Index Of Sheets

SEE SHEET 1A

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	N.A.	
STATE PROJ. NO.	38016-3206-04	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAYWOOD-FAYETTE COUNTIES

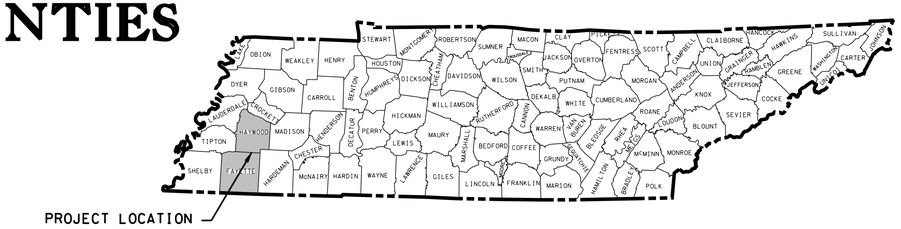
SR-222

FROM NORTH OF I-40
TO SOUTH OF CAMP GROUND RD

CONSTRUCTION

GRADE, DRAIN, PAVE, SIGN & STRIPE

STATE HIGHWAY NO. 222 F.A.H.S. NO. N/A



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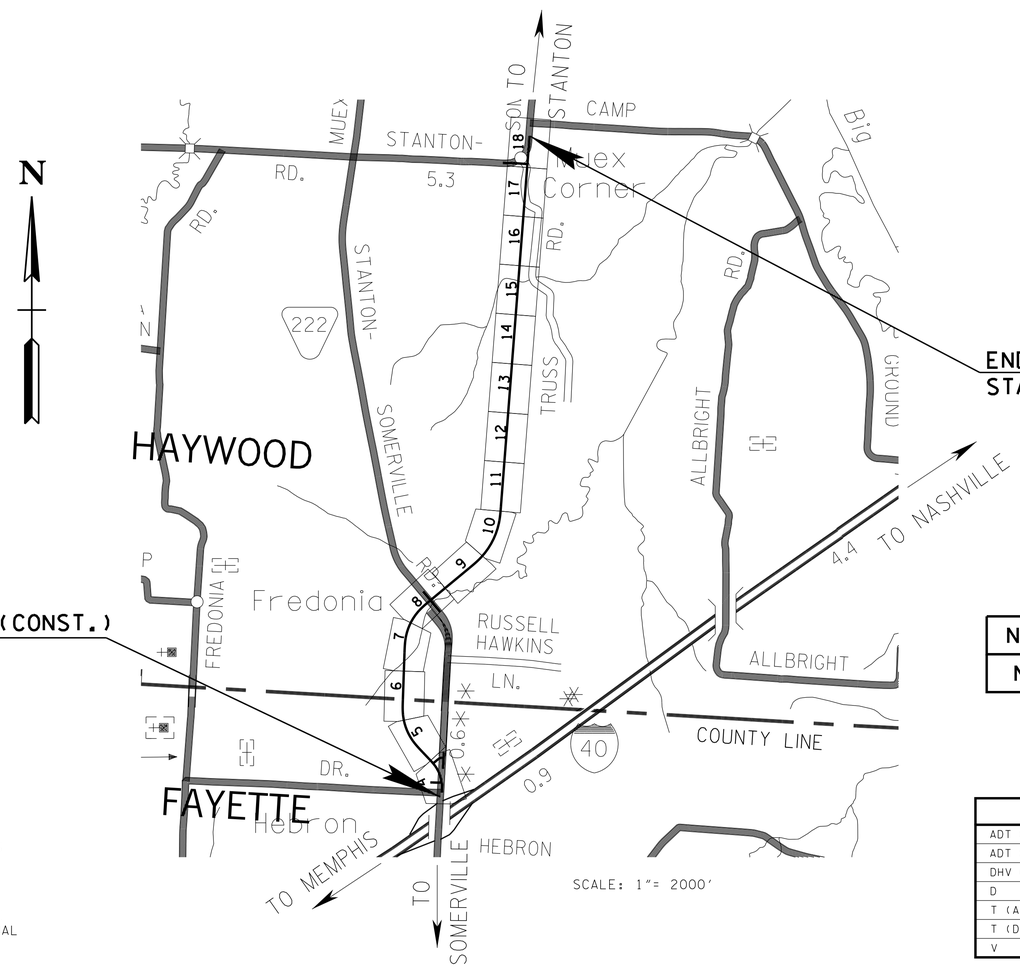

END PROJ. NO. 38016-3206-04 (CONST.)
STA. 440+50.00

~~END PROJ. NO. 1M-40-1 (328)~~
~~24001-0147-44 (CONST.)~~
BEGIN PROJ. NO. 38016-3206-04 (CONST.)
STA. 254+70.46

SEALED BY

NO EXCLUSIONS
NO EQUATIONS

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

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

TDOT C.E. MANAGER 1 OR
TDOT DESIGN MANAGER 1 TABITHA T. CAVANESS, P.E.

DESIGNED BY THY, INC.

DESIGNER TECK TANG CHECKED BY KENNY YOUNG

P.E. NO. 38016-1206-04

PIN NO. 117402.00

TRAFFIC DATA	
ADT (2014)	14490
ADT (2034)	15960
DHV (2034)	1423
D	55 - 45
T (ADT)	10 %
T (DHV)	7 %
V	55 MPH

ROADWAY LENGTH	3.491 MILES
BRIDGE LENGTH	0.000 MILES
* BOX BRIDGE LENGTH	0.028 MILES
PROJECT LENGTH	3.491 MILES

* NOT INCLUDED IN PROJECT LENGTH
(LENGTH MEASURED ALONG MAINLINE)

ORIGINAL SURVEY: 09/26/2013

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TENN.	YEAR	SHEET NO.
	2013	1
FED. AID PROJ. NO.	N.A.	
STATE PROJ. NO.	38016-1206-04	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAYWOOD-FAYETTE

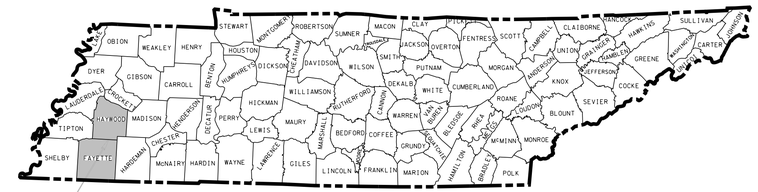
SR-222, FROM NORTH OF I-40
TO SOUTH OF CAMP GROUND RD

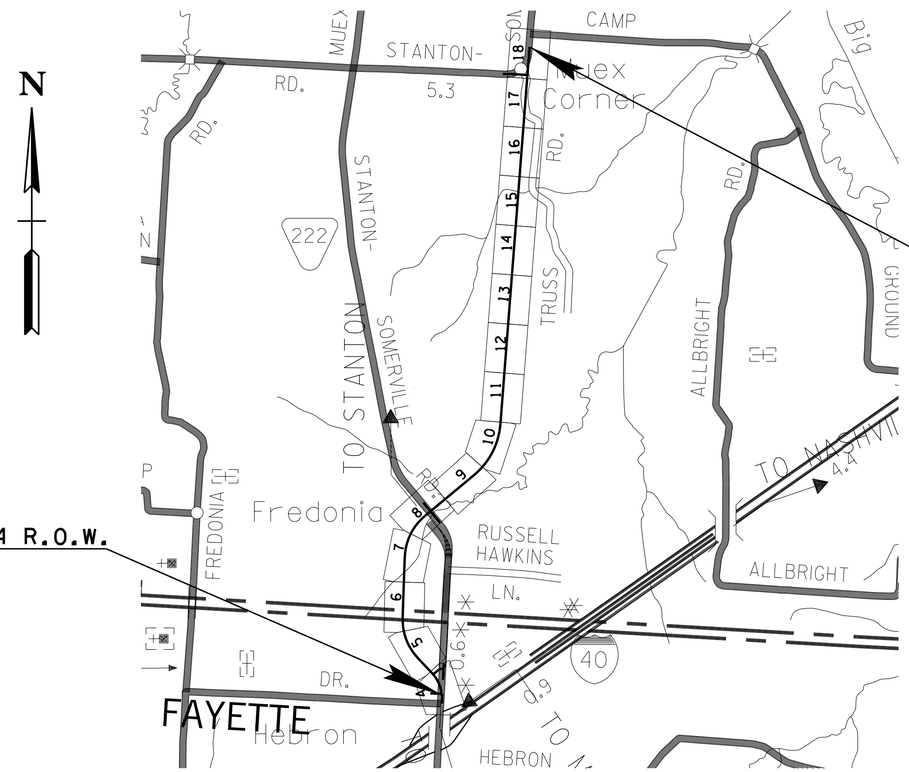
UTILITY PLANS

STATE HIGHWAY NO. 222 F.A.H.S. NO. -

Index Of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2D	TYPICAL SECTION
3-3D	PROPERTY MAP
4-18	PRESENT LAYOUT
4A-18A	PROPOSED LAYOUT
4B-18B	PROFILE
19-20	SIDE ROAD PROFILE
21-24	DRAINAGE MAP
25-38	CULVERT SECTIONS





SCALE: 1"= 2000'

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SEALED BY

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

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TDOT C.E. MANAGER 1 OR
TDOT DESIGN MANAGER 1 JANE JONES

DESIGNED BY THY, INC.
DESIGNER TECK TANG CHECKED BY

P.E. NO. 38016-1206-04

PIN NO. 117402.00

TRAFFIC DATA	
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D	55 - 45
T (ADT)	10 %
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V	55 MPH

R.O.W. LENGTH 3.466 MILES

DATE OF SURVEY: SEPT. 2013

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	1A

REV. 08-12-14: UPDATED SHEET NOS. FOR SIDE ROAD CROSS SECTIONS.

INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A – 1B
ESTIMATED ROADWAY QUANTITIES	2
"SHEET NOT USED"	2A
TYPICAL SECTIONS AND PAVING SCHEDULE	2B – 2G
GENERAL NOTES AND SPECIAL NOTES	2H – 2K
TABULATED QUANTITIES	2L, 2M
RETAINING WALL CONCEPTUAL DRAWING	2N – 2P
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES	3, 3A – 3D
PRESENT LAYOUTS	4 - 18
PROPOSED LAYOUTS	4A - 18A
PROPOSED PROFILES	4B - 18B
PUBLIC SIDE ROADS	19 - 21
PRIVATE DRIVE AND FIELD RAMP PROFILES	22
DRAINAGE MAPS	23 - 26
CULVERT SECTIONS	27 - 39
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS	40 – 49
	42A – 49A
	42B – 49B
TRAFFIC CONTROL PLANS WITH CONSTRUCTION PHASING NOTES	50, 50A – 50D
SIGNING AND PAVEMENT MARKING PLANS	51, 51A – 51N
SIGN SCHEDULE SHEETS	52, 52A – 52C
SOILS SHEETS	53, 53A – 53BA
ROADWAY CROSS SECTIONS	54 - 161
SIDE ROAD CROSS SECTIONS	162 - 170
UTILITIES INDEX	U1-1
STORM WATER POLLUTION PREVENTION PLAN (SWPP) INDEX	S-1

STANDARD ROADWAY DRAWINGS

BRIDGE APPURTENANCES (BOX CULVERTS)

DWG. NO	REV.	DESCRIPTION
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS THAN 45 DEG
STD-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' – 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-14		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTION
STD-17-17		BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-19		PAVED OUTLET DETAILS
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-23		SIDEWALK AND MISCELLANEOUS DETAILS
STD-17-24		WARPED SLOPE DETAIL
STD-17-28		END SECTION DETAILS
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-53		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 6' - 8', 0 - 60' FILL
STD-17-55		BOX BRIDGE, 1 BARREL AT 10', CLEAR HTS. 7' - 10', 0 - 60' FILL
STD-17-57		BOX BRIDGE, 1 BARREL AT 12', CLEAR HTS. 7' - 9', 0 - 60' FILL
STD-17-100		BOX BRIDGE, 3 BARRELS AT 14', CLEAR HTS. 8' - 11', 0 - 60' FILL
STD-17-103		BOX BRIDGE, 3 BARRELS AT 16', CLEAR HTS. 9' - 12', 0 - 60' FILL

ROADWAY DESIGN STANDARDS

DWG. NO	REV.	DESCRIPTION
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-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
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	05-27-01	UNDERDRAIN LATERAL DETAILS
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-8		LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 SLOPES
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
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
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
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-2B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
RD01-TS-6	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER

DRAINAGE - CULVERTS AND ENDWALL

DWG. NO	REV.	DESCRIPTION
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-3B(1)	07-17-07	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPES GRATE (FOR 18" THRU 48" PIPES) (3:1 SLOPE)
D-PE-3B(2)	05-27-01	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 3:1 SLOPE
D-PE-4B(1)	03-30-00	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 4:1 SLOPE
D-PE-4B(2)	07-17-07	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 4:1 SLOPE
D-PE-6B(1)	03-30-00	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 6:1 SLOPE
D-PE-6B(2)	07-19-10	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 6:1 SLOPE
D-PE-9	04-25-90	CONCRETE ENDWALLS TYPE "B" (FOR ROUND & SIDE TAPERED INLETS, PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)
D-PE-9A	10-25-82	GENERAL DIMENSION QUANTITIES ROUND PIPE CONCRETE ENDWALLS TYPE "B" (PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)
D-PE-9B		GEN. DIMENSIONS AND QUANTITIES, SIDE TAPER INLETS CONCRETE ENDWALLS - TYPE "B" (PIPE SIZES 15" TO 78" ALL SKEWS 2:1 & 4:1 SLOPES)

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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.	2014	38016-3206-04	1B

D-PE-9C		BILL OF STEEL (SHEET 1 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEW, 2:1 SLOPE)
D-PE-9D		BILL OF STEEL (SHEET 2 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZES 15" - 78", ALL SKEWS, 4:1 SLOPE)
D-PE-9E		BILL OF STEEL (SHEET 3 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEWS, 2:1 SLOPE)
D-PE-9F		BILL OF STEEL (SHEET 4 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" TO 78", ALL SKEWS, 4:1 SLOPE)
D-PE-18A	06-14-13	18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-18B		18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-24A	06-14-13	24” CONCRRETE ENDWALL CROSS DRAIN
D-PE-24B		24” CONCRRETE ENDWALL CROSS DRAIN
D-PE-36A	06-14-13	36” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99		PIPE GRATE & SKEWED CONNECTION DETAILS FOR “U” ENDWALLSCONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-SEW-1A	01-10-13	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE
D-SEW-6DA	07-19-10	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" THRU 48" PIPES - 6:1 SLOPE
D-SEW-6DB	10-26-92	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" THRU 48" PIPES - 6:1 SLOPE
D-SEW-6DC	07-19-10	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 18" THRU 30" PIPES - 6:1 SLOPE
D-SEW-6DD	04-15-05	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 18" THRU 30" PIPES - 6:1 SLOPE
D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES - 12:1 SLOPE

DRAINAGE-CATCH BASINS AND MANHOLES

D-CB-25B	09-24-12	STANDARD RECTANGULAR BRICK NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 25LP CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25P	09-24-12	STANDARD PRECAST RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25RA	09-24-12	STANDARD PRECAST 48" CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25S	09-24-12	STANDARD RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SD	09-24-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-26P	09-24-12	STANDARD PRECAST RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-26S	09-24-12	STANDARD RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-SDS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 SPRING DRAIN BOX

ROADWAY AND PAVEMENT APPURTENANCES

RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS

SAFETY APPURTENANCES AND FENCE

S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES
S-PL-6		SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRT-2		TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R		EARTH PAD FOR TYPE 38 (RETROFIT)
S-GRT-4		TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 21, 13 AND IN-LINE TERMINAL
S-RP-2	01-19-99	STANDARD CONCRETE RIGHT-OF-WAY MARKERS

TRAFFIC CONTROL APPURTENANCES

T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	09-19-91	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	11-01-11	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-15A	11-01-11	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	11-01-11	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	10-10-06	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-S-9	11-01-11	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-23A	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
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-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-8	08-01-12	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
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-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	2

REV. 08-12-14: REVISED ITEM NO. FOR CHANGEABLE MESSAGE SIGN UNIT TO 713-16.01. REVISED QTYS. FOR ITEM NOS: 303-01, 307-02.01, 307-02.08, 402-01, 402-02, 403-01, AND 411-02.10 FOR ALT. "A" & ALT. "B". REVISED QTY. FOR ITEM 607-03.02.
REV. 09-16-14: DELETED ITEM NO. 202-01 AND ADDED ITEM 202-06.01. REVISED FOOTNOTE NO. 10.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
10	202-06.01	REMOVAL OF BUILDINGS (TRACT No. 9)	LS	1
	202-13	WATER WELL ABANDONMENT	EACH	1
9	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	312336
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	138824
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	27000
	203-04.02	STRIPPING & STOCKPILE TOPSOIL	C.Y.	27000
8	203-06	WATER	M.G.	2256
	204-08	FOUNDATION FILL MATERIAL	C.Y.	458
3, 4	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	1900
3, 4	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	200
3, 4	209-03.21	FILTER SOCK (12 INCH)	L.F.	10000
3, 4, 14	209-03.23	FILTER SOCK (24 INCH)	L.F.	9600
3, 4	209-05	SEDIMENT REMOVAL	C.Y.	2500
3, 4	209-06	BALED HAY OR STRAW EROSION CHECKS	BALE	9000
	209-06.02	12" DIA COIR LOG (LOW FLOW CHANNEL CONSTRUCTION)	L.F.	300
3, 4	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	15900
3, 4	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	56000
3, 4	209-08.07	ROCK CHECK DAM PER	EACH	8
3, 4, 15	209-08.08	ENHANCED ROCK CHECK DAM	EACH	116
3, 4	209-09.01	SANDBAGS	BAG	17000
3, 4	209-09.03	SEDIMENT FILTER BAG (15'X15')	EACH	20
3, 4	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	22
3, 4	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	1000
3, 4	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	3000
3, 4	209-40.34	CATCH BASIN PROTECTION (TYPE E)	EACH	22
3, 4	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	2200
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	3577
	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	6866
	303-01.03	GRANULAR BACKFILL (RETAINING WALLS)	TON	40
3, 4, 16	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	800
	303-10.03	MINERAL AGGREGATE (SIZE 68)	TON	250
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	3
	411-12.03	SCORING SHOULDERS (NON-CONTINUOUS) (8IN WIDTH)	L.M.	5
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	603
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	121400
	604-07.01	RETAINING WALL (STA. 257+45 to 258+03 RIGHT)	S.F.	266
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1808
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	158
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	277
	607-11.03	60" CONCRETE PIPE CULVERT (CLASS III)	L.F.	140
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	20
	611-02.01	SPRING DRAIN BOX, TYPE 1	EACH	1
	611-02.10	JUNCTION BOX, TYPE 1	EACH	2
7	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	27
7	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1996
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	6
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	10
	611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
	611-07.64	36IN ENDWALL (CROSS DRAIN) 4:1	EACH	4
	611-25.01	CATCH BASINS, TYPE 25, 0'-4' DEPTH	EACH	13
	611-25.02	CATCH BASINS, TYPE 25, >4'-8' DEPTH	EACH	6
	611-25.03	CATCH BASINS, TYPE 25, >8'-12' DEPTH	EACH	1
	611-26.02	CATCH BASINS, TYPE 26, >4'-8' DEPTH	EACH	2
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	400
	702-01	CONCRETE CURB	C.Y.	895
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	5287
	705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	7
	705-04.05	GUARDRAIL TERMINAL (TYPE IN-LINE)	EACH	2
	705-04.07	TAN ENERGY ABSORBING TERMINAL (NCHRP 350, TL 3)	EACH	16
12	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	2
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	2000
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	83
3, 4, 13	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	1100
3, 4, 6, 17	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	7415
3, 4	709-05.07	MACHINED RIP-RAP (CLASS A-2)	TON	40
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	719
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	435
	710-02	AGGREGATE UNDERDRAINS (WITH PIPES)	L.F.	36500
	710-05	LATERAL UNDERDRAIN	L.F.	2000
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	25
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	48
	710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	1700
	712-01	TRAFFIC CONTROL	L.S.	1
4	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	420
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	178
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	21
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	20

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	20
	712-06	SIGNS (CONSTRUCTION)	S.F.	306
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	70
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	1800
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	0.36
	713-01.02	STEEL BAR REINFORCEMENT (FOUNDATION FOR SIGN SUPPORTS)	LB.	100
1	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	16
	713-06	STEEL I-BEAMS & WF-BEAMS (BREAKAWAY) SIGN SUPPORT	LB.	231
	713-11.01	"U" SECTION STEEL POST	LB.	982
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBEE POST	LB.	3543
	713-11.21	P POST SLIP BASE	EACH	3
	713-13.02	FLAT SHEET ALUMINIUM SIGNS (0.080" THICK)	S.F.	610
	713-13.03	FLAT SHEET ALUMINIUM SIGNS (0.100" THICK)	S.F.	542
2	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	L.S.	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-01.07	TEMPORARY RAISED PAVEMENT MARKER,YELLOW	EACH	111
	716-01.21	SNWPLWBLE PVMT MRKRS (BI-DIR) (1 COLOR)	EACH	560
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING) YELLOW	S.Y.	128
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	187
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	5
	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	2
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	6
	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	420
	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	17
	717-01	MOBILIZATION	LS	1
3, 4, 13, 18	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	12500
11	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	1200
	801-01	SEEDING (WITH MULCH)	UNIT	1010
3, 4	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1000
5	801-03	WATER (SEEDING AND SODDING)	M.G.	1000
	801-07	SEEDING (SUPPLEMENTAL APPLICATION)	LB.	230
	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TON	2
	803-01	SODDING (NEW SOD)	S.Y.	102000
	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	800
3, 4	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	2500
	806-02.03	PROJECT MOWING	CYCL.	2
		PAVEMENT QUANTITIES - ALTERNATE "A"		
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	184324
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4473
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	20971
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	579
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	17228
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	10670
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	202
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	800
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	93
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	2548
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	6245
		PAVEMENT QUANTITIES - ALTERNATE "B"		
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	65230
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4473
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	20971
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	579
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	17228
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	10670
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	29585
	309-01.02	PORTLAND CEMENT (A-CBC)	TON	1142
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	79
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	202
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	800
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	93
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	2548
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	6245

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	1842
604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	362676

FOOTNOTES:

1. TO BE LOCATED AT ALL MEDIAN OPENINGS.
2. REMOVE TWENTY (20) +- EXISTING SIGNS WITHIN THE GRADING LIMITS OF THE PROJECT OR AS DIRECTED BY THE ENGINEER.
3. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
4. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
5. INCLUDES 50 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
6. INCLUDES 500 TONS FOR ROADWAY EMBANKMENTS WITH SLOPES STEEPER THAN 3:1. AND 6380 TONS FOR EROSION CONTROL.
7. FOR TYPE "B" ENDWALL.
8. QUANTITY IS CALCULATED FOR ALTERNATE "A" PAVEMENT SCHEDULE. SUBTRACT 659 M.G. IF ALTERNATE "B" PAVEMENT IS USED.
9. INCLUDES 19200 C.Y. FOR EROSION CONTROL.
10. BID PRICE INCLUDES ALL SALVAGE VALUE OF MATERIAL. SEE TABULATED QUANTITIES SHEET NO. 2L FOR REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK.
    ALL BUILDINGS SHALL BE APPROVED BY TDEC AS "CLEAN AND READY FOR DEMOLITION" PRIOR TO DEMOLITION.
11. TO BE USED AS FILTER FABRIC WITH CL- A-1 RIP-RAP ON SLOPES STEEPER THAN 3:1
12. THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
13. TO BE USED IN THE CONSTRUCTION OF TEMPORARY CONSTRUCTION EXITS.
14. INCLUDES 5600 L.F. FOR CULVERT PROTECTION (TYPE2).
15. INCLUDING QUANTITIES FOR USE AT CULVERT PROTECTION (TYPE 2), WHERE APPLICABLE.
16. INCLUDES 175 TONS FOR CULVERT PROTECTION (TYPE 1).
17. INCLUDESS 630 TONS FOR CULVERT PROTECTION (TYPE 1).
18. INCLUDES 1595 S.Y. FOR CULVERT PROTECTION (TYPE 1).

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ESTIMATED ROADWAY QUANTITIES

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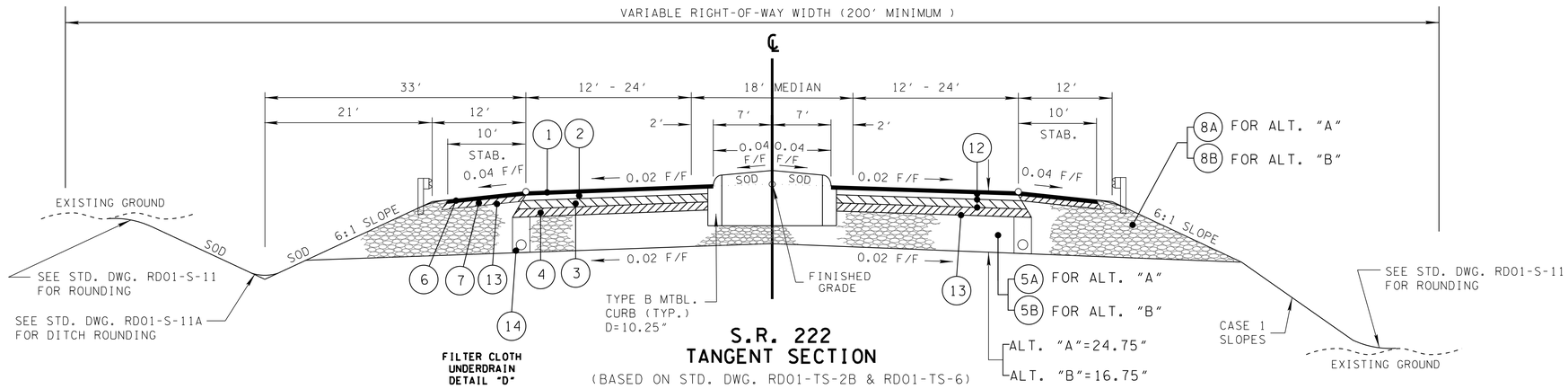
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	2
CONST.	2014	38016-3206-04	2B

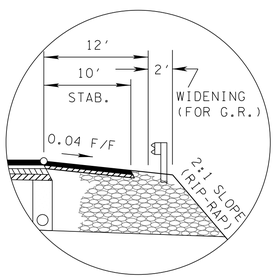


S.R. 222
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-2B & RD01-TS-6)

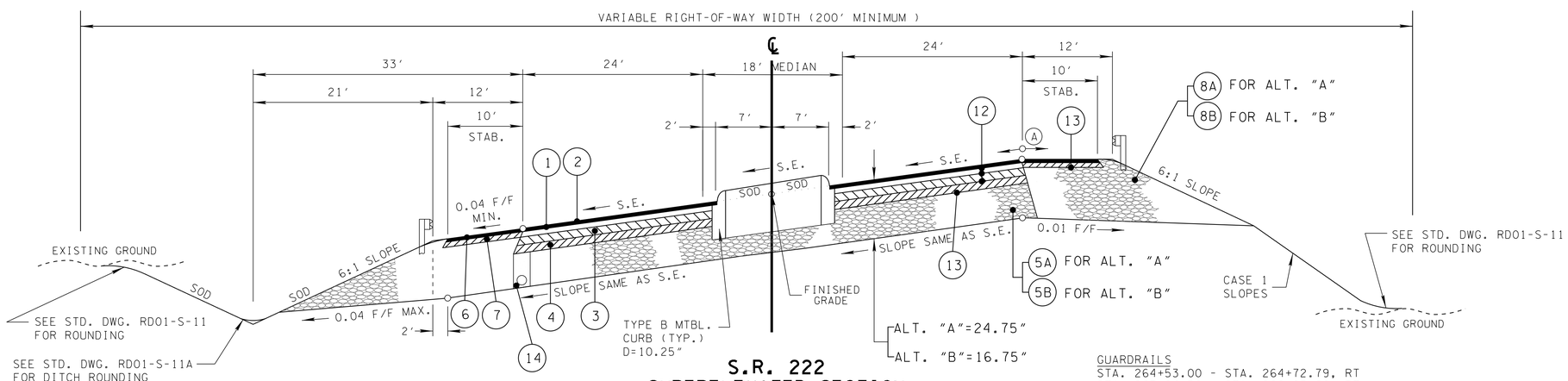
STA. 264+72.79 - STA. 267+04.56
STA. 282+37.94 - STA. 294+84.08
STA. 310+86.90 - STA. 324+27.63
STA. 343+12.28 - STA. 364+70.00

GUARDRAILS
STA. 266+97.00 - STA. 267+04.56, LT
STA. 292+00.00 - STA. 294+84.08, LT
STA. 291+34.00 - STA. 294+84.08, RT
STA. 311+47.00 - STA. 315+23.00, RT
STA. 311+79.00 - STA. 316+55.00, LT



TYPICAL SLOPE EXCEPTION
STA. 312+50.00 - STA. 314+00, LT
STA. 314+00.00 - STA. 315+50, RT

NOTE:
CL. A-1 RIP-RAP (1.5' THICK)ON FILTER FABRIC (PAY ITEM #740-10.04) SHALL BE PLACED ON ALL SLOPES STEEPER THAN 3:1.



S.R. 222
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-2B & RD01-TS-6)

STA. 260+80.00 - STA. 264+72.79
STA. 267+04.56 - STA. 282+37.94
STA. 294+84.08 - STA. 310+86.90
STA. 324+27.63 - STA. 343+12.28

GUARDRAILS
STA. 264+53.00 - STA. 264+72.79, RT
STA. 267+04.56 - STA. 268+03.00, RT
STA. 267+04.56 - STA. 270+34.00, LT
STA. 294+84.08 - STA. 294+97.00, RT
STA. 294+84.08 - STA. 295+50.00, LT
STA. 332+65.00 - STA. 336+02.00, LT

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.070 FT/FT

SEE SHEET 2G FOR PROP. PAVEMENT SCHEDULE

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TYPICAL SECTIONS

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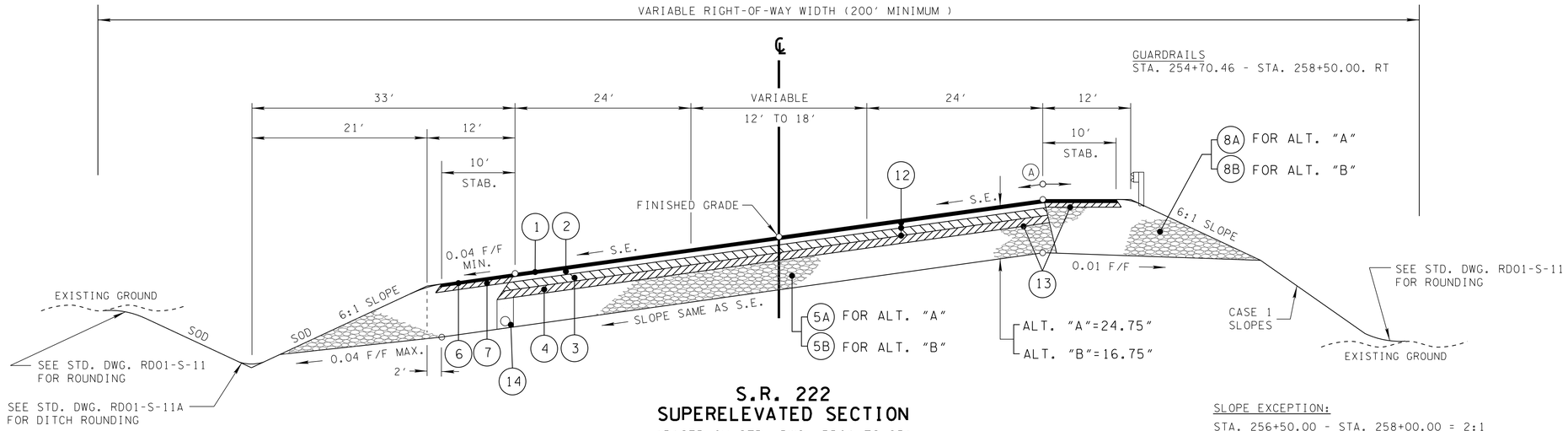
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	2A
CONST.	2014	38016-3206-04	2C



S.R. 222
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-2B)

STA. 254+70.46 - STA. 260+80.00

GENERAL SLOPE TABLE			
CASE I		CASE II	
FILL SLOPES	HEIGHT OF FILL	FILL SLOPES	HEIGHT OF FILL
6:1	0'-7'	4:1	0'-6'
4:1	7'-15'	3:1	6'-8'
3:1	15'-28'	2:1	8'-12'
2:1	OVER 28'	1.5:1	OVER 12'
CUT SLOPES	DEPTH OF CUT	CUT SLOPES	DEPTH OF CUT
4:1	0'-15'	4:1	0'-6'
3:1	15'-20'	3:1	6'-8'
2:1	OVER 20'	2:1	8'-12'
		1.5:1	OVER 12'

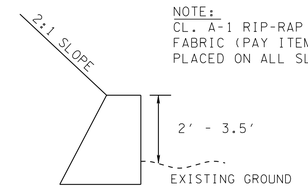
(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.070 FT/FT

SLOPE EXCEPTION:

STA. 256+50.00 - STA. 258+00.00 = 2:1

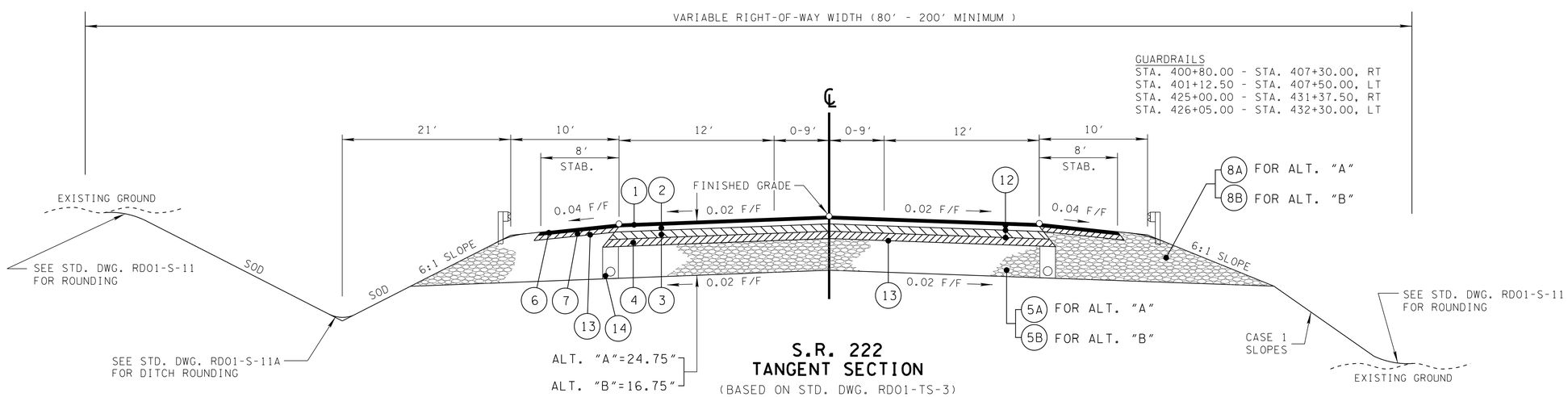
NOTE:

CL. A-1 RIP-RAP (1.5' THICK)ON FILTER FABRIC (PAY ITEM #740-10.04) SHALL BE PLACED ON ALL SLOPES STEEPER THAN 3:1.



RETAINING WALL:

STA. 257+45.00 - STA. 258+03.00 RT.



S.R. 222
TANGENT SECTION

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

STA. 364+70.00 - STA. 434+50.00

SEE SHEET 2G FOR
PROP. PAVEMENT SCHEDULE

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TYPICAL SECTIONS

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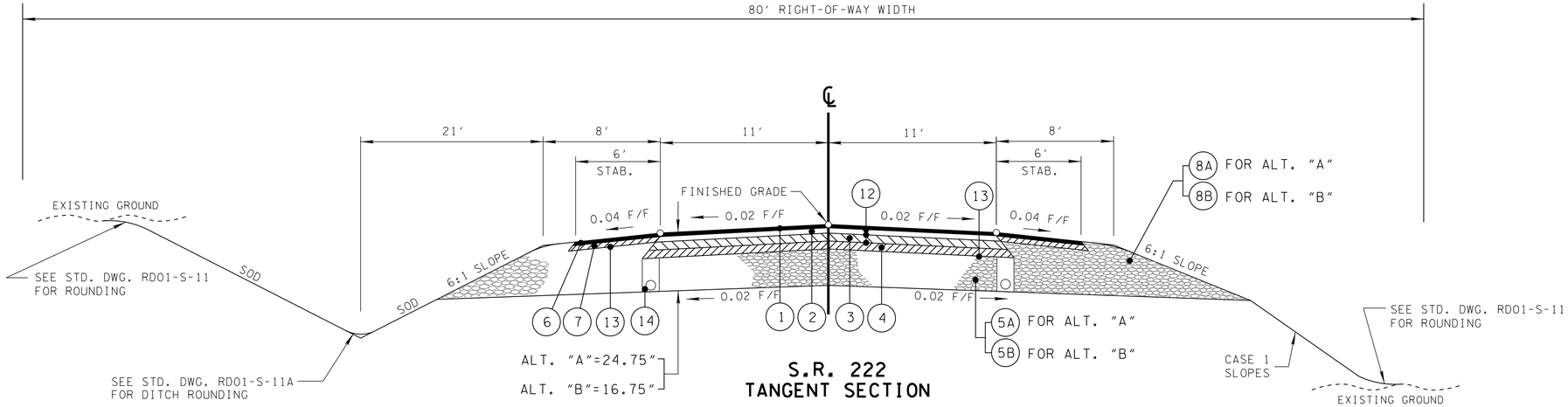
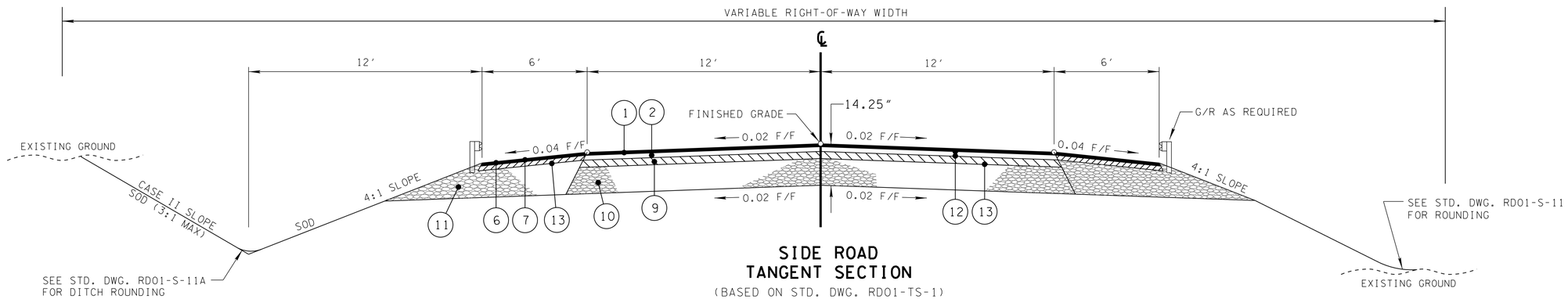
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	2B
CONST.	2014	38016-3206-04	2D



S.R. 222
TANGENT SECTION

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

STA. 435+10 - STA. 439+90.00



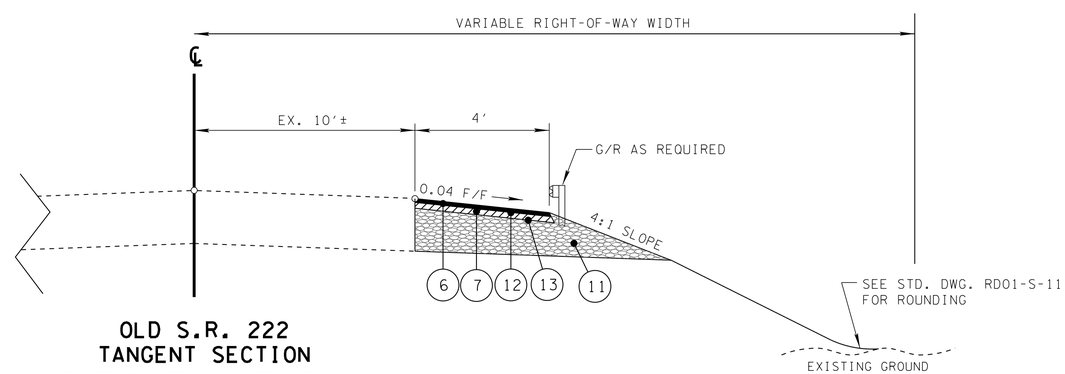
GUARDRAILS FOR OLD SR-222
STA. 25+00.00 - STA. 27+20.00 LT
STA. 28+73.00 - STA. 29+70.00 LT
STA. 28+73.00 - STA. 29+70.00 RT

SIDE ROAD
TANGENT SECTION

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

THORPE DR., STA. 6+70.00 TO STA. 7+32.26
CONNECTOR 1, STA. 10+72.02 TO STA. 11+58.26
OLD SR-222, STA. 26+30.00 TO STA. 29+70.00
CONNECTOR 2, STA. 40+40.00 TO STA. 45+98.00

GENERAL SLOPE TABLE			
CASE I		CASE II	
FILL SLOPES	HEIGHT OF FILL	FILL SLOPES	HEIGHT OF FILL
6:1	0'-7'	4:1	0'-6'
4:1	7'-15'	3:1	6'-8'
3:1	15'-28'	2:1	8'-12'
2:1	OVER 28'	1.5:1	OVER 12'
CUT SLOPES	DEPTH OF CUT	CUT SLOPES	DEPTH OF CUT
4:1	0'-15'	4:1	0'-6'
3:1	15'-20'	3:1	6'-8'
2:1	OVER 20'	2:1	8'-12'
		1.5:1	OVER 12'



OLD S.R. 222
TANGENT SECTION

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

STA. 29+70.00 TO STA. 32+00.00

GUARDRAILS
STA. 29+70.00 - STA. 30+50.00 RT

SEE SHEET 2G FOR PROP. PAVEMENT SCHEDULE

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TYPICAL SECTIONS

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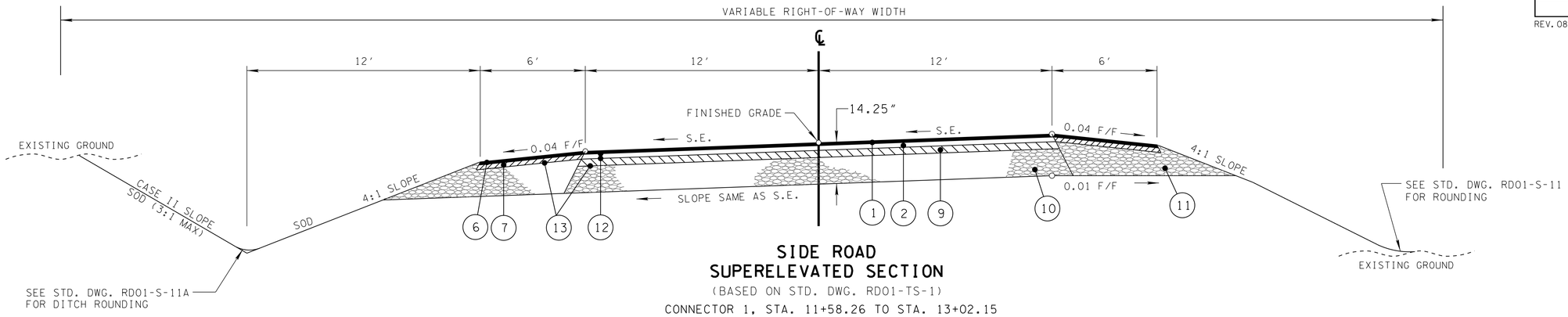
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	2C
CONST.	2014	38016-3206-04	2E

REV. 08-12-14: DELETED TRUSS RD. TYP. SECTION.

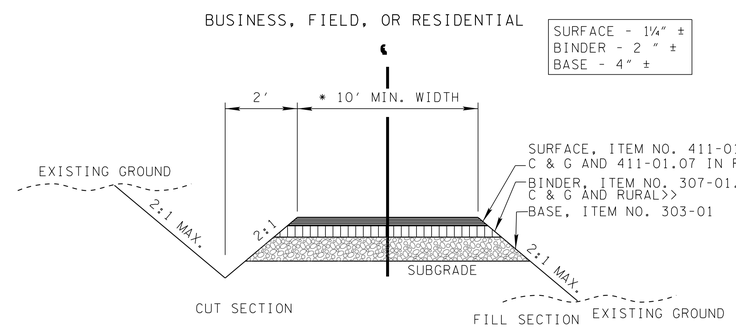


SIDE ROAD SUPERELEVATED SECTION

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

CONNECTOR 1, STA. 11+58.26 TO STA. 13+02.15

SEE SHEET 2G FOR
PROP. PAVEMENT SCHEDULE

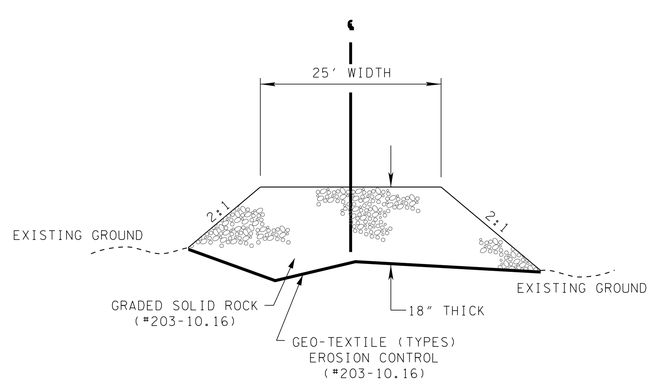


TYPICAL SECTION

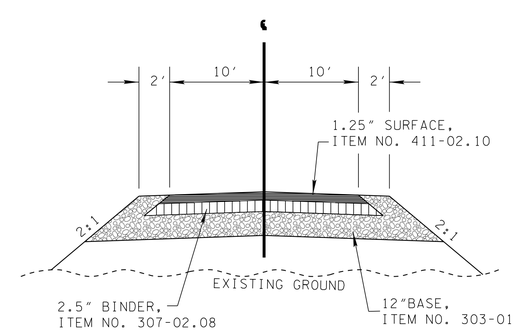
PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

* 16' MIN FOR FIELD ENTRANCES

GENERAL SLOPE TABLE			
CASE I		CASE II	
FILL SLOPES	HEIGHT OF FILL	FILL SLOPES	HEIGHT OF FILL
6:1	0'-7'	4:1	0'-6'
4:1	7'-15'	3:1	6'-8'
3:1	15'-28'	2:1	8'-12'
2:1	OVER 28'	1.5:1	OVER 12'
CUT SLOPES	DEPTH OF CUT	CUT SLOPES	DEPTH OF CUT
4:1	0'-15'	4:1	0'-6'
3:1	15'-20'	3:1	6'-8'
2:1	OVER 20'	2:1	8'-12'
		1.5:1	OVER 12'



HAUL RD.



TYPICAL SECTION

TEMPORARY RUN-AROUND RD.

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TYPICAL SECTIONS

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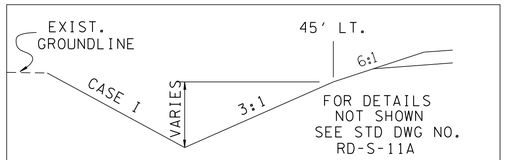
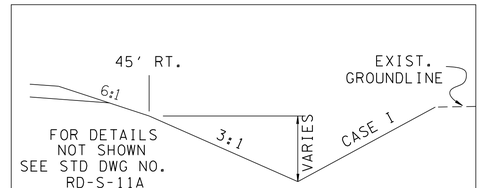
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	2D
CONST.	2014	38016-3206-04	2F

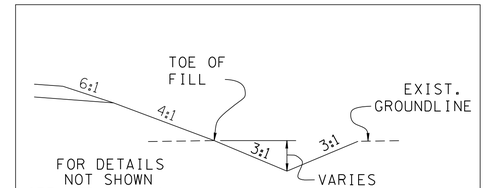


PROP. "V" BOTTOM DITCH

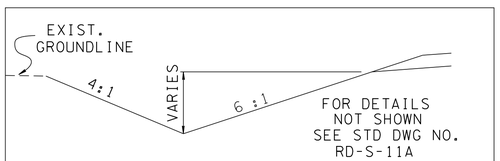
STATION		STATION	TYPE OF LINING
LEFT STA. 373+00.00	TO STA.	402+00.00	SOD
LEFT STA. 403+93.00	TO STA.	408+00.00	SOD
LEFT STA. 402+00.00	TO STA.	403+80.00	TRM
LEFT STA. 408+00.00	TO STA.	411+50.00	TRM



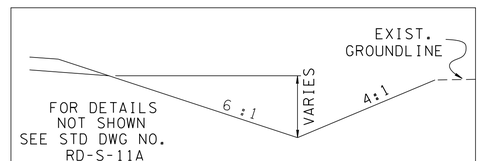
PROP. "V" BOTTOM SODDED DITCH
RIGHT STA. 373+00.00 TO STA. 404+60.00



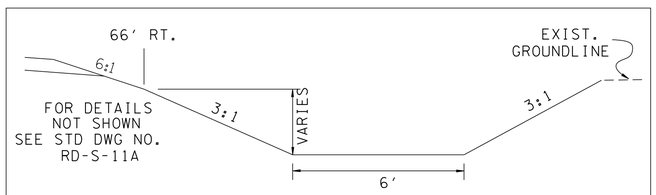
PROP. "V" BOTTOM SODDED DITCH
RIGHT STA. 424+64.00 TO STA. 428+23.00



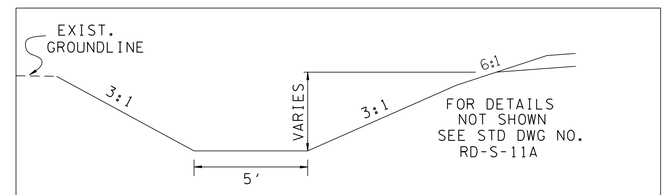
PROP. "V" BOTTOM SODDED DITCH
LEFT STA. 261+50.00 TO STA. 265+00.00



PROP. "V" BOTTOM SODDED DITCH
RIGHT STA. 273+50.00 TO STA. 276+00.00
RIGHT STA. 280+28.00 TO STA. 281+89.00



PROP. "V" BOTTOM TRM DITCH
RIGHT STA. 304+00.00 TO STA. 310+60.00



PROP. "V" BOTTOM SODDED DITCH
LEFT STA. 332+80.00 TO STA. 339+50.00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	2E
CONST.	2014	38016-3206-04	2G

PROPOSED PAVEMENT SCHEDULE

(1) ASPHALTIC CONCRETE SURFACE - 1.25" THICK (132.5 LB/SY) 411-02.10 ACS MIX (PG70-22) GR "D"	(8A) MINERAL AGGREGATE BASE - 21.5" THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GR "D"
(2) BITUMINOUS PLANT MIX BASE - 2" THICK (226 LB/SY) 307-02.08 AC MIX (PG70-22) (BPMB-HM) GR "B-M2"	(8B) MINERAL AGGREGATE BASE - 13.5" THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GR "D"
(3) BITUMINOUS PLANT MIX BASE - 4" THICK (460 LB/SY) 307-02.01 AC MIX (PG70-22) (BPMB-HM) GR "A"	(9) BITUMINOUS PLANT MIX BASE - 3" THICK (345 LB/SY) 307-02.01 AC MIX (PG70-22) GR "A"
(4) BITUMINOUS PLANT MIX BASE - 3.5" THICK (315 LB/SY) 307-02.02 AC (PG70-22) (BPMB-HM) GR "A-S" 307-02.03 AGGREGATE (BPMB-HM) GR "A-S"	(10) MINERAL AGGREGATE BASE - 10" THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GR "D"
(5A) MINERAL AGGREGATE BASE - 14" THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GR "D"	(11) MINERAL AGGREGATE BASE - 13" THICK 303-01 *MINERAL AGGREGATE, TYPE A BASE, GR "D"
(5B) AGGREGATE CEMENT BASE COURSE - 6" THICK 309-01.01 MINERAL AGGREGATE (A-CBC) 309-01.02 PORTLAND CEMENT (A-CBC) 309-02 BITUMINOUS MATERIAL (A-CBC)	(12) TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACT COAT (TC) (0.02 GAL/SY)
(6) ASPHALTIC CONCRETE SURFACE - 1.25" THICK (128.75 LB/SY) 411-01.07 ACS MIX (PG64-22) GR "E" SHOULDER	(13) PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30 - 0.35 GAL/SY) 402-02 AGGREGATE FOR COVER MATERIAL (PC) (8 - 12 LB/SY)
(7) BITUMINOUS PLANT MIX BASE - 2" THICK (226 LB/SY) 307-01.08 AC MIX (PG64-22) GR "B-M2	(14) UNDERDRAINS 710-02 AGGREGATE UNDERDRAINS (WITH PIPE)

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PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	2H

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) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

(2) 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.

(3) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

(4) 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.

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) 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.

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

(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) 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 IT'S 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 FOR 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.

FENCING

(1) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

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) 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 THERE FROM 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 AND THE CIVIL ENGINEERING MANAGER 1, REGIONAL ROADWAY DESIGN OFFICE, ARE 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 EXCEEDS 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 OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(9) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

PAVEMENT MARKINGS

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

(2) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" ENHANCED FLATLINE THERMOPLASTIC 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. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (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

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GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	21

GENERAL NOTES CONT'D.

AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

(2) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (40 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. 716-13.06, SPRAY THERMO PVMT MRKNG (40 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 THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(1) THE PAVEMENT MARKING ON THE DETOUR AND LANE SHIFT FOR CENTERLINE AND EDGELINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4IN LINE), LIN. MI.

(2) BEFORE OPENING THE DETOUR AND LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM 712-09.01 REMOVABLE PAVEMENT MARKING LINE, LIN. FT. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

(1) 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.

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 LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(4) 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.

TRAFFIC CONTROL DIRECTIONAL SIGNING

(1) WHEN EXISTING "TOURIST ORIENTED DIRECTIONAL SIGNS" (TODS) ARE ON NON-ACCESS CONTROLLED CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING THESE "TODS" AND TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-01 TRAFFIC CONTROL (L.S.), AS DIRECTED BY THE ENGINEER. NEW SUPPORTS AND SIGN FACE FOR FINAL LOCATION WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

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 OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE.. 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.

(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

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

(2) 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.

(3) 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.

(4) 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.

(5) 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 ROOADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(6) 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.

(7) 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.

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

STREAM/WETLAND

(1) 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.

(2) 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.

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	2J

GENERAL NOTES CONT'D.

(3) 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.

(4) 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.

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

(6) 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.

(7) 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.

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

SPECIES

(9) 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

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

(2) 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.

(3) 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.

(4) 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.

(5) 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.

(6) 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.

(7) 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.

(8) 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.

MATERIALS

(1) 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

(1) 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.

(2) 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, ROOADWAY 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.

(3) 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.

(4) 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.

(5) 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 ROOADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(6) 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.

(7) 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.

(8) 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.

(9) 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

(1) 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.

(2) 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

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GENERAL NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	2K

REV. 09-16-14: ADDED HAZARDOUS MATERIALS NOTE TO EROSION PREVENTION AND SEDIMENT CONTROL SECTION.

SPECIAL NOTES CONT'D.

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 41 FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

HAZARDOUS MATERIALS

(2) THE CONRACTOR WILL BE RESPONSIBLE FOR ASBESTOS ABATEMENT AS PART OF THE REMOVAL OF BUILDINGS (ITEM 202-06.01). AN ABESTOS SURVEY HAS BEEN COMPLETED AND THE RESULTS ARE INCLUDED AS AN ATTACHMENT TO THE BID PACKAGE. IT IS THE RESPONSIBILITY FOR THE CONTRACTOR DURING ASBESTOS ABATEMENT AND DEMOLITION TO COMPLY WITH AIR POLLUTION CONTROL REGULATIONS, INCLUDING CHAPTER 1200-3. ABATEMENT WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE UNIT PRICE OF OTHER ITEMS.

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.

STREAM RELOCATION

(4) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL THE ECOLOGY SECTION MUST BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE STREAM / CHANNEL IS TO BE SUPPLIED WITH THE NOTIFICATION.

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GENERAL NOTES AND SPECIAL NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	2L

REV. 08-12-14: REVISED SIDEROADS PAVEMENT QTYS. DELETED TRUSS ROAD FROM ESTIMATED GRADING QTYS.
REV. 09-16-14: REVISED REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK.

PAVEMENT QUANTITIES

ITEM NO.	DESCRIPTION	MAINLINE ALT. "A"	MAINLINE ALT. "B"	SIDEROADS	RUNAROUND	TOTAL W/ ALT. "A"	TOTAL W/ ALT. "B"
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	177130	58036	4876	2318	184324	65230
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	4288	4288	185	0	4473	4473
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	20259	20259	712		20971	20971
307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	579	579	0	0	579	579
307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	17228	17228	0	0	17228	17228
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	9836	9836	466	368	10670	10670
309-01.01	MINERAL AGGREGATE (A-CBC)	0	29585	0	0	0	29585
309-01.02	PORTLAND CEMENT (A-CBC)	0	1142	0	0	0	1142
309-02	BITUMINOUS MATERIAL (A-CBC)	0	79	0	0	0	79
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	193	193	9	0	202	202
402-02	AGGREGATE FOR COVER MATERIAL (PC)	765	765	35	0	800	800
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	90	90	3	0	93	93
411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	2442	2442	106	0	2548	2548
411-02.10	ACS MIX(PG70-22) GRADING D	5800	5800	273	172	6245	6245
710-02	AGGREGATE UNDERDRAINS (WITH PIPES)	36500	36500	0	0	36500	36500

ESTIMATED GRADING QUANTITIES (30% SHRINKAGE)

STATION TO STATION	ROAD AND DRAINAGE EXC. (UNCL.) COMMON - C.Y.	ROAD AND DRAINAGE EXC. (UNCL.) S. ROCK - C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMBANKMENT (COMP.-IN-PLACE) C.Y.
MAINLINE	283900		141434				317314
THORPE ROAD	221		91				21
CONNECTOR 1	1192		-499				122
OLD SR-222 LEFT	160		231				260
OLD SR-222 RIGHT	334		881				914
CONNECTOR 2	2176		276				1325
TOTALS	**287984**	**0**	**142414**	**0**	**0**	**0**	**319956**

SPECIAL DITCHES

ROAD	STATION FROM	STATION TO	STATION SIDE	SLOPE FORE (H/V)	SLOPE BOTTOM WIDTH (FT.)	SLOPE BACK (H/V)	DETAIL NO.	TYPE
S.R. 222	261+50	265+00	LT.	6:1	V	4:1	SHT 2F	SOD
	273+50	276+00	RT.	6:1	V	4:1	SHT 2F	SOD
	280+28	281+89	RT.	6:1	V	4:1	SHT 2F	SOD
	304+00	310+60	RT.	3:1	6	3:1	SHT 2F	TRM
	332+80	339+50	LT.	3:1	5	3:1	SHT 2F	SOD
	373+00	402+00	LT.	3:1	V	VARIES	SHT 2F	SOD
	373+00	404+60	RT.	3:1	V	VARIES	SHT 2F	SOD
	402+00	403+80	LT.	3:1	V	VARIES	SHT 2F	TRM
	403+93	408+00	LT.	3:1	V	VARIES	SHT 2F	SOD
	408+00	411+50	LT.	3:1	V	VARIES	SHT 2F	TRM
	424+64	428+23	RT.	3:1	V	3:1	SHT 2F	SOD

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	GUARDRAIL BRIDGE ENDS 705-01.01 (L.F.)	GUARDRAIL BRIDGE PIERS 705-01.02 (L.F.)	GUARDRAIL SINGLE TYPE 2 705-02.02 (L.F.)	GUARDRAIL MEDIAN TYPE 2 705-03.03 (L.F.)	TERMINAL ANCHORS TYPE 12 705-04.02 (EACH)	TERMINAL ANCHORS TYPE 13 705-04.03 (EACH)	TERMINAL ANCHORS TYPE 21 705-04.04 (EACH)	TERMINAL ANCHORS TYPE IN-LINE 705-04.05 (EACH)	TERMINAL ANCHORS TYPE 38 705-04.07 (EACH)	REMARKS
4A	S.R. 222		X	254+24	256+18			194					1		TIE TO EXIST. GR.
			X	256+67	258+50			183			1		1		
5A	S.R. 222		X	264+53	268+03			300			1			1	
		X		266+97	270+34			287			1			1	
7A	S.R. 222		X	291+34	294+97			313			1			1	
		X		292+00	295+50			300			1			1	
8A	S.R. 222		X	311+47	315+23			423			1				INCL. 40'R
		X		311+47	316+55			505						1	INCL. 40'R
	OLD S.R. 222	X		26+05	27+25			120							TIE TO EXIST. GR.
		X		28+75	29+95			120							TIE TO EXIST. GR.
			X	28+75	30+80			105						2	
10A	S.R. 222	X		332+65	336+02			287			1			1	
15A	S.R. 222		X	400+80	407+30			550						2	
		X		401+12.5	407+50			537.5						2	
17A	S.R. 222		X	425+00	431+37.5			537.5						2	
		X		426+05	432+30			525						2	
TOTALS						**0**	**0**	**5287**	**0**	**0**	**7**	**0**	**2**	**16**	

R.O.W. MARKERS

SHEET NO.	QUANTITIES "A"	"B"	"C"	TOTALS
4	3	1	3	**7**
5	10	1	2	**13**
6	2	0	0	**2**
7	5	0	0	**5**
8	2	3	6	**11**
9	3	0	0	**3**
10	7	0	0	**7**
11	2	0	0	**2**
12	0	2	2	**4**
13	3	0	0	**3**
14	0	0	0	**0**
15	1	2	2	**5**
16	2	2	2	**6**
17	0	3	4	**7**
18	1	3	4	**8**
TOTALS	**41**	**17**	**25**	**83**

REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK

PAY ITEM	TRACT NO.	DESCRIPTION
202-06.01	9	FRAME GARAGE
		STORAGE SHED AND TRAILER
		SINGLE STORY FRAME RESIDENCE

NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE REMOVALS.

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TABULATED QUANTITIES

SHEET 1 OF 2

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	2M

CATCH BASINS AND MANHOLES

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS (INCHES)	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 1 611-02.01	TYPE 25 611-25.01 0' - 4'	TYPE25 611-25.02 4' - 8'	TYPE 25 611-25.03 8' - 12'	TYPE 26 611-26.04 0' - 4'	TYPE 26 611-26.02 4' - 8'	TYPE 26 611-26.03 8'-12'
4A	S.R. 222	262+46.00	7.0	CB1	352.33	25LP	32"X32"	4.74	D-CB-25LP			1				
4A	S.R. 222	256+99.26	-61.75	SD1	346.50	SD	32"X32"	3.00	D-SDS-1	1						
5A	S.R. 222	268+94.00	-7.0	CB2	344.33	25LP	32"X32"	3.74	D-CB-25LP		1					
5A	S.R. 222	269+50.00	-7.0	CB3	339.97	26P	8'X3'	0.00	D-CB-26P						1	
5A	S.R. 222	270+06.00	-7.0	CB4	344.33	25LP	32"X32"	3.74	D-CB-25LP		1					
5A	S.R. 222	271+00.00	-7.0	CB5	345.03	25LP	32"X32"	3.74	D-CB-25LP		1					
5A	S.R. 222	275+33.00	-7.0	CB6	349.30	25LP	32"X32"	5.75	D-CB-25LP			1				
6A	S.R. 222	280+00.00	-7.0	CB7	347.31	25LP	32"X32"	3.74	D-CB-25LP		1					
6A	S.R. 222	280+50.00	-7.0	CB8	346.39	25LP	32"X32"	3.74	D-CB-25LP		1					
6A	S.R. 222	281+00.00	-7.0	CB9	345.48	25LP	32"X32"	3.74	D-CB-25LP		1					
6A	S.R. 222	281+25.00	-7.0	CB10	345.03	25LP	32"X32"	4.25	D-CB-25LP		1					
7A	S.R. 222	298+00.00	-7.0	CB11	336.59	25LP	32"X32"	4.98	D-CB-25LP			1				
8A	S.R. 222	304+00.00	-7.00	CB12	332.83	25LP	32"X32"	3.74	D-CB-25LP		1					
8A	S.R. 222	305+50.00	-7.00	CB13	331.86	25LP	32"X32"	3.74	D-CB-25LP		1					
8A	S.R. 222	306+75.0	-7.00	CB14	331.05	25LP	32"X32"	4.25	D-CB-25LP			1				
9A	S.R. 222	325+30.00	7.00	CB15	324.87	25LP	32"X32"	3.73	D-CB-25LP		1					
9A	S.R. 222	325+80.00	7.00	CB16	325.24	25LP	32"X32"	6.24	D-CB-25LP			1				
9A	S.R. 222	326+50.00	7.00	CB17	325.75	25LP	32"X32"	7.87	D-CB-25LP			1				
9A	S.R. 222	327+40.00	7.00	CB18	326.40	25SB	4'X4'	11.46	D-CB-25SB				1			
10A	S.R. 222	337+50.00	7.00	CB19	326.54	25LP	32"X32"	3.74	D-CB-25LP		1					
10A	S.R. 222	339+14.00	7.00	CB20	325.53	25LP	32"X32"	3.74	D-CB-25LP		1					
10A	S.R. 222	340+00.00	7.00	CB21	325.33	26P	8'X3'	4.10	D-CB-26P						1	
10A	S.R. 222	340+75.00	7.00	CB22	325.53	25LP	32"X32"	3.74	D-CB-25LP		1					
TOTALS										1	13	6	1	0	2	0

STORM DRAINAGE PIPES

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.) 18"	24"	30"	36"	42"	BEDDING MATERIAL (C.Y.)	RIP-RAP 709-05.06 (TON)
4A	CB1	347.59	EW1	344.16	4.76	72					15.3	
	SD1	343.50	EX1	343.40	1.67	6					0.0	
5A	CB2	340.59	CB3	340.14	0.87	52					11.0	
	CB3	339.97	EW2	337.21	4.06	68					14.4	
	CB4	340.59	CB3	340.14	0.87	52					11.0	
	CB5	341.29	CB4	340.79	0.54	92					19.5	
	CB6	343.55	EW3	340.89	4.09	65					13.8	
6A	CB7	343.57	CB8	342.82	1.56	48					10.2	
	CB8	342.65	CB9	341.91	1.54	48					10.2	
	CB9	341.74	CB10	341.28	1.92	24					5.1	
	CB10	340.78	EW4	339.59	1.86	64					13.6	
7A	CB11	331.61	EW5	328.06	4.93	72					15.3	
8A	CB12	329.09	CB13	328.29	0.53	150					31.8	
	CB13	328.12	CB14	326.97	0.93	124					26.3	
	CB14	326.80	EW6	315.64	12.26	91					19.3	
9A	CB15	321.14	CB16	319.17	4.10417	48					10.2	
	CB16	319	CB17	318.05	1.39706	68					14.4	
	CB17	317.88	CB18	316.49	1.57955	88					18.7	
10A	CB19	322.8	CB20	321.96	0.51852	162					34.344	
	CB20	321.79	CB21	321.4	0.47561	82					17.384	
	CB21	321.23	EW7	320.71	0.89655	58					12.296	
	CB22	321.79	CB21	321.4	0.55714	70					14.84	
TOTALS						1604	0	0	0	0	339	0

STORM DRAINAGE ENDWALLS

SHEET	LOCATION	STATION	OFFSET	DRAINAGE	STRUCTURE	PIPE (IN.)	STANDARD	18 IN. ENDWALL 611-07.54 (EA.)	18 IN. ENDWALL 611-07.56 (EA.)	MACHINED RIP-RAP CL"A-1" (TONS)
4A	S.R. 222	262+46.00	64.6 LT.	EW1	"U"	18	D-PE-18A		1	10
5A	S.R. 222	269+50.00	60.9 RT.	EW2	"U"	18	D-PE-18A		1	10
	S.R. 222	275+33.00	57.8 RT.	EW3	"U"	18	D-PE-18A		1	10
6A	S.R. 222	281+25.00	57.1 RT.	EW4	"U"	18	D-PE-18A		1	10
7A	S.R. 222	298+00.00	64.7 RT.	EW5	"U"	18	D-PE-18A		1	10
8A	S.R. 222	306+75.00	83.6 RT.	EW6	"U"	18	D-PE-18A	1		10
10A	S.R. 222	340+00.00	67.5 RT.	EW7	"U"	18	D-PE-18A		1	10
TOTALS										70

BOX BRIDGE TABULATION

STATION	LOCATION	SPAN FT.	HEIGHT FT.	LENGTH FT.	SKEW	DRAINAGE AREA ACRES	BOX BRIDGES BOX CLASS "A" CONC. CU. YD.	BOX REINF. STEEL LBS.	APRON CLASS "A" CONC. CU. YD.	APRON WIRE FABRIC LBS.	APRON STEEL BAR REINF. LBS.	DRAWING NO.	BACKFILLING ITEM 303-01.02 TONS	FOUNDATION FILL MATERIAL ITEM 204-08 CU. YD.
293+48.00	SR-222	10	7	240	30° RT	178	330	66550				STD-17-54	2212	82
314+05.00	SR-222	3 @ 16	11	144	45° RT	1187	928	192498	0	0	0	STD-17-103	2985	172
404+20.00	SR-222	3 @ 14	10	94	60° LT	669	584	103628	0	0	0	STD-17-100	1669	100
TOTALS							1842	362676	0	0	0		6866	354

BOX CULVERT TABULATION

STATION	LOCATION	SPAN FT.	HEIGHT FT.	LENGTH FT.	SKEW	DRAINAGE AREA ACRES	BOX CULVERT BOX CLASS "A" CONC. CU. YD.	BOX REINF. STEEL LBS.	APRON CLASS "A" CONC. CU. YD.	APRON WIRE FABRIC LBS.	APRON STEEL BAR REINF. LBS.	DRAWING NO.	BACKFILLING ITEM 303-01.01 TONS	FOUNDATION FILL MATERIAL ITEM 204-08 CU. YD.
332+77.00	SR-222	12	7	149	86° 54' 53" LT	110	280.49	52008				STD-17-57	1773	58
428+65.00	SR-222	10	9	88	65° RT	192	151.18	30623				STD-17-55	1267	30
29+60.00	OLD S.R. 222	8	8	46	90°	231	80.06	13428				STD-17-53	537	16
TOTALS							511.73	96059	0	0	0		3577	104

CROSS DRAIN AND SIDE DRAIN TABULATION

LOCATION	STATION	RCP CLASS III (L.F.) FILL HEIGHT < OR = 16 FT. 18"	24"	30"	36"	48"	60"	SKEW	RIP-RAP 709-05.06 CL "A-1" (TON)	RIP-RAP 709-05.08 CL "B" (TON)	RIP-RAP 709-05.09 CL "C" (TON)	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	CLASS "A" CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	18 IN. ENDWALL 4:1 611-07.55 (EA.)	18 IN. ENDWALL 6:1 611-07.56 (EA.)	24 IN. ENDWALL 6:1 611-07.59 (EA.)	36 IN. ENDWALL 4:1 611-07.64 (EA.)	REMARKS
THORPE DR.	7+07.00	44						76° 10' 13" RT	10	-	-	"U"	D-PE-18A	"U"	D-PE-18A			2				
CONNECTOR 1	12+82.00	52						82° 22' 00" LT	10	-	-	"U"	D-PE-18A	"U"	D-PE-18A			2				
S.R. 222	267+50.00						140	60° 17' 50" RT	73	98	-	"B"	D-PE-9	"B"	D-PE-9	26.64	1996					4:1 SLOPE
S.R. 222	322+75.00		158					60° RT	22	-	-	"U"	D-PE-24A	"U"	D-PE-24A					2		
S.R. 222	327+40.00				149			90° RT	-	78	-	"U"	D-PE-36A	"U"	D-PE-36A						2	
S.R. 222	359+05.00	131						90° RT	10	-	-	"U"	D-PE-18A	"U"	D-PE-18A				2			
S.R. 222	364+30.00				128			79° RT	-	-	68	"U"	D-PE-36A	"U"	D-PE-36A						2	
S.R. 222	432+50.00	20						86° RT	-	-	-	"U"	D-PE-18A	"U"	D-PE-18A				2			DRIVEWAY SIDE DRAIN
CONNECTOR 2	45+25.00	69						90° RT	10	-	-	"U"	D-PE-18A	"U"	D-PE-18A			2				
TOTALS		316	158	0	277	0	140		135	176	68					26.64	1996	6	4	2	4	

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TABULATED QUANTITIES

SHEET 2 OF 2

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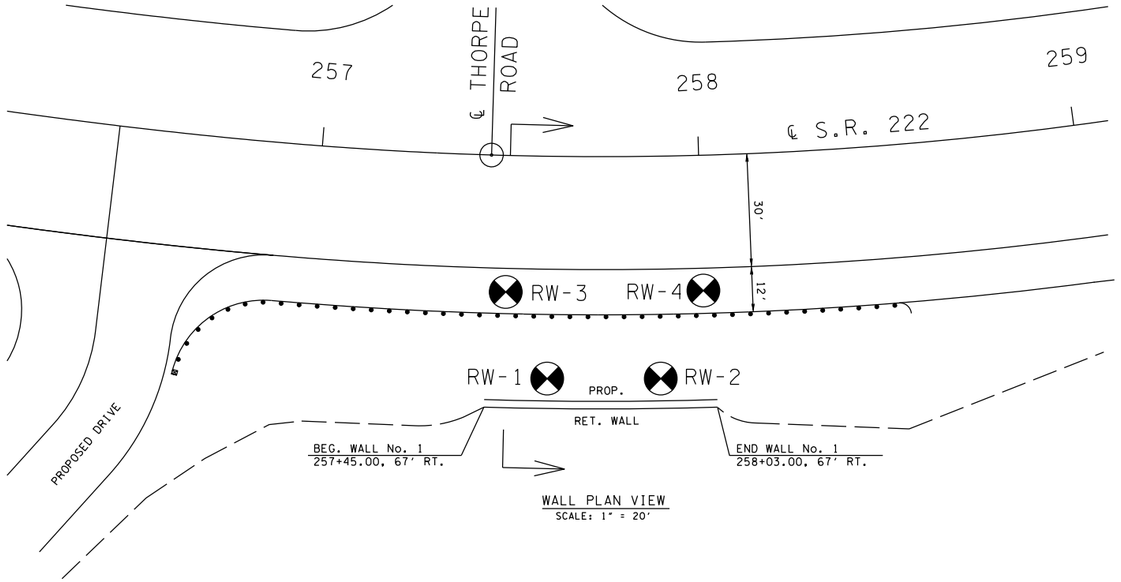
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

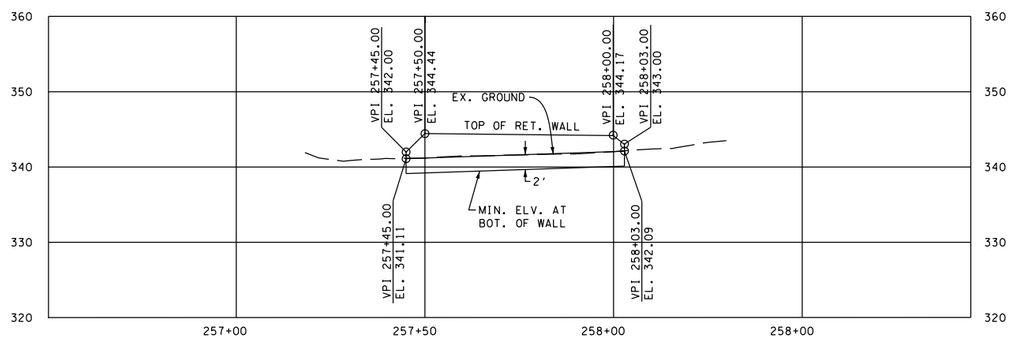
PROJECT NO.	YEAR	SHEET NO.
38016-3206-04	2014	2N

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

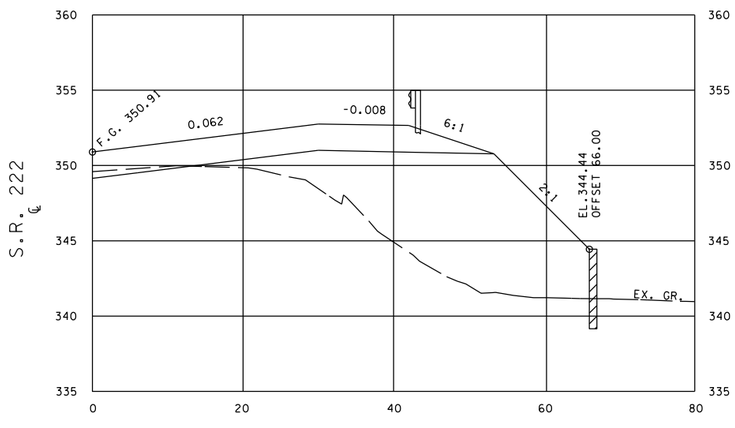


WALL PLAN VIEW
SCALE: 1" = 20'



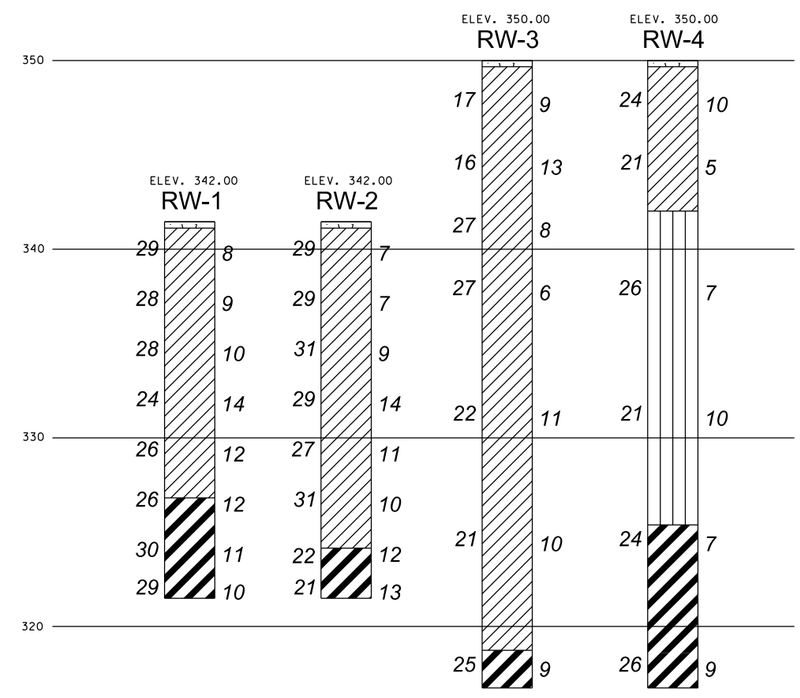
WALL FACE AREA = 266 SQ.FT.

WALL ELEVATION VIEW
SCALE: 1" = 20'H
1" = 10'V



WALL TYPICAL CROSS-SECTION @ STA. 257+50

SCALE: 1" = 10'H
1" = 5'V



LEGEND

- CLAY
- SILT
- SAND
- CLAYEY SAND
- SILTY SAND
- GRAVEL
- SANDY CLAY
- SANDY SILT
- SILTY CLAY
- FAT CLAY

Dual symbol used for soil exhibiting mixture of both; i.e., gravelly sand, sand with silt, etc.

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL No. 1 CONCEPTUAL DRAWING

PROP. S.R. 222, FAYETTE COUNTY
STA. 257+45 TO STA. 258+03

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

3/3/2014 11:44:23 AM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\RETAINING WALL\SR222WallConcept1.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW.	2014	38016-3206-04	20

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALLS SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 - EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS AND HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 AND INTERIMS.

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN SPECIAL PROVISION 624, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (I.E. REINFORCEMENT CONNECTION DEVICES, SPECIFIC MANUFACTURER AND PROPERTIES OF GEOGRID) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT. IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE WALL CONCEPT SHEET AND RELATED RETAINING WALL SHEETS TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS. THE COST FOR UNDERCUTTING AND REPLACEMENT, IF REQUIRED, SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL.

- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY - GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.

- UNLESS OTHERWISE STATED, THE WALL DESIGNER CAN ASSUME THAT MINIMUM GLOBAL STABILITY AND SETTLEMENT CRITERIA IS ACHIEVED WITH A WALL DESIGN MEETING OTHER MINIMUM EXTERNAL STABILITY REQUIREMENTS AND ASSUMING WALL FOUNDATION CONDITIONS ARE MET. WHILE THE WALL DESIGNER'S DESIGN MUST DEMONSTRATE COMPLIANCE WITH EXTERNAL STABILITY REQUIREMENTS AS DISCUSSED ABOVE, THE WALL DESIGNER MAY PROVIDE CERTIFICATION (BY SIGNING AND STAMPING BY PROFESSIONAL ENGINEER REGISTERED IN STATE OF TENNESSEE) OF THE WALL PLANS AND CALCULATIONS **FOR INTERNAL STABILITY ONLY**.

- LOAD COMBINATIONS FOR NON-MSE WALLS SHALL BE AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 AND INTERIMS.

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM OF A 1:1 SLOPE IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

ACCEPTABLE WALL TYPES

THE RETAINING WALL SHALL BE ONE OF THE WALL TYPES LISTED BELOW. FOR RETAINING WALL SYSTEMS LISTED AS BIN WALL, CRIB WALL, MSE (EITHER SEGMENTAL PANEL OR MODULAR BLOCK) AND GROUND ANCHOR WALL, THE SPECIFIC WALL SYSTEM SUPPLIER/INSTALLER SHALL BE ONE OF THOSE LISTED AS PRE–APPROVED IN THE SPECIAL PROVISION 624.

CAST-IN-PLACE CONCRETE GRAVITY WALL
CAST-IN-PLACE CONCRETE CANTILEVER WALL

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	VALUE-OTHER WALLS	NOTE *
DESIGN LIFE	75 YEARS	
DESIGN GROUND ACCELERATION (A_S)	0.396	
EFFECTIVE (DRAINED) FRICTION ANGLE		
RETAINED BACKFILL-UNCLASSIFIED SITE OR BORROW SOIL	28°	
RETAINED BACKFILL-SELECT BACKFILL	34° TO MAX 40°	1
UNIT WEIGHT		
UNCLASSIFIED SITE OR BORROW SOIL	120 POUNDS PER CUBIC FOOT	
SELECT BACKFILL MATERIAL	VARIES	1A
MINIMUM LENGTH OF WALL BASE	SEE NOTES REGARDING GLOBAL STABILITY	
LIMITING ECCENTRICITY	B/3 (SOIL), 3/8B (ROCK)	
COEFFICIENT OF SLIDING FRICTION	SEE TABLE 2 or 3	2
NOMINAL BEARING CAPACITY	SEE TABLE 2 or 3	2
RESISTANCE FACTORS		
SLIDING-STATIC	1.0	3
SLIDING-COMBINED STATIC+EARTHQUAKE	0.9	3
BEARING-STATIC	0.55	
BEARING-COMBINED STATIC+EARTHQUAKE	0.80	

TABLE 1.1
NOTES FOR TABLE 1

#	Note
1	A MINIMUM FRICTION ANGLE OF 34 DEGREES CAN BE ASSUMED FOR MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1, AND ITEM E OF *TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS.* A HIGHER FRICTION ANGLE CAN BE UTILIZED IF THE CONTRACTOR SUBMITS INDEPENDENT TESTING AND IT IS VERIFIED BY TDOT. HOWEVER, IN NO CASE SHALL THE FRICTION ANGLE FOR ANALYSIS EXCEED 40-DEGREES.
1A	SELECT BACKFILL UNIT WEIGHT TO BE DETERMINED BY CONTRACTOR/DESIGNER DEPENDING ON ACTUAL BACKFILL MATERIAL USED. SELECT BACKFILL IS DEFINED AS MATERIAL MEETING SPECIFICATIONS IN SECTION F, PART 1, AND ITEM E OF *TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS*. IN ORDER TO UTILIZE ϕ FOR SELECT BACKFILL DESIGN, SELECT BACKFILL MUST BE PLACED FOR A MINIMUM ZONE FORMED BY A 1:1 SLOPE FROM 2 FEET BEHIND THE BOTTOM OF BACK OF WALL FOOTING.
2	THESE VALUES WILL BE PROVIDED IN TABLE 2.
3	PASSIVE RESISTANCE SHALL **NOT** BE CONSIDERED IN EVALUATION OF SLIDING RESISTANCE.

TABLE 2-FOUNDATION PARAMETERS AND REQUIREMENTS FOR GRAVITY OR CANTILEVER WALLS

FOUNDATION DESIGN PARAMETERS FOR GRAVITY / CANTILEVER WALLS				
STATION (S.R. 222)	STATION (WALL)	FOUNDATION (REINFORCED ZONE) BEARING CONDITION REQUIREMENT	NOMINAL BEARING CAPACITY (PSF)	COEFFICIENT OF SLIDING FRICTION
257+45 TO 258+03	10+00 TO 10+58	UNDERCUT 2 FEET BELOW PROPOSED FOOTING ELEVATION AND REPLACE WITH SELECT GRANULAR FILL	5,000	0.50

NOTES REGARDING GLOBAL STABILITY

THE FOLLOWING CONDITIONS ARE REQUIRED TO MEET THE MINIMUM REQUIRED FACTORS OF SAFETY FOR GLOBAL STABILITY:

STATION LIMITS (S.R. 222)	STATION LIMITS (WALL)	REQUIREMENT FOR GLOBAL STABILITY: CANTILEVER WALL
257+45 TO 258+03	10+00 TO 10+58	HEEL LENGTH EXTENDS A MINIMUM OF 4 FEET BEHIND THE WALL, AND WALL EMBEDMENT IS A MINIMUM OF 2 FEET.

OTHER DESIGN REQUIREMENTS

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALLS. DETAILS OF THE DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS. IF A CONCRETE CANTILEVER WALL IS USED, THE WALL DESGINER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL STEM WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

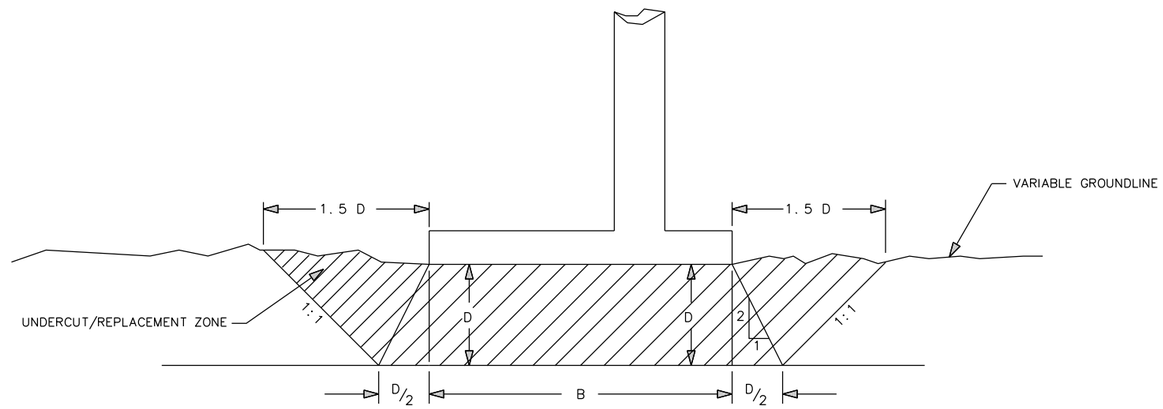
UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

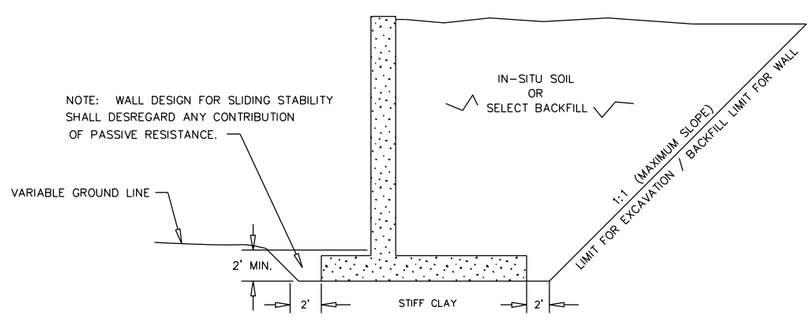
RETAINING WALL NO. 1 CONCEPTUAL DRAWING
SR-222℄ RT
STA. 257.45+00 TO 258.03+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW.	2014	38016-3206-04	2P

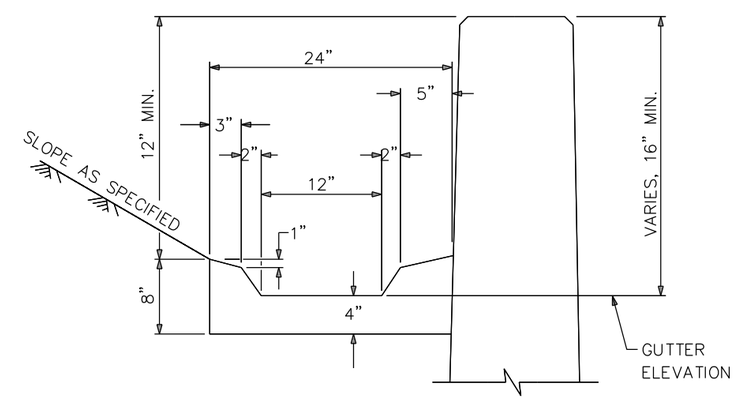
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



SCHEMATIC FOR UNDERCUT/REPLACEMENT – WHERE REQUIRED



SPREAD FOOTING FOUNDATION ON SOIL



TYPICAL GUTTER DETAIL

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL NO. 1 CONCEPTUAL DRAWING

SR-222 RT
STA. 257.45+00 TO 258.03+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	3
CONST.	2014	38016-3206-04	3

UTILITIES

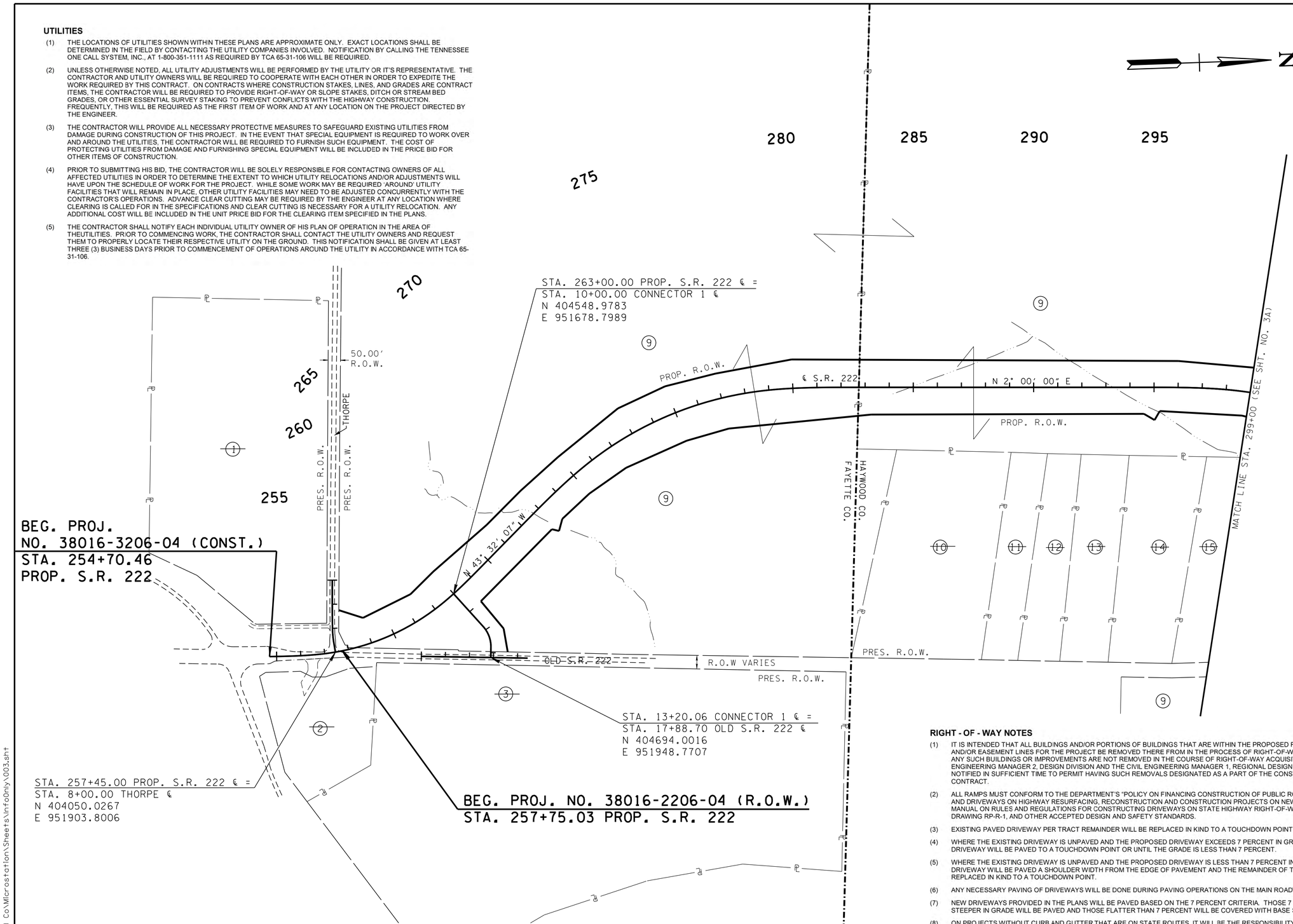
(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S 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 FOR 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 THEUTILITIES. 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.



UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	MILLINGTON TELEPHONE	901.872.5210	CLAY LAVELLE	4880 NAVY ROAD	MILLINGTON	TN	38053
	AT&T	731.217.7575	MIKE HALTOM	315 E. COLLEGE ST	JACKSON	TN	38301
ELECTRIC	CHICKASAW ELECTRIC COOPERATIVE	901.465.3591	CHRIS PARKER	17970 HWY. 64	SOMERVILLE	TN	38068

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 THERE FROM 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, DESIGN DIVISION AND THE CIVIL ENGINEERING MANAGER 1, REGIONAL DESIGN OFFICE, ARE 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 EXCEEDS 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 OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(9) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

BEG. PROJ. TO STA.299+00

SCALE: 1"=200'

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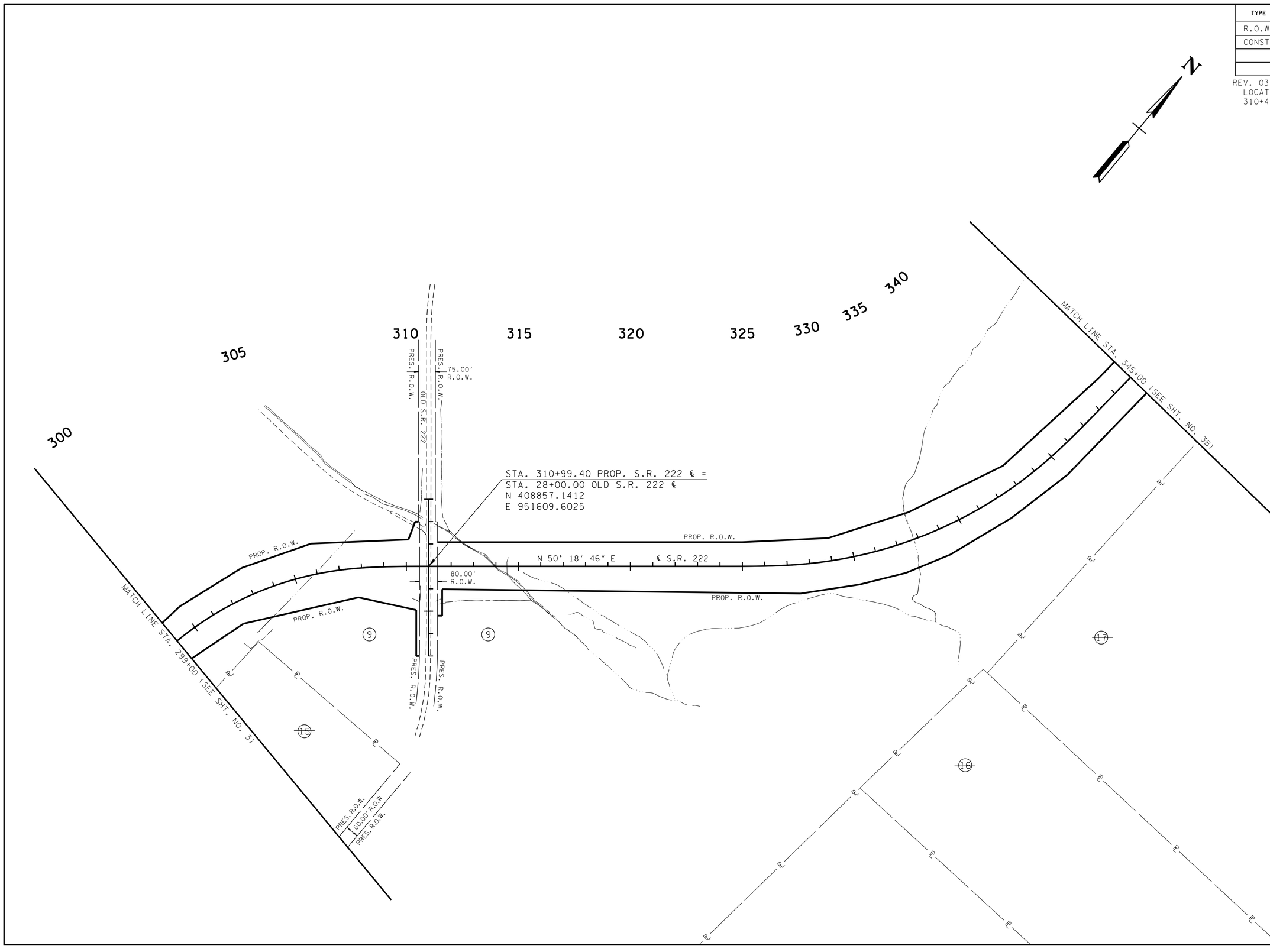
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\003.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	3A
CONST.	2014	38016-3206-04	3A

REV. 03-17-14: REVISED R.O.W. LOCATION AT STA. 310+10 TO STA. 310+40(±) LT. AND 311+60(±) RT.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.299+00 TO STA.345+00

SCALE: 1"=200'

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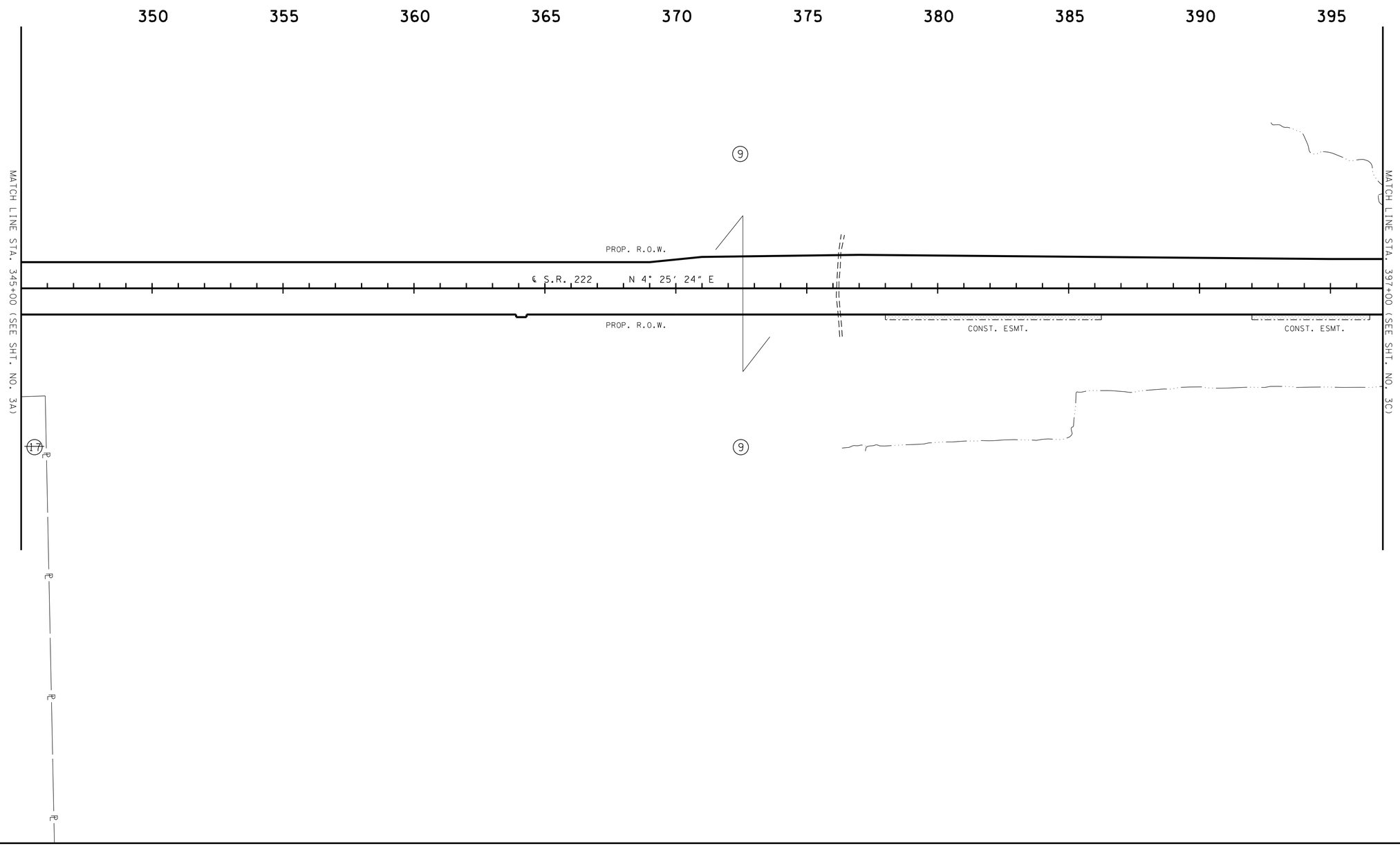
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	3B
CONST.	2014	38016-3206-04	3B



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.345+00 TO STA.397+00

SCALE: 1"=200'

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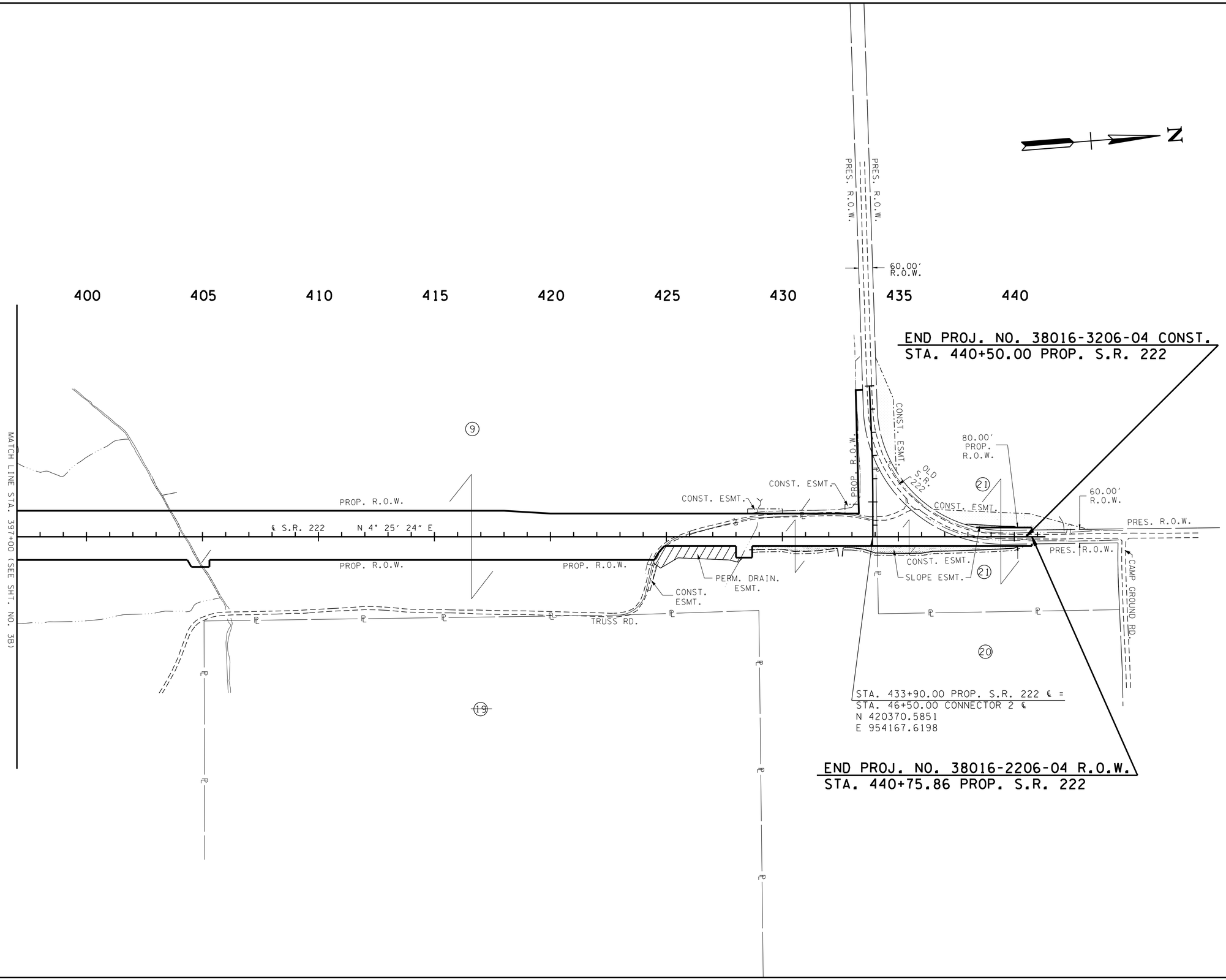
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	3C
CONST.	2014	38016-3206-04	3C

REV. 01-06-14: REMOVED SLOPE ESM'T. BETWEEN 424+91 RT. AND 428+00 RT. AND ADDED PERM. DRAIN. ESM'T TO TRACT 20.
REV. 01-27-14: ADDED TEMP. CONST. ESM'T. ON TRACT 20.
REV. 03-17-14: REVISED R.O.W. LOCATION AT STA. 405+30(±) RT., ON LT. AND RT. OF TRUSS RD., AND AT STA. 424+00(±) RT.
REV. 08-12-14: REMOVED PROP. TRUSS RD. ALIGN. AND REVISED R.O.W. FROM 418+20 TO 419+65 RT. AND 423+95 TO 424+48.5 RT.



UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.397+00 TO END PROJ.

SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	3D
CONST.	2014	38016-3206-04	3D

REV. 01-06-14: REVISED SLOPE AND CONST. ESM'T. AND ADDED PERM. DRAIN ESM'T. FOR TRACT 20. REVISED AREA TO BE ACQUIRED LEFT FOR TRACT 21.
REV. 01-27-14: REVISED CONST. ESM'T. ON TRACT 20.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
~~1~~	~~MURIEL THORP ET AL~~	~~012~~	~~002.00~~	~~75~~	~~605~~											
~~2~~	~~OTHMAN AL JAFARI & FEDA AL JAFARI~~	~~012~~	~~005.00~~	~~655~~	~~257~~											
~~3~~	~~HOUSTON A. LEATH, JR.~~	~~005~~	~~003.00~~	~~791~~	~~503~~											
4	NOT USED															
5	NOT USED															
6	NOT USED															
7	NOT USED															
8	NOT USED															
[1] 9	STATE OF TENNESSEE, ECONOMIC AND COMMUNITY DEVELOPMENT	137	002.00	71	203 - 245											
~~10~~	~~GEORGE M. OLIVER AND BONITA KAY OLIVER~~	~~150~~	~~009.03~~	~~56~~	~~142~~											
~~11~~	~~WALTER F. FURR, TRUSTEE OF THE WALTER F. FURR REVOCABLE LIVING TRUST~~	~~150~~	~~009.02~~	~~49~~	~~560~~											
~~12~~	~~JEREMY GRANDBERRY~~	~~150~~	~~009.00~~	~~109~~	~~817~~											
~~13~~	~~GINGER K. DOHOGNE~~	~~150~~	~~009.05~~	~~103~~	~~749~~											
~~14~~	~~CLARICE R. WHITE~~	~~150~~	~~009.04~~	~~226~~	~~30~~											
~~15~~	~~JOE ALLEN GREER AND WIFE, RUBY A. GREER~~	~~150~~	~~009.01~~	~~165~~	~~326~~											
~~16~~	~~GENE NEWMAN~~	~~150~~	~~005.00~~	~~71~~	~~65~~											
~~17~~	~~PHILLIP STUART, BRIAN STUART, STEPHEN STUART AND SUSAN S. EVANS, TUSTEES OF THE STUART LAND TRUST~~	~~150~~	~~004.01~~	~~66~~	~~482~~											
18	NOT USED															
~~19~~	~~CARDINAL FARMS, L.L.C.~~	~~137~~	~~004.00~~	~~77~~	~~90~~											
[2] 20	AMY NEWMAN AND HUSBAND, GLENN NEWMAN	137	003.00	69	843	1.402	213.018	214.420	1.402	0.897	2.299	0 S.F.	212.121	0.486 AC	0.191 AC	0.166 AC
[2] 21	MEUX HILL LLC	134	034.00	83	879	386.734	7.266	394.000	0.973	0.425	1.398	385.761	6.841	——	0.347 AC	1.337 AC

FOOTNOTES

[1] R.O.W. NEEDED FOR THIS PROJECT TO BE TRANSFERRED TO TDOT PRIOR TO THE LETTING OF THIS PROJECT.

[2] R.O.W. AND EASEMENTS ACQUIRED BY THE ECONOMIC AND COMMUNITY DEVELOPMENT AS AN AGENT FOR TDOT PRIOR TO THE LETTING OF THIS PROJECT.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 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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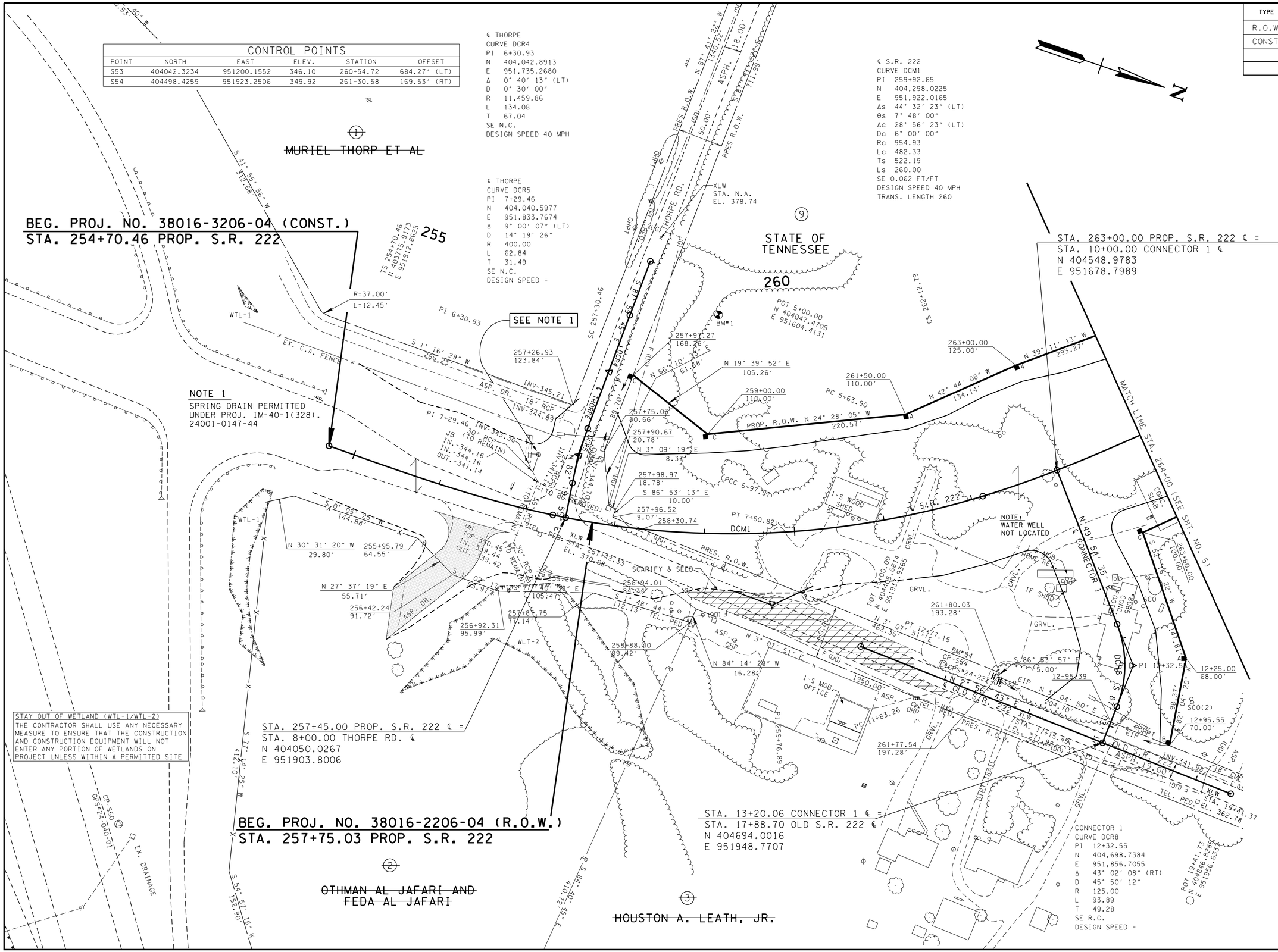
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	4
CONST.	2014	38016-3206-04	4

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S53	404042.3234	951200.1552	346.10	260+54.72	684.27′ (LT)
S54	404498.4259	951923.2506	349.92	261+30.58	169.53′ (RT)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

BEG. PROJ.TO STA. 264+00

SCALE: 1"= 50′

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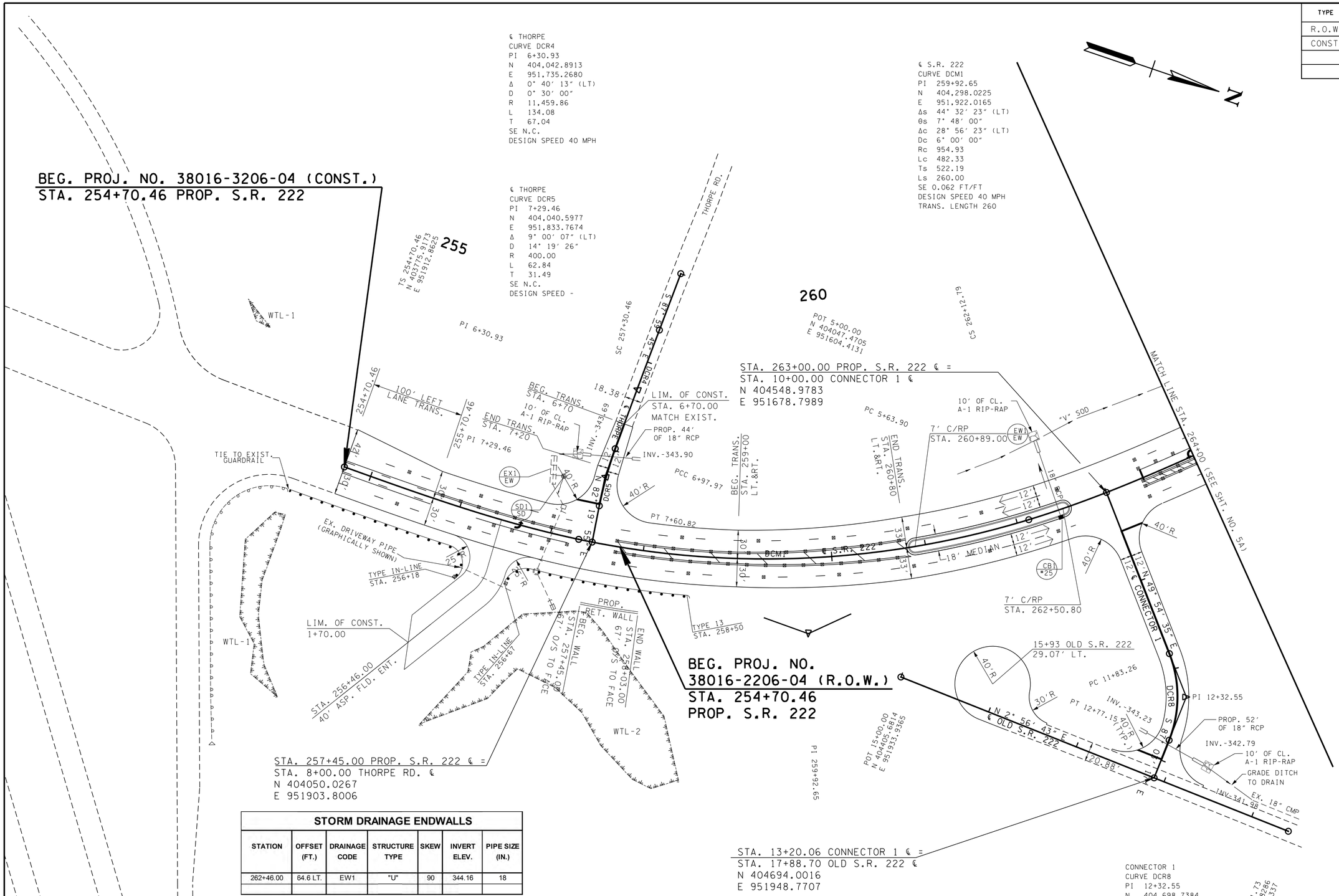
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	4A
CONST.	2014	38016-3206-04	4A



STORM DRAINAGE ENDWALLS

STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	SKEW	INVERT ELEV.	PIPE SIZE (IN.)
262+46.00	64.6 LT.	EW1	"U"	90	344.16	18

CATCH BASINS AND SPRING DRAIN BOX

CODE	STATION	OFFSET (FT.)	STRUCTURE TYPE	GRATE/TOP ELEV.	INV. ELEV.	D.A. (AC.)	Q (CFS)	COMMENT
CB1	262+46.00	7.0	25LP	352.33	347.59	0.075	0.48	
SD1	256+99.26	-61.75	SD	346.50	343.50			SPG

STORM SEWER PIPES

FROM		TO		%	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					BEDDING	Q(DES)	Q(CAP)
CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	18″	24″	30″	36″	42″	MATERIAL (C.Y.)	(CF/S)	(CF/S)
CB1	347.59	EW1	344.16	4.76	72					15.3	0.461	22.94
SD1	343.50	EX1	343.40	1.67	6							

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPSED LAYOUT

BEG. PROJ.TO STA. 264+00

SCALE: 1"= 50′

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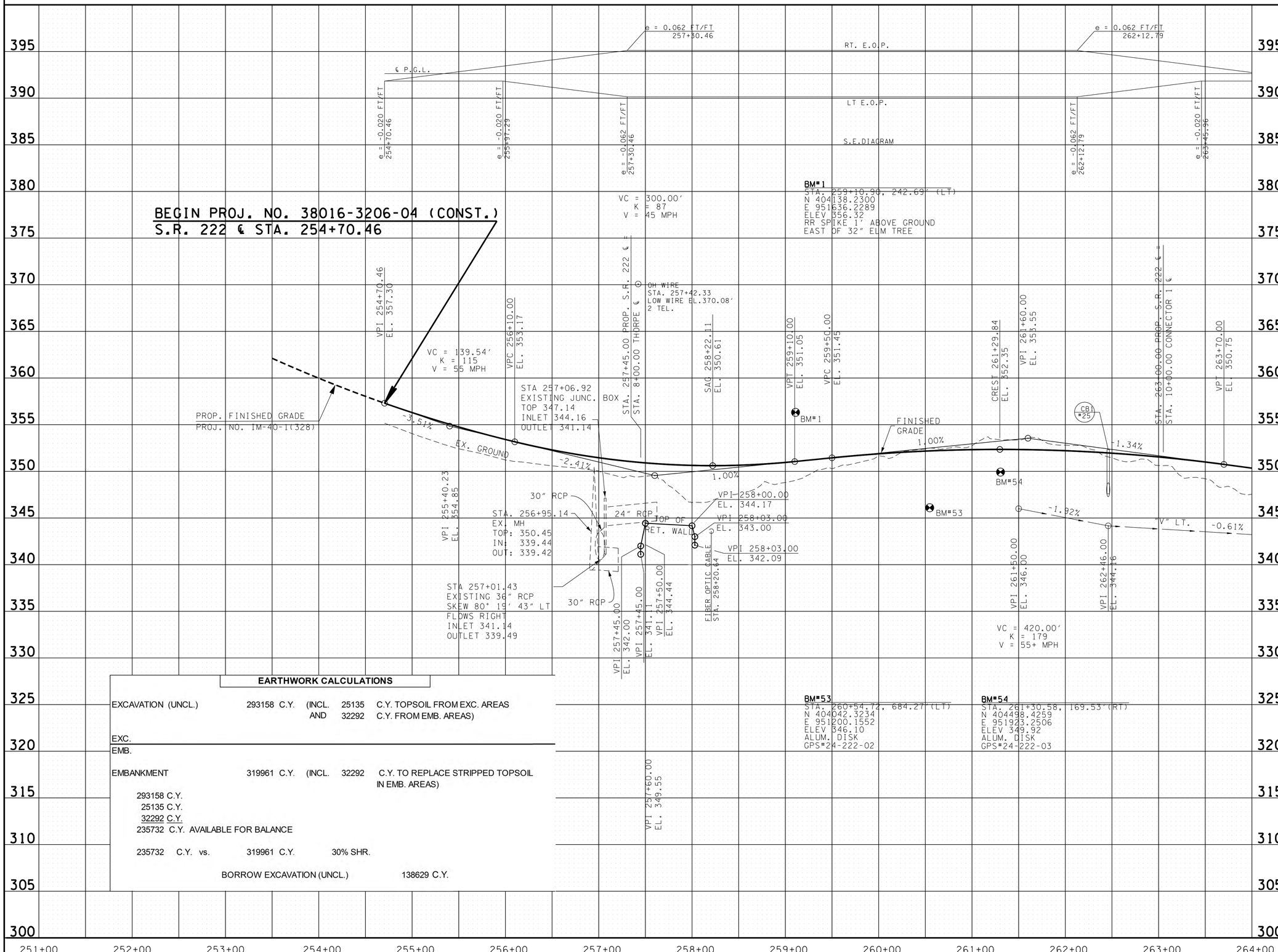
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	4B
CONST.	2014	38016-3206-04	4B



EARTHWORK CALCULATIONS

EXCAVATION (UNCL.) 293158 C.Y. (INCL. 25135 C.Y. TOPSOIL FROM EXC. AREAS AND 32292 C.Y. FROM EMB. AREAS)

EXC.

EMB.

EMBANKMENT 319961 C.Y. (INCL. 32292 C.Y. TO REPLACE STRIPPED TOPSOIL IN EMB. AREAS)

293158 C.Y.
25135 C.Y.
32292 C.Y.
235732 C.Y. AVAILABLE FOR BALANCE

235732 C.Y. vs. 319961 C.Y. 30% SHR.

BORROW EXCAVATION (UNCL.) 138629 C.Y.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

BEG. PROJ. TO STA. 264+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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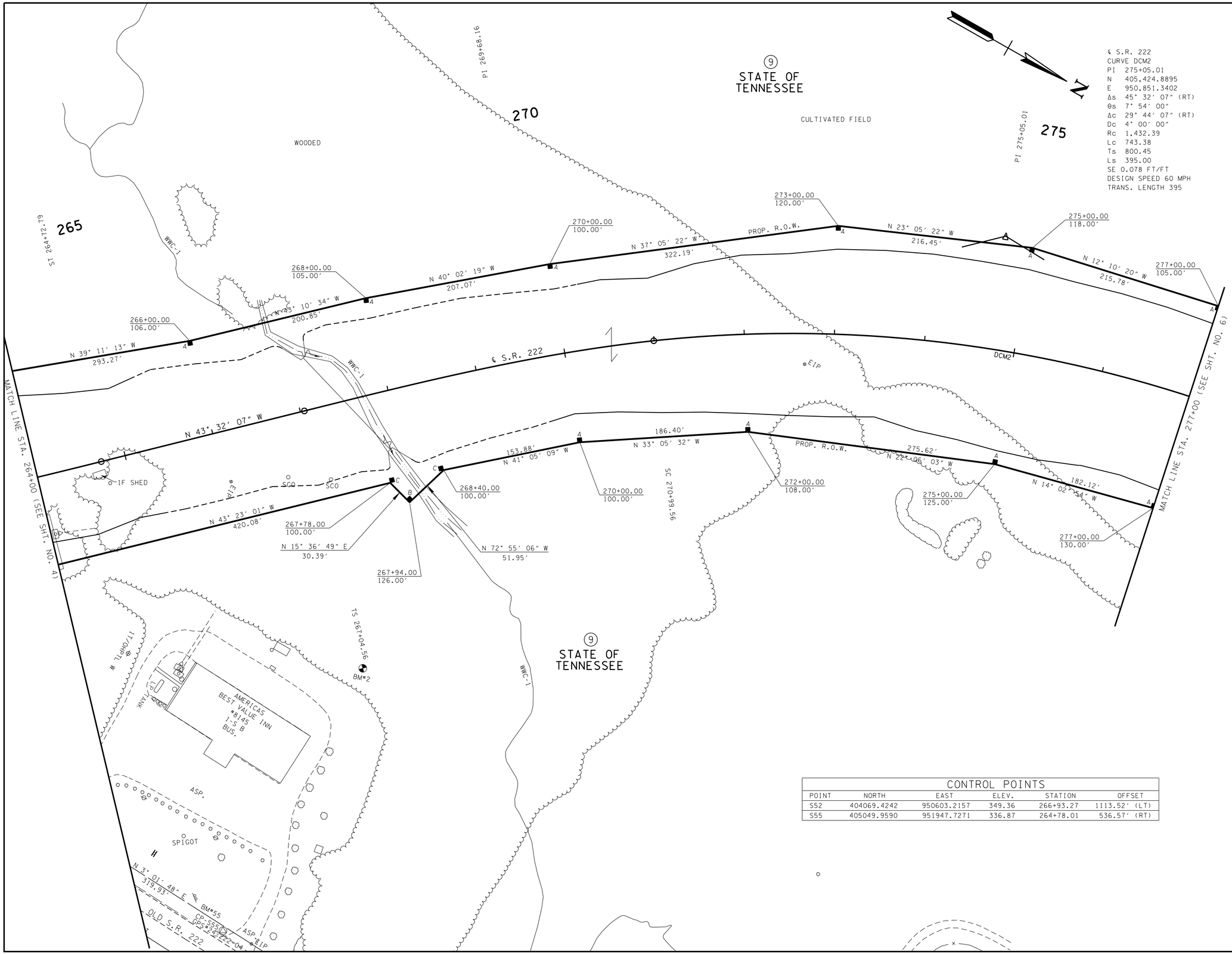
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	5
CONST.	2014	38016-3206-04	5



℄ S.R. 222
CURVE DCM2
PI 275+05.01
N 405,424.8895
E 950,851.3402
Δs 45° 32' 07" (RT)
Θs 7° 54' 00"
Δc 29° 44' 07" (RT)
Dc 4° 00' 00"
Rc 1,432.39
Lc 743.38
Ts 800.45
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 395

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S52	404069.4242	950603.2157	349.36	266+93.27	1113.52' (LT)
S55	405049.9590	951947.7271	336.87	264+78.01	536.57' (RT)

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 264+00 TO STA. 277+00

SCALE: 1"= 50'

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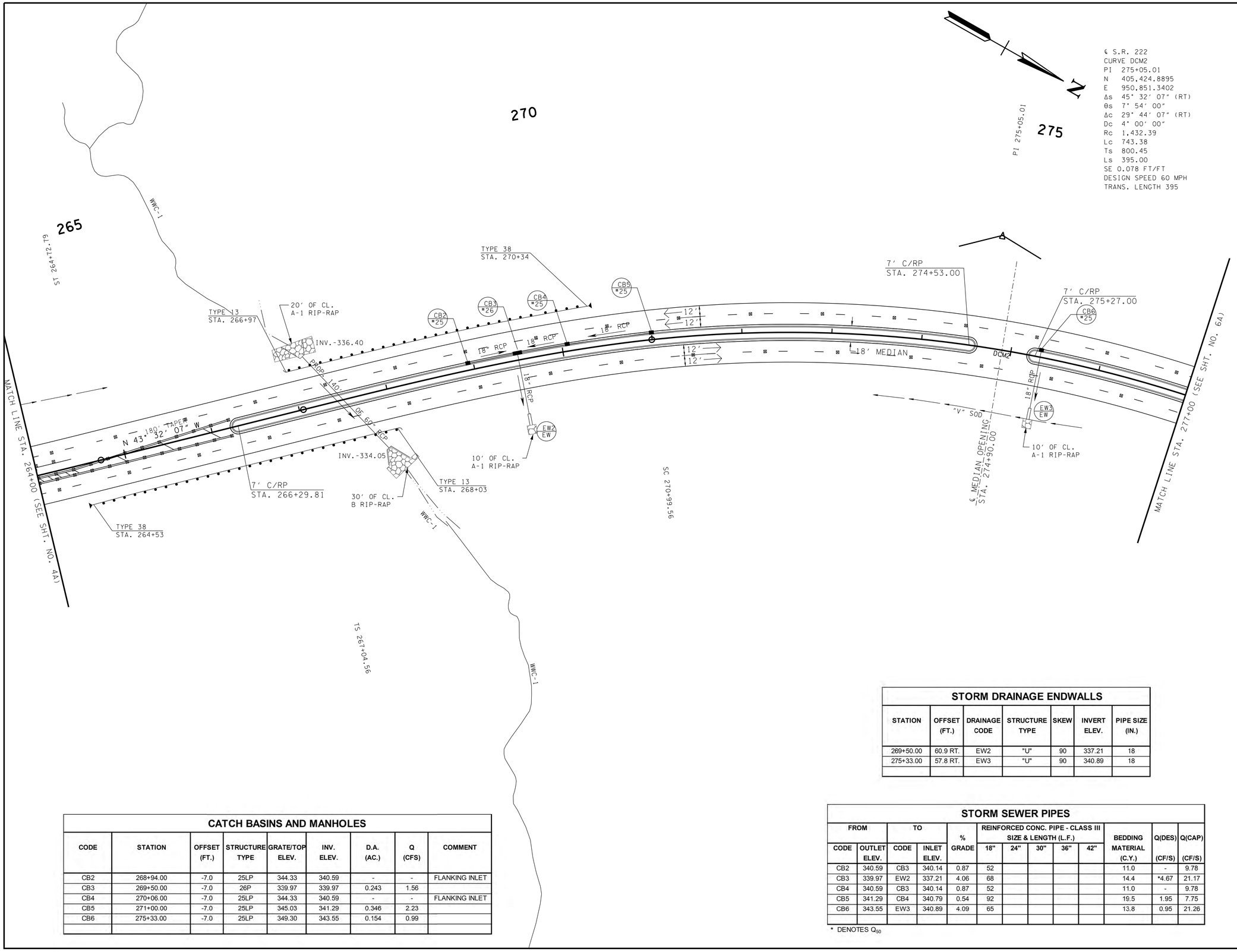
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	5A
CONST.	2014	38016-3206-04	5A



STORM DRAINAGE ENDWALLS

STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	SKEW	INVERT ELEV.	PIPE SIZE (IN.)
269+50.00	60.9 RT.	EW2	"U"	90	337.21	18
275+33.00	57.8 RT.	EW3	"U"	90	340.89	18

CATCH BASINS AND MANHOLES

CODE	STATION	OFFSET (FT.)	STRUCTURE TYPE	GRATE/TOP ELEV.	INV. ELEV.	D.A. (AC.)	Q (CFS)	COMMENT
CB2	268+94.00	-7.0	25LP	344.33	340.59	-	-	FLANKING INLET
CB3	269+50.00	-7.0	26P	339.97	339.97	0.243	1.56	
CB4	270+06.00	-7.0	25LP	344.33	340.59	-	-	FLANKING INLET
CB5	271+00.00	-7.0	25LP	345.03	341.29	0.346	2.23	
CB6	275+33.00	-7.0	25LP	349.30	343.55	0.154	0.99	

STORM SEWER PIPES

FROM		TO		%	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					BEDDING	Q(DES)	Q(CAP)
CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	18"	24"	30"	36"	42"	MATERIAL (C.Y.)	(CF/S)	(CF/S)
CB2	340.59	CB3	340.14	0.87	52					11.0	-	9.78
CB3	339.97	EW2	337.21	4.06	68					14.4	*4.67	21.17
CB4	340.59	CB3	340.14	0.87	52					11.0	-	9.78
CB5	341.29	CB4	340.79	0.54	92					19.5	1.95	7.75
CB6	343.55	EW3	340.89	4.09	65					13.8	0.95	21.26

* DENOTES Q_{50}

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 264+00 TO STA. 277+00

SCALE: 1"= 50′

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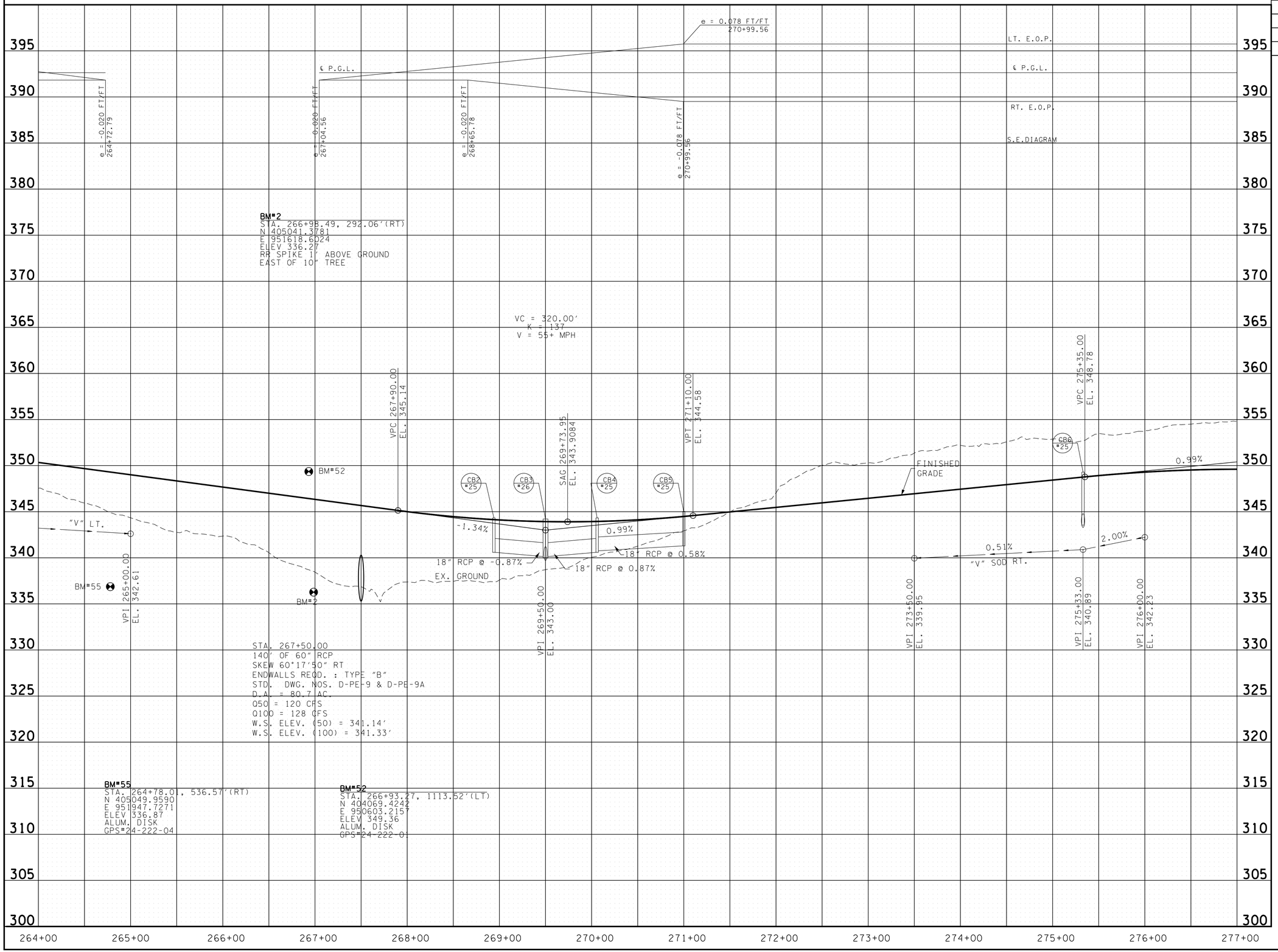
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	5B
CONST.	2014	38016-3206-04	5B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 264+00 TO STA. 277+00

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

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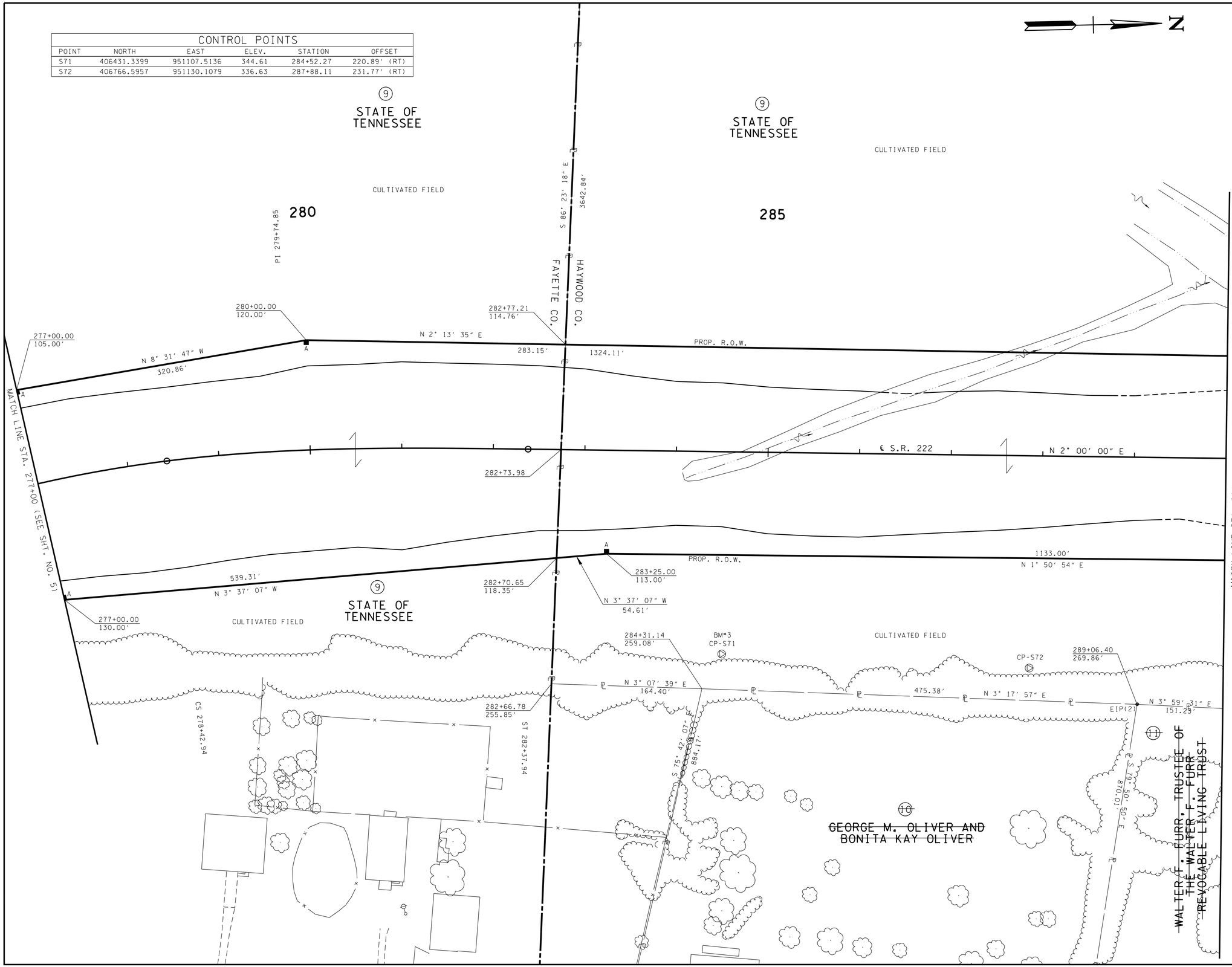
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	6
CONST.	2014	38016-3206-04	6

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S71	406431.3399	951107.5136	344.61	284+52.27	220.89' (RT)
S72	406766.5957	951130.1079	336.63	287+88.11	231.77' (RT)



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 277+00 TO STA. 290+00

SCALE: 1"= 50'

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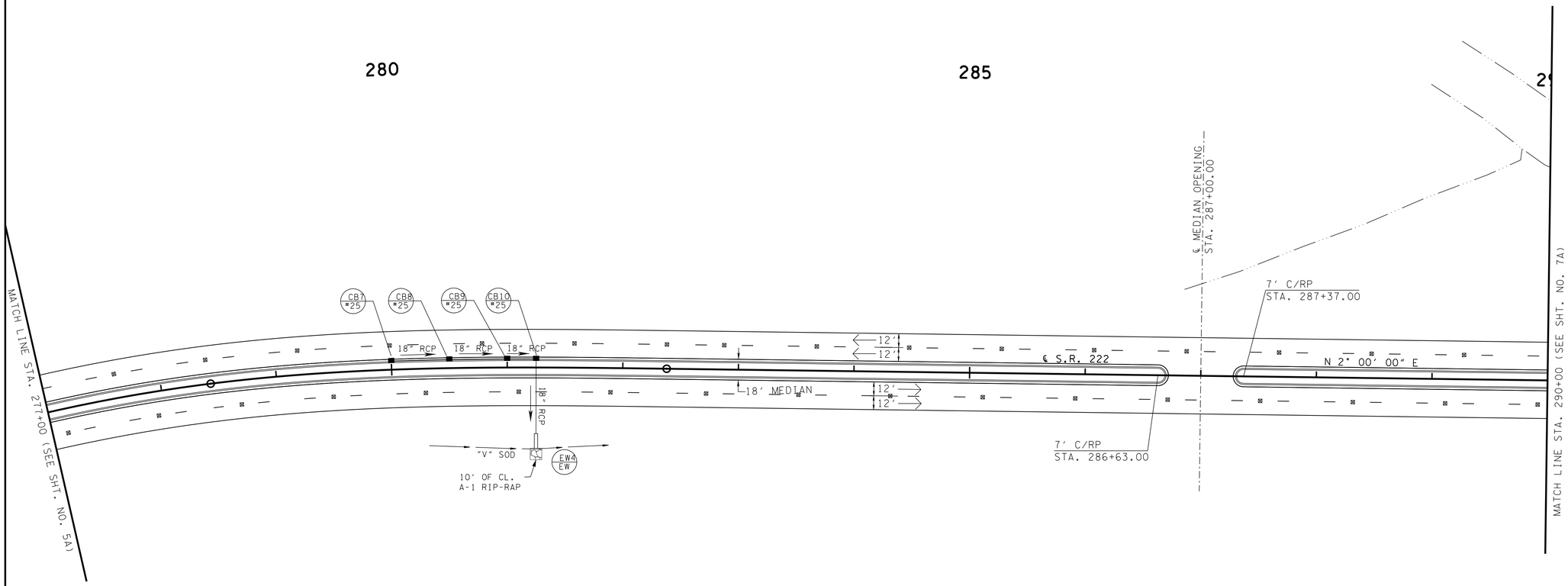
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	6A
CONST.	2014	38016-3206-04	6A



CS 278+42.94

ST 282+37.94

STORM DRAINAGE ENDWALLS

STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	SKEW	INVERT ELEV.	PIPE SIZE (IN.)
281+25.00	57.1 RT.	EW4	"U"	90	339.59	18

CATCH BASINS AND MANHOLES

CODE	STATION	OFFSET (FT.)	STRUCTURE TYPE	GRATE/TOP ELEV.	INV. ELEV.	D.A. (AC.)	Q (CFS)	COMMENT
CB7	280+00.00	-7.0	25LP	347.31	343.57	0.256	1.65	
CB8	280+50.00	-7.0	25LP	346.39	342.65	0.030	0.19	
CB9	281+00.00	-7.0	25LP	345.48	341.74	0.030	0.19	
CB10	281+25.00	-7.0	25LP	345.03	340.78	0.015	0.10	

STORM SEWER PIPES

FROM		TO		%	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					BEDDING	Q(DES)	Q(CAP)
CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	18"	24"	30"	36"	42"	MATERIAL (C.Y.)	(CF/S)	(CF/S)
CB7	343.57	CB8	342.82	1.56	48					10.2	1.28	13.14
CB8	342.65	CB9	341.91	1.54	48					10.2	1.75	13.05
CB9	341.74	CB10	341.28	1.92	24					5.1	1.98	14.55
CB10	340.78	EW4	339.59	1.86	64					13.6	2.09	14.33

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 277+00 TO STA. 290+00

SCALE: 1"= 50'

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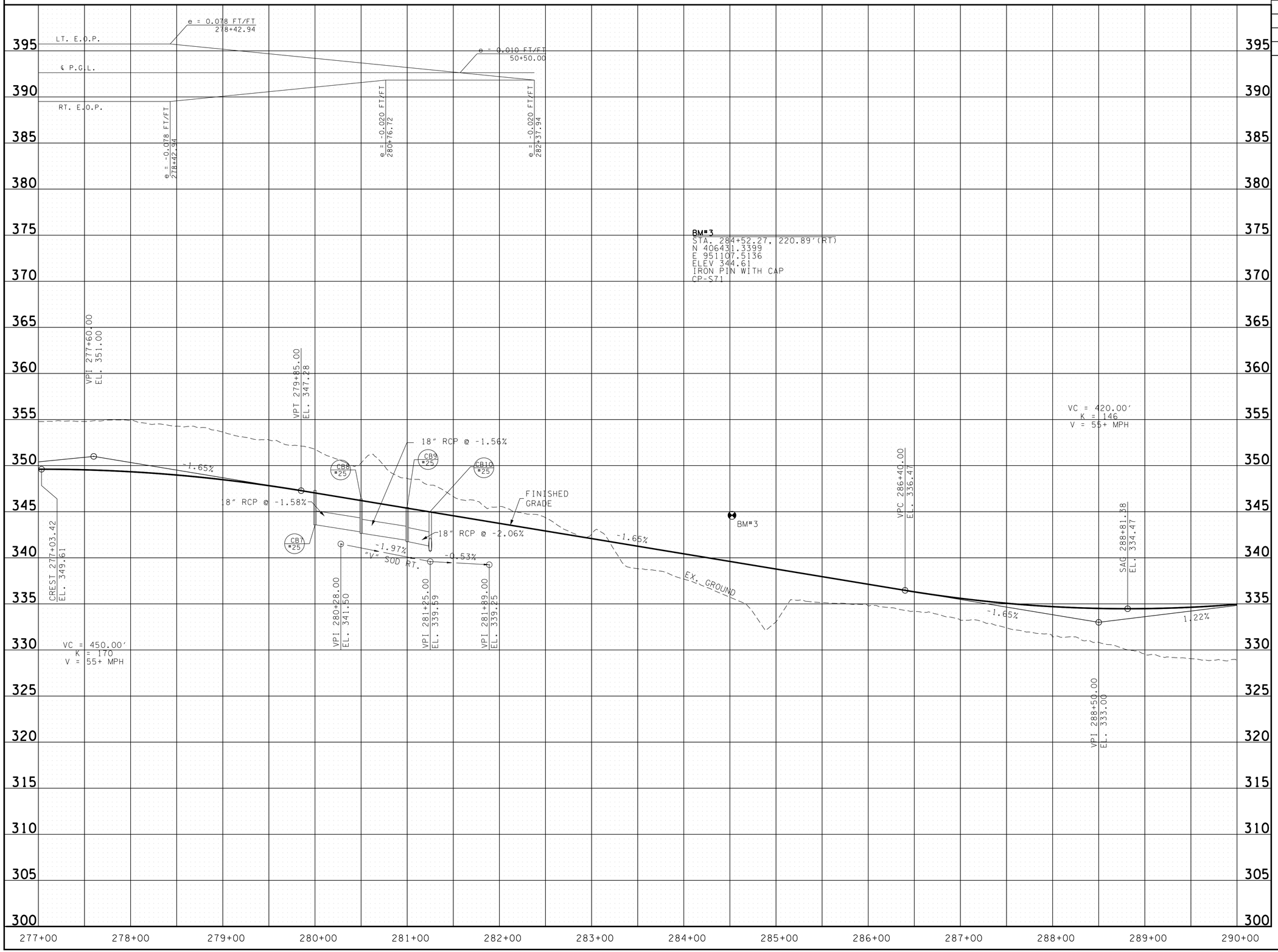
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	6B
CONST.	2014	38016-3206-04	6B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 277+00 TO STA.290+00

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

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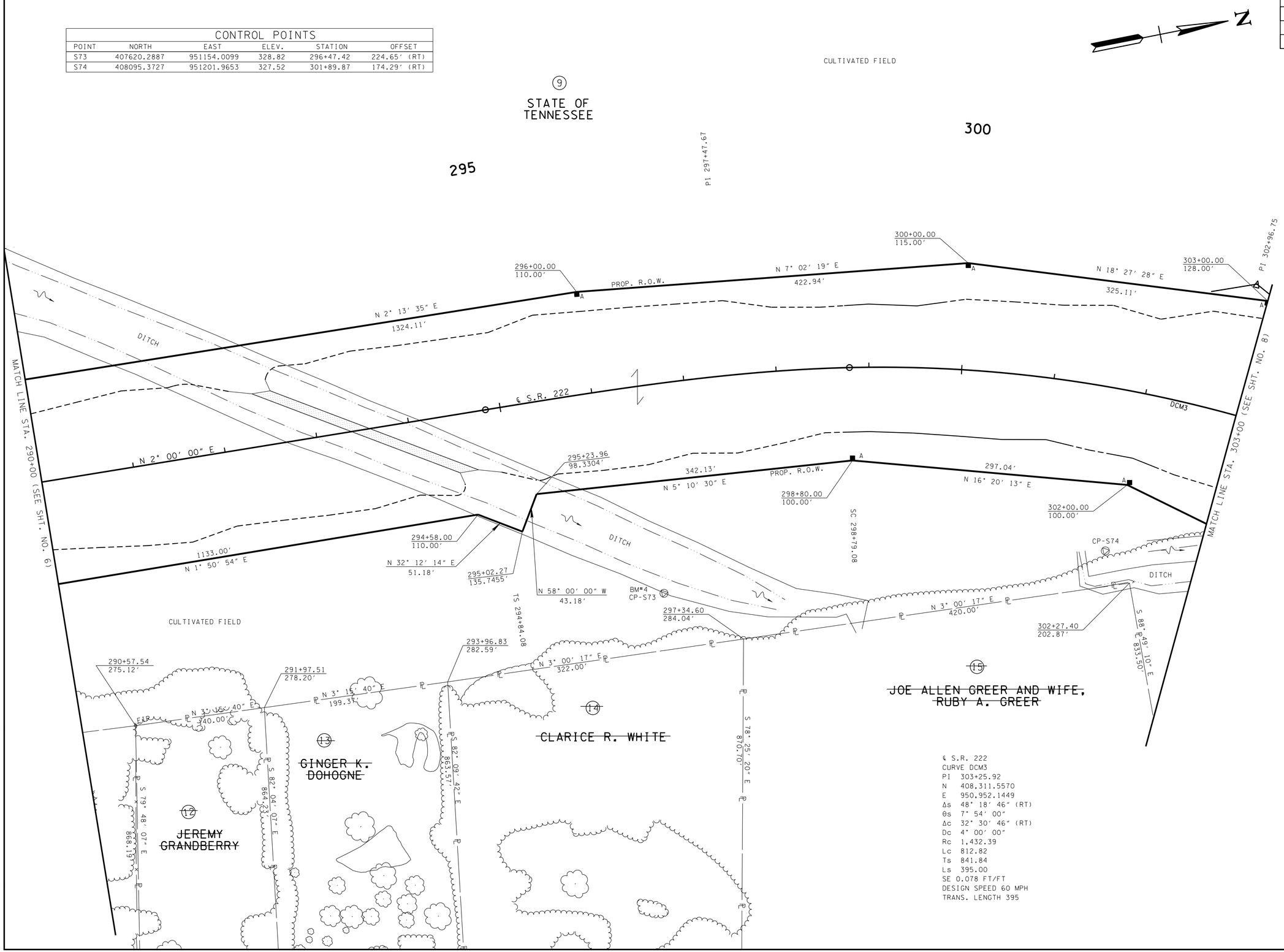
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	7
CONST.	2014	38016-3206-04	7

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S73	407620.2887	951154.0099	328.82	296+47.42	224.65' (RT)
S74	408095.3727	951201.9653	327.52	301+89.87	174.29' (RT)



℄ S.R. 222
CURVE DCM3
PI 303+25.92
N 408,311.5570
E 950,952.1449
Δs 48° 18' 46" (RT)
θs 7° 54' 00"
Δc 32° 30' 46" (RT)
Dc 4° 00' 00"
Rc 1,432.39
Lc 812.82
Ts 841.84
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 395

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 290+00 TO STA. 303+00

SCALE: 1"= 50'

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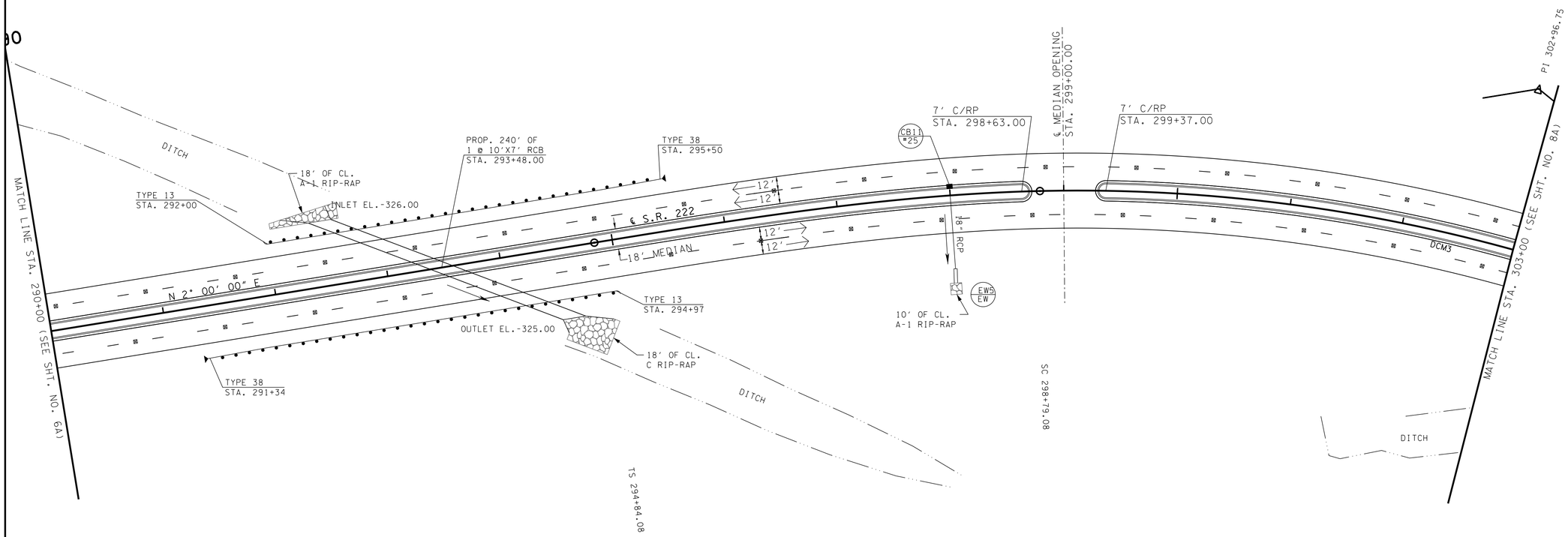
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	7A
CONST.	2014	38016-3206-04	7A



STORM DRAINAGE ENDWALLS

STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	SKEW	INVERT ELEV.	PIPE SIZE (IN.)
298+00.00	64.7 RT.	EW5	"U"	90	328.06	18

CATCH BASINS AND MANHOLES

CODE	STATION	OFFSET (FT.)	STRUCTURE TYPE	GRATE/TOP ELEV.	INV. ELEV.	D.A. (AC.)	Q (CFS)	COMMENT
CB11	298+00.00	-7.0	25LP	336.59	331.61	0.166	1.07	

STORM SEWER PIPES

FROM		TO		%	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					BEDDING	Q(DES)	Q(CAP)
CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	18"	24"	30"	36"	42"	MATERIAL (C.Y.)	(CF/S)	(CF/S)
CB11	331.61	EW5	328.06	5.00	71					15.1	0.98	23.50

℄ S.R. 222
CURVE DCM3
PI 303+25.92
N 408,311.5570
E 950,952.1449
Δs 48° 18' 46" (RT)
θs 7° 54' 00"
Δc 32° 30' 46" (RT)
Dc 4° 00' 00"
Rc 1,432.39
Lc 812.82
Ts 841.84
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 395

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 290+00 TO STA. 303+00

SCALE: 1"= 50'

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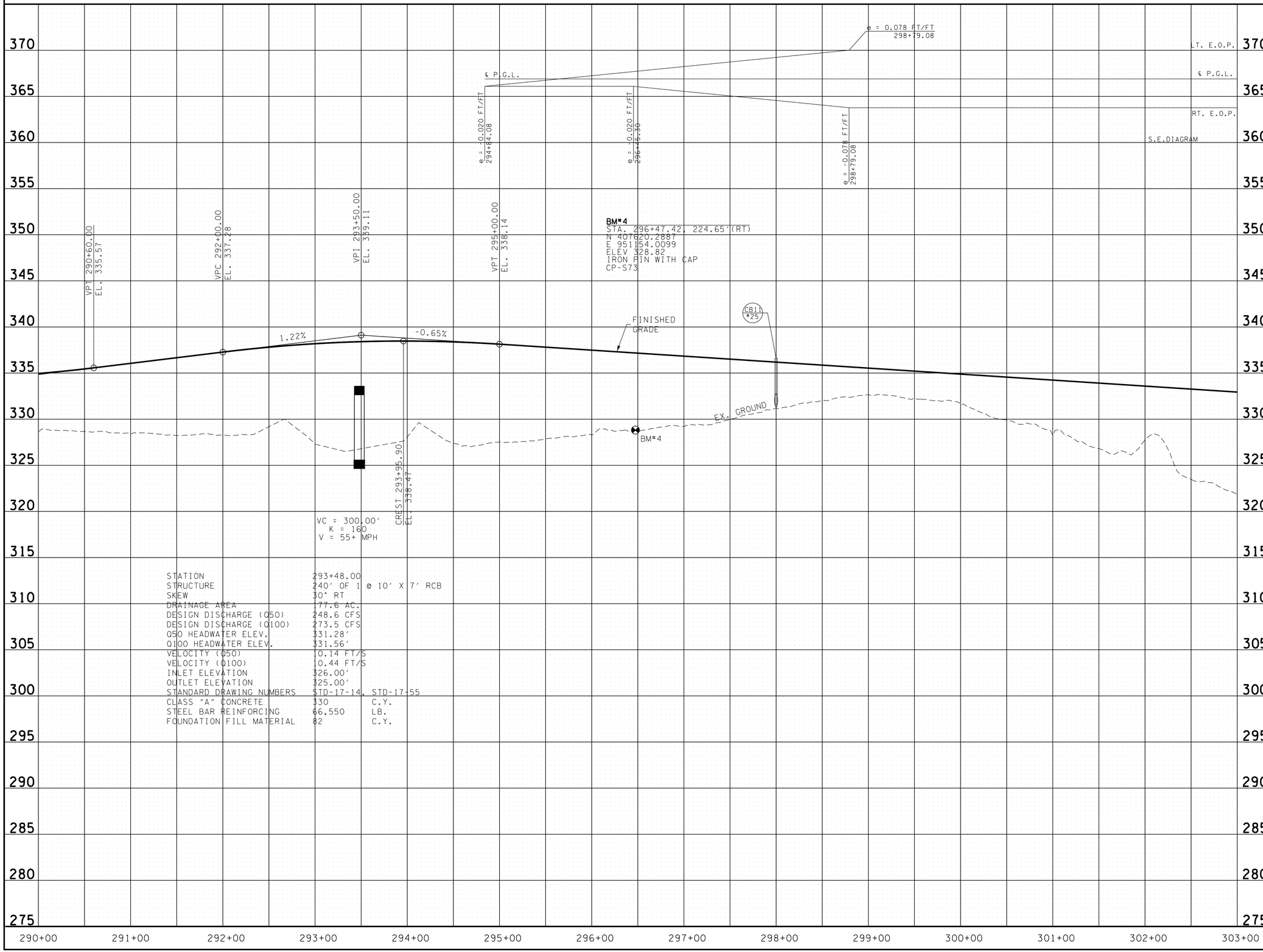
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	7B
CONST.	2014	38016-3206-04	7B



STATION	293+48.00
STRUCTURE	240' OF 1 @ 10' X 7' RCB
SKEW	30° RT
DRAINAGE AREA	177.6 AC.
DESIGN DISCHARGE (Q50)	248.6 CFS
DESIGN DISCHARGE (Q100)	273.5 CFS
Q50 HEADWATER ELEV.	331.28'
Q100 HEADWATER ELEV.	331.56'
VELOCITY (Q50)	10.14 FT/S
VELOCITY (Q100)	10.44 FT/S
INLET ELEVATION	326.00'
OUTLET ELEVATION	325.00'
STANDARD DRAWING NUMBERS	STD-17-14, STD-17-55
CLASS "A" CONCRETE	330 C.Y.
STEEL BAR REINFORCING	66,550 LB.
FOUNDATION FILL MATERIAL	82 C.Y.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 290+00 TO STA.303+00

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

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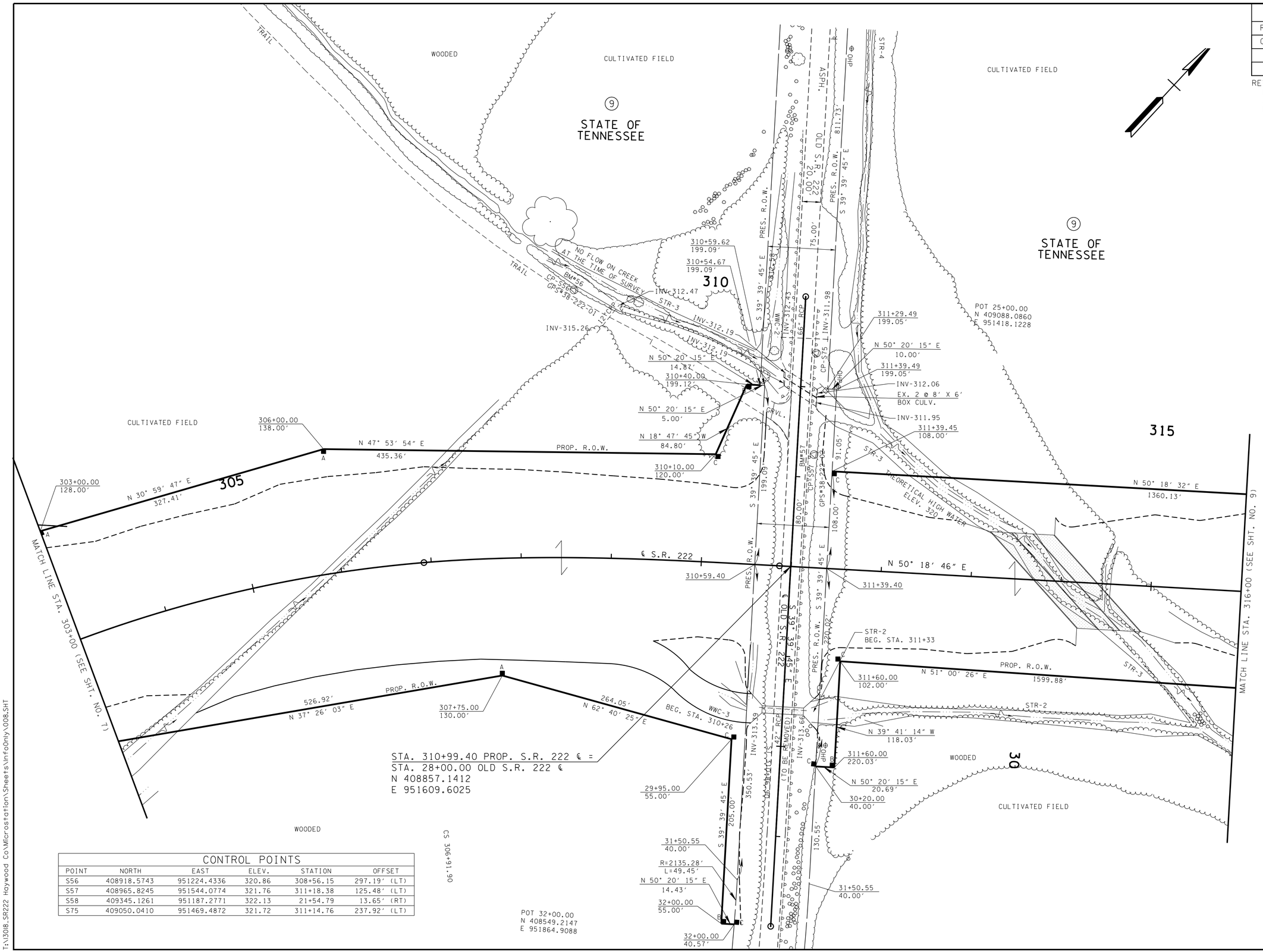
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	8
CONST.	2014	38016-3206-04	8

REV. 03-13-14: REVISED R.O.W. LOCATION AT STA. 310+10 TO 310+40(±) LT. AND STA. 311+60(±) RT.



