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

Index Of Sheets

SEE SHEET NO. 1A FOR CONSTRUCTION INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

JEFFERSON COUNTY

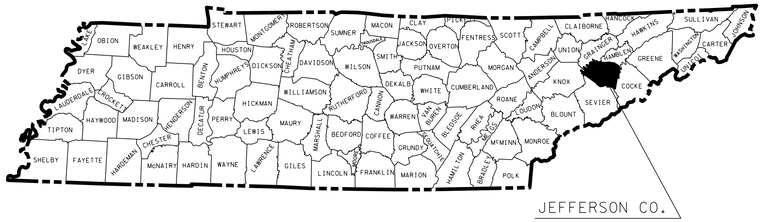
S.R. 92: BRIDGE OVER FRENCH BROAD RIVER, L.M. 9.16 IN DANDRIDGE

GRADE, DRAIN, BASE, PAVE, GUARDRAIL AND BRIDGE

STATE HIGHWAY NO. 92 F.A.H.S. NO. N/A

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	BR-STP-92(11)	
STATE PROJ. NO.	45011-3219-94	

S.R. 92 JEFFERSON CO.



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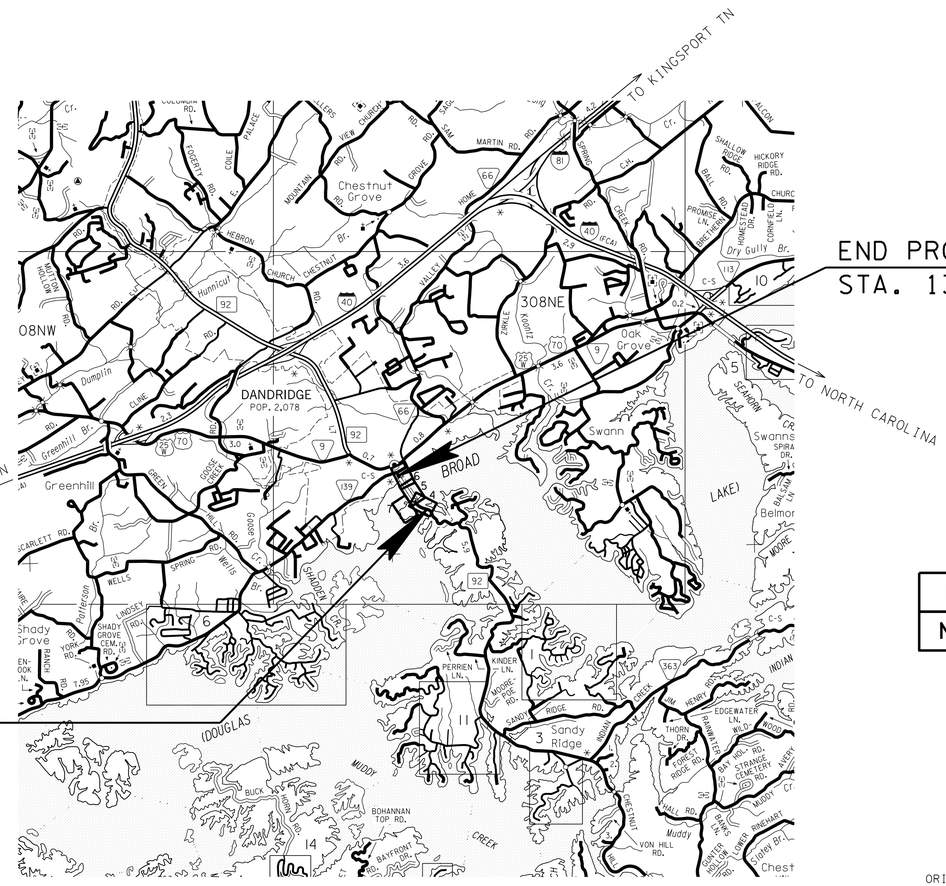

45011-3219-94
END PROJECT BR-STP-92(11)
STA. 131+05.00 (CONST.)

45011-3219-94
BEGIN PROJECT BR-STP-92(11)
STA. 101+00.00 (CONST.)

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SEALED BY

CHRISTIE DAWN BROWN
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
No. 108661
STATE OF TENNESSEE

NO EQUATIONS
NO EXCLUSIONS

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

CIVIL ENGINEERING MANAGER 1 CHRISTIE BROWN

DESIGNER STACY WEAVER CHECKED BY CHRISTIE BROWN

P.E. NO. 45011-1217-94 (DESIGN)

PIN NO. 100494.00

ROADWAY LENGTH	0.283 MILES
BRIDGE LENGTH	0.286 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.569 MILES

ORIGINAL SURVEY: JANUARY 2002
REVISED SURVEY: MARCH 2012

TRAFFIC DATA	
ADT (2015)	3242
ADT (2035)	5472
DHV (2035)	602
D	65 - 35
T (ADT)	4 %
T (DHV)	3 %
V	35-50 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	1A

S.R. 92 JEFFERSON CO.
45011-3219-94 (CONST.)

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STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
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-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
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-PB-2	01-29-14	STANDARD DETAILS FOR PLASTIC PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-9	04-25-90	CONCRETE ENDWALLS TYPE “B”
D-PE-9A	10-25-82	GENERAL DIMENSION QUANTITIES ROUND PIPE
D-PE-9C		BILL OF STEEL
D-PE-18A	01-06-15	18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-18B		18” CONCRRETE ENDWALL CROSS DRAIN
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
DRAINAGE-CATCH BASINS AND MANHOLES		
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-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 14 CATCH BASIN
D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
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-NMC-10	07-29-03	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-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-PL-3		SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GRC-1		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-2	11-03-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS
TRAFFIC CONTROL APPURTENANCES		
T-L-1	12-04-13	STANDARD LIGHTING FOUNDATION DETAILS
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-16	12-01-14	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	10-10-06	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-16	06-05-14	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS

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INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	1B

S.R. 92 JEFFERSON CO.
45011-3219-94 (CONST.)

STANDARD ROADWAY DRAWINGS (CONT.)

T-S-20	11-01-11	SIGN DETAILS
T-S-21	02-28-13	DETAILS FOR SIGNS MOUNTS ON CONCRETE MEDIAN BARRIERS
T-S-23A	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-38	08-01-12	FLOATING TURBIDITY CURTAIN
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)

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STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	1C

S.R. 92 JEFFERSON CO.
45011-3219-94 (CONST.)

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDAC001	ENVIRONMENTAL DIVISION, ARCHAELOGICAL	ON MAY 12, 2009 WE CONCURRED WITH THE ARCHAEOLOGICAL CONSULTANT'S RECOMMENDATION TO DO DEEP TESTING ON TOWN LOTS IF ALTERNATE B IS THE SELECTED ALTERNATE. THERE ARE NO ARCHAEOLOGICAL ISSUES ON THE OTHER ALTERNATES.	ENTIRE PROJECT
EDHZ001	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	ASBESTOS-CONTAINING MATERIAL - AN ASBESTOS-CONTAINING MATERIAL (ACM) SURVEY WILL BE REQUIRED ON THE EXISTING BRIDGE PRIOR TO DEMOLITION. FOR SAFETY CONCERNS, THIS SURVEY SHOULD BE SCHEDULED AFTER TRAFFIC IS ROUTED ONTO THE PROPOSED BRIDGE. PLEASE NOTIFY THE TDOT HAZARDOUS MATERIALS MANAGER, AT 615-532-8684, TO SCHEDULE THE ACM SURVEY.	ENTIRE PROJECT
EDHZ002	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS CONDUCTED ON BRIDGE NO. 45SR0920005, SR-92 BRIDGE OVER THE FRENCH BROAD RIVER, LM 9.14 (45-92-9.14) FOR PROJECT PIN 100494.00. NO ACM WAS DETECTED. NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND WASTE DISPOSAL ARE ANTICIPATED FOR THESE STRUCTURES AND THE MATERIAL CAN BE DEPOSITED IN A C&D LANDFILL. PRIOR TO THE DEMOLITION OR REHABILITATION OF ANY STRUCTURE (BRIDGE OR BUILDING), THE CONTRACTOR IS REQUIRED TO SUBMIT THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS STANDARD 10-DAY NOTICE OF DEMOLITION TO THE TDEC DIVISION OF AIR POLLUTION CONTROL (STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015) SECTIONS 107.08 D AND 202.03).	ENTIRE PROJECT

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PROJECT COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	2A

S.R. 92 JEFFERSON CO.
45011-3219-94 (CONST.)

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
①②	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	27330
⑮	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	2938
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	1335
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1640
	203-06	WATER	M.G.	75
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	121
	209-01.31	TEMPORARY MULCH FILTER BERM	C.Y.	107
	209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	478
	209-05	SEDIMENT REMOVAL	C.Y.	386
⑥	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1563
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	800
②	209-08.07	ROCK CHECK DAM	EACH	102
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	22
	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	4
	209-13.04	TURBIDITY CURTAIN	L.F.	1180
	209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	2
	209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	1
③	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	8591
②⑱	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	60
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	833
⑦	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1261
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	20
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	6
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	134
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	934
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	0.5
⑰	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	4
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	112
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	106
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	115
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	2
	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	1
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	3358
	701-02.03	CONCRETE CURB RAMP	S.F.	159
	702-01	CONCRETE CURB	C.Y.	25
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	81
⑩	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	1142
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	1
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	5
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	3
⑧	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	5
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	320
	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
②④	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	1030
	709-05.10	MACHINED RIP-RAP (GROUTED)	C.Y.	14
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	840
⑯	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	150
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	84
⑯	712-05.01	WARNING LIGHTS (TYPE A)	EACH	16
⑤	712-06	SIGNS (CONSTRUCTION)	S.F.	387
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	214
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	6040

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	1065
	713-11.05	SQUARE TUBE SIGN SUPPORT	LB.	37
	713-11.21	P POST SLIP BASE	EACH	20
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	72
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	78
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3
	713-30.09	BARRIER MOUNTED SIGN SUPPORT (FOR MOUNTING 30"X30" W2-2 (RT))	EACH	1
⑬	716-01.05	TEMPORARY RAISED PAVEMENT MARKER	EACH	75
	716-01.21	SNWPLWBLE PVMT MRKRS (BI-DIR)(1 COLOR)	EACH	15
⑭	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	55
⑲	716-04.10	PLASTIC PAVEMENT MARKING (HANDICAP SYMBOL)	EACH	2
⑨	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	2
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	2.5
	717-01	MOBILIZATION	LS	1
②⑪	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1043
⑫	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	796
②	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	2805
	801-01	SEEDING (WITH MULCH)	UNIT	9
②	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	64
	801-02	SEEDING (WITHOUT MULCH)	UNIT	119
	801-03	WATER (SEEDING & SODDING)	M.G.	24
	803-01	SODDING (NEW SOD)	S.Y.	435
	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	10564

FOOTNOTES

① INCLUDES 733 C.Y. FOR TEMPORARY BERM (0.36 C.Y./L.F.) AND 29 C.Y. FOR TEMPORARY CONSTRUCTION EXIT.

② SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

③ INCLUDES 800 TONS FOR MAINTENANCE OF TRAFFIC.

④ INCLUDES 182 TONS FOR EROSION CONTROL, 26 TONS FOR RIP-RAP PADS, 512 TONS TO BE USED AT BRIDGE ABUTMENT AS SHOWN ON SHEET NO. 5B & 6B AND 310 TONS FOR DITCHES ALONG TWRA PARKING LOT AND PARKING LOT ACCESS.

⑤ SEE SHEET NOS. 24 AND 24A FOR CONSTRUCTION SIGN LOCATIONS.

⑥ INCLUDES 201 L.F. TO BE USED WITH SEDIMENT FILTER BAGS.

⑦ INCLUDES 230 TONS FOR MAINTENANCE OF TRAFFIC.

⑧ THIS 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 MANUFACTURE'S DRAWING.

⑨ INCLUDES 1.9 L.M. FOR TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS AND 0.1 L.M. FOR SIDE ROADS.

⑩ INCLUDES THE COST OF 5 ROUNDED END ELEMENTS.

⑪ INCLUDES 210 S.Y. FOR SEDIMENT FILTER BAGS, 333 S.Y. FOR INLET PROTECTION, 500 S.Y. FOR DITCHES AND 344 FOR CONSTRUCTION ENTRANCES.

⑫ TO BE USED ON TOP OF GRADED SOLID ROCK.

⑬ MISSING RAISED PAVEMENT MARKERS SHALL BE REPLACED AT THE INSTRUCTION OF THE ENGINEER. ALL RAISED PAVEMENT MARKERS SHALL BE REMOVED BEFORE PLACEMENT OF THE FINAL PAVEMENT SURFACE. THE COST OF REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR RAISED PAVEMENT MARKERS.

⑭ THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.

⑮ REFER TO SPECIAL NOTES.

⑯ TO BE INCREASED OR DECREASED BY THE TDOT SUPERVISOR.

⑰ TO BE USED FOR CONCRETE BRIDGE RAIL FOUNDATION.

⑱ INCLUDES 35 TONS FOR SEDIMENT FILTER BAGS AND 25 TONS FOR INLET PROTECTION.

⑲ TO BE USED FOR TEMPORARY HANDICAP PARKING AS DETAILED IN THE SCOPE OF WORK.

SEE SHEET NO. 2 FOR ESTIMATED BRIDGE QUANTITIES

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DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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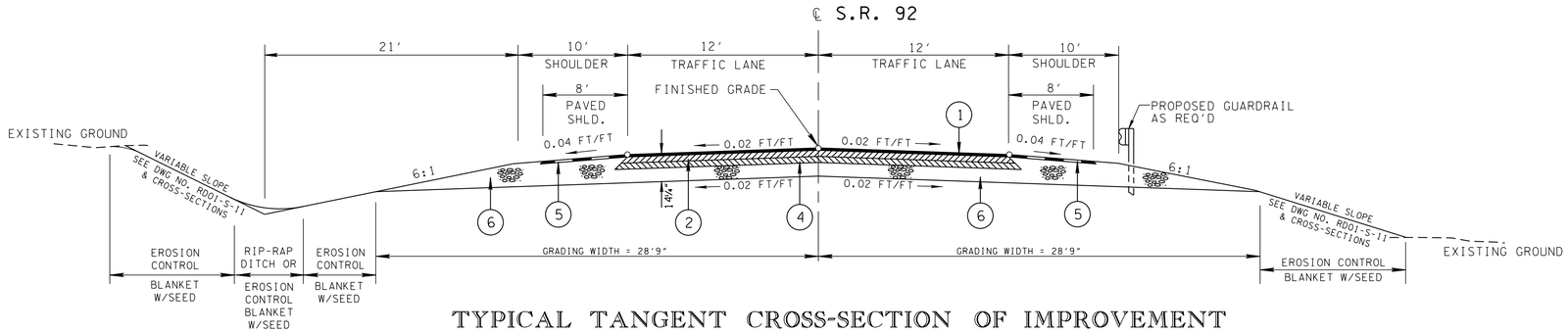
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	2
CONST.	2015	BR-STP-92(11)	2B

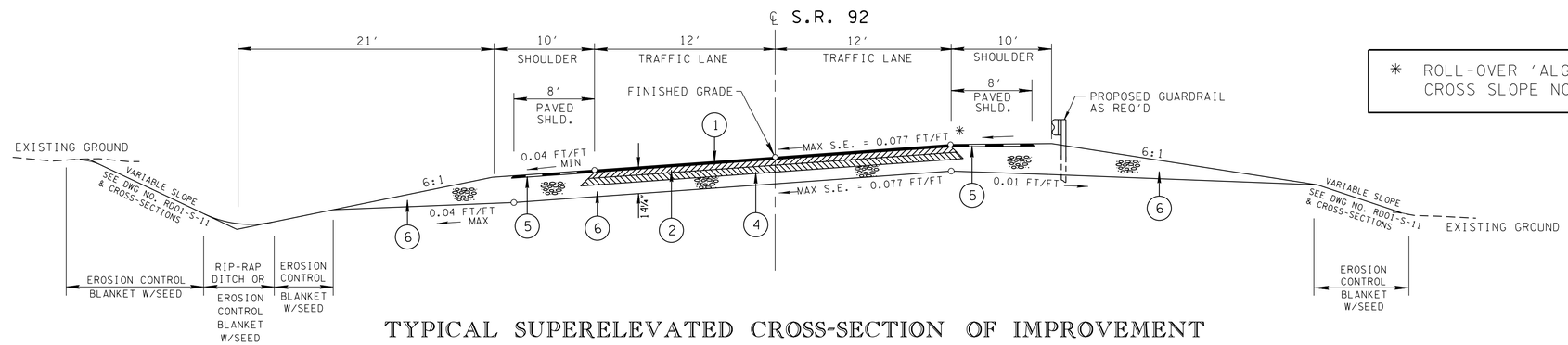
S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



TYPICAL TANGENT CROSS-SECTION OF IMPROVEMENT

(BASED ON STD DRAWING RD01-TS-3)

STA. 101+00.00 TO STA. 101+62.09
STA. 110+83.05 TO STA. 113+00.00
STA. 113+00.00 TO STA. 127+17.35 (BRIDGE)

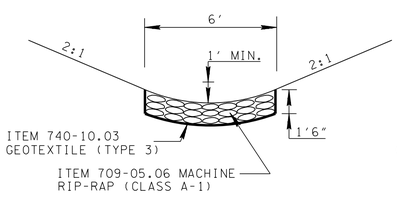


* ROLL-OVER 'ALGEBRAIC DIFFERENCE' IN RATE OF CROSS SLOPE NOT TO EXCEED 0.07.

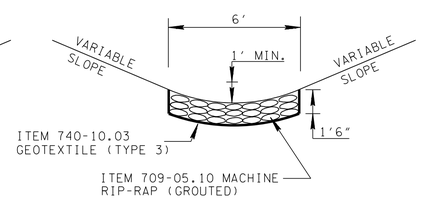
TYPICAL SUPERELEVATED CROSS-SECTION OF IMPROVEMENT

(BASED ON STD DRAWING RD01-TS-3)

STA. 101+62.09 TO STA. 110+83.05
STA. 127+17.35 TO STA. 128+10.00 (BRIDGE)



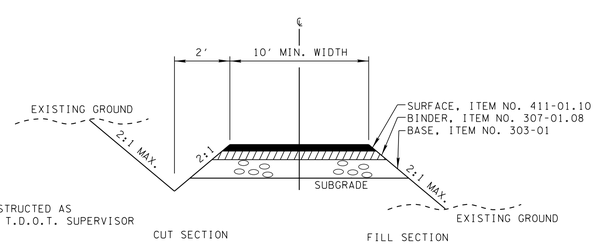
DETAIL OF RIP-RAP DITCH



DETAIL OF GROUTED RIP-RAP DITCH

NOTE: FOR GROUT, USE RUNNY CONCRETE WITH MAXIMUM AGGREGATE SIZE OF NO.8. CONCRETE IS TO BE USED TO "KEY-IN" THE RIP-RAP AND FILL THE VOIDS AND LEAVE 40%-60% OF THE STONE 6" ABOVE THE SURFACE.

FIELD OR RESIDENTIAL	BUSINESS	TWRA PARKING LOT ACCESS & PARKING LOT
SURFACE - 1½" BINDER - NONE BASE - 4"	SURFACE - 1¼" BINDER - 1¾" BASE - 4"	SURFACE - 1½" BINDER - 2" BASE - 8"



NOTE: DITCH TO BE CONSTRUCTED AS DIRECTED BY THE T.D.O.T. SUPERVISOR

NOTE: WHERE SURFACE OF EXISTING DRIVE IS CONCRETE, SUBSTITUTE 6" OF CONCRETE FOR BASE & SURFACE.

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY

PROPOSED PAVEMENT SCHEDULE

① ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 1¼" THICK (APPROX. 132.5 LBS./SQ.YD.)

411-01.10	ACS MIX (PG64-22) GRADING D
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC) (RATE 0.07 GAL./SQ.YD.)

② BITUMINOUS PLANT MIX BASE (HOT MIX) @ 2" THICK (APPROX. 226 LBS./SQ.YD.)

307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC) (RATE 0.07 GAL./SQ.YD.)

③ BITUMINOUS PLANT MIX BASE (HOT MIX) (SPOT LEVELING) (APPROX. 10 TONS REQUIRED)

307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC) (RATE 0.07 GAL./SQ.YD.)

④ BITUMINOUS PLANT MIX BASE (HOT MIX) @ 3" THICK (APPROX. 345 LBS./SQ.YD.)

307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.35 GAL./SQ.YD.)

⑤ ASPHALTIC CONCRETE SURFACE (HOT MIX) @ 1¼" THICK (APPROX. 128.8 LBS./SQ.YD.)

411-01.07	ASPHALT CONCRETE MIX (PG64-22) GRADING E (SHOULDER)
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.35 GAL./SQ.YD.)

⑥ MINERAL AGGREGATE BASE @ 8" THICK (ROADWAY) AND FULL DEPTH (SHOULDERS)

303-01	MINERAL AGGREGATE, TYPE "A" BASE, GRADING D

⑦ CONCRETE CURB (6" DETACHED TYPE "A")
ITEM 702-01
DWG. NO. RP-NMC-10

⑧ CONCRETE SIDEWALK - 4" DEPTH
ITEM 701-01.01
DWG. NO. RP-S-7

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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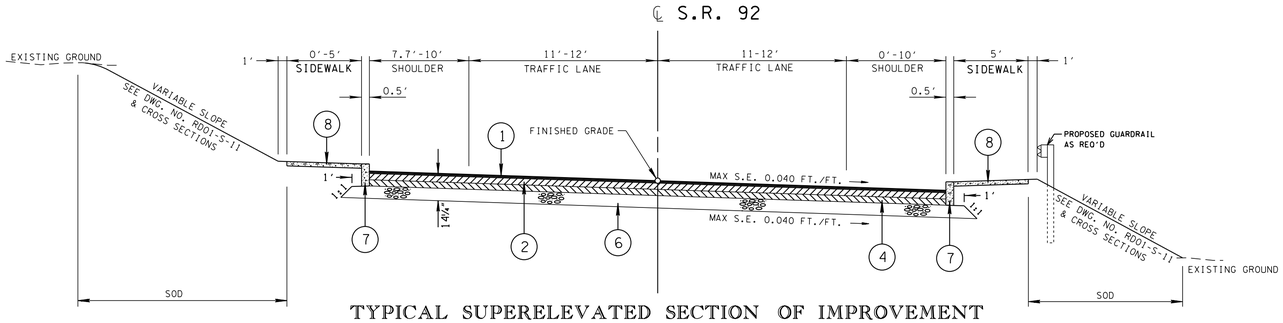
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

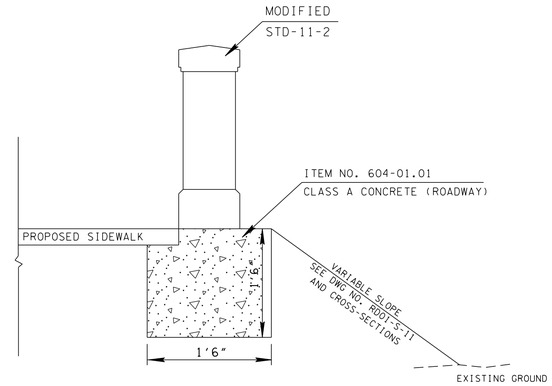
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	2A
CONST.	2015	BR-STP-92(11)	2C

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



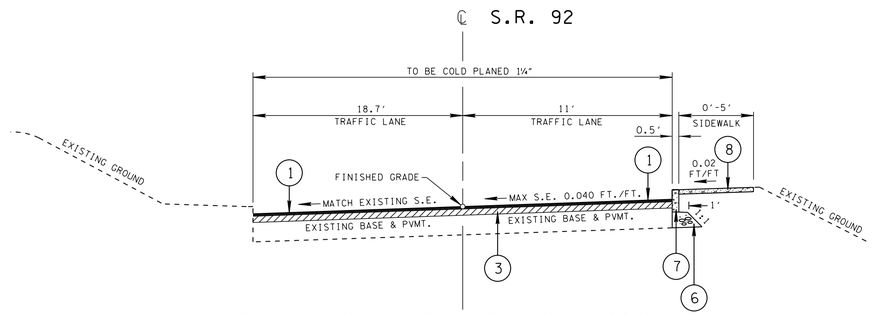
TYPICAL SUPERELEVATED SECTION OF IMPROVEMENT

(BASED ON STD DRAWING RD01-TS-6A)
STA. 128+10.00 TO STA. 130+42.58



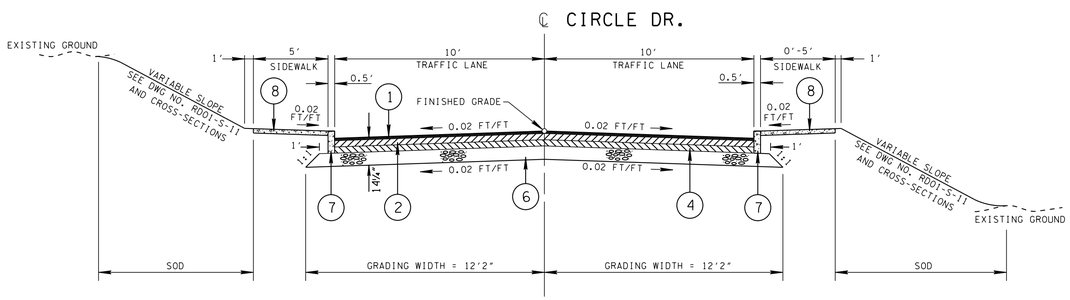
TYPICAL CONCRETE BRIDGE RAIL FOUNDATION

STA. 128+36.00 TO STA. 128+80.00



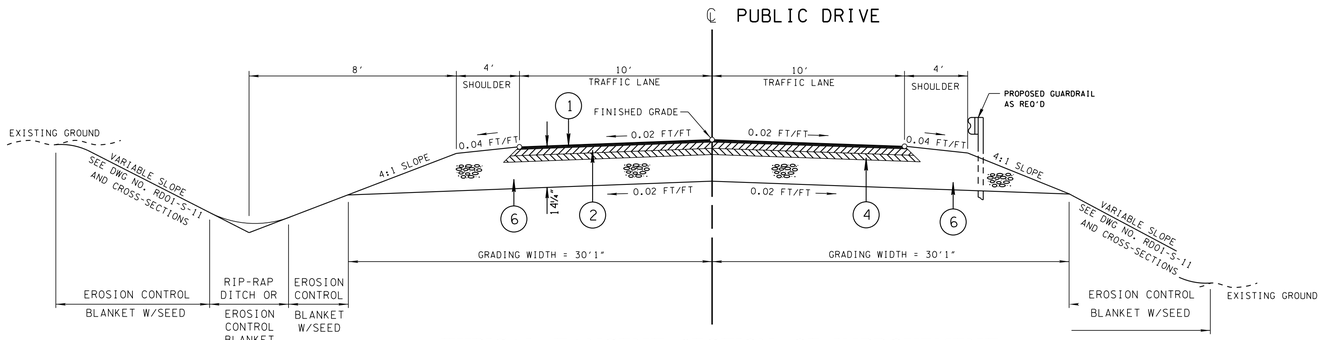
TYPICAL TANGENT SECTION OF IMPROVEMENT

(RESURFACING)
(RIGHT SIDE CURB & SIDEWALK TRANSITION)
STA. 130+42.58 TO STA. 131+05.00



TYPICAL BRIDGE CROSS-SECTION

STA. 113+00.00 TO STA. 128+10.00



TYPICAL TANGENT SECTION OF IMPROVEMENT

(BASED ON STD. DWG. RD01-TS-6A)
STA. 298+60.00 TO STA. 299+88.00

TYPICAL TANGENT SECTION OF IMPROVEMENT

(BASED ON STD. DWG. RD01-TS-1)
STA. 199+10.00 TO STA. 199+88.00

SEE SHEET 2B FOR PAVEMENT SCHEDULE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	2D

S.R. 92 JEFFERSON CO.
45011-3219-94 (CONST.)

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

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

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

(3) 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).

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.

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.

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 DURANTION 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.

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

(2) 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.

SIGNING

(1) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(2) 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.

(3) 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.

(4) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW THE GROUND LINE.

(5) 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.

(6) 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 LENGHTS AT THE SITE PRIOR TO ERECTION.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

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

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

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

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

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

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

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.

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GENERAL NOTES

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GENERAL NOTES (CONT.)

SEDIMENT CONTROL

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

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

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

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

(11) 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.

(12) 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.

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

STREAM/WETLAND

(14) 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.

(15) 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.

(16) 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.

(17) 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.

SPECIES

(18) 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

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

(20) 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.

(21) 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.

(22) 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.

(23) 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.

(24) 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.

(25) 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.

(26) 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

(27) 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

(28) 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.

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

(30) 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.

(31) 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.

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

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	2F

S.R. 92 JEFFERSON CO.
45011-3219-94 (CONST.)

GENERAL NOTES (CONT.)

(33) 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.

(34) 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.

(35) 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.

(36) 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

(37) 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.

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

SPECIAL NOTES

GRADING

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

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

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

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

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

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) THE PROPOSED TWRA PARKING LOT SHALL BE CONSTRUCTED PRIOR TO UTILIZING STAGING AREA FOR BRIDGE CONSTRUCTION.

(2) A FLAGMAN SHALL BE REQUIRED TO MAINTAIN TRAFFIC FLOW WHEN CONSTRUCTION PERSONNEL OR EQUIPMENT ARE UTILIZING PUBLIC DRIVE DURING THE DURATION OF THE PROJECT. COST OF FLAGMAN WILL BE INCLUDED IN ITEM 712-06.

(3) THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE CONSTRUCTION ACTIVITIES WITH THE TOWN OF DANDRIDGE TO EITHER LIMIT OR HALT CONSTRUCTION ACTIVITIES DURING SCHEDULED MAJOR BASS TOURNAMENTS. CONTANCT MELISSA PEAGLER (TOWN ADMINISTRATOR) 865-397-7420 FOR EVENT DETAILS.

(4) THE CONTRACTOR SHALL BE REQUIRED TO CONTACT THE TOWN OF DANDRIDGE 14 DAYS PRIOR TO THE CLOSURE OF CIRCLE DRIVE. CONTACT GREG GANN (PUBLIC WORKS DIRECTOR) 865-397-5101.

WEIGHT RESTRICTION SPECIAL NOTE

(1) WEIGHT LIMITS HAVE BEEN POSTED FOR THE BRIDGE OVER THE FRENCH BROAD RIVER (L.M. 9.16) IN JEFFERSON COUNTY. SEE BELOW. THESE RESTRICTIONS WILL BE IN EFFECT THROUGHOUT THE PROJECT AND WILL BE ENFORCED. THESE RESTRICTIONS WILL NOT BE CONSIDERED JUST CAUSE FOR ANY ADDITIONAL COMPENSATION.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 11, 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.

SCOPE OF WORK

(1) THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE AND PAVEMENT FOR S.R. 92 TO LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS AND PLAN AND PROFILES SHEETS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.

(2) CONSTRUCTION OF A TWRA PARKING LOT AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.

(3) DURING CONSTRUCTION THE CONTRACTOR IS TO PROVIDE HANDICAP PARKING FOR THE TOWN OF DANDRIDGE LIBRARY. THE PROPOSED SIDEWALK ALONG THE SOUTHWESTERN SIDE OF CIRCLE DRIVE SHALL BE CONSTRUCTED PRIOR TO THE REMOVAL OF EXISTING HANDICAP PARKING. TEMPORARY HANDICAP PARKING WILL BE PROVIDED WITHIN THE EXISTING LIBRARY PARKING LOT. THE CONTRACTOR IS TO MAINTAIN BOTH INGRESS AND EGRESS FOR HANDICAP ACCESS DURING LIBRARY BUSINESS HOURS AND THE COST TO MAINTAIN THIS ACCESS WILL BE INCLUDED IN OTHER ITEMS.

(4) CONSTRUCTION OF A STEEL GIRDER BRIDGE OVER FRENCH BROAD RIVER AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.

(5) CONSTRUCTION OF PRIVATE DRIVES TO LINES AND GRADES INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.

(6) CONSTRUCTION OF ALL DITCHES, GUARDRAIL, APPLICATION OF EROSION CONTROL DEVICES, SEEDING, PAVEMENT MARKINGS, SIGNING, INSTALLATION OF TRAFFIC CONTROL DEVICES AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. SUPERVISOR.

(7) REMOVAL OF EXISTING BRIDGE OVER FRENCH BROAD RIVER.

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GENERAL NOTES, SPECIAL NOTES, & SCOPE OF WORK

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	2G

S.R. 92 JEFFERSON CO.
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RAMP TABULATION

STATION	LOCATION LT	LOCATION RT	DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE (L.F.) FILL HEIGHT ≤ 10FT. 18″	24″	RIP-RAP 709-05.06 (TON)	REMARKS
103+68±	X		GRV. PVT. DR.	12	32			
107+90±	X		ASP. PVT. DR.	24		55		
107+90±		X	ASP. BUS. ENT.	31	74		5	
129+73±		X	CONC. BUS. ENT.	21				NO S.D. REQ'D
130+30±		X	ASP. BUS. ENT.	16				NO S.D. REQ'D
130+46±		X	ASP. BUS. ENT.	9				NO S.D. REQ'D
EXIST. PARKING LOT	X		ASP. PVT. DR.	24		60		PROP. TWRA PARKING LOT ACCESS
TOTALS					106	115	5	

PROPOSED GUARDRAIL

SHEET NO.	SIDE LT	SIDE RT	STATION FROM	STATION TO	GUARDRAIL SINGLE TYPE 2 705-02.02 (L.F.)	GUARDRAIL GUARDRAIL AT BRIDGE ENDS 705-01.01 (L.F.)	TERMINAL ANCHORS TYPE 38 705-04.07 (EACH)	TERMINAL ANCHORS TYPE 21 705-04.04 (EACH)	TERMINAL ANCHORS TYPE-IN-LINE 705-04.05 (EACH)	REMARKS
4B	×		101+00±	0+37± (PVT. DR.)	271.8				1	ROUNDED END ELEMENT
4B		×	101+00±	102+89±	142.0		1			
4B	×		0+37± (PVT. DR.)	0+60± (PVT. DR.)	443.5				2	2 ROUNDED END ELEMENTS
4B	×		0+60± (PVT. DR.)	109+09±	80.9		1		1	ROUNDED END ELEMENT
5B		×	110+84±	112+76±	118.1	26.9	1			
5B	×		199+29± (PUBLIC DR.)	112+76±	85.8	26.9			1	ROUNDED END ELEMENT
6B		×	299+30± (CIRCLE DR.)	299+77± (CIRCLE DR.)		26.9		1		
TOTALS					1142.1	80.7	3	1	5	

NOTE: GUARDRAIL LENGTHS ARE APPROXIMATE AND MAY BE ADJUSTED BY THE T.D.O.T. SUPERVISOR.

DRAINAGE STRUCTURES

CODE	SHEET NO.	STA.	LOC.	OFFSET (FT.)	CB GRATE / TOP ELEV.	STRUCTURE TYPE	DEPTH (FT.)	RIP-RAP 709-05.06 (TON)
1	6B	129+10.00	RT	19.35	1022.66	#12 CB	3.88	
2	6B	128+45.00	RT	22.00	1024.76	#14 CB	6.45	
3	6B	299+50.00	LT	10.42	1024.14	#12 CB	3.88	
4	6B	299+57.13	RT	23.16		18″ EW		10
5	6B	128+45.00	RT	43.02		18″ EW		11
TOTALS								21

DITCHES

STATION FROM	STATION TO	LOCATION LT	LOCATION RT	WIDTH (FT.)	RIP-RAP 709-05.06 (TON)	GROUTED RIP-RAP 709-05.10 (C.Y.)	GEOTEXTILE TYPE III 740-10.03 (S.Y.)	REMARKS
107+20±	107+60±	X		6		14	40	S.R. 92 SPECIAL DITCH
91+10±	93+50±	X		4	93		31	TWRA PARKING LOT
91+08±	94+00±	X		4	115		227	TWRA PARKING LOT
92+35±	92+85±		X	4	20		39	TWRA PARKING LOT
93+40±	95+50±		X	4	82		163	TWRA PARKING LOT
TOTALS					310	14	500	

STORM SEWER PIPES

SHEET NUMBER	FROM CODE	FROM INLET ELEV.	TO CODE	TO OUTLET ELEV.	% GRADE	REINF. CONCRETE PIPE CLASS III (L.F.) FILL HEIGHT ≤10 FT. 18″
6B	1	1018.78	2	1018.48	0.50	59
6B	3	1020.26	4	1020.10	0.50	32
6B	2	1018.31	5	1018.21	0.50	21
TOTALS						112

ESTIMATED GRADING QUANTITIES

STATION FROM	STATION TO	ROAD AND DRAINAGE EXCAVATION (UNCL.) COMMON (C.Y.)	BORROW COMMON (C.Y.)	BORROW GRADED SOLID ROCK (C.Y.)	EXCESS (C.Y.)	EMBANKMENT (C.Y.)	TOPSOIL (C.Y.)	REMARKS
101+00	131+05	24464	———	1602	18916	4207	1131	S.R. 92
90+50	95+53±	2104	1335	64	———	2790	509	TWRA PARKING LOT
TOTALS		26568	1335	1666	18916	6997	1640	

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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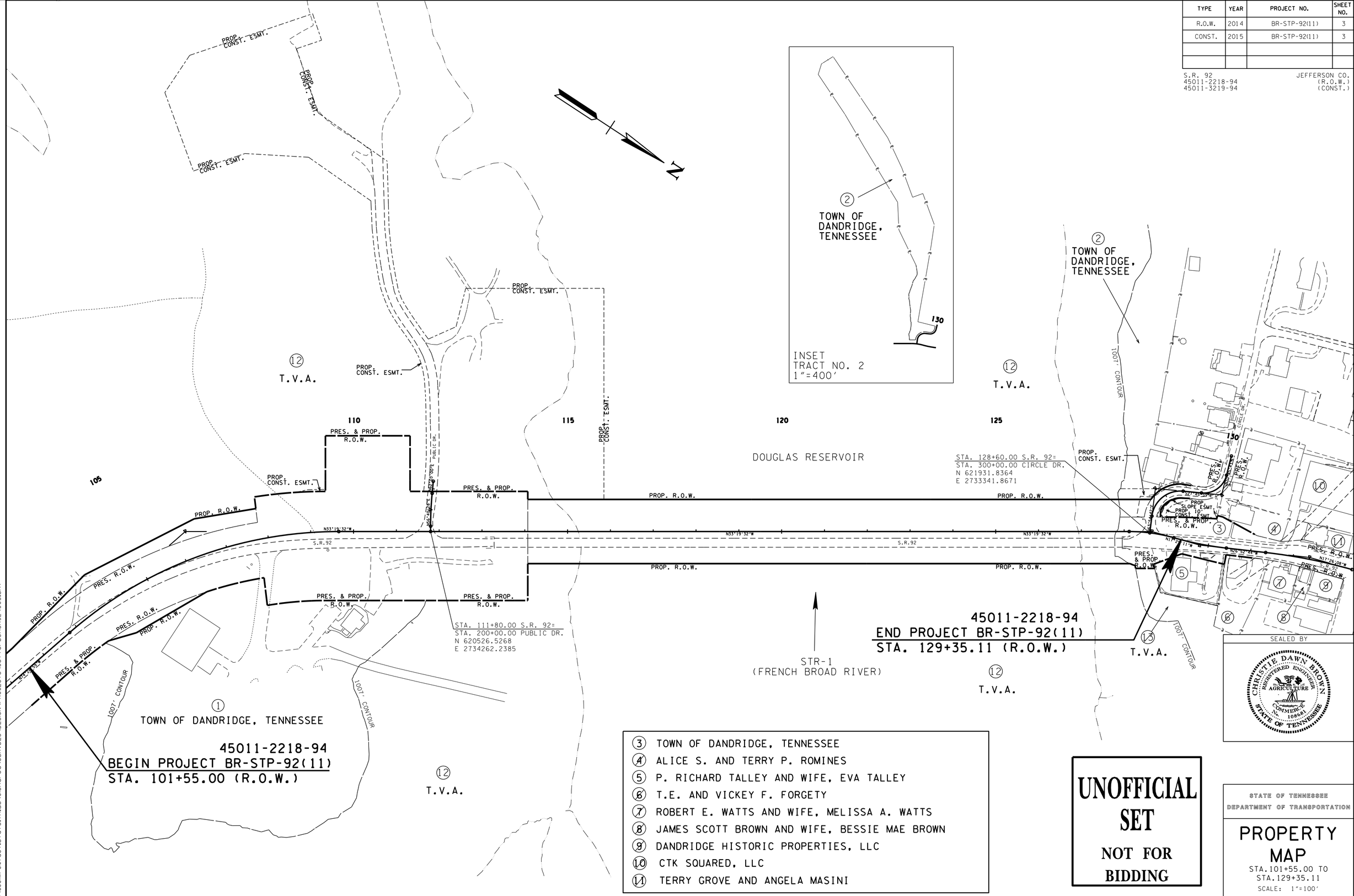
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	3
CONST.	2015	BR-STP-92(11)	3

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.101+55.00 TO STA.129+35.11

SCALE: 1"=100'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	BR-STP-92(11)	3A
CONST.	2015	BR-STP-92(11)	3A

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

RIGHT-OF- WAY NOTES

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

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

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

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

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

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

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

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

UTILITY NOTES

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

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

U T I L I T Y O W N E R S

POWER : APPALACHIAN ELECTRIC CO-OP
1109 HILL DRIVE
NEW MARKET, TN 37820
(865)475-2032
CONTACT: JOSEPH MCCARTER
EMAIL: JMcCarter@aecoop.org

GAS : JEFFERSON-COCKE COUNTY GAS UTILITY DISTRICT
122 HIGHWAY 25E
NEWPORT, TN 37821
(423)623-3069
CONTACT: DANNY BARDING
EMAIL: dannyb@jccud.com

CABLE : CHARTER COMMUNICATIONS
1774 HENRY G. LANE ST.
MARYVILLE, TN 37801
(865)273-2773
CONTACT: ANSIL SUFFRIDGE
EMAIL: ansil.suffridge@chartercom.com

WATER & SEWER : DANDRIDGE WATER DEPARTMENT
P.O. BOX 66
WHITE PINE, TN 37890
(865)674-2556
CONTACT: MIKE NORTON
EMAIL: wpwater@charter.net

TELEPHONE : AT&T
9733 PARKSIDE DR.
KNOXVILLE, TN 37922
(865)539-8579
CONTACT: VAUGHN JONES
EMAIL: vj0702@att.com

UNOFFICIAL SET

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DISTURBED AREA	
IN BETWEEN SLOPE LINES	5.790
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	1.410
TOTAL DISTURBED AREA	7.200

