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

Index Of Sheets

SEE SHEET NO. 1A

# STATE OF TENNESSEE
# DEPARTMENT OF TRANSPORTATION
# BUREAU OF ENGINEERING

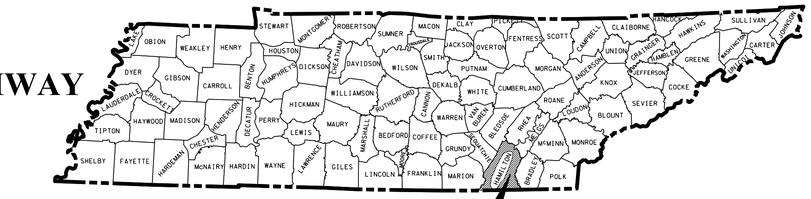
| TENN. | YEAR | SHEET NO. |
|---|---|---|
| | 2014 | 1 |
| FED. AID PROJ. NO. | STP/NH-317(14) | |
| STATE PROJ. NO. | 33070-3232-14 | |

# HAMILTON COUNTY

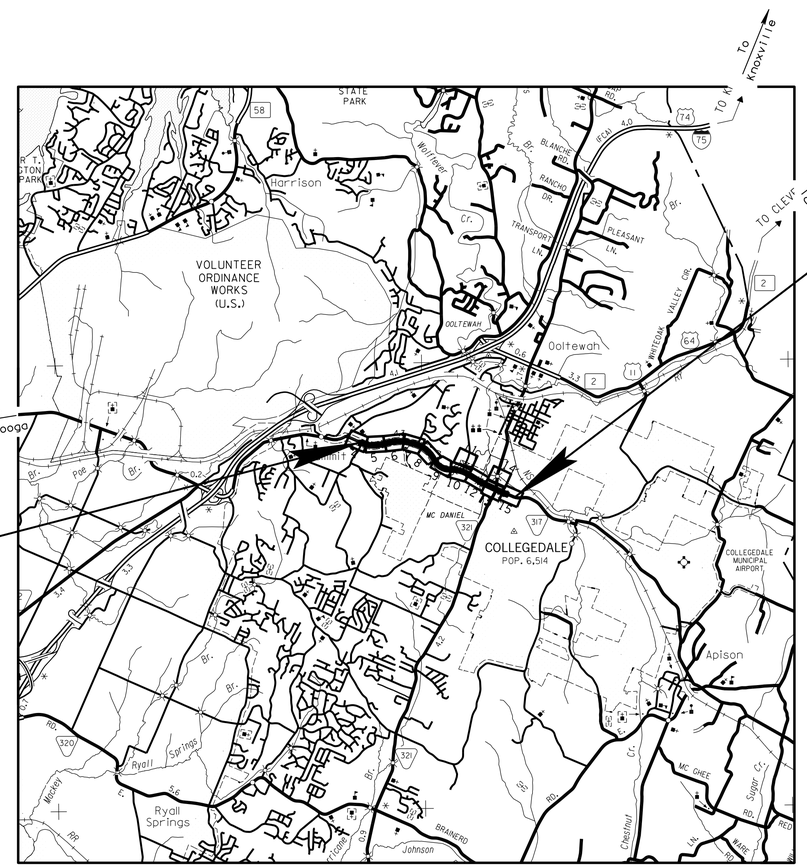
## S.R. 317 (APISON PIKE) INTERSECTION AT OLD LEE HIGHWAY TO S.R. 321 (OOLTEWAH-RINGGOLD ROAD)

**CONSTRUCTION**

STATE HIGHWAY NO. 317 F.A.H.S. NO.




PROJECT NO. STP/NH-317(14)
HAMILTON COUNTY




S.P. # 33070-3232-14
END PROJECT NO. STP/NH-317(14) CONST.
STATION 259+97.74
N 265318.9847
E 2248771.2323

S.P. # 33070-3232-14
BEGIN PROJECT NO. STP/NH-317(14) CONST.
STATION 141+30.00
N 269109.2064
E 2238113.3269

**UNOFFICIAL SET**
**NOT FOR BIDDING**

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106420
STATE OF TENNESSEE

| NO EXCLUSIONS |
|---|
| NO EQUATIONS |

| TRAFFIC DATA | |
|---|---|
| ADT (2015) | 19,610 |
| ADT (2035) | 33,240 |
| DHV (2035) | 3,656 |
| D | 60 - 40 |
| T (ADT) | 5 % |
| T (DHV) | 3 % |
| V | 45 MPH |

APPROVED: 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 DESIGN MANAGER 2 JENNIFER LLOYD, P.E.

DESIGNER DONNIE SIRICHANTO CHECKED BY KHHUZAIMA MAHDI

P.E. NO. 33070-1228-14 (Design)

PIN NO. 107637.03

| | | |
|---|---|---|
| BOX BRIDGE LENGTH | - - - | 0.010 MILE |
| ROADWAY LENGTH | - - - | 2.237 MILE |
| TOTAL PROJECT LENGTH | - - - | 2.247 MILE |

| SURVEY DATE |
|---|
| ---FEBRUAR 10, 2010 |
| ------JULY 15, 2010 |
| ------APRIL 7, 2011 |
| ------MAY 11, 2012 |

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

8-JUN-2014 07:52
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 1A |
| | | | |
| | | | |

# INDEX


| SHEET NAME | SHEET NO. |
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| ESTIMATED UTILITIES QUANTITIES | 2B |
| ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES | 2C |
| TYPICAL SECTIONS AND PAVING SCHEDULE | 2D – 2J |
| SPECIAL DITCH TYPICALS AND DITCH LINING | 2K |
| GENERAL NOTES AND SPECIAL NOTES | 2L – 2P |
| TABULATED QUANTITIES | 2Q - 2X |
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| PROPOSED PROFILES | 4C - 15C |
| STORM DRAINAGE PROFILES | 4D - 15D |
| SIDE ROADS PROFILES | 16 - 24 |
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| PRIVATE DRIVE PROFILES | 25 - 34 |
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| CULVERT CROSS SECTIONS | 36 - 42 |
| EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS | 43, 43A - 49A |
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| TRAFFIC CONTROL PLANS WITH CONSTRUCTION PHASING NOTES | 51, 51A – 55A |
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| SOILS SHEETS | 59, 59A – 59AA, 59B – 59Z |
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| SIDE ROAD CROSS SECTIONS | 130 - 150 |
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| STORM WATTER POLLLUTION PREVENTION PLAN (SWPPP) INDEX | S-1 |


NOTES: SHEET NOS. 11C, 11D, 14C, 14D, 49B-49K, AND 55B-55D ARE NOT USED. THE LETTER "O" IS NOT USED IN SHEET NUMBERING FOR GENERAL NOTES AND SPECIAL NOTES..

**NO PROJECT COMMITMENT SHEETS INCLUDED IN THIS SET OF PLANS**

## STANDARD BRIDGE DRAWINGS

| DWG. NO. | REV. | DESCRIPTION |
|---|---|---|
| **BRIDGE APPURTENANCES ENGLISH (NEW STRUCTURES)** | | |
| STD-1-1 | 7-31-00 | BRIDGE RAILING CONCRETE PARAPET |
| STD-10-1 | 4-08-05 | MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS |
| **BRIDGE APPURTENANCES ENGLISH (BOX CULVERTS)** | | |
| STD-15-1 | 11-06-08 | INDEX OF DRAWINGS AND TERMINOLOGY |

# STANDARD ROADWAY DRAWINGS

| DWG. NO | REV. | DESCRIPTION |
|---|---|---|
| STD-15-2 | 3-28-08 | GENERAL NOTES |
| STD-15-3 | 2-28-03 | DESIGN SECTION LIMITS |
| STD-15-4 | 12-07-01 | TYPICAL SECTION AND DETAILS |
| STD-15-5 | 2-28-03 | TYPICAL ELEVATION |
| STD-15-6 | 3-28-08 | CURB AND RAIL DETAILS - SKEW NOT LESS THAN 45 DEG. |
| STD-15-7 | 3-02-02 | STANDARD EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 8" |
| STD-15-8 | 12-07-01 | INTERIOR WALL END TREATMENTS |
| STD-15-9 | 2-28-03 | TYPICAL WINGWALL DETAILS AND NOTES |
| STD-15-10 | 11-06-08 | WINGWALL DIMENSIONS AND QUANTITIES |
| STD-15-13 | | WINGWALL DESIGN SECTION |
| STD-15-14 | 2-28-03 | BACKFILL AND DRAINAGE DETAILS |
| STD-15-16A | | LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET |
| STD-15-17 | | DEBRIS DEFLECTION WALL |
| STD-15-21 | 3-02-02 | STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-8") |
| STD-15-24 | 12-07-01 | END SECTION DETAILS |
| STD-15-28 | | PRECAST BOX CULVERT DETAILS |
| **BRIDGE APPURTENANCES ENGLISH (LRFD BOX CULVERTS)** | | |
| 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-17-20 | | LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET |
| STD-17-23 | | SIDEWALK AND MISCELLANEOUS DETAILS |
| STD-17-25 | | STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-6") |
| STD-17-26 | | EXTENSION DETAILS |
| STD-17-28 | | END SECTION DETAILS |
| STD-17-51 | | BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL |
| STD-17-78 | | BOX BRIDGE, 2 BARRELS AT 12', CLEAR HTS. 10' - 12', 0 - 60' FILL |
| STD-17-79 | | BOX BRIDGE, 2 BARRELS AT 14', CLEAR HTS. 5' - 7', 0 - 60' FILL |
| **ROADWAY DESIGN STANDARDS** | | |
| RD-A-1 | 12-18-99 | STANDARD ABBREVIATIONS |
| RD-L-1 | 10-26-94 | STANDARD LEGEND |
| RD-L-2 | 09-05-01 | STANDARD LEGEND FOR UTILITY INSTALLATIONS |
| RD-L-3 | 04-15-04 | STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING |
| RD-L-4 | 04-15-04 | STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING |
| RD-L-5 | 05-01-08 | STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL |
| RD-L-6 | 03-30-10 | STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL |
| RD-L-7 | 05-24-12 | STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL |
| RD-L-8 | | STANDARD LEGEND FOR NATURAL STREAM DESIGN |
| RD-UD-3 | 09-05-96 | UNDERDRAIN DETAILS |
| RD-UD-4 | 05-27-01 | UNDERDRAIN LATERAL DETAILS |
| RD-UD-6 | 12-18-94 | LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES |
| RD-UD-7 | 12-18-94 | LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 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-S-12 | 08-01-09 | CLEAR ZONE CRITERIA |
| RD01-SD-1 | | INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES |
| RD01-SD-2 | | INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION |
| RD01-SD-3 | | INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS |
| RD01-SD-4 | | INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS |
| RD01-SE-2 | 10-15-02 | URBAN 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-6 | 07-31-13 | TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER |
| RD01-TS-6A | 07-31-13 | TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER |
| **DRAINAGE - CULVERTS AND ENDWALL** | | |
| D-PB-1 | 01-02-13 | STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION |
| D-PE-1 | 02-12-76 | TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78" |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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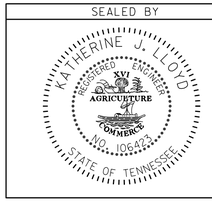


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS


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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 1A1 |
| | | | |
| | | | |
| | | | |

# STANDARD ROADWAY DRAWINGS

| DWG. NO. | REV. | DESCRIPTION |
|---|---|---|
| **DRAINAGE-CULVERTS AND ENDWALL (CONT.)** | | |
| D-PE-4 | 01-15-13 | STRAIGHT CONCRETE ENDWALL |
| 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-42A | 06-14-13 | 42" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE |
| D-PE-42B | | 42" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE |
| D-PE-48A | 06-14-13 | 48" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE |
| D-PE-48B | | 48" CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE |
| D-SEW-1A | 06-14-13 | SIDE DRAIN CONCRRETE ENDWALL WITH STEEL PIPE GRATE |
| **DRAINAGE-CATCH BASINS AND MANHOLES** | | |
| D-CB-12LP | 08-01-12 | LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN |
| D-CB-12RA | 03-11-14 | STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB) |
| D-CB-12RB | 03-11-14 | STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB) |
| D-CB-12S | 03-11-14 | STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN |
| D-CB-12SB | 03-11-14 | STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN |
| D-CB-12SD | 03-11-14 | STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN |
| D-CB-14S | 03-11-14 | STANDARD RECTANGULAR CONCRETE NO. 14 CATCH |
| D-CB-42S | 08-01-12 | STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN |
| D-CB-42SB | 03-11-14 | STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN |
| D-CB-42SC | 03-11-14 | STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 |
| D-CBB-12A | 05-27-01 | TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, & 17 TYPE CATCH BASINS |
| D-CBB-42 | 05-27-01 | CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS |
| D-JBS-2 | 08-01-12 | STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX |
| D-JBS-3 | 08-01-12 | STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 3 JUNCTION BOX |
| D-JBS-4 | 08-01-12 | STANDARD 7' X 7' SQUARE CONCRETE NO. 4 JUNCTION BOX |
| D-MH-3 | 04-21-14 | STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE |
| D-SDS-2A | 08-01-12 | STANDARD 4' X 4' SQUARE CONCRETE NO. 2A SPRING DRAIN BOX |
| **ROADWAY AND PAVEMENT APPURTENANCES** | | |
| RP-D-15 | 07-15-08 | DETAILS OF STANDARD CONCRETE DRIVEWAYS |
| RP-D-16 | 07-15-08 | DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS |
| RP-H-3 | 06-04-13 | HANDICAP AND TRUNCATED DOME SURFACE DETAIL |
| RP-H-4 | 06-04-13 | PERPENDICULAR CURB RAMP |
| RP-H-5 | 06-04-13 | PARALLEL CURB RAMP |
| RP-H-6 | 04-13-11 | MEDIAN CROSSING |
| RP-H-7 | 06-04-13 | PERPENDICULAR CURB RAMP TYPE 2 |
| RP-H-8 | 06-04-13 | PERPENDICULAR CURB RAMP TYPE 2 |
| RP-H-9 | 06-04-13 | PARALLEL CURB RAMP TYPE 3 AND TYPE 4 |
| RP-I-5 | 12-18-96 | EXAMPLES OF STREET AND ALLEY INTERSECTIONS |
| RP-NMC-10 | 07-29-03 | STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS |
| RP-NMC-11 | 02-28-02 | STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS |
| RP-R-1 | 05-27-01 | STANDARD RAMPS TO SIDE ROADS |
| RP-S-7 | 06-04-13 | DETAILS FOR STANDARD CONCRETE SIDEWALKS |
| **SAFETY APPURTENANCES AND FENCE** | | |
| S-F-1 | 05-24-12 | HIGH VISIBILITY FENCE |
| S-GR31-1 | 07-11-13 | W-BEAM GUARDRAIL |
| S-GRA-3 | 07-11-13 | GUARDRAIL ANCHOR FOR TYPE 21, 13 AND IN-LINE TERMINAL |
| S-GRC-1 | 07-11-13 | GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL |
| S-GRS-2 | 07-11-13 | SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS |
| S-GRT-1 | 07-11-13 | TYPE 38 GUARDRAIL TERMINAL |
| S-GRT-2P | 07-11-13 | EARTH PAD FOR TYPE 38 TERMINAL |
| S-GRT-3 | 07-11-13 | TYPE 21 GUARDRAIL TERMINAL |
| S-GRT-3D | 07-11-13 | TYPE 21 GUARDRAIL TERMINAL (DETAILS) |
| S-PL-1 | 07-11-13 | SAFETY PLAN AT ROADSIDE HAZARDS |
| S-PL-2 | 07-11-13 | SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVE |
| S-PL-3 | 07-11-13 | SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS |
| 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-11 | 10-24-13 | SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AND ROUTES ON RURAL ROADS |
| T-M-12 | 10-10-13 | SIGNING AND PAVEMENT MARKINGS FOR URBAN BICYCLE LANES |
| T-M-13 | | SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES |
| T-PBR-1 | 06-30-09 | INTERCONNECTED PORTABLE BARRIER RAIL |
| T-PBR-2 | 10-10-06 | DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS |
| T-SG-1 | 11-01-11 | WOOD POLE DETAILS FOR SPAN MOUNTED SIGNALS |
| T-S-10 | 04-04-12 | STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN |
| T-S-16 | 11-01-11 | GROUND MOUNTED ROADSIDE SIGN AND DETAILS |
| T-S-17 | 07-19-13 | STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE |
| T-S-18 | 02-14-14 | END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS |
| 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-SG-2 | 07-29-04 | LOOP LEAD-INS, CONDUIT AND PULL BOXES |
| T-SG-3 | 11-11-04 | STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS |
| T-SG-4 | | SPAN WIRE AND MESSENGER CABLE DETAILS |
| T-SG-5 | 12-04-13 | CONTROLLER CABINET DETAILS |
| T-SG-7 | 11-01-11 | SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS |
| T-SG-7A | 11-01-11 | TYPICAL SIGNAL HEAD PLACEMENT |
| T-SG-9 | 12-04-13 | DETAILS OF CANTILEVER SIGNAL SUPPORT |
| T-SG-9A | 12-04-13 | MISCELLANEOUS SIGNAL DETAILS |
| T-SG-10 | 12-04-13 | MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS |
| T-SG-11 | 07-29-04 | MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION |
| T-SG-12 | 11-01-11 | TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS |
| T-WZ-10 | 04-02-12 | ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS |
| T-WZ-11 | 03-13-09 | ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS |
| T-WZ-16 | 03-13-09 | LANE SHIFT ON DIVIDED 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-3D | 04-01-08 | ENHANCED SILT FENCE |
| 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-8 | 08-01-12 | FILTER SOCK |
| EC-STR-11 | 08-01-12 | CULVERT PROTECTION TYPE 1 |
| EC-STR-11A | 08-01-12 | CULVERT PROTECTION TYPE 2 |
| EC-STR-12 | 08-01-12 | ROCK SEDIMENT DAM |
| 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 |

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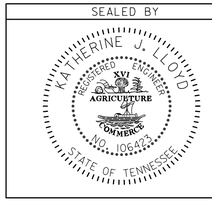


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 1A2 |
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# STANDARD ROADWAY DRAWINGS

| DWG. NO. | REV. | DESCRIPTION |
|---|---|---|
| **EROSION PREVENTION AND SEDIMENT CONTROL (CONT.)** | | |
| EC-STR-31 | 08-01-12 | TEMPORARY DIVERSION CHANNEL |
| EC-STR-31A | 04-01-08 | TEMPORARY DIVERSION CHANNEL DESIGN |
| EC-STR-33 | 08-01-12 | SUSPENDED PIPE DIVERSON (DOWNSTREAM) |
| EC-STR-34 | 08-01-12 | EROSION CONTROL BLANKET FOR SLOPE INSTALLATION |
| EC-STR-37 | 08-01-12 | SEDIMENT TUBE |
| EC-STR-39 | 08-01-12 | CURB INLET PROTECTION TYPE 1 & 2 |
| EC-STR-42 | | CATCH BASIN FILTER ASSEMBLY (TYPE 2) |
| EC-STR-42A | | CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS |
| EC-STR-43 | | CATCH BASIN FILTER ASSEMBLY (TYPE 3) |
| EC-STR-43A | | CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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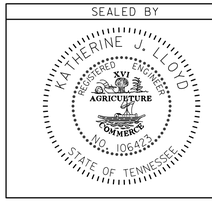


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2 |

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| | 105-01 | CONSTRUCTION STAKES, LINES AND GRADES | LS | 1 |
| | 201-01 | CLEARING AND GRUBBING | LS | 1 |
| (35) | 202-01.56 | REMOVAL OF STRUCTURES & OBSTRUCTIONS | LS | 1 |
| | 202-06.01 | REMOVAL OF BUILDINGS (TRACT NO. 27) | LS | 1 |
| | 202-06.02 | REMOVAL OF BUILDINGS (TRACT NO. 41) | LS | 1 |
| | 202-06.03 | REMOVAL OF BUILDINGS (TRACT NO. 44) | LS | 1 |
| | 202-03 | REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC. | S.Y. | 2179 |
| (24) | 203-01 | ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) | C.Y. | 258497 |
| (2) | 203-02.01 | BORROW EXCAVATION (GRADED SOLID ROCK) | TON | 92382 |
| | 203-04 | PLACING AND SPREADING TOPSOIL | C.Y. | 9465 |
| | 203-06 | WATER | M.G. | 554 |
| | 203-10.15 | WASTE MATERIAL | C.Y. | 117871 |
| | 203-15.03 | COMPACTED CLAY | C.Y. | 64 |
| (3) | 204-08 | FOUNDATION FILL MATERIAL | C.Y. | 650 |
| (4) | 204-08.01 | BACKFILL MATERIAL (FLOWABLE FILL) | C.Y. | 30 |
| (1) | 209-02.03 | 8" TEMPORARY SLOPE DRAIN | L.F. | 158 |
| (1) | 209-02.04 | 10" TEMPORARY SLOPE DRAIN | L.F. | 183 |
| (1) | 209-02.05 | 12" TEMPORARY SLOPE DRAIN | L.F. | 276 |
| (1) | 209-03.20 | FILTER SOCK (8 INCH) | L.F. | 1278 |
| (1) | 209-05 | SEDIMENT REMOVAL | C.Y. | 1096 |
| (1) | 209-08.02 | TEMPORARY SILT FENCE (WITH BACKING) | L.F. | 7513 |
| (1) | 209-08.03 | TEMPORARY SILT FENCE (WITHOUT BACKING) | L.F. | 36369 |
| (1) | 209-08.07 | ROCK CHECK DAM | EACH | 179 |
| (1) | 209-08.08 | ENHANCED ROCK CHECK DAM | EACH | 32 |
| (1) | 209-09.01 | SANDBAGS | BAG | 1240 |
| (5)(1) | 209-09.04 | SEDIMENT FILTER BAG(15' X 10') | EACH | 12 |
| (1) | 209-09.41 | CURB INLET PROTECTION (TYPE 2) | EACH | 17 |
| (1) | 209-40.33 | CATCH BASIN PROTECTION (TYPE D) | EACH | 135 |
| (1) | 209-40.42 | CATCH BASIN FILTER ASSEMBLY(TYPE 2) | EACH | 2 |
| (1) | 209-40.43 | CATCH BASIN FILTER ASSEMBLY(TYPE 3) | EACH | 3 |
| (1) | 209-65.03 | TEMPORARY DIVERSION CHANNEL | L.F. | 531 |
| (39)(1) | 209-65.04 | TEMPORARY IN STREAM DIVERSION | L.F | 1488 |
| (6) | 303-01 | MINERAL AGGREGATE, TYPE A BASE, GRADING D | TON | 68058 |
| (28)(7)(1) | 303-10.01 | MINERAL AGGREGATE (SIZE 57) | TON | 1359 |
| | 307-01.08 | ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 | TON | 811 |
| | 307-02.01 | ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A | TON | 19731 |
| | 307-02.02 | ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S | TON | 438 |
| | 307-02.03 | AGGREGATE (BPMB-HM) GRADING A-S MIX | TON | 8686 |
| | 307-02.08 | ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2 | TON | 12649 |
| | 402-01 | BITUMINOUS MATERIAL FOR PRIME COAT (PC) | TON | 179 |
| | 402-02 | AGGREGATE FOR COVER MATERIAL (PC) | TON | 667 |
| | 403-01 | BITUMINOUS MATERIAL FOR TACK COAT (TC) | TON | 43 |
| | 411-01.07 | ACS MIX (PG64-22) GRADING E SHOULDER | TON | 85 |
| | 411-01.10 | ACS MIX(PG64-22) GRADING D | TON | 1541 |
| | 411-02.10 | ACS MIX(PG70-22) GRADING D | TON | 6842 |
| (8) | 415-01.01 | COLD PLANING BITUMINOUS PAVEMENT | TON | 185 |
| | 604-10.51 | SCARIFYING | S.Y. | 480 |
| (40) | 607-03.02 | 18" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 11197 |
| (40) | 607-05.02 | 24" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 1235 |
| (40) | 607-06.02 | 30" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 217 |
| (40) | 607-07.02 | 36" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 902 |
| (40) | 607-08.02 | 42" CONCRETE PIPE CULVERT (CLASS III) | L.F | 1475 |
| (40) | 607-09.02 | 48" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 69 |
| (40) | 607-10.02 | 54" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 715 |
| (40) | 607-11.03 | 60" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 442 |
| (40) | 607-16.02 | 30"X 19" HORIZONTAL OVAL CONCRETE PIPE CULVERT | L.F. | 382 |
| (40) | 607-16.04 | 38"X 24" HORIZONTAL OVAL CONCRETE PIPE CULVERT | L.F. | 137 |

**FOOTNOTES: SEE SHT. 2A**

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| | 607-17.34 | 34"X 22" HORIZONTAL OVAL CONCRETE PIPE CULVERT | L.F. | 36 |
| | 607-39.02 | 18" PIPE CULVERT (SIDE DRAIN) | L.F. | 264 |
| | 607-39.03 | 24" PIPE CULVERT (SIDE DRAIN) | L.F. | 201 |
| | 607-39.04 | 30" PIPE CULVERT (SIDE DRAIN) | L.F. | 296 |
| | 607-39.05 | 36" PIPE CULVERT (SIDE DRAIN) | L.F. | 75 |
| | 607-39.06 | 42" PIPE CULVERT (SIDE DRAIN) | L.F. | 79 |
| | 607-39.07 | 48" PIPE CULVERT (SIDE DRAIN) | L.F. | 71 |
| (23) | 607-16.04 | 38"X 24" HORIZONTAL OVAL CONCRETE PIPE CULVERT | L.F. | 67 |
| (23) | 607-16.05 | 45"X 29" HORIZONTAL OVAL CONCRETE PIPE CULVERT | L.F. | 52 |
| | 611-01.02 | MANHOLES, > 4' - 8' DEPTH | EACH | 4 |
| | 611-02.02 | SPRING DRAIN BOX, TYPE 2A | EACH | 1 |
| | 611-02.10 | JUNCTION BOX, TYPE 1 | EACH | 5 |
| | 611-02.11 | JUNCTION BOX, TYPE 2 | EACH | 8 |
| | 611-02.12 | JUNCTION BOX, TYPE 3 | EACH | 1 |
| | 611-02.13 | JUNCTION BOX, TYPE 4 | EACH | 2 |
| | 611-07.01 | CLASS A CONCRETE (PIPE ENDWALLS) | C.Y. | 103 |
| | 611-07.02 | STEEL BAR REINFORCEMENT (PIPE ENDWALLS) | LB. | 1294 |
| (33) | 611-07.32 | 24IN ENDWALL (SIDE DRAIN) | EACH | 12 |
| (33) | 611-07.33 | 30IN ENDWALL (SIDE DRAIN) | EACH | 10 |
| (33) | 611-07.34 | 36IN ENDWALL (SIDE DRAIN) | EACH | 6 |
| (33) | 611-07.35 | 42IN ENDWALL (SIDE DRAIN) | EACH | 8 |
| (33) | 611-07.36 | 48IN ENDWALL (SIDE DRAIN) | EACH | 8 |
| | 611-09.01 | ADJUSTMENT OF EXISTING CATCHBASIN | EACH | 2 |
| | 611-09.03 | CAPPING EXISTING CATCHBASIN | EACH | 4 |
| | 611-12.01 | CATCH BASINS, TYPE 12, 0' - 4' DEPTH | EACH | 55 |
| | 611-12.02 | CATCH BASINS, TYPE 12, > 4' - 8' DEPTH | EACH | 27 |
| | 611-12.03 | CATCH BASINS, TYPE 12, > 8' - 12' DEPTH | EACH | 8 |
| | 611-12.04 | CATCH BASINS, TYPE 12, > 12' - 16' DEPTH | EACH | 2 |
| | 611-14.02 | CATCH BASINS, TYPE 14, > 4' - 8' DEPTH | EACH | 13 |
| | 611-42.01 | CATCH BASINS, TYPE 42, > 0' - 4' DEPTH | EACH | 2 |
| | 611-42.02 | CATCH BASINS, TYPE 42, > 4' - 8' DEPTH | EACH | 5 |
| | 621-03.03 | 24" TEMPORARY DRAIN PIPE | L.F. | 26 |
| | 621-03.07 | 48" TEMPORARY DRAIN PIPE | L.F. | 90 |
| | 701-01.01 | CONCRETE SIDEWALK (4 ") | S.F. | 122677 |
| | 701-02.03 | CONCRETE HANDICAP RAMP | S.F. | 3484 |
| | 702-01 | 6" NON-MOUNTABLE TYPE A CURB | C.Y. | 18 |
| | 702-03 | CONCRETE COMBINED CURB & GUTTER | C.Y. | 1745 |
| (9) | 703-01 | CEMENT CONCRETE DITCH PAVING | C.Y. | 4 |
| | 705-01.01 | GUARDRAIL AT BRIDGE ENDS | L.F. | 82 |
| | 705-01.04 | METAL BEAM GUARD FENCE | L.F. | 124 |
| | 705-02.02 | SINGLE GUARDRAIL (TYPE 2) | L.F. | 1520 |
| | 705-04.04 | GUARDRAIL TERMINAL (TYPE 21) | EACH | 5 |
| | 705-04.05 | GUARDRAIL TERMINAL (TYPE-IN-LINE) | EACH | 10 |
| | 705-04.07 | TAN ENERGY ABSORBING TERM (NCHRP 350, TL3) | EACH | 5 |
| (34) | 705-08.51 | PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3 | EACH | 11 |
| (10) | 706-01 | GUARDRAIL REMOVED | L.F. | 1093 |
| | 706-06.03 | RADIUS RAIL | L.F. | 37 |
| | 707-08.11 | HIGH-VISIBILITY CONSTRUCTION FENCE | L.F. | 1295 |
| | 708-02.01 | MARKERS (CONCRETE R.O.W. POSTS) | EACH | 112 |
| (11)(1) | 709-05.05 | MACHINED RIP-RAP (CLASS A-3) | TON | 662 |
| (25)(1) | 709-05.06 | MACHINED RIP-RAP (CLASS A-1) | TON | 7337 |
| (12)(1) | 709-05.08 | MACHINED RIP-RAP (CLASS B) | TON | 871 |
| (26)(1) | 709-05.09 | MACHINED RIP-RAP (CLASS C) | TON | 68 |

**FOOTNOTES: SEE SHT. 2A**

**UNOFFICIAL SET**

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REGISTERED ENGINEER
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

SHEET 1 OF 2

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2A |

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| | 710-02 | AGGREGATE UNDERDRAINS (WITH PIPE) | L.F. | 15085 |
| | 710-05 | LATERAL UNDERDRAIN | L.F. | 300 |
| | | | | |
| | 712-01 | TRAFFIC CONTROL | LS | 1 |
| | | | | |
| (13) | 712-02.02 | INTERCONNECTED PORTABLE BARRIER RAIL | L.F. | 7759 |
| (13) | 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | 560 |
| (13) | 712-04.50 | PORTABLE BARRIER RAIL DELINEATOR | EACH | 197 |
| (13) | 712-05.01 | WARNING LIGHTS (TYPE A) | EACH | 36 |
| (13) | 712-05.03 | WARNING LIGHTS (TYPE C) | EACH | 87 |
| (13) | 712-06 | SIGNS (CONSTRUCTION) | S.F. | 1267 |
| (13) | 712-07.03 | TEMPORARY BARRICADES (TYPE III) | L.F. | 662 |
| (13) | 712-08.03 | ARROW BOARD (TYPE C) | EACH | 2 |
| | | | | |
| | 713-11.01 | "U" SECTION STEEL POSTS | LB. | 706 |
| | 713-11.02 | PERFORATED/KNOCKOUT SQUARE TUBE POST | LB. | 1788 |
| | 713-11.21 | P POST SLIP BASE | EACH | 1 |
| | 713-13.02 | FLAT SHEET ALUMINUM SIGNS (0.080" THICK) | S.F. | 375 |
| | 713-13.03 | FLAT SHEET ALUMINUM SIGNS (0.100" THICK) | S.F. | 242 |
| (37) | 713-15 | REMOVAL OF SIGNS, POSTS AND FOOTINGS | LS | 1 |
| | | | | |
| (38) | 716-01.05 | TEMPORARY RAISED PAVEMENT MARKER | EACH | 293 |
| | | | | |
| | 716-01.21 | Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color) | EACH | 465 |
| | 716-01.22 | Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color) | EACH | 410 |
| (36) | 716-02.03 | PLASTIC PAVEMENT MARKING (CROSS-WALK) | L.F. | 1070 |
| (36) | 716-02.04 | PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING) | S.Y. | 472 |
| (36) | 716-02.05 | PLASTIC PAVEMENT MARKING (STOP LINE) | L.F. | 621 |
| (36) | 716-02.06 | PLASTIC PAVEMENT MARKING (TURN LANE ARROW) | EACH | 55 |
| (36) | 716-02.08 | PLASTIC PAVEMENT MARKING (8" DOTTED LINE) | L.F. | 898 |
| (36) | 716-04.01 | PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW) | EACH | 1 |
| (36) | 716-04.05 | PLASTIC PAVEMENT MARKING (STRAIGHT ARROW) | EACH | 7 |
| (36) | 716-04.14 | PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW) | EACH | 8 |
| (36) | 716-04.15 | PLASTIC PAVEMENT MARKING-BIKE SYMBOL/ARROW SHARED | EACH | 57 |
| | | | | |
| (14) | 716-05.01 | PAINTED PAVEMENT MARKING (4" LINE) | L.M. | 32.21 |
| (14) | 716-05.02 | PAINTED PAVEMENT MARKING (8" BARRIER LINE) | L.F. | 8244 |
| (14) | 716-05.04 | PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING) | S.Y. | 53 |
| (14) | 716-05.05 | PAINTED PAVEMENT MARKING (STOP LINE) | L.F. | 1633 |
| | | | | |
| (41) | 716-08.01 | REMOVAL OF PAVEMENT MARKING (LINE) | L.F. | 800 |
| (42) | 716-08.04 | REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING) | S.Y. | 15 |
| (43) | 716-08.06 | REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW) | EACH | 1 |
| | | | | |
| (30) | 716-13.01 | SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE) | L.M. | 9.35 |
| (31) | 716-13.02 | SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE) | L.M. | 4.38 |
| (30) | 716-13.04 | SPRAY THERMO PVMT MRKNG (60 mil) (4IN DOTTED LINE) | L.F. | 747 |
| (31) | 716-13.05 | SPRAY THERMO PVMT MRKNG (60 mil) (6IN DOTTED LINE) | L.F. | 1016 |
| | | | | |
| | 717-01 | MOBILIZATION | LS | 1 |
| | | | | |
| | 740-06.01 | GEOMEMBRANE | S.Y. | 279 |
| | | | | |
| (29)(1) | 740-10.03 | GEOTEXTILE (TYPE III)(EROSION CONTROL) | S.Y. | 20164 |
| (27) | 740-10.04 | GEOTEXTILE (TYPE IV)(STABILIZATION) | S.Y. | 68571 |
| | | | | |
| (1) | 740-11.01 | TEMPORARY SEDIMENT TUBE 8 INCH | L.F. | 1100 |
| (1) | 740-11.03 | TEMPORARY SEDIMENT TUBE 18 INCH | L.F. | 3729 |
| | | | | |
| (15) | 801-01 | SEEDING (WITH MULCH) | UNIT | 223 |
| (1) | 801-01.07 | TEMPORARY SEEDING (WITH MULCH) | UNIT | 172 |
| (16)(1) | 801-02 | SEEDING (WITHOUT MULCH) | UNIT | 343 |
| (17)(1) | 801-03 | WATER (SEEDING & SODDING) | M.G. | 547 |
| | | | | |
| (18) | 802-11.02 | ACER RUBRUM (RED MAPLE 2-5FT CNTNR GRWN) | EACH | 9 |
| (18) | 802-11.12 | CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN) | EACH | 8 |
| (18) | 802-11.26 | PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN) | EACH | 8 |
| (18) | 802-11.40 | SALIX NIGRA (BLACK WILLOW 2-5FT CNTNR GRWN) | EACH | 53 |
| | | | | |
| (19)(1) | 803-01 | SODDING (NEW SOD) | S.Y. | 50250 |
| (20)(1) | 805-01.01 | TURF REINFORCEMENT MAT (CLASS I) | S.Y. | 12531 |
| (1) | 805-12.02 | EROSION CONTROL BLANKET (TYPE II) | S.Y. | 23886 |
| | | | | |

## ESTIMATED BRIDGE QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| (10) | 202-04.51 | REMOVAL OF STRUCTURES (8' X 6' BOX BRIDGE, STA. 218+96.74 18' RT.) | LS | 1 |
| | | | | |
| | 303-01.02 | GRANULAR BACKFILL (BRIDGES) | TON | 2217 |
| (45)(32)(21) | 604-02.01 | CLASS A CONCRETE (BOX BRIDGES) | C.Y. | 1,789 |
| (46)(32)(22) | 604-02.02 | STEEL BAR REINFORCEMENT (BOX BRIDGES) | LB. | 374,411 |
| | 607-50.04 | PRECAST CONCRETE BOX CULVERT (10' X 4') | L.F. | 57 |
| (44) | 620-03 | CONCRETE PARAPET (EXISTING BOX BRIDGE STA. 238+71.04) | L.F. | 58 |

**FOOTNOTES:**

(1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(2) 103 TONS FOR SINKHOLE TREATMENT AND 92279 TONS FOR ROADWAY, REFER TO SOIL SHEETS FOR DETAIL.
(3) TO BE USED FOR BOX CULVERTS AND BRIDGES
(4) FOR CAPPING OF EXISTING 36" PIPE AT INLET STA. 235+15.75, OFFSET RIGHT 34.57'. ALSO FOR CAPPING OF EXISTING CROSS DRAINS AS SHOWN ON PLANS.
(5) QUANTITIES SHOWN REFLECT 3 REPLACEMENTS.
(6) INCLUDES 5661 TONS FOR MAINTENANCE OF TRAFFIC.
(7) INCLUDES 56 TONS FOR SINKHOLE TREATMENT
(8) TO BE USED FOR TYING INTO SIDE ROADS.
(9) SEE SHT. 7B STA. 182+68.21 RT. OFFSET 67.02'
(10) TO BECOME PROPERTY OF CONTRACTOR.
(11) FOR TEMPORARY CONSTRUCTION EXITS WHERE DIRECTED BY THE ENGINEER.
(12) 230 TONS FOR SLOPE PROTECTION AT WINGWALLS AND 23 TONS FOR OUTLET PROTECTION AT ENDWALLS.
(13) QUANTITIES SHOWN REFLECT THE MAXIMUM REQUIRED FOR A SINGLE PHASE OF TRAFFIC CONTROL. ITEMS ARE TO BE REUSED THROUGHOUT THE VARIOUS PHASES REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.
(14) FOR USE WITH TRAFFIC CONTROL.
(15) TO BE USED FOR EXCESS MATERIAL TO BE WASTED.
(16) INCLUDES 133 UNITS TO BE USED WITH TURF REINFORCEMENT MAT (CLASS I)
(17) INCLUDES 21 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(18) TO BE USED FOR STREAM AND WETLAND MITIGATION
(19) INCLUDES 4862 S.Y. FOR ROADWAY DITCH LINING
(20) TO BE USED FOR ROADWAY DITCH LINING
(21) INCLUDES 47 C.Y. FOR SIDE DRAIN BOX CULVERTS , SEE SHT. 8B FOR LOCATION.
(22) INCLUDES 12056 LBS. FOR SIDE DRAIN BOX CULVERTS, SEE SHT. 8B FOR LOCATION.
(23) TO BE USED FOR SIDE DRAIN
(24) INCLUDES 7943 C.Y. FOR EROSION CONTROL.
(25) INCLUDES 42 TONS FOR OUTLET PROTECTION AND 280 TONS FOR CULVERT PROTECTION.
(26) FOR OUTLET PROTECTION AT ENDWALL EW-2.
(27) INCLUDES 67911 S.Y. FOR USE WITH GRADED SOLID ROCK FOR ROADWAY & 80 S.Y. FOR SINKHOLE TREATMENT, REFER TO SOIL SHEETS FOR DETAIL. ALSO INCLUDES 580 S.Y. FOR EROSION CONTROL.
(28) INCLUDES 1303 TONS FOR EROSION CONTROL.
(29) INCLUDES 2556 S.Y. FOR CULVERT INLET PROTECTION.
(30) FOR USE ON SIDE ROADS.
(31) FOR S.R. 317 (APISON PIKE)
(32) TOP SLAB TO BE USED AS RIDING SURFACE FOR BOX BRIDGE AT STA. 219+30.37 S.R. 317.
(33) INLET ENDWALLS ARE TO BE BEVELED AT 45 DEGREE.
(34) 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 MANUFACTURING'S DRAWING.
(35) FOR REMOVAL OF EXISTING CATCHBASINS, MANHOLES, JUNCTION BOXES, CROSS DRAINS, AND PIPES AS INDICATED ON PLANS.
(36) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME PRICE BID AS THE PREFORMED PLASTIC.
(37) REMOVE SIGN & SUPPORT (NO FOOTINGS ON THESE SIGNS) ON APPROXIMATELY THIRTY (30) SIGNS WITHIN THE GRADING LIMITS OR AS DIRECTED BY THE ENGINEER.
(38) QUANTITIES SHOWN REFLECT THE MAXIMUM REQUIRED FOR TWO PHASES OF TRAFFIC CONTROL. ITEMS ARE TO BE REUSED THROUGHOUT THE VARIOUS PHASES AS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.
(39) REFER TO STANDARD DRAWING EC-STR-30A FOR CLARIFICATION.
(40) THE COST OF TYING AND, OR STUBBING INTO EXISTING OR PROPOSED STRUCTURES WILL NOT BE PAID FOR DIRECTLY, BUT TO BE INCLUDED IN OTHER ITEMS.
(41) 266 L.F. WEST AND 534 L.F. EAST OF OLD LEE HIGHWAY.
(42) EAST OF OLD LEE HIGHWAY BETWEEN STA. 138+50 TO STA. 141+30.
(43) RIGHT TURN ARROW, WEST OF OLD LEE HIGHWAY.
(44) TO BE TEXTURE COATED.
(45) INCLUDES 13 C.Y. FOR CANTILEVER BEAM EXTENSION.
(46) INCLUDES 11,500 LBS. FOR CANTILEVER BEAM EXTENSION.

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DEPARTMENT OF TRANSPORTATION

# ESTIMATED QUANTITIES

SHEET 2 OF 2

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2B |

## ESTIMATED UTILITIES QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|
| 790-01.03 | POLE 30FT CLASS 4 WOOD | EACH | 1 |
| 790-02.01 | POLE 35FT CLASS 2 WOOD | EACH | 7 |
| 790-02.03 | POLE 35FT CLASS 4 WOOD | EACH | 1 |
| 790-02.09 | POLE 35FT CLASS H2 METAL | EACH | 1 |
| 790-04.04 | POLE 45FT CLASS 4 WOOD | EACH | 2 |
| 790-05.02 | POLE 50FT CLASS 2 WOOD | EACH | 20 |
| 790-05.04 | POLE 50FT CLASS 4 WOOD | EACH | 1 |
| 790-05.06 | POLE 50FT CLASS 2 METAL | EACH | 3 |
| 790-05.08 | POLE 50FT CLASS H2 METAL | EACH | 1 |
| 790-06.01 | POLE 55FT CLASS 1 WOOD | EACH | 4 |
| 790-07.01 | POLE 60FT CLASS 1 WOOD | EACH | 1 |
| 790-07.08 | POLE 60FT CLASS H2 METAL | EACH | 1 |
| 790-13.07 | POLE 90FT CLASS H4 METAL | EACH | 1 |
| 790-20.01 | POLE 55FT CLASS H2 METAL | EACH | 1 |
| 790-21.01 | 1Ø SGL PRIMARY SUPPORT 15KV | EACH | 6 |
| 790-21.05 | 1Ø DBL PRIMARY SUPPORT 15KV | EACH | 1 |
| 790-21.08 | 1Ø DEADEND 15KV | EACH | 12 |
| 790-21.10 | 1Ø VERTICAL DDE 15KV | EACH | 2 |
| 790-23.01 | 2Ø CROSSARM SGL PRIM SUPPORT 15KV | EACH | 2 |
| 790-23.06 | 2Ø VERTICAL CONST DEADEND (SGL) 15KV | EACH | 2 |
| 790-23.07 | 2Ø CROSSARM CONST DEADEND (SGL) 15KV | EACH | 1 |
| 790-25.01 | 3Ø CROSSARM SGL 15KV | EACH | 6 |
| 790-25.08 | 3Ø CROSSARM SGL LRG COND 15KV | EACH | 7 |
| 790-25.10 | 3Ø CROSSARM DBL DBL PRIM SUPPORT 15KV | EACH | 2 |
| 790-25.21 | 3Ø CROSSARM DEADEND SGL 15KV | EACH | 12 |
| 790-25.23 | 3Ø CROSSARM DDE 15KV | EACH | 1 |
| 790-25.24 | 3Ø CROSSARM DDE LRG COND 15KV | EACH | 2 |
| 790-30.03 | SECONDARY ASSEMBLIES DEADEND | EACH | 1 |
| 790-32.06 | DOWN GUY - INSULATED | EACH | 41 |
| 790-32.07 | OH GUY - THROUGH BOLT TYPE | EACH | 13 |
| 790-33.20 | ANCHOR TRIPLE EYE POWER INSTALLED | EACH | 25 |
| 790-36.01 | SWITCH-900A-UNDERSLUNG | EACH | 6 |
| 790-36.02 | TRANSFER CAPACITOR BANK | EACH | 1 |
| 790-36.04 | TRANSFER SERVICE | EACH | 7 |
| 790-36.05 | TRANSFER SECONDARY | EACH | 8 |
| 790-36.06 | TRANSFER LIGHT | EACH | 8 |
| 790-40.03 | OH COND 1/0 6/1 ACSR RAVEN | L.F. | 4746 |
| 790-40.39 | OH COND 4/0 7 AAC OXLIP | L.F. | 1184 |
| 790-40.73 | OH COND 1033 37 AAC BLUEBELL | L.F. | 1032 |
| 790-41.03 | UG PRI COND 1/0AL 15KV | L.F. | 305 |
| 790-41.43 | UG PRI COND (2 1/0AL CD | L.F. | 40 |
| 790-46.01 | 1Ø TRANSFORMER | EACH | 20 |
| 790-58.03 | CUTOUT KNIFE SWITCH, SNGL LOADBREAK 15KV | EACH | 9 |
| 790-60.01 | 1Ø FUSE CUTOUT XARM MOUNT 15KV | EACH | 27 |
| 790-60.02 | 1Ø FUSE CUTOUT BRKT MOUNT 15KV | EACH | 6 |
| 790-65.03 | LIGHTNING ARRESTER ARM MTD 9 KV | EACH | 29 |
| 790-68.01 | POLE GROUND ROD TYPE | EACH | 17 |
| 790-68.10 | MISCELLANEOUS ASSEMBLIES | EACH | 319 |
| 790-68.11 | DEAD END SHOE | EACH | 74 |
| 790-68.13 | SGL PHASE MOUNTING BRACKET - FIBERGLASS | EACH | 6 |
| 790-71.69 | VERTICAL DDE 161KV MAX | EACH | 1 |
| 790-73.03 | LINE POST CLAMP | EACH | 30 |
| 790-98.01 | REMOVE WIRE | L.F. | 6693 |
| 790-98.02 | REMOVE POLES | EACH | 41 |
| 790-98.03 | REMOVE FRAMING/ASSOCIATED APPARATUS | EACH | 277 |
| 793-01.08 | POLE 35FT CLASS 5 WOOD | EACH | 1 |
| 793-01.40 | ANCHOR 3/4IN | EACH | 10 |
| 793-01.41 | ANCHOR 1IN | EACH | 3 |
| 793-02.07 | GUY WIRE 6.6M OR 1/4IN | EACH | 10 |
| 793-03.01 | 25 PAIR GROUP AERIAL SPLICE | EACH | 6 |
| 793-03.02 | 6M STRAND | L.F. | 500 |
| 793-04.01 | RELASH/DELASH CABLE | L.F. | 300 |
| 793-04.02 | 2 PAIR AERIAL DROP | L.F. | 1560 |
| 793-04.03 | 6 PAIR AERIAL DROP | L.F. | 1555 |
| 793-04.06 | READY ACCESS CLOSURE | EACH | 2 |

## ESTIMATED UTILITIES QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|
| 793-04.08 | TRANSFER AERIAL CABLE | EACH | 5 |
| 793-04.09 | TRANSFER AERIAL DROP | EACH | 4 |
| 793-04.12 | UNDERGROUND SPLICE CLOSURE | EACH | 45 |
| 793-07.02 | 24 FIBER(MATERIAL ONLY) | L.F. | 6265 |
| 793-07.05 | 96 FIBER(MATERIAL ONLY) | L.F. | 8555 |
| 793-07.07 | 144 FIBER(MATERIAL ONLY) | L.F. | 1030 |
| 793-07.16 | 12-96 FIBER(INSTALLATION ONLY) | L.F. | 14820 |
| 793-07.17 | 108-144 FIBER(INSTALLATION ONLY) | L.F. | 1030 |
| 793-07.22 | FIBER SPLICE-12 FIBER RIBBON | EACH | 1200 |
| 793-07.23 | FIBER OPTIC MAINTENANCE LOOP | EACH | 24 |
| 793-11.11 | 12IN PEDESTAL W/TERMINAL | EACH | 36 |
| 793-11.13 | BURIED RISER GUARD | EACH | 4 |
| 793-11.14 | 2 PAIR BURIED DROP | L.F. | 1080 |
| 793-11.17 | COMPOSITE HANDHOLE 5FTX3FTX3FT | EACH | 34 |
| 793-11.20 | HANDHOLE 30INX48IN | EACH | 5 |
| 793-12.02 | REARRANGEMENT EXISTING CABLE | EACH | 28 |
| 793-12.03 | 100 PAIR UG CABLE | L.F. | 2710 |
| 793-12.05 | 200 PAIR UG CABLE | L.F. | 2890 |
| 793-12.06 | 300 PAIR UG CABLE | L.F. | 845 |
| 793-12.07 | 400 PAIR UG CABLE | L.F. | 1725 |
| 793-12.08 | 600 PAIR UG CABLE | L.F. | 4060 |
| 793-12.09 | 900 PAIR UG CABLE | L.F. | 1960 |
| 793-12.17 | UG CABLE(50 PAIR) | L.F. | 4791 |
| 793-13.06 | 25 PAIR GROUP UG SPLICE | EACH | 862 |
| 793-13.07 | 4IN SCHEDULE 40 PVC | L.F. | 2092 |
| 793-13.12 | 1 DUCT FORMATION @ 36IN DEPTH | L.F. | 2092 |
| 793-13.12 | 1 DUCT FORMATION @ 36IN DEPTH | L.F. | 1235 |
| 793-13.17 | 2 DUCT FORMATION @ 36IN DEPTH | L.F. | 11890 |
| 793-13.27 | 4 DUCT FORMATION @ 36IN DEPTH | L.F. | 3630 |
| 793-13.32 | 6 DUCT FORMATION @ 36IN DEPTH | L.F. | 2880 |
| 793-14.01 | SAND ENDCASEMENT PER DUCT | L.F. | 19635 |
| 793-14.03 | MH PRECAST 6-FT W X 12-FT L X 7-FT H | EACH | 11 |
| 793-14.10 | 4IN CORE DRILL INTO MANHOLE | EACH | 2 |
| 793-14.12 | 1 1/4IN INNERDUCT | L.F. | 2092 |
| 793-14.12 | 1 1/4IN INNERDUCT | L.F. | 37925 |
| 793-14.21 | ROD DUCTS | L.F. | 2092 |
| 793-15.07 | PAD MOUNTED CARRIER | EACH | 1 |
| 793-16.01 | MH(RETIRE/REMOVE/GRAVEL BACKFILL) | EACH | 7 |
| 793-16.04 | DIRECTIONAL BORE 4IN/FLEX SLEEVE | L.F. | 2400 |
| 793-16.21 | ADJUST MANHOLE LID | EACH | 1 |
| 793-97.01 | RESTORE ASPHALT | S.Y. | 45 |
| 793-98.01 | REMOVE AERIAL CABLE AND WIRE | L.F. | 21260 |
| 793-98.02 | REMOVE CROSSCONNECT CABINET | EACH | 1 |
| 793-98.03 | REMOVE CARRIER CABINET | EACH | 1 |
| 793-98.04 | REMOVE POLES ALL SIZES | EACH | 67 |
| 793-98.05 | RETIRE BURIED FACILITIES IN PLACE | L.F. | 2110 |
| 793-98.06 | REMOVE PEDESTALS | EACH | 19 |
| 793-98.08 | REMOVE ANCHOR (ANY SIZE) | EACH | 4 |
| 793-99.01 | REMOVE HANDHOLE 30INX42IN | EACH | 1 |
| 795-01.06 | 8IN DIP SLIP JOINT WATER LINE | L.F. | 4557 |
| 795-01.10 | 12IN DIP SLIP JOINT WATER LINE | L.F. | 761 |
| 795-01.20 | 24IN DIP SLIP JOINT WATER LINE | L.F. | 8312 |
| 795-06.01 | CONNECT TO 2IN WATER LINE | EACH | 1 |
| 795-06.05 | CONNEDT TO 8IN WATER LINE | EACH | 1 |
| 795-06.07 | CONNECT TO 12IN WATER LINE | EACH | 1 |
| 795-06.12 | CONNECT TO 24IN WATER LINE | EACH | 2 |
| 795-07.03 | 6IN X 6IN TAPPING SLEEVE AND VALVE | EACH | 3 |
| 795-07.06 | 8IN X 8IN TAPPING SLEEVE AND VALVE | EACH | 3 |
| 795-07.15 | 12IN X 12IN TAPPING SLEEVE AND VALVE | EACH | 6 |
| 795-07.31 | INSERTION VALVE (6IN) | EACH | 3 |
| 795-07.32 | INSERTION VALVE (8IN) | EACH | 4 |
| 795-07.34 | INSERTION VALVE (12IN) | EACH | 3 |
| 795-08.05 | 8IN GATE VALVE ASSEMBLY | EACH | 21 |
| 795-08.09 | 12IN GATE VALVE ASSEMBLY | EACH | 5 |
| 795-08.19 | 24IN BUTTERFLY VALVE ASSEMBLY | EACH | 9 |
| 795-09.01 | 3/4IN WATER SERVICE METER ASSEMBLY | EACH | 52 |
| 795-09.28 | 3/4IN COPPER SERVICE PIPE | L.F. | 2006 |
| 795-09.29 | 1IN COPPER SERVICE PIPE | L.F. | 90 |
| 795-11.02 | FIRE HYRANT ASSEMBLY | EACH | 2 |
| 795-11.04 | RELOCATE FIRE HYRANT | EACH | 7 |

## ESTIMATED UTILITIES QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|
| 795-12.02 | REMOVAL OF EXISTING LINE | LS | 1 |
| 795-13.01 | DI FITTINGS | LBS | 16230 |
| 795-14.05 | CONCRETE ENCASEMENT | LF | 20 |
| 795-15.03 | 14IN STEEL CASING PIPE OPEN CUT METHOD | L.F. | 384 |
| 795-15.04 | 18IN STEEL CASING PIPE OPEN CUT METHOD | L.F. | 325 |
| 795-15.11 | 36IN STEEL CASING PIPE OPEN CUT METHOD | L.F. | 530 |
| 797-01.15 | 10 IN EPOXY COATED DIP FORCE MAIN | LF | 3100 |
| 797-01.18 | 16 IN EPOXY COATED DIP FORCE MAIN | LF | 200 |
| 797-01.20 | 24 IN EPOXY COATED DIP FORCE MAIN | LF | 4820 |
| 797-05.01 | 8IN DIP GRAVITY SEWER 0FT-6FT DEPTH | LF | 28 |
| 797-05.02 | 8 IN DIP GRAVITY SEWER 6 FT - 12 FT DEPTH | LF | 220 |
| 797-05.03 | 8 IN DIP GRAVITY SEWER 12 FT - 18 FT DEPTH | LF | 16 |
| 797-05.06 | 10 IN DIP GRAVITY SEWER 6 FT - 12 FT DEPTH | LF | 364 |
| 797-05.27 | 36 IN DIP GRAVITY SEWER 12 FT - 18 FT DEPTH | LF | 110 |
| 797-05.30 | 30 IN DIP GRAVITY SEWER 6 FT - 12 FT DEPTH | LF | 125 |
| 797-05.31 | 30 IN DIP GRAVITY SEWER 12 FT - 18 FT DEPTH | LF | 250 |
| 797-05.51 | 8 IN PVC GRAVITY SEWER 0 FT - 6 FT DEPTH | LF | 573 |
| 797-05.52 | 8 IN PVC GRAVITY SEWER 6 FT - 12 FT DEPTH | LF | 4335 |
| 797-05.53 | 8 IN PVC GRAVITY SEWER 12 FT - 18 FT DEPTH | LF | 1148 |
| 797-05.64 | 15 IN PVC GRAVITY SEWER 6 FT - 12 FT DEPTH | LF | 15 |
| 797-05.65 | 15 IN PVC GRAVITY SEWER 12 FT - 18 FT DEPTH | LF | 156 |
| 797-06.90 | OPEN CUT 16 IN STEEL CASING PIPE | LF | 460 |
| 797-06.92 | OPEN CUT 20 IN STEEL CASING PIPE | LF | 70 |
| 797-06.97 | OPEN CUT 54 IN STEEL CASING PIPE | LF | 117 |
| 797-07.02 | 48 IN MANHOLE 4 FT - 6 FT DEPTH | EACH | 2 |
| 797-07.03 | 48 IN MANHOLE 6 FT - 8 FT DEPTH | EACH | 4 |
| 797-07.04 | 48 IN MANHOLE 8 FT - 10 FT DEPTH | EACH | 11 |
| 797-07.05 | 48 IN MANHOLE 10 FT - 12 FT DEPTH | EACH | 5 |
| 797-07.06 | 48 IN MANHOLE 12 FT - 14 FT DEPTH | EACH | 5 |
| 797-07.07 | 48 IN MANHOLE 14 FT - 16 FT DEPTH | EACH | 1 |
| 797-07.08 | 48 IN MANHOLE 16 FT - 20 FT DEPTH | EACH | 1 |
| 797-07.15 | 60 IN MANHOLE 8 FT - 10 FT DEPTH | EACH | 1 |
| 797-07.17 | 60 IN MANHOLE 12 FT - 14 FT DEPTH | EACH | 2 |
| 797-07.18 | 60 IN MANHOLE 14 FT - 16 FT DEPTH | EACH | 1 |
| 797-07.36 | 84 IN MANHOLE 6 FT- 8 FT DEPTH | EACH | 1 |
| 797-07.56 | MANHOLE DROP CONNECTION ASSEMBLY | EACH | 1 |
| 797-08.05 | 6" PVC PIPE FOR SERVICE LATERAL | LF | 500 |
| 797-09.09 | 10 IN PLUG VALVE ASSEMBLY | EACH | 2 |
| 797-09.11 | 16 IN PLUG VALVE ASSEMBLY | EACH | 1 |
| 797-09.15 | 24 IN PLUG VALVE ASSEMBLY | EACH | 2 |
| 797-09.26 | 2 IN AIR/VAC VALVE ASSEMBLY | EACH | 2 |
| 797-09.28 | 4 IN AIR/VAC VALVE ASSEMBLY | EACH | 3 |
| 797-10.02 | CONNECT 8 IN SEWER TO EXIST. MANHOLE | EACH | 2 |
| 797-10.09 | CONNECT EX. 8 IN SEWER TO NEW MANHOLE | EACH | 3 |
| 797-10.10 | CONNECT EX. 10-18 IN SEWER TO NEW MANHOLE | EACH | 2 |
| 797-11.38 | BY-PASS PUMPING | LS | 1 |
| 797-11.39 | TV INSPECTION | LF | 7000 |

NOTE: SEE SHEET U1-1 FOR INDEX OF UTILITY SHEETS. APPLICABLE FOOTNOTES FOR ESTIMATED UTILITIES QUANTITIES WILL BE ON THE UTILITY TABULATION BLOCKS.

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# ESTIMATED UTILITIES QUANTITIES

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2C |

## ESTIMATED SIGNAL QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|---|
| (1) | 713-15.07 | SUSPENDED FLAT SHEET ALUMINUM SIGN (0.080" THICK) | EACH | 10 |
| (2) | 713-15.40 | SIGN INSTALLATION (STREET NAME SIGNS) | LS | 1 |
| (3) | 730-01.02 | REMOVAL OF SIGNAL EQUIPMENT | EACH | 2 |
| (4) | 730-02.09 | SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE) | EACH | 17 |
| (4) | 730-02.17 | SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE) | EACH | 6 |
| (4) | 730-02.30 | SIGNAL HEAD ASSEMBLY (130 A3 WITH BACKPLATE) | EACH | 12 |
| | 730-03.21 | INSTALL PULL BOX (TYPE B) | EACH | 4 |
| | 730-03.23 | INSTALL PULL BOX (FIBER OPTIC-TYPE A) | EACH | 5 |
| (5) | 730-05.01 | ELECTRICAL SERVICE CONNECTION | EACH | 3 |
| | 730-08.01 | SIGNAL CABLE - 3 CONDUCTOR | L.F. | 2397 |
| | 730-08.02 | SIGNAL CABLE - 5 CONDUCTOR | L.F. | 3669 |
| | 730-08.04 | SIGNAL CABLE - 9 CONDUCTOR | L.F. | 3143 |
| | 730-08.40 | INTERCONNECT CABLE - FIBER OPTIC (12 FIBER SINGLE MODE) | L.F. | 2606 |
| | 730-12.02 | CONDUIT 2" DIAMETER (PVC) | L.F. | 2839 |
| (6) | 730-12.16 | CONDUIT (2" DIAMETER SCHEDULE 80 PVC) | L.F. | 64 |
| | 730-12.03 | CONDUIT 3" DIAMETER (PVC) | L.F. | 96 |
| | 730-12.08 | CONDUIT 2" DIAMETER (RGS) | L.F. | 321 |
| | 730-12.09 | CONDUIT 3" DIAMETER (RGS) | L.F. | 980 |
| (7) | 730-13.08 | VEHICLE DETECTOR (RADAR DETECTION - STOP LINE) | EACH | 10 |
| (7) | 730-13.09 | VEHICLE DETECTOR (RADAR DETECTION - ADVANCE) | EACH | 9 |
| | 730-15.32 | CABINET (EIGHT PHASE BASE MOUNTED) | EACH | 3 |
| (8) | 730-16.02 | EIGHT PHASE ACTUATED CONTROLLER | EACH | 3 |
| (9) | 730-18.01 | MASTER CONTROLLER | EACH | 1 |
| (13) | 730-23.30 | PEDESTAL POLE (PEDESTRIAN SIGNAL SUPPORT) | EACH | 16 |
| (12) (13) (14) | 730-23.36 | CANTILEVER SIGNAL SUPPORT (1 ARM @ 52') | EACH | 1 |
| (11) (13) (14) | 730-23.37 | CANTILEVER SIGNAL SUPPORT (1 ARM @ 55') | EACH | 1 |
| (12) (13) (14) | 730-23.38 | CANTILEVER SIGNAL SUPPORT (1 ARM @ 60') | EACH | 1 |
| (10) (13) (14) | 730-23.88 | CANTILEVER SIGNAL SUPPORT (1 ARM @ 45') | EACH | 1 |
| (11) (13) (14) | 730-23.94 | CANTILEVER SIGNAL SUPPORT (2 @ 45' & 40') | EACH | 1 |
| (12) (13) (14) | 730-23.96 | CANTILEVER SIGNAL SUPPORT (1 ARM @ 70') | EACH | 1 |
| (10) (13) (14) | 730-23.97 | CANTILEVER SIGNAL SUPPORT (2 @ 60' & 65') | EACH | 1 |
| (12) (13) (14) | 730-23.98 | CANTILEVER SIGNAL SUPPORT (2 @ 75' & 75') | EACH | 1 |
| (13) | 730-26.05 | COUNTDOWN PEDESTRIAN SIGNAL | EACH | 16 |
| (13) (15) | 730-26.09 | PEDESTRIAN PUSHBUTTON WITH 15IN SIGN | EACH | 16 |
| (16) | 730-40 | TEMPORARY TRAFFIC SIGNAL SYSTEM | EACH | 2 |

## FOOTNOTES

(1) FOR R10-5 SIGNS

(2) TO INCLUDE TEN (10) STREET NAME SIGNS AND ALL NECESSARY HARDWARE. SIGNS TO BE INSTALLED ON THE MAST ARMS BY THE CONTRACTOR. SEE SHEETS 58, 58B, AND 58D FOR LOCATIONS OF SIGNS. SEE SIGN SCHEDULE ON SHEET 57B FOR DETAILS OF SIGNS.

(3) INCLUDES THE REMOVAL OF ALL SIGNAL POLES, SIGNAL HEADS, SIGNAL CABLES, CONTROLLER, AND ANY OTHER SIGNAL RELATED EQUIPMENT AT THE INTERSECTIONS OF SR-317 AT LITTLE DEBBIE PKWY AND SR-317 AT SR-321. ALSO TO INCLUDE THE ADJUSTMENT OF SIGNAL HEADS AS NEEDED FOR THE TRAFFIC CONTROL PLANS.

(4) SIGNAL HEADS SHALL BE UV RESISTANT POLYCARBONATE WITH AN ALL BLACK FINISH AND TUNNEL VISORS. SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUM YELLOW RETRO-REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO-REFLECTIVE BORDER IS TO BE MADE OF A TYPE III PRISMATIC OR BETTER MATERIAL.

## FOOTNOTES CONTINUED

(5) THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 730-05.01 FOR PAYMENT BY THE CONTRACTOR.

(6) TO GO THROUGH PARAPET RAIL OF BOX CULVERT AT STA. 238+71.04. SEE SHEET 58B FOR LOCATION.

(7) TO BE WAVETRONIX SMARTSENSOR MATRIX (STOP BAR DETECTION) AND SMARTSENSOR ADVANCE (ADVANCED DETECTION) DETECTION SYSTEM OR EQUIVALENT. INCLUDES ALL SENSOR UNITS, HARDWARE, SOFTWARE, MOUNTING ASSEMBLIES, CABLE, AND RELATED EQUIPMENT TO PROVIDE ALL DETECTION ZONES AS SHOWN ON THE PLANS. CONTRACTOR TO ENSURE COMPATABILITY WITH CONTROLLER.

(8) THE CONTROLLERS SHALL BE EAGLE/SEIMENS M50, OR EQUIVALENT. THE CONFLICT MONITORS SHALL BE SMART MONITOR MMU-16LE, OR EQUIVALENT.

(9) TO BE LOCATED AT THE INTERSECTION OF SR-317 AT SR-321 (LOCATION #3). MASTER CONTROLLER SHALL BE COMPATIBLE WITH ALL OTHER CONTROLLERS.

(10) TO BE USED AT LOCATION #1 (SR-317 AT LITTLE DEBBIE PARKWAY). ALL POLES TO BE 40 FT. TO ACCOMMODATE FUTURE STREET LIGHTING. DESIGN ASSUMPTIONS INCLUDE A 15 FT. LUMINAIRE ARM AND A MONGOOSE TYPE LIGHT HEAD.

(11) TO BE USED AT LOCATION # 2 (SR-317 AT SWINYAR DRIVE). ALL POLES TO BE 30 FT. TO ACCOMMODATE FUTURE STREET LIGHTING. DESIGN ASSUMPTIONS INCLUDE A 15 FT. LUMINAIRE ARM AND A MONGOOSE TYPE LIGHT HEAD.

(12) TO BE USED AT LOCATION # 3 (SR-317 AT SR-321). ALL POLES TO BE 40 FT. TO ACCOMMODATE FUTURE STREET LIGHTING. DESIGN ASSUMPTIONS INCLUDE A 15 FT. LUMINAIRE ARM AND A MONGOOSE TYPE LIGHT HEAD.

(13) CANTILEVER POLES, MAST ARMS, PEDESTAL POLES, COUNTDOWN PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTON HOUSING TO BE PAINTED BLACK.

(14) USE A 15'-0" DRILLED SHAFT FOUNDATION 3'-0" IN DIAMETER. THE 15'-0" DEPTH IS BASED ON HAVING SOIL THE ENTIRE LENGTH OF THE DRILLED SHAFT. IF SOUND BEDROCK IS ENCOUNTERED PRIOR TO ATTAINING THE REQUIRED 15'-0" DEPTH, CONTACT TDOT'S DIVISION OF STRUCTURES BEFORE PROCEEDING.

(15) SIGNS TO BE R10-3E

(16) TO BE USED AT THE INTERSECTION OF SR-317 AT LITTLE DEBBIE PKWY AND SR-317 AT SR-321. SYSTEM SHOULD INCLUDE WOOD POLES, GUYING DEVICES, SPAN WIRE, CONDUIT RISERS, AND ANY OTHER SIGNAL RELATED EQUIPMENT NEEDED TO HAVE A FULLY OPERATIONAL TRAFFIC SIGNAL SYSTEM.

## *SPECIAL NOTES REGARDING SIGNAL HEADS*

(1) ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS PROPOSED FOR THIS PROJECT SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.

(2) CIRCULAR INDICATIONS SHALL MEET “ITE VTCSH-LED CIRCULAR SIGNAL SUPPLEMENT” FOR EXPANDED/EXTENDED VIEW.

(3) ARROW INDICATIONS SHALL MEET “ITE VTCSH-3 LED ARROW SPECIFICATON” FOR EXPANDED/EXTENDED VIEW. PEDESTRIAN INDICATIONS SHALL MEET “ITE PTCSI PART 2”.

(4) ALL PEDESTRIAN TRAFFIC CONTROL INDICATIONS, WHERE CALLED FOR, SHALL CONSIST OF LED MODULES DISPLAYING “WALKING PERSON” AND “HAND” SYMBOLS, ALONG WITH A PEDESTRIAN INTERVAL COUNTDOWN DISPLAY, WITHIN THE SAME FACE UNLESS OTHERWISE NOTED IN THE PLANS

(5) INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.

(6) COMPATABILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED.

(7) MANUFACTURER SHALL PROVIDE A MINIMUM FIVE-YEAR WARRANTY FOR OPERATION OF THE UNIT.

(8) ALL SIGNAL HEADS WITH LED LENSES SHALL INCLUDE SWIVEL BALANCE ADJUSTERS TO MAINTAIN THE PROPER VISIBILITY. COSTS OF ADJUSTERS TO BE INCLUDED IN COSTS OF SIGNAL HEADS.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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DEPARTMENT OF TRANSPORTATION

ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2D |
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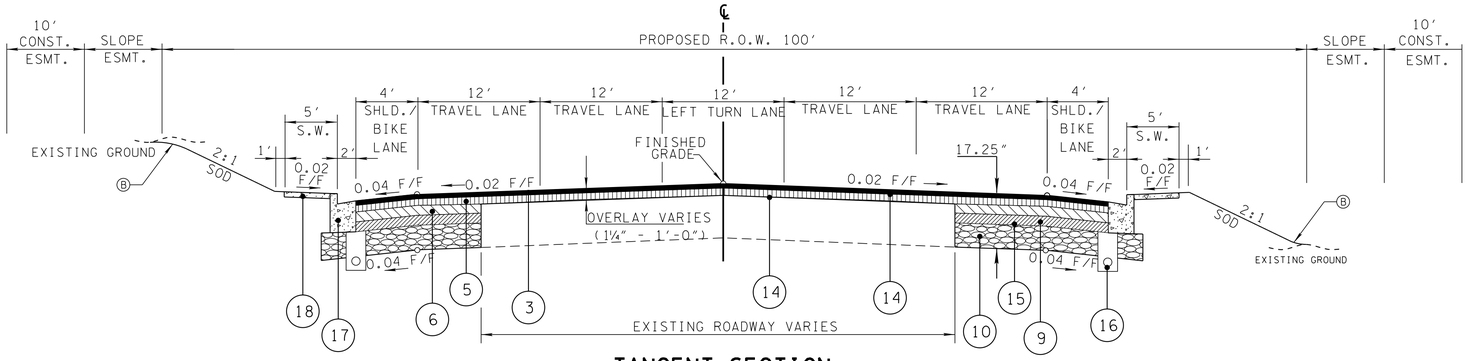



## TANGENT SECTION

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

S.R. 317 (APISON PK.) AT OLD LEE HIGH HWY TO S.R. 321 (OOLTEWAH RINGGOLD RD.)

STA. 141+30.00 ----- STA. 144+00.00

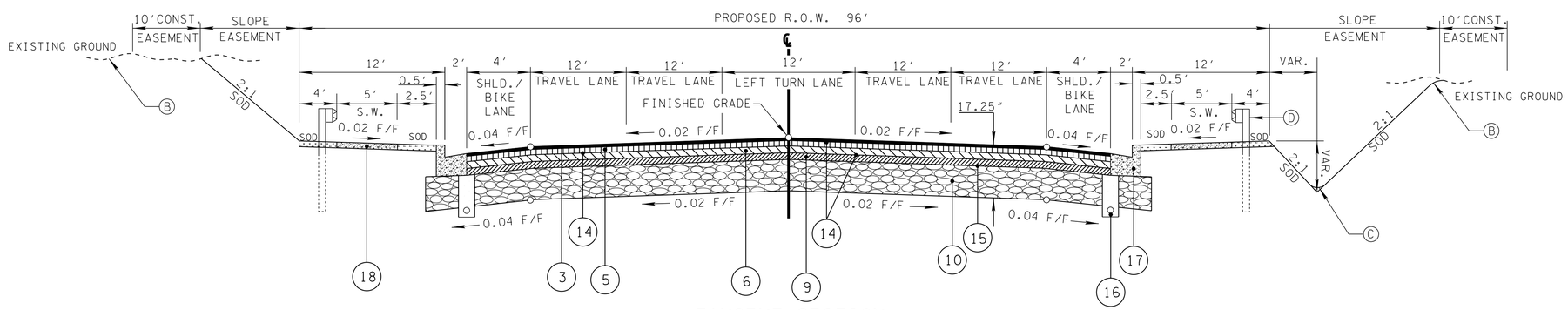
GENERAL NOTES

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.00%.

(B) SEE STANDARD DRAWING RD01-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

(C) SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

(D) SEE STANDARD ROADWAY DRAWINGS FOR GUARDRAIL PLACEMENT AND FLARE DETAILS.




## TANGENT SECTION

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

S.R. 317 (APISON PK.) AT OLD LEE HIGH HWY TO S.R. 321 (OOLTEWAH RINGGOLD RD.)

STA. 144+00.00 ----- STA. 146+51.48
STA. 161+64.55 ----- STA. 168+13.63
STA. 178+77.11 ----- STA. 181+65.84
STA. 215+40.53 ----- STA. 217+48.65
STA. 229+43.29 ----- STA. 237+25.79
STA. 241+16.10 ----- STA. 251+74.11
STA. 255+04.11 ----- STA. 257+37.75

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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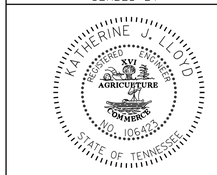


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 2 |
| CONST. | 2014 | STP/NH-317(14) | 2E |
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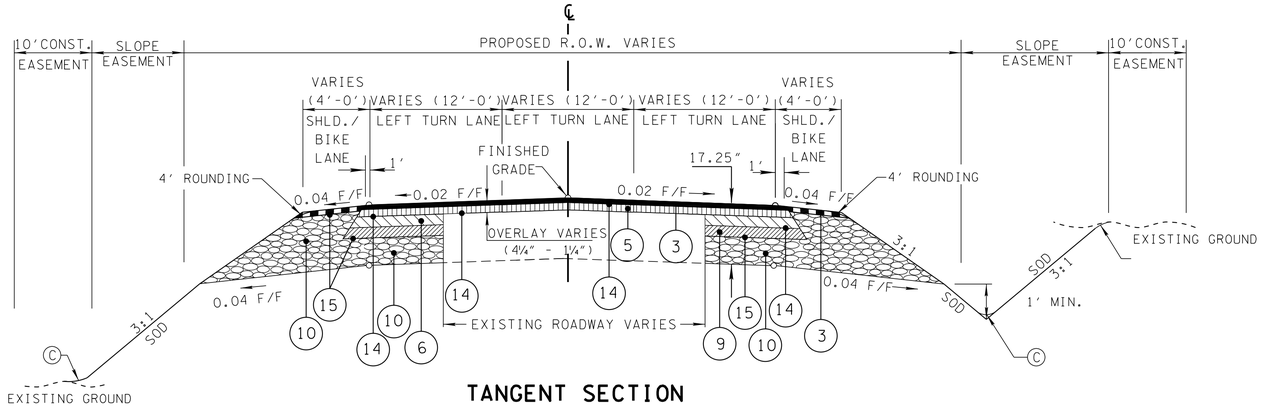
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




## TANGENT SECTION

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

S.R. 317 (APISON PK.) AT OLD LEE HIGH HWY TO S.R. 321 (OOLTEWAH RINGGOLD RD.)

STA. 257+37.75 ----- STA. 259+97.74

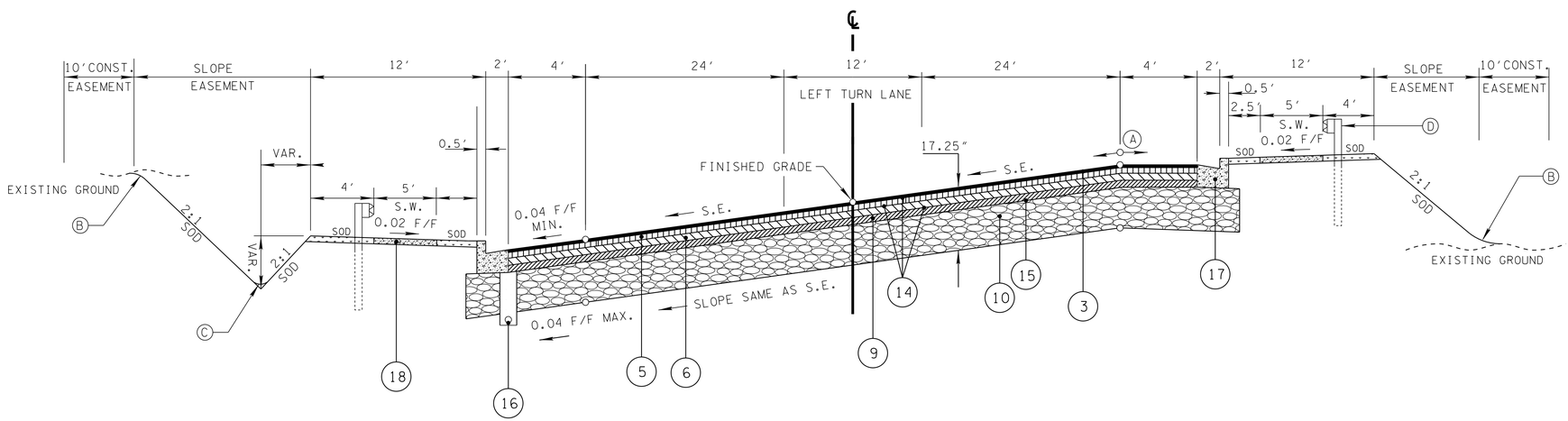
GENERAL NOTES

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.00%.

(B) SEE STANDARD DRAWING RD01-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

(C) SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

(D) SEE STANDARD ROADWAY DRAWINGS FOR GUARDRAIL PLACEMENT AND FLARE DETAILS.




## SUPERELEVATED SECTION

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

S.R. 317 (APISON PK.) AT OLD LEE HIGH HWY TO S.R. 321 (OOLTEWAH RINGOLD RD.)

STA. 146+51.48 ----- STA. 161+64.55
STA. 168+13.63 ----- STA. 178+77.11
STA. 181+65.84 ----- STA. 215+40.53
STA. 217+48.65 ----- STA. 229+43.29
STA. 237+25.79 ----- STA. 241+16.10
STA. 251+74.11 ----- STA. 255+04.11

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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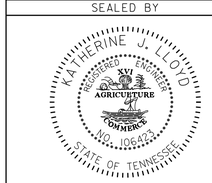


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 2A |
| CONST. | 2014 | STP/NH-317(14) | 2F |
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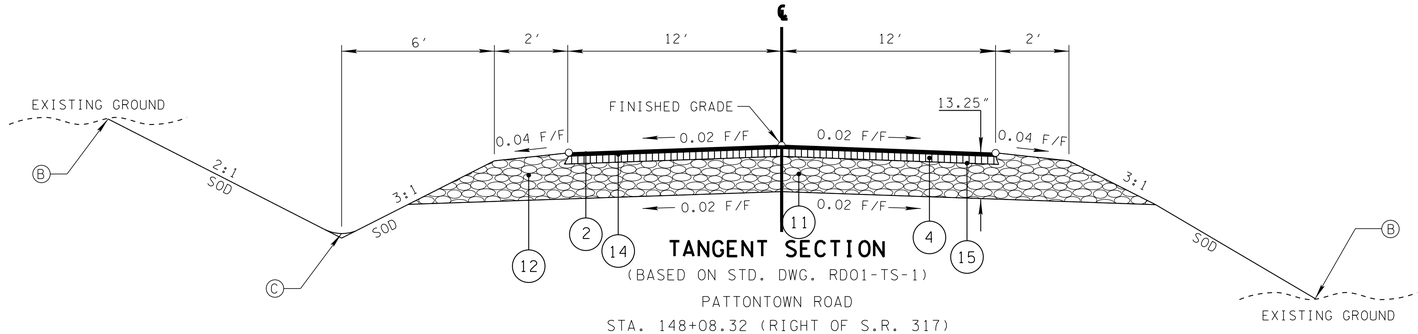
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



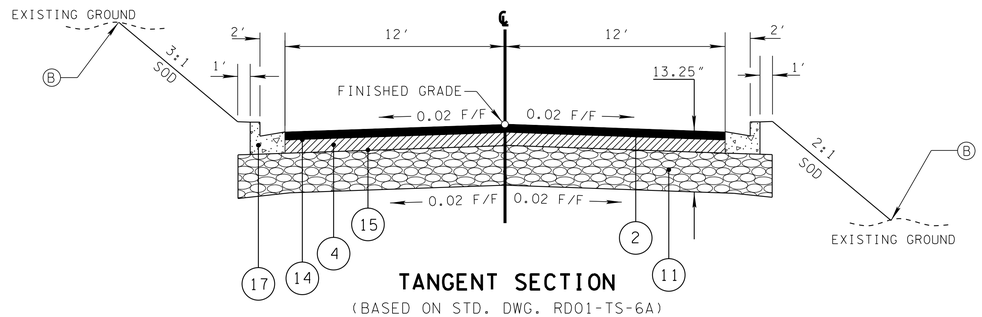

## TANGENT SECTION

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

PATTONTOWN ROAD

STA. 148+08.32 (RIGHT OF S.R. 317)

STA. 5+00.00 ---- STA. 7+43.61



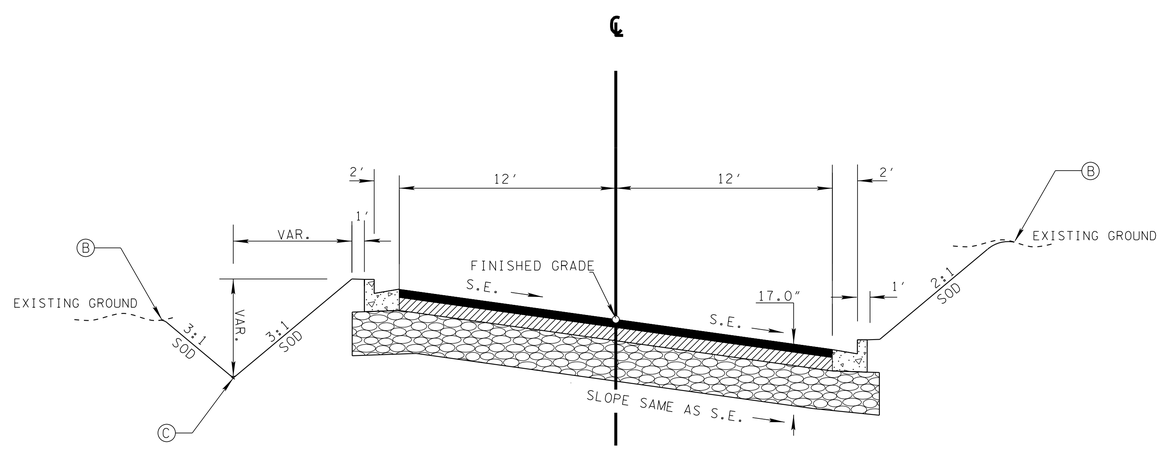

## TANGENT SECTION

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

UNNAMED STREET

STA. 178+27.44 (RIGHT OF S.R. 317)

STA. 10+00.00 ---- STA. 11+82.45




## SUPERELEVATED SECTION

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

UNNAMED STREET

STA. 178+27.44 (RIGHT OF S.R. 317)

STA. 11+82.45 ---- STA. 13+23.00

GENERAL NOTES

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.00%.

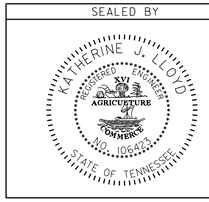
(B) SEE STANDARD DRAWING RD01-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, AND SPECIAL ROCK CUT TREATMENT.

(C) SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 2B |
| CONST. | 2014 | STP/NH-317(14) | 2G |
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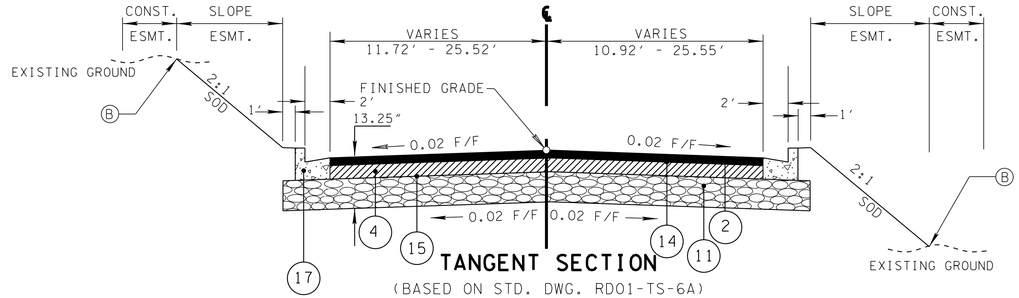
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



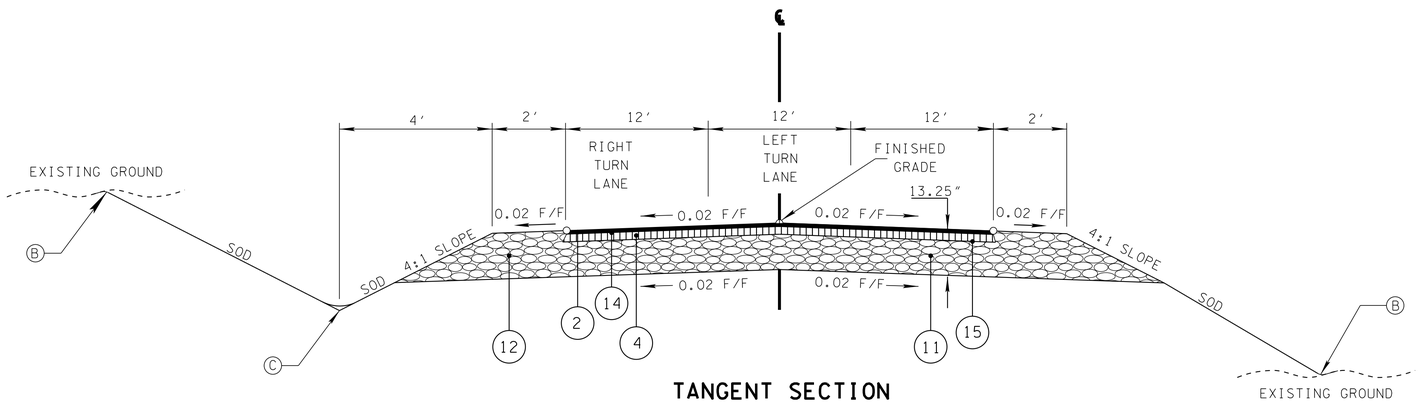

## TANGENT SECTION

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

BRANSTON ROAD

STA. 187+05.07 (LEFT OF S.R. 317)

STA. 16+77.68 ---- STA. 18+86.48




## TANGENT SECTION

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

LaCOLLINA WAY

STA. 201+11.87 (RIGHT OF S.R. 317)

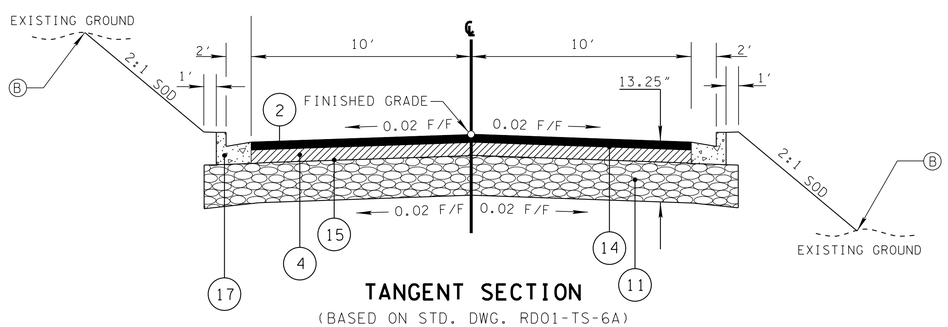
STA. 20+00.00 ---- STA. 21+29.97

GENERAL NOTES

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.00%.

(B) SEE STANDARD DRAWING RD01-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, AND SPECIAL ROCK CUT TREATMENT.

(C) SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.



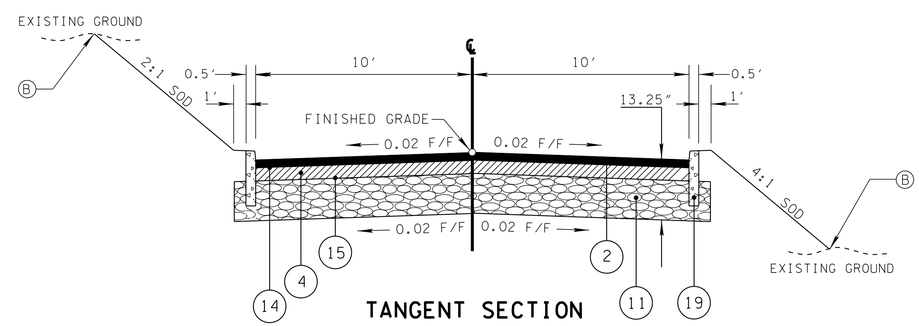

## TANGENT SECTION

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

PINE CIRCLE

STA. 221+17.21 (RIGHT OF S.R. 317)

STA. 40+00.00 ---- 40+47.14




## TANGENT SECTION

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

PINE CIRCLE

STA. 221+17.21 (RIGHT OF S.R. 317)

STA. 43+59.60 ---- 45+00.00

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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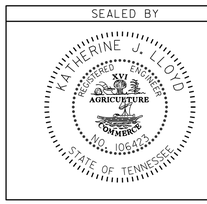


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 2C |
| CONST. | 2014 | STP/NH-317(14) | 2H |
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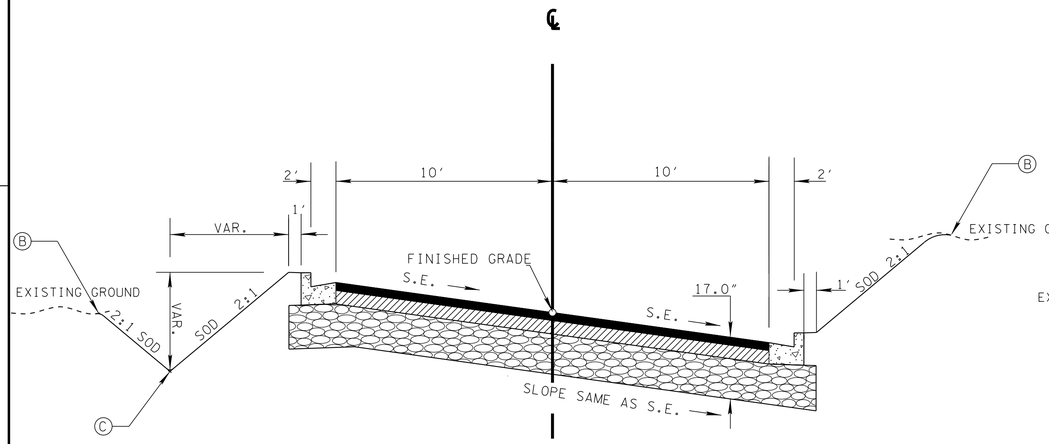
REV. 06-14-13: REMOVED CURB ISLAND FROM BRANSTON RD., CURB ISLAND CANNOT BE INSIDE TDOT RIGHT-OF-WAY. ADJUSTED BRANSTON ROADWAY WIDTH.



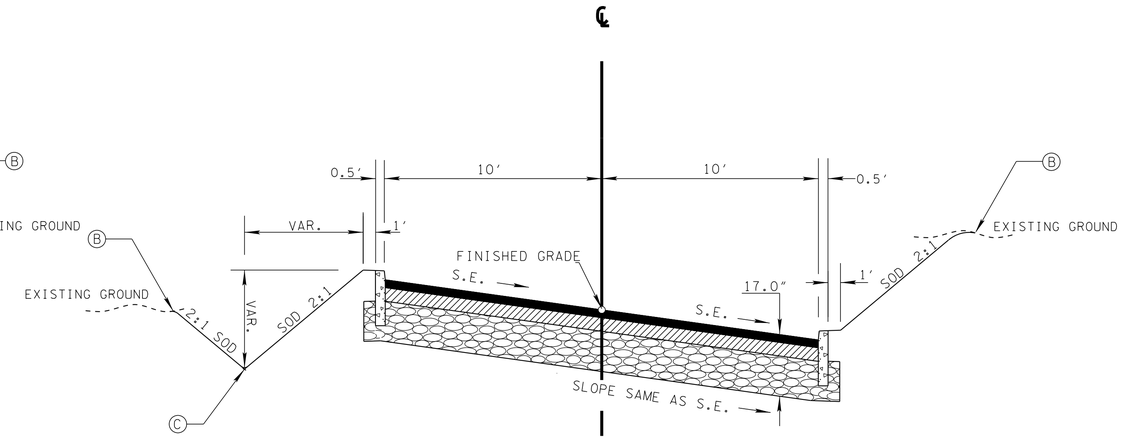

## SUPERELEVATED SECTION

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

PINE CIRCLE

STA. 221+17.21 (RIGHT OF S.R. 317)

STA. 40+47.14 ---- STA. 42+31.00




## SUPERELEVATED SECTION

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

PINE CIRCLE

STA. 221+17.21 (RIGHT OF S.R. 317)

STA. 42+31.00 ---- STA. 43+59.60

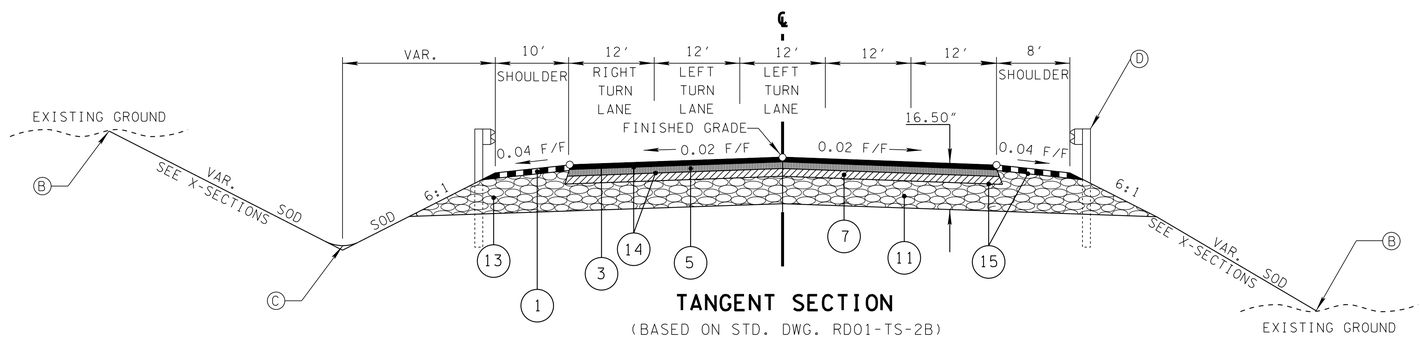
GENERAL NOTES

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.00%.

(B) SEE STANDARD DRAWING RD01-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

(C) SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

(D) SEE STANDARD ROADWAY DRAWINGS FOR GUARDRAIL PLACEMENT AND FLARE DETAILS.



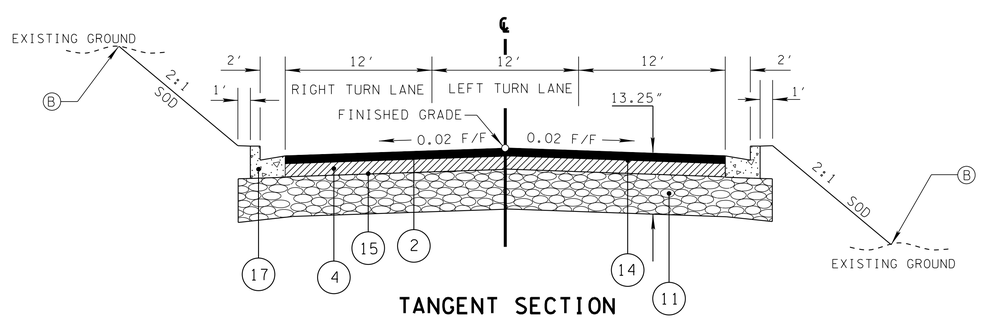

## TANGENT SECTION

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

LITTLE DEBBIE PARKWAY

STA. 224+35.77 (LEFT OF S.R. 317)

STA. 24+47.39 ---- STA. 30+71.32




## TANGENT SECTION

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

SWINYAR DRIVE

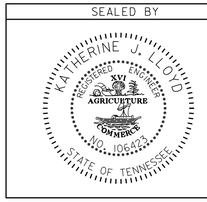
STA. 235+37.41 (RIGHT OF S.R. 317)

STA. 50+00.00 ---- STA. 51+16.18

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 2D |
| CONST. | 2014 | STP/NH-317(14) | 2I |
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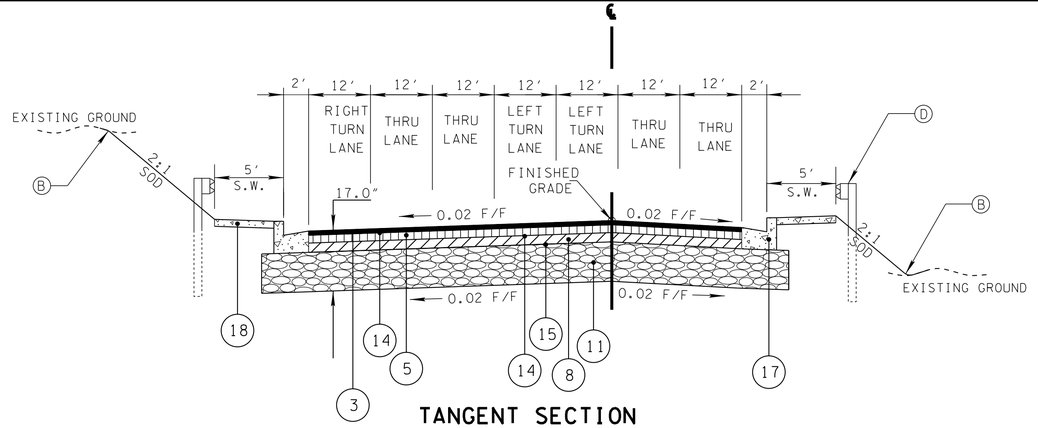
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




## TANGENT SECTION

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

S.R. 321 NORTH (OOLTEWAH-RINGGOLD ROAD)

STA. 250+22.82 (LEFT OF S.R. 317)

STA. 278+57.67 ---- STA. 285+47.25

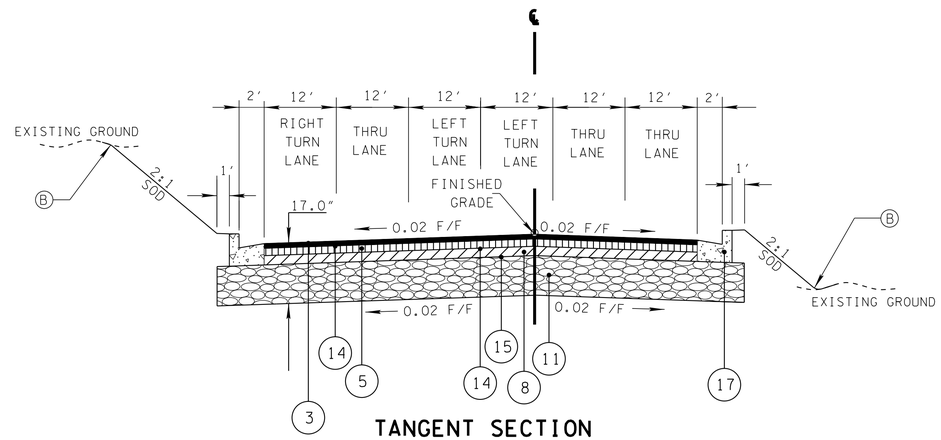
GENERAL NOTES

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.00%.

(B) SEE STANDARD DRAWING RD01-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES.

(C) SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

(D) SEE STANDARD ROADWAY DRAWINGS FOR GUARDRAIL PLACEMENT AND FLARE DETAILS.




## TANGENT SECTION

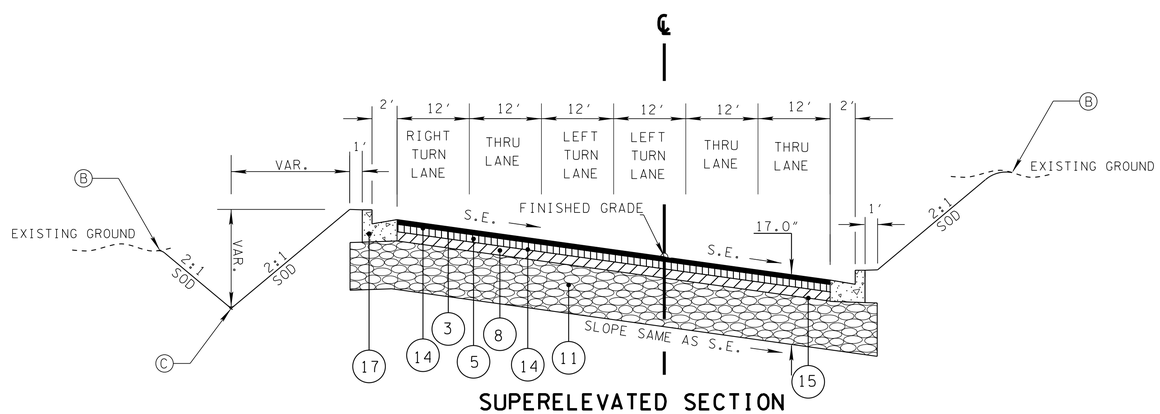
(BASED ON STD. DWG. RD01-TS-6A)

S.R. 321 SOUTH (OOLTEWAH-RINGGOLD ROAD)

STA. 250+22.82 (LEFT OF S.R. 317)

STA. 50+00.00 ---- STA. 50+54.90

STA. 55+00.49 ---- STA. 56+89.93




## SUPERELEVATED SECTION

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

S.R. 321 SOUTH (OOLTEWAH-RINGGOLD ROAD)

STA. 250+22.82 (RIGHT OF S.R. 317)

STA. 50+54.90 ---- 55+54.90

**UNOFFICIAL SET**

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DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 2I |
| CONST. | 2014 | STP/NH-317(14) | 2J |
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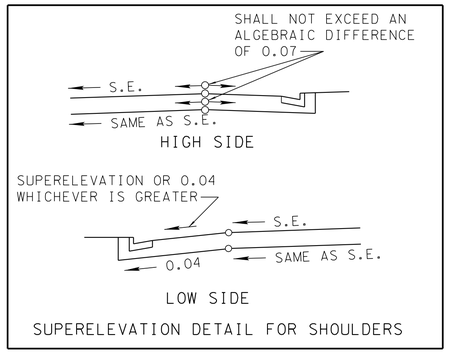
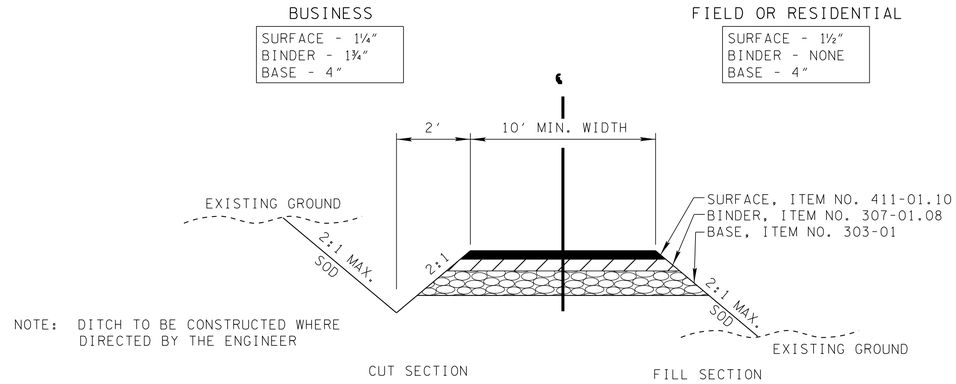



SUPERELEVATION DETAIL FOR SHOULDERS

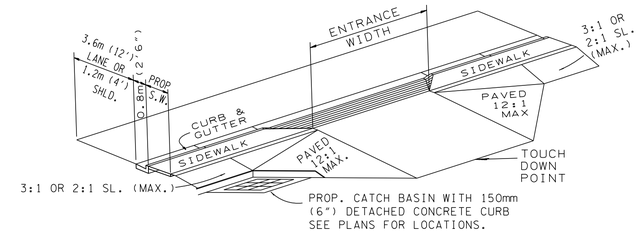



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

* WHERE SURFACE OF EXITING DRIVE IS CONCRETE, SUBSTITUTE 6 INCHES OF CONCRETE FOR BASE AND SURFACE.

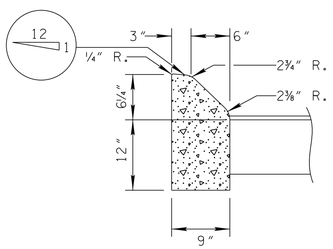
## TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY




BUSINESS ENTRANCE TO PARKING AREAS

SHOWING FLATTENING OF SIDE SLOPES

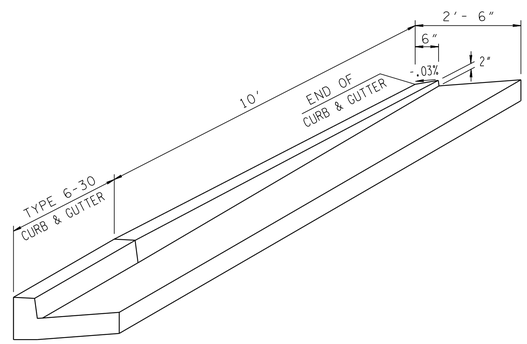



6" MOUNTABLE DETACHED CONCRETE CURB TYPE "A"

NOTE: FOR DETAILS NOT SHOWN, SEE STD. DWG. NO. RP-MC-2

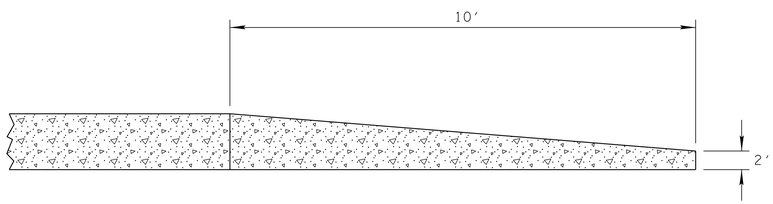
PINE CIRCLE

STA. 42+31.70 TO STA. 45+00.00 LT. & RT.




TYPE 6-30 CURB & GUTTER TRANSITION DETAIL

THIS DETAIL SHALL APPLY TO ALL ENDING SECTIONS OF TYPE 6-30 CURB & GUTTER




CURB TRANSITION DETAIL

THIS DETAIL SHALL APPLY TO ALL ENDING SECTIONS OF TYPE 6-30 NONMOUNTABLE CONCRETE CURB

## PROPOSED PAVEMENT SCHEDULE

| | |
|---|---|
| **(1)** | **1 ½" BITUMINOUS SURFACE (SHOULDER) (APPROX. 154.5 LB/YD²)**<br>ITEM 411-01.07 ACS MIX (PG64-22) GRADING D |
| **(2)** | **1 ¼" BITUMINOUS SURFACE (ROADWAY) (APPROX. 132.5 LB/YD²)**<br>ITEM 411-01.10 ACS MIX (PG64-22) GRADING D |
| **(3)** | **1 ¼" BITUMINOUS SURFACE (ROADWAY) (APPROX. 132.5 LB/YD²)**<br>ITEM 411-02.10 ACS MIX (PG70-22) GRADING D |
| **(4)** | **2" BITUMINOUS BINDER (ROADWAY) (APPROX. 226 LB/YD²)**<br>ITEM 307-01.08 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING B-M2 |
| **(5)** | **2" BITUMINOUS BINDER (ROADWAY) (APPROX. 226 LB/YD²)**<br>ITEM 307-02.08 ASPHALT CONCRETE MIX (PG70-220(BPMB-HM) GRADING B-M2 |
| **(6)** | **3" BITUMINOUS BASE (ROADWAY) (APPROX. 345 LB/YD²)**<br>ITEM 307-02.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A |
| **(7)** | **3 ¼" BITUMINOUS BASE (ROADWAY) (APPROX. 374 LB/YD²)**<br>ITEM 307-02.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A |
| **(8)** | **3 ¾" BITUMINOUS BASE (ROADWAY) (APPROX. 431.25 LB/YD²)**<br>ITEM 307-02.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A |
| **(9)** | **3" BITUMINOUS BASE (ROADWAY) (APPROX. 270 LB/YD²)**<br>ITEM 307-02.02 ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING AS<br>ITEM 307-02.03 AGGREGATE (BPMB-HM) GRADING A-S MIX |
| **(10)** | **8" MINERAL AGGREGATE BASE (ROADWAY)**<br>ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D |
| **(11)** | **10" MINERAL AGGREGATE BASE (ROADWAY)**<br>ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D |
| **(12)** | **13 ¼" MINERAL AGGREGATE BASE (SHOULDER)**<br>ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D |
| **(13)** | **15" MINERAL AGGREGATE BASE (SHOULDER)**<br>ITEM 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D |
| **(14)** | **TACK COAT**<br>ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)(RATE 0.07 GAL/YD²) |
| **(15)** | **PRIME COAT**<br>ITEM 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.3-0.35 GAL/YD²)<br>ITEM 402-02 AGGREGATE FOR COVER MATERIAL (PC)(RATE 8-12 LB/YD²) |
| **(16)** | **AGGREGATE UNDERDRAINS**<br>ITEM 710-02 AGGREGATE UNDERDRAIN (WITH PIPE) |
| **(17)** | **TYPE 6-30 CONCRETE COMBINED CURB & GUTTER (9" THICK)**<br>ITEM 702-03 CONCRETE COMBINED CURB & GUTTER |
| **(18)** | **4" CONCRETE SIDEWALK**<br>ITEM 701-01.01 CONCRETE SIDEWALK (4") |
| **(19)** | **6" DETACHED CONCRETE CURB**<br>ITEM 702-01 NON-MOUNTABLE TYPE A CONCRETE CURB |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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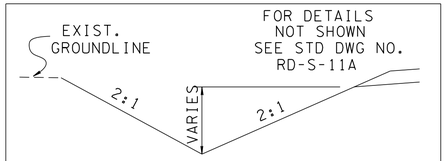
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 2F |
| CONST. | 2014 | STP/NH-317(14) | 2K |
| | | | |
| | | | |

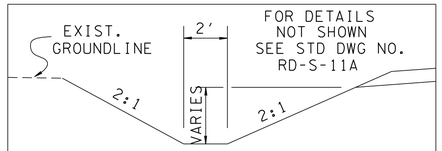
## S.R. 317 (APISON PIKE) SPECIAL DITCH LEFT




PROP. SPECIAL "V" SOD DITCH
S.R. 317

LEFT STA. 141+50.00 TO STA. 147+00.00
LEFT STA. 201+00.00 TO STA. 204+50.00
LEFT STA. 216+50.00 TO STA. 220+00.00
LEFT STA. 243+00.00 TO STA. 245+00.00

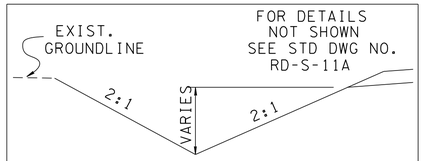
## S.R. 317 (APISON PIKE) SPECIAL DITCH LEFT




PROP. 2' FLAT BOTTOM TRM DITCH
S.R. 317

LEFT STA. 151+00.00 TO STA. 162+90.22
LEFT STA. 164+09.78 TO STA. 172+00.00
LEFT STA. 173+00.00 TO STA. 177+65.35
LEFT STA. 178+90.13 TO STA. 182+00.00

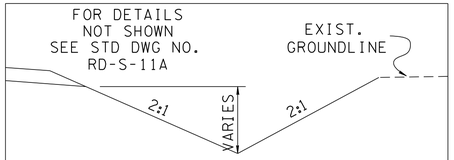
## PROPOSED SIDE ROAD SPECIAL DITCH LEFT




PROP. SPECIAL "V" TRM DITCH
S.R. 321 SOUTH (OOLTEWAH-RINGGOLD ROAD)

LEFT STA. 53+00.00 TO STA. 55+00.00

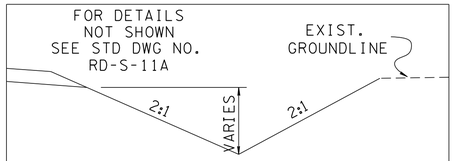
## PROP. S.R. 317 (APISON PIKE) SPECIAL DITCH RIGHT




PROP. SPECIAL "V" TRM DITCH
S.R. 317

RIGHT STA. 160+00.00 TO STA. 162+88.45
RIGHT STA. 164+11.55 TO STA. 167+00.00
RIGHT STA. 176+00.00 TO STA. 177+87.79
RIGHT STA. 178+67.52 TO STA. 199+25.00

## PROP. S.R. 317 (APISON PIKE) SPECIAL DITCH RIGHT

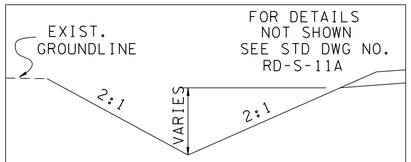



PROP. SPECIAL "V" SOD DITCH
S.R. 317

RIGHT STA. 141+50.00 TO STA. 144+50.00

TRM >>> TURF REINFORCEMENT MAT

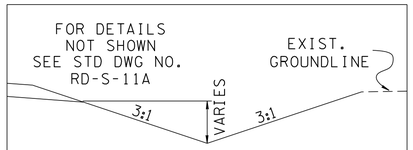
## PROP. S.R. 317 (APISON PIKE) ROADSIDE DITCH LEFT




PROP. "V" BOTTOM SODDED DITCH
S.R. 317

LEFT STA. 147+00.00 TO STA. 150+50.00
LEFT STA. 192+00.00 TO STA. 192+50.00
LEFT STA. 194+00.00 TO STA. 196+50.00
LEFT STA. 200+50.00 TO STA. 201+00.00
LEFT STA. 215+50.00 TO STA. 216+00.00
LEFT STA. 243+00.00 TO STA. 245+00.00

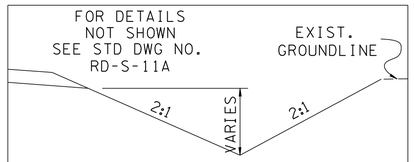
## PROP. S.R. 317 (APISON PIKE) ROADSIDE DITCH RIGHT




PROP. "V" TRM DITCH
S.R. 317

RIGHT STA. 257+37.75 TO STA. 259+97.74

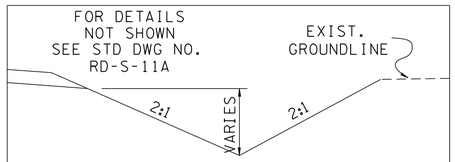
## PROP. S.R. 317 (APISON PIKE) ROADSIDE DITCH RIGHT




PROP. "V" BOTTOM SODDED DITCH
S.R. 317

RIGHT STA. 149+00.00 TO STA. 152+00.00
RIGHT STA. 200+16.00 TO STA. 200+50.00
RIGHT STA. 201+50.00 TO STA. 202+50.00
RIGHT STA. 207+50.00 TO STA. 210+89.00
RIGHT STA. 219+00.00 TO STA. 220+50.00
RIGHT STA. 221+50.00 TO STA. 225+00.00
RIGHT STA. 236+50.00 TO STA. 238+00.00

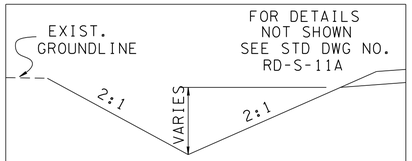
## PROP. S.R. 317 (APISON PIKE) ROADSIDE DITCH RIGHT




PROP. "V" TRM DITCH
S.R. 317

RIGHT STA. 158+50.00 TO STA. 160+00.00
RIGHT STA. 167+00.00 TO STA. 176+00.00
RIGHT STA. 225+00.00 TO STA. 230+00.00
RIGHT STA. 252+00.00 TO STA. 257+37.75

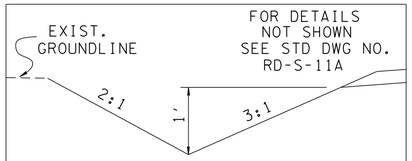
## PROP. SIDE ROAD ROADSIDE DITCH LEFT




PROP. "V" TRM DITCH
S.R. 321 SOUTH (OOLTEWAH-RINGGOLD ROAD)

LEFT STA. 51+50.00 TO STA. 53+00.00
LEFT STA. 55+00.00 TO STA. 56+89.93

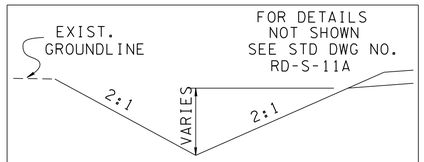
## PROP. SIDE ROAD ROADSIDE DITCH LEFT




PROP. "V" BOTTOM SODDED DITCH
PATTONTOWN ROAD

LEFT STA. 5+44.92 TO STA. 7+43.77

## S.R. 317 (APISON PIKE) ROADSIDE DITCH LEFT




PROP. "V" TRM DITCH
S.R. 317

LEFT STA. 204+50.00 TO STA. 212+00.00

TRM >>> TURF REINFORCEMENT MAT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL DITCH TYPICALS AND DITCH LINNING DETAILS

8-JUN-2014 07:58
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2L |
| | | | |
| | | | |
| | | | |

# 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. 801-02, 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 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) 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 CULVERT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE ( PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

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

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

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

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

## UTILITIES (SEE SHEET 3H)

## MISCELLANEOUS

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

(2) 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

## RIGHT-OF-WAY (SEE SHEET 3H)

## 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

## PAVEMENT MARKINGS

## TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(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) WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), LIN. FT.

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

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

## FINAL PAVEMENT MARKING IF 6" SPRAY THERMOPLASTIC (60 mil) IS USED

(4) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" SPRAY THERMOPLASTIC (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-13.02, SPRAY THERMO PVMT MRKNG (60 mil) (6IN 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

(5) THE PAVEMENT MARKING ON THE LANE SHIFTS FOR CENTERLINE & 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 LIN. MI.

(6) BEFORE OPENING THE LANE SHIFTS TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. 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 BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(2) 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

(5) 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.

## SIGNALIZATION

(1) EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730C-TRAFFIC SIGNALS."

(2) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CONTRACTOR.

(3) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.

(4) SIGNAL HEADS SHALL FLASH A MINIMUM OF SEVEN (7) DAYS PRIOR TO ACTIVATION OF THE SIGNAL.

## 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.

UNOFFICIAL SET

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GENERAL NOTES

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# GENERAL NOTES (CONTINUED)

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL (CONT.)

(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.

## 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 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

(9) 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.

(10) 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.

(11) 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.

(12) 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.

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

(14) 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.

(15) 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.

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

### SPECIES

(17) 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

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

(19) 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.

(20) 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.

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GENERAL NOTES

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# GENERAL NOTES

## INSPECTION, MAINTENANCE, REPAIR (CONTINUED)

(21) 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.

(22) 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.

(23) 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.

(24) 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.

(25) 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

(26) 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

(27) 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.

(28) 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, 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.

(29) 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.

(30) 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.

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

(32) 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.

(33) 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.

(34) 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.

(35) 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

(36) 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.

(37) 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.

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GENERAL NOTES

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# SPECIAL NOTES

## GRADING

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

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

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

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

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

## SIGNALIZATION

(1) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

## EROSION PREVENTION AND SEDIMENT CONTROL

### NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 43, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

## ENVIRONMENTAL

### ECOLOGY

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

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

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

## 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.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

18-JUN-2014 08:01
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR32\002P.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 20 |

# CATCH BASINS, MANHOLES AND JUNCTION BOXES

| SHEET NO. | LOCATION | STATION | OFFSET (FT.) | DRAINAGE CODE | GRATE/TOP ELEV. | STRUCTURE TYPE | INSIDE DIMENSION | DEPTH (FT.) | STANDARD DRAWINGS | TYPE 3 M.H. 611-01.02 4' - 8' | TYPE B #1 J.B. 611-02.10 | TYPE B #2 J.B. 611-02.11 | TYPE B #3 J.B. 611-02.12 | TYPE B #4 J.B. 611-02.13 | TYPE 12 C.B. 611-12.01 0' - 4' | TYPE 12 C.B. 611-12.02 4' - 8' | TYPE 12 C.B. 611-12.03 8' - 12' | TYPE 12 C.B. 611-12.04 12'-16' | TYPE 14 C.B. 611-14.02 4' - 8' | TYPE 42 C.B. 611-42.01 0' - 4' | TYPE 42 C.B. 611-42.02 4' - 8' | TYPE 2A S.D. 611-02.02 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4B | S.R. 317 | 146+00.00 | 36 | CB-1 | 907.87 | #12 | 4X3 | 4.25 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 4B | S.R. 317 | 144+21.00 | 36 | CB-2 | 905.82 | #14 | 8X3 | 5.89 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 4B | S.R. 317 | 147+35.23 | -36 | CB-3 | 912.10 | #12 | 4X3 | 4.25 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 4B | S.R. 317 | 144+21.00 | -36 | CB-4 | 905.82 | #14 | 8X3 | 5.16 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 5B | S.R. 317 | 154+00.00 | -36 | CB-5 | 913.94 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 5B | S.R. 317 | 157+00.00 | -36 | CB-6 | 899.13 | #12 | 4X3 | 4.68 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 5B | S.R. 317 | 160+00.00 | -36 | CB-7 | 884.35 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 5B | S.R. 317 | 162+78.00 | -36 | CB-8 | 874.18 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 6B | S.R. 317 | 166+00.00 | -36 | CB-9 | 866.70 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 6B | S.R. 317 | 168+85.00 | -36 | CB-10 | 860.71 | #12 | 4X3 | 4.25 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 6B | S.R. 317 | 170+70.00 | -36 | CB-11 | 857.26 | #12 | 4X3 | 4.50 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 6B | S.R. 317 | 171+94.00 | -61 | CB-12 | 849.17 | #42 | 5'2"X5'32" | 5.67 | D-CB-42SC | | | | | | | | | | | | 1 | | |
| 6B | S.R. 317 | 166+00.00 | 36 | CB-13 | 866.70 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 6B | S.R. 317 | 169+51.00 | 36 | CB-14 | 858.55 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 6B | S.R. 317 | 171+00.00 | 36 | CB-15 | 852.97 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 6B | S.R. 317 | 173+49.97 | 36 | CB-16 | 849.02 | #12 | 5' DIA | 8.46 | D-CB-12RB | | | | | | | | 1 | | | | | | |
| 6B | S.R. 317 | 175+80.21 | 36 | CB-17 | 843.67 | #12 | 5' DIA | 7.74 | D-CB-12RB | | | | | | | 1 | | | | | | | |
| 7B | S.R. 317 | 177+70.33 | 36 | CB-18 | 839.53 | #12 | 5' DIA | 8.36 | D-CB-12RB | | | | | | | | 1 | | | | | | |
| 7B | S.R. 317 | 179+99.70 | 36 | CB-19 | 834.25 | #12 | 5' DIA | 7.04 | D-CB-12RB | | | | | | | 1 | | | | | | | |
| 7B | S.R. 317 | 182+65.00 | 36 | CB-20 | 829.84 | #12 | 5' DIA | 7.19 | D-CB-12RB | | | | | | | 1 | | | | | | | |
| 7B | S.R. 317 | 185+10.00 | 36 | CB-21 | 825.58 | #12 | 5' DIA | 6.54 | D-CB-12RB | | | | | | | 1 | | | | | | | |
| 7B | S.R. 317 | 186+62.00 | 64 | CB-22 | 816.81 | #42 | 5'2"X5'2" | 6.76 | D-CB-42SC | | | | | | | | | | | | 1 | | |
| 7B | S.R. 317 | 187+10.00 | 36 | CB-23 | 822.29 | #12 | 7X7 | 13.40 | D-CB-12SD | | | | | | | | | 1 | | | | | |
| 7B | S.R. 317 | 188+60.00 | 36 | CB-24 | 819.65 | #12 | 7X7 | 11.46 | D-CB-12SD | | | | | | | | 1 | | | | | | |
| 8B | S.R. 317 | 190+30.00 | 36 | CB-25 | 816.67 | #12 | 7X7 | 9.28 | D-CB-12SD | | | | | | | | 1 | | | | | | |
| 8B | S.R. 317 | 192+10.00 | 36 | CB-26 | 813.49 | #12 | 7X7 | 8.97 | D-CB-12SD | | | | | | | | 1 | | | | | | |
| 8B | S.R. 317 | 193+80.00 | 36 | CB-27 | 810.50 | #12 | 7X7 | 8.01 | D-CB-12SD | | | | | | | | 1 | | | | | | |
| 8B | S.R. 317 | 194+34.46 | 62.48 | CB-28 | 803.67 | #42 | 5'2"X5'2" | 6.76 | D-CB-42SC | | | | | | | | | | | | 1 | | |
| 8B | S.R. 317 | 195+50.00 | 36 | CB-29 | 807.51 | #12 | 7X7 | 12.43 | D-CB-12SD | | | | | | | | | 1 | | | | | |
| 8B | S.R. 317 | 197+19.61 | 36 | CB-30 | 804.48 | #12 | 7X7 | 10.19 | D-CB-12SD | | | | | | | | 1 | | | | | | |
| 8B | S.R. 317 | 198+50.71 | 36 | CB-31 | 802.24 | #12 | 7X7 | 8.57 | D-CB-12SD | | | | | | | | 1 | | | | | | |
| 8B | S.R. 317 | 801.56 | 36 | CB-32 | 801.56 | #14 | 8X3 | 4.05 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 7B | UNNAMED ST. | 10+75.13 | 14 | CB-33 | 838.28 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 7B | UNNAMED ST. | 10+75.00 | -14 | CB-34 | 837.88 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 7B | S.R. 317 | 182+23.00 | -36 | CB-35 | 831.03 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 7B | S.R. 317 | 186+20.00 | -36 | CB-36 | 825.45 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 7B | BRANSTON RD. | 18+11.45 | 27.5 | CB-37 | 823.88 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 7B | BRANSTON RD. | 16+83.93 | 13.19 | CB-38 | 833.44 | #12 | 4X3 | 7.05 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 7B | BRANSTON RD. | 16+83.93 | -13.19 | CB-39 | 833.40 | #12 | 4X3 | 7.15 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 7B | BRANSTON RD. | 18+07.62 | -27.55 | CB-40 | 823.93 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 8B | S.R. 317 | 199+60.00 | -36 | CB-41 | 803.20 | #14 | 8X3 | 4.05 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 8B | S.R. 317 | 202+00.00 | -36 | CB-42 | 804.41 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 9B | S.R. 317 | 204+00.00 | -36 | CB-43 | 804.17 | #12 | 4X3 | 4.78 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 9B | S.R. 317 | 206+72.00 | -36 | CB-44 | 804.20 | #12 | 4X3 | 6.27 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 9B | S.R. 317 | 208+51.00 | -36 | CB-45 | 799.01 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 9B | S.R. 317 | 210+50.00 | -36 | CB-46 | 792.18 | #12 | 4X3 | 4.55 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 9B | S.R. 317 | 213+00.07 | -36 | CB-47 | 783.60 | #12 | 4X3 | 4.38 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 9B | S.R. 317 | 213+39.00 | -61.5 | CB-48 | 777.65 | #42 | 4X4 | 5.42 | D-CB-42SB | | | | | | | | | | | | 1 | | |
| 9B | S.R. 317 | 215+00.01 | -36.23 | CB-49 | 777.27 | #12 | 4X4 | 6.25 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 10B | S.R. 317 | 217+99.89 | -42.88 | CB-50 | 772.71 | #12 | 4X4 | 5.50 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 9B | S.R. 317 | 214+84.00 | 36 | CB-51 | 778.27 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 10B | S.R. 317 | 217+50.74 | 36 | CB-52 | 772.63 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 10B | S.R. 317 | 219+50.59 | 36 | CB-53 | 770.82 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 10B | S.R. 317 | 220+66.58 | 36 | CB-54 | 769.98 | #12 | 4' DIA | 5.30 | D-CB-12RA | | | | | | | 1 | | | | | | | |
| 10B | PINE CIR. | 40+55.46 | 19.47 | CB-55 | 769.56 | #14 | 8X3 | 4.05 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 10B | PINE CIR. | 40+85.00 | 12 | CB-56 | 769.85 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 10B | PINE CIR. | 42+10.13 | 12 | CB-57 | 780.53 | #12 | 4X3 | 5.95 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 10B | PINE CIR. | 40+90.00 | -12 | CB-58 | 769.76 | #14 | 8X3 | 4.15 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 10B | PINE CIR. | 40+55.46 | -19.65 | CB-59 | 769.51 | #14 | 8X3 | 4.12 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 10B | S.R. 317 | 221+78.00 | 36 | CB-60 | 770.10 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 10B | S.R. 317 | 223+00.00 | 36 | CB-61 | 770.88 | #12 | 4X3 | 3.90 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 10B | S.R. 317 | 224+10.00 | 36 | CB-62 | 771.59 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 10B | S.R. 317 | 227+48.00 | 36 | CB-63 | 770.16 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 12B | S.R. 317 | 229+62.82 | 36 | CB-64 | 767.46 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 12B | S.R. 317 | 231+65.00 | 57 | CB-65 | 762.41 | #42 | 4x4 | 4.88 | D-CB-42SB | | | | | | | | | | | | 1 | | |
| 12B | S.R. 317 | 231+67.53 | 36 | CB-66 | 764.64 | #12 | 4X4 | 7.20 | D-CB-12SB | | | | | | | 1 | | | | | | | |
| 12B | S.R. 317 | 229+39.68 | -36.46 | CB-67 | 768.25 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 12B | S.R. 317 | 231+77.11 | -36 | CB-68 | 764.51 | #12 | 4X4 | 7.40 | D-CB-12SB | | | | | | | 1 | | | | | | | |
| 12B | S.R. 317 | 233+82.00 | -36 | CB-69 | 762.64 | #14 | 8X3 | 4.32 | D-CB-14S | | | | | | | | | | 1 | | | | |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 1 OF 8

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

8-JUN-2014 08:02
c:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\0020.SHT

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2R |
| | | | |
| | | | |

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

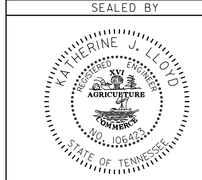
# CATCH BASINS, MANHOLES AND JUNCTION BOXES

| SHEET NO. | LOCATION | STATION | OFFSET (FT.) | DRAINAGE CODE | GRATE/TOP ELEV. | STRUCTURE TYPE | INSIDE DIMENSION | DEPTH (FT.) | STANDARD DRAWINGS | TYPE 3 M.H. 611-01.02 4' - 8' | TYPE B #1 J.B. 611-02.10 | TYPE B #2 J.B. 611-02.11 | TYPE B #3 J.B. 611-02.12 | TYPE B #4 J.B. 611-02.13 | TYPE 12 C.B. 611-12.01 0' - 4' | TYPE 12 C.B. 611-12.02 4' - 8' | TYPE 12 C.B. 611-12.03 8' - 12' | TYPE 12 611-12.04 12'-16' | TYPE 14 C.B. 611-14.02 4' - 8' | TYPE 42 C.B. 611-42.01 0' - 4' | TYPE 42 C.B. 611-42.02 4' - 8' | TYPE 2A S.D. 611-02.02 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12B | S.R. 317 | 233+82.00 | 36 | CB-70 | 762.64 | #14 | 8X3 | 4.05 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 12B | SWINYAR DR. | 50+62.90 | 20.79 | CB-71 | 763.12 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 12B | S.R. 317 | 235+94.26 | 46.28 | CB-72 | 764.54 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 12B | S.R. 317 | 236+55.00 | 36 | CB-73 | 764.10 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 242+10.20 | 39.61 | CB-74 | 763.67 | #12 | 4X3 | 5.30 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 13B | S.R. 317 | 243+29.95 | 42.27 | CB-75 | 763.02 | #12 | 32"X32" | 4.18 | D-CB-12LP | | | | | | | 1 | | | | | | | |
| 13B | S.R. 317 | 243+60.89 | 42.96 | CB-76 | 762.99 | #14 | 8X3 | 4.05 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 13B | S.R. 317 | 244+02.97 | 43.9 | CB-77 | 763.11 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 245+70.03 | 49.09 | CB-78 | 763.94 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 247+36.70 | 57.46 | CB-79 | 764.71 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 249+02.96 | 60 | CB-80 | 765.59 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 S. | 51+10.85 | 32 | CB-81 | 765.57 | #14 | 8X3 | 4.06 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 13B | S.R. 321 S. | 51+63.76 | 32 | CB-82 | 766.57 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 S. | 52+38.21 | 32 | CB-83 | 767.41 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 S. | 53+50.00 | 32 | CB-84 | 769.45 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 S. | 54+82.71 | 32 | CB-85 | 771.31 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 S. | 51+11.96 | -47.41 | CB-86 | 767.19 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 251+70.00 | 48 | CB-87 | 767.33 | #12 | 32"X32" | 3.95 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 251+79.28 | 48 | CB-88 | 767.44 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 254+48.89 | 47.13 | CB-89 | 711.61 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 15B | S.R. 317 | 257+34.53 | 41.12 | CB-90 | 776.21 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 12B | S.R. 317 | 236+38.00 | -36 | CB-91 | 764.00 | #12 | 32"X32" | 3.92 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 12B | S.R. 317 | 241+00.00 | -36 | CB-92 | 764.35 | #12 | 4X3 | 6.77 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 13B | S.R. 317 | 243+18.85 | -36 | CB-93 | 763.17 | #12 | 32"X32" | 4.24 | D-CB-12LP | | | | | | | 1 | | | | | | | |
| 13B | S.R. 317 | 243+61.33 | -36 | CB-94 | 763.13 | #14 | 8X3 | 4.05 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 13B | S.R. 317 | 244+02.97 | -36 | CB-95 | 763.27 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 245+50.74 | -36 | CB-96 | 764.49 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 245+60.00 | -49 | CB-97 | 764.49 | #42 | 32"X32" | 2.96 | D-CB-42S | | | | | | | | | | | 1 | | | |
| 13B | S.R. 317 | 247+38.00 | -36 | CB-98 | 765.15 | #12 | 32"X32" | 2.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 247+47.00 | -49 | CB-99 | 765.43 | #42 | 32"X32" | 2.96 | D-CB-42S | | | | | | | | | | | 1 | | | |
| 13B | S.R. 321 N. | 284+27.00 | 58.1 | CB-100 | 764.80 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 N. | 283+43.98 | 56 | CB-101 | 764.53 | #12 | 4X3 | 3.93 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 14B | S.R. 321 N. | 281+40.00 | 44 | CB-102 | 765.16 | #12 | 4X3 | 4.83 | D-CB-12S | | | | | | | 1 | | | | | | | |
| 14B | S.R. 321 N. | 281+70.00 | -32 | CB-103 | 765.00 | #12 | 4' DIA | 4.79 | D-CB-12RA | | | | | | | 1 | | | | | | | |
| 13B | S.R. 321 N. | 282+49.66 | -32 | CB-104 | 764.64 | #14 | 8X3 | 4.05 | D-CB-14S | | | | | | | | | | 1 | | | | |
| 13B | S.R. 321 N. | 283+38.00 | -32 | CB-105 | 764.99 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 N. | 284+15.68 | -32 | CB-106 | 765.31 | #12 | 4X3 | 3.88 | D-CB-12S | | | | | | 1 | | | | | | | | |
| 13B | S.R. 321 N. | 284+60.00 | -32 | CB-107 | 765.50 | #12 | 4' DIA | 3.88 | D-CB-12RA | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 250+98.72 | -48 | CB-108 | 766.93 | #12 | 4' DIA | 3.88 | D-CB-12RA | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 252+03.00 | -48 | CB-109 | 767.51 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 253+39.42 | -45.21 | CB-110 | 768.98 | #12 | 32"X32" | 3.98 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 13B | S.R. 317 | 255+00.00 | -36 | CB-111 | 772.06 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 15B | S.R. 317 | 257+34.54 | -36 | CB-112 | 776.28 | #12 | 32"X32" | 3.74 | D-CB-12LP | | | | | | 1 | | | | | | | | |
| 6B | S.R. 317 | 172+20.00 | 36 | JB-1 | 852.03 | JB#3 | 5'2"X5'2" | 10.46 | D-JBS-3 | | | | 1 | | | | | | | | | | |
| 7B | S.R. 317 | 186+73.10 | 36 | JB-2 | 822.90 | JB#4 | 7X7 | 13.72 | D-JBS-4 | | | | | 1 | | | | | | | | | |
| 8B | S.R. 317 | 194+42.55 | 36 | JB-3 | 809.37 | JB#4 | 7X7 | 13.79 | D-JBS-4 | | | | | 1 | | | | | | | | | |
| 7B | S.R. 317 | 178+42.80 | 57.92 | JB-4 | 837.90 | JB#2 | 4X4 | 5.49 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 9B | S.R. 317 | 213+40.90 | -36 | JB-5 | 782.20 | JB#2 | 4X4 | 10.25 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 12B | S.R. 317 | 231+87.21 | -36 | JB-6 | 764.37 | JB#2 | 4X4 | 7.29 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 12B | S.R. 317 | 236+20.00 | 46 | JB-7 | 764.85 | JB#1 | 32"X32" | 4.27 | D-JBS-1 | | 1 | | | | | | | | | | | | |
| 13B | S.R. 317 | 242+75.15 | 50.84 | JB-8 | 763.97 | JB#1 | 32"X32" | 5.46 | D-JBS-1 | | 1 | | | | | | | | | | | | |
| 13B | S.R. 317 | 245+93.53 | 59.98 | JB-9 | 764.74 | JB#1 | 32"X32" | 4.97 | D-JBS-1 | | 1 | | | | | | | | | | | | |
| 13B | S.R. 317 | 251+02.64 | 37.02 | JB-10 | 767.38 | JB#2 | 4X4 | 4.92 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 13B | S.R. 317 | 251+08.85 | 37.4 | JB-11 | 767.40 | JB#2 | 4X4 | 4.92 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 13B | S.R. 317 | 242+69.66 | -36 | JB-12 | 763.42 | JB#2 | 4X4 | 5.17 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 10B | S.R. 317 | 219+50.28 | -46.21 | JB-13 | 772.85 | JB#2 | 4X4 | 6.56 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 5B | S.R. 317 | 155+45.00 | -32.5 | JB-14 | 907.01 | JB#1 | 32"X32" | 3.29 | D-JBS-1 | | 1 | | | | | | | | | | | | |
| 5B | S.R. 317 | 158+55.00 | -32.5 | JB-15 | 891.71 | JB#1 | 32"X32" | 5.50 | D-JBS-1 | | 1 | | | | | | | | | | | | |
| 6B | S.R. 317 | 172+00.13 | -36 | JB-16 | 854.25 | JB#2 | 4X4 | 11.07 | D-JBS-2 | | | 1 | | | | | | | | | | | |
| 7B | S.R. 317 | 186+81.74 | -59.33 | MH-1 | 824.03 | MH | 6' DIA | 6.33 | D-MH-3 | 1 | | | | | | | | | | | | | |
| 7B | S.R. 317 | 187+32.79 | -57.72 | MH-2 | 823.89 | MH | 6' DIA | 6.63 | D-MH-3 | 1 | | | | | | | | | | | | | |
| 10B | S.R. 317 | 221+43.43 | 38.99 | MH-3 | 770.18 | MH | 5' DIA | 5.35 | D-MH-3 | 1 | | | | | | | | | | | | | |
| 13B | S.R. 317 | 249+89.05 | 70.48 | MH-4 | 765.82 | MH | 5' DIA | 4.48 | D-MH-3 | 1 | | | | | | | | | | | | | |
| 10B | S.R. 317 | 220+56.97 | 49 | SD-1 | 770.19 | SD#2 | 4X4 | 3.83 | D-SDS-2A | | | | | | | | | | | | | 1 | |
| **TOTALS** | | | | | | | | | | **4** | **5** | **8** | **1** | **2** | **55** | **27** | **8** | **2** | **13** | **2** | **5** | **1** | |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TABULATED QUANTITIES

SHEET 2 OF 8

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2S |
| | | | |
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| | | | |

# STORM DRAINAGE PIPES

| SHEET NO. | FROM CODE | FROM OUTLET ELEV. | TO CODE | TO INLET ELEV. | % GRADE | RCP CLASS III 607-03.02 18" (L.F.) | 607-05.02 24" (L.F.) | 607-06.02 30" (L.F.) | 607-07.02 36" (L.F.) | 607-08.02 42" (L.F.) | 607-09.02 48" (L.F.) | 607-10.02 54" (L.F.) | 607-11.03 60" (L.F.) | 607-16.02 30in x 19in Ellipse (L.F.) | 607-17.34 34in x 22in Ellipse (L.F.) | 607-16.04 38in x 24in Ellipse (L.F.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4B | CB-1 | 903.62 | CB-2 | 901.73 | 1.10 | 173 | | | | | | | | | | |
| 4B | CB-2 | 899.93 | ST-1 | 898.50 | 0.50 | 285 | | | | | | | | | | |
| 4B | CB-3 | 907.85 | CB-4 | 901.72 | 1.99 | 308 | | | | | | | | | | |
| 4B | CB-4 | 900.66 | ST-1 | 899.23 | 0.50 | | 285 | | | | | | | | | |
| 5B | CB-5 | 910.06 | JB-14 | 903.84 | 4.46 | 139 | | | | | | | | | | |
| 5B | JB-14 | 903.72 | CB-6 | 895.42 | 5.56 | 149 | | | | | | | | | | |
| 5B | CB-6 | 894.51 | JB-15 | 888.54 | 4.00 | 149 | | | | | | | | | | |
| 5B | JB-15 | 886.21 | CB-7 | 880.64 | 4.00 | 139 | | | | | | | | | | |
| 5B | CB-7 | 878.65 | CB-8 | 870.47 | 3.00 | 273 | | | | | | | | | | |
| 5B, 6B | CB-8 | 870.30 | CB-9 | 862.99 | 2.30 | 318 | | | | | | | | | | |
| 6B | CB-9 | 862.82 | CB-10 | 856.96 | 2.09 | 281 | | | | | | | | | | |
| 6B | CB-10 | 856.46 | CB-11 | 853.01 | 1.86 | | 186 | | | | | | | | | |
| 6B | CB-11 | 852.76 | JB-16 | 850.50 | 1.82 | | 129 | | | | | | | | | |
| 6B | CB-12 | 843.50 | JB-16 | 843.18 | 1.50 | | | | 22 | | | | | | | |
| 6B | JB-16 | 843.18 | JB-1 | 842.07 | 1.58 | | | | 70 | | | | | | | |
| 6B | CB-13 | 862.82 | CB-14 | 854.84 | 2.31 | 346 | | | | | | | | | | |
| 6B | CB-14 | 854.67 | CB-15 | 849.26 | 2.45 | 221 | | | | | | | | | | |
| 6B | CB-15 | 849.09 | JB-1 | 848.46 | 1.79 | 35 | | | | | | | | | | |
| 6B | JB-1 | 841.57 | CB-16 | 840.96 | 0.50 | | | | | 123 | | | | | | |
| 6B | CB-16 | 840.56 | CB-17 | 837.79 | 1.25 | | | | | 221 | | | | | | |
| 6B, 7B | CB-17 | 835.93 | CB-18 | 833.65 | 1.25 | | | | | 182 | | | | | | |
| 7B | CB-18 | 831.17 | CB-19 | 828.37 | 1.25 | | | | | 224 | | | | | | |
| 7B | CB-19 | 827.21 | CB-20 | 823.96 | 1.25 | | | | | 260 | | | | | | |
| 7B | CB-20 | 822.65 | CB-21 | 819.70 | 1.25 | | | | | 236 | | | | | | |
| 7B | CB-21 | 819.04 | JB-2 | 817.11 | 1.25 | | | | | 155 | | | | | | |
| 7B | CB-22 | 810.05 | JB-2 | 809.68 | 1.50 | | | | | | 25 | | | | | |
| 7B | JB-2 | 809.18 | CB-23 | 808.89 | 1.00 | | | | | | | 29 | | | | |
| 7B | CB-23 | 808.89 | CB-24 | 808.19 | 0.50 | | | | | | | 141 | | | | |
| 7B, 8B | CB-24 | 808.19 | CB-25 | 807.39 | 0.50 | | | | | | | 160 | | | | |
| 8B | CB-25 | 807.39 | CB-26 | 806.36 | 0.60 | | | | | | | 170 | | | | |
| 8B | CB-26 | 804.52 | CB-27 | 803.32 | 0.75 | | | | | | | 160 | | | | |
| 8B | CB-27 | 802.49 | JB-3 | 802.08 | 0.75 | | | | | | | 55 | | | | |
| 8B | CB-28 | 796.91 | JB-3 | 796.58 | 1.50 | | | | | | 22 | | | | | |
| 8B | JB-3 | 795.58 | CB-29 | 795.08 | 0.50 | | | | | | | | 99 | | | |
| 8B | CB-29 | 795.08 | CB-30 | 794.29 | 0.50 | | | | | | | | 160 | | | |
| 8B | CB-30 | 794.29 | CB-31 | 793.67 | 0.50 | | | | | | | | 122 | | | |
| 8B | CB-31 | 793.67 | EW-2 | 793.37 | 0.50 | | | | | | | | 61 | | | |
| 8B | CB-32 | 797.51 | ST-3 | 797.34 | 0.53 | 32 | | | | | | | | | | |
| 7B | CB-33 | 834.40 | CB-34 | 834.17 | 1.00 | 23 | | | | | | | | | | |
| 7B | CB-34 | 834.00 | JB-4 | 833.94 | 0.50 | 13 | | | | | | | | | | |
| 7B | EW-3 | 833.00 | JB-4 | 832.40 | 1.00 | | | | 56 | | | | | | | |
| 7B | JB-4 | 832.41 | EW-4 | 832.30 | 0.40 | | | | 28 | | | | | | | |
| 7B | CB-35 | 827.29 | CB-36 | 821.83 | 1.37 | 400 | | | | | | | | | | |
| 7B | CB-36 | 821.71 | EW-5 | 821.62 | 0.50 | 17 | | | | | | | | | | |
| 7B | EW-6 | 818.50 | MH-1 | 817.95 | 2.55 | | | | | | 22 | | | | | |
| 7B | MH-1 | 817.70 | MH-2 | 817.51 | 0.40 | | | | | 46 | | | | | | |
| 7B | MH-2 | 817.26 | EW-7 | 817.15 | 0.40 | | | | | 28 | | | | | | |
| 7B | CB-38 | 826.39 | CB-37 | 820.17 | 5.00 | 124 | | | | | | | | | | |
| 7B | CB-37 | 820.00 | MH-1 | 819.96 | 0.40 | 12 | | | | | | | | | | |
| 7B | CB-39 | 826.25 | CB-40 | 820.22 | 5.00 | 125 | | | | | | | | | | |
| 7B | CB-40 | 820.05 | MH-2 | 819.99 | 0.40 | 16 | | | | | | | | | | |
| 8B | CB-41 | 799.15 | ST-4 | 798.00 | 3.41 | 34 | | | | | | | | | | |
| 8B, 9B | CB-42 | 800.53 | CB-43 | 799.56 | 0.50 | 193 | | | | | | | | | | |
| 9B | CB-43 | 799.39 | CB-44 | 798.10 | 0.50 | 259 | | | | | | | | | | |
| 9B | CB-44 | 797.93 | CB-45 | 795.30 | 1.55 | 169 | | | | | | | | | | |
| 9B | CB-45 | 795.13 | CB-46 | 788.47 | 3.53 | 189 | | | | | | | | | | |
| 9B | CB-46 | 787.63 | CB-47 | 779.89 | 3.25 | 238 | | | | | | | | | | |
| 9B | CB-47 | 779.22 | JB-5 | 778.45 | 2.17 | 36 | | | | | | | | | | |
| 9B | CB-48 | 772.23 | JB-5 | 772.12 | 0.50 | | | | 22 | | | | | | | |
| 9B | JB-5 | 771.95 | CB-49 | 771.19 | 0.50 | | | | 152 | | | | | | | |
| 9B, 10B | CB-49 | 771.02 | CB-50 | 767.38 | 1.23 | | | | 296 | | | | | | | |
| 10B | CB-50 | 767.21 | JB-13 | 766.47 | 0.50 | | | | 149 | | | | | | | |
| 10B | JB-13 | 766.30 | ST-9 | 766.21 | 0.50 | | | | 17 | | | | | | | |
| 10B | CB-51 | 774.39 | CB-52 | 768.71 | 2.16 | 263 | | | | | | | | | | |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 3 OF 8

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2V |
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## BOX CULVERT TABULATION

| STATION | LOCATION | SPAN | HEIGHT | LENGTH | SKEW | DRAINAGE AREA ACRES | BOX CULVERT BOX CLASS "A" CONC. CU. YD. | BOX CULVERT BOX REINF. STEEL LBS. | CULVERT EXC. CU. YD. | DRAWING NO. | BACKFILLING ITEM 303-01.02 DWG. STD-10-1 TONS | FOUNDATION FILL MATERIAL ITEM 204-08 CU. YD. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200+00 | S.R. 317 | 6 | 3 | 109.66 | 90 | 67.89 | 76 | 16770 | SEE NOTE * | STD-17-51 | 247 | 20.31 |
| 20+97.01 | LaCollina Way | 10 | 4 | 56.31 | 75 | 373.7 | PRECAST | PRECAST | SEE NOTE * | STD-15-28 | 190 | 32 |
| TOTALS | | | | | | | 76 | 16770 | | | 437 | 52.31 |

* 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.

## STORM DRAINAGE ENDWALLS

| SHEET NO. | LOCATION | STATION | OFFSET (FT.) | DRAINAGE CODE | STRUCTURE TYPE | STANDARD DRAWING | CLASS A CONC. 611-07.01 (C.Y.) | REINF. STEEL 611-07.02 (LB.) | STRUC. STEEL 611-07.03 (LB.) |
|---|---|---|---|---|---|---|---|---|---|
| 8B | S.R. 317 | 199+12.73 | 54.844 | EW-2 | A | D-PE-1 | 9.07 | 120 | |
| 7B | S.R. 317 | 177+84.69 | 59.65 | EW-3 | A | D-PE-1 | 3.89 | 73 | |
| 7B | S.R. 317 | 178+72.44 | 57.03 | EW-4 | A | D-PE-1 | 3.89 | 73 | |
| 7B | S.R. 317 | 186+30.00 | -50.28 | EW-5 | U | D-PE-4 | 1.16 | 40 | |
| 7B | S.R. 317 | 186+57.68 | -60.93 | EW-6 | A | D-PE-1 | 5.88 | 90 | |
| 7B | S.R. 317 | 187+63.19 | -56.29 | EW-7 | A | D-PE-1 | 4.72 | 79 | |
| 10B | S.R. 317 | 220+66.54 | 50.42 | EW-8 | U | D-PE-4 | 1.86 | 68 | |
| 10B | S.R. 317 | 221+65.49 | 55.05 | EW-9 | U | D-PE-4 | 1.86 | 68 | |
| 12B | S.R. 317 | 231+80.00 | -57.68 | EW-10 | U | D-PE-4 | 2.98 | 90 | |
| 12B | S.R. 317 | 231+85.00 | -57.68 | EW-11 | U | D-PE-4 | 2.98 | 90 | |
| 12B | S.R. 317 | 235+11.67 | 54.32 | EW-12 | A | D-PE-1 | 3.89 | 73 | |
| 12B | SWINYAR DR. | 50+62.74 | 34.203 | EW-13 | U | D-PE-4 | 1.16 | 40 | |
| 12B | SWINYAR DR. | 50+72.00 | 43.66 | EW-14 | U | D-PE-4 | 1.16 | 40 | |
| 12B | S.R. 317 | 236+17.88 | 56 | EW-15 | U | D-PE-4 | 1.16 | 40 | |
| 13B | S.R. 321 S. | 51+14.59 | -64.257 | EW-16 | U | D-PE-4 | 1.16 | 40 | |
| 13B | S.R. 317 | 251+37.82 | 71.6 | EW-17 | U | D-PE-4 | 2.98 | 90 | |
| 13B | S.R. 317 | 251+40.82 | 68.93 | EW-18 | U | SEE SHT. 2Y | 50 | 100 | |
| 13B | S.R. 317 | 251+68.64 | 63.964 | EW-19 | U | SEE SHT. 2Y | | | |
| 13B | S.R. 317 | 251+78.56 | 63.897 | EW-20 | U | D-PE-4 | 1.16 | 40 | |
| 13B | S.R. 317 | 243+00.00 | -54.38 | EW-21 | U | D-PE-4 | 1.16 | 40 | |
| TOTALS | | | | | | | 102.12 | 1294 | |

## SPECIAL DITCHES

| ROAD | SIDE LT | SIDE RT | STATION FROM | STATION TO | SLOPE FORE (H/V) | SLOPE BOTTOM WIDTH (FT.) | SLOPE BACK (H/V) | SEEDING (WITHOUT MULCH) 801-02 (UNIT) | SODDING 803-01 (S.Y.) | TRM (CLASS I) 805-01.01 (S.Y.) | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SR 317 | | X | 141+50 | 144+50 | 2:1 | | 2:1 | | 200 | | "V" SOD |
| SR 317 | X | | 141+50 | 147+00 | 2:1 | | 2:1 | | 611 | | "V" SOD |
| SR 317 | X | | 151+00 | 162+90.22 | 2:1 | 2 | | | | 1453 | F.B. TRM |
| SR 317 | | X | 160+00 | 162+88.45 | 2:1 | | 2:1 | 3.2 | | 353 | "V" TRM |
| SR 317 | X | | 164+09.78 | 172+00 | 2:1 | 2 | 2:1 | | | 967 | F.B. TRM |
| SR 317 | | X | 164+11.55 | 167+00 | 2:1 | | 2:1 | 3.2 | | 353 | "V" TRM |
| SR 317 | X | | 173+00 | 177+65.35 | 2:1 | 2 | 2:1 | | | 817 | F.B. TRM |
| SR 317 | | X | 176+00 | 177+87.79 | 2:1 | | 2:1 | 2.1 | | 230 | "V" TRM |
| SR 317 | X | | 178+90.13 | 182+00.00 | 2:1 | 2 | 2:1 | | | 448 | F.B. TRM |
| SR 317 | | X | 178+67.52 | 199+38.39 | 2:1 | | 2:1 | 33.1 | | 3682 | "V" TRM |
| SR 317 | X | | 201+50 | 204+50 | 2:1 | | 2:1 | | 661 | | "V" SOD |
| SR 317 | X | | 216+50 | 220+00 | 2:1 | | 2:1 | | 350 | | "V" SOD |
| SR 317 | X | | 243+00 | 245+00 | 2:1 | | 2:1 | | 249 | | "V" SOD |
| SR 321 S. | X | | 53+00 | 55+00 | 2:1 | | 2:1 | 2 | | 221 | "V" TRM |
| TOTAL | | | | | | | | 43.60 | 2071.00 | 8524.00 | |

## SPRING DRAINS

| STATION | LOCATION | OFFSET (FT.) | 24" PIPE | TYPE | DEPTH | DRAWING NO. | REMARKS |
|---|---|---|---|---|---|---|---|
| 220+56.97 | SR 317 | 49 | 1 | 2A | 3.83 | D-SDS-2A | SHEET SHT. 10 SERIES |
| | | | | | | | |
| TOTALS | | | 1 | | | | |

## ROADSIDE DITCHES

| ROAD | SIDE LT | SIDE RT | STATION FROM | STATION TO | SLOPE FORE (H/V) | SLOPE BOTTOM WIDTH (FT.) | SLOPE BACK (H/V) | SEEDING (WITHOUT MULCH) 801-02 (UNIT) | SODDING 803-01 (S.Y.) | TRM (CLASS I) 805-01.01 (S.Y.) | TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S.R. 317 | X | | 147+00 | 150+50 | 2:1 | | 2:1 | | 428 | | "V" SOD |
| S.R. 317 | | X | 149+00 | 152+00 | 2:1 | | 2:1 | | 367 | | "V" SOD |
| S.R. 317 | | X | 158+50 | 160+00 | 2:1 | | 2:1 | 1.7 | | 183 | "V" TRM |
| S.R. 317 | | X | 167+00 | 176+00 | 2:1 | | 2:1 | 10 | | 1100 | "V" TRM |
| S.R. 317 | X | | 192+00 | 192+50 | 2:1 | | 2:1 | | 33 | | "V" SOD |
| S.R. 317 | X | | 194+00 | 196+50 | 2:1 | | 2:1 | | 278 | | "V" SOD |
| S.R. 317 | | X | 200+16 | 200+50 | 2:1 | | 2:1 | | 38 | | "V" SOD |
| S.R. 317 | X | | 200+50 | 201+00 | 2:1 | | 2:1 | | 89 | | "V" SOD |
| S.R. 317 | | X | 201+50 | 202+50 | 2:1 | | 2:1 | | 122 | | "V" SOD |
| S.R. 317 | X | | 204+50 | 212+00 | 2:1 | | 2:1 | 8.3 | | 917 | "V" TRM |
| S.R. 317 | | X | 207+50 | 210+89 | 2:1 | | 2:1 | | 414 | | "V" SOD |
| S.R. 317 | X | | 215+50 | 216+00 | 2:1 | | 2:1 | | 83 | | "V" SOD |
| S.R. 317 | | X | 219+00 | 220+50 | 2:1 | | 2:1 | | 183 | | "V" SOD |
| S.R. 317 | | X | 221+50 | 225+00 | 2:1 | | 2:1 | | 218 | | "V" SOD |
| S.R. 317 | | X | 225+00 | 230+00 | 2:1 | | 2:1 | 5 | | 556 | "V" TRM |
| S.R. 317 | | X | 236+50 | 238+00 | 2:1 | | 2:1 | | 183 | | "V" SOD |
| S.R. 317 | X | | 243+00 | 245+00 | 2:1 | | 2:1 | | 222 | | "V" SOD |
| S.R. 317 | | X | 252+00 | 257+37.75 | 2:1 | | 2:1 | 5.3 | | 590 | "V" TRM |
| S.R. 317 | | X | 257+37.75 | 259+97.74 | 3:1 | | 3:1 | 2.6 | | 285 | "V" TRM |
| S.R. 321 SOUTH | X | | 51+50 | 53+00 | 2:1 | | 2:1 | 1.5 | | 166 | "V" TRM |
| S.R. 321 SOUTH | X | | 55+00 | 56+89.93 | 2:1 | | 2:1 | 1.9 | | 210 | "V" TRM |
| PATTONTOWN RD. | X | | 5+44.92 | 7+43.77 | 3:1 | | 2:1 | | 133 | | "V" SOD |
| TOTAL | | | | | | | | 36.30 | 2791.00 | 4007.00 | |

## R.O.W. MARKERS

| SHEET NO. | QUANTITIES "A" | "B" | "C" | TOTALS |
|---|---|---|---|---|
| 4A | 4 | 1 | 3 | 8 |
| 5A | 3 | 4 | 2 | 9 |
| 6A | 3 | 0 | 2 | 5 |
| 7A | 2 | 4 | 7 | 13 |
| 8A | 2 | 3 | 4 | 9 |
| 9A | 4 | 0 | 0 | 4 |
| 10A | 1 | 2 | 5 | 8 |
| 12A | 6 | 6 | 8 | 20 |
| 13A | 15 | 3 | 6 | 24 |
| 14A | 7 | 1 | 1 | 9 |
| 15A | 3 | 0 | 0 | 3 |
| | | | | |
| TOTALS | 50 | 24 | 38 | 112 |

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 6 OF 8

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2T |

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

# STORM DRAINAGE PIPES

| SHEET NO. | FROM CODE | FROM OUTLET ELEV. | TO CODE | TO INLET ELEV. | % GRADE | RCP CLASS III 607-03.02 18" (L.F.) | 607-05.02 24" (L.F.) | 607-06.02 30" (L.F.) | 607-07.02 36" (L.F.) | 607-08.02 42" (L.F.) | 607-09.02 48" (L.F.) | 607-010.02 54" (L.F.) | 607-11.03 60" (L.F.) | 607-16.02 30in x 19in Ellipse (L.F.) | 607-17.34 34in x 22in Ellipse (L.F.) | 607-16.04 38in x 24in Ellipse (L.F.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10B | CB-52 | 768.54 | ST-6 | 768.48 | 0.50 | 12 | | | | | | | | | | |
| 10B | CB-53 | 766.94 | ST-8 | 766.67 | 0.50 | 30 | | | | | | | | | | |
| 10B | SD-1 | 766.31 | ST-7 | 765.81 | 0.50 | | 110 | | | | | | | | | |
| 10B | CB-54 | 764.68 | ST-10 | 764.24 | 0.50 | | 90 | | | | | | | | | |
| 10B | EW-8 | 767.10 | CB-54 | 765.73 | 11.00 | | 13 | | | | | | | | | |
| 10B | CB-55 | 765.51 | CB-54 | 765.35 | 0.50 | 31 | | | | | | | | | | |
| 10B | CB-56 | 765.97 | CB-55 | 765.84 | 0.55 | 25 | | | | | | | | | | |
| 10B | CB-57 | 774.58 | CB-56 | 766.14 | 7.00 | 121 | | | | | | | | | | |
| 10B | CB-58 | 765.61 | CB-59 | 765.51 | 0.40 | 28 | | | | | | | | | | |
| 10B | CB-59 | 765.39 | MH-3 | 765.33 | 0.50 | 11 | | | | | | | | | | |
| 10B | MH-3 | 764.83 | ST-11 | 764.28 | 0.40 | | | | | | | | | | | 137 |
| 10B | CB-60 | 766.22 | MH-3 | 766.10 | 0.40 | 30 | | | | | | | | | | |
| 10B | EW-9 | 766.00 | MH-3 | 765.11 | 3.65 | | 24 | | | | | | | | | |
| 10B | CB-61 | 766.98 | CB-60 | 766.39 | 0.51 | 116 | | | | | | | | | | |
| 10B | CB-62 | 767.71 | CB-61 | 766.98 | 0.70 | 104 | | | | | | | | | | |
| 10B, 12B | CB-63 | 766.28 | CB-64 | 763.75 | 1.21 | 209 | | | | | | | | | | |
| 12B | CB-64 | 763.58 | CB-66 | 760.85 | 1.36 | 201 | | | | | | | | | | |
| 12B | CB-65 | 757.53 | CB-66 | 757.44 | 0.50 | | | 18 | | | | | | | | |
| 12B | CB-66 | 757.44 | CB-68 | 757.10 | 0.50 | | | 67 | | | | | | | | |
| 12B | CB-67 | 764.37 | CB-68 | 760.72 | 1.57 | 234 | | | | | | | | | | |
| 12B | CB-68 | 757.10 | EW-10 | 757.00 | 0.50 | | | 21 | | | | | | | | |
| 12B | ST-12 | 759.72 | JB-6 | 757.57 | 0.50 | | | 91 | | | | | | | | |
| 12B | JB-6 | 757.08 | EW-11 | 757.00 | 0.40 | | | 20 | | | | | | | | |
| 12B | CB-69 | 758.32 | JB-6 | 759.24 | 0.47 | 189 | | | | | | | | | | |
| 12B | CB-70 | 758.59 | CB-69 | 758.32 | 0.40 | 67 | | | | | | | | | | |
| 12B | EW-12 | 759.54 | ST-13 | 759.36 | 0.50 | | | | | | | | | | 36 | |
| 12B | CB-71 | 759.99 | EW-13 | 759.94 | 0.40 | 13 | | | | | | | | | | |
| 12B | CB-72 | 760.80 | JB-7 | 760.68 | 0.50 | 24 | | | | | | | | | | |
| 12B | EW-15 | 761.24 | JB-7 | 761.19 | 0.50 | 9 | | | | | | | | | | |
| 12B | JB-7 | 760.59 | ST-16 | 759.29 | 0.50 | 260 | | | | | | | | | | |
| 12B | CB-73 | 760.36 | ST-15 | 760.35 | 0.50 | 2 | | | | | | | | | | |
| 12B, 13B | CB-74 | 758.37 | ST-18 | 757.15 | 0.40 | | | | | | | | | 306 | | |
| 13B | CB-75 | 758.84 | CB-74 | 758.37 | 0.40 | 117 | | | | | | | | | | |
| 13B | CB-76 | 758.94 | CB-75 | 758.84 | 0.40 | 26 | | | | | | | | | | |
| 13B | CB-77 | 759.37 | CB-76 | 759.23 | 0.40 | 37 | | | | | | | | | | |
| 13B | CB-78 | 760.20 | CB-77 | 759.49 | 0.43 | 164 | | | | | | | | | | |
| 13B | CB-79 | 760.97 | CB-78 | 760.31 | 0.40 | 164 | | | | | | | | | | |
| 13B | CB-80 | 761.85 | CB-79 | 761.09 | 0.47 | 164 | | | | | | | | | | |
| 12B, 13B | JB-8 | 758.51 | ST-17 | 757.04 | 0.40 | 369 | | | | | | | | | | |
| 13B | JB-9 | 759.78 | JB-8 | 758.51 | 0.40 | 316 | | | | | | | | | | |
| 13B | MH-4 | 761.35 | JB-9 | 759.77 | 0.40 | 392 | | | | | | | | | | |
| 13B | CB-81 | 761.51 | MH-4 | 761.34 | 0.40 | 44 | | | | | | | | | | |
| 13B | CB-82 | 762.31 | CB-81 | 761.85 | 1.00 | 47 | | | | | | | | | | |
| 13B | CB-83 | 763.67 | CB-82 | 762.43 | 1.76 | 70 | | | | | | | | | | |
| 13B | CB-84 | 765.72 | CB-83 | 763.79 | 1.80 | 107 | | | | | | | | | | |
| 13B | CB-85 | 767.57 | CB-84 | 765.83 | 1.36 | 128 | | | | | | | | | | |
| 13B | CB-86 | 763.45 | EW-16 | 763.39 | 0.40 | 16 | | | | | | | | | | |
| 13B | EW-17 | 762.66 | JB-10 | 762.46 | 0.42 | | | | 47 | | | | | | | |
| 13B | JB-10 | 762.46 | ST-21 | 762.46 | 0.00 | | | | | | | | | | | |
| 13B | EW-18 | 762.66 | JB-11 | 762.49 | 0.41 | | | | 43 | | | | | | | |
| 13B | JB-11 | 762.49 | ST-22 | 762.49 | 0.00 | | | | | | | | | | | |
| 13B | CB-87 | 763.38 | EW-19 | 763.32 | 0.40 | 15 | | | | | | | | | | |
| 13B | CB-88 | 763.70 | EW-20 | 763.64 | 0.40 | 15 | | | | | | | | | | |
| 13B | CB-89 | 767.88 | CB-88 | 763.82 | 1.50 | 270 | | | | | | | | | | |
| 13B | CB-90 | 772.47 | CB-89 | 767.99 | 1.58 | 283 | | | | | | | | | | |
| 12B | CB-91 | 760.08 | ST-19 | 758.47 | 0.80 | 202 | | | | | | | | | | |
| 12B | CB-92 | 757.58 | ST-20 | 756.66 | 0.40 | | 232 | | | | | | | | | |
| 12B, 13B | JB-12 | 758.25 | CB-92 | 757.58 | 0.40 | | 166 | | | | | | | | | |
| 13B | CB-93 | 758.93 | JB-12 | 758.75 | 0.40 | 46 | | | | | | | | | | |
| 13B | EW-21 | 760.79 | JB-12 | 760.30 | 1.43 | 35 | | | | | | | | | | |
| 13B | CB-94 | 759.08 | CB-93 | 758.93 | 0.40 | 37 | | | | | | | | | | |
| 13B | CB-95 | 759.53 | CB-94 | 759.39 | 0.40 | 36 | | | | | | | | | | |
| 13B | CB-96 | 760.36 | CB-95 | 759.65 | 0.49 | 145 | | | | | | | | | | |

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 4 OF 8

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2U |

## STORM DRAINAGE PIPES

| SHEET NO. | FROM CODE | FROM OUTLET ELEV. | TO CODE | TO INLET ELEV. | % GRADE | RCP CLASS III 607-03.02 18" (L.F.) | 607-05.02 24" (L.F.) | 607-06.02 30" (L.F.) | 607-07.02 36" (L.F.) | 607-08.02 42" (L.F.) | 607-09.02 48" (L.F.) | 607-10.02 54" (L.F.) | 607-11.03 60" (L.F.) | 607-16.02 30in x 19in Ellipse (L.F.) | 607-17.34 34in x 22in Ellipse (L.F.) | 607-16.04 38in x 24in Ellipse (L.F.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13B | CB-97 | 761.53 | CB-96 | 760.48 | 7.29 | 14 | | | | | | | | | | |
| 13B | CB-98 | 761.42 | CB-96 | 760.48 | 0.51 | 185 | | | | | | | | | | |
| 13B | CB-99 | 762.47 | CB-98 | 761.53 | 6.63 | 14 | | | | | | | | | | |
| 13B | CB-100 | 760.92 | CB-101 | 760.60 | 0.40 | 79 | | | | | | | | | | |
| 13B | CB-101 | 760.60 | ST-23 | 760.56 | 0.40 | 10 | | | | | | | | | | |
| 13B | CB-102 | 760.33 | ST-25 | 760.00 | 11.00 | 3 | | | | | | | | | | |
| 13B | CB-103 | 760.40 | ST-24 | 760.10 | 0.40 | | | | | | | | | 76 | | |
| 13B | CB-104 | 760.78 | CB-103 | 760.48 | 0.40 | 74 | | | | | | | | | | |
| 13B | CB-105 | 761.11 | CB-104 | 760.78 | 0.40 | 82 | | | | | | | | | | |
| 13B | CB-106 | 761.43 | CB-105 | 761.13 | 0.40 | 74 | | | | | | | | | | |
| 13B | CB-107 | 761.62 | CB-106 | 761.46 | 0.40 | 40 | | | | | | | | | | |
| 13B | CB-108 | 763.05 | CB-107 | 761.79 | 1.52 | 83 | | | | | | | | | | |
| 13B | CB-109 | 763.77 | CB-108 | 763.38 | 0.40 | 98 | | | | | | | | | | |
| 13B | CB-110 | 765.00 | CB-109 | 763.89 | 0.84 | 132 | | | | | | | | | | |
| 13B, 15B | CB-111 | 768.32 | CB-110 | 765.36 | 1.88 | 157 | | | | | | | | | | |
| 13B, 15B | CB-112 | 772.54 | CB-111 | 768.44 | 1.77 | 232 | | | | | | | | | | |
| TOTALS | | | | | | 11197 | 1235 | 217 | 902 | 1475 | 69 | 715 | 442 | 382 | 36 | 137 |

## SIDE DRAIN TABULATION

| STATION | LOCATION LT | LOCATION RT | DESCRIPTION | SURFACE WIDTH (L.F.) | RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT. 18" | 24" | 30" | 36" | 42" | 48" | 38" X 24" | 45" X 29" | BOX CULVERT 6' X 3' | END TREATMENT TYPE | DRAWING NO. | CLASS A CONC. 611-07.01 (C.Y.) | REINF. STEEL 611-07.02 (LB.) | STRUC. STEEL 611-07-03 (LB.) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 142+21.24 | | X | S.R. 317 | 18 | 39 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 143+14.17 | | X | S.R. 317 | 12 | 28 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 144+61.33 | | X | S.R. 317 | 12 | 28 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 145+50.00 | | X | S.R. 317 | | 27 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 146+55.77 | X | | S.R. 317 | 16 | 28 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 150+50.88 | | X | S.R. 317 | 30 | 46 | | | | | | | | | FIELD ENT. | | | | | NO ENDWALL REQUIRED |
| 150+57.04 | X | | S.R. 317 | 12 | 22 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 163+50.00 | X | | S.R. 317 | 40 | | | 105 | | | | | | | OPENING | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 163+50.00 | | X | S.R. 317 | 40 | | | 107 | | | | | | | OPENING | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 174+00.00 | | X | S.R. 317 | 40 | | | | | | | | 52 | | ACCESS DR. | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 176+17.26 | | X | S.R. 317 | 12 | | | | 21 | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 178+27.44 | X | | S.R. 317 | 40 | | 90 | | | | | | | | OPENING | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 179+52.67 | X | | S.R. 317 | 12 | | | 22 | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 181+64.00 | | X | S.R. 317 | 12 | | | | | 25 | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 182+57.05 | | X | S.R. 317 | 12 | | | | | 30 | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 183+18.02 | X | | S.R. 317 | 12 | | | | 24 | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 184+98.68 | X | | S.R. 317 | 12 | | | | 30 | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 185+27.78 | | X | S.R. 317 | 12 | | | | | | 28 | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 188+36.38 | | X | S.R. 317 | 12 | | | 32 | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 190+61.23 | X | | S.R. 317 | 12 | | | | | 24 | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 191+73.47 | X | | S.R. 317 | 12 | | | | | | 22 | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 192+72.13 | X | | S.R. 317 | 12 | | | | | | 21 | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 195+30.14 | | X | S.R. 317 | 12 | | | 30 | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 196+01.71 | X | | S.R. 317 | 12 | | | | | | | | | 22 | PRIVATE | | | | | NOW WINGWALL REQUIRED |
| 197+03.96 | | X | S.R. 317 | 12 | | | | | | | | | 20 | PRIVATE | | | | | NOW WINGWALL REQUIRED |
| 197+14.74 | X | | S.R. 317 | 12 | | | | | | | | | 22 | PRIVATE | | | | | NOW WINGWALL REQUIRED |
| 197+76.46 | | X | S.R. 317 | 16 | | | | | | | | | 24 | PRIVATE | | | | | NOW WINGWALL REQUIRED |
| 202+77.43 | X | | S.R. 317 | 12 | | 22 | | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 206+95.64 | X | | S.R. 317 | 12 | | 22 | | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 209+54.83 | X | | S.R. 317 | 12 | | 22 | | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 211+00.01 | | X | S.R. 317 | 12 | 22 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 214+34.04 | X | | S.R. 317 | 12 | 24 | | | | | | | | | PRIVATE | | | | | NO ENDWALL REQUIRED |
| 217+33.79 | X | | S.R. 317 | 12 | | 23 | | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 219+24.70 | X | | S.R. 317 | 12 | | 22 | | | | | | | | PRIVATE | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| 56+09.62 | X | | S.R. 321 S | 40 | | | | | | | 67 | | | OPENING | D-SEW-1A | | | | INLET BEVEL @ 45 DEGREE |
| | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | 264 | 201 | 296 | 75 | 79 | 71 | 67 | 52 | 88 | | | 0 | 0 | 0 | |

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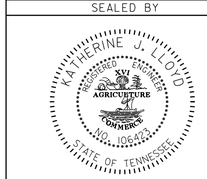


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 5 OF 8

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2W |

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

## BOX BRIDGE TABULATION

| STATION | LOCATION | SPAN | HEIGHT | LENGTH | SKEW | DRAINAGE AREA ACRES | BOX BRIDGE BOX CLASS "A" CONC. CU. YD. | BOX BRIDGE BOX REINF. STEEL LBS. | * CULVERT EXC. CU. YD. | DRAWING NO. | BACKFILLING ITEM 303-01.02 DWG. STD-10-1 TONS | FOUNDATION FILL MATERIAL ITEM 204-08 CU. YD. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 219+30.37 | S.R. 317 | 2@14 | 6 | 469 | 30 | 1197 | 1467 | 302,065 | SEE NOTE * | STD-17-79 | 402 | 556 | RIDING SURFACE |
| 26+94.68 | LITTLE DEBBIE PKWY. | 2@12 | 10 | 20' RT., 20' LT. | 90 RT., 45 LT. | 1222.4 | 186 | 32,020 | SEE NOTE * | STD-17-78 | 1378 | 42 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| TOTALS | | | | | | | 1653 | 334085 | 0 | | 1780 | 598 | |

* 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.

## PROPOSED GUARDRAIL

| SHEET NO. | LOCATION | SIDE LT | SIDE RT | STATION FROM | STATION TO | GUARDRAIL AT BRIDGE ENDS 705-01.01 (L.F.) | MENTAL BEAM GUARD FENCE 705-01.04 (L.F.) | SINGLE TYPE 2 GUARDRAIL 705-02.02 (L.F.) | TYPE 21 TERMINAL 705-04.04 (EACH) | TYPE IN-LINE TERMINAL 705-04.05 (EACH) | TYPE 38 TERMINAL 705-04.07 (EACH) | RADIUS RAIL 706-06.03 (L.F.) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8B-9B | S.R. 317 | | X | 202+50.00 | 208+00.00 | | | 420.17 | | 2 | 2 | | |
| 9B-10B | S.R. 317 | | X | 211+13.32 | 216+50.00 | | | 494.38 | | 5 | 1 | | |
| 10B | S.R. 317 | X | | 219+38.13 | 219+94.50 | | | 56.37 | | 1 | | | |
| 10B | S.R. 317 | X | | 219+94.50 | 220+46.54 | | 52.04 | | | | | | |
| 10B | S.R. 317 | X | | 220+46.54 | 221+45.43 | | | 48.89 | | | 1 | | |
| 11B | LITTLE DEBBIE PKWY. | | X | 25+75.20 | 26+00.20 | | | | 1 | 1 | | | |
| 10B | LITTLE DEBBIE PKWY. | | X | 26+00.20 | 27+10.33 | | | 110.13 | | | | | |
| 10B | LITTLE DEBBIE PKWY. | | X | 27+10.33 | 27+46.63 | | 36.30 | | | | | | |
| 10B | LITTLE DEBBIE PKWY. | | X | 27+46.63 | 28+23.79 | | | 77.16 | | | | | |
| 10B | LITTLE DEBBIE PKWY. | | X | 28+23.79 | 28+48.79 | | | | 1 | | | | |
| 10B-11B | LITTLE DEBBIE PKWY. | X | | 25+42.09 | 26+38.69 | | | 96.60 | | | | | |
| 10B | LITTLE DEBBIE PKWY. | X | | 26+38+69 | 26+74.35 | | 35.66 | | | | | | |
| 10B | LITTLE DEBBIE PKWY. | X | | 26+74.35 | 28+26.45 | | | 152.10 | | | | | |
| 10B | LITTLE DEBBIE PKWY. | X | | 28+26.45 | 28+51.45 | | | | 1 | | | | |
| 12B | S.R. 317 | X | | 237+64.27 | 238+29.84 | 26.89 | | 38.68 | | 1 | | | |
| 12B | S.R. 317 | X | | 238+59.42 | 238+79.61 | 14.58 | | | | | | 20.80 | |
| 12B | S.R. 317 | | X | 238+60.78 | 238+81.97 | 13.16 | | | | | | 15.45 | |
| 12B | S.R. 317 | | X | 239+10.05 | 239+86.94 | 26.89 | | | | | 1 | | |
| 14B | S.R. 321 NORTH | X | X | 278+49.66 | 278+62.22 | | | 25.00 | 2.00 | | | | |
| TOTAL | | | | | | 81.52 | 124.00 | 1519.48 | 5.00 | 10.00 | 5.00 | 36.25 | |

## GUARDRAIL TO BE REMOVED

| SHEET NO. | LOCATION | SIDE LT | SIDE RT | STATION FROM | STATION TO | GUARDRAIL REMOVED 706-01 (L.F.) | REMARKS |
|---|---|---|---|---|---|---|---|
| 10-11 | LITTLE DEBBIE PKWY. | | X | 25+65.27 | 28+66.18 | 300.91 | |
| 10-11 | LITTLE DEBBIE PKWY. | X | | 25+42.09 | 27+73.30 | 231.21 | |
| 9 | S.R. 317 | | X | 211+67.57 | 212+88.46 | 134.54 | |
| 9 | S.R. 317 | | X | 213+09.91 | 213+67.62 | 64.7 | |
| 10 | S.R. 317 | | X | 217+29.47 | 217+52.80 | 37.5 | |
| 12 | S.R. 317 | | X | 238+61.32 | 239+31.82 | 75.7 | |
| 12 | S.R. 317 | X | | 237+96.89 | 238+81.91 | 88.18 | |
| 14 | S.R. 321 N | X | | 278+49.66 | 279+35.79 | 93.74 | |
| 14 | S.R. 321 N | | X | 278+49.66 | 278+88.38 | 38.4 | |
| 13 | S.R. 321 N | | X | 284+41.59 | 284+65.37 | 27.26 | |
| TOTALS | | | | | | 1092.14 | |

## REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK

| PAY ITEM | TRACT NO. | DESCRIPTION |
|---|---|---|
| 202-06.01 | 27 | HOUSE |
| 202-06.02 | 41 | HOUSE |
| 202-06.03 | 44 | BARN |

NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE REMOVALS.

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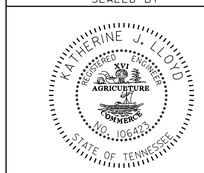


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 7 OF 8

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2X |

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

## ESTIMATED GRADING QUANTITIES

| LOCATION | ROAD & DRAINAGE EXC. (UNCL.) | | BORROW EXCAVATION | | | | EXCESS EXC. | |
|---|---|---|---|---|---|---|---|---|
| | COMMON - C.Y. | TOP SOIL | UNCL. - C.Y. | GRADED SOLID ROCK (1) | MINERAL AGG. (SIZE 57) | COMPACTED CLAY | WASTE C.Y. | EMB. C.Y. |
| | C.Y. | | | | | | | |
| S.R. 317 | 177785 | 24575 | | 92279 | | | 91196 | 56958 |
| PATTONTOWN ROAD | 202 | 160 | 375 | | | | | 558 |
| UNNAMED STREET | 669 | 140 | | | | | 526 | 32 |
| BRANSTON ROAD | 104 | | 570 | | | | | 674 |
| LaCOLLINA WAY | 350 | 75 | | | | | 289 | 3 |
| PINE CIRCLE | 11557 | 472 | | | | | | 66 |
| LITTLE DEBBIE PKWY. | 589 | 798 | 2251 | | | | | 2786 |
| SWINYAR DRIVE | 167 | | | | | | 138 | 1 |
| S.R. 321 NORTH | 3017 | | | | | | 2419 | 95 |
| S.R. 321 SOUTH | 2551 | 635 | | | | | 1914 | 212 |
| DRIVEWAYS | 28797 | | | | | | 21389 | 2610 |
| SINKHOLE | 191 | | | 103 | 56 | 64 | | |
| **TOTALS** | **225979** | **26855** | **3196** | **92382** | **56** | **64** | **117871** | **63995** |

(1) GRADED SOLID ROCK, (ITEM 203-02.01) & MINERAL AGG (SIZE 57), (ITEM 303-10.01) ARE MEASURED AND PAID FOR PER TON. CY VOLUMES SHOWN FOR GRADING PURPOSES ONLY.

## PAVEMENT QUANTITIES

| LOCATION | PAY ITEMS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 303-01 (TON) | 307-01.08 (TON) | 307-02.01 (TON) | 307-02.02 (TON) | 307-02.03 (TON) | 307-02.08 (TON) | 402-01 (TON) | 402-02 (TON) | 403-01 (TON) | 411-01.07 (TON) | 411-01.10 (TON) | 411-02.10 (TON) |
| SR 317 | 49167.05 | | 17205.79 | 437.62 | 8685.72 | 11271.73 | 151.00 | 598.00 | 31.00 | | | 6609.16 |
| SR 321 NORTH | 2821.70 | | 995.67 | | | 522.74 | 7.00 | 28.00 | 2.00 | | 307.19 | |
| SR 321 SOUTH | 2468.48 | | 865.26 | | | 453.58 | 6.00 | 24.00 | 2.00 | | 265.21 | |
| PATTONTOWN RD. | 379.61 | 105.77 | | | | | 1.00 | 1.00 | 1.00 | | 30.53 | |
| UNNAMED ST. | 481.11 | 75.26 | | | | | 2.00 | 4.00 | 1.00 | | 43.88 | |
| BRANSTON RD. | 382.81 | 65.73 | | | | | 1.00 | 1.00 | 1.00 | | 38.54 | |
| LaCOLLINA WAY | 127.89 | 34.58 | | | | | 1.00 | 1.00 | 1.00 | | 11.45 | |
| PINE CIRCLE | 633.36 | 109.84 | | | | | 2.00 | 6.00 | 1.00 | | 64.87 | |
| LITTLE DEBBIE PKWY. | 3187.10 | | 664.47 | | | 400.70 | 7.00 | 3.00 | 2.00 | 85.28 | | 232.78 |
| SWINYAR DR. | 99.47 | 18.31 | | | | | 1.00 | 1.00 | 1.00 | | 11.45 | |
| DRIVEWAYS | 2648.00 | 402.00 | | | | | | | | | 768.00 | |
| MAINTENANCE OF TRAFFIC | 5661.00 | | | | | | | | | | | |
| **TOTALS** | **68058** | **811** | **19731** | **438** | **8686** | **12649** | **179** | **667** | **43** | **85** | **1541** | **6842** |

## ESTIMATED TREE QUANTITIES

| ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|
| 802-11.02 | ACER RUBRUM (RED MAPLE 2-5FT CNTNR GRWN) | 9 | EACH |
| 802-11.12 | CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN) | 8 | EACH |
| 802-11.26 | PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN) | 8 | EACH |
| 802-12.40 | SALIX NIGRA (BLACK WILLOW SEEDLING B.R.) | 53 | EACH |
| | | | |
| **TOTAL** | | **78** | |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TABULATED QUANTITIES

SHEET 8 OF 8

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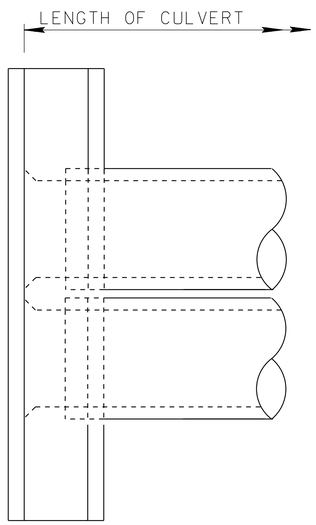
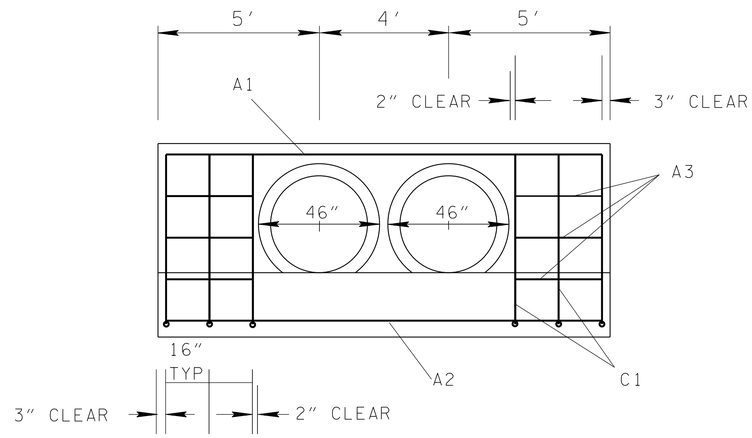
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 2Y |
| | | | |
| | | | |
| | | | |

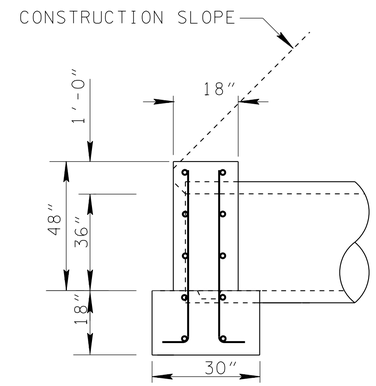
NOTE: ALL BARS ARE #4.



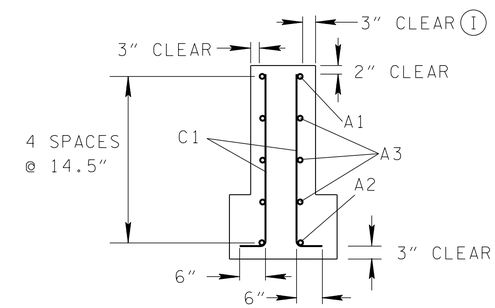

PLAN




FRONT ELEVATION




SIDE ELEVATION




REINFORCING DIAGRAM

# STRAIGHT TYPE CONCRETE ENDWALL

| BILL OF STEEL | | | | |
|---|---|---|---|---|
| STRAIGHT ENDWALL | | | | |
| | 32" PIPE | | | |
| BAR | a | b | LENGTH | NUMBER |
| A1 | 162 | 0 | 162 | 2 |
| A2 | 162 | 0 | 162 | 2 |
| C1 | 57 | 6 | 65 | 12 |
| A3 | 32 | 0 | 32 | 12 |
| | | | | |
| | | TOTAL | 1812 in | |
| | | LB | 100 | |

REINFORCING STEEL LEGEND

a BAR A

b a BAR C

NOTES

(A) CONCRETE ENDWALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION, SECTION 611, AND/OR SPECIAL PROVISIONS.

(B) PRECASTING IS ALLOWED.

| ESTIMATED QUANTITES | |
|---|---|
| CONCRETE 611-07.01 | 50 CY |
| STEEL 611-07.02 | 100 LB |

**UNOFFICIAL SET**

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL
ENDWALL
NO. 17

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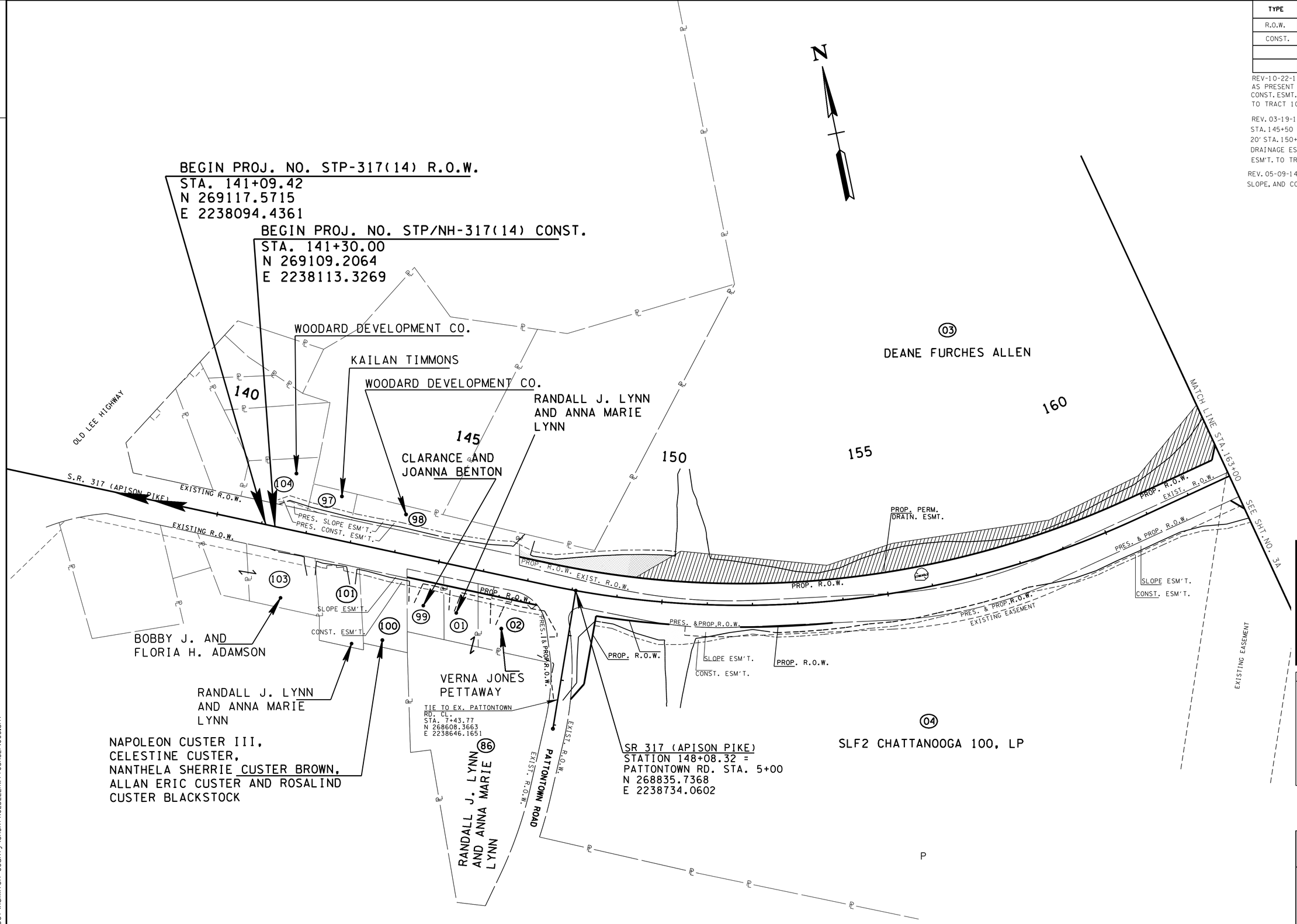
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3 |
| CONST. | 2014 | STP/NH-317(14) | 3 |
| | | | |
| | | | |

REV-10-22-12: INDICATE SLOPE AND CONST. ESMT. AS PRESENT FOR TRACTS 98 & 104. ADJUSTED CONST. ESMT. TO TRACT 101. ADDED CONST. ESMT. TO TRACT 103.

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50 RT., WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT., ADJUSTED PERMANENT DRAINAGE ESM'T., AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNERS' REQUEST.

REV. 05-09-14: ADJUSTED PERMANENT DRAINAGE, SLOPE, AND CONSTRUCTION EASEMENTS ON TRACT 3.