CONTROL POINTS				
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S56	408918.5743	951224.4336	320.86	308+56.15	297.19' (LT)
S57	408965.8245	951544.0774	321.76	311+18.38	125.48' (LT)
S58	409345.1261	951187.2771	322.13	21+54.79	13.65' (RT)
S75	409050.0410	951469.4872	321.72	311+14.76	237.92' (LT)

UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 303+00 TO STA. 316+00

SCALE: 1"= 50'

8/12/2014 4:33:33 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	8A
CONST.	2014	38016-3206-04	8A

CATCH BASINS AND MANHOLES

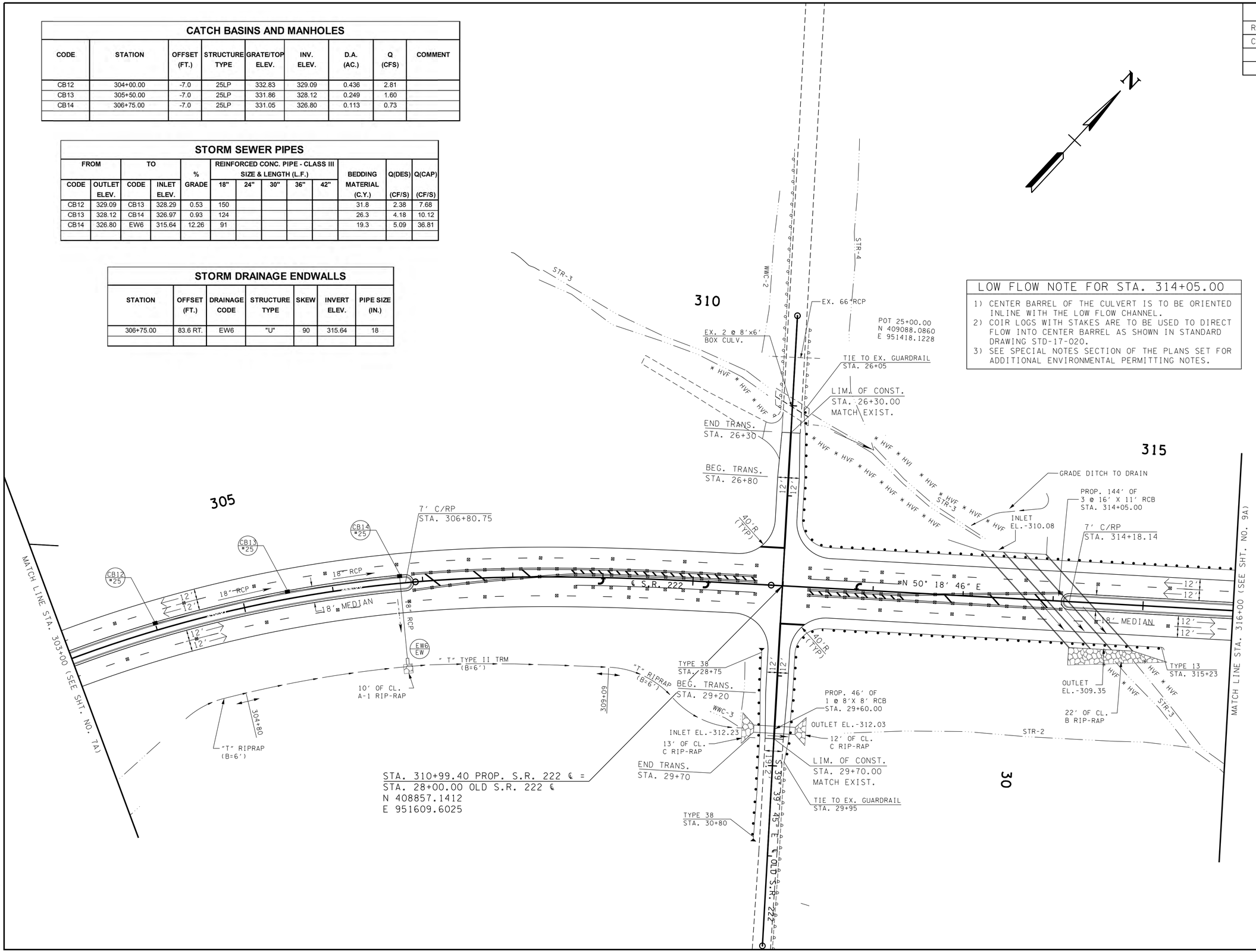
CODE	STATION	OFFSET (FT.)	STRUCTURE TYPE	GRATE/TOP ELEV.	INV. ELEV.	D.A. (AC.)	Q (CFS)	COMMENT
CB12	304+00.00	-7.0	25LP	332.83	329.09	0.436	2.81	
CB13	305+50.00	-7.0	25LP	331.86	328.12	0.249	1.60	
CB14	306+75.00	-7.0	25LP	331.05	326.80	0.113	0.73	

STORM SEWER PIPES

FROM		TO		%	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					BEDDING	Q(DES)	Q(CAP)
CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	18"	24"	30"	36"	42"	MATERIAL (C.Y.)	(CF/S)	(CF/S)
CB12	329.09	CB13	328.29	0.53	150					31.8	2.38	7.68
CB13	328.12	CB14	326.97	0.93	124					26.3	4.18	10.12
CB14	326.80	EW6	315.64	12.26	91					19.3	5.09	36.81

STORM DRAINAGE ENDWALLS

STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	SKEW	INVERT ELEV.	PIPE SIZE (IN.)
306+75.00	83.6 RT.	EW6	"U"	90	315.64	18



LOW FLOW NOTE FOR STA. 314+05.00

1) CENTER BARREL OF THE CULVERT IS TO BE ORIENTED INLINE WITH THE LOW FLOW CHANNEL.
2) COIR LOGS WITH STAKES ARE TO BE USED TO DIRECT FLOW INTO CENTER BARREL AS SHOWN IN STANDARD DRAWING STD-17-020.
3) SEE SPECIAL NOTES SECTION OF THE PLANS SET FOR ADDITIONAL ENVIRONMENTAL PERMITTING NOTES.

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 303+00 TO STA. 316+00

SCALE: 1"= 50'

8/12/2014 4:33:35 PM
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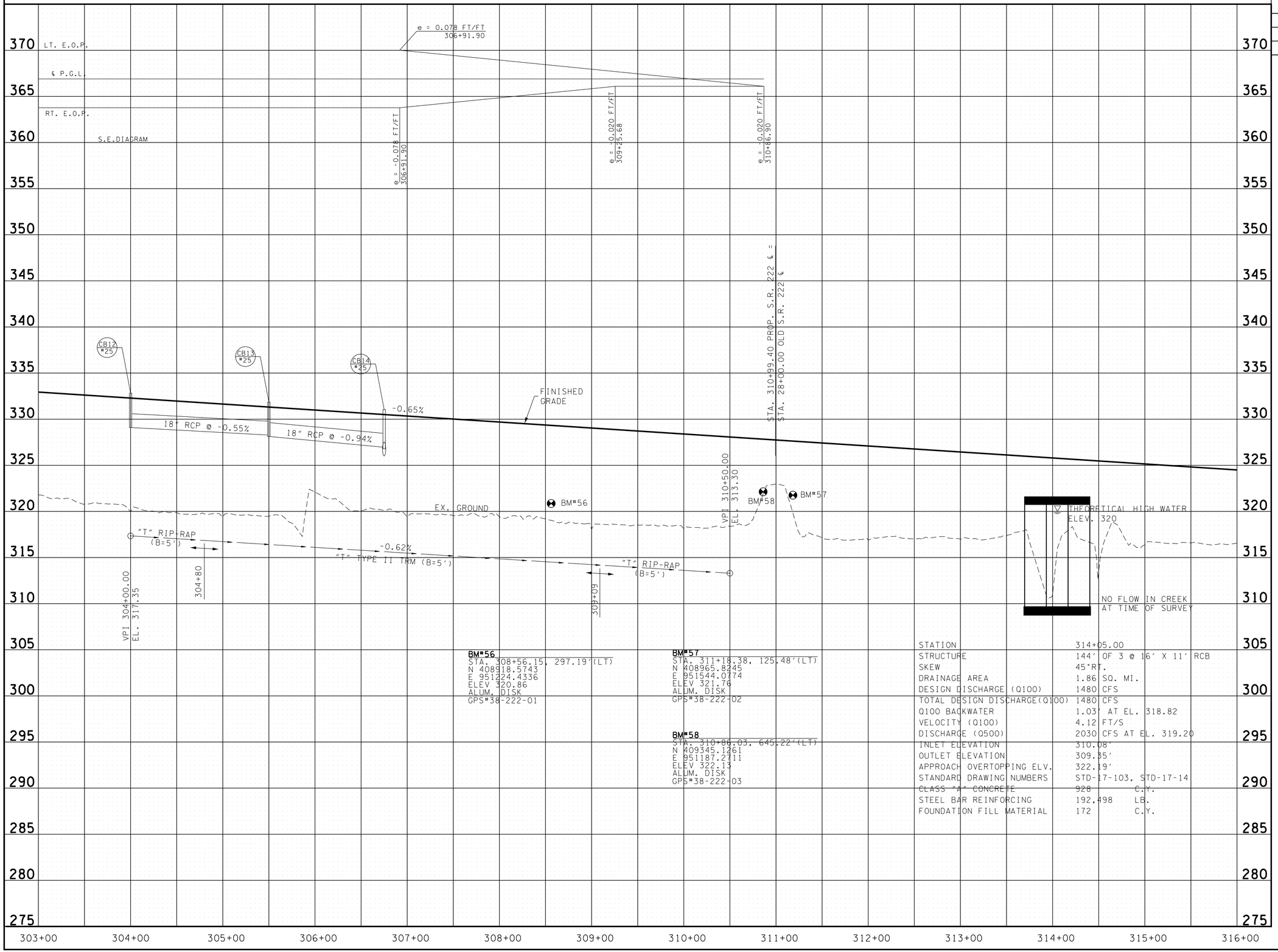
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	8B
CONST.	2014	38016-3206-04	8B



UNOFFICIAL SET

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 303+00 TO STA. 316+00

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

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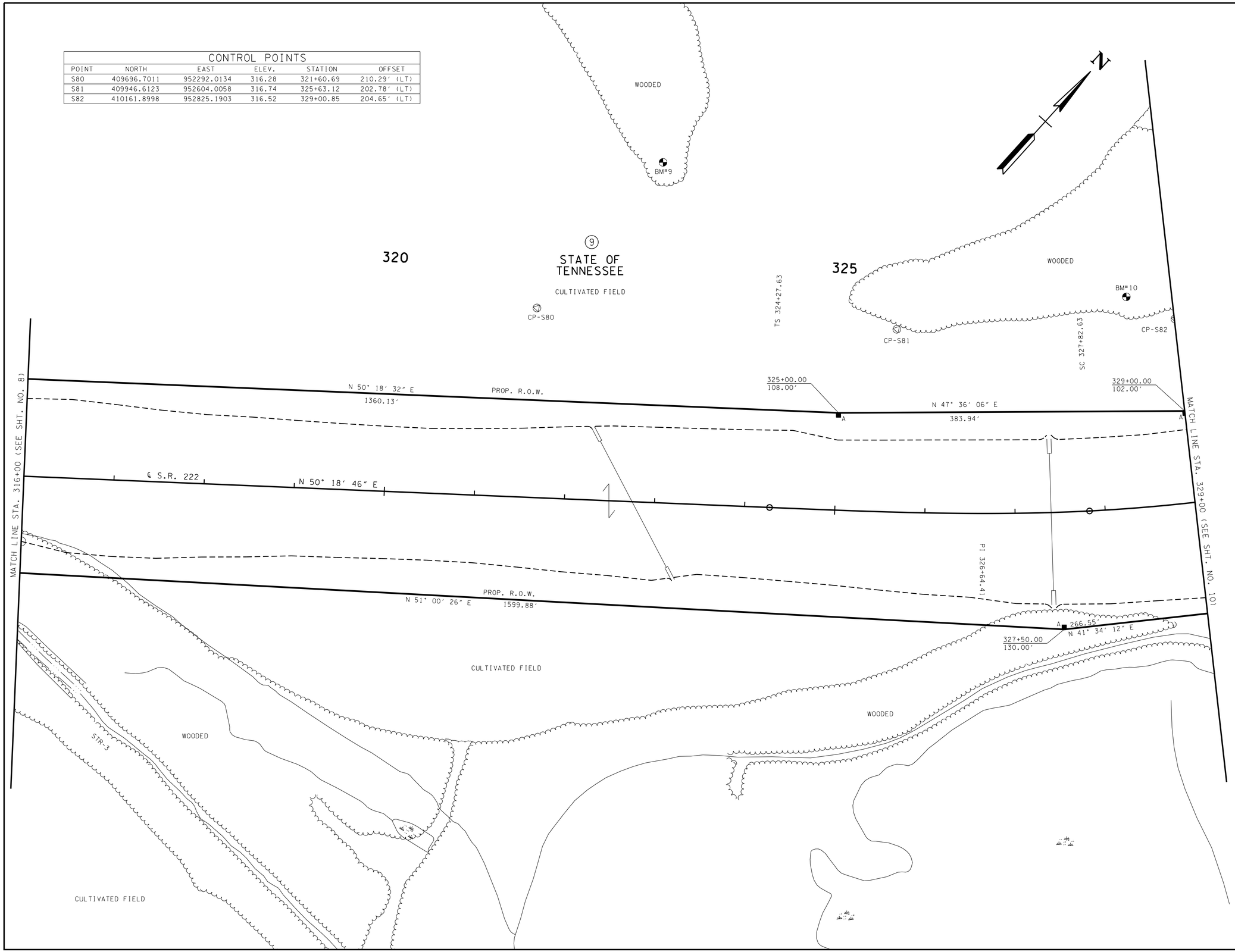
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	9
CONST.	2014	38016-3206-04	9

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S80	409696.7011	952292.0134	316.28	321+60.69	210.29' (LT)
S81	409946.6123	952604.0058	316.74	325+63.12	202.78' (LT)
S82	410161.8998	952825.1903	316.52	329+00.85	204.65' (LT)



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 316+00 TO STA. 329+00

SCALE: 1"= 50'

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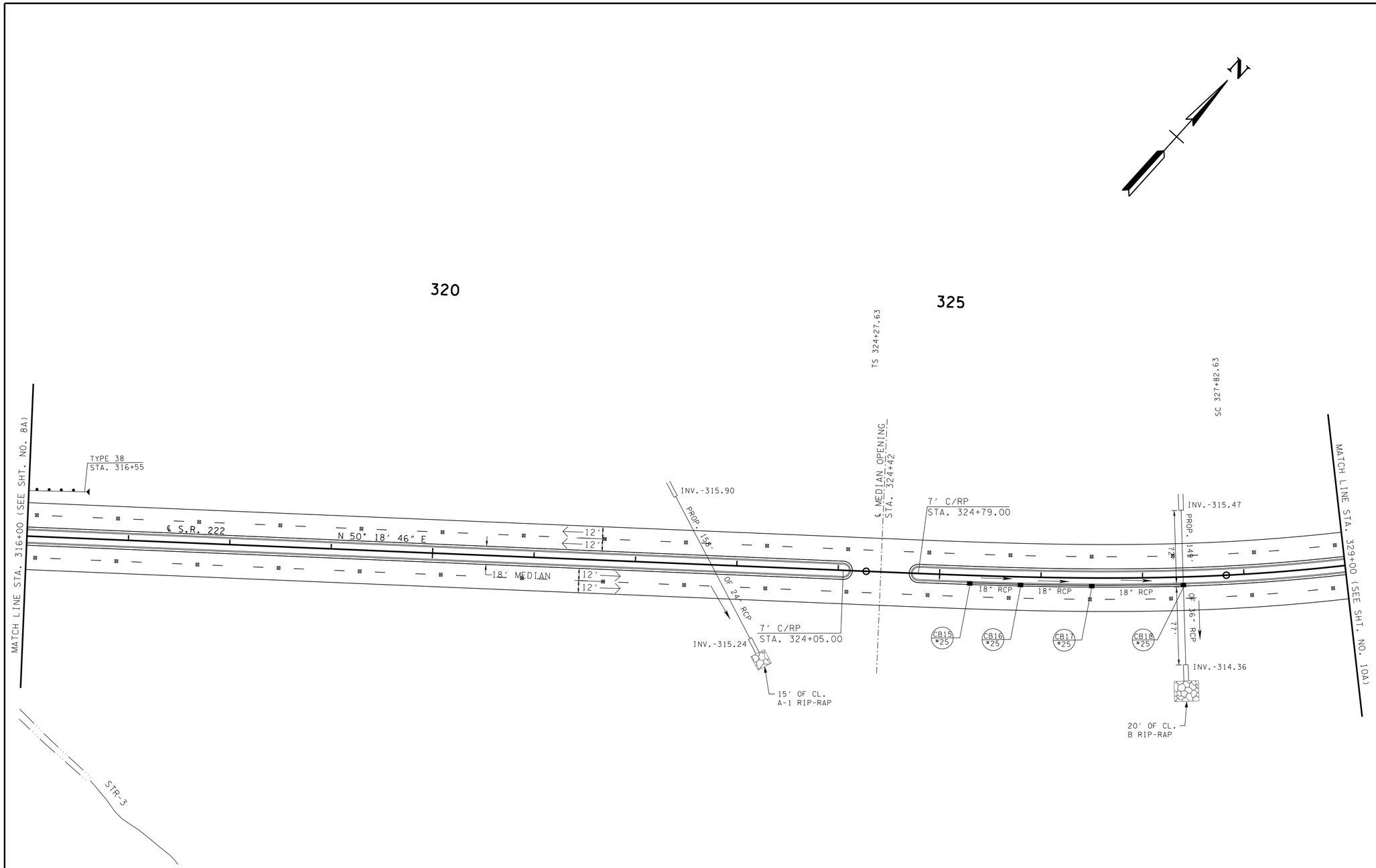
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	9A
CONST.	2014	38016-3206-04	9A



CATCH BASINS AND MANHOLES

CODE	STATION	OFFSET (FT.)	STRUCTURE TYPE	GRATE/TOP ELEV.	INV. ELEV.	D.A. (AC.)	Q (CFS)	COMMENT
CB15	325+30.00	7.0	25LP	324.87	321.14	0.030	0.19	
CB16	325+80.00	7.0	25LP	325.24	319.00	0.042	0.27	
CB17	326+50.00	7.0	25LP	325.75	317.88	0.080	0.51	
CB18	327+40.00	7.0	25SB	326.40	314.94	0.322	2.07	

STORM SEWER PIPES

FROM		TO		%	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					BEDDING	Q(DES)	Q(CAP)
CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	18"	24"	30"	36"	42"	MATERIAL (C.Y.)	(CF/S)	(CF/S)
CB15	321.14	CB16	319.17	4.10	48					10.2	0.17	21.29
CB16	319.00	CB17	318.05	1.40	68					14.4	0.50	12.42
CB17	317.88	CB18	316.49	1.58	88					18.7	1.23	13.21

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 316+00 TO STA. 329+00

SCALE: 1"= 50′

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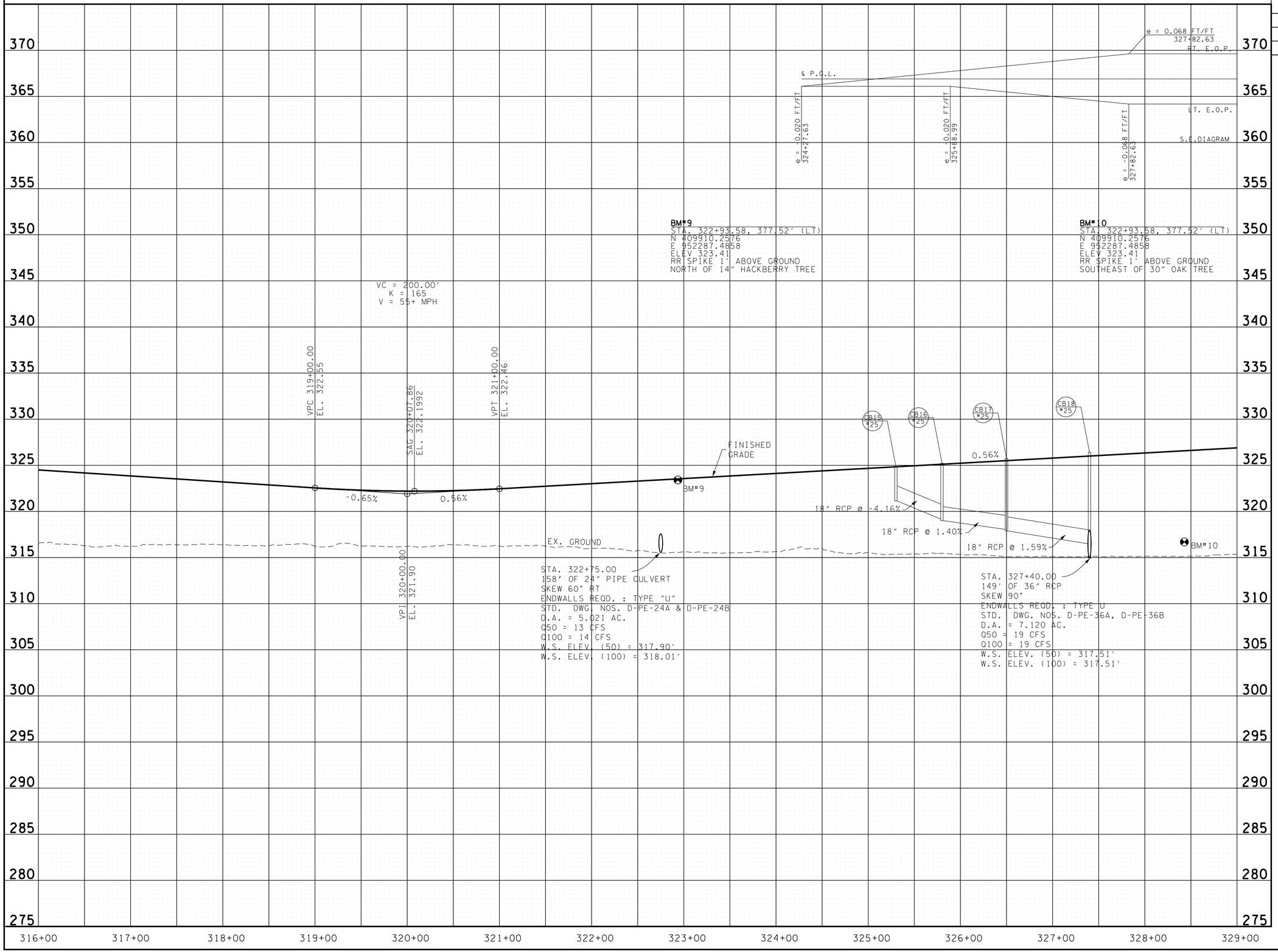
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	9B
CONST.	2014	38016-3206-04	9B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 316+00 TO STA.329+00

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

8/12/2014 4:33:52 PM
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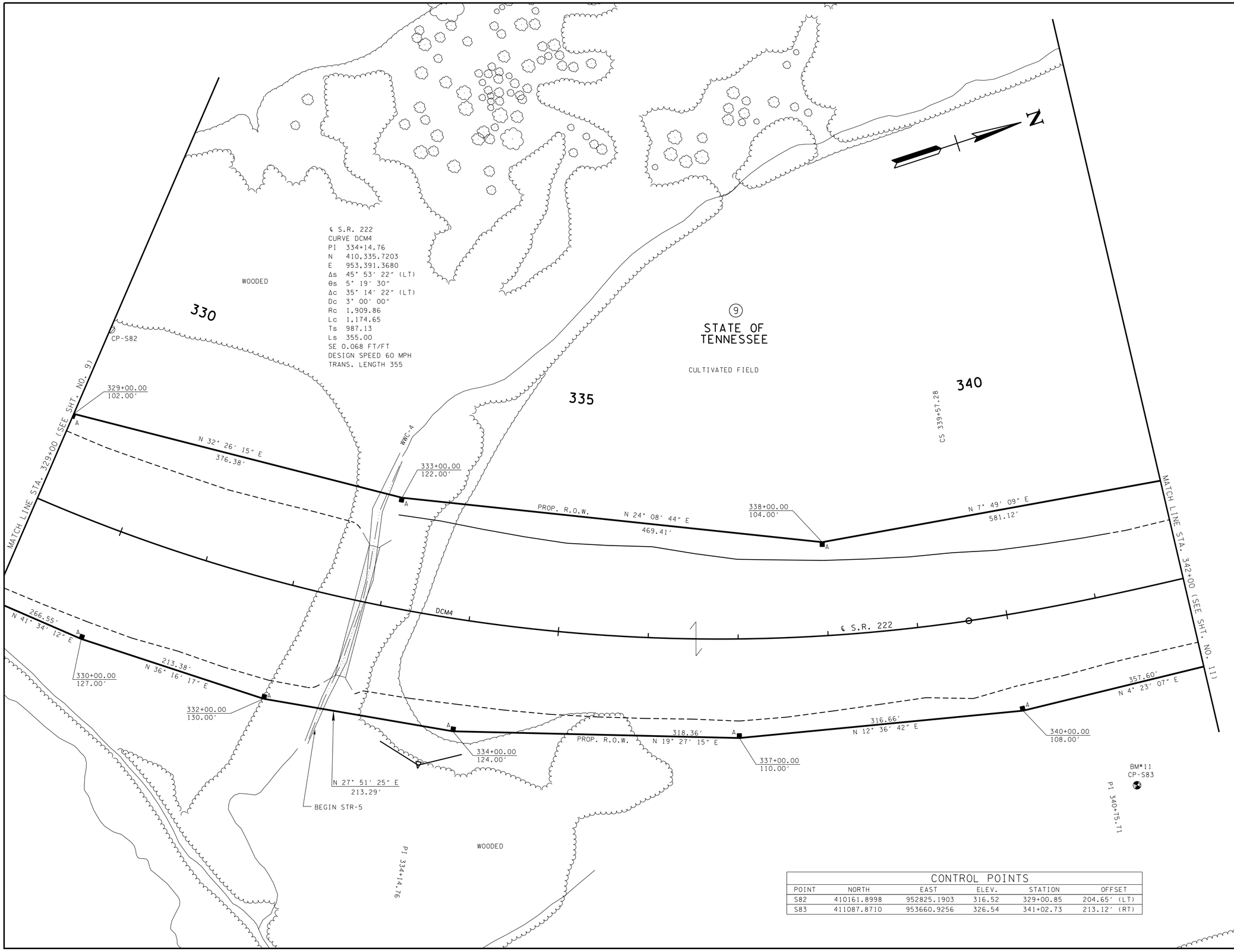
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	10
CONST.	2014	38016-3206-04	10



CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S82	410161.8998	952825.1903	316.52	329+00.85	204.65′ (LT)
S83	411087.8710	953660.9256	326.54	341+02.73	213.12′ (RT)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 329+00 TO STA. 342+00

SCALE: 1"= 50′

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	10A
CONST.	2014	38016-3206-04	10A

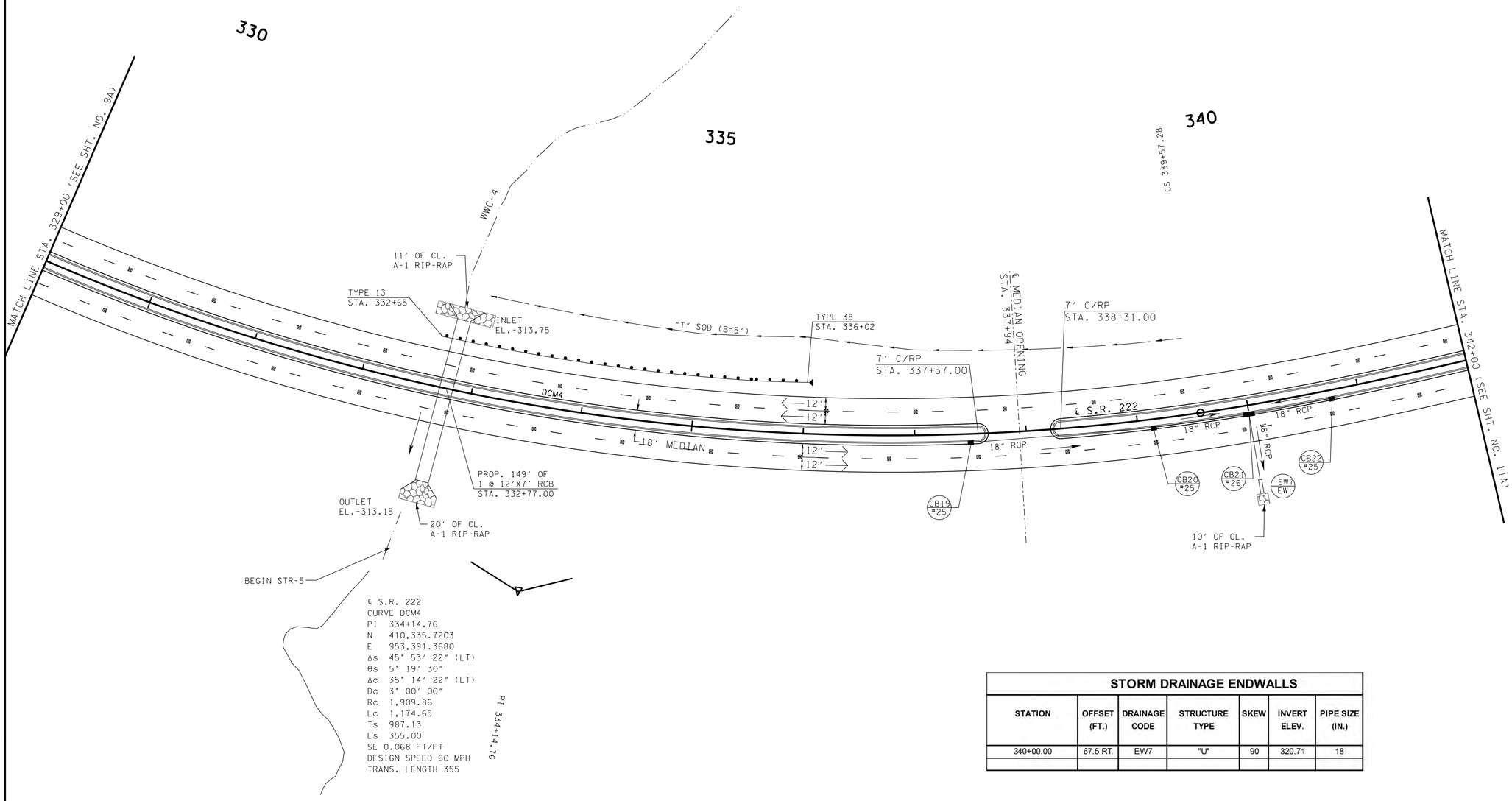
CATCH BASINS AND MANHOLES

CODE	STATION	OFFSET (FT.)	STRUCTURE TYPE	GRATE/TOP ELEV.	INV. ELEV.	D.A. (AC.)	Q (CFS)	COMMENT
CB19	337+50.00	7.0	25LP	326.54	322.80	0.308	1.98	
CB20	339+14.00	7.0	25LP	325.53	321.79	-	-	FLANKING INLET
CB21	340+00.00	7.0	26P	325.33	321.23	0.278	1.79	
CB22	340+75.00	7.0	25LP	325.53	321.79	-	-	FLANKING INLET

STORM SEWER PIPES

FROM		TO		%	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					BEDDING	Q(DES)	Q(CAP)
CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	18"	24"	30"	36"	42"	MATERIAL (C.Y.)	(CF/S)	(CF/S)
CB19	322.80	CB20	321.96	0.52	162					34.3	1.713	7.57
CB20	321.79	CB21	321.40	0.48	82					17.4	-	7.25
CB21	321.23	EW7	320.71	0.90	58					12.3	*4.06	9.95
CB22	321.79	CB21	321.40	0.56	70					14.8	-	7.84

* DENOTES Q_{50}



STORM DRAINAGE ENDWALLS

STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	SKEW	INVERT ELEV.	PIPE SIZE (IN.)
340+00.00	67.5 RT.	EW7	"U"	90	320.71	18

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 329+00 TO STA. 342+00

SCALE: 1"= 50'

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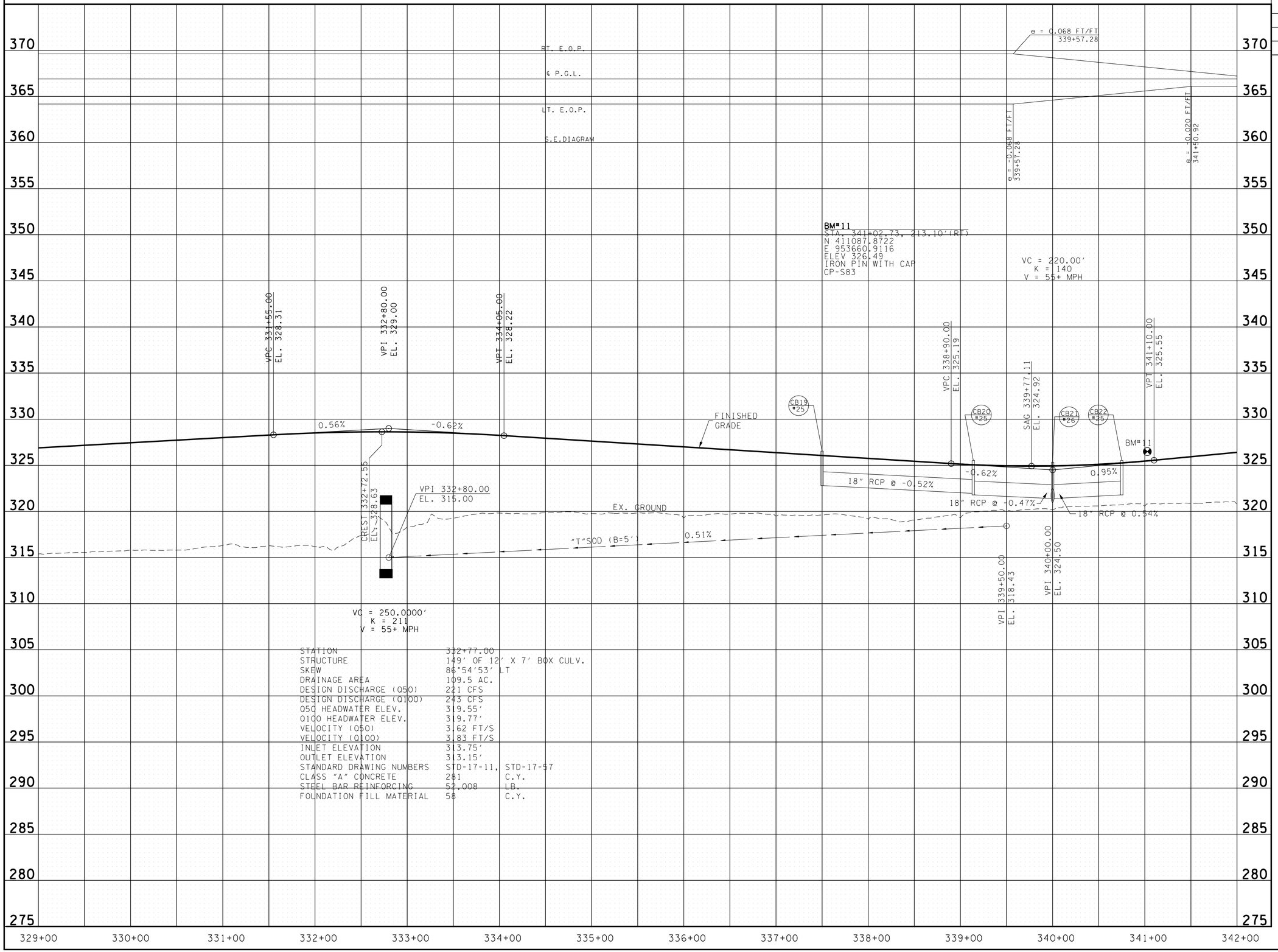
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	10B
CONST.	2014	38016-3206-04	10B



STATION	332+77.00	
STRUCTURE	149' OF 12' X 7' BOX CULV.	
SKEW	86°54'53' LT	
DRAINAGE AREA	109.5 AC.	
DESIGN DISCHARGE (Q50)	221 CFS	
DESIGN DISCHARGE (Q100)	243 CFS	
Q50 HEADWATER ELEV.	319.55'	
Q100 HEADWATER ELEV.	319.77'	
VELOCITY (Q50)	3.62 FT/S	
VELOCITY (Q100)	3.83 FT/S	
INLET ELEVATION	313.75'	
OUTLET ELEVATION	313.15'	
STANDARD DRAWING NUMBERS	STD-17-11,	STD-17-57
CLASS "A" CONCRETE	281	C.Y.
STEEL BAR REINFORCING	52,008	LB.
FOUNDATION FILL MATERIAL	58	C.Y.

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 329+00 TO STA. 342+00

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

8/12/2014 4:34:05 PM
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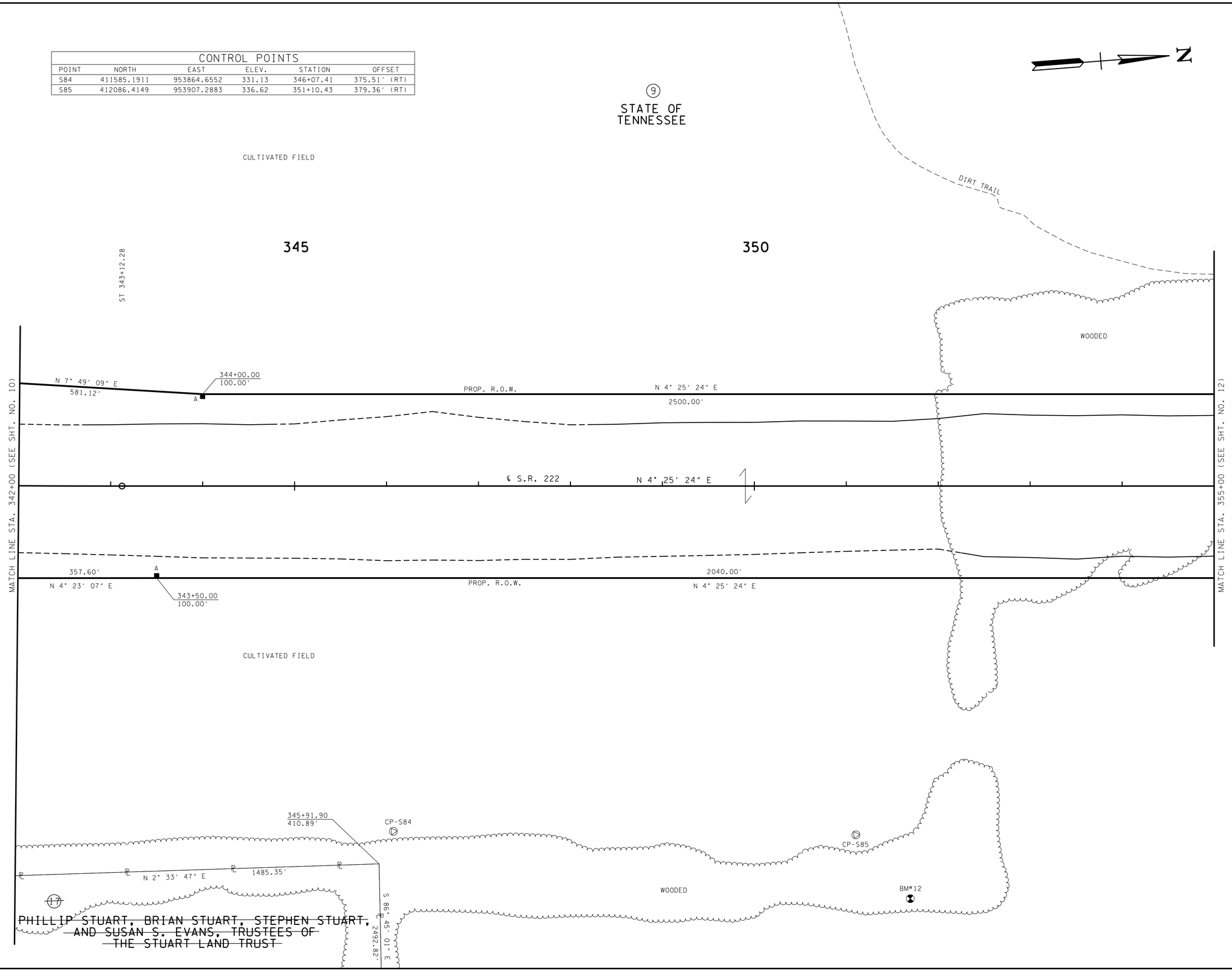
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	11
CONST.	2014	38016-3206-04	11

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S84	411585.1911	953864.6552	331.13	346+07.41	375.51′ (RT)
S85	412086.4149	953907.2883	336.62	351+10.43	379.36′ (RT)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 342+00 TO STA. 355+00

SCALE: 1"= 50′

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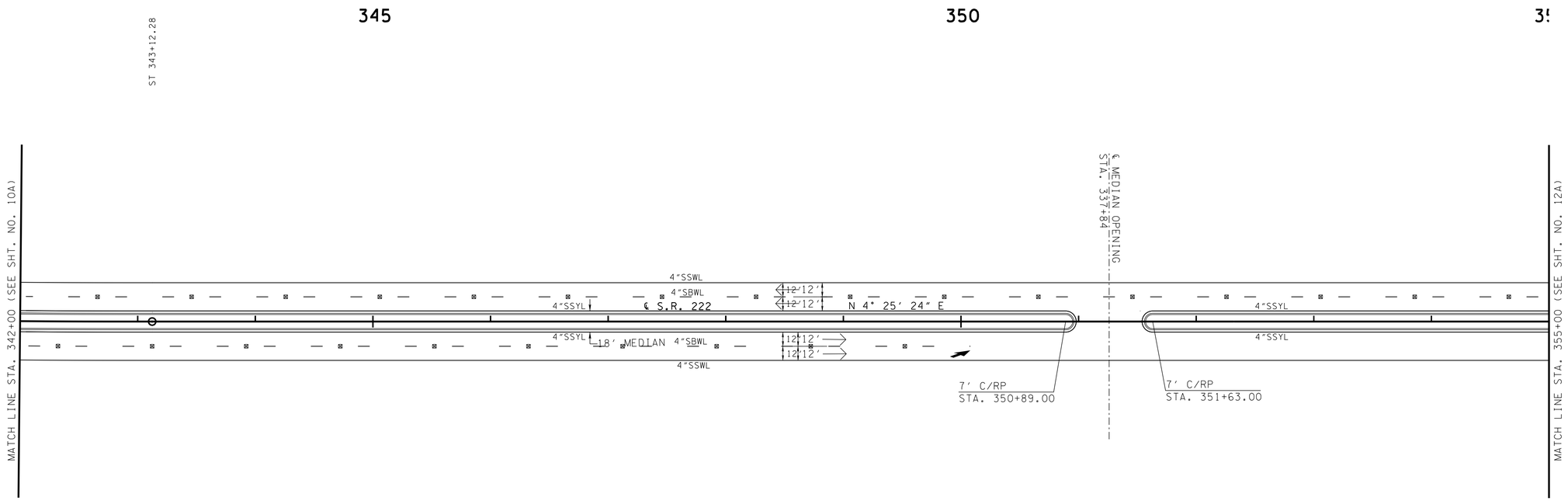
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	11A
CONST.	2014	38016-3206-04	11A



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 342+00 TO STA. 355+00

SCALE: 1"= 50'

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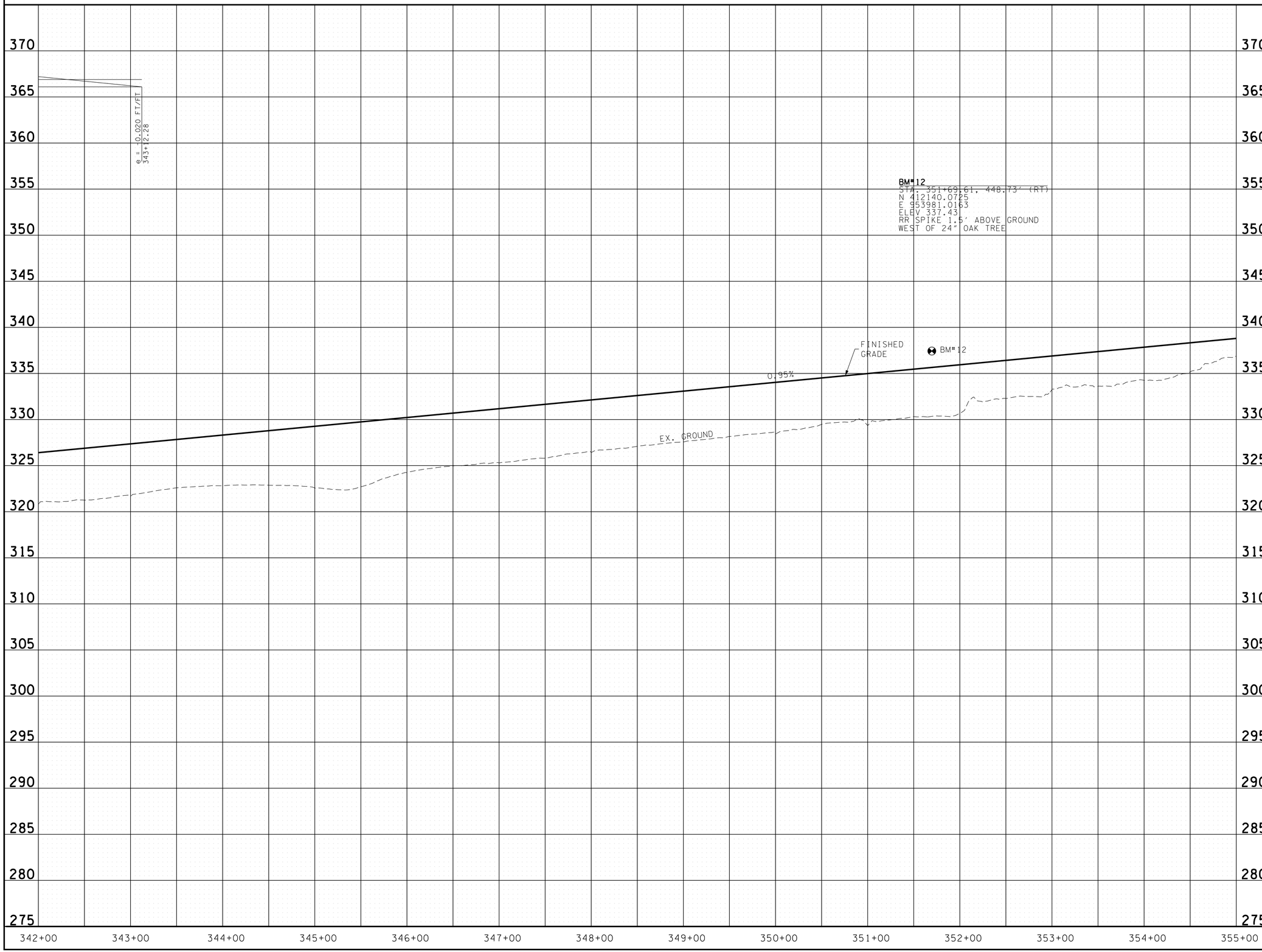
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	11B
CONST.	2014	38016-3206-04	11B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.342+00 TO STA.355+00

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

8/12/2014 4:34:11 PM
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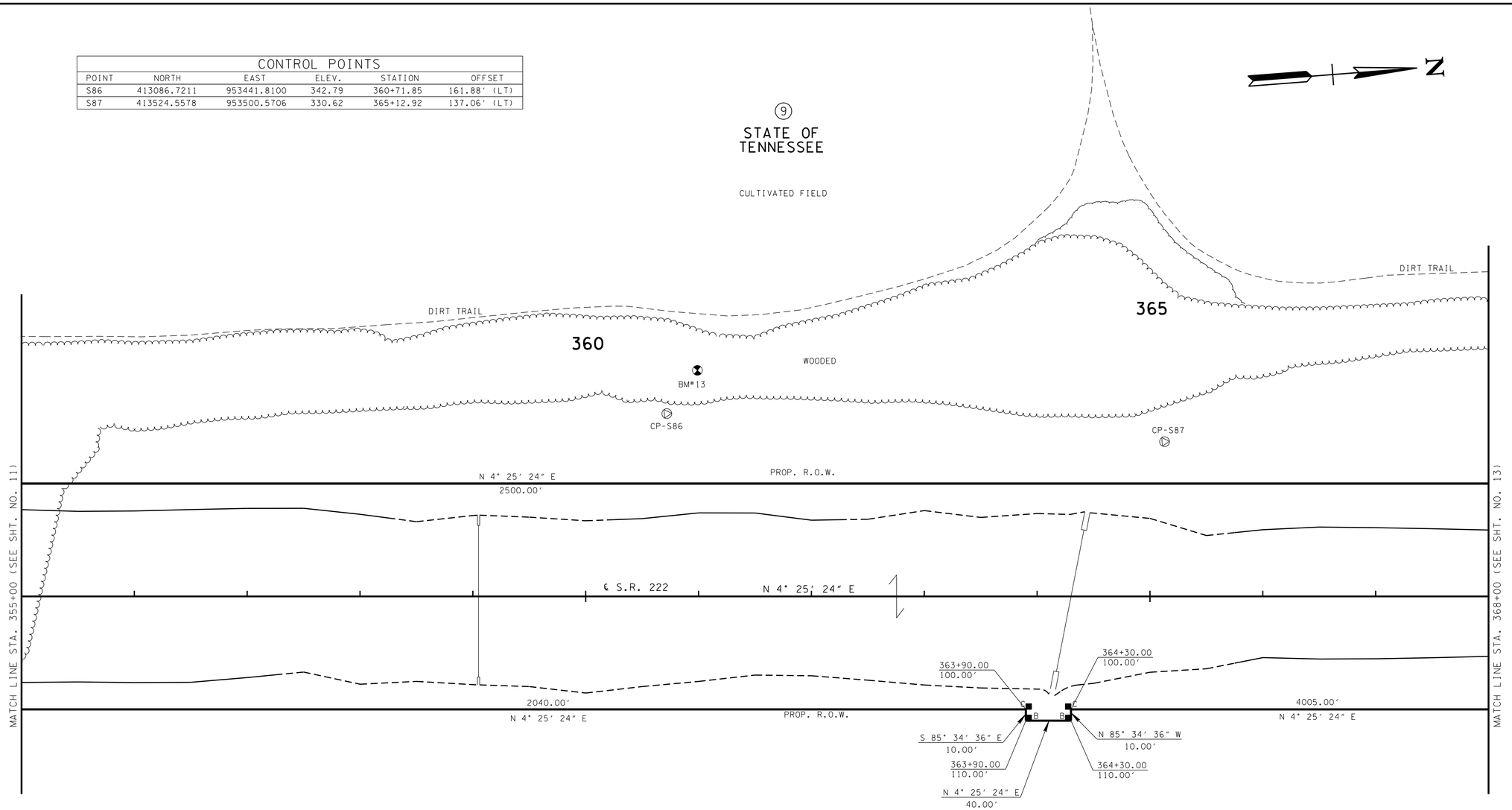
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	12
CONST.	2014	38016-3206-04	12

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S86	413086.7211	953441.8100	342.79	360+71.85	161.88' (LT)
S87	413524.5578	953500.5706	330.62	365+12.92	137.06' (LT)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 355+00 TO STA. 368+00

SCALE: 1"= 50'

8/12/2014 4:34:16 PM
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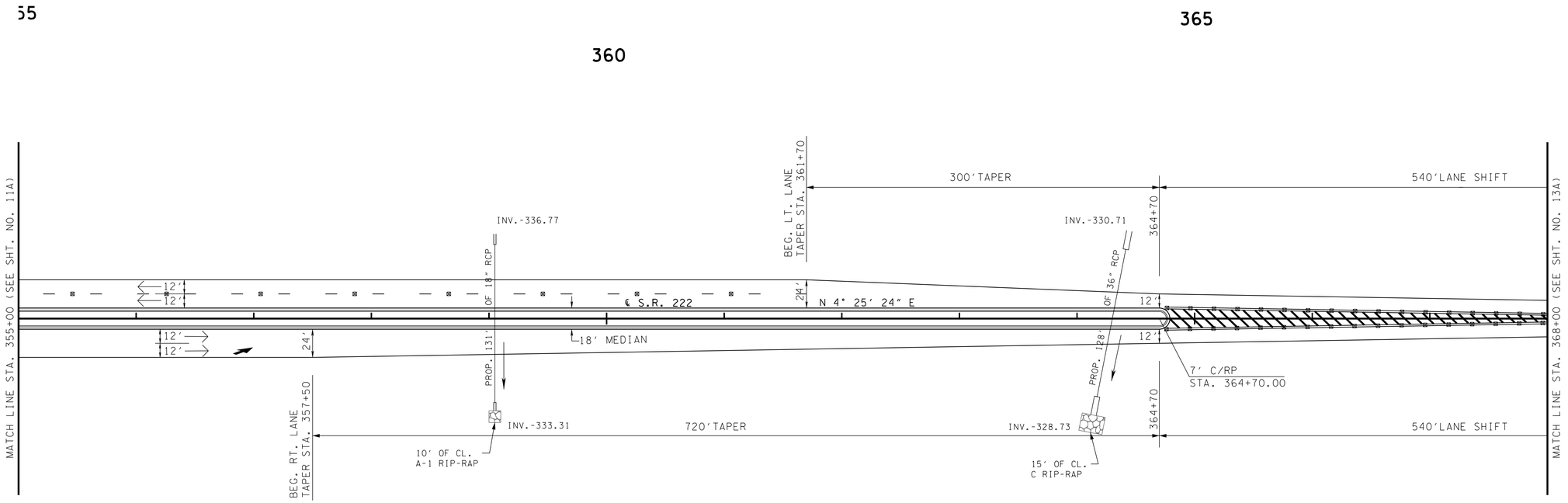
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	12A
CONST.	2014	38016-3206-04	12A



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 355+00 TO STA. 368+00

SCALE: 1"= 50'

8/12/2014 4:34:17 PM
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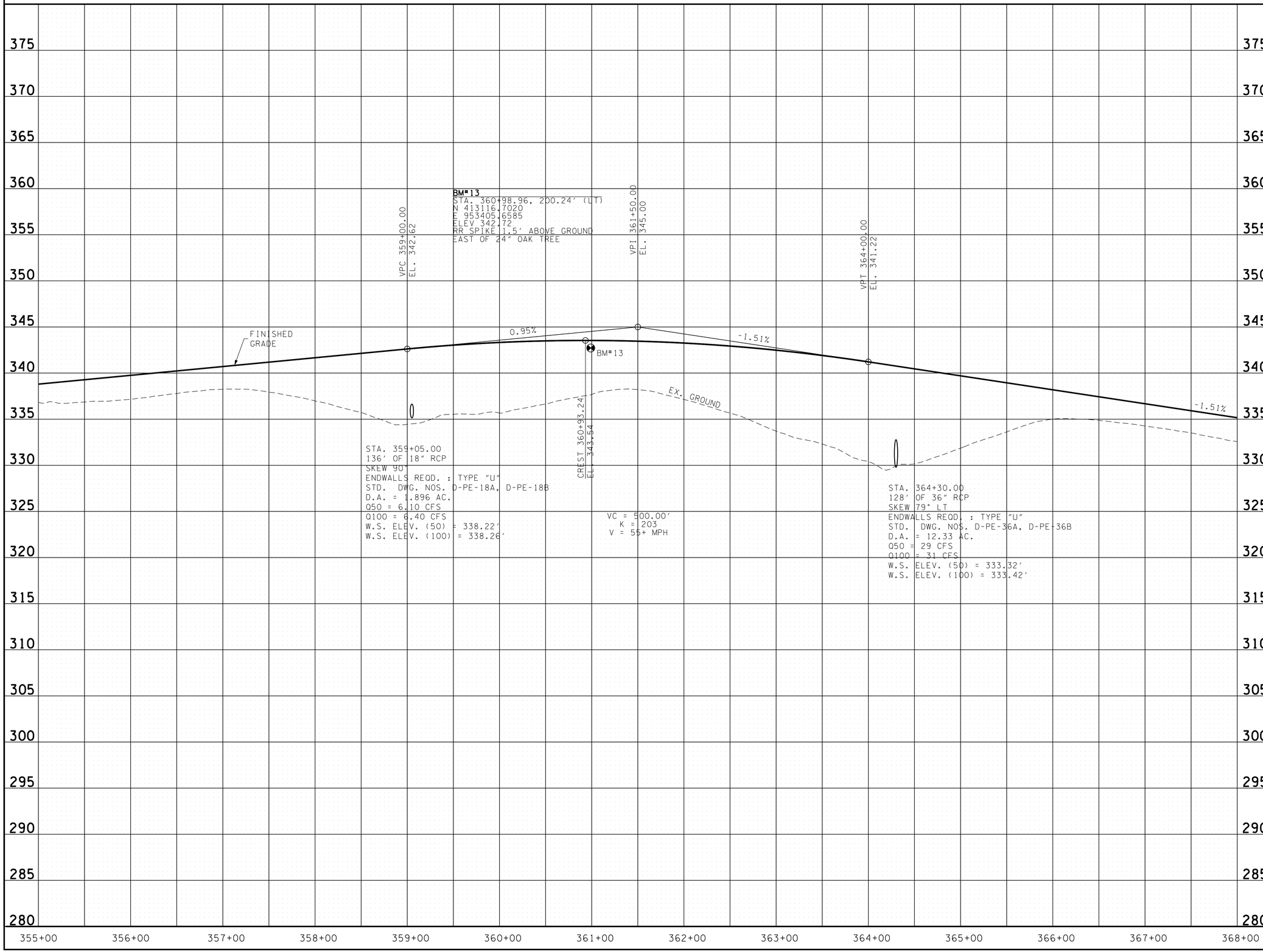
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	12B
CONST.	2014	38016-3206-04	12B



UNOFFICIAL SET

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 355+00 TO STA.368+00

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

8/12/2014 4:34:18 PM
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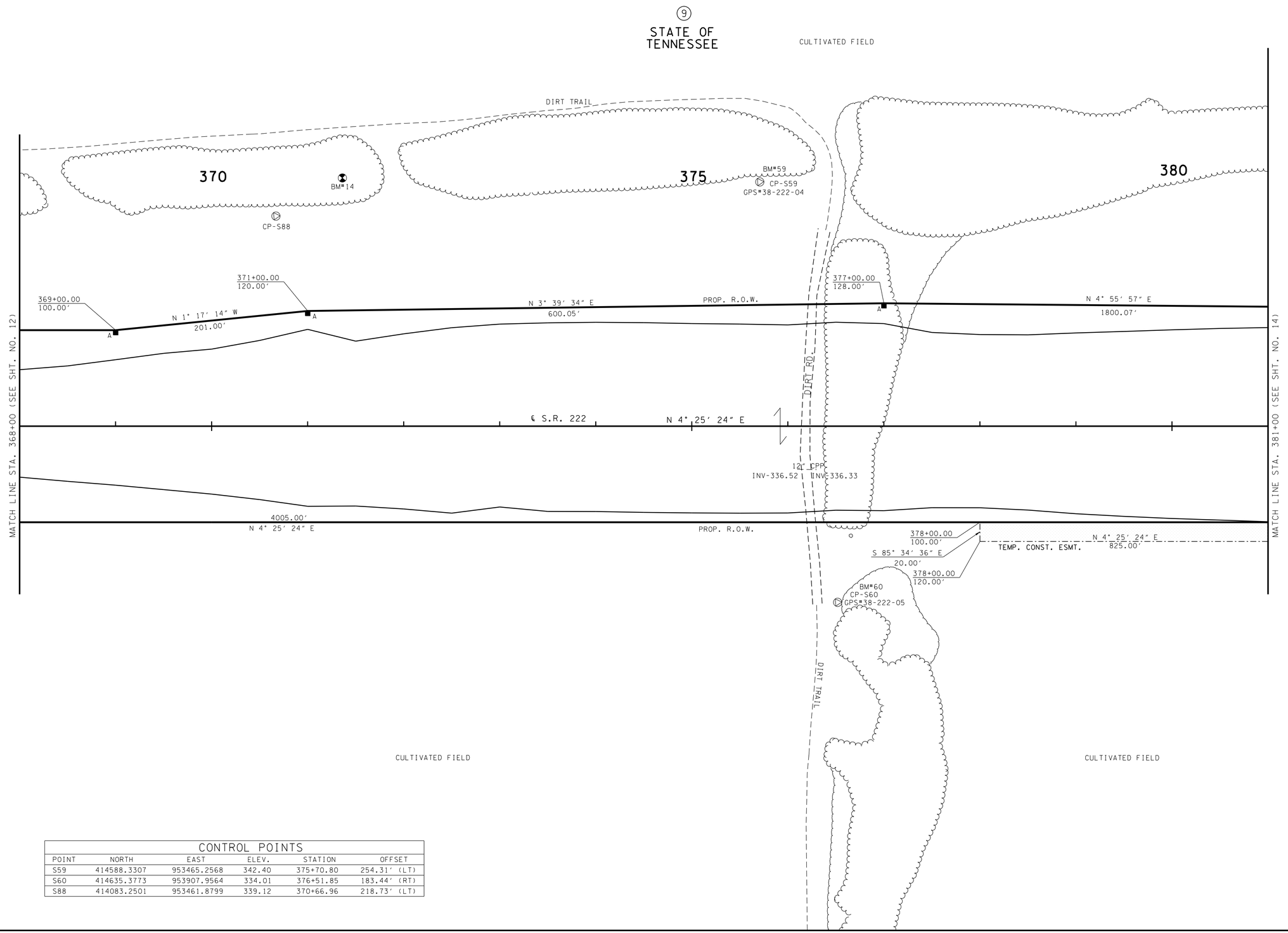
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	13
CONST.	2014	38016-3206-04	13



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S59	414588.3307	953465.2568	342.40	375+70.80	254.31' (LT)
S60	414635.3773	953907.9564	334.01	376+51.85	183.44' (RT)
S88	414083.2501	953461.8799	339.12	370+66.96	218.73' (LT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 368+00 TO STA. 381+00

SCALE: 1"= 50'

8/12/2014 4:34:22 PM
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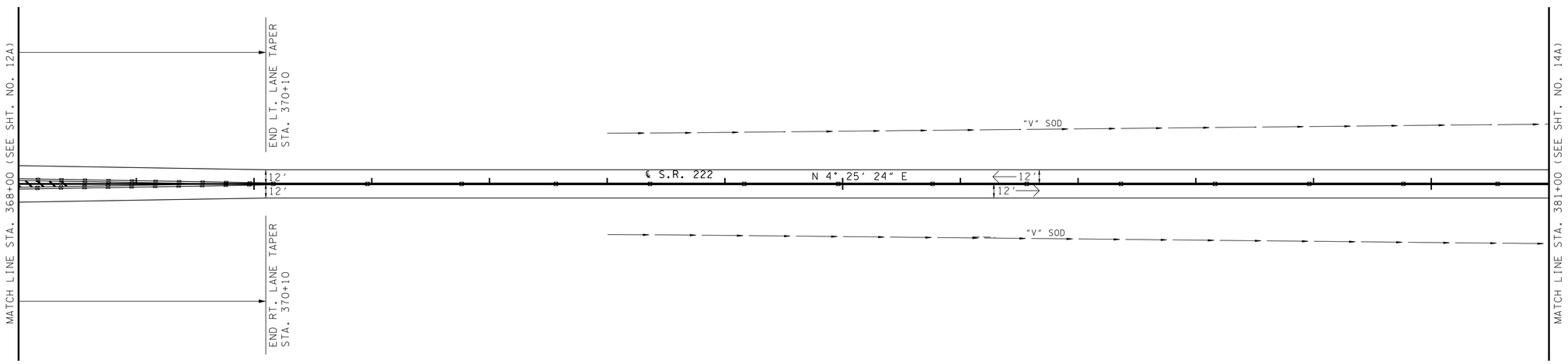
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	13A
CONST.	2014	38016-3206-04	13A



UNOFFICIAL SET

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SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 368+00 TO STA. 381+00

SCALE: 1"= 50'

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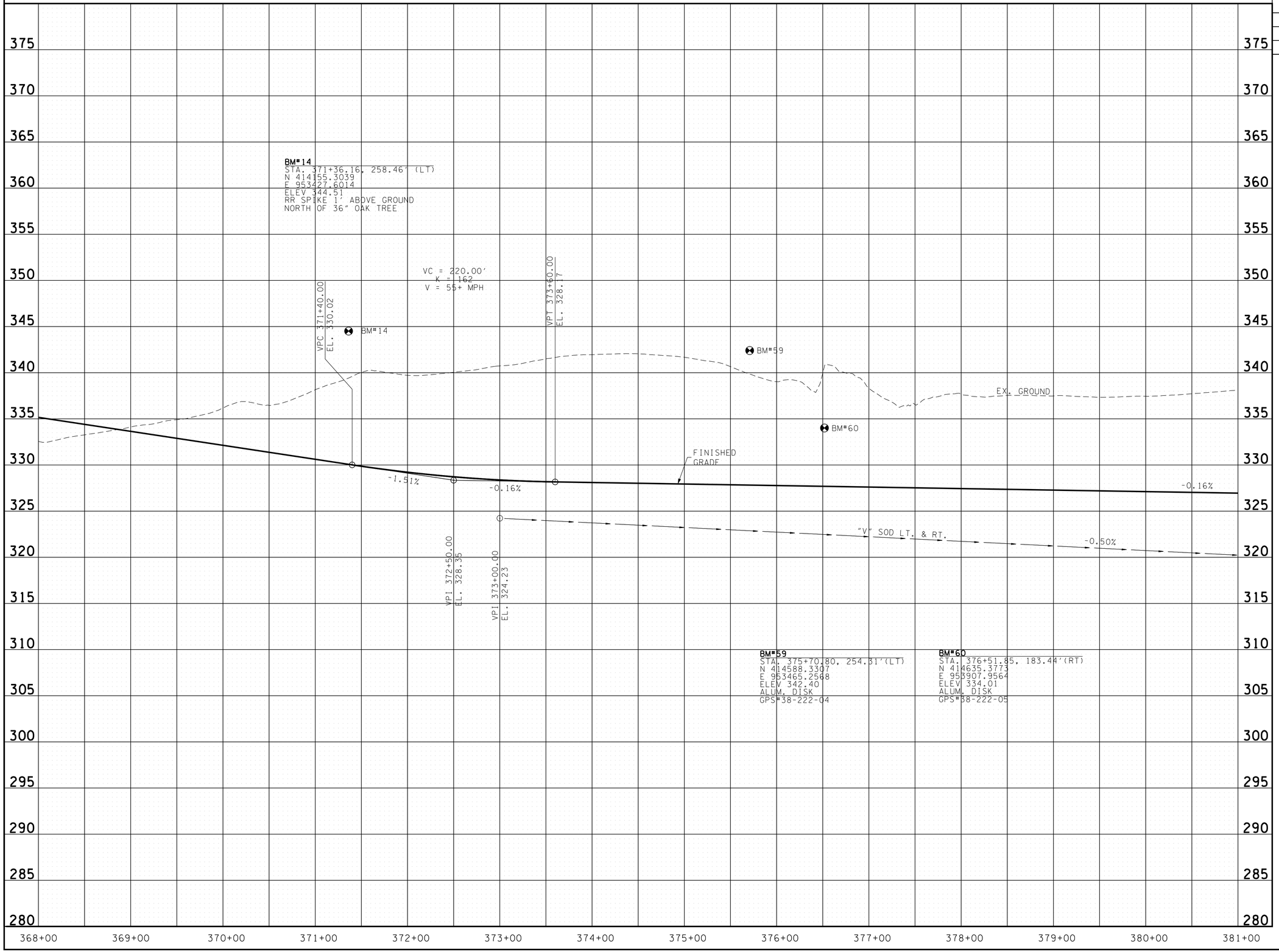
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	13B
CONST.	2014	38016-3206-04	13B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

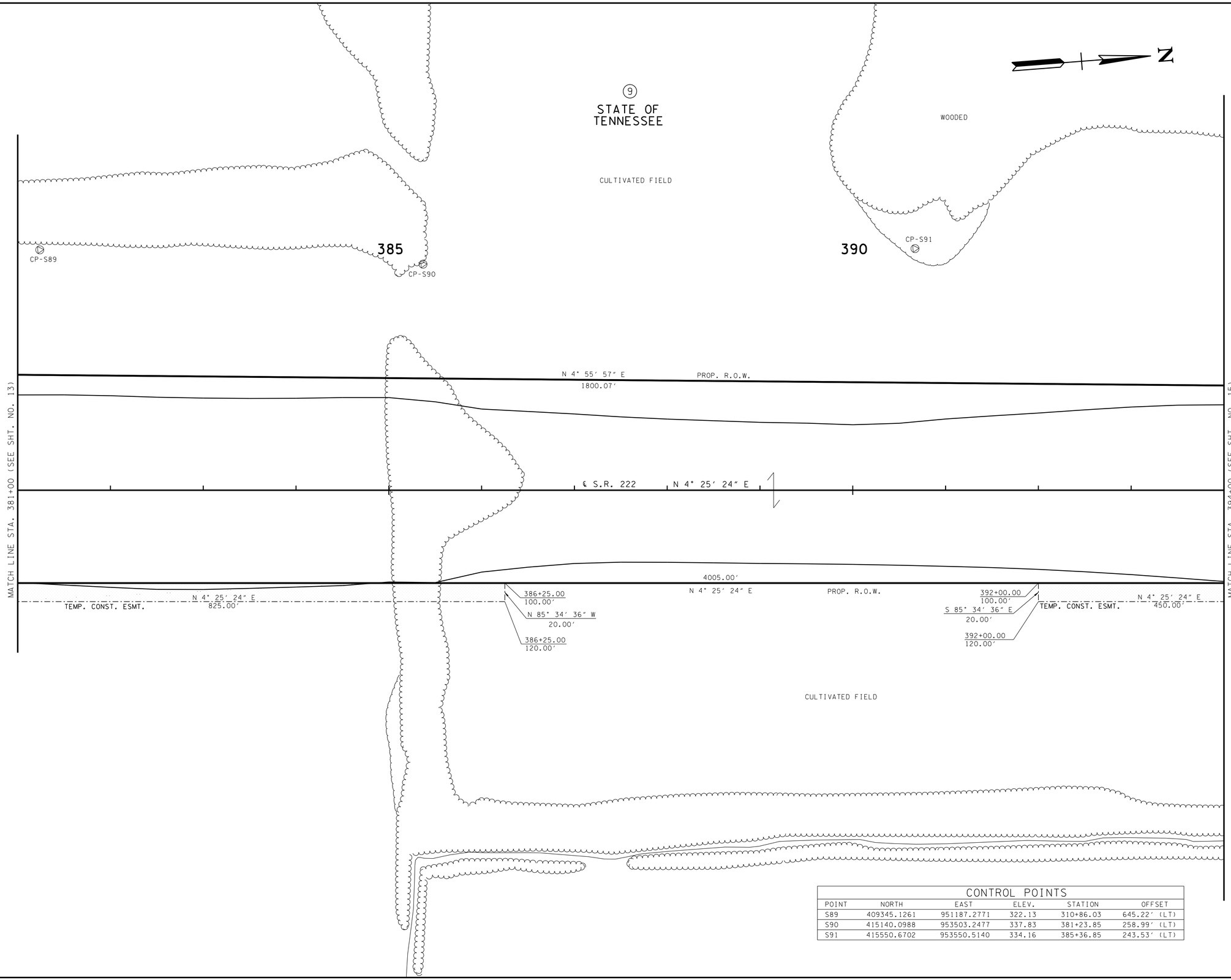
PROFILE

STA.368+00 TO STA. 381+00

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

8/12/2014 4:34:24 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\013B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	14
CONST.	2014	38016-3206-04	14



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S89	409345.1261	951187.2771	322.13	310+86.03	645.22′ (LT)
S90	415140.0988	953503.2477	337.83	381+23.85	258.99′ (LT)
S91	415550.6702	953550.5140	334.16	385+36.85	243.53′ (LT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

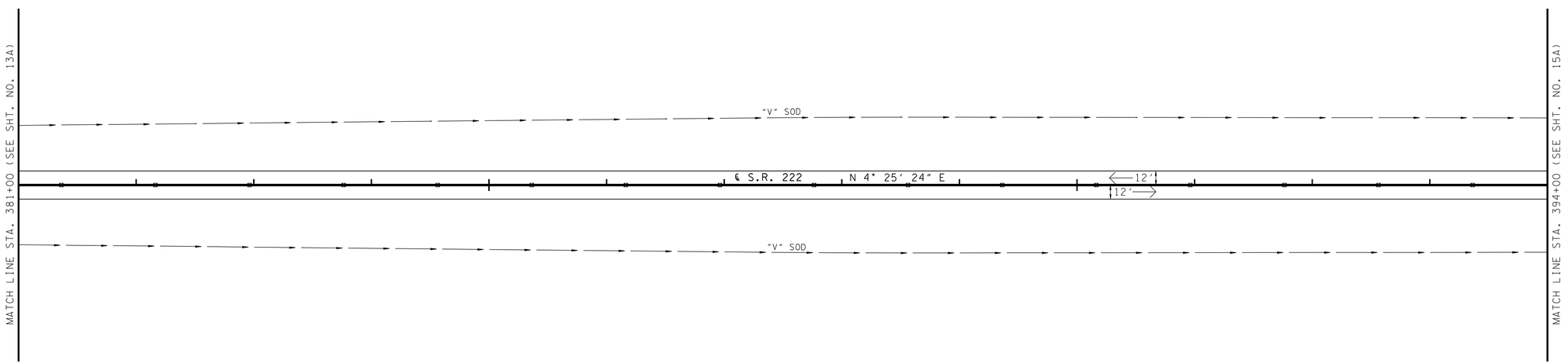
PRESENT LAYOUT

STA. 381+00 TO STA. 394+00

SCALE: 1"= 50′

8/12/2014 4:34:29 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\014.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	14A
CONST.	2014	38016-3206-04	14A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

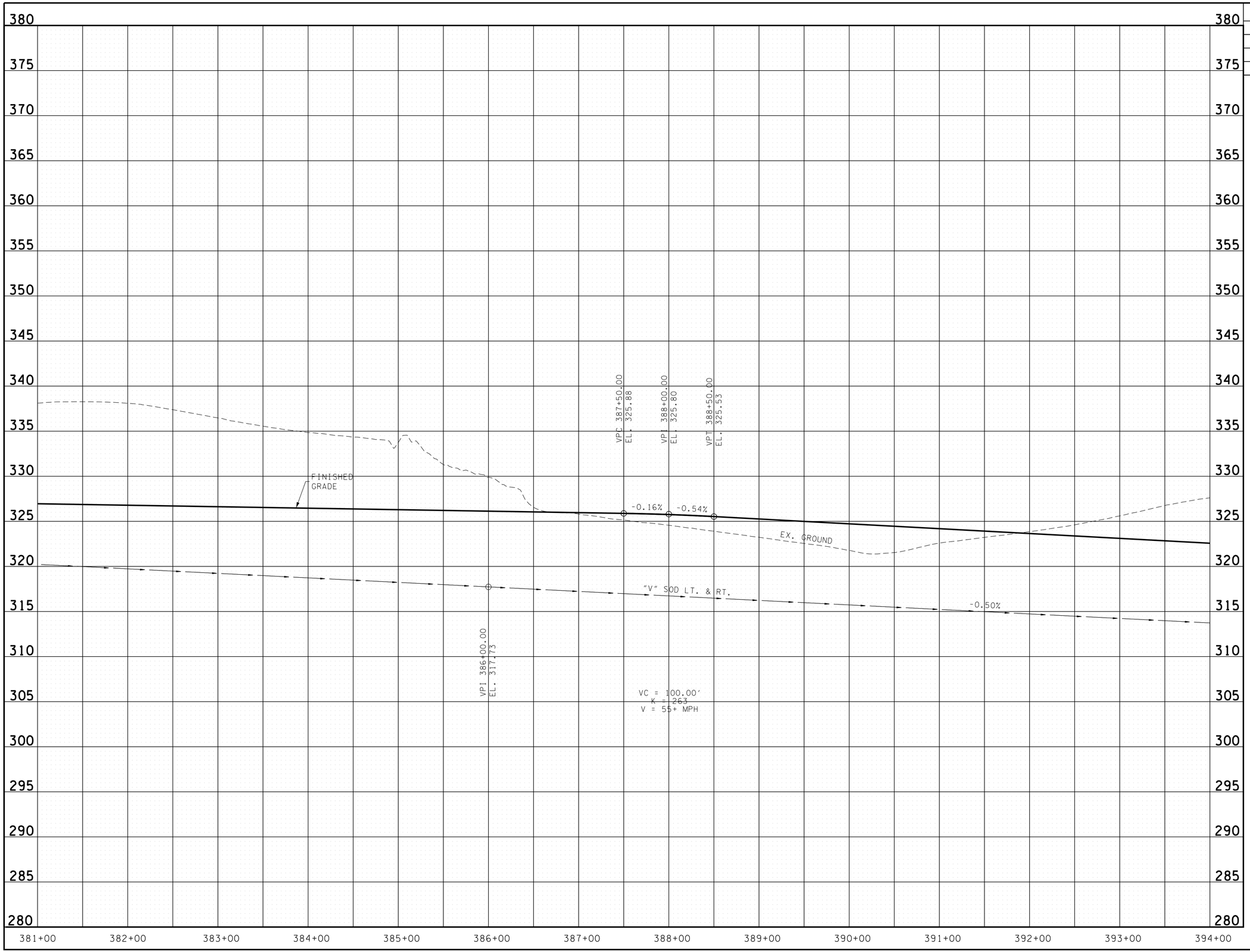
PROPOSED LAYOUT

STA. 381+00 TO STA. 394+00

SCALE: 1"= 50'

8/12/2014 4:34:30 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\014A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	14B
CONST.	2014	38016-3206-04	14B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 381+00 TO STA. 394+00

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

8/12/2014 4:34:31PM
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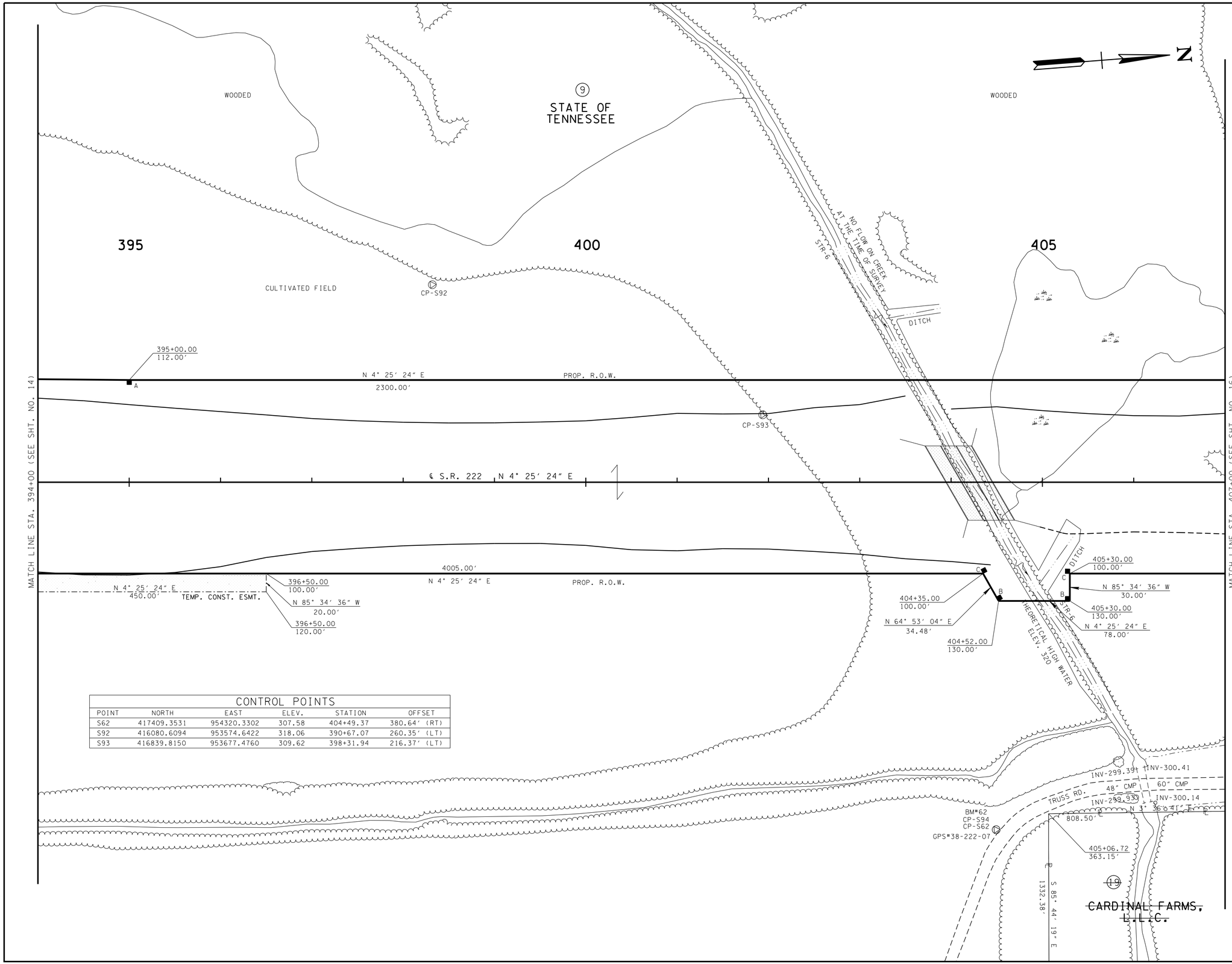
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	15
CONST.	2014	38016-3206-04	15

REV. 03-17-14: REVISED R.O.W. LOCATION AT STA. 405+30(±) RT.



CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S62	417409.3531	954320.3302	307.58	404+49.37	380.64' (RT)
S92	416080.6094	953574.6422	318.06	390+67.07	260.35' (LT)
S93	416839.8150	953677.4760	309.62	398+31.94	216.37' (LT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 394+00 TO STA. 407+00

SCALE: 1"= 50'

8/12/2014 4:34:36 PM
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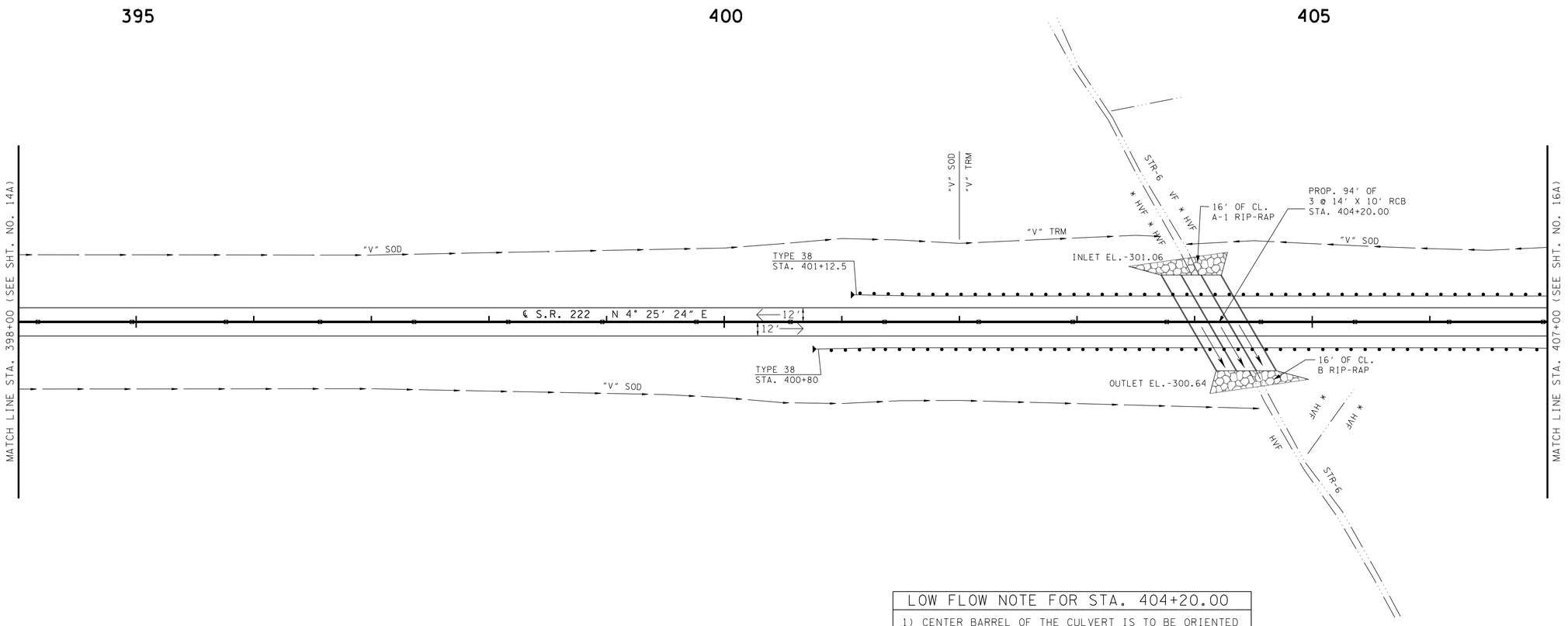
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	15A
CONST.	2014	38016-3206-04	15A



LOW FLOW NOTE FOR STA. 404+20.00

1) CENTER BARREL OF THE CULVERT IS TO BE ORIENTED INLINE WITH THE LOW FLOW CHANNEL.
2) COIR LOGS WITH STAKES ARE TO BE USED TO DIRECT FLOW INTO CENTER BARREL AS SHOWN IN STANDARD DRAWING STD-17-020.
3) SEE SPECIAL NOTES SECTION OF THE PLANS SET FOR ADDITIONAL ENVIRONMENTAL PERMITTING NOTES.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 398+00 TO STA. 407+00

SCALE: 1"= 50'

8/12/2014 4:34:37 PM
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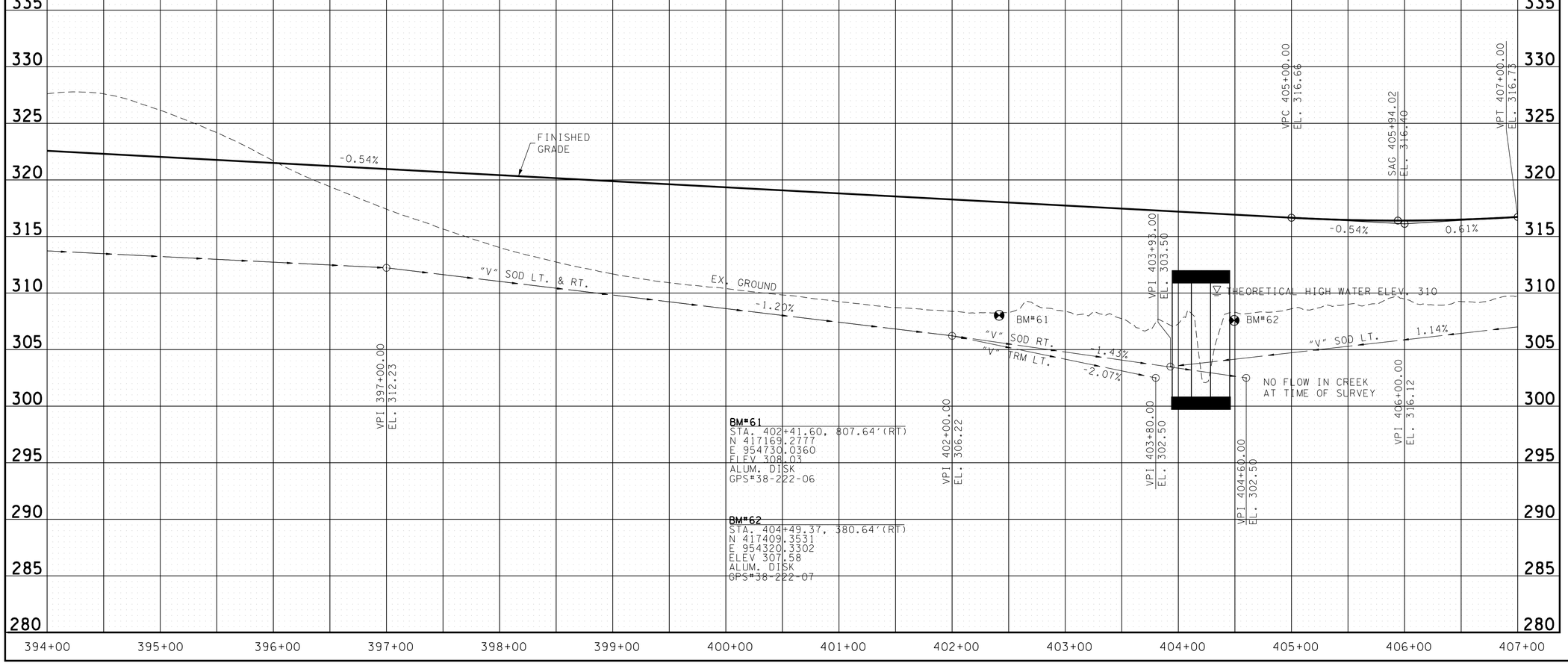
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	15B
CONST.	2014	38016-3206-04	15B

STATION	404+20.00
STRUCTURE	94' OF 3 @ 14' X 10' RCB
SKEW	60°LT.
DRAINAGE AREA	0.98 SQ. MI.
DESIGN DISCHARGE (Q100)	1070 CFS
Q100 BACKWATER	1.04' AT EL. 311.15
VELOCITY (Q100)	3.00 FT/S
DISCHARGE (Q500)	1300 CFS AT EL. 311.72
INLET ELEVATION	301.06'
OUTLET ELEVATION	300.64'
APPROACH OVERTOPPING ELV.	316.40'
STANDARD DRAWING NUMBERS	STD-17-13, STD-17-100
CLASS "A" CONCRETE	584 C.Y.
STEEL BAR REINFORCING	103,628 LB.
FOUNDATION FILL MATERIAL	100 C.Y.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 394+00 TO STA. 407+00

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

8/12/2014 4:34:38 PM
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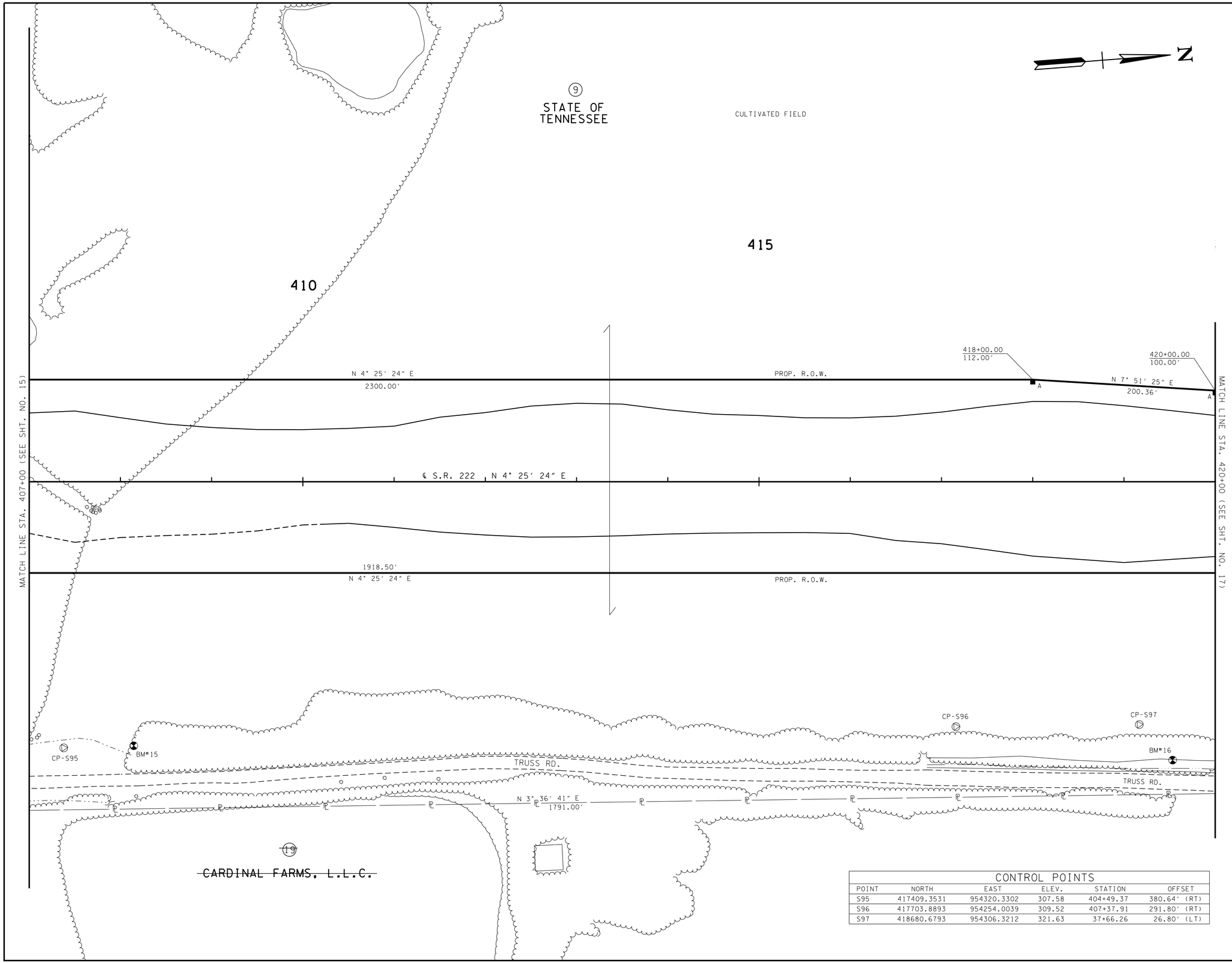
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	16
CONST.	2014	38016-3206-04	16

REV. 03-17-14: REVISED R.O.W. LOCATION ON LT. AND RT. OF TRUSS RD.
REV. 08-12-14: REMOVED PROP. TRUSS RD. ALIGN. AND REVISED R.O.W. BETWEEN 418+20 TO 419+65 RT.



CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S95	417409.3531	954320.3302	307.58	404+49.37	380.64' (RT)
S96	417703.8893	954254.0039	309.52	407+37.91	291.80' (RT)
S97	418680.6793	954306.3212	321.63	37+66.26	26.80' (LT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 407+00 TO STA. 420+00

SCALE: 1"= 50'

8/12/2014 4:34:42 PM
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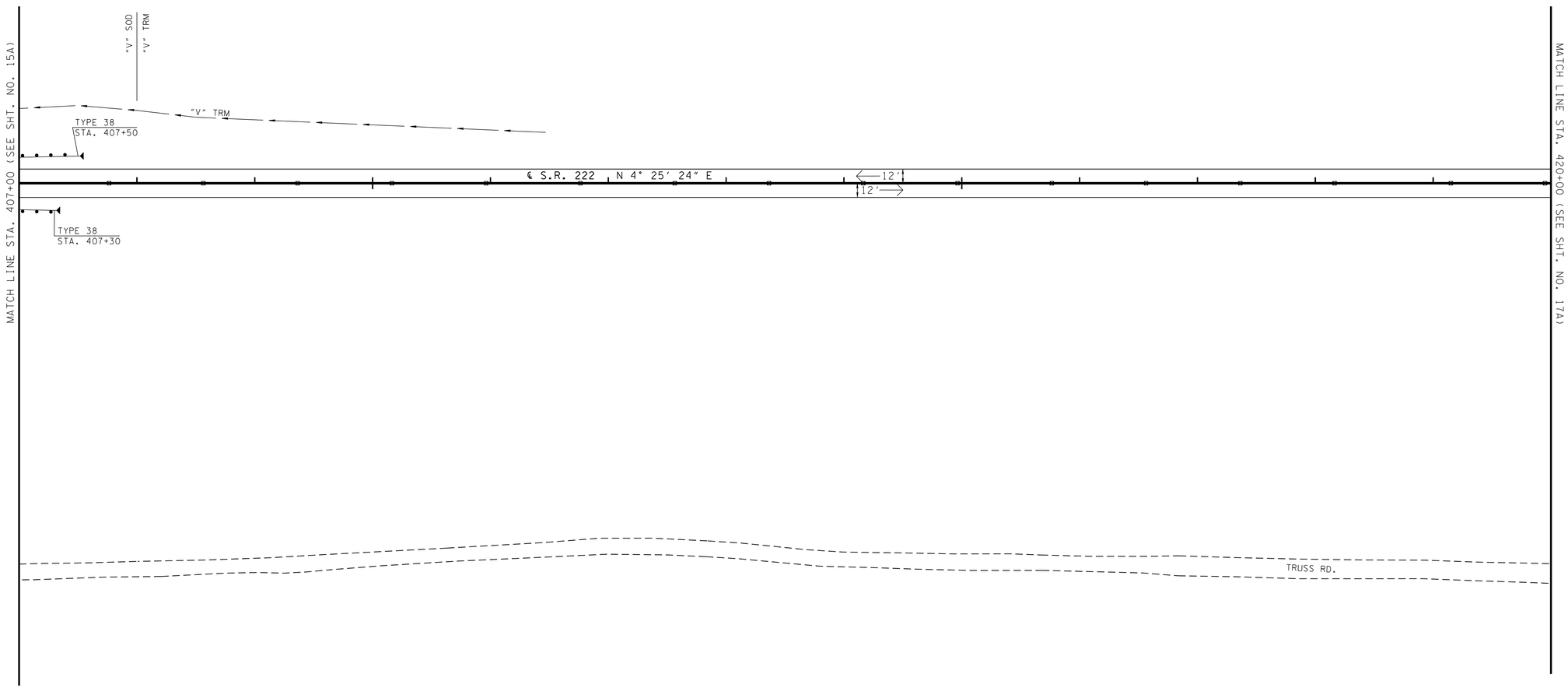
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	16A
CONST.	2014	38016-3206-04	16A

REV. 08-12-14: REMOVED PROP. TRUSS RD.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 407+00 TO STA. 420+00

SCALE: 1"= 50′

8/12/2014 4:34:43 PM
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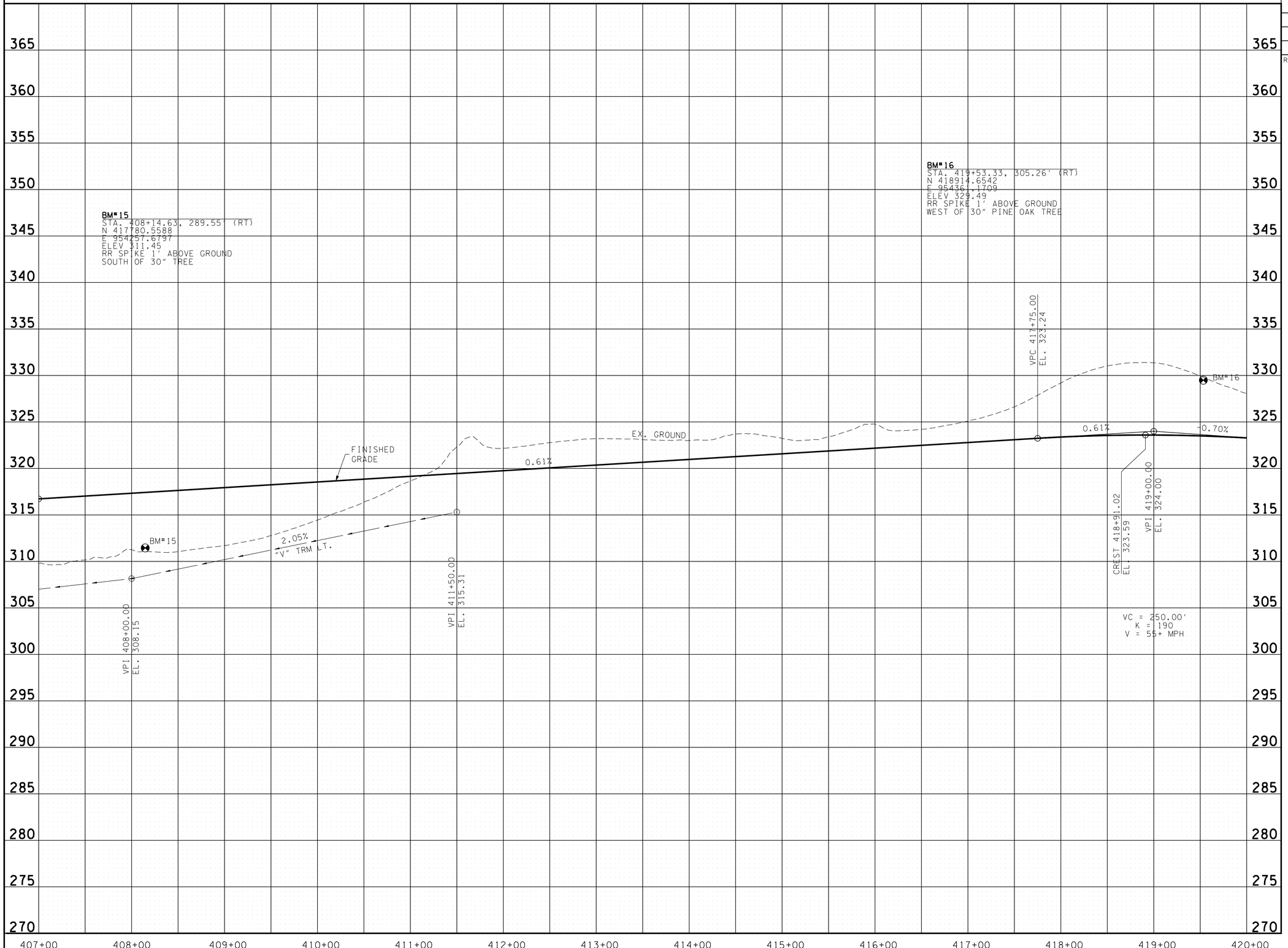
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	16B
CONST.	2014	38016-3206-04	16B

REV. 08-12-14: REMOVED TRUSS RD. INTERSECTION TIE.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 407+00 TO STA. 420+00

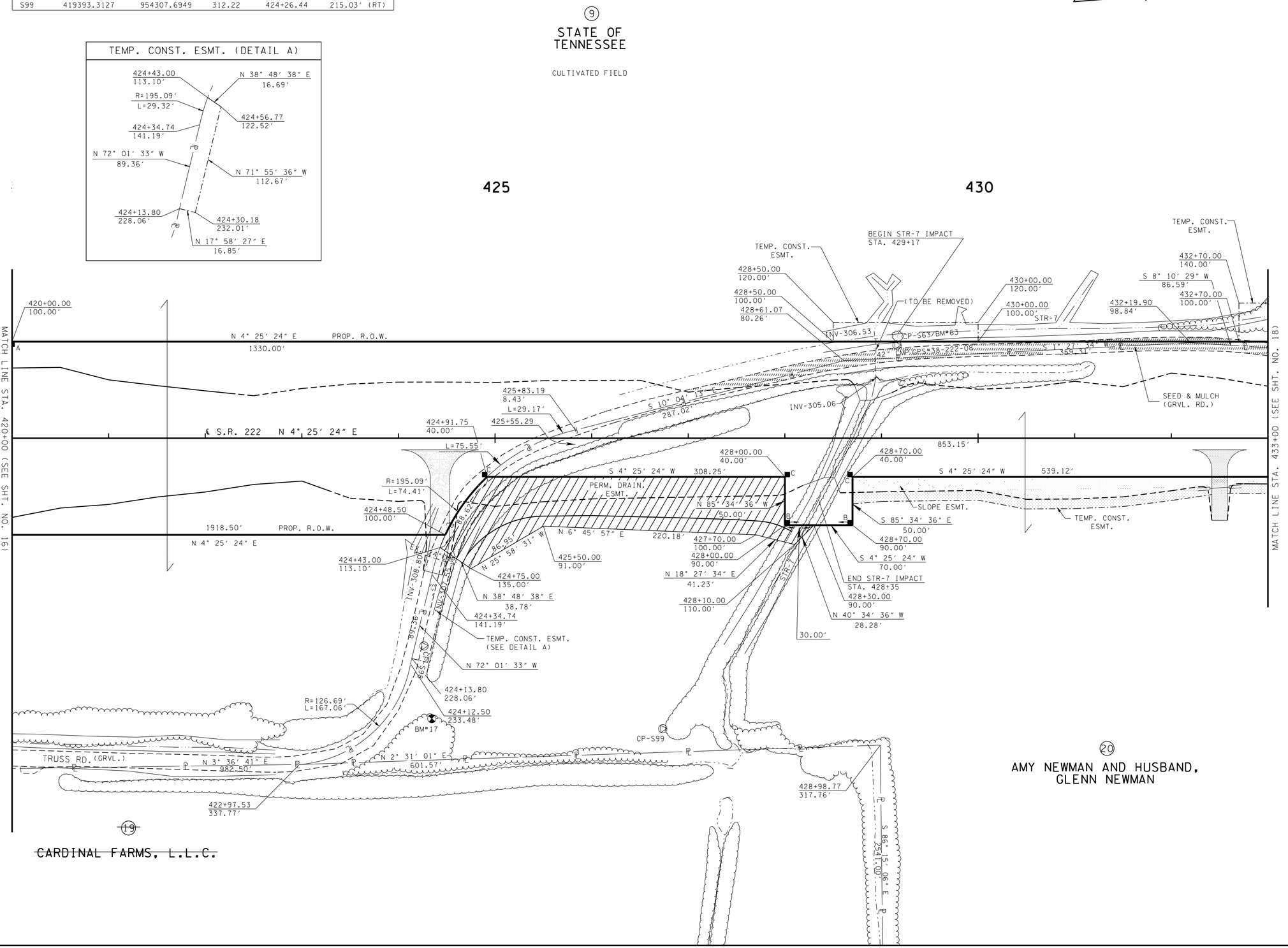
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/12/2014 4:34:44 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\016B.SHT

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S63	419905.4468	954035.0339	312.76	429+16.02	96.32' (LT)
S98	418881.2403	954319.4700	326.92	419+16.80	266.26' (RT)
S99	419393.3127	954307.6949	312.22	424+26.44	215.03' (RT)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	17
CONST.	2014	38016-3206-04	17

REV. 01-06-14:REMOVED SLOPE ESM'T. BETWEEN 424+91 RT. AND 428+00 RT. AND ADDED PERM. DRAIN. ESM'T. TO TRACT 20.
REV. 01-27-14:ADDED TEMP. CONST. ESM'T. ON TRACT 20.
REV. 03-17-14:REVISED R.O.W. LOCATION AT STA. 424+00(±) RT.
REV. 08-12-14: REVISED R.O.W. BETWEEN 423+95 RT. AND 424+48.50 RT. ADDED FLD. ENT. AT 424+43 RT.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

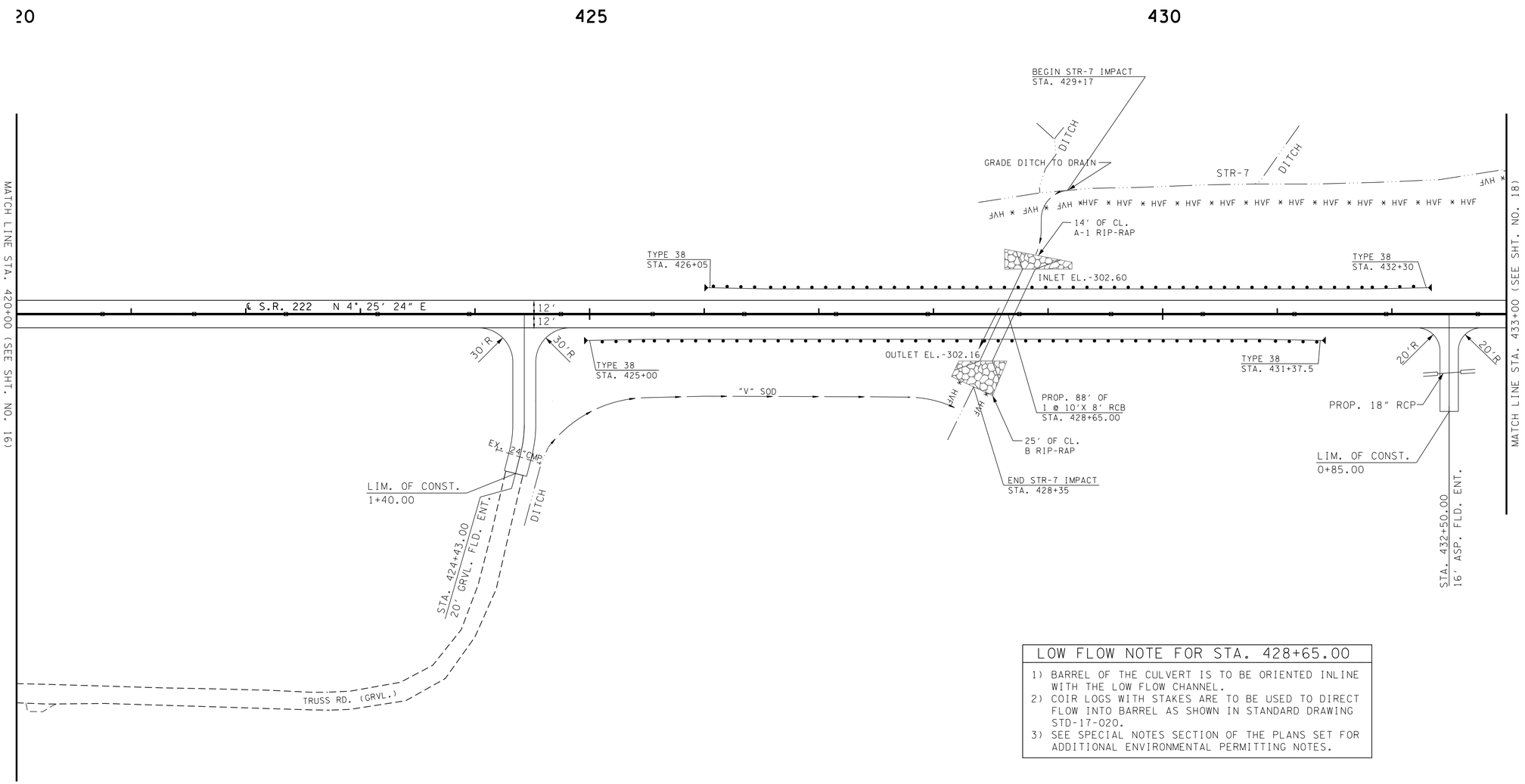
STA.420+00 TO STA.433+00

SCALE: 1"= 50'

8/13/2014 2:32:52 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\017.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	17A
CONST.	2014	38016-3206-04	17A

REV. 08-12-14: REMOVED CUL-DE-SAC AND DRAIN. ITEMS AT STA. 424+05, 166' RT. ADDED FLD. ENT. AT STA. 424+43 RT.



LOW FLOW NOTE FOR STA. 428+65.00

1) BARREL OF THE CULVERT IS TO BE ORIENTED INLINE WITH THE LOW FLOW CHANNEL.
2) COIR LOGS WITH STAKES ARE TO BE USED TO DIRECT FLOW INTO BARREL AS SHOWN IN STANDARD DRAWING STD-17-020.
3) SEE SPECIAL NOTES SECTION OF THE PLANS SET FOR ADDITIONAL ENVIRONMENTAL PERMITTING NOTES.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.420+00 TO STA.433+00

SCALE: 1"= 50'

8/12/2014 4:34:50 PM
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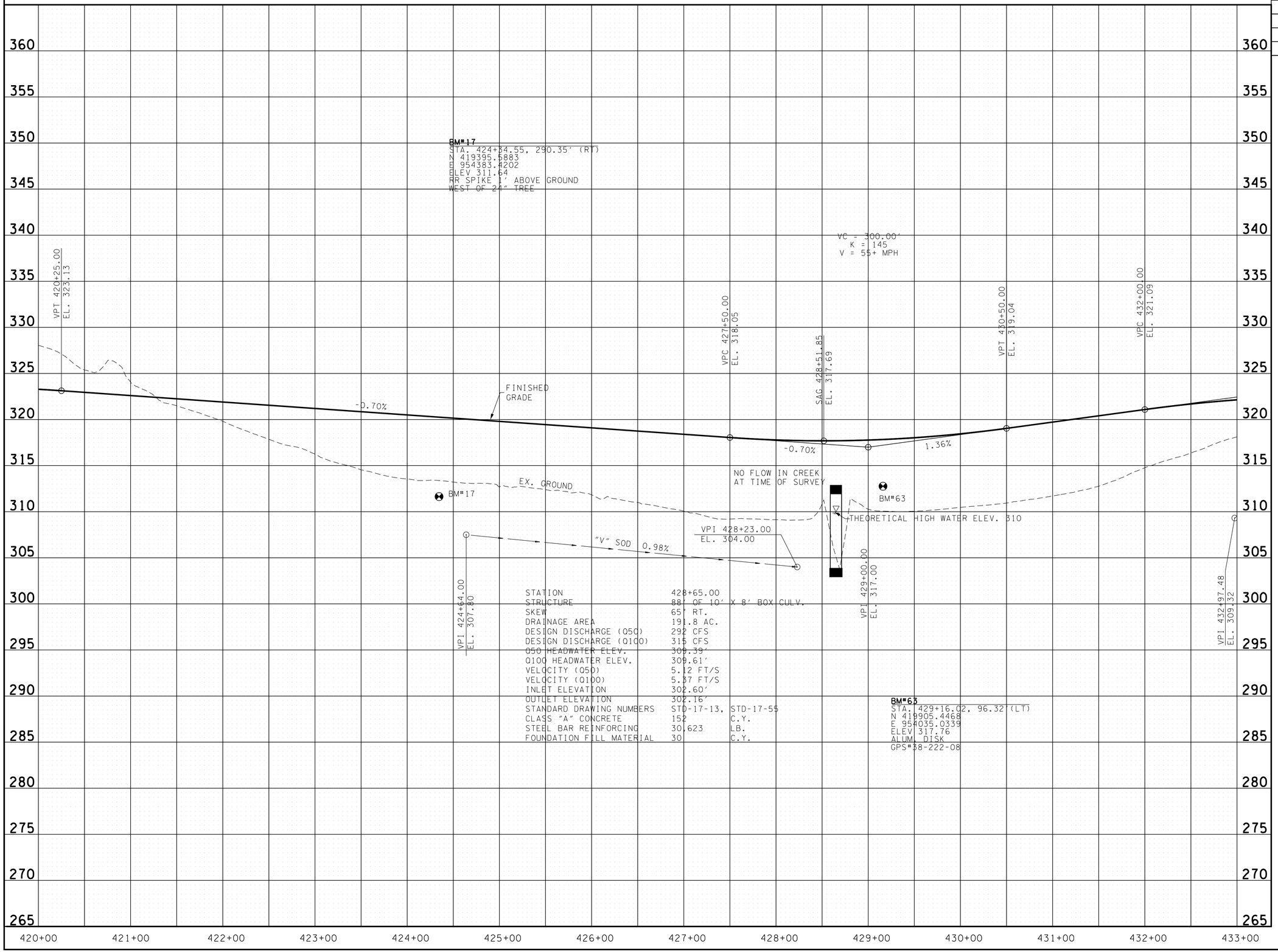
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	17B
CONST.	2014	38016-3206-04	17B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

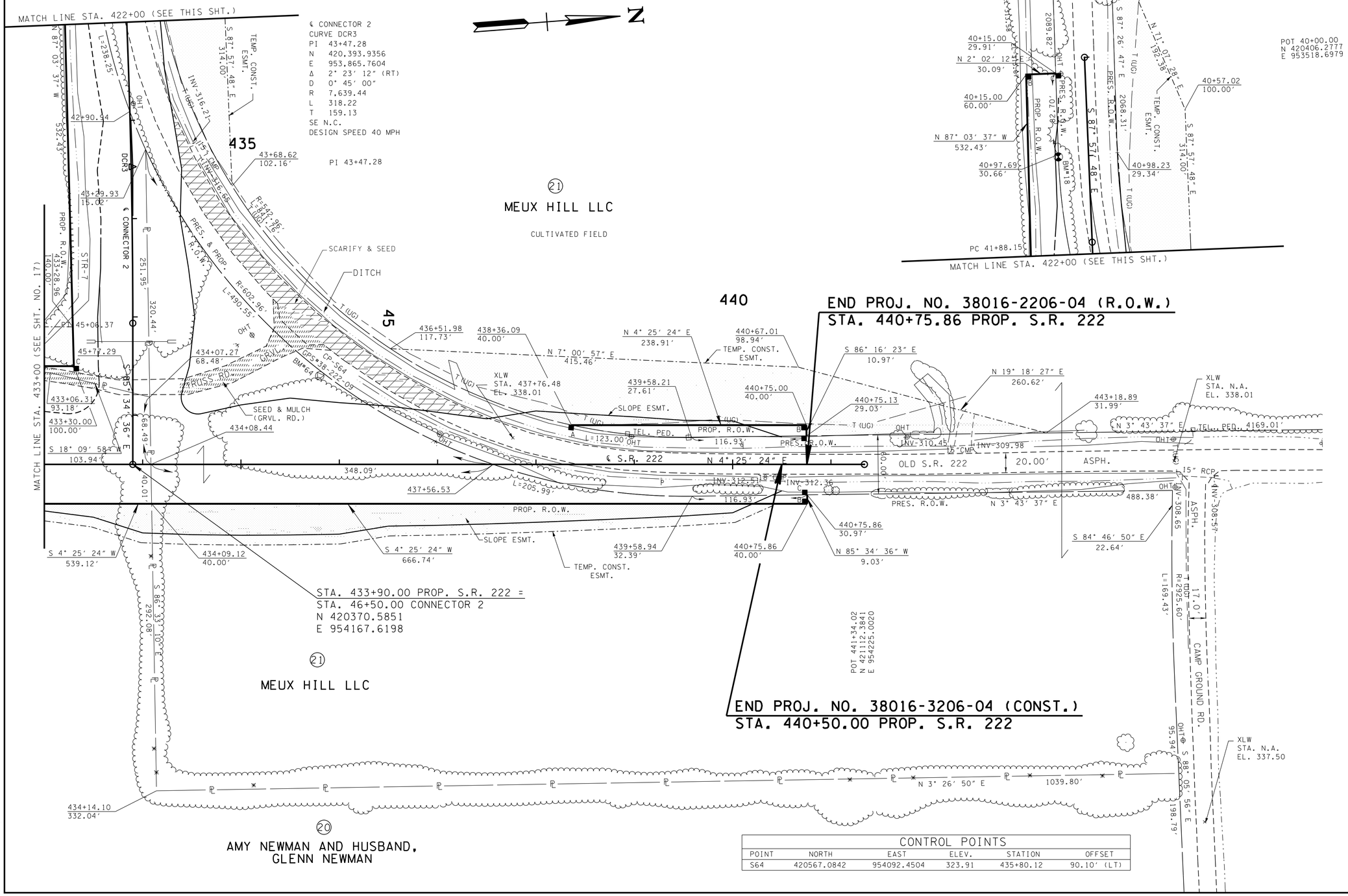
PROFILE

STA. 420+00 TO STA. 433+00

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

8/12/2014 4:34:51 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\017B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	18
CONST.	2014	38016-3206-04	18



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S64	420567.0842	954092.4504	323.91	435+80.12	90.10′ (LT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

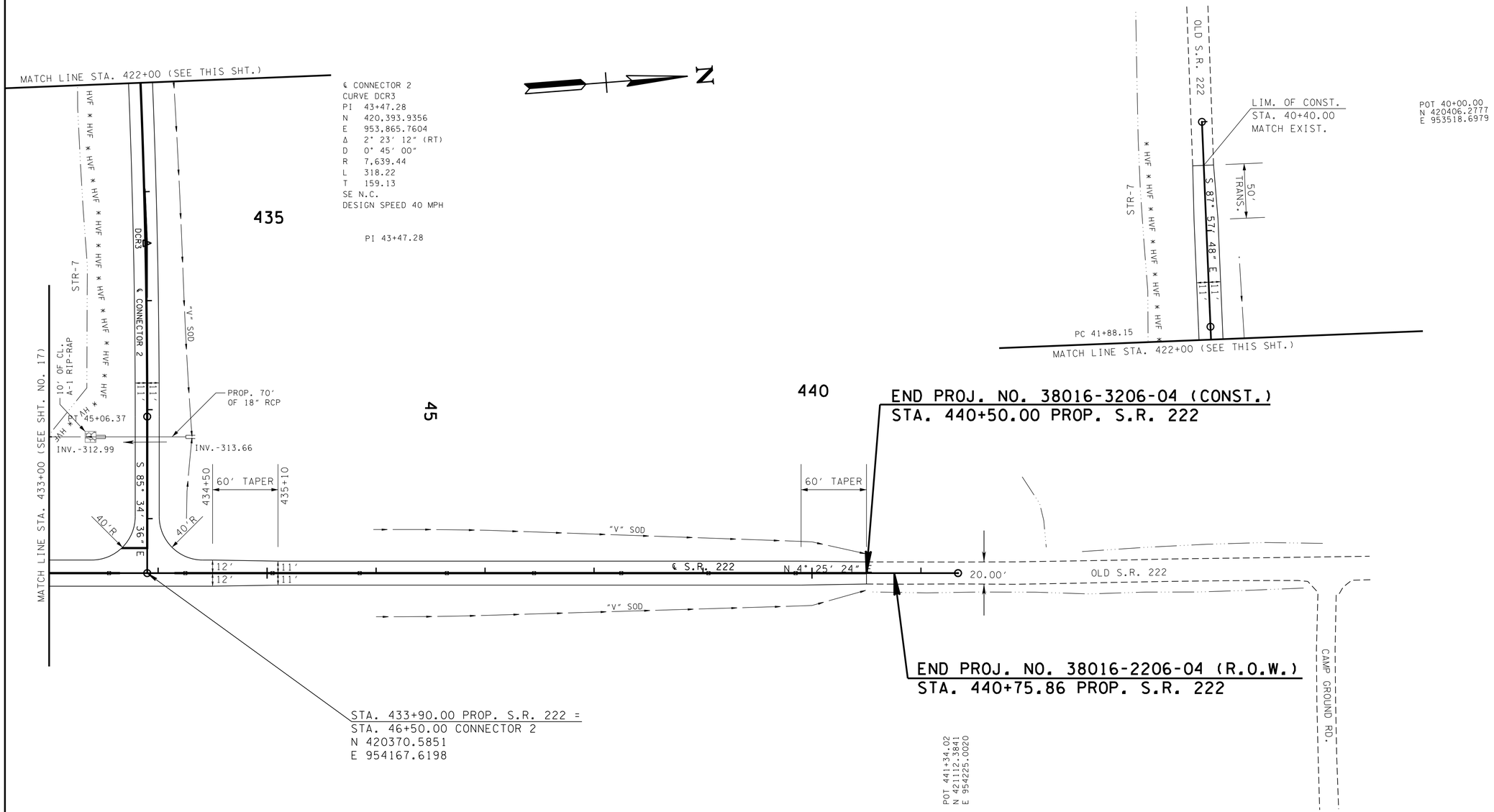
PRESENT LAYOUT

STA. 433+00 TO END PROJ.

SCALE: 1"= 50′

8/12/2014 4:34:56 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\018.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	18A
CONST.	2014	38016-3206-04	18A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

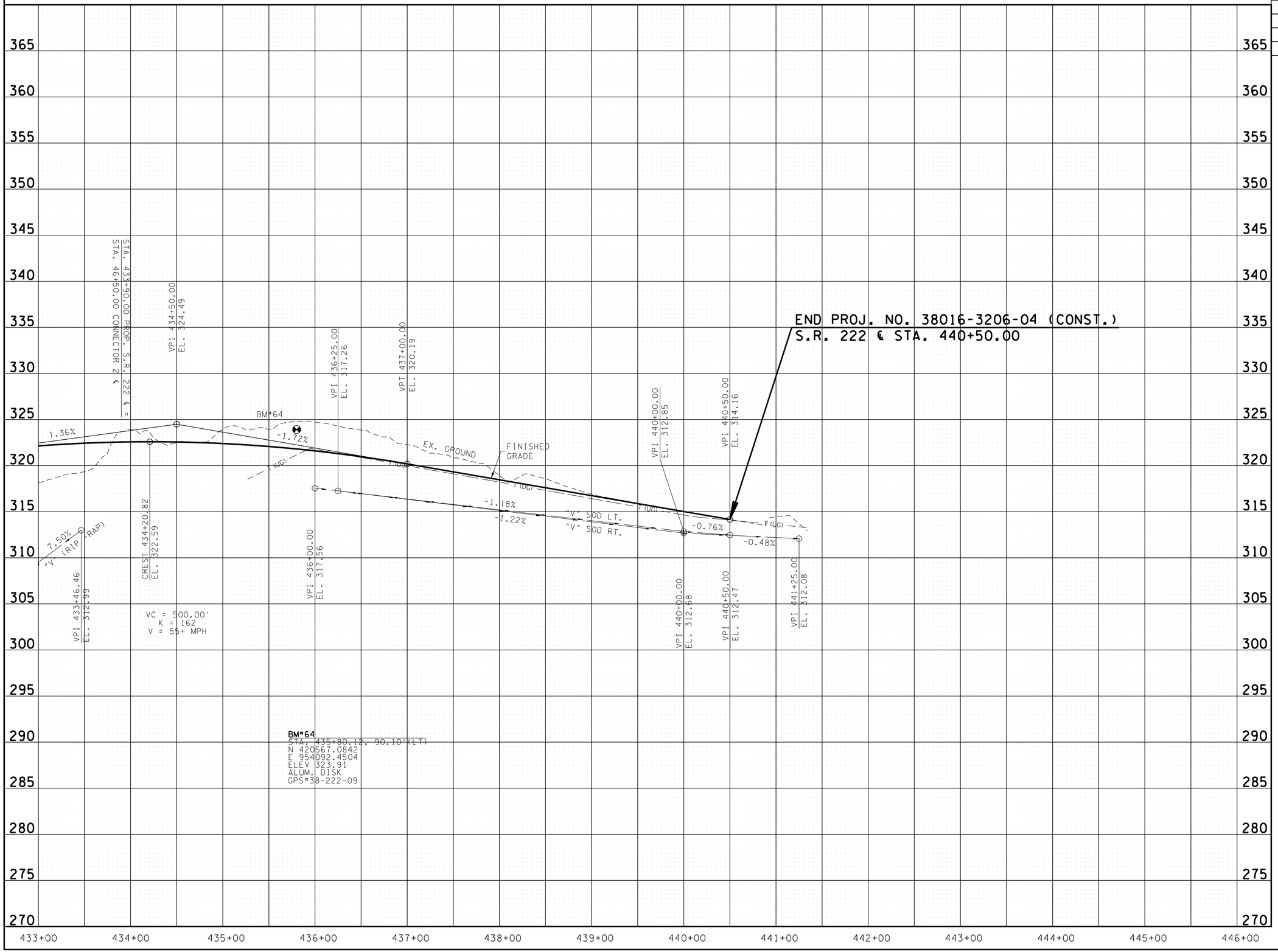
PROPOSED LAYOUT

STA. 433+00 TO END PROJ.

SCALE: 1"= 50′

8/12/2014 4:34:59 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\018A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	18B
CONST.	2014	38016-3206-04	18B



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UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

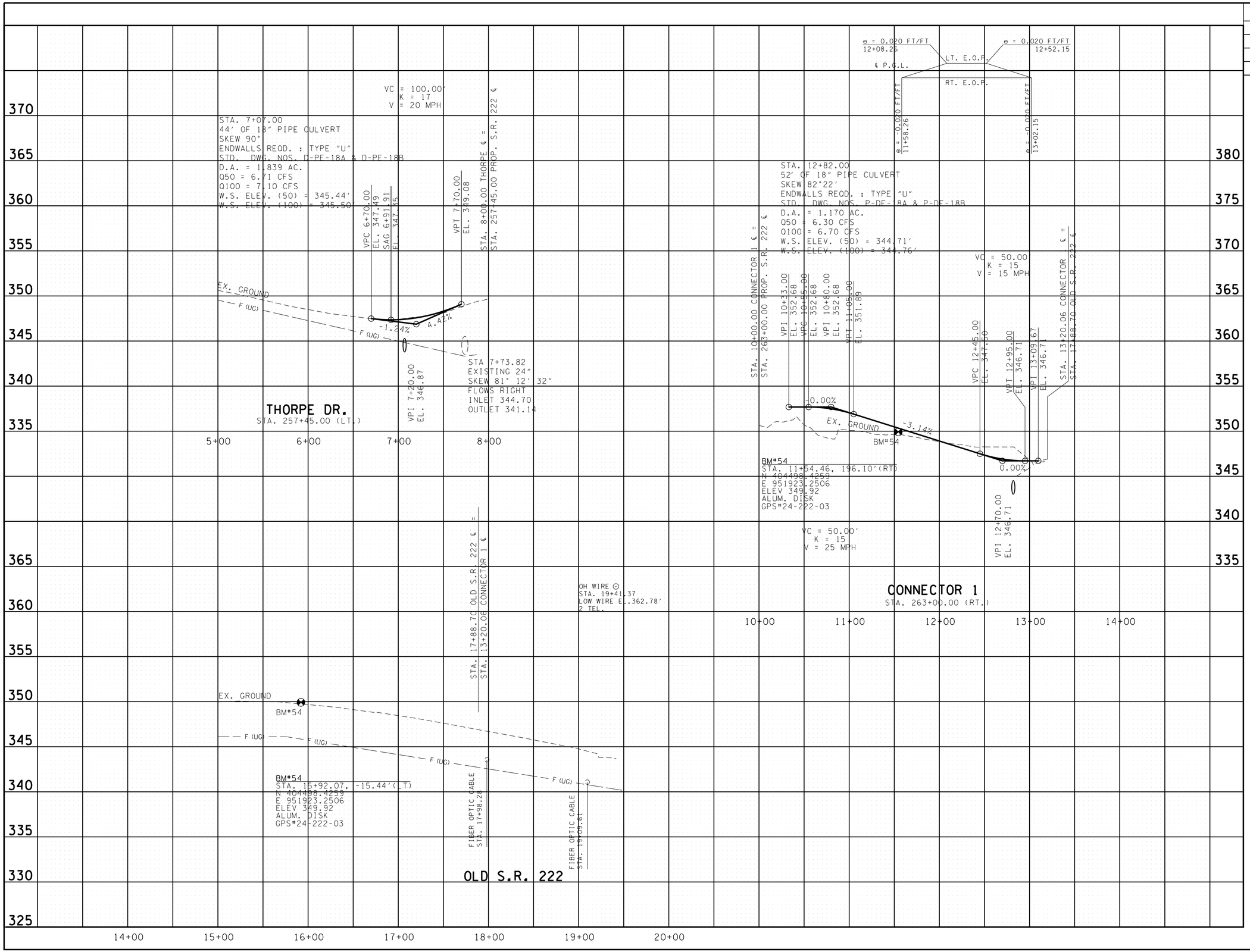
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 433+00 TO END PROJ.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	19
CONST.	2014	38016-3206-04	19



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.

8/12/2014 4:35:01 PM
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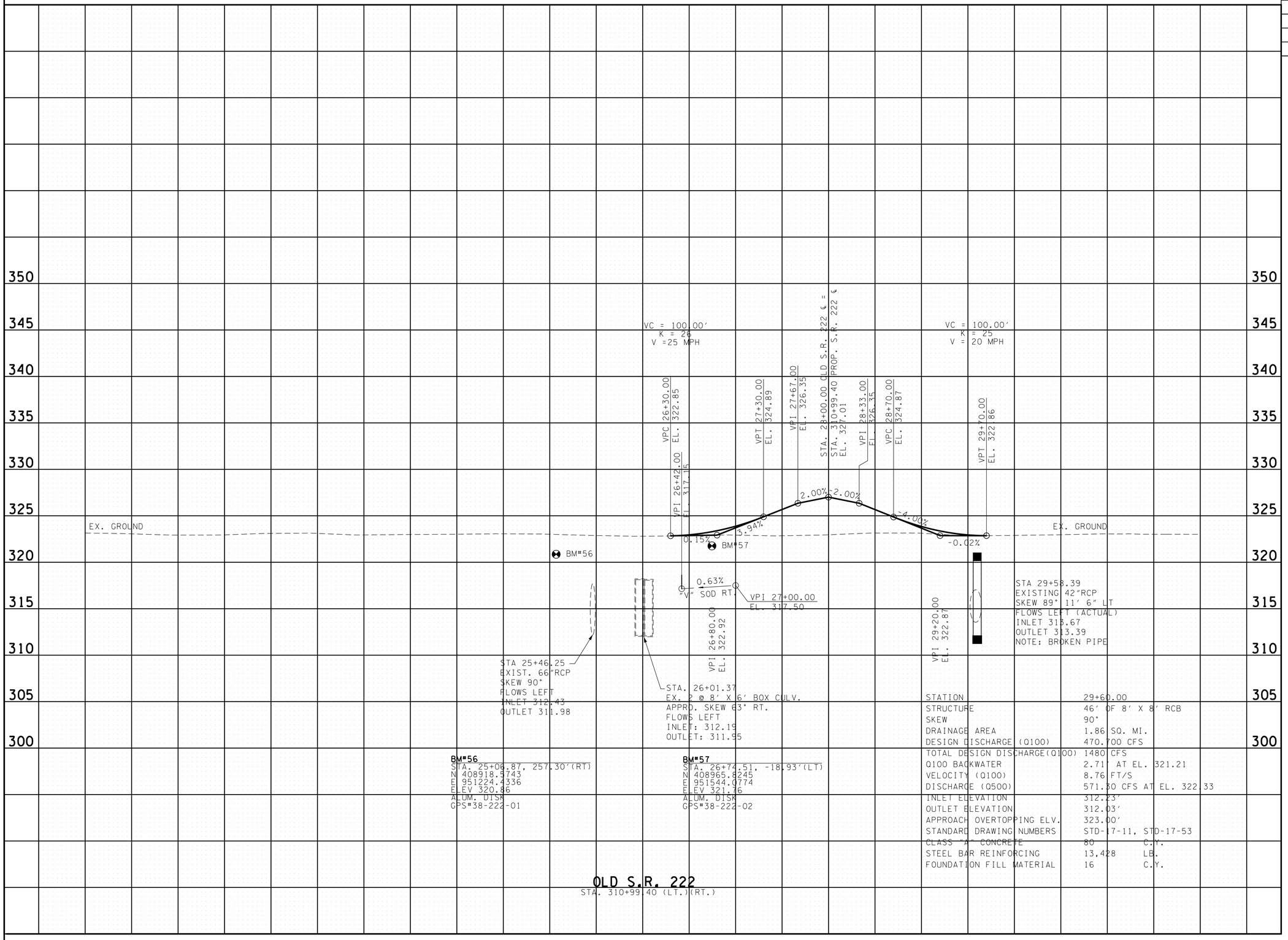
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	20
CONST.	2014	38016-3206-04	20



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.

8/12/2014 4:35:02 PM
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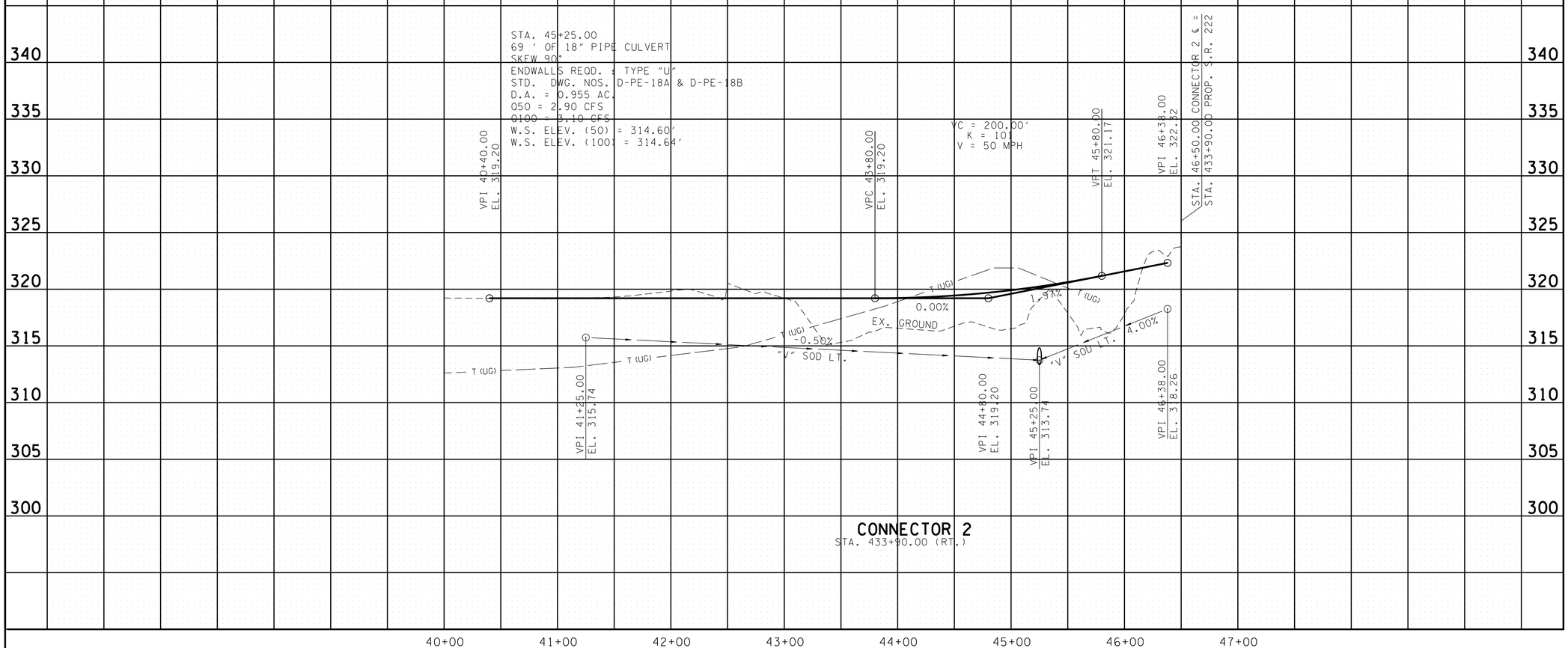
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	21
CONST.	2014	38016-3206-04	21

REV. 08-12-14: REMOVED TRUSS RD. PROFILE.