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS: TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE: BK.	PAGE	TOTAL AREA ACRES: LEFT	RIGHT	TOTAL	AREA TO BE ACQUIRED ACRES: LEFT	RIGHT	TOTAL	AREA REMAINING ACRES: LEFT	RIGHT	EASEMENT (SQUARE FEET): PERM. DRAINAGE	SLOPE	CONST.
1	TOWN OF DANDRIDGE, TENNESSEE	76	66	1018	360		7.510	7.510		3153 S.F.	3153 S.F.		7.438			
2	TOWN OF DANDRIDGE, TENNESSEE	68-N G	17	127	173	12.523		12.523	2725 S.F.		2725 S.F.	12.460			52	2509 ①
3	TOWN OF DANDRIDGE, TENNESSEE	68-N F	7	127	173	0.140		0.140	227 S.F.		227 S.F.	0.135			172	778 ①
4	ALICE S. AND TERRY P. ROMINES	68-N F	6	1091	478	0.790		0.790				0.790				
② 5	P. RICHARD TALLEY AND WIFE, EVA TALLEY	68-N G	2	533	447		0.330	0.330					0.330			
6	T.E. AND VICKIE F. FORGETY	68-N G	3	302	468		0.346	0.346					0.346			
7	ROBERT E. WATTS AND WIFE, MELISSA A. WATTS	68-N G	4	979	272		0.146	0.146					0.146			
8	JAMES SCOTT BROWN AND WIFE, BESSIE MAE BROWN	68-N G	5	1064	417		1790 S.F.	1790 S.F.					1790 S.F.			
9	DANDRIDGE HISTORIC PROPERTIES, LLC	68-N G	6	620	684		4105 S.F.	4105 S.F.					4105 S.F.			
10	CTK SQUARED, LLC	68-N F	4	876	82	0.656		0.656				0.656				
11	TERRY GROVE AND ANGELA MASINI	68-N F	5	407	675		0.124	0.124					0.124			
12	T.V.A.	——— NOT RECORDED ———							2.734	2.369	5.103					7.282 AC ③
13	T.V.A.	——— NOT RECORDED ———														

① FOR WORKING ROOM & EPSC.
② FOR DAMAGES ONLY.
③ FOR STAGING AREA AND CONSTRUCTION OF TWRA PARKING LOT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. ACQUISITION TABLE, R.O.W. NOTES, AND UTILITY NOTES

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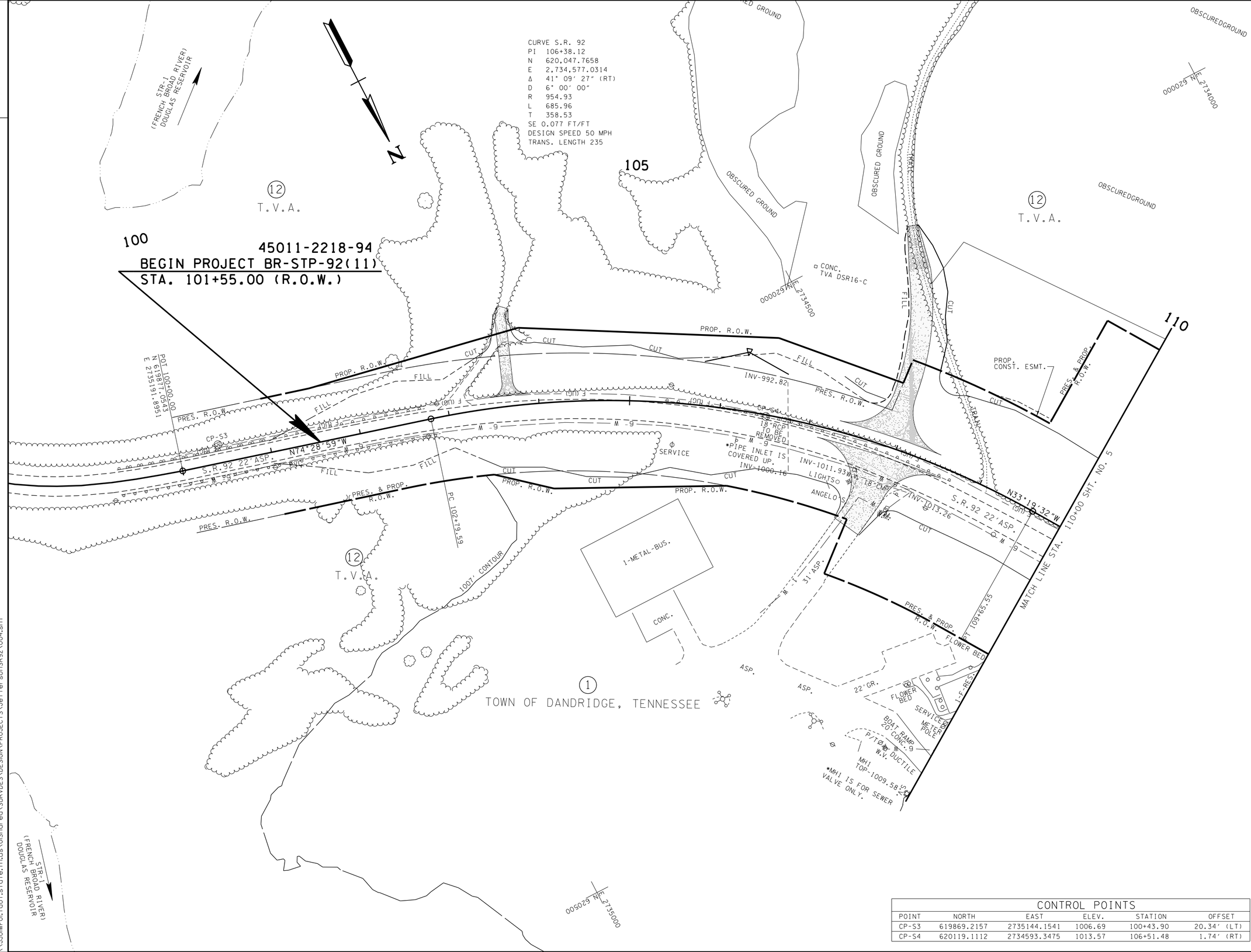
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	4
CONST.	2015	BR-STP-92(11)	4

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
CP-S3	619869.2157	2735144.1541	1006.69	100+43.90	20.34' (LT)
CP-S4	620119.1112	2734593.3475	1013.57	106+51.48	1.74' (RT)

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COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.101+55 TO STA.110+00

SCALE: 1"=50'

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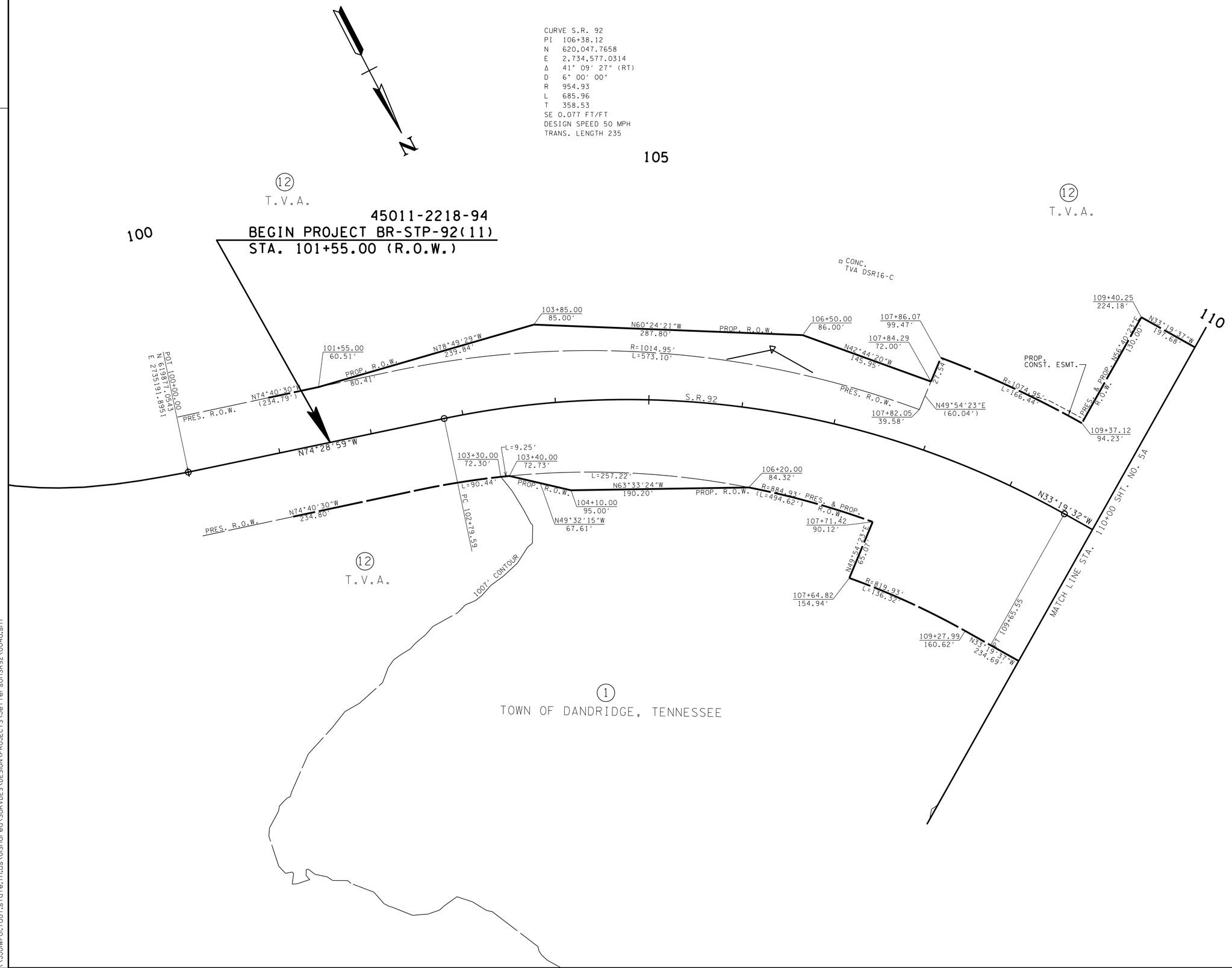
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	4A
CONST.	2015	BR-STP-92(11)	4A

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

CURVE S.R. 92
PI 106+38.12
N 620,047.7658
E 2,734,577.0314
Δ 41° 09′ 27″ (RT)
D 6° 00′ 00″
R 954.93
L 685.96
T 358.53
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
R.O.W.

STA.101+55 TO STA.110+00

SCALE: 1″=50′

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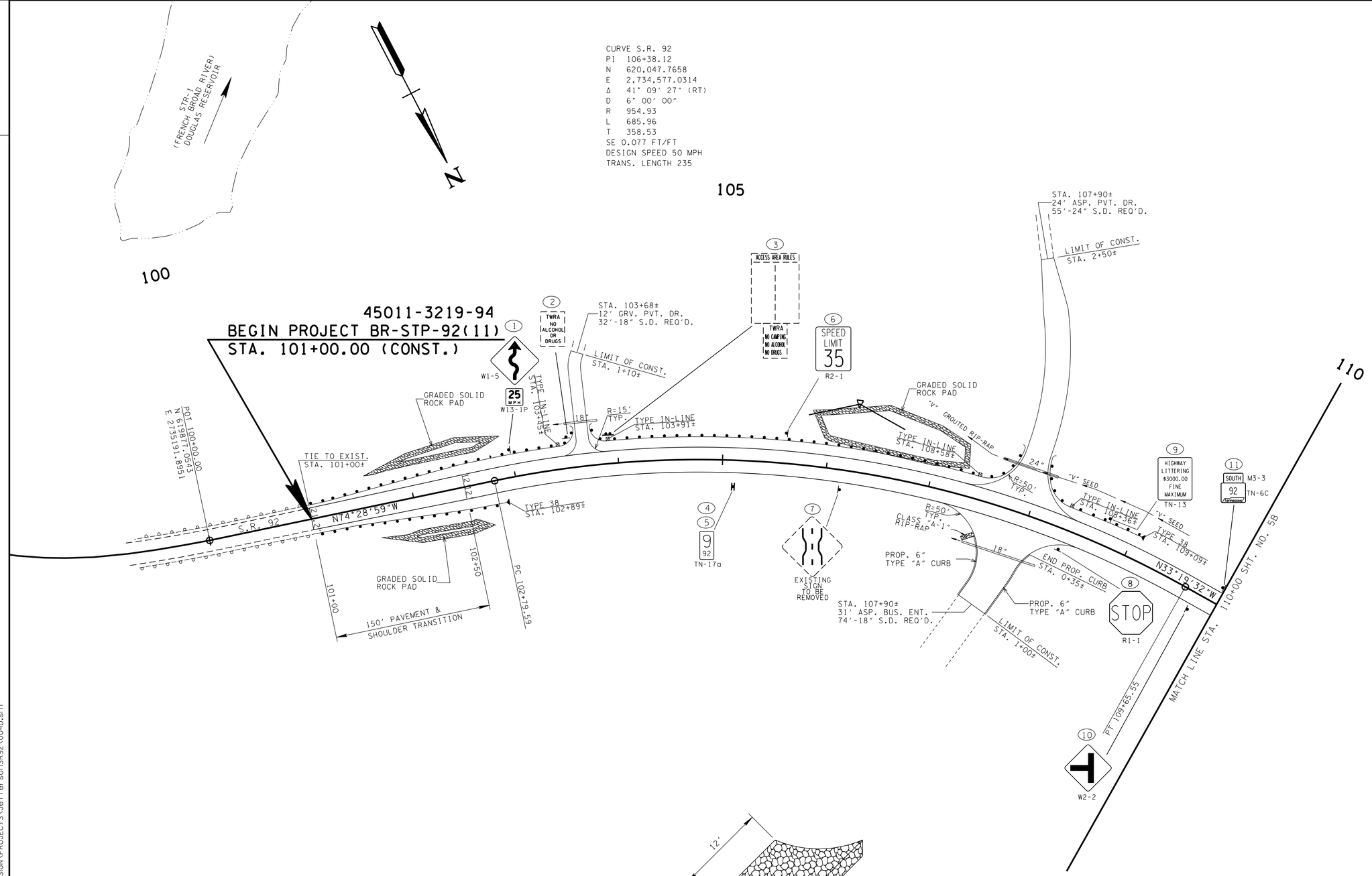
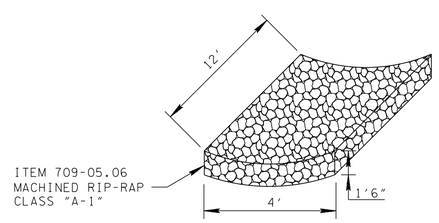
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	4B
CONST.	2015	BR-STP-92(11)	4B

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

CURVE S.R. 92
PI 106+38.12
N 620,047.7658
E 2,734,577.0314
Δ 41° 09′ 27″ (RT)
D 6° 00′ 00″
R 954.93
L 685.96
T 358.53
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235





DETAIL OF RIP-RAP PAD
AT END OF CURB

TO BE USED AT BUS. ENT. STA. 107+90± (RT)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.101+00 TO STA.110+00

SCALE: 1"=50′

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

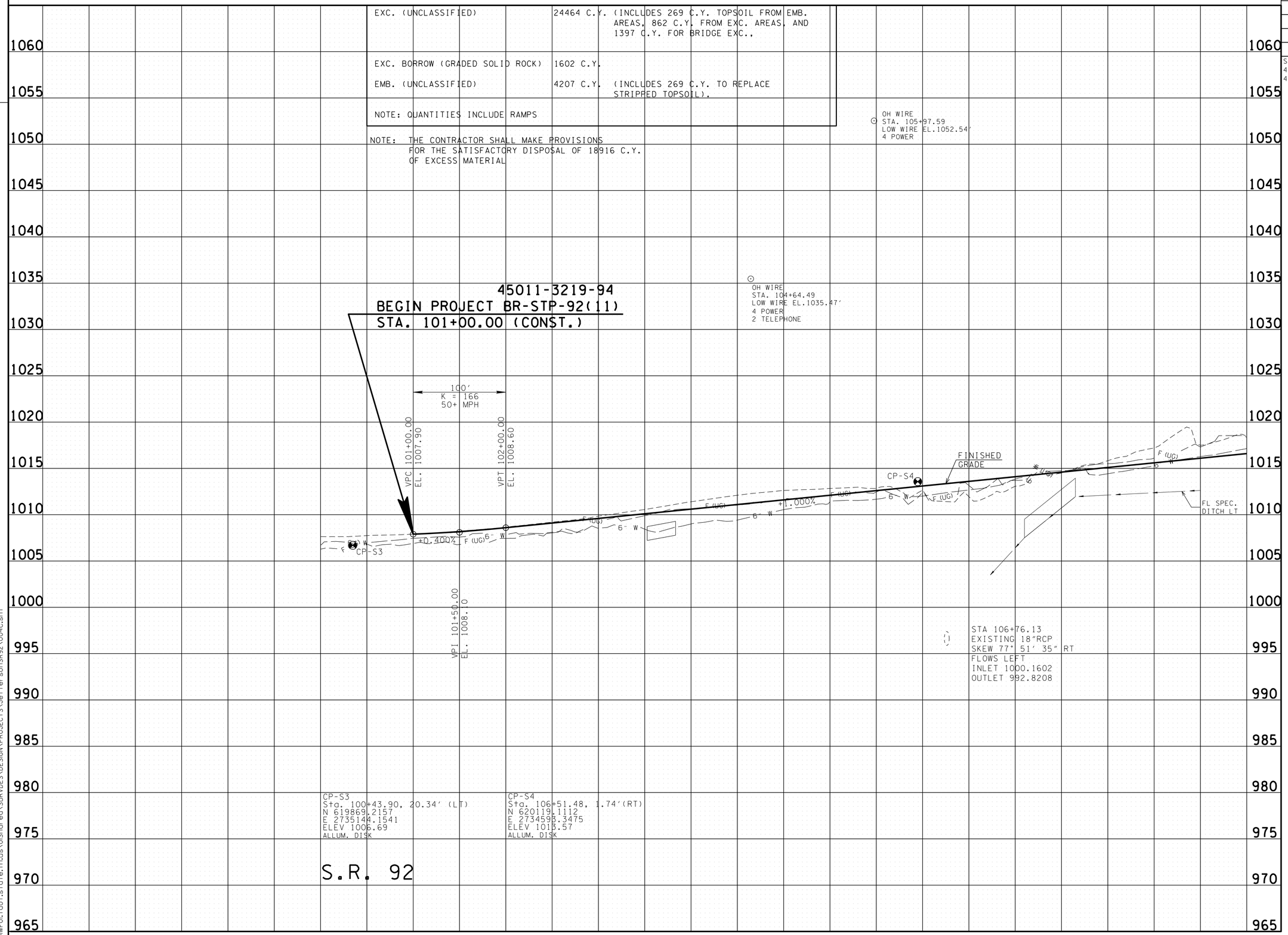
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	4C
CONST.	2015	BR-STP-92(11)	4C

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

EXC. (UNCLASSIFIED)	24464 C.Y.	(INCLUDES 269 C.Y. TOPSOIL FROM EMB. AREAS, 862 C.Y. FROM EXC. AREAS, AND 1397 C.Y. FOR BRIDGE EXC.,)
EXC. BORROW (GRADED SOLID ROCK)	1602 C.Y.	
EMB. (UNCLASSIFIED)	4207 C.Y.	(INCLUDES 269 C.Y. TO REPLACE STRIPPED TOPSOIL).

NOTE: QUANTITIES INCLUDE RAMPS

NOTE: THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF 18916 C.Y. OF EXCESS MATERIAL



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.101+00 TO STA.110+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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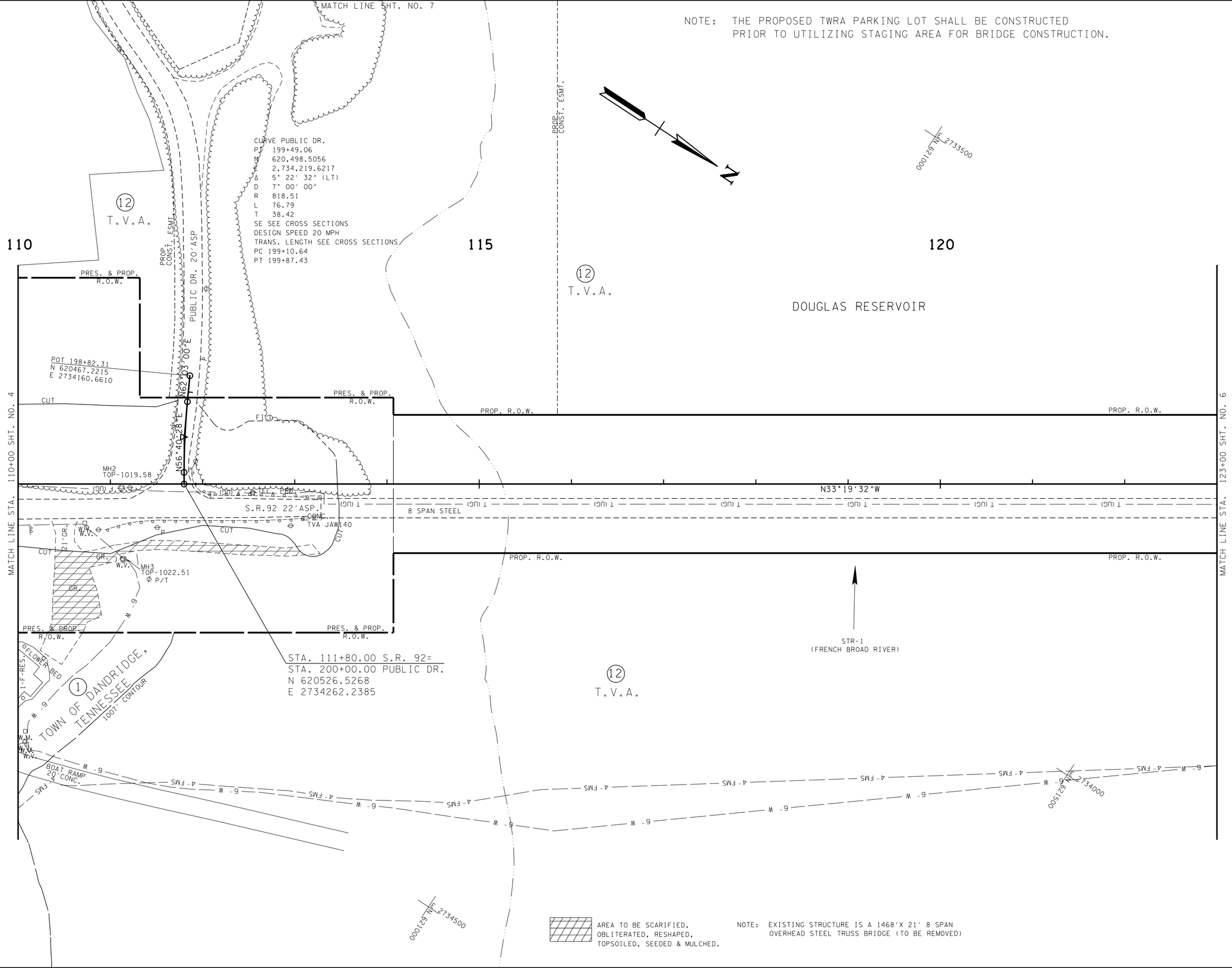
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	5
CONST.	2015	BR-STP-92(11)	5

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

NOTE: THE PROPOSED TWRA PARKING LOT SHALL BE CONSTRUCTED PRIOR TO UTILIZING STAGING AREA FOR BRIDGE CONSTRUCTION.



AREA TO BE SCARIFIED, OBLITERATED, RESHAPED, TOPSOILED, SEEDED & MULCHED.

NOTE: EXISTING STRUCTURE IS A 1468′X 21′ 8 SPAN OVERHEAD STEEL TRUSS BRIDGE (TO BE REMOVED)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

CHRISTIE DAWN BROWN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 108681
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.110+00 TO STA.123+00

SCALE: 1"=50'

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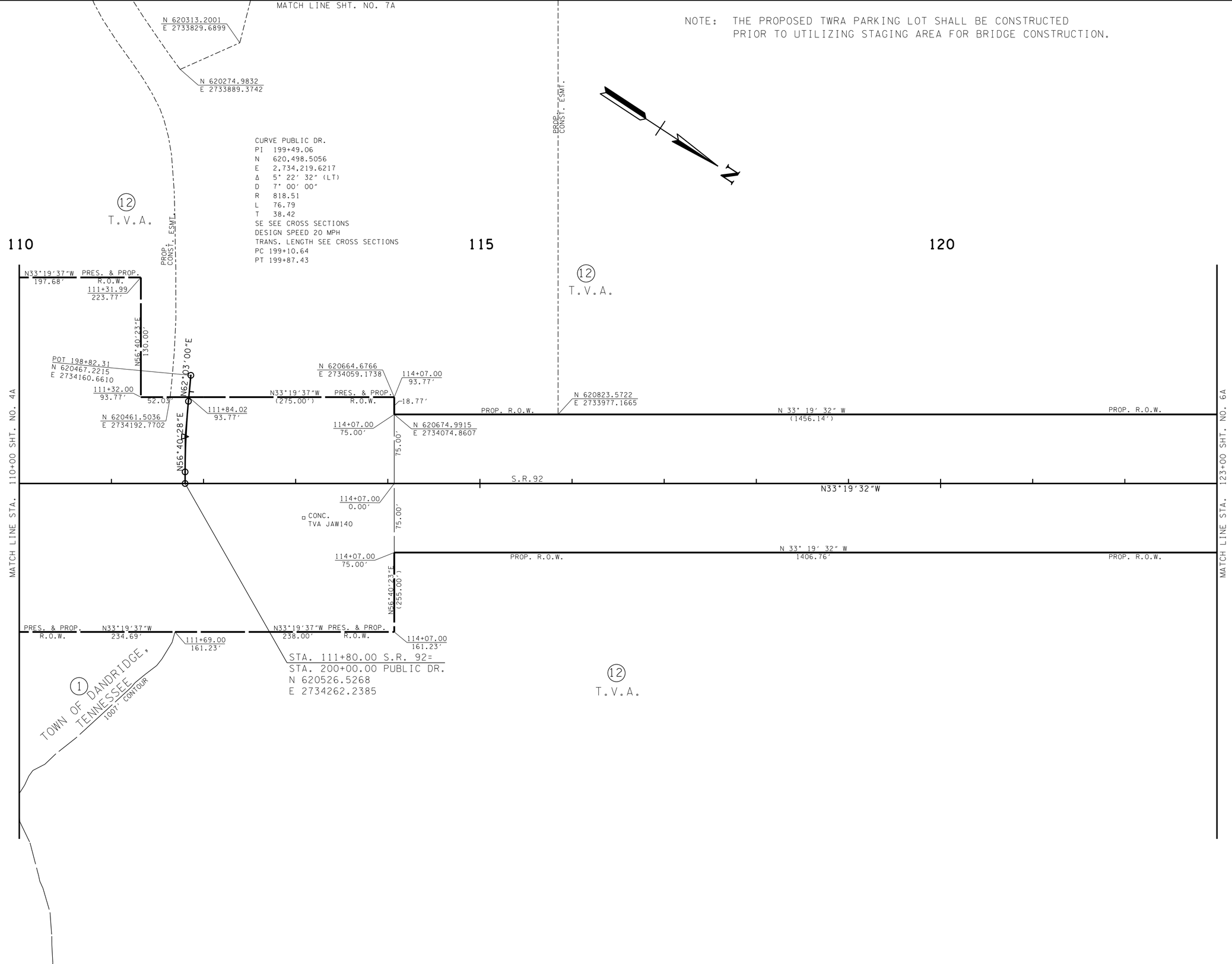
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	5A
CONST.	2015	BR-STP-92(11)	5A

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

NOTE: THE PROPOSED TWRA PARKING LOT SHALL BE CONSTRUCTED PRIOR TO UTILIZING STAGING AREA FOR BRIDGE CONSTRUCTION.



UNOFFICIAL SET

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SEALED BY

CHRISTIE DAWN BROWN
REGISTERED ENGINEER
DEPT. OF AGRICULTURE
COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED R.O.W.

STA.110+00 TO STA.123+00

SCALE: 1″=50′

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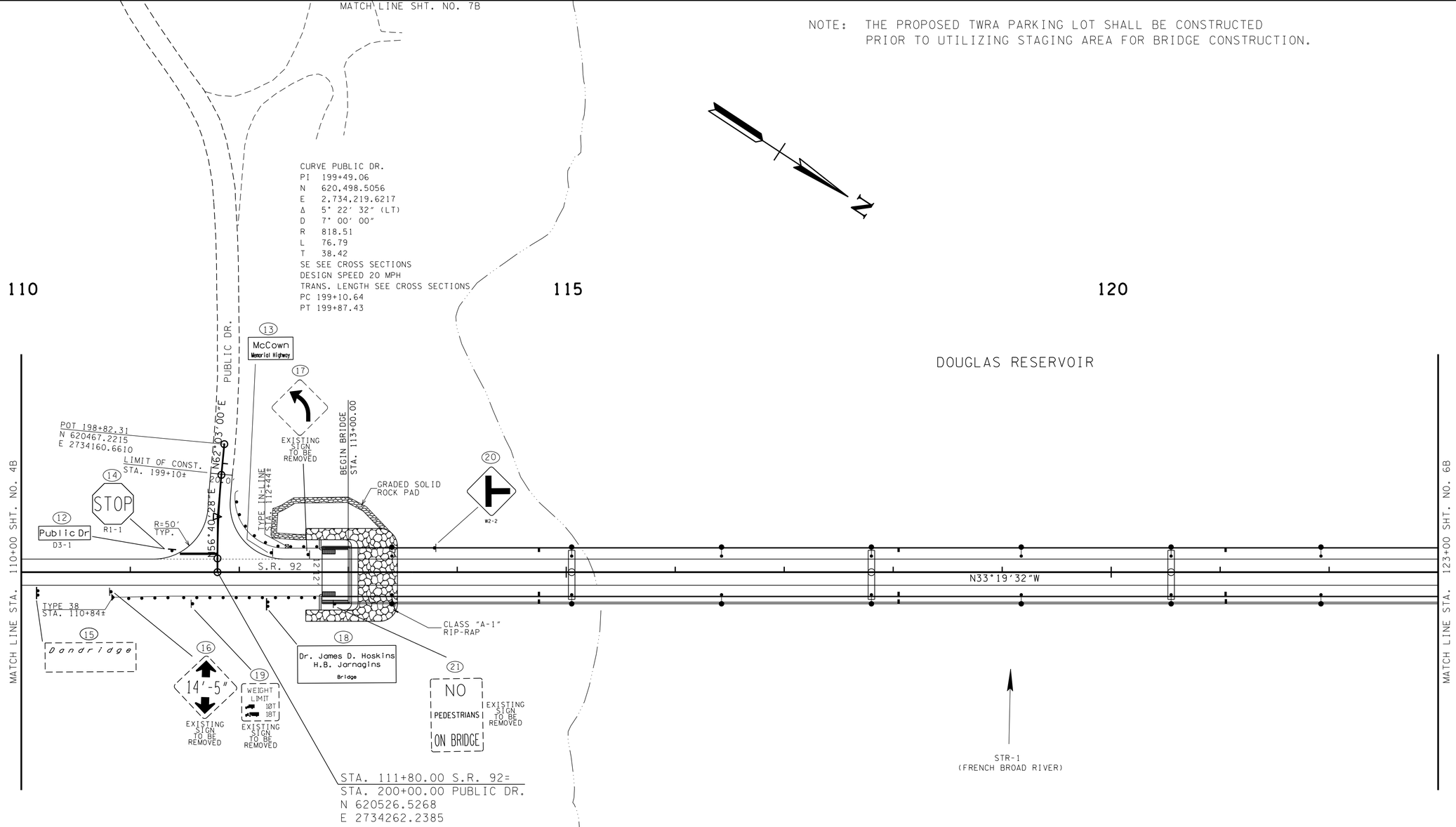
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	BR-STP-92(11)	5B
CONST.	2015	BR-STP-92(11)	5B

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

REV. 7-23-15: ADDED PROPOSED STREET LIGHTING LOCATIONS AND LEGEND.

NOTE: THE PROPOSED TWRA PARKING LOT SHALL BE CONSTRUCTED PRIOR TO UTILIZING STAGING AREA FOR BRIDGE CONSTRUCTION.



LEGEND

- PROPOSED 12′ LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17′ MH, 100W LED, WIRED FOR 120/240V OPERATION)
- PROPOSED 16′ LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17′ MH, 100W LED, WIRED FOR 120/240V OPERATION)

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF FRENCH BROAD RIVER (STR-1) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PORTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT PERMITTED LOCATIONS.

NOTE: PRIOR TO REMOVAL OF EXISTING BRIDGE CONTRACTOR IS TO CONTACT TWRA FOR OSPREY NEST RELOCATION.

UNOFFICIAL SET

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SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.110+00 TO STA.123+00

SCALE: 1"=50′

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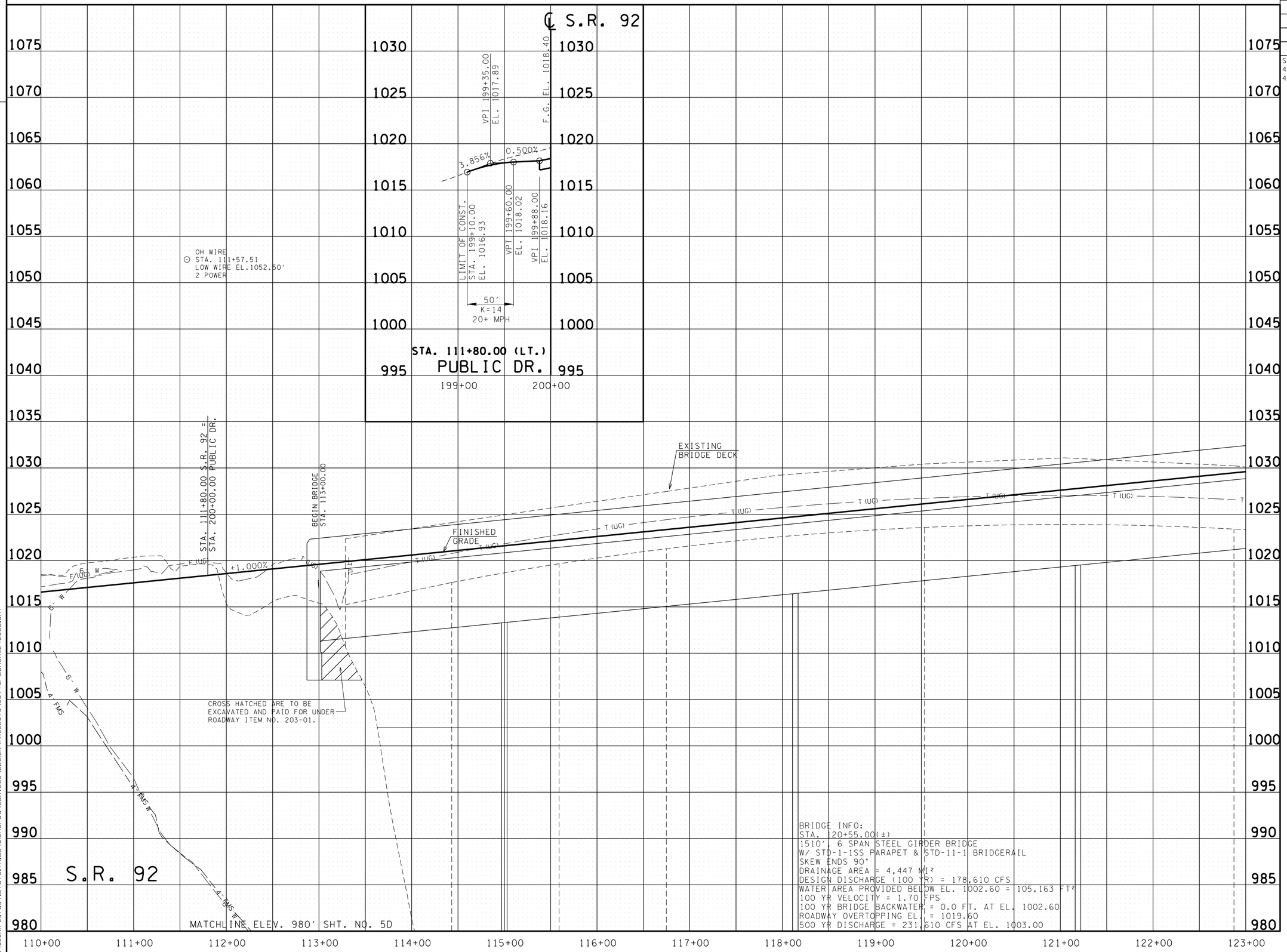
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	5C
CONST.	2015	BR-STP-92(11)	5C

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.110+00 TO STA.123+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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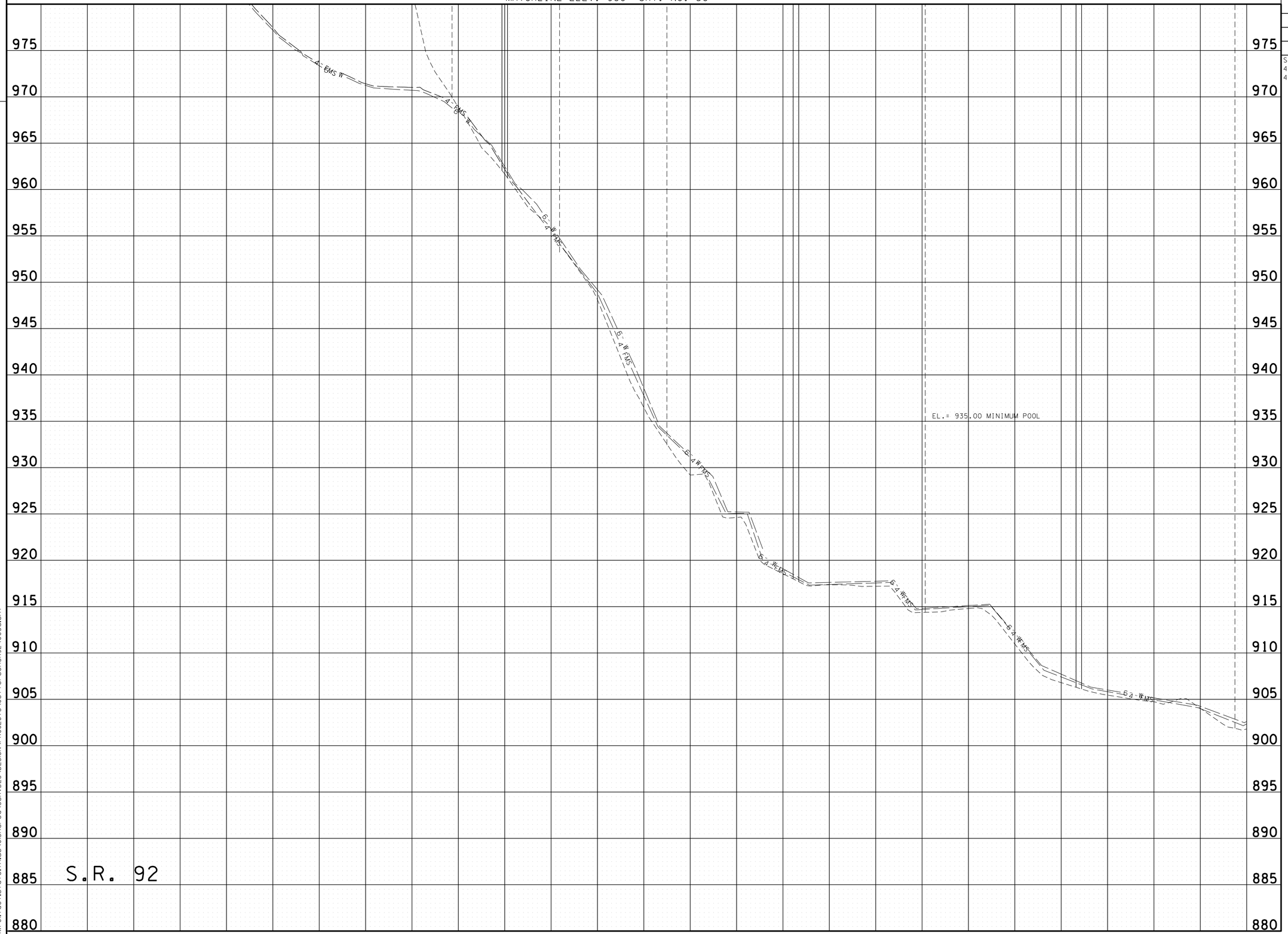
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

MATCHLINE ELEV. 980' SHT. NO. 5C



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	5D
CONST.	2015	BR-STP-92(11)	5D

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.110+00 TO STA.123+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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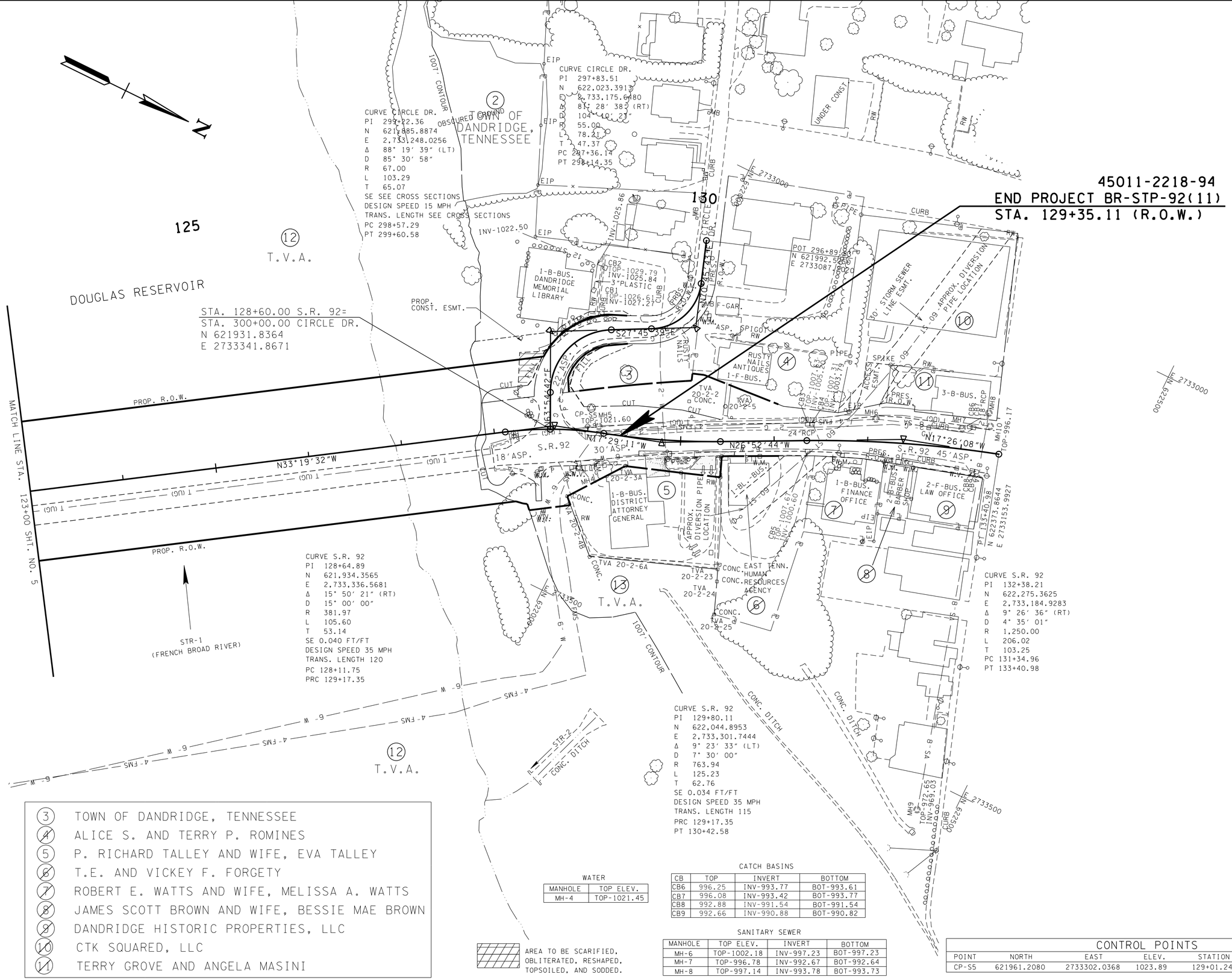
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	6
CONST.	2015	BR-STP-92(11)	6

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



(3)	TOWN OF DANDRIDGE, TENNESSEE
(4)	ALICE S. AND TERRY P. ROMINES
(5)	P. RICHARD TALLEY AND WIFE, EVA TALLEY
(6)	T.E. AND VICKEY F. FORGETY
(7)	ROBERT E. WATTS AND WIFE, MELISSA A. WATTS
(8)	JAMES SCOTT BROWN AND WIFE, BESSIE MAE BROWN
(9)	DANDRIDGE HISTORIC PROPERTIES, LLC
(10)	CTK SQUARED, LLC
(11)	TERRY GROVE AND ANGELA MASINI

WATER

MANHOLE	TOP ELEV.
MH-4	TOP-1021.45

CATCH BASINS

CB	TOP	INVERT	BOTTOM
CB6	996.25	INV-993.77	BOT-993.61
CB7	996.08	INV-993.42	BOT-993.77
CB8	992.88	INV-991.54	BOT-991.54
CB9	992.66	INV-990.88	BOT-990.82

SANITARY SEWER

MANHOLE	TOP ELEV.	INVERT	BOTTOM
MH-6	TOP-1002.18	INV-997.23	BOT-997.23
MH-7	TOP-996.78	INV-992.67	BOT-992.64
MH-8	TOP-997.14	INV-993.78	BOT-993.73

AREA TO BE SCARIFIED, OBLITERATED, RESHAPED, TOPSOILED, AND SODDED.