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COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPERTY MAP

STA. 141+30 TO STA. 163+00

SCALE: 1"=100'

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

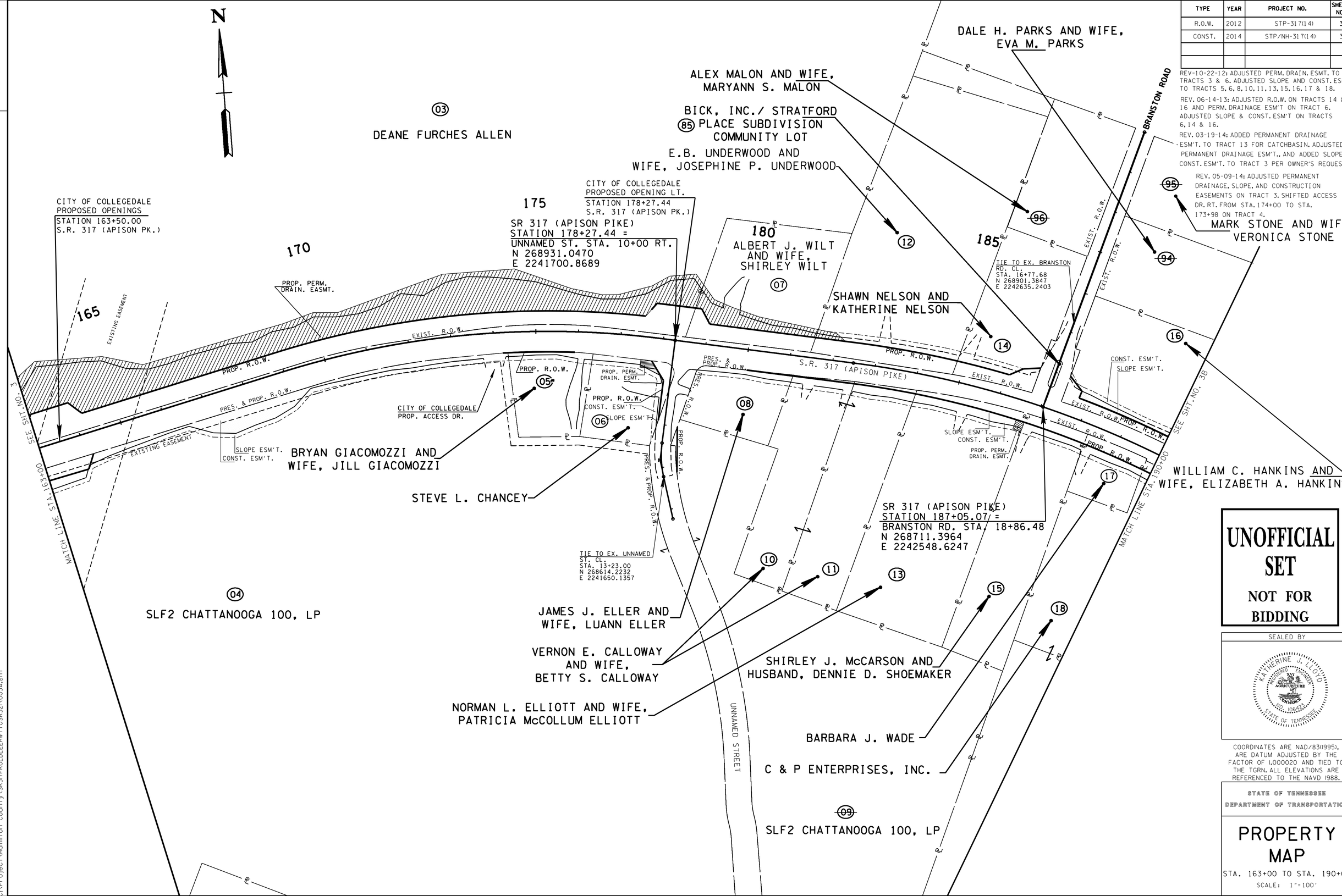
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3A |
| CONST. | 2014 | STP/NH-317(14) | 3A |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT. TO TRACTS 3 & 6. ADJUSTED SLOPE AND CONST. ESMT TO TRACTS 5, 6, 8, 10, 11, 13, 15, 16, 17 & 18.

REV. 06-14-13: ADJUSTED R.O.W. ON TRACTS 14 & 16 AND PERM. DRAINAGE ESM'T ON TRACT 6. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 6, 14 & 16.

REV. 03-19-14: ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 13 FOR CATCHBASIN. ADJUSTED PERMANENT DRAINAGE ESM'T., AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERMANENT DRAINAGE, SLOPE, AND CONSTRUCTION EASEMENTS ON TRACT 3. SHIFTED ACCESS DR. RT. FROM STA. 174+00 TO STA. 173+98 ON TRACT 4.




**UNOFFICIAL SET**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPERTY MAP

STA. 163+00 TO STA. 190+00

SCALE: 1"=100'

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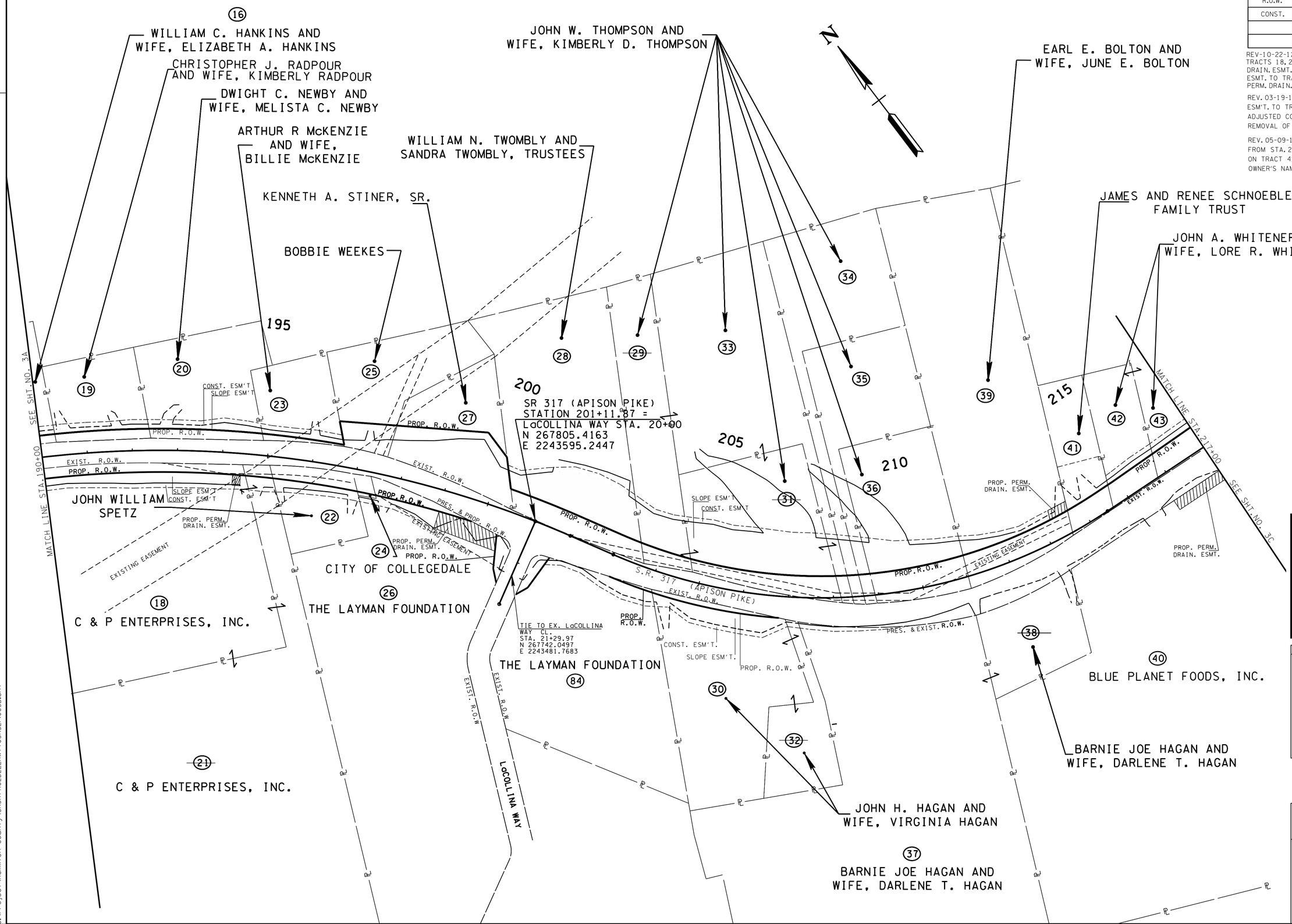
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3B |
| CONST. | 2014 | STP/NH-317(14) | 3B |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED SLOPE & CONST. ESMT. TO TRACTS 18, 21, 22, 24 & 26. ELIMINATED PERM. DRAIN. ESMT. TO TRACT 84. ADDED PERM. DRAIN. ESMT. TO TRACT 39. CHANGED PROP. R.O.W. TO PERM. DRAIN. ESMT. TO TRACT 40.

REV. 03-19-14: ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 18 FOR CATCHBASIN AND ADJUSTED CONST. ESM'T. TO TRACT 41 FOR REMOVAL OF HOUSE.

REV. 05-09-14: SHIFTED PRIVATE DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 ON TRACT 41. CORRECTED THE PROPERTY OWNER'S NAME ON TRACT 42.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPERTY MAP

STA. 190+00 TO STA. 217+00

SCALE: 1"=100'

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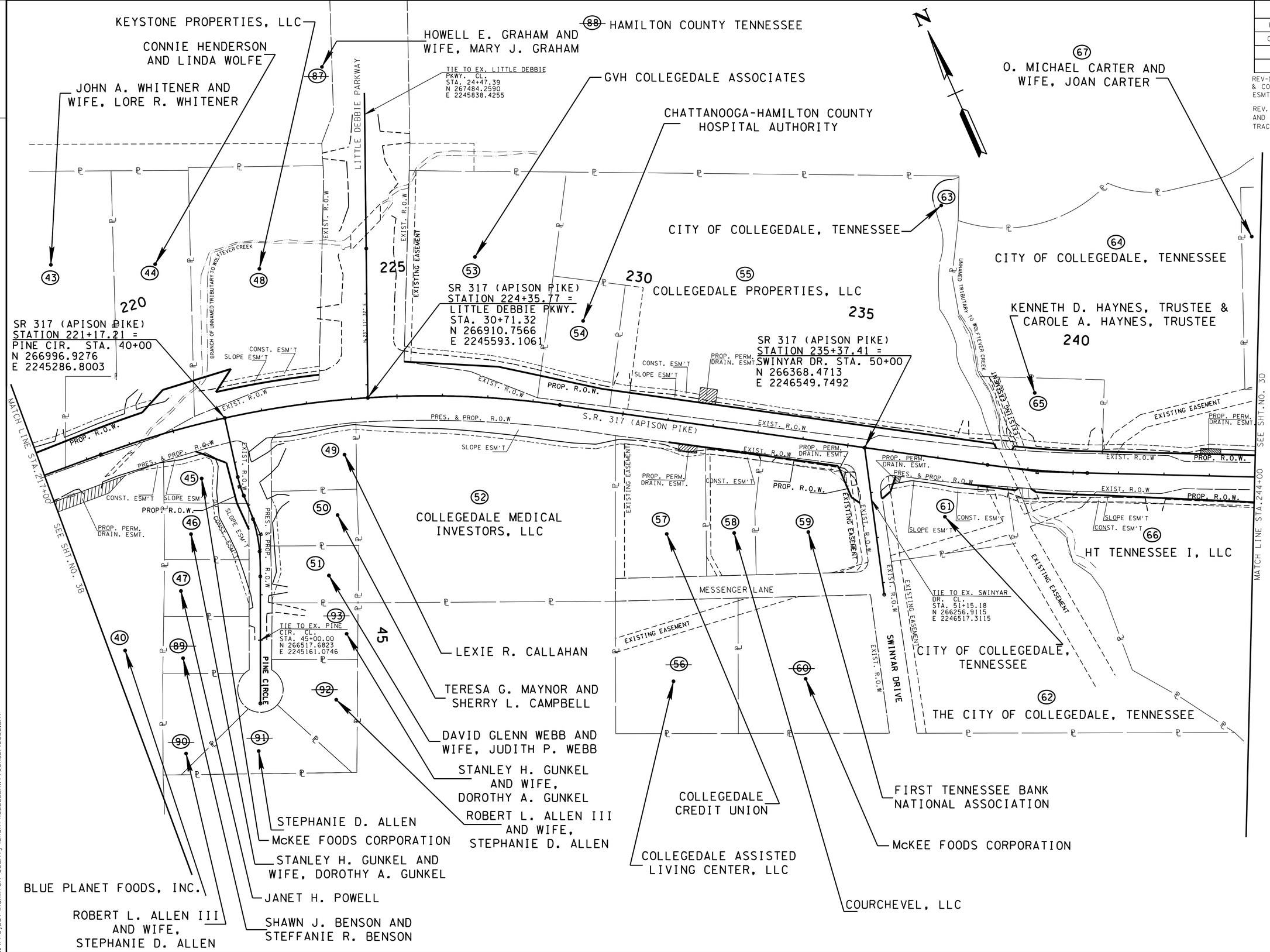
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3C |
| CONST. | 2014 | STP/NH-317(14) | 3C |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT., SLOPE & CONST. ESMT. TO TRACT 57. ADJUSTED CONST. ESMT. TO TRACT 58.

REV. 06-14-13: REMOVED PERM. DRAINAGE ESM'T AND ADJUSTED R.O.W., SLOPE & CONST. ESM'T ON TRACT 59.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPERTY MAP

STA. 217+00 TO STA. 244+00
SCALE: 1"=100'

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

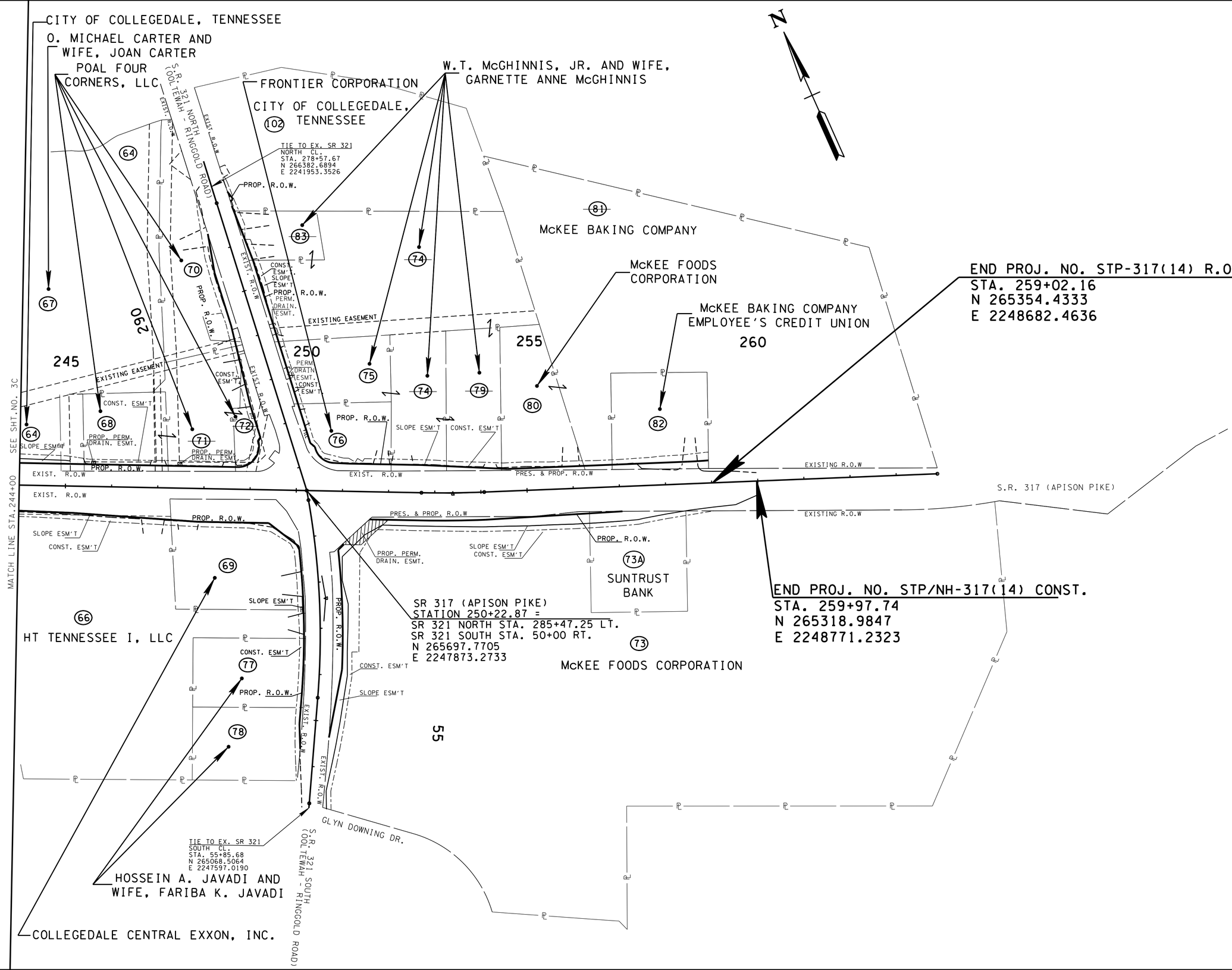
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3D |
| CONST. | 2014 | STP/NH-317(14) | 3D |
| | | | |
| | | | |

REV-10-22-12: ADDED PROP. R.O.W. TO TRACTS 78, 80, 81 & 82. ADDED SLOPE ESMT. TO TRACTS 80, 81 & 82. ADDED CONST. ESMT. TO TRACTS 81 & 82. ADJUSTED CONST. ESMT. TO TRACT 80. PROP. R.O.W. TO TRACTS 70, 71, 72, 73, 74, 76, 77 & 79. PERM. DRAIN. ESMT. TO TRACT 73. SLOPE & CONST. ESMT. TO TRACTS 70, 71, 72, 73, 74, 76, 77, 78 & 79. END PROJECT STATION.

REV. 06-14-13: ADJUSTED R.O.W. ON TRACTS 74, 79, 80, 81 & 82. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 70, 72, 73, 74, 79, 80, 81, 82 AND ALSO ADJUSTED CONST. ESM'T ON TRACT 71. ADJUSTED R.O.W. END PROJECT LIMIT STATION.

REV. 03-19-14: ADDED TRACT 73A FOR SUNTRUST BANK AND ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 73. ALSO ADJUSTED PROP. R.O.W., SLOPE & CONST ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.

REV. 05-09-14: ADJUSTED CONSTRUCTION EASEMENT FOR TEMPORARY DIVERSION CHANNEL ON TRACT 73.

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AGRICULTURE & COMMERCE
NO. 106422
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPERTY MAP

STA. 244+00 TO STA. 259+97

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3E |
| CONST. | 2014 | STP/NH-317(14) | 3E |

# 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. |
| 01 | RANDALL J. LYNN AND ANNA MARIE LYNN | 140A | 026.01 | 4728 | 848 | | 3.091 | 3.091 | | 1424 S.F. | 1424 S.F. | | 3.058 | | 735 | 771 |
| 02 | VERNA JONES PETTAWAY | 140A | 027.00 | 9146 | 116 | | 0.471 | 0.471 | | 2302 S.F. | 2302 S.F. | | 0.418 | | 1365 | 1446 |
| 03 | DEANE FURCHES ALLEN | 140 | 160.00 | 2721 | 562 | 156.280 | | 156.280 | 2.976 | | 2.976 | 153.304 | | 4.312 AC | 0.205 AC | 3503 |
| 04 | SLF2 CHATTANOOGA 100, LP | 140 | 160.07 | 8820 | 672 | | 100.482 | 100.482 | | 0.301 | 0.301 | | 100.181 | | 0.914 AC | 0.553 AC |
| 05 | BRYAN GIACOMOZZI AND WIFE, JILL GIACOMOZZI | 140 | 160.02 | 6099 | 67 | | 0.786 | 0.786 | | 188 S.F. | 188 S.F. | | 0.782 | | 1930 | 1956 |
| 06 | STEVE L. CHANCEY | 140 | 160.03 | 5093 | 517 | | 0.820 | 0.820 | | 2451 S.F. | 2451 S.F. | | 0.764 | 587 | 2119 | 2944 |
| 07 | ALBERT J. WILT AND WIFE SHIRLEY WILT | 140 | 160.06 | 3908 | 424 | 1.952 | | 1.952 | 0.270 | | 0.270 | 1.682 | | 0.238 AC | | |
| 08 | JAMES J. ELLER AND WIFE, LUANN ELLER | 140 | 160.04 | 4717 | 731 | | 0.770 | 0.770 | | 117 S.F. | 117 S.F. | | 0.767 | | 2714 | 2218 |
| ~~09~~ | ~~SLF2 CHATTANOOGA 100, LP~~ | ~~140~~ | ~~160.07~~ | ~~8820~~ | ~~672~~ | | | | | | | | | | | |
| 10 | VERNON E. CALLOWAY AND WIFE, BETTY S. CALLOWAY | 140 | 161.00 | 1519 | 226 | | 1.470 | 1.470 | | 470 S.F. | 470 S.F. | | 1.459 | | 2408 | 1440 |
| | | | | 4631 | 8 | | | | | | | | | | | |
| 11 | VERNON E. CALLOWAY AND WIFE, BETTY S. CALLOWAY | 140 | 162.00 | 2041 | 577 | | 1.740 | 1.740 | | 929 S.F. | 929 S.F. | | 1.719 | | 2865 | 1455 |
| 12 | E.B. UNDERWOOD AND WIFE, JOSEPHINE P. UNDERWOOD | 140 | 163.00 | 1699 | 41 | 5.100 | | 5.100 | 0.292 | | 0.292 | 4.808 | | 985 | 3123 | 2931 |
| | | | | 1759 | 562 | | | | | | | | | | | |
| 13 | NORMAN L. ELLIOTT AND WIFE, PATRICIA McCOLLUM ELLIOTT | 140 | 162.01 | 2421 | 782 | | 3.000 | 3.000 | | 4251 S.F. | 4251 S.F. | | 2.902 | 462 | 0.108 AC | 2485 |
| 14 | SHAWN NELSON AND KATHERINE NELSON | 131N | 028.00 | 6854 | 263 | 1.595 | | 1.595 | 0.157 | | 0.157 | 1.438 | | | 1785 | 1462 |
| | | | | PL 32 | 77-2 | | | | | | | | | | | |
| 15 | SHIRLEY J. McCARSON AND HUSBAND, DENNIE D. SHOEMAKER | 140 | 160.01 | 5475 | 483 | | 2.033 | 2.033 | | 3446 S.F. | 3446 S.F. | | 1.954 | | 2321 | 1493 |
| 16 | WILLIAM C. HANKINS AND WIFE, ELIZABETH A. HANKINS | 140C | 001.00 | 5621 | 807 | 1.846 | | 1.846 | 0.159 | | 0.159 | 1.687 | | | 2835 | 2848 |
| 17 | BARBARA J. WADE | 140 | 164.00 | 3196 | 313 | | 0.481 | 0.481 | | 3994 S.F. | 3994 S.F. | | 0.389 | | 2437 | 1505 |
| 18 | C & P ENTERPRISES, INC. | 140 | 166.01 | 5550 | 179 | | 17.332 | 17.332 | | 0.262 | 0.262 | | 17.070 | 404 | 0.221 AC | 0.106 AC |
| 19 | CHRISTOPER J. RADPOUR AND WIFE KIMBERLY RADPOUR | 140 | 165.01 | 9343 | 40 | 0.892 | | 0.892 | 0.102 | | 0.102 | 0.790 | | | 2064 | 2092 |
| 20 | DWIGHT C. NEWBY AND WIFE, MELISTA C. NEWBY | 140 | 165.00 | 3474 | 328 | 1.417 | | 1.417 | 0.116 | | 0.116 | 1.301 | | | 3071 | 2519 |
| ~~21~~ | ~~C & P ENTERPRISES, INC.~~ | ~~140~~ | ~~166.00~~ | ~~4487~~ | ~~969~~ | | | | | | | | | | | |
| 22 | JOHN WILLIAM SPETZ | 140 | 167.00 | 2849 | 95 | | 0.706 | 0.706 | | 0.147 | 0.147 | | 0.559 | | 2708 | 1864 |
| 23 | ARTHUR R McKENZIE AND WIFE, BILLIE McKENZIE | 140 | 168.00 | 1819 | 333 | 0.729 | | 0.729 | 1540 S.F. | | 1540 S.F. | 0.694 | | | 1989 | 1832 |
| 24 | CITY OF COLLEGEDALE | 140 | 160.09 | 9357 | 811 | | 1848 S.F. | 1848 S.F. | | 1542 S.F. | 1542 S.F. | | 306 S.F. | | 307 | |
| 25 | BOBBIE WEEKES | 140 | 169.00 | 7113 | 339 | 1.268 | | 1.268 | 0.160 | | 0.160 | 1.108 | | | | |
| 26 | THE LAYMAN FOUNDATION | 140 | 160.08 | 6717 | 587 | | 7.971 | 7.971 | | 0.160 | 0.160 | | 7.811 | 0.130 AC | 2840 | 1914 |
| 27 | KENNETH A. STINER, SR. | 140 | 170.00 | 9500 | 991 | 1.261 | | 1.261 | 0.660 | | 0.660 | 0.601 | | | | |
| | | | | PB 37 | 346 | | | | | | | | | | | |
| 28 | WILLIAM N. TWOMBLY AND SANDRA TWOMBLY, TRUSTEES | 140 | 171.03 | 8431 | 994 | 3.308 | | 3.308 | 0.320 | | 0.320 | 2.988 | | | 0.521 AC | 2998 |
| | | | | PB 37 | 346 | | | | | | | | | | | |
| ~~29~~ | ~~JOHN W. THOMPSON AND WIFE, KIMBERLY D. THOMPSON~~ | ~~140~~ | ~~171.02~~ | ~~4596~~ | ~~539~~ | | | | | | | | | | | |
| 30 | JOHN H. HAGAN AND WIFE, VIRGINIA HAGAN | 140 | 172.02 | 3649 | 887 | | 3.269 | 3.269 | | 2602 S.F. | 2602 S.F. | | 3.209 | | 0.189 AC | 3415 |
| | | | | PB 47 | 166 | | | | | | | | | | | |
| ~~31~~ | ~~JOHN W. THOMPSON AND WIFE, KIMBERLY D. THOMPSON~~ | ~~140C~~ | ~~001.00~~ | ~~4596~~ | ~~539~~ | | | | | | | | | | | |
| ~~32~~ | ~~JOHN H. HAGAN AND WIFE, VIRGINIA HAGAN~~ | ~~140~~ | ~~172.03~~ | ~~3649~~ | ~~887~~ | | | | | | | | | | | |
| | | | | PB 47 | 166 | | | | | | | | | | | |
| 33 | JOHN W. THOMPSON AND WIFE, KIMBERLY D. THOMPSON | 140c | 002.00 | 4596 | 539 | 6.630 | 820 S.F. | 6.649 | 0.404 | 820 S.F. | 0.423 | 6.226 | | | 0.872 AC | 0.106 AC |
| | | | | PB 33 | 358 | | | | | | | | | | | |
| 34 | JOHN W. THOMPSON AND WIFE, KIMBERLY D. THOMPSON | 140c | 003.00 | 4596 | 539 | 1.900 | 431 S.F. | 1.910 | 1220 S.F. | 431 S.F. | 1651 S.F. | 1.872 | | | 2009 | 266 |
| | | | | PB 33 | 358 | | | | | | | | | | | |
| 35 | JOHN W. THOMPSON AND WIFE, KIMBERLY D. THOMPSON | 140c | 004.00 | 4596 | 539 | 1.400 | 470 S.F. | 1.411 | 1221 S.F. | 470 S.F. | 1691 S.F. | 1.372 | | | 1899 | 268 |
| | | | | PB 33 | 358 | | | | | | | | | | | |
| 36 | JOHN W. THOMPSON AND WIFE, KIMBERLY D. THOMPSON | 140c | 005.00 | 4596 | 539 | 1.643 | 0.114 | 1.757 | 0.232 | 0.114 | 0.346 | 1.411 | | | 0.247 AC | 2166 |
| | | | | PB 33 | 358 | | | | | | | | | | | |
| 37 | BARNIE JOE HAGAN AND WIFE, DARLENE T. HAGAN | 140 | 172.00 | 1370 | 401 | | 9.948 | 9.948 | | | | | 9.948 | | 201 | 1750 |
| ~~38~~ | ~~BARNIE JOE HAGAN AND WIFE, DARLENE T. HAGAN~~ | ~~140~~ | ~~176.00~~ | ~~2184~~ | ~~463~~ | | ~~0.970~~ | ~~0.970~~ | | | | | ~~0.970~~ | | | |

REV-10-22-12: COMBINED TRACT 80 WITH TRACT 1, TRACT 9 WITH TRACT 4, TRACT 21 WITH TRACT 18, TRACT 32 WITH TRACT 30, TRACTS 29 & 31 WITH TRACT 33.

REV. 06-14-13: ADJUSTED PERM. DRNG. ESM'T ON TRACT 6 AND PROP. R.O.W. ON TRACT 14 & 16. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 6, 14 & 16.

REV. 03-19-14: ADJUSTED PERM. DRNG. ESM'T., ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED PERM. DRNG. ESM'T. AND ADJUSTED SLOPE & CONST. ESM'T. TO TRACTS 13 & 18 FOR FOR CATCHBASINS.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3F |
| CONST. | 2014 | STP/NH-317(14) | 3F |
| | | | |
| | | | |

# 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. |
| 39 | EARL E. BOLTON AND WIFE, JUNE E. BOLTON | 140 | 177.00 | 3716 | 971 | 4.736 | 0.105 | 4.841 | 0.277 | 0.105 | 0.382 | 4.459 | | 905 | 3293 | 2092 |
| 40 | BLUE PLANET FOODS, INC. | 140 | 180.00 | 7188 | 580 | 15.581 | | 15.581 | | | | 15.581 | | 0.145 AC | 10 | 329 |
| 41 | JAMES AND RENEE SCHNOEBLEN FAMILY TRUST | 140F | 009.00 | 6125 | 876 | 0.730 | 395 S.F. | 0.739 | 0.116 | 395 S.F. | 0.125 | 0.614 | | | 942 | 0.169 AC |
| 42 | JOHN A. WHITENER AND WIFE, LORE R. WHITENER | 140F | 010.00 | 2459 | 358 | 0.718 | 344 S.F. | 0.726 | 0.134 | 344 S.F. | 0.142 | 0.584 | | | 1359 | 1208 |
| 43 | JOHN A. WHITENER AND WIFE, LORE R. WHITENER | 140F | 005.00 | 2459 | 358 | 5.807 | 573 S.F. | 5.820 | 0.205 | 573 S.F. | 0.218 | 5.602 | | | 1951 | 1709 |
| 44 | CONNIE HENDERSON AND LINDA WOLFE | 140F | 002.00 | 4548 | 335 | 2.730 | 883 S.F. | 2.750 | 0.454 | 883 S.F. | 0.474 | 2.276 | | | 1831 | 2013 |
| 45 | McKEE FOODS CORPORATION | 140E | 001.00 | 5132 | 749 | | 0.507 | 0.507 | | 0.160 | 0.160 | | 0.347 | | 3475 | 1996 |
| | | | | 2448 | 701 | | | | | | | | | | | |
| 46 | STANLEY H. GUNKEL AND WIFE, DOROTHY A. GUNKEL | 140E | 002.00 | 4954 | 077 | | 0.533 | 0.533 | | 749 S.F. | 749 S.F. | | 0.516 | | 0.120 AC | 1348 |
| 47 | JANET H. POWELL | 140E | 003.00 | 9440 | 450 | | 0.537 | 0.537 | | | | | 0.537 | | 681 | 861 |
| 48 | KEYSTONE PROPERTIES, LLC | 140 | 181.01 | 8763 | 8 | 3.304 | | 3.304 | 0.180 | | 0.180 | 3.124 | | | 1841 | 2214 |
| 49 | LEXIE R. CALLAHAN | 140E | 011.00 | 2662 | 201 | | 0.589 | 0.589 | | | | | 0.589 | | 1402 | 1875 |
| 50 | TERESA G. MAYNOR AND SHERRY L. CAMPBELL | 140E | 010.00 | 5343 | 508 | | 0.536 | 0.536 | | | | | 0.536 | | 369 | 954 |
| 51 | DAVID GLENN WEBB AND WIFE, JUDITH P. WEBB | 140E | 009.00 | 6508 | 43 | | 0.554 | 0.554 | | | | | 0.554 | | 745 | 1068 |
| 52 | COLLEGEDALE MEDICAL INVESTORS, LLC | 140 | 188.01 | 5679 | 102 | | 5.106 | 5.106 | | | | | 5.106 | | 0.275 AC | 0.131 AC |
| 53 | GVH COLLEGEDALE ASSOCIATES | 140 | 187.17 | 8015 | 435 | 3.346 | | 3.346 | 0.144 | | 0.144 | 3.202 | | | 0.112 AC | 3051 |
| 54 | CHATTANOOGA - HAMILTON COUNTY HOSPITAL AUTHORITY | 140 | 187.15 | 5834 | 226 | 0.994 | | 0.994 | 0.156 | | 0.156 | 0.838 | | | 1376 | 1609 |
| 55 | COLLEGEDALE PROPERTIES, LLC | 140 | 187.01 | 4877 | 721 | 10.186 | | 10.186 | 0.534 | | 0.534 | 9.652 | | 1273 | 0.106 AC | 0.185 AC |
| ~~56~~ | ~~COLLEGEDALE ASSISTED LIVING CENTER, LLC~~ | ~~140~~ | ~~188.10~~ | ~~5041~~ | ~~615~~ | | ~~1.827~~ | ~~1.827~~ | | | | | ~~1.827~~ | | | |
| | | | | 7686 | 17 | | | | | | | | | | | |
| | | | | PB 64 | 9 | | | | | | | | | | | |
| 57 | COLLEGEDALE CREDIT UNION | 140 | 188.13 | 7686 | 19 | | 1.373 | 1.373 | | 55 S.F. | 55 S.F. | | 1.372 | 662 | 1057 | 1916 |
| 58 | COURCHEVEL, LLC | 140 | 188.18 | 8123 | 107 | | 0.709 | 0.709 | | 272 S.F. | 272 S.F. | | 0.703 | | 293 | 1227 |
| 59 | FIRST TENNESSEE BANK NATIONAL ASSOCIATION | 140 | 188.09 | 4214 | 550 | | 1.326 | 1.326 | | 2669 S.F. | 2669 S.F. | | 1.265 | | 389 | 1761 |
| | | | | 7083 | 772 | | | | | | | | | | | |
| ~~60~~ | ~~McKEE FOODS CORPORATION~~ | ~~140~~ | ~~188.02~~ | ~~3735~~ | ~~598~~ | | ~~2.163~~ | ~~2.163~~ | | | | | ~~2.163~~ | | | |
| | | | | 3869 | 502 | | | | | | | | | | | |
| 61 | CITY OF COLLEGEDALE, TENNESSEE | 140 | 188.12 | 9487 | 720 | | 1.004 | 1.004 | | 1266 S.F. | 1266 S.F. | | 0.975 | 202 | 1903 | 2598 |
| 62 | THE CITY OF COLLEGEDALE, TENNESSEE | 140 | 188.11 | 3782 | 917 | | 4.858 | 4.858 | | 122 S.F. | 122 S.F. | | 4.855 | | 331 | 354 |
| | | | | 3876 | 280 | | | | | | | | | | | |
| 63 | CITY OF COLLEGEDALE, TENNESSEE | 140 | 187.13 | 5511 | 293 | 0.493 | | 0.493 | 291 S.F. | | 291 S.F. | 0.486 | | | 436 | 226 |
| 64 | CITY OF COLLEGEDALE, TENNESSEE | 140 | 187.10 | 8983 | 567 | 7.903 | | 7.903 | 0.119 | | 0.119 | 7.784 | | 534 | 2717 | 4202 |
| 65 | KENNETH D. HAYNES, TRUSTEE & CAROLE A. HAYNES, TRUSTEE | 140 | 187.08 | 8747 | 430 | 0.881 | | 0.881 | 1170 S.F. | | 1170 S.F. | 0.854 | | | 1323 | 2391 |
| 66 | HT TENNESSEE I, LLC | 140 | 188.15 | 8827 | 264 | | 9.218 | 9.218 | | 0.428 | 0.428 | | 8.790 | | 3535 | 0.207 AC |
| 67 | O. MICHAEL CARTER AND WIFE, JOAN CARTER | 140 | 187.11 | 5635 | 601 | 3.623 | | 3.623 | 773 S.F. | | 773 S.F. | 3.605 | | | 273 | 506 |
| 68 | POAL FOUR CORNERS, LLC | 140 | 187.07 | 8352 | 515 | 1.950 | | 1.950 | 0.276 | | 0.276 | 1.674 | | 139 | 595 | 0.139 AC |
| 69 | COLLEGEDALE CENTRAL EXXON, INC. | 140 | 188.08 | 2872 | 522 | | 1.493 | 1.493 | | 0.335 | 0.335 | | 1.158 | | 664 | 4124 |
| | | | | 4795 | 939 | | | | | | | | | | | |
| 70 | POAL FOUR CORNERS, LLC | 140 | 187.06 | 8464 | 458 | 1.208 | | 1.208 | 2486 S.F. | | 2486 S.F. | 1.151 | | | 583 | 3105 |
| ~~71~~ | ~~POAL FOUR CORNERS, LLC~~ | ~~140~~ | ~~187.00~~ | ~~8352~~ | ~~515~~ | | | | | | | | | | | |
| ~~72~~ | ~~POAL FOUR CORNERS, LLC~~ | ~~140~~ | ~~187.09~~ | ~~8352~~ | ~~515~~ | | | | | | | | | | | |
| 73 | McKEE FOODS CORPORATION | 140 | 188.00 | 4466 | 956 | | 37.046 | 37.046 | | 0.212 | 0.212 | | 36.834 | 2274 | 0.314 AC | 0.347 AC |
| 73A | SUNTRUST BANK | 140 | 188 | 9817 | 770 | | 1.05 | 1.05 | | 144 S.F. | 144 S.F. | | 1.047 | | 3047 | 2103 |
| ~~74~~ | ~~W.T. McGHINNIS, JR. AND WIFE, GARNETTE ANNE McGHINNIS~~ | ~~140~~ | ~~200.00~~ | ~~2625~~ | ~~434~~ | | | | | | | | | | | |
| | | | | PB 37 | 129 | | | | | | | | | | | |
| 75 | W.T. McGHINNIS, JR. AND WIFE, GARNETTE ANNE McGHINNIS | 140 | 200.04 | 2625 | 434 | 5.955 | | 5.955 | 0.129 | | 0.129 | 5.826 | | | 795 | 0.150 AC |
| | | | | PB 37 | 129 | | | | | | | | | | | |
| 76 | FRONTIER CORPORATION | 140 | 200.01 | 2702 | 269 | 0.631 | | 0.631 | 4036 S.F. | | 4036 S.F. | 0.538 | | | 394 | 2511 |
| 77 | HOSSEIN A. JAVADI AND WIFE, FARIBA K. JAVADI | 140 | 188.16 | 5089 | 303 | | 0.833 | 0.833 | | 575 S.F. | 575 S.F. | | 0.820 | | | 1523 |
| 78 | HOSSEIN A. JAVADI AND WIFE, FARIBA K. JAVADI | 140 | 188.17 | 5979 | 748 | | 0.849 | 0.849 | | 360 S.F. | 360 S.F. | | 0.841 | | 24 | 1314 |

REV-10-22-12: COMBINED TRACT 74 WITH TRACT 75, TRACT 71 & 72 WITH TRACT 68.

REV.-02-19-13: SHOW CONST. ESM'T AREA FOR TRACTS 49 & 52. ADJUSTED CONST. ESM'T AREA FOR TRACT 57.

REV. 06-14-13: REMOVED PERM. DRNG. ESM'T FROM TRACT 59. ADJUSTED PROP. R.O.W. ON TRACT 59 & 74. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 59, 68, 70, 72, 73 & 74. ADJUSTED CONST. ESM'T ON TRACT 71.

REV. 03-19-14: ADJUSTED CONST. ESM'T. TO TRACT 41 FOR REMOVAL OF HOUSE. ADDED TRACT 73A FOR SUNTRUST BANK AND ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 73. CHANGED PROPERTY OWNER'S NAME ON TRACT 42.

REV. 05-09-14: ADJUSTED CONST. ESM'T. TO TRACT 73 FOR TEMPORARY DIVERSION CHANNEL.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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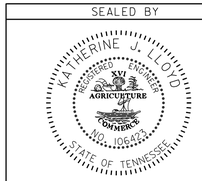


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3G |
| CONST. | 2014 | STP/NH-317(14) | 3G |
| | | | |
| | | | |

# 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. |
| ~~79~~ | ~~W.T. McGHINNIS, JR. AND WIFE, GARNETTE ANNE McGHINNIS~~ | ~~140~~ | ~~200.06~~ | ~~2625~~ | ~~434~~ | | | | | | | | | | | |
| | | | | PB 65 | 89 | | | | | | | | | | | |
| 80 | McKEE FOODS CORPORATION | 140 | 200.03 | 6162 | 913 | 10.108 | | 10.108 | 1603 S.F. | | 1603 S.F. | 10.071 | | | 449 | 2394 |
| | | | | PB 65 | 89 | | | | | | | | | | | |
| ~~81~~ | ~~McKEE BAKING COMPANY~~ | ~~141~~ | ~~006.03~~ | ~~3438~~ | ~~152~~ | | | | | | | | | | | |
| | | | | 3869 | 502 | | | | | | | | | | | |
| 82 | McKEE BAKING COMPANY EMPLOYEE'S CREDIT UNION | 141 | 006.04 | 3492 | 962 | 1.000 | | 1.000 | 2841 S.F. | | 2841 S.F. | 0.935 | | | 55 | 2833 |
| ~~83~~ | ~~W.T. McGHINNIS, JR. AND WIFE, GARNETTE ANNE McGHINNIS~~ | ~~140~~ | ~~200.05~~ | ~~2625~~ | ~~434~~ | | | | | | | | | | | |
| | | | | PB 37 | 129 | | | | | | | | | | | |
| 84 | THE LAYMAN FOUNDATION | 140 | 160.10 | 6717 | 587 | 3.548 | | 3.548 | 2578 S.F. | | 2578 S.F. | 3.489 | | | 3382 | 2600 |
| 85 | BICK, INC./ STRATFORD PLACE SUBDIVISION COMMUNITY LOT | 131N | 029.00 | 2368 | 858 | 1001 S.F. | | 1001 S.F. | 1001 S.F. | | 1001 S.F. | | | | | |
| ~~86~~ | ~~RANDALL J. LYNN AND ANNA MARIE LYNN~~ | ~~140A~~ | ~~028.00~~ | ~~5526~~ | ~~304~~ | | | | | | | | | | | |
| ~~87~~ | ~~HOWELL E. GRAHAM AND WIFE, MARY J. GRAHAM~~ | ~~140~~ | ~~177.01~~ | ~~2038~~ | ~~364~~ | ~~16.270~~ | | ~~16.270~~ | | | | ~~16.270~~ | | | | |
| ~~88~~ | ~~HAMILTON COUNTY TENNESSEE~~ | ~~140~~ | ~~177.03~~ | ~~5987~~ | ~~906~~ | ~~23.893~~ | | ~~23.893~~ | | | | ~~23.893~~ | | | | |
| 89 | DENISE A. MYERS | 140E | 004 | 9071 | 268 | | 0.543 | 0.543 | | | | | 0.543 | | | |
| ~~90~~ | ~~ROBERT L. ALLEN III AND WIFE, STEPHANIE D. ALLEN~~ | ~~140E~~ | ~~005~~ | ~~5141~~ | ~~191~~ | | ~~0.687~~ | ~~0.687~~ | | | | | ~~0.687~~ | | | |
| ~~91~~ | ~~STEPHANIE D. ALLEN~~ | ~~140E~~ | ~~006~~ | ~~7571~~ | ~~619~~ | | ~~0.732~~ | ~~0.732~~ | | | | | ~~0.732~~ | | | |
| ~~92~~ | ~~ROBERT L. ALLEN III AND WIFE, STEPHANIE D. ALLEN~~ | ~~140E~~ | ~~007~~ | ~~5141~~ | ~~191~~ | | ~~0.718~~ | ~~0.718~~ | | | | | ~~0.718~~ | | | |
| 93 | STANLEY H. GUNKEL AND WIFE, DOROTHY A. GUNKEL | 140E | 008 | 4888 | 720 | | 0.542 | 0.542 | | 589 S.F. | 589 S.F. | | 0.528 | | | |
| ~~94~~ | ~~DALE H. PARKS AND WIFE, EVA M. PARKS~~ | ~~140C~~ | ~~002.00~~ | ~~5262~~ | ~~196~~ | ~~1.461~~ | | ~~1.461~~ | | | | ~~1.461~~ | | | | |
| ~~95~~ | ~~MARK STONE AND WIFE, VERONICA STONE~~ | ~~140C~~ | ~~003.00~~ | ~~7860~~ | ~~740~~ | ~~1.473~~ | | ~~1.473~~ | | | | ~~1.473~~ | | | | |
| ~~96~~ | ~~ALEX MALON AND WIFE, MARYANN S. MALON~~ | ~~131N~~ | ~~027.00~~ | ~~3044~~ | ~~133~~ | ~~1.474~~ | | ~~1.474~~ | | | | ~~1.474~~ | | | | |
| 97 | KAILAN TIMMONS | 131O | 018.00 | 9146 | 130 | 0.159 | | 0.159 | | | | 0.159 | | | 700 | 997 |
| * 98 | WOODARD DEVELOPMENT CO. | 131O | 019.00 | 7264 | 539 | 0.462 | | 0.462 | | | | 0.462 | | | | |
| 99 | CLARANCE AND JOANNA BENTON | 140A | 026 | 1442 | 247 | | 0.258 | 0.258 | | 1494 S.F. | 1494 S.F. | | 0.224 | | 568 | 830 |
| 100 | NAPOLEON CUSTER III, CELESTINE CUSTER, NANTHELA SHERRIE CUSTER BROWN, ALLAN ERIC CUSTER AND ROSALIND CUSTER BLACKSTOCK | 140A | 025 | 6045 | 37 | | 0.381 | 0.381 | | | | | 0.381 | | 522 | 1076 |
| 101 | RANDALL J. LYNN AND WIFE, ANNA MARIE LYNN | 140A | 024 | 4741 | 242 | | 0.396 | 0.396 | | | | | 0.396 | | 459 | 725 |
| 102 | CITY OF COLLEGEDALE, TENNESSEE | 140 | 203 | 5341 | 187 | 3.200 | | 3.200 | 82 S.F. | | 82 S.F. | 3.198 | | | 60 | 488 |
| ~~103~~ | ~~BOBBY J. AND FLORIA H. ADAMSON~~ | ~~140A~~ | ~~012.00~~ | ~~2209~~ | ~~457~~ | | ~~0.440~~ | ~~0.440~~ | | | | | ~~0.440~~ | | | |
| | ~~BOBBY J. AND FLORIA H. ADAMSON~~ | ~~140A~~ | ~~012.01~~ | ~~2209~~ | ~~457~~ | | ~~0.246~~ | ~~0.246~~ | | | | | ~~0.246~~ | | | |
| * 104 | WOODARD DEVELOPMENT CO. | 131O-B | 017.00 | 7264 | 547 | 0.344 | | 0.344 | | | | 0.344 | | | | |

REV-10-22-12: COMBINED TRACT 86 WITH TRACT 1, TRACTS 79 & 83 WITH TRACT 75.

REV. 11-28-12: DELETED SLOPE & CONST. ESM'T FOR TRACT 103.

REV. 06-14-13: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T ON TRACTS 79, 80, 81 & 82.

REV. 03-19-14: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.

* NOTE -TRACTS 98 & 104 R.O.W. TO BE ACQUIRED UNDER DESIGN-BUILD PROJECT NO. STP-317(12)

* NOTE -TRACT 91 IS OUT OF PLANS. THIS TRACT IS NOT AFFECTED BY THE R.O.W. ACQUISITION.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 3H |
| CONST. | 2014 | STP/NH-317(14) | 3H |
| | | | |
| | | | |

## 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 IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

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

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

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY 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 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.

## UTILITY NOTES

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

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR 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.

## UTILITY OWNERS

WATER: EASTSIDE UTILITY DISTRICT
P. O. Box 22037
7206 Lee Highway
Chattanooga, TN 37422
Donald R. Stafford, Manager
PH: (423) 892 2890

CATV: COMCAST CABLEVISION
P.O. Box 182249
2030 East Polymer Drive
Chattanooga, TN 37421
Tim Gregory
PH: (706) 252-4185

Telephone: A T & T Bellsouth dba AT & T
300 E. MLK. Blvd.
Chattanooga, TN 37403
Mr. Tim Manley
PH: (423) 752-9144

CENTURY LINK OF
OOLTEWAH COLLEGEDALE
P. O. Box 100
New Tazewell, TN 37825
Mr. Jim Arterburn
PH: (423) 626-6882

Electric: ELECTRIC POWER BOARD OF
CHATTANOOGA
P. O. Box 182255
Chattanooga, TN 37422
David Henderson
PH: (423) 648-3257

TENNESSEE VALLEY AUTHORITY
1101 Market Street, MR 3F
Chattanooga, TN 37402
Ms. Missy Davis
PH: (423) 751-7542
Fax: (424) 751-4621

GAS: PLANTATION PIPELINE CO.
1100 Alderman Drive, Suite 200
Alpharetta, GA 30005
Mr. Blair Northen, Jr.
PH: (770) 751-4109
Fax: (770) 751-4230
Blair_Northen@kindermorgan.com

ATLANTA GAS LIGHT COMPANY
P.O. Box 4569
Atlanta, GA 30302-4569
10 Peachtree Place, 11th Floor
Atlanta, GA 30309
Mr. Ben Massengil
PH: (404) 584-3238
Fax: (404) 584-4187
bmasseng@aglresources.com

EAST TENNESSEE NATURAL GAS,
LLC/SPECTRA ENERGY
555 Mariott Drive, Suite 600
Nashville, TN 37214
Mr. Mike Fletcher
PH: (615) 872-5155

SEWER: CITY OF COLLEGEDALE
P.O. Box 1880
4910 Swinyar Drive
Collegedale, TN 37315
Mayor John Turner
Mr. Ted Rogers, City Manager
PH: (423) 396-3135
Rodney Keeton, Director of Public Works
PH: (423) 468-1935

CITY OF CHATTANOOGA
1250 Market Street, Suite 2100
Chattanooga, TN 37402-2713
100 East 11th Street, Chattanooga, TN 37402
Mr. Gordon Phillips
PH: (423) 643-6191
Fax: (423) 757-0586
Phillips_G@chattanooga.gov

**UNOFFICIAL SET**

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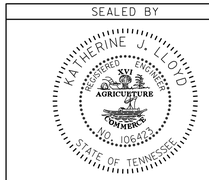


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY & UTILITY NOTES AND UTILITY OWNERS

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 4 |
| CONST. | 2014 | STP/NH-317(14) | 4 |
| | | | |
| | | | |

REV-10-22-12: ADDED NOTE: R.O.W. TO BE ACQUIRED UNDER DESIGN-BUILD PROJECT STP-317(12) FOR TRACTS 98 & 104. INDICATE SLOPE & CONST. ESMT. AS PRESENT FOR TRACTS 98 & 104. ADJUSTED CONST. ESMT. TO TRACT 101. ADDED CONST. ESMT. TO TRACT 103.

REV. 11-28-12: DELETED SLOPE & CONST. ESM'T ON TRACT 103.

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50.00 RT., WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT., ADJUSTED PERMANENT DRAINAGE ESM'T., AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNERS' REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.

NOTE: TRACTS 98 & 104 R.O.W. TO BE ACQUIRED UNDER DESIGN-BUILD PROJECT NO. STP-317(12)

NOTE: REMOVAL OF EXISTING PAVEMENT STRIPING WEST OF OLD LEE HIGHWAY SHALL BE COMPLETED UNDER PHASE 5 OF TRAFFIC CONTROL PLANS.

BEGIN PROJ. NO. STP-317(14) R.O.W.
STA. 141+09.34
N 269117.5715
E 2238094.4361

SR 317 (APISON PIKE)
STATION 148+08.32 =
PATTONTOWN RD. STA. 5+00
N 268835.7388
E 2238734.0602

BEGIN PROJ. NO. STP/NH-317(14) CONST.
STA. 141+30.00
N 269109.2064
E 2238113.3269

TIE TO EX. PATTONTOWN RD. CL.
STA. 7+43.77
N 268608.3663
E 2238646.1651

S.R. 317 (APISON PIKE) S 66° 06' 56" E

140 — FIELDS CHAPEL AME ZION CHURCH

145 — GROUND OBSCURED

150

104 — WOODARD DEVELOPMENT CO. — PRES. CONST. ESMT. — PRES. SLOPE ESMT.

97 — KAILAN TIMMONS

98 — WOODARD DEVELOPMENT CO.

HAMILTON COUNTY

TRAV - CP S145
REBAR W/CAP
N 268923.6959
E 2238587.0757
EL. 907.77
SA MH A-22
TOP-907.17
INV-902.00

EX. 18" PIPE TO BE REMOVED

103 — THEODORE R., JR. & VIRGINIA E. McGHEE

BOBBY J. & FLORIA H. ADAMSON

CITY OF CHATTANOOGA

WOODARD DEVELOPMENT CO.

101 — RANDALL J. LYNN AND WIFE, ANNA MARIE LYNN

NAPOLEON CUSTER III, CELESTINE CUSTER, NANTHELA SHERRIE CUSTER BROWN, ALLAN ERIC CUSTER AND ROSALIND CUSTER BLACKSTOCK

100 — CLARANCE AND JOANNA BENTON

99 — VERNA JONES PETTAWAY, CITY OF CHATTANOOGA

01 — RANDALL J. LYNN AND ANNA MARIE LYNN

02 — RANDALL J. LYNN AND ANNA MARIE LYNN

86 — RANDALL J. LYNN AND ANNA MARIE LYNN

03 — CITY OF COLLEGEDALE

04

TRAV - CP S146
REBAR W/CAP
N 268722.7904
E 2238971.2182
EL. 930.93

MATCH LINE STA. 151+00 — SEE SH

PATTONTOWN ROAD

SPEED LIMIT 30 MPH

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 141+09 TO STA. 151+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 4A |
| CONST. | 2014 | STP/NH-317(14) | 4A |
| | | | |
| | | | |

REV-10-22-12: ADDED NOTE: R.O.W. TO BE ACQUIRED UNDER DESIGN-BUILD PROJECT STP-317(12) FOR TRACTS 98 & 104. INDICATE SLOPE & CONST. ESMT. AS PRESENT FOR TRACTS 98 & 104. ADJUSTED CONST. ESMT. TO TRACT 101. ADDED CONST. ESMT. TO TRACT 103.

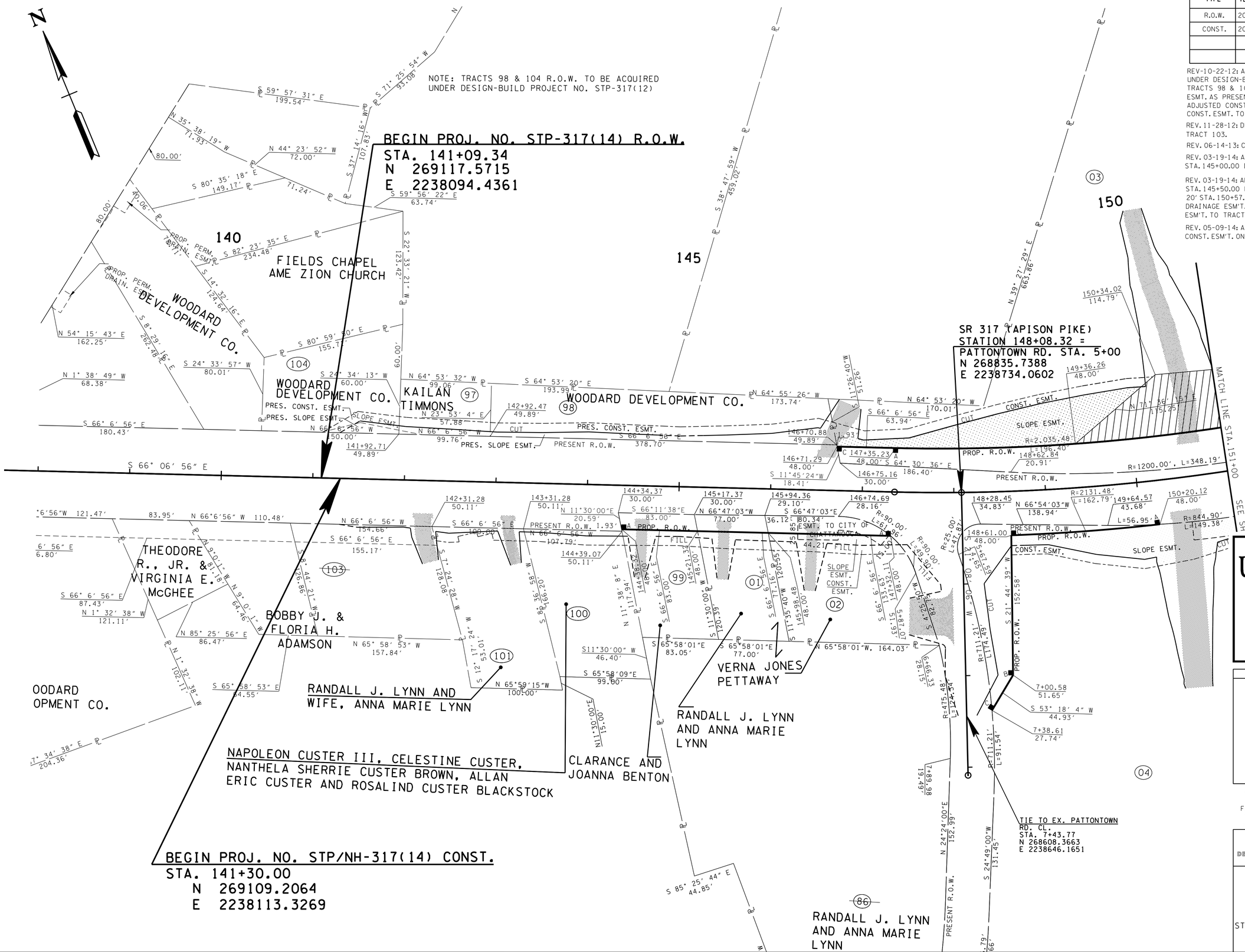
REV. 11-28-12: DELETED SLOPE & CONST. ESM'T ON TRACT 103.

REV. 06-14-13: CORRECTED R.O.W. MARKERS.

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+00.00 DUE TO OWNER'S REQUEST.

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50.00 RT., WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT., ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNERS' REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 141+09 TO STA. 151+00

SCALE: 1"= 50'

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

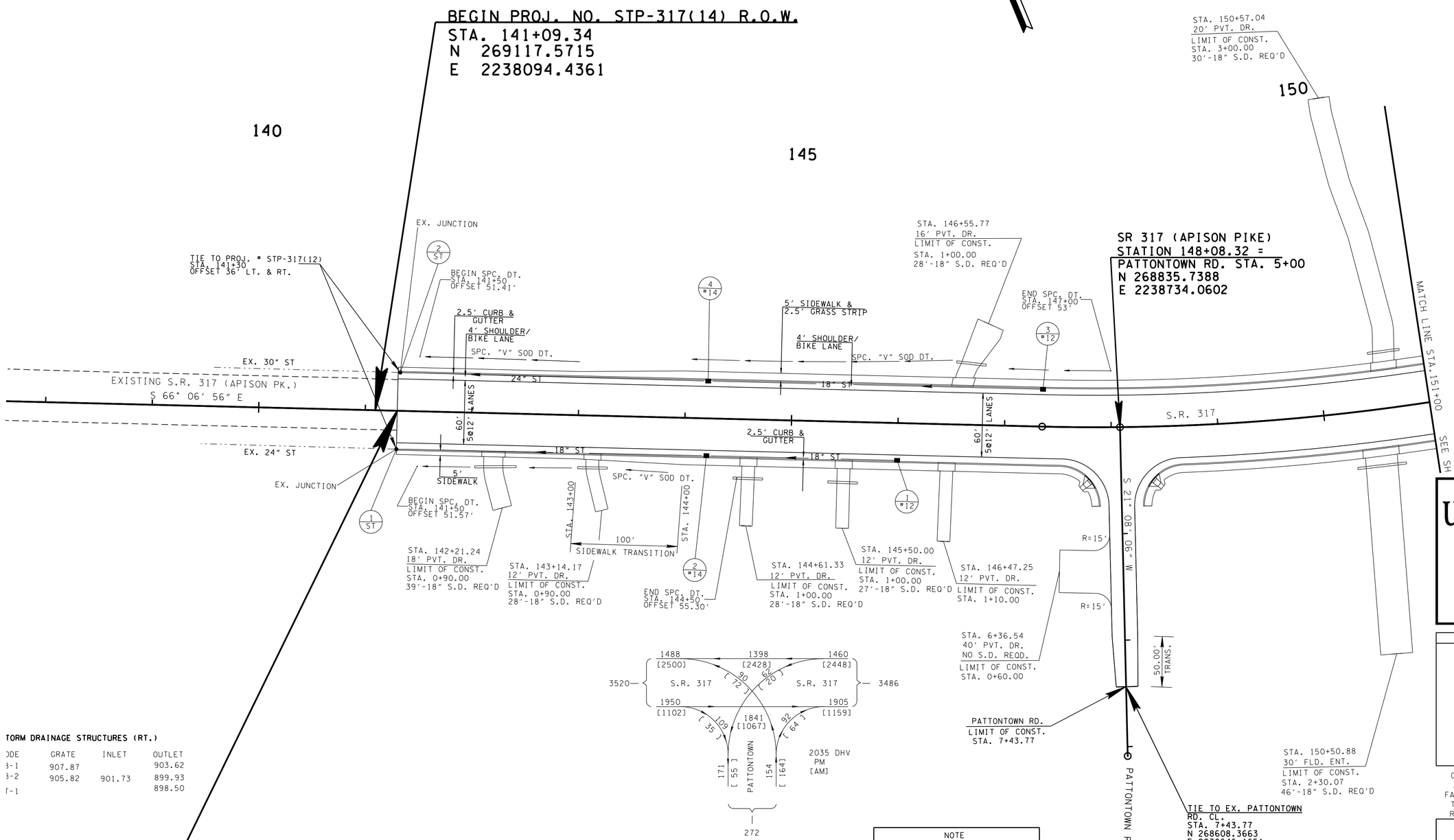
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 4B |
| CONST. | 2014 | STP/NH-317(14) | 4B |
| | | | |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.

REV. 03-19-14: ADDED 12' DRIVEWAY TO STA. 145+50.00 RT. AND WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT. PER OWNERS' REQUEST.

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-3 | 912.10 | | 907.85 |
| CB-4 | 905.82 | 901.72 | 900.66 |
| ST-2 | | | 899.23 |




**TORM DRAINAGE STRUCTURES (RT.)**

| ODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| 3-1 | 907.87 | | 903.62 |
| 3-2 | 905.82 | 901.73 | 899.93 |
| T-1 | | | 898.50 |

BEGIN PROJ. NO. STP/NH-317(14) CONST.
STA. 141+30.00
N 269109.2064
E 2238113.3269

| NOTE |
|---|
| SIDE ROADS TURNING RADIUS ARE 45 FEET EXCEPT WHERE INDICATED |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

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

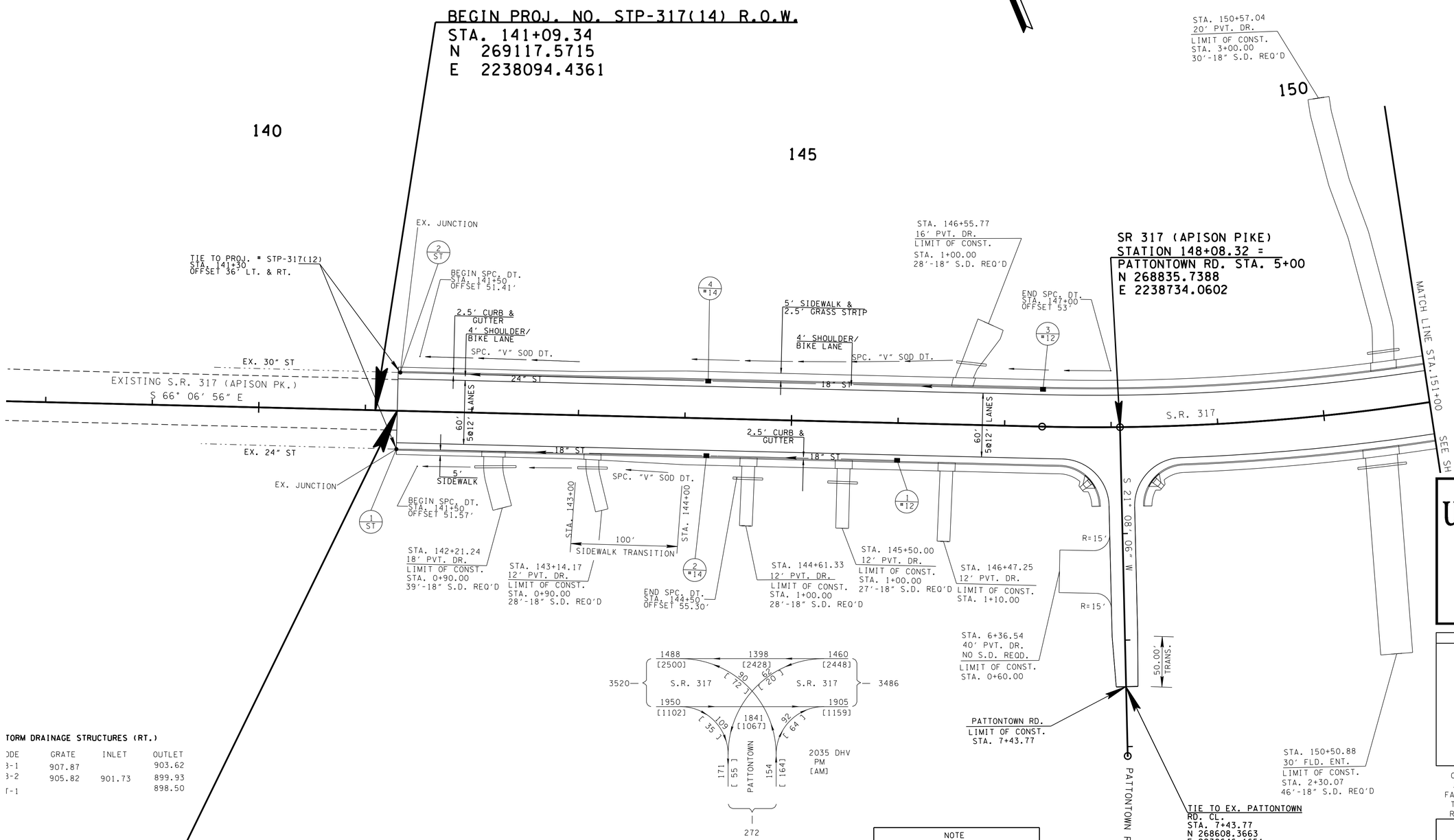
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 4B |
| CONST. | 2014 | STP/NH-317(14) | 4B |
| | | | |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.

REV. 03-19-14: ADDED 12' DRIVEWAY TO STA. 145+50.00 RT. AND WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT. PER OWNERS' REQUEST.

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-3 | 912.10 | | 907.85 |
| CB-4 | 905.82 | 901.72 | 900.66 |
| ST-2 | | | 899.23 |




**TORM DRAINAGE STRUCTURES (RT.)**

| ODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| 3-1 | 907.87 | | 903.62 |
| 3-2 | 905.82 | 901.73 | 899.93 |
| T-1 | | | 898.50 |

BEGIN PROJ. NO. STP/NH-317(14) CONST.
STA. 141+30.00
N 269109.2064
E 2238113.3269

| NOTE |
|---|
| SIDE ROADS TURNING RADIUS ARE 45 FEET EXCEPT WHERE INDICATED |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 4C |
| CONST. | 2014 | STP/NH-317(14) | 4C |

REV. 06-14-13: ADJUSTED DRAINAGE.

## EARTHWORK QUANTITIES AND BALANCE

ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED) : 258,497 C.Y.
- INCLUDES
- COMMON EXC. : 177,785 C.Y.
- 16,535 C.Y. TOPSOIL FROM FILL
- 8,040 C.Y. TOPSOIL FROM CUT
- 28,797 C.Y. DRIVEWAYS
- 7,943 C.Y. EPSC MEASURES
- 191 C.Y. SINKHOLE
- SIDE ROADS EXC. : 19,206 C.Y.

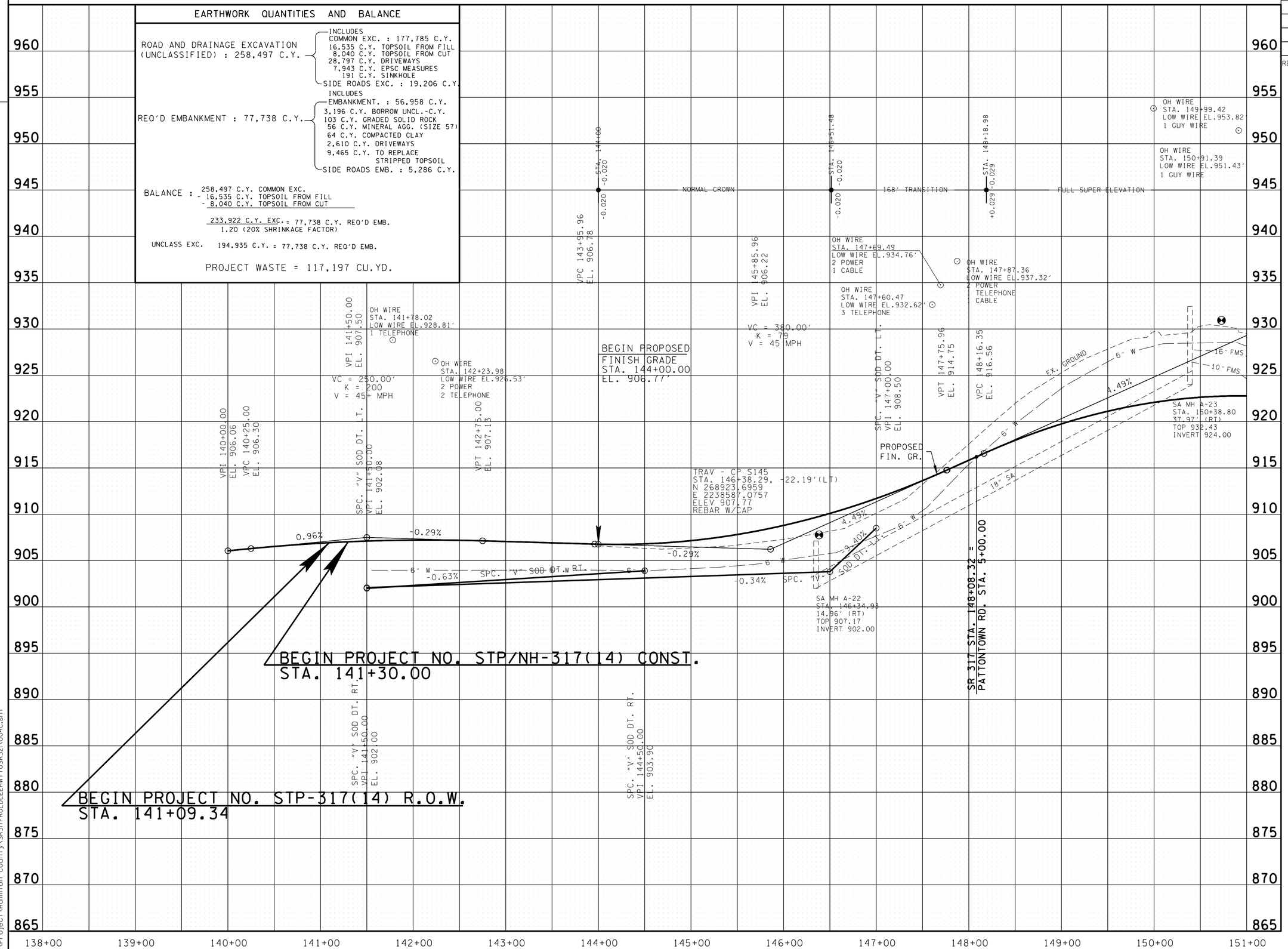
REQ'D EMBANKMENT : 77,738 C.Y.
- INCLUDES
- EMBANKMENT. : 56,958 C.Y.
- 3,196 C.Y. BORROW UNCL.-C.Y.
- 103 C.Y. GRADED SOLID ROCK
- 56 C.Y. MINERAL AGG. (SIZE 57)
- 64 C.Y. COMPACTED CLAY
- 2,610 C.Y. DRIVEWAYS
- 9,465 C.Y. TO REPLACE STRIPPED TOPSOIL
- SIDE ROADS EMB. : 5,286 C.Y.

BALANCE : 258,497 C.Y. COMMON EXC.
- 16,535 C.Y. TOPSOIL FROM FILL
- 8,040 C.Y. TOPSOIL FROM CUT

233,922 C.Y. EXC. = 77,738 C.Y. REQ'D EMB.
1.20 (20% SHRINKAGE FACTOR)

UNCLASS EXC. 194,935 C.Y. = 77,738 C.Y. REQ'D EMB.

PROJECT WASTE = 117,197 CU.YD.

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NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 141+30 TO STA. 151+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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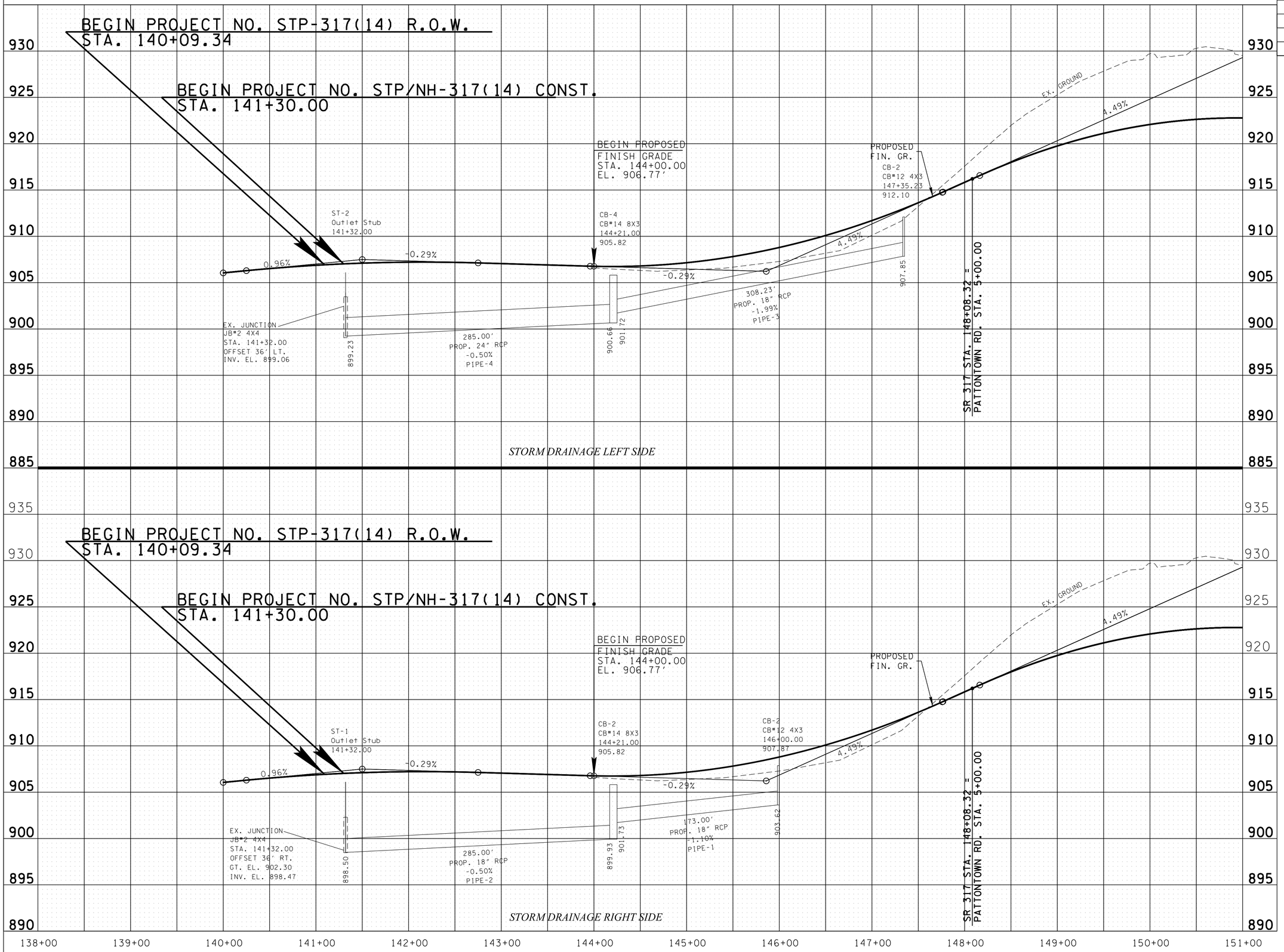
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 4D |

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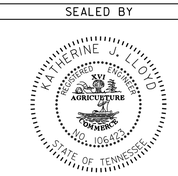


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORM DRAINAGE PROFILE

STA.141 +30 TO STA.151 +00

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

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

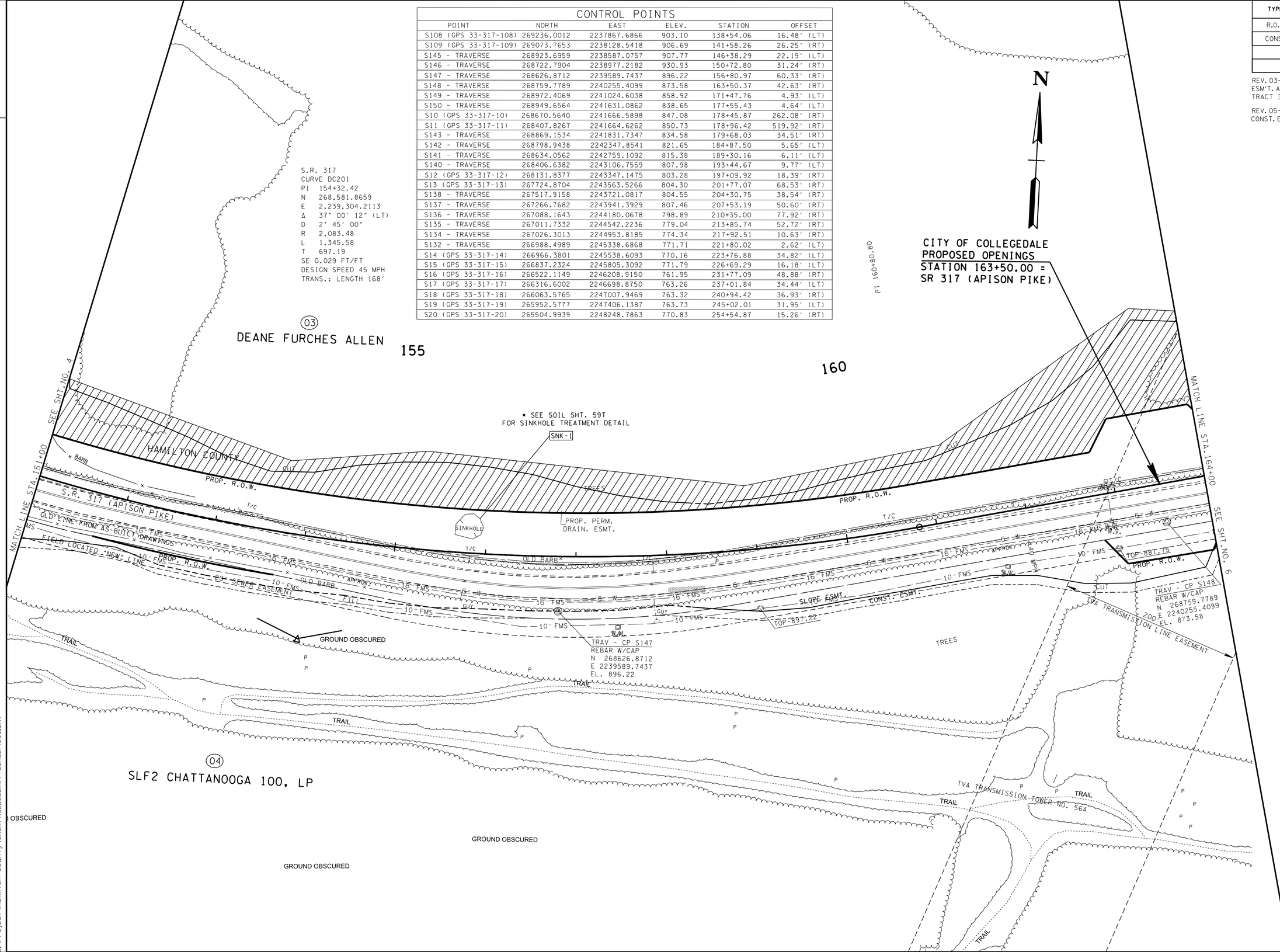
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 5 |
| CONST. | 2014 | STP/NH-317(14) | 5 |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.

## CONTROL POINTS

| POINT | NORTH | EAST | ELEV. | STATION | OFFSET |
|---|---|---|---|---|---|
| S108 (GPS 33-317-108) | 269236.0012 | 2237867.6866 | 903.10 | 138+54.06 | 16.48' (LT) |
| S109 (GPS 33-317-109) | 269073.7653 | 2238128.5418 | 906.69 | 141+58.26 | 26.25' (RT) |
| S145 - TRAVERSE | 268923.6959 | 2238587.0757 | 907.77 | 146+38.29 | 22.19' (LT) |
| S146 - TRAVERSE | 268722.7904 | 2238977.2182 | 930.93 | 150+72.80 | 31.24' (RT) |
| S147 - TRAVERSE | 268626.8712 | 2239589.7437 | 896.22 | 156+80.97 | 60.33' (RT) |
| S148 - TRAVERSE | 268759.7789 | 2240255.4099 | 873.58 | 163+50.37 | 42.63' (RT) |
| S149 - TRAVERSE | 268972.4069 | 2241024.6038 | 858.92 | 171+47.76 | 4.93' (LT) |
| S150 - TRAVERSE | 268949.6564 | 2241631.0862 | 838.65 | 177+55.43 | 4.64' (LT) |
| S10 (GPS 33-317-10) | 268670.5640 | 2241666.5898 | 847.08 | 178+45.87 | 262.08' (RT) |
| S11 (GPS 33-317-11) | 268407.8267 | 2241664.6262 | 850.73 | 178+96.42 | 519.92' (RT) |
| S143 - TRAVERSE | 268869.1534 | 2241831.7347 | 834.58 | 179+68.03 | 34.51' (RT) |
| S142 - TRAVERSE | 268798.9438 | 2242347.8541 | 821.65 | 184+87.50 | 5.65' (LT) |
| S141 - TRAVERSE | 268634.0562 | 2242759.1092 | 815.38 | 189+30.16 | 6.11' (LT) |
| S140 - TRAVERSE | 268406.6382 | 2243106.7559 | 807.98 | 193+44.67 | 9.77' (LT) |
| S12 (GPS 33-317-12) | 268131.8377 | 2243347.1475 | 803.28 | 197+09.92 | 18.39' (RT) |
| S13 (GPS 33-317-13) | 267724.8704 | 2243563.5266 | 804.30 | 201+77.07 | 68.53' (RT) |
| S138 - TRAVERSE | 267517.9158 | 2243721.0817 | 804.55 | 204+30.75 | 38.54' (RT) |
| S137 - TRAVERSE | 267266.7682 | 2243941.3929 | 807.46 | 207+53.19 | 50.60' (RT) |
| S136 - TRAVERSE | 267088.1643 | 2244180.0678 | 798.89 | 210+35.00 | 77.92' (RT) |
| S135 - TRAVERSE | 267011.7332 | 2244542.2236 | 779.04 | 213+85.74 | 52.72' (RT) |
| S134 - TRAVERSE | 267026.3013 | 2244953.8185 | 774.34 | 217+92.51 | 10.63' (RT) |
| S132 - TRAVERSE | 266988.4989 | 2245338.6868 | 771.71 | 221+80.02 | 2.62' (LT) |
| S14 (GPS 33-317-14) | 266966.3801 | 2245538.6093 | 770.16 | 223+76.88 | 34.82' (LT) |
| S15 (GPS 33-317-15) | 266837.2324 | 2245805.3092 | 771.79 | 226+69.29 | 16.18' (LT) |
| S16 (GPS 33-317-16) | 266522.1149 | 2246208.9150 | 761.95 | 231+77.09 | 48.88' (RT) |
| S17 (GPS 33-317-17) | 266316.6002 | 2246698.8750 | 763.26 | 237+01.84 | 34.44' (LT) |
| S18 (GPS 33-317-18) | 266063.5765 | 2247007.9469 | 763.32 | 240+94.42 | 36.93' (RT) |
| S19 (GPS 33-317-19) | 265952.5777 | 2247406.1387 | 763.73 | 245+02.01 | 31.95' (LT) |
| S20 (GPS 33-317-20) | 265504.9939 | 2248248.7863 | 770.83 | 254+54.87 | 15.26' (RT) |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

8-JUN-2014 08:13
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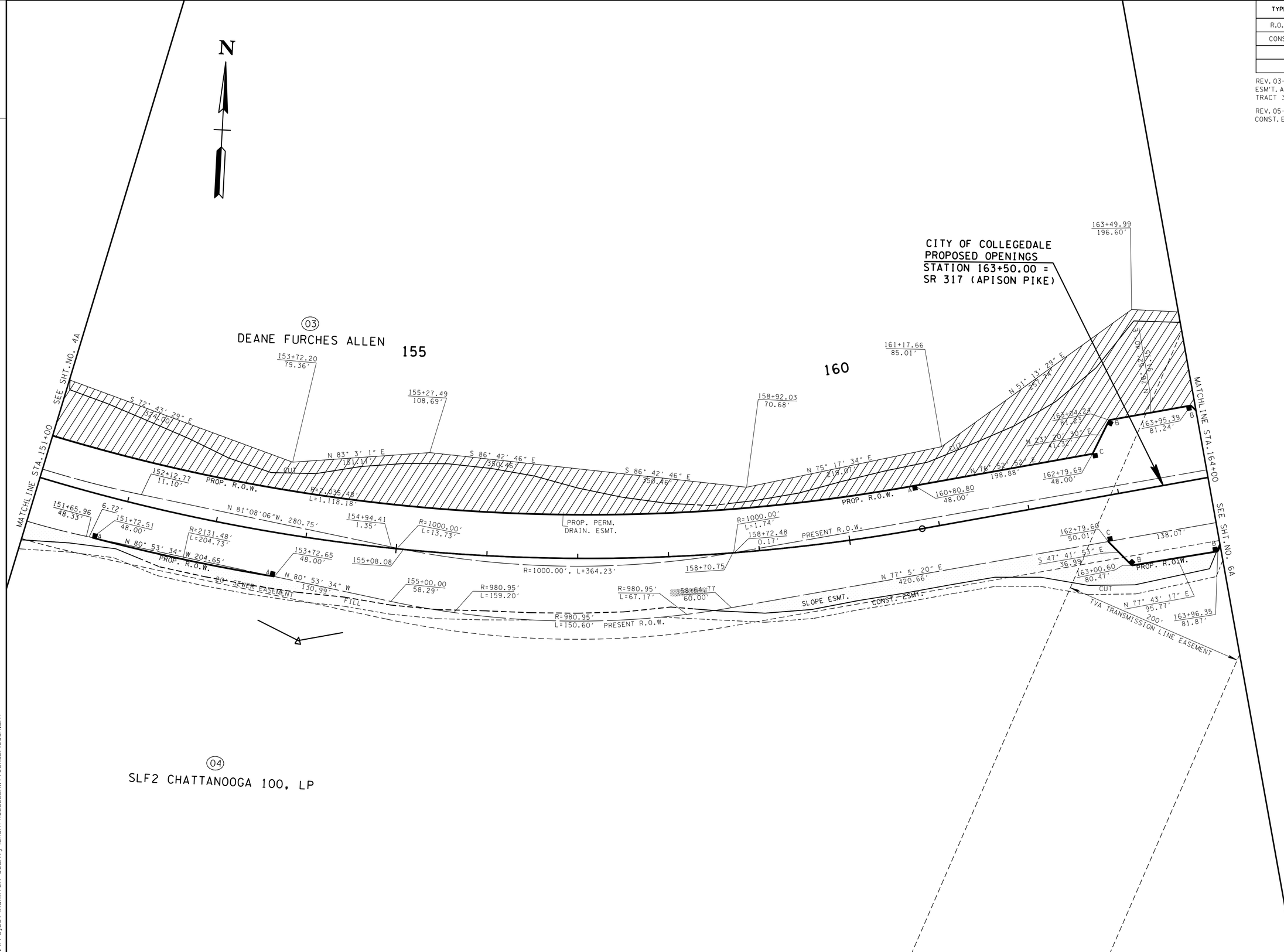
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 5A |
| CONST. | 2014 | STP/NH-317(14) | 5A |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

8-JUN-2014 08:13
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

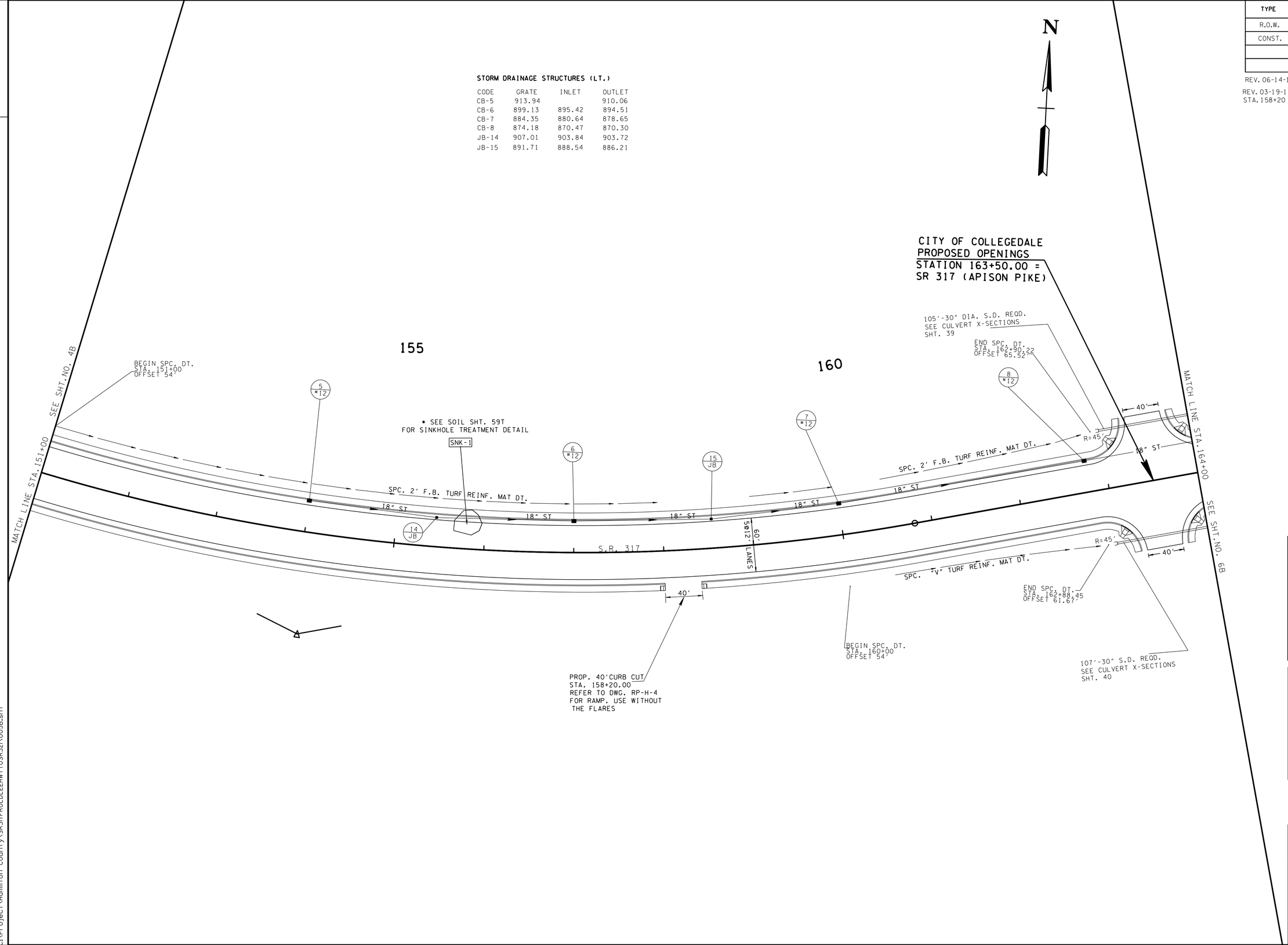
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 5B |
| CONST. | 2014 | STP/NH-317(14) | 5B |
| | | | |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.

REV. 03-19-14: ADDED 40' CURB CUT TO TRACT 4 STA. 158+20 RT. PER OWNER'S REQUEST.

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-5 | 913.94 | | 910.06 |
| CB-6 | 899.13 | 895.42 | 894.51 |
| CB-7 | 884.35 | 880.64 | 878.65 |
| CB-8 | 874.18 | 870.47 | 870.30 |
| JB-14 | 907.01 | 903.84 | 903.72 |
| JB-15 | 891.71 | 888.54 | 886.21 |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

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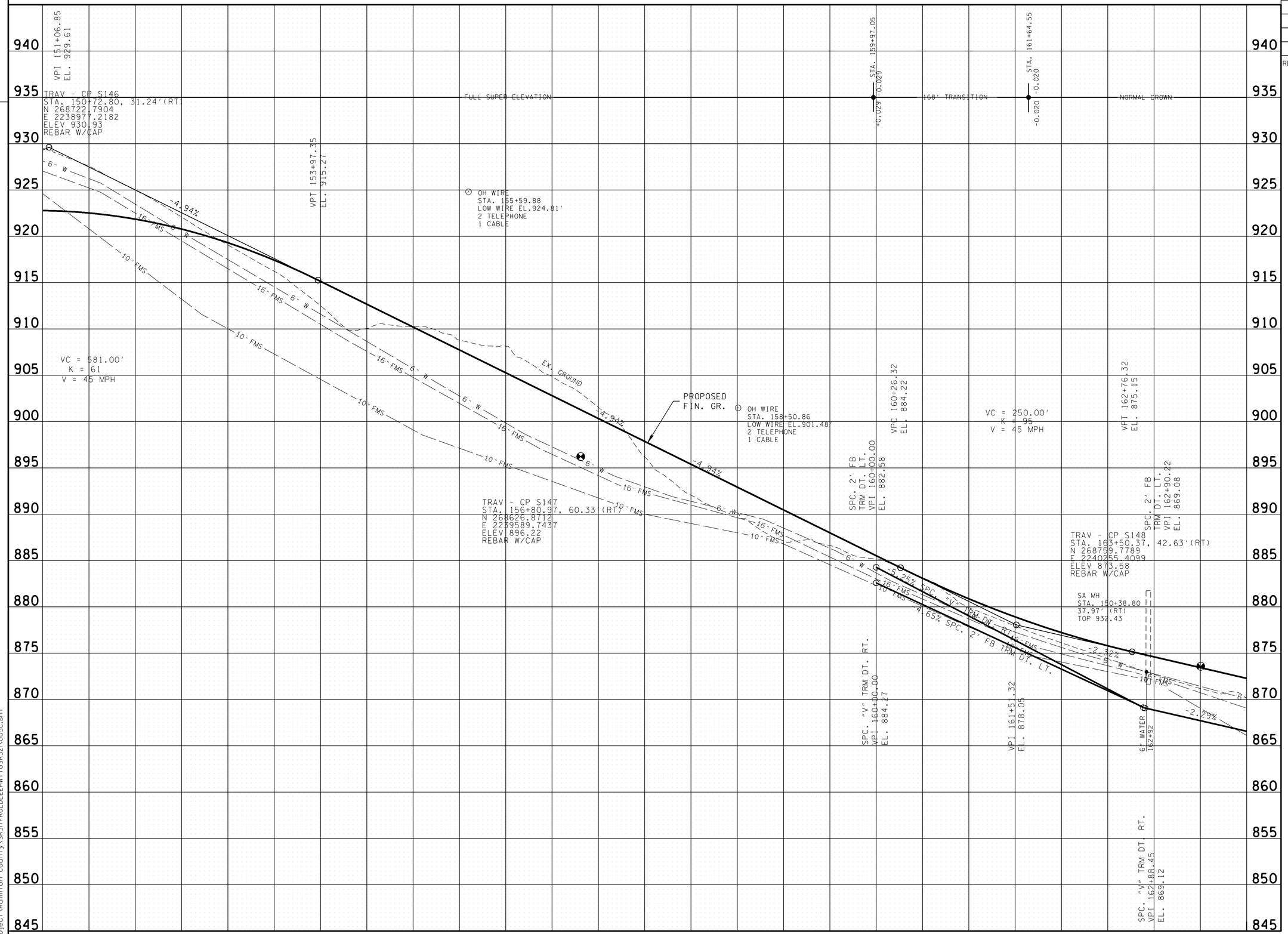
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 5C |
| CONST. | 2014 | STP/NH-317(14) | 5C |

REV. 06-14-13: ADJUSTED DRAINAGE.

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 151+00 TO STA. 164+00

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

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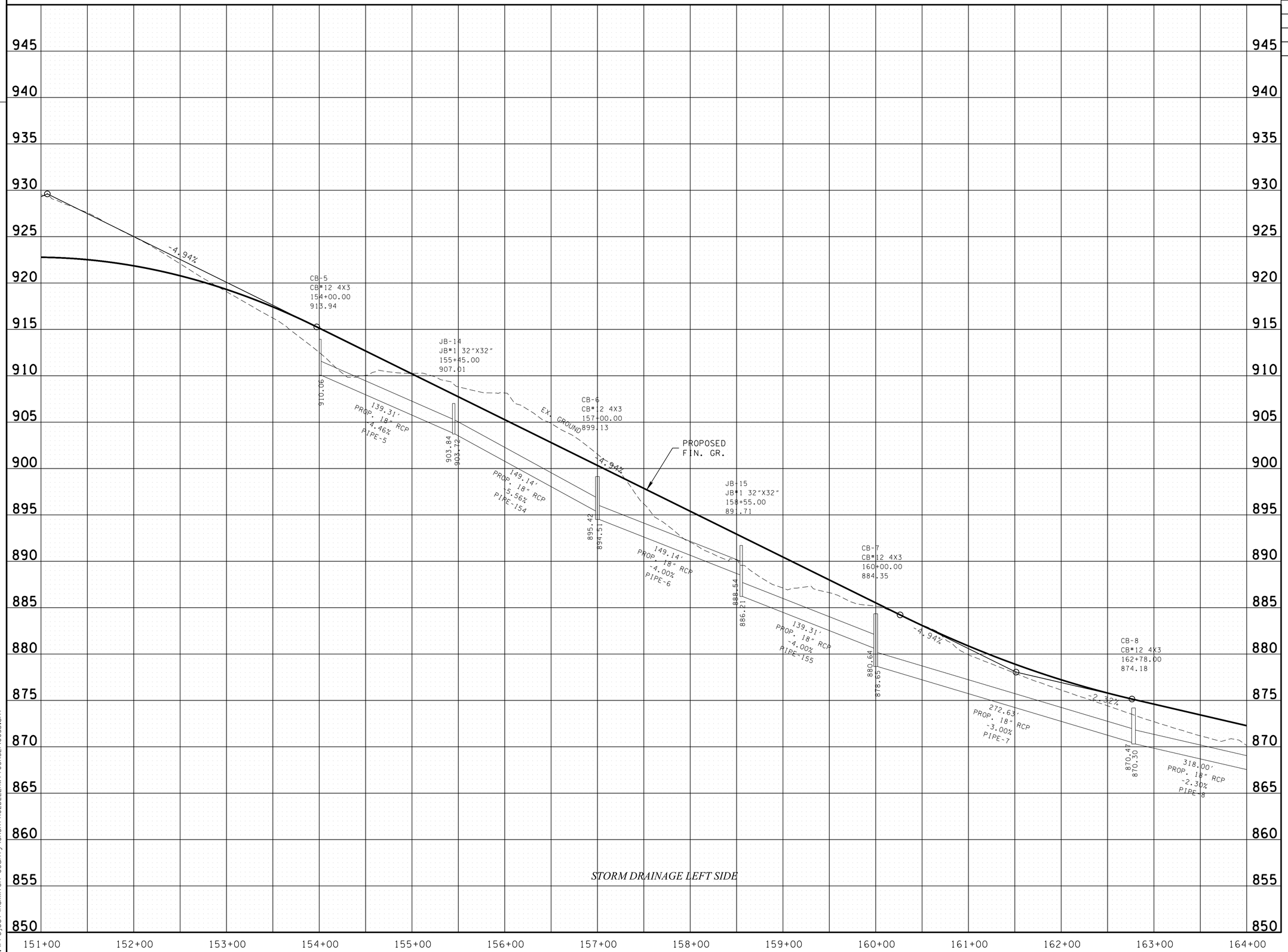
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 5D |

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.151 +00 TO STA.164 +00

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

8-JUN-2014 08:13
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 6 |
| CONST. | 2014 | STP/NH-317(14) | 6 |
| | | | |
| | | | |

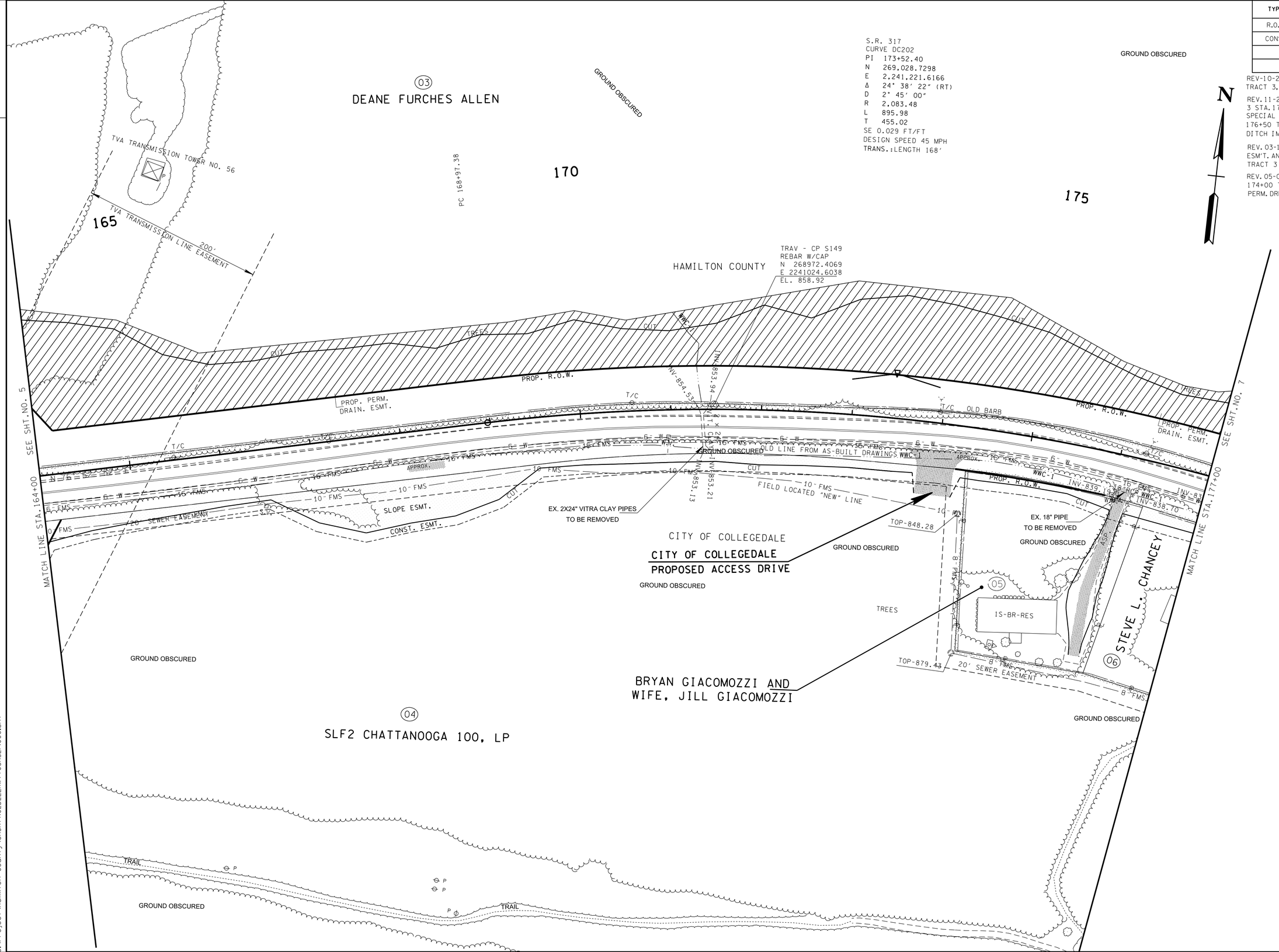
REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT. TO TRACT 3, SLOPE & CONST. ESMT. TO TRACTS 5 & 6.

REV. 11-28-12: CORRECTED SLOPE OFFSET ON TRACT 3 STA. 170+00 TO STA. 172+50 LEFT DUE TO SPECIAL DITCH ADJUSTMENT AND ALSO STA. 176+50 TO STA. 177+00 RIGHT DUE TO SPECIAL DITCH IMPLEMENTATION.

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST.

REV. 05-09-14: SHIFTED ACCESS DR. RT. FROM STA. 174+00 TO STA. 173+98 ON TRACT 4. ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T ON TRACT 3.

S.R. 317
CURVE DC202
PI 173+52.40
N 269,028.7298
E 2,241,221.6166
Δ 24° 38' 22" (RT)
D 2° 45' 00"
R 2,083.48
L 895.98
T 455.02
SE 0.029 FT/FT
DESIGN SPEED 45 MPH
TRANS.:LENGTH 168'

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

8-JUN-2014 08:13
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

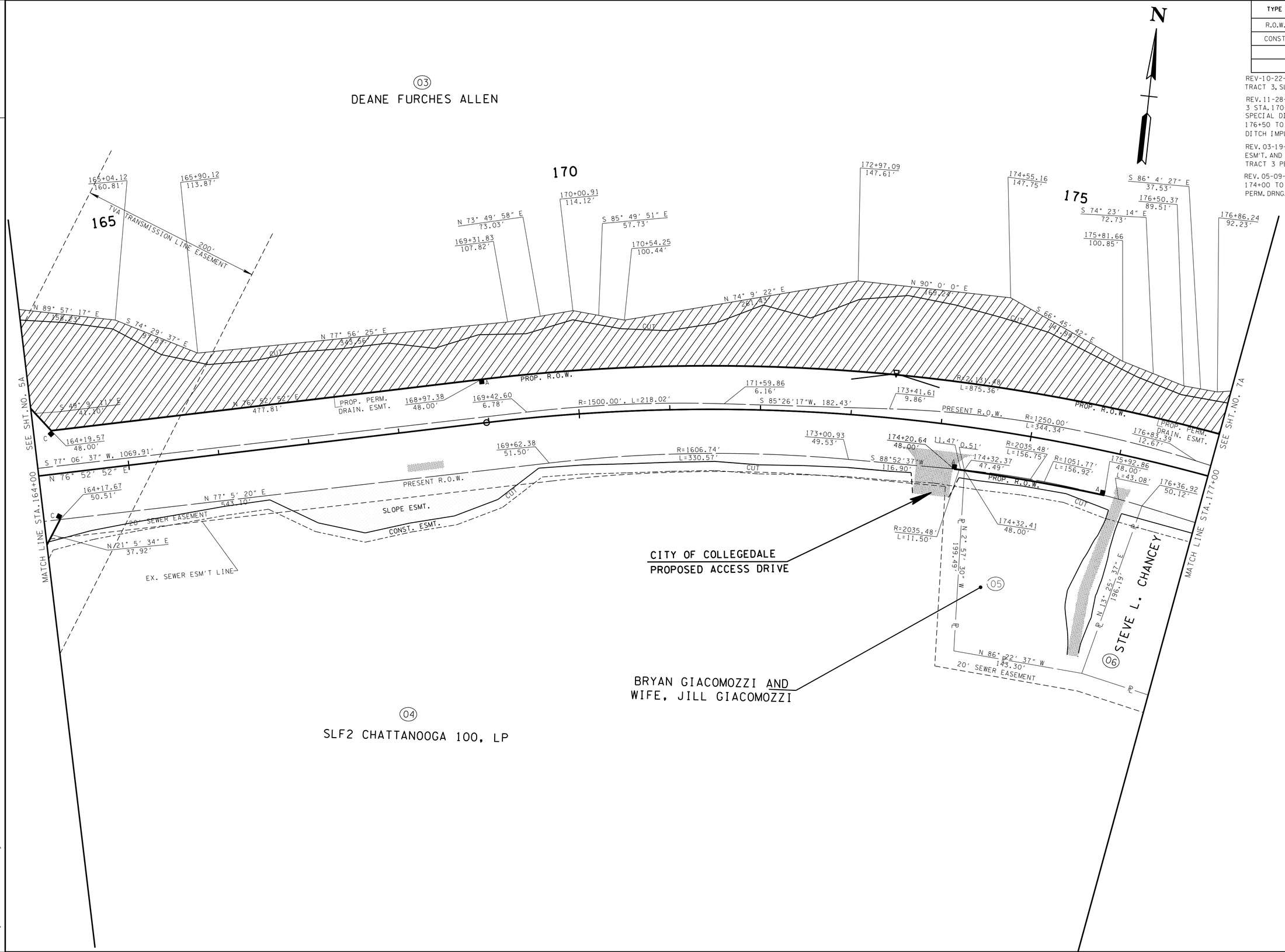
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 6A |
| CONST. | 2014 | STP/NH-317(14) | 6A |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT. TO TRACT 3, SLOPE & CONST. ESMT. TO TRACTS 5 & 6.

REV. 11-28-12: CORRECTED SLOPE OFFSET ON TRACT 3 STA. 170+00 TO STA. 172+50 LEFT DUE TO SPECIAL DITCH ADJUSTMENT AND ALSO STA. 176+50 TO STA. 177+00 RIGHT DUE TO SPECIAL DITCH IMPLEMENTATION.

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST.

REV. 05-09-14: SHIFTED ACCESS DR. RT. FROM STA. 174+00 TO STA. 173+98 ON TRACT 4. ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T ON TRACT 3.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

8-JUN-2014 08:13
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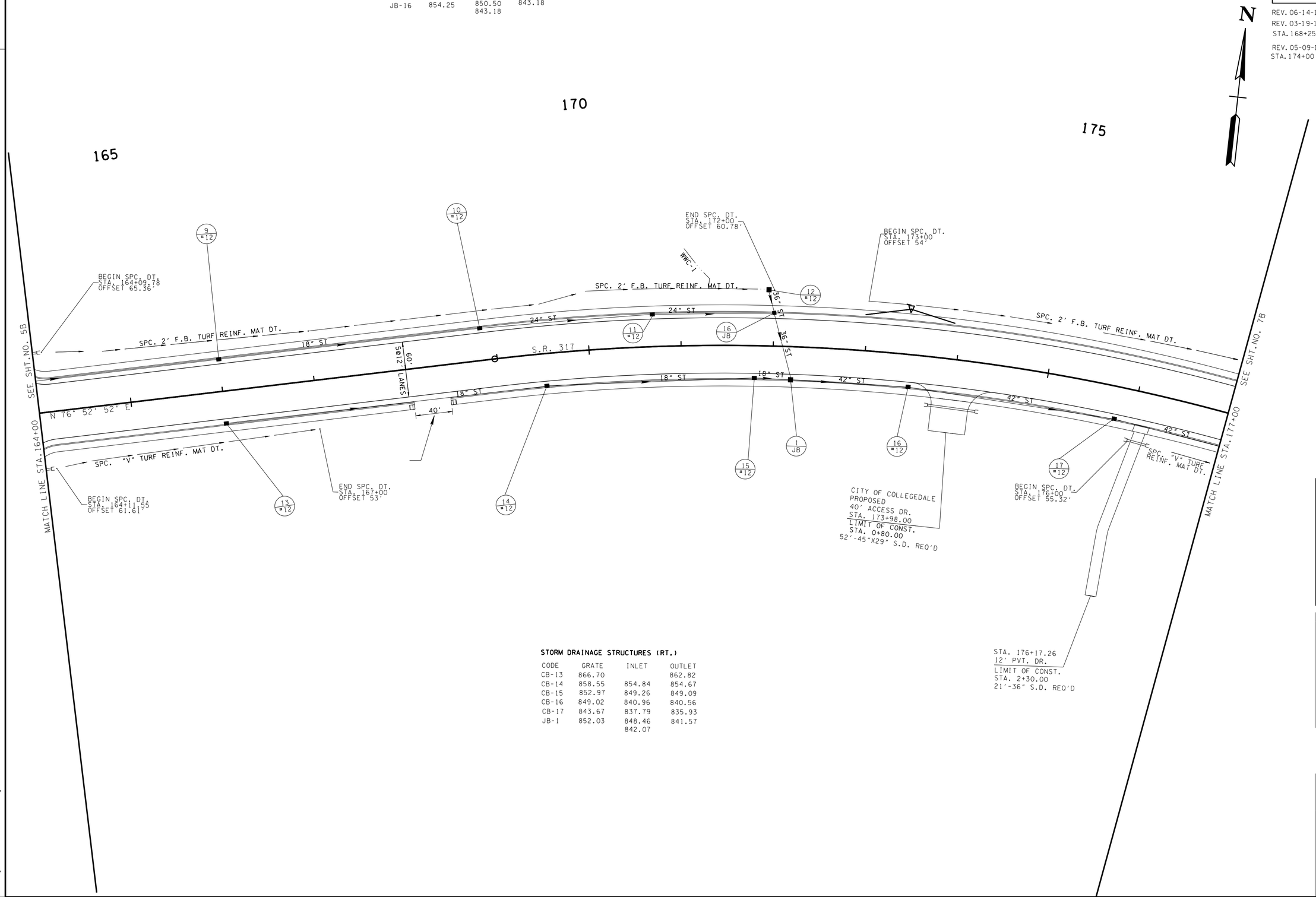
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-9 | 866.70 | 862.99 | 862.82 |
| CB-10 | 860.71 | 856.96 | 856.46 |
| CB-11 | 857.26 | 853.01 | 852.84 |
| CB-12 | 849.17 | | 843.50 |
| JB-16 | 854.25 | 850.50<br>843.18 | 843.18 |

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 6B |
| CONST. | 2014 | STP/NH-317(14) | 6B |
| | | | |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.
REV. 03-19-14: ADDED 40' CURB CUT TO TRACT 4 STA. 168+25 RT. PER OWNER'S REQUEST.
REV. 05-09-14: SHIFTED ACCESS DR. RT. FROM STA. 174+00 TO STA. 173+98.




**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-13 | 866.70 | | 862.82 |
| CB-14 | 858.55 | 854.84 | 854.67 |
| CB-15 | 852.97 | 849.26 | 849.09 |
| CB-16 | 849.02 | 840.96 | 840.56 |
| CB-17 | 843.67 | 837.79 | 835.93 |
| JB-1 | 852.03 | 848.46<br>842.07 | 841.57 |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

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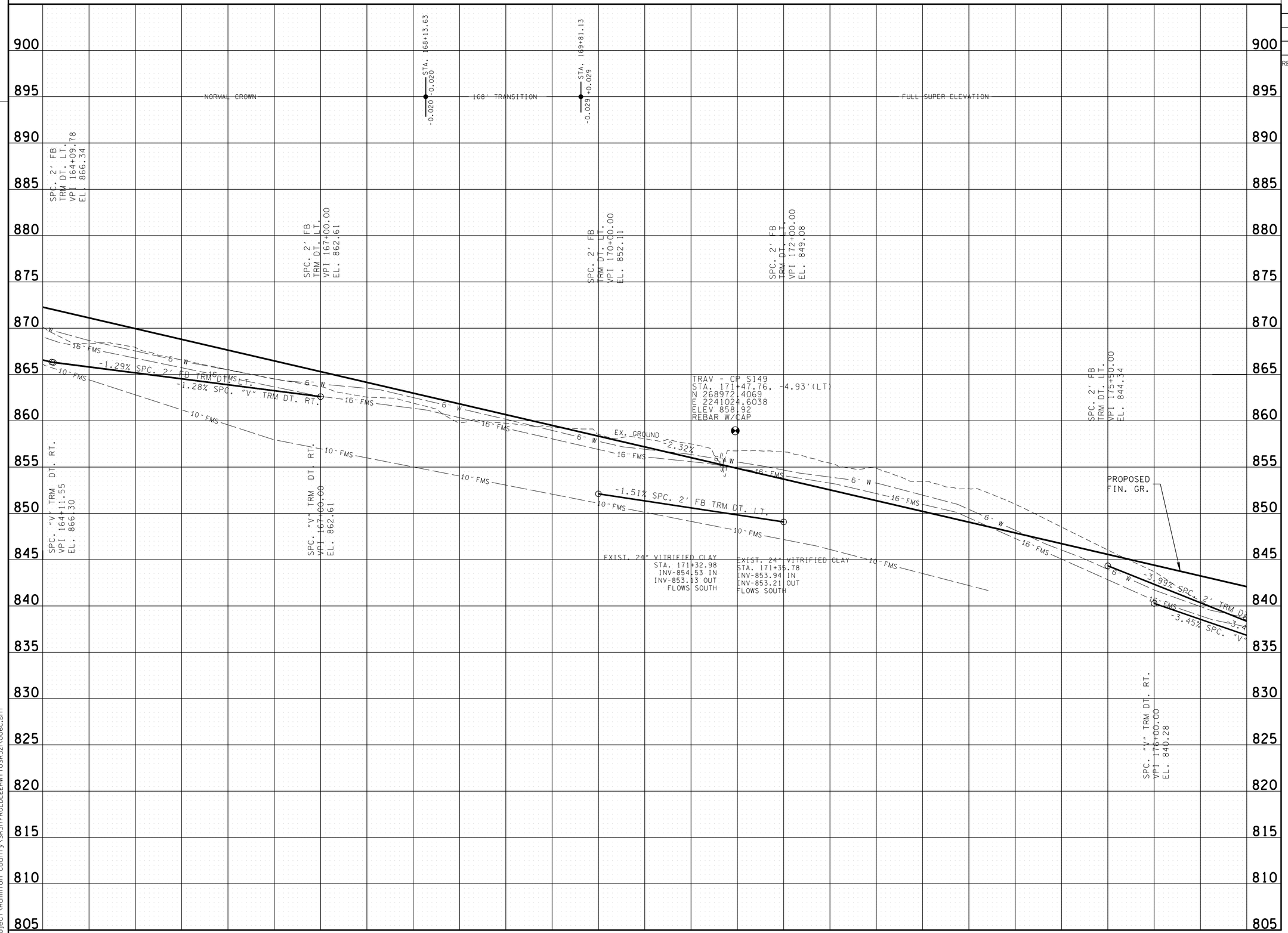
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 6C |
| CONST. | 2014 | STP/NH-317(14) | 6C |

REV. 06-14-13: ADJUSTED DRAINAGE.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 164+00 TO STA. 177+00

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

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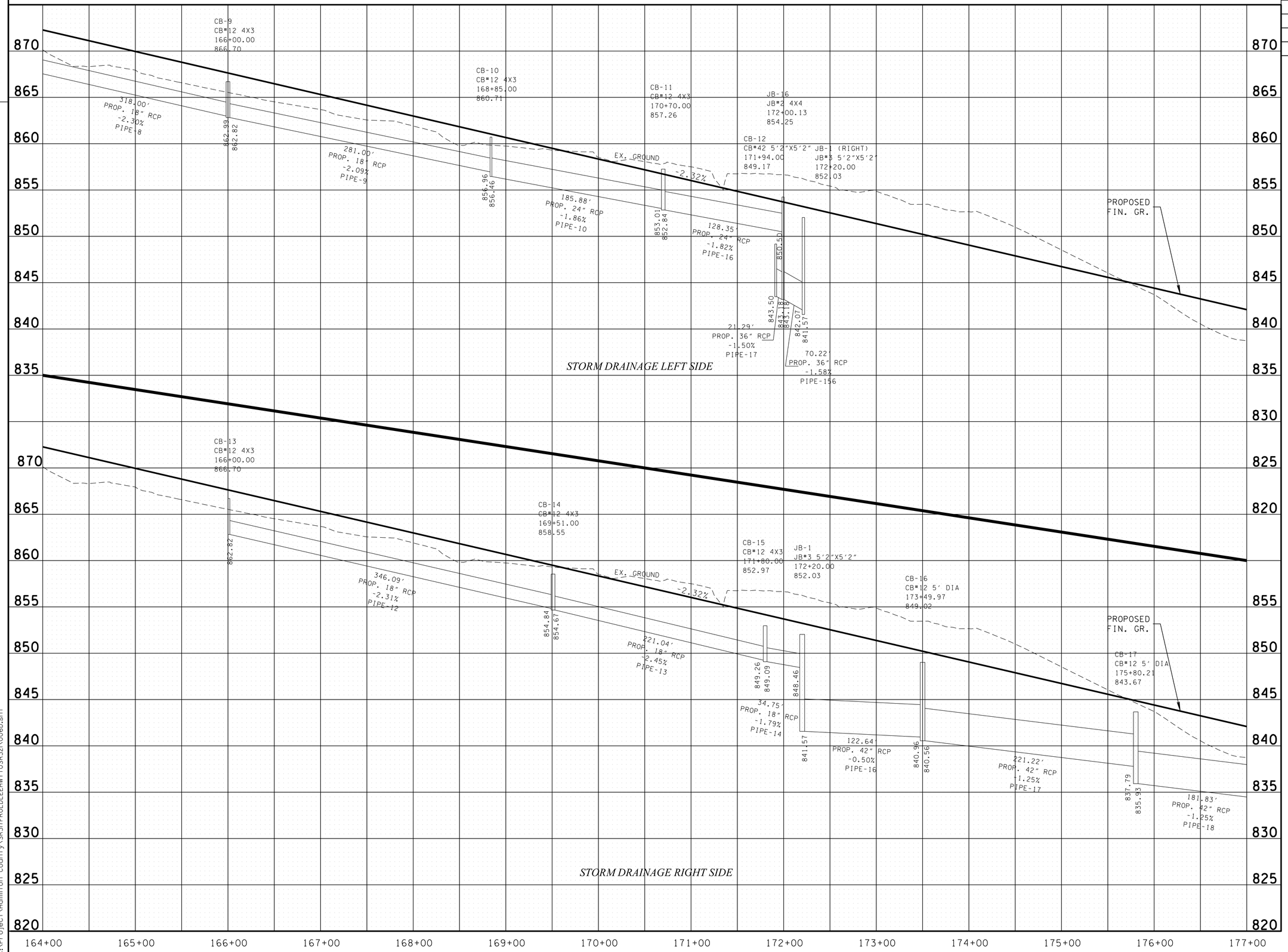
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 6D |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.164 +00 TO STA.177 +00

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

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 7 |
| CONST. | 2014 | STP/NH-317(14) | 7 |
| | | | |
| | | | |

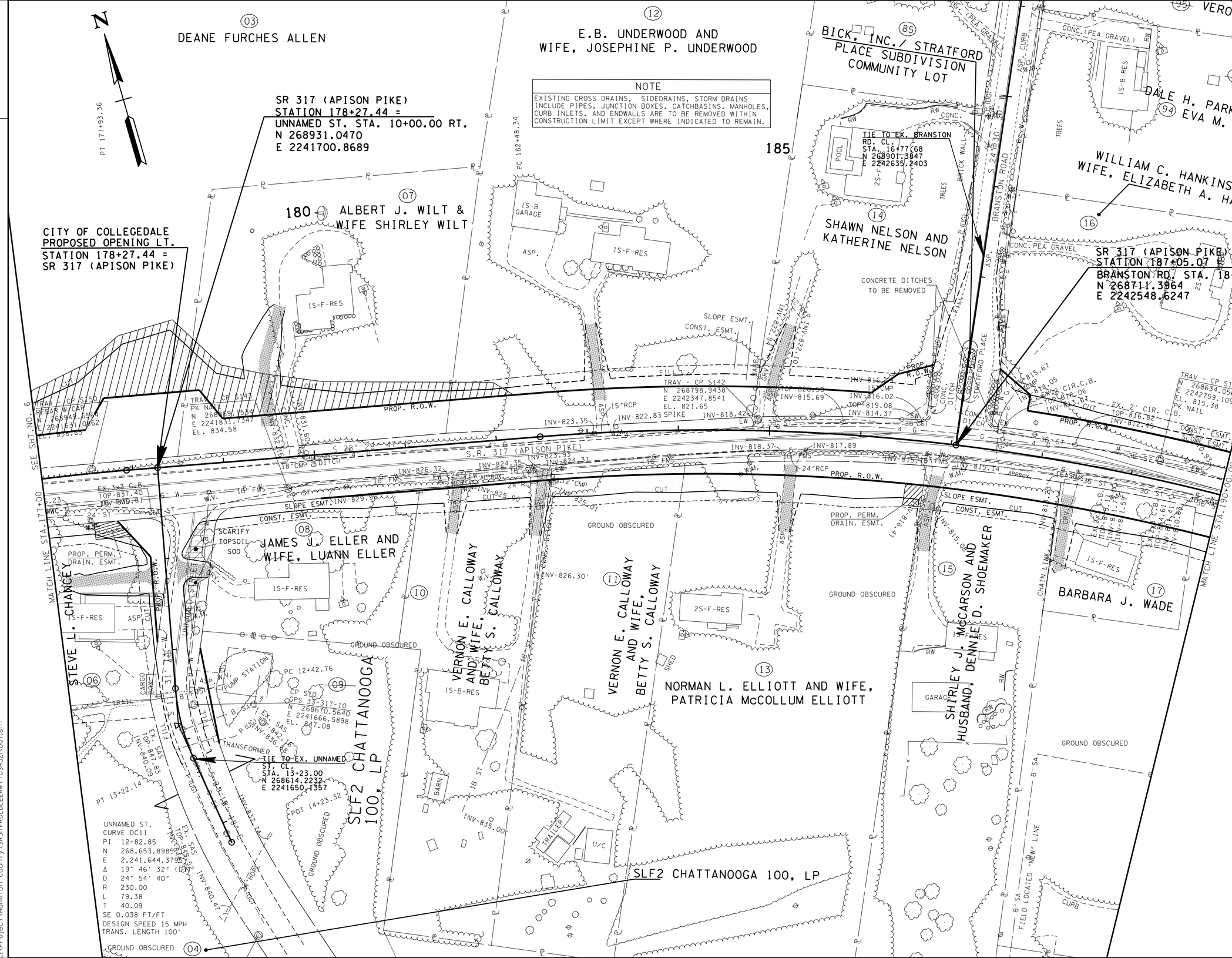
REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT. TO TRACT 3, SLOPE & CONST. ESMT. TO TRACTS 6, 8, 10, 11, 13, 15, 16 & 17.

REV. 11-28-12: CORRECTED SLOPE OFFSET DUE TO SPECIAL DITCH IMPLEMENTATION STA. 177+00 TO STA. 178+00 & STA. 180+00 TO STA. 190+00 RIGHT. ALSO STA. 187+50 TO STA. 189+00 LEFT DUE TO DITCH ADJUSTMENT.

REV. 06-14-13: ADJUSTED PROP. R.O.W. ON TRACTS 14 & 16. ADJUSTED PERM. DRAINAGE ESM'T ON TRACT 6. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 6, 14 & 16.

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 13 FOR CATCHBASIN.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T ON TRACT 3.




UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 7A |
| CONST. | 2014 | STP/NH-317(14) | 7A |
| | | | |
| | | | |

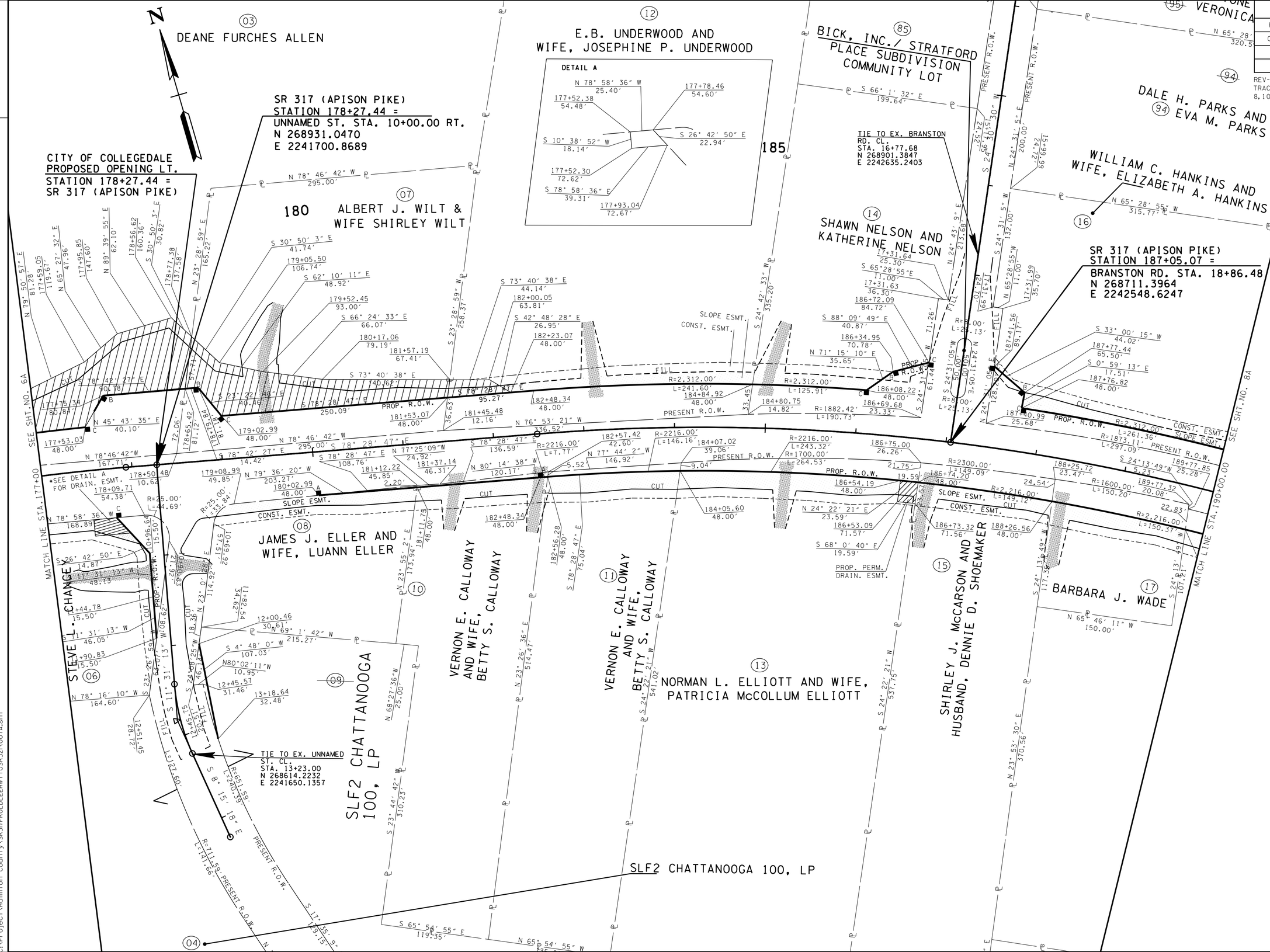
REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT. TO TRACT 3, SLOPE & CONST. ESMT. TO TRACTS 6, 8, 10, 11, 13, 15, 16 & 17.

REV. 11-28-12: CORRECTED SLOPE OFFSET DUE TO SPECIAL DITCH IMPLEMENTATION STA. 177+00 TO STA. 178+00 & STA. 180+00 TO STA. 190+00 RIGHT. ALSO STA. 187+50 TO STA. 189+00 LEFT DUE TO DITCH ADJUSTMENT.

REV. 06-14-13: ADJUSTED PROP. R.O.W. ON TRACTS 14 & 16. ADJUSTED PERM. DRAINAGE ESM'T ON TRACT 6. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 6, 14 & 16. CORRECTED R.O.W. MARKERS.

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 13 FOR CATCHBASIN.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T ON TRACT 3.

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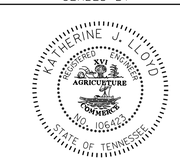
SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

8-JUN-2014 08:13
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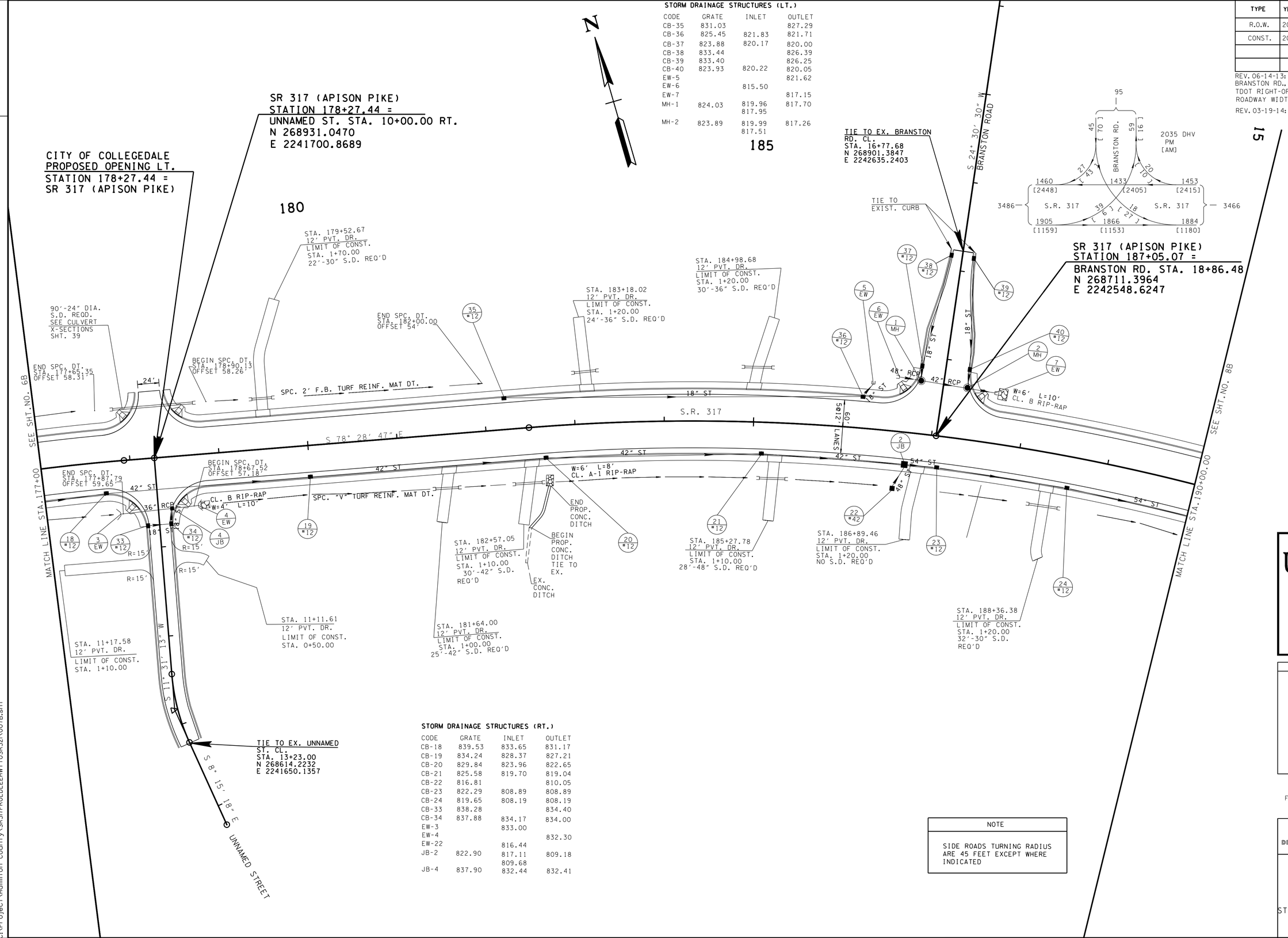
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 7B |
| CONST. | 2014 | STP/NH-317(14) | 7B |
| | | | |
| | | | |

REV. 06-14-13: REMOVED CURB ISLAND FROM BRANSTON RD., CURB ISLAND CANNOT BE INSIDE TDOT RIGHT-OF-WAY. ADJUSTED BRANSTON ROADWAY WIDTH. ADJUSTED DRAINAGE.

REV. 03-19-14: ADJUSTED DRAINAGE NETWORK RT.




**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-35 | 831.03 | | 827.29 |
| CB-36 | 825.45 | 821.83 | 821.71 |
| CB-37 | 823.88 | 820.17 | 820.00 |
| CB-38 | 833.44 | | 826.39 |
| CB-39 | 833.40 | | 826.25 |
| CB-40 | 823.93 | 820.22 | 820.05 |
| EW-5 | | | 821.62 |
| EW-6 | | 815.50 | |
| EW-7 | | | 817.15 |
| MH-1 | 824.03 | 819.96<br>817.95 | 817.70 |
| MH-2 | 823.89 | 819.99<br>817.51 | 817.26 |

**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-18 | 839.53 | 833.65 | 831.17 |
| CB-19 | 834.24 | 828.37 | 827.21 |
| CB-20 | 829.84 | 823.96 | 822.65 |
| CB-21 | 825.58 | 819.70 | 819.04 |
| CB-22 | 816.81 | | 810.05 |
| CB-23 | 822.29 | 808.89 | 808.89 |
| CB-24 | 819.65 | 808.19 | 808.19 |
| CB-33 | 838.28 | | 834.40 |
| CB-34 | 837.88 | 834.17 | 834.00 |
| EW-3 | | 833.00 | |
| EW-4 | | | 832.30 |
| EW-22 | | 816.44 | |
| JB-2 | 822.90 | 817.11<br>809.68 | 809.18 |
| JB-4 | 837.90 | 832.44 | 832.41 |

**NOTE**

SIDE ROADS TURNING RADIUS ARE 45 FEET EXCEPT WHERE INDICATED

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

8-JUN-2014 08:13
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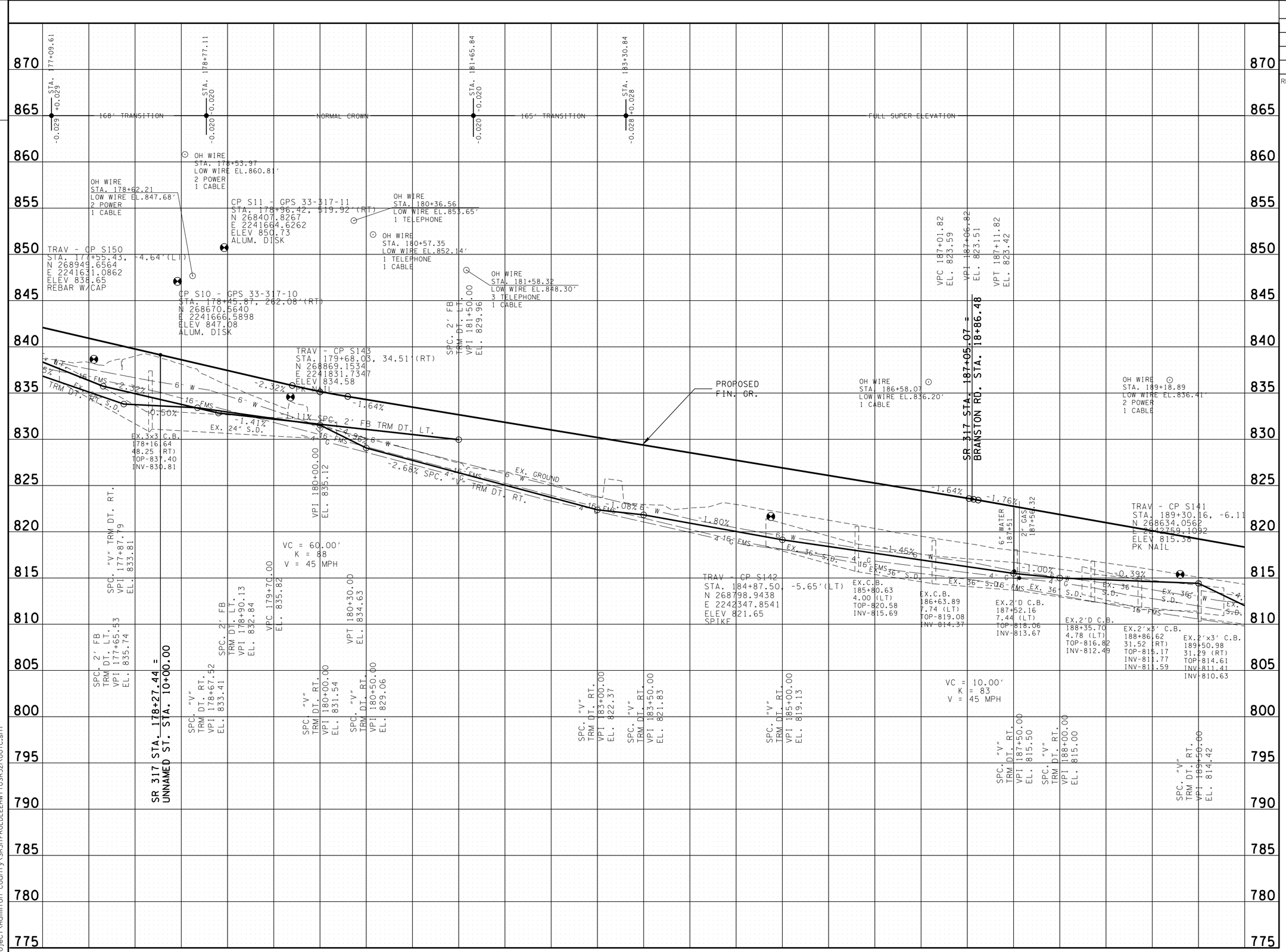
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 7C |
| CONST. | 2014 | STP/NH-317(14) | 7C |

REV. 06-14-13: ADJUSTED DRAINAGE.




UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 177+00 TO STA. 190+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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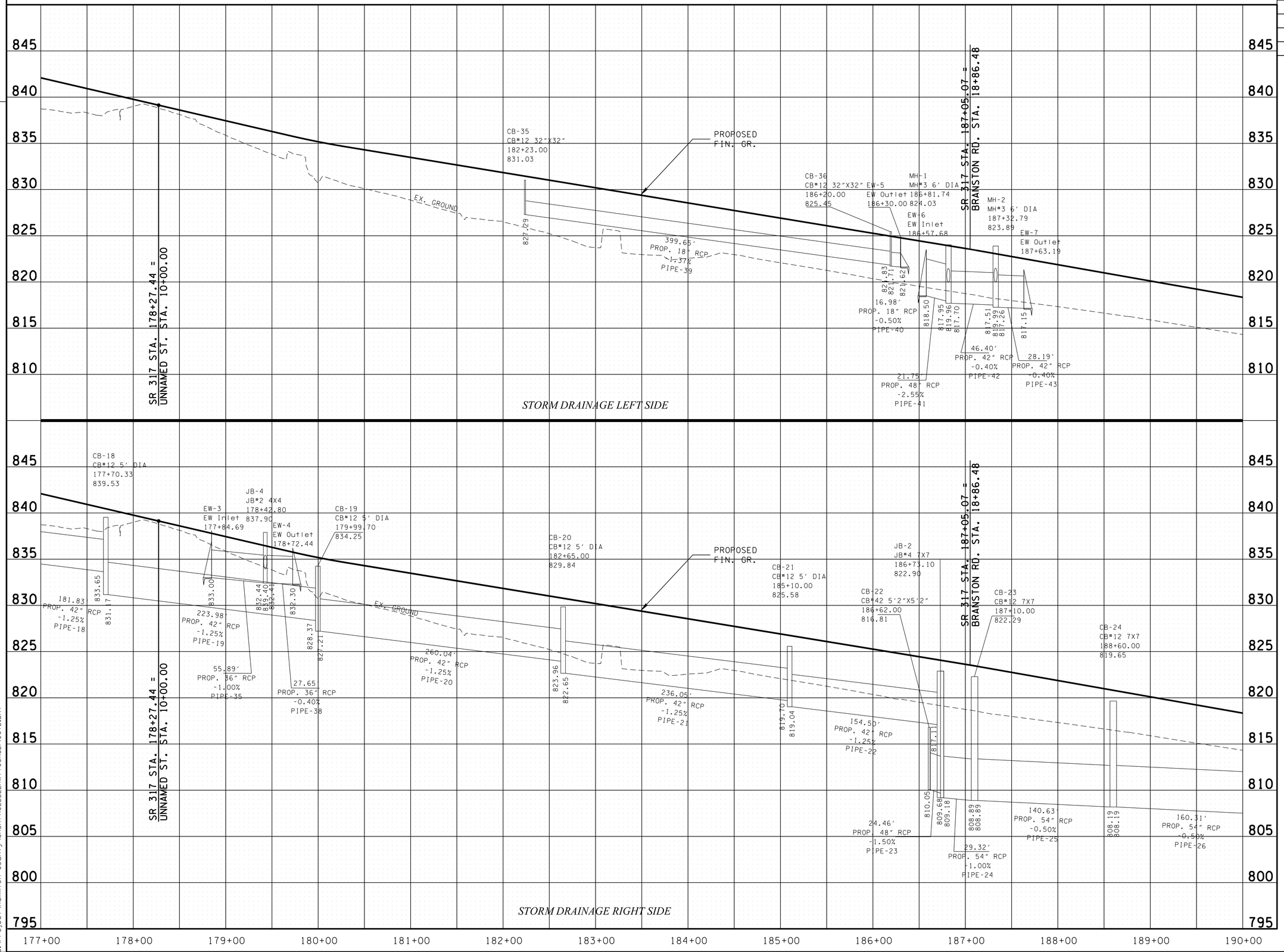
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 7D |




**UNOFFICIAL SET**
**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.177 +00 TO STA.190 +00

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

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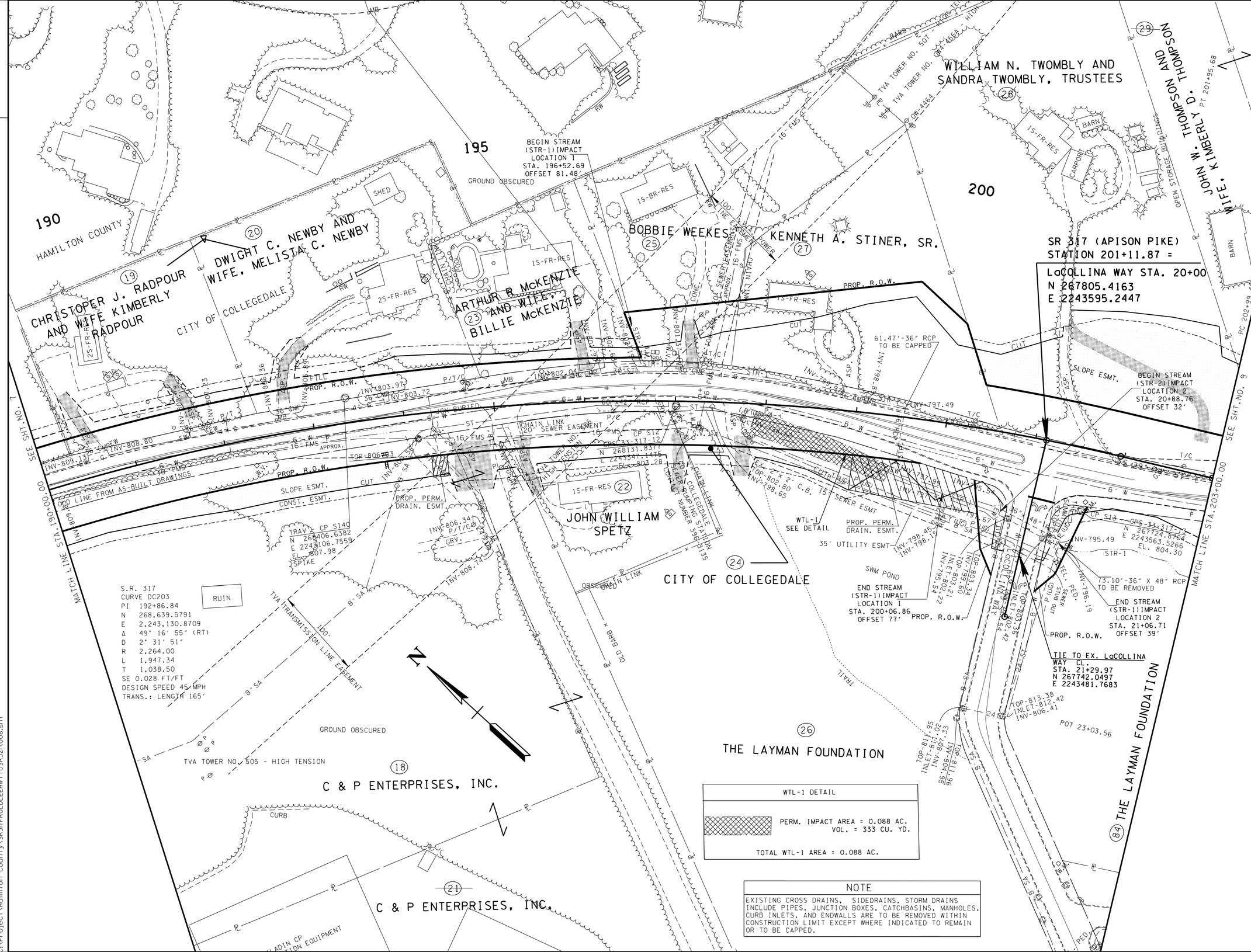
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 8 |
| CONST. | 2014 | STP/NH-317(14) | 8 |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED SLOPE & CONST. ESMT. TO TRACTS 18, 21, 22, 24 & 26.

REV. 11-28-12: CORRECTED SLOPE OFFSET DUE TO SPECIAL DITCH IMPLEMENTATION STA. 190+00 TO 200+00 RIGHT AND STA. 197+50 TO STA. 200+00 LEFT.

REV. 03-19-14: ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 18 FOR CATCHBASIN.




WTL-1 DETAIL

PERM. IMPACT AREA = 0.088 AC.
VOL. = 333 CU. YD.

TOTAL WTL-1 AREA = 0.088 AC.

NOTE

EXISTING CROSS DRAINS, SIDEDRAINS, STORM DRAINS INCLUDE PIPES, JUNCTION BOXES, CATCHBASINS, MANHOLES, CURB INLETS, AND ENDWALLS ARE TO BE REMOVED WITHIN CONSTRUCTION LIMIT EXCEPT WHERE INDICATED TO REMAIN OR TO BE CAPPED.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 104422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

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

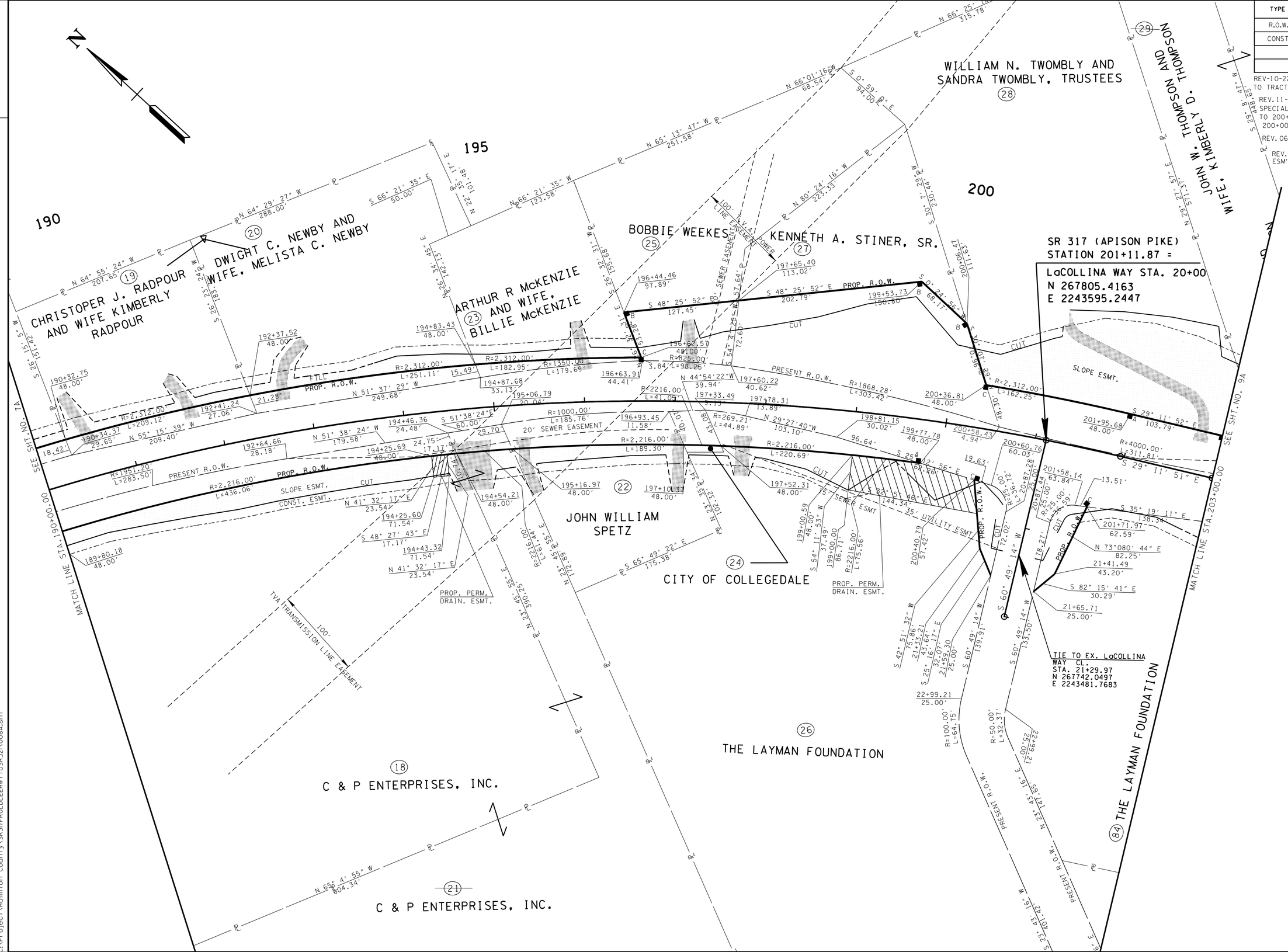
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 8A |
| CONST. | 2014 | STP/NH-317(14) | 8A |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED SLOPE & CONST. ESMT. TO TRACTS 18, 21, 22, 24 & 26.

REV. 11-28-12: CORRECTED SLOPE OFFSET DUE TO SPECIAL DITCH IMPLEMENTATION STA. 190+00 TO 200+00 RIGHT AND STA. 197+50 TO STA. 200+00 LEFT.

REV. 06-14-13: CORRECTED R.O.W. MARKERS.

REV. 03-19-14: ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 18 FOR CATCHBASIN.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 8B |
| CONST. | 2014 | STP/NH-317(14) | 8B |
| | | | |
| | | | |

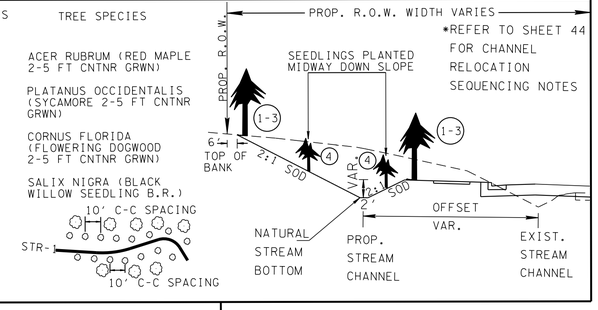
REV. 06-14-13: ADJUSTED DRAINAGE.
REV. 03-19-14: ADJUSTED DRAINAGE NETWORK RT.

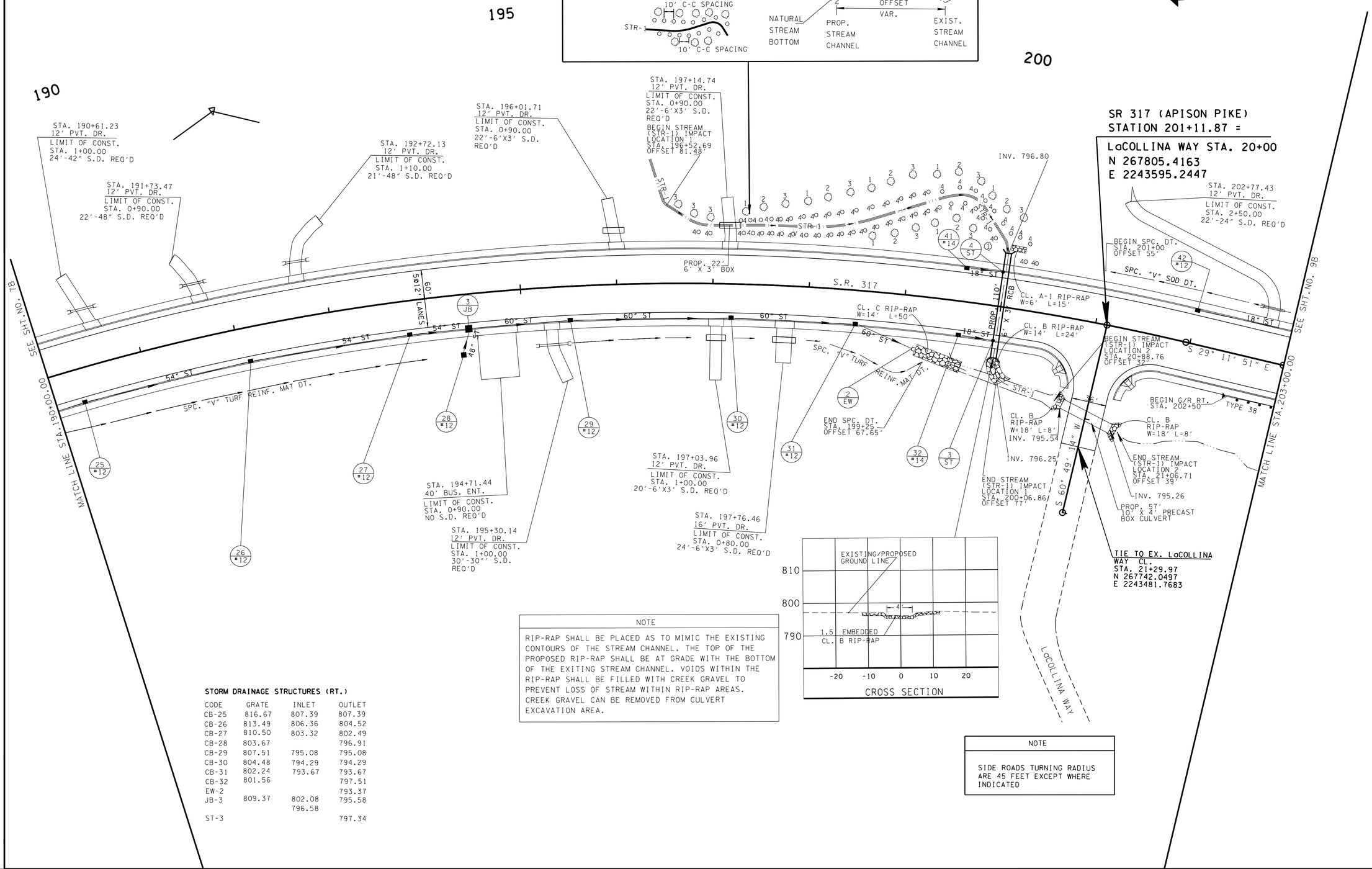
**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-41 | 803.20 | | 799.15 |
| CB-42 | 804.41 | | 800.53 |
| ST-4 | | | 798.00 |

**STREAM STR-1 MITIGATION**

| QUANTITIES | | TREE SPECIES |
|---|---|---|
| 1 | 8 | ACER RUBRUM (RED MAPLE 2-5 FT CNTNR GRWN) |
| 2 | 7 | PLATANUS OCCIDENTALIS (SYCAMORE 2-5 FT CNTNR GRWN) |
| 3 | 10 | CORNUS FLORIDA (FLOWERING DOGWOOD 2-5 FT CNTNR GRWN) |
| 4 | 53 | SALIX NIGRA (BLACK WILLOW SEEDLING B.R.) |







NOTE

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXITING STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

NOTE

SIDE ROADS TURNING RADIUS ARE 45 FEET EXCEPT WHERE INDICATED

**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-25 | 816.67 | 807.39 | 807.39 |
| CB-26 | 813.49 | 806.36 | 804.52 |
| CB-27 | 810.50 | 803.32 | 802.49 |
| CB-28 | 803.67 | | 796.91 |
| CB-29 | 807.51 | 795.08 | 795.08 |
| CB-30 | 804.48 | 794.29 | 794.29 |
| CB-31 | 802.24 | 793.67 | 793.67 |
| CB-32 | 801.56 | | 797.51 |
| EW-2 | | | 793.37 |
| JB-3 | 809.37 | 802.08<br>796.58 | 795.58 |
| ST-3 | | | 797.34 |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

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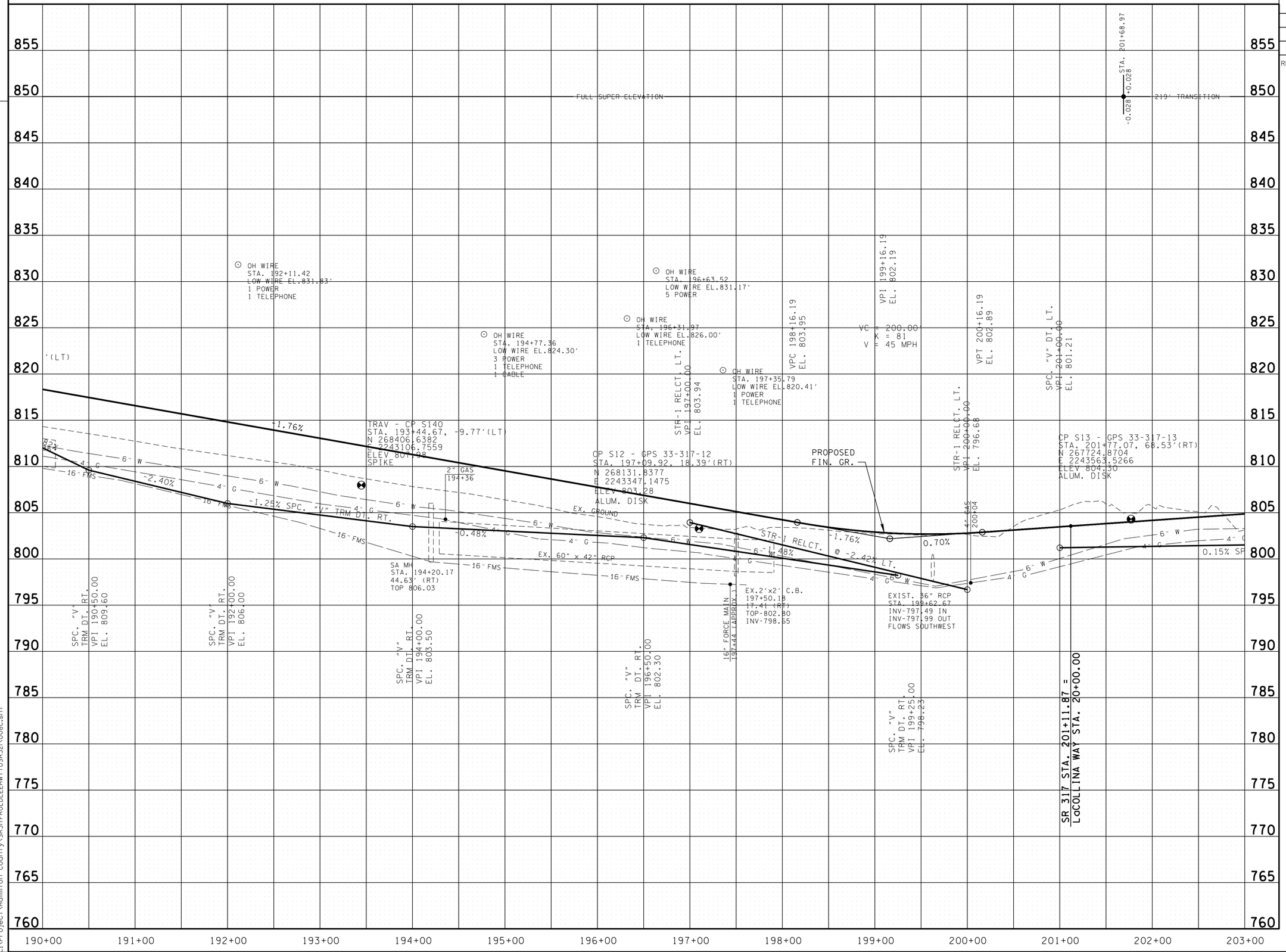
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 8C |
| CONST. | 2014 | STP/NH-317(14) | 8C |

REV. 06-14-13: ADJUSTED DRAINAGE.

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**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 190+00 TO STA. 203+00

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

8-JUN-2014 08:4
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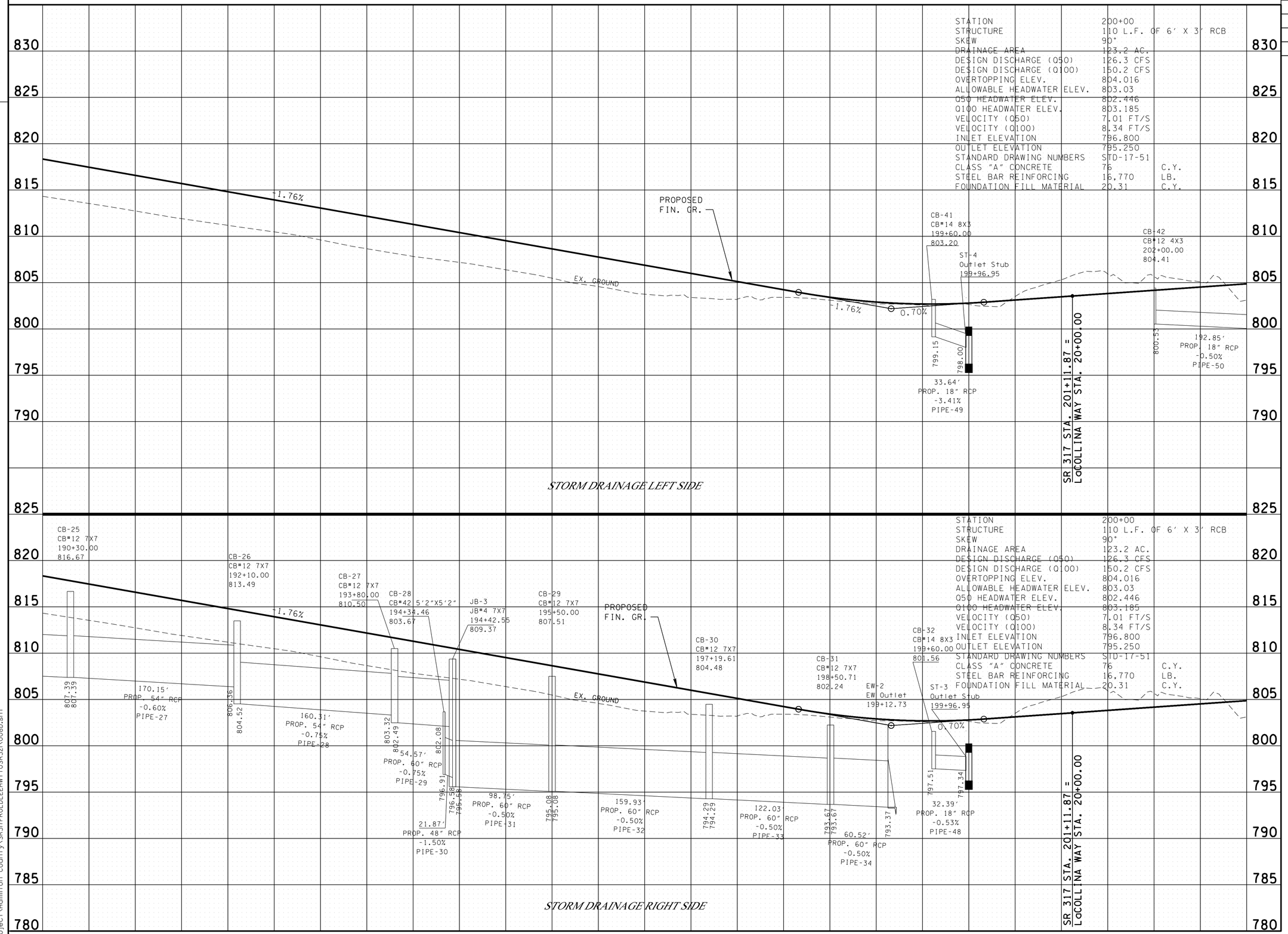
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 8D |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.190 +00 TO STA.203 +00

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

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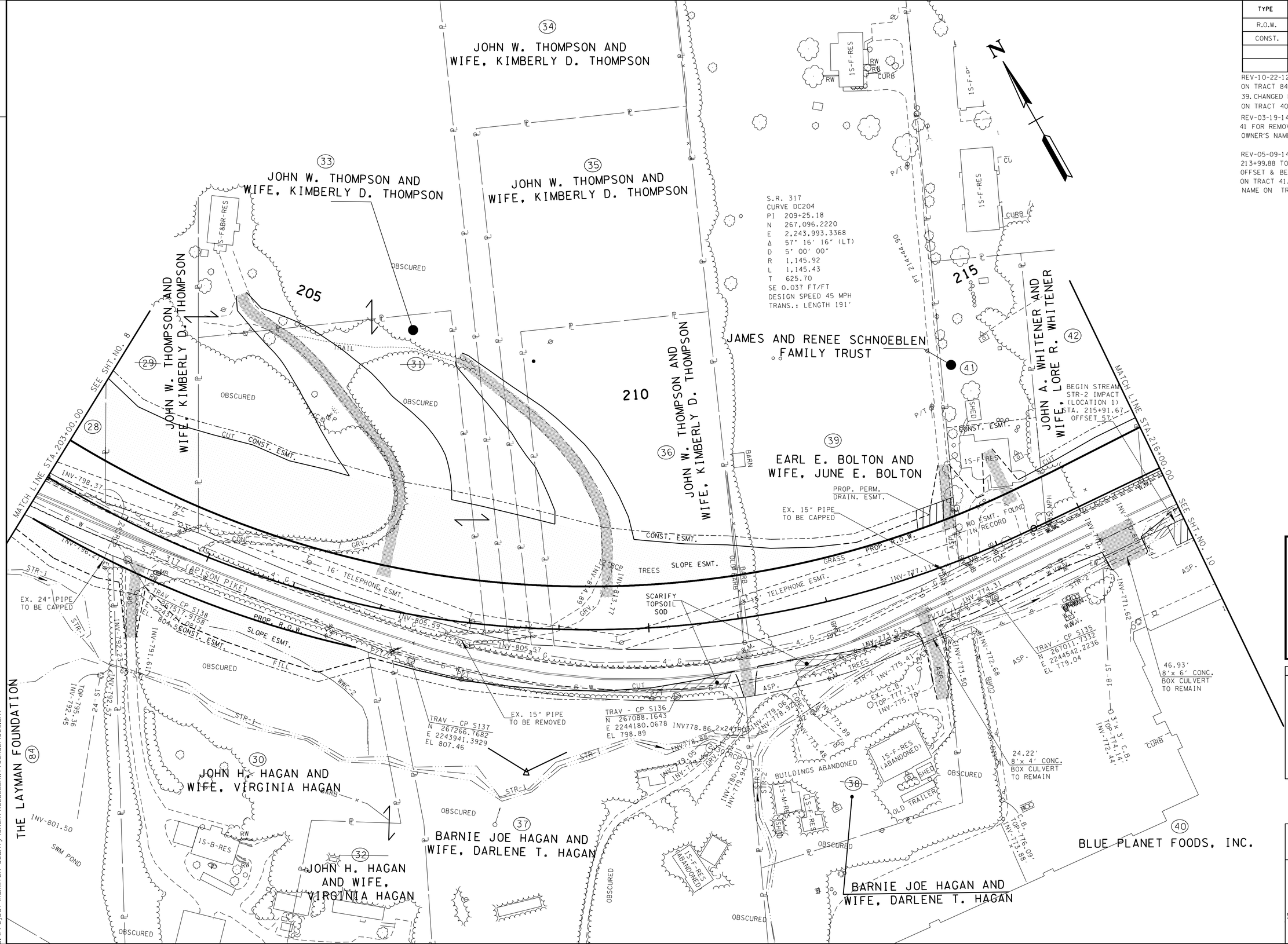
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 9 |
| CONST. | 2014 | STP/NH-317(14) | 9 |
| | | | |
| | | | |

REV-10-22-12: ELIMINATED PERM. DRAIN. ESMT. ON TRACT 84. ADDED PERM. DRAIN. ESMT. TO TRACT 39. CHANGED PROP. R.O.W. TO PERM. DRAIN. ESMT. ON TRACT 40.

REV-03-19-14: ADJUSTED CONST. ESM'T. TO TRACT 41 FOR REMOVAL OF HOUSE. CHANGED PROPERTY OWNER'S NAME ON TRACT 42.

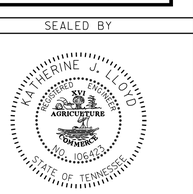
REV-05-09-14: SHIFTED PVT. DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 AND ADDED STA. OFFSET & BEARING DISTANCE TO CONST. ESM'T. ON TRACT 41. CORRECTED THE PROPERTY OWNER'S NAME ON TRACT 42.




# UNOFFICIAL SET

**NOT FOR BIDDING**

SEALED BY




COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

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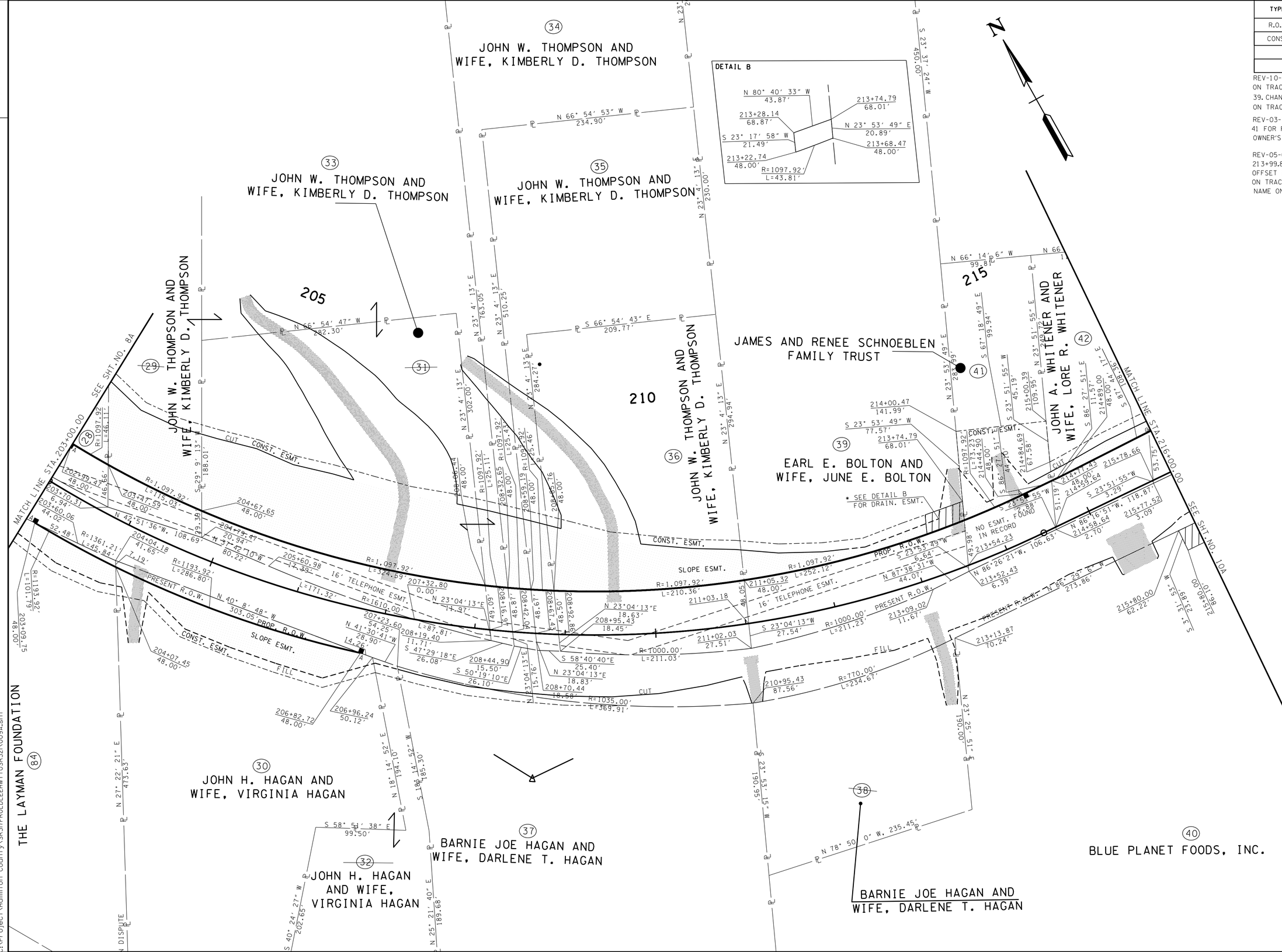
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 9A |
| CONST. | 2014 | STP/NH-317(14) | 9A |
| | | | |
| | | | |

REV-10-22-12: ELIMINATED PERM. DRAIN. ESMT. ON TRACT 84. ADDED PERM. DRAIN. ESMT. TO TRACT 39. CHANGED PROP. R.O.W. TO PERM. DRAIN. ESMT. ON TRACT 40.

REV-03-19-14: ADJUSTED CONST. ESM'T. TO TRACT 41 FOR REMOVAL OF HOUSE. CHANGED PROPERTY OWNER'S NAME ON TRACT 42.

REV-05-09-14: SHIFTED PVT. DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 AND ADDED STA. OFFSET & BEARING DISTANCE TO CONST. ESM'T. ON TRACT 41. CORRECTED THE PROPERTY OWNER'S NAME ON TRACT 42.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

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

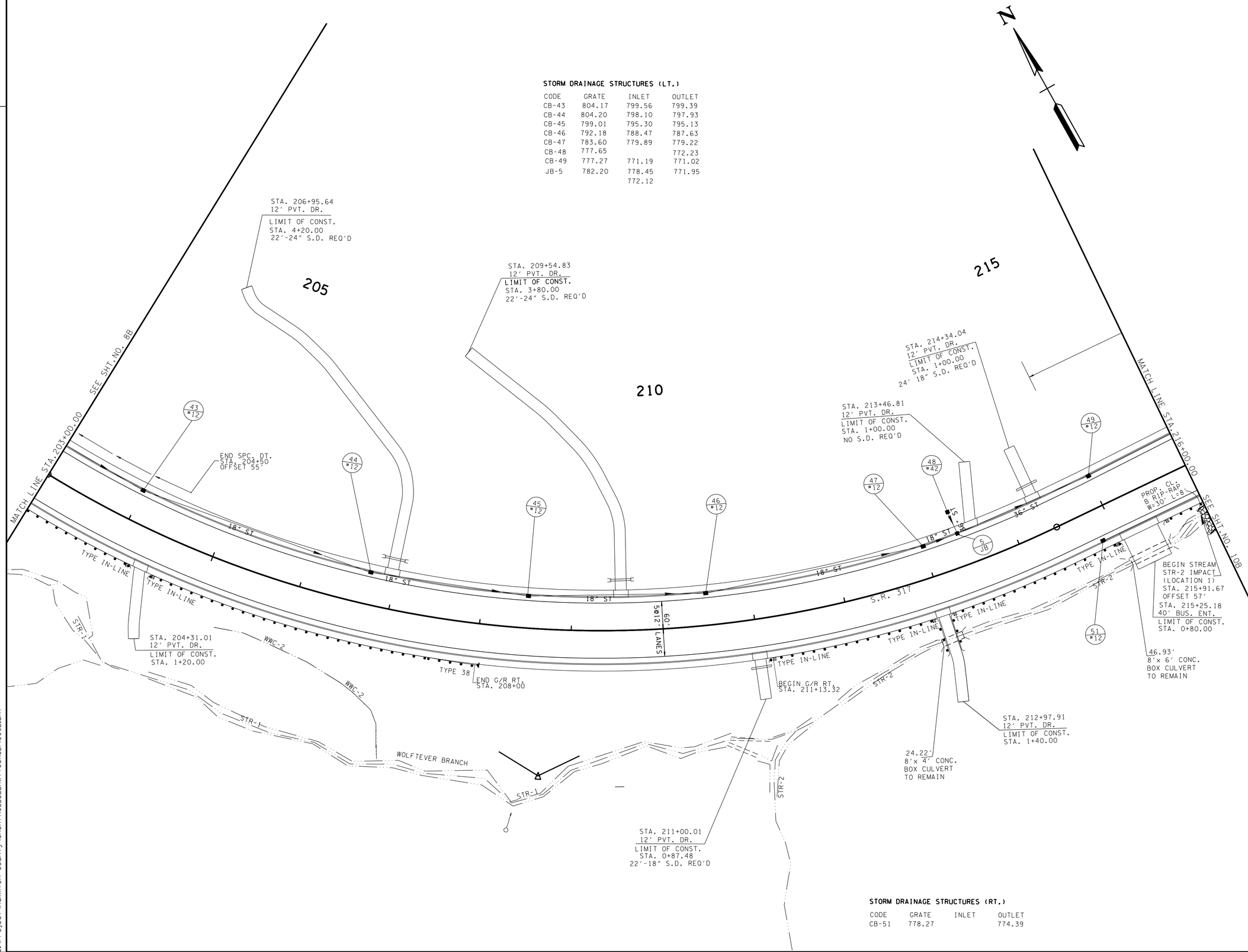
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 9B |
| CONST. | 2014 | STP/NH-317(14) | 9B |
| | | | |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.

REV. 05-09-14: SHIFTED PVT. DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 AND ADDED SIDE DRAIN.

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-43 | 804.17 | 799.56 | 799.39 |
| CB-44 | 804.20 | 798.10 | 797.93 |
| CB-45 | 799.01 | 795.30 | 795.13 |
| CB-46 | 792.18 | 788.47 | 787.63 |
| CB-47 | 783.60 | 779.89 | 779.22 |
| CB-48 | 777.65 | | 772.23 |
| CB-49 | 777.27 | 771.19 | 771.02 |
| JB-5 | 782.20 | 778.45 | 771.95 |
| | | 772.12 | |




**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-51 | 778.27 | | 774.39 |

**UNOFFICIAL SET**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

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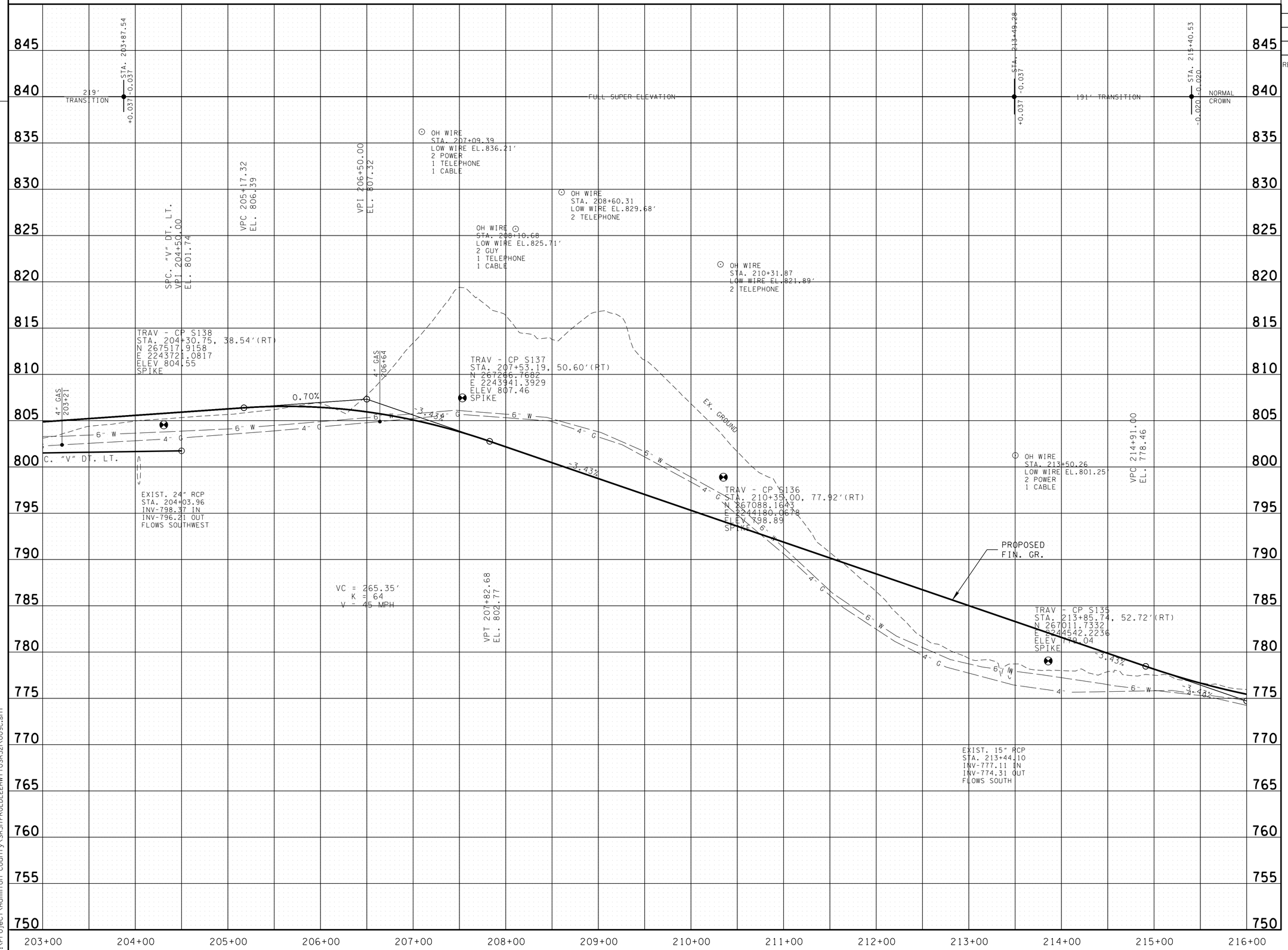
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 9C |
| CONST. | 2014 | STP/NH-317(14) | 9C |

REV. 06-14-13: ADJUSTED DRAINAGE.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 203+00 TO STA. 216+00

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

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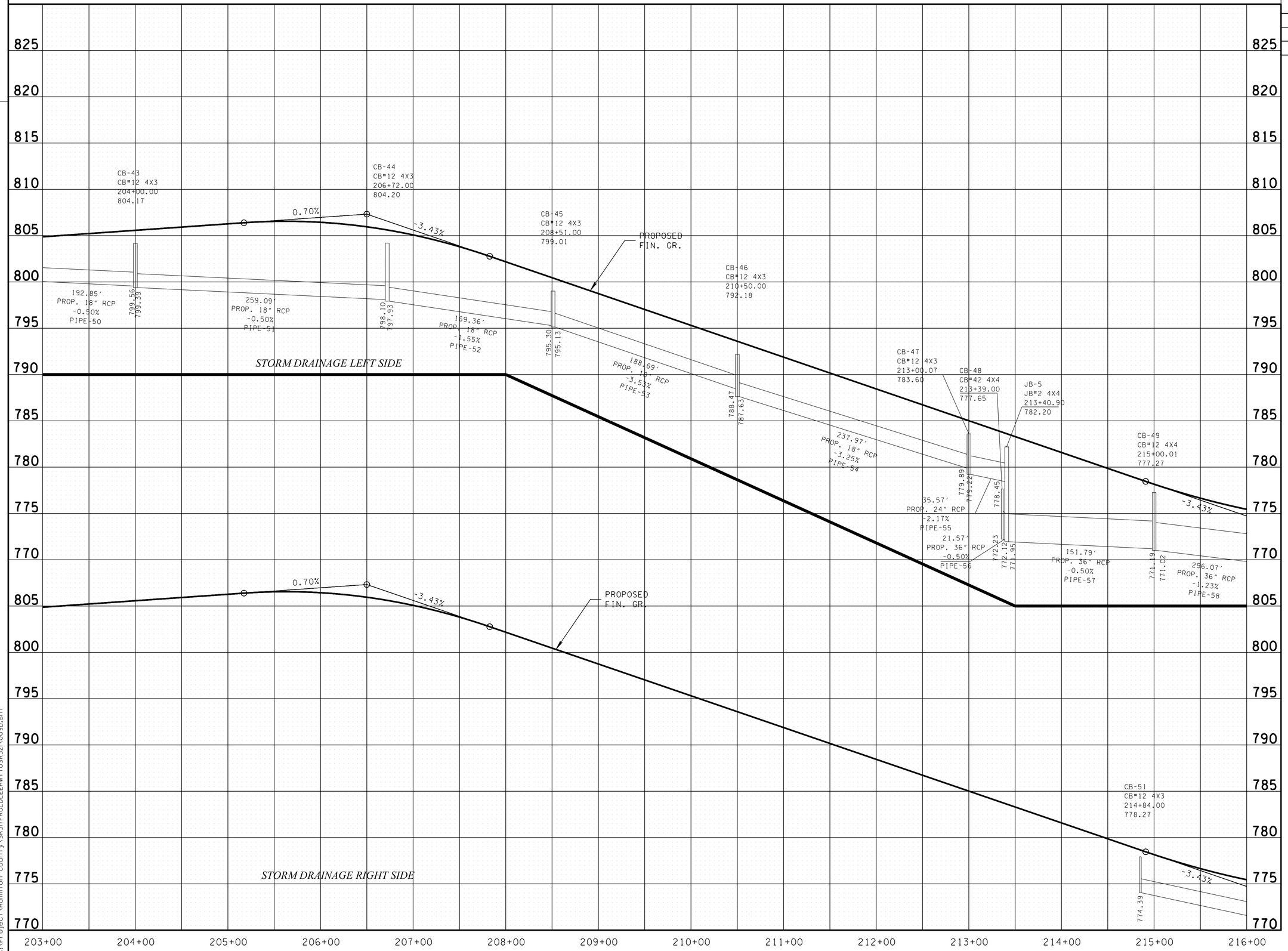
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 9D |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.203 +00 TO STA.216 +00

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

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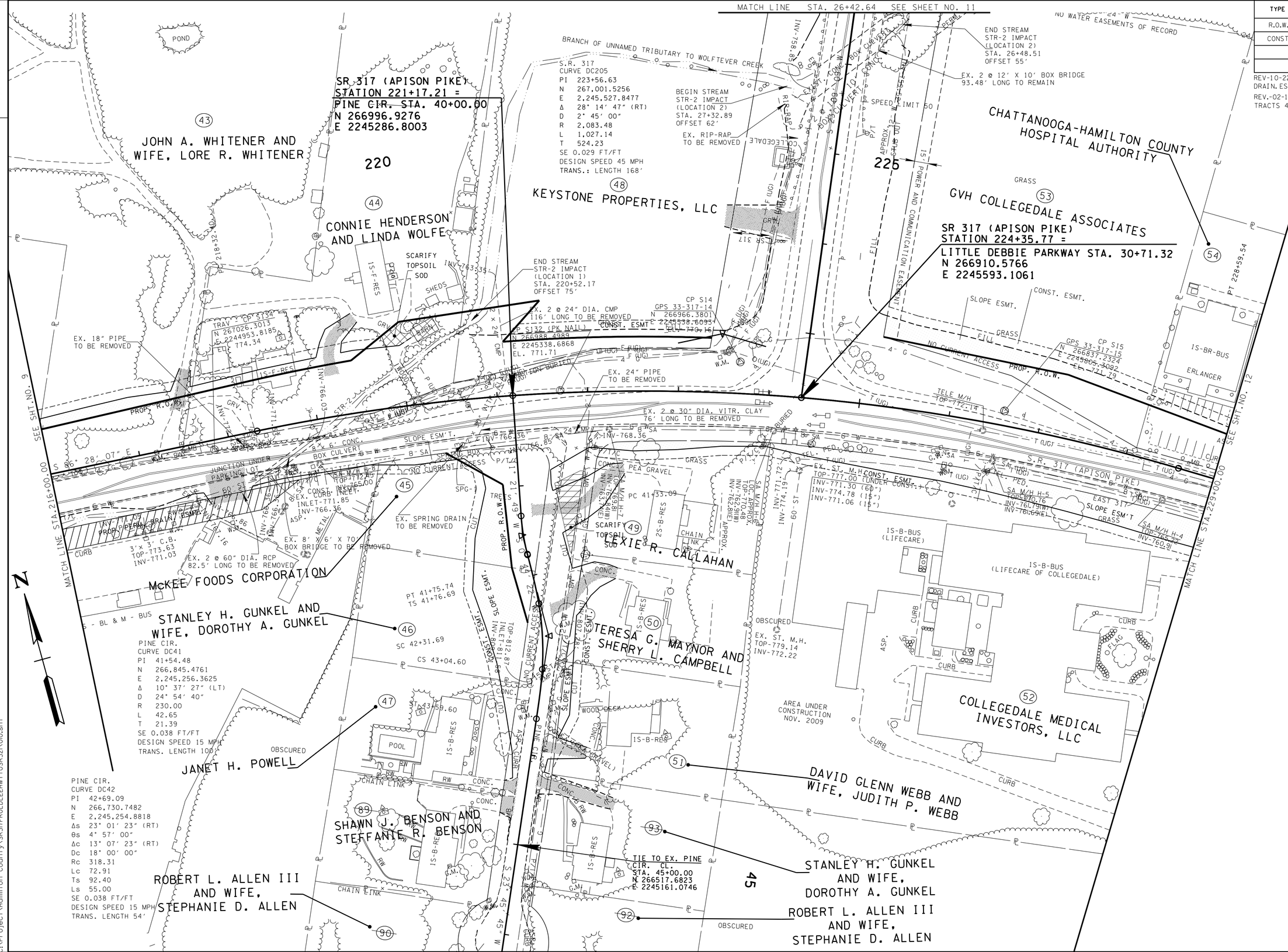
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 10 |
| CONST. | 2014 | STP/NH-317(14) | 10 |
| | | | |
| | | | |

REV-10-22-12: CHANGED PROP. R.O.W. TO PERM. DRAIN. ESMT. ON TRACT 40.

REV.-02-19-13: SHOW CONST. ESM'T LINE FOR TRACTS 49 & 52.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

8-JUN-2014 08:4
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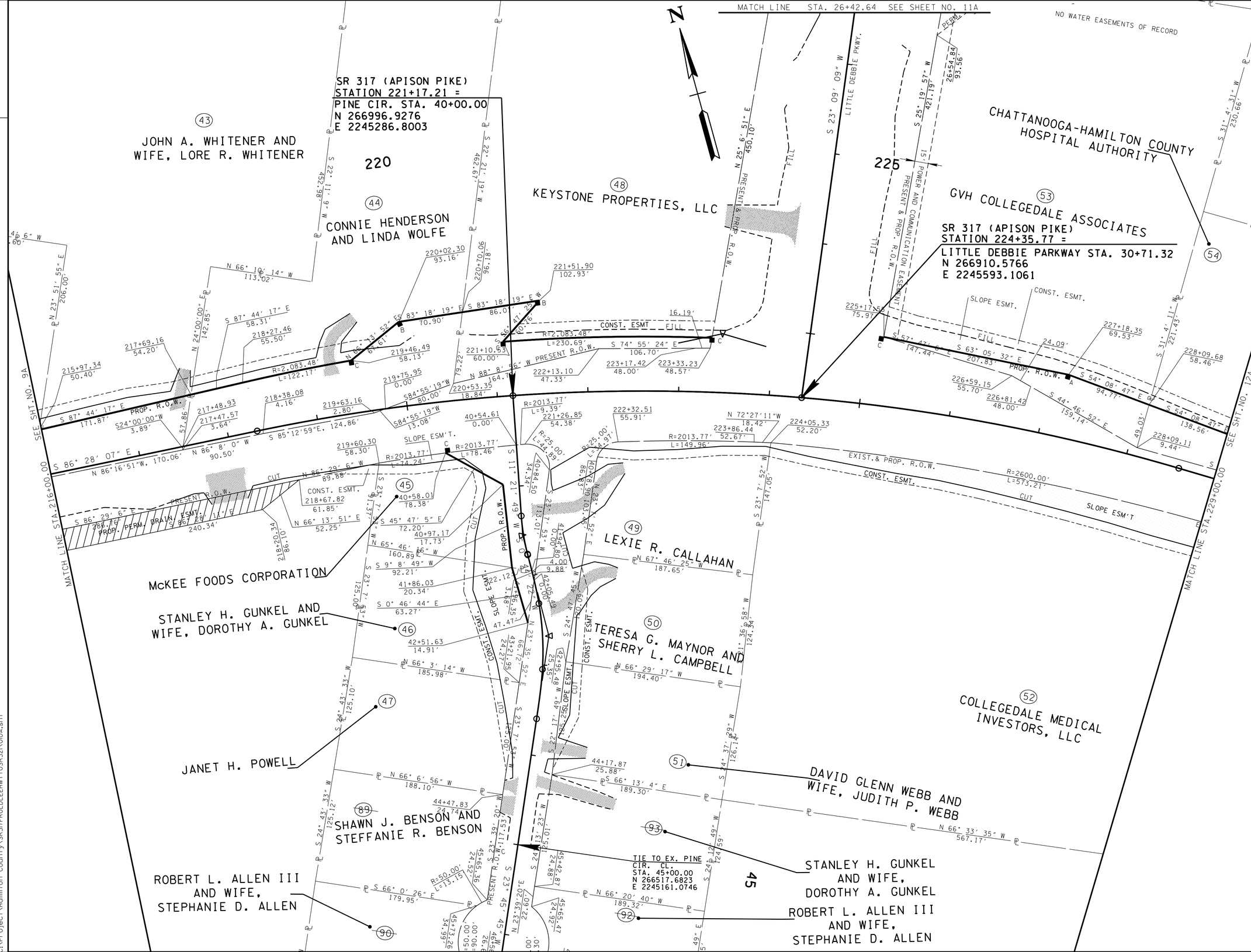
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 10A |
| CONST. | 2014 | STP/NH-317(14) | 10A |
| | | | |
| | | | |

REV-10-22-12: CHANGED PROP. R.O.W. TO PERM. DRAIN. ESMT. ON TRACT 40.

