Index Of Sheets

SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

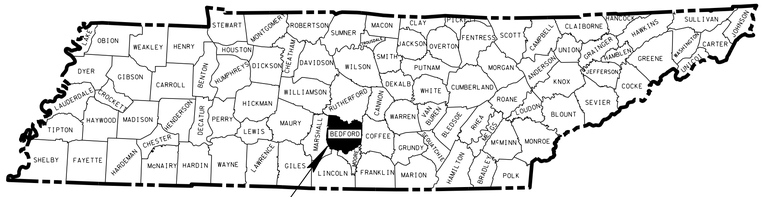
TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	BR-STP-130(20)	
STATE PROJ. NO.	02014-3212-94	

BEDFORD COUNTY

S.R. 130 BRIDGES OVER BRANCH AT LM'S 4.77, 5.45, 9.83 AND BRIDGE OVER SUGAR CREEK, LM 8.30

CONSTRUCTION

STATE HIGHWAY NO. 130 F.A.H.S. NO. N/A



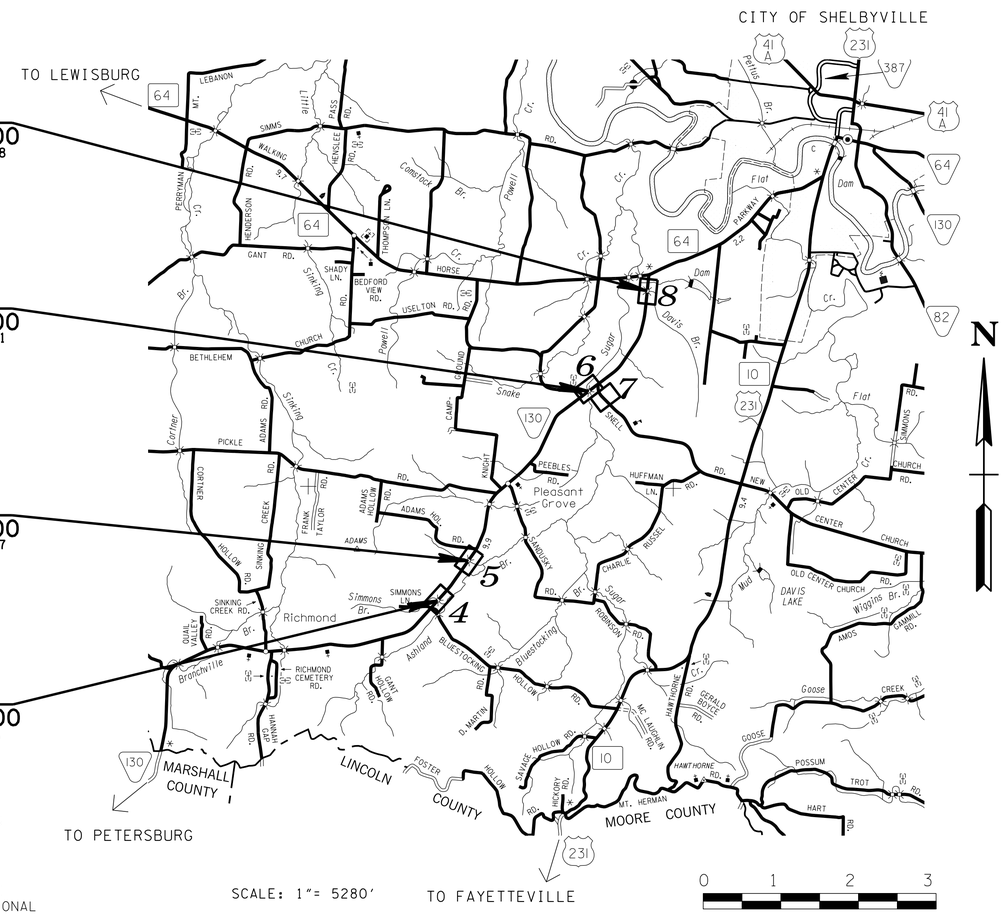
PROJECT NO. BR-STP-130(20)
BEDFORD COUNTY

LM 9.83 02014-3212-94
PROJ. NO. BR-STP-130(20) CONST.
BEGIN STA. 514+75.00, END STA. 521+75.00
N 408055.6993, E 1817847.1075 N 408752.2704, E 1817916.3078

LM 8.30 02014-3212-94
PROJ. NO. BR-STP-130(20) CONST.
BEGIN STA. 435+50.00, END STA. 443+00.00
N 401505.6117, E 1814075.6872 N 401959.0459, E 1814673.0931

LM 5.45 02014-3212-94
PROJ. NO. BR-STP-130(20) CONST.
BEGIN STA. 284+75.00, END STA. 290+25.00
N 389622.3209, E 1805549.9849 N 390070.3153, E 1805869.0477

LM 4.77 02014-3212-94
PROJ. NO. BR-STP-130(20) CONST.
BEGIN STA. 250+00.00, END STA. 254+00.00
N 386894.1931, E 1803405.7046 N 387190.9993, E 1803673.8576



EXCLUSIONS	
STATION TO STATION	LENGTH (FT.)
254+00.00-284+75.00	3075.00
290+25.00-435+50.00	14525.00
443+00.00-514+75.00	7175.00
T O T A L =	24775.00

NO EQUATIONS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — NO. 106422 — STATE OF TENNESSEE

L.M.'S 4.77 & 5.45

TRAFFIC DATA	
ADT (2015)	1760
ADT (2035)	2110
DHV (2035)	274
D	65 - 35
T (ADT)	10 %
T (DHV)	7 %
V	60 MPH

L.M. 8.30

TRAFFIC DATA	
ADT (2015)	2200
ADT (2035)	2640
DHV (2035)	343
D	65 - 35
T (ADT)	8 %
T (DHV)	5 %
V	60 MPH

L.M. 9.83

TRAFFIC DATA	
ADT (2015)	2130
ADT (2035)	2560
DHV (2035)	384
D	65 - 35
T (ADT)	8 %
T (DHV)	5 %
V	60 MPH

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

SPECIAL NOTES

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

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

TDOT C.E. MANAGER 1 ROBERT BRAUN, P.E.

DESIGNER LARRY PARKER CHECKED BY BRADLEY MARTIN, P.E.

P.E. NO. 02014-1212-94, (DESIGN)

PIN NO. 115673.00

ROADWAY LENGTH	0.394 MILES
BRIDGE LENGTH	0.060 MILES
BOX BRIDGE LENGTH	0.011 MILES ✡
PROJECT LENGTH	0.454 MILES

✡ NOT INCLUDED IN PROJECT LENGTH

ORIGINAL SURVEY: 01/15/13
SURVEY UPDATE: 06/20/13
SURVEY UPDATE: 02/24/14

7-JUL-2015 10:08
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\001c.SHT

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

BEDFORD COUNTY

S.R. 130 BRIDGES OVER BRANCH
AT LM'S 4.77, 5.45, 9.83
AND BRIDGE OVER SUGAR CREEK, LM 8.30

R.O.W.

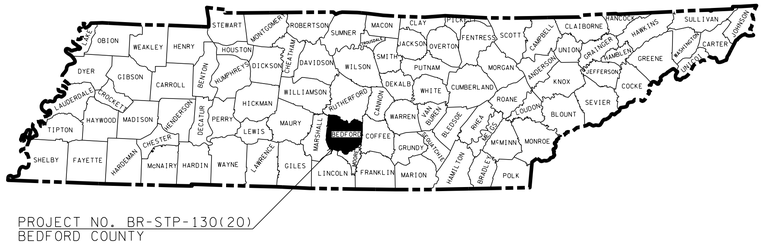
STATE HIGHWAY NO. 130 F.A.H.S. NO. N/A

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	BR-STP-130(20)	
STATE PROJ. NO.	02014-2212-94	

Index Of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2,2A	TYPICAL SECTIONS
3,3A-3D	ACQUISITION TABLE AND PROPERTY MAPS
4-8	PRESENT LAYOUT
4A-8A	PROPOSED LAYOUT
4B-6B,8B	PROPOSED PROFILES
6C	R.O.W. DETAILS
9,9A	SIDE ROAD PROFILES
10	PRIVATE DRIVE PROFILES
11,11A-11C	DRAINAGE MAPS
12,12A-12B	CULVERT CROSS SECTIONS
13	EPSC NOTES
14-18	EPSC PLAN CLEARING & GRUBBING
14A-17A	EPSC PLAN INTERMEDIATE PHASE
14B-18B	EPSC PLAN FINAL PHASE
19	NOT USED
20-36	MAINLINE CROSS SECTIONS
37-47	SIDE ROAD CROSS SECTIONS

SHEET 18A NOT USED

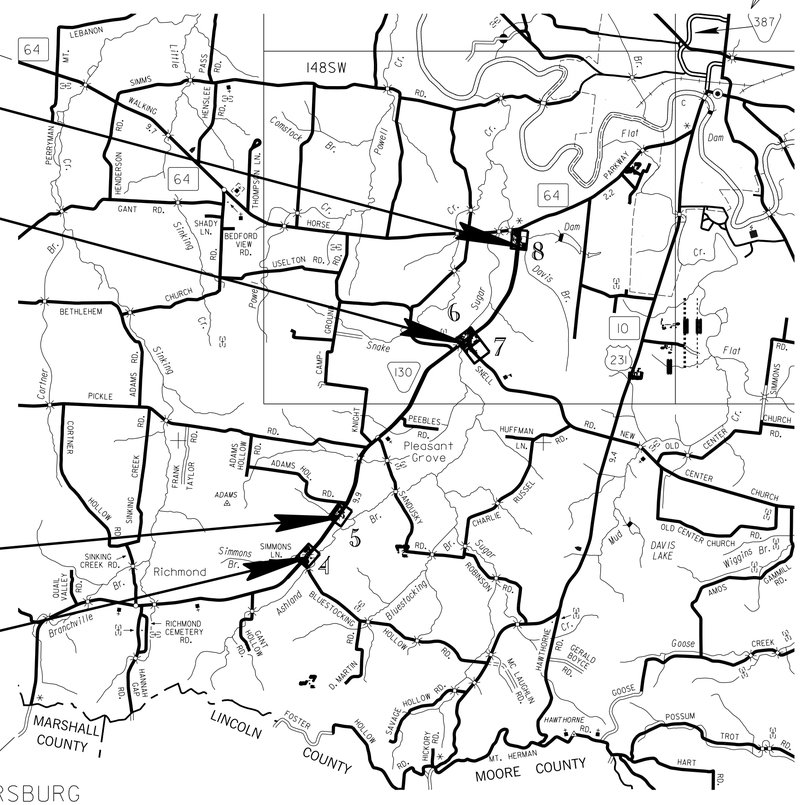


LM 9.83 02014-2212-94
PROJ. NO. BR-STP-130(20) R.O.W.
BEGIN STA. 514+75.00, END STA. 521+75.00

LM 8.30 02014-2212-94
PROJ. NO. BR-STP-130(20) R.O.W.
BEGIN STA. 434+90.00, END STA. 443+65.00

LM 5.45 02014-2212-94
PROJ. NO. BR-STP-130(20) R.O.W.
BEGIN STA. 284+75.00, END STA. 290+25.00

LM 4.77 02014-2212-94
PROJ. NO. BR-STP-130(20) R.O.W.
BEGIN STA. 249+75.00, END STA. 254+00.00



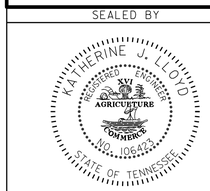
SCALE: 1"= 5280'

EXCLUSIONS	
STATION TO STATION	LENGTH (FT.)
254+00.00-284+75.00	3075.00
290+25.00-434+90.00	14465.00
443+65.00-514+75.00	7110.00
T O T A L =	24650.00

NO EQUATIONS

R.O.W. PLANS

SEALED BY



L.M.'S 4.77 & 5.45

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PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

SPECIAL NOTES

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LM 4.77 LENGTH	0.080 MILES
LM 5.45 LENGTH	0.104 MILES
LM 8.30 LENGTH	0.165 MILES
LM 9.83 LENGTH	0.132 MILES
TOTAL R.O.W. LENGTH	0.481 MILES

ORIGINAL SURVEY: 01/15/13
SURVEY UPDATE: 06/20/13

TDOT ROAD SP. SV. 2 ROBERT BRAUN, P.E.

DESIGNER CLAYTON MARKHAM, P.E CHECKED BY LARRY PARKER

P.E. NO. 02014-1212-94, (DESIGN)

PIN NO. 115673.00

7-JUL-2015 10:08
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONSTY001r.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	1A

INDEX

SHEET NAME	SHEET NO.
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ESTIMATED BRIDGE QUANTITIES	2A1
ESTIMATED UTILITIES QUANTITIES	2B
TYPICAL SECTIONS AND PAVING SCHEDULE	2C – 2E
GENERAL NOTES AND SPECIAL NOTES	2F – 2I
TABULATED QUANTITIES	2J – 2K
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PROPOSED PROFILES	4B – 6B & 8B
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PRIVATE DRIVE AND FIELD RAMP PROFILES	10
DRAINAGE MAPS	11 – 11C
CULVERT SECTIONS	12 – 12B
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) NOTES	13
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EPSC PLANS (CLEARING & GRUBBING STAGE)	14 – 18
EPSC PLANS (INTERMEDIATE STAGE)	14A – 18A
EPSC PLANS (FINIAL STAGE)	14B – 18B
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TRAFFIC CONTROL PHASE 2	20A – 24A
TRAFFIC CONTROL PHASE 3	20B – 24B
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ROADWAY CROSS SECTIONS	26 - 40
SIDE ROAD CROSS SECTIONS	41 - 49
UTILITIES INDEX	U1-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1
NATURAL STREAM DESIGN PLAN INDEX	NS-1

STANDARD BRIDGE DRAWINGS

DWG. NO	REV.	DESCRIPTION
BRIDGE APPURTENANCES ENGLISH (LRFD BOX CULVERTS)		
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS – SKEW NOT LESS THAN 45 DEGREE
STD-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' – 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-51		BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL
STD-17-139		SLAB BRIDGE, 2 BARRELS AT 14', CLEAR HTS. 5' - 7', 0 - 60' FILL
STD-17-140		SLAB BRIDGE, 2 BARRELS AT 14', CLEAR HTS. 8' - 11', 0 - 60' FILL

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
RD-L-8		STANDARD LEGEND FOR NATURAL STREAM DESIGN
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-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
DRAINAGE - CULVERTS AND ENDWALLS		
D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-9	04-25-90	CONCRETE ENDWALLS TYPE "B" (FOR ROUND & SIDE TAPERED INLETS, PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)
D-PE-9A	10-25-82	GENERAL DIMENSION QUANTITIES ROUND PIPE CONCRETE ENDWALLS TYPE "B" (PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)
D-PE-9C		BILL OF STEEL (SHEET 1 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEW, 2:1 SLOPE)
D-PE-9E		BILL OF STEEL (SHEET 3 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEWS, 2:1 SLOPE)
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

17-JUL-2015 10:08
\\AG03SDCWF0001Q.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LWB/2S 4,77,5,45,9,83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\11673-00 -CONST\001A Index.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	1A1

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
DRAINAGE - CATCH BASINS AND MANHOLES		
D-CB-38RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
ROADWAY AND PAVEMENT APPURTENANCES		
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
SAFETY APPURTENANCES AND FENCE		
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-RP-2	01-19-99	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
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-PL-6	12-01-14	SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GRS-1		SPECIAL CASE LONG SPAN GUARDRAIL, ONE SPAN OMITTED
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
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	05-01-15	GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS

DWG. NO	REV.	DESCRIPTION
TRAFFIC CONTROL APPURTENANCES		
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
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-WZ-32	10-29-13	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-33	05-27-98	TRAFFIC CONTROL PLAN FOR CLOSE INTERSECTION CONDITIONS USING TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-34	09-01-05	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-35	04-02-12	TRAFFIC CONTROL PLAN PAY ITEM AND SIGN DETAILS FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG. NO	REV.	DESCRIPTION
SIGNING APPURTENANCES		
T-S-6	02-12-91	STANDARD MOUNTING DETAILS – BOLTED EXTRUDED PANELS
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-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHZ001	Environmental Division, Hazardous Materials	An Asbestos Containing Material (ACM) survey was conducted on the four brides in this project. No ACM was detected. No special accommodations for demolition and waste disposal are anticipated for this structure and the material can be deposited in a C&D landfill. Prior to the demolition 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 Tennessee Division of Air Pollution Control (Standard Specifications for Road and Bridge Construction Sections 107.08 D and 202.03).	LMs 4.77, 5.45, 9.83 and 8.30

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PROJECT COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1)(2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	5518
(2)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	22118
(3)	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	100
	203-06	WATER	M.G.	266
	204-08	FOUNDATION FILL MATERIAL	C.Y.	12
(4)	209-02.04	10" TEMPORARY SLOPE DRAIN	L.F.	50
(4)	209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.	115
(4)	209-05	SEDIMENT REMOVAL	C.Y.	125
(4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	6700
(4)	209-08.07	ROCK CHECK DAM PER	EACH	15
(4)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	14
(4)	209-08.09	FILTER SOCK CHECK DAM	EACH	35
(4)	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	10
(4)	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	1
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	12319
(5)	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	972
(4)(6)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	200
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	956
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1326
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	21
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	85
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	5
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	326
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	712
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	1
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	750
(7)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	42
(7)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	7042
	604-07.01	RETAINING WALL (SR-130 LM 9.83 RT BEGIN STA. 518+00.00)	S.F.	495
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	136
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	140
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	289
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	44
	610-07.03	18" PIPE DRAIN (BRIDGE DRAIN)	L.F.	200
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	8
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	561
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
	611-07.64	36IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	1
(4)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	270
(4)	621-03.08	54" TEMPORARY DRAINAGE PIPE	L.F.	40
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	216
	705-01.04	METAL BEAM GUARD FENCE	L.F.	150
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	2088
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	4
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	7
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	15
	705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	211
(8)	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	22
	706-01	GUARDRAIL REMOVED	L.F.	240
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	39
	709-01.02	RUBBLE STONE RIP-RAP	TON	16
(4)(9)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	360
(4)(10)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	60
(11)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	1789
(12)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	3391

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	4200
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	250
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	32
	712-06	SIGNS (CONSTRUCTION)	S.F.	2067
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	80
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	25840
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	210
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	713-16.20	SIGNS (STOP AHEAD) (SYMBOL)	EACH	3
	713-16.21	SIGNS (STOP)	EACH	2
	716-01.21	SNOW PLOWABLE PAVEMENT MARKERS (BI-DIR)(1 COLOR)	EACH	34
(13)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	50
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	6
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	4
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	2
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	2
	717-01	MOBILIZATION	LS	1
(14)	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	4
(15)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	725
(4)(16)	740-11.05	TEMPORARY SEDIMENT TUBE 24IN (DESCRIPTION)	L.F.	2850
(17)	801-01	SEEDING (WITH MULCH)	UNIT	1
(4)(18)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	123
(19)	801-02	SEEDING (WITHOUT MULCH)	UNIT	22
(4)(20)	801-03	WATER (SEEDING & SODDING)	M.G.	139
(4)(21)	803-01	SODDING (NEW SOD)	S.Y.	12808
(4)	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	3303
(4)	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	75
(22)	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	100

FOOTNOTES

(1) INCLUDES 650 CY FOR TEMPORARY BERMS, 900 CY FOR TEMPORARY CONSTRUCTION EXITS, 40 CY FOR CULVERT PROTECTION (TYPE 1) AND 10 CY FOR TEMPORARY SLOPE DRAINS.
(2) REFER TO SPECIAL NOTES ON SHEET NO. 2I.
(3) TO BE USED FOR AREAS OF EXISTING PAVEMENT THAT ARE TO BE SCARIFIED AND OBLITERATED.
(4) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
(5) INCLUDES 761 TONS FOR SLAB BRIDGES AND 211 TONS FOR BOX CULVERT
(6) TO BE USED FOR CULVERT PROTECTION (TYPE 1) AND SEDIMENT FILTER BAGS.
(7) QUANTITY FOR BOX CULVERT ONLY
(8) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
(9) TO BE USED FOR TEMPORARY CONSTRUCTIONS EXITS.
(10) INCLUDES 47 TONS FOR CULVERT PROTECTION (TYPE 1) AND 13 TONS FOR TEMPORARY SLOPE
(11) INCLUDES 956 TONS FOR BRIDGE ENDS.
(12) INCLUDES 3138 TONS FOR BRIDGE ENDS.
(13) 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.
(14) SEE TRAFFIC CONTROL PLANS FOR POSSIBLE LOCATION AND QUANTITY OF SIGNAL HEADS NEEDED. SIGNALS WILL BE REQUIRED ON SIDE ROADS AND PRIVATE DRIVES.
(15) INCLUDES 72 SY FOR SPECIAL DITCHES AND 566 SY FOR TEMP. CONST. EXITS AND 86 SY FOR CULVERT PROTECTION (TYPE 1).
(16) INCLUDES 200 LF FOR CULVERT PROTECTION (TYPE 2) AND 2650 LF FOR LINEAR EPSC.
(17) TO BE USED FOR AREAS OF ROADWAY THAT ARE TO BE ABANDONED, SCARIFIED AND SEEDED.
(18) TO BE USED AS DIRECTED BY THE ENGINEER
(19) TO BE USED WITH TURF REINFORCEMENT MAT
(20) INCLUDES 15 MG FOR SPECIAL DITCHES
(21) INCLUDES 1508 SY FOR SPECIAL DITCHES
(22) TO BE USED WITH STANDARD DRAWING NO. STD-17-20.