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
CP-S5	621961.2080	2733302.0368	1023.89	129+01.24	25.23′ (LT)

UNOFFICIAL SET

NOT FOR BIDDING

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CHRISTIE DAWN BROWN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 108681 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.123+00.00 TO STA.129+35.11

SCALE: 1"=50'

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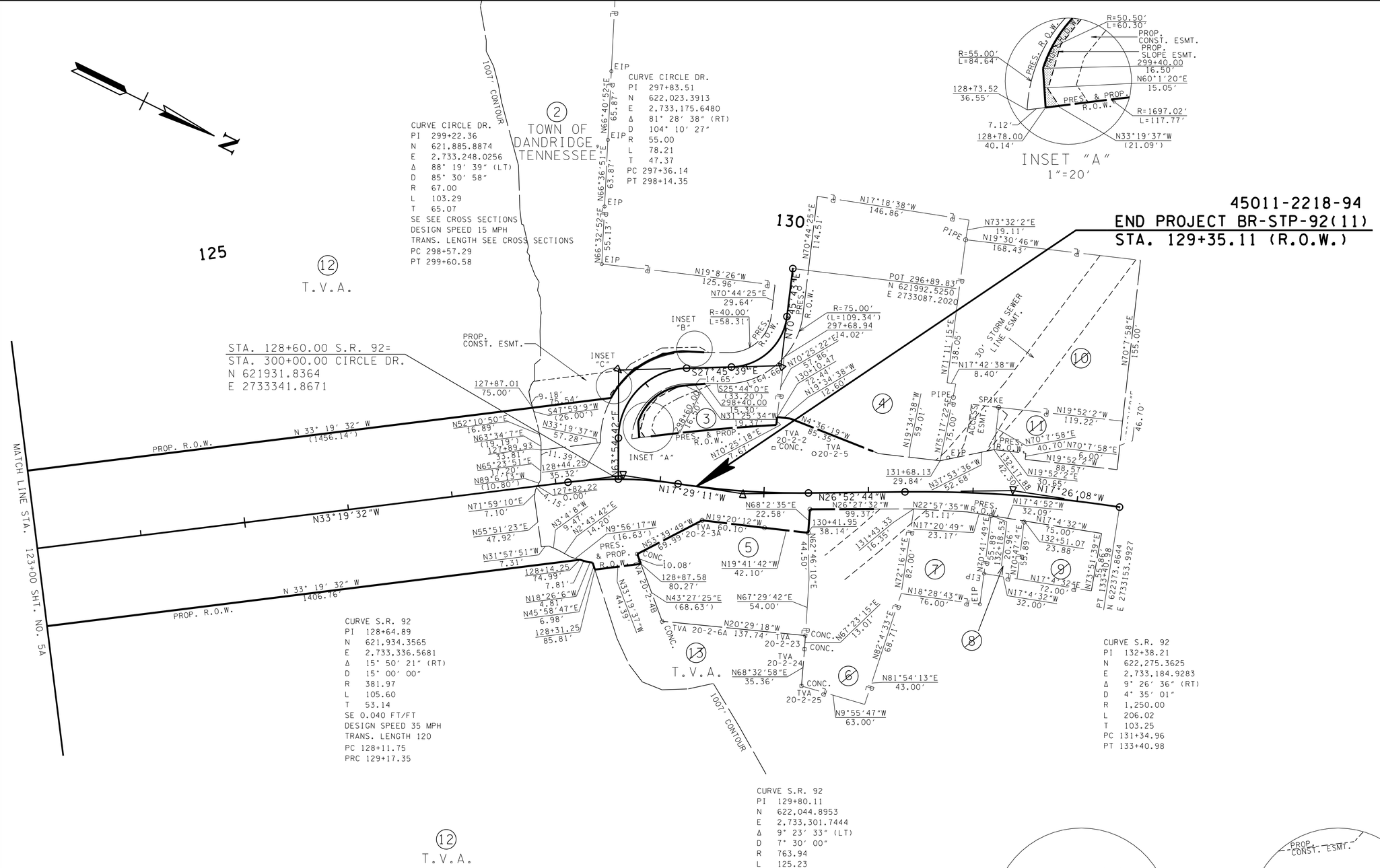
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	6A
CONST.	2015	BR-STP-92(11)	6A

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



(3) TOWN OF DANDRIDGE, TENNESSEE
(4) ALICE S. AND TERRY P. ROMINES
(5) P. RICHARD TALLEY AND WIFE, EVA TALLEY
(6) T.E. AND VICKEY F. FORGETY
(7) ROBERT E. WATTS AND WIFE, MELISSA A. WATTS
(8) JAMES SCOTT BROWN AND WIFE, BESSIE MAE BROWN
(9) DANDRIDGE HISTORIC PROPERTIES, LLC
(10) CTK SQUARED, LLC
(11) TERRY GROVE AND ANGELA MASINI

UNOFFICIAL SET

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CHRISTIE DAWN BROWN
REGISTERED ENGINEER
DEPT. OF AGRICULTURE
DEPT. OF COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED R.O.W.

STA.123+00.00 TO STA.129+35.11

SCALE: 1"=50'

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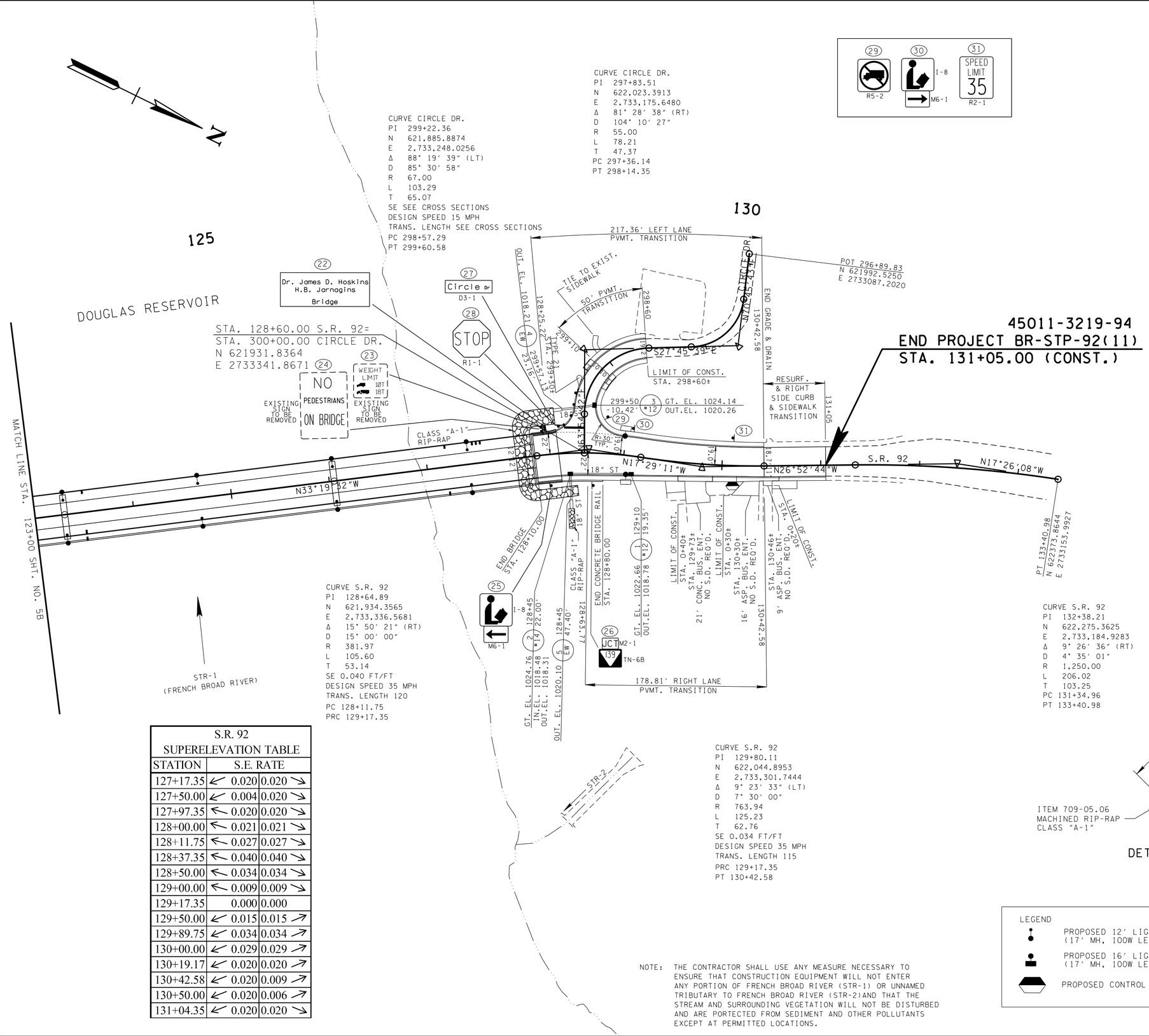
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	BR-STP-92(11)	6B
CONST.	2015	BR-STP-92(11)	6B

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

REV. 7-23-15: ADDED STREET LIGHTING LOCATION AND LEGEND.



CURVE S.R. 92
PI 128+64.89
N 621,934.3565
E 2,733,336.5681
Δ 15° 50′ 21″ (RT)
D 15° 00′ 00″
R 381.97
L 105.60
T 53.14
SE 0.040 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 120
PC 128+11.75
PRC 129+17.35

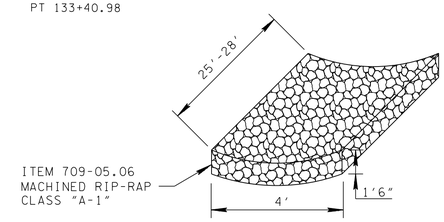
CURVE S.R. 92
PI 132+38.21
N 622,275.3625
E 2,733,184.9283
Δ 9° 26′ 36″ (RT)
D 4° 35′ 01″
R 1,250.00
L 206.02
T 103.25
PC 131+34.96
PT 133+40.98

CURVE S.R. 92
PI 129+80.11
N 622,044.8953
E 2,733,301.7444
Δ 9° 23′ 33″ (LT)
D 7° 30′ 00″
R 763.94
L 125.23
T 62.76
SE 0.034 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 115
PRC 129+17.35
PT 130+42.58

S.R. 92
SUPERELEVATION TABLE

STATION	S.E. RATE	
127+17.35	↙ 0.020	0.020 ↘
127+50.00	↙ 0.004	0.020 ↘
127+97.35	↖ 0.020	0.020 ↘
128+00.00	↖ 0.021	0.021 ↘
128+11.75	↖ 0.027	0.027 ↘
128+37.35	↖ 0.040	0.040 ↘
128+50.00	↖ 0.034	0.034 ↘
129+00.00	↖ 0.009	0.009 ↘
129+17.35	0.000	0.000
129+50.00	↙ 0.015	0.015 ↗
129+89.75	↙ 0.034	0.034 ↗
130+00.00	↙ 0.029	0.029 ↗
130+19.17	↙ 0.020	0.020 ↗
130+42.58	↙ 0.020	0.009 ↗
130+50.00	↙ 0.020	0.006 ↗
131+04.35	↙ 0.020	0.020 ↘

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF FRENCH BROAD RIVER (STR-1) OR UNNAMED TRIBUTARY TO FRENCH BROAD RIVER (STR-2) AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PORTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT PERMITTED LOCATIONS.



DETAIL OF RIP-RAP PAD AT PIPE OUTLETS

LEGEND

- PROPOSED 12′ LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17′ MH, 100W LED, WIRED FOR 120/240V OPERATION)
- PROPOSED 16′ LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17′ MH, 100W LED, WIRED FOR 120/240V OPERATION)
- PROPOSED CONTROL CENTER (NOT TO SCALE)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

CHRISTIE DAWN BROWN REGISTERED ENGINEER AGRICULTURE COMMERCE No. 108681 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.123+00 TO STA.131+05

SCALE: 1"=50′

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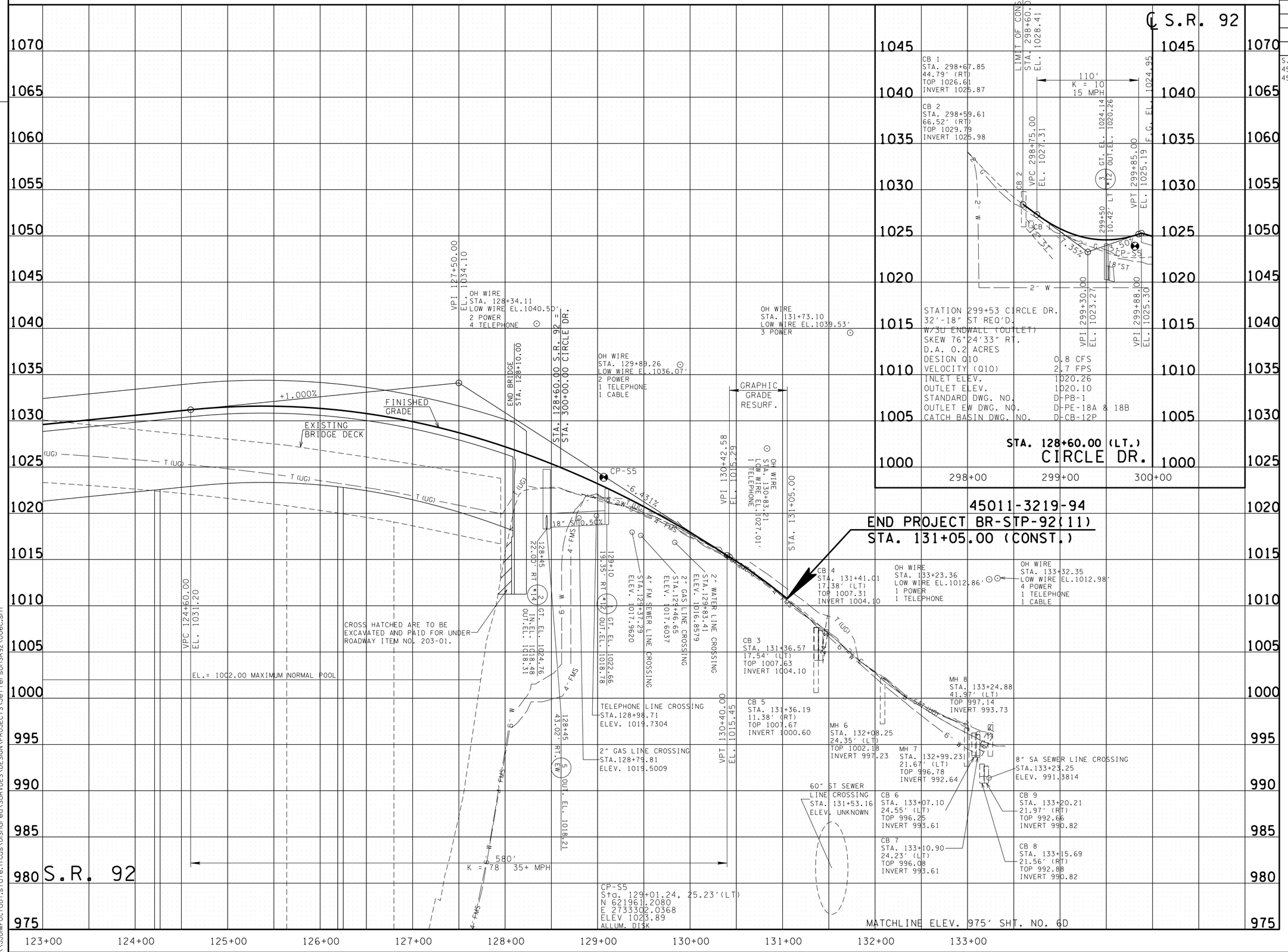
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	6C
CONST.	2015	BR-STP-92(11)	6C

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.123+00 TO STA.131+05
SCALE: 1"=50' HORIZ. 1"=5' VERT.

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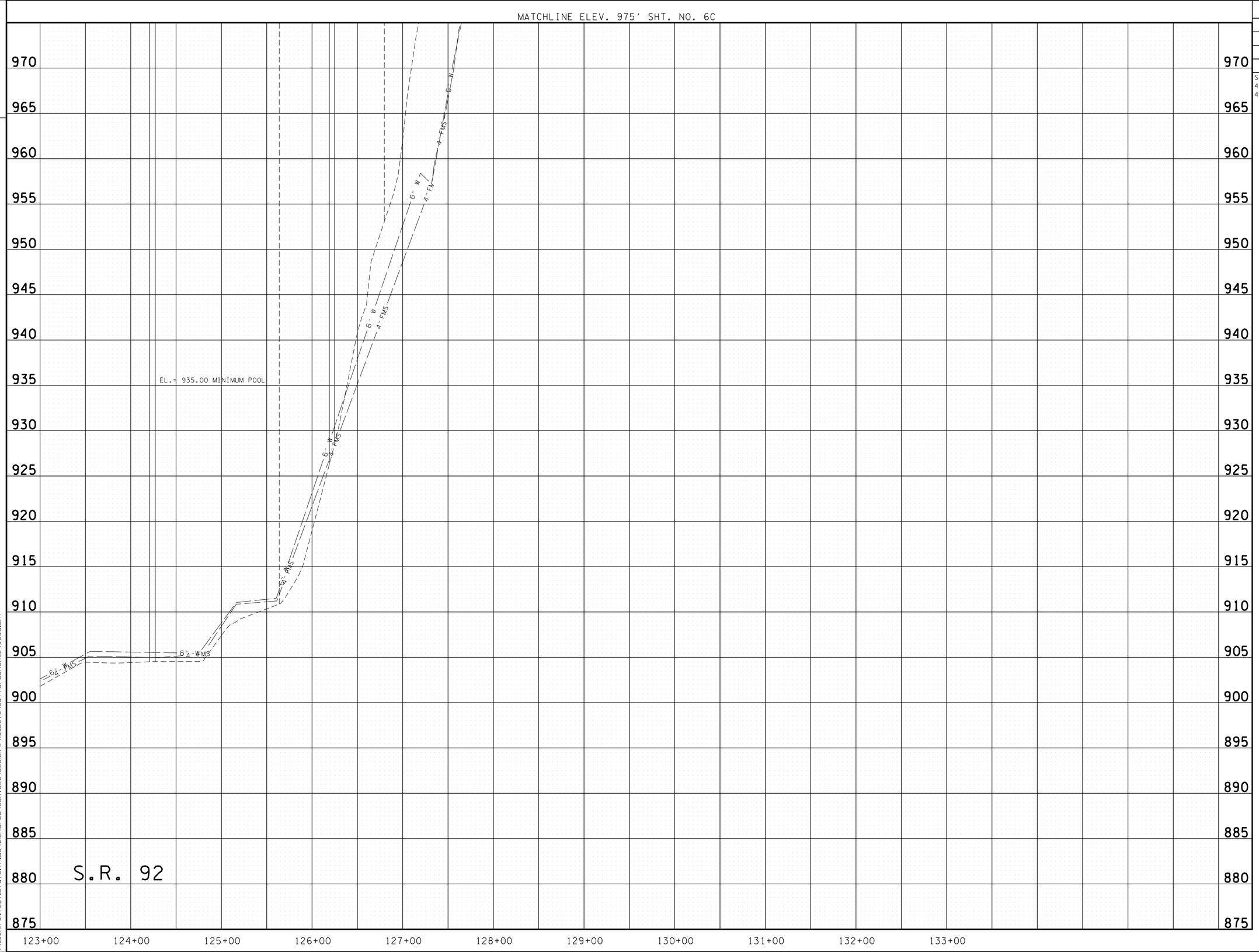
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	6D
CONST.	2015	BR-STP-92(11)	6D

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.123+00 TO
STA.131+05

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

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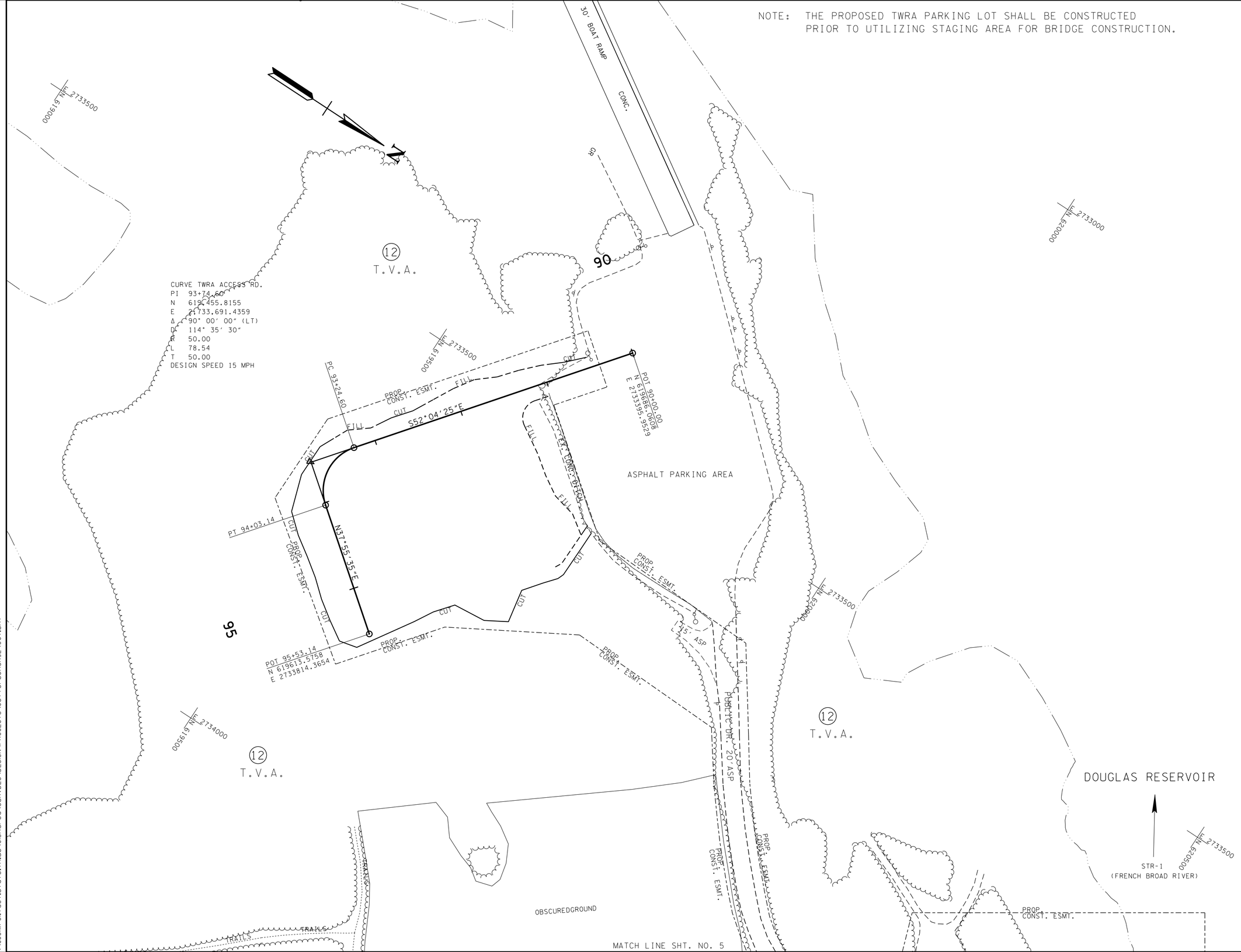
NOTE: THE PROPOSED TWRA PARKING LOT SHALL BE CONSTRUCTED PRIOR TO UTILIZING STAGING AREA FOR BRIDGE CONSTRUCTION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	7
CONST.	2015	BR-STP-92(11)	7

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

SCALE: 1"=50'

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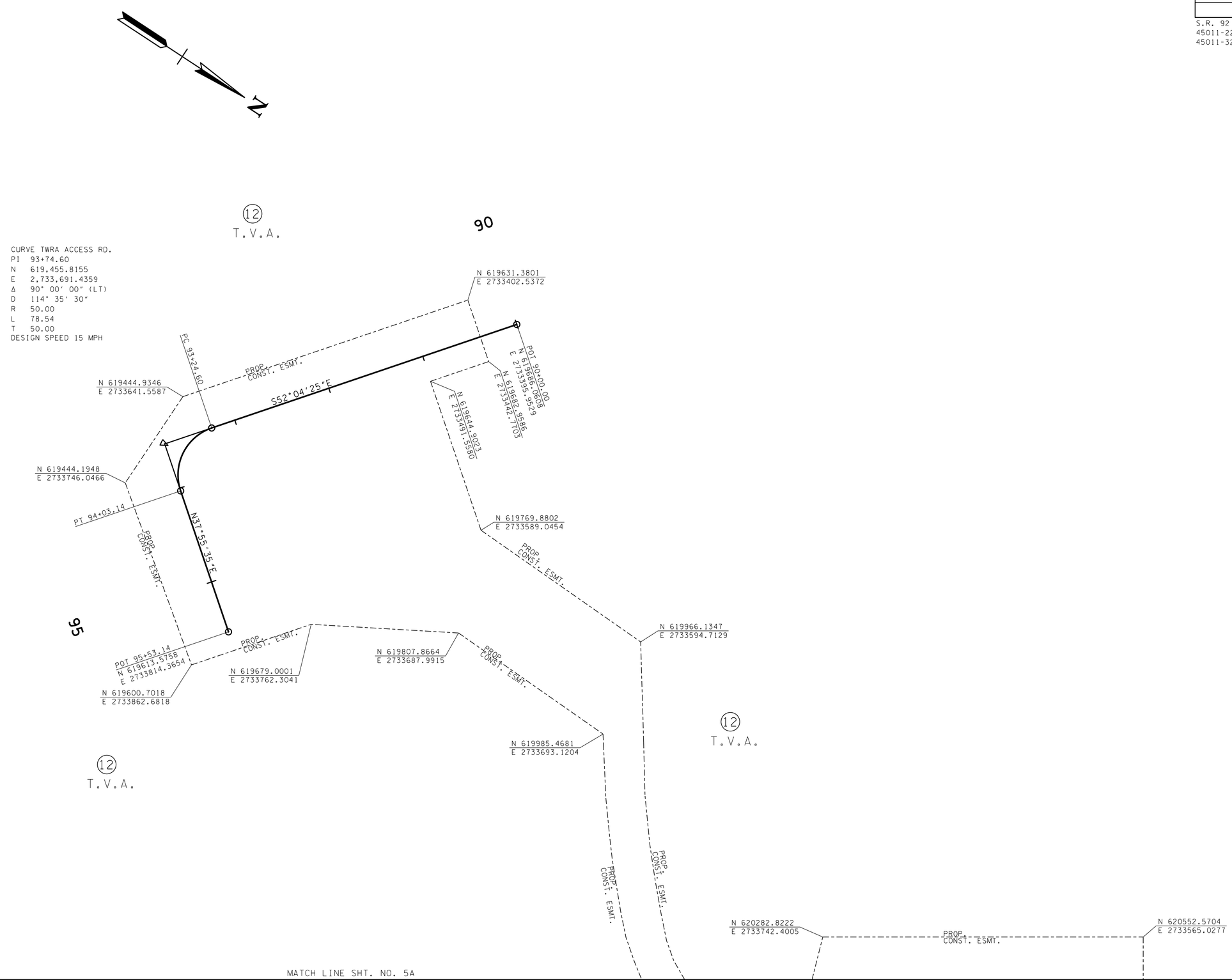
NOTE: THE PROPOSED TWRA PARKING LOT SHALL BE CONSTRUCTED PRIOR TO UTILIZING STAGING AREA FOR BRIDGE CONSTRUCTION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	7A
CONST.	2015	BR-STP-92(11)	7A

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



UNOFFICIAL SET

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SEALED BY

CHRISTIE DAWN BROWN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED R.O.W.

SCALE: 1"= 50'

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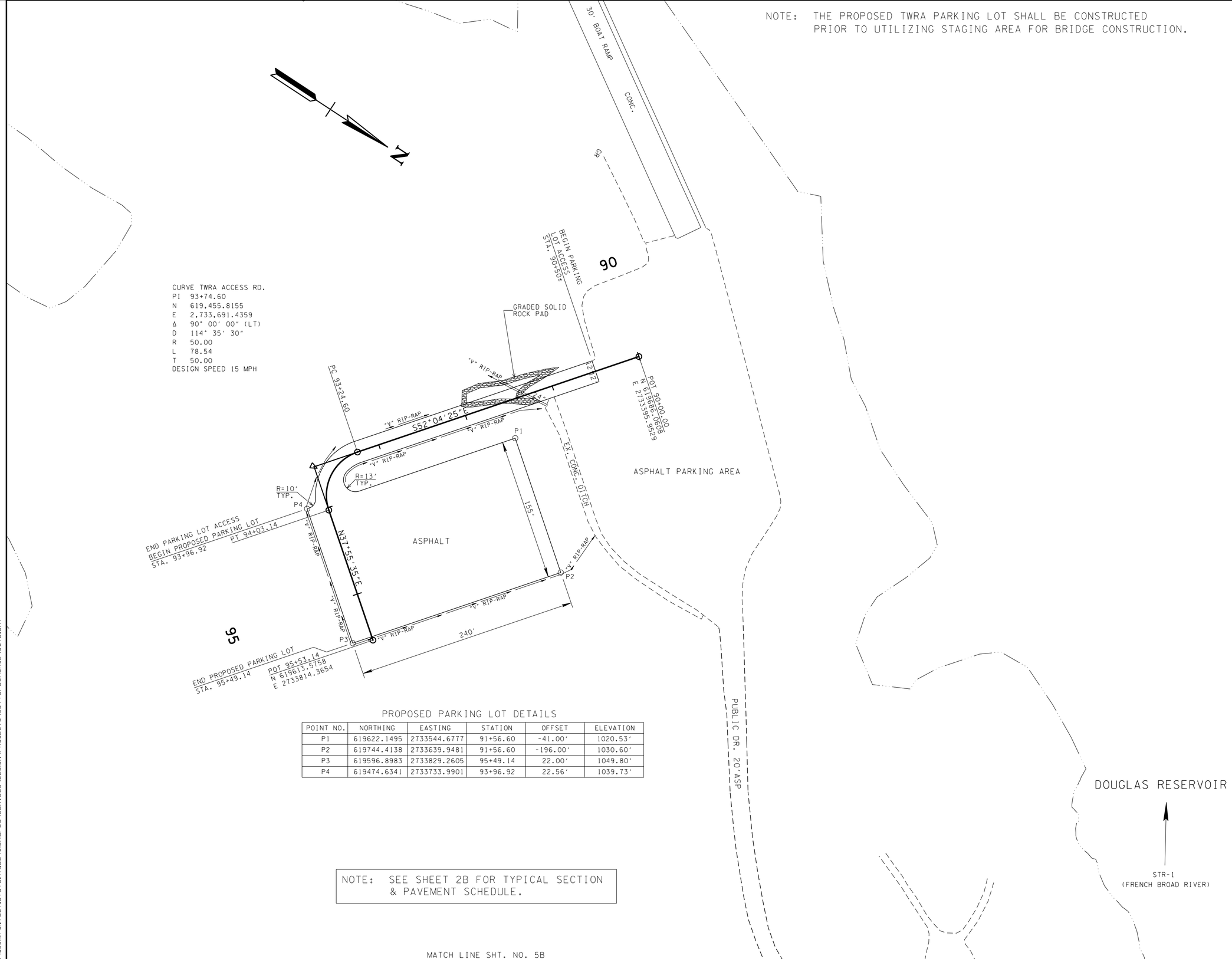
NOTE: THE PROPOSED TWRA PARKING LOT SHALL BE CONSTRUCTED PRIOR TO UTILIZING STAGING AREA FOR BRIDGE CONSTRUCTION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	7B
CONST.	2015	BR-STP-92(11)	7B

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



CURVE TWRA ACCESS RD.
PI 93+74.60
N 619,455.8155
E 2,733,691.4359
Δ 90° 00' 00" (LT)
D 114° 35' 30"
R 50.00
L 78.54
T 50.00
DESIGN SPEED 15 MPH

PROPOSED PARKING LOT DETAILS

POINT NO.	NORTHING	EASTING	STATION	OFFSET	ELEVATION
P1	619622.1495	2733544.6777	91+56.60	-41.00'	1020.53'
P2	619744.4138	2733639.9481	91+56.60	-196.00'	1030.60'
P3	619596.8983	2733829.2605	95+49.14	22.00'	1049.80'
P4	619474.6341	2733733.9901	93+96.92	22.56'	1039.73'

NOTE: SEE SHEET 2B FOR TYPICAL SECTION & PAVEMENT SCHEDULE.

MATCH LINE SHT. NO. 5B

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

CHRISTIE DAWN BROWN
REGISTERED ENGINEER
DEPT. OF AGRICULTURE
DEPT. OF COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

SCALE: 1"=50'

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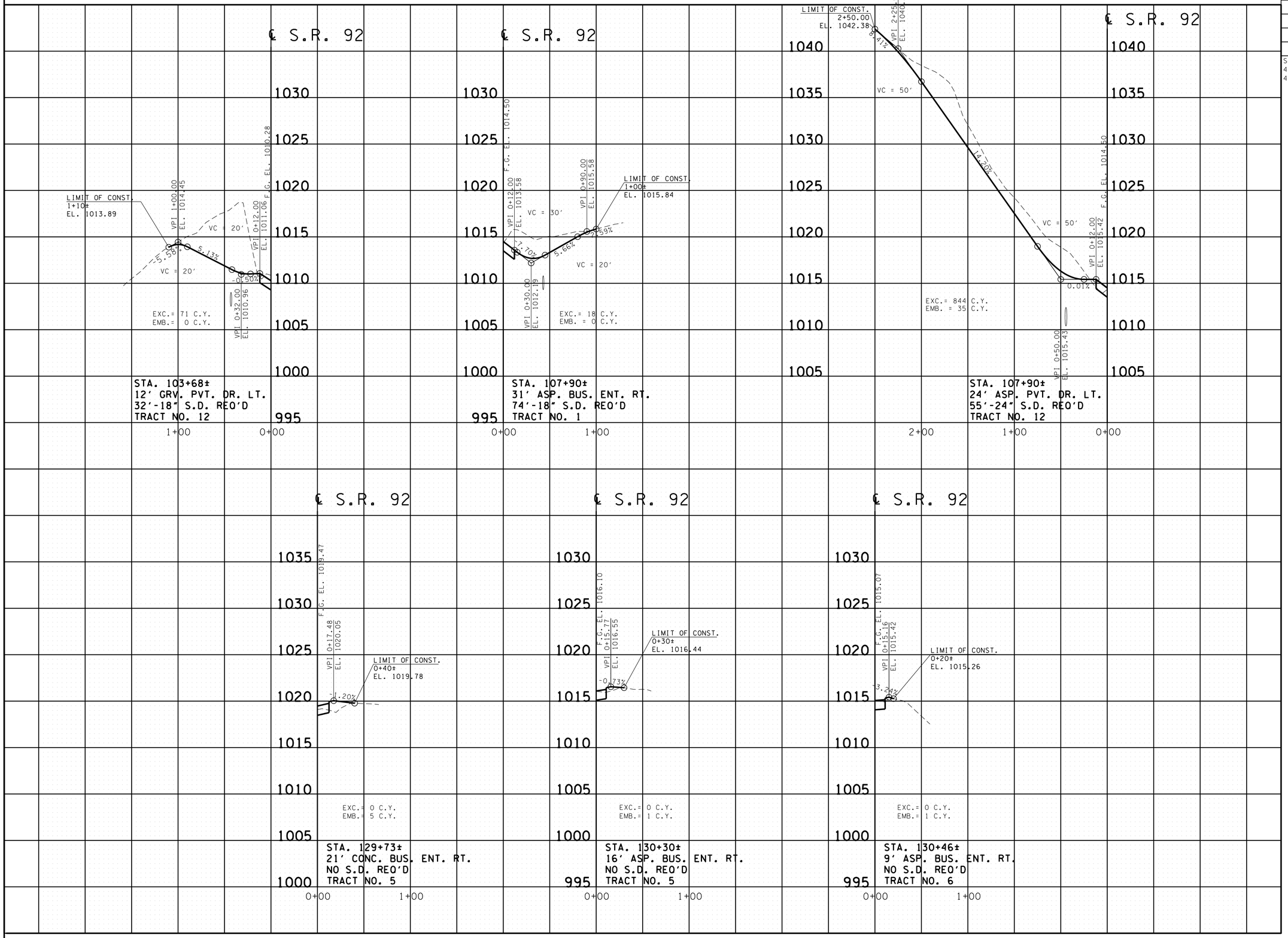
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	8
CONST.	2015	BR-STP-92(11)	8

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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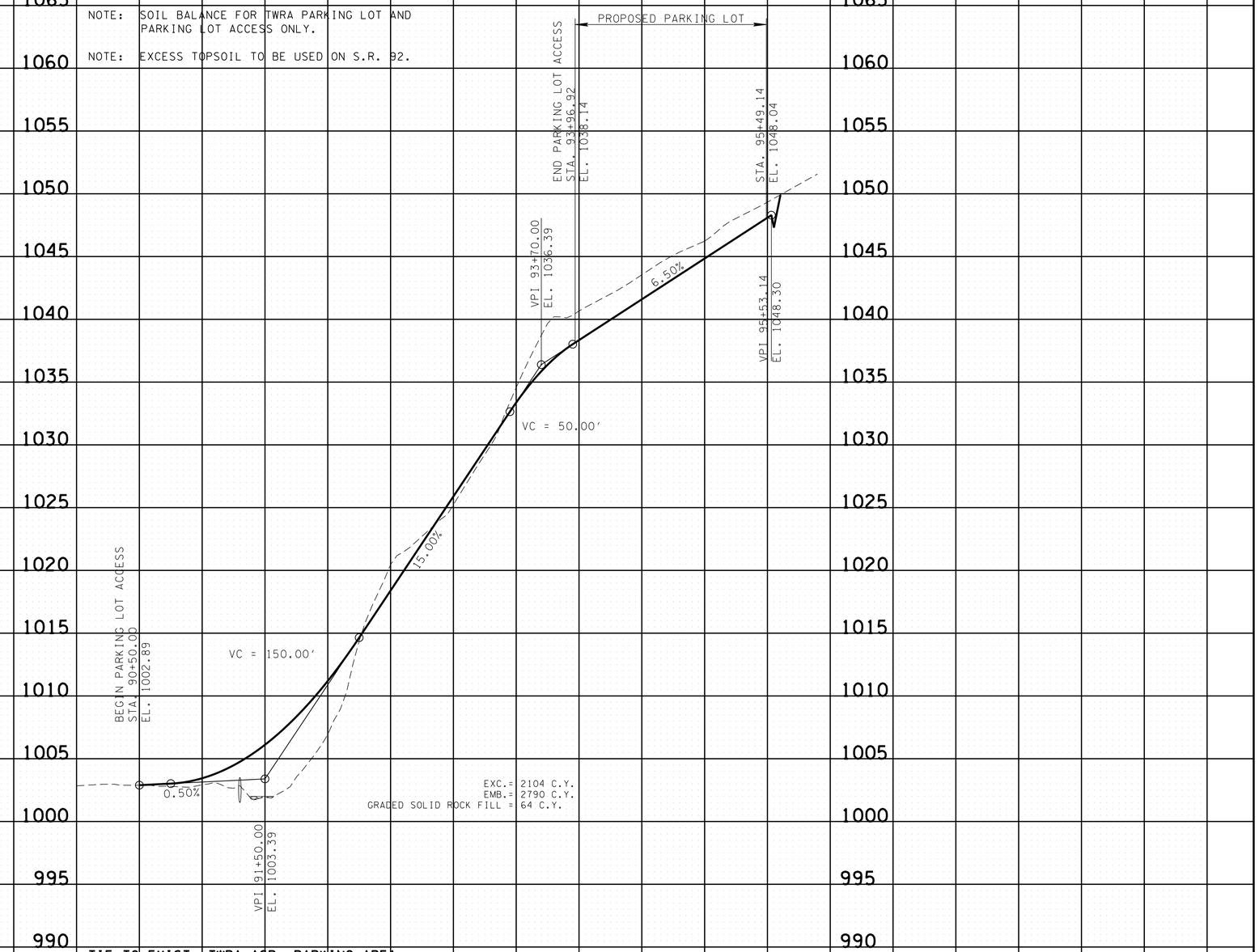
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	9
CONST.	2015	BR-STP-92(11)	9

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

EXC. (UNCLASSIFIED)	2104 C.Y.	(INCLUDES 345 C.Y. TOPSOIL FROM EMB. AREAS, 164 C.Y. FROM EXC. AREAS).
EXC. (BORROW)	1335 C.Y.	
EXC. (BORROW) (GRADED SOLID ROCK)	64 C.Y.	
EMB. (UNCLASSIFIED)	2790 C.Y.	(INCLUDES 345 C.Y. TO REPLACE STRIPPED TOPSOIL).
SHRINKAGE 5%		

NOTE: SOIL BALANCE FOR TWRA PARKING LOT AND PARKING LOT ACCESS ONLY.

