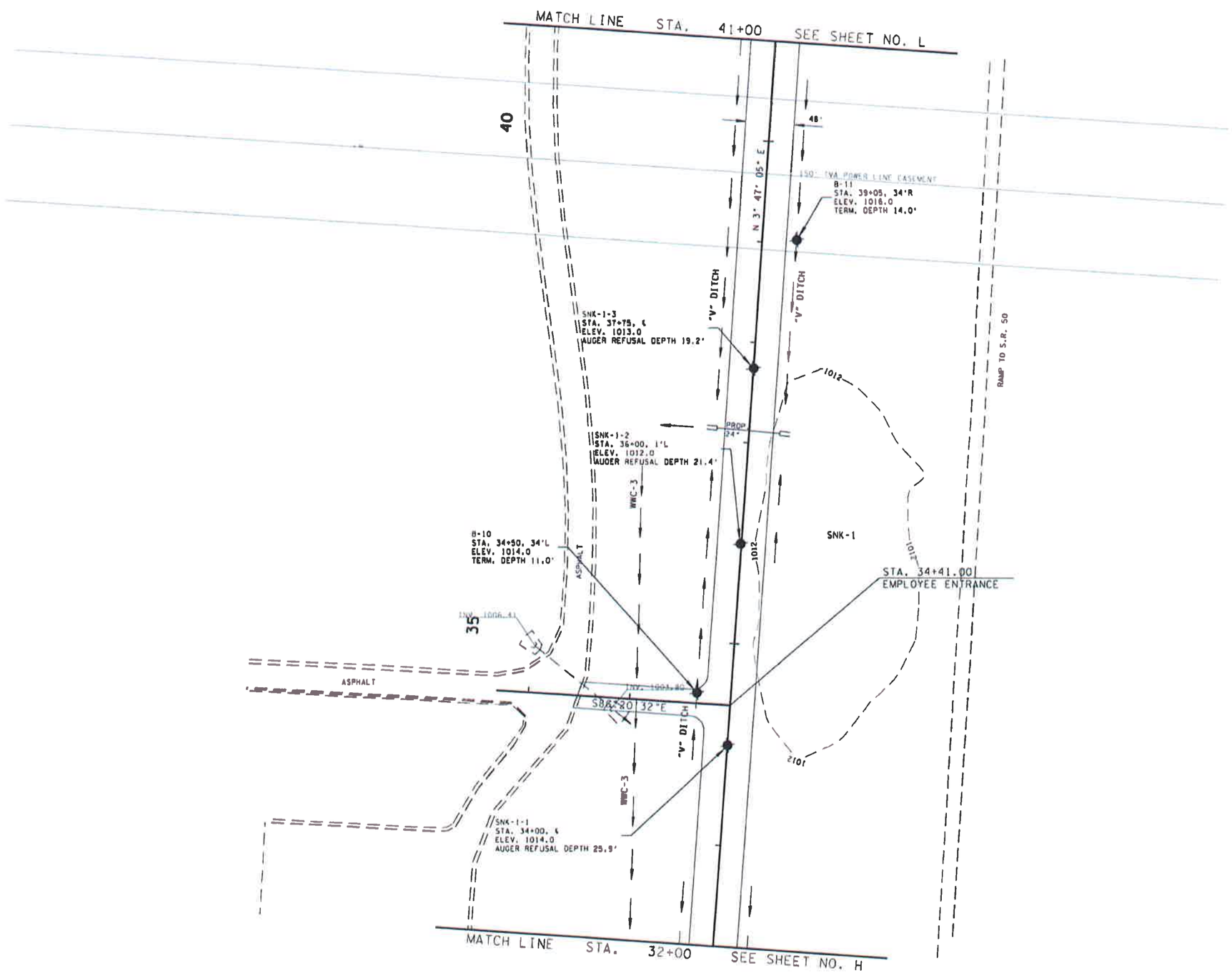
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	J
CONST.	2015	26952-3509-04	261



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SOIL BORINGS

STA. 32+00 TO STA. 41+00

SCALE: 1" = 50'

7/22/2015
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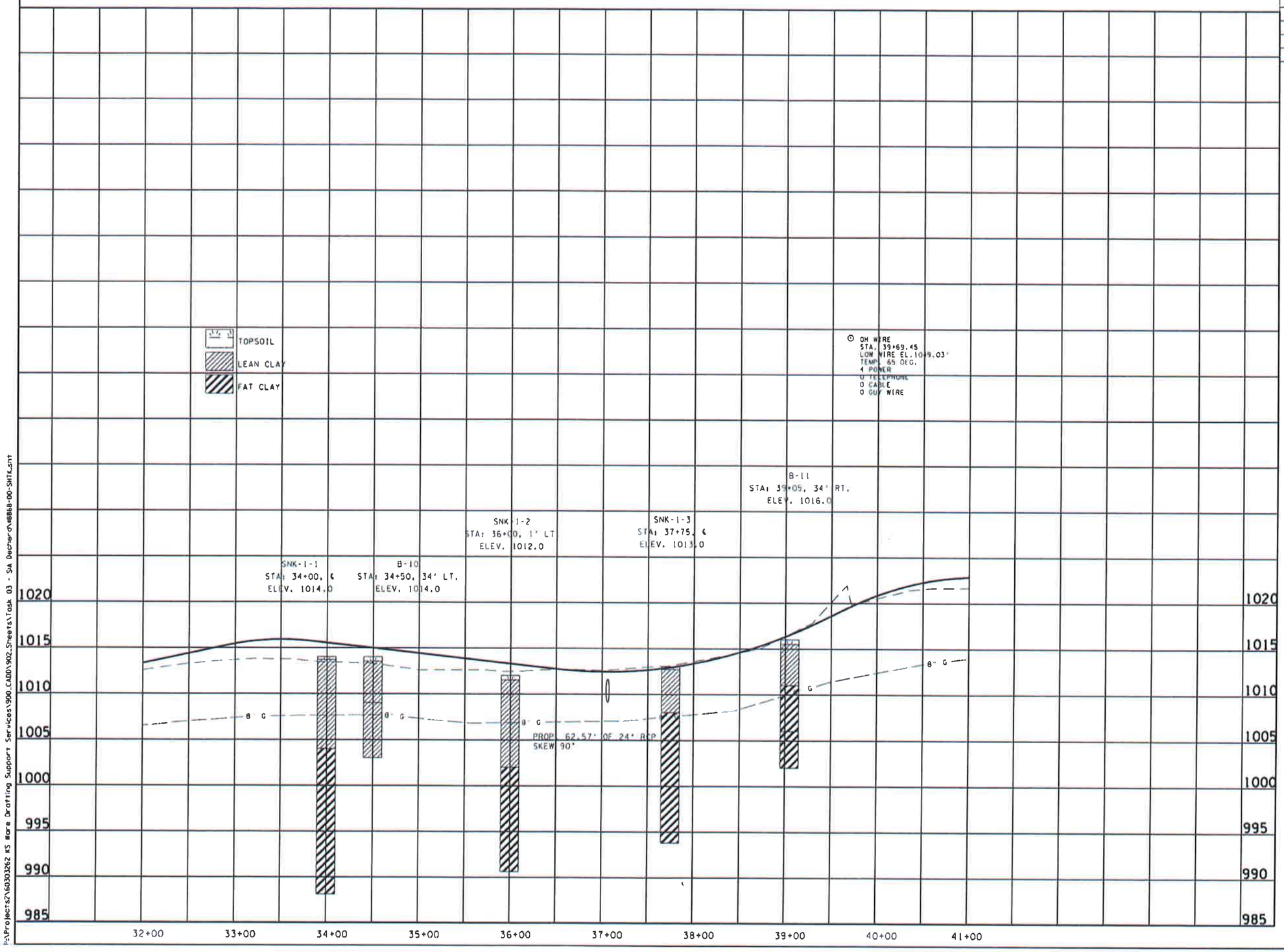
TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	K
CONST.	2015	26952-3509-04	26J



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SOIL PROFILE

STA. 32+00 TO STA. 41+00
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

7/22/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	V
CONST.	2015	26952-3509-04	26K

REV.6-05-2015: REMOVED "TYPICAL SECTION STA. 1+25 TO STA. 3+25", ADDED"TYPICAL SECTION STA. 4+00 TO STA. 4+75" AND "TYPICAL SECTION STA. 4+75 TO STA. 33+75". MODIFIED NOTES AND LEGEND.

TDOT EXCAVATION CLASSIFICATION

TYPE A - SOIL MATERIAL

EMBANKMENT MATERIALS

UNCLASSIFIED

GRADED SOLID ROCK (ITEM NO. 203-02.01)

TYPICAL SECTION STA. 0+00 TO STA. 1+16

SUBGRADE STABILIZATION IS ANTICIPATED BETWEEN STA. 0+40 AND STA. 1+16. WHERE UNSTABLE SOILS ARE PRESENT, A ROCK PAD SHOULD BE CONSTRUCTED, AS FOLLOWS:

-UNSTABLE SOILS PRESENT AFTER CUTS ARE MADE SHOULD BE UNDERCUT 3 FEET.
-IN EMBANKMENT AREAS, THE ROCK PAD SHOULD BE INCORPORATED INTO THE EMBANKMENT FILL. SOME UNDERCUTTING MAY BE REQUIRED IN EMBANKMENT AREAS TO ACHIEVE THE REQUIRED ROCK PAD THICKNESS.
-A LAYER OF TYPE IV GEOTEXTILE FABRIC (ITEM NO. 740-10.04) SHOULD BE PLACED ACROSS THE ENTIRE ROCK PAD AREA.
-THE ROCK PAD SHOULD THEN BE CONSTRUCTED WITH GRADED SOLID ROCK (ITEM NO. 203-02.01) TO A THICKNESS OF 3 FEET.
-A LAYER OF TYPE IV GEOTEXTILE FABRIC SHOULD BE PLACED ACROSS THE TOP OF THE COMPLETED ROCK PAD, PRIOR TO PLACEMENT OFADDITIONAL EMBANKMENT FILL OR PAVEMENT MATERIALS.

IT IS ASSUMED THE AREA EXTENDING FROM STA. 0+40 TO STA. 1+16, WITH AN AVERAGE WIDTH OF 90 FEET AND A THICKNESS OF 3 FEET, WILL REQUIRE ROCK PAD MITIGATION.

MATERIALS GENERATED THROUGH EXCAVATIONS IN THIS SECTION WILL LIKELY CONSIST OF TDOT EXCAVATION CLASSIFICATION TYPE A SOIL MATERIAL.

TYPICAL SECTION STA. 4+00 TO STA. 4+75

UNSTABLE SUBGRADE IS ANTICIPATED BETWEEN STA. 4+00 AND STA. 4+75. WHERE UNSTABLE SOILS ARE PRESENT, A ROCK PAD SHOULD BE CONSTRUCTED USING GRADED SOLID ROCK (ITEM NO. 203-02.01), AS FOLLOWS:

-WHERE UNSTABLE SOILS ARE PRESENT, BEFORE EMBANKMENT FILL IS PLACED, A LAYER OF TYPE IV GEOTEXTILE FABRIC (ITEM NO. 740-10.04) SHOULD BE PLACED ACROSS THE SUBGRADE UNDER THE ENTIRE AREA TO RECEIVE EMBANKMENT FILL.
-GRADED SOLID ROCK SHOULD BE PLACED TO A THICKNESS OF 3 FEET.
-A LAYER OF TYPE IV GEOTEXTILE FABRIC SHOULD BE PLACED ACROSS THE TOP OF THE COMPLETED ROCK PAD, PRIOR TO PLACEMENT OF ADDITIONAL EMBANKMENT FILL OR PAVEMENT MATERIALS.

NOTE: UNDERCUTTING MAY BE REQUIRED TO ACHIEVE REQUIRED THICKNESS OF GRADED SOLID ROCK. IT IS ASSUMED THE AREA EXTENDING FROM STA. 4+00 TO STA. 4+75, WITH AN AVERAGE WIDTH OF 110 FEET AND A DEPTH OF 3 FEET, WILL REQUIRE ROCK PAD MITIGATION.

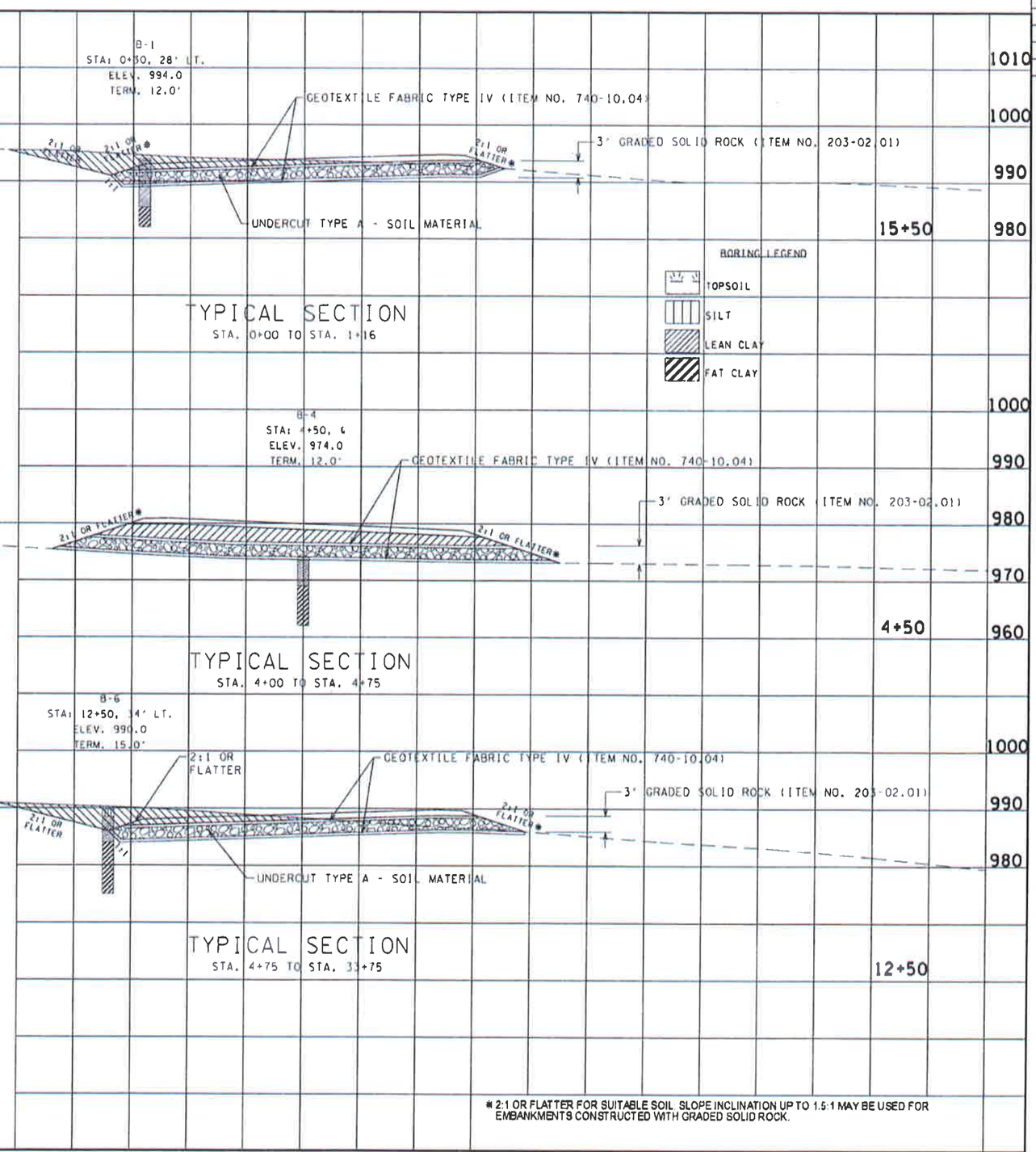
TYPICAL SECTION STA. 4+75 TO STA. 33+75

SUBGRADE STABILIZATION IS ANTICIPATED BETWEEN STA. 4+75 AND STA. 33+75. WHERE UNSTABLE SOILS ARE PRESENT, A ROCK PAD SHOULD BE CONSTRUCTED, AS FOLLOWS:

-UNSTABLE SOILS PRESENT AFTER CUTS ARE MADE SHOULD BE UNDERCUT 3 FEET.
-IN EMBANKMENT AREAS, THE ROCK PAD SHOULD BE INCORPORATED INTO THE EMBANKMENT FILL. SOME UNDERCUTTING MAY BE REQUIRED IN EMBANKMENT AREAS TO ACHIEVE THE REQUIRED ROCK PAD THICKNESS.
-A LAYER OF TYPE IV GEOTEXTILE FABRIC (ITEM NO. 740-10.04) SHOULD BE PLACED ACROSS THE ENTIRE ROCK PAD AREA.
-THE ROCK PAD SHOULD THEN BE CONSTRUCTED WITH GRADED SOLID ROCK (ITEM NO. 203-02.01) TO A THICKNESS OF 3 FEET.
-A LAYER OF TYPE IV GEOTEXTILE FABRIC SHOULD BE PLACED ACROSS THE TOP OF THE COMPLETED ROCK PAD, PRIOR TO PLACEMENT OFADDITIONAL EMBANKMENT FILL OR PAVEMENT MATERIALS.

IT IS ASSUMED THE AREA EXTENDING FROM STA. 4+75 TO STA. 33+75, WITH AN AVERAGE WIDTH OF 80 FEET AND A DEPTH OF 3 FEET, WILL REQUIRE ROCK PAD MITIGATION.

MATERIALS GENERATED THROUGH EXCAVATIONS IN THIS SECTION WILL LIKELY CONSIST OF TDOT EXCAVATION CLASSIFICATION TYPE A SOIL MATERIAL.



* 2:1 OR FLATTER FOR SUITABLE SOIL. SLOPE INCLINATION UP TO 1.5:1 MAY BE USED FOR EMBANKMENTS CONSTRUCTED WITH GRADED SOLID ROCK.

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TYPICAL SECTIONS

7/22/2015
P:\Projects2\60303262 KS Bore Drafting Support Services\900.CADD\902.Sheets\Task 03 - SA Bechert\MB868-00-SHTV.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
GEOTECH	2014	26952-1509-04	W
CONST.	2015	26952-3509-04	26L

REV.6-05-2015: REMOVED "TYPICAL SECTION STA. 3+25 TO STA. 4+75" AND "TYPICAL SECTION STA. 4+75 TO STA. 64+75". ADDED "TYPICAL SECTION STA. 33+75 TO STA. 37+75" AND "TYPICAL SECTION STA. 37+75 TO STA. 56+75". MODIFIED NOTES AND LEGEND.