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ESTIMATED ROADWAY QUANTITIES

7-JUL-2015 10:10
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/25 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I5673-00 -CONST\002A Roadway 0.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2A1

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
202-04.50	REMOVAL OF STRUCTURES (STEEL I BEAM, L = 24', STA.251+75)	LS	1
202-04.51	REMOVAL OF STRUCTURES (STEEL I BEAM, L = 26', STA.287+85.5)	LS	1
604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	422
604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	74941

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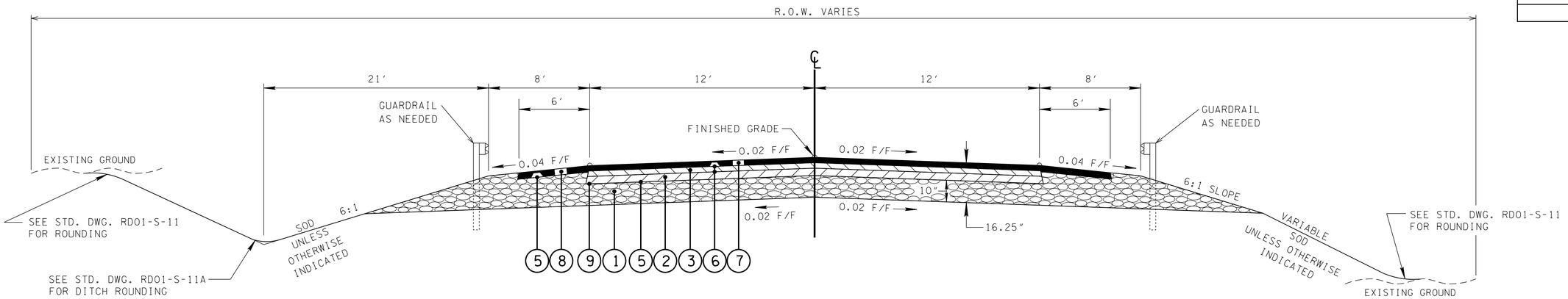
ESTIMATED BRIDGE QUANTITIES

7-JUL-2015 10:11
\\AG03SDCWF0010\net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\11673-00 -CONST\002A1Bridge 0.SHT

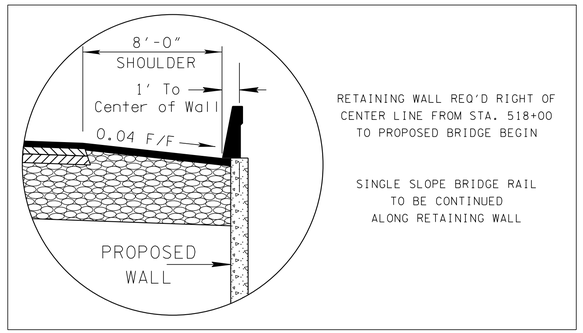
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	2
CONST.	2015	BR-STP-130(20)	2C



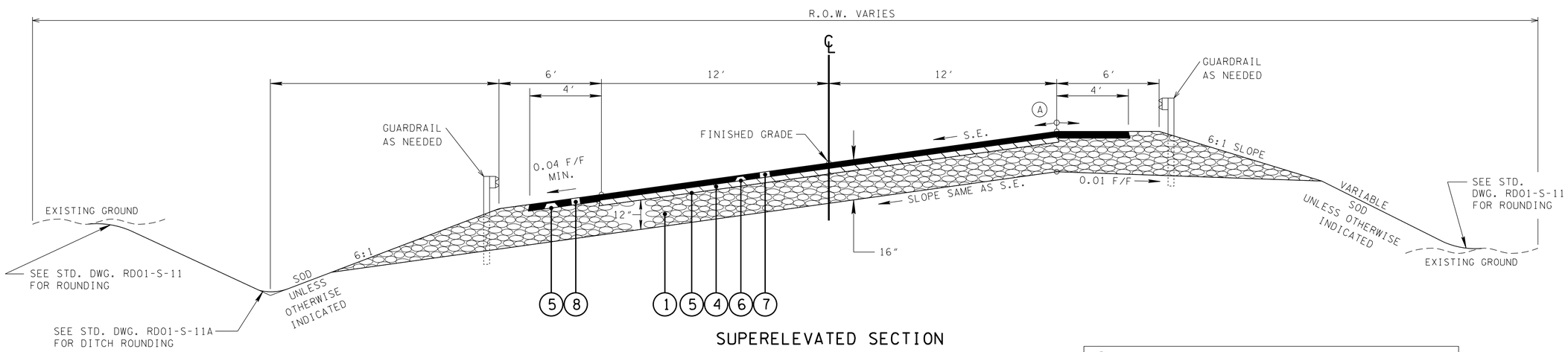
TANGENT SECTION
S.R. 130

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

LM 4.77 FROM STA. 250+00.00 TO STA. 254+00.00 (400′)
LM 5.45 FROM STA. 284+75.00 TO STA. 290+25.00 (550′)
LM 8.30 FROM STA. 435+50.00 TO STA. 438+15.00 (265′)
LM 8.30 FROM STA. 440+25.00 TO STA. 443+00.00 (275′)
LM 9.83 FROM STA. 514+75.00 TO STA. 518+65.00 (390′)
LM 9.83 FROM STA. 519+77.00 TO STA. 521+75.00 (198′)
(Total Roadway Length 2,078′)
(Total Bridge Length 322′)



FOR PROPOSED PAVEMENT SCHEDULE SEE SHEET 2D



SUPERELEVATED SECTION
SNELL ROAD

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

FROM STA. 20+12.00 TO STA. 30+00.00 (988′)

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

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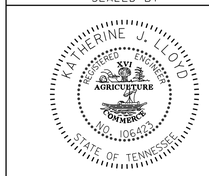

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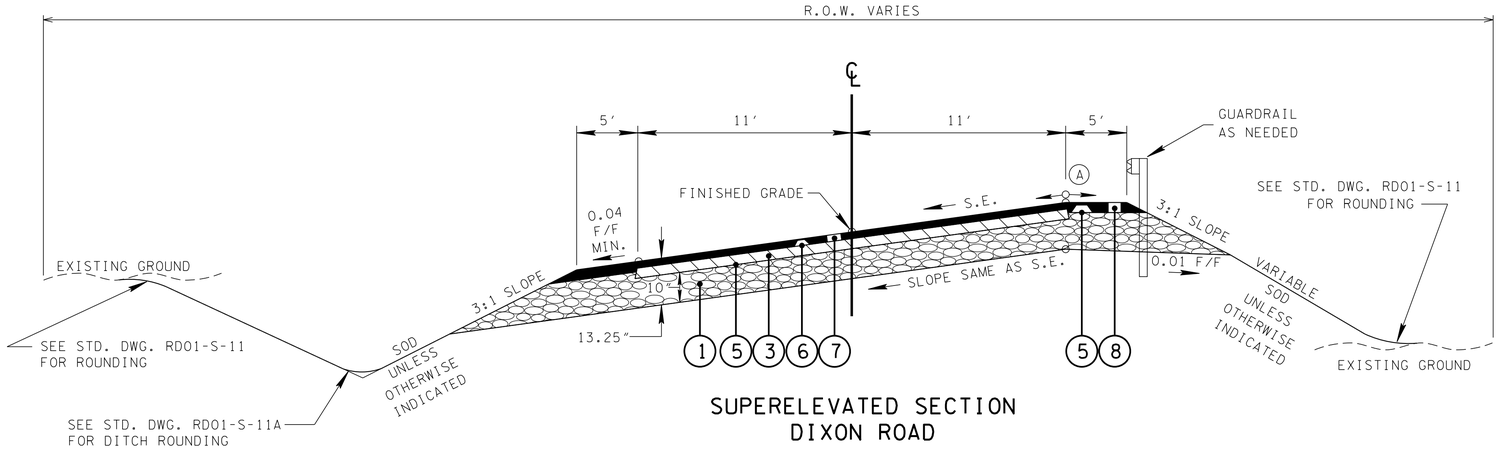
TYPICAL SECTIONS

7-JUL-2015 10:11
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/xs 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONSTY002C Typ.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	2A
CONST.	2015	BR-STP-130(20)	2D



SUPERELEVATED SECTION DIXON ROAD

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

FROM STA. 12+00.00 TO STA. 17+04.46 (504.46')

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

PROPOSED PAVEMENT SCHEDULE

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

(2) BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "A" @ 3.00" THICK (APPROX. 345 LB./S.Y.)
307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"

(3) BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "BM-2" @ 2.00" THICK (APPROX. 226 LB./S.Y.)
307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(4) BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "BM-2" @ 2.75" THICK (APPROX. 310.75 LB./S.Y.)
307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(5) PRIME COAT
402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.35 GALLONS/S.Y.
402-02 AGGREGATE FOR COVER MATERIAL (PC) AT 12 LB./S.Y.

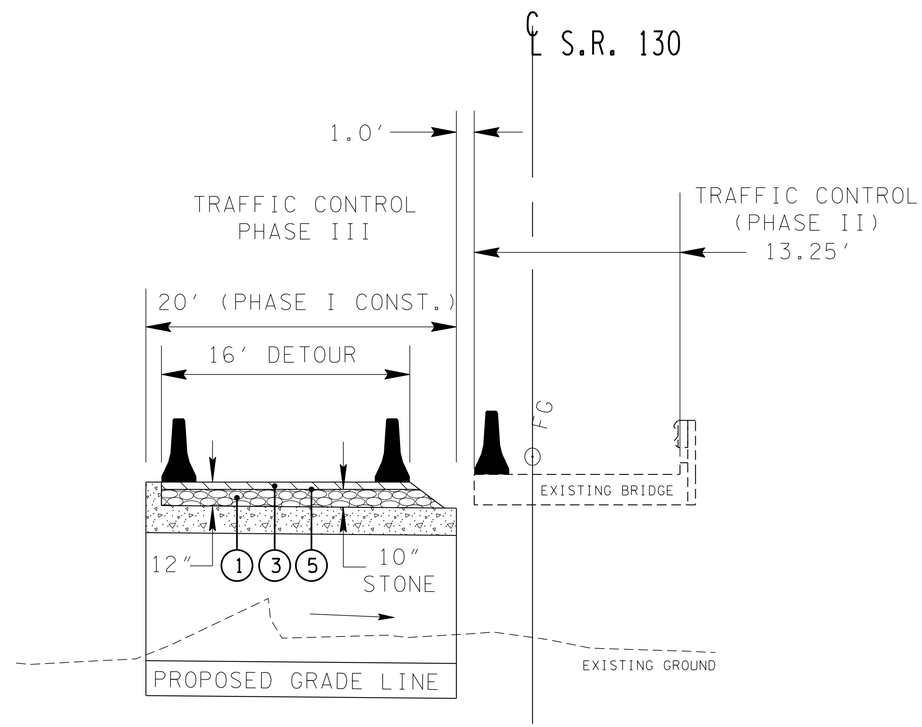
(6) TACK COAT
403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GALLONS/S.Y.

(7) ASPHALTIC CONCRETE SURFACE (HOT MIX) PG64-22 GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.)
411-01.10 ACS MIX (PG64-22) GRADING D

(8) ASPHALTIC CONCRETE SURFACE (HOT MIX) PG64-22 GRADING "E" SHOULDERS @ 1.50" THICK (APPROX. 154.5 LB./S.Y.)
411-01.07 ACS MIX (PG64-22) GRADING E SHOULDER

(9) COLD PLANING (APPROX 105 LB./S.Y./INCH DEPTH)
415-01.01 COLD PLANING BITUMINOUS PAVEMENT

TO BE USED IF NEEDED TO CONSTRUCT THE PROPOSED DETOUR FOR BRIDGES AT L.M. 4.77 AND 5.45 OR AS DIRECTED.



TRAFFIC CONTROL PHASE III
TYPICAL SECTION FOR BRIDGE AT
L.M. 4.77 & 5.45

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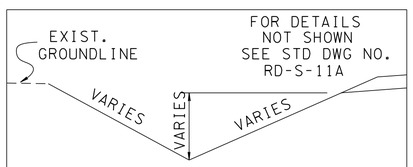
TYPICAL SECTIONS AND PAVEMENT SCHEDULE

7-JUL-2015 10:11
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONSTY002D Typ.SHT

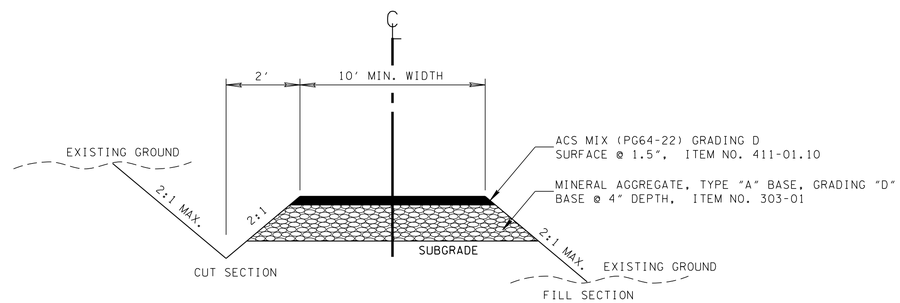
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2E



PROP. "V" BOTTOM SODDED/TRM DITCH LT.
DETAIL 1

S.R. 130
FROM STA. 285+05.00 TO STA. 286+25.00
FROM STA. 437+55.00 TO STA. 437+96.00
FROM STA. 515+25.00 TO STA. 519+90.00

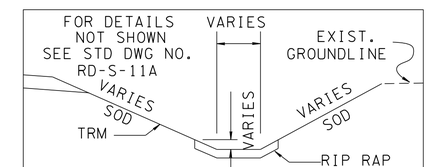
DIXON RD.
FROM STA. 13+50.00 TO STA. 13+75.00
FROM STA. 13+75.00 TO STA. 16+00.00
FROM STA. 16+00.00 TO STA. 16+60.00



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

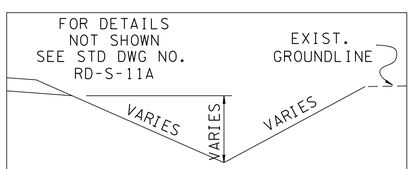
TYPICAL SECTION

PRIVATE DRIVE, FIELD, OR RESIDENTIAL PROPERTY



PROP. FLAT BOTTOM RIP RAP DITCH RT.
DETAIL 7

S.R. 130
FROM STA. 519+20.00 TO STA. 520+00.00

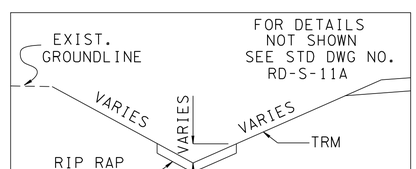


PROP. "V" BOTTOM SODDED/TRM DITCH RT.
DETAIL 2

S.R. 130
FROM STA. 284+75.00 TO STA. 285+25.00
FROM STA. 520+20.00 TO STA. 521+75.00

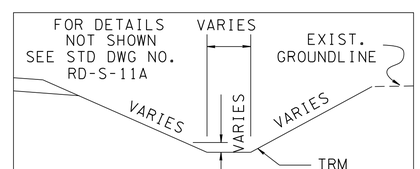
SNELL ROAD
FROM STA. 20+52.00 TO STA. 20+65.00
FROM STA. 20+65.00 TO STA. 21+75.00
FROM STA. 22+55.00 TO STA. 26+30.00

DIXON RD.
FROM STA. 12+05.00 TO STA. 14+40.00



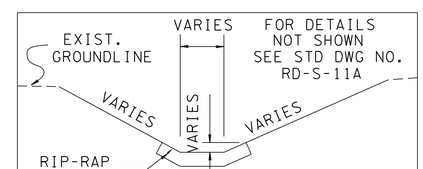
PROP. "V" BOTTOM RIP RAP DITCH LT.
DETAIL 3

S.R. 130
FROM STA. 287+90.00 TO STA. 288+15.00
FROM STA. 514+75.00 TO STA. 515+25.00



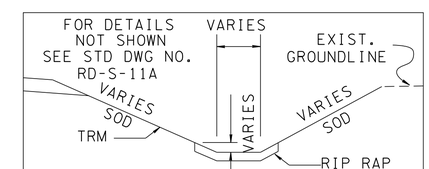
PROP. FLAT BOTTOM TRM DITCH RT.
DETAIL 4

SNELL ROAD
FROM STA. 26+74.00 TO STA. 27+24.00
FROM STA. 28+13.00 TO STA. 28+45.00
FROM STA. 28+45.00 TO STA. 30+00.00



PROP. FLAT BOTTOM RIP-RAP
INDEPENDENT DITCH
DETAIL 5

S.R. 130
FROM STA. 437+96.00 TO STA. 438+35.00
FROM STA. 438+03.00 TO STA. 438+23.00



PROP. FLAT BOTTOM RIP RAP DITCH RT.
DITCH DETAIL FOR RIPRAP APRON
DETAIL 6

S.R. 130
FROM STA. 439+25.00 TO STA. 439+73.00
FROM STA. 439+60.00 TO STA. 440+50.00

SNELL ROAD
FROM STA. 27+24.00 TO STA. 27+86.00

FOR PROPOSED PAVEMENT SCHEDULE SEE SHEET 2D

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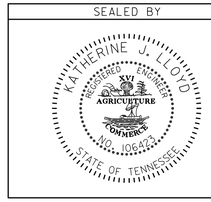

STATE OF TENNESSEE
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TYPICAL SECTIONS

7-JUL-2015 10:11
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\002E Typ.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2F

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

(1) 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. 803-01 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

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

GUARDRAIL

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

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

DRAINAGE

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

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

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

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

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

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

FENCING

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

MISCELLANEOUS

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

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

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

ROAD CLOSURE

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

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

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

(2) FOR SR 130:
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. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.

FINAL PAVEMENT MARKING

(3) FOR SR 130:
PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

(4) FOR COUNTY ROADS:
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.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

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

PAVEMENT

PAVING

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

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

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

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GENERAL NOTES

17-JUL-2015 10:11
\\AG03SDCWF000I0.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SRI30\Construction Turn In\I5673-00 -CONST\002F Notes.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2G

GENERAL NOTES

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

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

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

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

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

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

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

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

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

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

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

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

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

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

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

SEDIMENT CONTROL

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

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

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

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

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

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

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

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

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GENERAL NOTES

17-JUL-2015 10:12
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM^2/$_{2S}$ 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I5673-00 -CONST\002G Notes.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2H

GENERAL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL CONTINUED

STREAM/WETLAND

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

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

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

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

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

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

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

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

SPECIES

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

INSPECTION, MAINTENANCE, REPAIR

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

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

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

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

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

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

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

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

MATERIALS

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

SWPPP, PERMITS, PLANS, RECORDS

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

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

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

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

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

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

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

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

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

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

17-JUL-2015 10:13
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\002H Notes.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	21

GENERAL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL CONTINUED

LITTER, DEBRIS, WASTE, PETROLEUM

(15) 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.

(16) 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.

(6) ALL COST TO REMOVE EXISTING PIPES THAT ARE LABELED TO BE REMOVED IN THE PLANS OR AS DIRECTED SHALL BE INCLUDED IN ITEM NO. 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

(1) IF THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

(3) (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

RETAINING WALLS

(1) THE (RIGHT-OF-WAY/EASEMENT) BETWEEN STATION 518+00 TO STATION 518+46 SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED HERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.

(2) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON THE RETAINING WALL SHEET(S).

(3) VALUE ENGINEERING CHANGE PROPOSALS WILL NOT BE ACCEPTED FOR RETAINING WALLS. (ITEM NUMBER(S): 604-07.01)

(4) ALL COST OF BUILDING, INSTALLING AND BACKFILLING THE RETAINING WALL SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 13, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

SEASONAL CONSTRUCTION

(1) ALL IN-STREAM WORK IN SUGAR CREEK SHOULD BE SCHEDULED DURING THE LOW FLOW SEASON, JUNE 1ST THROUGH OCTOBER 31ST. COFFER DAMS SHALL BE USED TO PREVENT THE FLOWING WATERS OF SUGAR CREEK FROM CONTACTING UNCURED CEMENT, CONCRETE DUST AND OTHER SUBSTANCES THAT ARE TOXIC TO AQUATIC LIFE.

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GENERAL NOTES AND SPECIAL NOTES

17-JUL-2015 10:13
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\11673-00 -CONST\002\Notes.SHT
Sugar Creek LM 8.30 SR130 Construction Turn In

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2J

BOX CULVERT TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX CULVERT CLASS A CONCRETE 604-01.01 CU. YD.	BOX CULVERT REINFORCING STEEL 604-01.02 LBS.	✡ RIP-RAP CLASS C 709-05.09 (TON)	DRAWING NO.	GRANULAR BACKFILL ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL ITEM 204-08 DWG. STD-10-1 C.Y.
0+53.50	SNELL RD. PRIVATE DRIVE	6	3	29	88° RT	131.5	42	7042	253	STD-17-51	211	12
TOTALS							**42**	**7042**	**253**		**211**	**12**

✡ QUANTITY INCLUDED IN THE DITCHES AND LININGS TABULATION BLOCK, SHEET NO. 2K

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS 303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)	411-01.07 (TON)
LM 4.77	1460.0	184.0	120.5	2.4	9.6	0.6	70.7	41.2
LM 4.77 Detour	204.0	0.0	40.2	0.0	0.0	0.1	0.0	0.0
LM 5.45	2007.0	253.0	165.7	3.3	13.2	0.9	97.2	56.7
LM 5.45 Detour	561.0	0.0	110.5	0.0	0.0	0.3	0.0	0.0
LM 8.30	1971.0	248.5	162.9	3.3	13.0	0.9	95.4	56.0
LM 9.83	2146.0	270.5	177.5	3.6	14.2	1.0	103.8	61.0
Dixon Rd	1240.0	0.0	139.3	2.7	10.8	0.5	81.7	43.3
Snell Rd	2479.0	0.0	409.4	6.0	23.7	0.8	174.6	67.8
Private Drives	251.0						88.6	
TOTALS	**12319.0**	**956.0**	**1326.0**	**21.3**	**84.5**	**5.1**	**712.0**	**326.0**

SLAB BRIDGE TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA	CLASS "A" CONCRETE ITEM NO. 604-02.01 CU. YD.	REINFORCING STEEL ITEM NO. 604-02.02 LBS.	DRAWING NO.	GRANULAR BACKFILL ITEM 303-01.01 DWG. STD-10-1 TONS	REMARKS
251+70.00	SR 130	14	7	51	85° RT	2.37 S.M.	173	32846	STD-17-139	357	
287+85.00	SR 130	14	10	51	90°	320 AC	249	42095	STD-17-140	404	
TOTALS							**422**	**74941**		**761**	

CROSS DRAIN TABULATION

STATION	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 16 FT. 24"	36"	SKEW	◆ RIP-RAP CLASS B 709-05.08 (TON)	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	CLASS A CONCRETE ITEM NO. 611-07.01 (C.Y.)	REINFORCING STELL ITEM NO. 611-07.02 (LB.)	ENDWALL 4:1 ITEM NO. 611-07.64 (EA.)	REMARKS
Dixon Rd 16+50.00	136		90°	45	B	D-PE-9	B	D-PE-9	4.18	488		SEE DWG. D-PE-9A, C & E
Snell Rd 21+05.00		140	90°	109	A	D-PE-1	U	D-PE-36A & B	3.89	73	1	
TOTALS	**136**	**140**		**154**					**8.07**	**561**	**1**	

◆ QUANTITY INCLUDED IN THE DITCHES AND LININGS TABULATION BLOCK, SHEET NO. 2K

R.O.W. MARKERS

SHEET NO.	QUANTITIES "A"	"B"	"C"	TOTALS
4	0	4	4	**8**
5	0	4	4	**8**
6C	1	3	11	**15**
8	0	4	4	**8**
TOTALS	**1**	**15**	**23**	**39**