NOTE: EXCESS TOPSOIL TO BE USED ON S.R. 92.



UNOFFICIAL SET

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PROFILE OF PRIVATE DRIVES

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

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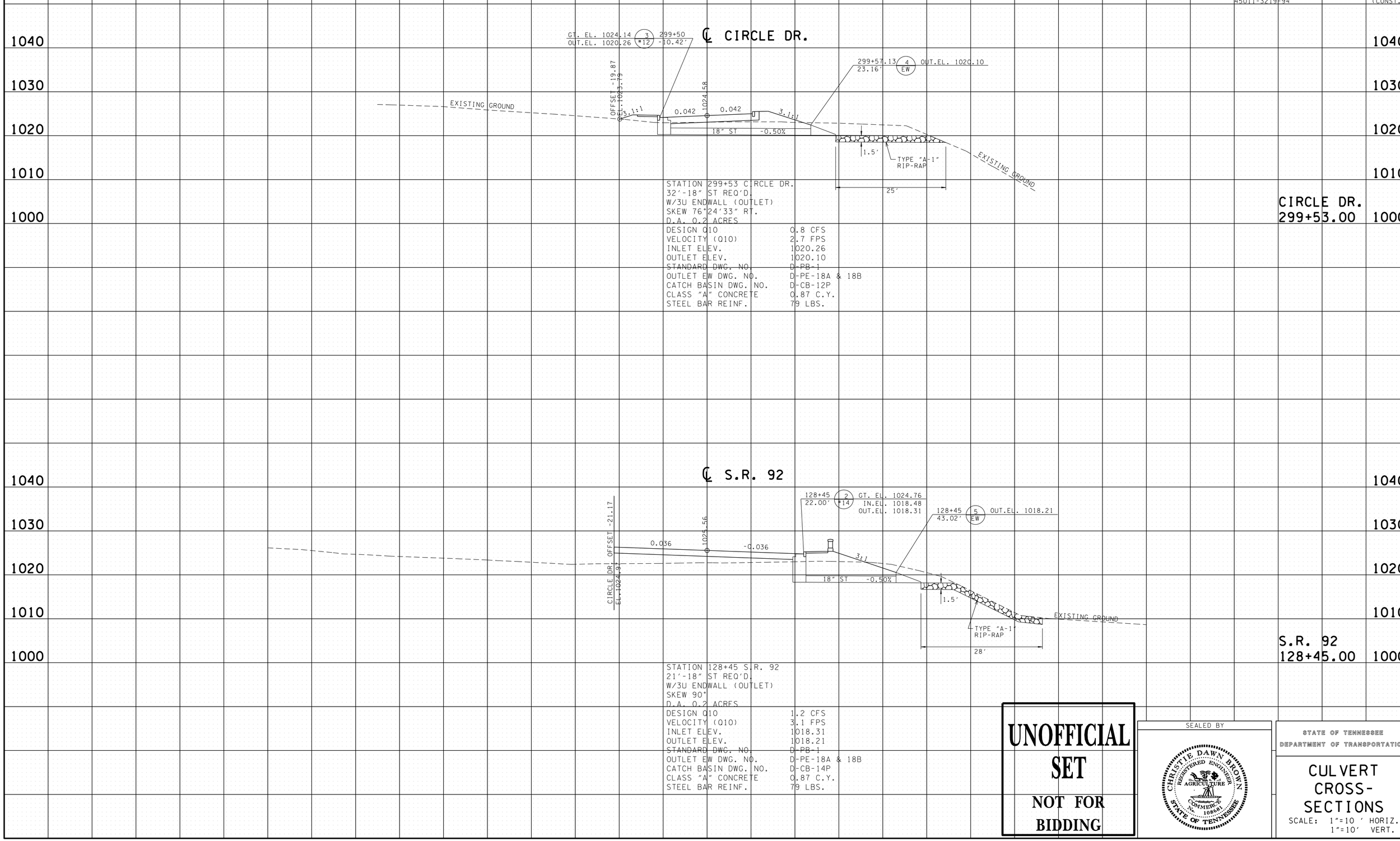
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	10
CONST.	2015	BR-STP-92(11)	10

S.R. 92
45011-3218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)



STATION 299+53 CIRCLE DR.
32'-18" ST REQ'D.
W/3U ENDWALL (OUTLET)
SKEW 76°24'33" RT.
D.A. 0.2 ACRES

DESIGN Q10	0.8 CFS
VELOCITY (Q10)	2.7 FPS
INLET ELEV.	1020.26
OUTLET ELEV.	1020.10
STANDARD DWG. NO.	D-PB-1
OUTLET EW DWG. NO.	D-PE-18A & 18B
CATCH BASIN DWG. NO.	D-CB-12P
CLASS "A" CONCRETE	0.87 C.Y.
STEEL BAR REINF.	79 LBS.

STATION 128+45 S.R. 92
21'-18" ST REQ'D.
W/3U ENDWALL (OUTLET)
SKEW 90°
D.A. 0.2 ACRES

DESIGN Q10	1.2 CFS
VELOCITY (Q10)	3.1 FPS
INLET ELEV.	1018.31
OUTLET ELEV.	1018.21
STANDARD DWG. NO.	D-PB-1
OUTLET EW DWG. NO.	D-PE-18A & 18B
CATCH BASIN DWG. NO.	D-CB-14P
CLASS "A" CONCRETE	0.87 C.Y.
STEEL BAR REINF.	79 LBS.

UNOFFICIAL SET

NOT FOR BIDDING

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CHRISTIE DAWN BROWN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 108681
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	11
CONST.	2015	BR-STP-92(11)	11

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

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

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

NPDES

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

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

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

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

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

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

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

(6) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

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

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

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

UTILITY RELOCATION

(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.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB SFB SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
SF 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
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	EC-STR-27
	EROSION CONTROL BLANKET	EC-STR-34
MFB	MULCH FILTER BERM	EC-STR-35
TUBE TUBE	SEDIMENT TUBE	EC-STR-37
	FLOATING TURBIDITY CURTAIN	EC-STR-38
2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47
HVF HVF	HIGH VISIBILITY FENCE	S-F-1

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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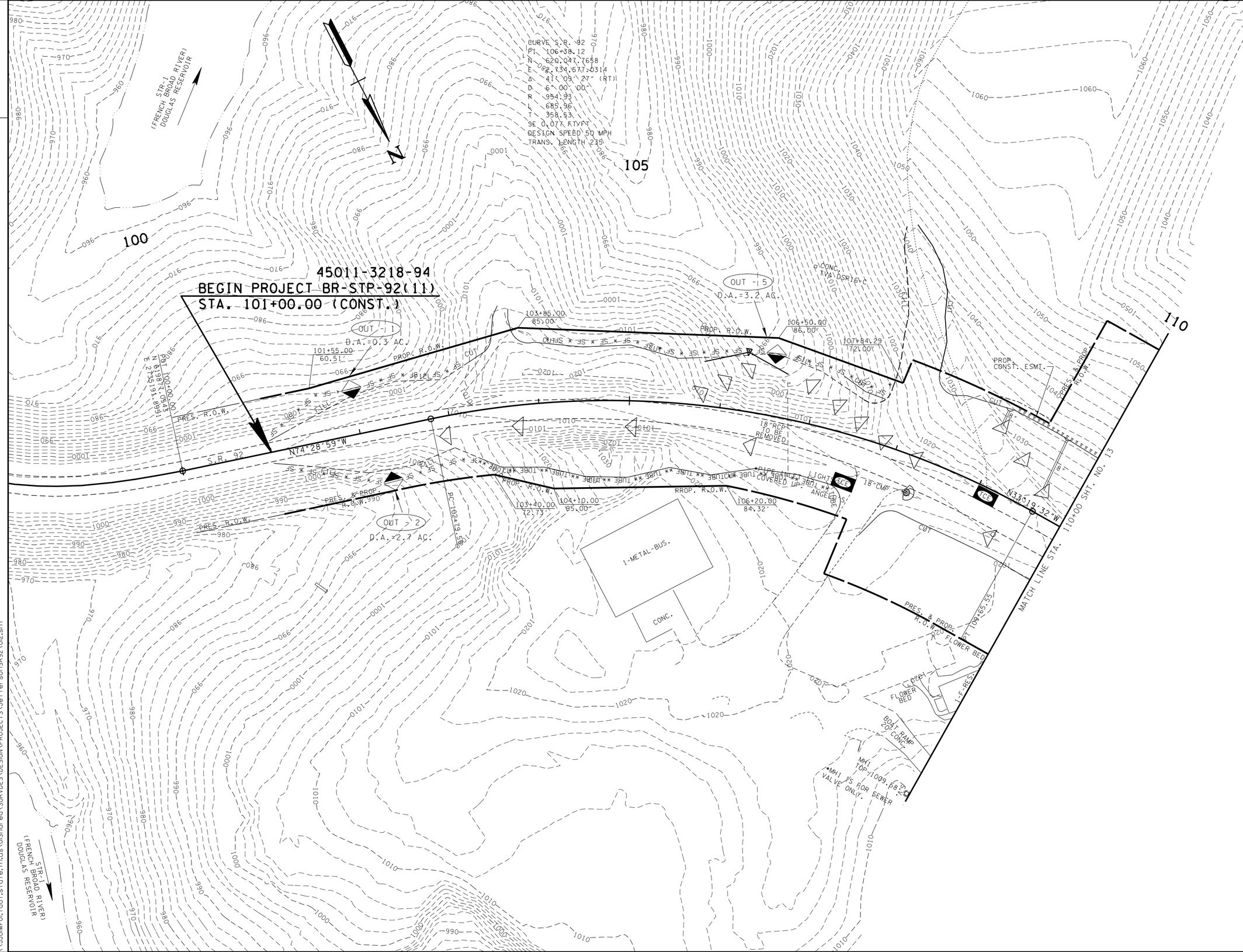
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	12
CONST.	2015	BR-STP-92(11)	12

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 1)

STA. 101+00 TO STA. 110+00

SCALE: 1"=50'

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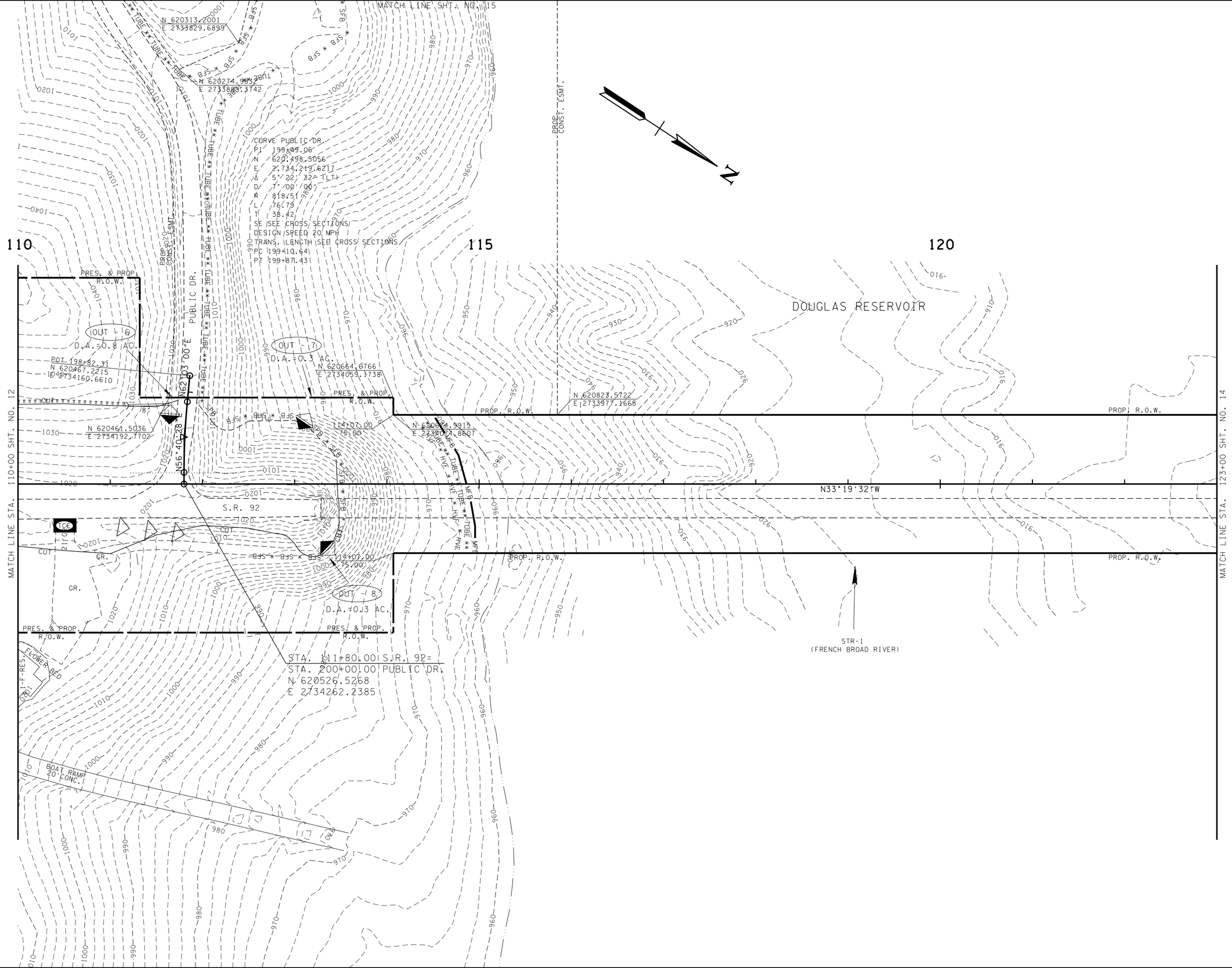
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	13
CONST.	2015	BR-STP-92(11)	13

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 1)

STA.110+00 TO STA.123+00

SCALE: 1"=50'

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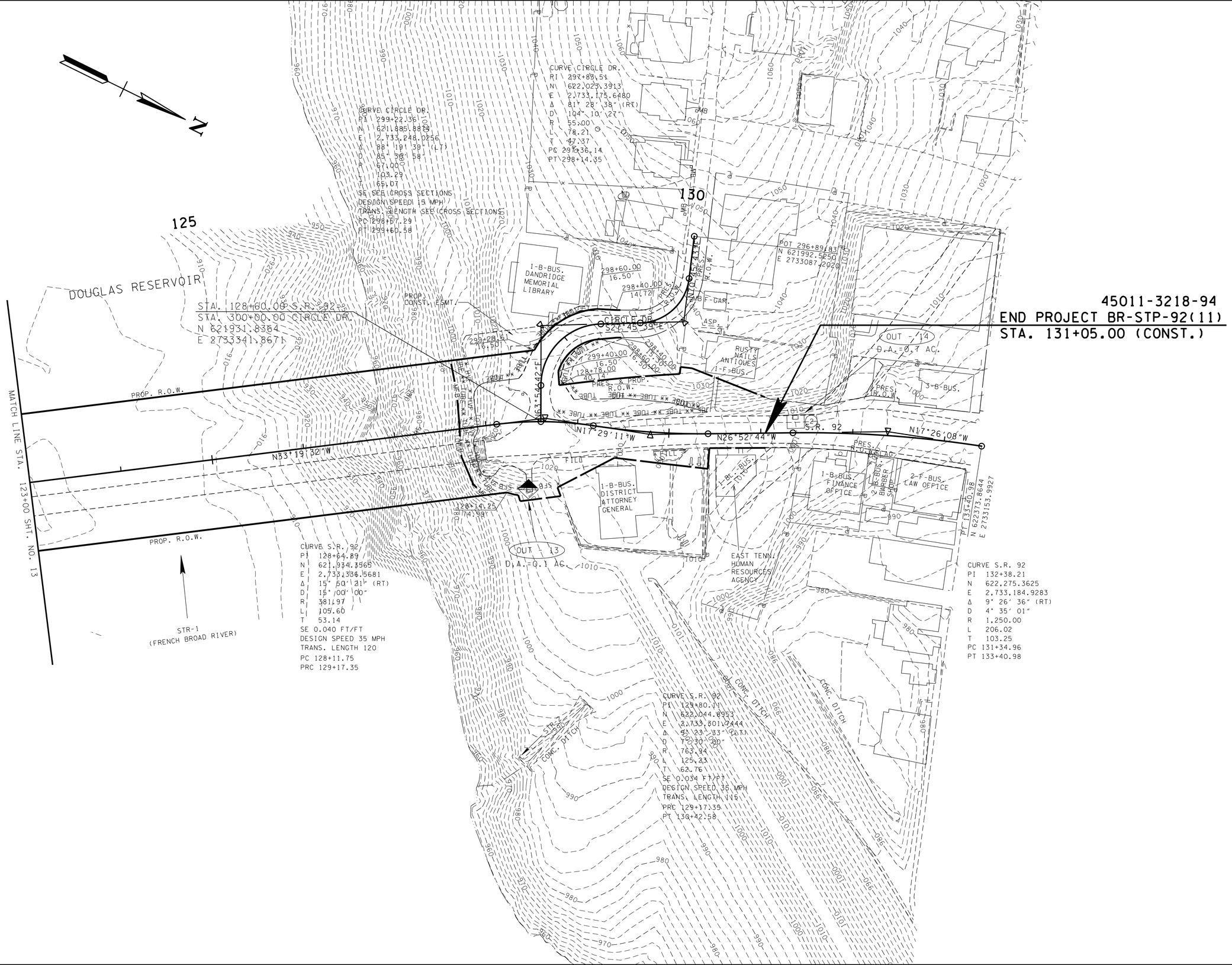
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	14
CONST.	2015	BR-STP-92(11)	14

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



45011-3218-94
END PROJECT BR-STP-92(11)
STA. 131+05.00 (CONST.)

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CHRISTIE DAWN BROWN
REGISTERED ENGINEER
DEPT. OF AGRICULTURE
DEPT. OF COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 1)

STA.123+00 TO STA.131+05

SCALE: 1"=50'

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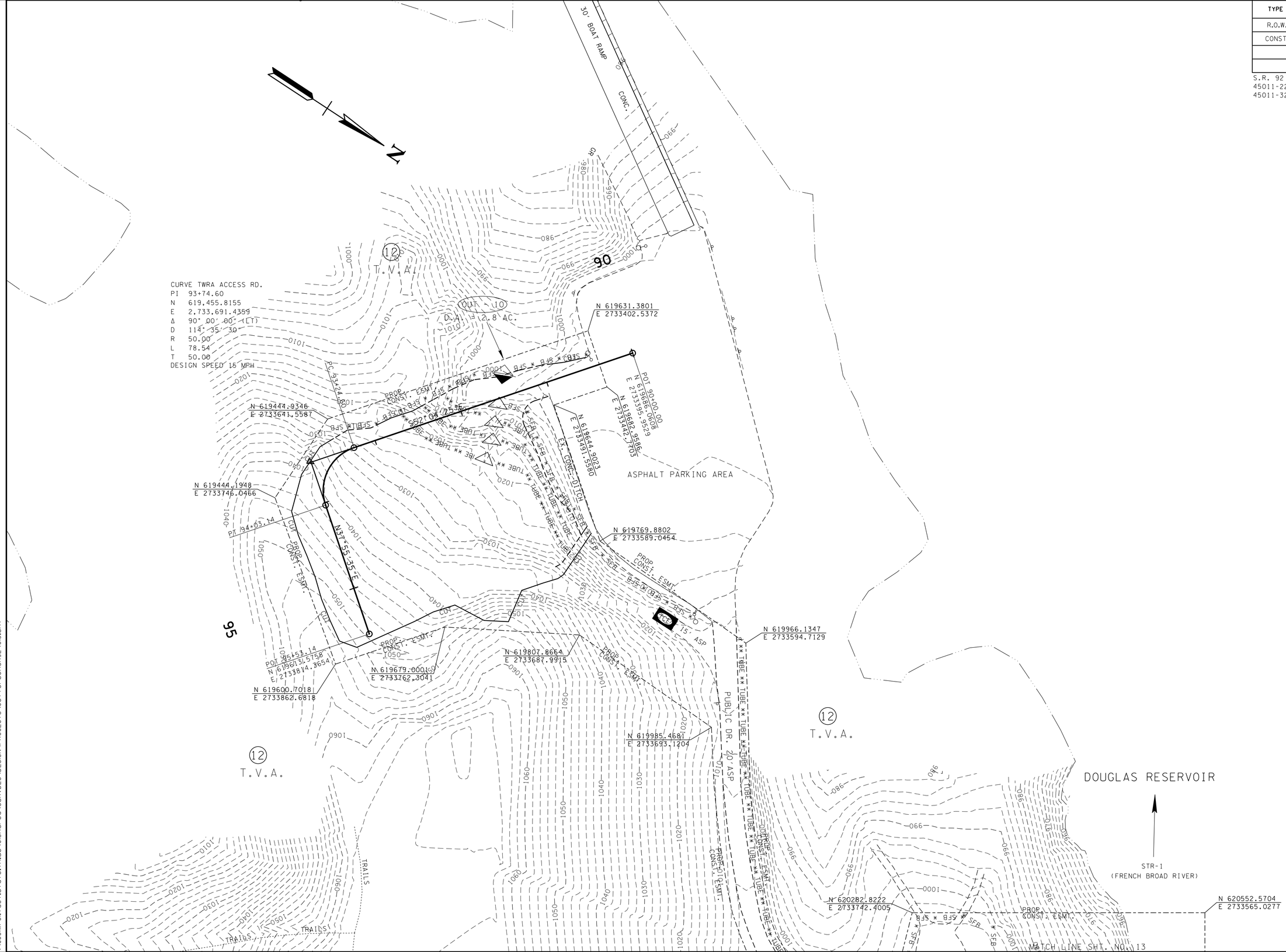
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	15
CONST.	2015	BR-STP-92(11)	15

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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CHRISTIE DAWN BROWN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 1)

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	16
CONST.	2015	BR-STP-92(11)	16

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

CURVE S.R. 92
PI 106+38.12
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E 2,734,577.0314
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D 6° 00' 00"
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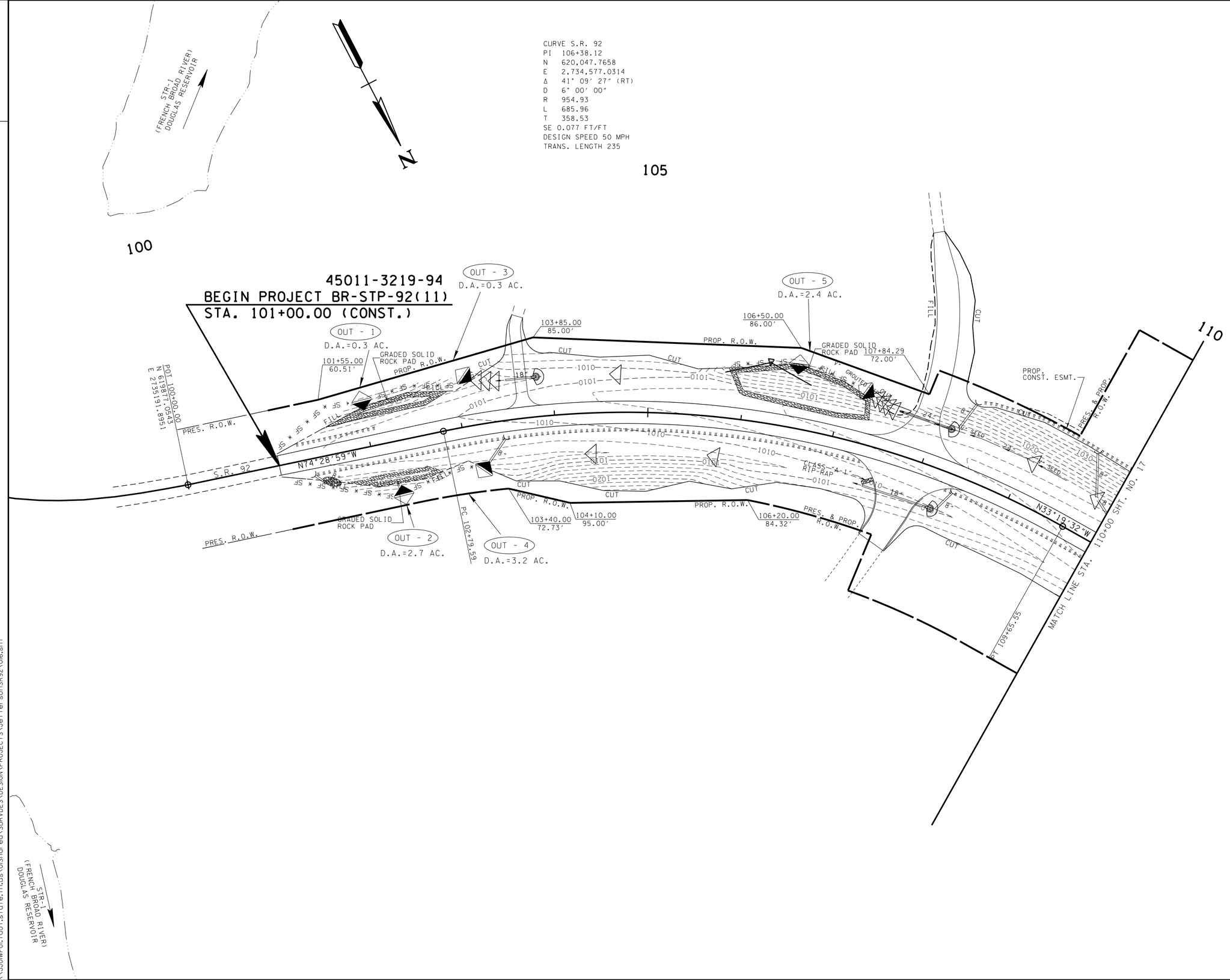
L 685.96
T 358.53
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235



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CHRISTIE DAWN BROWN
REGISTERED ENGINEER
DEPT. OF AGRICULTURE
DEPT. OF COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 2)

STA. 101+00 TO STA. 110+00

SCALE: 1"=50'

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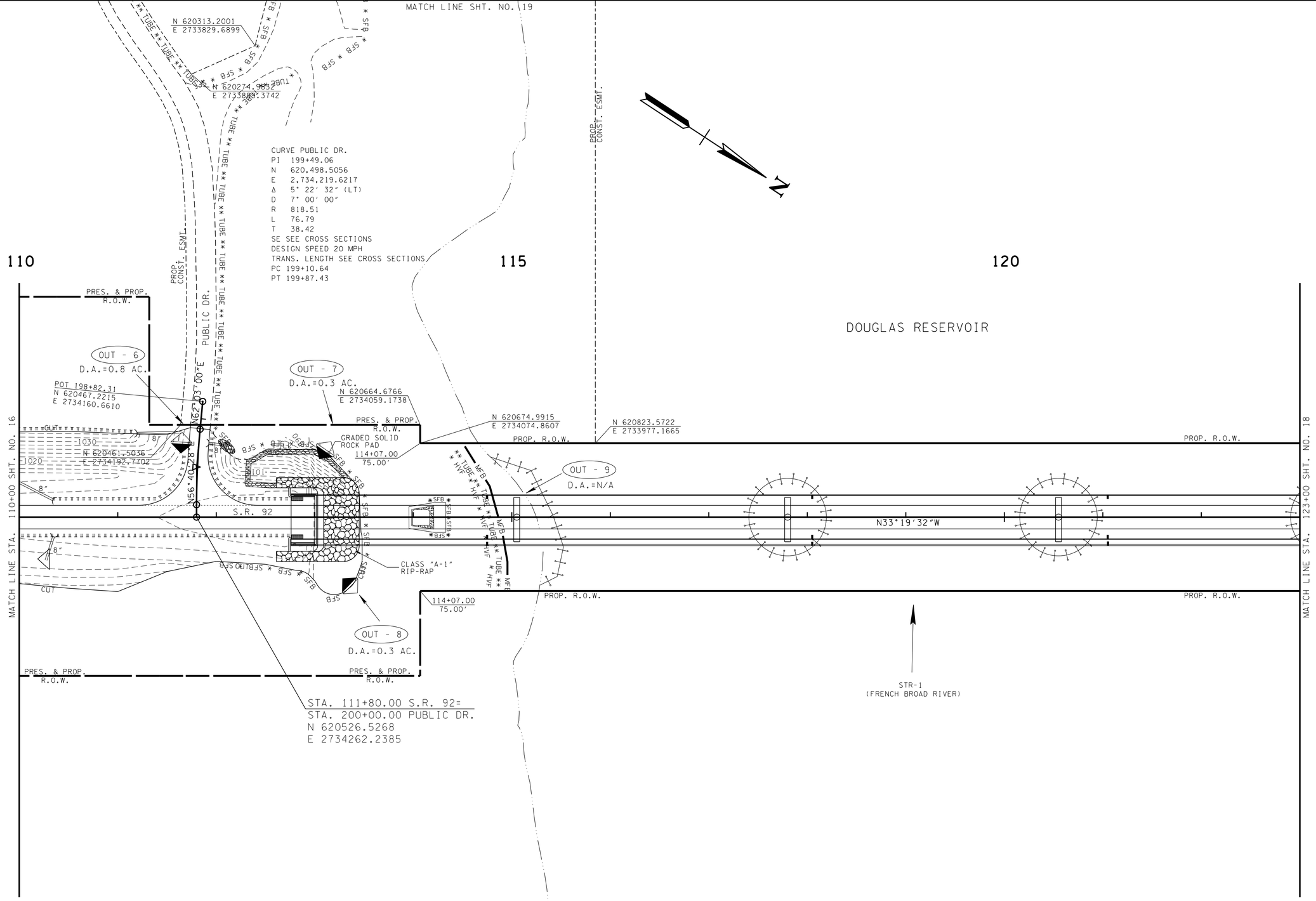
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	17
CONST.	2015	BR-STP-92(11)	17

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 2)

STA.110+00 TO STA.123+00

SCALE: 1"=50′

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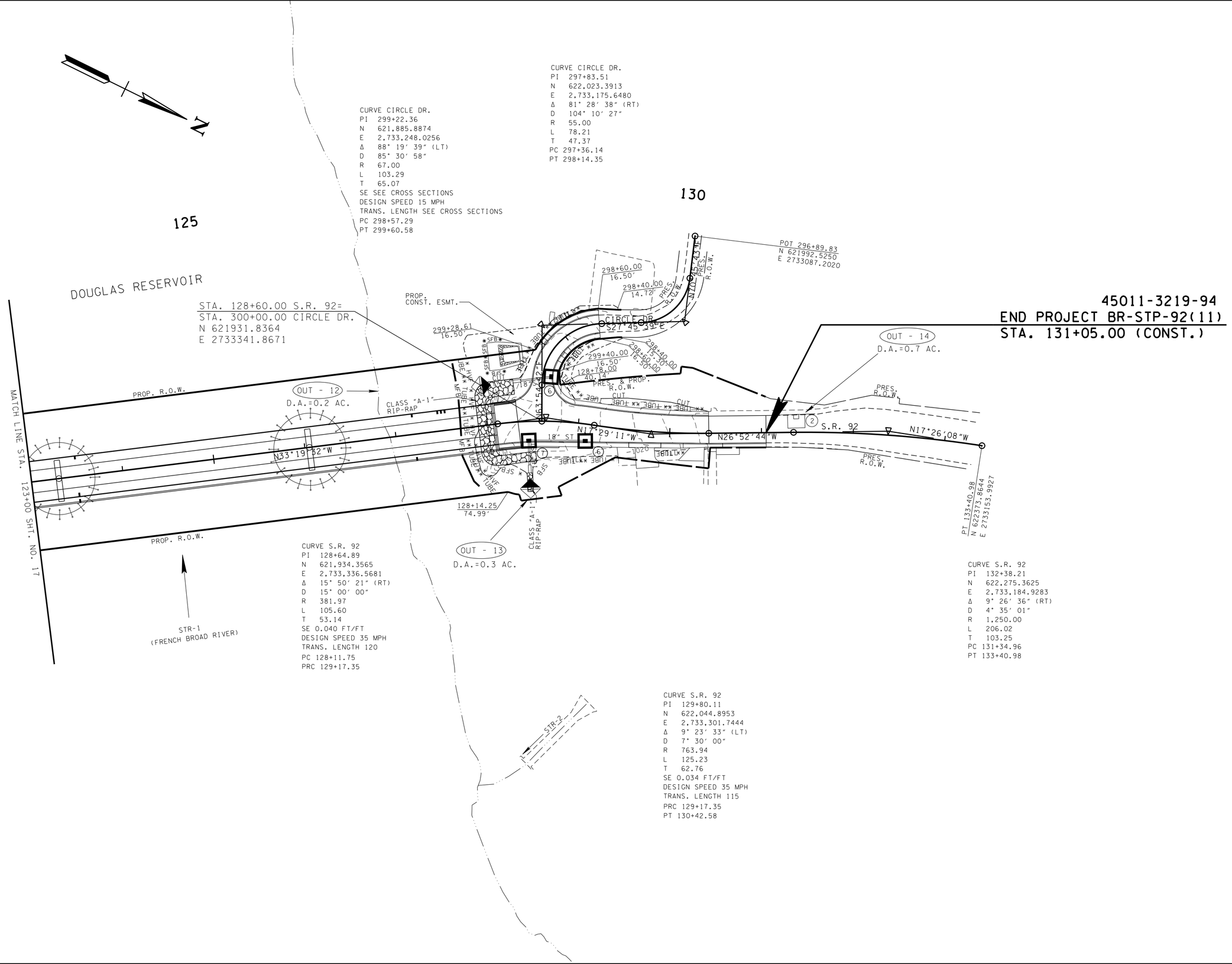
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	18
CONST.	2015	BR-STP-92(11)	18

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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CHRISTIE DAWN BROWN
REGISTERED ENGINEER
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COMMERCE
No. 108681
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 2)

STA.123+00 TO STA.131+05

SCALE: 1"=50'

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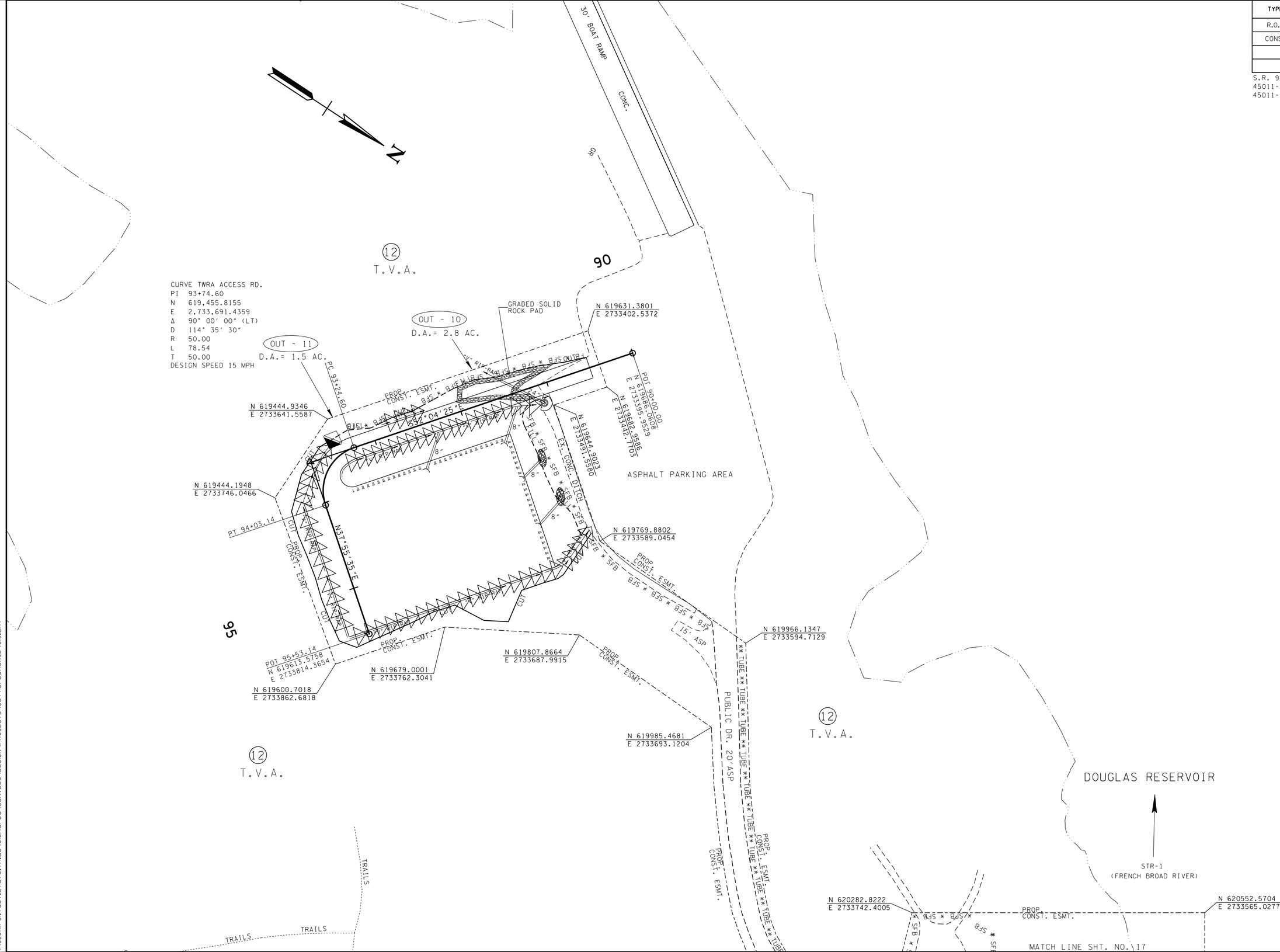
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	19
CONST.	2015	BR-STP-92(11)	19

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 2)

SCALE: 1"=50'

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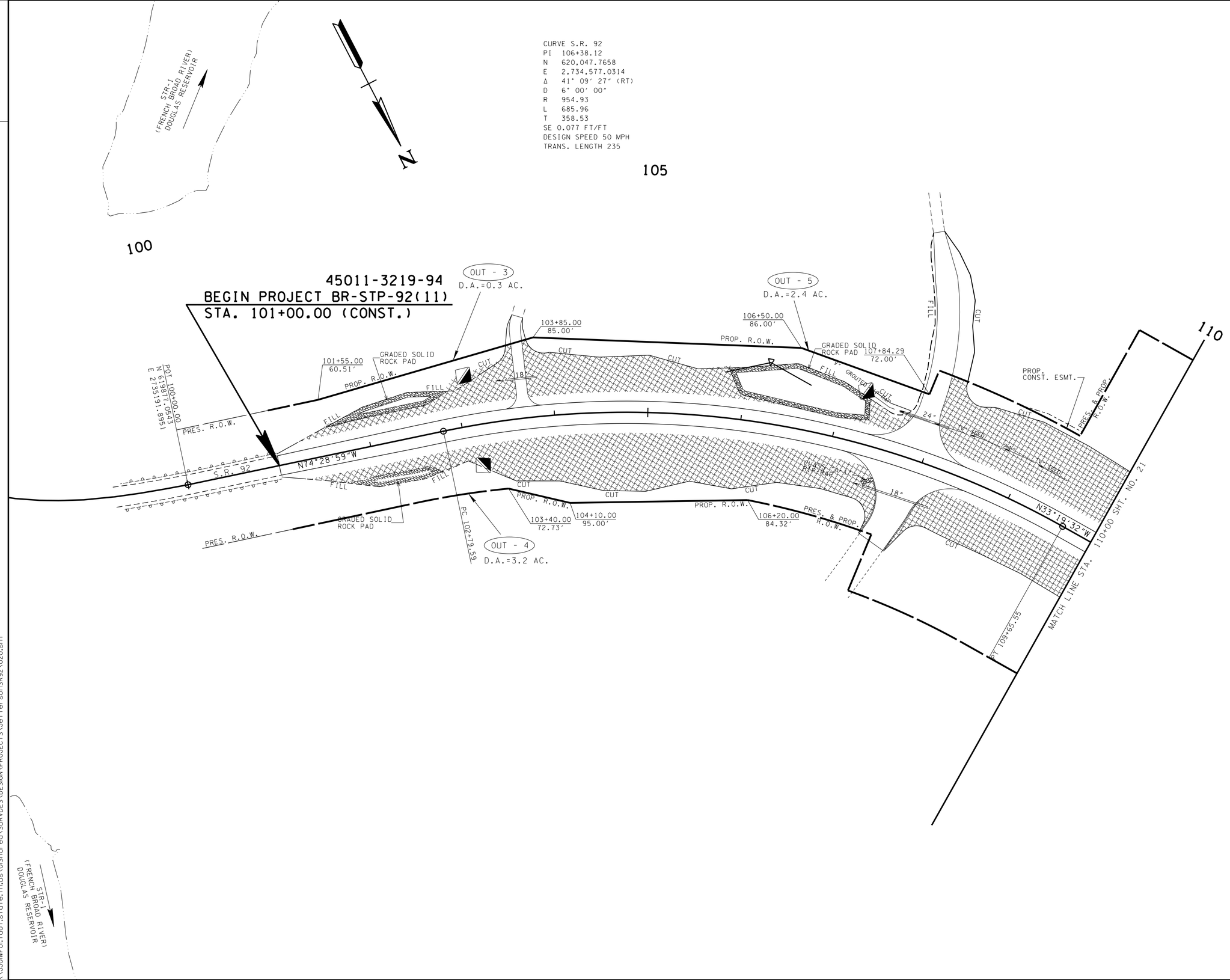
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	20
CONST.	2015	BR-STP-92(11)	20