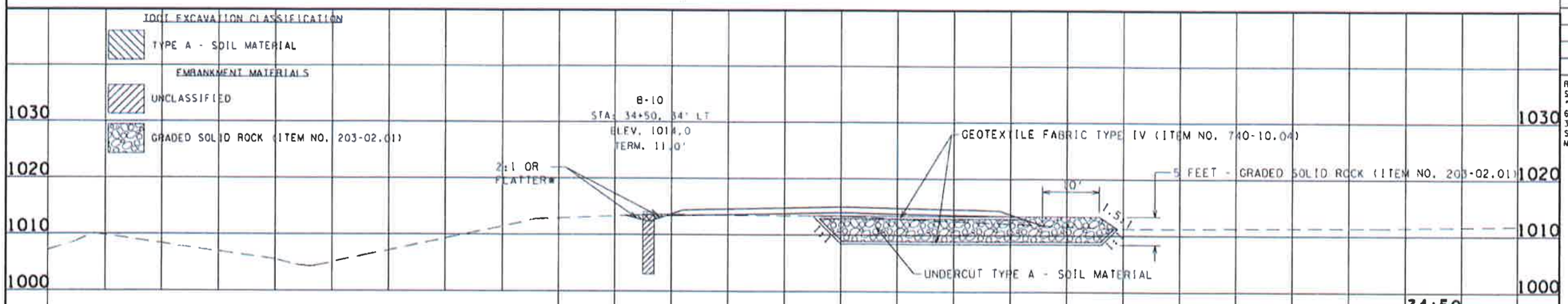
TDOT EXCAVATION CLASSIFICATION

TYPE A - SOIL MATERIAL

EMBANKMENT MATERIALS

UNCLASSIFIED

GRADED SOLID ROCK (ITEM NO. 203-02.01)



TYPICAL SECTION STA. 33+75 TO STA. 37+75

THE FEATURE LOCATED FROM APPROX. STA. 33+75 TO STA. 37+75 SHOULD BE BRIDGED WITH 5 FEET OF GRADED SOLID ROCK (ITEM NO. 204-02.01). THE 5 FEET OF GRADED SOLID ROCK SHALL BE PLACED BELOW THE SUBGRADE ELEVATION AND TYPE IV GEOTEXTILE FABRIC (ITEM NO. 740-10.04) SHALL BE PLACED ABOVE AND BELOW GRADED SOLID ROCK. UNDERCUT SUBGRADE AS NECESSARY TO INSTALL GRADED SOLID ROCK. THIS TREATMENT SHOULD OCCUR FROM THE CENTERLINE TO 10 FEET RIGHT BEYOND THE TOE OF THE ROADWAY SLOPE.

MATERIALS GENERATED THROUGH EXCAVATIONS IN THIS SECTION WILL LIKELY CONSIST OF TDOT EXCAVATION CLASSIFICATION TYPE A SOIL MATERIAL.

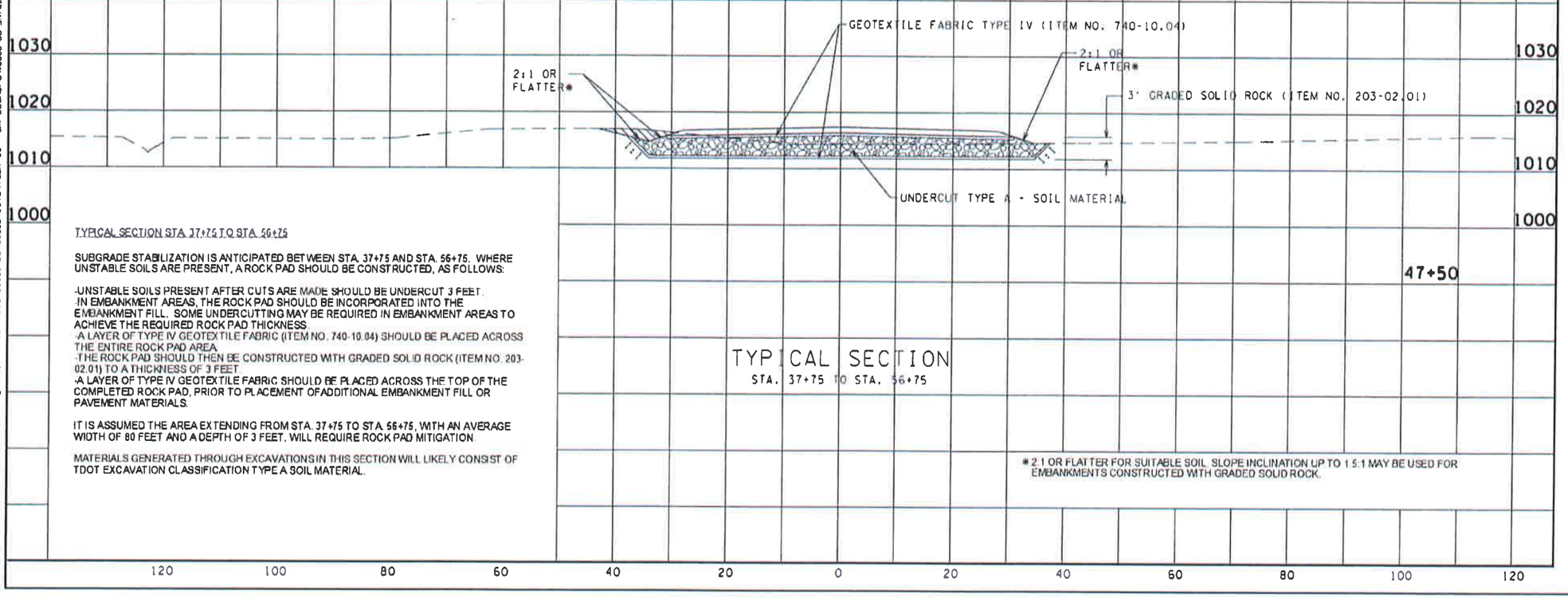
TYPICAL SECTION

STA. 33+75 TO STA. 37+75

BORING LEGEND

TOPSOIL

LEAN CLAY



TYPICAL SECTION STA. 37+75 TO STA. 56+75

SUBGRADE STABILIZATION IS ANTICIPATED BETWEEN STA. 37+75 AND STA. 56+75. WHERE UNSTABLE SOILS ARE PRESENT, A ROCK PAD SHOULD BE CONSTRUCTED, AS FOLLOWS:

-UNSTABLE SOILS PRESENT AFTER CUTS ARE MADE SHOULD BE UNDERCUT 3 FEET.
-IN EMBANKMENT AREAS, THE ROCK PAD SHOULD BE INCORPORATED INTO THE EMBANKMENT FILL. SOME UNDERCUTTING MAY BE REQUIRED IN EMBANKMENT AREAS TO ACHIEVE THE REQUIRED ROCK PAD THICKNESS.
-A LAYER OF TYPE IV GEOTEXTILE FABRIC (ITEM NO. 740-10.04) SHOULD BE PLACED ACROSS THE ENTIRE ROCK PAD AREA.
-THE ROCK PAD SHOULD THEN BE CONSTRUCTED WITH GRADED SOLID ROCK (ITEM NO. 203-02.01) TO A THICKNESS OF 3 FEET.
-A LAYER OF TYPE IV GEOTEXTILE FABRIC SHOULD BE PLACED ACROSS THE TOP OF THE COMPLETED ROCK PAD, PRIOR TO PLACEMENT OF ADDITIONAL EMBANKMENT FILL OR PAVEMENT MATERIALS.

IT IS ASSUMED THE AREA EXTENDING FROM STA. 37+75 TO STA. 56+75, WITH AN AVERAGE WIDTH OF 80 FEET AND A DEPTH OF 3 FEET, WILL REQUIRE ROCK PAD MITIGATION.

MATERIALS GENERATED THROUGH EXCAVATIONS IN THIS SECTION WILL LIKELY CONSIST OF TDOT EXCAVATION CLASSIFICATION TYPE A SOIL MATERIAL.

TYPICAL SECTION

STA. 37+75 TO STA. 56+75

* 2:1 OR FLATTER FOR SUITABLE SOIL. SLOPE INCLINATION UP TO 1.5:1 MAY BE USED FOR EMBANKMENTS CONSTRUCTED WITH GRADED SOLID ROCK.

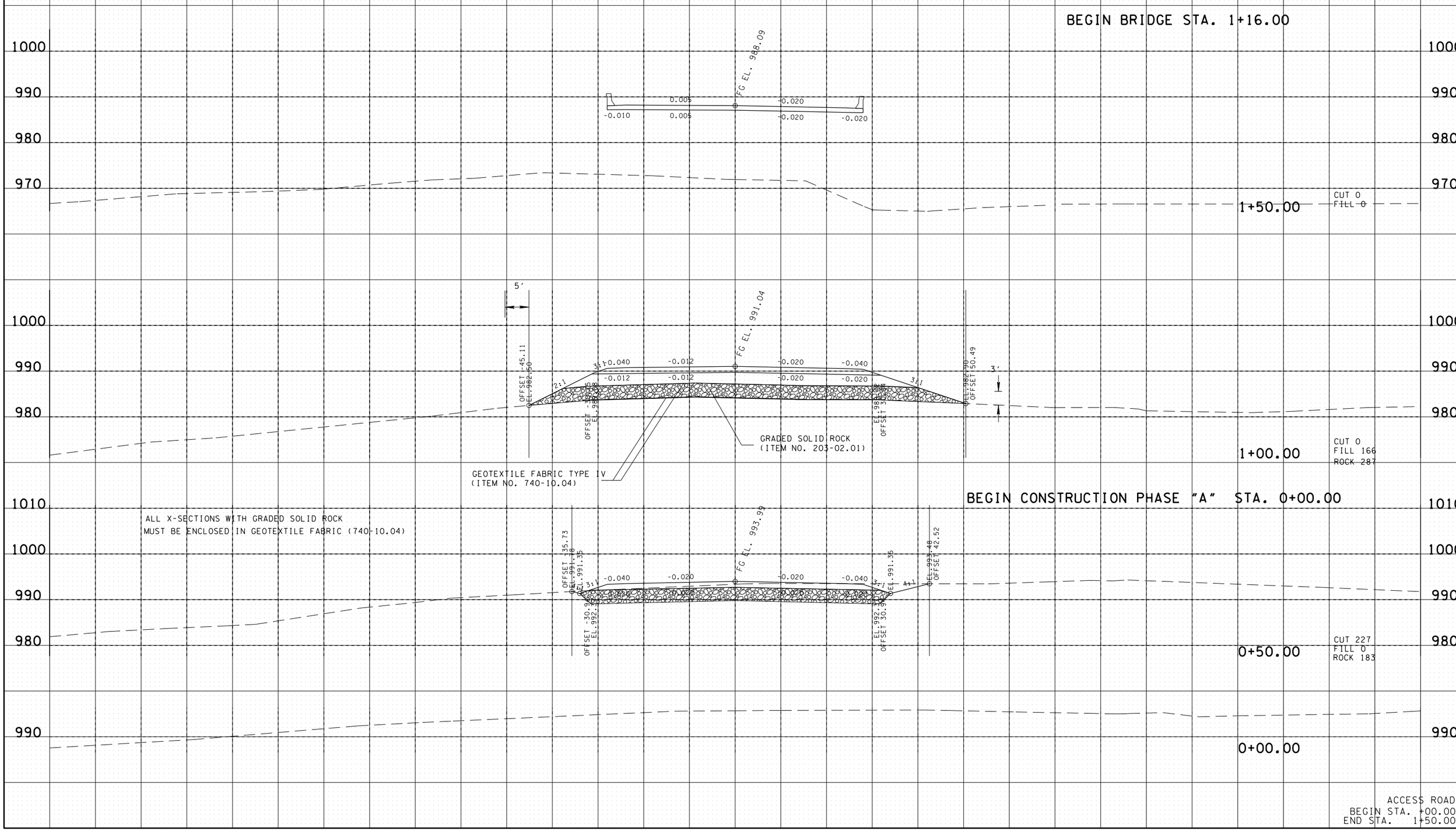
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

7/22/2015
P:\Projects2\60303262 KS More Drafting Support Services\900.CADD\902.Sheets\Task 03 - SIA Dechero\88868-00-SHT#.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	25
CONST.	2015	26952-3509-04	23



ACCESS ROAD
BEGIN STA. +00.00
END STA. 1+50.00

26-OCT-2015 13:47
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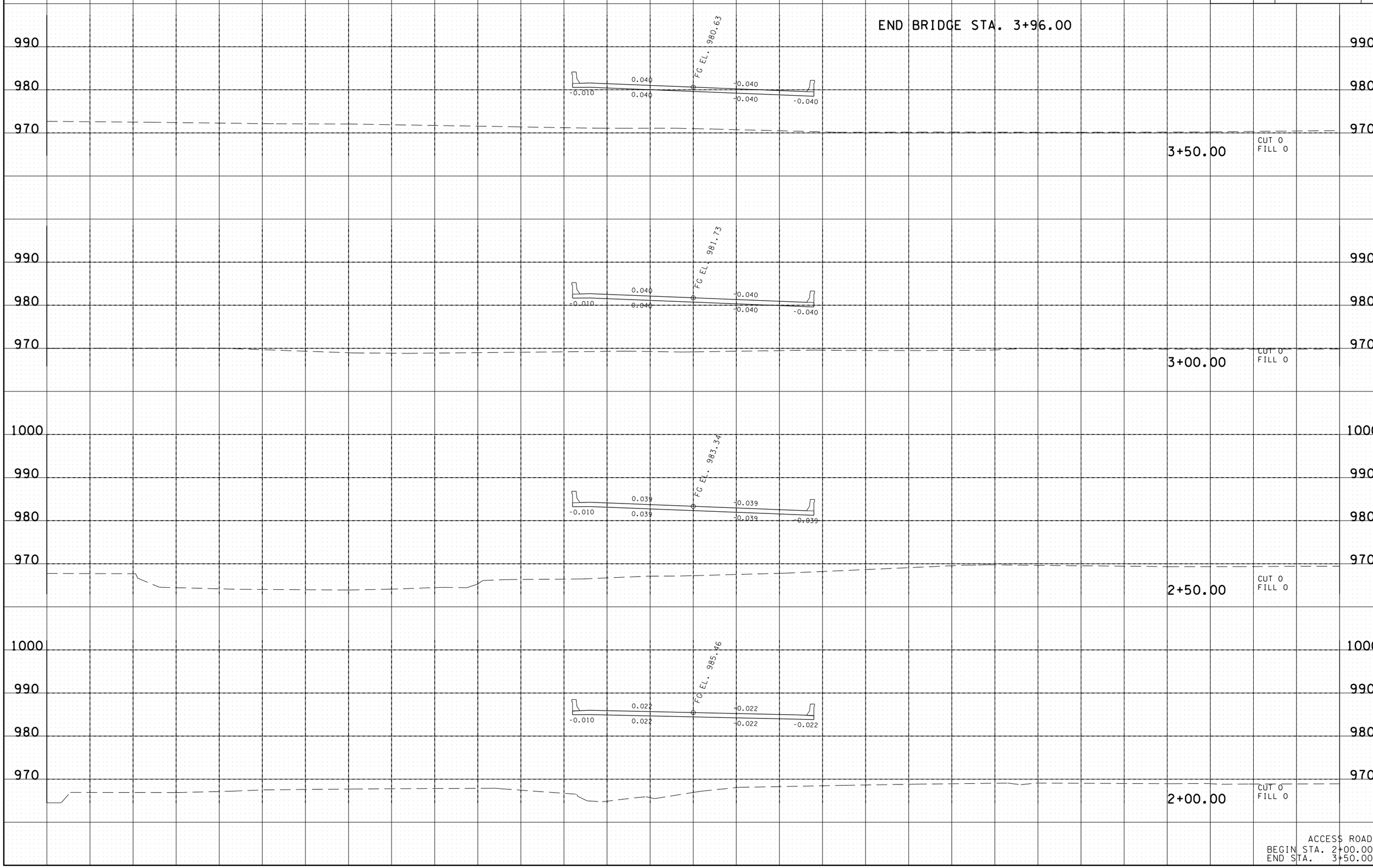
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	26
CONST.	2015	26952-3509-04	24



ACCESS ROAD
BEGIN STA. 2+00.00
END STA. 3+50.00

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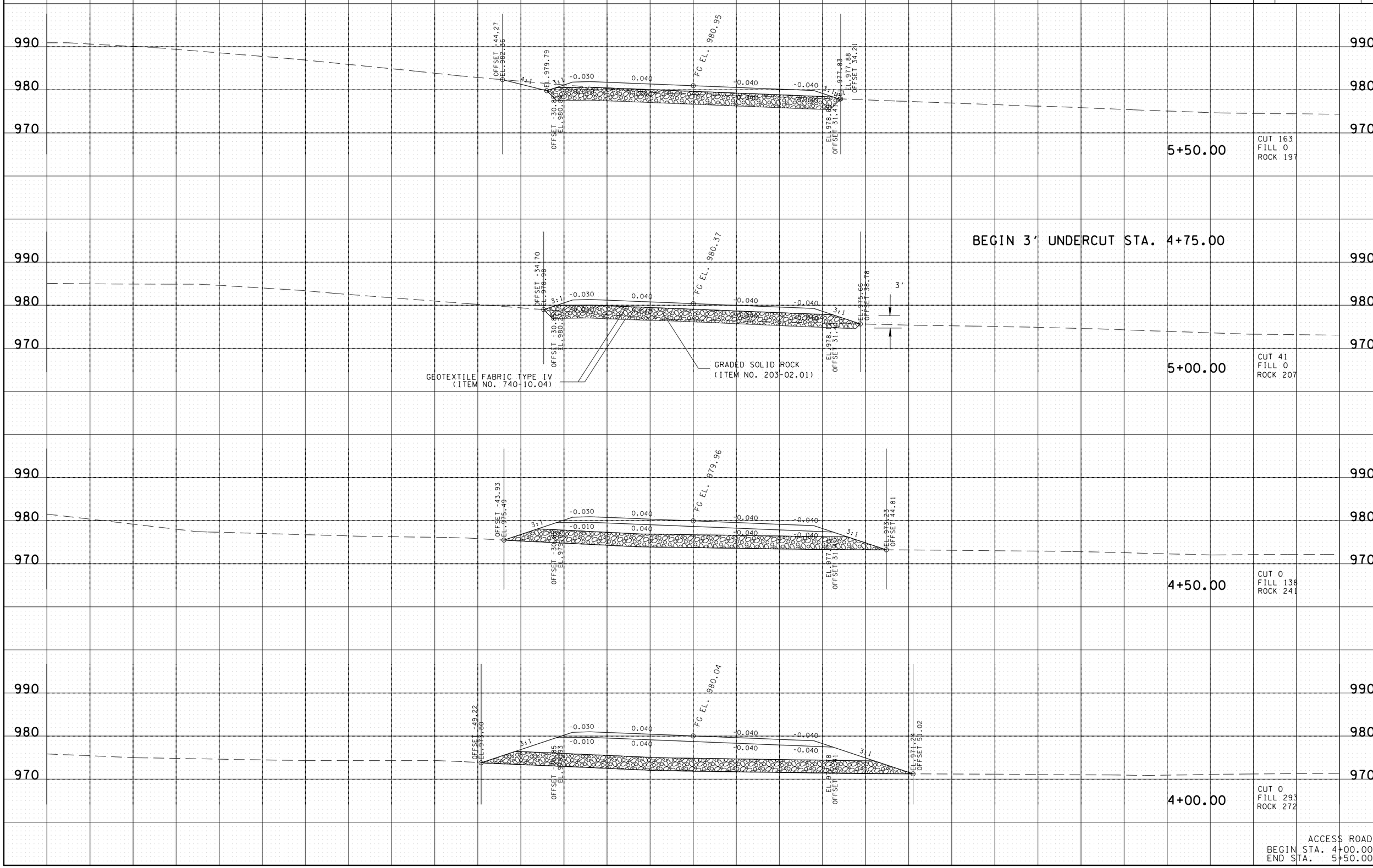
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	27
CONST.	2015	26952-3509-04	25