REV.-02-19-13: SHOW CONST. ESM'T LINE FOR TRACTS 49 & 52.

REV. 06-14-13: CORRECTED R.O.W. MARKERS.

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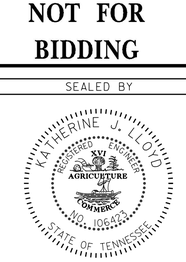


COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 10B |
| CONST. | 2014 | STP/NH-317(14) | 10B |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.

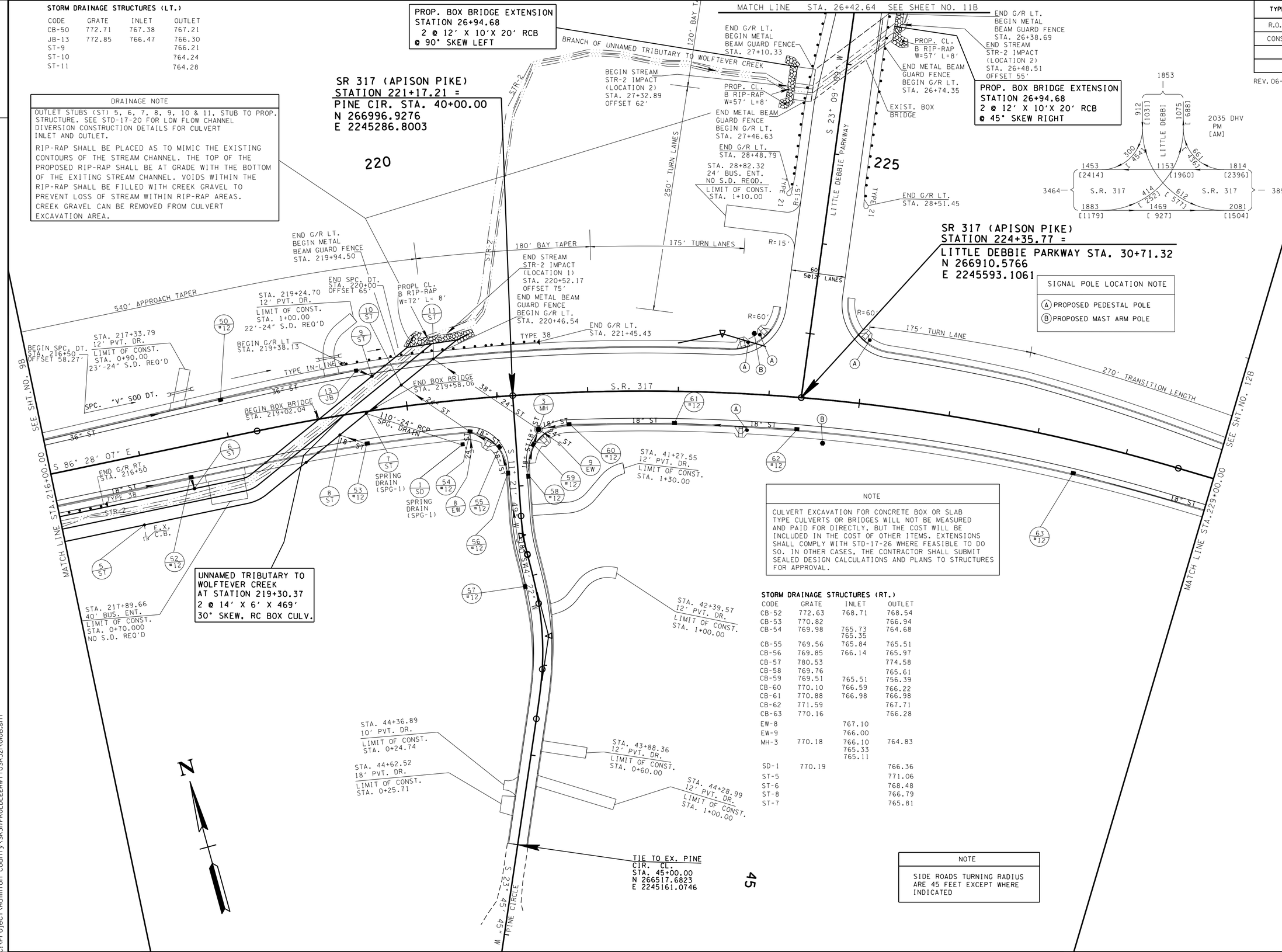
**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-50 | 772.71 | 767.38 | 767.21 |
| JB-13 | 772.85 | 766.47 | 766.30 |
| ST-9 | | | 766.21 |
| ST-10 | | | 764.24 |
| ST-11 | | | 764.28 |

**DRAINAGE NOTE**

OUTLET STUBS (ST) 5, 6, 7, 8, 9, 10 & 11, STUB TO PROP. STRUCTURE. SEE STD-17-20 FOR LOW FLOW CHANNEL DIVERSION CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET.

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXITING STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.




**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. EXTENSIONS SHALL COMPLY WITH STD-17-26 WHERE FEASIBLE TO DO SO. IN OTHER CASES, THE CONTRACTOR SHALL SUBMIT SEALED DESIGN CALCULATIONS AND PLANS TO STRUCTURES FOR APPROVAL.

**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-52 | 772.63 | 768.71 | 768.54 |
| CB-53 | 770.82 | | 766.94 |
| CB-54 | 769.98 | 765.73<br>765.35 | 764.68 |
| CB-55 | 769.56 | 765.84 | 765.51 |
| CB-56 | 769.85 | 766.14 | 765.97 |
| CB-57 | 780.53 | | 774.58 |
| CB-58 | 769.76 | | 765.61 |
| CB-59 | 769.51 | 765.51 | 756.39 |
| CB-60 | 770.10 | 766.59 | 766.22 |
| CB-61 | 770.88 | 766.98 | 766.98 |
| CB-62 | 771.59 | | 767.71 |
| CB-63 | 770.16 | | 766.28 |
| EW-8 | | 767.10 | |
| EW-9 | | 766.00 | |
| MH-3 | 770.18 | 766.10<br>765.33<br>765.11 | 764.83 |
| SD-1 | 770.19 | | 766.36 |
| ST-5 | | | 771.06 |
| ST-6 | | | 768.48 |
| ST-8 | | | 766.79 |
| ST-7 | | | 765.81 |

**NOTE**

SIDE ROADS TURNING RADIUS ARE 45 FEET EXCEPT WHERE INDICATED

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 10C |
| CONST. | 2014 | STP/NH-317(14) | 10C |

REV. 06-14-13: ADJUSTED DRAINAGE.

# DRAINAGE/ HYDRAULIC DATA FOR BOX CULVERT

STATION 218+80.00 STREAM NAME BRANCH OF TRIBUTARY TO WOLFTEVER CK.

STREAM BED LINING: ROCK & GRAVEL

DIRECTION OF FLOW LT. (NORTH)

DRAINAGE AREA 1200 ACRES ; ( ) FLAT ( ) ROLLING (X) HILLY ( ) MTNS.

PRESENT STRUCTURE: SPAN 8 FT. HEIGHT 6 FT STRUCTURE CONCRETE SUPERSTRUCTURE CONCRETE

BEGIN STATION-OFFSET 218+43.38 - 49.35 RT END STATION-OFFSET 219+07.07 - 18.70 LT.

LOW BEAM ELEV. 772.28′ LOCATION. INLET

INLET INVERT ELEV. 766.36′ OUTLET INVERT. 766.03′

NORMAL WATER ELEV. 765.00′ EXTREME HIGHWATER ELEV. 770′ DATE. OCT. 2009

HOW OBTAINED. STAINING

BACKWATER FROM WHAT STREAM (IF APPLICABLE): WOLFTEVER CREEK

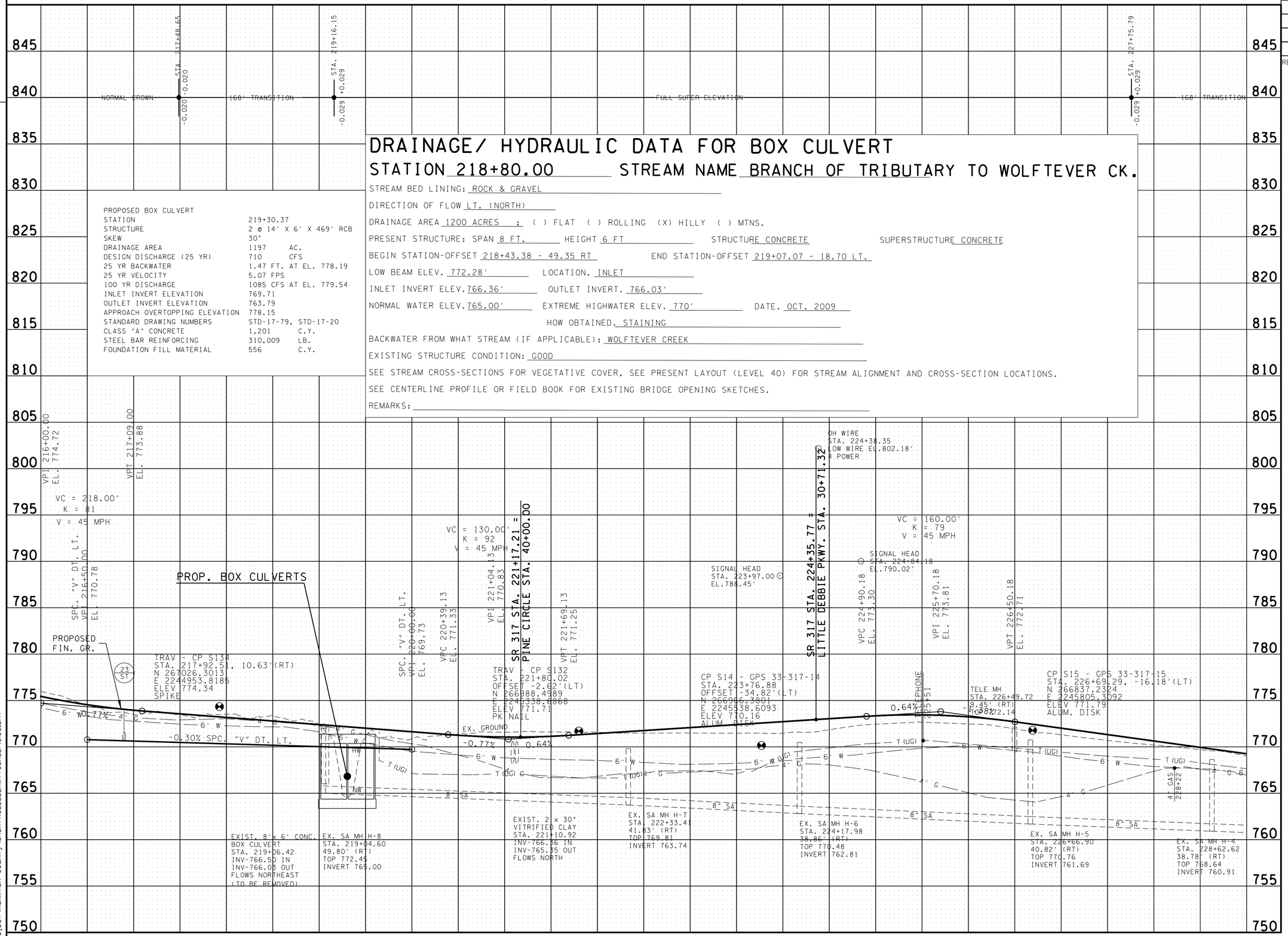
EXISTING STRUCTURE CONDITION: GOOD

SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER, SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.

SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.

REMARKS:

| PROPOSED BOX CULVERT | | |
|---|---|---|
| STATION | 219+30.37 | |
| STRUCTURE | 2 @ 14′ X 6′ X 469′ RCB | |
| SKEW | 30° | |
| DRAINAGE AREA | 1197 | AC. |
| DESIGN DISCHARGE (25 YR) | 710 | CFS |
| 25 YR BACKWATER | 1.47 FT. AT EL. 778.19 | |
| 25 YR VELOCITY | 5.07 FPS | |
| 100 YR DISCHARGE | 1085 CFS AT EL. 779.54 | |
| INLET INVERT ELEVATION | 769.71 | |
| OUTLET INVERT ELEVATION | 763.79 | |
| APPROACH OVERTOPPING ELEVATION | 778.15 | |
| STANDARD DRAWING NUMBERS | STD-17-79, STD-17-20 | |
| CLASS "A" CONCRETE | 1,201 | C.Y. |
| STEEL BAR REINFORCING | 310,009 | LB. |
| FOUNDATION FILL MATERIAL | 556 | C.Y. |

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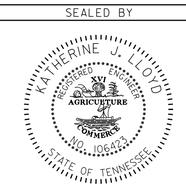


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50′ HORIZ.
1"= 5′ VERT.

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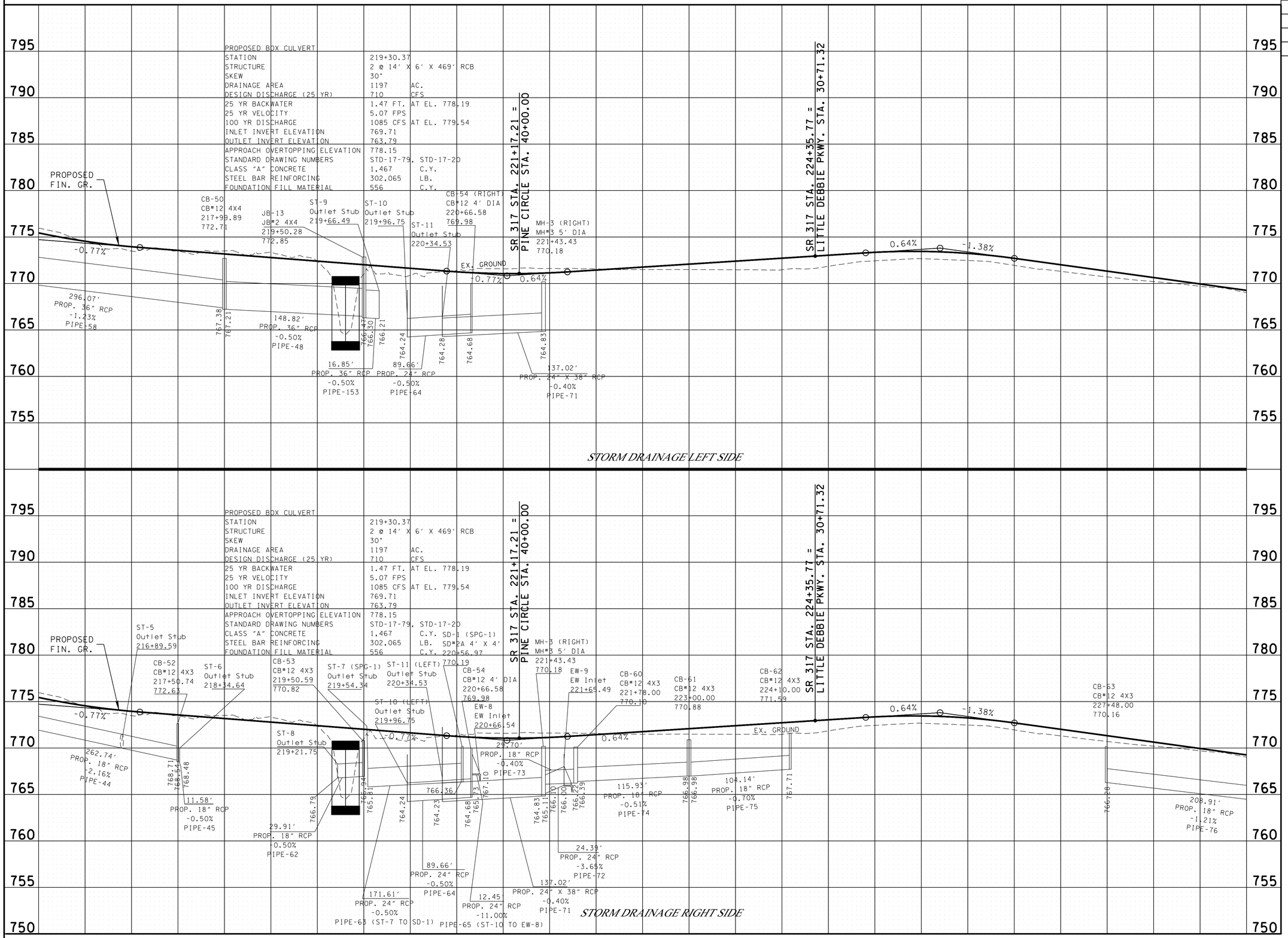
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 10D |




**UNOFFICIAL SET**

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SEALED BY

KATHERINE J. LLOYD
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XVI
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COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.216 +00 TO STA.229 +00

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

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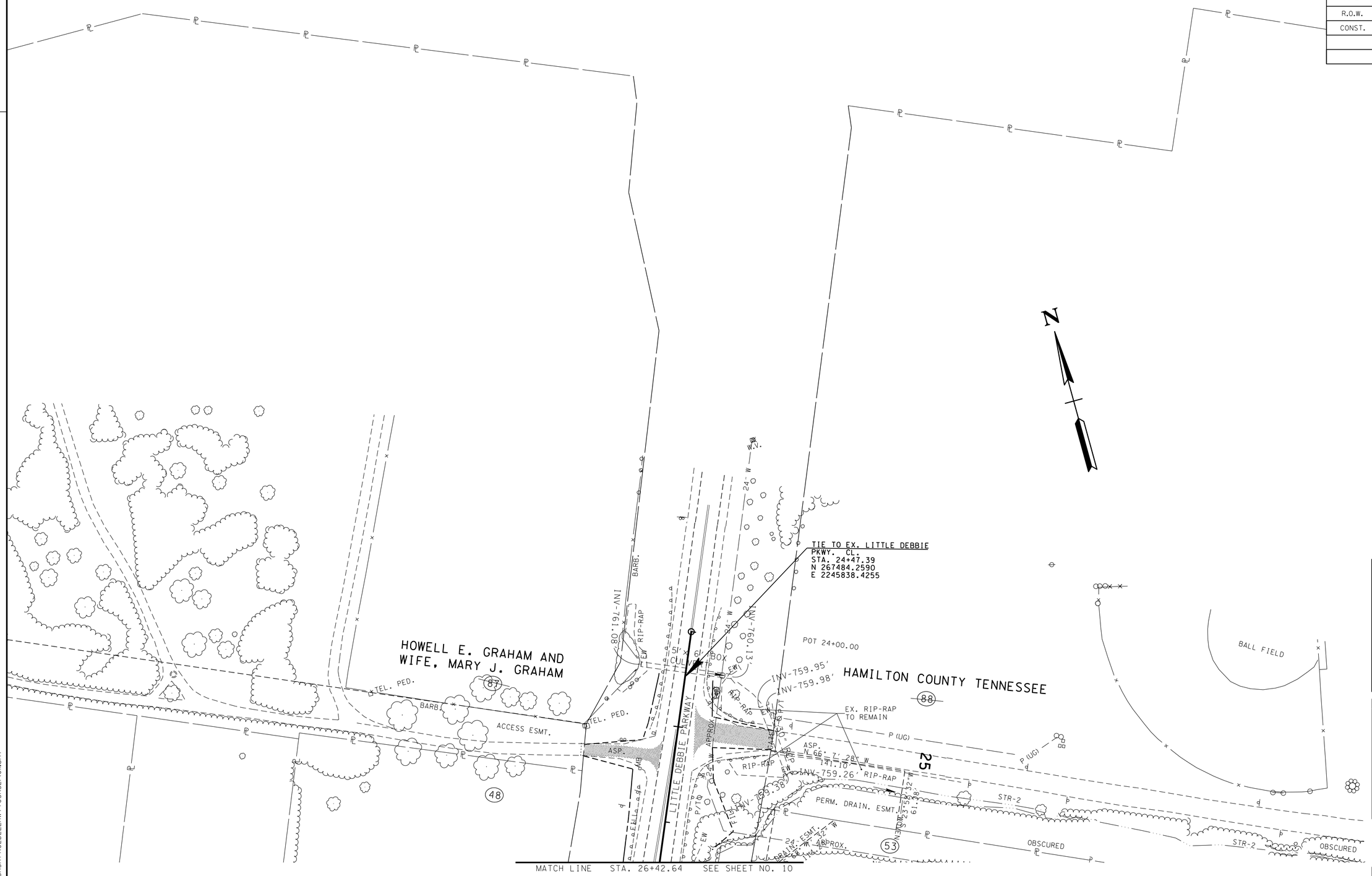
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 11 |
| CONST. | 2014 | STP/NH-317(14) | 11 |
| | | | |
| | | | |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 26+42 TO STA. 24+47

SCALE: 1" = 50'

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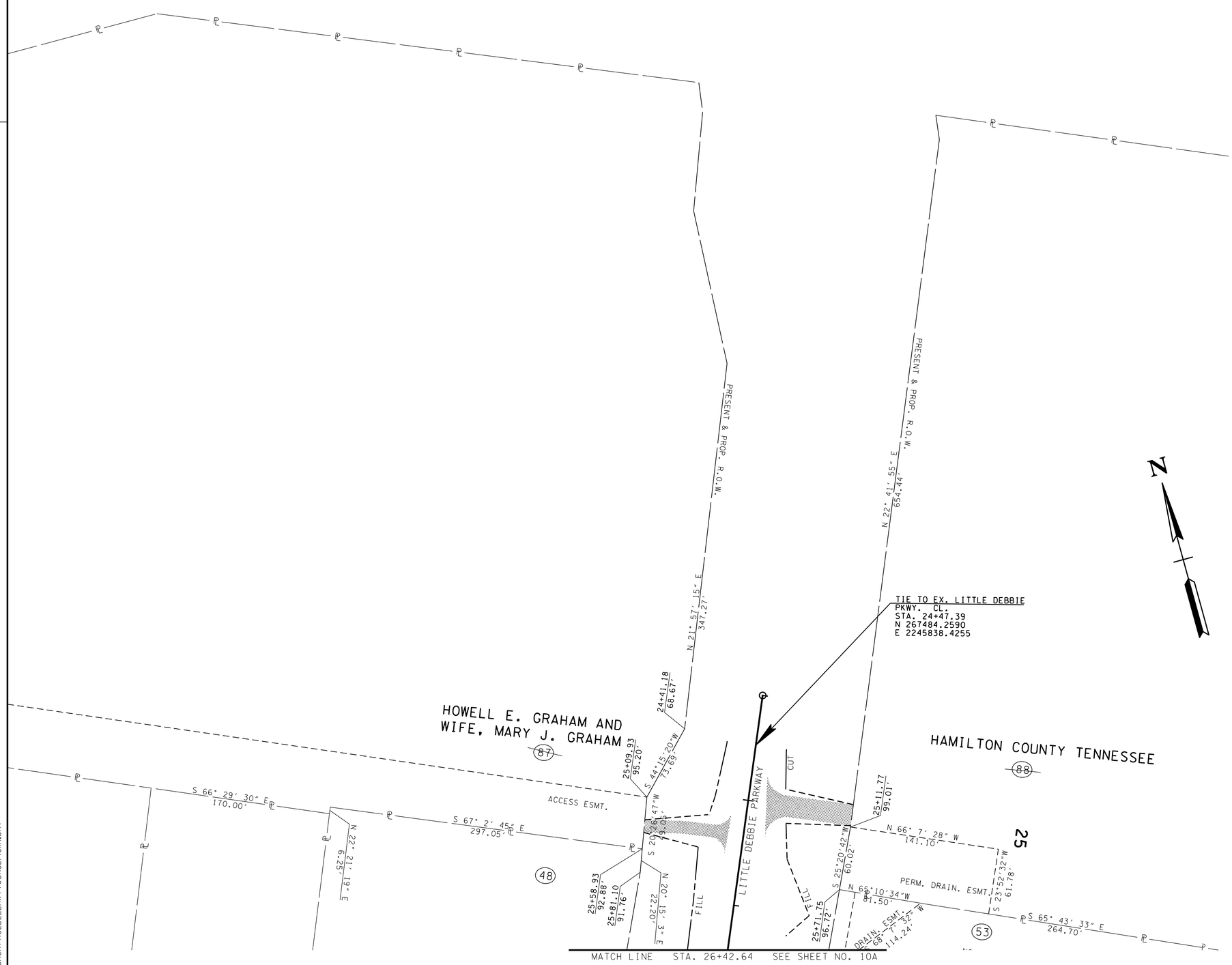
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 11A |
| CONST. | 2014 | STP/NH-317(14) | 11A |
| | | | |
| | | | |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 26+42 TO STA. 24+47

SCALE: 1"= 50'

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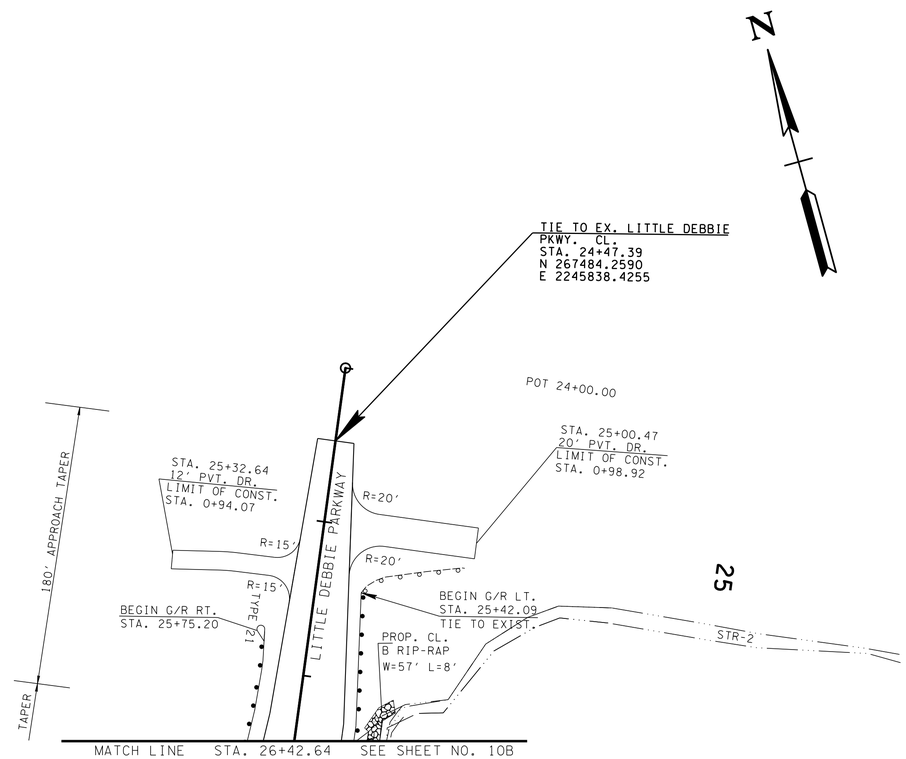
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 11B |
| CONST. | 2014 | STP/NH-317(14) | 11B |
| | | | |
| | | | |

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

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**UNOFFICIAL SET**

**NOT FOR BIDDING**

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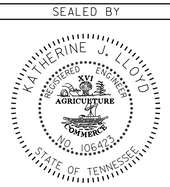


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 26+42 TO STA. 24+47

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 12 |
| CONST. | 2014 | STP/NH-317(14) | 12 |
| | | | |
| | | | |

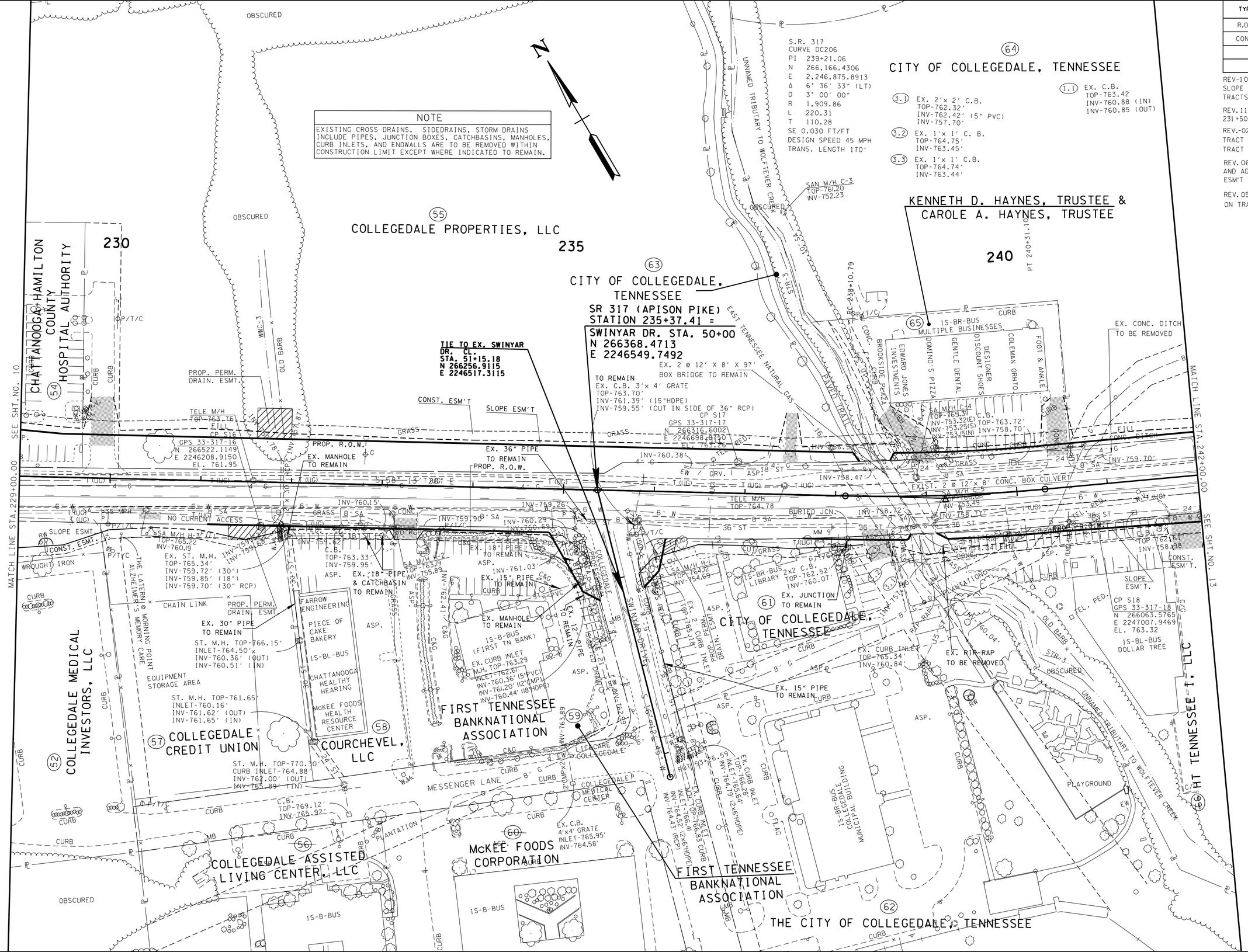
REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT., SLOPE ESMT. TO TRACT 57 & CONST. ESMT. TO TRACTS 57 & 58.

REV. 11-28-12: CORRECTED SLOPE OFFSET AT STA. 231+50 & STA. 241+00 TO STA. 242+00 RIGHT.

REV.-02-19-13: SHOW CONST. ESM'T LINE FOR TRACT 52. ADJUSTED CONST. ESM'T LINE FOR TRACT 57.

REV. 06-14-13: ELIMINATED PERM. DRAINAGE ESM'T AND ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T ON TRACT 59.

REV. 05-09-14: ADDED 24' CURB & SIDEWALK CUT ON TRACT 57 AT STATION 230+45.00.

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KATHERINE J. LLOYD
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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

8-JUN-2014 08:14
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 12A |
| CONST. | 2014 | STP/NH-317(14) | 12A |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED PERM. DRAIN. ESMT., SLOPE ESMT. TO TRACT 57 & CONST. ESMT. TO TRACTS 57 & 58.

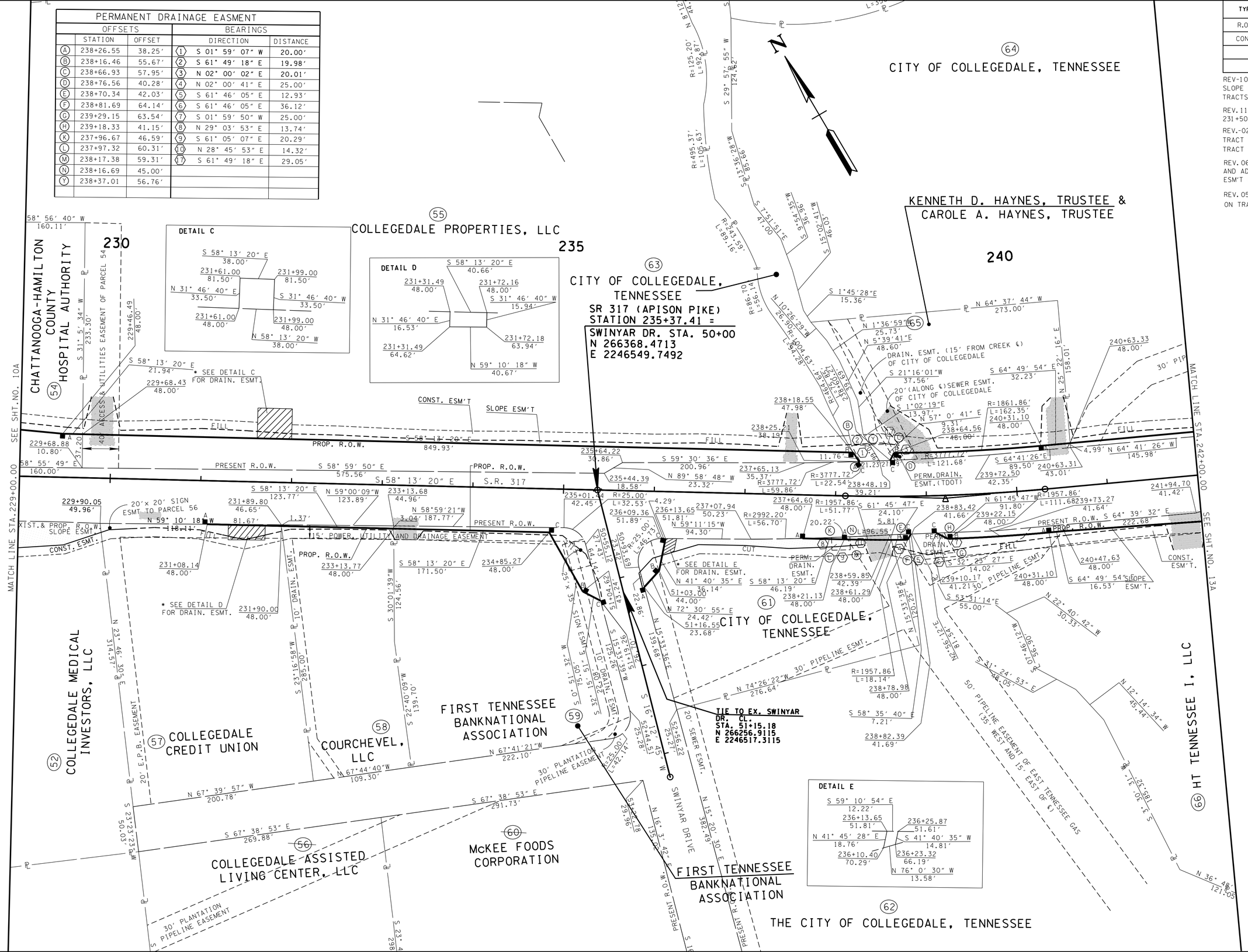
REV. 11-28-12: CORRECTED SLOPE OFFSET AT STA. 231+50 & STA. 241+00 TO STA. 242+00 RIGHT.

REV.-02-19-13: SHOW CONST. ESM'T LINE FOR TRACT 52. ADJUSTED CONST. ESM'T LINE FOR TRACT 57.

REV. 06-14-13: ELIMINATED PERM. DRAINAGE ESM'T AND ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T ON TRACT 59. CORRECTED R.O.W. MARKERS.

REV. 05-09-14: ADDED 24' CURB & SIDEWALK CUT ON TRACT 57 AT STATION 230+45.00.

| PERMANENT DRAINAGE EASEMENT | | | | |
|---|---|---|---|---|
| OFFSETS | | | BEARINGS | |
| | STATION | OFFSET | DIRECTION | DISTANCE |
| (A) | 238+26.55 | 38.25' | (1) S 01° 59' 07" W | 20.00' |
| (B) | 238+16.46 | 55.67' | (2) S 61° 49' 18" E | 19.98' |
| (C) | 238+66.93 | 57.95' | (3) N 02° 00' 02" E | 20.01' |
| (D) | 238+76.56 | 40.28' | (4) N 02° 00' 41" E | 25.00' |
| (E) | 238+70.34 | 42.03' | (5) S 61° 46' 05" E | 12.93' |
| (F) | 238+81.69 | 64.14' | (6) S 61° 46' 05" E | 36.12' |
| (G) | 239+29.15 | 63.54' | (7) S 01° 59' 50" W | 25.00' |
| (H) | 239+18.33 | 41.15' | (8) N 29° 03' 53" E | 13.74' |
| (K) | 237+96.67 | 46.59' | (9) S 61° 05' 07" E | 20.29' |
| (L) | 237+97.32 | 60.31' | (10) N 28° 45' 53" E | 14.32' |
| (M) | 238+17.38 | 59.31' | (17) S 61° 49' 18" E | 29.05' |
| (N) | 238+16.69 | 45.00' | | |
| (Y) | 238+37.01 | 56.76' | | |
| | | | | |

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

28-JUN-2014 08:14
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 12B |
| CONST. | 2014 | STP/NH-317(14) | 12B |
| | | | |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.

REV. 05-09-14: ADDED 24' CURB & SIDEWALK CUT AT STATION 230+45.00 RIGHT.

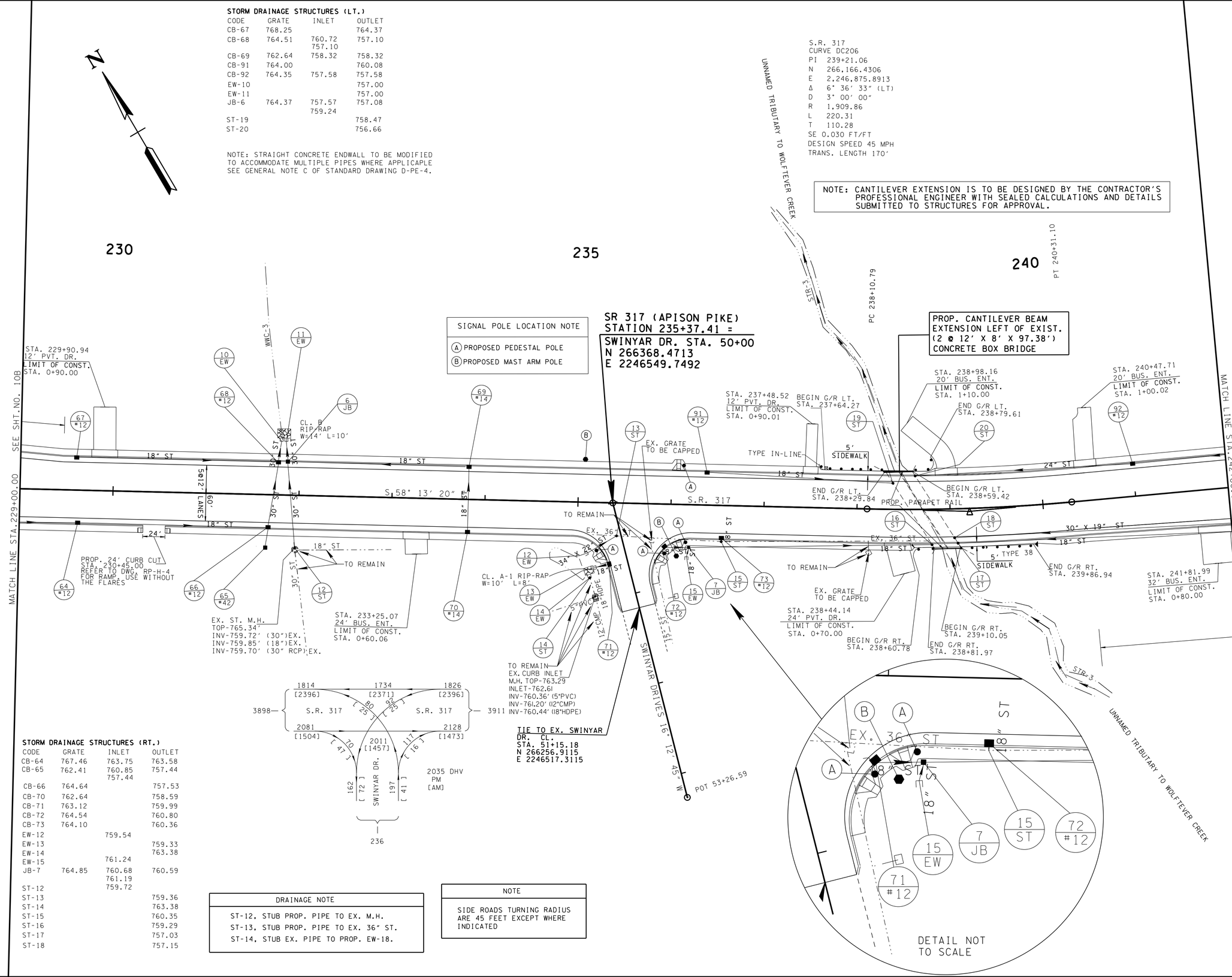
**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-67 | 768.25 | | 764.37 |
| CB-68 | 764.51 | 760.72<br>757.10 | 757.10 |
| CB-69 | 762.64 | 758.32 | 758.32 |
| CB-91 | 764.00 | | 760.08 |
| CB-92 | 764.35 | 757.58 | 757.58 |
| EW-10 | | | 757.00 |
| EW-11 | | | 757.00 |
| JB-6 | 764.37 | 757.57<br>759.24 | 757.08 |
| ST-19 | | | 758.47 |
| ST-20 | | | 756.66 |

NOTE: STRAIGHT CONCRETE ENDWALL TO BE MODIFIED TO ACCOMMODATE MULTIPLE PIPES WHERE APPLICAPLE SEE GENERAL NOTE C OF STANDARD DRAWING D-PE-4.

S.R. 317
CURVE DC206
PI 239+21.06
N 266,166.4306
E 2,246,875.8913
Δ 6° 36' 33" (LT)
D 3° 00' 00"
R 1,909.86
L 220.31
T 110.28
SE 0.030 FT/FT
DESIGN SPEED 45 MPH
TRANS. LENGTH 170'

NOTE: CANTILEVER EXTENSION IS TO BE DESIGNED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER WITH SEALED CALCULATIONS AND DETAILS SUBMITTED TO STRUCTURES FOR APPROVAL.




**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-64 | 767.46 | 763.75 | 763.58 |
| CB-65 | 762.41 | 760.85<br>757.44 | 757.44 |
| CB-66 | 764.64 | | 757.53 |
| CB-70 | 762.64 | | 758.59 |
| CB-71 | 763.12 | | 759.99 |
| CB-72 | 764.54 | | 760.80 |
| CB-73 | 764.10 | | 760.36 |
| EW-12 | | 759.54 | |
| EW-13 | | | 759.33 |
| EW-14 | | | 763.38 |
| EW-15 | | 761.24 | |
| JB-7 | 764.85 | 760.68<br>761.19 | 760.59 |
| ST-12 | | 759.72 | |
| ST-13 | | | 759.36 |
| ST-14 | | | 763.38 |
| ST-15 | | | 760.35 |
| ST-16 | | | 759.29 |
| ST-17 | | | 757.03 |
| ST-18 | | | 757.15 |

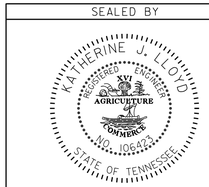
| DRAINAGE NOTE |
|---|
| ST-12, STUB PROP. PIPE TO EX. M.H.<br>ST-13, STUB PROP. PIPE TO EX. 36" ST.<br>ST-14, STUB EX. PIPE TO PROP. EW-18. |

| NOTE |
|---|
| SIDE ROADS TURNING RADIUS ARE 45 FEET EXCEPT WHERE INDICATED |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

20-JUN-2014 14:12
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 12C |
| CONST. | 2014 | STP/NH-317(14) | 12C |

REV. 06-14-13: ADJUSTED DRAINAGE.

# DRAINAGE/ HYDRAULIC DATA FOR BRIDGE

## STATION 238+81.38 STREAM NAME TRIBUTARY TO WOLFTEVER CK.

STREAM BED LINING: ROCK & GRAVEL

DIRECTION OF FLOW LT. (NORTH)

DRAINAGE AREA 1405 ACRES ; ( ) FLAT (X) ROLLING ( ) HILLY ( ) MTNS.

PRESENT STRUCTURE: SPAN 2 @ 12 FT. HEIGHT 8' STRUCTURE CONCRETE SUPERSTRUCTURE CONCRETE

BEGIN STATION-OFFSET 239+07.18 - 42.49 RT END STATION-OFFSET 238+55.68 - 40.21 LT.

LOW BEAM ELEV. 765.29' LOCATION. INLET

INLET INVERT ELEV. 757.04' OUTLET INVERT. 756.53'

NORMAL WATER ELEV. 757.16' EXTREME HIGHWATER ELEV. 762.76' DATE. OCT. 2009

HOW OBTAINED. DEBRIS IN TREE

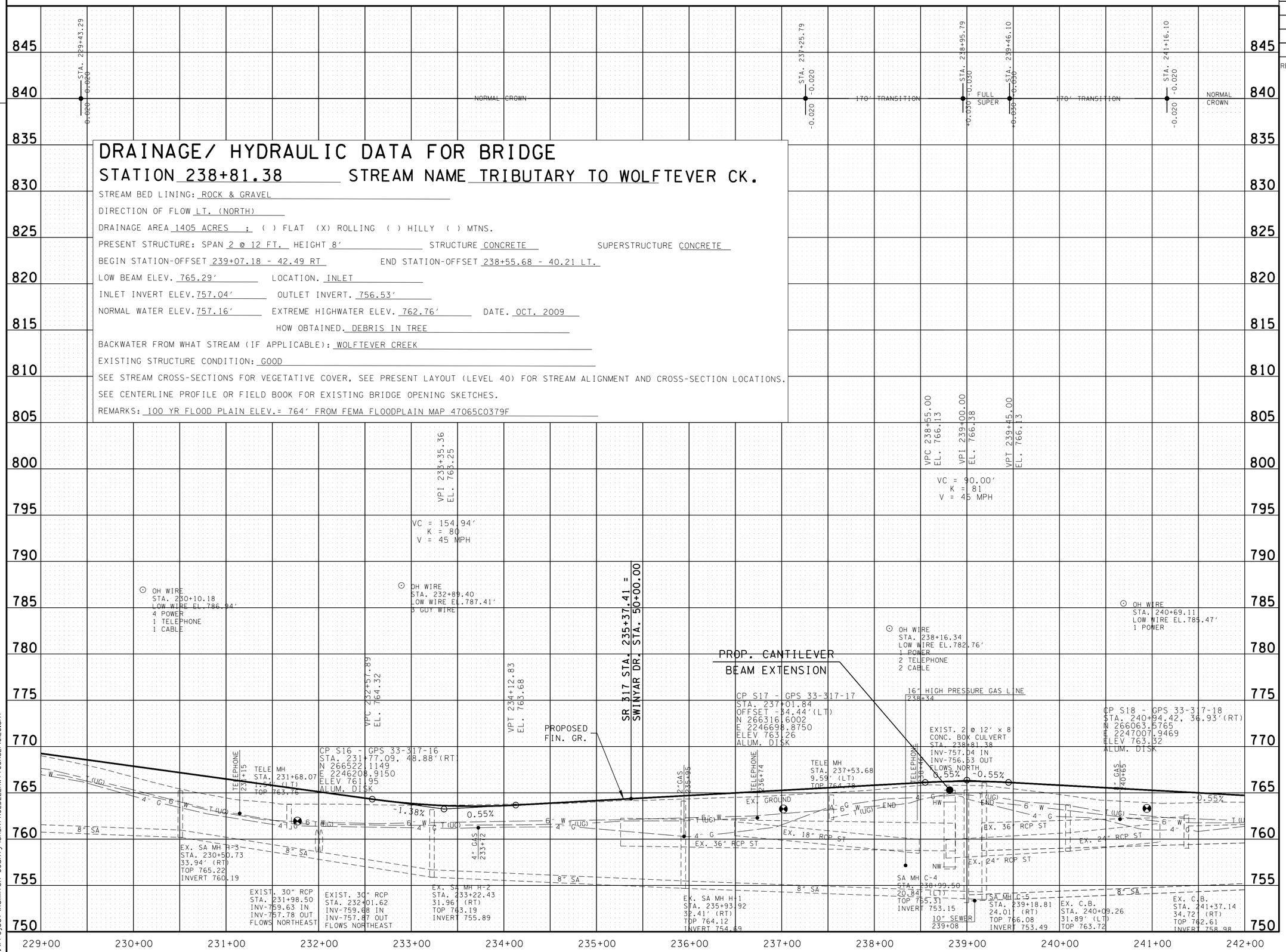
BACKWATER FROM WHAT STREAM (IF APPLICABLE): WOLFTEVER CREEK

EXISTING STRUCTURE CONDITION: GOOD

SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER, SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.

SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.

REMARKS: 100 YR FLOOD PLAIN ELEV.= 764' FROM FEMA FLOODPLAIN MAP 47065C0379F




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 229+00 TO STA. 242+00

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

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 12C |
| CONST. | 2014 | STP/NH-317(14) | 12C |

REV. 06-14-13: ADJUSTED DRAINAGE.

# DRAINAGE/ HYDRAULIC DATA FOR BRIDGE

## STATION 238+81.38 STREAM NAME TRIBUTARY TO WOLFTEVER CK.

STREAM BED LINING: ROCK & GRAVEL

DIRECTION OF FLOW LT. (NORTH)

DRAINAGE AREA 1405 ACRES ; ( ) FLAT (X) ROLLING ( ) HILLY ( ) MTNS.

PRESENT STRUCTURE: SPAN 2 @ 12 FT. HEIGHT 8' STRUCTURE CONCRETE SUPERSTRUCTURE CONCRETE

BEGIN STATION-OFFSET 239+07.18 - 42.49 RT END STATION-OFFSET 238+55.68 - 40.21 LT.

LOW BEAM ELEV. 765.29' LOCATION. INLET

INLET INVERT ELEV. 757.04' OUTLET INVERT. 756.53'

NORMAL WATER ELEV. 757.16' EXTREME HIGHWATER ELEV. 762.76' DATE. OCT. 2009

HOW OBTAINED. DEBRIS IN TREE

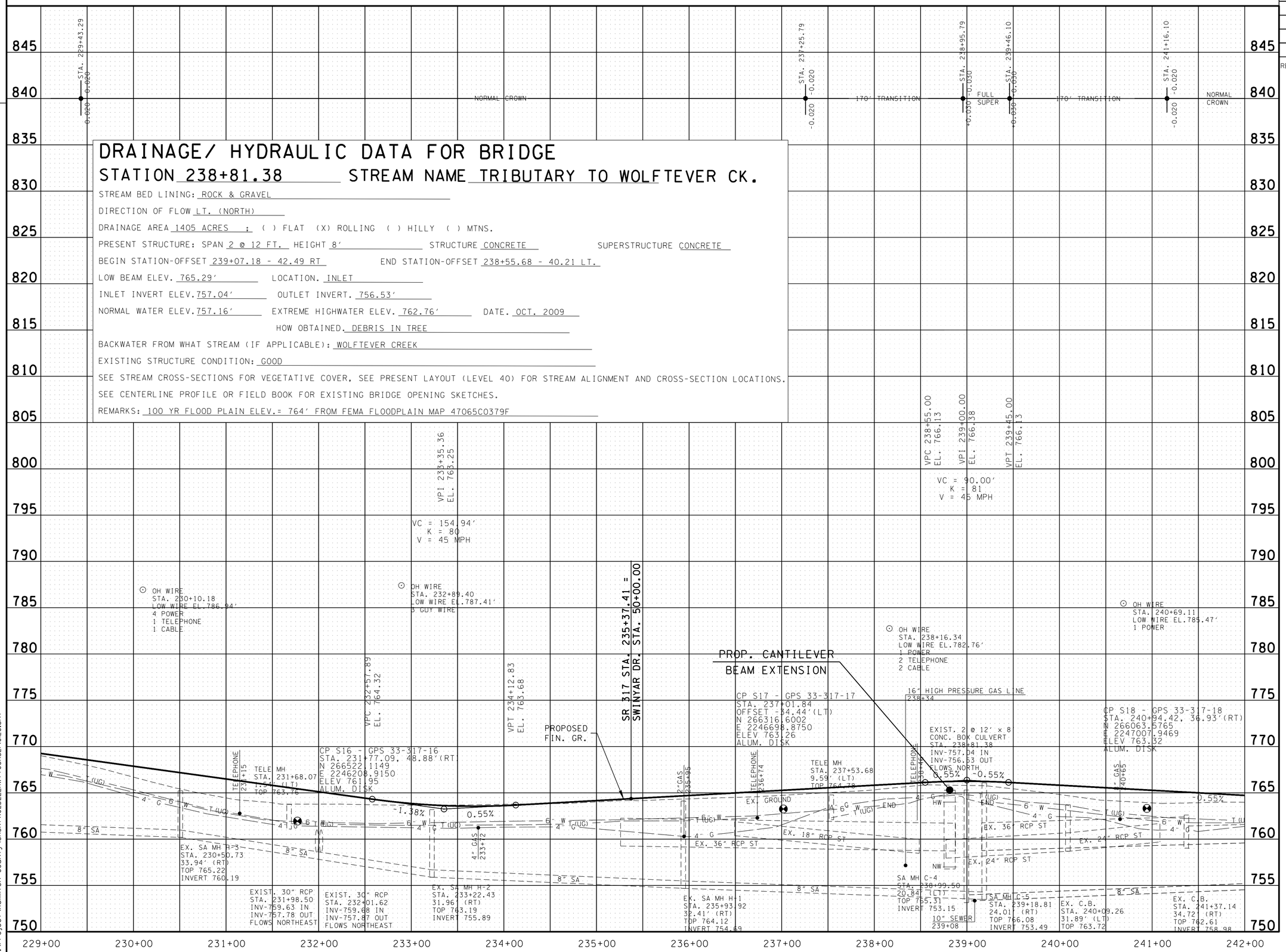
BACKWATER FROM WHAT STREAM (IF APPLICABLE): WOLFTEVER CREEK

EXISTING STRUCTURE CONDITION: GOOD

SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER, SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.

SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.

REMARKS: 100 YR FLOOD PLAIN ELEV.= 764' FROM FEMA FLOODPLAIN MAP 47065C0379F

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STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 229+00 TO STA. 242+00

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

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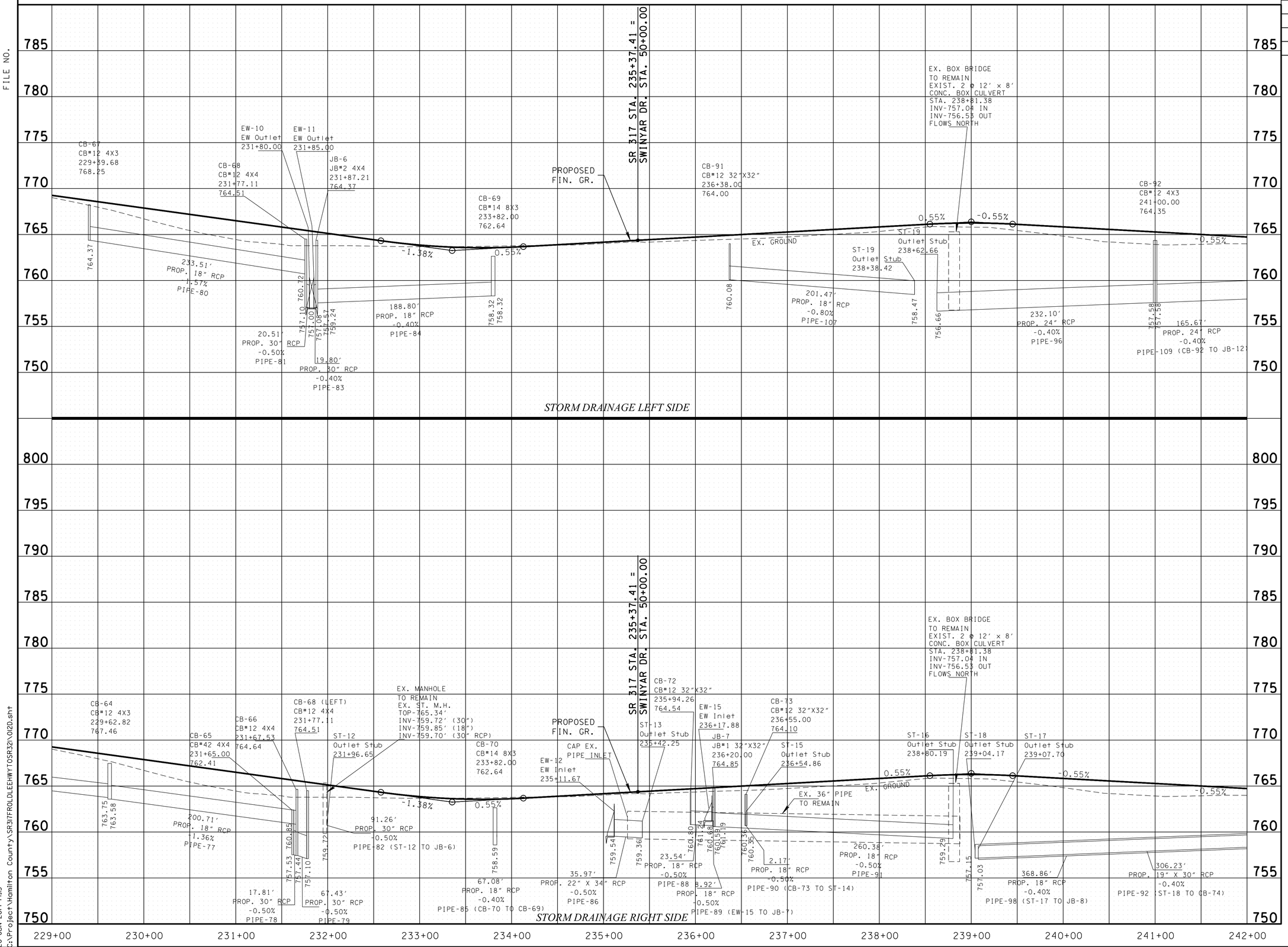
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 12D |

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**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

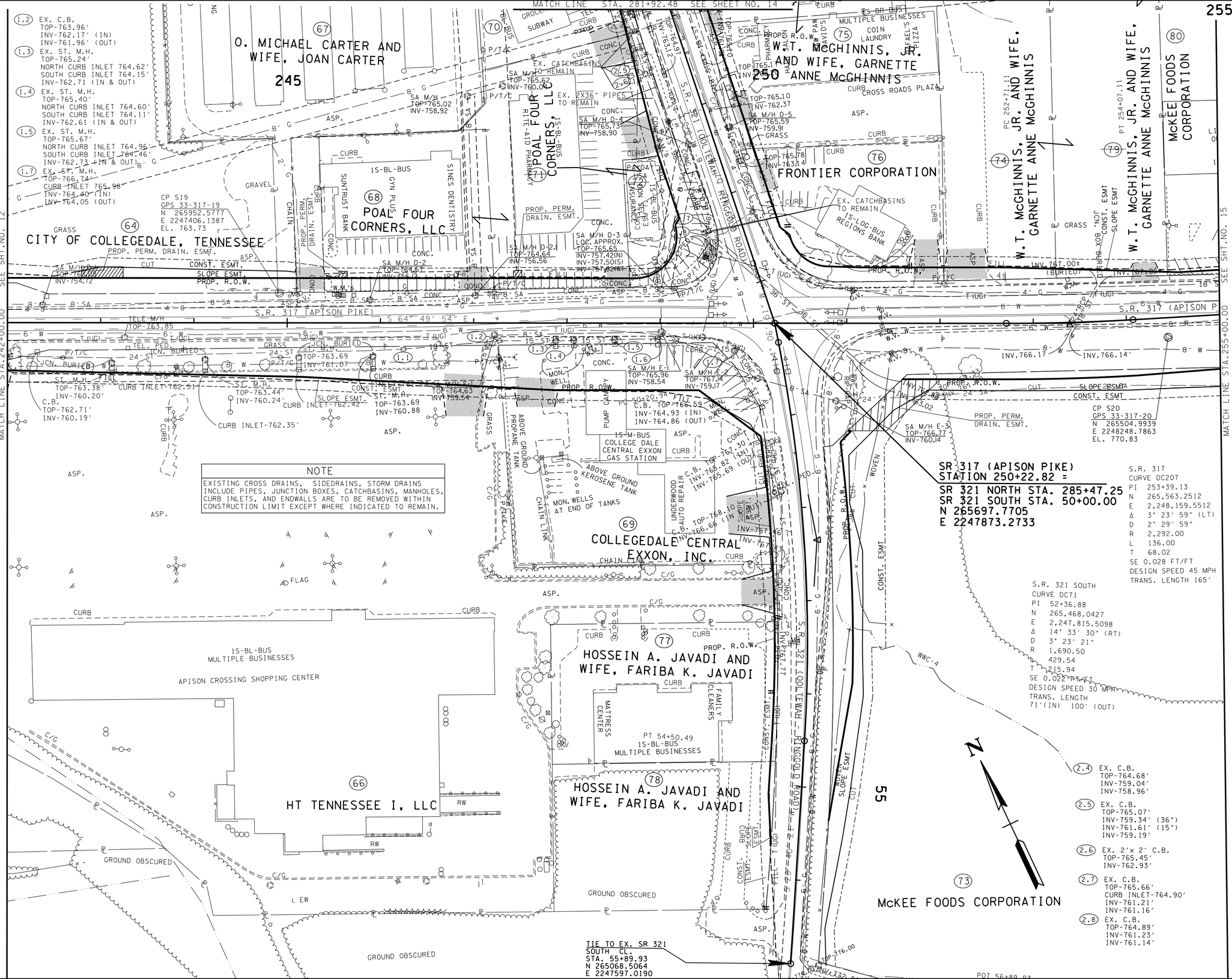
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.229 +00 TO STA.242 +00

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

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




## NOTE

EXISTING CROSS DRAINS, SIDEDRAINS, STORM DRAINS INCLUDE PIPES, JUNCTION BOXES, CATCHBASINS, MANHOLES, CURB INLETS, AND ENDWALLS ARE TO BE REMOVED WITHIN CONSTRUCTION LIMIT EXCEPT WHERE INDICATED TO REMAIN.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 13 |
| CONST. | 2014 | STP/NH-317(14) | 13 |
| | | | |
| | | | |

REV-10-22-12: ADDED PROP. R.O.W. TO TRACTS 78 & 80. ADJUSTED PROP. R.O.W. TO TRACTS 70, 71, 72, 73, 74, 76 & 79. SLOPE & CONST. ESMT. TO TRACTS 70, 71, 72, 73, 74, 76, 77, 78 & 79. CONST. ESMT. TO TRACT 80. PERM. DRAIN. ESMT. TO TRACT 73. ADDED SLOPE & CONST. ESMT. TO TRACT 80.

REV-10-30-12: SHOW PRESENT PARKING LOTS ON TRACT 70.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE. ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES LEFT OF S.R. 321 S. DUE TO ELIMINATION OF ONE THRU LANE. ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES FROM STA. 251+50 TO STA. 255+00 OF S.R. 317 (APISON PIKE) DUE TO ALIGNMENT SHIFT. ADDED DRIVEWAY TO TRACT 79.

REV. 06-14-13: ADJUSTED R.O.W. ON TRACTS 74, 79 & 80. ADJUSTED SLOPE & CONST. ESM'T ON ON TRACTS 70, 72, 73, 74, 79 & 80. ADJUSTED CONST. ESM'T ON TRACT 71.

REV. 05-09-14: ADDED 30' CURB CUT BETWEEN TRACTS 77 & 78 AT STATION 54+64.14 AND ADJUSTED CONST. ESM'T. FOR TEMPORARY DIVERSION CHANNEL ON TRACT 73.

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**NOT FOR BIDDING**

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KATHERINE J. LLOYD
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ONTARIO
NO. 106425
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 242+00 TO STA. 255+00

SCALE: 1"= 50'

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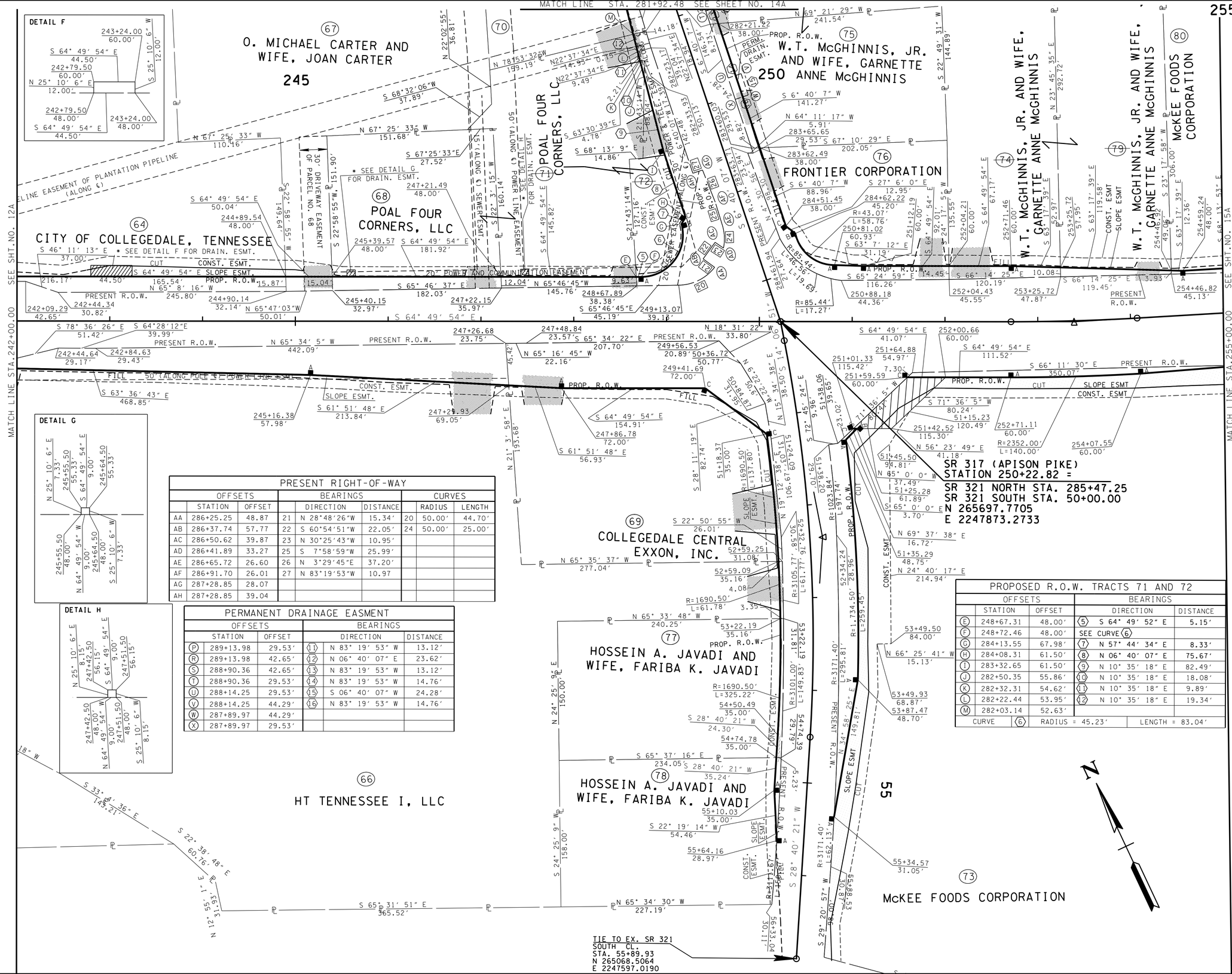
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




| PRESENT RIGHT-OF-WAY | | | | | | | |
|---|---|---|---|---|---|---|---|
| OFFSETS | | | BEARINGS | | | CURVES | |
| | STATION | OFFSET | | DIRECTION | DISTANCE | RADIUS | LENGTH |
| AA | 286+25.25 | 48.87 | 21 | N 28°48'26"W | 15.34' | 50.00' | 44.70' |
| AB | 286+37.74 | 57.77 | 22 | S 60°54'51"W | 22.05' | 50.00' | 25.00' |
| AC | 286+50.62 | 39.87 | 23 | N 30°25'43"W | 10.95' | | |
| AD | 286+41.89 | 33.27 | 25 | S 7°58'59"W | 25.99' | | |
| AE | 286+65.72 | 26.60 | 26 | N 3°29'45"E | 37.20' | | |
| AF | 286+91.70 | 26.01 | 27 | N 83°19'53"W | 10.97 | | |
| AG | 287+28.85 | 28.07 | | | | | |
| AH | 287+28.85 | 39.04 | | | | | |

| PERMANENT DRAINAGE EASEMENT | | | | |
|---|---|---|---|---|
| OFFSETS | | BEARINGS | | |
| STATION | OFFSET | | DIRECTION | DISTANCE |
| (P) 289+13.98 | 29.53' | (11) | N 83° 19' 53" W | 13.12' |
| (R) 289+13.98 | 42.65' | (12) | N 06° 40' 07" E | 23.62' |
| (S) 288+90.36 | 42.65' | (13) | N 83° 19' 53" W | 13.12' |
| (T) 288+90.36 | 29.53' | (14) | N 83° 19' 53" W | 14.76' |
| (U) 288+14.25 | 29.53' | (15) | S 06° 40' 07" W | 24.28' |
| (V) 288+14.25 | 44.29' | (16) | N 83° 19' 53" W | 14.76' |
| (W) 287+89.97 | 44.29' | | | |
| (X) 287+89.97 | 29.53' | | | |

| PROPOSED R.O.W. TRACTS 71 AND 72 | | | | |
|---|---|---|---|---|
| OFFSETS | | | BEARINGS | |
| | STATION | OFFSET | DIRECTION | DISTANCE |
| (E) | 248+67.31 | 48.00' | (5) S 64° 49' 52" E | 5.15' |
| (F) | 248+72.46 | 48.00' | SEE CURVE (6) | |
| (G) | 284+13.55 | 67.98' | (7) N 57° 44' 34" E | 8.33' |
| (H) | 284+08.31 | 61.50' | (8) N 06° 40' 07" E | 75.67' |
| (I) | 283+32.65 | 61.50' | (9) N 10° 35' 18" E | 82.49' |
| (J) | 282+50.35 | 55.86' | (10) N 10° 35' 18" E | 18.08' |
| (K) | 282+32.31 | 54.62' | (11) N 10° 35' 18" E | 9.89' |
| (L) | 282+22.44 | 53.95' | (12) N 10° 35' 18" E | 19.34' |
| (M) | 282+03.14 | 52.63' | | |
| CURVE | (6) | RADIUS = 45.23' | LENGTH = 83.04' | |

255

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 13A |
| CONST. | 2014 | STP/NH-317(14) | 13A |
| | | | |
| | | | |

REV-10-22-12: ADDED PROP. R.O.W. TO TRACTS 78 & 80. ADJUSTED PROP. R.O.W. TO TRACTS 70, 71, 72, 73, 74, 76 & 79. SLOPE & CONST. ESMT. TO TRACTS 70, 71, 72, 73, 74, 76, 77, 78 & 79. CONST. ESMT. TO TRACT 80. PERM. DRAIN. ESMT. TO TRACT 73. ADDED SLOPE & CONST. ESMT. TO TRACT 80.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE. ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES LEFT OF S.R. 321 S. DUE TO ELIMINATION OF ONE THRU LANE. ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES FROM STA. 251+50 TO STA. 255+00 OF S.R. 317 (APISON PIKE) DUE TO ALIGNMENT SHIFT. ADDED DRIVEWAY TO TRACT 79.

REV. 06-14-13: ADJUSTED R.O.W. ON TRACTS 74, 79 & 80. ADJUSTED SLOPE & CONST. ESM'T ON ON TRACTS 70, 72, 73, 74, 79 & 80. ADJUSTED CONST. ESM'T ON TRACT 71. CORRECTED R.O.W. MARKERS.

REV. 08-07-13: CORRECTED OFFSET DISTANCES ALONG SR 317, LEFT STATIONS 253+24.58 AND 254+44.46.

REV. 08-14-13: CORRECTED OFFSET DISTANCE AT STA. 244+90.14 BETWEEN TRACTS 64 & 67, CORRECTED OFFSET STATION AT STA. 245+39.57 BETWEEN TRACTS 67 & 68, CORRECTED STATION & OFFSET DISTANCE AT STA. 253+25.72 BETWEEN TRACTS 74 & 79, CORRECTED OFFSET STATION AT STA. 252+71.46 ON TRACT 74, CORRECTED STATION & OFFSET DISTANCE AT STA. 51+38.20 AND CORRECTED OFFSET DISTANCE AT STA. 52+34.24 ON TRACT 73, CORRECTED STATION & OFFSET DISTANCE AT STA. 56+33.04 ON TRACT 78, CORRECTED DISTANCE UNDER BEARING S 65° 37' 16" E BETWEEN TRACTS 77 & 78, ADDED STATION & OFFSET DISTANCE AT STA. 54+74.78 BETWEEN TRACTS 77 & 78, CORRECTED OFFSET STATIONS AT STA. 284+61.94, 283+63.71, 283+65.65 ON TRACT 76, STA. 283+60.03 BETWEEN TRACTS 75 & 76, CORRECTED DISTANCE UNDER BEARING S 67° 10' 29" E BETWEEN TRACTS 75 & 76, CORRECTED STATION & OFFSET DISTANCE AT STA. 282+33.93, CORRECTED OFFSET STATION AT STA. 282+23.17, CORRECTED DISTANCES UNDER BEARINGS S 21° 43' 14" W, N 22° 37' 34" E BETWEEN OFFSET STA. 282+23.17 & 282+22.44 (L), S 63° 30' 39" E BETWEEN TRACTS 71 & 72. CORRECTED DISTANCE UNDER BEARING N 10° 35' 18" E (9) ON TRACT 72. ADDED STATIONS & OFFSET DISTANCES (J), (K), (L), (M), AND BEARINGS & DISTANCES (10), (11), (12) BETWEEN TRACTS 71 & 72.

REV. 05-09-14: ADDED 30' CURB CUT BETWEEN TRACTS 77 & 78 AT STATION 54+64.14 AND ADJUSTED CC DIVERSION (

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
No. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 242+00 TO STA. 255+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 13B |
| CONST. | 2014 | STP/NH-317(14) | 13B |
| | | | |
| | | | |

REV. 11-28-12: ADJUSTED DRIVEWAY LIMIT OF CONST. @ STA. 282+08.88 RIGHT ON S.R. 321 N. DUE TO WIDENING OF PROP. R.O.W. FOR ADDITIONAL THRU LANE RIGHT OF S.R. 321 N. ADDED PROP. OPENINGS STA. 54+16.09 & STA. 56+09.62 LEFT ON S.R. 321 S. AND STA. 253+79.77 ON S.R. 317 RIGHT. ADDED DRIVEWAY STA. 254+19.59 LEFT OF S.R. 317. ROADWAY ALIGNMENT SHIFTED FROM PC STA. 252+71.11 OF S.R. 317 (APISON PIKE).

REV. 06-14-13: ADJUSTED DRAINAGE.

REV. 05-09-14: ADDED 30' CURB CUT AT STATION 54+64.14 RIGHT ON S.R. 321 SOUTH.

| DRAINAGE NOTE |
|---|
| ST-21, STUB EX. 36" PIPE TO JUNCTION JB-10. |
| ST-22, STUB EX. 36" PIPE TO JUNCTION JB-11. |

EXISTING CATCHBASINS TO REMAIN

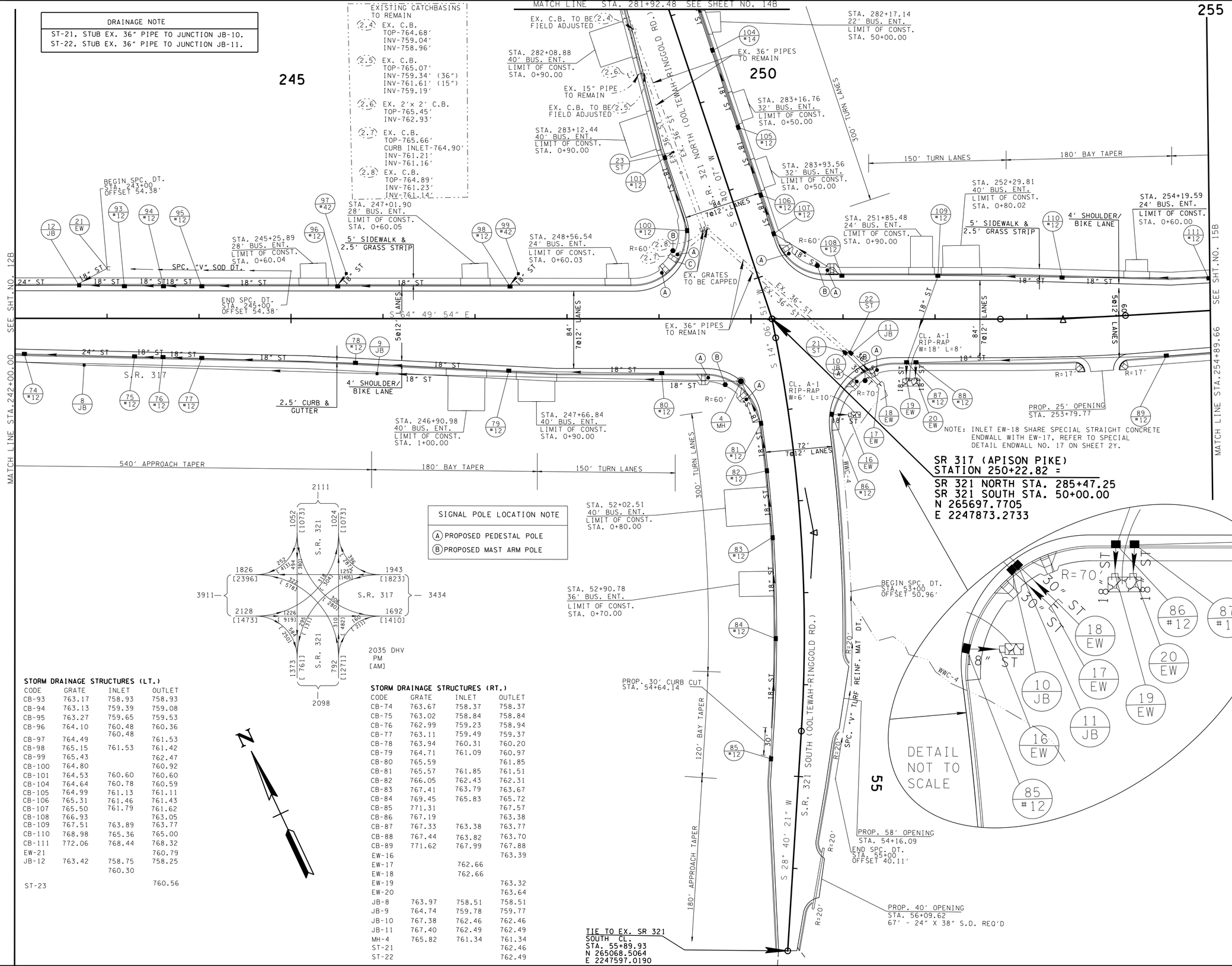
(2.4) EX. C.B. TOP-764.68' INV-759.04' INV-758.96'

(2.5) EX. C.B. TOP-765.07' INV-759.34' (36") INV-761.61' (15") INV-759.19'

(2.6) EX. 2'x 2' C.B. TOP-765.45' INV-762.93'

(2.7) EX. C.B. TOP-765.66' CURB INLET-764.90' INV-761.21' INV-761.16'

(2.8) EX. C.B. TOP-764.89' INV-761.23' INV-761.14'




| SIGNAL POLE LOCATION NOTE |
|---|
| (A) PROPOSED PEDESTAL POLE |
| (B) PROPOSED MAST ARM POLE |

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-93 | 763.17 | 758.93 | 758.93 |
| CB-94 | 763.13 | 759.39 | 759.08 |
| CB-95 | 763.27 | 759.65 | 759.53 |
| CB-96 | 764.10 | 760.48 | 760.36 |
| | | 760.48 | |
| CB-97 | 764.49 | | 761.53 |
| CB-98 | 765.15 | 761.53 | 761.42 |
| CB-99 | 765.43 | | 762.47 |
| CB-100 | 764.80 | | 760.92 |
| CB-101 | 764.53 | 760.60 | 760.60 |
| CB-104 | 764.64 | 760.78 | 760.59 |
| CB-105 | 764.99 | 761.13 | 761.11 |
| CB-106 | 765.31 | 761.46 | 761.43 |
| CB-107 | 765.50 | 761.79 | 761.62 |
| CB-108 | 766.93 | | 763.05 |
| CB-109 | 767.51 | 763.89 | 763.77 |
| CB-110 | 768.98 | 765.36 | 765.00 |
| CB-111 | 772.06 | 768.44 | 768.32 |
| EW-21 | | | 760.79 |
| JB-12 | 763.42 | 758.75 | 758.25 |
| | | 760.30 | |
| ST-23 | | | 760.56 |

**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-74 | 763.67 | 758.37 | 758.37 |
| CB-75 | 763.02 | 758.84 | 758.84 |
| CB-76 | 762.99 | 759.23 | 758.94 |
| CB-77 | 763.11 | 759.49 | 759.37 |
| CB-78 | 763.94 | 760.31 | 760.20 |
| CB-79 | 764.71 | 761.09 | 760.97 |
| CB-80 | 765.59 | | 761.85 |
| CB-81 | 765.57 | 761.85 | 761.51 |
| CB-82 | 766.05 | 762.43 | 762.31 |
| CB-83 | 767.41 | 763.79 | 763.67 |
| CB-84 | 769.45 | 765.83 | 765.72 |
| CB-85 | 771.31 | | 767.57 |
| CB-86 | 767.19 | | 763.38 |
| CB-87 | 767.33 | 763.38 | 763.77 |
| CB-88 | 767.44 | 763.82 | 763.70 |
| CB-89 | 771.62 | 767.99 | 767.88 |
| EW-16 | | | 763.39 |
| EW-17 | | 762.66 | |
| EW-18 | | 762.66 | |
| EW-19 | | | 763.32 |
| EW-20 | | | 763.64 |
| JB-8 | 763.97 | 758.51 | 758.51 |
| JB-9 | 764.74 | 759.78 | 759.77 |
| JB-10 | 767.38 | 762.46 | 762.46 |
| JB-11 | 767.40 | 762.49 | 762.49 |
| MH-4 | 765.82 | 761.34 | 761.34 |
| ST-21 | | | 762.46 |
| ST-22 | | | 762.49 |

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 242+00 TO STA. 255+00

SCALE: 1"= 50'

20-JUN-2014 14:14
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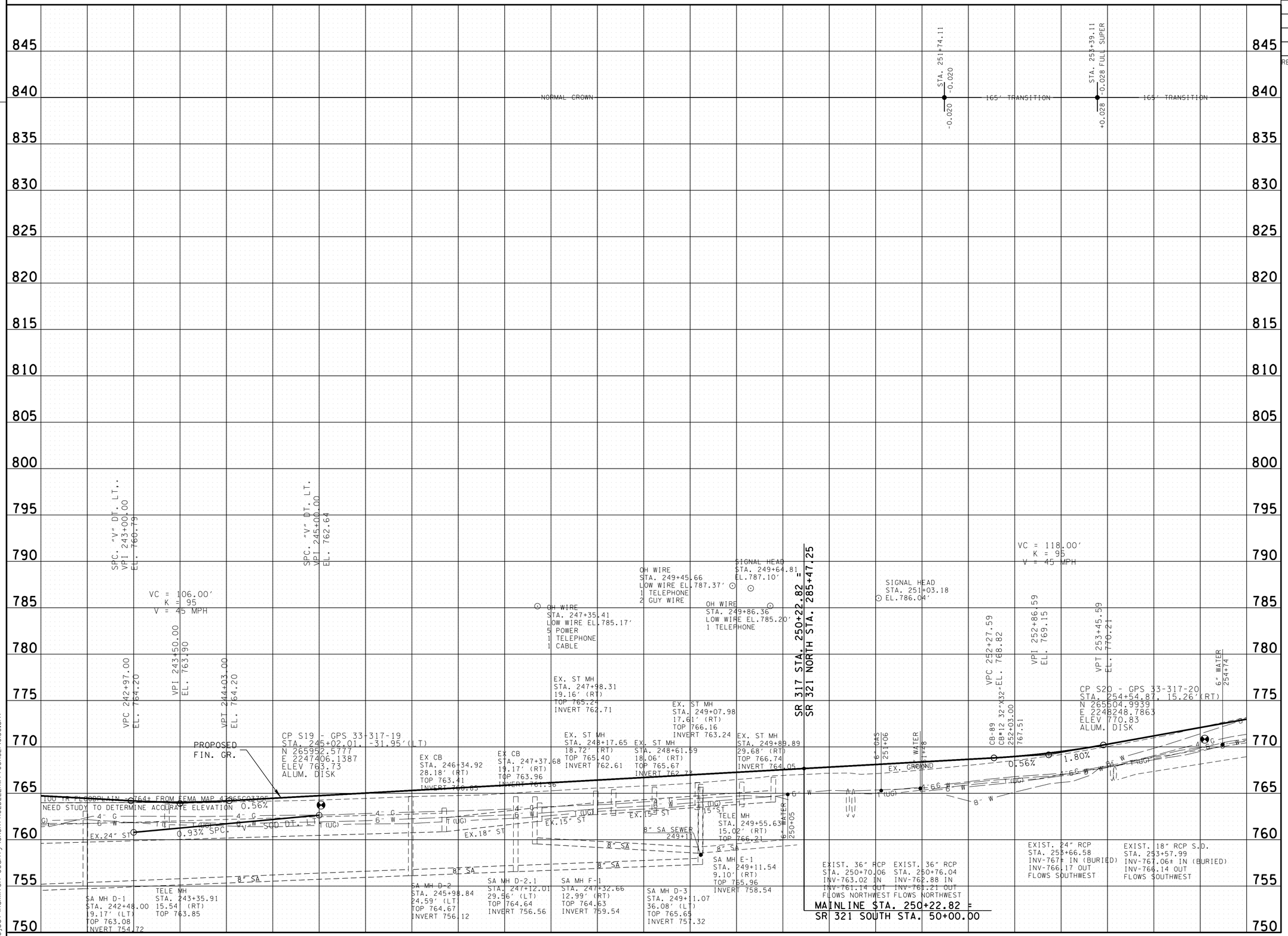
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 13C |
| CONST. | 2014 | STP/NH-317(14) | 13C |

REV. 06-14-13: ADJUSTED DRAINAGE.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 242+00 TO STA. 255+00

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

8-JUN-2014 08:14
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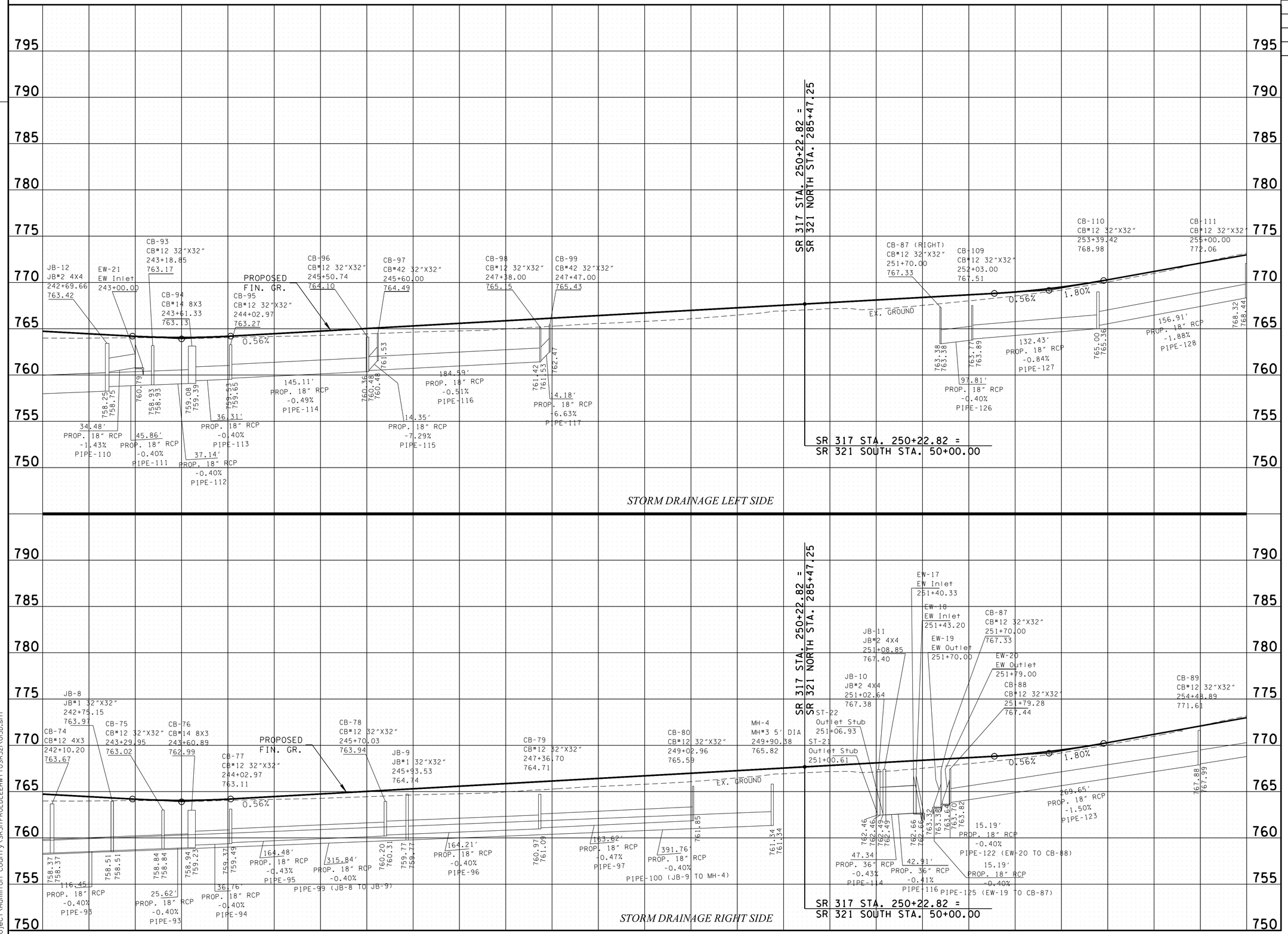
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 13D |




UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORM DRAINAGE PROFILE

STA.242 +00 TO STA.255 +00

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

20-JUN-2014 14:15
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 14 |
| CONST. | 2014 | STP/NH-317(14) | 14 |
| | | | |
| | | | |

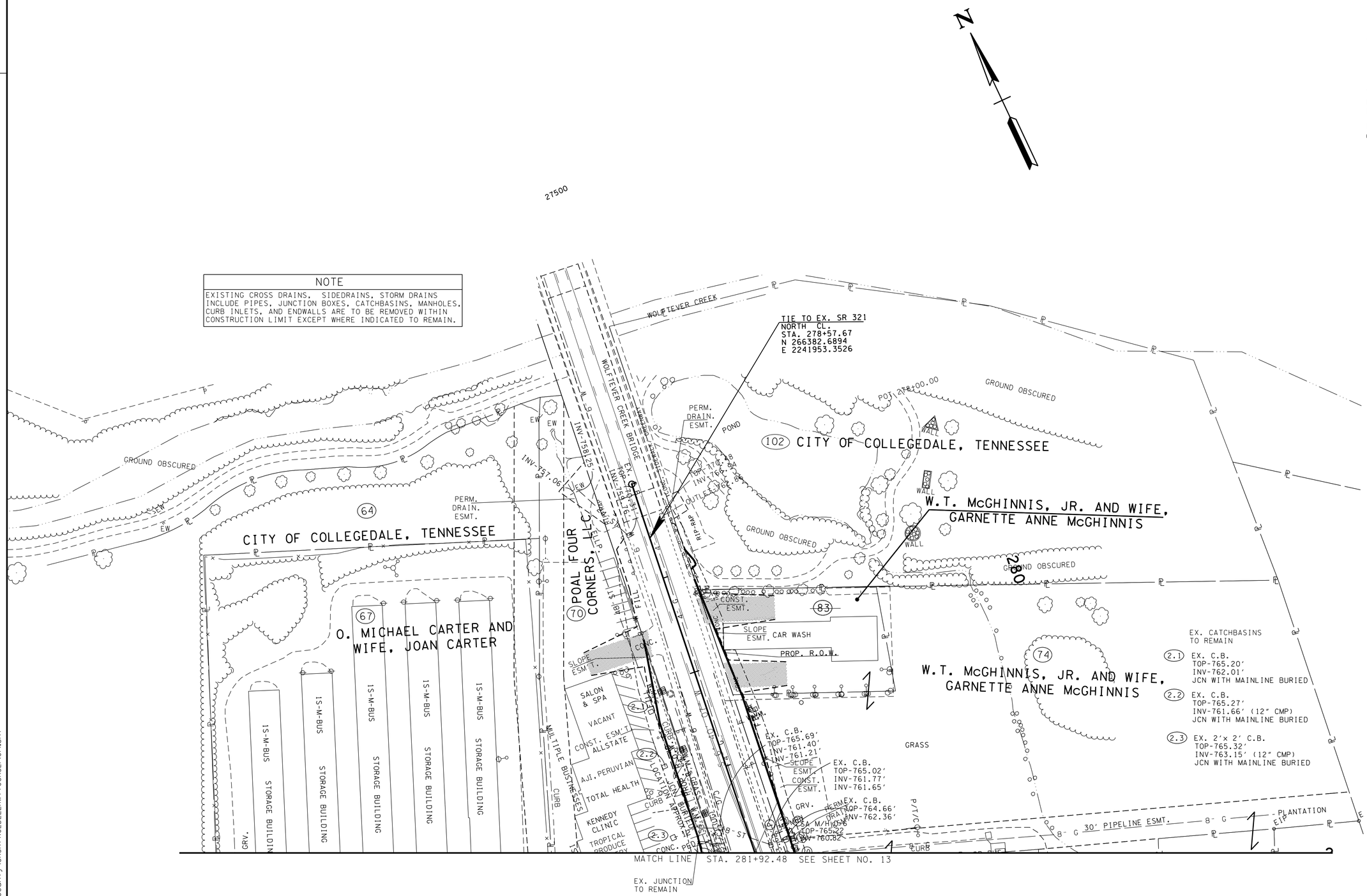
REV-10-22-12: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 70.

REV-10-30-12: SHOW PRESENT PARKING LOTS ON TRACT 70.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE.

REV. 06-14-13: ADJUSTED SLOPE & CONST. ESM'T ON TRACT 70.

REV. 03-19-14: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.




NOTE

EXISTING CROSS DRAINS, SIDEDRAINS, STORM DRAINS INCLUDE PIPES, JUNCTION BOXES, CATCHBASINS, MANHOLES, CURB INLETS, AND ENDWALLS ARE TO BE REMOVED WITHIN CONSTRUCTION LIMIT EXCEPT WHERE INDICATED TO REMAIN.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

8-JUN-2014 08:15
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

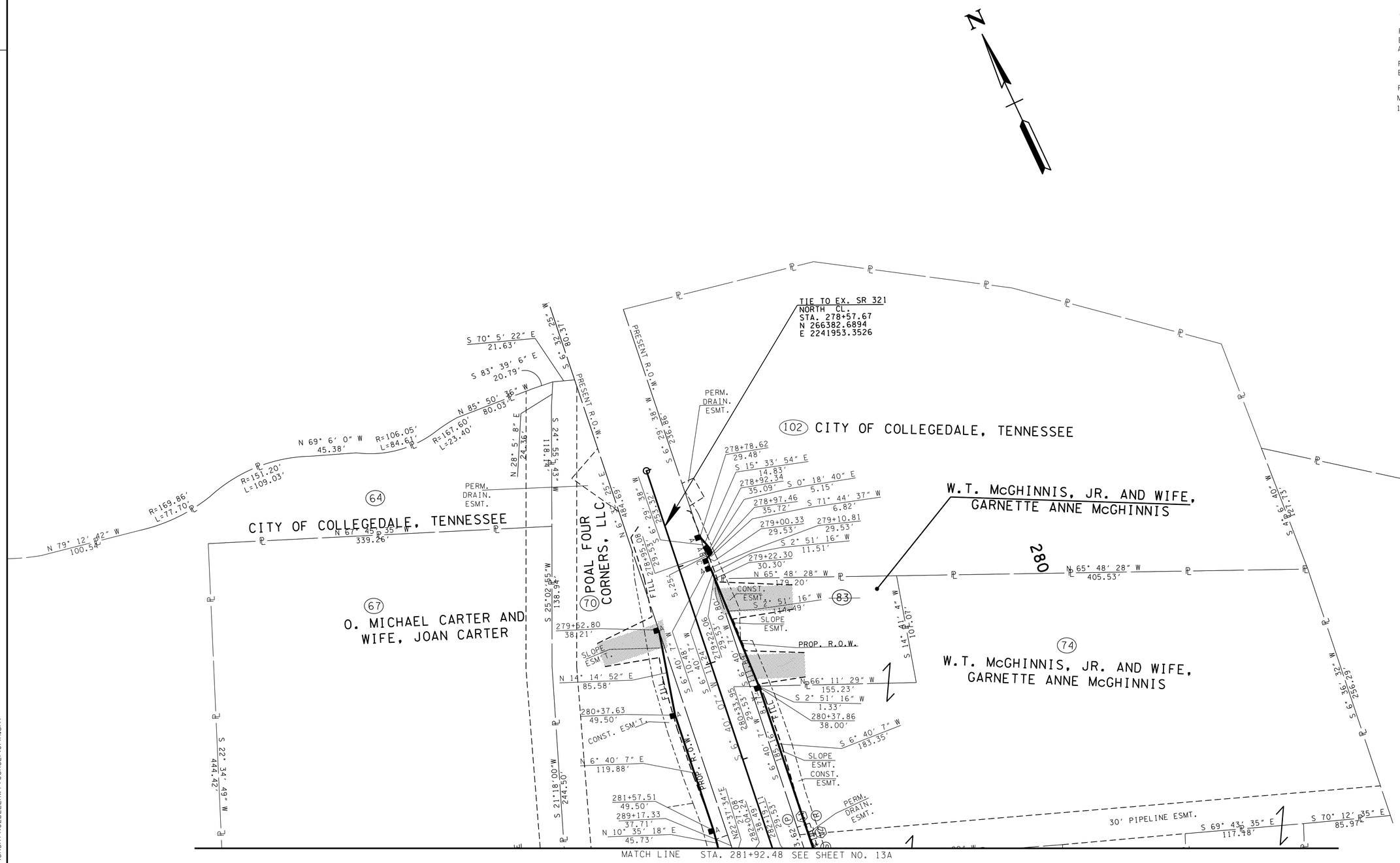
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 14A |
| CONST. | 2014 | STP/NH-317(14) | 14A |
| | | | |
| | | | |

REV-10-22-12: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 70.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE.

REV. 06-14-13: ADJUSTED SLOPE & CONST. ESM'T ON TRACT 70.

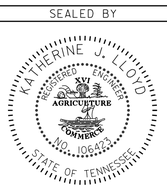
REV. 03-19-14: ADJUSTED PROP. R.O.W., R.O.W. MARKERS, SLOPE & CONST. ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

28-JUN-2014 08:15
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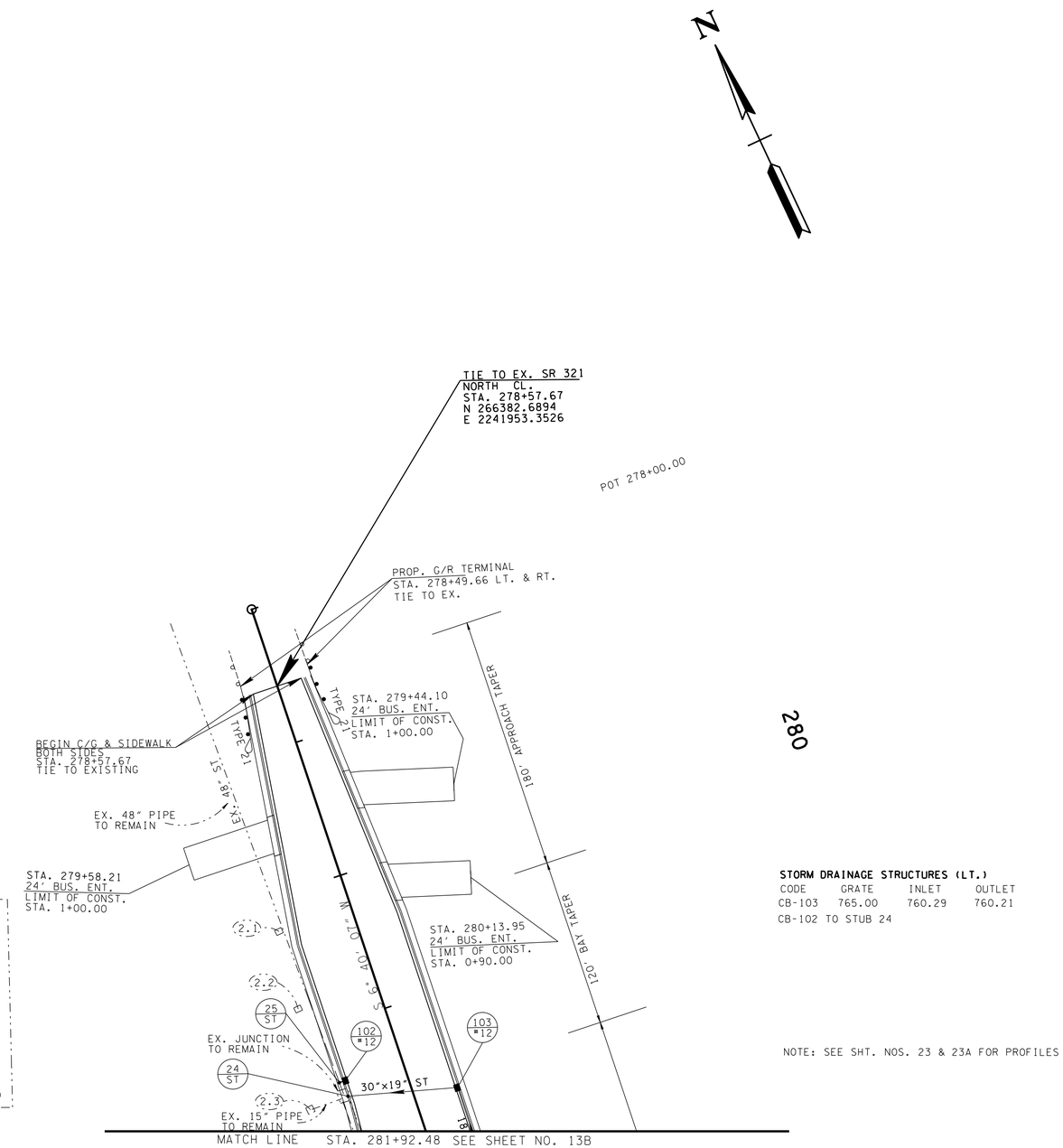
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 14B |
| CONST. | 2014 | STP/NH-317(14) | 14B |
| | | | |
| | | | |

REV. 11-28-12: ADJUSTED DRIVEWAY LIMIT OF CONST. @ STA. 279+58.21 RIGHT ON S.R. 321 N.

REV. 06-14-13: ADJUSTED DRAINAGE.

REV. 03-19-14: ADDED GUARDRAIL TERMINAL TYPE 21.




**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-102 | 765.16 | | 760.33 |
| ST-24 | | | 759.91 |
| ST-25 | | | 760.00 |

| DRAINAGE NOTE |
|---|
| ST-25, STUB TO EX. 48" PIPE |
| ST-24, STUB TO EX. JUNCTION |

EX. CATCHBASINS
TO REMAIN

2.1 EX. C.B.
TOP-765.20'
INV-762.01'
JCN WITH MAINLINE BURIED

2.2 EX. C.B.
TOP-765.27'
INV-761.66' (12" CMP)
JCN WITH MAINLINE BURIED

2.3 EX. 2'x 2' C.B.
TOP-765.32'
INV-763.15' (12" CMP)
JCN WITH MAINLINE BURIED

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-103 | 765.00 | 760.29 | 760.21 |
| CB-102 TO STUB 24 | | | |

NOTE: SEE SHT. NOS. 23 & 23A FOR PROFILES

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

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

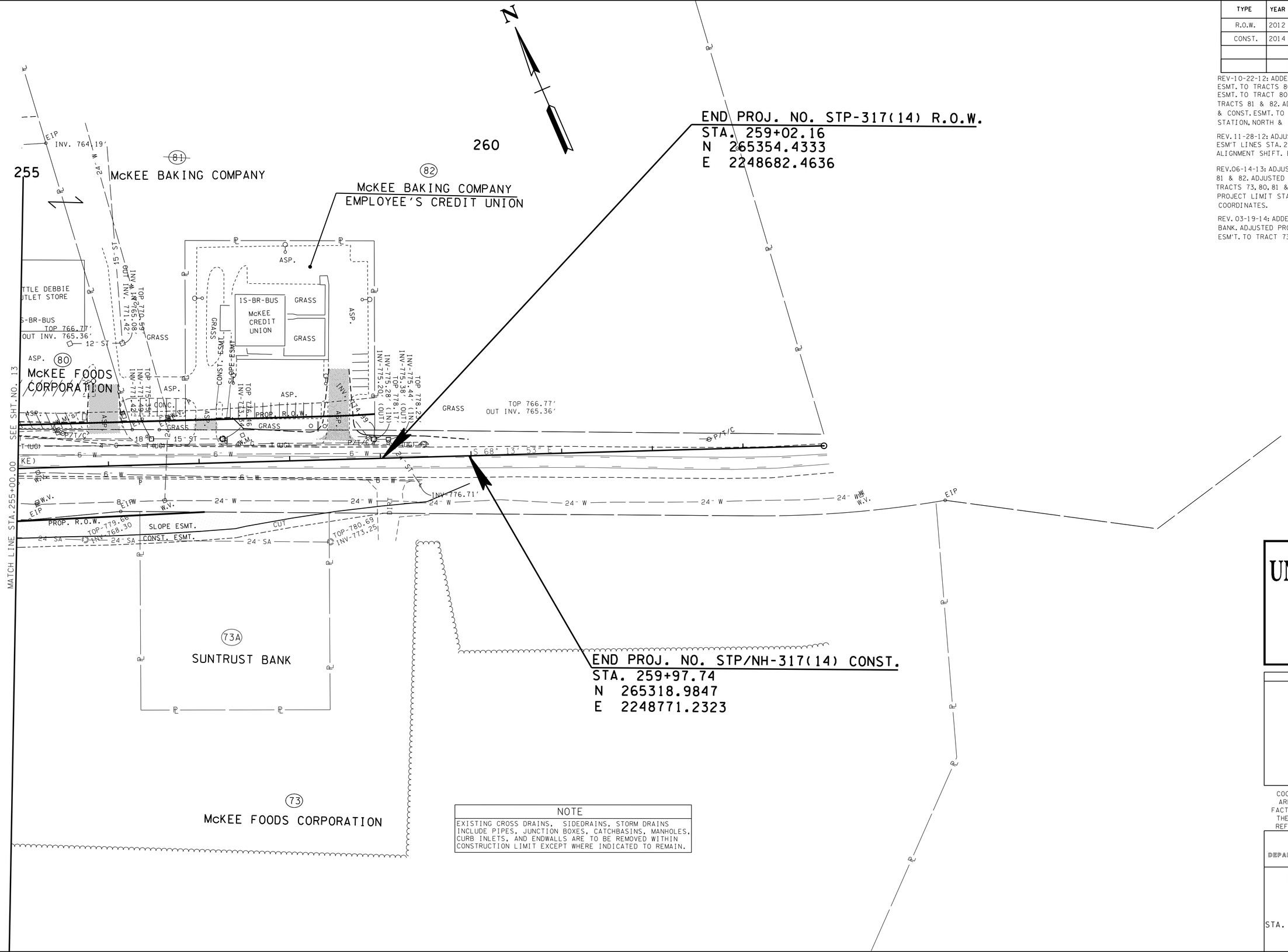
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 15 |
| CONST. | 2014 | STP/NH-317(14) | 15 |
| | | | |
| | | | |

REV-10-22-12: ADDED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACTS 80, 81 & 82. ADJUSTED CONST. ESMT. TO TRACT 80. ADDED CONST. ESMT. TO TRACTS 81 & 82. ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 73, END PROJECT STATION, NORTH & EAST COORDINATE.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES STA. 255+00 TO STA. 260+00 DUE TO ALIGNMENT SHIFT. EXTENDED END PROJECT LIMIT.

REV.06-14-13: ADJUSTED R.O.W. ON TRACTS 80, 81 & 82. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 73, 80, 81 & 82. ADJUSTED R.O.W. END PROJECT LIMIT STATION & NORTH EAST COORDINATES.

REV. 03-19-14: ADDED TRACT 73A FOR SUNTRUST BANK. ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 73.




NOTE

EXISTING CROSS DRAINS, SIDEDRAINS, STORM DRAINS INCLUDE PIPES, JUNCTION BOXES, CATCHBASINS, MANHOLES, CURB INLETS, AND ENDWALLS ARE TO BE REMOVED WITHIN CONSTRUCTION LIMIT EXCEPT WHERE INDICATED TO REMAIN.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 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. 259+97

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 15A |
| CONST. | 2014 | STP/NH-317(14) | 15A |
| | | | |
| | | | |

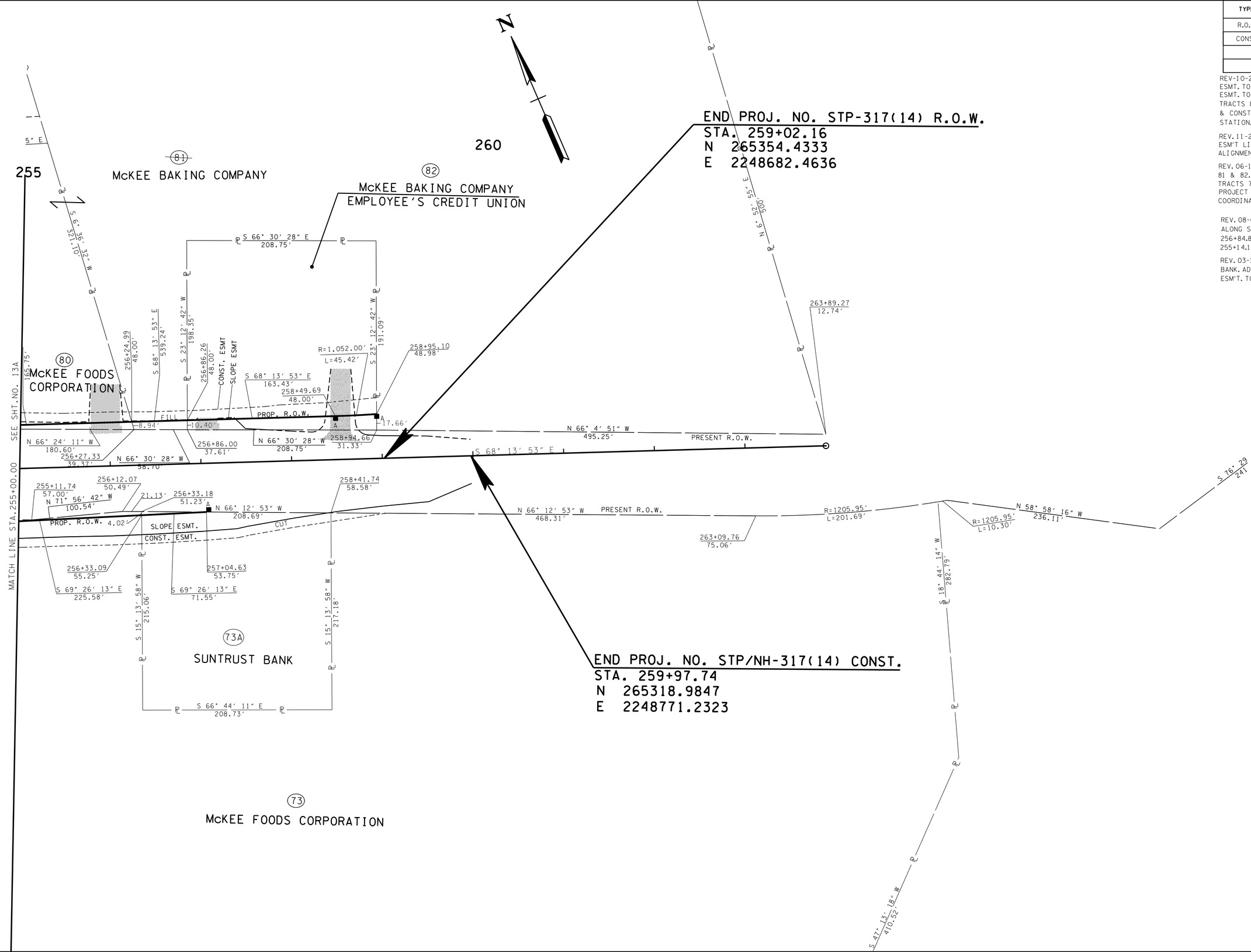
REV-10-22-12: ADDED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACTS 80, 81 & 82. ADJUSTED CONST. ESMT. TO TRACT 80. ADDED CONST. ESMT. TO TRACTS 81 & 82. ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 73, END PROJECT STATION, NORTH & EAST COORDINATE.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES STA. 255+00 TO STA. 260+00 DUE TO ALIGNMENT SHIFT. EXTENDED END PROJECT LIMIT.

REV. 06-14-13: ADJUSTED R.O.W. ON TRACTS 80, 81 & 82. ADJUSTED SLOPE & CONST. ESM'T ON TRACTS 73, 80, 81 & 82. ADJUSTED R.O.W. END PROJECT LIMIT STATION & NORTH EAST COORDINATES. CORRECTED R.O.W. MARKERS.

REV. 08-07-13: CORRECTED OFFSET DISTANCES ALONG SR 317, LEFT STATIONS 256+25.88, 256+84.85, 258+93.74, AND RIGHT STATIONS 255+14.13 & 256+13.75.

REV. 03-19-14: ADDED TRACT 73A FOR SUNTRUST BANK. ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 73.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# R.O.W. DETAILS

STA. 255+00 TO STA. 259+97

SCALE: 1"= 50'

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

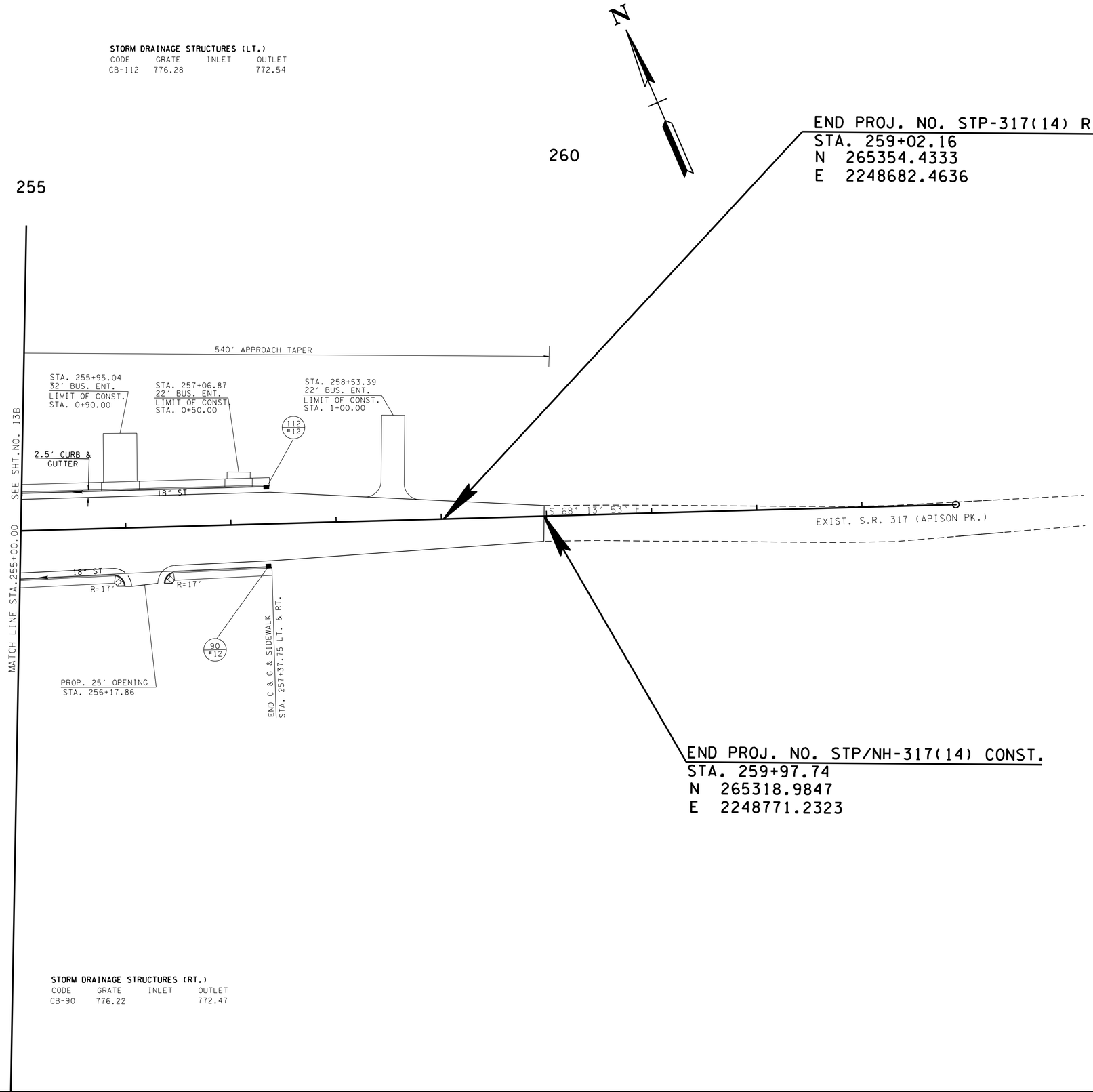
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 15B |
| R.O.W. | 2014 | STP/NH-317(14) | 15B |
| | | | |
| | | | |

REV. 1-28-12: ADDED PROP. OPENINGS STATIONS 256+17.86, 258+17.37 & 260+86.34 RIGHT. ADJUSTED DRIVEWAYS STATIONING & LIMIT OF CONSTRUCTION LEFT DUE TO ALIGNMENT SHIFT. EXTENDED END PROJECT LIMIT.

REV. 06-14-13: ADJUSTED DRAINAGE, R.O.W. END PROJECT LIMIT STATION, END CONST. LIMIT STATION, AND ROADWAY TEMPLATE FROM STA. 257+37.75 TO STA. 259+97.74.

**STORM DRAINAGE STRUCTURES (LT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-112 | 776.28 | | 772.54 |




**STORM DRAINAGE STRUCTURES (RT.)**

| CODE | GRATE | INLET | OUTLET |
|---|---|---|---|
| CB-90 | 776.22 | | 772.47 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA. 255+00 TO STA. 259+97

SCALE: 1"= 50'

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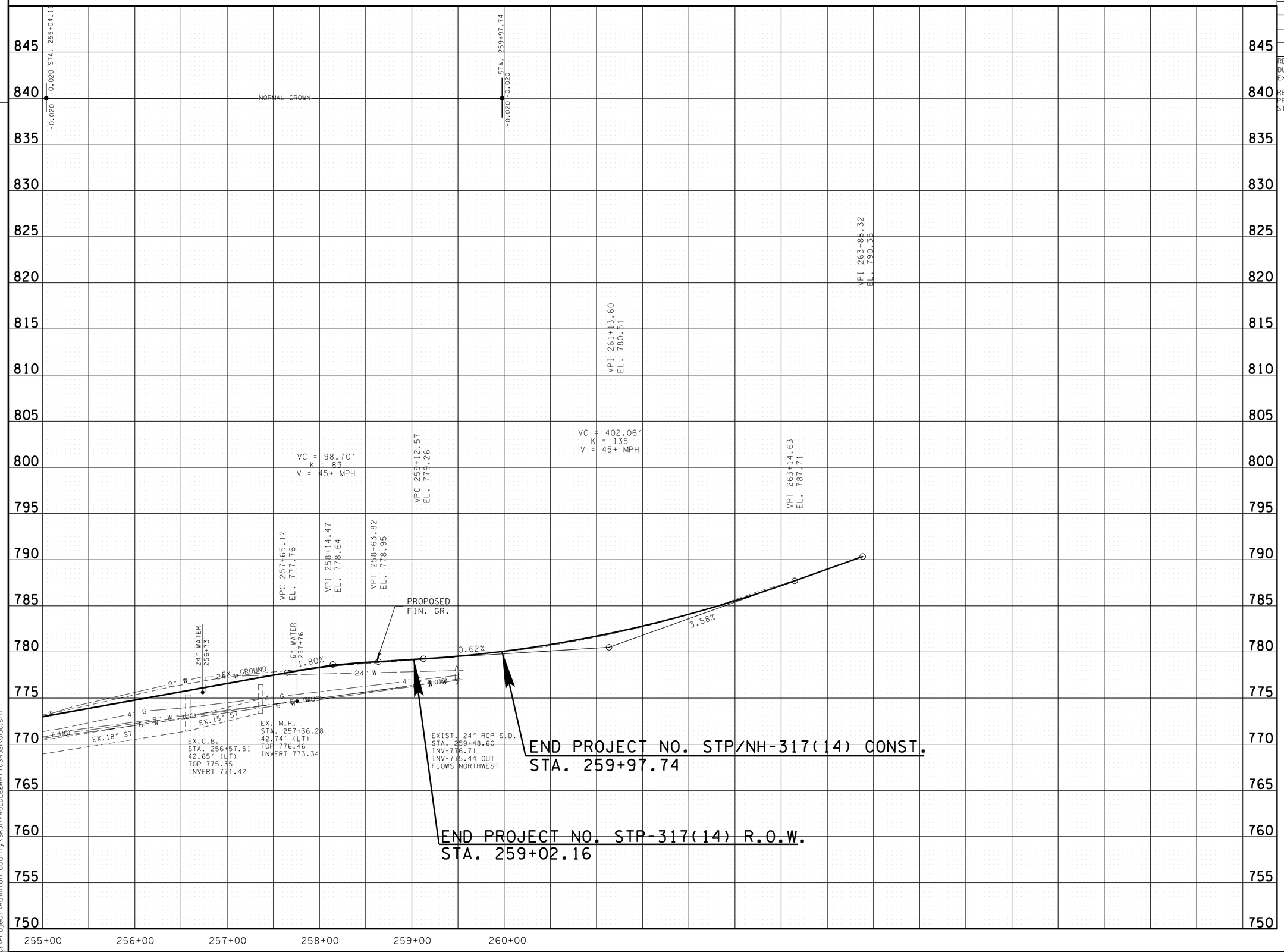
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 15C |
| CONST. | 2014 | STP/NH-317(14) | 15C |

REV. 11-28-12: ADJUSTED VERTICAL ALIGNMENT DUE TO HORIZONTAL ALIGNMENT SHIFT AND EXTENDED END PROJECT LIMIT.

REV. 06-14-13: ADJUSTED DRAINAGE & R.O.W. END PROJECT LIMIT STATION, AND END CONST. LIMIT STATION.

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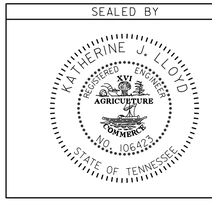
NOT FOR BIDDING

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE

STA. 255+00 TO STA. 263+89
SCALE: 1"= 50' HORIZ.
1"= 1' VERT.

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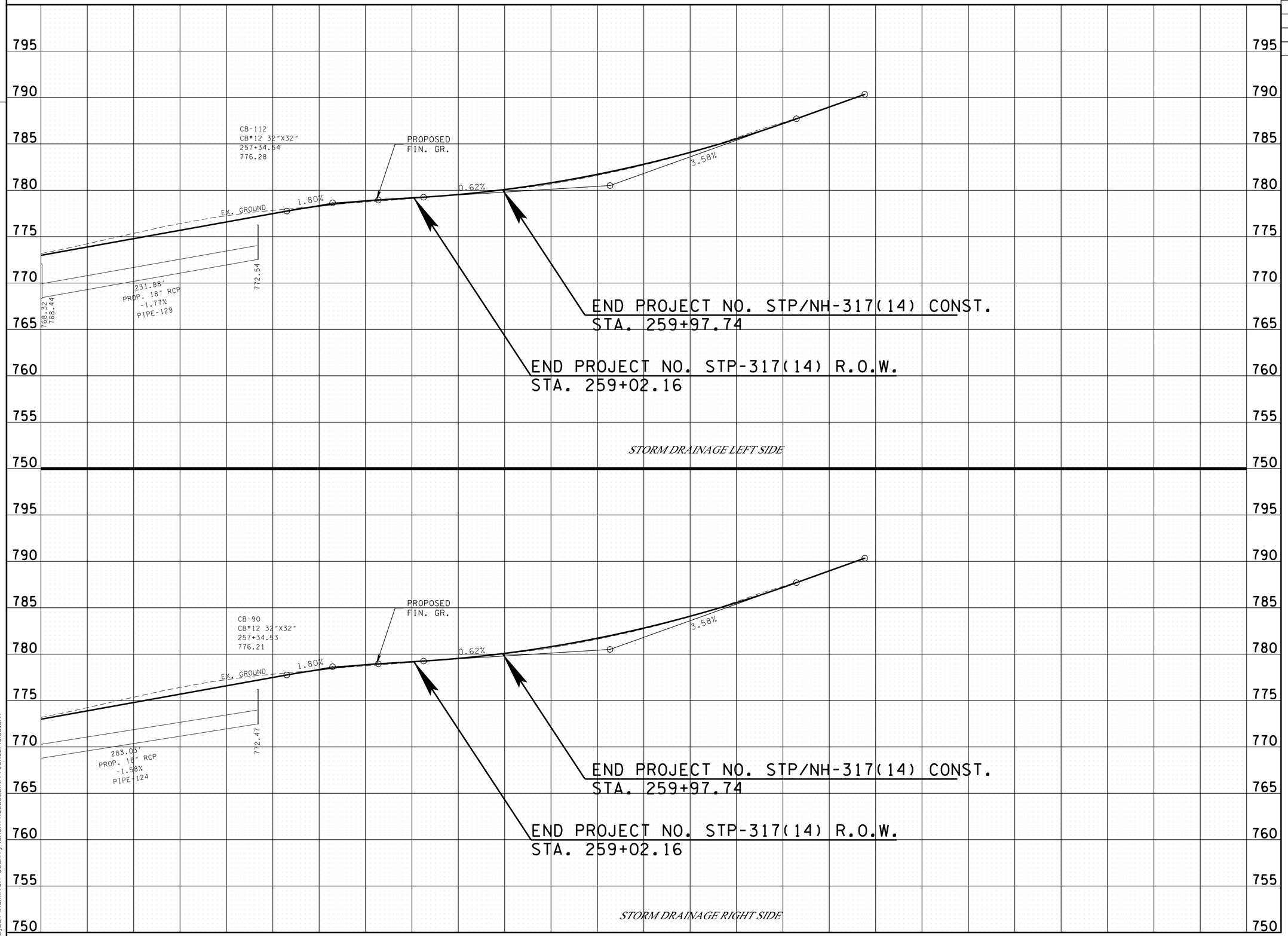
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

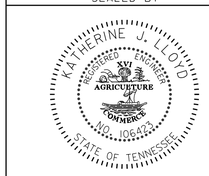
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 15D |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORM DRAINAGE PROFILE

STA.255 +00 TO STA.263 +89

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

8-JUN-2014 08:15
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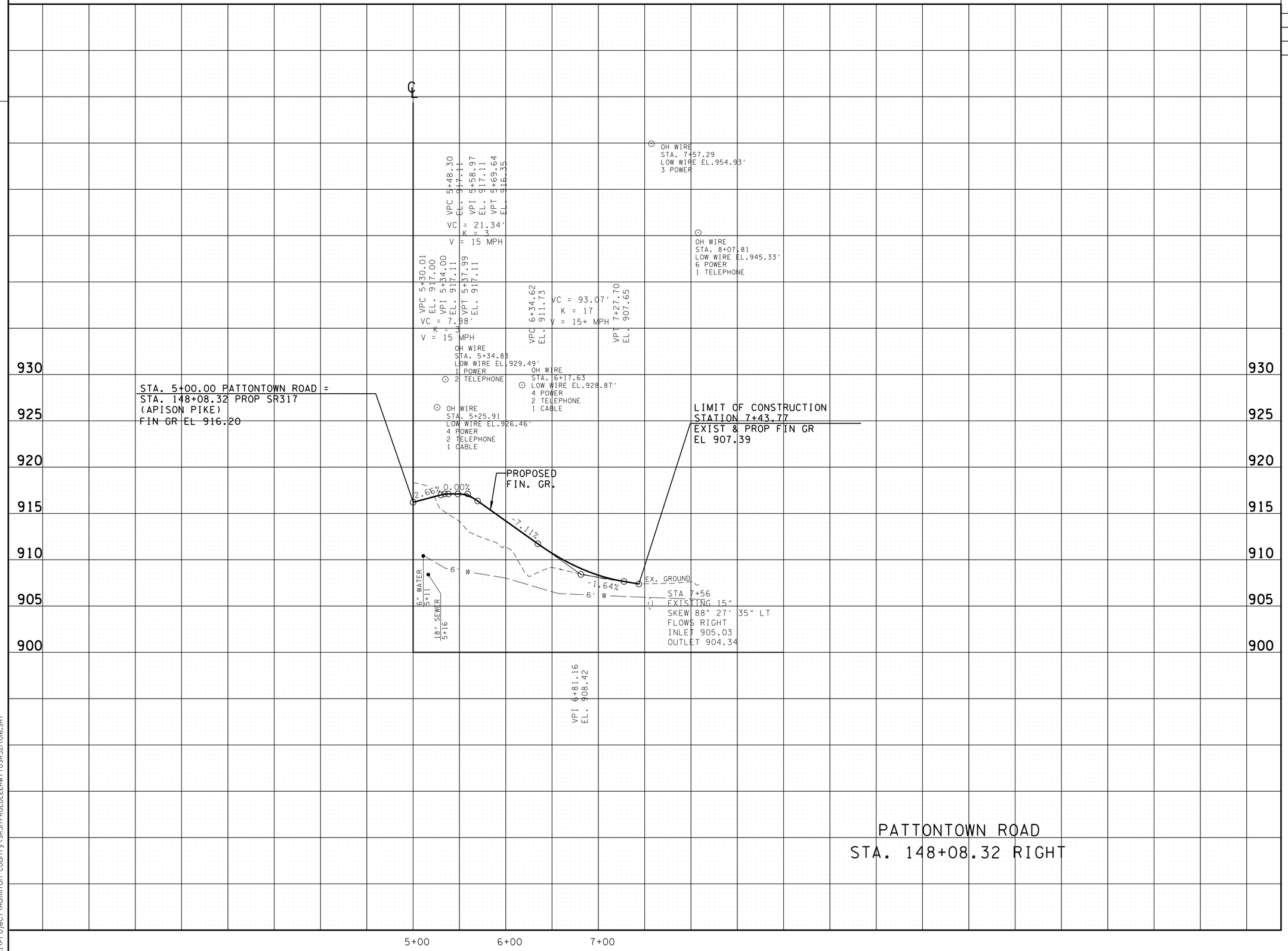
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 16 |
| CONST. | 2014 | STP/NH-317(14) | 16 |




PATTONTOWN ROAD
STA. 148+08.32 RIGHT

**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-JUN-2014 08:15
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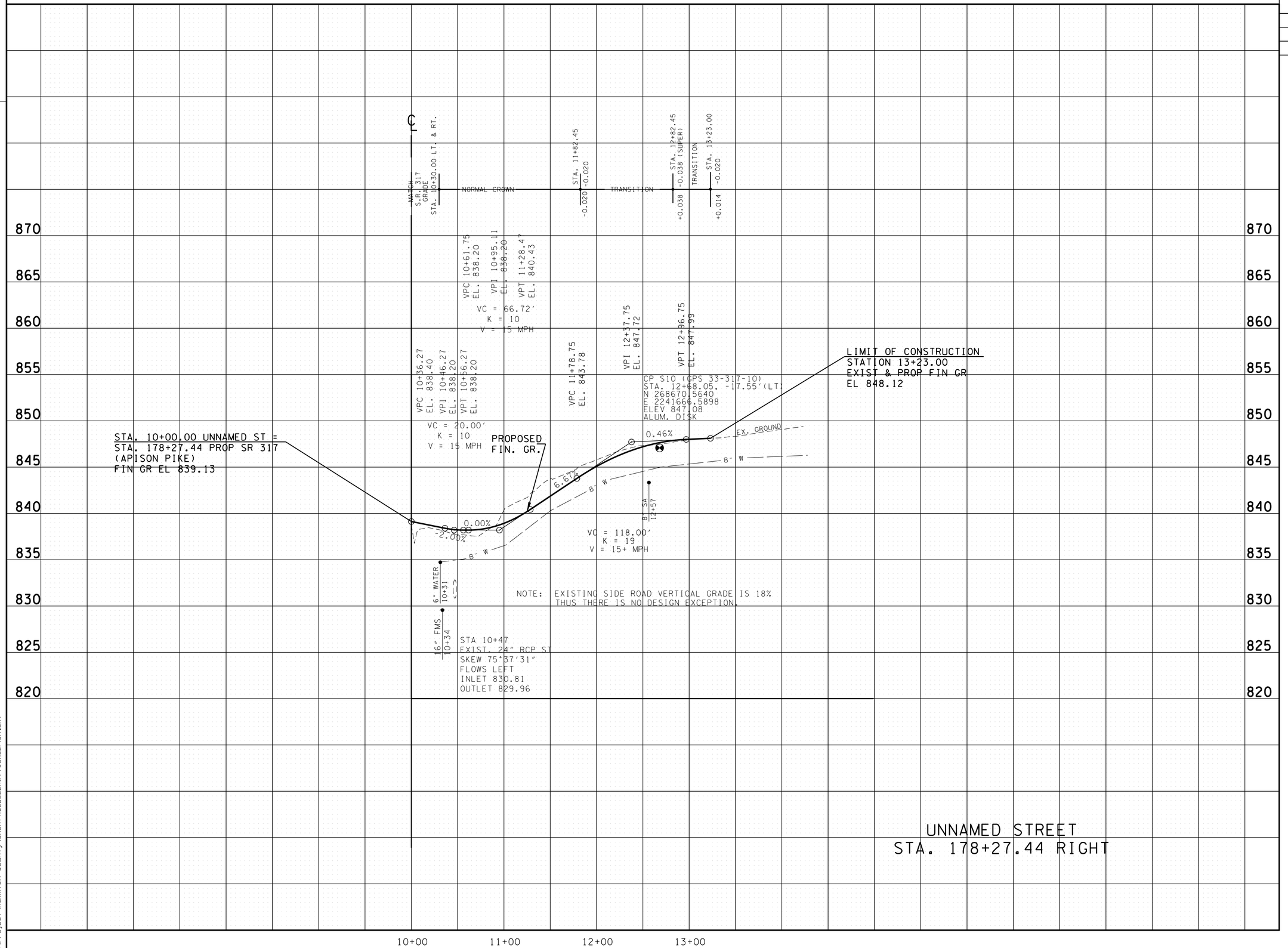
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 17 |
| CONST. | 2014 | STP/NH-317(14) | 17 |




**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-JUN-2014 08:15
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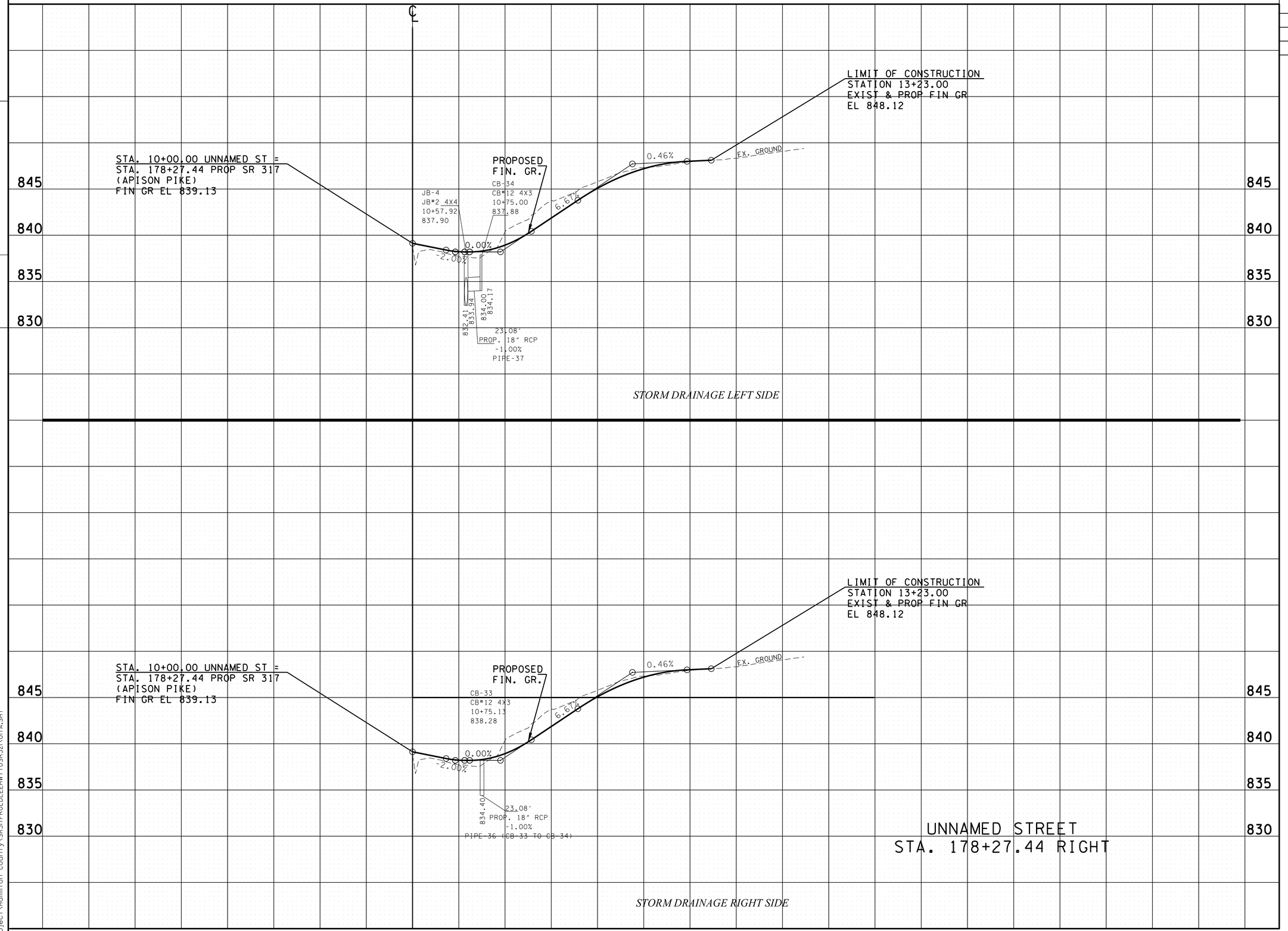
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 17A |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.190 +00 TO STA.203 +00

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

8-JUN-2014 08:15
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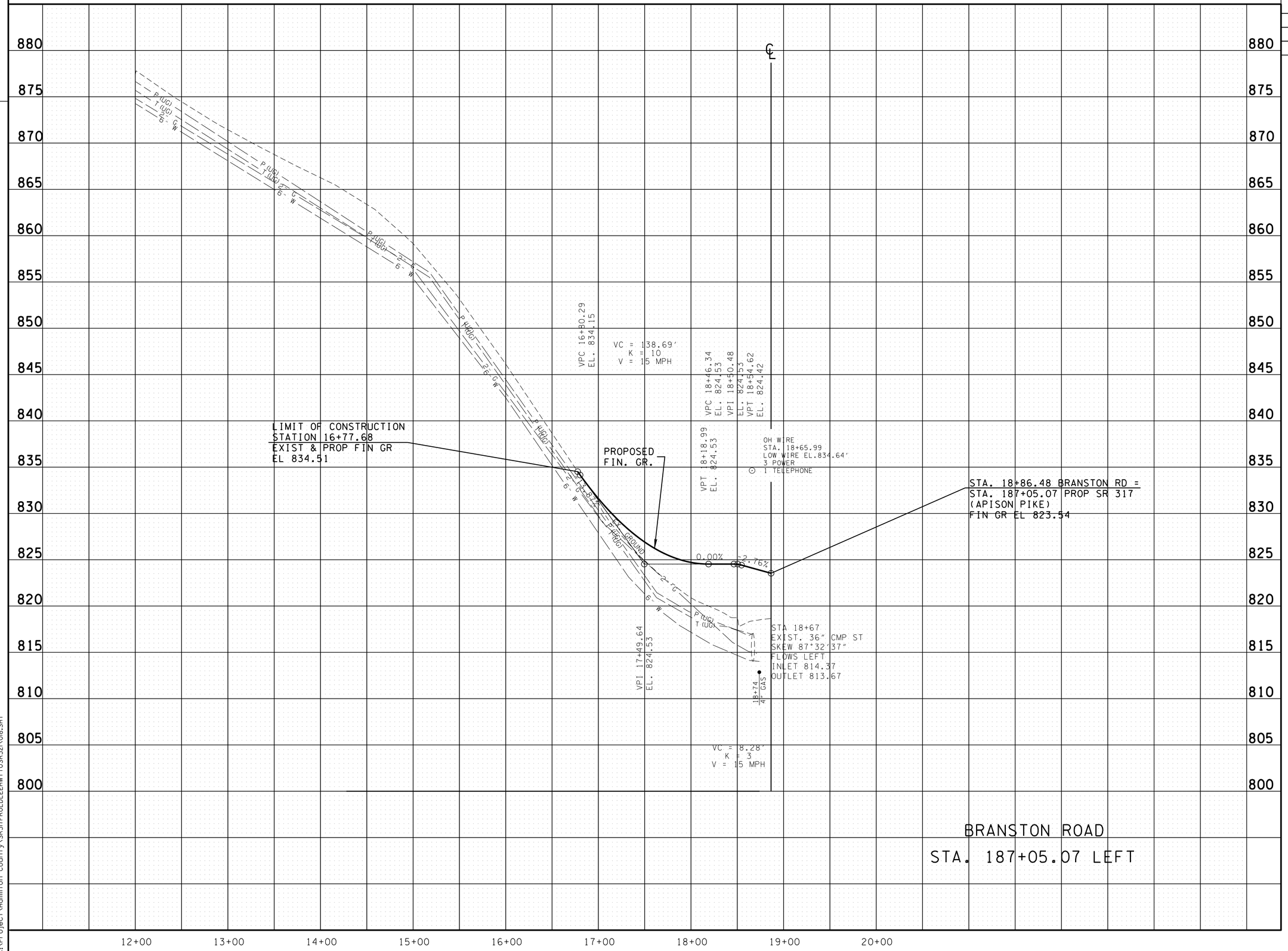
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 18 |
| CONST. | 2014 | STP/NH-317(14) | 18 |




**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-JUN-2014 08:15
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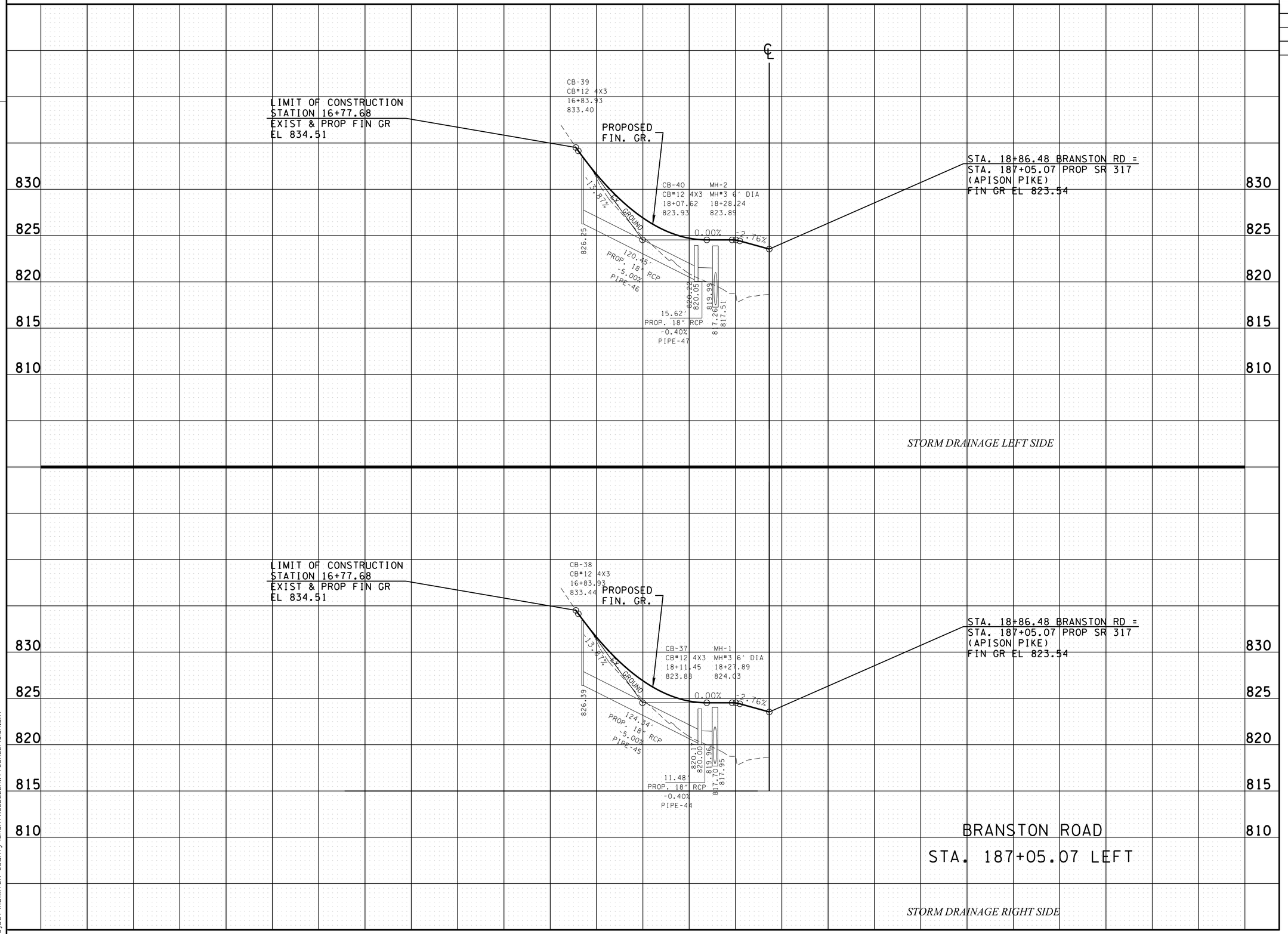
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 18A |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORM DRAINAGE PROFILE

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

8-JUN-2014 08:15
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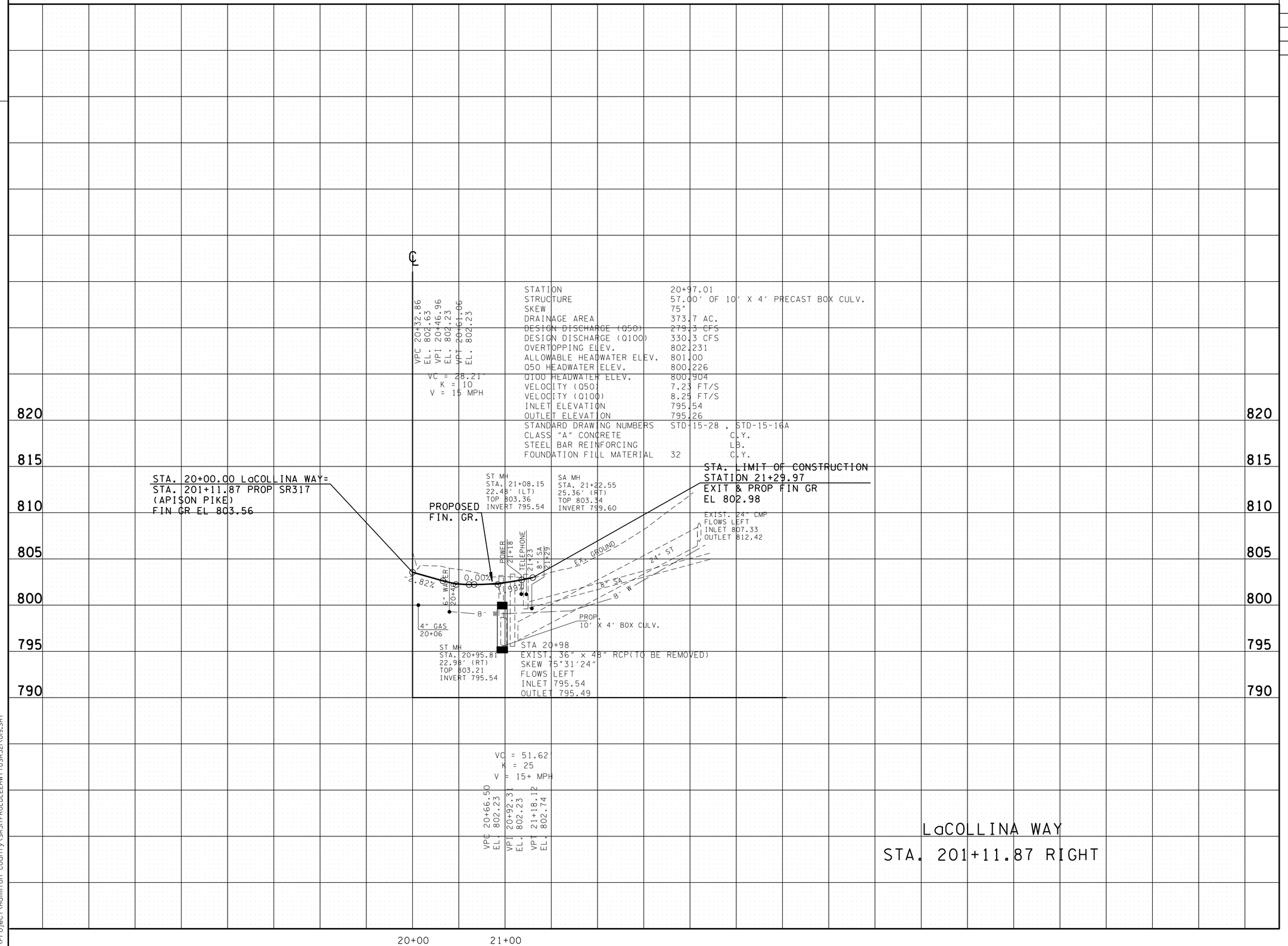
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

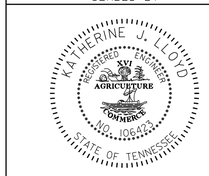
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 19 |
| CONST. | 2014 | STP/NH-317(14) | 19 |
| | | | |
| | | | |




**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-JUN-2014 08:15
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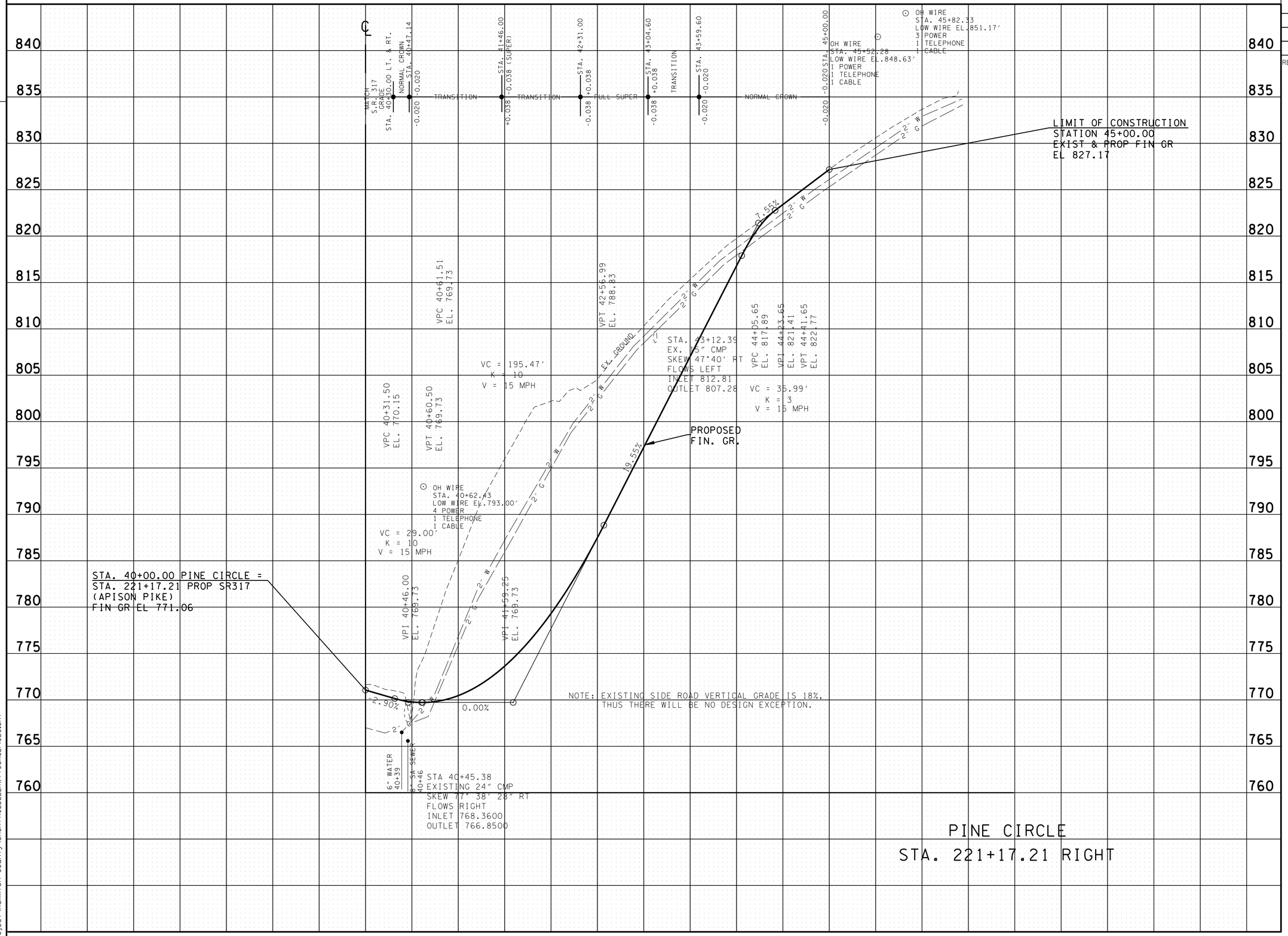
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 20 |
| CONST. | 2014 | STP/NH-317(14) | 20 |

REV. 06-14-13: ADJUSTED DRAINAGE.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE OF SIDE ROADS AND STREETS

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

8-JUN-2014 08:15
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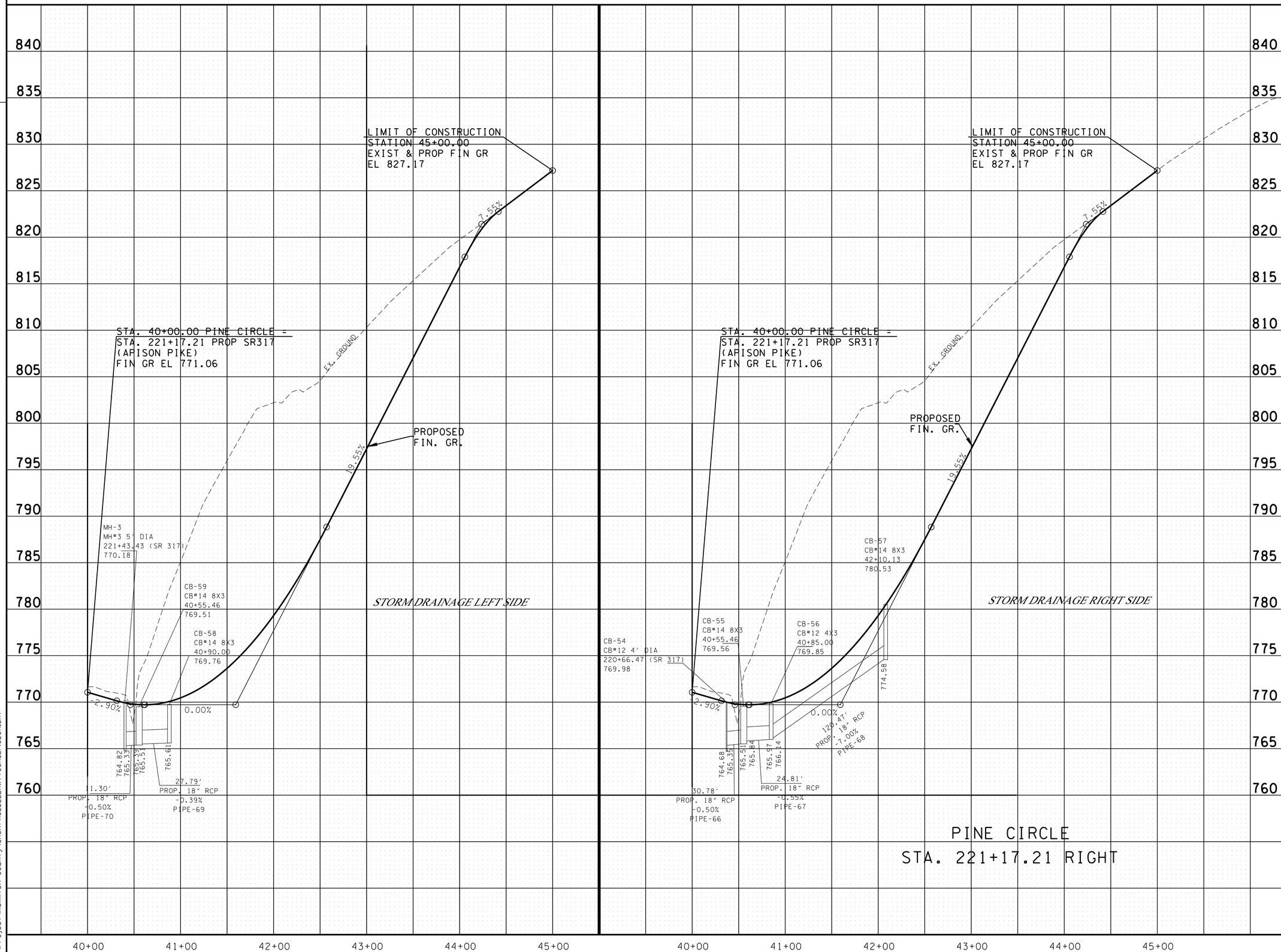
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 20A |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# STORM DRAINAGE PROFILE

STA.40 +00 TO STA.45 +00

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

28-JUN-2014 08:15
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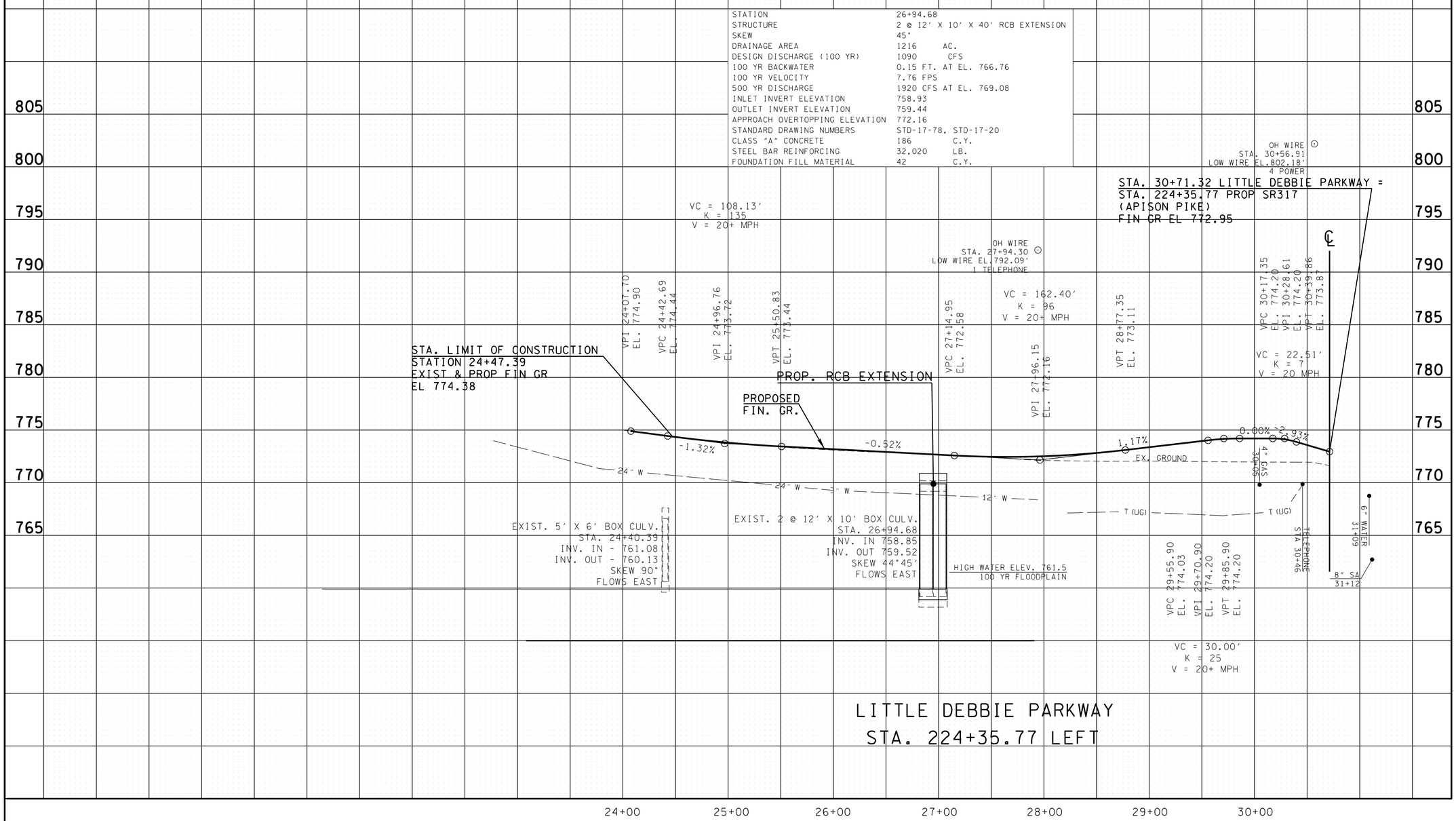
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 21 |
| CONST. | 2014 | STP/NH-317(14) | 21 |

| | |
|---|---|
| STATION | 26+94.68 |
| STRUCTURE | 2 @ 12' X 10' X 40' RCB EXTENSION |
| SKEW | 45° |
| DRAINAGE AREA | 1216 AC. |
| DESIGN DISCHARGE (100 YR) | 1090 CFS |
| 100 YR BACKWATER | 0.15 FT. AT EL. 766.76 |
| 100 YR VELOCITY | 7.76 FPS |
| 500 YR DISCHARGE | 1920 CFS AT EL. 769.08 |
| INLET INVERT ELEVATION | 758.93 |
| OUTLET INVERT ELEVATION | 759.44 |
| APPROACH OVERTOPPING ELEVATION | 772.16 |
| STANDARD DRAWING NUMBERS | STD-17-78, STD-17-20 |
| CLASS "A" CONCRETE | 186 C.Y. |
| STEEL BAR REINFORCING | 32,020 LB. |
| FOUNDATION FILL MATERIAL | 42 C.Y. |




LITTLE DEBBIE PARKWAY
STA. 224+35.77 LEFT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

28-JUN-2014 08:15
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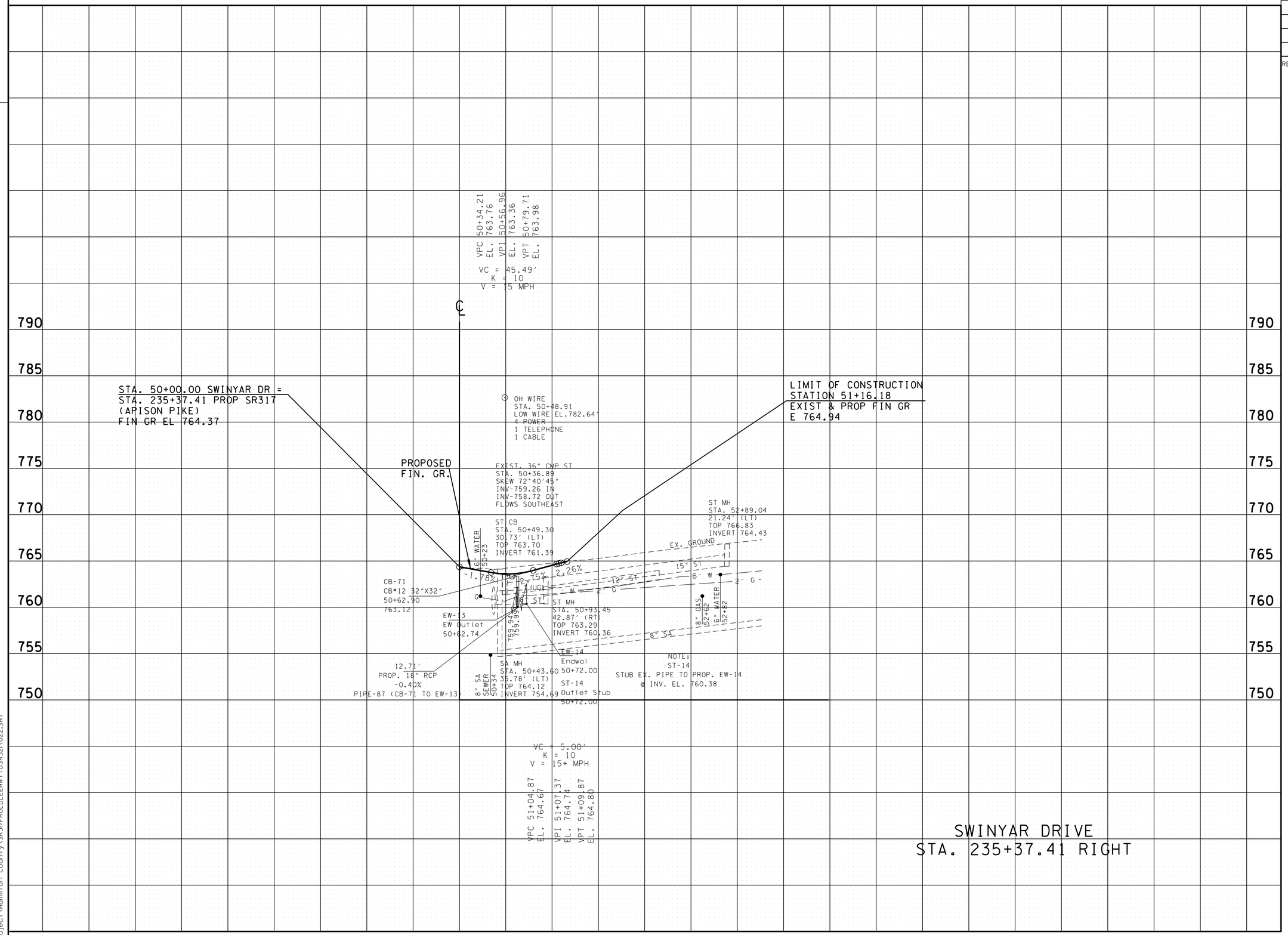
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 22 |
| CONST. | 2014 | STP/NH-317(14) | 22 |
| | | | |
| | | | |

REV. 06-14-13: ADJUSTED DRAINAGE.




**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-JUN-2014 08:15
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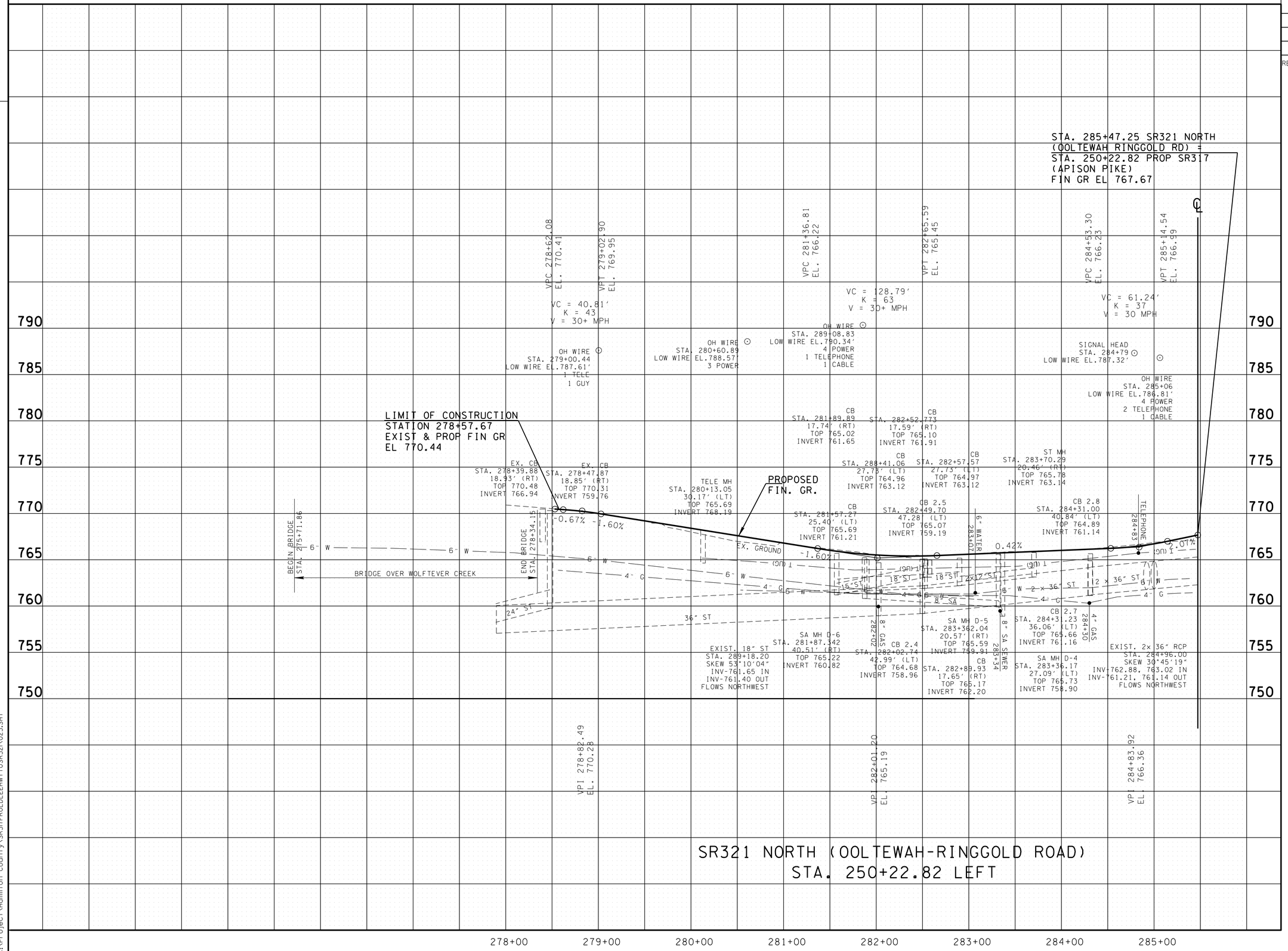
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 23 |
| CONST. | 2014 | STP/NH-317(14) | 23 |

REV. 06-14-13: ADJUSTED DRAINAGE.




**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.

28-JUN-2014 08:15
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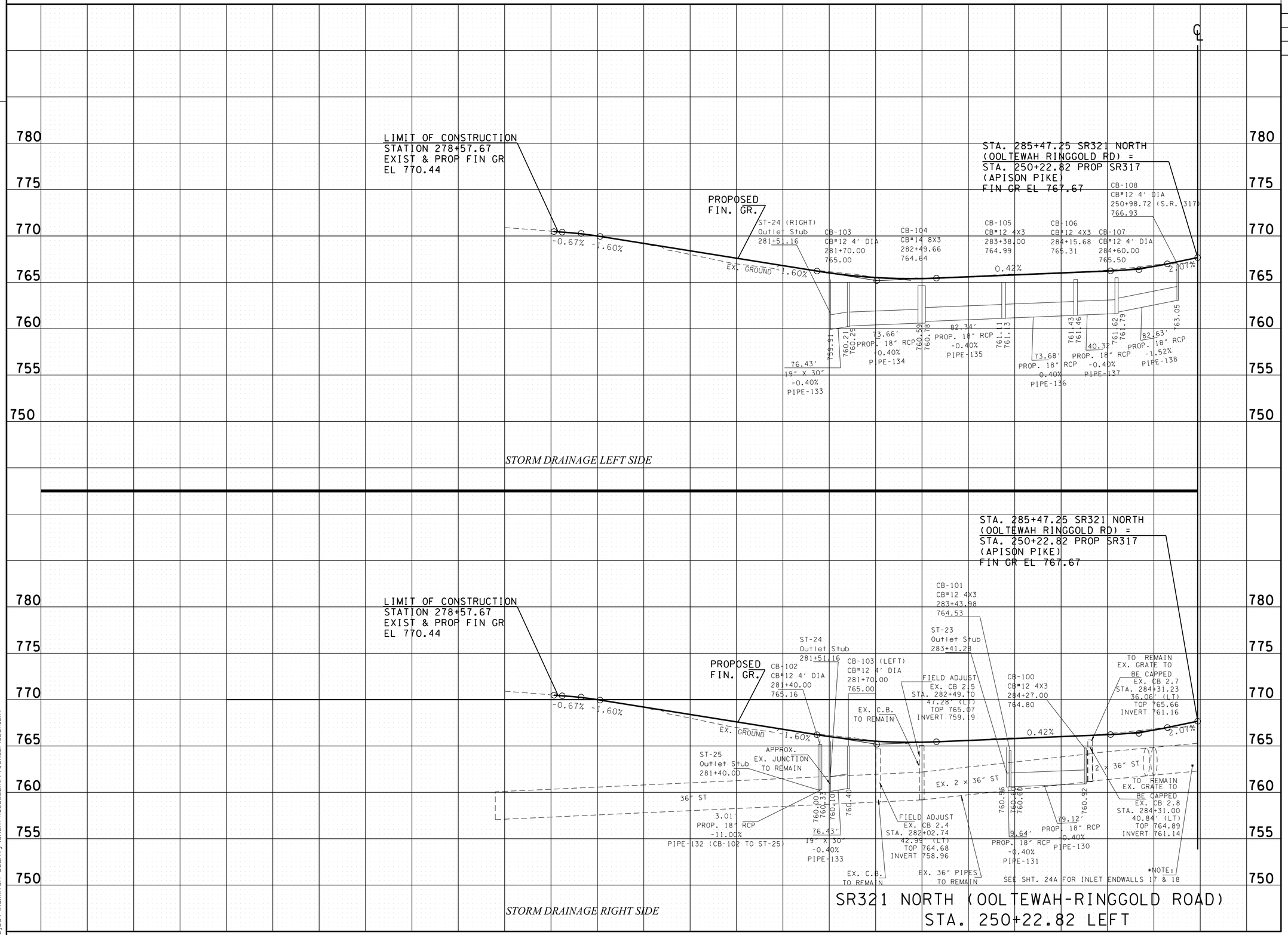
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

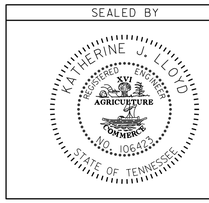
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 23A |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**STORM DRAINAGE PROFILE**

STA.278 +57 TO STA.285 +47

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

8-JUN-2014 08:15
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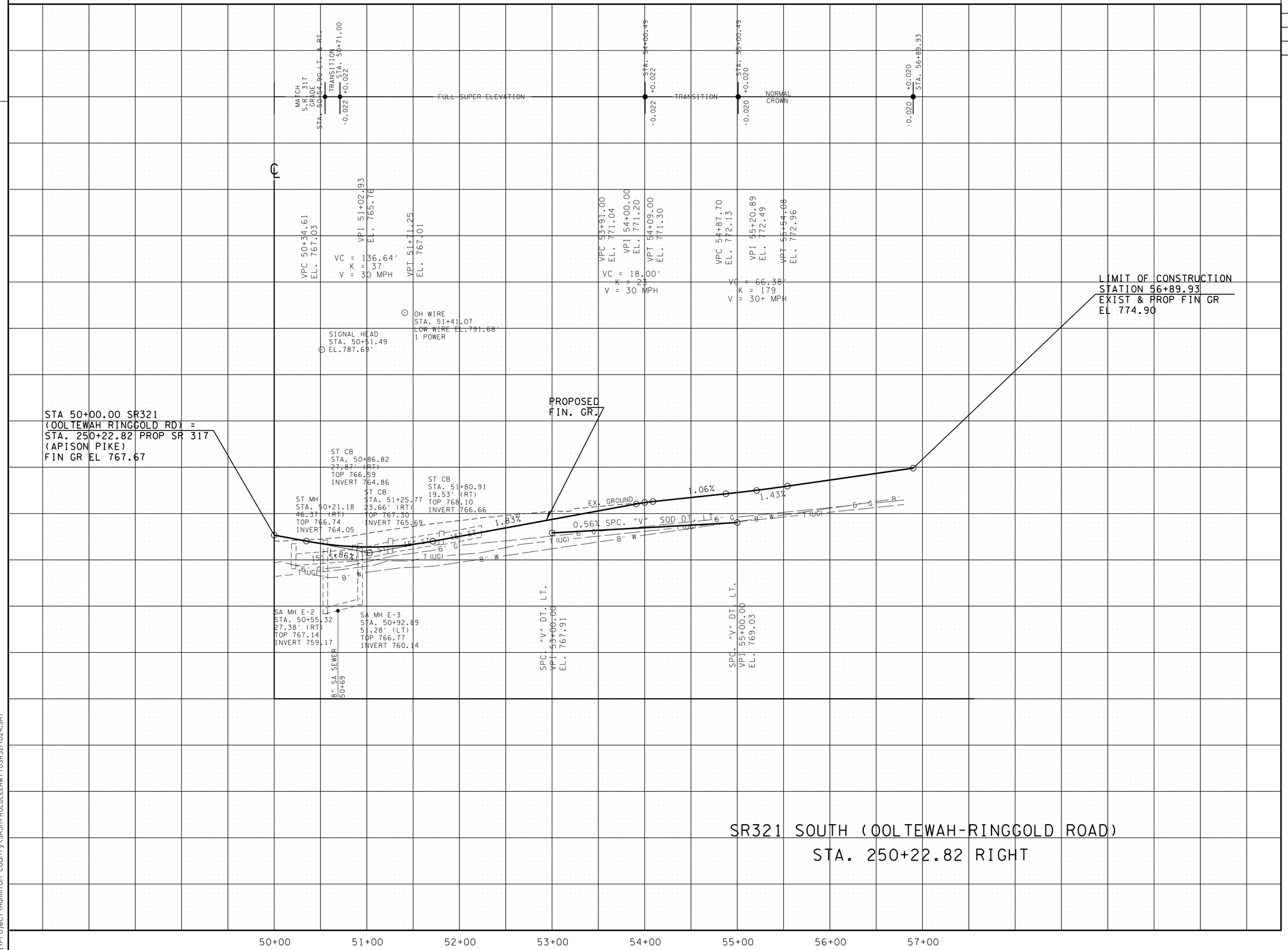
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

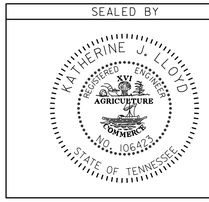
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 24 |
| CONST. | 2014 | STP/NH-317(14) | 24 |
| | | | |
| | | | |




**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-JUN-2014 08:15
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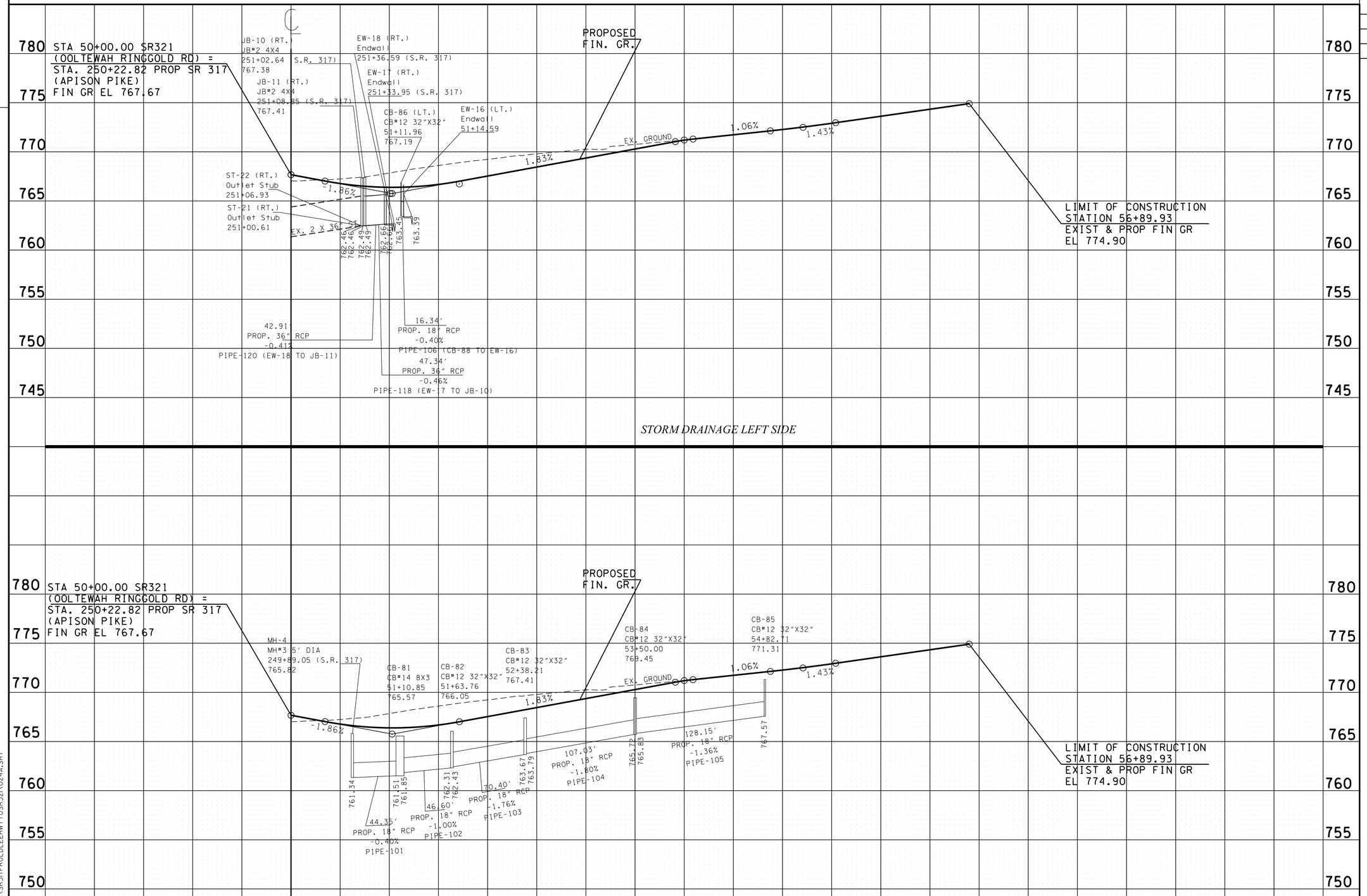
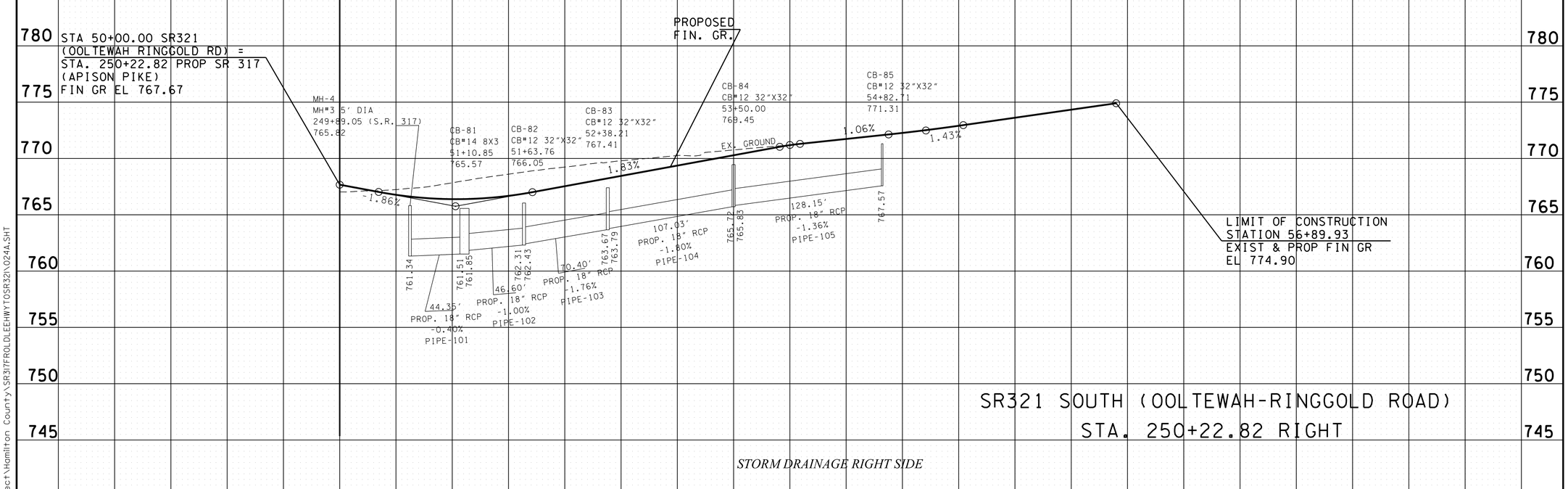
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 24A |




*STORM DRAINAGE LEFT SIDE*




SR321 SOUTH (OOLTEWAH-RINGGOLD ROAD)
STA. 250+22.82 RIGHT

*STORM DRAINAGE RIGHT SIDE*

**UNOFFICIAL SET**
**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**STORM DRAINAGE PROFILE**

STA.50 +00 TO STA.56 +89

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

28-JUN-2014 08:15
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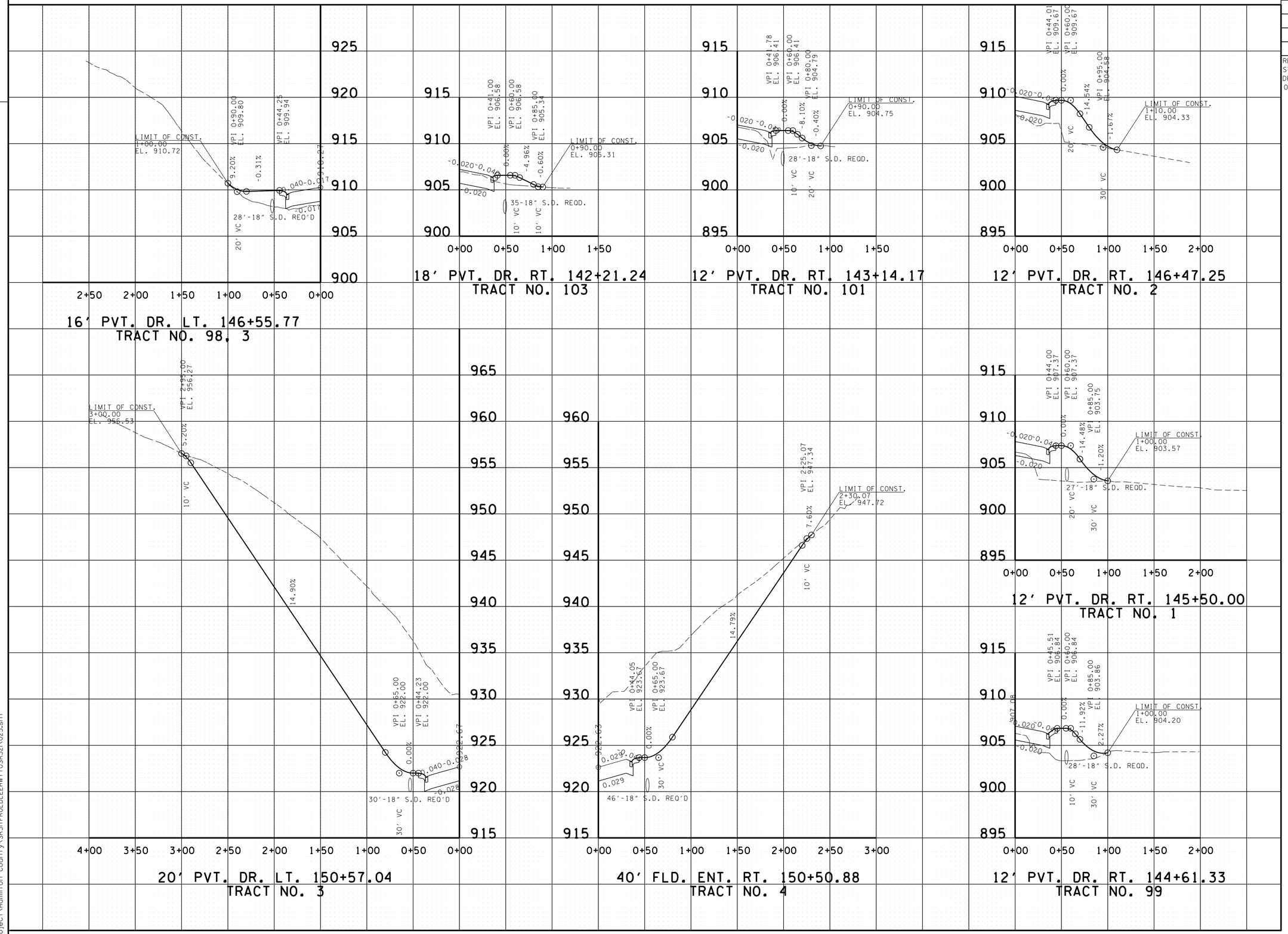
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 25 |
| CONST. | 2014 | STP/NH-317(14) | 25 |
| | | | |
| | | | |

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50.00 RT. AND WIDEN 12' TO 20' DRIVEWAY STA. 150+57.04 LT. ON TRACT 3 PER OWNERS' REQUEST.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE OF PRIVATE DRIVES

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

08-JUN-2014 08:15
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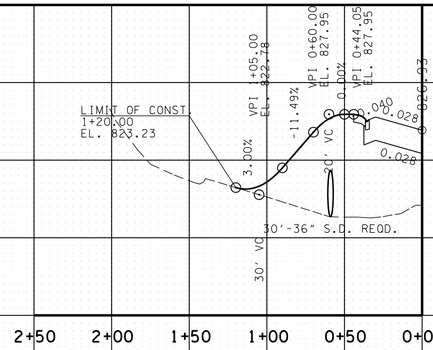
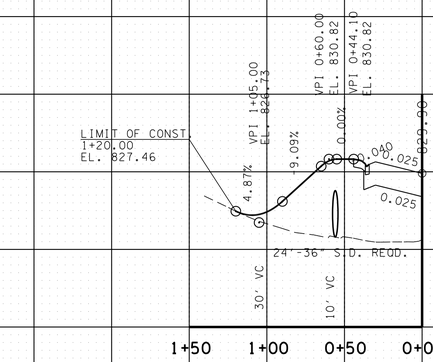
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 26 |
| CONST. | 2014 | STP/NH-317(14) | 26 |
| | | | |
| | | | |

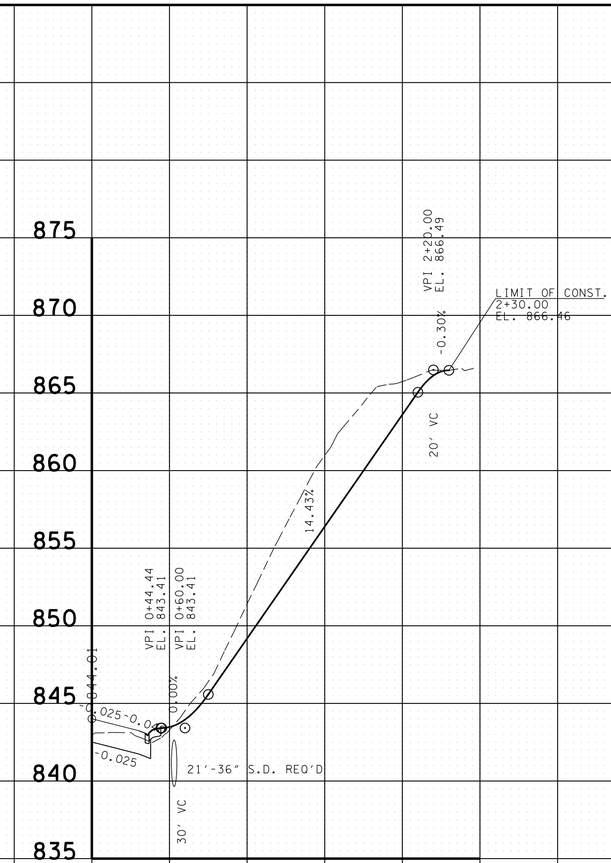
REV. 05-09-14: SHIFTED ACCESS DR. RT. FROM STA. 174+00 TO 173+98 ON TRACT 4.