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.

8/12/2014 4:35:03 PM
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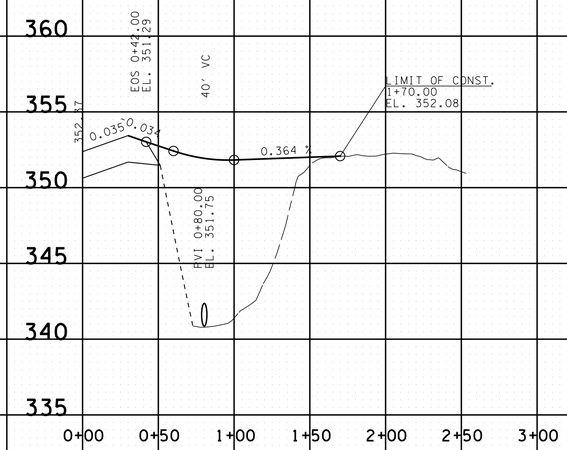
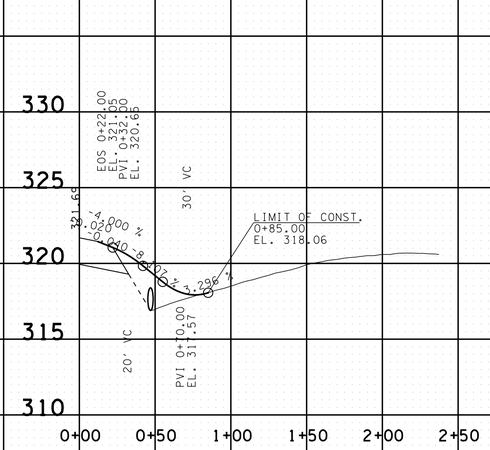
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	22
CONST.	2014	38016-3206-04	22

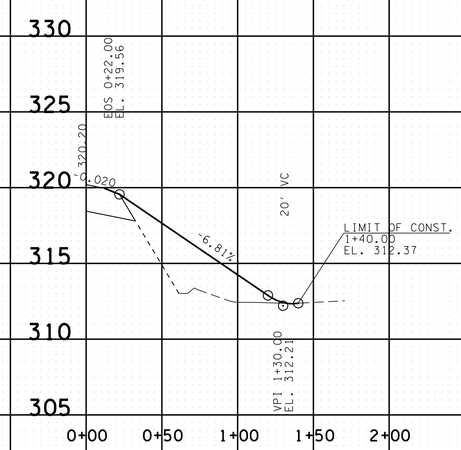
REV. 08-12-14: ADDED DRIVE PROFILE FOR STA. 424+43 RT.



FLD. ENT. RT. 256+46.00
TRACT NO. 2



FLD. ENT. RT. 432+50.00
TRACT NO. 20



FLD. ENT. RT. 424+43.00
TRACT NO. 20

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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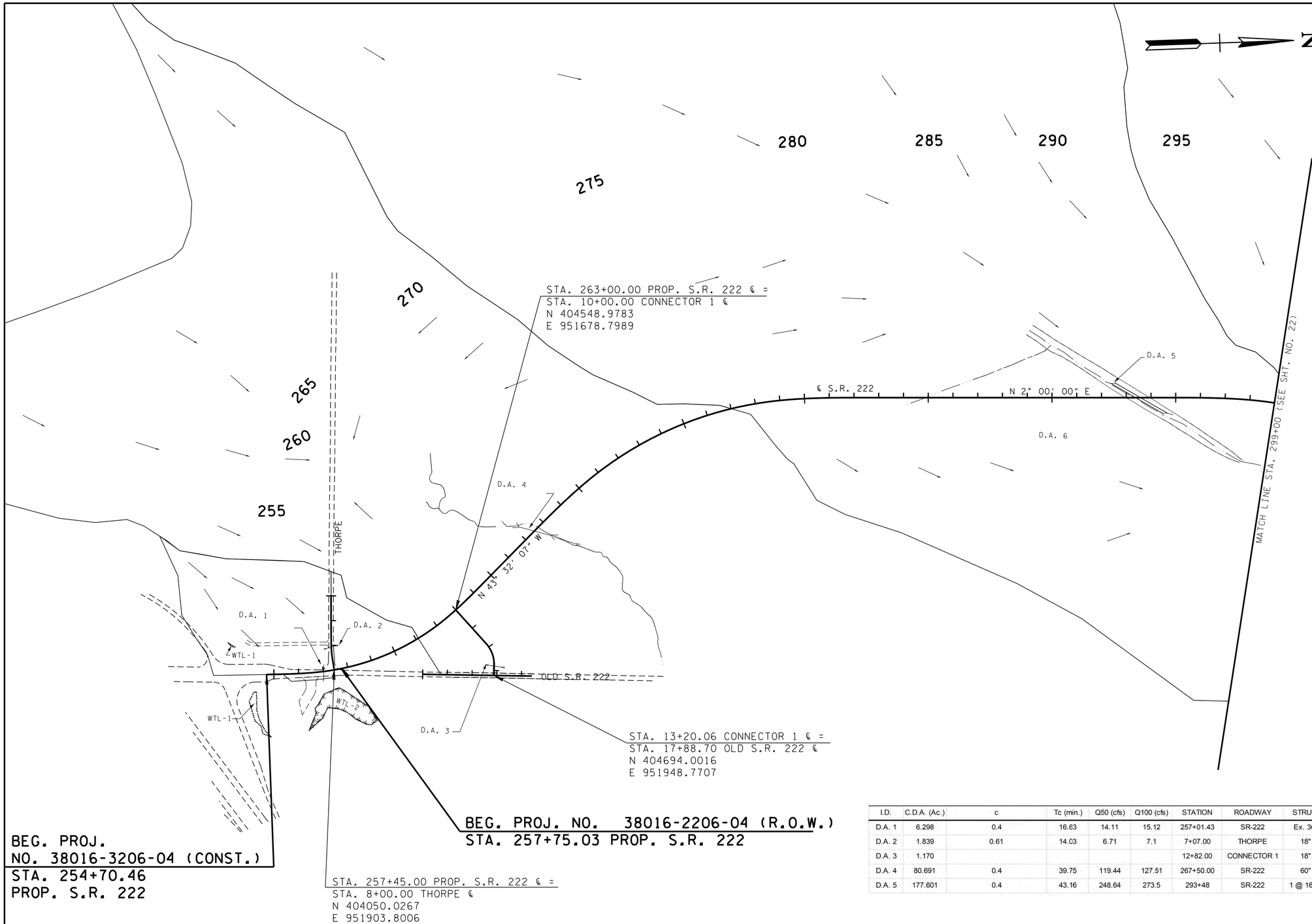
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	23
CONST.	2014	38016-3206-04	23



I.D.	C.D.A. (Ac.)	c	Tc (min.)	Q50 (cfs)	Q100 (cfs)	STATION	ROADWAY	STRUCTURE
D.A. 1	6.298	0.4	16.63	14.11	15.12	257+01.43	SR-222	Ex. 36" RCP
D.A. 2	1.839	0.61	14.03	6.71	7.1	7+07.00	THORPE	18" RCP
D.A. 3	1.170					12+82.00	CONNECTOR 1	18" RCP
D.A. 4	80.691	0.4	39.75	119.44	127.51	267+50.00	SR-222	60" RCP
D.A. 5	177.601	0.4	43.16	248.64	273.5	293+48	SR-222	1 @ 16'X6' BOX

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

BEG. PROJ. TO STA.299+00

SCALE: 1"=200'

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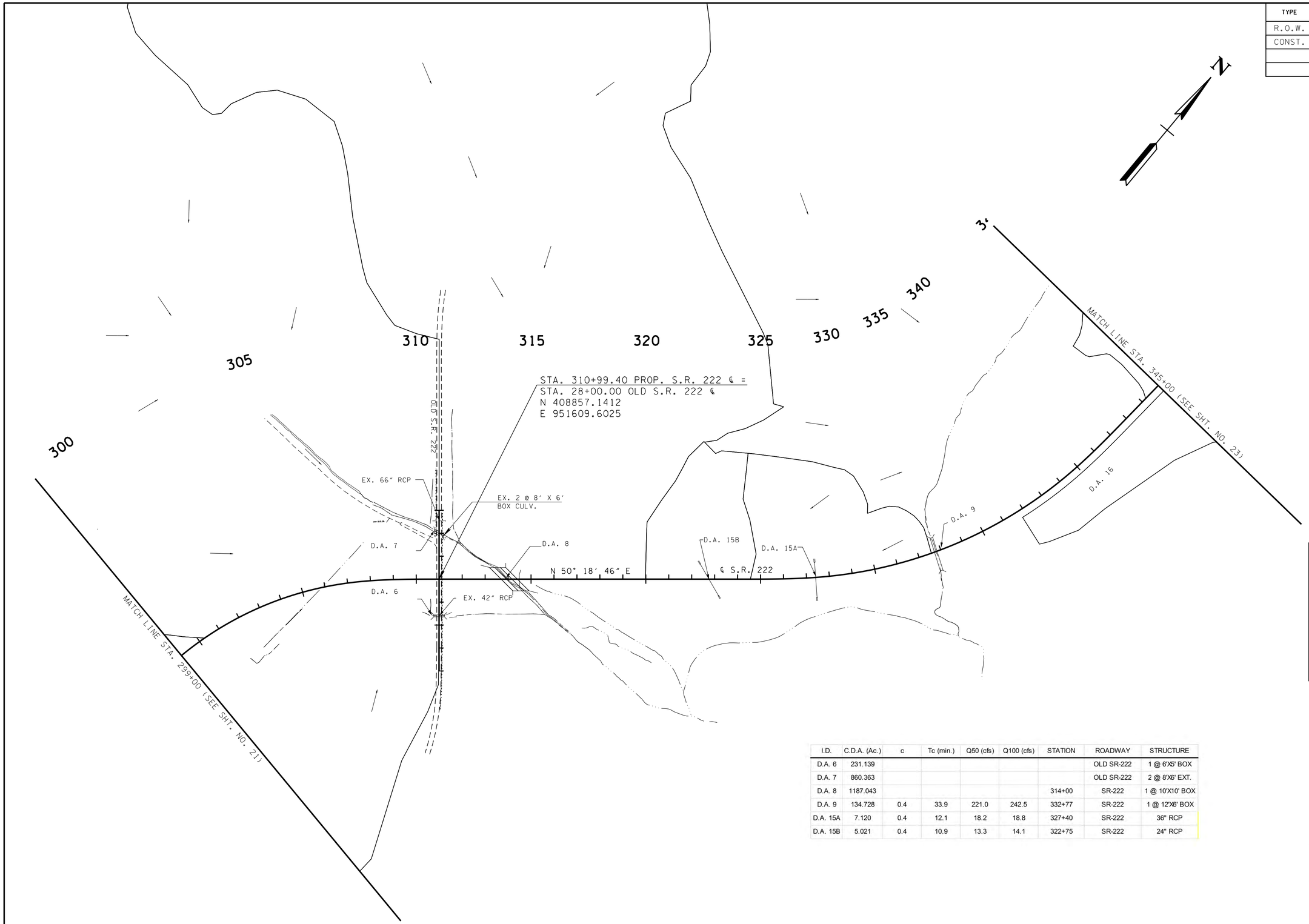
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	24
CONST.	2014	38016-3206-04	24



I.D.	C.D.A. (Ac.)	c	Tc (min.)	Q50 (cfs)	Q100 (cfs)	STATION	ROADWAY	STRUCTURE
D.A. 6	231.139						OLD SR-222	1 @ 6'X5' BOX
D.A. 7	860.363						OLD SR-222	2 @ 8'X6' EXT.
D.A. 8	1187.043					314+00	SR-222	1 @ 10'X10' BOX
D.A. 9	134.728	0.4	33.9	221.0	242.5	332+77	SR-222	1 @ 12'X6' BOX
D.A. 15A	7.120	0.4	12.1	18.2	18.8	327+40	SR-222	36" RCP
D.A. 15B	5.021	0.4	10.9	13.3	14.1	322+75	SR-222	24" RCP

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.299+00 TO STA.345+00

SCALE: 1"=200'

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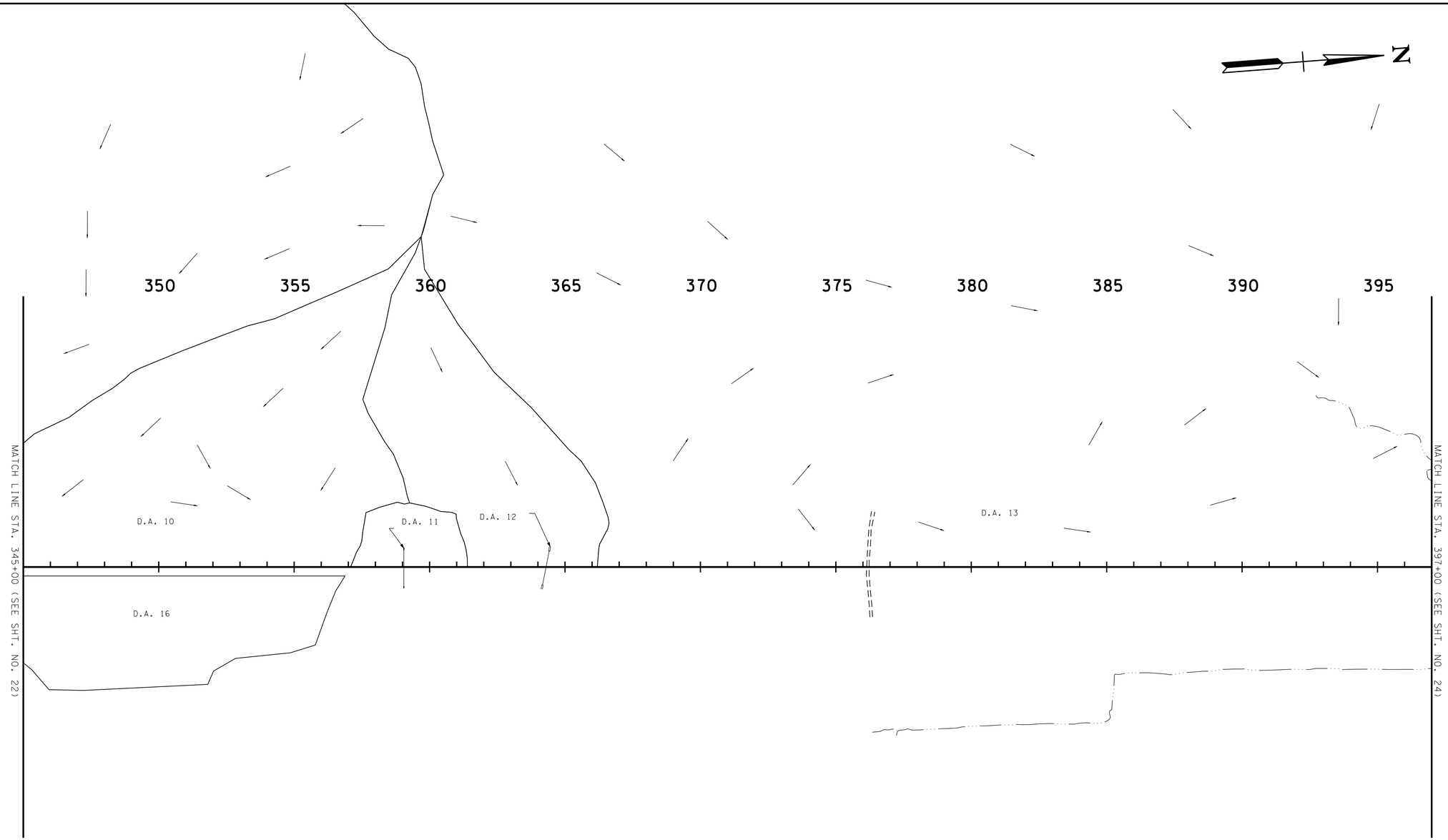
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	25
CONST.	2014	38016-3206-04	25



I.D.	C.D.A. (Ac.)	c	Tc (min.)	Q50 (cfs)	Q100 (cfs)	STATION	ROADWAY	STRUCTURE
D.A. 10	25.152	COMBINED WITH D.A. 9						NONE
D.A. 11	1.896	0.4	6.3	6.0	6.4	359+05	SR-222	18" RCP
D.A. 12	12.332	0.4	15.5	28.1	30.1	364+30	SR-222	36" RCP
D.A. 16	13.520	0.4	17.6	29.2	30.8	N/A	SR-222	NONE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.345+00 TO STA.397+00

SCALE: 1"=200'

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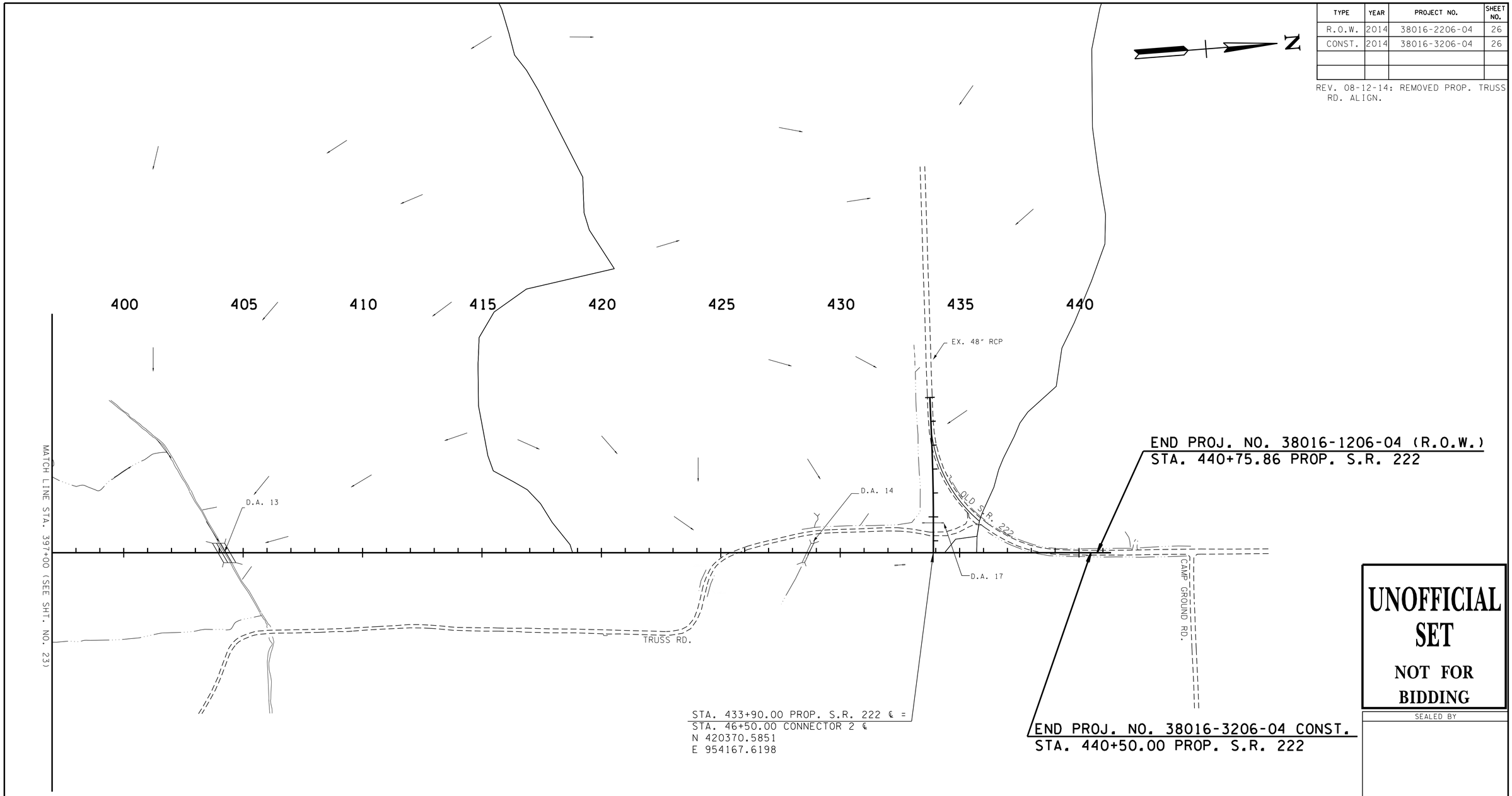
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	26
CONST.	2014	38016-3206-04	26

REV. 08-12-14: REMOVED PROP. TRUSS RD. ALIGN.



I.D.	C.D.A. (Ac.)	c	Tc (min.)	Q50 (cfs)	Q100 (cfs)	STATION	ROADWAY	STRUCTURE
D.A. 13	669.093					404+20	SR-222	1 @10'X8' BOX
D.A. 14	191.875	0.4	39.0	291.7	314.7	428+65	SR-222	1 @ 10'X8' BOX
D.A. 17	0.955	0.46	11.3	2.9	3.1	45+25	CONNECTOR 2	18" RCP

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.397+00 TO END. PROJ.

SCALE: 1"=200'

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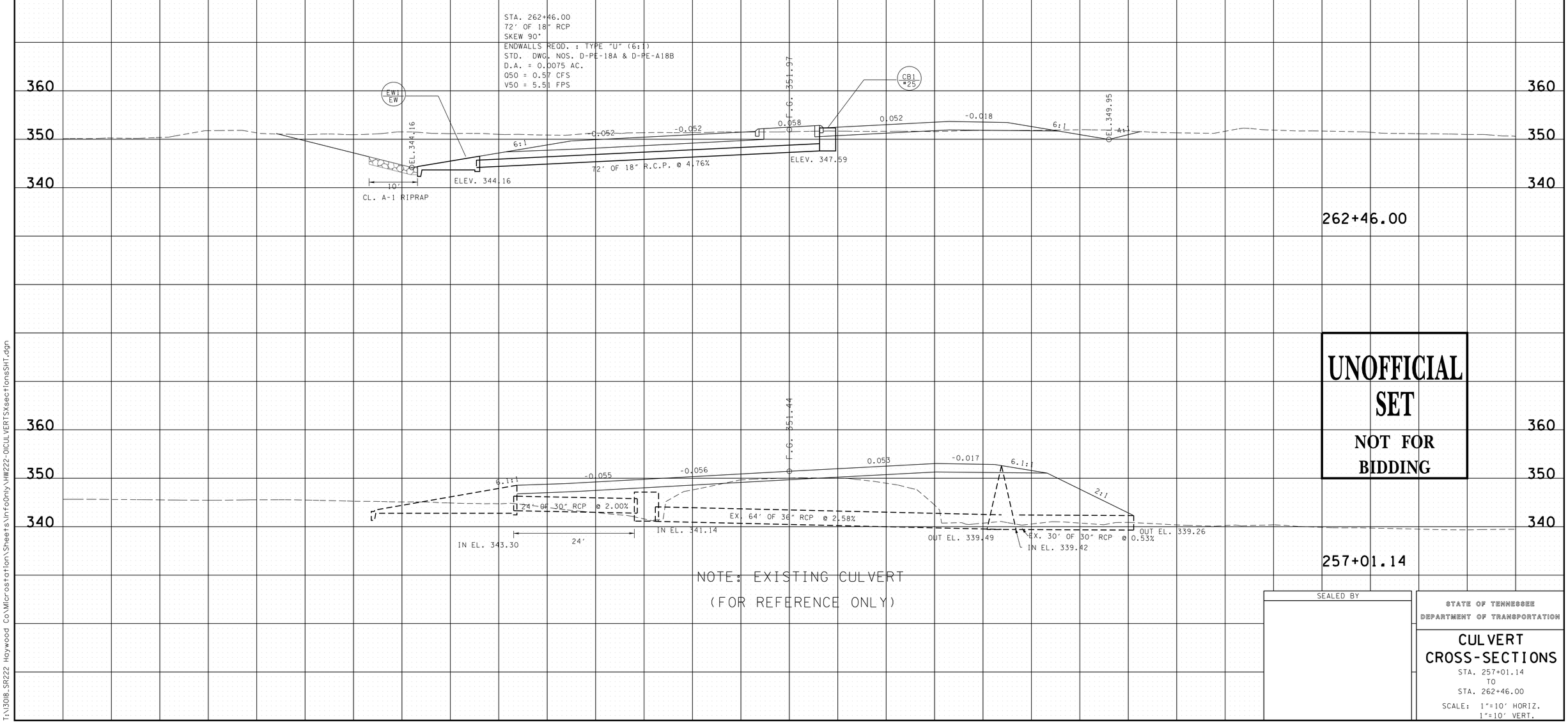
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	27



UNOFFICIAL SET

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CULVERT CROSS-SECTIONS

STA. 257+01.14
TO
STA. 262+46.00

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

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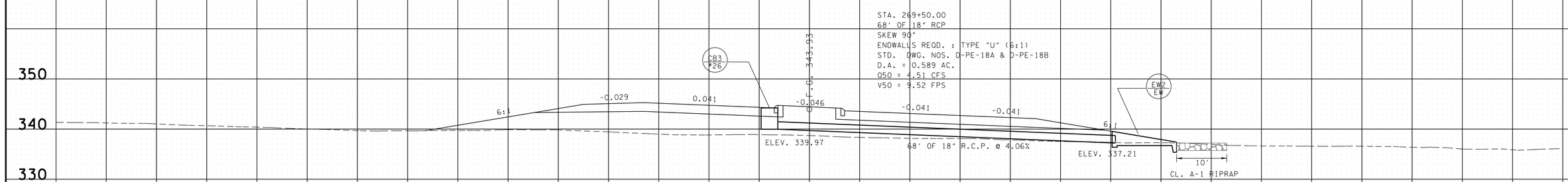
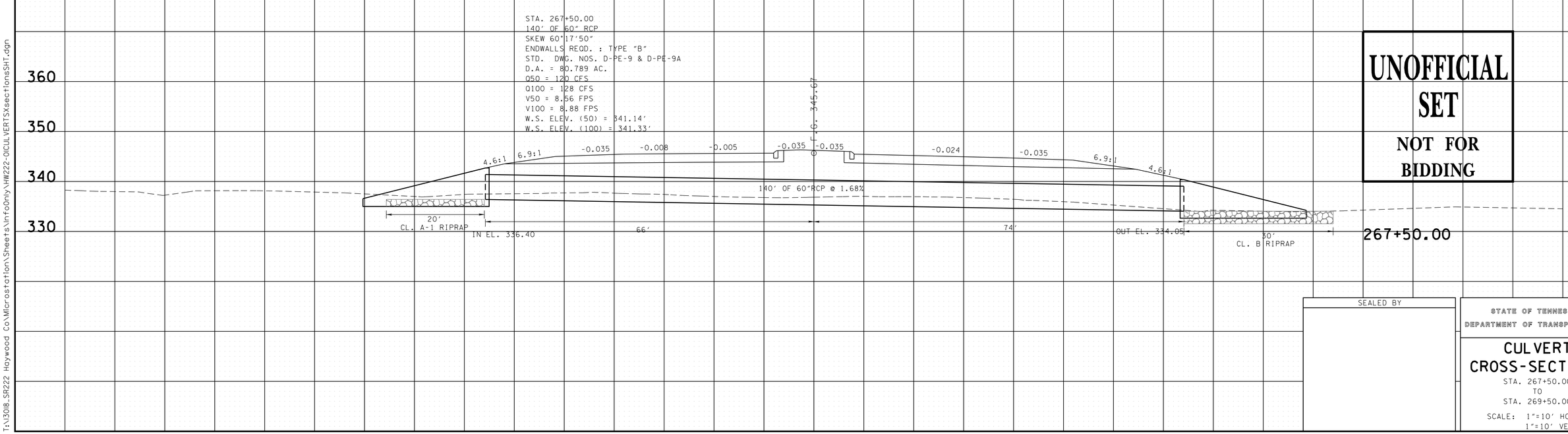
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	28





UNOFFICIAL SET

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CULVERT CROSS-SECTIONS

STA. 267+50.00
TO
STA. 269+50.00

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

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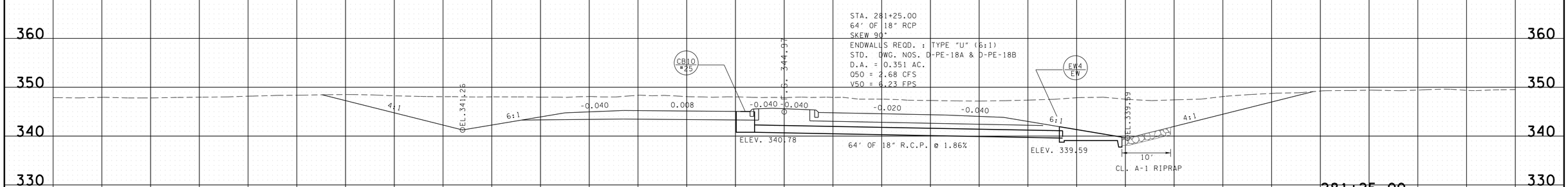
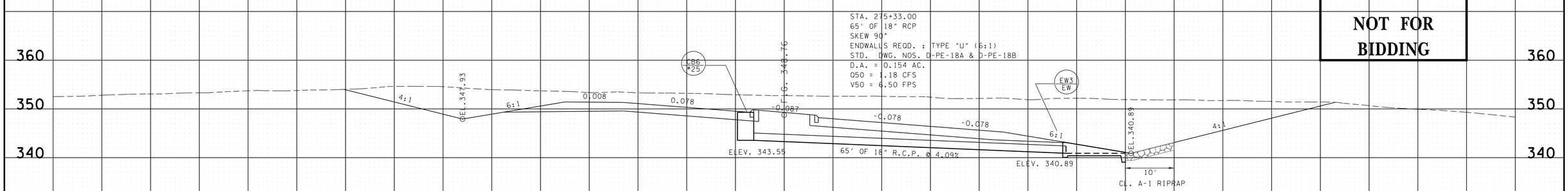
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	29





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CULVERT CROSS-SECTIONS

STA. 275+33.00
TO
STA. 281+25.00

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

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

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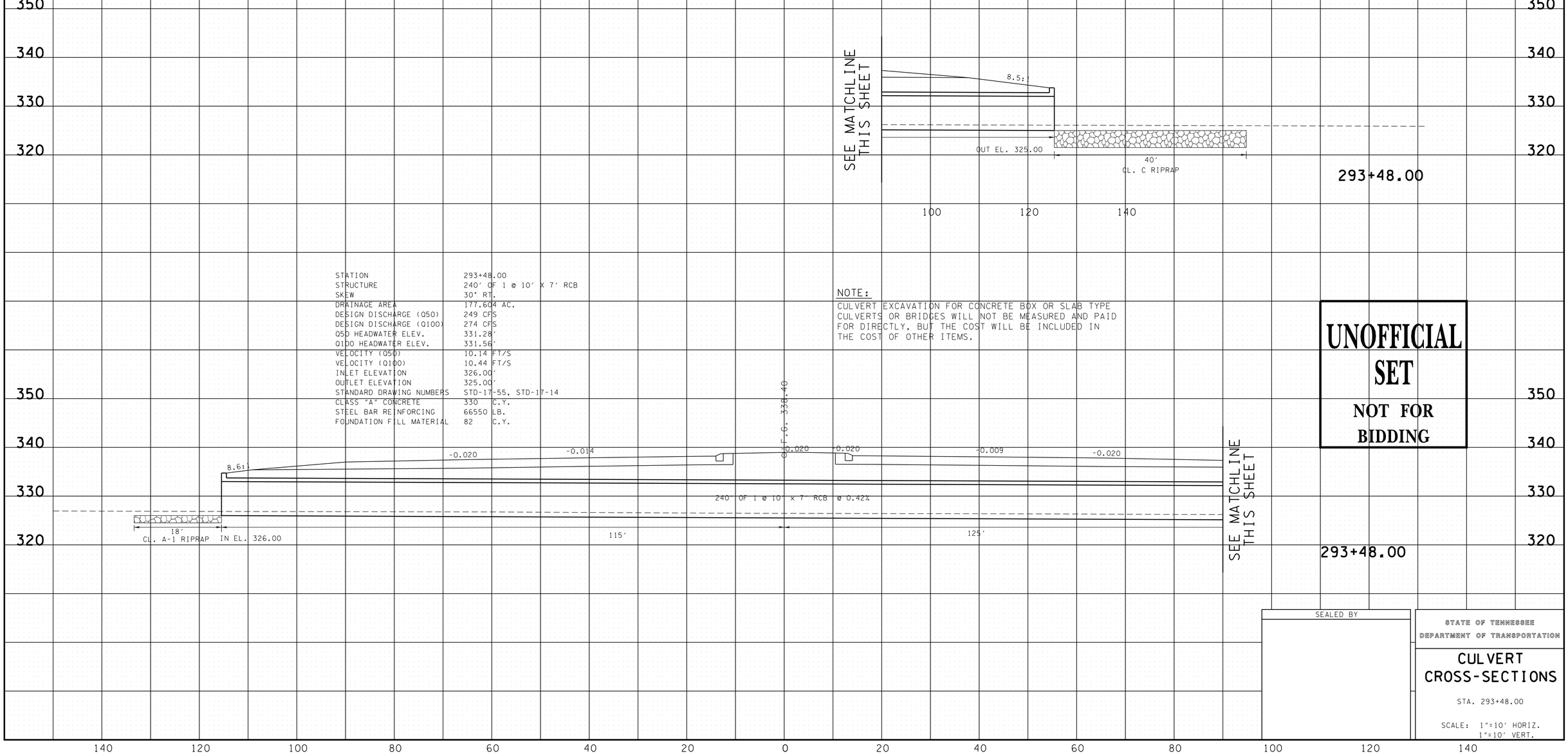
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	30



STATION	293+48.00
STRUCTURE	240' OF 1 @ 10' X 7' RCB
SKEW	30° RT.
DRAINAGE AREA	177.604 AC.
DESIGN DISCHARGE (Q50)	249 CFS
DESIGN DISCHARGE (Q100)	274 CFS
Q50 HEADWATER ELEV.	331.28'
Q100 HEADWATER ELEV.	331.56'
VELOCITY (Q50)	10.14 FT/S
VELOCITY (Q100)	10.44 FT/S
INLET ELEVATION	326.00'
OUTLET ELEVATION	325.00'
STANDARD DRAWING NUMBERS	STD-17-55, STD-17-14
CLASS "A" CONCRETE	330 C.Y.
STEEL BAR REINFORCING	66550 LB.
FOUNDATION FILL MATERIAL	82 C.Y.

NOTE:

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.

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CULVERT CROSS-SECTIONS

STA. 293+48.00

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

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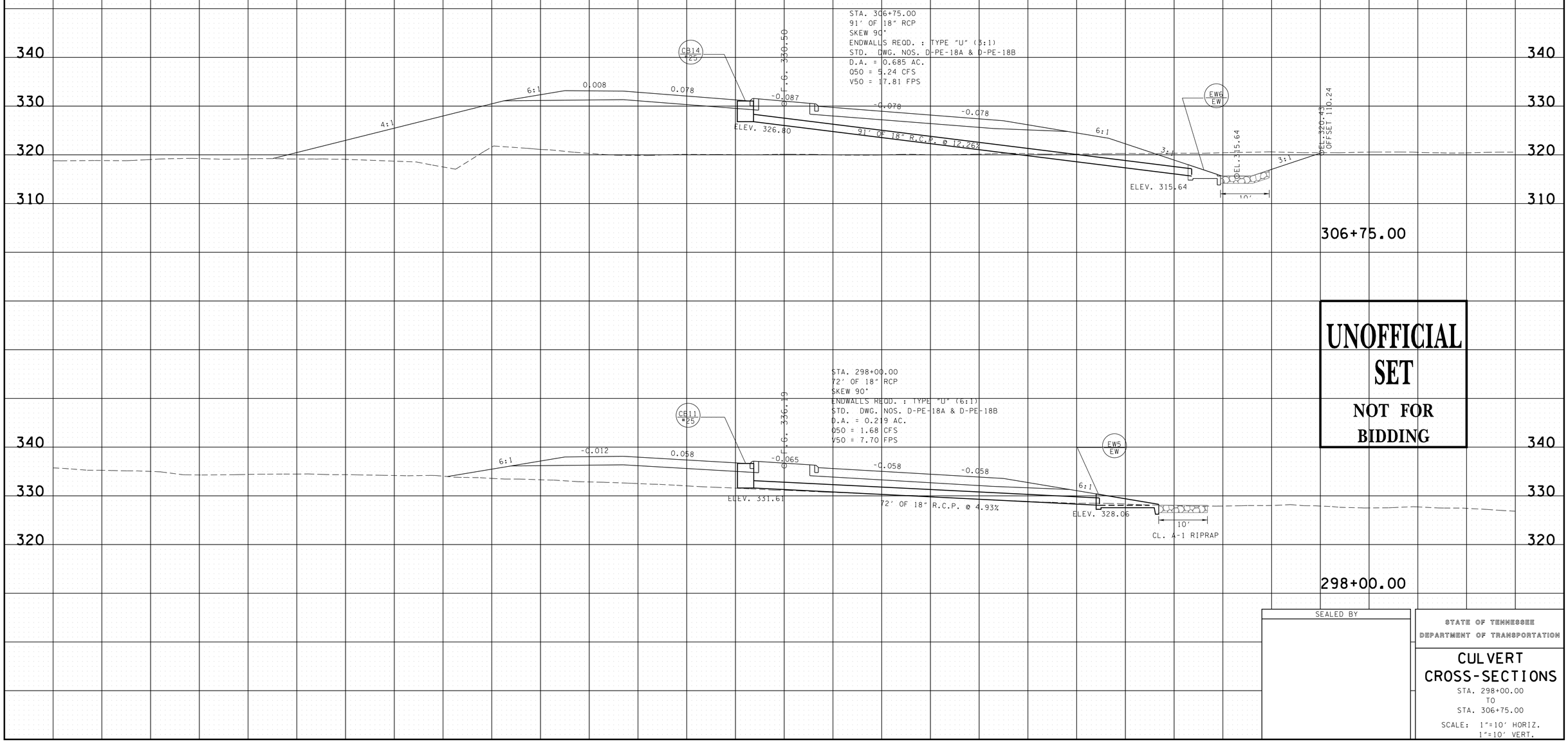
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	31



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CULVERT CROSS-SECTIONS

STA. 298+00.00
TO
STA. 306+75.00

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

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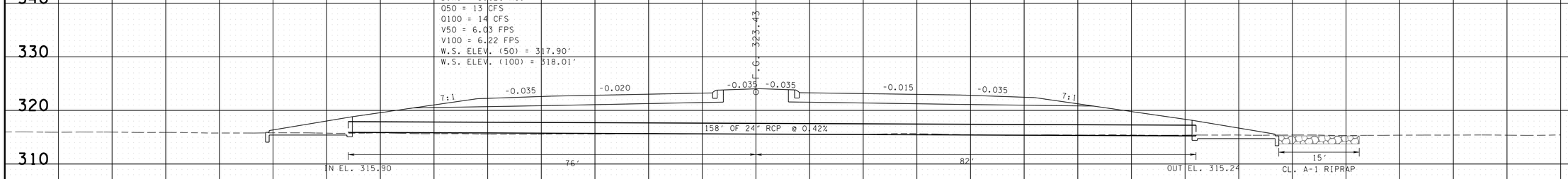
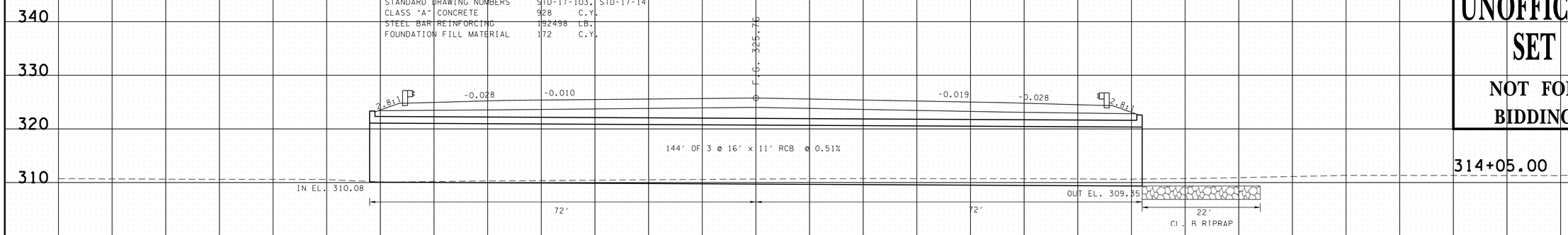
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	32

STA. 322+75.00
158' OF 24" RCP
SKEW 60° RT
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-24A & D-PE-24B
D.A. = 5.021 AC.
Q50 = 13 CFS
Q100 = 14 CFS
V50 = 6.03 FPS
V100 = 6.22 FPS
W.S. ELEV. (50) = 317.90'
W.S. ELEV. (100) = 318.01'



STATION	314+05.00
STRUCTURE	144' OF 3 @ 16' X 11' RCB
SKEW	45°RT.
DRAINAGE AREA	1.86 SQ. MI.
DESIGN DISCHARGE (Q100)	1480 CFS
TOTAL DESIGN DISCHARGE(Q100)	1480 CFS
Q100 BACKWATER	1.03' AT EL. 318.82
VELOCITY (Q100)	4.12 FT/S
DISCHARGE (Q500)	2030 CFS AT EL. 319.20
INLET ELEVATION	310.08'
OUTLET ELEVATION	309.35'
APPROACH OVERTOPPING ELV.	322.19'
STANDARD DRAWING NUMBERS	STD-17-103, STD-17-14
CLASS "A" CONCRETE	928 C.Y.
STEEL BAR REINFORCING	192498 LB.
FOUNDATION FILL MATERIAL	172 C.Y.



UNOFFICIAL SET

NOT FOR BIDDING

NOTE:
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.

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CULVERT CROSS-SECTIONS

STA. 314+05.00
TO
STA. 322+75.00

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

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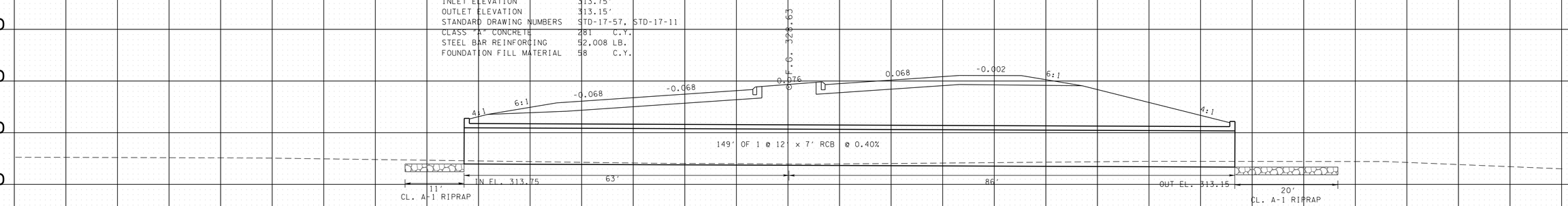
120 100 80 60 40 20 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	33

STATION	332+77.00
STRUCTURE	149' OF 12' X 7' RCB
SKEW	86°54'53" LT.
DRAINAGE AREA	109.576 AC.
DESIGN DISCHARGE (Q50)	221 CFS
DESIGN DISCHARGE (Q100)	243 CFS
Q50 HEADWATER ELEV.	319.55'
Q100 HEADWATER ELEV.	319.77'
VELOCITY (Q50)	3.62 FT/S
VELOCITY (Q100)	3.83 FT/S
INLET ELEVATION	313.75'
OUTLET ELEVATION	313.15'
STANDARD DRAWING NUMBERS	STD-17-57, STD-17-11
CLASS "A" CONCRETE	281 C.Y.
STEEL BAR REINFORCING	52,008 LB.
FOUNDATION FILL MATERIAL	58 C.Y.

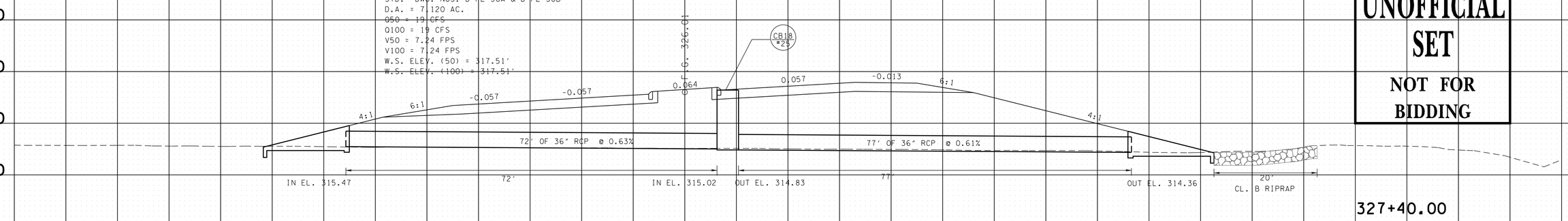


332+77.00

NOTE:

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.

STA. 327+40.00
149' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-36A & D-PE-36B
D.A. = 7.120 AC.
Q50 = 19 CFS
Q100 = 19 CFS
V50 = 7.24 FPS
V100 = 7.24 FPS
W.S. ELEV. (50) = 317.51'
W.S. ELEV. (100) = 317.51'



327+40.00

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CULVERT CROSS-SECTIONS

STA. 327+40.00
TO
STA. 332+77.00

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

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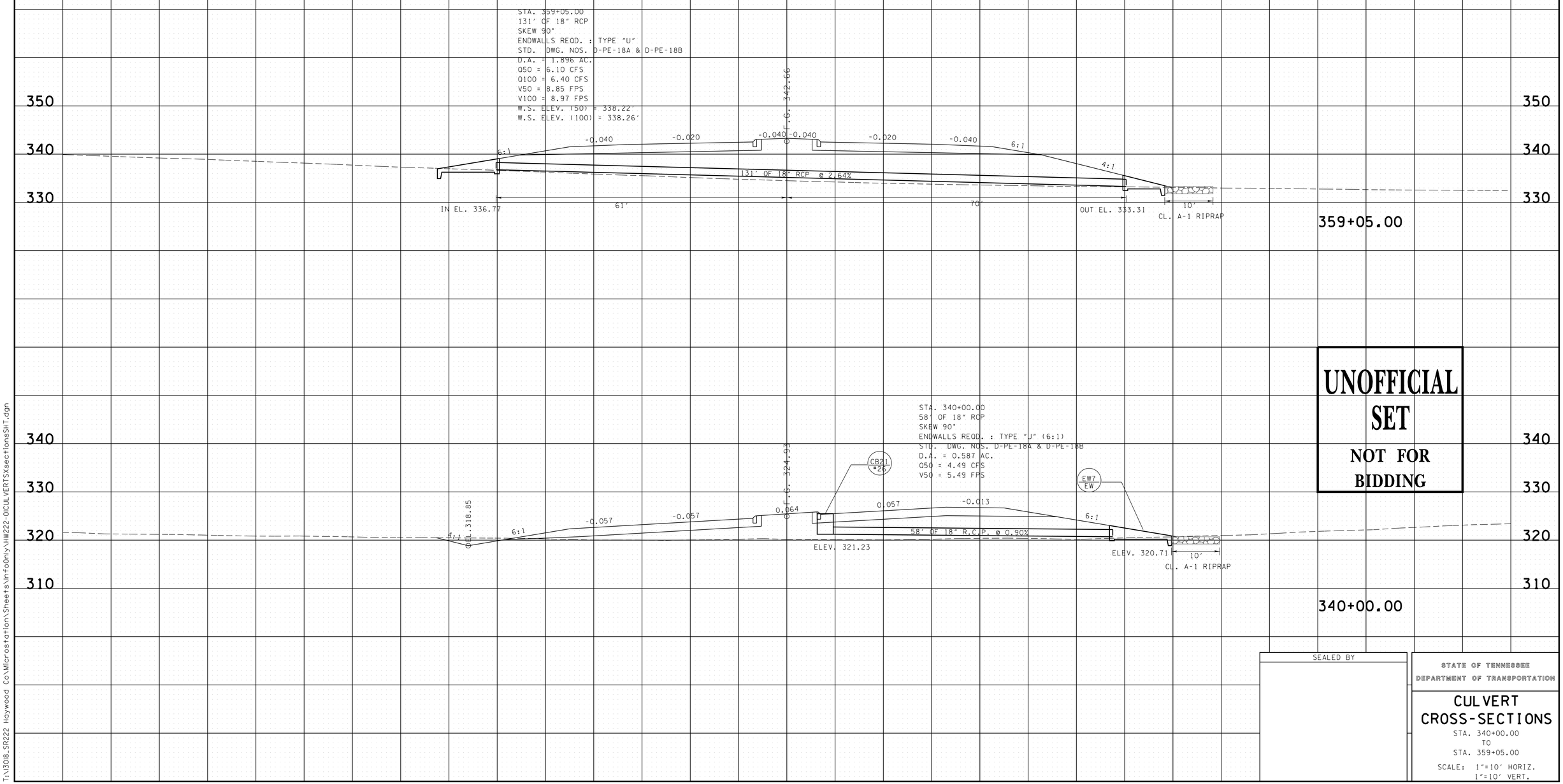
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	34



UNOFFICIAL SET

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CULVERT CROSS-SECTIONS

STA. 340+00.00
TO
STA. 359+05.00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	35

STATION	404+20.00
STRUCTURE	94' OF 3 @ 14' X 10' RCB
SKEW	60°LT.
DRAINAGE AREA	0.98 SQ. MI.
DESIGN DISCHARGE (Q100)	1070 CFS
Q100 BACKWATER	1.04' AT EL. 311.15
VELOCITY (Q100)	3.00 FT/S
DISCHARGE (Q500)	1300 CFS AT EL. 311.72
INLET ELEVATION	301.06'
OUTLET ELEVATION	300.64'
APPROACH OVERTOPPING ELV.	316.40'
STANDARD DRAWING NUMBERS	STD-17-100, STD-17-13
CLASS "A" CONCRETE	584 C.Y.
STEEL BAR REINFORCING	103,628 LB.
FOUNDATION FILL MATERIAL	100 C.Y.

NOTE:

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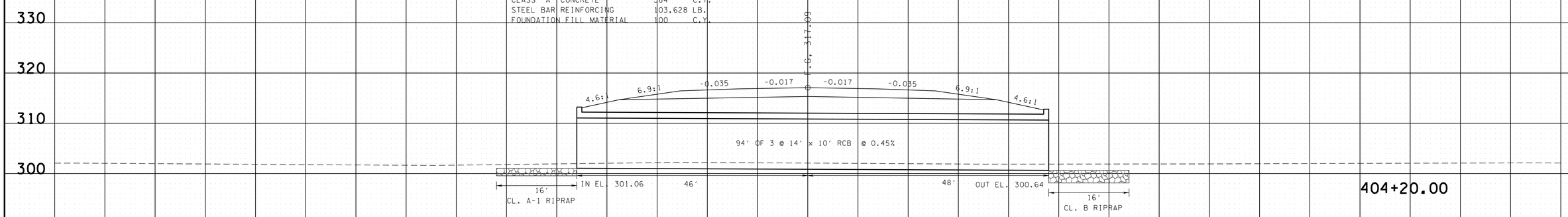
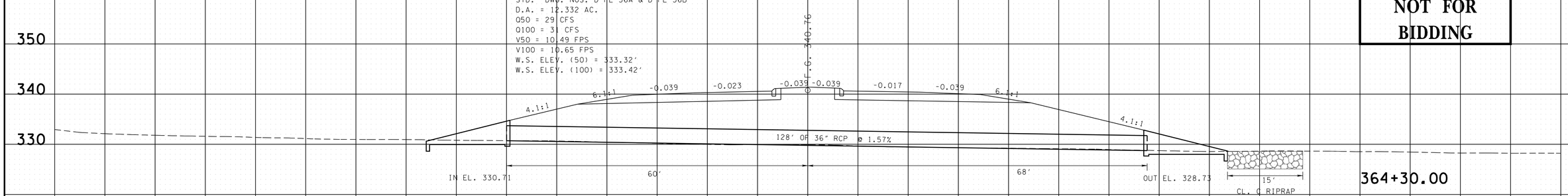


STA. 364+30.00
128' OF 36" RCP
SKEW 79° LT.
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-36A & D-PE-36B
D.A. = 12.332 AC.
Q50 = 29 CFS
Q100 = 31 CFS
V50 = 10.49 FPS
V100 = 10.65 FPS
W.S. ELEV. (50) = 333.32'
W.S. ELEV. (100) = 333.42'



UNOFFICIAL SET

NOT FOR BIDDING

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CULVERT CROSS-SECTIONS

STA. 364+30.00
TO
STA. 404+20.00

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

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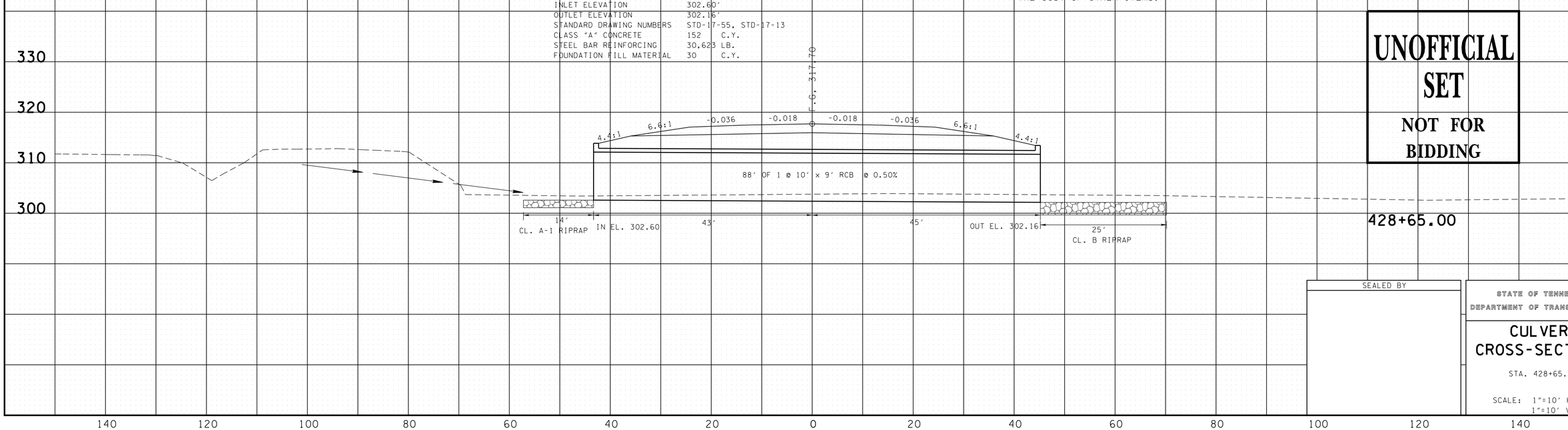
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.OW.	2014	38016-2206-04	36

STATION	428+65.00
STRUCTURE	88' OF 10' X 9' RCB
SKEW	65° RT.
DRAINAGE AREA	191.875 AC.
DESIGN DISCHARGE (Q50)	292 CFS
DESIGN DISCHARGE (Q100)	315 CFS
Q50 HEADWATER ELEV.	309.39'
Q100 HEADWATER ELEV.	309.61'
VELOCITY (Q50)	5.12 FT/S
VELOCITY (Q100)	5.37 FT/S
INLET ELEVATION	302.60'
OUTLET ELEVATION	302.16'
STANDARD DRAWING NUMBERS	STD-17-55, STD-17-13
CLASS "A" CONCRETE	152 C.Y.
STEEL BAR REINFORCING	30,623 LB.
FOUNDATION FILL MATERIAL	30 C.Y.

NOTE:

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.



UNOFFICIAL SET

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CULVERT CROSS-SECTIONS

STA. 428+65.00

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

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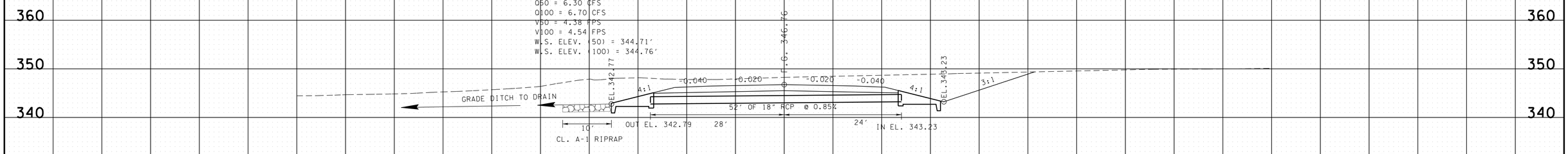
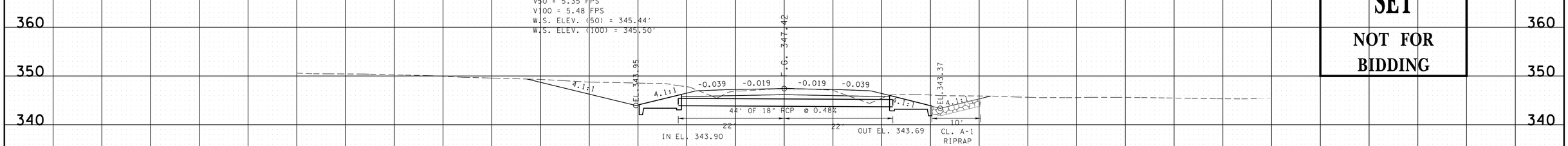
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-1206-04	37

STA. 12+82.00
52' OF 18" RCP
SKEW 82°22'00"
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-18A & D-PE-18B
D.A. = 1.170 AC.
Q50 = 6.30 CFS
Q100 = 6.70 CFS
V50 = 4.38 FPS
V100 = 4.54 FPS
W.S. ELEV. (50) = 344.71'
W.S. ELEV. (100) = 344.76'



12+82.00
CONNECTOR 1

STA. 7+07.00
44' OF 18" RCP
SKEW 76°10'13"
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-18A & D-PE-18B
D.A. = 1.839 AC.
Q50 = 6.71 CFS
Q100 = 7.10 CFS
V50 = 5.35 FPS
V100 = 5.48 FPS
W.S. ELEV. (50) = 345.44'
W.S. ELEV. (100) = 345.50'



7+07.00
THORPE DR

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CULVERT
CROSS-SECTIONS
THORPE STA. 7+07.00
AND
CONNECTOR 1 STA. 7+07.00

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

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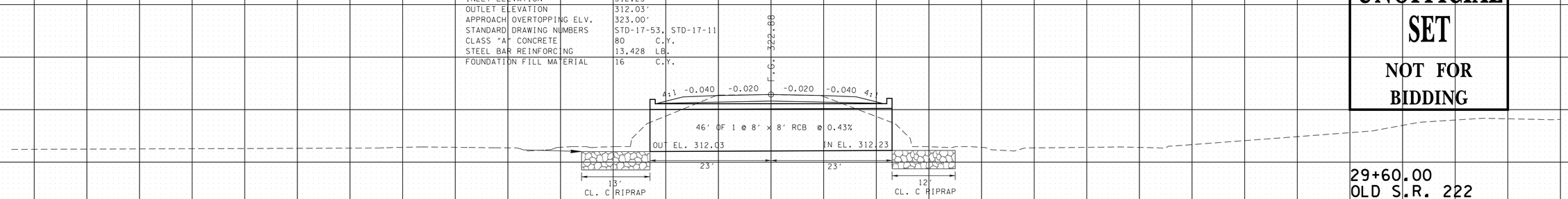
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	38

STATION	29+60.00
STRUCTURE	46' OF 8' X 8' RCB
SKEW	90°
DRAINAGE AREA	1.86 SQ. MI.
DESIGN DISCHARGE (Q100)	470.700 CFS
TOTAL DESIGN DISCHARGE(Q100)	1480 CFS
Q100 BACKWATER	2.71' AT EL. 321.21
VELOCITY (Q100)	8.76 FT/S
DISCHARGE (Q500)	571.30 CFS AT EL. 322.33
INLET ELEVATION	312.23'
OUTLET ELEVATION	312.03'
APPROACH OVERTOPPING ELV.	323.00'
STANDARD DRAWING NUMBERS	STD-17-53, STD-17-11
CLASS "A" CONCRETE	80 C.Y.
STEEL BAR REINFORCING	13,428 LB.
FOUNDATION FILL MATERIAL	16 C.Y.



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29+60.00
OLD S.R. 222

NOTE:

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.

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CULVERT CROSS-SECTIONS

OLD S.R. 222 STA. 29+60.00

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

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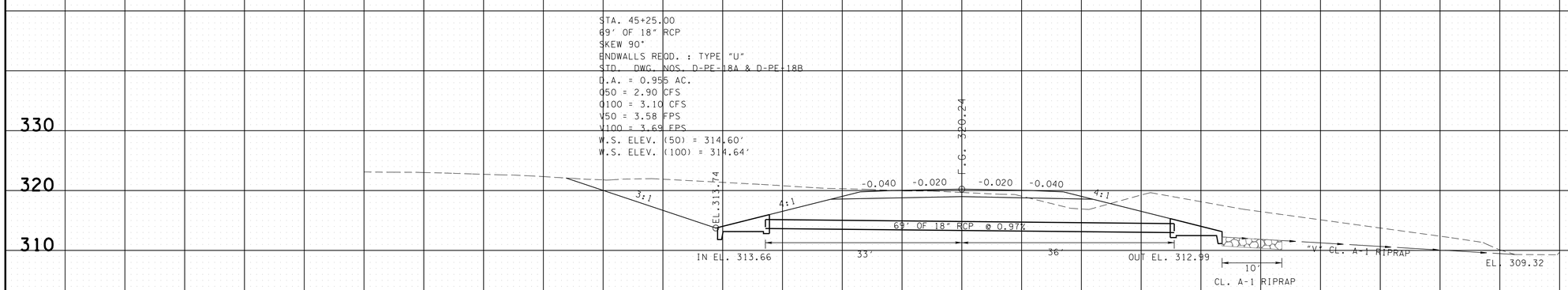
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	39

REV. 08-12-14: REMOVED CROSS-SECTION FOR TRUSS RD. CUL-DE-SAC.

STA. 45+25.00
69' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PE-18A & D-PE-18B
D.A. = 0.955 AC.
Q50 = 2.90 CFS
Q100 = 3.10 CFS
V50 = 3.58 FPS
V100 = 3.69 FPS
W.S. ELEV. (50) = 314.60'
W.S. ELEV. (100) = 314.64'



UNOFFICIAL SET
NOT FOR BIDDING

45+25.00
CONNECTOR 2

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CULVERT CROSS-SECTIONS

CONNECTOR 2 STA. 45+25.00
AND
TRUSS CUL-DE-SAC

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	40
CONST.	2014	38016-3206-04	40

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
	* ESF * ESF * ESF *	ENHANCED SILT FENCE	EC-STR-3D
		ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
2		ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
2		ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
		SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
	** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
		CULVERT PROTECTION (TYPE 1)	EC-STR-11
		CULVERT PROTECTION (TYPE 2)	EC-STR-11A
	E	CATCH BASIN PROTECTION (TYPE E)	EC-STR-19
2	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
		RIPRAP	EC-STR-27
		TEMPORARY BERM	EC-STR-27
		TEMPORARY SLOPE DRAIN	EC-STR-27
		TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
1	2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
	* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1

1 INSTALL CURB INLET PROTECTION (TYPE 2) AT THE DIRECTION OF THE TDOT ENGINEER, AFTER C&G HAS BEEN CONSTRUCTED.

2 TO BE ADDED AS NEEDED AT THE DIRECTION OF THE TDOT ENGINEER.

EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	QUANTITY Phase 1	Phase 2	Phase 3
	203-01	ROAD AND DRAINAGE EXCAVATION (UNCL.)	C.Y.	19,200	3,600	3,600	12,000
	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	1,900	-		1,900
	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	200			200
	209-03.21	FILTER SOCK (12 INCH)	L.F.	10,000	-	-	10,000
2	209-03.23	FILTER SOCK (24 INCH)	L.F.	9,600	-	2,800	6,800
	209-05	SEDIMENT REMOVAL	C.Y.	2,500	500	1,000	1,000
	209-06	BALED HAY OR STRAW EROSION CHECKS	BALE	9,000	3,000	3,000	3,000
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	15,900	6,300	6,600	3,000
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	56,000	22,000	17,000	17,000
	209-08.07	ROCK CHECK DAM PER	EACH	8	-	4	4
3	209-08.08	ENHANCED ROCK CHECK DAM	EACH	116	12	72	32
	209-09.01	SANDBAGS	BAG	17,000	-	17,000	-
	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	20		20	-
	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	22	-	-	22
1	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	1,000	-	-	-
1	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	3,000	-	600	-
	209-40.34	CATCH BASIN PROTECTION (TYPE E)	EACH	22	-	22	-
	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	2,200	-	2,200	-
4	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	400	100	150	150
	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	1,100	350	350	400
5	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	6,380	230	5,800	350
	709-05.07	MACHINED RIP-RAP (CLASS A-2)	TON	40	40	-	-
6	740-10.03	GEOTEXTILE (TYPE III) EROSION CONTROL	S.Y.	12,500	1,000	10,800	700
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1,000	200	400	400
1	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	2,500	-	-	-

FOOTNOTES:

1 TO BE USED AS DIRECTED BY THE ENGINEER.
2 INCLUDES 5600 L.F. FOR CULVERT PROTECTION (TYPE 2).
3 INCLUDING QUANTITIES FOR USE AT CULVERT PROTECTION (TYPE 2), WHERE APPLICABLE.
4 INCLUDES 175 TONS FOR CULVERT PROTECTION (TYPE 1).
5 INCLUDES 630 TONS FOR CULVERT PROTECTION (TYPE 1).
6 INCLUDES 1595 S.Y. FOR CULVERT PROTECTION (TYPE 1).

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	41
CONST.	2014	38016-3206-04	41

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 IS 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 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 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 14 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-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(7) 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 AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(8) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(9) 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.

UTILITY RELOCATION

(10) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(11) SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY

(12) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

(13) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

(14) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.

(15) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(16) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(17) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

(18) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(19) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

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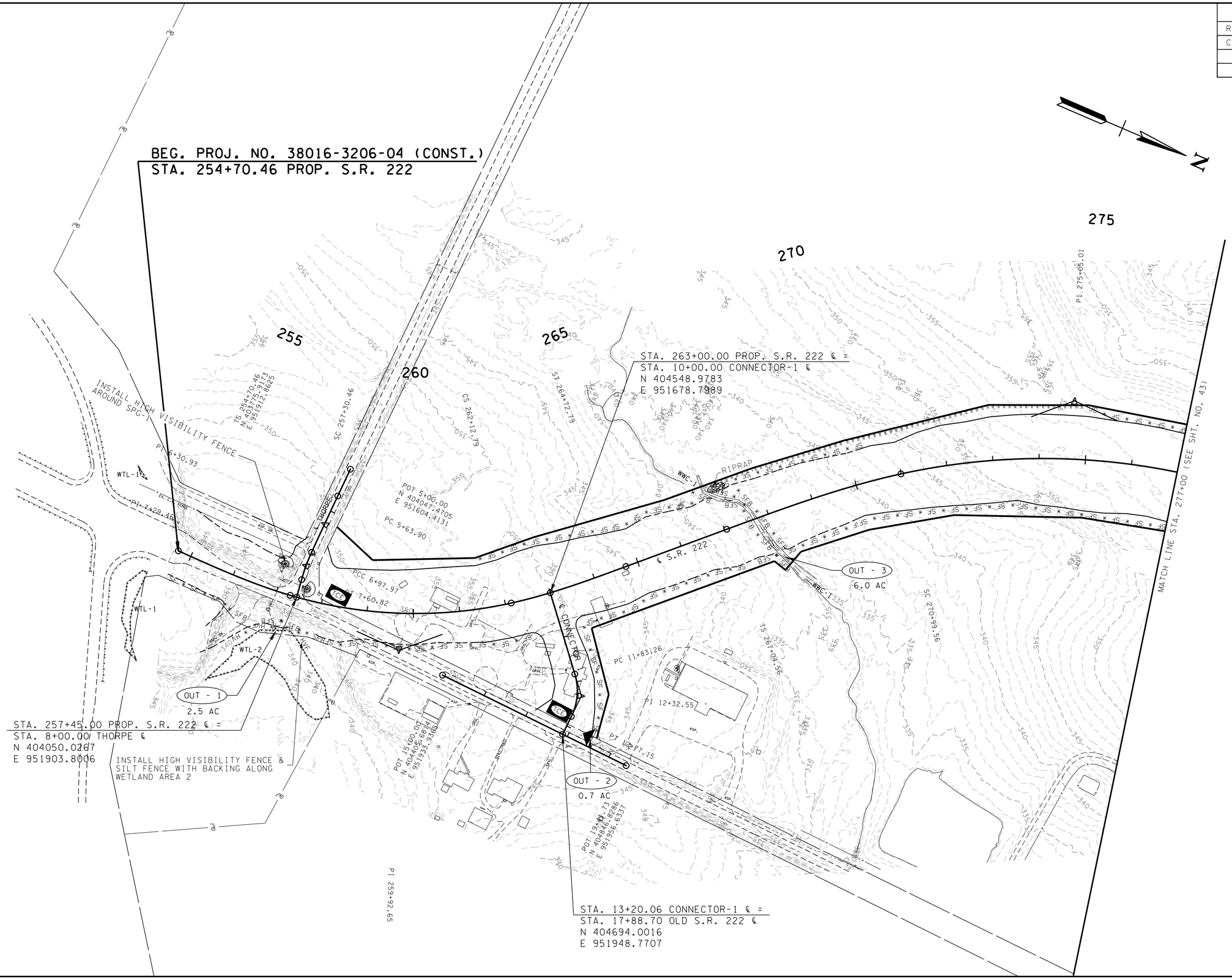
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	42
CONST.	2014	38016-3206-04	42



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PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEG. PROJ. TO STA. 277+00

SCALE: 1"=100'

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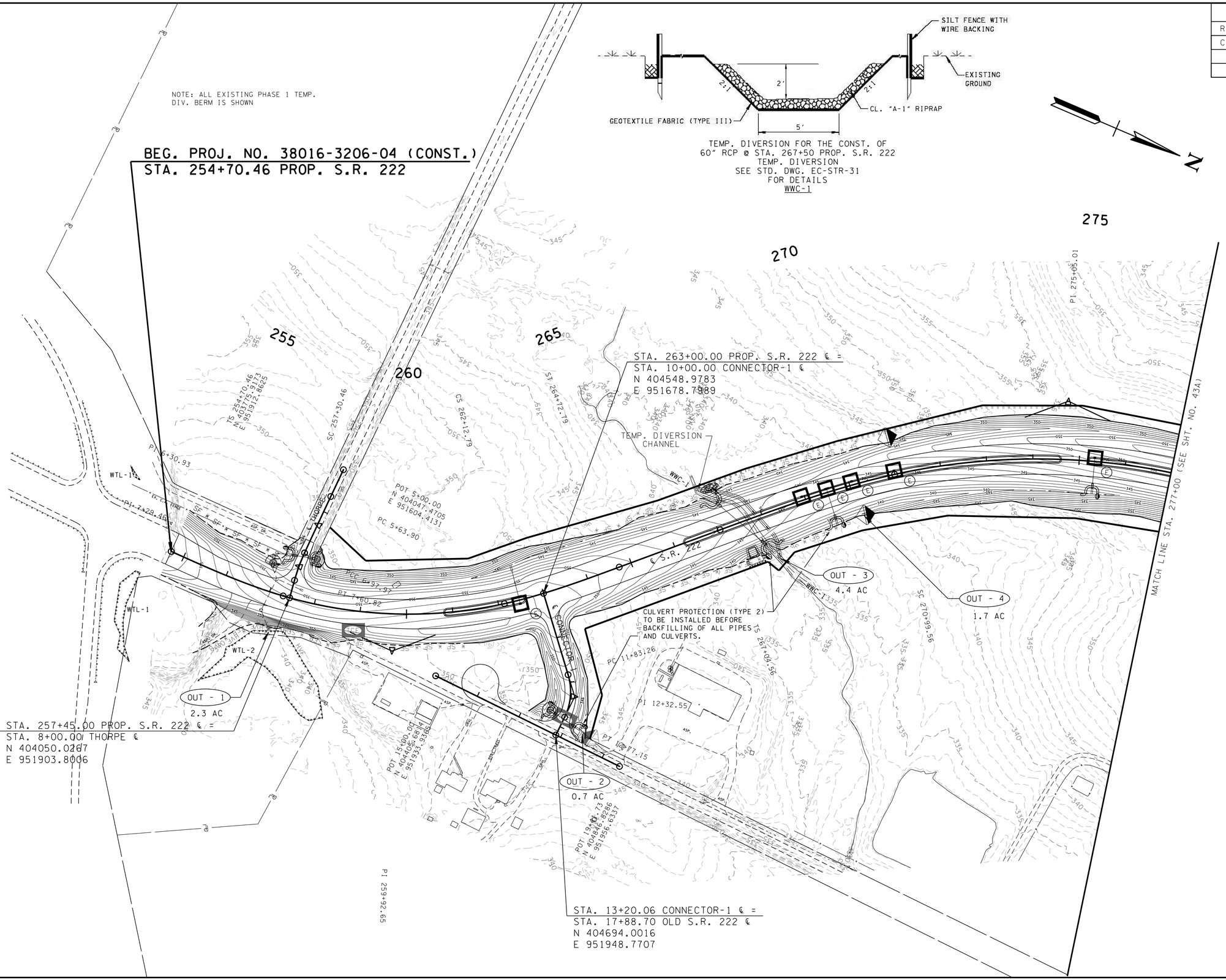
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	42A
CONST.	2014	38016-3206-04	42A



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PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEG. PROJ. TO STA. 277+00

SCALE: 1"=100'

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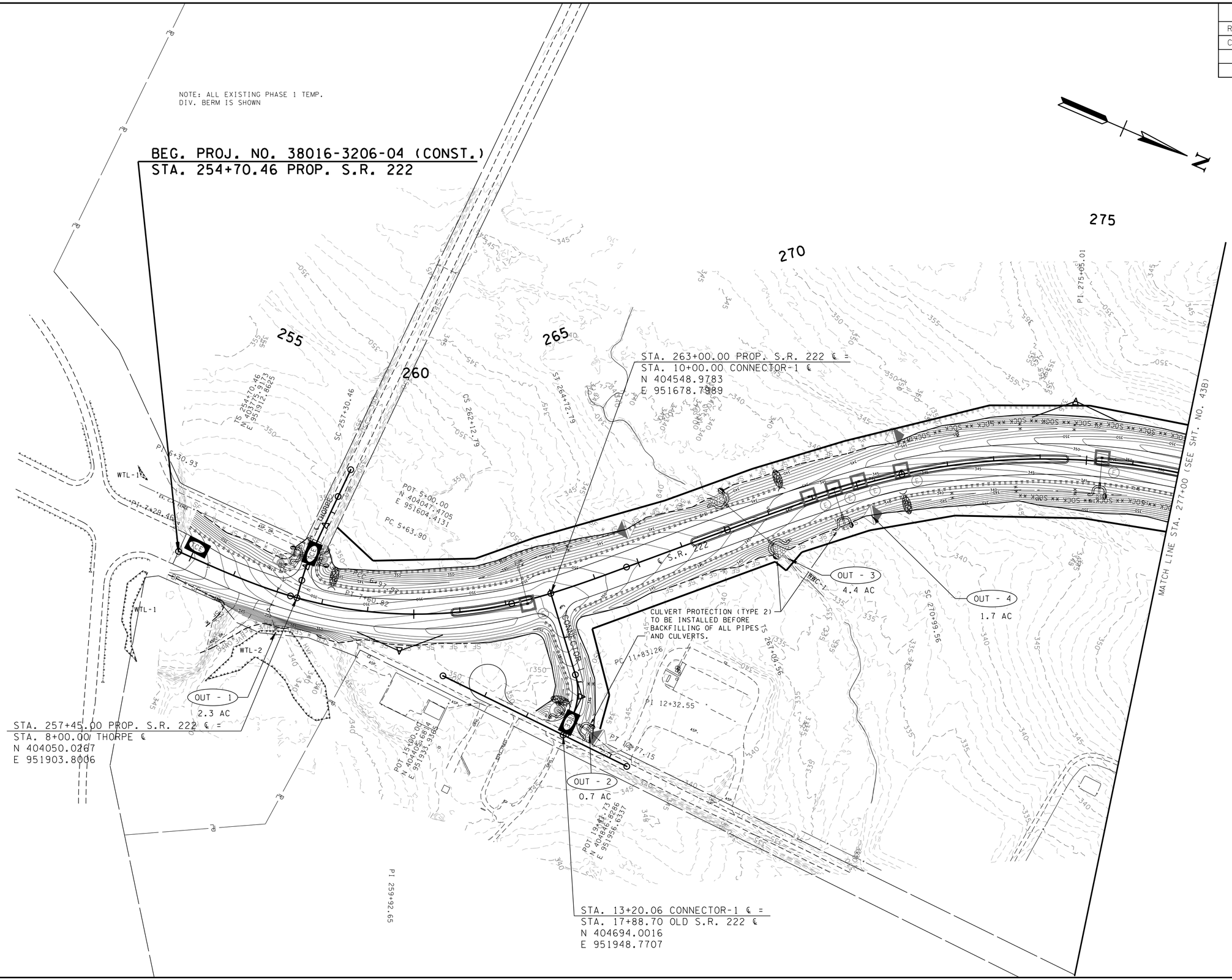
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	42B
CONST.	2014	38016-3206-04	42B



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PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEG. PROJ. TO STA. 277+00

SCALE: 1"=100'

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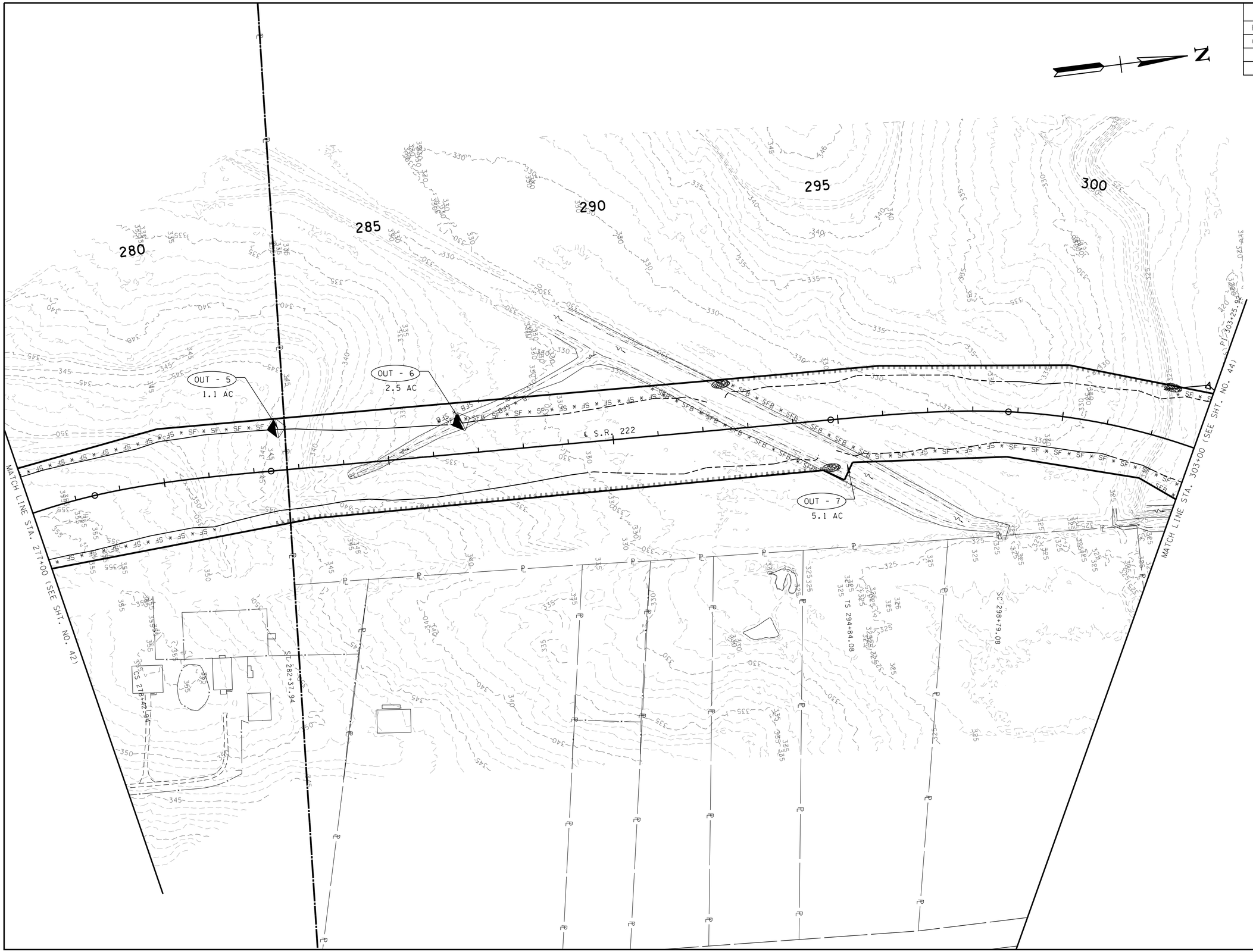
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	43
CONST.	2014	38016-3206-04	43



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PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 277+00 TO STA. 303+00

SCALE: 1"=100'

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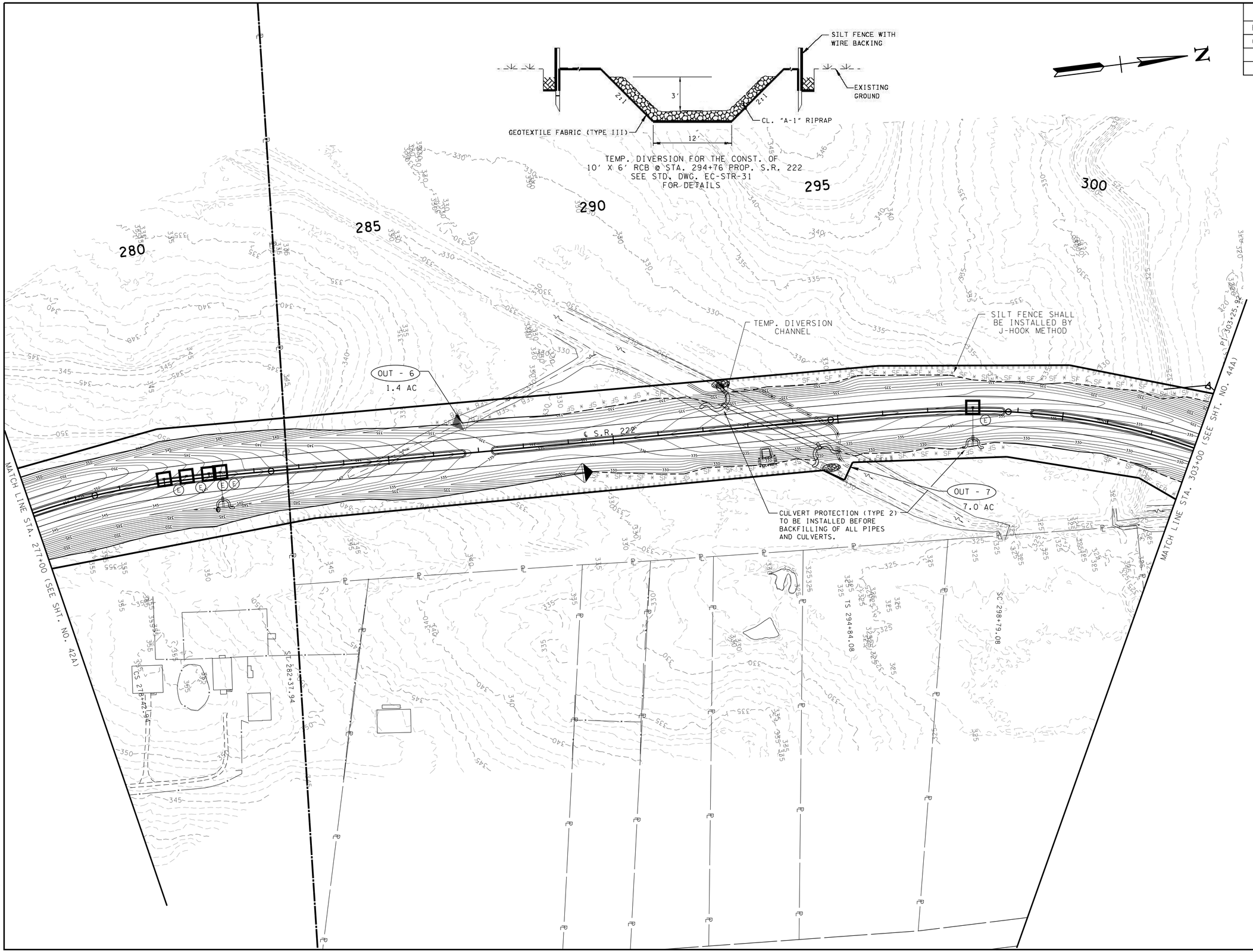
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	43A
CONST.	2014	38016-3206-04	43A



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PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 277+00 TO STA. 303+00

SCALE: 1"=100'

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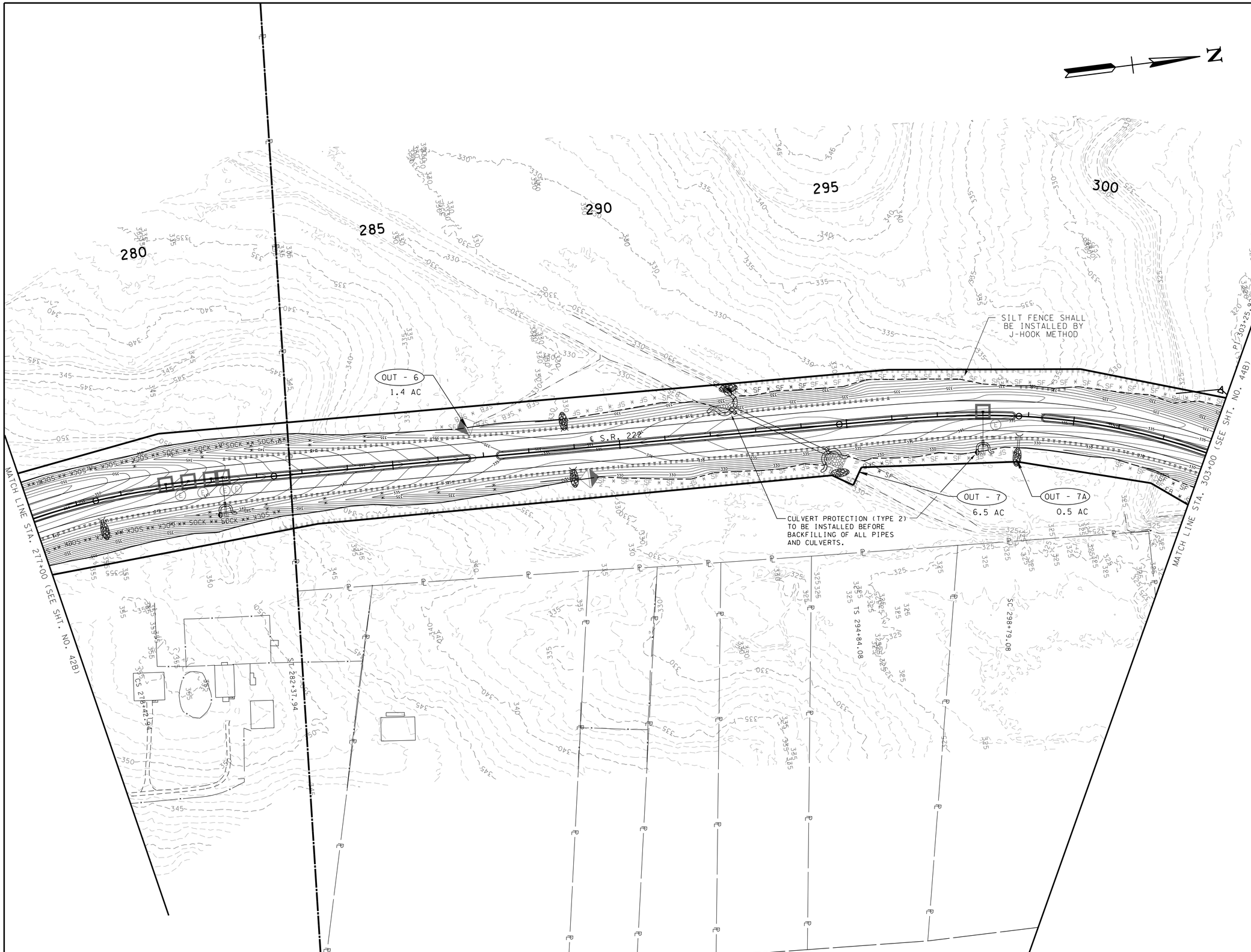
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\043A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	43B
CONST.	2014	38016-3206-04	43B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

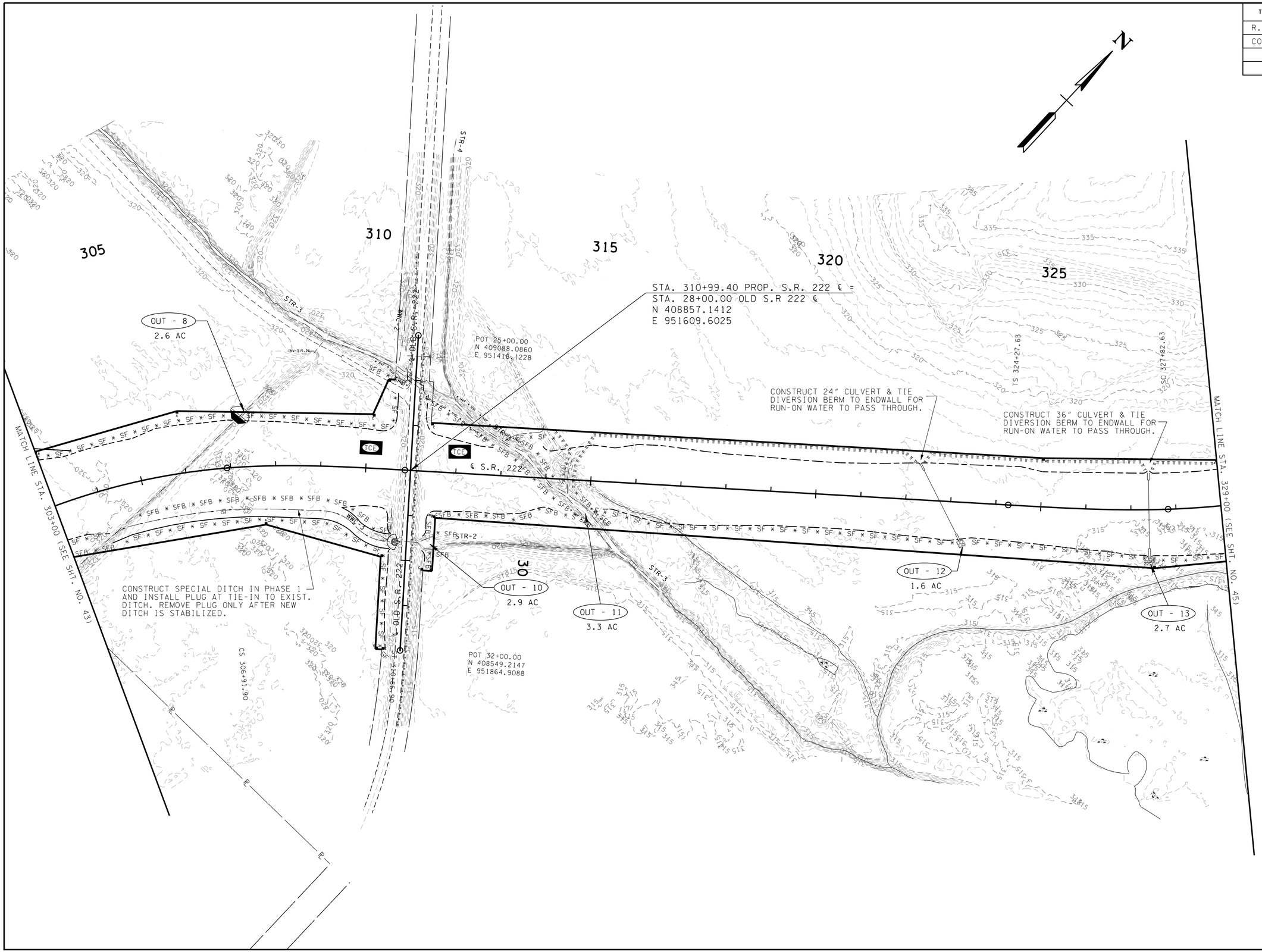
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 277+00 TO STA. 303+00

SCALE: 1"=100'

8/12/2014 4:38:55 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\043B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	44
CONST.	2014	38016-3206-04	44



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

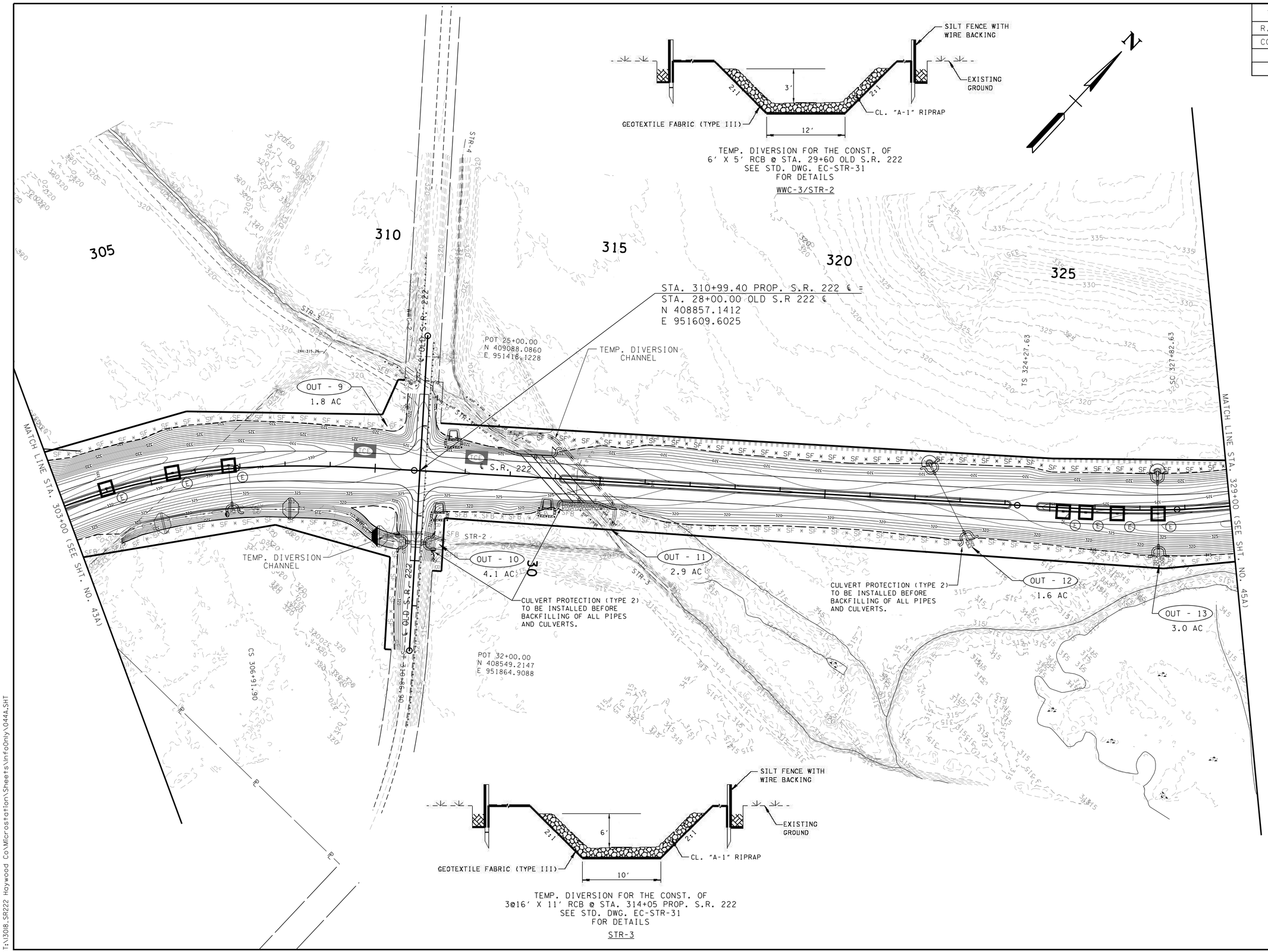
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 303+00 TO STA. 329+00

SCALE: 1"=100'

8/12/2014 4:38:57 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\Infoonly\044.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	44A
CONST.	2014	38016-3206-04	44A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 303+00 TO STA. 329+00

SCALE: 1"=100'

8/12/2014 4:39:17 PM
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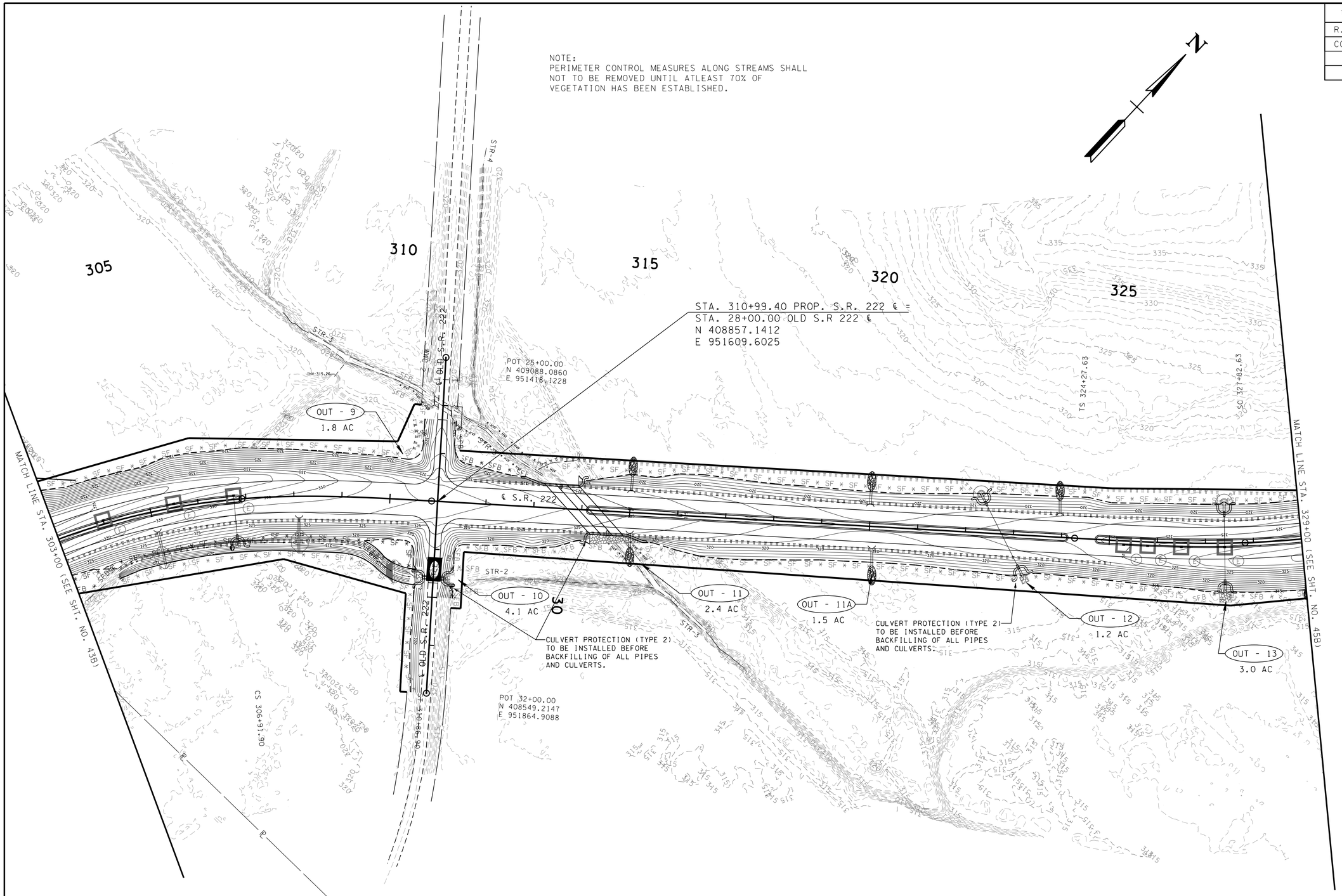
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	44B
CONST.	2014	38016-3206-04	44B

NOTE:
PERIMETER CONTROL MEASURES ALONG STREAMS SHALL NOT TO BE REMOVED UNTIL ATLEAST 70% OF VEGETATION HAS BEEN ESTABLISHED.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

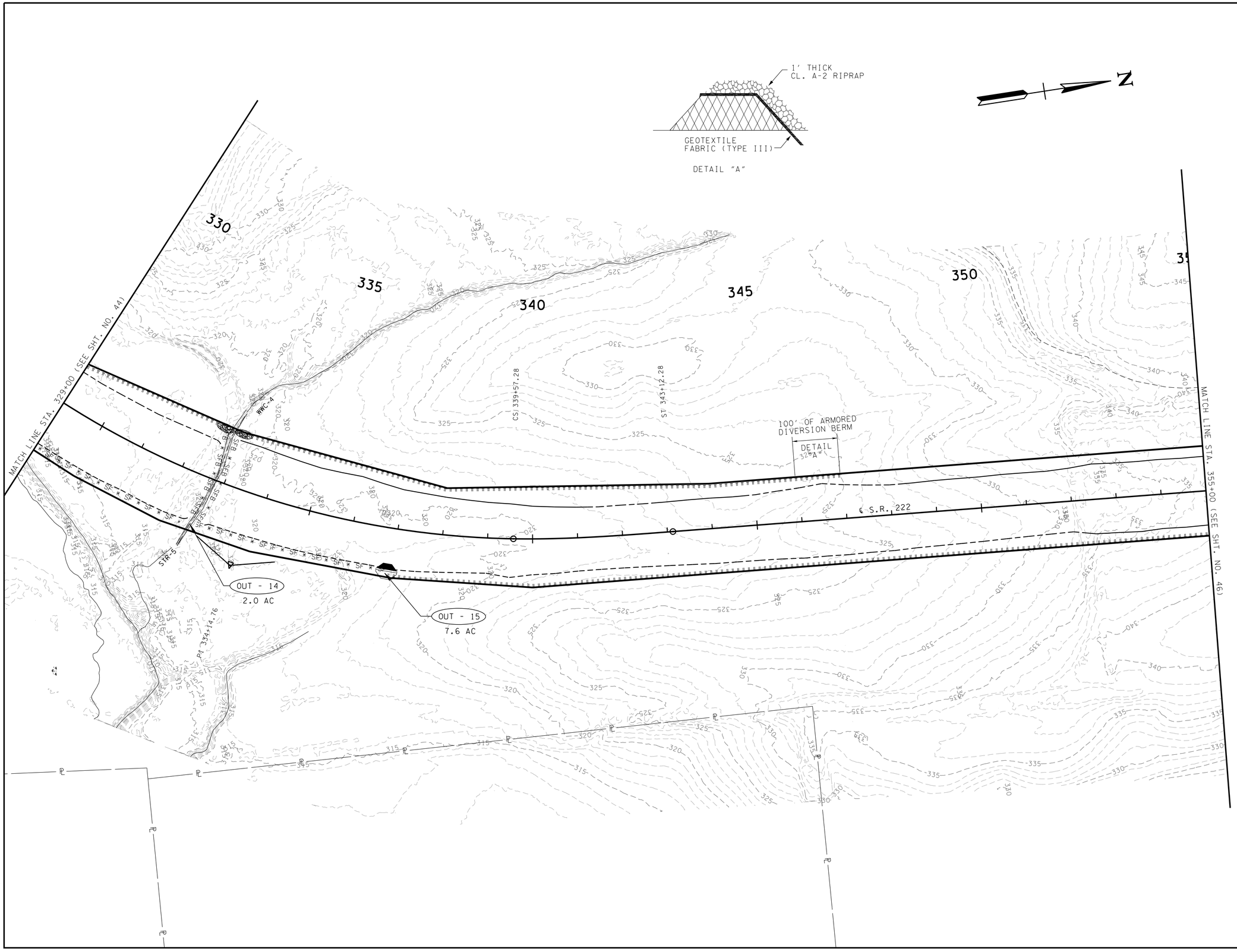
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 303+00 TO STA. 329+00

SCALE: 1"=100'

8/12/2014 4:39:19 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\044B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	45
CONST.	2014	38016-3206-04	45



UNOFFICIAL SET

NOT FOR BIDDING

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PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

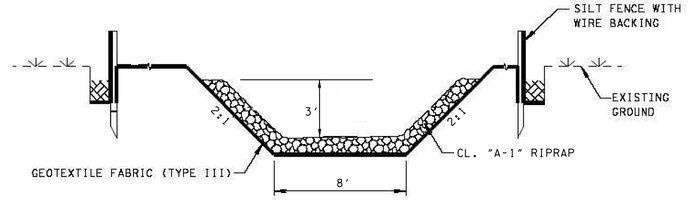
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 329+00 TO STA. 355+00

SCALE: 1"=100'

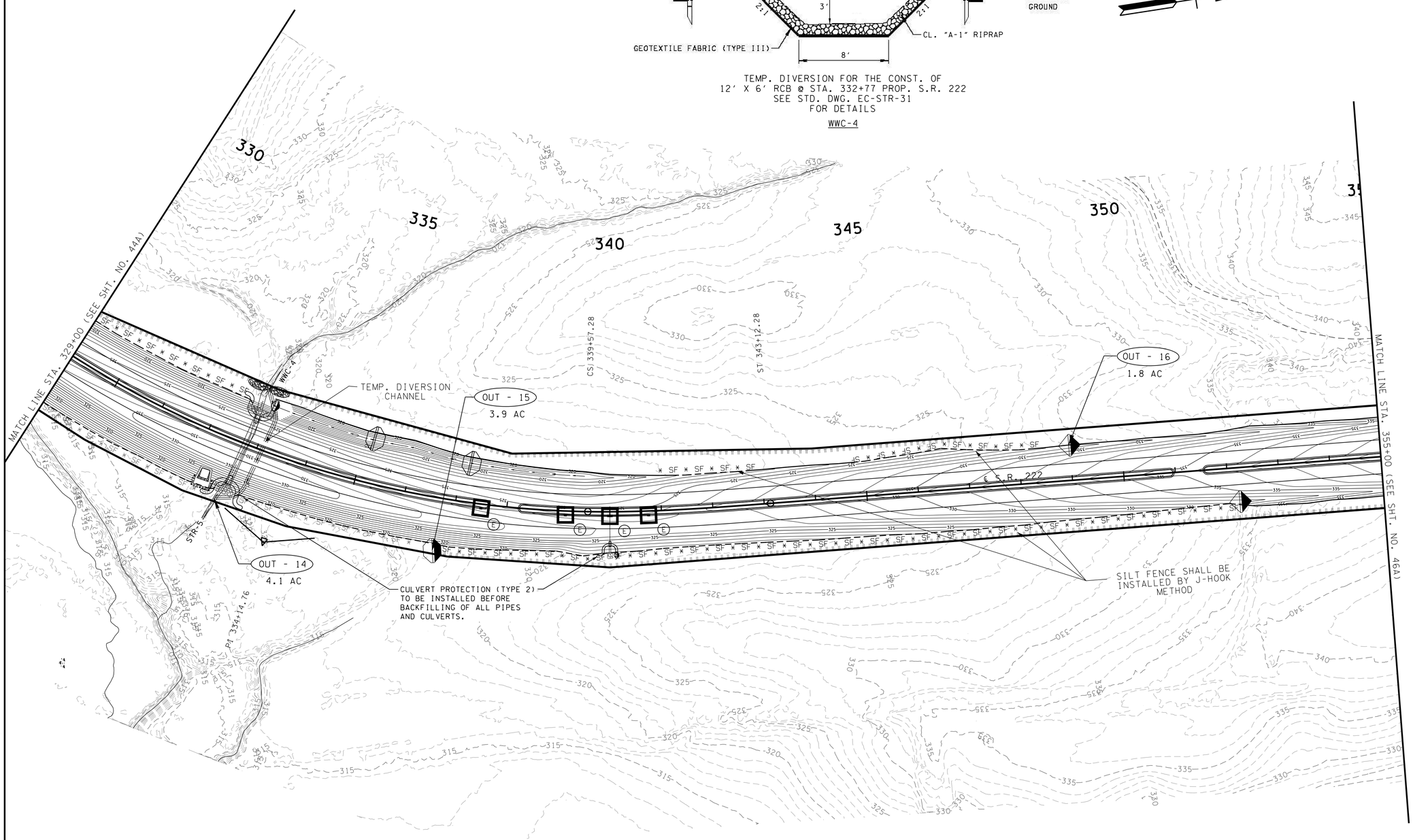
8/12/2014 4:39:22 PM
T:\38018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\045.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	45A
CONST.	2014	38016-3206-04	45A



TEMP. DIVERSION FOR THE CONST. OF
12' X 6' RCB @ STA. 332+77 PROP. S.R. 222
SEE STD. DWG. EC-STR-31
FOR DETAILS

WWC-4



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

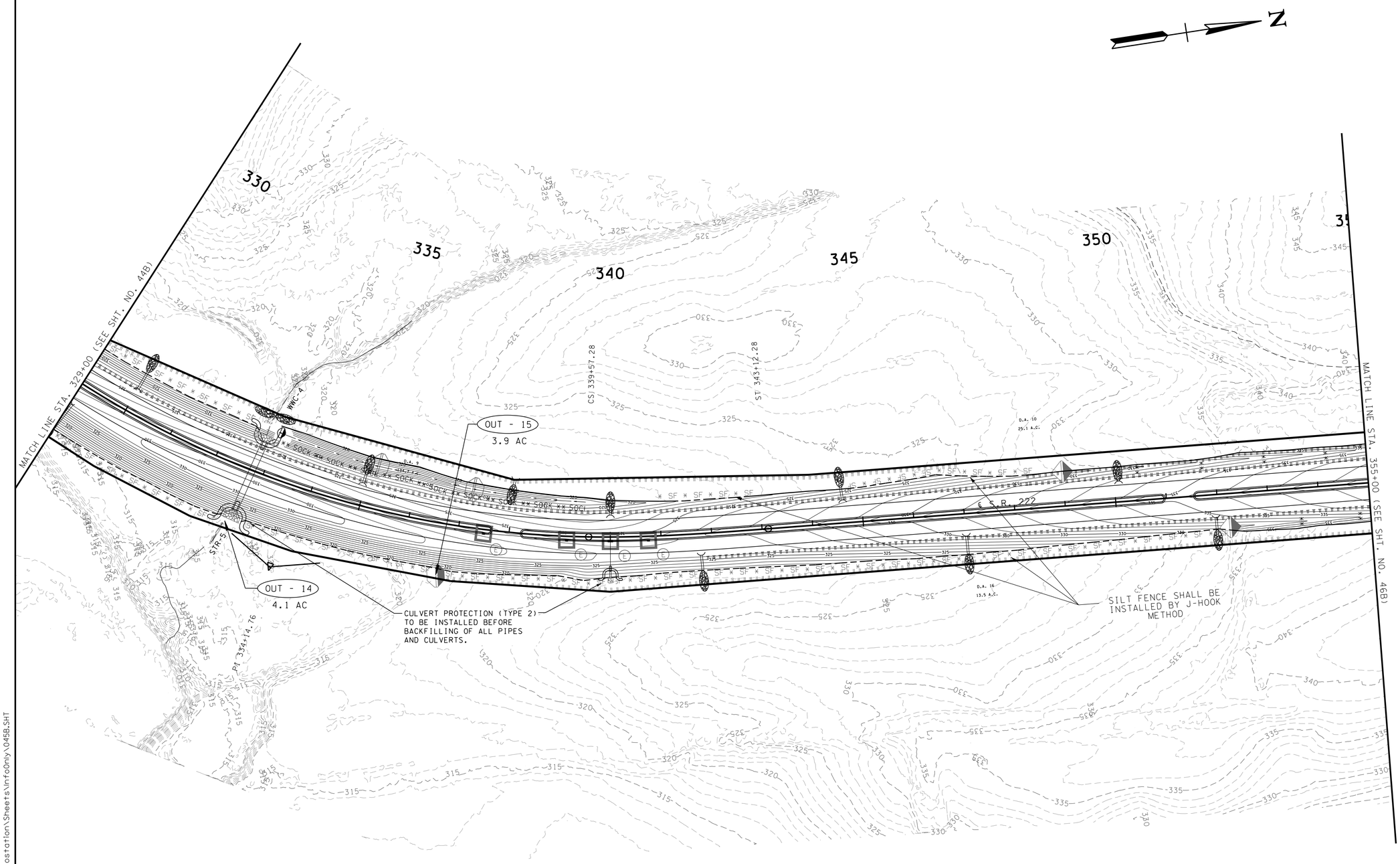
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 329+00 TO STA. 355+00

SCALE: 1"=100'

8/12/2014 4:39:53 PM
T:\38016_SR222 Haywood Co\Microstation\Sheets\InfoOnly\045A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	45B
CONST.	2014	38016-3206-04	45B



UNOFFICIAL SET

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PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

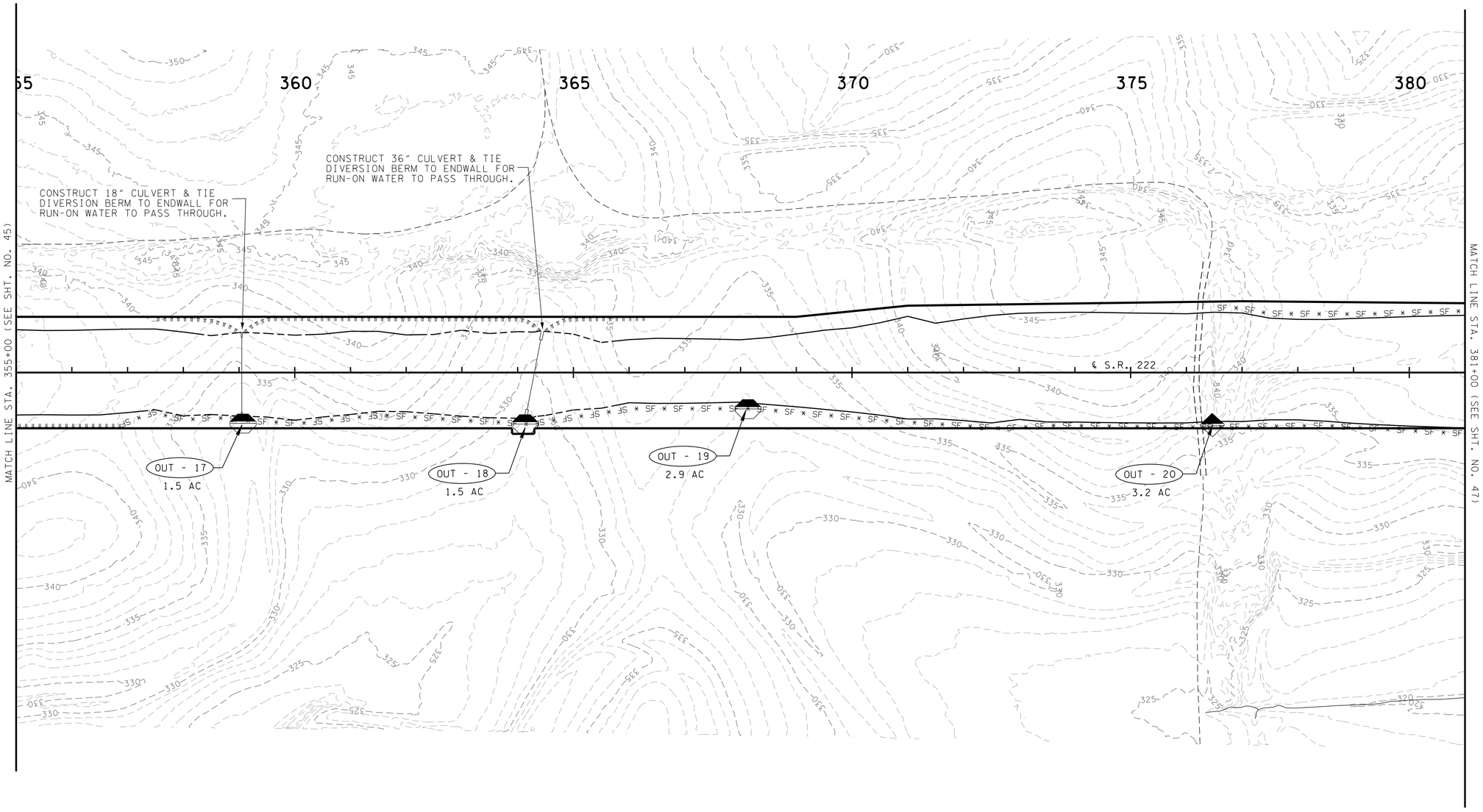
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 329+00 TO STA. 355+00

SCALE: 1"=100'

8/12/2014 4:39:55 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\045B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	46
CONST.	2014	38016-3206-04	46



UNOFFICIAL SET

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PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

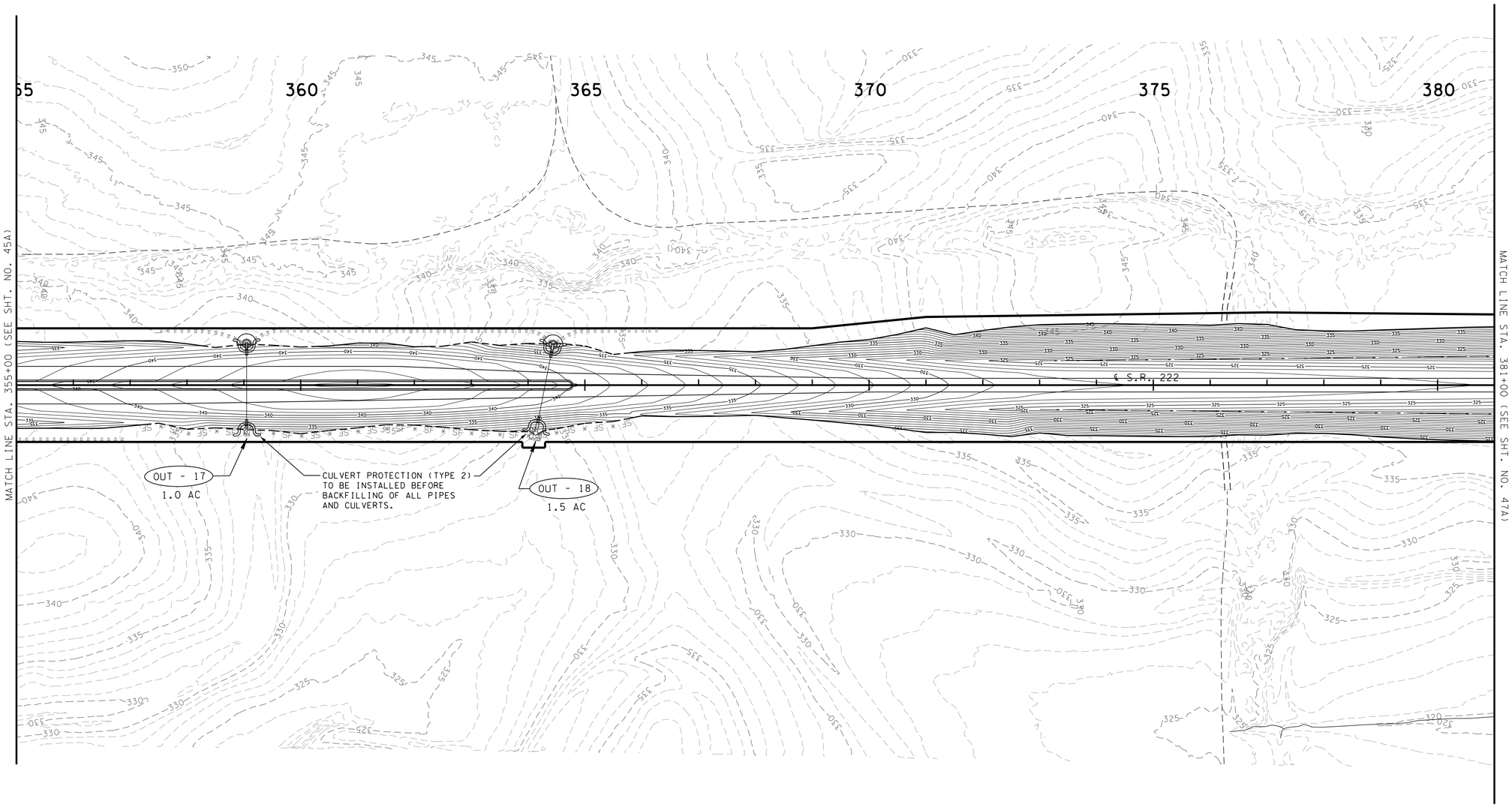
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 355+00 TO STA. 407+00

SCALE: 1"=100'

8/12/2014 4:39:57 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\046.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	46A
CONST.	2014	38016-3206-04	46A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

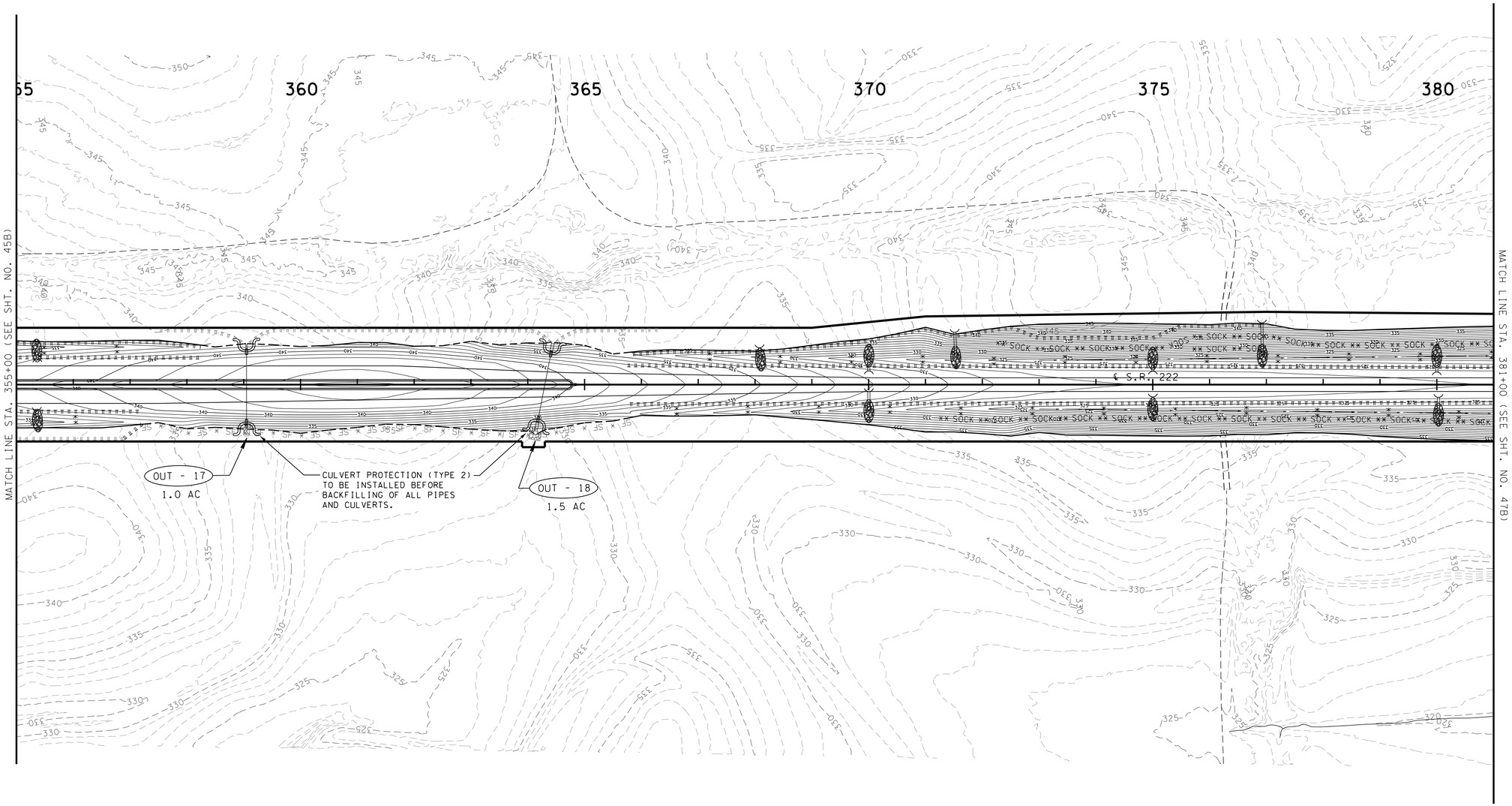
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 355+00 TO STA. 407+00

SCALE: 1"=100'

8/12/2014 4:39:59 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\046A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	46B
CONST.	2014	38016-3206-04	46B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

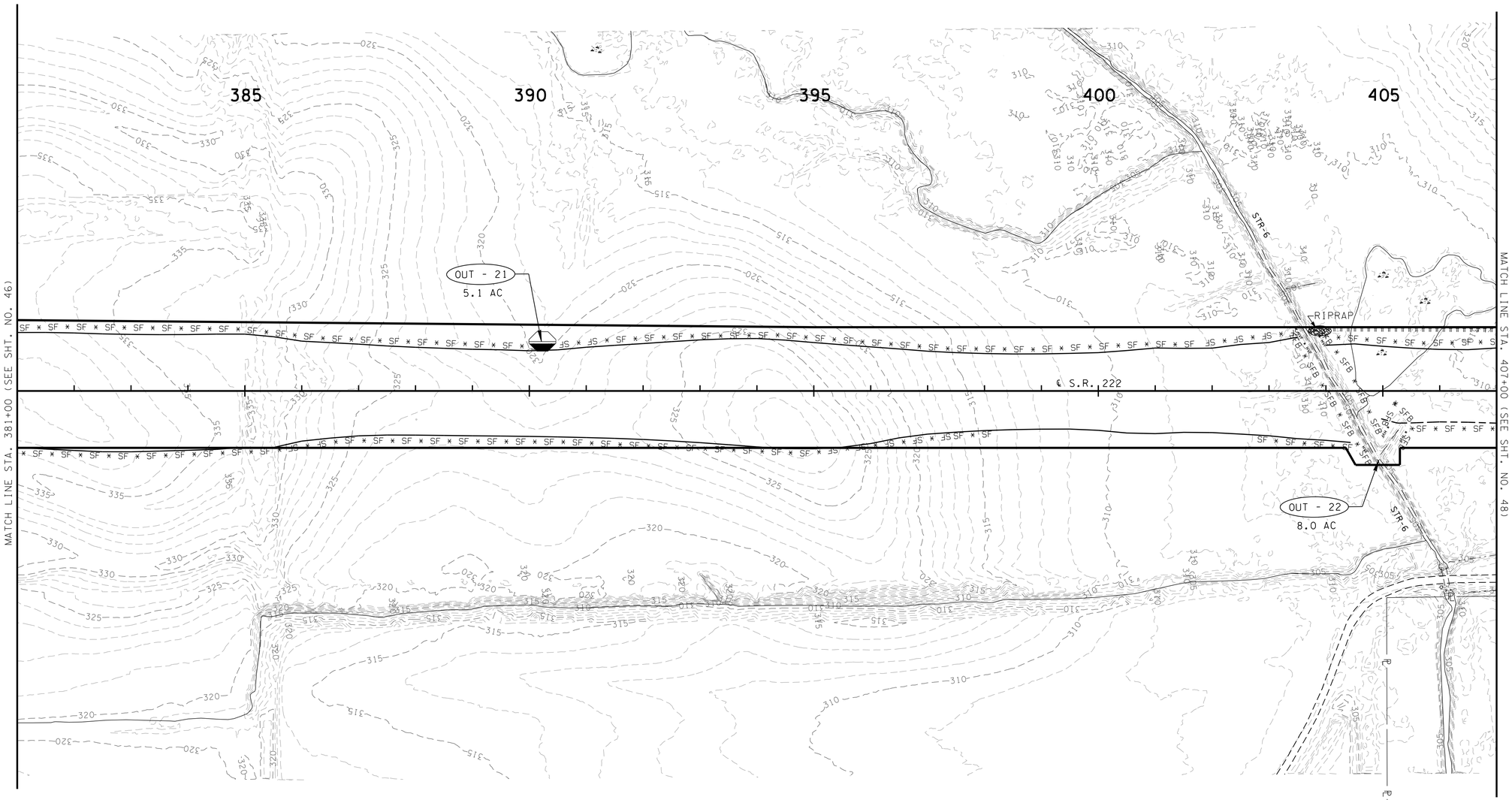
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 355+00 TO STA. 407+00

SCALE: 1"=100'

8/12/2014 4:40:01 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\046B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	47
CONST.	2014	38016-3206-04	47



UNOFFICIAL SET

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SEALED BY

PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

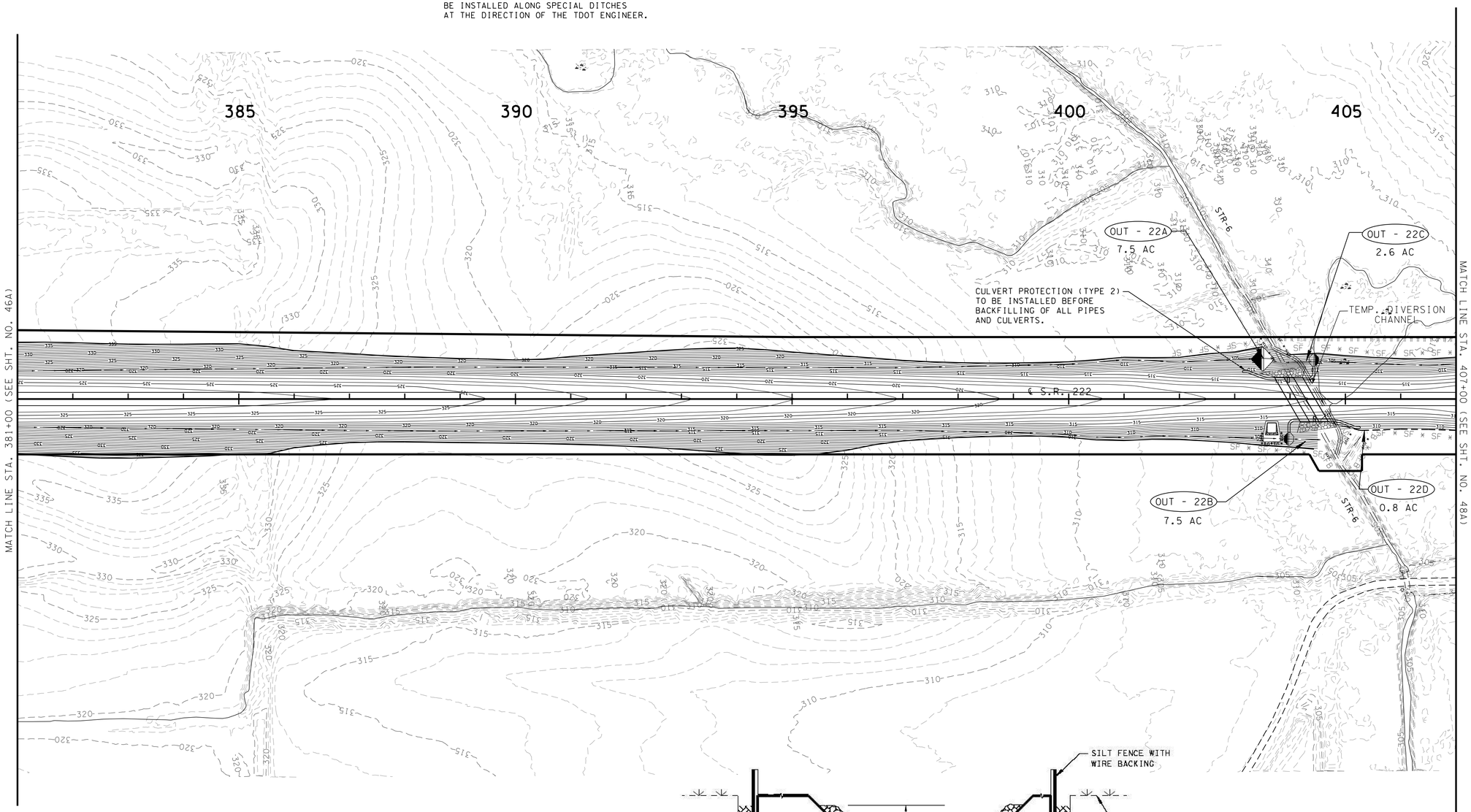
STA. 355+00 TO STA. 407+00

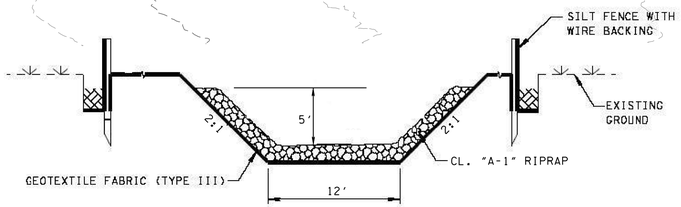
SCALE: 1"=100'

8/12/2014 4:40:03 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\047.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	47A
CONST.	2014	38016-3206-04	47A

NOTE:
ENHANCED ROCK CHECK DAM SHALL
BE INSTALLED ALONG SPECIAL DITCHES
AT THE DIRECTION OF THE TDOT ENGINEER.





TEMP. DIVERSION FOR THE CONST. OF
10' X 8' RCB @ STA. 404+20 PROP. S.R. 222
SEE STD. DWG. EC-STR-31
FOR DETAILS

STR-6

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

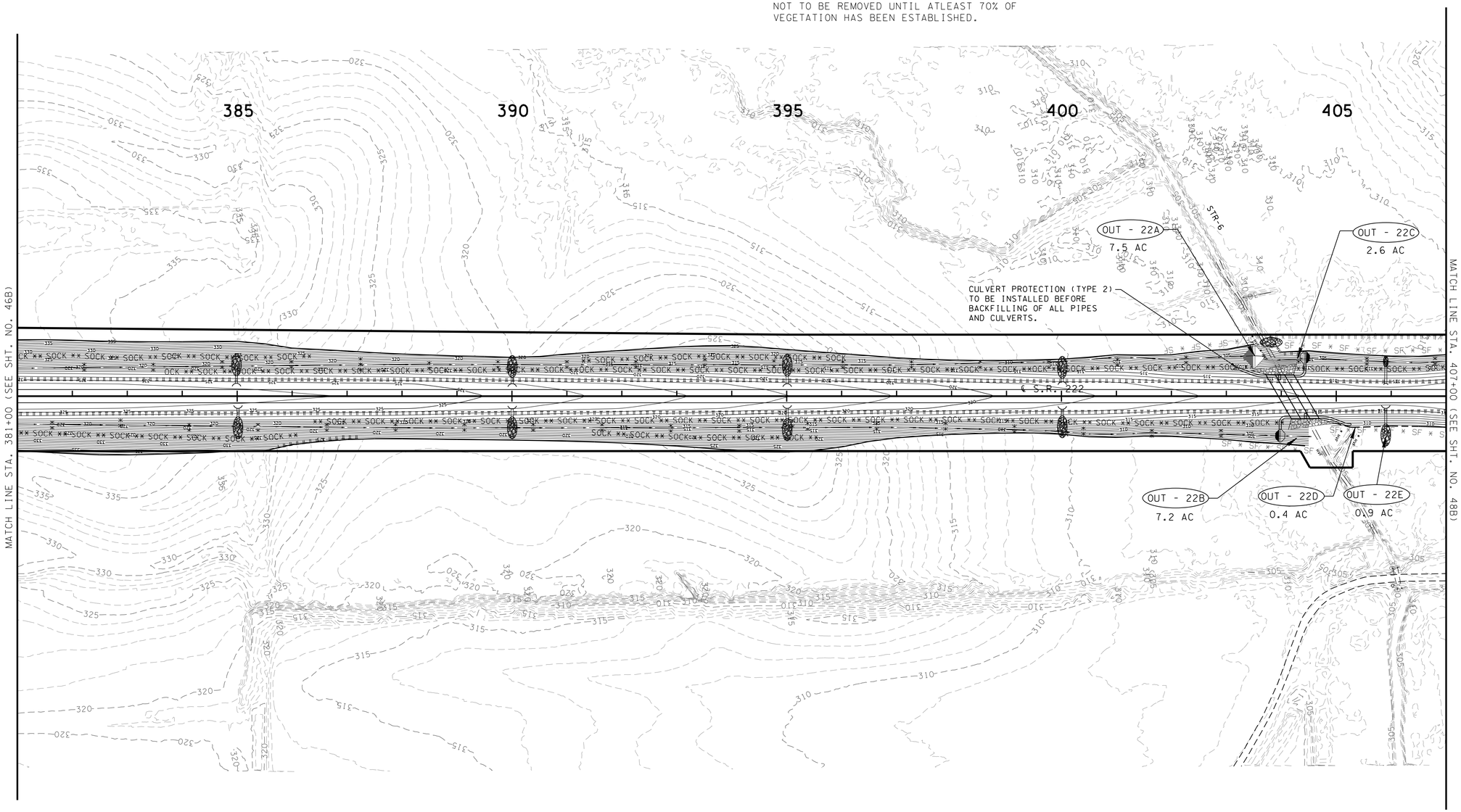
STA. 355+00 TO STA. 407+00

SCALE: 1"=100'

8/12/2014 4:40:13 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\047A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	47B
CONST.	2014	38016-3206-04	47B

NOTE:
PERIMETER CONTROL MEASURES ALONG STREAMS SHALL NOT TO BE REMOVED UNTIL ATLEAST 70% OF VEGETATION HAS BEEN ESTABLISHED.



UNOFFICIAL SET

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SEALED BY

PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

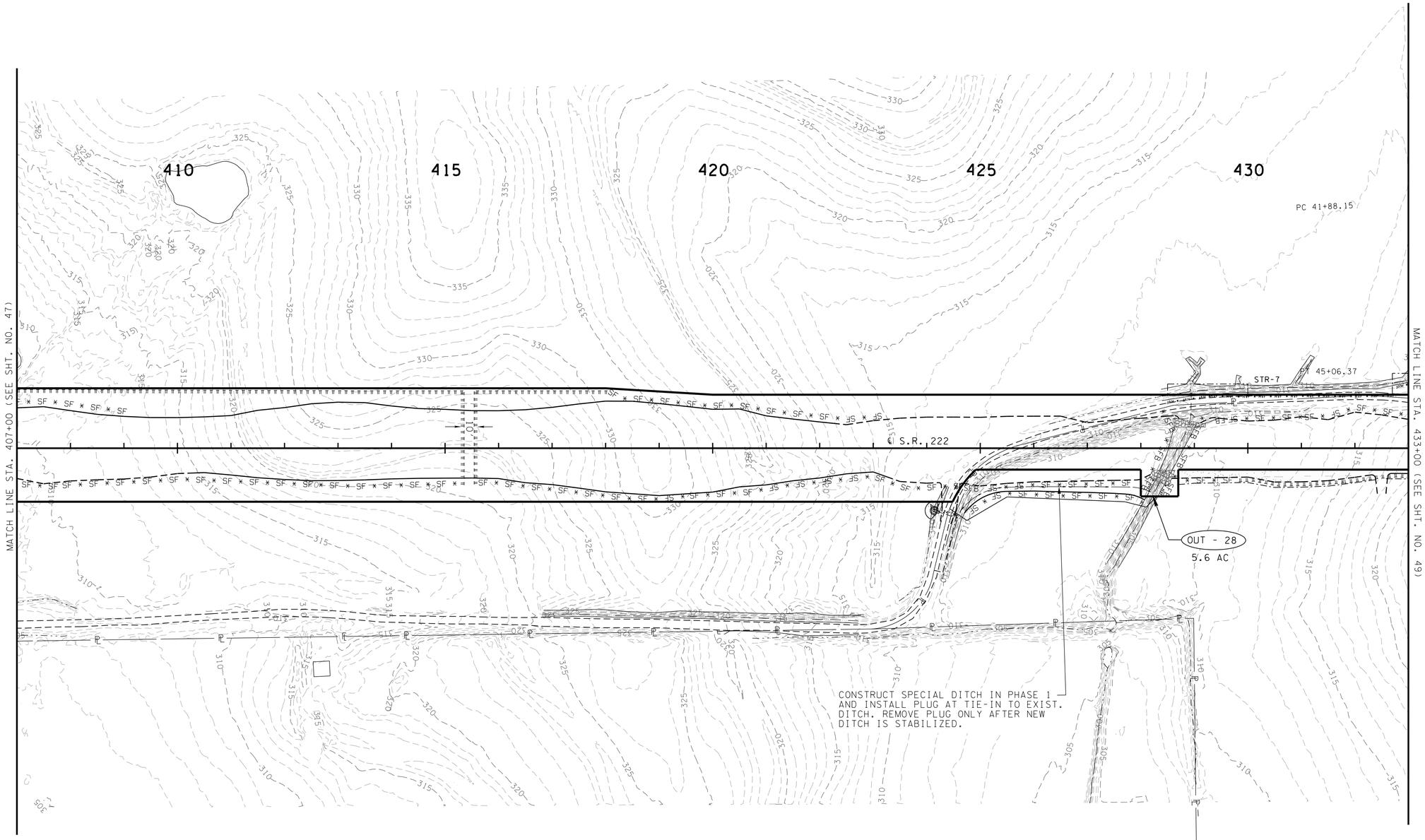
STA. 355+00 TO STA. 407+00

SCALE: 1"=100'

8/12/2014 4:40:15 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\047B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	48
CONST.	2014	38016-3206-04	48

REV. 08-12-14: REMOVED TRUSS RD. ALIGN. REMOVED OUTFALLS 24 & 25 AND MODIFIED EPSC MEASURES ACCORDINGLY.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

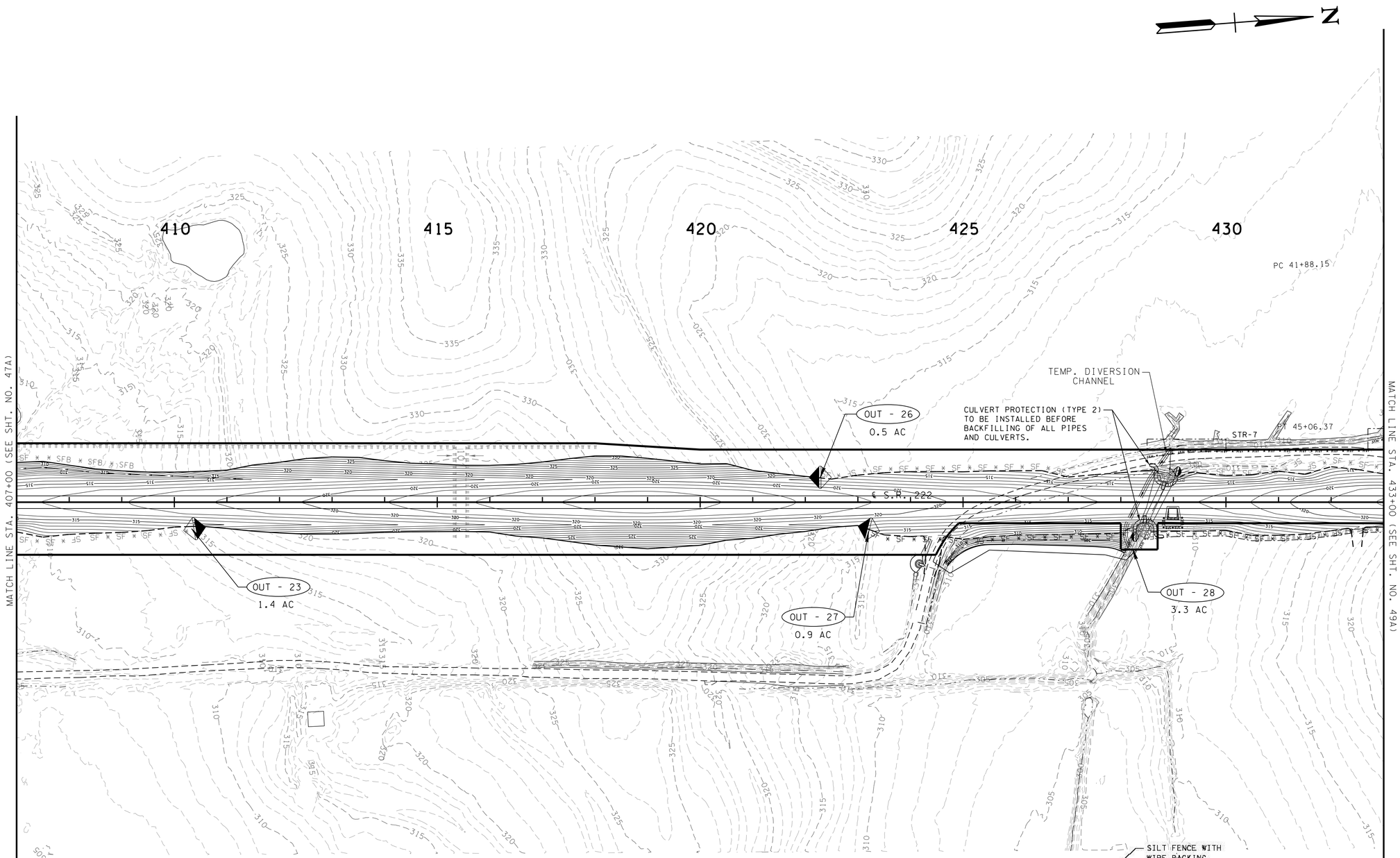
STA. 407+00 TO END PROJ.

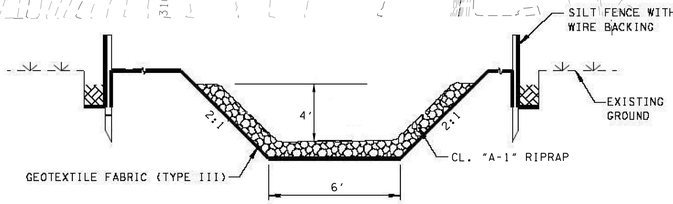
SCALE: 1"=100'

8/12/2014 4:40:17 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\048.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	48A
CONST.	2014	38016-3206-04	48A

REV. 08-12-14: REMOVED TRUSS RD. ALIGN. AND TRUSS RD. CUL-DE-SAC. MODIFIED PROP. CONTOURS AND EPSC MEASURES ACCORDINGLY.





TEMP. DIVERSION FOR THE CONST. OF
10' X 8' RCB @ STA. 428+65 PROP. S.R. 222
SEE STD. DWG. EC-STR-31
FOR DETAILS

STR-7

UNOFFICIAL SET

NOT FOR BIDDING

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PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 407+00 TO END PROJ.

SCALE: 1"=100'

8/12/2014 4:40:27 PM
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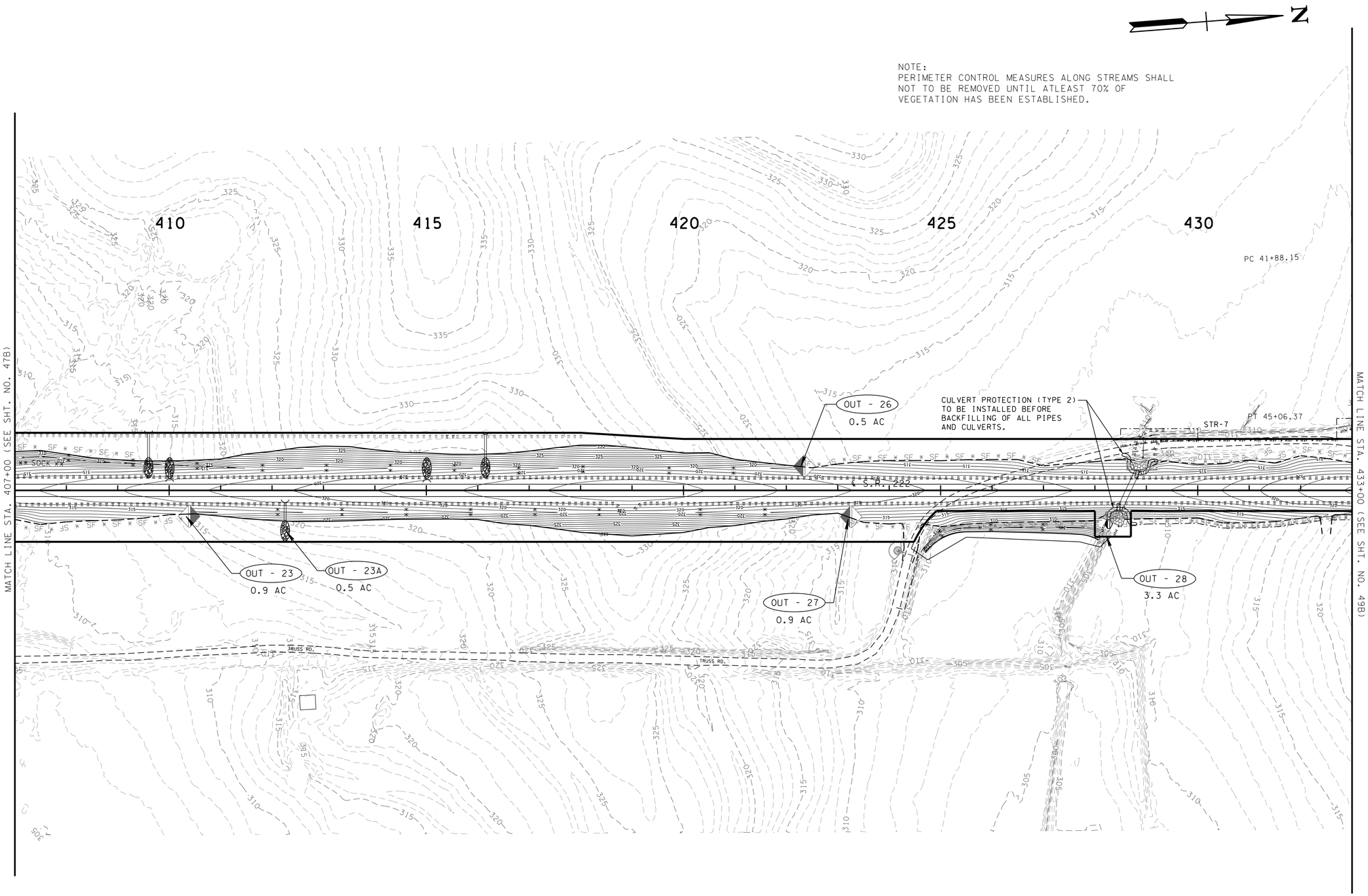
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	48B
CONST.	2014	38016-3206-04	48B

REV. 08-12-14: REMOVED TRUSS RD. ALIGN. AND TRUSS RD. CUL-DE-SAC. MODIFIED PROP. CONTOURS AND EPSC MEASURES ACCORDINGLY.

NOTE:
PERIMETER CONTROL MEASURES ALONG STREAMS SHALL NOT TO BE REMOVED UNTIL ATLEAST 70% OF VEGETATION HAS BEEN ESTABLISHED.