ACCESS ROAD
BEGIN STA. 4+00.00
END STA. 5+50.00

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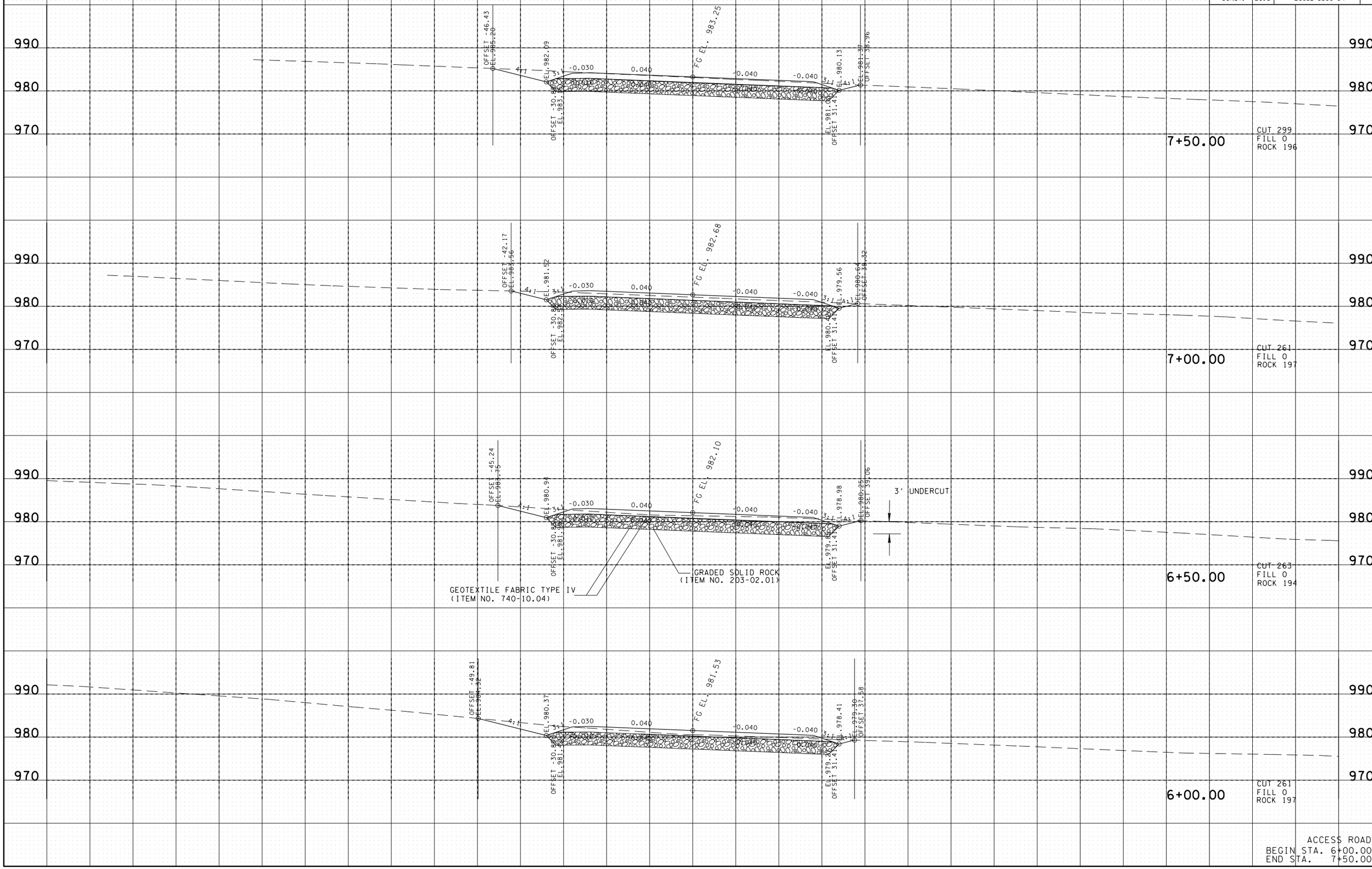
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	28
CONST.	2015	26952-3509-04	27



ACCESS ROAD
BEGIN STA. 6+00.00
END STA. 7+50.00

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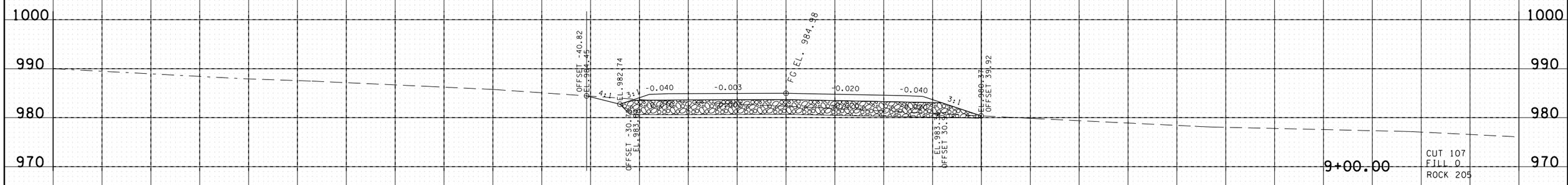
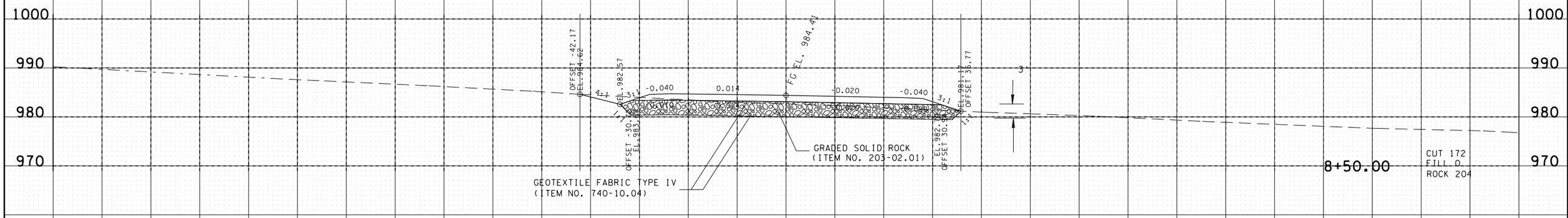
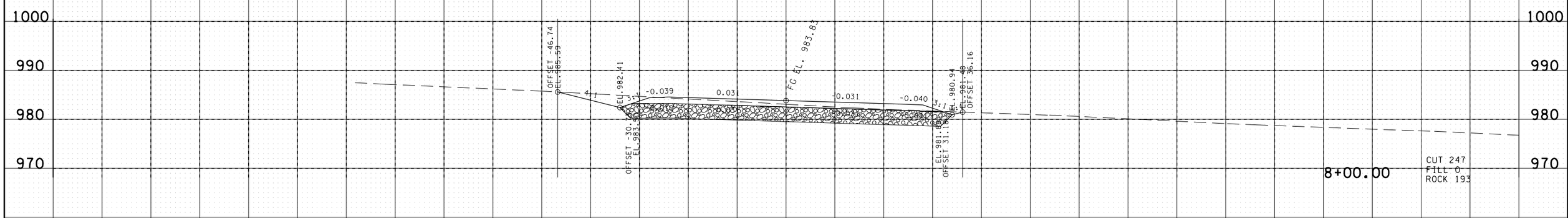
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	29
CONST.	2015	26952-3509-04	28







ACCESS ROAD
BEGIN STA. 8+00.00
END STA. 9+00.00

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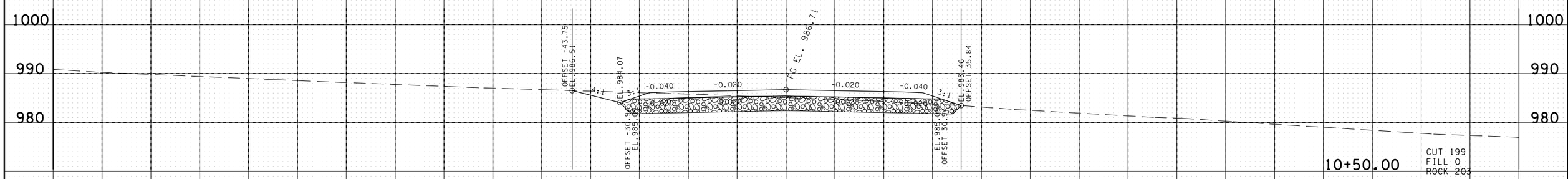
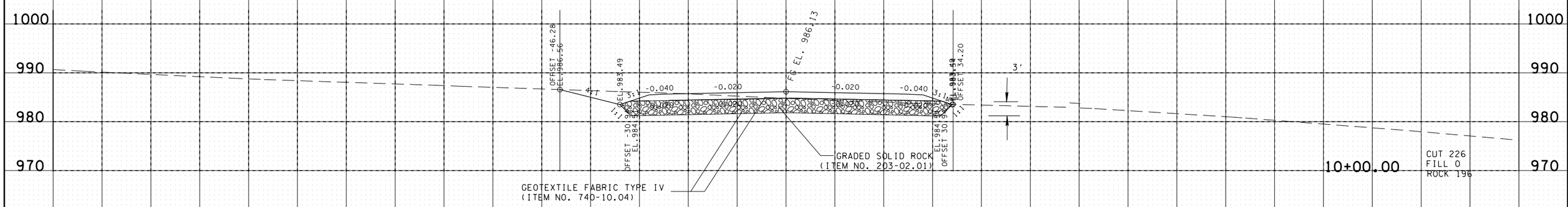
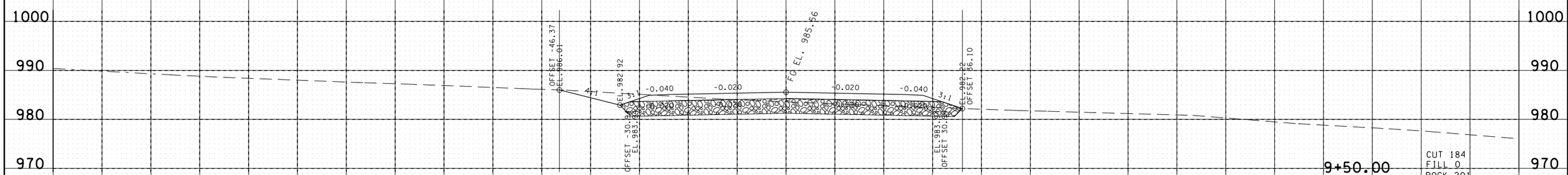
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	30
CONST.	2015	26952-3509-04	29







ACCESS ROAD
BEGIN STA. 9+50.00
END STA. 10+50.00

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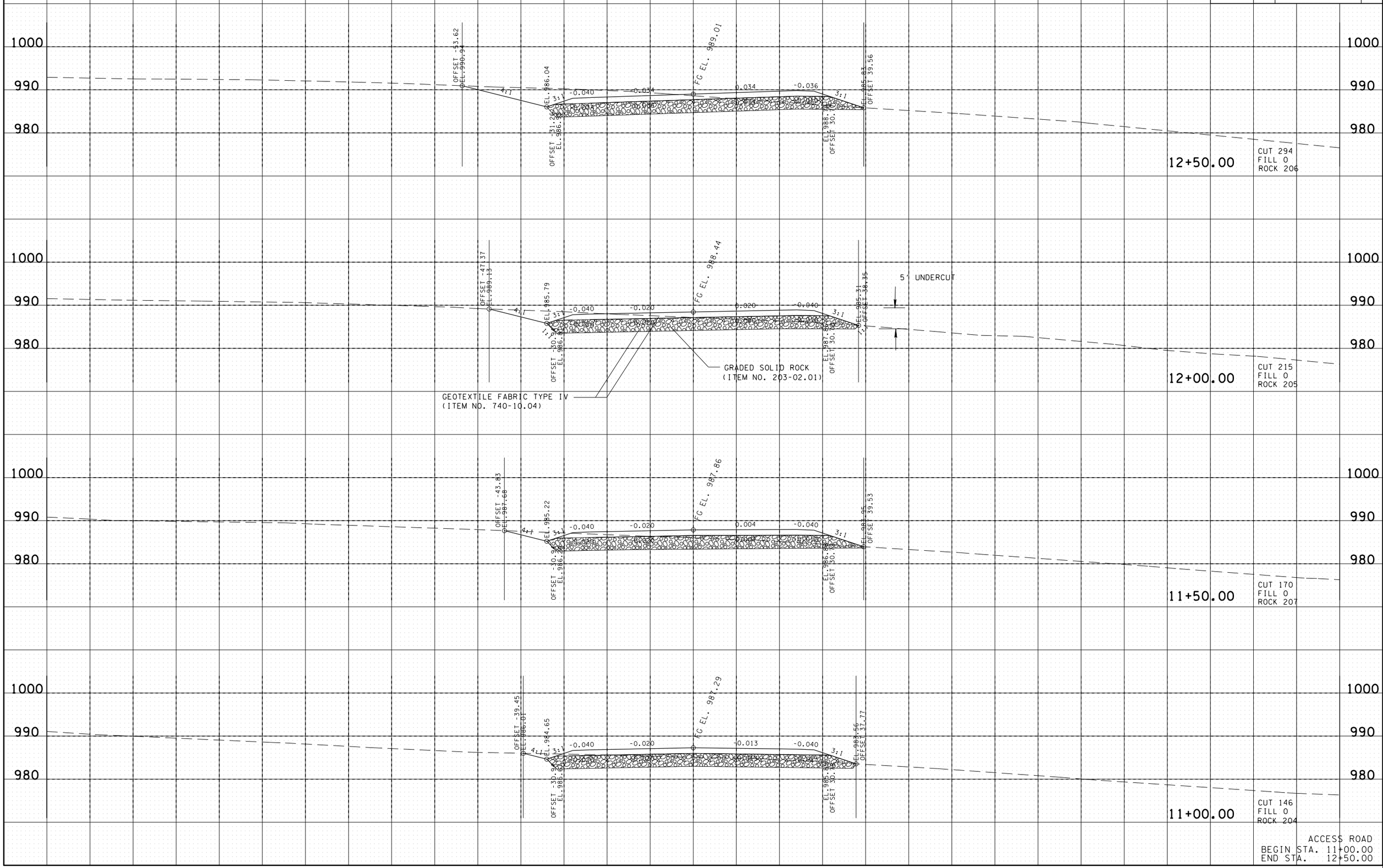
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	31
CONST.	2015	26952-3509-04	30



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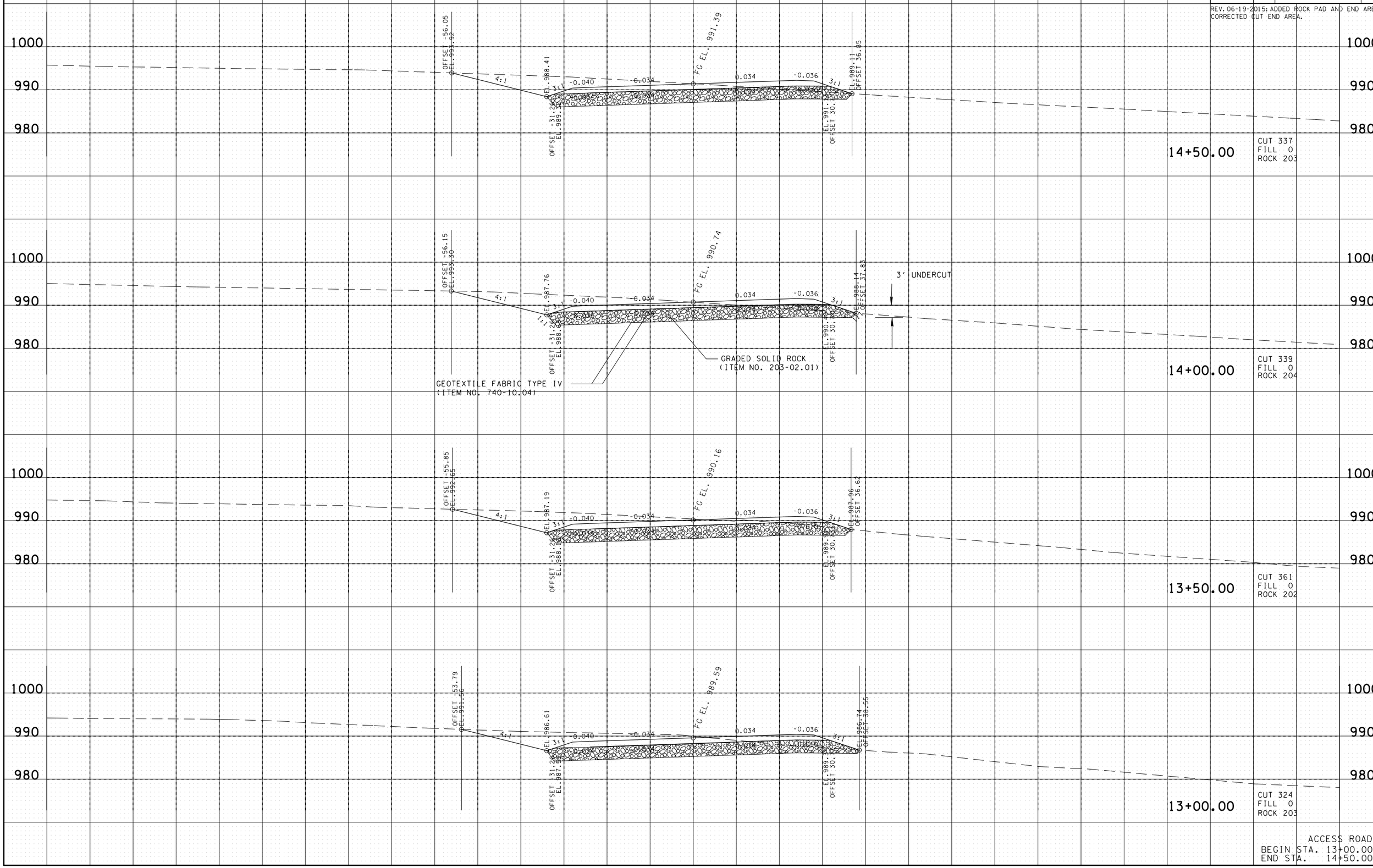
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	32
CONST.	2015	26952-3509-04	31

REV. 06-19-2015: ADDED ROCK PAD AND END AREA.
CORRECTED CUT END AREA.