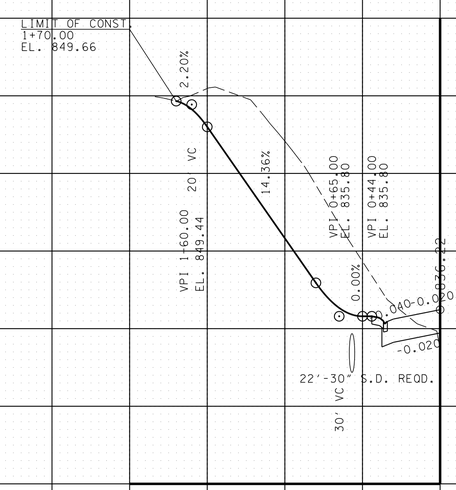

12' PVT. DR. LT. 184+98.68
TRACT NO. 14



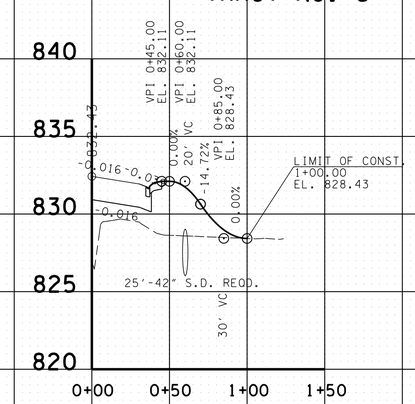

12' PVT. DR. LT. 183+18.02
TRACT NO. 12



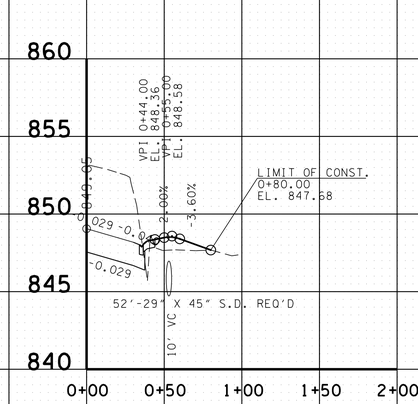

12' PVT. DR. RT. 176+17.26
TRACT NO. 5




12' PVT. DR. LT. 179+52.67
TRACT NO. 7




12' PVT. DR. RT. 181+64.00
TRACT NO. 10




CITY OF COLLEGEDALE PROPOSED
40' ACCESS DR. RT. 173+98.00
TRACT NO. 4

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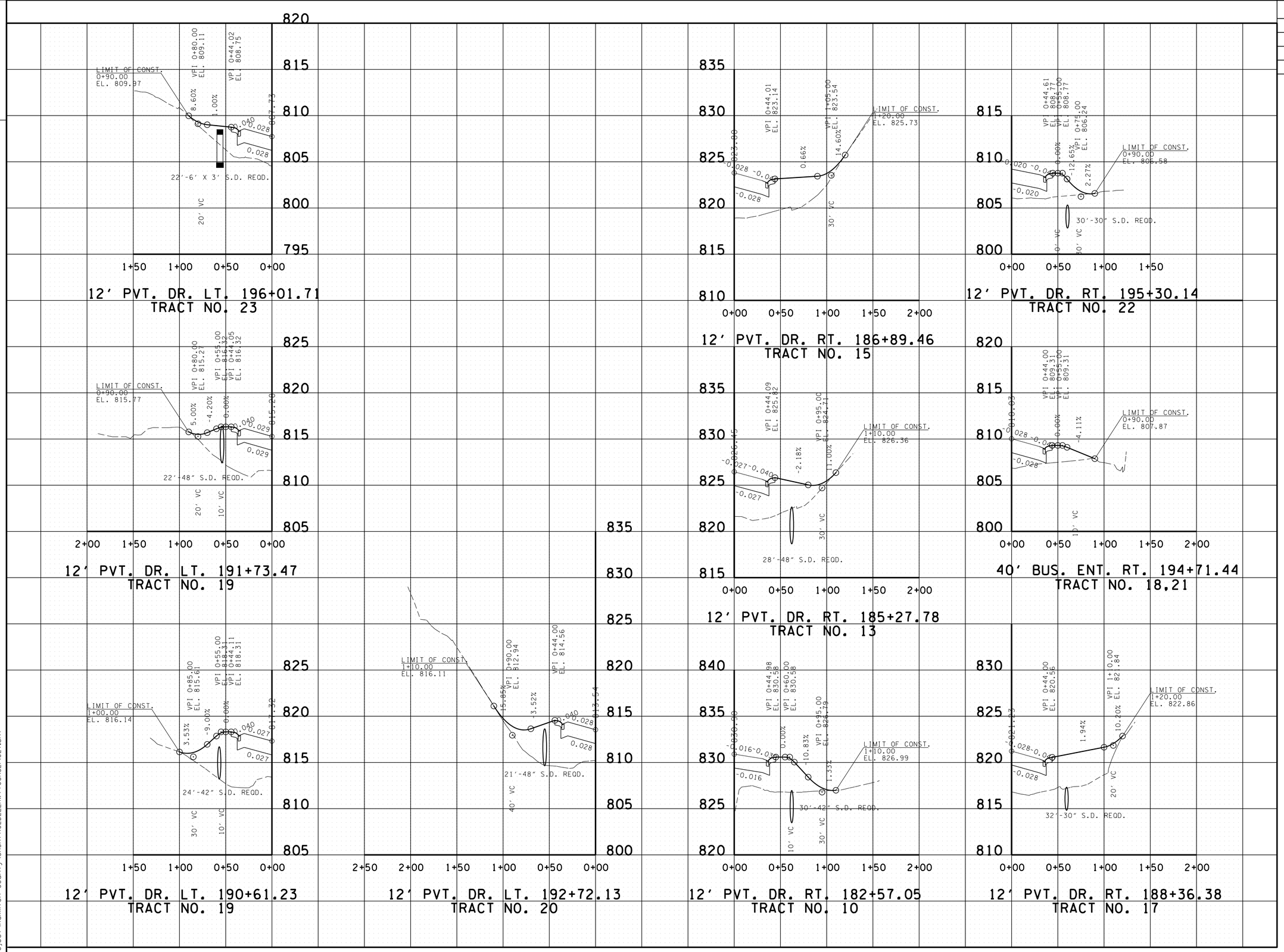
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 27 |
| CONST. | 2014 | STP/NH-317(14) | 27 |
| | | | |
| | | | |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

8-JUN-2014 08:15
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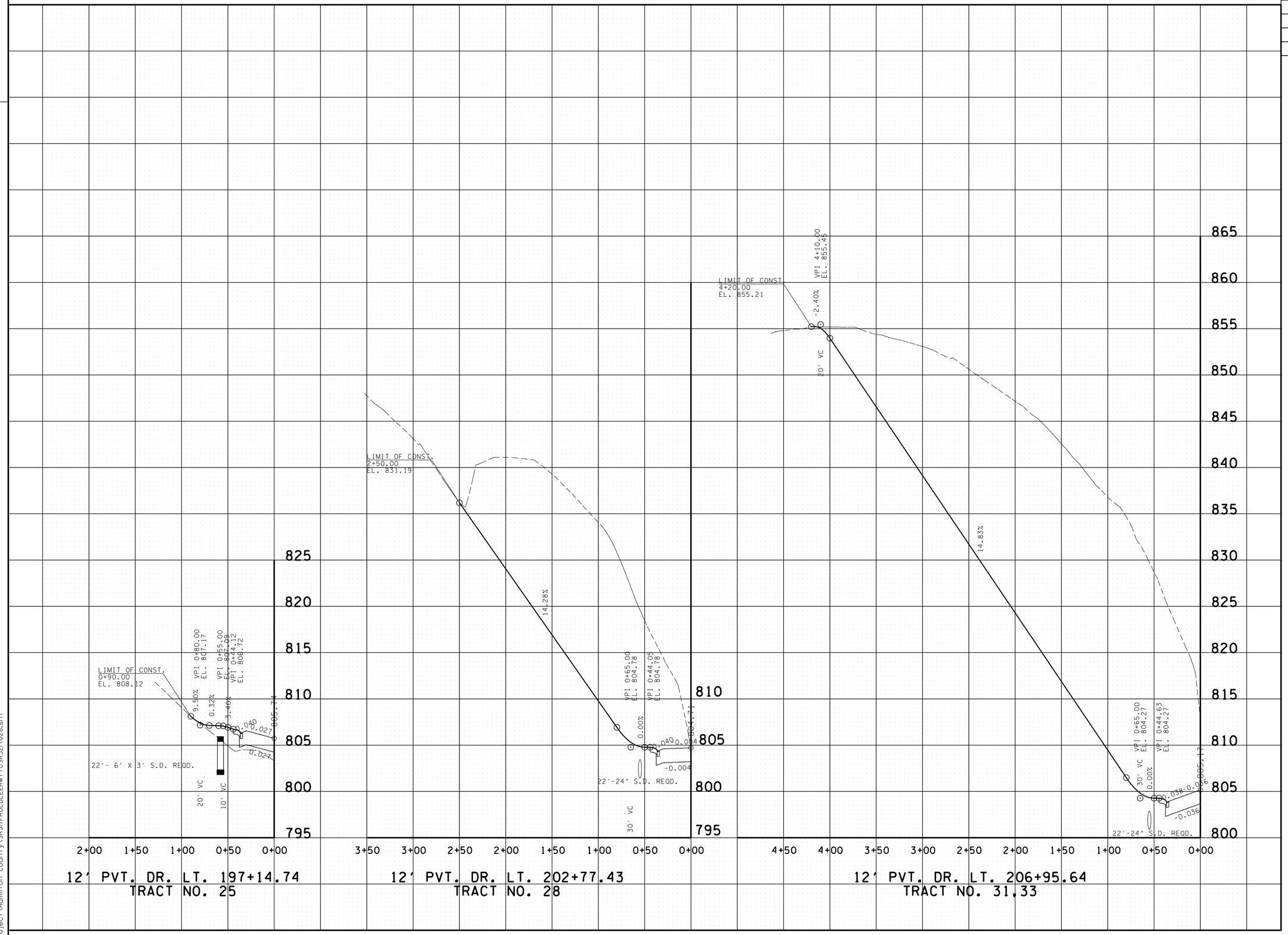
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 28 |
| CONST. | 2014 | STP/NH-317(14) | 28 |
| | | | |
| | | | |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

8-JUN-2014 08:15
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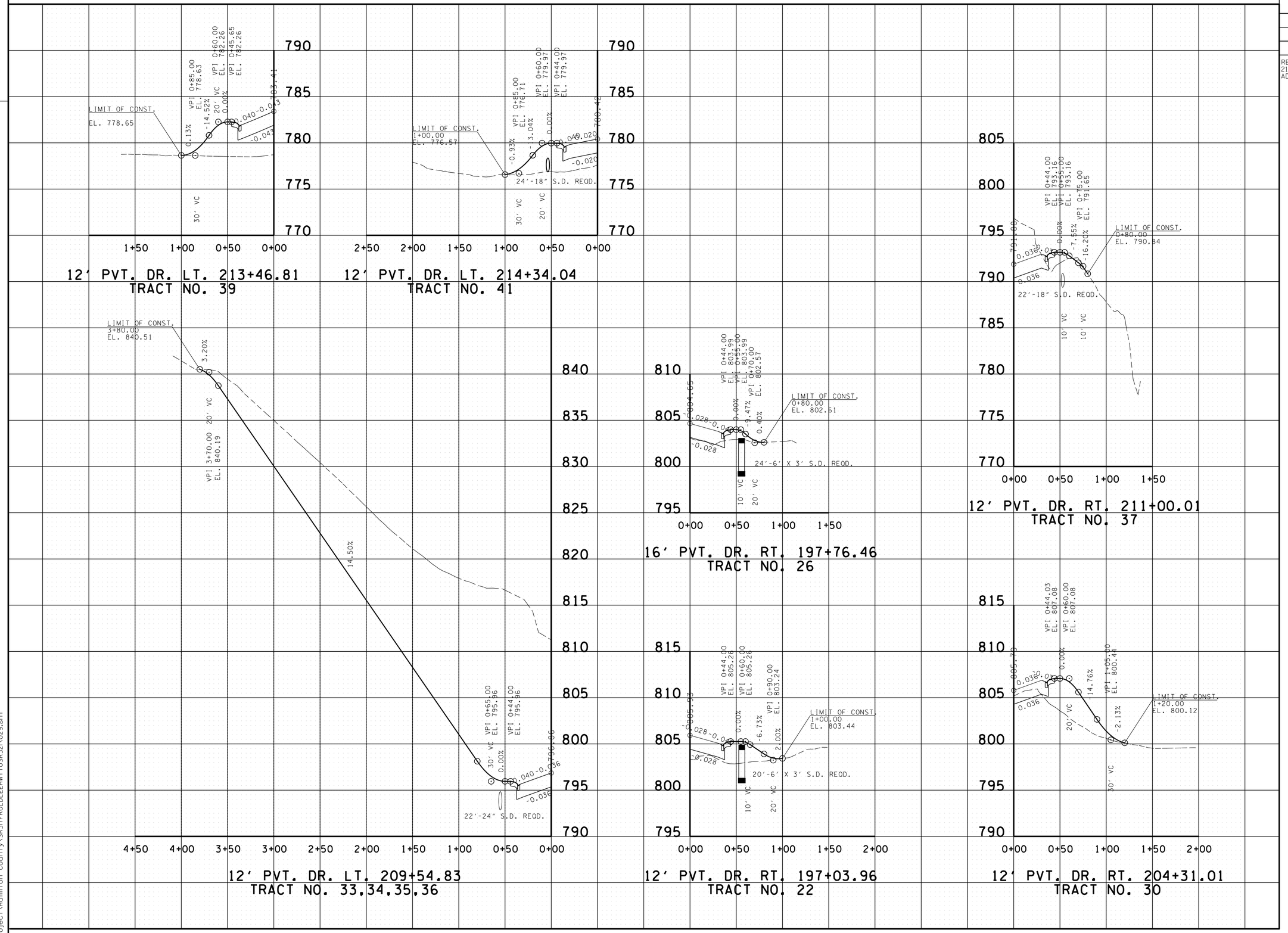
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 29 |
| CONST. | 2014 | STP/NH-317(14) | 29 |

REV. 05-09-14: SHIFTED PVT. DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 ON TRACT 41 AND ADDED SIDE DRAIN.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE OF PRIVATE DRIVES

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

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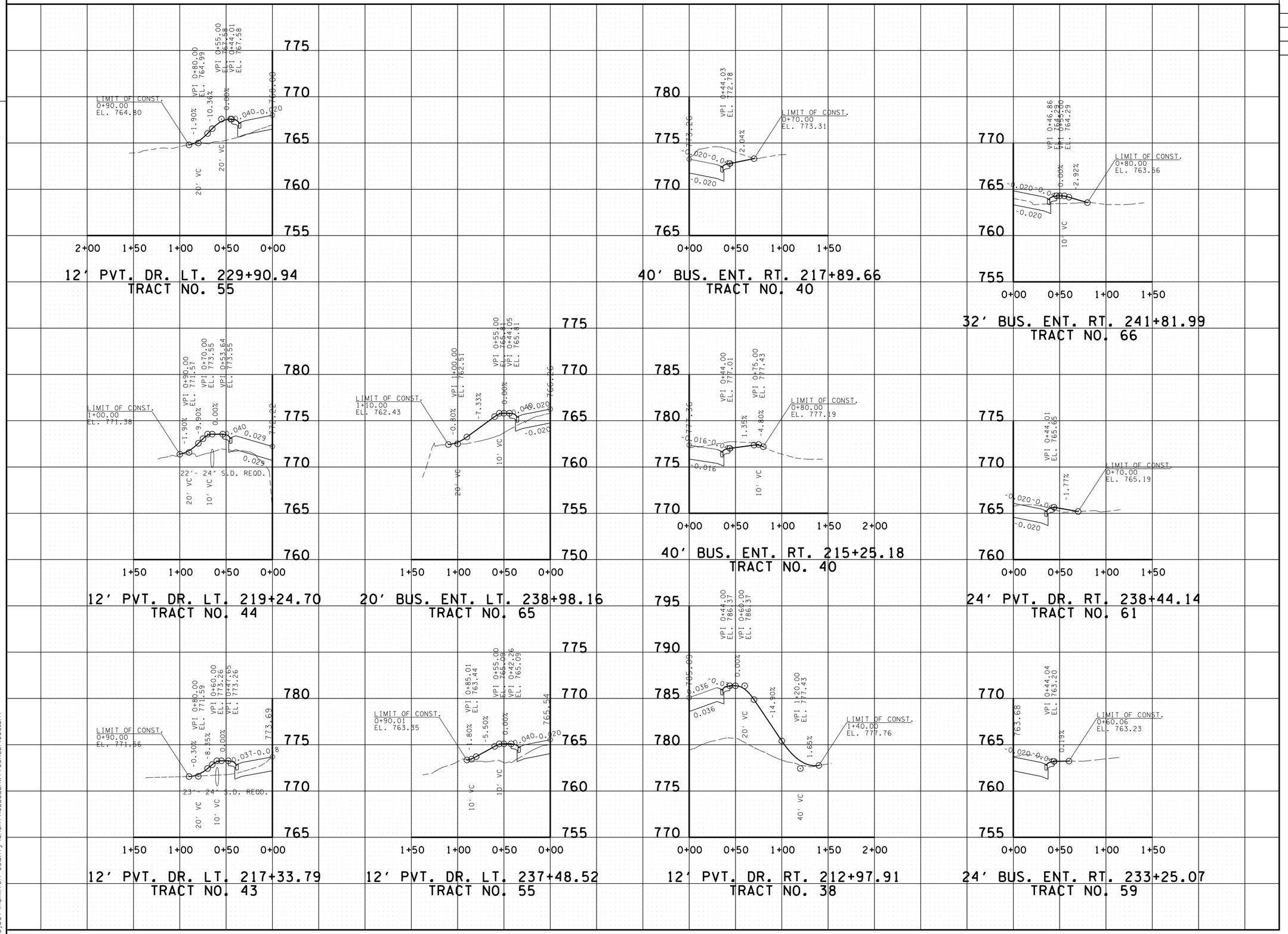
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

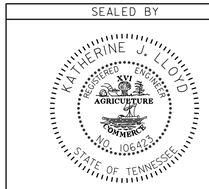
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 30 |
| CONST. | 2014 | STP/NH-317(14) | 30 |




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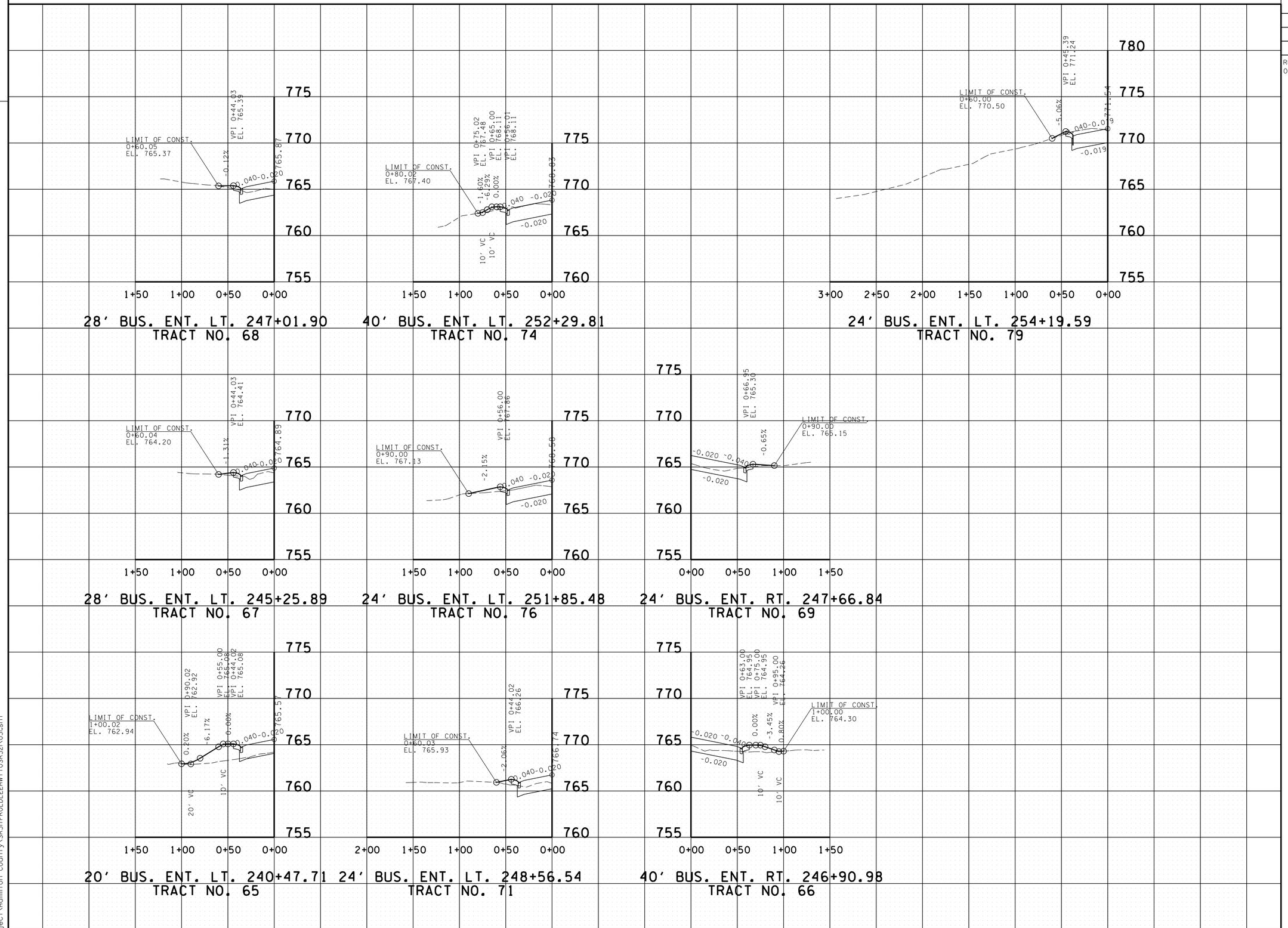
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 31 |
| CONST. | 2014 | STP/NH-317(14) | 31 |
| | | | |
| | | | |

REV. 11-28-12: ELIMINATED PROP. DRIVEWAYS ON TRACT 73. ADDED DRIVEWAY TO TRACT 79.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROFILE OF PRIVATE DRIVES

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

28-JUN-2014 08:15
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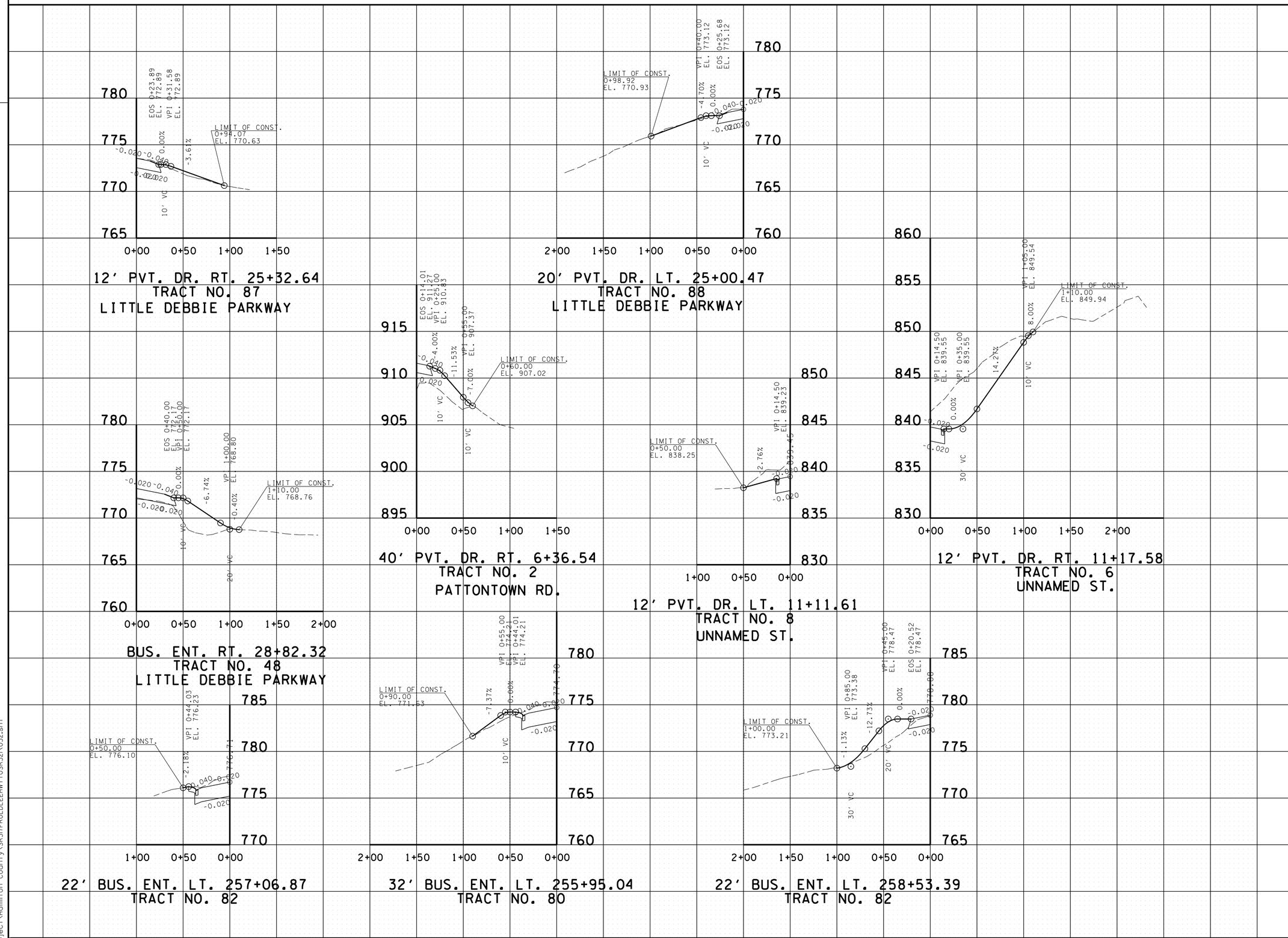
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 32 |
| CONST. | 2014 | STP/NH-317(14) | 32 |

REV. 11-28-12: ADJUSTED DRIVEWAYS LIMIT OF CONST. & STATIONING ON TRACTS 80 & 82 DUE TO ALIGMENT SHIFT.




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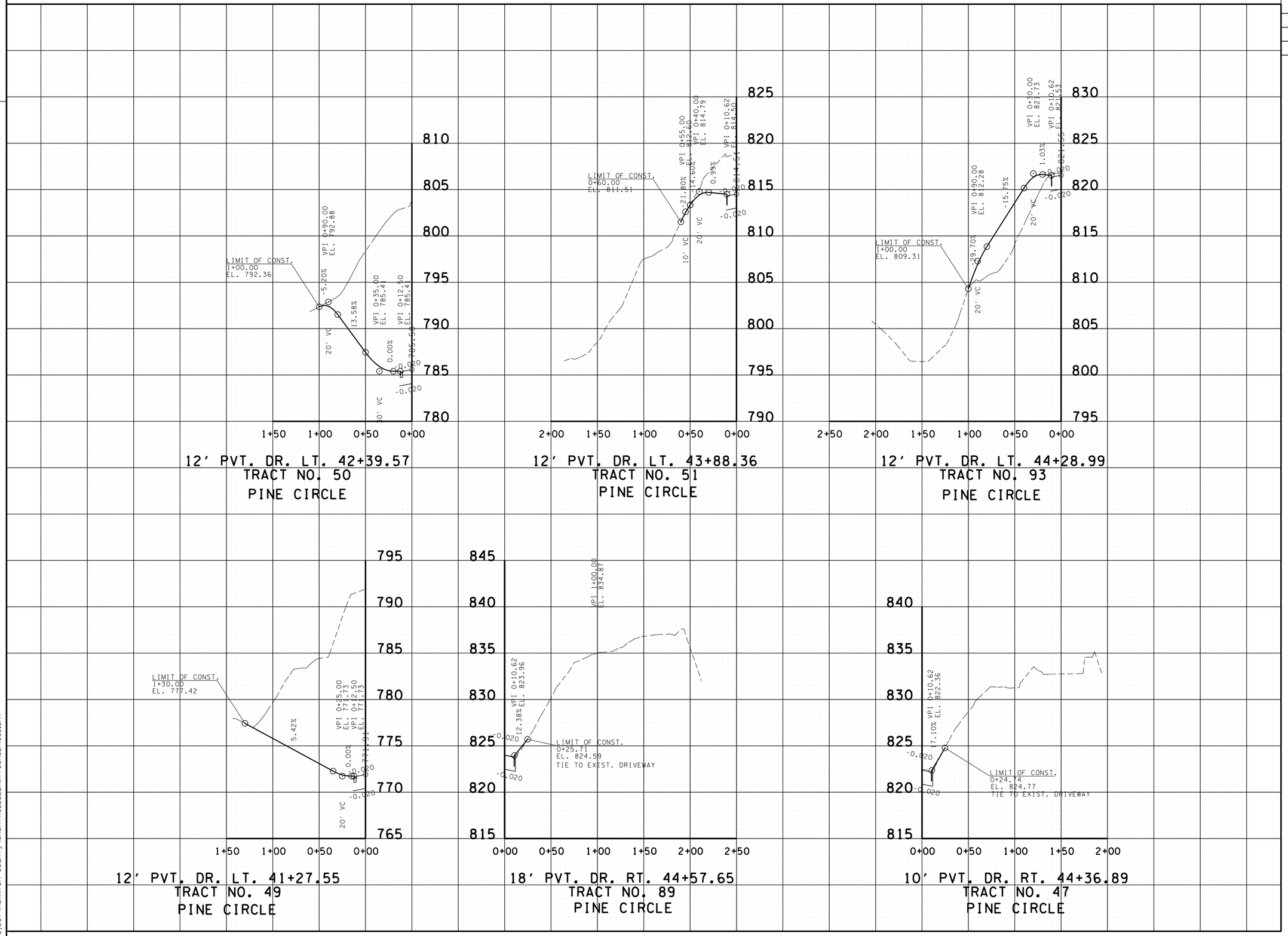
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 33 |
| CONST. | 2014 | STP/NH-317(14) | 33 |
| | | | |
| | | | |




12' PVT. DR. LT. 42+39.57
TRACT NO. 50
PINE CIRCLE

12' PVT. DR. LT. 43+88.36
TRACT NO. 51
PINE CIRCLE

12' PVT. DR. LT. 44+28.99
TRACT NO. 93
PINE CIRCLE

12' PVT. DR. LT. 41+27.55
TRACT NO. 49
PINE CIRCLE

18' PVT. DR. RT. 44+57.65
TRACT NO. 89
PINE CIRCLE

10' PVT. DR. RT. 44+36.89
TRACT NO. 47
PINE CIRCLE

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

8-JUN-2014 08:15
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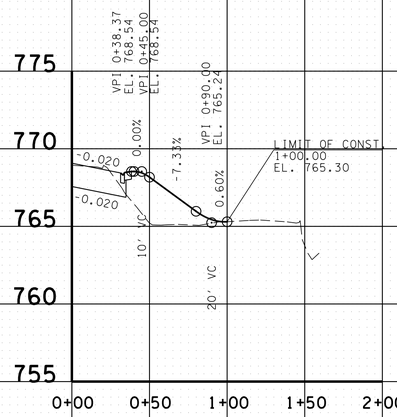
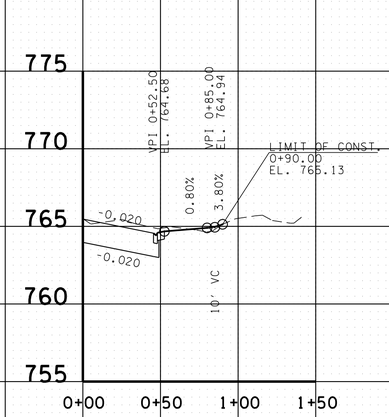
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 34 |
| CONST. | 2014 | STP/NH-317(14) | 34 |

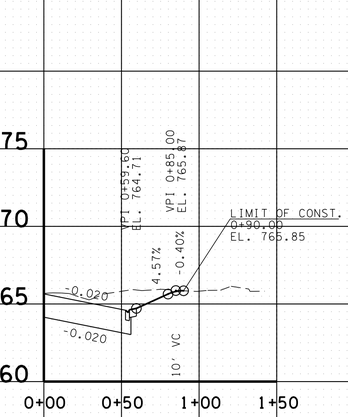
REV. 11-28-12: ADJUSTED DRIVEWAYS LIMIT OF CONST. ON TRACTS 70 & 71 STATIONS 279+58.21 & 282+08.88 RIGHT OF S.R. 321 N.



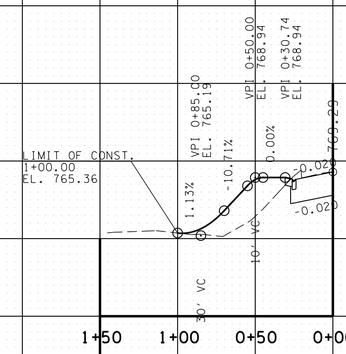

24' BUS. ENT. RT. 279+58.21
TRACT NO. 70
S.R. 321 NORTH



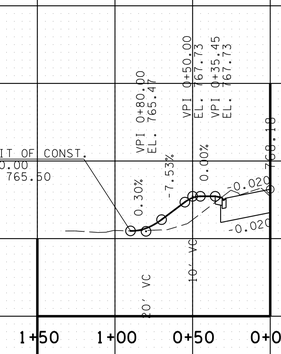

40' BUS. ENT. RT. 282+08.88
TRACT NO. 70, 71, 72
S.R. 321 NORTH



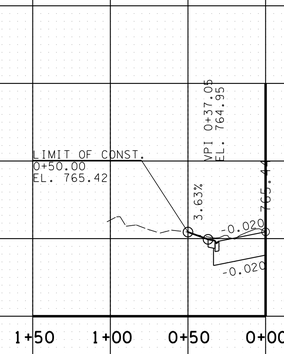

40' BUS. ENT. RT. 283+12.44
TRACT NO. 72, 71
S.R. 321 NORTH



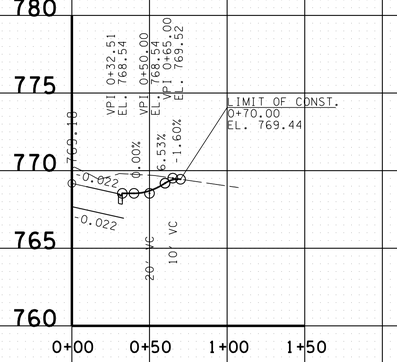

22' BUS. ENT. LT. 279+44.10
TRACT NO. 83
S.R. 321 NORTH



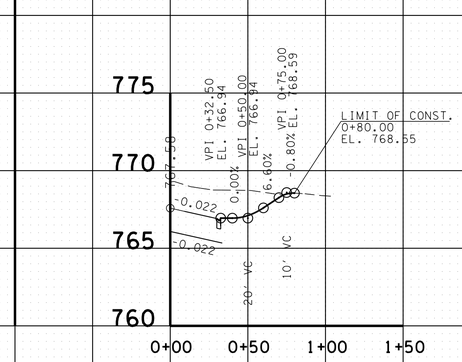

22' BUS. ENT. LT. 280+13.95
TRACT NO. 83
S.R. 321 NORTH



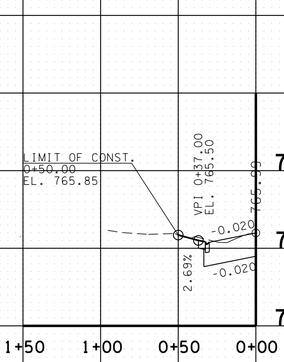

22' BUS. ENT. LT. 282+17.14
TRACT NO. 74, 75
S.R. 321 NORTH



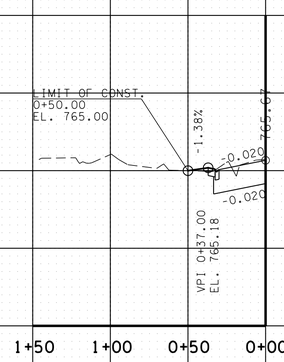

36' BUS. ENT. RT. 52+90.78
TRACT NO. 66
S.R. 321 SOUTH




40' BUS. ENT. RT. 52+02.51
TRACT NO. 69
S.R. 321 SOUTH




32' BUS. ENT. LT. 283+93.56
TRACT NO. 76
S.R. 321 NORTH




32' BUS. ENT. LT. 283+16.76
TRACT NO. 75
S.R. 321 NORTH

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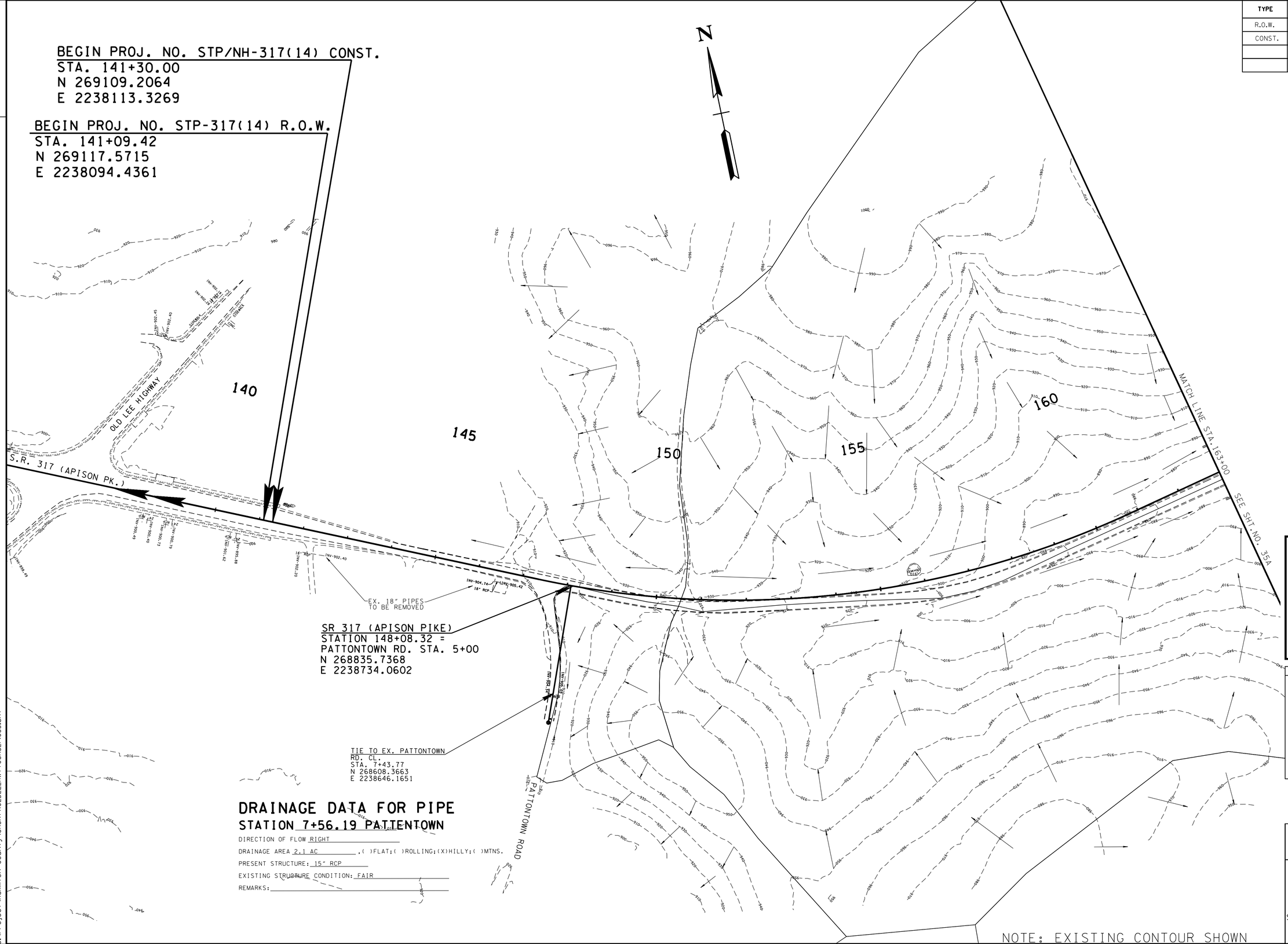
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 35 |
| CONST. | 2014 | STP/NH-317(14) | 35 |
| | | | |
| | | | |




## DRAINAGE DATA FOR PIPE

**STATION 7+56.19 PATTENTOWN**

DIRECTION OF FLOW RIGHT

DRAINAGE AREA 2.1 AC .( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.

PRESENT STRUCTURE: 15" RCP

EXISTING STRUCTURE CONDITION: FAIR

REMARKS:

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
No. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

**STATE OF TENNESSEE**
**DEPARTMENT OF TRANSPORTATION**

# DRAINAGE MAP

STA. 141+30 TO STA. 163+00

SCALE: 1"=100'

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

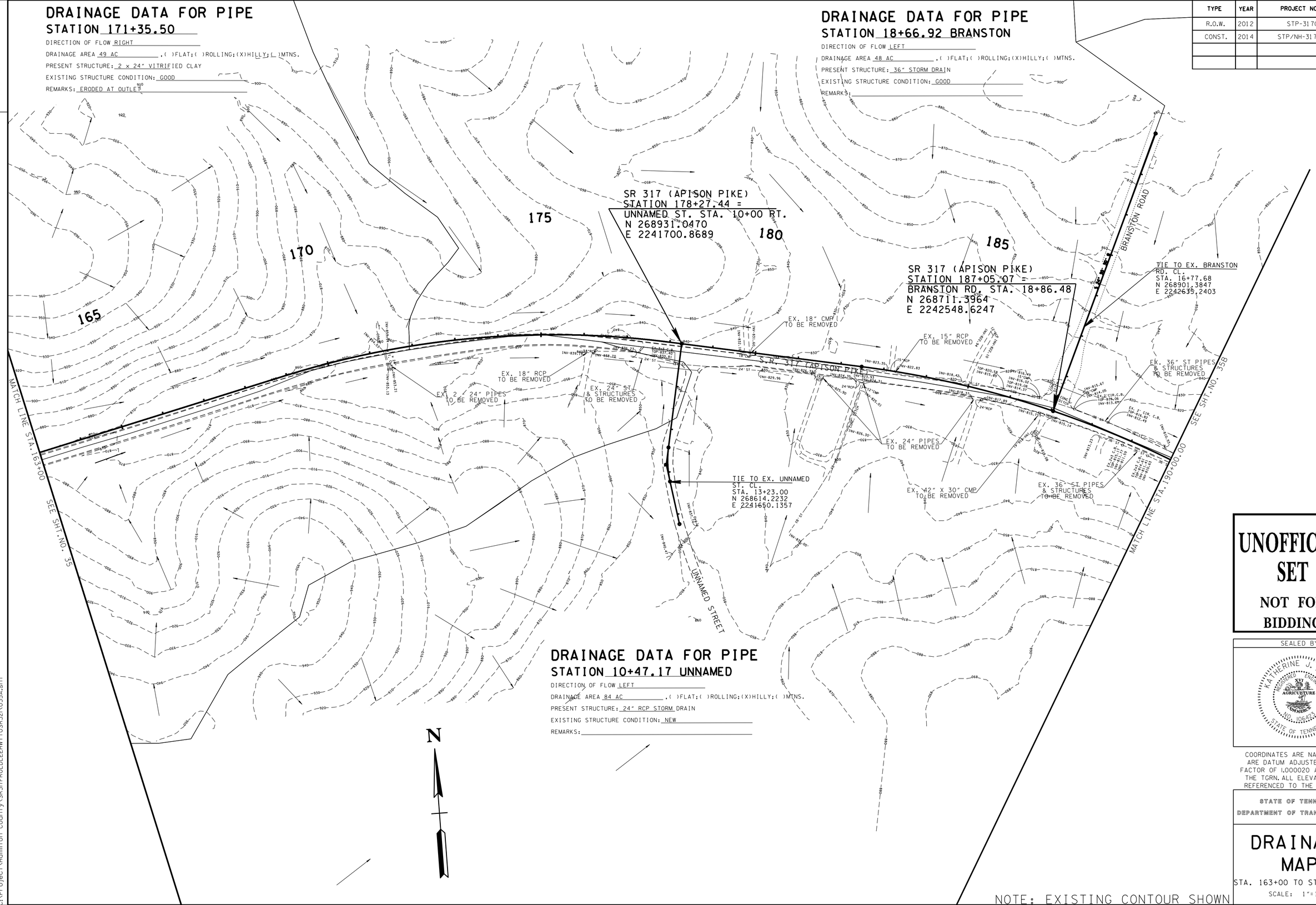
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 35A |
| CONST. | 2014 | STP/NH-317(14) | 35A |
| | | | |
| | | | |

## DRAINAGE DATA FOR PIPE
### STATION 171+35.50

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 49 AC .( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 2 x 24" VITRIFIED CLAY
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: ERODED AT OUTLET

## DRAINAGE DATA FOR PIPE
### STATION 18+66.92 BRANSTON

DIRECTION OF FLOW LEFT
DRAINAGE AREA 48 AC .( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 36" STORM DRAIN
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:




## DRAINAGE DATA FOR PIPE
### STATION 10+47.17 UNNAMED

DIRECTION OF FLOW LEFT
DRAINAGE AREA 84 AC .( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 24" RCP STORM DRAIN
EXISTING STRUCTURE CONDITION: NEW
REMARKS:

NOTE: EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**
**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# DRAINAGE MAP

STA. 163+00 TO STA. 190+00
SCALE: 1"=100'

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

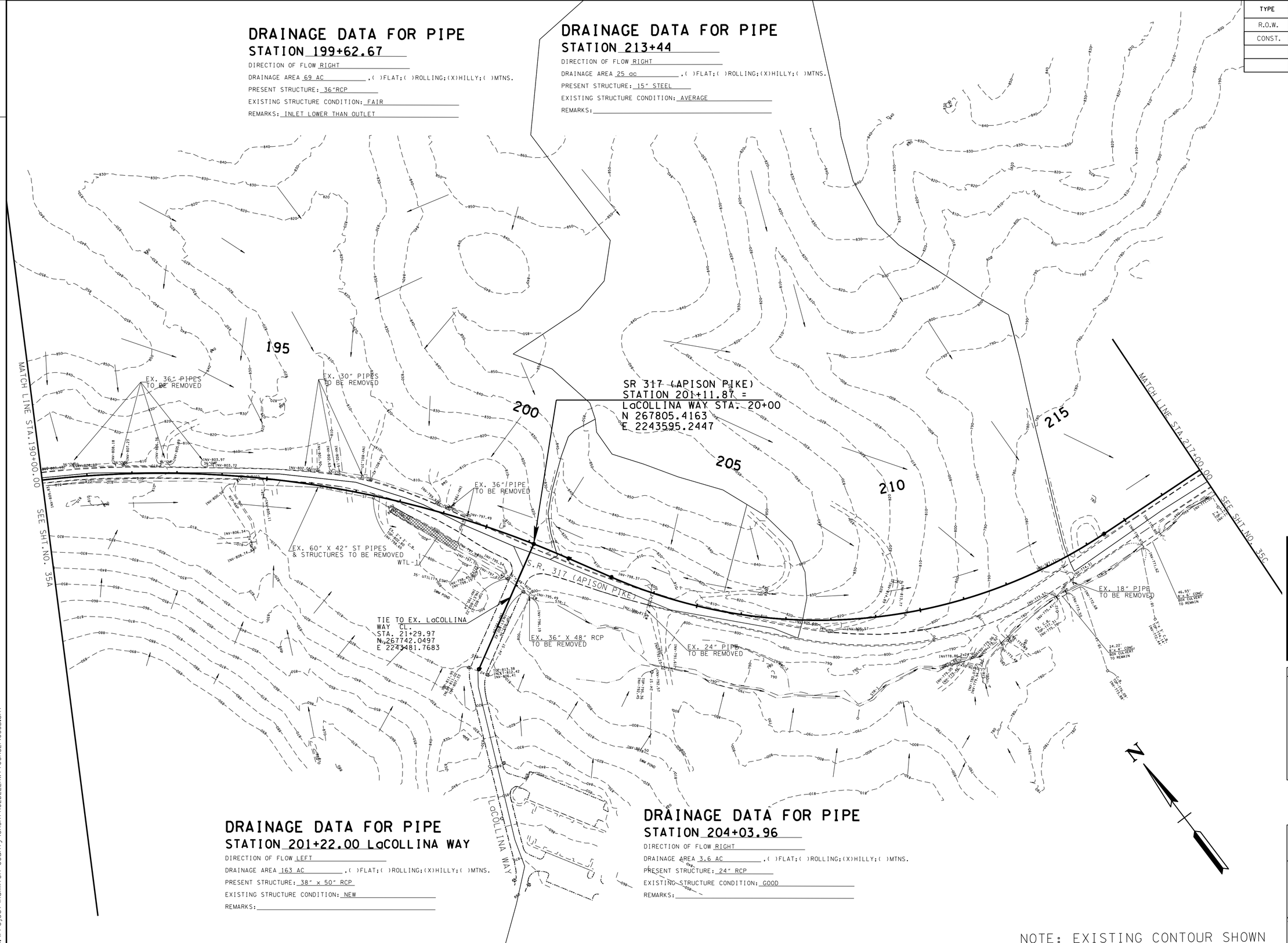
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 35B |
| CONST. | 2014 | STP/NH-317(14) | 35B |
| | | | |
| | | | |

## DRAINAGE DATA FOR PIPE
### STATION 199+62.67

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 69 AC ,( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 36"RCP
EXISTING STRUCTURE CONDITION: FAIR
REMARKS: INLET LOWER THAN OUTLET

## DRAINAGE DATA FOR PIPE
### STATION 213+44

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 25 ac ,( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 15" STEEL
EXISTING STRUCTURE CONDITION: AVERAGE
REMARKS:




## DRAINAGE DATA FOR PIPE
### STATION 201+22.00 LaCOLLINA WAY

DIRECTION OF FLOW LEFT
DRAINAGE AREA 163 AC ,( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 38" x 50" RCP
EXISTING STRUCTURE CONDITION: NEW
REMARKS:

## DRAINAGE DATA FOR PIPE
### STATION 204+03.96

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 3.6 AC ,( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 24" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

NOTE: EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**
**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# DRAINGE MAP

STA. 190+00 TO STA. 217+00
SCALE: 1"=100'

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

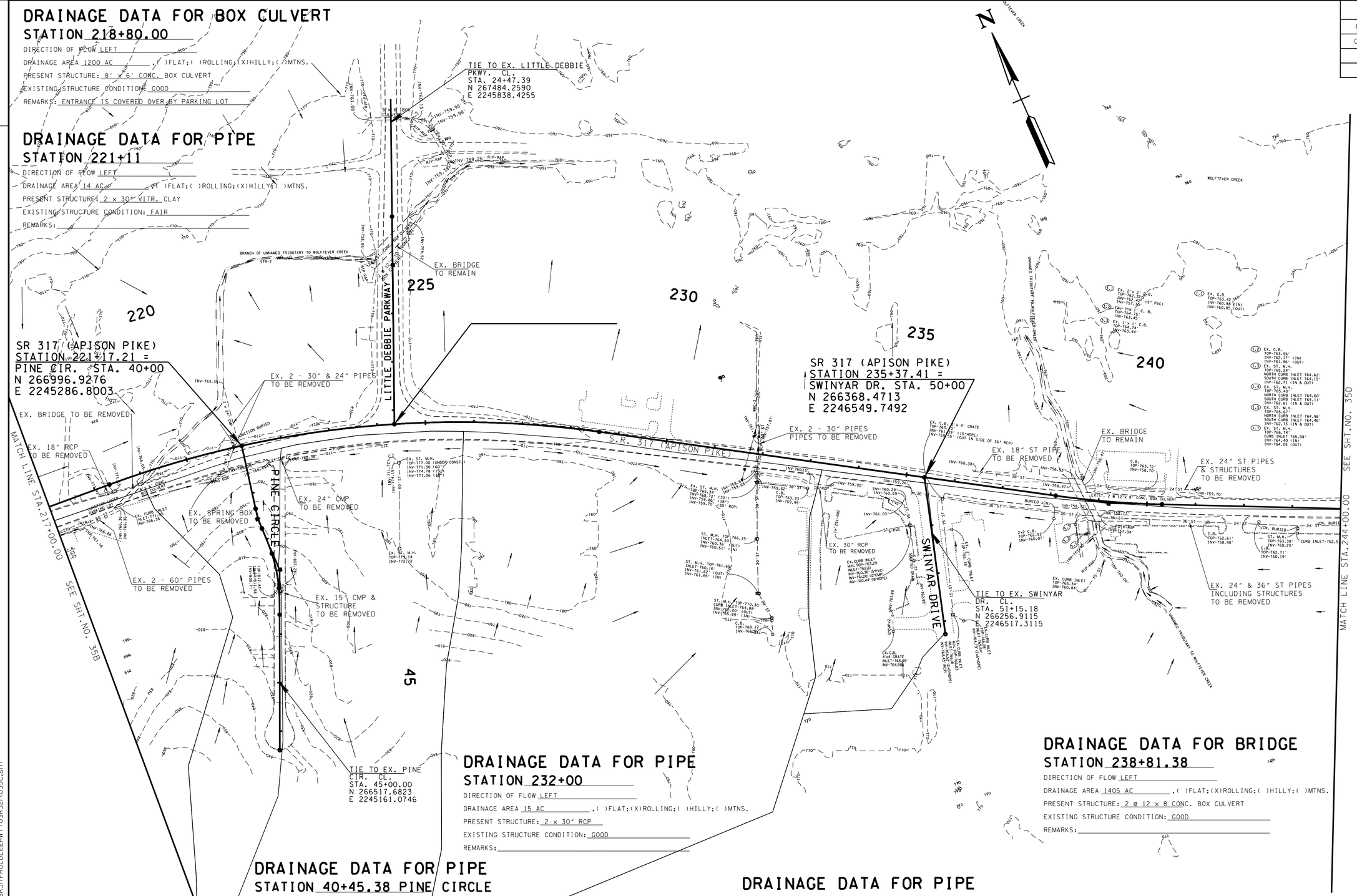
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 35C |
| CONST. | 2014 | STP/NH-317(14) | 35C |
| | | | |
| | | | |

## DRAINAGE DATA FOR BOX CULVERT
### STATION 218+80.00

DIRECTION OF FLOW LEFT
DRAINAGE AREA 1200 AC ,( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 8' x 6' CONC. BOX CULVERT
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: ENTRANCE IS COVERED OVER BY PARKING LOT

## DRAINAGE DATA FOR PIPE
### STATION 221+11

DIRECTION OF FLOW LEFT
DRAINAGE AREA 14 AC ,( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 2 x 30" VITR. CLAY
EXISTING STRUCTURE CONDITION: FAIR
REMARKS:




## DRAINAGE DATA FOR PIPE
### STATION 232+00

DIRECTION OF FLOW LEFT
DRAINAGE AREA 15 AC ,( )FLAT;(X)ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 2 x 30" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

## DRAINAGE DATA FOR BRIDGE
### STATION 238+81.38

DIRECTION OF FLOW LEFT
DRAINAGE AREA 1405 AC ,( )FLAT;(X)ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 2 @ 12 x 8 CONC. BOX CULVERT
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

## DRAINAGE DATA FOR PIPE
### STATION 40+45.38 PINE CIRCLE

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 10 AC ,( )FLAT;( )ROLLING;(X)HILLY;( )MTNS.
PRESENT STRUCTURE: 24" CMP
EXISTING STRUCTURE CONDITION: FAIR
REMARKS:

## DRAINAGE DATA FOR PIPE
### STATION 50+37.91 SWINYAR

DIRECTION OF FLOW LEFT
DRAINAGE AREA 3 AC ,( )FLAT;(X)ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 36" STORM DRAIN
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

NOTE: EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**
**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# DRAINAGE MAP

STA. 217+00 TO STA. 244+00
SCALE: 1"=100'

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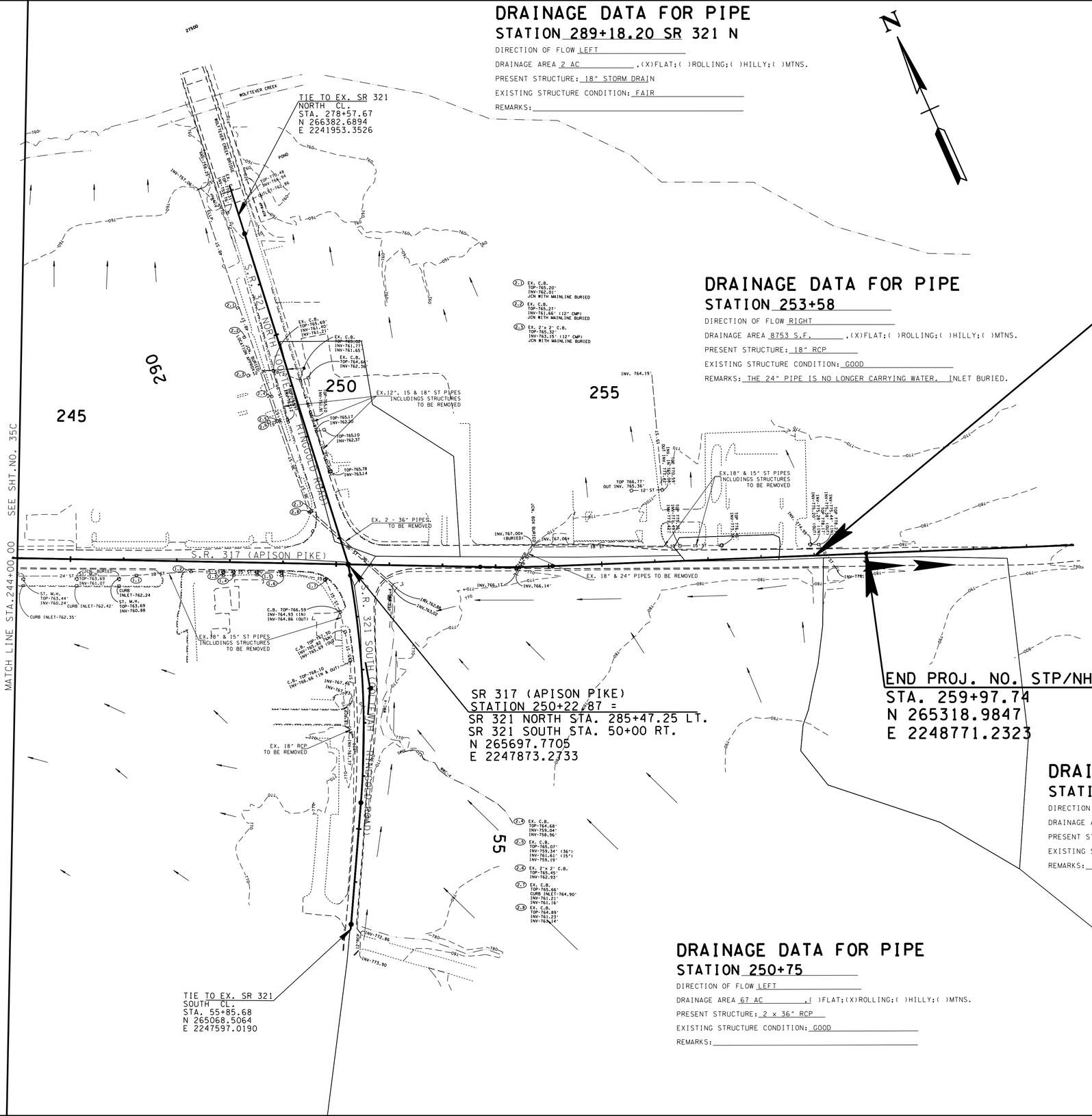
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 35D |
| CONST. | 2014 | STP/NH-317(14) | 35D |
| | | | |
| | | | |

## DRAINAGE DATA FOR PIPE
### STATION 289+18.20 SR 321 N

DIRECTION OF FLOW LEFT
DRAINAGE AREA 2 AC ,(X)FLAT;( )ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 18" STORM DRAIN
EXISTING STRUCTURE CONDITION: FAIR
REMARKS:




## DRAINAGE DATA FOR PIPE
### STATION 253+58

DIRECTION OF FLOW RIGHT
DRAINAGE AREA 8753 S.F. ,(X)FLAT;( )ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 18" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS: THE 24" PIPE IS NO LONGER CARRYING WATER. INLET BURIED.

END PROJ. NO. STP-317(14) R.O.W.
STA. 259+02.16
N 265354.4333
E 2248682.4636

END PROJ. NO. STP/NH-317(14) CONST.
STA. 259+97.74
N 265318.9847
E 2248771.2323

SR 317 (APISON PIKE)
STATION 250+22.87 =
SR 321 NORTH STA. 285+47.25 LT.
SR 321 SOUTH STA. 50+00 RT.
N 265697.7705
E 2247873.2733

## DRAINAGE DATA FOR PIPE
### STATION 259+49

DIRECTION OF FLOW LEFT
DRAINAGE AREA 5 AC ,( )FLAT;(X)ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 24" CMP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

## DRAINAGE DATA FOR PIPE
### STATION 250+75

DIRECTION OF FLOW LEFT
DRAINAGE AREA 67 AC ,( )FLAT;(X)ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 2 x 36" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

NOTE: EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**
**NOT FOR BIDDING**

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# DRAINAGE MAP

STA. 244+00 TO STA. 259+97
SCALE: 1"=100'

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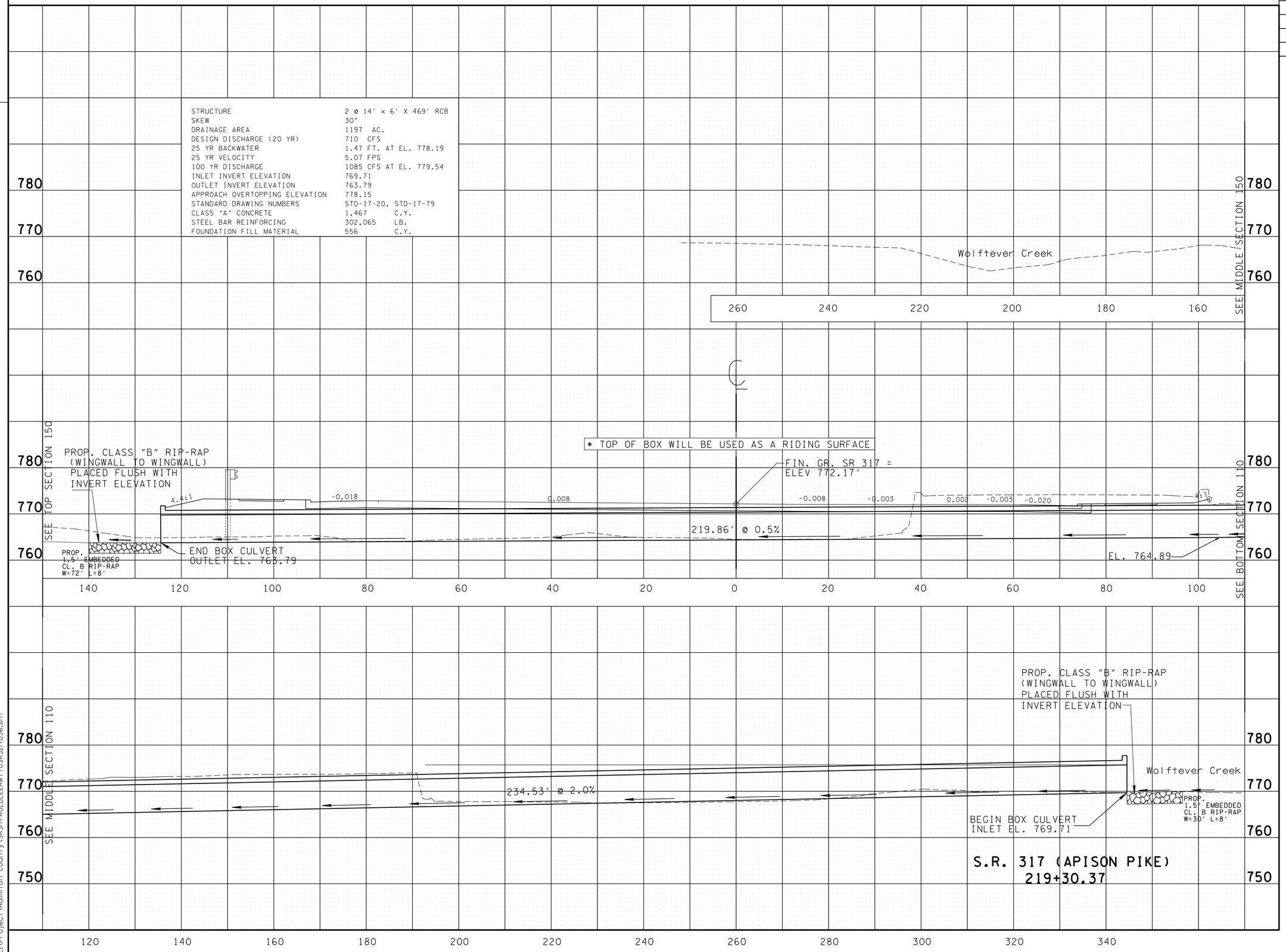
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 36 |
| CONST. | 2014 | STP/NH-317(14) | 36 |

| | |
|---|---|
| STRUCTURE | 2 @ 14' x 6' X 469' RCB |
| SKEW | 30° |
| DRAINAGE AREA | 1197 AC. |
| DESIGN DISCHARGE (20 YR) | 710 CFS |
| 25 YR BACKWATER | 1.47 FT. AT EL. 778.19 |
| 25 YR VELOCITY | 5.07 FPS |
| 100 YR DISCHARGE | 1085 CFS AT EL. 779.54 |
| INLET INVERT ELEVATION | 769.71 |
| OUTLET INVERT ELEVATION | 763.79 |
| APPROACH OVERTOPPING ELEVATION | 778.15 |
| STANDARD DRAWING NUMBERS | STD-17-20, STD-17-79 |
| CLASS "A" CONCRETE | 1,467 C.Y. |
| STEEL BAR REINFORCING | 302,065 LB. |
| FOUNDATION FILL MATERIAL | 556 C.Y. |




S.R. 317 (APISON PIKE)
219+30.37

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
NO. 106422
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# CULVERT CROSS-SECTIONS

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

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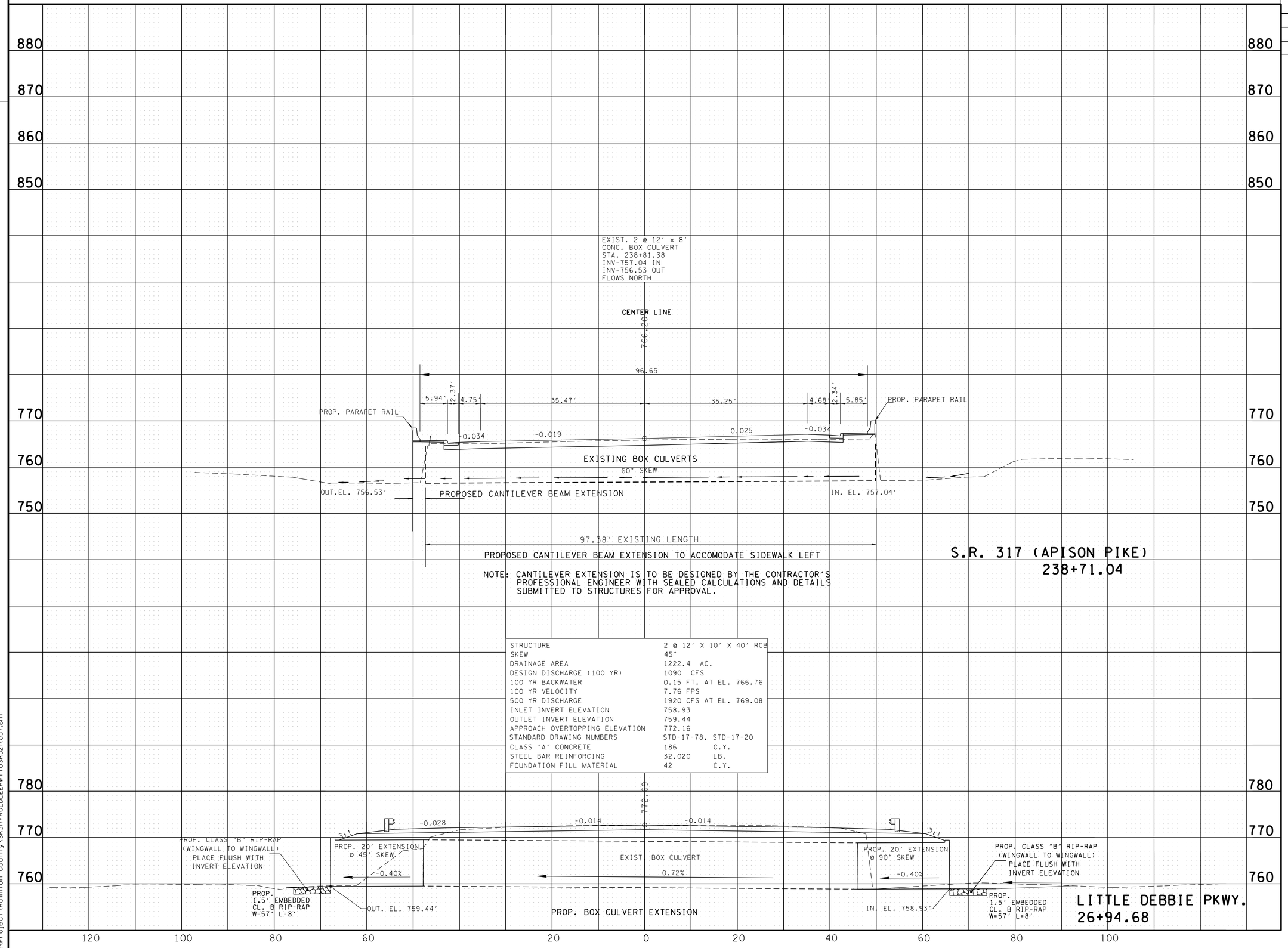
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 37 |
| CONST. | 2014 | STP/NH-317(14) | 37 |




| | |
|---|---|
| STRUCTURE | 2 @ 12' X 10' X 40' RCB |
| SKEW | 45° |
| DRAINAGE AREA | 1222.4 AC. |
| DESIGN DISCHARGE (100 YR) | 1090 CFS |
| 100 YR BACKWATER | 0.15 FT. AT EL. 766.76 |
| 100 YR VELOCITY | 7.76 FPS |
| 500 YR DISCHARGE | 1920 CFS AT EL. 769.08 |
| INLET INVERT ELEVATION | 758.93 |
| OUTLET INVERT ELEVATION | 759.44 |
| APPROACH OVERTOPPING ELEVATION | 772.16 |
| STANDARD DRAWING NUMBERS | STD-17-78, STD-17-20 |
| CLASS "A" CONCRETE | 186 C.Y. |
| STEEL BAR REINFORCING | 32,020 LB. |
| FOUNDATION FILL MATERIAL | 42 C.Y. |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
No. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 38 |
| CONST. | 2014 | STP/NH-317(14) | 38 |
| | | | |
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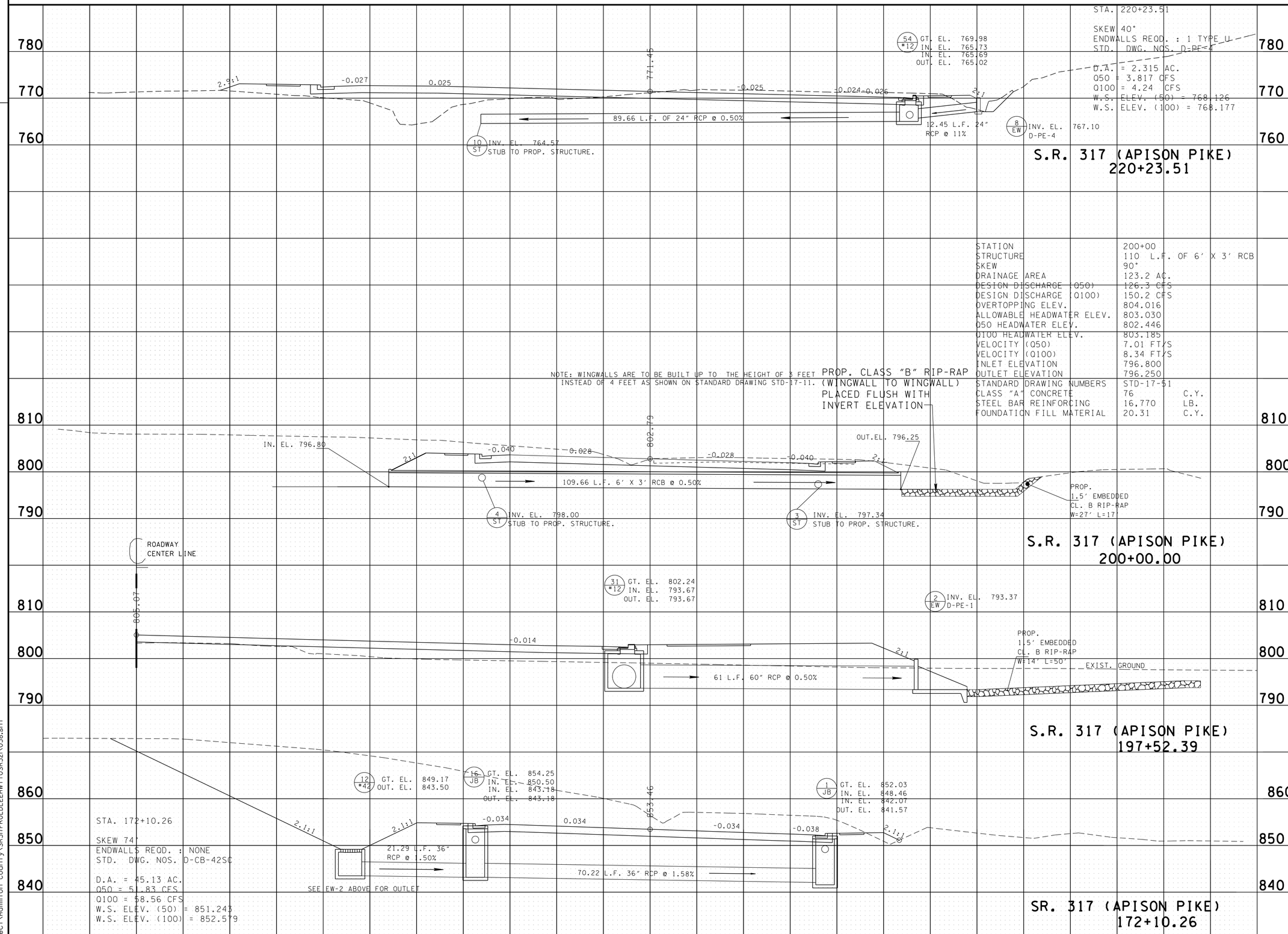


**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

28-JUN-2014 08:15
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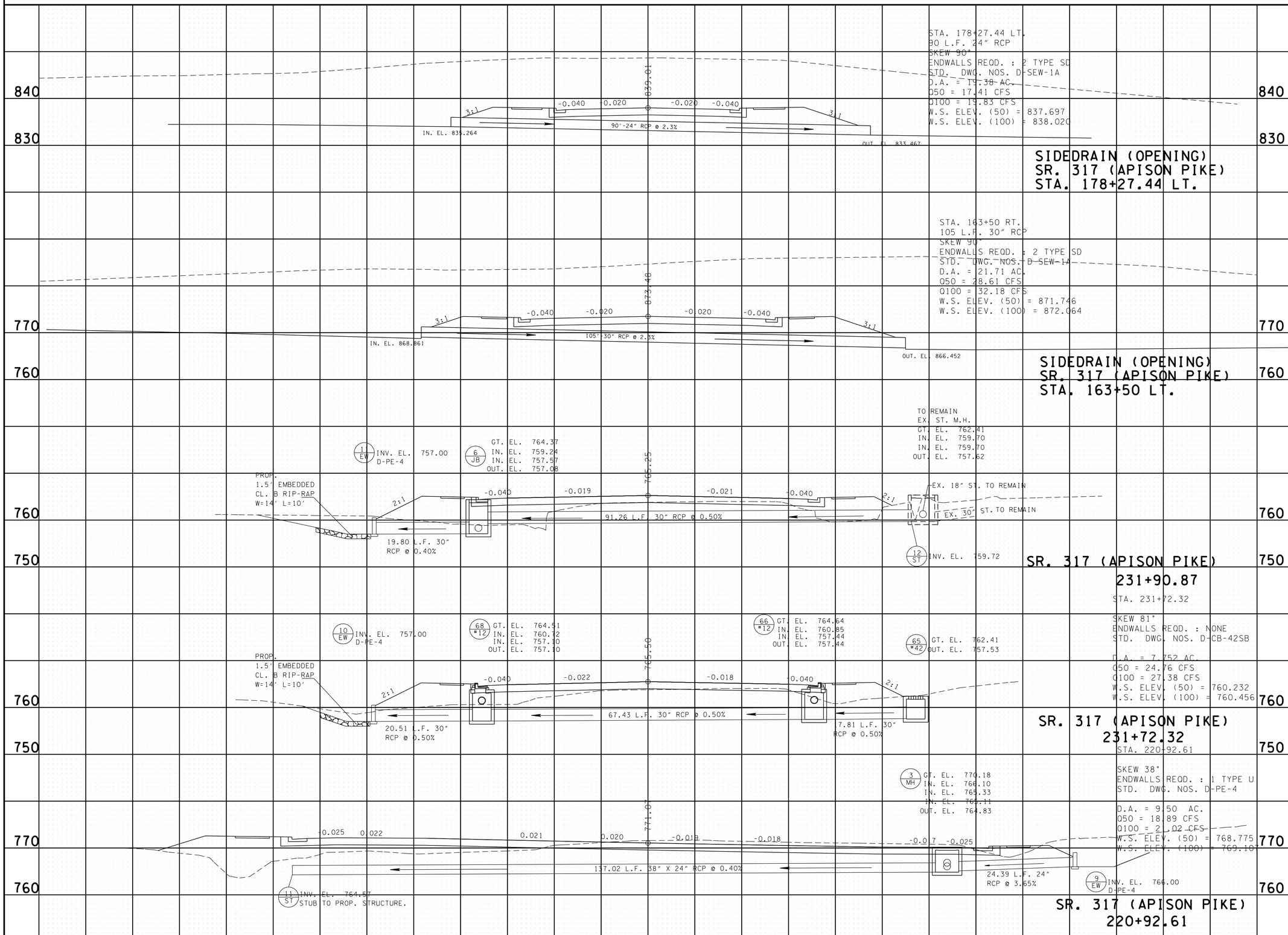
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 39 |
| CONST. | 2014 | STP/NH-317(14) | 39 |
| | | | |
| | | | |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# CULVERT CROSS-SECTIONS

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

8-JUN-2014 08:15
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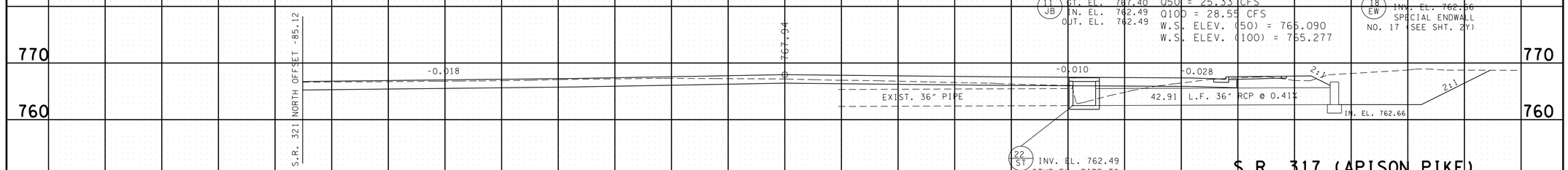
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 40 |

STA. 220+71.45

SKEW 45°
ENDWALLS REQD. : 1 TYPE U
STD. DWG. NOS. SPECIAL DETAIL ENDWALL NO. 17 (SEE 2Y)
D.A. = 25.66 AC.
Q50 = 25.33 CFS
Q100 = 28.55 CFS
W.S. ELEV. (50) = 765.090
W.S. ELEV. (100) = 765.277

11 JB GT. EL. 767.40
IN. EL. 762.49
OUT. EL. 762.49

18 EW INV. EL. 762.66
SPECIAL ENDWALL
NO. 17 (SEE SHT. 2Y)




22 ST INV. EL. 762.49
STUB EX. PIPE TO
PROP. JUNCTION BOX.

S.R. 317 (APISON PIKE)
STA. 250+71.45

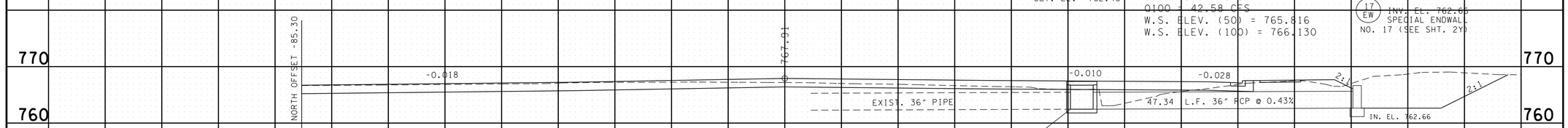
NOTE: ONE STRAIGH ENDWALL FOR DOUBLE 36" PIPE IS TO BE USED FOR INLET ENDWALLS 17 & 18. SEE SPECIAL DETAIL ENDWALL NO. 17 ON SHEET 2Y FOR DETAILS.

STA. 250+65.47

SKEW 45°
ENDWALLS REQD. : 1 TYPE U
STD. DWG. NOS. SPECIAL DETAIL ENDWALL NO. 17 (SEE 2Y)
D.A. = 37.87 AC.
Q50 = 37.67 CFS
Q100 = 42.58 CFS
W.S. ELEV. (50) = 765.816
W.S. ELEV. (100) = 766.130

10 JB GT. EL. 767.38
IN. EL. 762.46
OUT. EL. 762.46

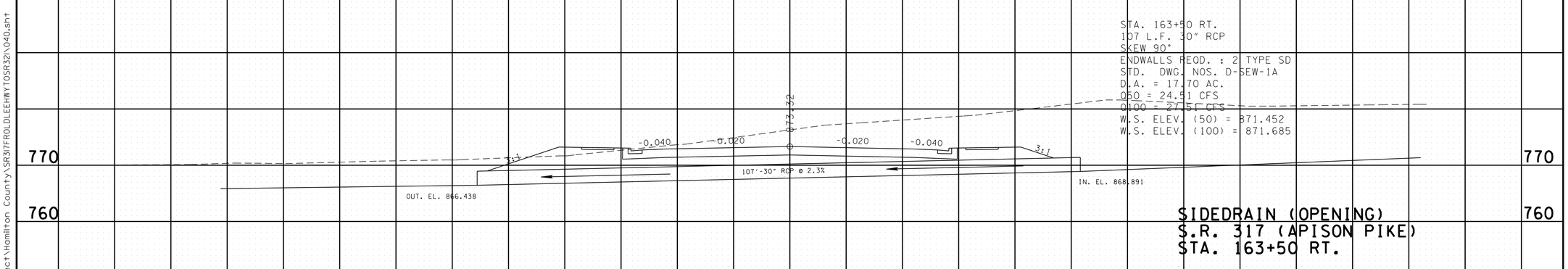
17 EW INV. EL. 762.63
SPECIAL ENDWALL
NO. 17 (SEE SHT. 2Y)




21 ST INV. EL. 762.46
STUB EX. PIPE TO
PROP. JUNCTION BOX.

S.R. 317 (APISON PIKE)
STA. 250+65.47

STA. 163+50 RT.
107 L.F. 30" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS. D-SEW-1A
D.A. = 17.70 AC.
Q50 = 24.51 CFS
Q100 = 27.51 CFS
W.S. ELEV. (50) = 871.452
W.S. ELEV. (100) = 871.685



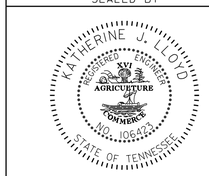

SIDEDRAIN (OPENING)
S.R. 317 (APISON PIKE)
STA. 163+50 RT.

120+00 100+00 80+00 60+00 40+00 20+00 0+00 20+00 40+00 60+00 80+00 100+00 120+00

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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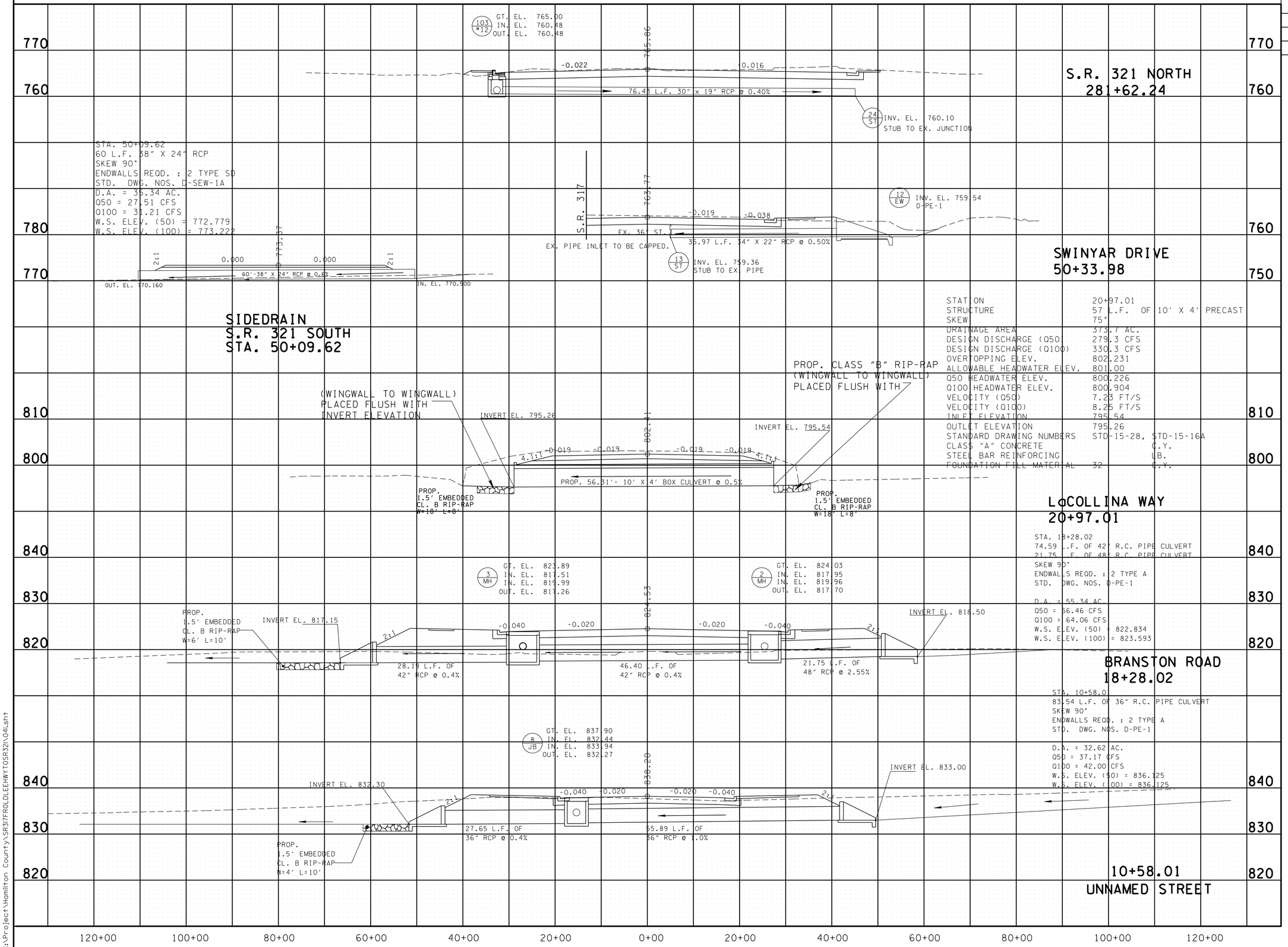
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 41 |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# CULVERT CROSS-SECTIONS

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

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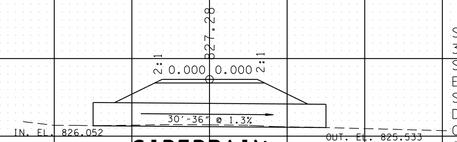
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 42 |

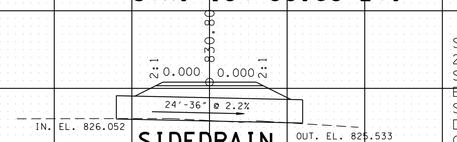
830 / 820




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 184+98.68 LT.

STA. 184+98.68
30 L.F. 36" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS.
D.A. = 47.75 AC.
Q50 = 47.37 CFS
Q100 = 53.81 CFS
W.S. ELEV. (50) = 824.839
W.S. ELEV. (100) = 825.245

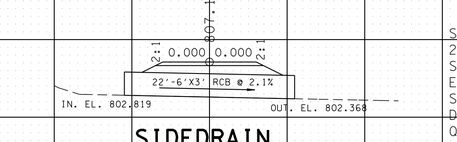
830 / 820




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 183+18.02 LT.

STA. 183+18.02
24 L.F. 36" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS.
D.A. = 39.06 AC.
Q50 = 39.16 CFS
Q100 = 44.46 CFS
W.S. ELEV. (50) = 829.095
W.S. ELEV. (100) = 829.383

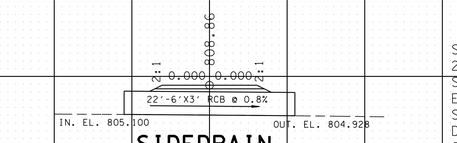
810 / 800




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 197+14.74 LT.

STA. 197+14.74
22 L.F. OF 6' X 3' RCB
SKEW 90°
ENDWALLS REQD. : NONE
STD. DWG. NOS. STD-15-35
D.A. = 94.64 AC.
Q50 = 89.47 CFS
Q100 = 101.9 CFS
W.S. ELEV. (50) = 805.751
W.S. ELEV. (100) = 806.024

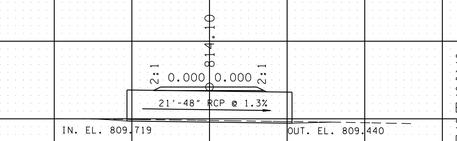
810 / 800




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 196+01.71 LT.

STA. 196+01.71
22 L.F. OF 6' X 3' RCB
SKEW 90°
ENDWALLS REQD. : NONE
STD. DWG. NOS. STD-15-35
D.A. = 81.60 AC.
Q50 = 73.41 CFS
Q100 = 83.60 CFS
W.S. ELEV. (50) = 807.820
W.S. ELEV. (100) = 808.087

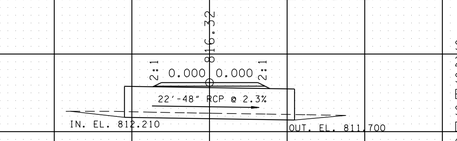
820 / 810




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 192+72.13 LT.

STA. 192+72.13
21 L.F. OF 42" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS. D-SEW-1A
D.A. = 68.96 AC.
Q50 = 63.47 CFS
Q100 = 72.29 CFS
W.S. ELEV. (50) = 813.258
W.S. ELEV. (100) = 813.562

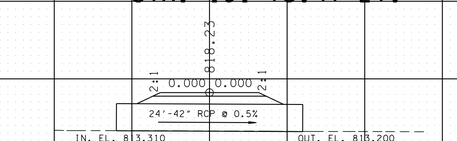
820 / 810




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 191+73.47 LT.

STA. 191+73.47
22 L.F. OF 42" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS. D-SEW-1A
D.A. = 63.63 AC.
Q50 = 59.48 CFS
Q100 = 67.77 CFS
W.S. ELEV. (50) = 815.613
W.S. ELEV. (100) = 815.896

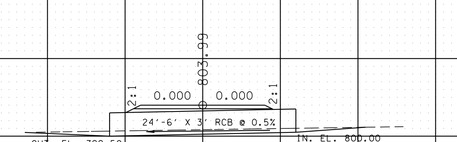
810 / 800




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 190+61.23 LT.

STA. 190+61.23
24 L.F. OF 42" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS. D-SEW-1A
D.A. = 60.37 AC.
Q50 = 56.48 CFS
Q100 = 64.35 CFS
W.S. ELEV. (50) = 816.912
W.S. ELEV. (100) = 817.249

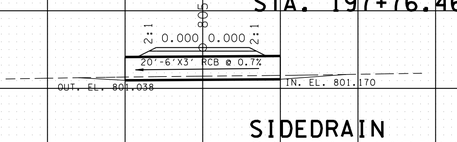
810 / 800




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 197+76.46 RT.

STA. 197+76.46
24 L.F. OF 6' X 3' RCB
SKEW 90°
ENDWALLS REQD. : NONE
STD. DWG. NOS. STD-15-35
D.A. = 12.27 AC.
Q50 = 34.74 CFS
Q100 = 38.66 CFS
W.S. ELEV. (50) = 802.121
W.S. ELEV. (100) = 802.217

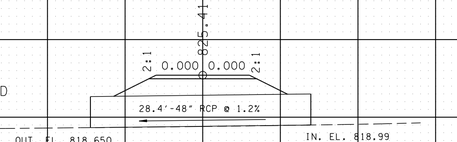
800 / 790




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 197+03.96 RT.

STA. 197+03.96
20 L.F. OF 6' X 3' RCB
SKEW 90°
ENDWALLS REQD. : NONE
STD. DWG. NOS. STD-15-35
D.A. = 11.60 AC.
Q50 = 34.27 CFS
Q100 = 38.08 CFS
W.S. ELEV. (50) = 803.219
W.S. ELEV. (100) = 803.312

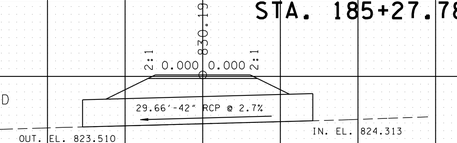
830 / 820




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 185+27.78 RT.

STA. 185+27.78
28 L.F. OF 48" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS. D-SEW-1A
D.A. = 65.19 AC.
Q50 = 66.65 CFS
Q100 = 75.65 CFS
W.S. ELEV. (50) = 822.638
W.S. ELEV. (100) = 822.952

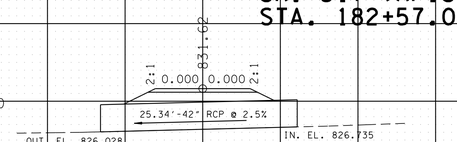
830 / 820




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 182+57.05 RT.

STA. 182+57.05
30 L.F. OF 42" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS.
D.A. = 46.62 AC.
Q50 = 47.12 CFS
Q100 = 53.50 CFS
W.S. ELEV. (50) = 827.479
W.S. ELEV. (100) = 827.751

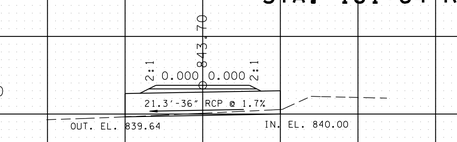
830 / 820




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 181+64 RT.

STA. 181+64
25 L.F. OF 42" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS. D-SEW-1A
D.A. = 40.31 AC.
Q50 = 45.57 CFS
Q100 = 51.53 CFS
W.S. ELEV. (50) = 829.837
W.S. ELEV. (100) = 830.088

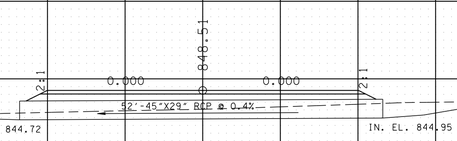
840 / 830




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 176+17.26 RT.

STA. 176+17.26
21 L.F. OF 36" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS. D-SEW-1A
D.A. = 31.70 AC.
Q50 = 36.61 CFS
Q100 = 41.35 CFS
W.S. ELEV. (50) = 842.959
W.S. ELEV. (100) = 843.229

840 / 830




SIDEDRAIN
SR. 317 (APISON PIKE)
STA. 173+98 RT.

STA. 173+98
52 L.F. OF 45" X 29" RCP
SKEW 90°
ENDWALLS REQD. : 2 TYPE SD
STD. DWG. NOS.
D.A. = 30.48 AC.
Q50 = 35.70 CFS
Q100 = 40.30 CFS
W.S. ELEV. (50) = 848.135
W.S. ELEV. (100) = 848.379

UNOFFICIAL SET
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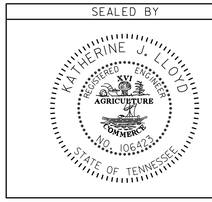


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

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

## EROSION PREVENTION AND SEDIMENT CONTROL (E.P.S.C.) NOTES

(1) 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.

(2) 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.

(3) 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.

(4) 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.

(5) 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.

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

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

### EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

| SYMBOL | ITEM | STD. DWG. |
|---|---|---|
| *SFB* *SFB* *SFB* | SEDIMENT FILTER BAG | EC-STR-2 |
| * SF * SF * SF * | SILT FENCE | EC-STR-3B |
| * SFB * SFB * SFB * | SILT FENCE WITH WIRE BACKING | EC-STR-3C |
| | ROCK CHECK DAM (V-DITCH) | EC-STR-6 |
| | ENHANCED ROCK CHECK DAM (V-DITCH) | EC-STR-6A |
| | ROCK CHECK DAM (TRAPEZOIDAL DITCH) | EC-STR-6 |
| | ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH) | EC-STR-6A |
| ** SOCK ** SOCK ** | FILTER SOCK | EC-STR-8 |
| | CULVERT PROTECTION (TYPE 1) | EC-STR-11 |
| | CULVERT PROTECTION (TYPE 2) | EC-STR-11A |

### EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

| SYMBOL | ITEM | STD. DWG. |
|---|---|---|
| | ROCK SEDIMENT DAM | EC-STR-12 |
| D | CATCH BASIN PROTECTION (TYPE D) | EC-STR-19 |
| TCE | TEMPORARY CONSTRUCTION EXIT | EC-STR-25 |
| | TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM | EC-STR-27 |
| | TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING) | EC-STR-31 |
| | SAND BAG BERM | EC-STR-33 |
| | EROSION CONTROL BLANKET | EC-STR-34 |
| ** TUBE ** TUBE ** | SEDIMENT TUBE | EC-STR-37 |
| 2 | CATCH BASIN FILTER ASSEMBLY (TYPE 2) | EC-STR-42 |
| * HVF * HVF | HIGH VISIBILITY FENCE | S-F-1 |

## EROSION PREVENTION AND SEDIMENT CONTROL (E.P.S.C.) NOTES FOR UTILITY RELOCATION

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

(2) 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

(3) 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).

(4) 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.

(5) 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.

(6) 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.

(7) 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.

(8) 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.

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

(10) 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.

| OUTFALL NO. | DRAINAGE AREA (AC.) | | | | |
|---|---|---|---|---|---|
| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 |
| 1 | 5.319 | 5.319 | | | |
| 2 | 2.106 | 2.106 | | | |
| 3 | NOT USE | | | | |
| 4 | | 21 | | | |
| 4A | | 26.60 | | | |
| 4B | 21 | 21 | | | |
| 4C | 19 | 19 | | | |
| 4D | 17.50 | 17.5 | | | |
| 4E | 24.70 | 24.70 | | | |
| 5 | 6.80 | | | | |
| 5A | 14.20 | | | | |
| 5B | 26.60 | | | | |
| 5C | 28.60 | | | | |
| 5D | 15.64 | | | | |
| 5E | 15.93 | | | | |
| 5F | 18.64 | | | | |
| 5G | 23.23 | | | | |
| 5H | 28.73 | | | | |
| 5I | 6.35 | 6.35 | 6.35 | | |
| 6 | 3.60 | | | | |
| 7 | 0.273 | 0.273 | 0.273 | | |
| 8 | 2.60 | | | | |
| 8A | 3.50 | | | | |
| 8B | 17.90 | | | | |
| 9 | 0.335 | | | | |
| 10 | 0.140 | | | | |
| 11 | 11.00 | 11.00 | | | |
| 12 | 0.212 | | | | |
| 13 | 0.103 | | | | |
| 14 | 15 | 15 | | | |
| 15 | 2.711 | | | | |
| 16 | 0.362 | | | | |
| 17 | 1.425 | | | | |
| 18 | 0.661 | | | | |
| 19 | 67 | 67 | | | |
| 20 | 0.265 | | | | |
| 21 | 0.256 | | | | |
| 22 | 5 | | | | |
| 23 | | 0.116 | | | |
| 24 | | 0.103 | 0.103 | | |
| 25 | NOT USE | | | | |
| 26 | | 2.381 | | | |
| 27 | | 3.193 | | | |
| 28 | | 0.535 | | | |
| 29 | | 0.624 | | | |
| 30 | | | 0.042 | | |
| 31 | | | 0.183 | | |
| 32 | | | 2.416 | | |
| 33 | | | 4.095 | | |
| 34 | | | 7.265 | | |
| 35 | | | 2.485 | | |
| 36 | | | 6.605 | | |
| 37 | | | | 2.091 | |
| 38 | | | | | 0.937 |

## SPECIAL NOTES

UNLESS OTHERWISE NOTED IN THE PLAN, THE CONTRACTOR SHALL NOT DISTURB ANY AREA BEYOND 20 FEET FROM THE CUT AND FILL LINES; AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN; STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MUTI-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 EXCLUDED 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.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 40 |
| CONST. | 2014 | STP/NH-317(14) | 43 |
| | | | |
| | | | |

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES
S.R. 317 (APISON PIKE)

8-JUN-2014 08:15
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 41 |
| CONST. | 2014 | STP/NH-317(14) | 44 |
| | | | |
| | | | |

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

## CHANNEL RELOCATION SQUENCING NOTES

STANDARD STREAM MITIGATION:

1) THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIP-RAP (ONLY AS SHOWN ON PLANS), SEEDING AND SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION. WATER SHALL BE DIVERTED INTO THE NEW CHANNEL ONLY AFTER IT IS COMPLETELY STABILIZED, AND ONLY DURING A LOW-WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET IS IN PLACE, SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.

2) CHANNEL RELOCATION SEQUENCE
   - A) FLAG EDGE OF THE NEW CHANNEL TOP OF BANK PRIOR TO CLEARING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOE OF THE NEW HIGHWAY SLOPE AND THE STREAM.
   - B) EXCAVATE THE NEW CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
   - C) SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.
   - D) PLACE TOPSOIL, EROSION CONTROL BLANKET, SEED AND SOD AS SPECIFIED.
   - E) REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWN STREAM. BANK AND BOTTOM ELEVATION OF THE OLD CHANNEL SHOULD TRANSITION SMOOTHLY INTO THE NEW CHANNEL. THE ELEVATIONS OF THE NEW CHANNEL BOTTOM AT EACH END OF THE RELOCATION SEQUENCE SHOULD MATCH THE ELEVATIONS OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATED CHANNEL CENTERLINE OR AS SPECIFIED.
   - F) INSTALL TREES ACCORDING TO STANDARD SPECIFICATIONS SECTION 802.

3) ONLY RIP-RAP SHOWN ON THE PLANS SHOULD BE USED IN THE RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIP-RAP SHOULD BE COORDINATED WITH THE ENVIRONMENTAL DIVISION THROUGH THE TDOT HEADQUARTERS CONSTRUCTION OFFICE.

4) REQUESTS BY ANY AGENCY THAT WOULD REQUIRE THE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, RIP-RAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATIONS SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA THE HEADQUARTERS CONSTRUCTION OFFICE FOR THE COORDINATION WITH ALL AGENCIES AND TDOT DIVISIONS.

TREES:

1. NO SUBSTITIONS OF TREES SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. TREES SHALL BE THE VARIETY REQUESTED AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.
3. ALL TREES PLANTED SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.
4. TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

## POLYACRYLAMIDE NOTES

(1) ENSURE POLYACRYLAMIDE (PAM) EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE AND MEET THE FOLLOWING REQUIREMENTS:

(2) MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

(3) HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE.

(4) MIXTURE IS NON-COMBUSTIBLE.

(5) CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

(6) PAM SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

(7) ALL VENDERS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES THAT THE PAM, PAM MIX, PAM BLEND EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF PAM ARE NOT ALLOWED FOR UNDER THIS GUIDELINE DUE TO THEIR HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. PAM EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUR TO SURFACTANT TOXICITY. CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR USE ON THIS PROJECT.

(8) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS ~~S~~DEMONSTRATING THAT A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

(9) EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF A TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.

(10) PAM POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. MIXING PAM POWDER WITH DRY ~~DILICA~~ SILICA SAND WILL AID IN SPREADING.

(11) PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

(12) PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

## BUFFER ZONE REQUIREMENTS NOTES

1) BUFFER ZONE REQUIREMENTS APPLY TO ALL STREAMS ADJACENT TO CONSTRUCTION SITES, WITH AN EXCEPTION FOR STREAMS DESIGNATED AS IMPAIRED OR EXCEPTIONAL TENNESSEE WATERS. A 30-FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO ALL STREAMS AT THE CONSTRUCTION SITE SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE WATER QUALITY BUFFER ZONE IS REQUIRED PROTECT WATERS OF THE STATE (E.G., PERENNIAL AND INTERMITTENT STREAMS, RIVERS, LAKES, WETLANDS) LOCATED WITHIN OR IMMEDIATELY ADJACENT TO THE BOUNDARIES OF THE PROJECT, AS IDENTIFIED USING METHODOLOGY FROM STANDARD OPERATING PROCEDURES FOR HYDROLOGIC DETERMINATIONS. BUFFER ZONES ARE NOT PRIMARY SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIEF ON AS SUCH. REHABILITATION AND ENHANCEMENT OF A NATURAL BUFFER ZONE IS ALLOWED, IF NECESSARY, FOR IMPROVEMENT OF ITS EFFECTIVENESS OF PROTECTION OF THE WATER OF THE STATE.

2) THE RIPARIAN BUFFER ZONE SHOULD BE PRESERVED BETWEEN THE TOP OF STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 30-FEET 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.

3) EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONE. BMPS PROVIDING EQUIVALENT PROTECTION TO A RECEIVING STREAM AS A NATURAL RIPARIAN ZONE MAY BE USED AT A CONSTRUCTION SITE. SUCH EQUIVALENT BMPS SHALL BE DESIGNED TO BE EFFECTIVE IN PROTECTING THE RECEIVING STREAM FROM EFFECTS OF STORMWATER RUNOFF AS NATURAL RIPARIAN ZONE. A JUSTIFICATION FOR USE AND A DESIGN OF EQUIVALENT BMPS SHALL BE INCLUDED IN THE SWPPP. SUCH EQUIVALENT BMPS ARE EXPECTED TO BE ROUTINELY USED AT CONSTRUCTION PROJECT TYPICALLY LOCATED ADJACENT TO SURFACE WATERS. THESE PROJECTS INCLUDE, BUT ARE NOT LIMITED TO: SEWER LINE CONSTRUCTION, ROADWAY CONSTRUCTION, UTILITY LINE OR EQUIPMENT INSTALLATION, GREENWAY CONSTRUCTION, CONSTRUCTION OF A PERMANENT OUTFALL OR A VELOCITY DISSIPATING STRUCTURE, ETC.

## EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | TOTAL |
|---|---|---|---|---|
| (1) | 203-01 | ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) | C.Y. | 7943 |
| (1) | 209-02.03 | 8" TEMPORARY SLOPE DRAIN | L.F. | 158 |
| (1) | 209-02.04 | 10" TEMPORARY SLOPE DRAIN | L.F. | 183 |
| (1) | 209-02.05 | 12" TEMPORARY SLOPE DRAIN | L.F. | 276 |
| (1) | 209-03.20 | FILTER SOCK (8") | L.F. | 1278 |
| (1) | 209-05 | SEDIMENT REMOVAL | C.Y. | 1096 |
| (1) | 209-08.02 | TEMPORARY SILT FENCE (WITH BACKING) | L.F. | 7513 |
| (1) | 209-08.03 | TEMPORARY SILT FENCE (WITHOUT BACKING) | L.F. | 36369 |
| (1) | 209-08.07 | ROCK CHECK DAM | EACH | 179 |
| (1) | 209-08.08 | ENHANCED ROCK CHECK DAM | EACH | 32 |
| (1) | 209-09.01 | SANDBAGS | BAGS | 1240 |
| (2)(1) | 209-09.04 | SEDIMENT FILTER BAG (15' X 10') | EACH | 12 |
| (1) | 209-09.41 | CURB INLET PROTECTION (TYPE 2) | EACH | 17 |
| (1) | 209-40.33 | CATCH BASIN PROTECTION (TYPE D) | EACH | 135 |
| (1) | 209-40.42 | CATCH BASIN FILTER ASSEMBLY(TYPE 2) | EACH | 2 |
| (1) | 209-40.43 | CATCH BASIN FILTER ASSEMBLY(TYPE 3) | EACH | 3 |
| (1) | 209-65.03 | TEMPORARY DIVERSION CHANNEL | L.F. | 531 |
| (1) | 209-65-04 | TEMPORARY IN STREAM DIVERSION | L.F. | 1488 |
| (1) | 303-10.01 | MINERAL AGGREGATE (SIZE 57) | TON | 1303 |
| (1) | 621-03.03 | 24" TEMPORARY DRAINAGE PIPE | L.F. | 26 |
| (1) | 621-03.07 | 48" TEMPORARY DRAINAGE PIPE | L.F. | 90 |
| (1) | 707-08.11 | HIGH-VISIBILITY CONSTRUCTION FENCE | L.F. | 1295 |
| (3)(1) | 709-05.05 | MACHINED RIPRAP (CLASS A-3) | TON | 662 |
| (4)(1) | 709-05.06 | MACHINED RIPRAP (CLASS A-1) | TON | 7337 |
| (5)(1) | 709-05.08 | MACHINED RIP-RAP (CLASS B) | TON | 871 |
| (6)(1) | 709-05.09 | MACHINED RIP-RAP (CLASS C) | TON | 68 |
| (1) | 740-10.03 | GEOTEXTILE (TYPE III) (EROSION CONTROL) | S.Y. | 20164 |
| (1) | 740-10.04 | GEOTEXTILE (TYPE IV) (STABILIZATION) | S.Y. | 580 |
| (1) | 740-11.01 | TEMPORARY SEDIMENT TUBE (8 INCH) | L.F. | 1100 |
| (1) | 740-11.03 | TEMPORARY SEDIMENT TUBE (18 INCH) | L.F. | 3729 |
| (1) | 801-01 | SEEDING (WITH MULCH) | UNIT | 223 |
| (1) | 801-01.07 | TEMPORARY SEEDING (WITH MULCH) | UNIT | 172 |
| (1) | 801-02 | SEEDING (WITHOUT MULCH) | UNIT | 343 |
| (1) | 801-03 | WATER (SEEDING AND SODDING) | M.G. | 21 |
| (7)(1) | 803-01 | SODDING (NEW SOD) | S.Y. | 50250 |
| (8)(1) | 805-01.01 | TURF REINFORCEMENT MAT (CLASS I) | S.Y. | 12531 |
| (1) | 805-12.02 | EROSION CONTROL BLANKET (TYPE II) | S.Y. | 23886 |

NOTES FOR ALL EPSC PHASES:

1. ALL SILT FENCES, SILT FENCE W/ BACKING, SEDIMENT TUBE AND FILTER SOCKS SHALL BE J-HOOK ACROSS COUNTOURS AS DIRECTED BY THE ENGINEER.
2. TEMPORARY CONSTRUCTION EXITS TO BE PLACED AS DIRECTED BY THE ENGINEER.

NOTE:

(1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(2) QUANTITIES SHOWN REFLECT 3 REPLACEMENTS.
(3) TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.
(4) INCLUDES 42 TONS FOR OUTLET PROTECTION AND 280 TONS FOR CULVERT PROTECTION.
(5) 230 TONS FOR SLOPE PROTECTION AT WINGWALLS AND 23 TONS FOR OUTLET PROTECTION AT ENDWALLS.
(6) FOR OUTLET PROTECTIONS AT ENDWALL EW-2.
(7) INCLUDES 4862 S.Y. FOR ROADWAY DITCH LINING.
(8) TO BE USED FOR ROADWAY DITCH LINING.

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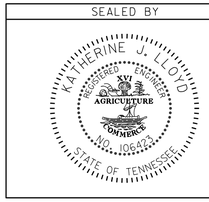


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES AND QUANTITIES

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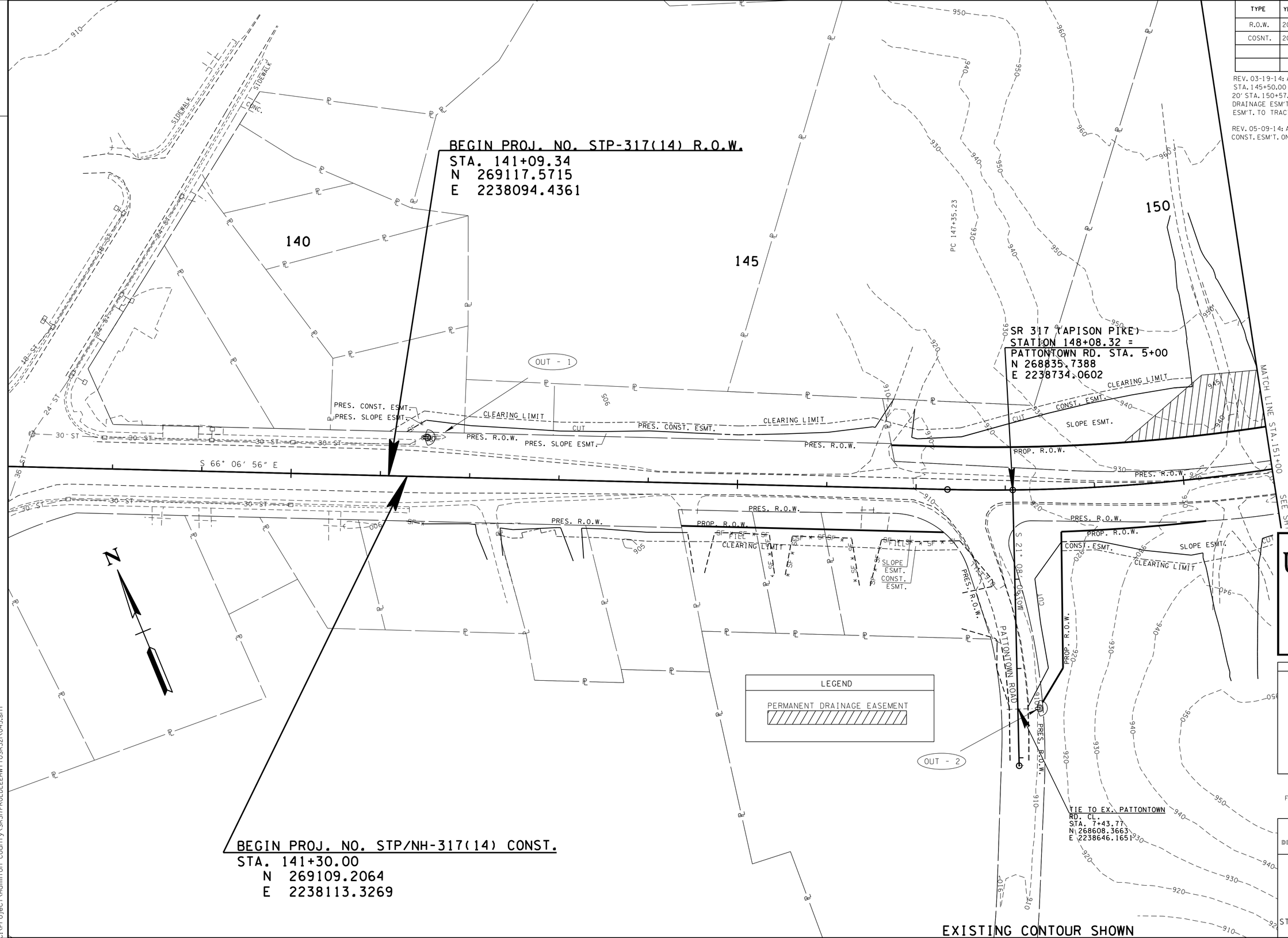
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42 |
| CONST. | 2014 | STP/NH-317(14) | 45 |
| | | | |
| | | | |

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50.00 RT., WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT., ADJUSTED PERMANENT DRAINAGE ESM'T., AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNERS' REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

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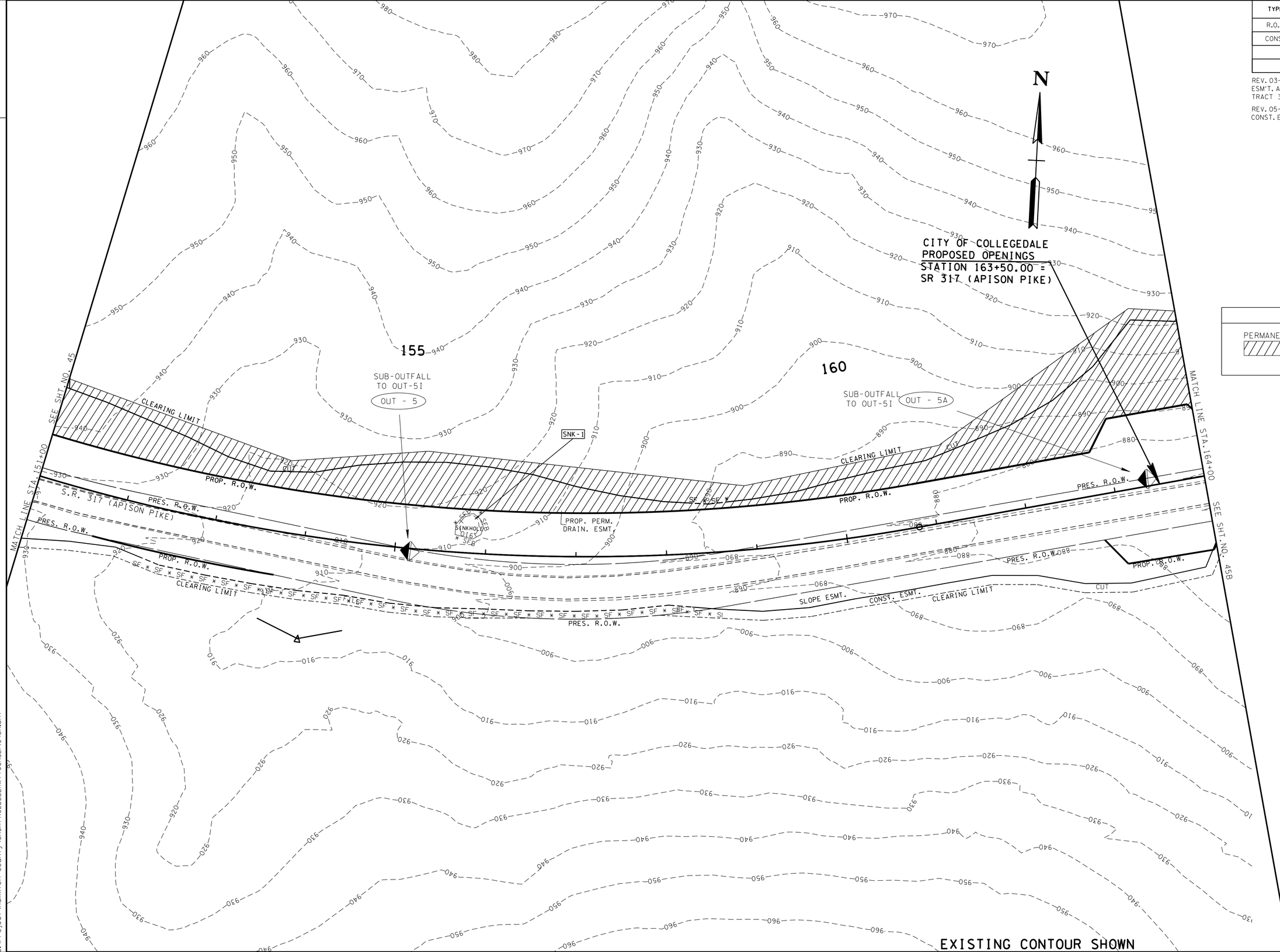
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42A |
| CONST. | 2014 | STP/NH-317(14) | 45A |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




LEGEND

PERMANENT DRAINAGE EASEMENT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

EXISTING CONTOUR SHOWN

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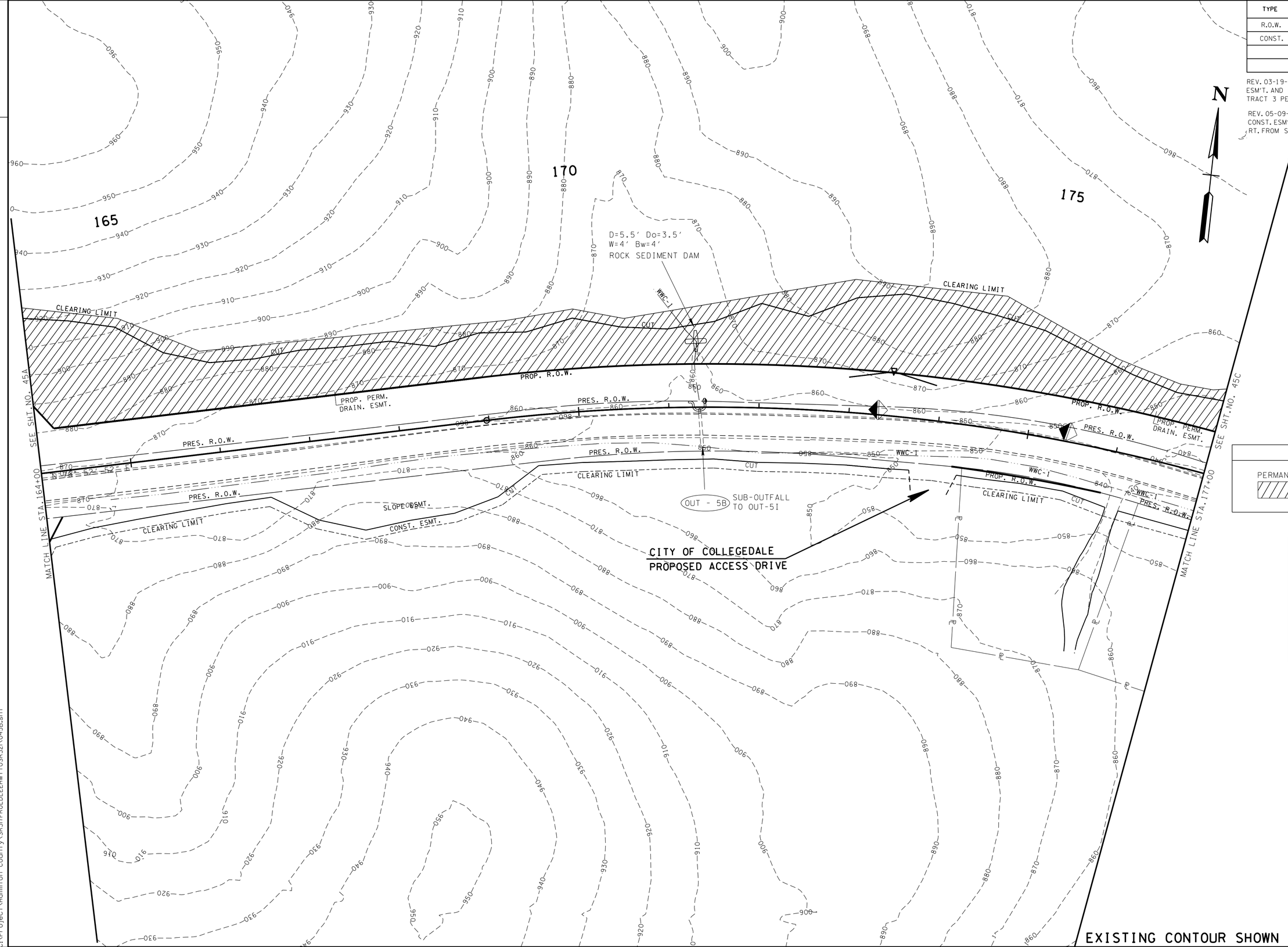
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42B |
| CONST. | 2014 | STP/NH-317(14) | 45B |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3. SHIFTED ACCESS DR. ;RT. FROM STA. 174+00 TO 173+98 ON TRACT 4.




LEGEND

PERMANENT DRAINAGE EASEMENT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

EXISTING CONTOUR SHOWN

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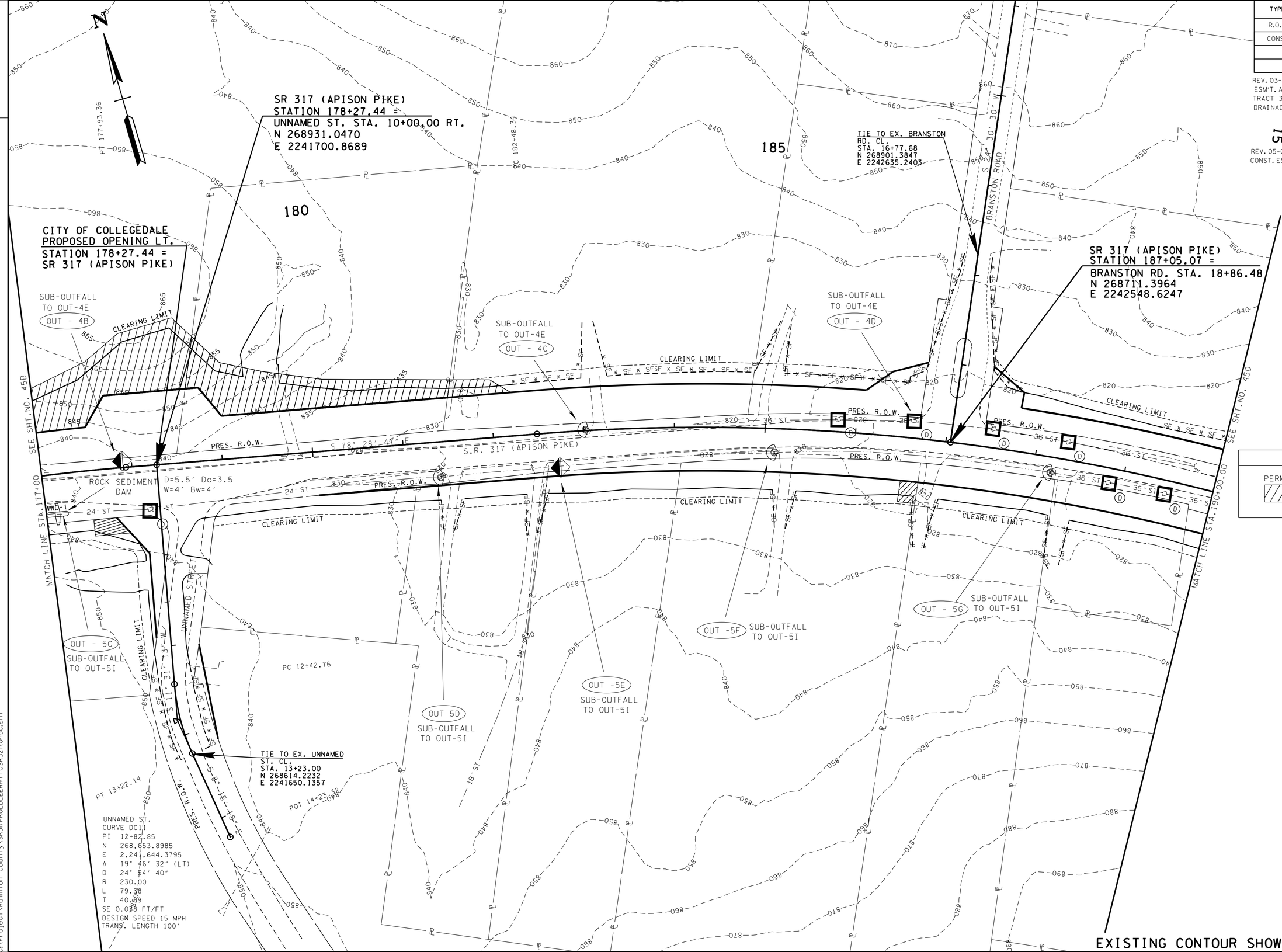
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42C |
| CONST. | 2014 | STP/NH-317(14) | 45C |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 13 FOR CATCHBASIN.

15

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




LEGEND

PERMANENT DRAINAGE EASEMENT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

EXISTING CONTOUR SHOWN

28-JUN-2014 08:18
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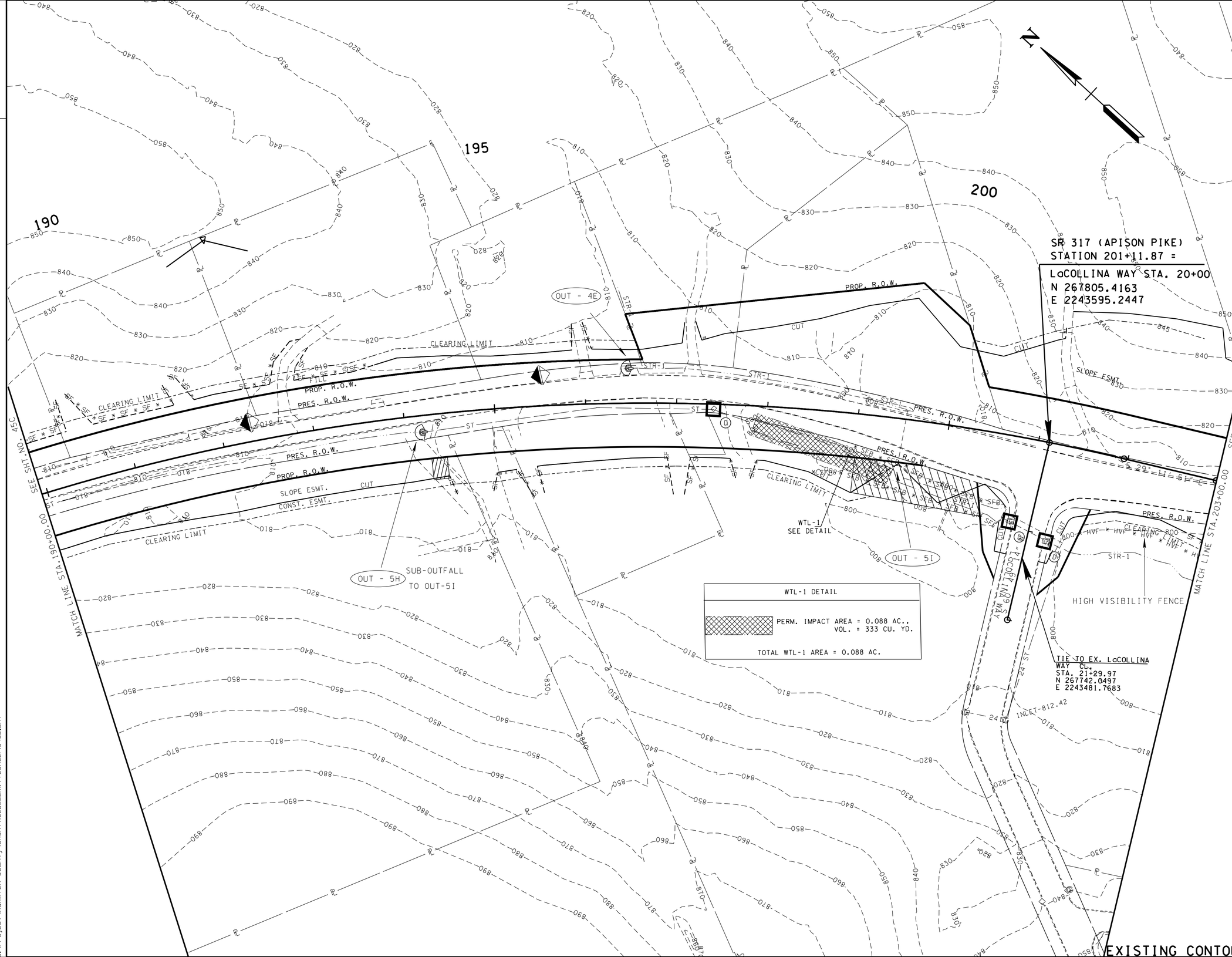
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42D |
| CONST. | 2014 | STP/NH-317(14) | 45D |
| | | | |
| | | | |

REV. 03-19-14: ADDED PERMANEN DRAINAGE ESM'T. TO TRACT 18 FOR CATCHBASIN.




# UNOFFICIAL SET

## NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

EXISTING CONTOUR SHOWN

18-JUN-2014 08:18
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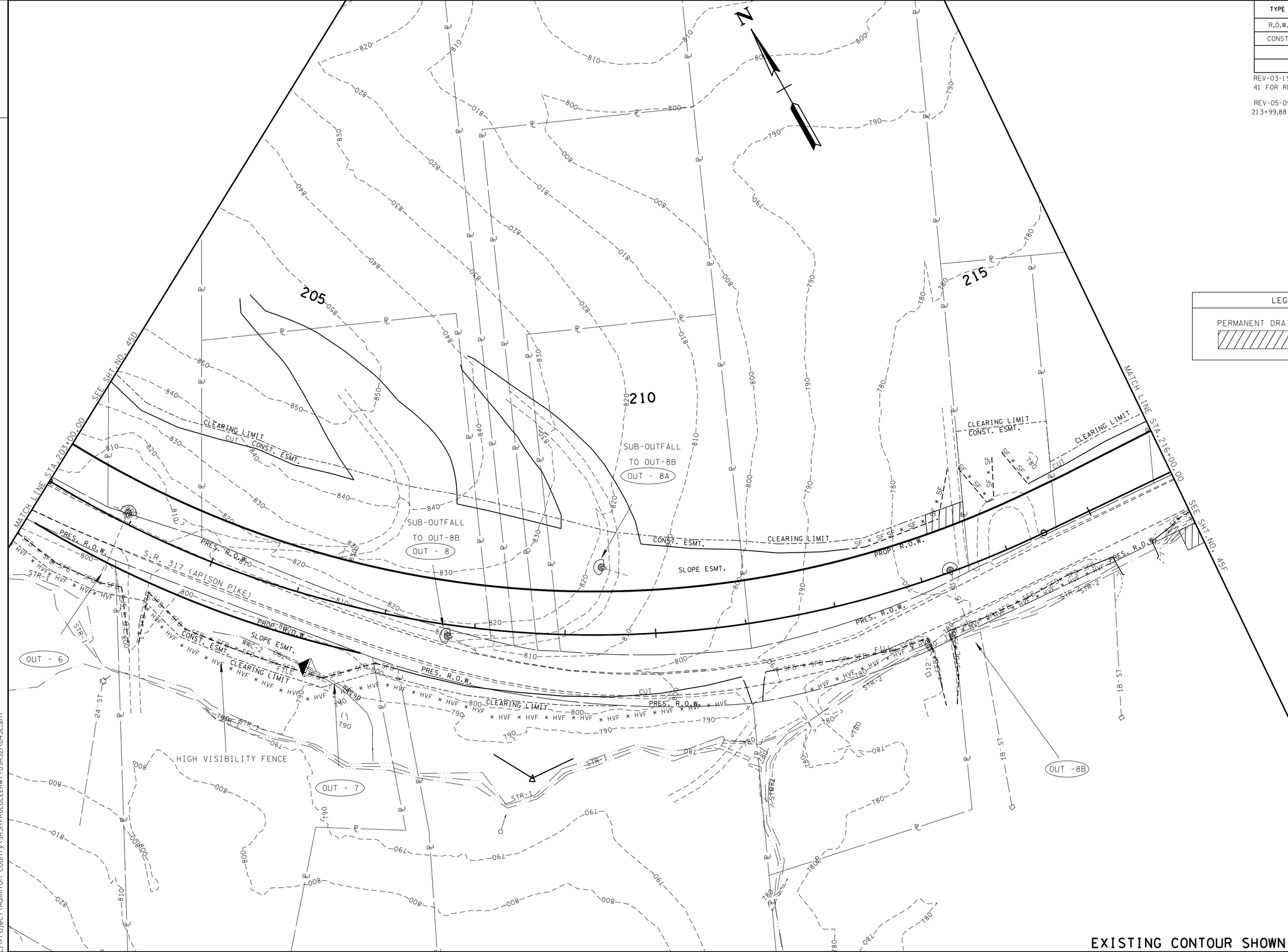
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42E |
| CONST. | 2014 | STP/NH-317(14) | 45E |
| | | | |
| | | | |

REV-03-19-14: ADJUSTED CONST. ESM'T. TO TRACT 41 FOR REMOVAL OF HOUSE.

REV-05-09-14: SHIFTED PVT. DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 ON TRACT 41.




LEGEND

PERMANENT DRAINAGE EASEMENT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

EXISTING CONTOUR SHOWN

8-JUN-2014 08:18
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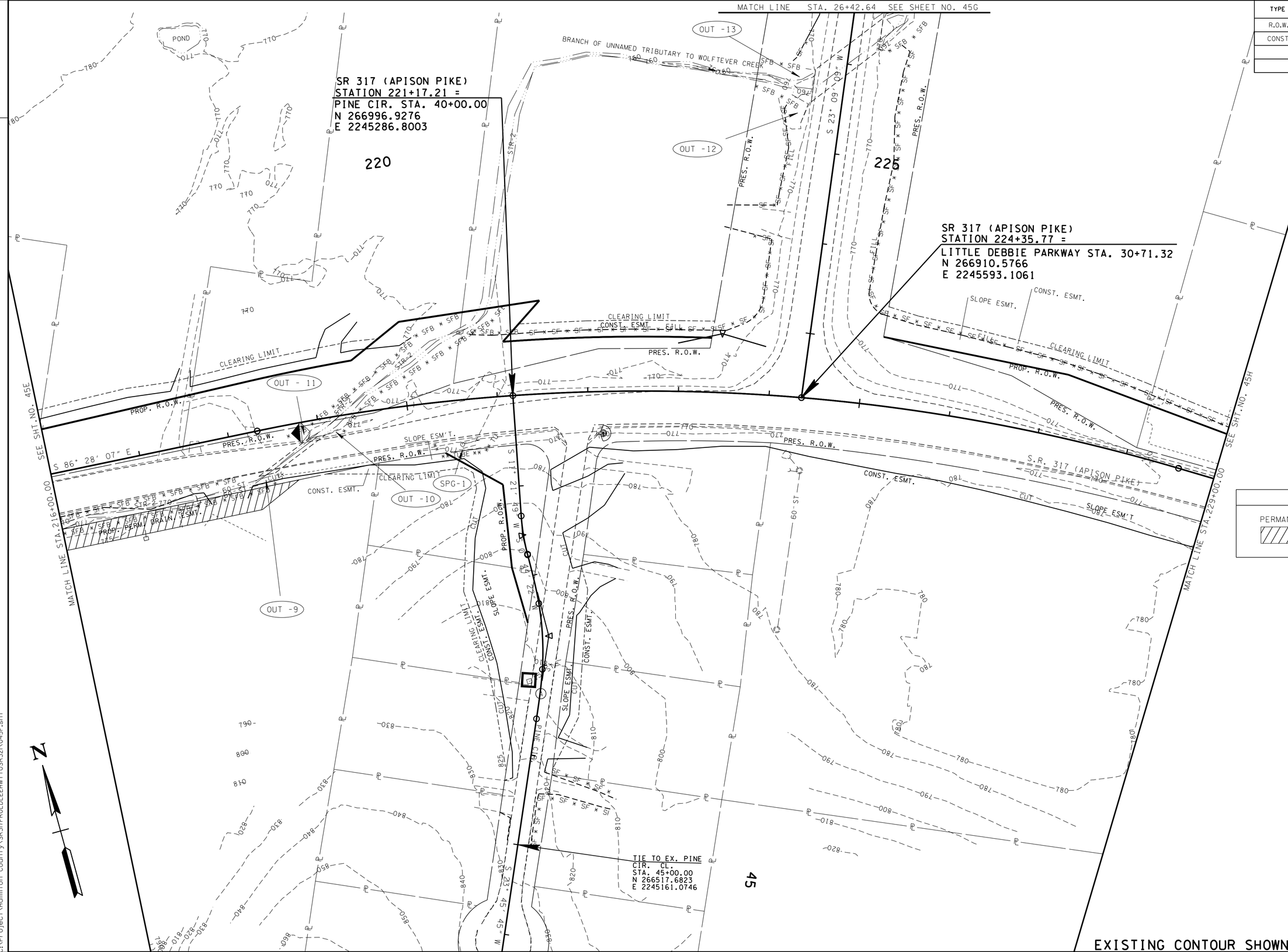
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42F |
| CONST. | 2014 | STP/NH-317(14) | 45F |
| | | | |
| | | | |




LEGEND

PERMANENT DRAINAGE EASEMENT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/B31(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

EXISTING CONTOUR SHOWN

8-JUN-2014 08:18
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42G |
| CONST. | 2014 | STP/NH-317(14) | 45G |
| | | | |
| | | | |

EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106433
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 26+42 TO STA. 24+37

SCALE: 1"= 50'

8-JUN-2014 08:18
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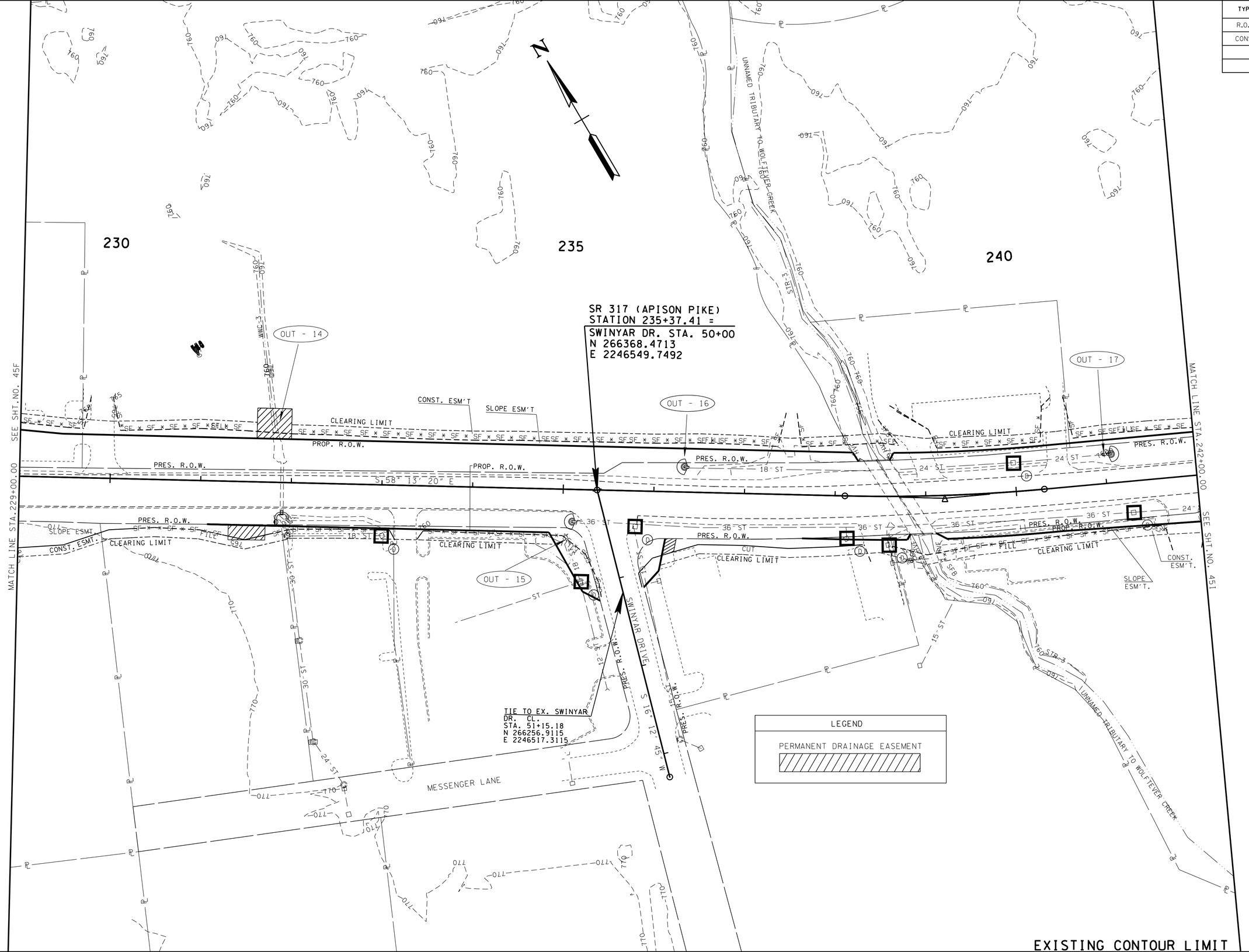
| TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO. |
|---|---|---|

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42H |
| CONST. | 2014 | STP/NH-317(14) | 45H |
| | | | |
| | | | |




# UNOFFICIAL SET

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

## EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

8-JUN-2014 08:18
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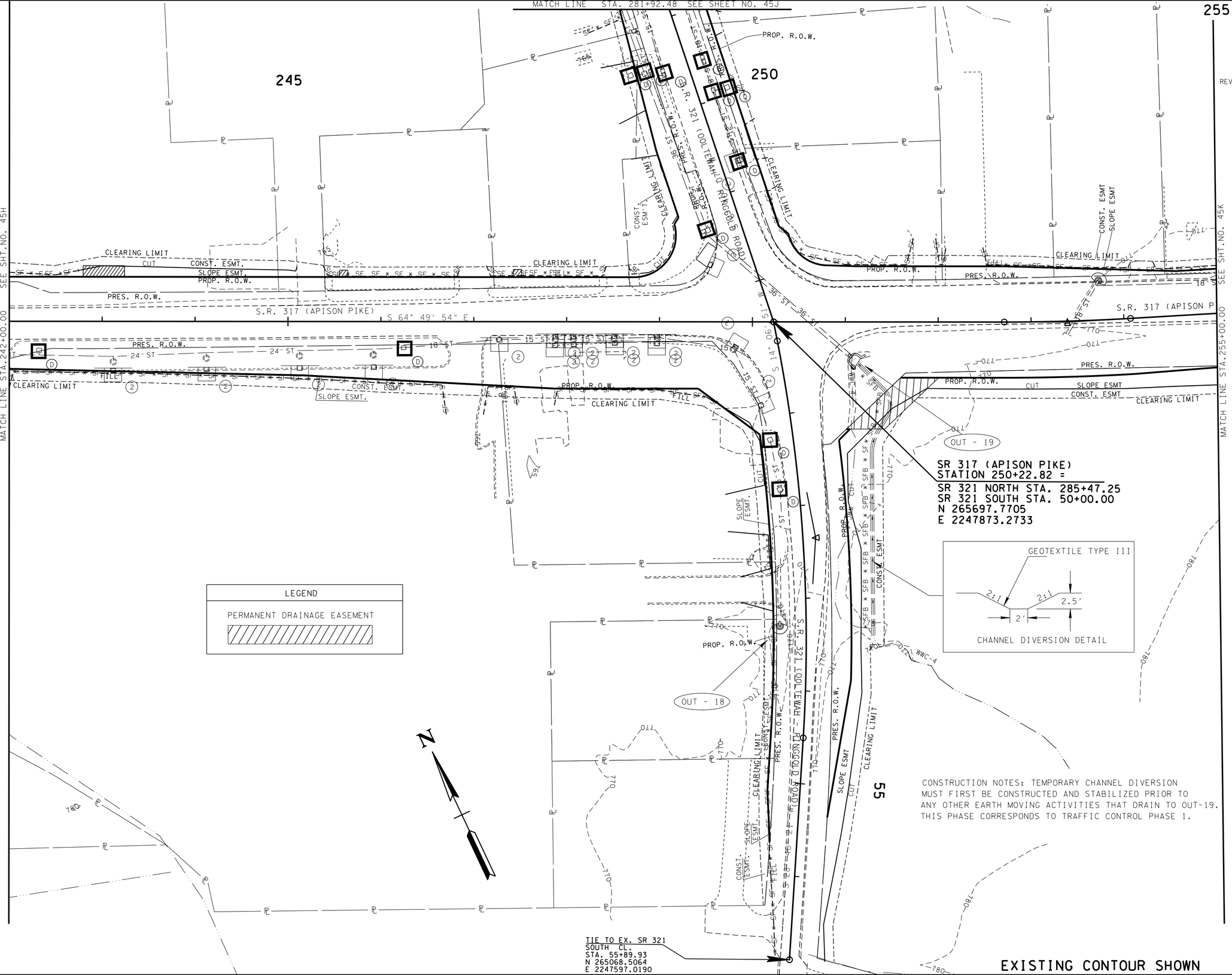
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42I |
| CONST. | 2014 | STP/NH-317(14) | 45I |
| | | | |
| | | | |

REV. 05-09-14: ADJUSTED CONST. ESM'T. FOR TEMPORARY DIVERSION CHANNEL ON TRACT 73.




CONSTRUCTION NOTES: TEMPORARY CHANNEL DIVERSION MUST FIRST BE CONSTRUCTED AND STABILIZED PRIOR TO ANY OTHER EARTH MOVING ACTIVITIES THAT DRAIN TO OUT-19. THIS PHASE CORRESPONDS TO TRAFFIC CONTROL PHASE 1.

EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 215+00 TO STA. 255+00

SCALE: 1"= 50'

8-JUN-2014 08:18
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42J |
| CONST. | 2014 | STP/NH-317(14) | 45J |
| | | | |
| | | | |

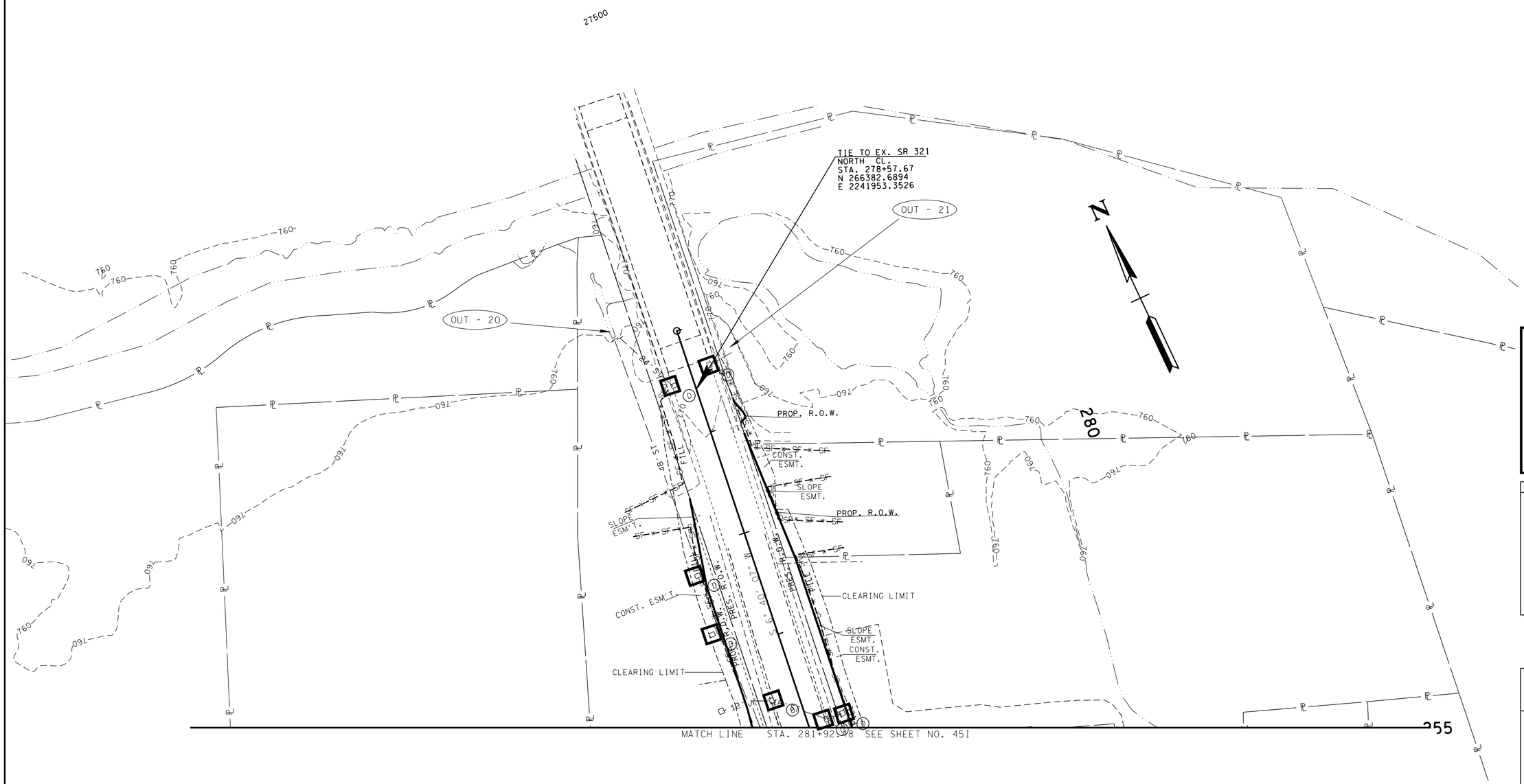
REV-10-22-12: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 70.

REV-10-30-12: SHOW PRESENT PARKING LOTS ON TRACT 70.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE.

REV. 06-14-13: ADJUSTED SLOPE & CONST. ESM'T ON TRACT 70.

REV. 03-19-14: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.




EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
OF
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

8-JUN-2014 08:18
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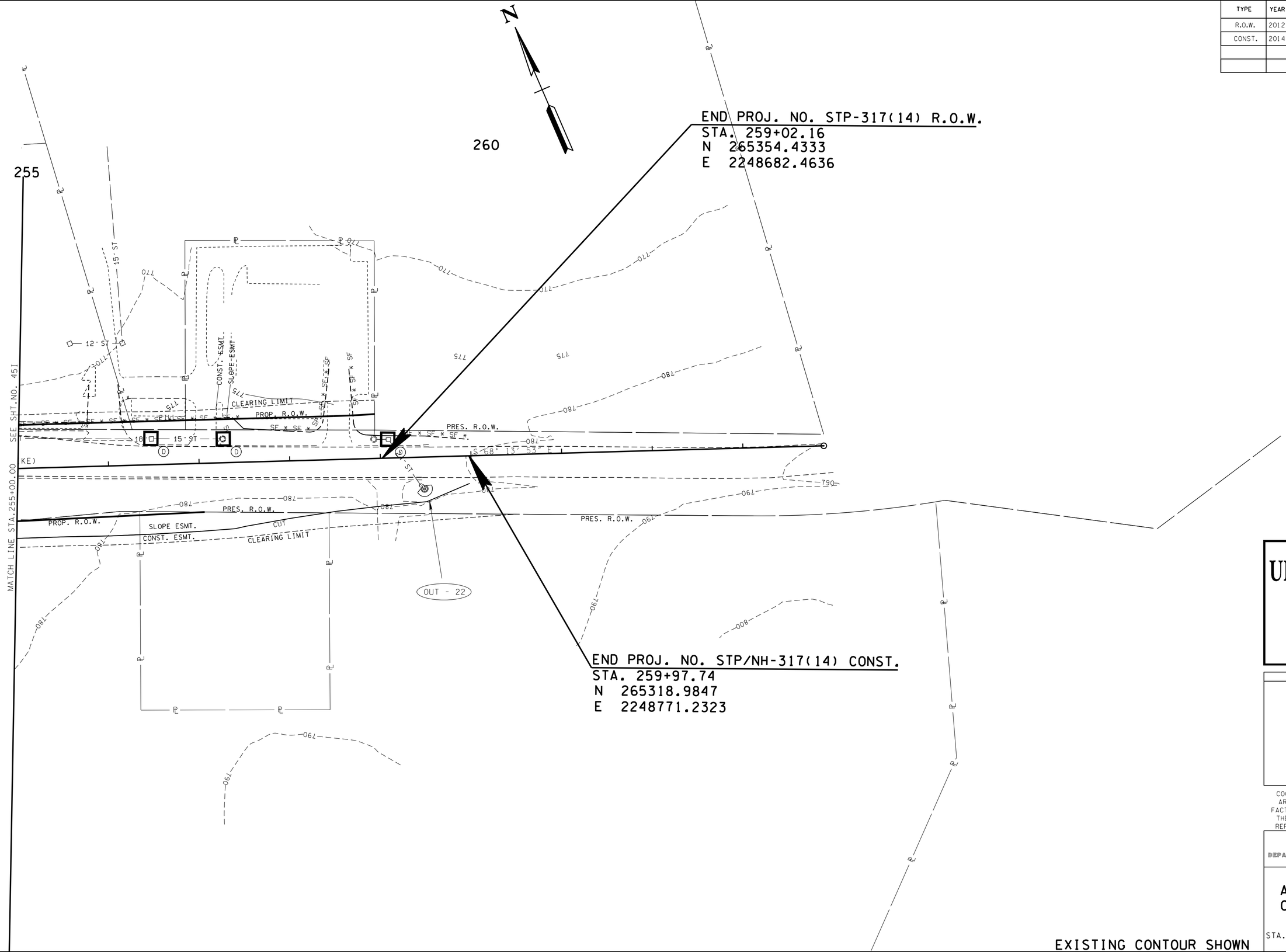
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 42K |
| CONST. | 2014 | STP/NH-317(14) | 45K |
| | | | |
| | | | |




EXISTING CONTOUR SHOWN

**UNOFFICIAL SET**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 1

STA. 255+00 TO STA. 263+89

SCALE: 1" = 50'

8-JUN-2014 08:18
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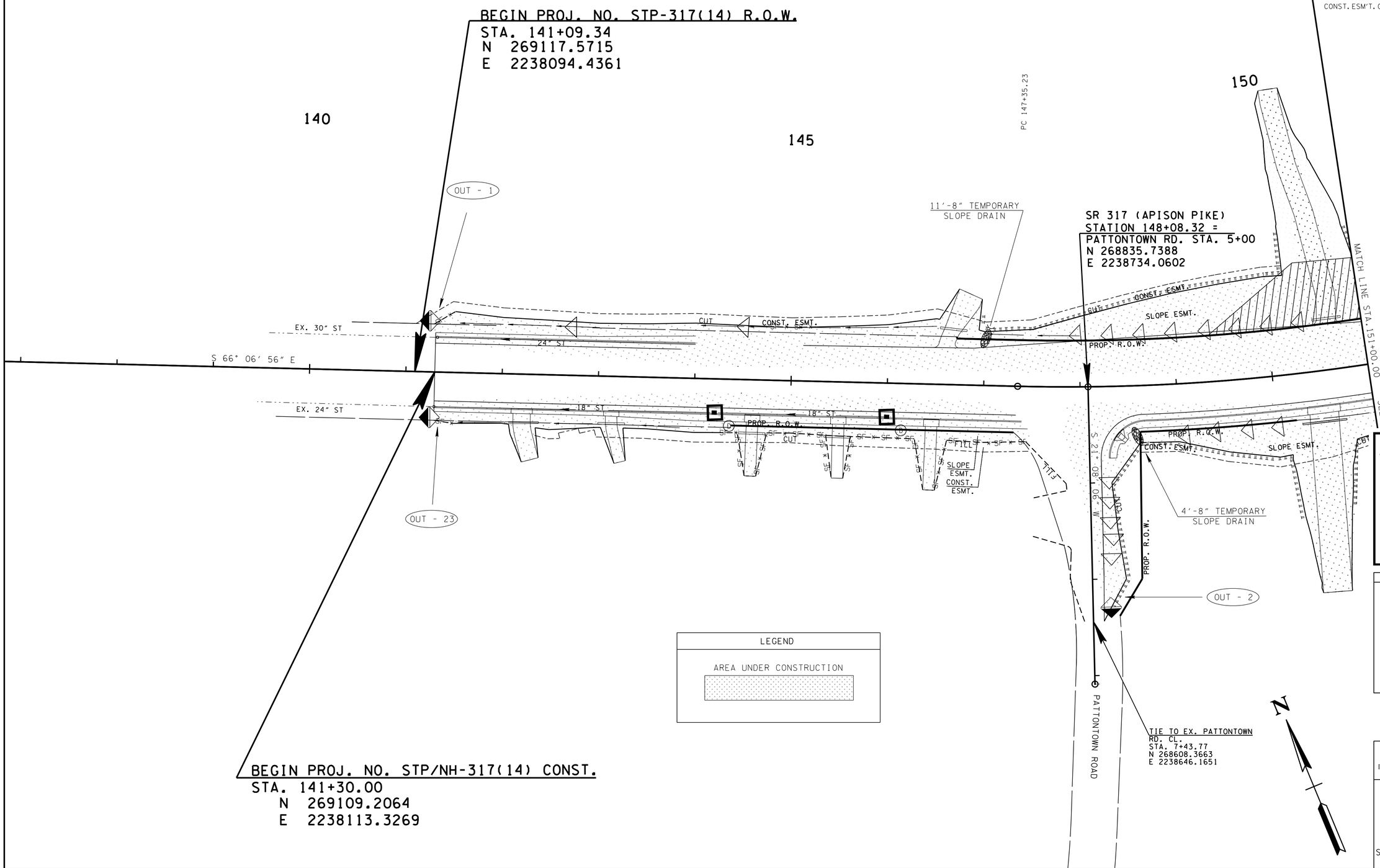
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43 |
| CONST. | 2014 | STP/NH-317(14) | 46 |
| | | | |
| | | | |

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50.00 RT., WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT., ADJUSTED PERMANENT DRAINAGE ESM'T., AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNERS' REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

8-JUN-2014 08:18
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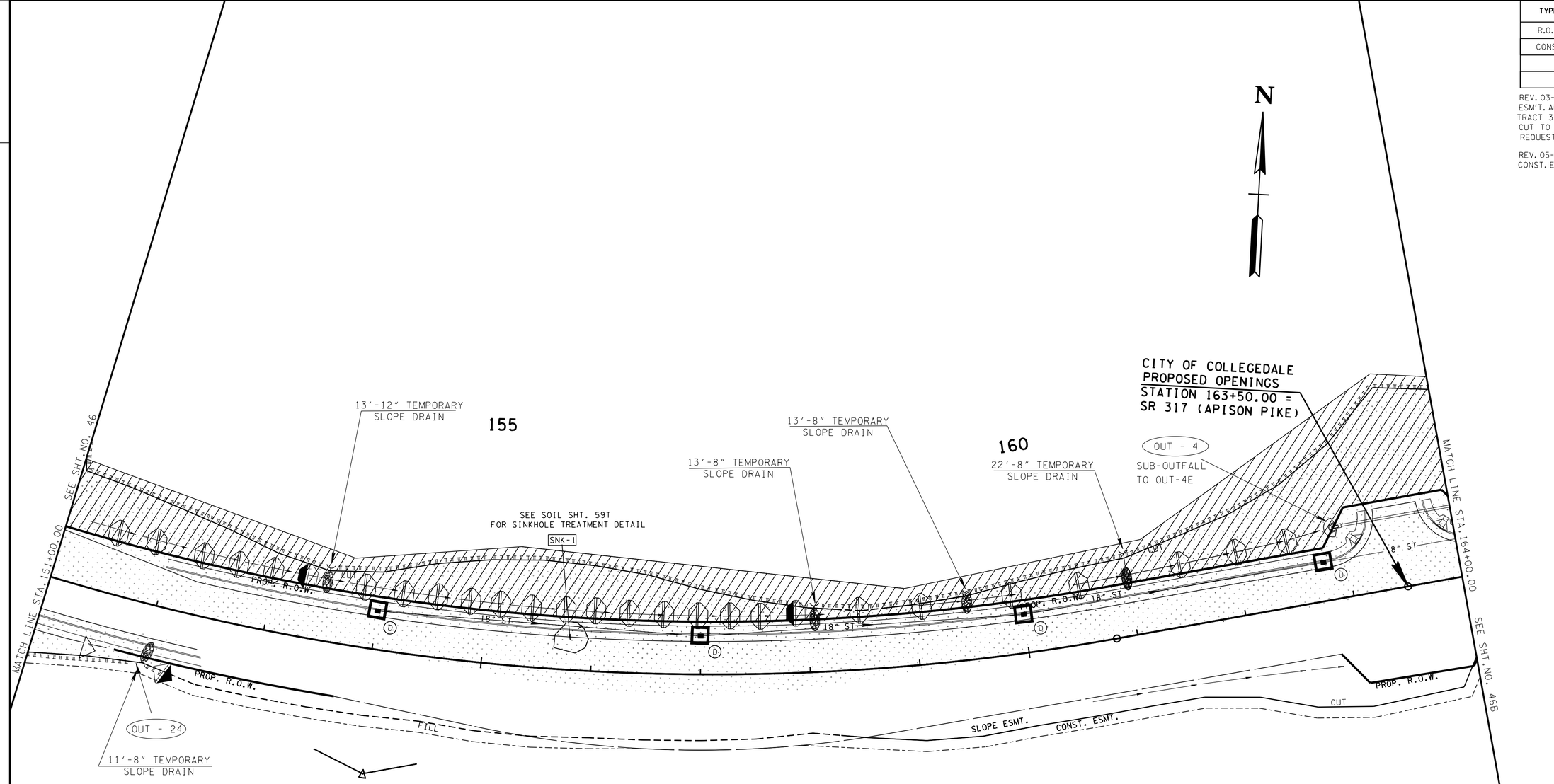
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43A |
| CONST. | 2014 | STP/NH-317(14) | 46A |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED 40' CURB CUT TO TRACT 4 STA. 158+20 RT. PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 151+00 TO STA. 164+00

SCALE: 1" = 50'

8-JUN-2014 08:18
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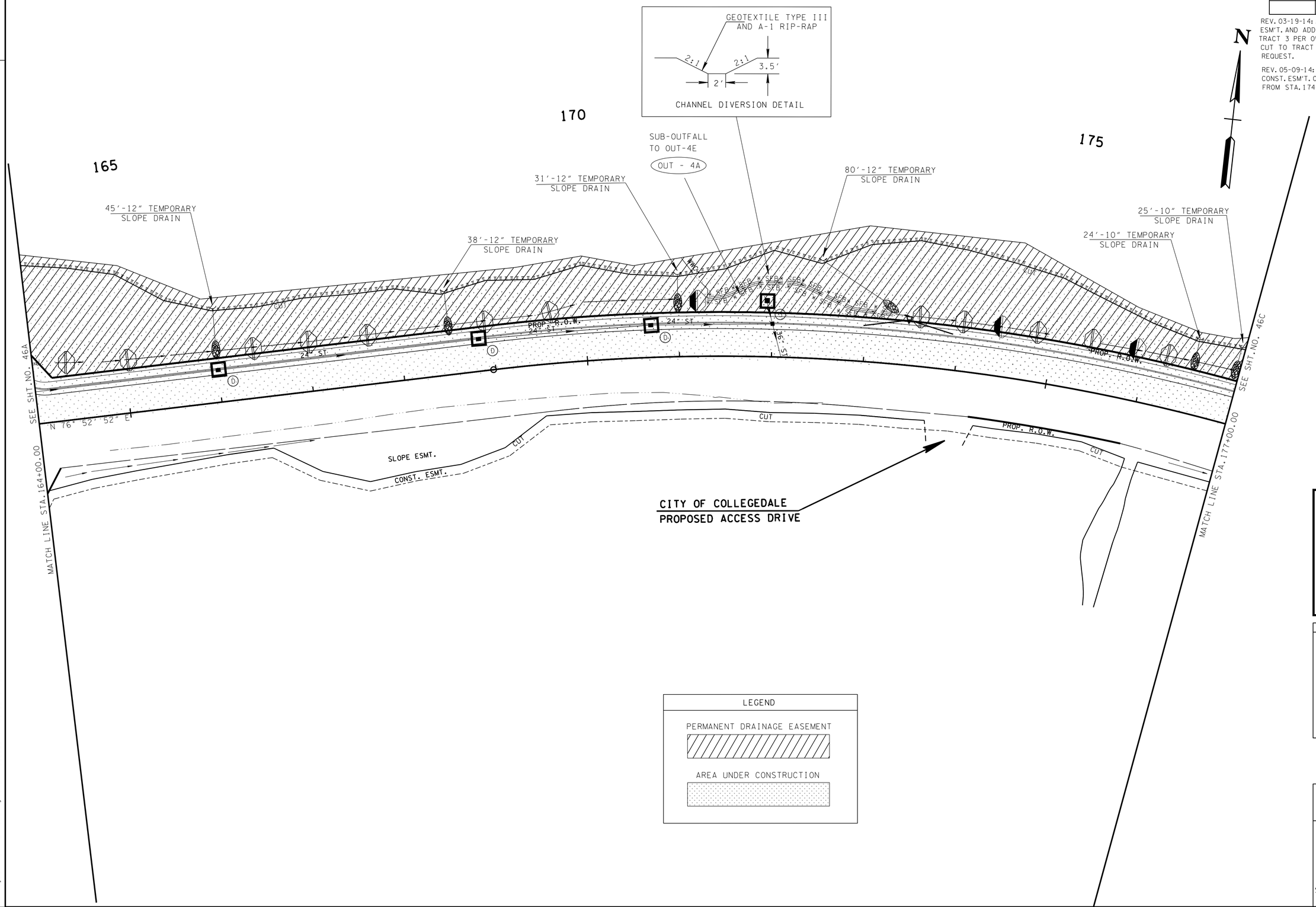
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43B |
| CONST. | 2014 | STP/NH-317(14) | 46B |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED 40' CURB CUT TO TRACT 4 STA. 168+25 RT. PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3. SHIFTED ACCESS DR. RT. FROM STA. 174+00 TO STA. 173+98 ON TRACT 4.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

8-JUN-2014 08:18
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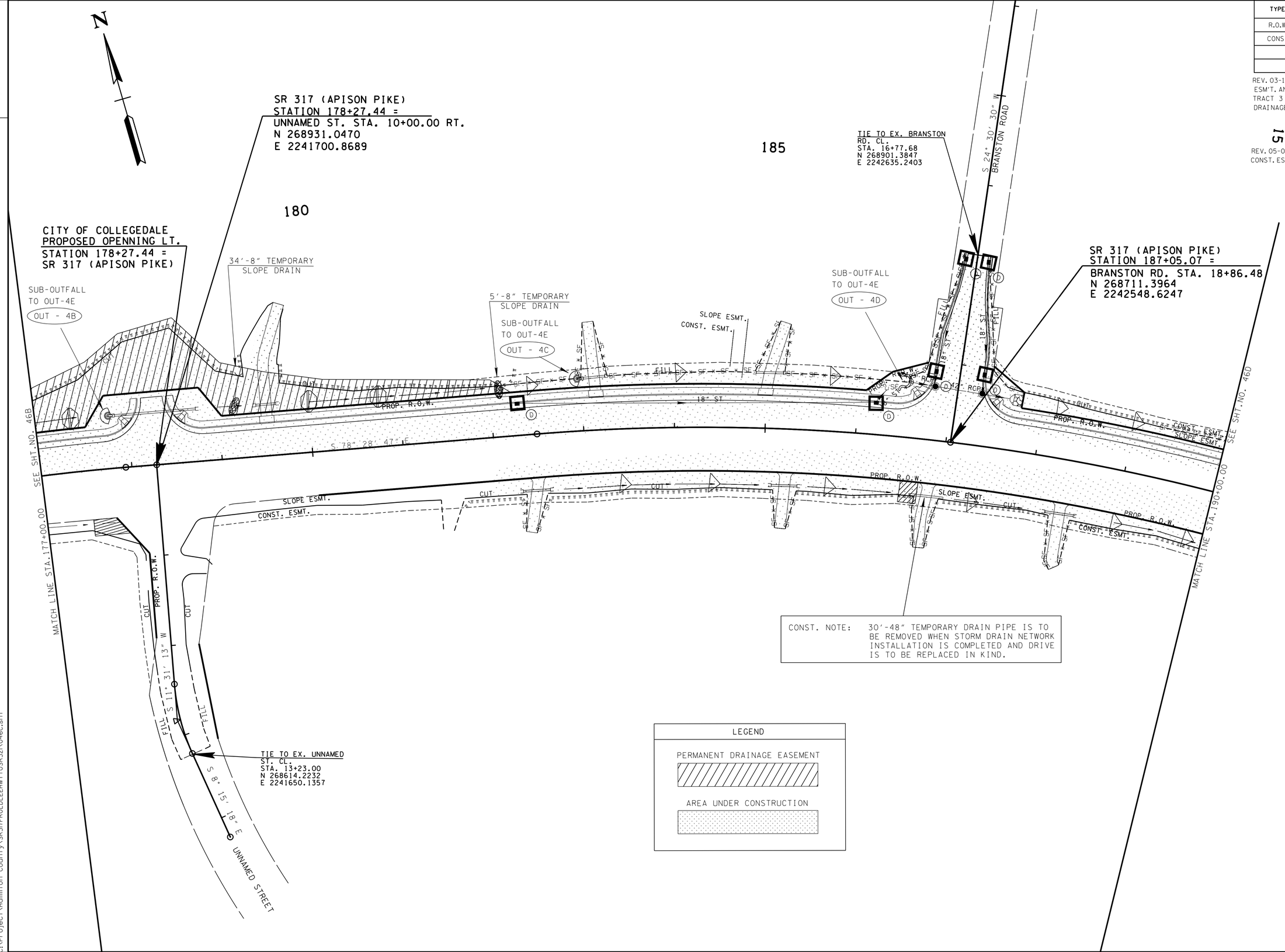
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43C |
| CONST. | 2014 | STP/NH-317(14) | 46C |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 13 FOR CATCHBASIN.

15

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

8-JUN-2014 08:18
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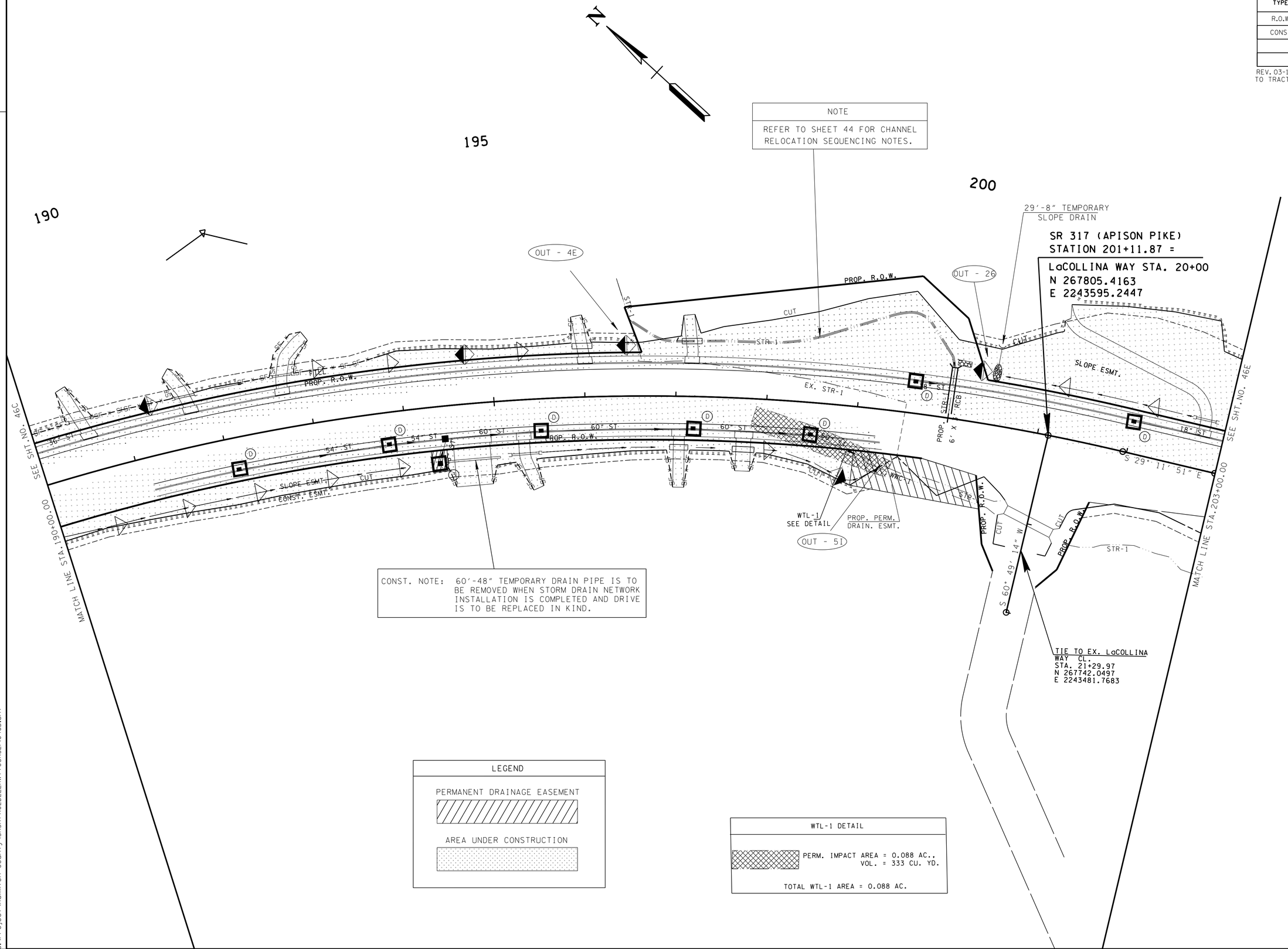
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43D |
| CONST. | 2014 | STP/NH-317(14) | 46D |
| | | | |
| | | | |

REV. 03-19-14: ADDED PERMANEN DRAINAGE ESM'T. TO TRACT 18 FOR CATCHBASIN.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

18-JUN-2014 08:18
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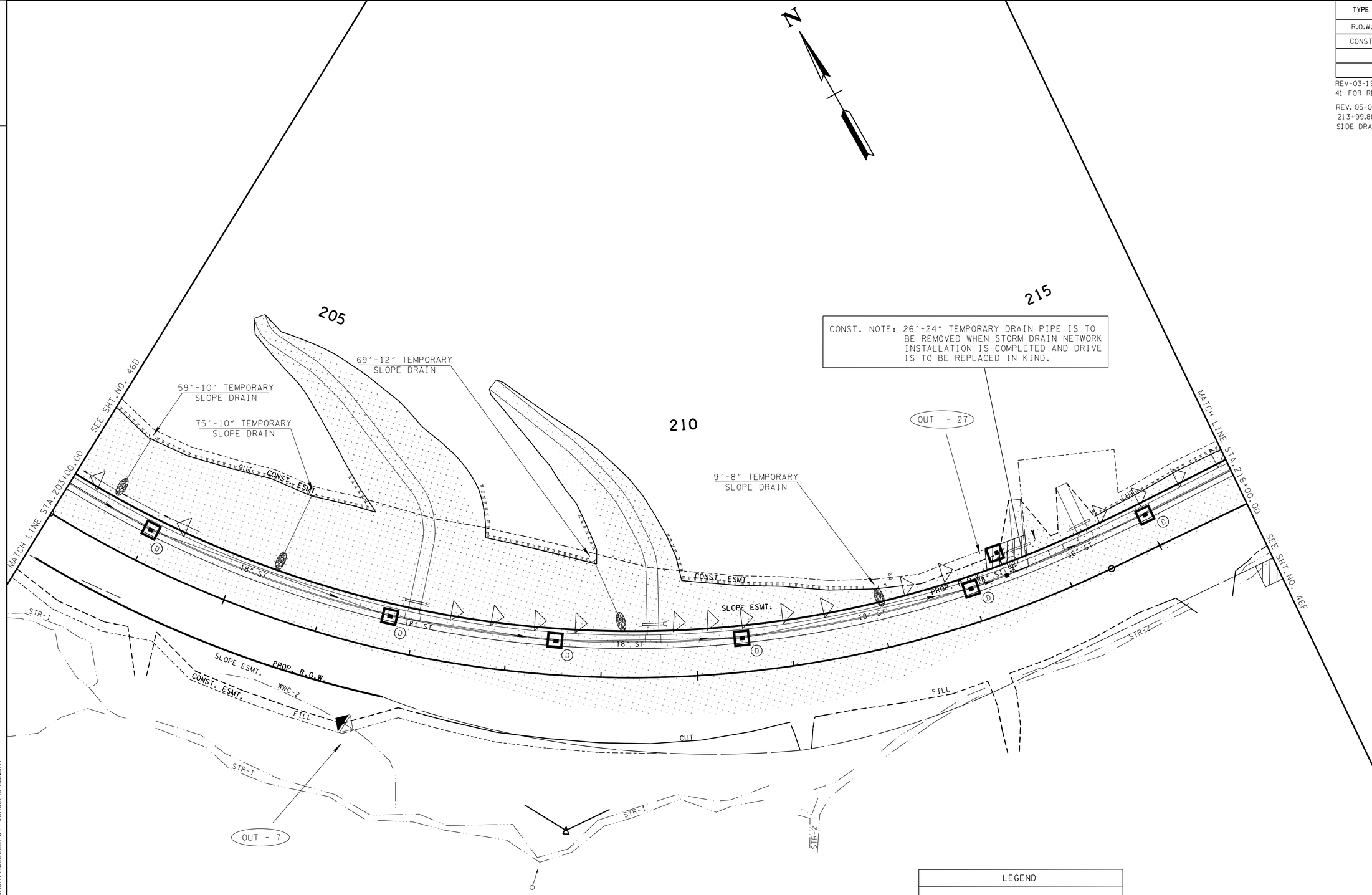
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43E |
| CONST. | 2014 | STP/NH-317(14) | 46E |
| | | | |
| | | | |

REV-03-19-14: ADJUSTED CONST. ESM'T. TO TRACT 41 FOR REMOVAL OF HOUSE.

REV. 05-09-14: SHIFTED PVT. DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 AND ADDED SIDE DRAIN ON TRACT 41.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

8-JUN-2014 08:18
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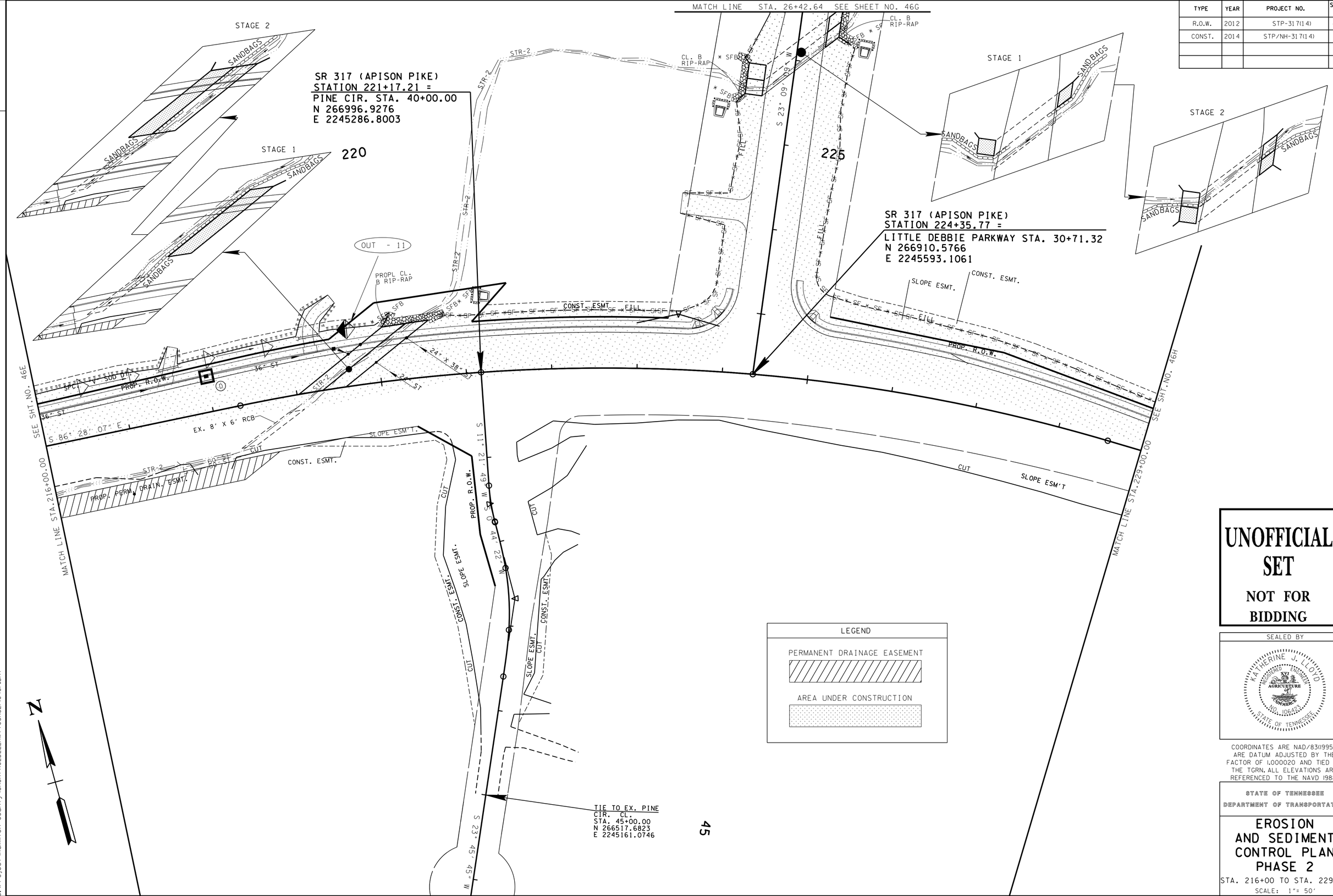
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43F |
| CONST. | 2014 | STP/NH-317(14) | 46F |
| | | | |
| | | | |




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

45

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

28-JUN-2014 08:18
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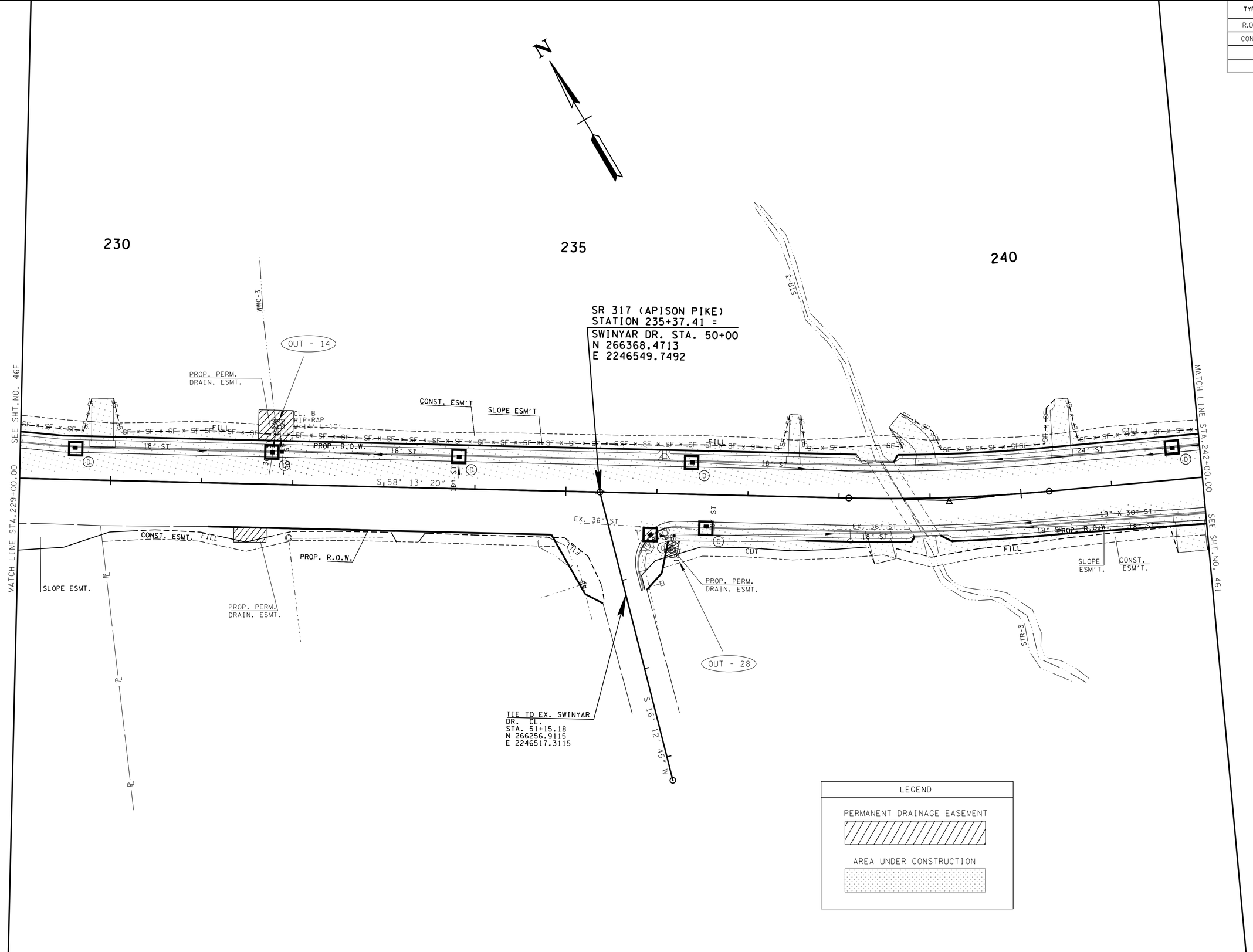
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43H |
| CONST. | 2014 | STP/NH-317(14) | 46H |
| | | | |
| | | | |




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

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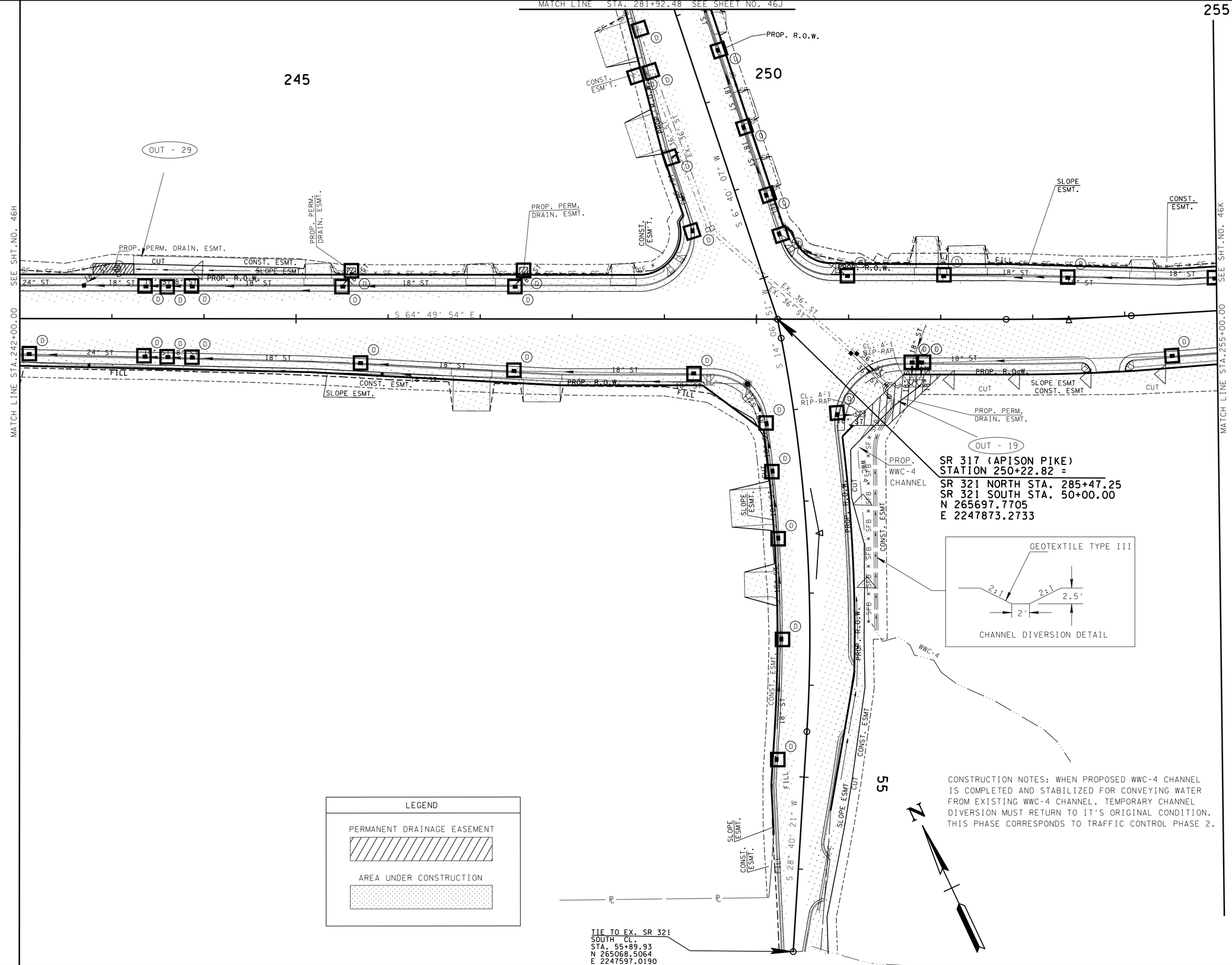
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43I |
| CONST. | 2014 | STP/NH-317(14) | 46I |
| | | | |
| | | | |

REV. 05-09-14: ADDED 30' CURB CUT AT STATION 54+64.14 RIGHT ON S.R. 321 SOUTH BETWEEN TRACTS 77 & 78. ADJUSTED CONST. ESM'T. ON TRACT 73 FOR TEMPORARY DIVERSION CHANNEL.



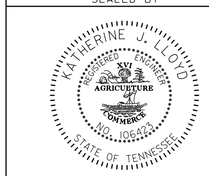

CONSTRUCTION NOTES: WHEN PROPOSED WWC-4 CHANNEL IS COMPLETED AND STABILIZED FOR CONVEYING WATER FROM EXISTING WWC-4 CHANNEL. TEMPORARY CHANNEL DIVERSION MUST RETURN TO IT'S ORIGINAL CONDITION. THIS PHASE CORRESPONDS TO TRAFFIC CONTROL PHASE 2.

| LEGEND |
|---|
| PERMANENT DRAINAGE EASEMENT |
| AREA UNDER CONSTRUCTION |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 215+00 TO STA. 255+00

SCALE: 1"= 50'

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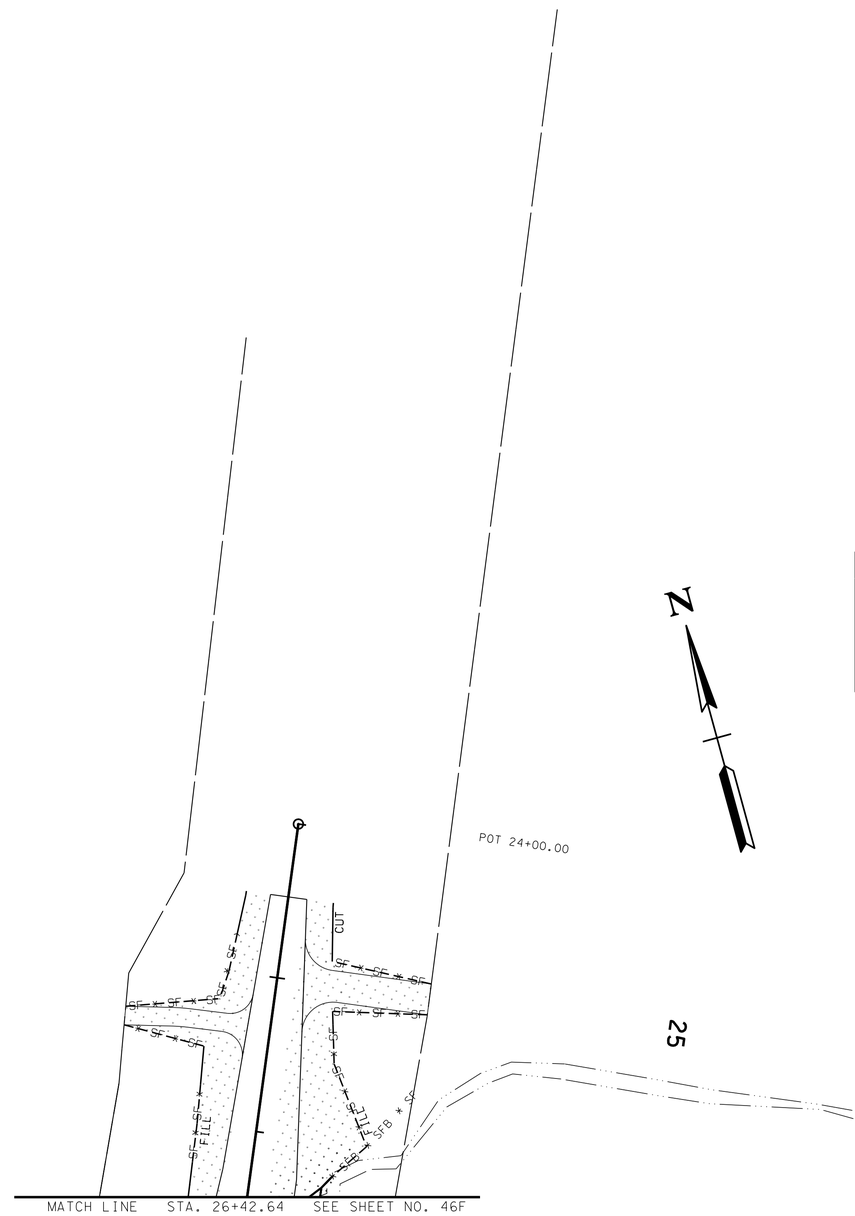
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43G |
| CONST. | 2014 | STP/NH-317(14) | 46G |
| | | | |
| | | | |




LEGEND

AREA UNDER CONSTRUCTION

N

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 26+42 TO STA. 24+47

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43J |
| CONST. | 2014 | STP/NH-317(14) | 46J |
| | | | |
| | | | |

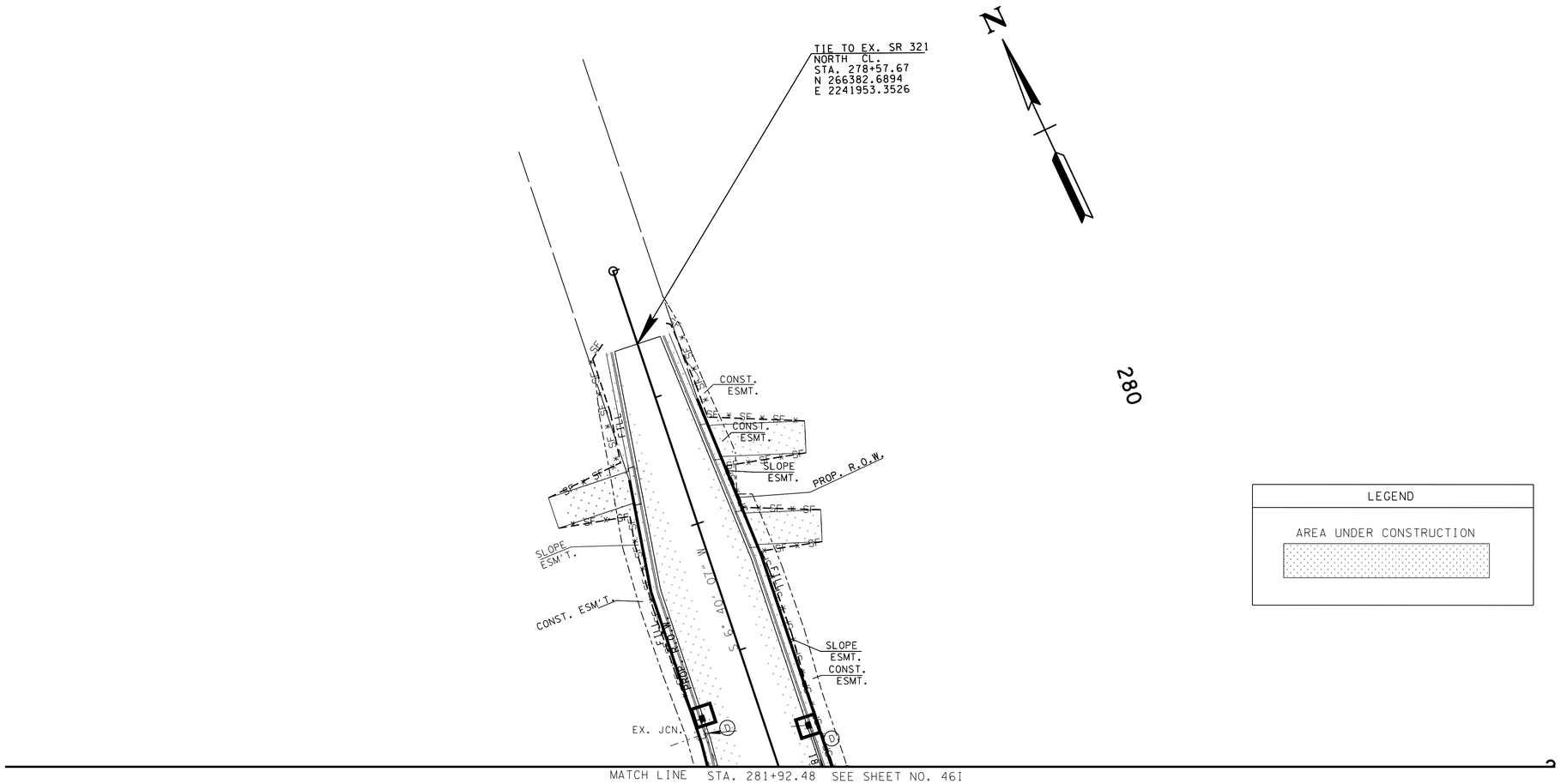
REV-10-22-12: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 70.