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	BRIDGE END GUARDRAIL 705-01.01 (L.F.)	METAL BEAM FENCE 705-01.04 (L.F.)	SINGLE TYPE 2 GUARDRAIL 705-02.02 (L.F.)	TERMINAL TYPE 13 705-04.03 (EACH)	TYPE 21 705-04.04 (EACH) (L=25.0')	TYPE IN-LINE 705-04.05 (EACH)	TYPE 38 705-04.07 (EACH) (L=46.9')	REMARKS
4A	SR130		20.00	250+60.0	252+78.8		37.50	87.50				2	
4A	SR130	20.00		250+60.0	252+78.8		37.50	87.50				2	
5A	SR130	20.00		286+30.0	289+48.8		37.50	187.50				2	
5A	SR130		20.00	286+30.0	289+98.8		37.50	237.50				2	
6A	SR130		20.00	435+91.2	437+83.9	27.00		118.75				1	
6A	SR130	20.00		435+85.5	436+56.9			25.00			1	1	
6A	SR130	20.00		437+22.1	438+23.9	27.00		81.25			1		
6A	SR130		20.00	440+16	440+69.9	27.00		37.50			1		
6A	SR130	20.00		440+56	441+20.0	27.00		62.50			1		
6A	SR130	20.00		441+40.0	442+59.6			100.00			1	1	
6A	SR130		20.00	441+24.4	442+64.7			100.00			1	1	
6A	DIXON RD		16.00	14+20.00	16+92.4			250.00		1			
6A	DIXON RD	16.00		16+30.9	16+78.2			25.00		1			
6A	SNELL RD	18.00		20+33.2	25+25.00			475.00		1			
6A	SNELL RD		18.00	20+44.7	21+10.1			37.50		1			
8A	SR130		20.00	516+03.7	518+02.5	27.00		125.00				1	
8A	SR130		20.00	519+69	520+42.8	27.00						1	
8A	SR130	20.00		518+19	518+73.0	27.00		50.00			1		
8A	SR130	20.00		520+09.0	520+82.8	27.00						1	
TOTALS						**216.00**	**150.00**	**2087.50**	**0**	**4**	**7**	**15**	

SIDE DRAIN TABULATION

STATION	LOCATION LT	LOCATION RT	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT. 18"	24"	ENDWALL 6:1 ITEM NO. 611-07.56 EACH	REMARKS
SR 130 253+16.82	X		16	26			NO END TREATMENT REQD.
SR 130 284+87.04	X		16	50			NO END TREATMENT REQD.
SR 130 516+65.61	X		12		22		NO END TREATMENT REQD.
DIXON RD 13+25.00	X		14	131		2	2 "U" ENDWALLS REQD. 6:1
DIXON RD 15+00.00	X		10	22			NO END TREATMENT REQD.
SR 130 441+30.00	X		16	60			NO END TREATMENT REQD.
SR 130 518+10.00	X		12		22		NO END TREATMENT REQD.
TOTALS				**289**	**44**	**2**	

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

7-JUL-2015 10:14
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\II5673-00 -CONST\002J Tab.SHT
over Sugar Creek LM 4.77,5.45,9.83 and over Branch LM 8.30

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	2K

DITCHES AND LININGS

ROAD	STATION FROM	STATION TO	SIDE LT	SIDE RT	SLOPE FORE (H:1)	SLOPE BOTTOM WIDTH (FT.)	SLOPE BACK (H:1)	DETAIL NO.	TYPE	TREATMENT RIP-RAP CLASS B (TONS)	TREATMENT RIP-RAP CLASS C TONS	TREATMENT GEOTEXTILE CLASS III (SY)	TREATMENT SOD (SY)	TREATMENT TRM CLASS II (SY)	TREATMENT TRM CLASS III (SY)	REMARKS
LM 5.45																
S.R. 130	285+05.00	286+25.00	X		6	0	4	1	ROADSIDE V					266.7		
S.R. 130	284+75.00	285+25.00		X	6	0	4	2	ROADSIDE V					111.1		INCLUDES SPECIAL DITCH
S.R. 130	287+90.00	288+15.00	X		3	0	6	3	ROADSIDE V	72.9		16.7			25.0	
LM 8.30																
S.R. 130	437+55.00	437+96.00	X		4	0	3	1	ROADSIDE V					63.8		SPECIAL DITCH
S.R. 130	437+96.00	438+35.00	X		3	2	3	5	ROADSIDE T	88.5				60.7		
S.R. 130	438+03.00	438+23.00	X		3	2	3	5	ROADSIDE T	45.4				31.1		
S.R. 130	439+25.00	439+73.00		X	3	2	3	5	INDEPENDENT T	108.9				74.7		
S.R. 130	439+60.00	440+50.00		X	3	2	2	4	ROADSIDE T	175.0				120.0		SPECIAL DITCH
DIXON RD.	13+50.00	13+75.00	X		3	0	2	1	ROADSIDE V	40.5				27.8		
DIXON RD.	12+05.00	14+40.00		X	3	0	3	2	ROADSIDE V					313.3		
DIXON RD.	13+75.00	16+00.00	X		6	0	4	1	ROADSIDE V				500.0			
DIXON RD.	16+00.00	16+60.00	X		6	0	2	1	ROADSIDE V					106.7		
SNELL RD.	20+52.00	20+65.00		X	4	0	3	2	ROADSIDE V				20.2			INCLUDES 2 SPECIAL DITCHES
SNELL RD.	20+65.00	21+75.00		X	4	0	3	2	ROADSIDE V				171.1			INCLUDES 2 SPECIAL DITCHES
SNELL RD.	22+55.00	26+30.00		X	4	0	3	2	ROADSIDE V				583.3			INCLUDES 2 SPECIAL DITCHES
SNELL RD.	26+74.00	27+24.00		X	3	2	3	4	ROADSIDE T					177.8		SPECIAL DITCH
SNELL RD.	27+24.00	27+86.00		X	3	6	3	6	ROADSIDE T		253.2			248.0		SPECIAL DITCH
SNELL RD.	28+13.00	28+45.00		X	3	6	4	4	ROADSIDE T					145.8		SPECIAL DITCH
SNELL RD.	28+45.00	30+00.00		X	3	2	4	4	ROADSIDE T					637.2		SPECIAL DITCH
LM 9.83																
S.R. 130	514+75.00	515+25.00	X		5	0	4	3	ROADSIDE V	145.8		55.6			50.0	SPECIAL DITCH
S.R. 130	515+25.00	518+90.00	X		6	0	4	1	ROADSIDE V					811.1		
S.R. 130	519+20.00	520+00.00		X	2	4	2	7	ROADSIDE T	155.6				106.7		
S.R. 130	520+00.00	521+75.00		X	3	0	3	2	ROADSIDE V				233.3			SPECIAL DITCH
TOTALS										**833**	**253**	**72**	**1508**	**3303**	**75**	

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\002K Tab.SHT
7-JUL-2015 10:15
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM9/32S 4.77,5.45,9.83 and over Sugar

GENERAL NOTES

UTILITIES

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

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

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

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

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

RIGHT - OF – WAY

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

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

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

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

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

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

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

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

UTILITY OWNERS

WATER & GAS:

BEDFORD COUNTY UTILITY DISTRICT
214 BETHANY LANE
SHELBYVILLE, TN 37162
CONTACT: WILLIE WEST
PHONE:(931)684-1667
distmgr@bcud.net

GAS:

SPECTRA ENERGY
(East Tennessee Natural Gas)
555 MARRIOT DRIVE., SUITE 600
NASHVILLE, TN 37214
CONTACT: ERIC McNEELY
OFFICE PHONE: (615)872-5182
emcneely@spectraenergy.com

ELECTRIC:

DUCK RIVER ELECTRIC MEMBERSHIP
1411 MADISON STREET
SHELBYVILLE, TN 37160
CONTACT: JEFF GRAVES
PHONE:(931)680-5850
jgraves@dremc.com

TELEPHONE:

AT&T
LIMITS OF SERVICE INCLUDE ALL 4 SITES
116 SOUTH CANON AVENUE
MURFREESBORO, TN 37129
CONTACT: KENNETH KORNEGAY
OFFICE PHONE:(615)848-2082
CELL PHONE: (615) 631-7221
kk4096@att.com

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	3
CONST.	2015	BR-STP-130(20)	3

REV. 08/21/14: CHANGED PROPERTY OWNERS FOR TRACT NOS. 8, 10, AND 19; TAX MAP NO. FOR TRACT NO. 19; PARCEL NO. FOR TRACT NOS. 10 AND 19; BOOK NO. FOR TRACT NOS. 3, 4, 8, AND 10; PAGE NO. FOR TRACT NOS. 2, 8, AND 10; AND TOTAL AREA AND AREA REMAINING FOR TRACT NO. 10.

REV. 04/06/15: REMOVED TRACT NOS. 18 AND 19.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
1	David D. Womack, Jr.	126	2.02	217	195	66.303		66.303	0.156		0.156	66.147					
2	Music Missions International, Inc.	126	3	230	536		122.106	122.106		0.191	0.191		121.915			3445	(1)
3	Joe W. and Mary Davidson	121	30	70	46	116.313		116.313	0.363		0.363	115.950					
4	Joe W. and Mary Davidson	121	30	70	46		47.172	47.172		0.393	0.393		46.779			3736	(1)
5	Pamela R. Ingraham	108	12.02	281	612	12.018		12.018	0.555		0.555	11.463					
6	Terry Randall Curlee	108	12.01	267	610		40.724	40.724		0.447	0.447		40.277			4253	(1)
7	Bedford County Dept. of Education	109	39	269	391		68.858	68.858		1.176	1.176		67.682				
8	Katherine W. McCullock and Mary Frances Costin	109	39	W3	247		1.804	1.804		0.265	0.265		1.539			905	(1)
9	Elizabeth H. Goad	108	9.01	267	771	93.225		93.225	0.190		0.190	93.035				0.230 AC	(1)
10	Charles F. Haskins and Jennie Haskins	109	4.03	320	705		59.200	59.200		1874 S.F.	1874 S.F.		59.157				
11	Micky J. and Jill L. Reese	100	24.05	145	493	4.182		4.182	1156 S.F.		1156 S.F.	4.155					
12	Harold K. and Alice K. Smith	100	22	267	928		22.612	22.612		0.173	0.173		22.439				
13	Ralph W. and Sandra Barnes	100	24.06	273	432	9.352		9.352	0.242		0.242	9.110					
14	Diane D. Willis	100	22.04	297	447		5.188	5.188		0.230	0.230		4.958				
15	Diane D. Willis	100	22.05	307	793		5.822	5.822		2578 S.F.	2578 S.F.		5.763				
16	Ralph W. and Sandra Barnes	100	24.02	273	432	30.914		30.914	0.275		0.275	30.639				0.107 AC	(1)
17	Bobby L. Parker, Jr. and Linda K. Parker	100	3.05	307	527		7.695	7.695		1617 S.F.	1617 S.F.		7.658				
18	~~Cemetery Greer Family~~	108	011.00	N/A	N/A	2.413		2.413				2.413					
19	~~W Alvis Jr. Turrentine and Dorris R. Turrentine~~	101	23	165	283	97.304		97.304				97.304					

(1) FOR EROSION CONTROL.

DISTURBED AREA		
IN BETWEEN SLOPE LINES.	7.238	AC.
15 FOOT WIDE STRIP OUTSIDE SLOPE LINES OR CONSTRUCTION EASEMENT OR PROPOSED RIGHT OF WAY.	2.665	AC.
TOTAL DISTURBED AREA.	9.903	AC.

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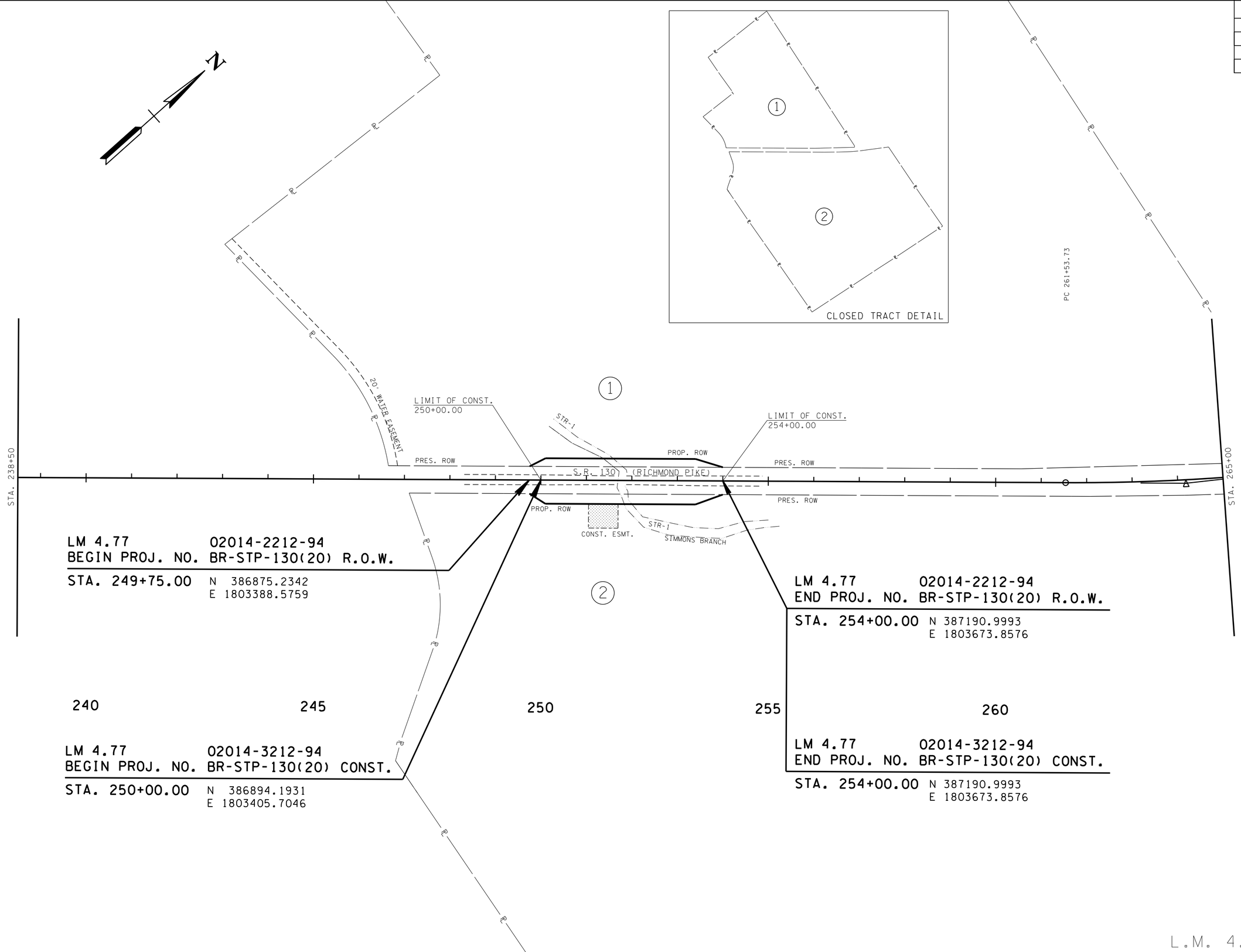
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

17-JUL-2015 10:15
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM^3/$_{2}$25 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\11673-00 -CONST\003 r040615.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	3A
CONST.	2015	BR-STP-130(20)	3A



LM 4.77 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 249+75.00 N 386875.2342
E 1803388.5759

LM 4.77 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 250+00.00 N 386894.1931
E 1803405.7046

LM 4.77 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 254+00.00 N 387190.9993
E 1803673.8576

L.M. 4.77

UNOFFICIAL SET

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
&
COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

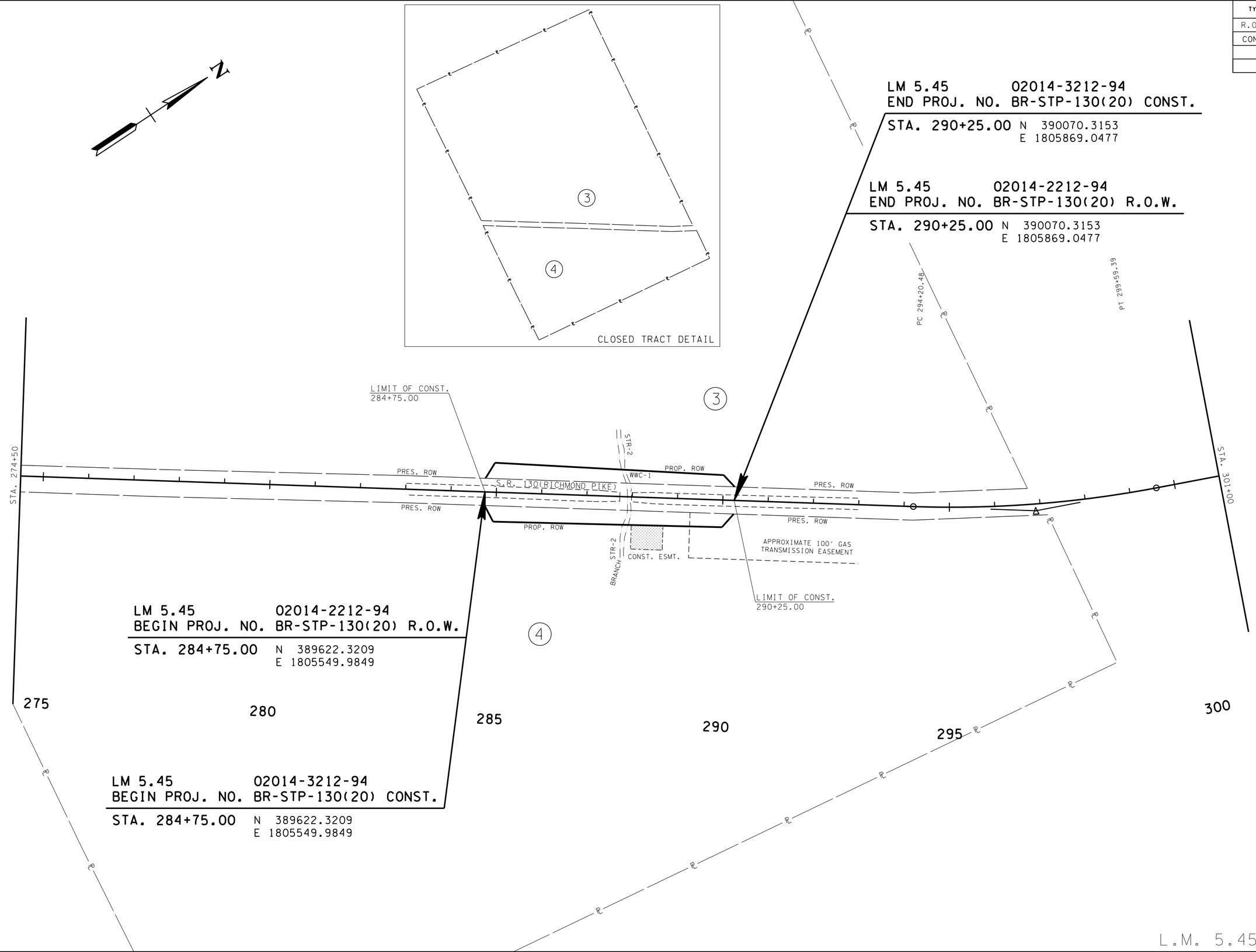
PROPERTY MAP

STA. 238+50 TO STA. 265+00

SCALE: 1"=100'

7-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130_Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\003A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	3B
CONST.	2015	BR-STP-130(20)	3B



LM 5.45 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 290+25.00 N 390070.3153
E 1805869.0477

LM 5.45 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 290+25.00 N 390070.3153
E 1805869.0477

LM 5.45 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 284+75.00 N 389622.3209
E 1805549.9849

LM 5.45 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 284+75.00 N 389622.3209
E 1805549.9849

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

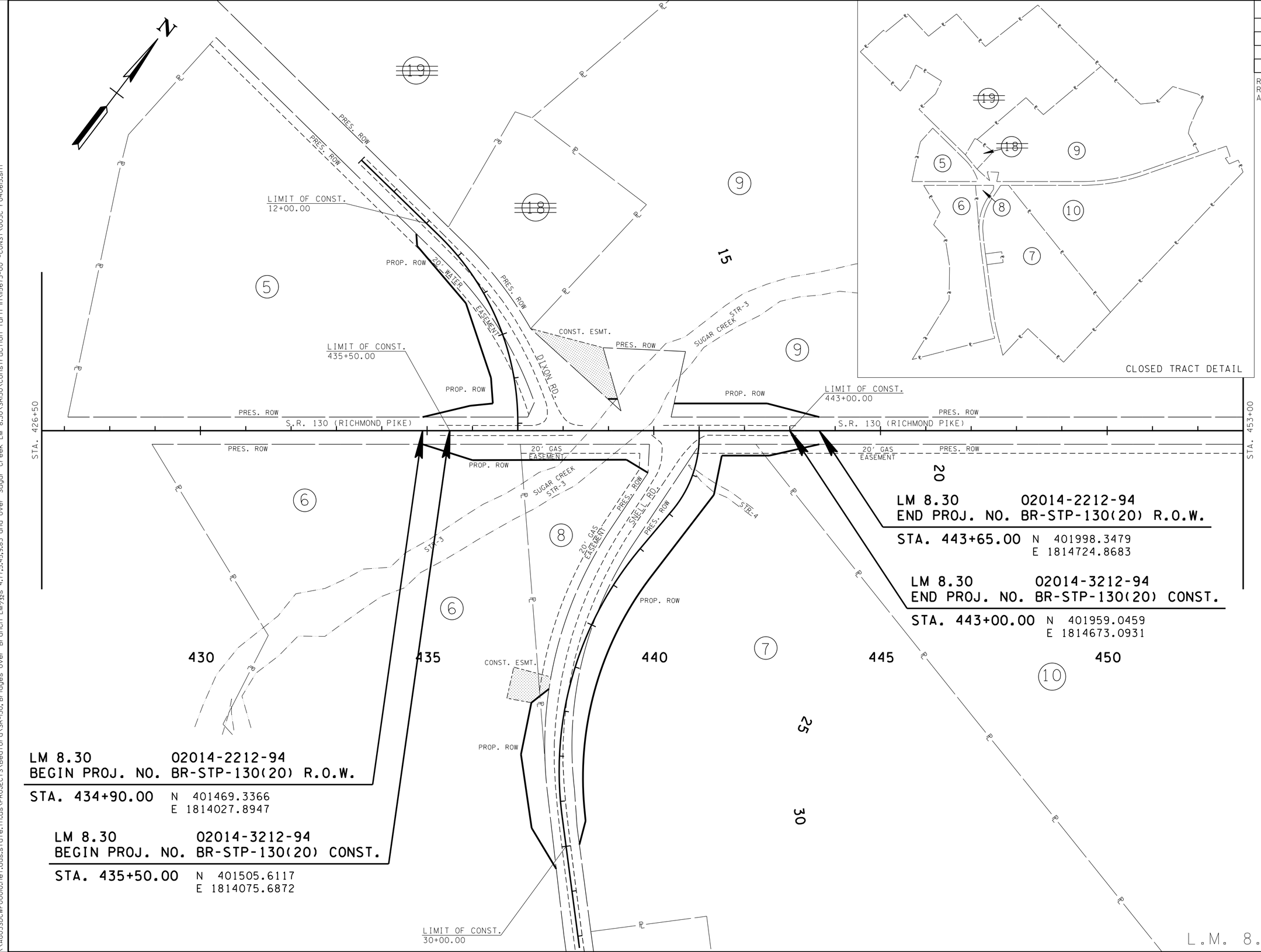
STA. 274+50 TO STA. 301+00

SCALE: 1"=100'