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)

CURVE S.R. 92
PI 106+38.12
N 620,047.7658
E 2,734,577.0314
Δ 41° 09' 27" (RT)
D 6° 00' 00"
R 954.93
L 685.96
T 358.53
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 3)

STA. 101+00 TO STA. 110+00

SCALE: 1"=50'

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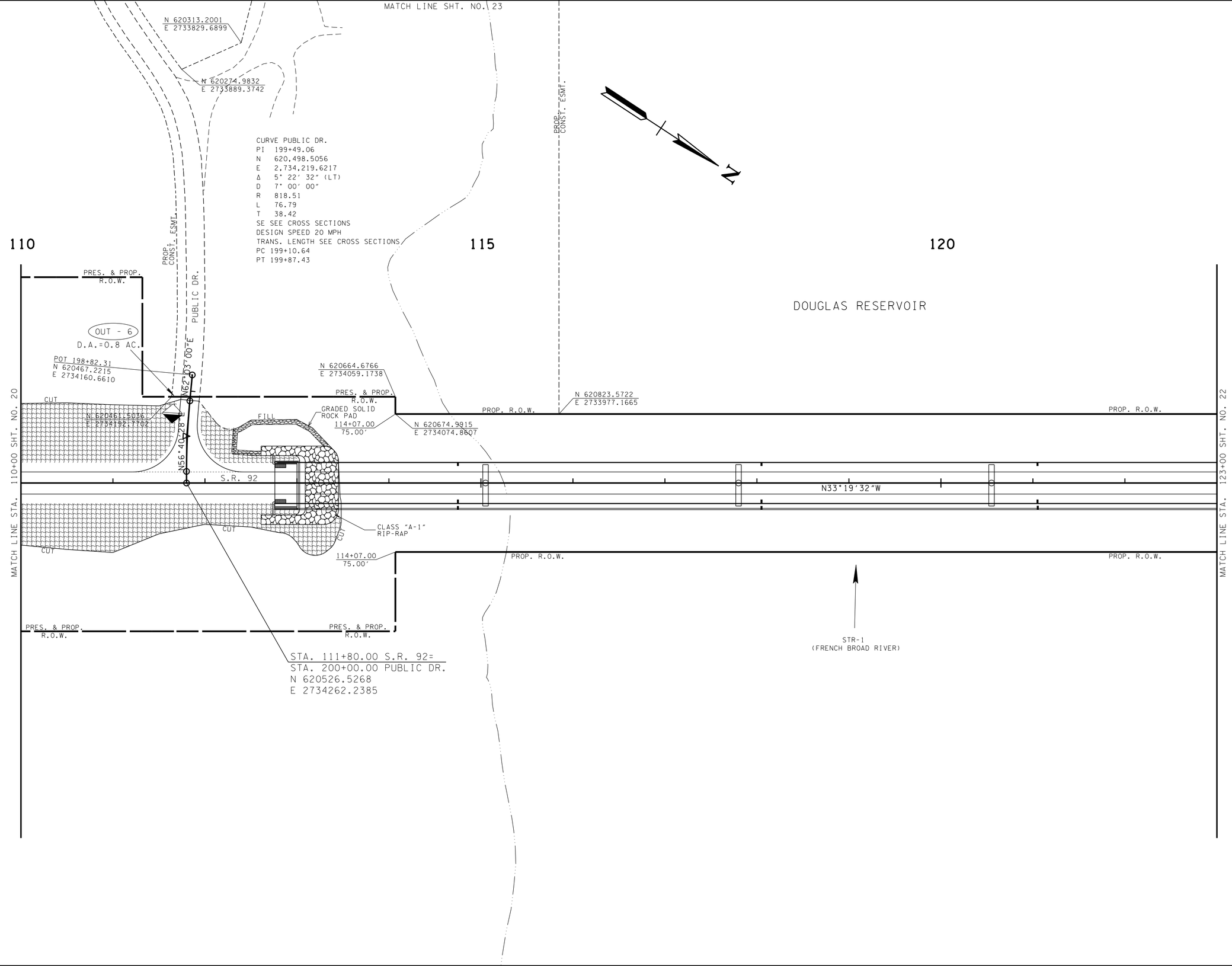
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	21
CONST.	2015	BR-STP-92(11)	21

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 3)

STA.110+00 TO STA.123+00

SCALE: 1"=50'

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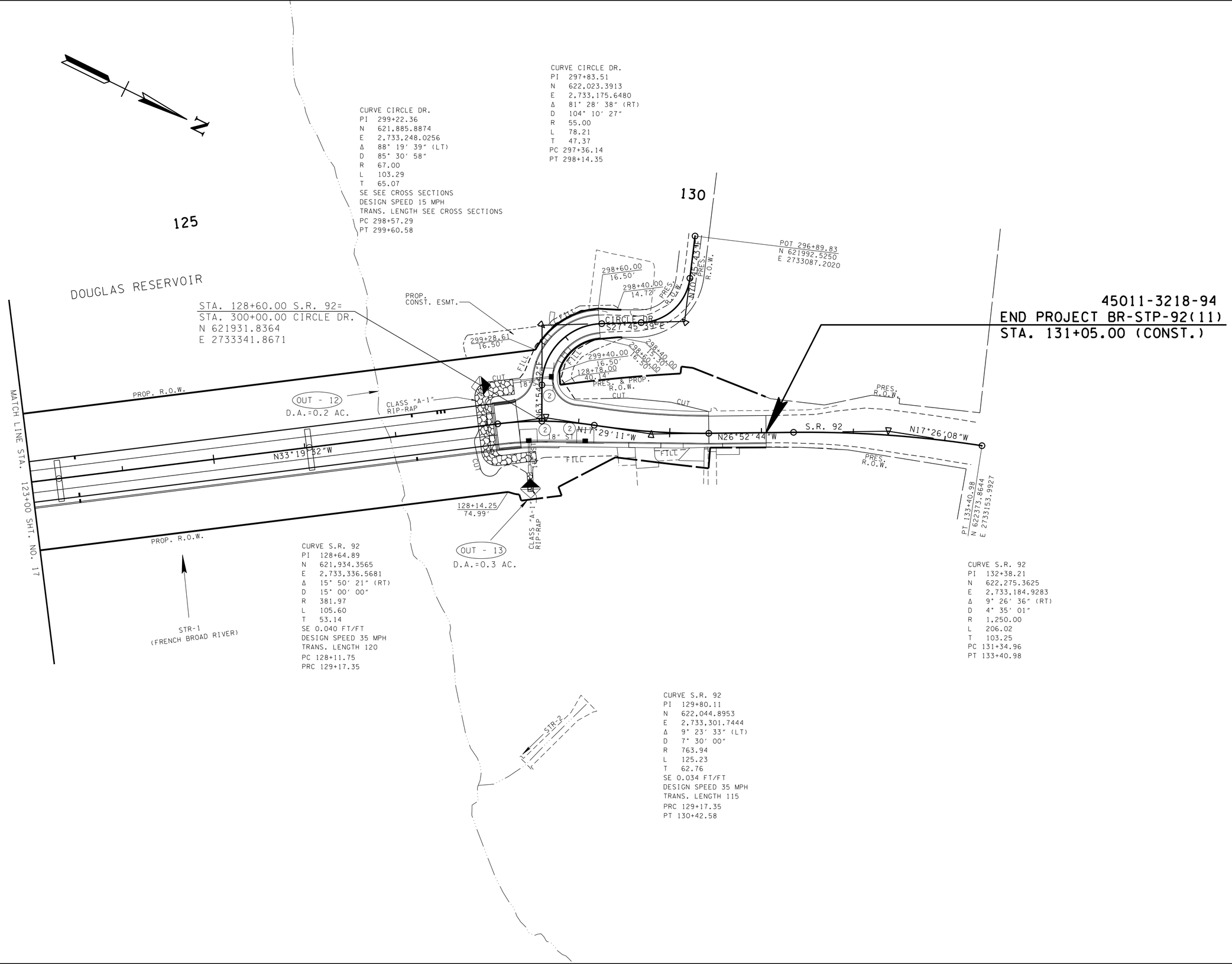
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	22
CONST.	2015	BR-STP-92(11)	22

S.R. 92 JEFFERSON COUNTY
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 3)

STA.123+00 TO STA.131+05

SCALE: 1"=50′

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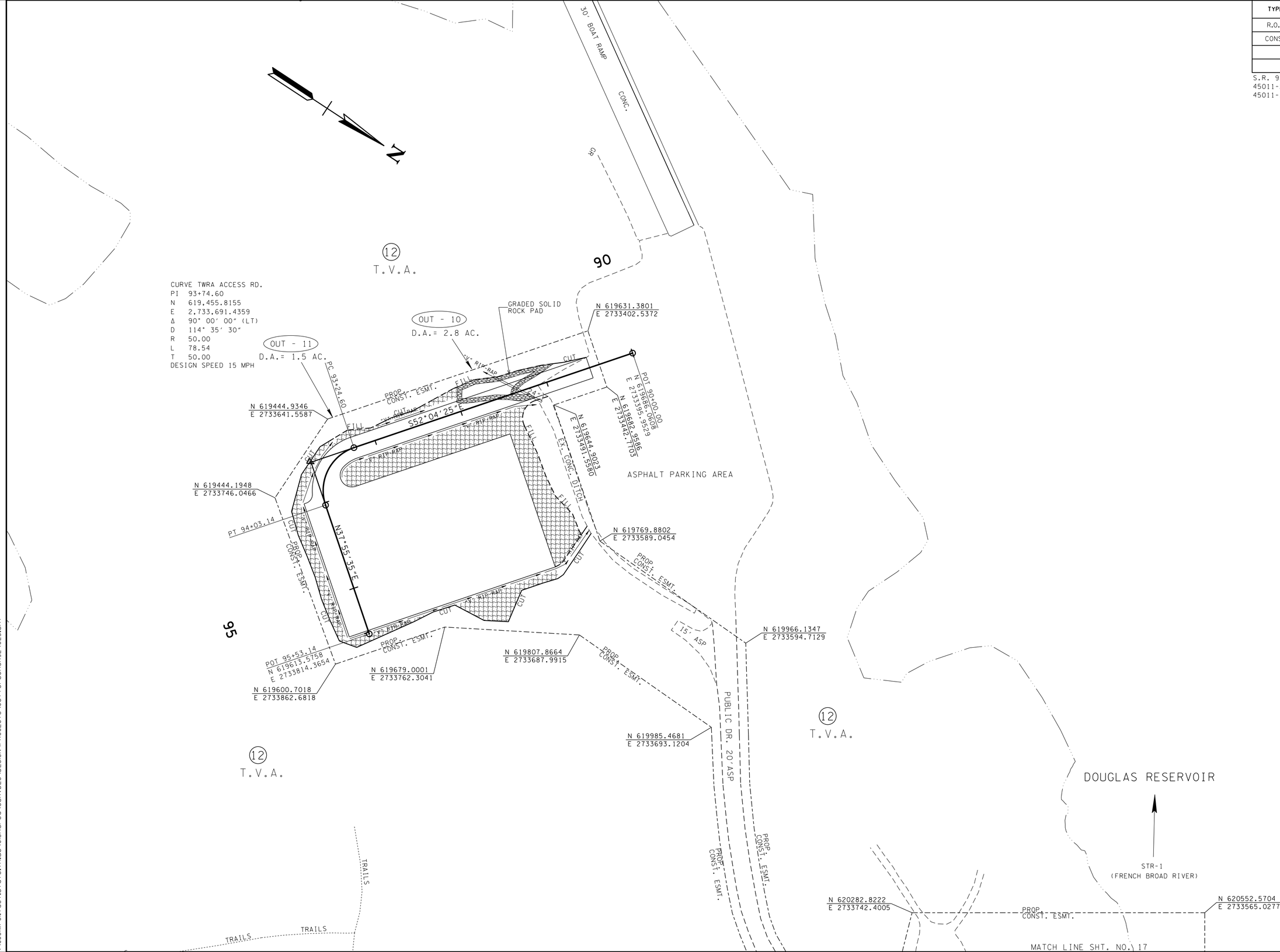
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	23
CONST.	2015	BR-STP-92(11)	23

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL PLAN (STAGE 3)

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	24

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)

"TRAFFIC CONTROL NOTES"

THE CONSTRUCTION SIGNING PLANS ARE TO SERVE AS A GUIDE ONLY, OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.

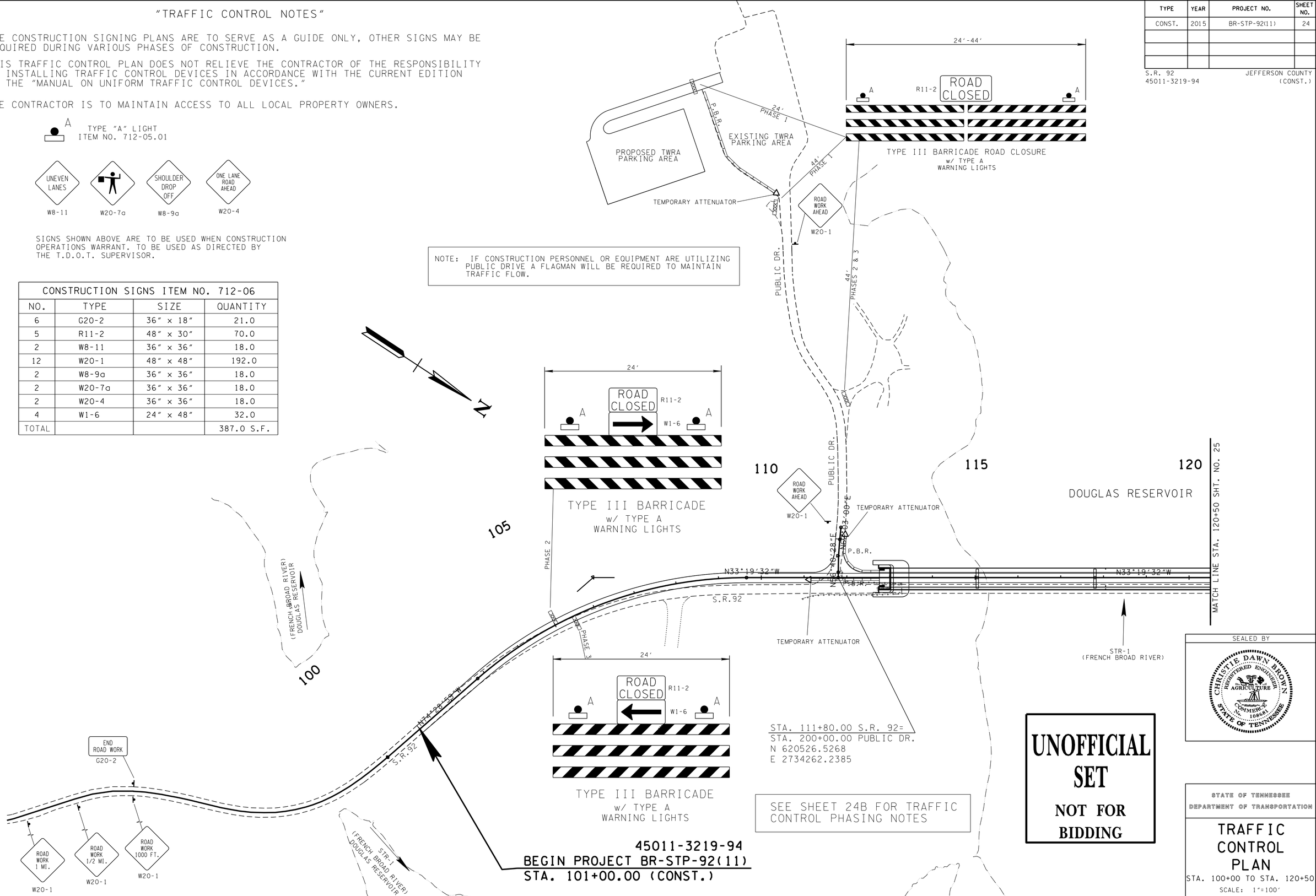
THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS.

SIGNS SHOWN ABOVE ARE TO BE USED WHEN CONSTRUCTION OPERATIONS WARRANT. TO BE USED AS DIRECTED BY THE T.D.O.T. SUPERVISOR.

CONSTRUCTION SIGNS ITEM NO. 712-06			
NO.	TYPE	SIZE	QUANTITY
6	G20-2	36" x 18"	21.0
5	R11-2	48" x 30"	70.0
2	W8-11	36" x 36"	18.0
12	W20-1	48" x 48"	192.0
2	W8-9a	36" x 36"	18.0
2	W20-7a	36" x 36"	18.0
2	W20-4	36" x 36"	18.0
4	W1-6	24" x 48"	32.0
TOTAL			387.0 S.F.

NOTE: IF CONSTRUCTION PERSONNEL OR EQUIPMENT ARE UTILIZING PUBLIC DRIVE A FLAGMAN WILL BE REQUIRED TO MAINTAIN TRAFFIC FLOW.



STA. 111+80.00 S.R. 92=
STA. 200+00.00 PUBLIC DR.
N 620526.5268
E 2734262.2385

SEE SHEET 24B FOR TRAFFIC CONTROL PHASING NOTES

45011-3219-94
BEGIN PROJECT BR-STP-92(11)
STA. 101+00.00 (CONST.)

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA. 100+00 TO STA. 120+50
SCALE: 1"=100'

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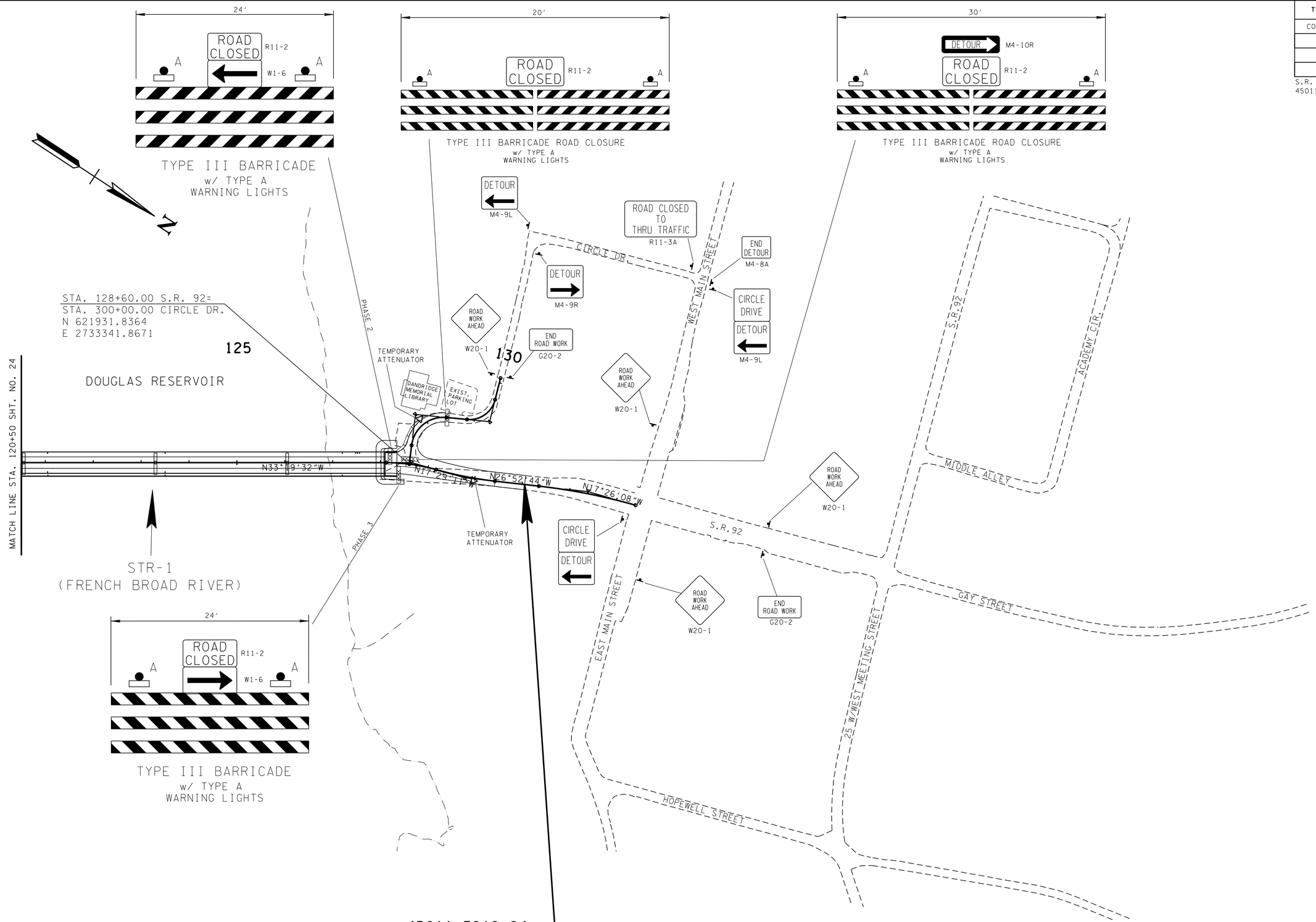
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BP-STP-92(11)	24A

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



SEE SHEET 24B FOR TRAFFIC CONTROL PHASING NOTES

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA. 120+50 TO STA. 131+05

SCALE: 1"=100'

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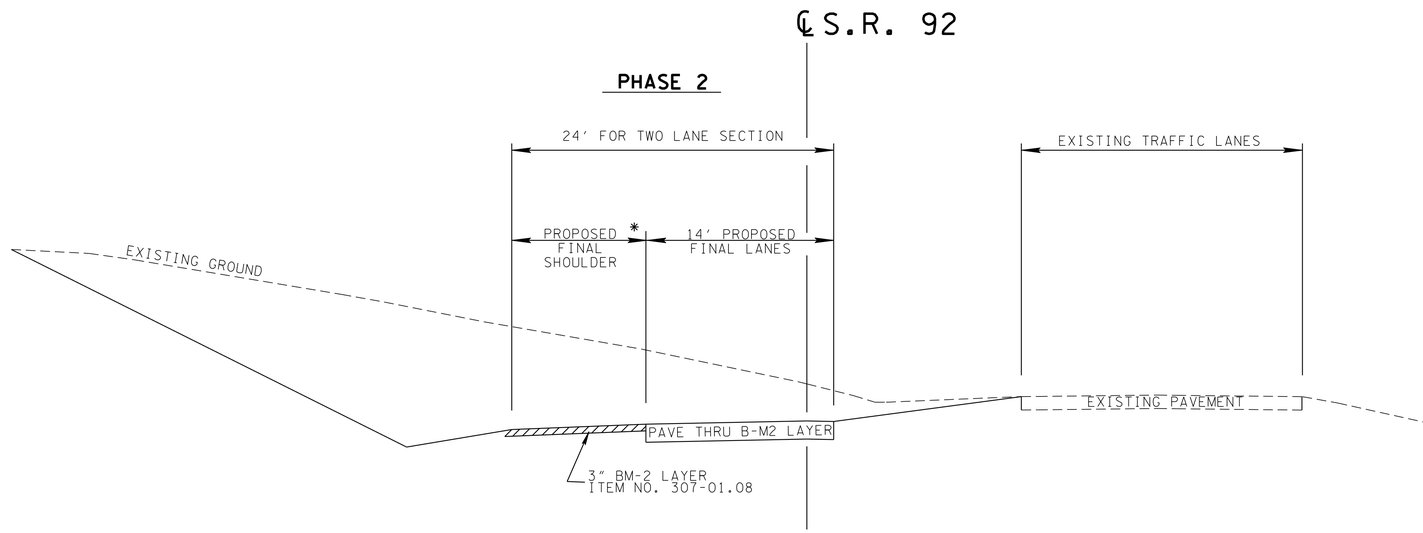
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	24B

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



* SHOULDER IS TO BE PAVED WITH BM-2 WHEN USED FOR MAINTENANCE OF TRAFFIC.

TRAFFIC CONTROL PHASING NOTES

PHASE 1: CONSTRUCT PROPOSED TWRA PARKING AREA.

PHASE 2: CONSTRUCT SOUTHERN PORTION OF S.R.92 BRIDGE. CONSTRUCT SOUTHWEST QUADRANT OF S.R.92 FROM STA. 101+00 TO STA. 113+00 TO LINES AND GRADES AS SHOWN ON THE CROSS-SECTIONS TO ALLOW FOR A 24' TWO LANE SECTION.

PAVE 14' OF THE PROPOSED FINAL LANES THROUGH THE BM-2 LAYER. THE PROPOSED SHOULDER WILL BE PAVED WITH 3" OF BM-2 FOR MAINTENANCE OF TRAFFIC.

CONSTRUCT NORTHWEST QUADRANT OF S.R.92 FROM STA. 128+10 TO STA. 131+05 TO ALLOW FOR A 24' TWO LANE SECTION TO LINES AND GRADES AS SHOWN ON THE CROSS-SECTIONS. CONSTRUCT CIRCLE DRIVE TO LINES AND GRADES AS SHOWN ON THE CROSS-SECTIONS.

DIVERT TRAFFIC TO THE NEWLY CONSTRUCTED LANES AND PROPOSED BRIDGE.

PHASE 3: DEMOLISH THE EXISTING BRIDGE AND COMPLETE THE CONSTRUCTION OF THE NORTHERN PORTION OF THE PROPOSED S.R.92 BRIDGE.

FINALIZE ROADWAY CONSTRUCTION OF S.R.92.

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	24C

S.R. 92 JEFFERSON CO.
45011-3219-94 (CONST.)

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.

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DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	20
CONST.	2015	BR-STP-92(11)	25

ESTIMATED LIGHTING QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	714-03	JACKED OR BORED CONDUIT	L.F.	90
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	320
	714-05.01	PULL BOXES (TYPE C)	EACH	4
	714-06.06	CABLE (1/C # 4 AWG)	L.F.	11560
(1)	714-06.11	CABLE (# 6 SOLID COPPER SOFT DRAWN) (GROUND)	L.F.	3530
	714-06.12	CABLE (# 6 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	350
(2)	714-08.09	LIGHT STANDARDS (12' DECORATIVE)	EACH	22
(3)	714-08.10	LIGHT STANDARDS (16' DECORATIVE)	EACH	2
(4)	714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	2
(5)	714-09.09	LUMINAIRES (100 WATT LED)	EACH	24
	714-12.01	CONTROL CENTER (NO. 1)	LS	1
(6)	714-25	ELECTRICAL CONNECTION	EACH	1

PAY ITEM FOOTNOTES

(1) INCLUDED FOR GROUNDING WITHIN STRUCTURES, SHALL BE SOLID COPPER, COLORED GREEN AND HAVE USE-2 RUGGEDIZED INSULATION.

(2) BRIDGE MOUNTED LIGHT STANDARDS SHALL BE 12 FT - 5 IN DIA. STRAIGHT, ALUMINUM POLE. USE WADSWORTH POLE, CATALOGUE NO. WDA 12 F5J 17 P07 ABG BK R138A. POLE AND BASE SHALL BE BLACK. ALSO, INCLUDES THE COST OF THE 3 INCH TENON.

(3) DECORATIVE LIGHT STANDARDS SHALL BE 16 FT - 5 IN DIA. STRAIGHT, ALUMINUM POLE. USE WADSWORTH POLE, CATALOGUE NO. WDA 16 F5J 17 P07 ABG BK R180A. POLE AND BASE SHALL BE BLACK. ALSO, INCLUDES THE COST OF THE 3 INCH TENON.

(4) SHALL BE CLASS 'A' CONCRETE FOUNDATION.

(5) DECORATIVE LUMINAIRE SHALL BE UTILITY WASHINGTON POSTLITE LED & # 174, 5000 SERIES CCT, HOLOPHANE CATALOGUE NO. WAUE 100 5K AS B 3 B 6 H, WITH AUTO-SENSING 120-277V OPERATION, 100W 525mA DRIVER, ASYMMETRIC TYPE III DISTRIBUTION. SPIKE FINIAL, BAND AND RIBS SHALL BE BLACK, AND SHALL HAVE NEMA TWISTLOCK PHOTOCONTROL RECEPTACLE. INCLUDES THE COST OF THE PHOTOCELL. BASED ON PHOTOMETRIC DATA FILE, WSE_STLE_100_5K_XX_X_3XXX.IES; TOTAL LUMENS = 8,471.

(6) THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE AND THE DISCONNECT. THESE CHARGES SHALL BE INCLUDED IN THE BID FOR THIS ITEM. ALSO, INCLUDES THE COST OF ALL APPURTENANCES FOR A COMPLETE SERVICE INSTALLATION, INCLUDING TRANSFORMERS, AS REQUIRED.

LIGHTING NOTES

(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED MARCH 1, 2006 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(2) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(3) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

SPECIAL LIGHTING NOTES

(4) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SOLID COPPER, AND COLORED GREEN.

(5) ALL CONDUITS SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED IN THE PLANS.

(6) SOME UTILITIES MAY REQUIRE LOCATION BY HAND DIGGING PRIOR TO PROPOSED LIGHT POLE INSTALLATION.

(7) CABLES FOR STREET LIGHTING SHALL BE INSTALLED IN CONDUIT AND PULL BOXES INDEPENDENT OF ANY OTHER SYSTEM.

(8) FINAL LOCATION OF POWER SOURCE WILL BE CONFIRMED PRIOR TO CONSTRUCTION.

(9) POLE LOCATION ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER.

(10) 12-FOOT DECORATIVE STANDARDS SHALL BE DESIGNED FOR 90-MPH WIND PRESSURE AND SHALL SUPPORT A 65-POUND LUMINAIRE ON A 3 INCH TENON.

(11) 16-FOOT DECORATIVE STANDARDS SHALL BE DESIGNED FOR 90-MPH WIND PRESSURE AND SHALL SUPPORT A 65-POUND LUMINAIRE ON A 3 INCH TENON.

(12) THE LIGHTING SYSTEM SHALL OPERATE ON A 120/240 VOLT SINGLE PHASES 3-WIRE FEED (2-HOT, 1-NEUTRAL) WITH CONSECUTIVE LUMINAIRES BEING CONNECTED ALTERNATING BETWEEN PHASE "A" AND "B". THE NEUTRAL IS COMMON TO EACH PHASE. CONTRACTOR SHALL BALANCE PHASES AS MUCH AS POSSIBLE. THE LUMINAIRES SHALL BE BALLASTED FOR 120 VOLT OPERATION.

(13) FOR ELECTRICAL CONNECTION, CONTACT JOE McCARTER, APPALACHIAN ELECTRIC COOP, (865) 475-2032, EXT. 1051.

(14) PROPOSED DECORATIVRE LUMINAIRES LP 1 THRU LP 11 AND LP 13 THRU LP 23 SHALL BE MOUNTED ON BRIDGE FOOTINGS PER TDOT STD. DWG. STD-8-2SS.

GROUND RODS NOTES

(15) USE TWO (2) 5/8" X 8' COPPER PLATED GROUND RODS JOINED END TO END, USING A THREADLESS GROUND ROD COUPLING, EMBEDDED IN THE GROUND FOR EACH GALVANIZED STEEL LIGHT POLE. EQUIPMENT BEING GROUNDED SHALL BE BONDED TO THE GROUND RODS USING A #6 SOLID BARE COPPER WIRE AND A 5/8" THREADLESS GROUND ROD CLAMP.

(16) FOR GROUNDING WITHIN STRUCTURES, USE TWO (2) 5/8" X 8' COPPER PLATED GROUND RODS JOINED END TO END, USING A THREADLESS GROUND ROD COUPLING, EMBEDDED IN THE GROUND AT EACH END OF THE STRUCTURE. EQUIPMENT BEING GROUNDED SHALL BE BONDED TO THE GROUND RODS USING A #6 SOLID BARE COPPER WIRE AND A 5/8" THREADLESS GROUND ROD CLAMP.

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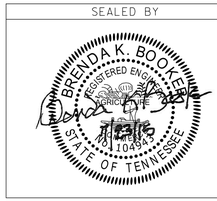

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED LIGHTING QUANTITIES AND NOTES

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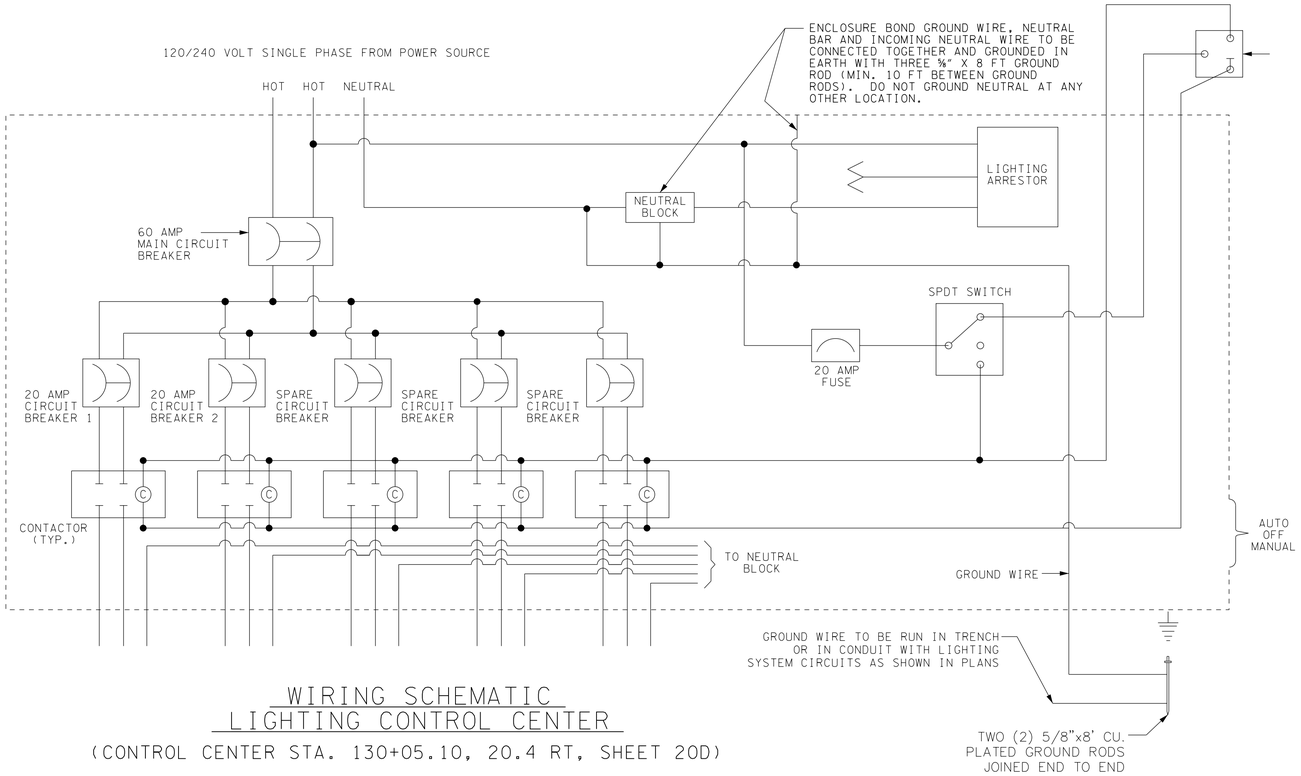
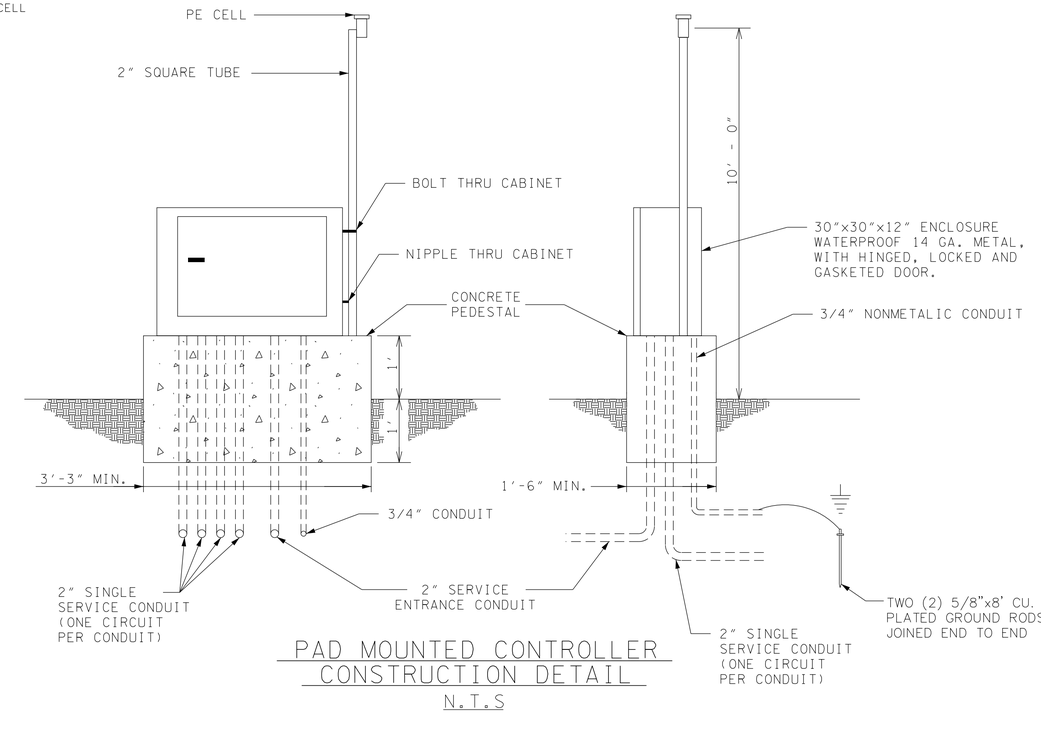
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	20A
CONST.	2015	BR-STP-92(11)	25A



WIRING SCHEMATIC
LIGHTING CONTROL CENTER

(CONTROL CENTER STA. 130+05.10, 20.4 RT, SHEET 20D)



PAD MOUNTED CONTROLLER
CONSTRUCTION DETAIL

N.T.S

CONTROL CENTER NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL AND INSTALLATION UP TO AND INCLUDING WEATHERHEAD.
2. CONTRACTOR SHALL INSTALL A 60 AMP DISCONNECT FOR THE CONTROL CENTER AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR TO COORDINATE FINAL LOCATION OF CONTROL CENTER WITH THE ENGINEER.
4. FOR ELECTRICAL SERVICE CONNECTION, CONTACT, MR. JOSEPH McCARTER, APPALACHIAN ELECTRIC COOPERATIVE, (865) 465-2032. MR. JOSEPH McCARTER MAY ALSO BE CONTACTED FOR POWER SERVICE EQUIREMENTS AND COST.
5. LIGHTING SYSTEM SHALL BE 120/240 VOLT SINGLE PHASE SERVICE. LUMINAIRES SHALL BE BALLASTED FOR 120 VOLT OPERATION.
6. THE CONTRACTOR SHALL BALANCE THE LOADS ON EACH CIRCUIT.
7. THE PHOTO ELECTRIC CELL SHALL BE LOCATED AT THE CONTROL CENTER.
8. THE CONTROL CABINET SHALL BE INSTALLED IN SUCH A MANNER AS TO MAINTAIN A STANDING WORKING HEIGHT. PERSONNEL WORKING ON THE CABINET SHALL BE ABLE TO WORK ON THE CABINET WHILE STANDING.

UNOFFICIAL SET

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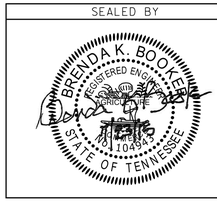

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONTROL CENTER DETAILS

SCALE: NONE

7/22/2015 5:58:40 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	20B
CONST.	2015	BR-STP-92(11)	25B

LIGHT POLE SCHEDULE

LIGHT POLE NO.	SHEET NO.	LAMP WATTAGE (LED)	VOLTAGE	LUMINAIRE TYPE	NO. OF LAMPS	CONTROL CENTER NO.	CIRCUIT NO.	MOUNTING HEIGHT FT	BASELINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
LP 1	25C	100	120/240	A	1	1	1	17	SR 92	113+40	BRIDGE PARAPET	RT	NA	NA
LP 2	25C	100	120/240	A	1	1	1	17	SR 92	115+05	BRIDGE PARAPET	RT	NA	NA
LP 3	25C	100	120/240	A	1	1	1	17	SR 92	116+42	BRIDGE PARAPET	RT	NA	NA
LP 4	25C	100	120/240	A	1	1	1	17	SR 92	117+80	BRIDGE PARAPET	RT	NA	NA
LP 5	25C	100	120/240	A	1	1	1	17	SR 92	119+17	BRIDGE PARAPET	RT	NA	NA
LP 6	25C	100	120/240	A	1	1	1	17	SR 92	120+55	BRIDGE PARAPET	RT	NA	NA
LP 7	25C	100	120/240	A	1	1	1	17	SR 92	121+92	BRIDGE PARAPET	RT	NA	NA
LP 8	25D	100	120/240	A	1	1	1	17	SR 92	123+30	BRIDGE PARAPET	RT	NA	NA
LP 9	25D	100	120/240	A	1	1	1	17	SR 92	124+67	BRIDGE PARAPET	RT	NA	NA
LP 10	25D	100	120/240	A	1	1	1	17	SR 92	126+05	BRIDGE PARAPET	RT	NA	NA
LP 11	25D	100	120/240	A	1	1	1	17	SR 92	127+43	BRIDGE PARAPET	RT	NA	NA
LP 12	25D	100	120/240	A	1	1	1	17	SR 92	129+05	27.5	RT	621982.2772	2733350.4519
LP 13	25C	100	120/240	A	1	1	2	17	SR 92	113+40	BRIDGE PARAPET	LT	NA	NA
LP 14	25C	100	120/240	A	1	1	2	17	SR 92	115+05	BRIDGE PARAPET	LT	NA	NA
LP 15	25C	100	120/240	A	1	1	2	17	SR 92	116+42	BRIDGE PARAPET	LT	NA	NA
LP 16	25C	100	120/240	A	1	1	2	17	SR 92	117+80	BRIDGE PARAPET	LT	NA	NA
LP 17	25C	100	120/240	A	1	1	2	17	SR 92	119+17	BRIDGE PARAPET	LT	NA	NA
LP 18	25C	100	120/240	A	1	1	2	17	SR 92	120+55	BRIDGE PARAPET	LT	NA	NA
LP 19	25C	100	120/240	A	1	1	2	17	SR 92	121+92	BRIDGE PARAPET	LT	NA	NA
LP 20	25D	100	120/240	A	1	1	2	17	SR 92	123+30	BRIDGE PARAPET	LT	NA	NA
LP 21	25D	100	120/240	A	1	1	2	17	SR 92	124+67	BRIDGE PARAPET	LT	NA	NA
LP 22	25D	100	120/240	A	1	1	2	17	SR 92	126+05	BRIDGE PARAPET	LT	NA	NA
LP 23	25D	100	120/240	A	1	1	2	17	SR 92	127+43	BRIDGE PARAPET	LT	NA	NA
LP 24	25D	100	120/240	A	1	1	2	17	SR 92	129+00	26.5	LT	621958.9848	2733301.5069

A = LED DECORATIVE LUMINAIRE

WIRING AND CONDUIT SCHEDULE

RUN NO.	POLE NO. TO POLE NO.			TRENCHED CONDUIT LENGTH (FT)	CONDUIT IN BRIDGE PARAPET (2) (FT)	JACK & BORE CONDUIT LENGTH (FT)	CABLE LENGTH (FT)	SPECIAL NOTES	CONTROL CENTER NO.	CIRCUIT NO.	NO. OF 2" SCH. 40 PVC CONDUIT (1)	NO. & SIZE OF WIRE
1	CC1	TO	LP 2 THRU LP 11	125	1390	40	1555		CC1	1	1	3 @ #4 AWG 1 @ #6 GROUND
	CC1	TO	LP 14 THRU LP 23	195	1390	50	1635		CC1	2		
2	LP 2	TO	LP 1		170		170		CC1	1	1	2 @ #4 AWG 1 @ #6 GROUND
	LP 14	TO	LP 13		170		170		CC1	2		

(1) MAX ALLOWABLE FILL = 40%
(2) CONDUIT INCLUDED WITH THE STRUCTURES ITEMS.