REV-10-30-12: SHOW PRESENT PARKING LOTS ON TRACT 70.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE.

REV. 06-14-13: ADJUSTED SLOPE & CONST. ESM'T ON TRACT 70.

REV. 03-19-14: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.




LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106433
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

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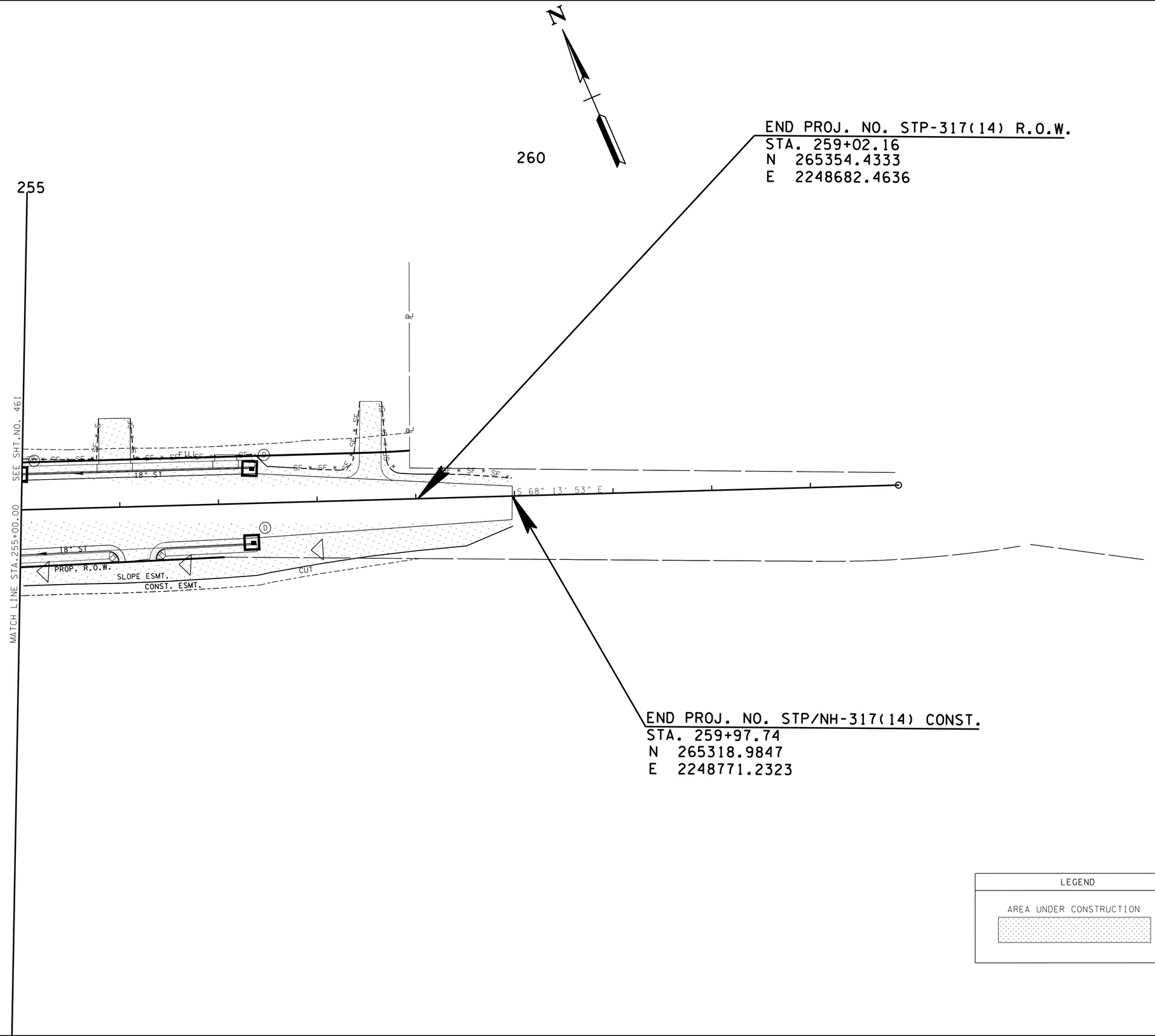
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 43K |
| CONST. | 2014 | STP/NH-317(14) | 46K |
| | | | |
| | | | |




LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 2

STA. 255+00 TO STA. 259+97

SCALE: 1"= 50'

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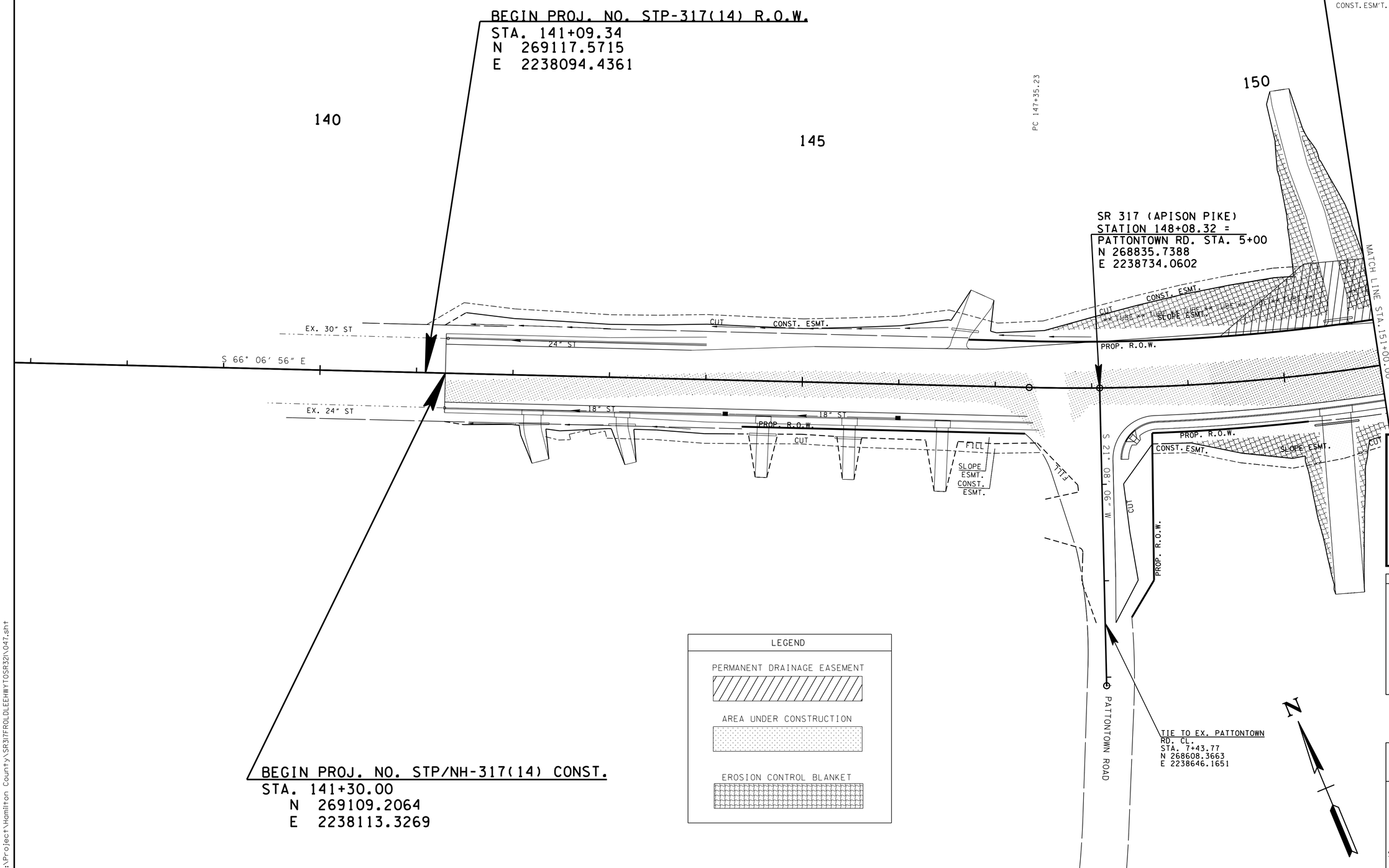
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44 |
| CONST. | 2014 | STP/NH-317(14) | 47 |
| | | | |
| | | | |

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50.00 RT., WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT., ADJUSTED PERMANENT DRAINAGE ESM'T., AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNERS' REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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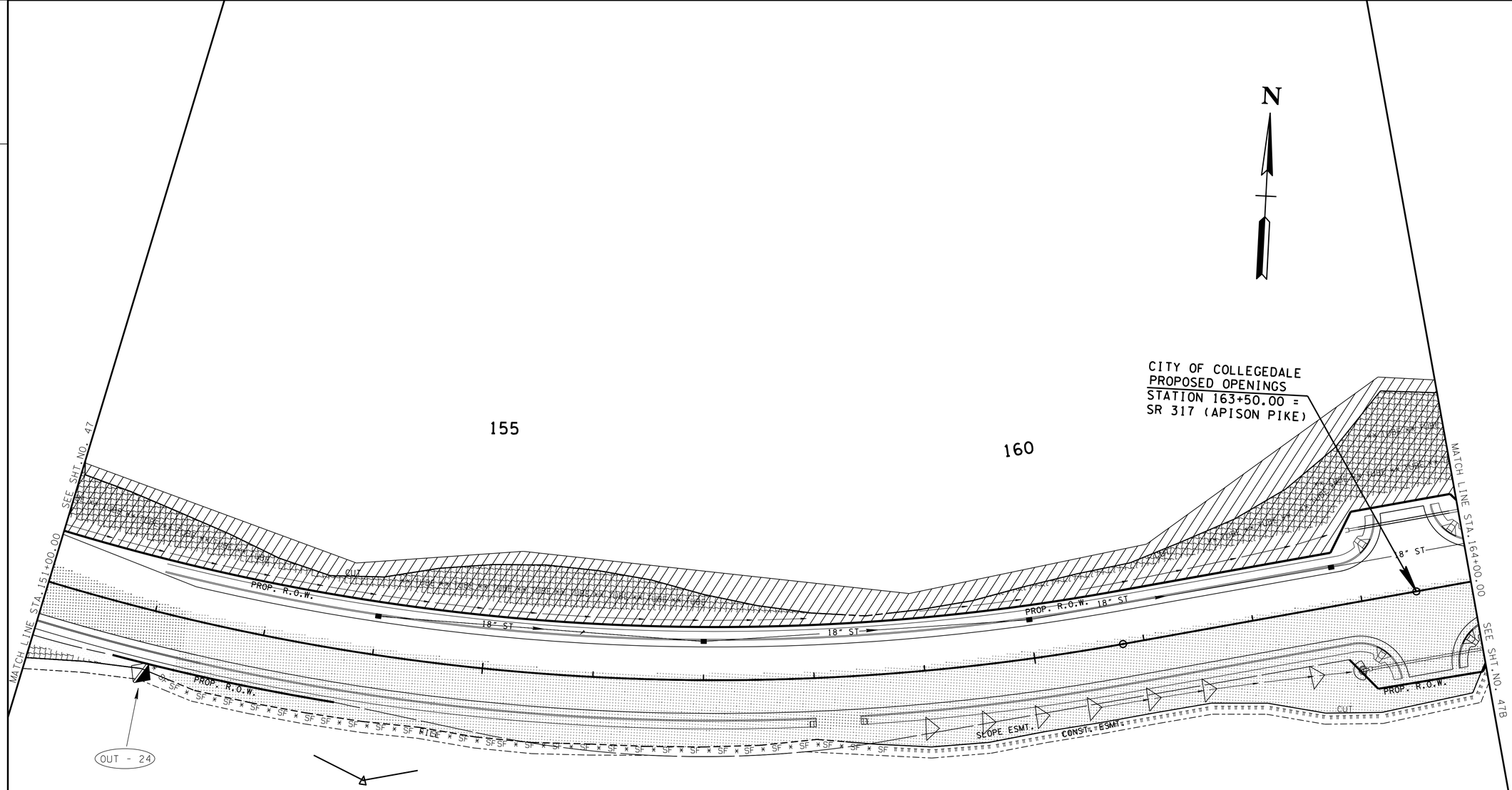
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44A |
| CONST. | 2014 | STP/NH-317(14) | 47A |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED 40' CURB CUT TO TRACT 4 STA. 158+20 RT. PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

EROSION CONTROL BLANKET

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

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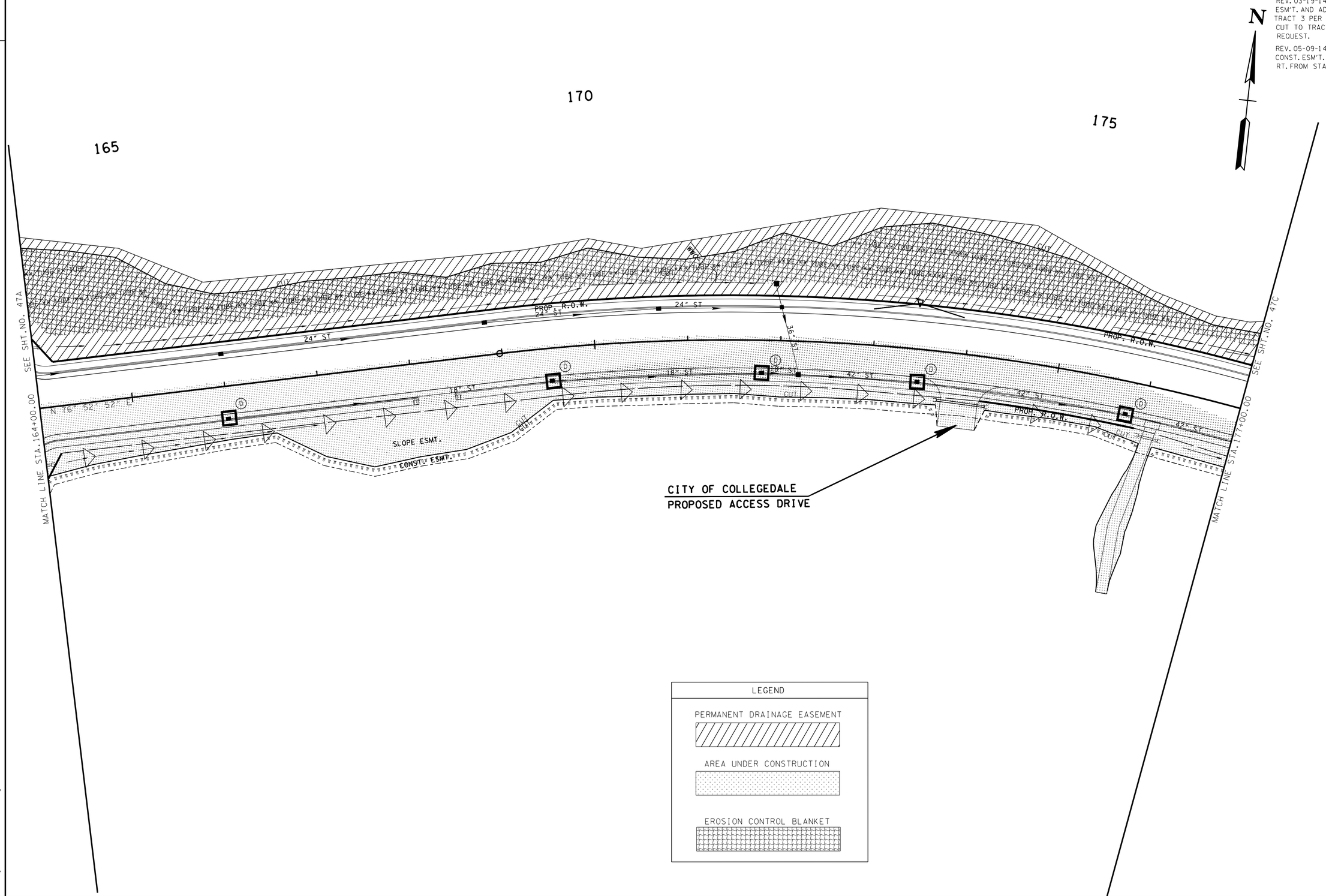
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44B |
| CONST. | 2014 | STP/NH-317(14) | 47B |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED 40' CURB CUT TO TRACT 4 STA. 168+25 RT. PER OWNER'S REQUEST.

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3. SHIFTED ACCESS DR. RT. FROM STA. 174+00 TO STA. 173+98 ON TRACT 4.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

EROSION CONTROL BLANKET

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

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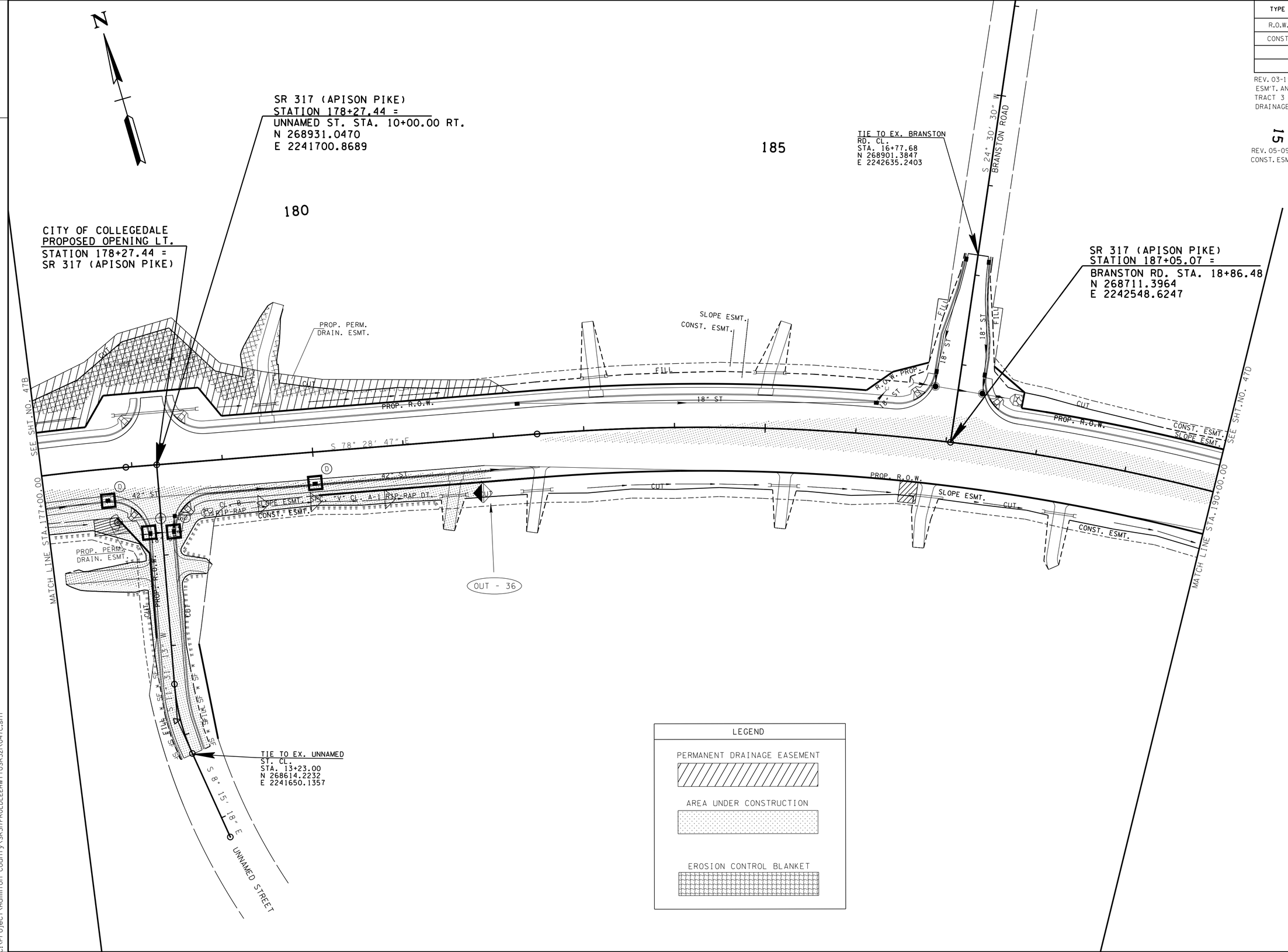
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44C |
| CONST. | 2014 | STP/NH-317(14) | 47C |
| | | | |
| | | | |

REV. 03-19-14: ADJUSTED PERMANENT DRAINAGE ESM'T. AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNER'S REQUEST. ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 13 FOR CATCHBASIN.

15

REV. 05-09-14: ADJUSTED PERM. DRNG., SLOPE AND CONST. ESM'T. ON TRACT 3.




UNOFFICIAL SET

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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

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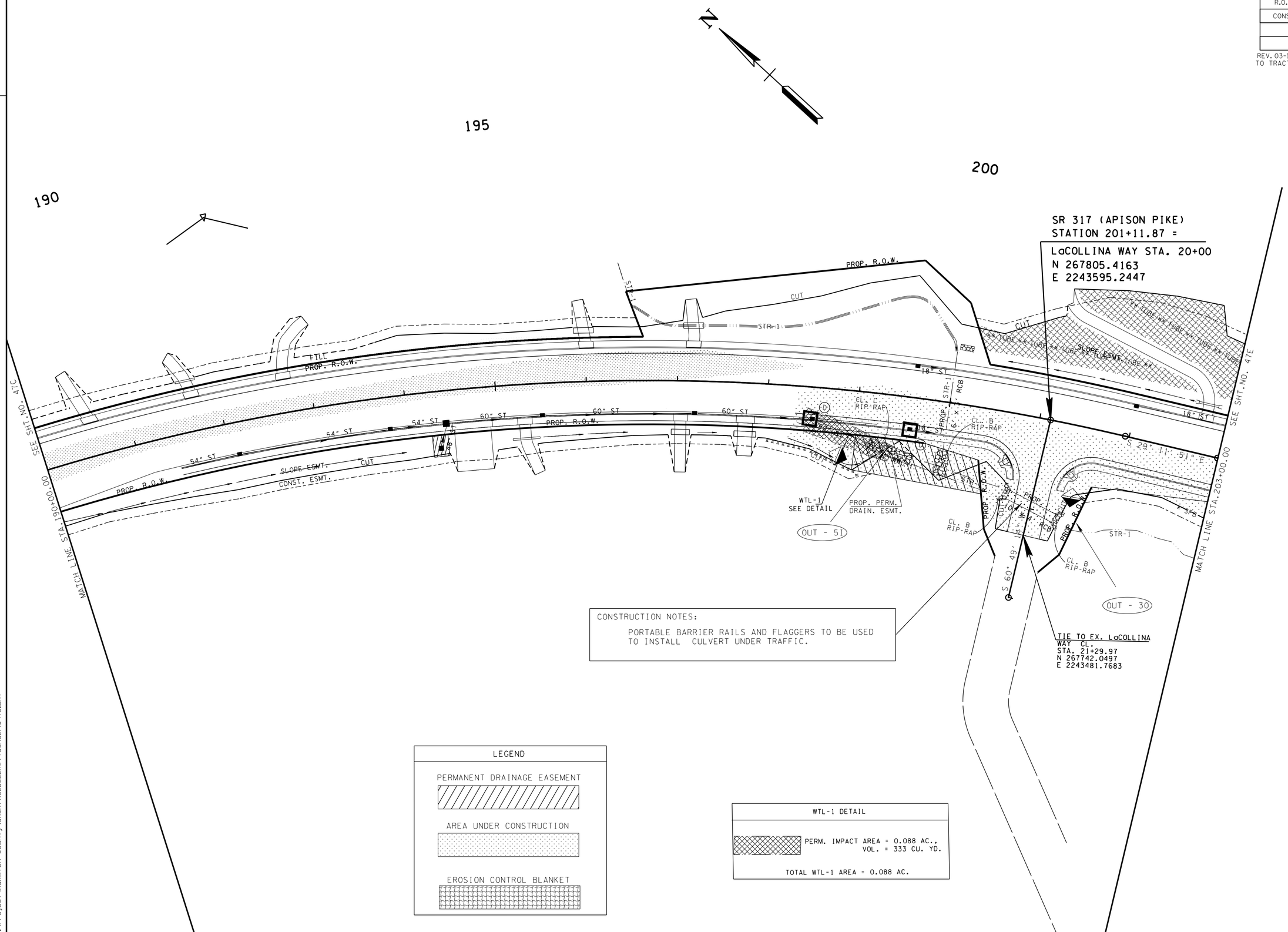
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44D |
| CONST. | 2014 | STP/NH-317(14) | 47D |
| | | | |
| | | | |

REV. 03-19-14: ADDED PERMANENT DRAINAGE ESM'T. TO TRACT 18 FOR CATCHBASIN.




CONSTRUCTION NOTES:

PORTABLE BARRIER RAILS AND FLAGGERS TO BE USED TO INSTALL CULVERT UNDER TRAFFIC.

LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

EROSION CONTROL BLANKET

WTL-1 DETAIL

PERM. IMPACT AREA = 0.088 AC.,
VOL. = 333 CU. YD.

TOTAL WTL-1 AREA = 0.088 AC.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OF
COMMERCE
NO. 106422
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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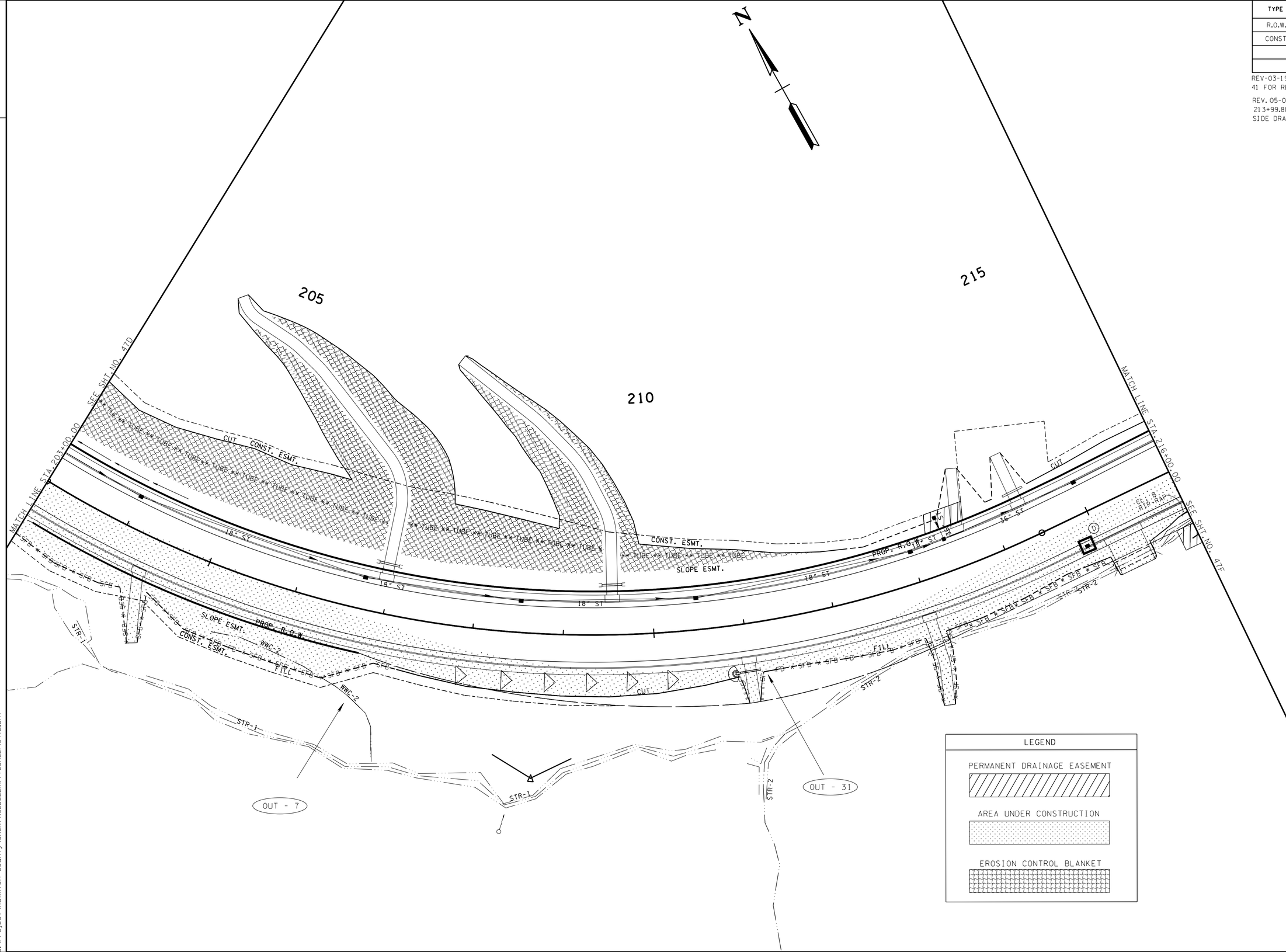
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44E |
| CONST. | 2014 | STP/NH-317(14) | 47E |
| | | | |
| | | | |

REV-03-19-14: ADJUSTED CONST. ESM'T. TO TRACT 41 FOR REMOVAL OF HOUSE.

REV. 05-09-14: SHIFTED PVT. DR. LT. FROM STA. 213+99.88 TO STA. 214+34.04 AND ADDED SIDE DRAIN ON TRACT 41.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

EROSION CONTROL BLANKET

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106433
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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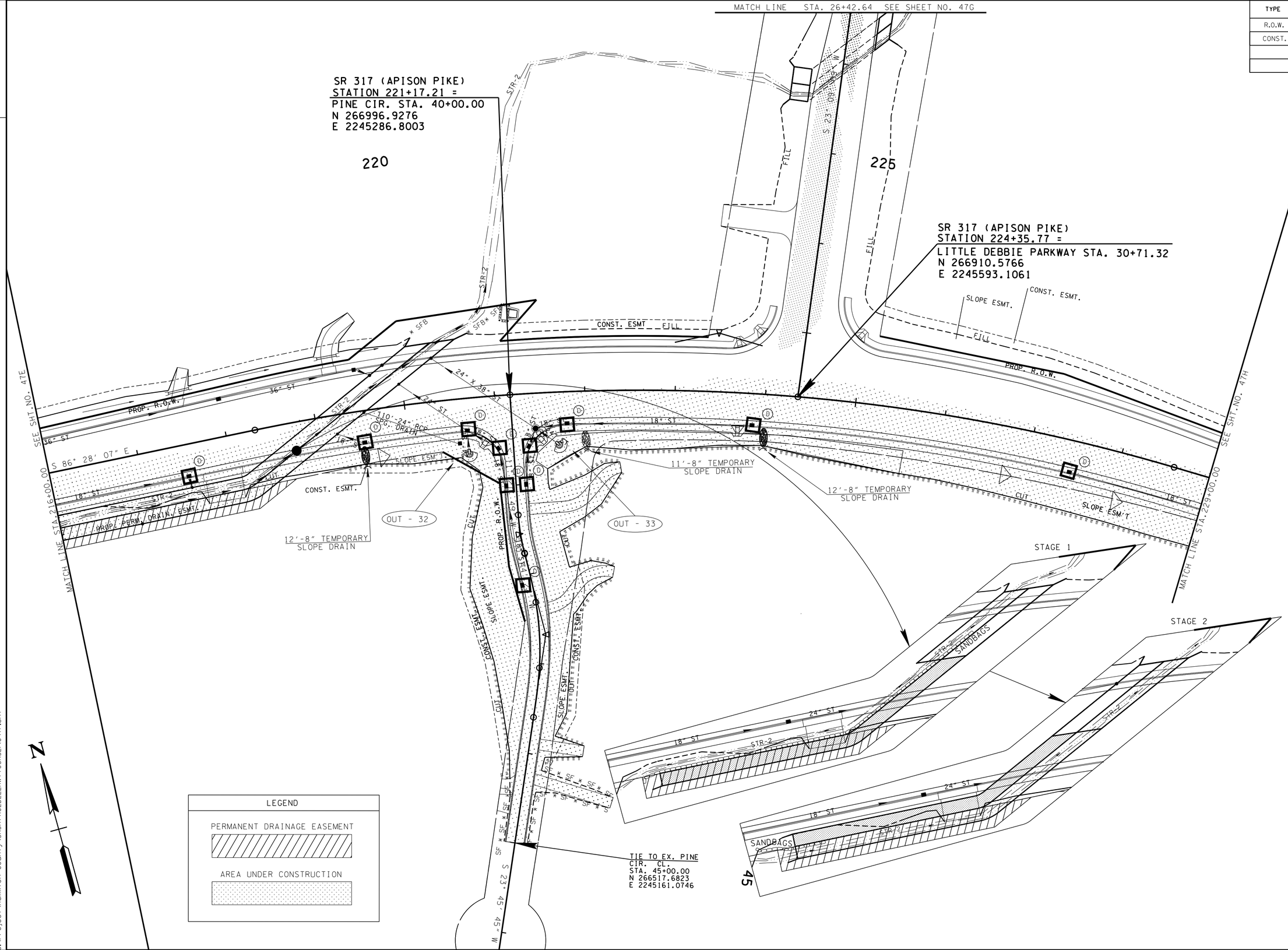
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44F |
| CONST. | 2014 | STP/NH-317(14) | 47F |
| | | | |
| | | | |




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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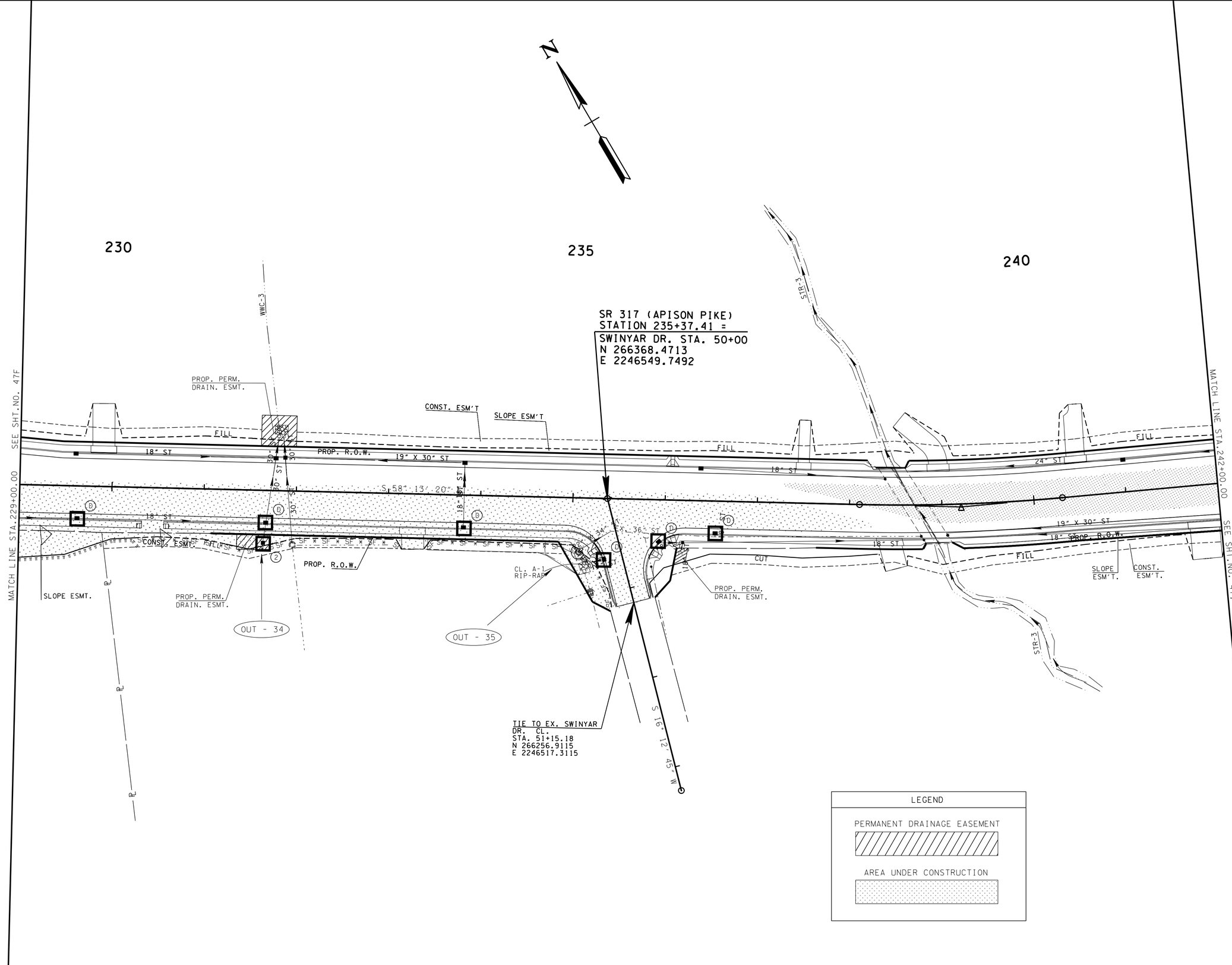
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44H |
| CONST. | 2014 | STP/NH-317(14) | 47H |
| | | | |
| | | | |

REV. 05-09-14: ADDED 24' CURB & SIDEWALK CUT AT STATION 230+45.00 RIGHT ON TRACT 57.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

# UNOFFICIAL SET

## NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

20-JUN-2014 14:18
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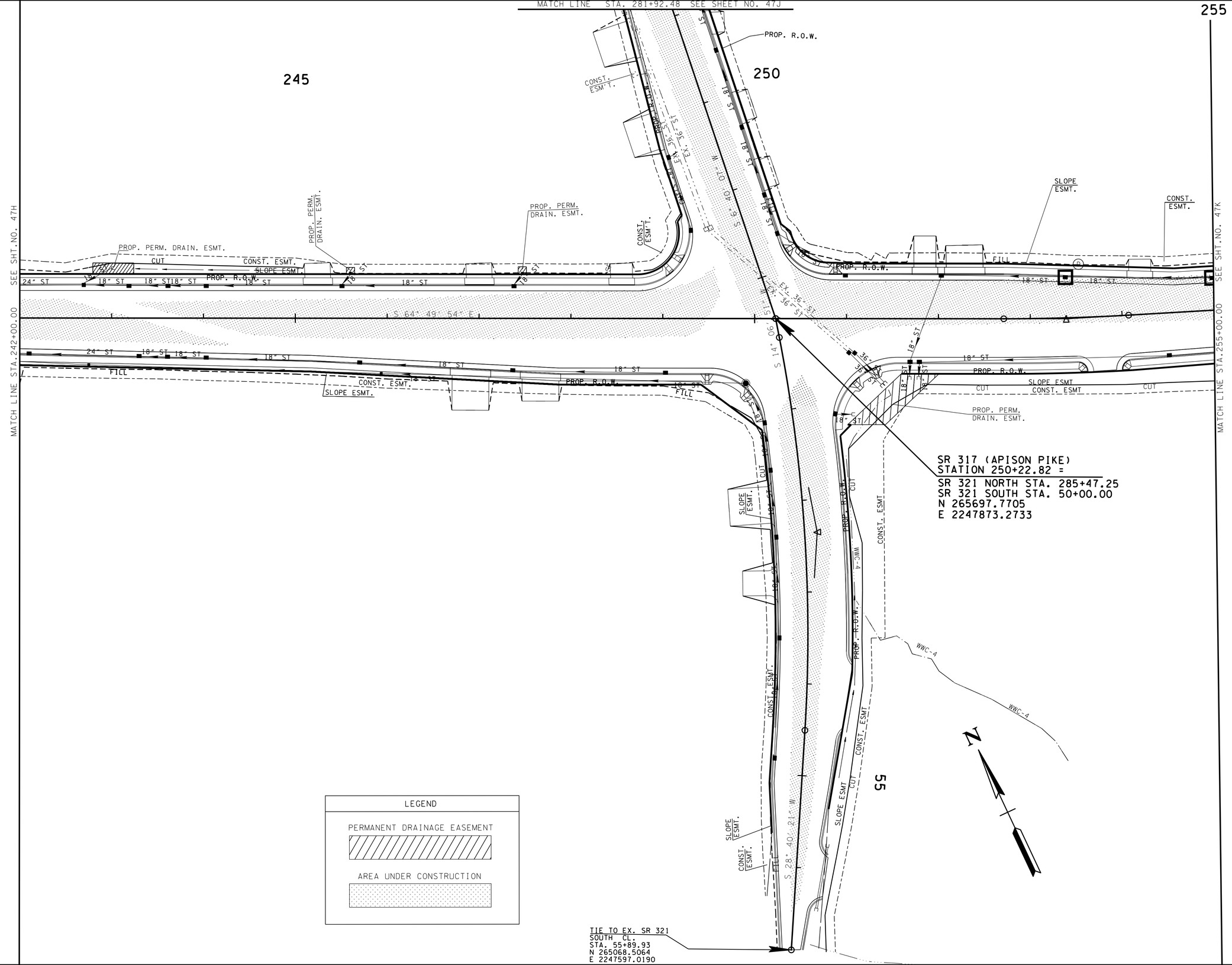
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44I |
| CONST. | 2014 | STP/NH-317(14) | 47I |
| | | | |
| | | | |

REV. 05-09-14: ADDED 30' CURB CUT AT STATION 54+64.14 RIGHT ON S.R. 321 SOUTH BETWEEN TRACTS 77 & 78. ADJUSTED CONST. ESM'T. ON TRACT 73 FOR TEMPORARY DIVERSION CHANNEL.




LEGEND

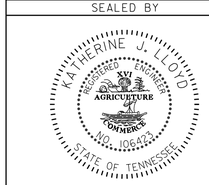
PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 215+00 TO STA. 255+00

SCALE: 1" = 50'

20-JUN-2014 14:18
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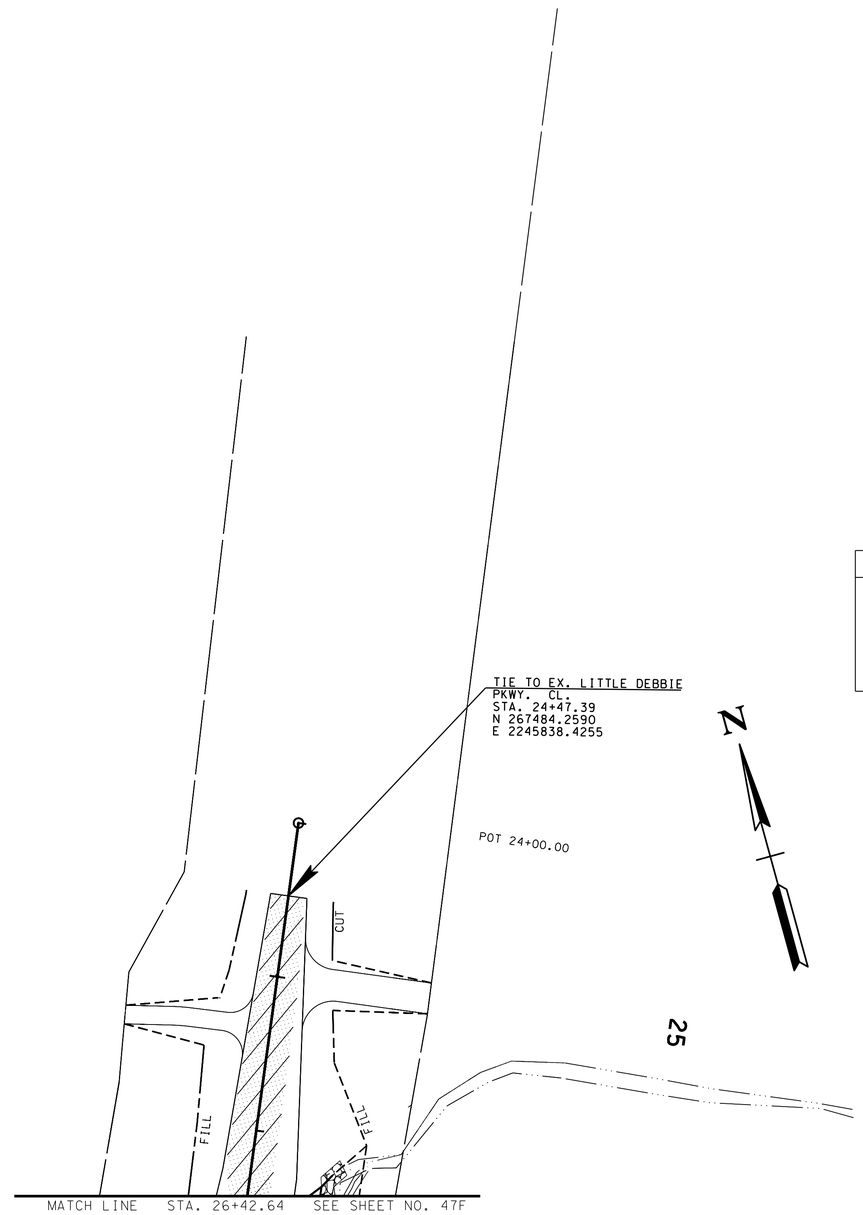
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44G |
| CONST. | 2014 | STP/NH-317(14) | 47G |
| | | | |
| | | | |




LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 26+42 TO STA. 24+47

SCALE: 1"= 50'

8-JUN-2014 08:19
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44J |
| CONST. | 2014 | STP/NH-317(14) | 47J |
| | | | |
| | | | |

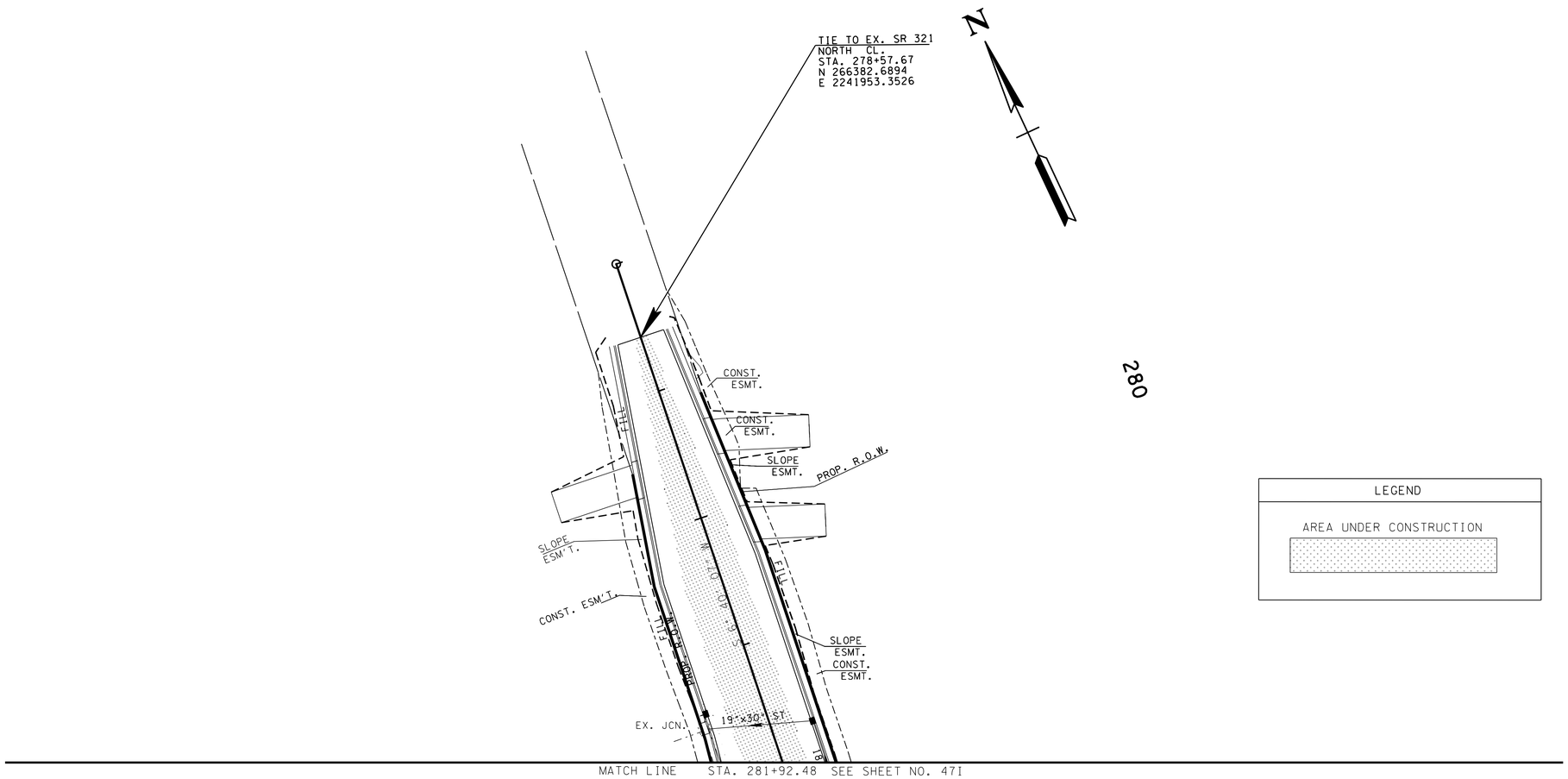
REV-10-22-12: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 70.

REV-10-30-12: SHOW PRESENT PARKING LOTS ON TRACT 70.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE.

REV. 06-14-13: ADJUSTED SLOPE & CONST. ESM'T ON TRACT 70.

REV. 03-19-14: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.




LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 44K |
| CONST. | 2014 | STP/NH-317(14) | 47K |
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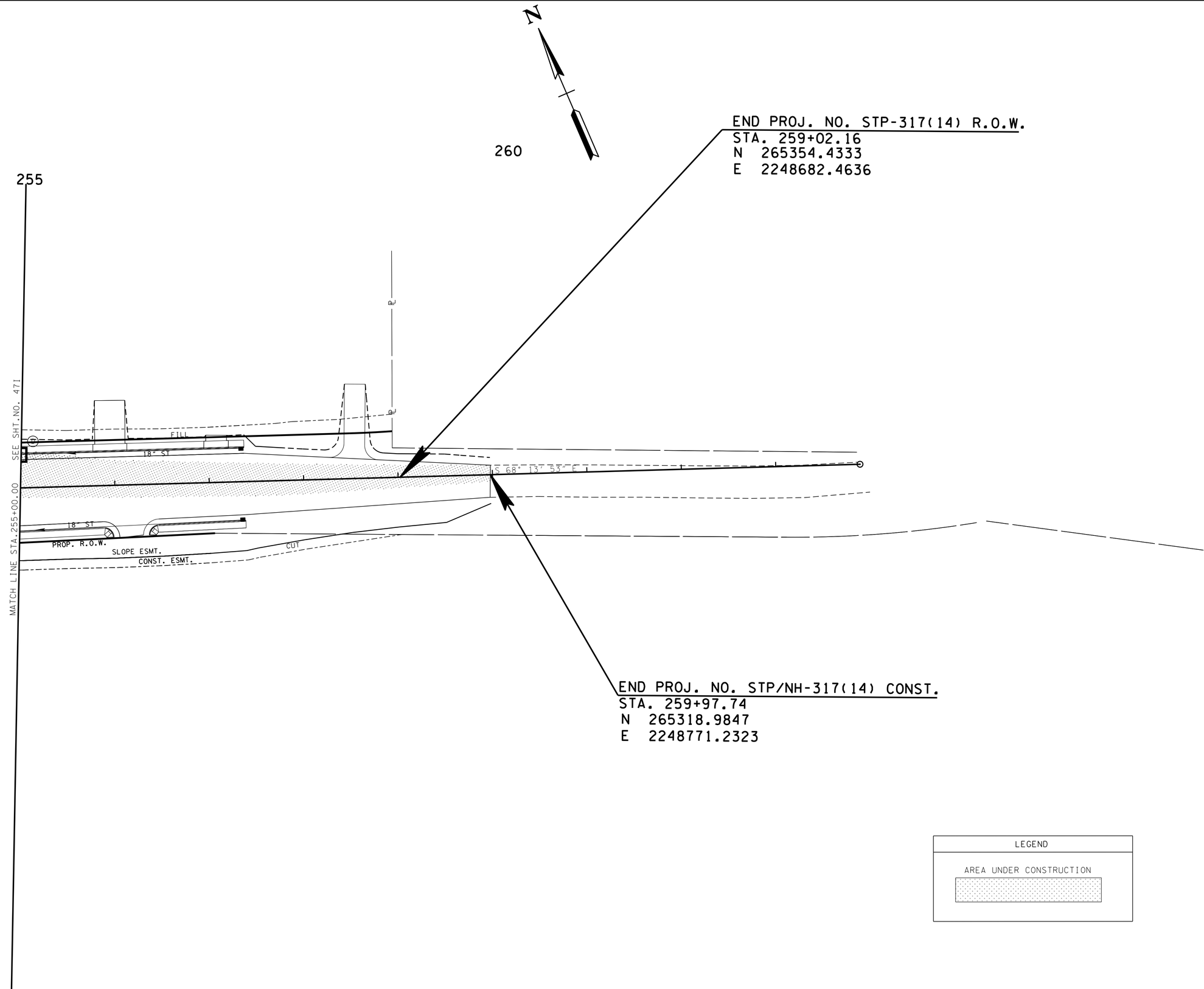


LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 3

STA. 255+00 TO STA. 263+89

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48 |
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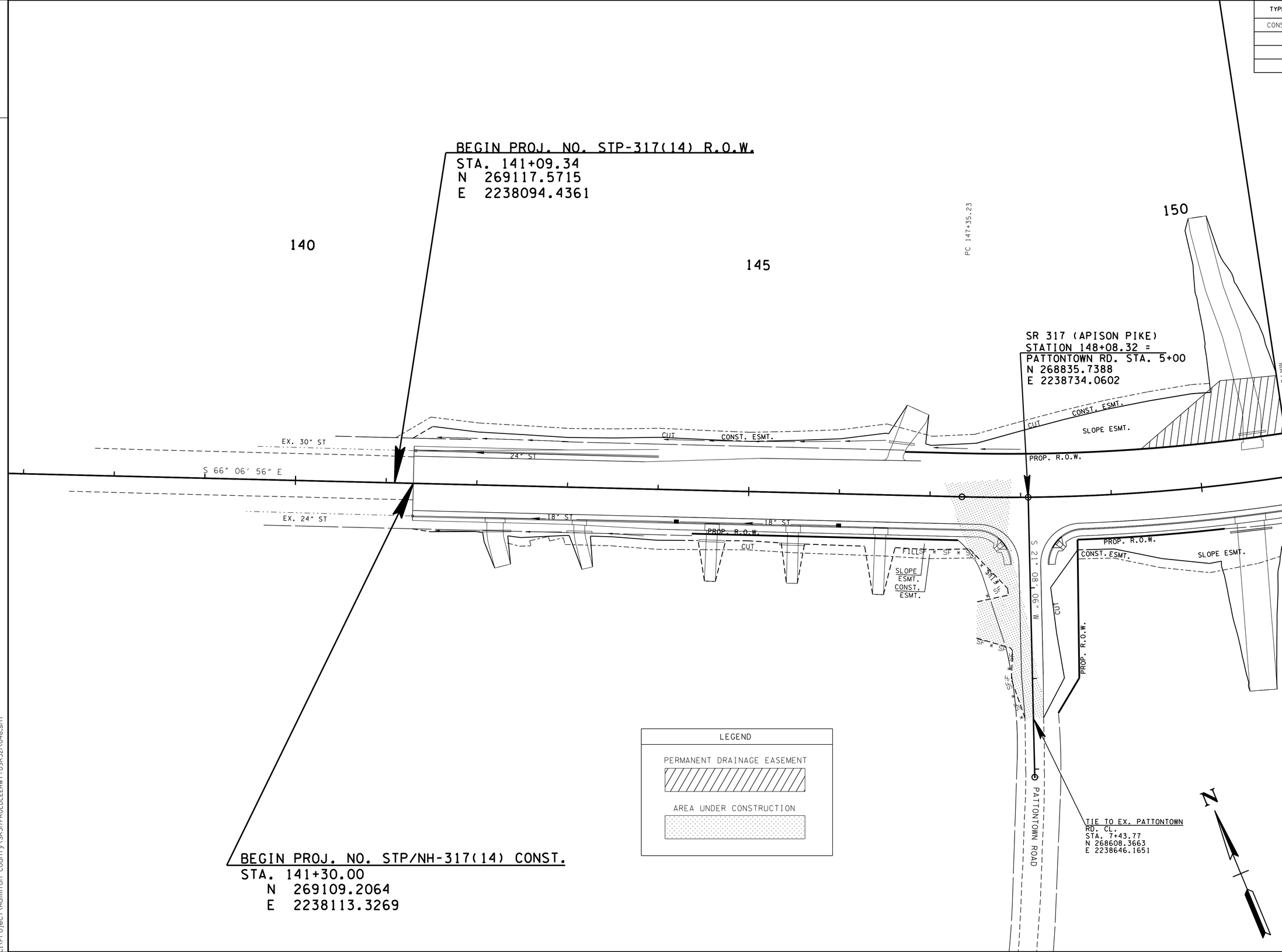


LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48A |
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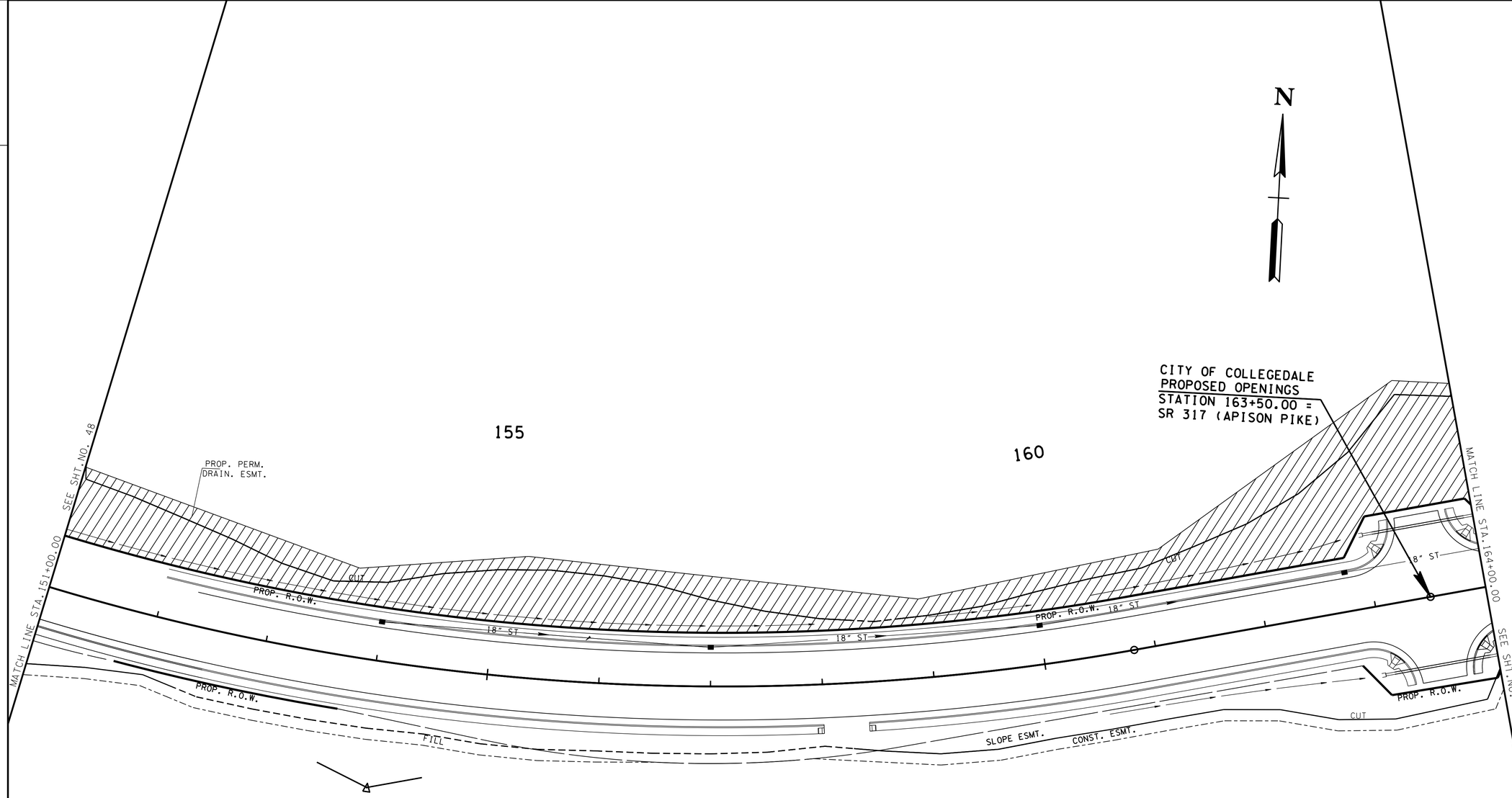


LEGEND

PERMANENT DRAINAGE EASEMENT

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48B |
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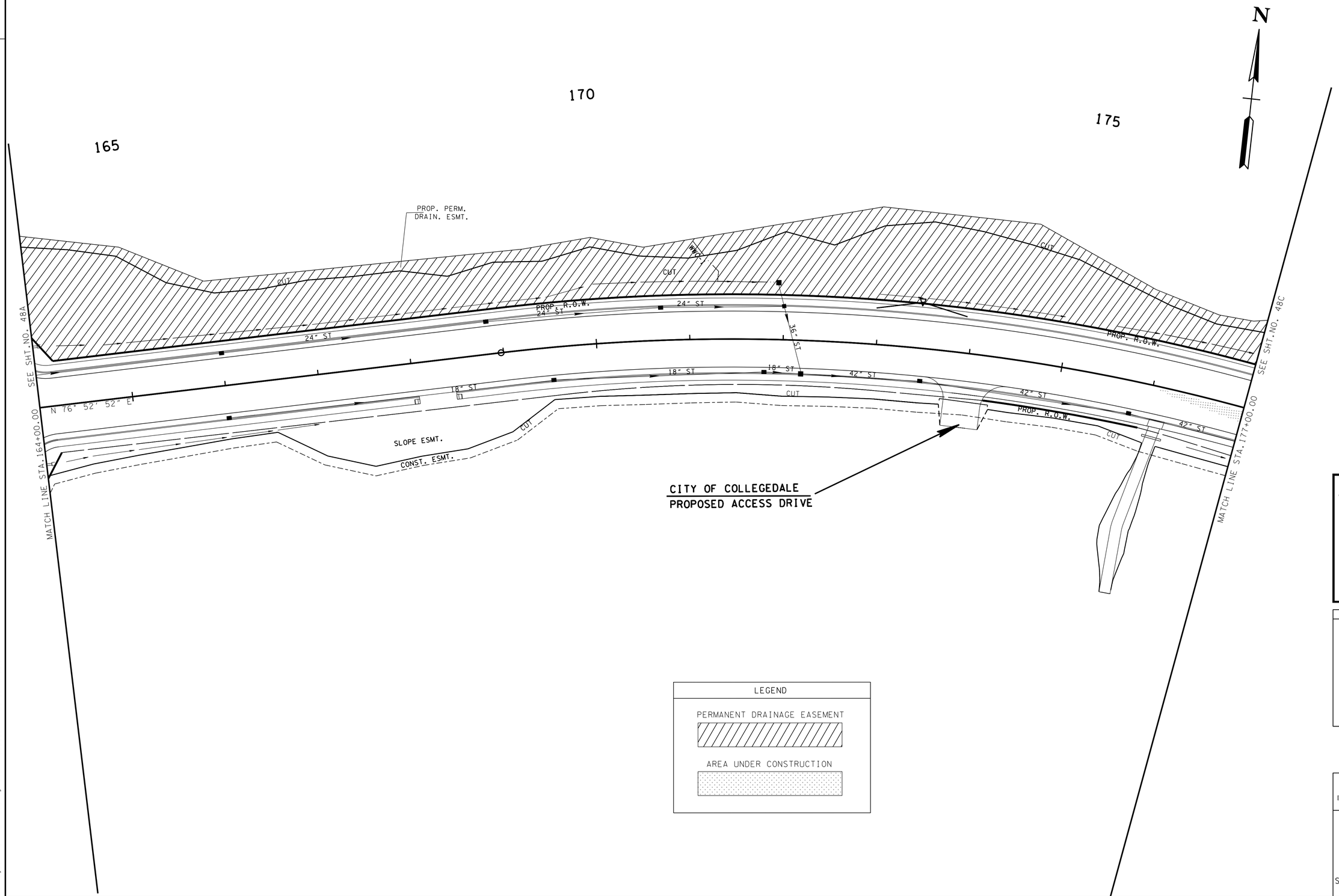


**UNOFFICIAL SET**

**NOT FOR BIDDING**

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48C |
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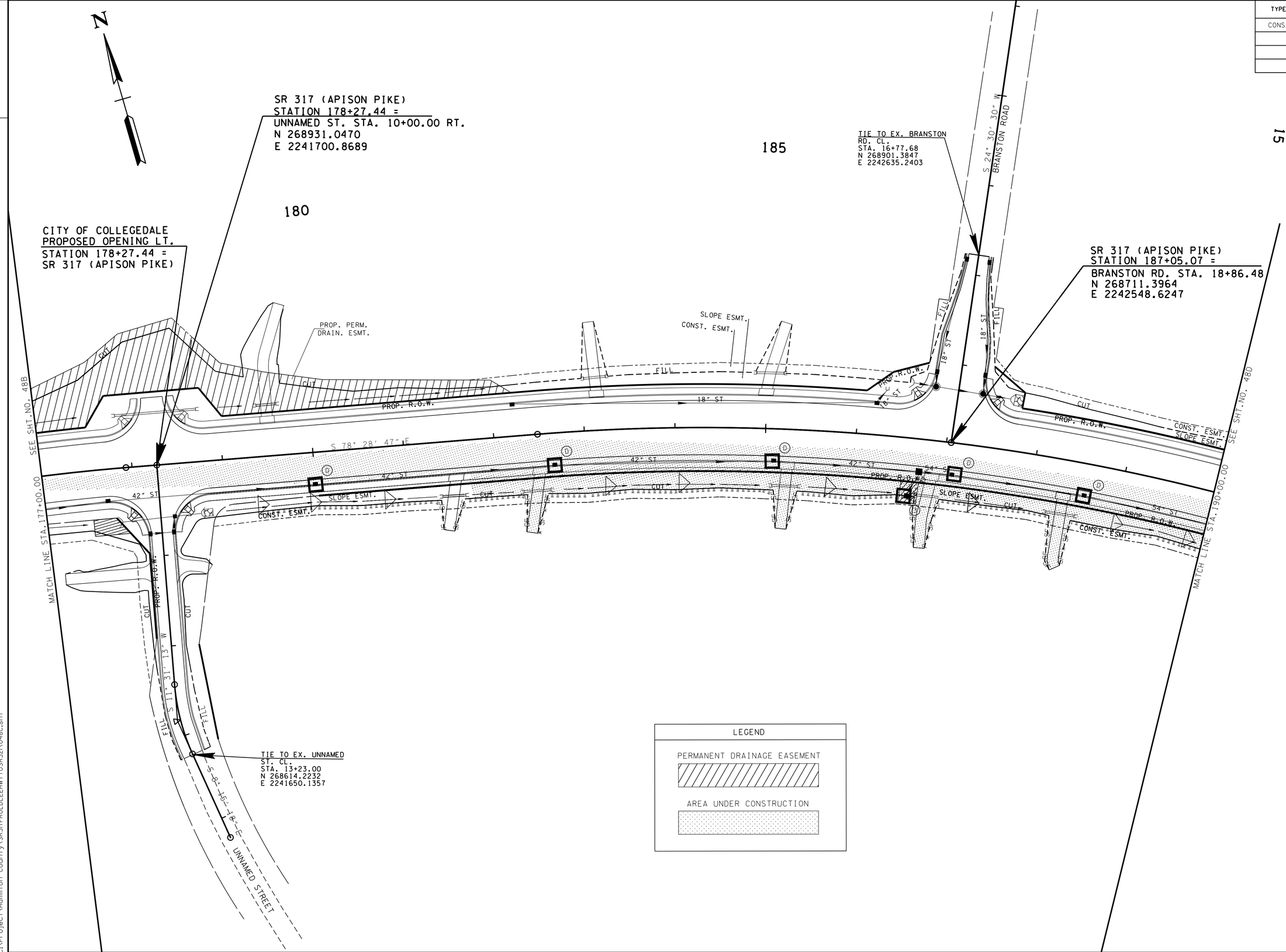


LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

15

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48D |
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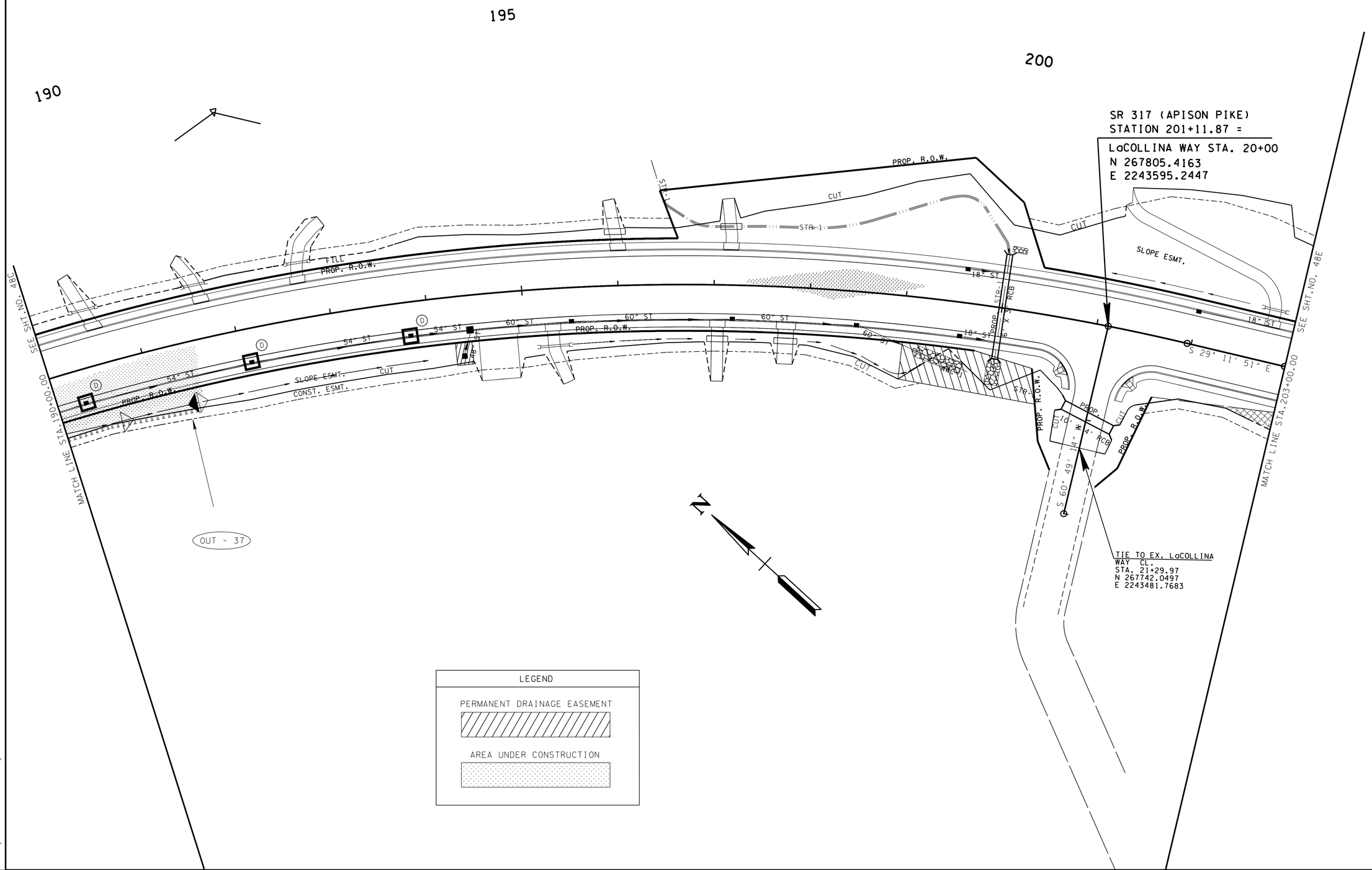
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48E |
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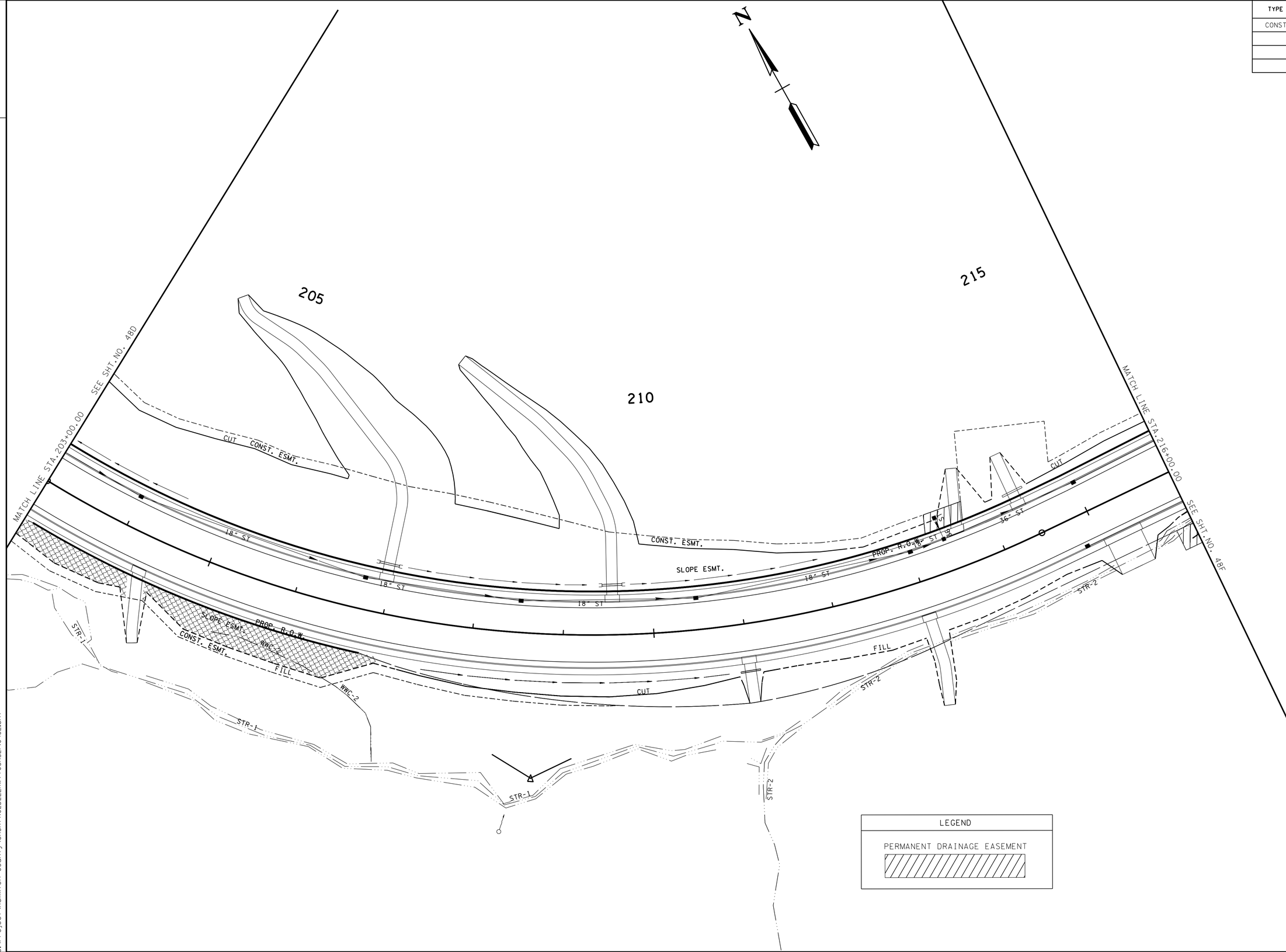


**UNOFFICIAL SET**

**NOT FOR BIDDING**

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106433
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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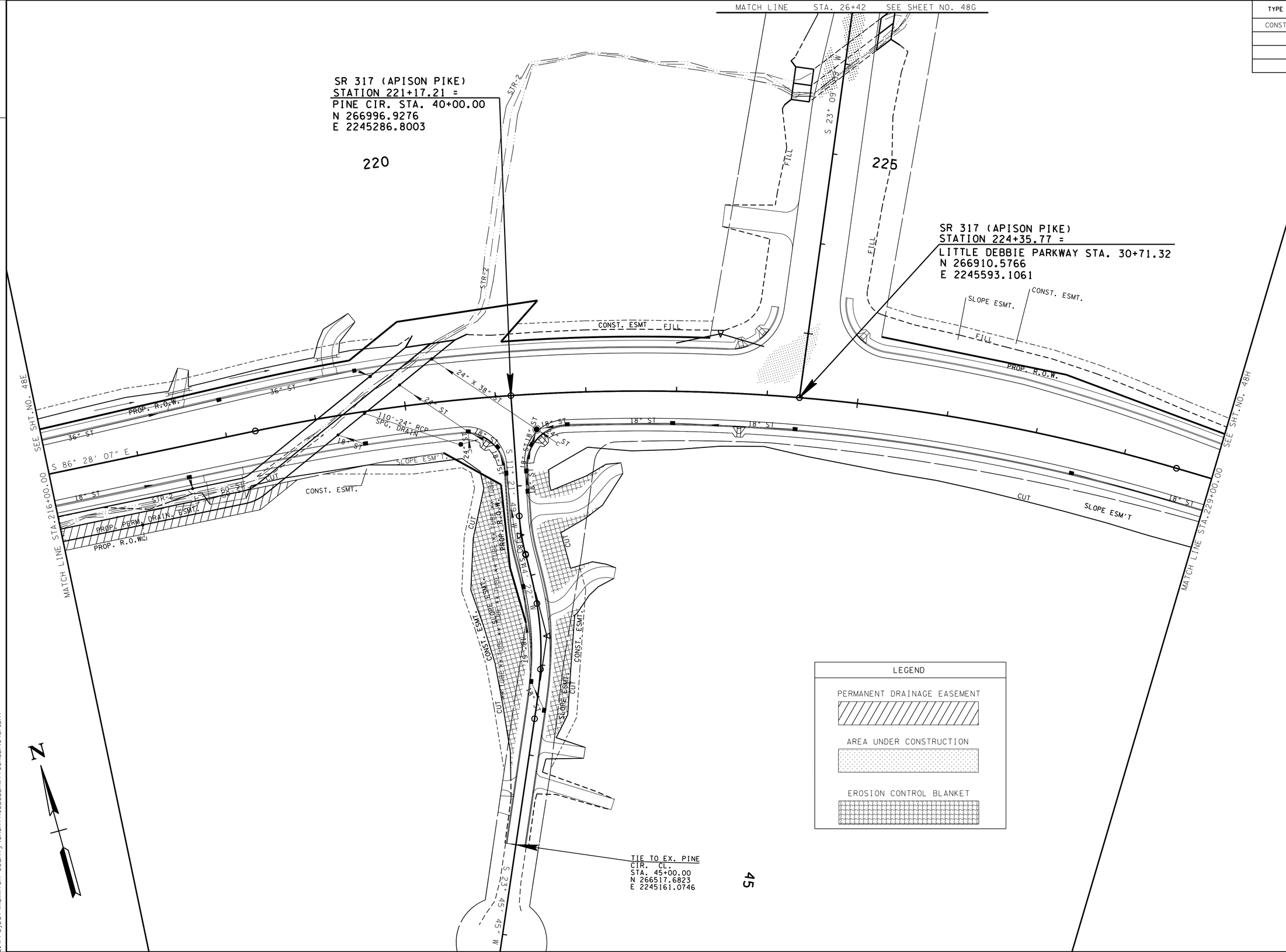
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48F |




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

EROSION CONTROL BLANKET

45

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

28-JUN-2014 08:19
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48H |
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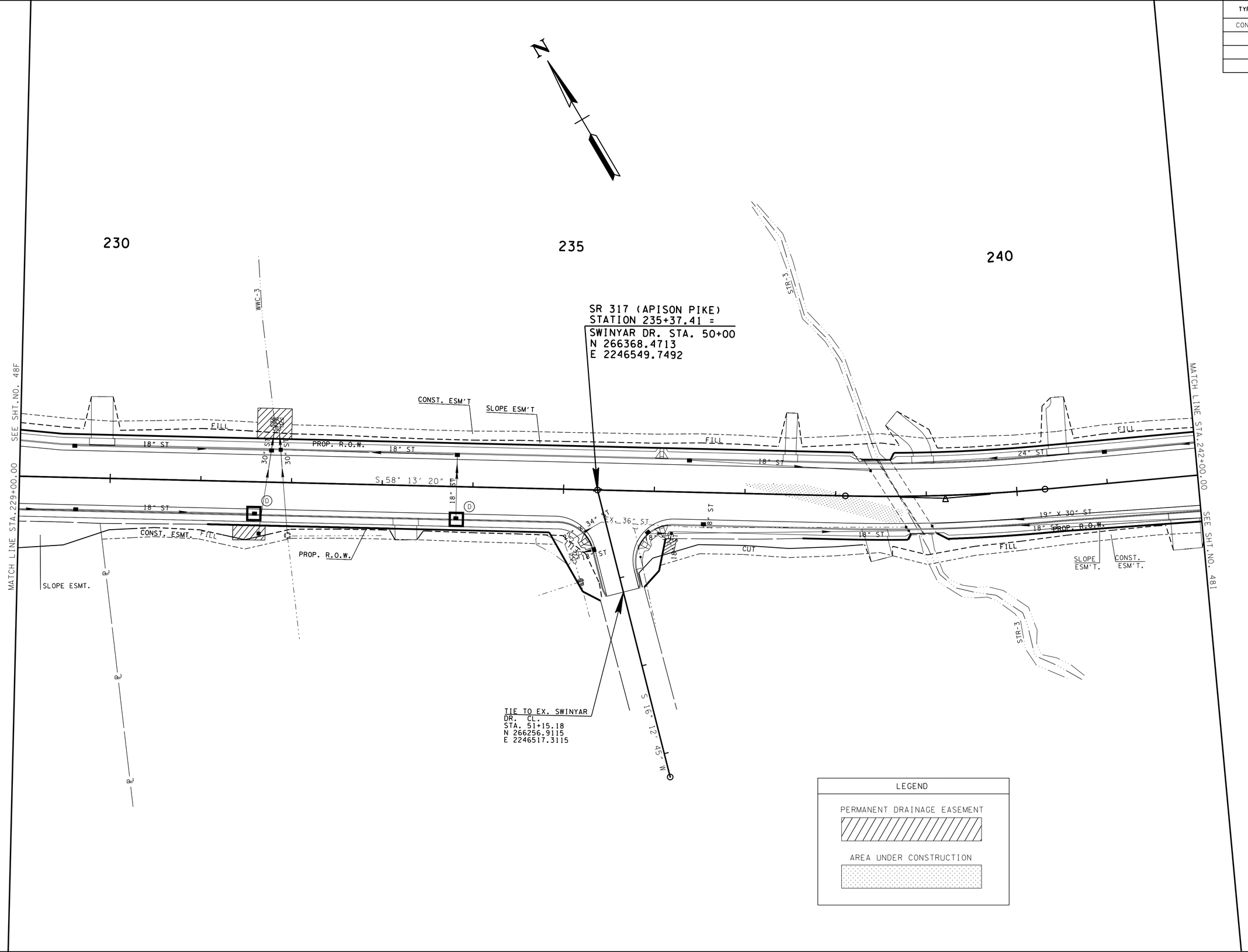
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

20-JUN-2014 14:19
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48I |
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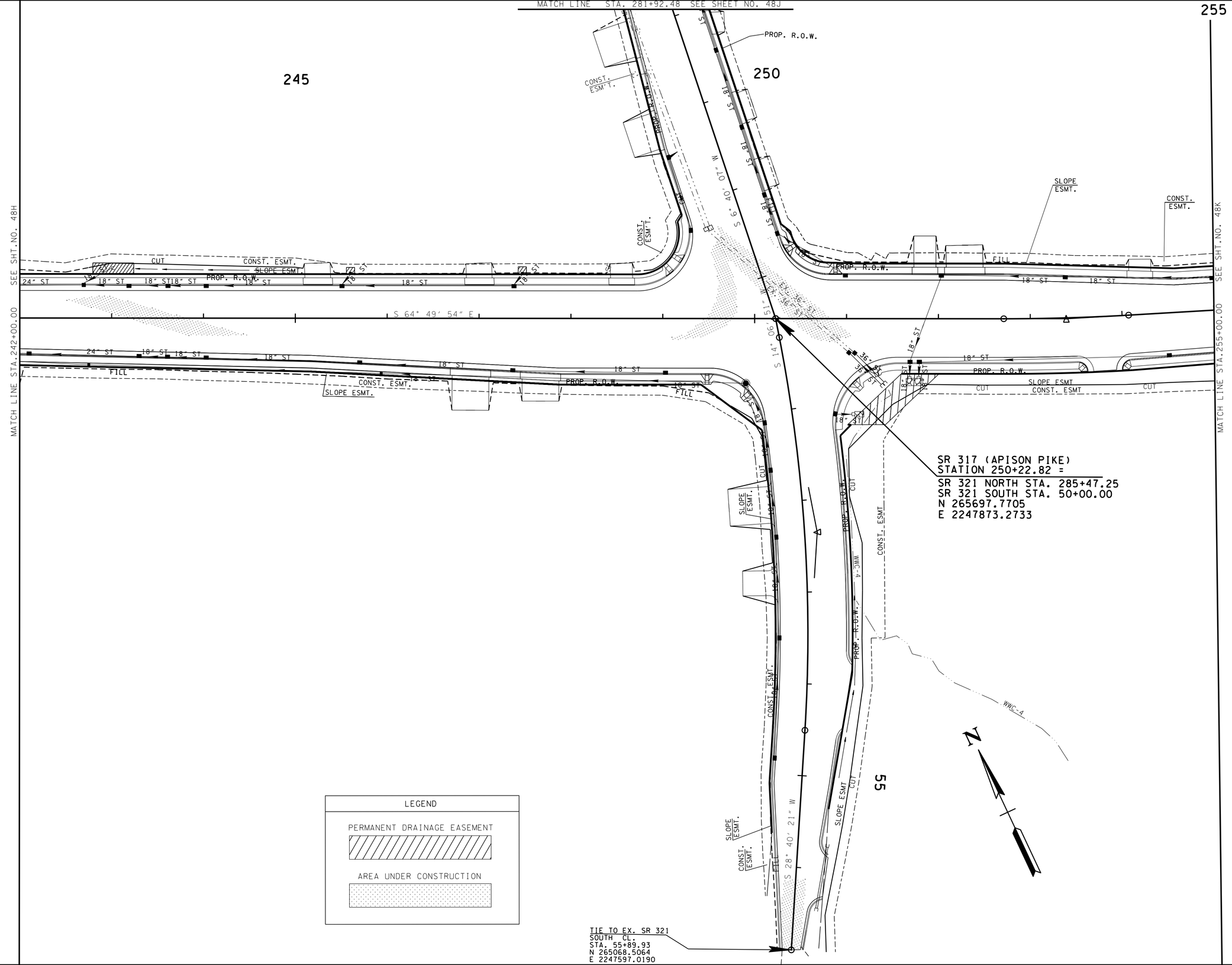


LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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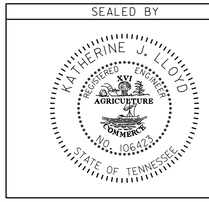


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 215+00 TO STA. 255+00

SCALE: 1"= 50'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48G |
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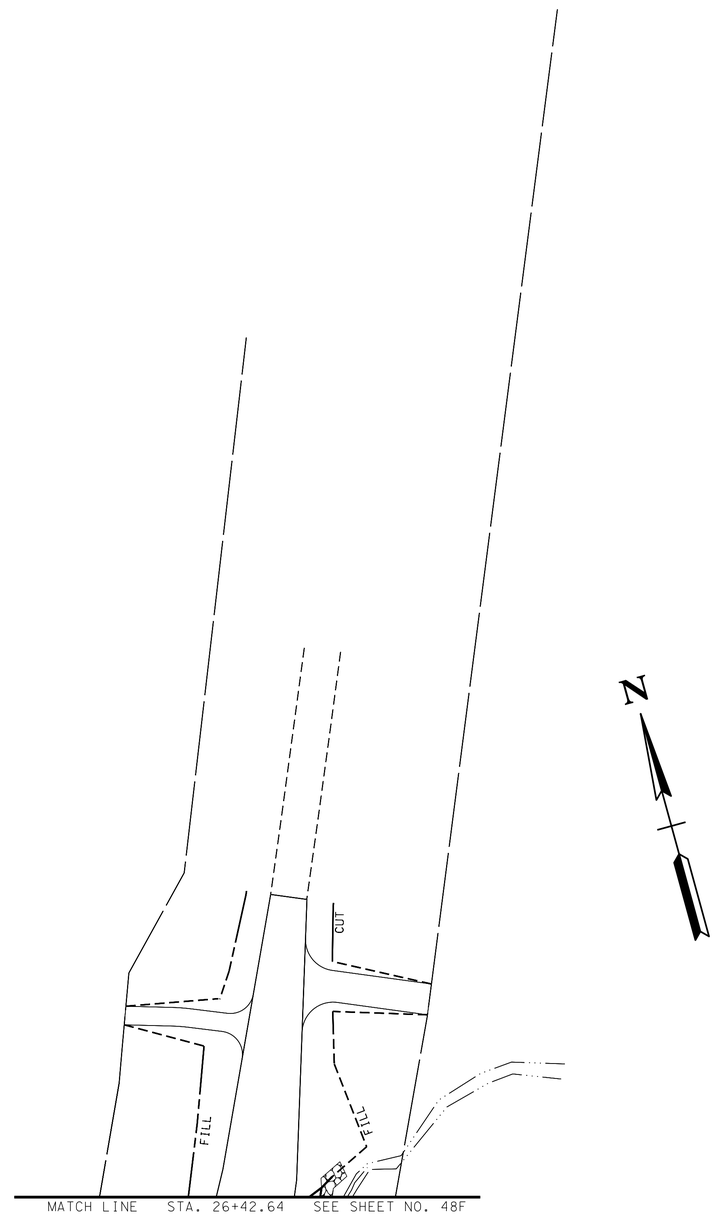
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




N

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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106473
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 26+42 TO STA. 24+47

SCALE: 1"= 50'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48J |
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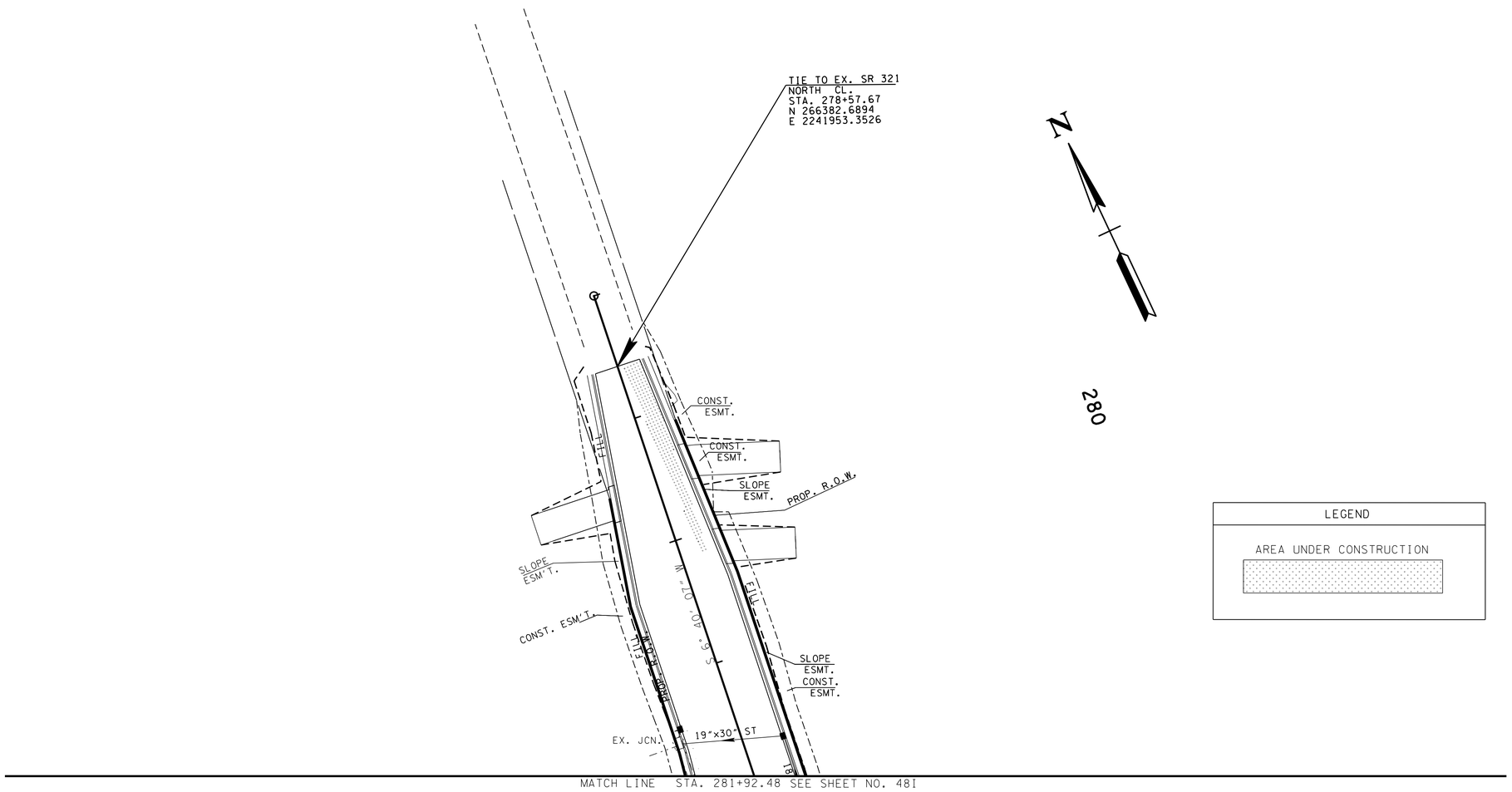
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 48K |
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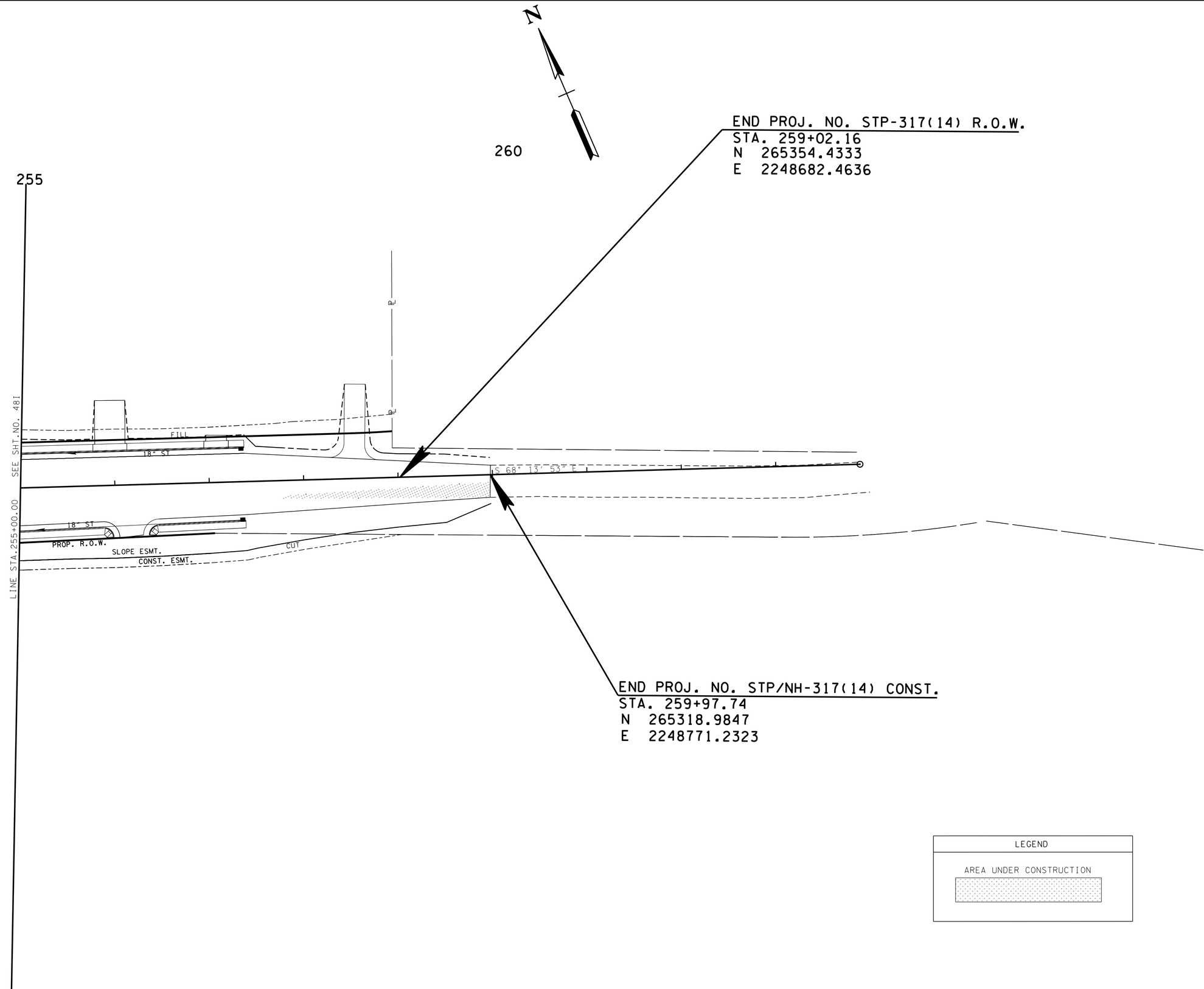
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




LEGEND

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 4

STA. 255+00 TO STA. 263+89

SCALE: 1"= 50'

8-JUN-2014 08:19
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 49 |
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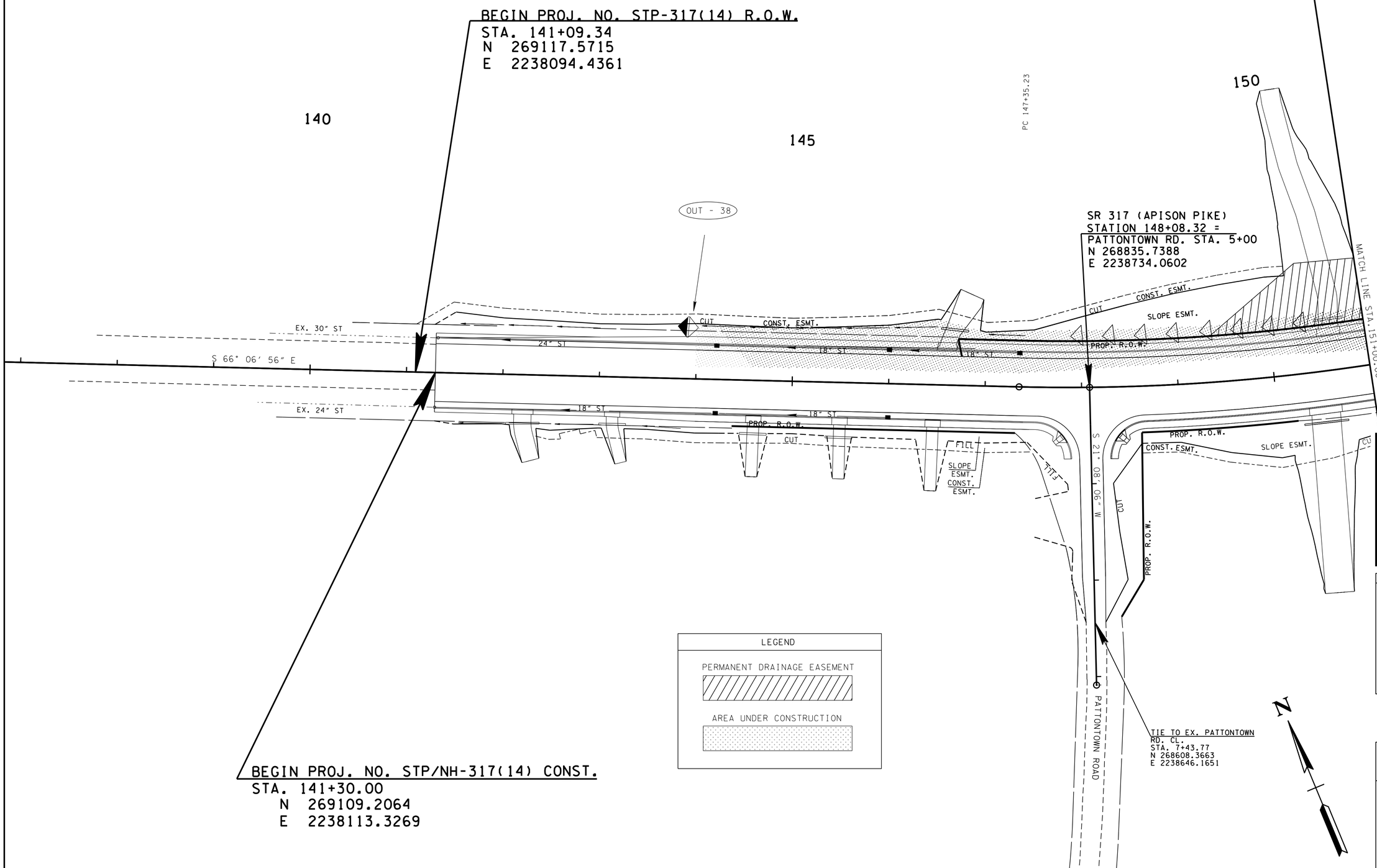


LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 5

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 49A |
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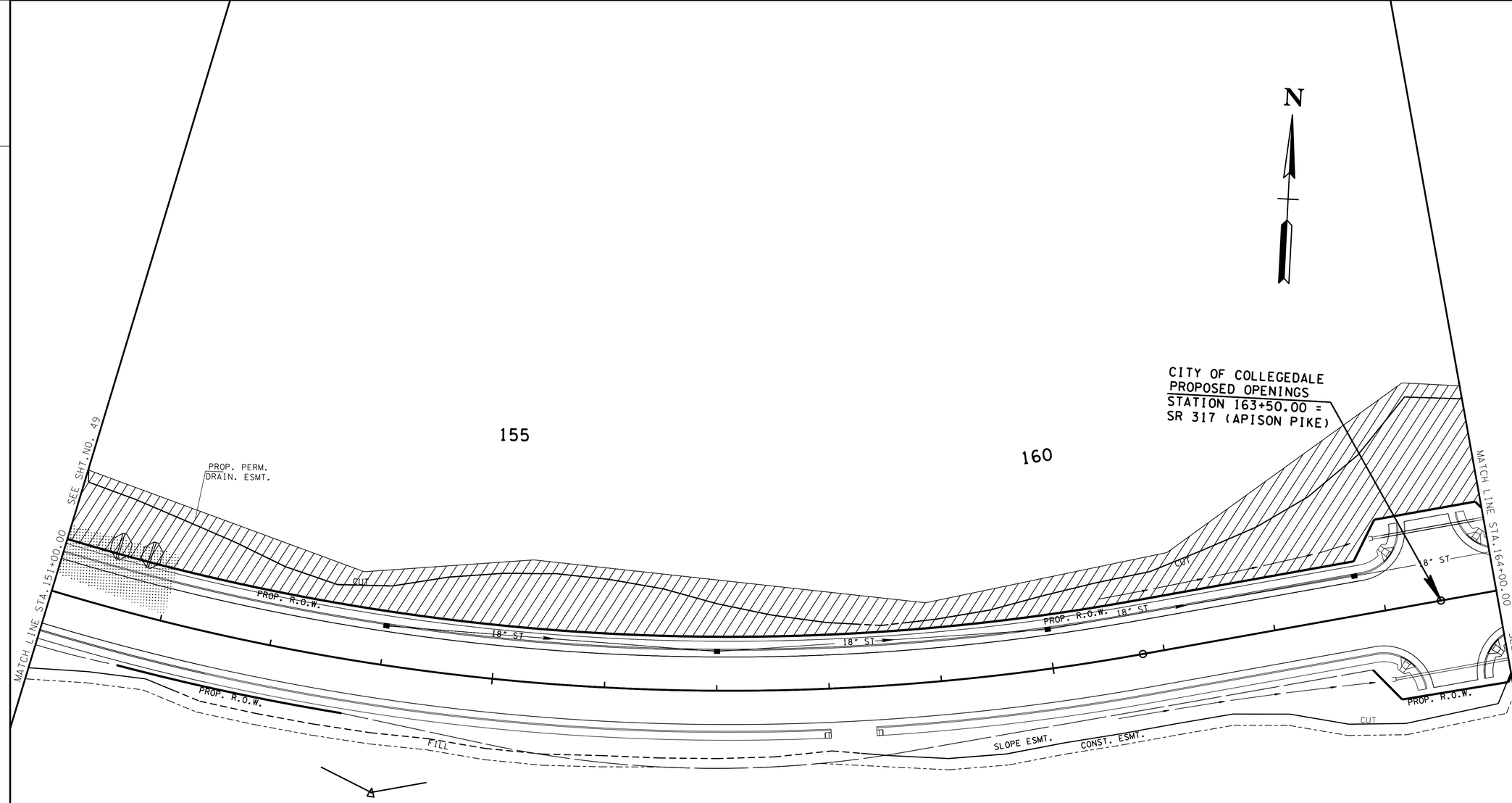


LEGEND

PERMANENT DRAINAGE EASEMENT

AREA UNDER CONSTRUCTION

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION AND SEDIMENT CONTROL PLAN PHASE 5

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

8-JUN-2014 08:19
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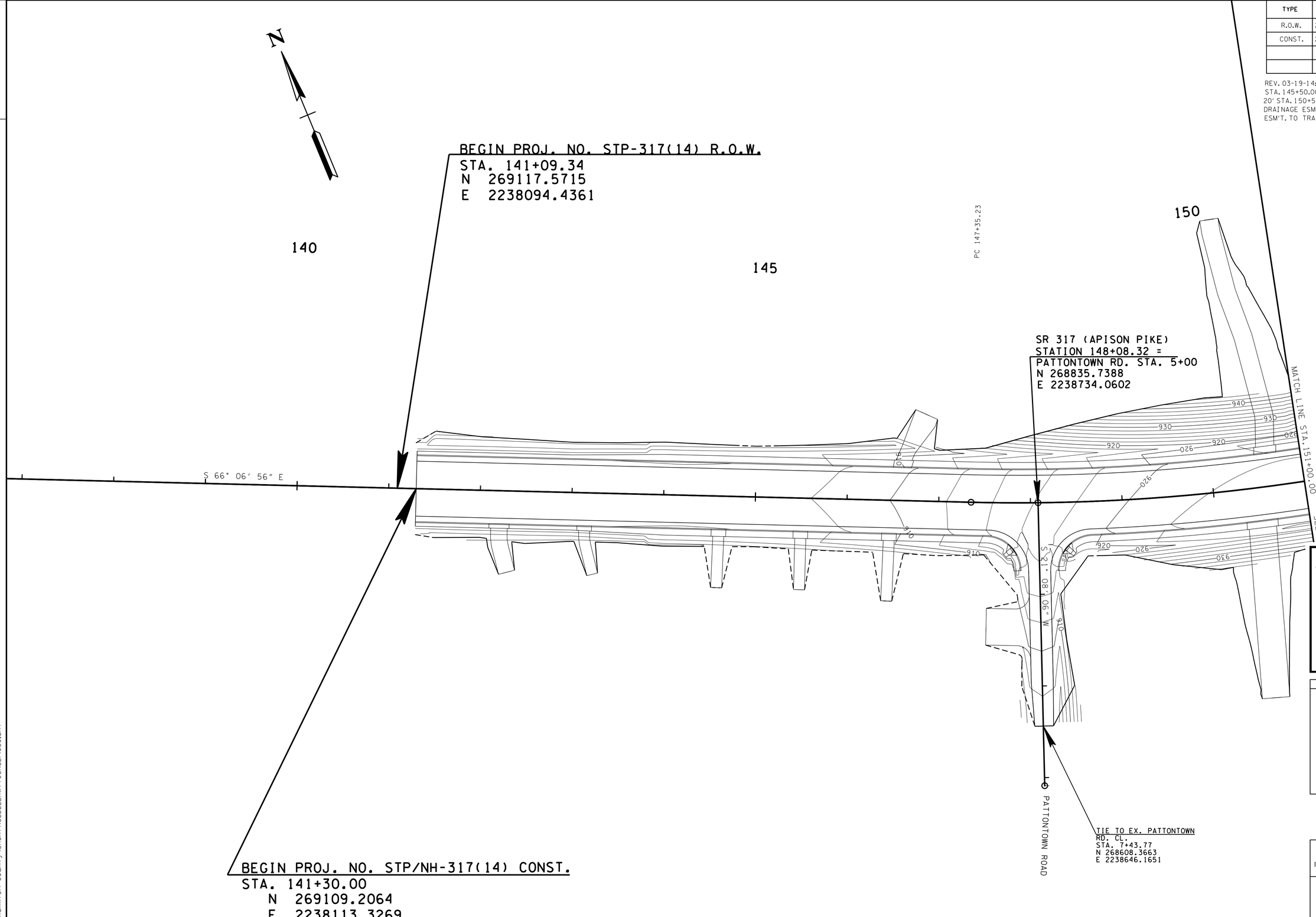
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45 |
| CONST. | 2014 | STP/NH-317(14) | 50 |
| | | | |
| | | | |

REV. 03-19-14: ADDED 12' DRIVEWAY TO TRACT 1 STA. 145+50.00 RT., WIDEN DRIVEWAY FROM 12' TO 20' STA. 150+57.04 LT., ADJUSTED PERMANENT DRAINAGE ESM'T., AND ADDED SLOPE & CONST. ESM'T. TO TRACT 3 PER OWNERS' REQUEST.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 141+30 TO STA. 151+00

SCALE: 1"= 50'

8-JUN-2014 08:20
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45A |
| CONST. | 2014 | STP/NH-317(14) | 50A |
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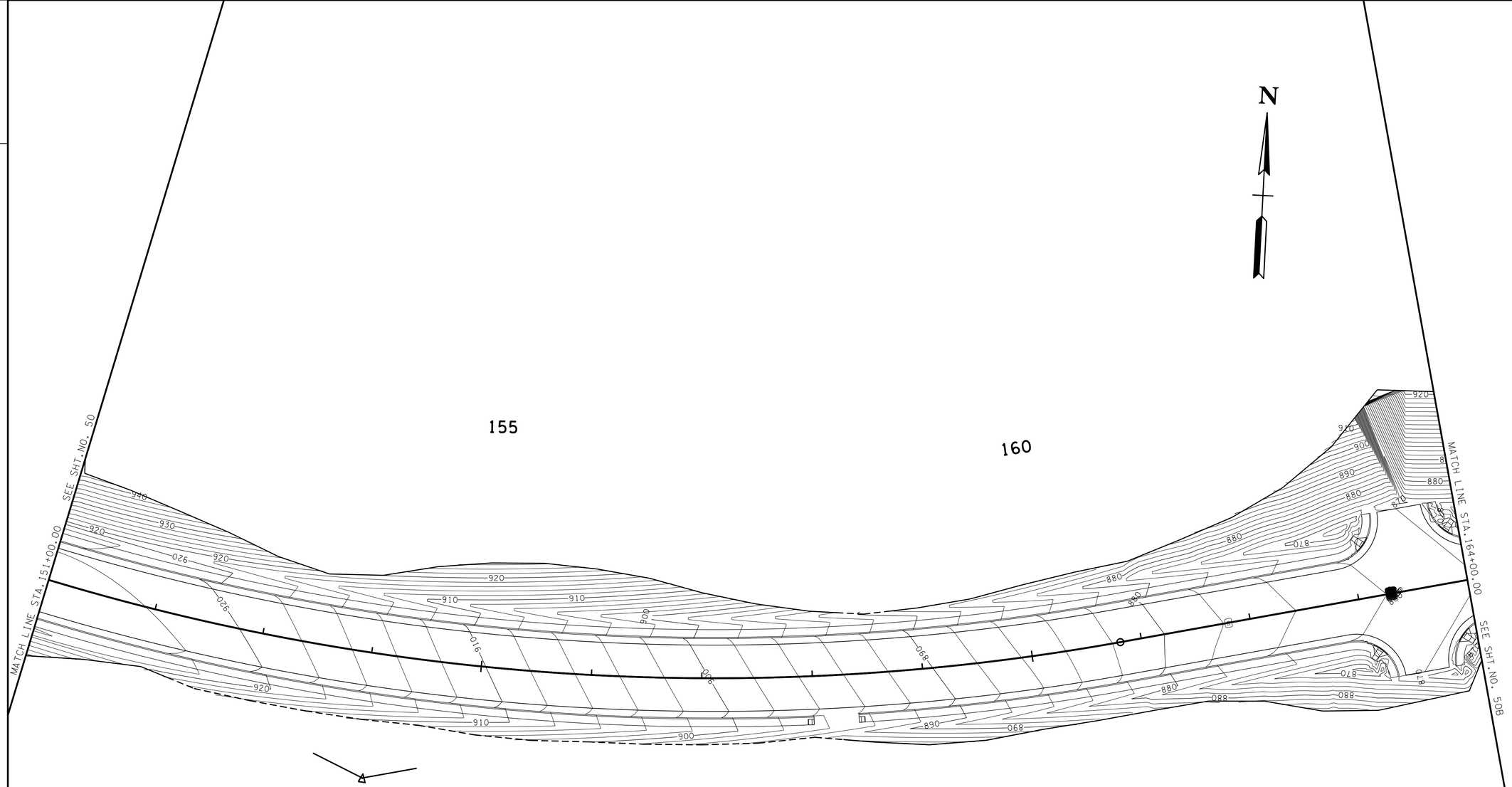
REV. 03-19-14: ADDED 40' CURB CUT TO TRACT 4 STA. 158+20 RT. PER OWNER'S REQUEST.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

8-JUN-2014 08:20
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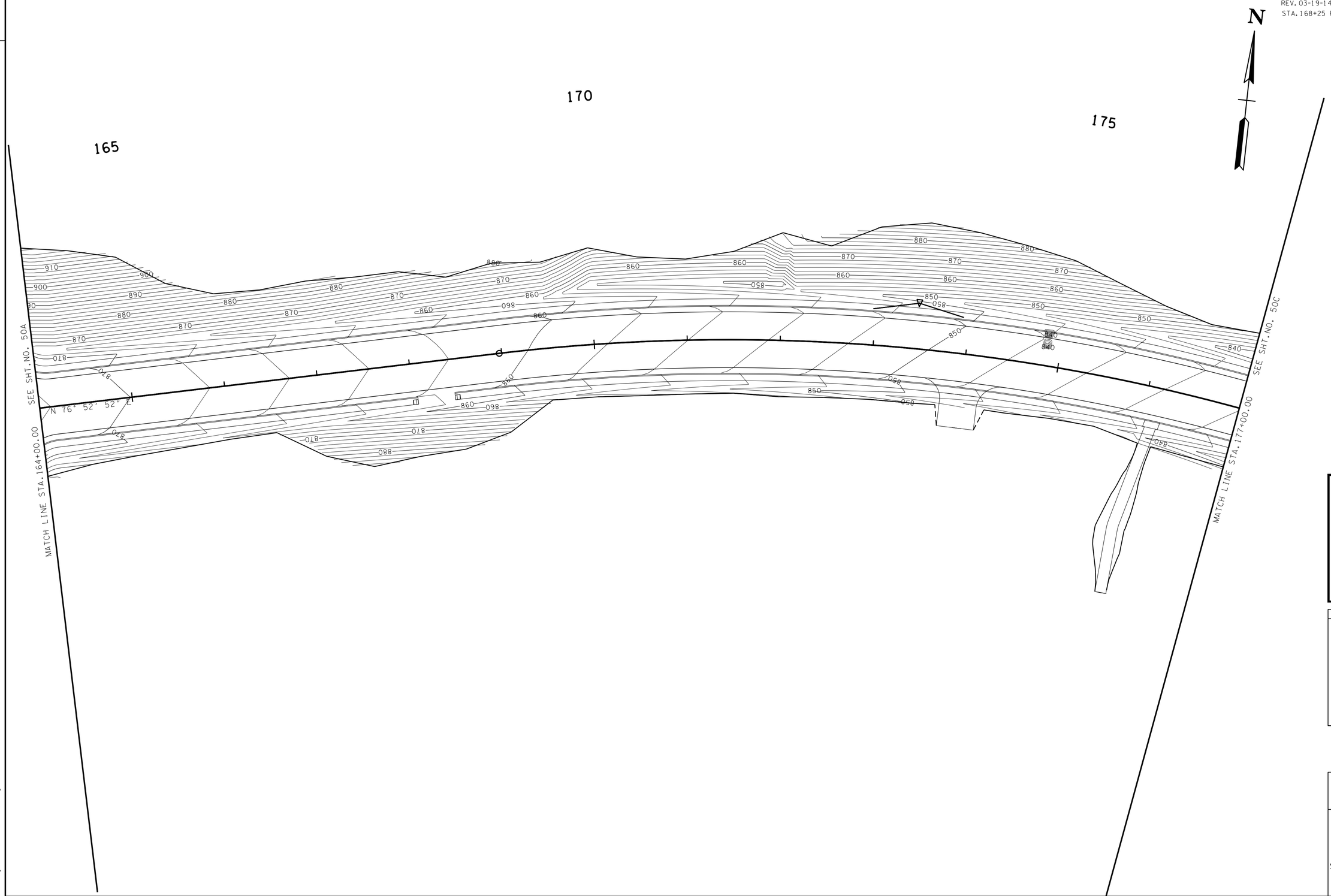
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45B |
| CONST. | 2014 | STP/NH-317(14) | 50B |
| | | | |
| | | | |

REV. 03-19-14: ADDED 40' CURB CUT TO TRACT 4 STA. 168+25 RT. PER OWNER'S REQUEST.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 164+00 TO STA. 177+00

SCALE: 1"= 50'

8-JUN-2014 08:20
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
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| CONST. | 2014 | STP/NH-317(14) | 50C |
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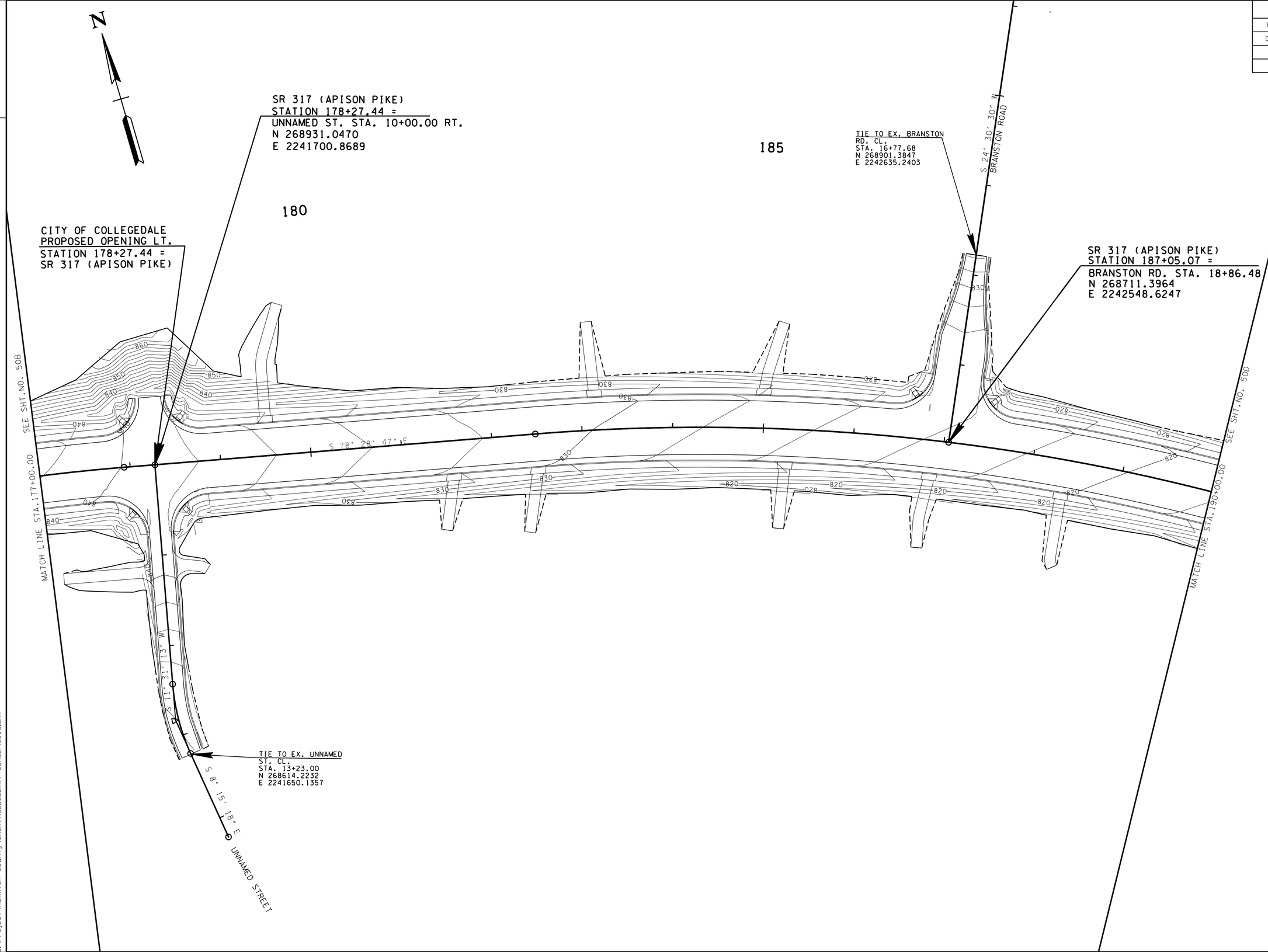


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 177+00 TO STA. 190+00

SCALE: 1"= 50'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45D |
| CONST. | 2014 | STP/NH-317(14) | 50D |
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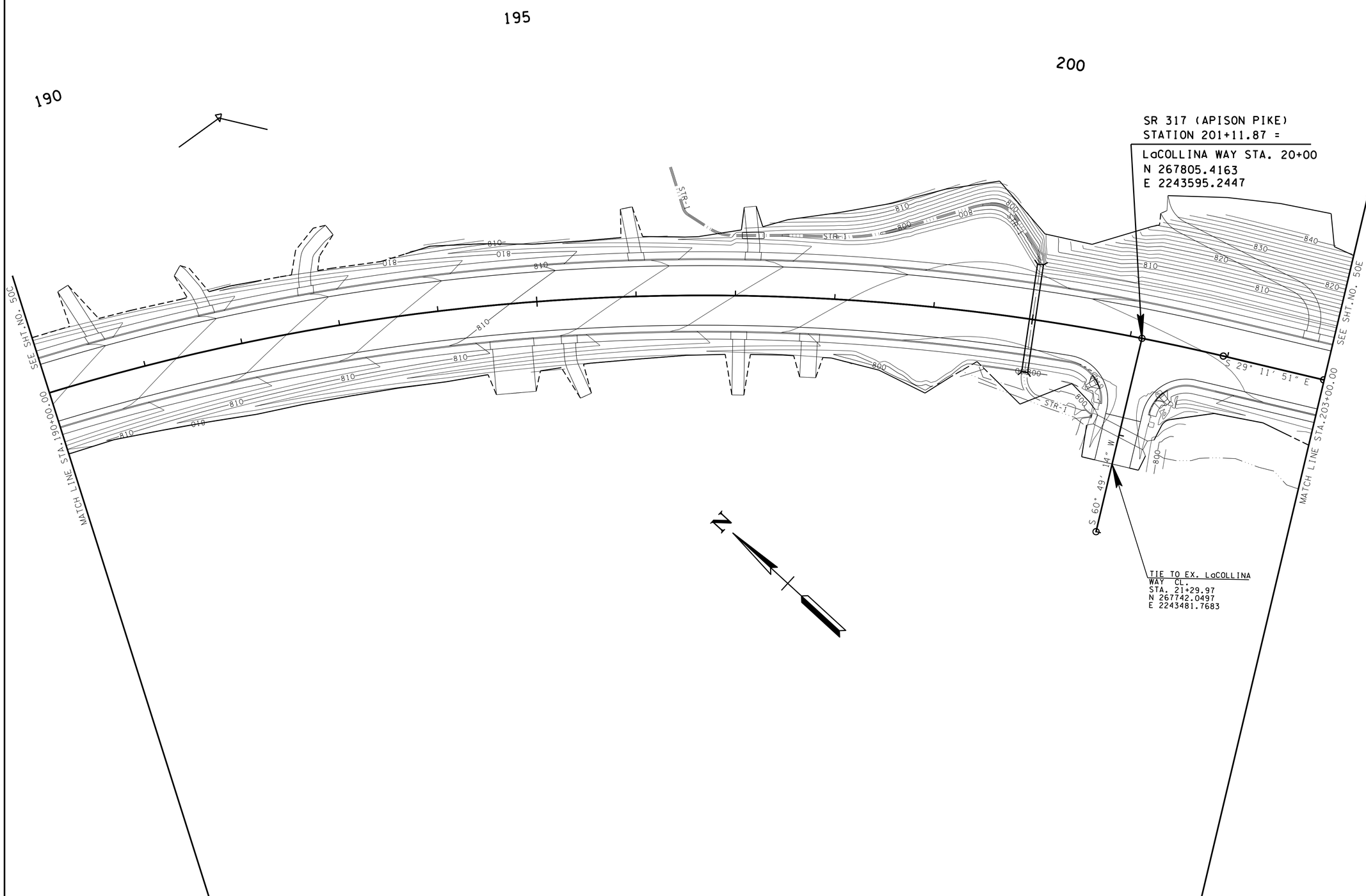
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

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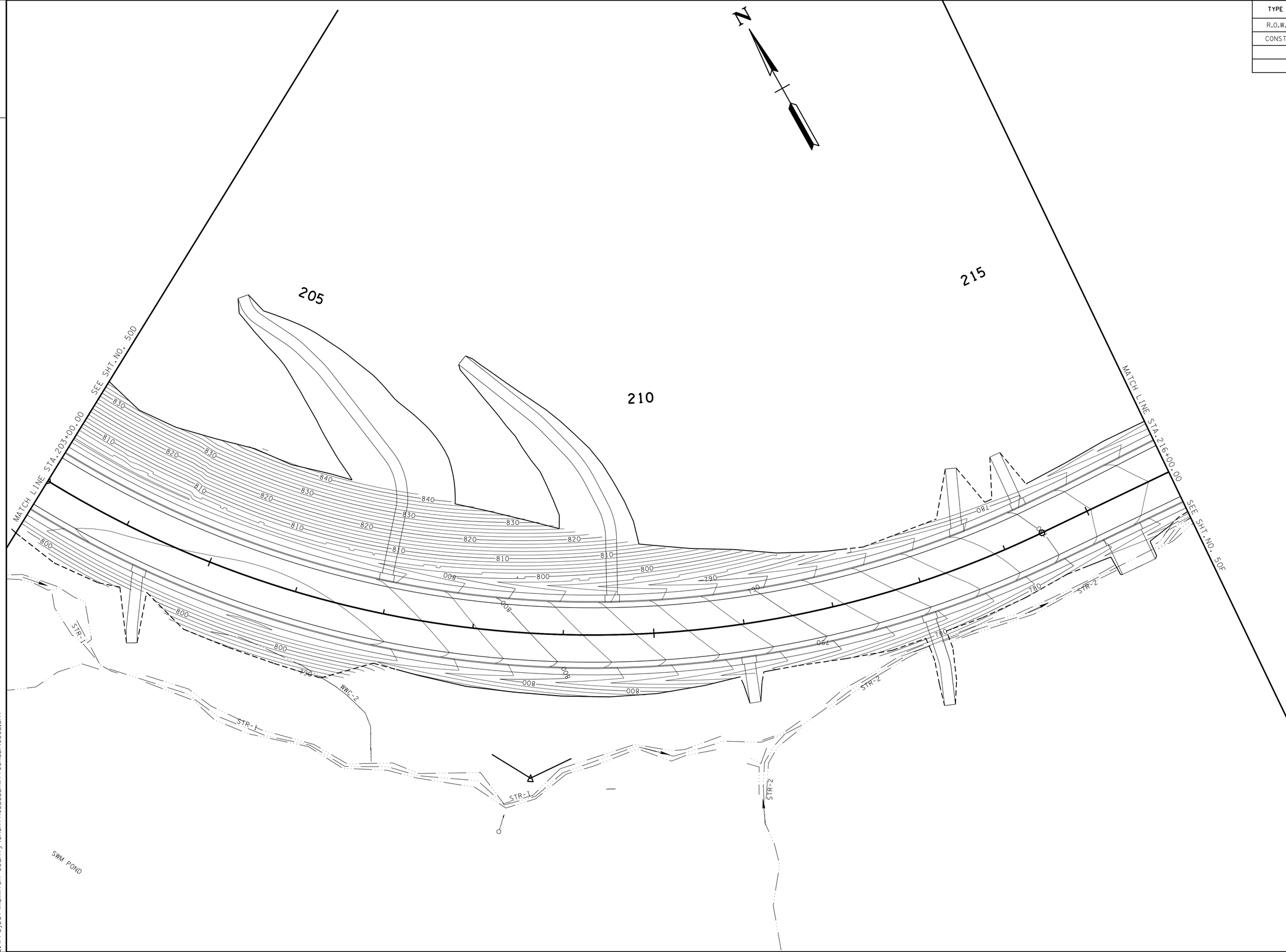
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45E |
| CONST. | 2014 | STP/NH-317(14) | 50E |
| | | | |
| | | | |

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106433
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 203+00 TO STA. 216+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45F |
| CONST. | 2014 | STP/NH-317(14) | 50F |
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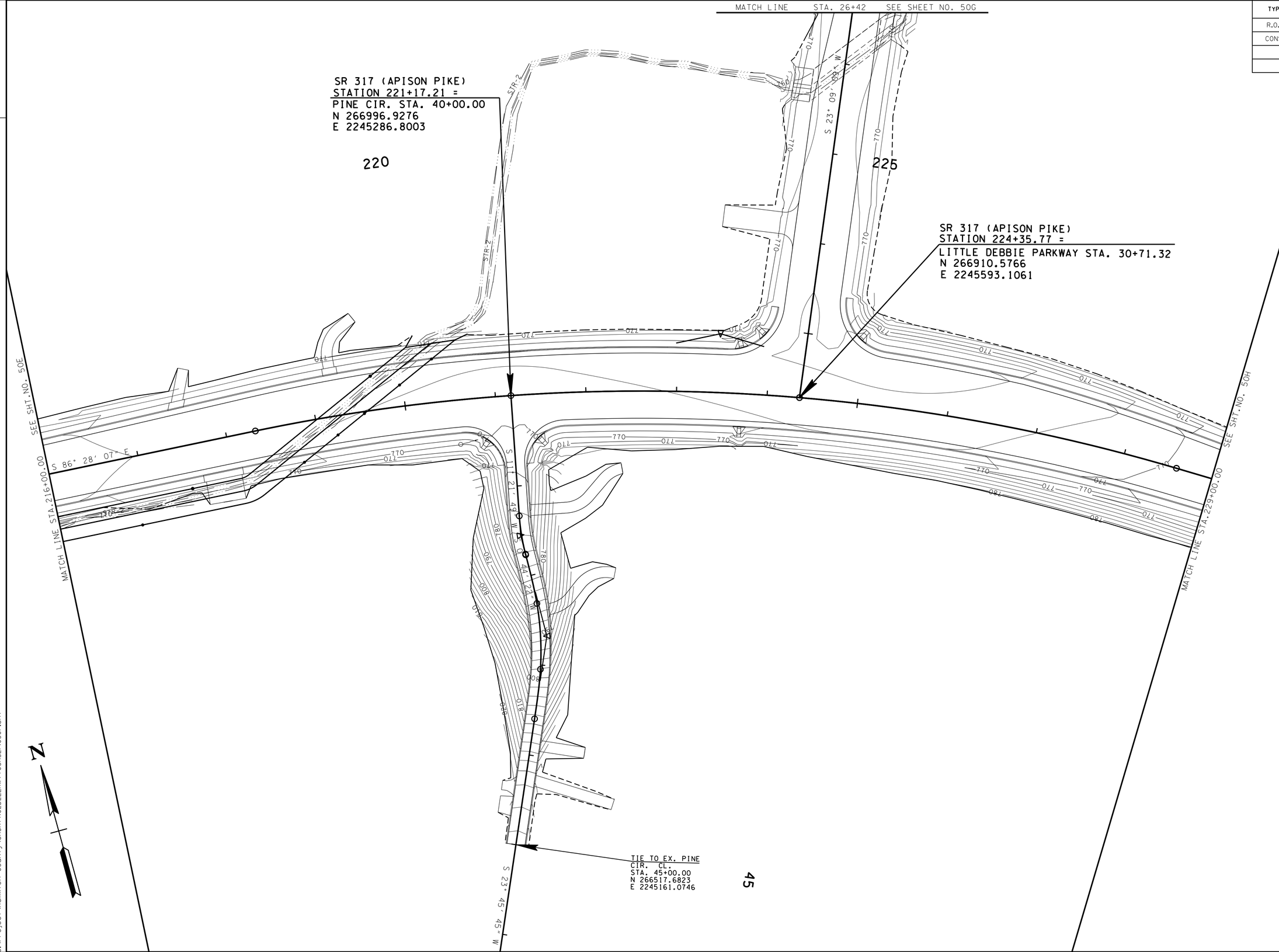


**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 216+00 TO STA. 229+00

SCALE: 1"= 50'

8-JUN-2014 08:20
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45G |
| CONST. | 2014 | STP/NH-317(14) | 50G |
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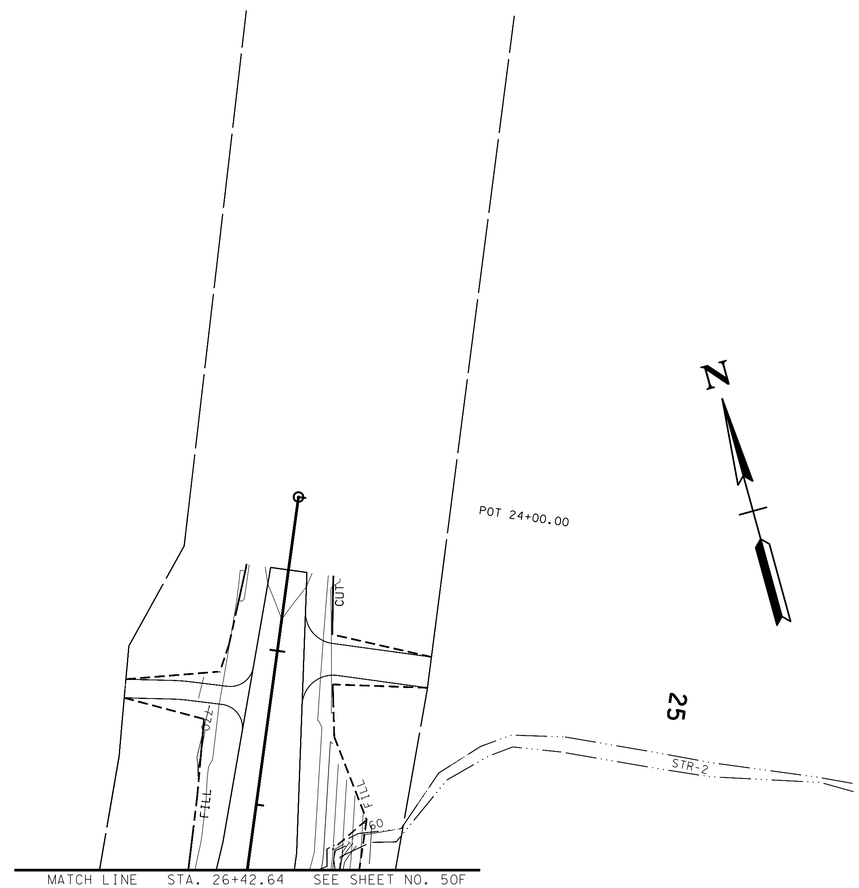
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




**UNOFFICIAL SET**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 26+42 TO STA. 24+47

SCALE: 1"= 50'

8-JUN-2014 08:20
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45H |
| CONST. | 2014 | STP/NH-317(14) | 50H |
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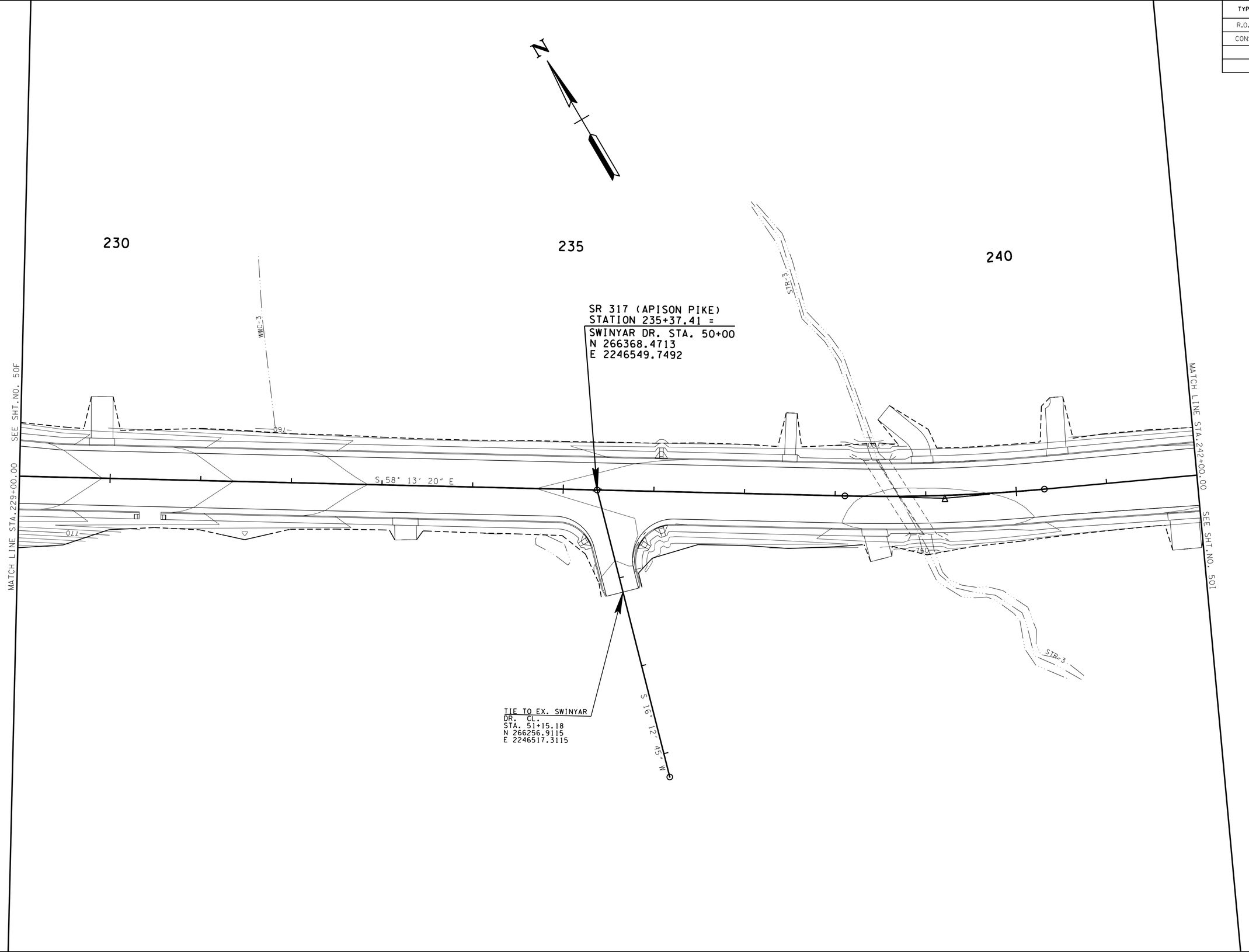


**UNOFFICIAL SET**

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KATHERINE J. LLOYD
REGISTERED ENGINEER
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COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 229+00 TO STA. 242+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45I |
| CONST. | 2014 | STP/NH-317(14) | 50I |
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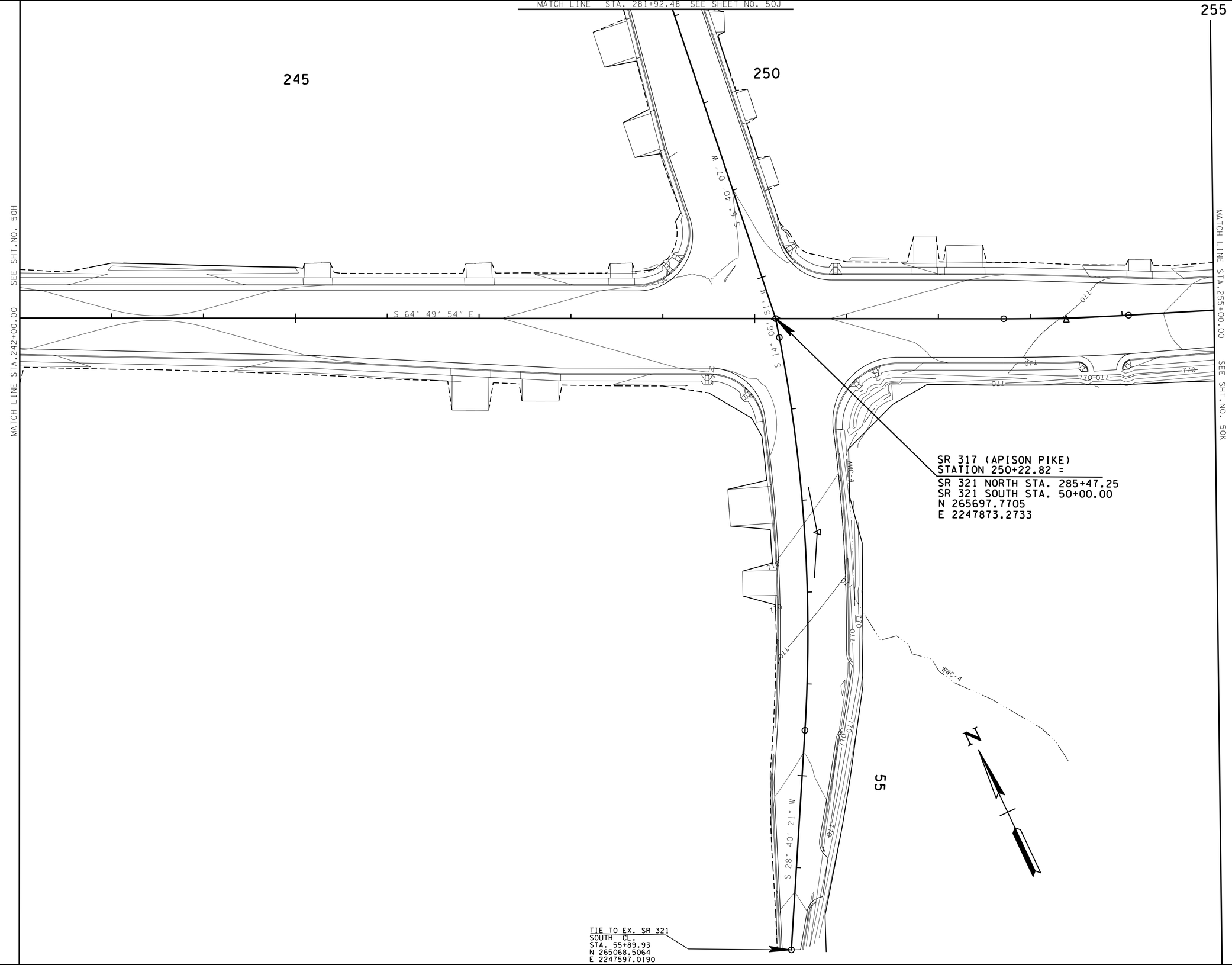


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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 242+00 TO STA. 255+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45J |
| CONST. | 2014 | STP/NH-317(14) | 50J |
| | | | |
| | | | |

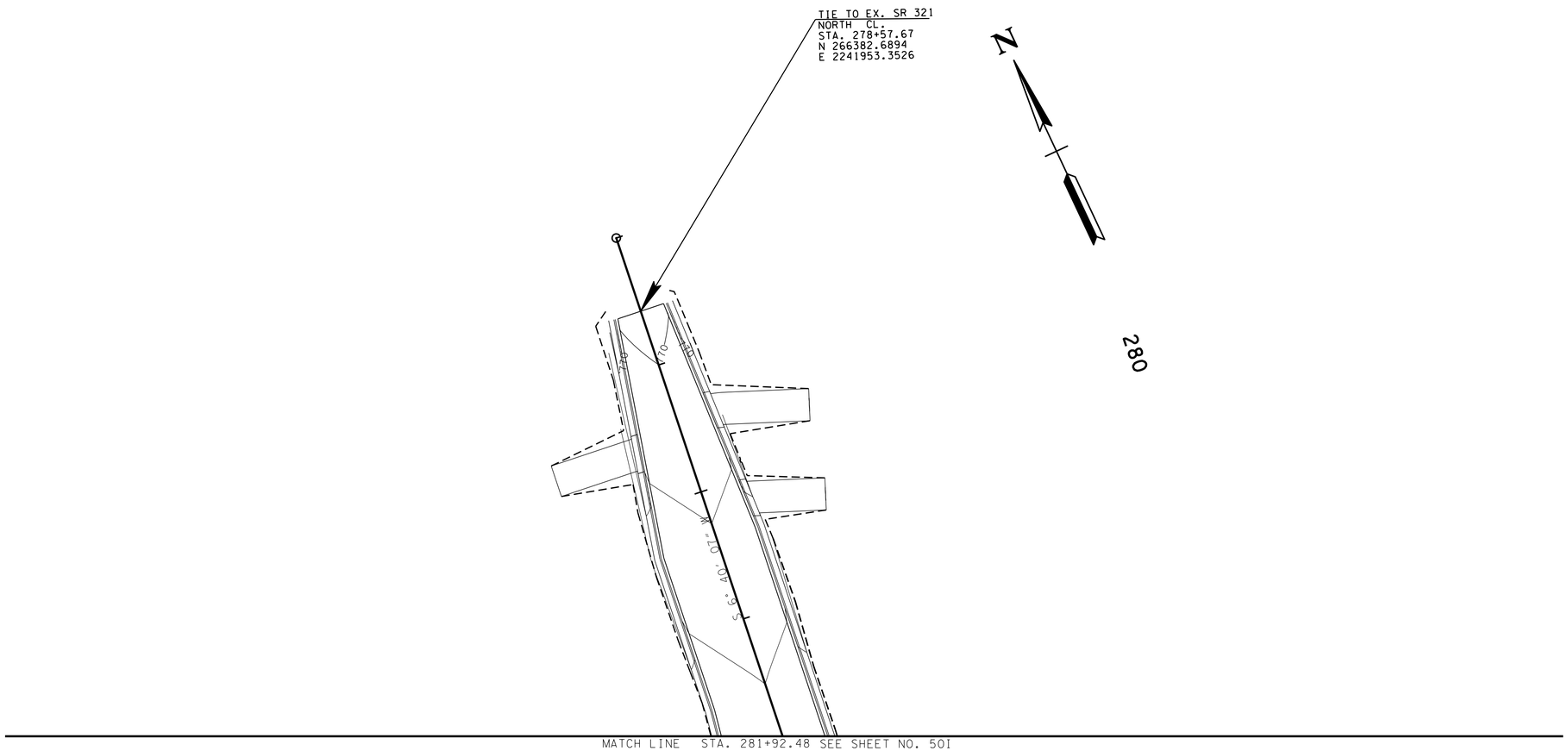
REV-10-22-12: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESMT. TO TRACT 70.

REV-10-30-12: SHOW PRESENT PARKING LOTS ON TRACT 70.

REV. 11-28-12: ADJUSTED R.O.W., SLOPE & CONST. ESM'T LINES RIGHT OF S.R. 321 N. DUE TO ADDING AN ADDITIONAL THRU LANE.

REV. 06-14-13: ADJUSTED SLOPE & CONST. ESM'T ON TRACT 70.

REV. 03-19-14: ADJUSTED PROP. R.O.W., SLOPE & CONST. ESM'T. TO TRACT 102 FOR GUARDRAIL TERMINAL TYPE 21.




MATCH LINE STA. 281+92.48 SEE SHEET NO. 50I

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 281+92 TO STA. 278+57

SCALE: 1"= 50'

8-JUN-2014 08:20
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 45K |
| CONST. | 2014 | STP/NH-317(14) | 50K |
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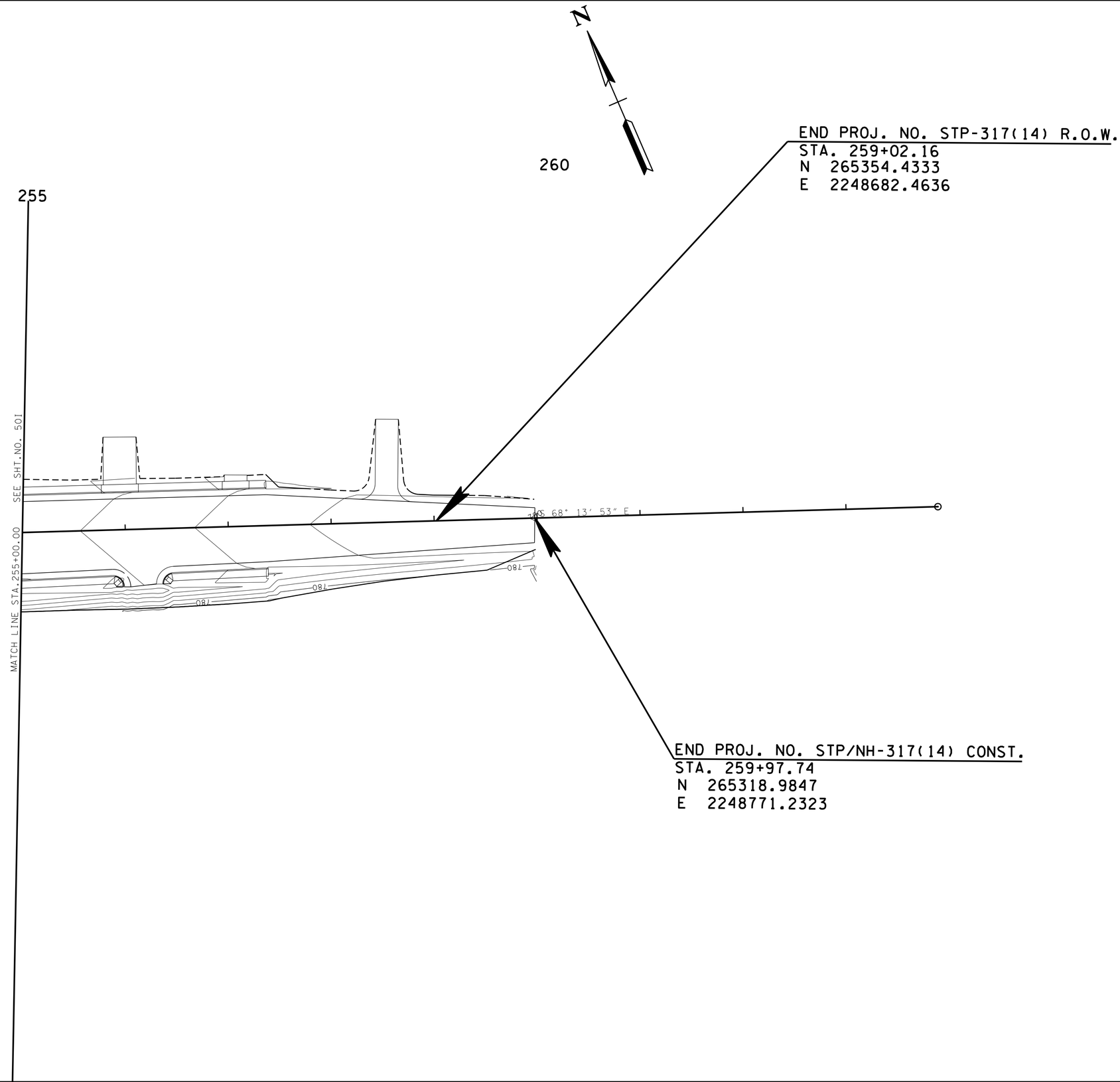
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED CONTOURS

STA. 254+ TO STA. 263+89

SCALE: 1"= 50'

8-JUN-2014 08:20
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 51 |
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# PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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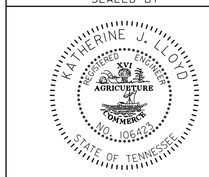


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

8-JUN-2014 08:20
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 51A |
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## ITEMIZED TRAFFIC CONTROL DEVICES

| ITEM NO. | DESCRIPTION | PHASE1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 4A | PHASE 5 | TOTAL NO. REQ'D | UNIT |
|---|---|---|---|---|---|---|---|---|---|
| 705-08.51 | PORTABLE IMPACT ATTENUATOR | 11 | 11 | | | | | 11 | EACH |
| 712-02.02 | INTERCONNECTED PORTABLE BARRIER RAIL | 7,747 | 7,759 | | | | | 7,759 | L.F. |
| 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | 230 | 460 | 560 | 416 | 88 | 402 | 560 | EACH |
| 712-04.50 | PORTABLE BARRIER RAIL DELINEATOR | 90 | 107 | | | | | 197 | EACH |
| 712-05.01 | WARNING LIGHTS (TYPE "A") | | 30 | 36 | 16 | 8 | | 36 | EACH |
| 712-05.03 | WARNING LIGHTS (TYPE "C") | | 63 | 87 | 48 | 30 | | 87 | EACH |
| 712-06 | SIGNS (CONSTRUCTION) | | | | | | | 1,267 | S.F. |
| 712-07.03 | TEMPORARY BARRICADE (TYPE III) | | 436 | 662 | 340 | 289 | | 662 | L.F. |
| 712-08.03 | ARROW BOARD (TYPE C) | | | | | | 2 | 2 | EACH |
| 716-01.05 | TEMPORARY RAISED PAVEMENT MARKER | | 136 | 157 | 154 | 15 | | 293 | EACH |
| 716-05.01 | PAINTED PAVEMENT MARKING (4" LINE) | | 8.90 | 10.79 | 11.52 | 1.03 | | 32.21 | L.M. |
| 716-05.02 | PAINTED PAVEMENT MARKING (8" BARRIER LINE) | | 8,244 | | | | | 8,244 | L.F. |
| 716-05.04 | PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING | | | 15 | 38 | | | 53 | S.Y |
| 716-05.05 | PAINTED PAVEMENT MARKING (STOP LINE) | | 513 | 314 | 756 | 50 | | 1,633 | L.F. |

## CONSTRUCTION SIGNS

| DESCRIPTION | PHASE1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 4A | PHASE 5 | NO. REQ'D. | SIZE | M.U.T.C.D. NO. | QUANTITY (SQ. FT.) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ROAD WORK NEXT 2 MILE | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 36"X18" | G20-1 | 9.00 | |
| END ROAD WORK | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 36"X18" | G20-2 | 54.00 | |
| WORKER PRESENT REDUCE SPEED | | 5 | 5 | 5 | | 5 | 5 | 78"x60" | TN-44 | 162.50 | |
| SHIFT ARROW (RIGHT) | | 9 | 9 | 4 | 3 | | 9 | 30"X30" | W1-4R | 56.25 | |
| SHIFT ARROW (LEFT) | | 12 | 8 | 2 | 2 | | 12 | 30"X30" | W1-4L | 75.00 | |
| ROAD NARROWS | | 8 | 6 | | | | 8 | 36"X36" | W5-1 | 72.00 | |
| BUMP | | | | | | | 8 | 36"X36" | W8-1 | 72.00 | LOCATION TO BE DETERMINED BY THE ENGINEER |
| ROUGH ROAD | | | | | | | 8 | 36"X36" | W8-8 | 72.00 | LOCATION TO BE DETERMINED BY THE ENGINEER |
| 30 MPH ADVISORY PLATE | | 4 | 4 | 4 | | | 4 | 24"X24" | W13-1P | 16.00 | |
| DEAD END | | 1 | 1 | | | | 1 | 30"X30" | W14-1 | 6.25 | |
| 500 FEET (PLAQUE) | 1 | 3 | 3 | | | | 3 | 24"X18" | W16-2P | 9.00 | |
| ROAD WORK 1/2 MILE | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 36"X36" | W20-1 | 63.00 | |
| ROAD WORK 1500 FT. | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 36"X36" | W20-1 | 63.00 | |
| ROAD WORK 1000 FT. | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 36"X36" | W20-1 | 63.00 | |
| ROAD WORK 500 FT. | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 36"X36" | W20-1 | 63.00 | |
| ROAD WORK AHEAD | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 36"X36" | W20-1 | 45.00 | |
| FLAGGER (SYMBOL) | | 5 | 3 | | | 2 | 5 | 36"X36" | W20-7 | 45.00 | SEE PLANS FOR NOTE CONCERNING THIS SIGN |
| FLAGGER AHEAD | | | | | | 2 | 2 | 36"X36" | W20-7a | 18.00 | |
| SIDEWALK CLOSED | 2 | 2 | 2 | | | | 2 | 24"X12" | R9-9 | 4.00 | |
| KEEP RIGHT | | 4 | | | | | 4 | 24"X30" | R4-7A | 20.00 | |
| ROAD CLOSED | | 15 | 18 | 8 | 4 | | 18 | 48"X30" | R11-2 | 180.00 | |
| (1) WIDE LOADS | | 2 | | | | | 2 | 72"X36 | | 36.00 | SPECIAL SIGN |
| SIDE ROAD NAME | | 10 | | | | | 10 | 30"X30" | | 62.50 | SPECIAL SIGN |
| PROJECT TOTAL : ITEM NO. 712-06, SIGNS (CONSTRUCTION) | | | | | | | | | | 1,267 | |

NOTE:
(1) SIGN PLACEMENT TO BE AS DIRECTED BY THE ENGINEER.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TABULATED QUANTITIES

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 51B |
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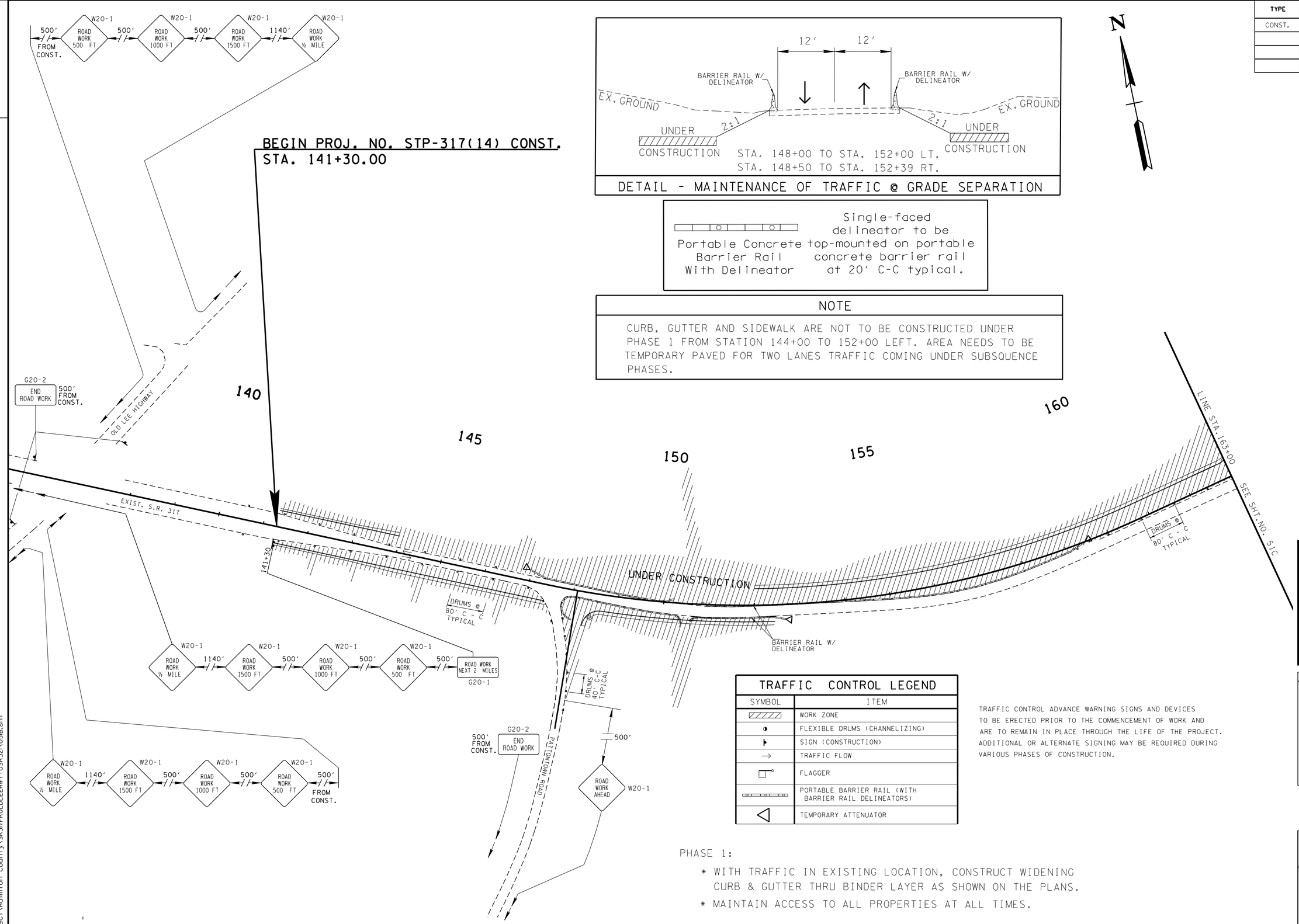






DETAIL - MAINTENANCE OF TRAFFIC @ GRADE SEPARATION

Portable Concrete Barrier Rail With Delineator

Single-faced delineator to be top-mounted on portable concrete barrier rail at 20′ C-C typical.

## NOTE

CURB, GUTTER AND SIDEWALK ARE NOT TO BE CONSTRUCTED UNDER PHASE 1 FROM STATION 144+00 TO 152+00 LEFT. AREA NEEDS TO BE TEMPORARY PAVED FOR TWO LANES TRAFFIC COMING UNDER SUBSQUENCE PHASES.

## TRAFFIC CONTROL LEGEND

| SYMBOL | ITEM |
|---|---|
| | WORK ZONE |
| | FLEXIBLE DRUMS (CHANNELIZING) |
| | SIGN (CONSTRUCTION) |
| → | TRAFFIC FLOW |
| | FLAGGER |
| | PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS) |
| | TEMPORARY ATTENUATOR |

TRAFFIC CONTROL ADVANCE WARNING SIGNS AND DEVICES TO BE ERECTED PRIOR TO THE COMMENCEMENT OF WORK AND ARE TO REMAIN IN PLACE THROUGH THE LIFE OF THE PROJECT. ADDITIONAL OR ALTERNATE SIGNING MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.

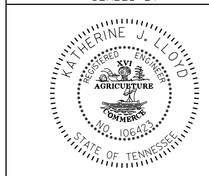
PHASE 1:

* WITH TRAFFIC IN EXISTING LOCATION, CONSTRUCT WIDENING CURB & GUTTER THRU BINDER LAYER AS SHOWN ON THE PLANS.
* MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 1

STA. 141+30 TO STA. 163+00

SCALE: 1″=100′

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 51C |
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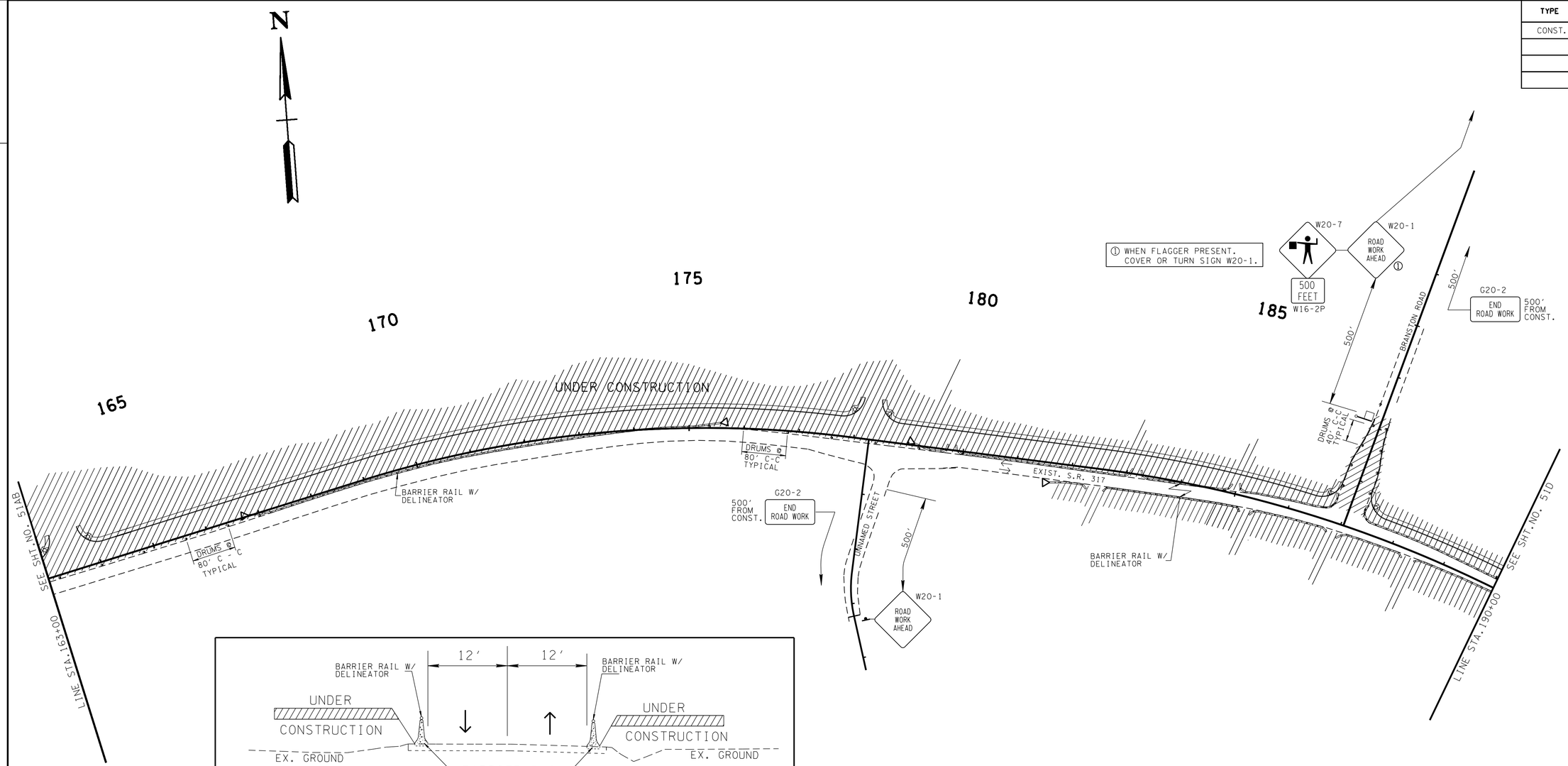
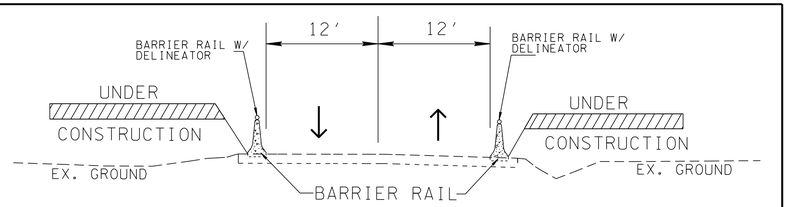
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




STA. 182+00 TO STA. 198+00 LT.
STA. 182+00 TO STA. 198+00 RT.

DETAIL - MAINTENANCE OF TRAFFIC @ GRADE SEPARATION

Portable Concrete Barrier Rail With Delineator

Single-faced delineators to be top-mounted on portable concrete barrier rail at 20' C-C typical.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 1

STA. 163+00 TO STA. 190+00

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 51D |
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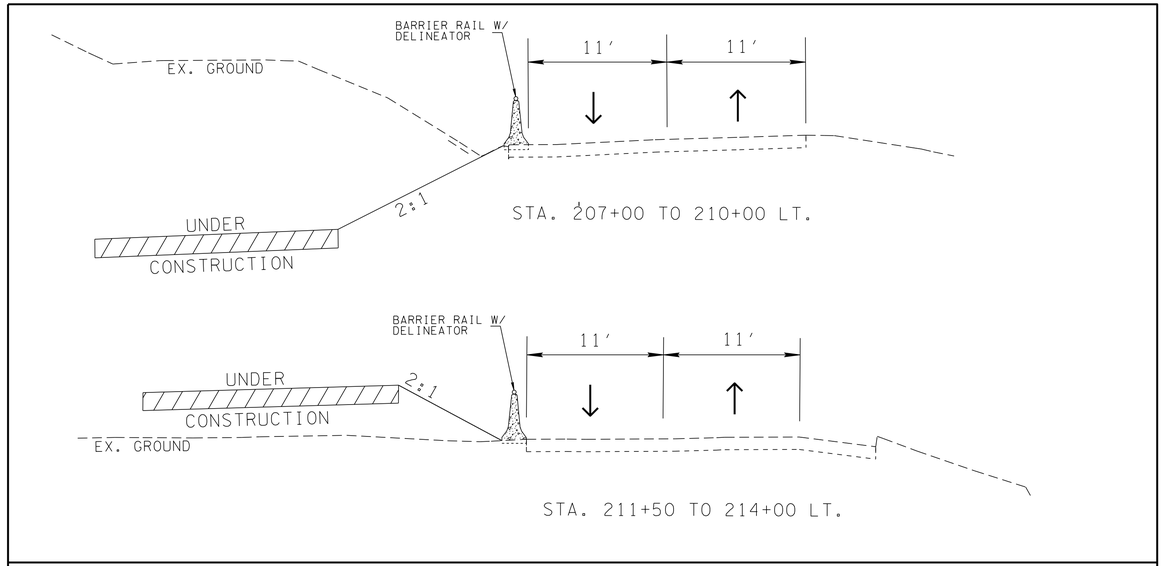
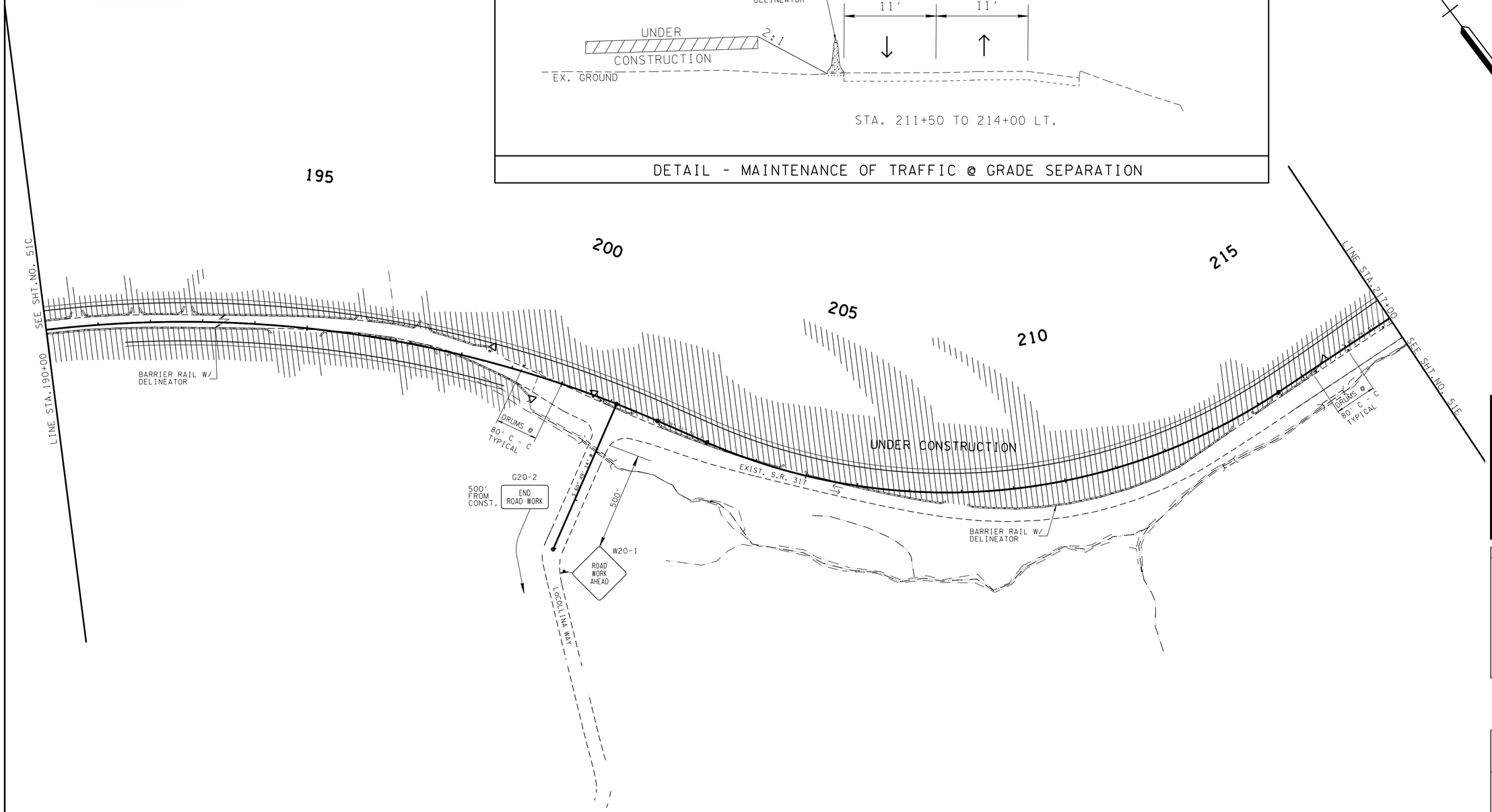
Portable Concrete Barrier Rail With Delineator

Single-faced delineators to be top-mounted on portable concrete barrier rail at 20' C-C typical.




DETAIL - MAINTENANCE OF TRAFFIC @ GRADE SEPARATION




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 1

STA. 190+00 TO STA. 217+00

SCALE: 1"=100'

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| TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO. |
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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| CONST. | 2014 | STP/NH-317(14) | 51E |
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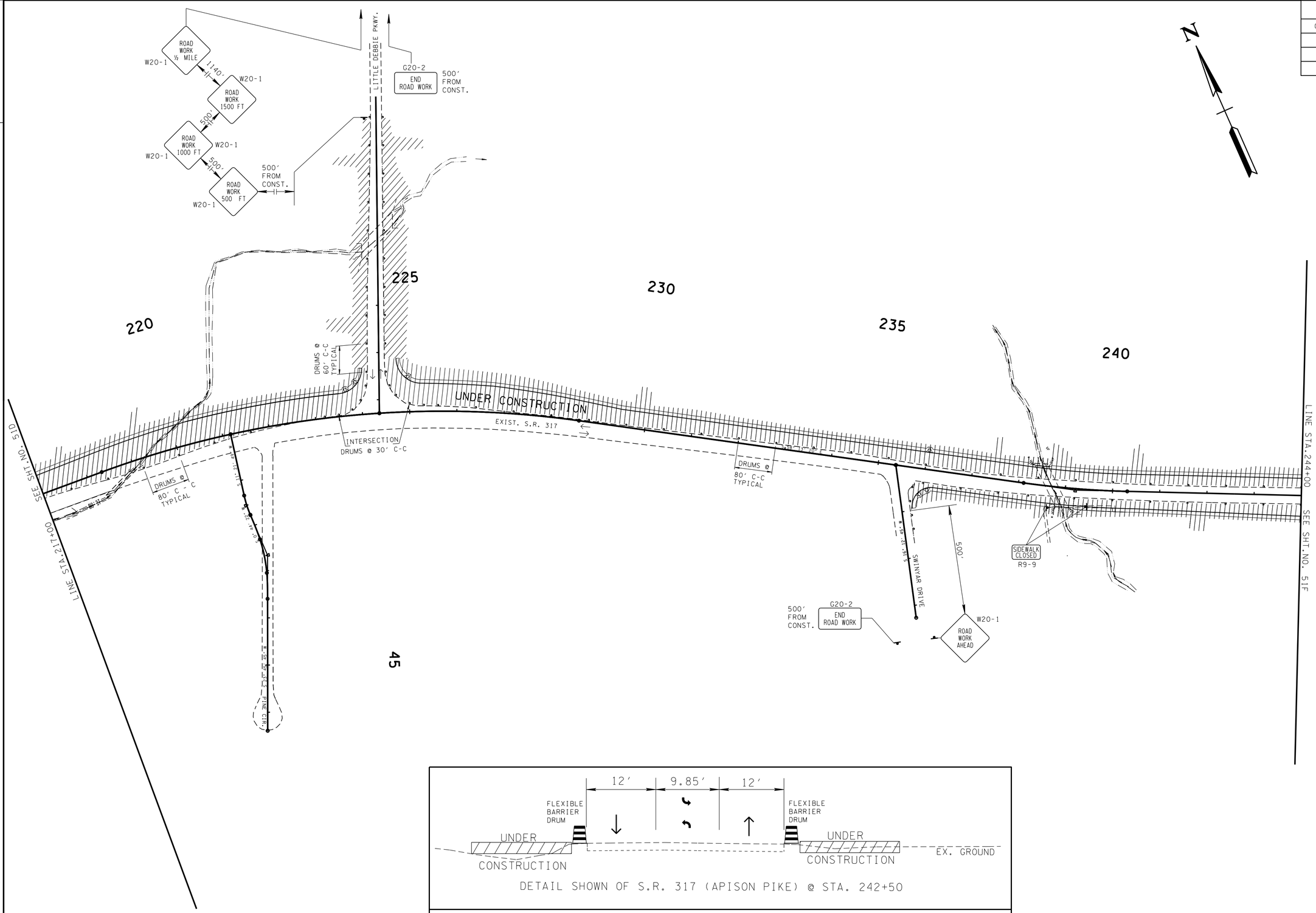


DETAIL - MAINTENANCE OF TRAFFIC

45

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 1

STA. 217+00 TO STA. 244+00

SCALE: 1"=100'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 51F |
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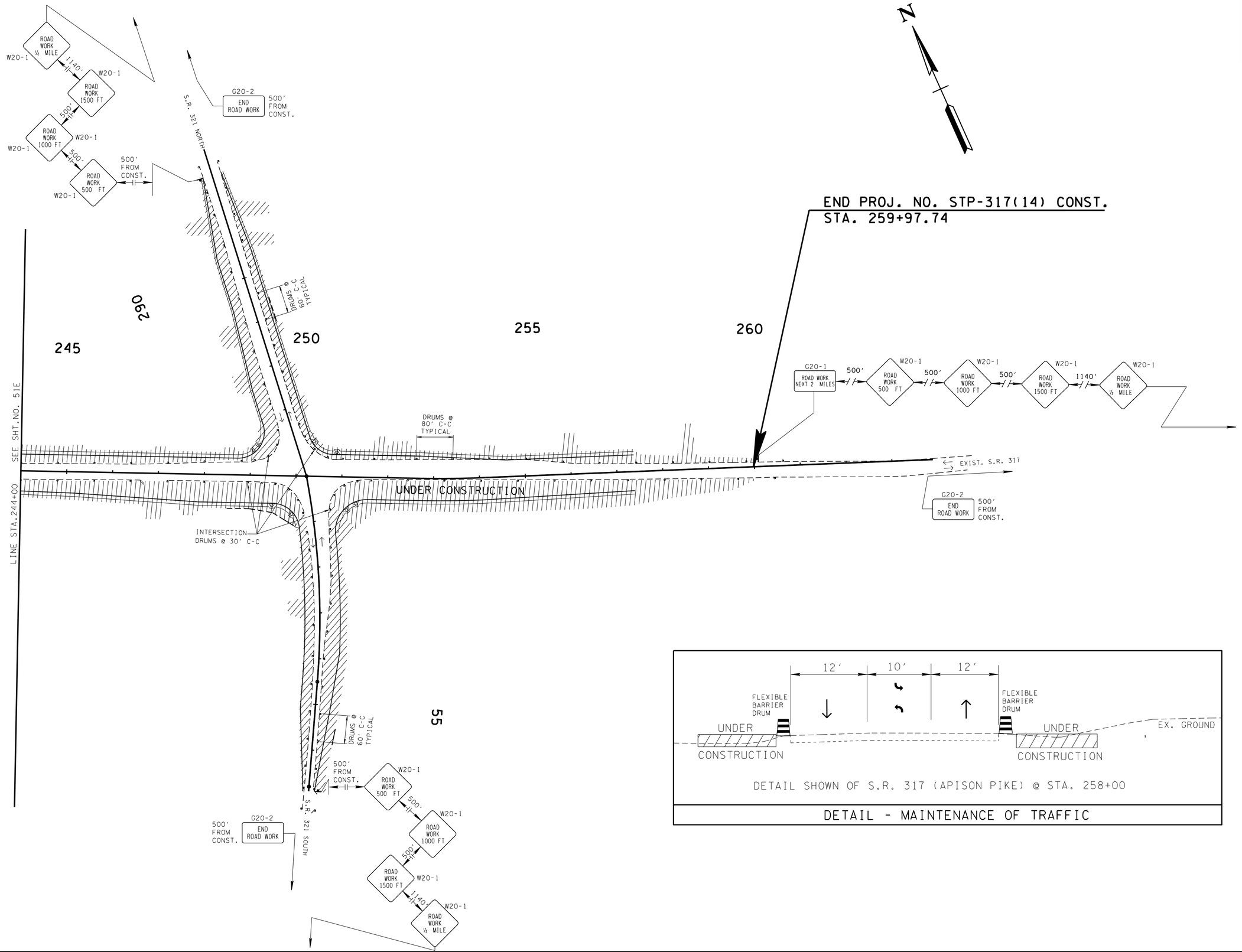
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.







DETAIL SHOWN OF S.R. 317 (APISON PIKE) @ STA. 258+00

DETAIL - MAINTENANCE OF TRAFFIC

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 1

STA. 97+00 TO STA. 259+89

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 52 |
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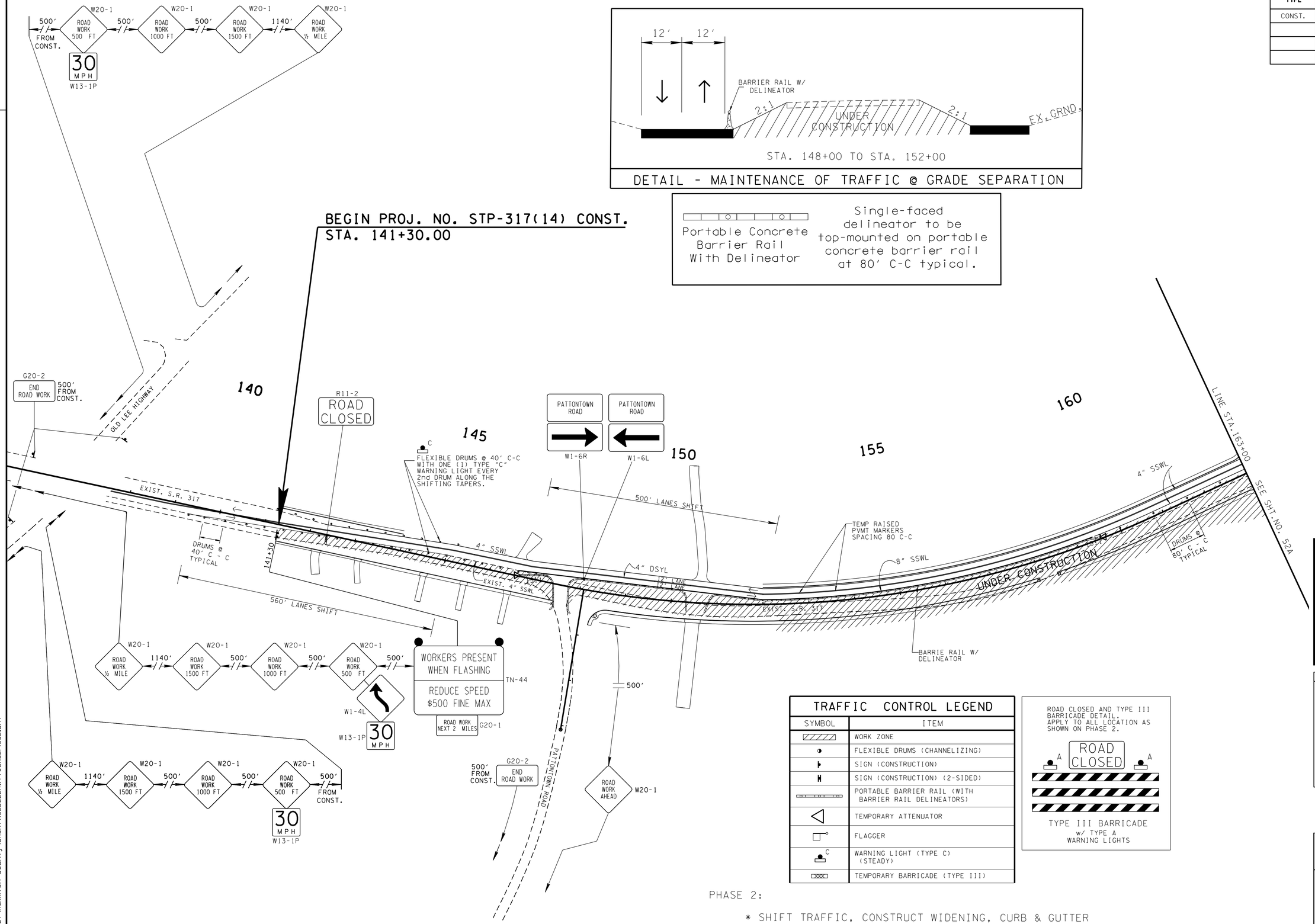
DETAIL - MAINTENANCE OF TRAFFIC @ GRADE SEPARATION

Portable Concrete Barrier Rail With Delineator

Single-faced delineator to be top-mounted on portable concrete barrier rail at 80′ C-C typical.




| TRAFFIC CONTROL LEGEND | |
|---|---|
| SYMBOL | ITEM |
| | WORK ZONE |
| | FLEXIBLE DRUMS (CHANNELIZING) |
| | SIGN (CONSTRUCTION) |
| | SIGN (CONSTRUCTION) (2-SIDED) |
| | PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS) |
| | TEMPORARY ATTENUATOR |
| | FLAGGER |
| C | WARNING LIGHT (TYPE C) (STEADY) |
| | TEMPORARY BARRICADE (TYPE III) |

ROAD CLOSED AND TYPE III BARRICADE DETAIL. APPLY TO ALL LOCATION AS SHOWN ON PHASE 2.

ROAD CLOSED

TYPE III BARRICADE w/ TYPE A WARNING LIGHTS

PHASE 2:

* SHIFT TRAFFIC, CONSTRUCT WIDENING, CURB & GUTTER THRU BINDER LAYER AS SHOWN ON THE PLANS.
* MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
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AGRICULTURE
NO. 109123
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 2

STA. 141+30 TO STA. 163+00

SCALE: 1″=100′

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 52A |
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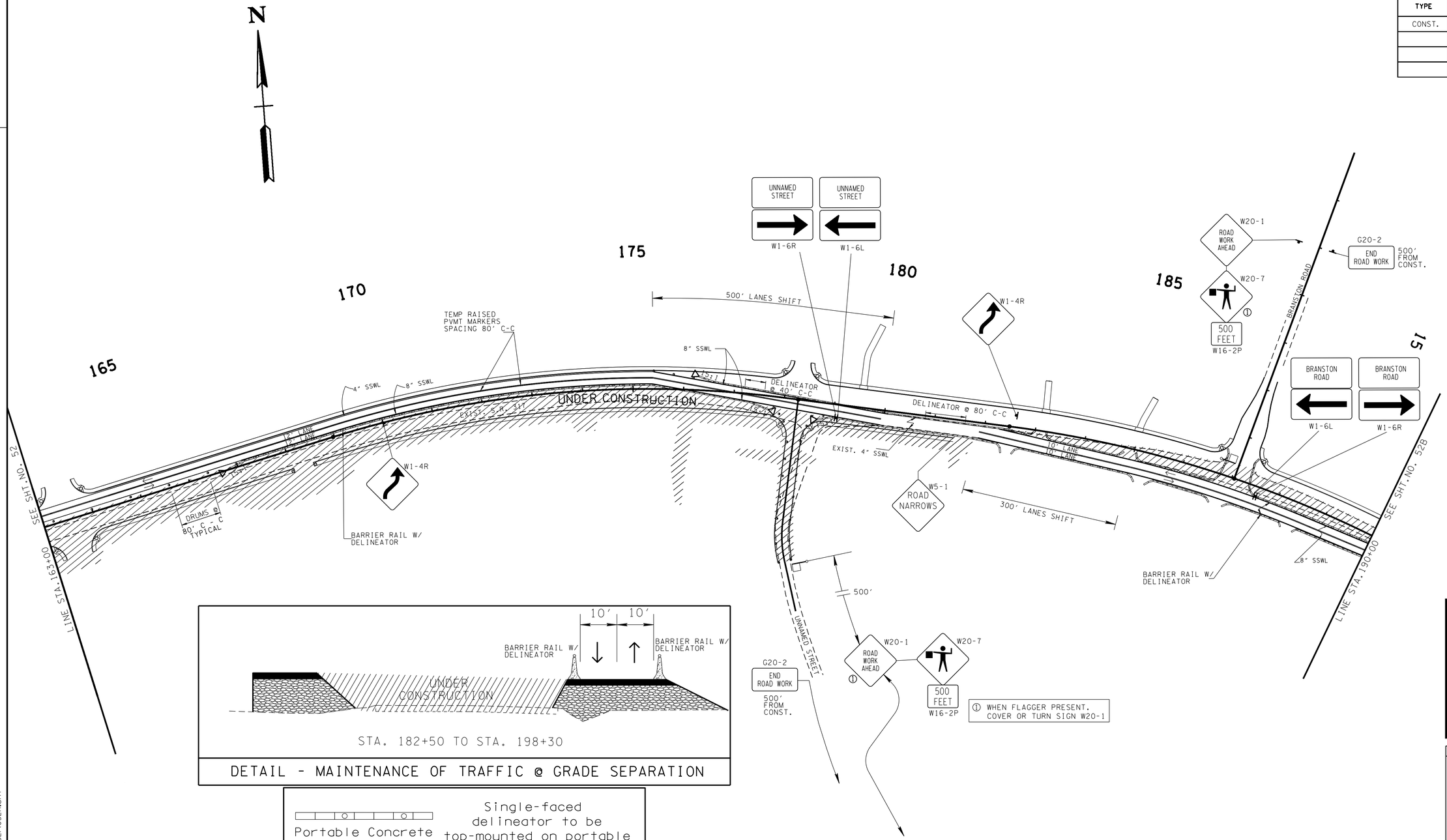
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.







DETAIL - MAINTENANCE OF TRAFFIC @ GRADE SEPARATION

| | |
|---|---|
| Portable Concrete Barrier Rail With Delineator | Single-faced delineator to be top-mounted on portable concrete barrier rail at 80' C-C typical. |

NOTE

INTERSECTION OF BRANSTON ROAD AND S.R. 317 TO BE COMPLETED UNDER TRAFFIC.
UNNAMED STREET IS TO BE CONSTRUCTED UNDER TRAFFIC.
USE FLEXIBLE BARREL DRUMS TO DELINEATE AND FLAGGERS TO DIRECT TRAFFIC.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
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AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 2

STA. 163+00 TO STA. 190+00

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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| CONST. | 2014 | STP/NH-317(14) | 52B |
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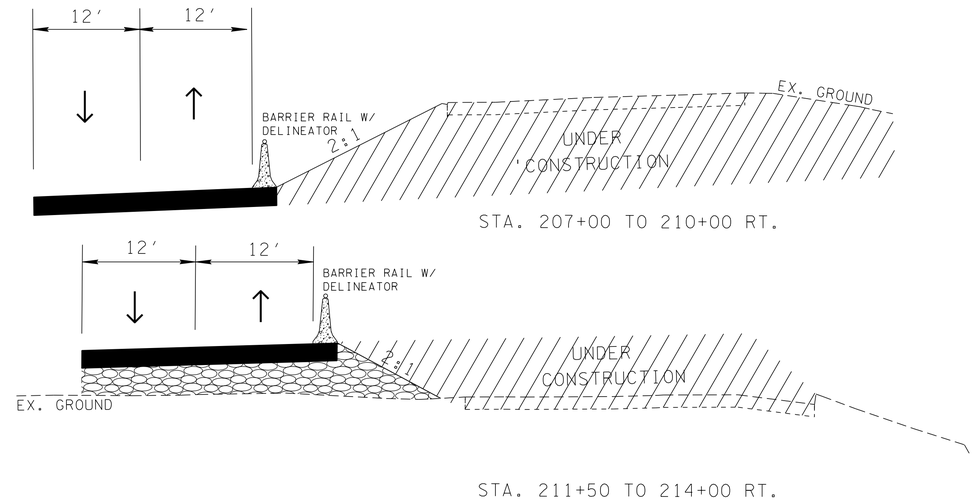
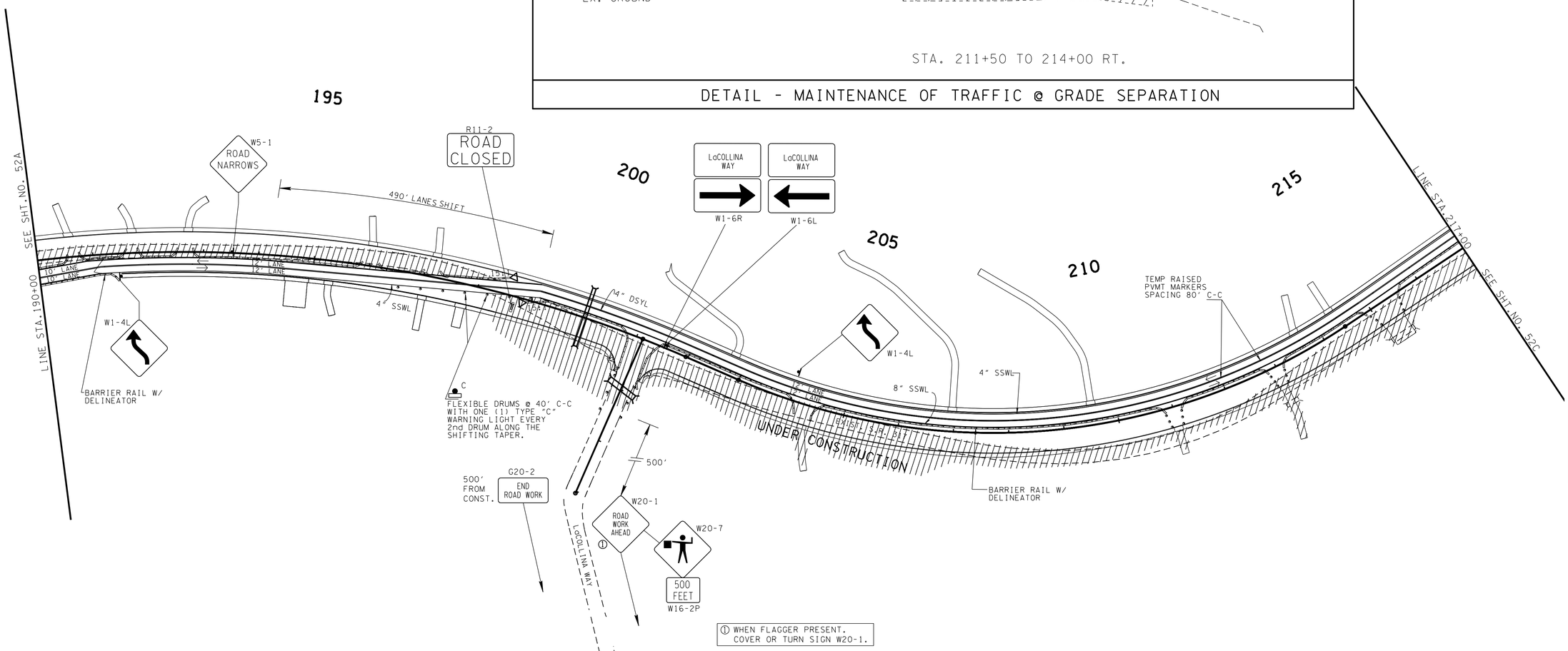
Portable Concrete Barrier Rail With Delineator

Single-faced delineator to be top-mounted on portable concrete barrier rail at 20′ C-C typical.