ACCESS ROAD
BEGIN STA. 13+00.00
END STA. 14+50.00

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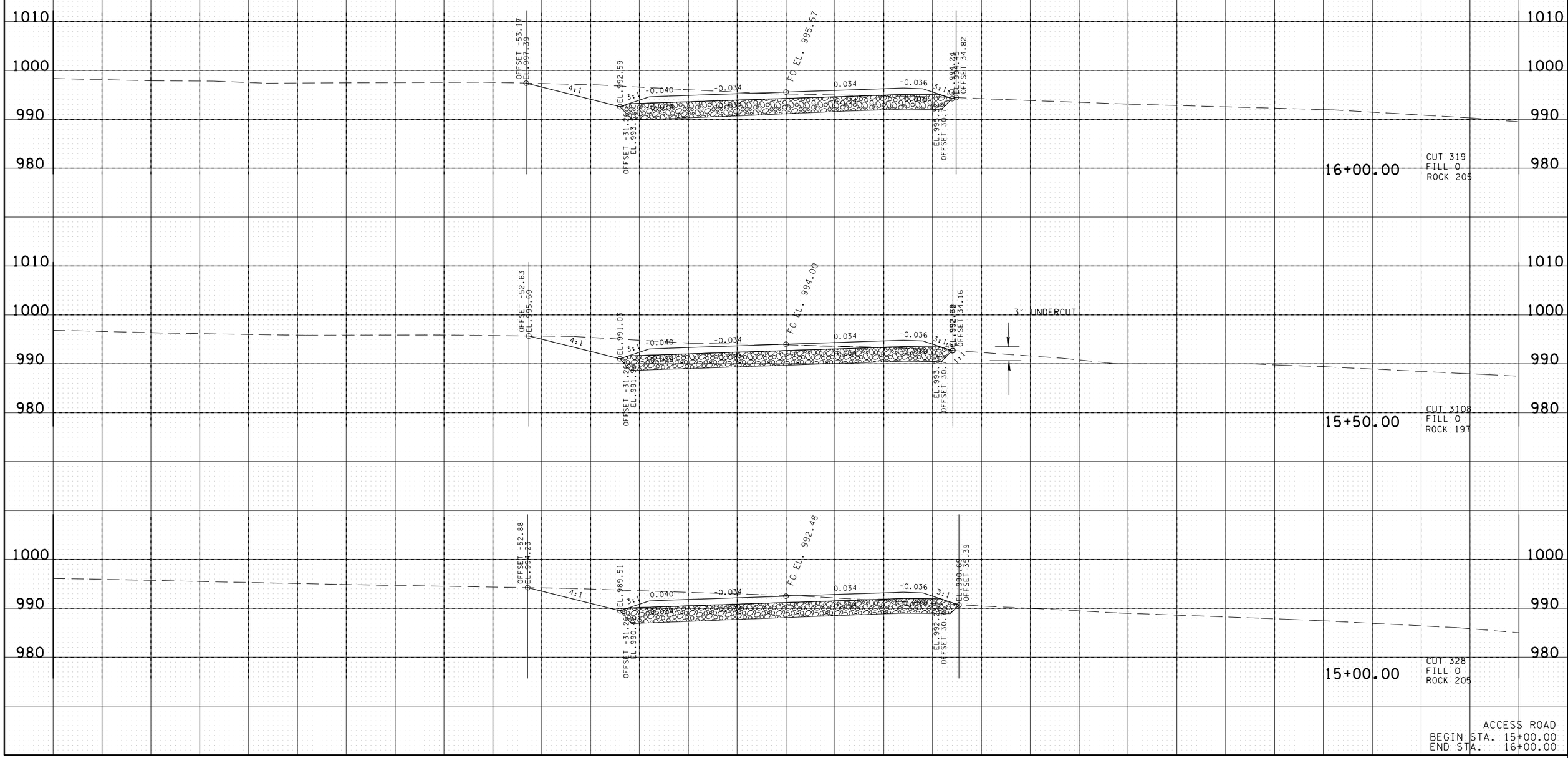
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	33
CONST.	2015	26952-3509-04	32



ACCESS ROAD
BEGIN STA. 15+00.00
END STA. 16+00.00

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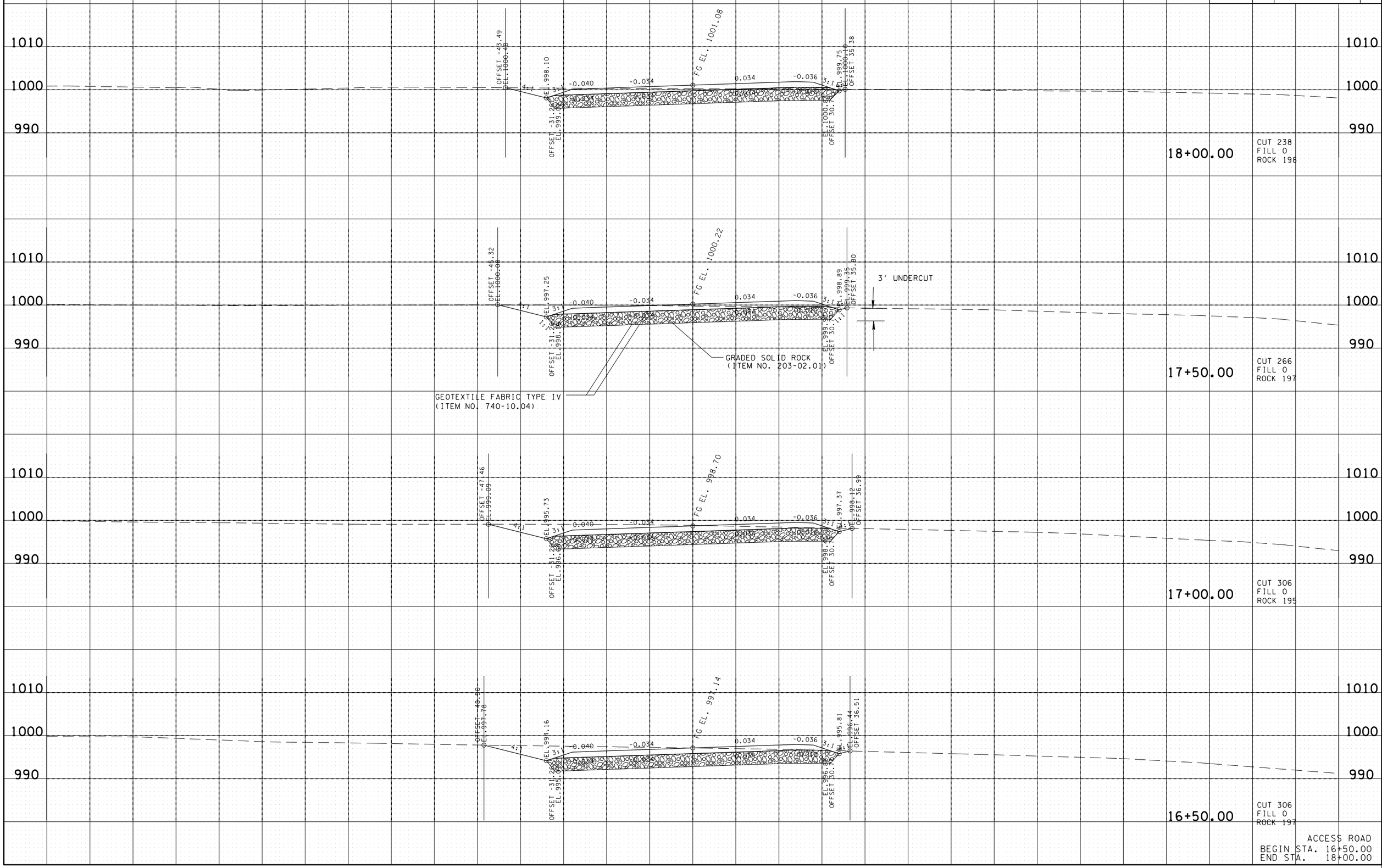
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	34
CONST.	2015	26952-3509-04	33



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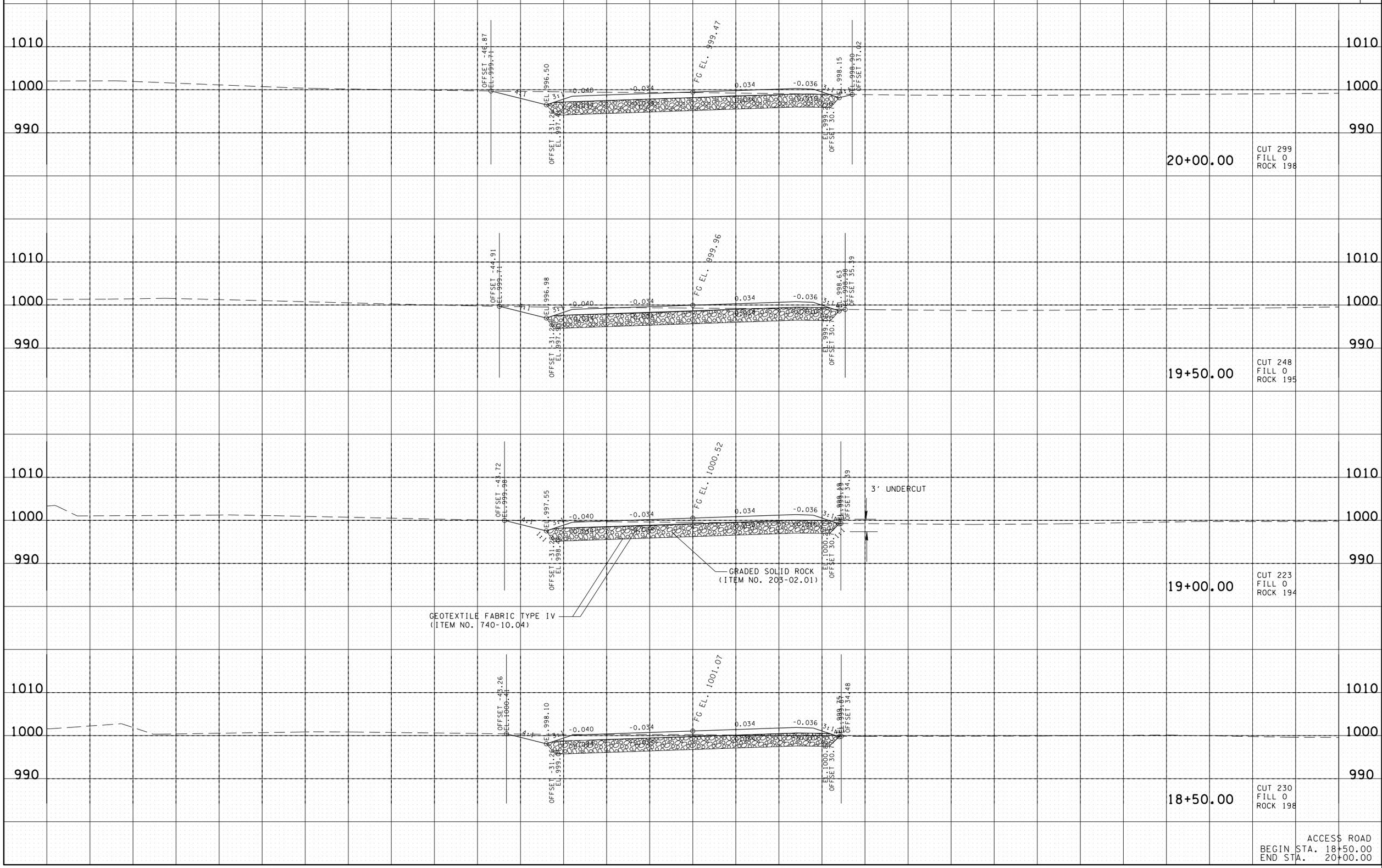
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	35
CONST.	2015	26952-3509-04	34



ACCESS ROAD
BEGIN STA. 18+50.00
END STA. 20+00.00

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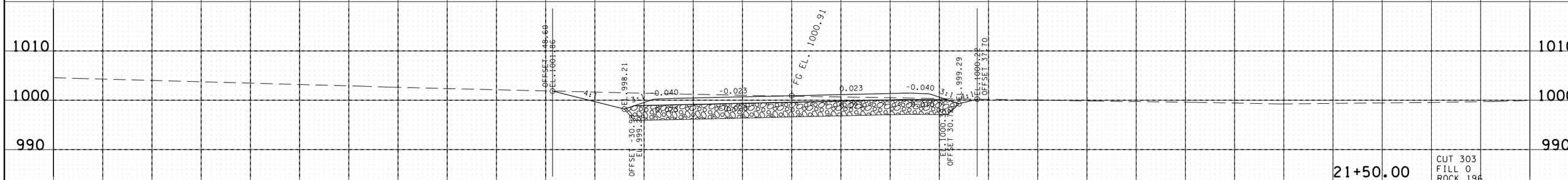
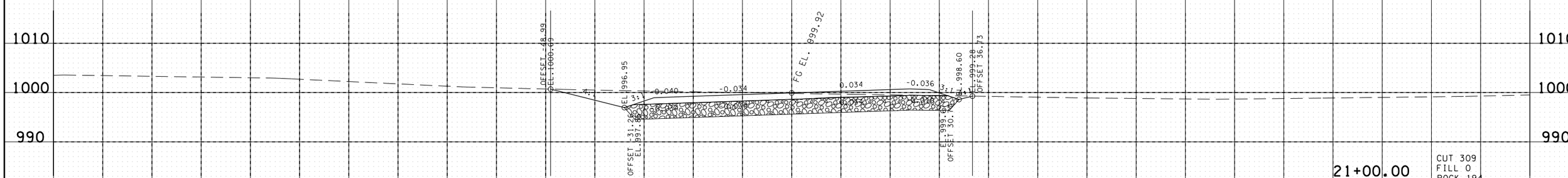
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	36
CONST.	2015	26952-3509-04	35



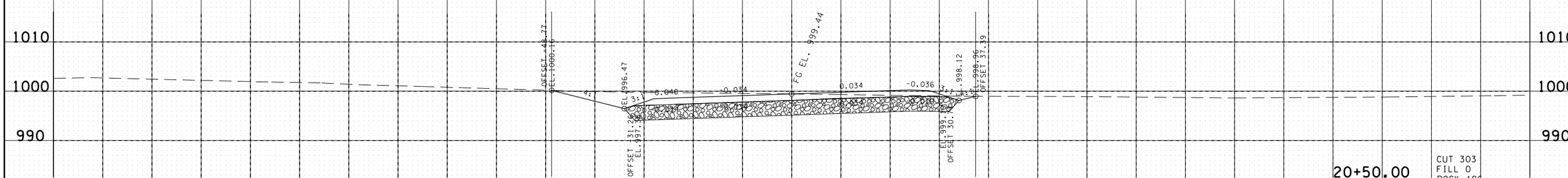
21+50.00

CUT 303
FILL 0
ROCK 196



21+00.00

CUT 309
FILL 0
ROCK 194



20+50.00

CUT 303
FILL 0
ROCK 196

ACCESS ROAD
BEGIN STA. 20+50.00
END STA. 21+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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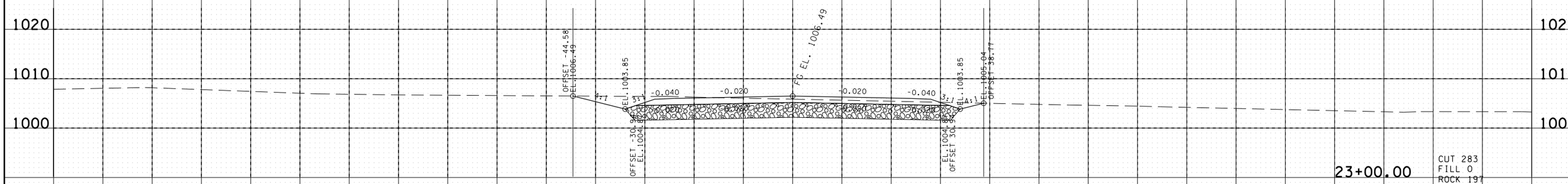
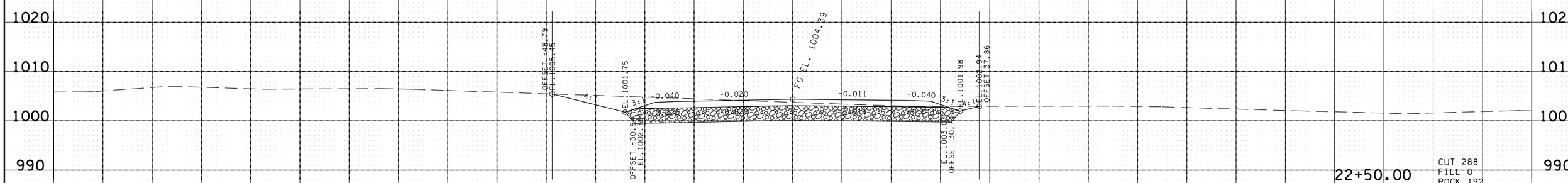
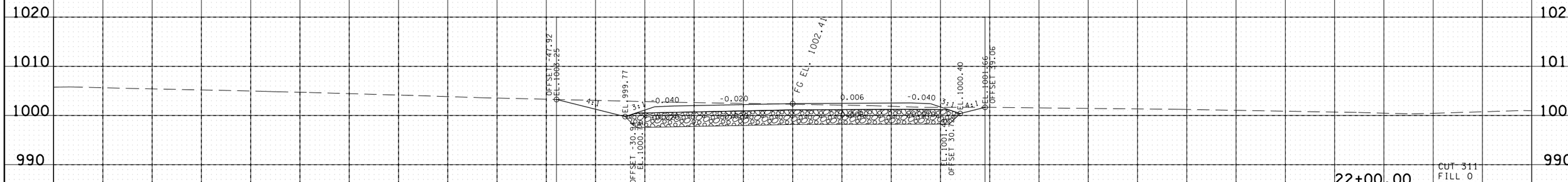
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	37
CONST.	2015	26952-3509-04	36







ACCESS ROAD
BEGIN STA. 22+00.00
END STA. 23+00.00

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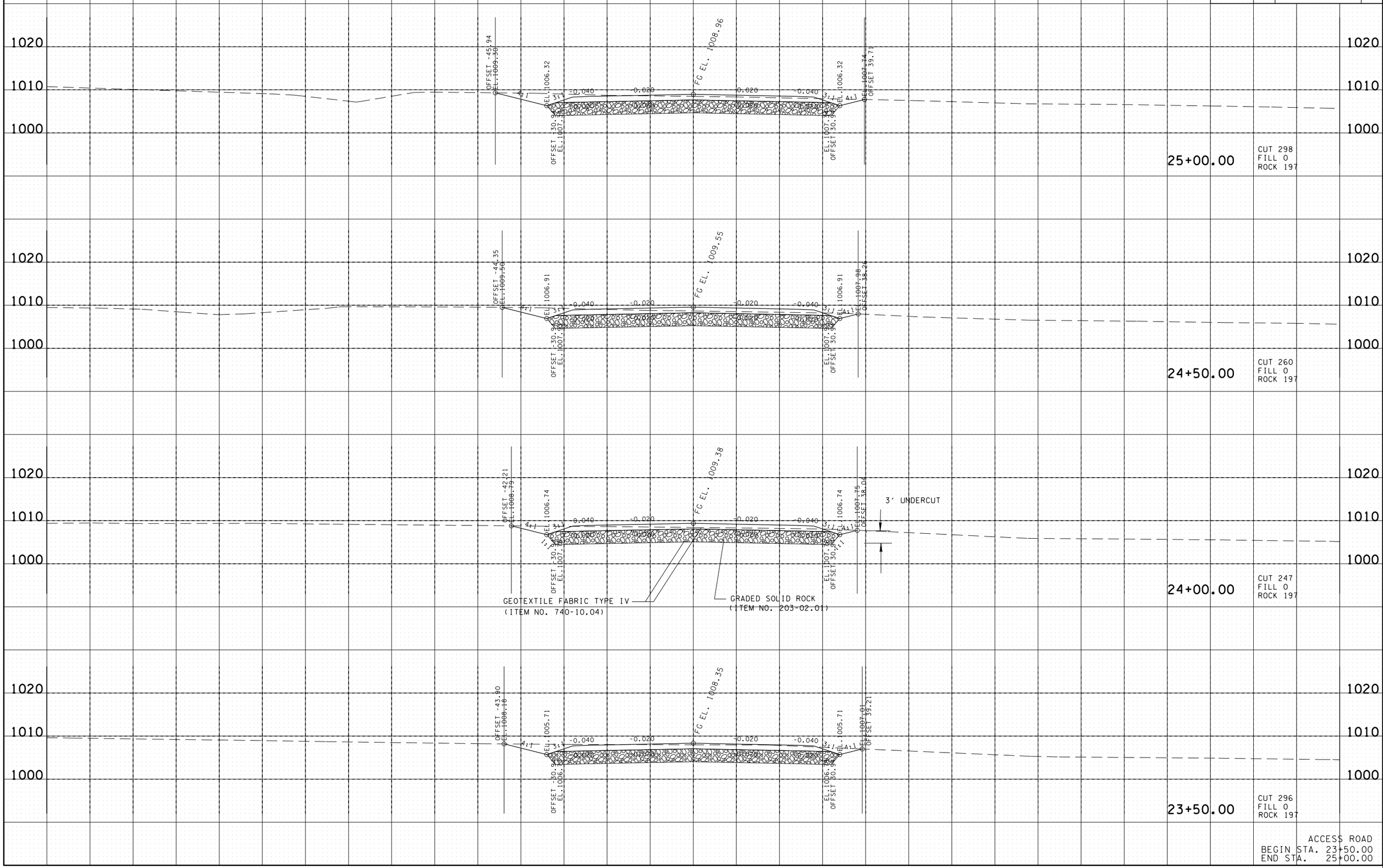
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	38
CONST.	2015	26952-3509-04	37