UNOFFICIAL SET

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SEALED BY

PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

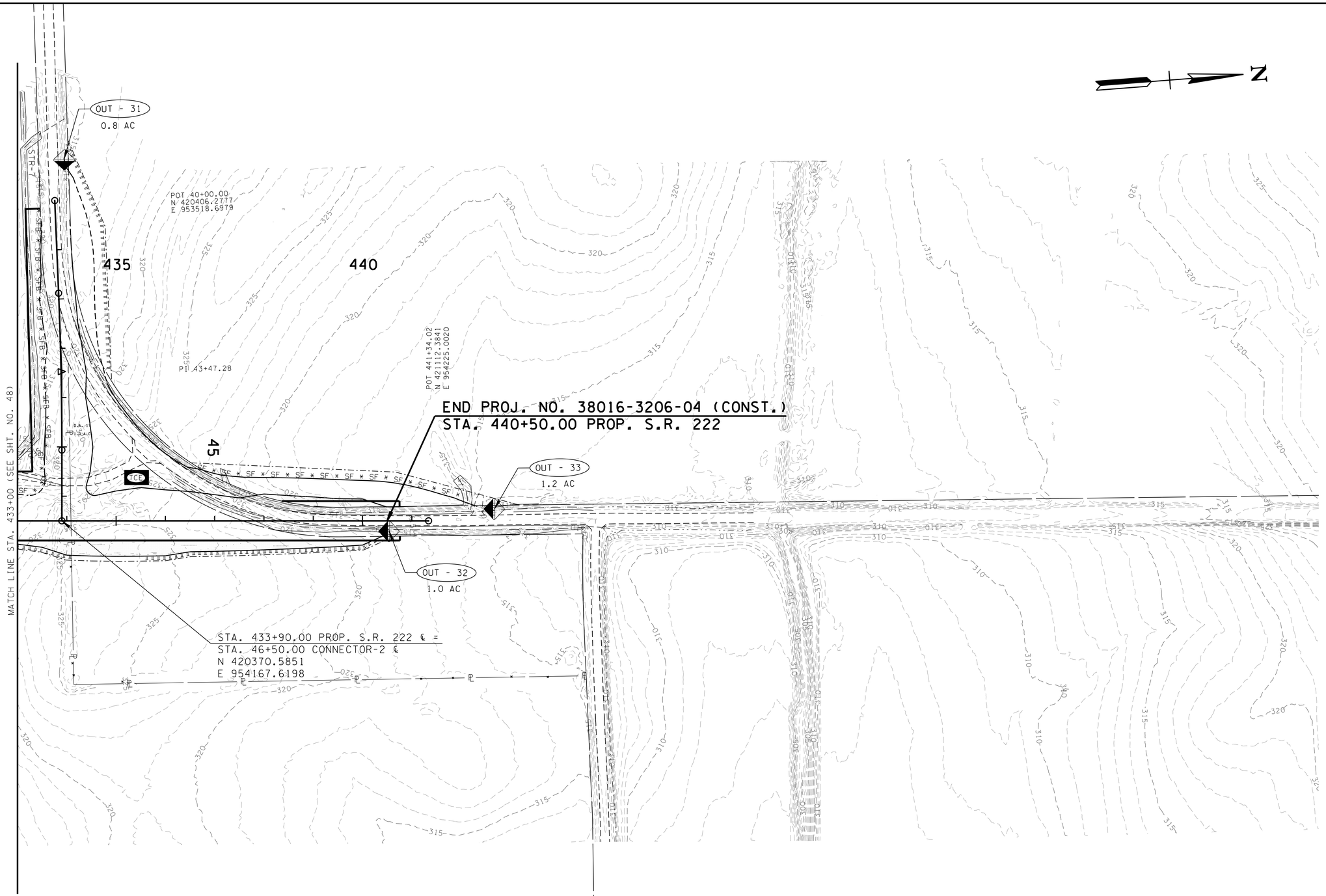
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 407+00 TO END PROJ.

SCALE: 1"=100'

8/12/2014 4:40:29 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\048B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	49
CONST.	2014	38016-3206-04	49



UNOFFICIAL SET

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PHASE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

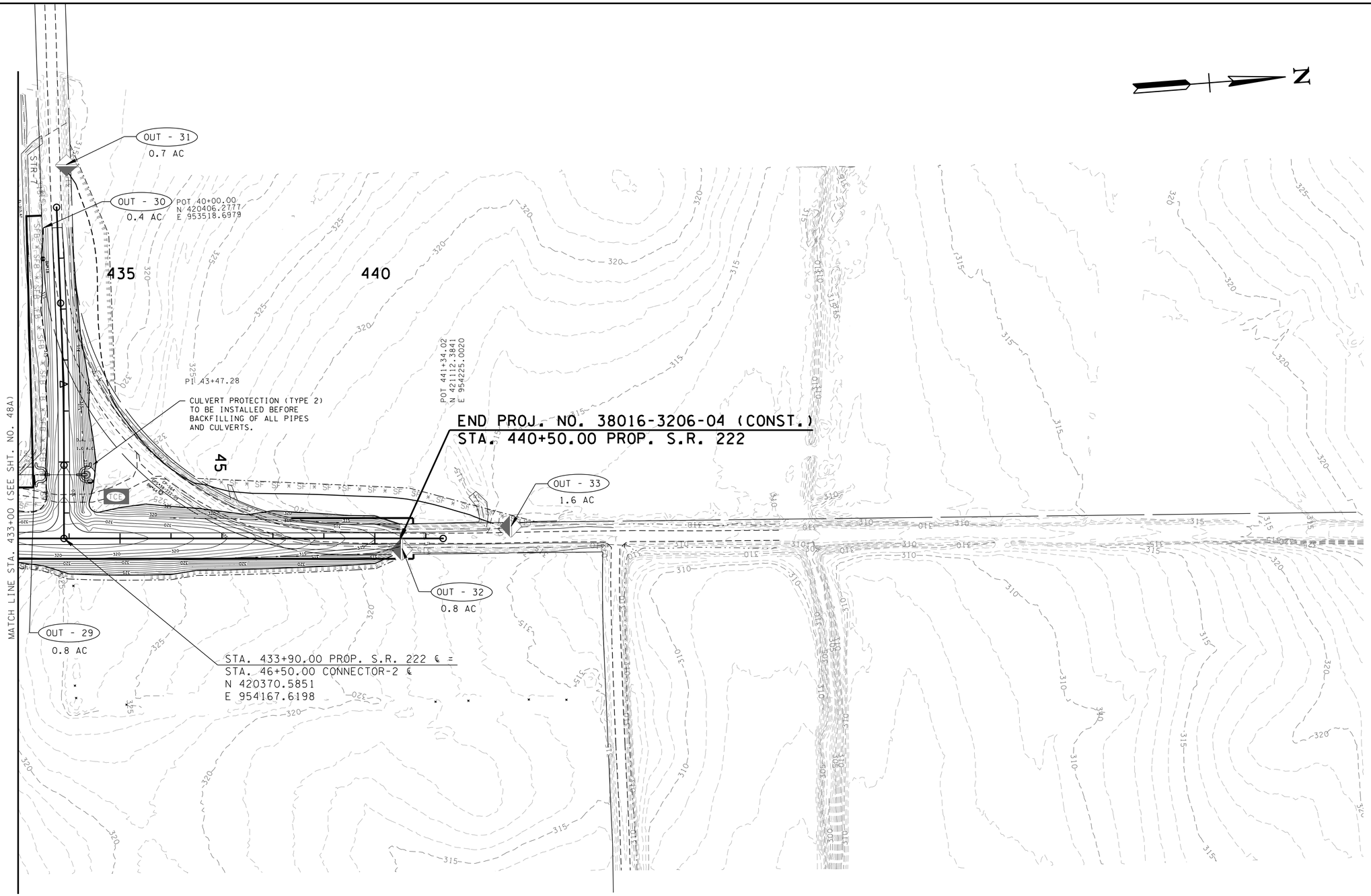
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 407+00 TO END PROJ.

SCALE: 1"=100'

8/12/2014 4:40:31PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\049.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	49A
CONST.	2014	38016-3206-04	49A



UNOFFICIAL SET

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SEALED BY

PHASE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 407+00 TO END PROJ.

SCALE: 1"=100'

8/12/2014 4:40:34 PM
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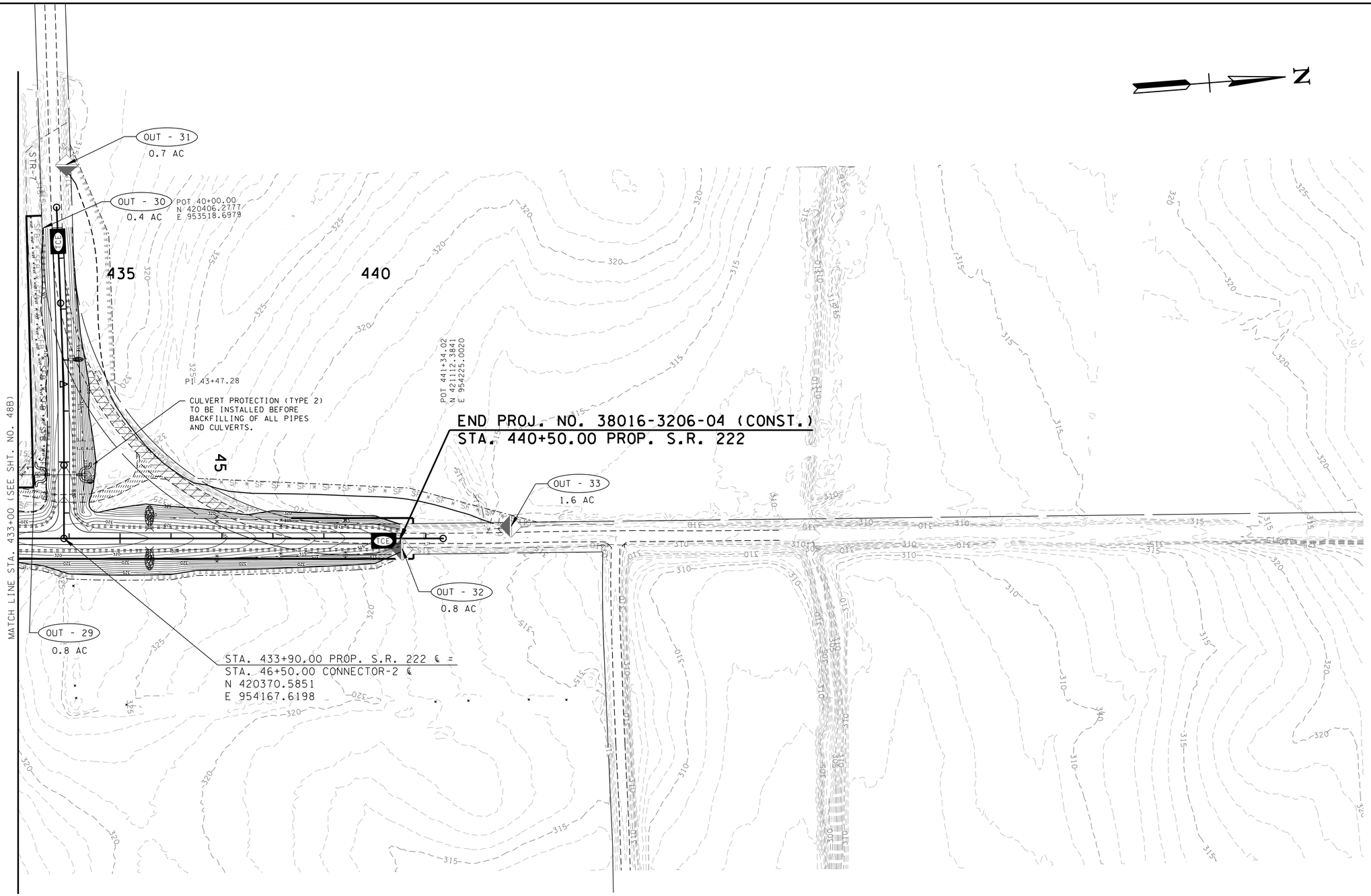
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	49B
CONST.	2014	38016-3206-04	49B



UNOFFICIAL SET

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PHASE 3
FINAL GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 407+00 TO END PROJ.

SCALE: 1"=100'

8/12/2014 4:40:36 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\049B.SHT

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.

SEE SHEET 2E FOR TEMPORARY RUN-AROUND TYPICAL SECTION

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	TEMPORARY ATTENUATOR
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

TRAFFIC CONTROL SIGN SCHEDULE

SIGN TYPE	MUTCD NUMBER	SIZE AREA	PHASE ONE	PHASE TWO	TOTAL
ROAD WORK AHEAD	W20-1	36" X 36" 9 s.f.	4	2	4
ROAD WORK 1000 FT	W20-1	36" X 36" 9 s.f.	3	2	3
ROAD WORK 1500 FT	W20-1	36" X 36" 9 s.f.	2	2	2
ROAD CLOSED 3000 FT	W20-3	36" X 36" 9 s.f.	0	1	1
RIGHT SHOULDER CLOSED AHEAD	W21-5B	36" X 36" 9 s.f.	1	0	1
	W21-5B	36" X 36" 9 s.f.	1	0	1
25 MPH	W13-1P	30" X 30" 6.25 s.f.	0	2	2
30 MPH	W13-1P	30" X 30" 6.25 s.f.	2	0	2
	W1-2L	36" X 36" 9 s.f.	1	1	1
	W1-2R	36" X 36" 9 s.f.	1	1	1
	W1-4L	36" X 36" 9 s.f.	2	1	2
	W1-4R	36" X 36" 9 s.f.	3	0	3
	W6-3	36" X 36" 9 s.f.	0	4	4
	W1-6L	48" X 24" 8 s.f.	1	0	1
	W1-6R	48" X 24" 8 s.f.	1	0	1
STOP	R1-1	30" X 30" 6.25 s.f.	0	1	1
YIELD	R1-2	36" X 36" 9 s.f.	0	1	1
ROAD CLOSED	R11-2	48" X 30" 10 s.f.	2	2	2
END ROAD WORK	G20-2	36" X 18" 4.5 s.f.	5	3	5
		TOTAL S.F.	233	187.25	305.75

TRAFFIC CONTROL NOTES PHASING NOTES:

PHASE 1

1) MAINTAIN TRAFFIC ON ALL EXISTING ROADS (OR TEMPORARY RUNAROUNDS).

2) CONSTRUCT NEW SR-222 AND CONNECTORS TO THE EXTENT POSSIBLE.

PHASE 2

1) MAINTAIN TRAFFIC ON NEWLY CONSTRUCTED PORTION OF SR-222 (OR TEMPORARY RUNAROUND).

2) CONSTRUCT REMAINING SR-222 AND CONSTUCT OLD SR-222.

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PHASE 1	PHASE 2	TOTALS
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	E.A.	2		2
712-01	TRAFFIC CONTROL	L.S.	1		1
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	420		420
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	E.A.	45	178	178
712-05.03	WARNING LIGHTS (TYPE C)	E.A.	20	20	20
712-06	SIGNS (CONSTRUCTION)	S.F.	233	188	306
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40	70	70
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	800	1000	1800
716-01.07	TEMPORARY RAISED PAVEMENT MARKER,YELLOW	E.A.	100	11	111
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1	5	6
716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	420	0	420

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	50

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TRAFFIC CONTROL NOTES

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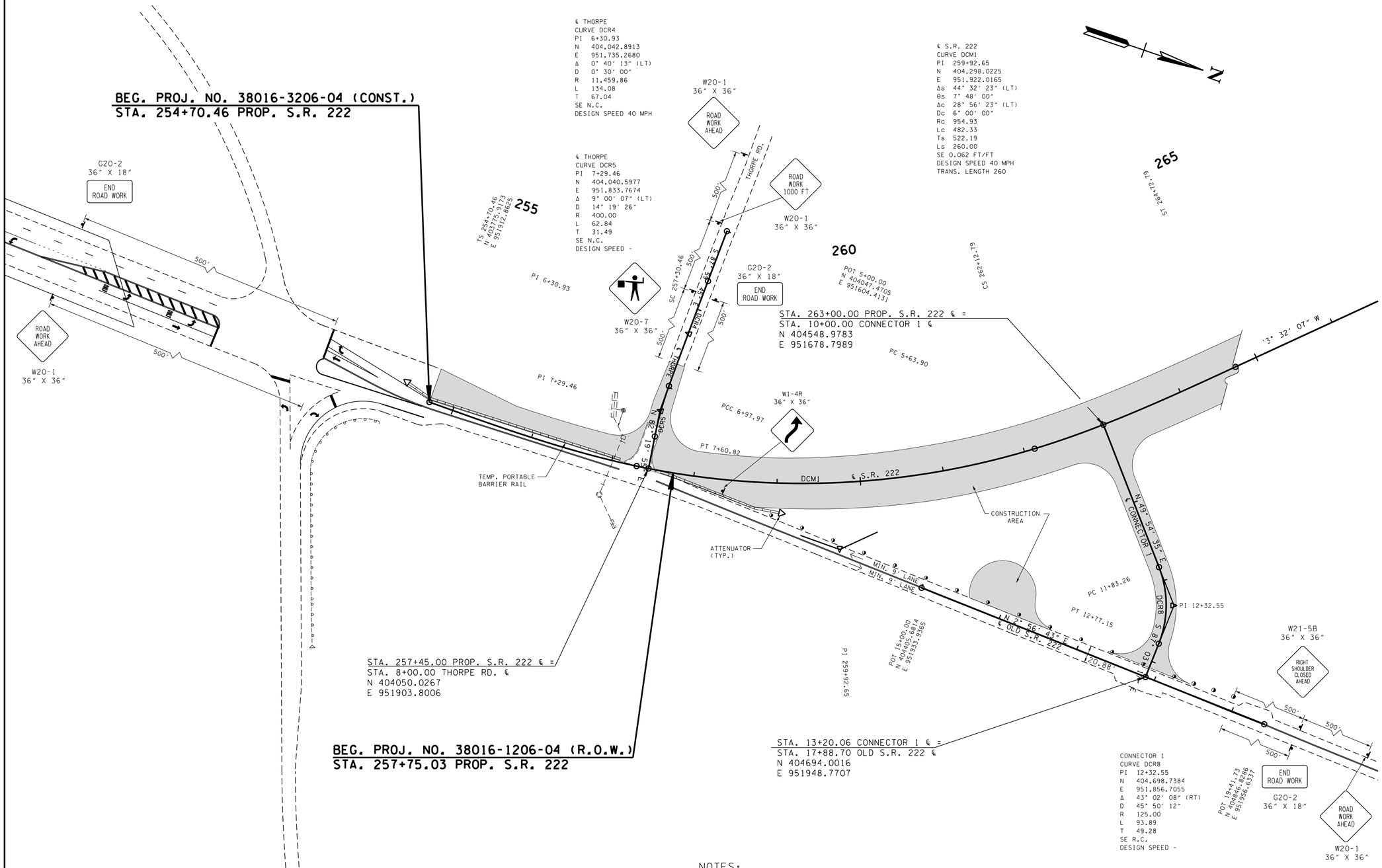
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	50A



NOTES:

CONTRACTOR SHALL MAINTAIN TRAFFIC ALONG THORPE RD. AT ALL TIMES DURING CONSTRUCTION.

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TRAFFIC CONTROL PLAN PHASE 1

AT BEG. PROJ.

SCALE: 1"= 60′

8/12/2014 4:42:27 PM
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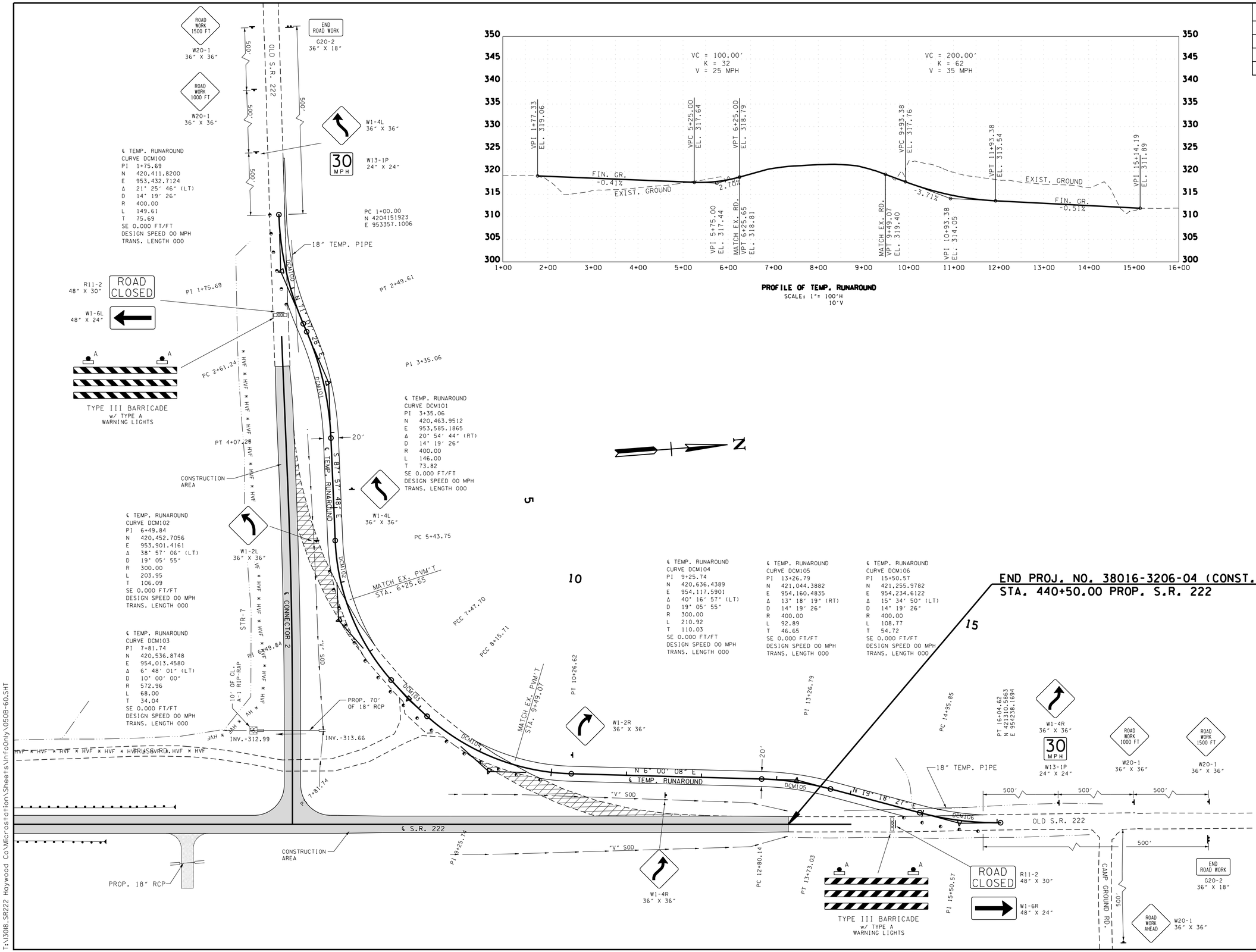
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	50B



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

TEMPORARY RUNAROUND

SCALE: 1"= 60'

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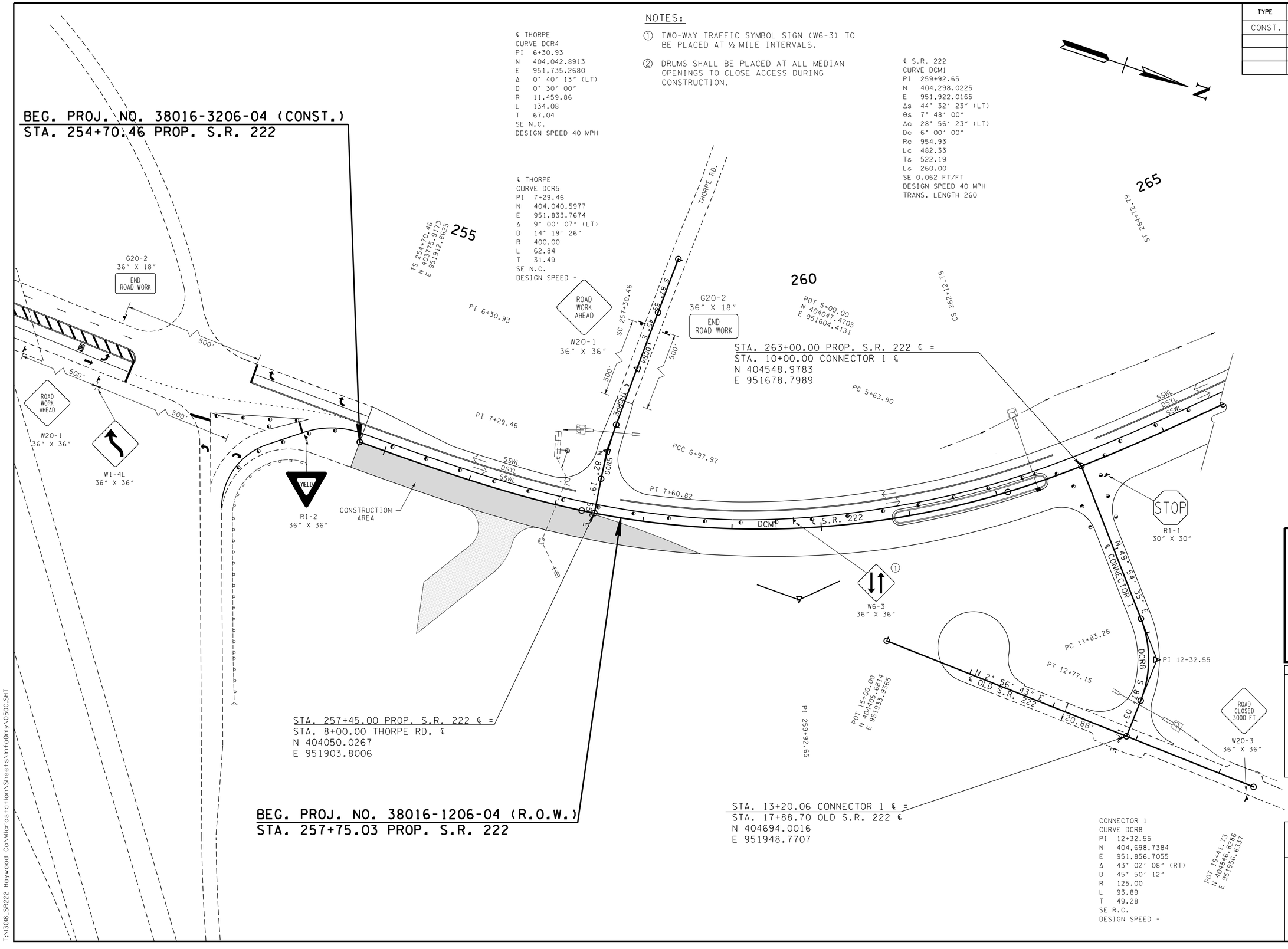
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	50C

NOTES:

① TWO-WAY TRAFFIC SYMBOL SIGN (W6-3) TO BE PLACED AT ½ MILE INTERVALS.

② DRUMS SHALL BE PLACED AT ALL MEDIAN OPENINGS TO CLOSE ACCESS DURING CONSTRUCTION.



UNOFFICIAL SET

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TRAFFIC CONTROL PLAN
PHASE 2
AT BEG. PROJ.
SCALE: 1"= 50′

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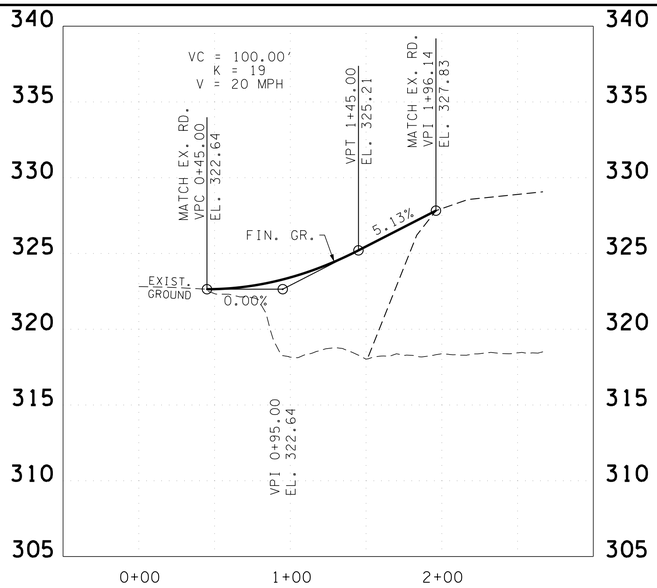
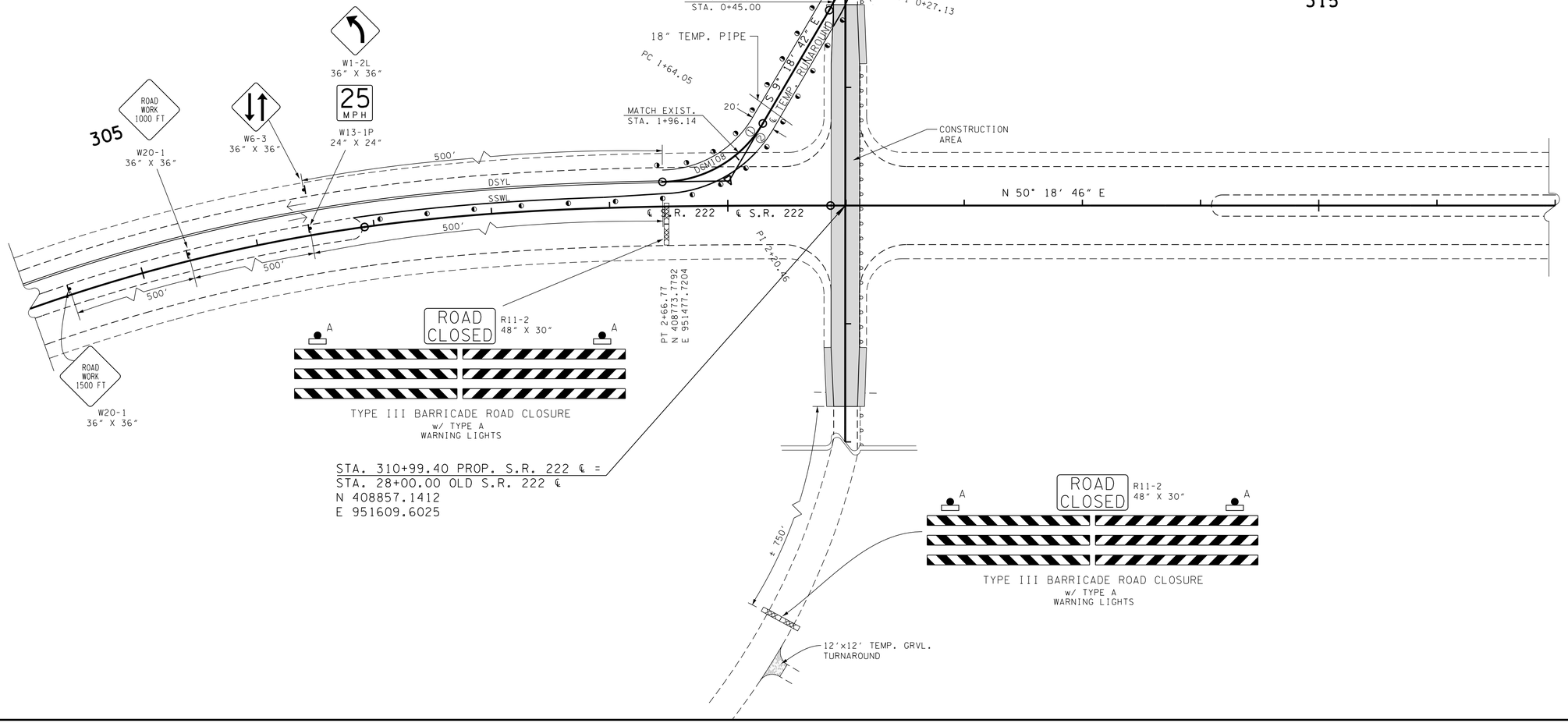
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	50D



PROFILE OF TEMP. RUNAROUND
SCALE: 1"= 5'H
10'V

NOTES:

1. LANE 1 SHALL BE OPEN TO TRAFFIC AT ALL TIMES
2. CONTRACTOR MAY CLOSE LANE 2 AND USE FLAGMEN TO CONTROL TRAFFIC DURING THE HOURS OF ACTIVE CONSTRUCTION OPERATIONS. LANE 2 MUST BE RE-OPENED AND TRAVERSABLE AT THE END OF WORK DAY.



STA. 310+99.40 PROP. S.R. 222 ℄ =
STA. 28+00.00 OLD S.R. 222 ℄
N 408857.1412
E 951609.6025

℄ TEMP. RUNAROUND
CURVE DCM107
PI 0+27.13
N 409,002.4277
E 951,489.1522
Δ 30° 21' 20" (RT)
D 57° 17' 45"
R 100.00
L 52.98
T 27.13
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

℄ TEMP. RUNAROUND
CURVE DCM108
PI 2+20.46
N 408,810.3824
E 951,520.6413
Δ 58° 51' 14" (RT)
D 57° 17' 45"
R 100.00
L 102.72
T 56.41
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

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TRAFFIC CONTROL PLAN PHASE 2

PROP. SR-222 AT OLD SR-222
SCALE: 1"= 50'

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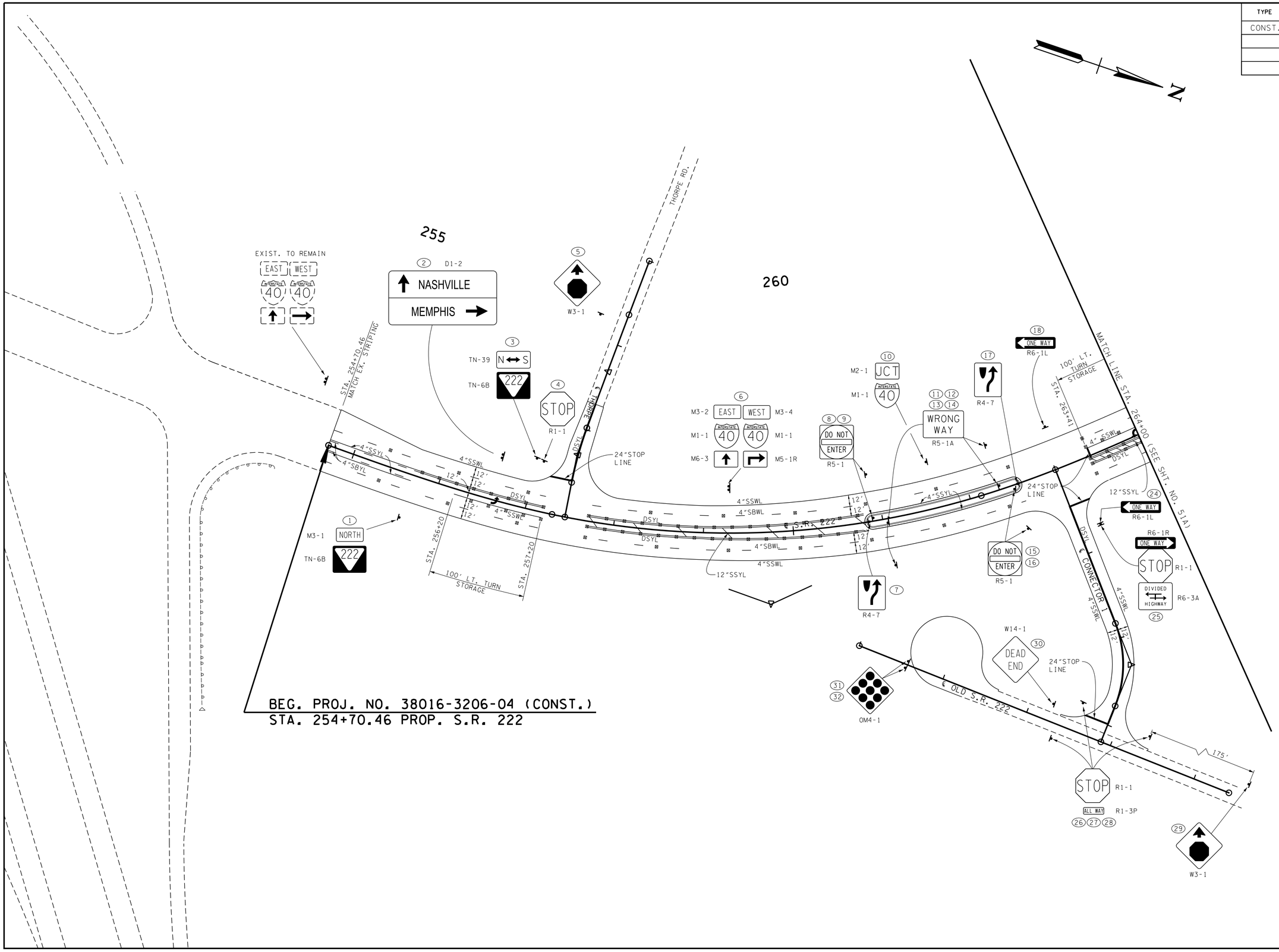
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51



BEG. PROJ. NO. 38016-3206-04 (CONST.)
STA. 254+70.46 PROP. S.R. 222

UNOFFICIAL SET

NOT FOR BIDDING

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SIGNING & PAVEMENT MARKING PLANS

BEG. PROJ. TO STA. 264+00

SCALE: 1"=50 '

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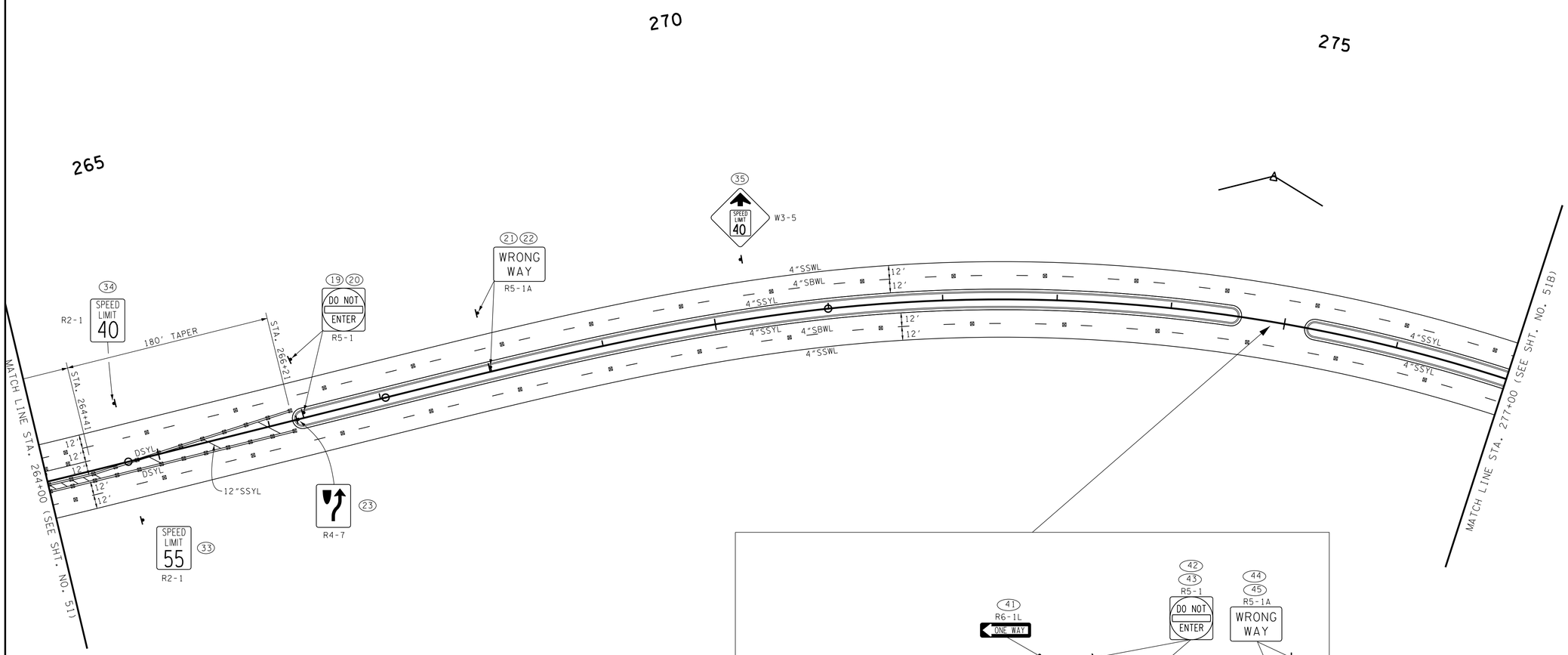
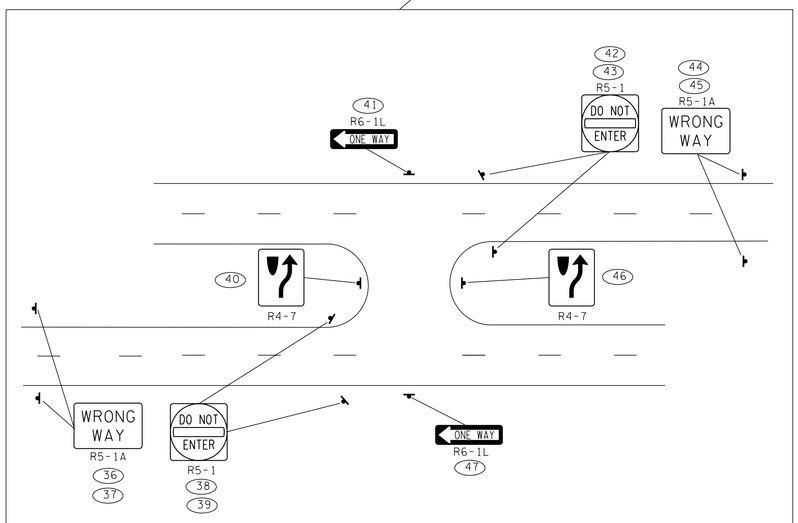
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51A





MEDIAN OPENING SIGNING (TYP.)
ONE WAY & WRONG WAY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLANS

STA. 264+00 TO STA. 277+00

SCALE: 1"=50 '

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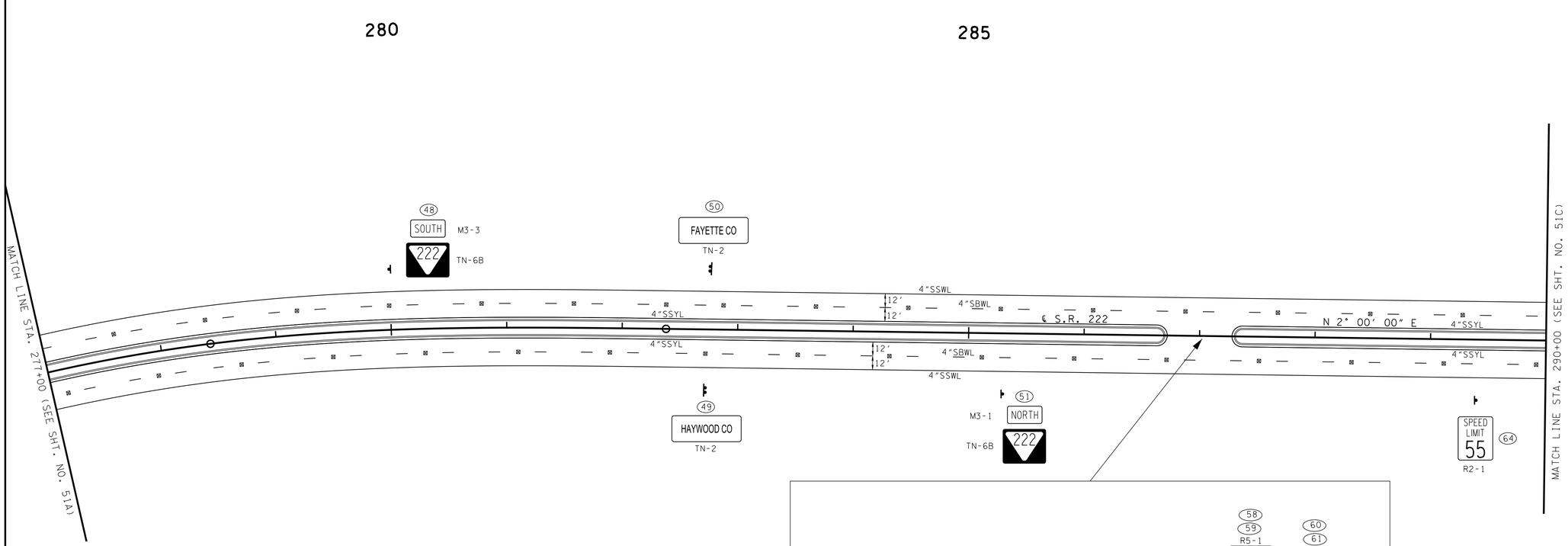
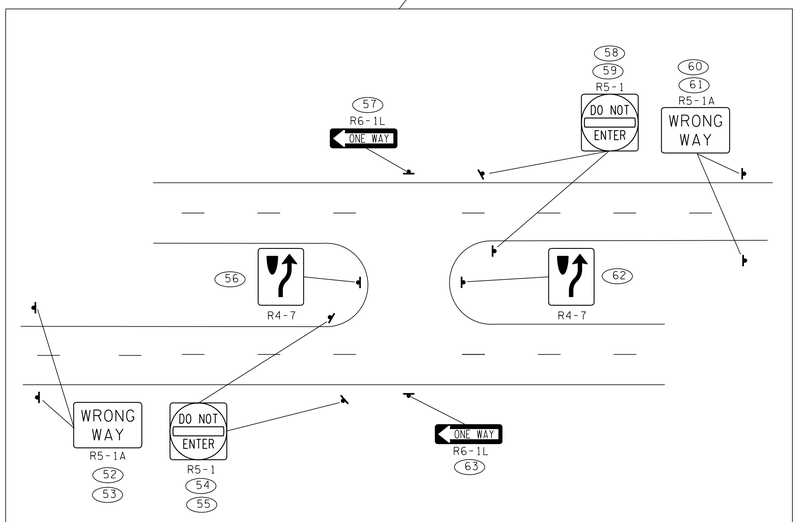
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51B





MEDIAN OPENING SIGNING (TYP.)
ONE WAY & WRONG WAY

UNOFFICIAL SET

NOT FOR BIDDING

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SIGNING & PAVEMENT MARKING PLANS

STA. 277+00 TO STA. 290+00

SCALE: 1"=50 '

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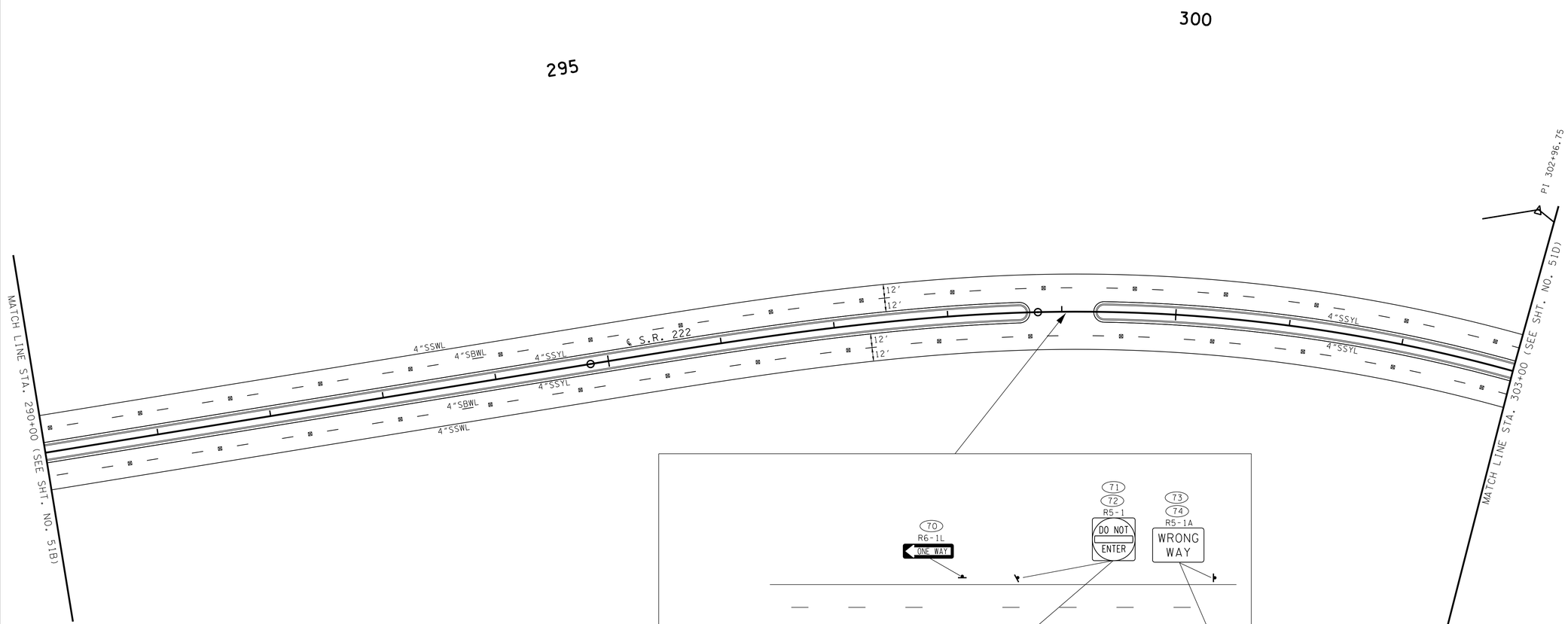
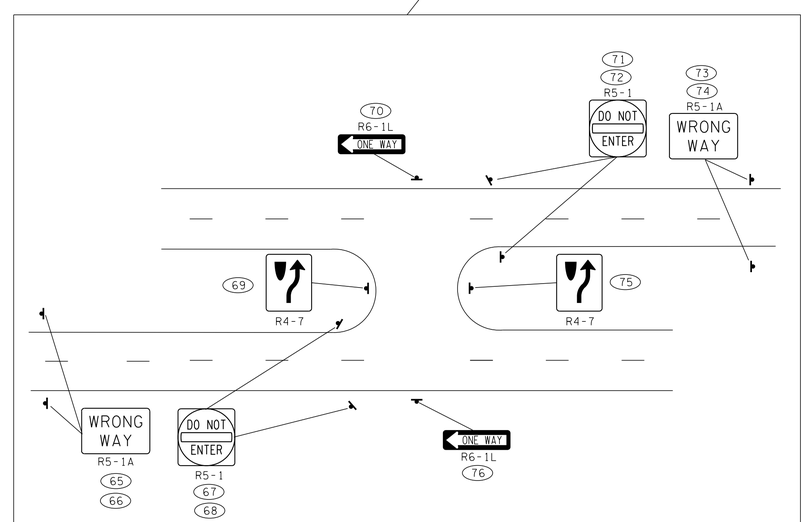
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51C





MEDIAN OPENING SIGNING (TYP.)
ONE WAY & WRONG WAY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
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SIGNING & PAVEMENT MARKING PLANS

STA. 277+00 TO STA. 303+00

SCALE: 1"=50 '

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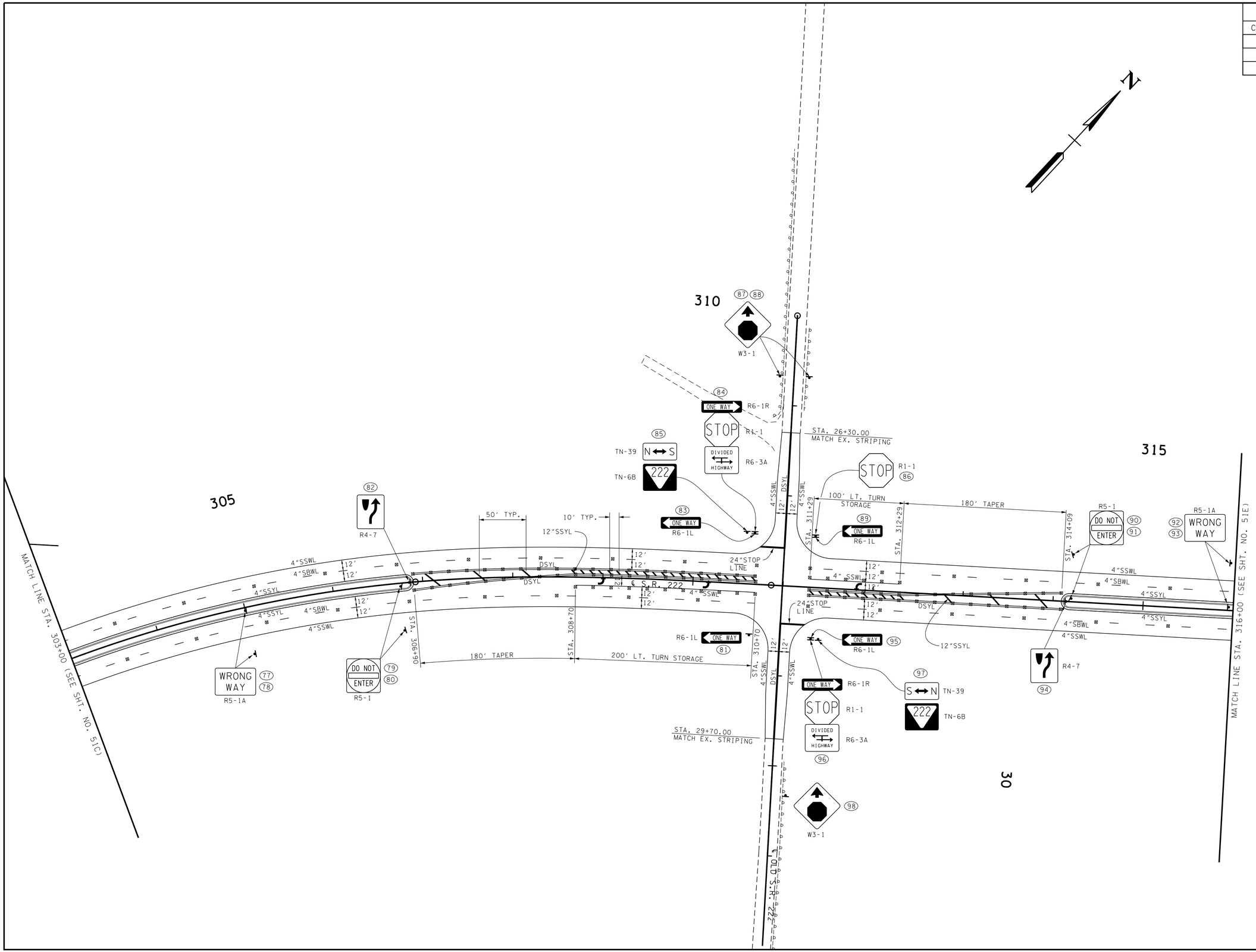
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51D



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
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SIGNING & PAVEMENT MARKING PLANS

STA. 303+00 TO STA. 316+00

SCALE: 1"=50 '

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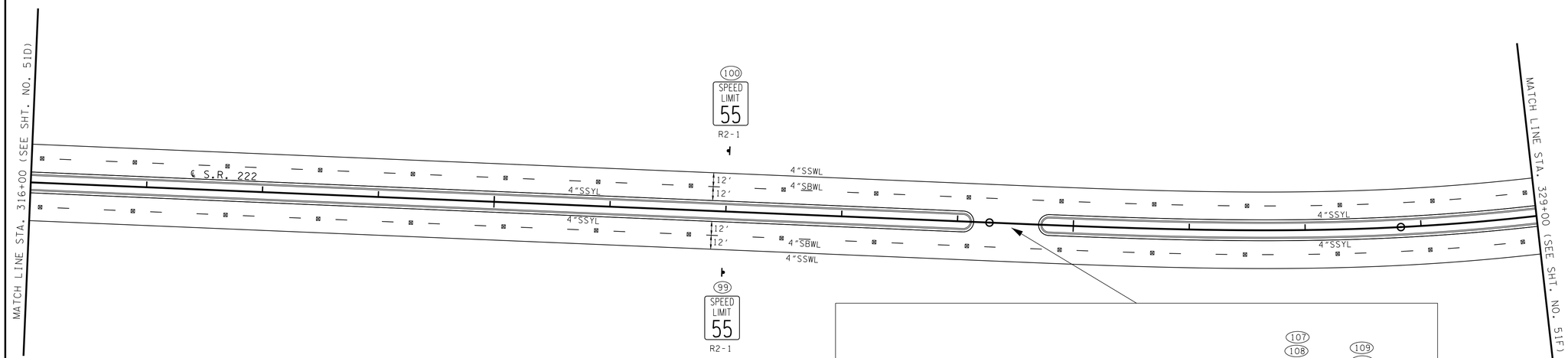
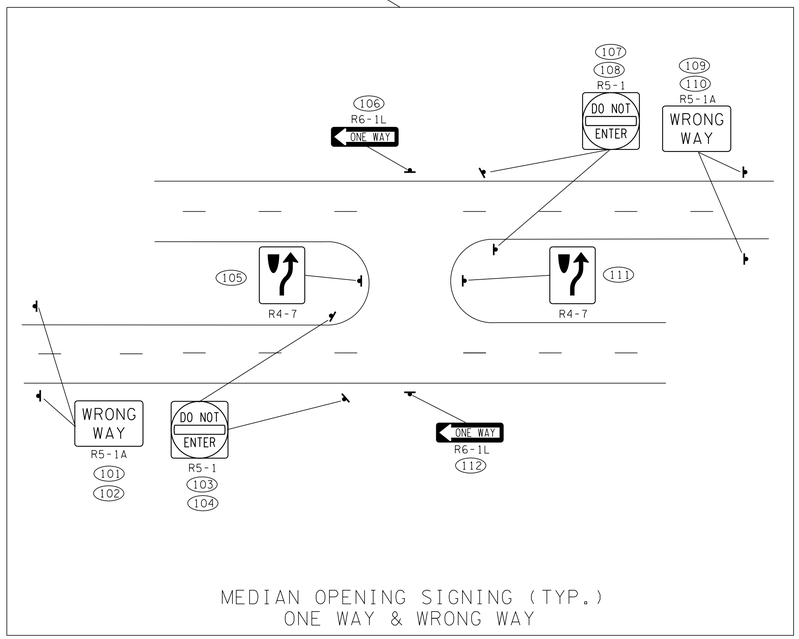
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51E





MEDIAN OPENING SIGNING (TYP.)
ONE WAY & WRONG WAY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
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SIGNING & PAVEMENT MARKING PLANS

STA. 316+00 TO STA. 329+00

SCALE: 1"=50 '

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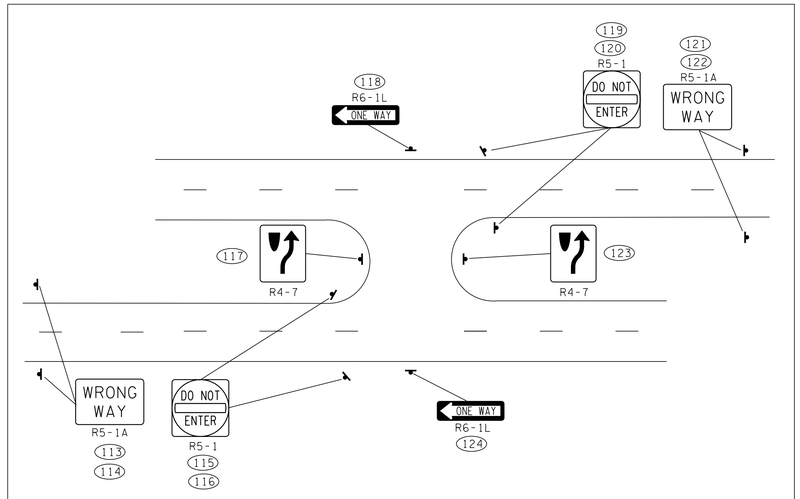
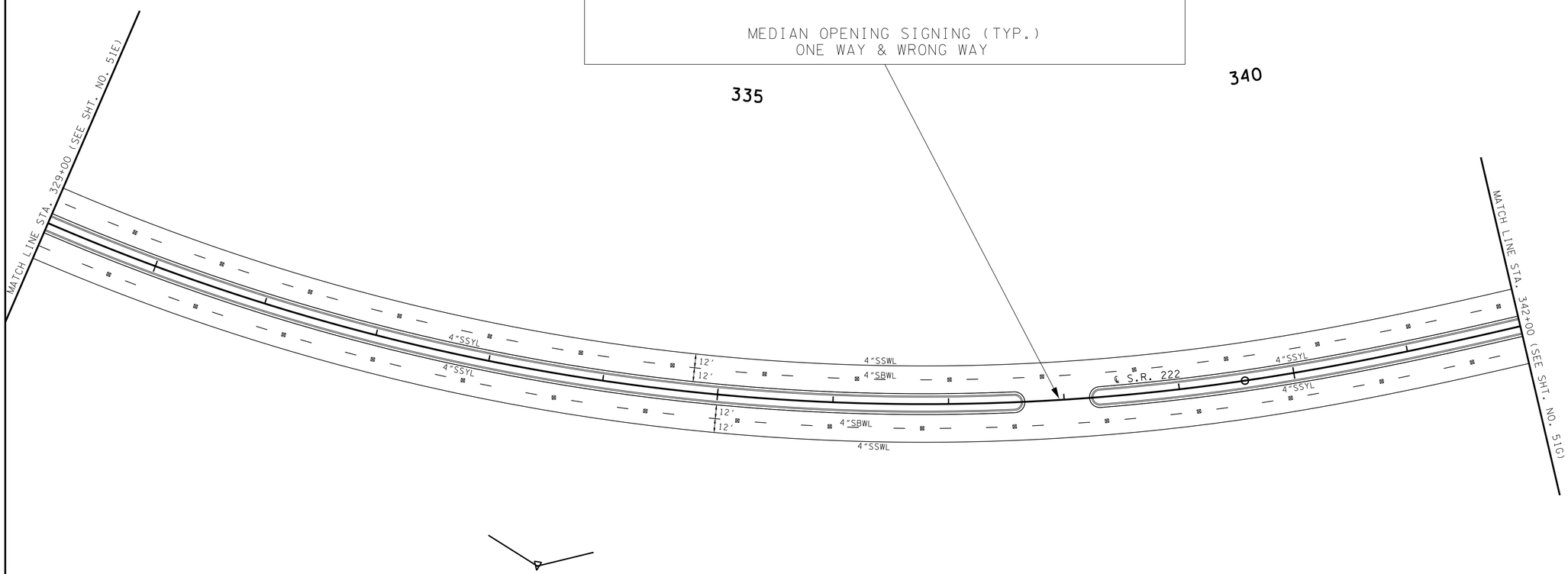
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51F



MEDIAN OPENING SIGNING (TYP.)
ONE WAY & WRONG WAY



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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SIGNING & PAVEMENT MARKING PLANS

STA. 329+00 TO STA. 342+00

SCALE: 1"=50 '

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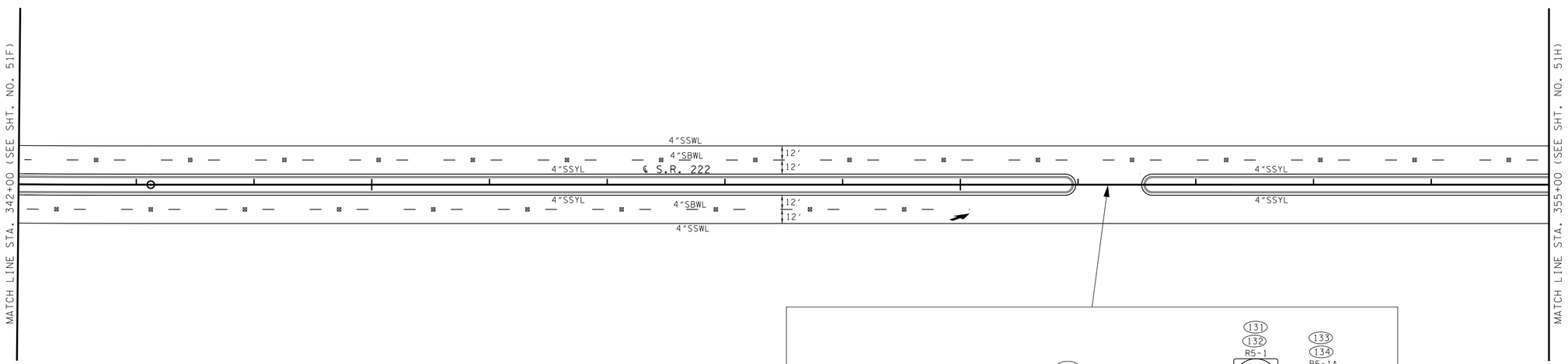
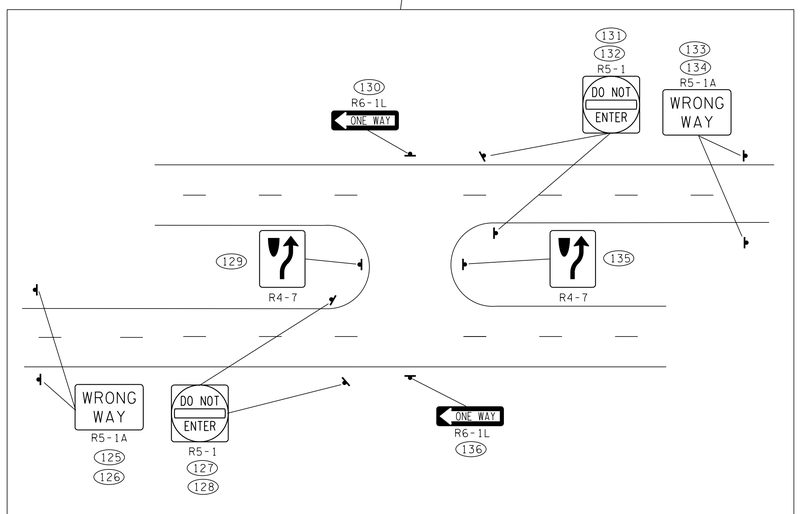
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51G





MEDIAN OPENING SIGNING (TYP.)
ONE WAY & WRONG WAY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

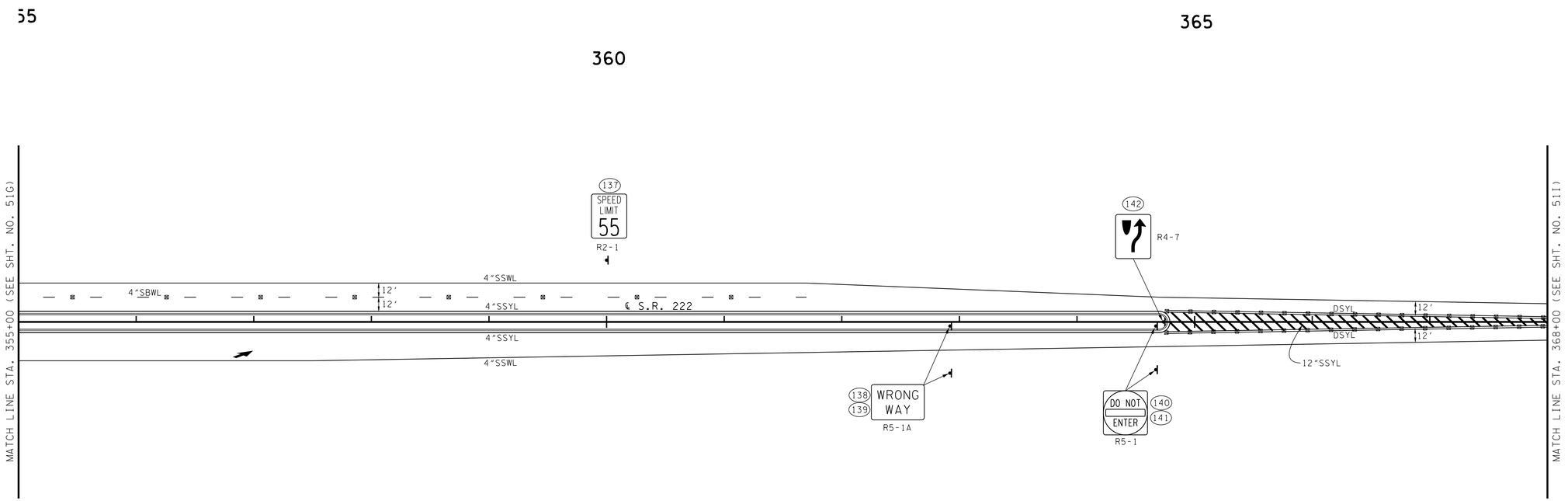
SIGNING & PAVEMENT MARKING PLANS

STA. 342+00 TO STA. 355+00

SCALE: 1"=50 '

8/12/2014 4:42:46 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\Info0nly\051G.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51H



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

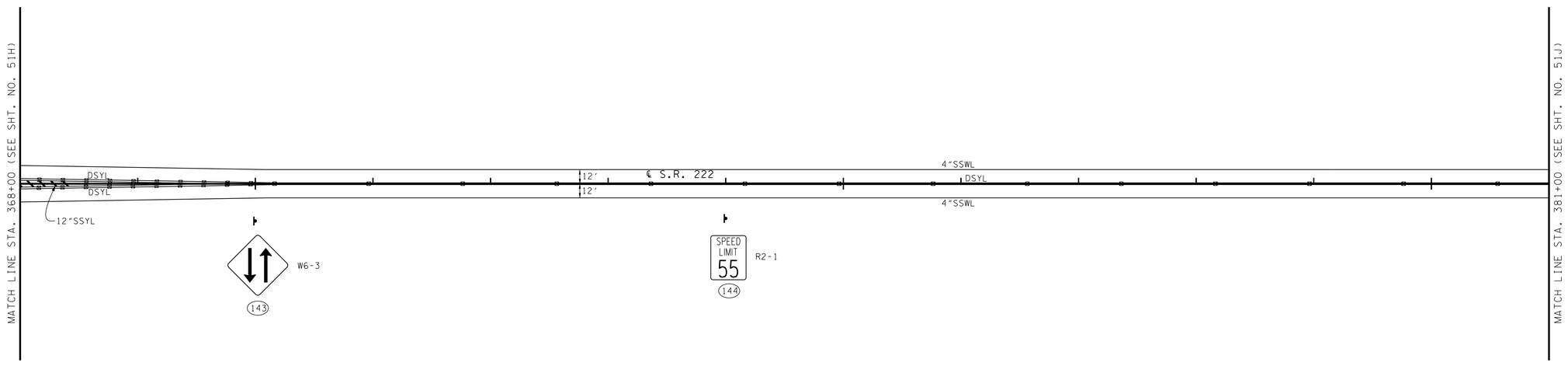
SIGNING & PAVEMENT MARKING PLANS

STA. 355+00 TO STA. 368+00

SCALE: 1"=50 '

8/12/2014 4:42:47 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\05IH.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51I



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

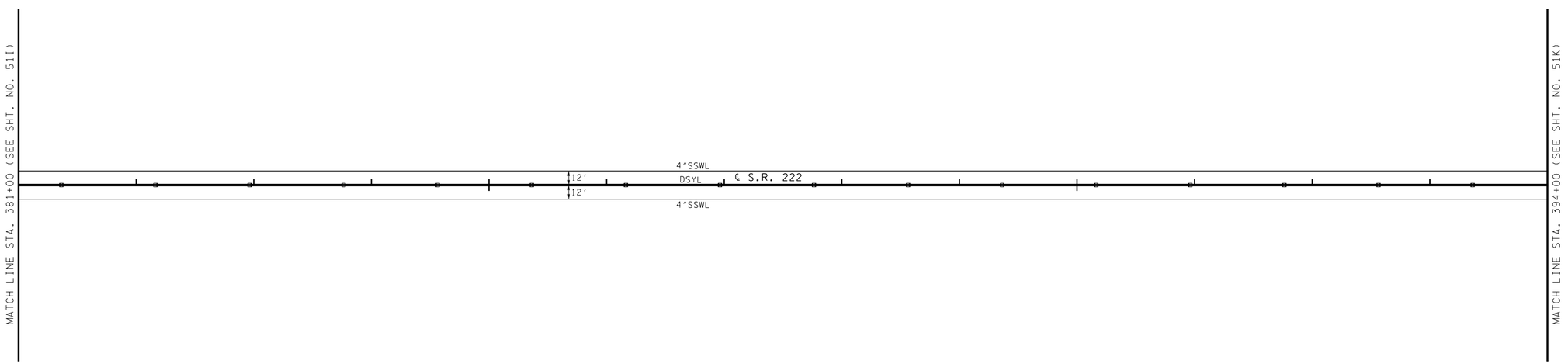
SIGNING & PAVEMENT MARKING PLANS

STA. 368+00 TO STA. 381+00

SCALE: 1"=50 '

8/12/2014 4:42:47 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\Info0nly\05ILSHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51J



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

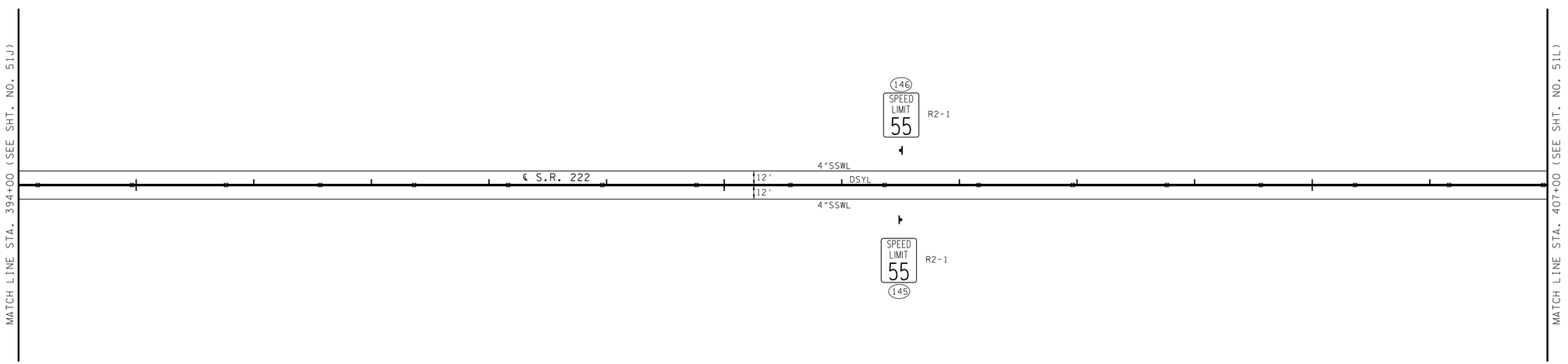
SIGNING & PAVEMENT MARKING PLANS

STA. 381+00 TO STA. 394+00

SCALE: 1"=50 '

8/12/2014 4:42:48 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\051J.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51K



UNOFFICIAL SET

NOT FOR BIDDING

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DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLANS

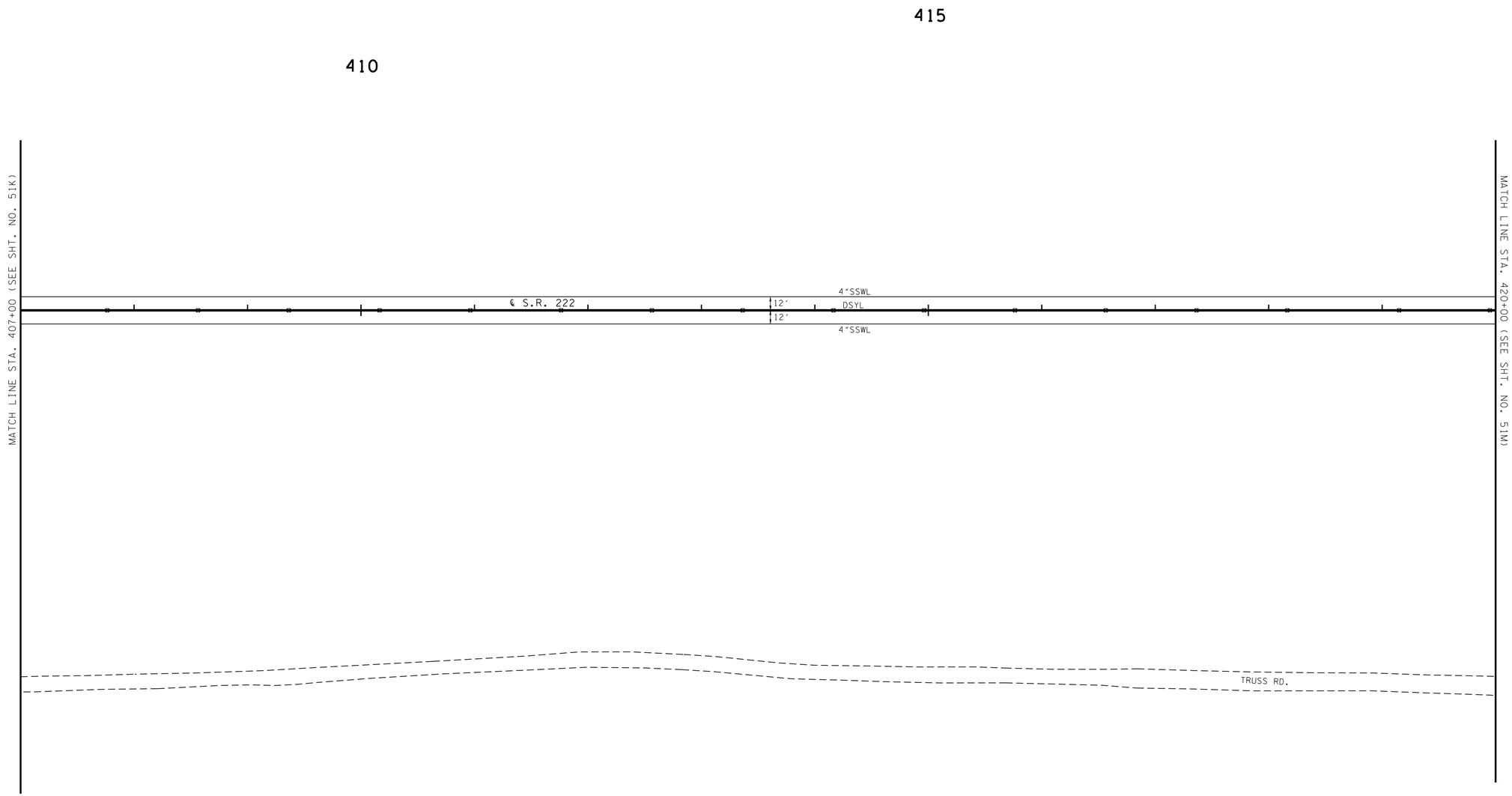
STA. 398+00 TO STA. 407+00

SCALE: 1"=50 '

8/12/2014 4:42:48 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\051K.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51L

REV. 08-12-14: REMOVED TRUSS RD. ALIGN. AND PROP. PVM'T MARKINGS AND SIGNS NO. 147 TO 152.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLANS

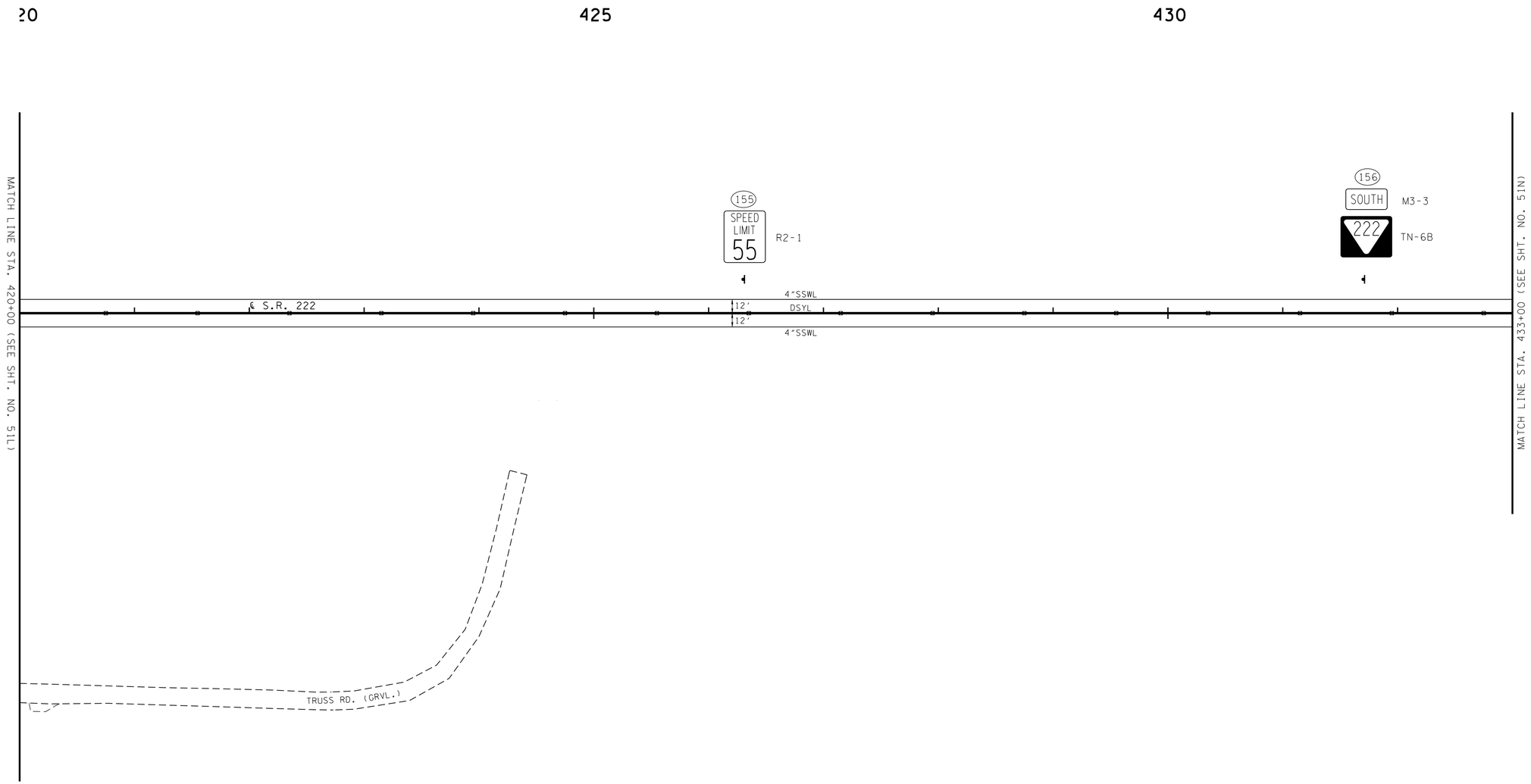
STA. 407+00 TO STA. 420+00

SCALE: 1"=50 '

8/12/2014 4:42:52 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\051L.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51M

REV. 08-12-14: REMOVED TRUSS RD. CUL-DE-SAC AND SIGNS NO. 153 & 154.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

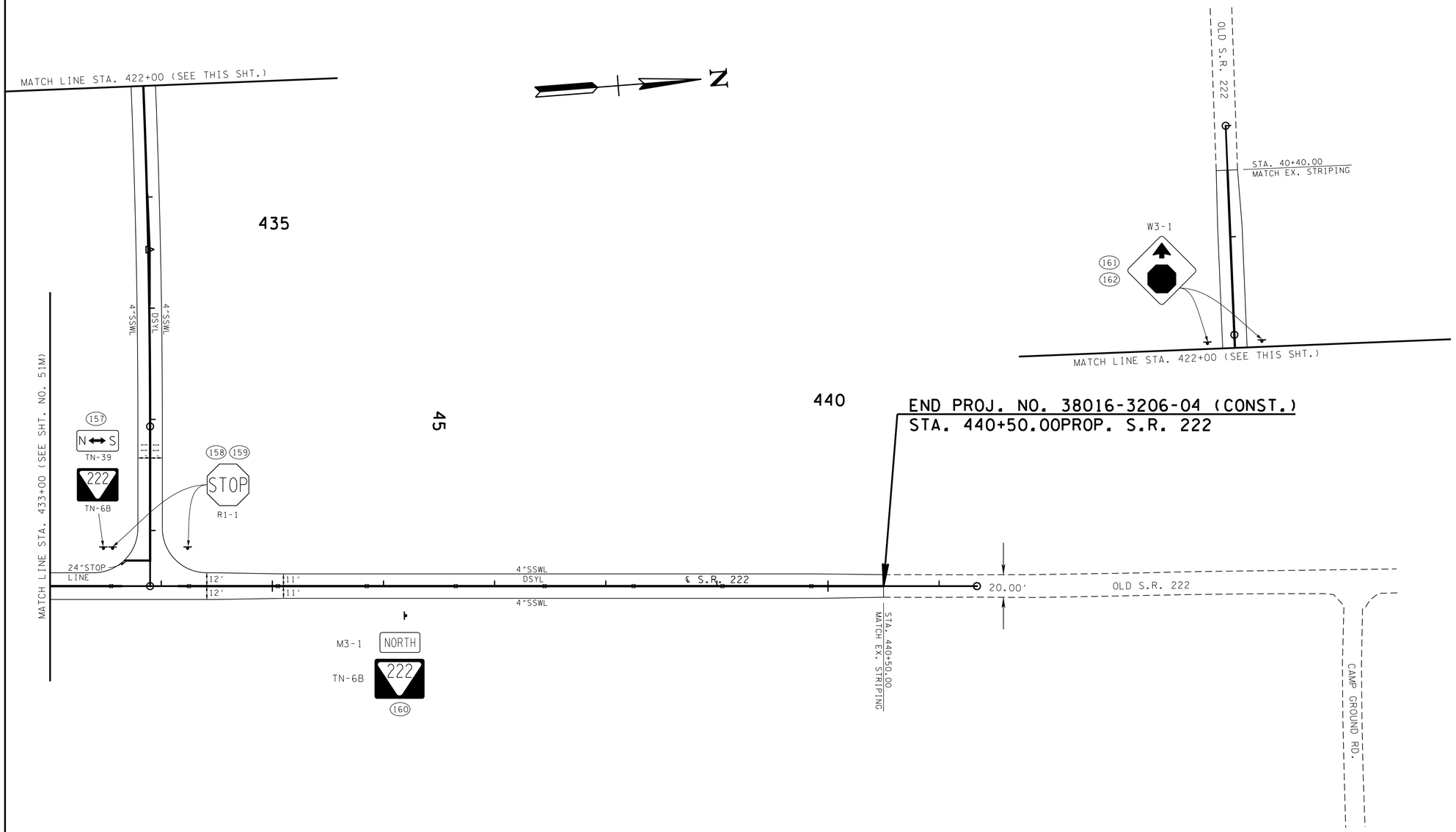
SIGNING & PAVEMENT MARKING PLANS

STA. 420+00 TO STA. 433+00

SCALE: 1"=50 '

8/12/2014 4:42:53 PM
T:\13018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\051M.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	51N



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLANS

STA. 433+00 TO END PROJ.

SCALE: 1"=50 '

8/12/2014 4:42:53 PM
T:\3018_SR222 Haywood Co\Microstation\Sheets\InfoOnly\051N.SHT

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.	2014	38016-3206-04	52

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.		
33		R2-1		36"	48"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	U3	h =13'-6"				5'-0"	
64																		h =13'-6"					
99																		h =13'-6"					
100																		h =13'-6"					
137																		h =13'-6"					
144																		h =13'-6"					
145																		h =13'-6"					
146																		h =13'-6"					
155																		h =13'-6"					
34		R2-1		36"	48"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	U3	h =13'-6"				5'-0"	
35		W3-5		36"	36"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	P8	h =13'-6"				5'-0"	
4		R1-1		36"	36"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	h =13'-6"				5'-0"	
86																		h =13'-6"					
147																		h =13'-6"					
158																		h =13'-6"					
159																		h =13'-6"					
29		W3-1		36"	36"									(ARROW) BLACK (STOP) RED (REF.)	YELLOW (FLOR.)	0.100" SHEET ALUMINUM	P8	h =13'-6"				5'-0"	TO BE LOCATED AS DIRECTED BY THE ENGINEER
98																		h =13'-6"					
5																		h =13'-6"				5'-0"	
87																		h =13'-6"					
88																		h =13'-6"					
161																		h =13'-6"					
162																		h =13'-6"					
7		R4-7		24"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM		h =12'-6"				5'-0"	
17																		h =12'-6"					
23																		h =12'-6"					
40																		h =12'-6"					
46																		h =12'-6"					
56																		h =12'-6"					
62																		h =12'-6"					
69																		h =12'-6"					
75																		h =12'-6"					
82																		h =12'-6"					
94																		h =12'-6"					
105																		h =12'-6"					
111																		h =12'-6"					
117																		h =12'-6"					
123																		h =12'-6"					
129																		h =12'-6"					
135																		h =12'-6"					
142																		h =12'-6"					

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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.	2014	38016-3206-04	52A

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.		
8																		h =12'-6"					
9																		h =12'-6"					
15																		h =12'-6"					
16																		h =12'-6"					
19																		h =12'-6"					
20																		h =12'-6"					
38																		h =12'-6"					
39																		h =12'-6"					
42																		h =12'-6"					
43																		h =12'-6"					
54																		h =12'-6"					
55																		h =12'-6"					
58																		h =12'-6"					
59																		h =12'-6"					
67																		h =12'-6"					
68																		h =12'-6"					
71																		h =12'-6"					
72																		h =12'-6"					
79	DO NOT / ENTER	R5-1		36"	36"									WHITE (REF.)	WHITE (REF.) RED (REF.)	0.100" SHEET ALUMINUM	P8	h =12'-6"				5'-0"	
80																		h =12'-6"					
90																		h =12'-6"					
91																		h =12'-6"					
103																		h =12'-6"					
104																		h =12'-6"					
107																		h =12'-6"					
108																		h =12'-6"					
115																		h =12'-6"					
116																		h =12'-6"					
119																		h =12'-6"					
120																		h =12'-6"					
127																		h =12'-6"					
128																		h =12'-6"					
131																		h =12'-6"					
132																		h =12'-6"					
140																		h =12'-6"					
141																		h =12'-6"					
11																		h =11'-6"					
12																		h =11'-6"					
13																		h =11'-6"					
14																		h =11'-6"					
21	WRONG WAY	R5-1A		36"	24"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	h =11'-6"				5'-0"	
22																		h =11'-6"					
36																		h =11'-6"					
37																		h =11'-6"					
44																		h =11'-6"					
45																		h =11'-6"					
52																		h =11'-6"					

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROLAND LEE JONES
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 17540
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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.	2014	38016-3206-04	52B

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.		
53	WRONG WAY	R5-1A		36"	24"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	h =11'-6"				5'-0"	
60																		h =11'-6"					
61																		h =11'-6"					
65																		h =11'-6"					
66																		h =11'-6"					
73																		h =11'-6"					
74																		h =11'-6"					
77																		h =11'-6"					
78																		h =11'-6"					
92																		h =11'-6"					
93																		h =11'-6"					
101																		h =11'-6"					
102																		h =11'-6"					
109																		h =11'-6"					
110																		h =11'-6"					
113																		h =11'-6"					
114																		h =11'-6"					
121																		h =11'-6"					
122																		h =11'-6"					
125																		h =11'-6"					
126																		h =11'-6"					
133																		h =11'-6"					
134																		h =11'-6"					
138																		h =11'-6"					
139																		h =11'-6"					
24																							MOUNTED BEHIND SIGN NO. 25
83																							MOUNTED BEHIND SIGN NO. 84
95																							MOUNTED BEHIND SIGN NO. 96
18	ONE WAY	R1-1L		36"	12"									BLACK	WHITE (REF.) BLACK	0.080" SHEET ALUMINUM	U1	h =11'-0"				5'-0"	
41																		h =11'-0"					
47																		h =11'-0"					
57																		h =11'-0"					
63																		h =11'-0"					
70																		h =11'-0"					
76																		h =11'-0"					
81																		h =11'-0"					
89																		h =11'-0"					
106																		h =11'-0"					
112																		h =11'-0"					
118																		h =11'-0"					
124																		h =11'-0"					
130																		h =11'-0"					
136																		h =11'-0"					
143	↓↑	W6-3		36"	36"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	h =13'-6"				5'-0"	

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ROLAND LEE JONES REGISTERED ENGINEER AGRICULTURE CAMPBELL COUNTY NO. 17648 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	38016-3206-04	52C

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

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
25	ONE WAY R6-1R		36"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P5	h =13'-0"				5'-0"	USE ITEM NO. 713-11.21 SLIP BASE SEE T-S-23A
84	STOP R1-1		36"	36"									WHITE (REF.)	BLACK RED (REF.)			h =13'-0"					
96	DIVIDED HIGHWAY W1-8L		30"	24"									BLACK	WHITE (REF.)			h =13'-0"					
26	STOP R1-1		36"	36"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	h =13'-6"				5'-0"	
27																	h =13'-6"					
28																	h =13'-6"					
148	ALL WAY R1-3P		30"	12"													h =13'-6"					
149																	h =13'-6"					
150																	h =13'-6"					
30	DEAD END W14-1		30"	30"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	P8	h =12'-6"				5'-0"	
151																	h =12'-6"					
152																	h =12'-6"					
31									SEE STD. DWG. T-S-18													TO BE PAID FOR UNDER ITEM NO. 713-16.07
32																						
153																						
154																						
10	JCT M2-1 / INTERSTATE 40 M1-1		21" / 24"	15" / 24"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	P8	h =12'-6"				5'-0"	
6	M3-2 EAST / M1-1 INTERSTATE 40 / M6-3 ↑ ; WEST M3-4 / M1-1 INTERSTATE 40 / M5-1 ↱		21" / 24" / 21"	15" / 24" / 15"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	P8	h_1=12'-6" h_2=13'-0"				5'-0"	
1	NORTH M3-3		24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	h =12'-6"				5'-0"	
51	222 TN-6B		30"	24"													h =12'-6"					
160																	h =12'-6"					
48	SOUTH M3-1		24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	h =12'-6"				5'-0"	
156	222 TN-6B		30"	24"													h =12'-6"					
3	AS REQUIRED N↔S TN-39		30"	15"							N↔S		BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	h =12'-6"				5'-0"	
85											N↔S						h =12'-6"					
97	222 TN-6B		30"	24"							S↔N						h =12'-6"					
157											N↔S						h =12'-6"					
49	HAYWOOD CO TN-2		60"	18"									WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U1	h_1=11'-0" h_2=11'-6"				5'-0"	
50	FAYETTE CO TN-2		54"	18"									WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U1	h_1=11'-0" h_2=11'-6"				5'-0"	
2	↑ Nashville / Memphis → D1-2		8'-0"	4'-0"	9"	1"	8" / 8"	6" / 6"		EMOD		TYPE "A"	WHITE (REF.)	GREEN (REF.)	4-12" ALUMINUM EXTRUSIONS	S4X7.7	h_1=14'-9" h_2=15'-3"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	

UNOFFICIAL SET

NOT FOR BIDDING

U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

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ROLAND LEE JONES REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 17640 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

Index Of Sheets

SHEET NO.	DESCRIPTION
53	TITLE SHEET
53A,53D,53G,53J,53M 53P,53S,53V,53Y,53AB 53AE,53AH,53AK,53AN,53AQ	PRESENT LAYOUTS
53B,53E,53H,53K,53N 53Q,53T,53W,53Z,53AC 53AF,53AI,53AL,53AO,53AR	SOILS LAYOUTS
53C,53F,53I,53L,53O 53R,53U,53X,53AA,53AD 53AG,53AJ,53AM,53AP,53AS	SOILS PROFILES
53AT,53AU	SIDE ROADS PROFILES
53AV,53AW,53AX,53AY	TYPICAL CROSS SECTIONS
53AZ,53BA	TYPICAL CROSS-SECTIONS (2H:1V)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

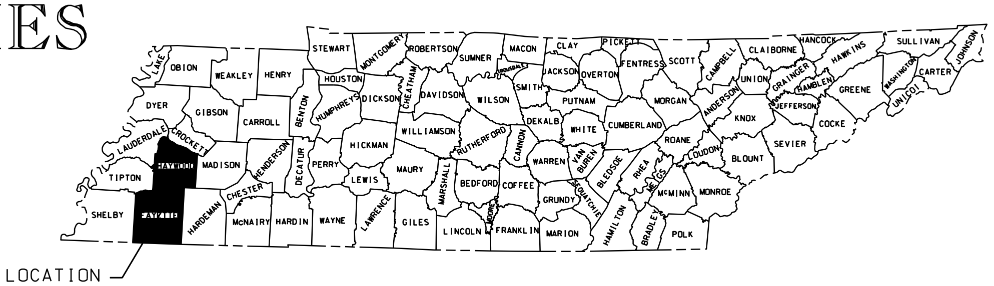
HAYWOOD-FAYETTE COUNTIES

SOIL SHEETS
SR-222

FROM NORTH OF I-40
TO SOUTH OF CAMP GROUND RD
CONSTRUCTION

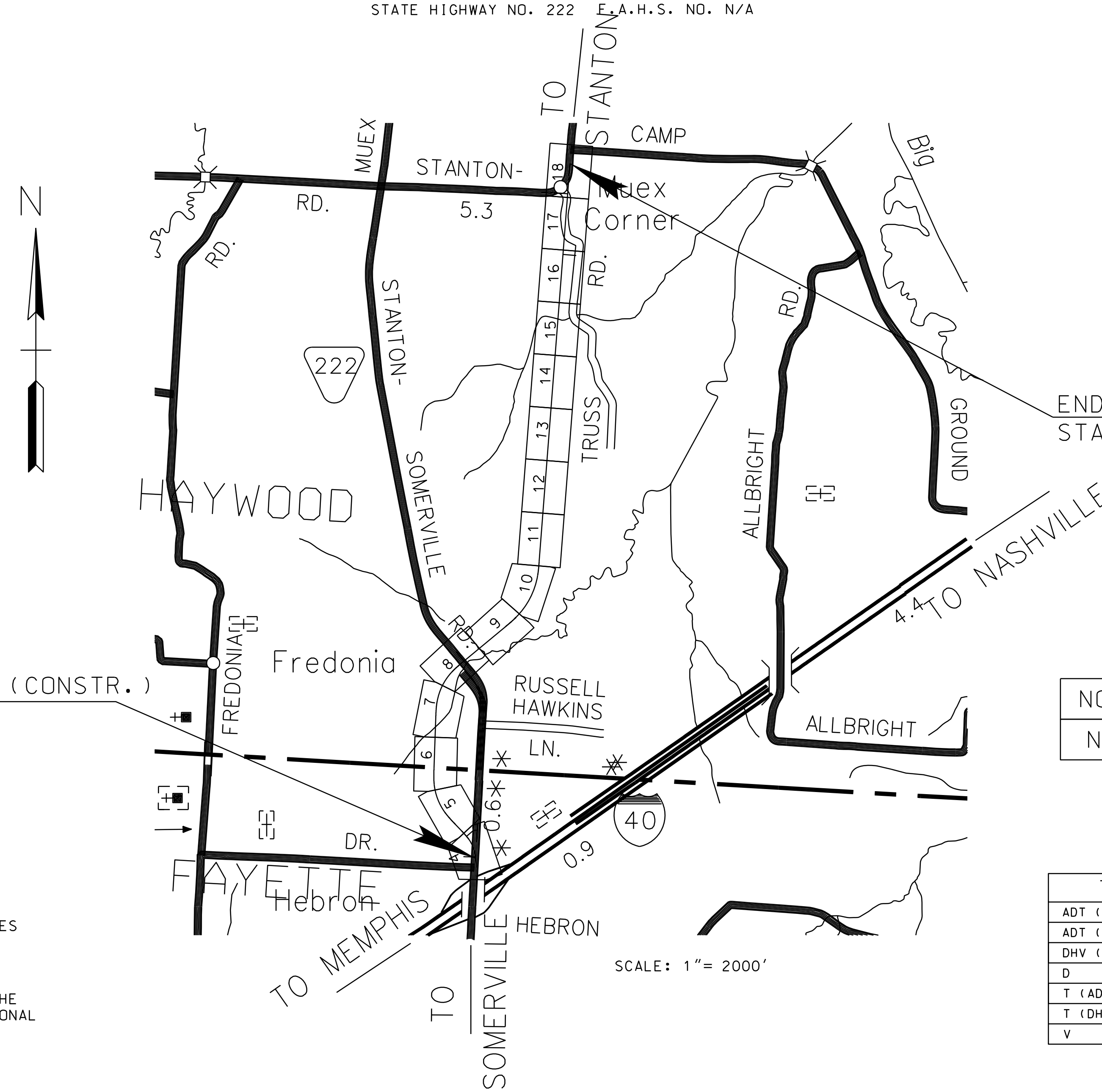
STATE HIGHWAY NO. 222 F.A.H.S. NO. N/A

TENN.	YEAR	SHEET NO.
	2014	53
FED. AID PROJ. NO.	N.A.	
STATE PROJ. NO.	38016-3206-04	



PROJECT LOCATION

UNOFFICIAL SET
NOT FOR BIDDING



END PROJ. NO. 38016-3206-04 (CONSTR.)
STA. 440+50.00

BEGIN PROJ. NO. 38016-3206-04 (CONSTR.)
STA. 254+70.46

SCALE: 1"= 2000'

PROJECT LENGTH 3.491 MILES

NO EXCLUSIONS
NO EQUATIONS

TRAFFIC DATA	
ADT (2014)	14490
ADT (2034)	15960
DHV (2034)	1423
D	55 - 45
T (ADT)	10 %
T (DHV)	7 %
V	55 MPH

ORIGINAL SURVEY: 09/26/2013

SEALED BY

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 MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT C.E. MANAGER 1 OR
TDOT DESIGN MANAGER 1 TABITHA T. CAVANESS, P.E.

DESIGNED BY THY, INC.

DESIGNER TECK TANG CHECKED BY KENNY YOUNG

P.E. NO. 38016-3206-04

PIN NO. 117402.00

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53A
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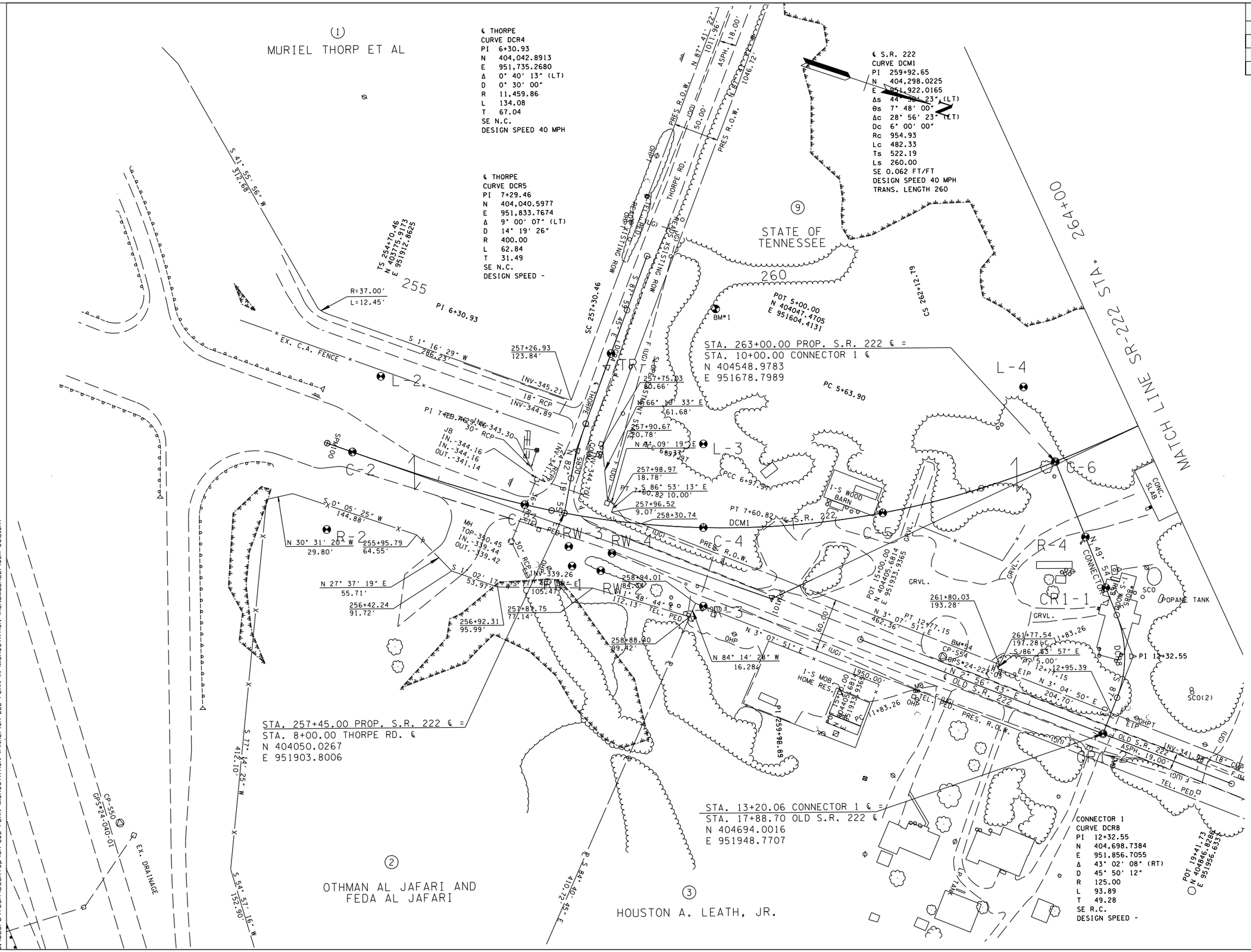


UNOFFICIAL SET

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

PRESENT LAYOUT

STA. 255+00 TO STA. 264+00

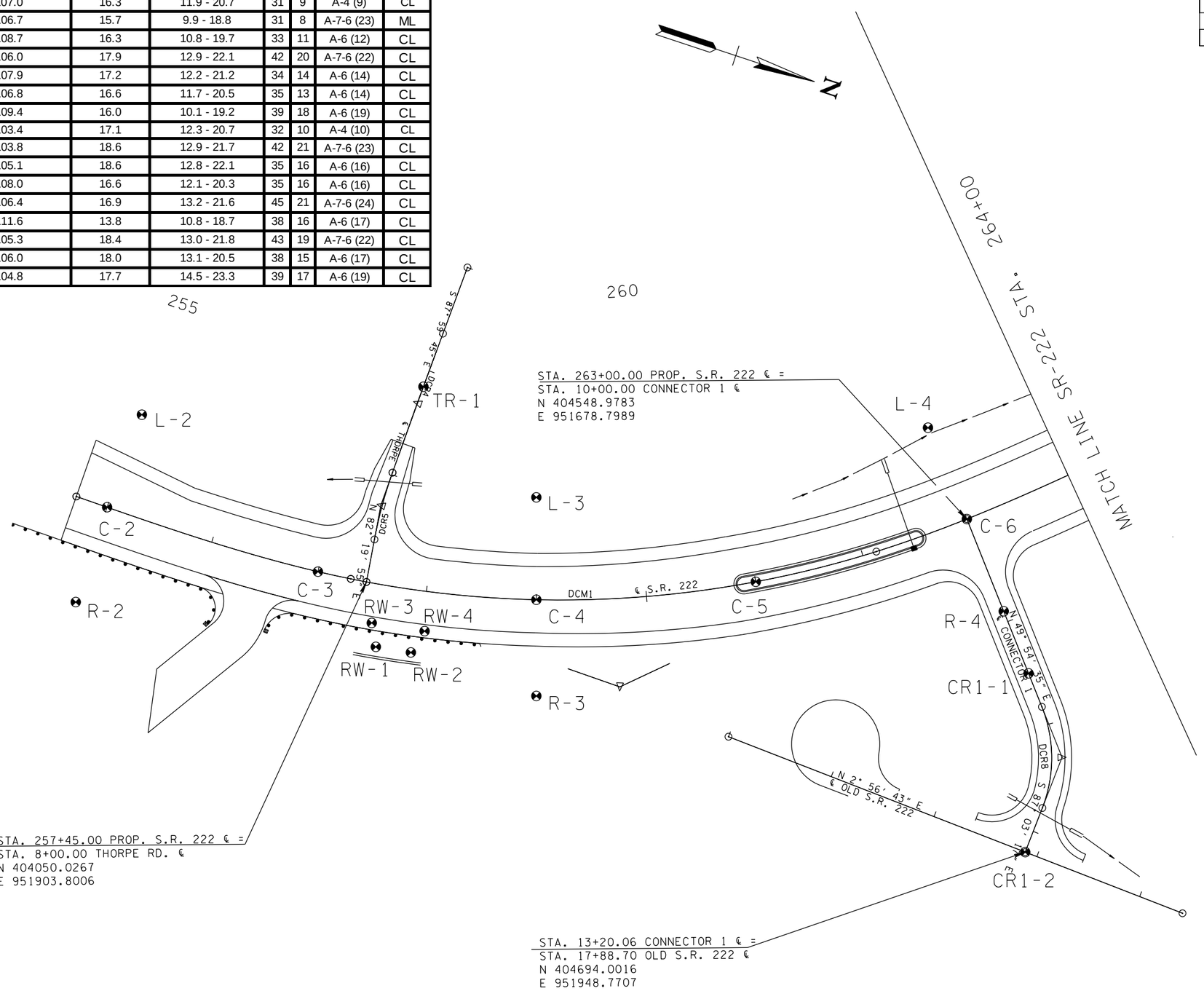
SCALE: 1"=100'

5/3/2014 10:42:15 AM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53A-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53B
.	.	.	.
.	.	.	.
.	.	.	.

PROCTOR NO.	DESCRIPTION	MAX. UNIT WT. (PCF)	OPT. M/C (%)	MOIST. RANGE (%)	LL	PI	AASHTO	USCS
1	LEAN CLAY	107.0	16.3	11.9 - 20.7	31	9	A-4 (9)	CL
2	SILT	106.7	15.7	9.9 - 18.8	31	8	A-7-6 (23)	ML
3	LEAN CLAY	108.7	16.3	10.8 - 19.7	33	11	A-6 (12)	CL
4	LEAN CLAY	106.0	17.9	12.9 - 22.1	42	20	A-7-6 (22)	CL
5	LEAN CLAY	107.9	17.2	12.2 - 21.2	34	14	A-6 (14)	CL
6	LEAN CLAY	106.8	16.6	11.7 - 20.5	35	13	A-6 (14)	CL
7	LEAN CLAY	109.4	16.0	10.1 - 19.2	39	18	A-6 (19)	CL
8	LEAN CLAY	103.4	17.1	12.3 - 20.7	32	10	A-4 (10)	CL
9	LEAN CLAY	103.8	18.6	12.9 - 21.7	42	21	A-7-6 (23)	CL
10	LEAN CLAY	105.1	18.6	12.8 - 22.1	35	16	A-6 (16)	CL
11	LEAN CLAY	108.0	16.6	12.1 - 20.3	35	16	A-6 (16)	CL
12	LEAN CLAY	106.4	16.9	13.2 - 21.6	45	21	A-7-6 (24)	CL
13	LEAN CLAY	111.6	13.8	10.8 - 18.7	38	16	A-6 (17)	CL
14	LEAN CLAY	105.3	18.4	13.0 - 21.8	43	19	A-7-6 (22)	CL
15	LEAN CLAY	106.0	18.0	13.1 - 20.5	38	15	A-6 (17)	CL
16	LEAN CLAY	104.8	17.7	14.5 - 23.3	39	17	A-6 (19)	CL

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-2	1	0-28
C-3	12	0-23
C-4	12	0-13
C-5	10	0-18
C-6	2	0-14
CR1-1	11	0-15
CR1-2	11	0-13
L-2	1	0-18
L-3	12	0-13
L-4	2	0-15
R-2	1	0-30
R-3	12	0-18
R-4	2	0-13
TR-1	12	0-8



CBR NO.	SAMPLE NO.	DESCRIPTION	PROC. DENS.	OPT. M/C	MOIST RANGE	LL	PI	AASHTO	USCS	% COMPACTION	CBR VALUE %
1	3	LEAN CLAY	108.7	16.3	10.8 - 19.7	33	11	A-6 (12)	CL	99%	2.8
2	4	LEAN CLAY	106	17.9	12.9 - 22.1	42	20	A-7-6 (22)	CL	96%	5.0
3	8	LEAN CLAY	103.4	17.1	12.3 - 20.7	32	10	A-4 (10)	CL	96%	5.0
4	10	LEAN CLAY	105.1	18.6	12.8 - 22.1	35	16	A-6 (16)	CL	93%	4.0
5	13	LEAN CLAY	111.6	13.8	10.8 - 18.7	38	16	A-6 (17)	CL	94%	3.5

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

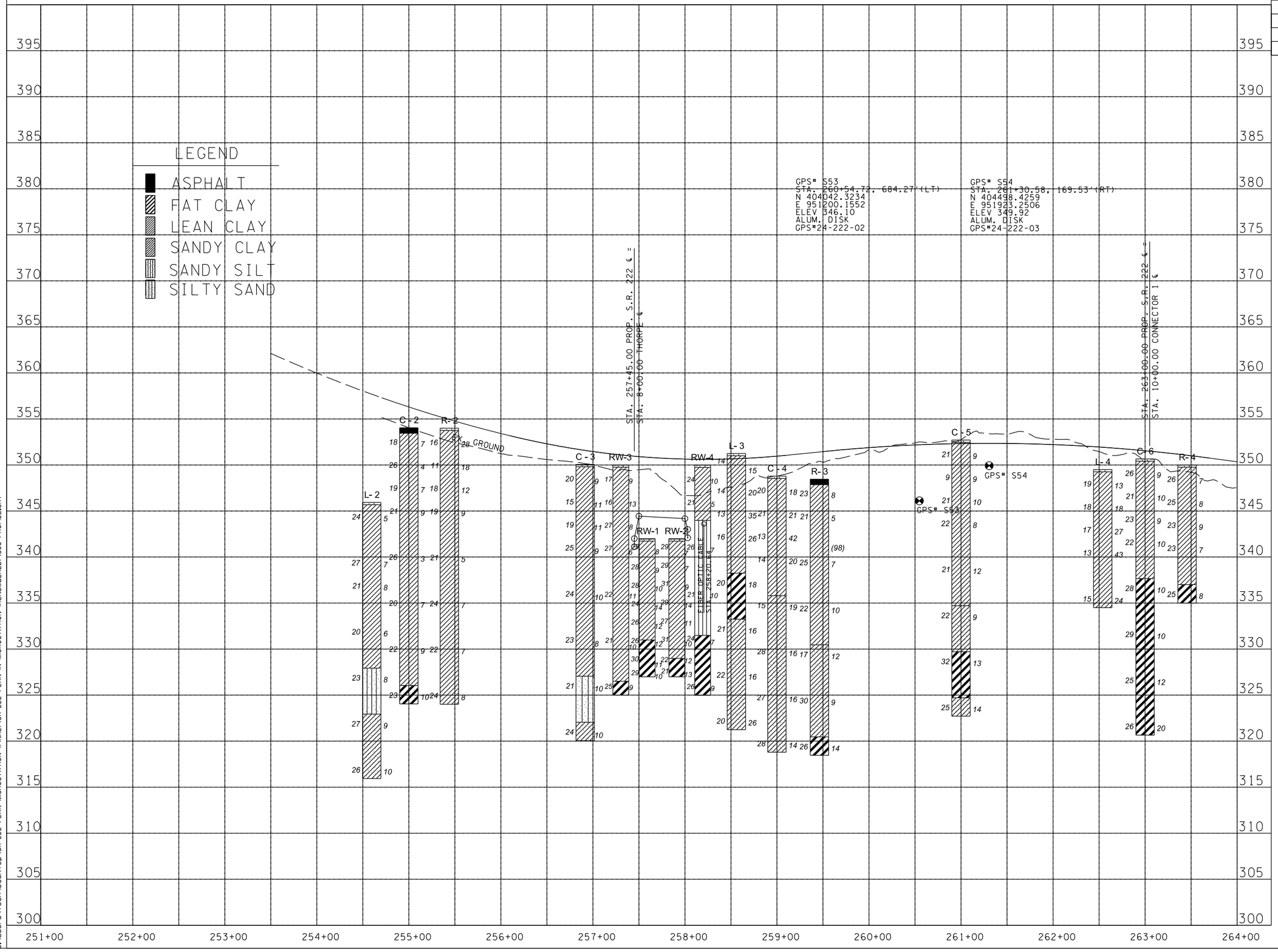
PROPOSED LAYOUT

STA. 255+00 TO STA. 264+00

SCALE: 1"=100'

3/3/2014 10:57:56 AM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53B-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2013	38016-3206-04	53C



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 251+00 TO STA. 264+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 11:04:41 AM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53C-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53D
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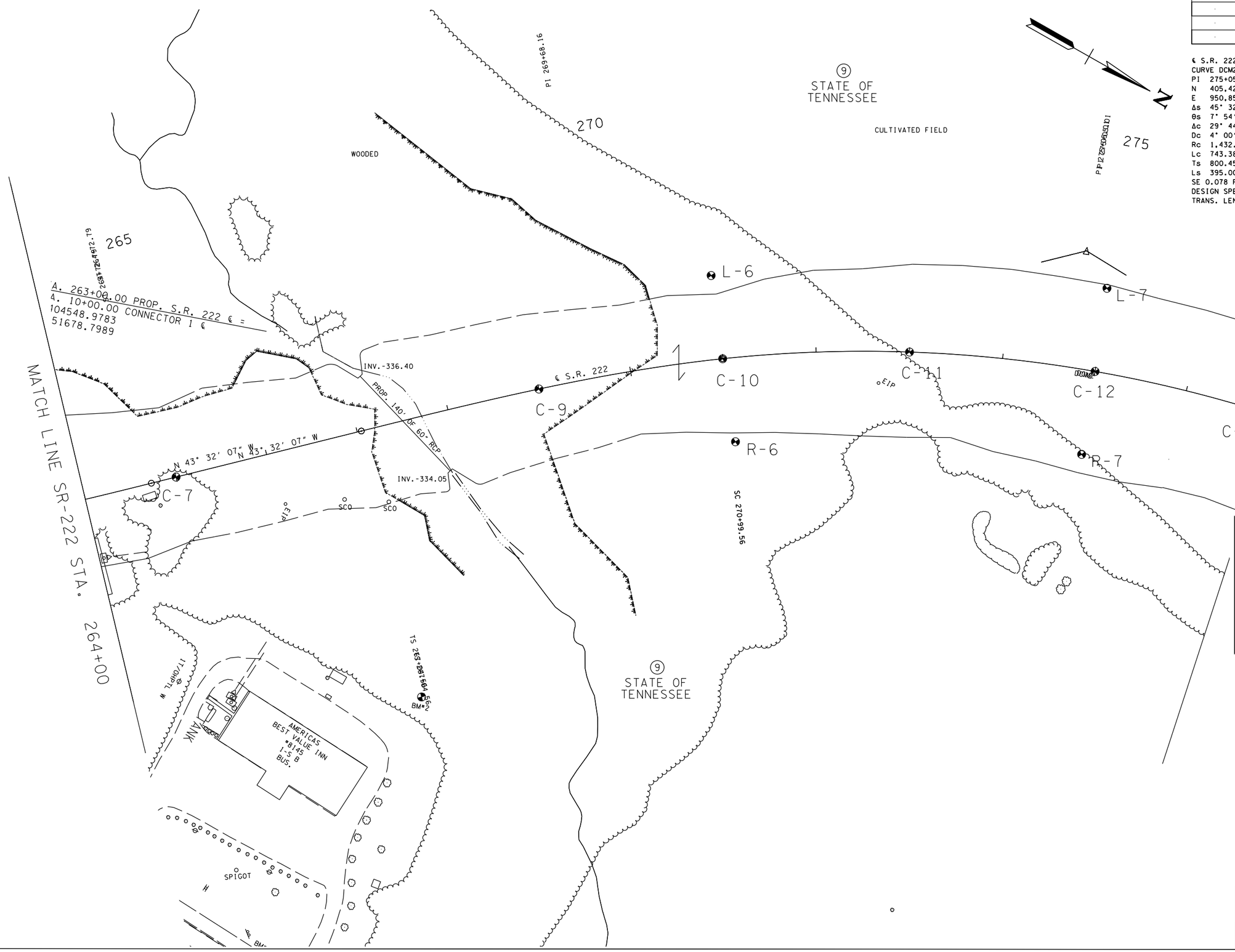
℄ S.R. 222
CURVE DCM2
PI 275+05.01
N 405,424.8895
E 950,851.3402
Δs 45° 32′ 07″ (RT)
θs 7° 54′ 00″
Δc 29° 44′ 07″ (RT)
Dc 4° 00′ 00″
Rc 1,432.39
Lc 743.38
Ts 800.45
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 395



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 264+00 TO STA. 277+00

SCALE: 1"=100'

3/3/2014 12:20:22 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53D-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53E
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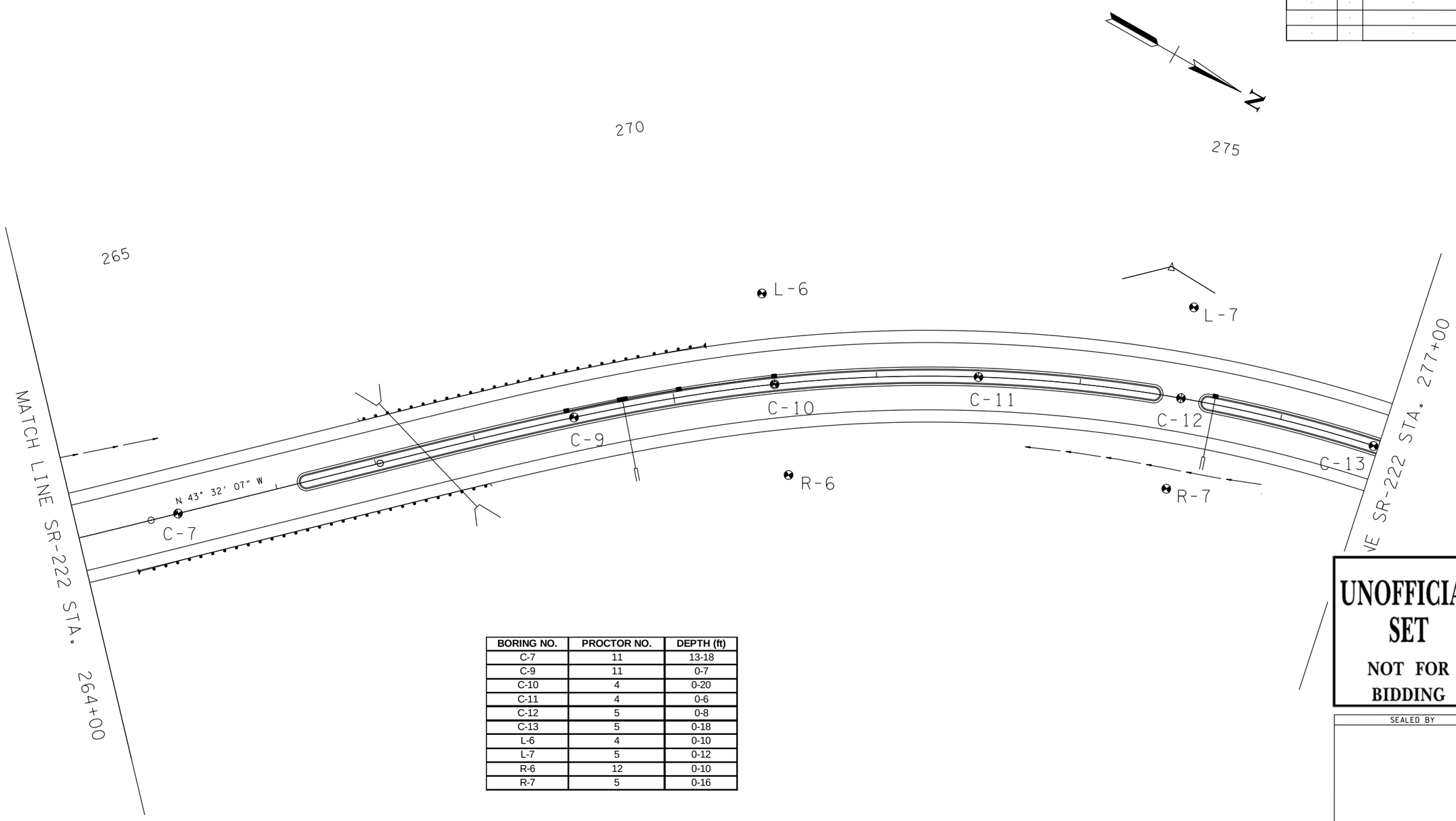

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-7	11	13-18
C-9	11	0-7
C-10	4	0-20
C-11	4	0-6
C-12	5	0-8
C-13	5	0-18
L-6	4	0-10
L-7	5	0-12
R-6	12	0-10
R-7	5	0-16

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 264+00 TO STA. 277+00

SCALE: 1"=100'

3/3/2014 12:23:06 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53E-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53F
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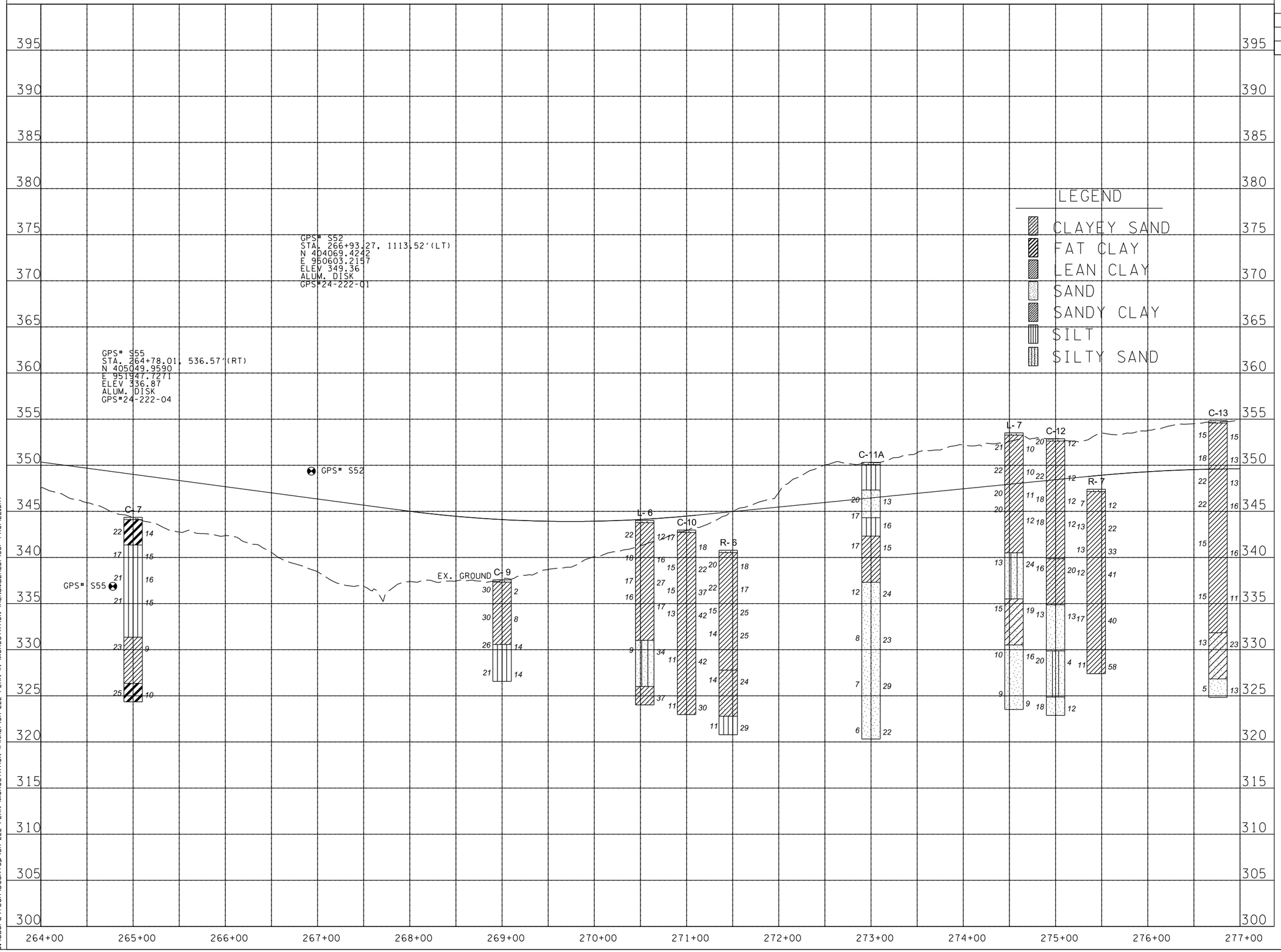

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 264+00 TO STA. 277+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 12:26:19 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53F-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53G
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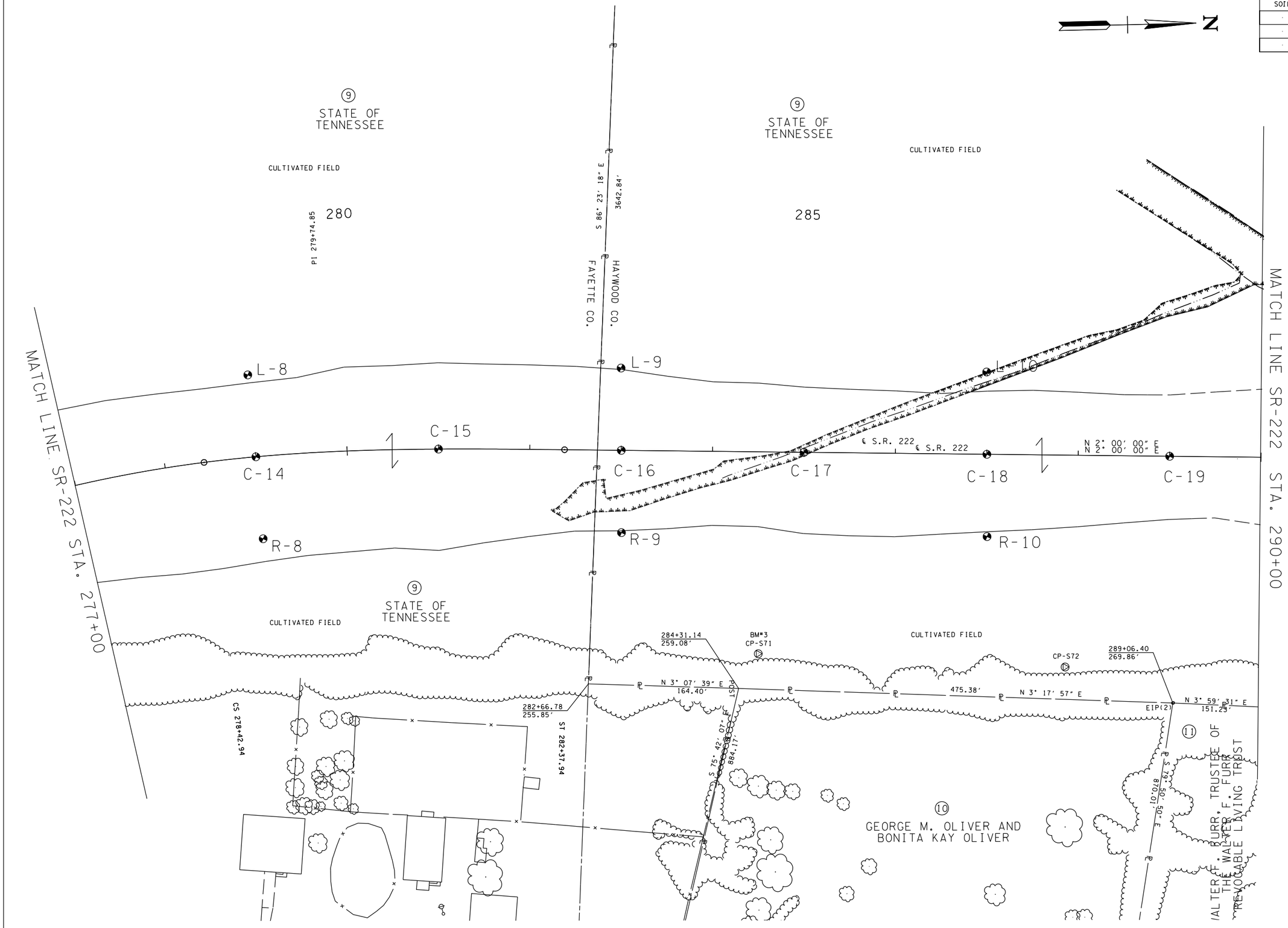

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 277+00 TO STA. 290+00

SCALE: 1"=100'

3/3/2014 12:28:32 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53G-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53H
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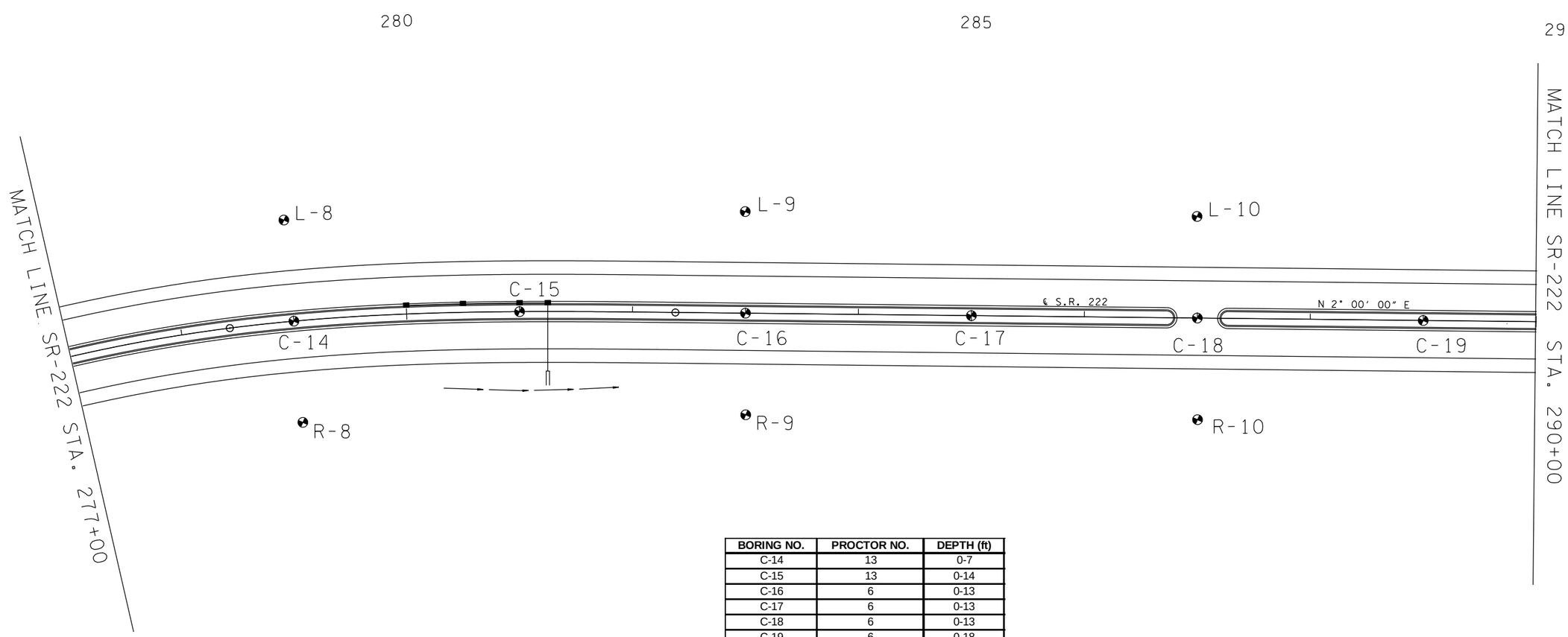

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-14	13	0-7
C-15	13	0-14
C-16	6	0-13
C-17	6	0-13
C-18	6	0-13
C-19	6	0-18
L-8	13	0-13
L-9	6	0-8
L-10	6	0-13
R-8	13	0-12
R-9	6	0-13
R-10	6	0-13

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 277+00 TO STA. 290+00

SCALE: 1"=100'

3/3/2014 12:30:22 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53H-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53I
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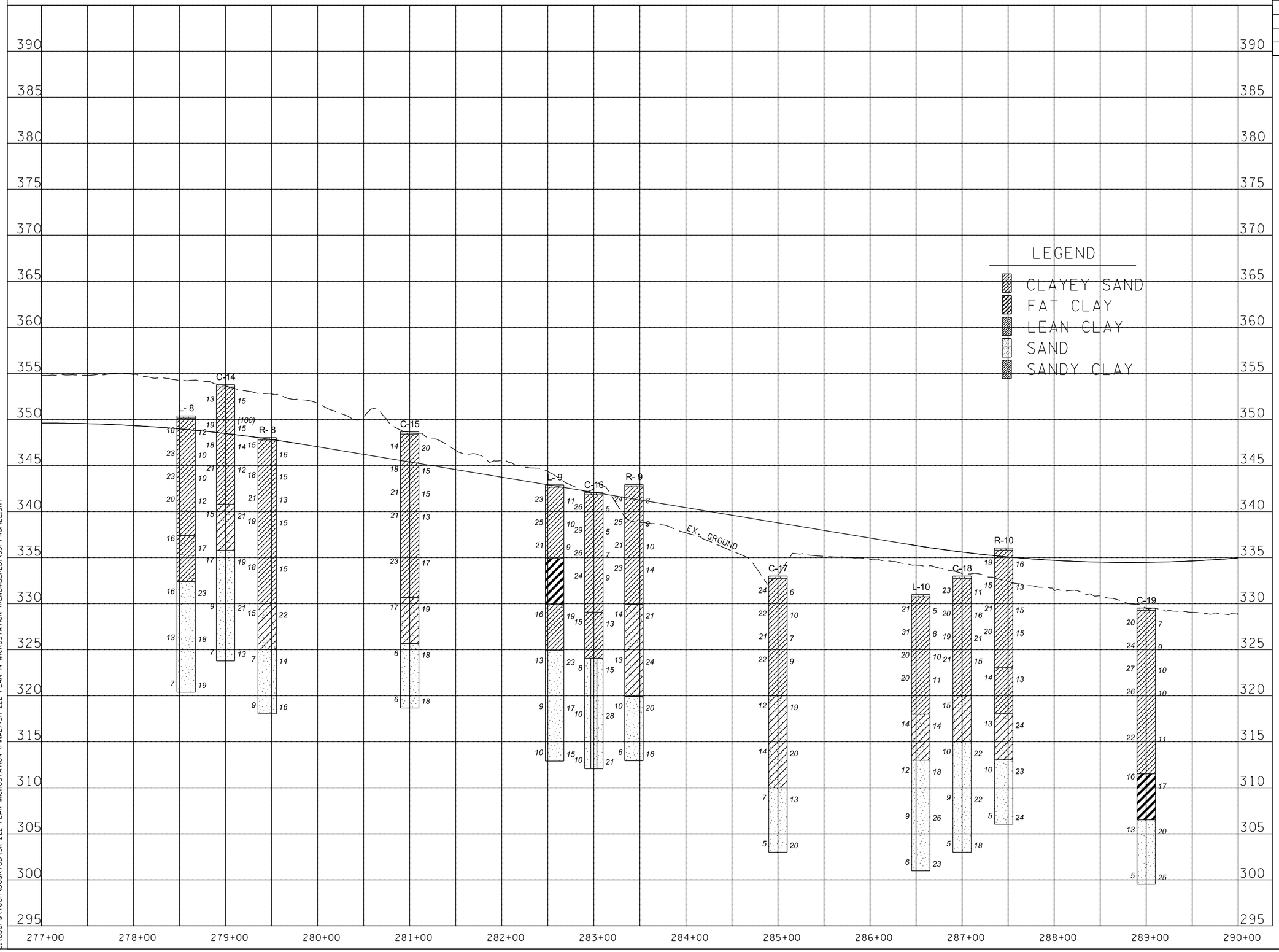

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 277+00 TO STA. 290+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

9/3/2014 12:33:14 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53I-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53J
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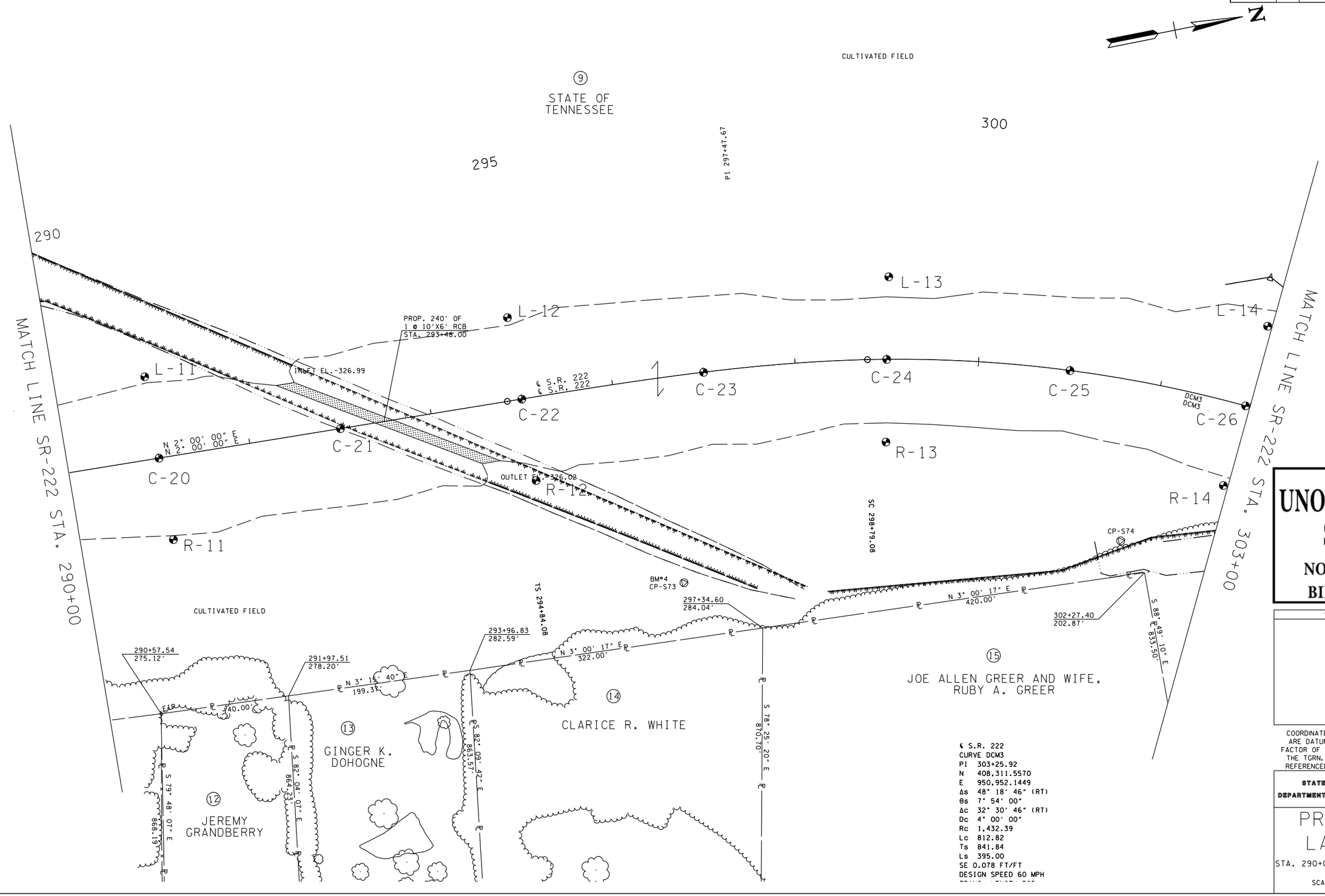

℄ S.R. 222
CURVE DCM3
PI 303+25.92
N 408,311.5570
E 950,952.1449
Δs 48° 18' 46" (RT)
Θs 7° 54' 00"
Δc 32° 30' 46" (RT)
Dc 4° 00' 00"
Rc 1,432.39
Lc 812.82
Ts 841.84
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 290+00 TO STA. 303+00

SCALE: 1"=100'

3/3/2014 12:35:09 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53J-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53K
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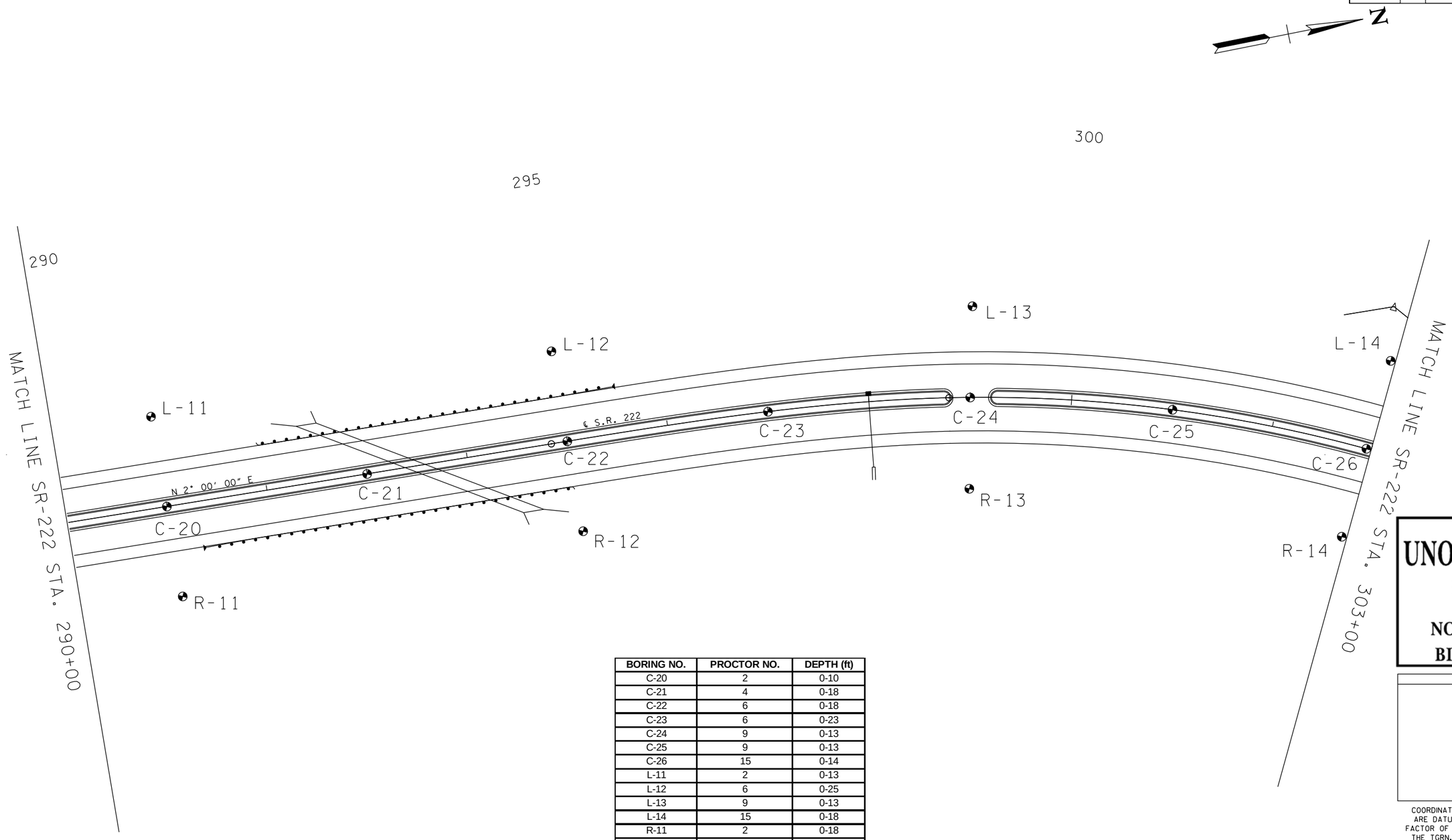

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-20	2	0-10
C-21	4	0-18
C-22	6	0-18
C-23	6	0-23
C-24	9	0-13
C-25	9	0-13
C-26	15	0-14
L-11	2	0-13
L-12	6	0-25
L-13	9	0-13
L-14	15	0-18
R-11	2	0-18
R-12	6	0-23
R-13	9	0-13
R-14	15	0-13

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 290+00 TO STA. 303+00

SCALE: 1"=100'

3/3/2014 12:38:04 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53K-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53L
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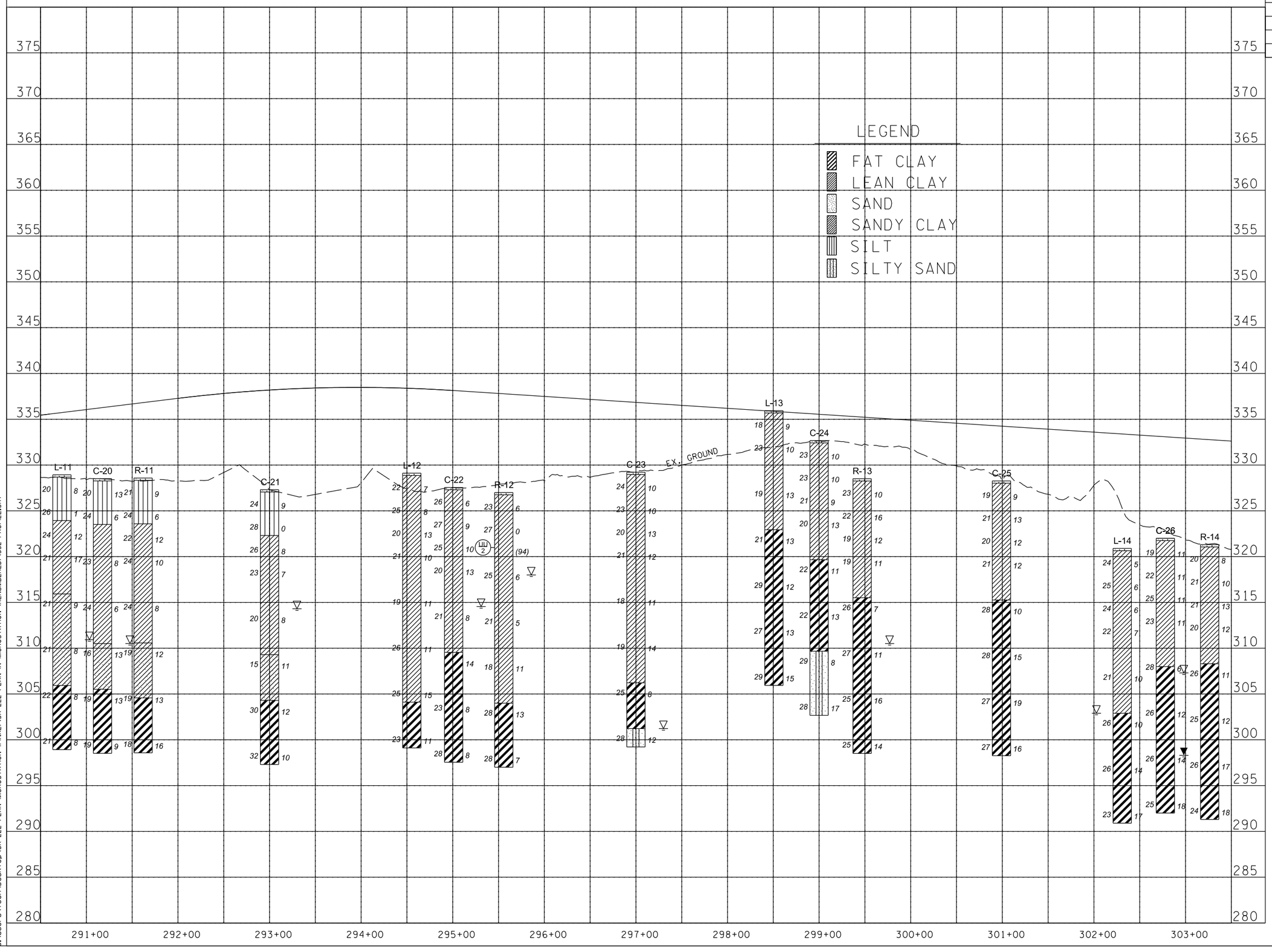


UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

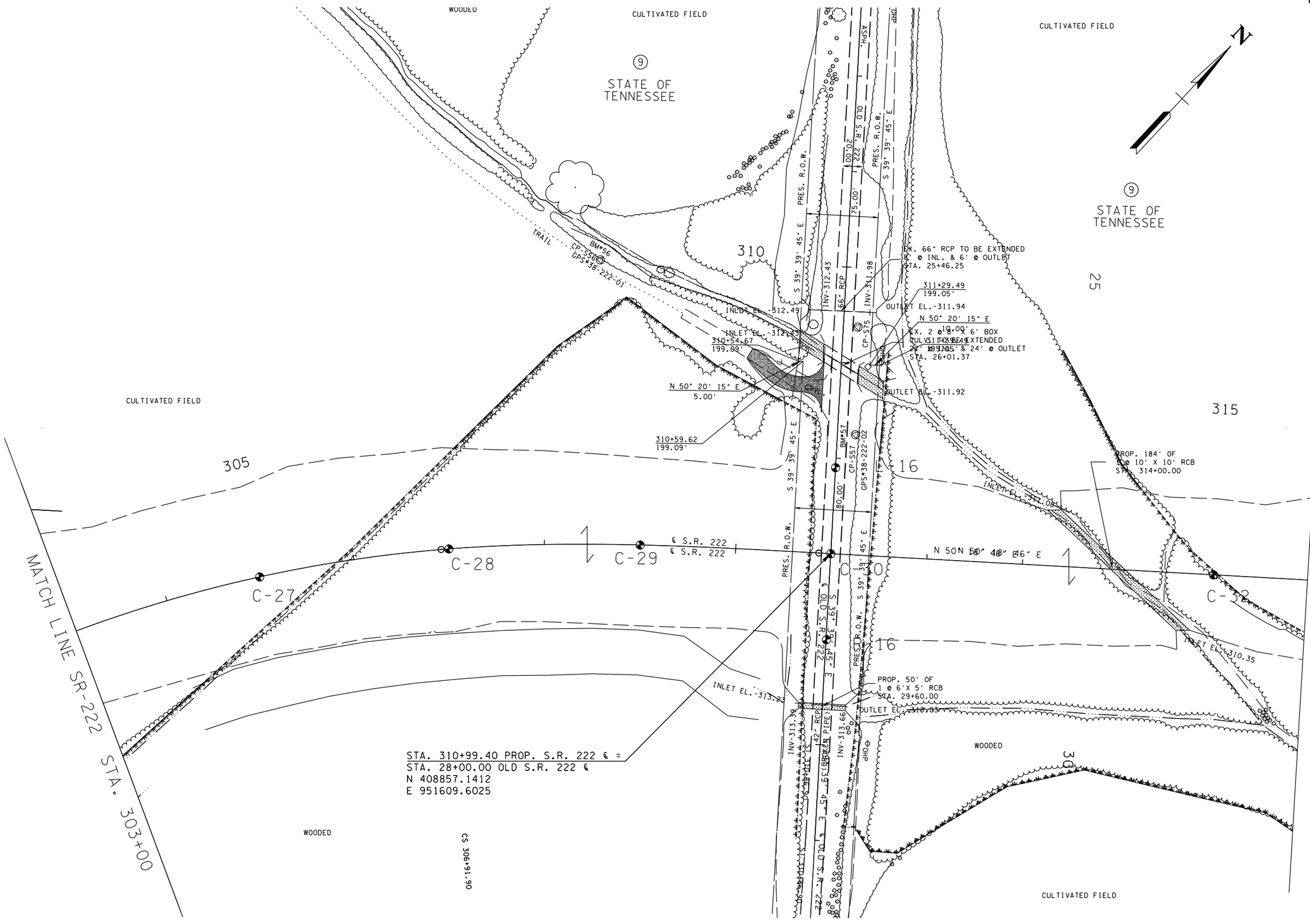
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 290+00 TO STA. 303+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 12:44:02 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53L-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53M



STA. 310+99.40 PROP. S.R. 222 ℄ =
STA. 28+00.00 OLD S.R. 222 ℄
N 408857.1412
E 951609.6025

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 303+00 TO STA. 316+00

SCALE: 1"=100'

3/3/2014 12:46:29 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53M-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53N
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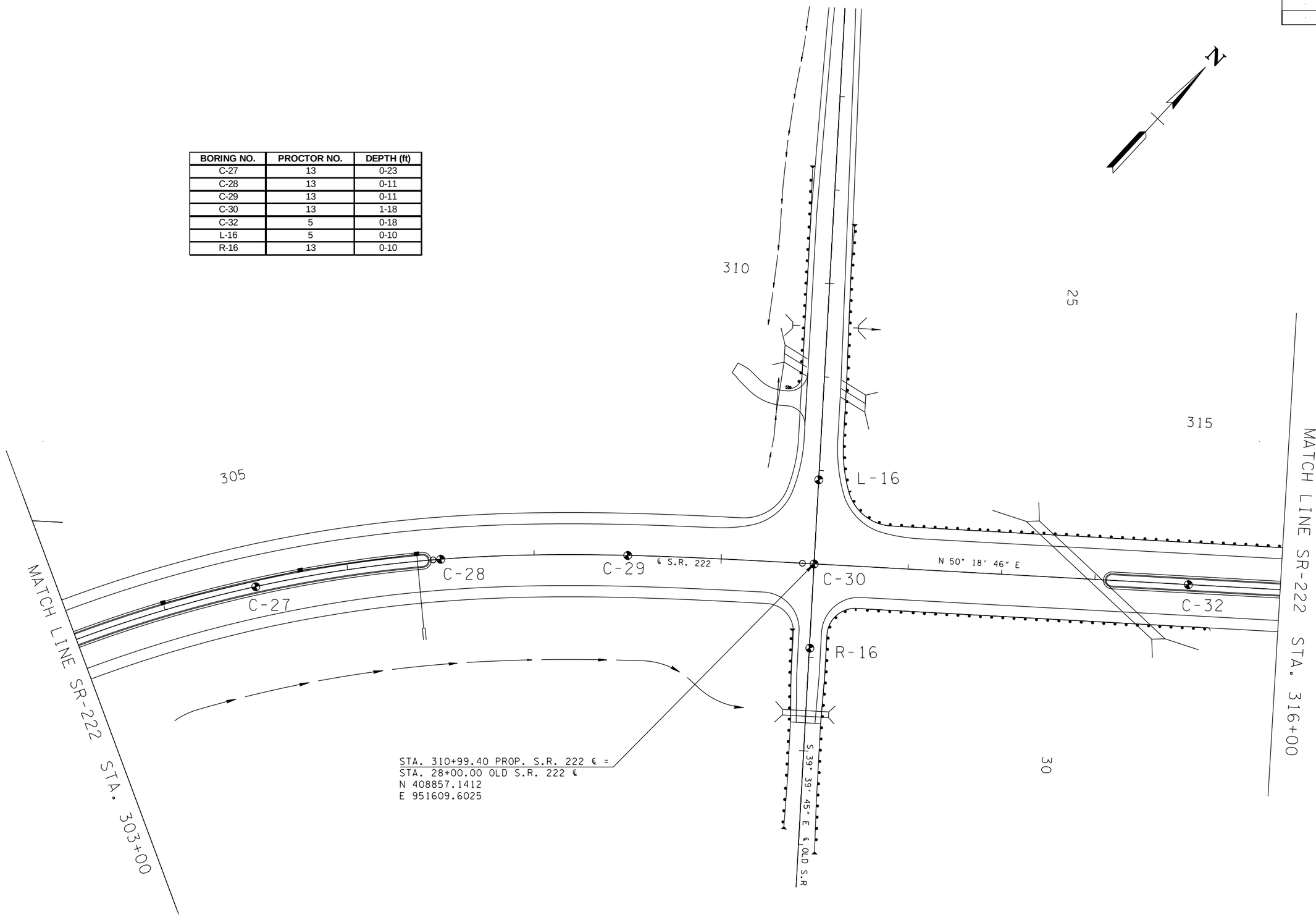
BORING NO.	PROCTOR NO.	DEPTH (ft)
C-27	13	0-23
C-28	13	0-11
C-29	13	0-11
C-30	13	1-18
C-32	5	0-18
L-16	5	0-10
R-16	13	0-10



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

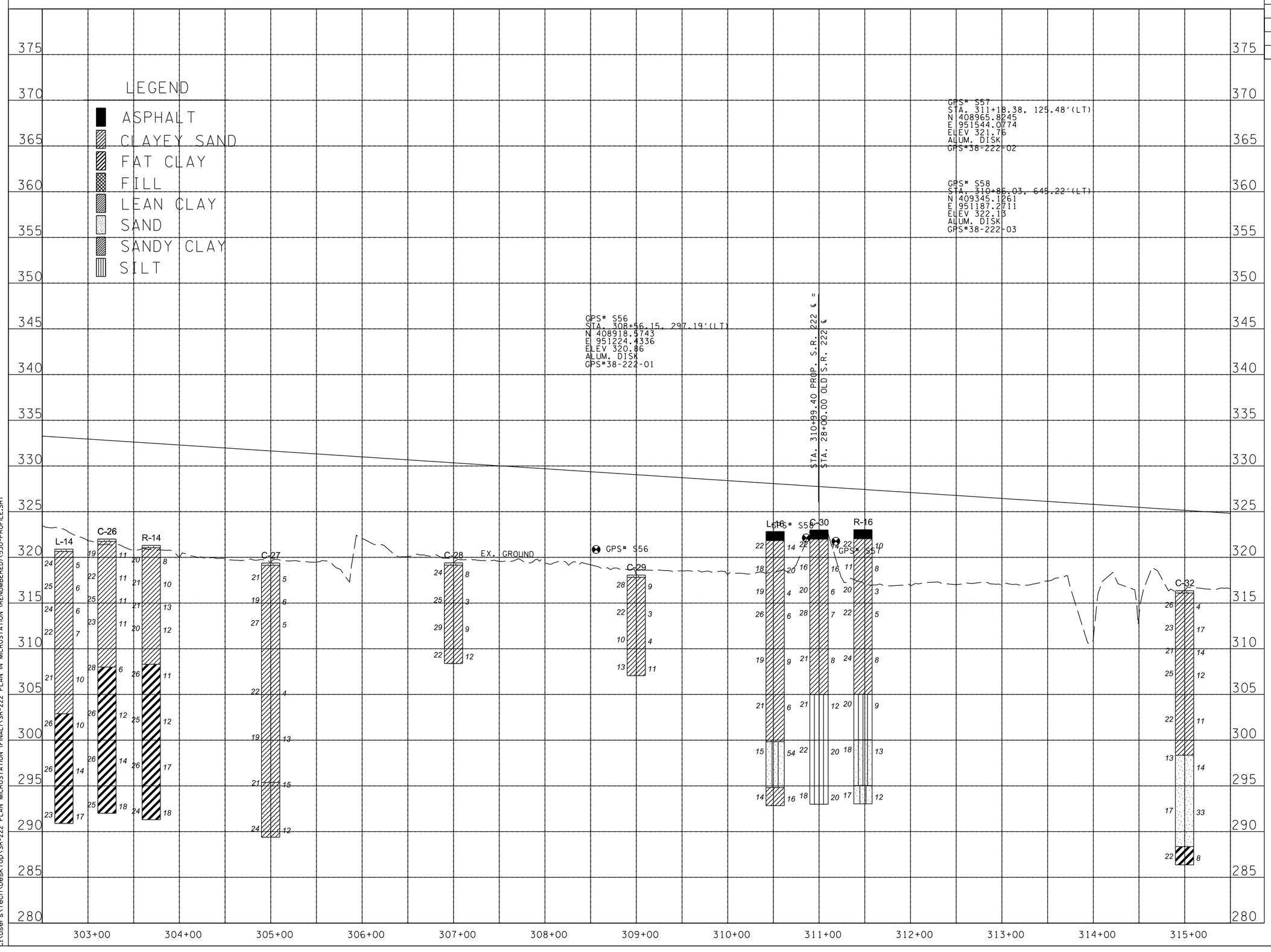
PROPOSED LAYOUT

STA. 303+00 TO STA. 316+00

SCALE: 1"=100'

3/3/2014 12:48:37 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53N-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	530



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 303+00 TO STA. 315+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 12:52:06 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\530-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53P
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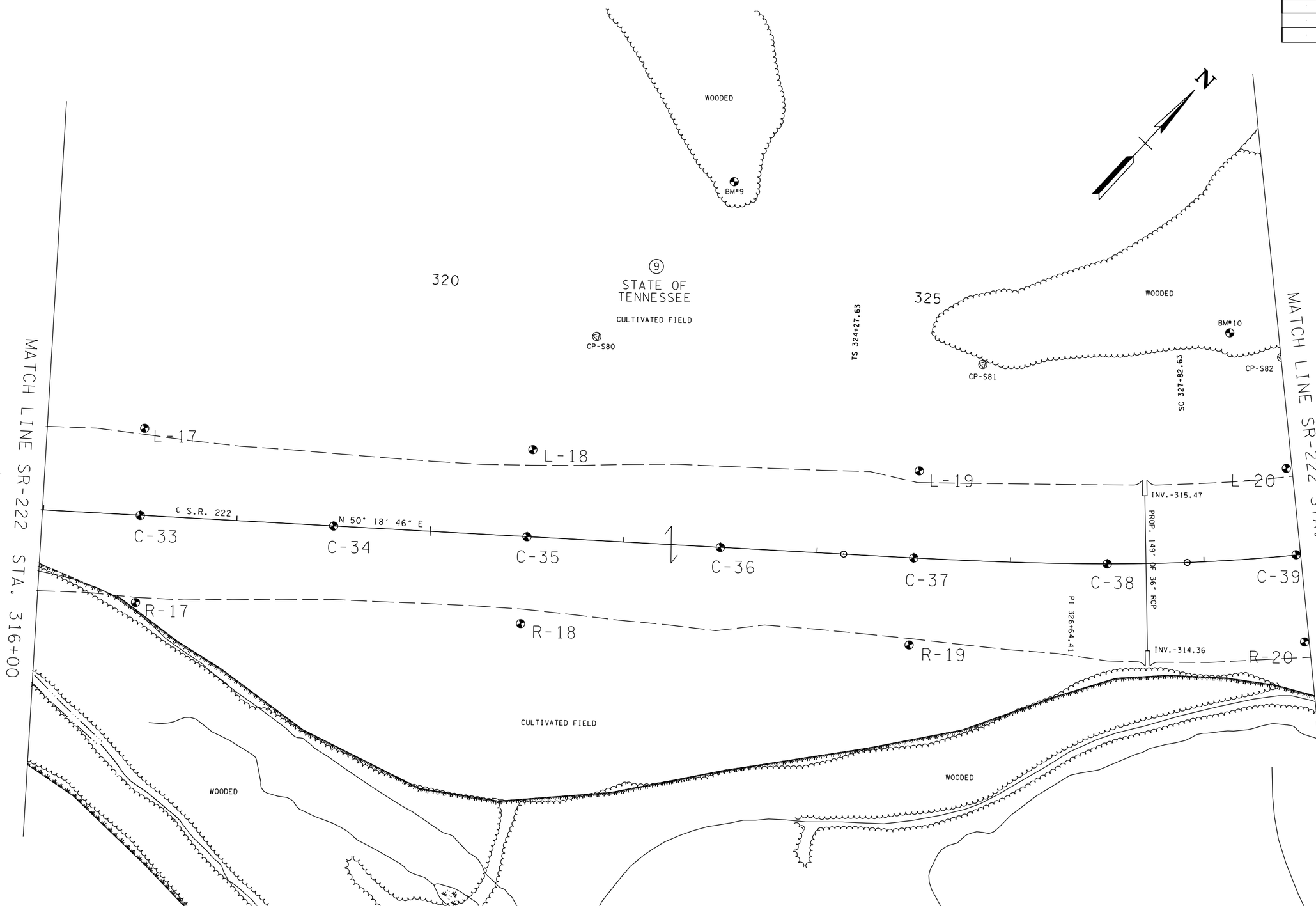

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 316+00 TO STA. 329+00

SCALE: 1"=100'

3/3/2014 12:53:58 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53P-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	530
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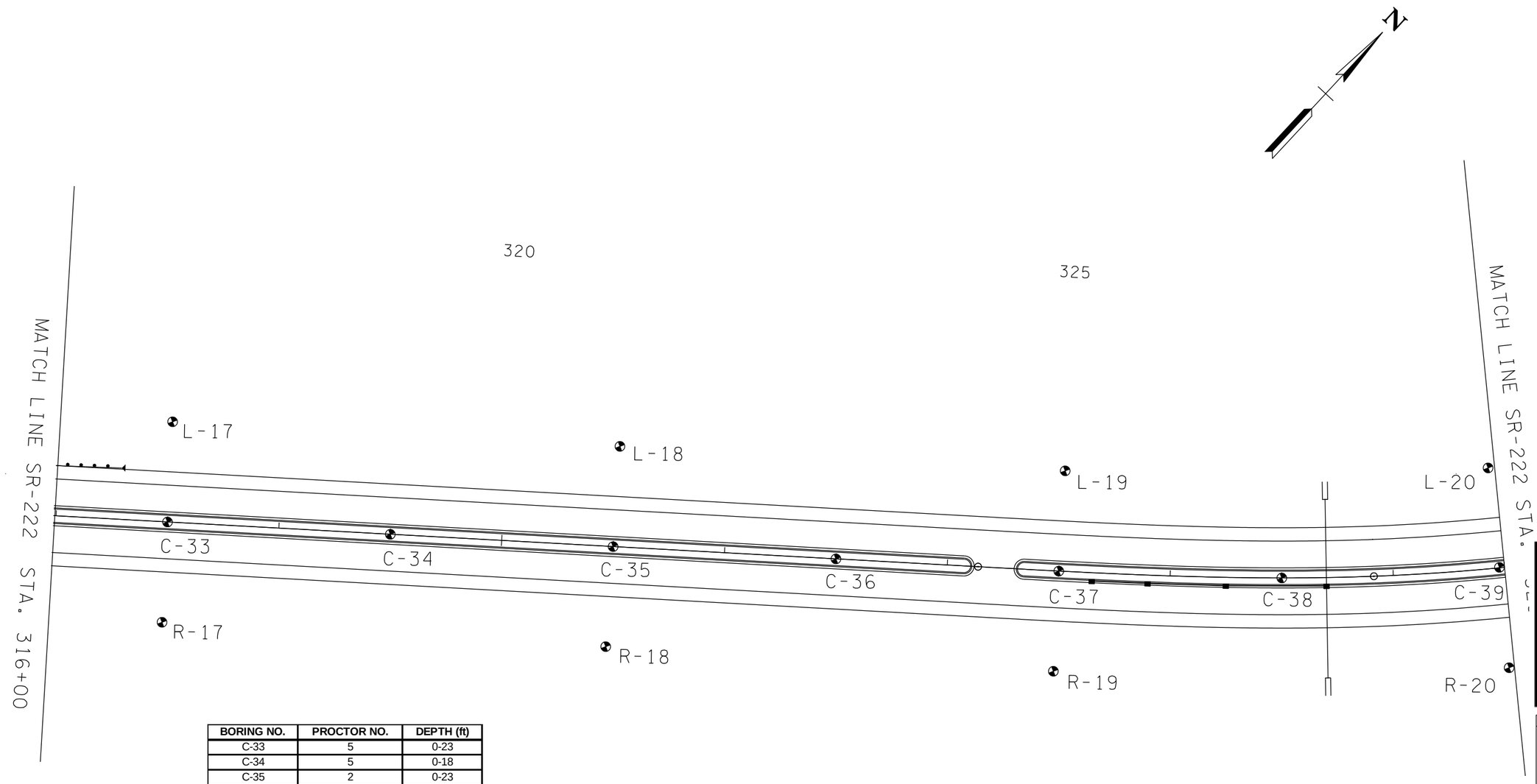

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-33	5	0-23
C-34	5	0-18
C-35	2	0-23
C-36	3	0-30
C-37	1	0-18
C-38	1	0-28
C-39	6	0-28
L-17	5	0-23
L-18	3	0-19
L-19	1	0-28
L-20	6	0-28
R-17	5	0-18
R-18	2	0-23
R-19	1	0-23
R-20	1	0-28

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. 316+00 TO STA. 329+00

SCALE: 1"=100'

3/3/2014 12:56:13 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\530-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53R
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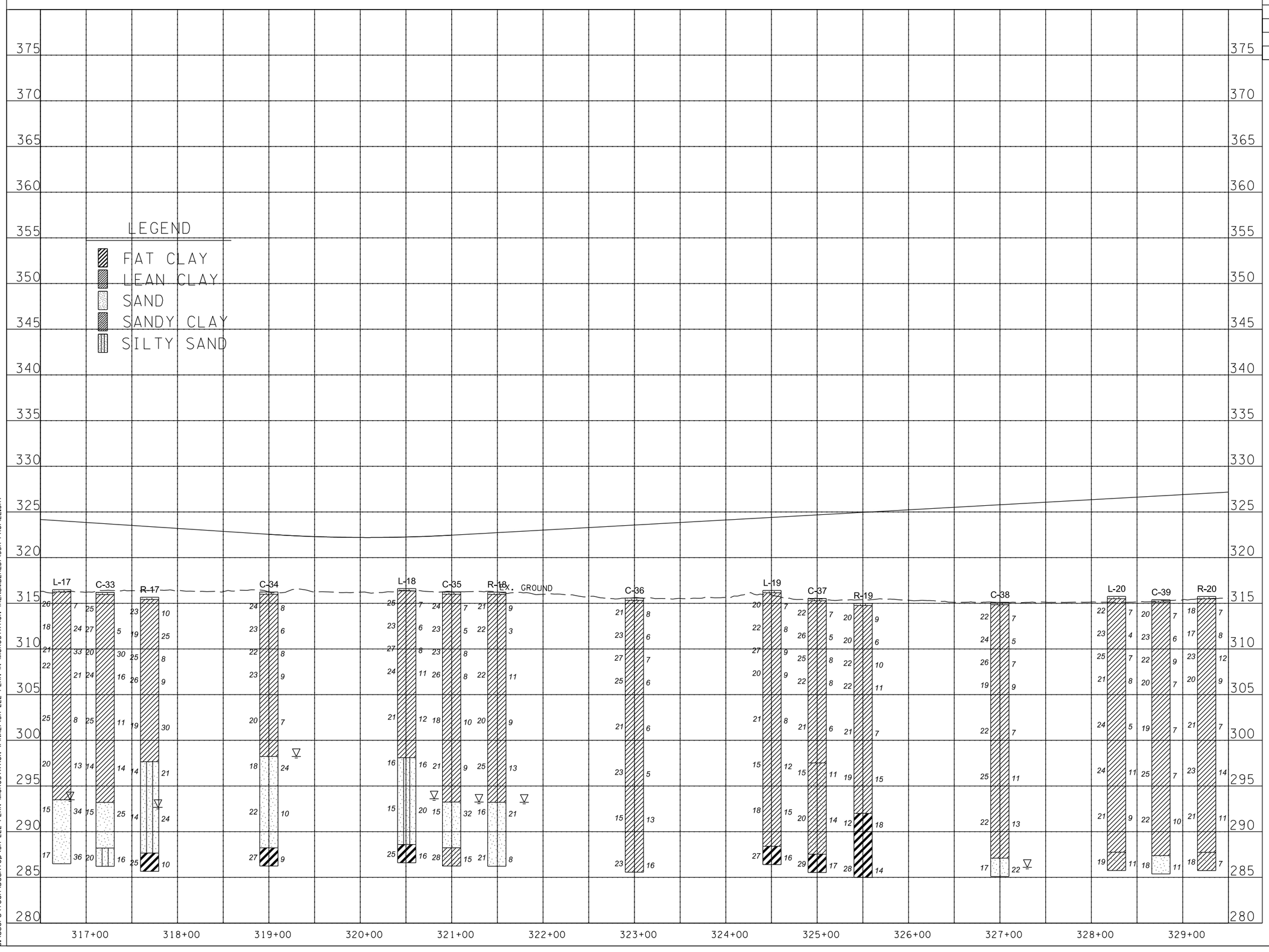


UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

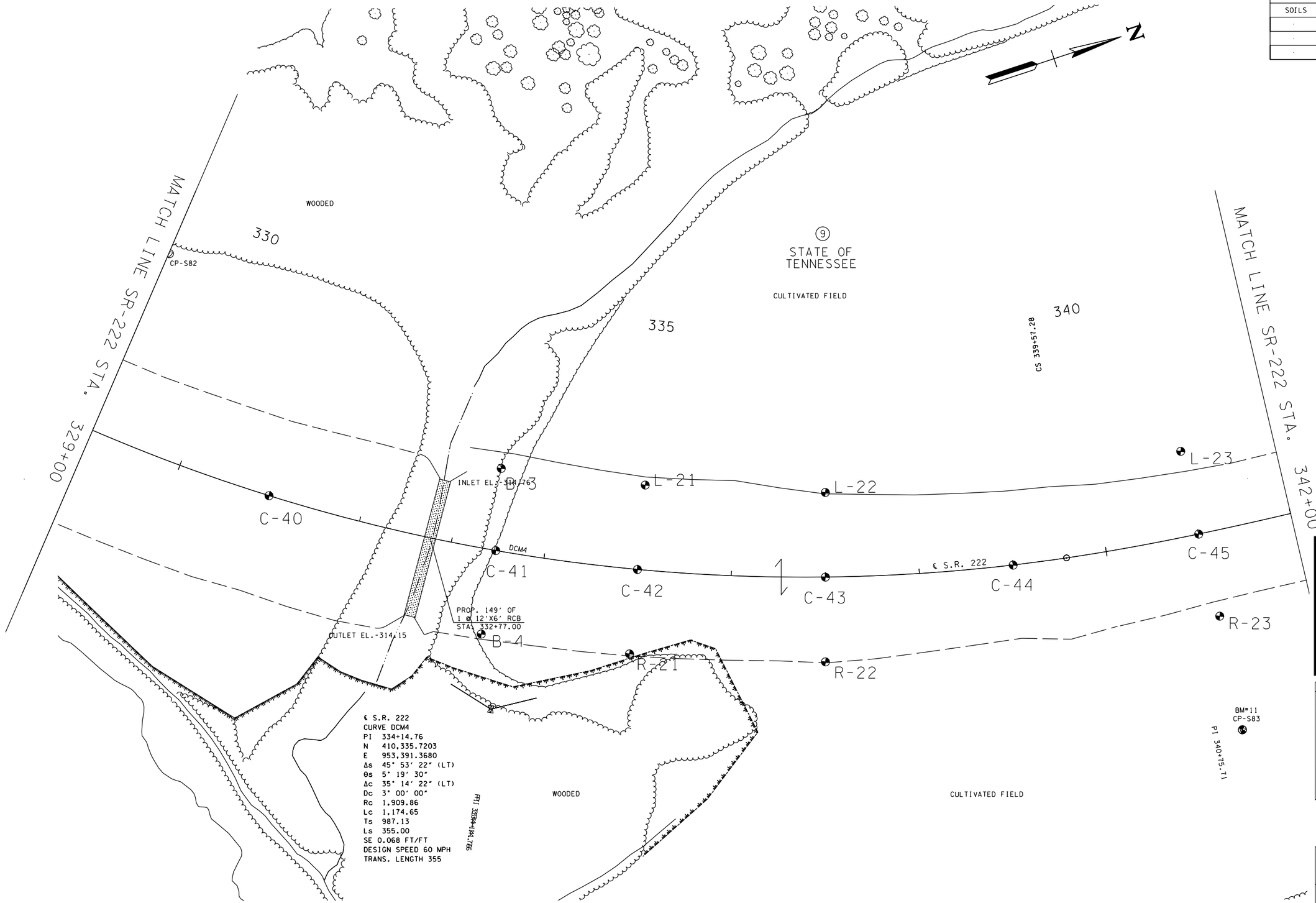
PROFILE

STA. 316+00 TO STA. 329+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 1:00:49 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53R-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53S



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

PRESENT LAYOUT

STA. 329+00 TO STA. 342+00

SCALE: 1"=100'

3/3/2014 1:43:44 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53S-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53T
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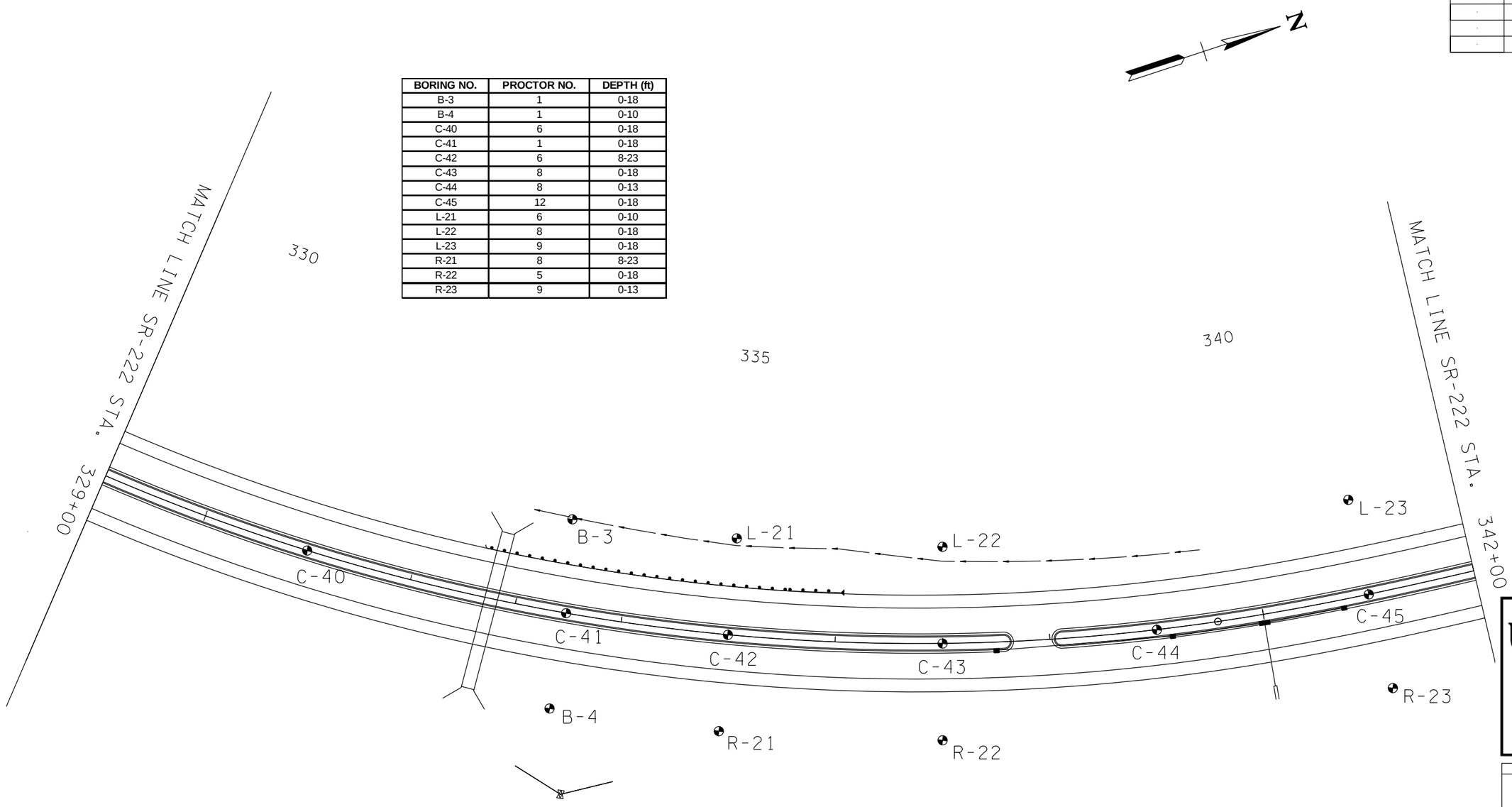
BORING NO.	PROCTOR NO.	DEPTH (ft)
B-3	1	0-18
B-4	1	0-10
C-40	6	0-18
C-41	1	0-18
C-42	6	8-23
C-43	8	0-18
C-44	8	0-13
C-45	12	0-18
L-21	6	0-10
L-22	8	0-18
L-23	9	0-18
R-21	8	8-23
R-22	5	0-18
R-23	9	0-13



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. 329+00 TO STA. 342+00

SCALE: 1"=100'

3/3/2014 1:16:32 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53T-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53U
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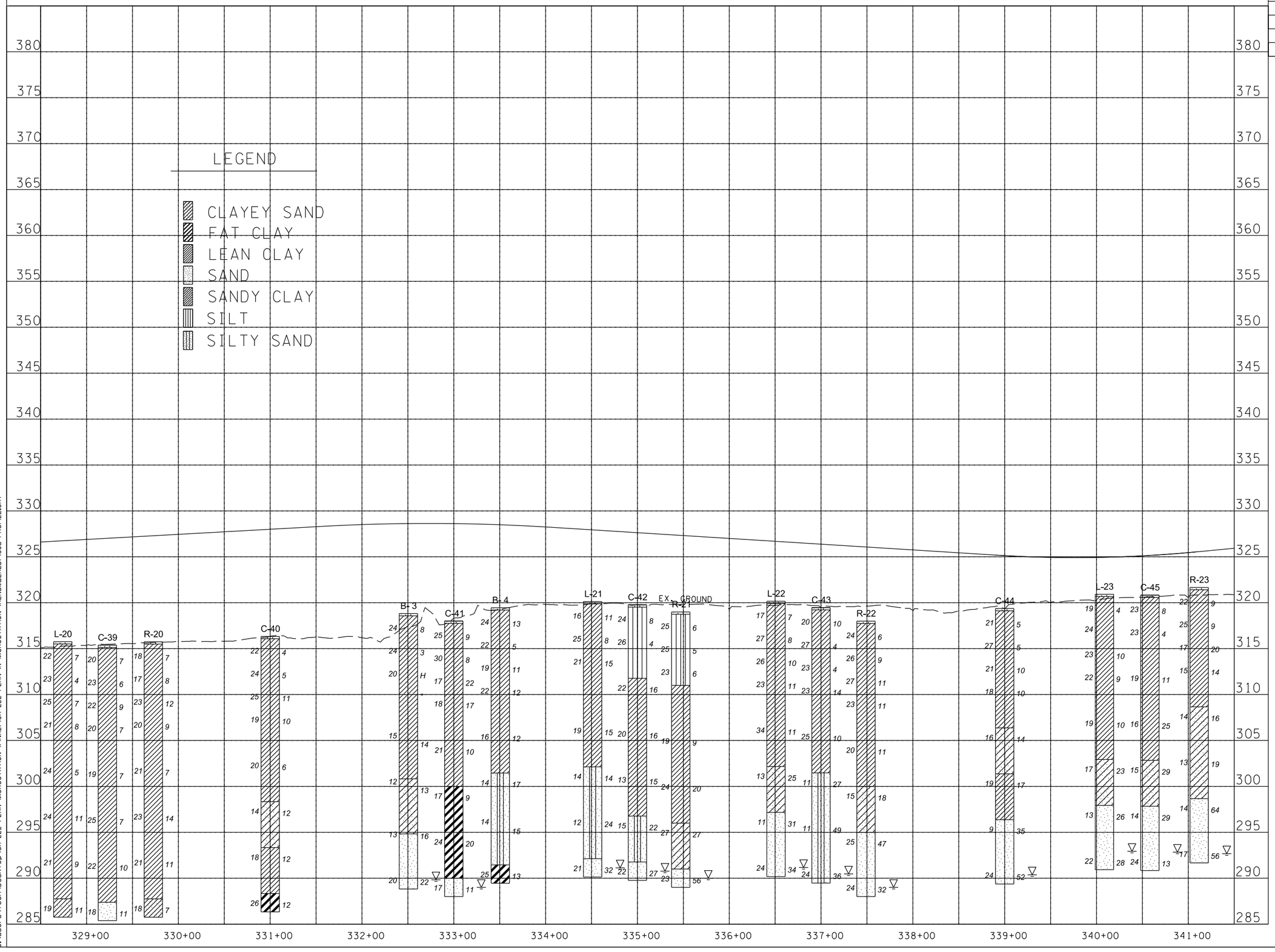

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 329+00 TO STA. 341+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 4:9:25 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53U-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53V
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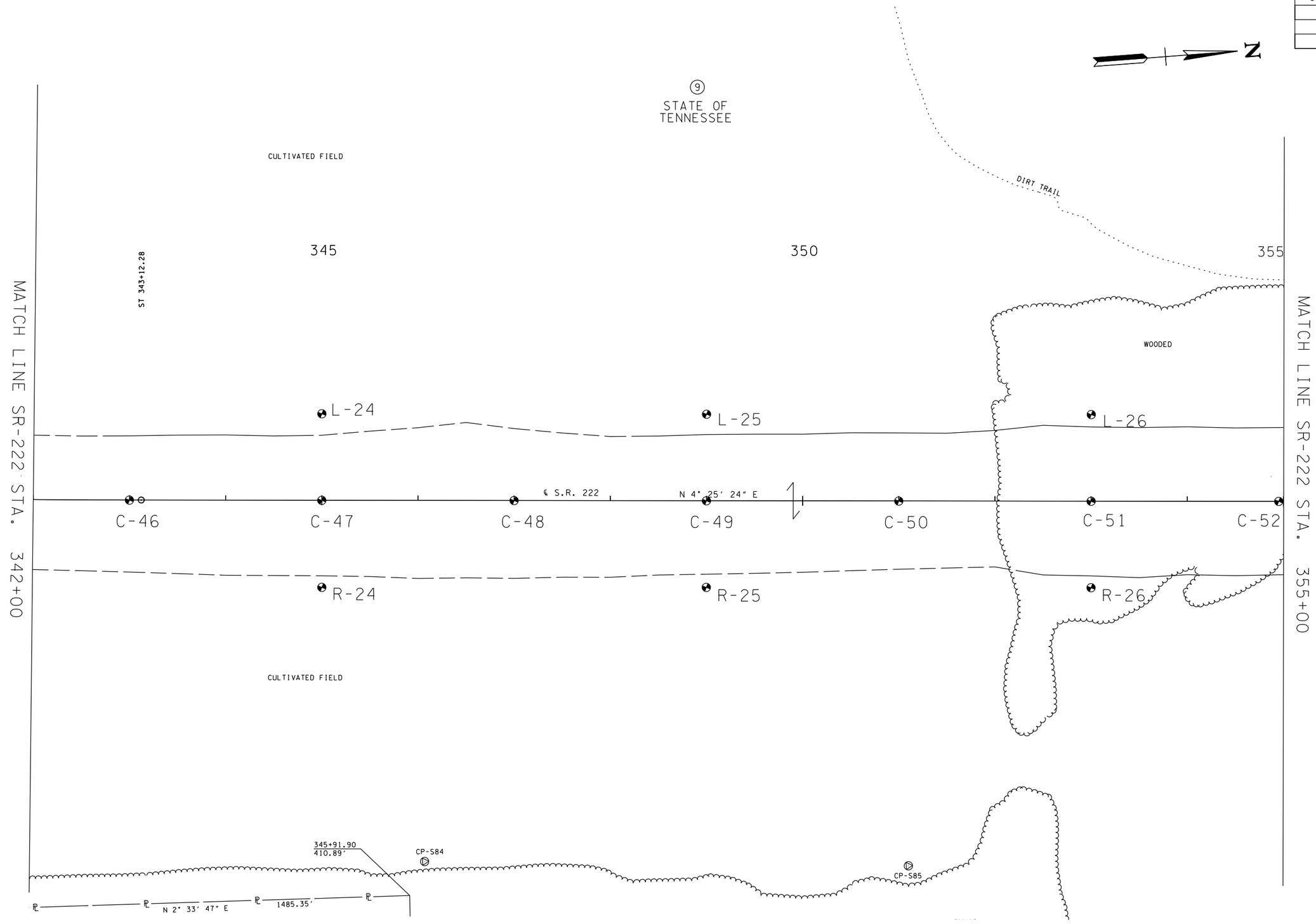

UNOFFICIAL SET

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

PRESENT LAYOUT

STA. 342+00 TO STA. 355+00

SCALE: 1"=100'

3/3/2014 1:21:13 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53V-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53W
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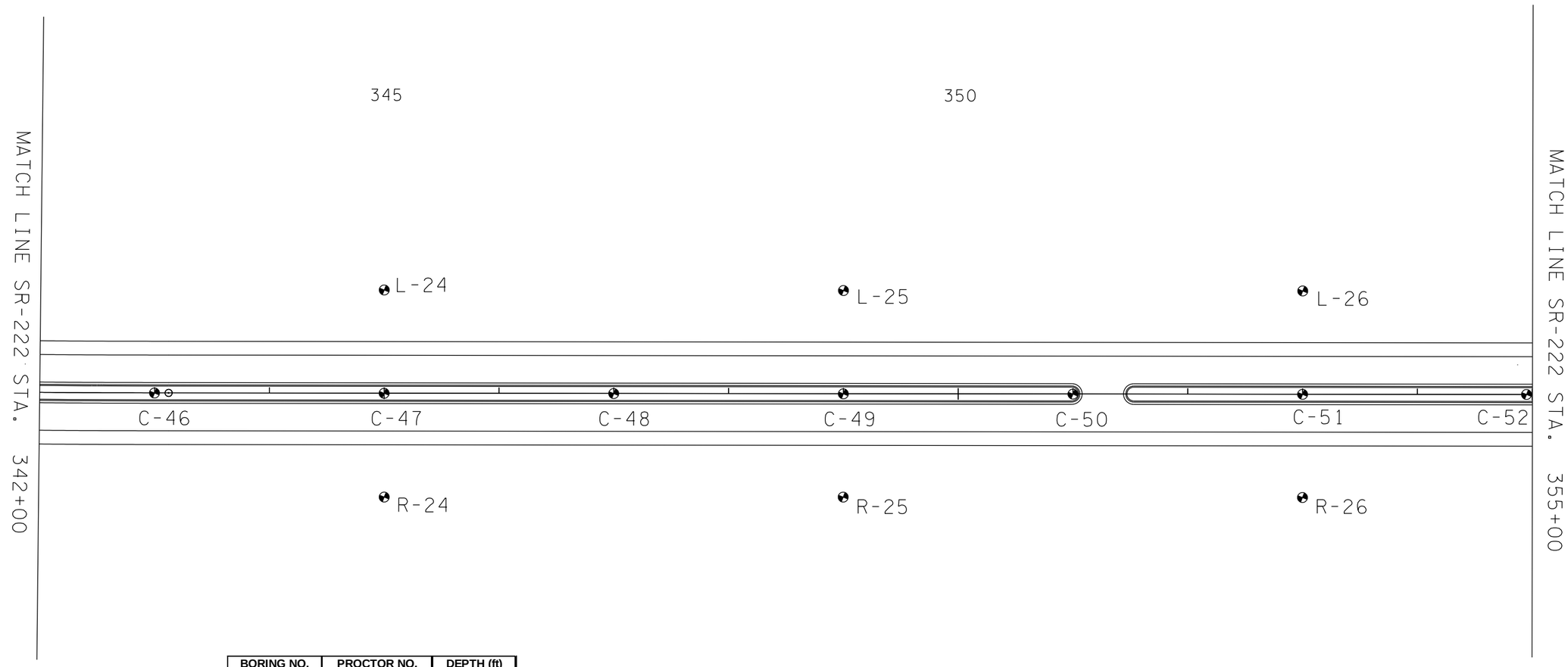

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-46	12	0-18
C-47	1	0-13
C-48	1	0-18
C-49	1	0-18
C-50	3	0-23
C-51	3	0-10
C-52	14	0-18
L-24	1	0-18
L-25	14	0-13
L-26	14	0-15
R-24	1	0-18
R-25	2	0-18
R-26	14	0-10

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. 342+00 TO STA. 355+00

SCALE: 1"=100'

3/3/2014 1:23:09 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53W-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53X
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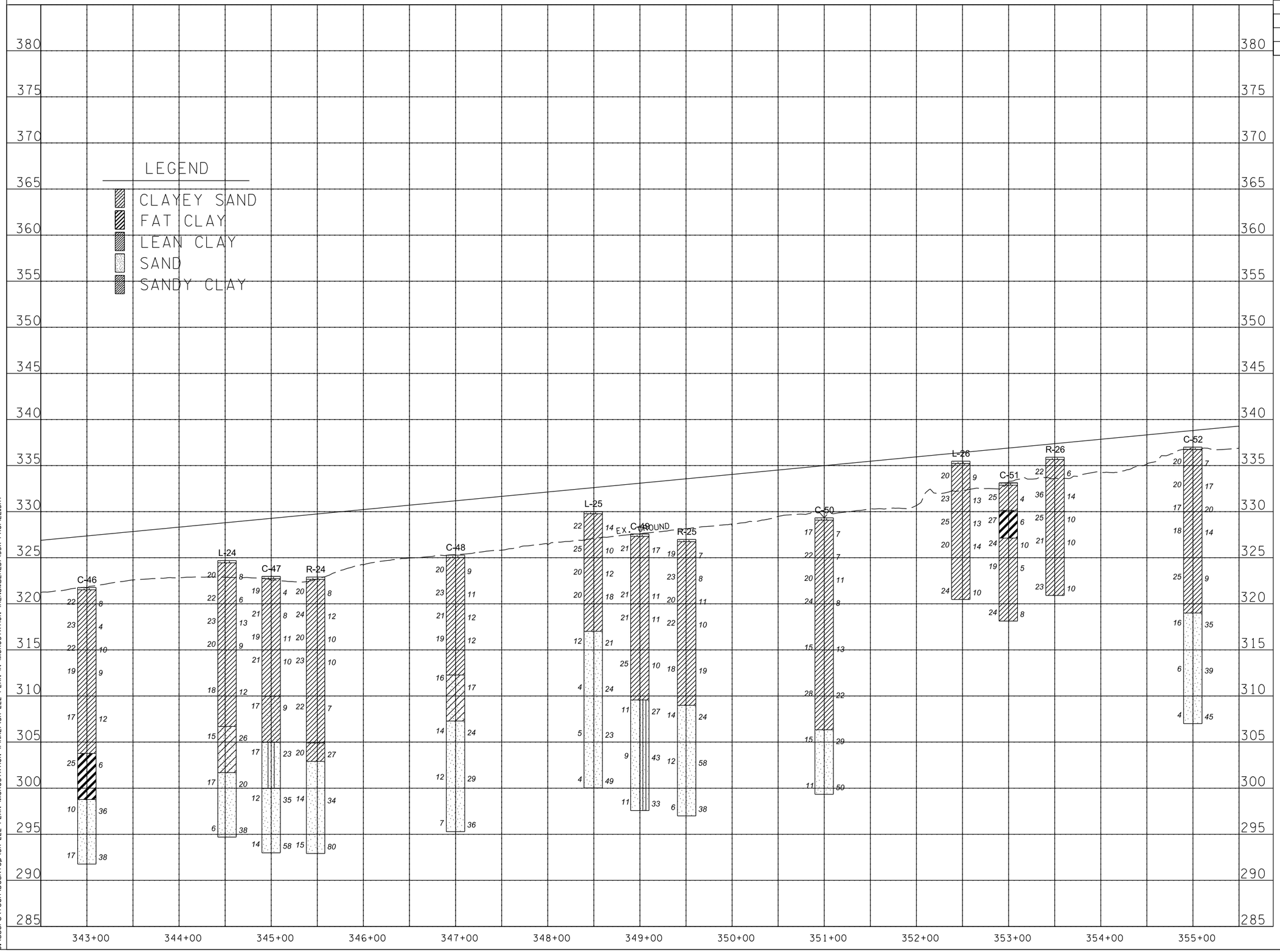


UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

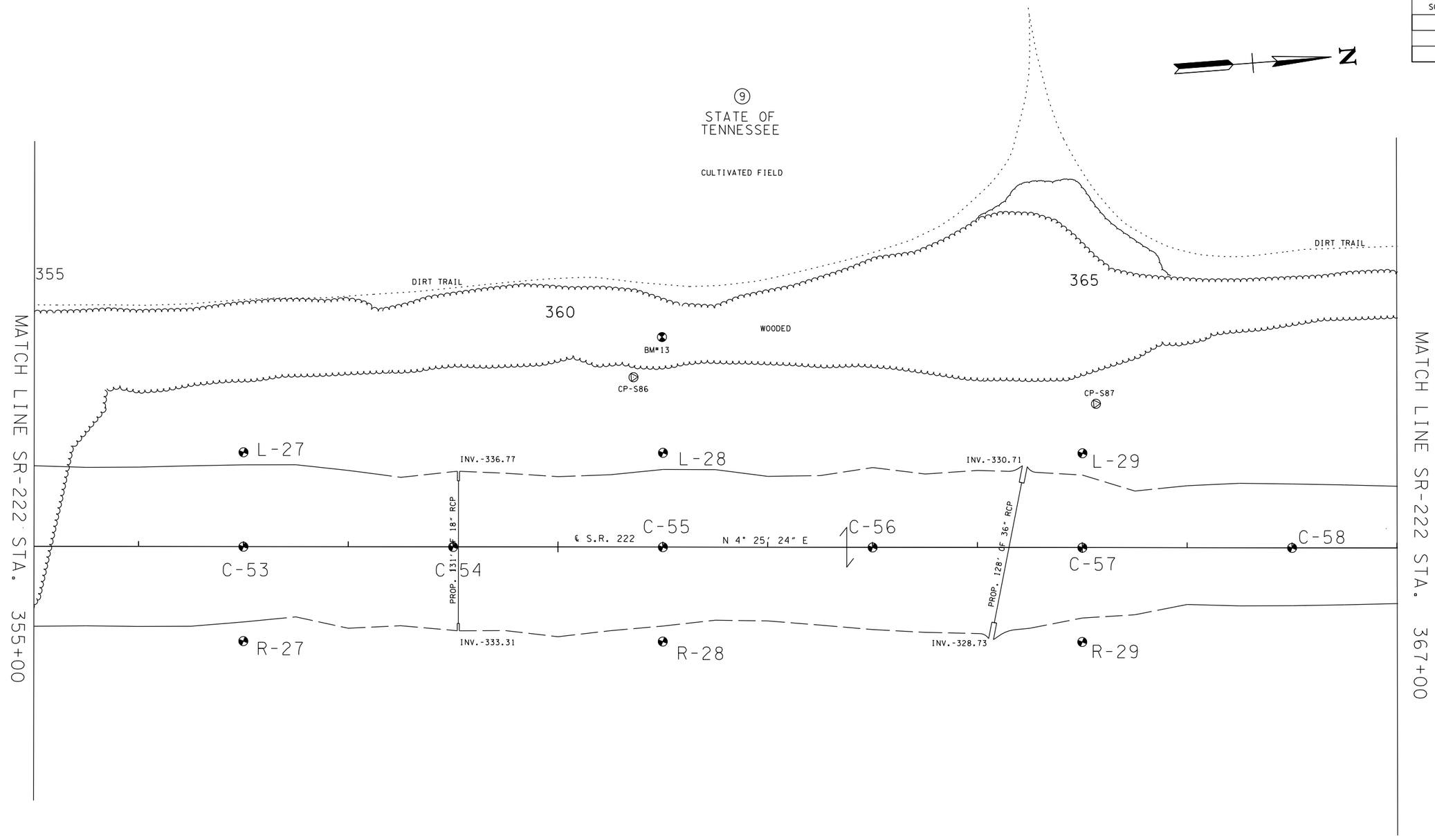
PROFILE

STA. 342+00 TO STA. 355+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 1:26:09 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53X-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53Y



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 355+00 TO STA. 368+00

SCALE: 1"=100'

3/3/2014 1:27:56 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53Y-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53Z
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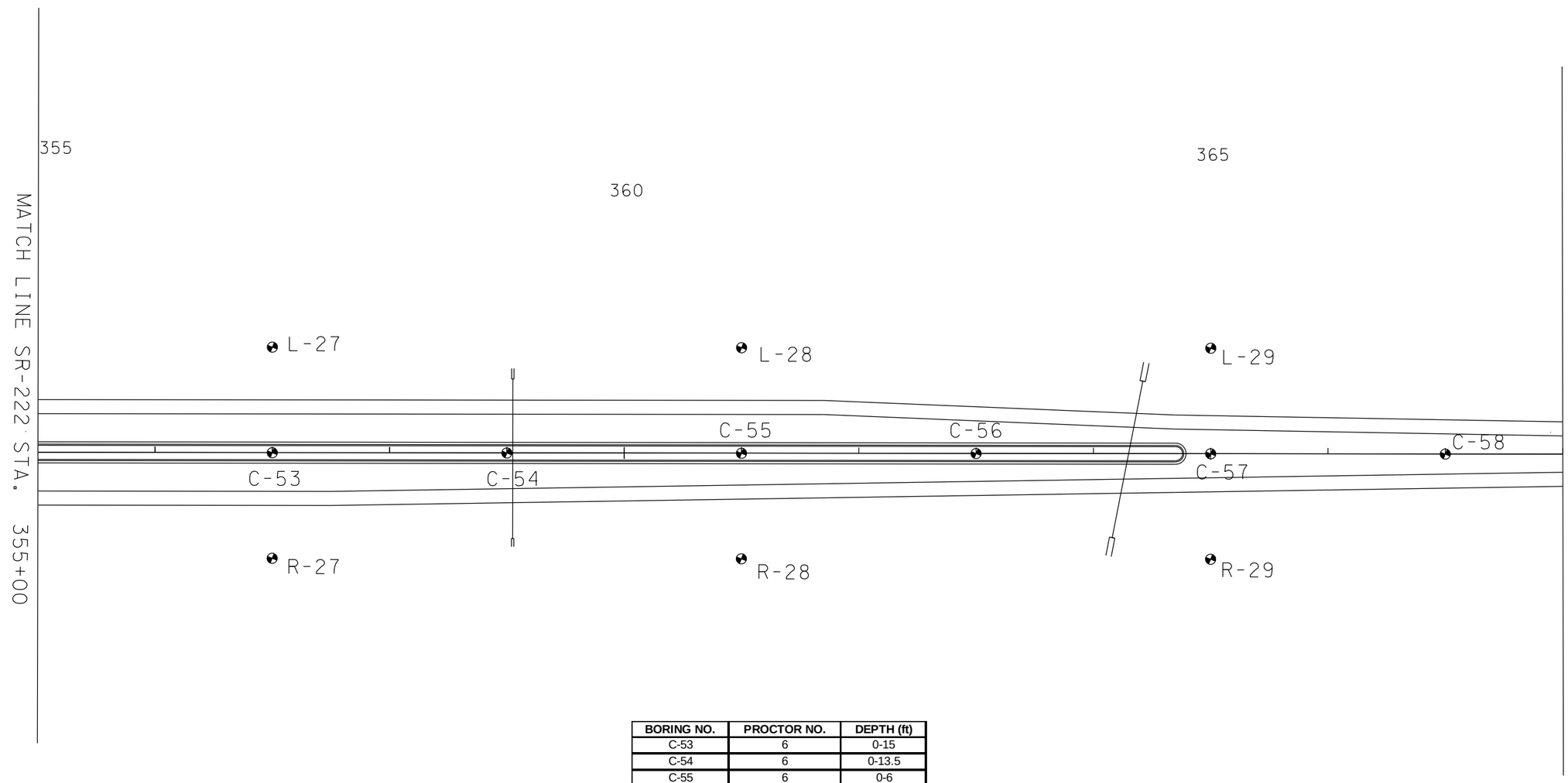

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-53	6	0-15
C-54	6	0-13.5
C-55	6	0-6
C-56	13	0-10
C-57	13	0-10
C-58	13	0-10
L-27	6	0-18
L-28	6	0-6
L-29	13	0-13.5
R-27	6	0-13
R-28	6	0-8.5
R-29	13	0-10

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 355+00 TO STA. 368+00

SCALE: 1"=100'

3/3/2014 1:29:52 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53Z-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AA
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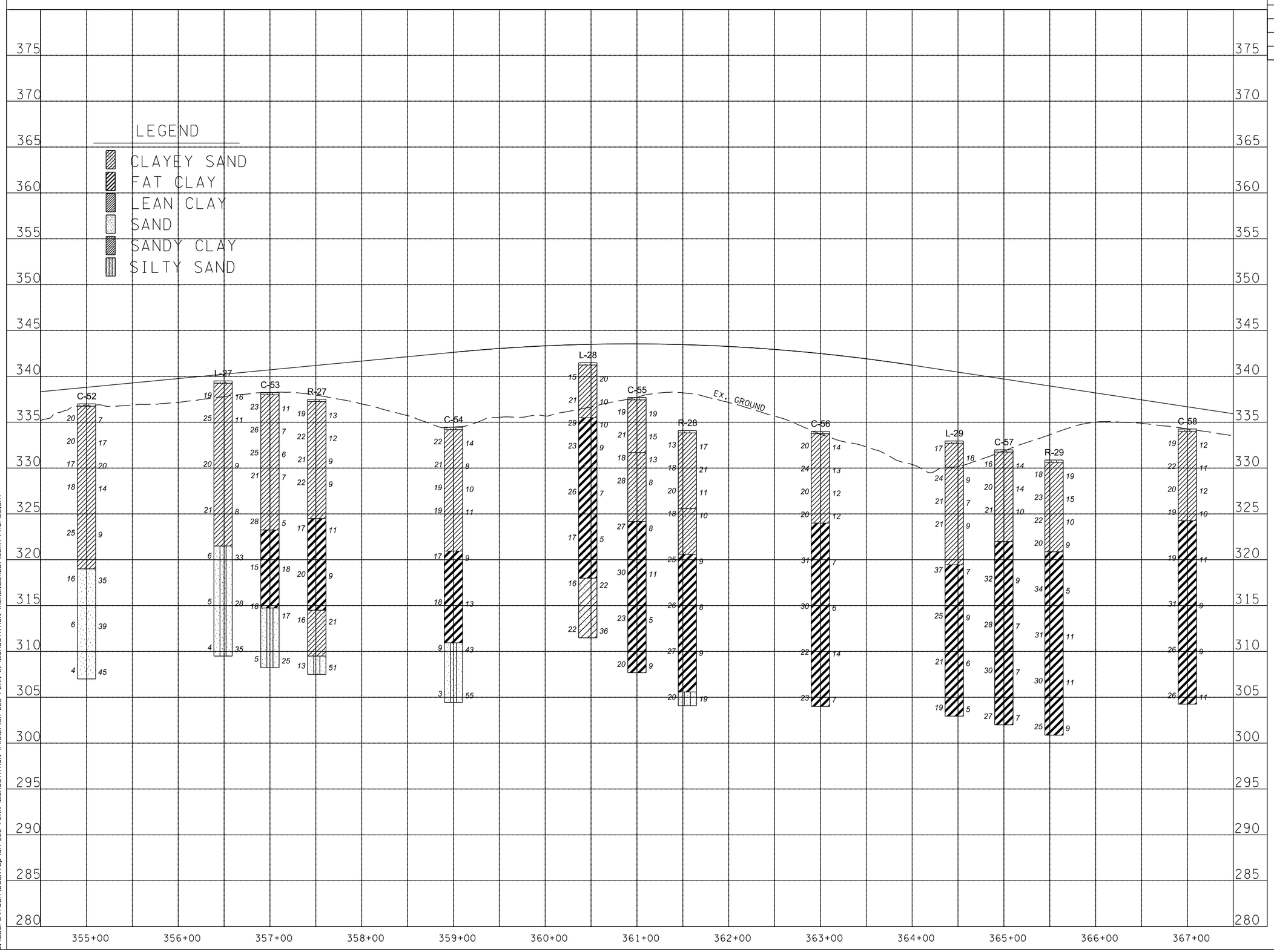

UNOFFICIAL SET

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 355+00 TO STA. 367+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 1:32:11 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AA-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AB
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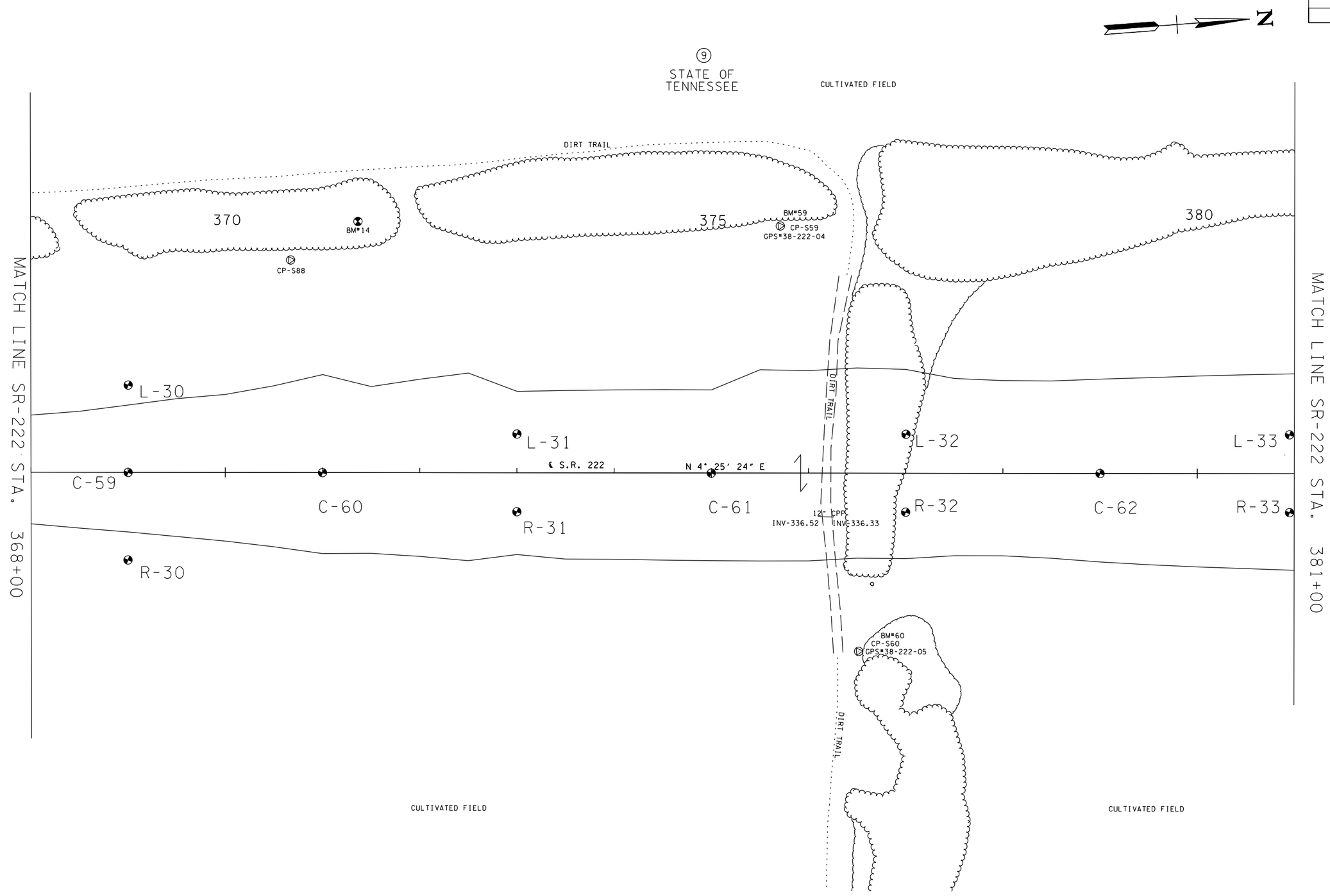

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 368+00 TO STA. 381+00

SCALE: 1"=100'

3/3/2014 1:34:07 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AB-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AC
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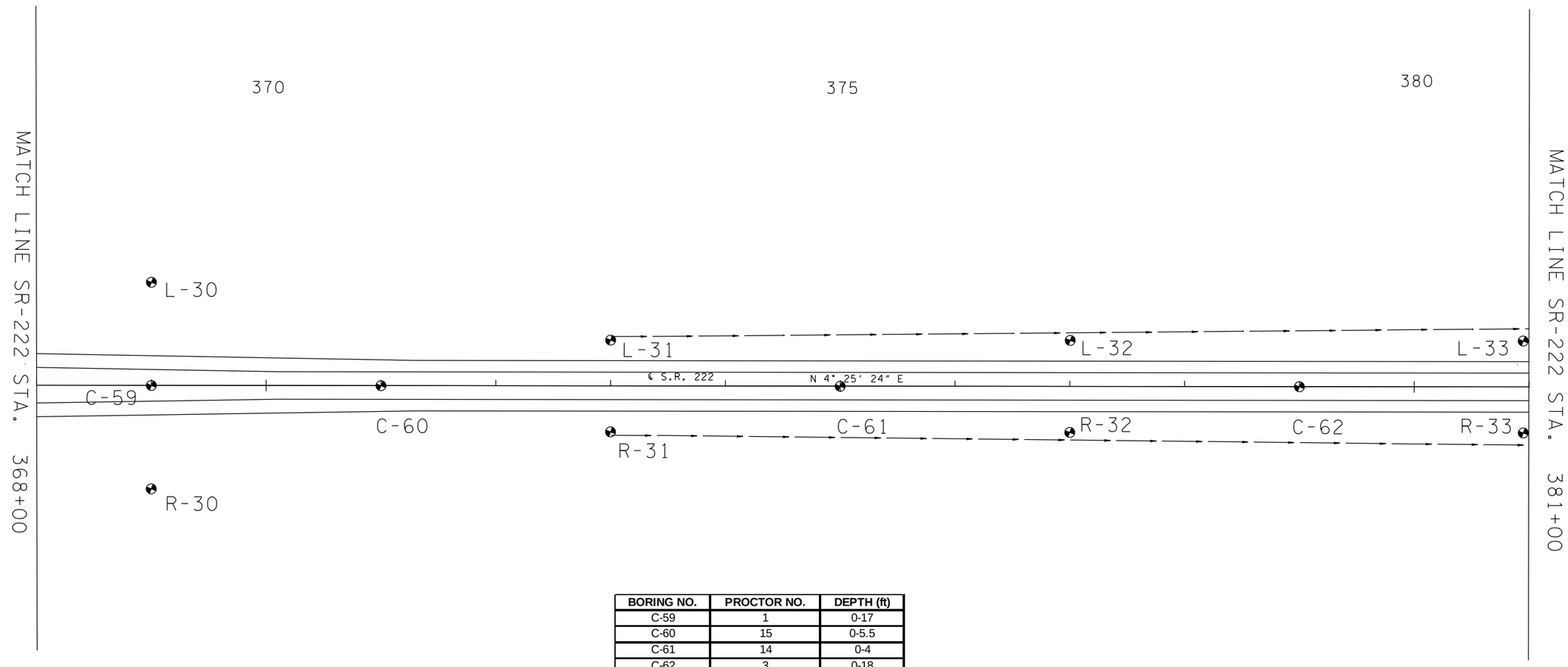

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-59	1	0-17
C-60	15	0-5.5
C-61	14	0-4
C-62	3	0-18
L-30	7	0-10
L-31	12	-----
L-32	15	0-11
L-33	12	-----
R-30	7	0-18
R-31	12	0-4
R-32	2	0-6
R-33	12	0-2

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 368+00 TO STA. 381+00

SCALE: 1"=100'

3/3/2014 1:35:47 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AC-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AD
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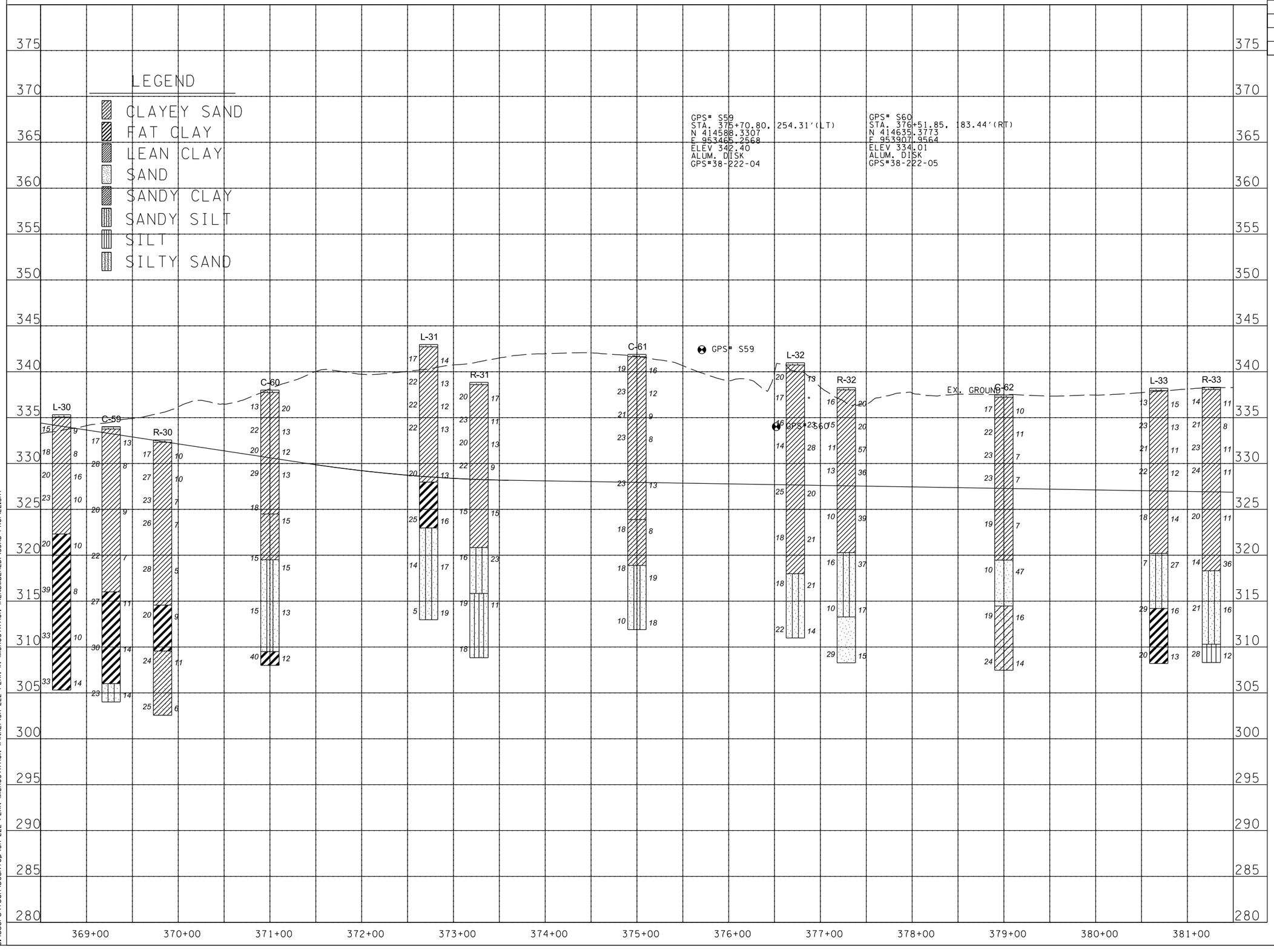

UNOFFICIAL SET

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 369+00 TO STA. 381+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 1:38:08 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AD-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AE
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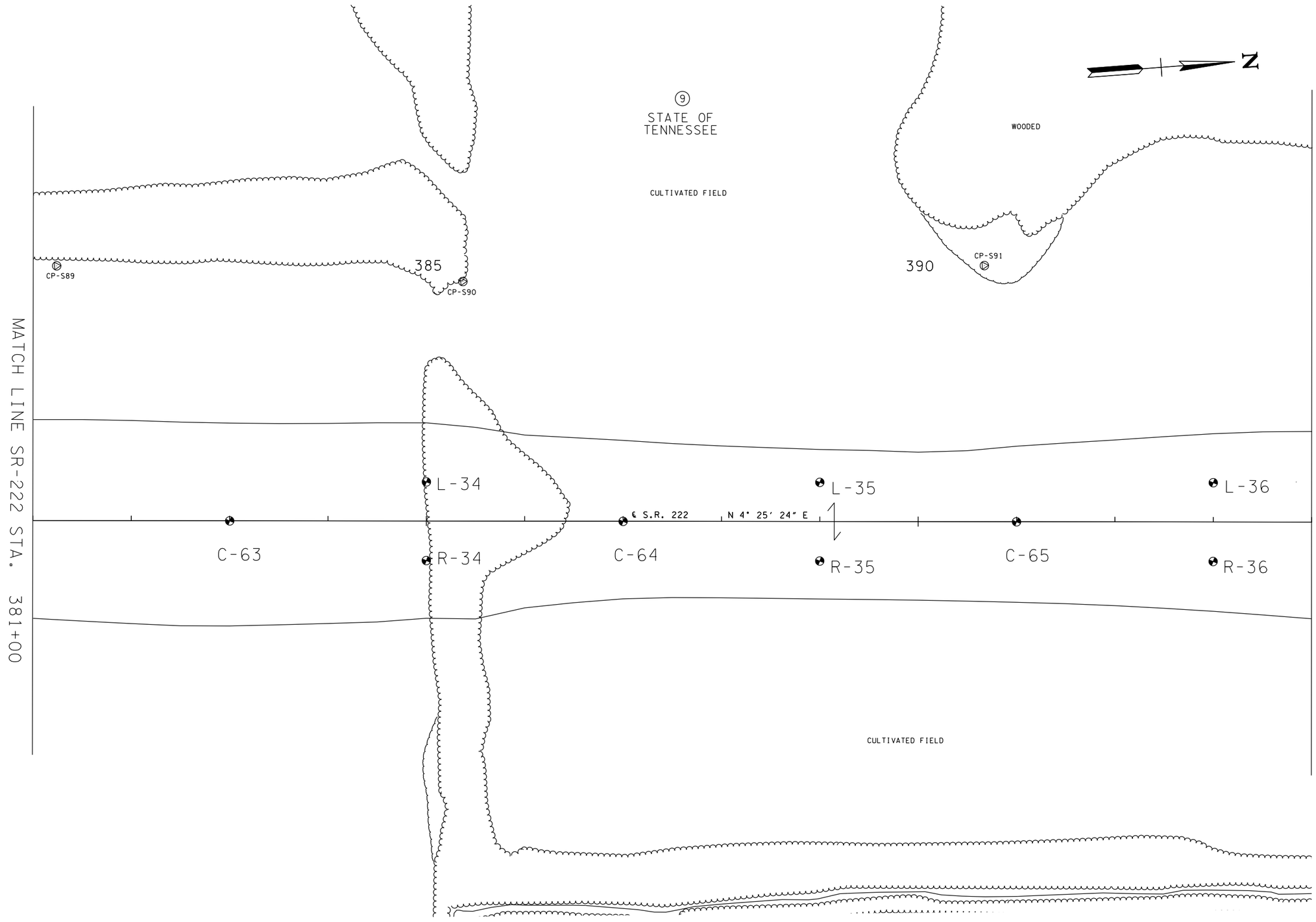

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 381+00 TO STA. 394+00

SCALE: 1"=100'

3/3/2014 1:39:53 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AF
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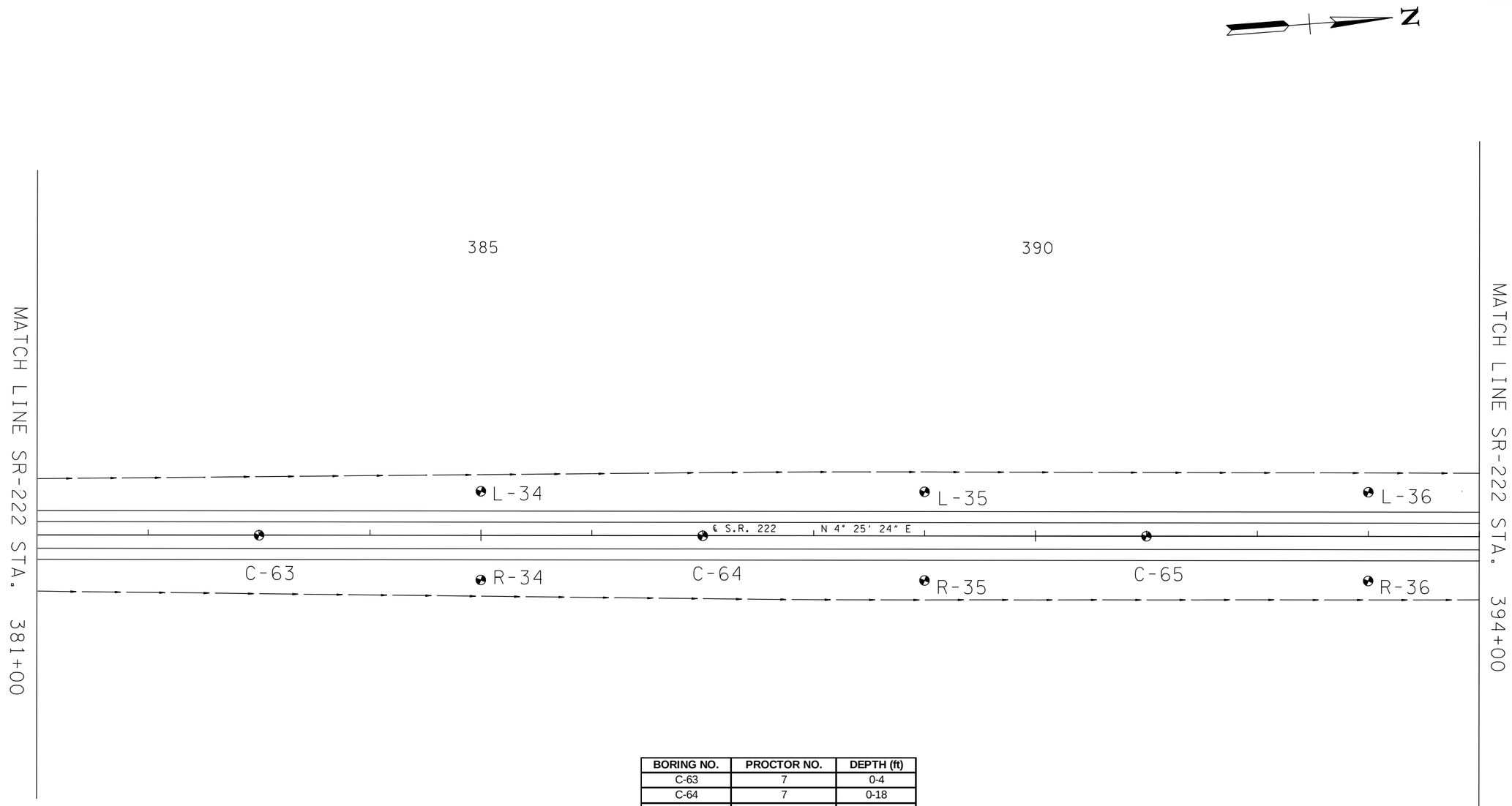

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-63	7	0-4
C-64	7	0-18
C-65	7	0-15
L-34	8	0-10
L-35	12	0-17
L-36	12	0-7
R-34	15	0-10
R-35	4	0-17
R-36	12	0-7

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 381+00 TO STA. 394+00

SCALE: 1"=100'

3/3/2014 1:42:02 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AF-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AG
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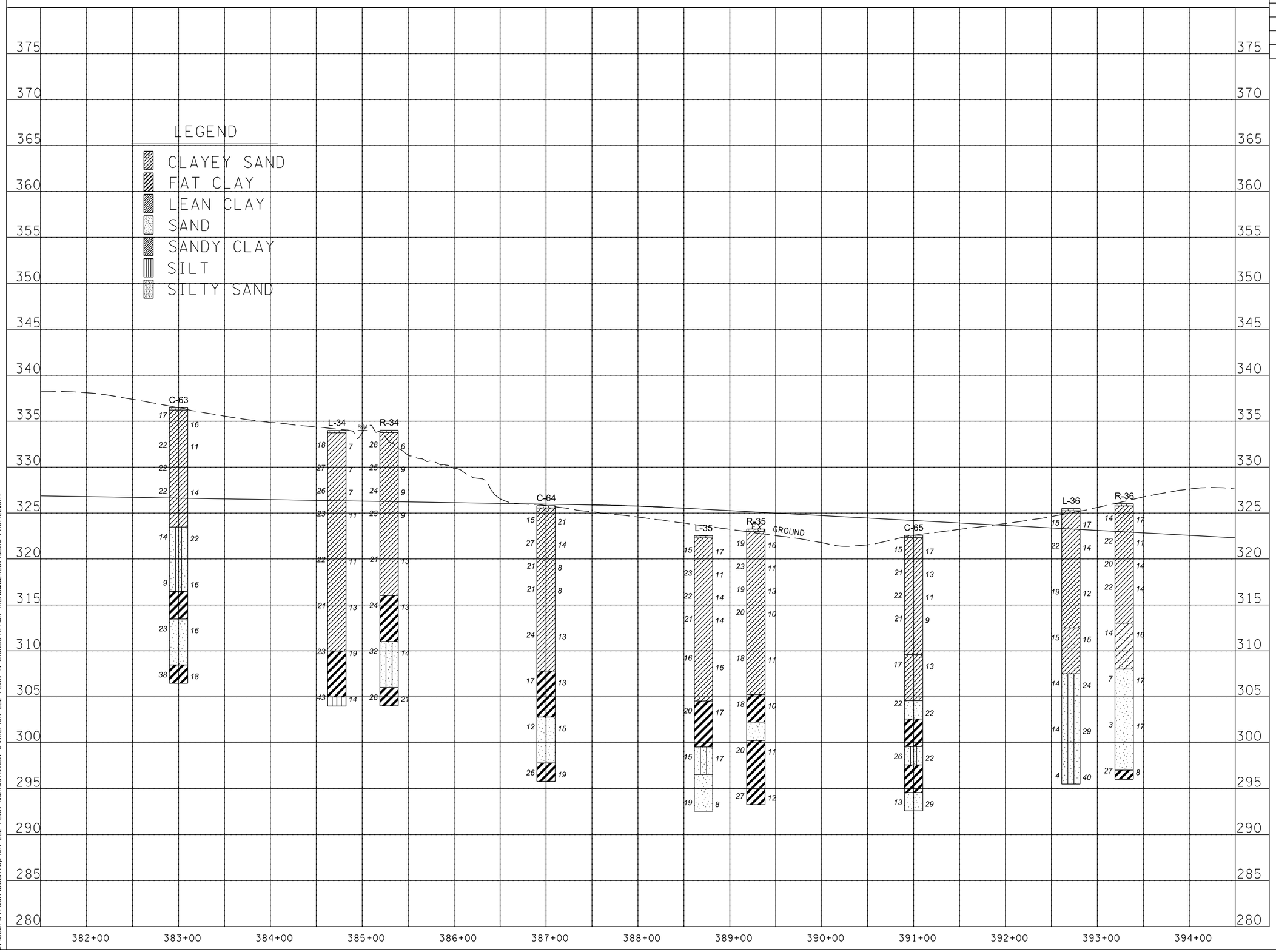

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 382+00 TO STA. 394+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 1:45:01 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AG-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AH
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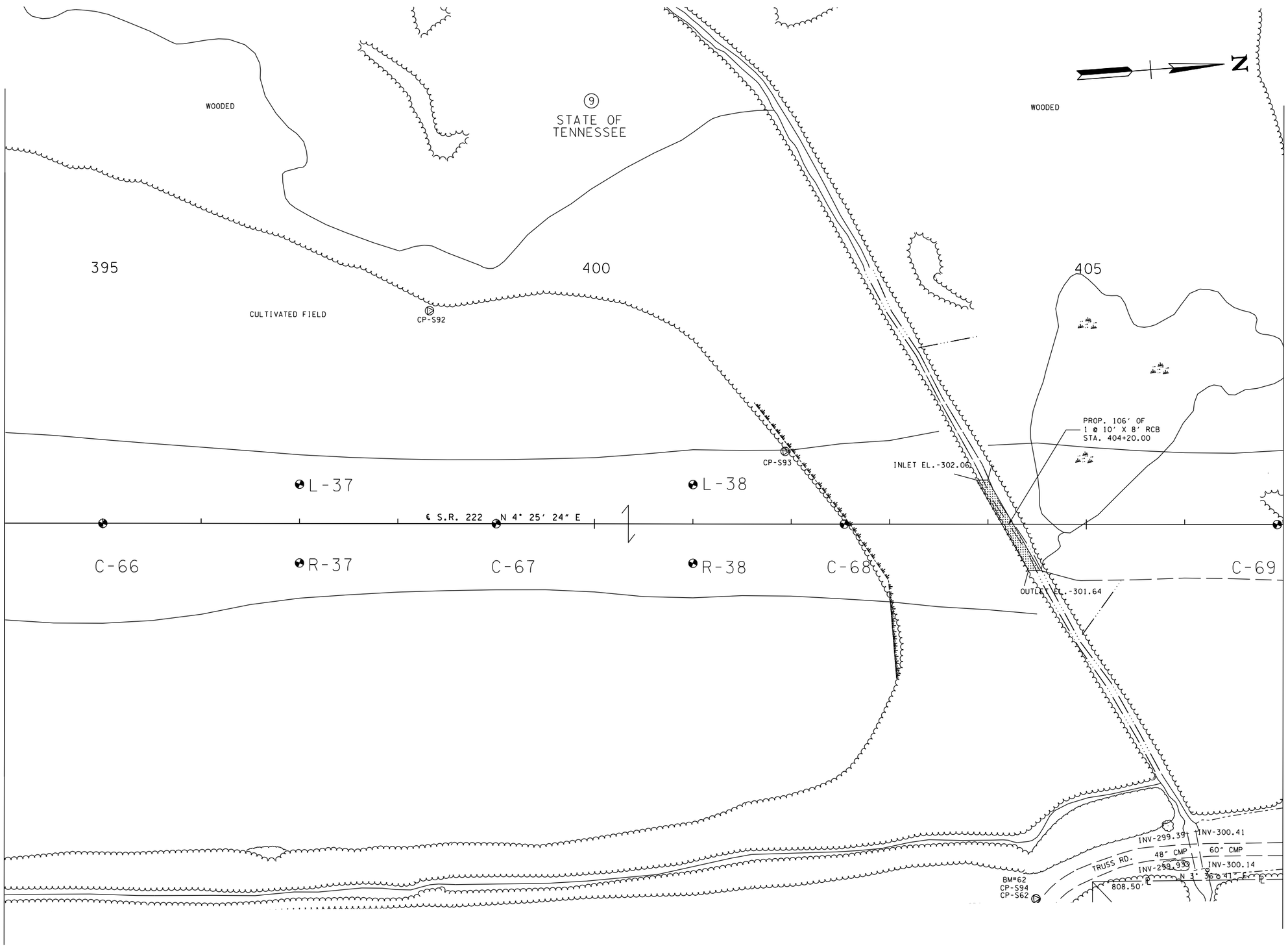

UNOFFICIAL SET

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

PRESENT LAYOUT

STA. 394+00 TO STA. 407+00

SCALE: 1"=100'

3/3/2014 1:46:49 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AH-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AI
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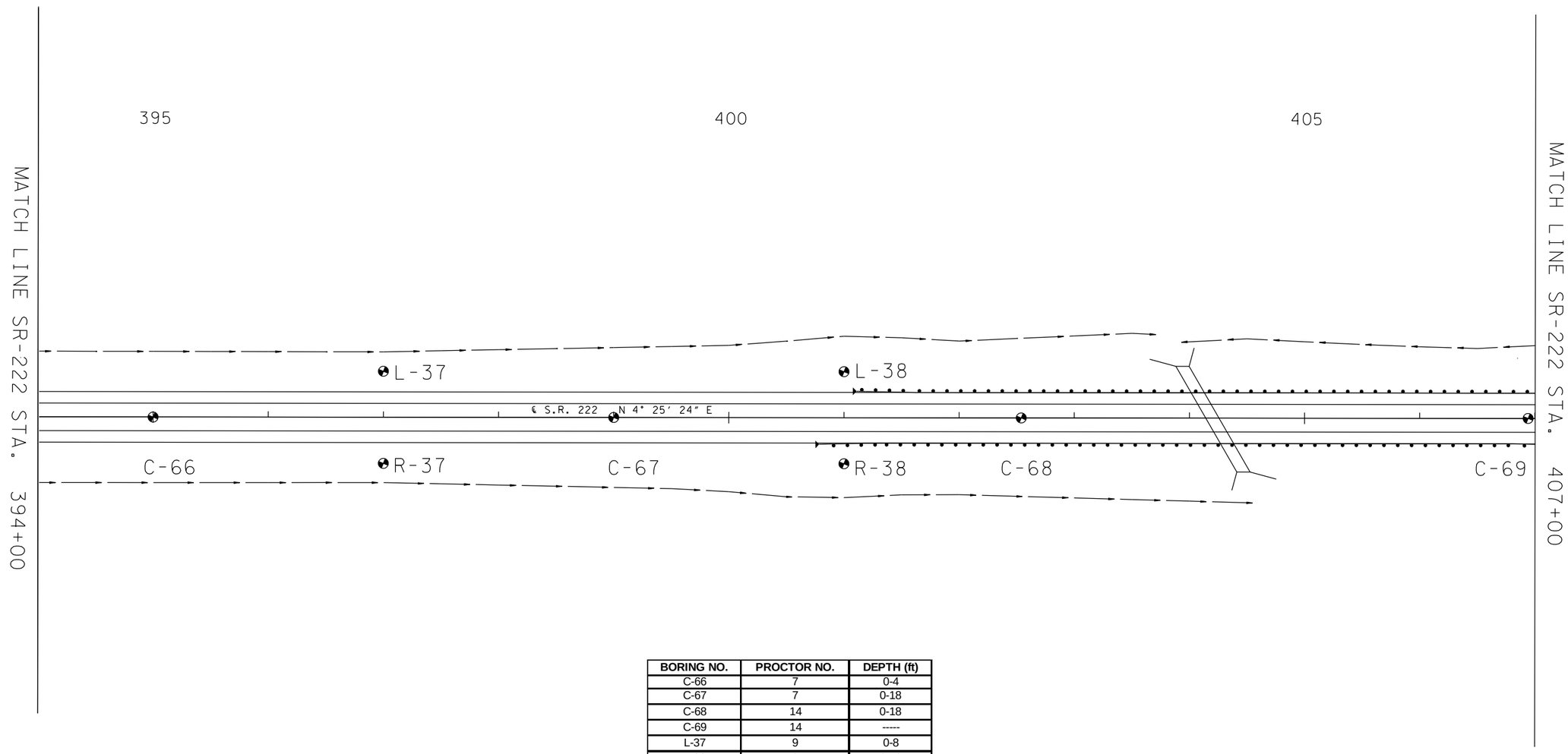

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-66	7	0-4
C-67	7	0-18
C-68	14	0-18
C-69	14	-----
L-37	9	0-8
L-38	9	0-10
R-37	4	0-12
R-38	14	0-28

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. 394+00 TO STA. 407+00

SCALE: 1"=100'

3/3/2014 1:48:44 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AI-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AJ
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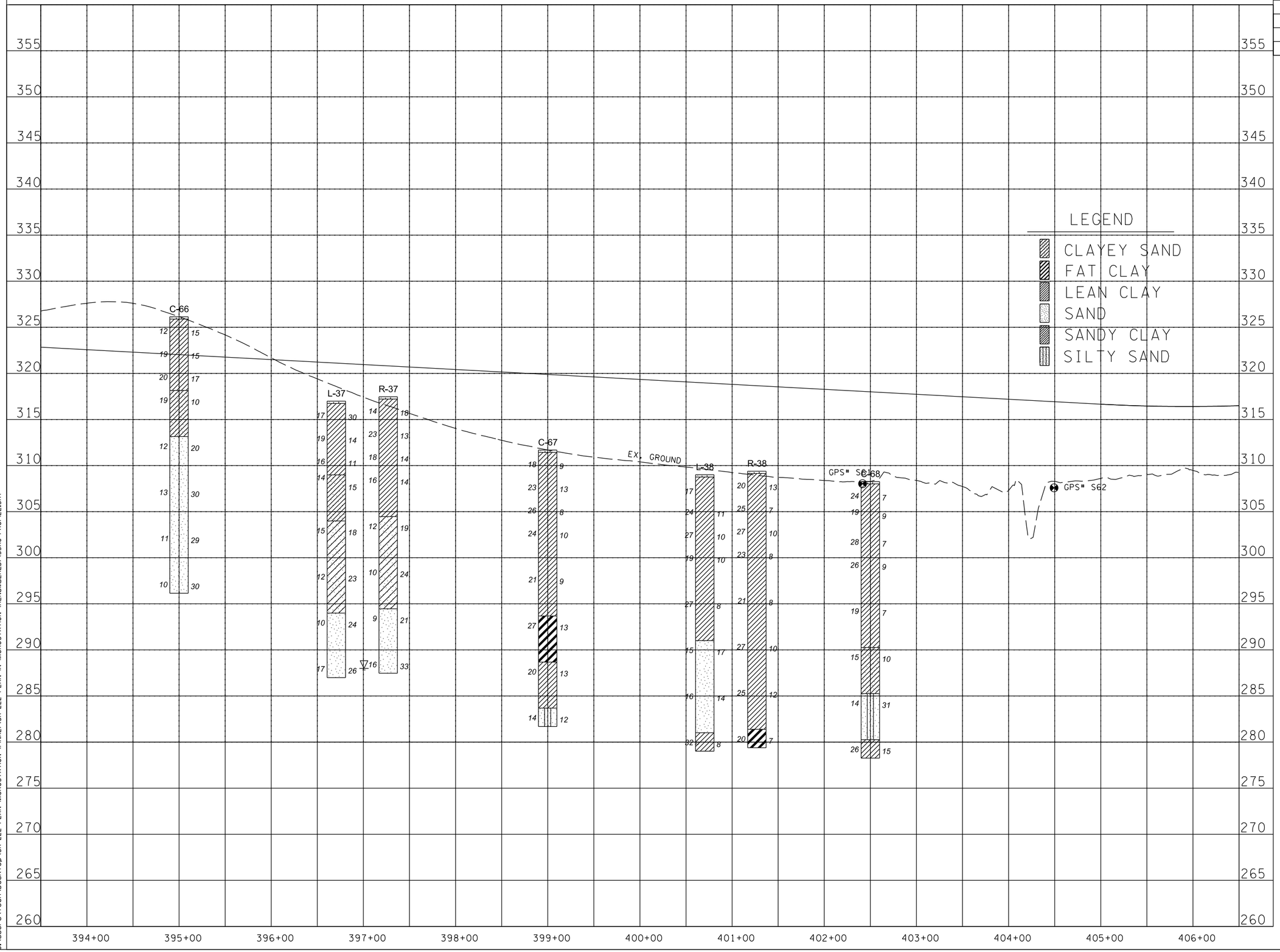

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 394+00 TO STA. 406+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 1:50:59 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AJ-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AK
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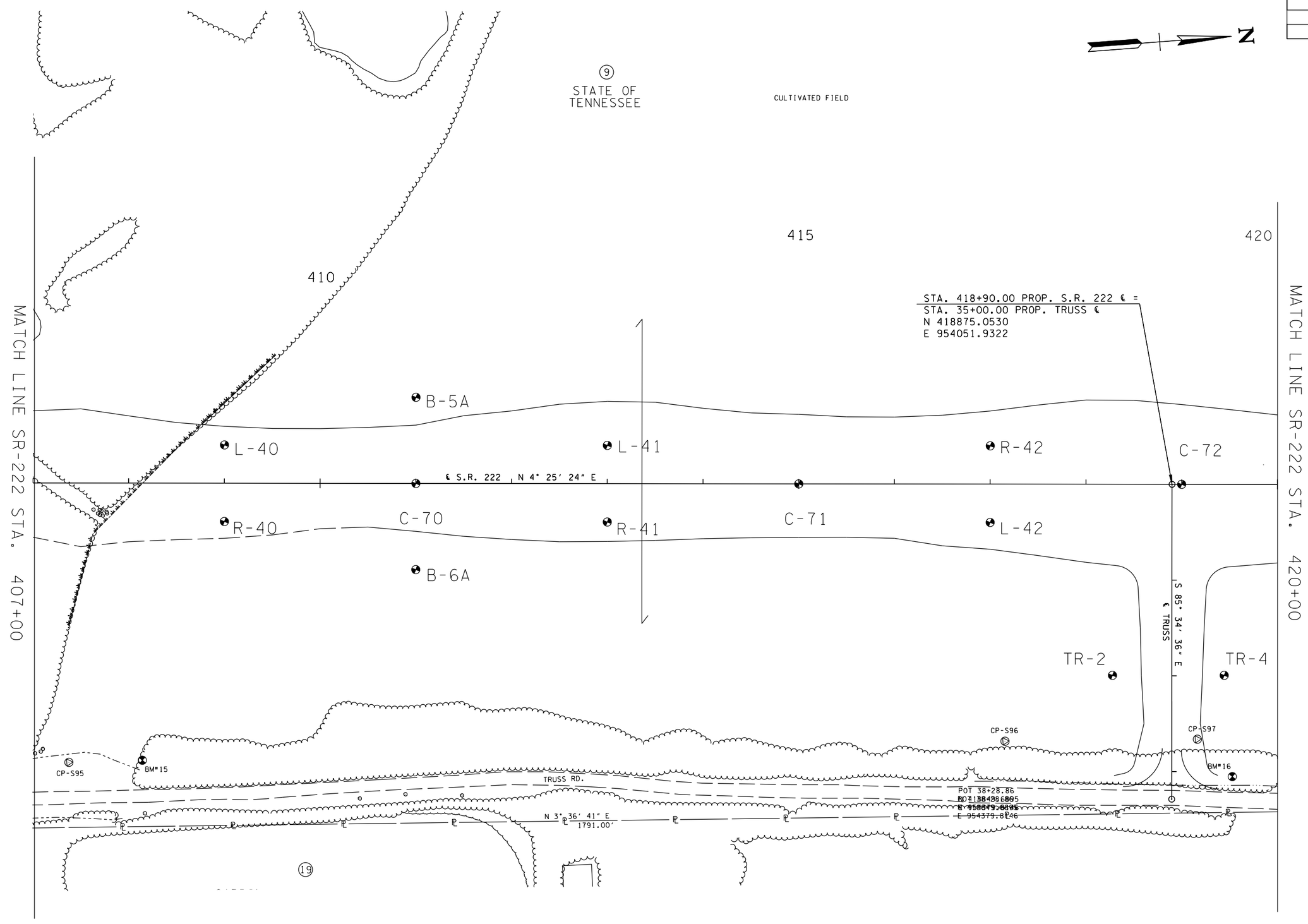

UNOFFICIAL SET

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

PRESENT LAYOUT

STA. 407+00 TO STA. 420+00

SCALE: 1"=100'

3/3/2014 1:52:48 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AK-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AL
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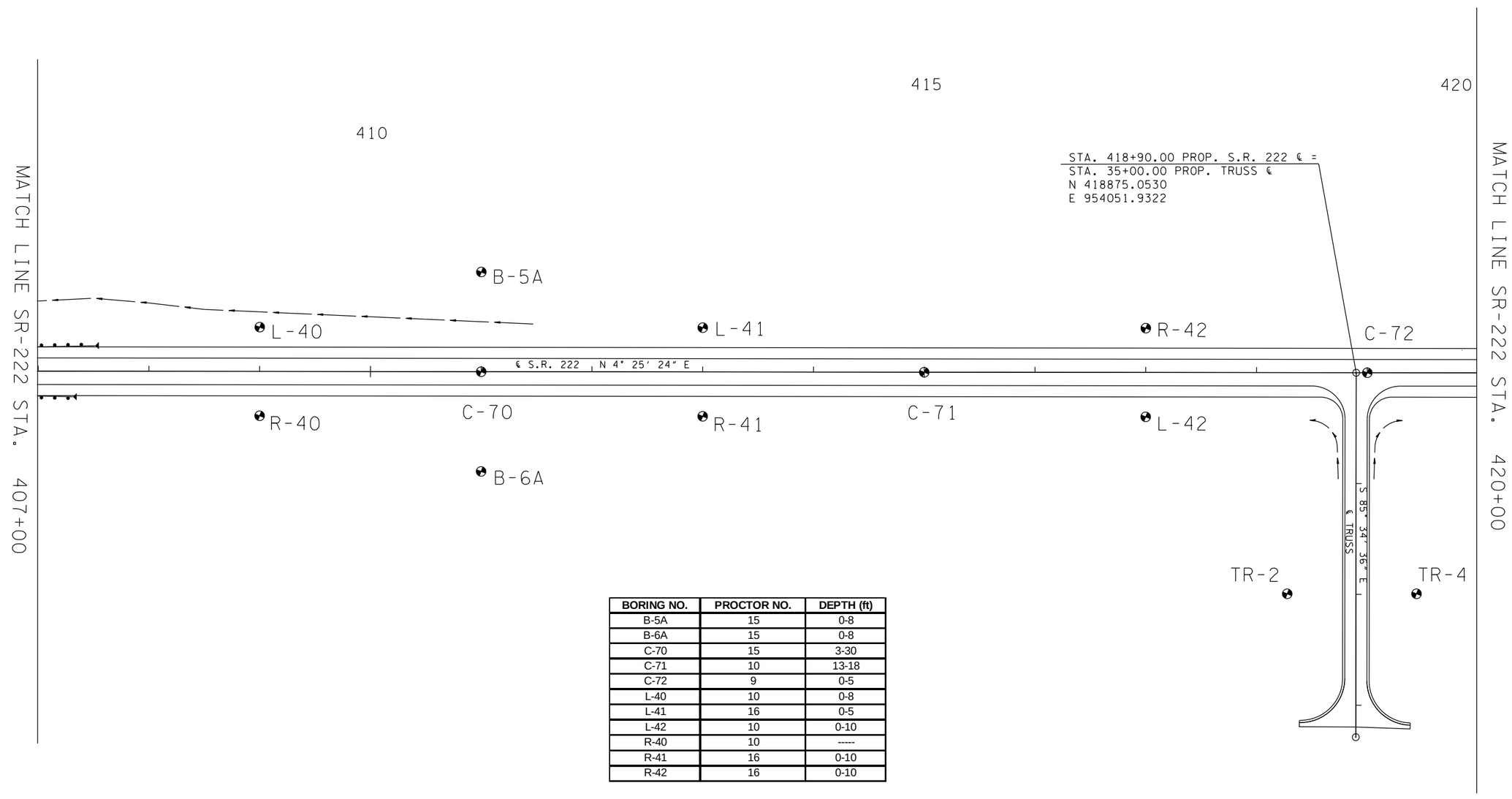

BORING NO.	PROCTOR NO.	DEPTH (ft)
B-5A	15	0-8
B-6A	15	0-8
C-70	15	3-30
C-71	10	13-18
C-72	9	0-5
L-40	10	0-8
L-41	16	0-5
L-42	10	0-10
R-40	10	-----
R-41	16	0-10
R-42	16	0-10

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

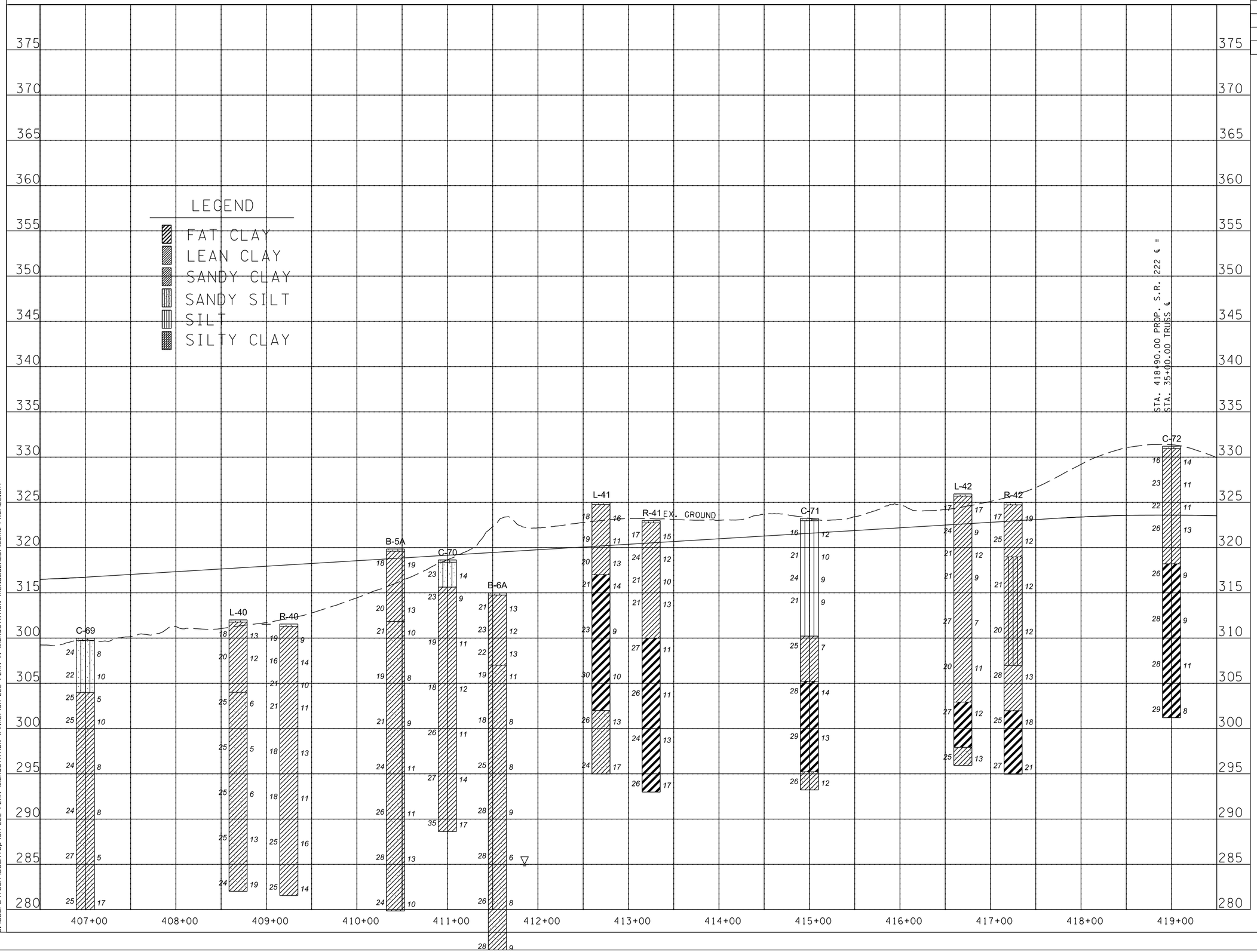
PROPOSED LAYOUT

STA. 407+00 TO STA. 420+00

SCALE: 1"=100'

3/3/2014 1:55:19 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AL-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AM



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 407+00 TO STA. 419+00

SCALE: 1"=100' HORIZ.
1"=10' VERT.

3/3/2014 1:58:13 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AM-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AN
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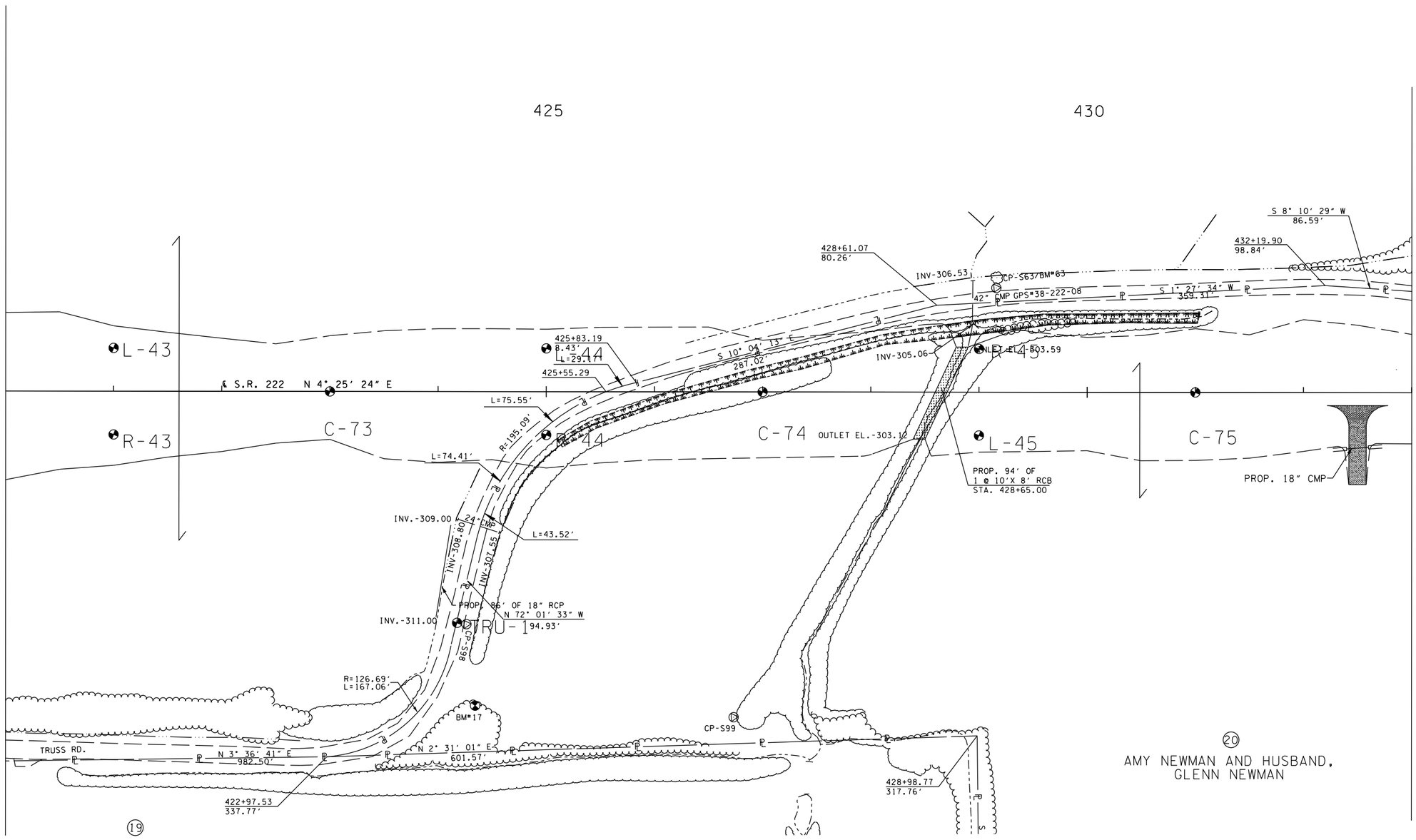

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 420+00 TO STA. 433+00

SCALE: 1"=100'

3/3/2014 2:00:05 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AN-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53A0
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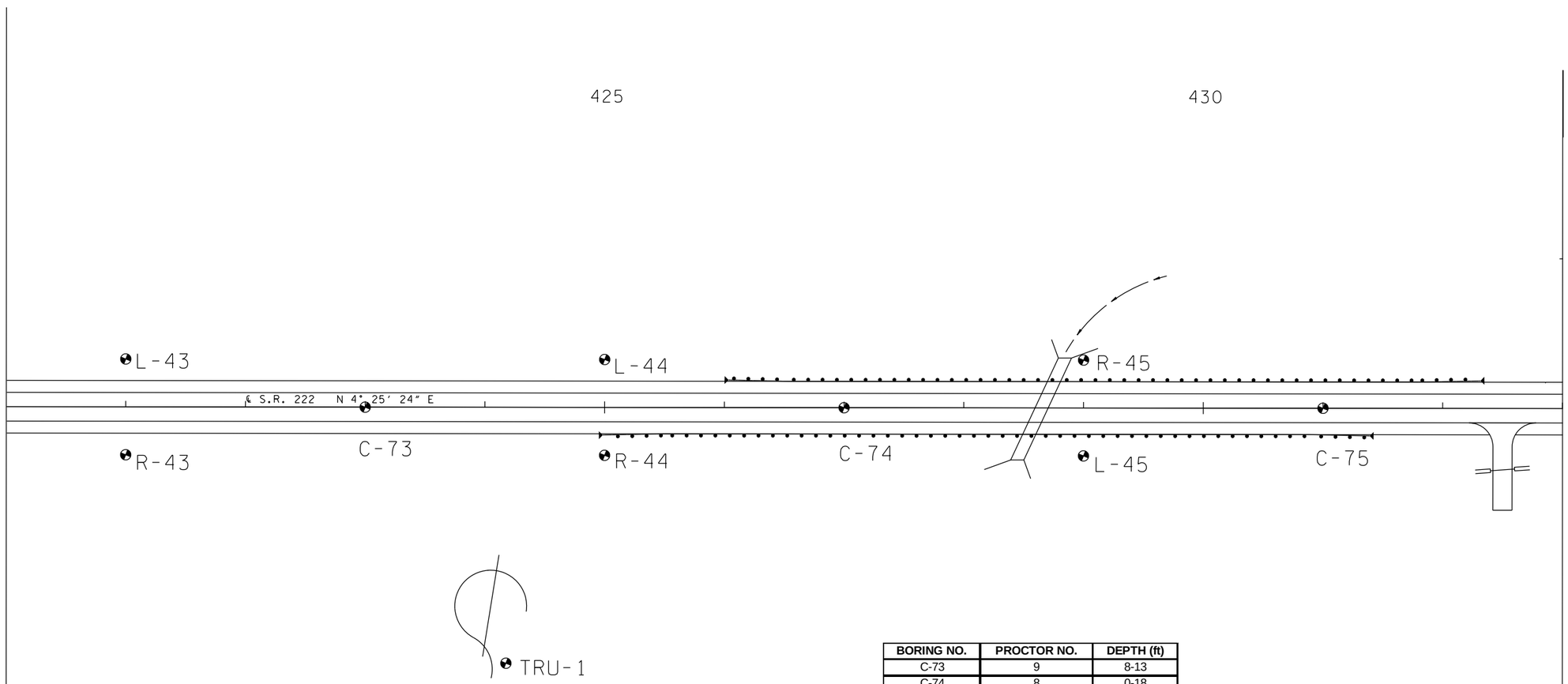

BORING NO.	PROCTOR NO.	DEPTH (ft)
C-73	9	8-13
C-74	8	0-18
C-75	5	0-18
L-43	2	0-10
L-44	3	0-28
L-45	5	0-18
R-43	9	0-8
R-44	13	0-23
R-45	5	0-18
TRU-1	9	0-15

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 420+00 TO STA. 433+00

SCALE: 1"=100'

3/3/2014 2:02:02 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53A0-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AP
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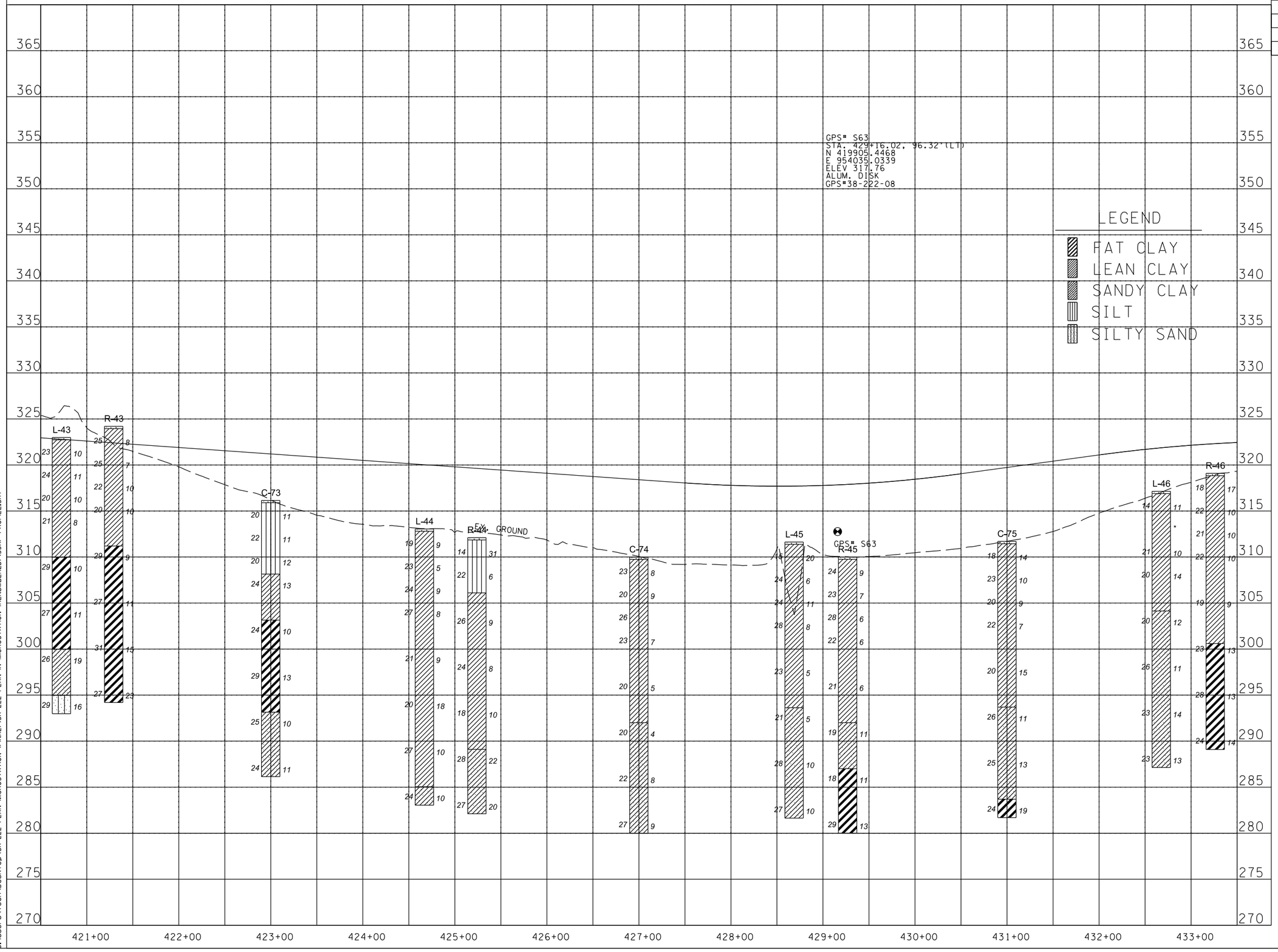

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UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 421+00 TO STA. 433+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53A0
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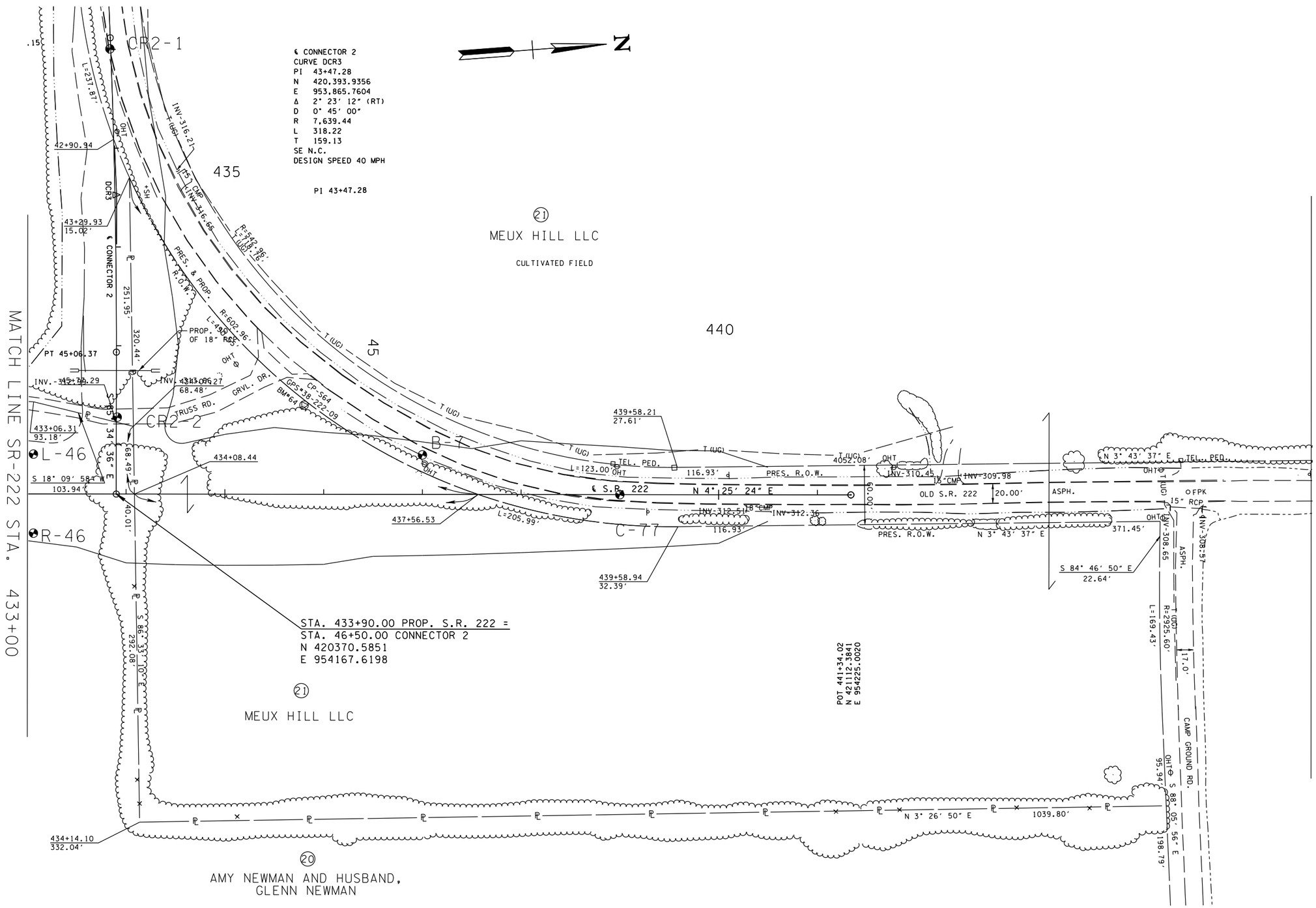

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 433+00 TO STA. 441+00

SCALE: 1"=100'

3/3/2014 2:07:44 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53A0-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AR
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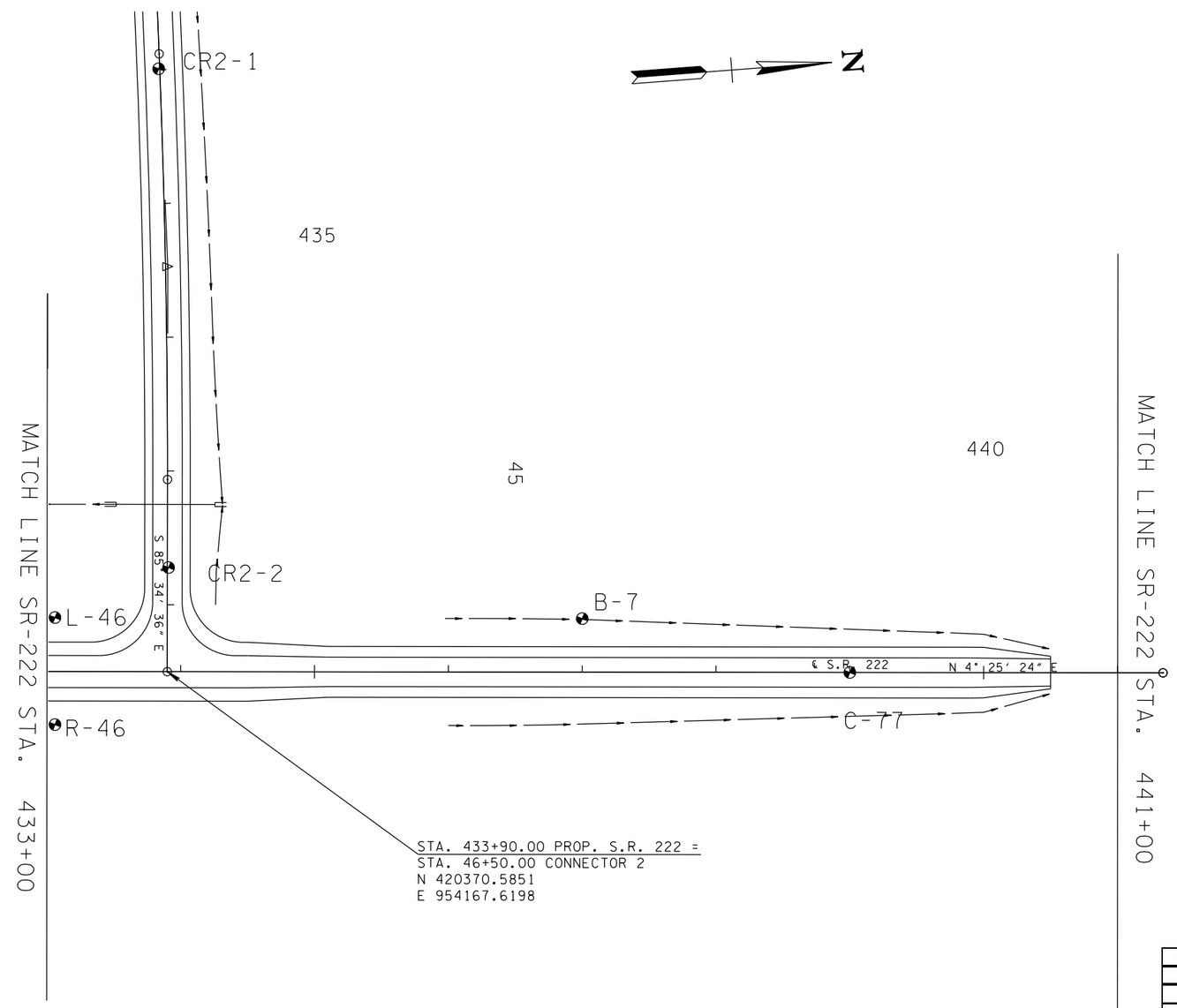


BORING NO.	PROCTOR NO.	DEPTH (ft)
B-7	11	0-15
C-77	5	0-3
CR2-1	5	0-13
CR2-2	5	0-15
L-46	11	0-10
R-46	14	0-14

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

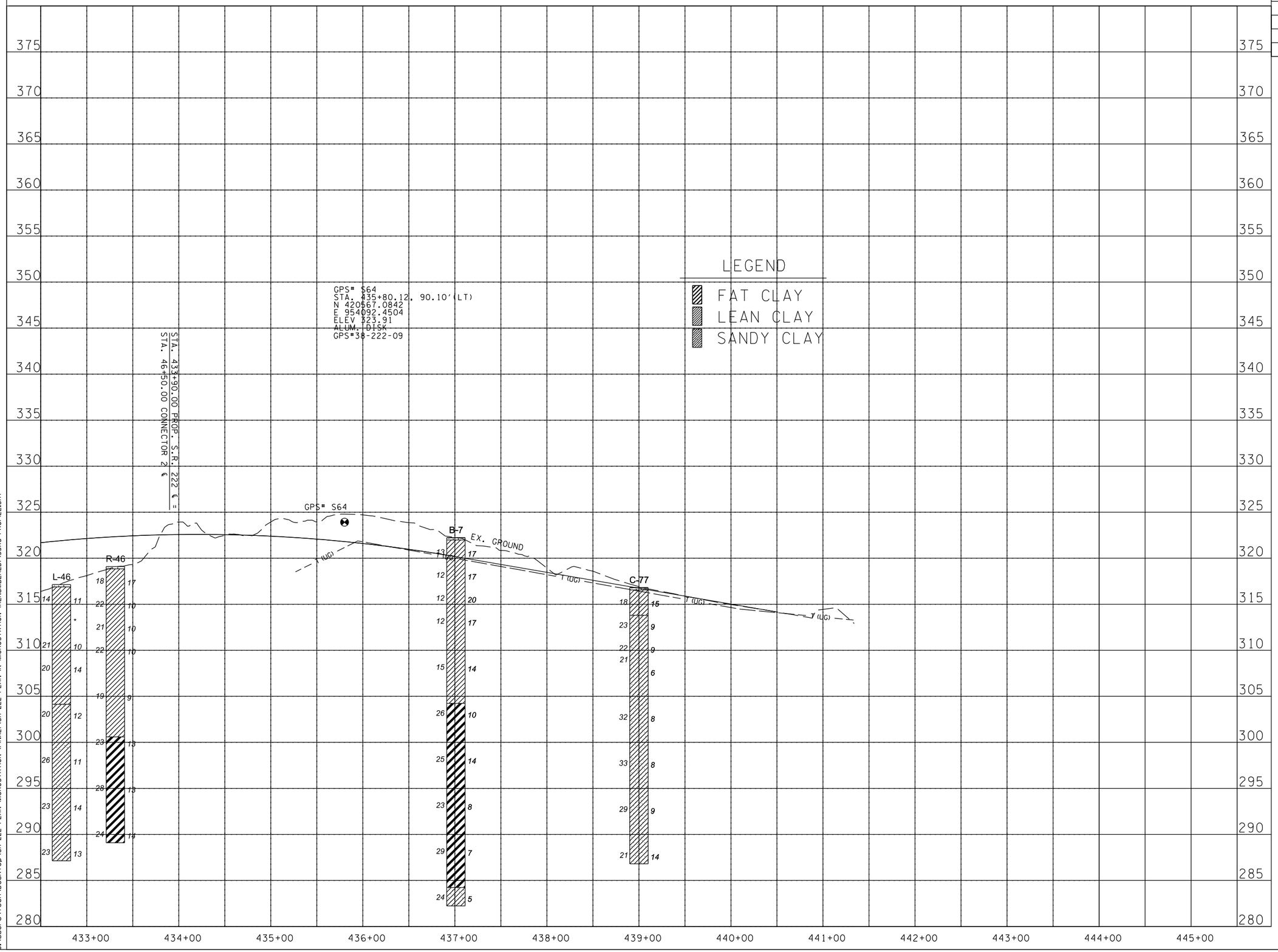
PROPOSED LAYOUT

STA. 433+00 TO STA. 441+00

SCALE: 1"=100'

3/3/2014 2:09:35 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AR-SOIL.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AS



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 433+00 TO STA. 445+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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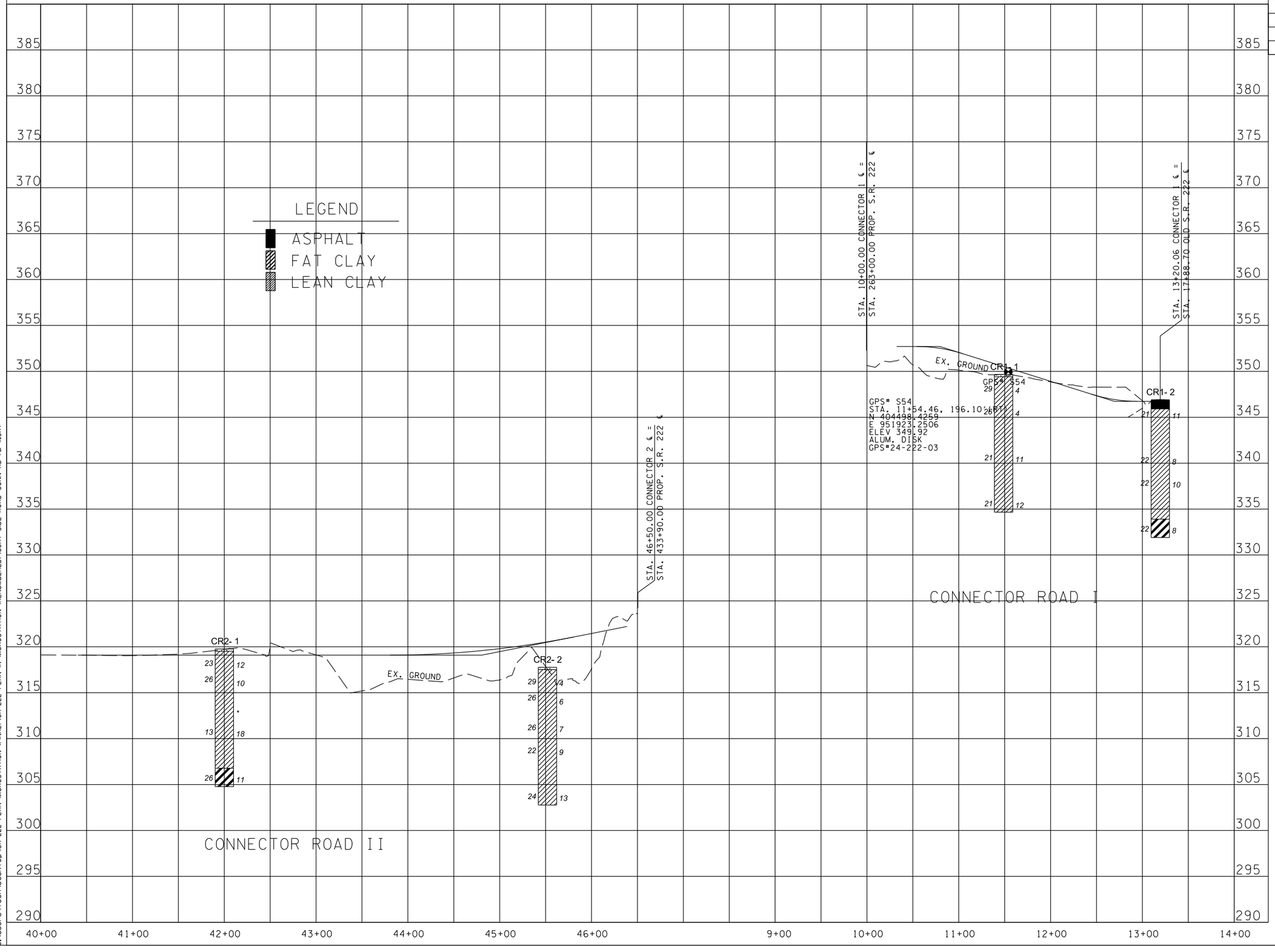
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AS-PROFILE.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AT



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

CONNECTOR ROAD I:
STA. 9+00 TO STA. 13+20
CONNECTOR ROAD II:
STA. 40+00 TO STA. 46+50

SCALE: 1"= 100' HORIZ.
1"= 10' VERT.

3/3/2014 2:44:49 PM
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AT-SIDE ROAD CONN RD I & II.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
PROFILE	2014	38016-3206-04	53AU
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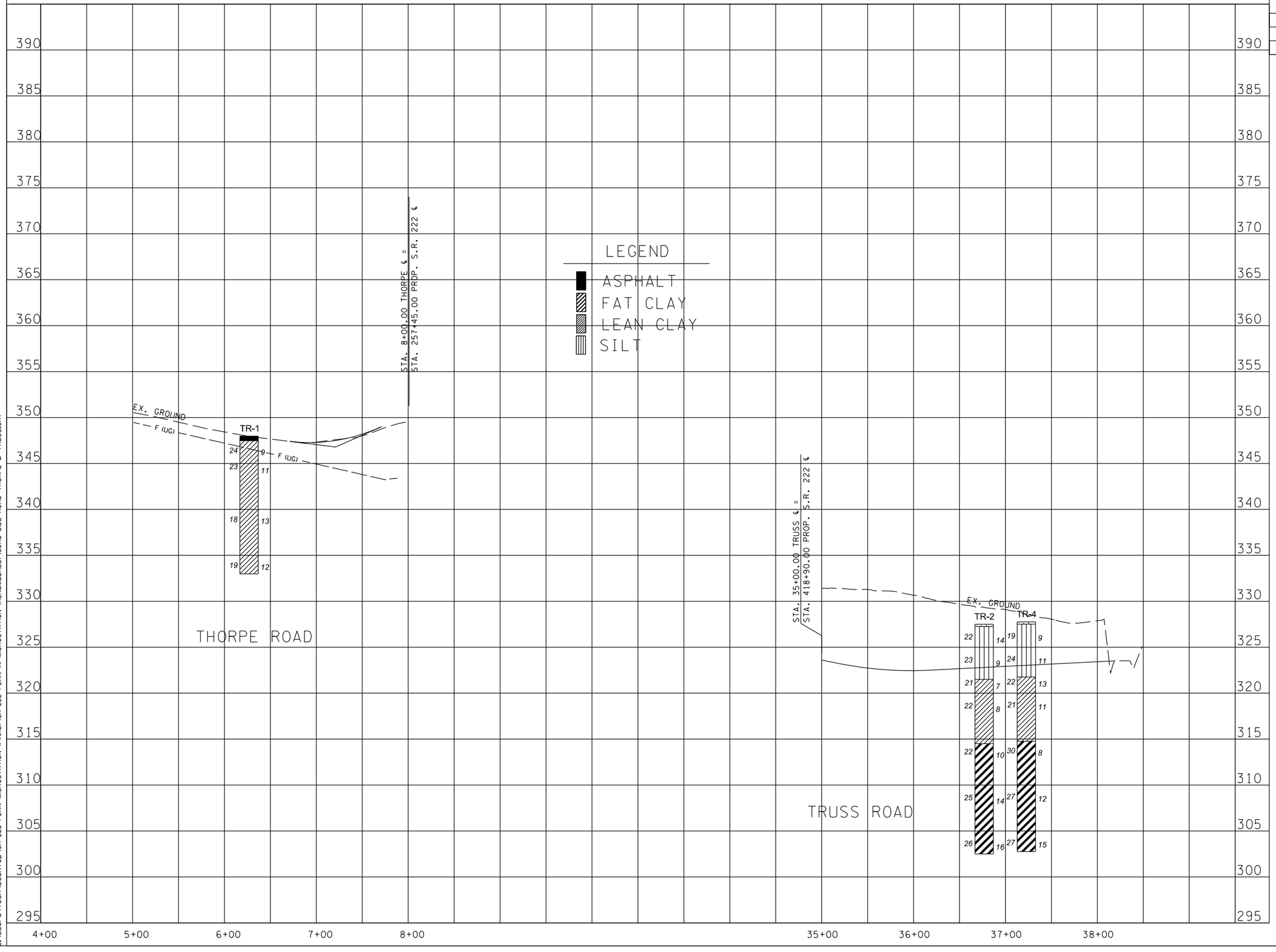

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

THORPE ROAD :
STA. 4+00 TO STA. 8+00
TRUSS ROAD :
STA. 35+00 TO STA. 38+00
SCALE: 1"= 100' HORIZ.
1"= 10' VERT.