DETAIL - MAINTENANCE OF TRAFFIC @ GRADE SEPARATION




① WHEN FLAGGER PRESENT. COVER OR TURN SIGN W20-1.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 2

STA. 190+00 TO STA. 217+00

SCALE: 1″=100′

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

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| CONST. | 2014 | STP/NH-317(14) | 52C |
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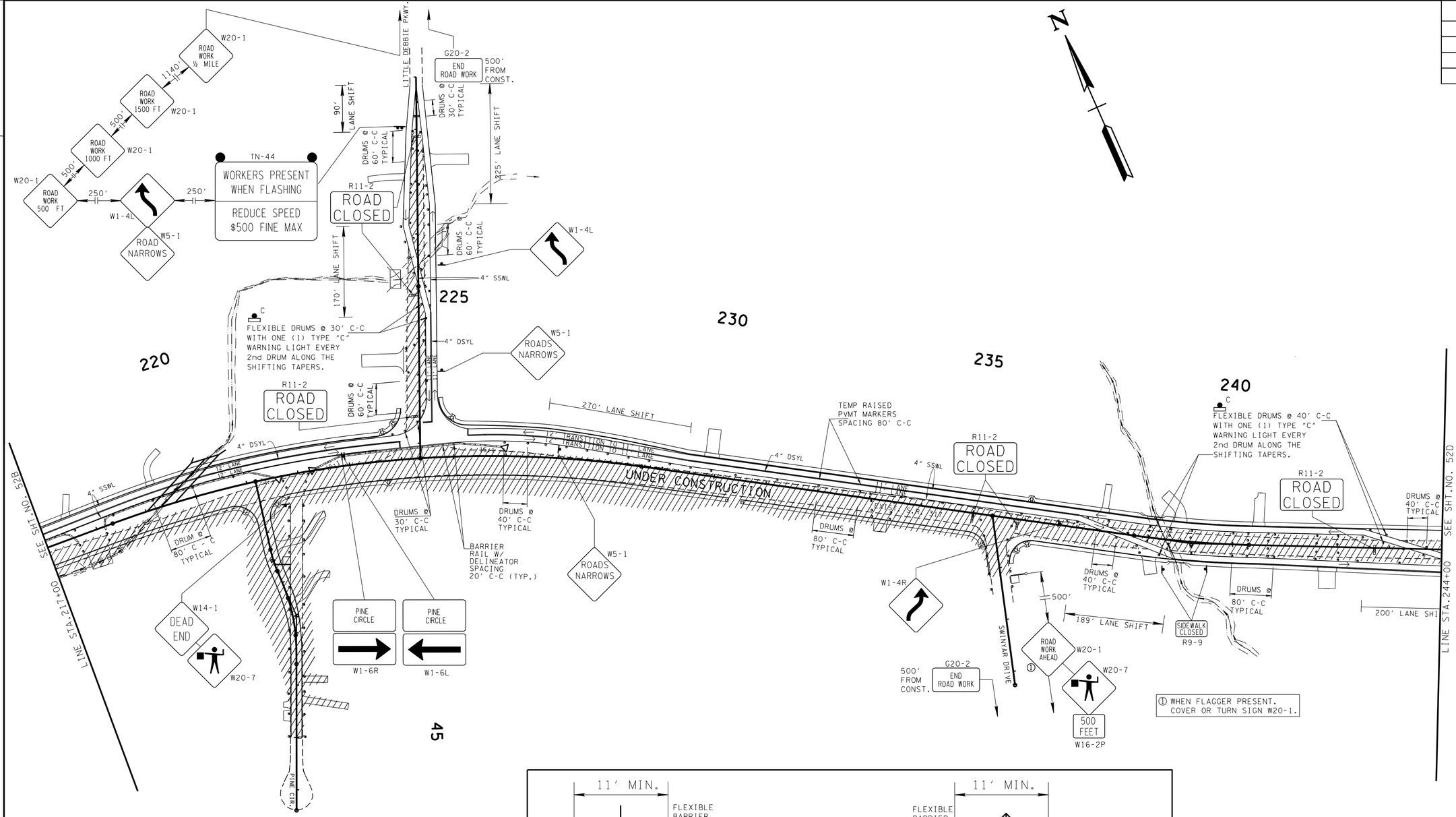


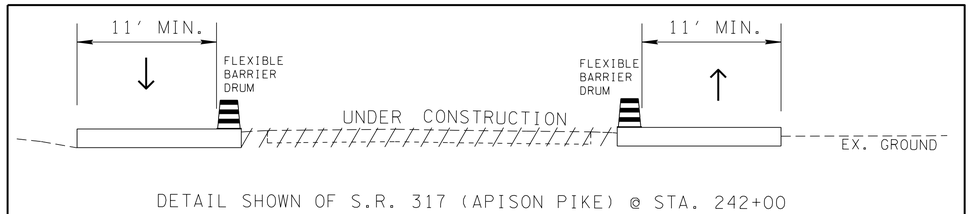


DETAIL SHOWN OF S.R. 317 (APISON PIKE) @ STA. 242+00

DETAIL - MAINTENANCE OF TRAFFIC

NOTE

PINE CIRCLE AND SWINYAR DRIVE ARE TO BE CONSTRUCTED UNDER TRAFFIC.
USE FLEXIBLE BARREL DRUMS TO DELINEATE AND FLAGGERS TO DIRECT TRAFFIC.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 2

STA. 217+00 TO STA. 244+00

SCALE: 1"=100'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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| CONST. | 2014 | STP/NH-317(14) | 52D |
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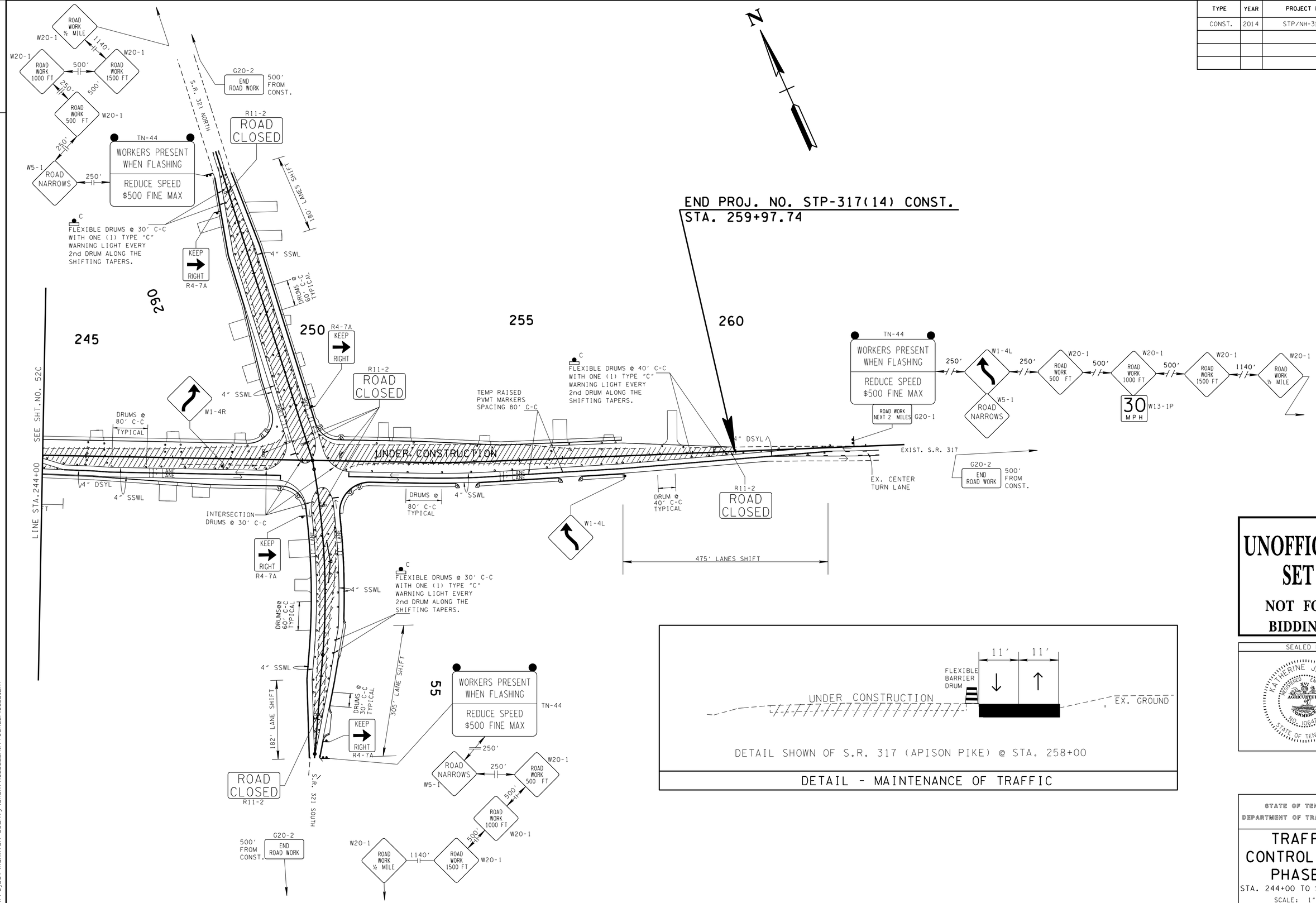
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.







DETAIL SHOWN OF S.R. 317 (APISON PIKE) @ STA. 258+00

DETAIL - MAINTENANCE OF TRAFFIC

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 2

STA. 244+00 TO STA. 259+97

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 53 |
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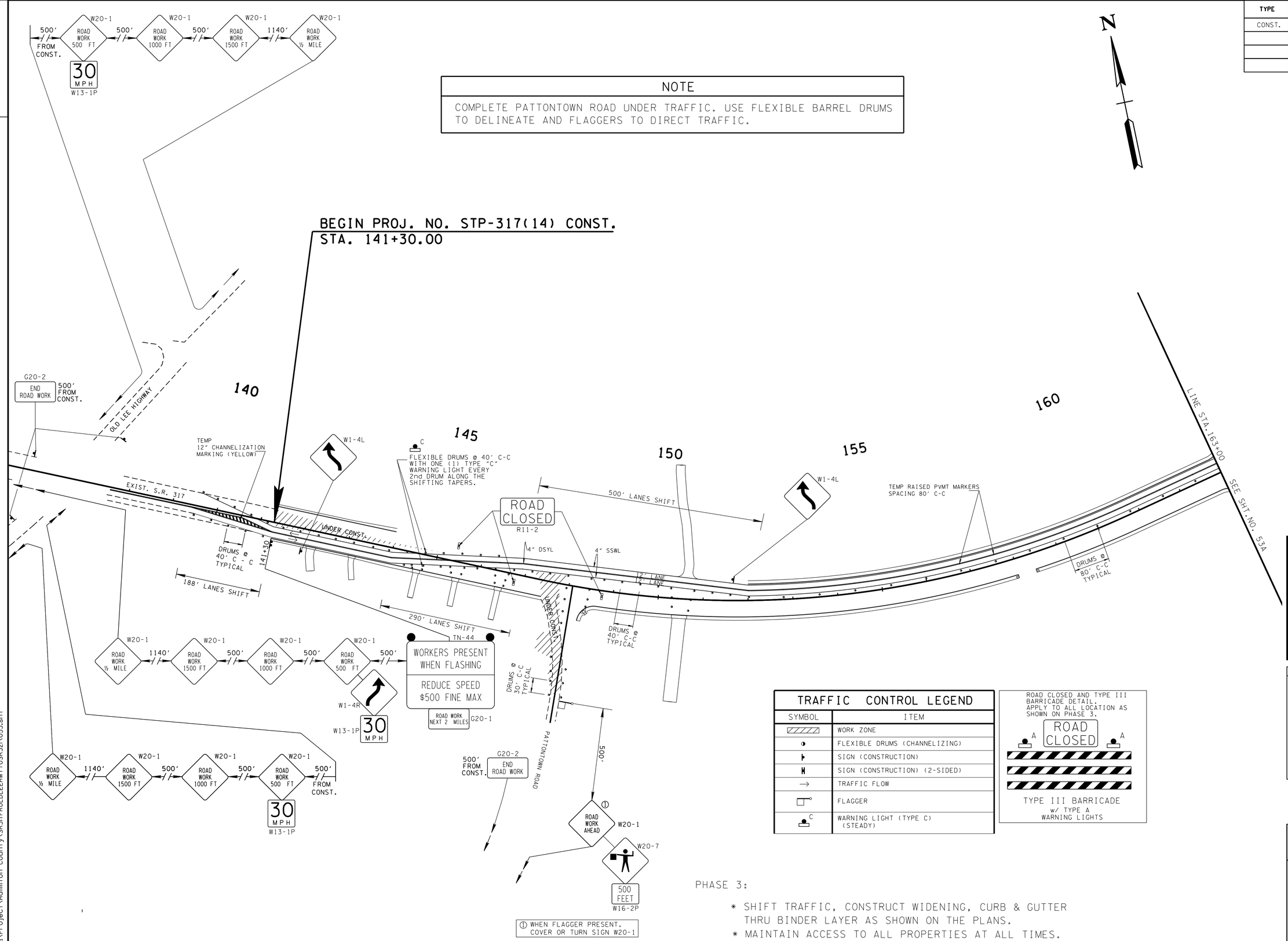
## NOTE

COMPLETE PATTONTOWN ROAD UNDER TRAFFIC. USE FLEXIBLE BARREL DRUMS TO DELINEATE AND FLAGGERS TO DIRECT TRAFFIC.




| TRAFFIC CONTROL LEGEND | |
|---|---|
| SYMBOL | ITEM |
| | WORK ZONE |
| | FLEXIBLE DRUMS (CHANNELIZING) |
| | SIGN (CONSTRUCTION) |
| | SIGN (CONSTRUCTION) (2-SIDED) |
| → | TRAFFIC FLOW |
| | FLAGGER |
| C | WARNING LIGHT (TYPE C) (STEADY) |

ROAD CLOSED AND TYPE III BARRICADE DETAIL. APPLY TO ALL LOCATION AS SHOWN ON PHASE 3.




TYPE III BARRICADE w/ TYPE A WARNING LIGHTS

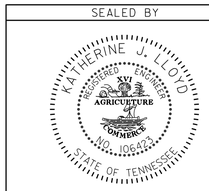
PHASE 3:

* SHIFT TRAFFIC, CONSTRUCT WIDENING, CURB & GUTTER THRU BINDER LAYER AS SHOWN ON THE PLANS.
* MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 3

STA. 141+30 TO STA. 163+00

SCALE: 1"=100'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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| CONST. | 2014 | STP/NH-317(14) | 53A |
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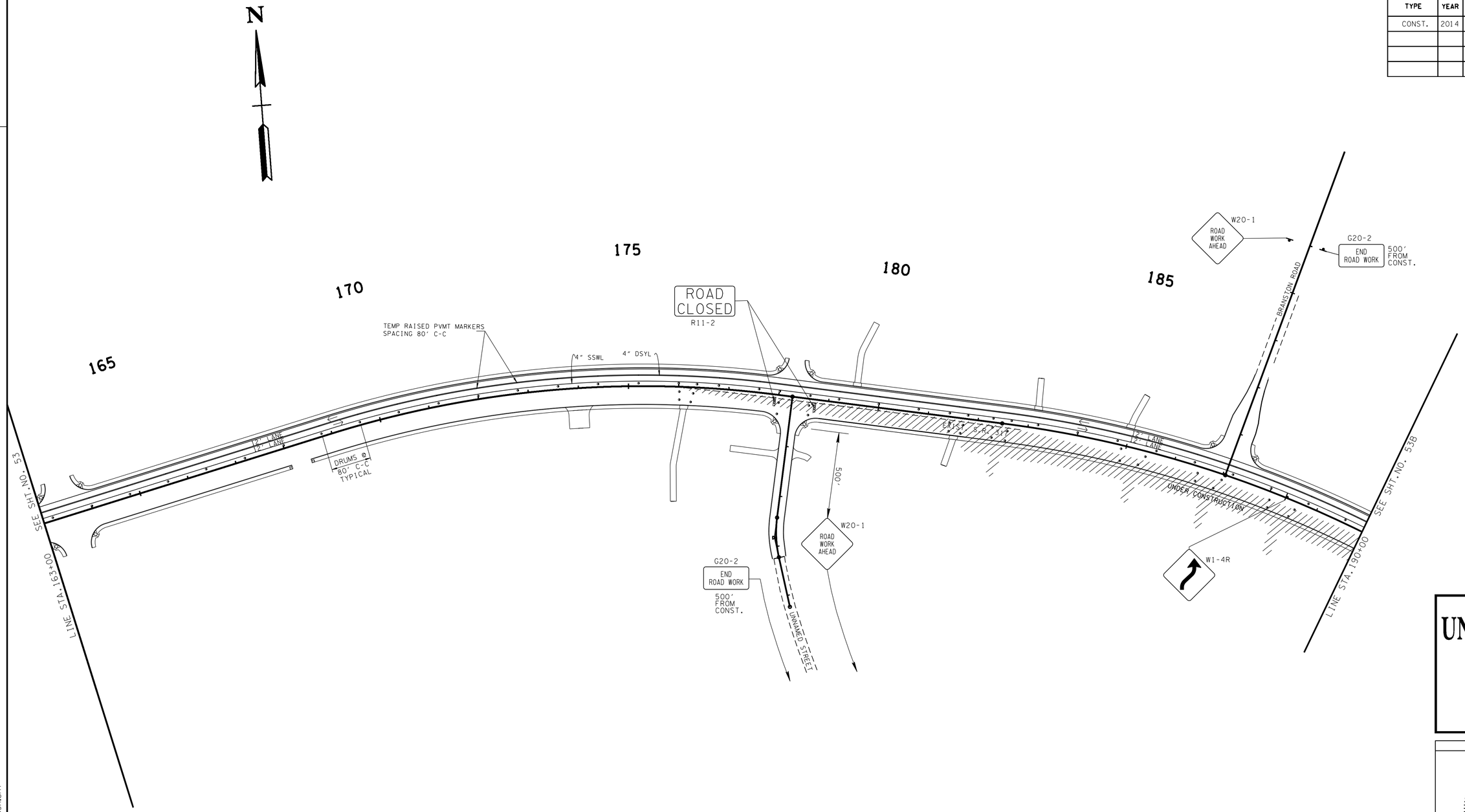
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




NOTE

COMPLETE INTERSECTION OF S.R. 317 AND UNNAMED STREET UNDER TRAFFIC. USE FLEXIBLE BARREL DRUMS TO DELINEATE AND FLAGGERS TO DIRECT TRAFFIC.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 3

STA. 163+00 TO STA. 190+00

SCALE: 1"=100'

8-JUN-2014 08:22
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 53B |
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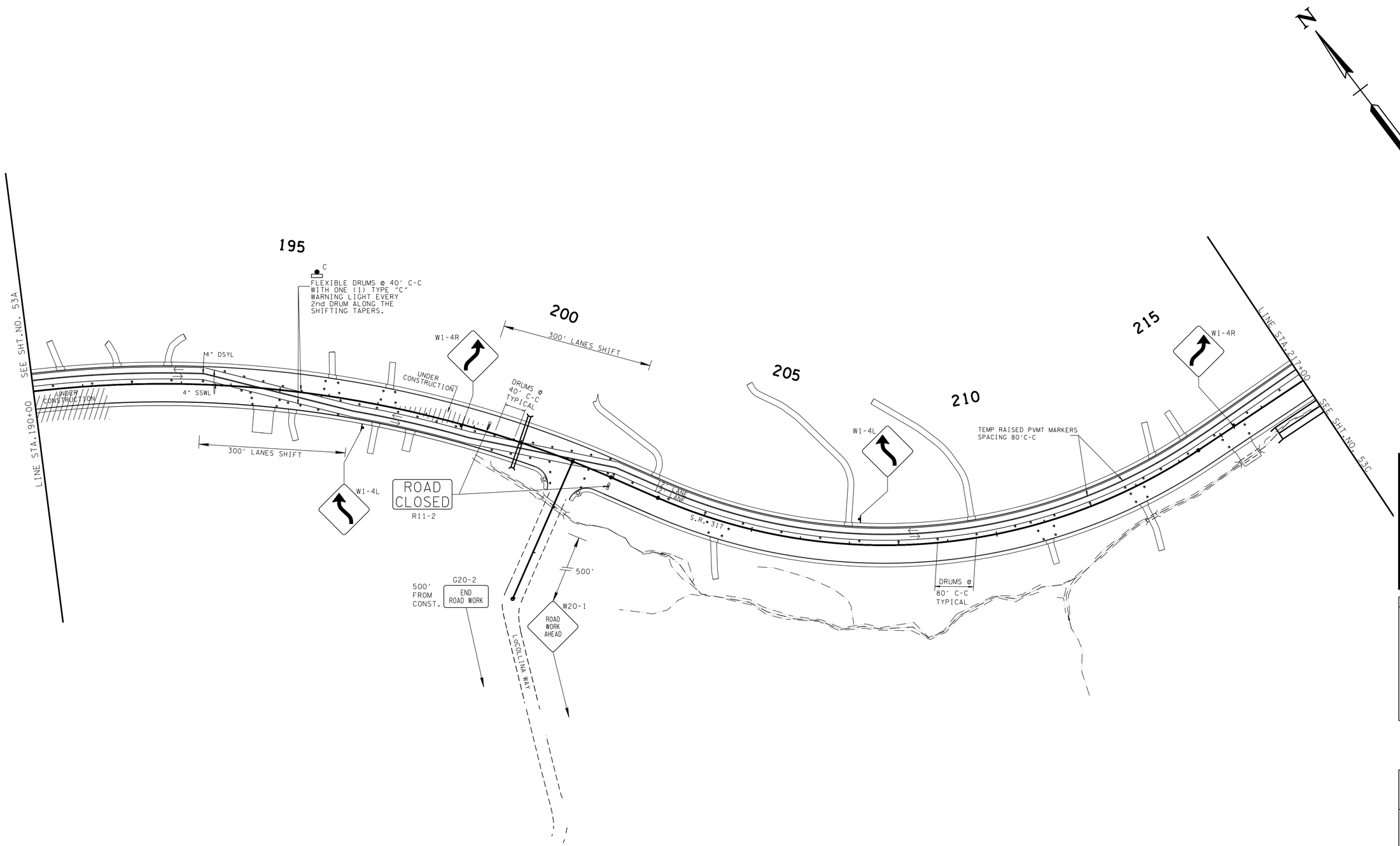
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 3

STA. 190+00 TO STA. 217+00

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 53C |
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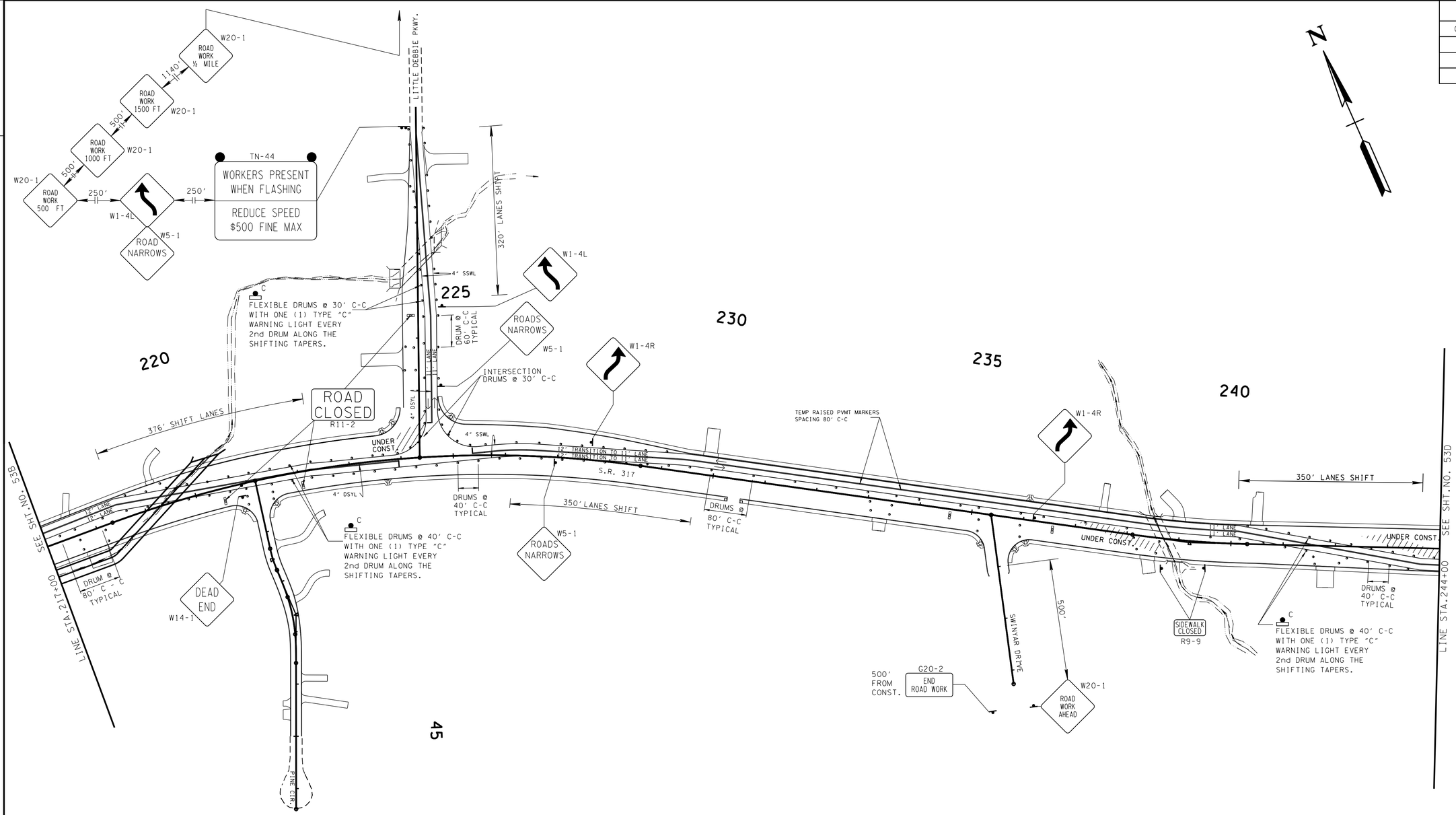


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**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 3

STA. 217+00 TO STA. 244+00

SCALE: 1"=100'

8-JUN-2014 08:22
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 53D |
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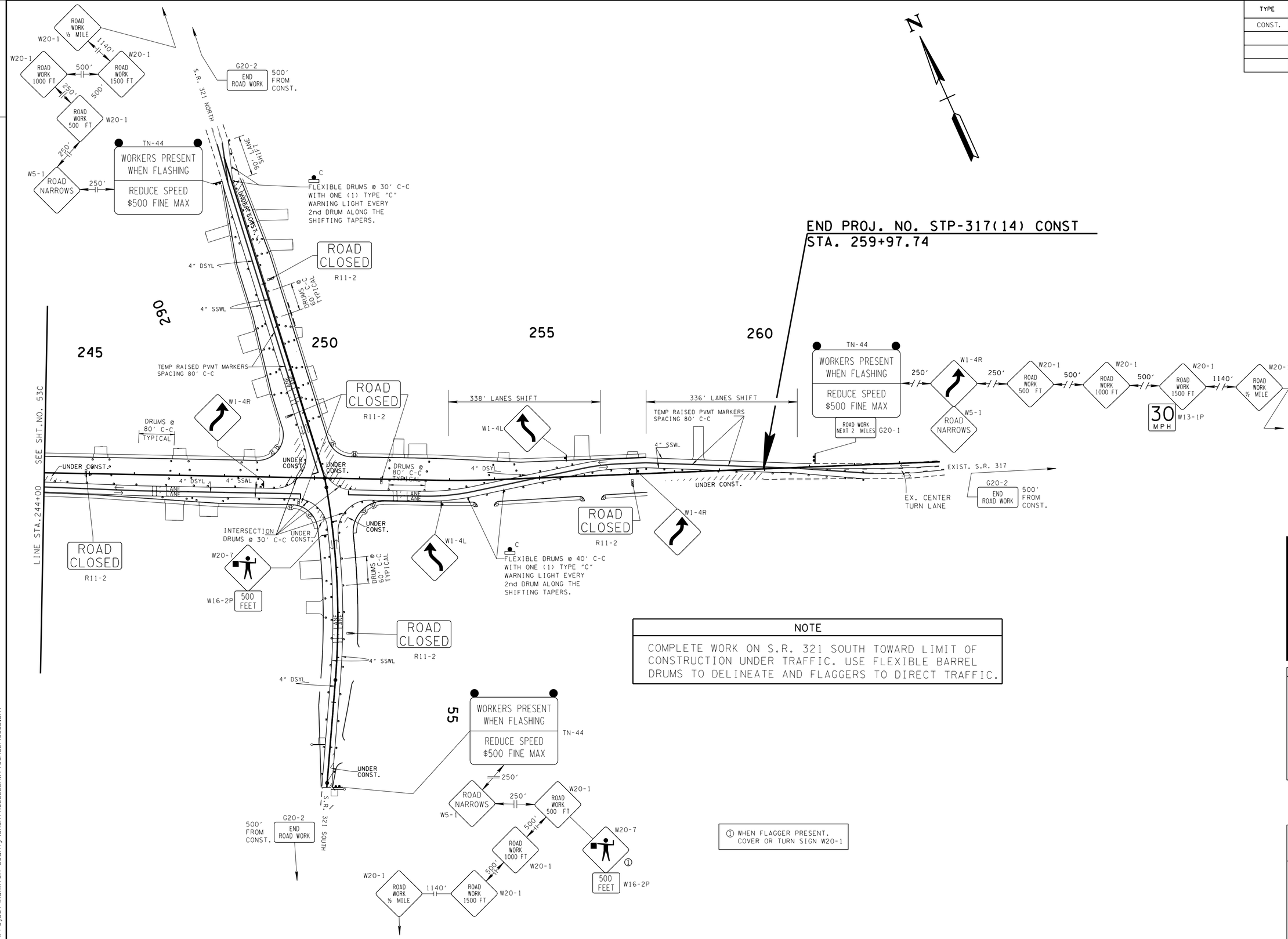
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 3

STA. 244+00 TO STA. 259+97

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 54 |
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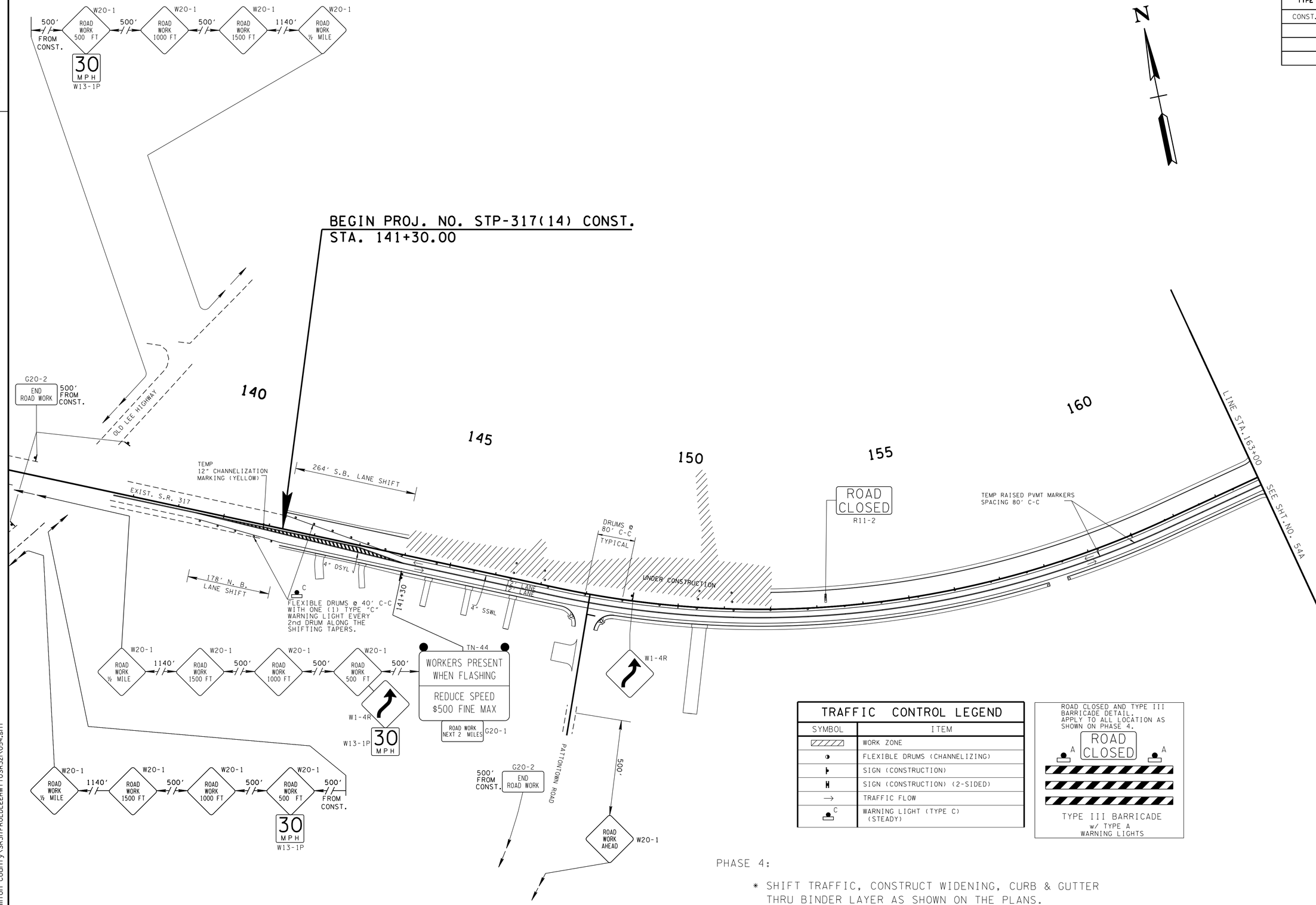



| TRAFFIC CONTROL LEGEND | |
|---|---|
| SYMBOL | ITEM |
| | WORK ZONE |
| | FLEXIBLE DRUMS (CHANNELIZING) |
| | SIGN (CONSTRUCTION) |
| | SIGN (CONSTRUCTION) (2-SIDED) |
| → | TRAFFIC FLOW |
| C | WARNING LIGHT (TYPE C) (STEADY) |

ROAD CLOSED AND TYPE III BARRICADE DETAIL. APPLY TO ALL LOCATION AS SHOWN ON PHASE 4.




TYPE III BARRICADE w/ TYPE A WARNING LIGHTS

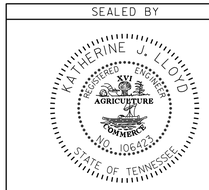
PHASE 4:

* SHIFT TRAFFIC, CONSTRUCT WIDENING, CURB & GUTTER THRU BINDER LAYER AS SHOWN ON THE PLANS.
* MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY




STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 4

STA. 141+30 TO STA. 163+00

SCALE: 1"=100'

8-JUN-2014 08:22
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 54A |
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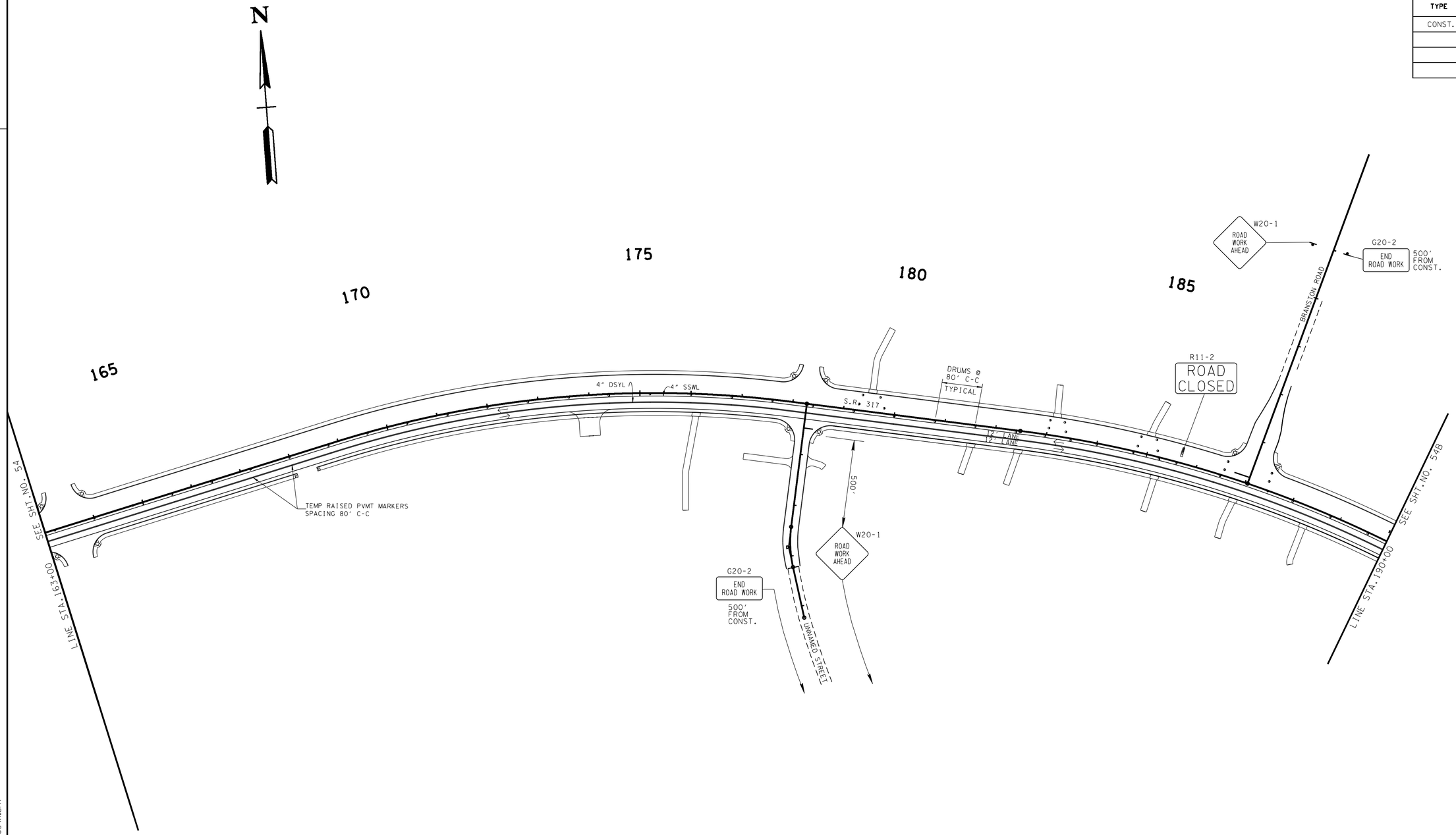
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 4

STA. 163+00 TO STA. 190+00

SCALE: 1"=100'

8-JUN-2014 08:22
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 54B |
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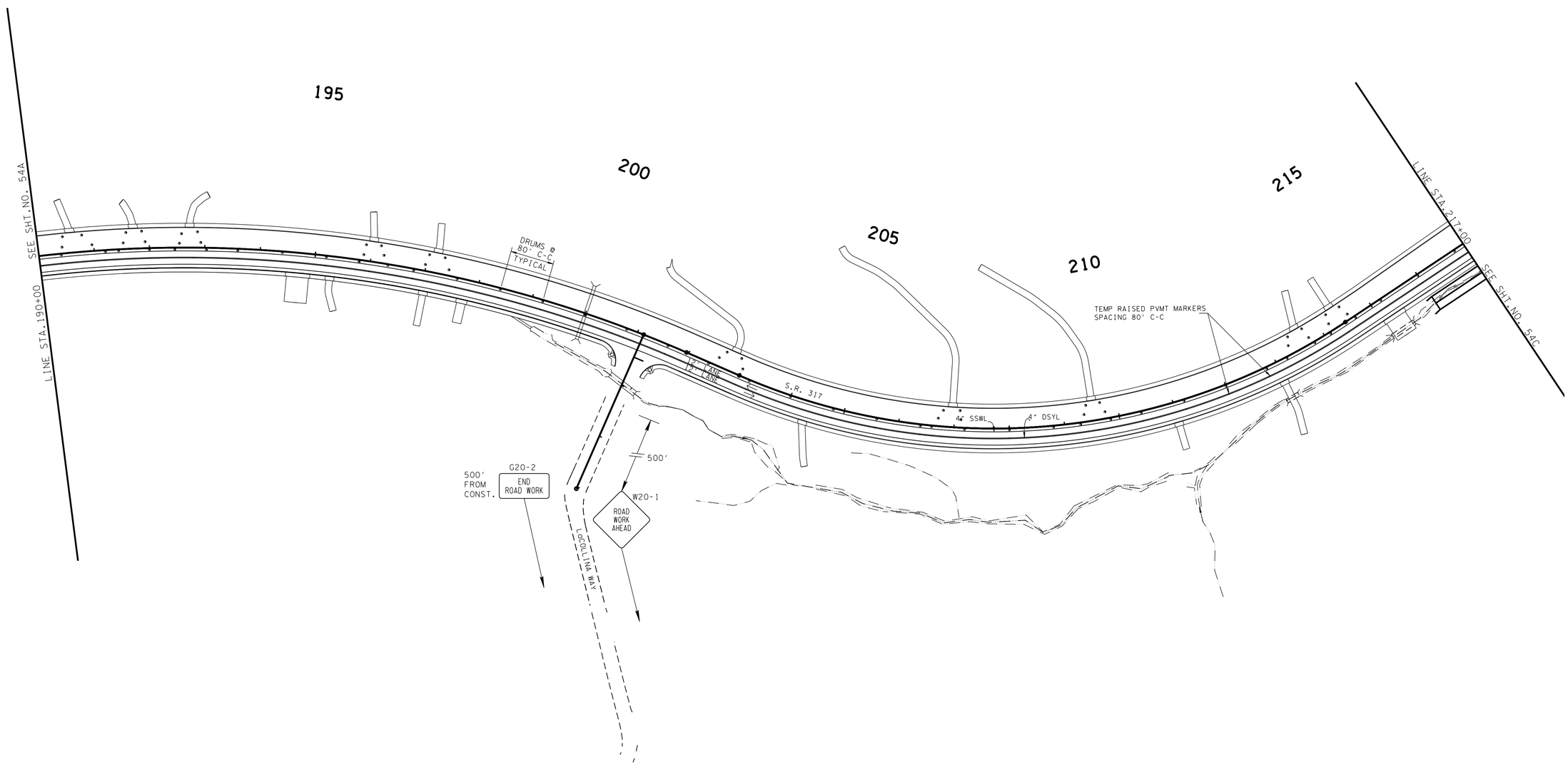


**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 4

STA. 190+00 TO STA. 217+00

SCALE: 1"=100'

8-JUN-2014 08:22
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| TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO. |
|---|---|---|

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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| CONST. | 2014 | STP/NH-317(14) | 54C |
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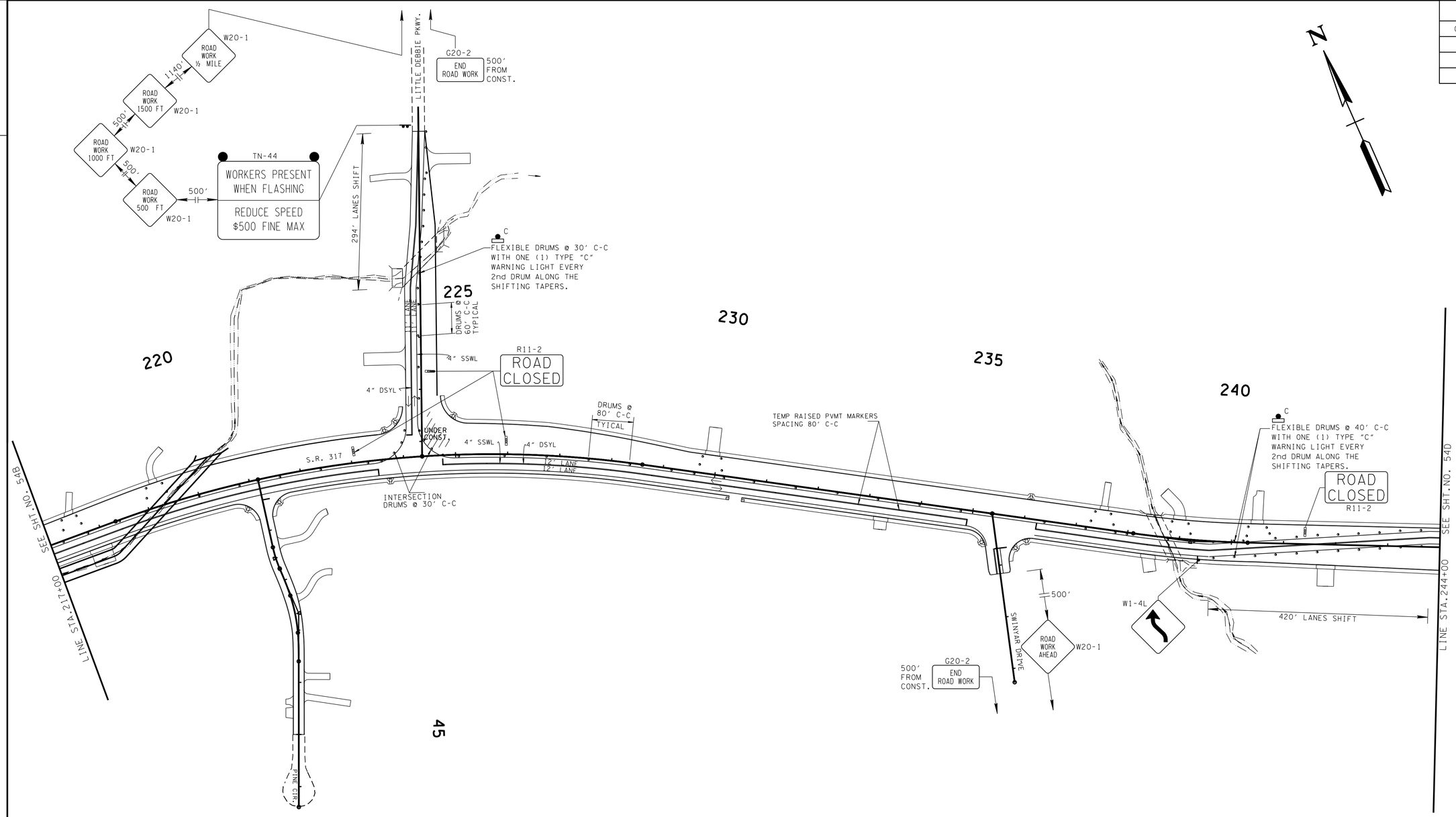


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| NOTE |
|---|
| COMPLETE WORK AT INTERSECTION OF S.R. 317 AND LITTLE DEBBIE PARKWAY. |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 4

STA. 217+00 TO STA. 244+00

SCALE: 1"=100'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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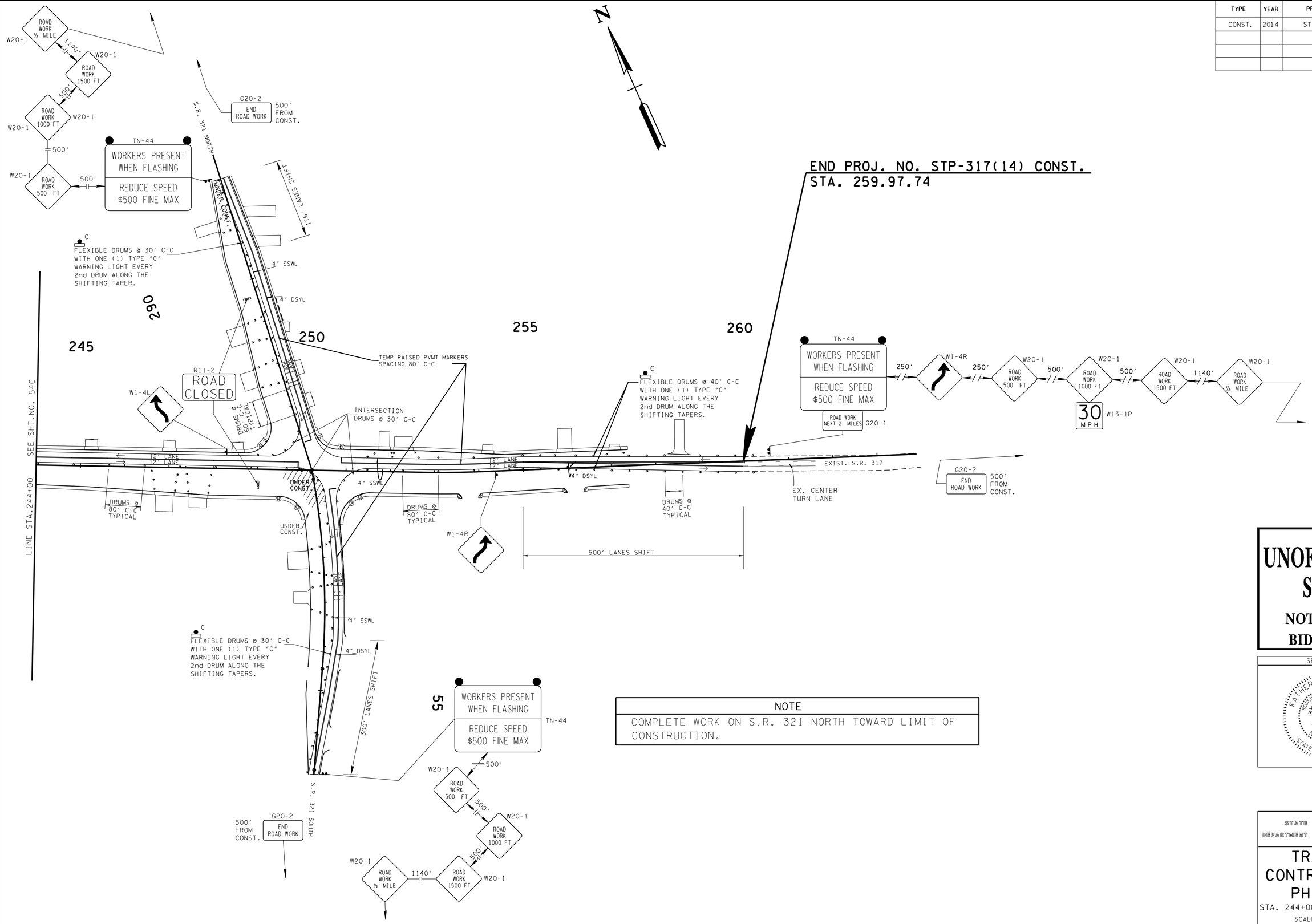
| CONST. | 2014 | STP/NH-317(14) | 54D |

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




| NOTE |
|---|
| COMPLETE WORK ON S.R. 321 NORTH TOWARD LIMIT OF CONSTRUCTION. |

**UNOFFICIAL SET**

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DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 4

STA. 244+00 TO STA. 259+97

SCALE: 1"=100'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 55 |
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PHASE 5

| TRAFFIC CONTROL LEGEND | |
|---|---|
| SYMBOL | ITEM |
| | WORK ZONE |
| | FLEXIBLE DRUMS (CHANNELIZING) |
| | REMOVE PAVEMENT STRIPING |
| | ARROW BOARD TYPE C |
| | FLAGGER |

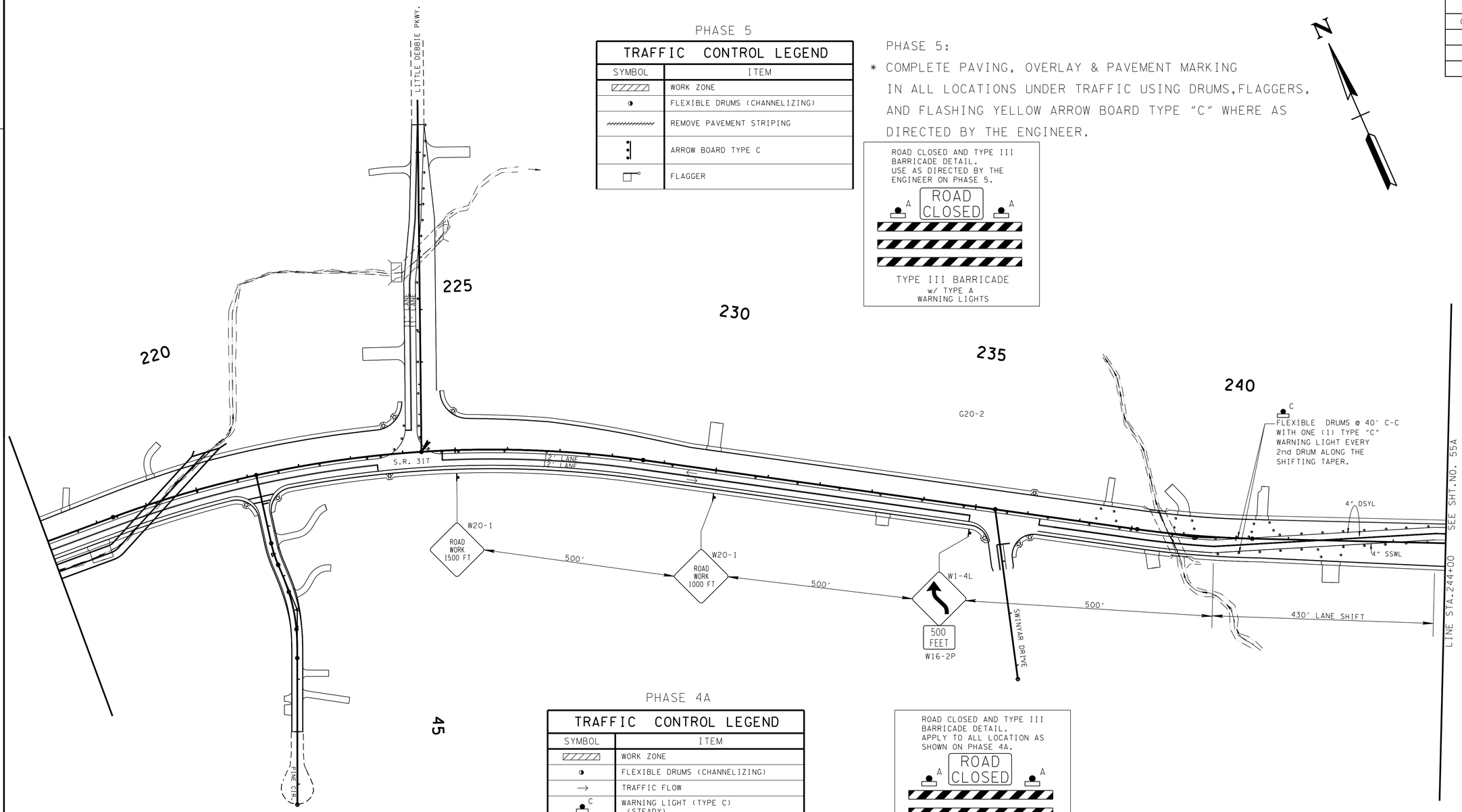
PHASE 5:

* COMPLETE PAVING, OVERLAY & PAVEMENT MARKING IN ALL LOCATIONS UNDER TRAFFIC USING DRUMS, FLAGGERS, AND FLASHING YELLOW ARROW BOARD TYPE "C" WHERE AS DIRECTED BY THE ENGINEER.

ROAD CLOSED AND TYPE III BARRICADE DETAIL.
USE AS DIRECTED BY THE ENGINEER ON PHASE 5.




TYPE III BARRICADE
w/ TYPE A
WARNING LIGHTS

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PHASE 4A

| TRAFFIC CONTROL LEGEND | |
|---|---|
| SYMBOL | ITEM |
| | WORK ZONE |
| | FLEXIBLE DRUMS (CHANNELIZING) |
| → | TRAFFIC FLOW |
| C | WARNING LIGHT (TYPE C) (STEADY) |

PHASE 4A:

* COMPLETE CONSTRUCTION AT INTERSECTION OF SR 317 & SR 321.

ROAD CLOSED AND TYPE III BARRICADE DETAIL.
APPLY TO ALL LOCATION AS SHOWN ON PHASE 4A.

TYPE III BARRICADE
w/ TYPE A
WARNING LIGHTS

**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 4A

STA. 217+00 TO STA. 244+00

SCALE: 1"=100'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 55A |
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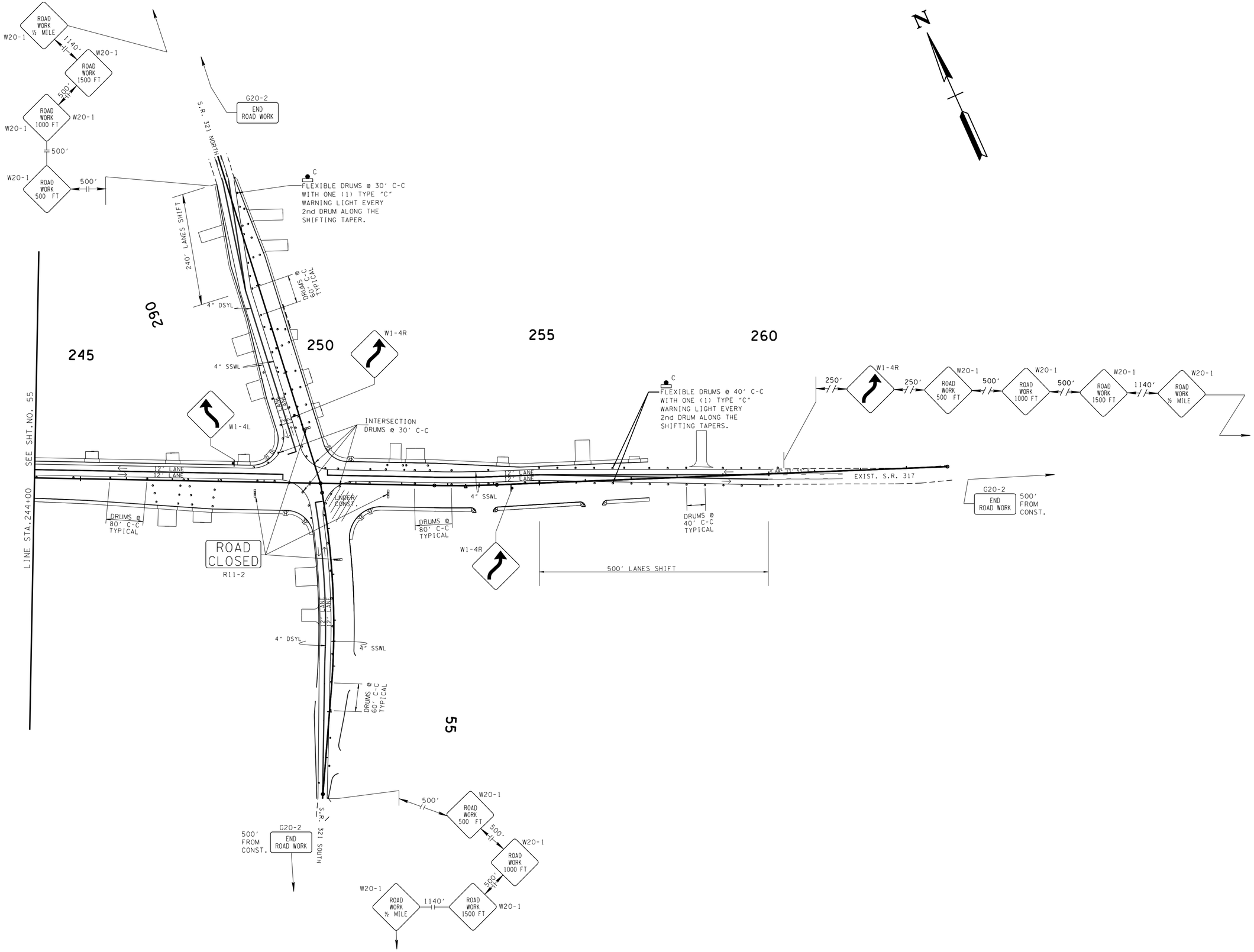
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLAN PHASE 4A

STA. 244+00 TO STA. 259+97

SCALE: 1"=100'

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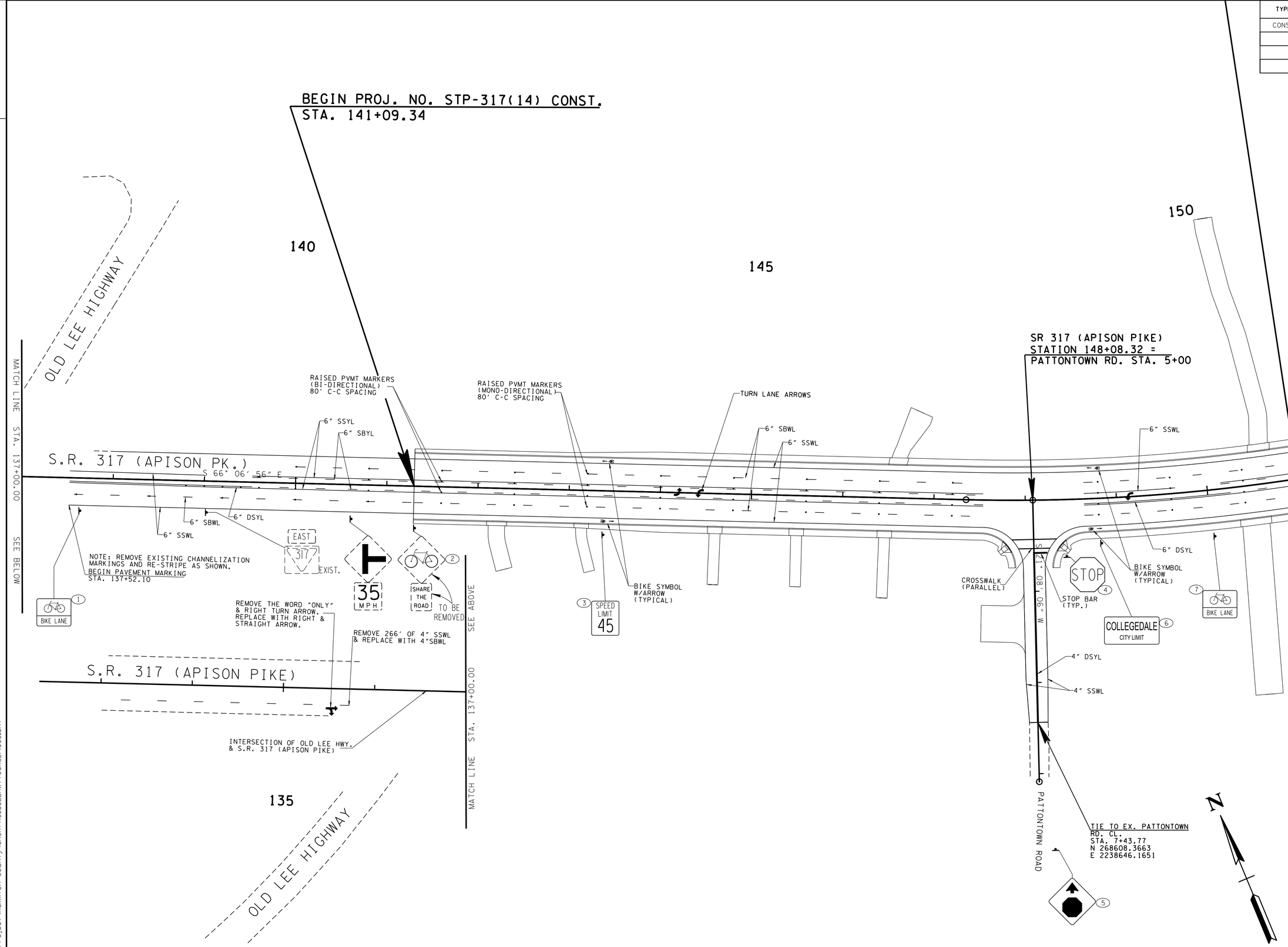
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56 |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.141+30 TO STA.151+00

SCALE: 1"= 50'

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST | 2014 | STP/NH-317(14) | 56A |
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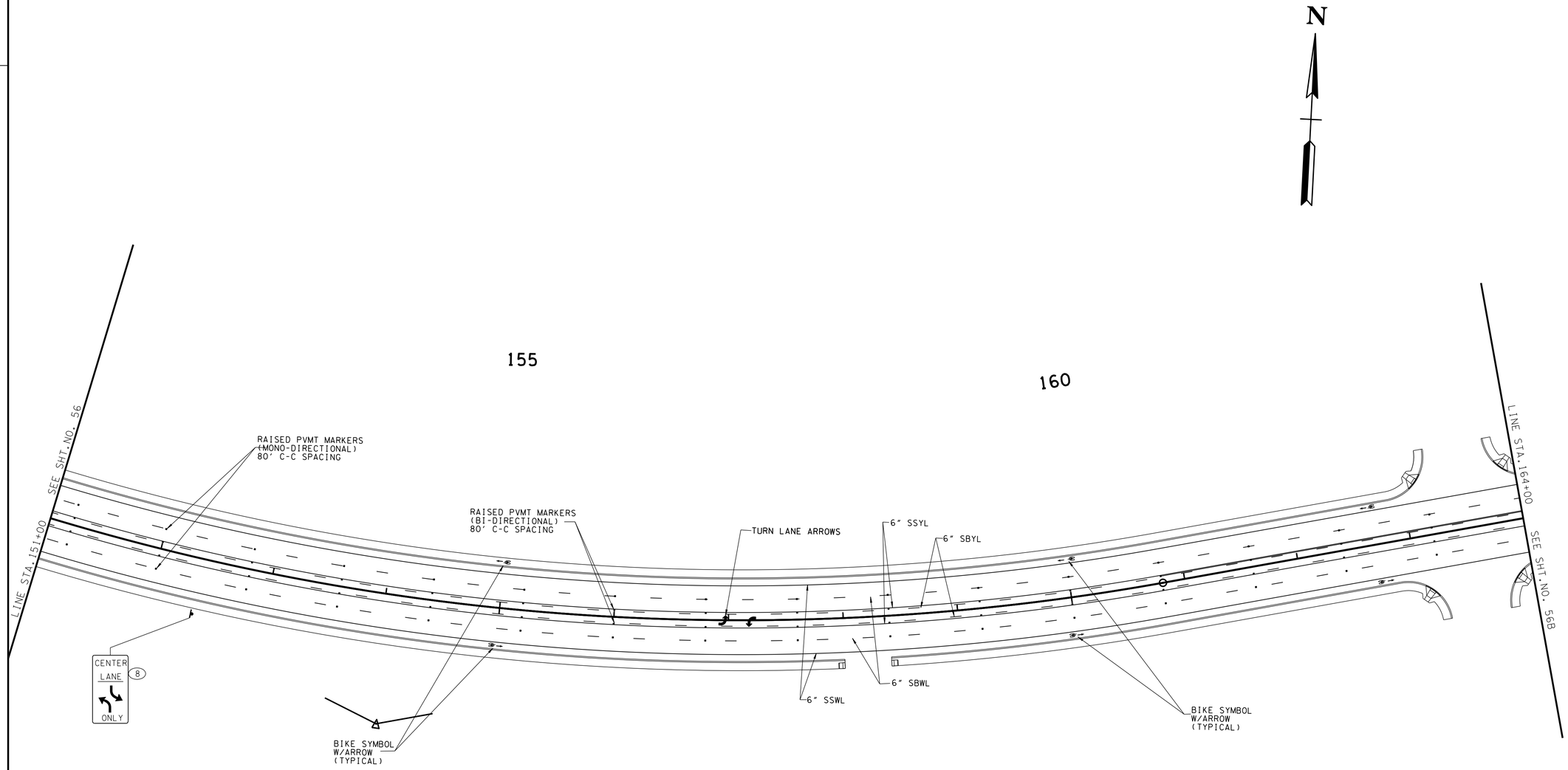
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA. 151+00 TO STA. 164+00

SCALE: 1"= 50'

8-JUN-2014 08:22
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST | 2014 | STP/NH-317(14) | 56B |
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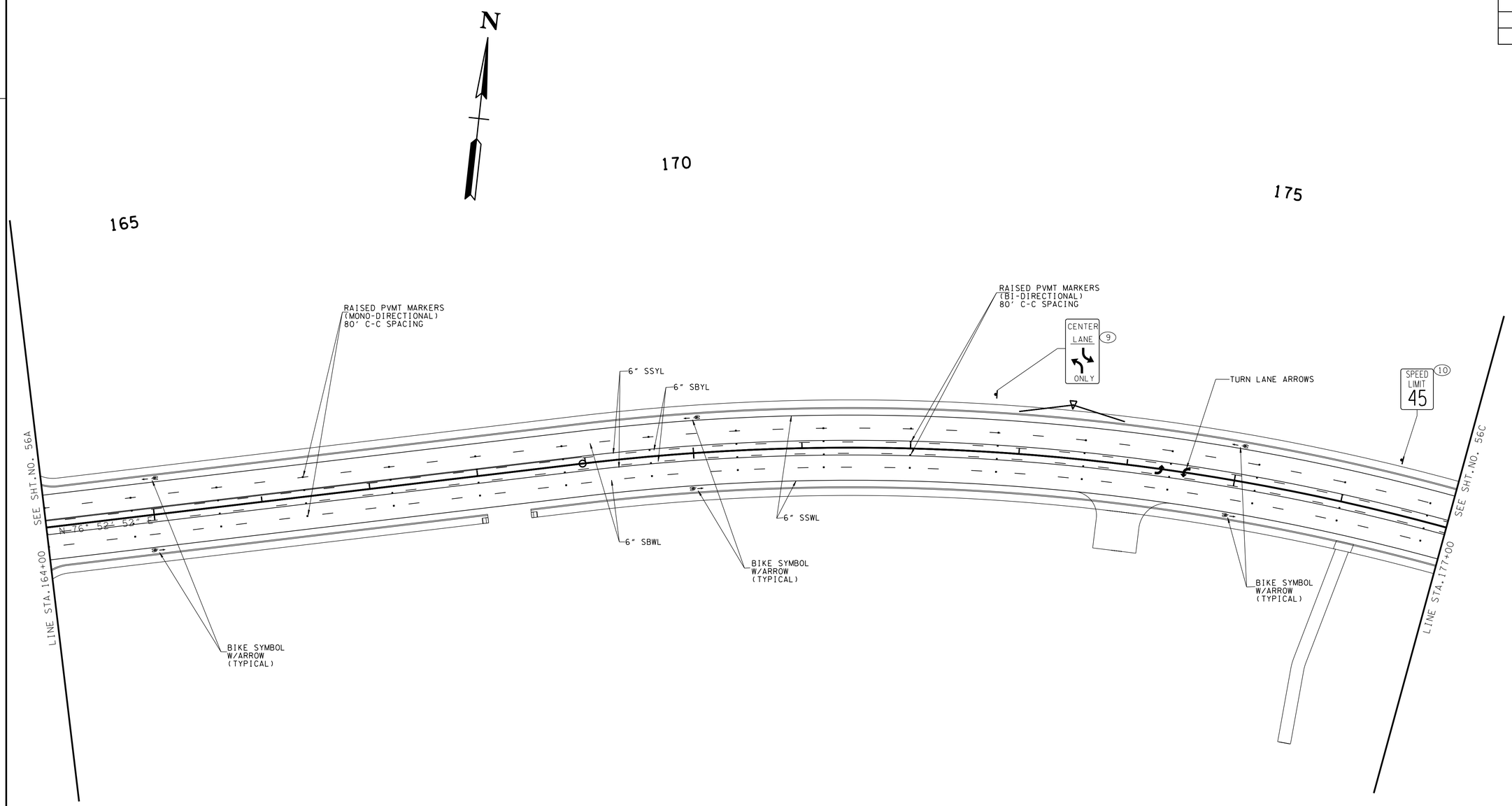


**UNOFFICIAL SET**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.164+00 TO STA.177+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56C |
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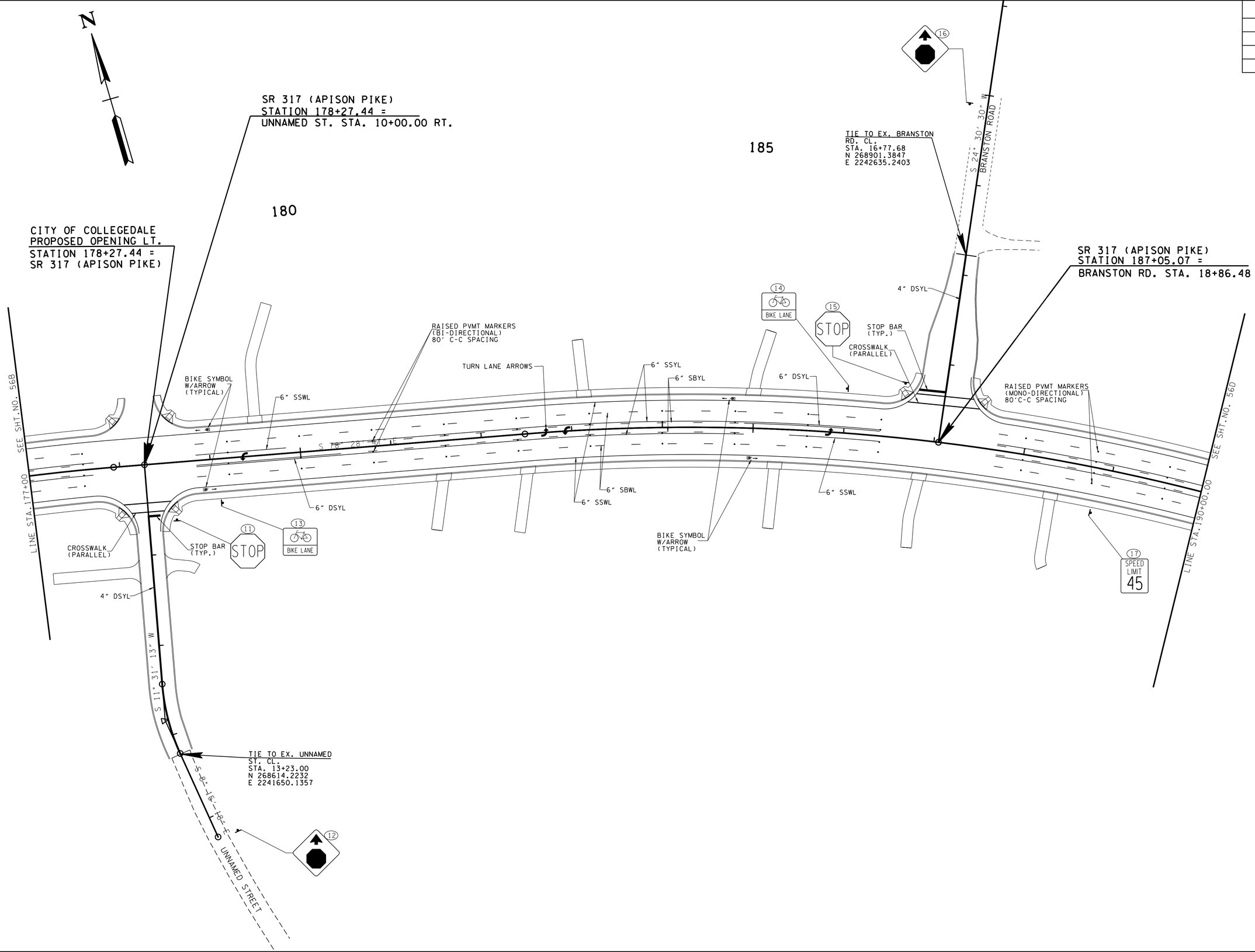




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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.177+00 TO STA.190+00

SCALE: 1"= 50'

8-JUN-2014 08:22
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56D |
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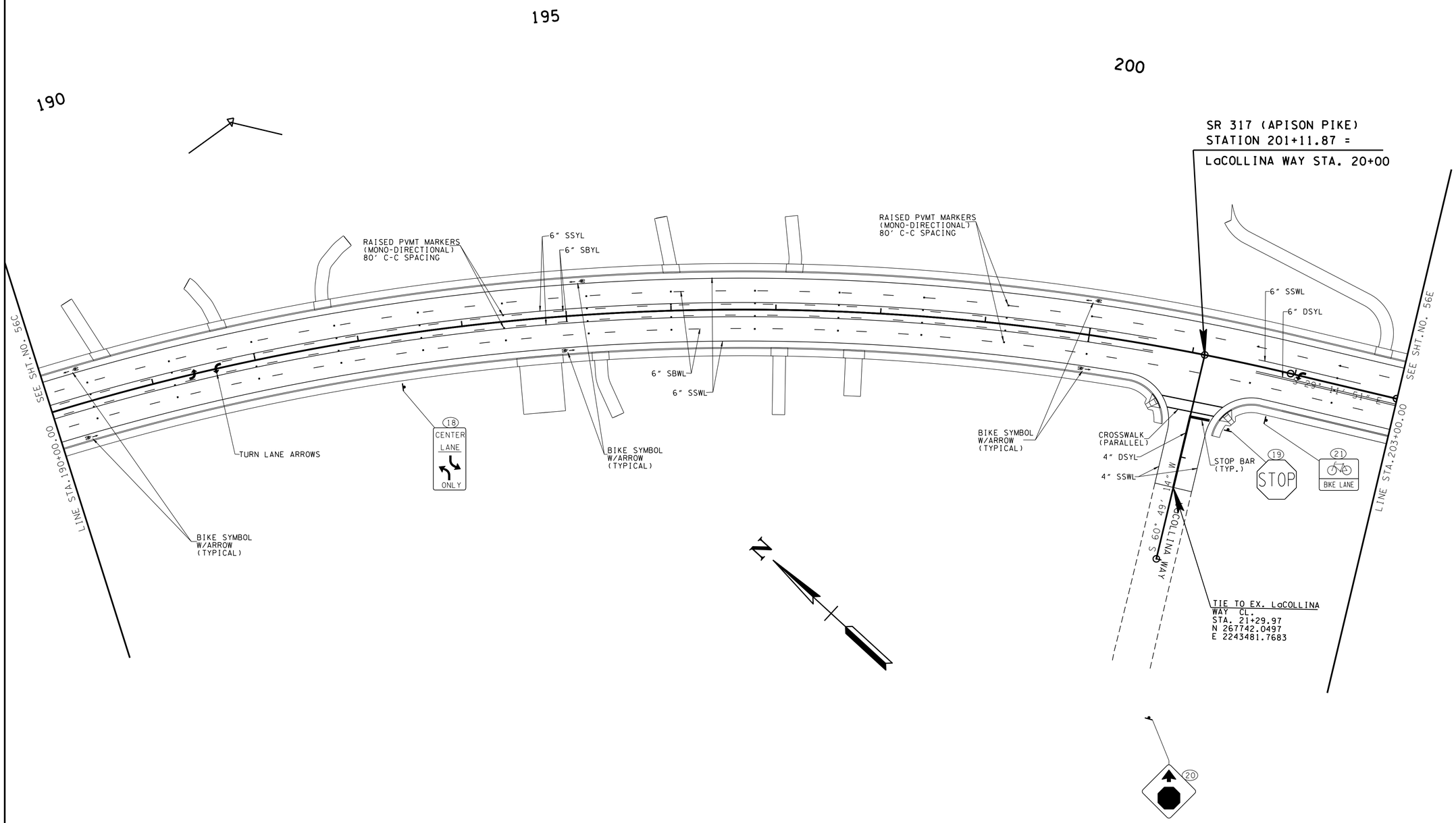
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA. 190+00 TO STA. 203+00

SCALE: 1"= 50'

8-JUN-2014 08:22
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56E |
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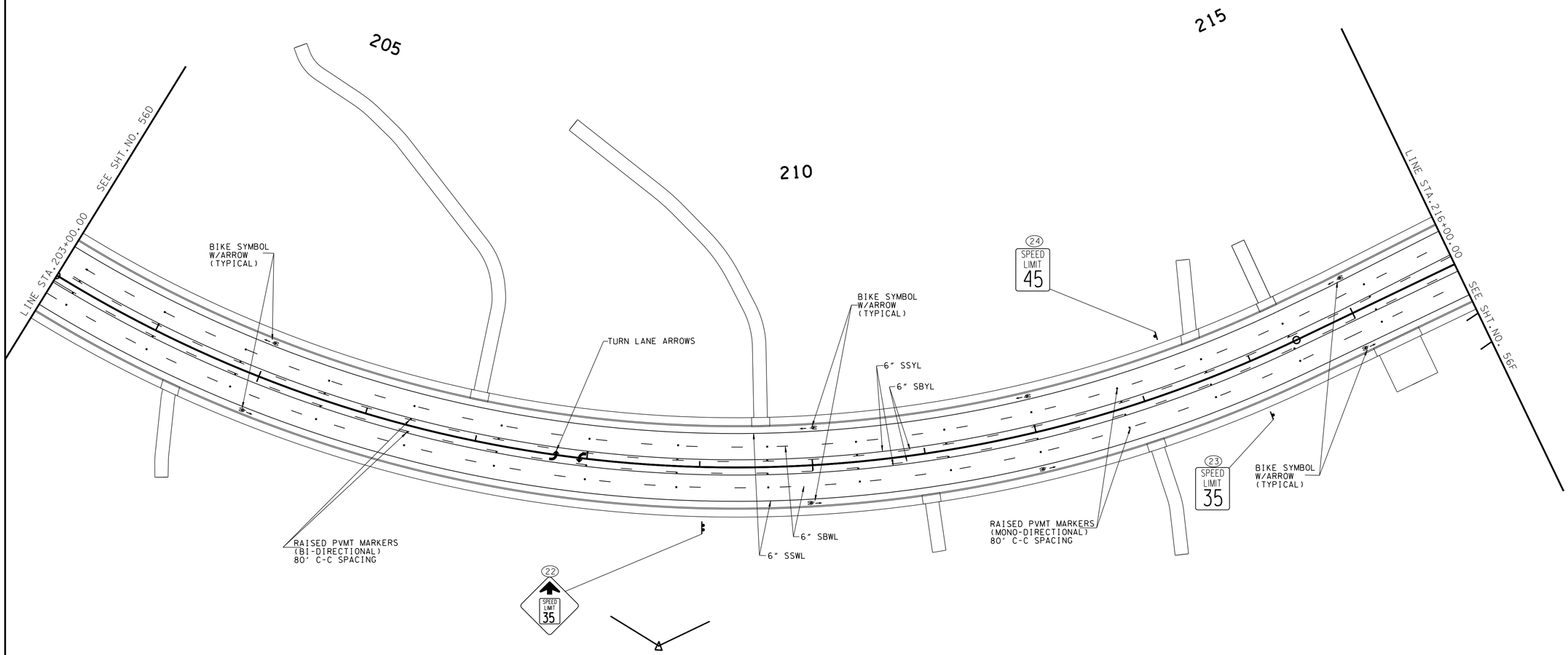


**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.203+00 TO STA.216+00

SCALE: 1"= 50'

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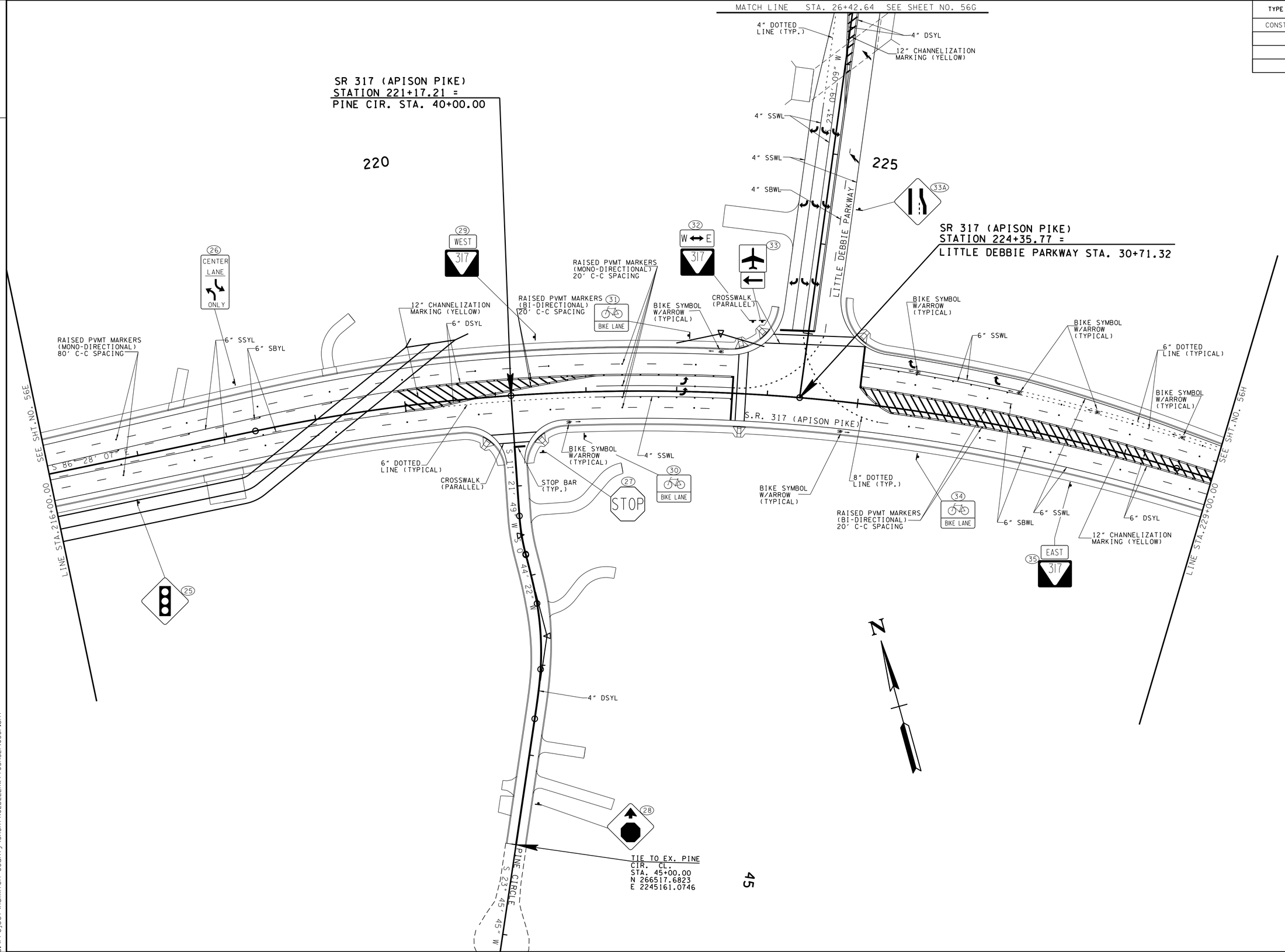
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56F |

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**NOT FOR BIDDING**

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.216+00 TO STA.229+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56G |
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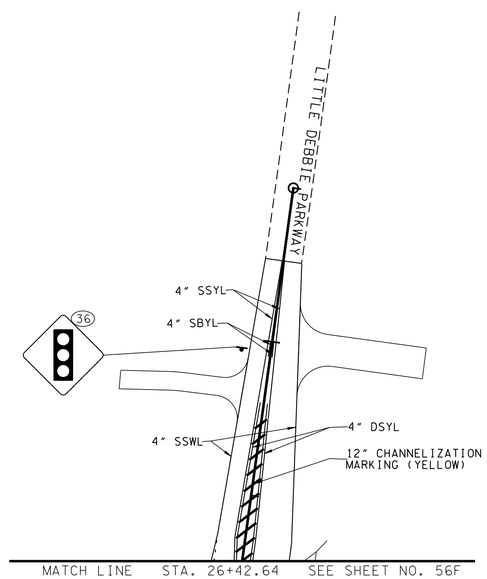




**UNOFFICIAL SET**

**NOT FOR BIDDING**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.26+42 TO STA.24+47

SCALE: 1"= 50'

8-JUN-2014 08:22
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56H |
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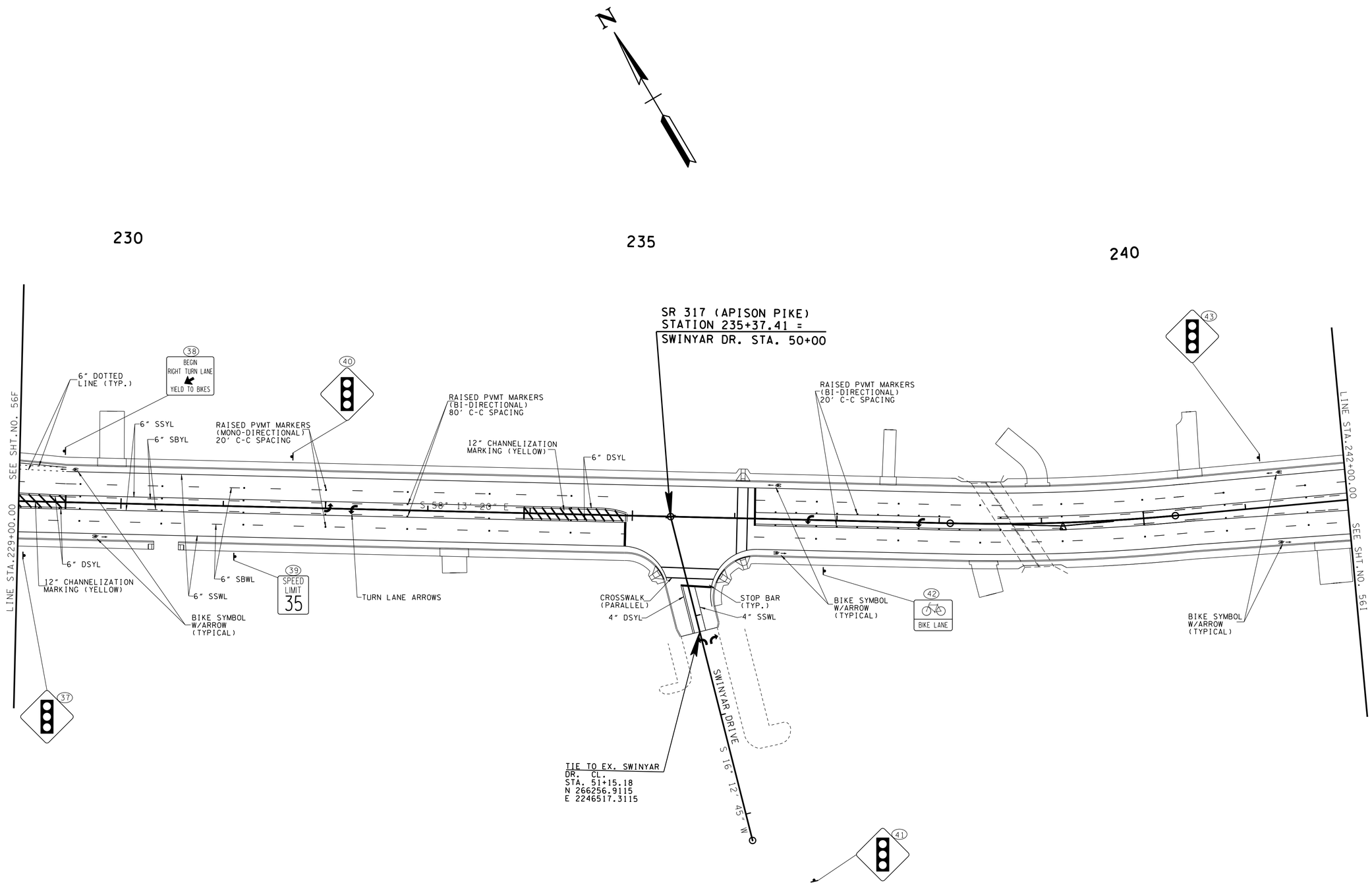
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




# UNOFFICIAL SET

## NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.229+00 TO STA.242+00

SCALE: 1"= 50'

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 561 |
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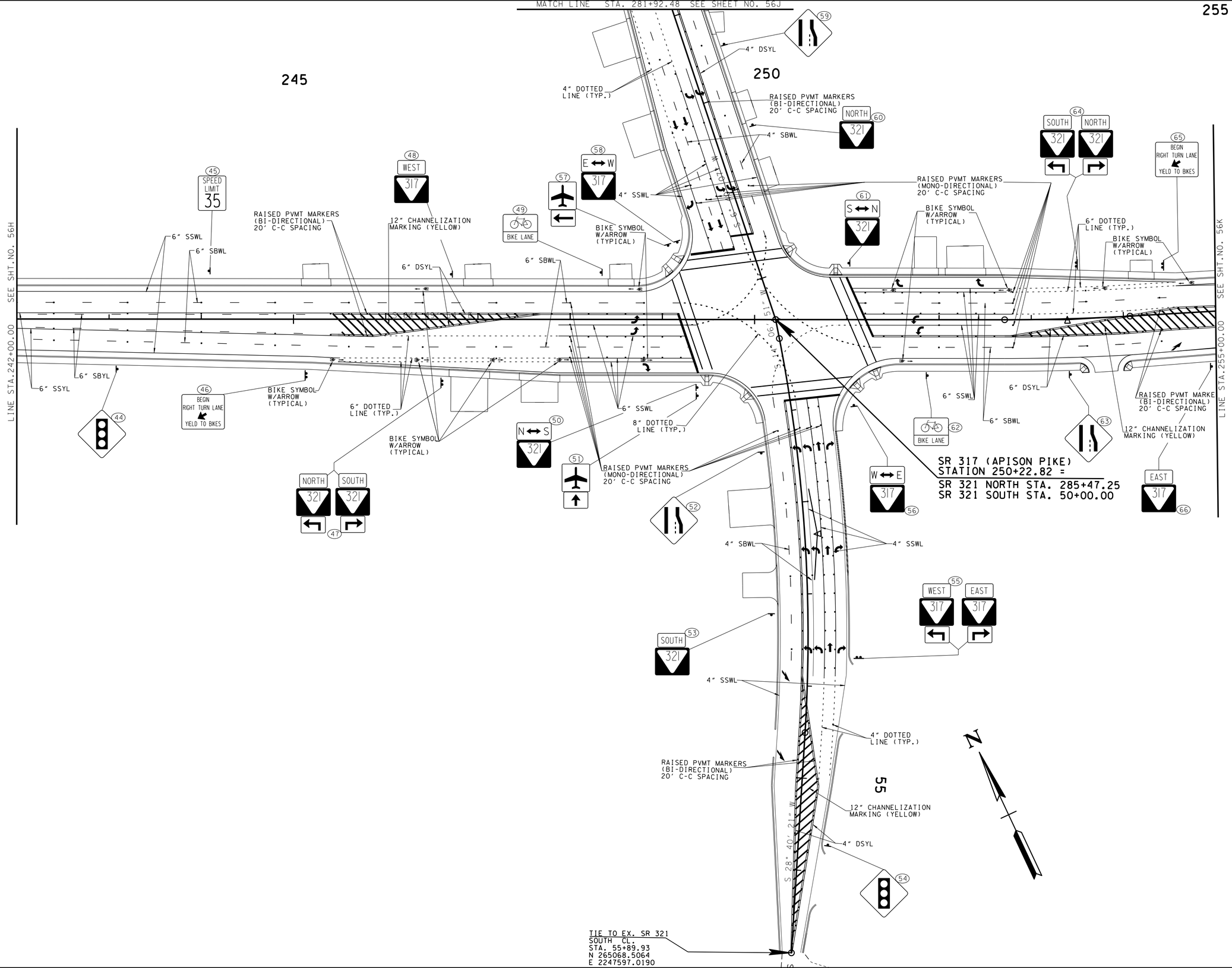


**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.242+00 TO STA.255+00

SCALE: 1"= 50'

8-JUN-2014 08:22
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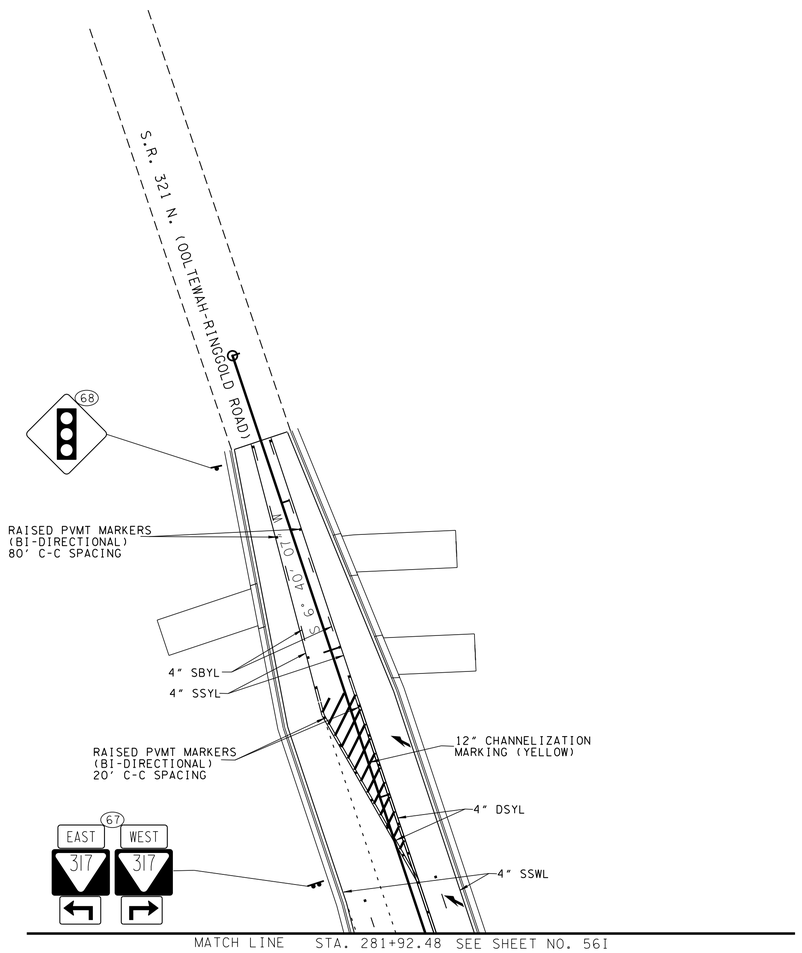
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56J |
| | | | |
| | | | |
| | | | |

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




280

**UNOFFICIAL SET**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.281+92 TO STA.278+57

SCALE: 1"= 50'

8-JUN-2014 08:22
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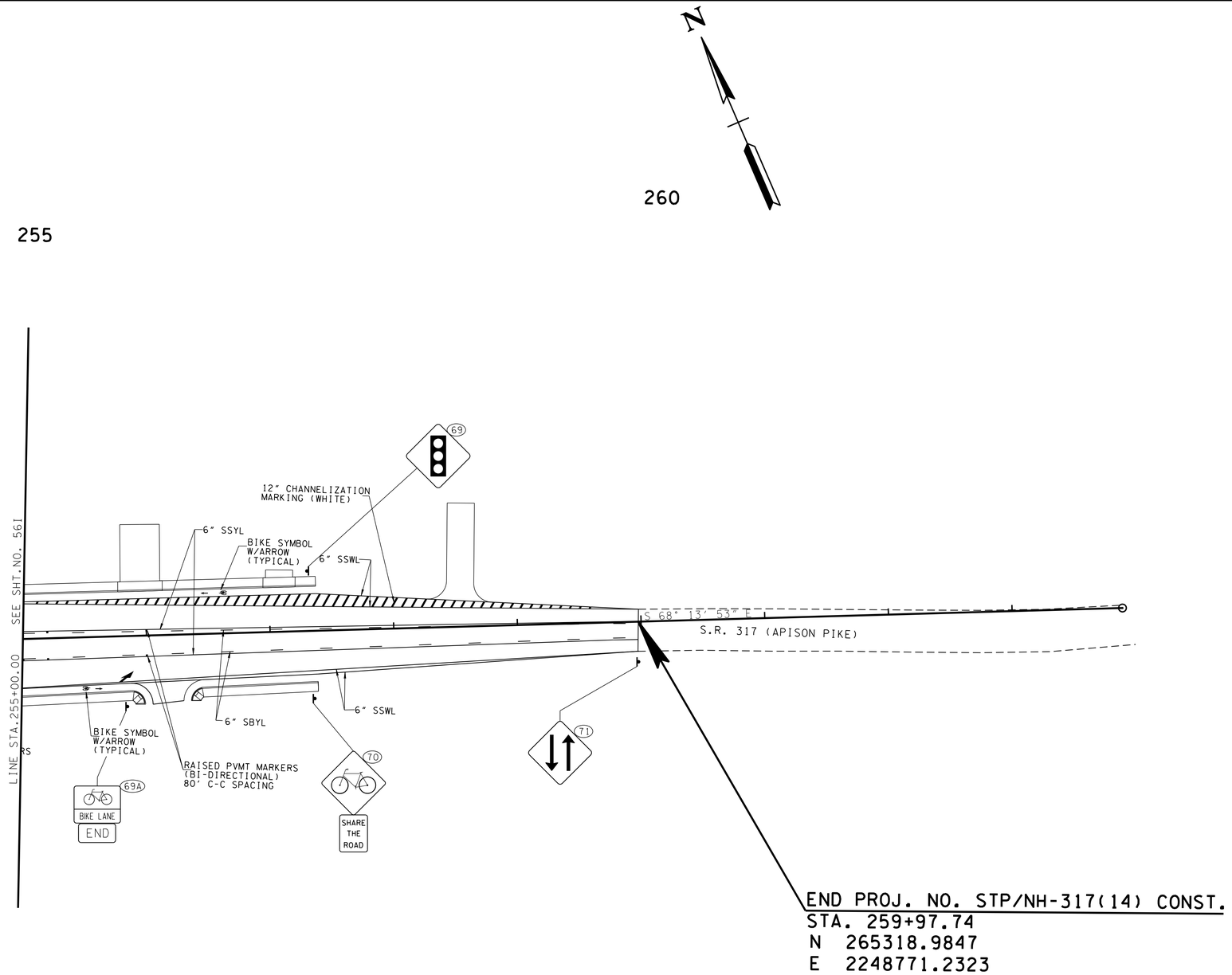
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 56K |
| | | | |
| | | | |
| | | | |

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




END PROJ. NO. STP/NH-317(14) CONST.
STA. 259+97.74
N 265318.9847
E 2248771.2323

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGNING & MARKING DETAILS

STA.255+00 TO STA.263+89

SCALE: 1"= 50'

8-JUN-2014 08:22
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ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 57 |

| 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. | | |
| 3 | R2-1 | | 30" | 36" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 10 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 17 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 24 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 23 | R2-1 | | 30" | 36" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 39 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 45 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 4 | R1-1 | | 36" | 36" | | | | | | | | | WHITE (REF.) | RED (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 11 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 15 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 19 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 27 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 5 | W3-1 | | 36" | 36" | | | | | | | | | (ARROW) BLACK (STOP) RED (REF.) | YELLOW (FLOR.) | 0.100" SHEET ALUMINUM | P8 | h =13'-6" | | | | 7'-0" | |
| 12 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 16 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 20 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 28 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 25 | W3-3 | | 36" | 36" | | | | | | | | | RED (REF.) GREEN (REF.) | YELLOW (FLOR.) | 0.100" SHEET ALUMINUM | P8 | h =13'-6" | | | | 7'-0" | |
| 36 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 37 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 40 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 41 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 43 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 44 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 54 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 68 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 69 | | | | | | | | | | | | | | | | | h =13'-6" | | | | | |
| 33A | W4-2 | | 48" | 48" | | | | | | | | | BLACK | YELLOW (FLOR.) | 0.100" SHEET ALUMINUM | U3 | $h_1$=14'-0" $h_2$=14'-6" | | | | 7'-0" | |
| 52 | | | | | | | | | | | | | | | | | $h_1$=14'-0" $h_2$=14'-6" | | | | | |
| 59 | | | | | | | | | | | | | | | | | $h_1$=14'-0" $h_2$=14'-6" | | | | | |
| 63 | | | | | | | | | | | | | | | | | $h_1$=14'-0" $h_2$=14'-6" | | | | | |
| 71 | W6-3 | | 36" | 36" | | | | | | | | | BLACK | YELLOW (FLOR.) | 0.100" SHEET ALUMINUM | P8 | h =13'-6" | | | | 7'-0" | |
| 22 | W3-5 | | 48" | 48" | | | | | | | | | BLACK | WHITE (REF.) | 0.100" SHEET ALUMINUM | U3 | $h_1$=14'-0" $h_2$=14'-6" | | | | 7'-0" | |
| | | | | | | | | | | | | | | | | | $h_1$=14'-0" $h_2$=14'-6" | | | | | |
| | | | | | | | | | | | | | | | | | $h_1$=14'-0" $h_2$=14'-6" | | | | | |
| 8 | R3-9B | | 24" | 36" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 9 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 18 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 26 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 38 | R4-4 | | 36" | 30" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-0" | | | | 7'-0" | |
| 46 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 65 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 70 | W11-1 | | 36" | 36" | | | | | | | | | BLACK | YELLOW (FLOR.) | 0.100" SHEET ALUMINUM | P5 | h =12'-6" | | | | 7'-0" | REQUIRES SLIP BASE ITEM NO. 713-11.21 STD DWG. T-S-23A |
| | W16-IP | | 18" | 24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | | | | | | | |

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

8-JUN-2014 08:22
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 57A |

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

| SIGN NO | LEGEND | SHEET NO | SIZE | | | | COPY | | | | SHIELD | ARROW | SIGN FACE | | | STEEL DESIGN (BREAK-AWAY) | | | | | MINIMUM VERTICAL CLEARANCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LENGTH | HEIGHT | RADIUS | BORDER WIDTH | CAPITAL | LOWER CASE | NUMERAL | SERIES | | | COPY | BACKGROUND | MATERIAL | SUPPORT TYPE | SUPPORT LENGTH | FOOTING | CONC. CU. YD. | REIN STEEL LBS. | | |
| 1 | BIKE LANE R3-17 | | 30" | 24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | U3 | h =12'-0" | | | | 7'-0" | |
| 7 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 13 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 14 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 21 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 30 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 31 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 34 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 42 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 49 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 62 | | | | | | | | | | | | | | | | | h =12'-0" | | | | | |
| 51 | I-5<br>M6-3 | | 24"<br>21" | 24"<br>15" | | | | | | | | | GREEN (REF.) | WHITE (REF.) | 0.080" SHEET ALUMINUM | U3 | h =13'-6" | | | | 7'-0" | |
| 33 | I-5 | | 24" | 24" | | | | | | | | | GREEN (REF.) | WHITE (REF.) | 0.080" SHEET ALUMINUM | U3 | h =13'-6" | | | | 7'-0" | |
| 57 | M6-1 | | 21" | 15" | | | | | | | | | | | | | h =13'-6" | | | | | |
| 53 | SOUTH 321<br>M3-1<br>TN-6B | | 24"<br>30" | 12"<br>24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 60 | NORTH 321<br>M3-3<br>TN-6B | | 24"<br>30" | 12"<br>24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 35 | EAST 317<br>M3-2<br>TN-6B | | 24"<br>30" | 12"<br>24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 66 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 29 | WEST 317<br>M3-4<br>TN-6B | | 24"<br>30" | 12"<br>24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =12'-6" | | | | 7'-0" | |
| 48 | | | | | | | | | | | | | | | | | h =12'-6" | | | | | |
| 61 | S ↔ N 321<br>TN-39<br>TN-6B | | 30"<br>30" | 15"<br>24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =13'-0" | | | | 7'-0" | |
| 50 | N ↔ S 321<br>TN-39<br>TN-6B | | 30"<br>30" | 15"<br>24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =13'-0" | | | | 7'-0" | |
| 58 | E ↔ W 317<br>TN-39<br>TN-6B | | 30"<br>30" | 15"<br>24" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =13'-0" | | | | 7'-0" | |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

8-JUN-2014 08:22
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 57B |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | W↔E TN-39 | | 30" | 15" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h =13'-0" | | | | 7'-0" | |
| 56 | 317 TN-6B | | 30" | 24" | | | | | | | | | | | | | h =13'-0" | | | | | |
| 47 | M3-1 NORTH SOUTH M3-3<br>TN-6B 321 321 TN-6B<br>M5-1 ↰ ↱ M5-1 | | 24"<br>30"<br>21" | 12"<br>24"<br>15" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | $h_1$=14'-6"<br>$h_2$=15'-0" | | | | 7'-0" | |
| 64 | M3-3 SOUTH NORTH M3-1<br>TN-6B 321 321 TN-6B<br>M5-1 ↰ ↱ M5-1 | | 24"<br>30"<br>21" | 12"<br>24"<br>15" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | $h_1$=14'-6"<br>$h_2$=15'-0" | | | | 7'-0" | |
| 67 | M3-2 EAST WEST M3-4<br>TN-6B 317 317 TN-6B<br>M5-1 ↰ ↱ M5-1 | | 24"<br>30"<br>21" | 12"<br>24"<br>15" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | $h_1$=14'-6"<br>$h_2$=15'-0" | | | | 7'-0" | |
| 55 | M3-4 WEST EAST M3-2<br>TN-6B 317 317 TN-6B<br>M5-1 ↰ ↱ M5-1 | | 24"<br>30"<br>21" | 12"<br>24"<br>15" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | $h_1$=14'-6"<br>$h_2$=15'-0" | | | | 7'-0" | |
| 6 | COLLEGEDALE CITY LIMITS TN-3 | | 54" | 24" | | | | | | | | | WHITE (REF.) | GREEN (REF.) | 0.100" SHEET ALUMINUM | U3 | $h_1$=12'-0"<br>$h_2$=12'-6" | | | | 7'-0" | |
| 69A | BIKE LANE ENDS R3-17 | | 30"<br>24" | 24"<br>8" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P8 | h=12'-0" | | | | 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.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

6/19/2014 3:38:57 PM
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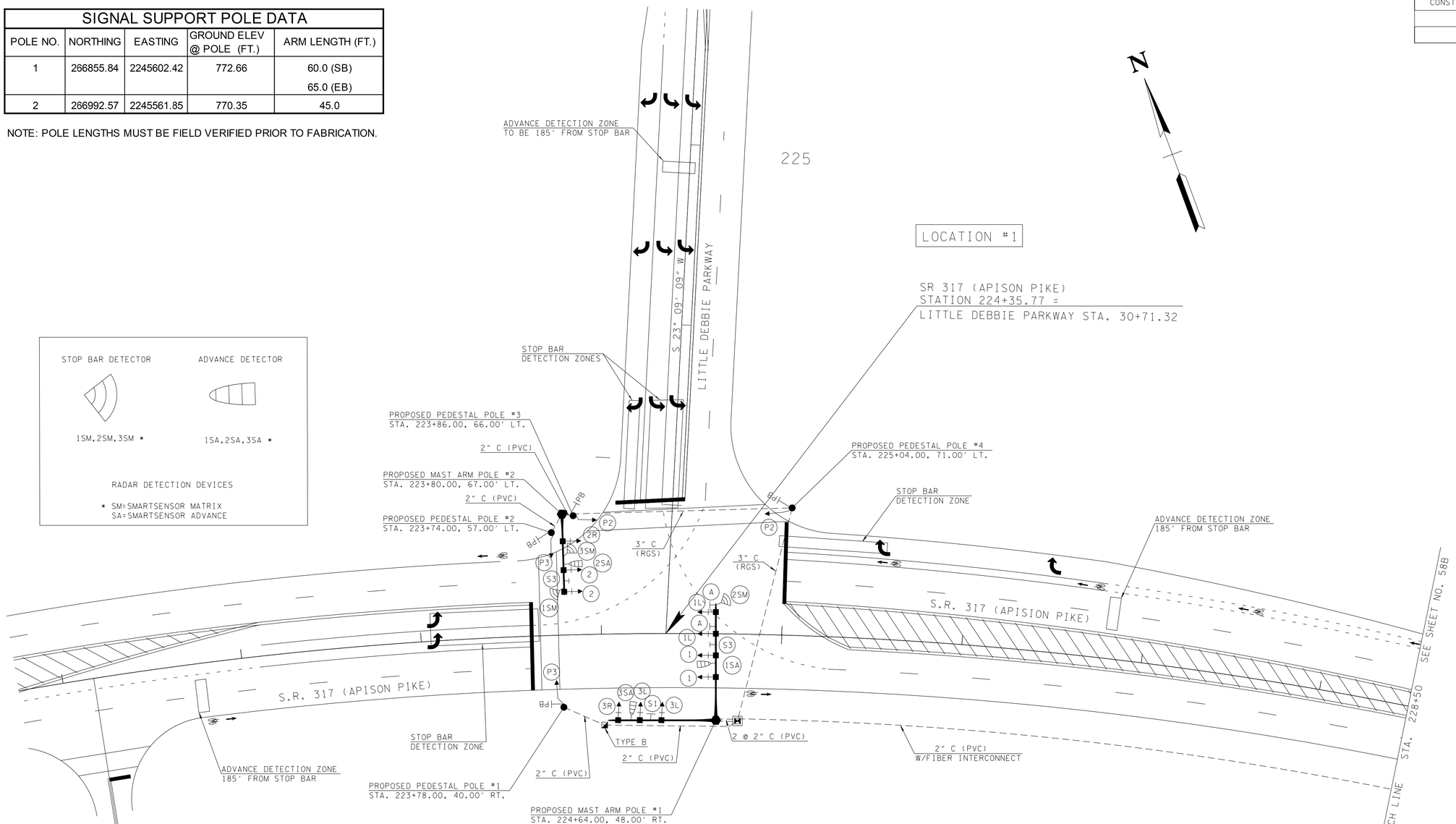
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 46 |
| CONST. | 2014 | STP/NH-317(14) | 58 |
| | | | |
| | | | |

## SIGNAL SUPPORT POLE DATA

| POLE NO. | NORTHING | EASTING | GROUND ELEV @ POLE (FT.) | ARM LENGTH (FT.) |
|---|---|---|---|---|
| 1 | 266855.84 | 2245602.42 | 772.66 | 60.0 (SB)<br>65.0 (EB) |
| 2 | 266992.57 | 2245561.85 | 770.35 | 45.0 |

NOTE: POLE LENGTHS MUST BE FIELD VERIFIED PRIOR TO FABRICATION.




**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
SIGNAL LAYOUT
INTERSECTION OF
SR-317 (APISON PK)
AT LITTLE DEBBIE PKWY

SCALE: 1"=30 '

6/19/2014 3:12:30 PM
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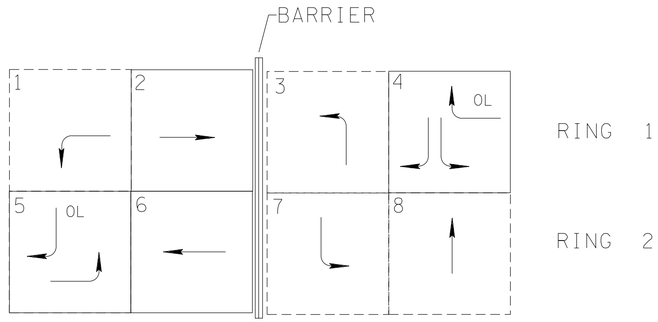
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 58A |
| | | | |
| | | | |
| | | | |




## NEMA EIGHT PHASE DESIGNATIONS

ACTIVE PHASE

INACTIVE PHASE (NOT USED)

- OPERATION IS DUAL ENTRY MODE, FULL SKIP CAPABILITY
- SINGLE DIRECTION, LAGGING LEFT TURN PHASES ARE NOT ALLOWED
- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

## BASIC OR SEMI - ACTUATED TIMING (SECS)

| PHASE | INITIAL INTERVAL | VEHICLE INTERVAL | MAX I | MAX II | CLEARANCE | | PEDESTRIAN | | RECALL TO | MEMORY POSITION (1) | LEFT TURN OPERATION (2) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YELLOW | ALL RED | WALK | FLASHING DONT WALK | | | |
| 5 | 10.0 | 1.5 | 16.0 | - | 4.5 | 2.5 | - | - | NONE | L | PROT |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |

(1) NL = NONLOCK
L = LOCK

(2) PERM = PERMITTED
PROT = PROTECTED
P + P = PROT/PERM

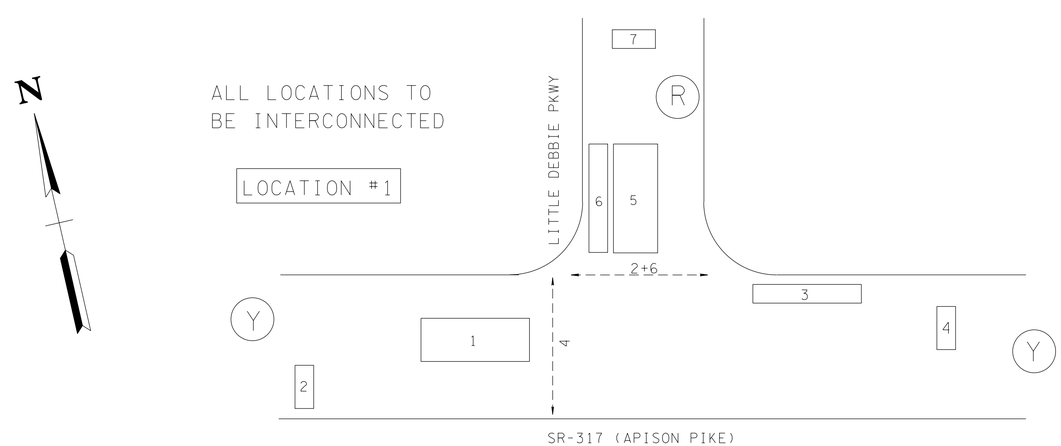
## VOLUME - DENSITY TIMING (SECS)

| PHASE | INITIAL INTERVAL | ADDED INITIAL PER ACTUATION | PASSAGE TIME | MINIMUM GAP | TIME BEFORE REDUCTION | TIME TO REDUCE | MAX I | MAX II | CLEARANCE | | PEDESTRIAN | | RECALL TO | MEMORY POSITION (1) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | YELLOW | ALL RED | WALK | FLASHING DONT WALK | | |
| 2 | 10.0 | 2.4 | 4.0 | 4.0 | 10.0 | 20.0 | 81.5 | - | 4.0 | 2.0 | 7.0 | 31.0 | MAX | L |
| 6 | 10.0 | 2.4 | 4.0 | 4.0 | 10.0 | 20.0 | 58.5 | - | 4.0 | 1.5 | 7.0 | 31.0 | MAX | L |
| 4 | 10.0 | 2.4 | 4.0 | 4.0 | 10.0 | 20.0 | 31.5 | - | 4.5 | 2.5 | 7.0 | 23.5 | MIN | L |

THESE TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY THE CONTRACTOR BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.

OFFSET=10 SEC.
APPROX. 1101'
TO LOCATION #2

## DETECTION LOOP DIAGRAM




FLASHING OPERATION (Y) OR (R)

DETECTION LOOP NUMBERING

PEDESTRIAN MOVEMENTS [<--------->] AND ASSOCIATED PHASE

## RADAR DETECTOR TARGET ASSIGNMENT

| TARGET AREA # | DETECTOR # | TARGET AREA (FT) | ASSOC. Ø | COMMENTS |
|---|---|---|---|---|
| 1 | 1SM | | 5 | |
| 2 | 1SA | | 2 | |
| 3 | 2SM | | 6 | |
| 4 | 2SA | | 6 | |
| 5 | 3SM | | 4 | |
| 6 | 3SM | | 4 | |
| 7 | 3SA | | 4 | |
| | | | | |

SM=SMARTSENSOR MATRIX
SA=SMARTSENSOR ADVANCE

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

INTERSECTION OF SR-317 AND LITTLE DEBBIE PKWY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASING, TIMING, DETECTOR ASSIGNMENT

EIGHT PHASE

6/19/2014 3:13:14 PM
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\CONST_TURN-IN\TEMP\058A.SHT

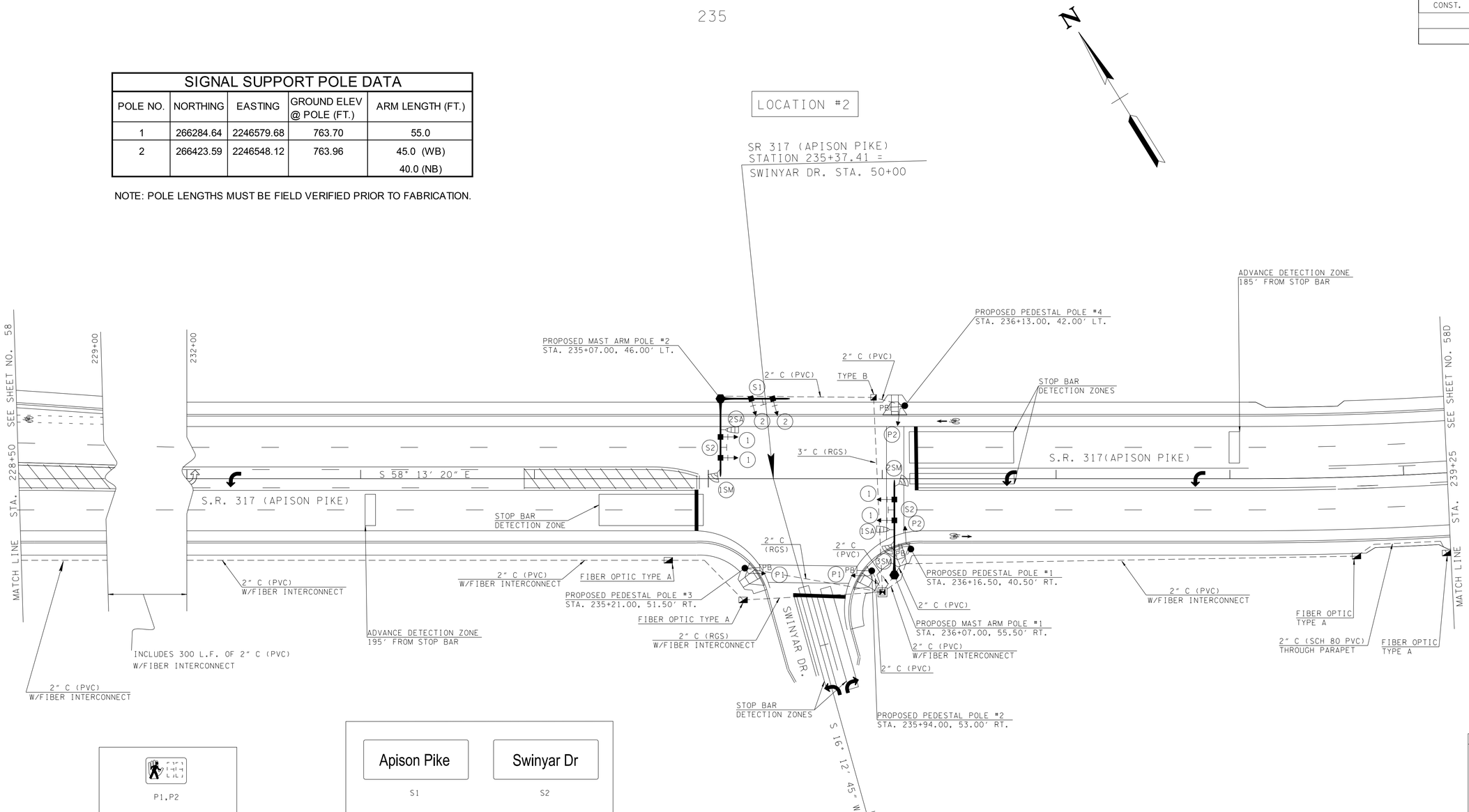
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 46A |
| CONST. | 2014 | STP/NH-317(14) | 58B |
| | | | |
| | | | |

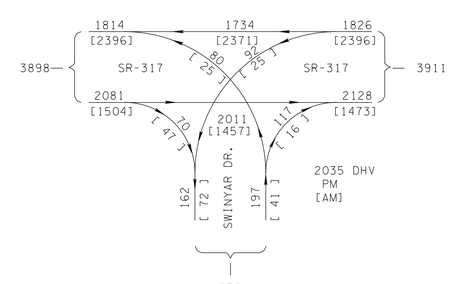
235

## SIGNAL SUPPORT POLE DATA

| POLE NO. | NORTHING | EASTING | GROUND ELEV @ POLE (FT.) | ARM LENGTH (FT.) |
|---|---|---|---|---|
| 1 | 266284.64 | 2246579.68 | 763.70 | 55.0 |
| 2 | 266423.59 | 2246548.12 | 763.96 | 45.0 (WB)<br>40.0 (NB) |

NOTE: POLE LENGTHS MUST BE FIELD VERIFIED PRIOR TO FABRICATION.




P1,P2

PROPOSED COUNTDOWN PEDESTRIAN SIGNAL HEAD

| Apison Pike | Swinyar Dr |
|---|---|
| S1 | S2 |

SEE SIGN SCHEDULE ON SHEET 57B FOR SIGN DETAILS

R Y G

1,2

PROPOSED SIGNAL HEADS W/BACKPLATES

STOP BAR DETECTOR — 1SM,2SM,3SM *

ADVANCE DETECTOR — 1SA *

RADAR DETECTION DEVICES

* SM=SMARTSENSOR MATRIX
SA=SMARTSENSOR ADVANCE

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
SIGNAL LAYOUT
INTERSECTION OF
SR-317 (APISON PK)
AT SWINYAR DR,

SCALE: 1"=30 '

6/19/2014 3:13:40 PM
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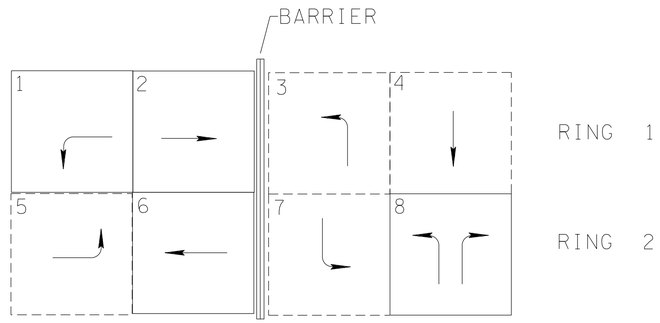
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 58C |
| | | | |
| | | | |
| | | | |




## NEMA EIGHT PHASE DESIGNATIONS

ACTIVE PHASE

INACTIVE PHASE (NOT USED)

- OPERATION IS DUAL ENTRY MODE, FULL SKIP CAPABILITY
- SINGLE DIRECTION, LAGGING LEFT TURN PHASES ARE NOT ALLOWED
- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

## BASIC OR SEMI - ACTUATED TIMING (SECS)

| PHASE | INITIAL INTERVAL | VEHICLE INTERVAL | MAX I | MAX II | CLEARANCE | | PEDESTRIAN | | RECALL TO | MEMORY POSITION (1) | LEFT TURN OPERATION (2) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YELLOW | ALL RED | WALK | FLASHING DONT WALK | | | |
| 8 | 8.0 | 1.5 | 37.0 | - | 4.0 | 2.5 | 7.0 | 20.0 | MIN | L | PROT |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |

(1) NL = NONLOCK
L = LOCK

(2) PERM = PERMITTED
PROT = PROTECTED
P + P = PROT/PERM

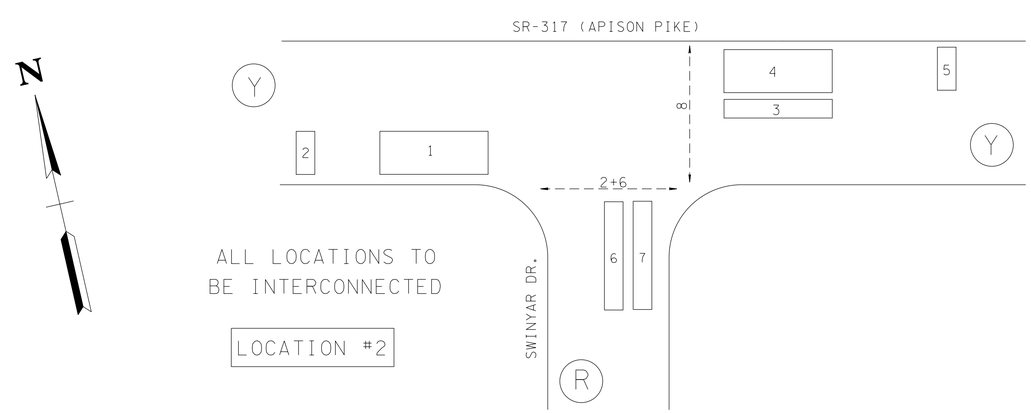
## VOLUME - DENSITY TIMING (SECS)

| PHASE | INITIAL INTERVAL | ADDED INITIAL PER ACTUATION | PASSAGE TIME | MINIMUM GAP | TIME BEFORE REDUCTION | TIME TO REDUCE | MAX I | MAX II | CLEARANCE | | PEDESTRIAN | | RECALL TO | MEMORY POSITION (1) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | YELLOW | ALL RED | WALK | FLASHING DONT WALK | | |
| 2 | 10.0 | 2.4 | 4.2 | 4.2 | 10.0 | 20.0 | 76.5 | - | 4.0 | 2.0 | 7.0 | 16.0 | MAX | L |
| 6 | 10.0 | 2.4 | 4.0 | 4.0 | 10.0 | 20.0 | 76.5 | - | 4.0 | 2.0 | 7.0 | 16.0 | MAX | L |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

THESE TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY THE CONTRACTOR BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.

OFFSET=100 SEC.
APPROX. 1485'
TO LOCATION #3

## DETECTION LOOP DIAGRAM




ALL LOCATIONS TO BE INTERCONNECTED

LOCATION #2

FLASHING OPERATION (Y) OR (R)

DETECTION LOOP NUMBERING

PEDESTRIAN MOVEMENTS [<--------->] AND ASSOCIATED PHASE

## RADAR DETECTOR TARGET ASSIGNMENT

| TARGET AREA # | DETECTOR # | TARGET AREA (FT) | ASSOC. Ø | COMMENTS |
|---|---|---|---|---|
| 1 | 1SM | | 2 | |
| 2 | 1SA | | 2 | |
| 3 | 2SM | | 1 | |
| 4 | 2SM | | 6 | |
| 5 | 2SA | | 6 | |
| 6 | 3SM | | 8 | |
| 7 | 3SM | | 8 | |
| | | | | |

SM=SMARTSENSOR MATRIX
SA=SMARTSENSOR ADVANCE

**UNOFFICIAL SET**
**NOT FOR BIDDING**

SEALED BY

INTERSECTION OF SR-317 AND SWINYAR DR.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASING, TIMING, DETECTOR ASSIGNMENT

EIGHT PHASE

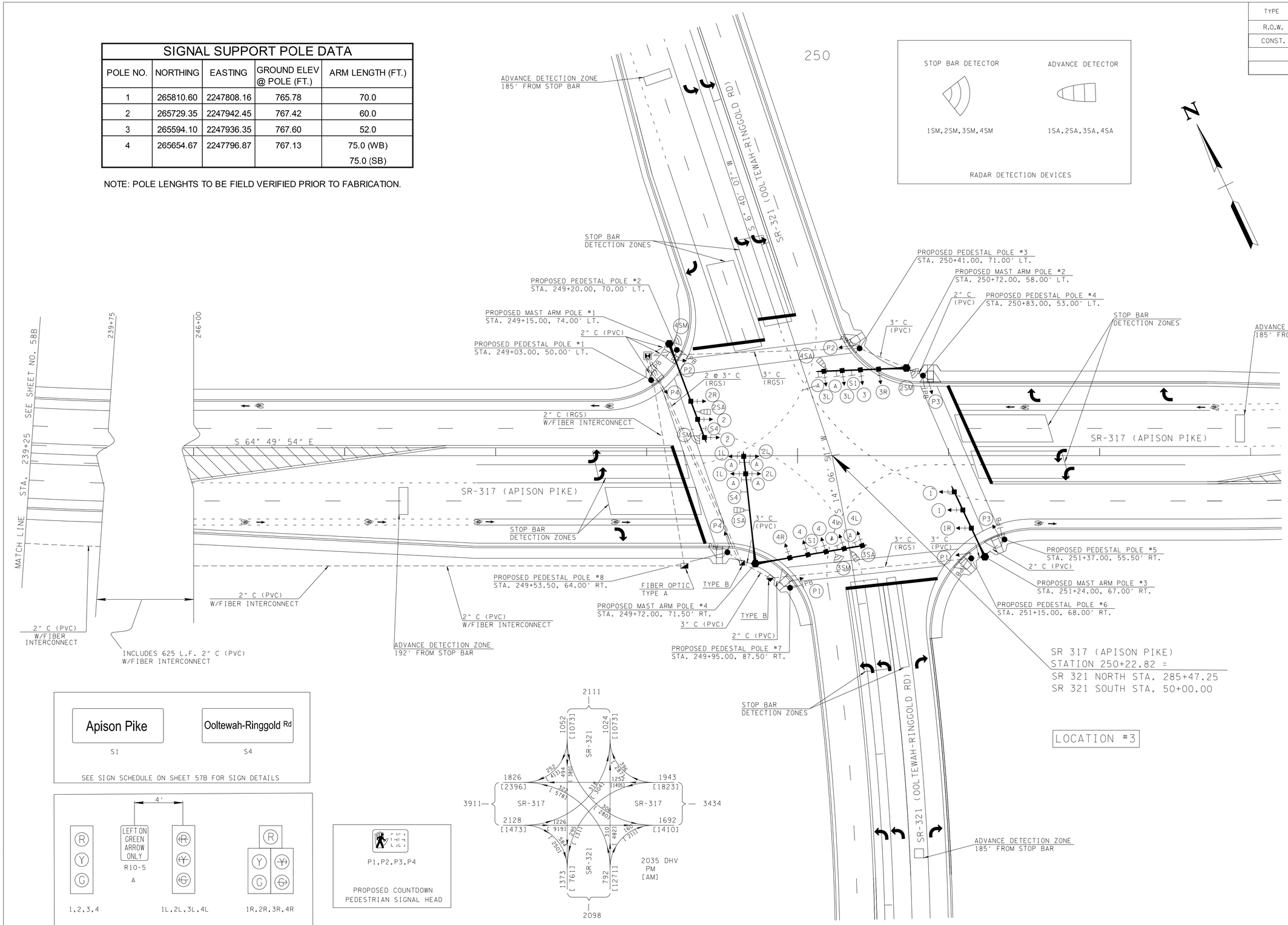
6/19/2014 3:43:3PM
C:\Project\Hamilton County\SR317FROLDLEEHWY70SR32\CONST_TURN-IN\TEMP\058C.SHT

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 46B |
| CONST. | 2014 | STP/NH-317(14) | 58D |
| | | | |
| | | | |

## SIGNAL SUPPORT POLE DATA

| POLE NO. | NORTHING | EASTING | GROUND ELEV @ POLE (FT.) | ARM LENGTH (FT.) |
|---|---|---|---|---|
| 1 | 265810.60 | 2247808.16 | 765.78 | 70.0 |
| 2 | 265729.35 | 2247942.45 | 767.42 | 60.0 |
| 3 | 265594.10 | 2247936.35 | 767.60 | 52.0 |
| 4 | 265654.67 | 2247796.87 | 767.13 | 75.0 (WB)<br>75.0 (SB) |

NOTE: POLE LENGHTS TO BE FIELD VERIFIED PRIOR TO FABRICATION.




UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAL LAYOUT
INTERSECTION OF SR-317 (APISON PK) AT SR-321

SCALE: 1"=30 '

6/9/2014 3:50:01 PM
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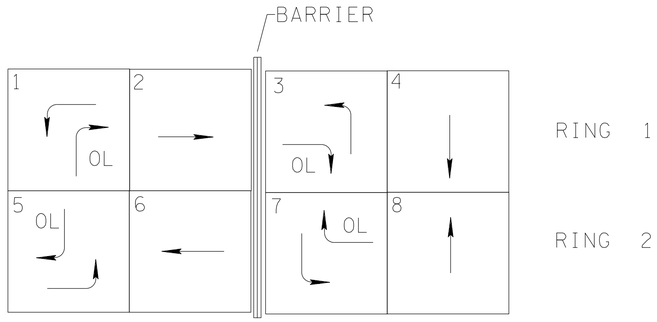
| TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO. |
|---|---|---|

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 58E |
| | | | |
| | | | |
| | | | |




## NEMA EIGHT PHASE DESIGNATIONS

ACTIVE PHASE

INACTIVE PHASE (NOT USED)

- OPERATION IS DUAL ENTRY MODE, FULL SKIP CAPABILITY
- SINGLE DIRECTION, LAGGING LEFT TURN PHASES ARE NOT ALLOWED
- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

## BASIC OR SEMI - ACTUATED TIMING (SECS)

| PHASE | INITIAL INTERVAL | VEHICLE INTERVAL | MAX I | MAX II | CLEARANCE | | PEDESTRIAN | | RECALL TO | MEMORY POSITION (1) | LEFT TURN OPERATION (2) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YELLOW | ALL RED | WALK | FLASHING DONT WALK | | | |
| 1 | 8.0 | 1.5 | 8.0 | - | 4.5 | 2.5 | - | - | NONE | L | PROT |
| 5 | 8.0 | 1.5 | 8.0 | - | 4.5 | 2.5 | - | - | NONE | L | PROT |
| 3 | 8.0 | 1.5 | 8.0 | - | 5.0 | 3.0 | - | - | NONE | L | PROT |
| 7 | 8.0 | 1.5 | 8.0 | - | 5.0 | 3.0 | - | - | NONE | L | PROT |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |

(1) NL = NONLOCK
L = LOCK

(2) PERM = PERMITTED
PROT = PROTECTED
P + P = PROT/PERM

## VOLUME - DENSITY TIMING (SECS)

| PHASE | INITIAL INTERVAL | ADDED INITIAL PER ACTUATION | PASSAGE TIME | MINIMUM GAP | TIME BEFORE REDUCTION | TIME TO REDUCE | MAX I | MAX II | CLEARANCE | | PEDESTRIAN | | RECALL TO | MEMORY POSITION (1) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | YELLOW | ALL RED | WALK | FLASHING DONT WALK | | |
| 2 | 10.0 | 2.4 | 4.2 | 4.2 | 10.0 | 20.0 | 41.0 | - | 4.5 | 2.5 | 7.0 | 33.0 | MAX | L |
| 6 | 10.0 | 2.4 | 4.0 | 4.0 | 10.0 | 20.0 | 41.0 | - | 4.5 | 2.5 | 7.0 | 33.0 | MAX | L |
| 4 | 10.0 | 2.4 | 4.0 | 4.0 | 10.0 | 20.0 | 40.5 | - | 4.0 | 2.5 | 7.0 | 33.5 | MAX | L |
| 8 | 10.0 | 2.4 | 4.0 | 4.0 | 10.0 | 20.0 | 40.5 | - | 4.0 | 2.5 | 7.0 | 31.0 | MAX | L |

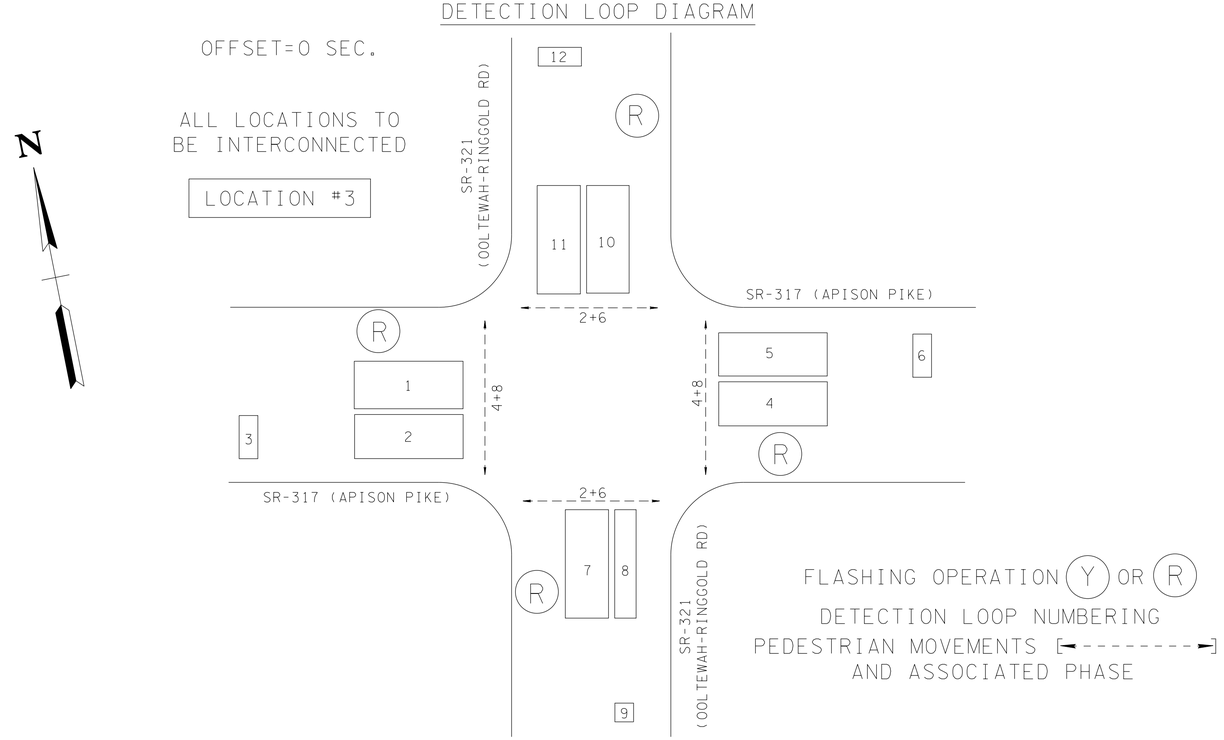
THESE TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY THE CONTRACTOR BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.

## DETECTION LOOP DIAGRAM

OFFSET=0 SEC.

ALL LOCATIONS TO BE INTERCONNECTED

LOCATION #3




## RADAR DETECTOR TARGET ASSIGNMENT

| TARGET AREA # | DETECTOR # | TARGET AREA (FT) | ASSOC. Ø | COMMENTS |
|---|---|---|---|---|
| 1 | 1SM | | 5 | |
| 2 | 1SM | | 2 | |
| 3 | 1SA | | 2 | |
| 4 | 2SM | | 1 | |
| 5 | 2SM | | 6 | |
| 6 | 2SA | | 6 | |
| 7 | 3SM | | 3 | |
| 8 | 3SM | | 8 | |
| 9 | 3SA | | 8 | |
| 10 | 4SM | | 7 | |
| 11 | 4SM | | 4 | |
| 12 | 4SA | | 4 | |

SM=SMARTSENSOR MATRIX
SA=SMARTSENSOR ADVANCE

**UNOFFICIAL SET**

**NOT FOR BIDDING**

SEALED BY

INTERSECTION OF SR-317 AND SR-321

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASING, TIMING, DETECTOR ASSIGNMENT

EIGHT PHASE

6/19/2014 3:15:52 PM
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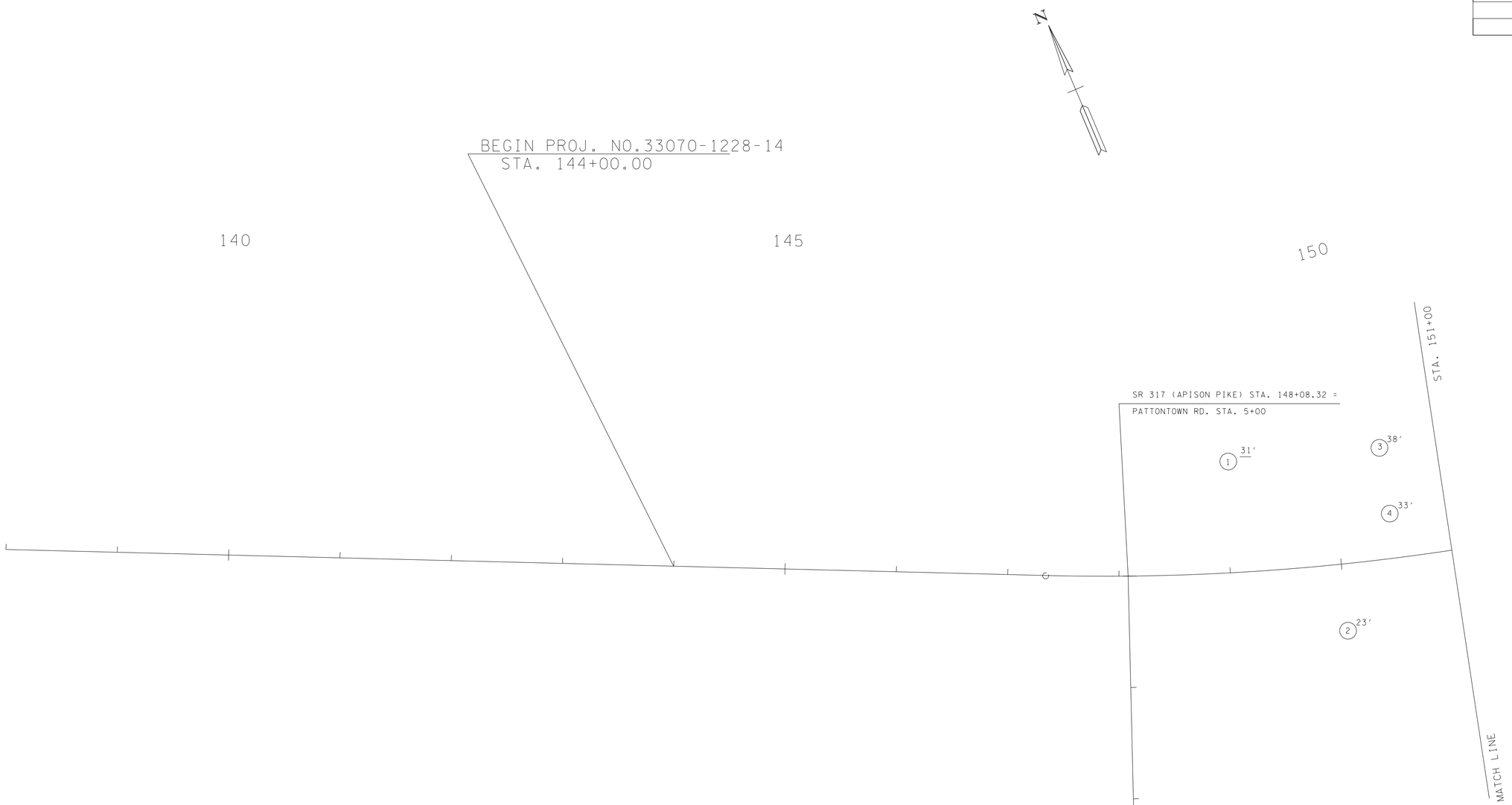
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59 |
| | | | |
| | | | |
| | | | |




| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 1 | - | 0-1 |
| | † CBR1 | 1-31 |
| 2 | - | 0-2 |
| | 1 | 2-23 |
| 3 | - | 0-4 |
| | 1 | 4-38 |
| 5 | - | 0-2 |
| | 1 | 2-33 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED.
ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY
BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CLAY - reddish brown with sand and gravel | 122.0 | 11.5 | 9.7-14.0 | 11.1 | 38 | 22 | A-7-6(9) | CL | 8.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

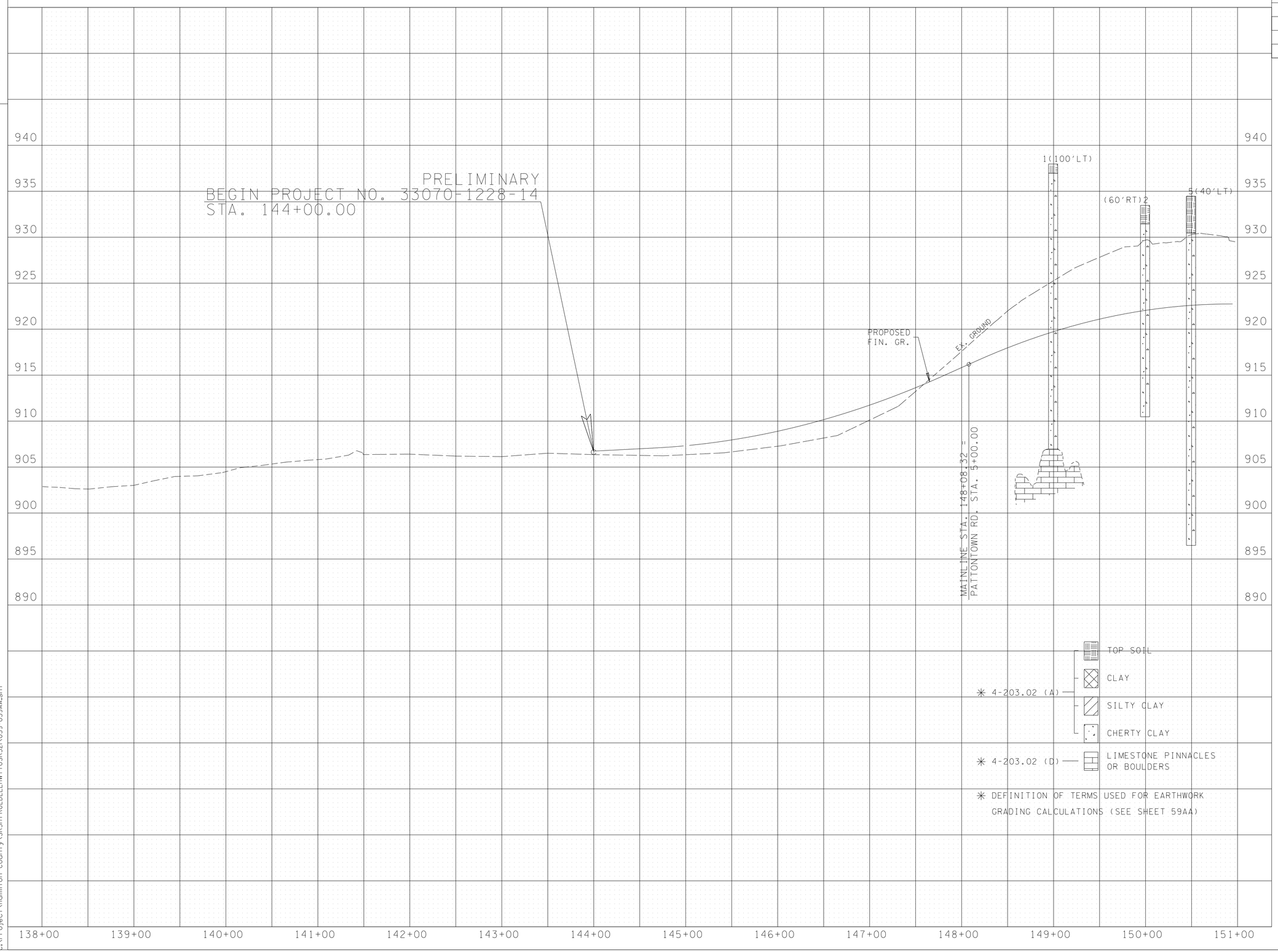
STATE ROUTE 317
(APISON PIKE)
STATION 144+00
TO
STATION 151+00

HAMILTON COUNTY

6/18/2014 9:04:26 AM
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\059-059AA.sht

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59A |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102555
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 144+00
TO
STATION 151+00

HAMILTON COUNTY

6/18/2014 9:04:49 AM
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59AA |
| | | | |
| | | | |
| | | | |

4-203.02

A. SOIL MATERIAL

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

4-203.02

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E., BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCKCUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTUCTION PRODUCTS. THIS MATERIAL WOULD HAVE A SIGNIFICANT SWELL FACTOR AS GIVEN IN SWELL FACTORS SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

4-203.02

C. SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PURPOSES THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS. THIS MATERIAL WOULD HAVE A RELATIVELY SMALL SHRINK OR SWELL FACTOR DEPENDING ON THE TYPE MATERIAL AND THE DEGREE OF WEATHERING, DISINTEGRATION, OR DEGRADATION.

4-203.02

D. TRANSITIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIAL A,B, AND C AS DEFINED IN SECTION 4-230.02 OF THE TDOT ROADWAY DESIGN GUIDELINES) OCCURRING IN EITHER NON- UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH LATERALLY AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OF BOULDERS ALONG WITH RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
DEFINITION OF TERMS
USED FOR EARTHWORK
GRADING CALCULATIONS

HAMILTON COUNTY

6/18/2014 9:05:29 AM
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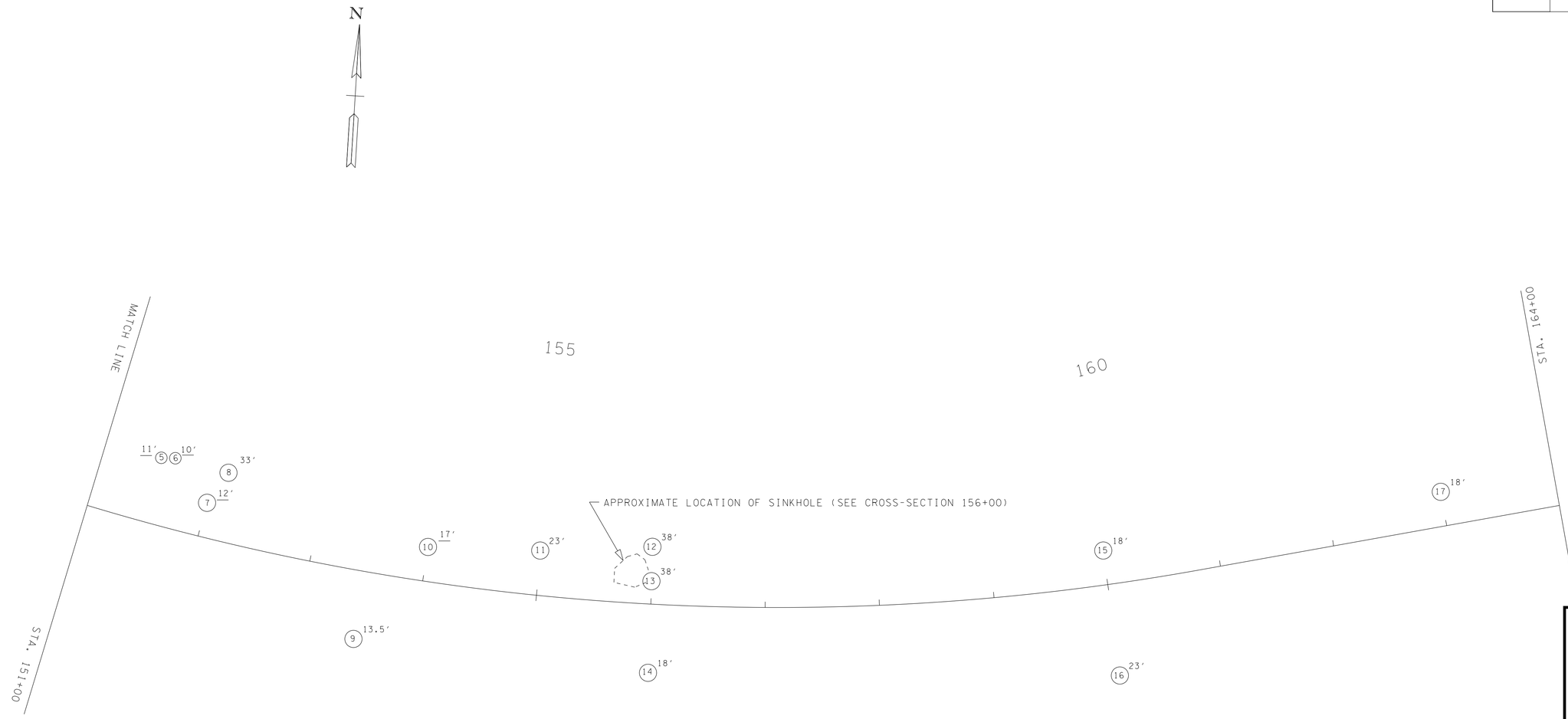
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59B |
| | | | |
| | | | |
| | | | |

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




| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 5 | - | 0-3 |
| | 1 | 3-11 |
| 6 | - | 0-2 |
| | 1 | 2-10 |
| 7 | - | 0-4 |
| | 1 | 4-12 |
| 8 | - | 0-4 |
| | 1 | 4-33 |
| 9 | - | 0-1 |
| | 1 | 1-13.5 |
| 10 | - | 0-1 |
| | 1 | 1-17 |
| 11 | - | 0-2 |
| | 1 | 2-23 |

| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 12 | - | 0-2 |
| | 1 | 2-38 |
| 13 | - | 0-2 |
| | 1 | 2-38 |
| 14 | - | 0-2 |
| | 2 | 2-6 |
| | 1 | 6-18 |
| 15 | - | 0-4 |
| | 1 | 4-18 |
| 16 | - | 0-2 |
| | 1 | 2-23 |
| 17 | - | 0-4 |
| | 1 | 4-18 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED.
ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CLAY - reddish brown with sand and gravel | 122.0 | 11.5 | 9.7-14.0 | 11.1 | 38 | 22 | A-7-6(9) | CL | 8.0 |
| 2 | CLAY - brown with sand and gravel | 108.0 | 17.5 | 14.5-20.7 | 20.5 | 52 | 23 | A-6(4) | CH | 9.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102580
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 317
(APISON PIKE)
STATION 151+00
TO
STATION 164+00
HAMILTON COUNTY

6/18/2014 9:05:13 AM
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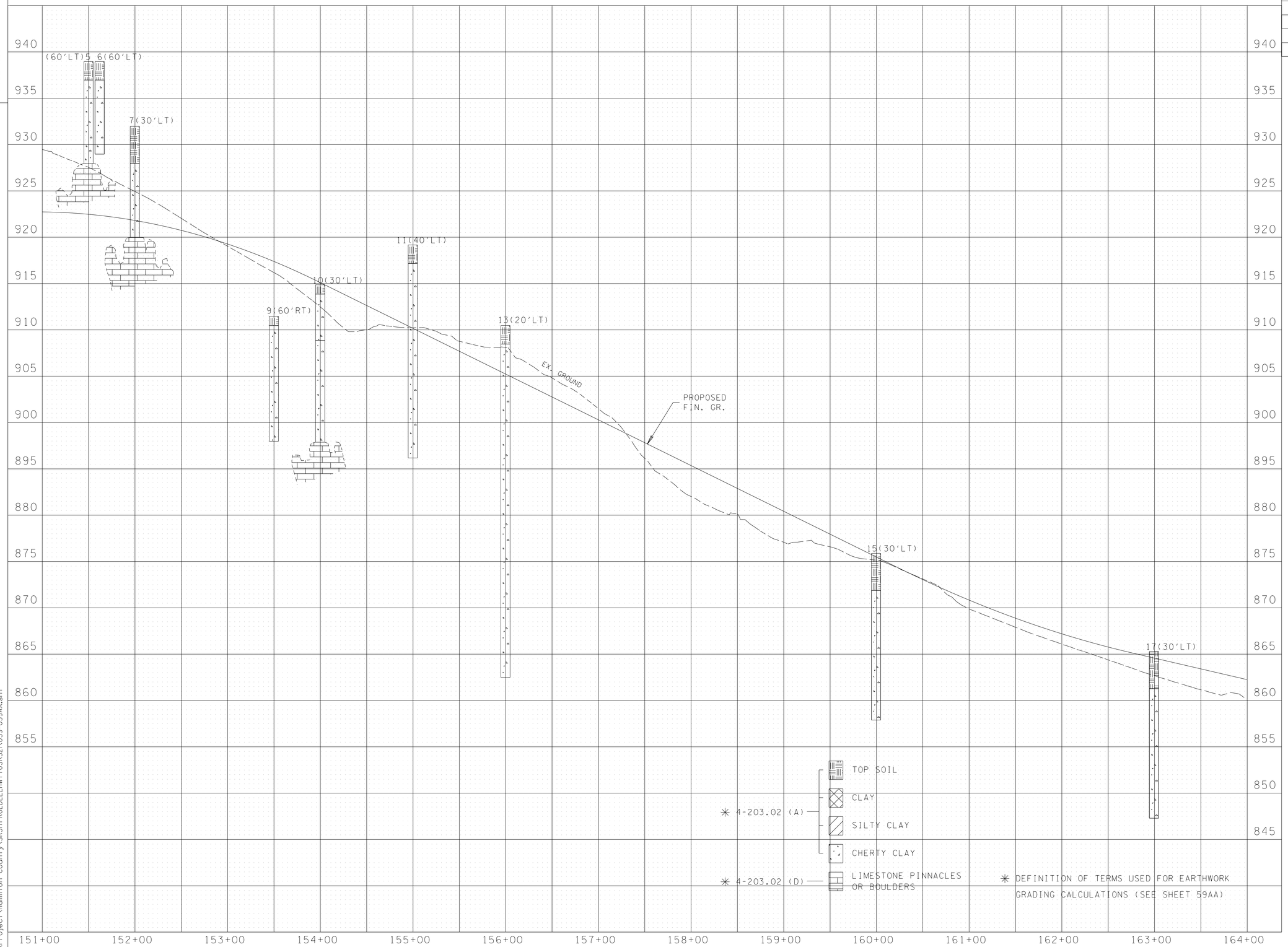
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59C |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 10306
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 151+00
TO
STATION 164+00

HAMILTON COUNTY

6/18/2014 9:05:42 AM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59D |
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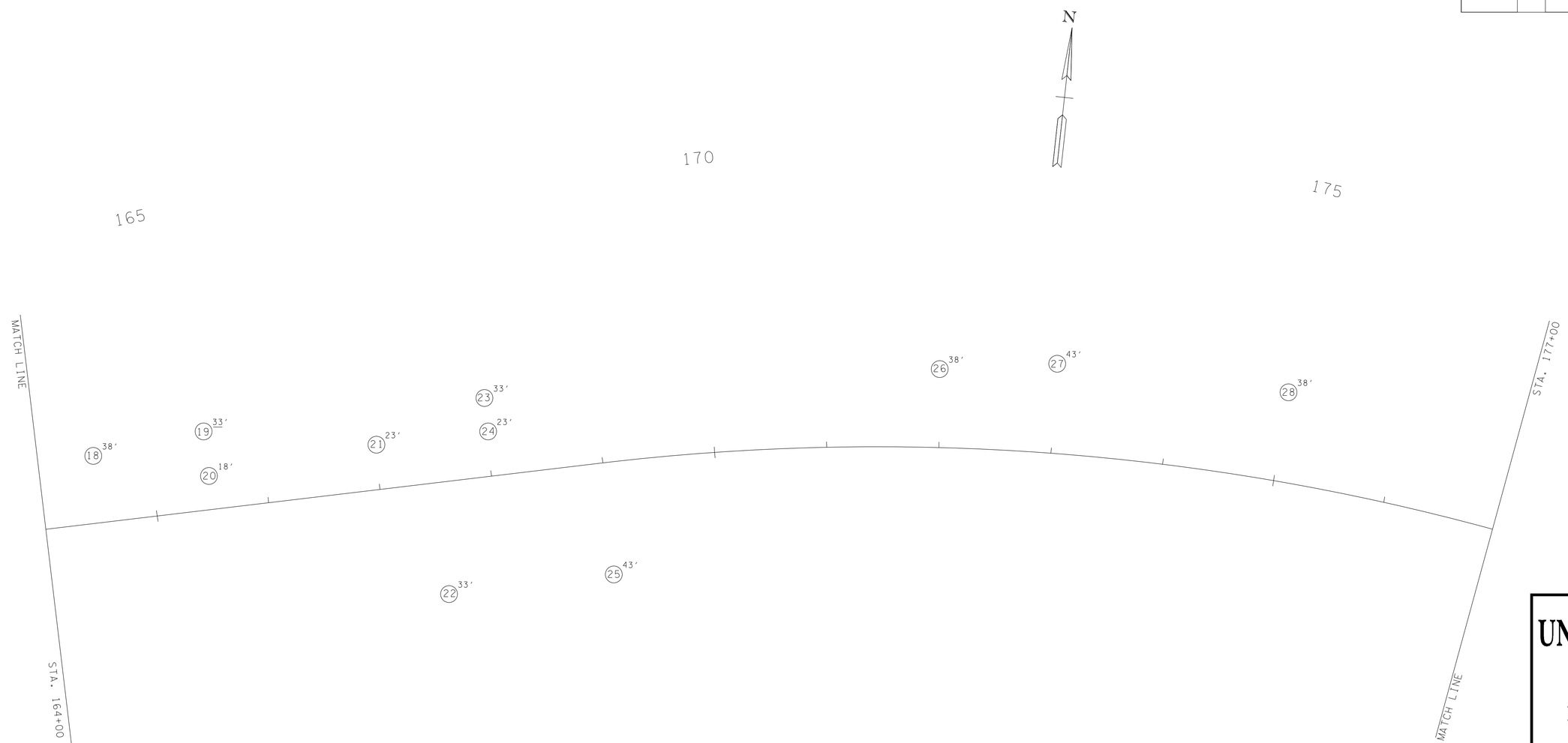


| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 18 | - | 0-2 |
| | 1 | 2-38 |
| 19 | - | 0-3 |
| | 1 | 3-33 |
| 20 | - | 0-4 |
| | 1 | 4-18 |
| 21 | - | 0-2 |
| | 1 | 2-23 |
| 22 | - | 0-2 |
| | 1 | 2-33 |
| 23 | - | 0-2 |
| | 1 | 2-33 |

| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 24 | - | 0-2 |
| | 1 | 2-23 |
| 25 | - | 0-2 |
| | 1 | 2-43 |
| 26 | - | 0-3 |
| | 1 | 3-38 |
| 27 | - | 0-3 |
| | † CBR2 | 3-18 |
| | † CBR3 | 18-43 |
| 28 | - | 0-3 |
| | 1 | 3-38 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED.
ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CLAY - reddish brown with sand and gravel | 122.0 | 11.5 | 9.7-14.0 | 11.1 | 38 | 22 | A-7-6(9) | CL | 8.0 |
| 2 | CLAY - brown with sand and gravel | 108.0 | 17.5 | 14.5-20.7 | 20.5 | 52 | 23 | A-6(4) | CH | 9.0 |
| 3 | CLAY - light brown with gravel | 106.0 | 18.0 | 15.0-22.2 | 20.5 | 56 | 27 | A-7-6(6) | CH | 7.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 317
(APISON PIKE)
STATION 164+00
TO
STATION 177+00
HAMILTON COUNTY

6/18/2014 9:05:55 AM
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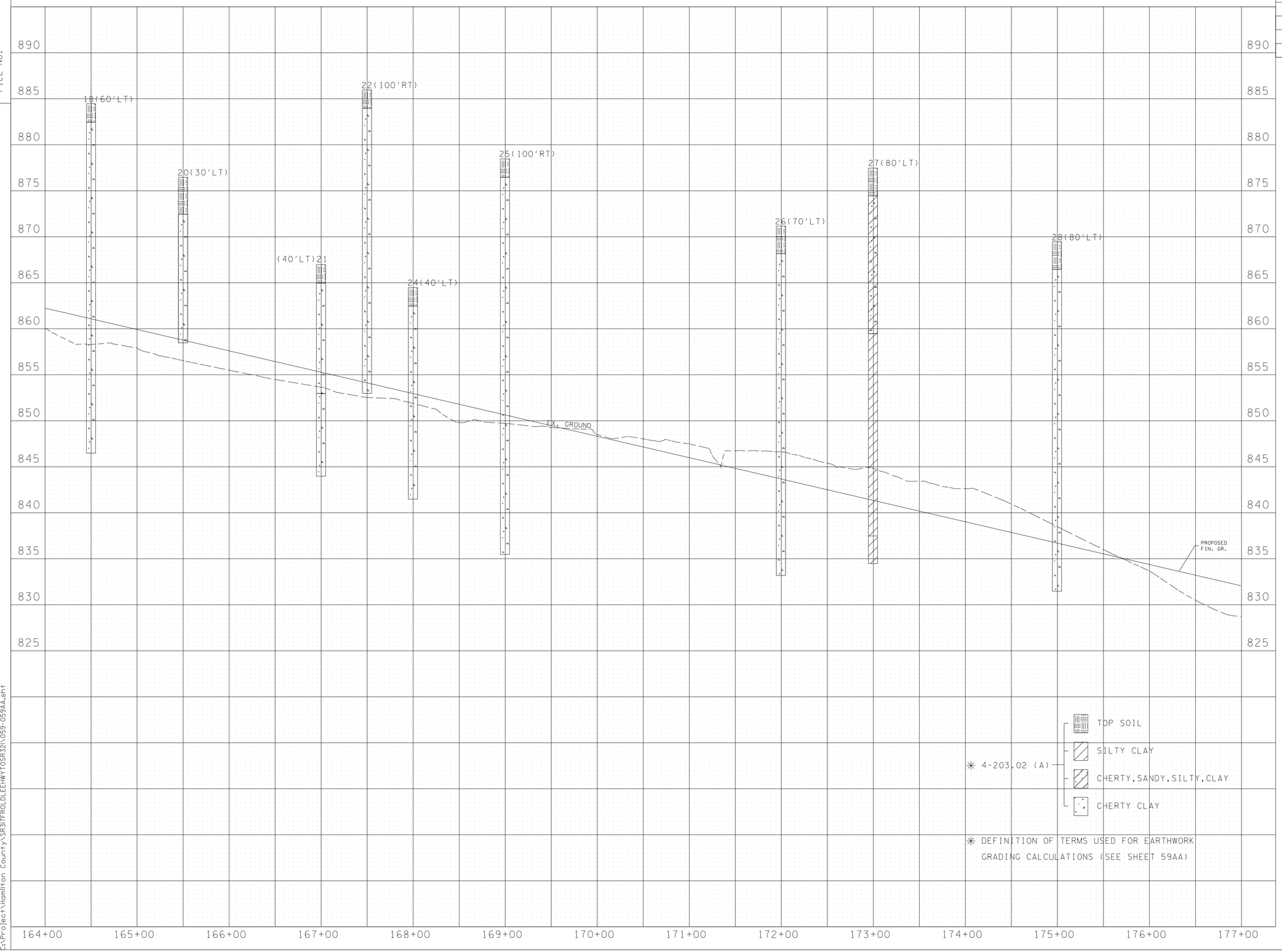
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59E |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
TENNESSEE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 317
(APISON PIKE)
STATION 164+00
TO
STATION 177+00
HAMILTON COUNTY

6/18/2014 9:06:11 AM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59F |
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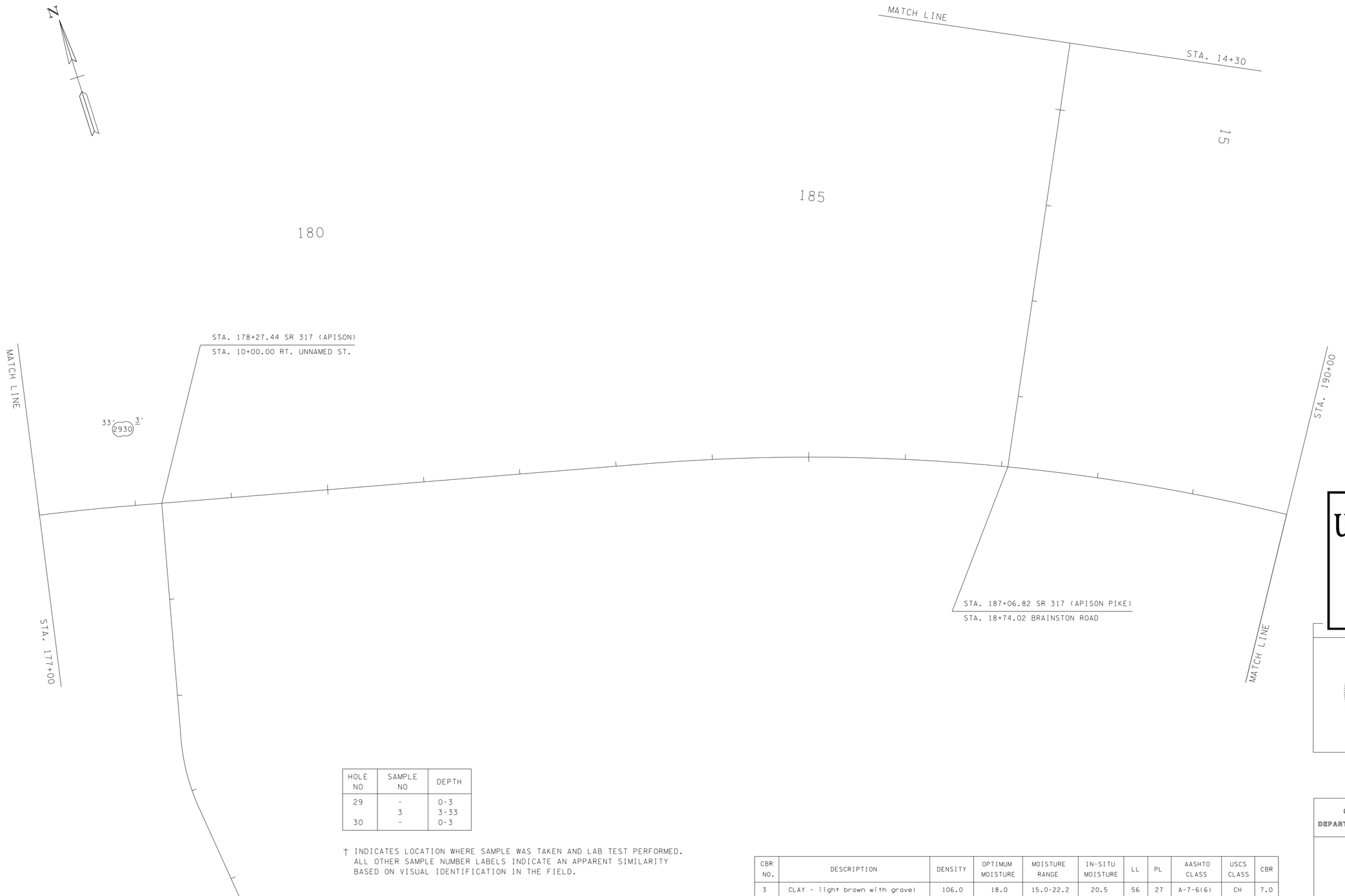


| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 29 | - | 0-3 |
| | 3 | 3-33 |
| 30 | - | 0-3 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED. ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | CLAY - light brown with gravel | 106.0 | 18.0 | 15.0-22.2 | 20.5 | 56 | 27 | A-7-6(6) | CH | 7.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JONES
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 105595
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 177+00
TO
STATION 190+00

HAMILTON COUNTY

6/18/2014 9:06:31 AM
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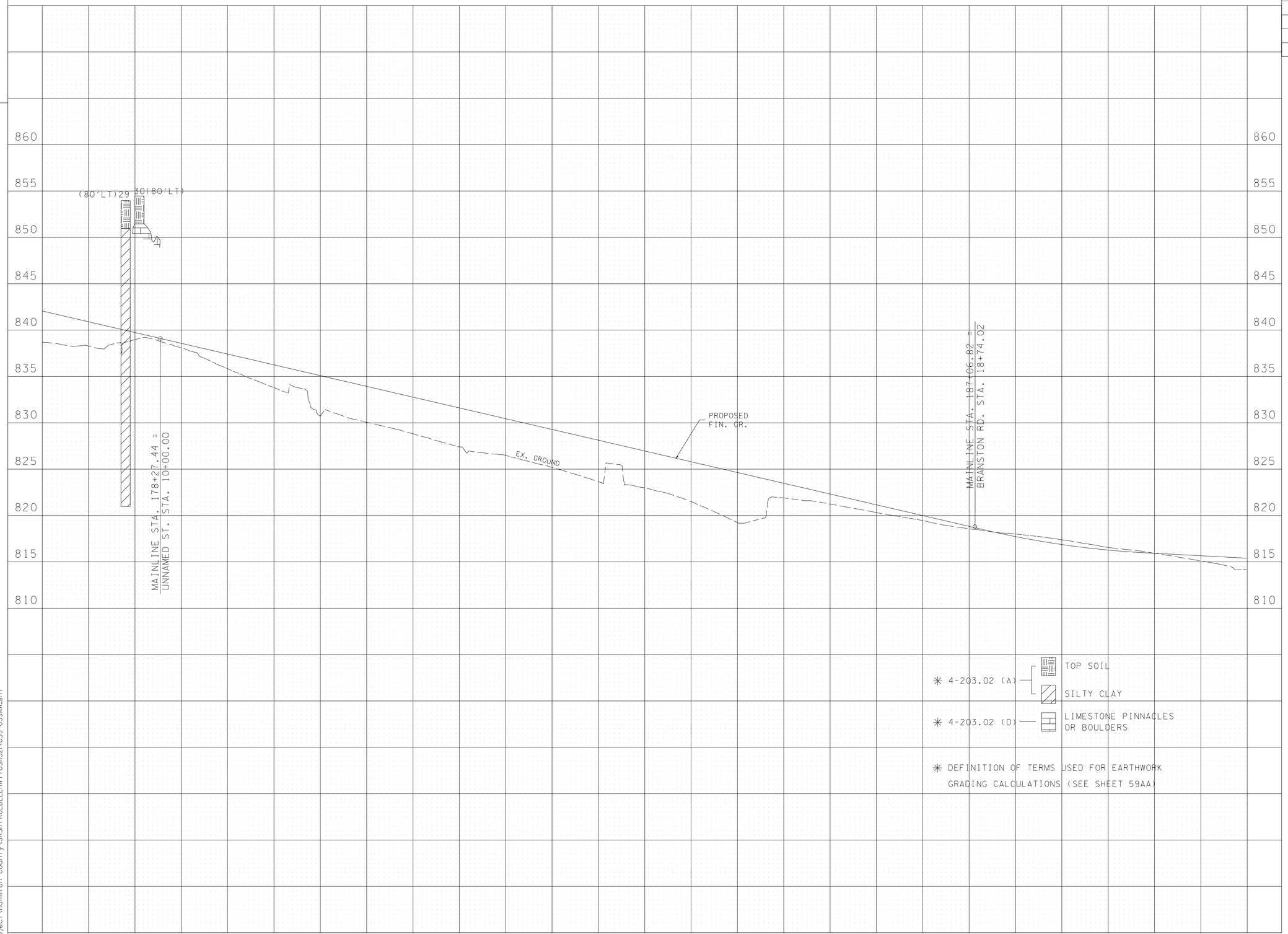
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59G |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103596
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 177+00
TO
STATION 190+00

HAMILTON COUNTY

6/18/2014 9:06:46 AM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59H |
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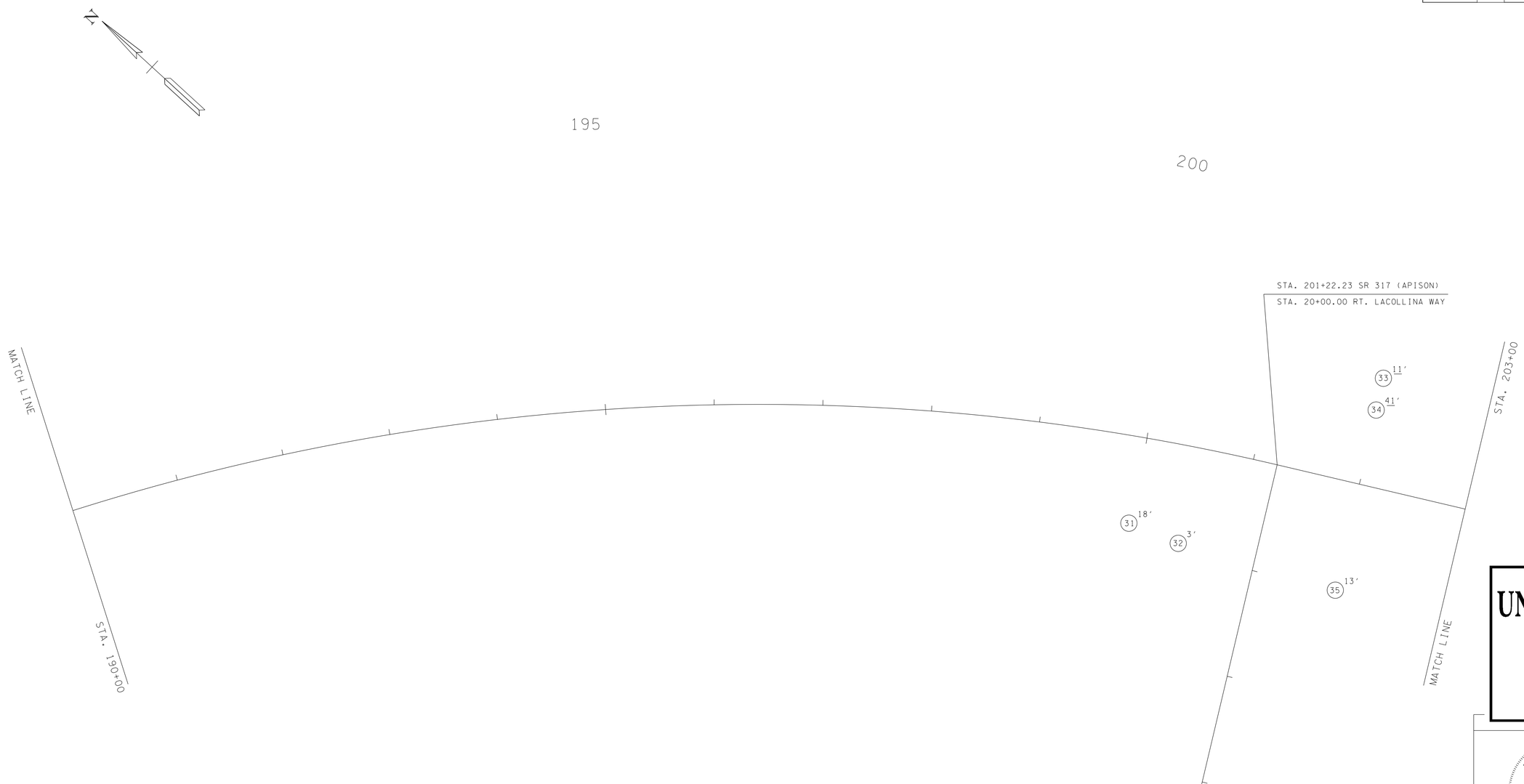


| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 31 | - | 0-3 |
| | - | 3-18 |
| 32 | - | 0-3 |
| 33 | - | 0-11 |
| 34 | - | 0-16 |
| | 1 | 16-41 |
| 35 | - | 0-3 |
| | - | 3-13 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED.
ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY
BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CLAY - reddish brown with sand and gravel | 122.0 | 11.5 | 9.7-14.0 | 11.1 | 38 | 22 | A-7-6(9) | CL | 8.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JONES
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103595
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 190+00
TO
STATION 203+00

HAMILTON COUNTY

6/18/2014 9:07:03 AM
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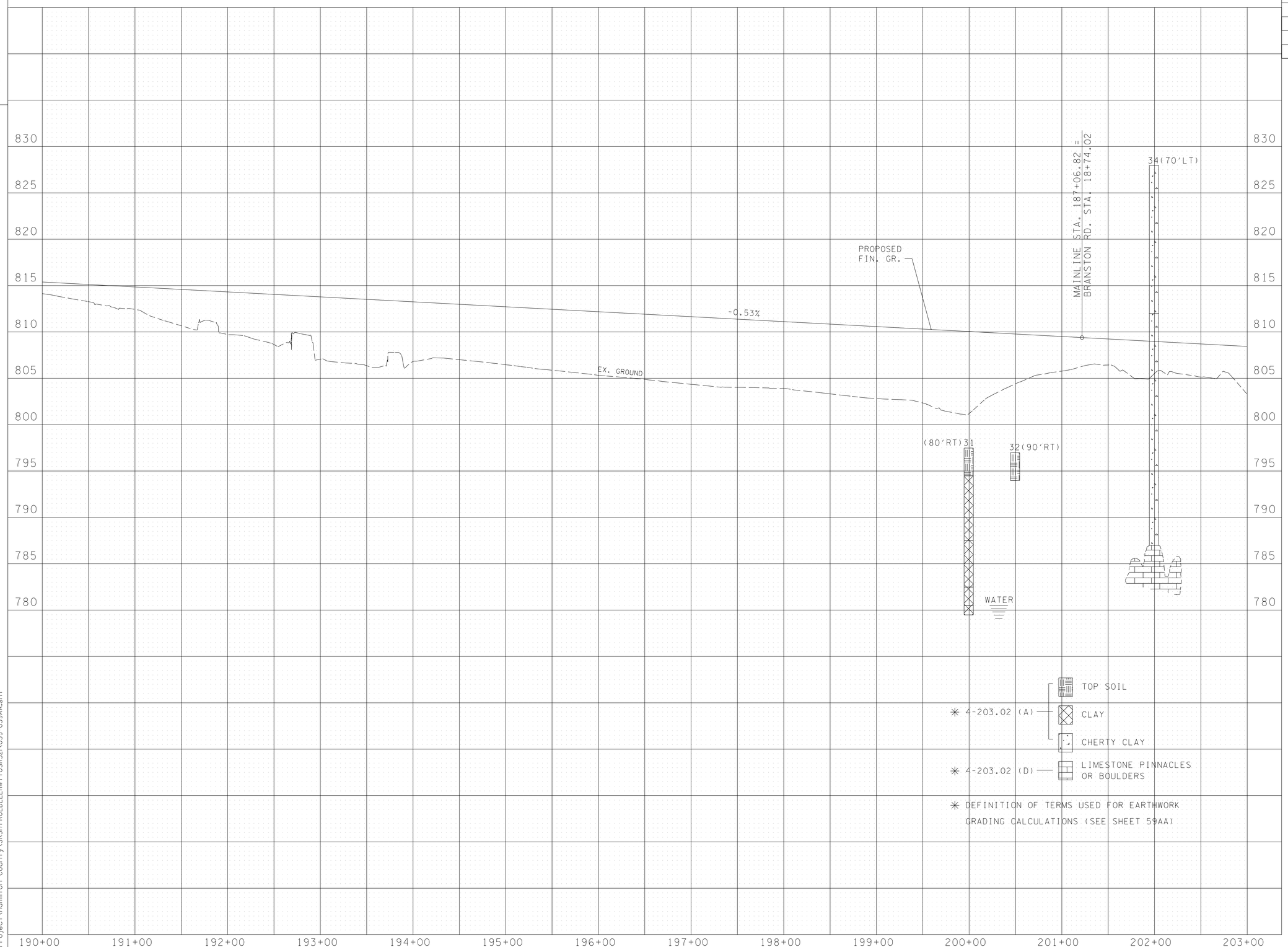
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59I |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102668
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 190+00
TO
STATION 203+00

HAMILTON COUNTY

6/18/2014 9:07:15 AM
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59J |
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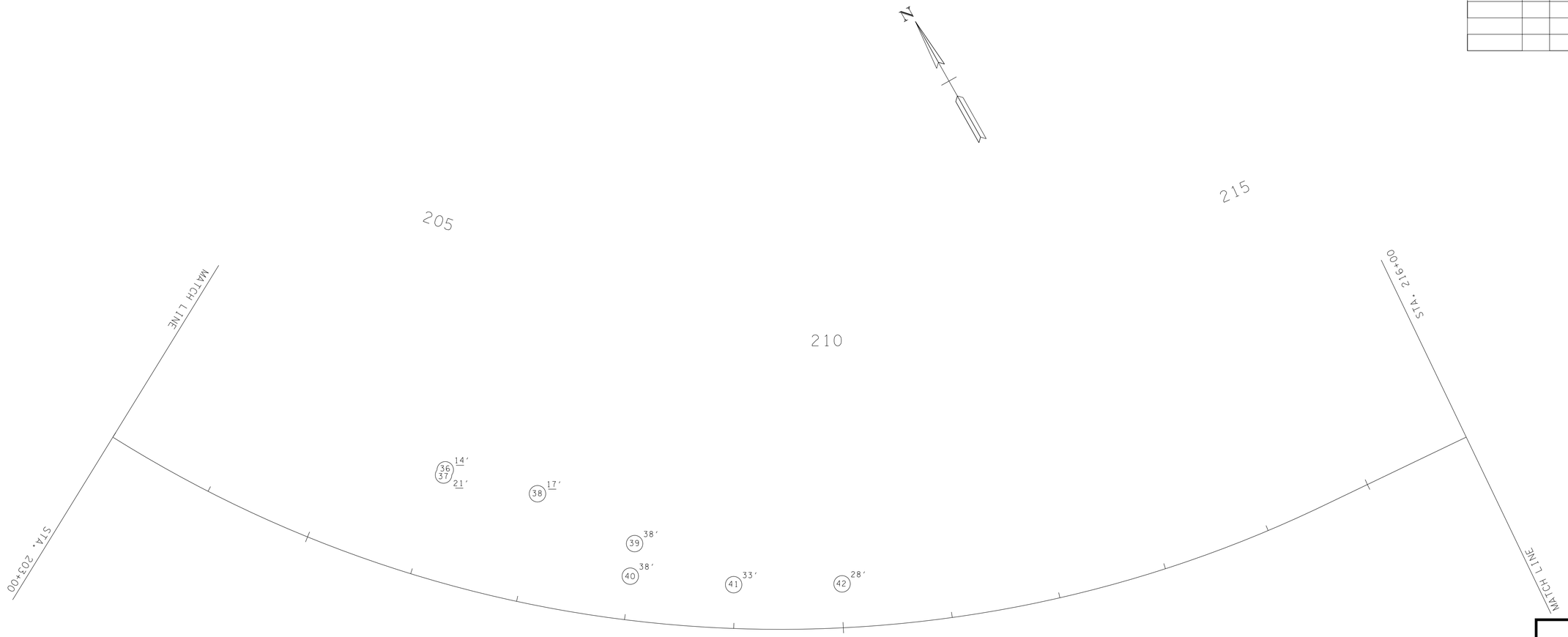
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.