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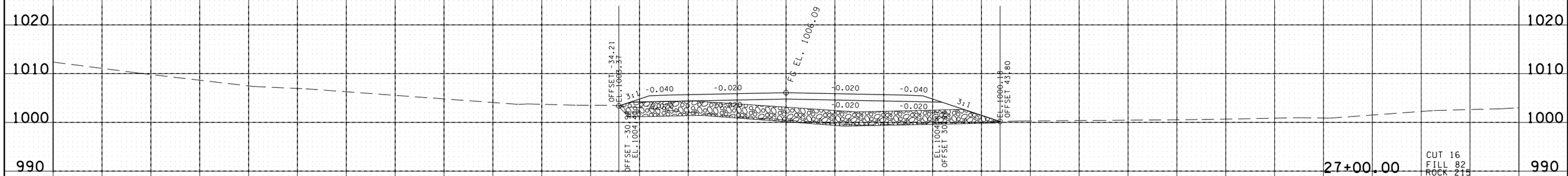
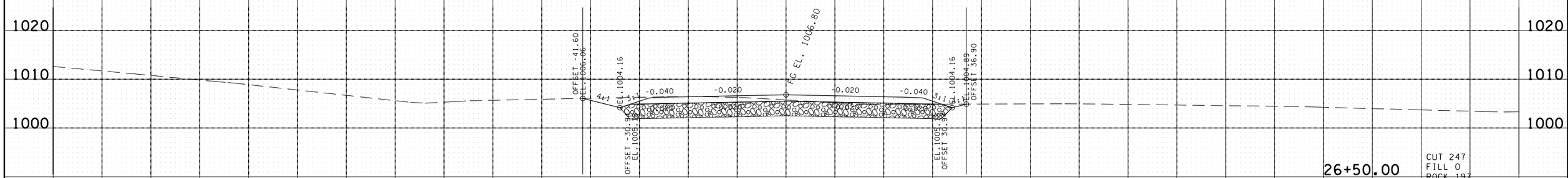
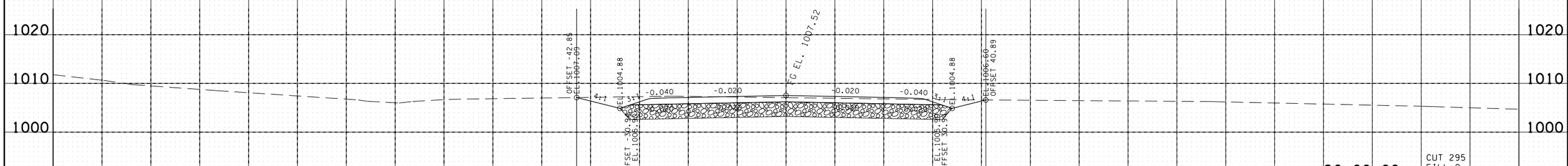
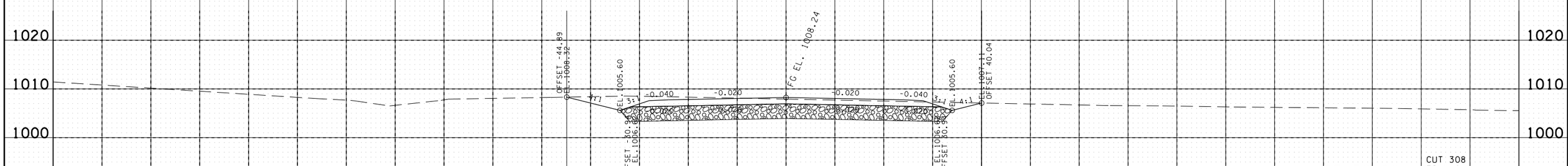
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	39
CONST.	2015	26952-3509-04	38









ACCESS ROAD
BEGIN STA. 25+50.00
END STA. 27+00.00

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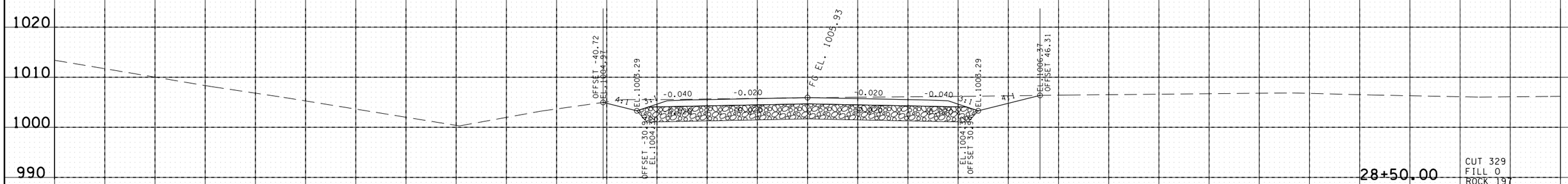
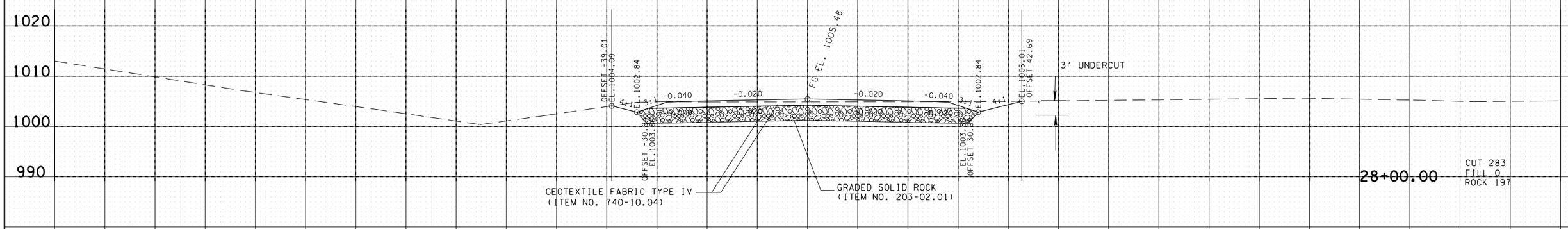
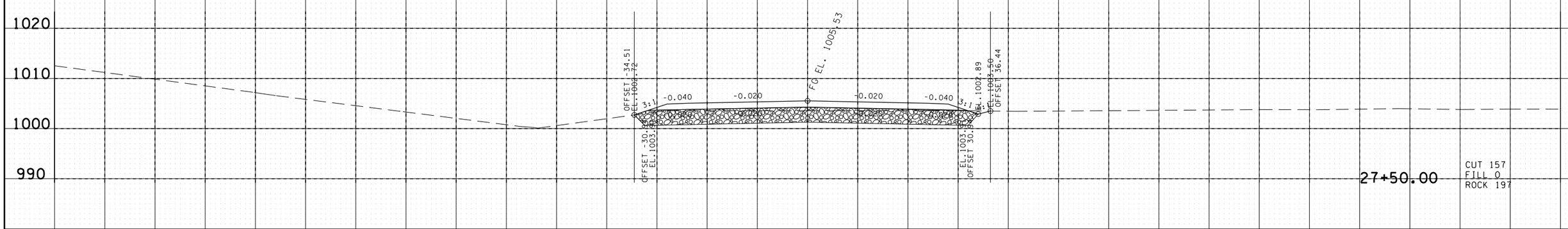
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	40
CONST.	2015	26952-3509-04	39







ACCESS ROAD
BEGIN STA. 27+50.00
END STA. 28+50.00

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26-OCT-2015 13:47
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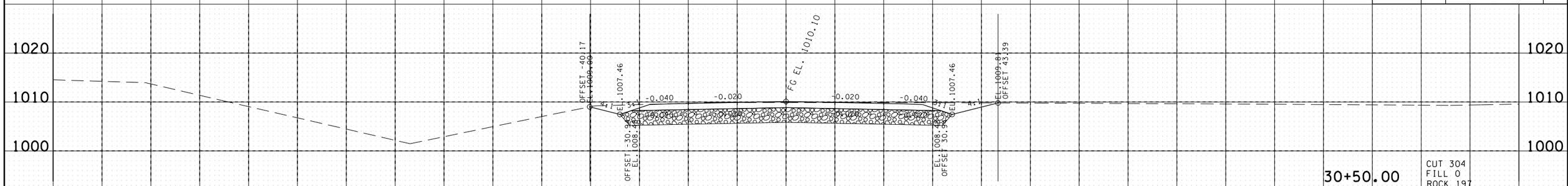
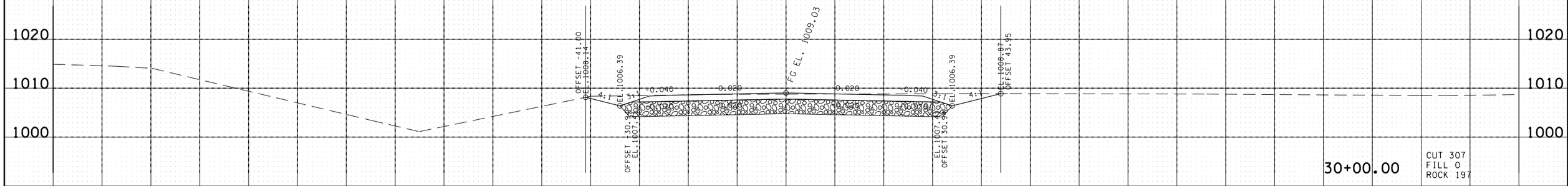
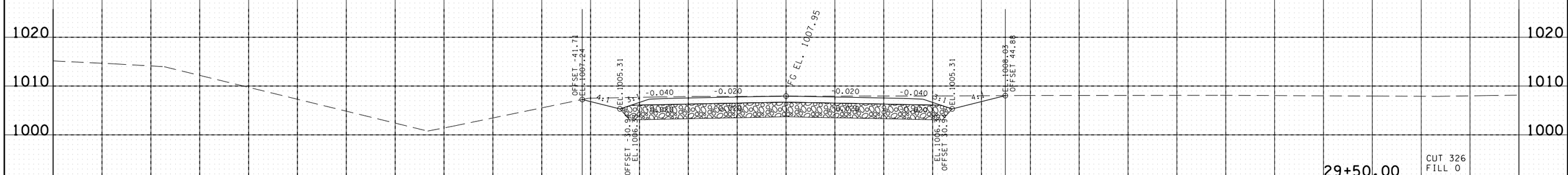
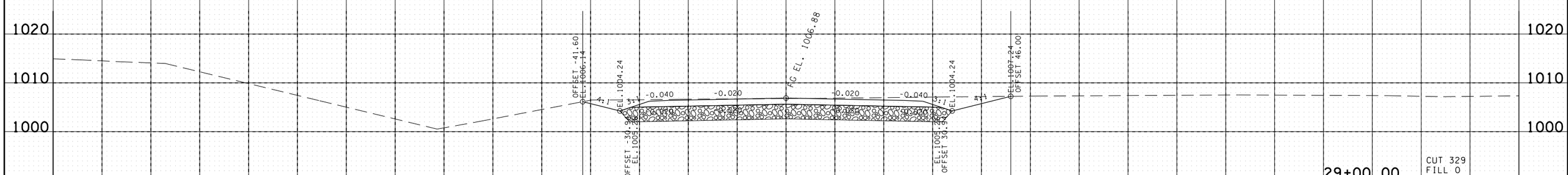
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	41
CONST.	2015	26952-3509-04	40









ACCESS ROAD
BEGIN STA. 29+00.00
END STA. 30+50.00

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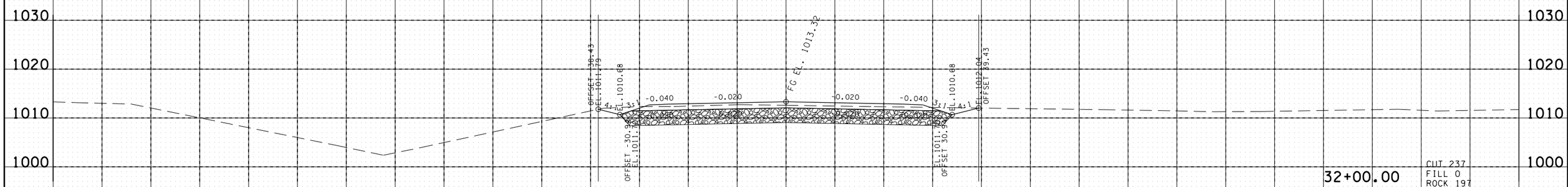
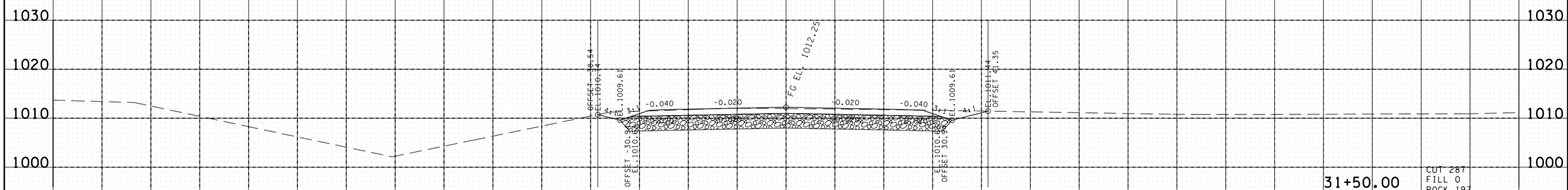
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	42
CONST.	2015	26952-3509-04	41



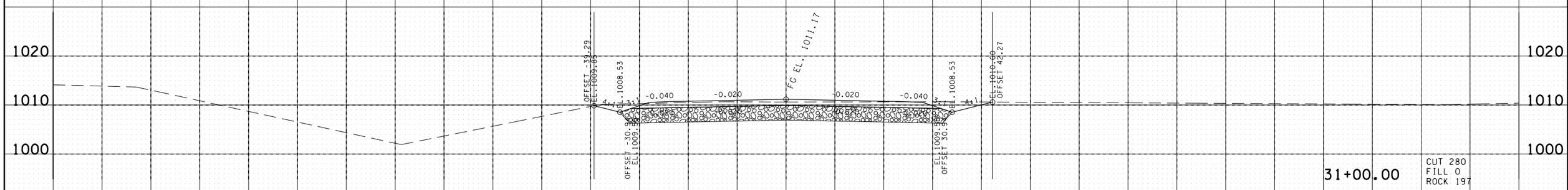
32+00.00

CUT 237
FILL 0
ROCK 197



31+50.00

CUT 287
FILL 0
ROCK 197



31+00.00

CUT 280
FILL 0
ROCK 197

ACCESS ROAD
BEGIN STA. 31+00.00
END STA. 32+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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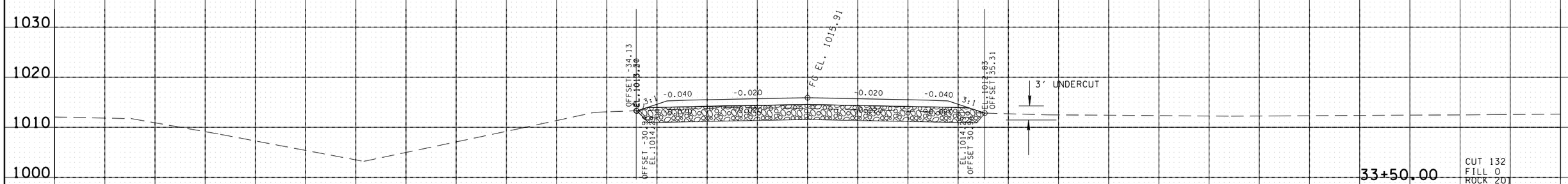
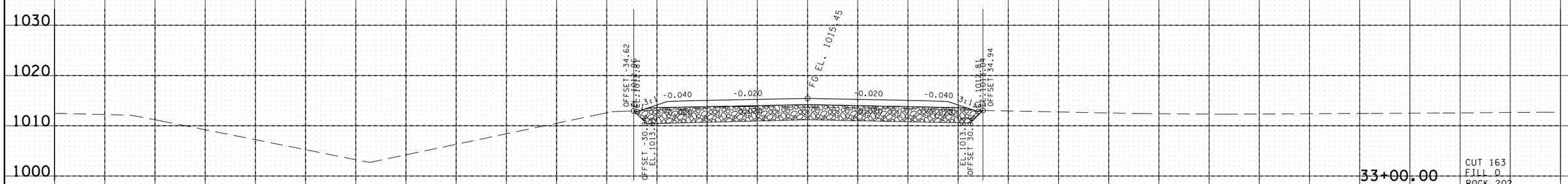
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	43
CONST.	2015	26952-3509-04	42

END 3' UNDERCUT STA. 33+75



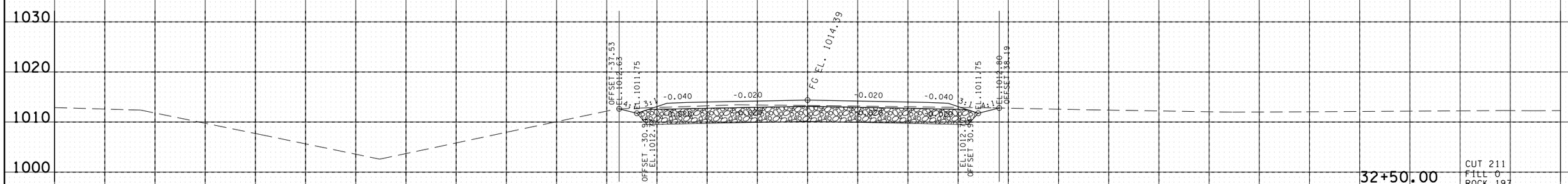
33+50.00

CUT 132
FILL 0
ROCK 201



33+00.00

CUT 163
FILL 0
ROCK 202



32+50.00

CUT 211
FILL 0
ROCK 197

ACCESS ROAD
BEGIN STA. 32+50.00
END STA. 33+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

26-OCT-2015 13:47
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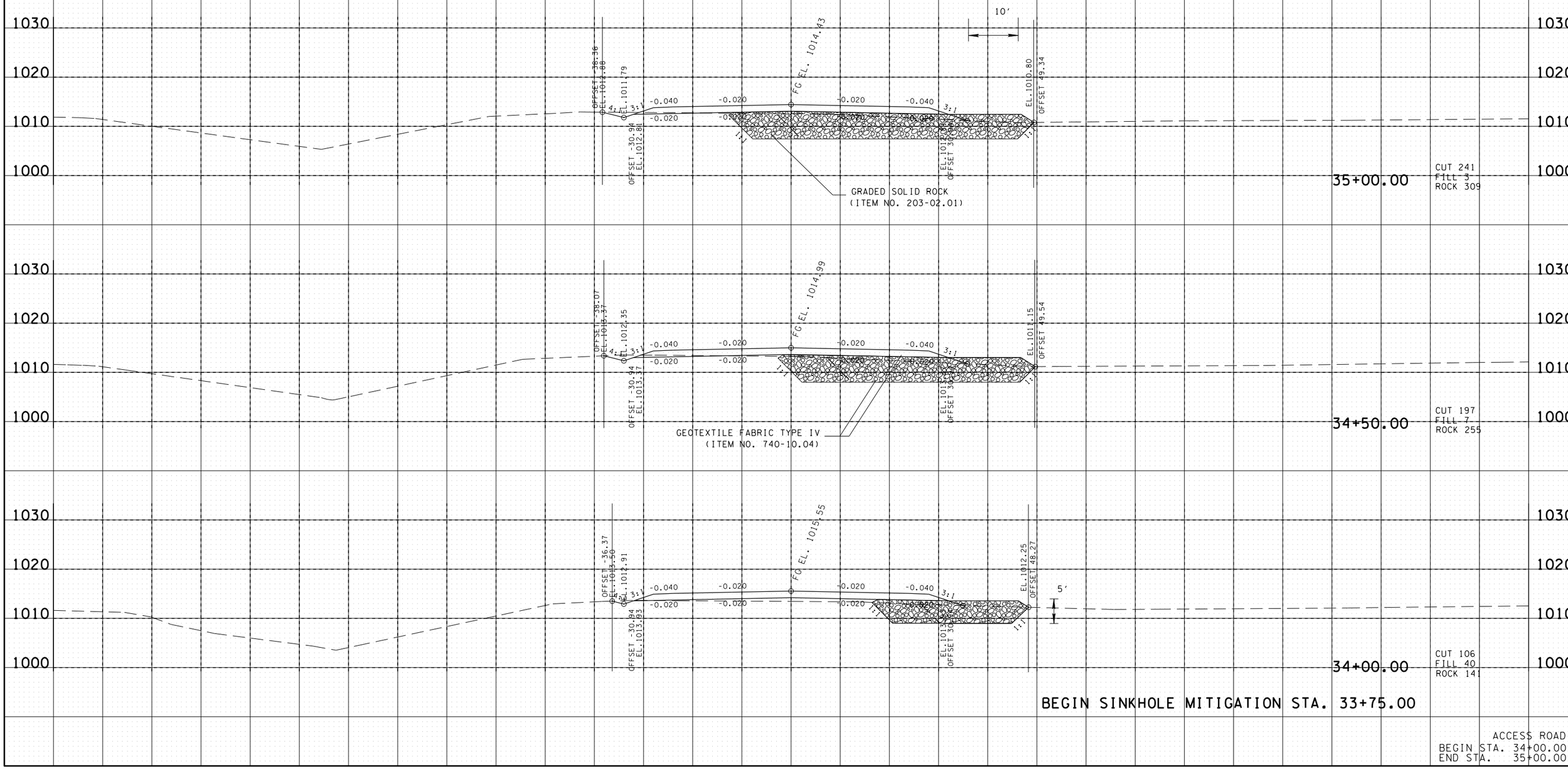
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	44
CONST.	2015	26952-3509-04	43

NO. 57 STONE LAYER NOT SHOWN.
SEE SHEET NO. 26 FOR DETAILS.