7-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5.25 as 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\003B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	3C
CONST.	2015	BR-STP-130(20)	3C

REV. 04/06/15: REMOVED PROPOSED RIGHT OF WAY FOR TRACT NO'S. 18 AND 19.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

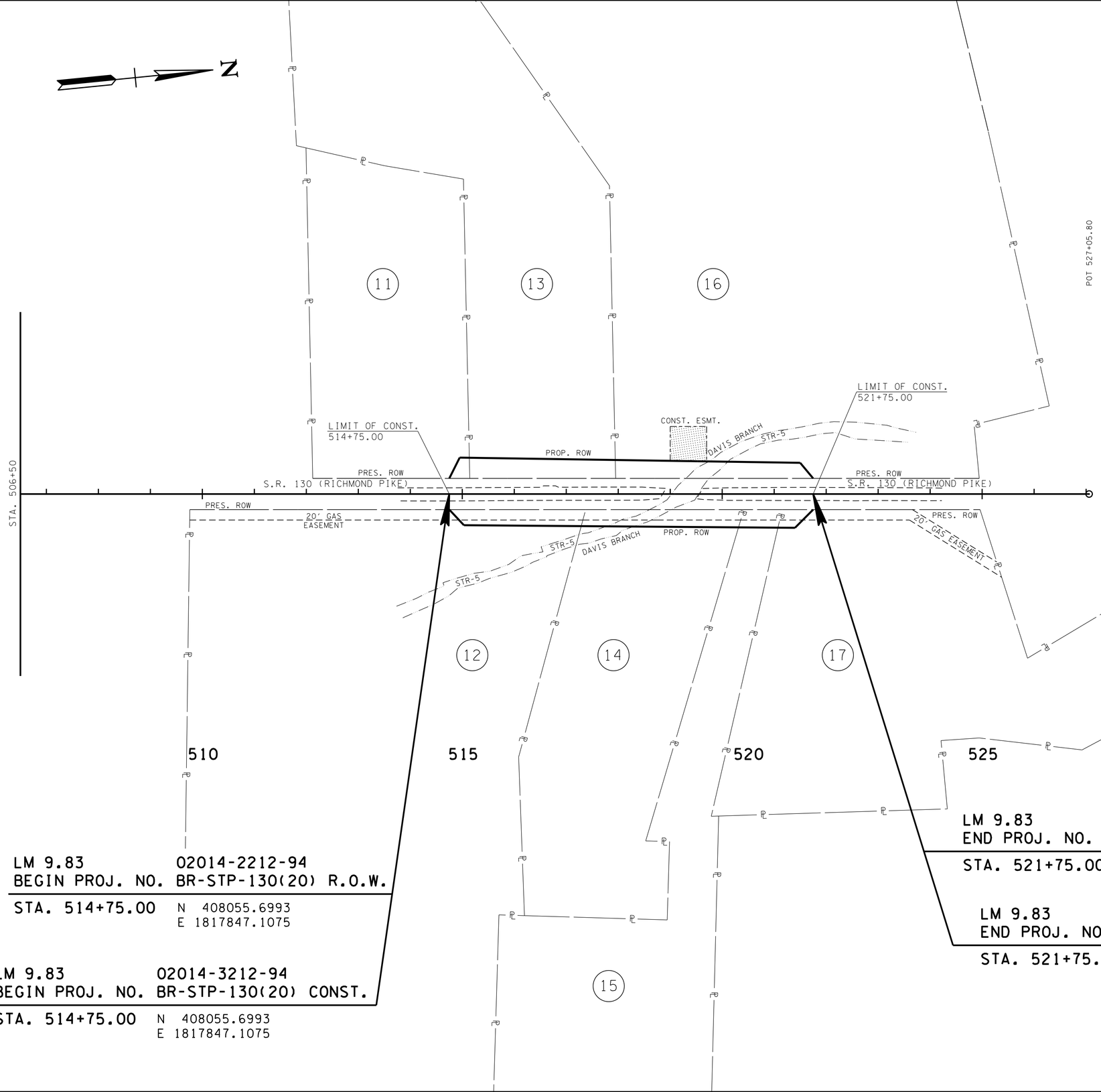
PROPERTY MAP

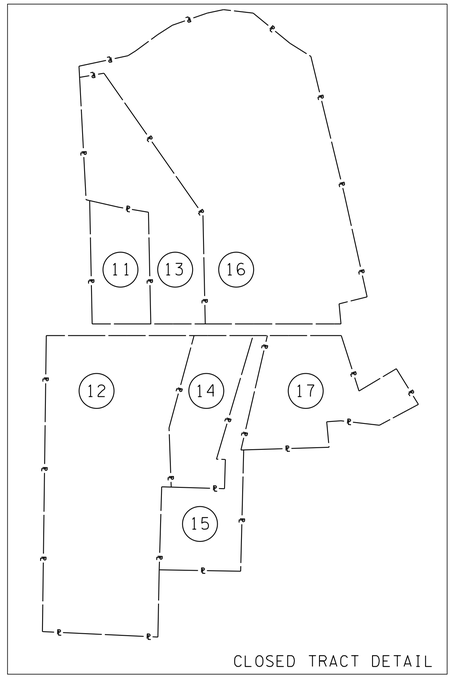
STA. 426+50 TO STA. 453+00

SCALE: 1"=100'

7-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\003C r040615.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	3D
CONST.	2015	BR-STP-130(20)	3D





UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 506+50 TO STA. 527+00

SCALE: 1"=100'

L.M. 9.83

7-JUL-2015 10:17
\\AG03SDCWF0001\0.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 9/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\0030.sht

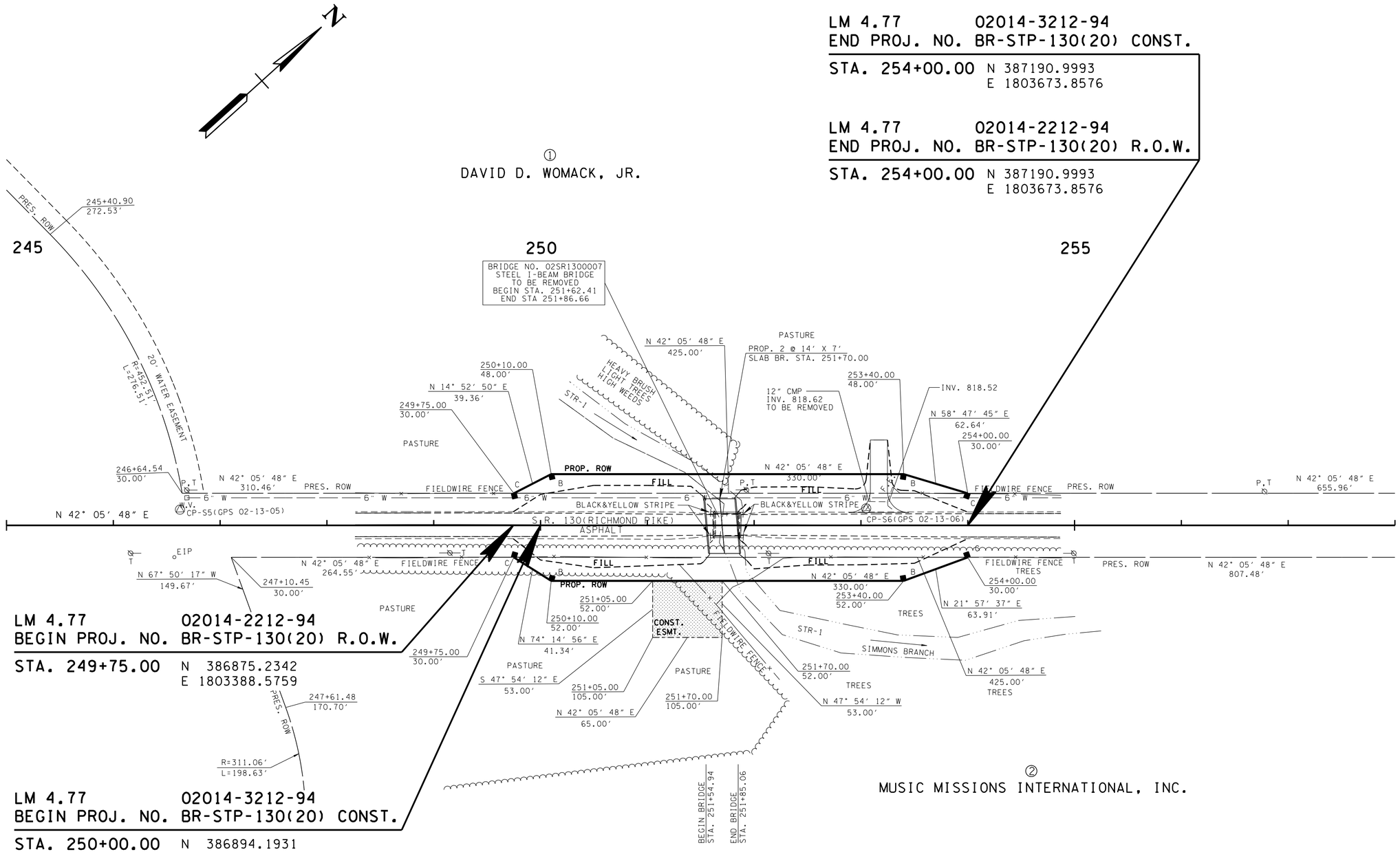
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	4
CONST.	2015	BR-STP-130(20)	4

LM 4.77 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 254+00.00 N 387190.9993
E 1803673.8576



LM 4.77 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 249+75.00 N 386875.2342
E 1803388.5759

LM 4.77 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 250+00.00 N 386894.1931
E 1803405.7046

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S5	386653.6021	1803168.5568	828.19	246+62.50	14.68' (LT)
S6	387131.0619	1803598.4063	821.06	253+04.94	15.81' (LT)

L.M. 4.77

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

17-JUL-2015 10:17
\\AGO3SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\004.sht
r Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\004.sht
as 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\004.sht

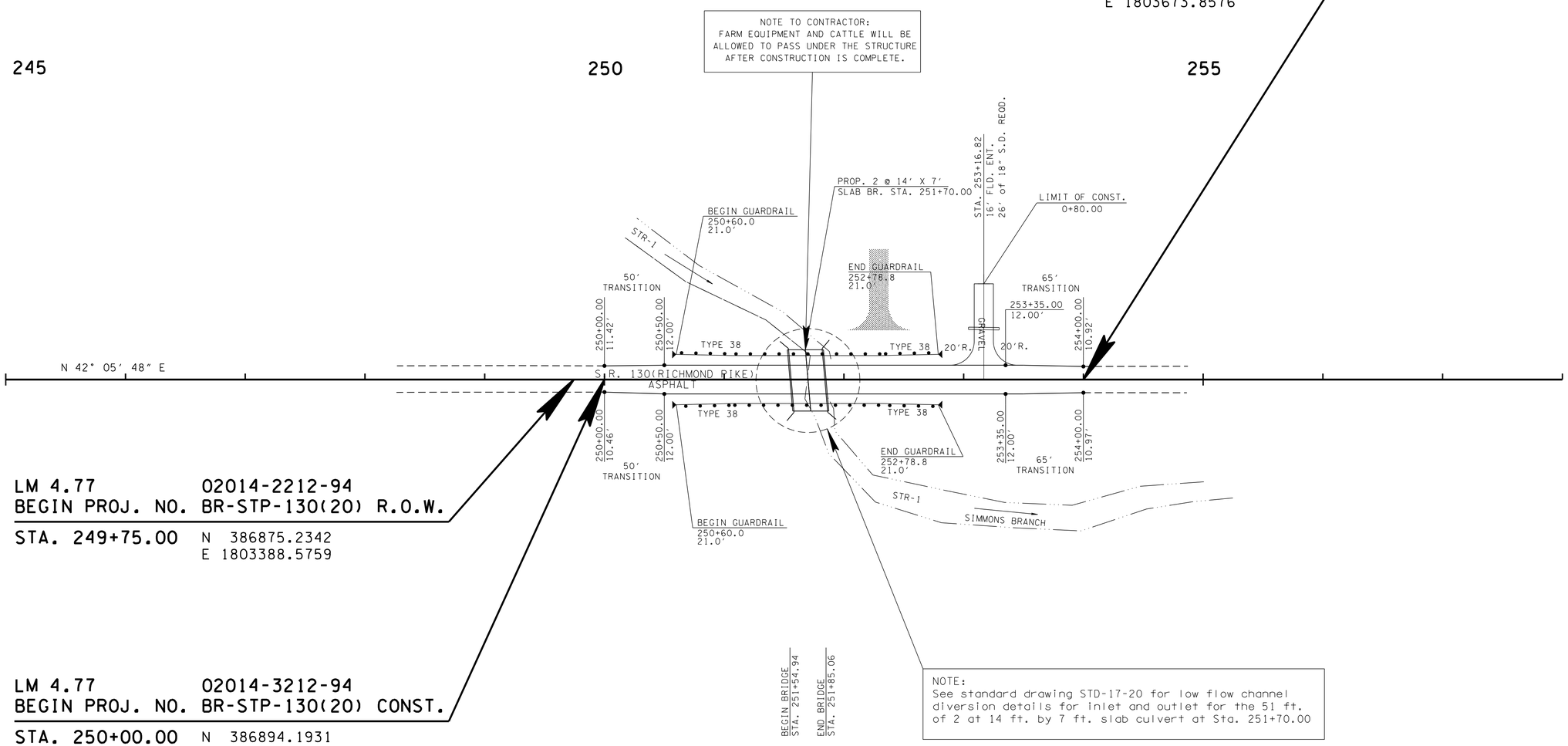
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	4A
CONST.	2015	BR-STP-130(20)	4A

LM 4.77 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 254+00.00 N 387190.9993
E 1803673.8576



NOTE:
See standard drawing STD-17-20 for low flow channel diversion details for inlet and outlet for the 51 ft. of 2 at 14 ft. by 7 ft. slab culvert at Sta. 251+70.00

LM 4.77 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 249+75.00 N 386875.2342
E 1803388.5759

LM 4.77 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 250+00.00 N 386894.1931
E 1803405.7046

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

L.M. 4.77

17-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\004A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	4B
CONST.	2015	BR-STP-130(20)	4B

EXC. (UNCL.)
COMMON 3,918 C.Y.
ROCK 0 C.Y.

EMB
EMB. 25,680 C.Y. (INCL.452 C.Y. FOR DRIVES)

SHR. 10%
SW. 15%
REQUIRED 22,118 C.Y. OF BORROW MATERIAL

MATCH EXISTING LEFT
MATCH EXISTING RIGHT

NORMAL CROWN

S.R. 130 (RICHMOND PIKE) STA. 251+78.26 = SIMMONS BRANCH L.M. 4.77 STA. 2+10.67

LM 4.77 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.
STA. 254+00.00

LM 4.77 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.
STA. 254+00.00

VPI 250+00.00
EL. 824.65

VPC 252+62.87
EL. 822.62

VPI 253+00.37
EL. 822.33

VPT 253+37.87
EL. 821.95

VPI 254+00.00
EL. 821.33

CP-5(GPS 02-13-05)
STA. 246+62.50, -14.68'(LT)
N 386653.6021
E 1803168.5568
ELEV 828.192
ALUM. DISK

EXISTING GROUNDLINE
S.R. 130 (RICHMOND PIKE)

FINISHED GRADE

CP-6(GPS 02-13-06)
STA. 253+04.94, -15.81'(LT)
N 387131.0619
E 1803598.4063
ELEV 821.059
ALUM. DISK

-0.77% -1.00%

6" W

S.R.130 LM 4.77
BRIDGE OVER SIMMONS BRANCH
BRIDGE NO. 02SR1300007

HIGH WATER
ELEV.=819±

NORMAL WATER
ELEV.=814.6

LM 4.77 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.
STA. 249+75.00

LM 4.77 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.
STA. 250+00.00

BEGIN BRIDGE
STA. 251+54.94

END BRIDGE
STA. 251+65.06

VC = 75.00'
K = 326
V = 60+ MPH

STATION	251+70.00
STRUCTURE	51' OF 2 @ 14' X 7' SLAB BR.
SKEW	85° RT
DRAINAGE AREA	2.37 S.M.
DESIGN DISCHARGE (Q100)	846 CFS
DESIGN DISCHARGE (Q500)	1090 CFS
OVERTOPPING ELEV.	821.33
ALLOWABLE HEADWATER ELEV.	
Q100 HEADWATER ELEV.	820.03
Q500 HEADWATER ELEV.	820.85
VELOCITY (Q100)	6.87 FT/S
VELOCITY (Q500)	7.00 FT/S
STANDARD DRAWING NUMBERS	STD-17-11,STD-17-139
OUTLET ELEVATION	812.76
INLET ELEVATION	813.07
CLASS "A" CONCRETE	173 C.Y.
STEEL BAR REINFORCING	32846 LB.

870 865 860 855 850 845 840 835 830 825 820 815 810 805 800 795 790 785 780 775

245+00 246+00 247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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

L.M. 4.77

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 245+00 TO STA. 258+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

7-JUL-2015 10:17
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 8.30\SR130\Construction Turn In\II5673-00 -CONST\004B.sht
Sugar Creek LM 4.77,5,45,9.83 and over Sugar Creek LM 8.30

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	5
CONST.	2015	BR-STP-130(20)	5

REV. 03/03/15: ADDED NOTE TO CONTRACTOR FOR TRACT NOS. 3 & 4.

LM 5.45 BEGIN PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.

STA. 284+75.00 N 389622.3209 E 1805549.9849

LM 5.45 END PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.

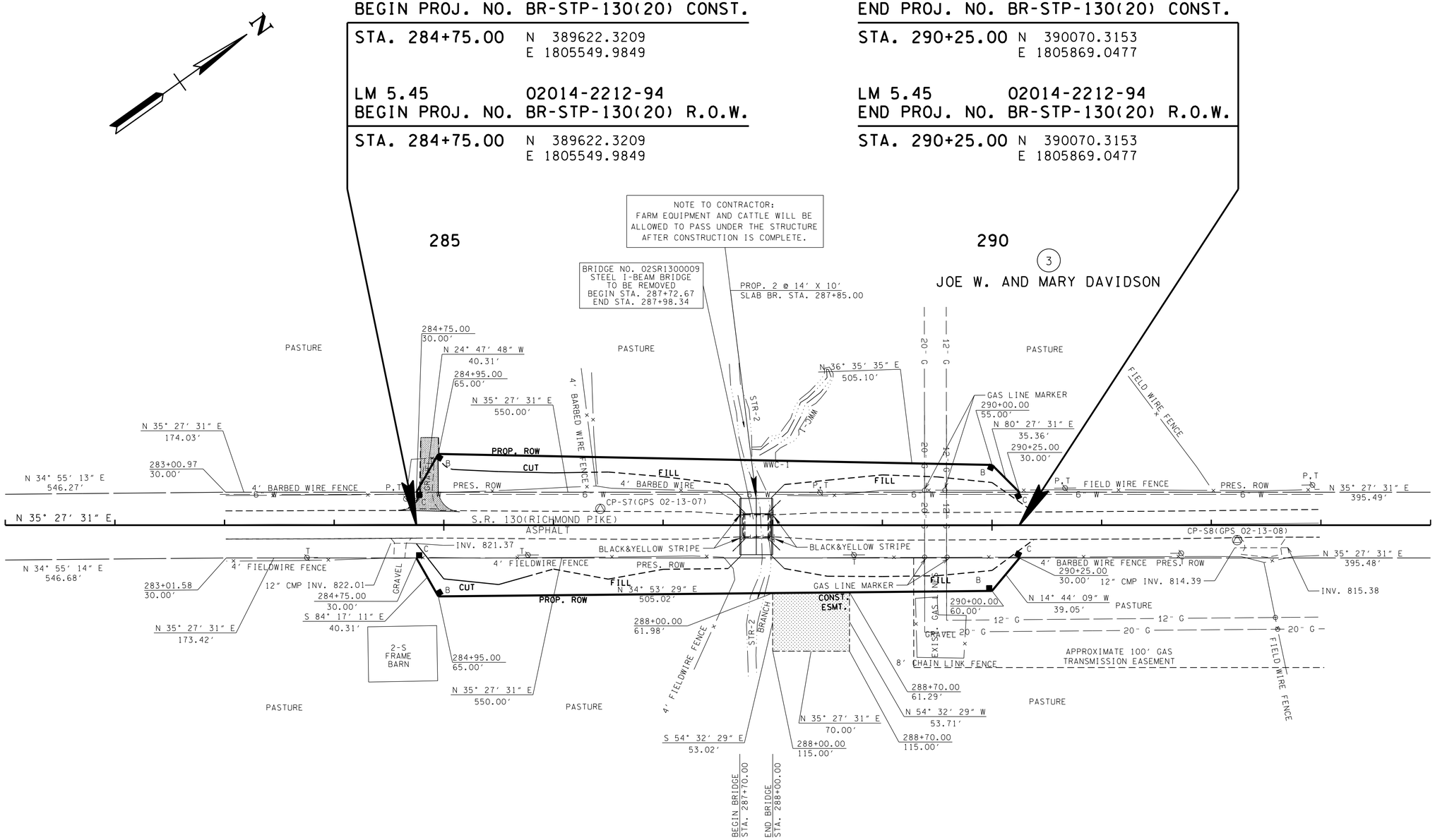
STA. 290+25.00 N 390070.3153 E 1805869.0477

LM 5.45 BEGIN PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.

STA. 284+75.00 N 389622.3209 E 1805549.9849

LM 5.45 END PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.

STA. 290+25.00 N 390070.3153 E 1805869.0477



CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S7	389767.5977	1805635.2587	816.80	286+42.80	14.82' (LT)
S8	390224.1958	1805995.4768	817.10	292+23.68	13.71' (RT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106473
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 281+00 TO STA. 294+00

SCALE: 1"= 50'

L.M. 5.45

7-JUL-2015 10:17
\\AGO3SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\005 r030315.sht
Sugar Creek LM 4.77,5.45,9.83 and over Branch LM 5.45

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	5A
CONST.	2015	BR-STP-130(20)	5A

REV. 03/03/15: ADDED NOTE TO CONTRACTOR.

REV. 05/01/15: ADJUSTED PROPOSED GUARDRAIL AND ADDED SPECIAL NOTE FOR PROP. GUARDRAIL INSTALLATION.

LM 5.45 BEGIN PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.

STA. 284+75.00 N 389622.3209 E 1805549.9849

LM 5.45 BEGIN PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.