DRILLING INACCESSIBLE STATION 212+00 THRU STATION 250+00

| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 36 | - | 0-3 |
| | 1 | 3-14 |
| 37 | - | 0-5 |
| | 1 | 5-21 |
| 38 | - | 0-5 |
| | 1 | 5-17 |
| 39 | - | 0-5 |
| | - | 5-38 |
| 40 | - | 0-5 |
| | - | 5-38 |
| 41 | - | 0-5 |
| | - | 5-33 |
| 42 | - | 0-5 |
| | 1 | 5-28 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED. ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CLAY - reddish brown with sand and gravel | 122.0 | 11.5 | 9.7-14.0 | 11.1 | 38 | 22 | A-7-6(9) | CL | 8.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
DEPT. OF AGRICULTURE
DEPT. OF COMMERCE
No. 102555
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 317
(APISON PIKE)
STATION 203+00
TO
STATION 216+00
HAMILTON COUNTY

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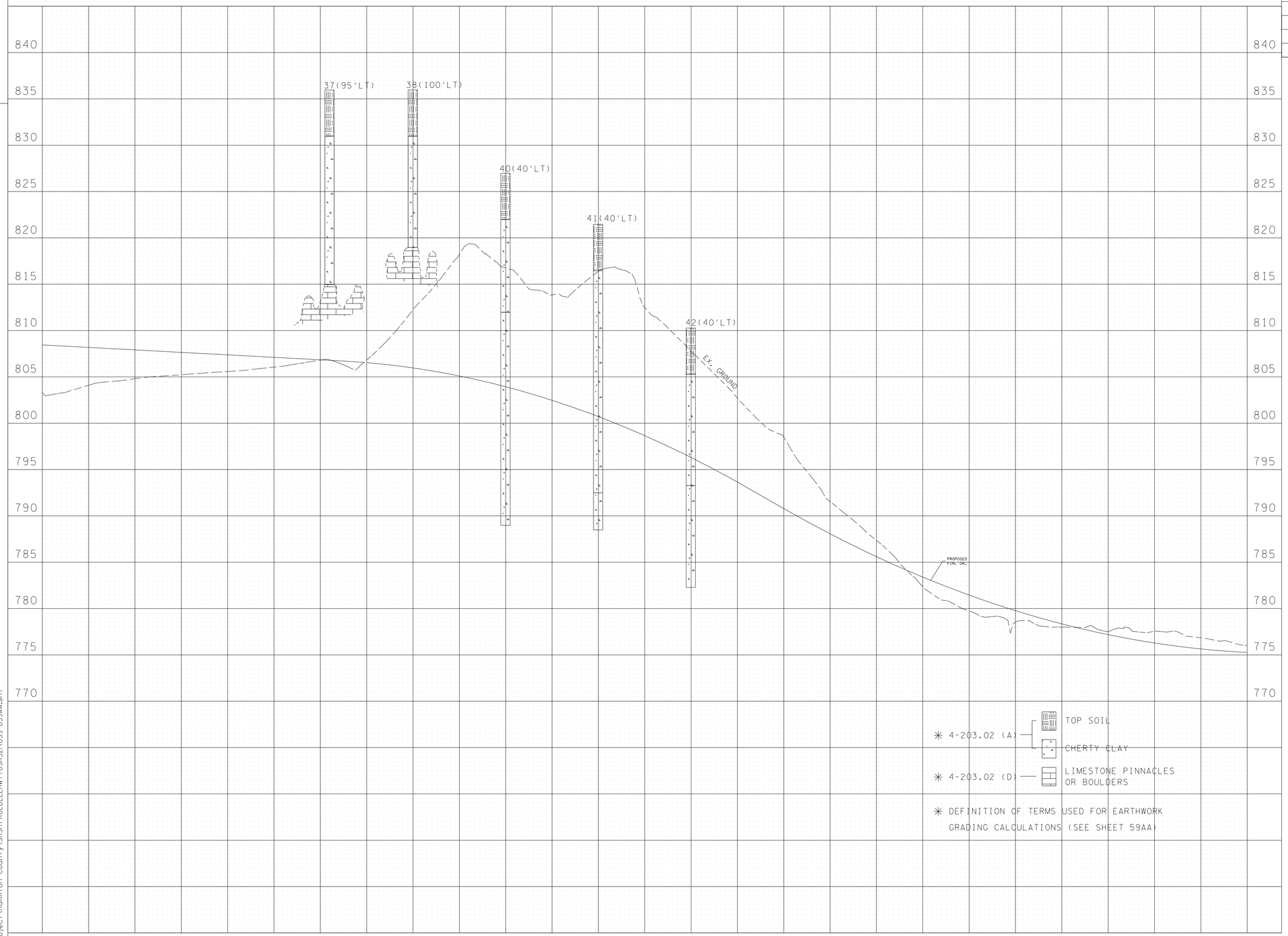
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59K |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103596
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 203+00
TO
STATION 216+00

HAMILTON COUNTY

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59L |
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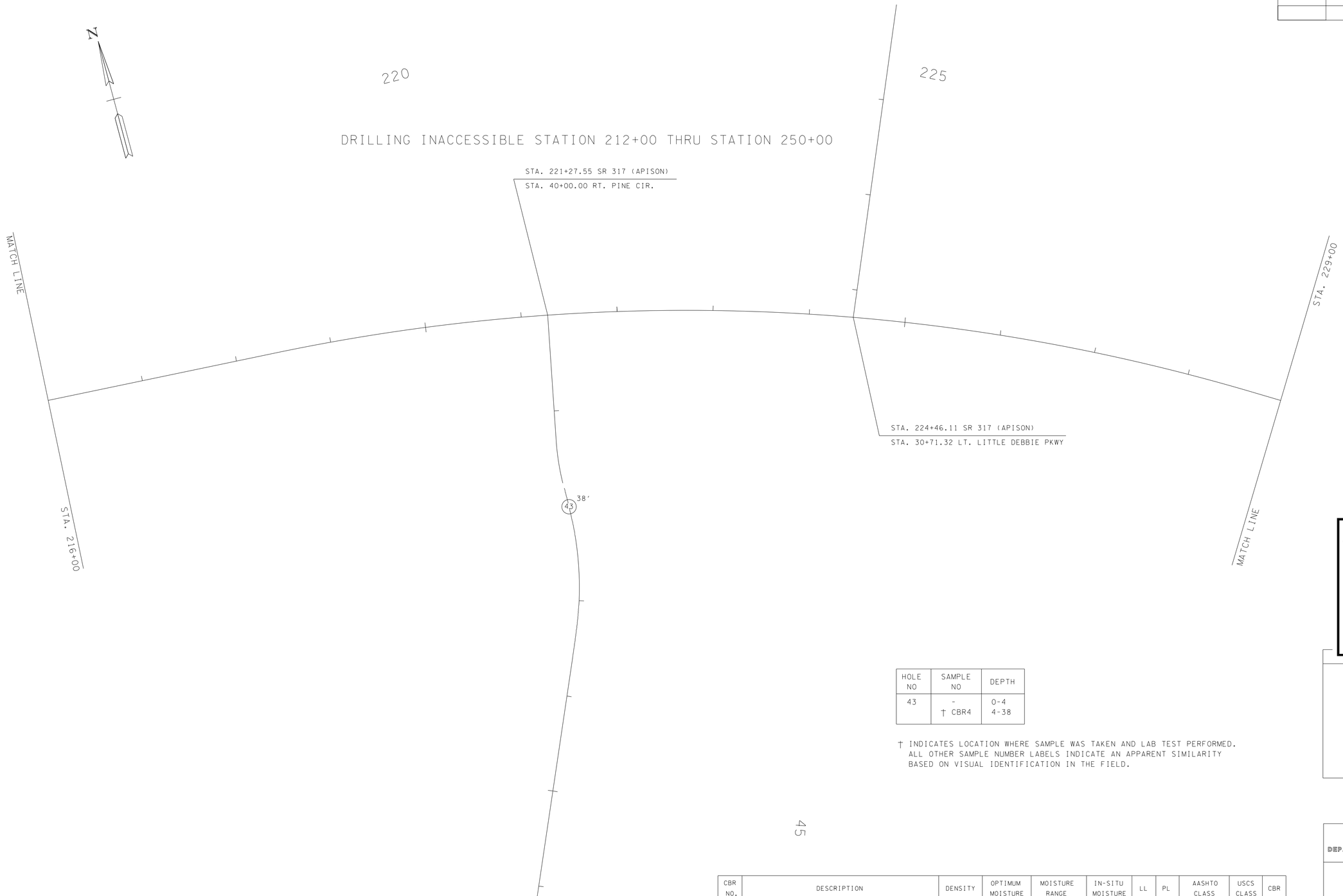


| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 43 | - | 0-4 |
| | † CBR4 | 4-38 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED.
ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY
BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | CLAY - reddish brown with sand and gravel | 93.0 | 25.8 | 21.1-31.9 | 28.2 | 61 | 32 | A-7-5(28) | MH | 5.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JONES
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102595
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 317
(APISON PIKE)
STATION 216+00
TO
STATION 229+00
HAMILTON COUNTY

6/18/2014 9:07:59 AM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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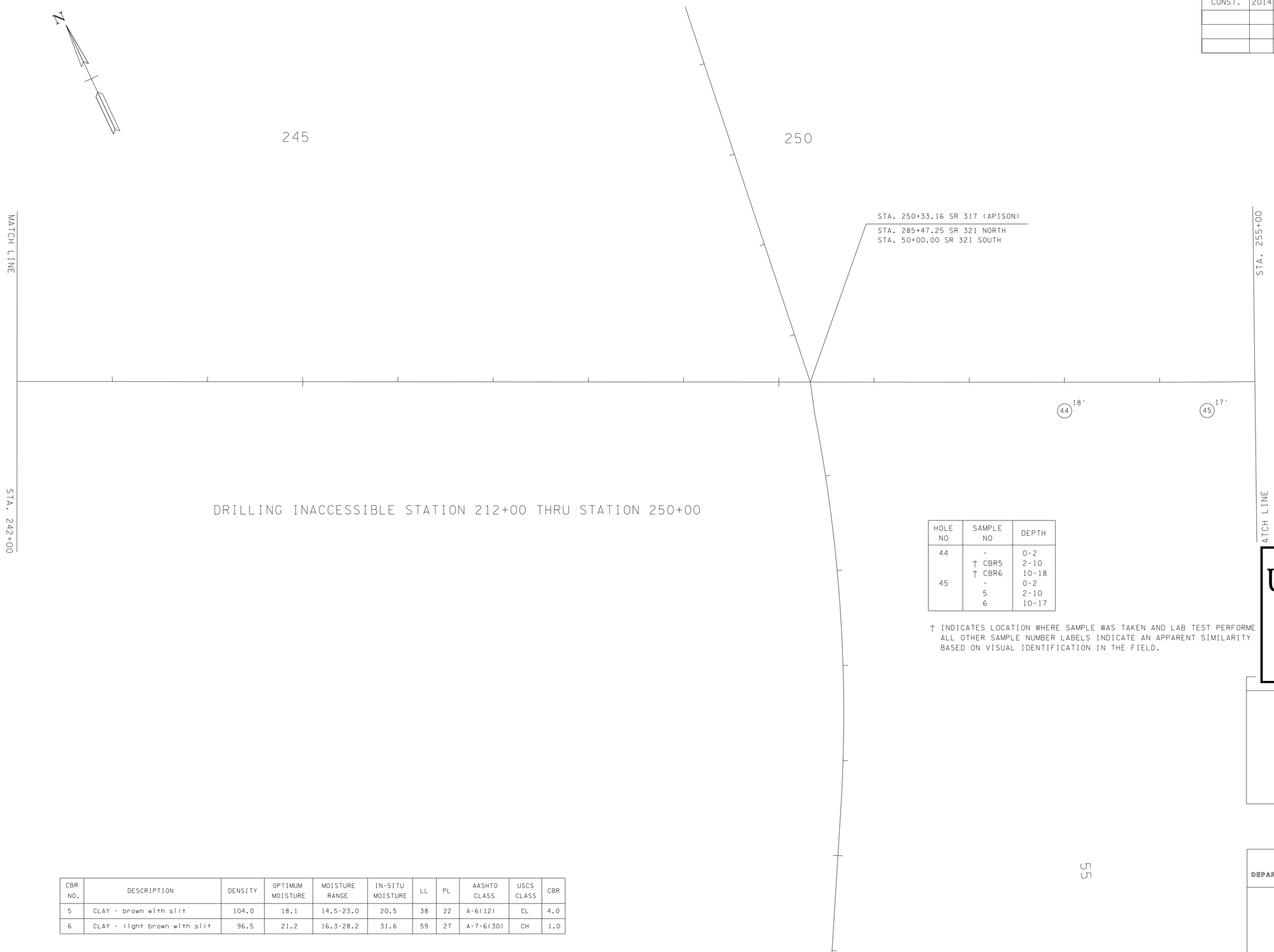


| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 44 | - | 0-2 |
| | † CBR5 | 2-10 |
| | † CBR6 | 10-18 |
| 45 | - | 0-2 |
| | 5 | 2-10 |
| | 6 | 10-17 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORME
ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY
BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | CLAY - brown with silt | 104.0 | 18.1 | 14.5-23.0 | 20.5 | 38 | 22 | A-6(12) | CL | 4.0 |
| 6 | CLAY - light brown with silt | 96.5 | 21.2 | 16.3-28.2 | 31.6 | 59 | 27 | A-7-6(30) | CH | 1.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102595
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 317
(APISON PIKE)
STATION 242+00
TO
STATION 255+00
HAMILTON COUNTY



6/18/2014 9:08:12 AM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
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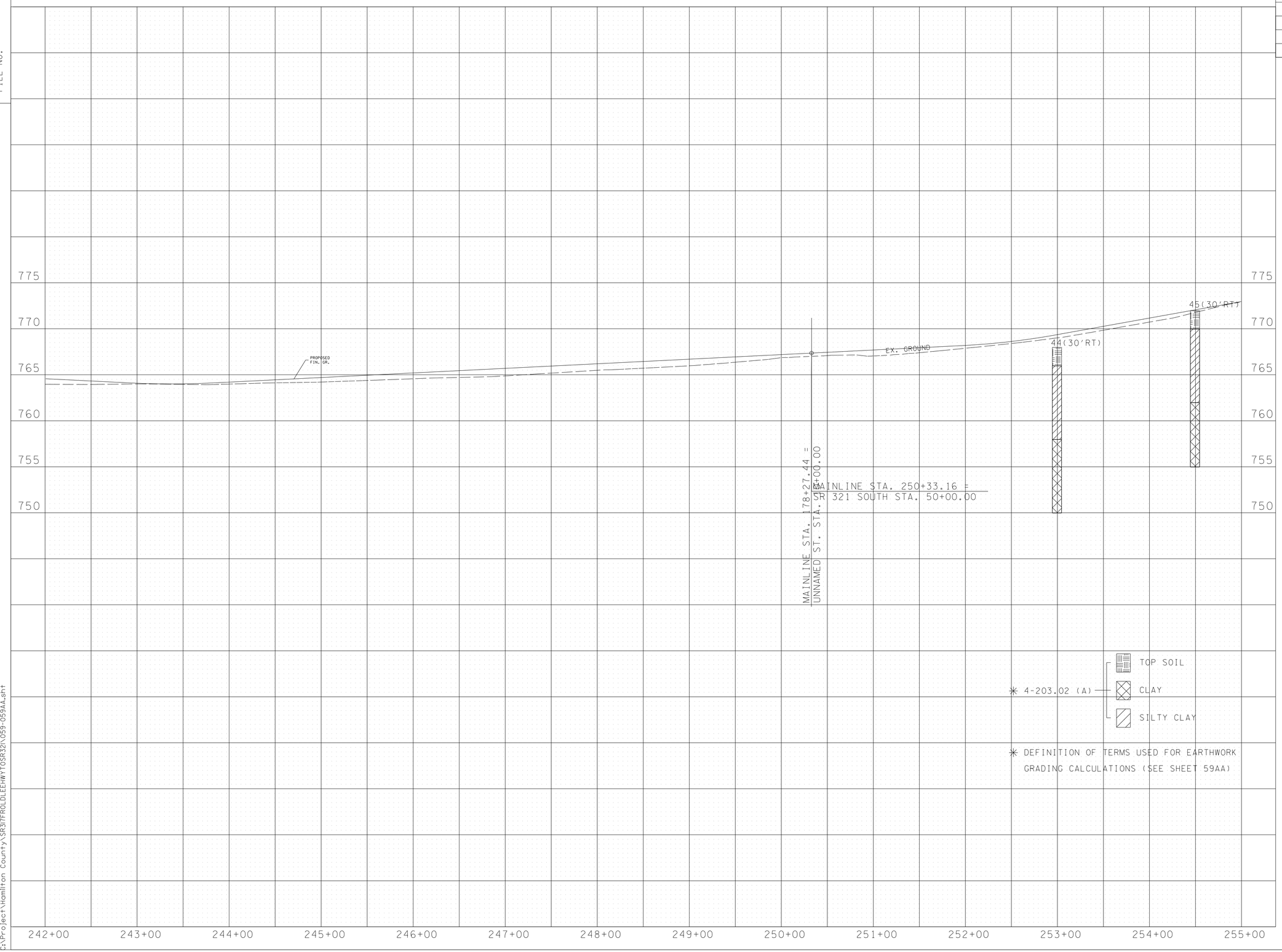


UNOFFICIAL SET

NOT FOR BIDDING

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 105008
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 242+00
TO
STATION 255+00

HAMILTON COUNTY

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

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 590 |
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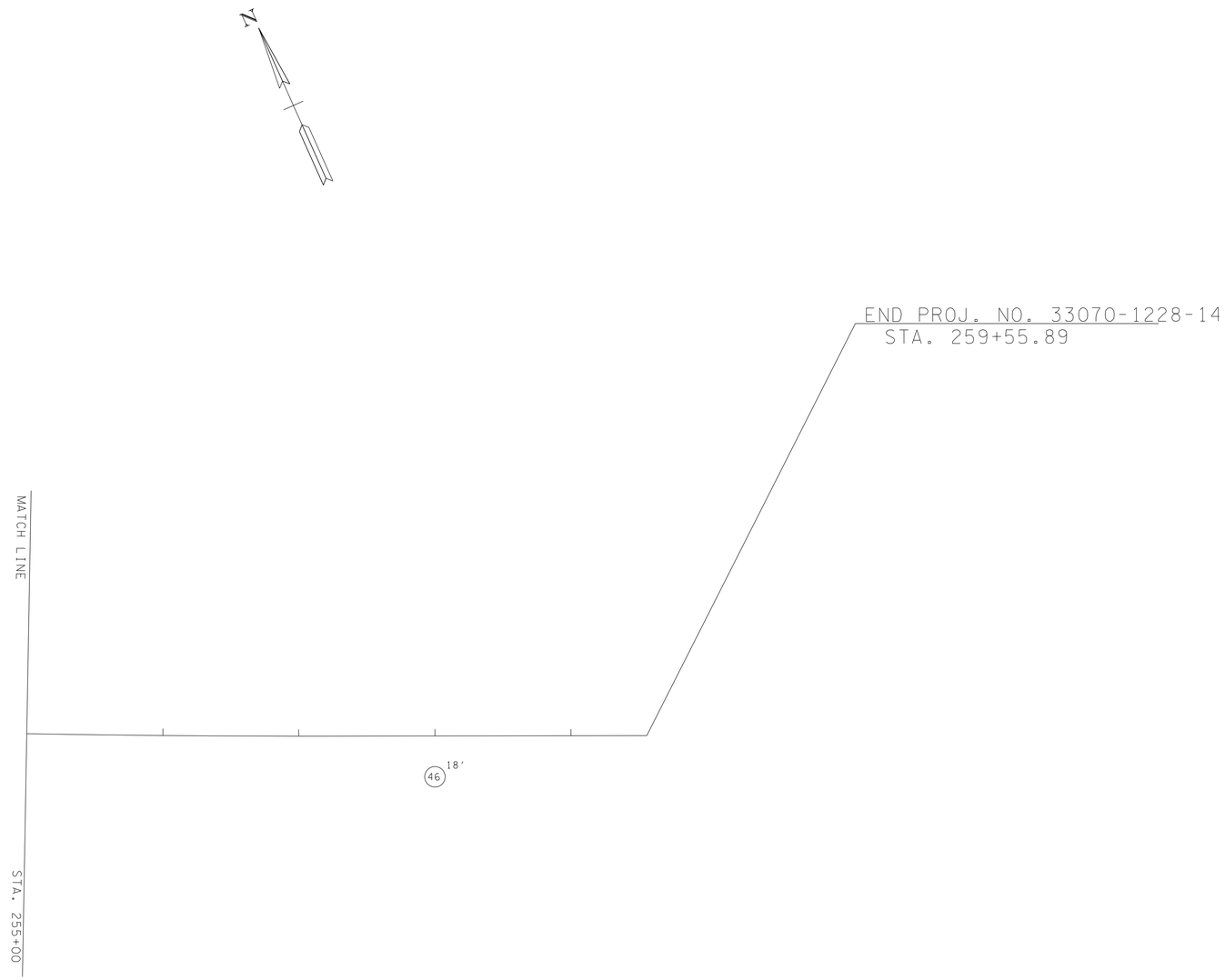


| HOLE NO | SAMPLE NO | DEPTH |
|---|---|---|
| 46 | - | 0-2 |
| | 5 | 2-10 |
| | 6 | 10-18 |

† INDICATES LOCATION WHERE SAMPLE WAS TAKEN AND LAB TEST PERFORMED.
ALL OTHER SAMPLE NUMBER LABELS INDICATE AN APPARENT SIMILARITY BASED ON VISUAL IDENTIFICATION IN THE FIELD.

| CBR NO. | DESCRIPTION | DENSITY | OPTIMUM MOISTURE | MOISTURE RANGE | IN-SITU MOISTURE | LL | PL | AASHTO CLASS | USCS CLASS | CBR |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | CLAY - brown with silt | 104.0 | 18.1 | 14.5-23.0 | 20.5 | 38 | 22 | A-6(12) | CL | 4.0 |
| 6 | CLAY - light brown with silt | 96.5 | 21.2 | 16.3-28.2 | 31.6 | 59 | 27 | A-7-6(30) | CH | 1.0 |

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 255+00
TO
STATION 259+55

HAMILTON COUNTY

6/8/2014 9:08:38 AM
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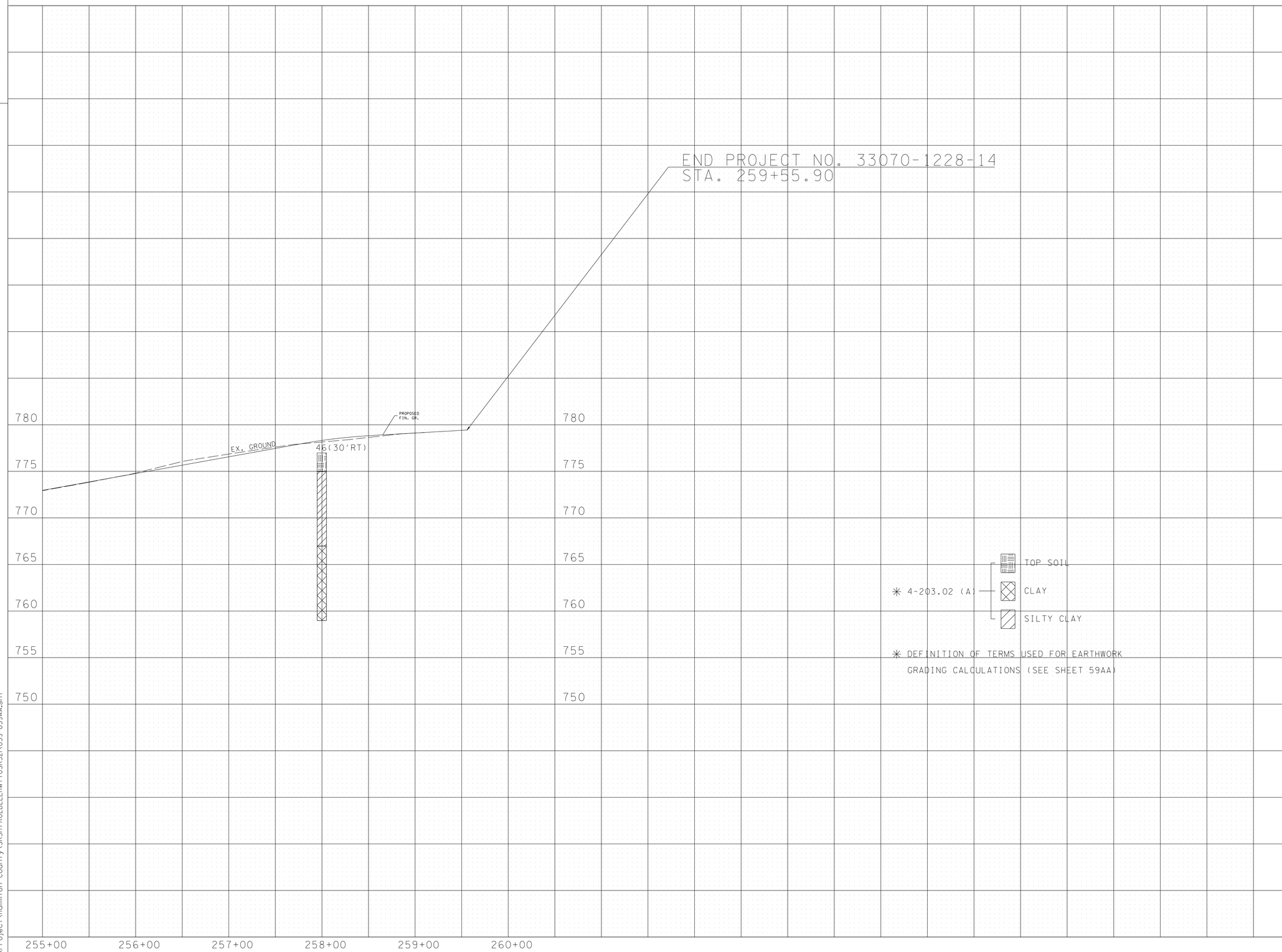
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59P |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102326
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 317
(APISON PIKE)
STATION 255+00
TO
STATION 259+55
HAMILTON COUNTY

6/18/2014 9:09:01 AM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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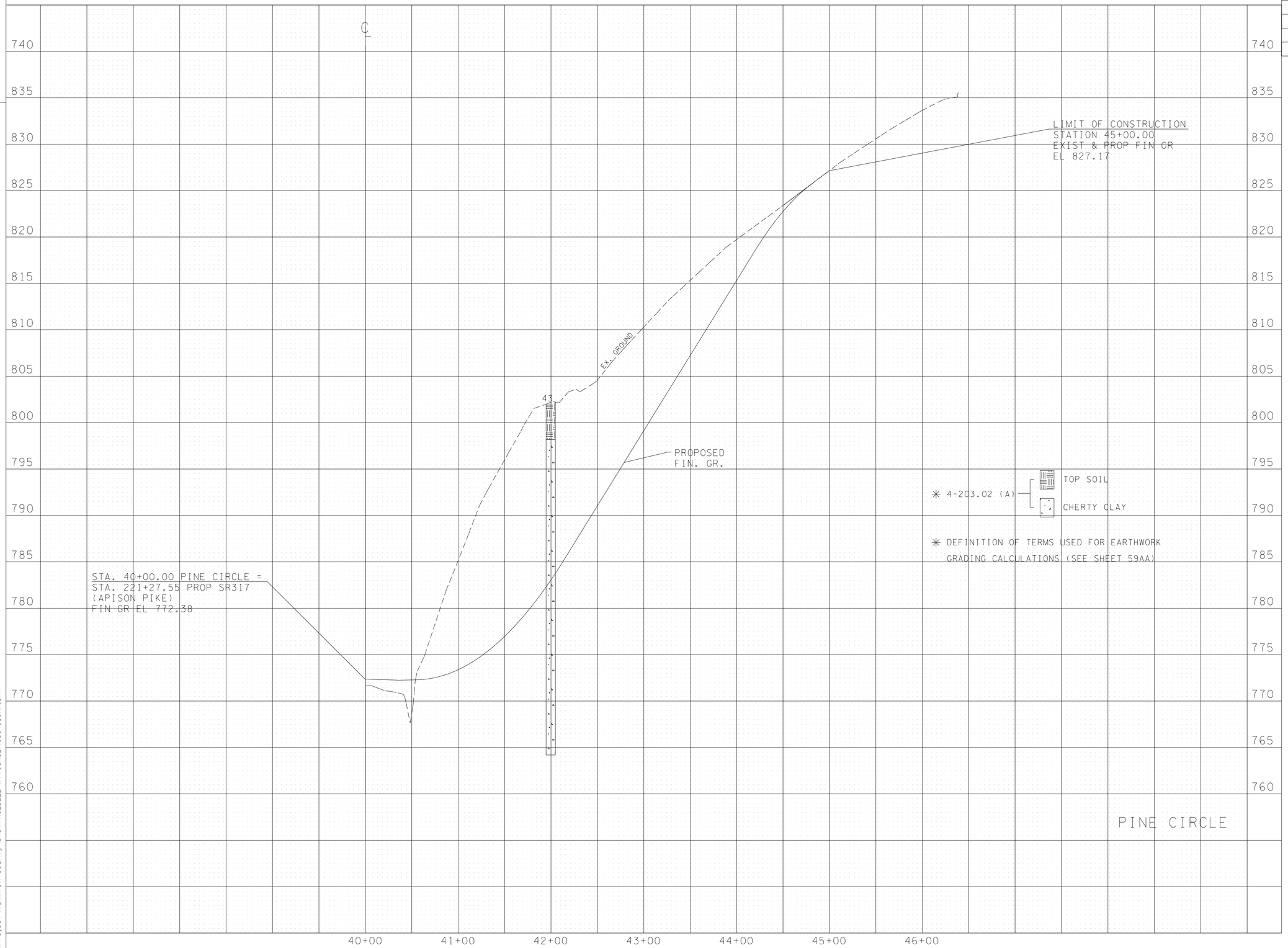
| CONST. | 2014 | STP/NH-317(14) | 59Q |




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 10306
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STATE ROUTE 317
(APISON PIKE)
STATION 40+00
TO
STATION 45+00

HAMILTON COUNTY

6/18/2014 9:09:14 AM
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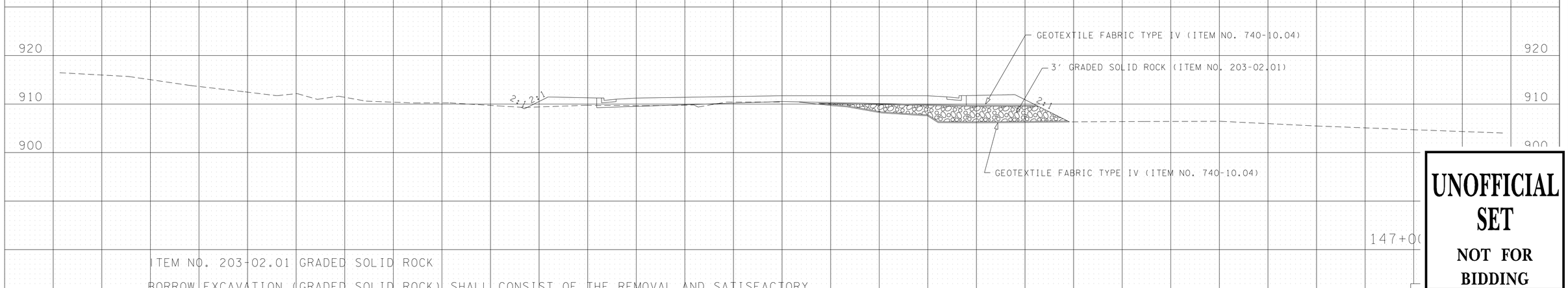
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59R |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 143+50 TO STATION 147+00




ITEM NO. 203-02.01 GRADED SOLID ROCK

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

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102926
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)
HAMILTON COUNTY

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 120 130

6/18/2014 9:09:28 AM
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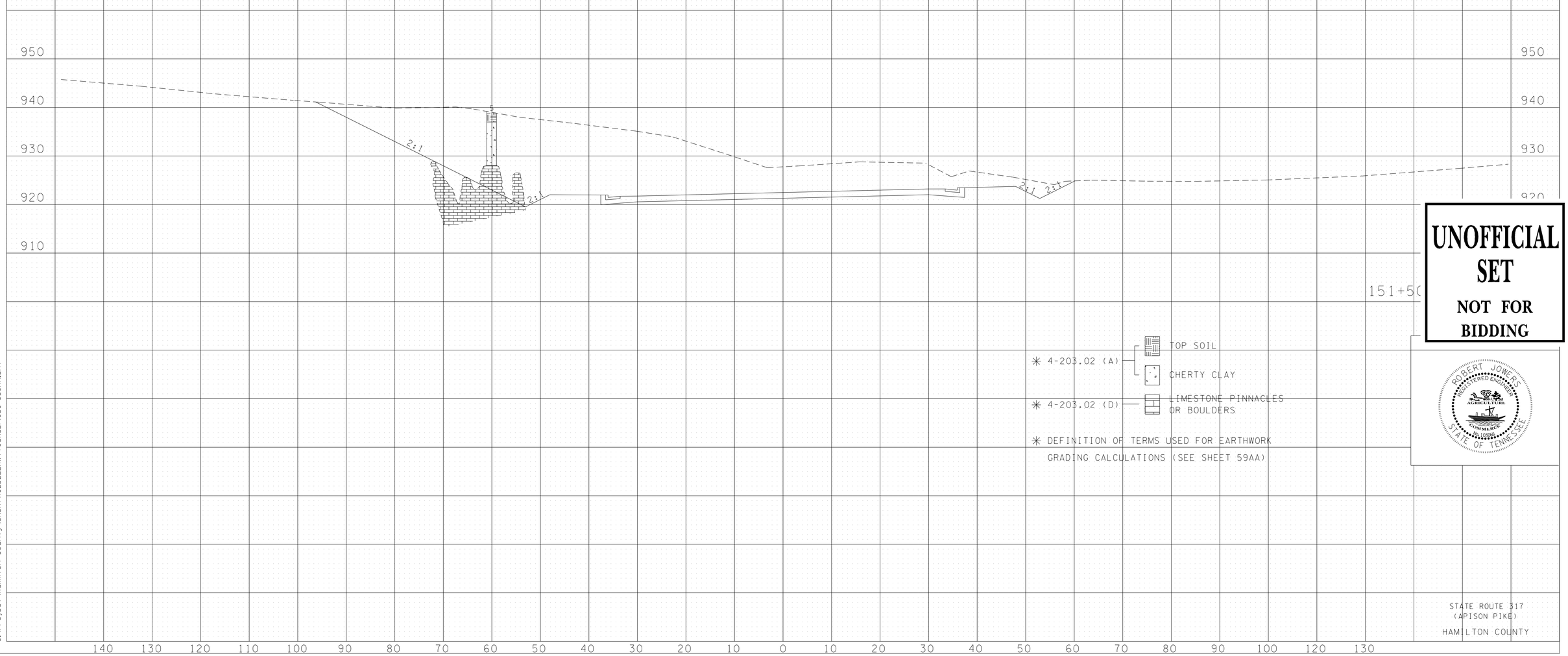
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59S |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 147+00 TO STATION 159+50




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)

HAMILTON COUNTY

6/18/2014 9:11:45 AM
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
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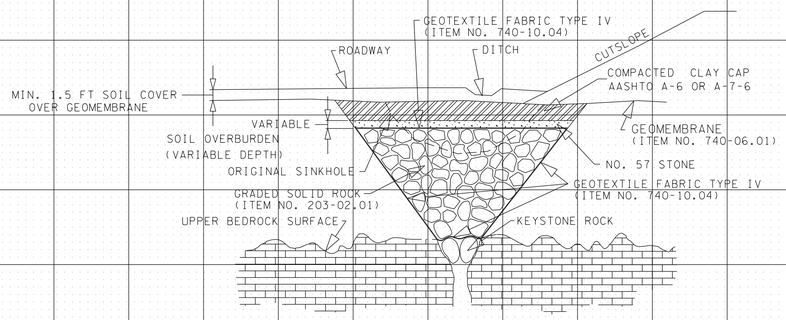
| CONST. | 2014 | STP/NH-317(14) | 59T |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




SINKHOLE TREATMENT 2A

## SINKHOLE TREATMENT 2 AND 2A , INACTIVE

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

SEQUENCE OF CONSTRUCTION:

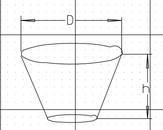
1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. BACKFILL WITH GRADED SOLID ROCK (CLASSIFICATION 203.02, BORROW EXCAVATION) UP TO SPECIFIED GRADE.
4. PLACE GEOTEXTILE FABRIC TYPE IV ON TOP OF GRADED SOLID ROCK PLACE NO. 57 STONE ON TOP OF GETEXTILE FABRIC.
5. CONSTRUCT COMPACTED CLAY CAP. SOIL SHOULD BE OF TYPE AASHTO A-6 OR A-7-6.

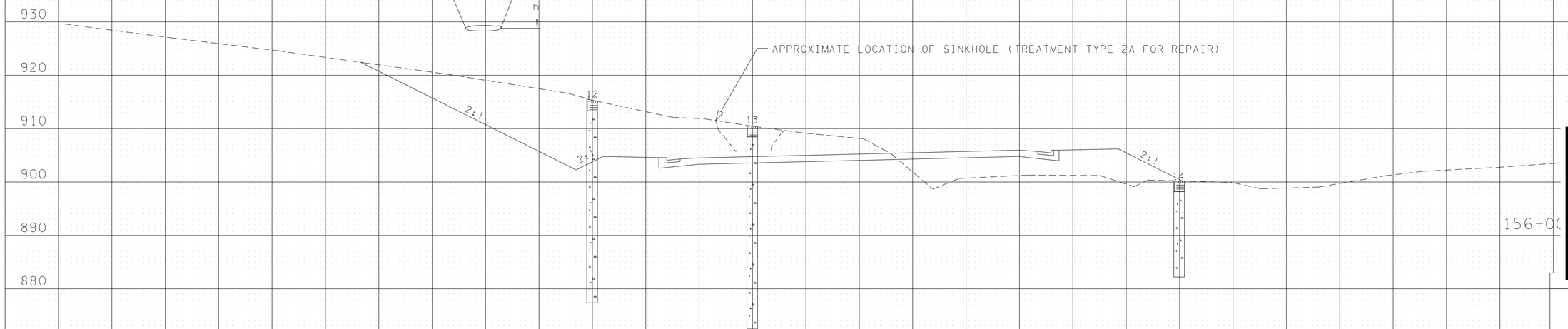
FOR 2A ACTIVE ONLY

6. PLACE GEOMEMBRANE ON TOP OF SOIL CAP BEFORE CONSTRUCTION OF ANY OVERLYING STRUCTURES OR EMBANKMENTS. THERE SHOULD BE A MINIMUM OF 1.5 FT. OF SOIL PLACED OVER THE GEOMEMBRANE.
7. DITCH SHOULD BE PAVED OR LINED WITH A GEOMEMBRANE.

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

$$\text{VOL. } 1{:}1 \approx 0.13D^3 - (0.5D - h)^3$$




ITEM NO. 203-02.01 GRADED SOLID ROCK

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

✳ 4-203.02 (A) — TOP SOIL / CHERTY CLAY

✳ DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS (SEE SHEET 59AA)

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102926
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)
HAMILTON COUNTY

6/18/2014 9:09:56 AM
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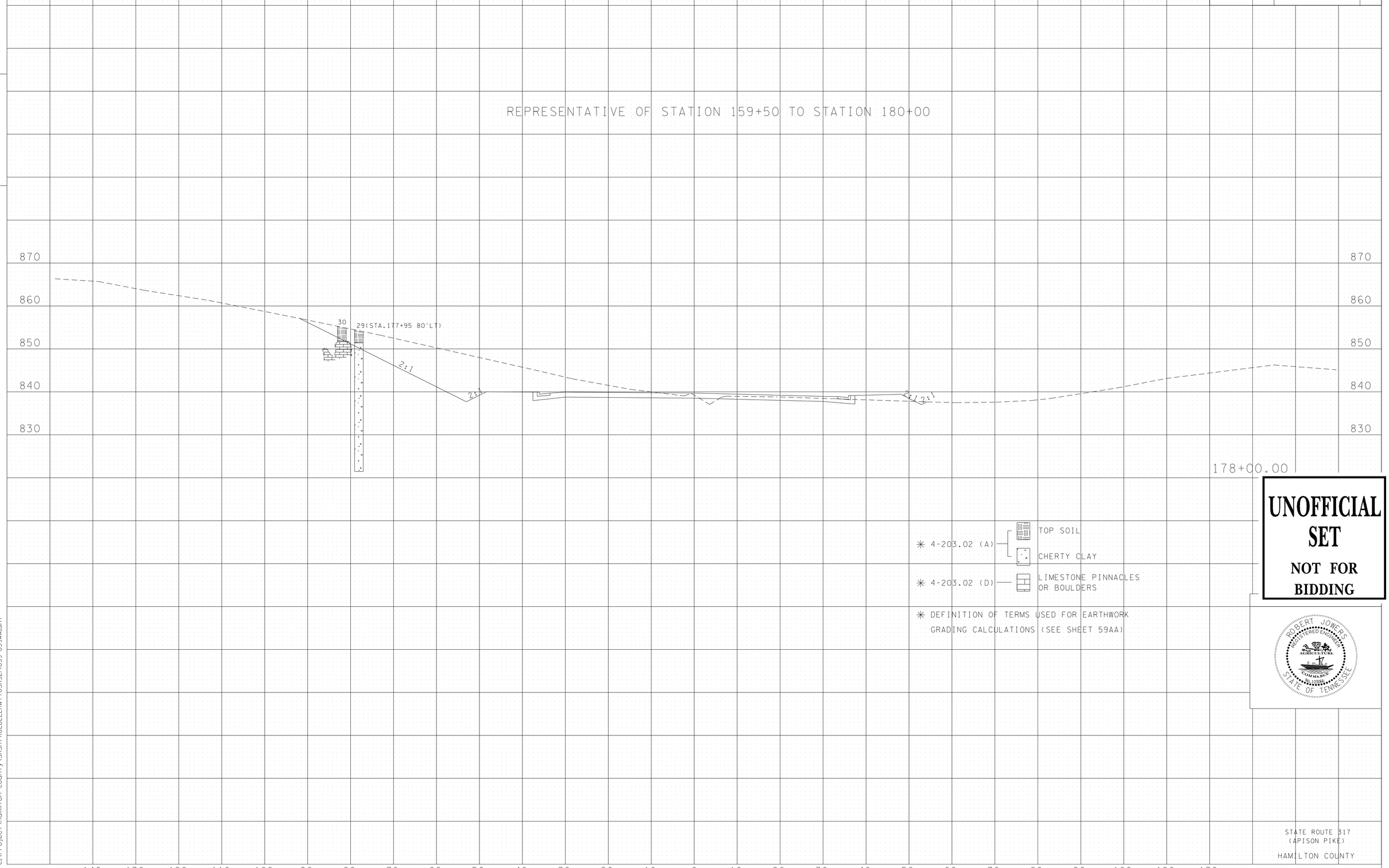
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59U |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 159+50 TO STATION 180+00




✳ DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS (SEE SHEET 59AA)

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 109008
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)

HAMILTON COUNTY

6/18/2014 9:10:09 AM
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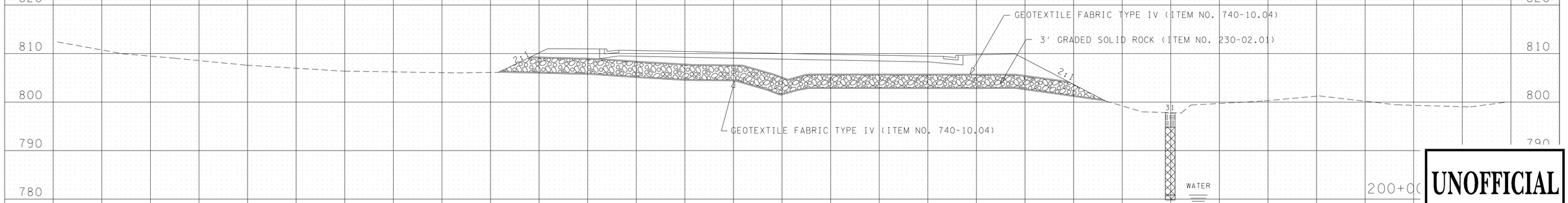
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59V |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 180+00 TO STATION 200+00




UNOFFICIAL SET

NOT FOR BIDDING

ITEM NO. 203-02.01 GRADED SOLID ROCK

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

✳ 4-203.02 (A) — TOP SOIL / CLAY

✳ DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS (SEE SHEET 59AA)

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 102966
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)
HAMILTON COUNTY

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 120 130

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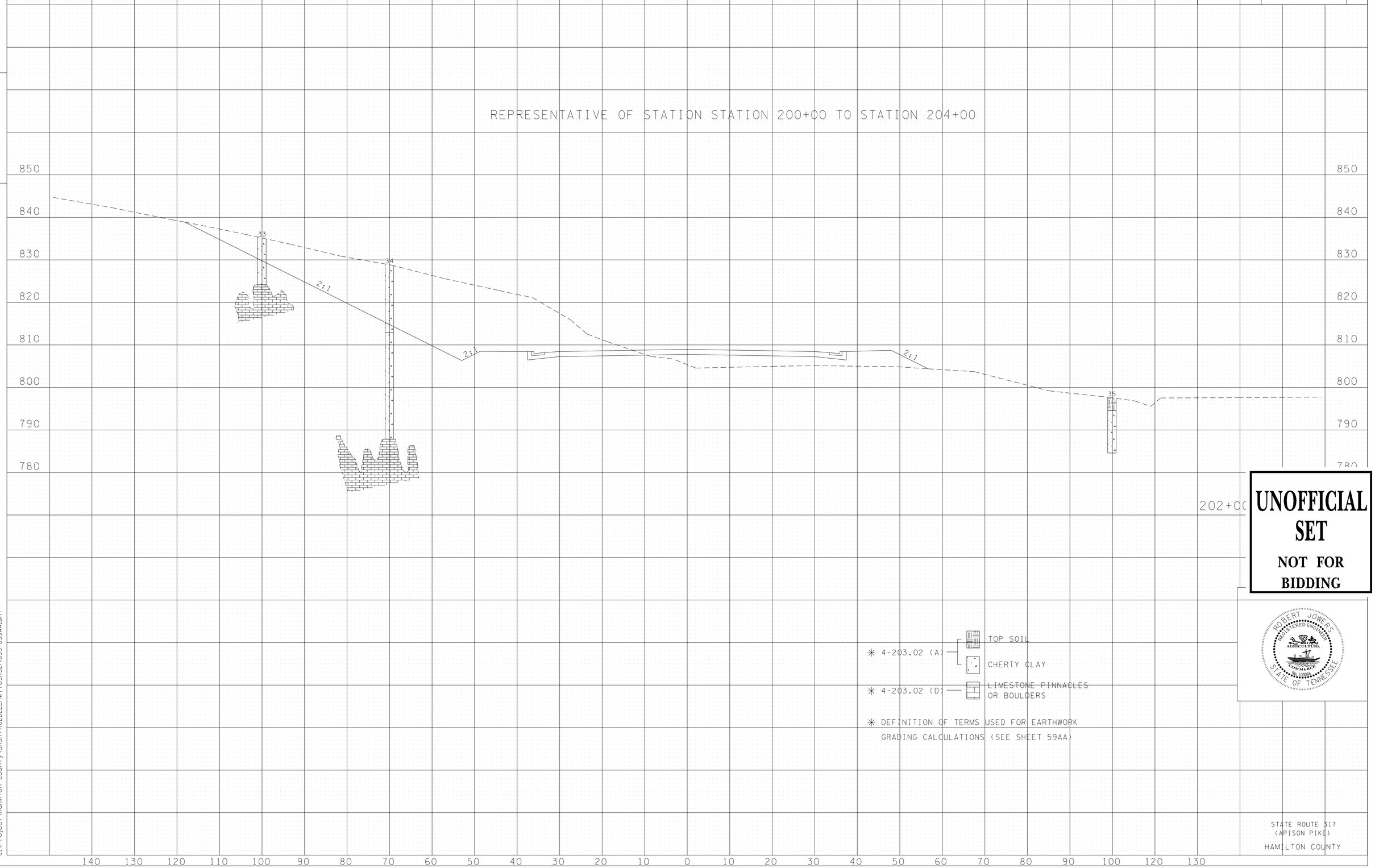
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59W |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION STATION 200+00 TO STATION 204+00




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 100000
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)
HAMILTON COUNTY

6/18/2014 9:10:38 AM
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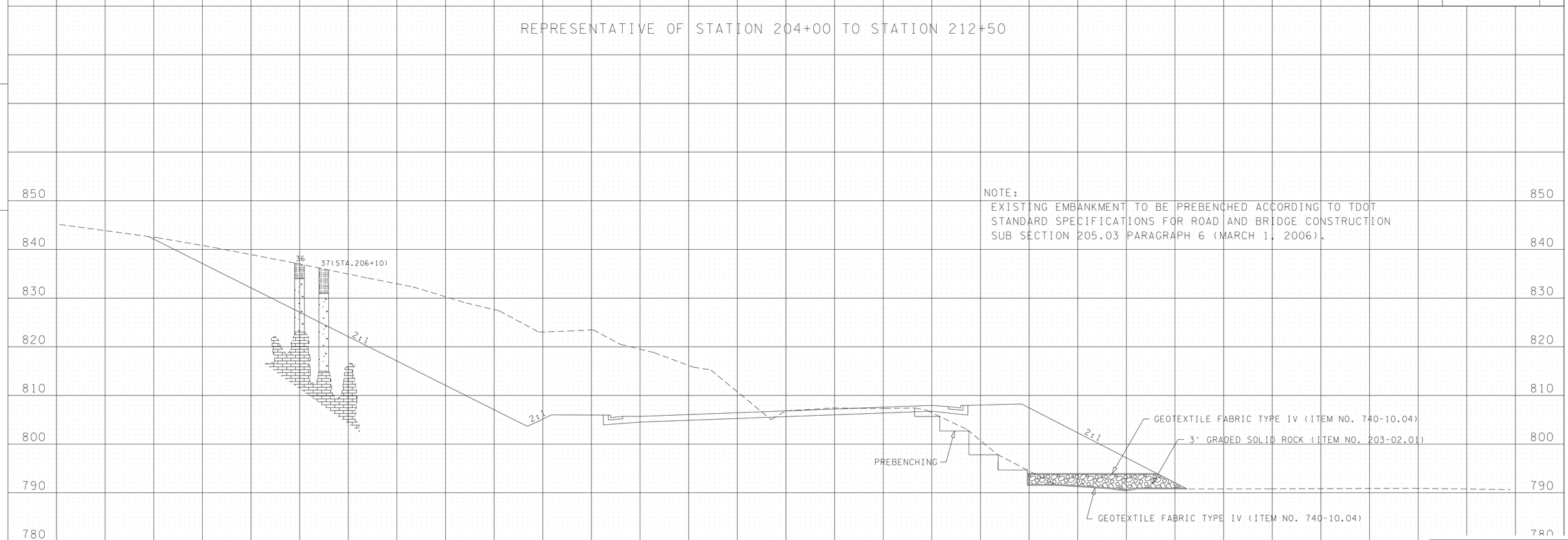
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59X |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 204+00 TO STATION 212+50




NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

✳ 4-203.02 (A) — TOP SOIL, CHERTY CLAY

✳ 4-203.02 (D) — LIMESTONE PINNACLES OR BOULDERS

✳ DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS (SEE SHEET 59AA)

ITEM NO. 203-02.01 GRADED SOLID ROCK

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

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)
HAMILTON COUNTY

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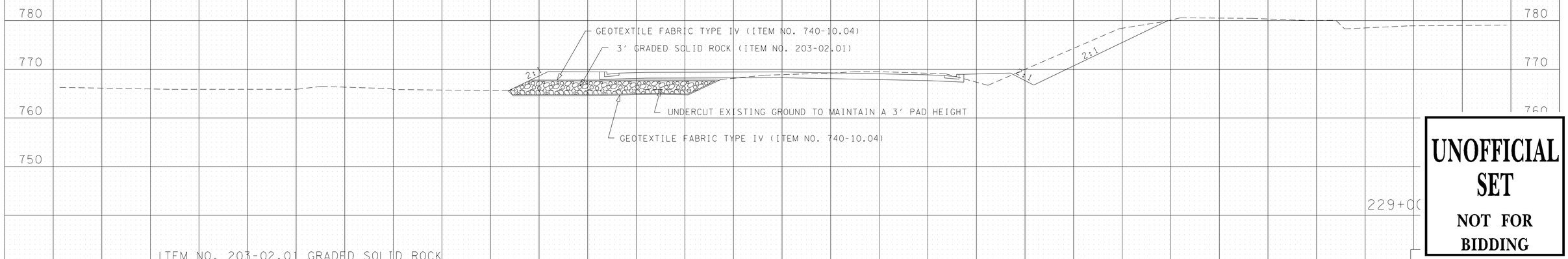
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14) | 59Y |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 224+50 TO STATION 230+00




ITEM NO. 203-02.01 GRADED SOLID ROCK

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

**UNOFFICIAL SET**

**NOT FOR BIDDING**

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE COMMERCE
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)
HAMILTON COUNTY

6/18/2014 9:20:00 AM
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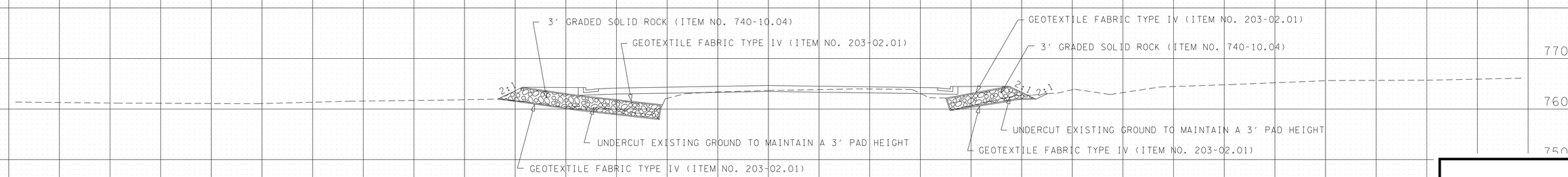
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2014 | STP/NH-317(14)59 | Z |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 229+50 TO STATION 259+50




**UNOFFICIAL SET**

**NOT FOR BIDDING**

ITEM NO. 203-02.01 GRADED SOLID ROCK

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

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 110595
STATE OF TENNESSEE

STATE ROUTE 317
(APISON PIKE)
HAMILTON COUNTY

6/18/2014 9:21:13 AM
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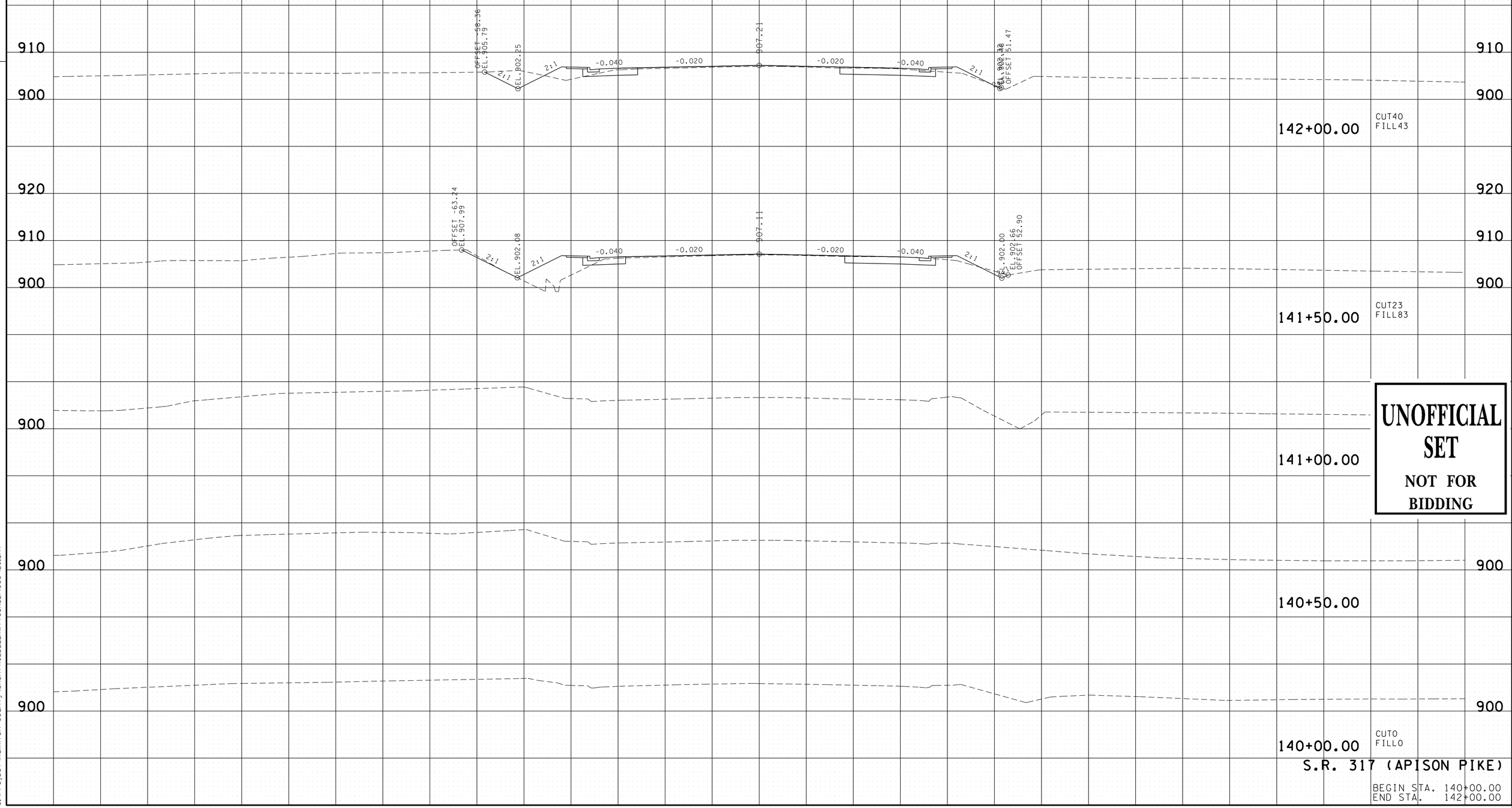
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 47 |
| CONST. | 2014 | STP/NH-317(14) | 60 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 140+00.00
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16-JUN-2014 08:30
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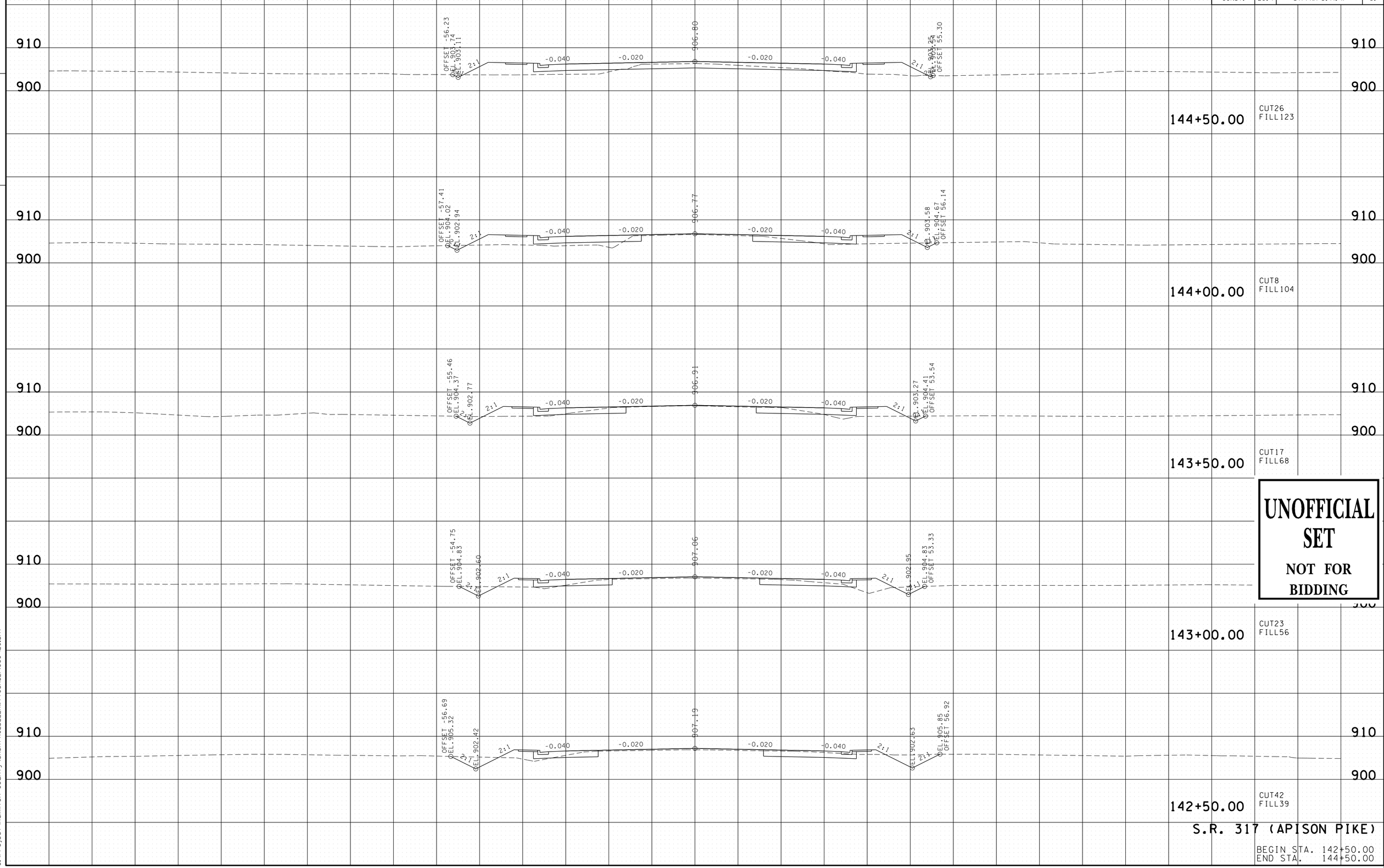
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 48 |
| CONST. | 2014 | STP/NH-317(14) | 61 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 142+50.00
END STA. 144+50.00

16-JUN-2014 08:30
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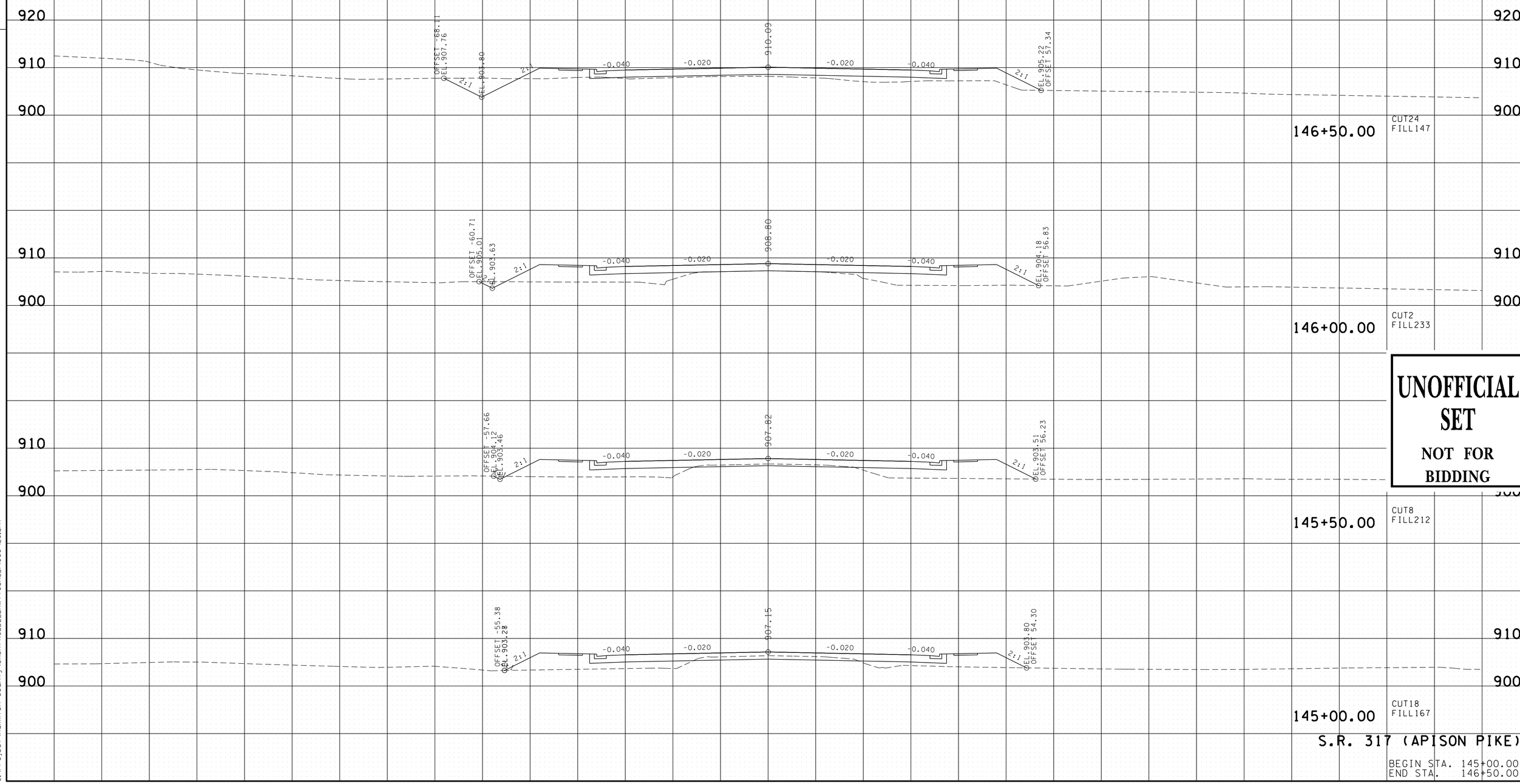
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 49 |
| CONST. | 2014 | STP/NH-317(14) | 62 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 145+00.00
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16-JUN-2014 08:30
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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 50 |
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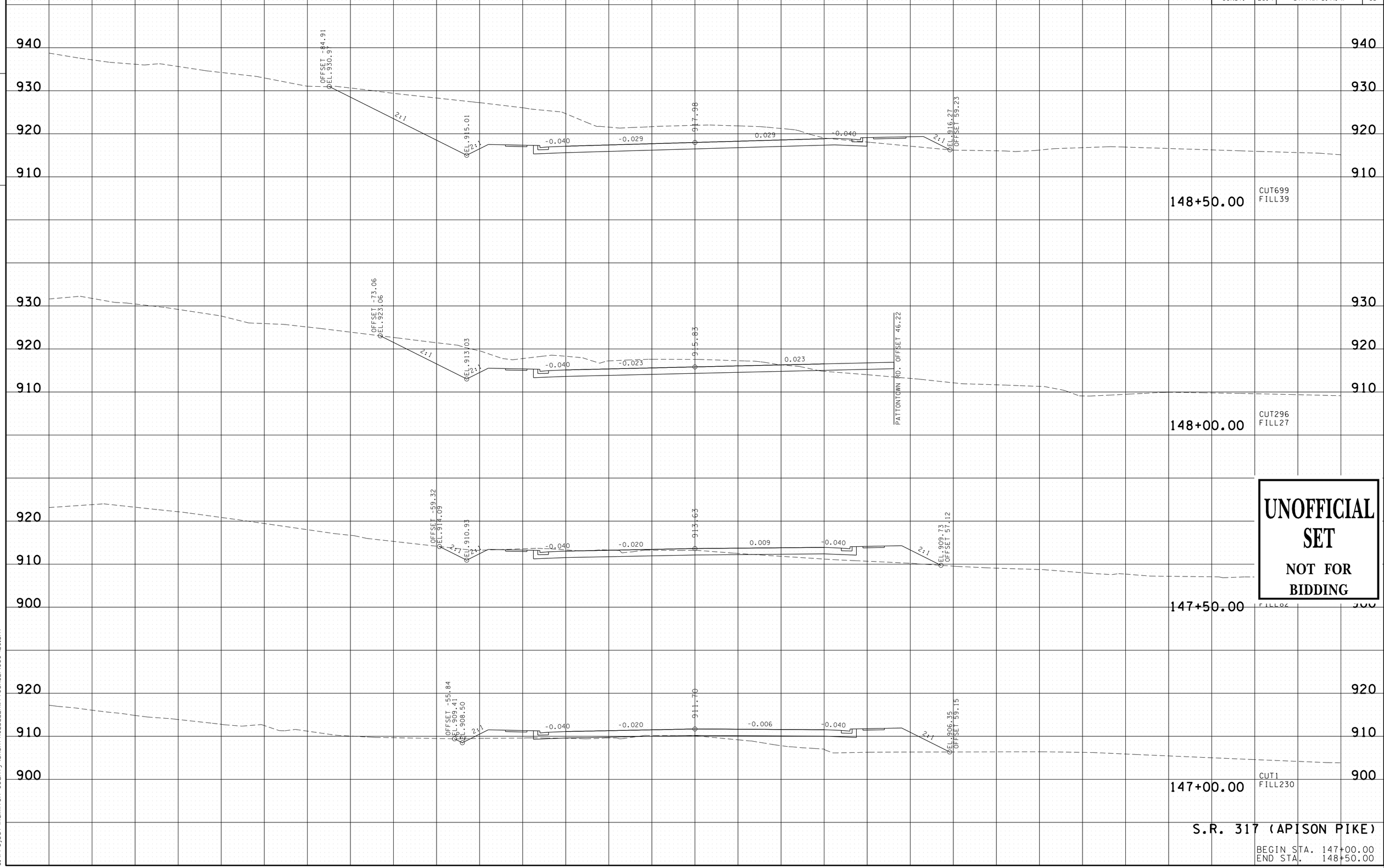
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 147+00.00
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16-JUN-2014 08:30
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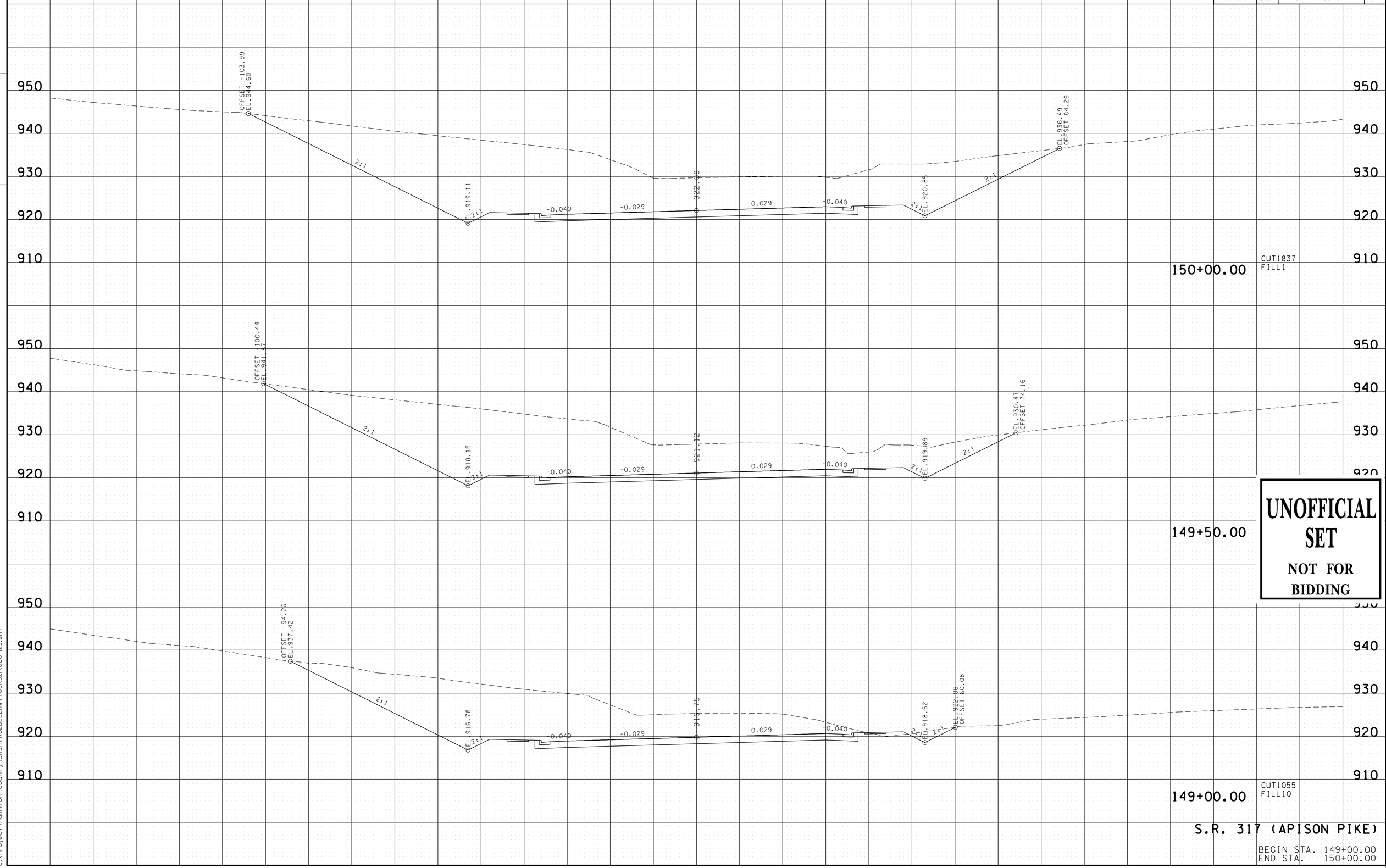
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 51 |
| CONST. | 2014 | STP/NH-317(14) | 64 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 149+00.00
END STA. 150+00.00

16-JUN-2014 08:30
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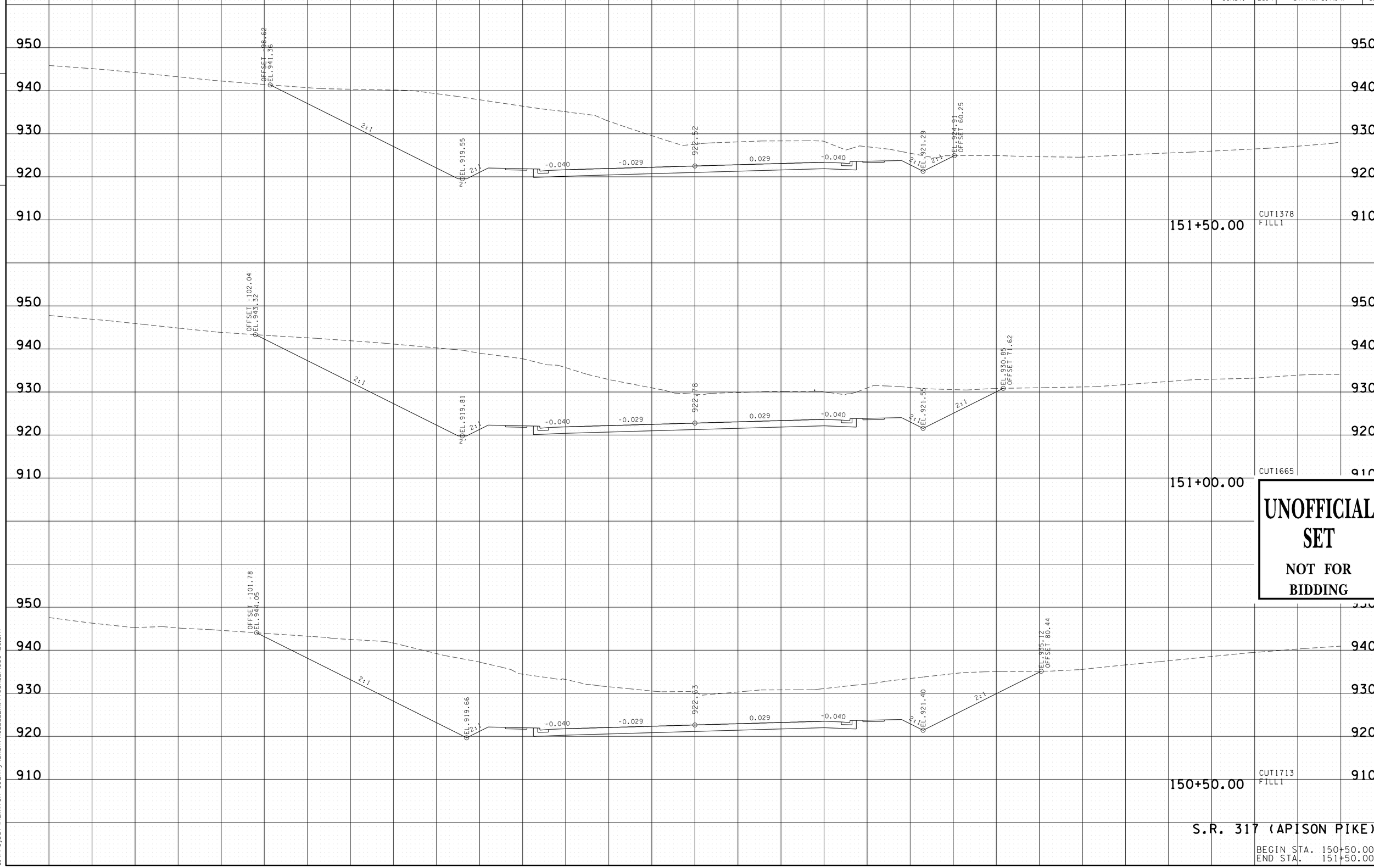
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 52 |
| CONST. | 2014 | STP/NH-317(14) | 65 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 150+50.00
END STA. 151+50.00

16-JUN-2014 08:30
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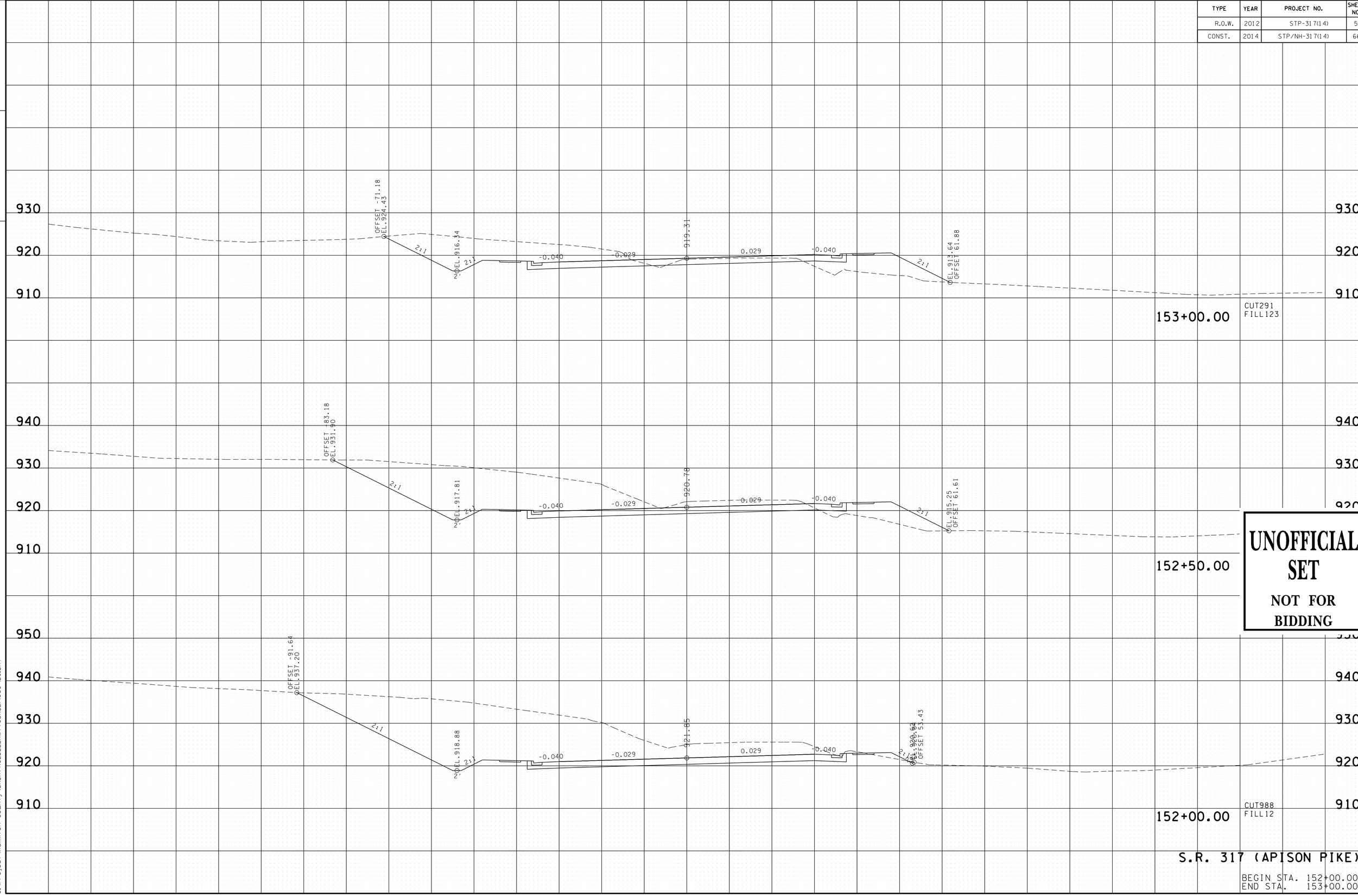
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 53 |
| CONST. | 2014 | STP/NH-317(14) | 66 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 152+00.00
END STA. 153+00.00

16-JUN-2014 08:30
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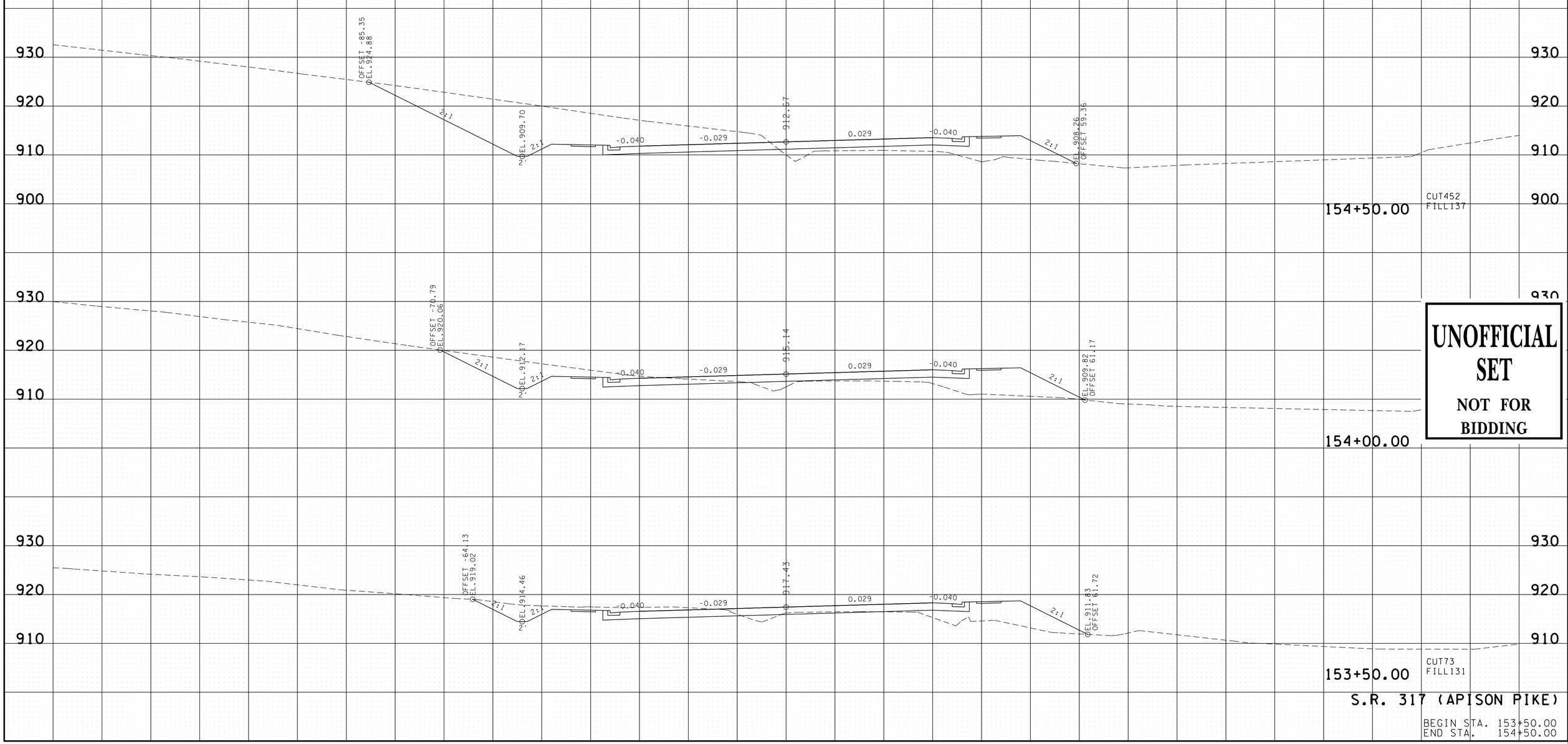
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 54 |
| CONST. | 2014 | STP/NH-317(14) | 67 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 153+50.00
END STA. 154+50.00

16-JUN-2014 08:30
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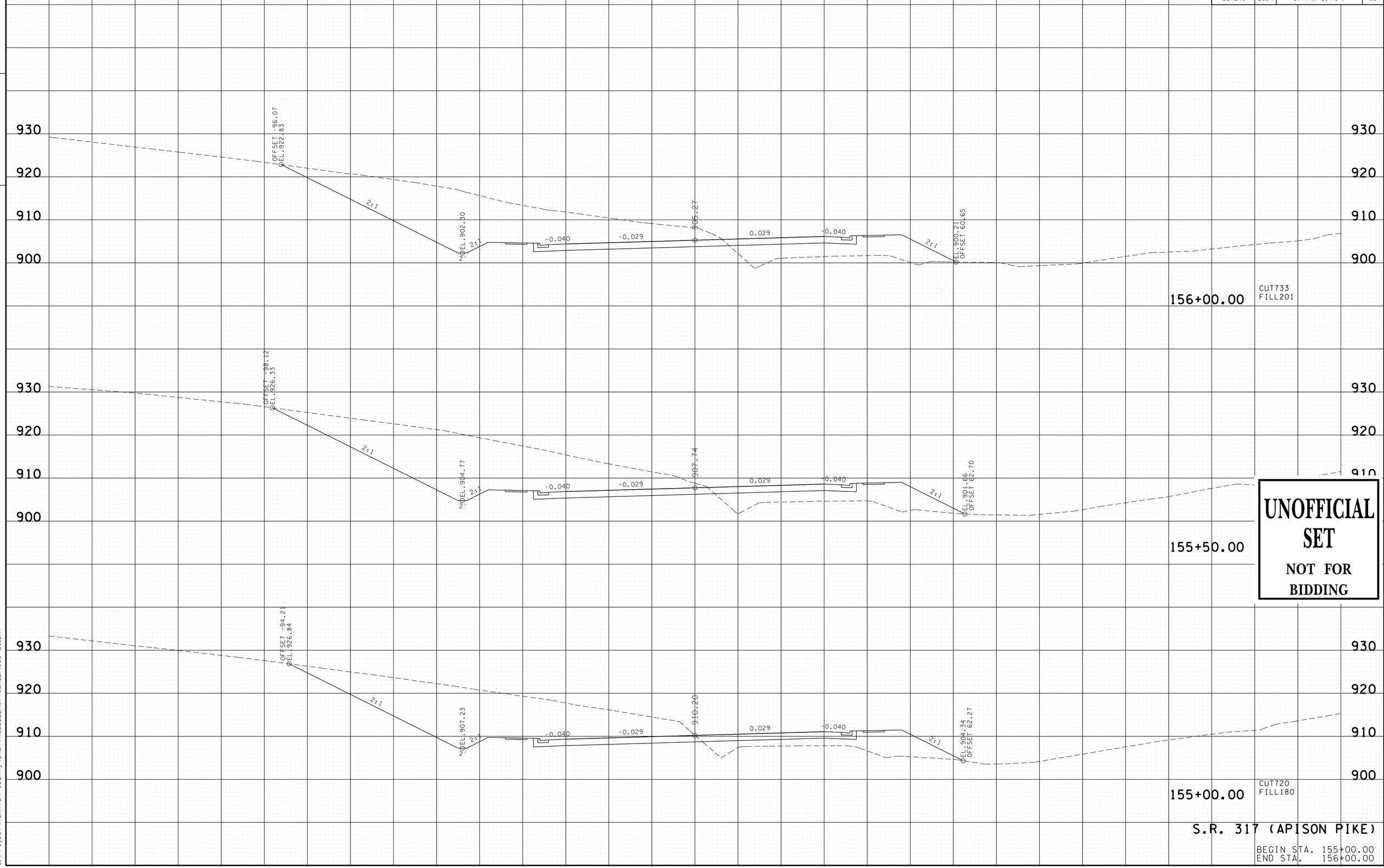
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 55 |
| CONST. | 2014 | STP/NH-317(14) | 68 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 155+00.00
END STA. 156+00.00

16-JUN-2014 08:30
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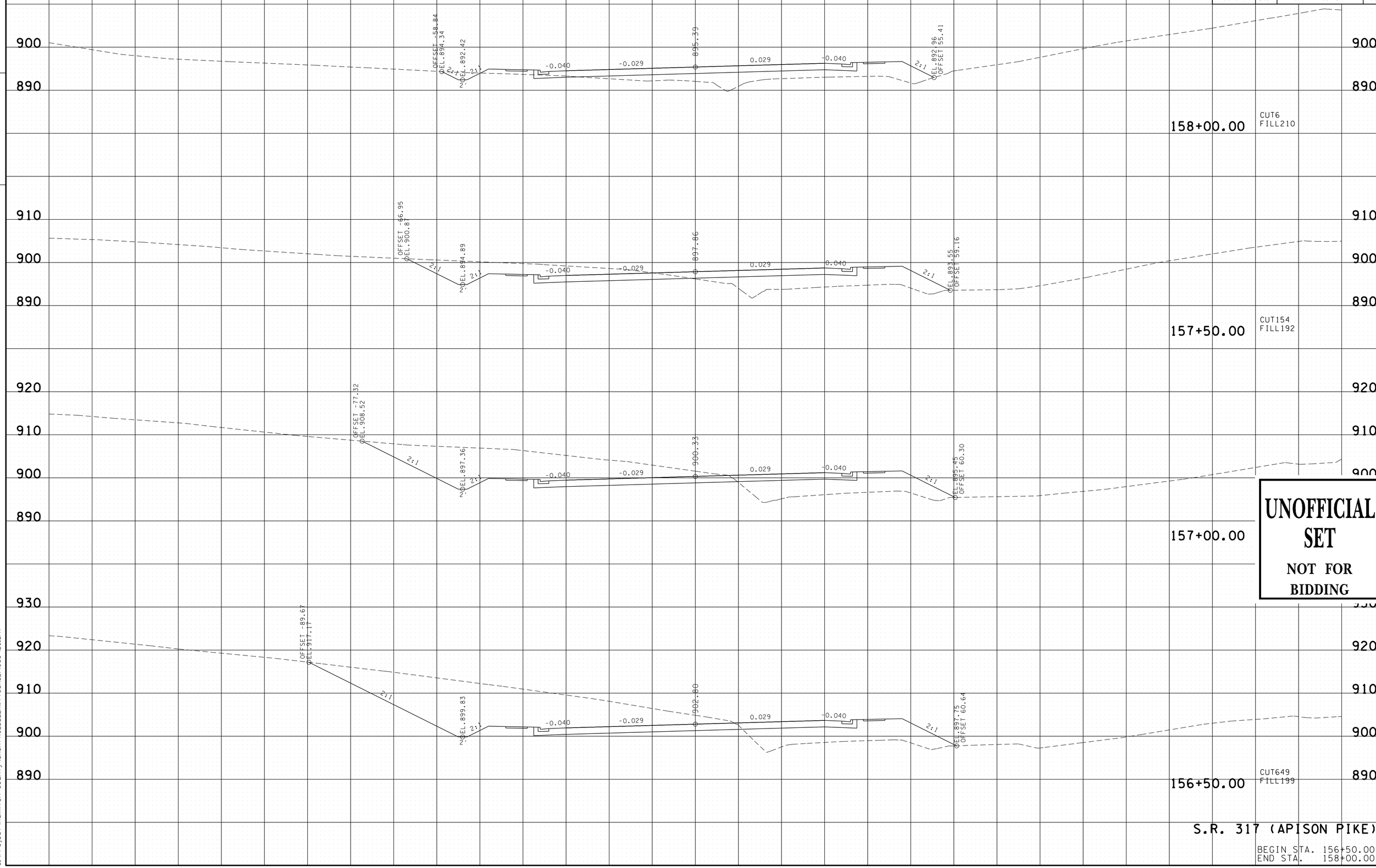
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 56 |
| CONST. | 2014 | STP/NH-317(14) | 69 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 156+50.00
END STA. 158+00.00

16-JUN-2014 08:30
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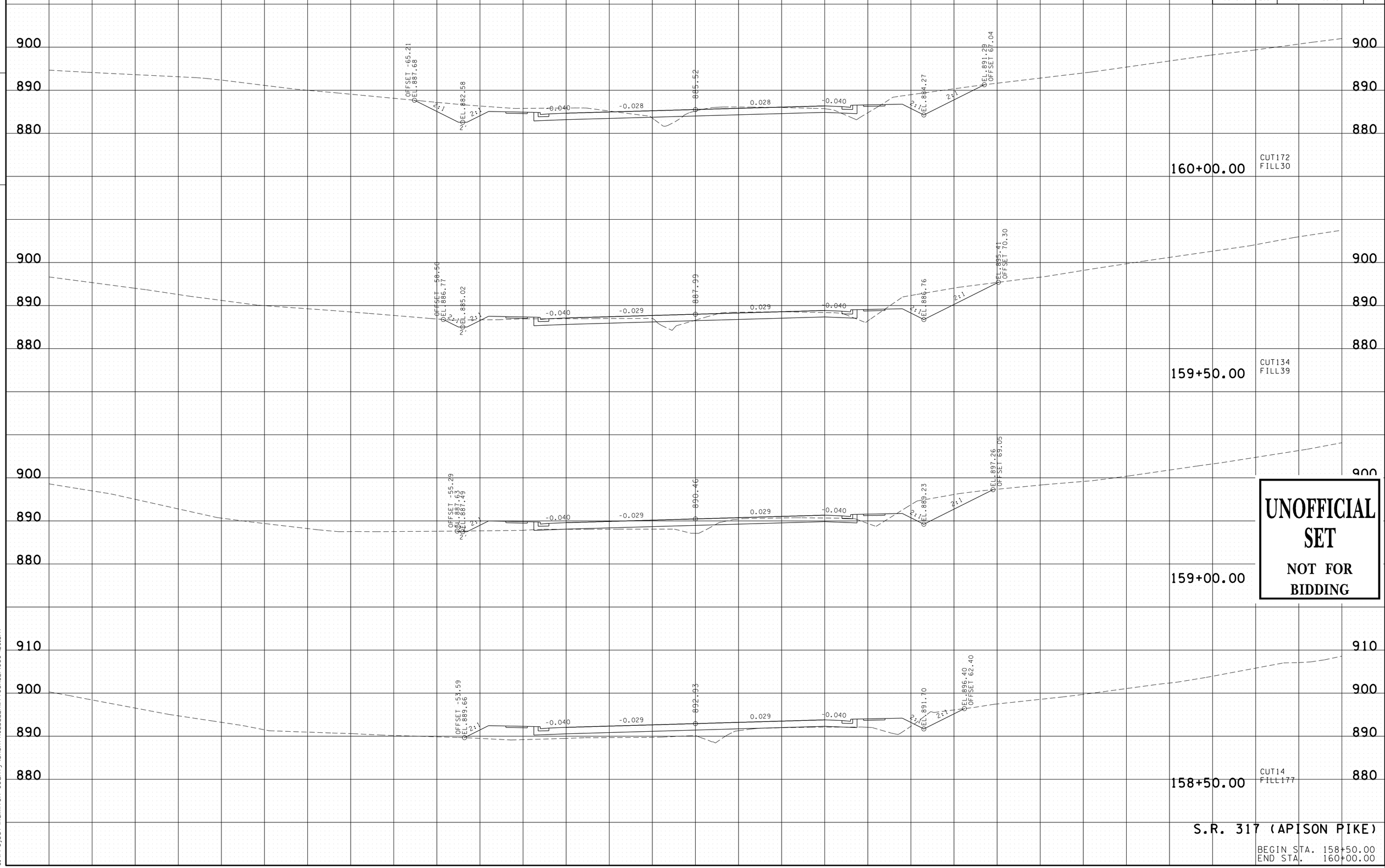
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 57 |
| CONST. | 2014 | STP/NH-317(14) | 70 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 158+50.00
END STA. 160+00.00

16-JUN-2014 08:30
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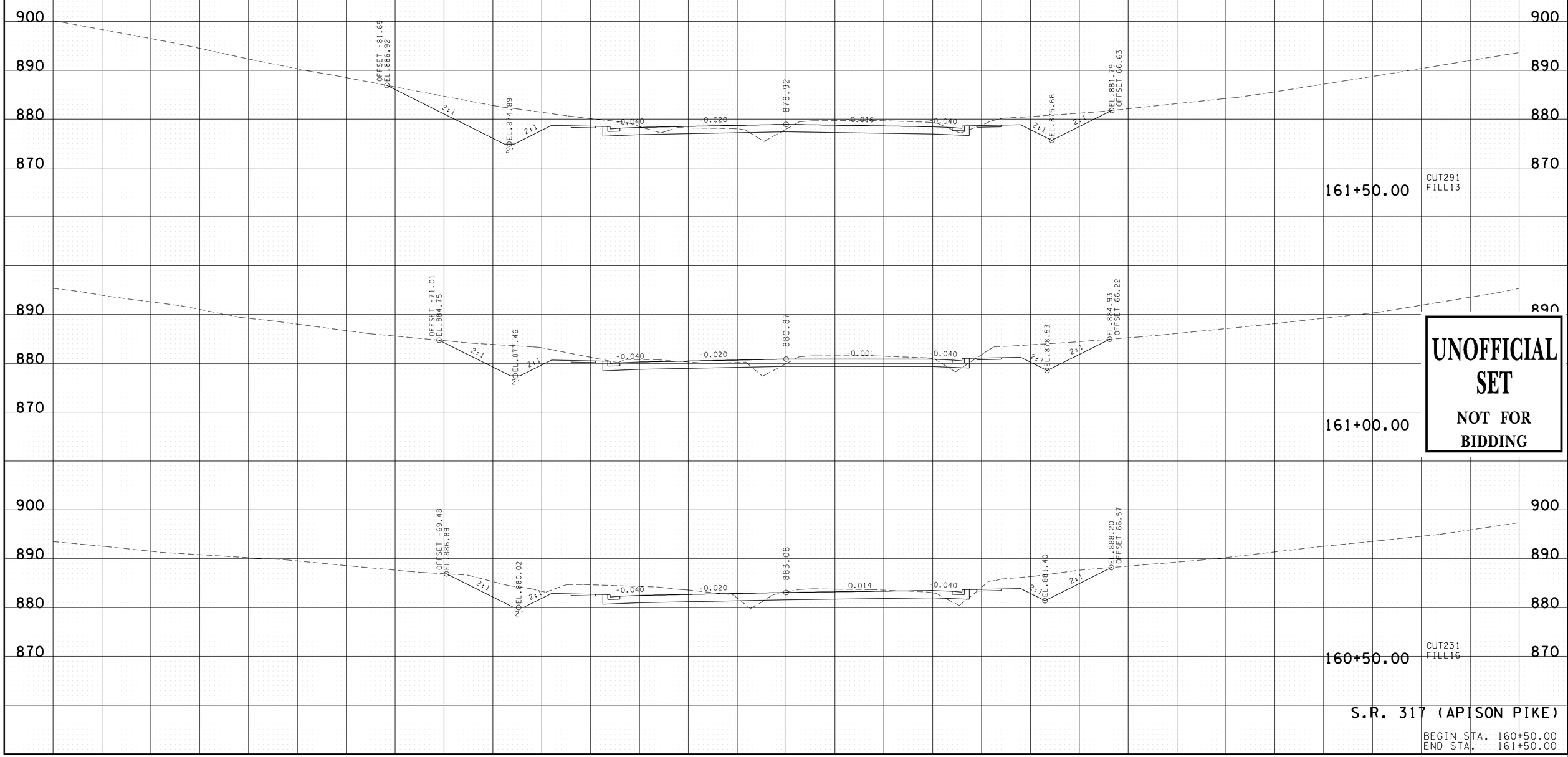
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 58 |
| CONST. | 2014 | STP/NH-317(14) | 71 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 160+50.00
END STA. 161+50.00

16-JUN-2014 08:30
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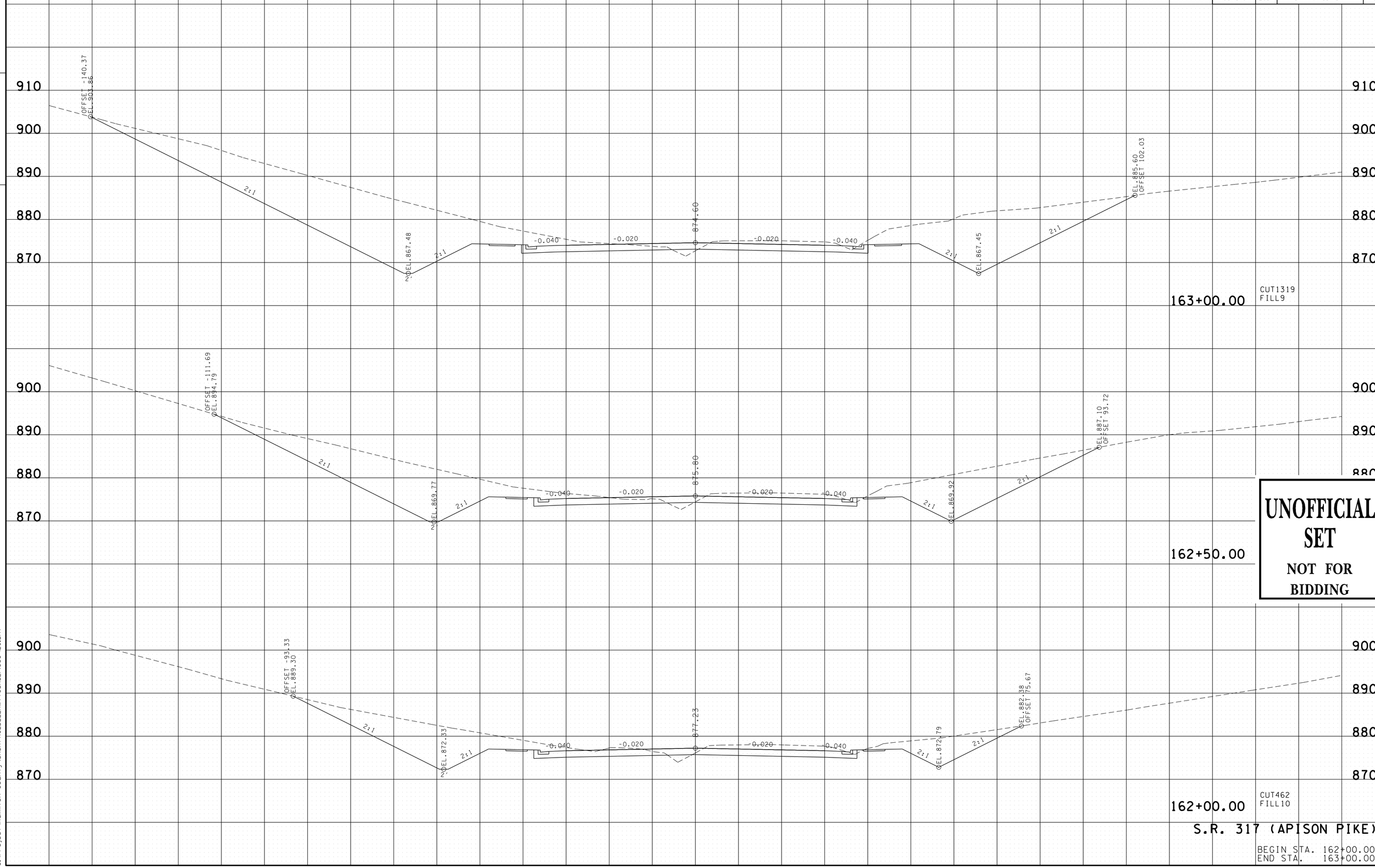
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 59 |
| CONST. | 2014 | STP/NH-317(14) | 72 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




S.R. 317 (APISON PIKE)

BEGIN STA. 162+00.00
END STA. 163+00.00

16-JUN-2014 08:30
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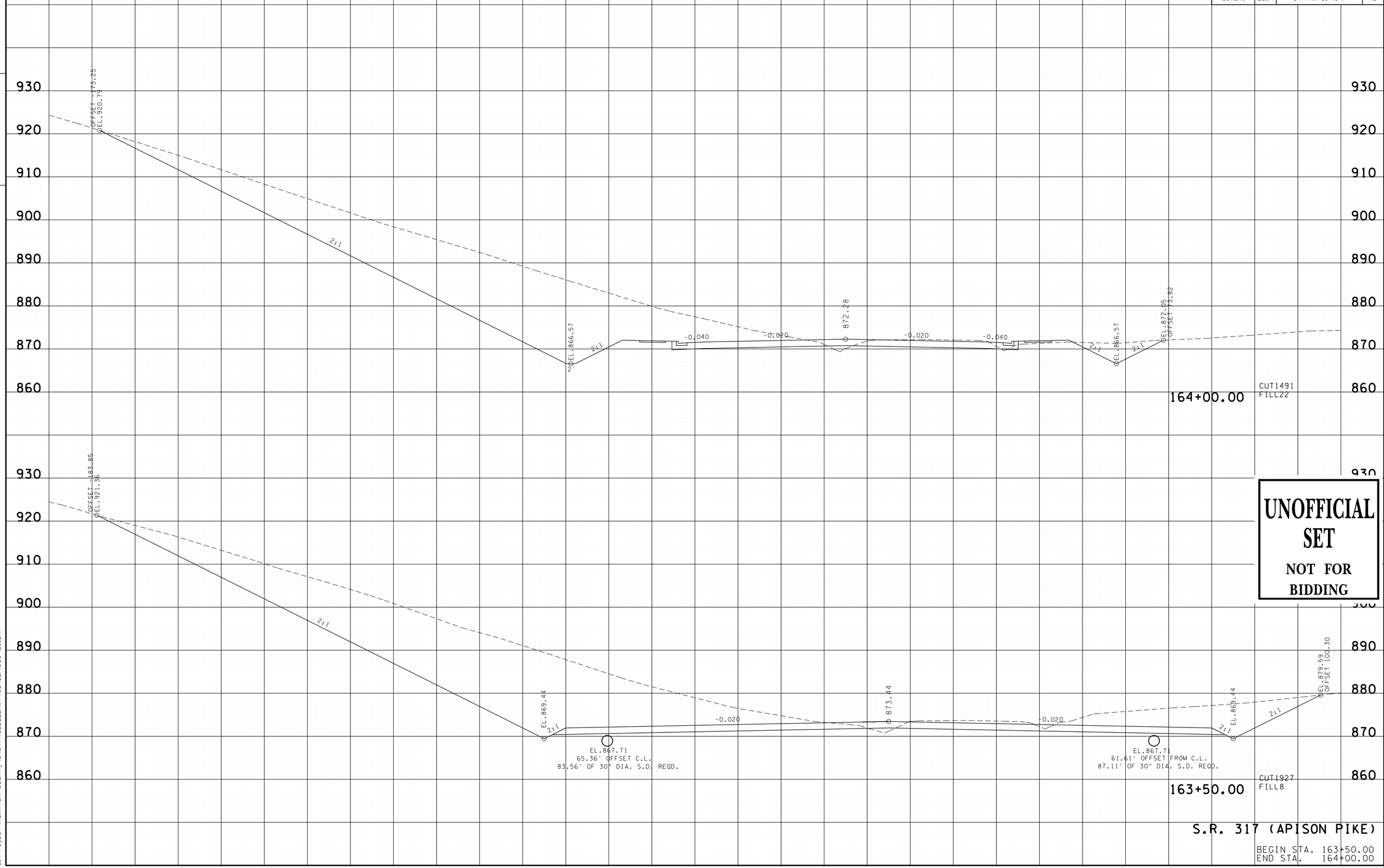
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 60 |
| CONST. | 2014 | STP/NH-317(14) | 73 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 163+50.00
END STA. 164+00.00

16-JUN-2014 08:30
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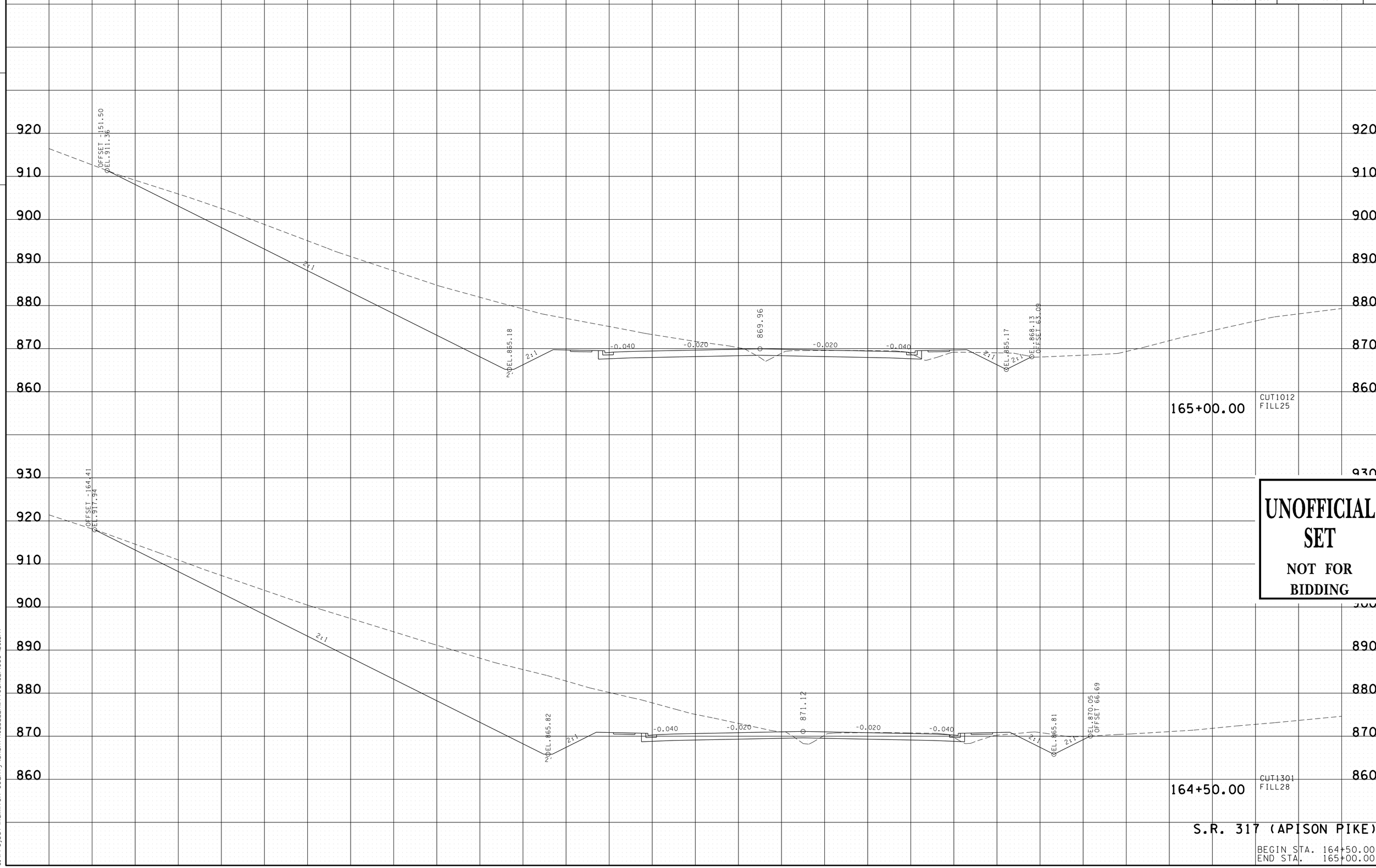
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 61 |
| CONST. | 2014 | STP/NH-317(14) | 74 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 164+50.00
END STA. 165+00.00

16-JUN-2014 08:30
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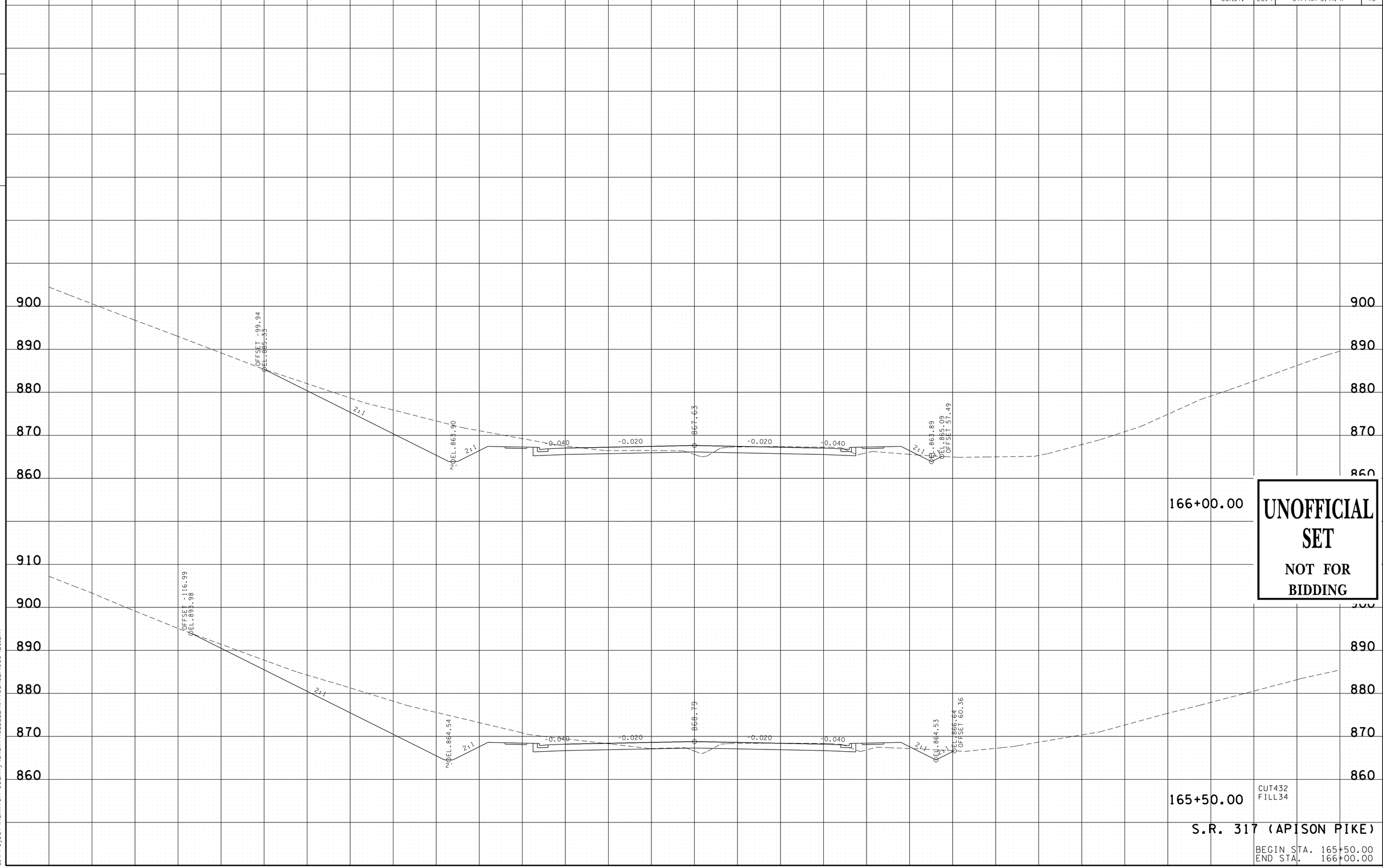
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 62 |
| CONST. | 2014 | STP/NH-317(14) | 75 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 165+50.00
END STA. 166+00.00

16-JUN-2014 08:30
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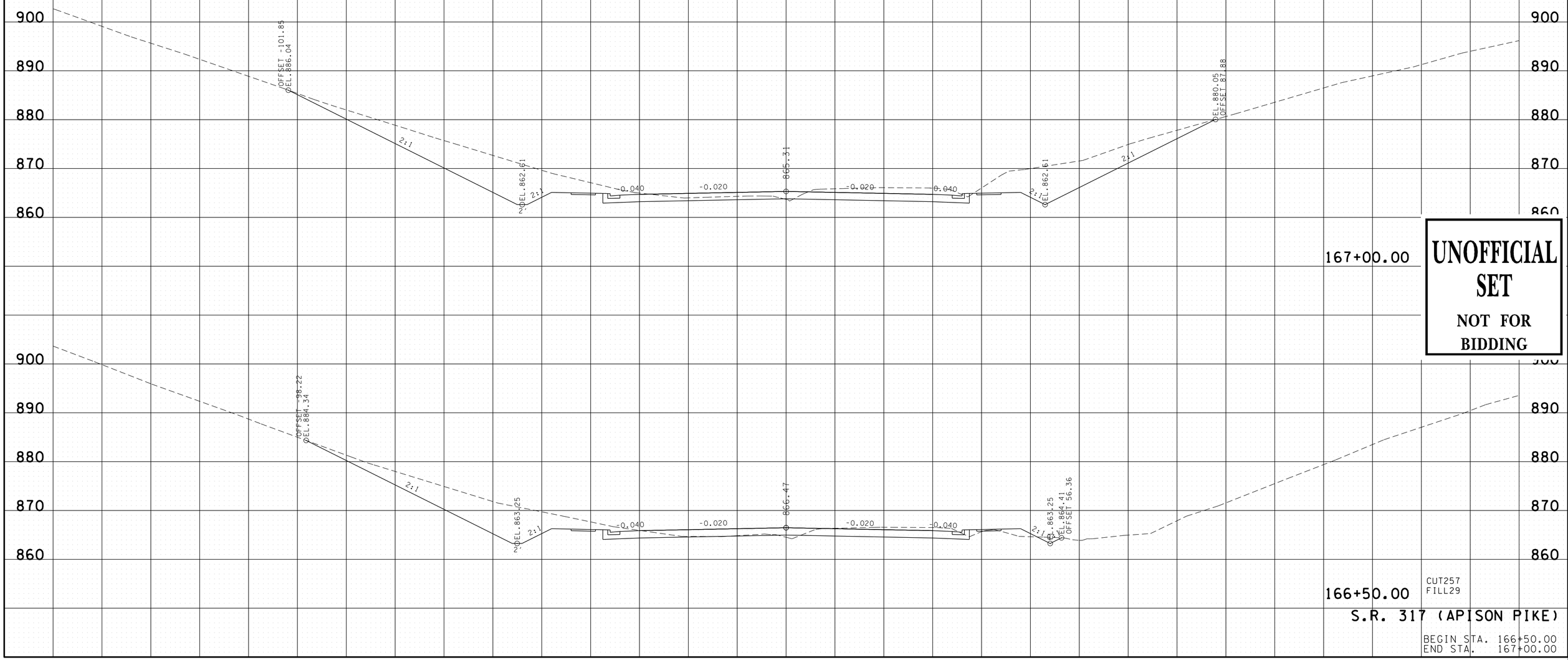
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 63 |
| CONST. | 2014 | STP/NH-317(14) | 76 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 166+50.00
END STA. 167+00.00

16-JUN-2014 08:30
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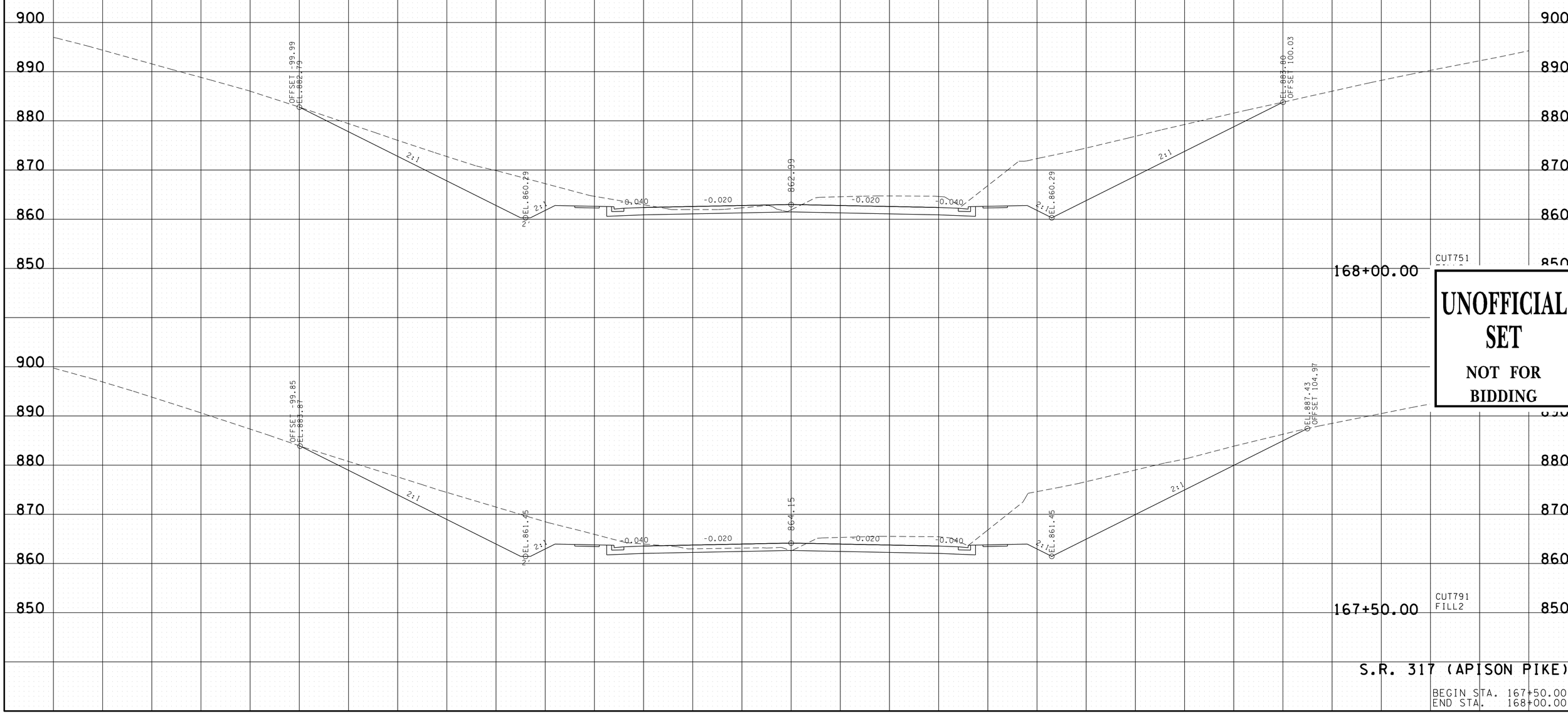
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 64 |
| CONST. | 2014 | STP/NH-317(14) | 77 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 167+50.00
END STA. 168+00.00

16-JUN-2014 08:30
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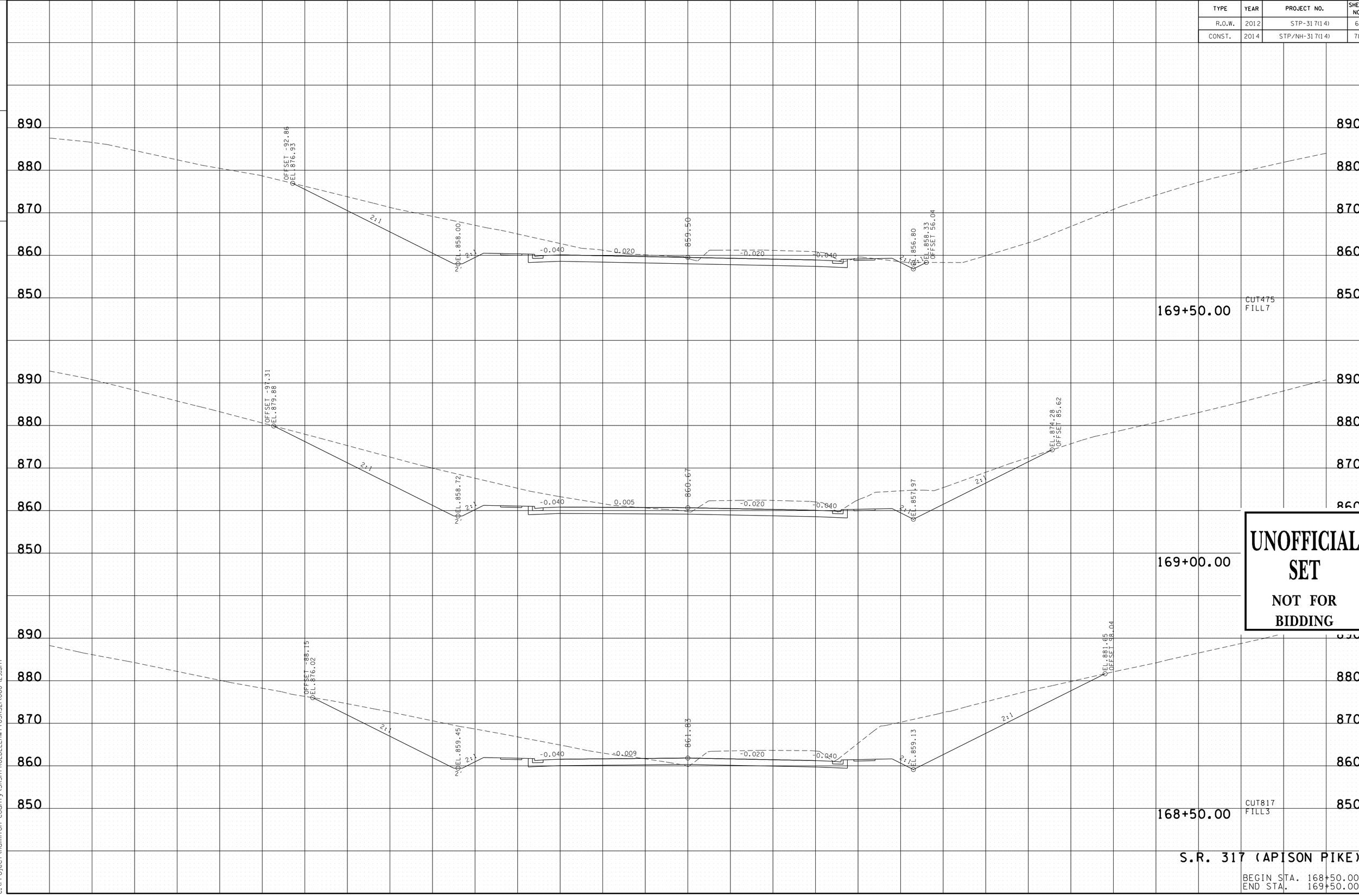
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 65 |
| CONST. | 2014 | STP/NH-317(14) | 78 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 168+50.00
END STA. 169+50.00

16-JUN-2014 08:30
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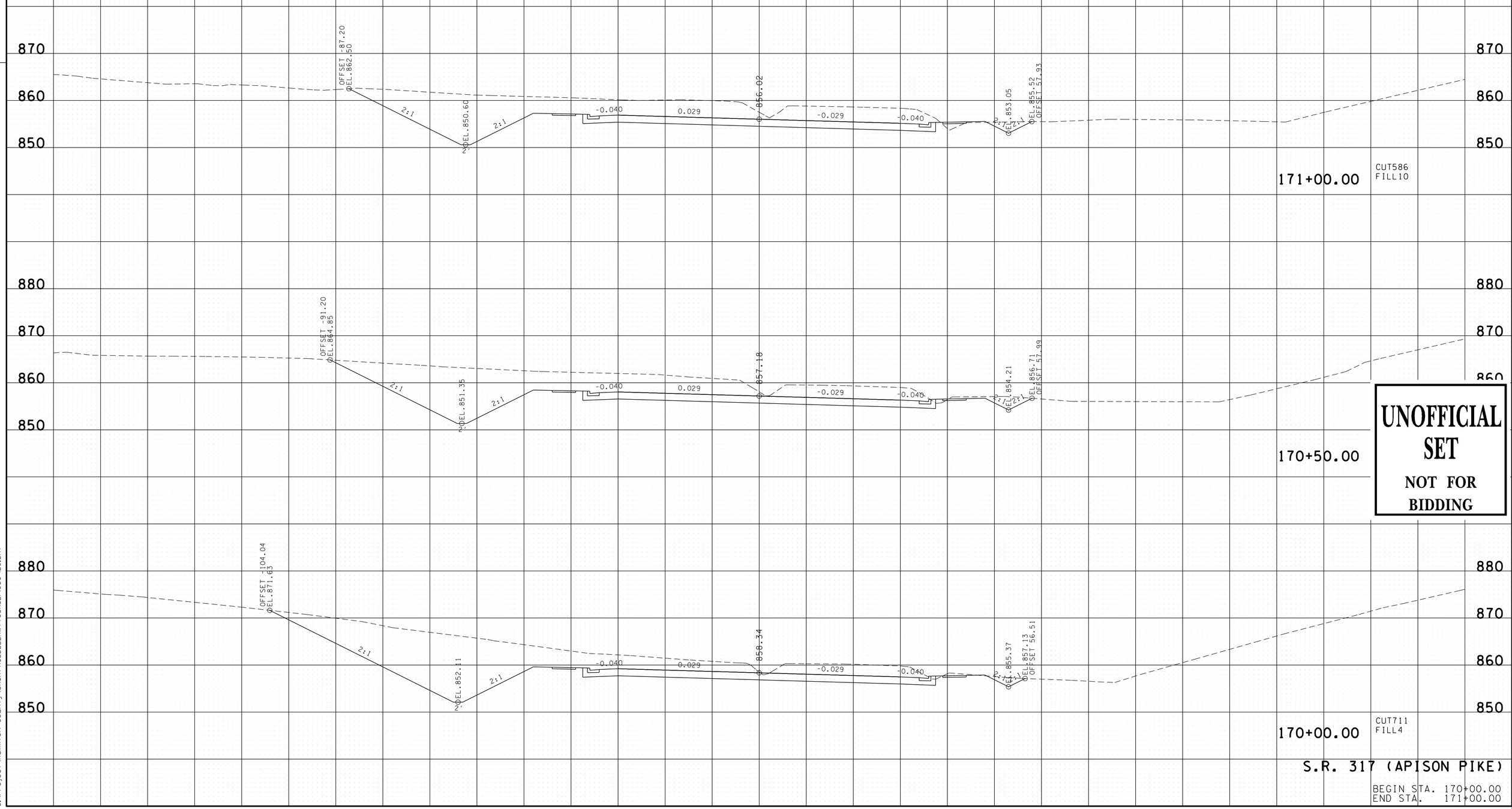
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 66 |
| CONST. | 2014 | STP/NH-317(14) | 79 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




S.R. 317 (APISON PIKE)

BEGIN STA. 170+00.00
END STA. 171+00.00

16-JUN-2014 08:30
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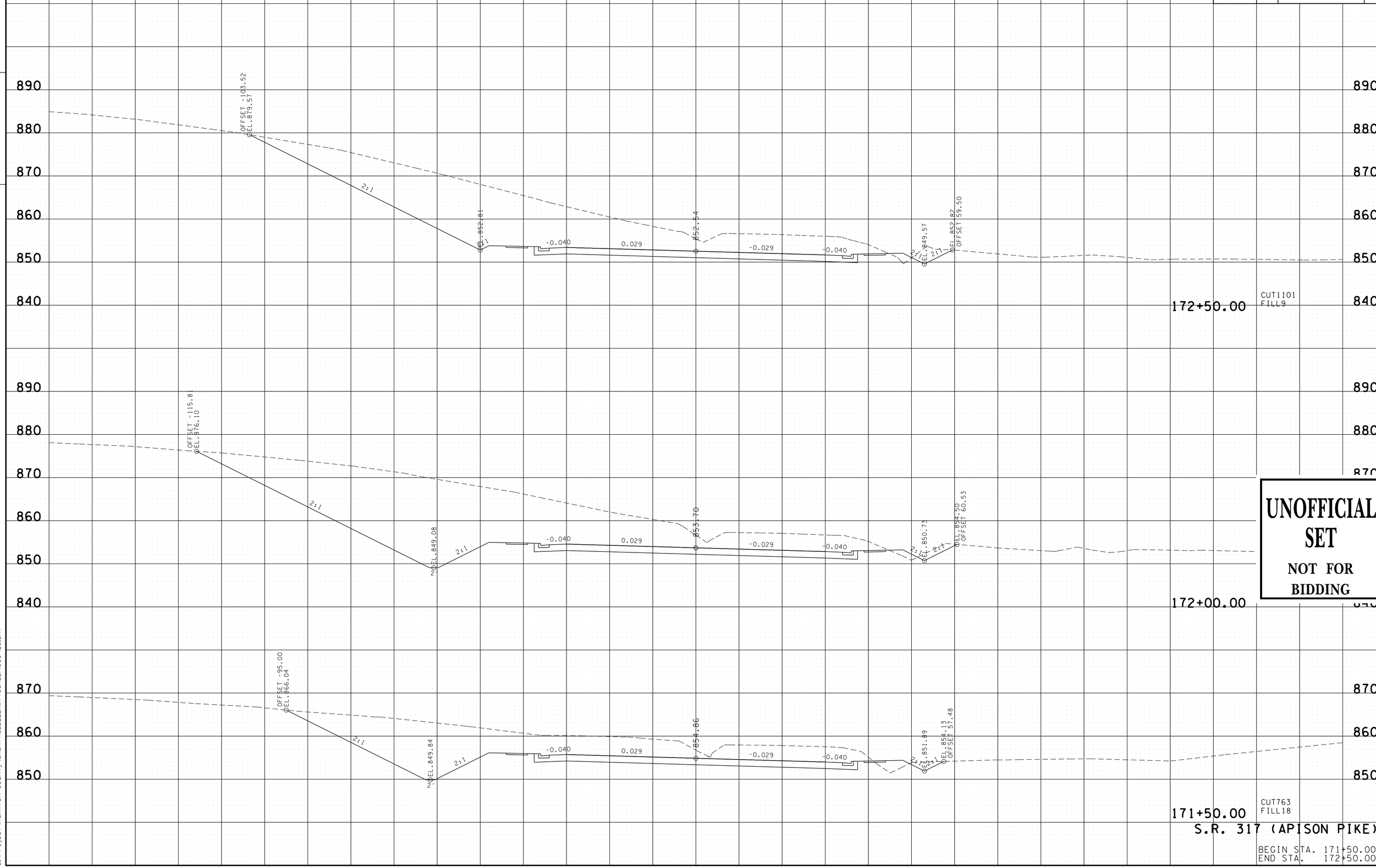
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 67 |
| CONST. | 2014 | STP/NH-317(14) | 80 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 171+50.00
END STA. 172+50.00

16-JUN-2014 08:30
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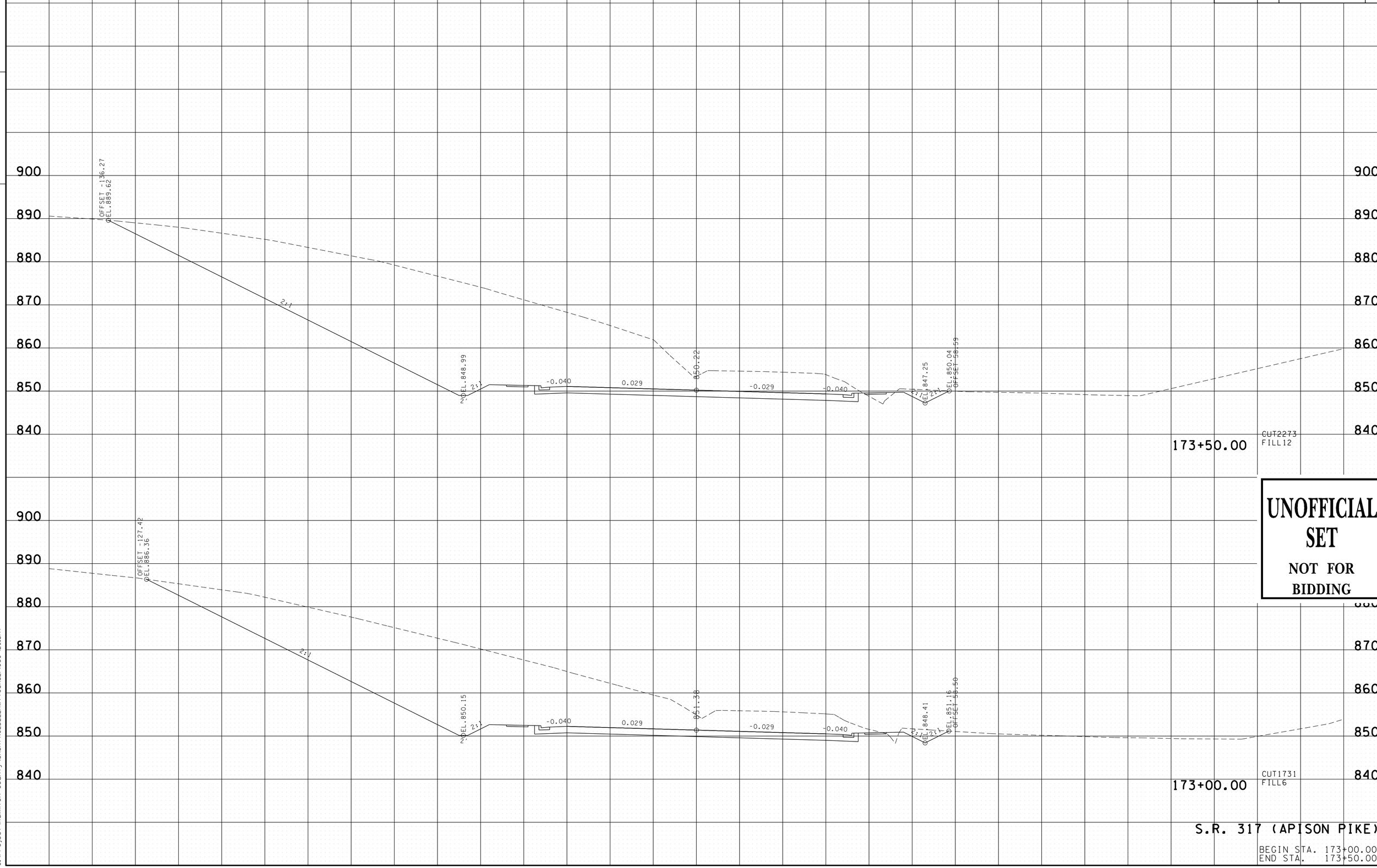
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 68 |
| CONST. | 2014 | STP/NH-317(14) | 81 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 173+00.00
END STA. 173+50.00

16-JUN-2014 08:30
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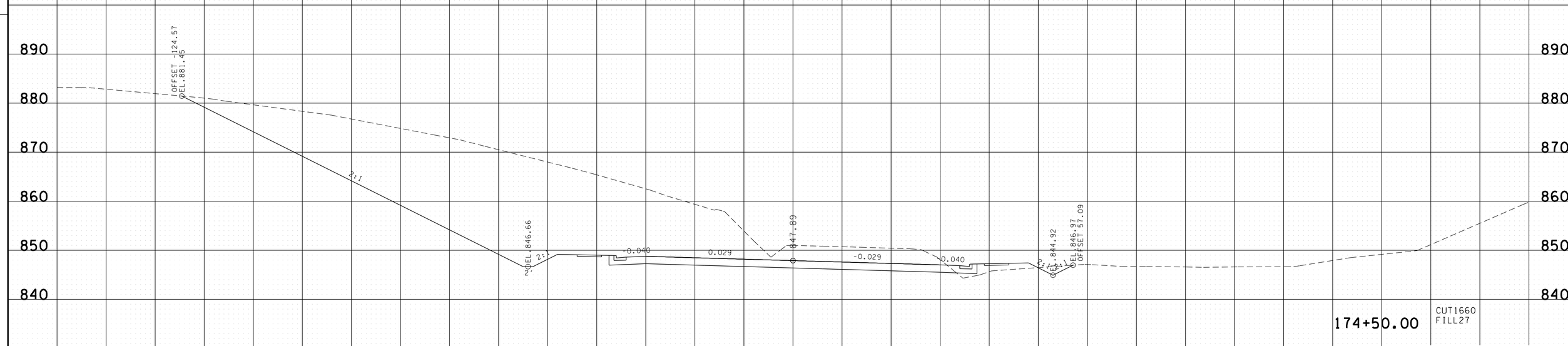
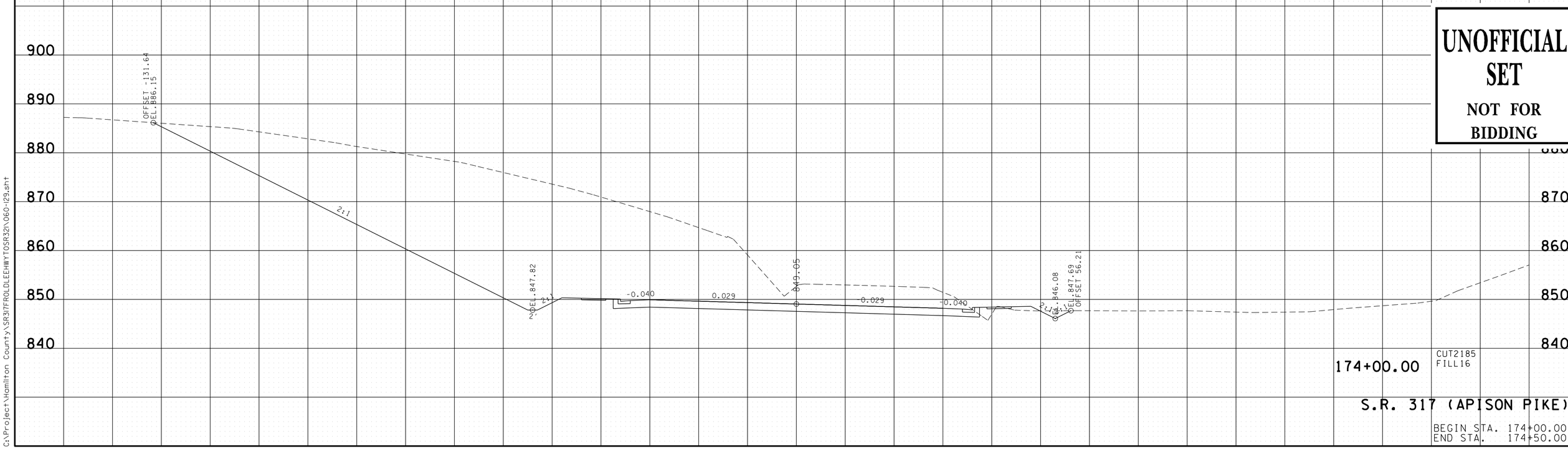
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 69 |
| CONST. | 2014 | STP/NH-317(14) | 82 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




**UNOFFICIAL SET**

**NOT FOR BIDDING**

S.R. 317 (APISON PIKE)

BEGIN STA. 174+00.00
END STA. 174+50.00

16-JUN-2014 08:30
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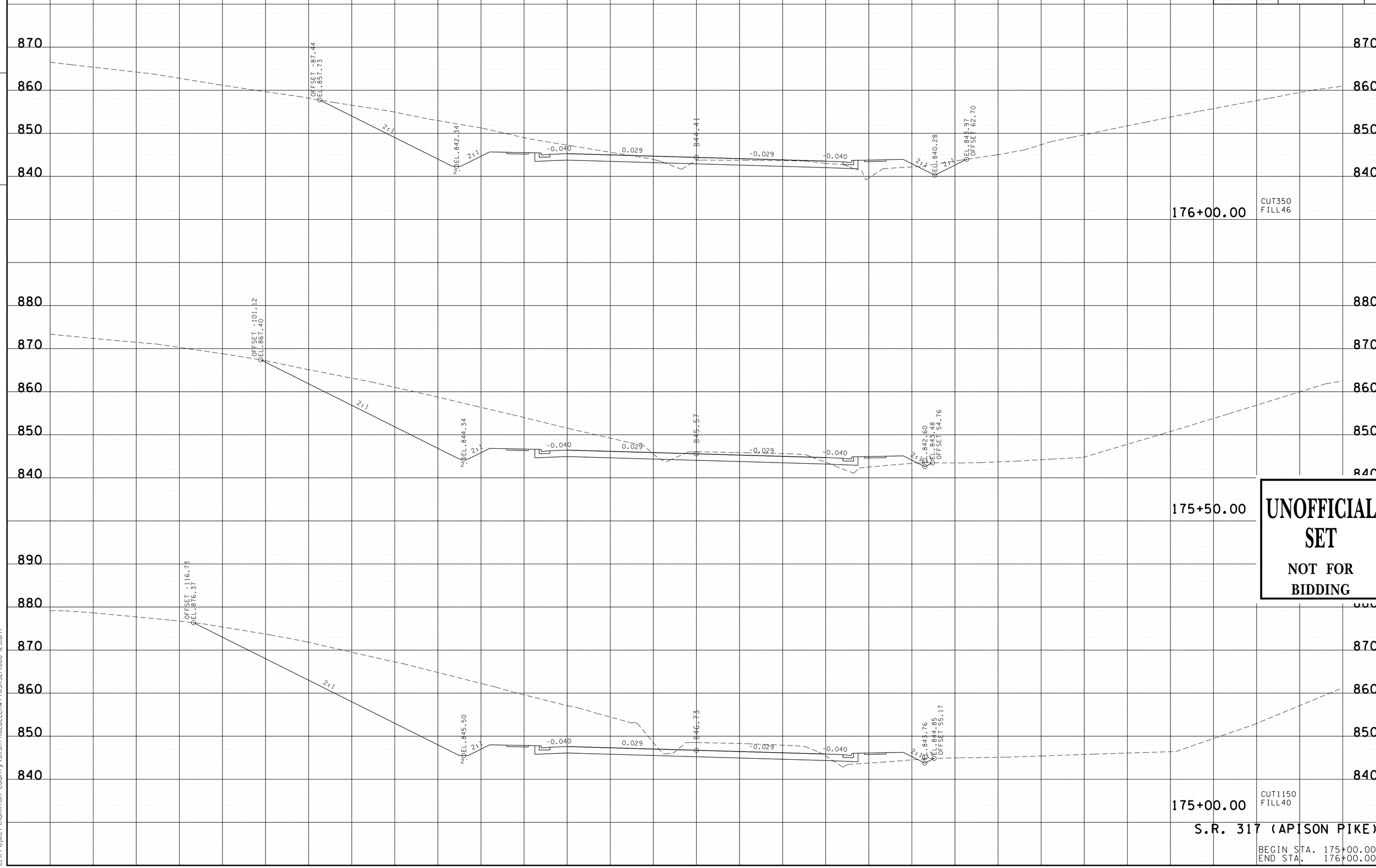
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 70 |
| CONST. | 2014 | STP/NH-317(14) | 83 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 175+00.00
END STA. 176+00.00

16-JUN-2014 08:30
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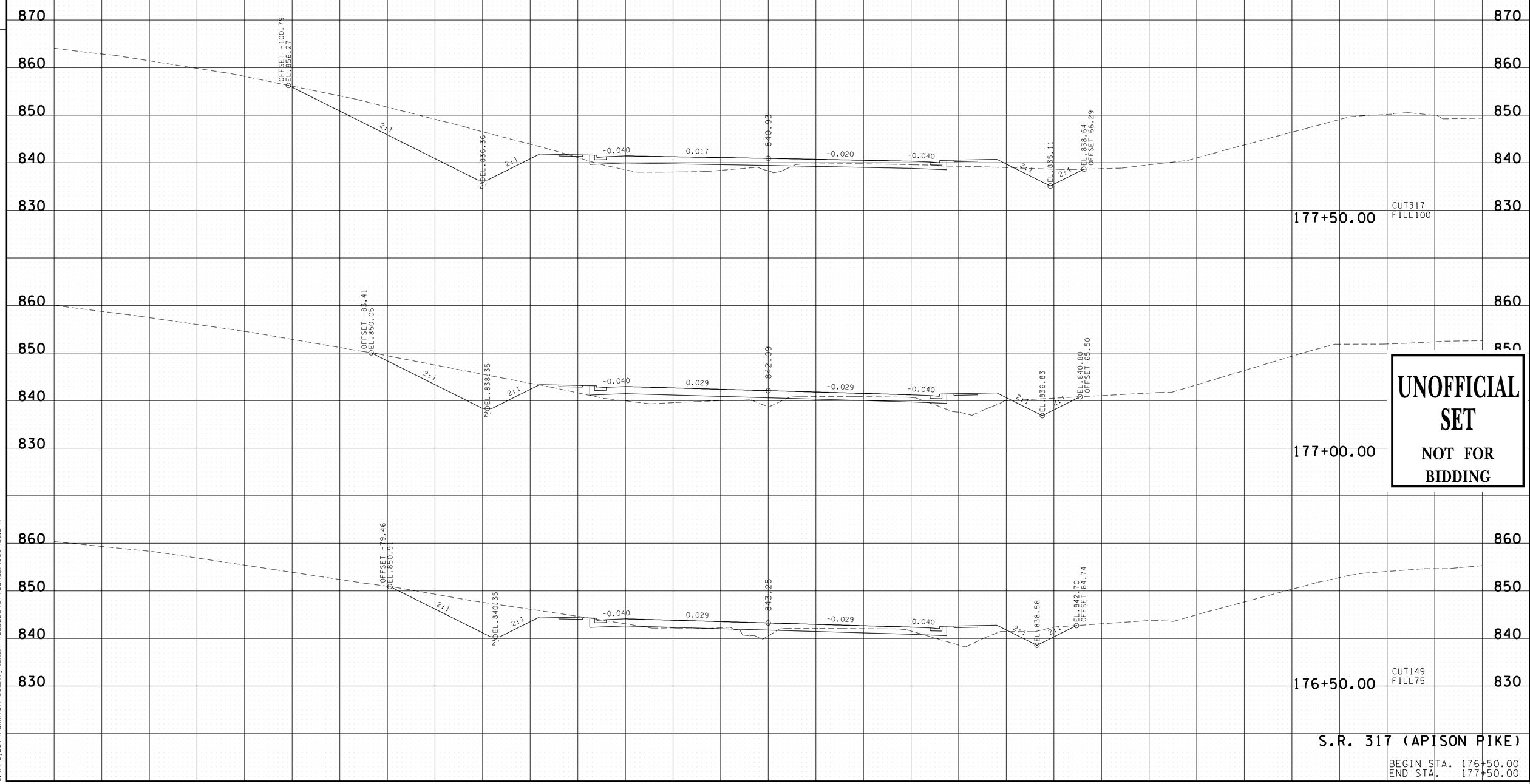
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 71 |
| CONST. | 2014 | STP/NH-317(14) | 84 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 176+50.00
END STA. 177+50.00

16-JUN-2014 08:30
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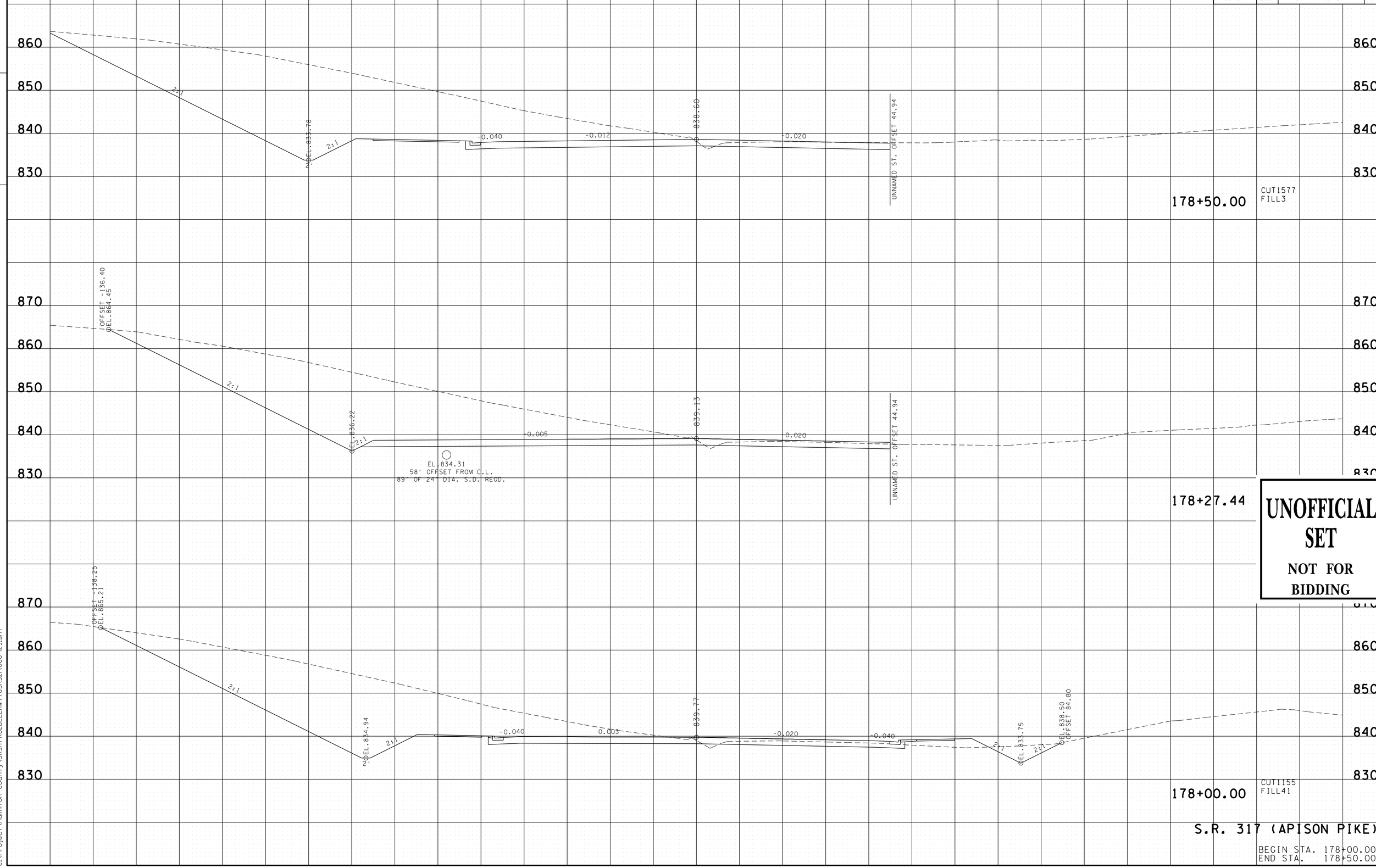
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 72 |
| CONST. | 2014 | STP/NH-317(14) | 85 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 178+00.00
END STA. 178+50.00

16-JUN-2014 08:30
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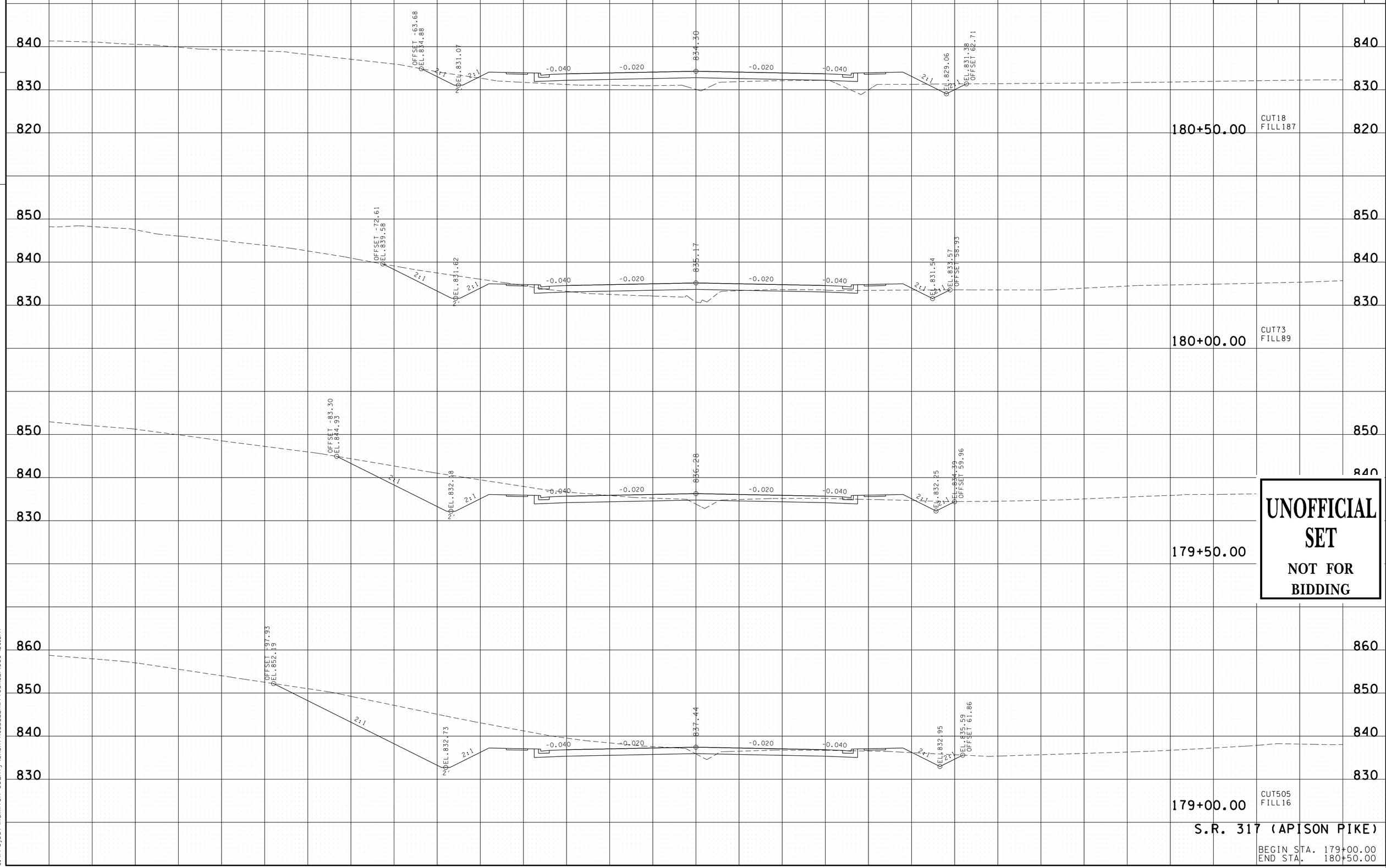
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 73 |
| CONST. | 2014 | STP/NH-317(14) | 86 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 179+00.00
END STA. 180+50.00

16-JUN-2014 08:30
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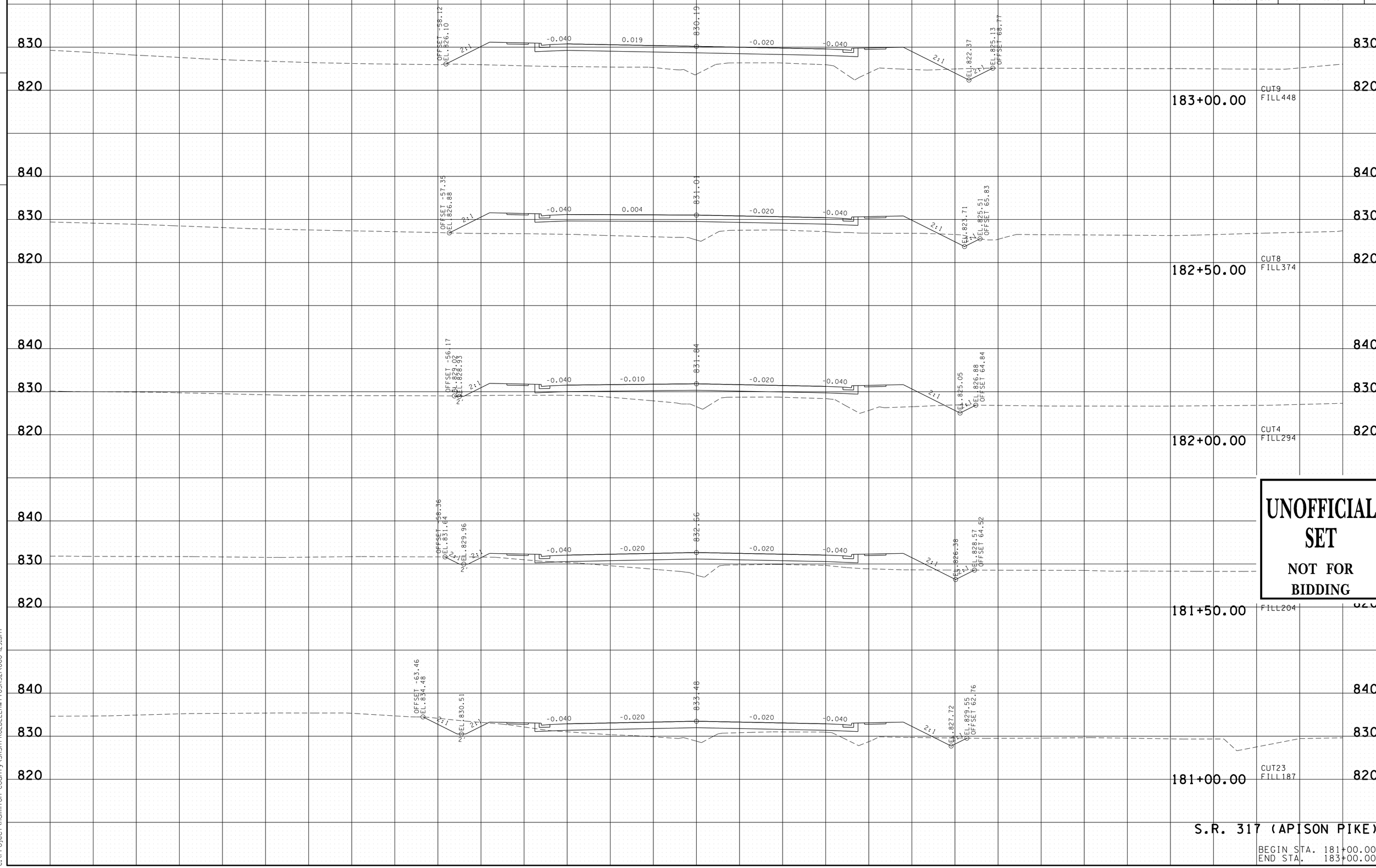
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 74 |
| CONST. | 2014 | STP/NH-317(14) | 87 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 181+00.00
END STA. 183+00.00

16-JUN-2014 08:31
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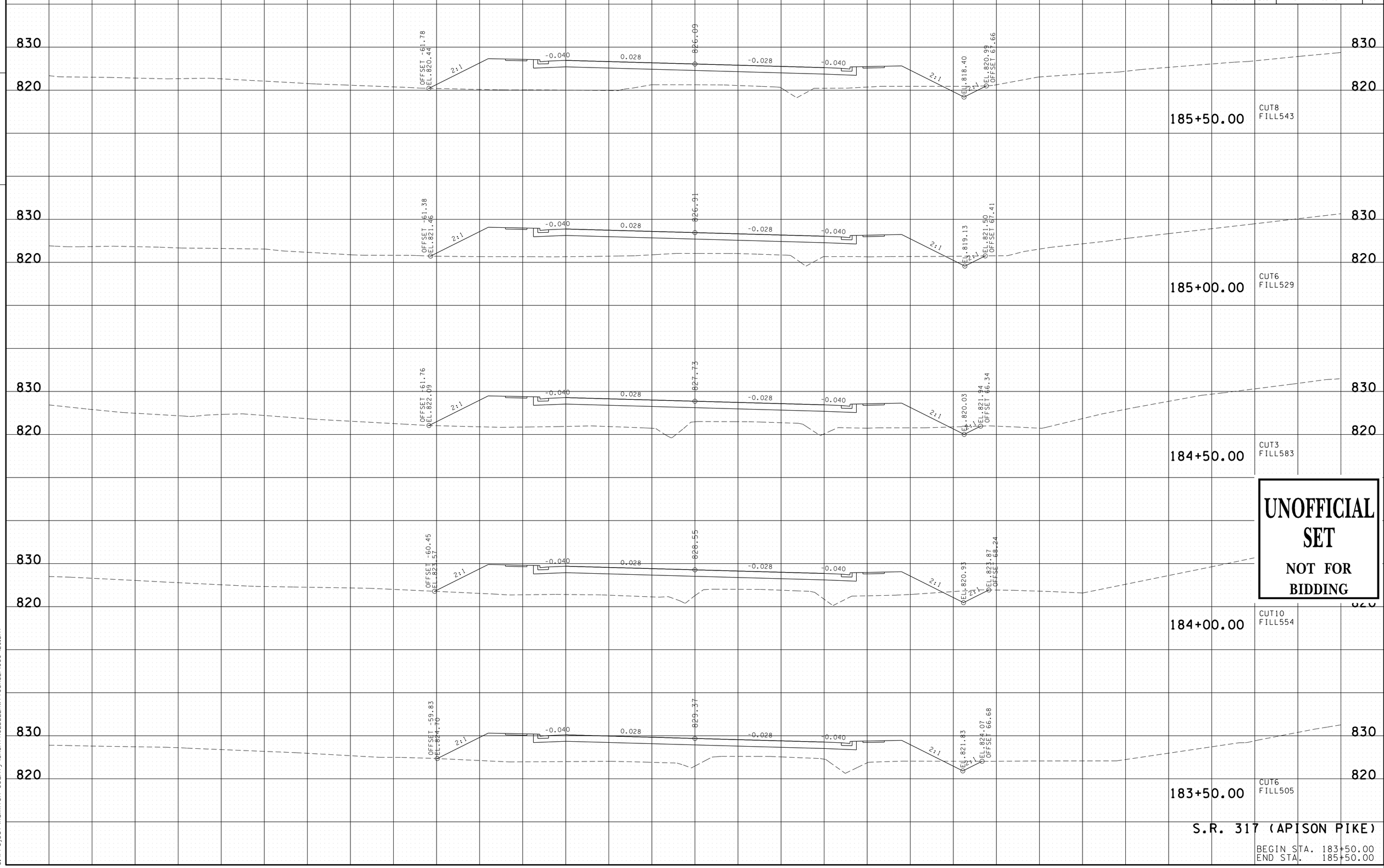
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 75 |
| CONST. | 2014 | STP/NH-317(14) | 88 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 183+50.00
END STA. 185+50.00

16-JUN-2014 08:31
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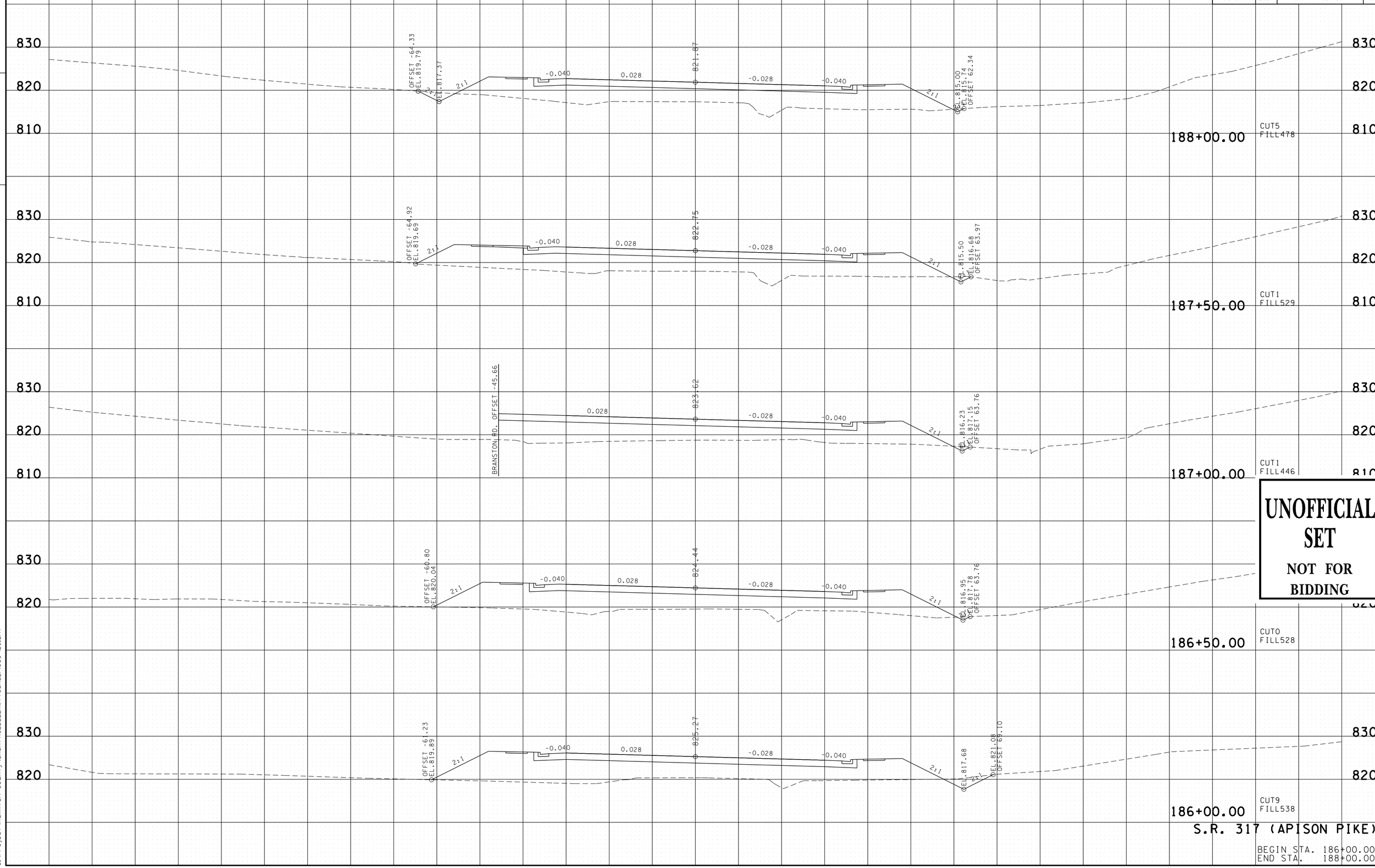
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 76 |
| CONST. | 2014 | STP/NH-317(14) | 89 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 186+00.00
END STA. 188+00.00

16-JUN-2014 08:31
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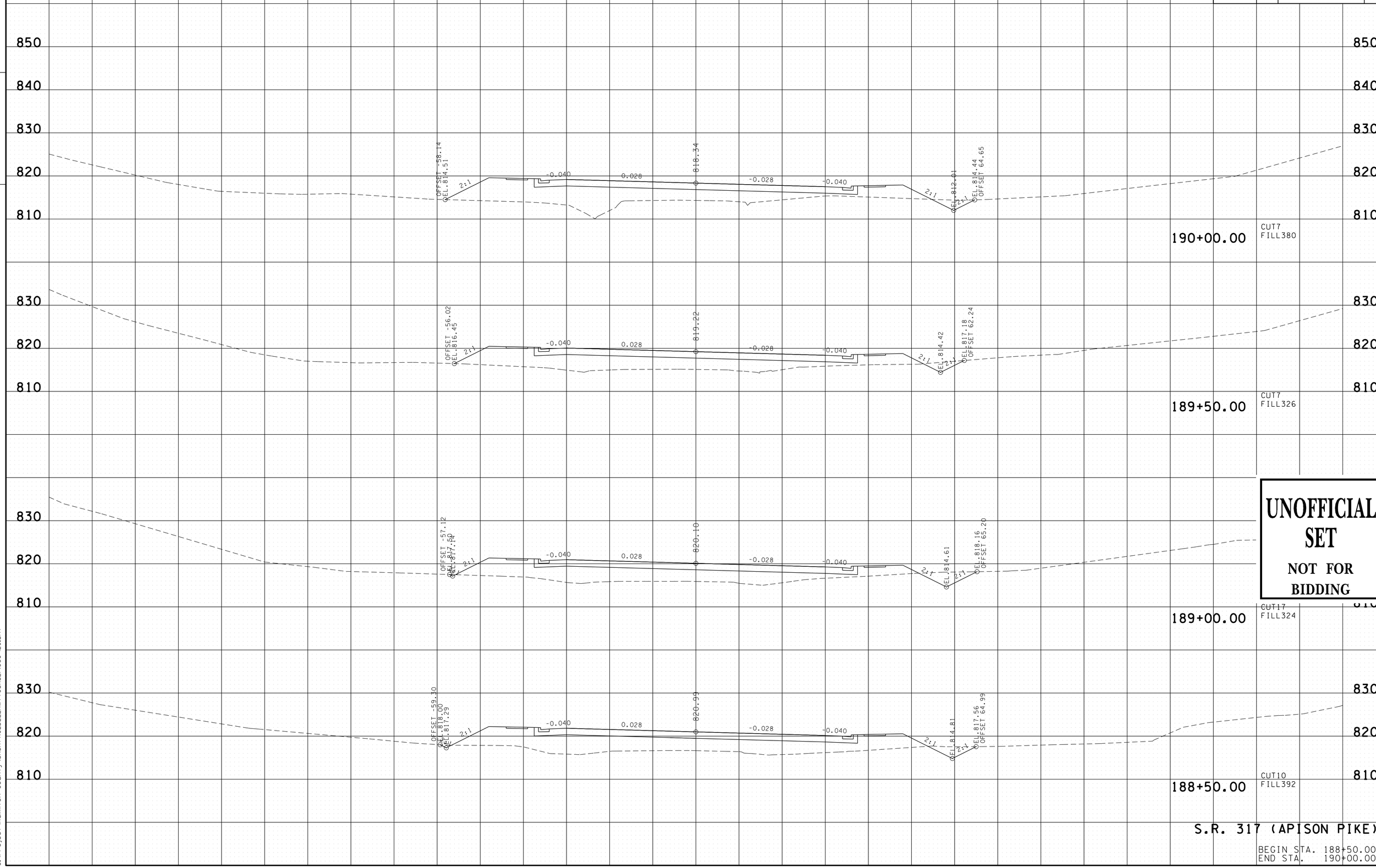
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 77 |
| CONST. | 2014 | STP/NH-317(14) | 90 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 188+50.00
END STA. 190+00.00

16-JUN-2014 08:31
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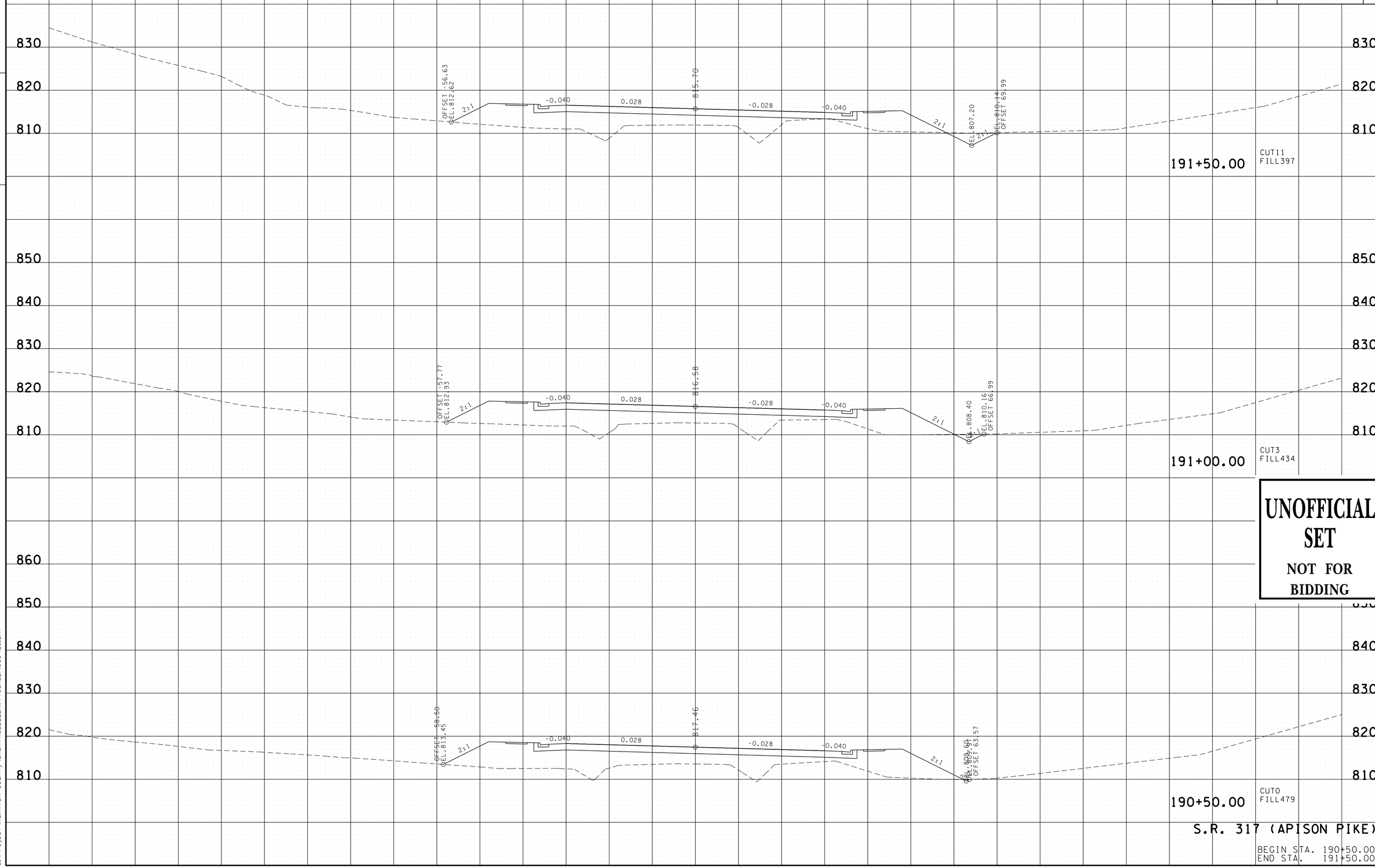
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 78 |
| CONST. | 2014 | STP/NH-317(14) | 91 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 190+50.00
END STA. 191+50.00

16-JUN-2014 08:31
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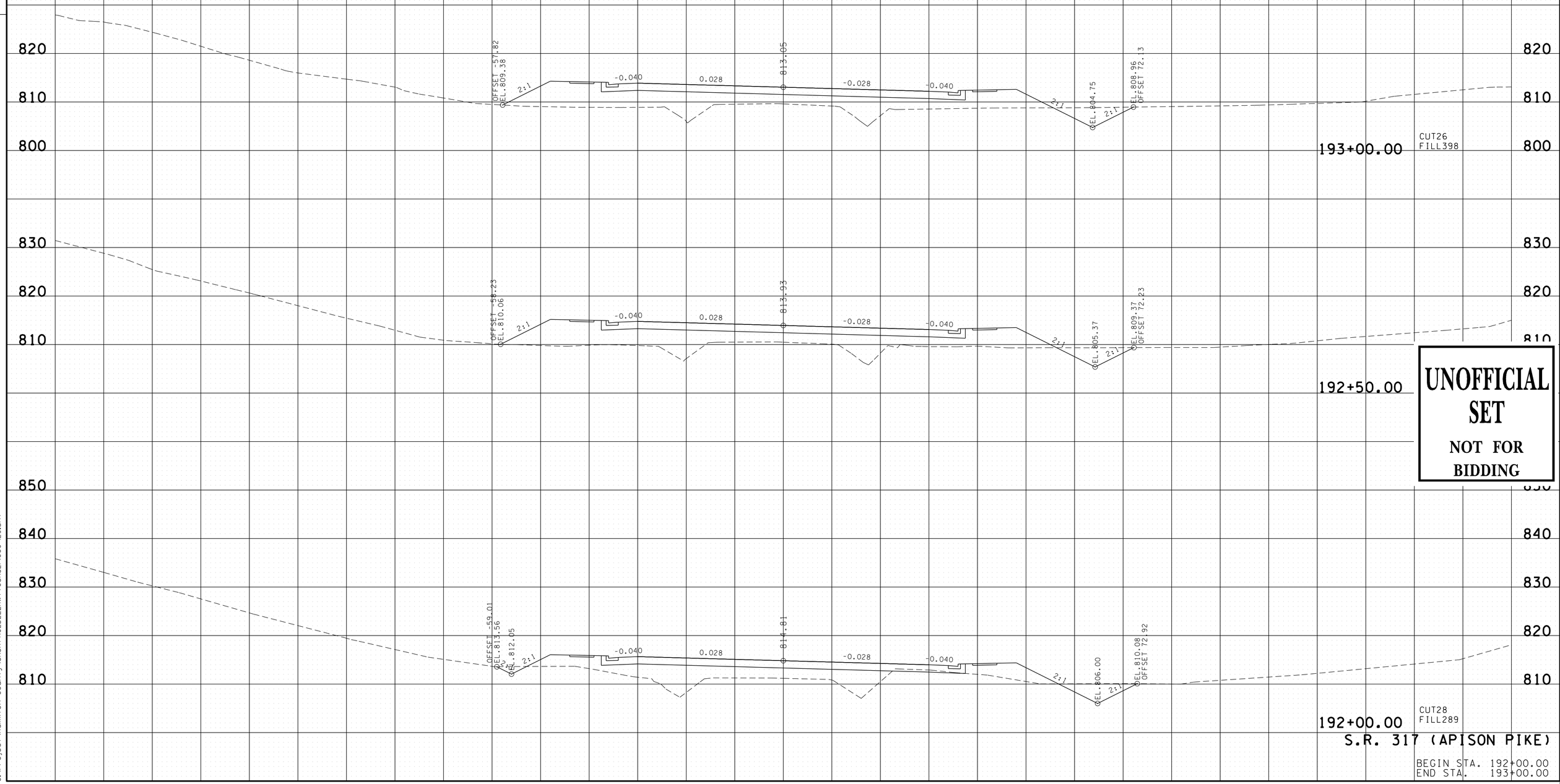
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 79 |
| CONST. | 2014 | STP/NH-317(14) | 92 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 192+00.00
END STA. 193+00.00

16-JUN-2014 08:31
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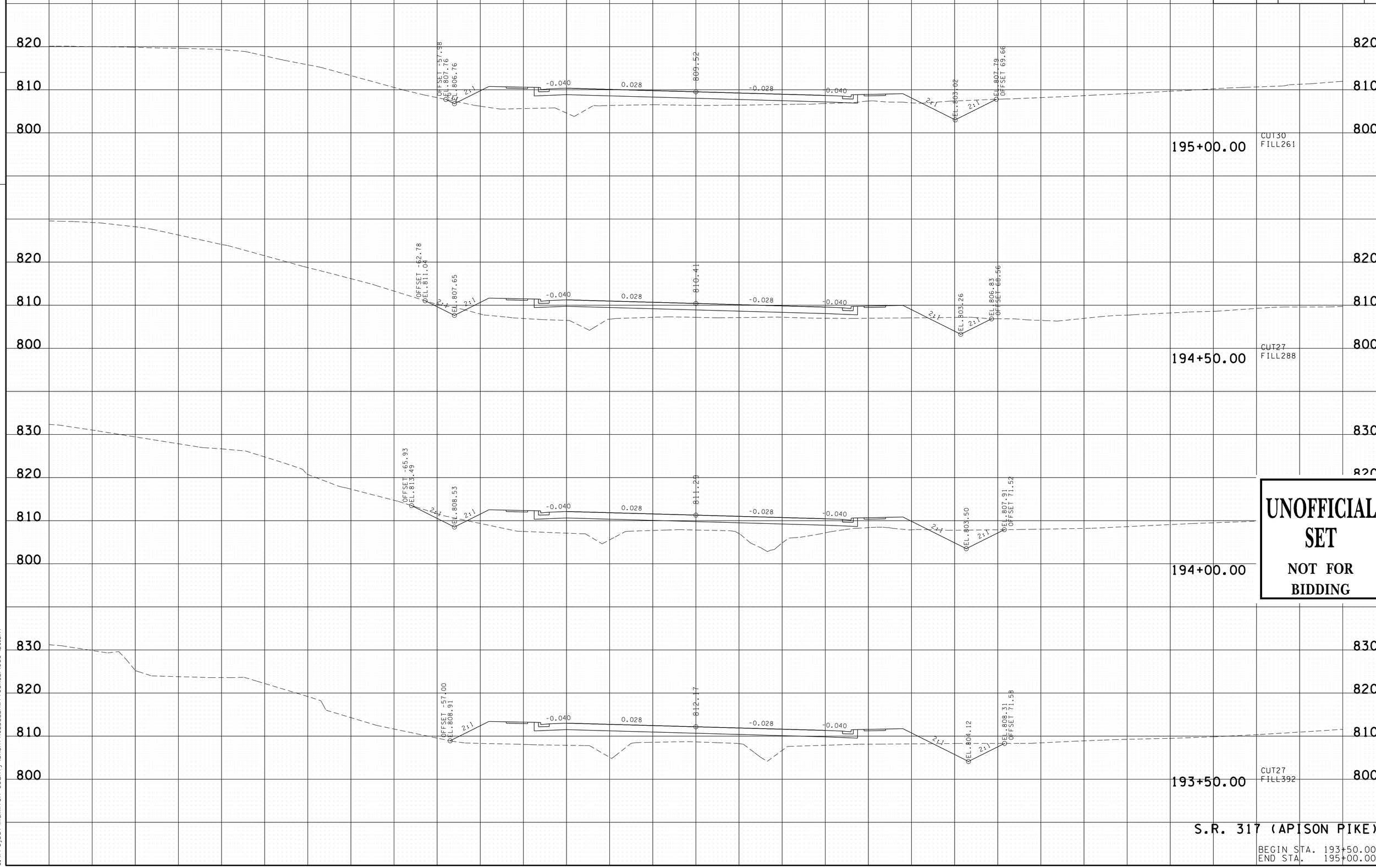
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 80 |
| CONST. | 2014 | STP/NH-317(14) | 93 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

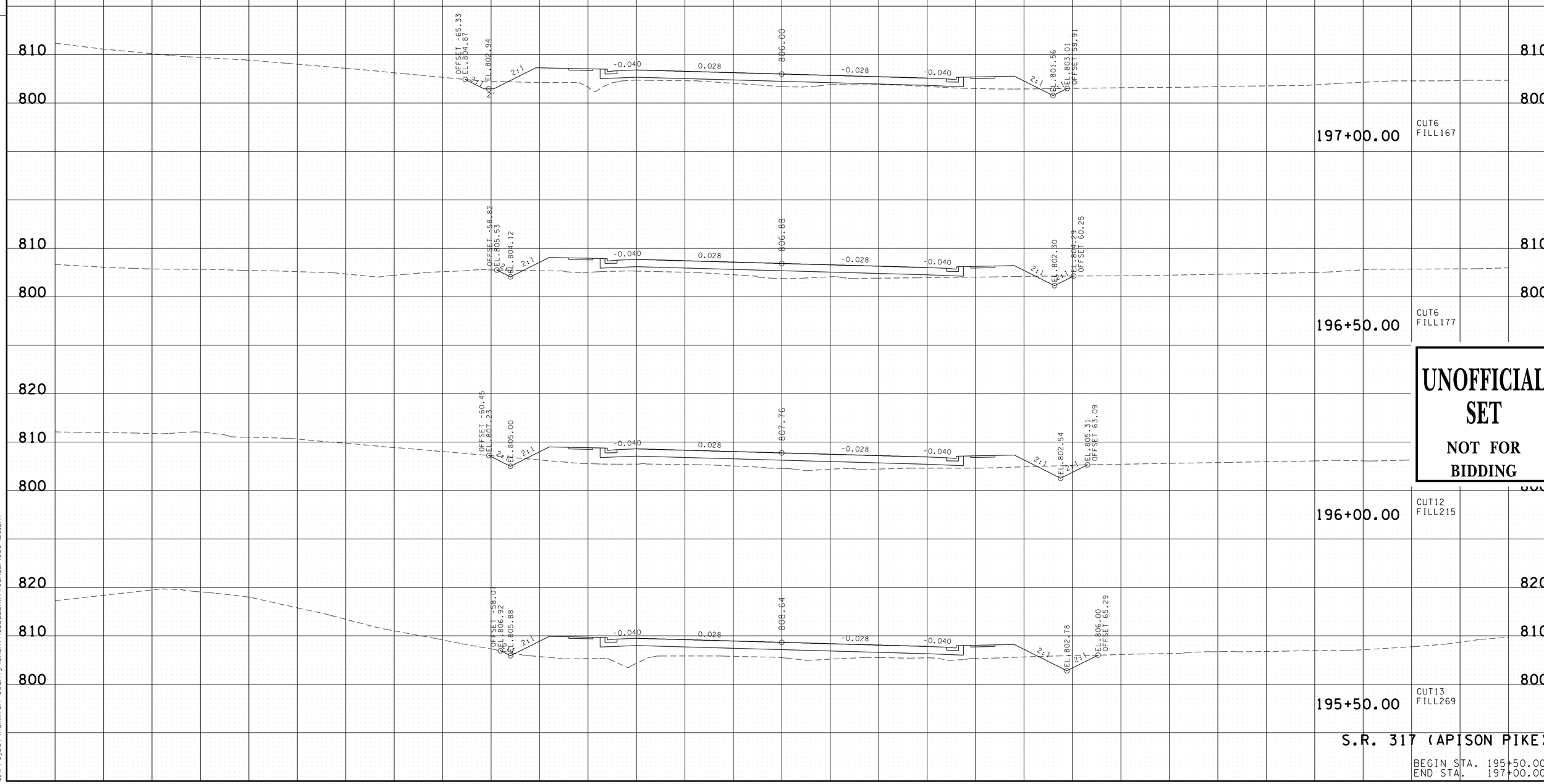
BEGIN STA. 193+50.00
END STA. 195+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 81 |
| CONST. | 2014 | STP/NH-317(14) | 94 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

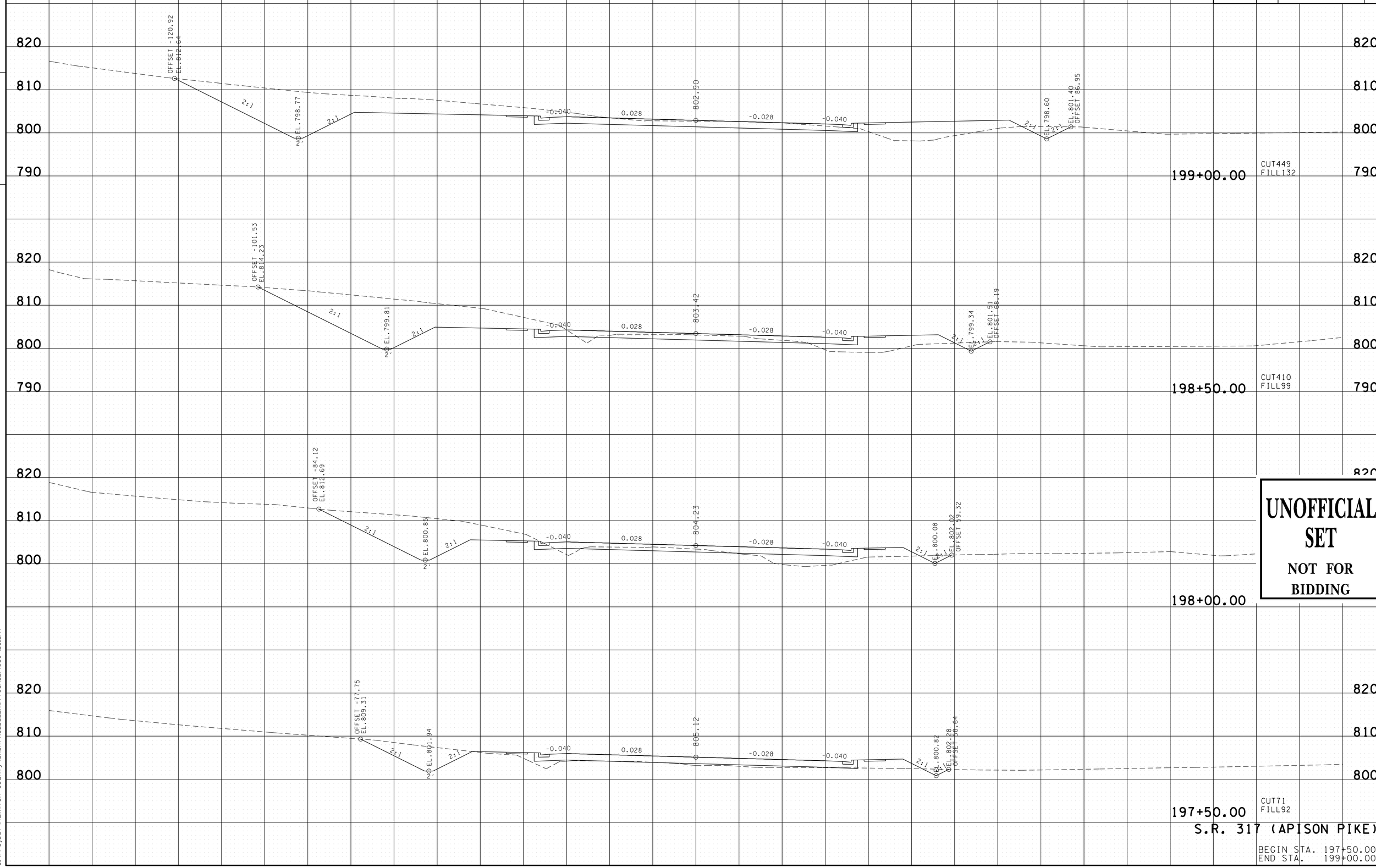
BEGIN STA. 195+50.00
END STA. 197+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR32\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 82 |
| CONST. | 2014 | STP/NH-317(14) | 95 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 197+50.00
END STA. 199+00.00

16-JUN-2014 08:31
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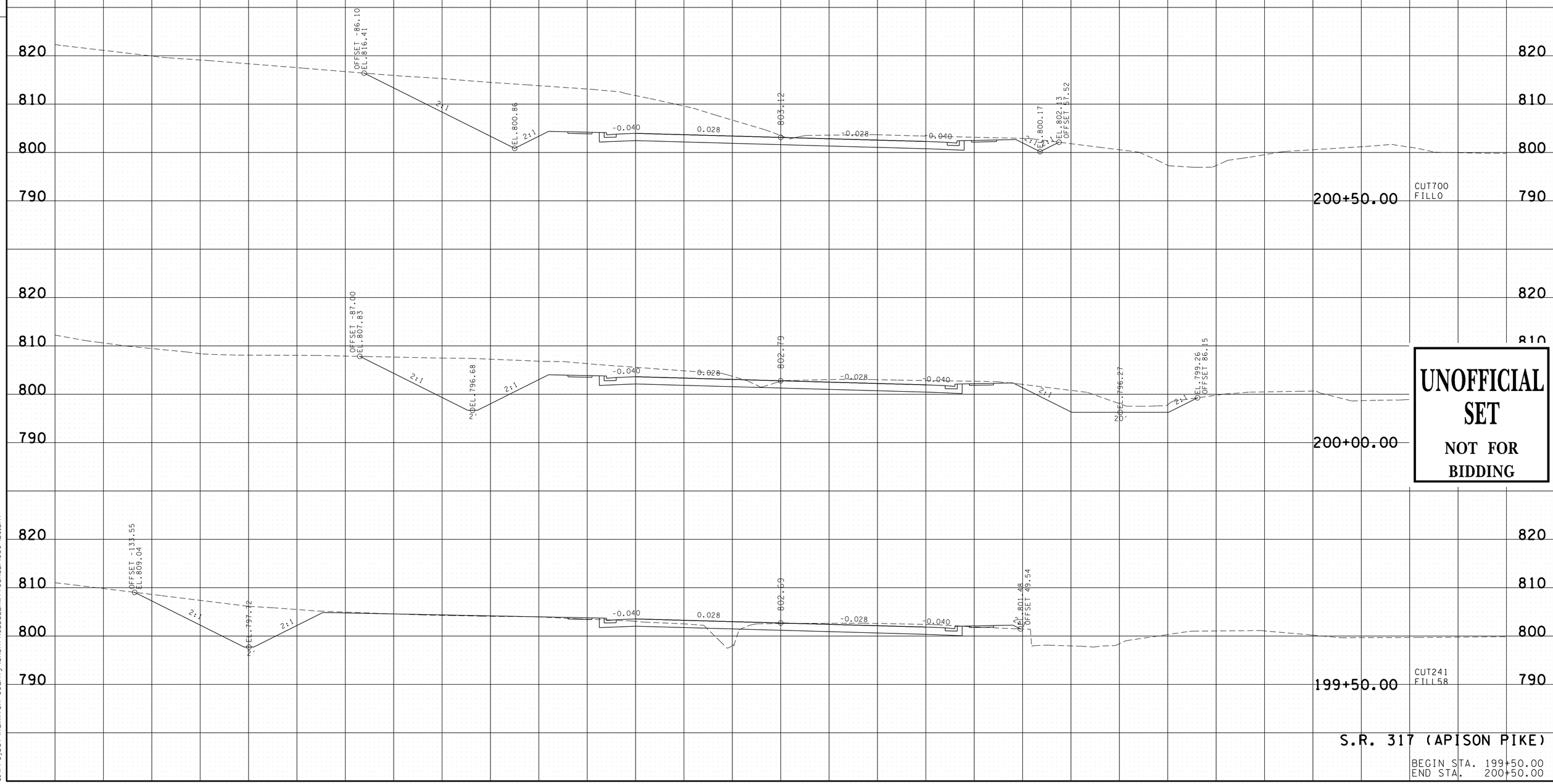
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 83 |
| CONST. | 2014 | STP/NH-317(14) | 96 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 199+50.00
END STA. 200+50.00

16-JUN-2014 08:31
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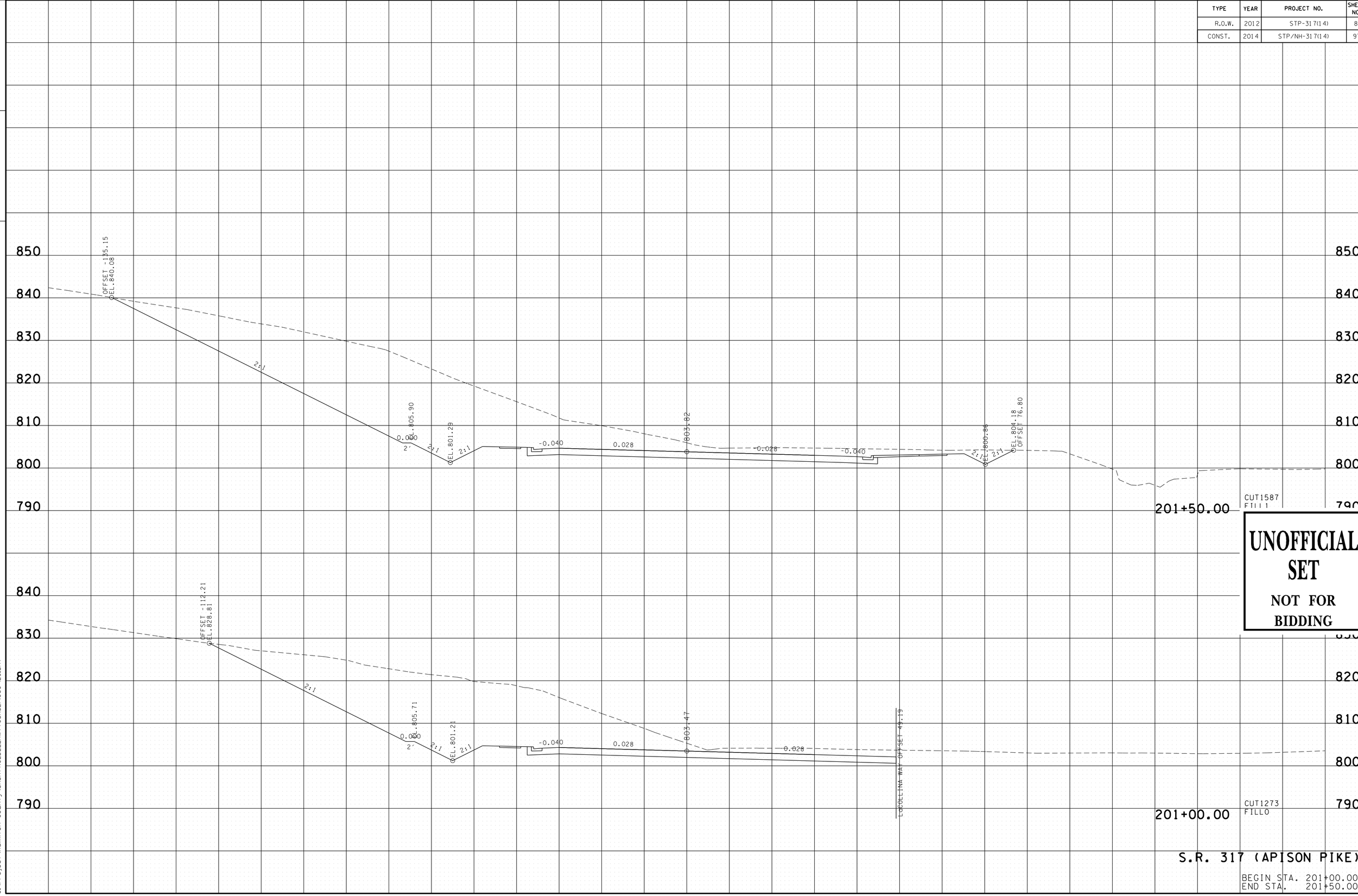
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 84 |
| CONST. | 2014 | STP/NH-317(14) | 97 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 201+00.00
END STA. 201+50.00