3/3/2014 2:6:46 PM
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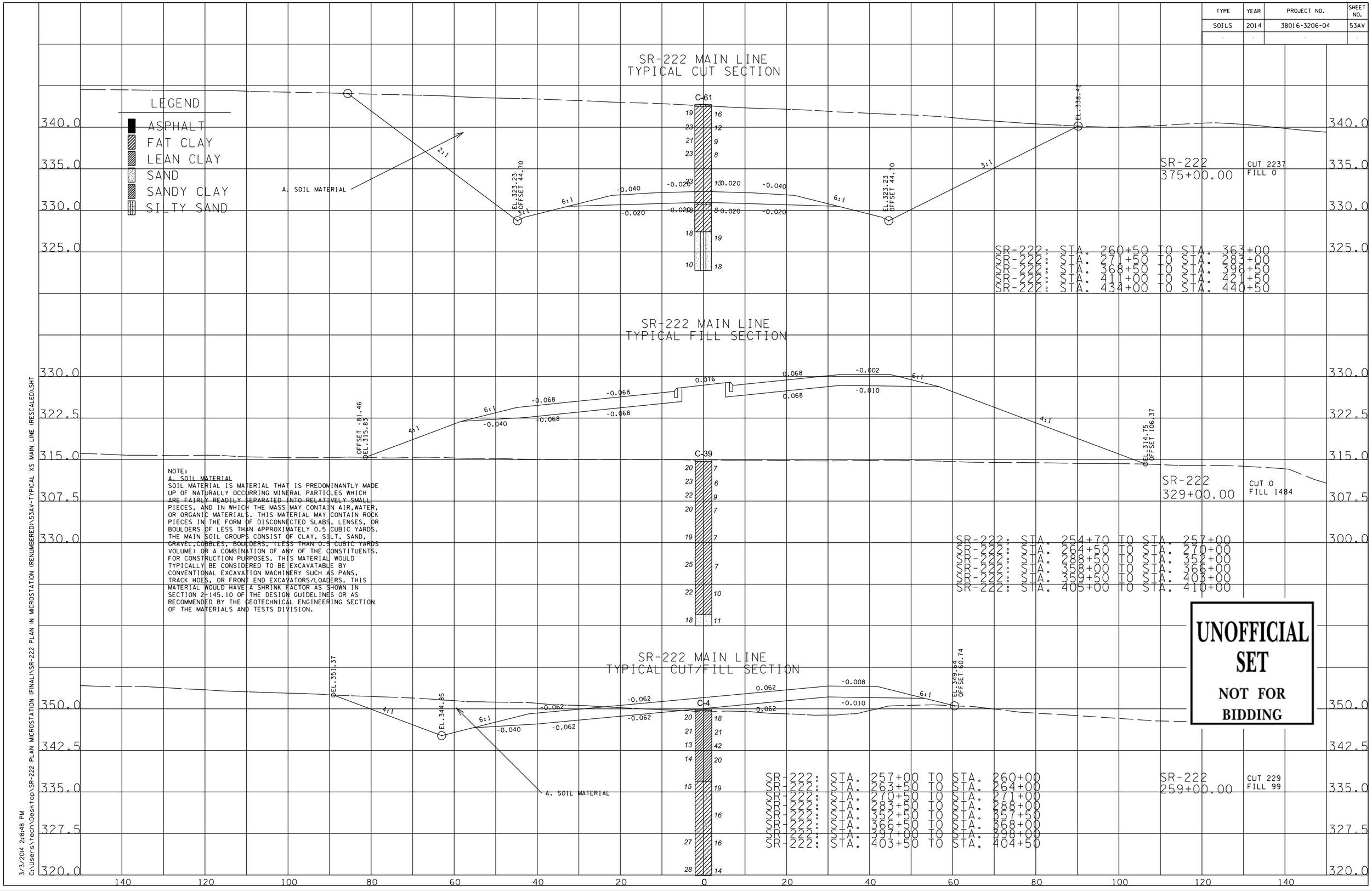
TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AV



NOTE:

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,WATER, 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 YARDS 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 SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AW

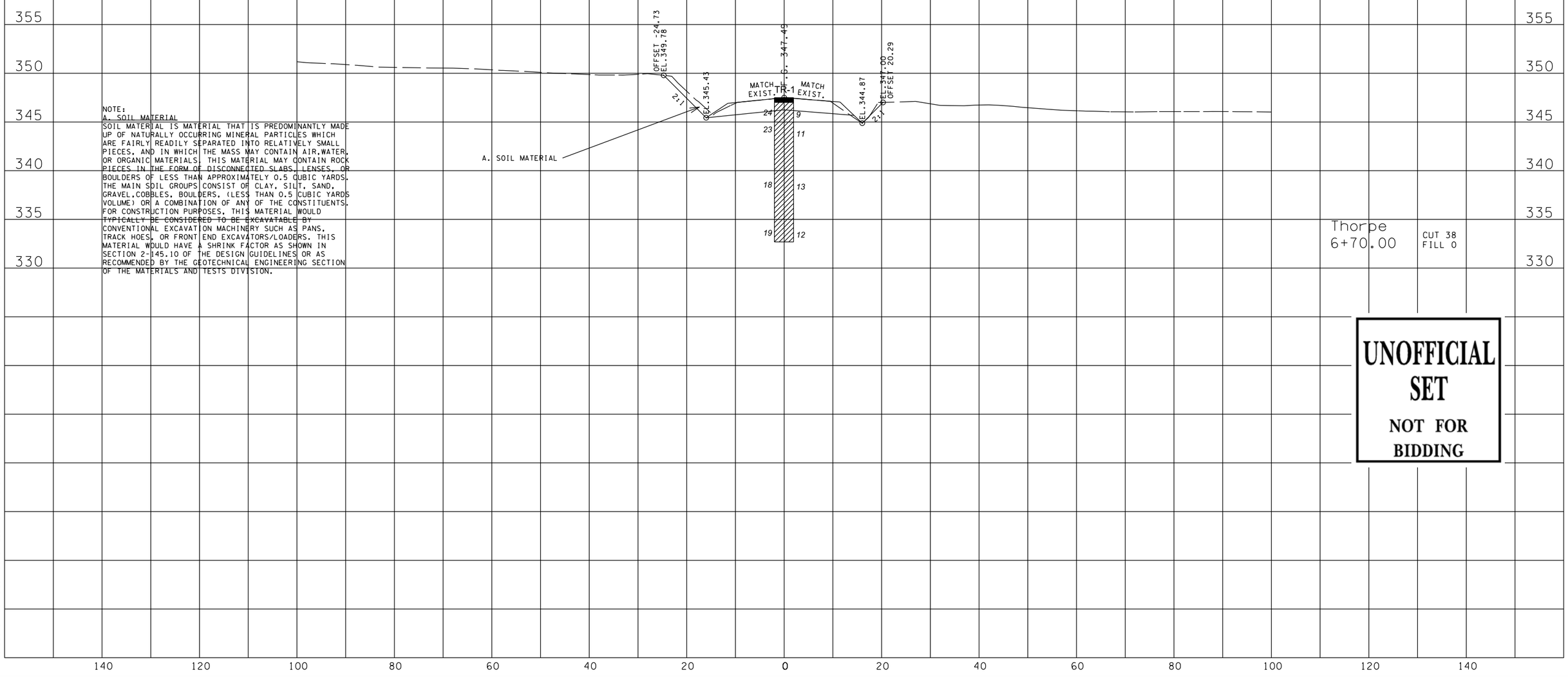
LEGEND

ASPHALT

LEAN CLAY

THORPE ROAD
TYPICAL CUT SECTION

THORPE ROAD: STA. 6+70 TO STA. 7+32



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UNOFFICIAL SET

NOT FOR BIDDING

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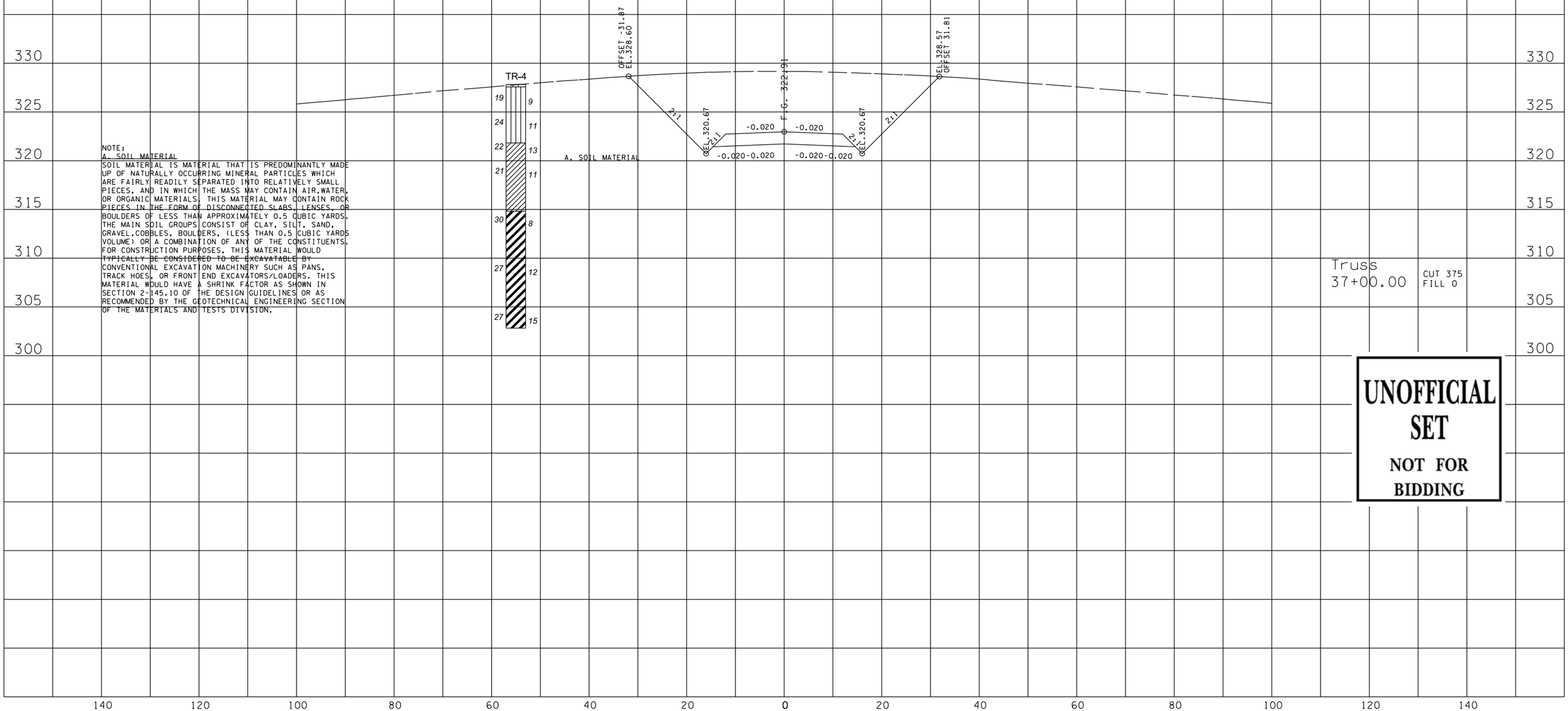
TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AX

LEGEND

- FAT CLAY
- LEAN CLAY
- SILT

TRUSS ROAD
TYPICAL CUT SECTION

TRUSS ROAD: STA. 35+00 TO STA. 38+00



NOTE:
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UNOFFICIAL SET
NOT FOR BIDDING

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

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C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53AX-TYPICAL XS TRUSS ROAD(RESCALED).SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AY

LEGEND

- ASPHALT
- FAT CLAY
- LEAN CLAY
- SILT
- SILTY SAND

NOTE:
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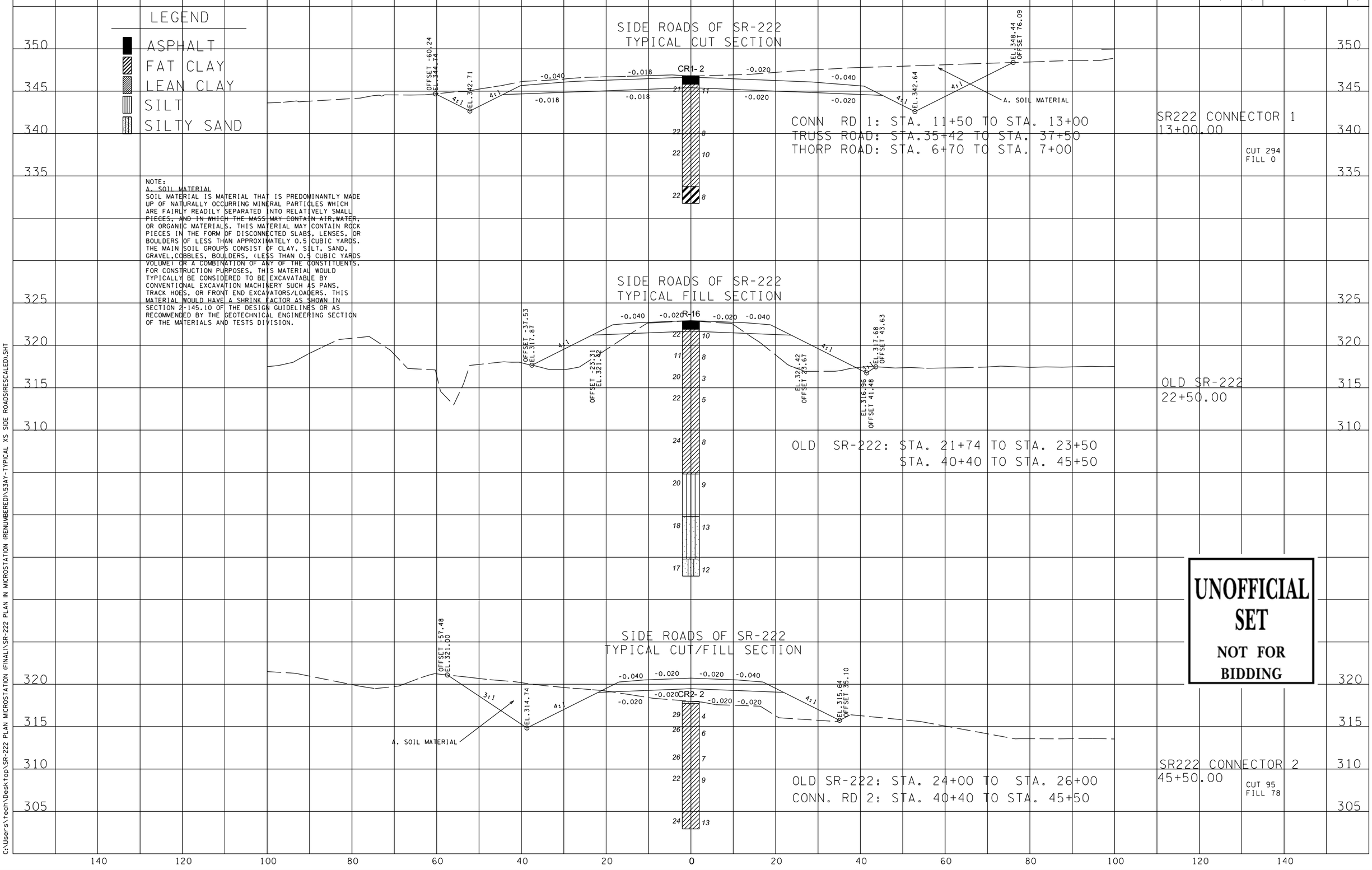

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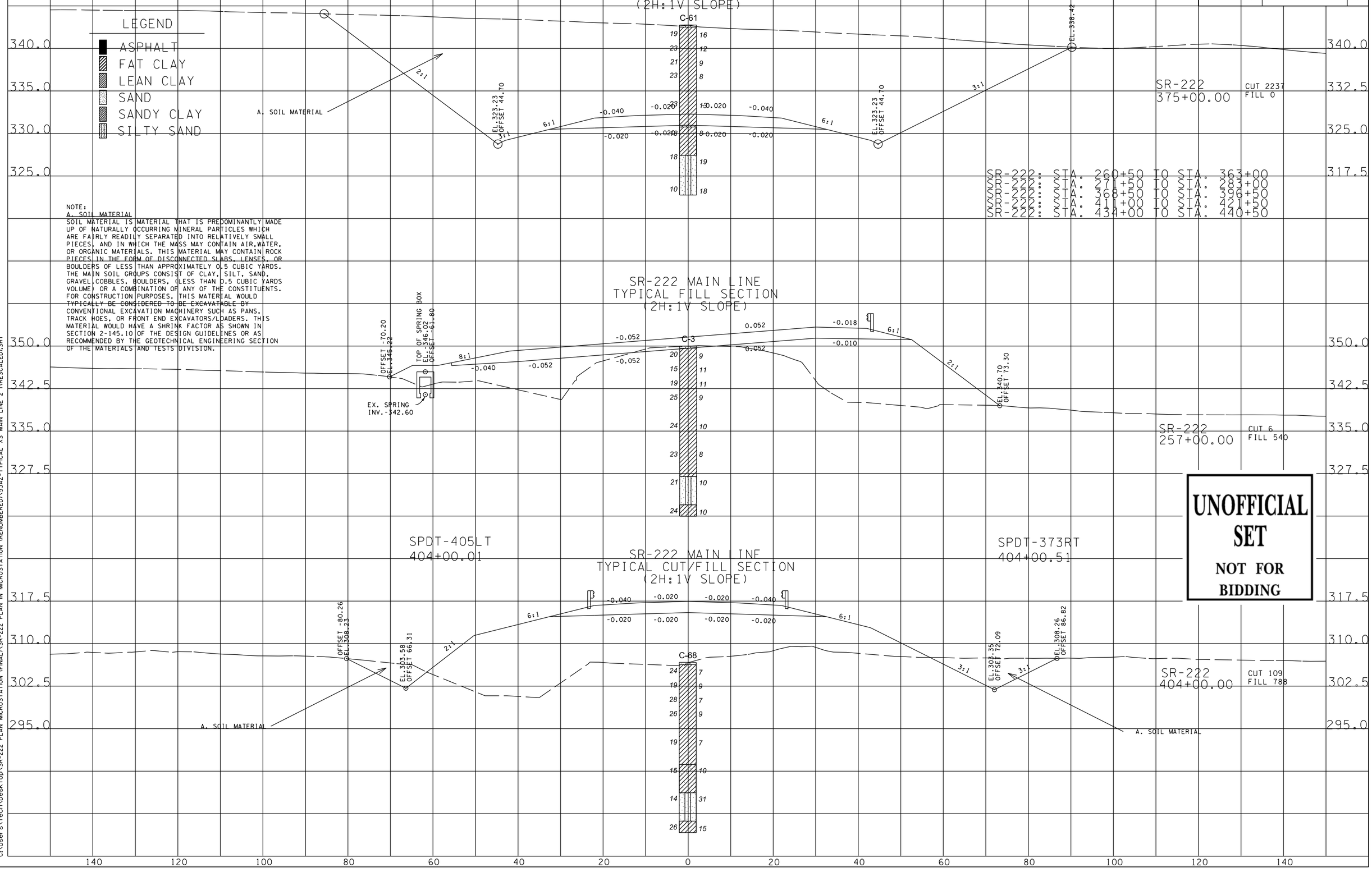
TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53AZ



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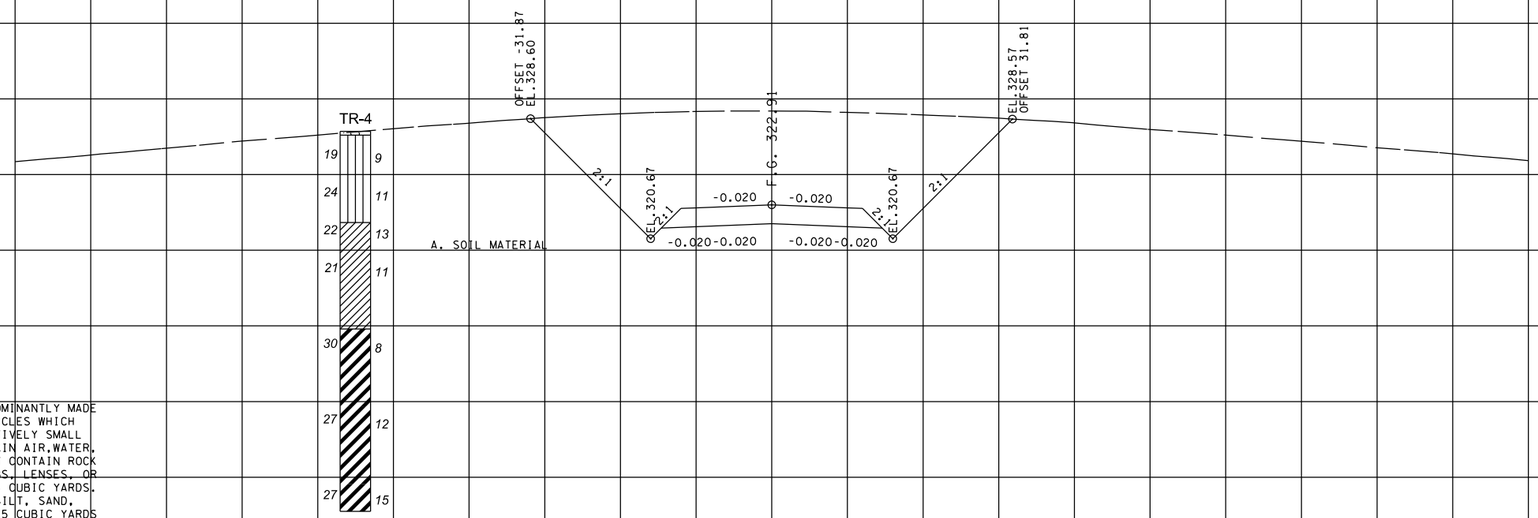
TYPE	YEAR	PROJECT NO.	SHEET NO.
SOILS	2014	38016-3206-04	53BA

LEGEND

- ASPHALT
- FAT CLAY
- LEAN CLAY
- SILT

TRUSS ROAD
TYPICAL CUT SECTION
(2H:1V SLOPE)

TRUSS ROAD: STA. 35+00 TO STA. 38+00



NOTE:
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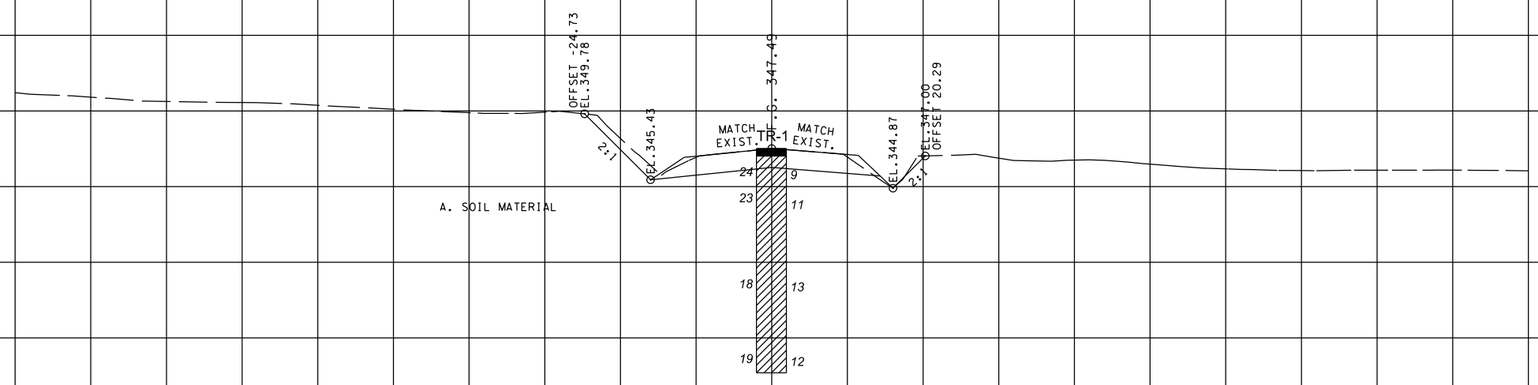
Truss
37+00.00

CUT 375
FILL 0

THORPE ROAD
TYPICAL CUT SECTION
(2H:1V SLOPE)

THORPE ROAD: STA. 6+70 TO STA. 7+32



Thorpe
6+70.00

CUT 38
FILL 0

UNOFFICIAL SET
NOT FOR BIDDING

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

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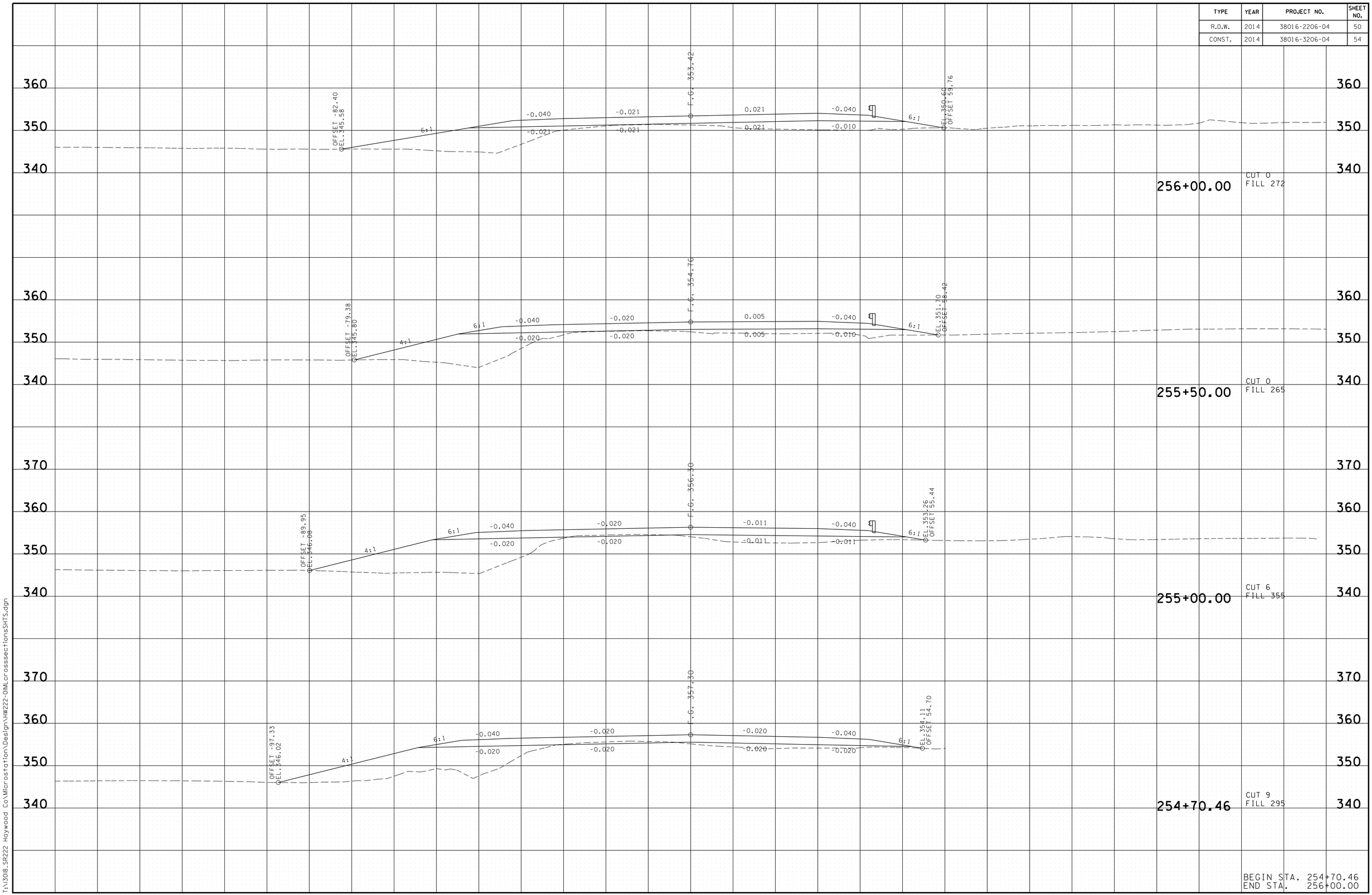
C:\Users\tech\Desktop\SR-222 PLAN MICROSTATION (FINAL)\SR-222 PLAN IN MICROSTATION (RENUMBERED)\53BA-TYPICAL XS SIDE ROAD 2.1RESCALED.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	50
CONST.	2014	38016-3206-04	54



3/13/2014 7:22:39 AM
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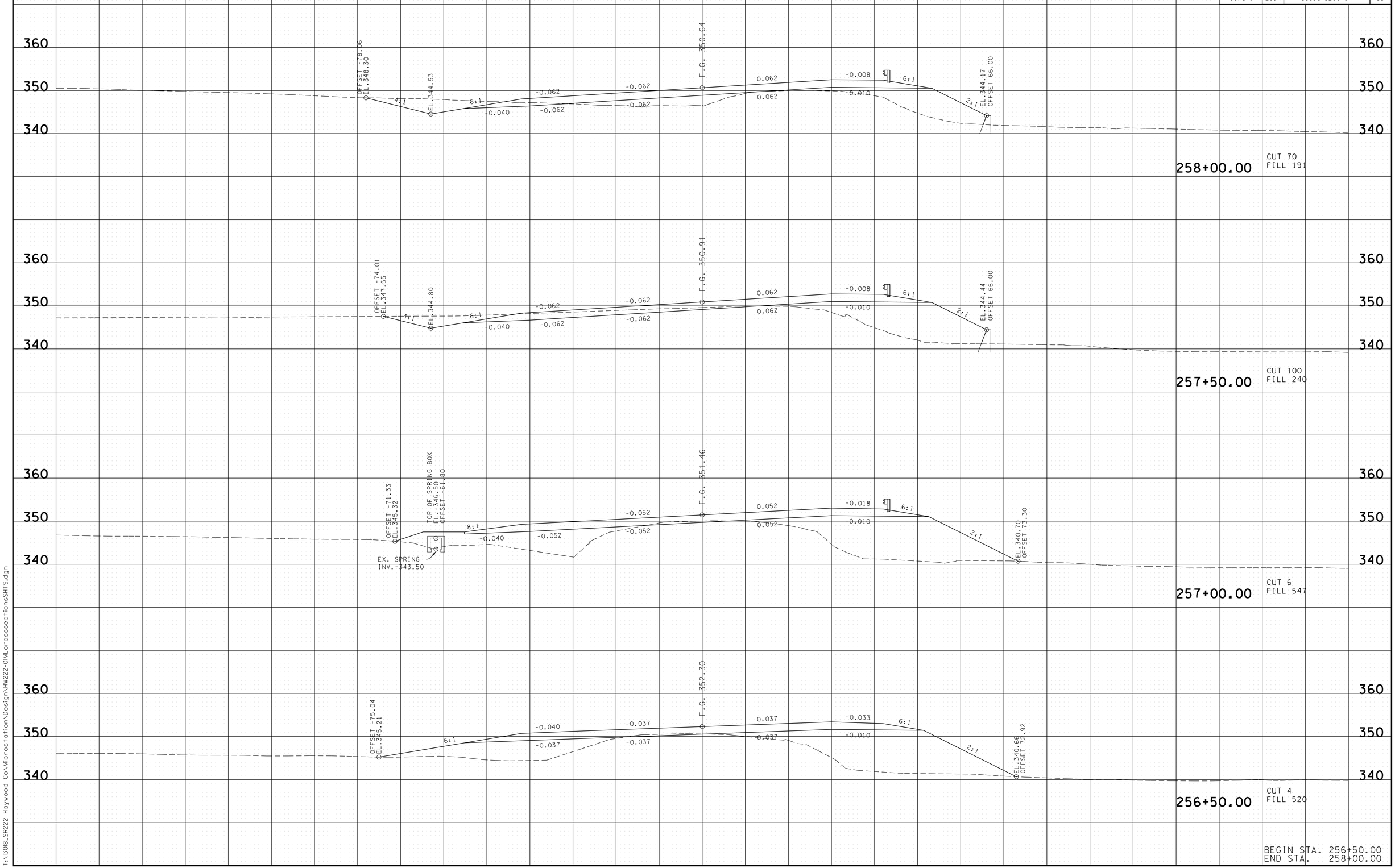
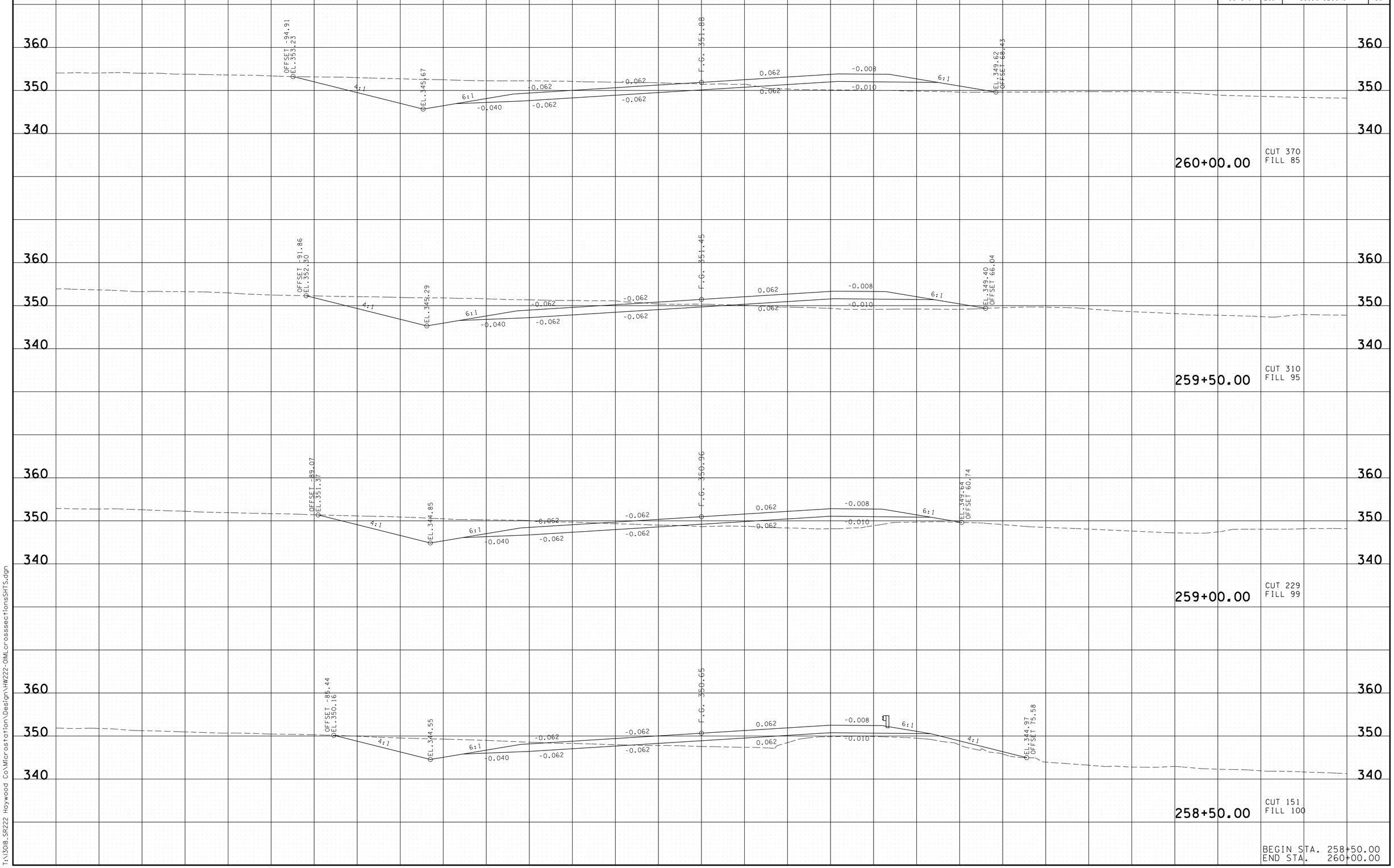
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	51
CONST.	2014	38016-3206-04	55



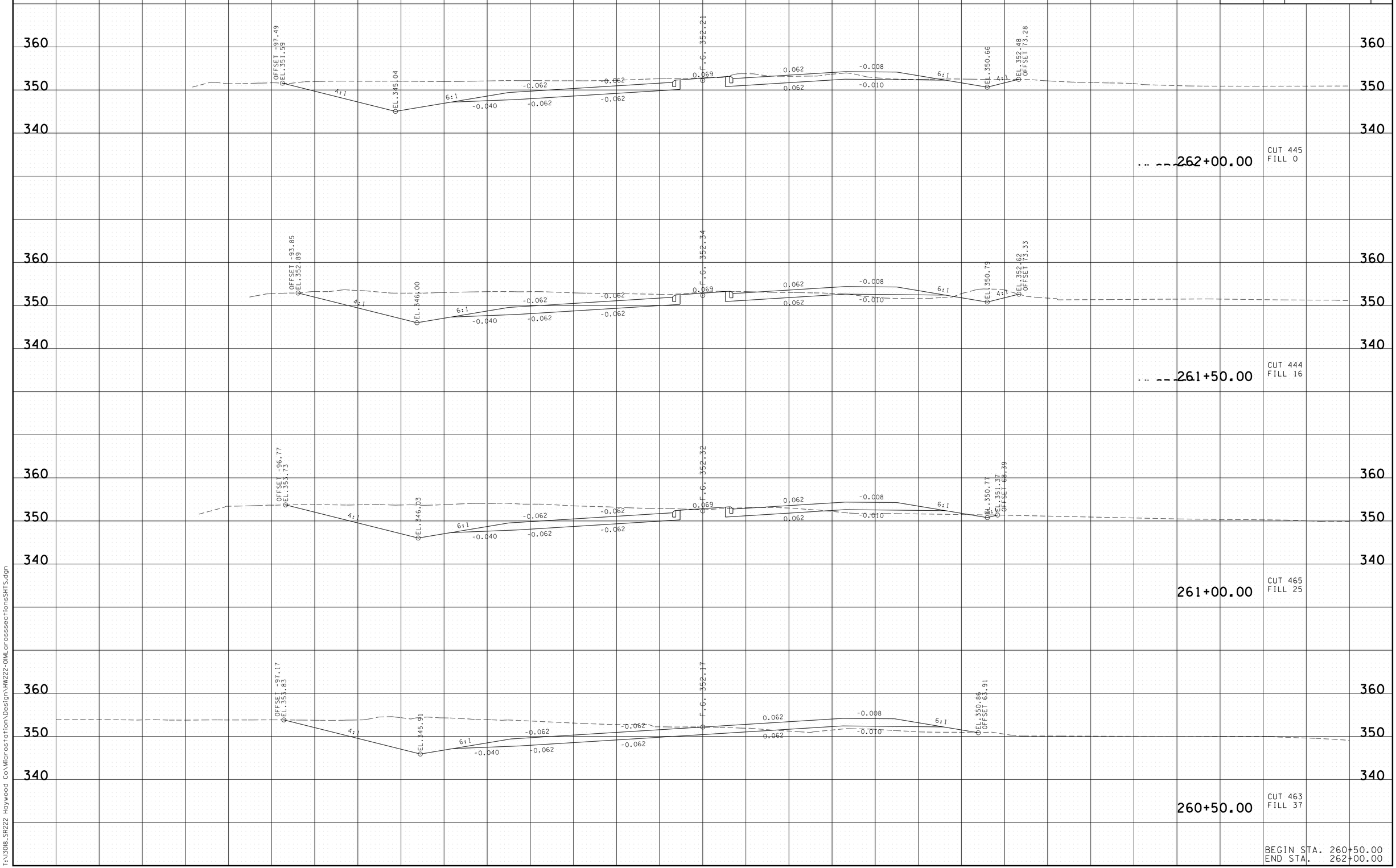
3/13/2014 7:22:44 AM
T:\3018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	52
CONST.	2014	38016-3206-04	56



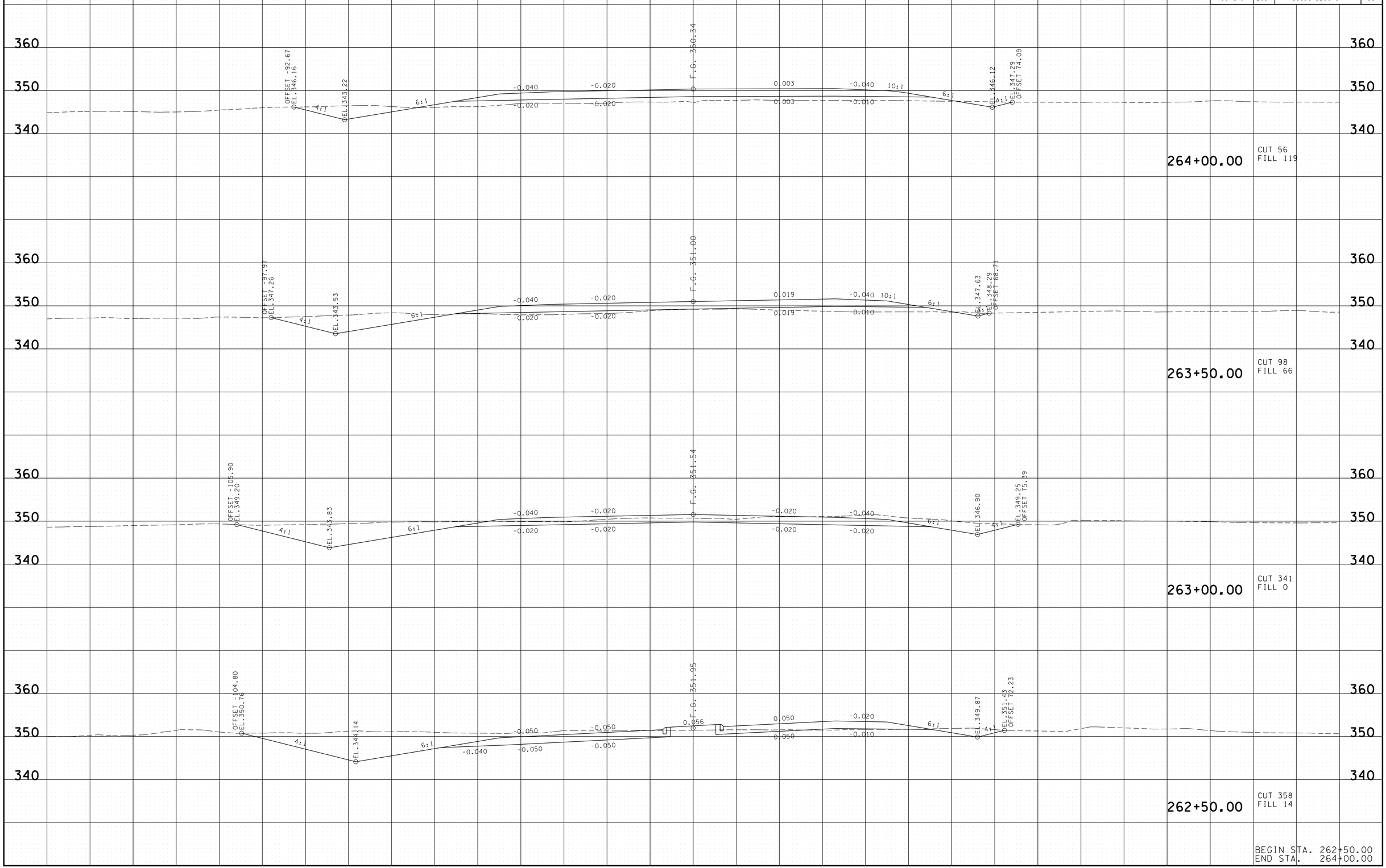
3/13/2014 7:22:49 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	53
CONST.	2014	38016-3206-04	57



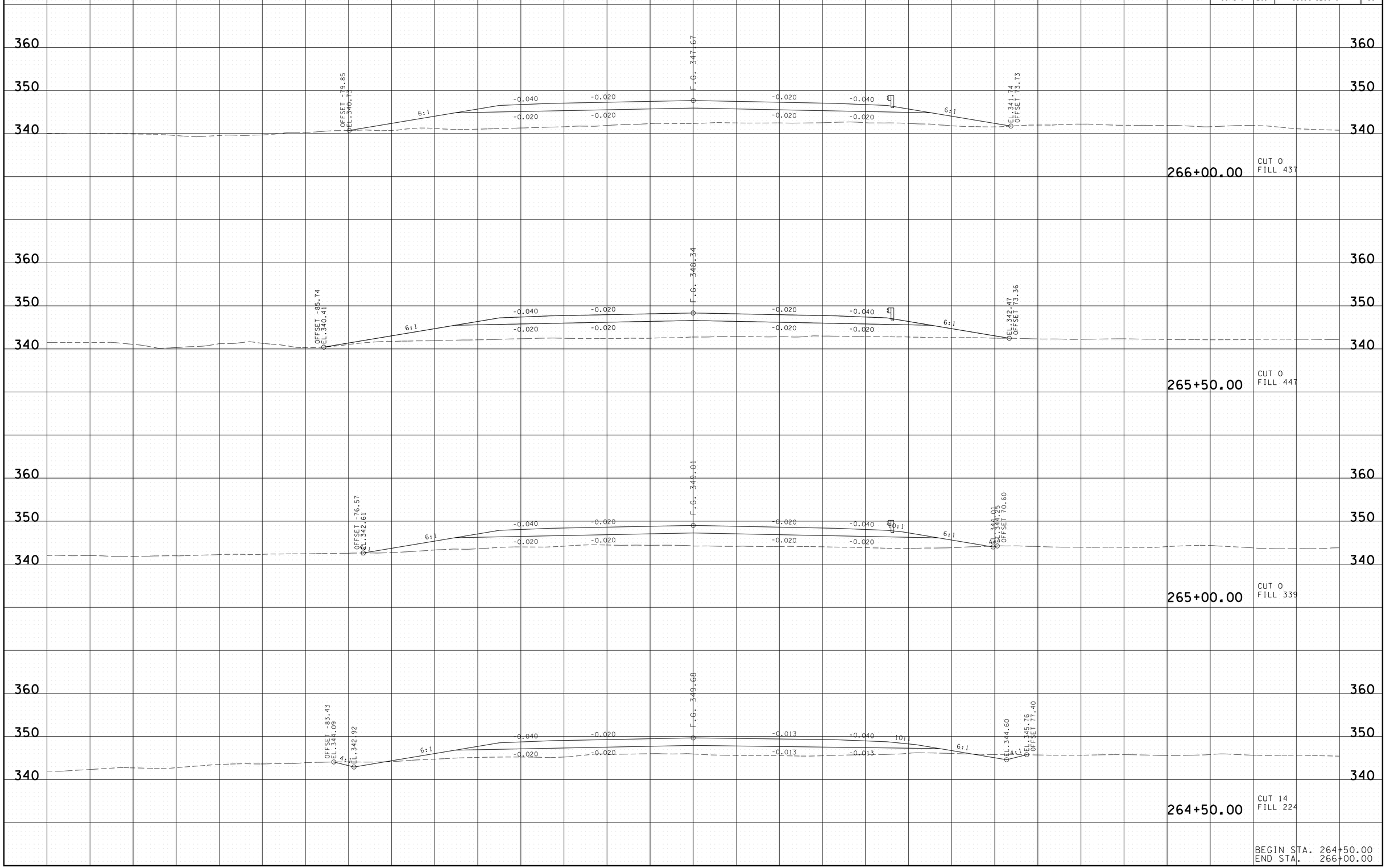
3/13/2014 7:22:54 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	54
CONST.	2014	38016-3206-04	58



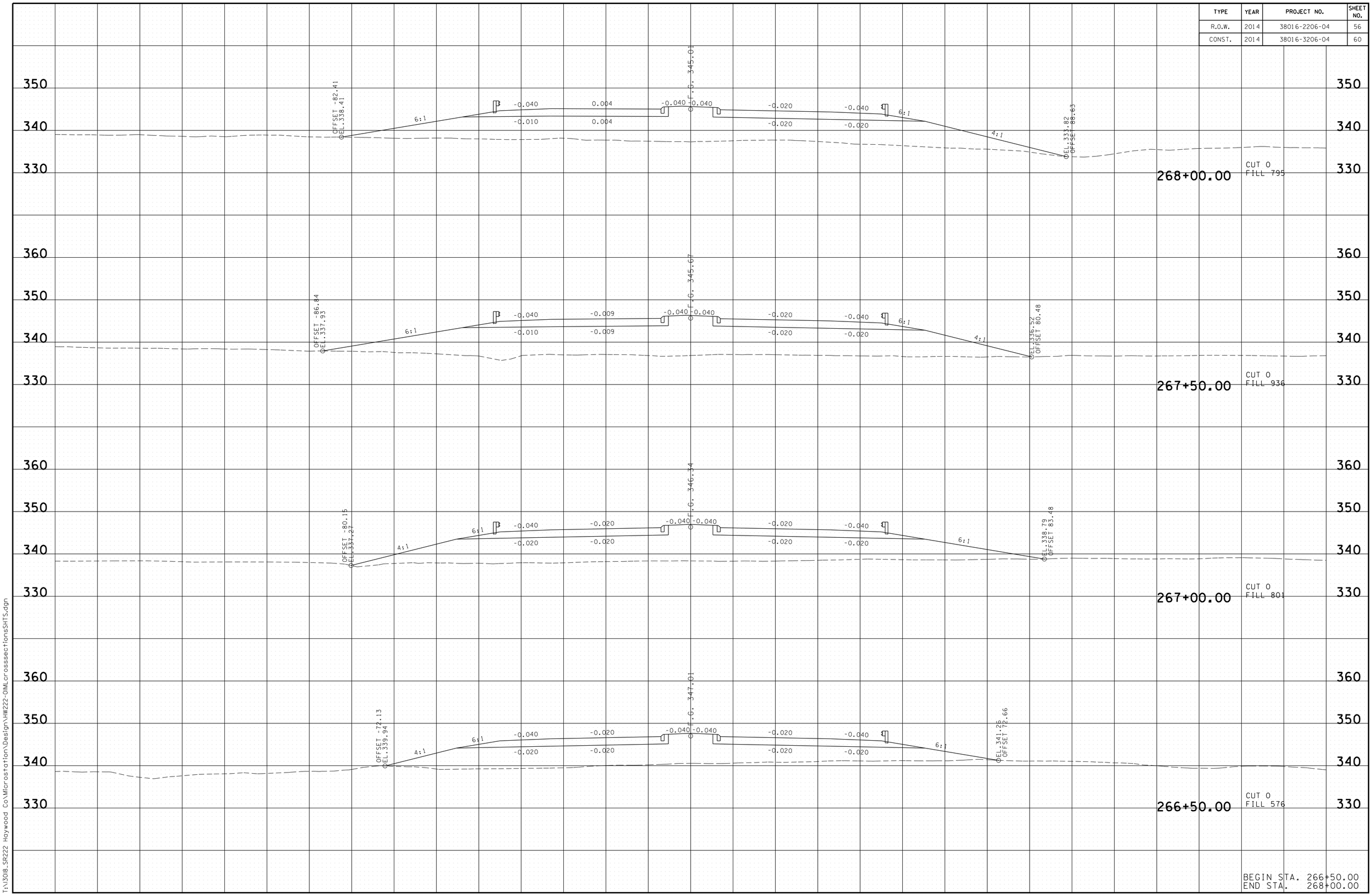
3/13/2014 7:22:59 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	55
CONST.	2014	38016-3206-04	59



3/13/2014 7:23:04 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

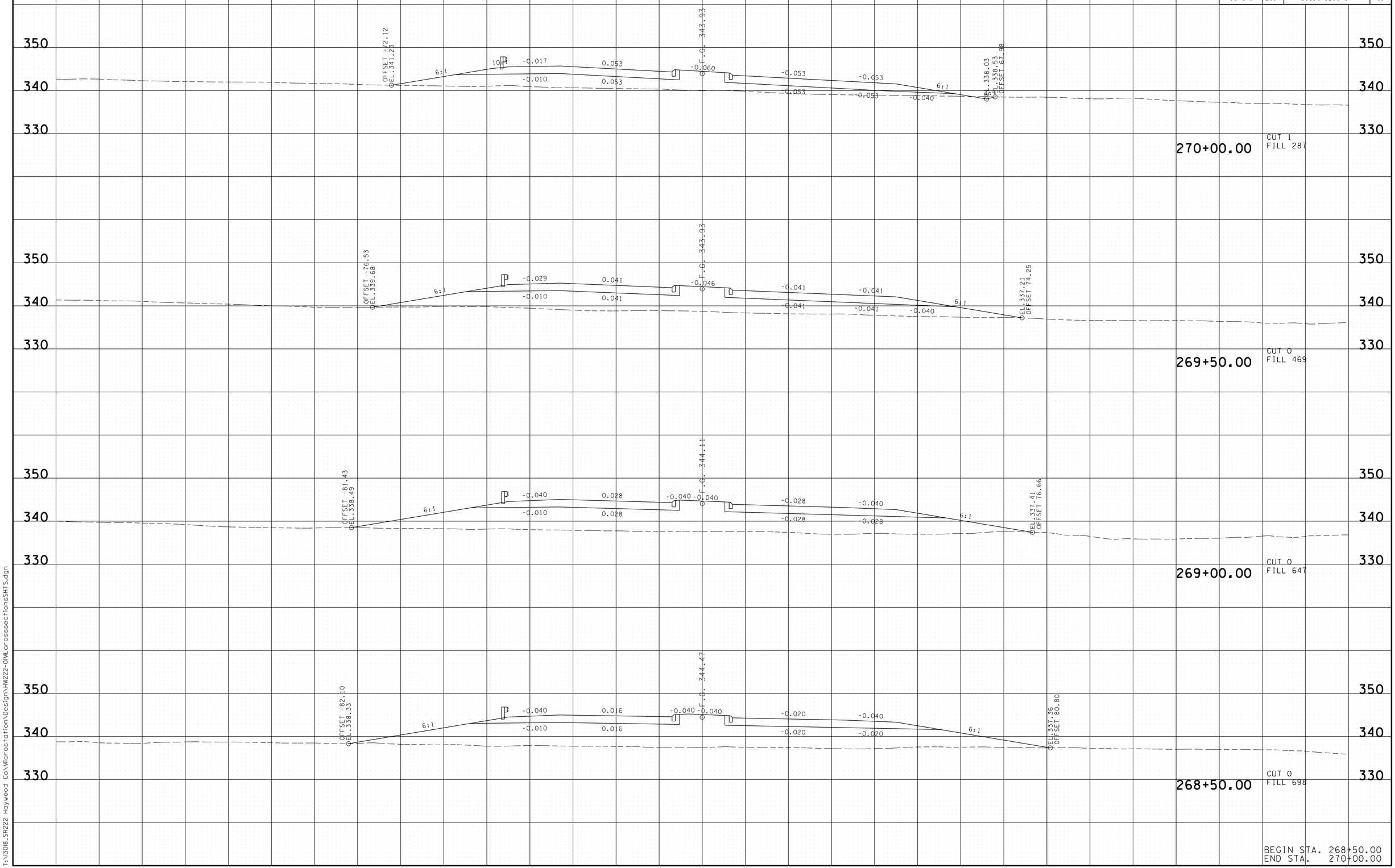
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	56
CONST.	2014	38016-3206-04	60



BEGIN STA. 266+50.00
END STA. 268+00.00

3/13/2014 7:23:09 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	57
CONST.	2014	38016-3206-04	61



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3/13/2014 7:23:13 AM
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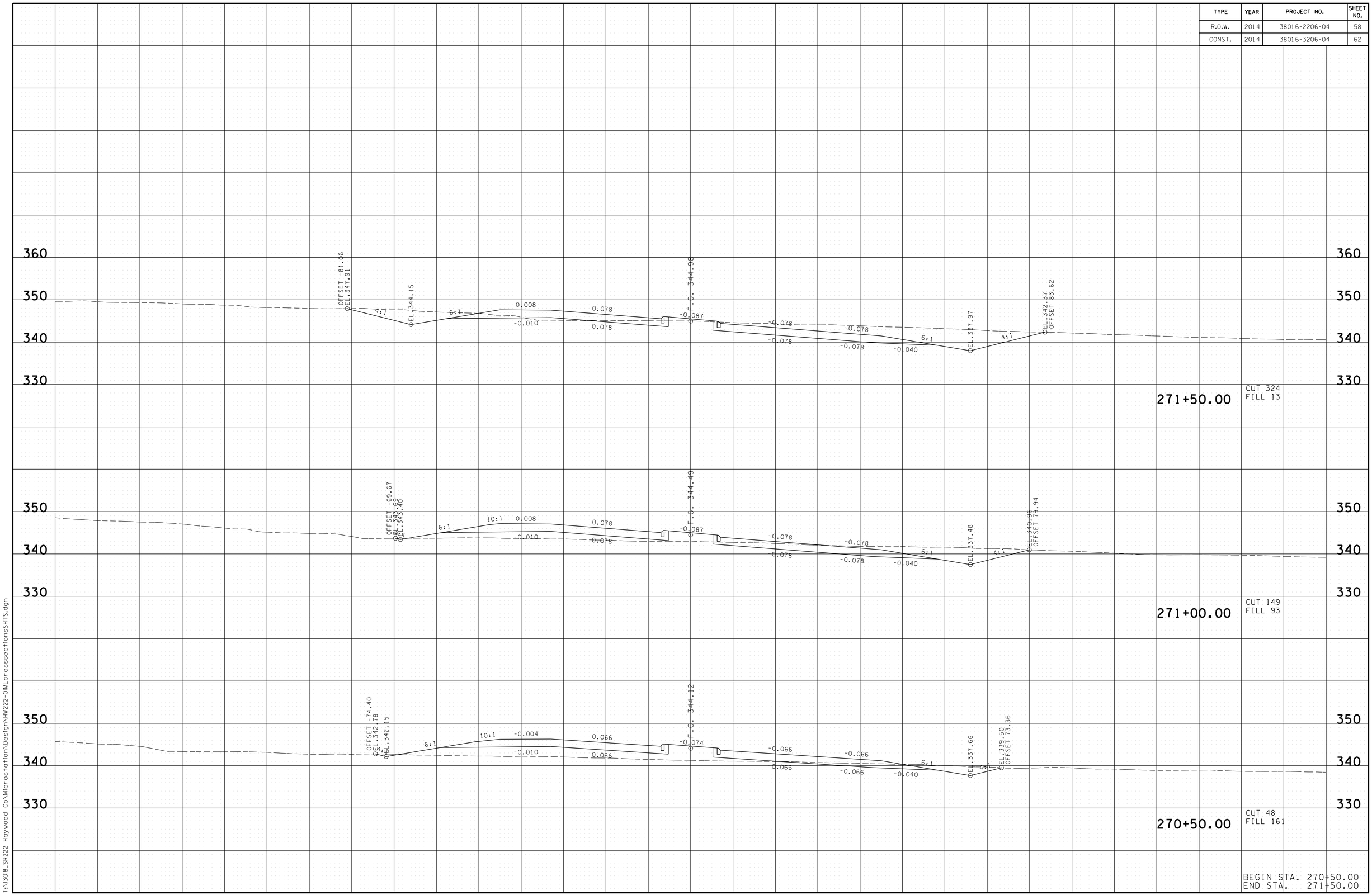
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	58
CONST.	2014	38016-3206-04	62



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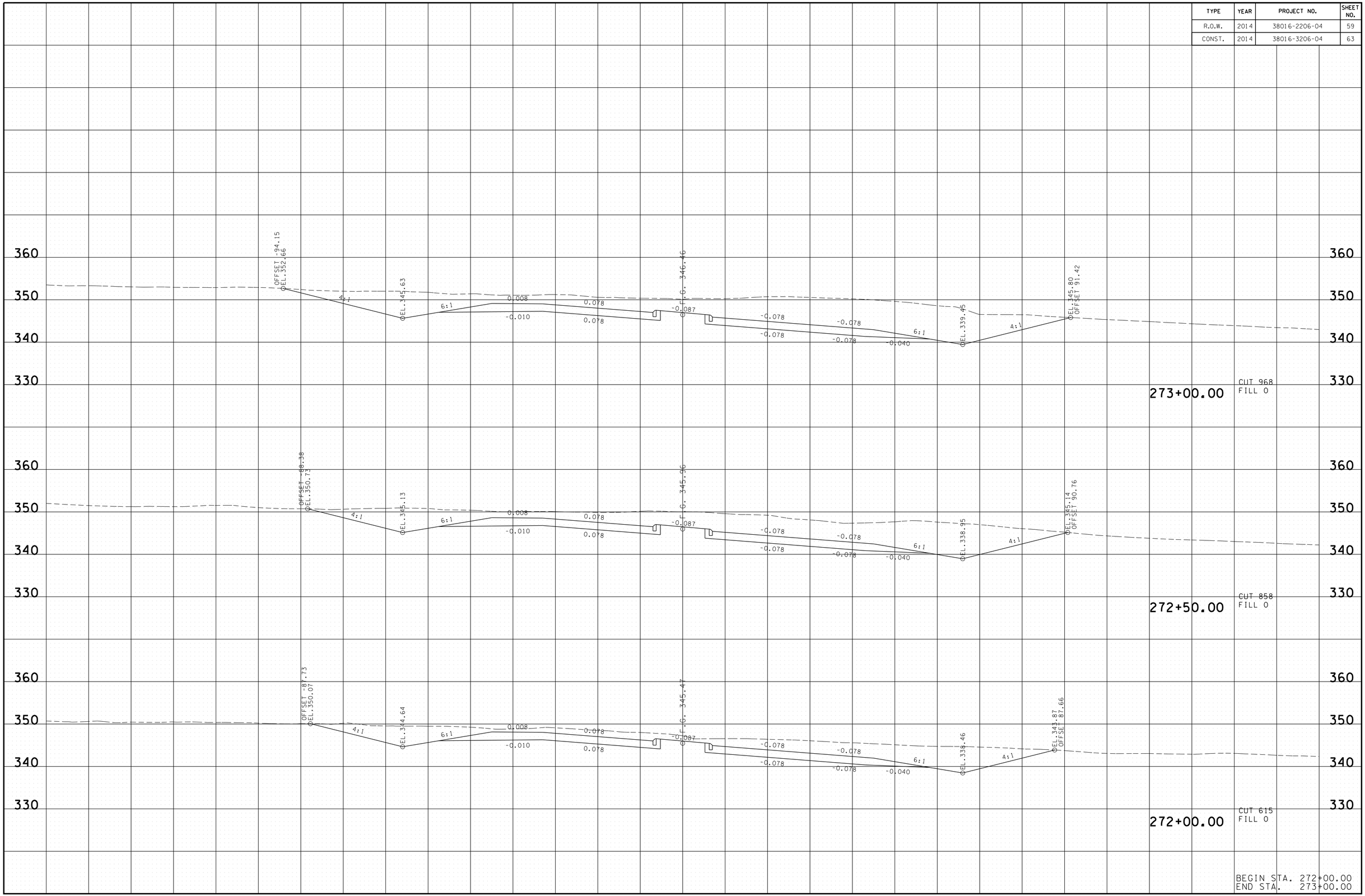
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	59
CONST.	2014	38016-3206-04	63



BEGIN STA. 272+00.00
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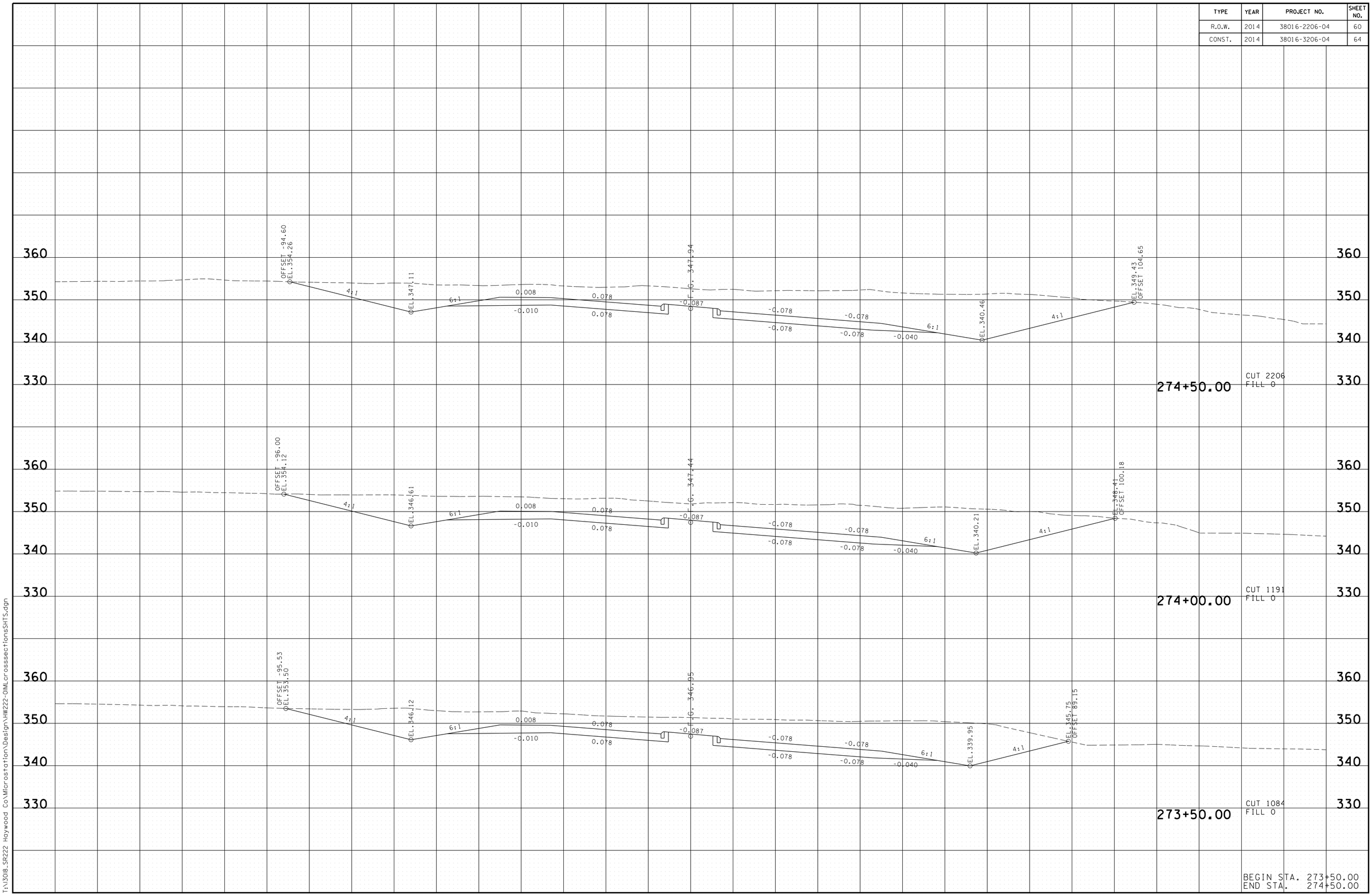
3/13/2014 7:23:23 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrosssectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	60
CONST.	2014	38016-3206-04	64



BEGIN STA. 273+50.00
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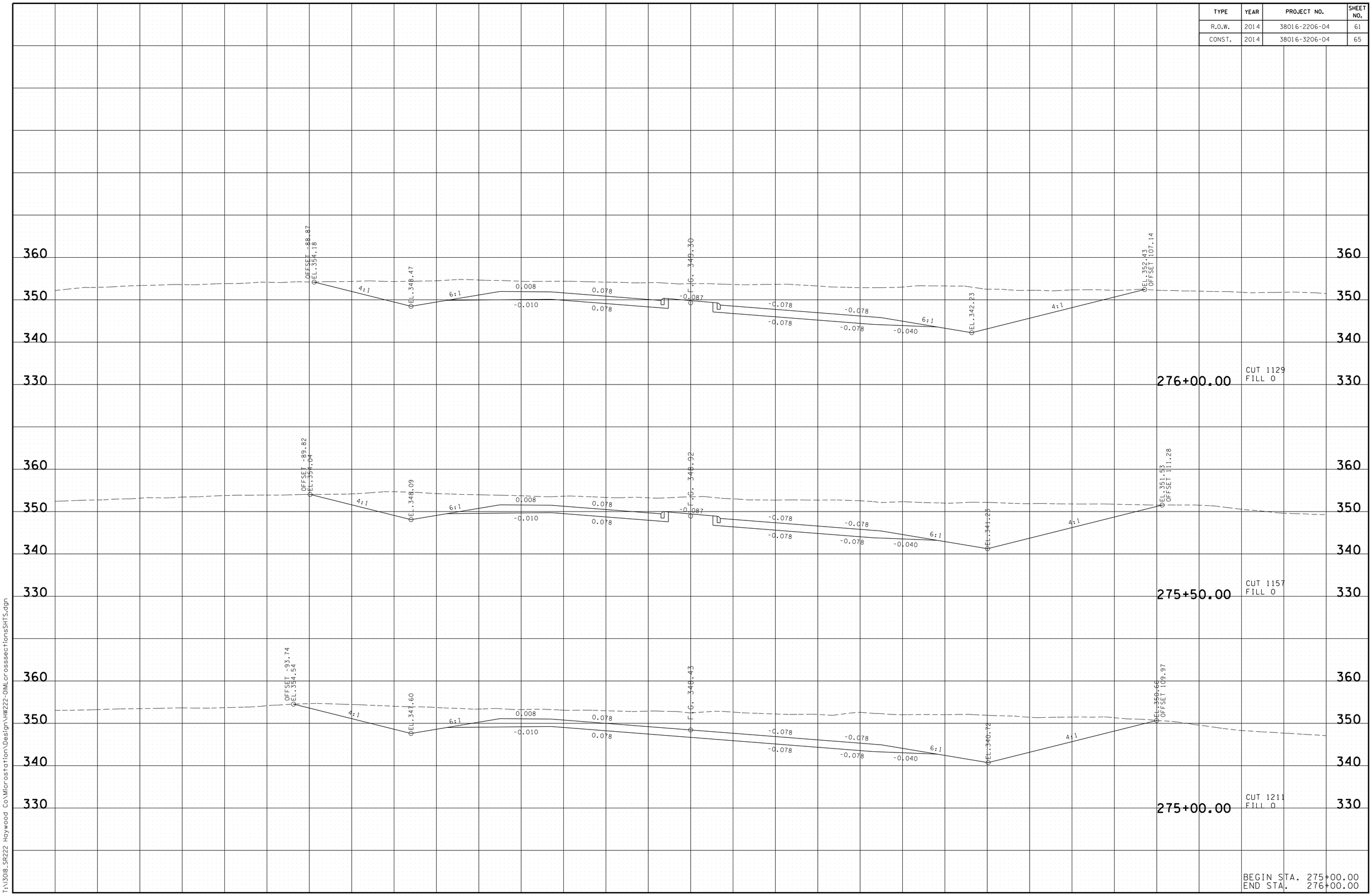
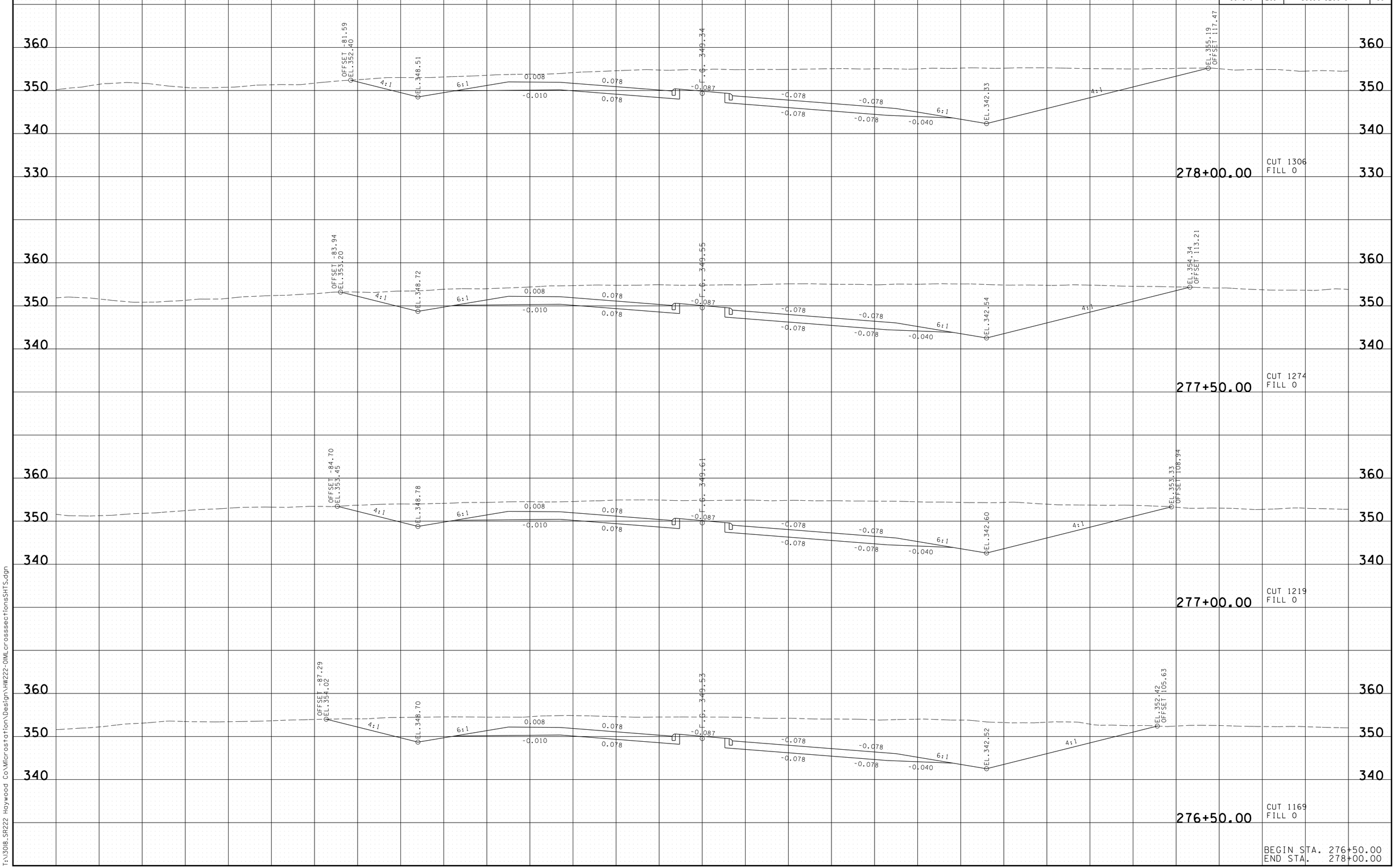
3/13/2014 7:23:28 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrosssectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	61
CONST.	2014	38016-3206-04	65



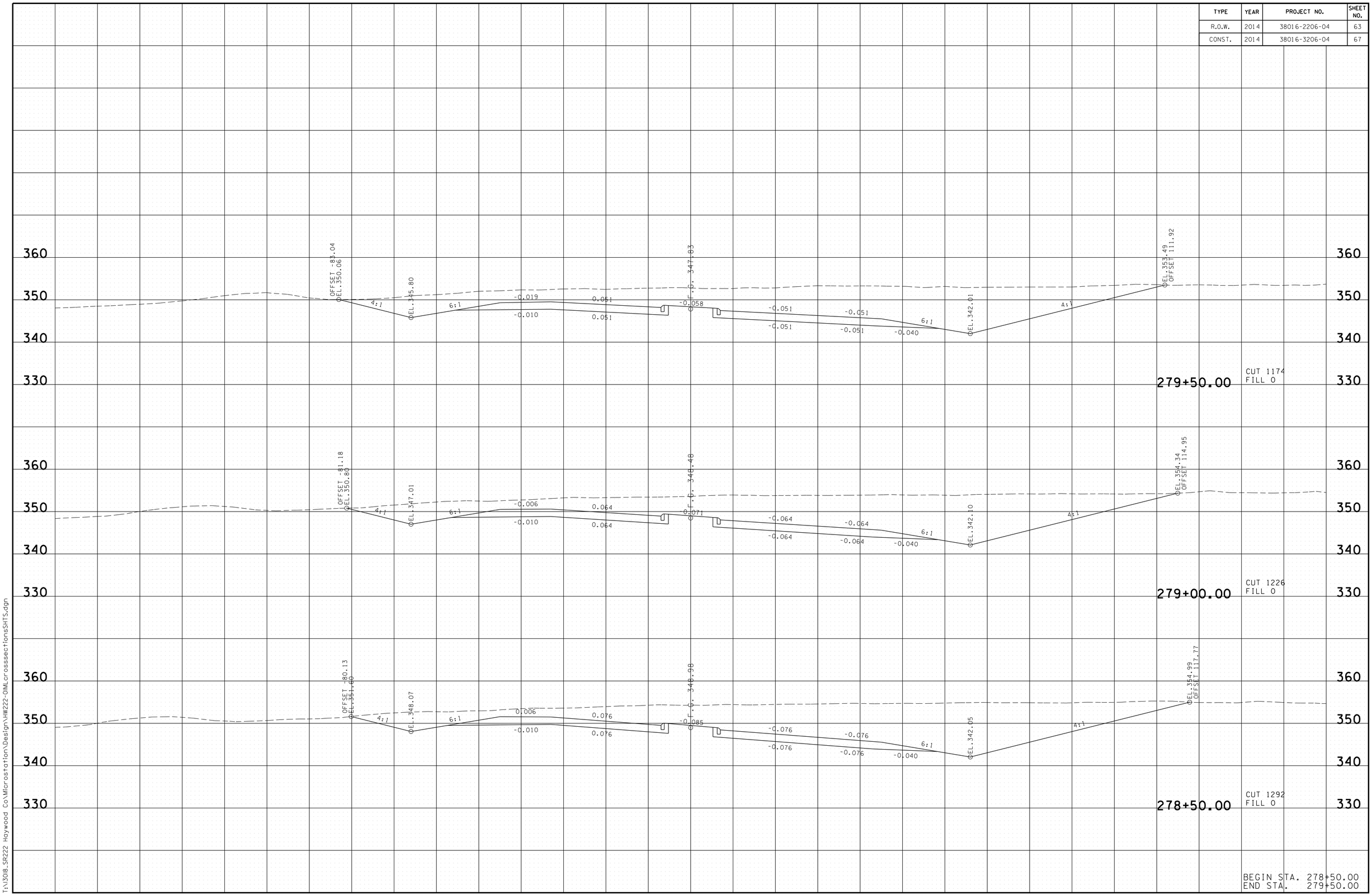
3/13/2014 1:23:33 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OMLcrosssectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	62
CONST.	2014	38016-3206-04	66



3/13/2014 7:23:38 AM
T:\3018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	63
CONST.	2014	38016-3206-04	67



BEGIN STA. 278+50.00
END STA. 279+50.00

3/13/2014 7:23:43 AM
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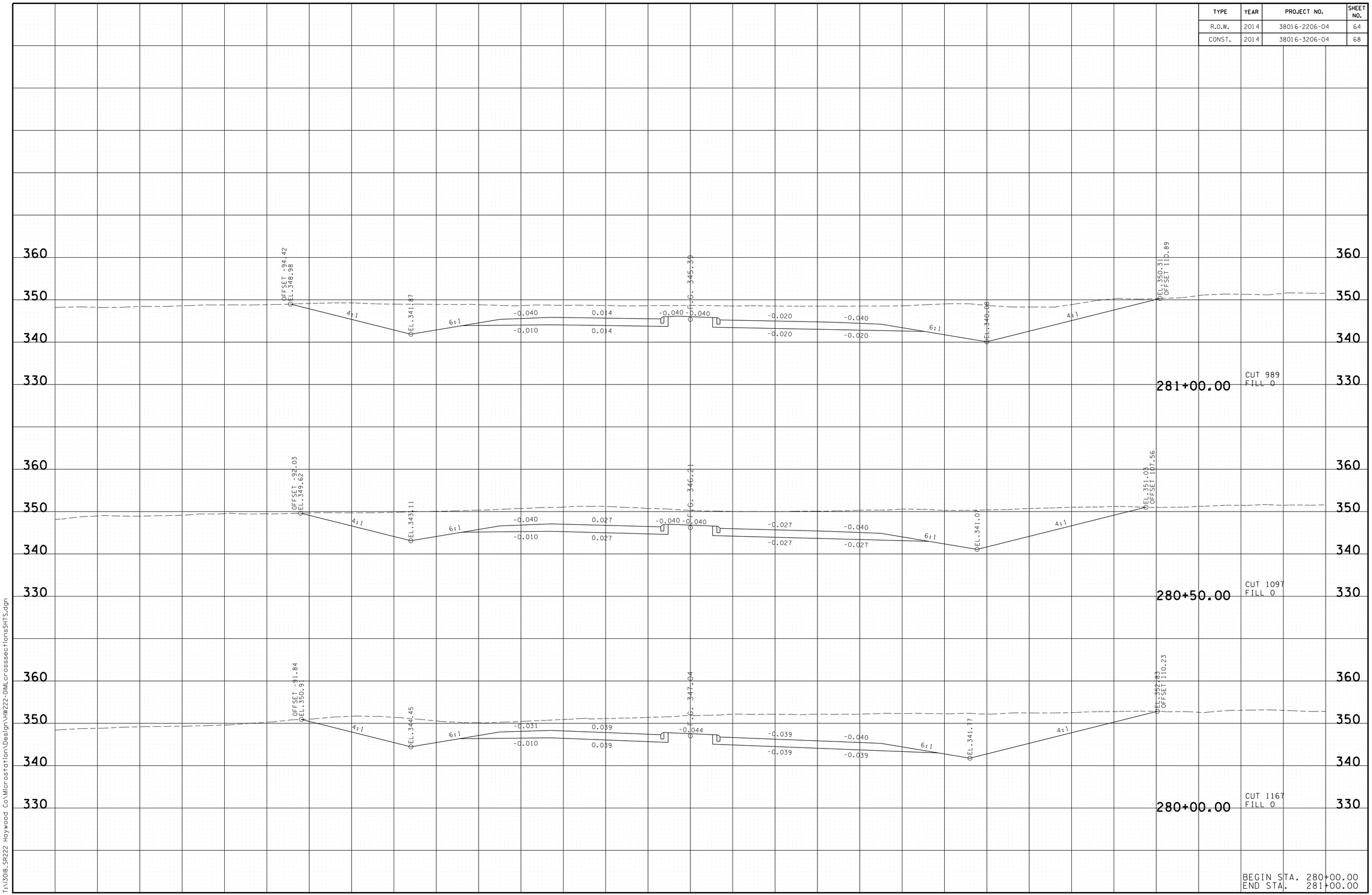
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	64
CONST.	2014	38016-3206-04	68



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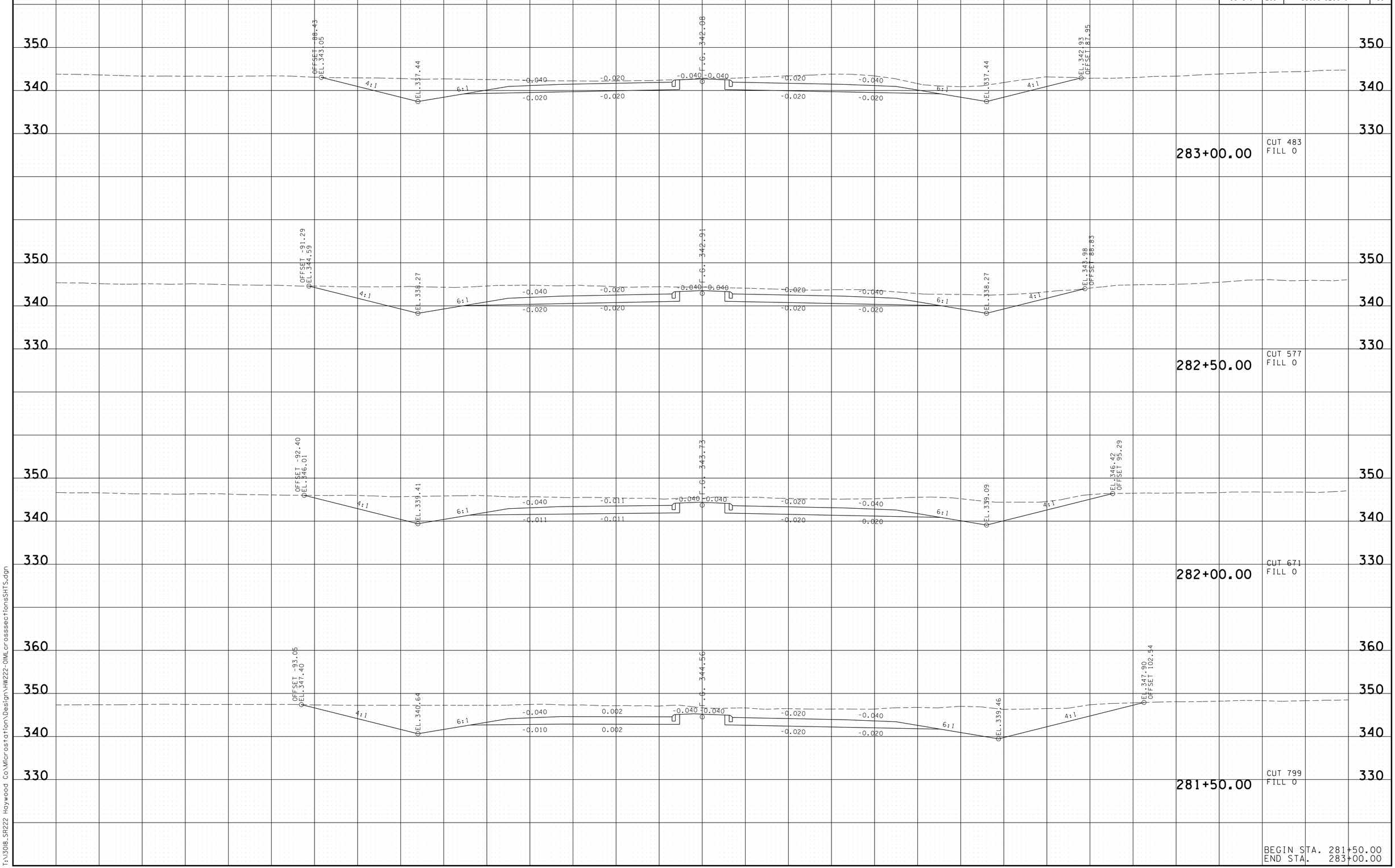
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	65
CONST.	2014	38016-3206-04	69



BEGIN STA. 281+50.00
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3/13/2014 7:23:53 AM
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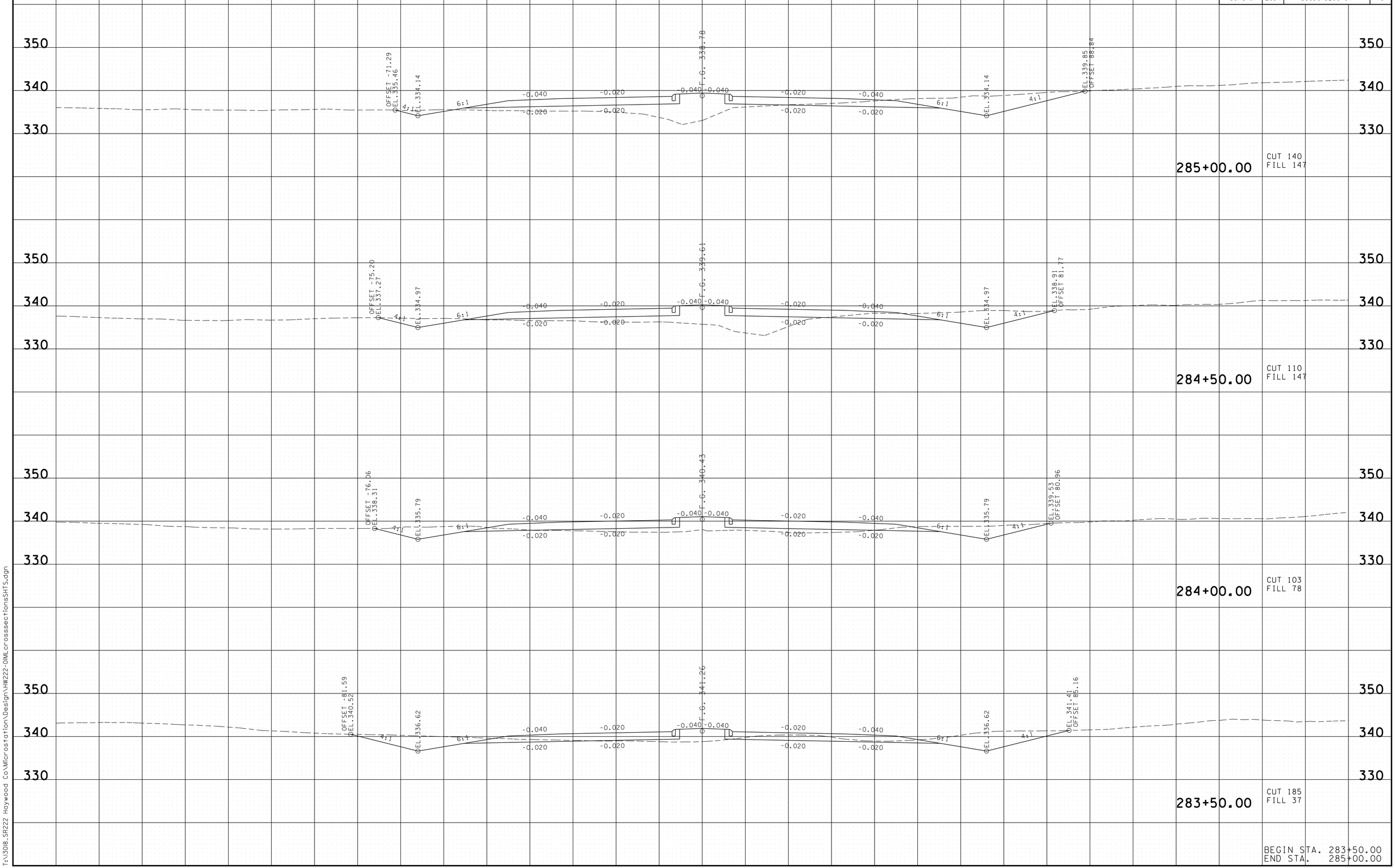
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	66
CONST.	2014	38016-3206-04	70



3/13/2014 7:23:58 AM
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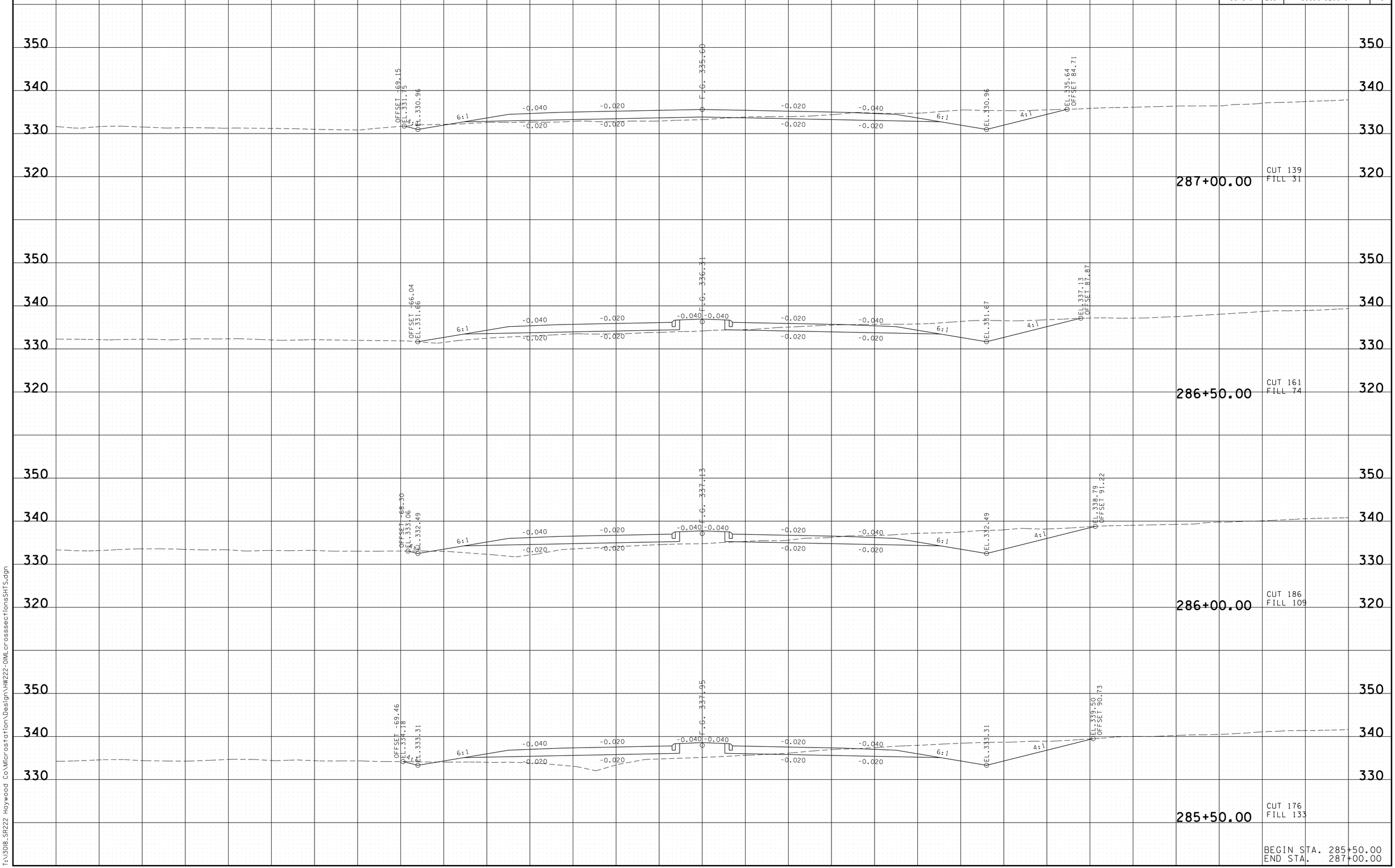
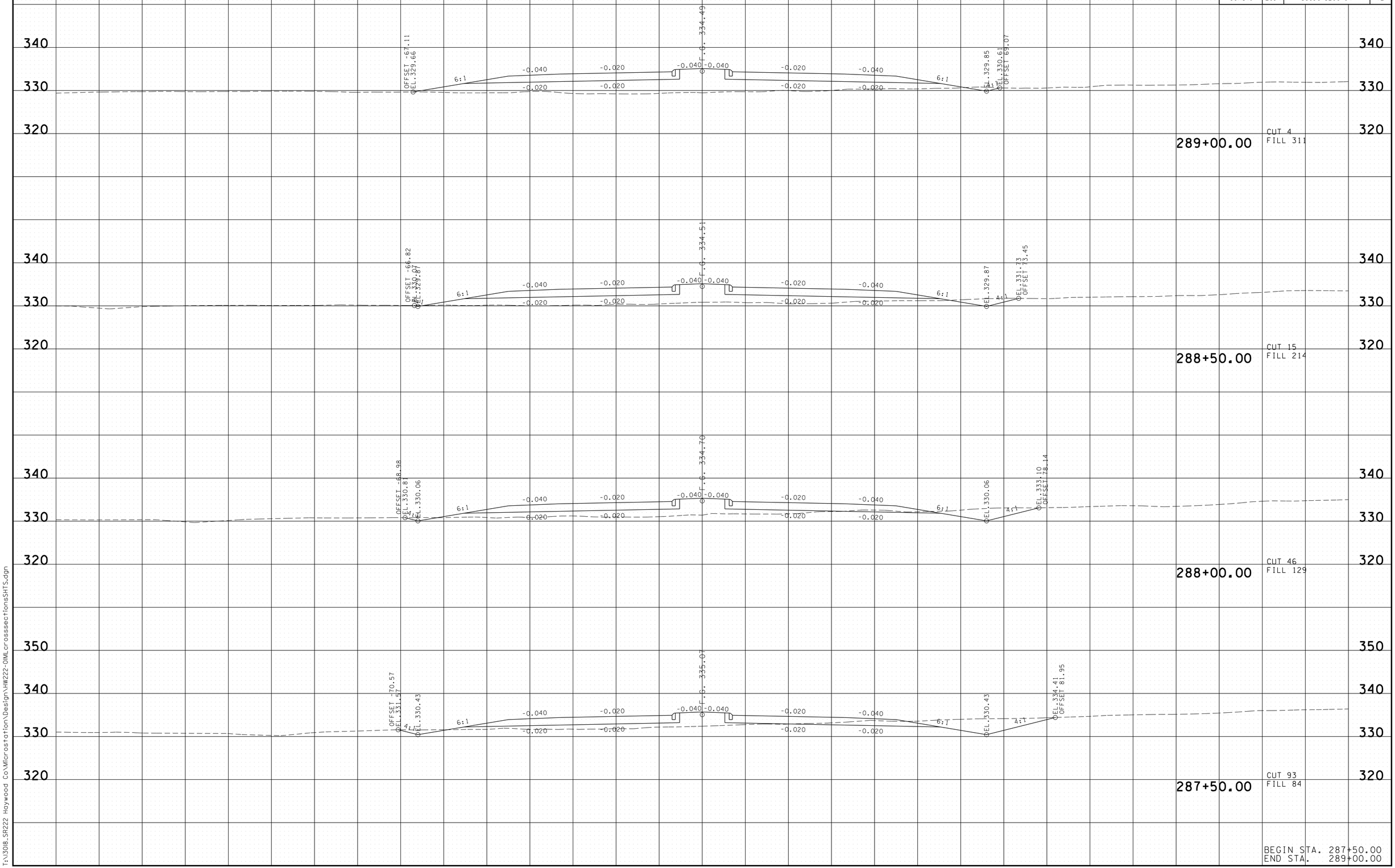
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	67
CONST.	2014	38016-3206-04	71



3/13/2014 7:24:03 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	68
CONST.	2014	38016-3206-04	72



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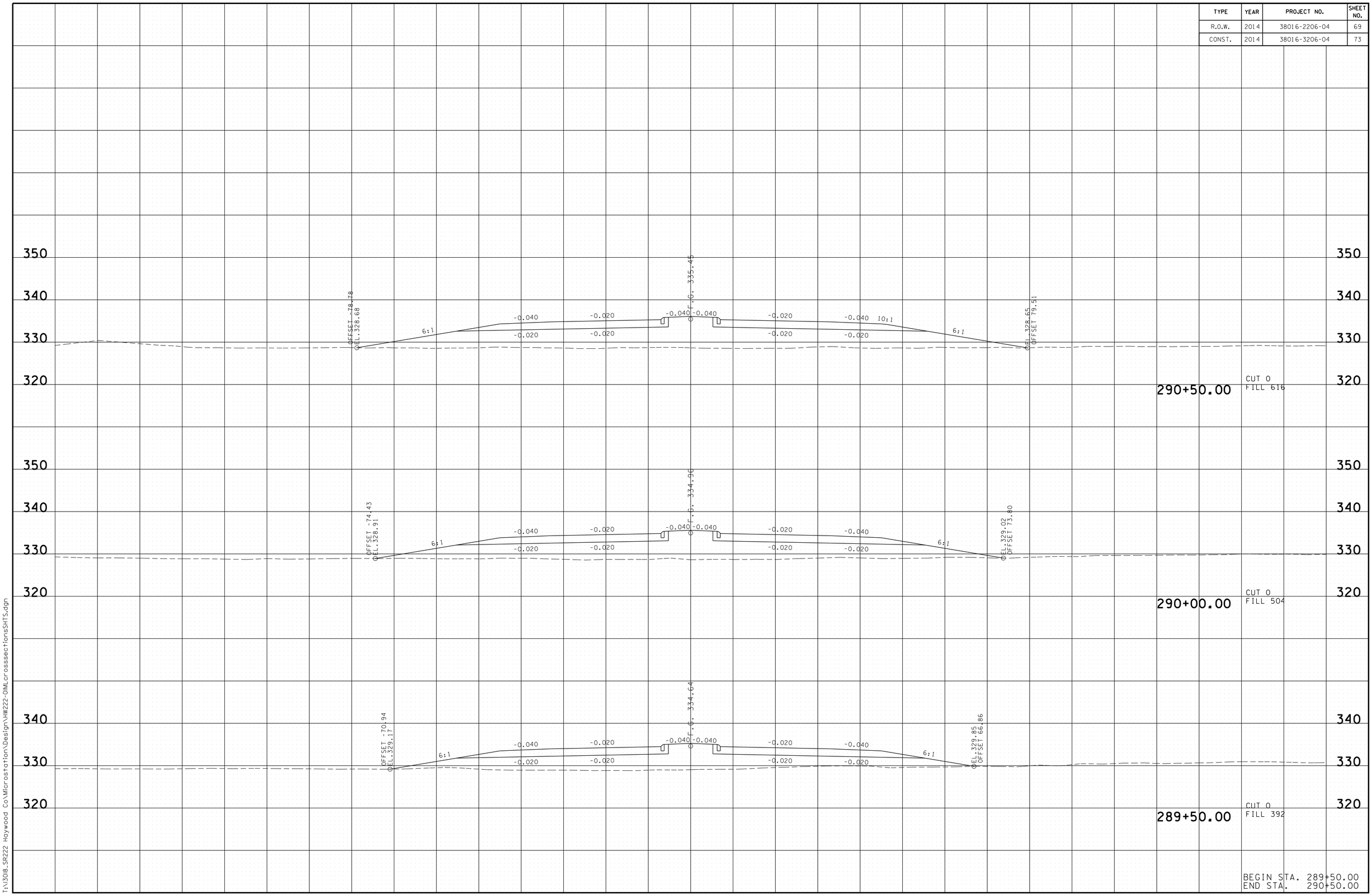
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	69
CONST.	2014	38016-3206-04	73



BEGIN STA. 289+50.00
END STA. 290+50.00

3/13/2014 7:24:13 AM
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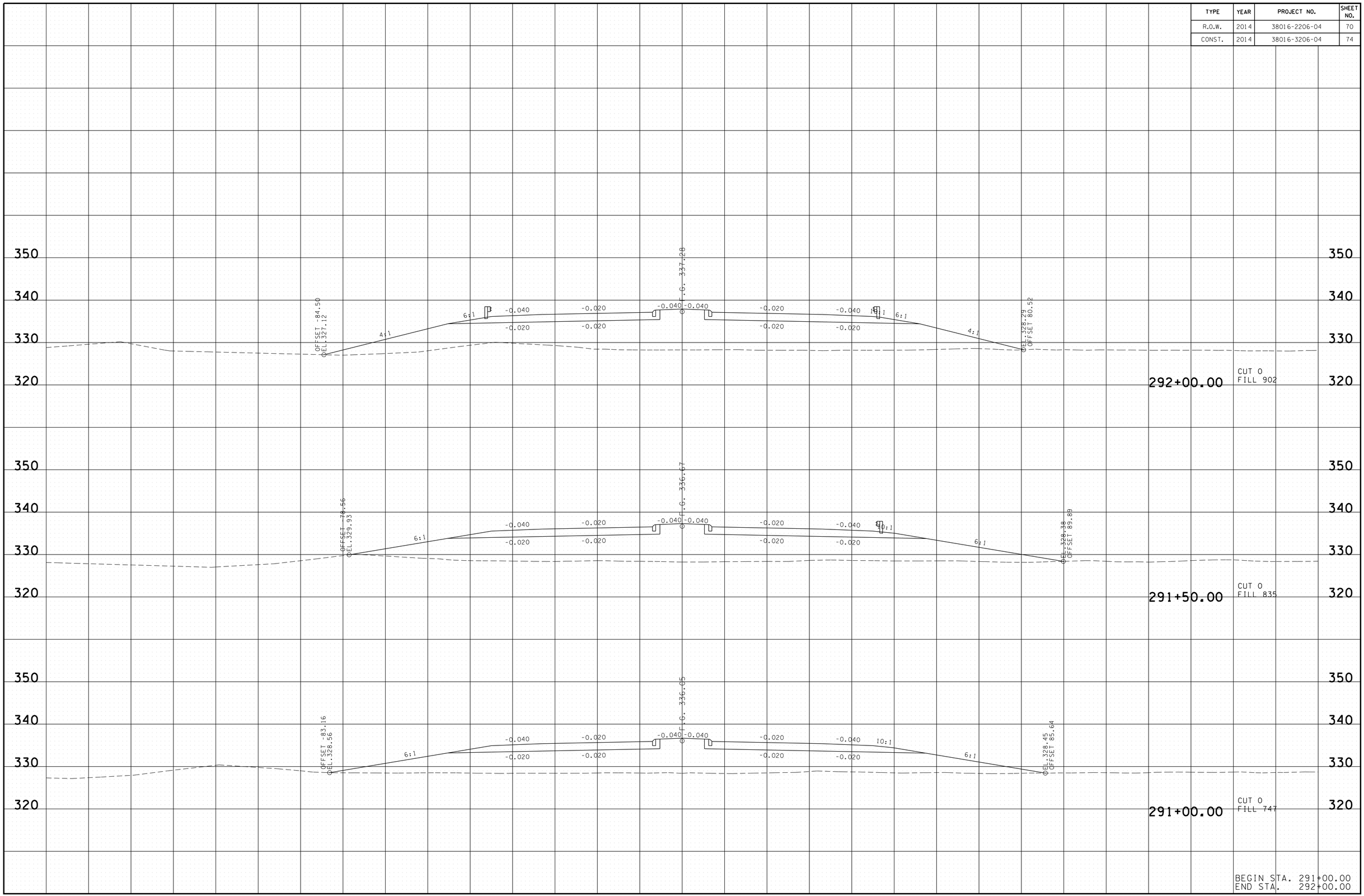
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	70
CONST.	2014	38016-3206-04	74



3/13/2014 7:24:18 AM
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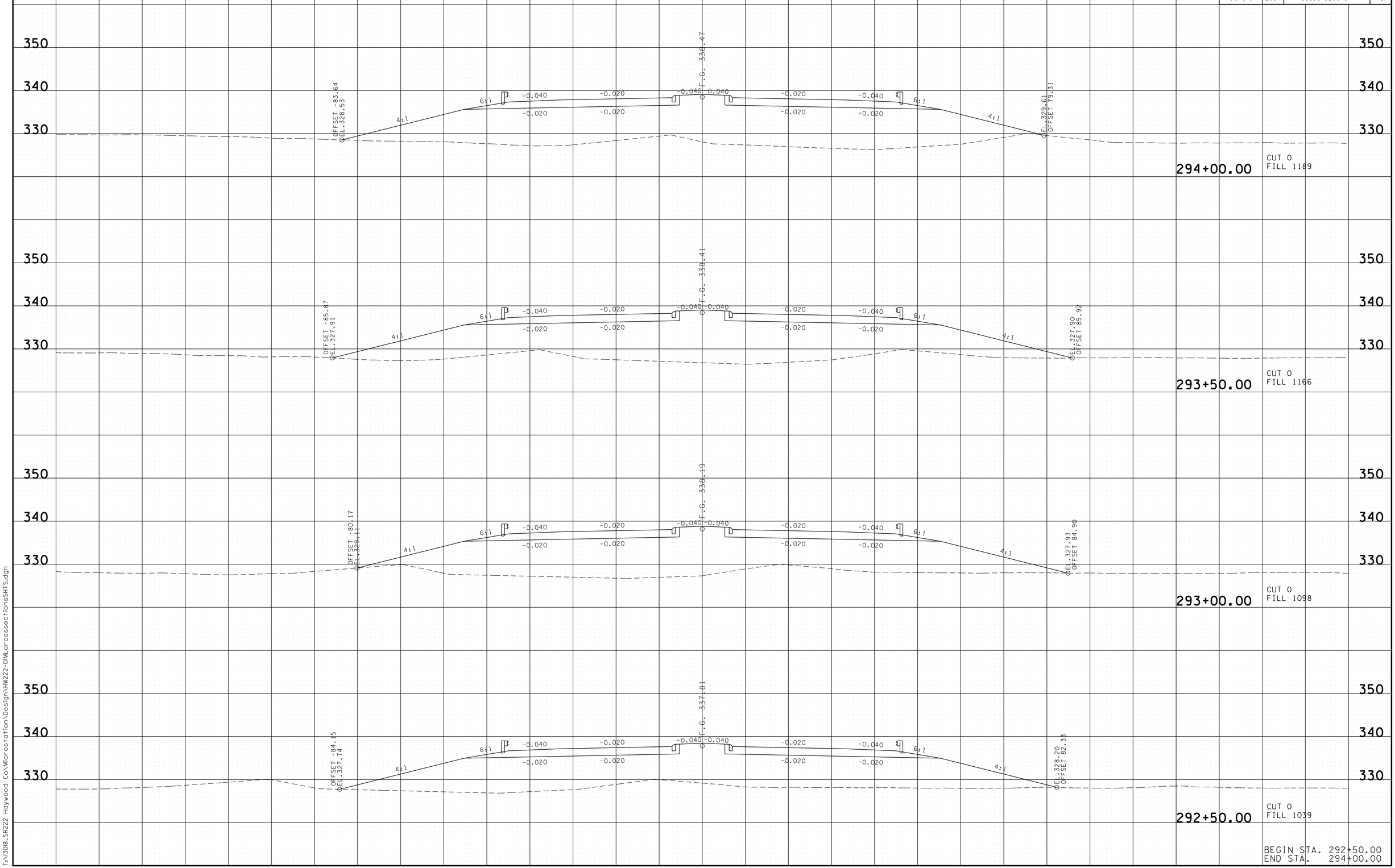
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	71
CONST.	2014	38016-3206-04	75



BEGIN STA. 292+50.00
END STA. 294+00.00

3/13/2014 7:24:23 AM
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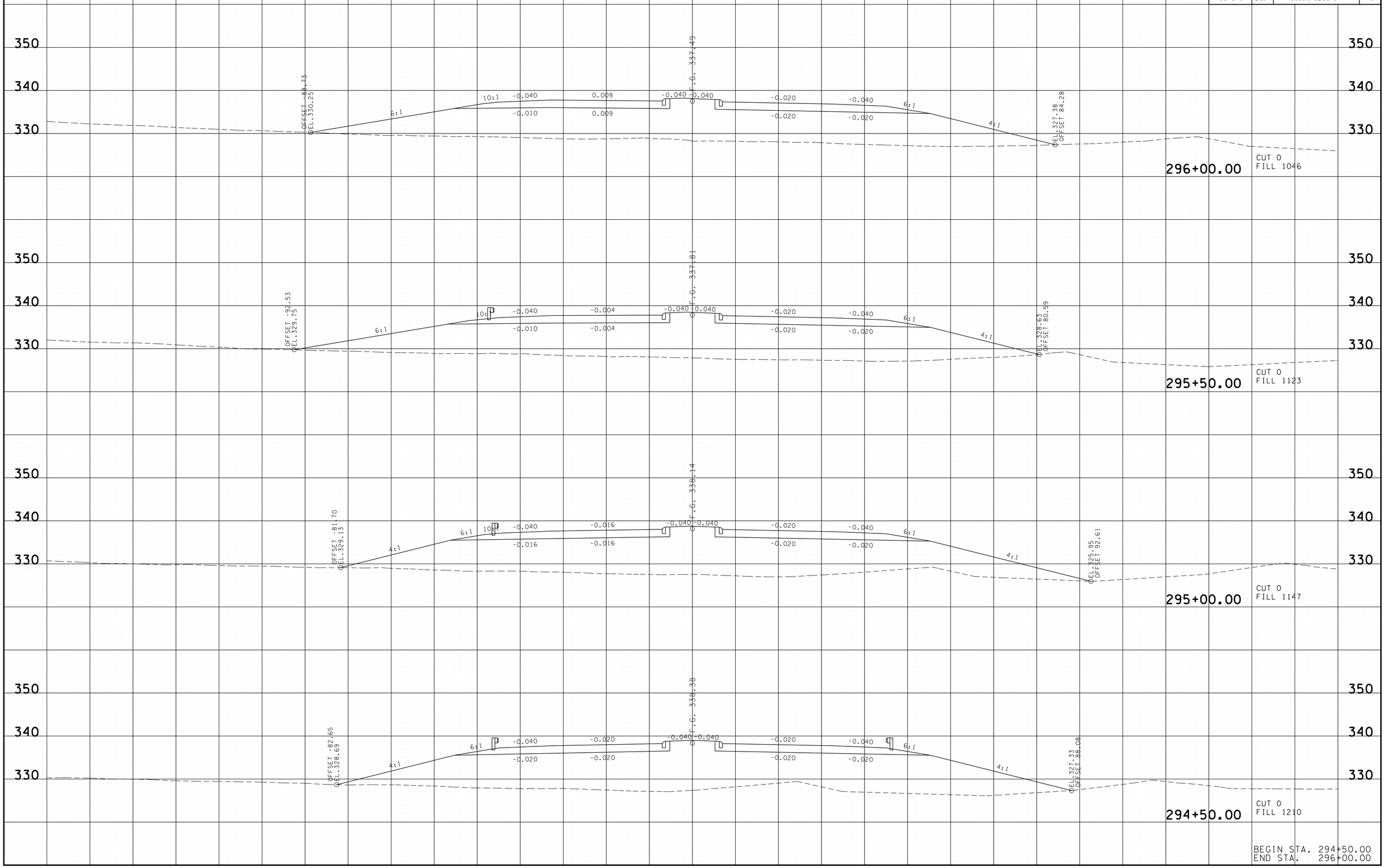
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	72
CONST.	2014	38016-3206-04	76



3/13/2014 7:24:28 AM
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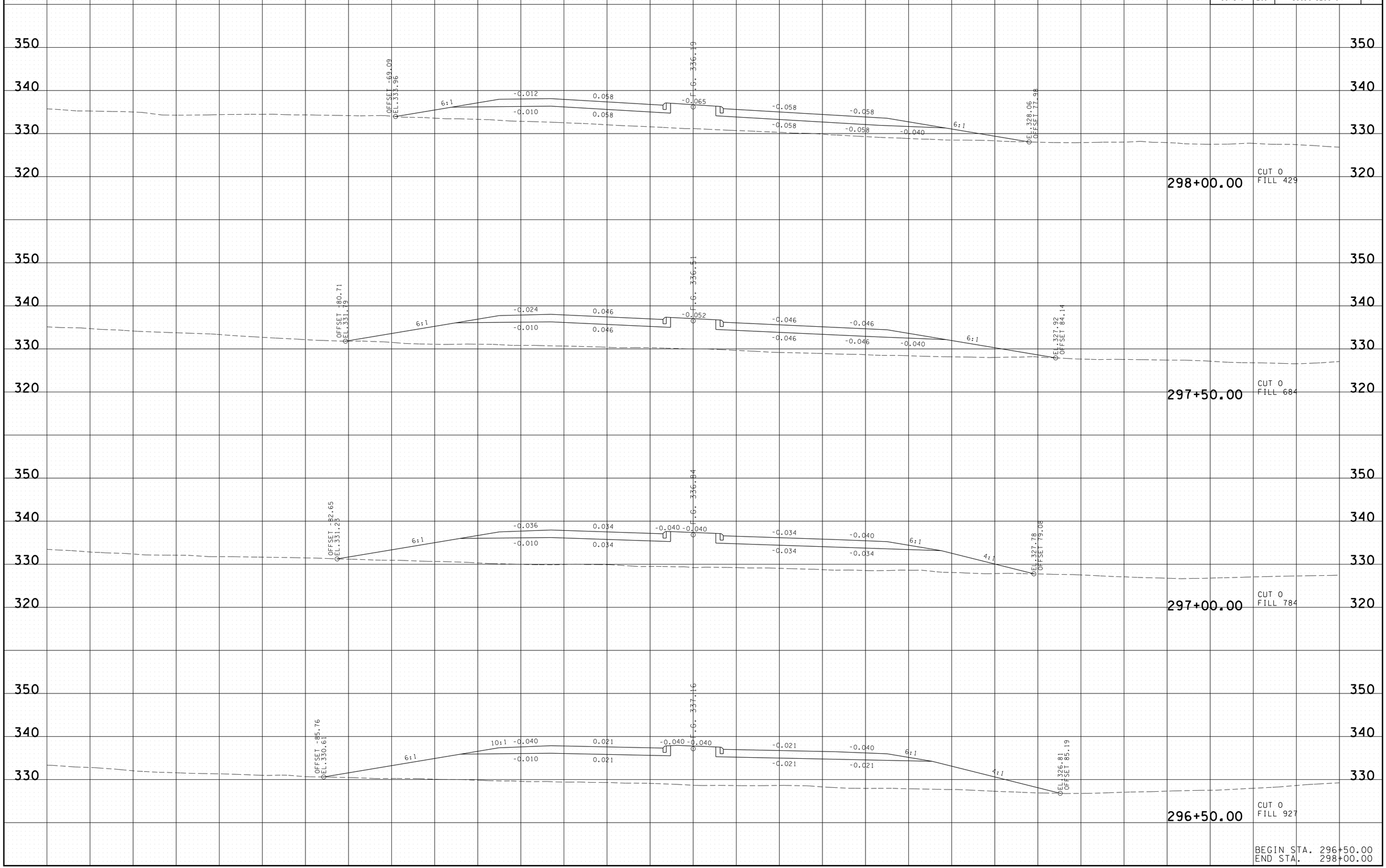
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	73
CONST.	2014	38016-3206-04	77



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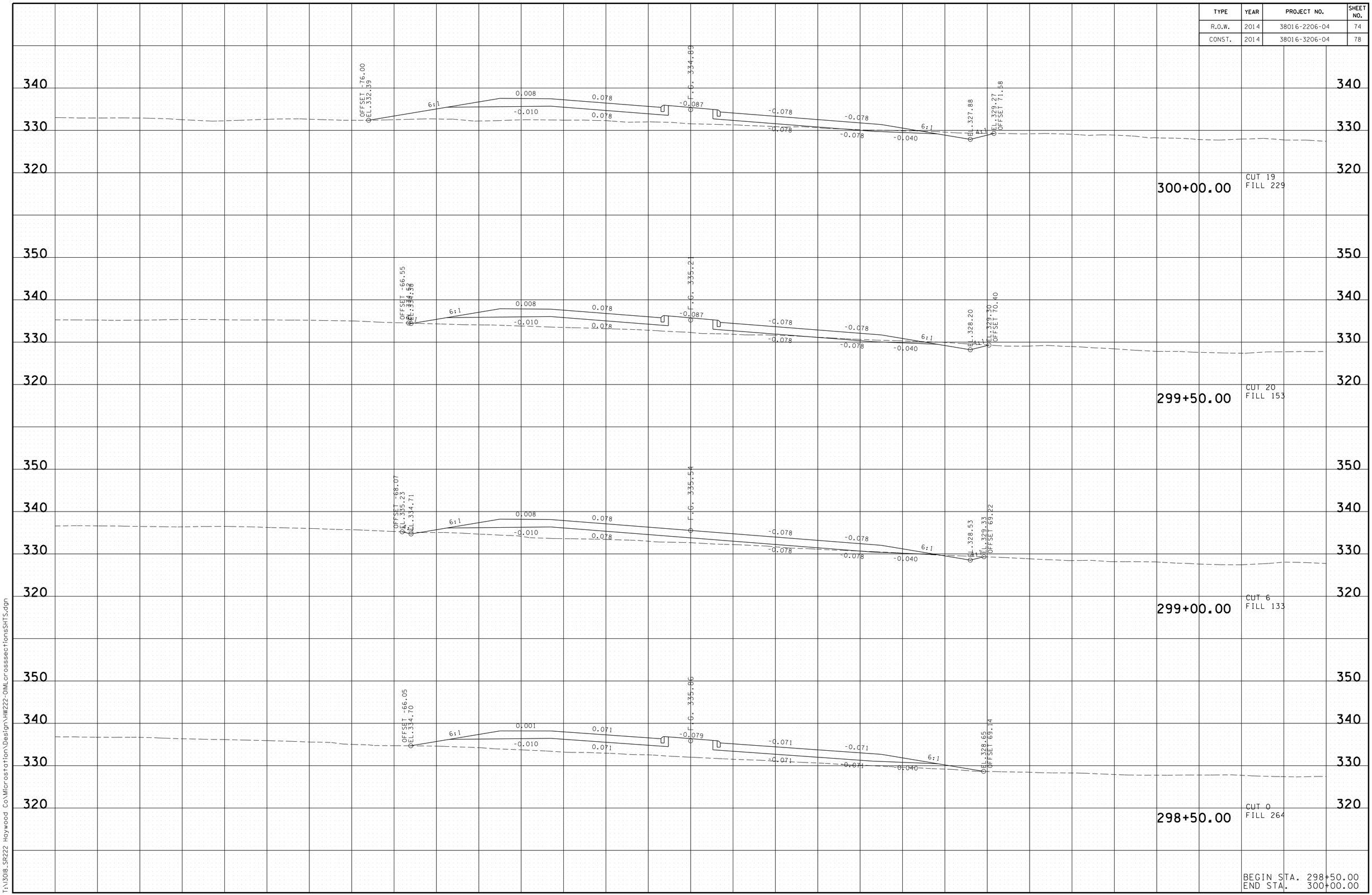
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	74
CONST.	2014	38016-3206-04	78



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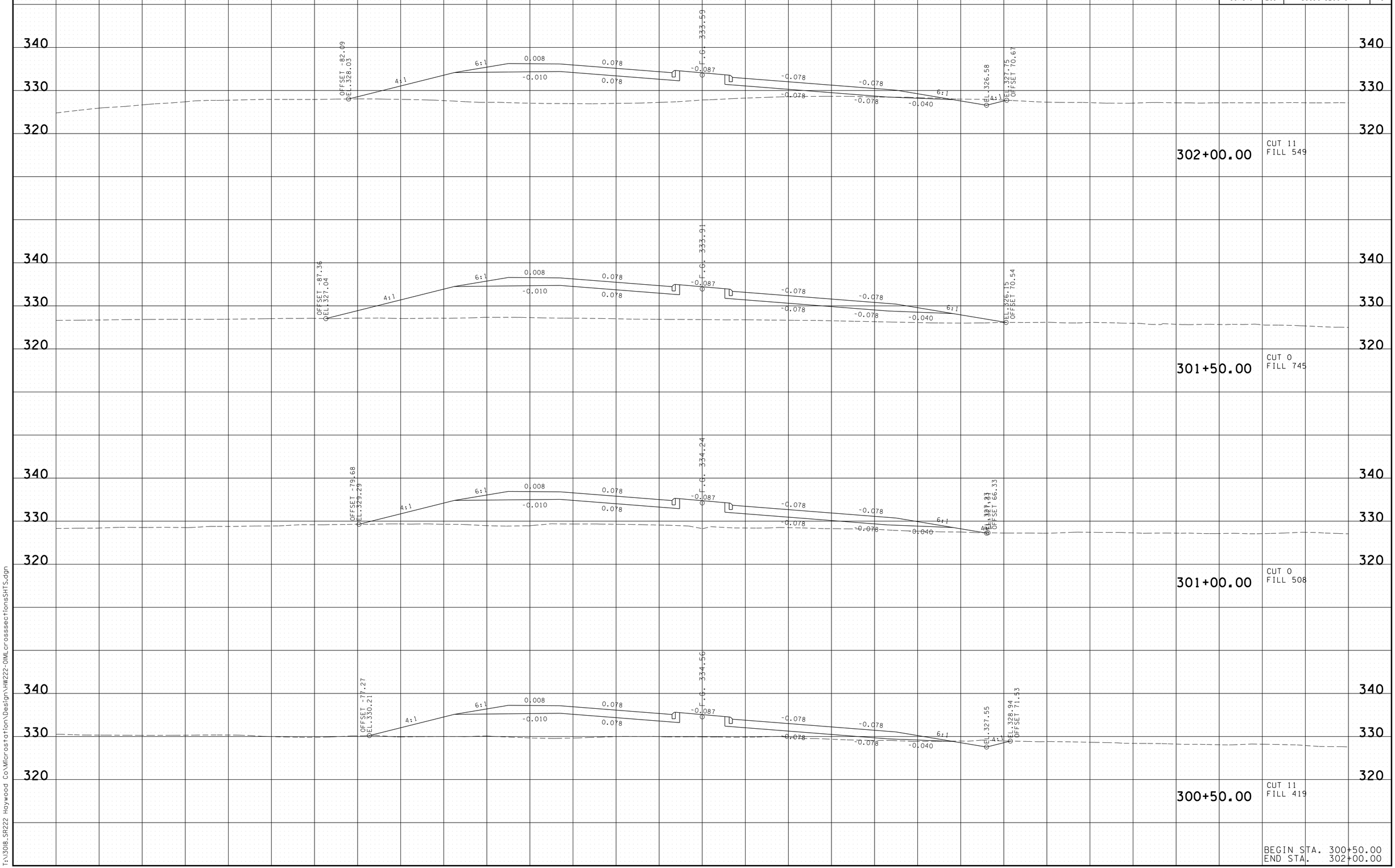
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	75
CONST.	2014	38016-3206-04	79



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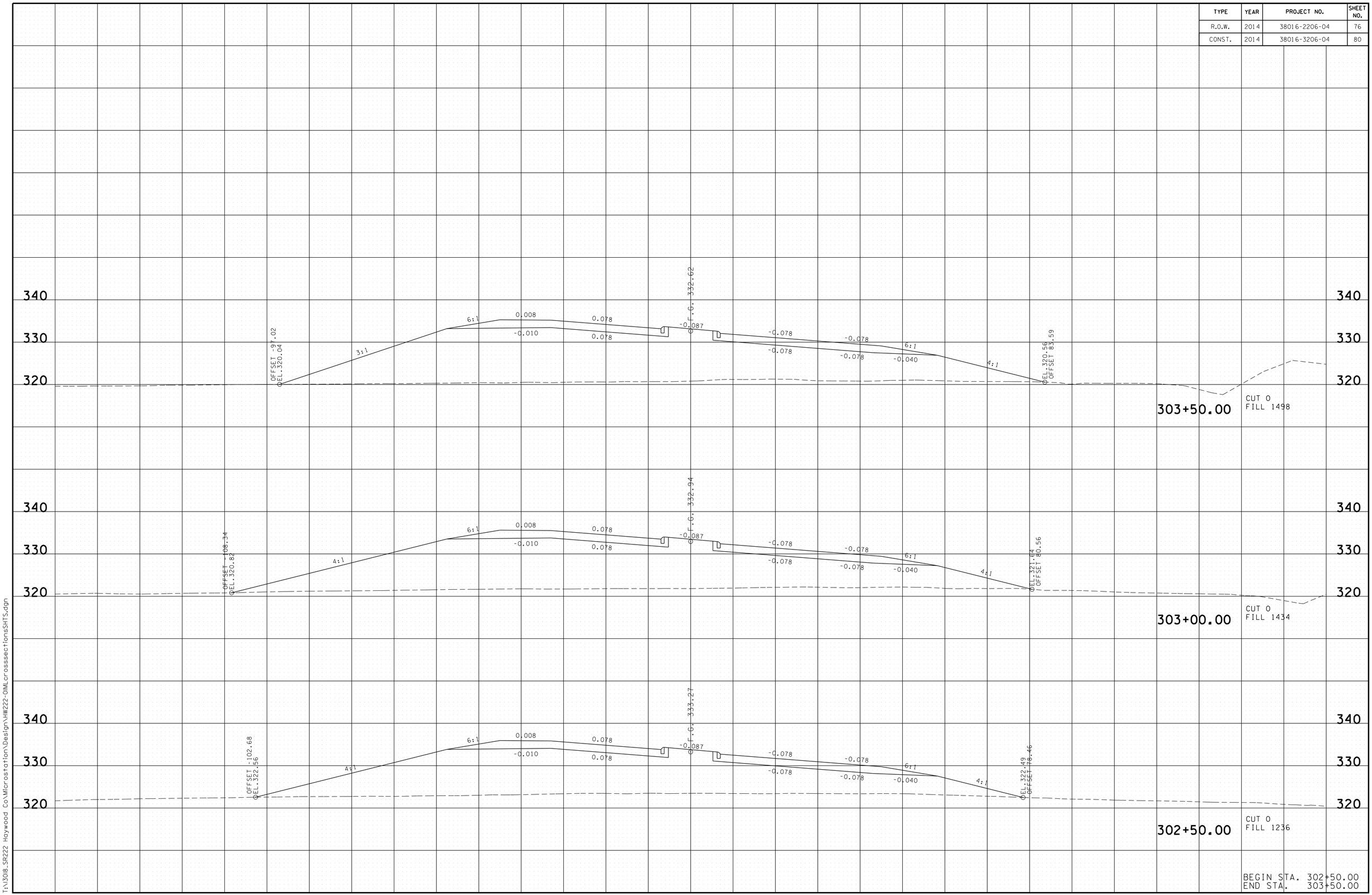
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	76
CONST.	2014	38016-3206-04	80



BEGIN STA. 302+50.00
END STA. 303+50.00

3/13/2014 7:24:47 AM
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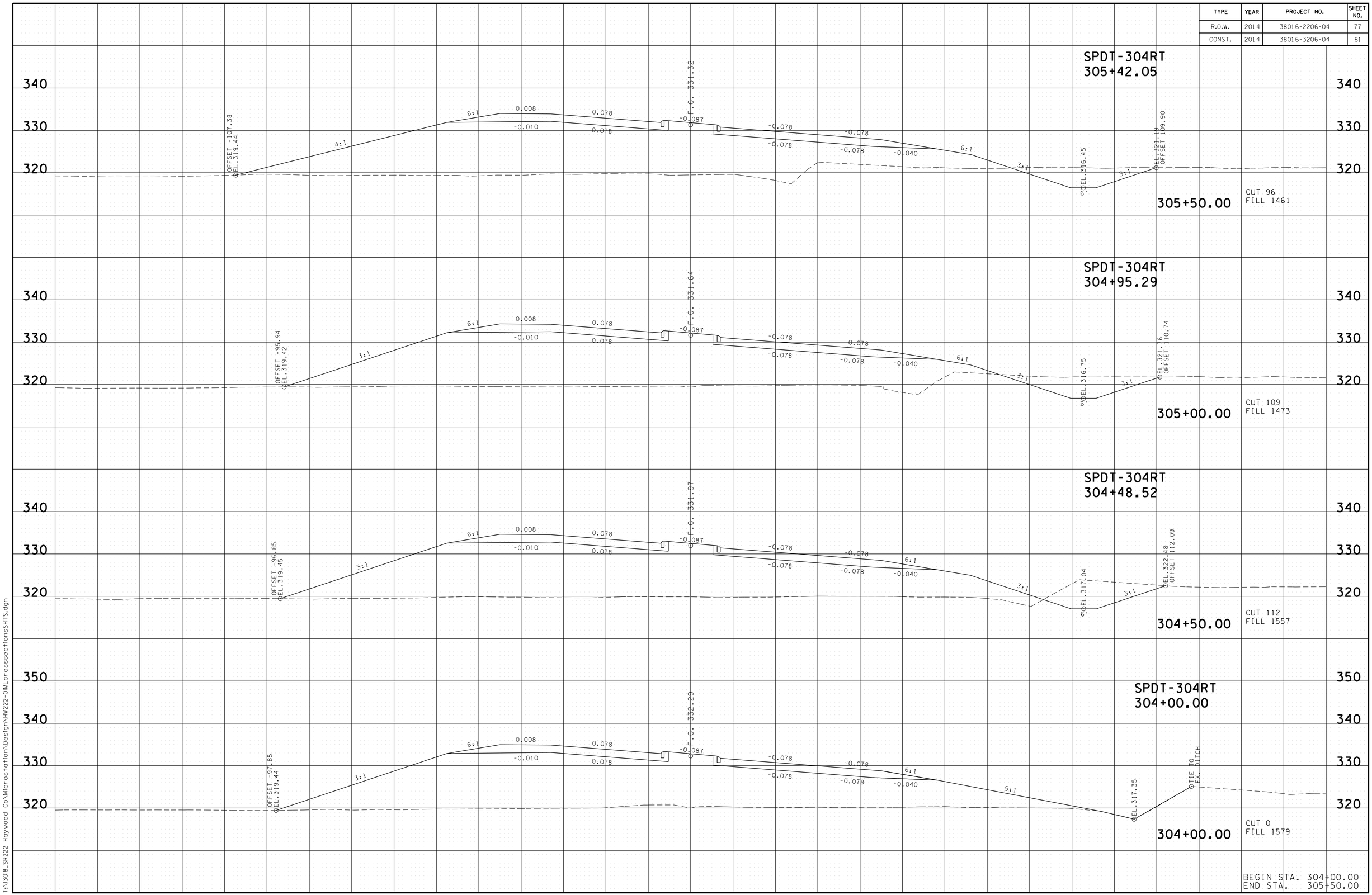
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	77
CONST.	2014	38016-3206-04	81



3/13/2014 7:24:52 AM
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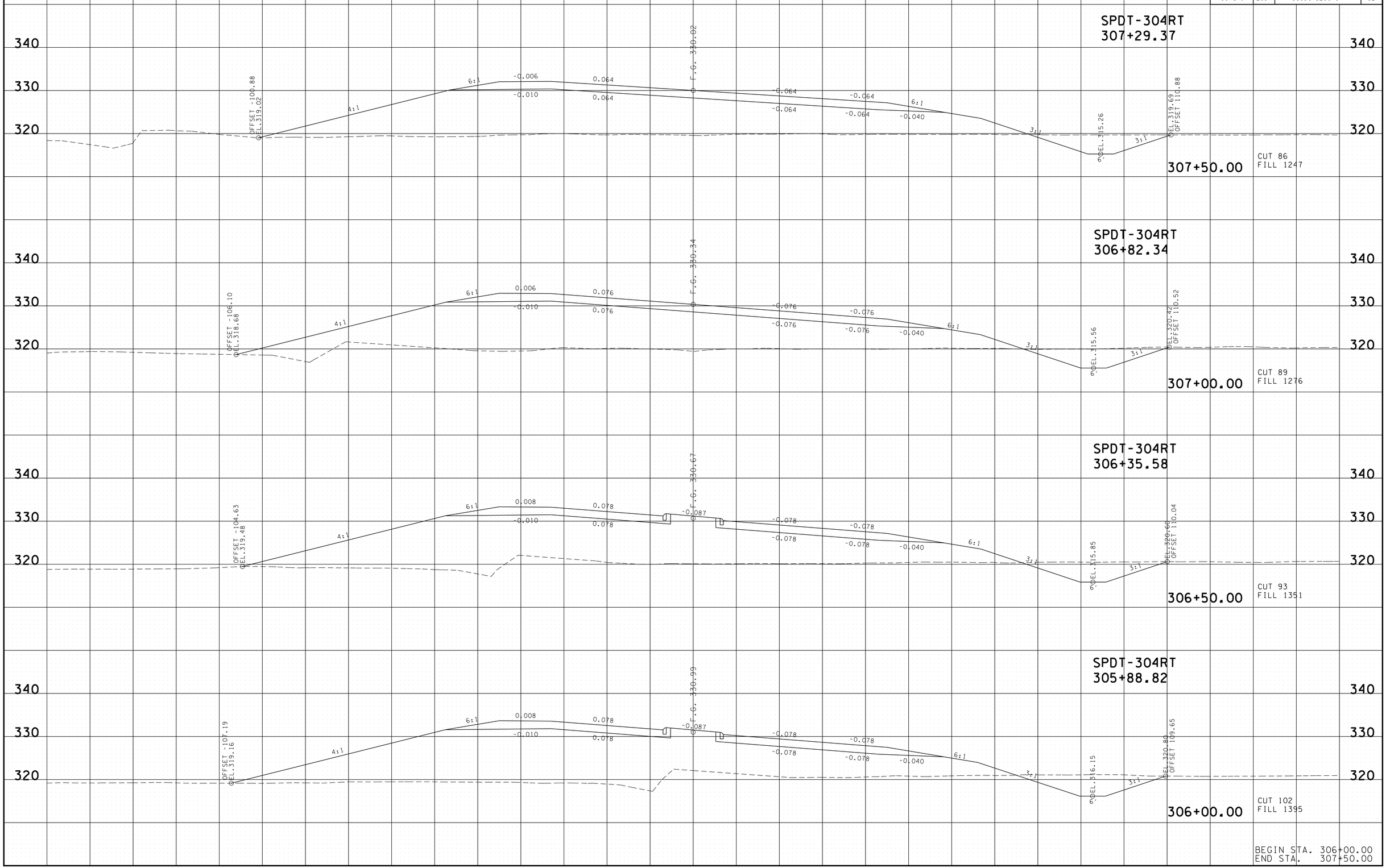
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	78
CONST.	2014	38016-3206-04	82



BEGIN STA. 306+00.00
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3/13/2014 7:24:57 AM
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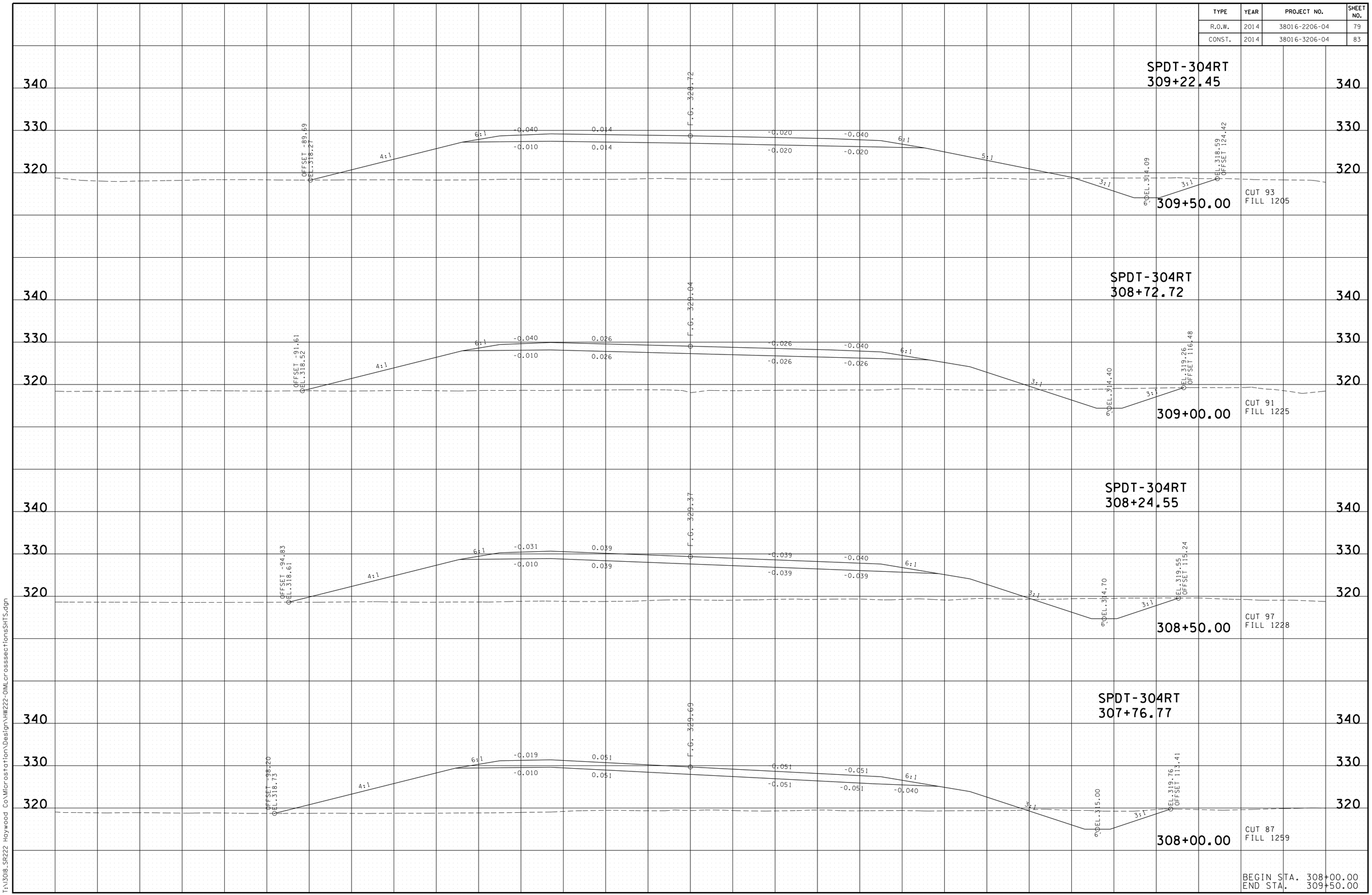
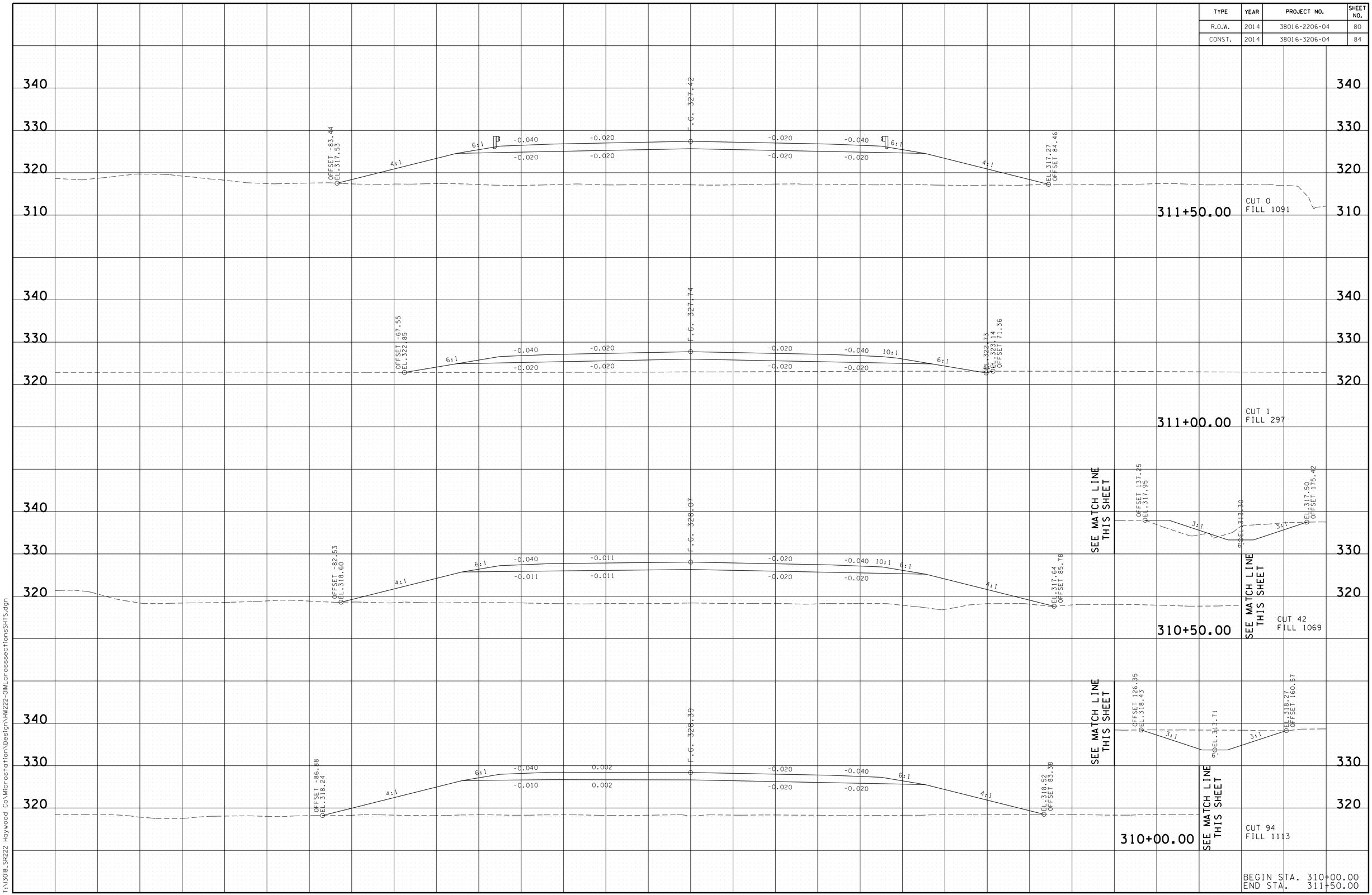
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	79
CONST.	2014	38016-3206-04	83



3/13/2014 7:25:02 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	80
CONST.	2014	38016-3206-04	84



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3/13/2014 7:25:07 AM
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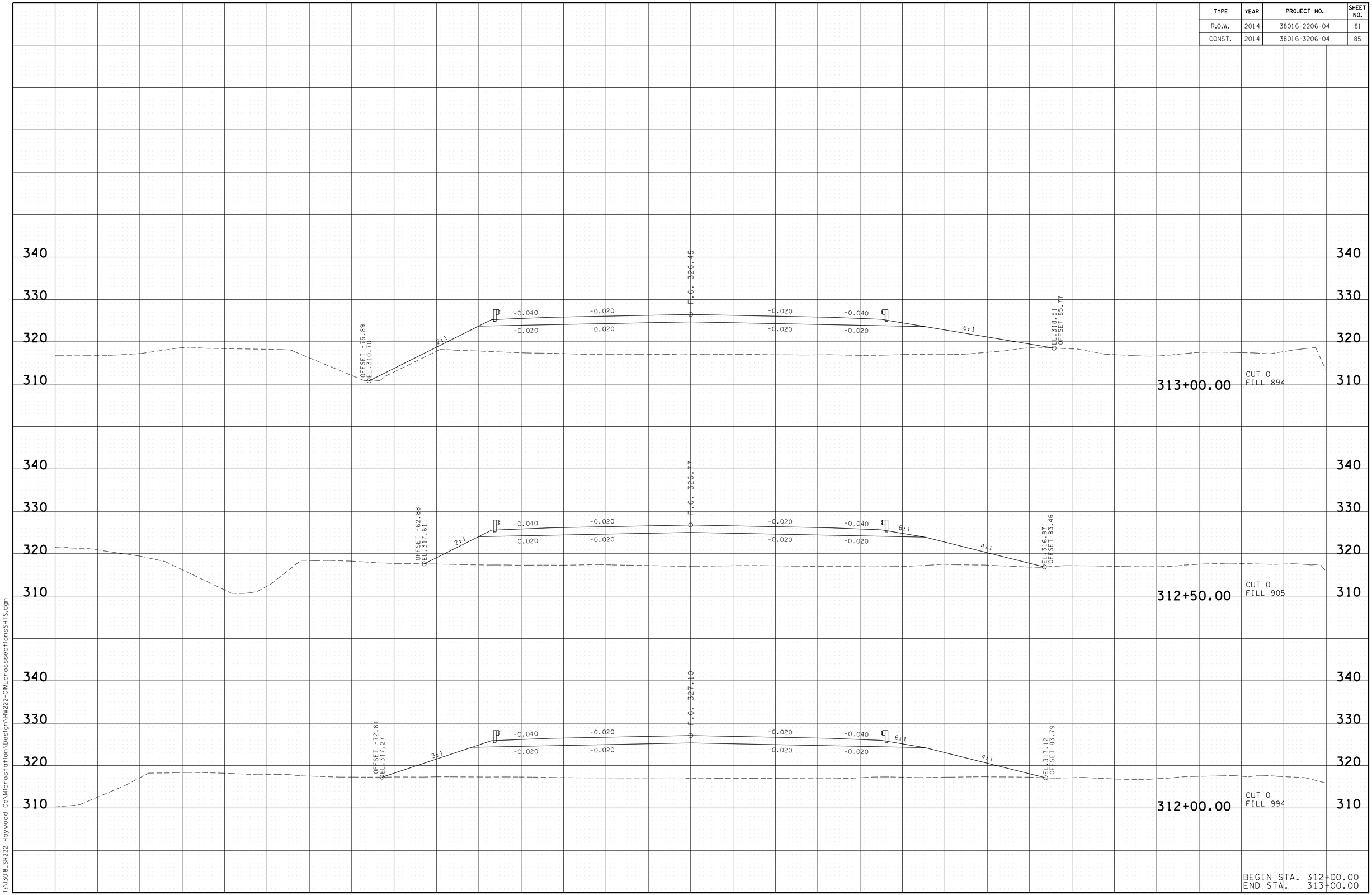
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	81
CONST.	2014	38016-3206-04	85



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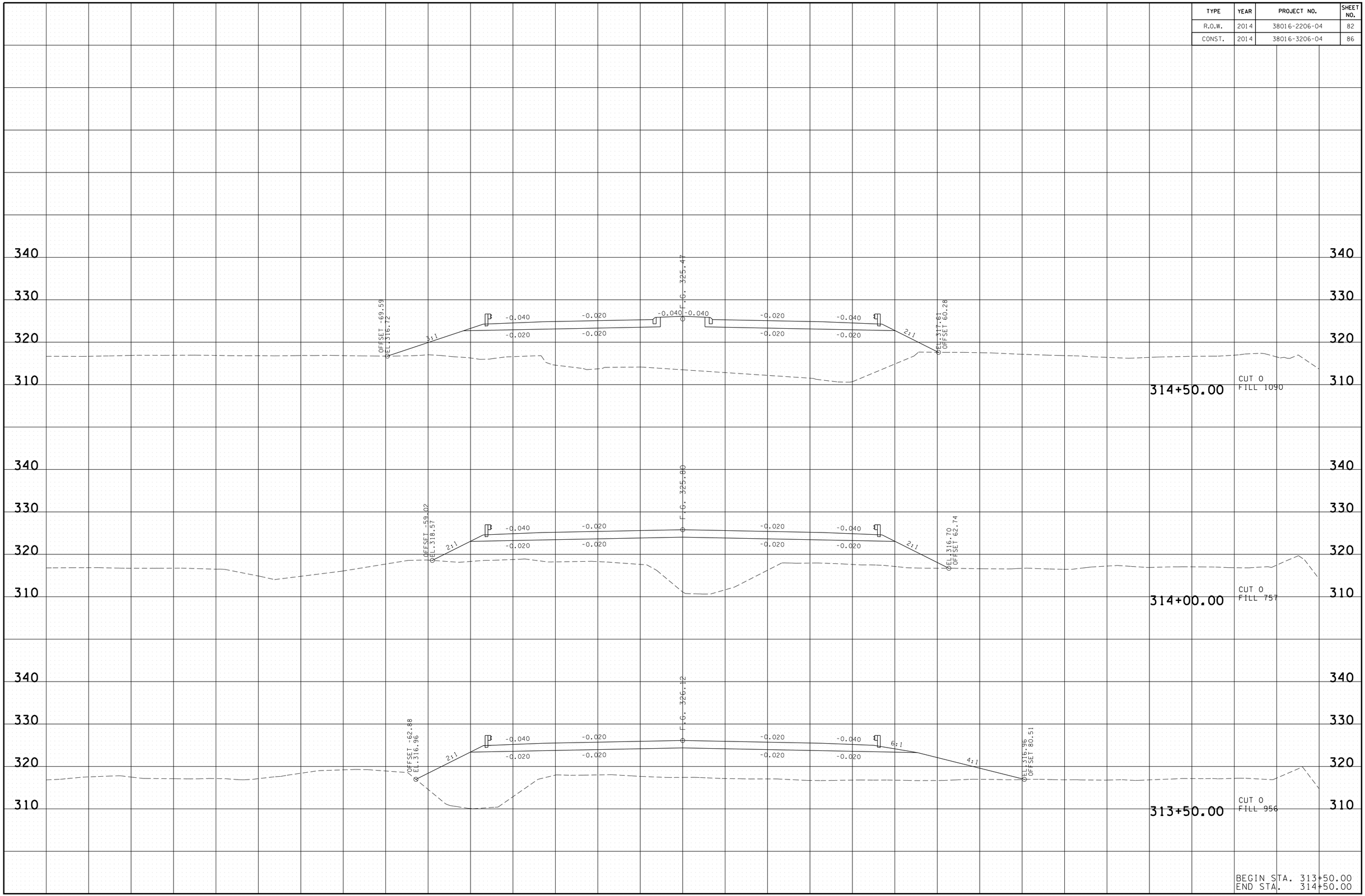
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrosssectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	82
CONST.	2014	38016-3206-04	86



3/13/2014 7:25:17 AM
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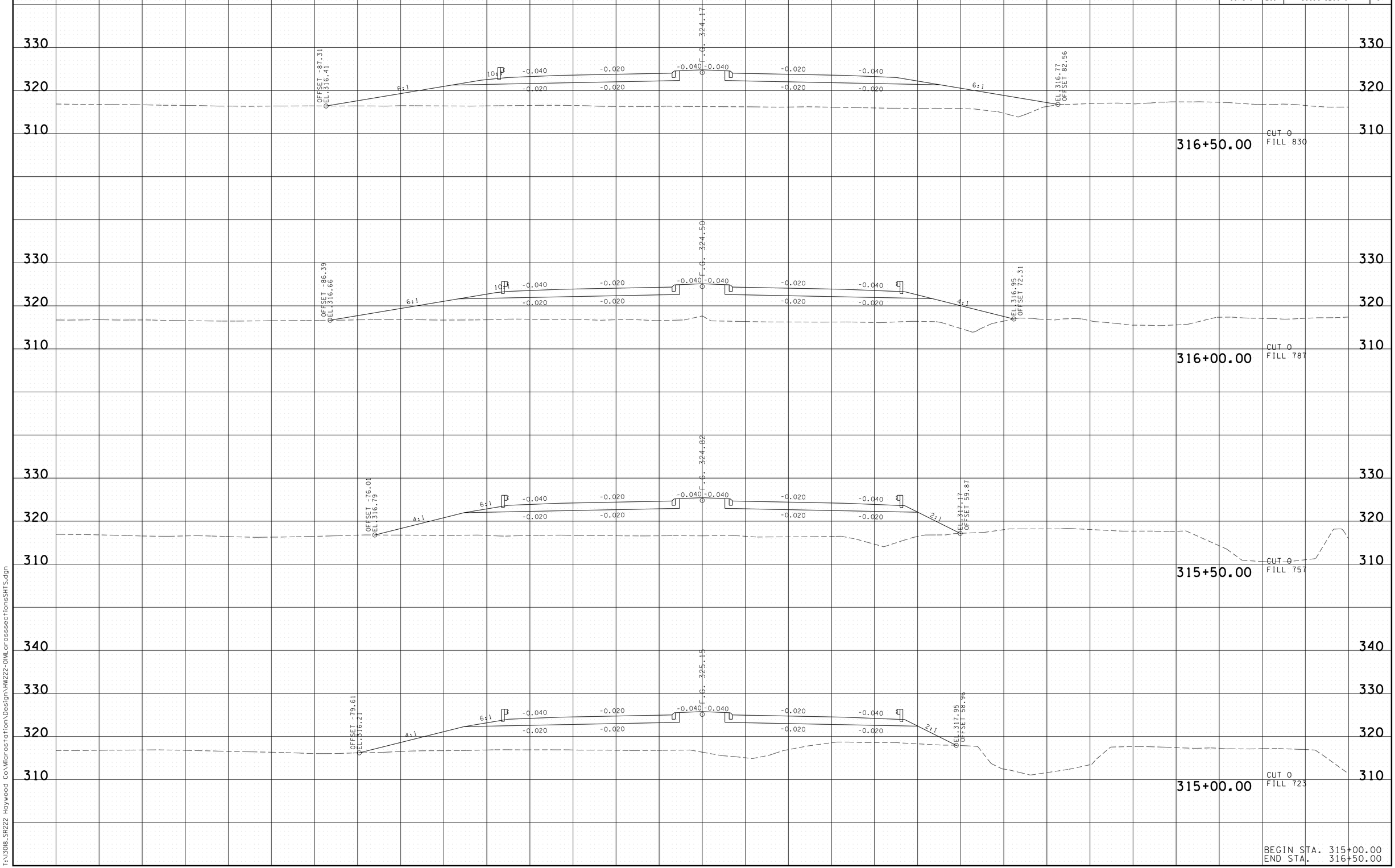
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	83
CONST.	2014	38016-3206-04	87



3/13/2014 7:25:22 AM
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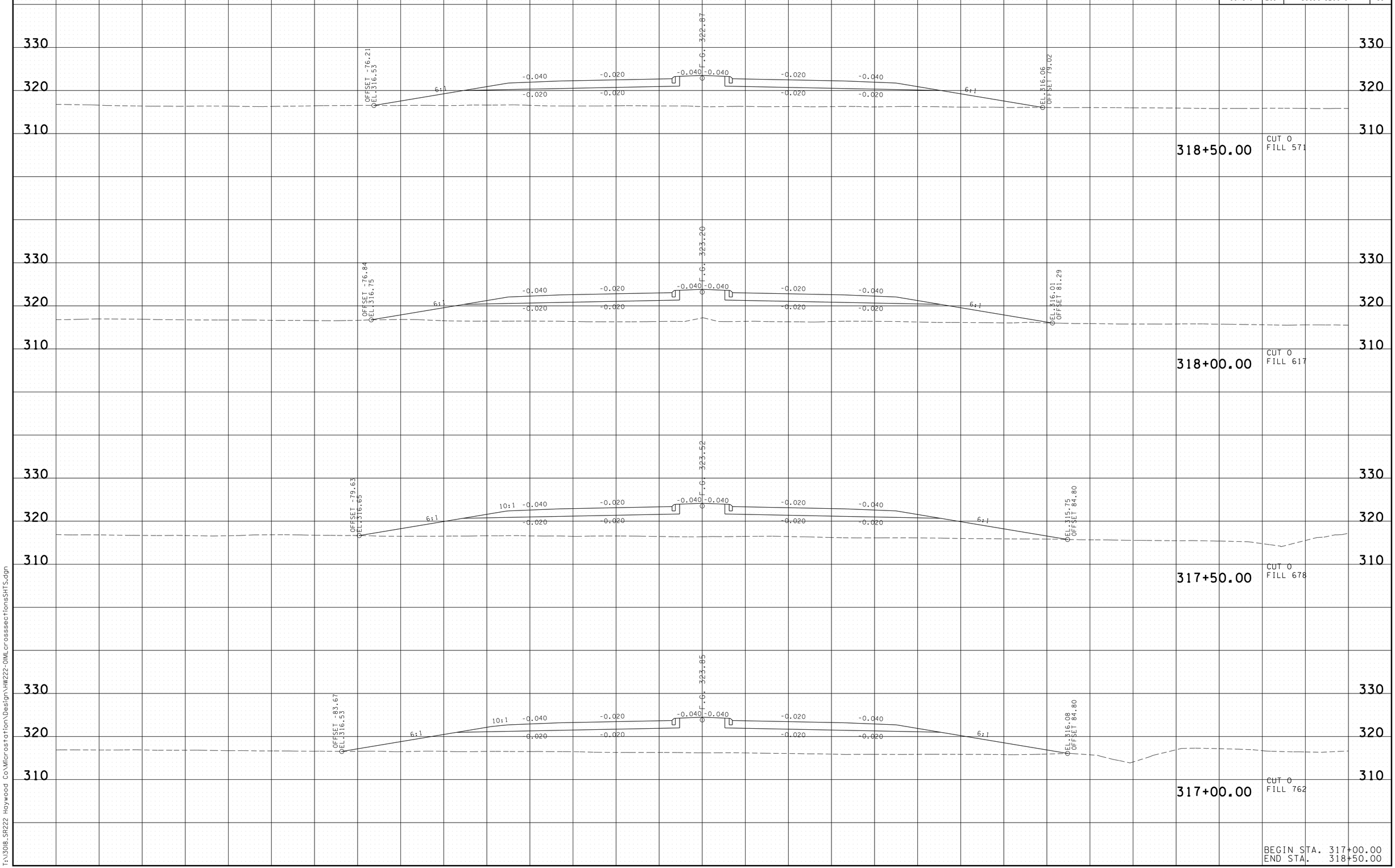
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	84
CONST.	2014	38016-3206-04	88



BEGIN STA. 317+00.00
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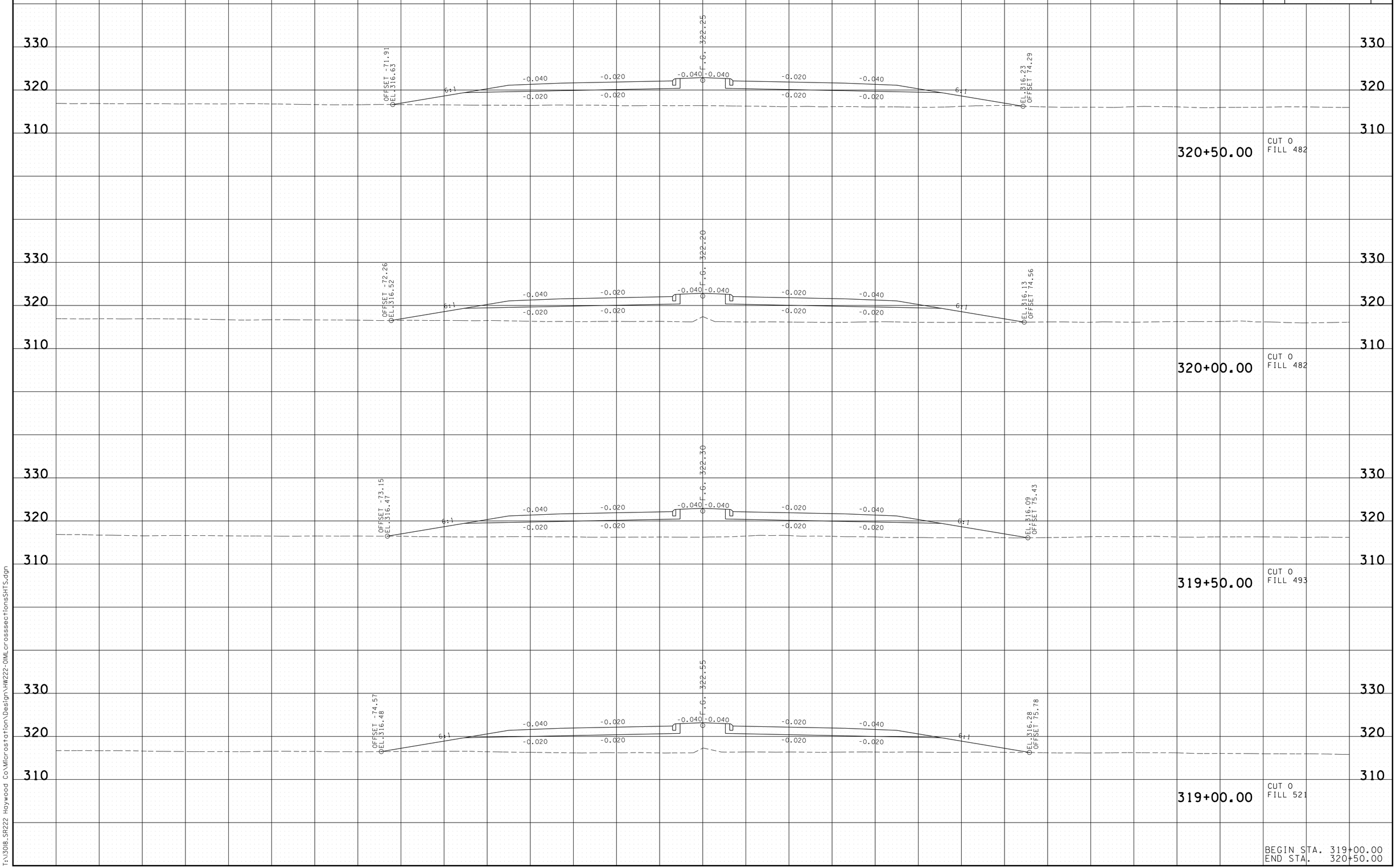
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	85
CONST.	2014	38016-3206-04	89



BEGIN STA. 319+00.00
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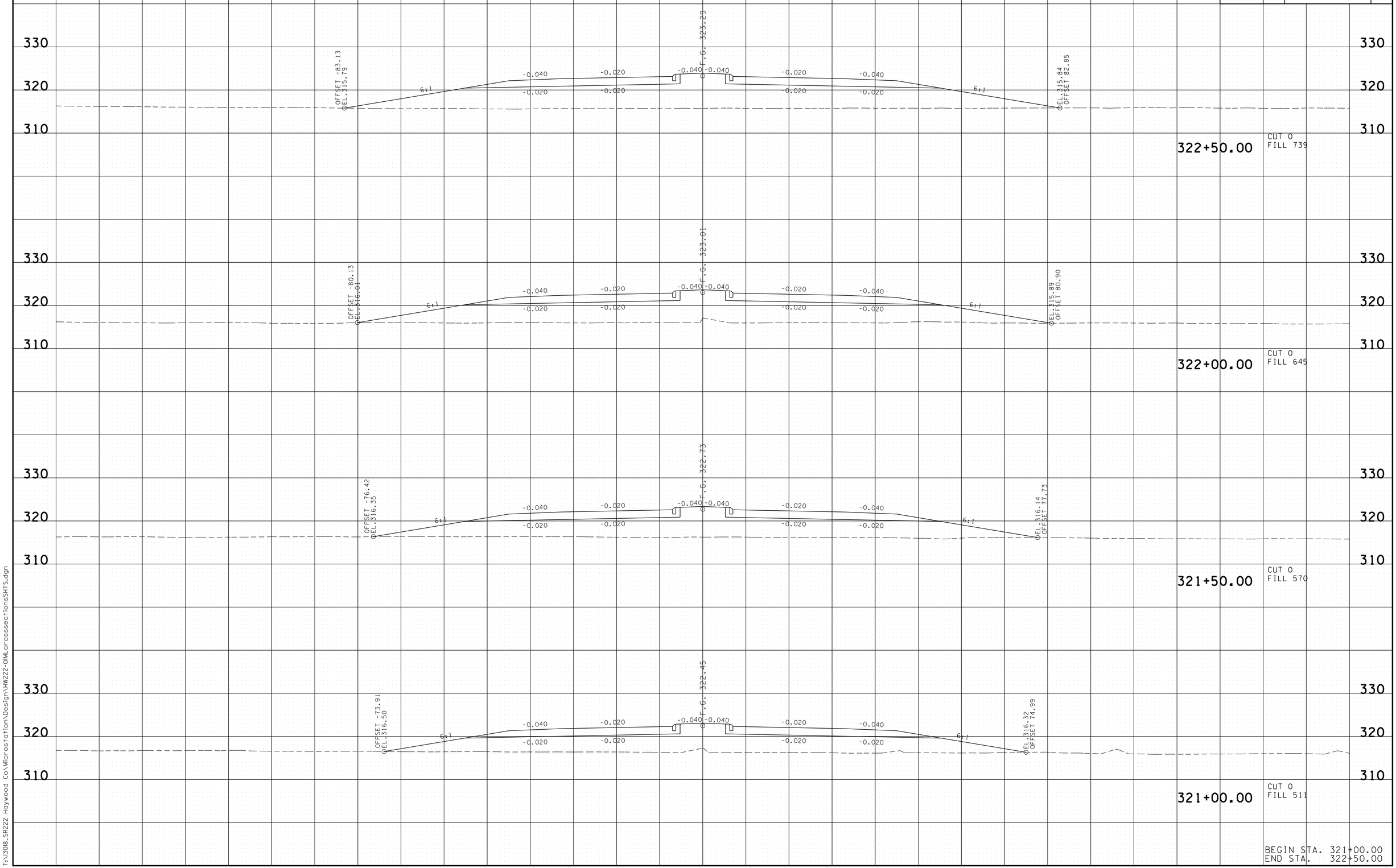
3/13/2014 7:25:32 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	86
CONST.	2014	38016-3206-04	90