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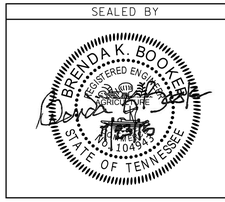

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE LIGHTING DETAILS
(POLE & WIRING DATA)

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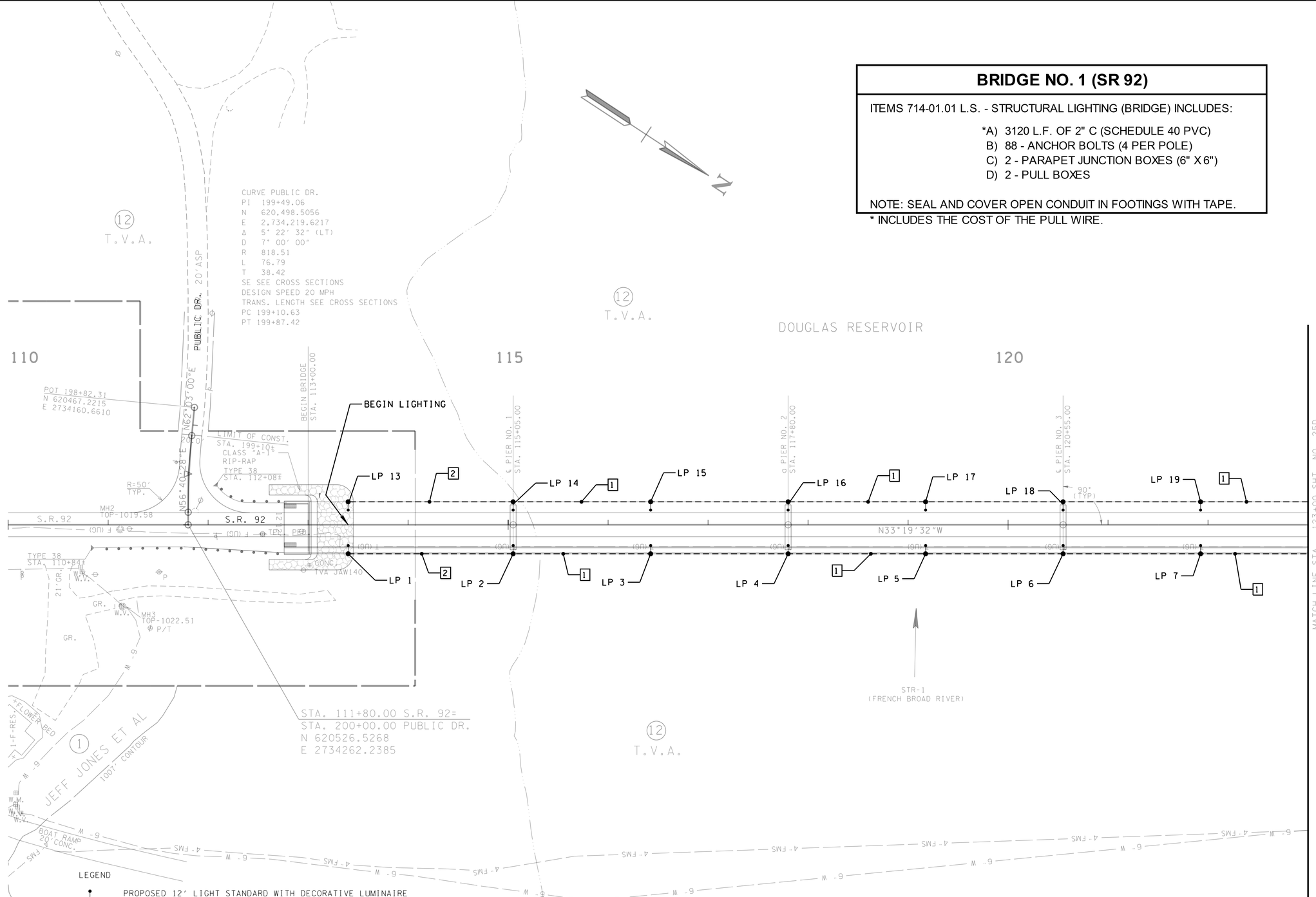
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	20C
CONST.	2015	BR-STP-92(11)	25C

BRIDGE NO. 1 (SR 92)

ITEMS 714-01.01 L.S. - STRUCTURAL LIGHTING (BRIDGE) INCLUDES:

*A) 3120 L.F. OF 2" C (SCHEDULE 40 PVC)
B) 88 - ANCHOR BOLTS (4 PER POLE)
C) 2 - PARAPET JUNCTION BOXES (6" X 6")
D) 2 - PULL BOXES

NOTE: SEAL AND COVER OPEN CONDUIT IN FOOTINGS WITH TAPE.
* INCLUDES THE COST OF THE PULL WIRE.



LEGEND

- PROPOSED 12' LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17' MH, 100W LED, WIRED FOR 120/240V OPERATION)
- PROPOSED 16' LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17' MH, 100W LED, WIRED FOR 120/240V OPERATION)
- PROPOSED LIGHTING PULL BOX (INCLUDED WITH LIGHTING ITEMS)
- PROPOSED LIGHTING PULL BOX (INCLUDED WITH STRUCTURES ITEMS)
- PROPOSED JUNCTION BOX (6" X 6") (INCLUDED WITH STRUCTURES ITEMS)
- EXISTING [PROPOSED] LIGHTING CONDUIT (2" PVC, SCHEDULE 40)
- CONDUIT RUN NUMBER (SEE SHEET 25B)

LIGHTING NOTES:

1. PROPOSED DECORATIVRE LUMINAIRES LP 1 THRU LP 11 AND LP 13 THRU LP 23 SHALL BE MOUNTED ON BRIDGE FOOTINGS PER TDOT STD. DWG. STD-8-2SS.
2. ANY CONDUIT, ANCHOR BOLTS, PULL BOXES, AND JUNCTION BOXES INTEGRAL TO THE BRIDGE PARAPET/RAIL SHALL BE INSTALLED DURING ITS CONSTRUCTION. THE COST FOR THESE ITEMS SHALL BE INCLUDED IN LUMP SUM STRUCTURAL LIGHTING PAY ITEM 714-01.01 INCLUDED WITH THE STRUCTURES PAY ITEMS.

UNOFFICIAL SET

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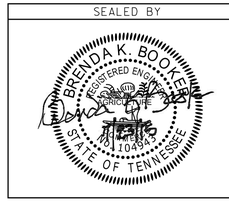

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE LIGHTING LAYOUT

STA.110+00 TO STA.123+00

SCALE: 1" = 50'

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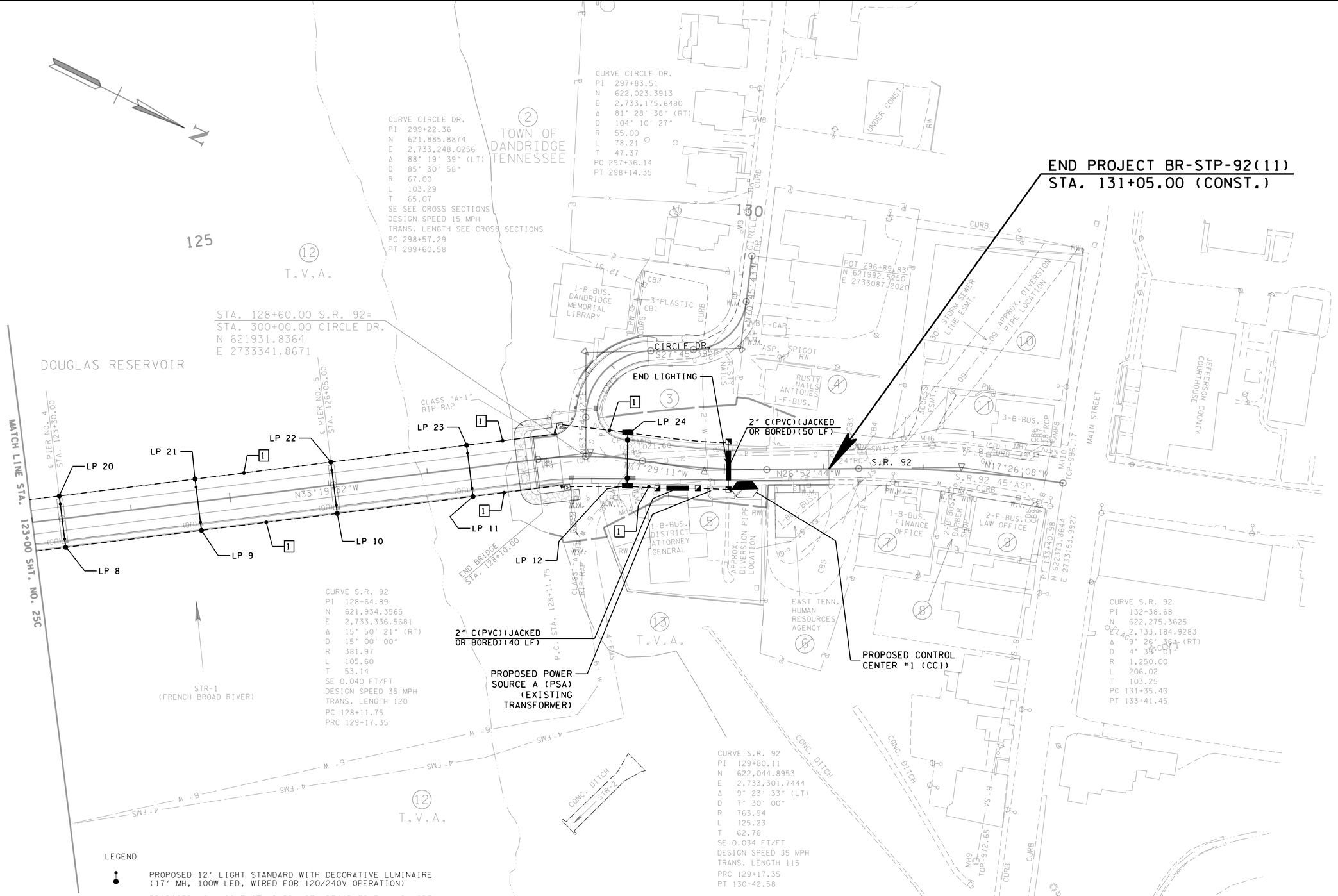
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	20D
CONST.	2015	BR-STP-92(11)	25D



LEGEND

- PROPOSED 12′ LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17′ MH, 100W LED, WIRED FOR 120/240V OPERATION)
- PROPOSED 16′ LIGHT STANDARD WITH DECORATIVE LUMINAIRE (17′ MH, 100W LED, WIRED FOR 120/240V OPERATION)
- PROPOSED LIGHTING PULL BOX (INCLUDED WITH LIGHTING ITEMS)
- PROPOSED LIGHTING PULL BOX (INCLUDED WITH STRUCTURES ITEMS)
- PROPOSED JUNCTION BOX (6″ X 6″) (INCLUDED WITH STRUCTURES ITEMS)
- [ ] EXISTING [PROPOSED] LIGHTING CONDUIT (2″ PVC, SCHEDULE 40)
- [1] CONDUIT RUN NUMBER (SEE SHEET 25B)

LIGHTING NOTES:

1. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN AREAS WHERE CONDUIT INSTALLATION IS NEAR OR CROSSES A WATER MAIN.
2. PRIOR TO ANY WORK NEAR THE WATER MAINS, THE CONTRACTOR SHALL CONTACT MR. MIKE NORTON, TOWN OF DANDRIDGE WATER, (865) 397-3696, AT LEAST ONE WEEK IN ADVANCE TO COORDINATE THE PROJECT WORK.
3. AS DIRECTED BY THE ENGINEER, IN AREAS SHOWN FOR JACKED OR BORED CONDUIT, THE CONTRACTOR MAY SAW-CUT IF POSSIBLE.

UNOFFICIAL SET

NOT FOR BIDDING

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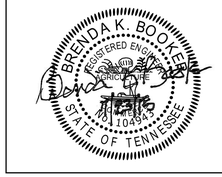

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE LIGHTING LAYOUT

STA.123+00 TO STA.131+05

SCALE: 1″ = 50′

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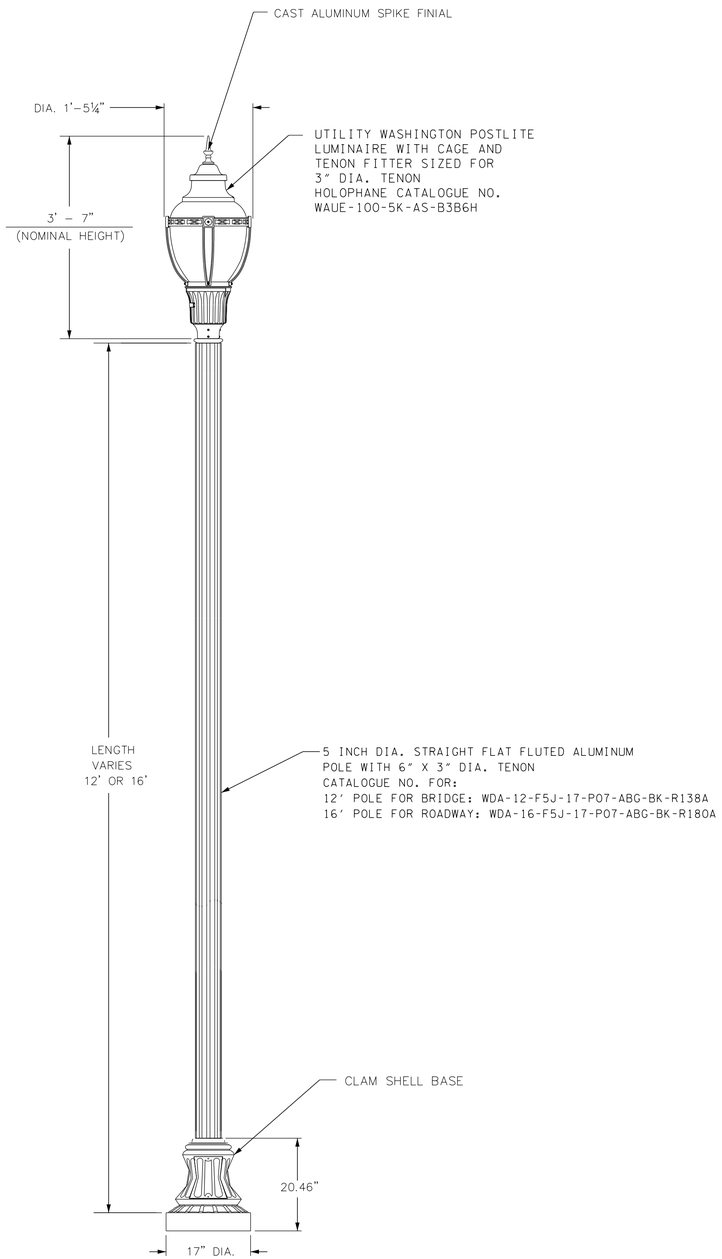
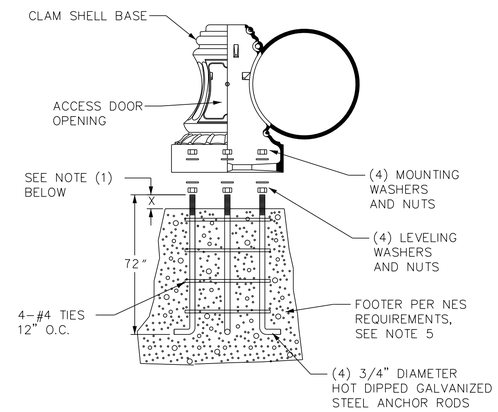
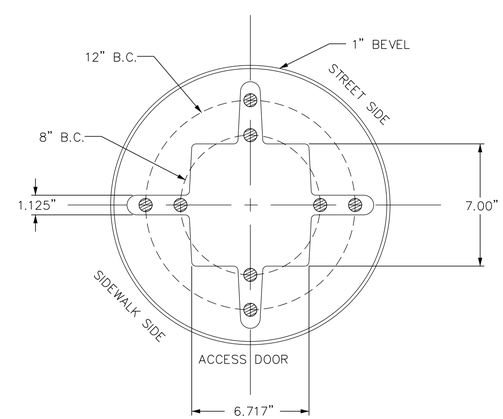
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	20E
CONST.	2015	BR-STP-92(11)	25E

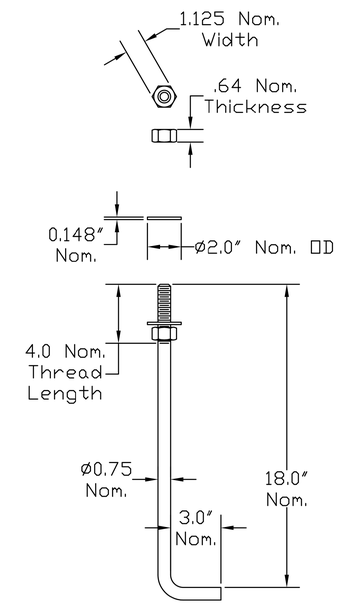


ENHANCED WASHINGTON POSTLITE (100W LED)
DECORATIVE POLE AND LUMINAIRE DETAIL
N.T.S.





WASHINGTON POSTLITE POLE BASE
AND BOLT CIRCLE DETAIL
(ROADWAY ONLY)
N.T.S.



ANCHOR BOLT DETAIL
N.T.S.

NOTES

1. POLE MANUFACTURER RECOMMENDS USING LEVELING NUTS TO MOUNT POST BASE. IF FOUNDATION IS NOT LEVEL, INCREASE "X" DIMENSION ACCORDINGLY WHEN USING LEVELING NUTS WITH WASHERS.

   X = 2¾" WITH LEVELING NUTS

2. IF USING GROUTING TO CONCEAL GAP BETWEEN BASE AND FOUNDATION, ALLOW FOR WATER DRAINAGE.
3. POLE MANUFACTURER SHALL SUPPLY TEMPLATE FOR BOLT PATTERN.
4. POLE INSTALLATION AS PER POLE MANUFACTURER RECOMMENDATION.
5. CONCRETE FOUNDATION SHALL HAVE A 6 FOOT MIN. DEPTH FOOTING WITH A 24 INCH MIN. DIAMETER.
6. FOR POLE INSTALLATION ON THE BRIDGE, SEE STD. DWG STD-8-2SS AND REFER TO THE BRIDGE PLANS FOR BOTH THE LEFT SIDE AND RIGHT SIDE ATTACHMENTS TO THE BRIDGE.

FOR REFERENCE ONLY

UNOFFICIAL SET
NOT FOR BIDDING

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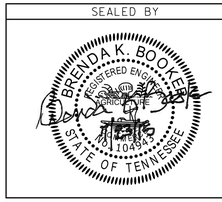

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE LIGHTING DETAILS

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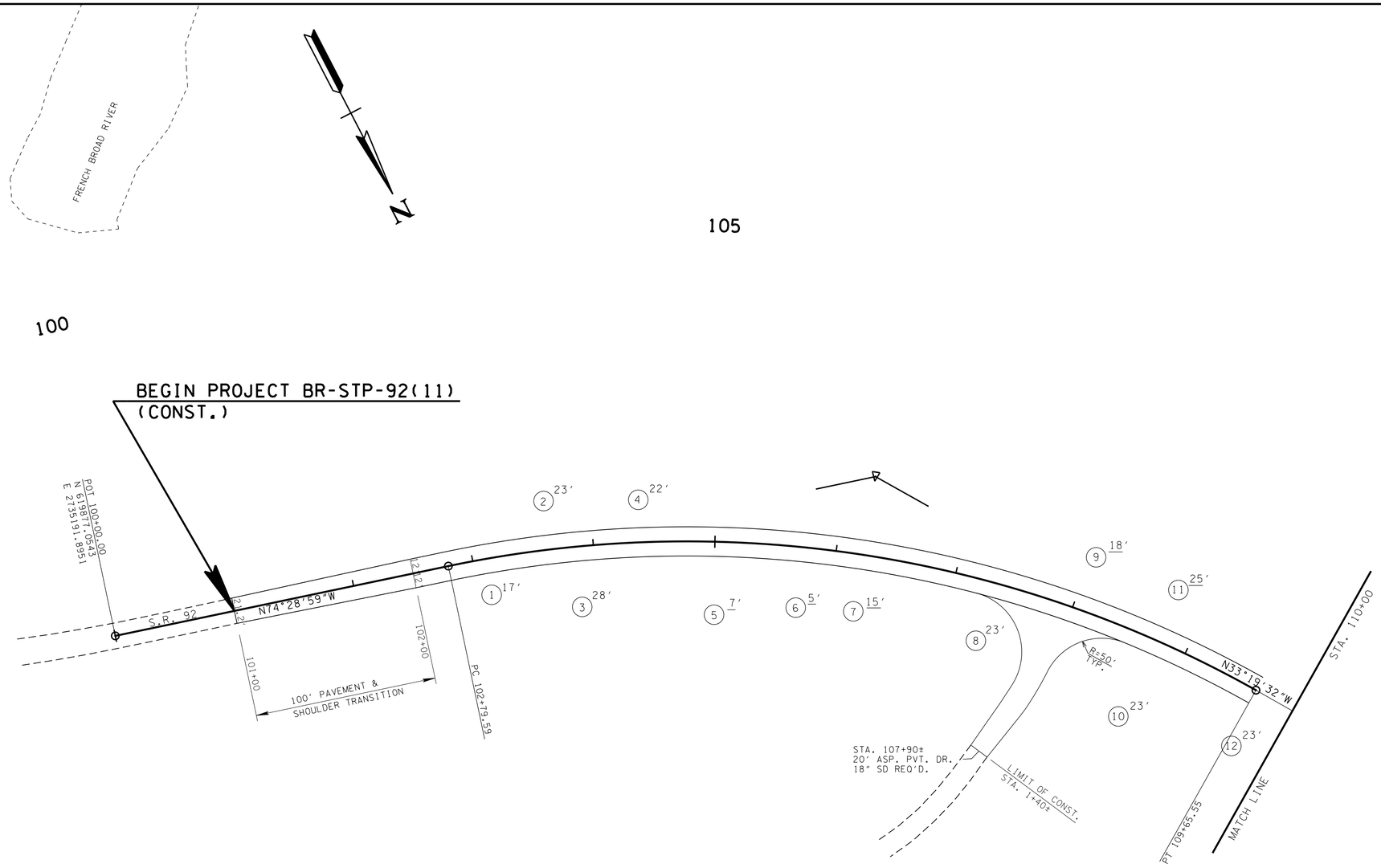
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



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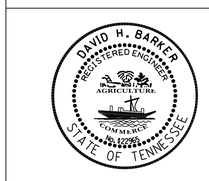

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 92
BRIDGE AND APPROACHES
OVER
FRENCH BROAD RIVER
STA.101+00 TO STA.110+00
JEFFERSON COUNTY

7/22/2015 9:09:00 AM
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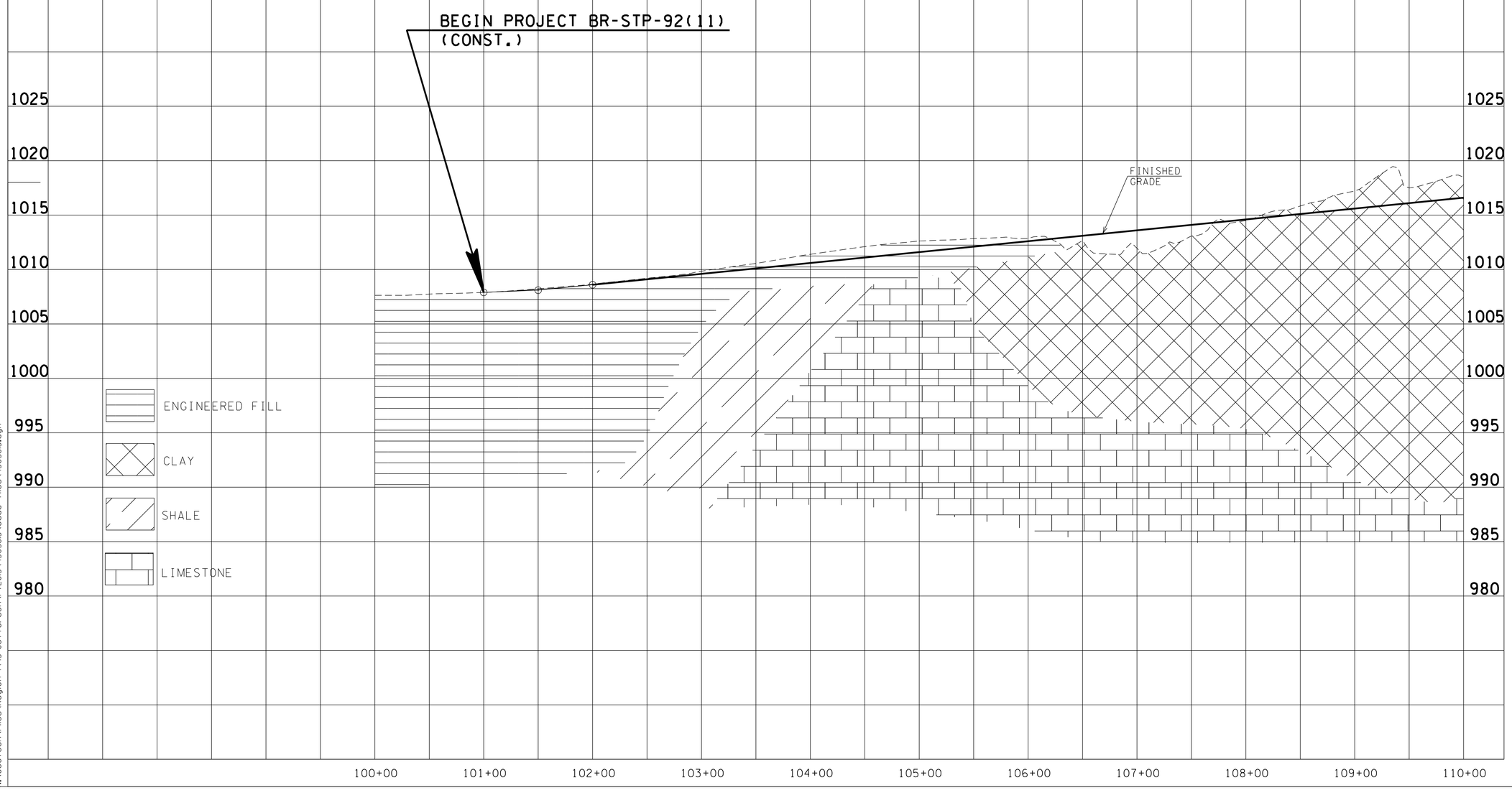
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26A

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 112061
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 92
BRIDGE AND APPROACHES
OVER
FRENCH BROAD RIVER
STA.101+00 TO STA.110+00
JEFFERSON COUNTY

7/22/2015 9:13:39 AM
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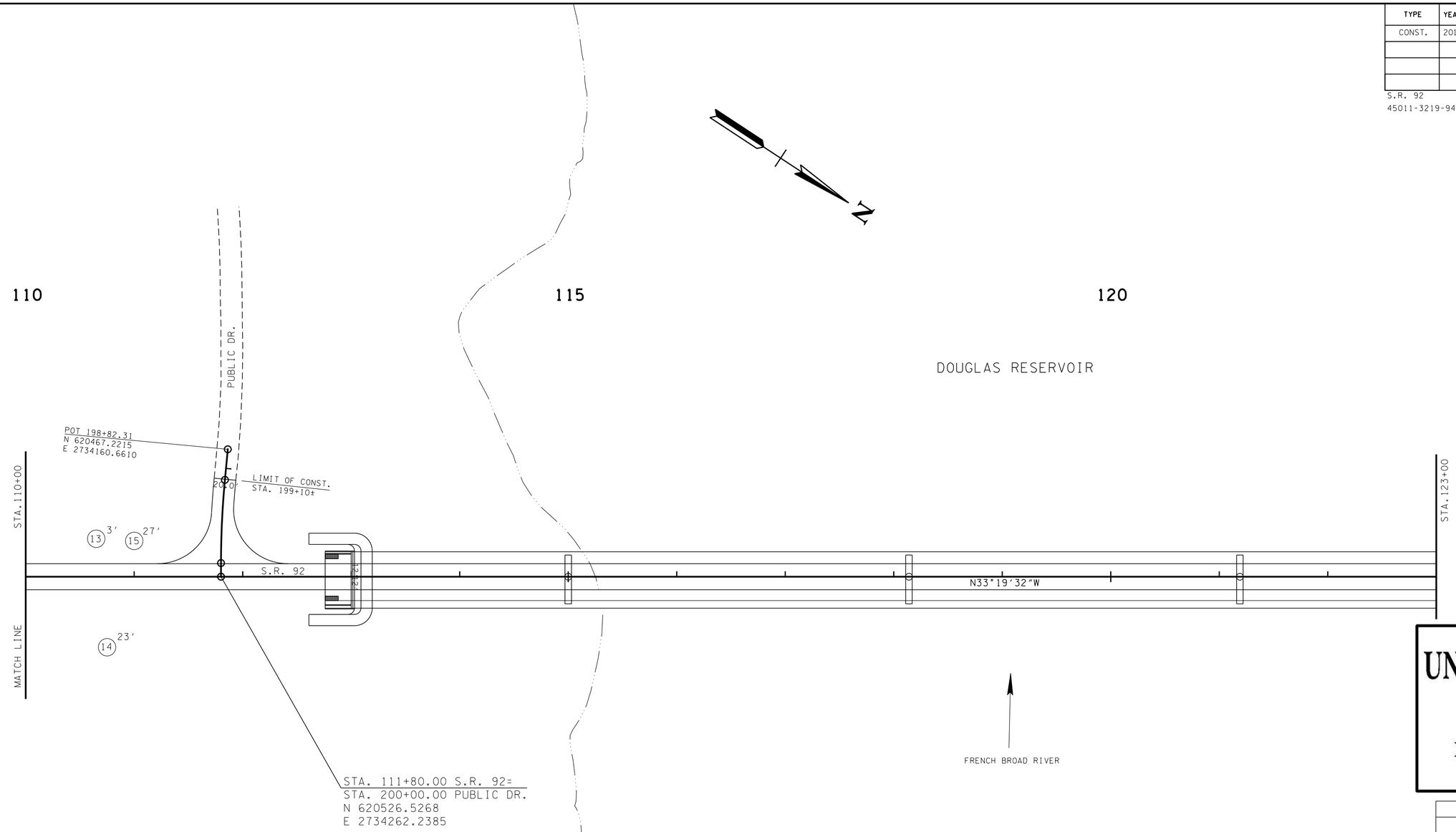
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26B

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



HOLE NO.	SAMPLE NO.	DESCRIPTION	DENSITY	OPTIMUM MOISTURE	MOISTURE RANGE	LL	PL	AASHTO CLASS	USCS CLASS	CBR
13	CBR-1	CLAY- REDDISH YELLOW,SILTY	89.3	22	7.5-40	37	30	A-4	ML	12
14	1	CLAY- REDDISH YELLOW,SILTY	95.0	25	22.0-28.8	56	30	A-7-5	CH	----

UNOFFICIAL SET

NOT FOR BIDDING

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DAVID H. BARKER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102063
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 92
BRIDGE AND APPROACHES
OVER
FRENCH BROAD RIVER
STA.110+00 TO STA.123+00
JEFFERSON COUNTY

7/22/2015 9:17:38 AM
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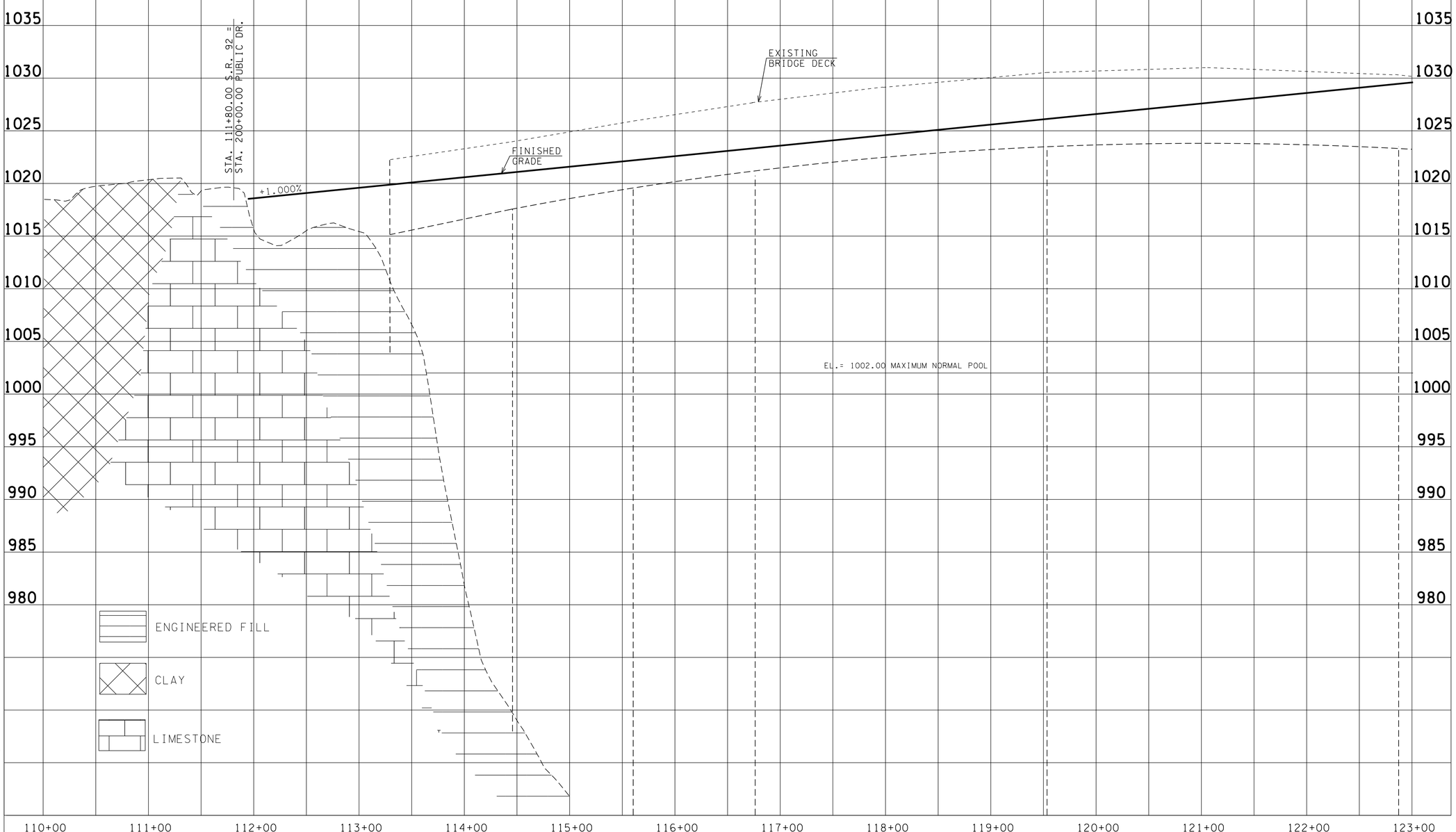
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26C

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



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UNOFFICIAL SET

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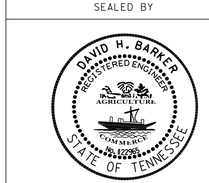


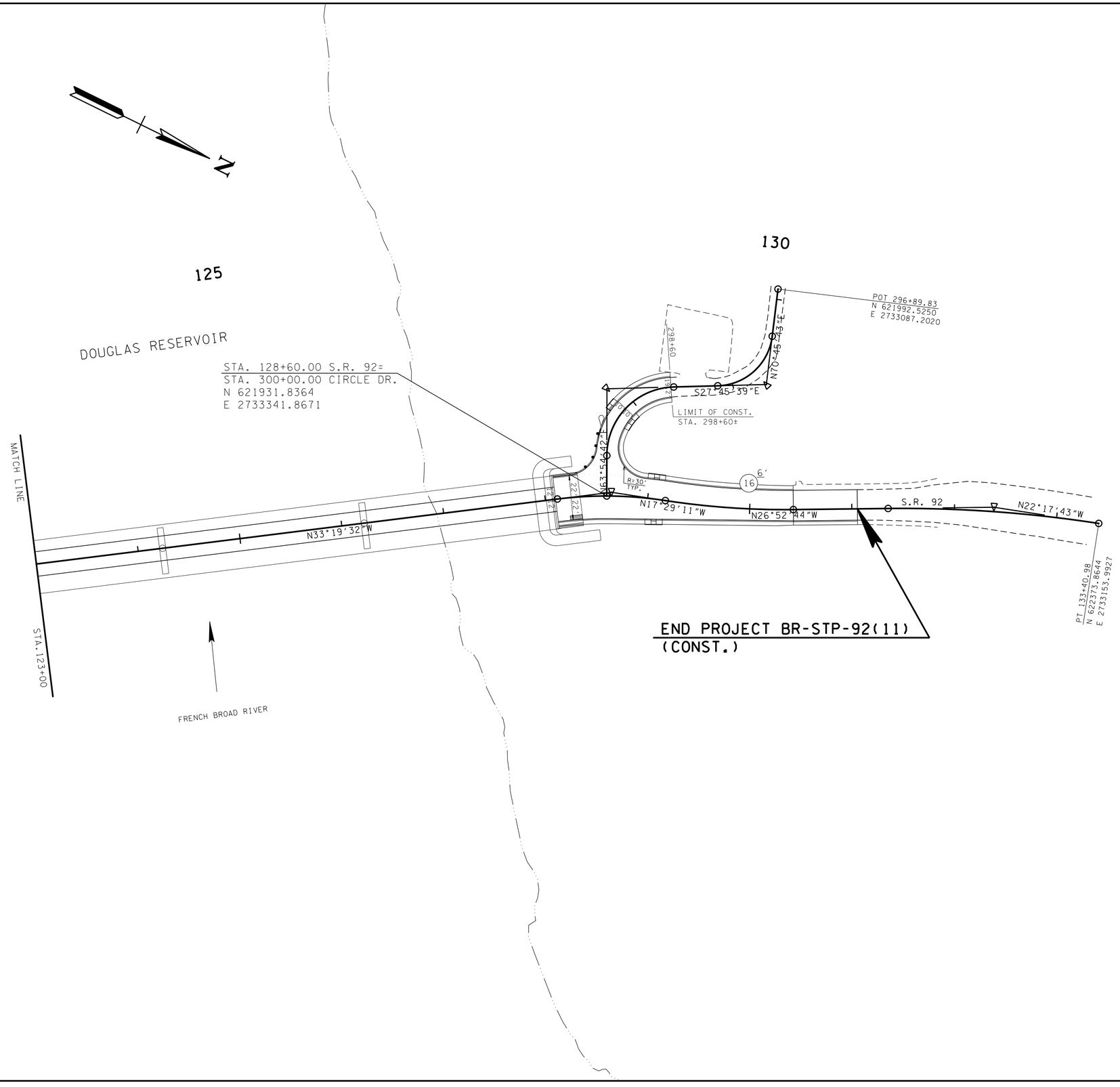
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 92
BRIDGE AND APPROACHES
OVER
FRENCH BROAD RIVER
STA.110+00 TO STA.123+00
JEFFERSON COUNTY

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26D

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 92
BRIDGE AND APPROACHES
OVER
FRENCH BROAD RIVER
STA.123+00 TO STA.131+05
JEFFERSON COUNTY

7/22/2015 9:39:21 AM
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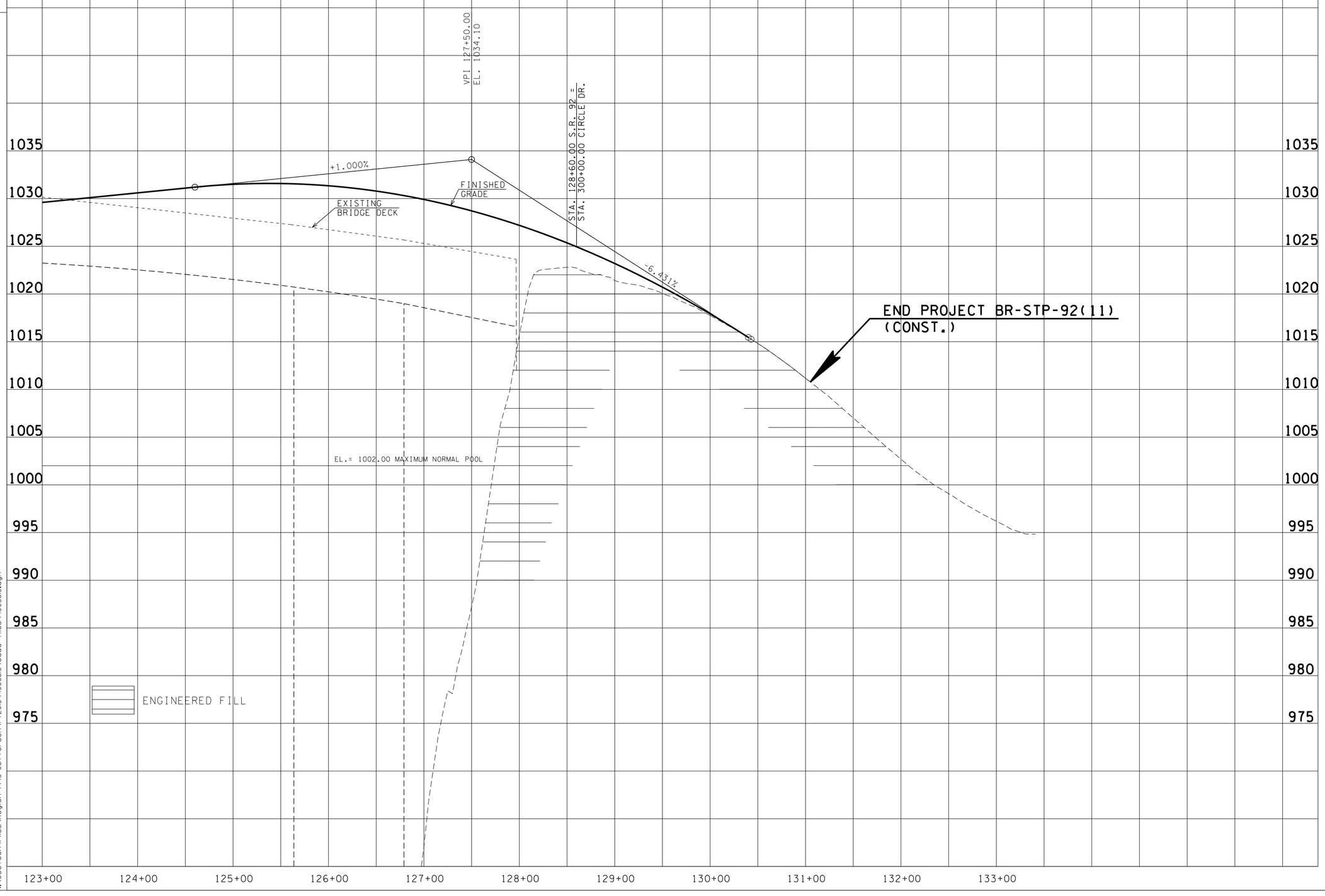
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26E

S.R. 92 JEFFERSON COUNTY
45011-3219-94 (CONST.)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102065
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 92
BRIDGE AND APPROACHES
OVER
FRENCH BROAD RIVER
STA.123+00 TO STA.131+05
JEFFERSON COUNTY

7/22/2015 9:39:46 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26F

S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

ITEM NO. 203-02.01 GRADED SOLID ROCK

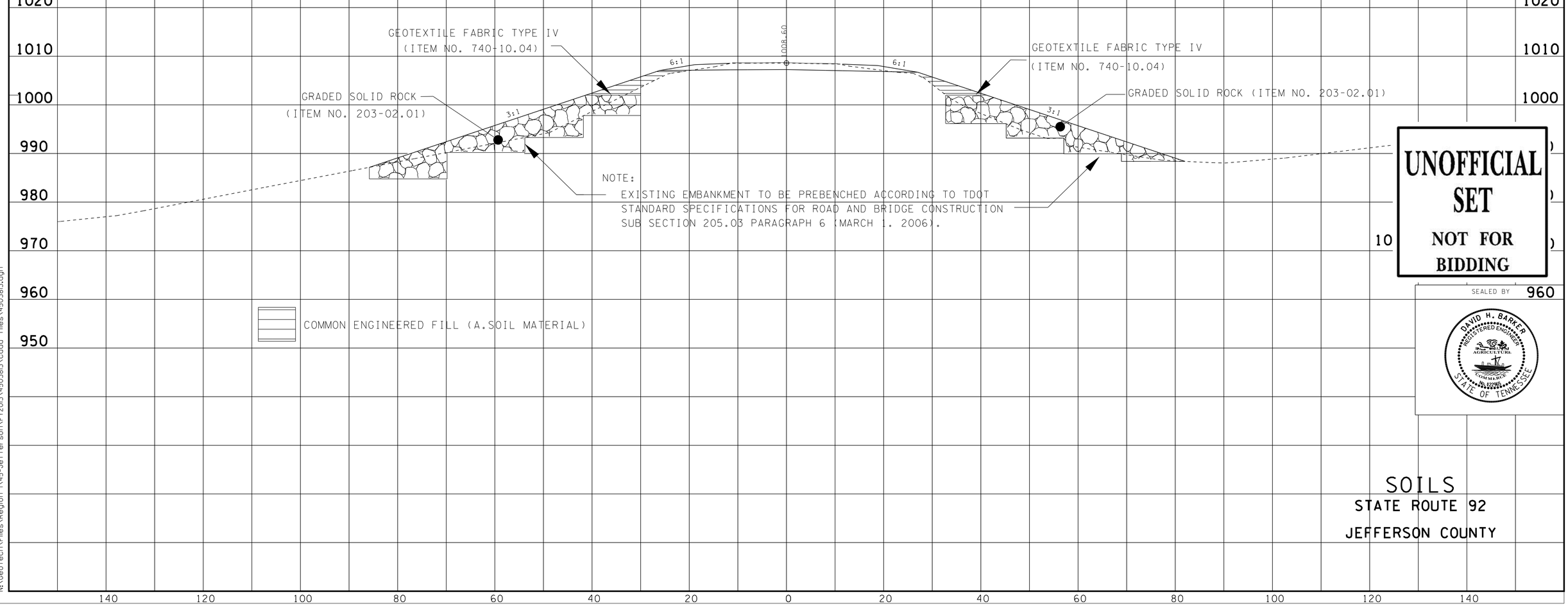
BORROW EXCAVATION (GRADED SOLID ROCK) SHALL CONSIST OF THE REMOVAL AND SATISFACTORY PLACEMENT OF SOUND, NON-DEGRADABLE ROCK WITH A MAXIMUM SIZE OF 3 FT. (1 M) . AT LEAST 50 PERCENT OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1 FT.(30 CM) AND 3 FT. (1 M) IN DIAMETER AND NO GREATER THAN 10 PERCENT 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. 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 HAS AN ESTIMATED SHRINKAGE FACTOR OF 5 PERCENT.