ACCESS ROAD
BEGIN STA. 34+00.00
END STA. 35+00.00

26-OCT-2015 13:47
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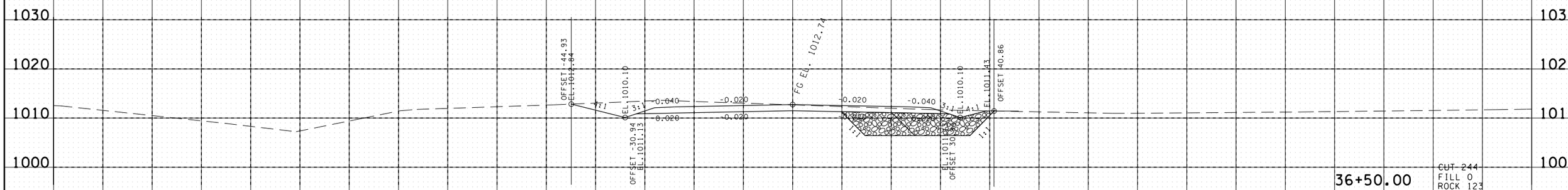
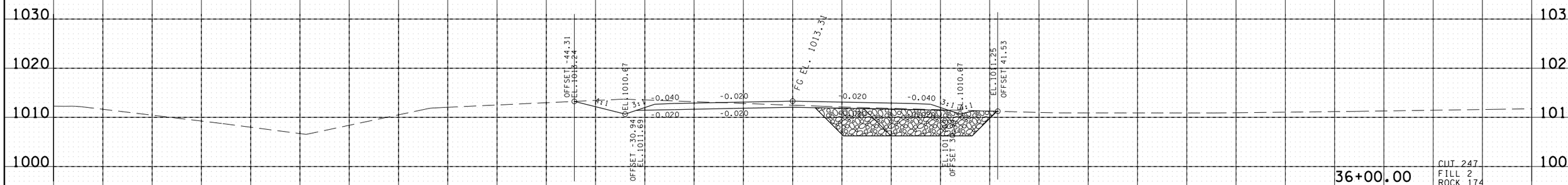
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	45
CONST.	2015	26952-3509-04	44

NO. 57 STONE LAYER NOT SHOWN.
SEE SHEET NO. 26 FOR DETAILS.



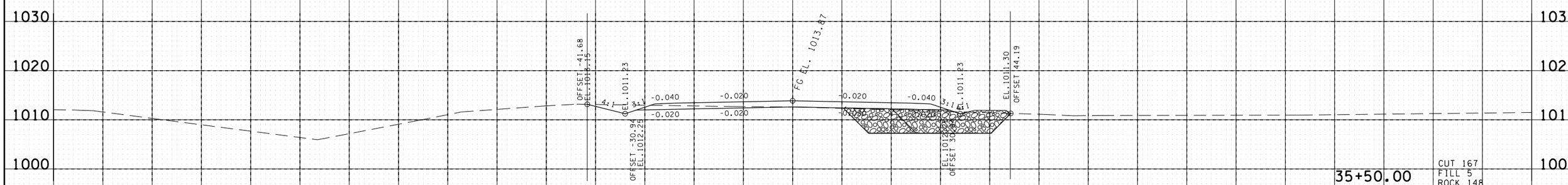
36+50.00

CUT 244
FILL 0
ROCK 123



36+00.00

CUT 247
FILL 2
ROCK 174



35+50.00

CUT 167
FILL 5
ROCK 148

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

ACCESS ROAD
BEGIN STA. 35+50.00
END STA. 36+50.00

26-OCT-2015 13:47
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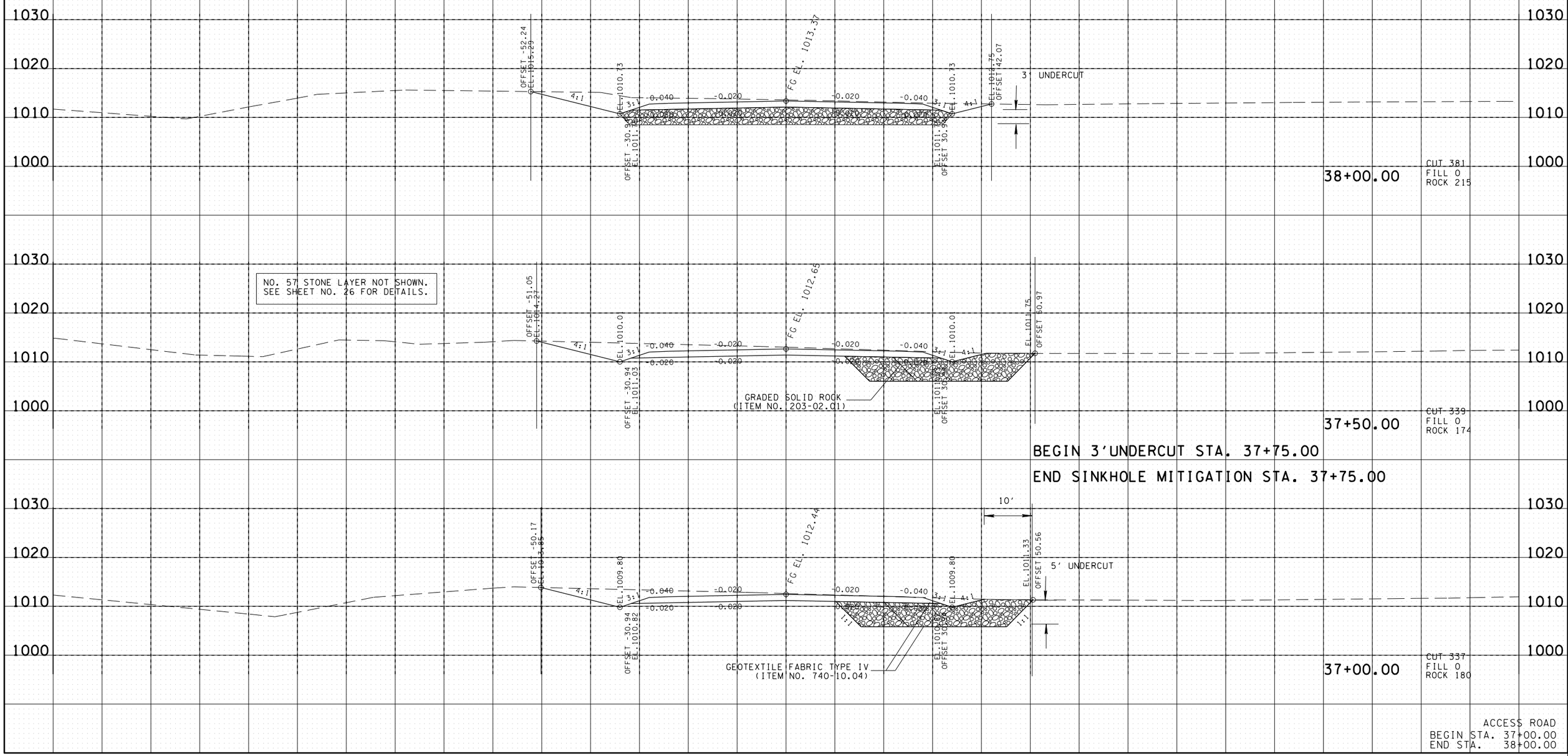
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	46
CONST.	2015	26952-3509-04	45



ACCESS ROAD
BEGIN STA. 37+00.00
END STA. 38+00.00

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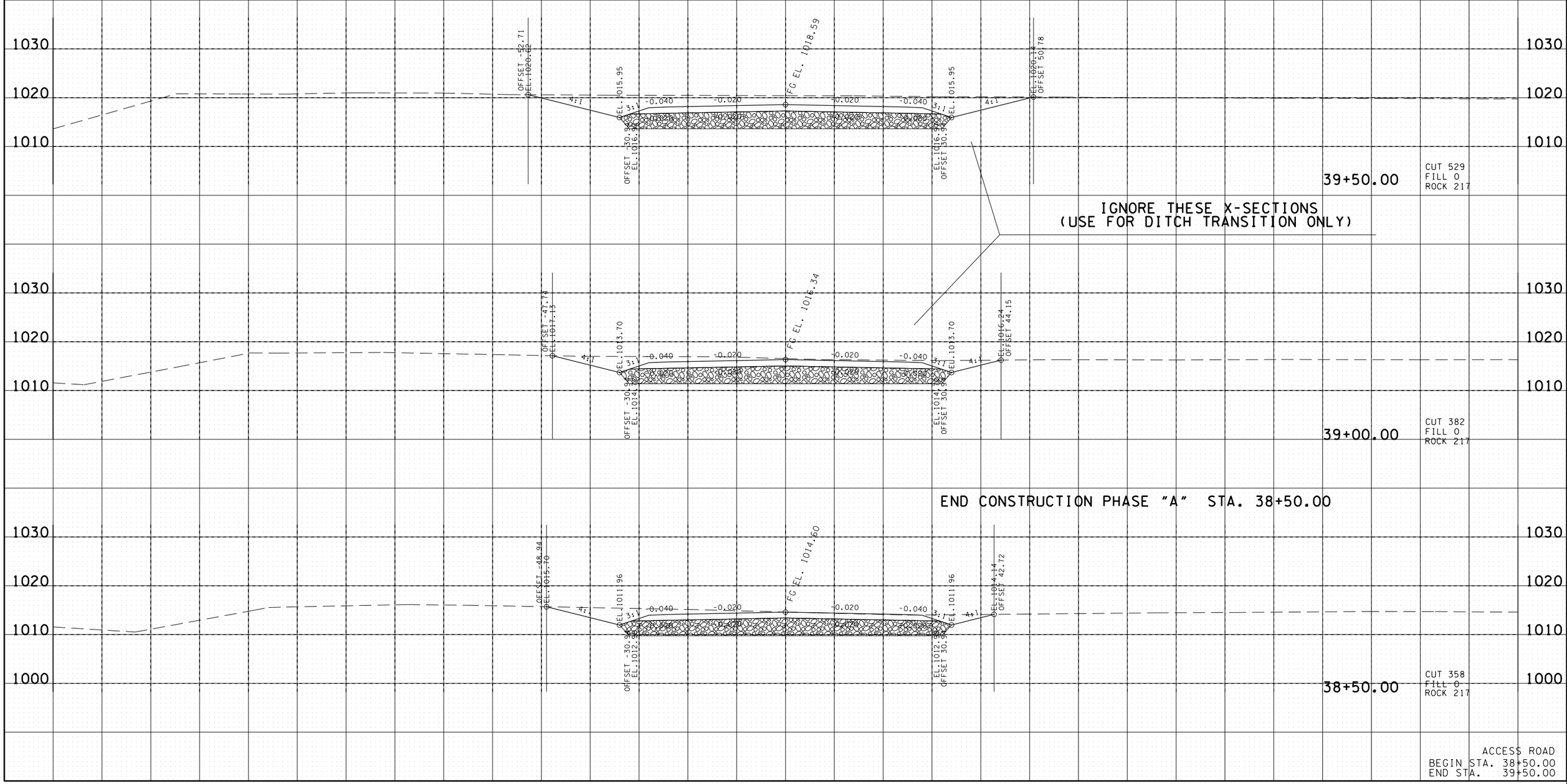
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	47
CONST.	2015	26952-3509-04	46



ACCESS ROAD
BEGIN STA. 38+50.00
END STA. 39+50.00

26-OCT-2015 13:47
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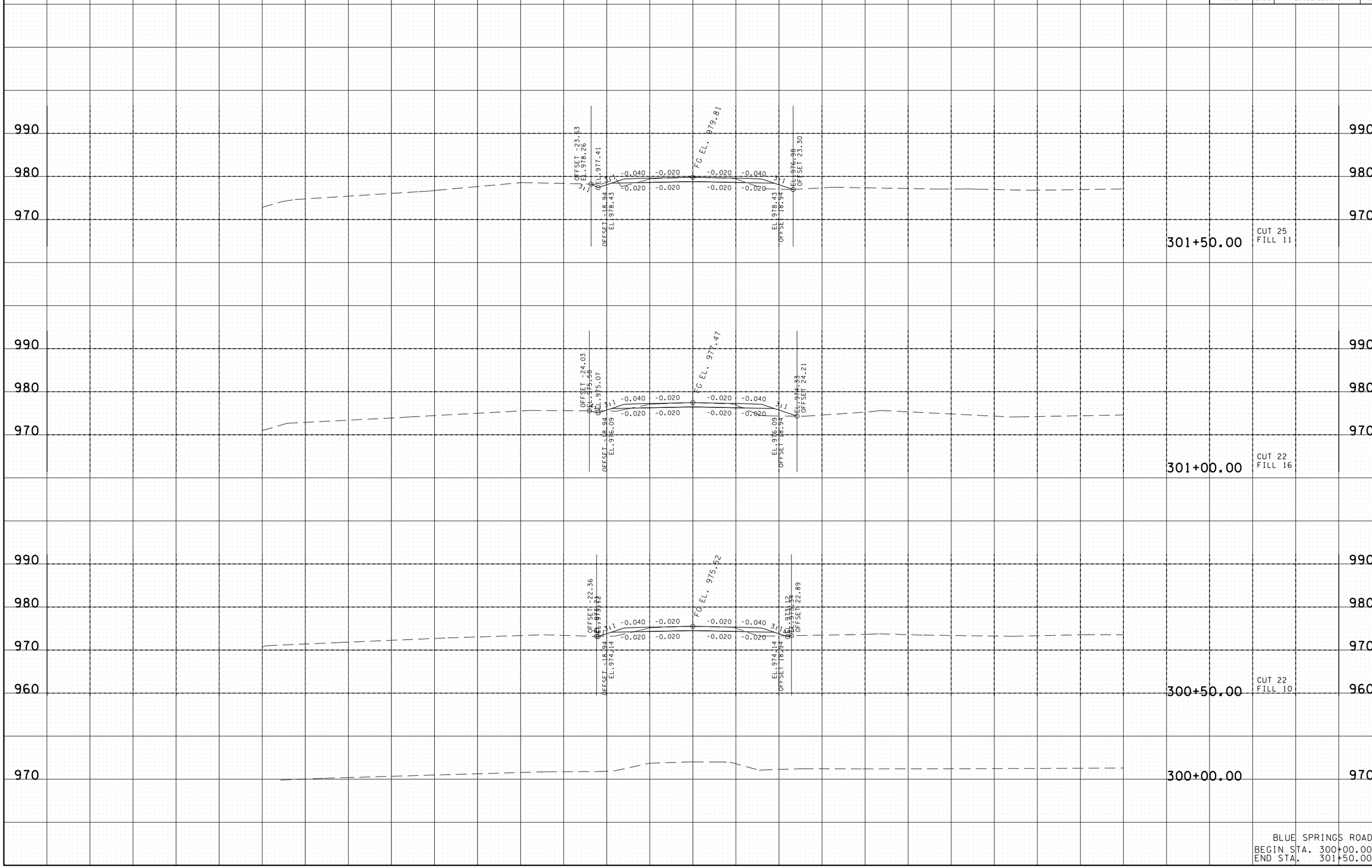
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	70
CONST.	2015	26952-3509-04	47



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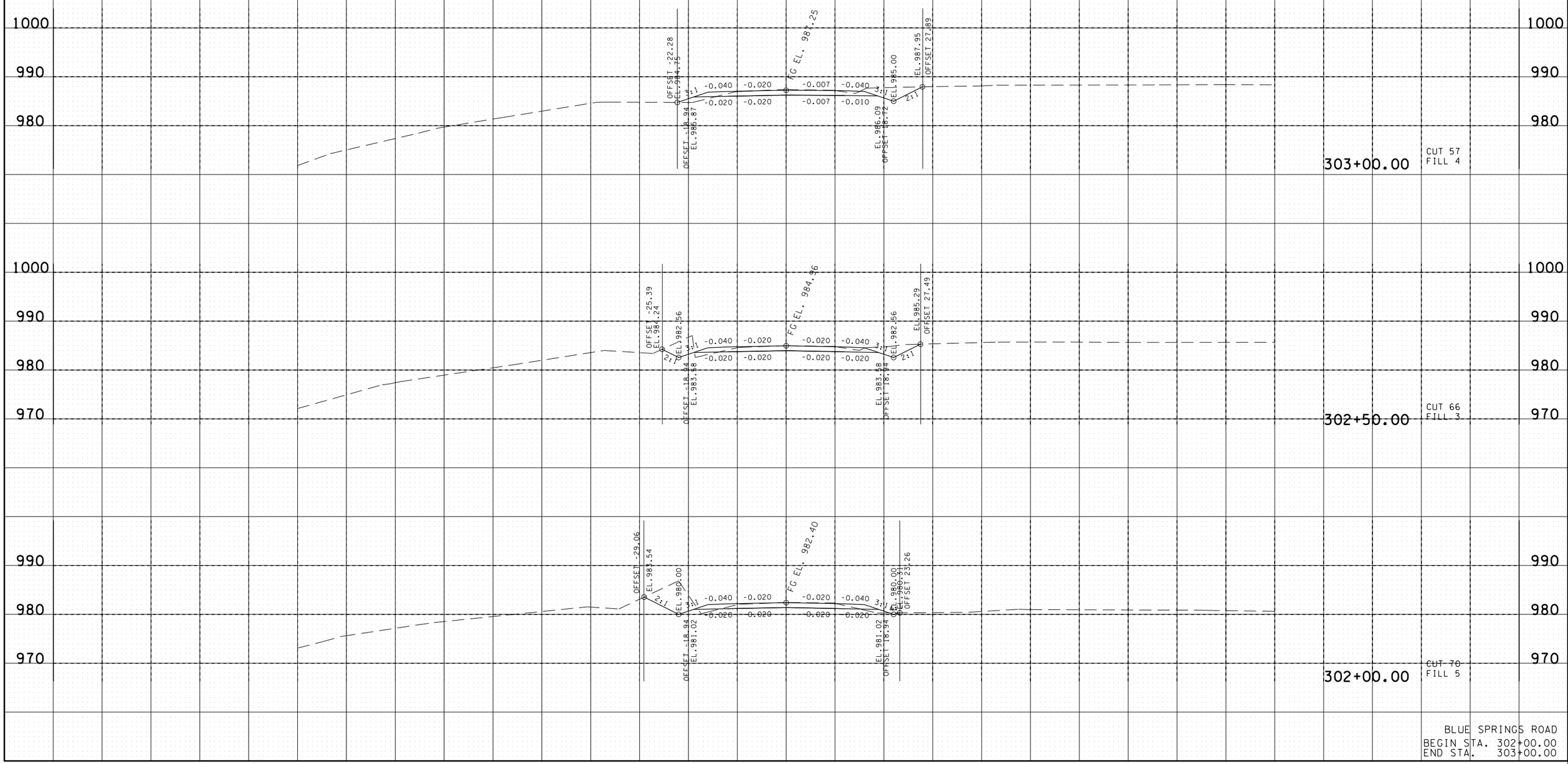
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	71
CONST.	2015	26952-3509-04	48