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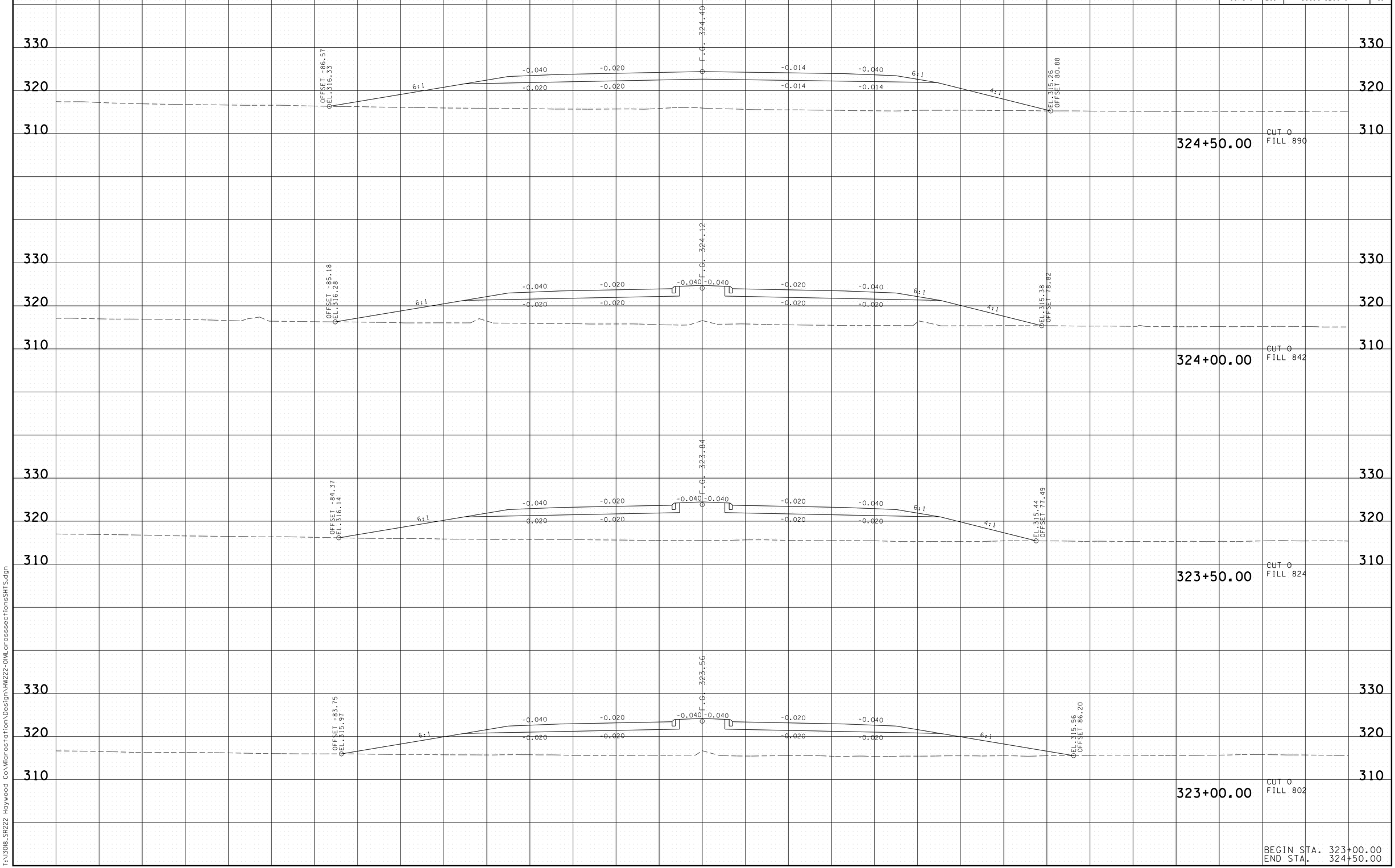
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	87
CONST.	2014	38016-3206-04	91



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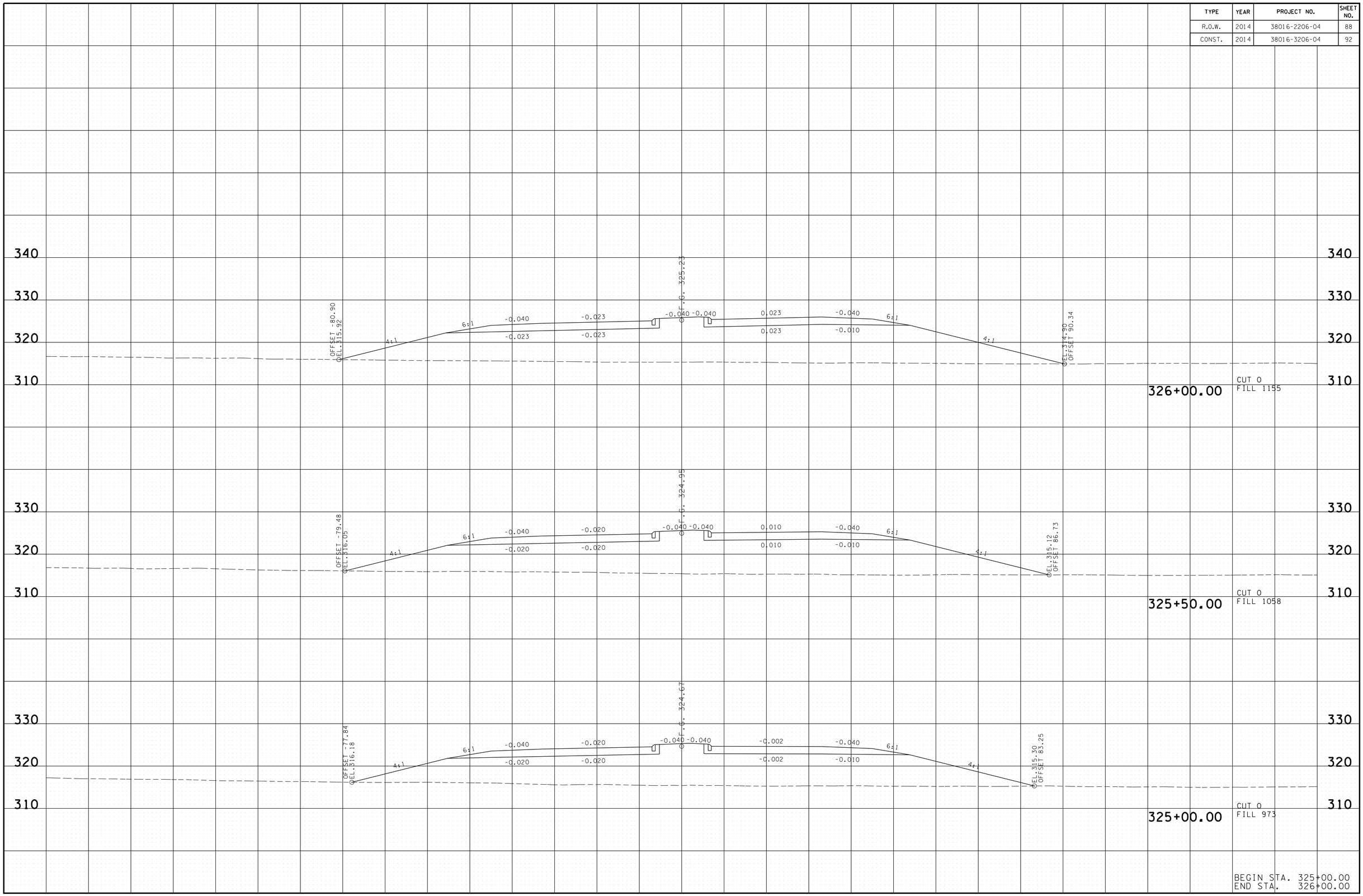
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	88
CONST.	2014	38016-3206-04	92



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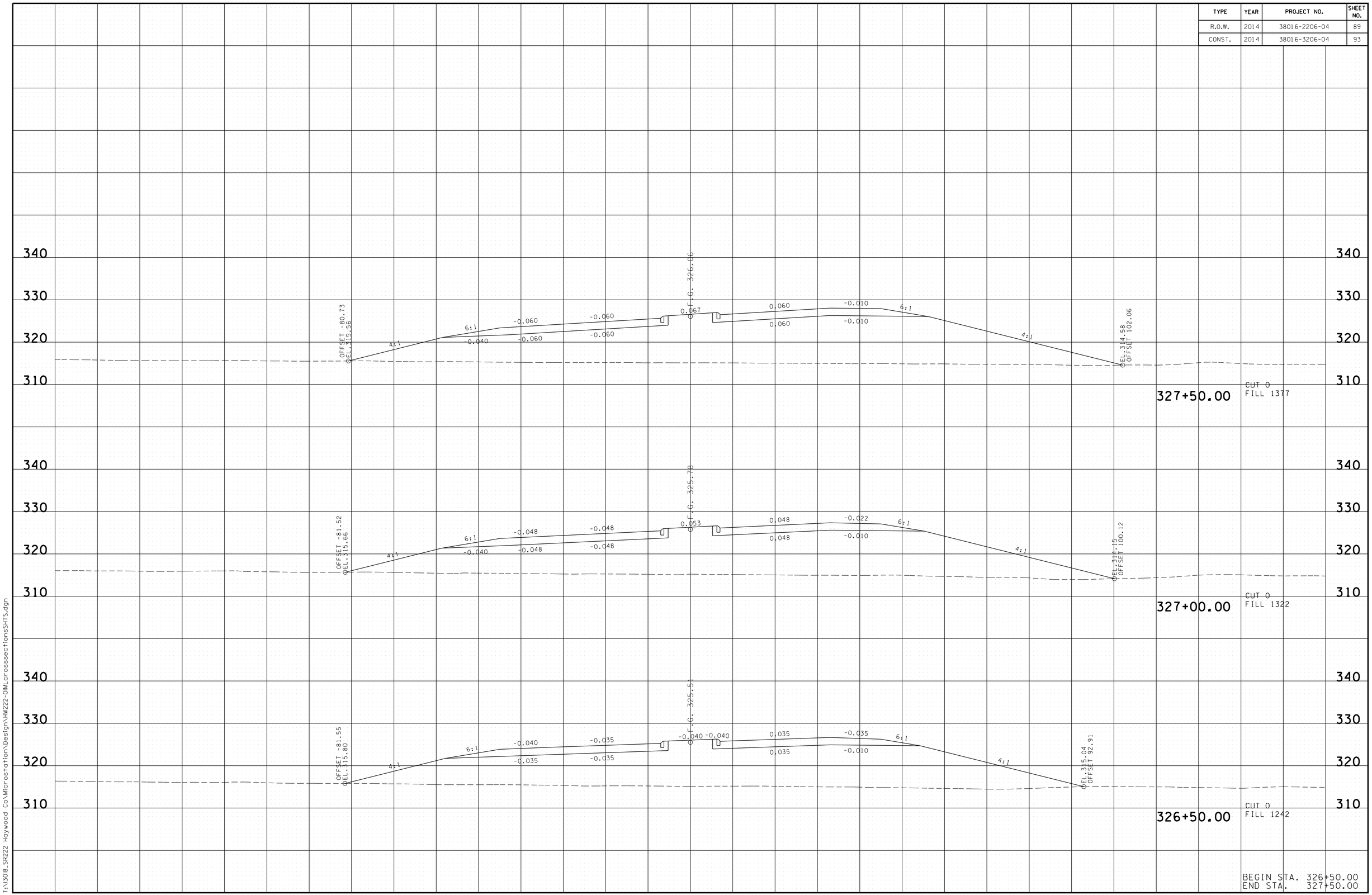
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-DIML crosssectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	89
CONST.	2014	38016-3206-04	93



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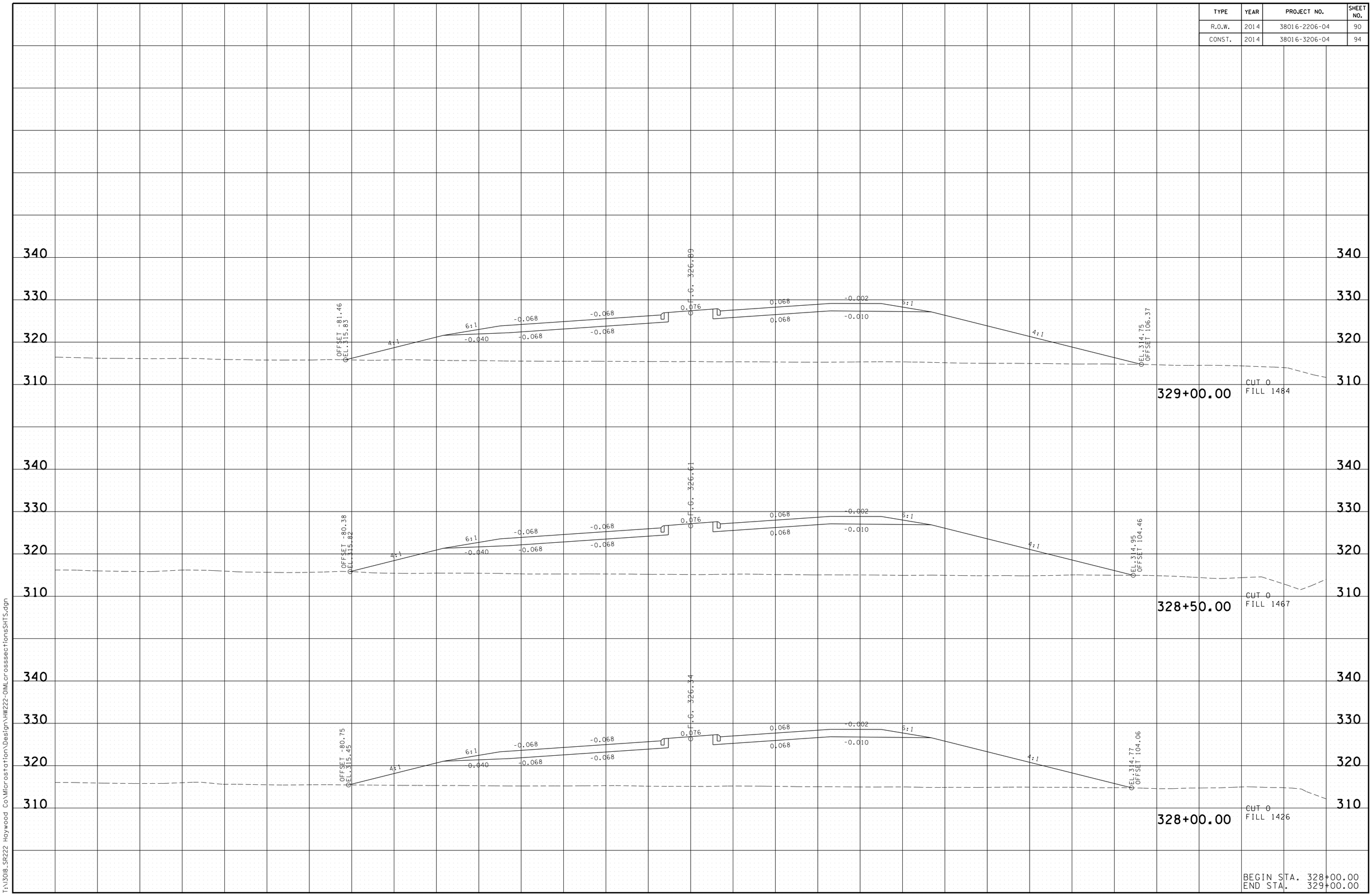
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	90
CONST.	2014	38016-3206-04	94



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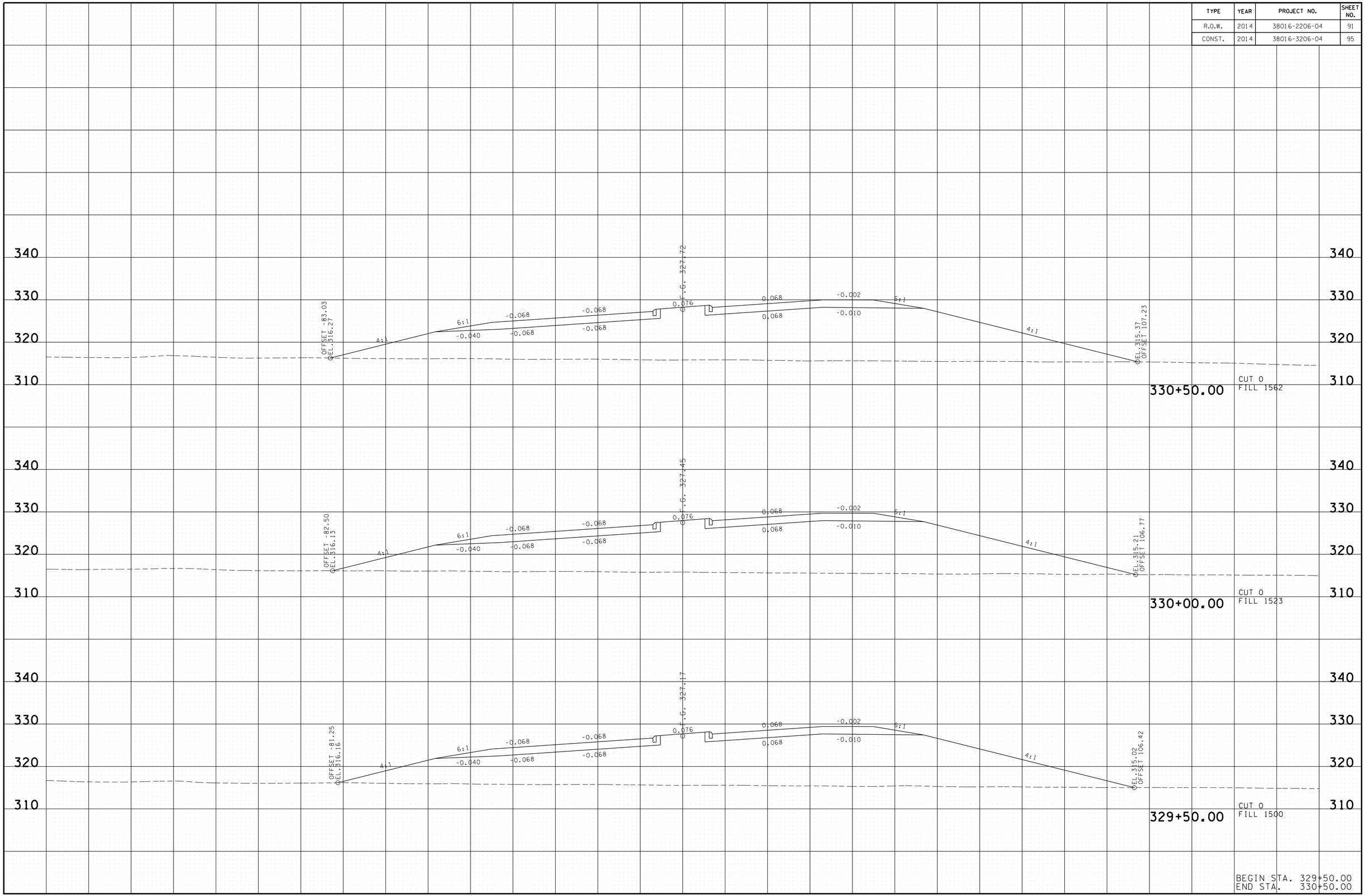
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	91
CONST.	2014	38016-3206-04	95



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3/13/2014 7:26:02 AM
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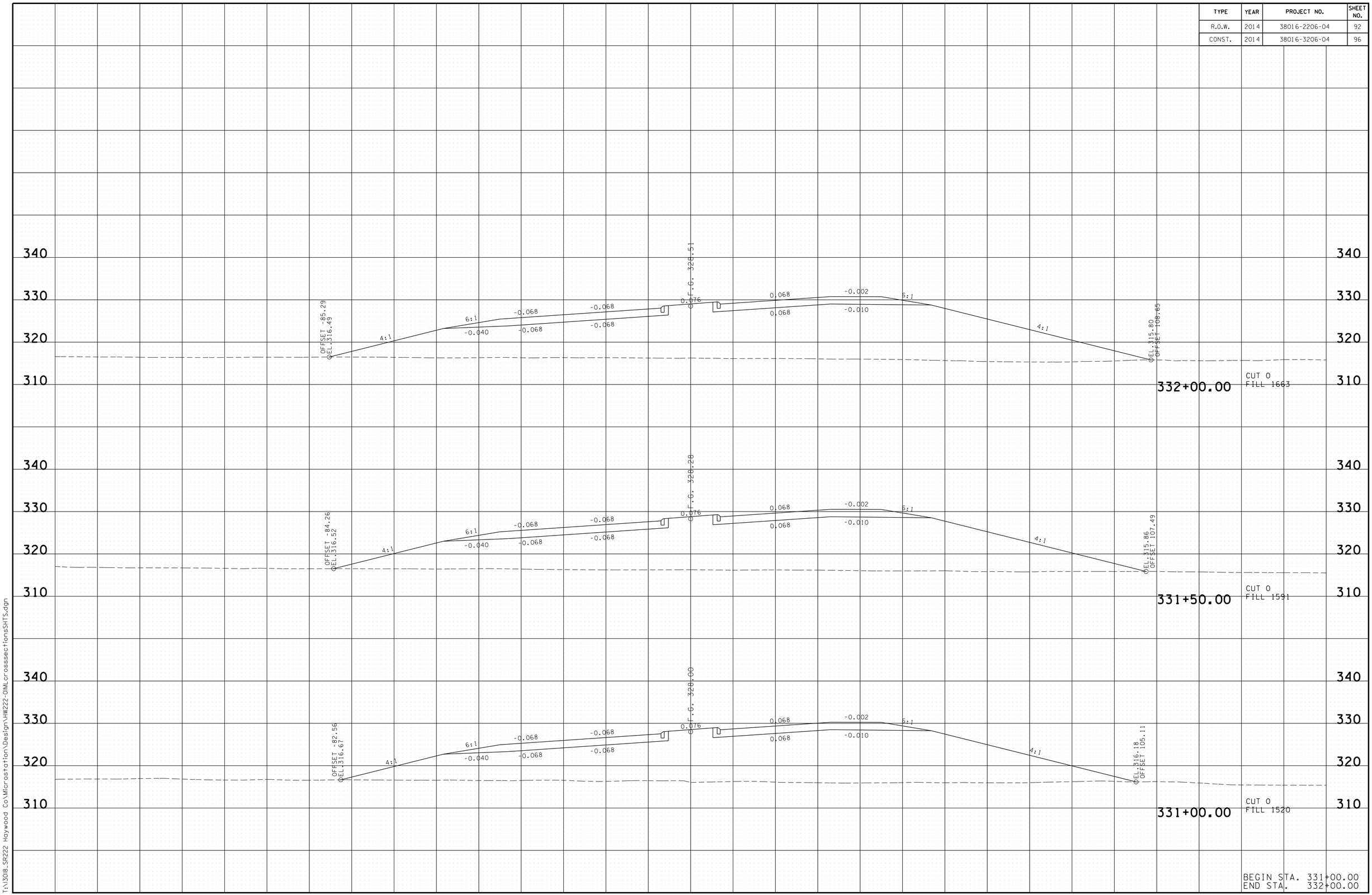
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	92
CONST.	2014	38016-3206-04	96



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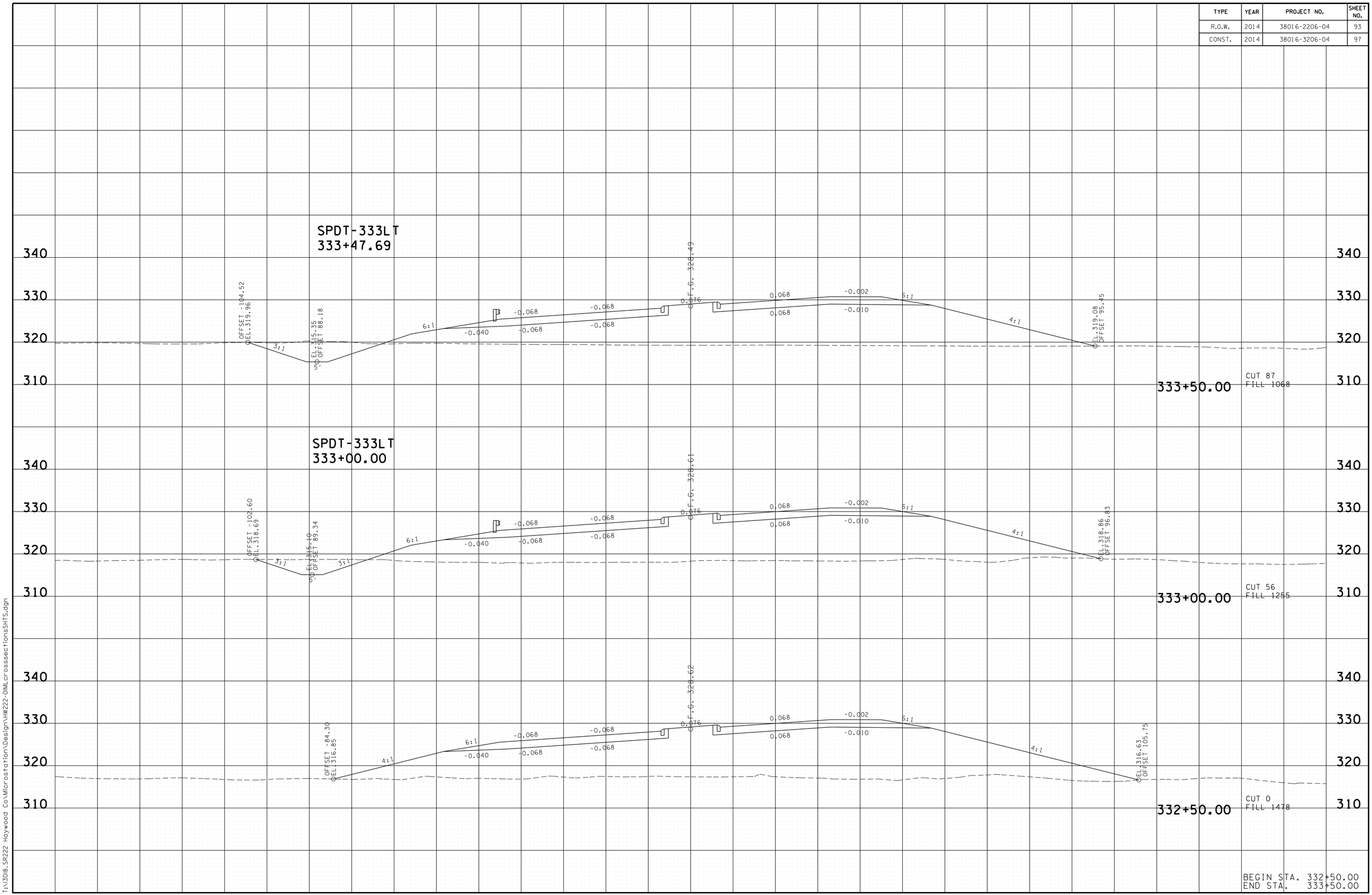
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	93
CONST.	2014	38016-3206-04	97



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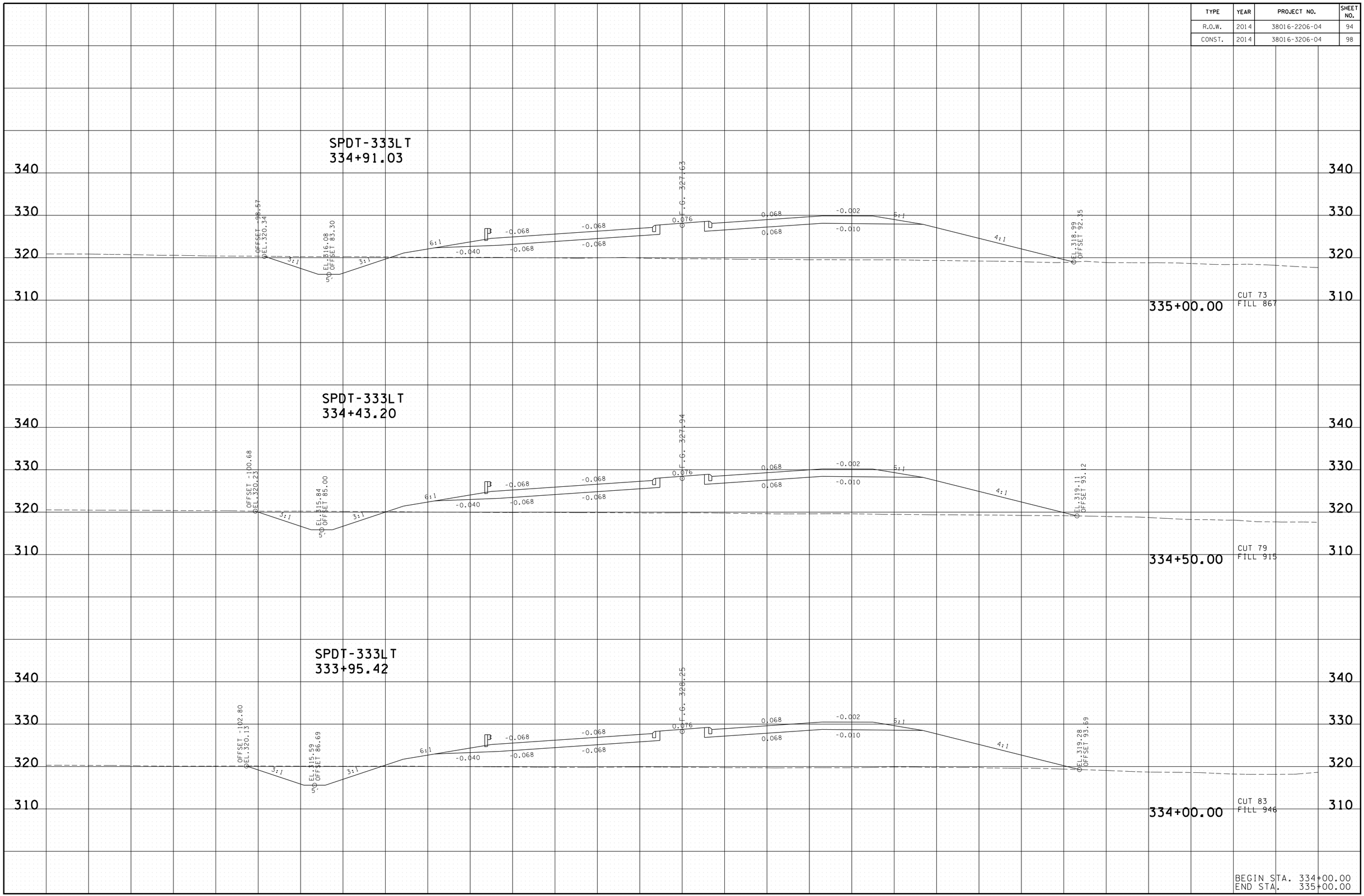
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	94
CONST.	2014	38016-3206-04	98



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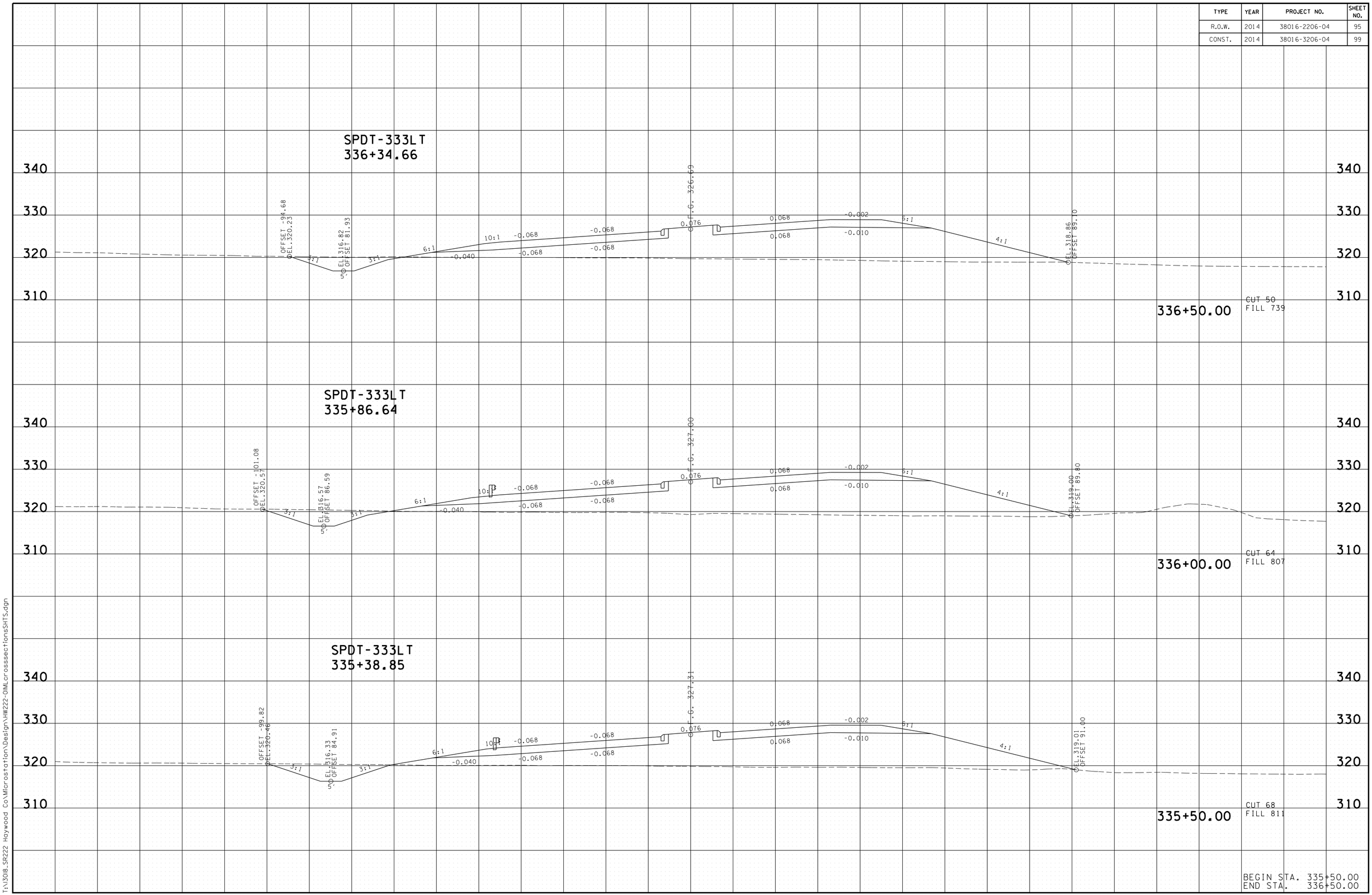
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	95
CONST.	2014	38016-3206-04	99



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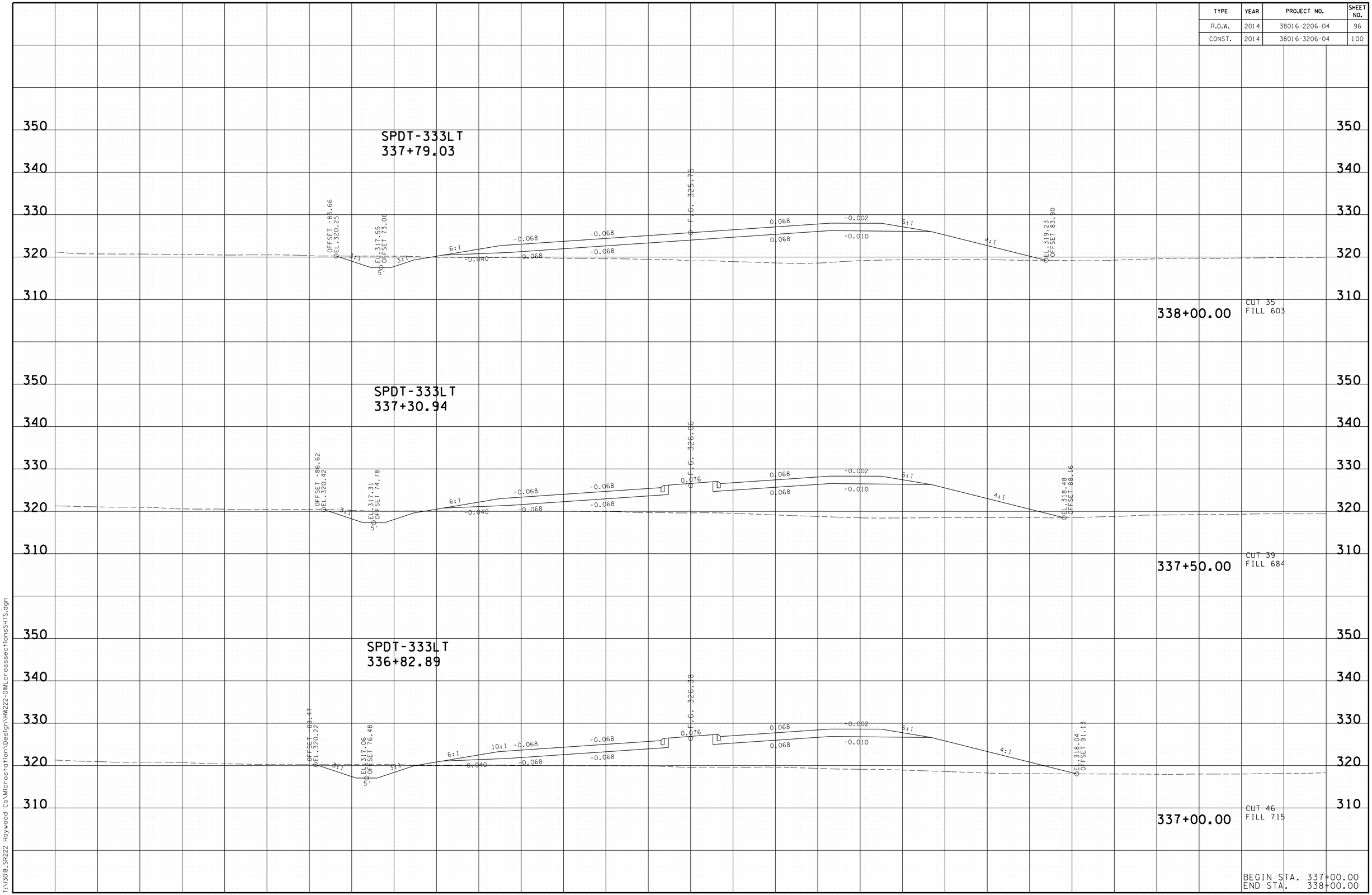
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	96
CONST.	2014	38016-3206-04	100



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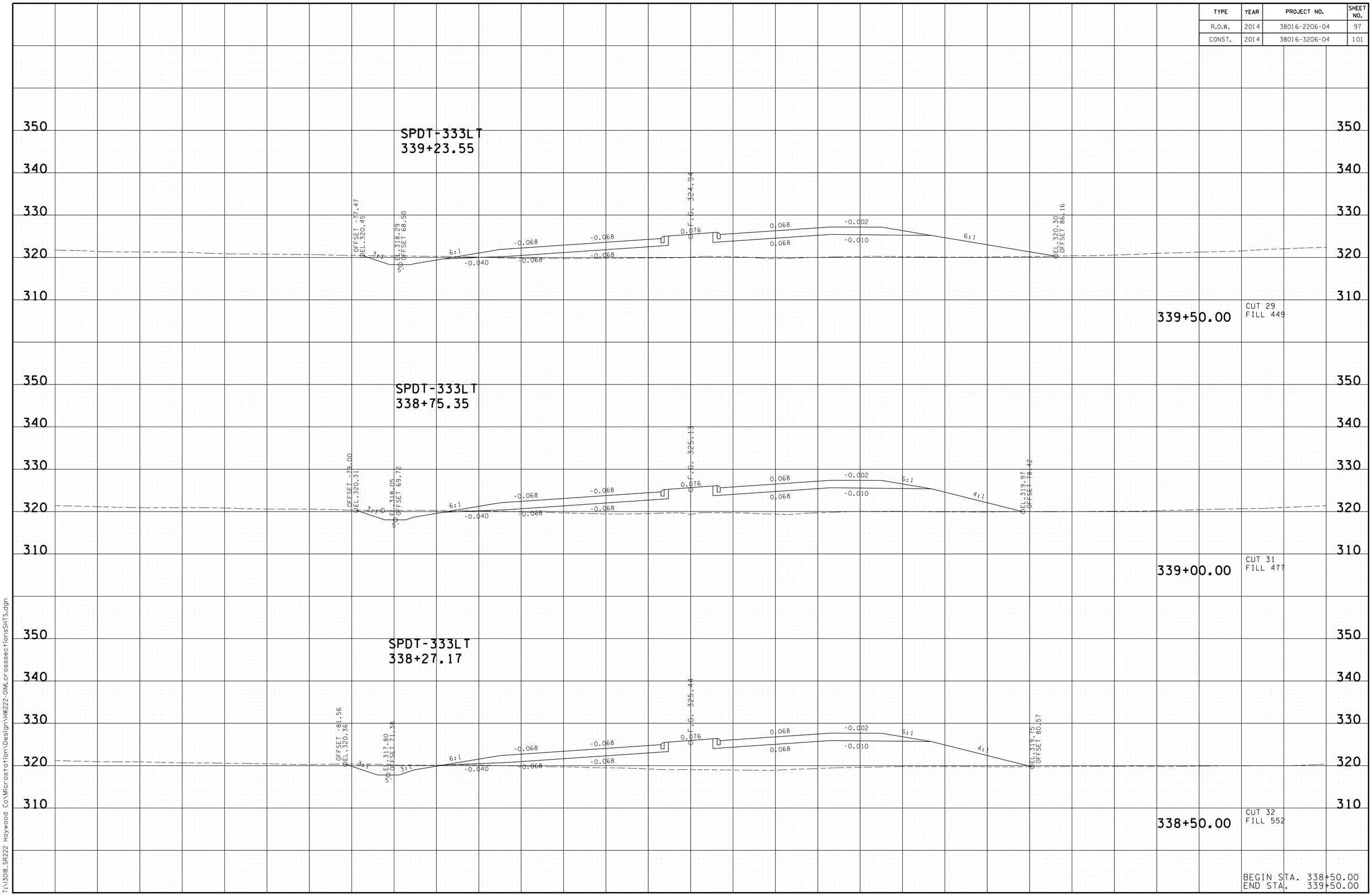
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	97
CONST.	2014	38016-3206-04	101



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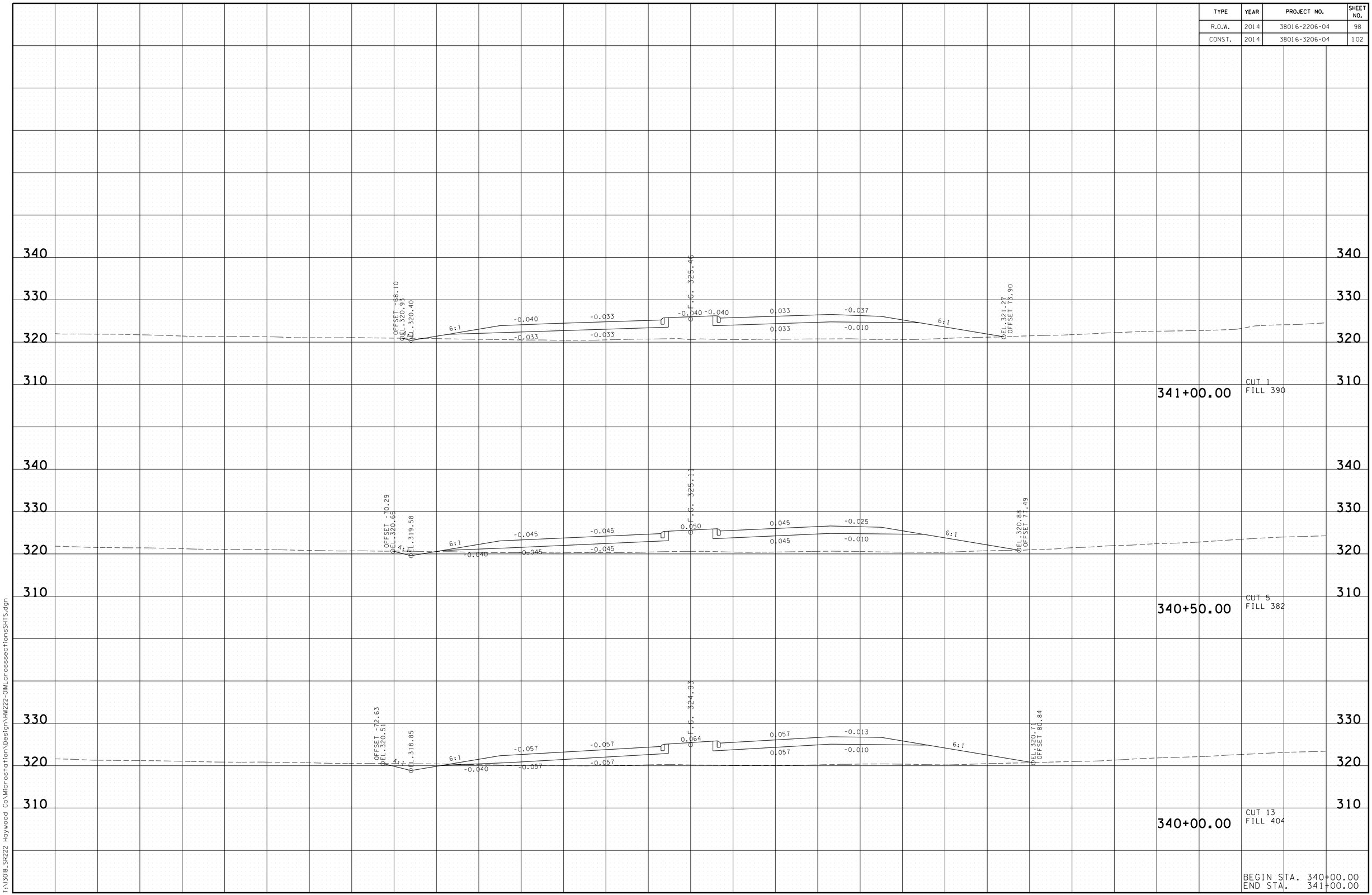
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	98
CONST.	2014	38016-3206-04	102



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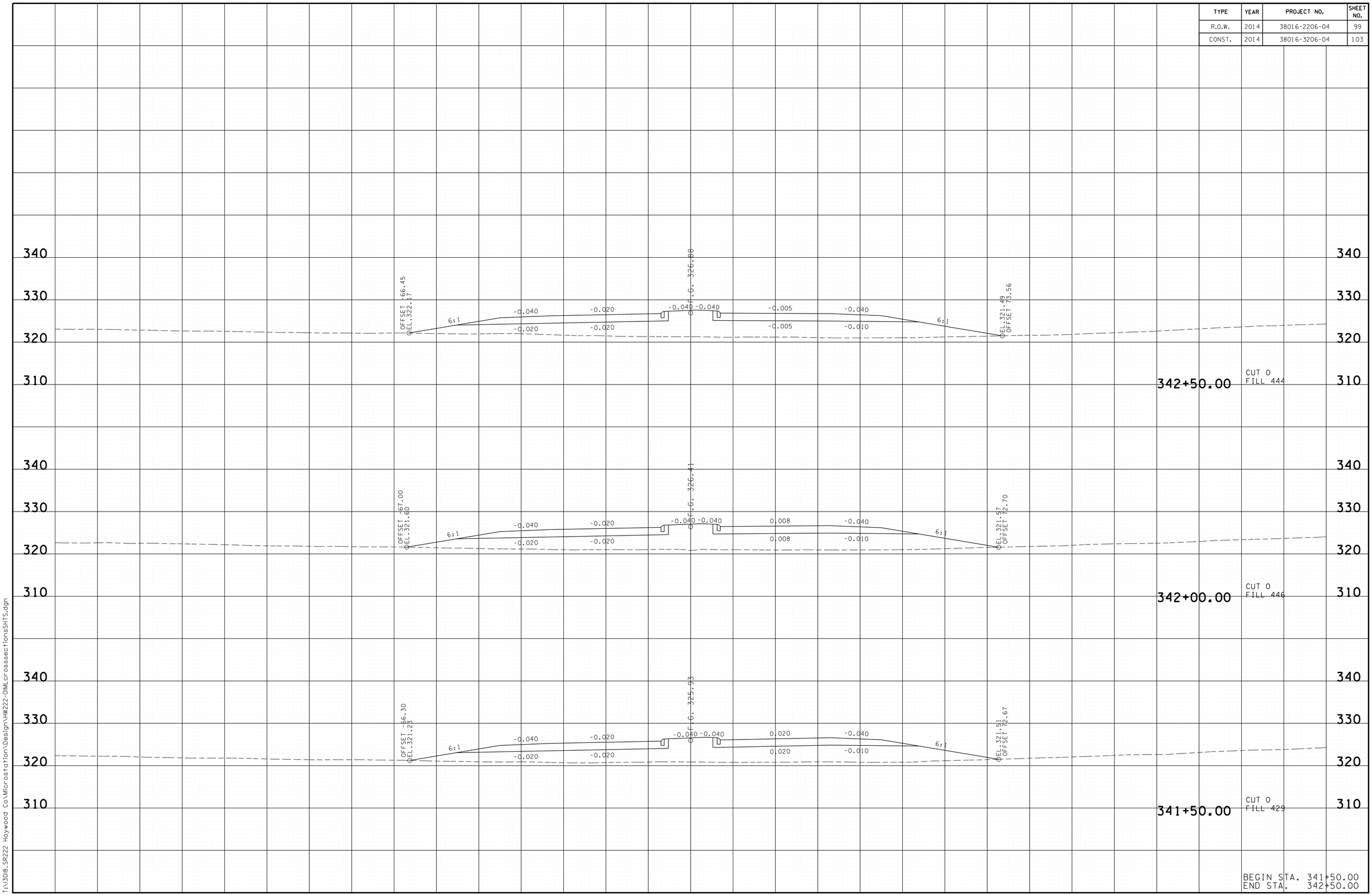
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	99
CONST.	2014	38016-3206-04	103



BEGIN STA. 341+50.00
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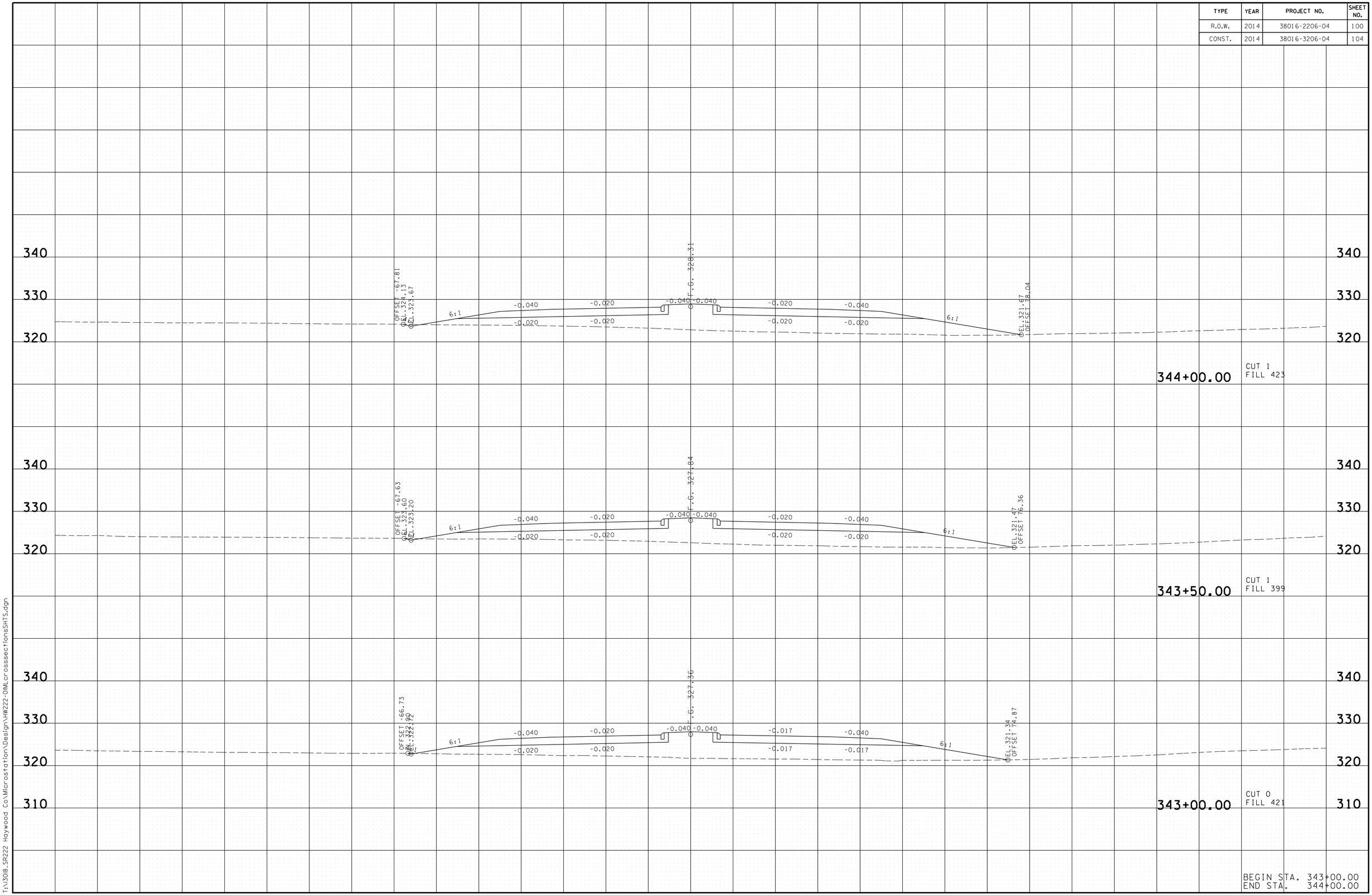
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	100
CONST.	2014	38016-3206-04	104



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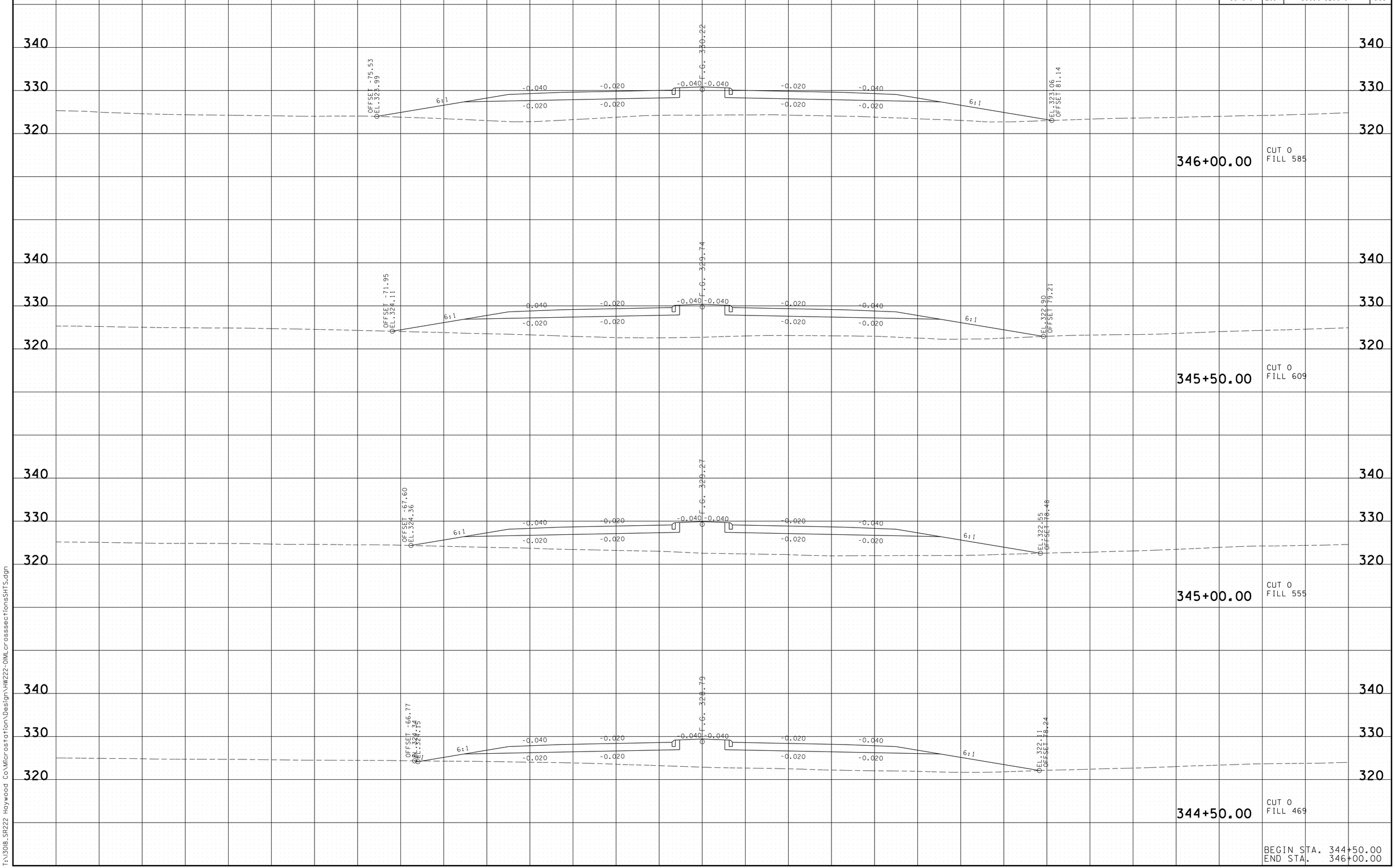
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	101
CONST.	2014	38016-3206-04	105



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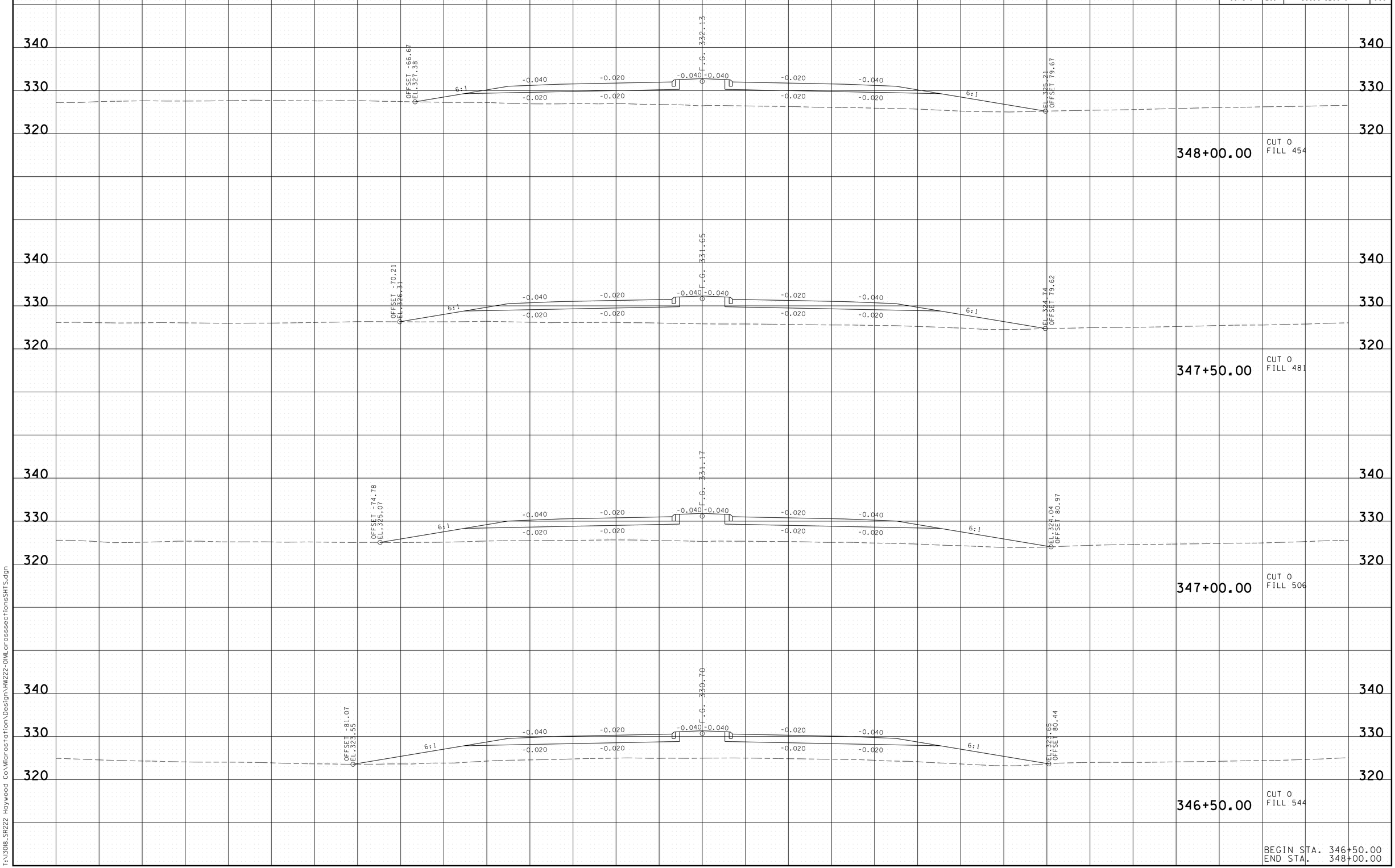
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	102
CONST.	2014	38016-3206-04	106



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3/13/2014 7:26:58 AM
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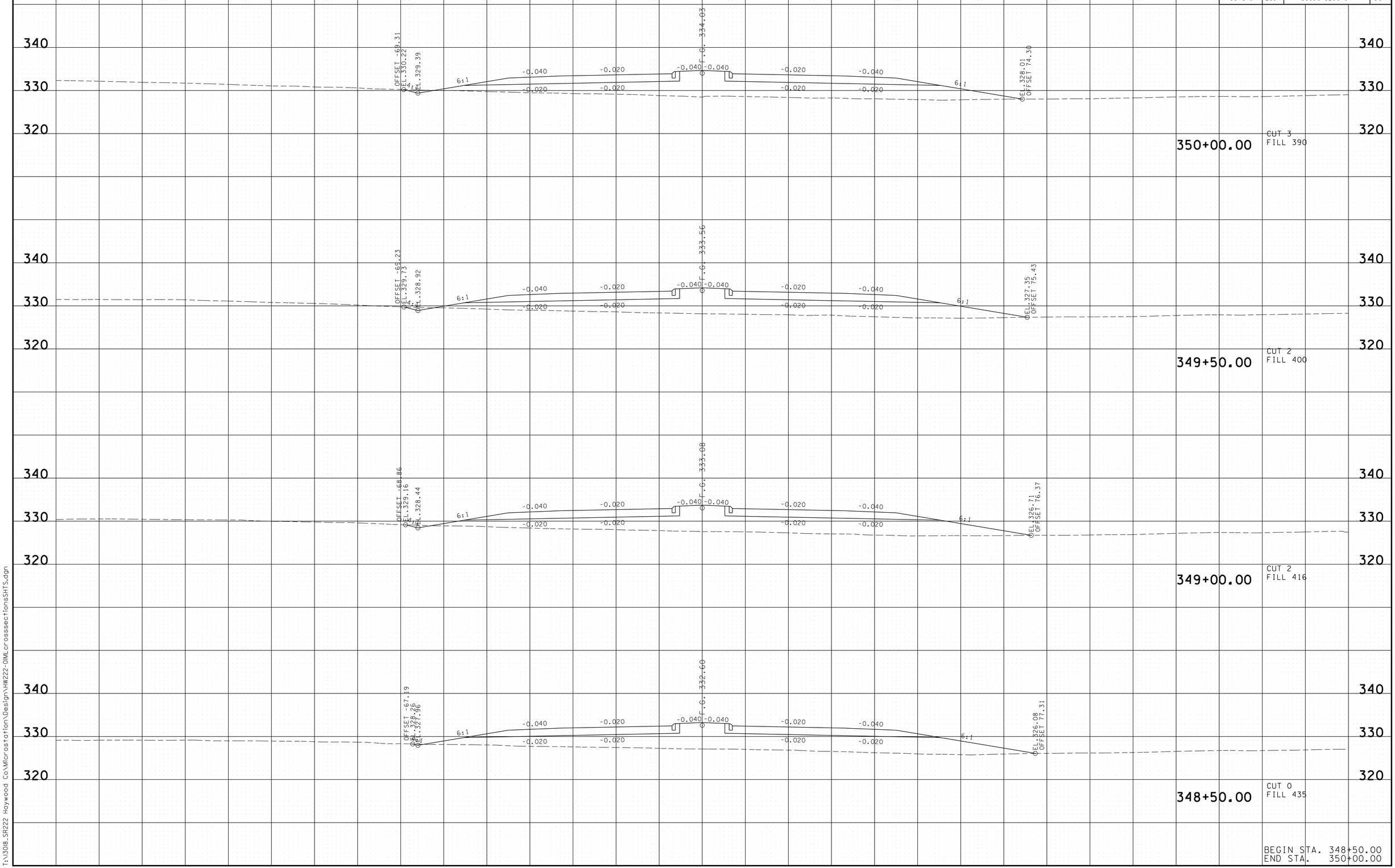
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	103
CONST.	2014	38016-3206-04	107



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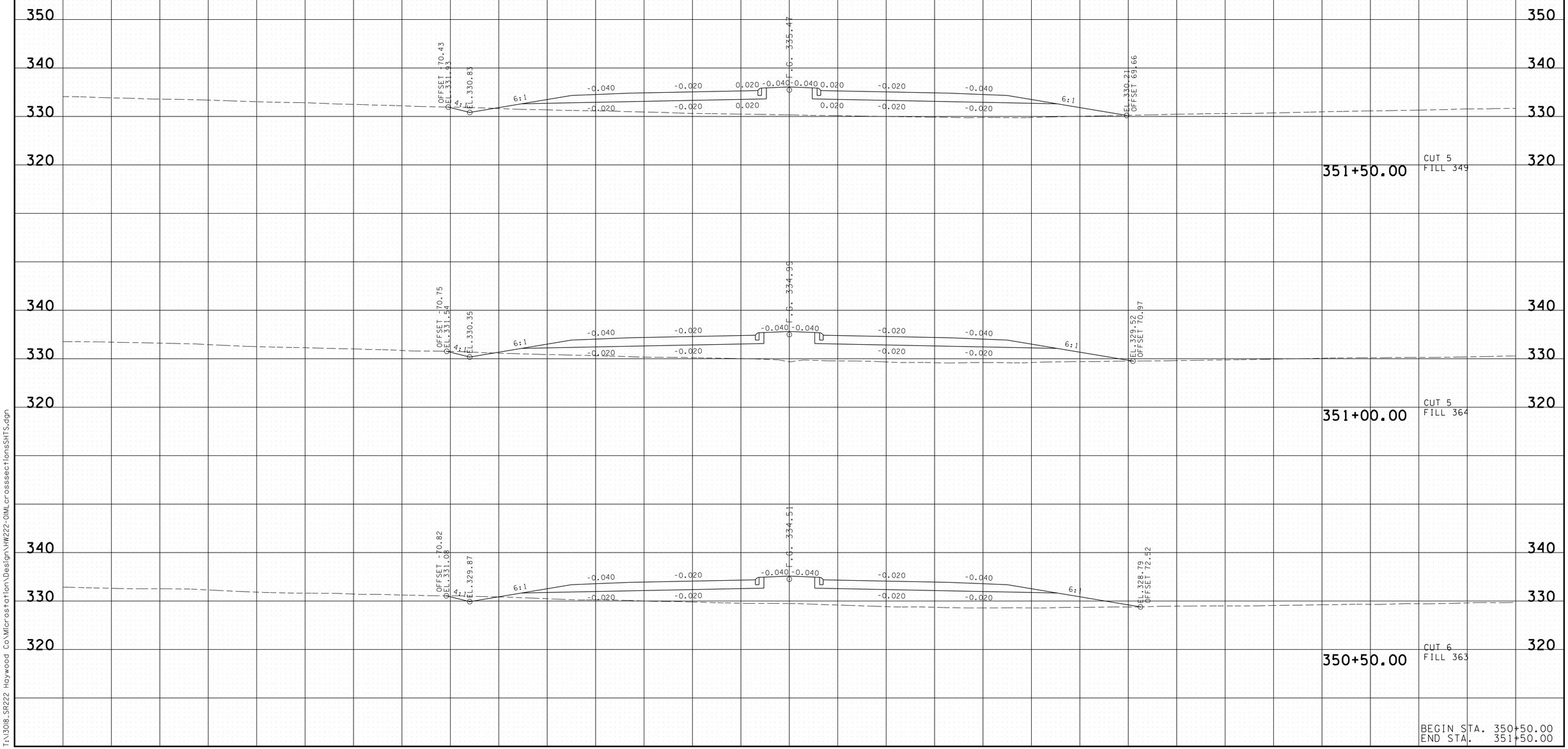
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	104
CONST.	2014	38016-3206-04	108



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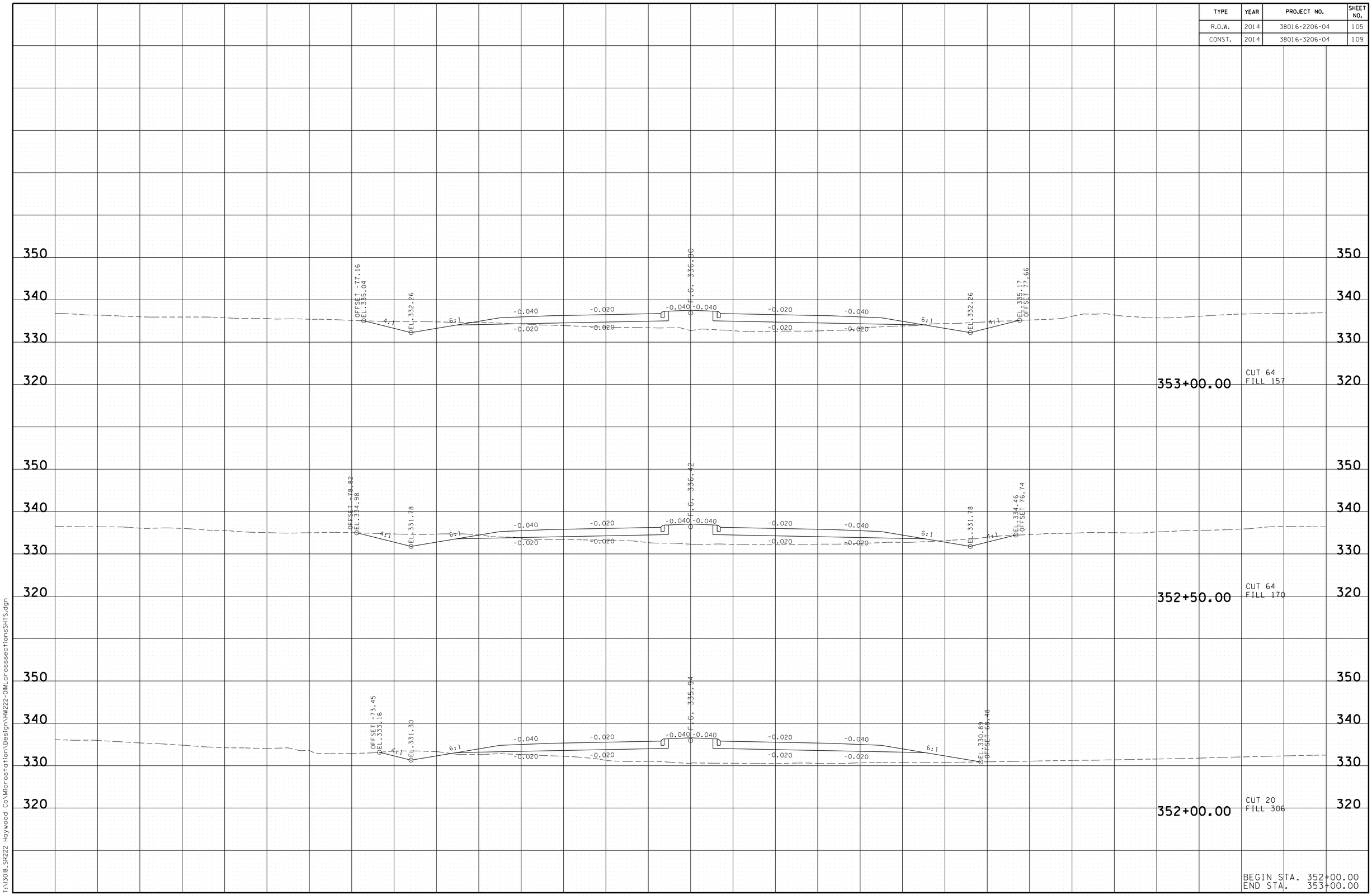
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	105
CONST.	2014	38016-3206-04	109



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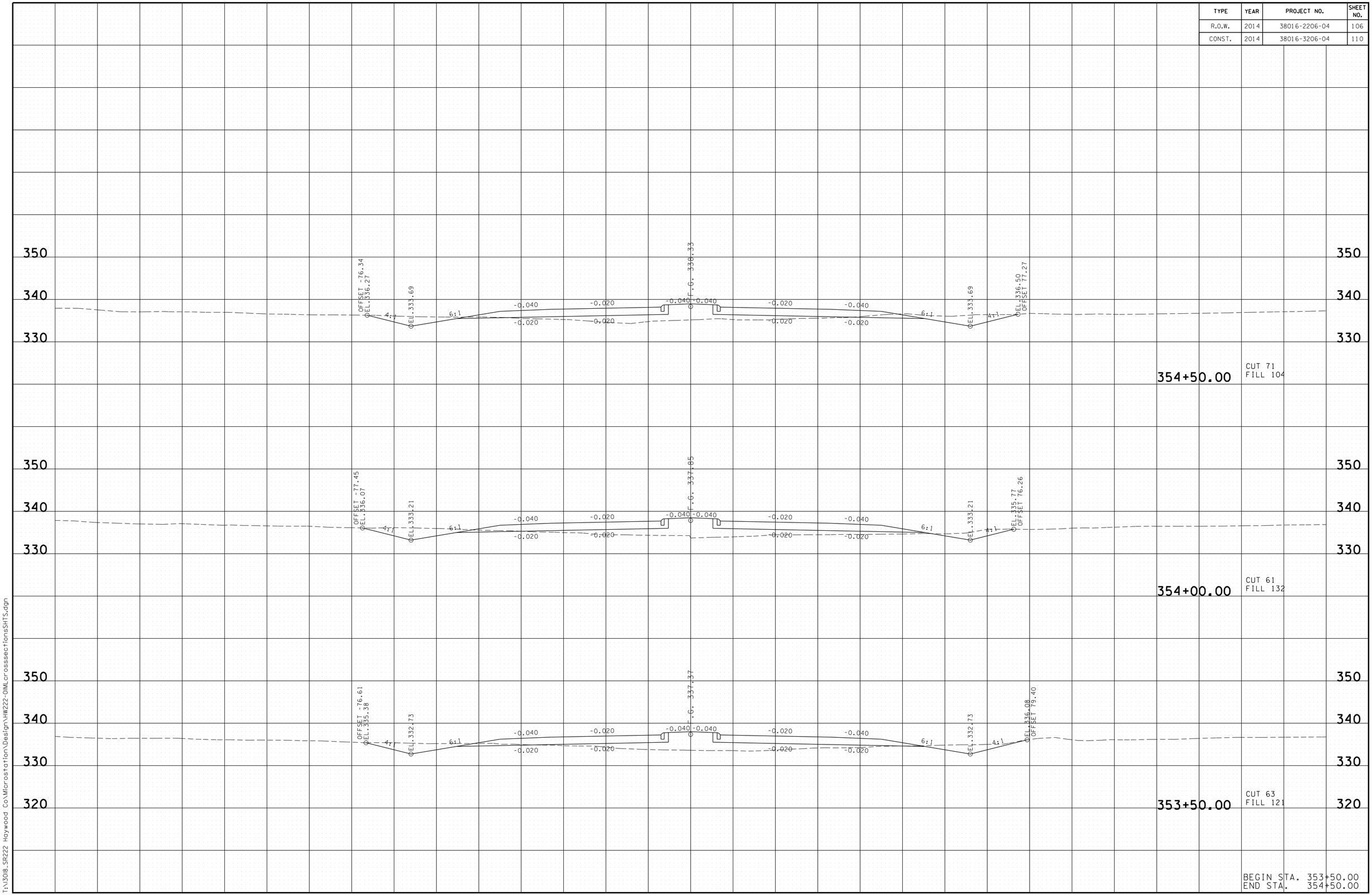
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	106
CONST.	2014	38016-3206-04	110



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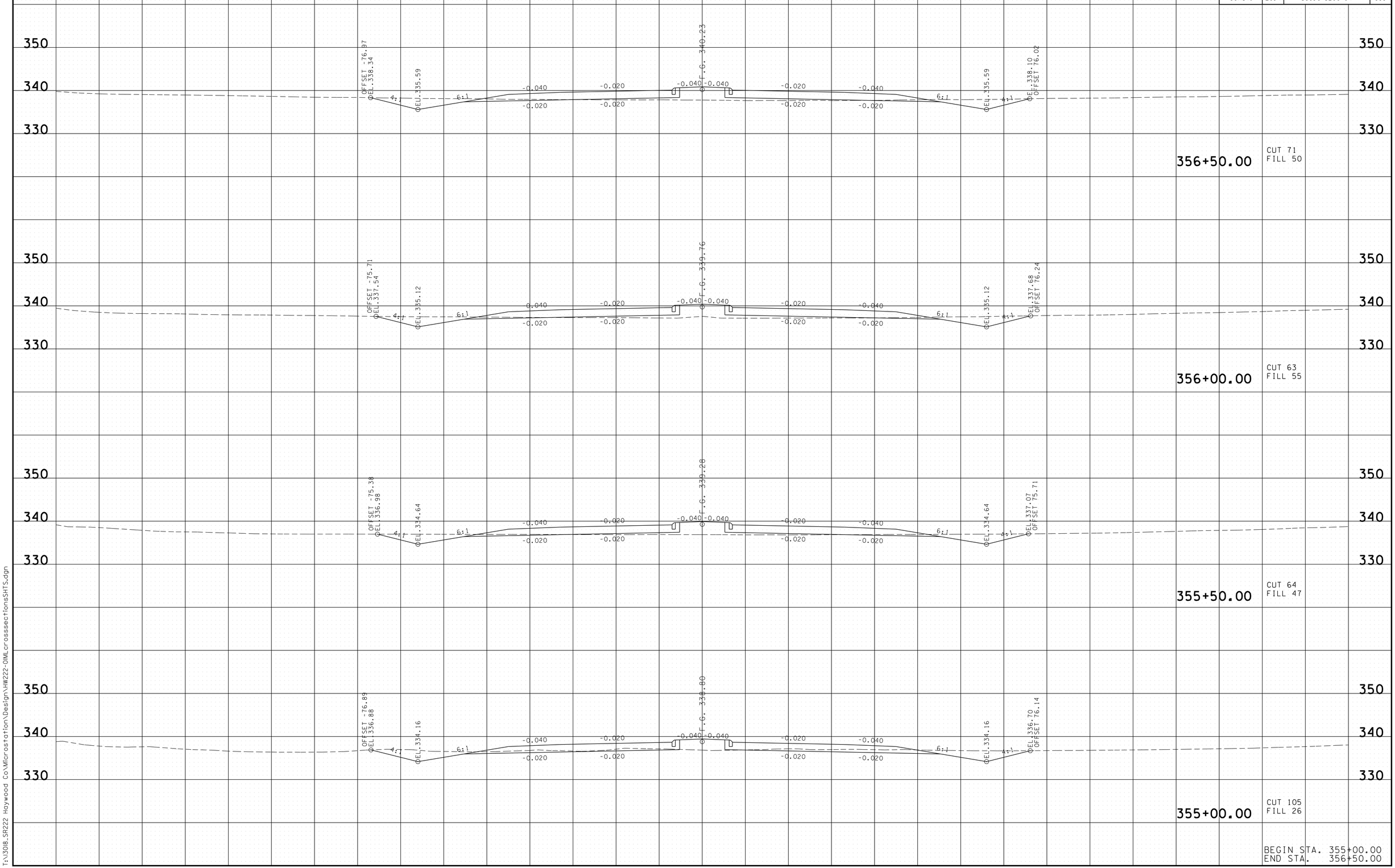
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	107
CONST.	2014	38016-3206-04	111



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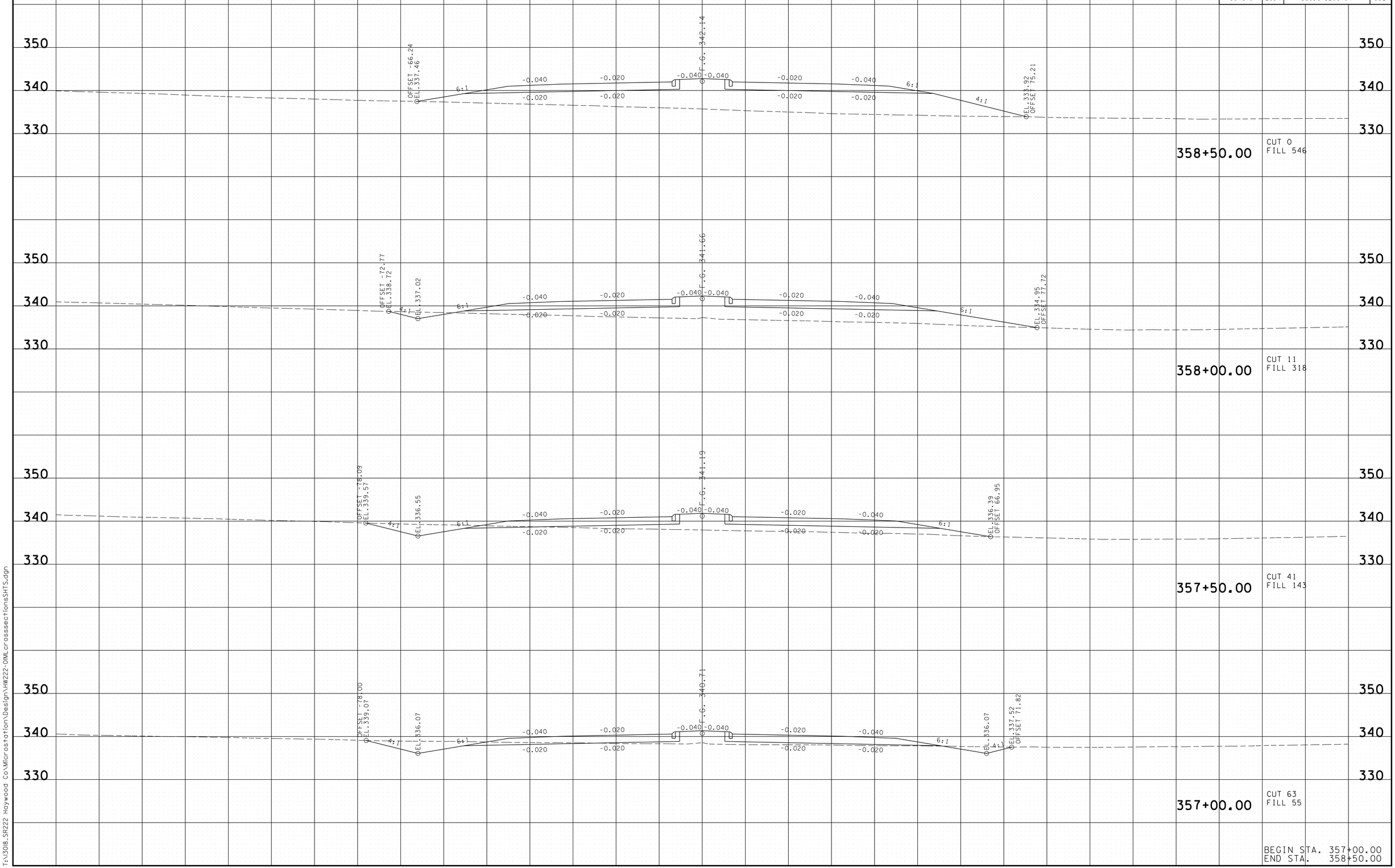
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	108
CONST.	2014	38016-3206-04	112



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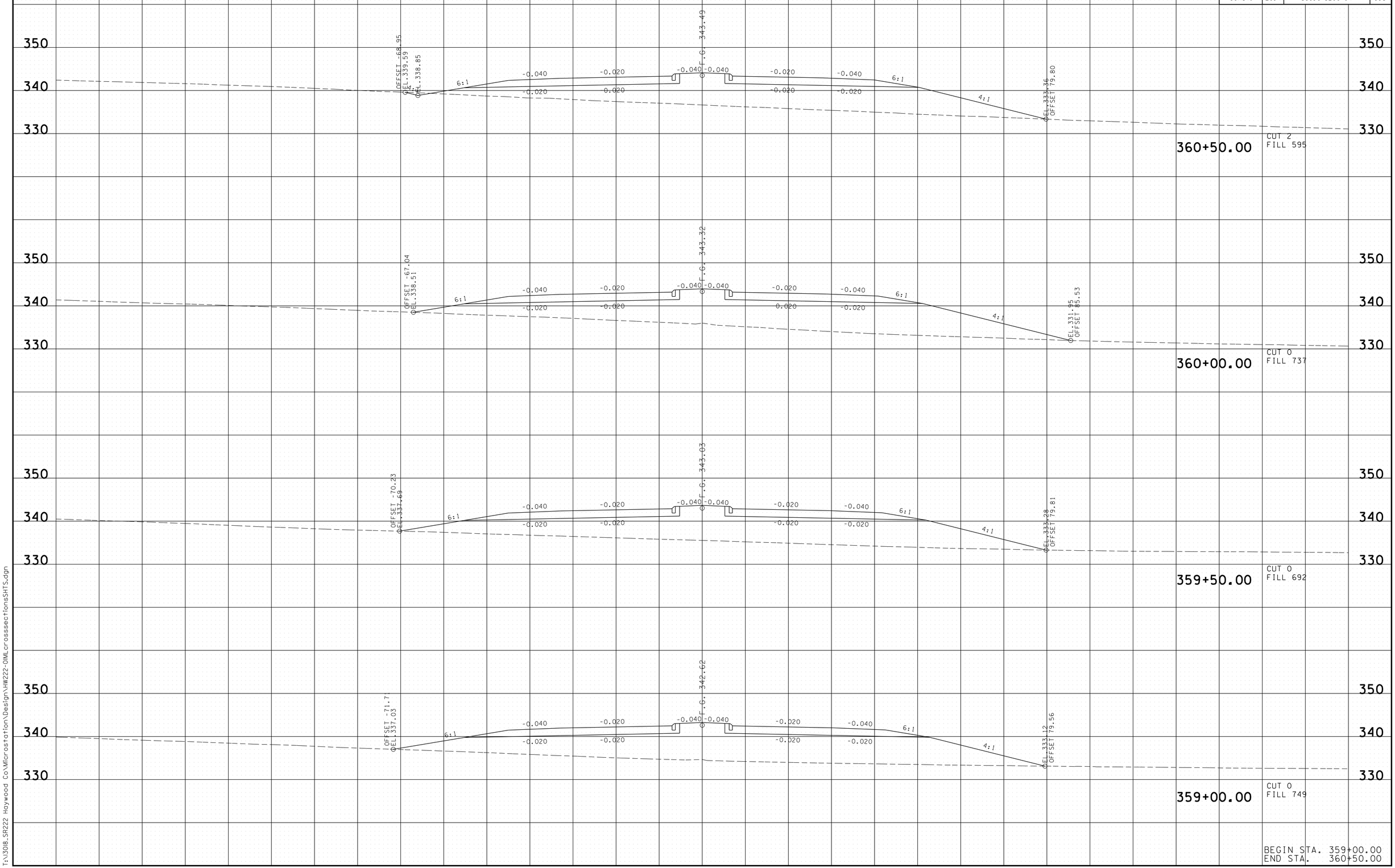
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	109
CONST.	2014	38016-3206-04	113



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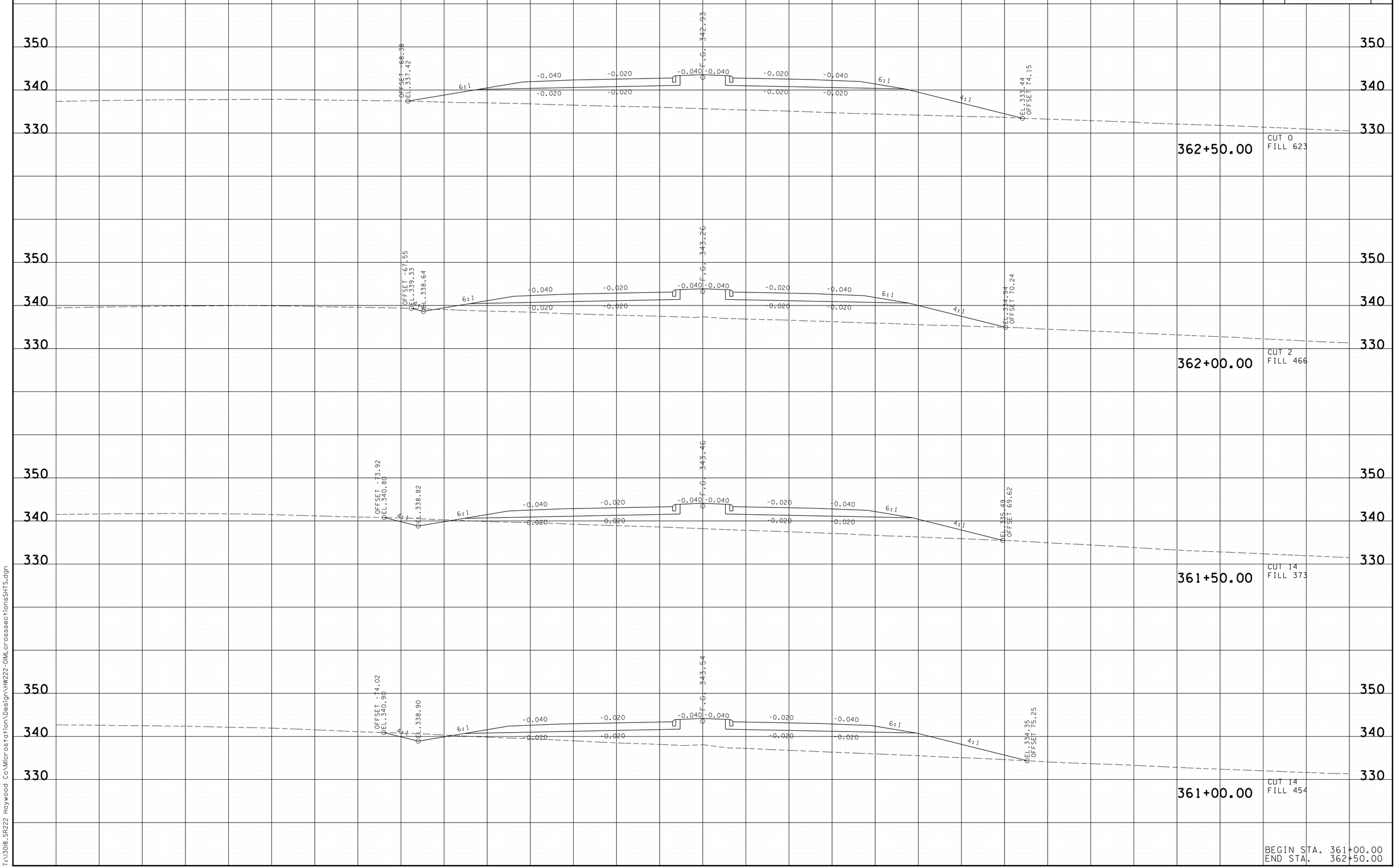
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	110
CONST.	2014	38016-3206-04	114



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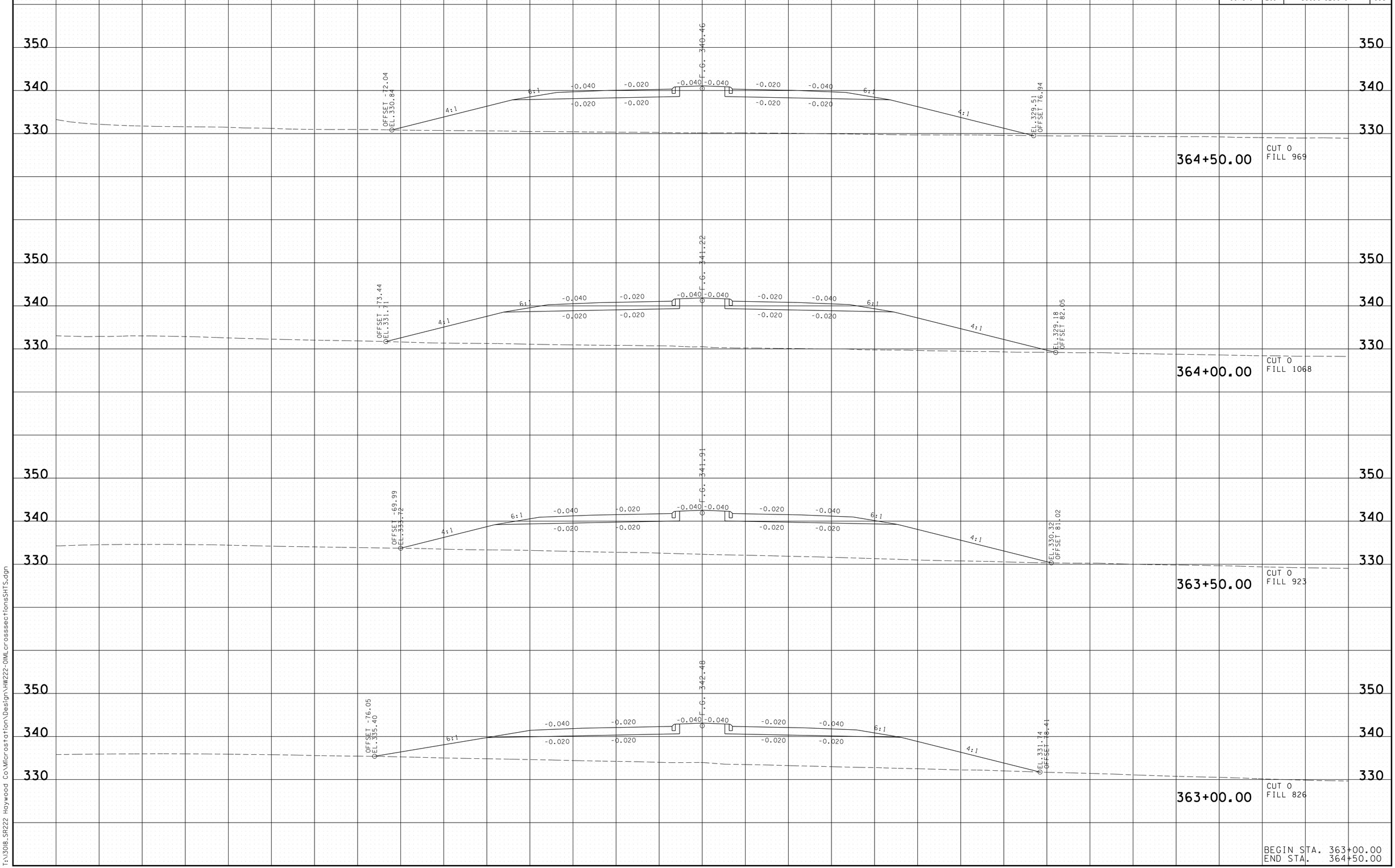
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	111
CONST.	2014	38016-3206-04	115



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3/13/2014 7:27:43 AM
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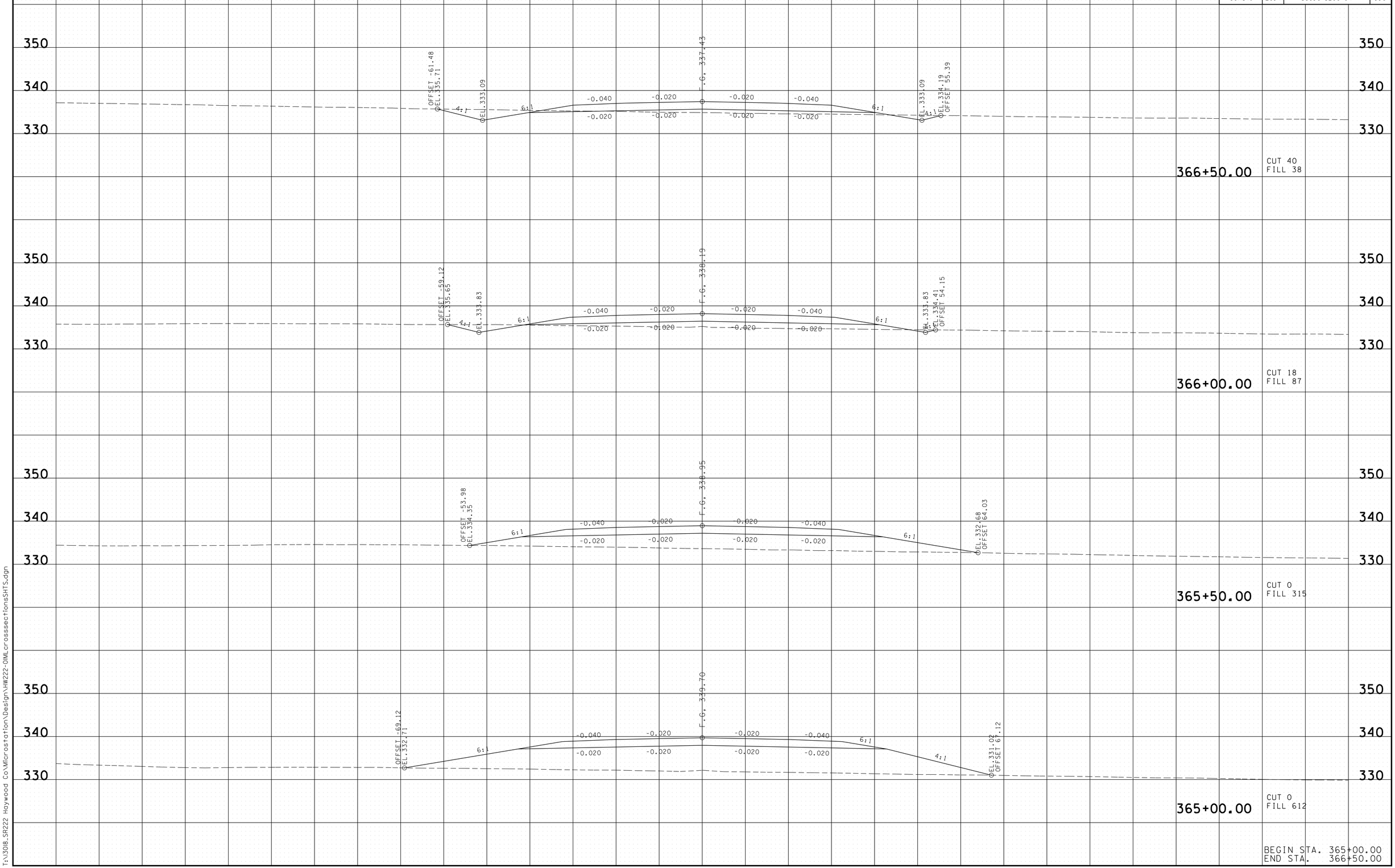
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	112
CONST.	2014	38016-3206-04	116



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3/13/2014 7:27:48 AM
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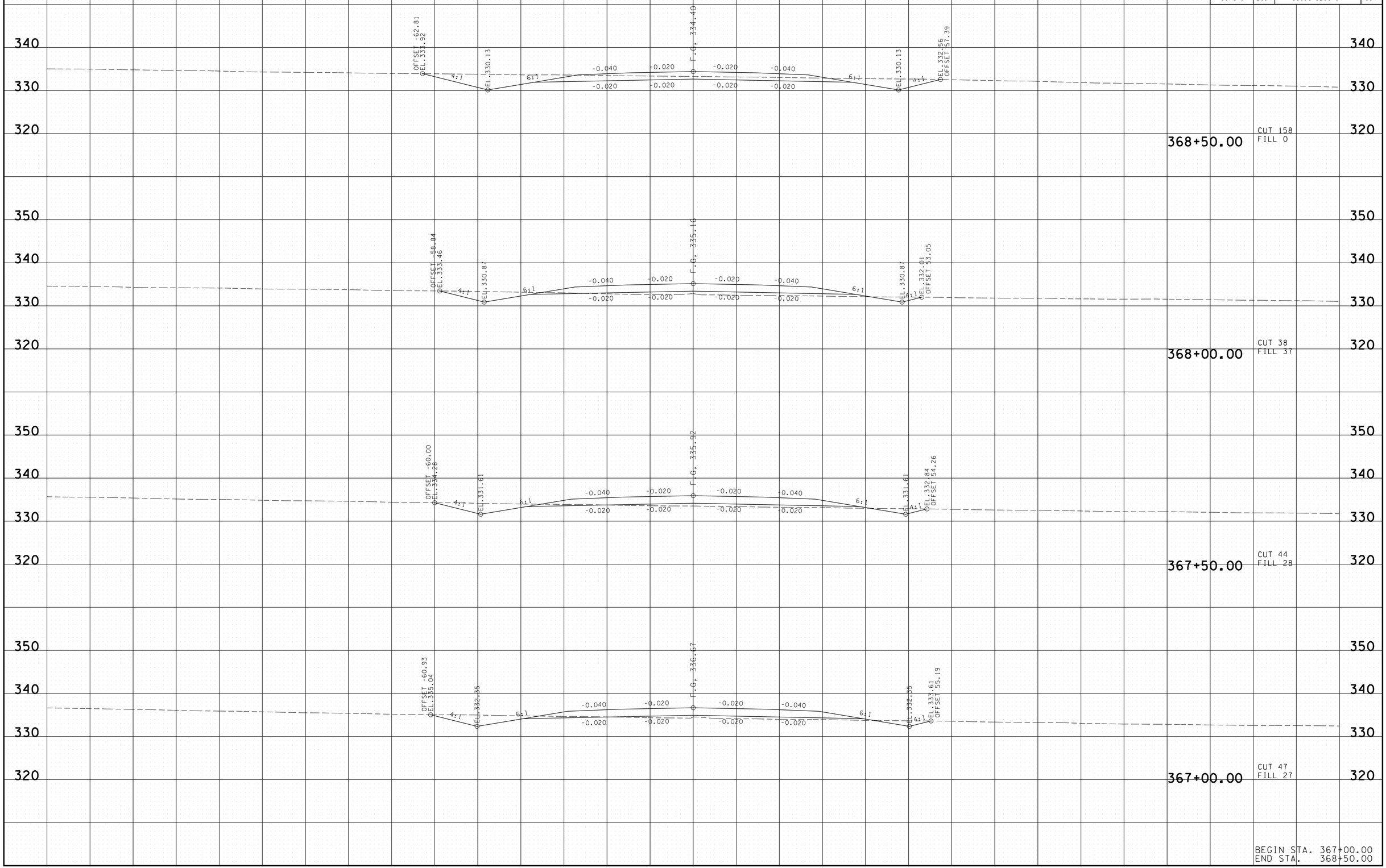
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	113
CONST.	2014	38016-3206-04	117



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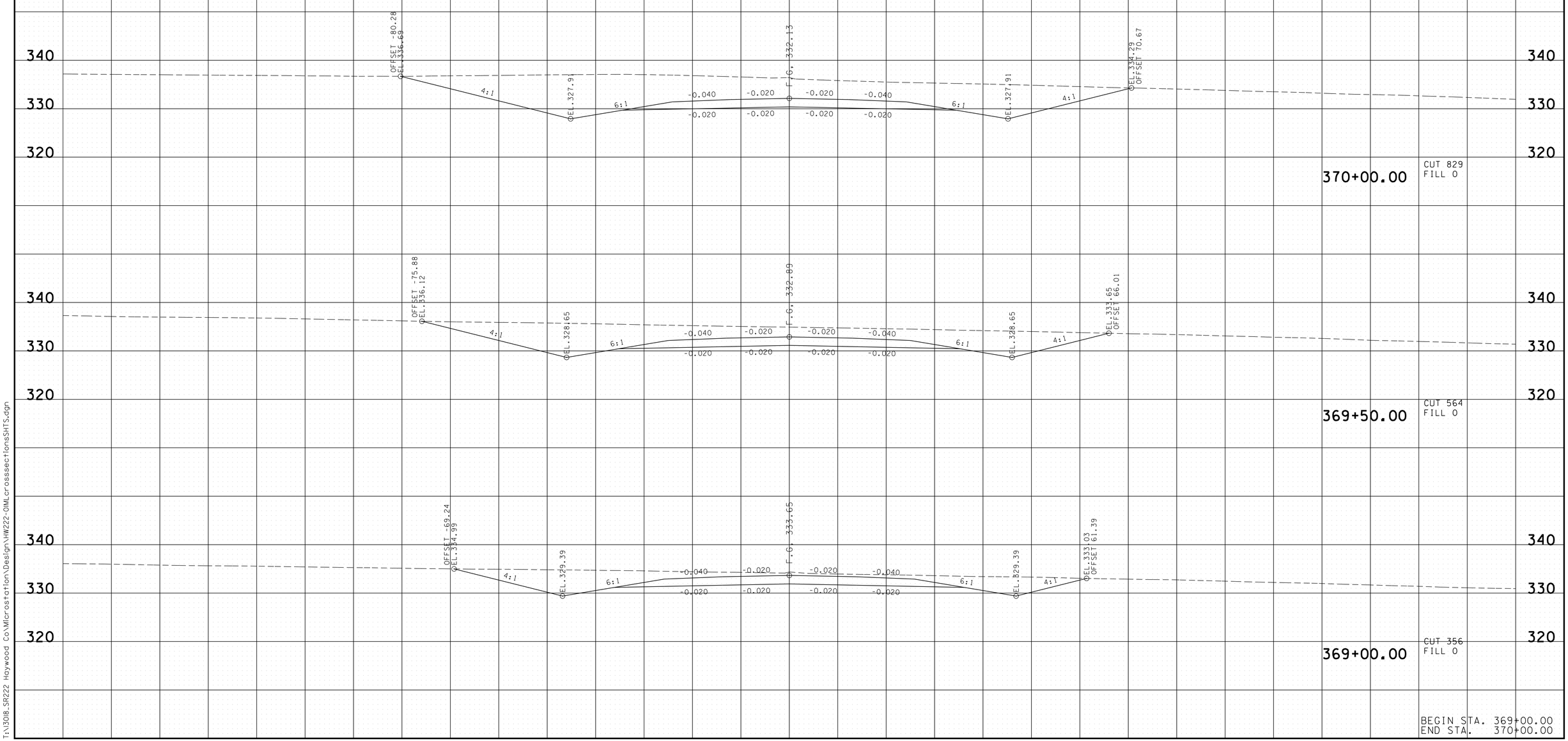
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	114
CONST.	2014	38016-3206-04	118



3/13/2014 7:27:58 AM
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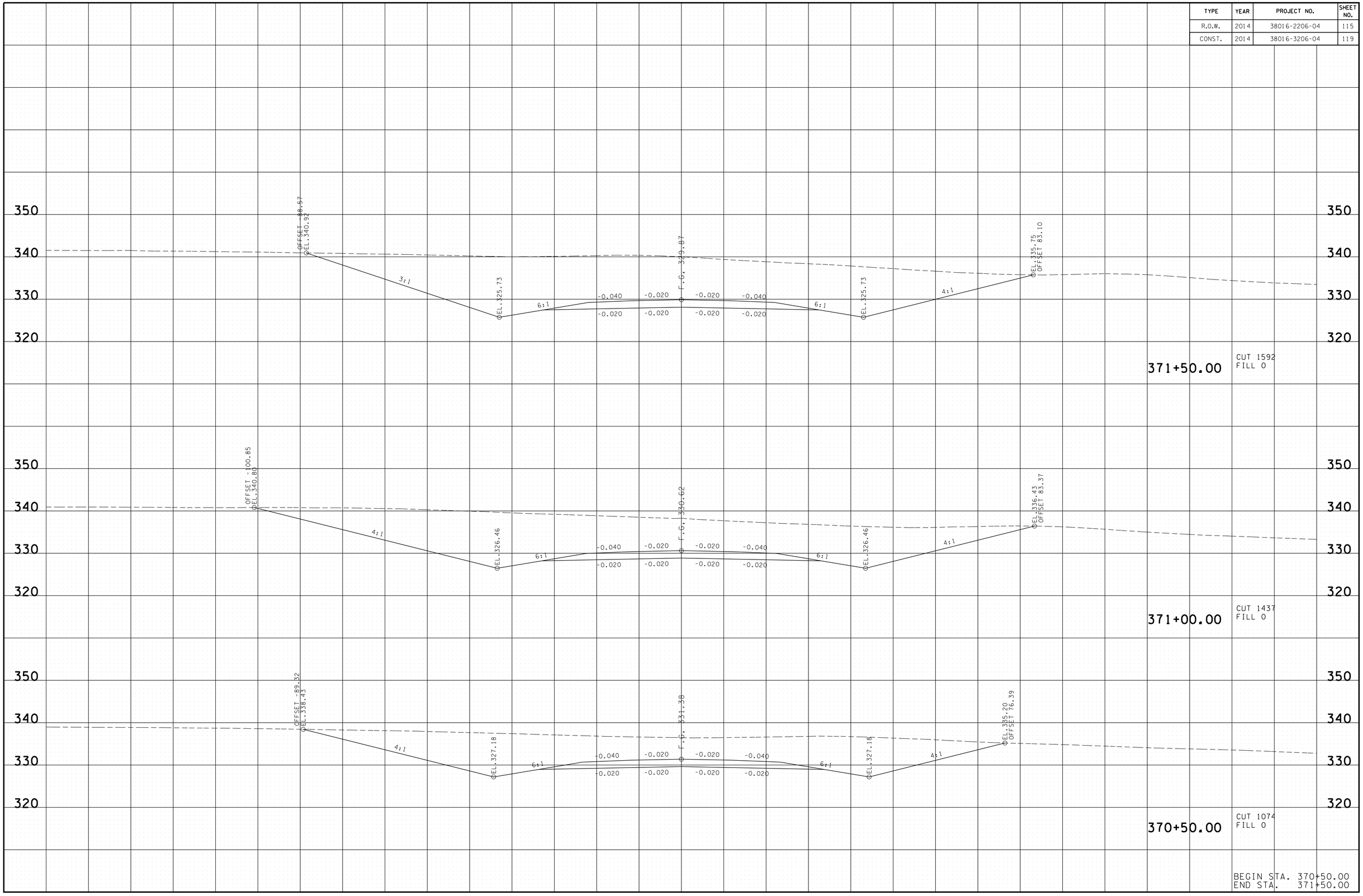
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	115
CONST.	2014	38016-3206-04	119



3/13/2014 7:28:03 AM
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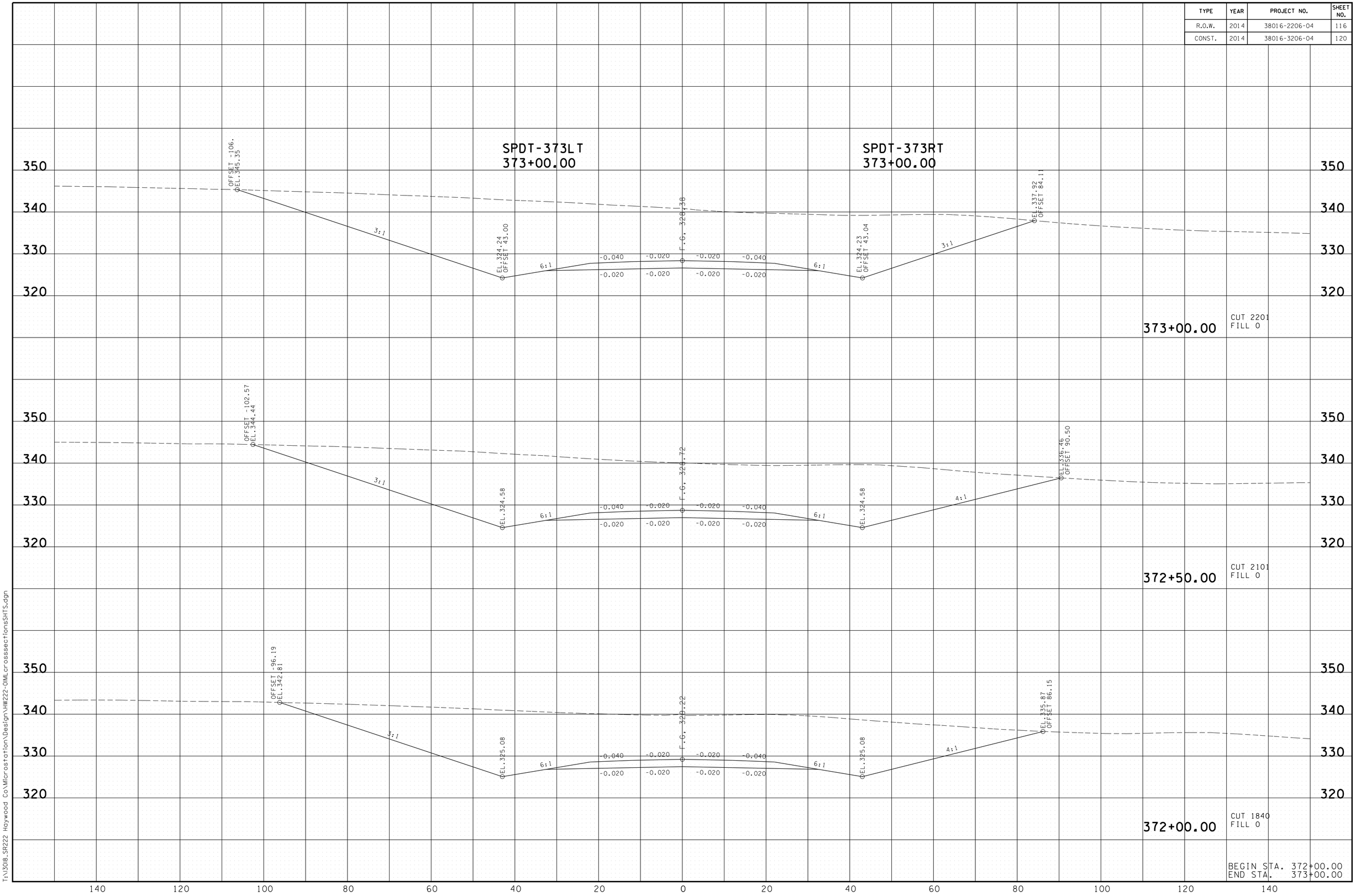
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	116
CONST.	2014	38016-3206-04	120



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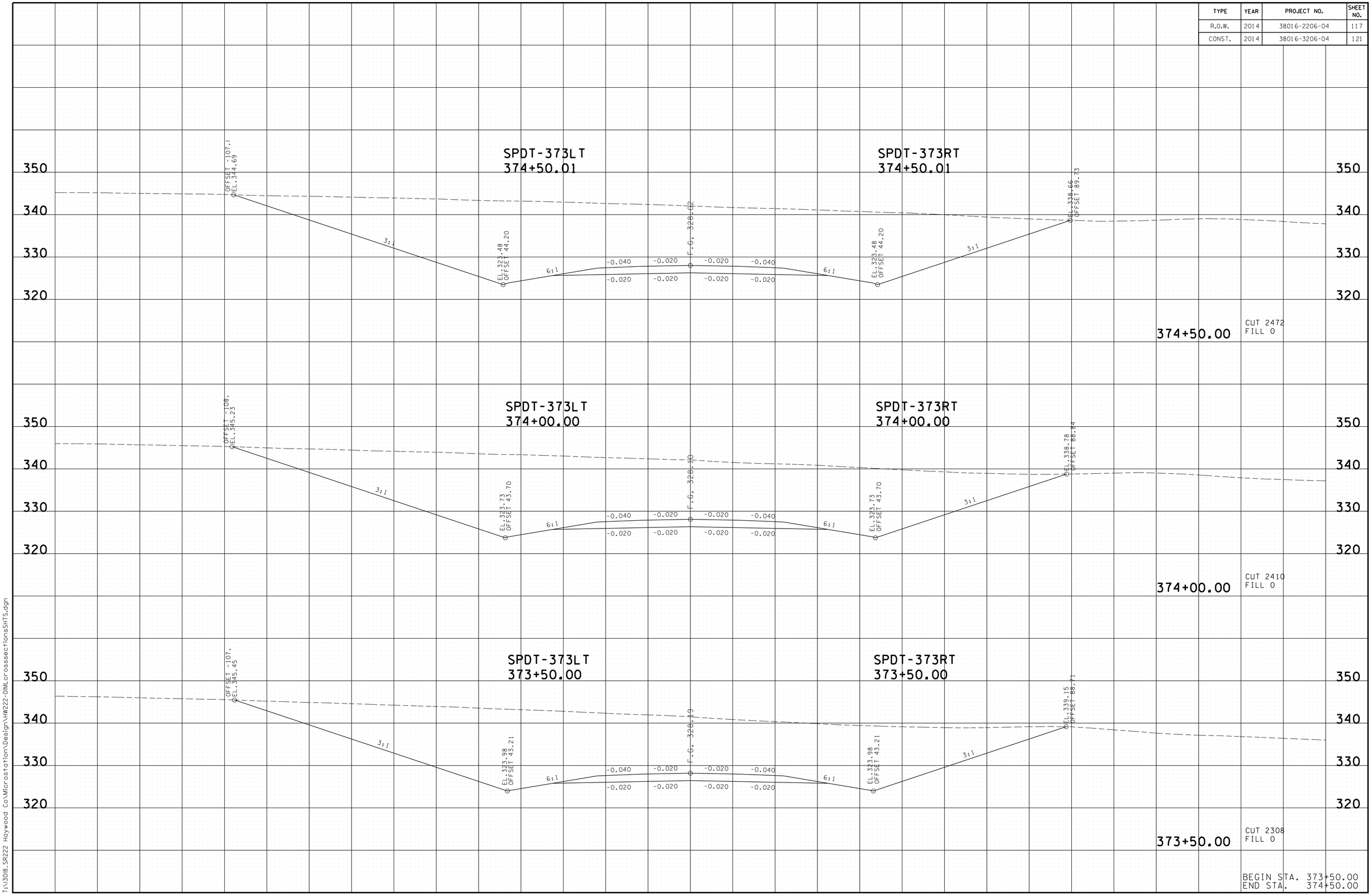
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	117
CONST.	2014	38016-3206-04	121



BEGIN STA. 373+50.00
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3/13/2014 7:28:13 AM
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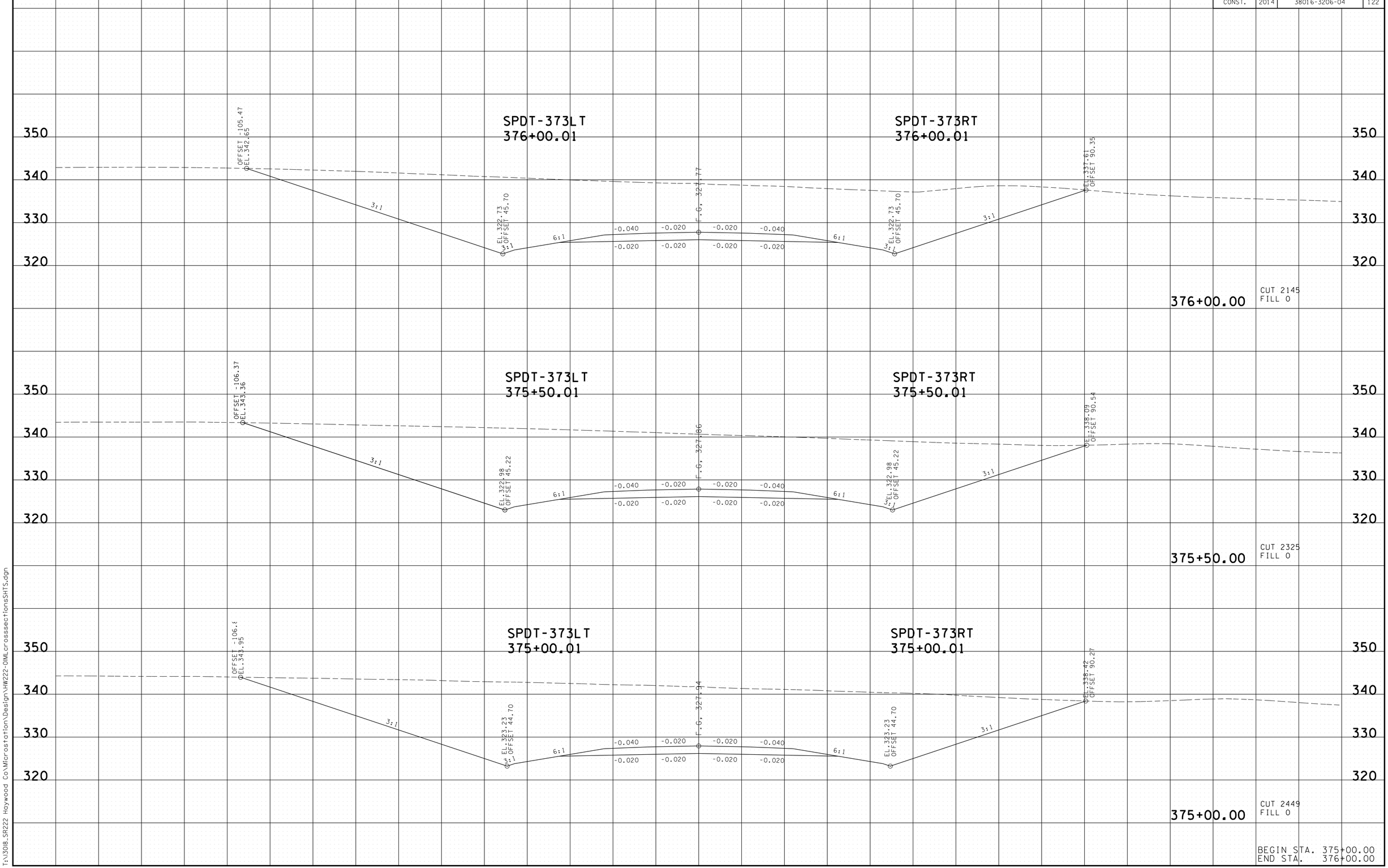
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	118
CONST.	2014	38016-3206-04	122



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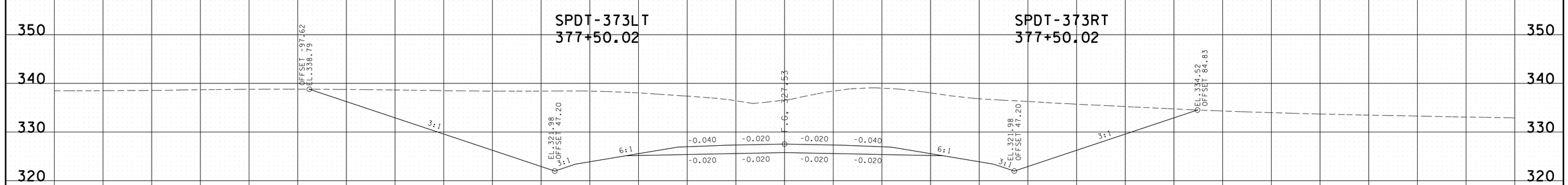
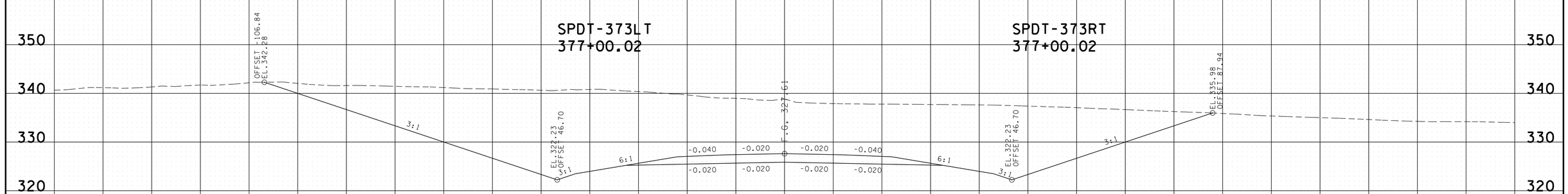
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	119
CONST.	2014	38016-3206-04	123



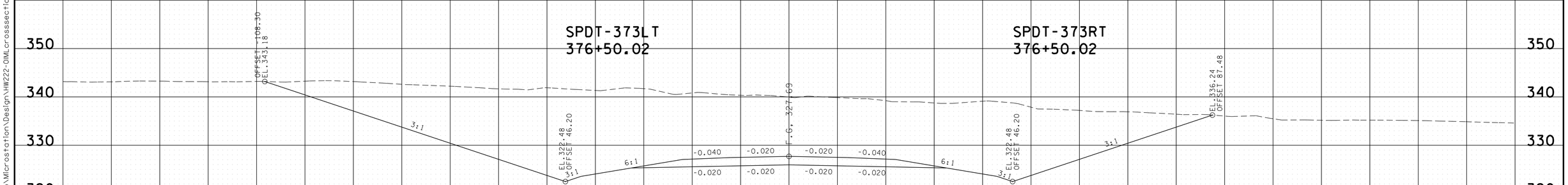
377+50.00

CUT 1883
FILL 0



377+00.00

CUT 2147
FILL 0



376+50.00

CUT 2299
FILL 0

BEGIN STA. 376+50.00
END STA. 377+50.00

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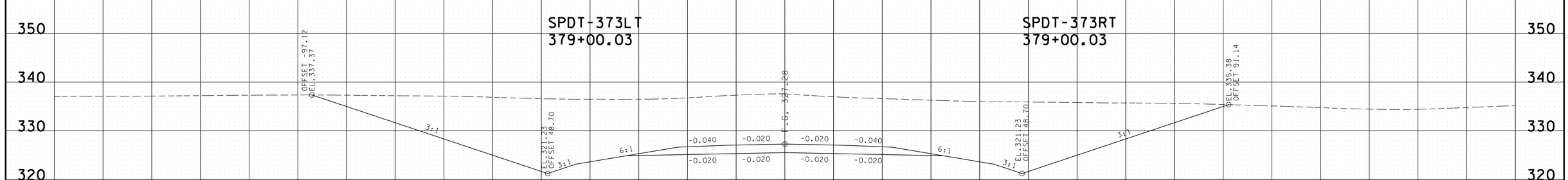
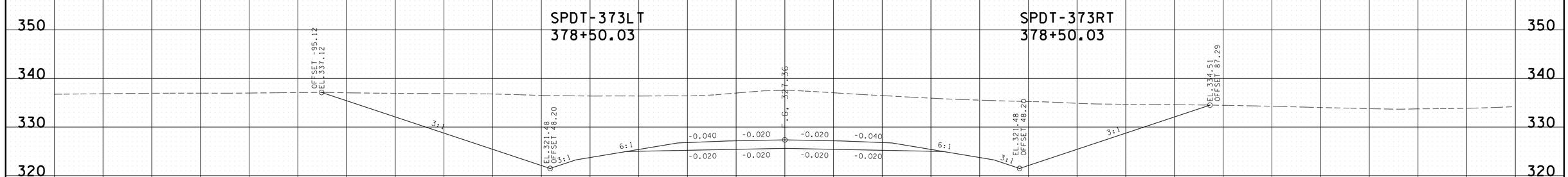
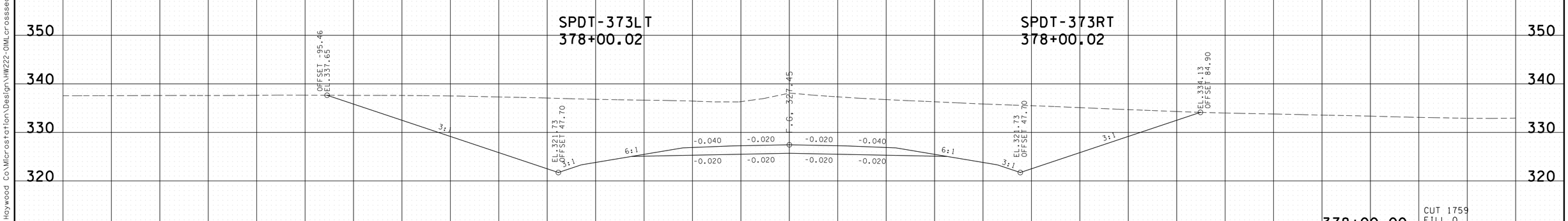
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	120
CONST.	2014	38016-3206-04	124







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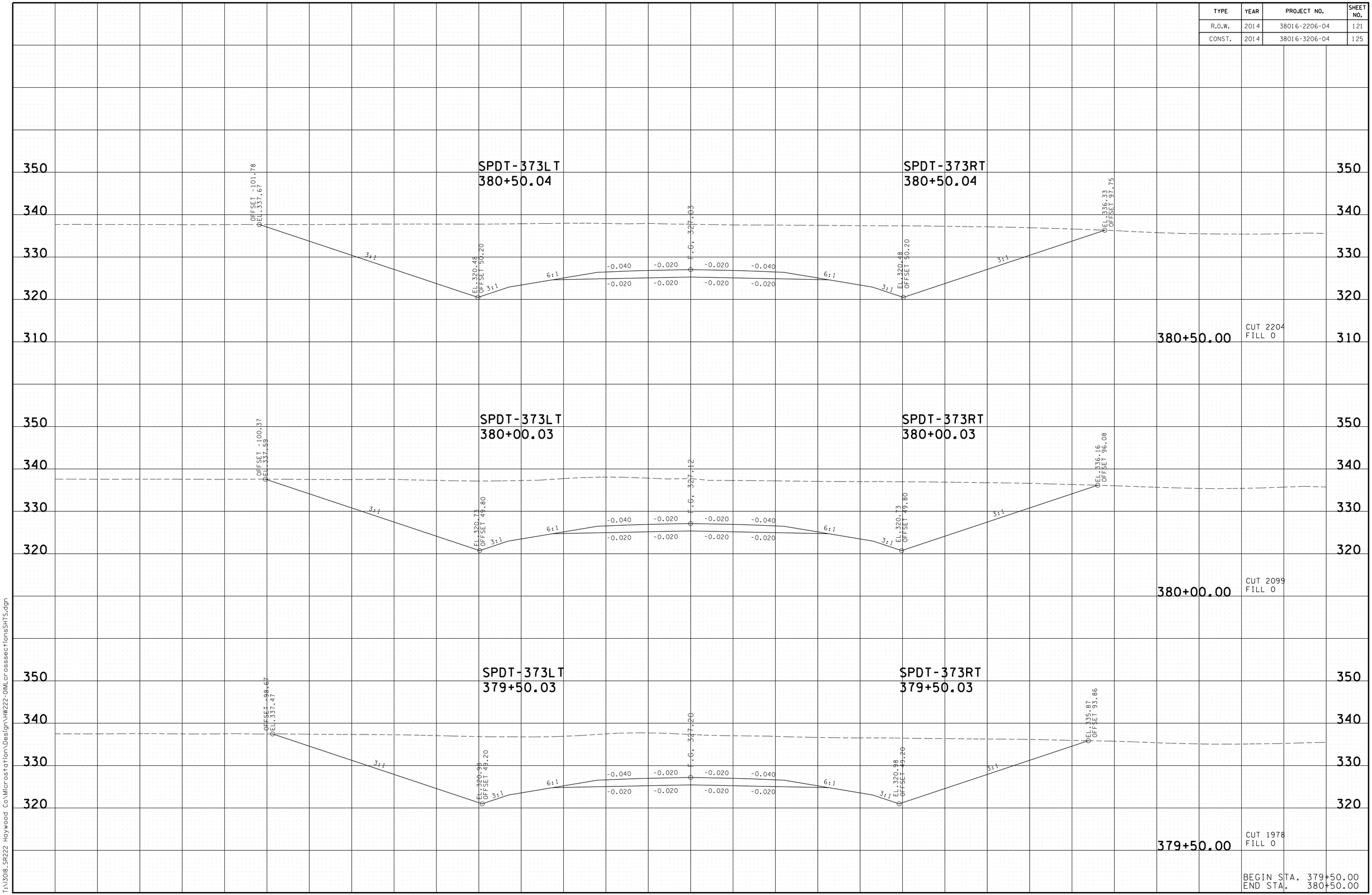
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	121
CONST.	2014	38016-3206-04	125



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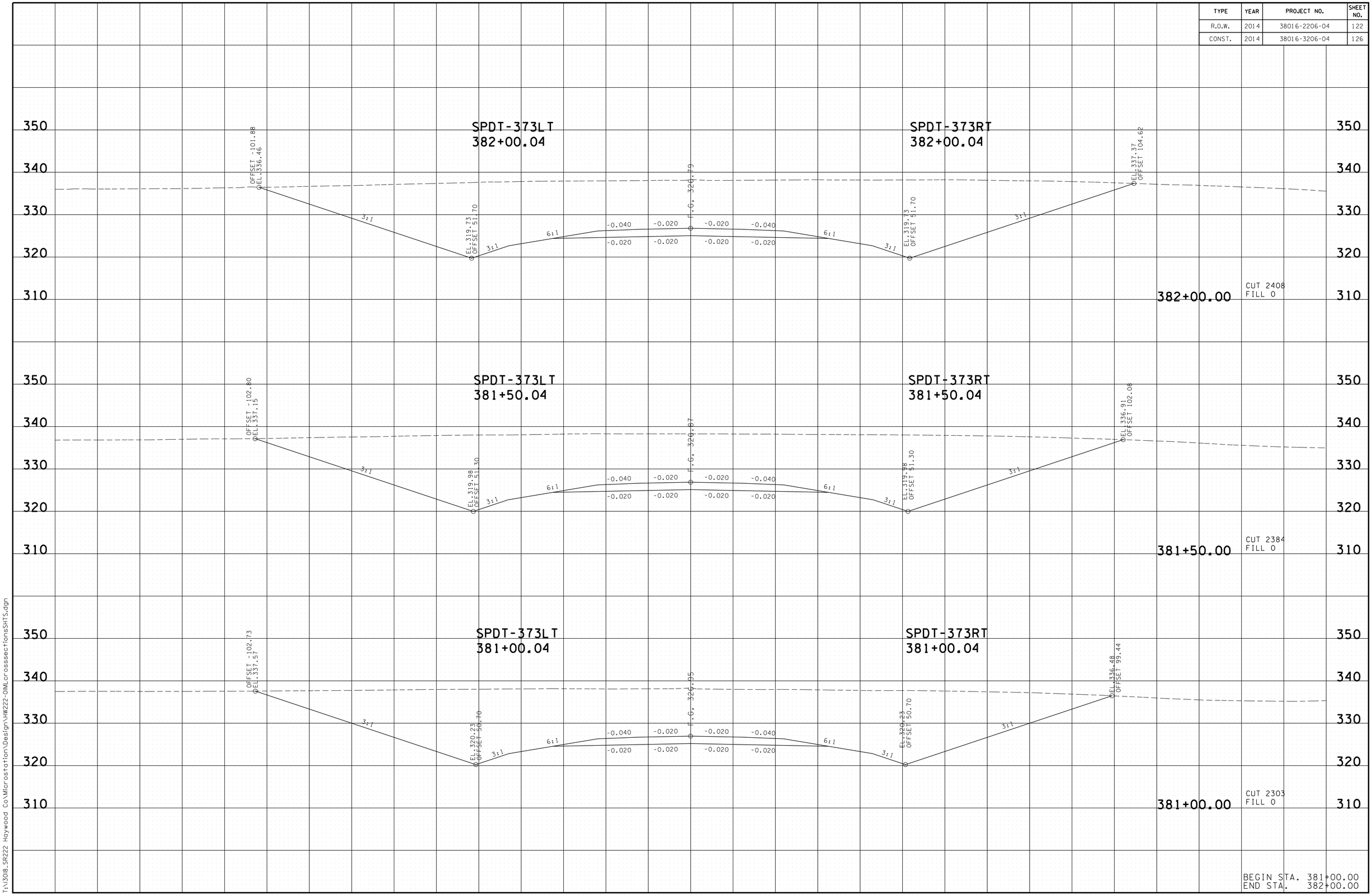
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	122
CONST.	2014	38016-3206-04	126



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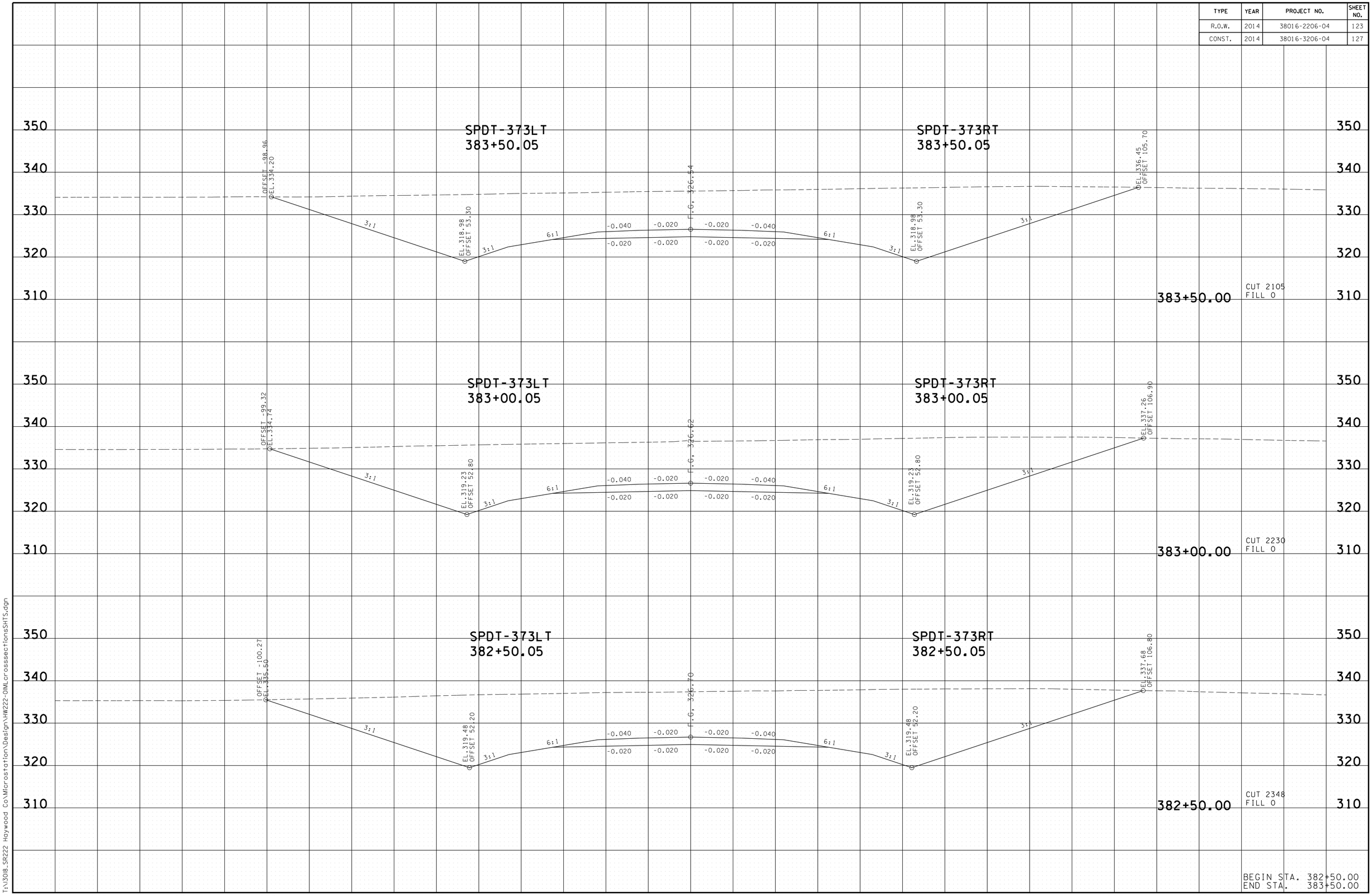
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	123
CONST.	2014	38016-3206-04	127



BEGIN STA. 382+50.00
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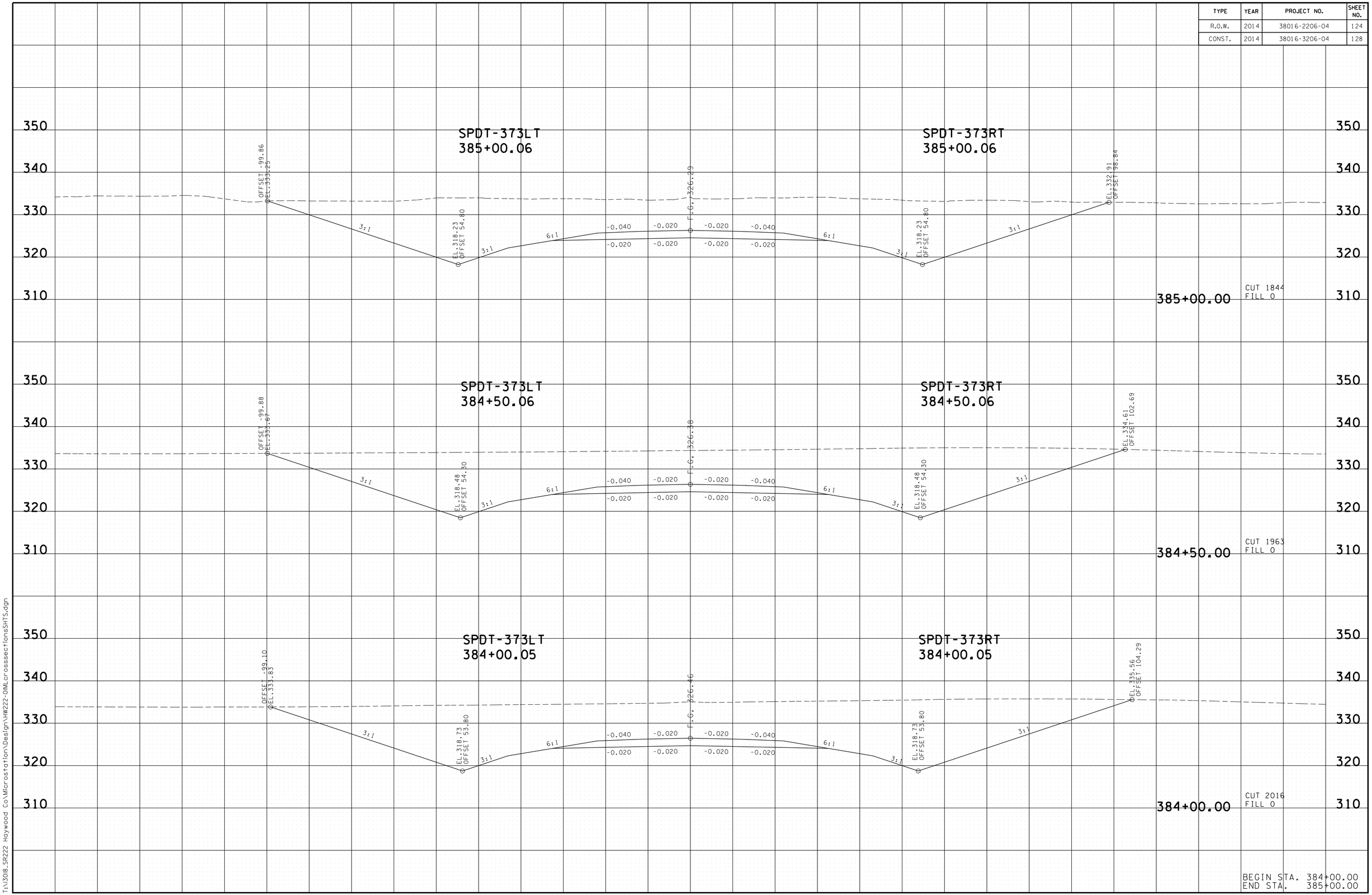
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	124
CONST.	2014	38016-3206-04	128



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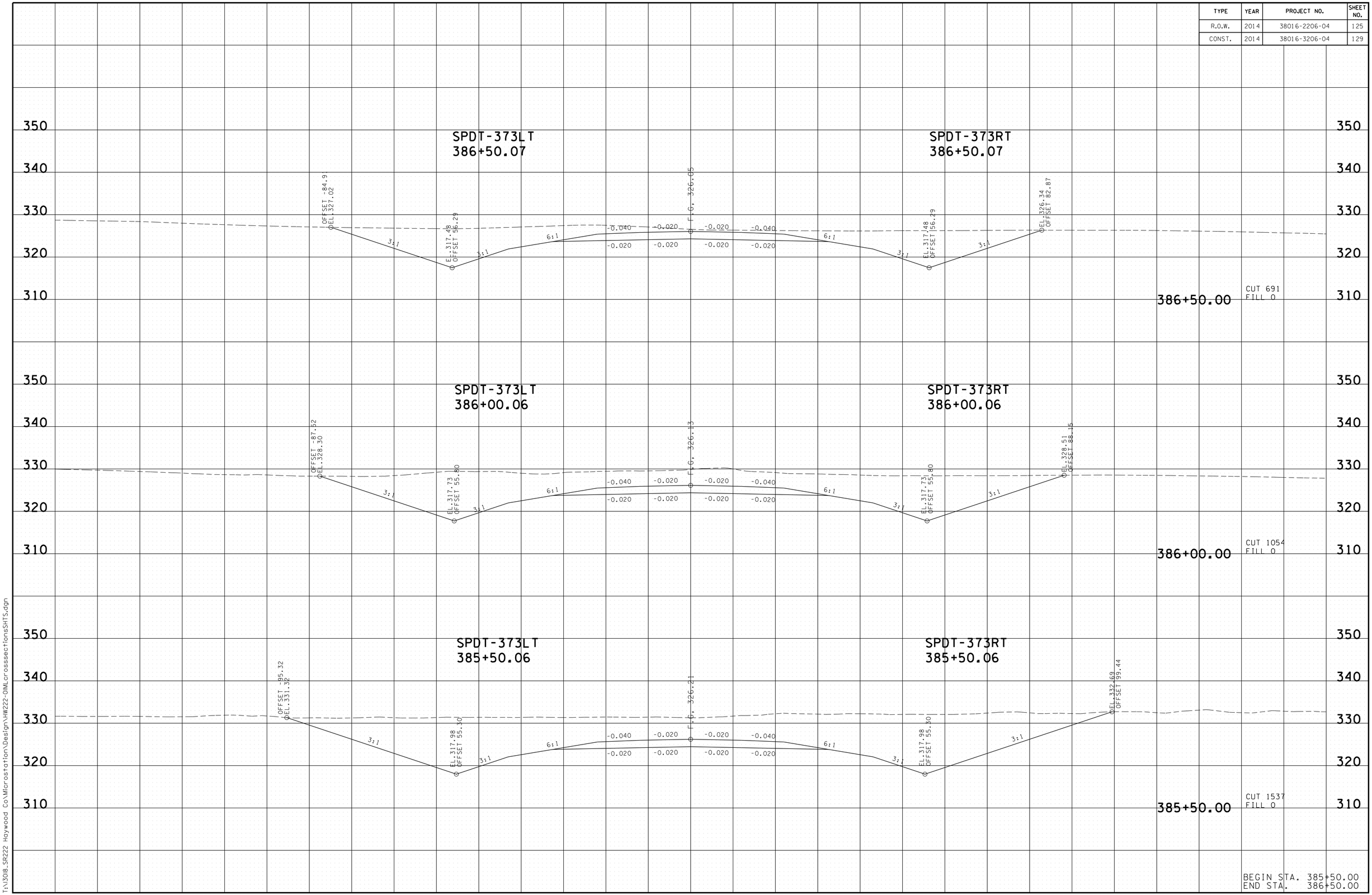
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	125
CONST.	2014	38016-3206-04	129



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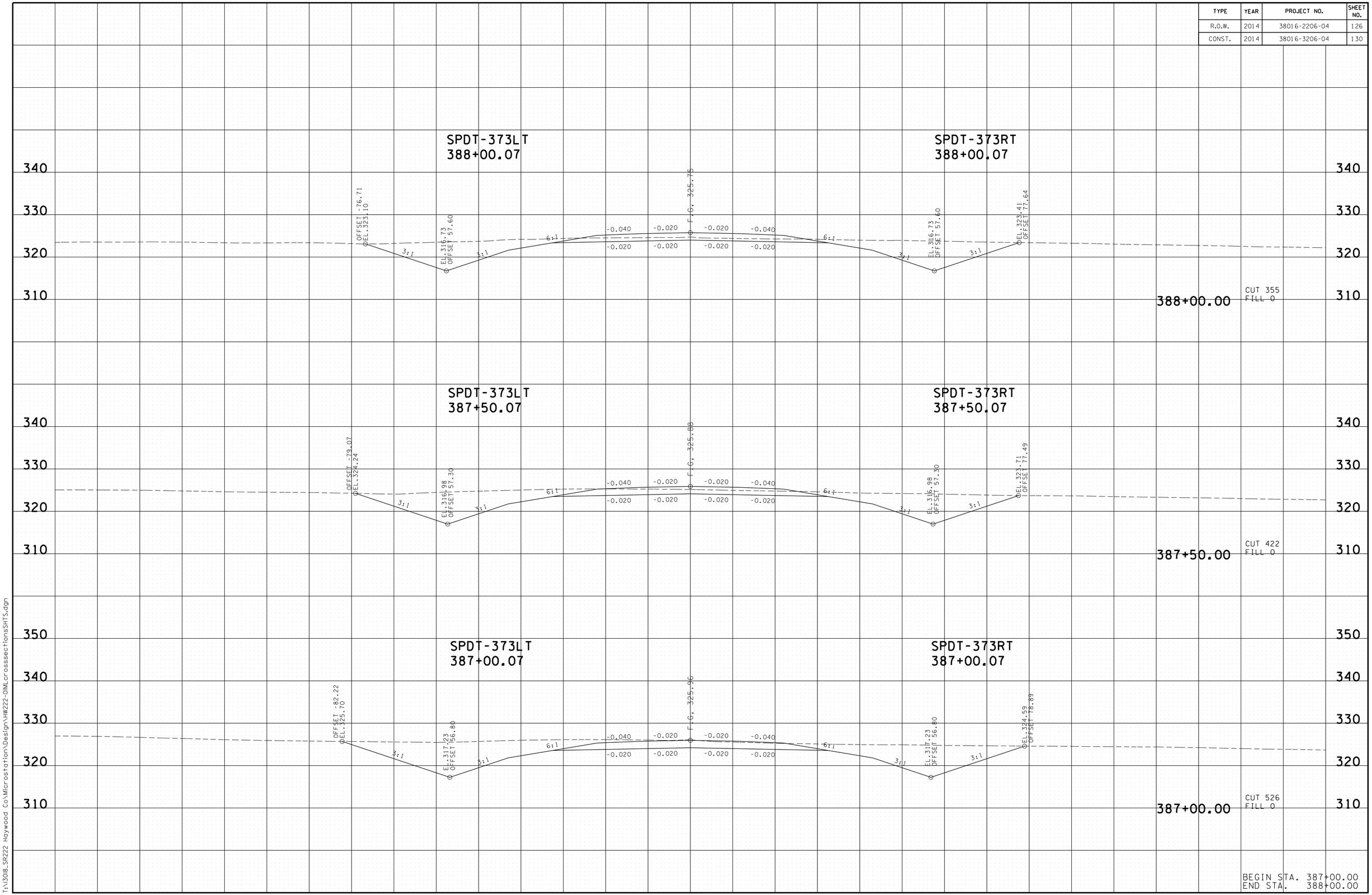
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	126
CONST.	2014	38016-3206-04	130