REPRESENTATIVE OF STATIONS 101+00 TO 102+75



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
STATE OF TENNESSEE

SOILS

STATE ROUTE 92

JEFFERSON COUNTY

7/22/2015 9:46:58 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26G

S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATIONS 102+75 TO 104+50

4-203.02

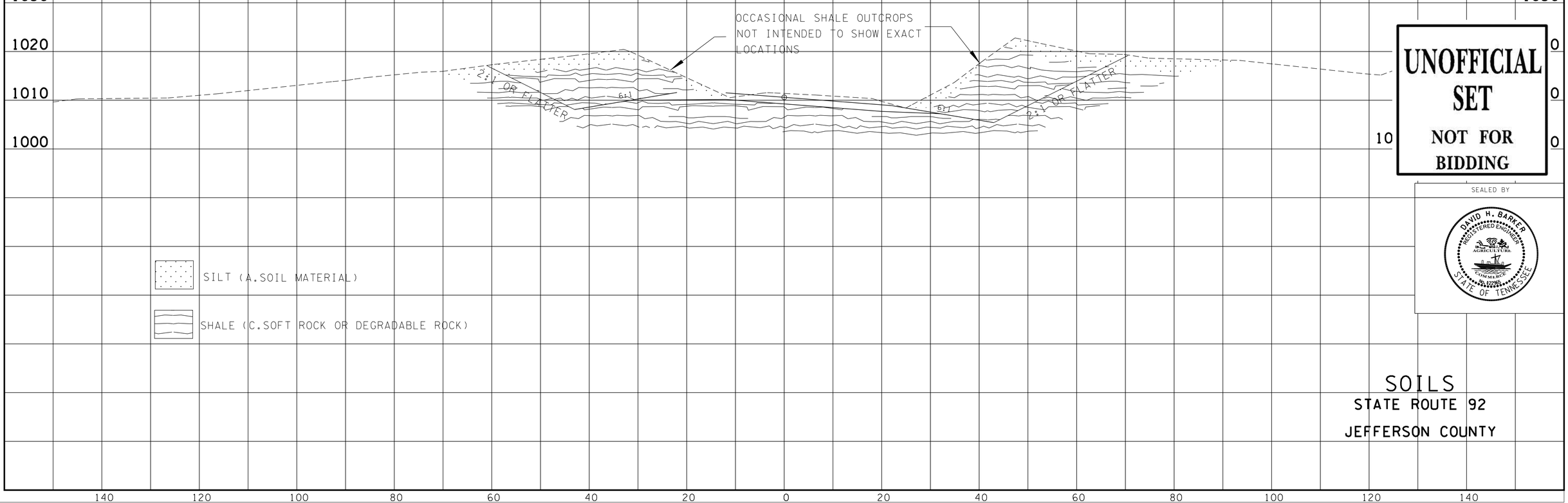
A. SOIL MATERIAL

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 HAS AN ESTIMATED SHRINKAGE FACTOR OF 5 PERCENT.

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 HAS AN ESTIMATED SWELL FACTOR OF 5 PERCENT.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 102000
STATE OF TENNESSEE

SOILS

STATE ROUTE 92

JEFFERSON COUNTY

7/22/2015 9:47:44 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26H

S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

4-203.02

A. SOIL MATERIAL

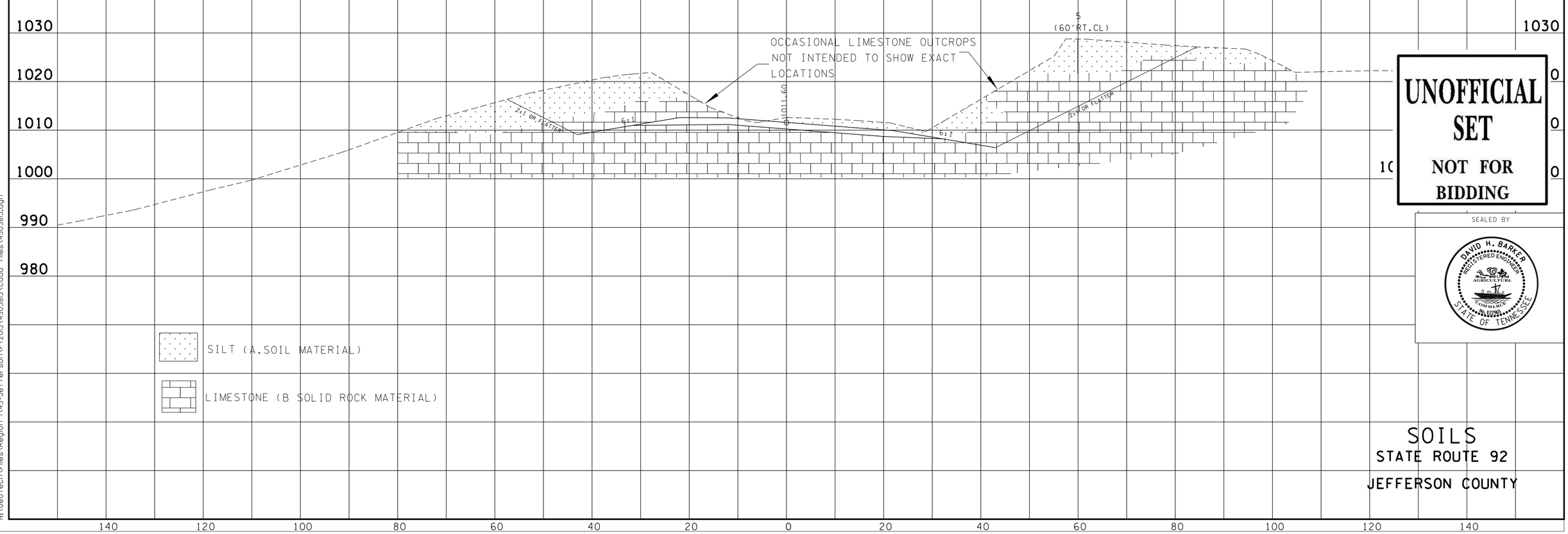
SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, 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 HAS AN ESTIMATED SHRINKAGE FACTOR OF 5 PERCENT.

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 HAS AN ESTIMATED SWELL FACTOR OF 15%.

REPRESENTATIVE OF STATIONS 104+50 TO 105+75



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

SOILS
STATE ROUTE 92

JEFFERSON COUNTY

7/22/2015 9:48:31 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26I

S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATIONS 105+75 TO 107+75

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 HAS AN ESTIMATED SHRINKAGE FACTOR OF 5 PERCENT.

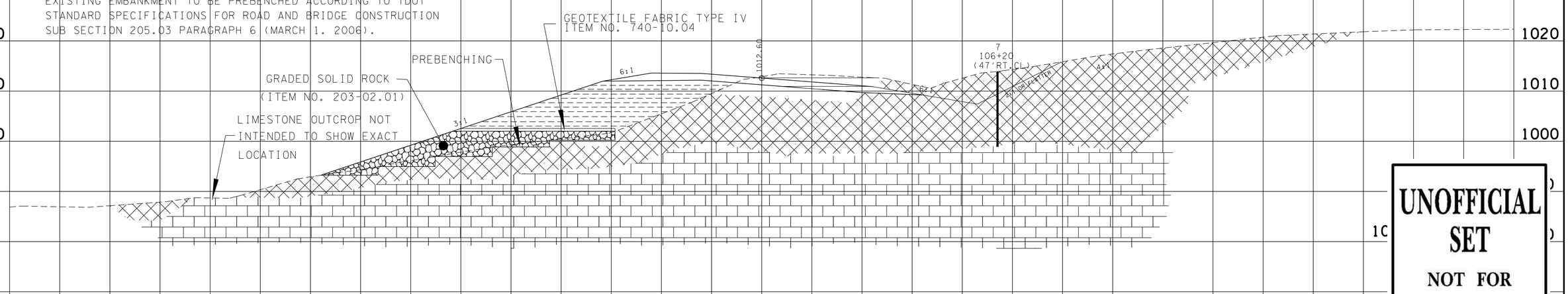
4-203.02

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 HAS AN ESTIMATED SWELL FACTOR OF 15%.

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).



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102000
STATE OF TENNESSEE

COMMON ENGINEERED FILL (A.SOIL MATERIAL)

CLAY (A.SOIL MATERIAL)

LIMESTONE (B SOLID ROCK MATERIAL)

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.

SOILS
STATE ROUTE 92
JEFFERSON COUNTY

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

7/22/2015 9:49:16 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26J

S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATIONS 107+75 TO 110+75

4-203.02

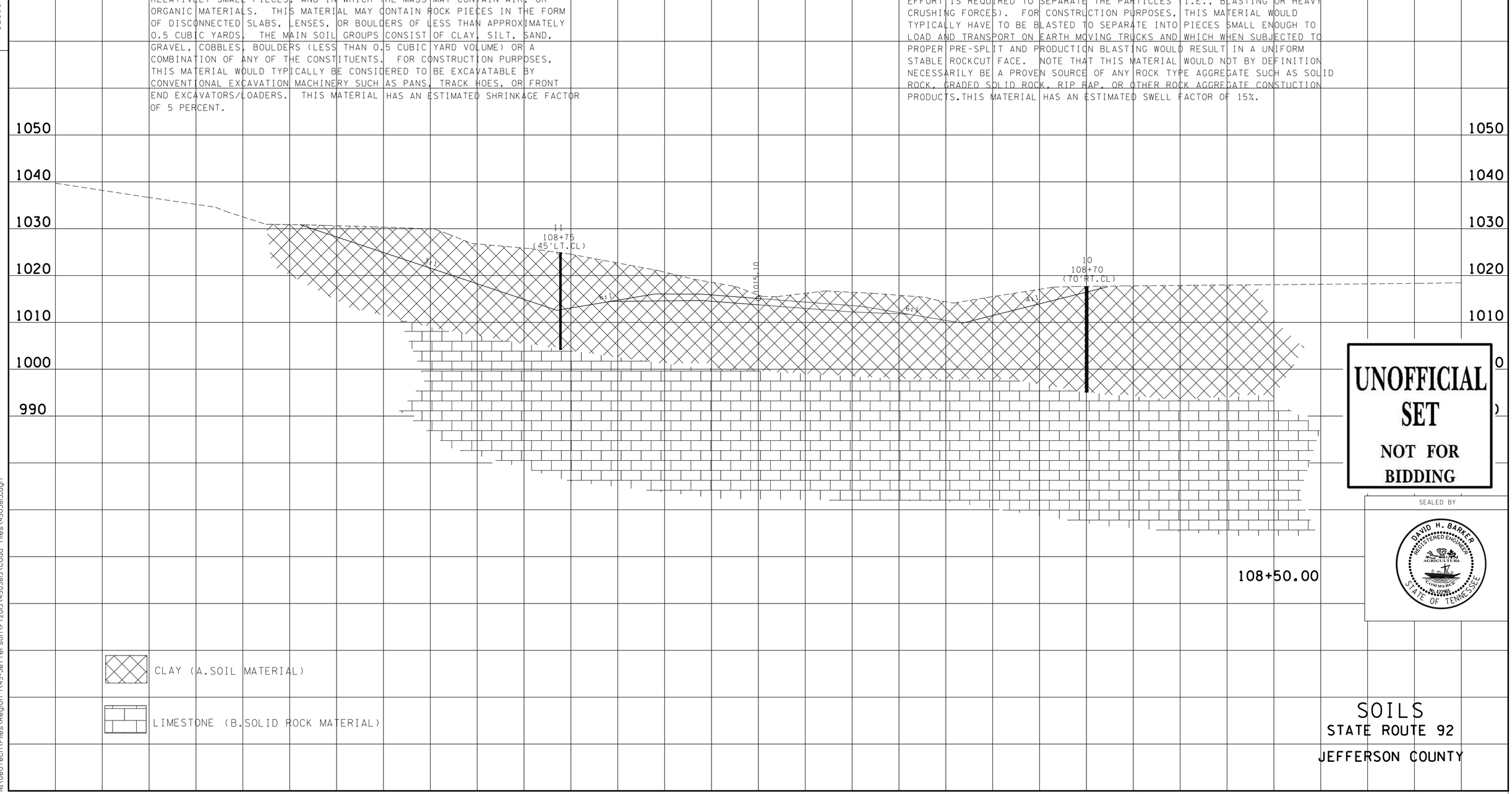
A. SOIL MATERIAL

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 HAS AN ESTIMATED SHRINKAGE FACTOR OF 5 PERCENT.

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 HAS AN ESTIMATED SWELL FACTOR OF 15%.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
STATE OF TENNESSEE

SOILS
STATE ROUTE 92
JEFFERSON COUNTY

7/22/2015 9:49:55 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26K

S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

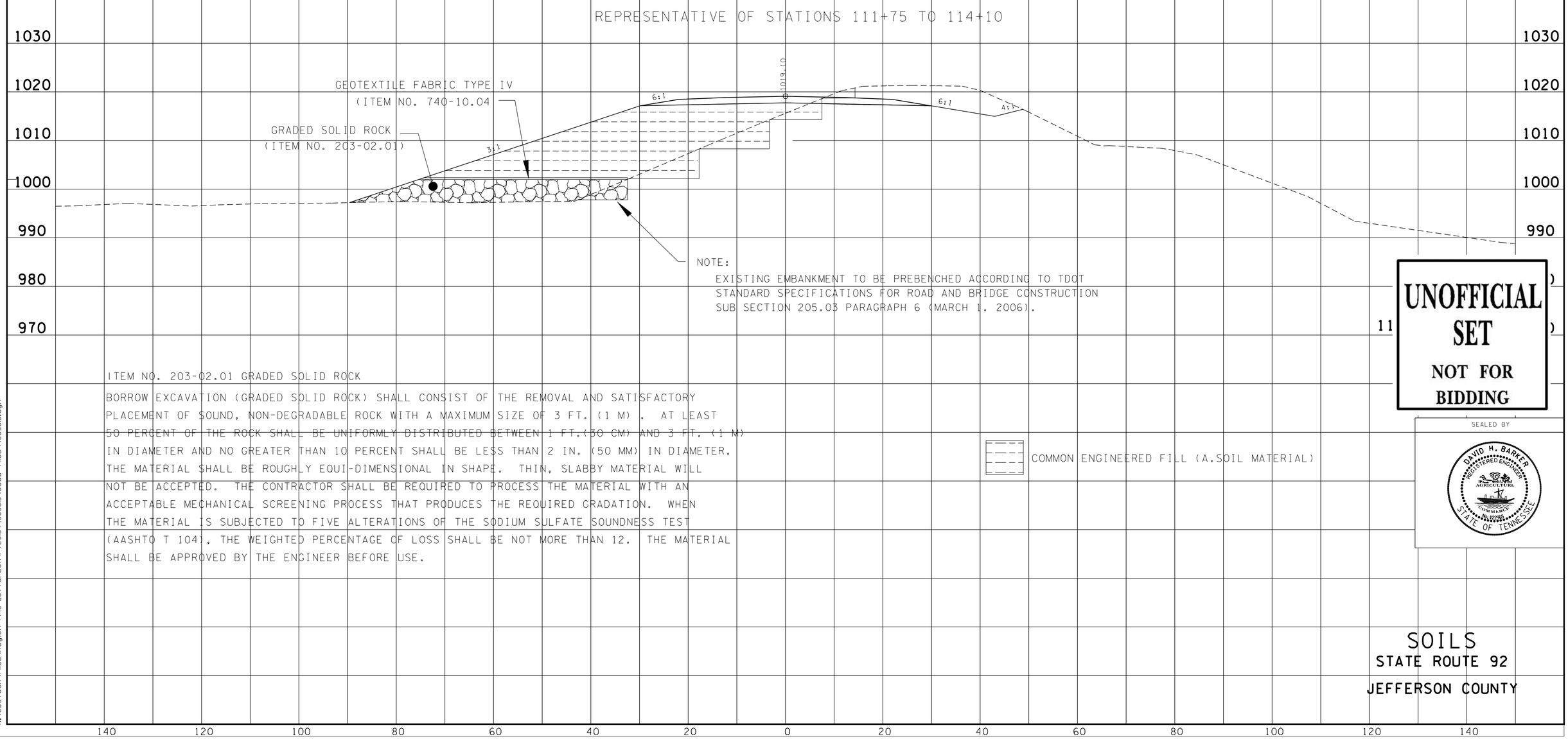
TENNESSEE D.O.T.
DESIGN DIVISION

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 HAS AN ESTIMATED SHRINKAGE FACTOR OF 5 PERCENT.

REPRESENTATIVE OF STATIONS 111+75 TO 114+10



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

SEALED BY

SOILS
STATE ROUTE 92
JEFFERSON COUNTY

7/22/2015 9:50:19 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26L

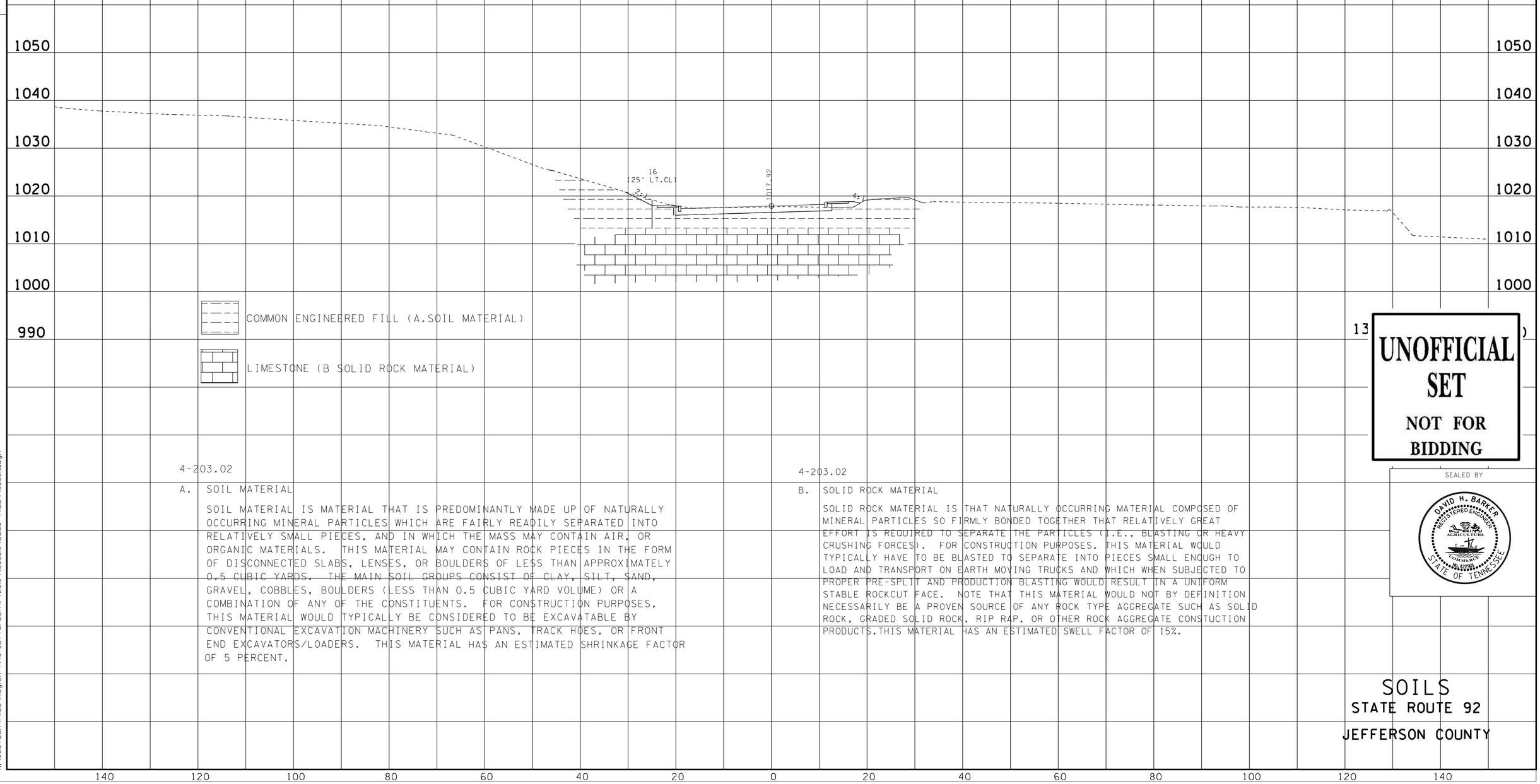
S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATIONS 128+10 TO 130+40



4-203.02

A. SOIL MATERIAL

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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 HAS AN ESTIMATED SWELL FACTOR OF 15%.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

SOILS
STATE ROUTE 92
JEFFERSON COUNTY

7/22/2015 9:50:51 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	26M

S.R. 92
45011-3219-94

JEFFERSON COUNTY
(CONST.)

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATIONS 198+82 TO 200+00

4-203.02

A. SOIL MATERIAL

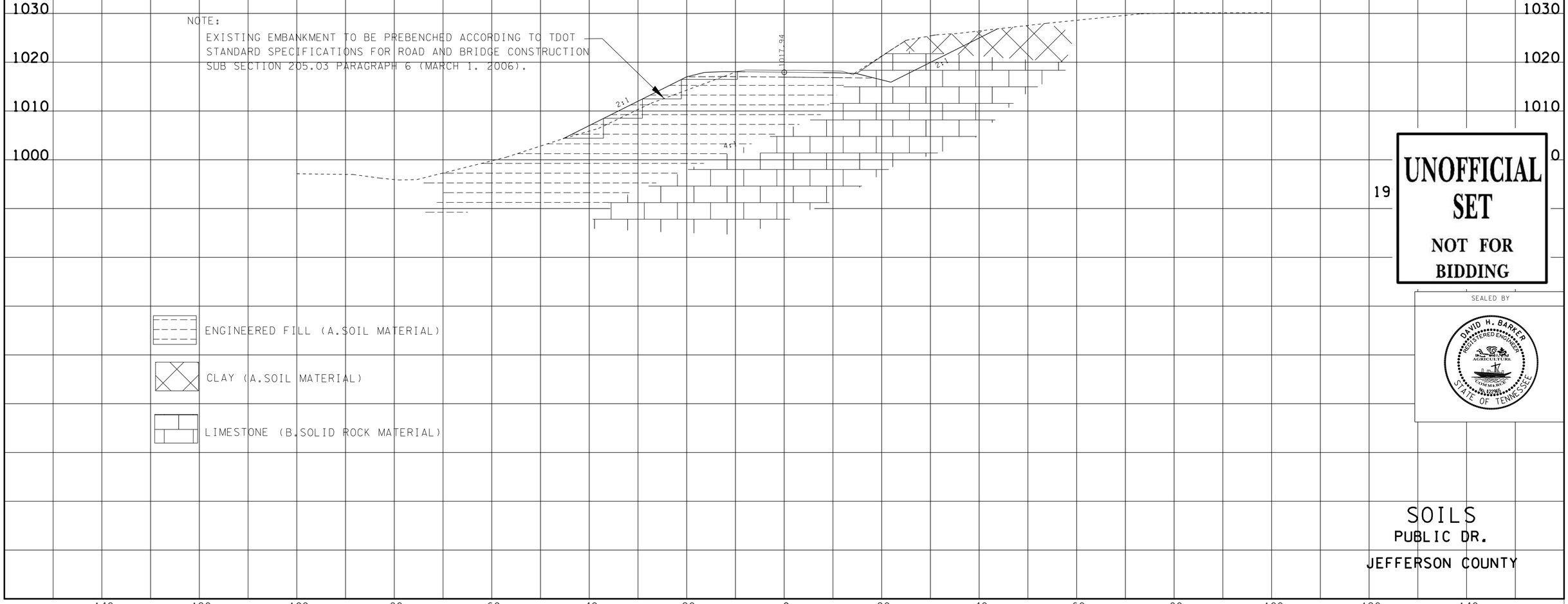
SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, 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 HAS AN ESTIMATED SHRINKAGE FACTOR OF 5 PERCENT.

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 HAS AN ESTIMATED SWELL FACTOR OF 15%.

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).



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DAVID H. BARKER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102061
STATE OF TENNESSEE

SOILS
PUBLIC DR.
JEFFERSON COUNTY

7/22/2015 9:51:27 AM
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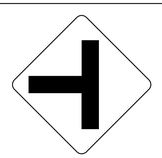
ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR THE CURRENT EDITION OF THE "TENNESSEE SUPPLEMENT TO THE STANDARD HIGHWAY SIGNS BOOK"

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	27

S.R. 92
45011-3219-94

JEFFERSON CO.
(CONST.)

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	W1-5 (RT) 25 MPH W13-1P		30″ 18″	30″ 18″									BLACK	YELLOW (REF.)	0.080″ SHEET ALUMINUM	P5	h =16′-3″				6′-0″	P5 REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
2	TWRA NO ALCOHOL OR DRUGS		18″	24″												P2	h =14′-0″				7′-0″	USE EXISTING SIGN FACE
3	ACCESS AREA RULES TWRA NO CAMPING NO ALCOHOL NO DRUGS		36″ 18″	48″ 24″												P5	h_1=17′-3″ h_2=17′-3″				6′-0″	USE EXISTING SIGN FACES P5 REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
4 5	9 92 TN-17a		6″	12″									WHITE (REF.)	GREEN (REF.)	0.080″ SHEET ALUMINUM	P1	h =10′-0″				4′-0″	
6 31	SPEED LIMIT 35 R2-1		30″	36″									BLACK	WHITE (REF.)	0.100″ SHEET ALUMINUM	P3	h =15′-0″ h =15′-0″				7′-0″	
8 14 28	STOP R1-1		36″	36″									WHITE (REF.)	RED (REF.)	0.100″ SHEET ALUMINUM	P3 P5 P5	h =15′-0″ h =16′-9″ h =16′-9″				7′-0″	P5 REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
9	HIGHWAY LITTERING $3000.00 FINE MAXIMUM TN-13		24″	30″									BLACK	WHITE (REF.)	0.080″ SHEET ALUMINUM	P2	h =14′-6″				7′-0″	
10	 W2-2 (LT)		30″	30″									BLACK	YELLOW (REF.)	0.080″ SHEET ALUMINUM	P3	h =15′-6″				7′-0″	

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR THE CURRENT EDITION OF THE "TENNESSEE SUPPLEMENT TO THE STANDARD HIGHWAY SIGNS BOOK"

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.		
11	SOUTH 92 Tennessee M3-3 TN-6c		24″ 30″	12″ 24″									BLACK	WHITE (REF.)	0.080″ SHEET ALUMINUM	P3	h =15′-3″				7′-0″	
12	Public Dr D3-1		36″	18″	2¼″	¾″	6″ 3″	4½″ 2¼″		"C"			WHITE (REF.)	GREEN (REF.)	0.080″ SHEET ALUMINUM							TWO SIGN FACES REQUIRED; TO BE MOUNTED ABOVE SIGN 14; MOUNTING HARDWARE TO BE INCLUDED IN COST OF SIGN MATERIAL
13	McCown Memorial Highway		36″	18″	2¼″	¾″	5″ 2″	3¾″ 1½″		"C"			WHITE (REF.)	GREEN (REF.)	0.080″ SHEET ALUMINUM	P2	h =13′-6″				7′-0″	
15	Dandridge		48″	36″												P2	h_1 =15′-0″ h_2 =15′-0″				7′-0″	USE EXISTING SIGN FACE
18 22	Dr. James D. Hoskins H.B. Jarnagins Bridge		78″	30″	2¼″	¾″	5″ 3″	3¾″ 2¼″		"C"			WHITE (REF.)	GREEN (REF.)	0.100″ SHEET ALUMINUM	P3	h_1 =14′-6″ h_2 =14′-6″ h_3 =14′-6″ h_1 =14′-6″ h_2 =14′-6″ h_3 =14′-6″				7′-0″	
20	W2-2 (RT)		30″	30″									BLACK	YELLOW (REF.)	0.080″ SHEET ALUMINUM	3″ □ X ⅛″ WALL @ 4.83#/FT.	h =7′-6″				4′-0″	3″ □ X ⅛″ WALL @ 4.83#/FT. ITEM NO. 713-11.05 SEE STD. DWG. T-S-21 (TO BE MOUNTED TO PARAPET WALL)
25	I-8 M6-1 (LT)		24″ 21″	24″ 15″									WHITE (REF.)	GREEN (REF.)	0.080″ SHEET ALUMINUM	P3	h =15′-6″				7′-0″	
26	JCT 139 M2-1 TN-6b		21″ 30″	15″ 24″									BLACK	WHITE (REF.)	0.080″ SHEET ALUMINUM	P3	h =15′-6″				7′-0″	
27	Circle Dr D3-1		36″	18″	2¼″	¾″	6″ 3″	4½″ 2¼″		"C"			WHITE (REF.)	GREEN (REF.)	0.080″ SHEET ALUMINUM							TWO SIGN FACES REQUIRED; TO BE MOUNTED ABOVE SIGN 28; MOUNTING HARDWARE TO BE INCLUDED IN COST OF SIGN MATERIAL
29	R5-2		24″	24″									BLACK RED (REF.)	WHITE (REF.)	0.080″ SHEET ALUMINUM	P2	h =14′-0″				7′-0″	
30	I-8 M6-1 (RT)		24″ 21″	24″ 15″									WHITE (REF.)	GREEN (REF.)	0.080″ SHEET ALUMINUM	P3	h =15′-6″				7′-0″	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-92(11)	27A

S.R. 92
45011-3219-94

JEFFERSON CO.
(CONST.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

CHRISTIE DAWN BROWN
REGISTERED ENGINEER
DEPT. OF AGRICULTURE
COMMERCE
No. 108681
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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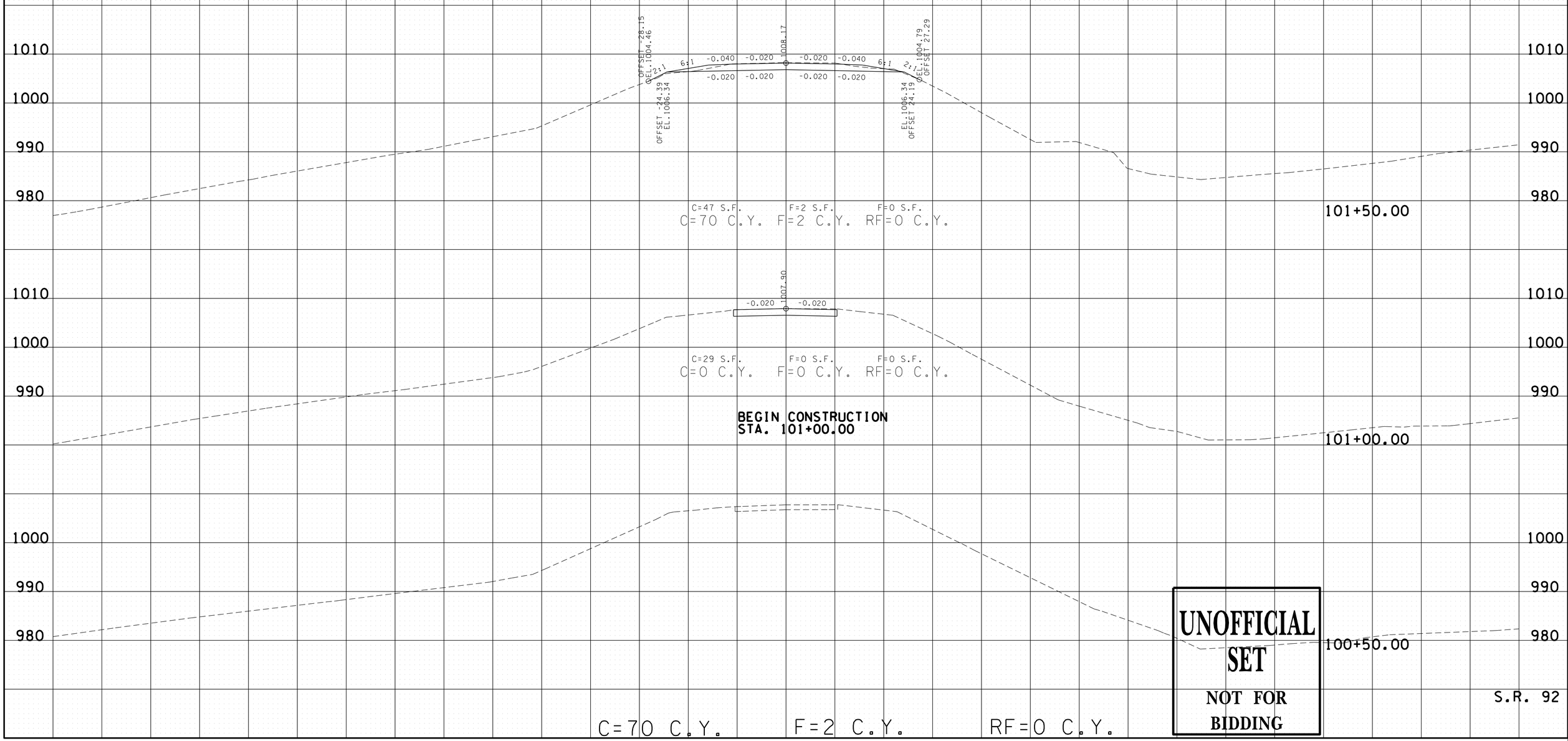
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	24
CONST.	2015	BR-STP-92(11)	28

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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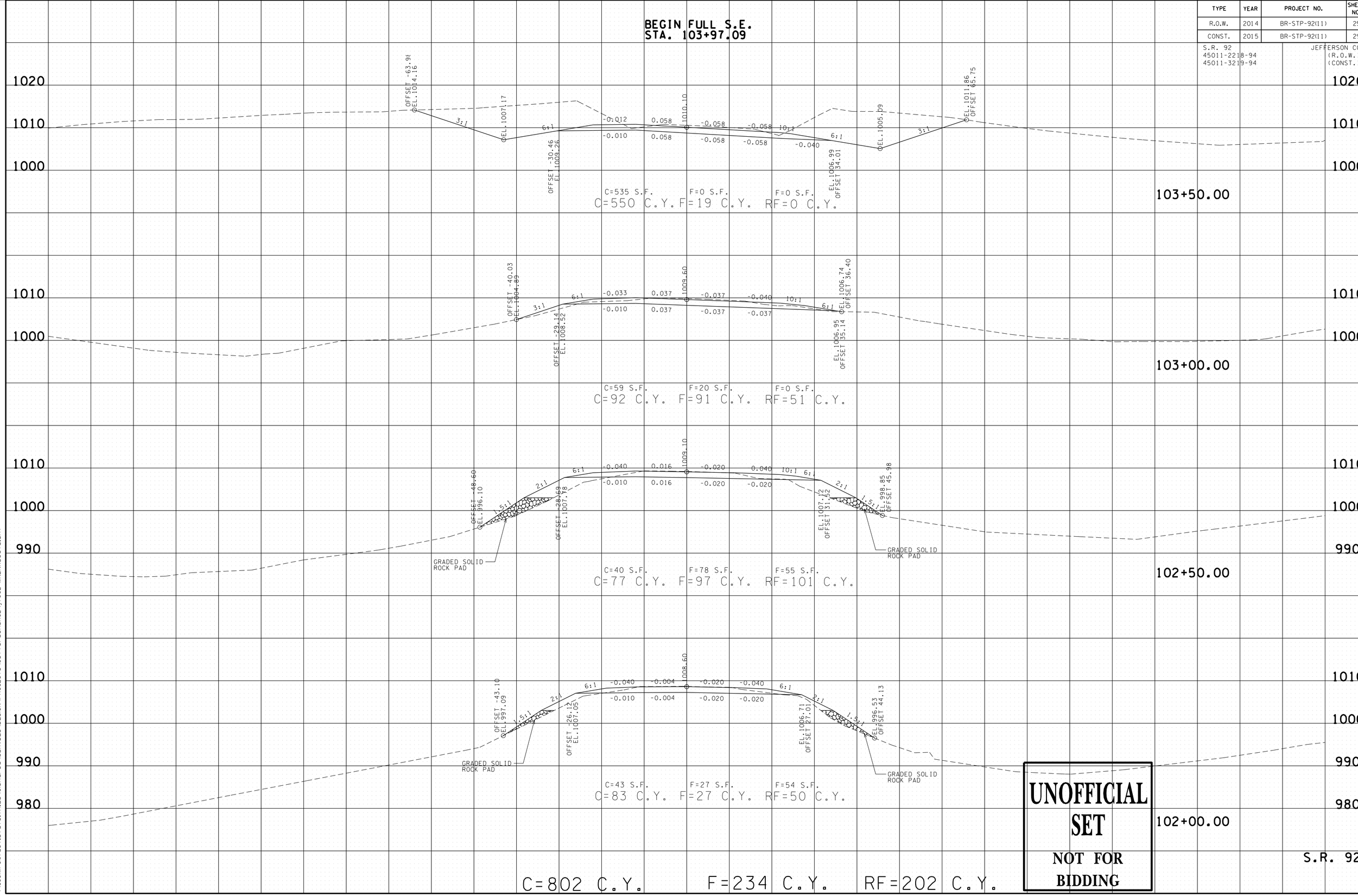
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	25
CONST.	2015	BR-STP-92(11)	29