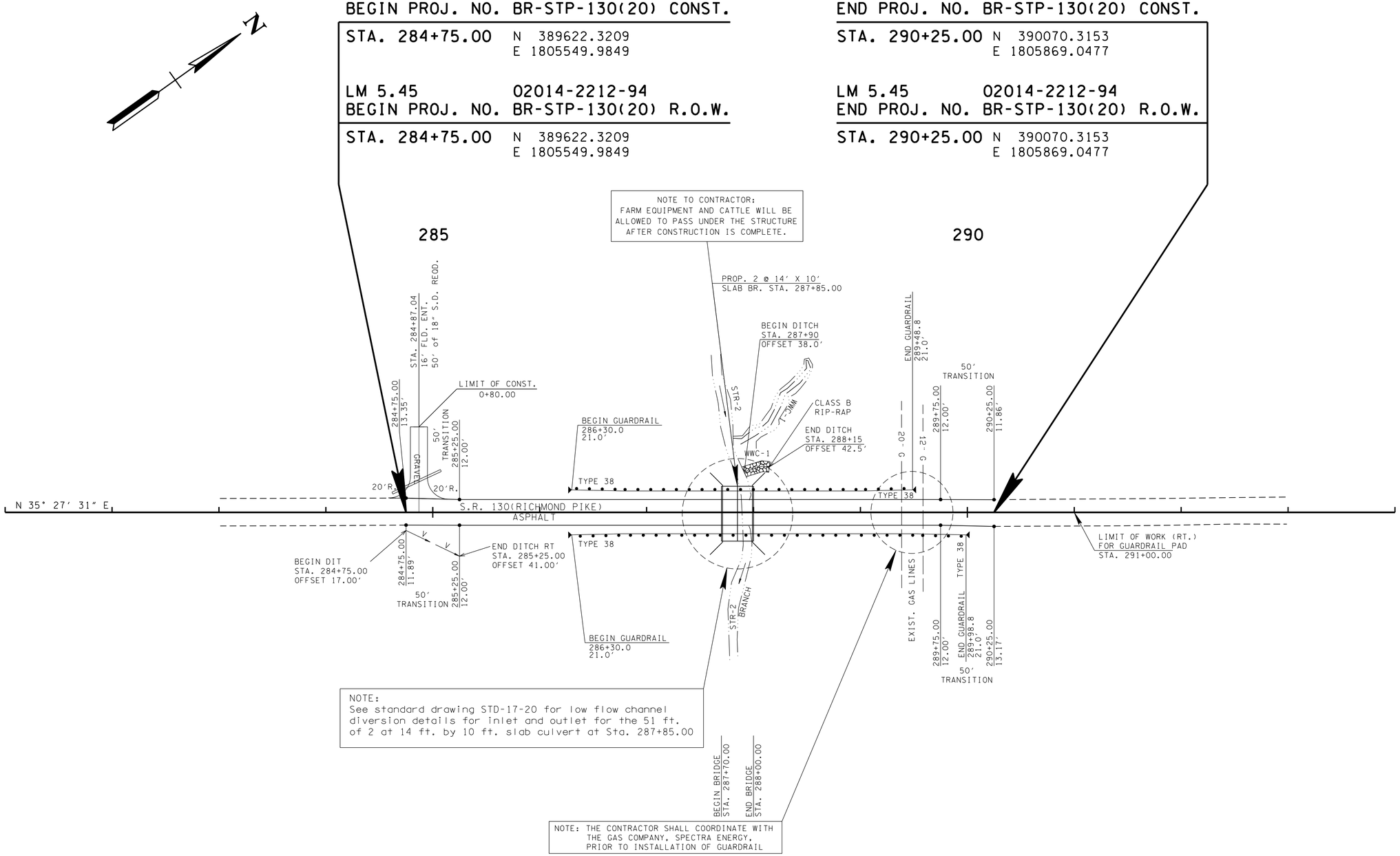
STA. 284+75.00 N 389622.3209 E 1805549.9849

LM 5.45 END PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.

STA. 290+25.00 N 390070.3153 E 1805869.0477

LM 5.45 END PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.

STA. 290+25.00 N 390070.3153 E 1805869.0477



NOTE:
See standard drawing STD-17-20 for low flow channel diversion details for inlet and outlet for the 51 ft. of 2 at 14 ft. by 10 ft. slab culvert at Sta. 287+85.00

NOTE: THE CONTRACTOR SHALL COORDINATE WITH THE GAS COMPANY, SPECTRA ENERGY, PRIOR TO INSTALLATION OF GUARDRAIL

NOTE: FOR SPECIAL DITCH DETAILS SEE SHEET NO. 2E.

L.M. 5.45

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

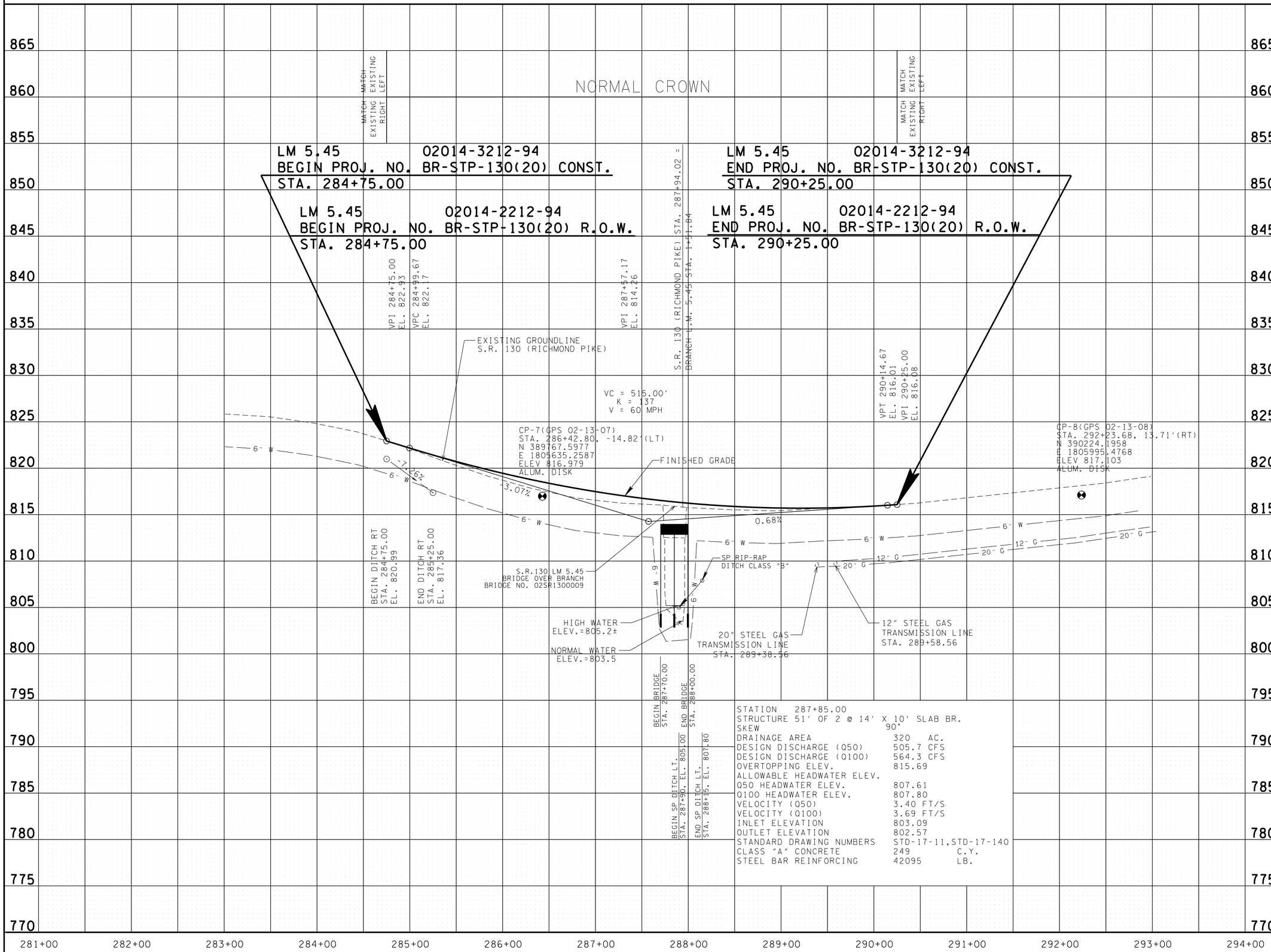
PROPOSED LAYOUT

STA. 281+00 TO STA. 294+00

SCALE: 1"= 50'

7-JUL-2015 10:17
\\AGO3SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\005A r050115.sht
r Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\005A r050115.sht
LM 4.77,5.45,9.83 and over Sugar

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	5B
CONST.	2015	BR-STP-130(20)	5B



STATION	287+85.00
STRUCTURE	51' OF 2 @ 14' X 10' SLAB BR.
SKEW	90°
DRAINAGE AREA	320 AC.
DESIGN DISCHARGE (Q50)	505.7 CFS
DESIGN DISCHARGE (Q100)	564.3 CFS
OVERTOPPING ELEV.	815.69
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	807.61
Q100 HEADWATER ELEV.	807.80
VELOCITY (Q50)	3.40 FT/S
VELOCITY (Q100)	3.69 FT/S
INLET ELEVATION	803.09
OUTLET ELEVATION	802.57
STANDARD DRAWING NUMBERS	STD-17-11,STD-17-140
CLASS "A" CONCRETE	249 C.Y.
STEEL BAR REINFORCING	42095 LB.

UNOFFICIAL SET

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SEALED BY

KATHERINE J. LLOYD
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NO. 106423
STATE OF TENNESSEE

L.M. 5.45

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 281+00 TO STA. 294+00

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

7-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5.45 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I5673-00 -CONSTV005B.sht

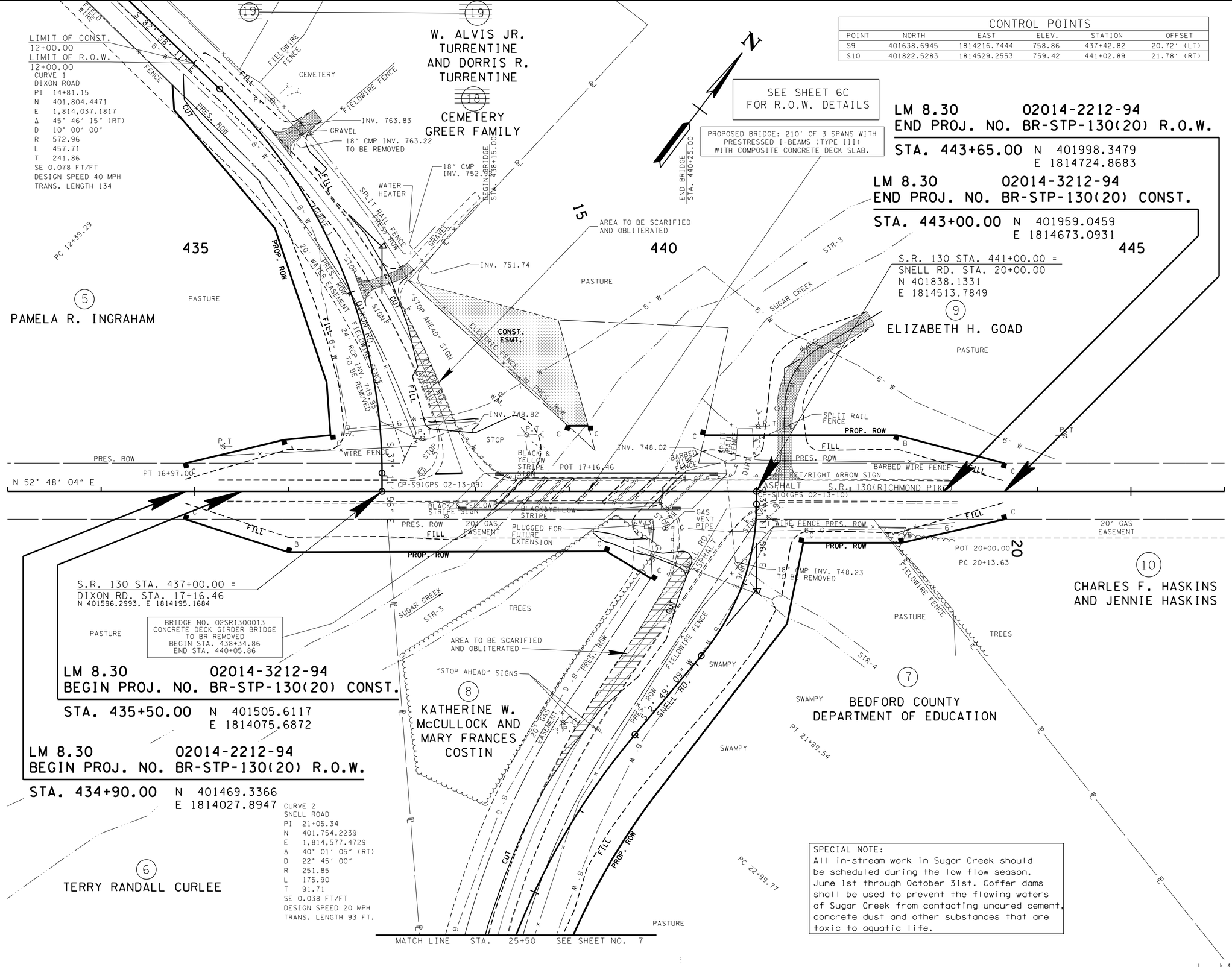
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	6
CONST.	2015	BR-STP-130(20)	6

REV. 08/21/14: CHANGED OWNER NAME ON TRACT NOS. 8, 10, AND 19.

REV. 04/06/15: REMOVED PROPOSED RIGHT OF WAY FOR TRACT NO'S. 18 AND 19. ADJUSTED SLOPE LINES ON DIXON RD. FROM STA. 12+00 TO STA. 13+75 LEFT.

REV. 06/22/15: REVISED PROPOSED FIELD ENT. AT STA. 441+30 LEFT.

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S9	401638.6945	1814216.7444	758.86	437+42.82	20.72' (LT)
S10	401822.5283	1814529.2553	759.42	441+02.89	21.78' (RT)



SEE SHEET 6C FOR R.O.W. DETAILS

PROPOSED BRIDGE: 210' OF 3 SPANS WITH PRESTRESSED I-BEAMS (TYPE III) WITH COMPOSITE CONCRETE DECK SLAB.

LM 8.30 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.
STA. 443+65.00 N 401998.3479 E 1814724.8683

LM 8.30 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.
STA. 443+00.00 N 401959.0459 E 1814673.0931

LM 8.30 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.
STA. 435+50.00 N 401505.6117 E 1814075.6872

LM 8.30 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.
STA. 434+90.00 N 401469.3366 E 1814027.8947

CURVE 2
SNELL ROAD
PI 21+05.34
N 401,754.2239
E 1,814,577.4729
Δ 40° 01' 05" (RT)
D 22° 45' 00"
R 251.85
L 175.90
T 91.71
SE 0.038 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 93 FT.

SPECIAL NOTE:
All in-stream work in Sugar Creek should be scheduled during the low flow season, June 1st through October 31st. Coffer dams shall be used to prevent the flowing waters of Sugar Creek from contacting uncured cement, concrete dust and other substances that are toxic to aquatic life.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 433+00 TO STA. 446+00

SCALE: 1"= 50'

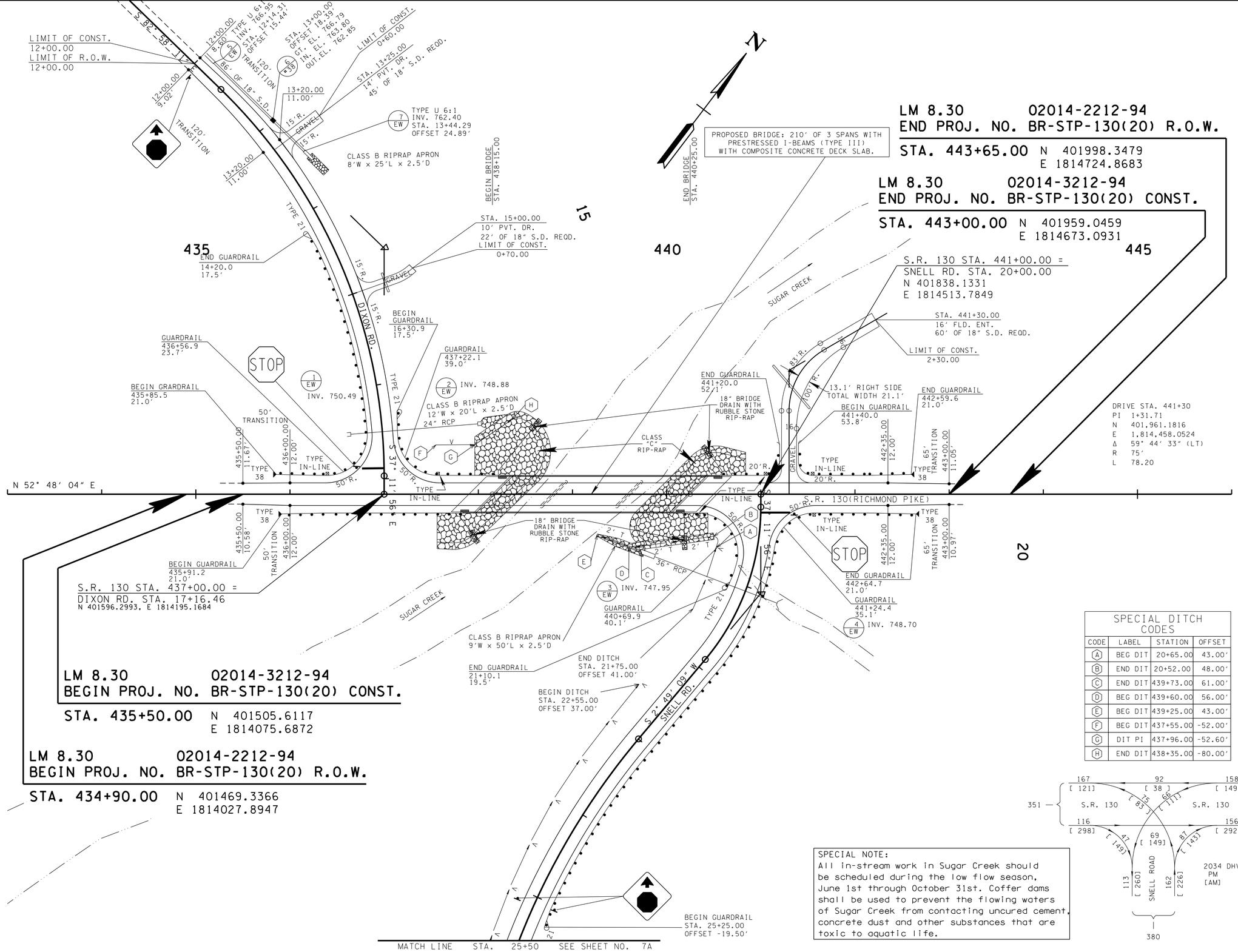
L.M. 8.30

7-JUL-2015 10:17
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/2ps 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\006 r062215.sht

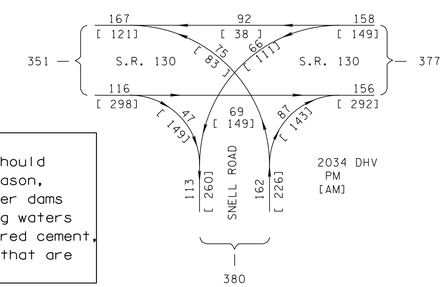
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	6A
CONST.	2015	BR-STP-130(20)	6A

REV. 04/06/15: REVISED PROPOSED DRAINAGE ON DIXON RD. FROM STA. 12+00 TO STA. 13+75 LEFT.

REV. 06/22/15: REVISED PROPOSED FIELD ENT. AT STA. 441+30 LEFT.



SPECIAL DITCH CODES			
CODE	LABEL	STATION	OFFSET
A	BEG DIT	20+65.00	43.00'
B	END DIT	20+52.00	48.00'
C	END DIT	439+73.00	61.00'
D	BEG DIT	439+60.00	56.00'
E	BEG DIT	439+25.00	43.00'
F	BEG DIT	437+55.00	-52.00'
G	DIT PI	437+96.00	-52.60'
H	END DIT	438+35.00	-80.00'



SPECIAL NOTE:
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 433+00 TO STA. 446+00

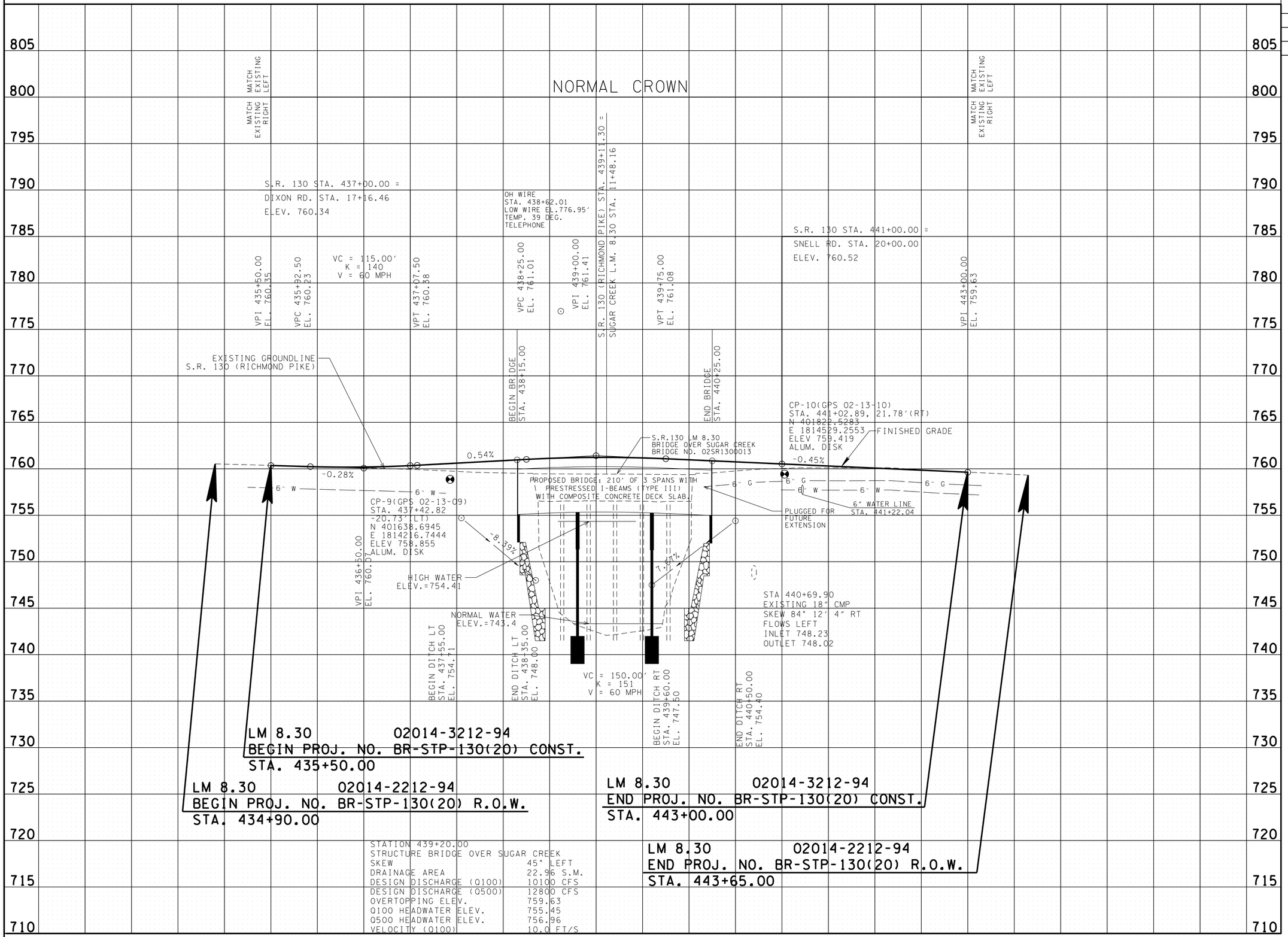
SCALE: 1"= 50'

NOTE: FOR SPECIAL DITCH DETAILS SEE SHEET NO. 2E.