BLUE SPRINGS ROAD
BEGIN STA. 302+00.00
END STA. 303+00.00

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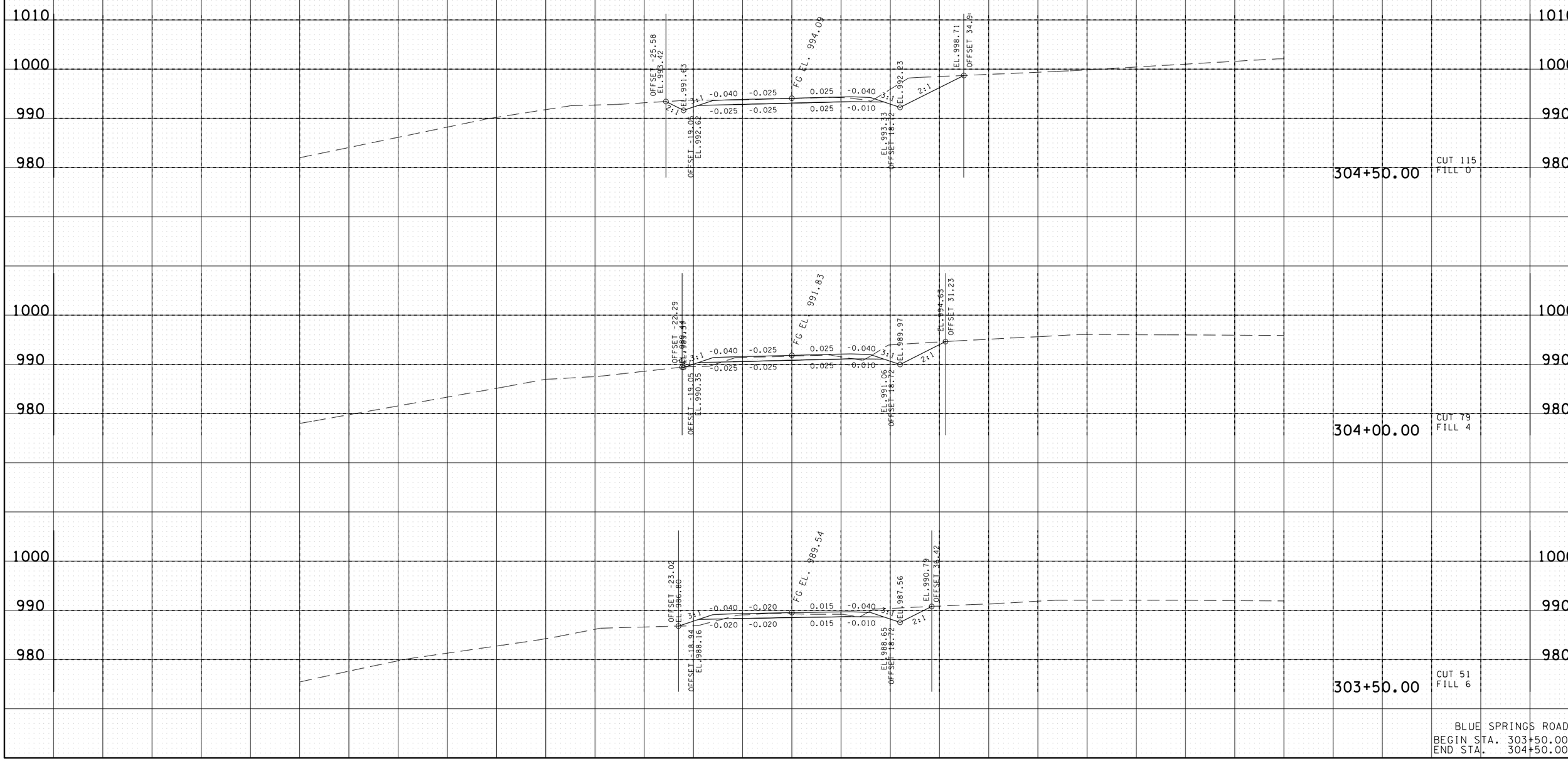
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	72
CONST.	2015	26952-3509-04	49



BLUE SPRINGS ROAD
BEGIN STA. 303+50.00
END STA. 304+50.00

26-OCT-2015 13:48
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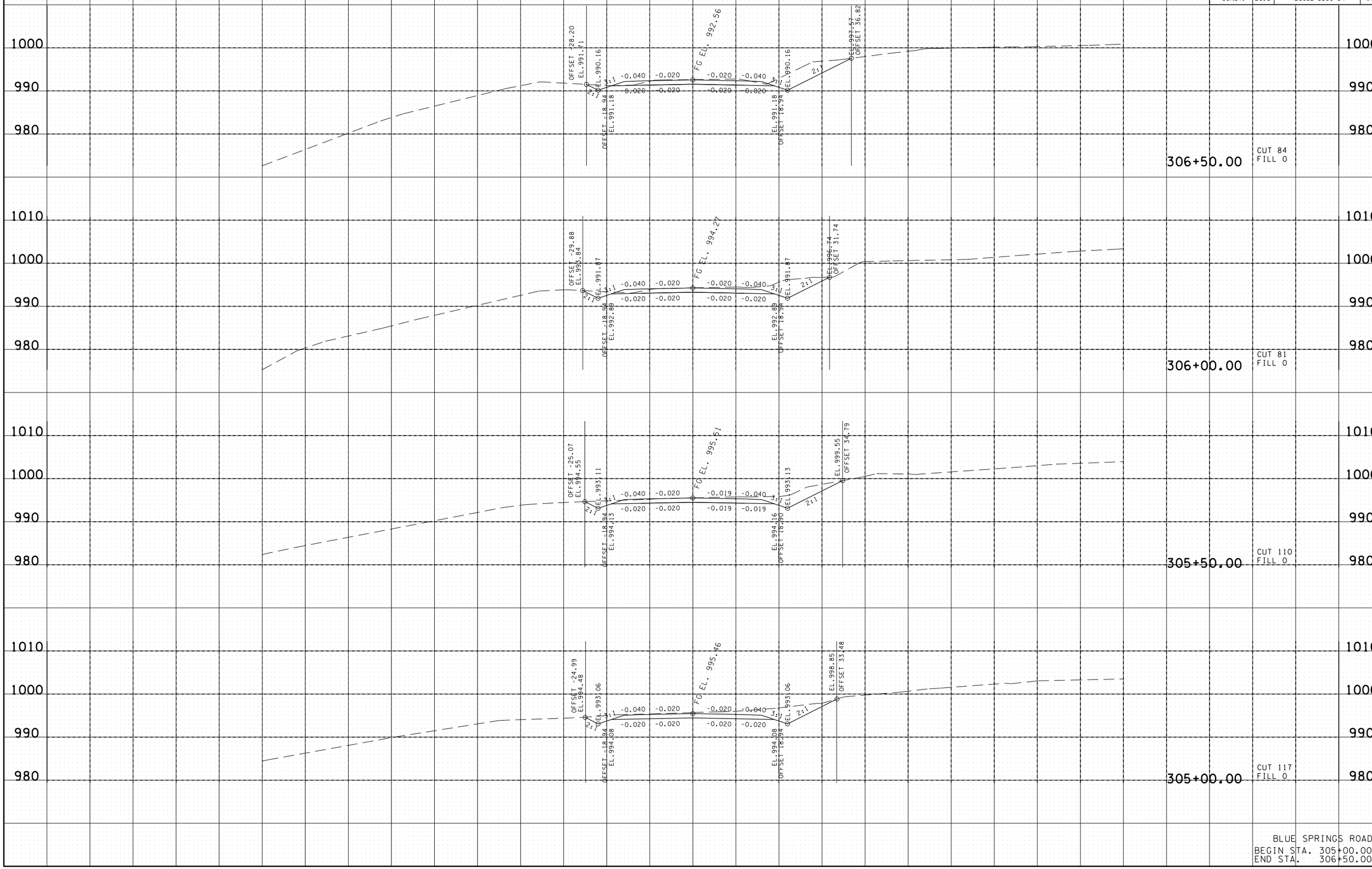
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	73
CONST.	2015	26952-3509-04	50



BLUE SPRINGS ROAD
BEGIN STA. 305+00.00
END STA. 306+50.00

26-OCT-2015 13:48
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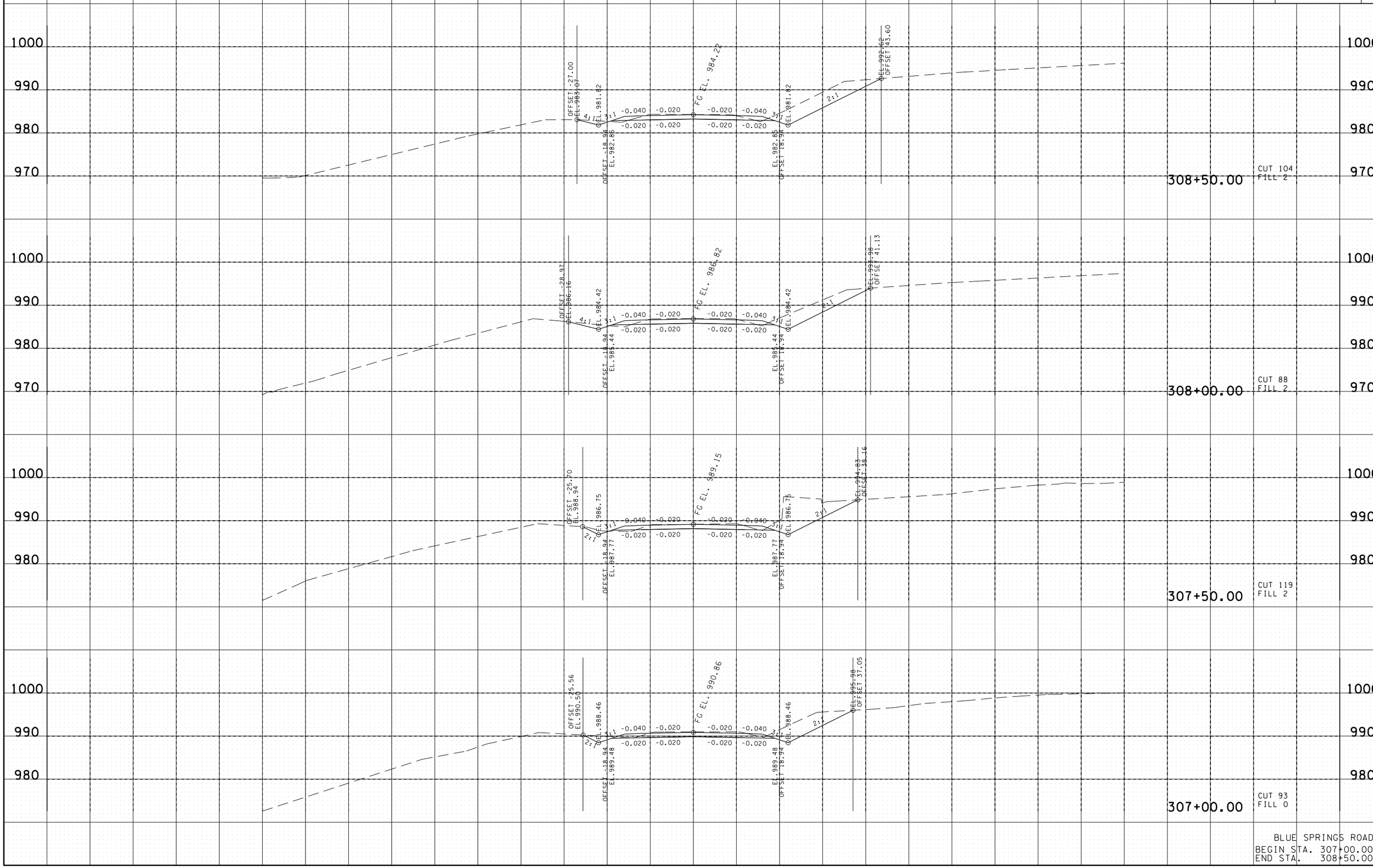
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	74
CONST.	2015	26952-3509-04	51



BLUE SPRINGS ROAD
BEGIN STA. 307+00.00
END STA. 308+50.00

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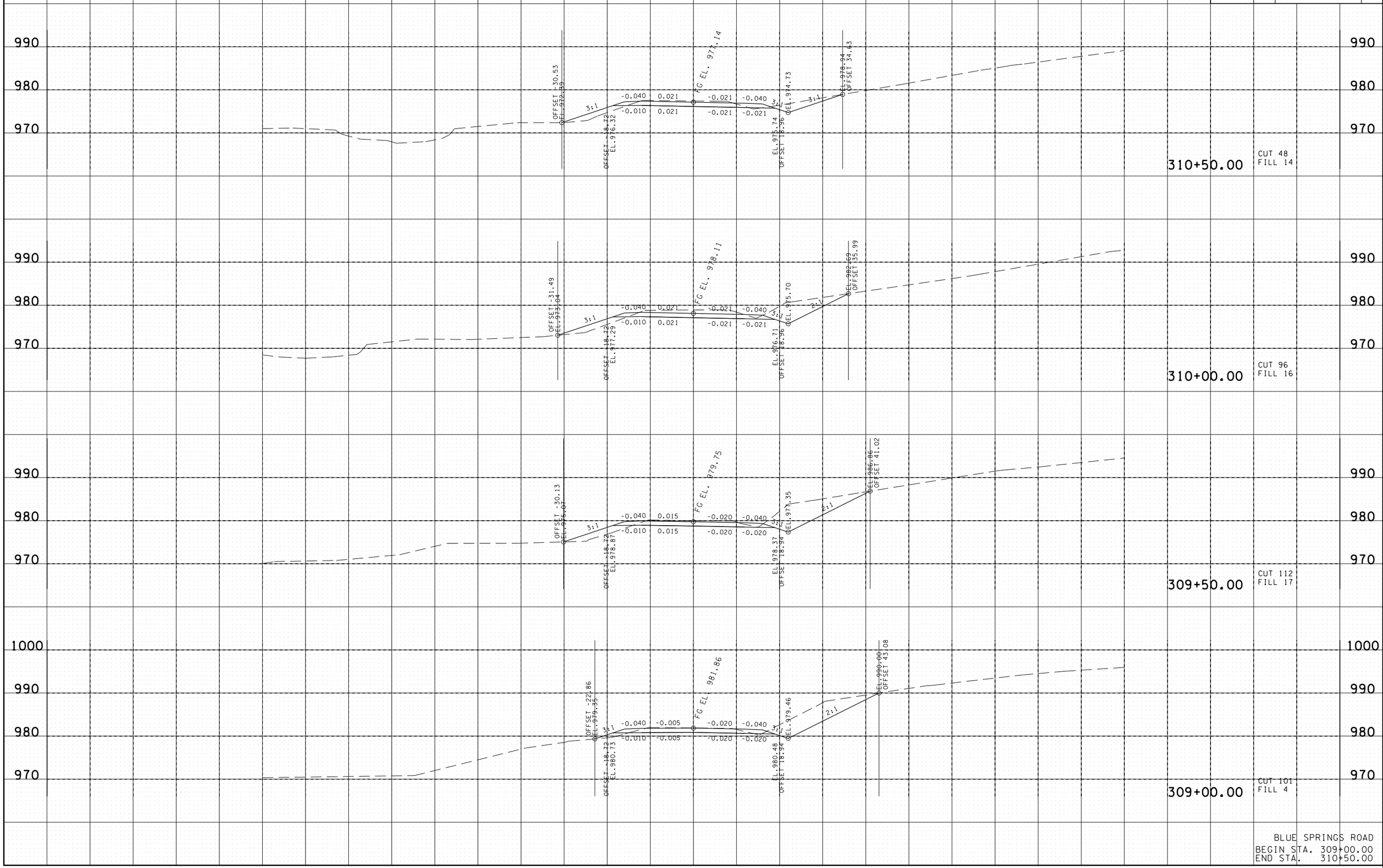
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	75
CONST.	2015	26952-3509-04	52



BLUE SPRINGS ROAD
BEGIN STA. 309+00.00
END STA. 310+50.00

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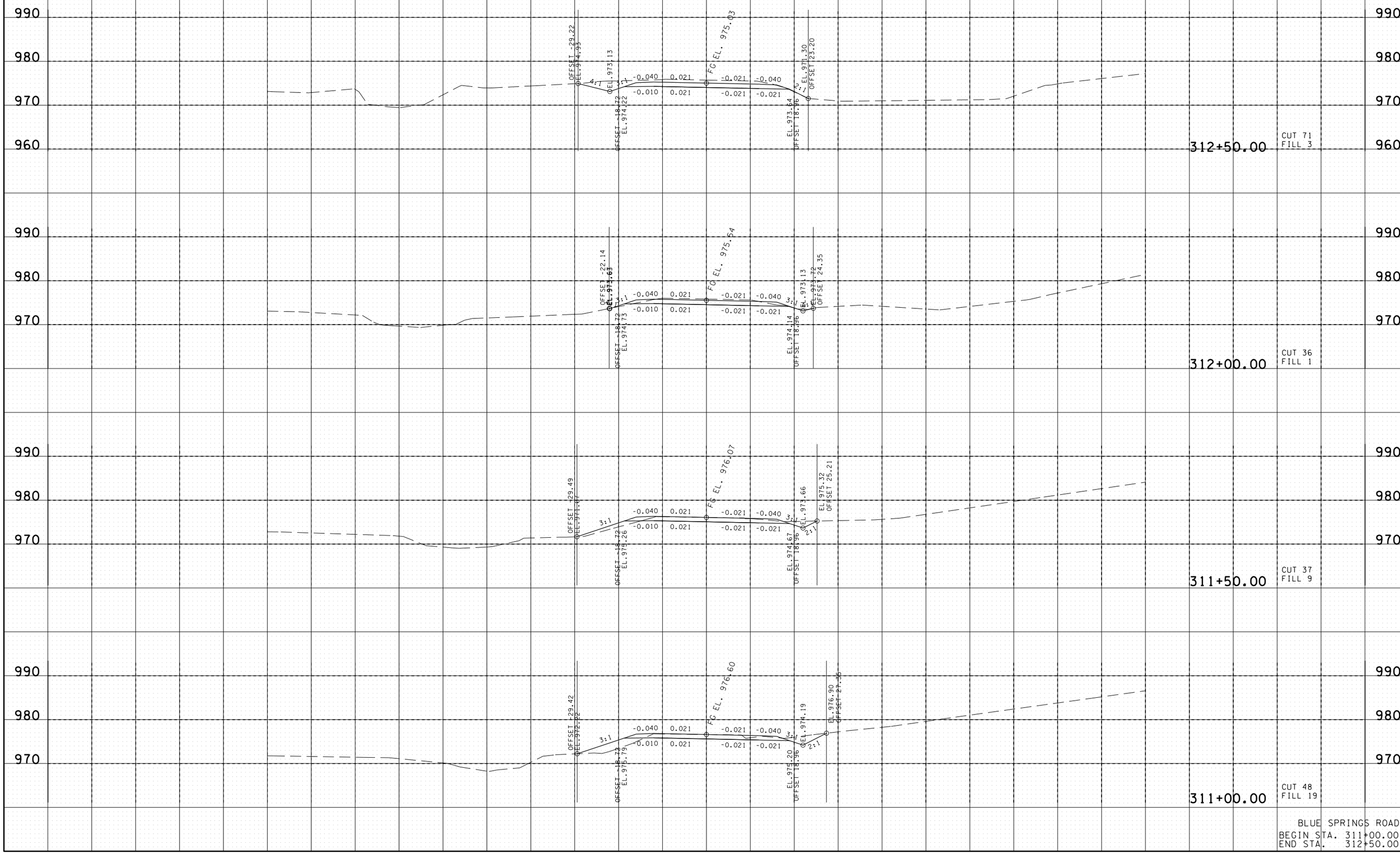
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	76
CONST.	2015	26952-3509-04	53