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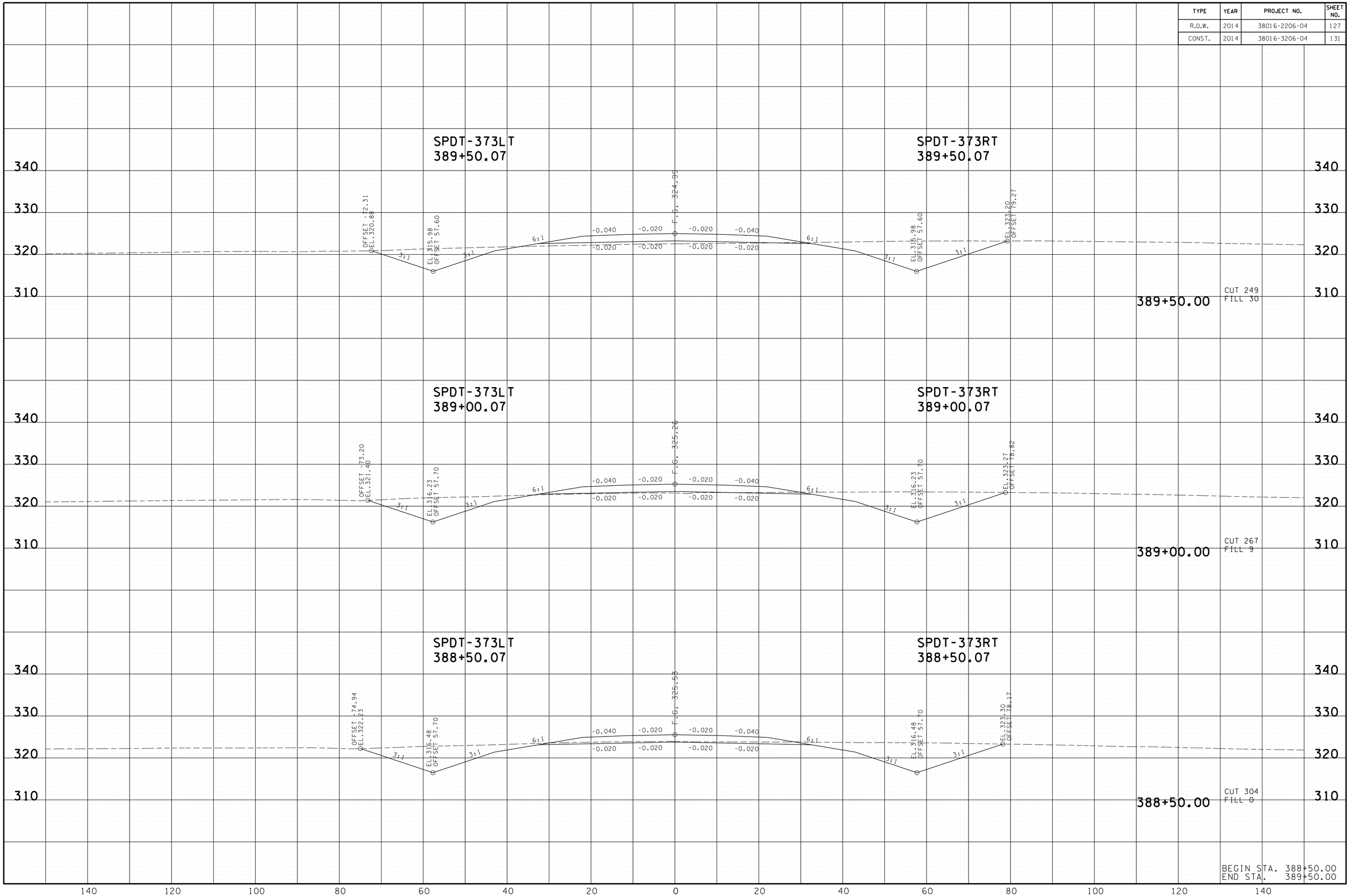
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	127
CONST.	2014	38016-3206-04	131



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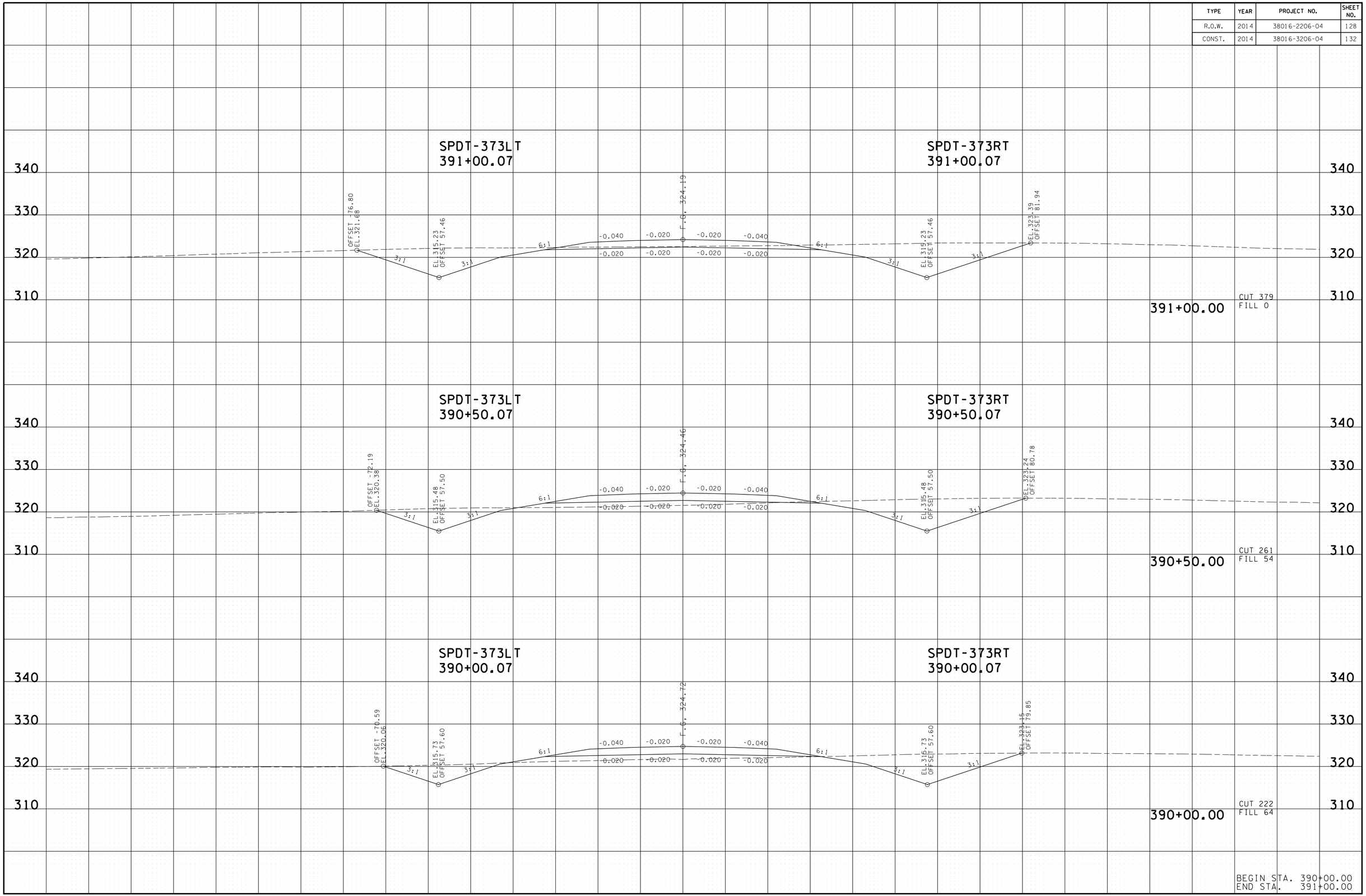
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	128
CONST.	2014	38016-3206-04	132



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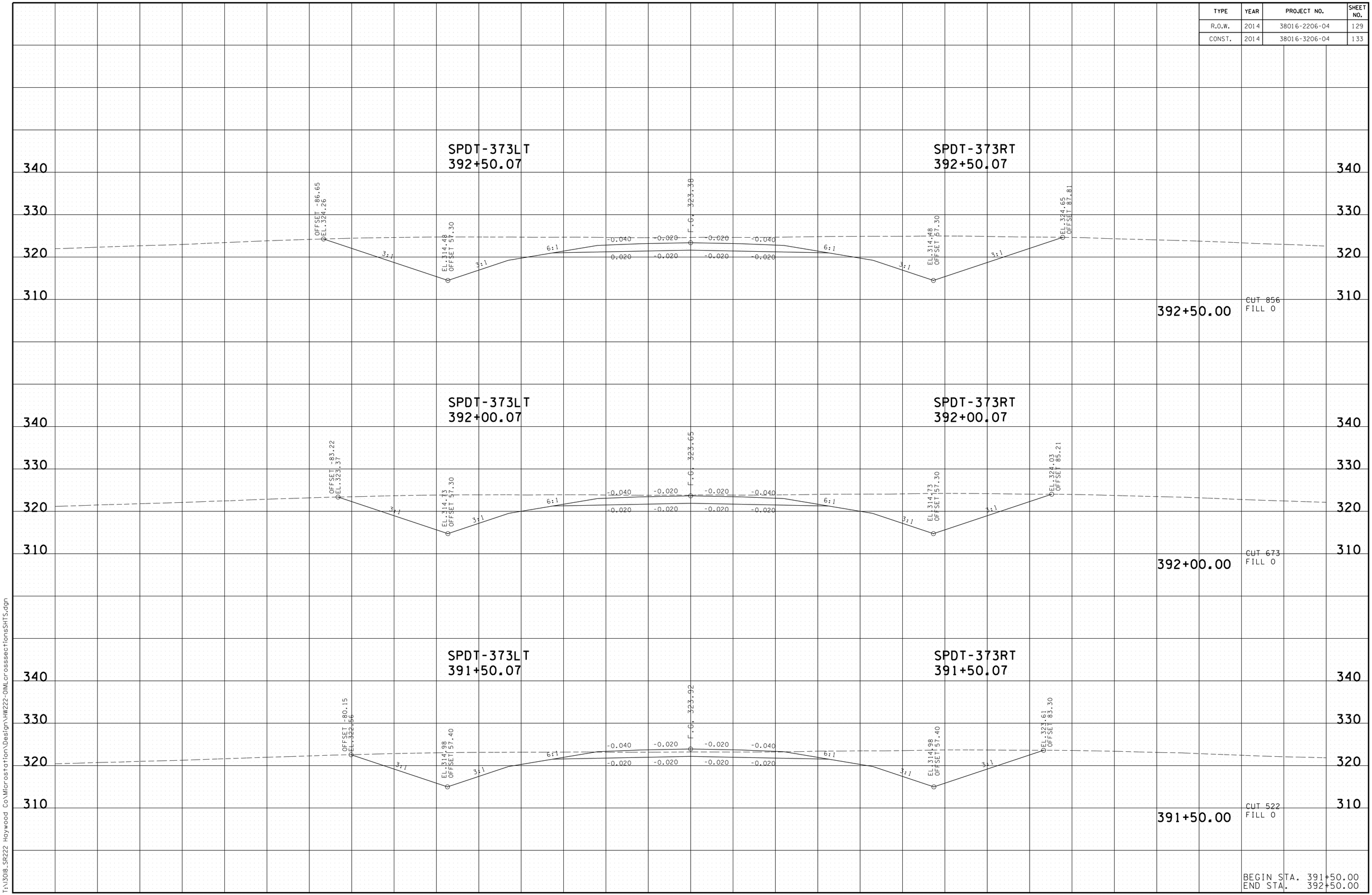
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	129
CONST.	2014	38016-3206-04	133



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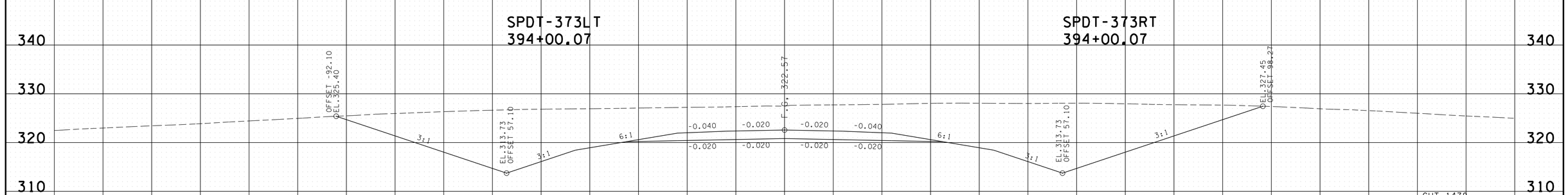
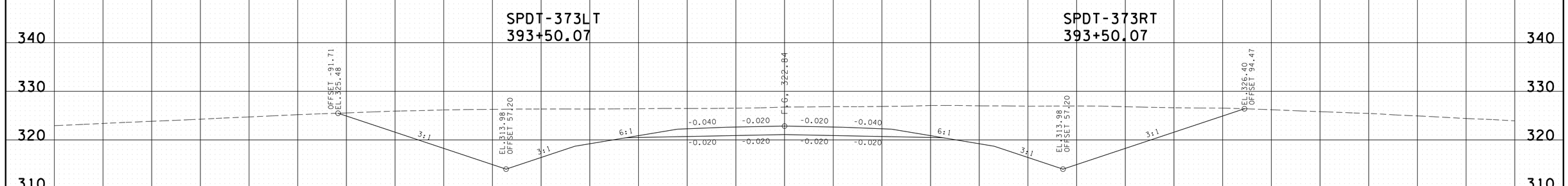
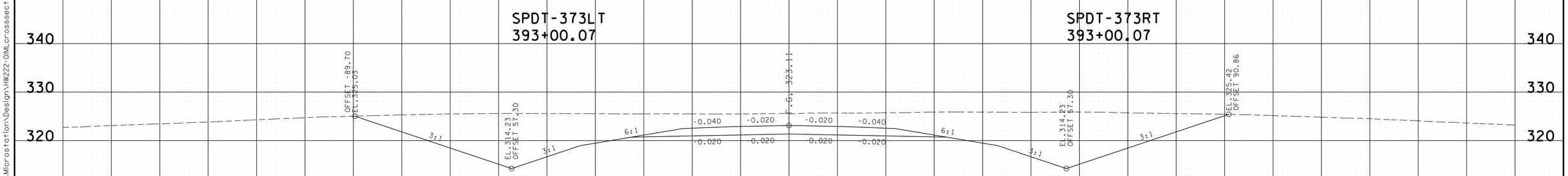
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	130
CONST.	2014	38016-3206-04	134







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

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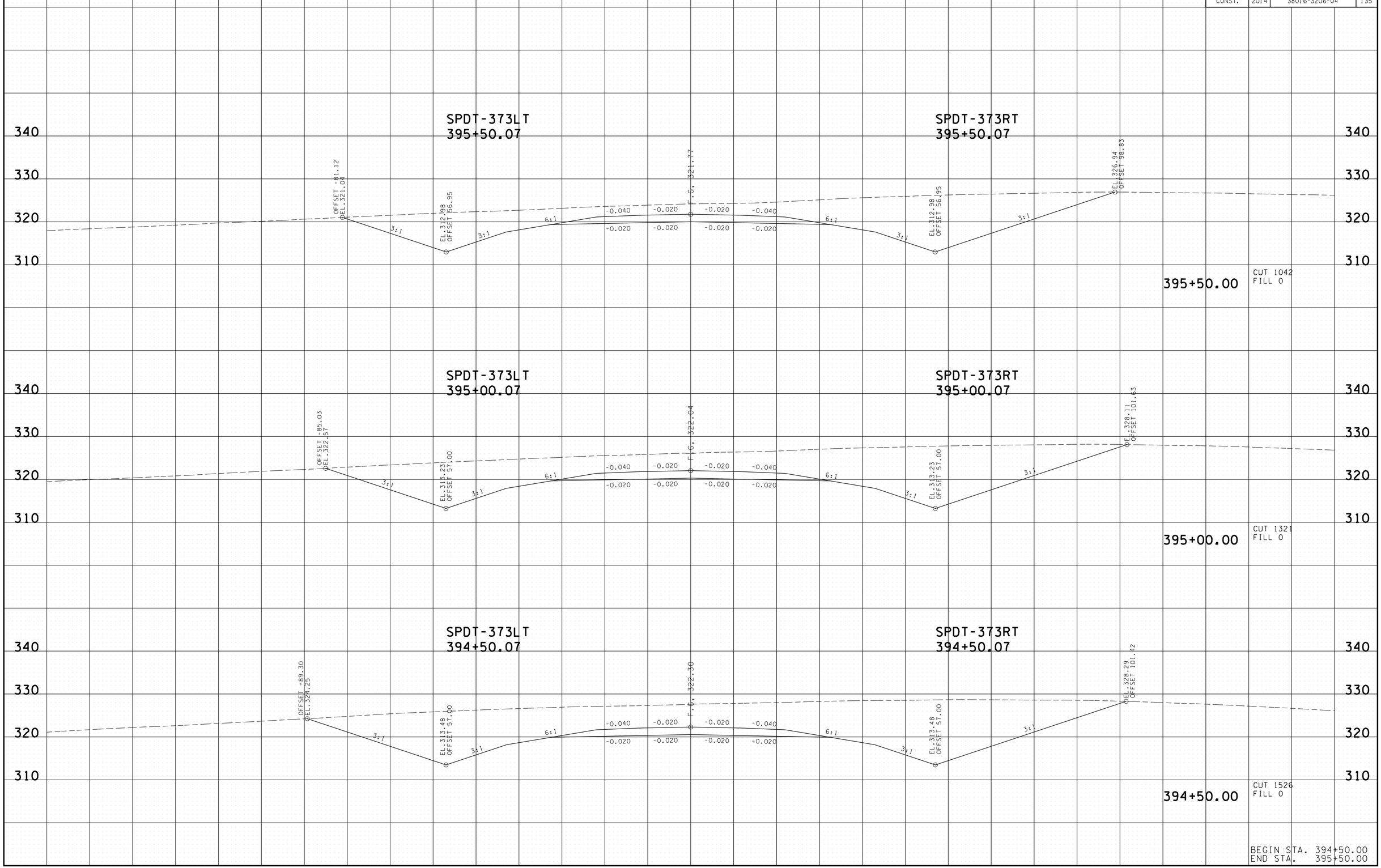
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	131
CONST.	2014	38016-3206-04	135



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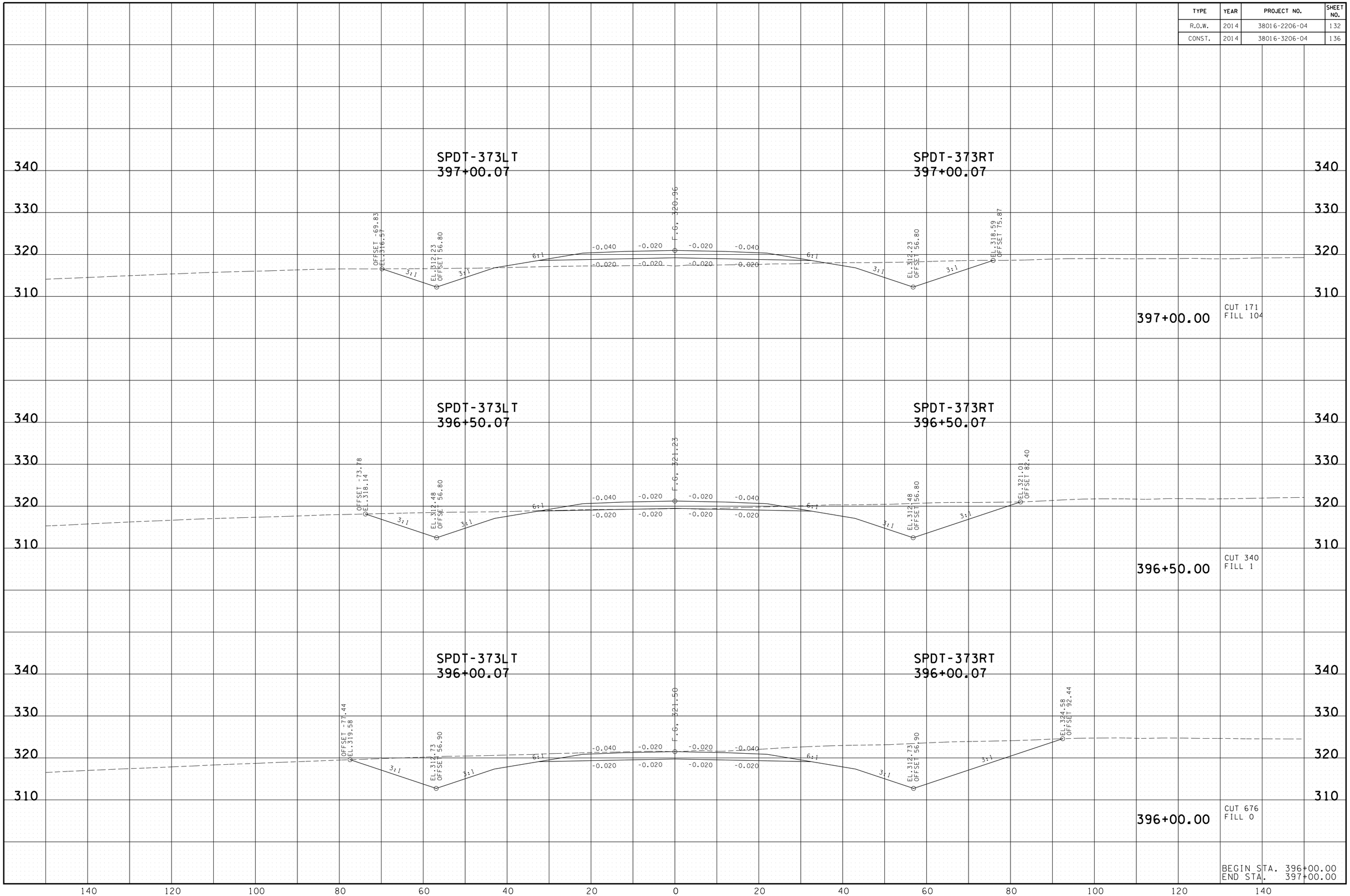
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	132
CONST.	2014	38016-3206-04	136



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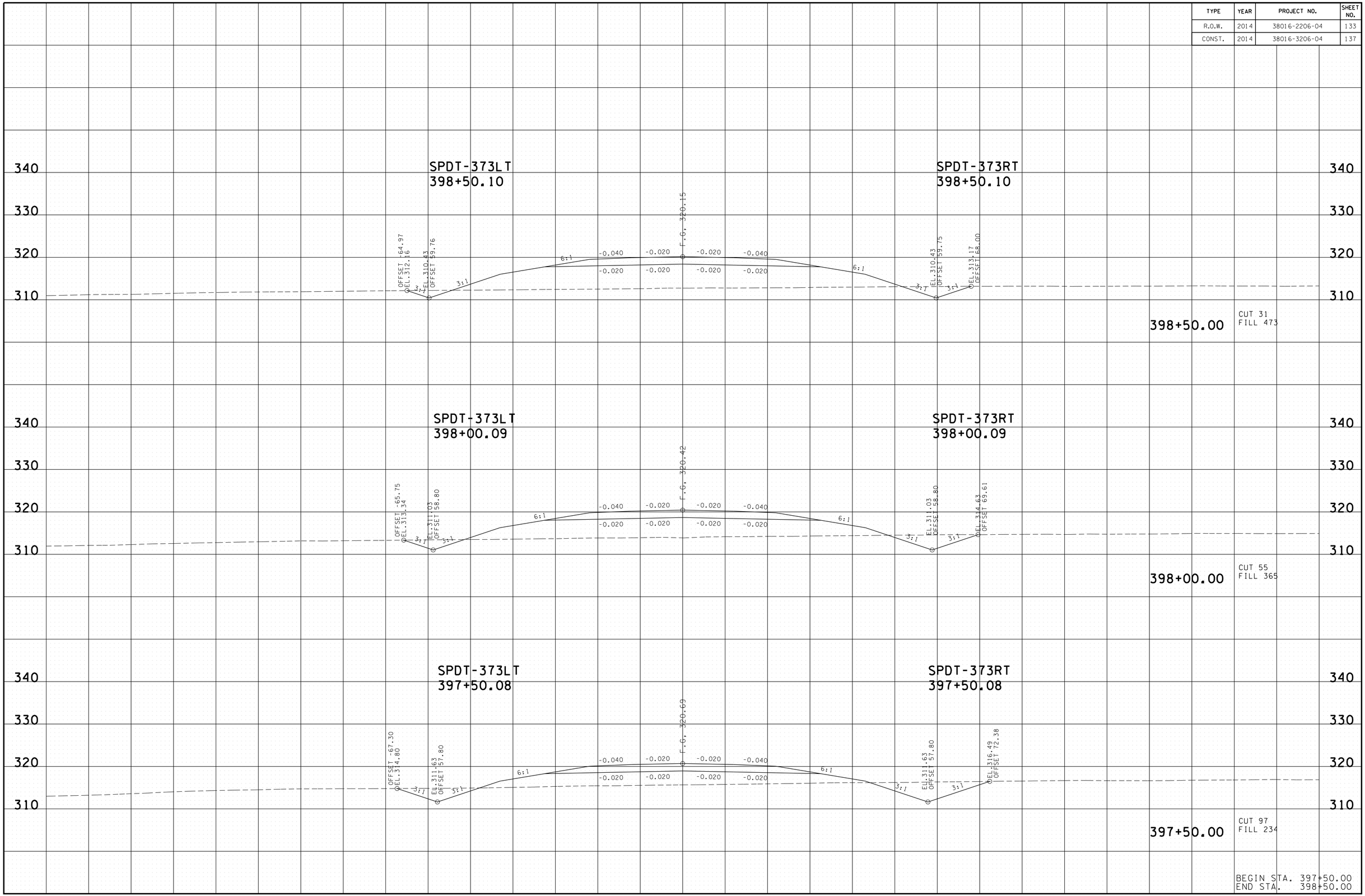
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	133
CONST.	2014	38016-3206-04	137



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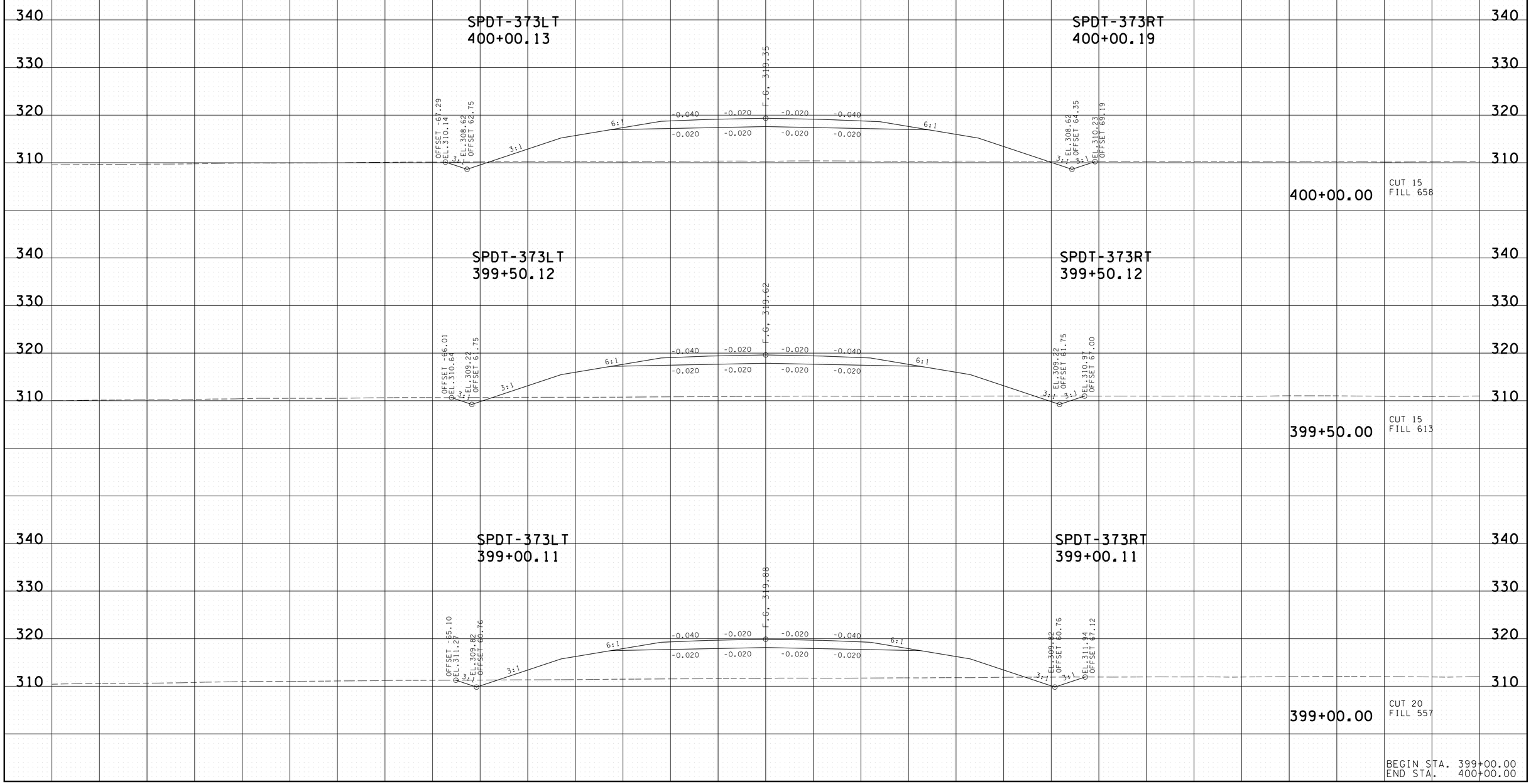
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	134
CONST.	2014	38016-3206-04	138



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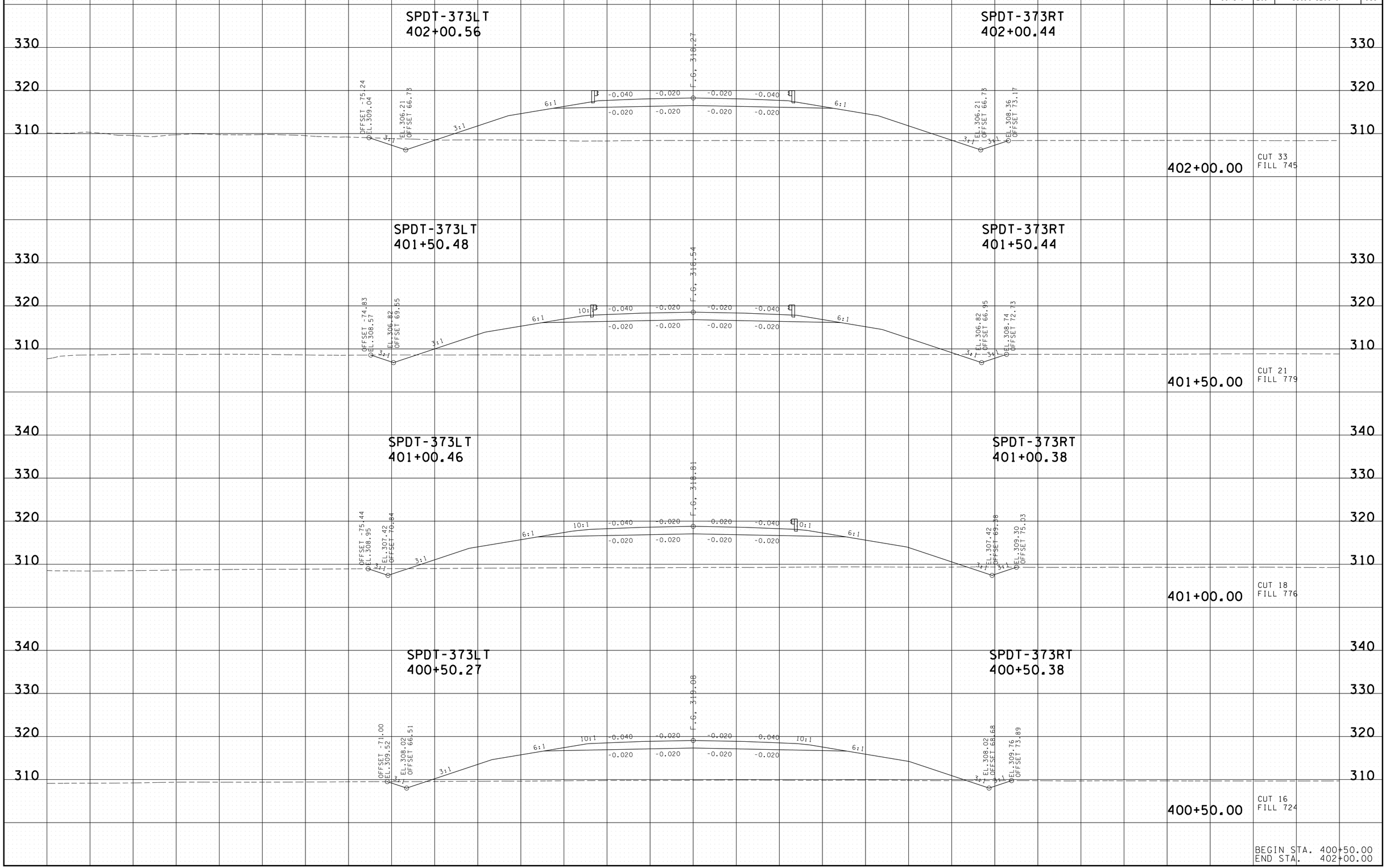
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	135
CONST.	2014	38016-3206-04	139



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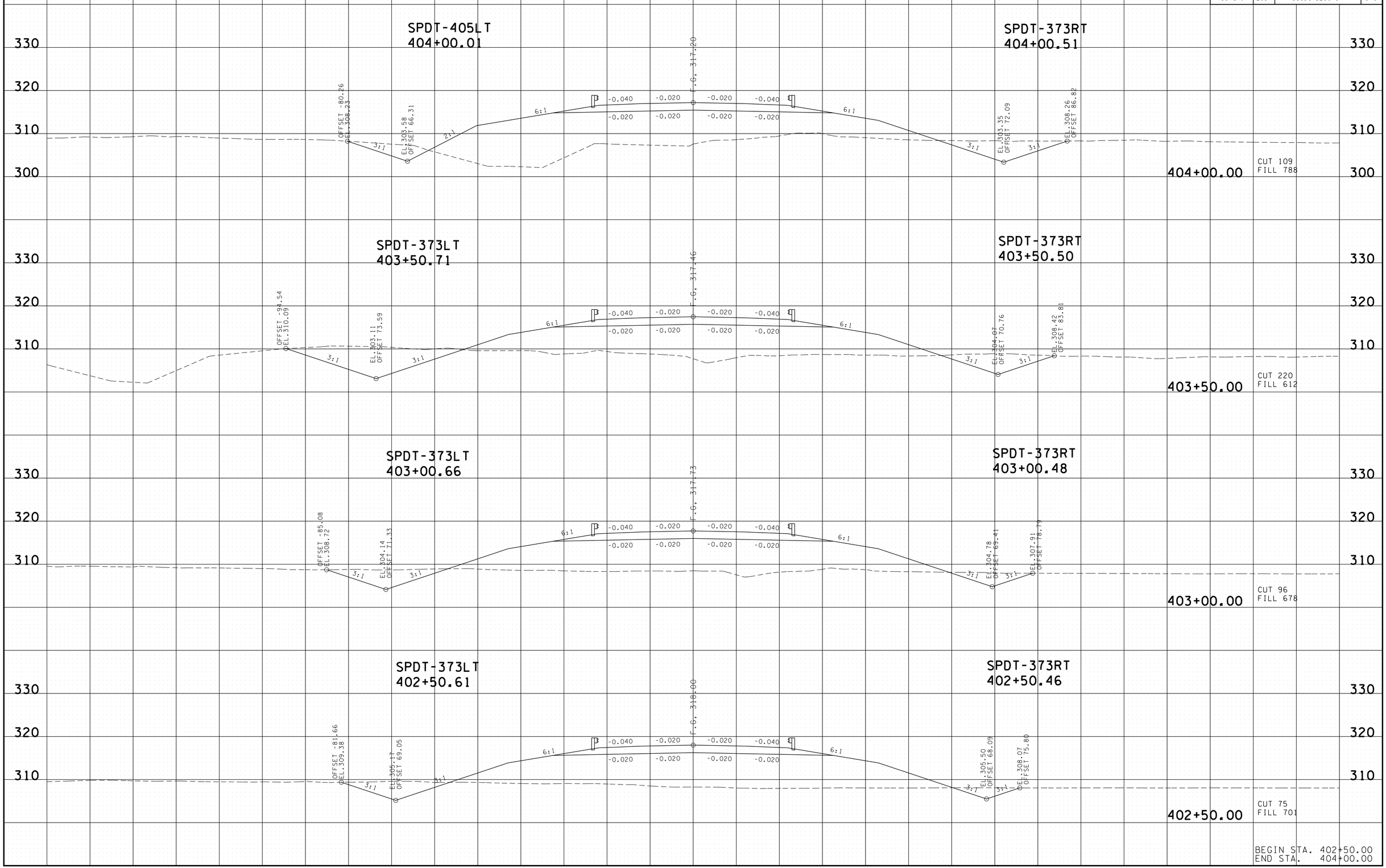
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	136
CONST.	2014	38016-3206-04	140



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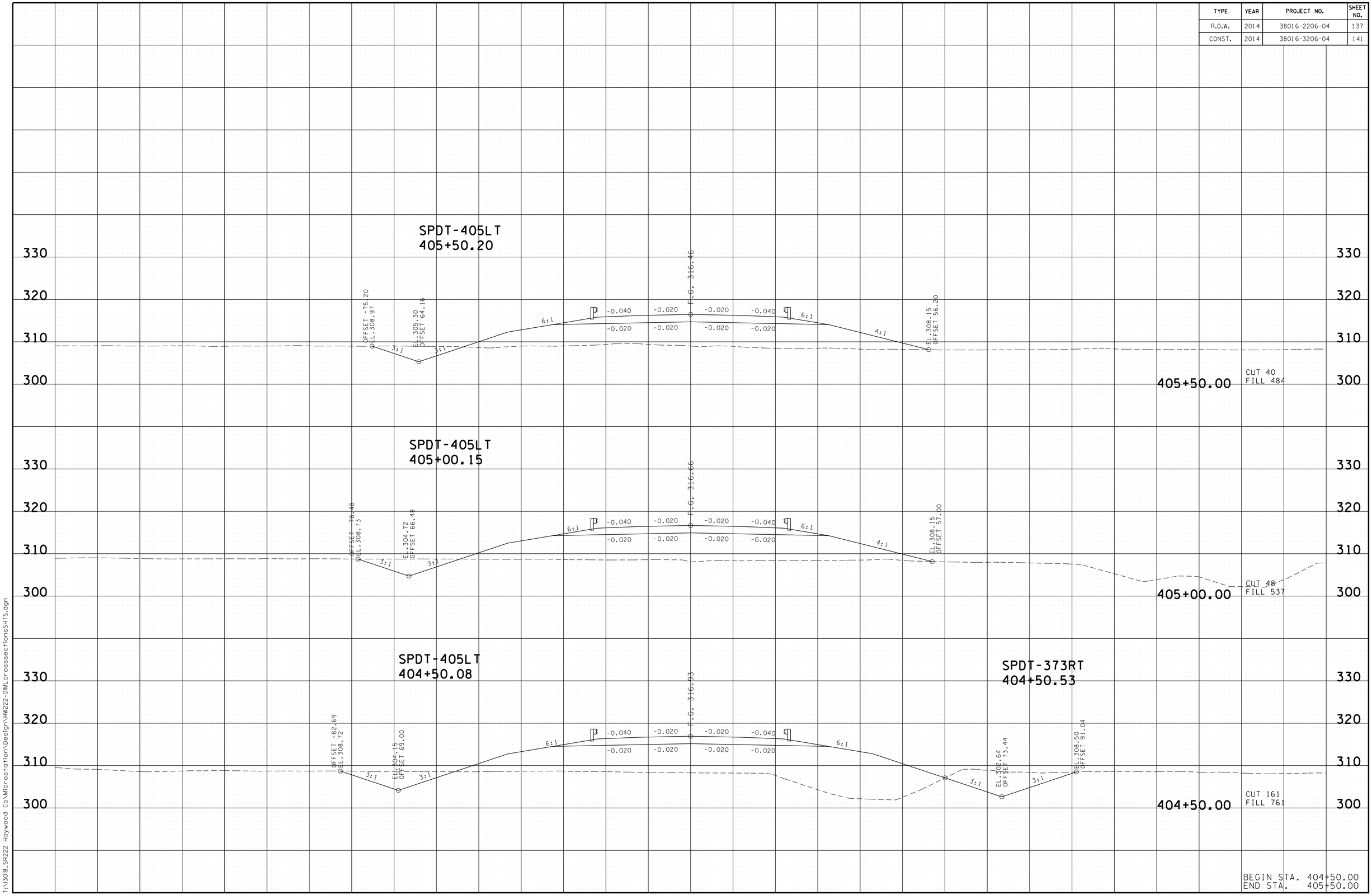
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	137
CONST.	2014	38016-3206-04	141



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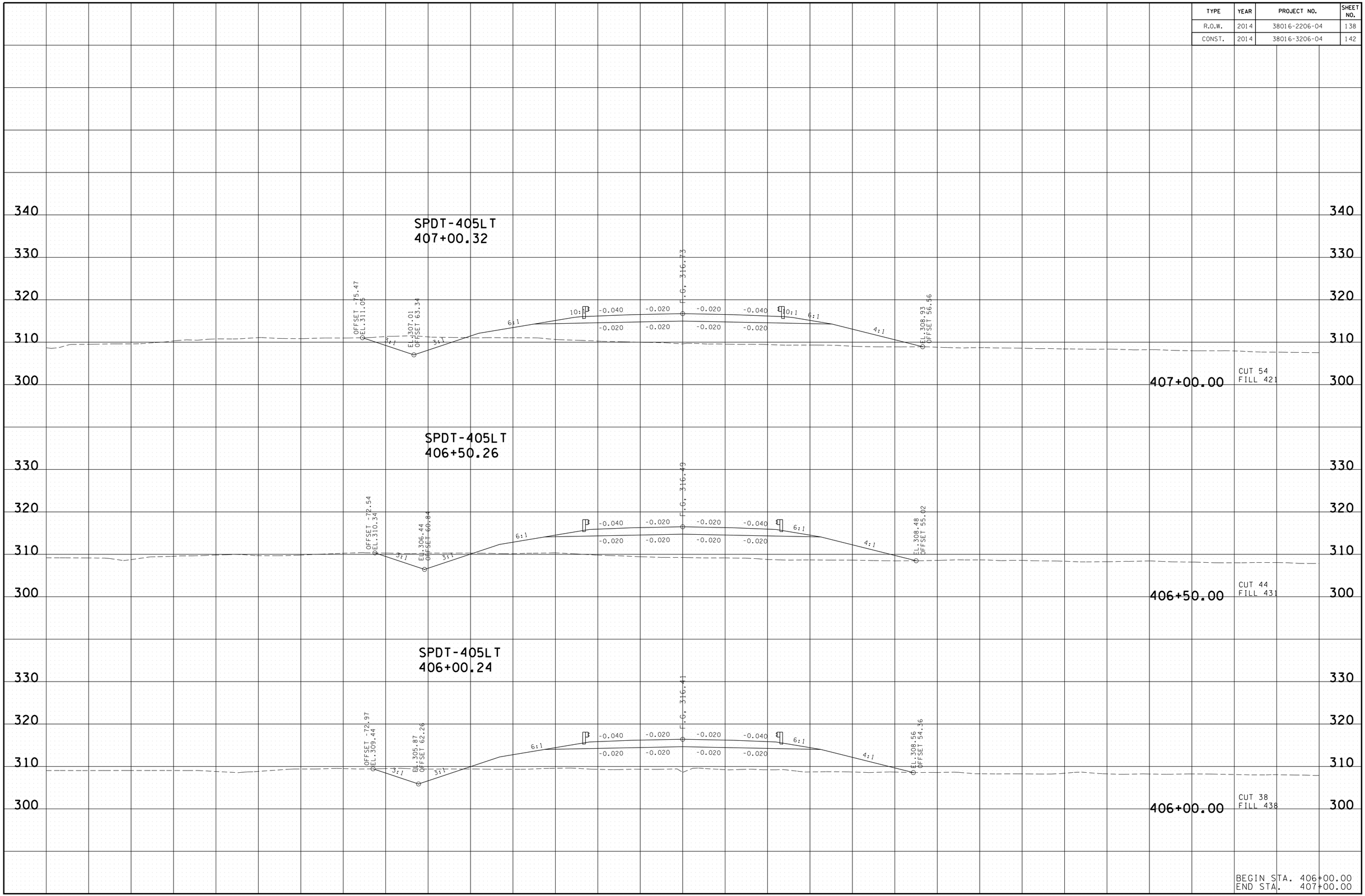
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	138
CONST.	2014	38016-3206-04	142



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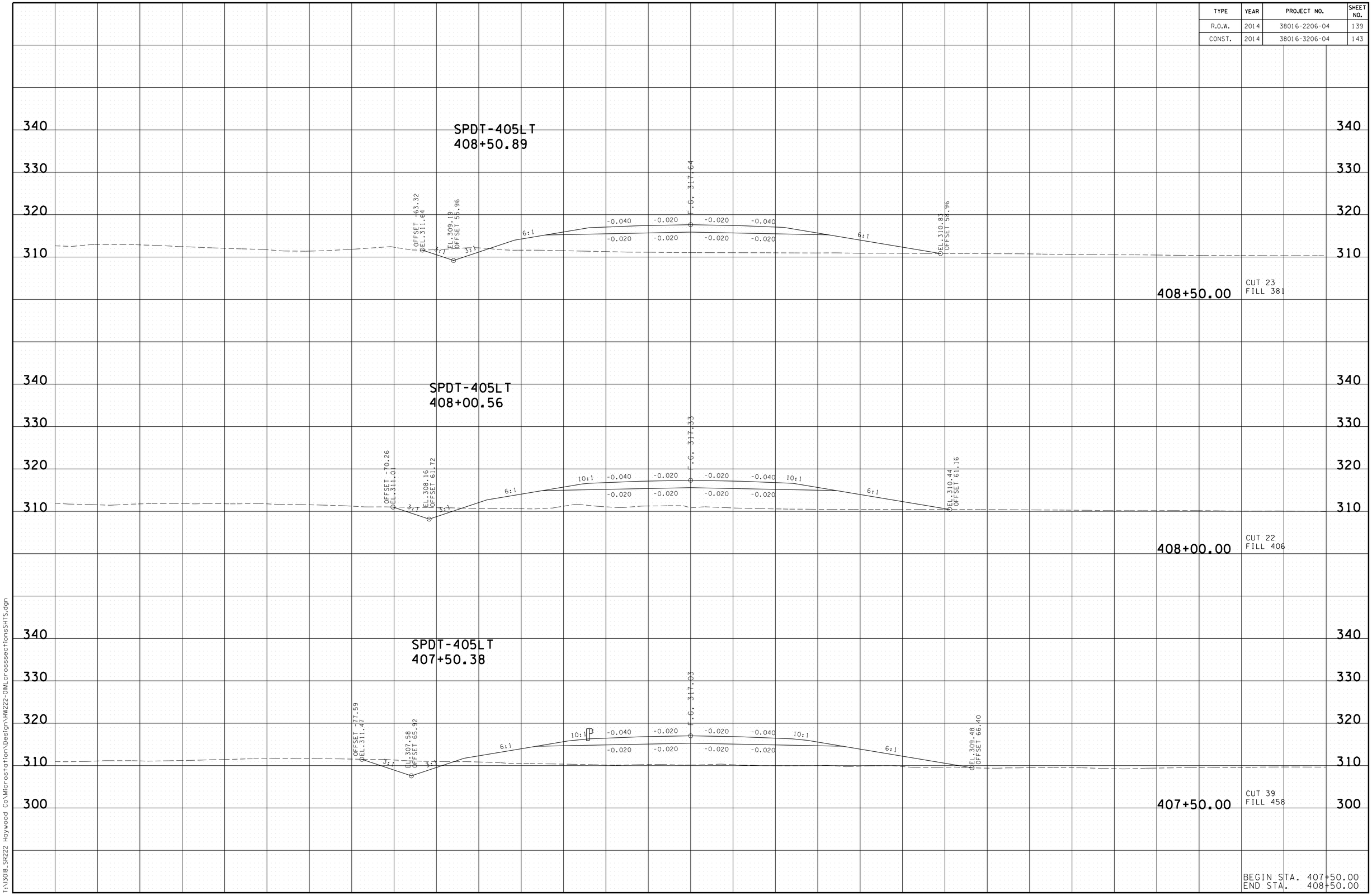
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	139
CONST.	2014	38016-3206-04	143



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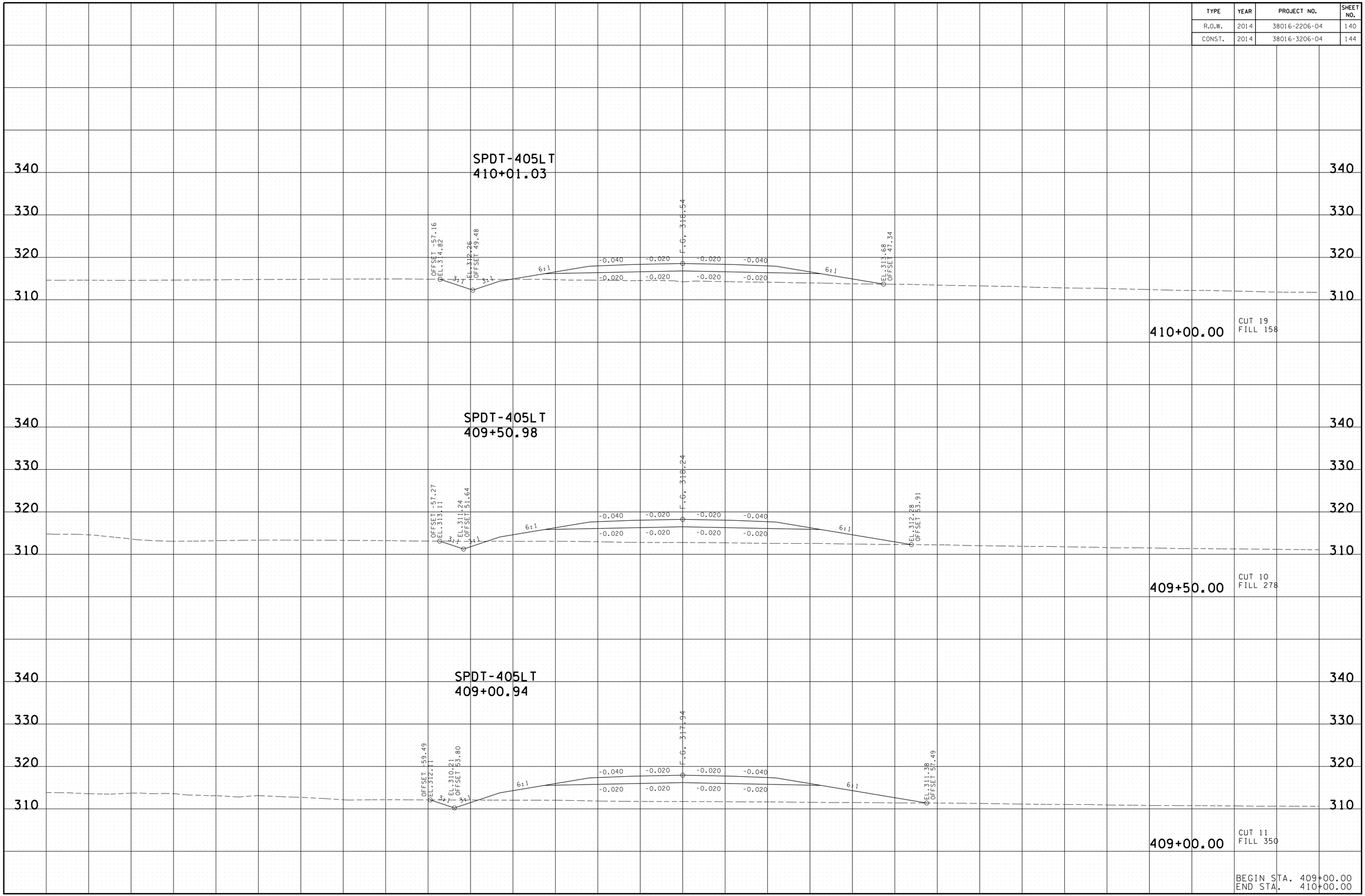
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	140
CONST.	2014	38016-3206-04	144



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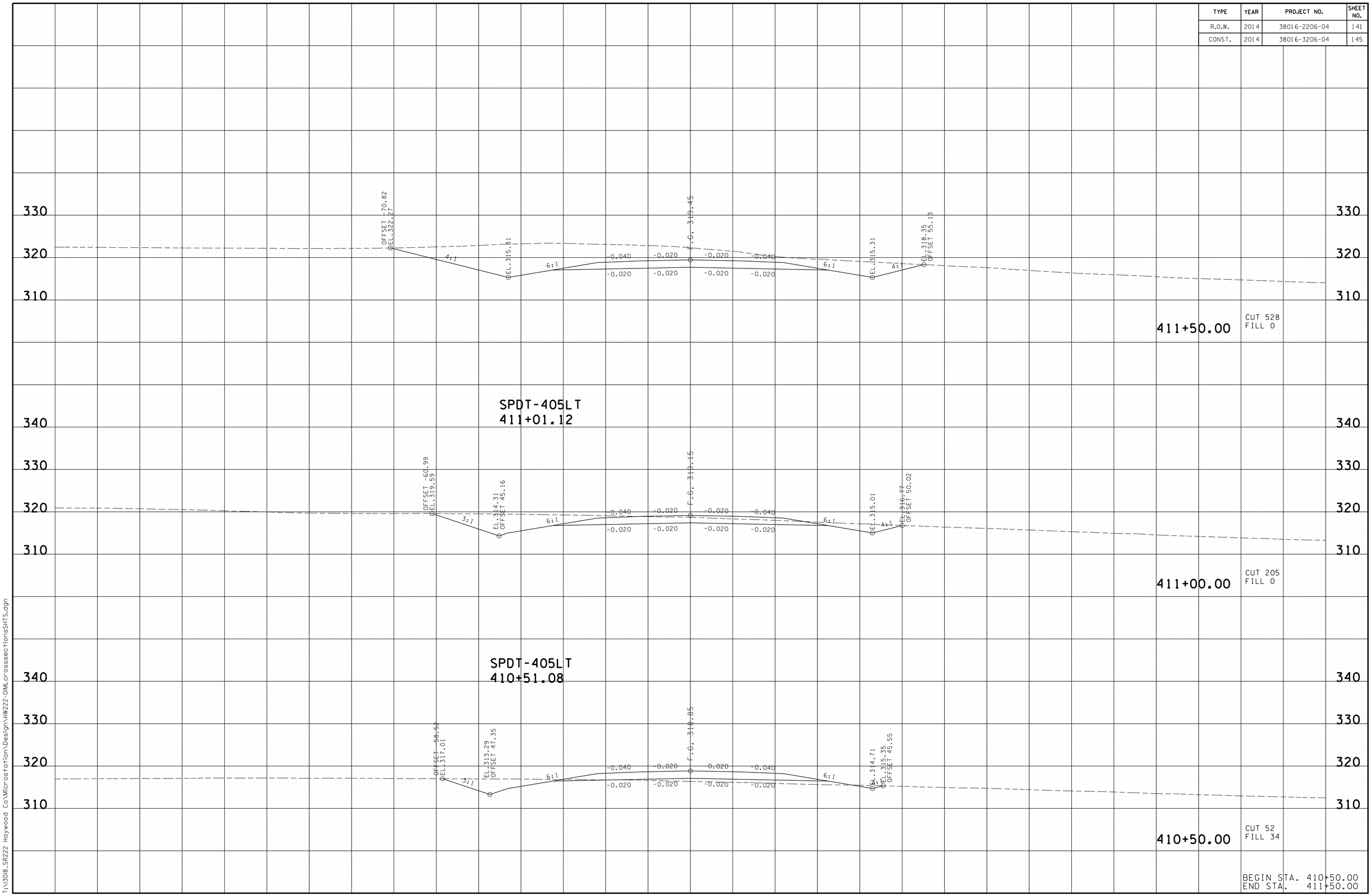
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	141
CONST.	2014	38016-3206-04	145



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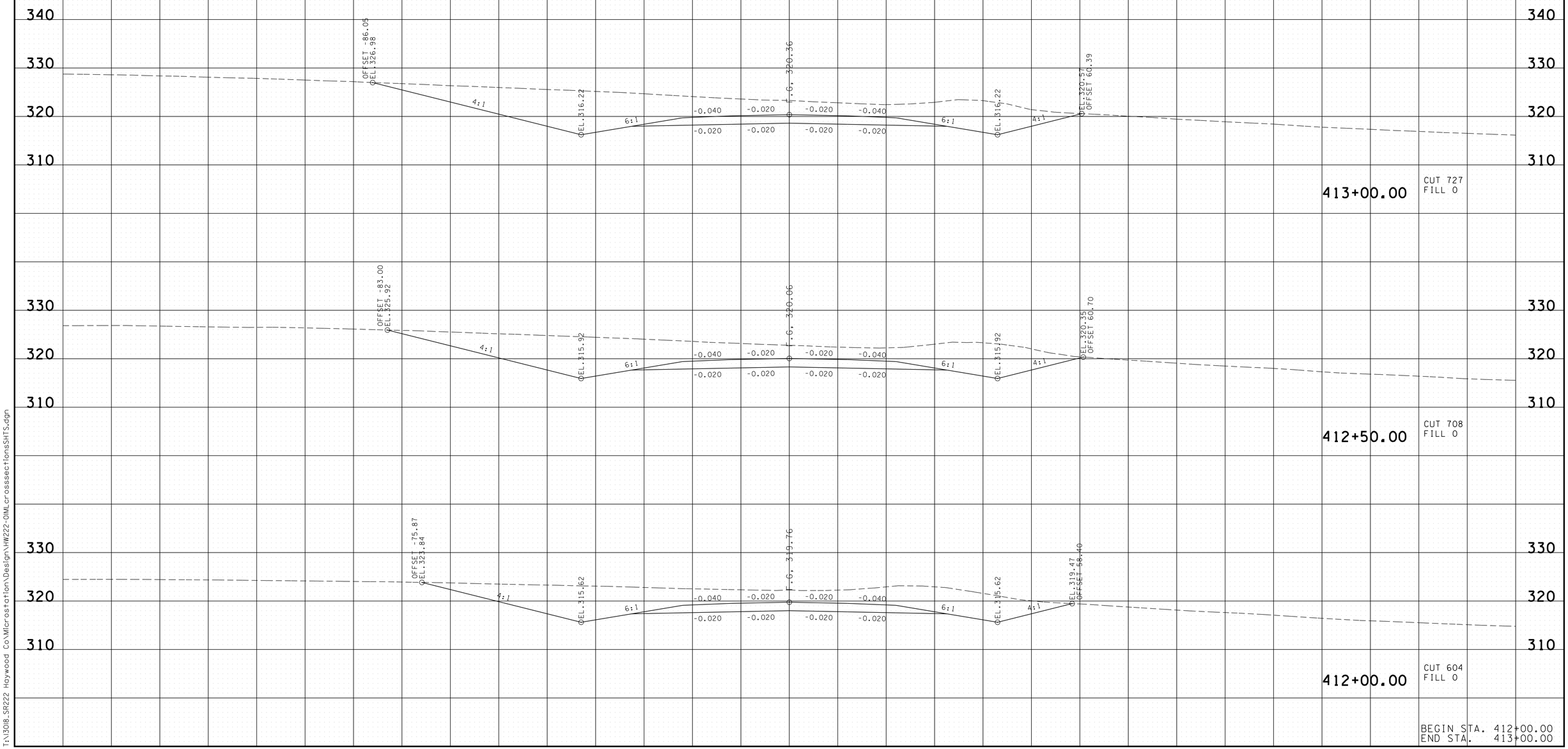
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	142
CONST.	2014	38016-3206-04	146



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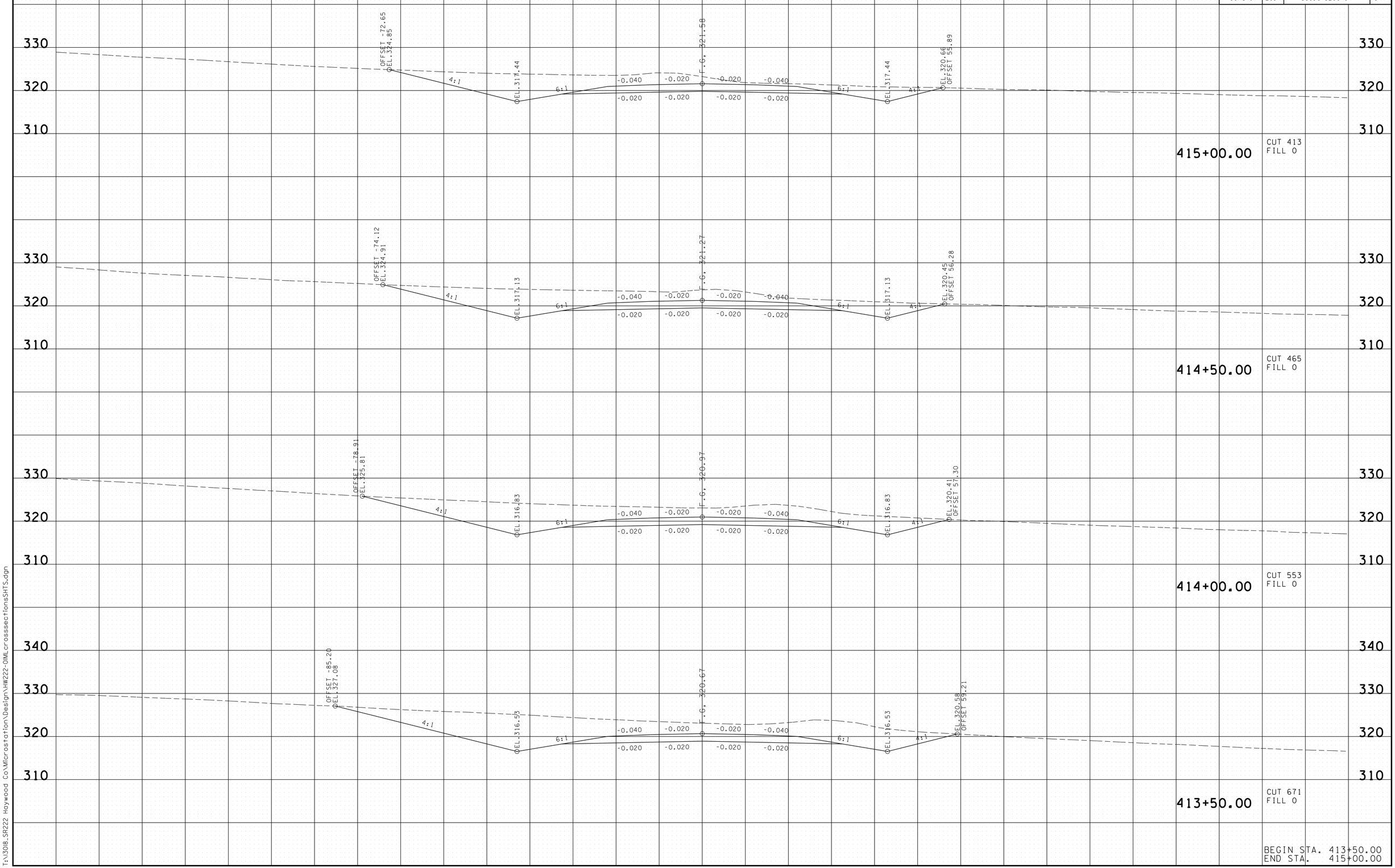
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	143
CONST.	2014	38016-3206-04	147



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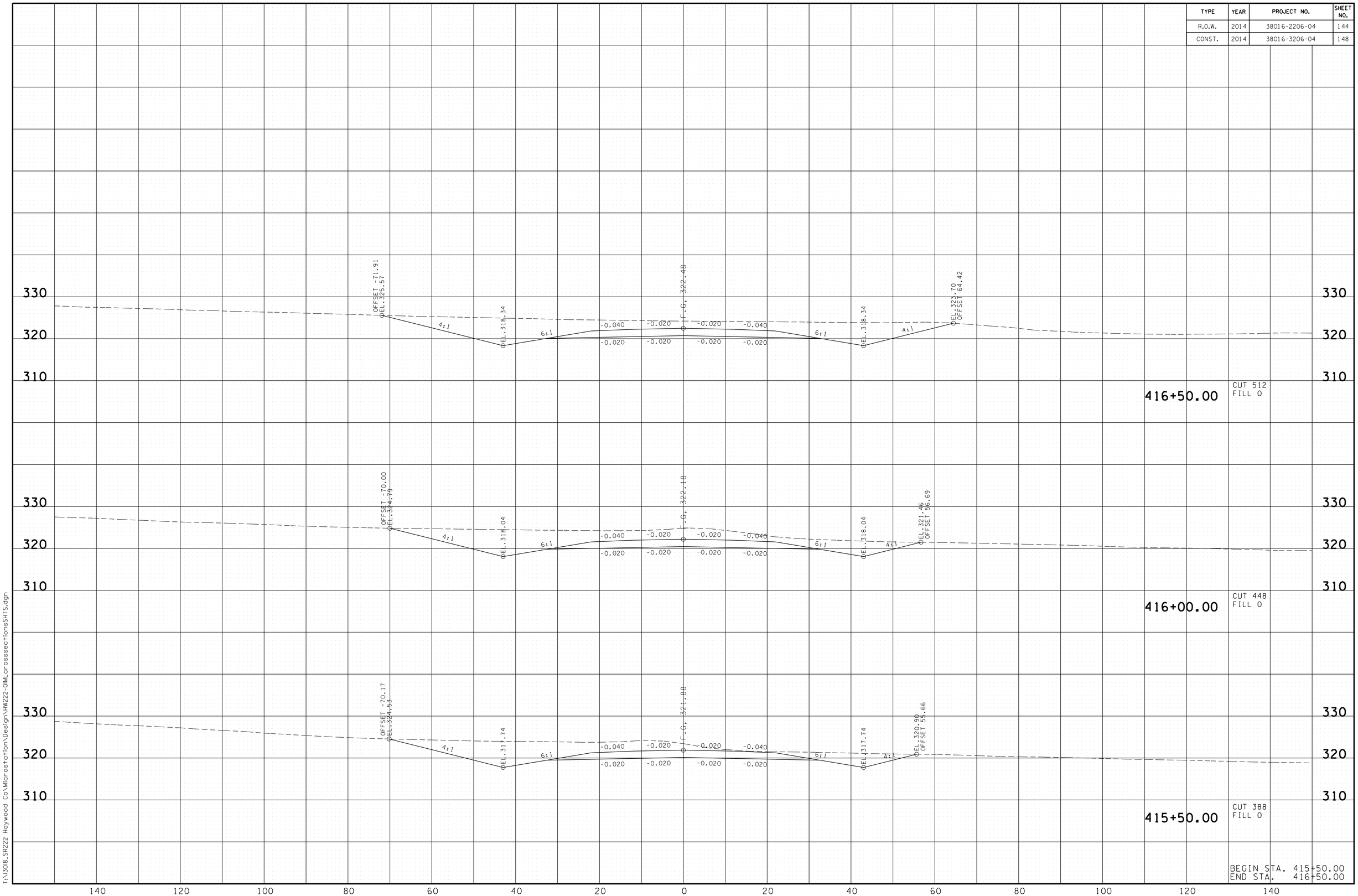
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	144
CONST.	2014	38016-3206-04	148



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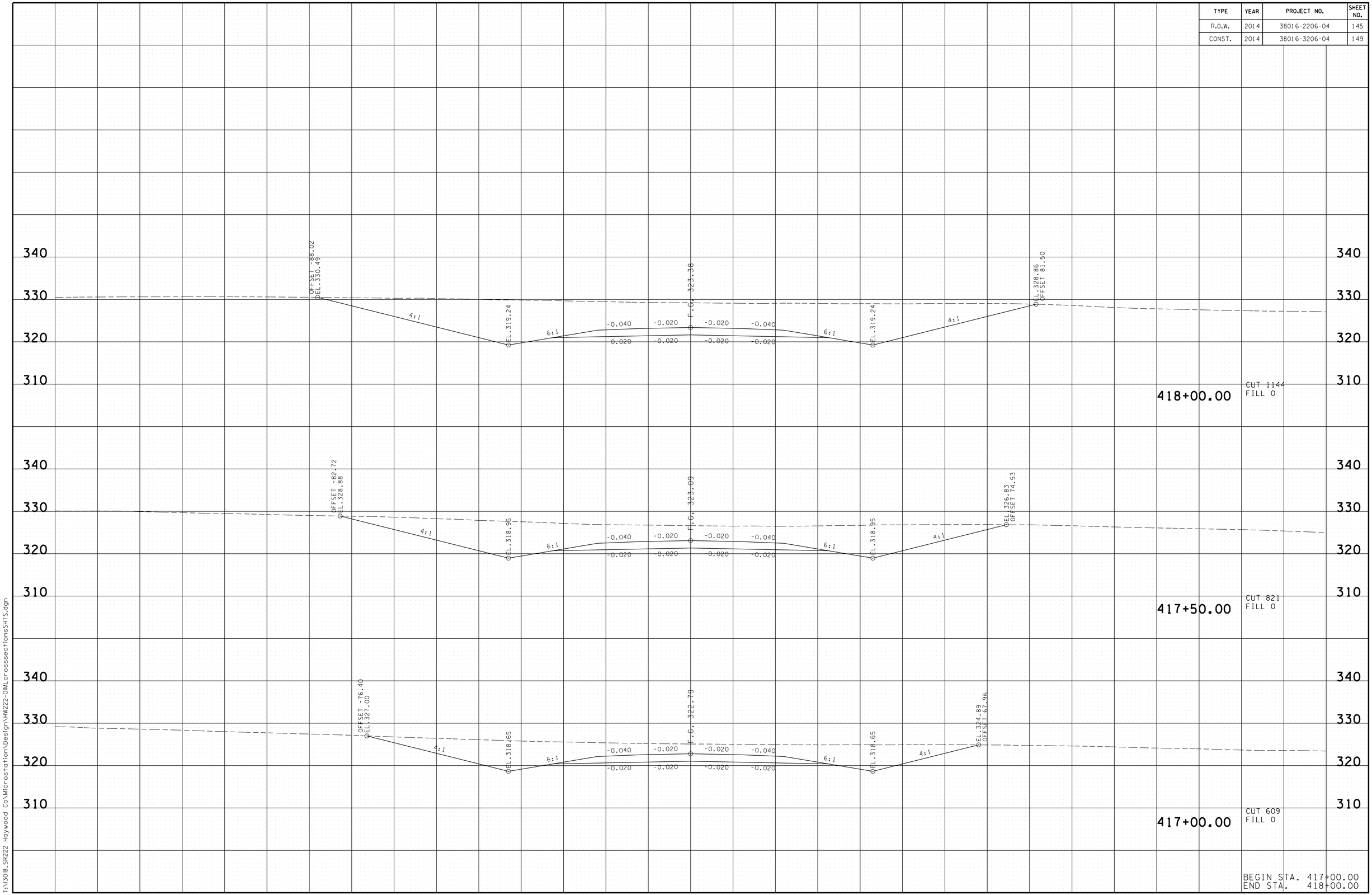
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	145
CONST.	2014	38016-3206-04	149



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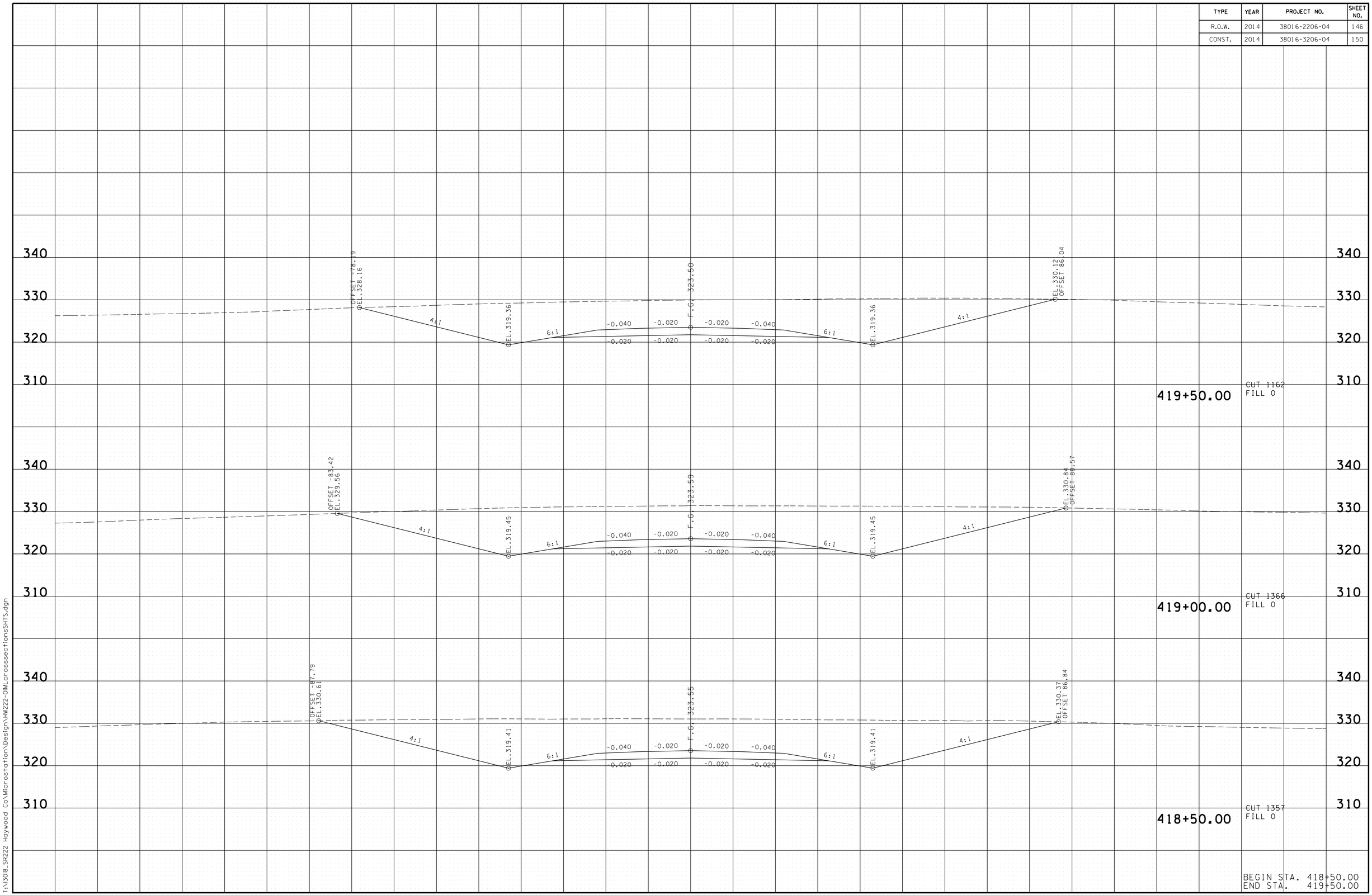
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	146
CONST.	2014	38016-3206-04	150



BEGIN STA. 418+50.00
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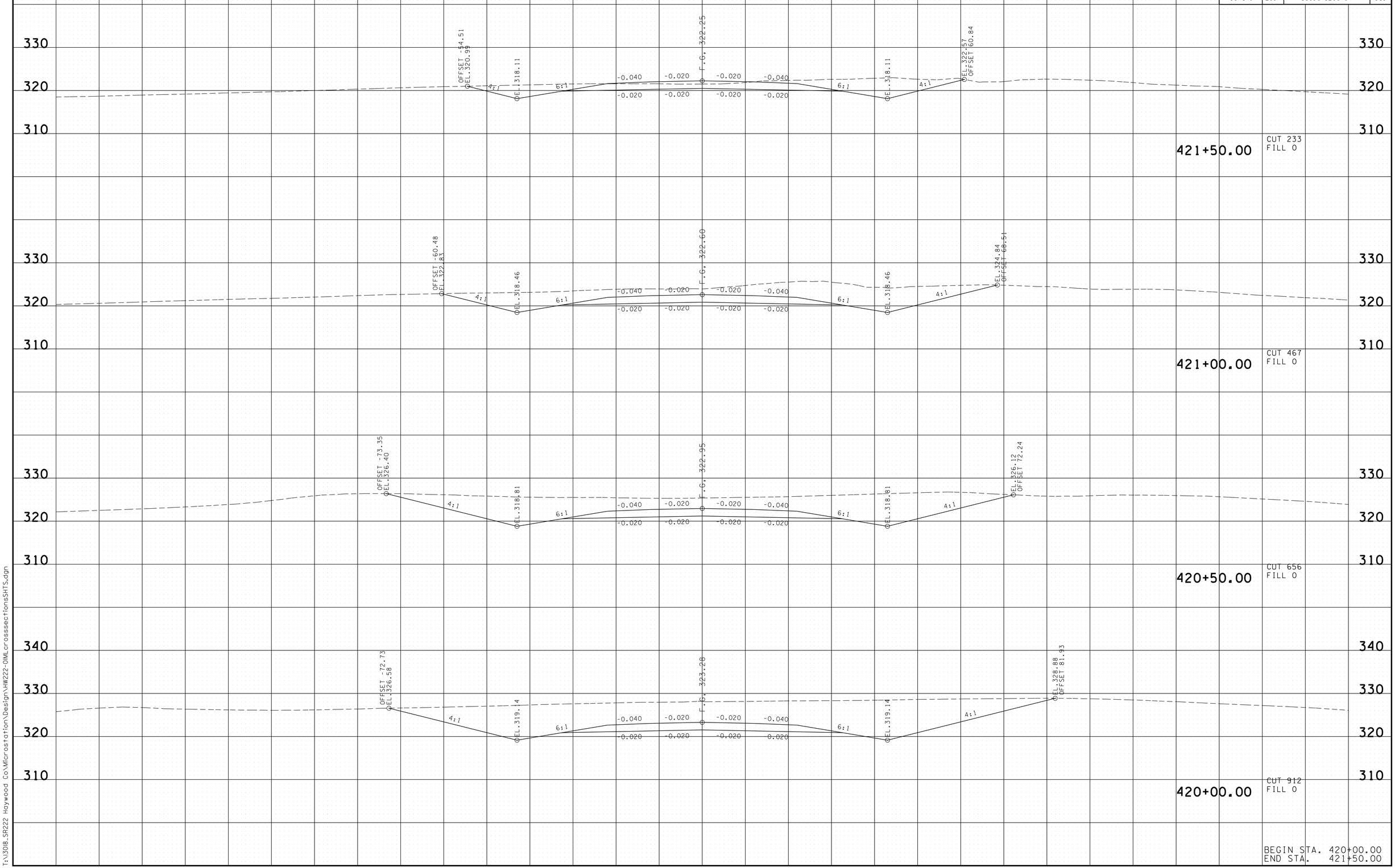
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	147
CONST.	2014	38016-3206-04	151



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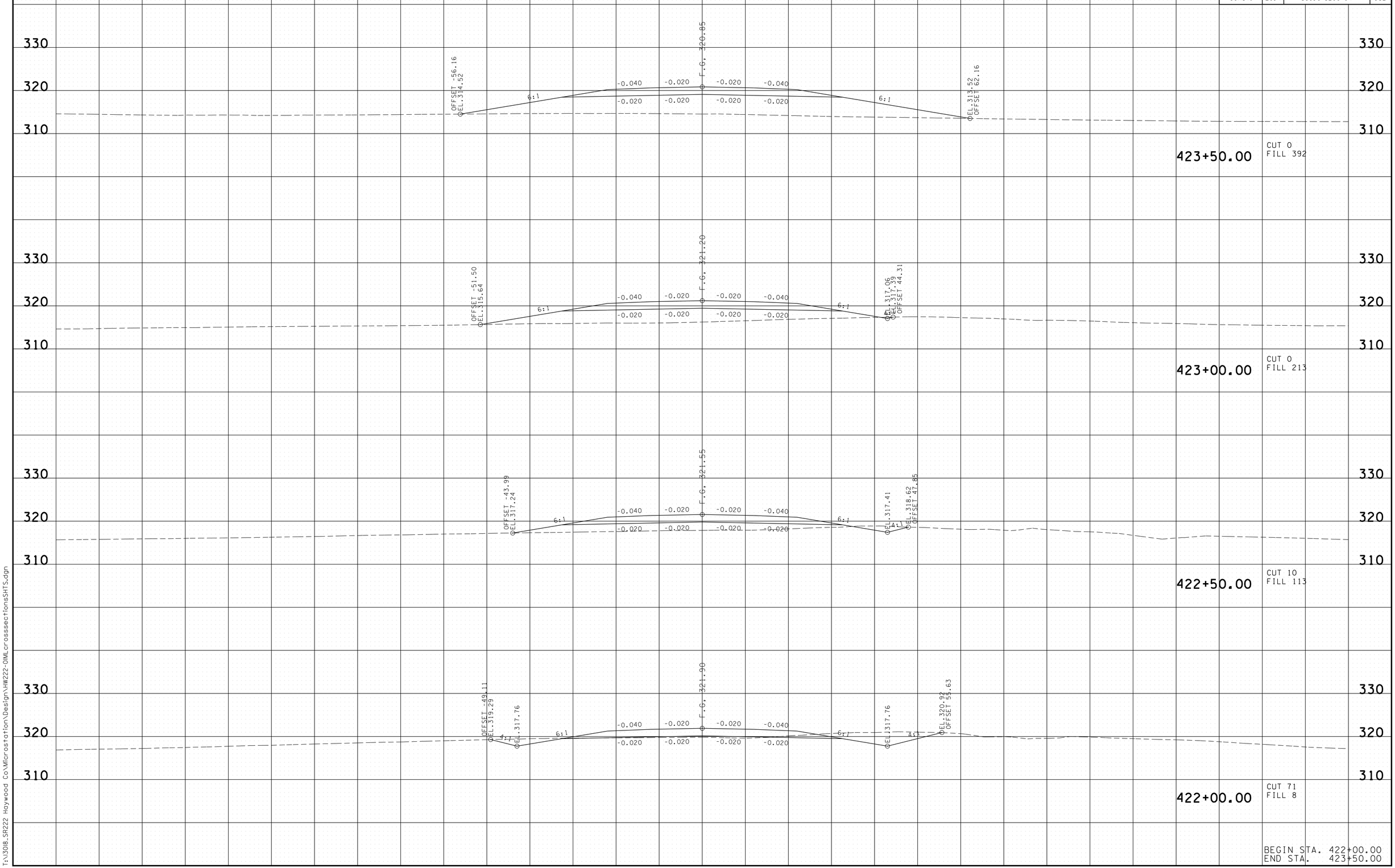
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	148
CONST.	2014	38016-3206-04	152



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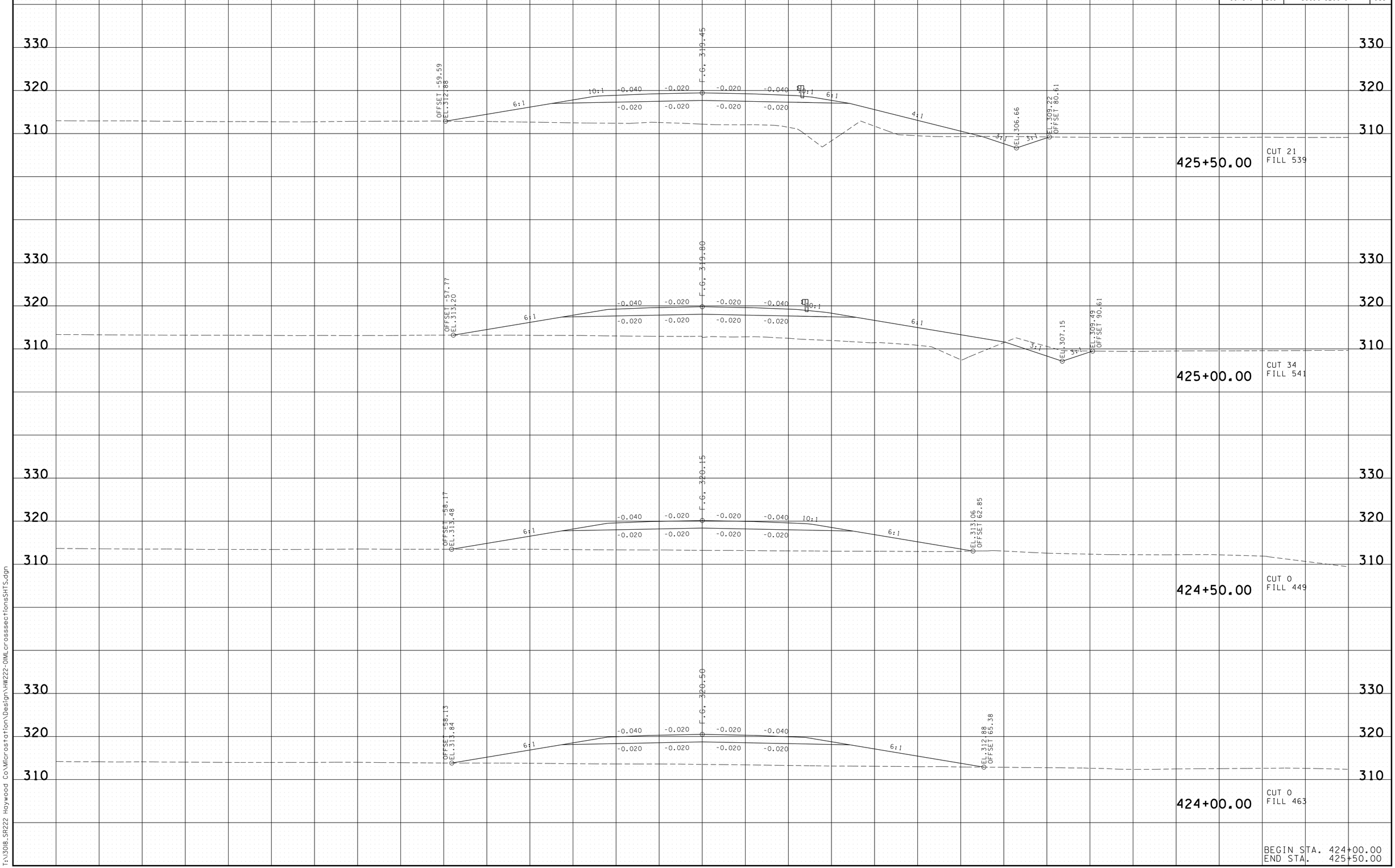
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	149
CONST.	2014	38016-3206-04	153



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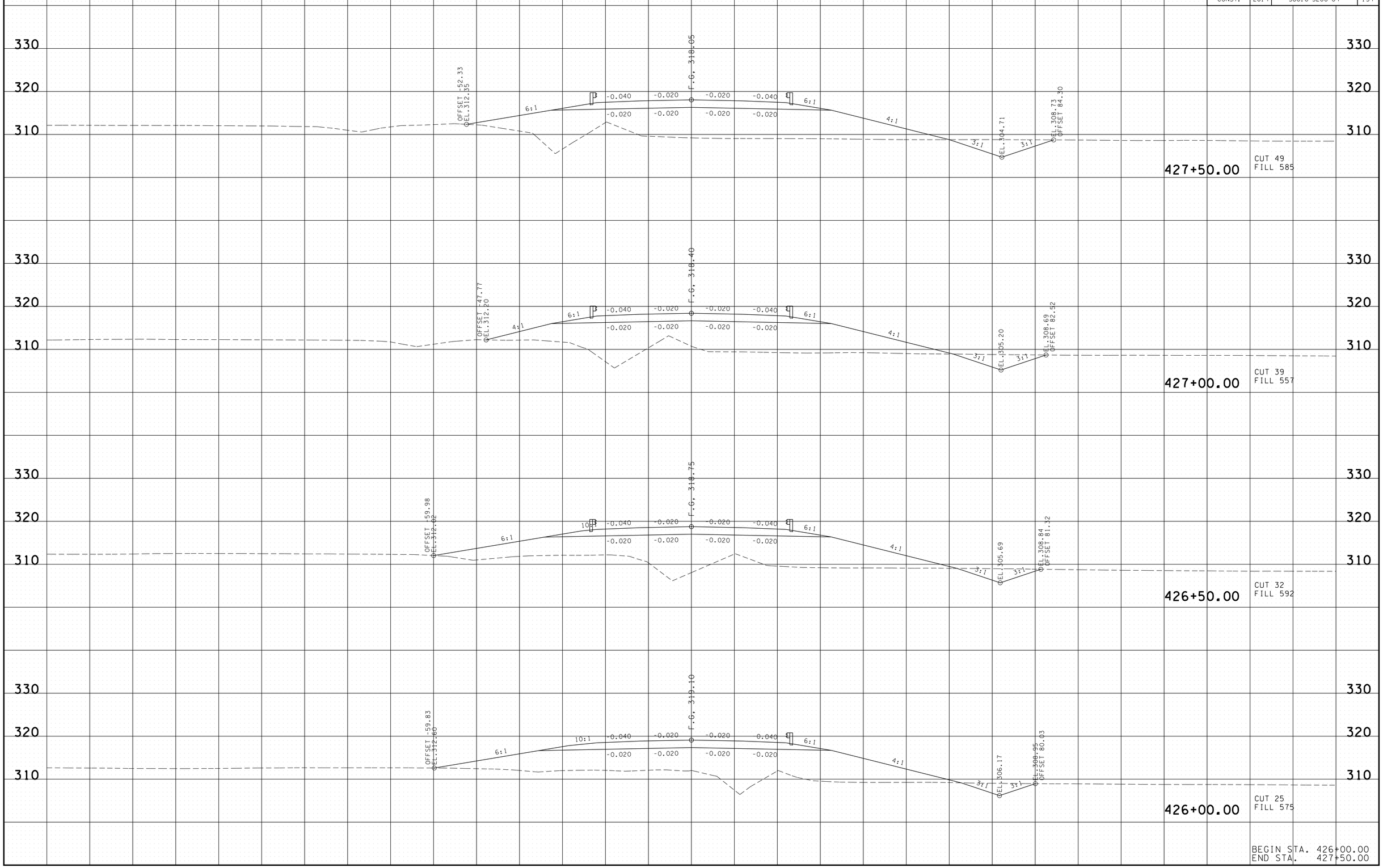
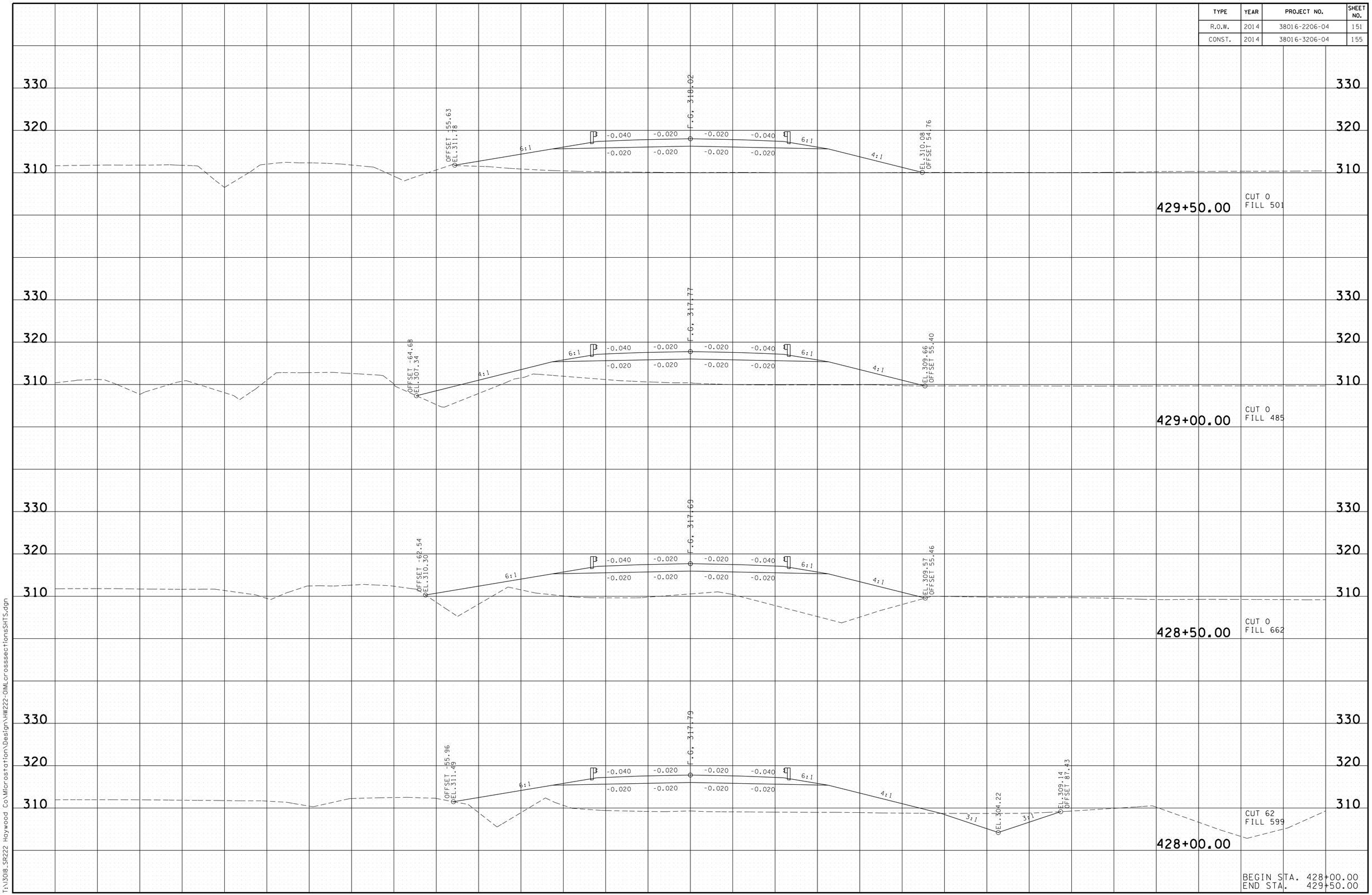
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	150
CONST.	2014	38016-3206-04	154

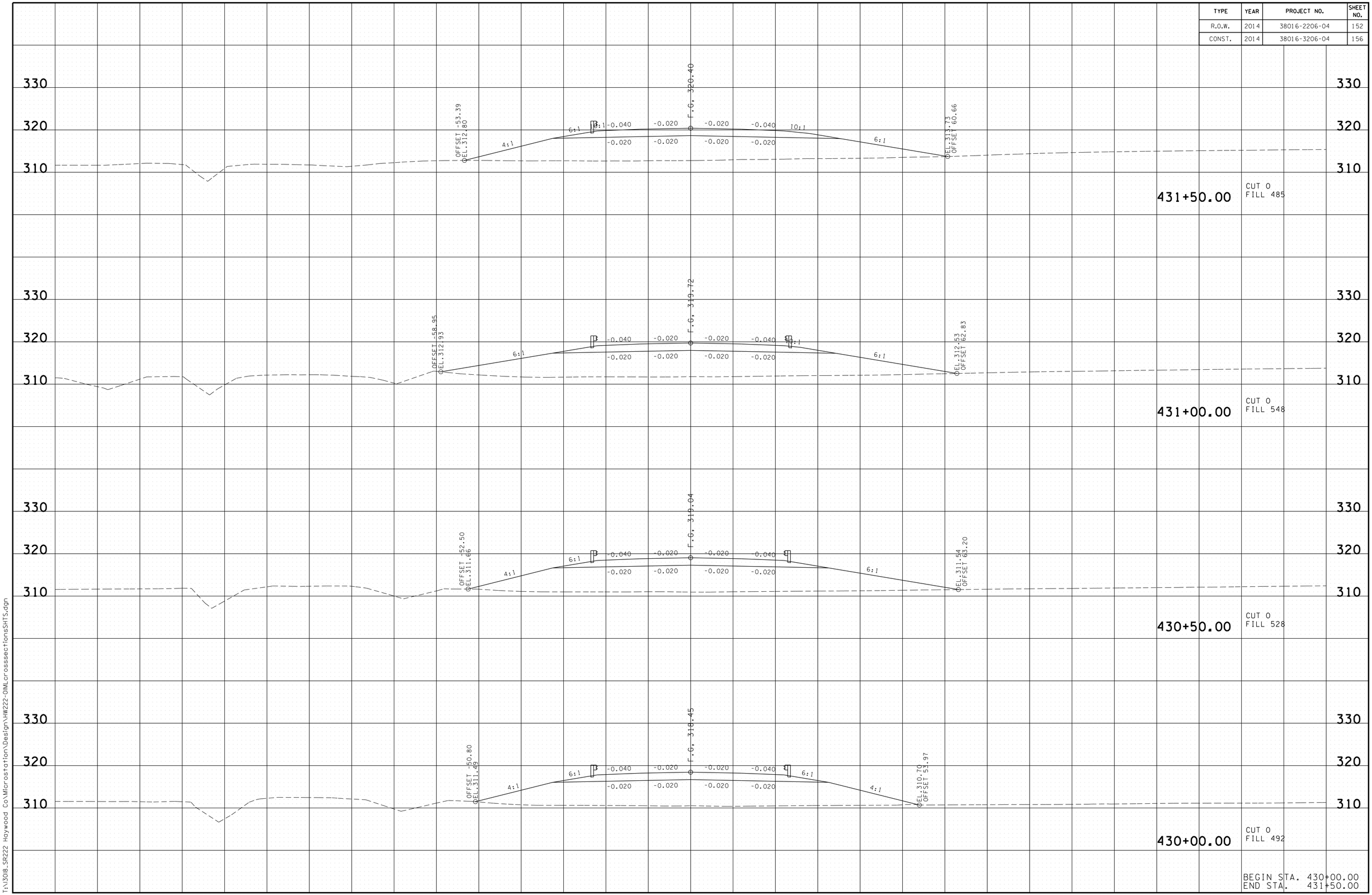


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	151
CONST.	2014	38016-3206-04	155



3/13/2014 7:31:21 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-OIMLcrossseccionesSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	152
CONST.	2014	38016-3206-04	156



BEGIN STA. 430+00.00
END STA. 431+50.00

3/13/2014 7:31:26 AM
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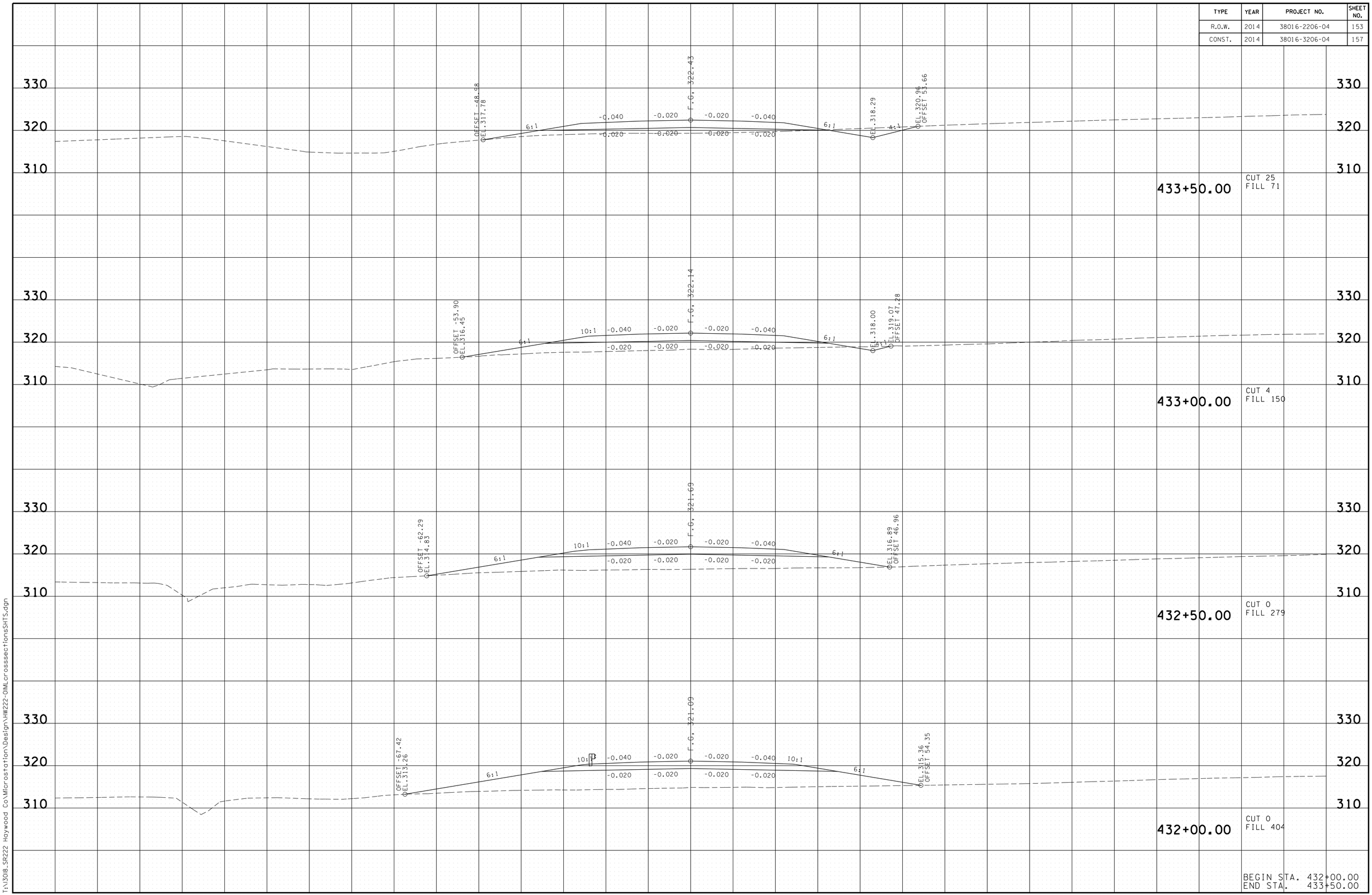
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	153
CONST.	2014	38016-3206-04	157



3/13/2014 7:31:31 AM
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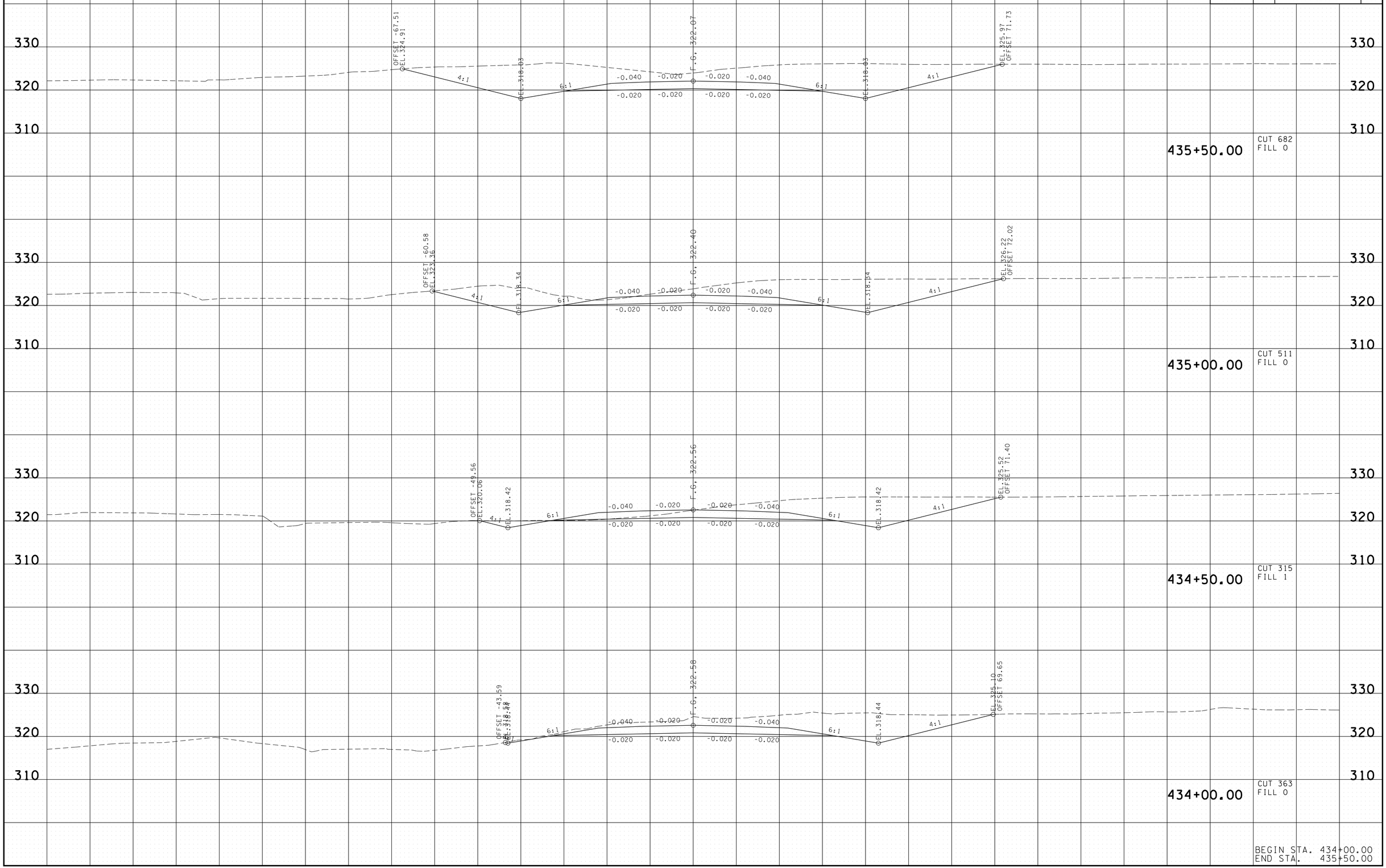
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	154
CONST.	2014	38016-3206-04	158



3/13/2014 7:31:36 AM
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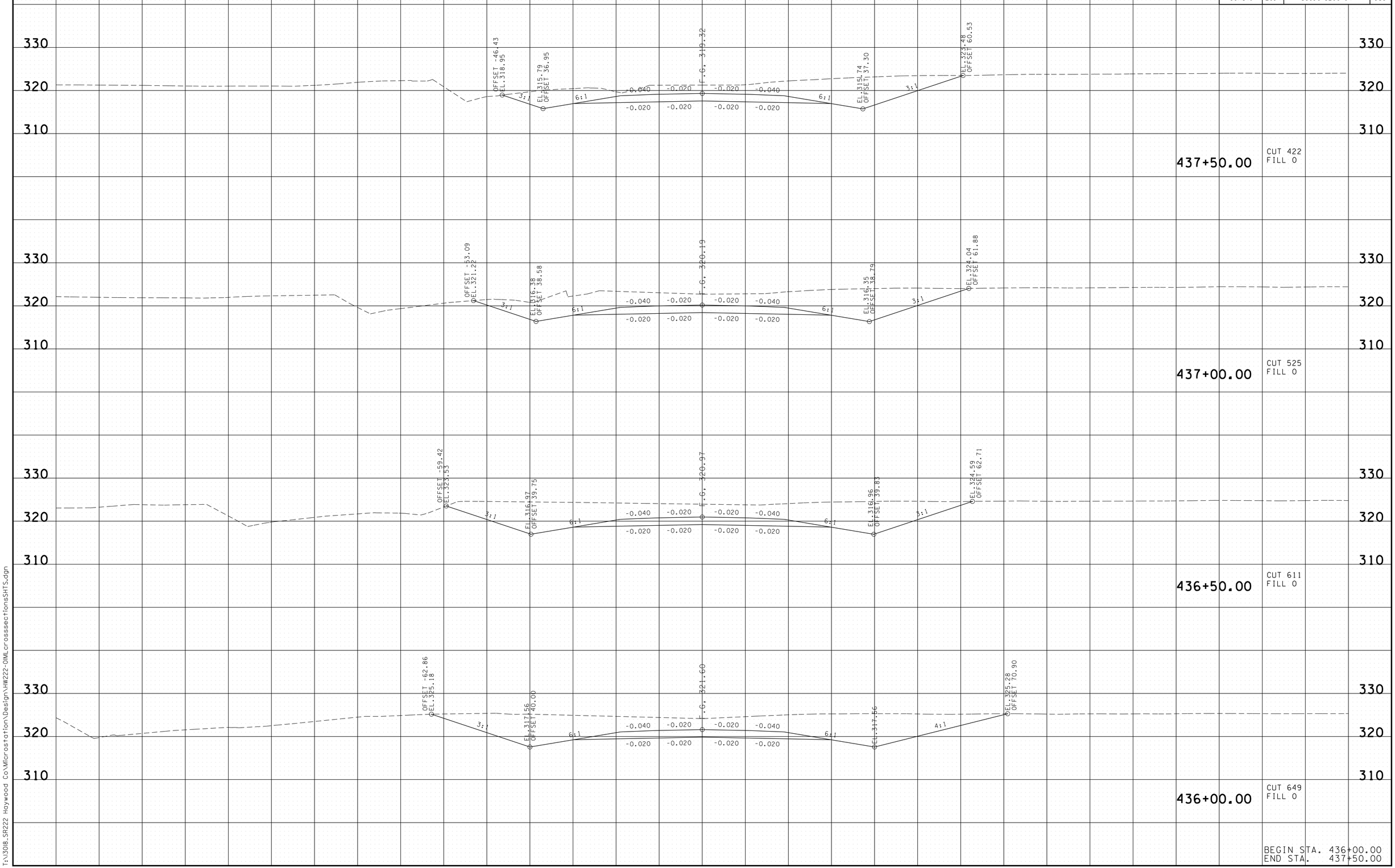
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	155
CONST.	2014	38016-3206-04	159



BEGIN STA. 436+00.00
END STA. 437+50.00

3/13/2014 7:31:41 AM
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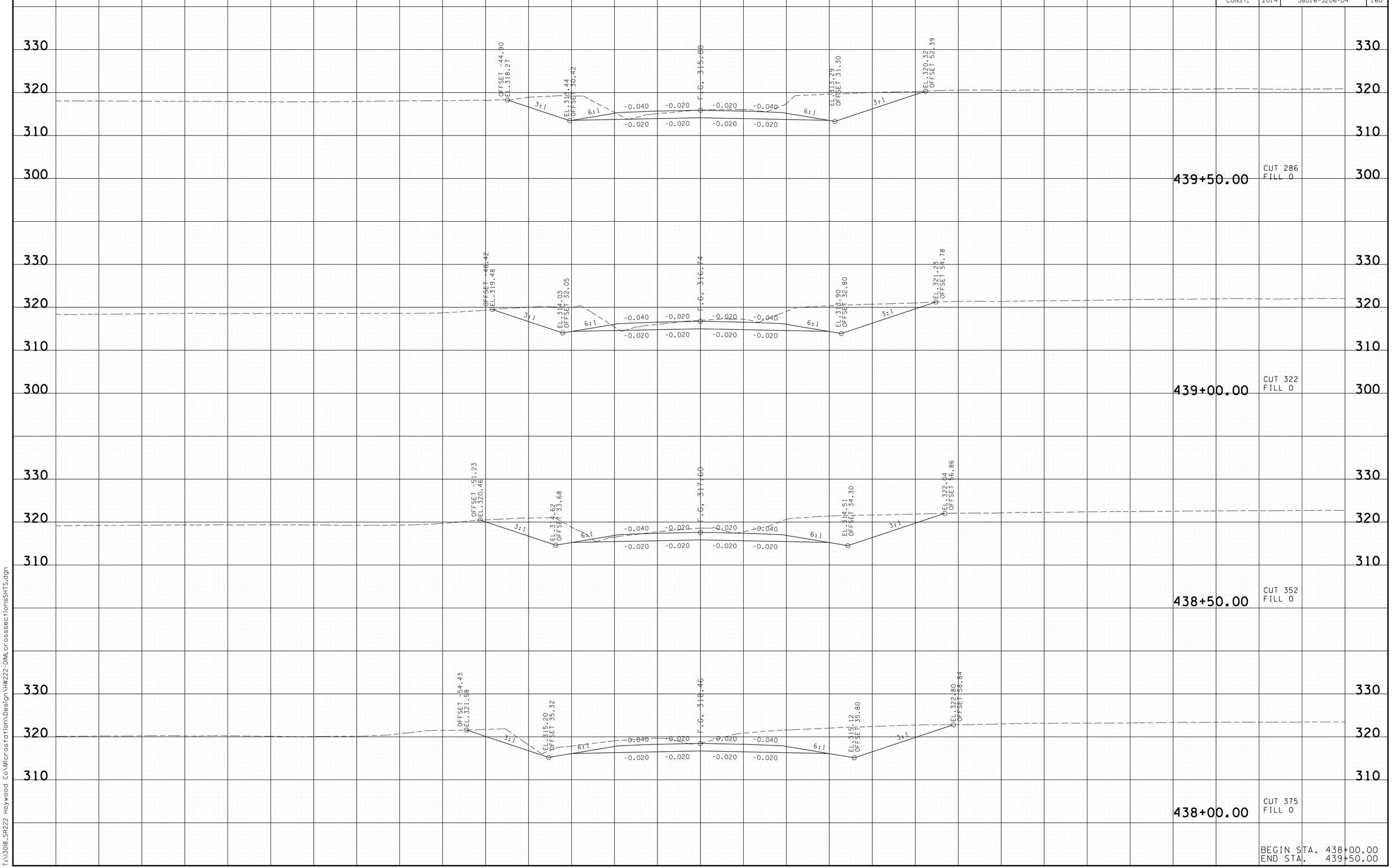
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	156
CONST.	2014	38016-3206-04	160



BEGIN STA. 438+00.00
END STA. 439+50.00

3/13/2014 7:31:46 AM
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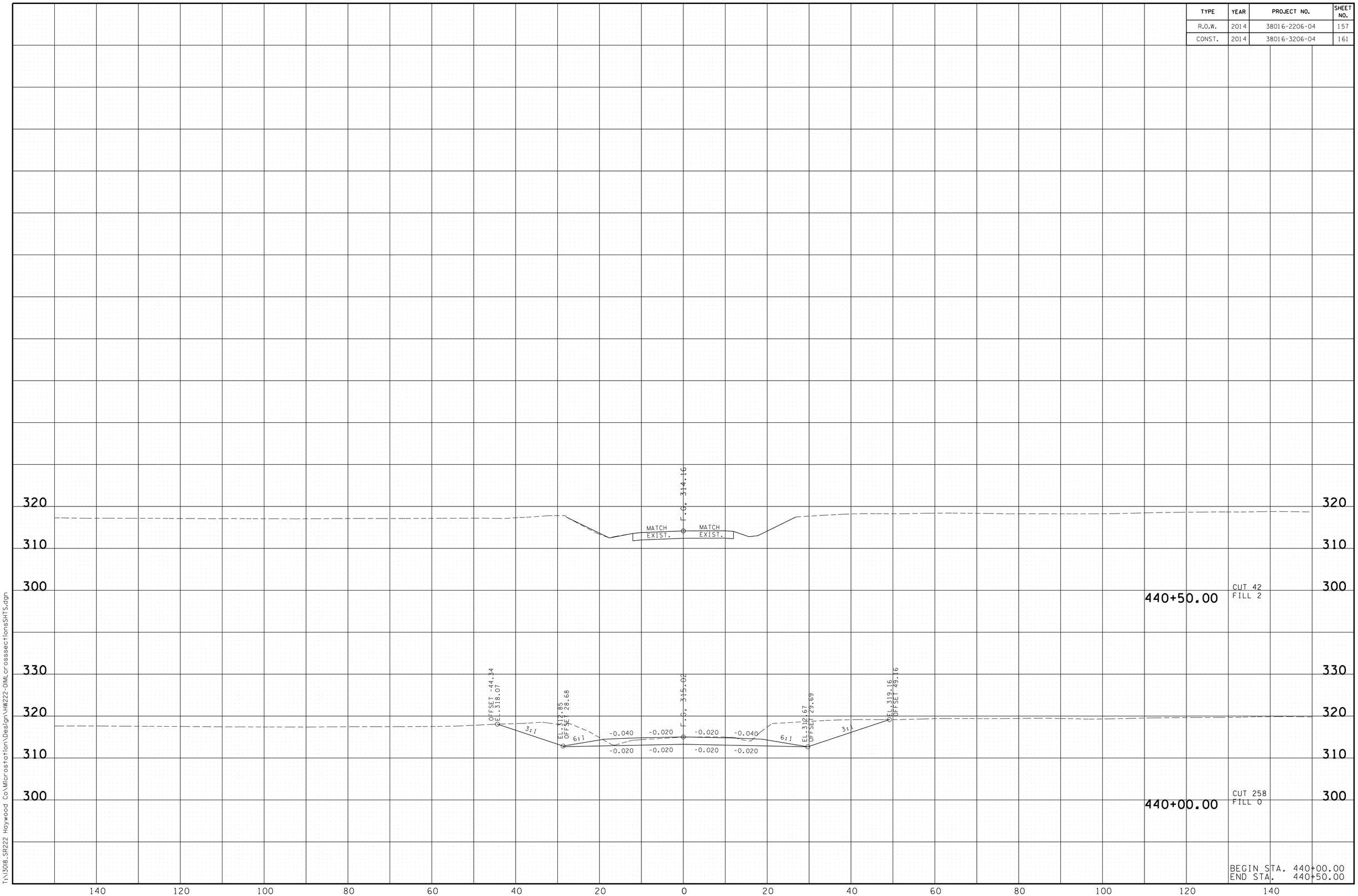
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	157
CONST.	2014	38016-3206-04	161



3/13/2014 7:31:51 AM
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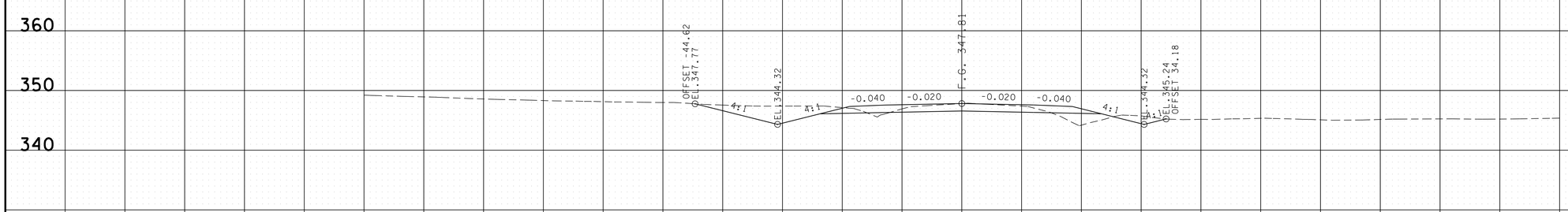
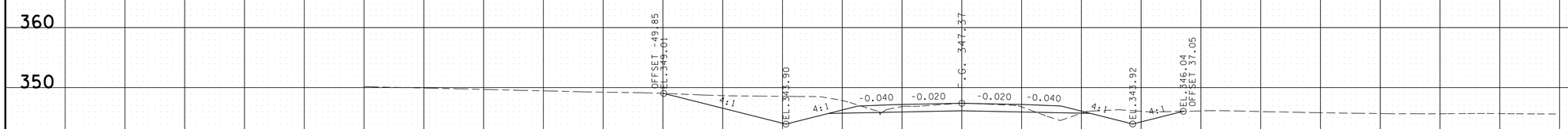
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	158
CONST.	2014	38016-3206-04	162



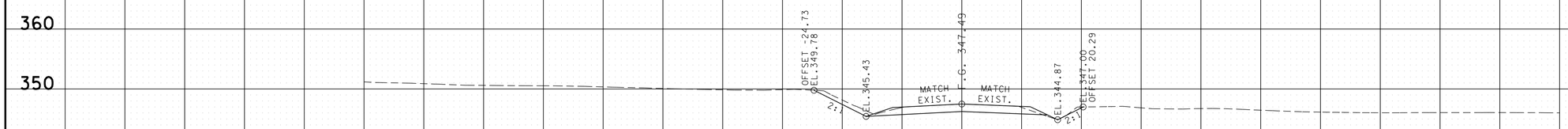
7+32.26

CUT 75
FILL 13



7+00.00

CUT 128
FILL 5



6+70.00

CUT 38
FILL 0

THORPE DR.

BEGIN STA. 6+70.00
END STA. 7+32.26

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

3/13/2014 7:45:09 AM
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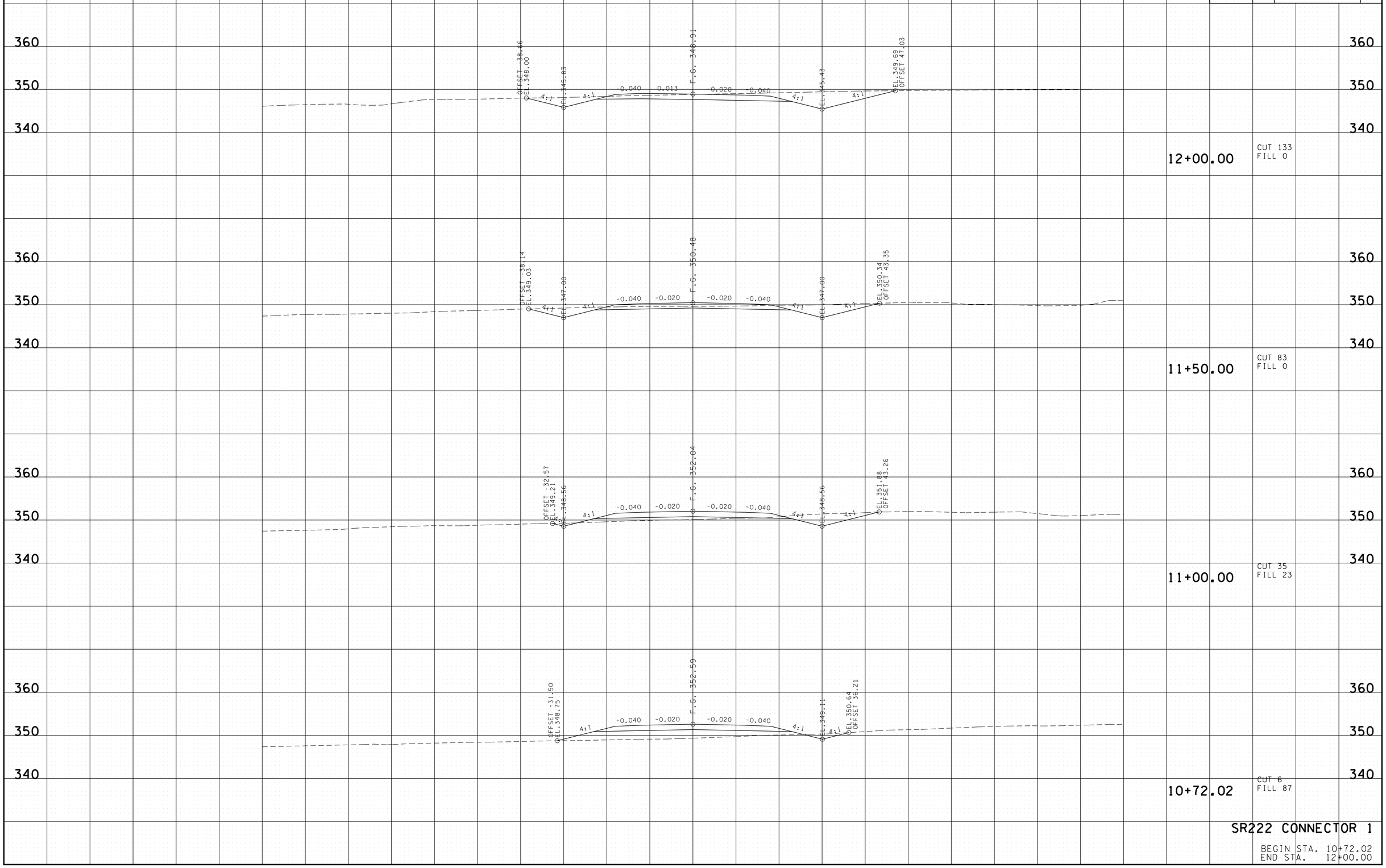
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	159
CONST.	2014	38016-3206-04	163

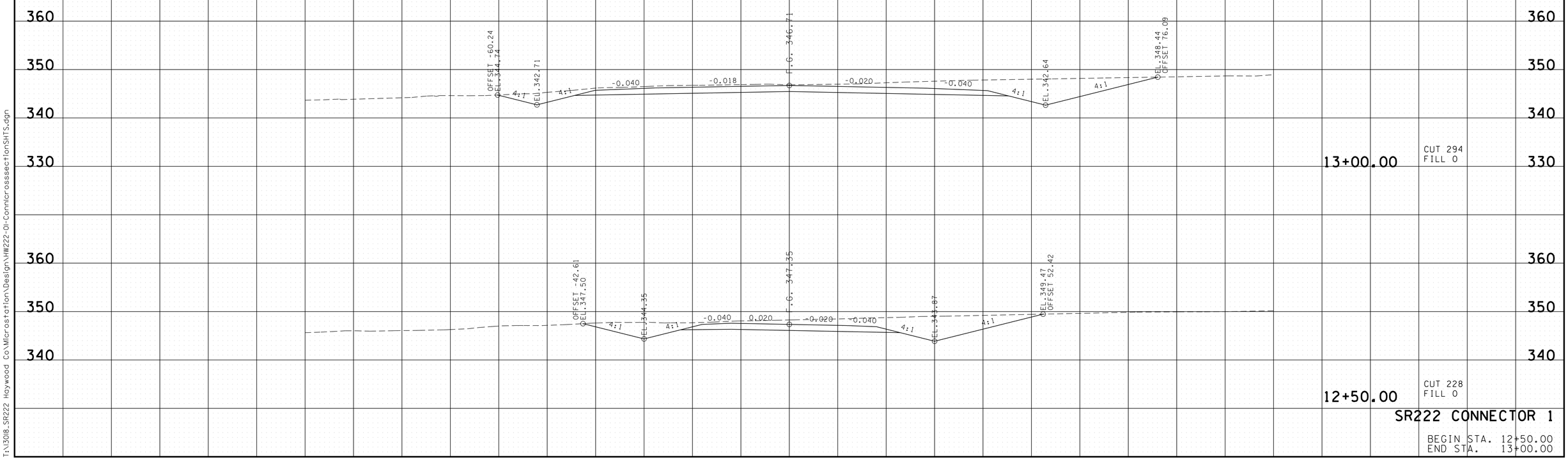


SR222 CONNECTOR 1

BEGIN STA. 10+72.02
END STA. 12+00.00

3/13/2014 8:50:16 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-01-ConnCrosssectionSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	160
CONST.	2014	38016-3206-04	164

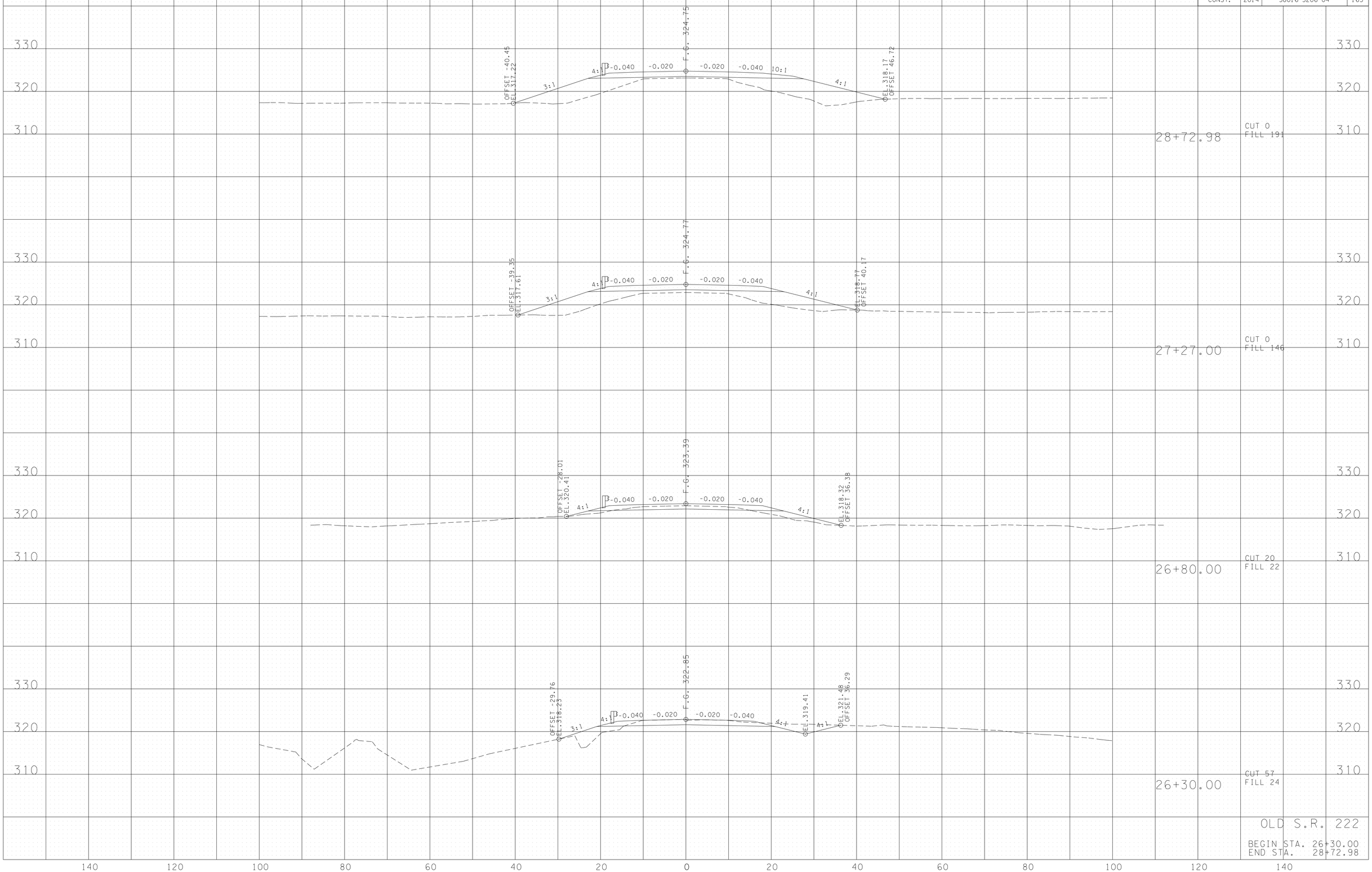


SR222 CONNECTOR 1

BEGIN STA. 12+50.00
END STA. 13+00.00

3/13/2014 8:50:17 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-01-Connlcrosssectionsheets.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	161
CONST.	2014	38016-3206-04	165

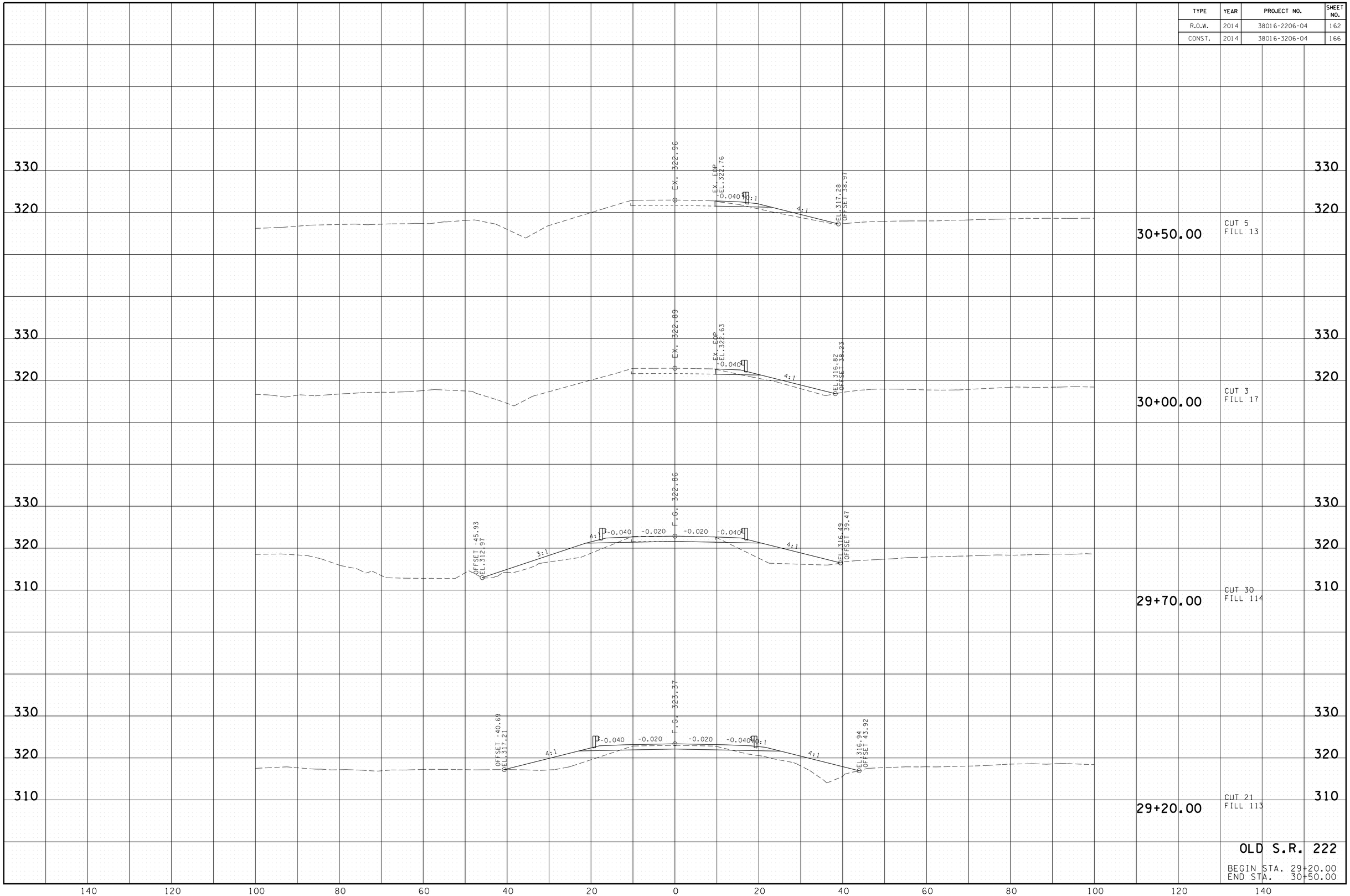


OLD S.R. 222

BEGIN STA. 26+30.00
END STA. 28+72.98

3/13/2014 8:52:34 AM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-01-OldSR222crosssectionSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	162
CONST.	2014	38016-3206-04	166



OLD S.R. 222

BEGIN STA. 29+20.00
END STA. 30+50.00

3/13/2014 8:52:35 AM
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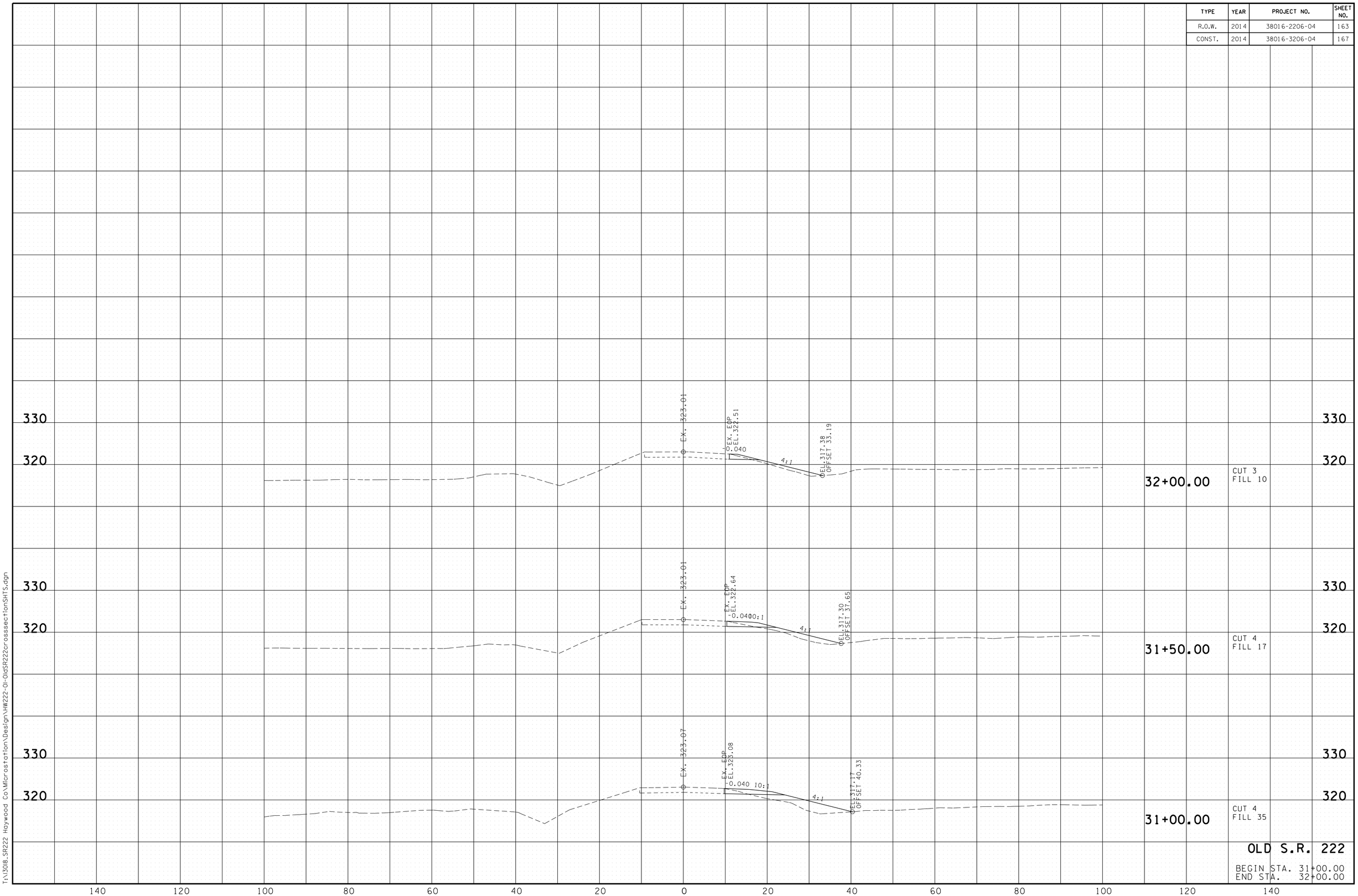
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	163
CONST.	2014	38016-3206-04	167



3/13/2014 8:52:36 AM
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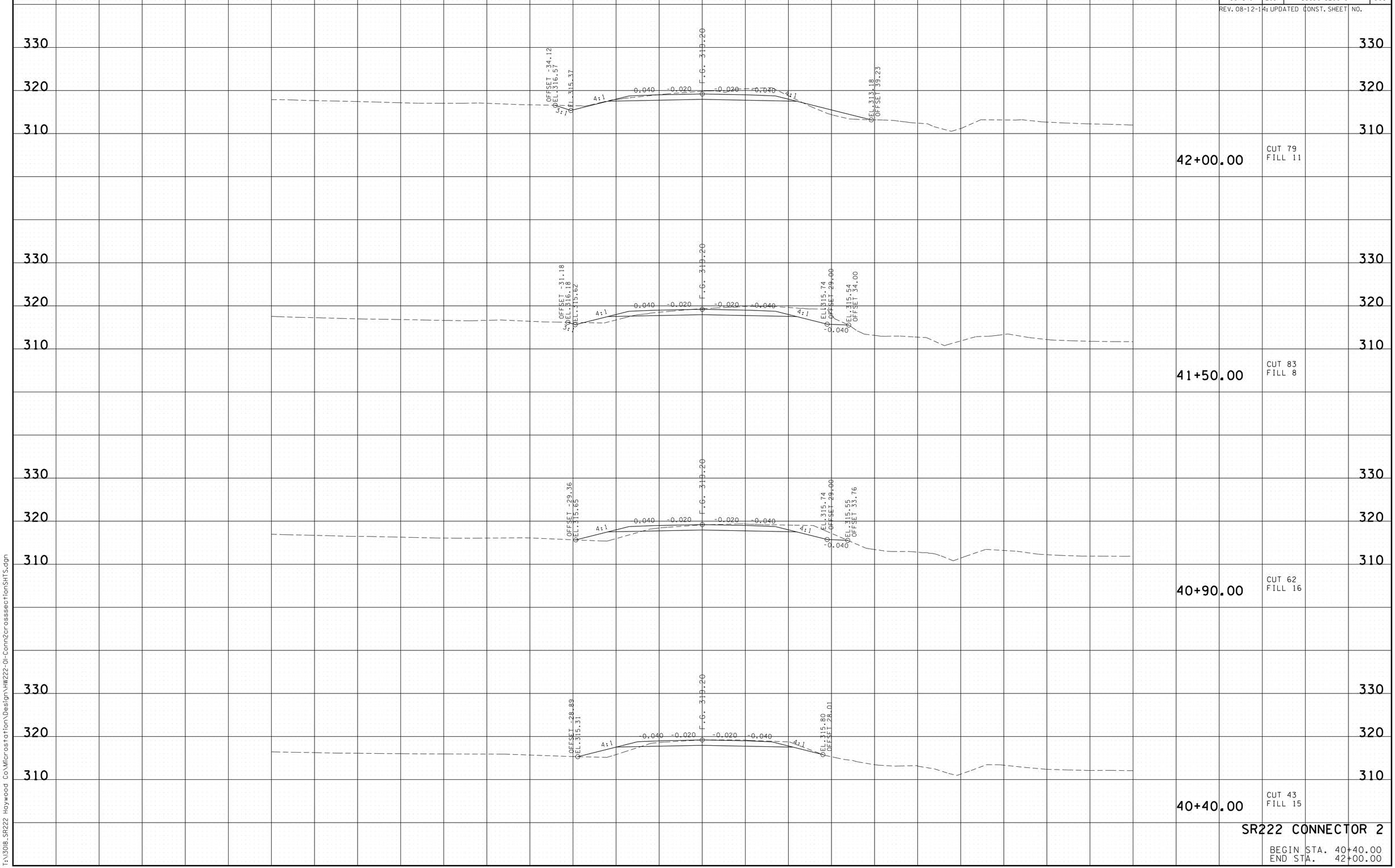
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	167
CONST.	2014	38016-3206-04	168

REV. 08-12-14: UPDATED CONST. SHEET NO.



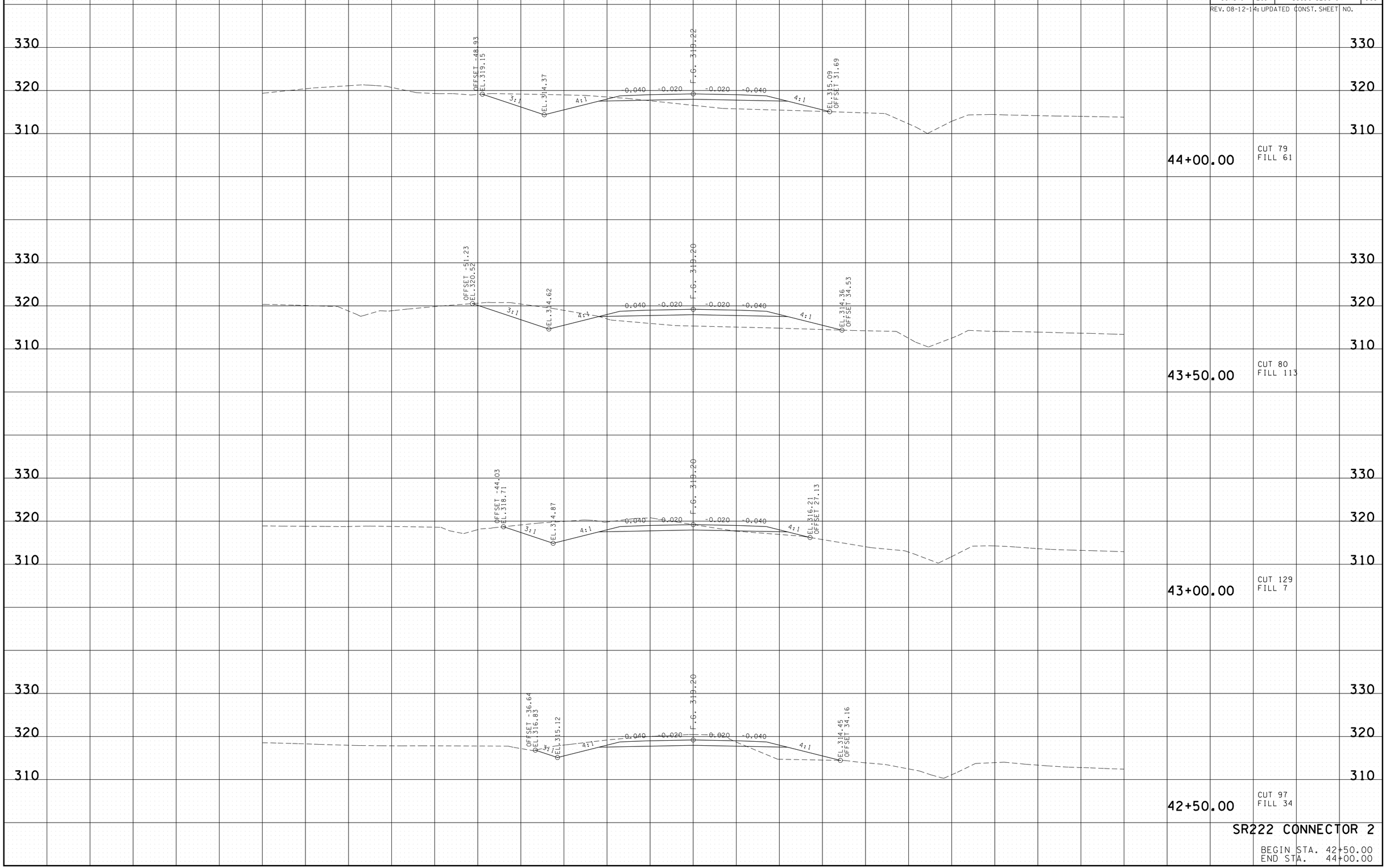
SR222 CONNECTOR 2

BEGIN STA. 40+40.00
END STA. 42+00.00

8/11/2014 2:36:43 PM
T:\13018_SR222 Haywood Co\Microstation\Design\HW222-01-Conn2crosssectionSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	168
CONST.	2014	38016-3206-04	169

REV. 08-12-14: UPDATED CONST. SHEET NO.



SR222 CONNECTOR 2

BEGIN STA. 42+50.00
END STA. 44+00.00

8/11/2014 2:36:44 PM
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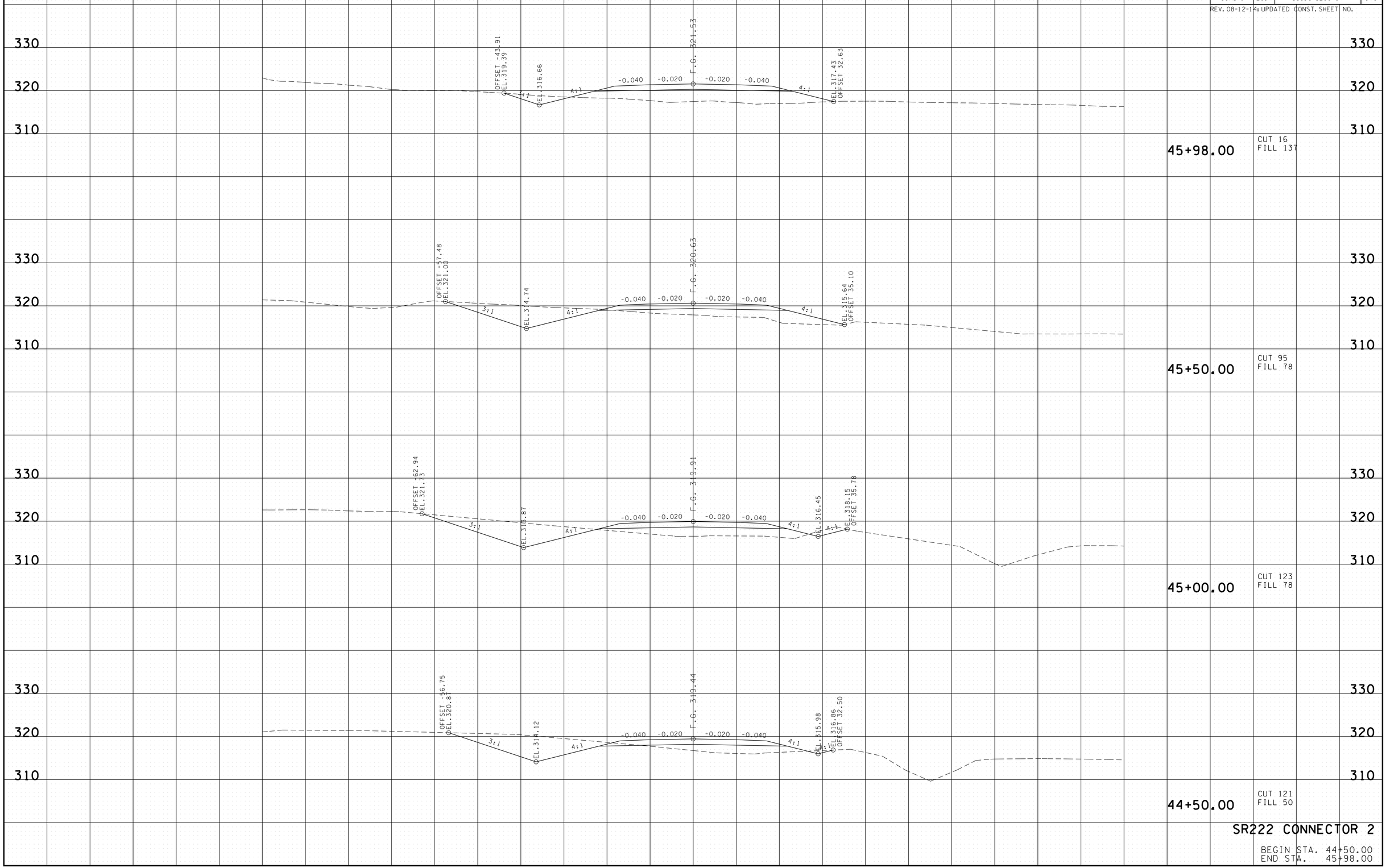
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	38016-2206-04	169
CONST.	2014	38016-3206-04	170

REV. 08-12-14: UPDATED CONST. SHEET NO.



SR222 CONNECTOR 2

BEGIN STA. 44+50.00
END STA. 45+98.00

8/11/2014 2:36:45 PM
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