L.M. 8.30

7-JUL-2015 10:17
\\AG03SDCWF0001\0.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM8/25 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\006A r062215.sht

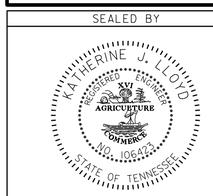
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	6B
CONST.	2015	BR-STP-130(20)	6B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



L.M. 8.30

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 433+00 TO STA. 446+00

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

7-JUL-2015 10:17
\\A03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5.25 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\006B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	6C
CONST.	2015	BR-STP-130(20)	6C

REV. 08/21/14: CHANGED OWNER NAME ON TRACT NOS. 8, 10, AND 19.

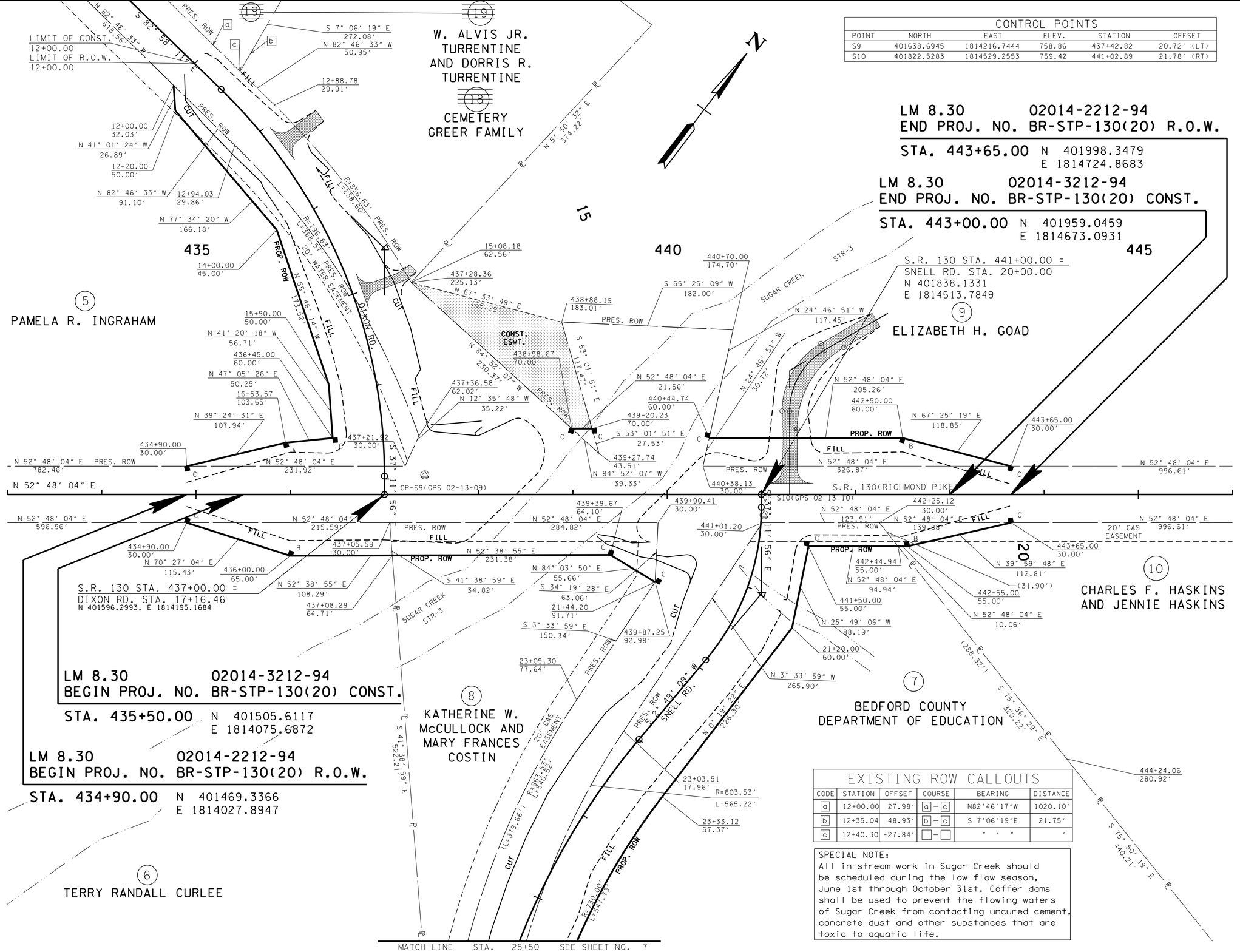
REV. 03/03/15: ADJUSTED EXISTING AND PROPOSED RIGHT OF WAY CALLS FOR TRACT NOS. 7, 10 & 18.

REV. 04/06/15: REMOVED PROPOSED RIGHT OF WAY FOR TRACT NO'S. 18 AND 19. ADJUSTED SLOPE LINES ON DIXON RD. FROM STA. 12+00 TO STA. 13+75 LEFT.

REV. 06/22/15: REVISED PROPOSED FIELD ENT. AT STA. 441+30 LEFT.

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S9	401638.6945	1814216.7444	758.86	437+42.82	20.72' (LT)
S10	401822.5283	1814529.2553	759.42	441+02.89	21.78' (RT)



EXISTING ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
a	12+00.00	27.98'	a – c	N82°46'17"W	1020.10'
b	12+35.04	48.93'	b – c	S 7°06'19"E	21.75'
c	12+40.30	-27.84'	–	° ' "	'

SPECIAL NOTE:
All in-stream work in Sugar Creek should be scheduled during the low flow season, June 1st through October 31st. Coffer dams shall be used to prevent the flowing waters of Sugar Creek from contacting uncured cement, concrete dust and other substances that are toxic to aquatic life.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OWNERS
No. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 433+00 TO STA. 446+00

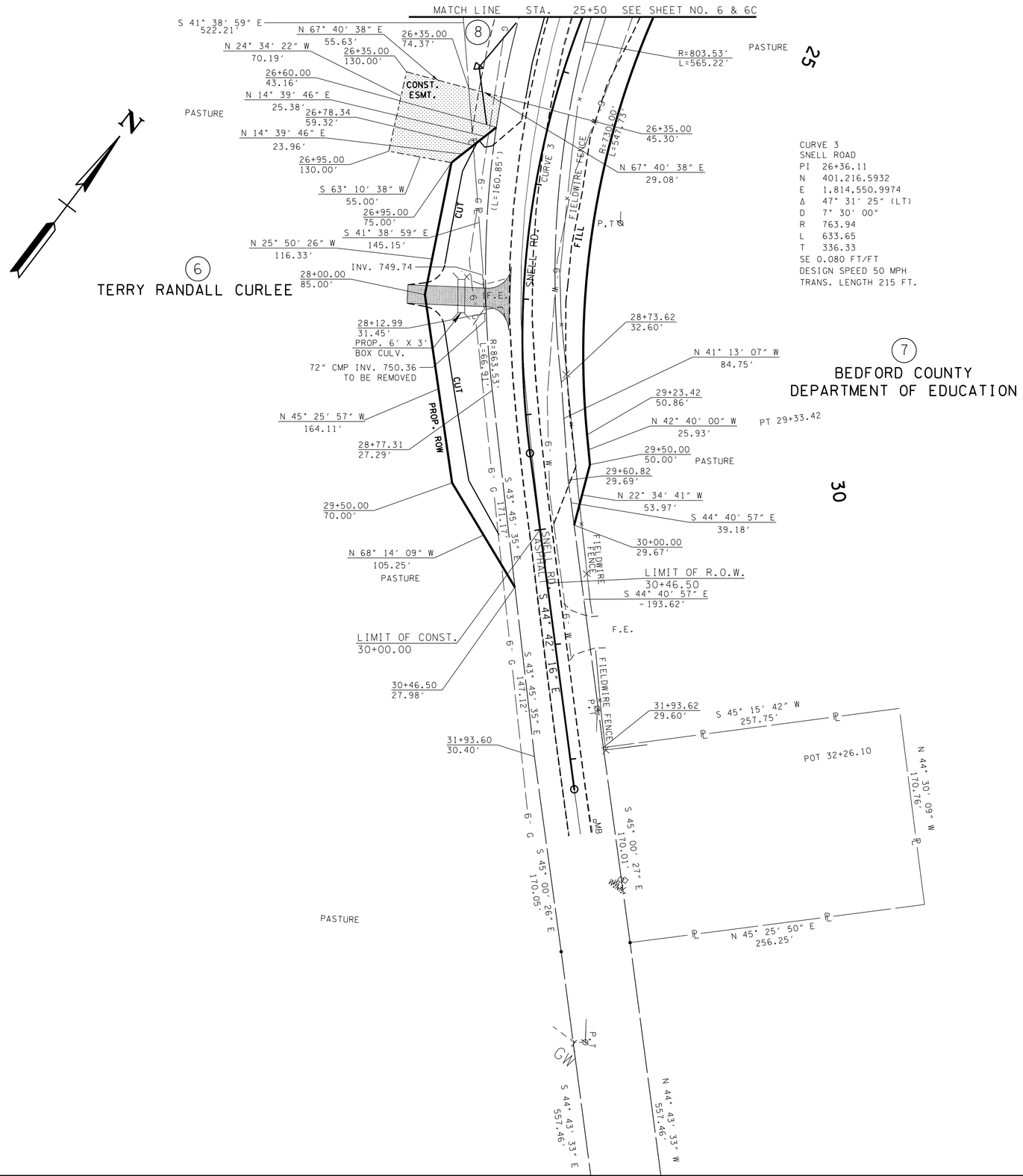
SCALE: 1"= 50'

L.M. 8.30

7-JUL-2015 10:17
\\AG03DCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\006C r062215.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	7
CONST.	2015	BR-STP-130(20)	7

REV. 03/03/15: ADJUSTED EXISTING AND PROPOSED RIGHT OF WAY CALLS FOR TRACT NOS. 6 & 7. ADJUSTED PROPERTY OWNERS NAME AND TRACT NO.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

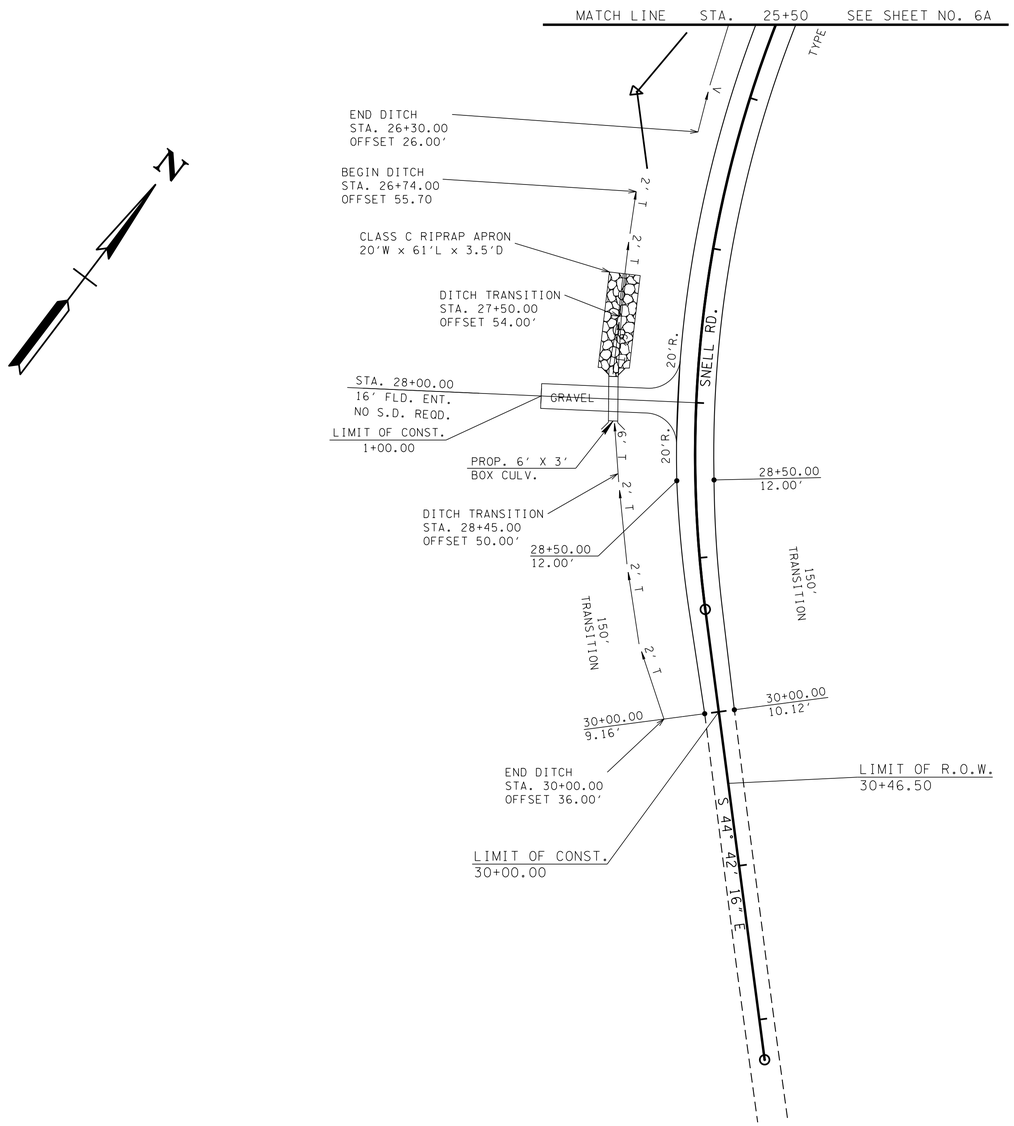
PRESENT LAYOUT (SNELL RD)

STA. 25+50 TO STA. 32+00

SCALE: 1"= 50'

7-JUL-2015 10:17
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\115673-00 -CONST\007 r030315.sht
ver Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\007 r030315.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	7A
CONST.	2015	BR-STP-130(20)	7A



NOTE: FOR SPECIAL DITCH DETAILS SEE SHEET NO. 2E.

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT
(SNELL RD)
STA. 25+50 TO STA. 32+00

SCALE: 1"= 50'

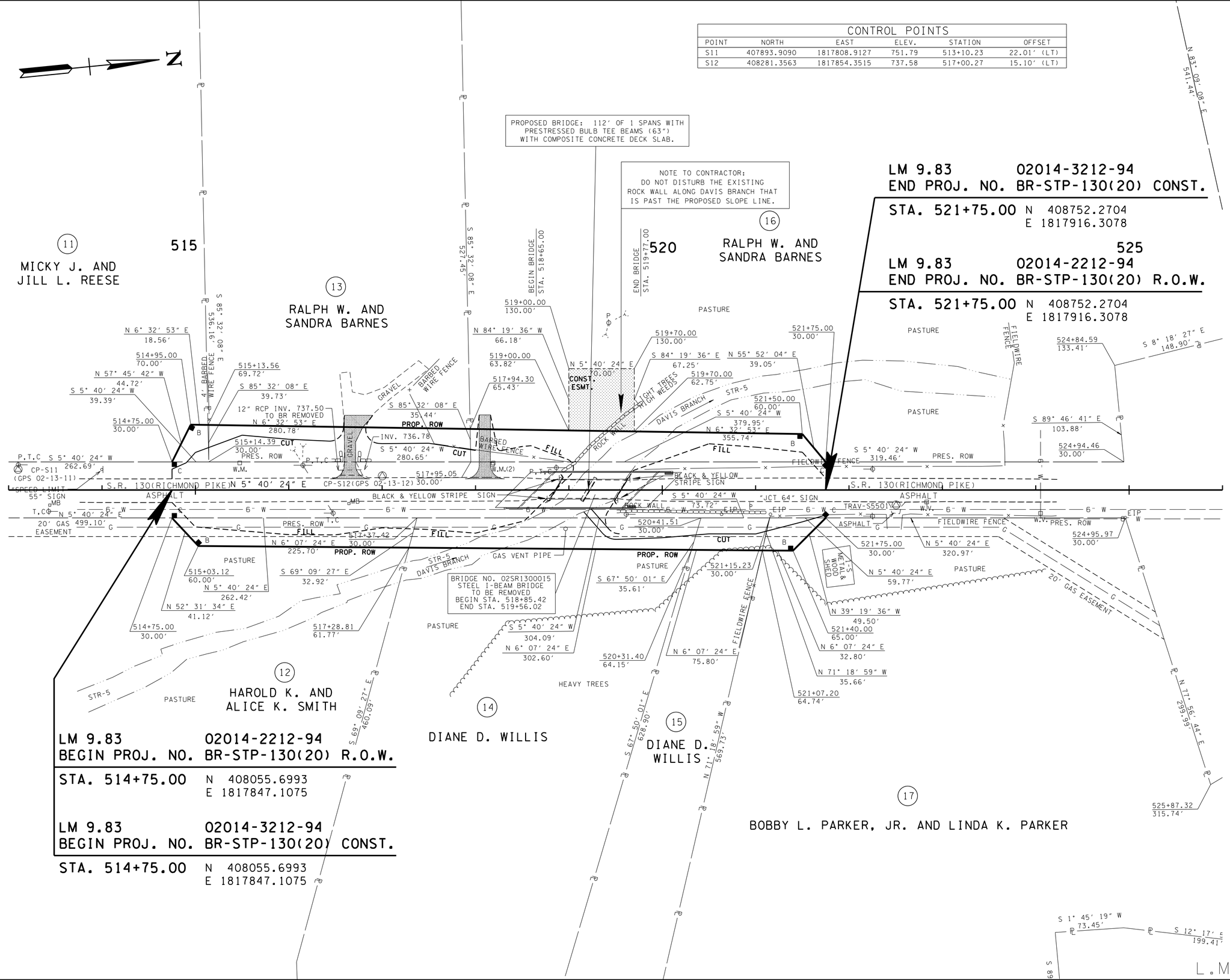
7-JUL-2015 10:17
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\115673-00 -CONST\007A.sht
ver Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\007A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	8
CONST.	2015	BR-STP-130(20)	8

REV. 03/03/15: ADDED NOTE TO CONTRACTOR FOR EXISTING ROCK WALL. ADDED FIELD ENT. AT STA. 518+10, FOR TRACT NO. 16. ADJUSTED PROPOSED BRIDGE.

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S11	407893.9090	1817808.9127	751.79	513+10.23	22.01' (LT)
S12	408281.3563	1817854.3515	737.58	517+00.27	15.10' (LT)



LM 9.83 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 521+75.00 N 408752.2704
E 1817916.3078

LM 9.83 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 521+75.00 N 408752.2704
E 1817916.3078

LM 9.83 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 514+75.00 N 408055.6993
E 1817847.1075

LM 9.83 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 514+75.00 N 408055.6993
E 1817847.1075

UNOFFICIAL SET

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KATHERINE J. LLOYD
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NO. 106423
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

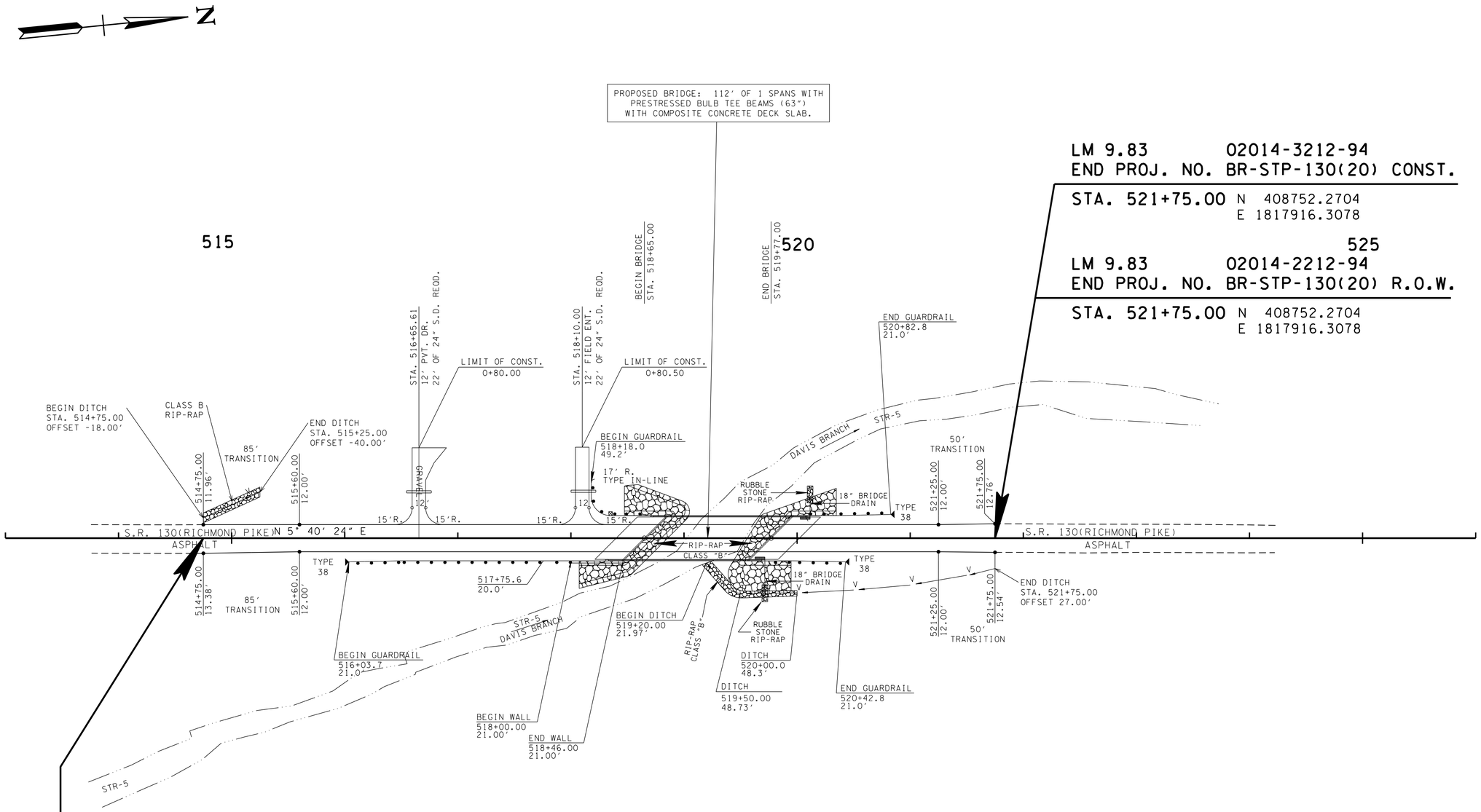
STA. 513+00 TO STA. 526+00

SCALE: 1"= 50'

7-JUL-2015 10:17
\\AG035DCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\008 r030315.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	8A
CONST.	2015	BR-STP-130(20)	8A

REV. 03/03/15: ADJUSTED PROPOSED BRIDGE, GUARDRAIL AND RIP-RAP. ADDED FIELD ENT. AT STA. 518+10. WITH 22' OF 24" SIDEDRAIN REQ'D.