BLUE SPRINGS ROAD
BEGIN STA. 311+00.00
END STA. 312+50.00

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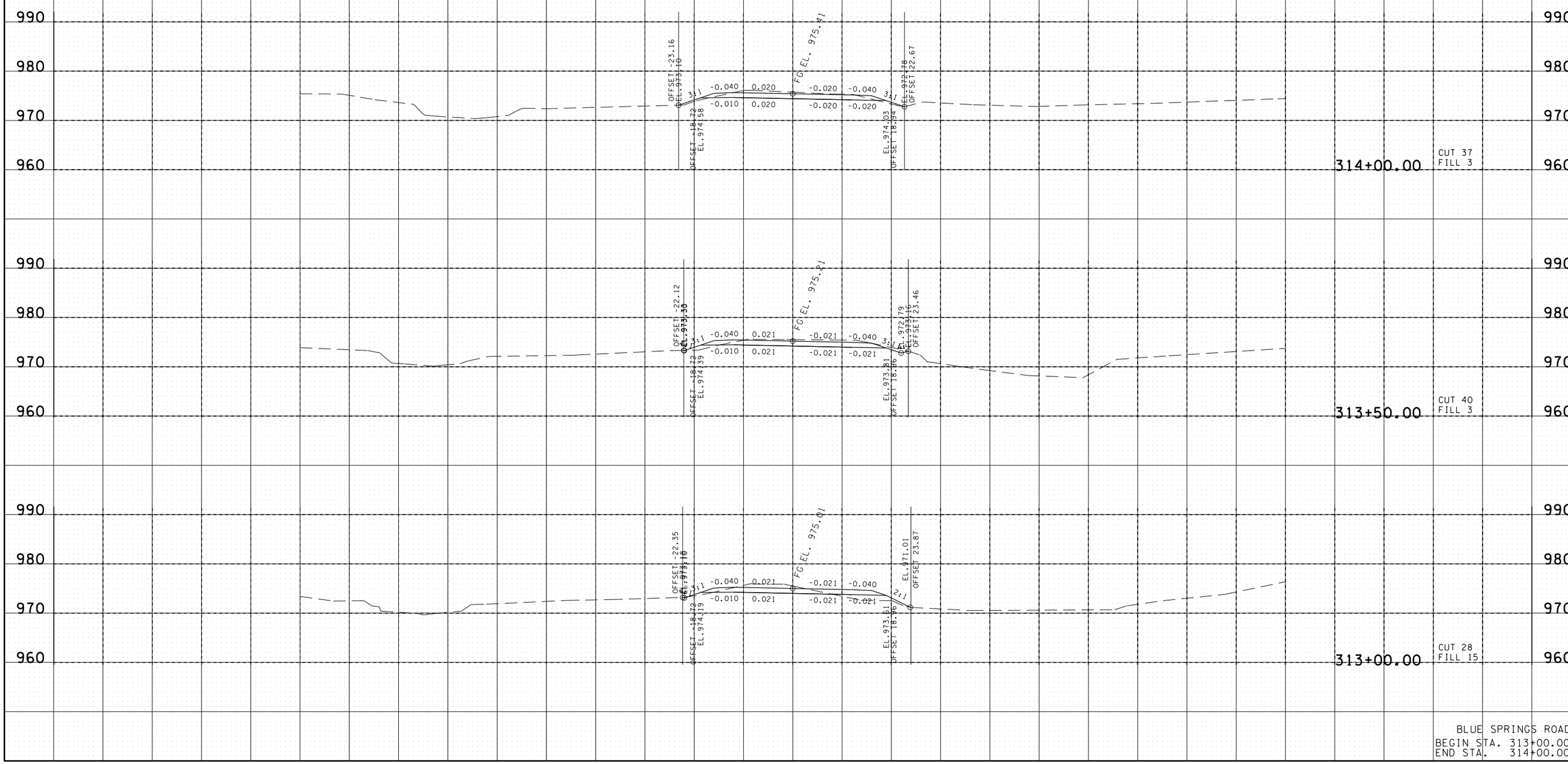
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	77
CONST.	2015	26952-3509-04	54



BLUE SPRINGS ROAD
BEGIN STA. 313+00.00
END STA. 314+00.00

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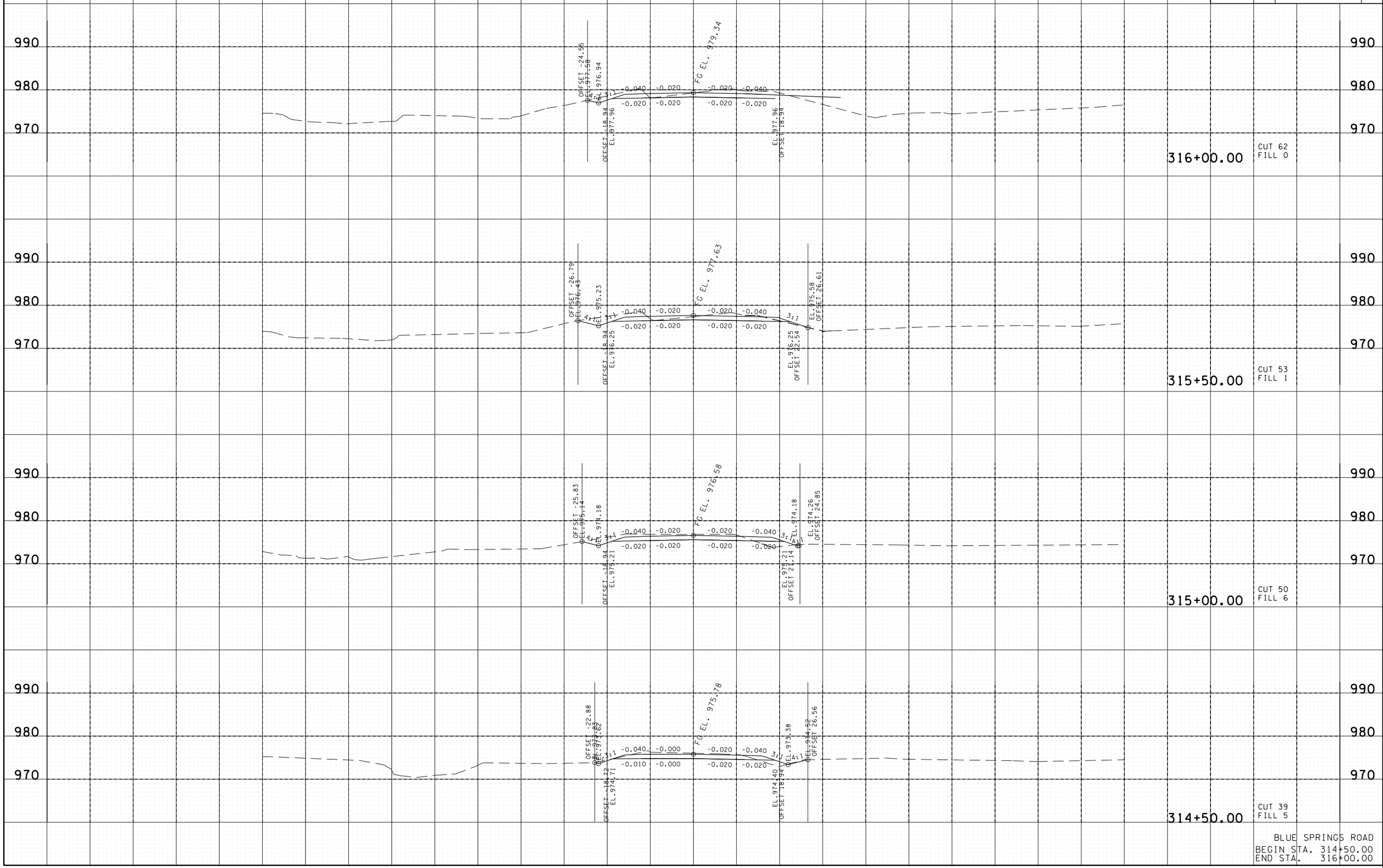
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	78
CONST.	2015	26952-3509-04	55



BLUE SPRINGS ROAD
BEGIN STA. 314+50.00
END STA. 316+00.00

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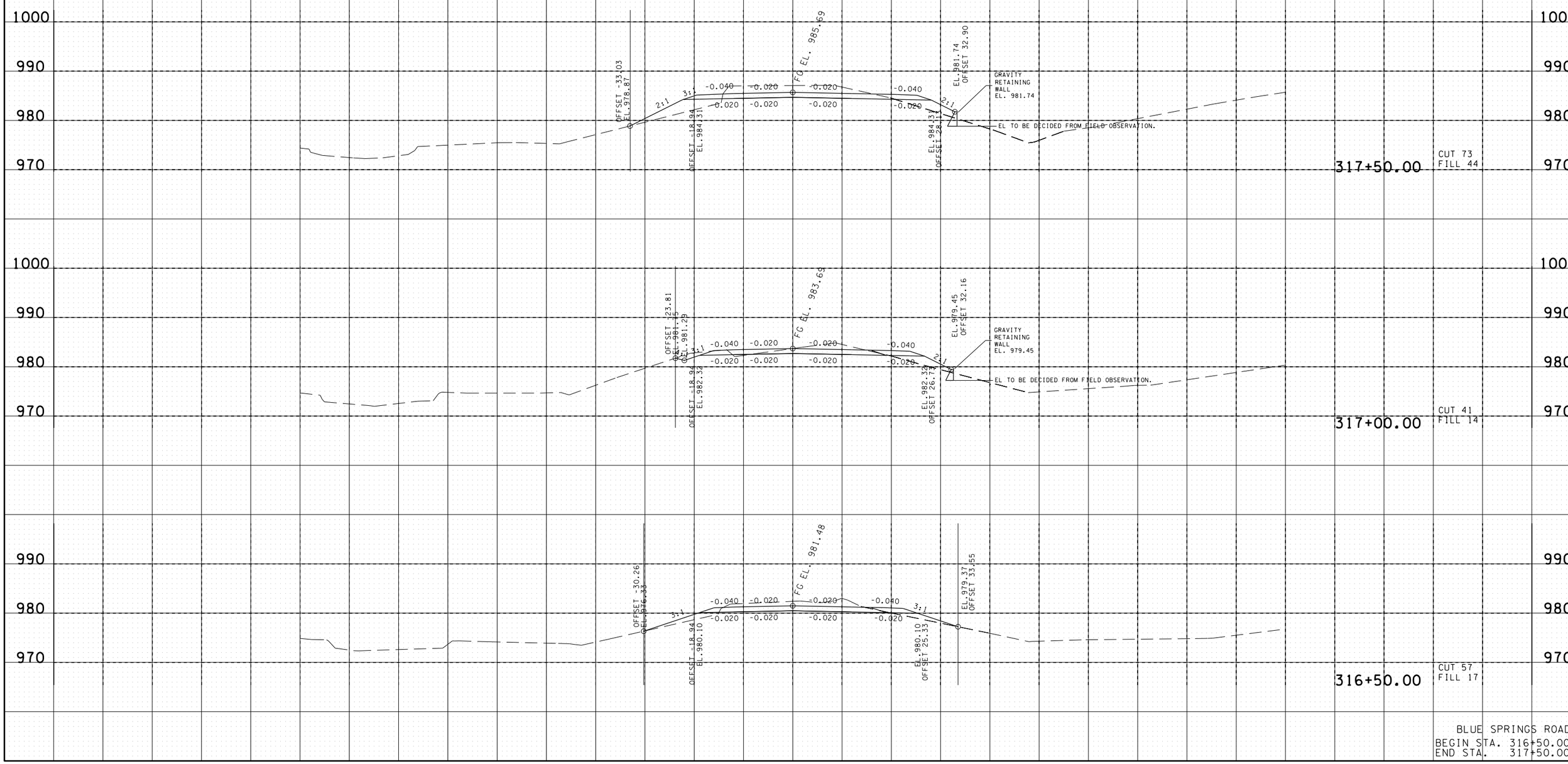
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	79
CONST.	2015	26952-3509-04	56



BLUE SPRINGS ROAD
BEGIN STA. 316+50.00
END STA. 317+50.00

26-OCT-2015 13:48
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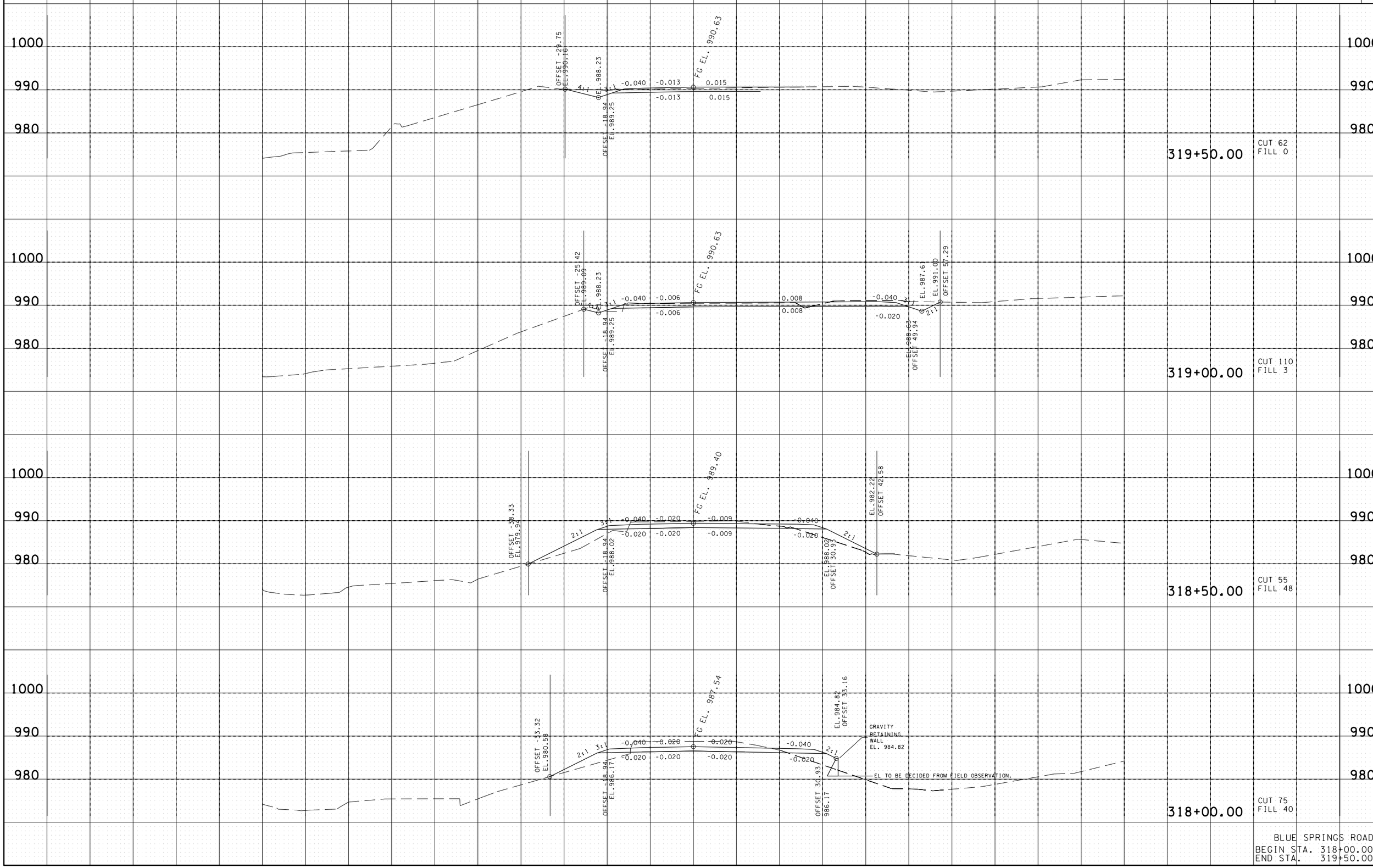
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	80
CONST.	2015	26952-3509-04	57



BLUE SPRINGS ROAD
BEGIN STA. 318+00.00
END STA. 319+50.00

26-OCT-2015 13:48
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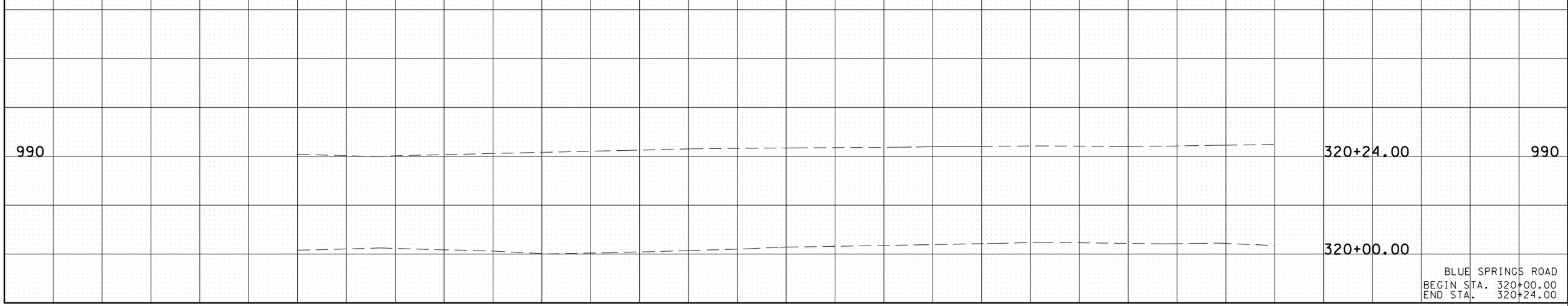
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	26952-2509-04	81
CONST.	2015	26952-3509-04	58

ELD OBSERVATION.



BLUE SPRINGS ROAD
BEGIN STA. 320+00.00
END STA. 320+24.00

26-OCT-2015 13:48
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