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)



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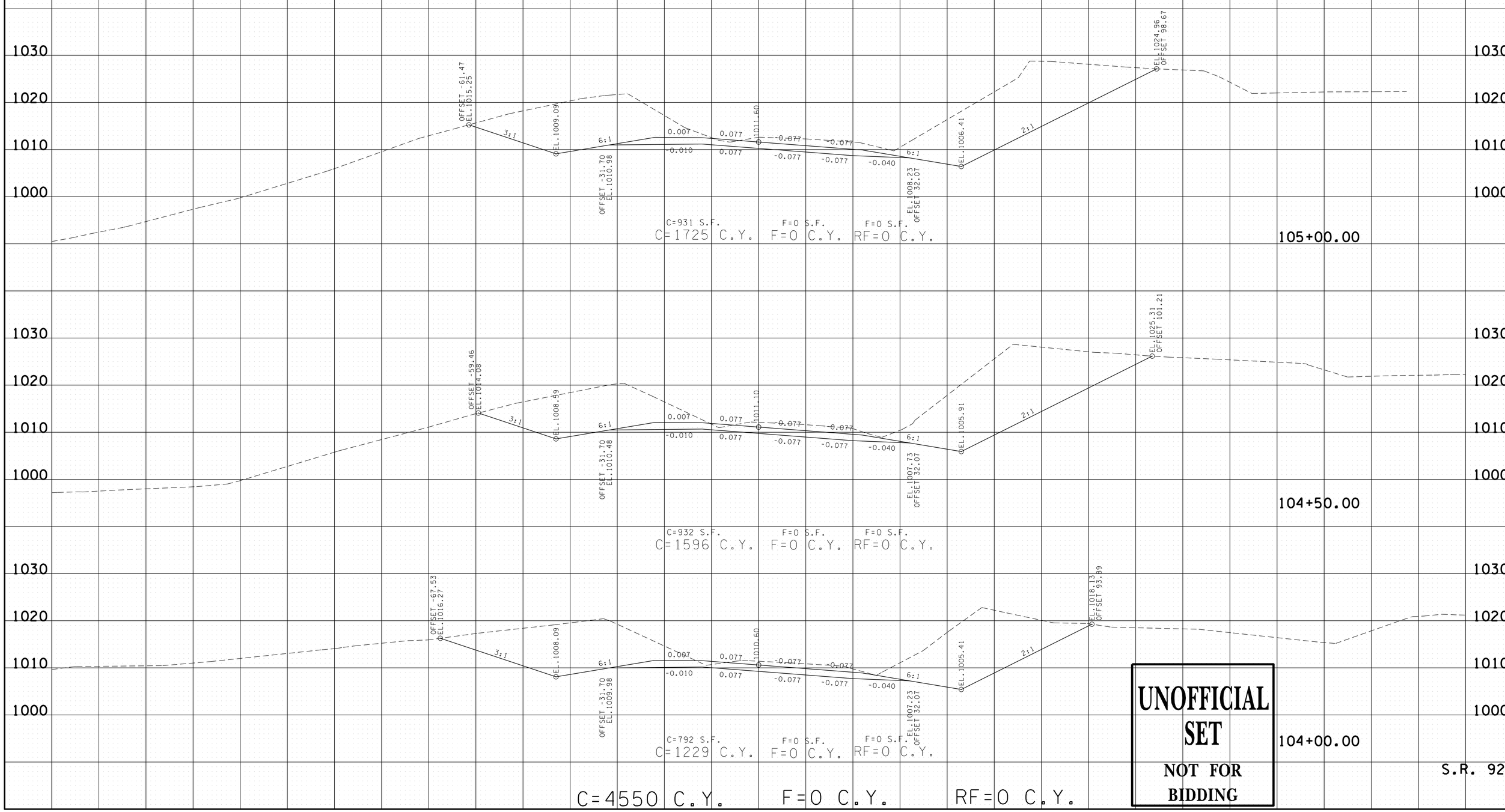
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	26
CONST.	2015	BR-STP-92(11)	30

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)



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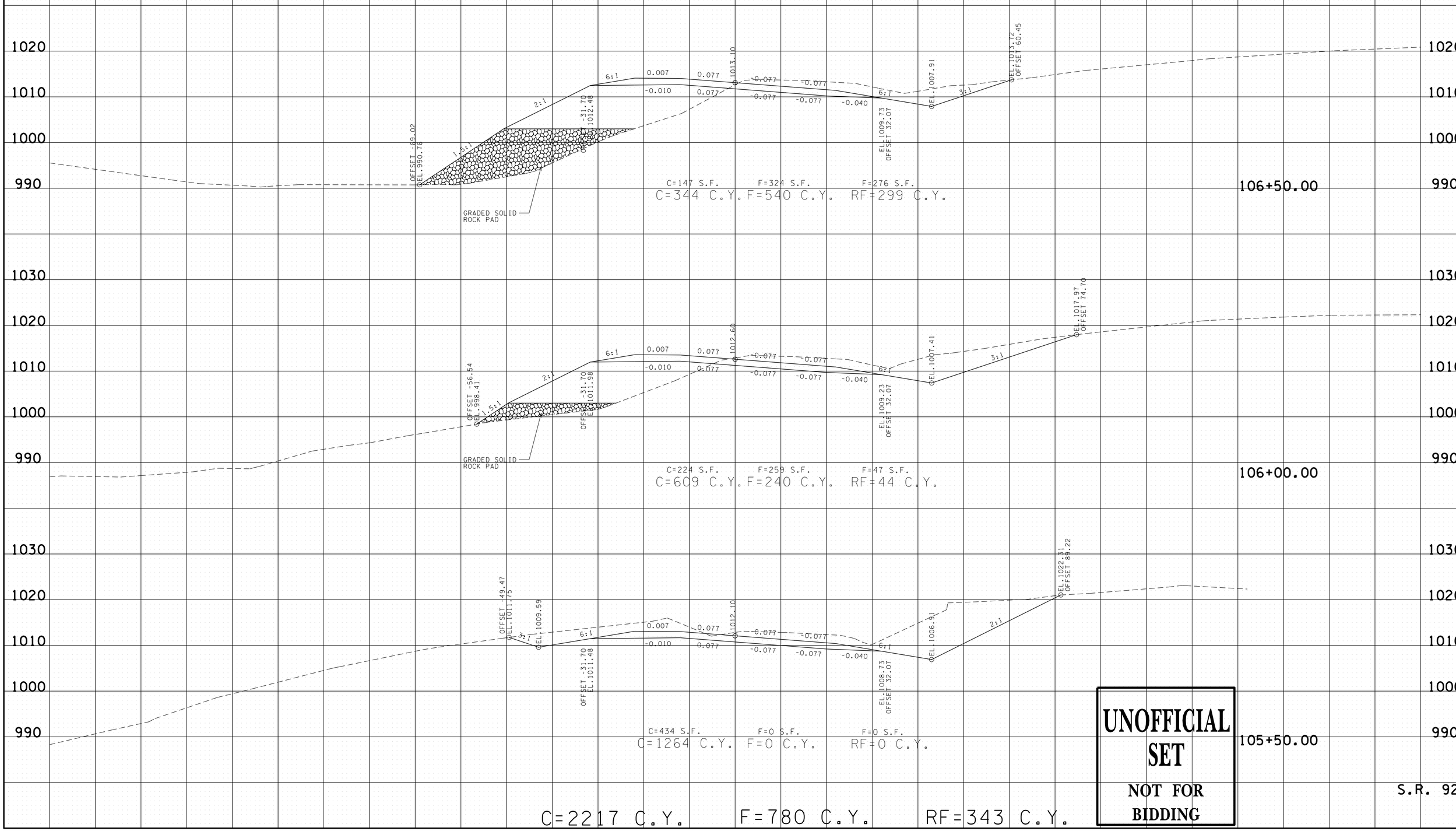
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	27
CONST.	2015	BR-STP-92(11)	31

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)



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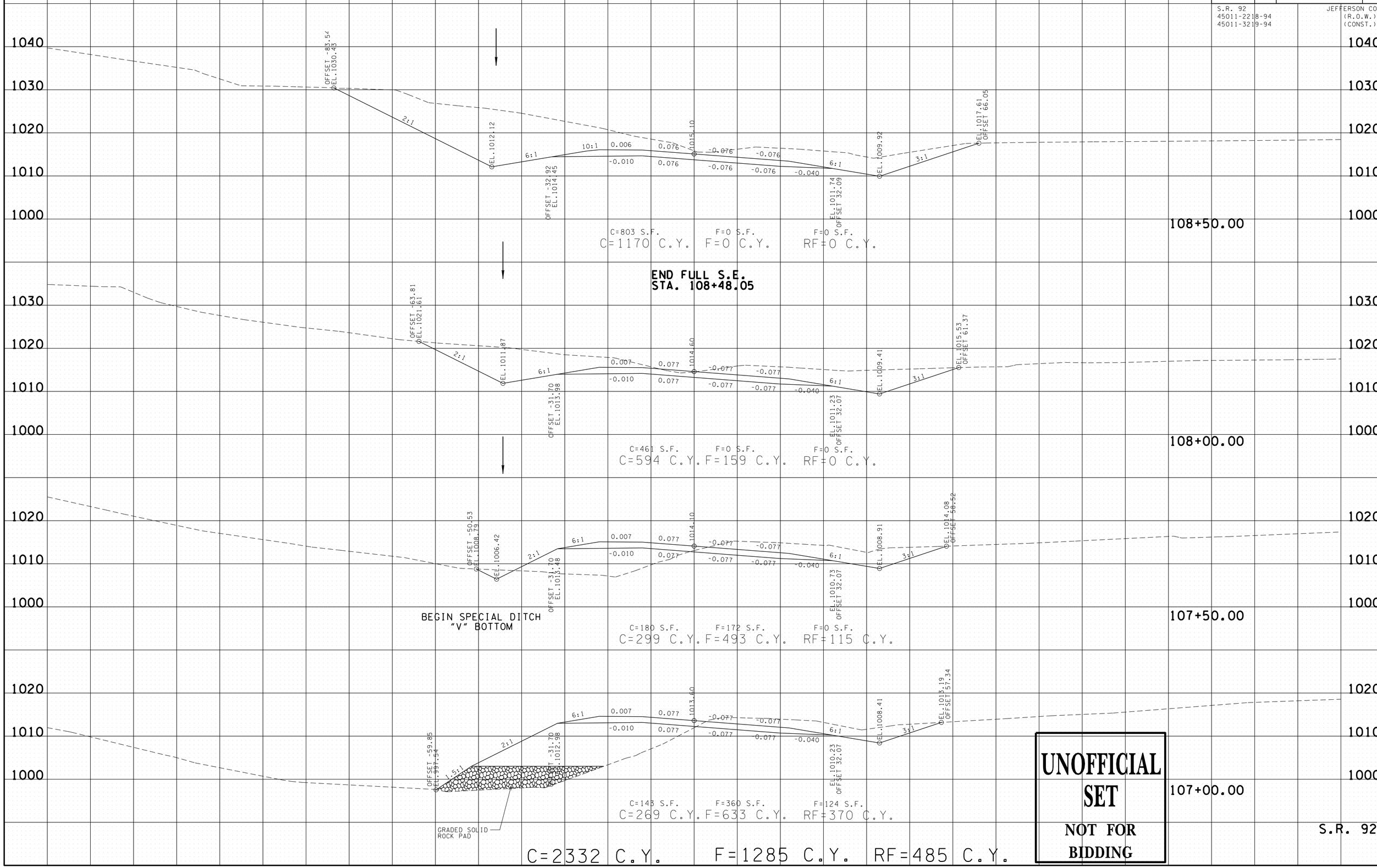
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	28
CONST.	2015	BR-STP-92(11)	32

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)



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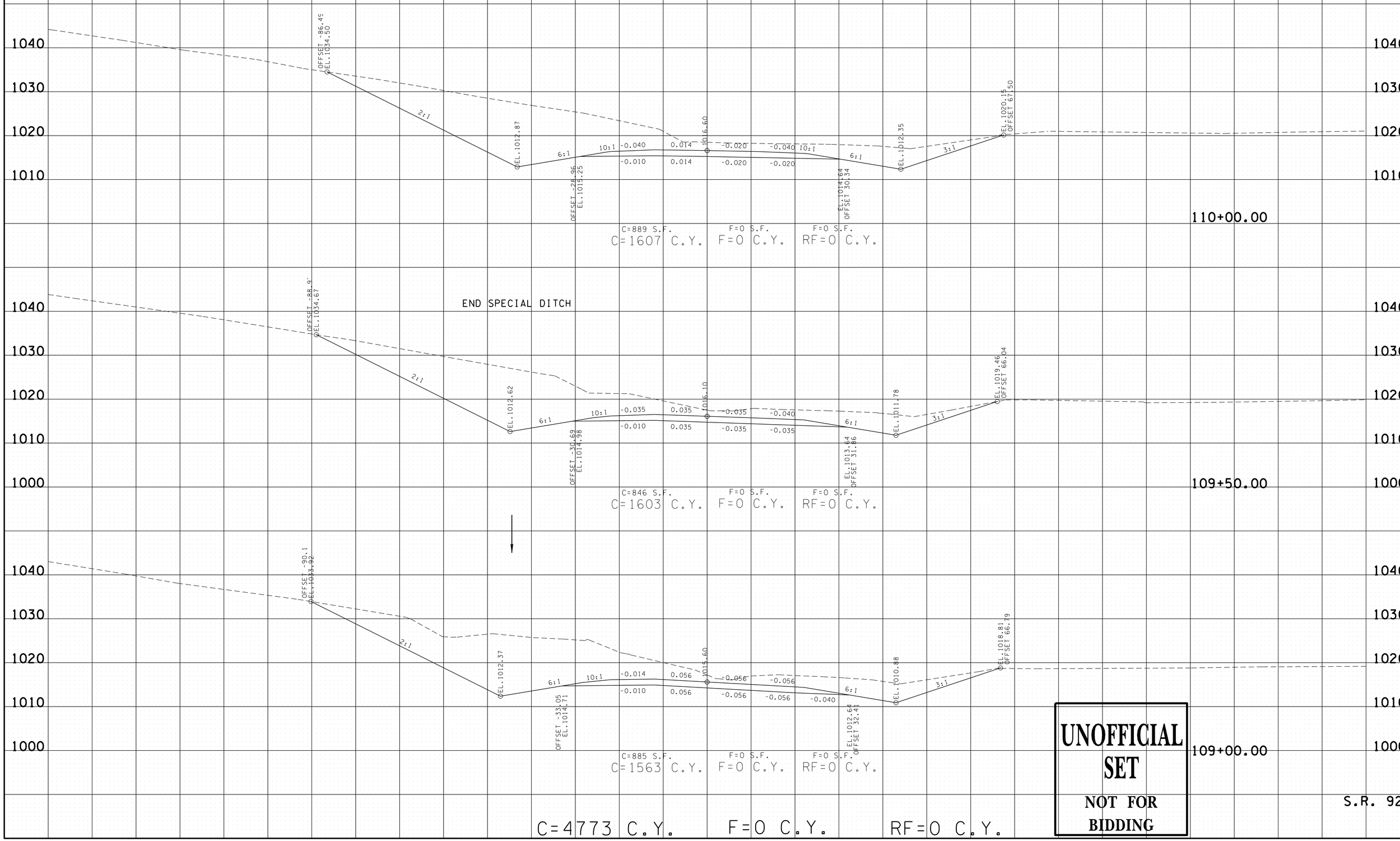
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	29
CONST.	2015	BR-STP-92(11)	33

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)



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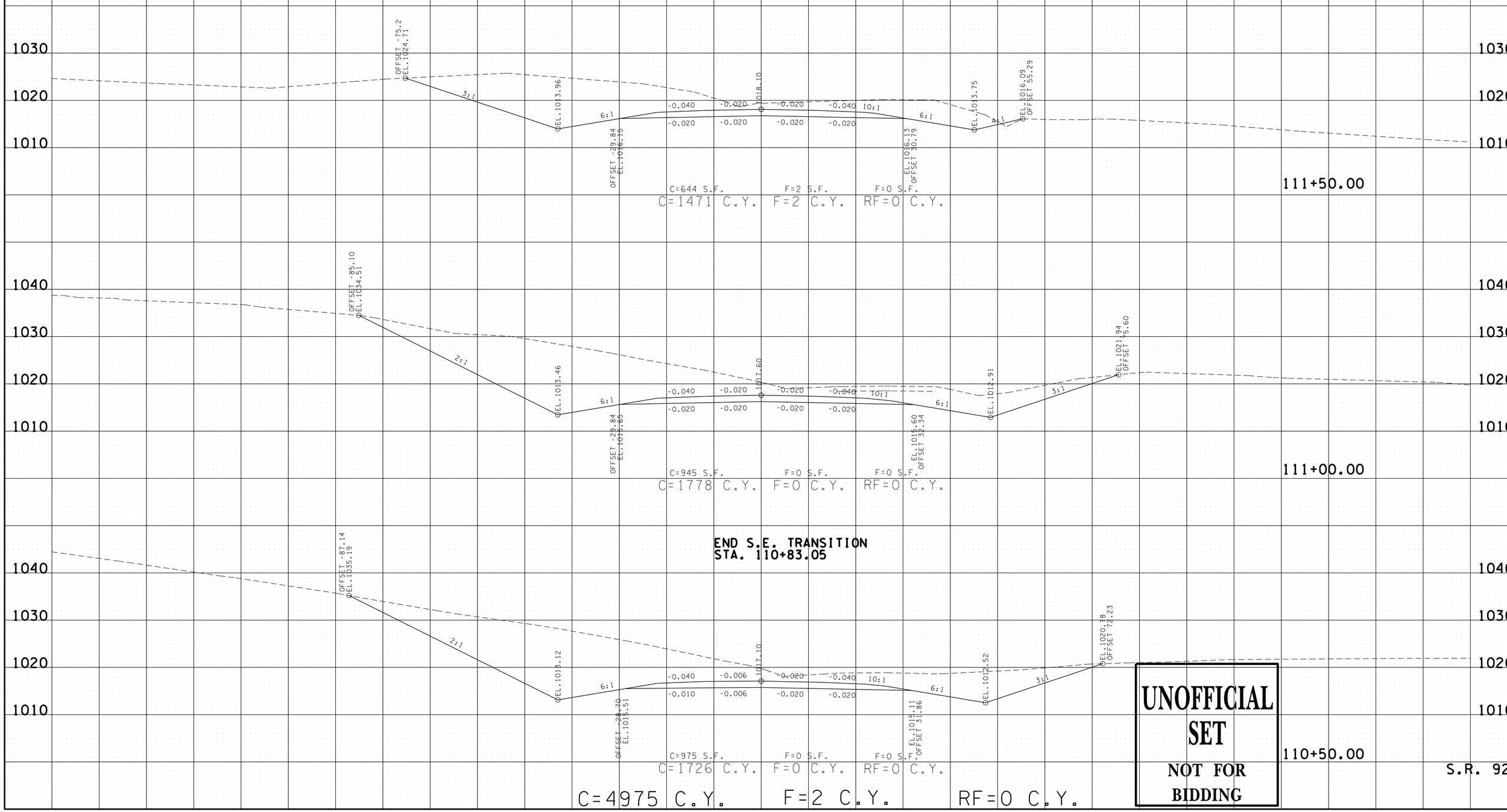
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	30
CONST.	2015	BR-STP-92(11)	34

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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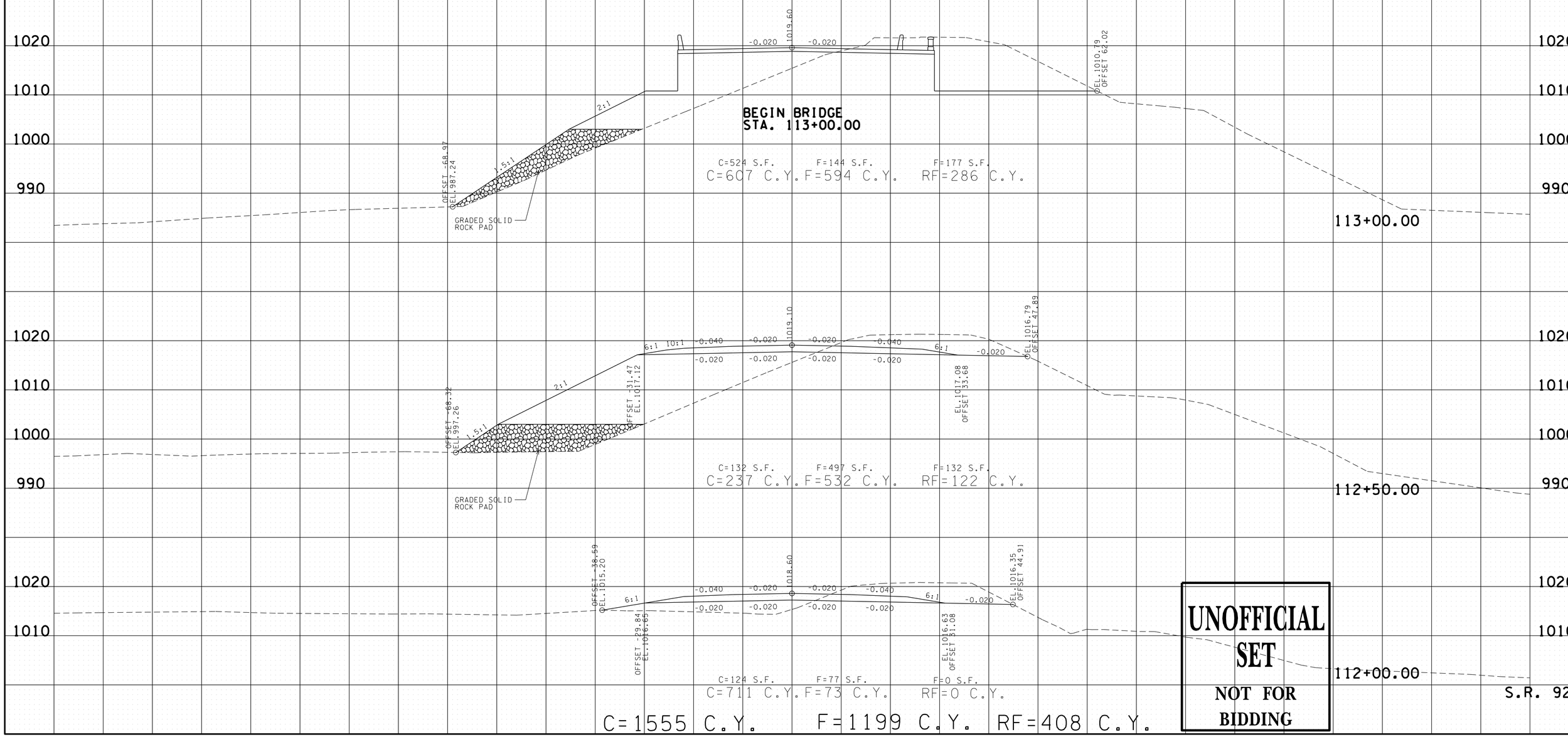
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	31
CONST.	2015	BR-STP-92(11)	35

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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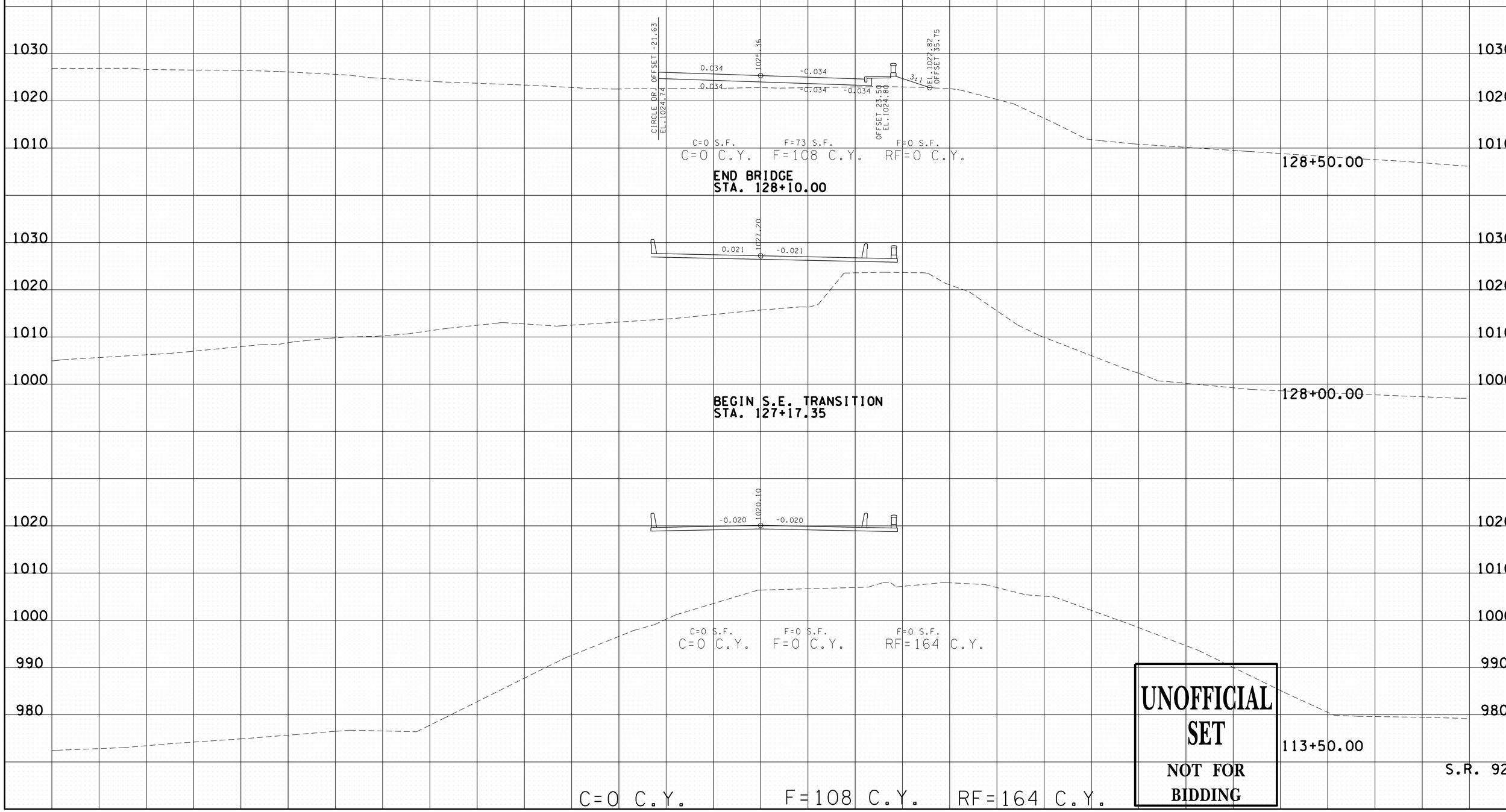
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	32
CONST.	2015	BR-STP-92(11)	36

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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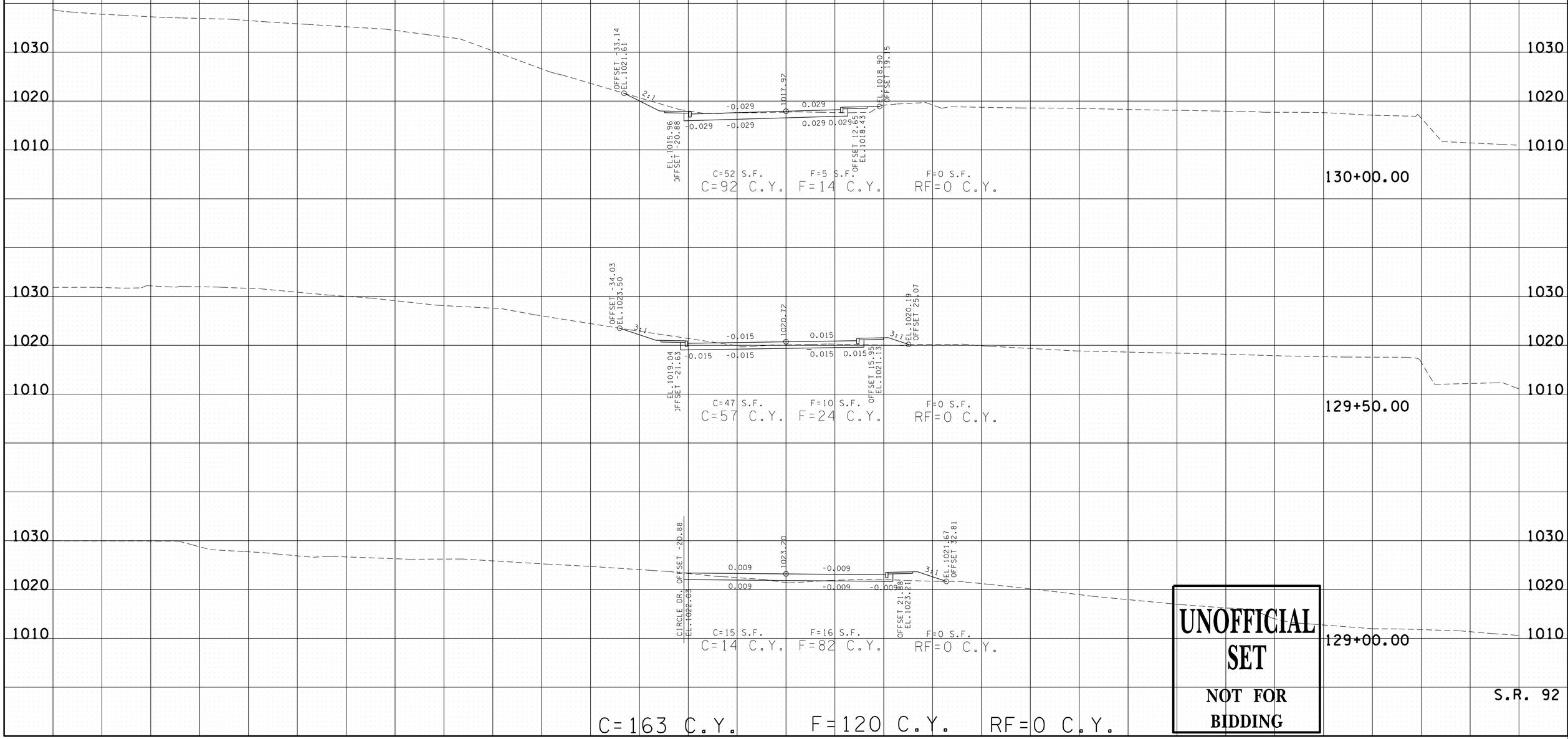
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	33
CONST.	2015	BR-STP-92(11)	37

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)

END GRADE & DRAIN
BEGIN RESURFACING
BEGIN RIGHT SIDE CURB
& SIDEWALK TRANSITION
STA. 130+42.58



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S.R. 92

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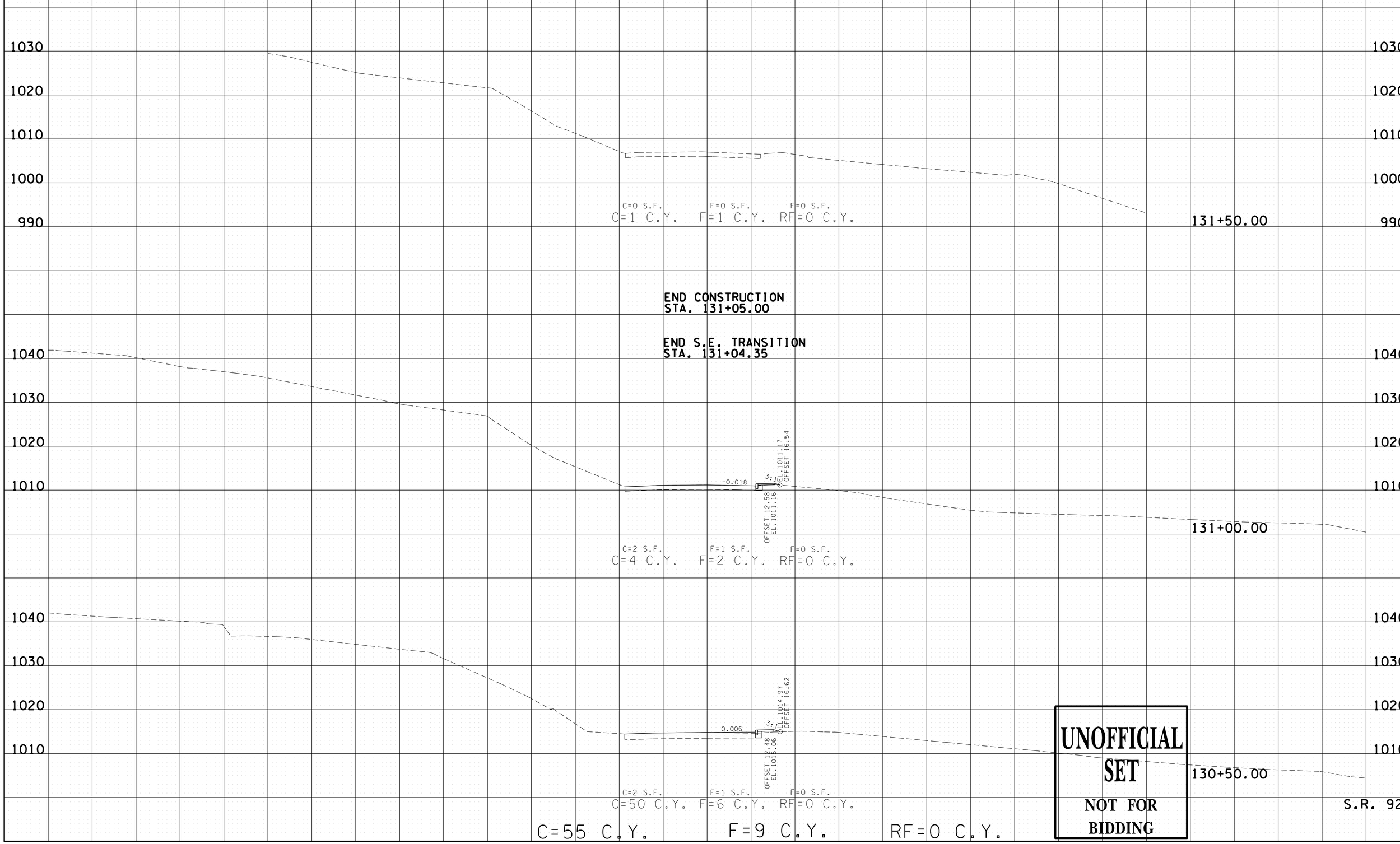
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	34
CONST.	2015	BR-STP-92(11)	38

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON CO.
(R.O.W.)
(CONST.)



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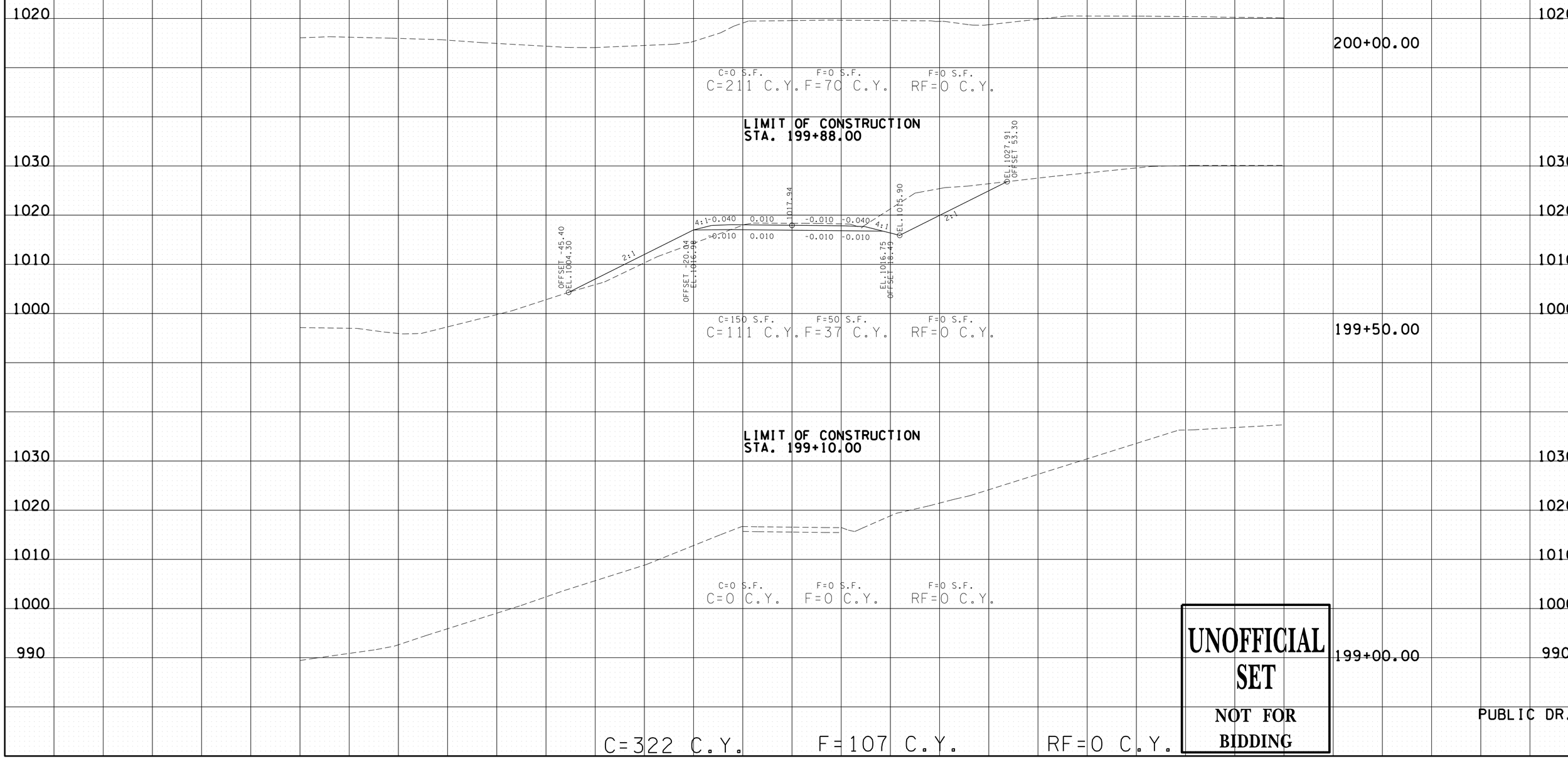
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	35
CONST.	2015	BR-STP-92(11)	39

S.R. 92
45011-2218-94
45011-3219-94

JEFFERSON COUNTY
(R.O.W.)
(CONST.)



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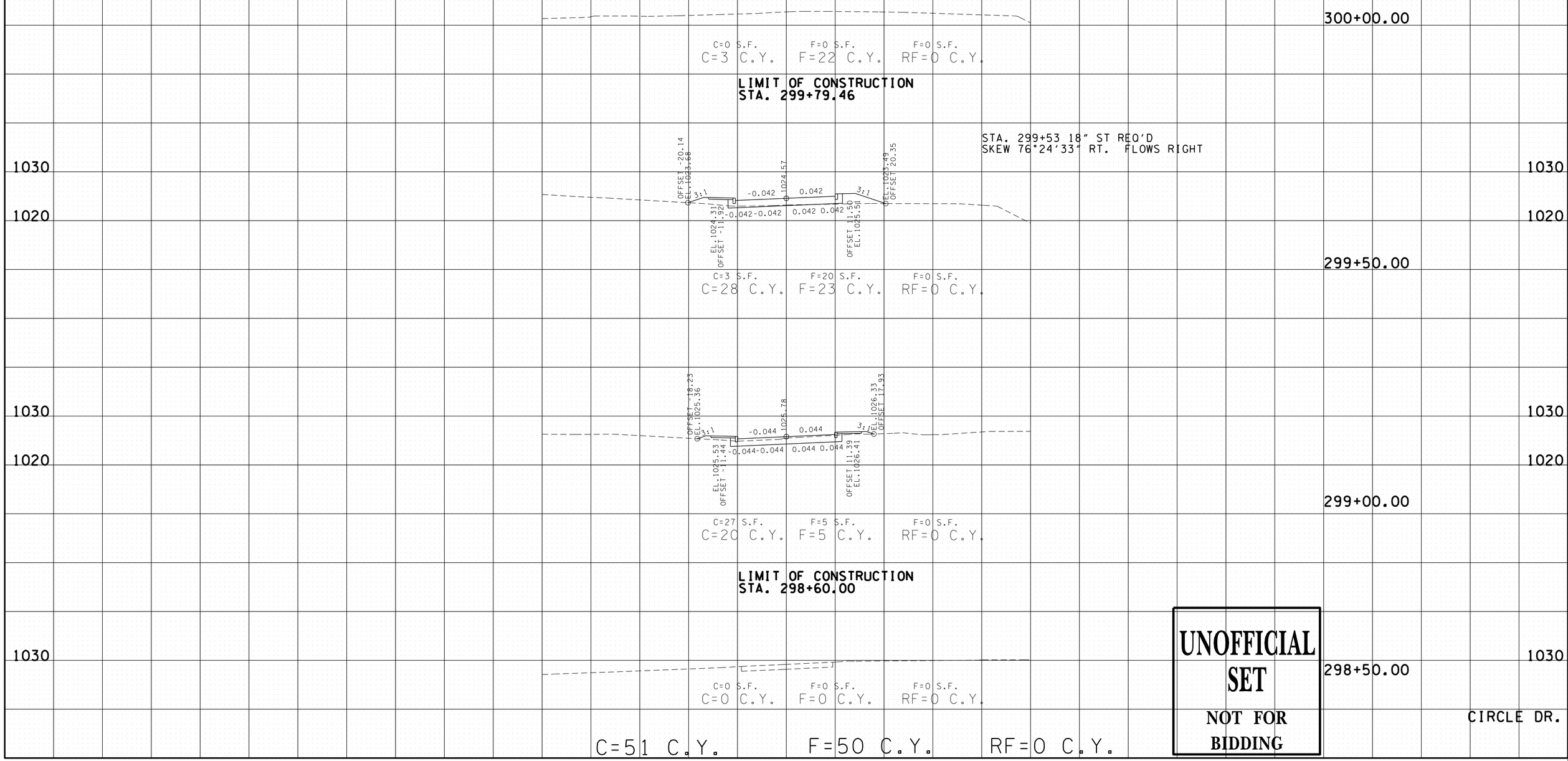
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-92(11)	36
CONST.	2015	BR-STP-92(11)	40

S.R. 92 JEFFERSON CO.
45011-2218-94 (R.O.W.)
45011-3219-94 (CONST.)



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