LM 9.83 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 521+75.00 N 408752.2704
E 1817916.3078

LM 9.83 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 521+75.00 N 408752.2704
E 1817916.3078

LM 9.83 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 514+75.00 N 408055.6993
E 1817847.1075

LM 9.83 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 514+75.00 N 408055.6993
E 1817847.1075

NOTE: FOR SPECIAL DITCH DETAILS SEE SHEET NO. 2E.

L.M. 9.83

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

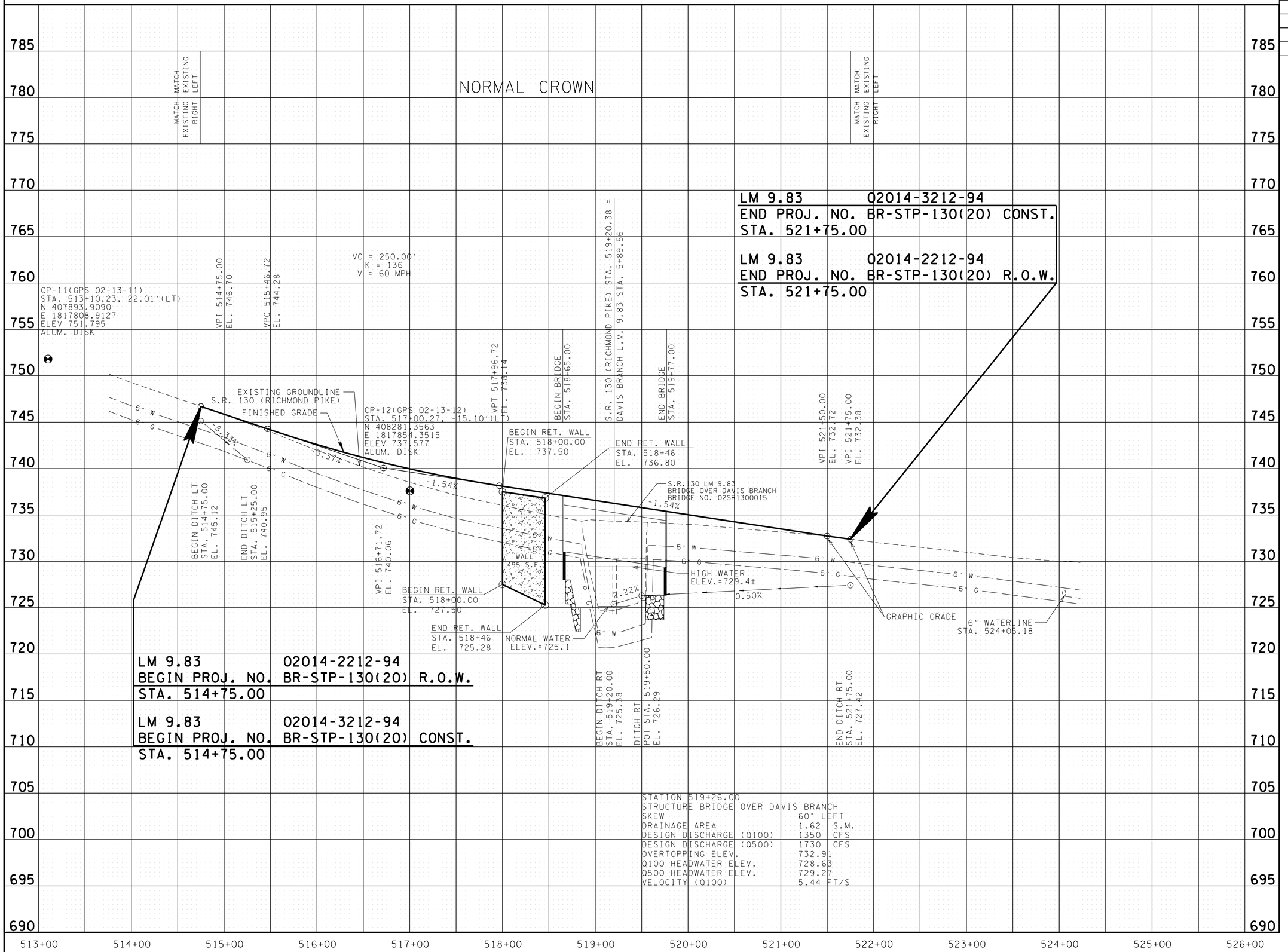
PROPOSED LAYOUT

STA. 513+00 TO STA. 526+00

SCALE: 1"= 50'

Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\008A r030315.sht
7-JUL-2015 10:17
\\AG035DCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM9.83 4.77,5.45,9.83 and over

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	8B
CONST.	2015	BR-STP-130(20)	8B



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L.M. 9.83

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

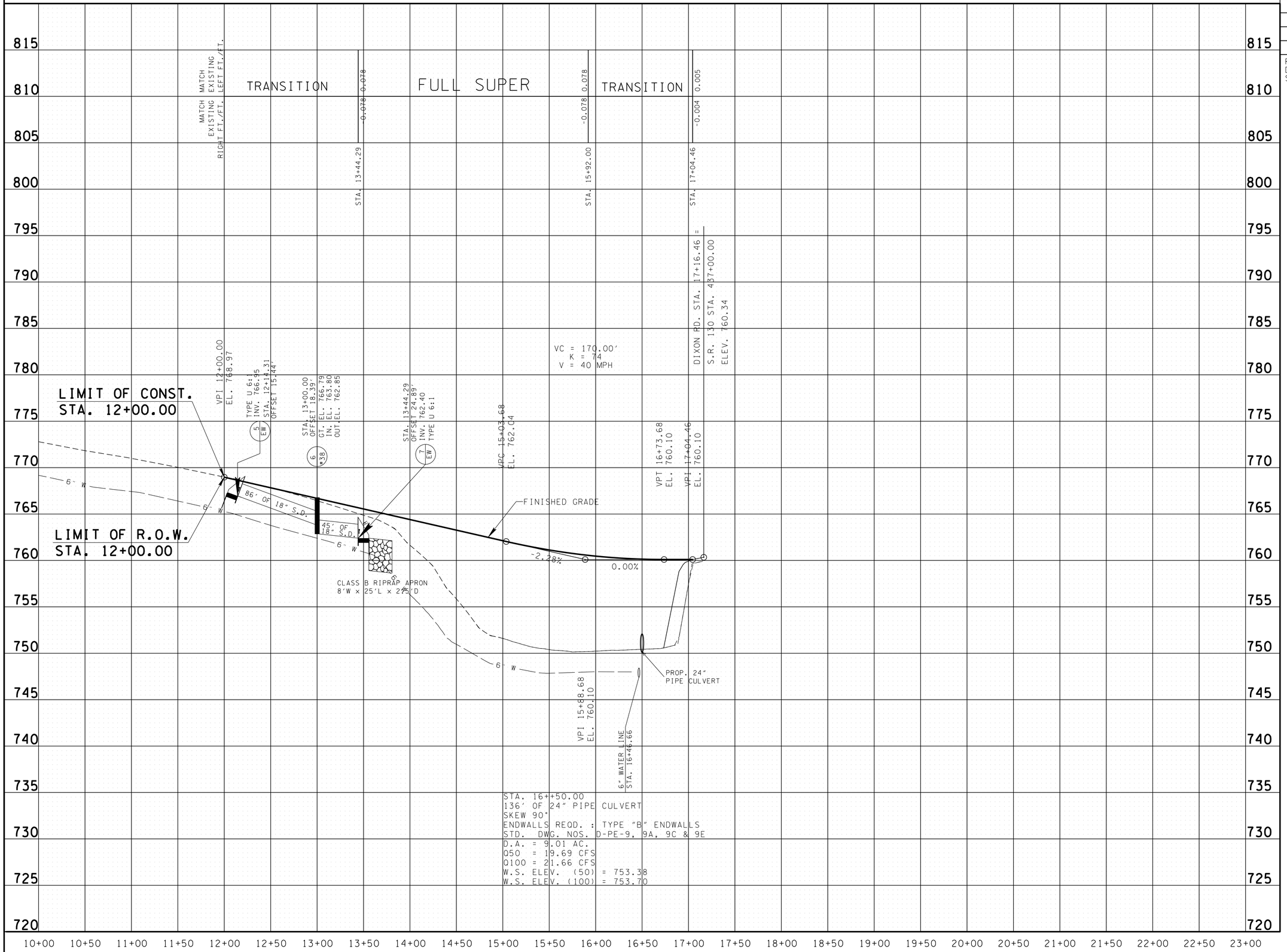
STA. 513+00 TO STA. 526+00

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

7-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\008B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	9
CONST.	2015	BR-STP-130(20)	9

REV. 04/06/15: ADDED PROPOSED DRAINAGE FROM STA. 12+14.31 TO STA. 13+69.29.



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PROFILE OF DIXON ROAD

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

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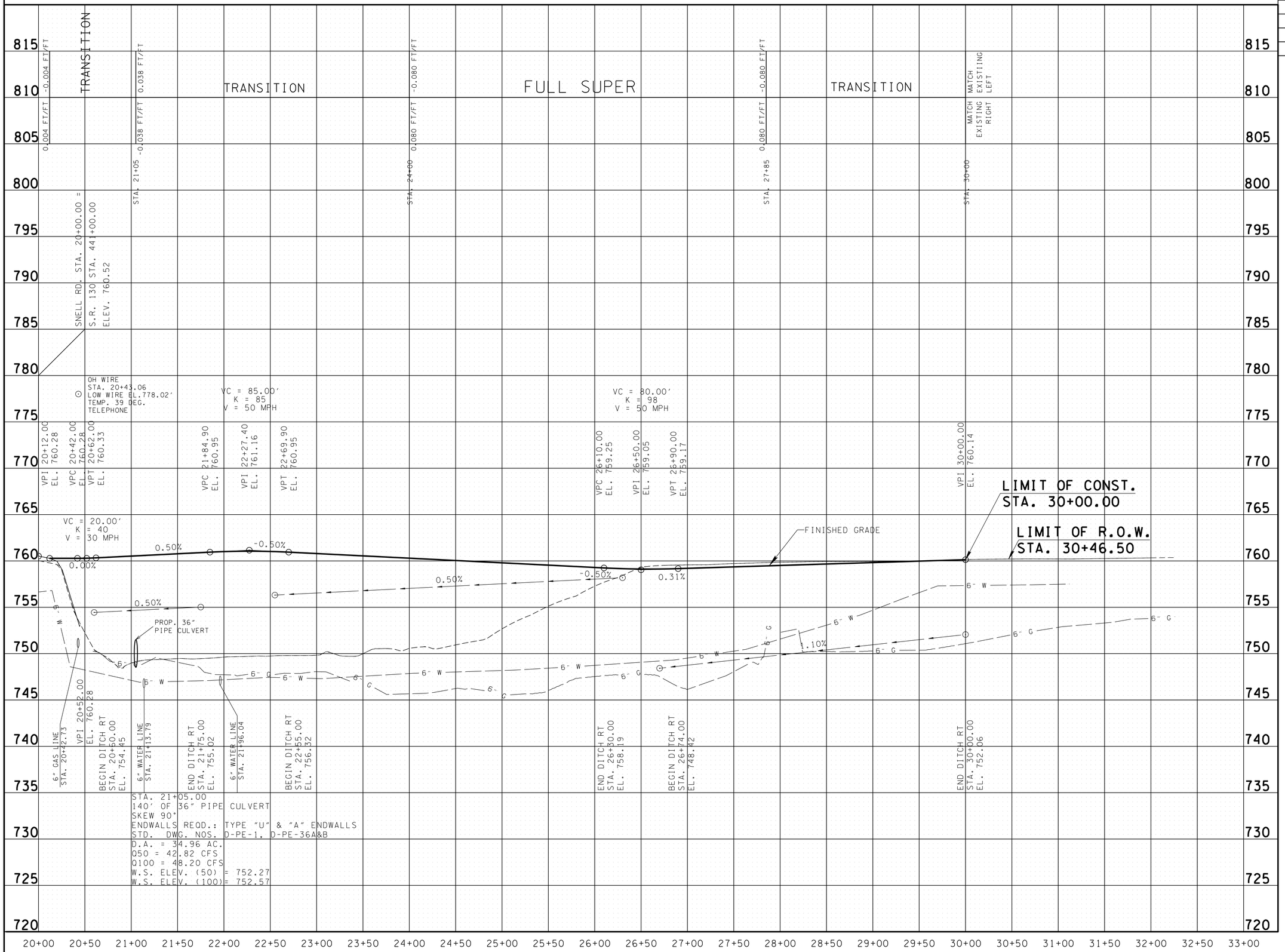
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\009 r040615.sht
Sugar Creek LM 4.77,5.45,9.83 and over LM 9.325

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	9A
CONST.	2015	BR-STP-130(20)	9A



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COMMERCE
NO. 106425
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

PROFILE OF SNELL ROAD

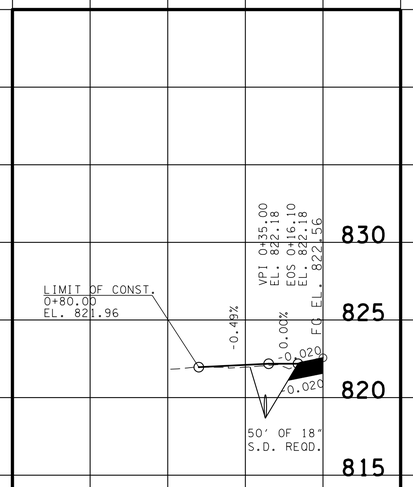
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\009A.sht
7-JUL-2015 10:17
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 4.77,5.45,9.83 and over Sugar Cr

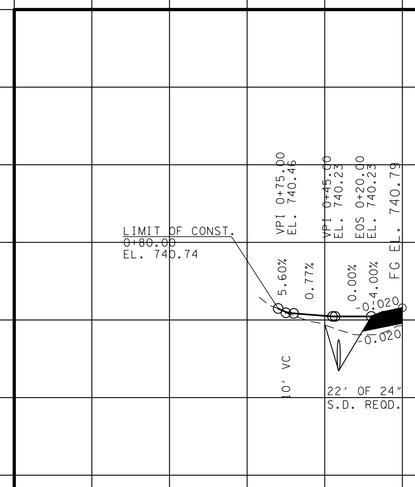
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	10
CONST.	2015	BR-STP-130(20)	10

REV. 03/03/15: ADDED FIELD ENT. AT STA. 518+10 FOR TRACT NO. 16.

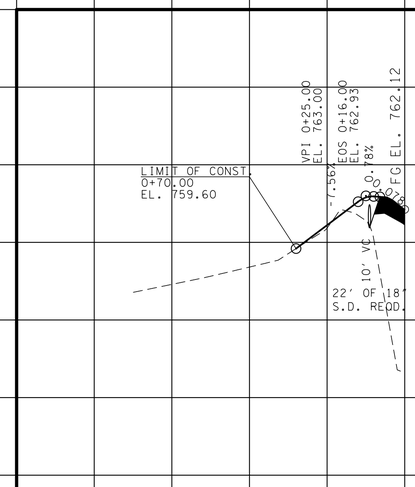
REV. 06/22/15: ADJUSTED FIELD ENT. AT STA. 441+30 FOR TRACT NO. 9.



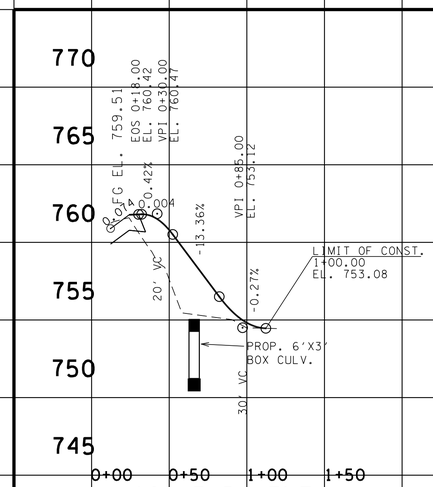
16' FLD. ENT.
SR-130 LT. 284+87.04
TRACT NO. 3



12' PVT. DR.
SR-130 LT. 516+65.61
TRACT NO. 13

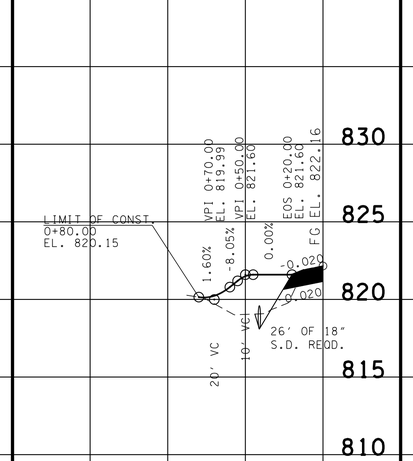


10' PVT. DR.
DIXON RD. LT. 15+00.00
TRACT NO. 18

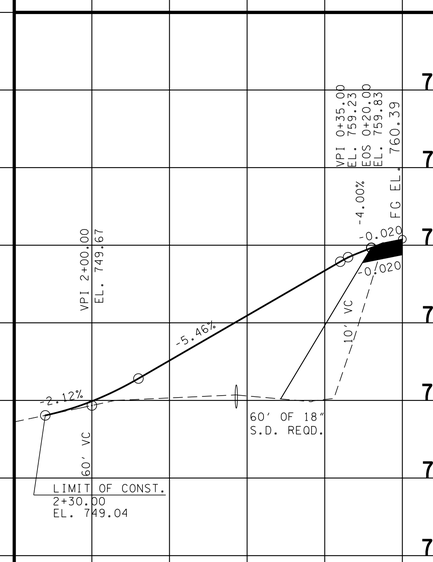


16' FLD. ENT.
SNELL RD. RT. 28+00.00
TRACT NO. 6

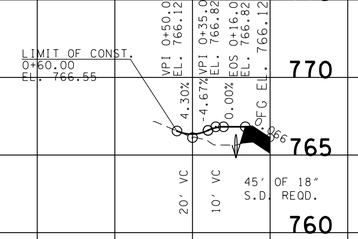
STATION:	0+53.50	
STRUCTURE:	29' of 6' X 3' BOX CULV.	
SKEW	88° RT.	
DRAINAGE AREA	131.5 AC.	
DESIGN DISCHARGE (Q50)	137.1 CFS	
DESIGN DISCHARGE (Q100)	145.2 CFS	
OVERTOPPING ELEV.	753.08	
ALLOWABLE HEADWATER ELEV.		
Q50 HEADWATER ELEV.	753.97	
Q100 HEADWATER ELEV.	754.09	
VELOCITY (Q50)	10.9 FT/S	
VELOCITY (Q100)	11.0 FT/S	
INLET ELEVATION	750.00	
OUTLET ELEVATION	749.70	
STANDARD DRAWING NUMBERS	STD-17-11,	STD-17-51
CLASS "A" CONCRETE	42	C.Y.
STEEL BAR REINFORCING	7042	LB.
FOUNDATION FILL MATERIAL	12	C.Y.



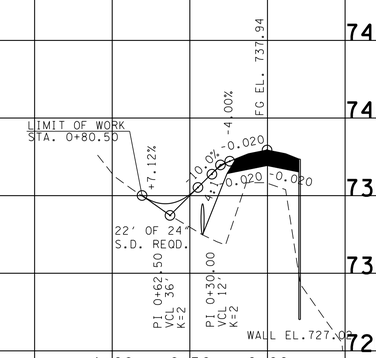
16' FLD. ENT.
SR-130 LT. 253+16.82
TRACT NO. 1



16' FLD. ENT.
SR-130 LT. 441+30.00
TRACT NO. 9



14' PVT. DR.
DIXON RD. LT. 13+25.00
TRACT NO. 18



12' FIELD ENT.
SR-130 LT. 518+10.00
TRACT NO. 16

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PROFILE OF PRIVATE DRIVES

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

7-JUL-2015 10:17
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\II5673-00 -CONSTYOIO r062215.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	11
CONST.	2015	BR-STP-130(20)	11

DRAINAGE/ HYDRAULIC DATA FOR EXISTING BRIDGE

STATION 251+78.26 LM 4.77 STREAM NAME SIMMONS BRANCH

STREAM BED LINING: ROCK

DIRECTION OF FLOW RIGHT

DRAINAGE AREA 1.029 SQ MI FLAT, ROLLING, HILLY, MTNS.