16-JUN-2014 08:31
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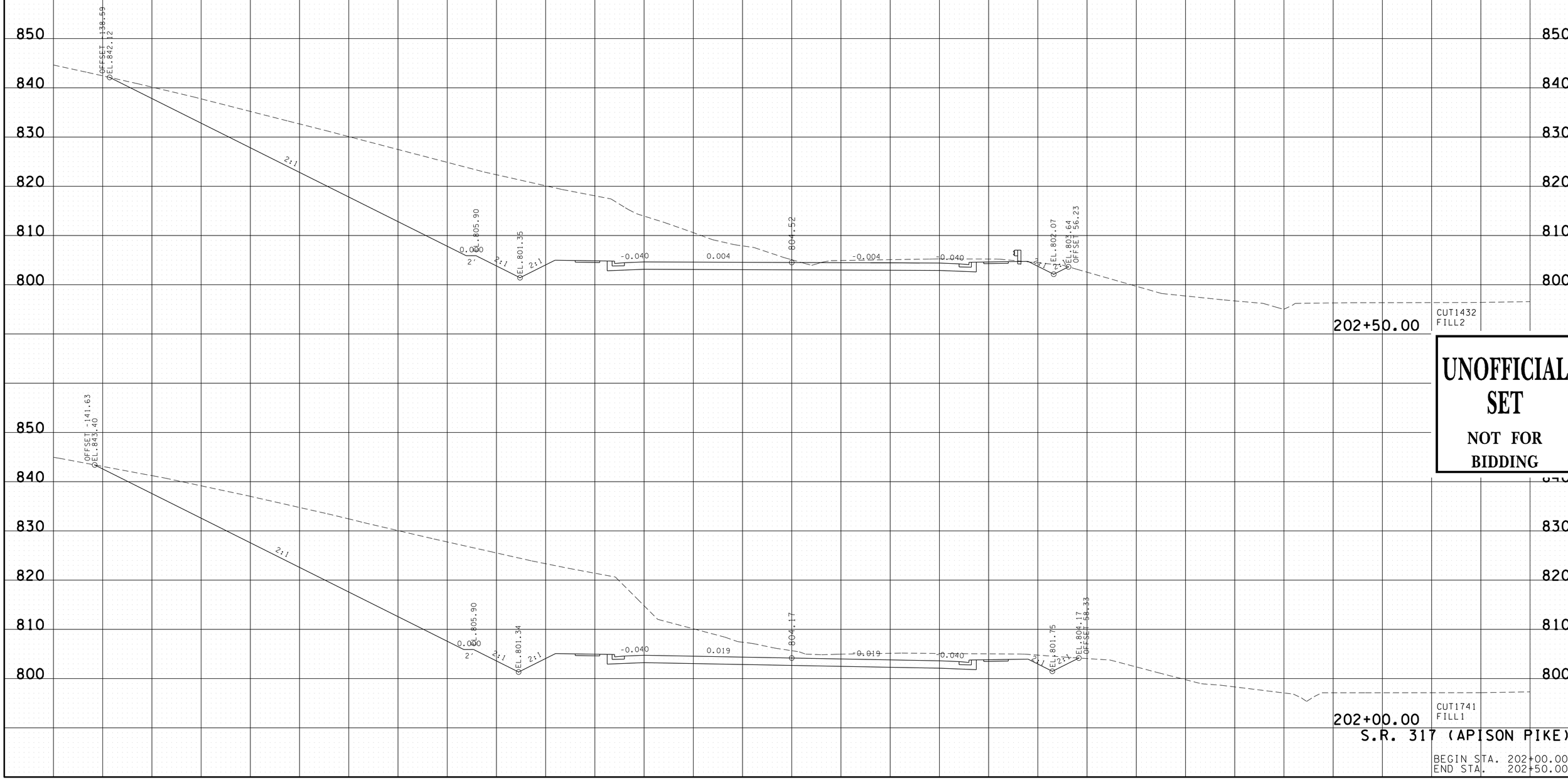
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 85 |
| CONST. | 2014 | STP/NH-317(14) | 98 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 202+00.00
END STA. 202+50.00

16-JUN-2014 08:31
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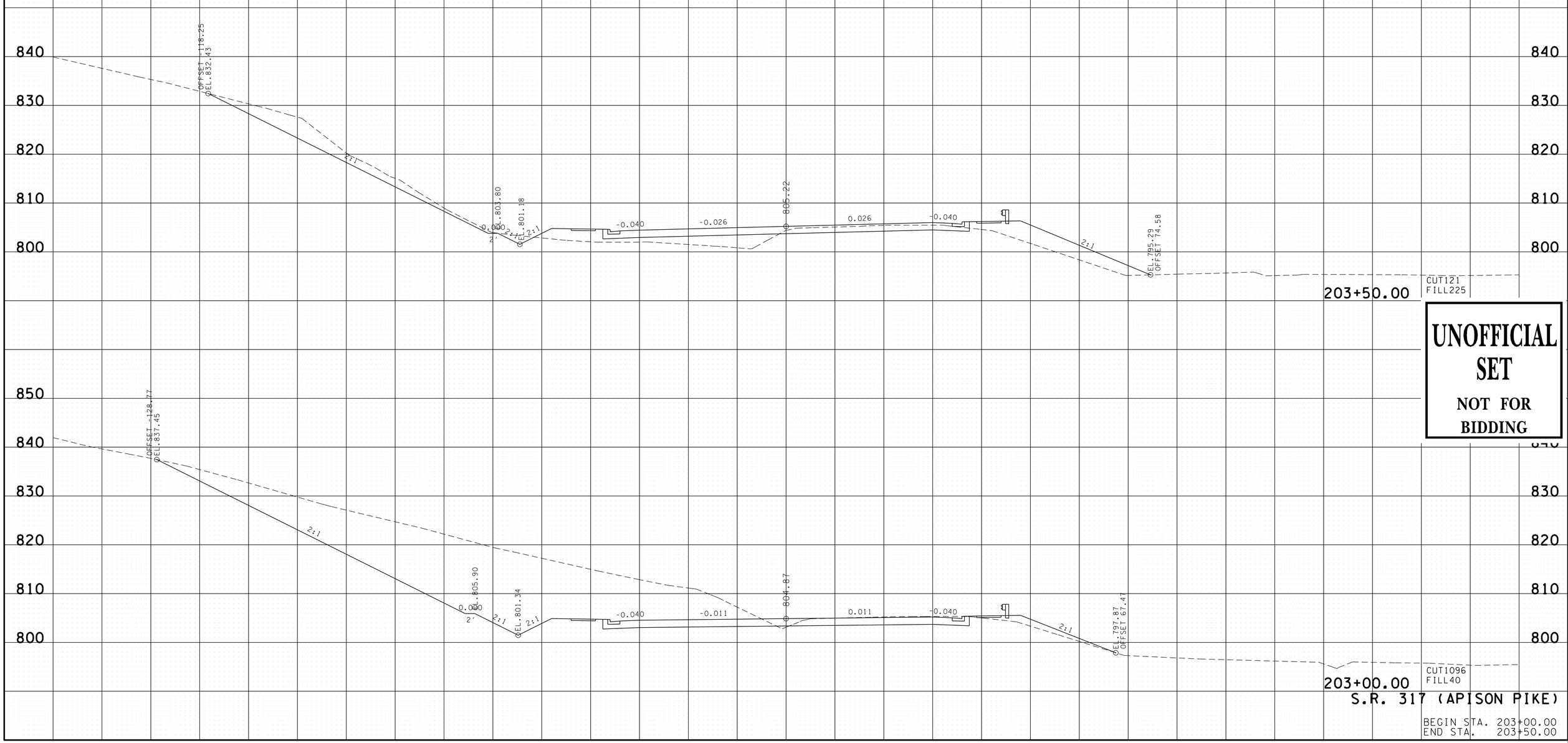
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 86 |
| CONST. | 2014 | STP/NH-317(14) | 99 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 203+00.00
END STA. 203+50.00

16-JUN-2014 08:31
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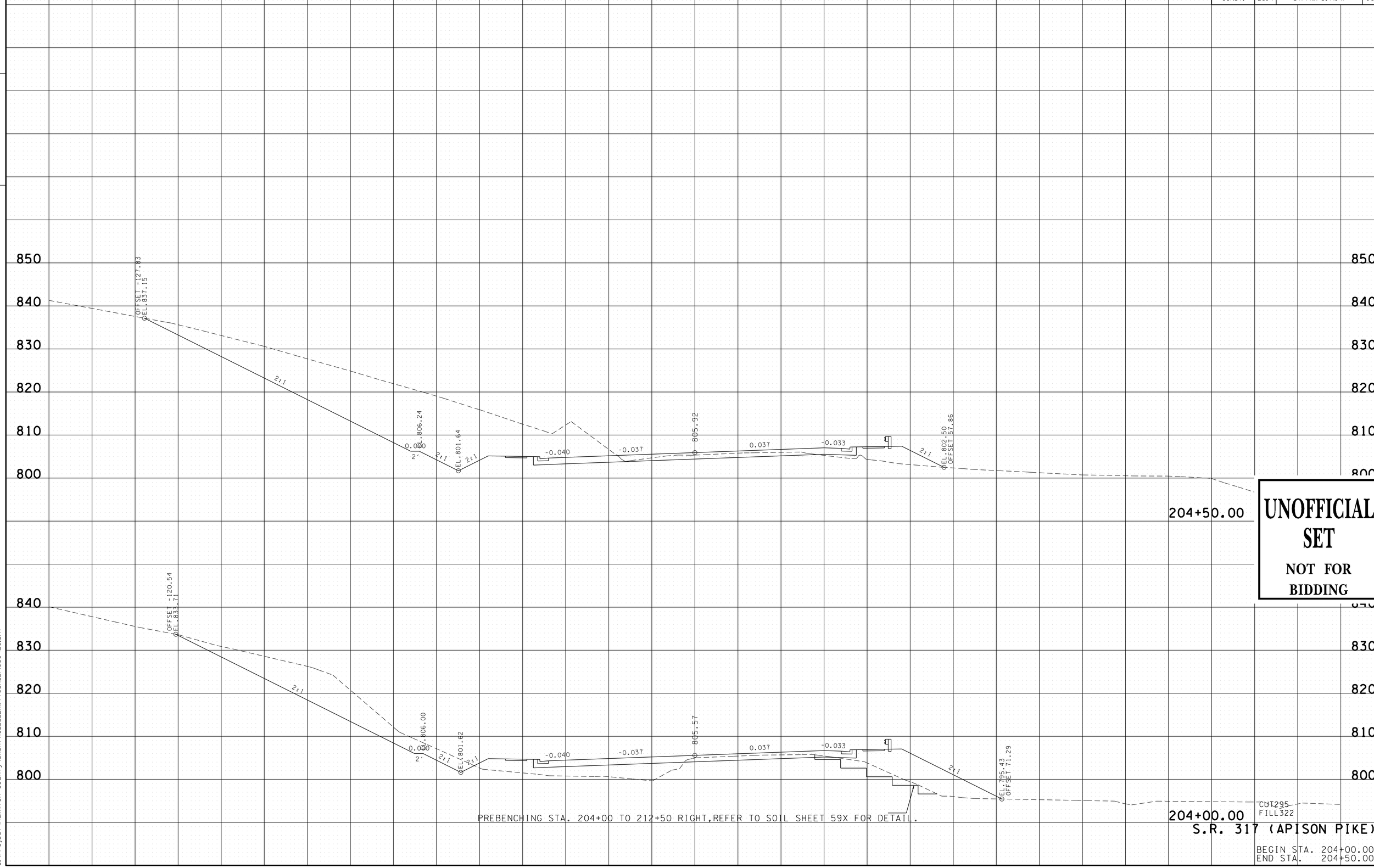
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 87 |
| CONST. | 2014 | STP/NH-317(14) | 100 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

16-JUN-2014 08:31
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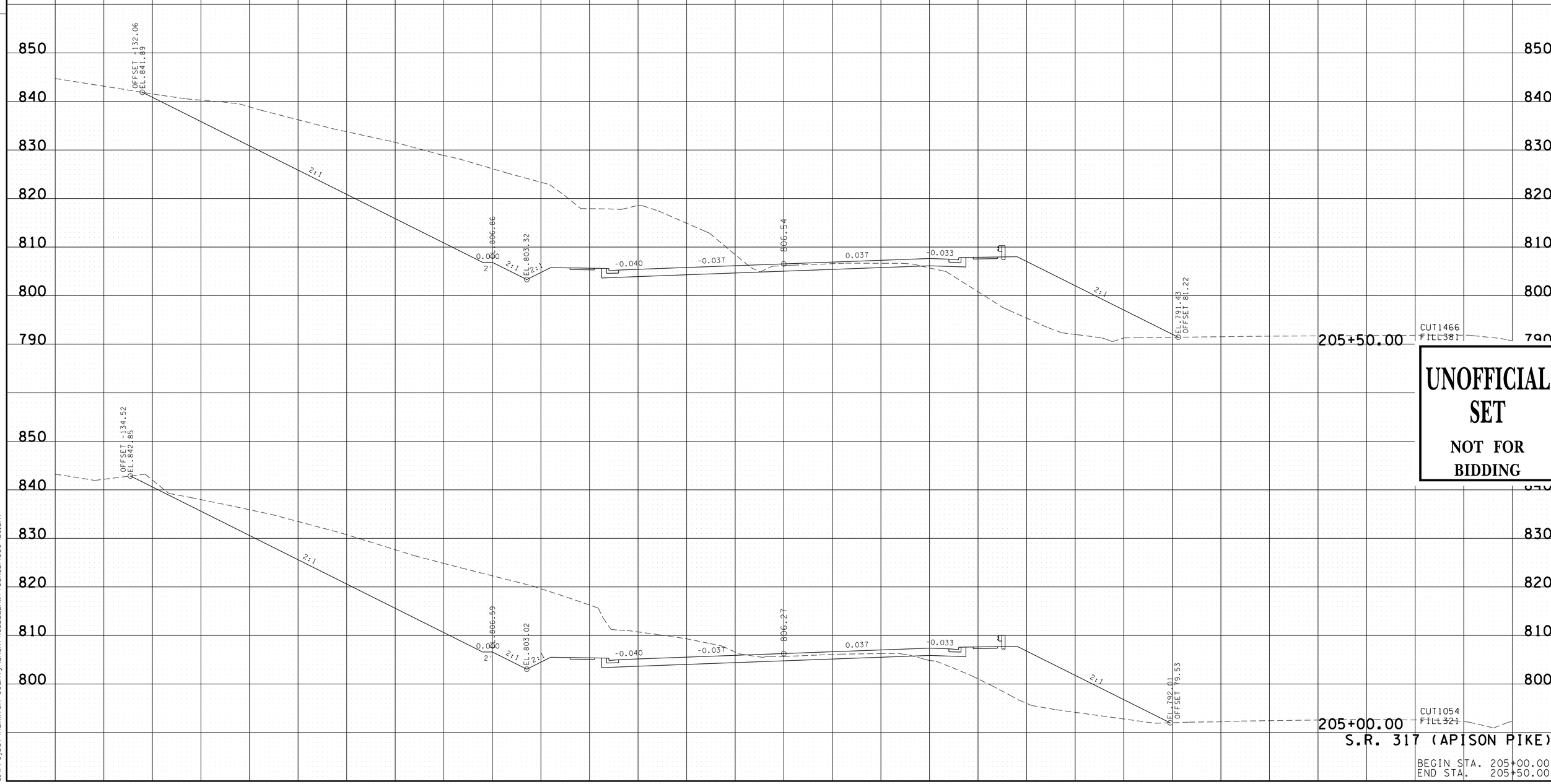
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 88 |
| CONST. | 2014 | STP/NH-317(14) | 101 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 205+00.00
END STA. 205+50.00

16-JUN-2014 08:31
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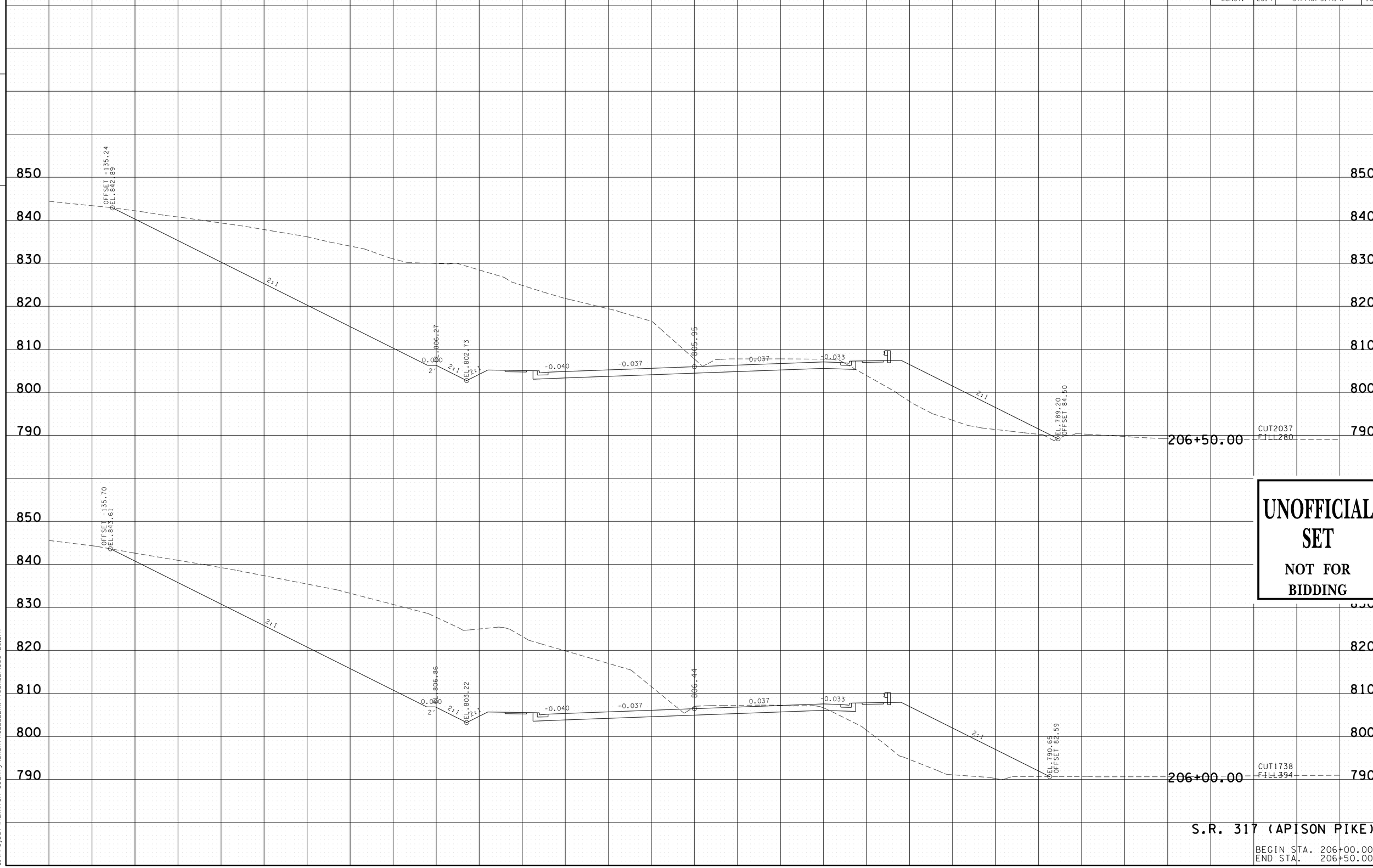
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 89 |
| CONST. | 2014 | STP/NH-317(14) | 102 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 206+00.00
END STA. 206+50.00

16-JUN-2014 08:31
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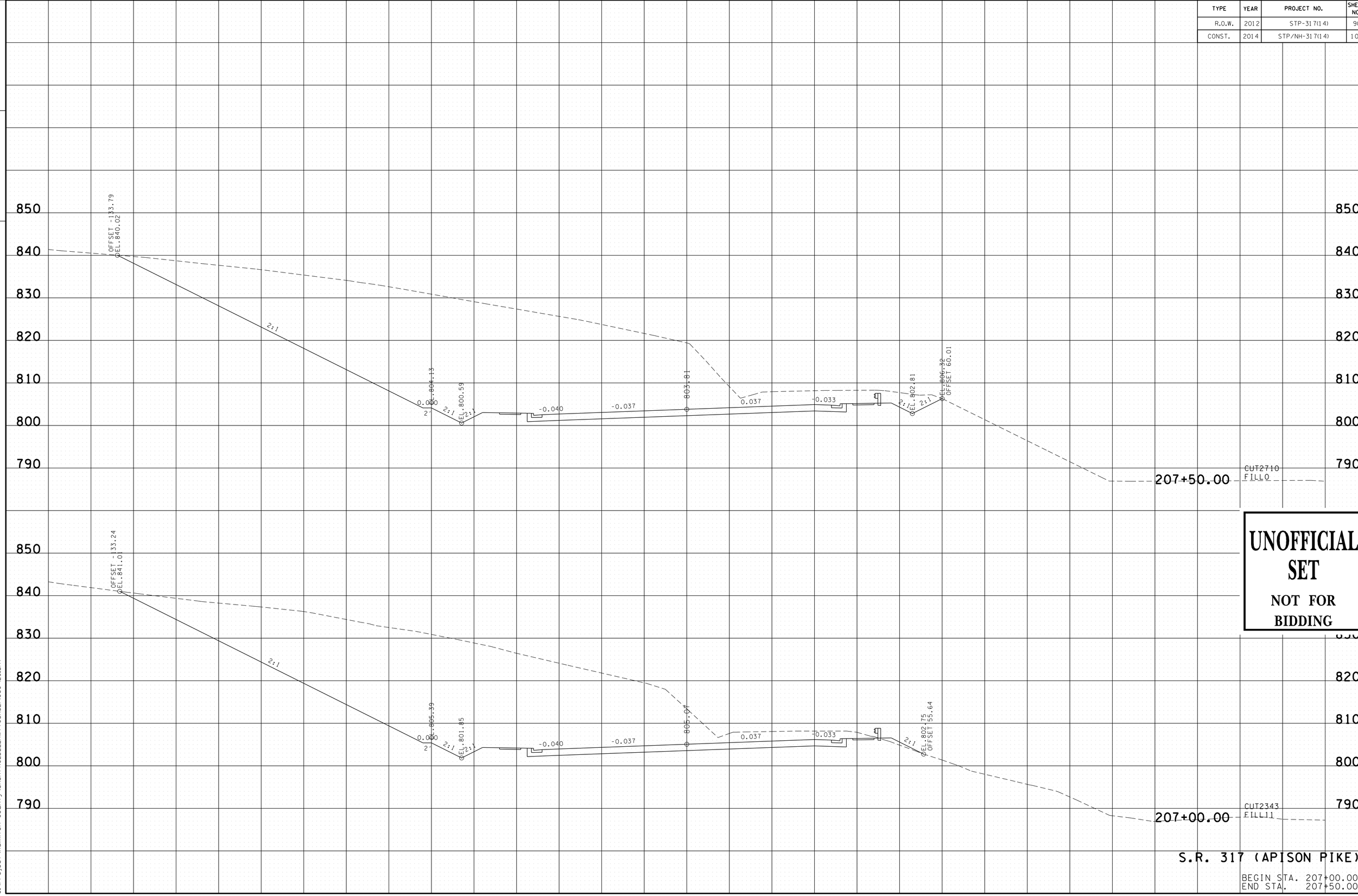
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 90 |
| CONST. | 2014 | STP/NH-317(14) | 103 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 207+00.00
END STA. 207+50.00

16-JUN-2014 08:31
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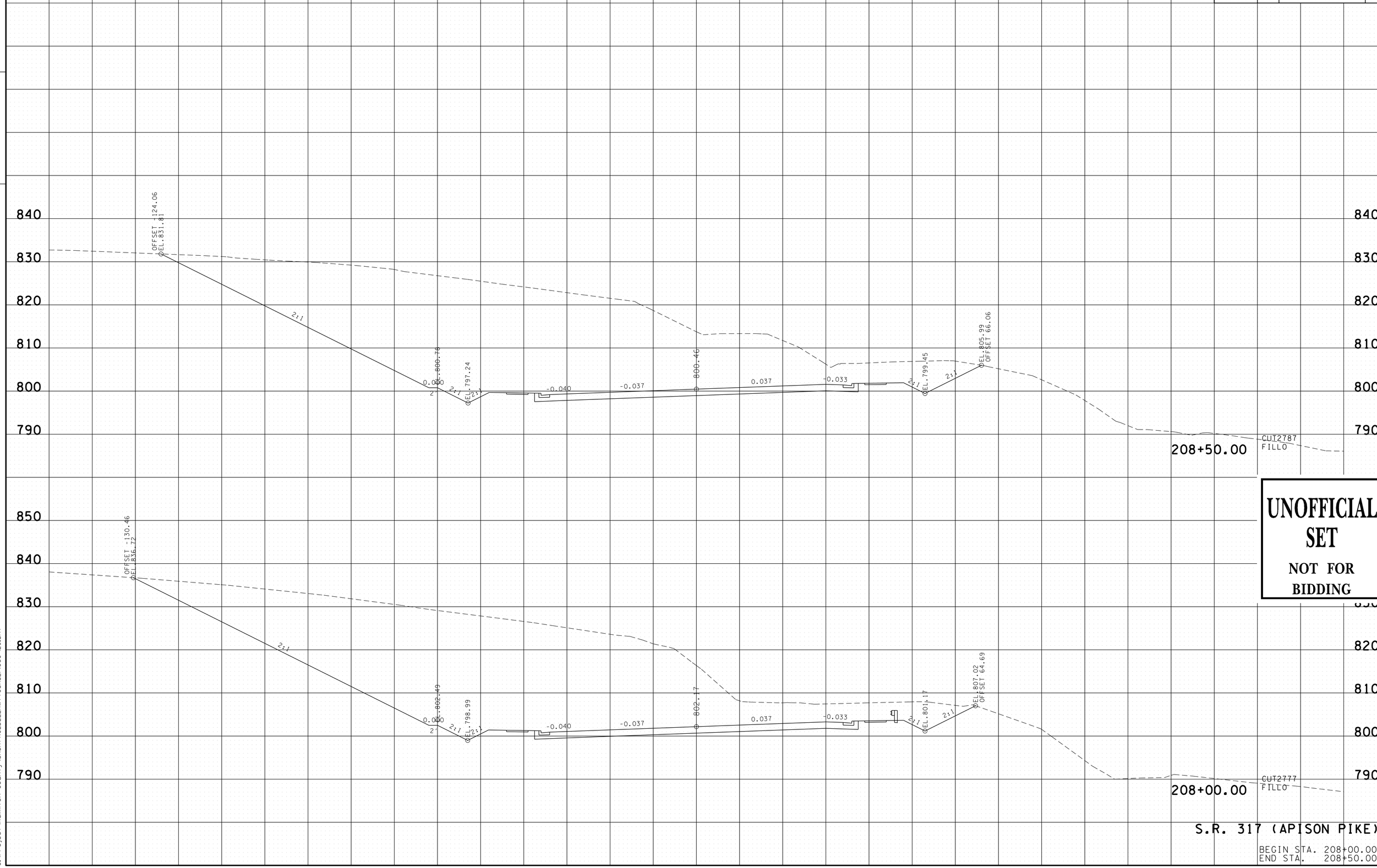
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 91 |
| CONST. | 2014 | STP/NH-317(14) | 104 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




**UNOFFICIAL SET**

**NOT FOR BIDDING**

S.R. 317 (APISON PIKE)

BEGIN STA. 208+00.00
END STA. 208+50.00

16-JUN-2014 08:31
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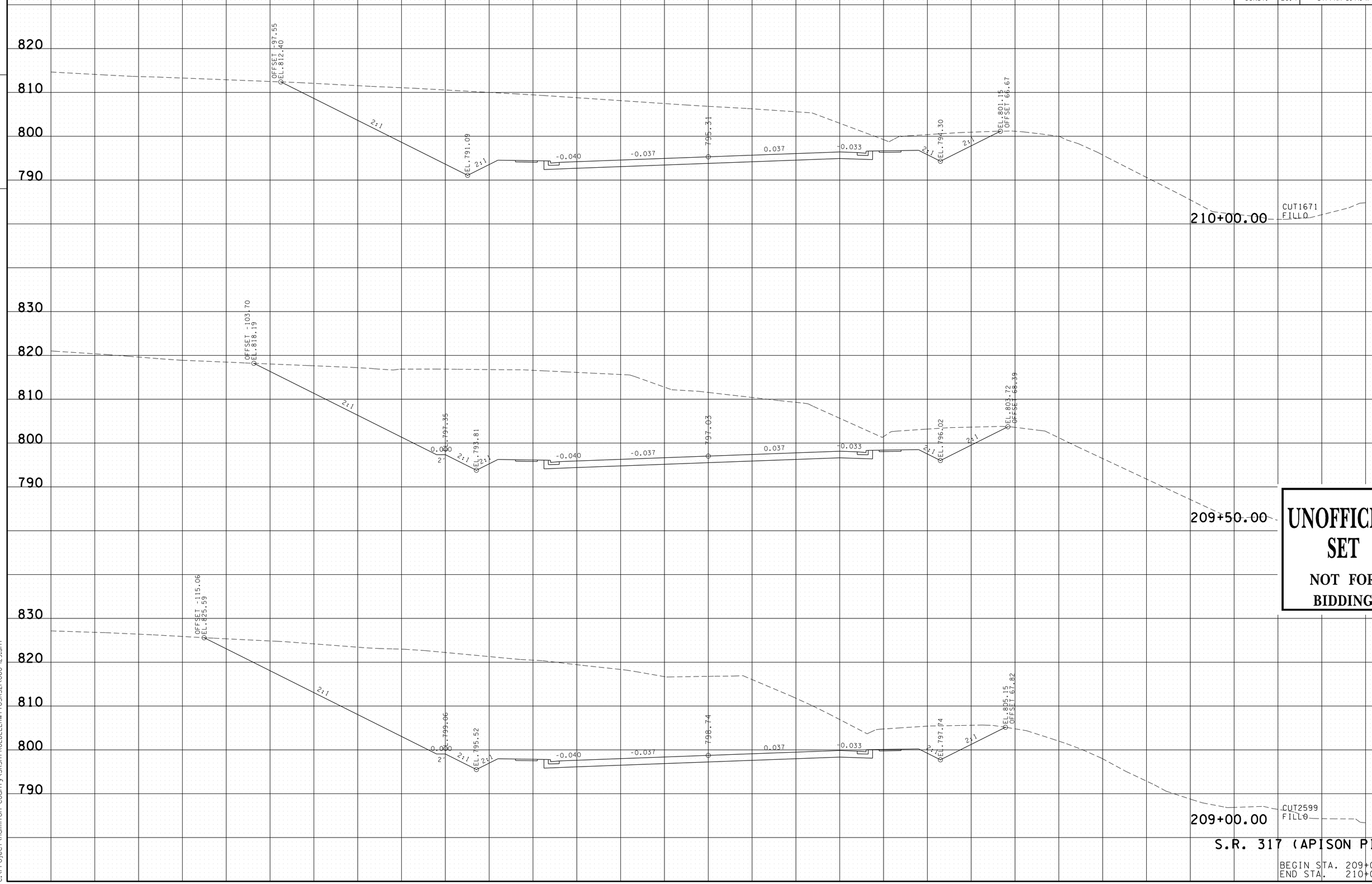
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 92 |
| CONST. | 2014 | STP/NH-317(14) | 105 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 209+00.00
END STA. 210+00.00

16-JUN-2014 08:31
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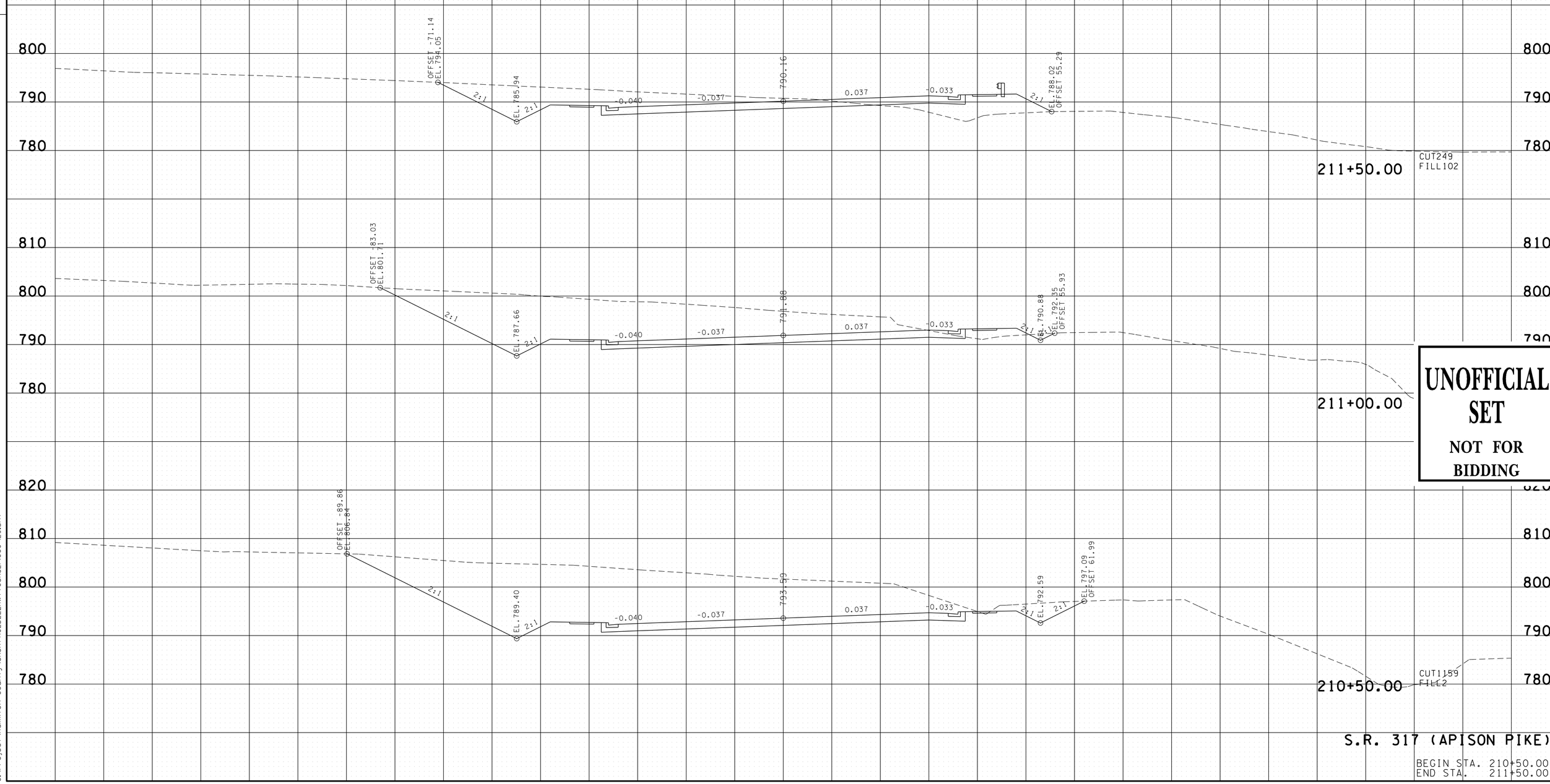
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 93 |
| CONST. | 2014 | STP/NH-317(14) | 106 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 210+50.00
END STA. 211+50.00

16-JUN-2014 08:31
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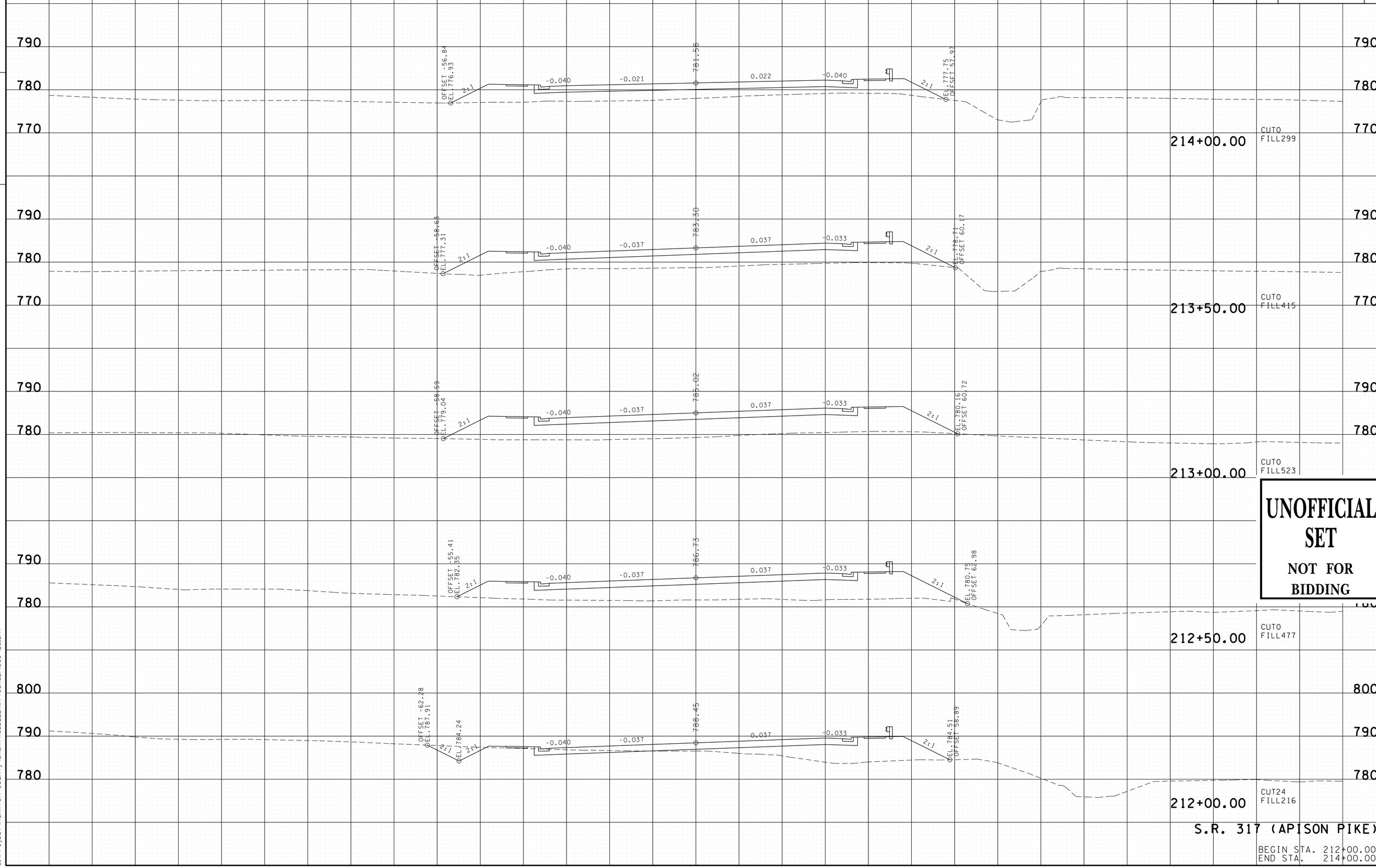
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 94 |
| CONST. | 2014 | STP/NH-317(14) | 107 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 212+00.00
END STA. 214+00.00

16-JUN-2014 08:31
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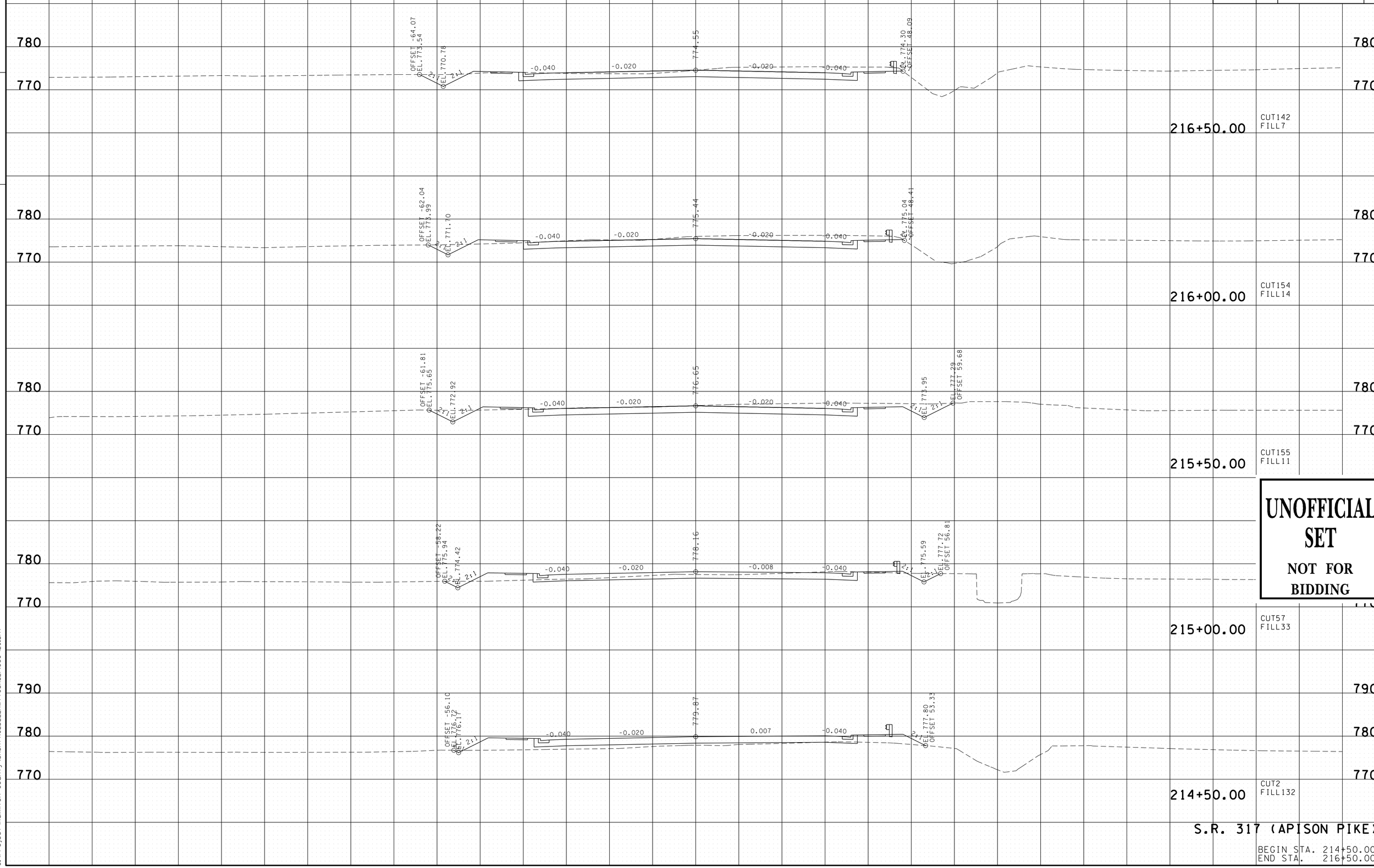
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 95 |
| CONST. | 2014 | STP/NH-317(14) | 108 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 214+50.00
END STA. 216+50.00

16-JUN-2014 08:31
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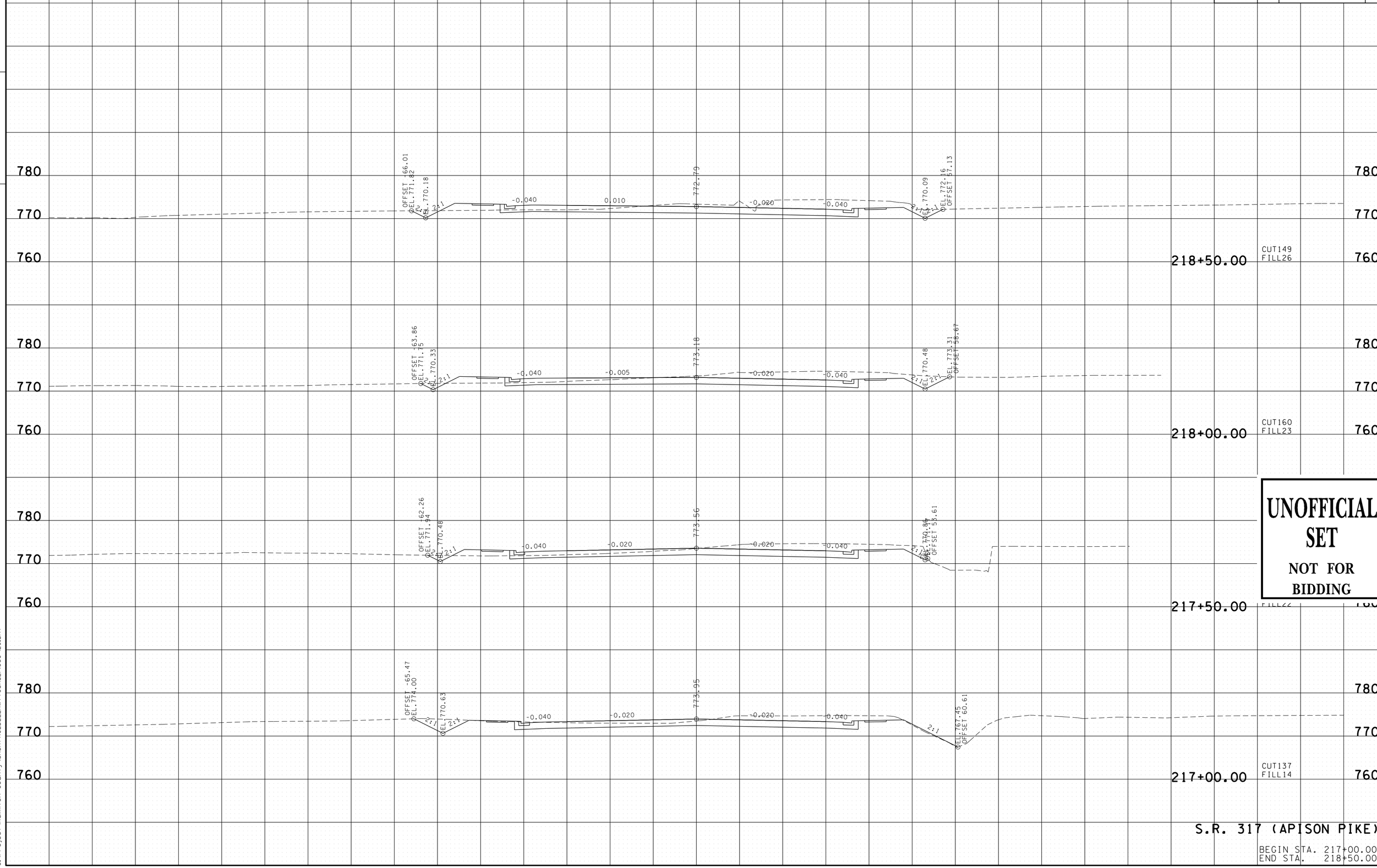
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 96 |
| CONST. | 2014 | STP/NH-317(14) | 109 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 217+00.00
END STA. 218+50.00

16-JUN-2014 08:31
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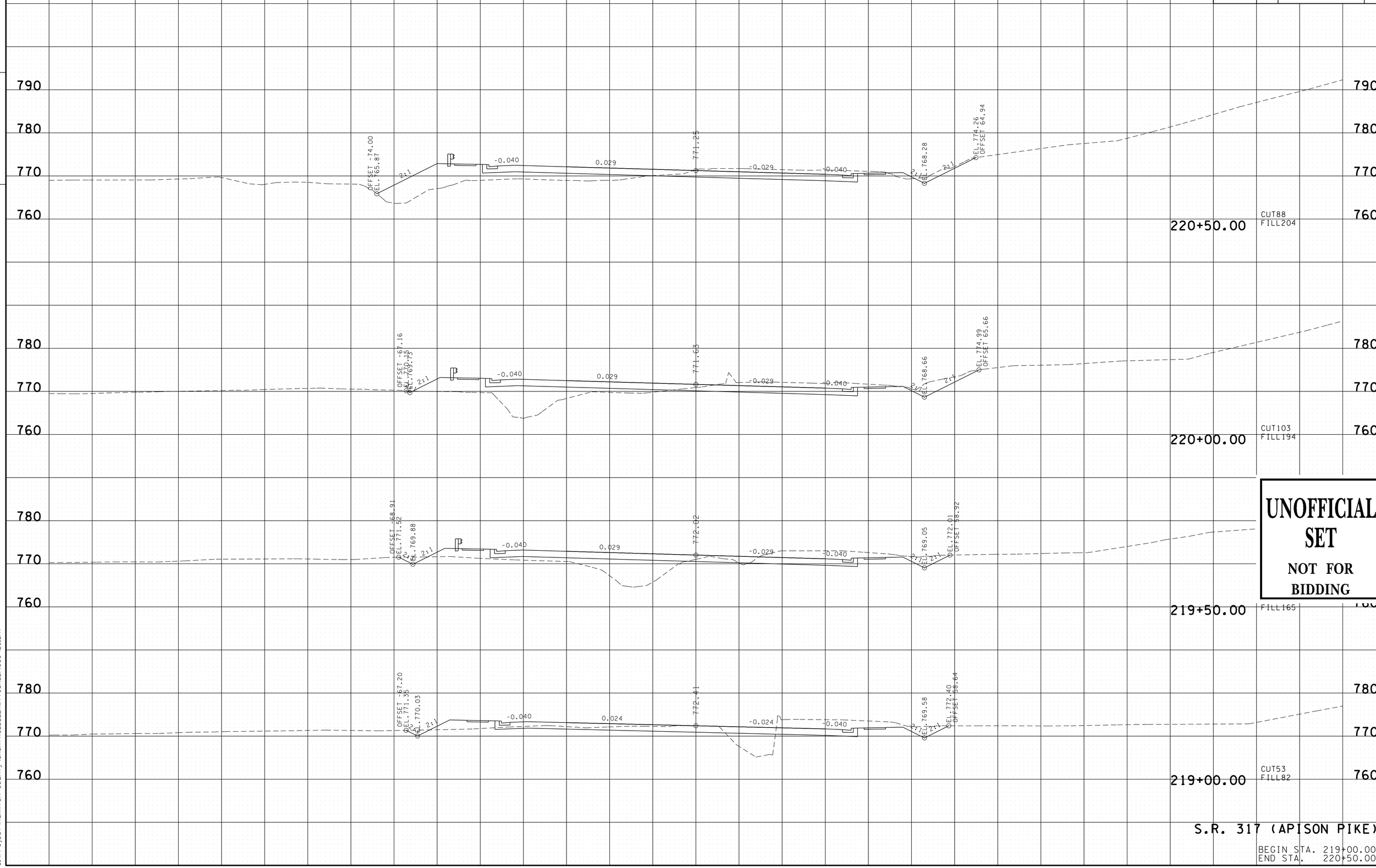
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 97 |
| CONST. | 2014 | STP/NH-317(14) | 110 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 219+00.00
END STA. 220+50.00

16-JUN-2014 08:31
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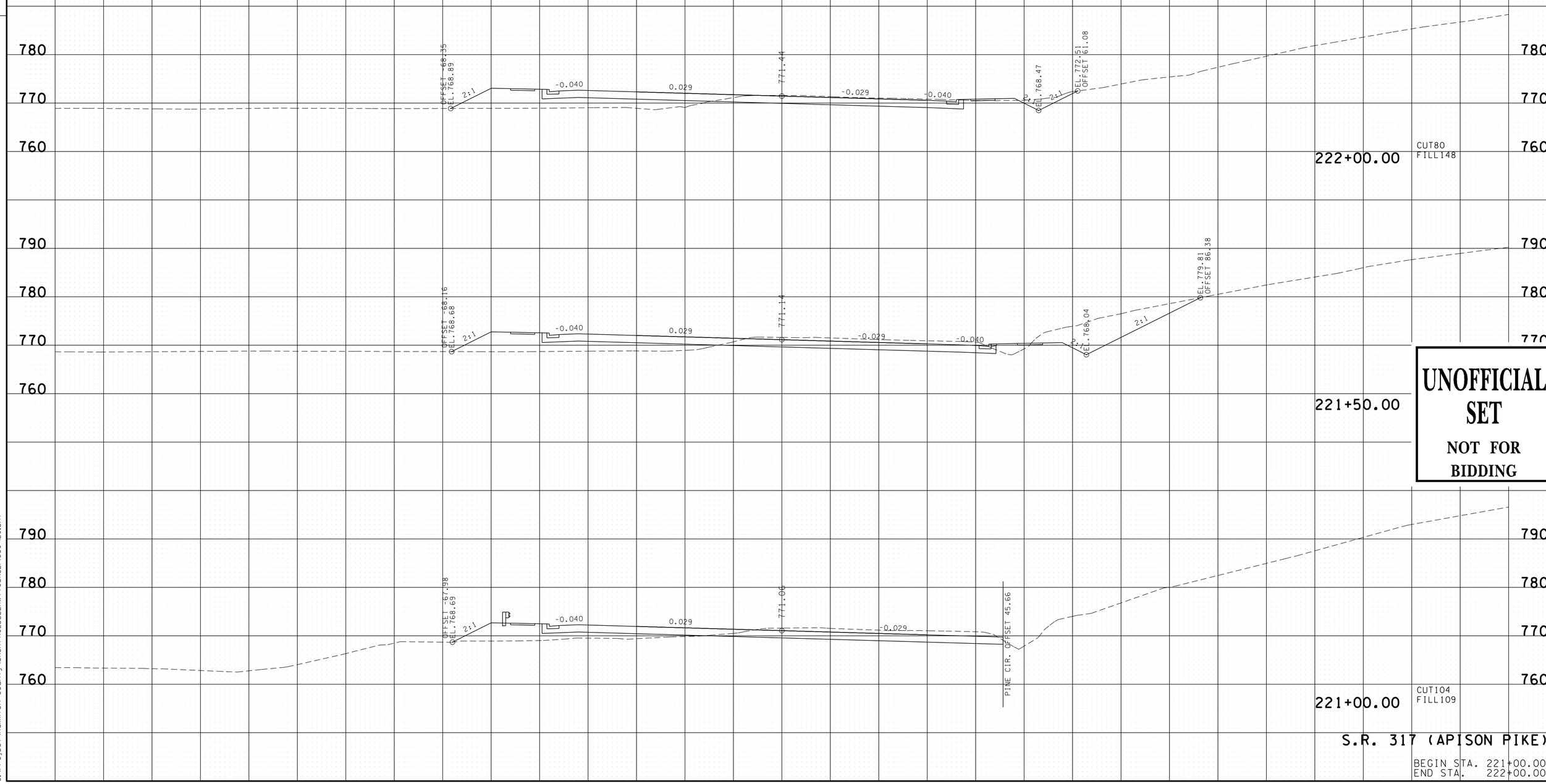
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 98 |
| CONST. | 2014 | STP/NH-317(14) | 111 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 221+00.00
END STA. 222+00.00

16-JUN-2014 08:31
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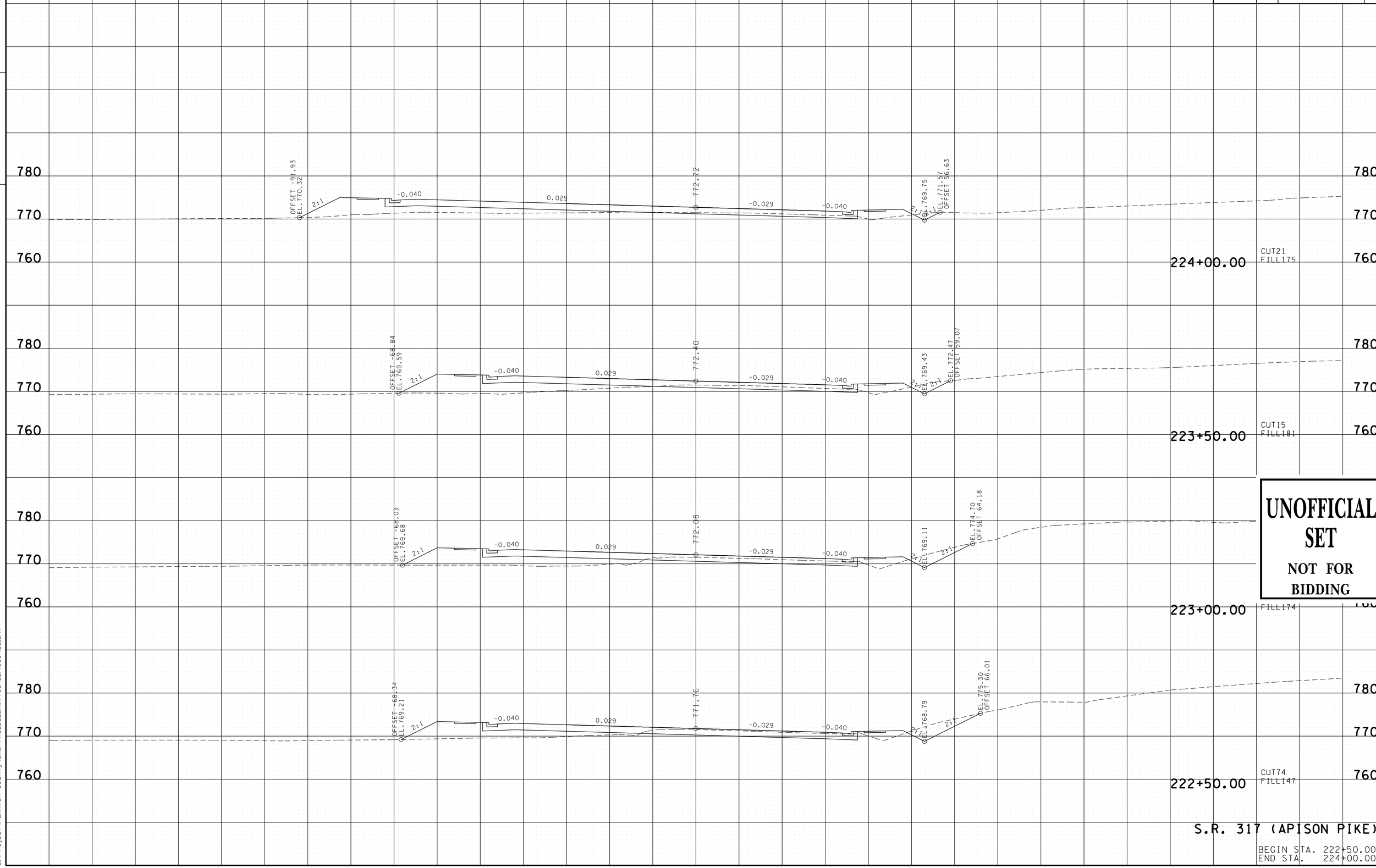
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 99 |
| CONST. | 2014 | STP/NH-317(14) | 112 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 222+50.00
END STA. 224+00.00

16-JUN-2014 08:31
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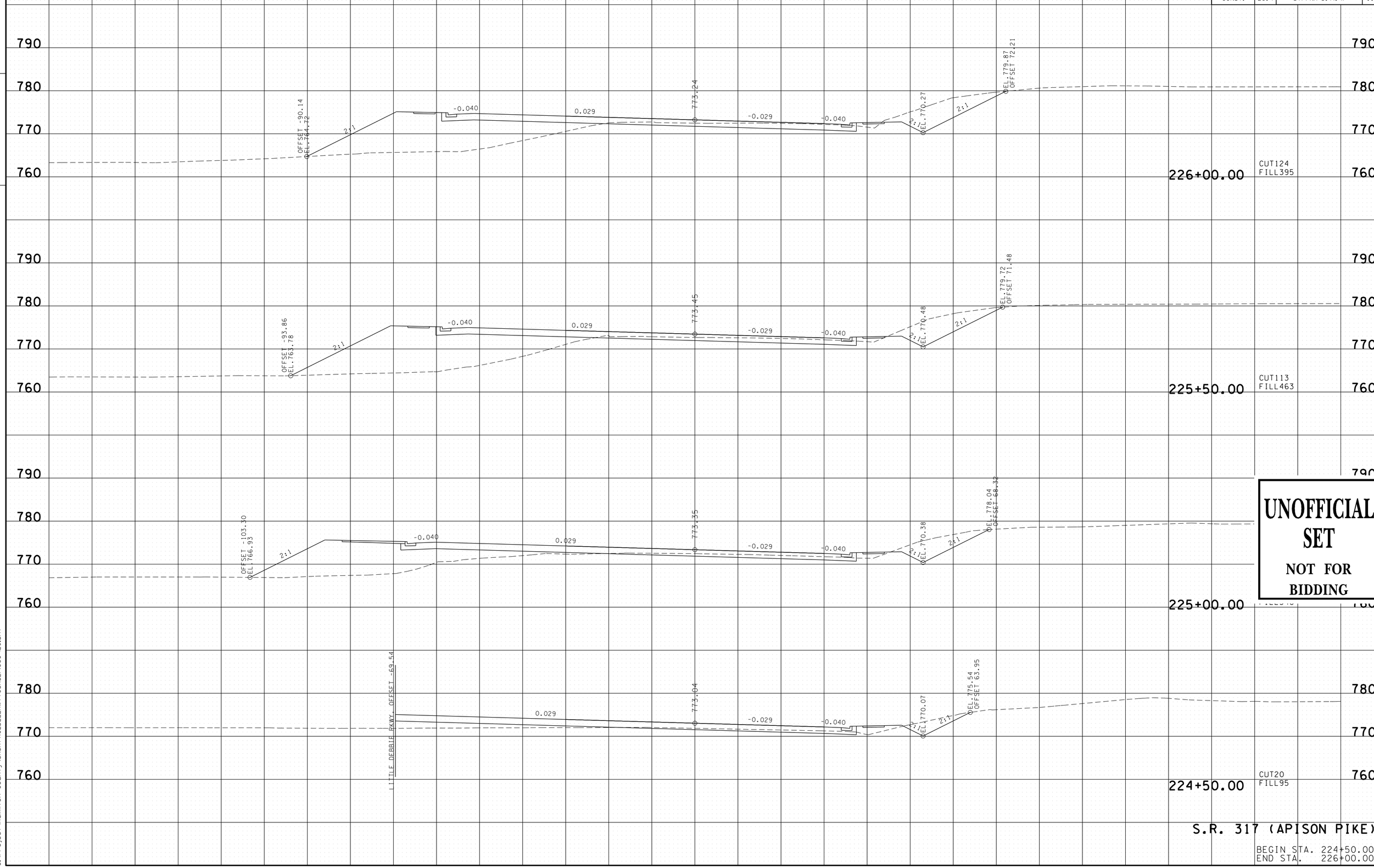
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 100 |
| CONST. | 2014 | STP/NH-317(14) | 113 |

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




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 224+50.00
END STA. 226+00.00

16-JUN-2014 08:31
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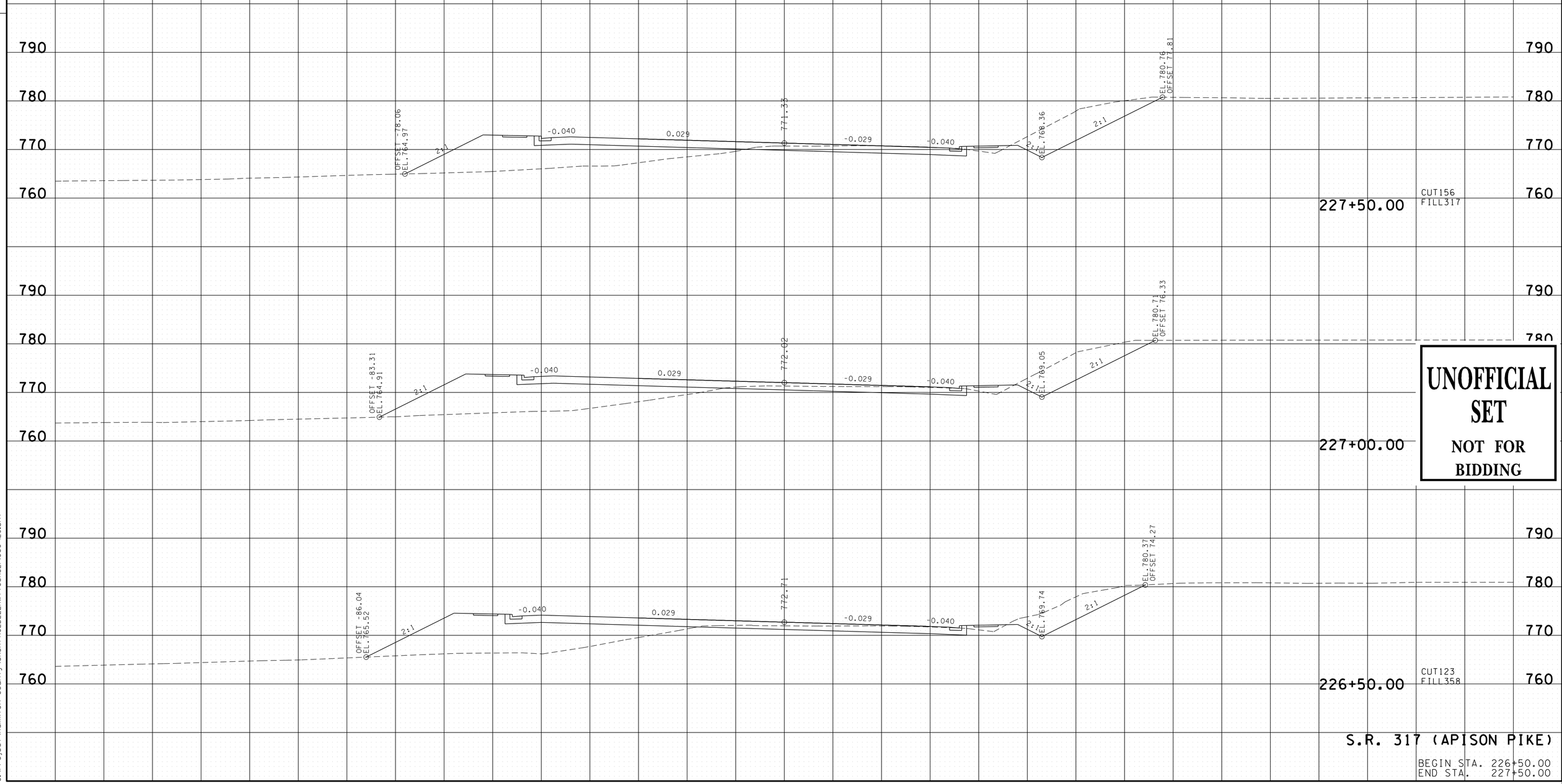
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 101 |
| CONST. | 2014 | STP/NH-317(14) | 114 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 226+50.00
END STA. 227+50.00

16-JUN-2014 08:31
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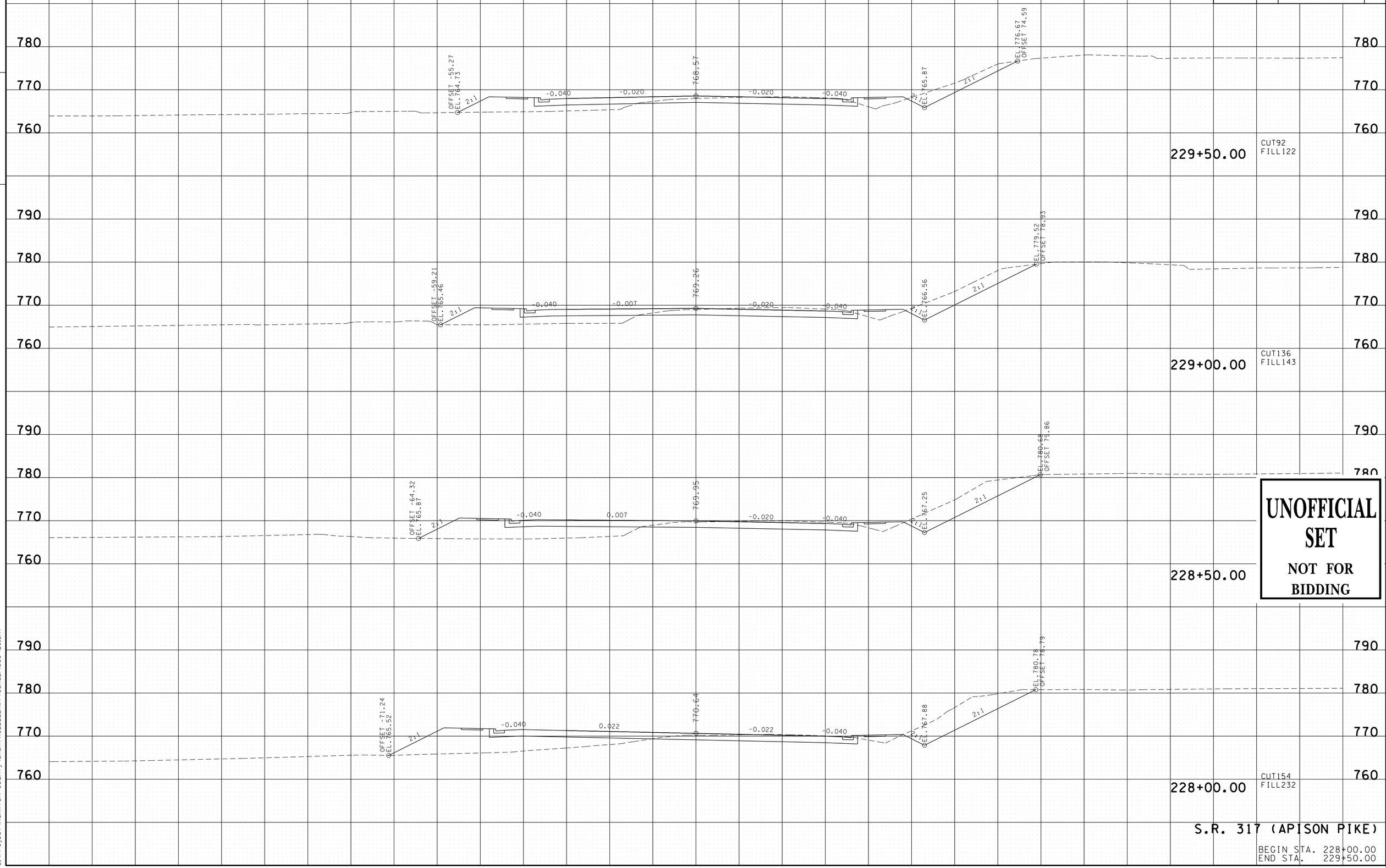
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 102 |
| CONST. | 2014 | STP/NH-317(14) | 115 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 228+00.00
END STA. 229+50.00

16-JUN-2014 08:31
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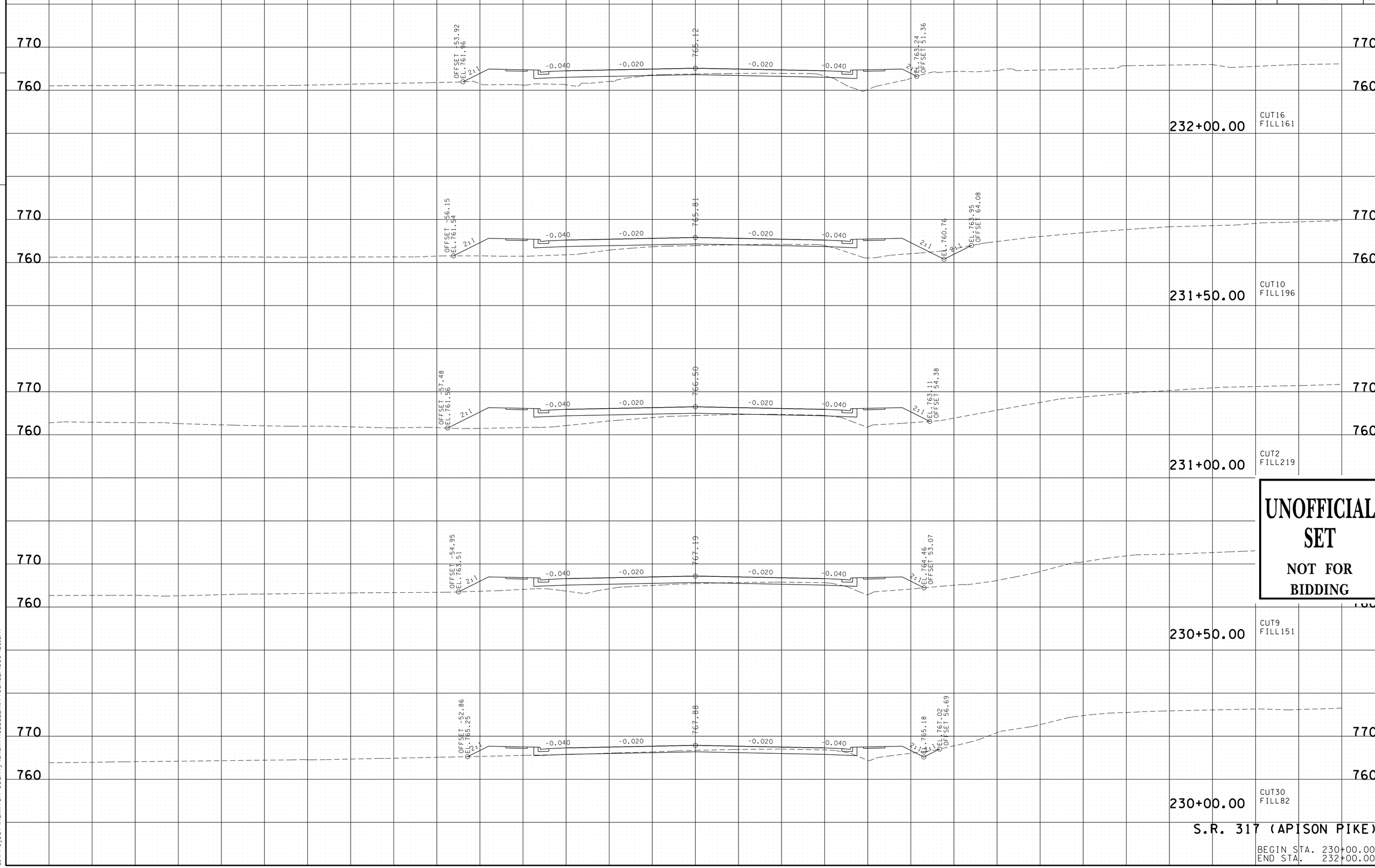
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 103 |
| CONST. | 2014 | STP/NH-317(14) | 116 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 230+00.00
END STA. 232+00.00

16-JUN-2014 08:31
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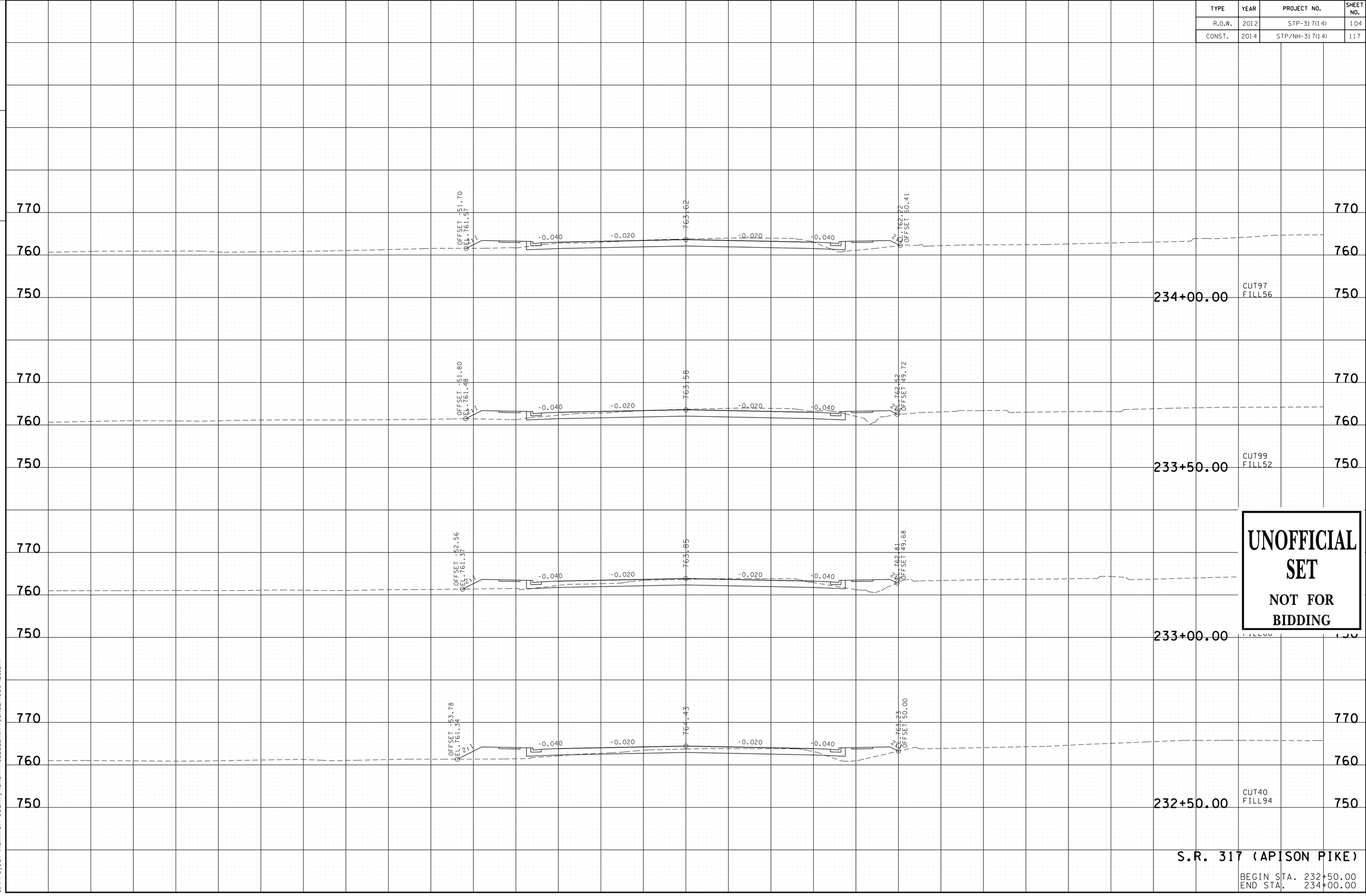
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 104 |
| CONST. | 2014 | STP/NH-317(14) | 117 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 232+50.00
END STA. 234+00.00

16-JUN-2014 08:31
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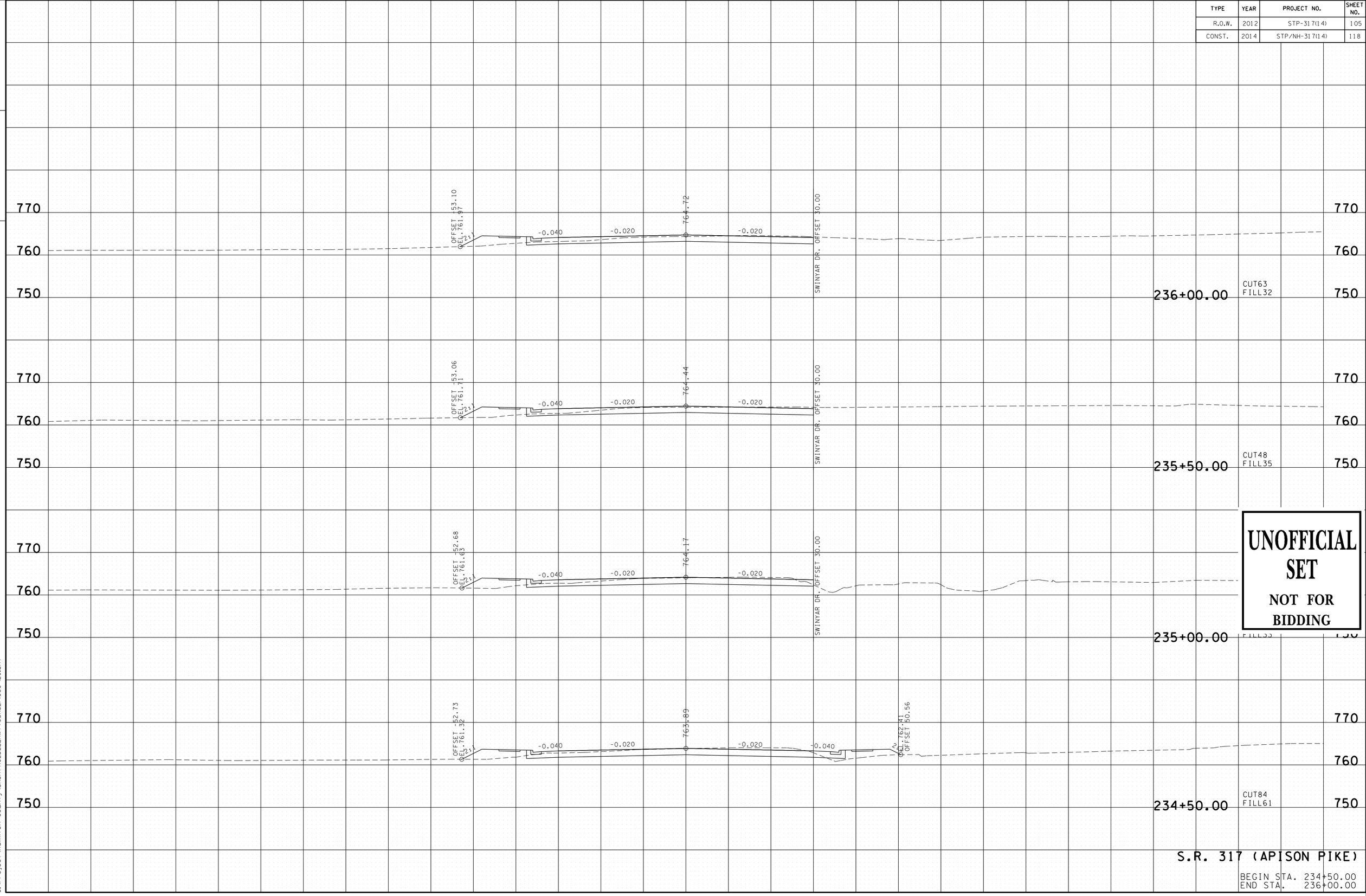
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 105 |
| CONST. | 2014 | STP/NH-317(14) | 118 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 234+50.00
END STA. 236+00.00

16-JUN-2014 08:31
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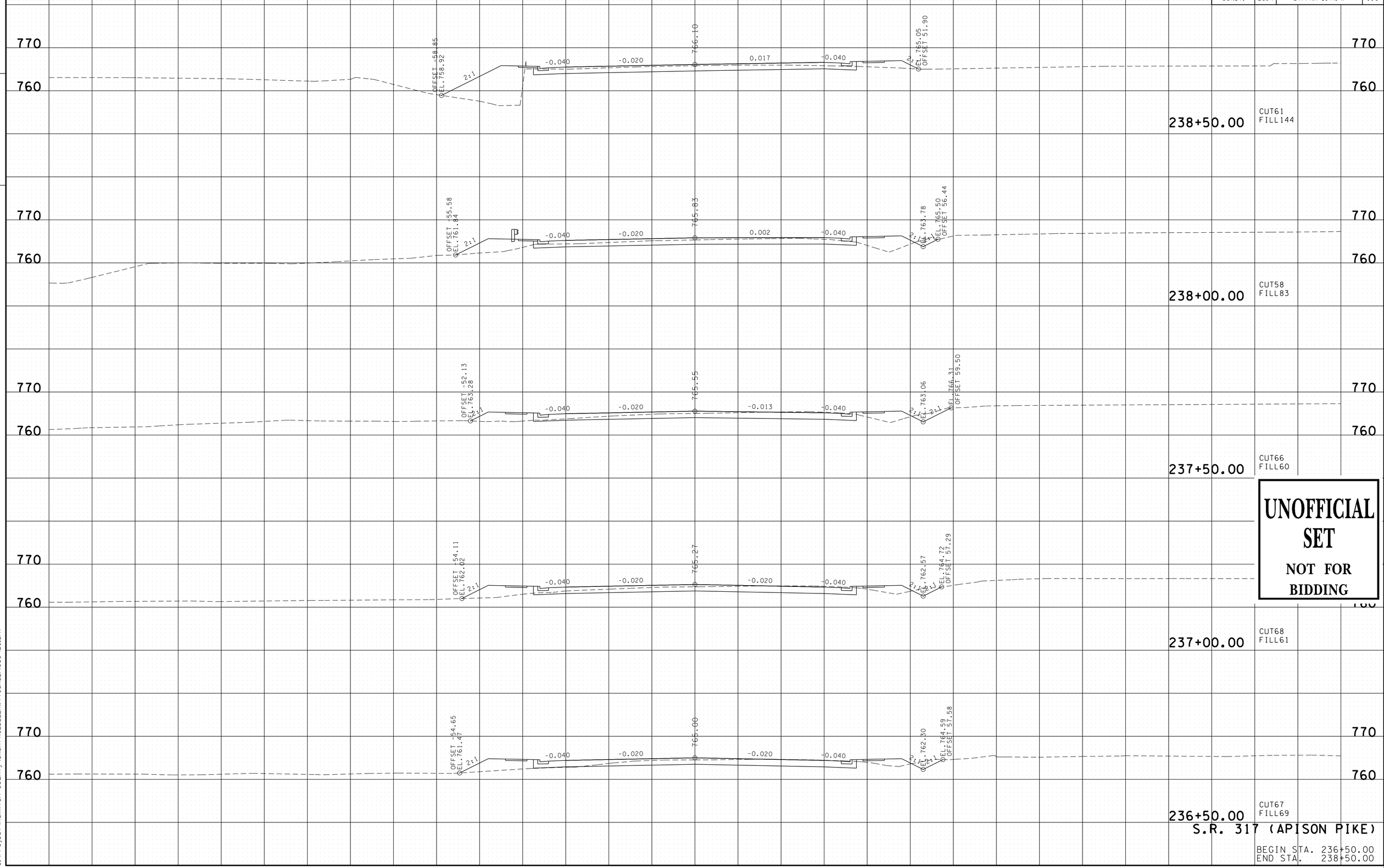
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 106 |
| CONST. | 2014 | STP/NH-317(14) | 119 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

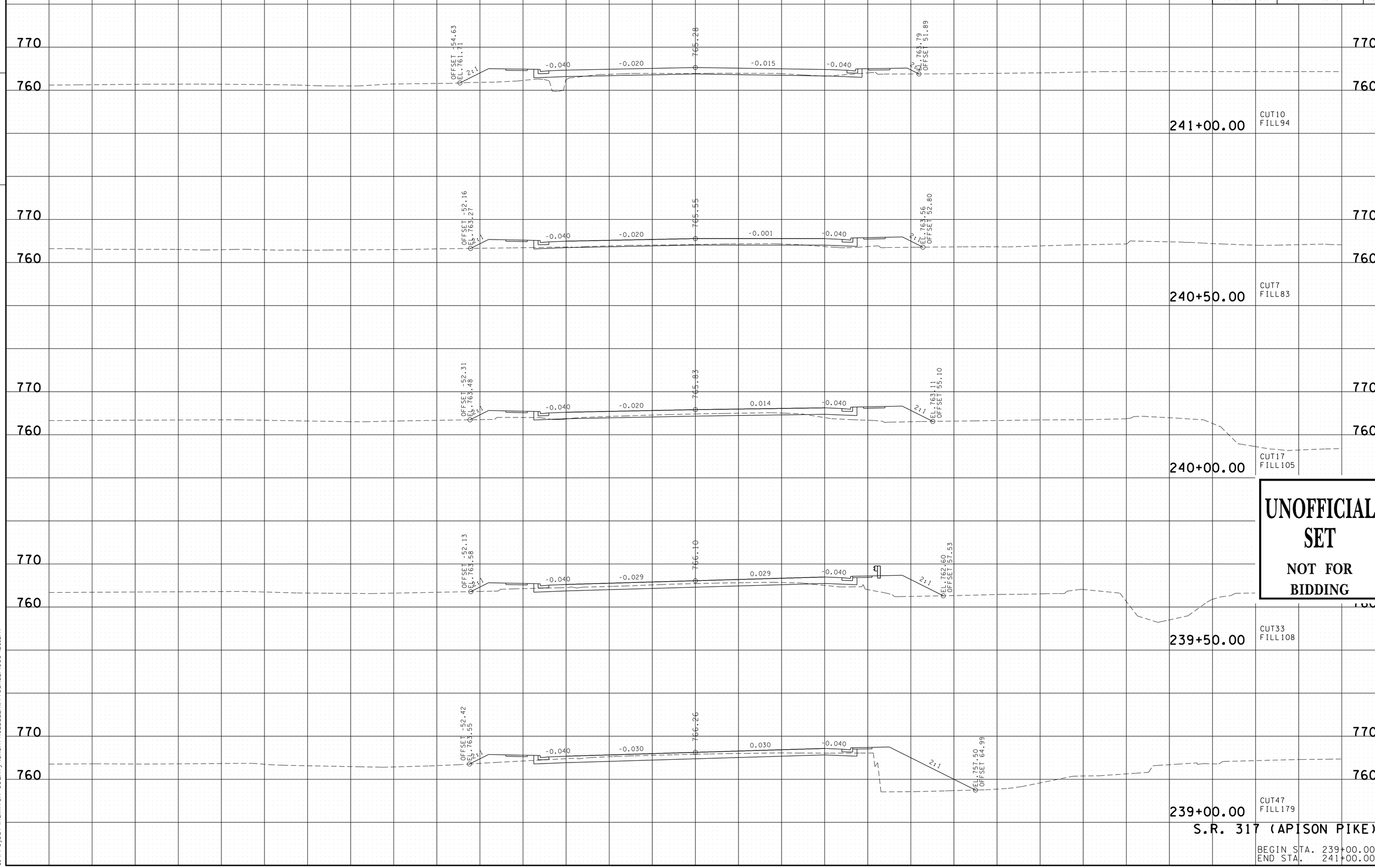
BEGIN STA. 236+50.00
END STA. 238+50.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR32\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 107 |
| CONST. | 2014 | STP/NH-317(14) | 120 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

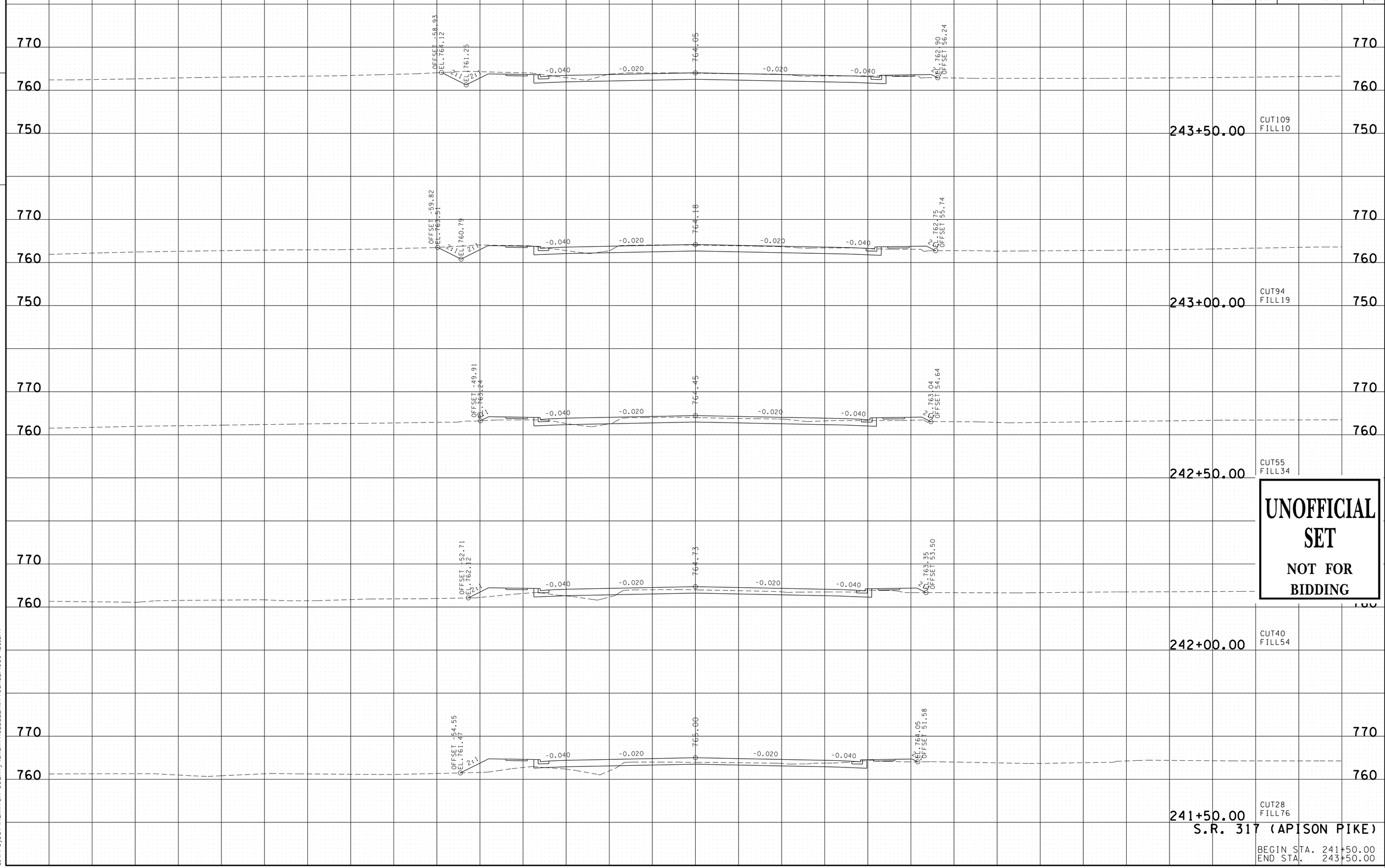
BEGIN STA. 239+00.00
END STA. 241+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TO SR32\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 108 |
| CONST. | 2014 | STP/NH-317(14) | 121 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 241+50.00
END STA. 243+50.00

16-JUN-2014 08:31
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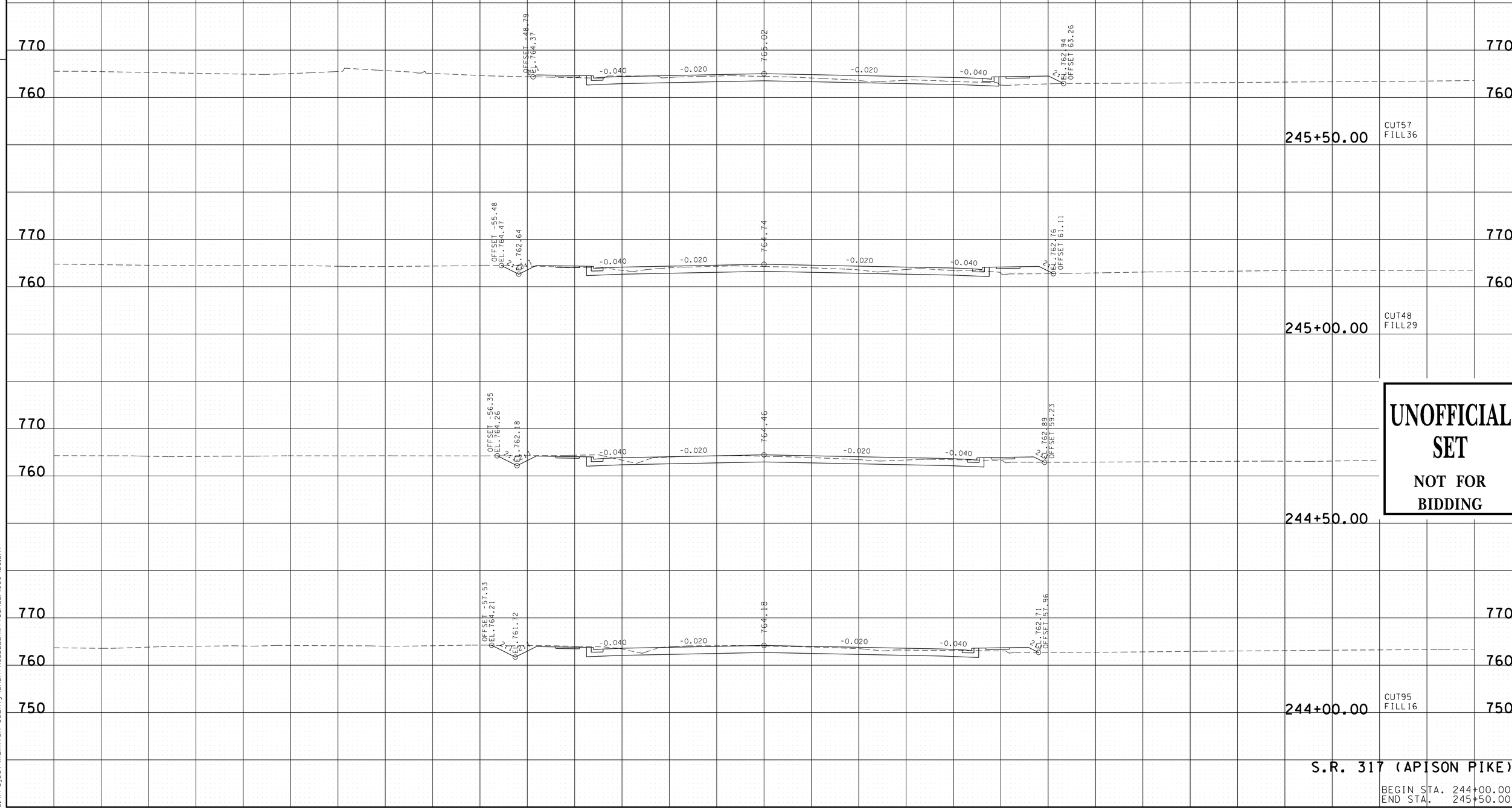
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 109 |
| CONST. | 2014 | STP/NH-317(14) | 122 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 244+00.00
END STA. 245+50.00

16-JUN-2014 08:31
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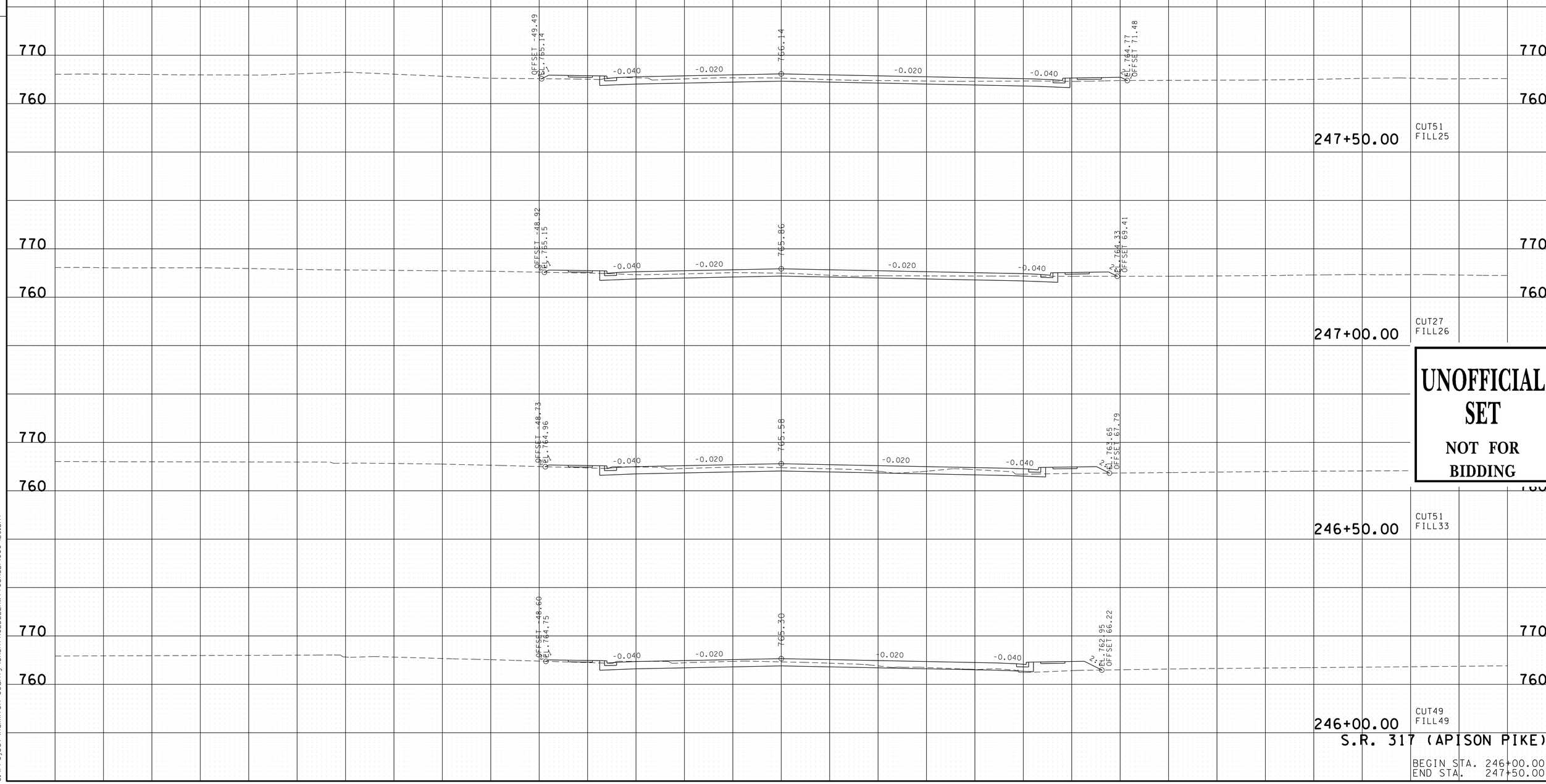
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 110 |
| CONST. | 2014 | STP/NH-317(14) | 123 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 246+00.00
END STA. 247+50.00

16-JUN-2014 08:31
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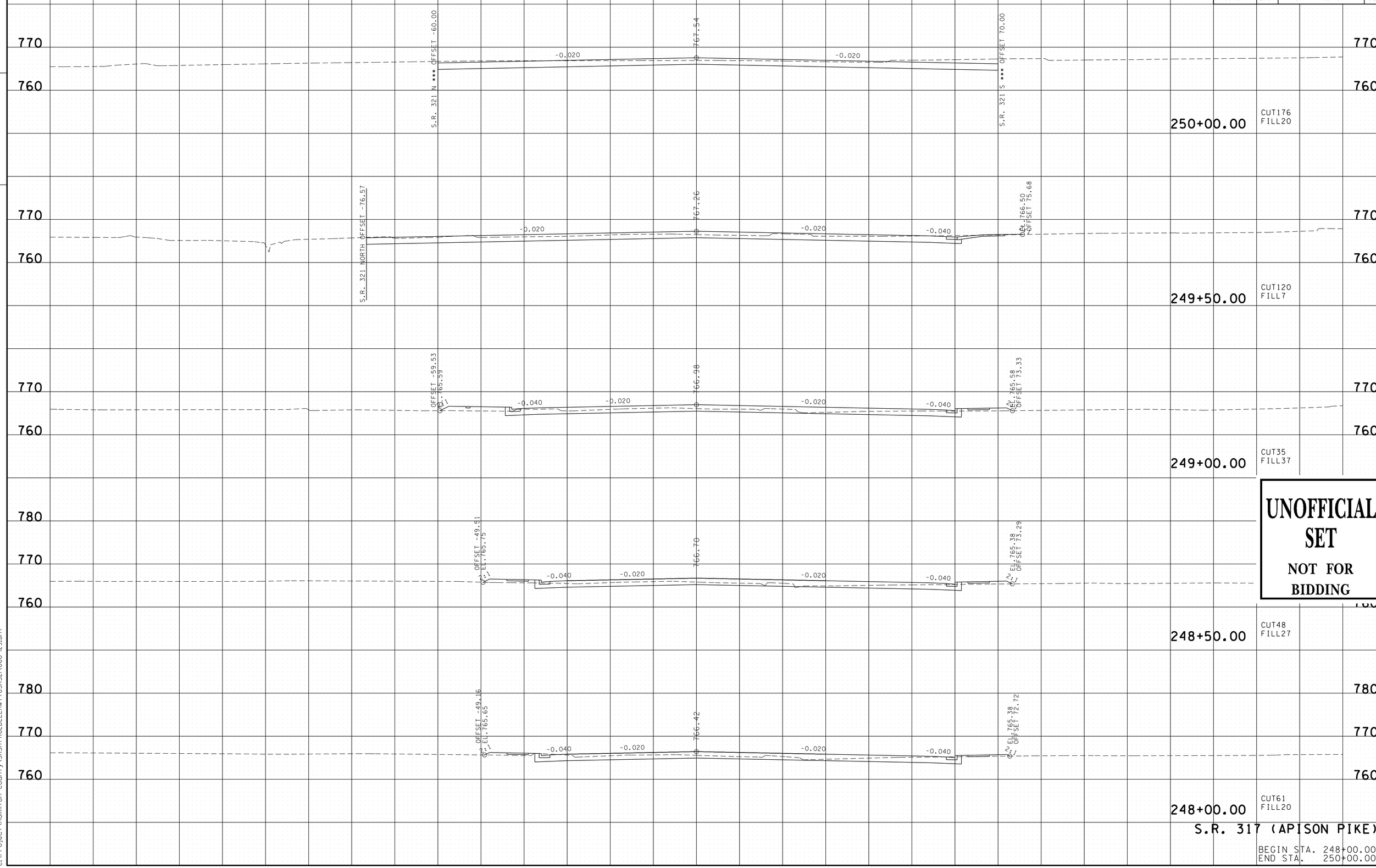
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 111 |
| CONST. | 2014 | STP/NH-317(14) | 124 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

BEGIN STA. 248+00.00
END STA. 250+00.00

16-JUN-2014 08:31
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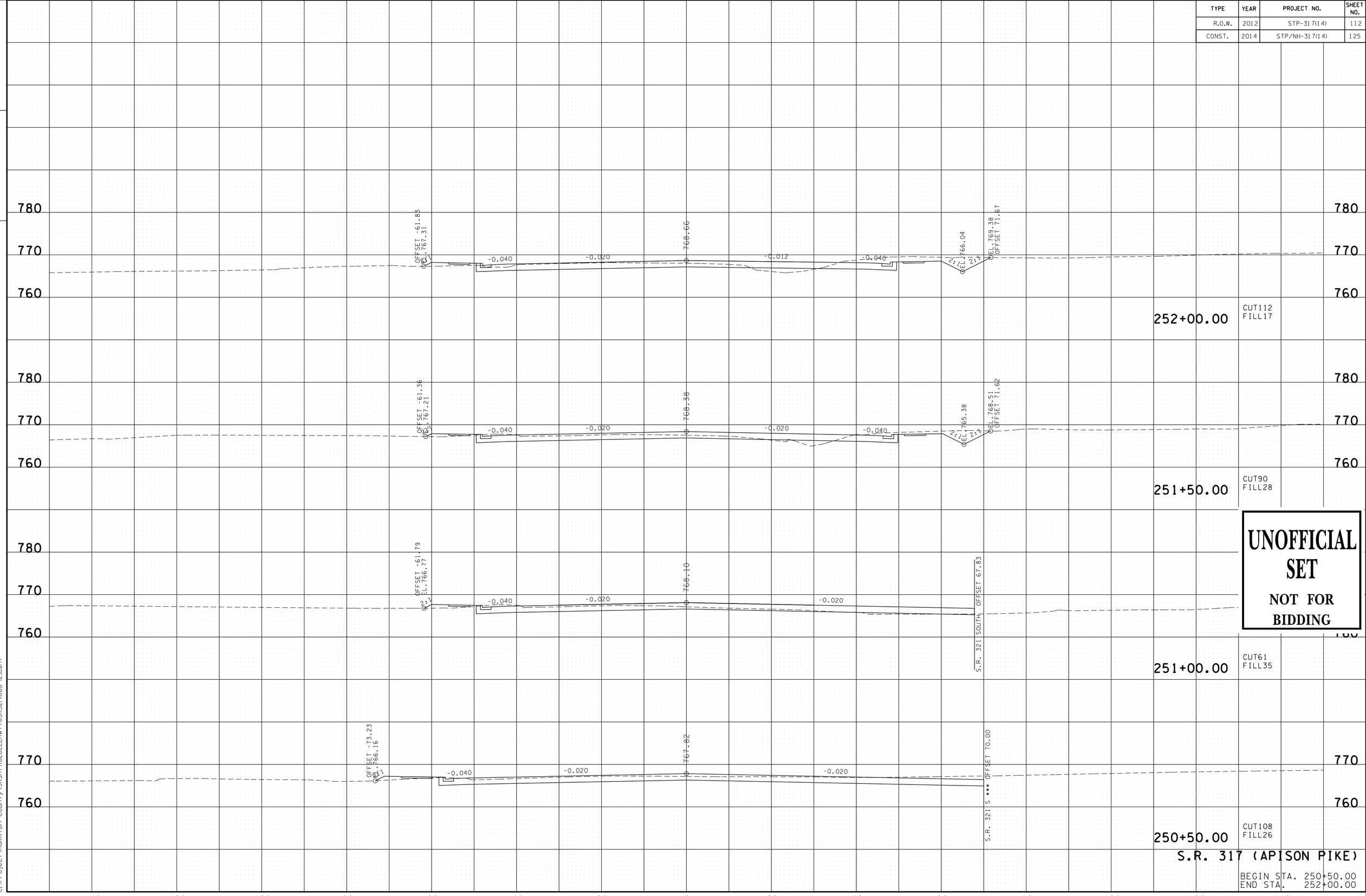
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 112 |
| CONST. | 2014 | STP/NH-317(14) | 125 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

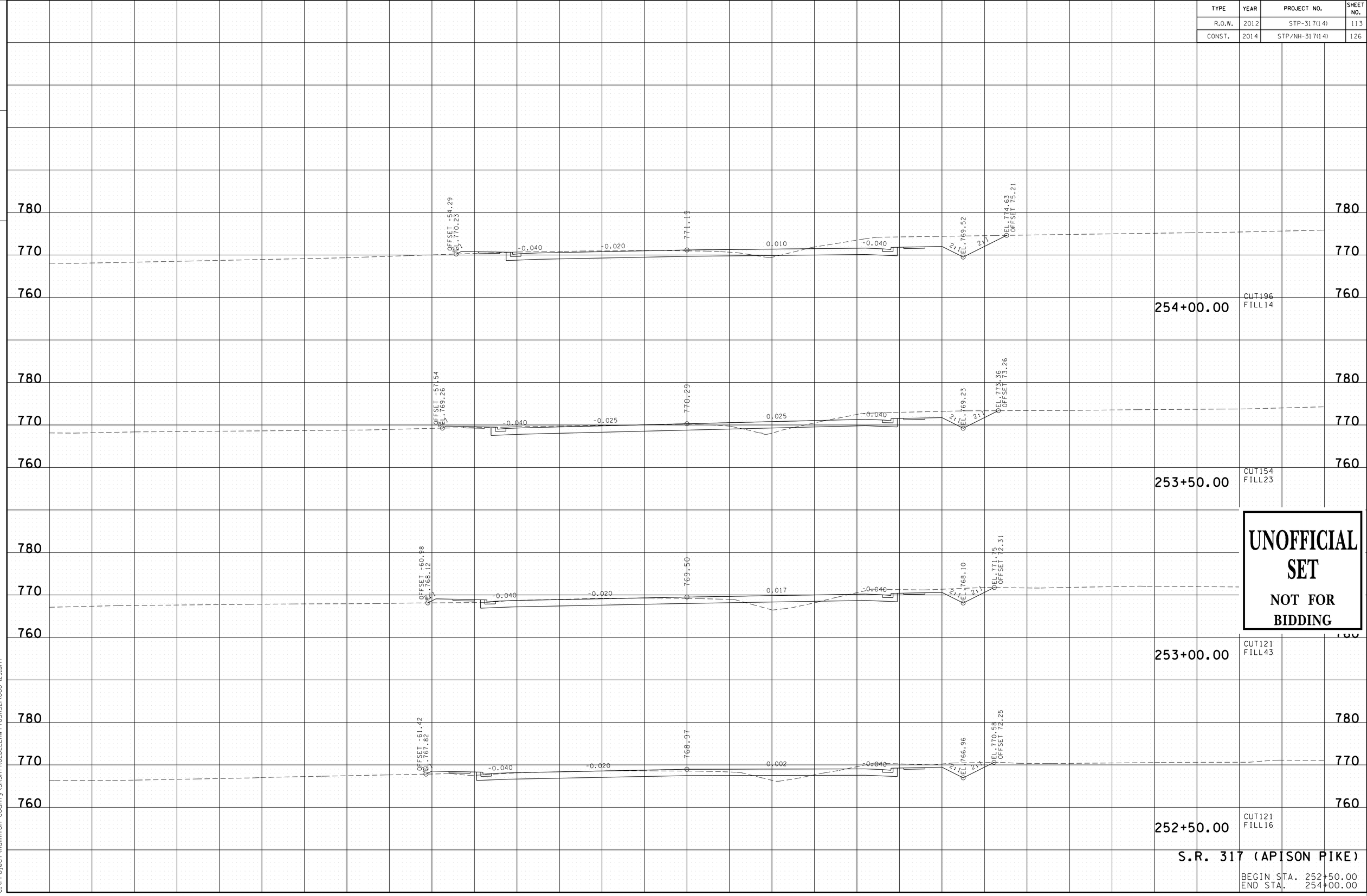
BEGIN STA. 250+50.00
END STA. 252+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 113 |
| CONST. | 2014 | STP/NH-317(14) | 126 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

S.R. 317 (APISON PIKE)

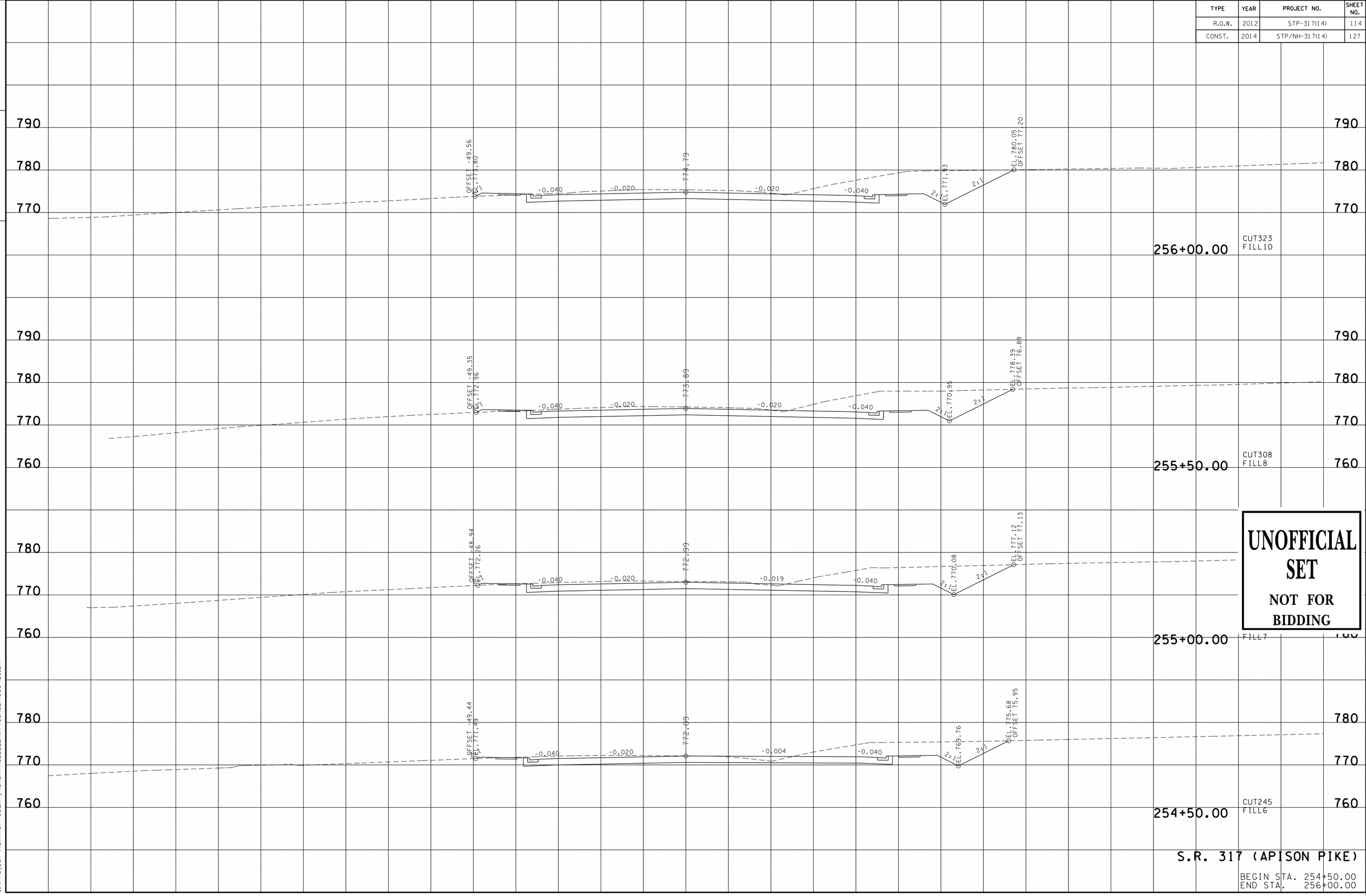
BEGIN STA. 252+50.00
END STA. 254+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR321\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 114 |
| CONST. | 2014 | STP/NH-317(14) | 127 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

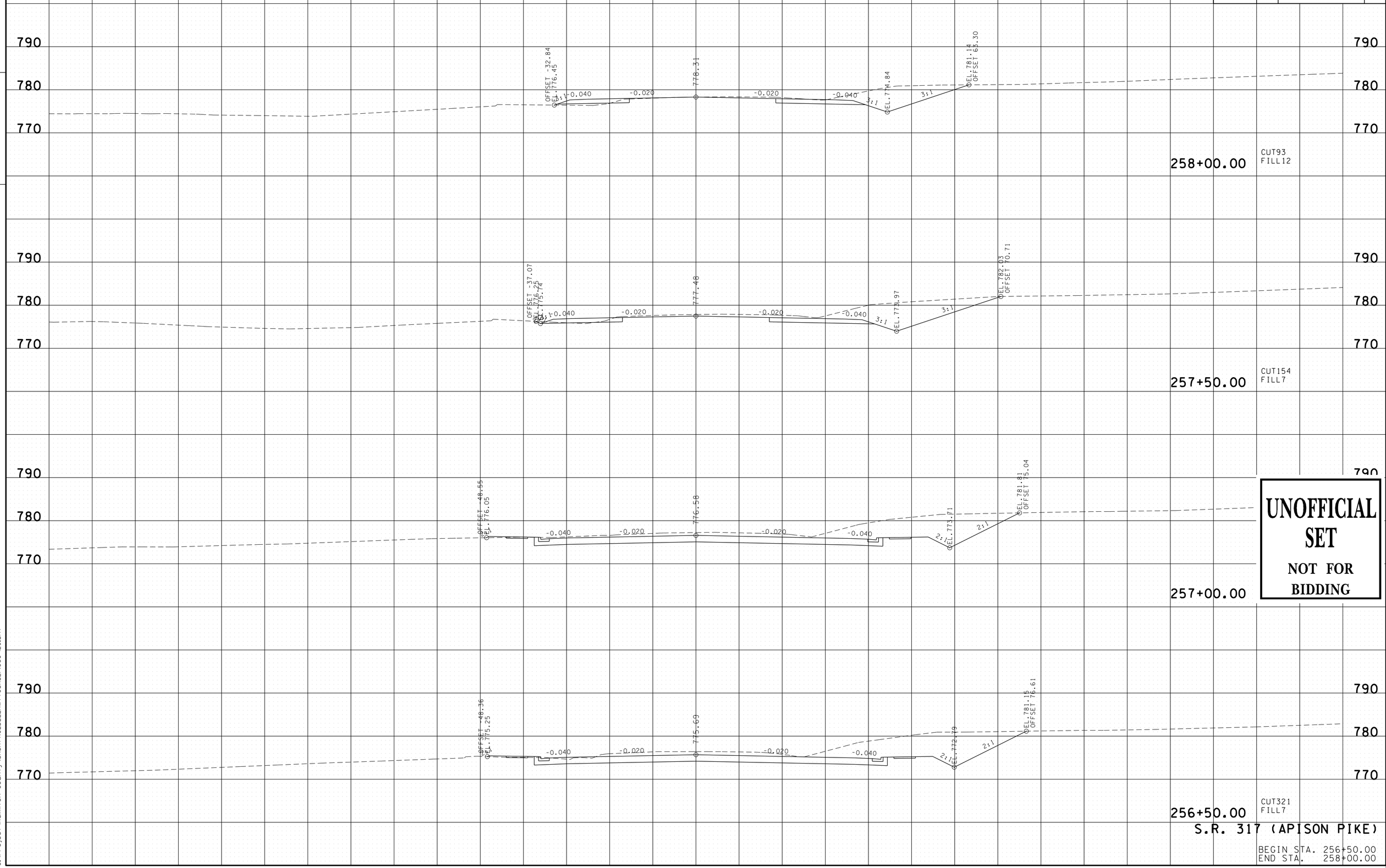
BEGIN STA. 254+50.00
END STA. 256+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR321\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 115 |
| CONST. | 2014 | STP/NH-317(14) | 128 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

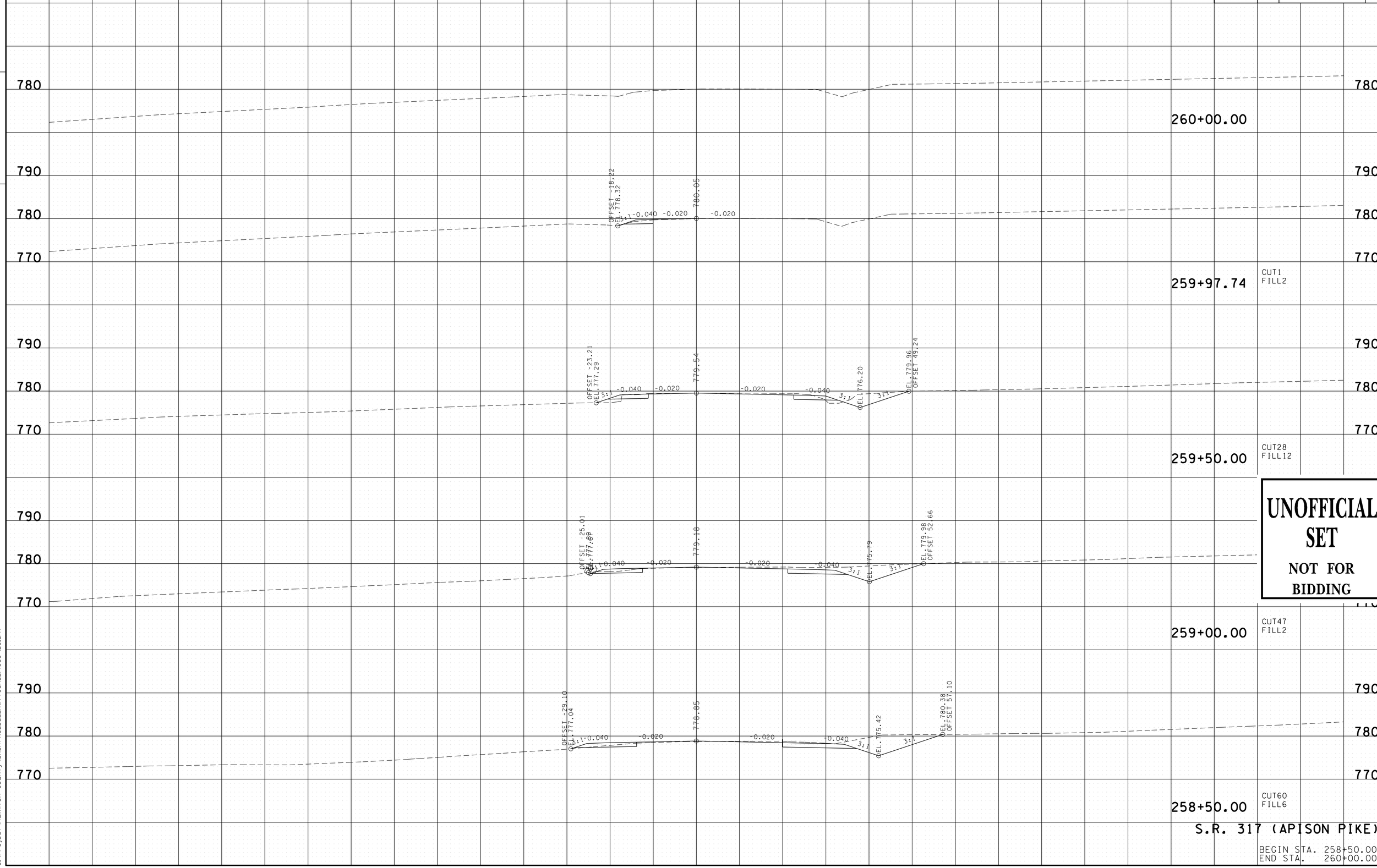
BEGIN STA. 256+50.00
END STA. 258+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 116 |
| CONST. | 2014 | STP/NH-317(14) | 129 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 317 (APISON PIKE)

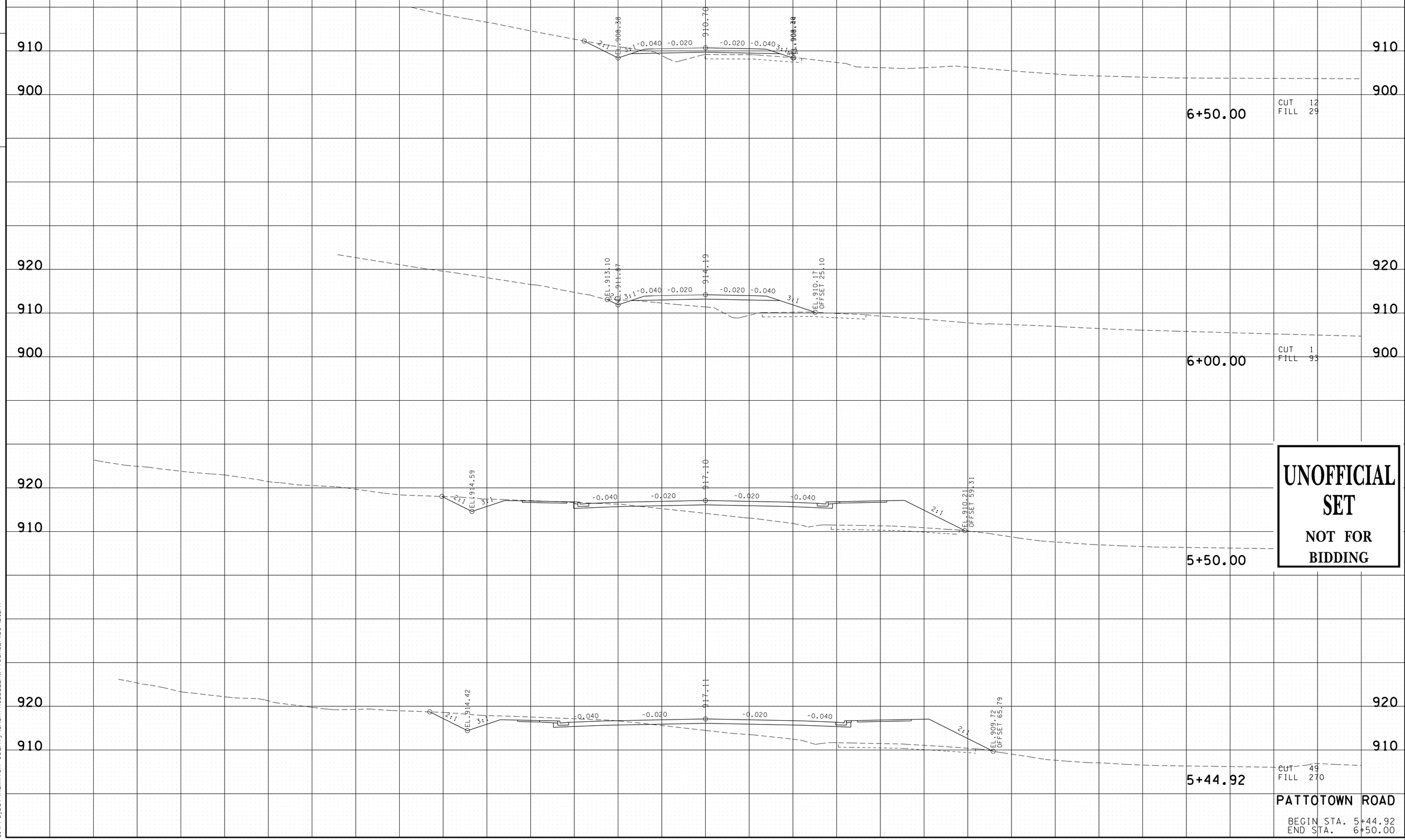
BEGIN STA. 258+50.00
END STA. 260+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\060-129.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 119 |
| CONST. | 2014 | STP/NH-317(14) | 130 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

PATTOTOWN ROAD

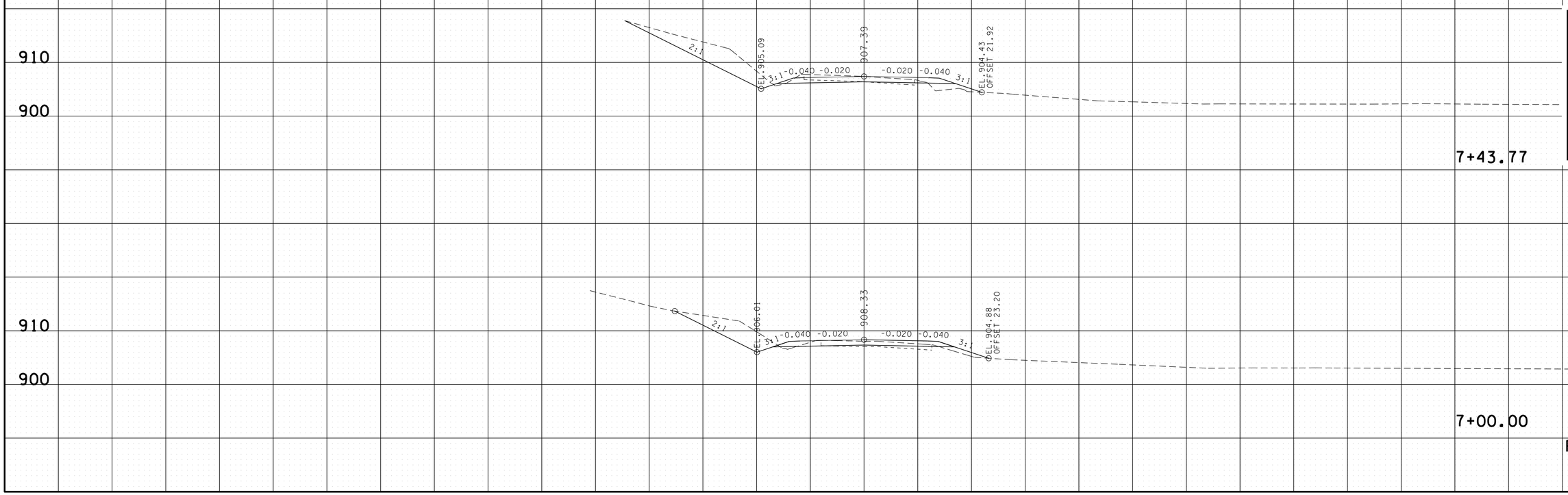
BEGIN STA. 5+44.92
END STA. 6+50.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR321\130-131.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 120 |
| CONST. | 2014 | STP/NH-317(14) | 131 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

CUT 52
FILL 13

PATTOTOWN ROAD

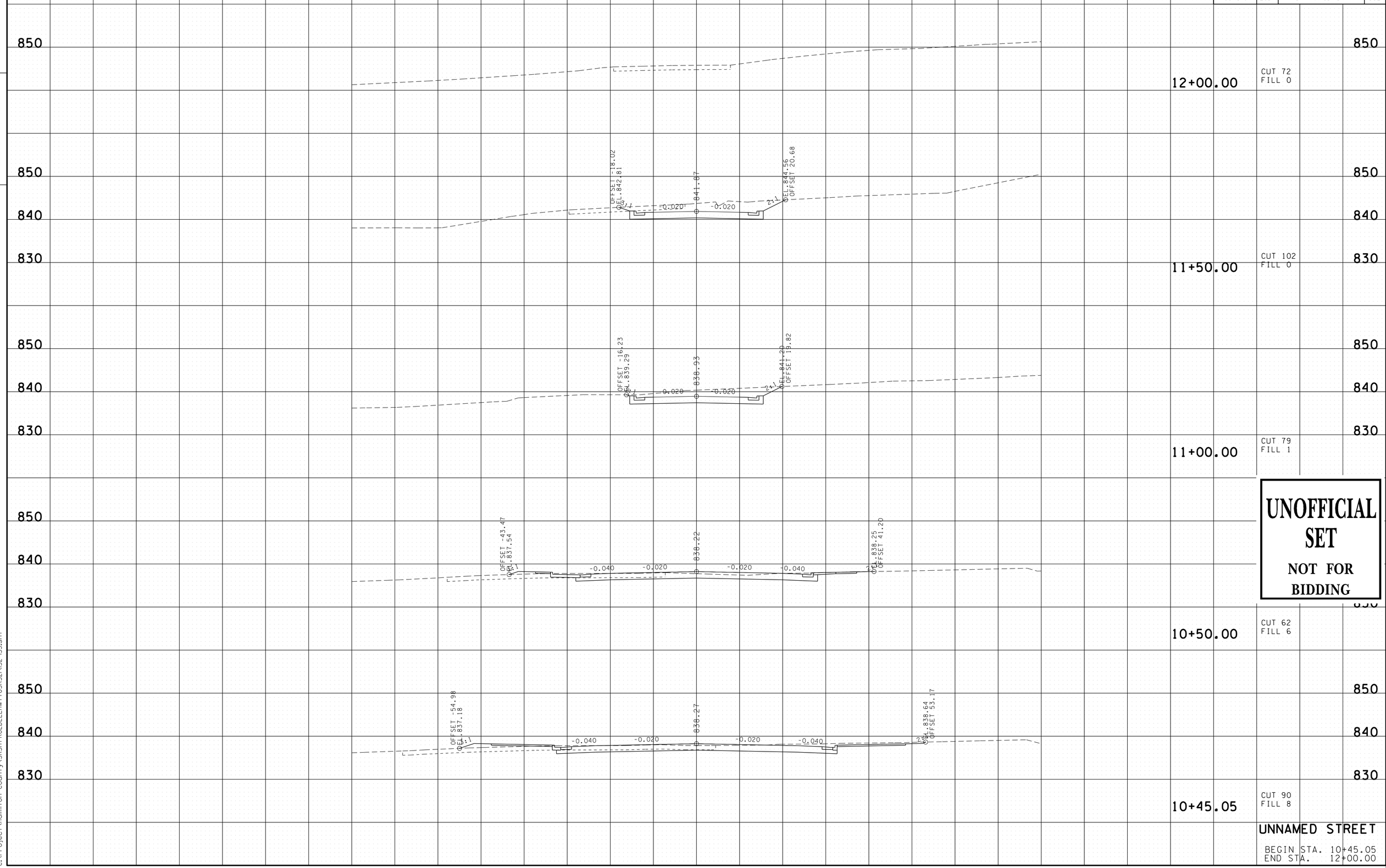
BEGIN STA. 7+00.00
END STA. 7+43.77

16-JUN-2014 08:31
C:\Project\Hamilton County\SR31TFROLDLEEHWYTOSR32\130-131.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 121 |
| CONST. | 2014 | STP/NH-317(14) | 132 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

UNNAMED STREET

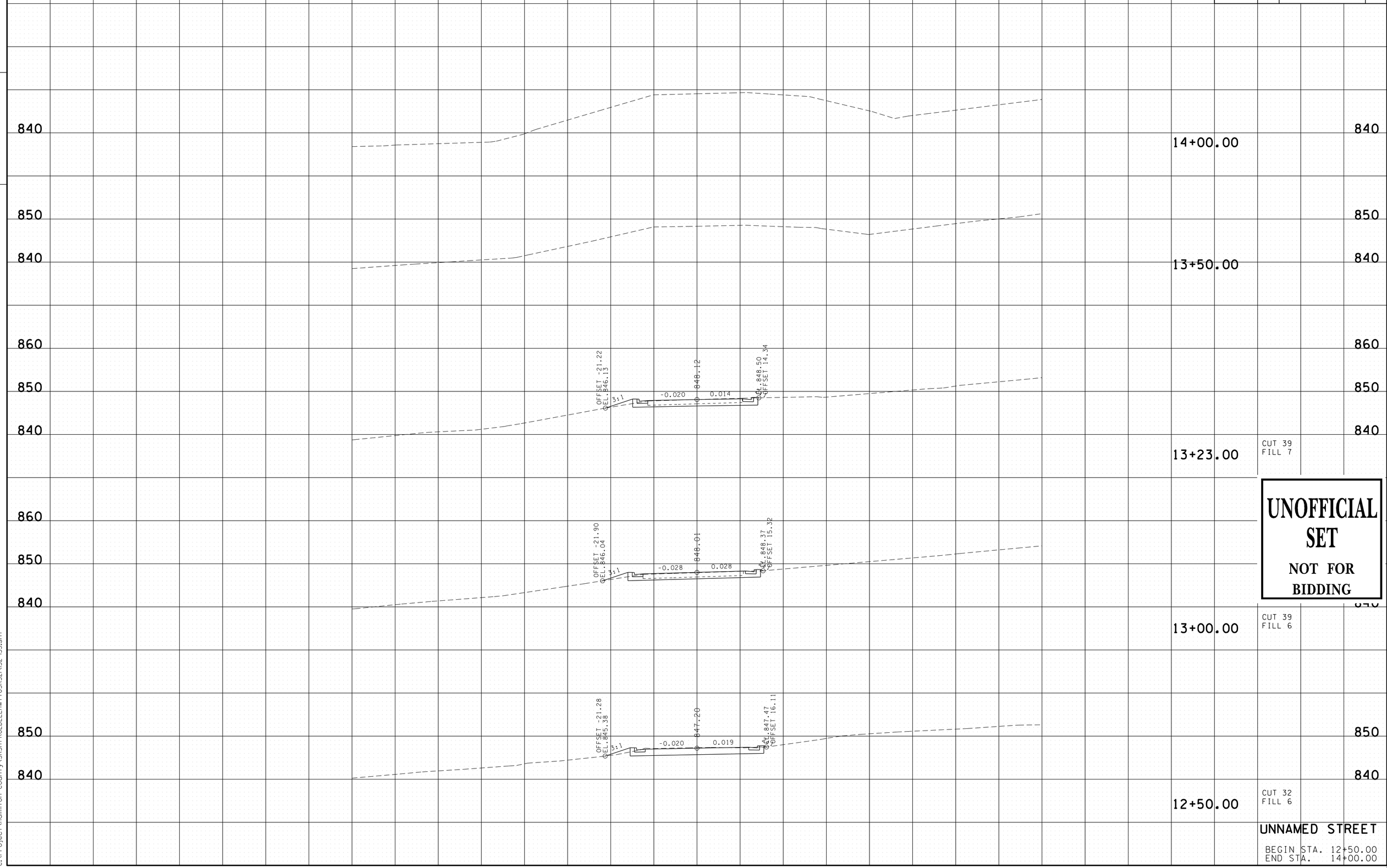
BEGIN STA. 10+45.05
END STA. 12+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR32\\32-133.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 122 |
| CONST. | 2014 | STP/NH-317(14) | 133 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




16-JUN-2014 08:31
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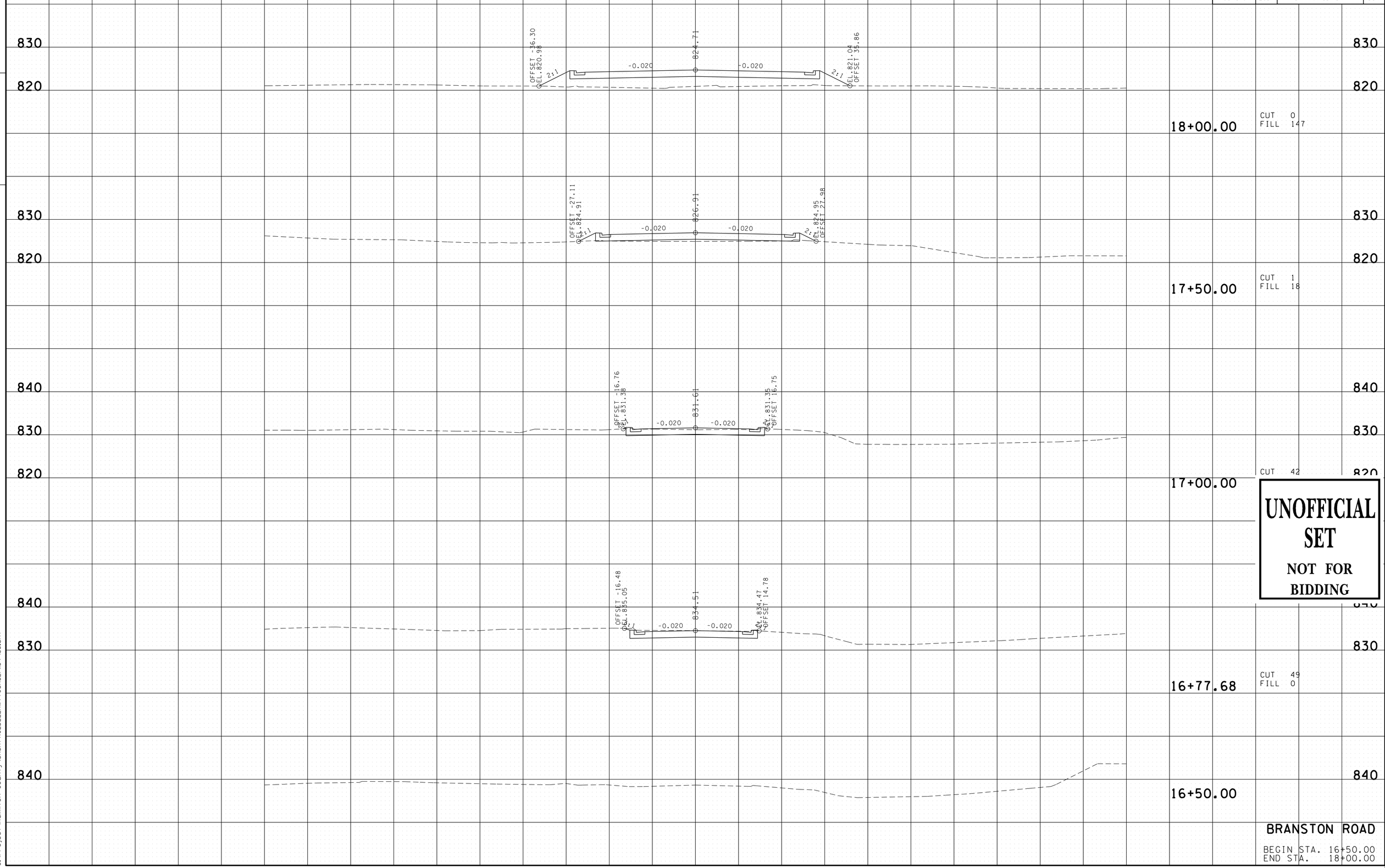
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 123 |
| CONST. | 2014 | STP/NH-317(14) | 134 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




BRANSTON ROAD

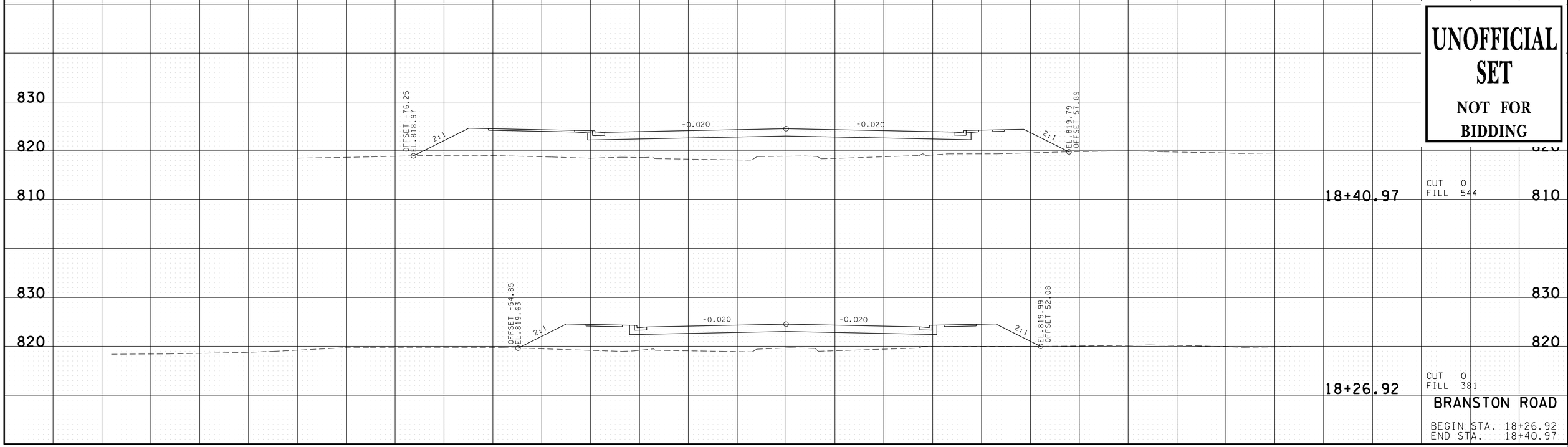
BEGIN STA. 16+50.00
END STA. 18+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR32\134-135.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 124 |
| CONST. | 2014 | STP/NH-317(14) | 135 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

BRANSTON ROAD

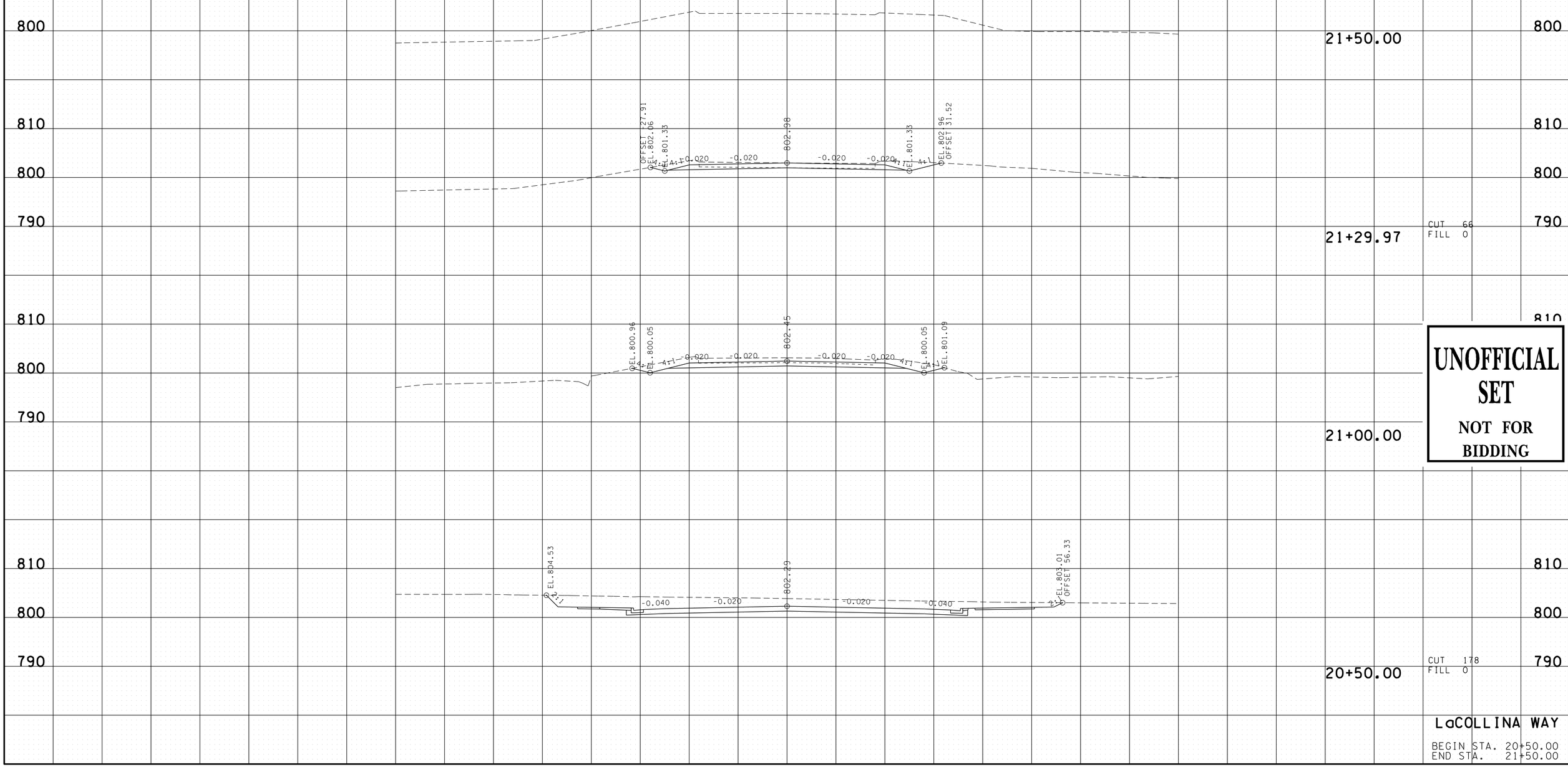
BEGIN STA. 18+26.92
END STA. 18+40.97

16-JUN-2014 08:31
C:\Project\Hamilton County\SR31TFROLDLEEHWYTOSR32\134-135.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 125 |
| CONST. | 2014 | STP/NH-317(14) | 136 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

LaCOLLINA WAY

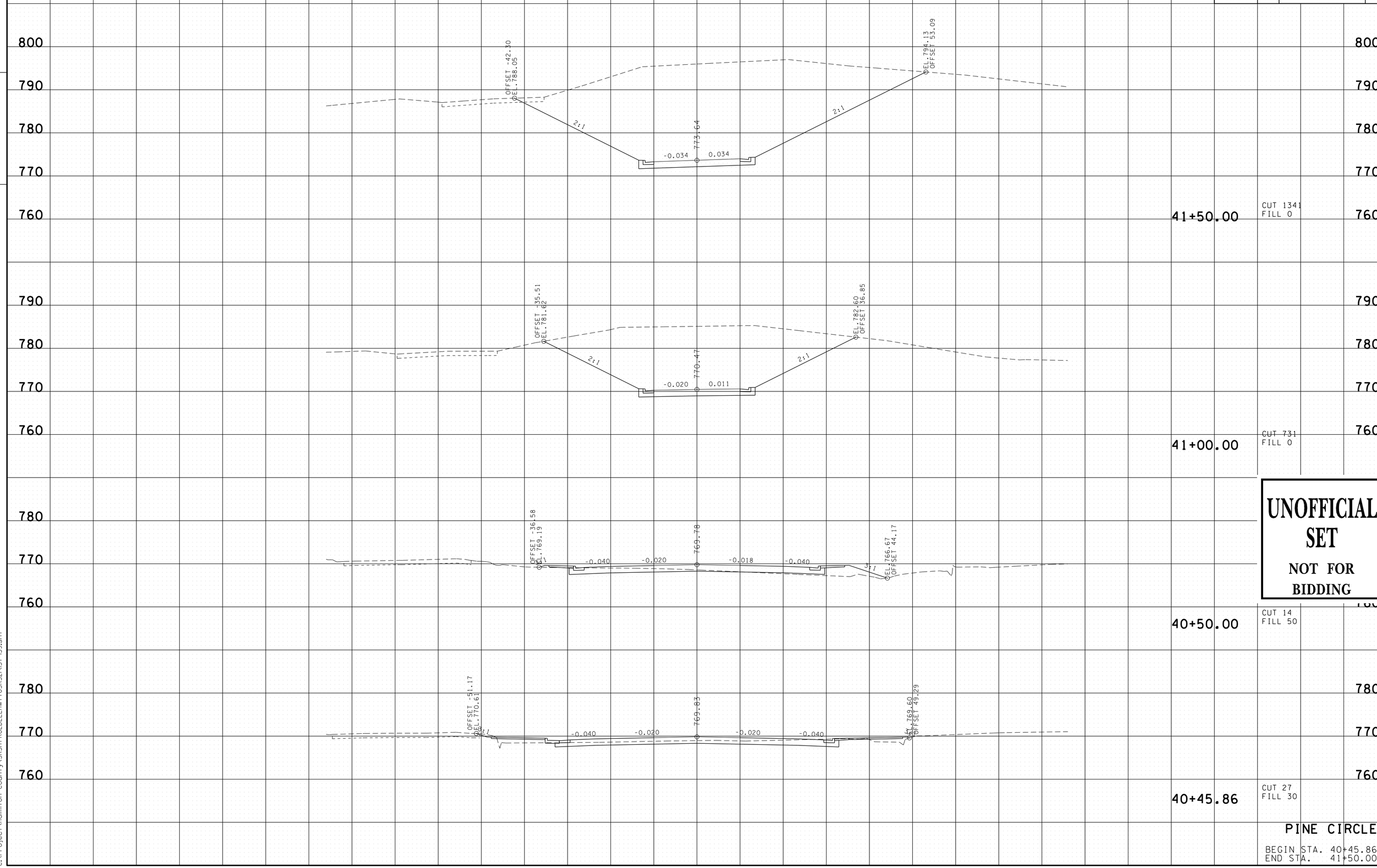
BEGIN STA. 20+50.00
END STA. 21+50.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\136.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 126 |
| CONST. | 2014 | STP/NH-317(14) | 137 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

PINE CIRCLE

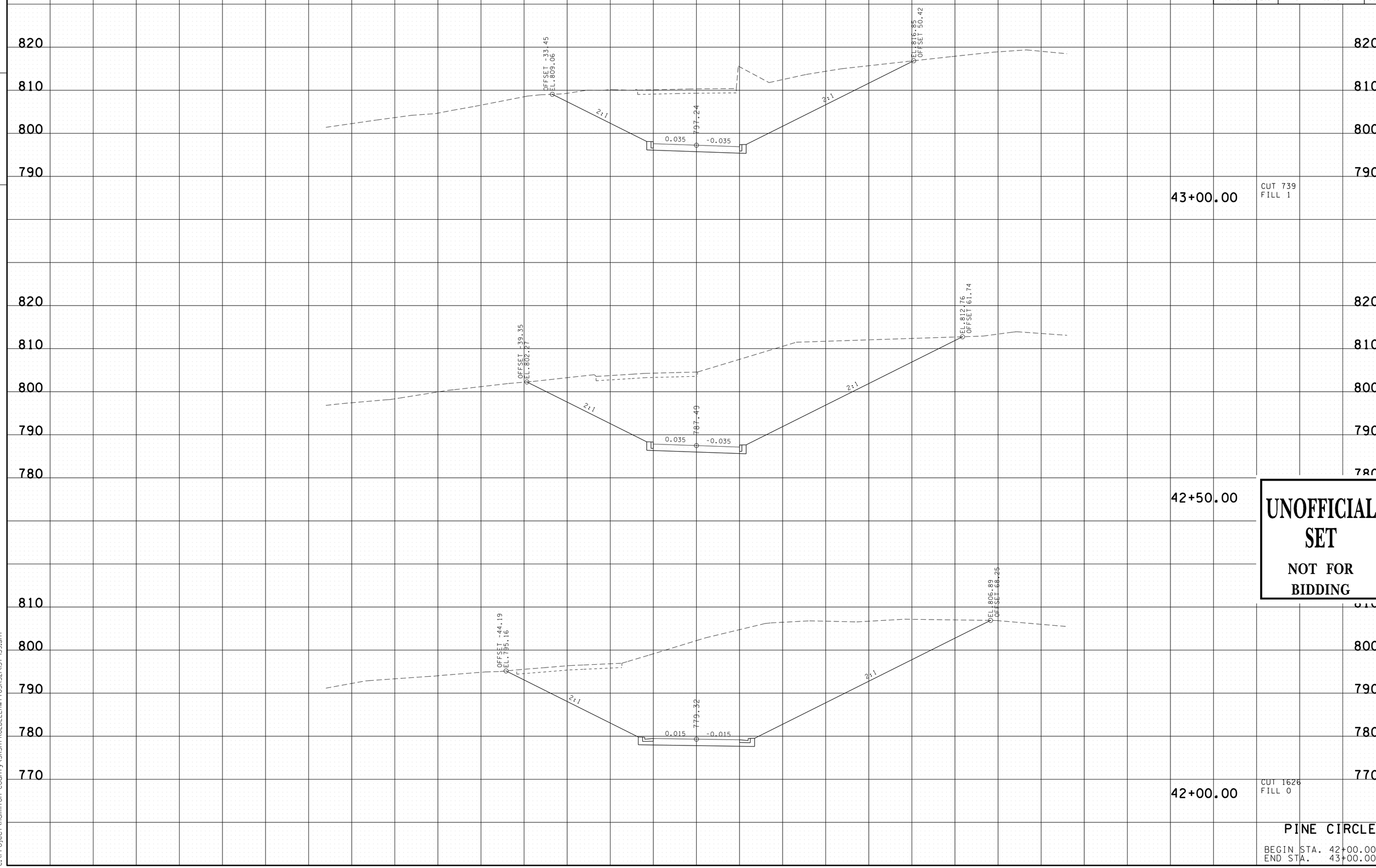
BEGIN STA. 40+45.86
END STA. 41+50.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\137-139.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 127 |
| CONST. | 2014 | STP/NH-317(14) | 138 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

PINE CIRCLE

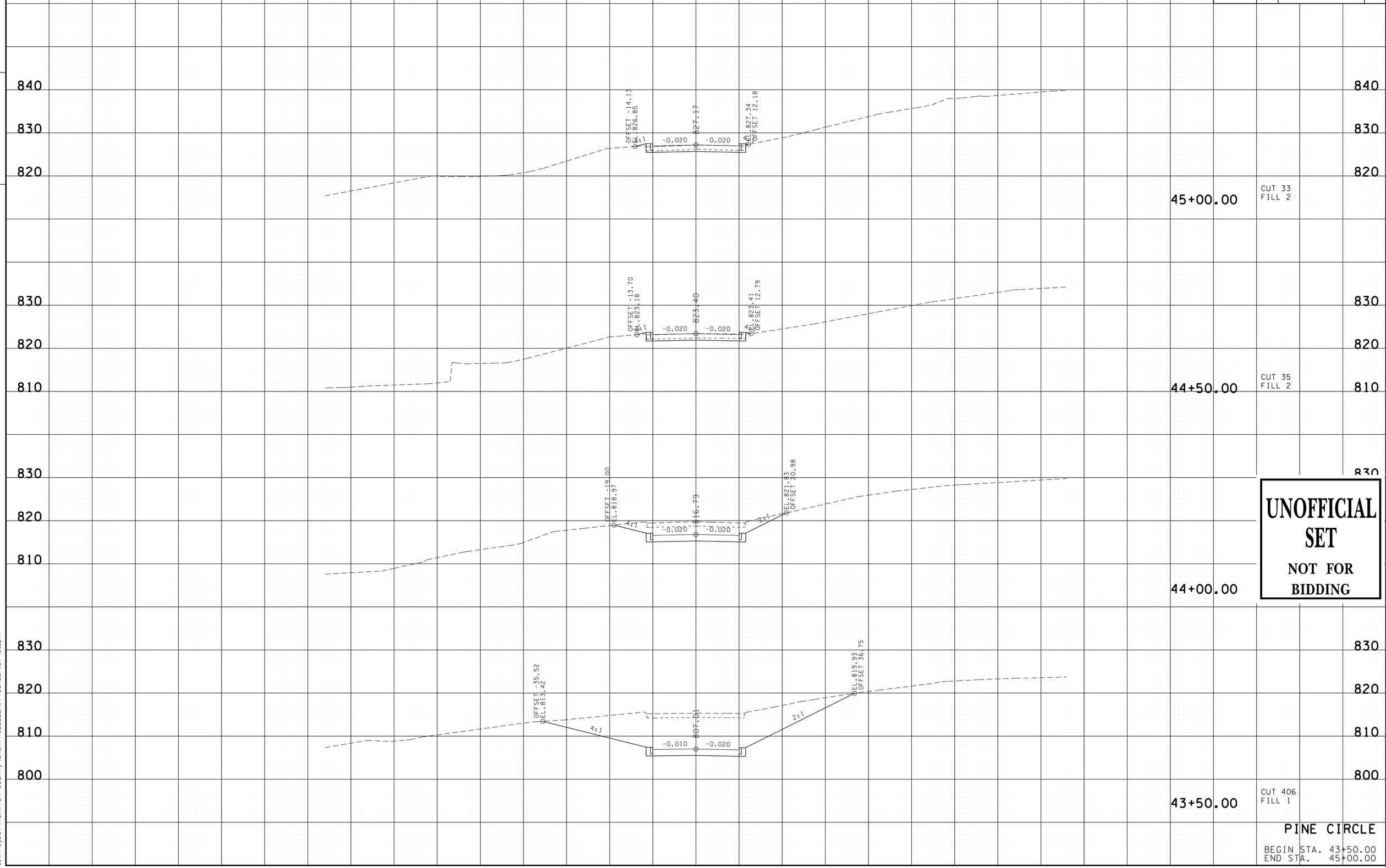
BEGIN STA. 42+00.00
END STA. 43+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\137-139.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 128 |
| CONST. | 2014 | STP/NH-317(14) | 139 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

PINE CIRCLE

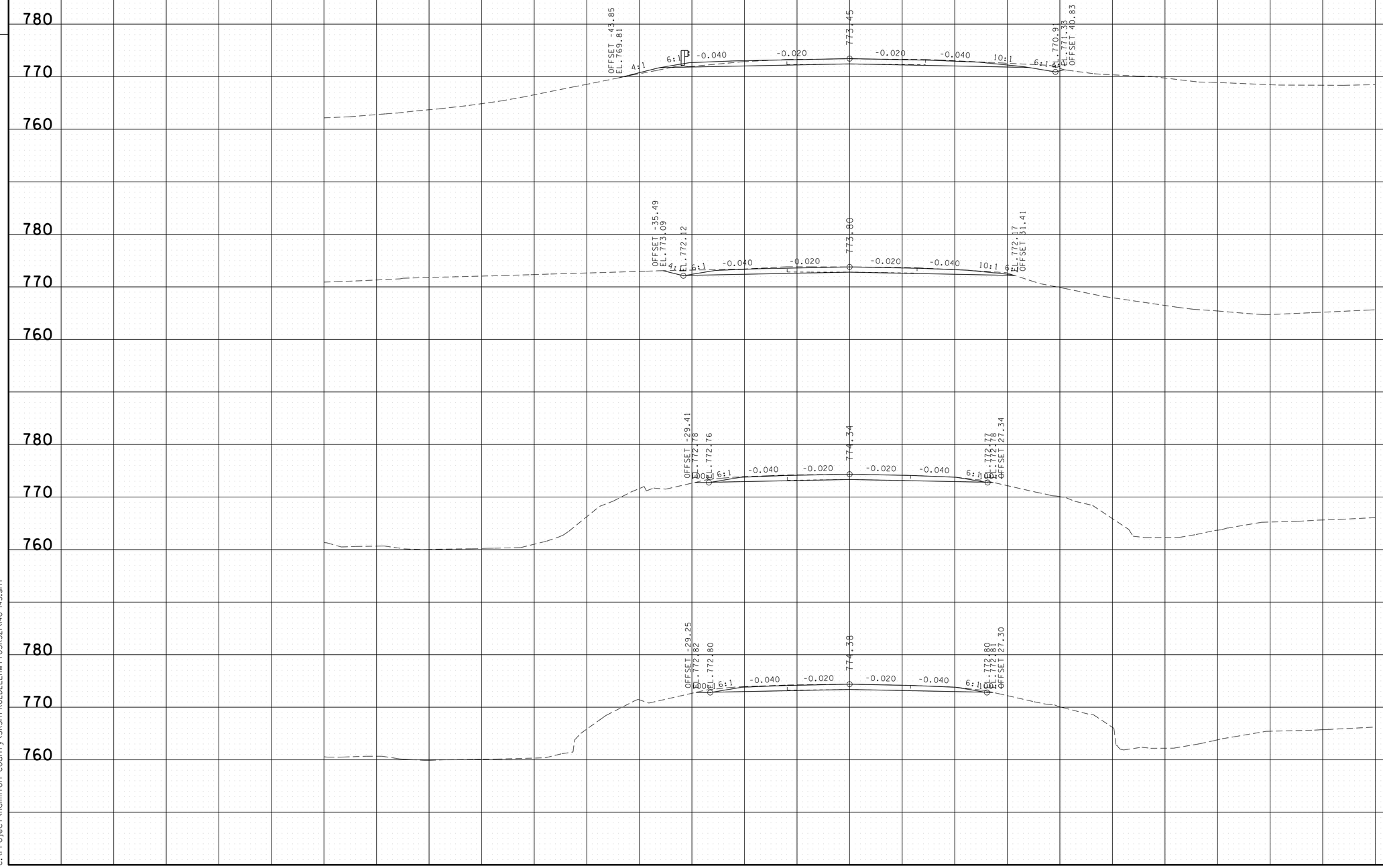
BEGIN STA. 43+50.00
END STA. 45+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\137-139.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 129 |
| CONST. | 2014 | STP/NH-317(14) | 140 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

LITTLE DEBBIE PARKWAY

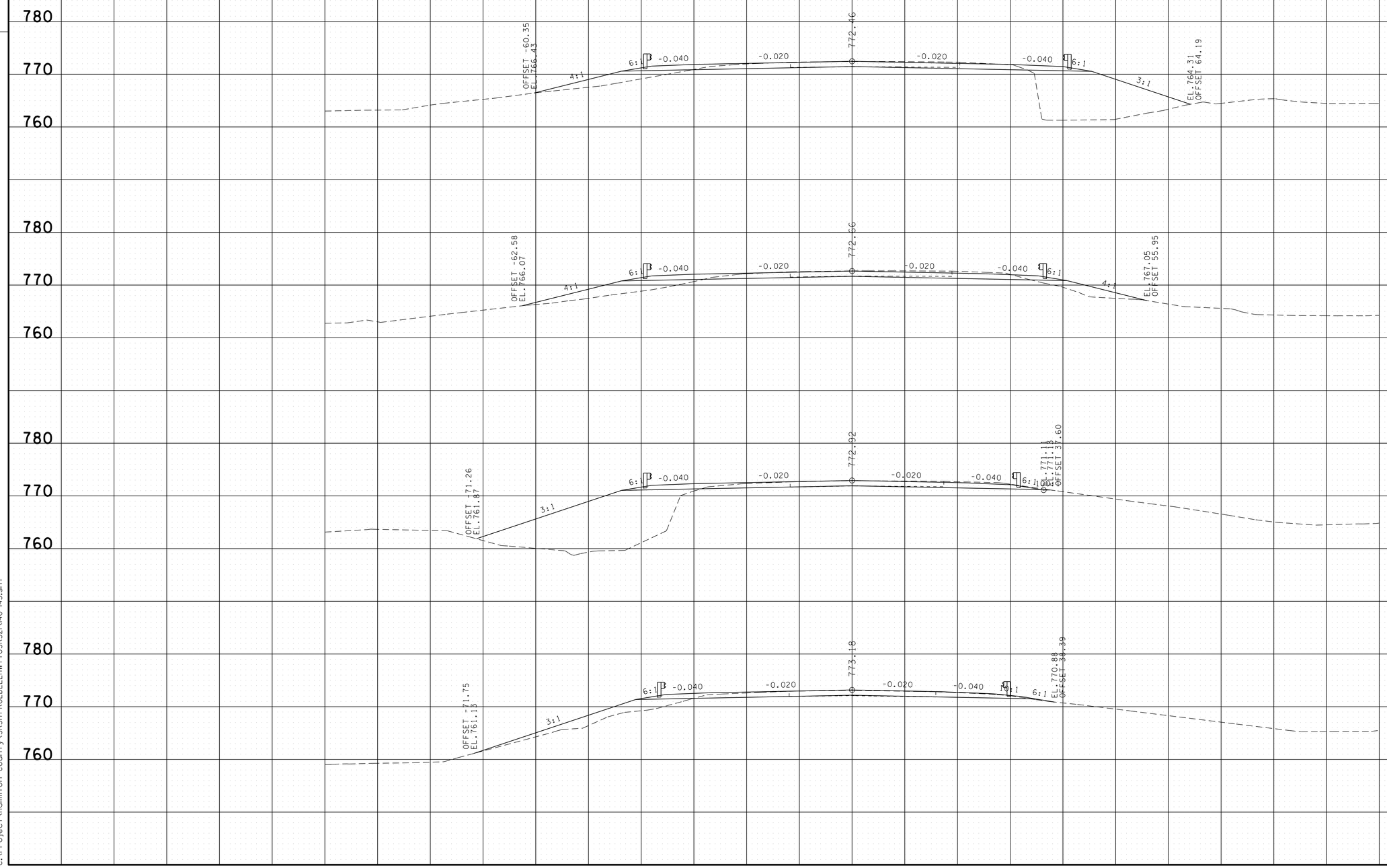
BEGIN STA. 24+47.31
END STA. 25+50.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR32\140-143.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 130 |
| CONST. | 2014 | STP/NH-317(14) | 141 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

LITTLE DEBBIE PARKWAY

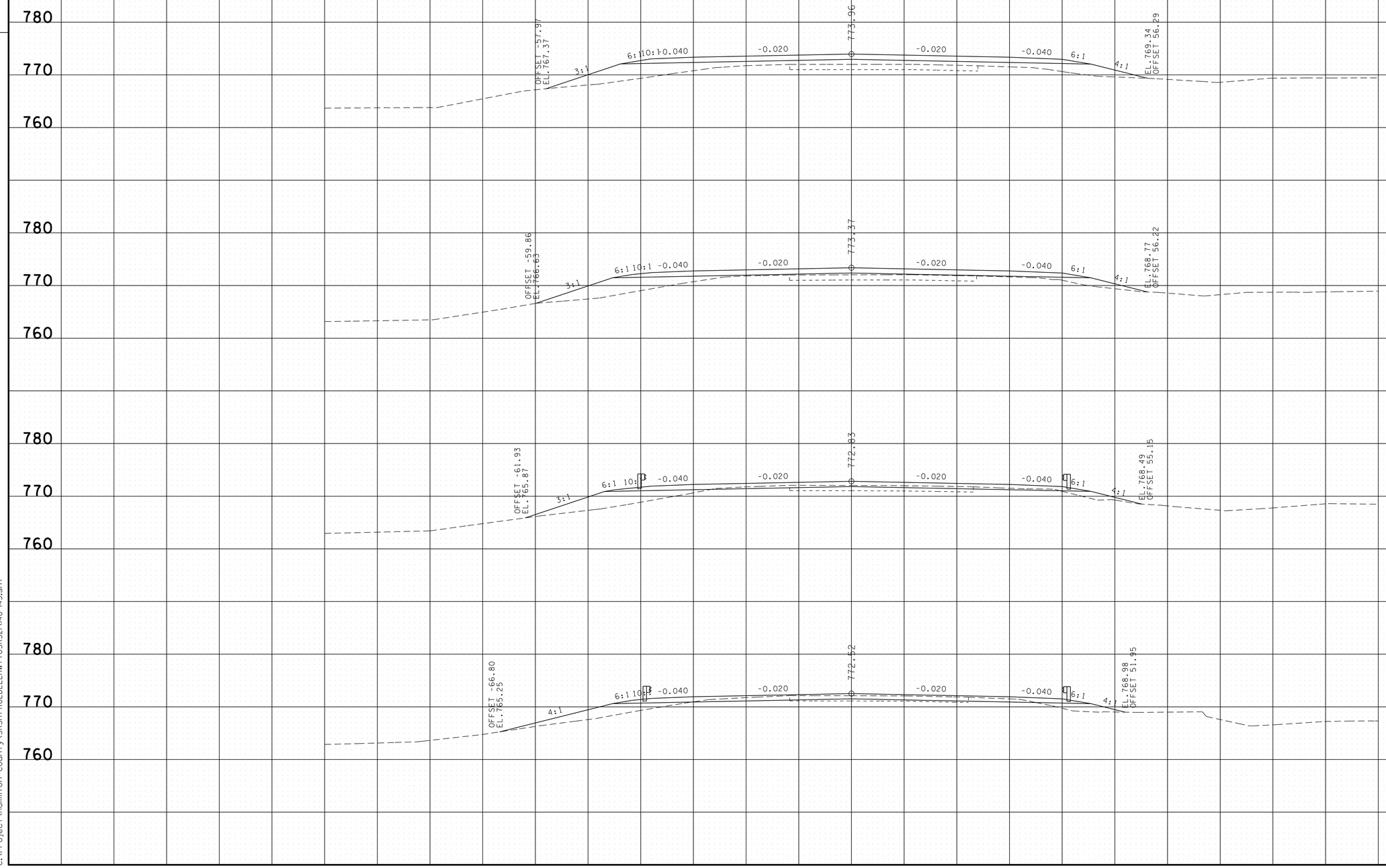
BEGIN STA. 26+00.00
END STA. 27+50.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR31TFROLDLEEHWYTOSR32\140-143.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 131 |
| CONST. | 2014 | STP/NH-317(14) | 142 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

LITTLE DEBBIE PARKWAY

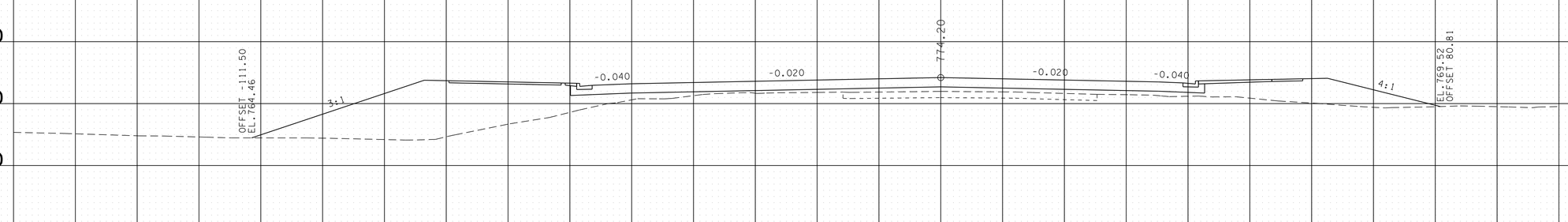
BEGIN STA. 28+00.00
END STA. 29+50.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWYTOSR321\140-143.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 132 |
| CONST. | 2014 | STP/NH-317(14) | 143 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




**UNOFFICIAL SET**

**NOT FOR BIDDING**

30+00.00

CUT 0
FILL 553

LITTLE DEBBIE PARKWAY

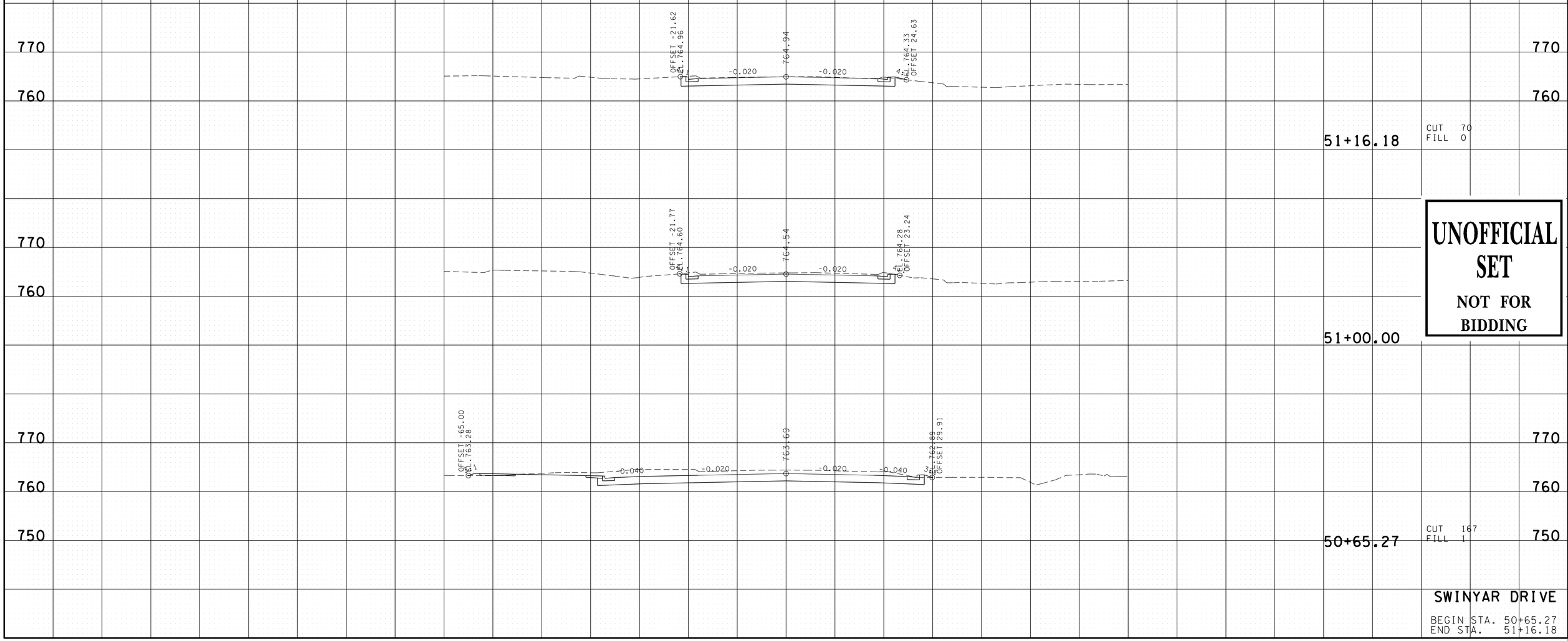
BEGIN STA. 30+00.00
END STA. 30+00.00

16-JUN-2014 08:31
C:\Project\Hamilton County\SR31TFROLDLEEHWYTOSR321\140-143.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 133 |
| CONST. | 2014 | STP/NH-317(14) | 144 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

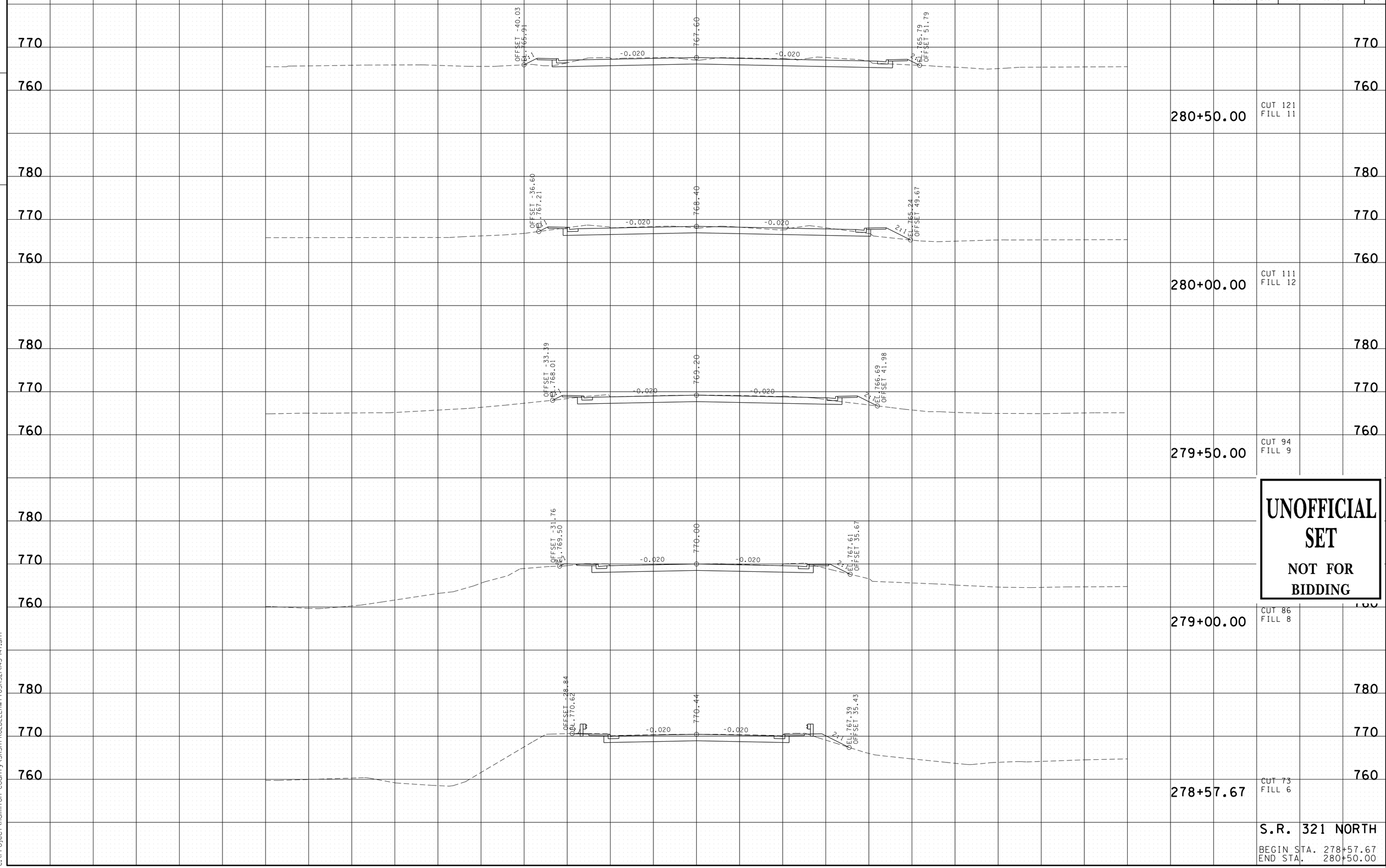
NOT FOR BIDDING

SWINYAR DRIVE

BEGIN STA. 50+65.27
END STA. 51+16.18

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY70SR321\144.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 134 |
| CONST. | 2014 | STP/NH-317(14) | 145 |




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 321 NORTH

BEGIN STA. 278+57.67
END STA. 280+50.00

FILE NO.

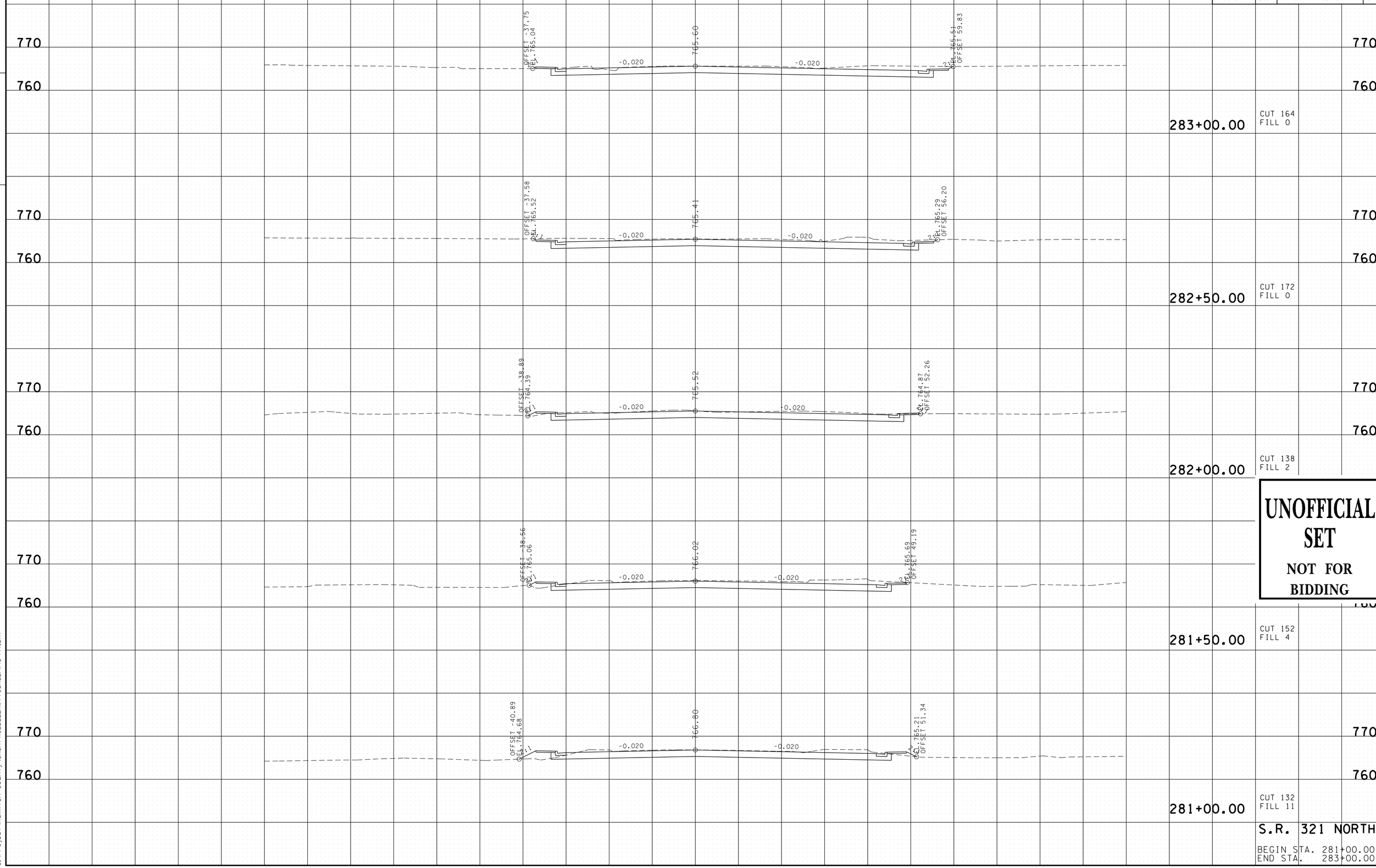
TENNESSEE D.O.T.
DESIGN DIVISION

16-JUN-2014 08:31
C:\Project\Hamilton County\SR317FROLDLEEHWY TOSR321\145-147.sht

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 135 |
| CONST. | 2014 | STP/NH-317(14) | 146 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 321 NORTH

BEGIN STA. 281+00.00
END STA. 283+00.00

16-JUN-2014 08:31
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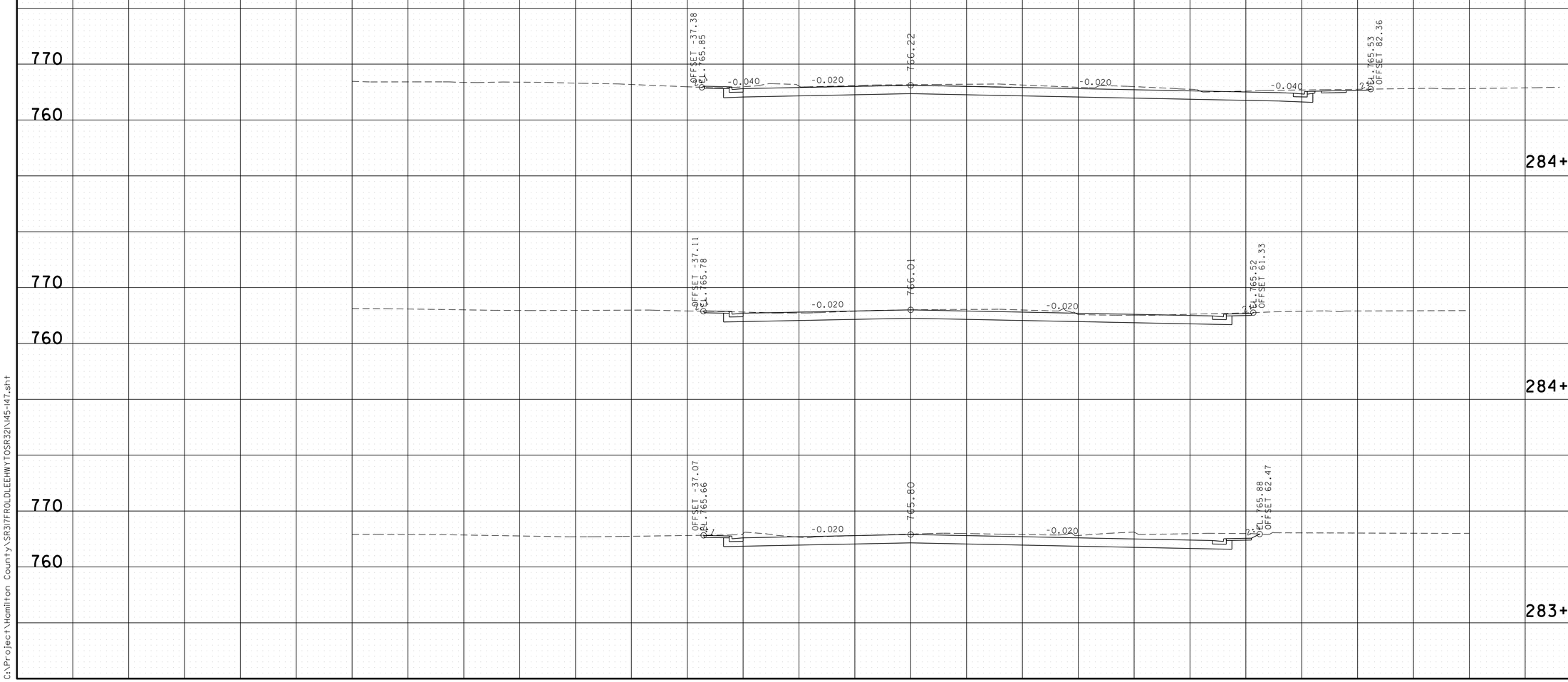
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 136 |
| CONST. | 2014 | STP/NH-317(14) | 147 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

S.R. 321 NORTH

BEGIN STA. 283+50.00
END STA. 284+50.00

16-JUN-2014 08:31
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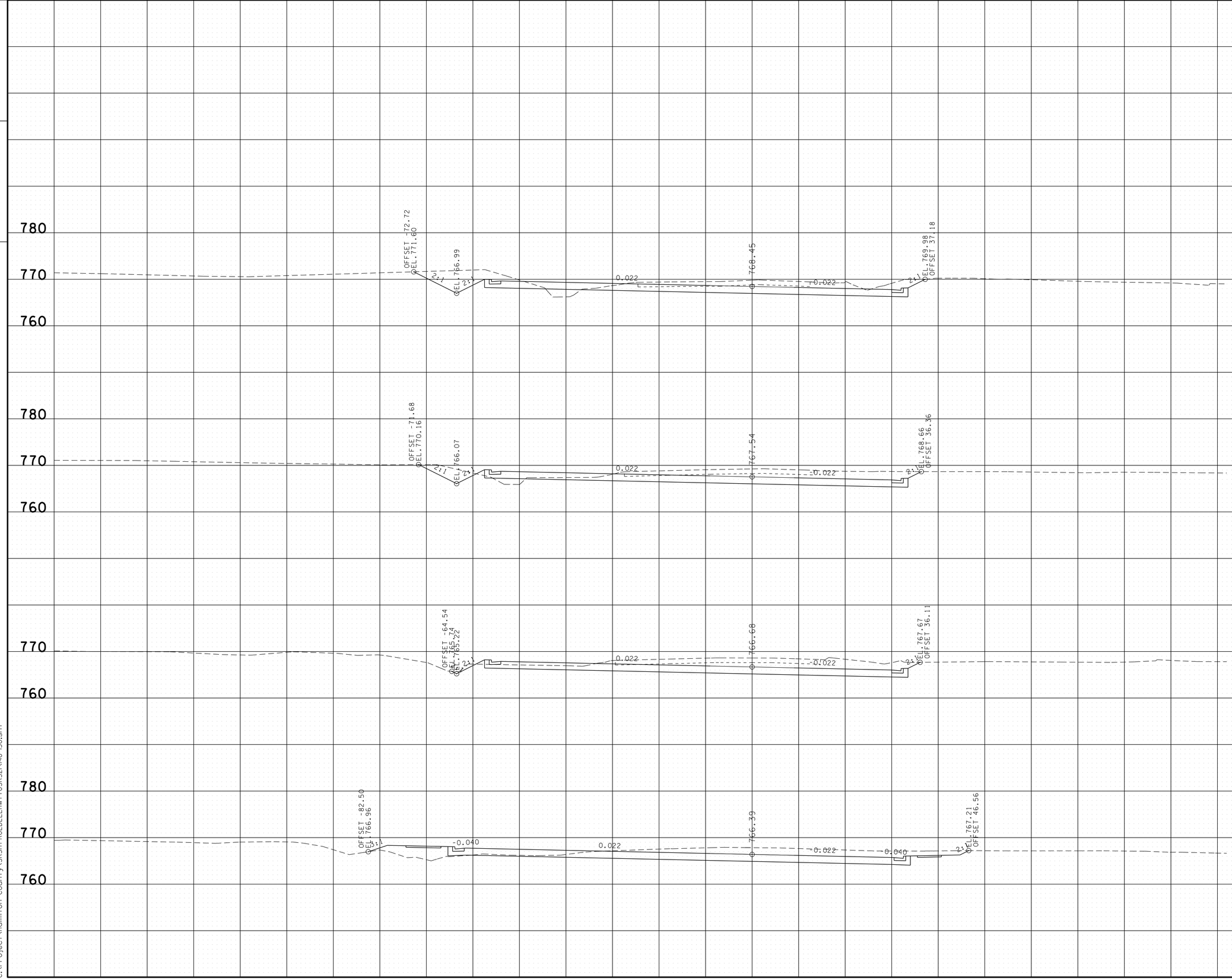
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 137 |
| CONST. | 2014 | STP/NH-317(14) | 148 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET
NOT FOR BIDDING

SR321 SOUTH

BEGIN STA. 51+00.00
END STA. 52+50.00

16-JUN-2014 08:31
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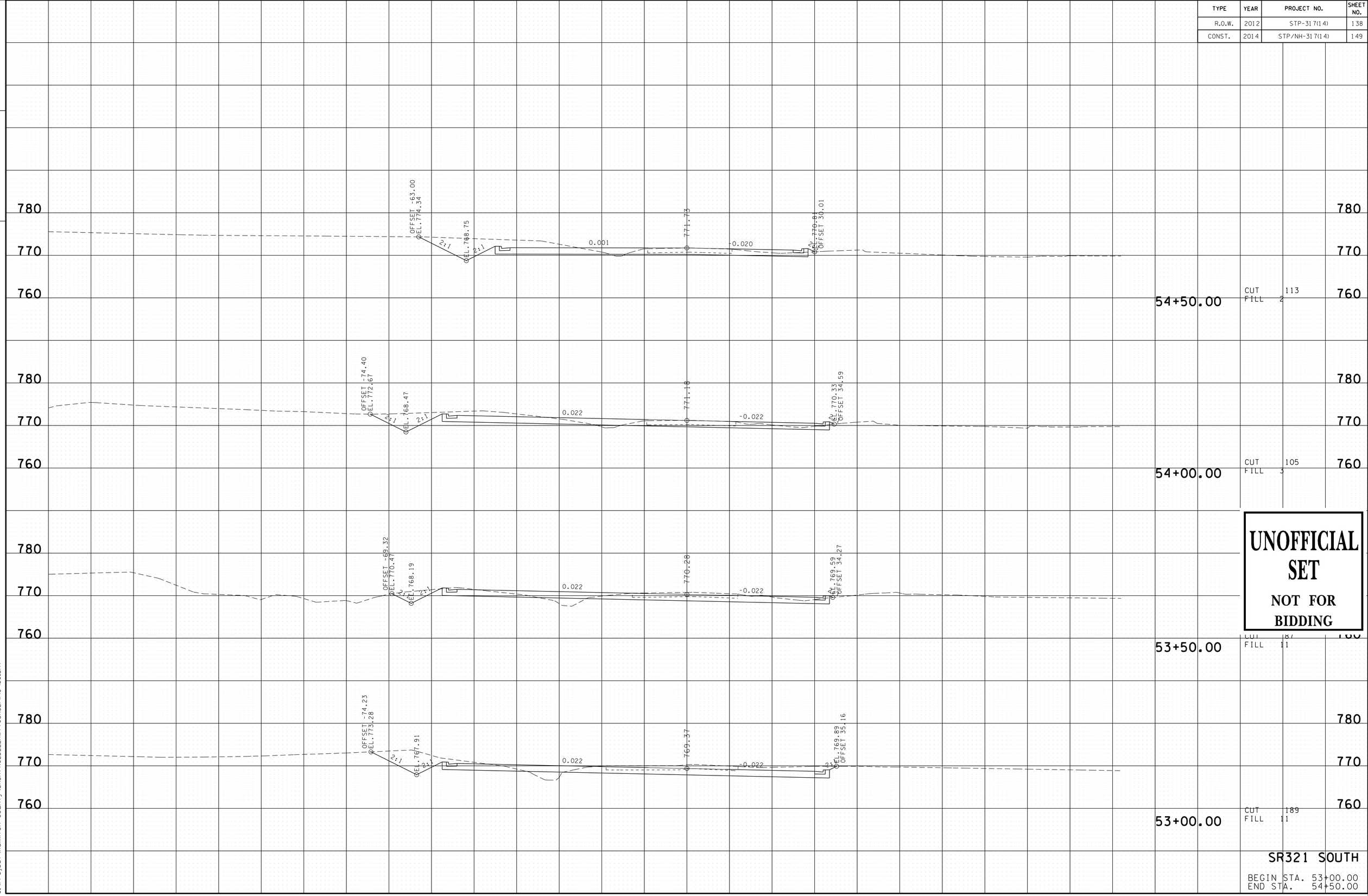
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2012 | STP-317(14) | 138 |
| CONST. | 2014 | STP/NH-317(14) | 149 |

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION




UNOFFICIAL SET

NOT FOR BIDDING

SR321 SOUTH

BEGIN STA. 53+00.00
END STA. 54+00.00

16-JUN-2014 08:31
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