PRESENT STRUCTURE: SPAN 24.25' HEIGHT 8.63' STRUCTURE STEEL I-BEAM SUPERSTRUCTURE METAL RAILING(SUBSTANDARD)

BEGIN STATION-OFFSET 251+62.41 END STATION-OFFSET 251+86.66

LOW BEAM ELEV. 819.15 LOCATION. NORTHWEST FACE

INLET INVERT ELEV. N/A OUTLET INVERT. N/A

NORMAL WATER ELEV. 814.6 EXTREME HIGHWATER ELEV. 819± DATE. N/A

HOW OBTAINED. FIELD DATA

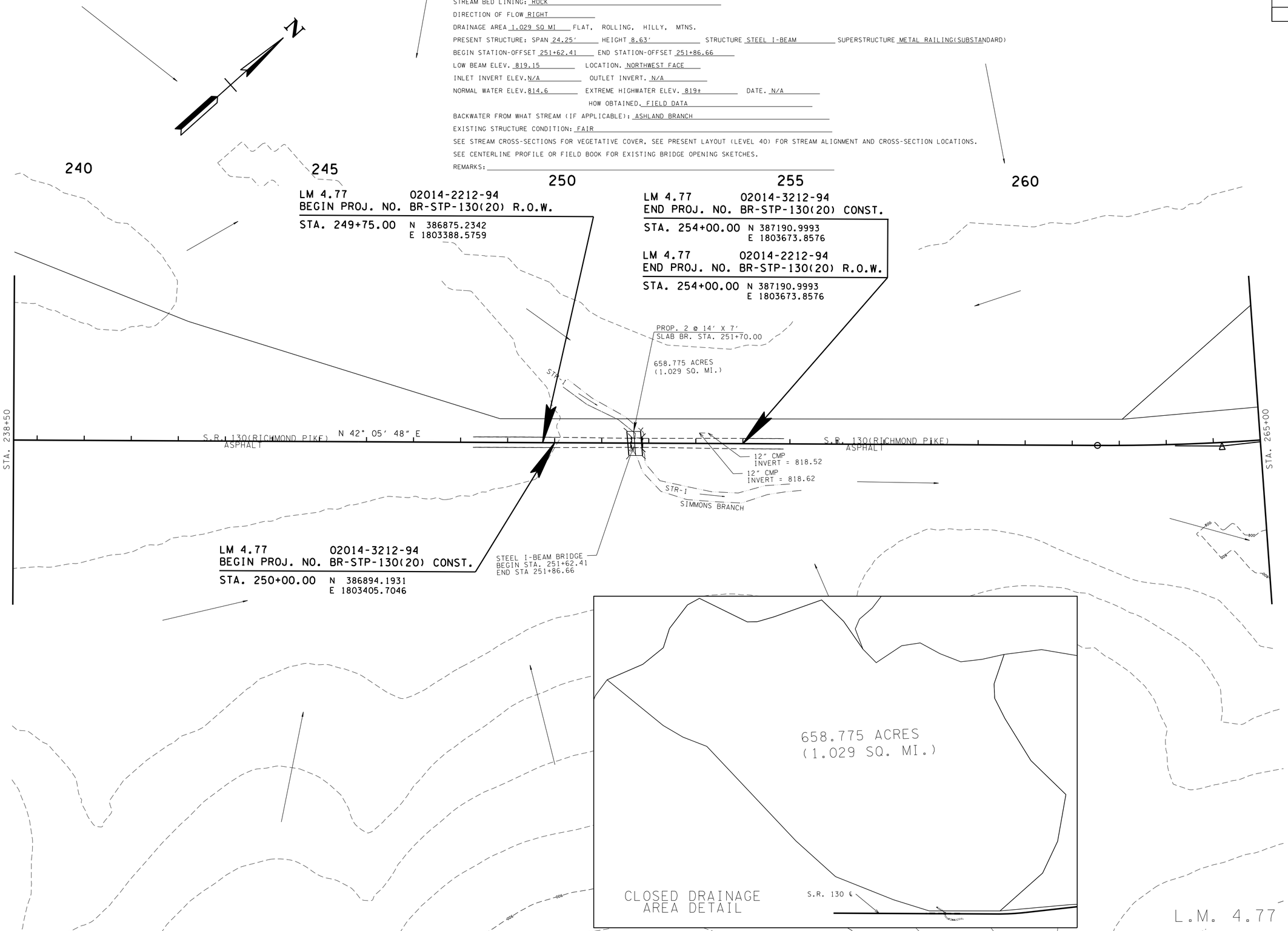
BACKWATER FROM WHAT STREAM (IF APPLICABLE): ASHLAND BRANCH

EXISTING STRUCTURE CONDITION: FAIR

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

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

REMARKS:



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

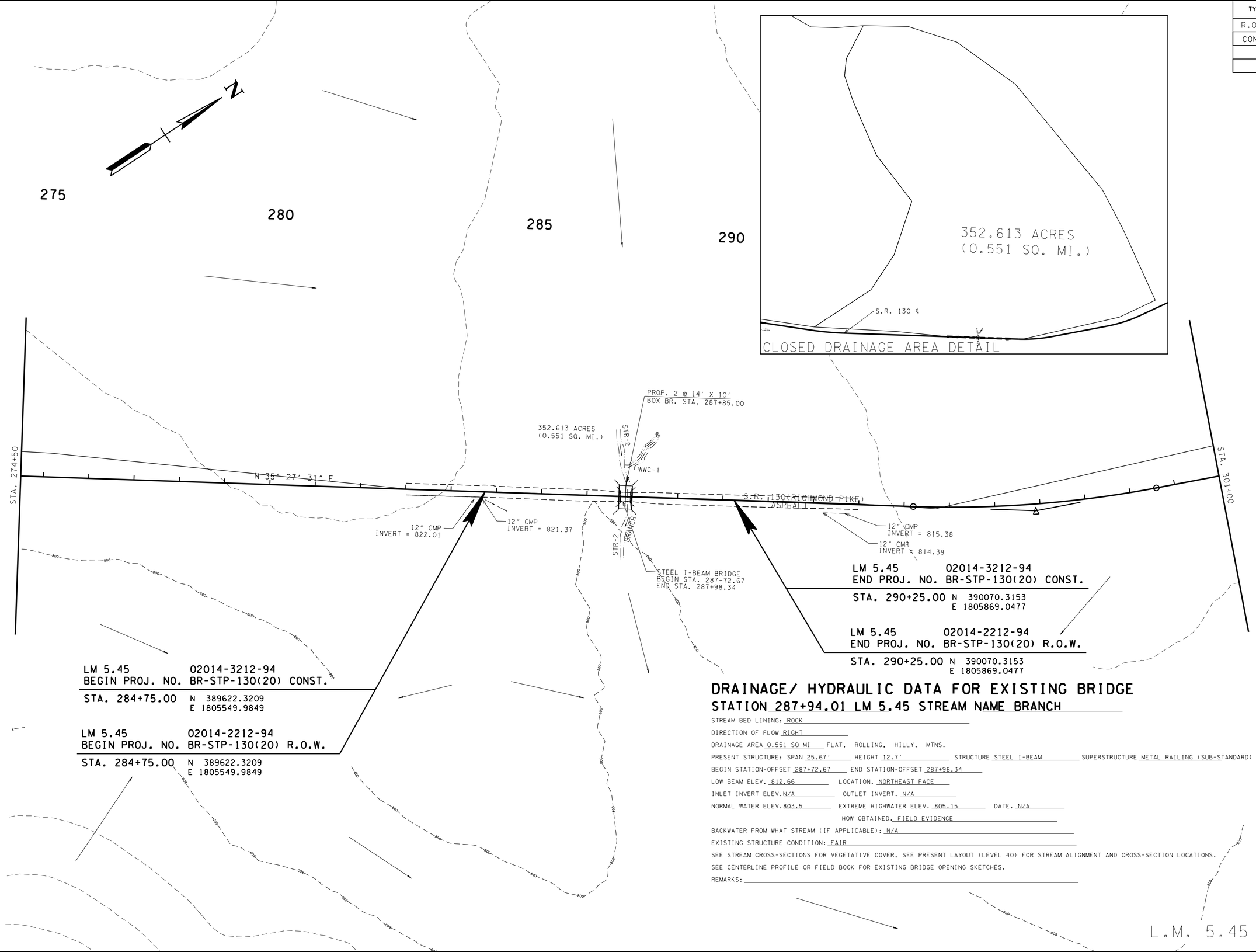
DRAINAGE MAP

STA. 238+50 TO STA. 265+00

SCALE: 1"=100'

17-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 8.30\SR130\Construction Turn In\11673-00 -CONST\01.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	11A
CONST.	2015	BR-STP-130(20)	11A



DRAINAGE/ HYDRAULIC DATA FOR EXISTING BRIDGE

STATION 287+94.01 LM 5.45 STREAM NAME BRANCH

STREAM BED LINING: ROCK

DIRECTION OF FLOW RIGHT

DRAINAGE AREA 0.551 SQ MI FLAT, ROLLING, HILLY, MTNS.

PRESENT STRUCTURE: SPAN 25.67' HEIGHT 12.7' STRUCTURE STEEL I-BEAM SUPERSTRUCTURE METAL RAILING (SUB-STANDARD)

BEGIN STATION-OFFSET 287+72.67 END STATION-OFFSET 287+98.34

LOW BEAM ELEV. 812.66 LOCATION. NORTHEAST FACE

INLET INVERT ELEV. N/A OUTLET INVERT. N/A

NORMAL WATER ELEV. 803.5 EXTREME HIGHWATER ELEV. 805.15 DATE. N/A

HOW OBTAINED. FIELD EVIDENCE

BACKWATER FROM WHAT STREAM (IF APPLICABLE): N/A

EXISTING STRUCTURE CONDITION: FAIR

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

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

REMARKS:

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REGISTERED ENGINEER
AGRICULTURE
NUMBER
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

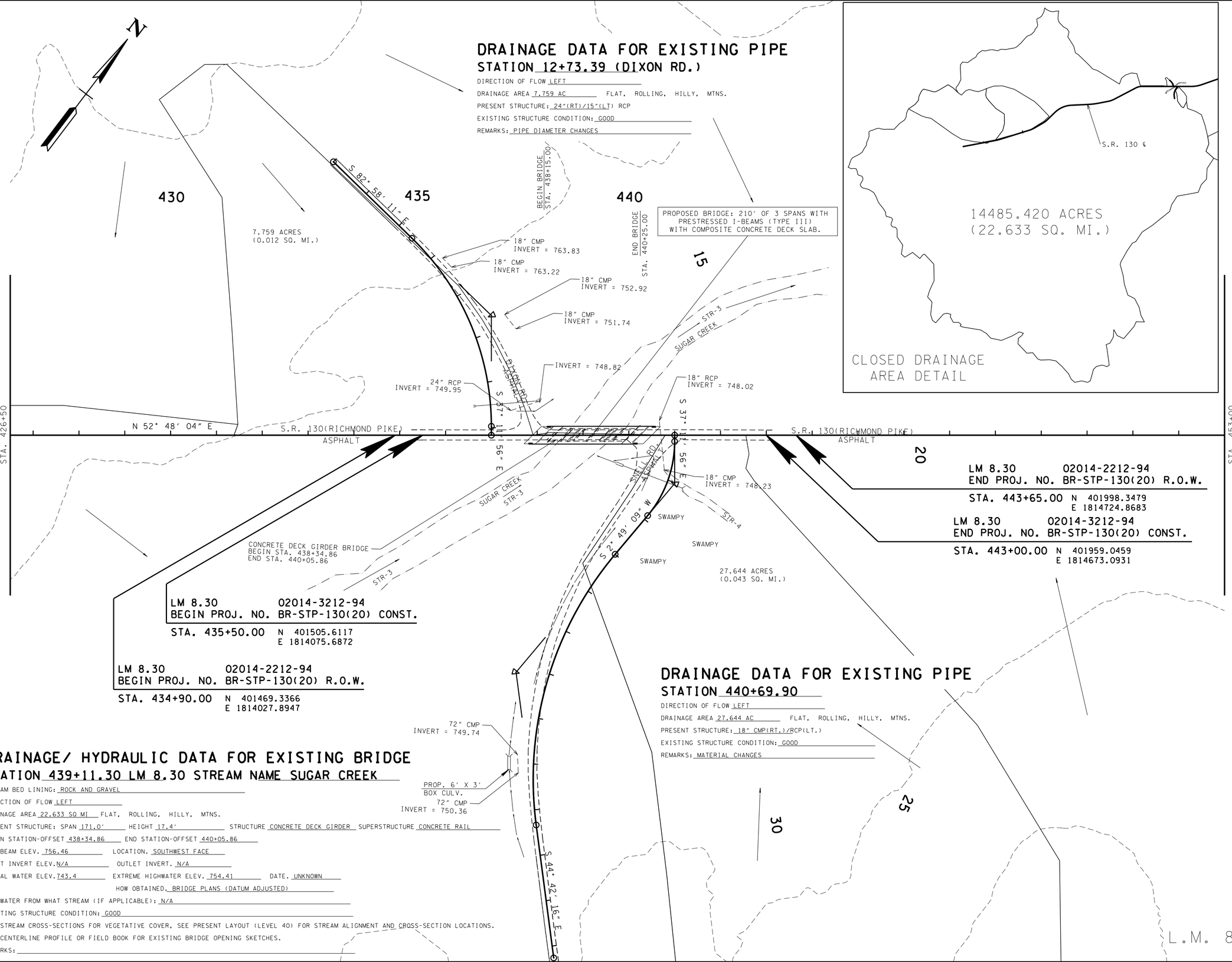
DRAINAGE MAP

STA. 274+50 TO STA. 301+00

SCALE: 1"=100'

7-JUL-2015 10:17
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/2ps 4.77,5.45,9.83 and over Sugar Creek LM 8.30\Construction Turn In\15673-00 -CONST\01A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	11B
CONST.	2015	BR-STP-130(20)	11B



DRAINAGE DATA FOR EXISTING PIPE
STATION 12+73.39 (DIXON RD.)

DIRECTION OF FLOW LEFT

DRAINAGE AREA 7.759 AC FLAT, ROLLING, HILLY, MTNS.

PRESENT STRUCTURE: 24"(RT)/15"(LT) RCP

EXISTING STRUCTURE CONDITION: GOOD

REMARKS: PIPE DIAMETER CHANGES

LM 8.30 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 443+65.00 N 401998.3479
E 1814724.8683

LM 8.30 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 443+00.00 N 401959.0459
E 1814673.0931

LM 8.30 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 435+50.00 N 401505.6117
E 1814075.6872

LM 8.30 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 434+90.00 N 401469.3366
E 1814027.8947

DRAINAGE DATA FOR EXISTING PIPE
STATION 440+69.90

DIRECTION OF FLOW LEFT

DRAINAGE AREA 27.644 AC FLAT, ROLLING, HILLY, MTNS.

PRESENT STRUCTURE: 18" CMP(RT.)/RCP(LT.)

EXISTING STRUCTURE CONDITION: GOOD

REMARKS: MATERIAL CHANGES

DRAINAGE/ HYDRAULIC DATA FOR EXISTING BRIDGE
STATION 439+11.30 LM 8.30 STREAM NAME SUGAR CREEK

STREAM BED LINING: ROCK AND GRAVEL

DIRECTION OF FLOW LEFT

DRAINAGE AREA 22.633 SQ MI FLAT, ROLLING, HILLY, MTNS.

PRESENT STRUCTURE: SPAN 171.0' HEIGHT 17.4' STRUCTURE CONCRETE DECK GIRDER SUPERSTRUCTURE CONCRETE RAIL

BEGIN STATION-OFFSET 438+34.86 END STATION-OFFSET 440+05.86

LOW BEAM ELEV. 756.46 LOCATION. SOUTHWEST FACE

INLET INVERT ELEV. N/A OUTLET INVERT. N/A

NORMAL WATER ELEV. 743.4 EXTREME HIGHWATER ELEV. 754.41 DATE. UNKNOWN

HOW OBTAINED. BRIDGE PLANS (DATUM ADJUSTED)

BACKWATER FROM WHAT STREAM (IF APPLICABLE): N/A

EXISTING STRUCTURE CONDITION: GOOD

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

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

REMARKS:

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XVI AGRICULTURE & COMMERCE
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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 426+50 TO STA. 453+00

SCALE: 1"=100'

7-JUL-2015 10:17
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130_Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\01B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	11C
CONST.	2015	BR-STP-130(20)	11C

DRAINAGE/ HYDRAULIC DATA FOR EXISTING BRIDGE

STATION 519+22.45 LM 9.83 STREAM NAME DAVIS BRANCH

STREAM BED LINING: ROCK

DIRECTION OF FLOW LEFT

DRAINAGE AREA 1.579 SQ MI FLAT, ROLLING, HILLY, MTNS.

PRESENT STRUCTURE: SPAN 70.6 HEIGHT 9.6 STRUCTURE STEEL I-BEAM SUPERSTRUCTURE METAIL RAIL

BEGIN STATION-OFFSET 518+85.42 END STATION-OFFSET 519+56.02

LOW BEAM ELEV. 730.25 LOCATION. EAST BEAM FACE

INLET INVERT ELEV. N/A OUTLET INVERT. N/A

NORMAL WATER ELEV. 725.1 EXTREME HIGHWATER ELEV. 729.4± DATE. N/A

HOW OBTAINED. FIELD EVIDENCE

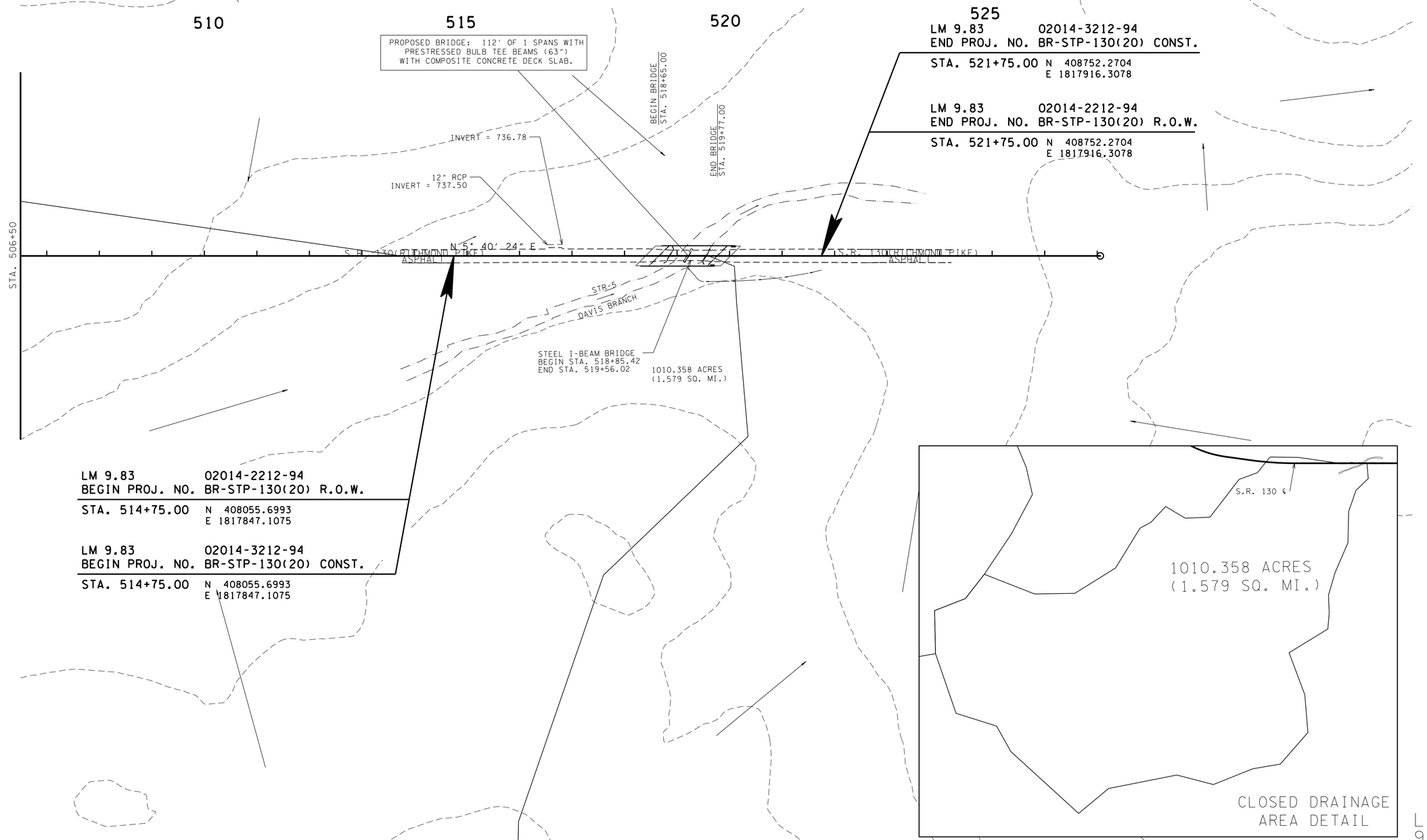
BACKWATER FROM WHAT STREAM (IF APPLICABLE): N/A

EXISTING STRUCTURE CONDITION: FAIR

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

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

REMARKS:



L.M. 9.83

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COMMERCE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

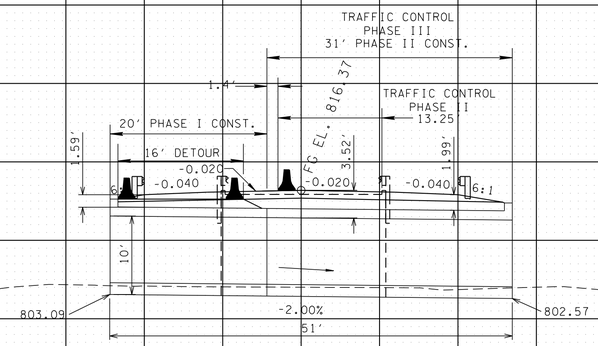
DRAINAGE MAP

STA. 506+50 TO STA. 527+00

SCALE: 1"=100'

7-JUL-2015 10:17
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONSTY01C.sht
over Sugar Creek LM 4.77,5.45,9.83 and over

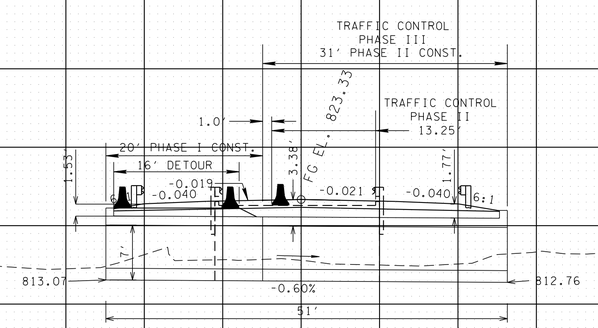
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	12
CONST.	2015	BR-STP-130(20)	12



STATION 287+85.00
STRUCTURE 51' OF 2 @ 14' X 10' SLAB BR.

SKEW	90°
DRAINAGE AREA	320 AC.
DESIGN DISCHARGE (Q50)	505.7 CFS
DESIGN DISCHARGE (Q100)	564.3 CFS
OVERTOPPING ELEV.	815.69
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	807.61
Q100 HEADWATER ELEV.	807.80
VELOCITY (Q50)	3.40 FT/S
VELOCITY (Q100)	3.69 FT/S
INLET ELEVATION	803.09
OUTLET ELEVATION	802.57
STANDARD DRAWING NUMBERS	STD-17-11,STD-17-140
CLASS "A" CONCRETE	249 C.Y.
STEEL BAR REINFORCING	42095 LB.

SR130
287+85.00



STATION 251+70.00
STRUCTURE 51' OF 2 @ 14' X 7' SLAB BR.

SKEW	85° RT
DRAINAGE AREA	2.37 S.M.
DESIGN DISCHARGE (Q100)	846 CFS
DESIGN DISCHARGE (Q500)	1090 CFS
OVERTOPPING ELEV.	821.33
ALLOWABLE HEADWATER ELEV.	
Q100 HEADWATER ELEV.	820.03
Q500 HEADWATER ELEV.	820.85
VELOCITY (Q100)	6.87 FT/S
VELOCITY (Q500)	7.00 FT/S
STANDARD DRAWING NUMBERS	STD-17-11,STD-17-139
OUTLET ELEVATION	812.76
INLET ELEVATION	813.07
CLASS "A" CONCRETE	173 C.Y.
STEEL BAR REINFORCING	32846 LB.

SR130
251+70.00

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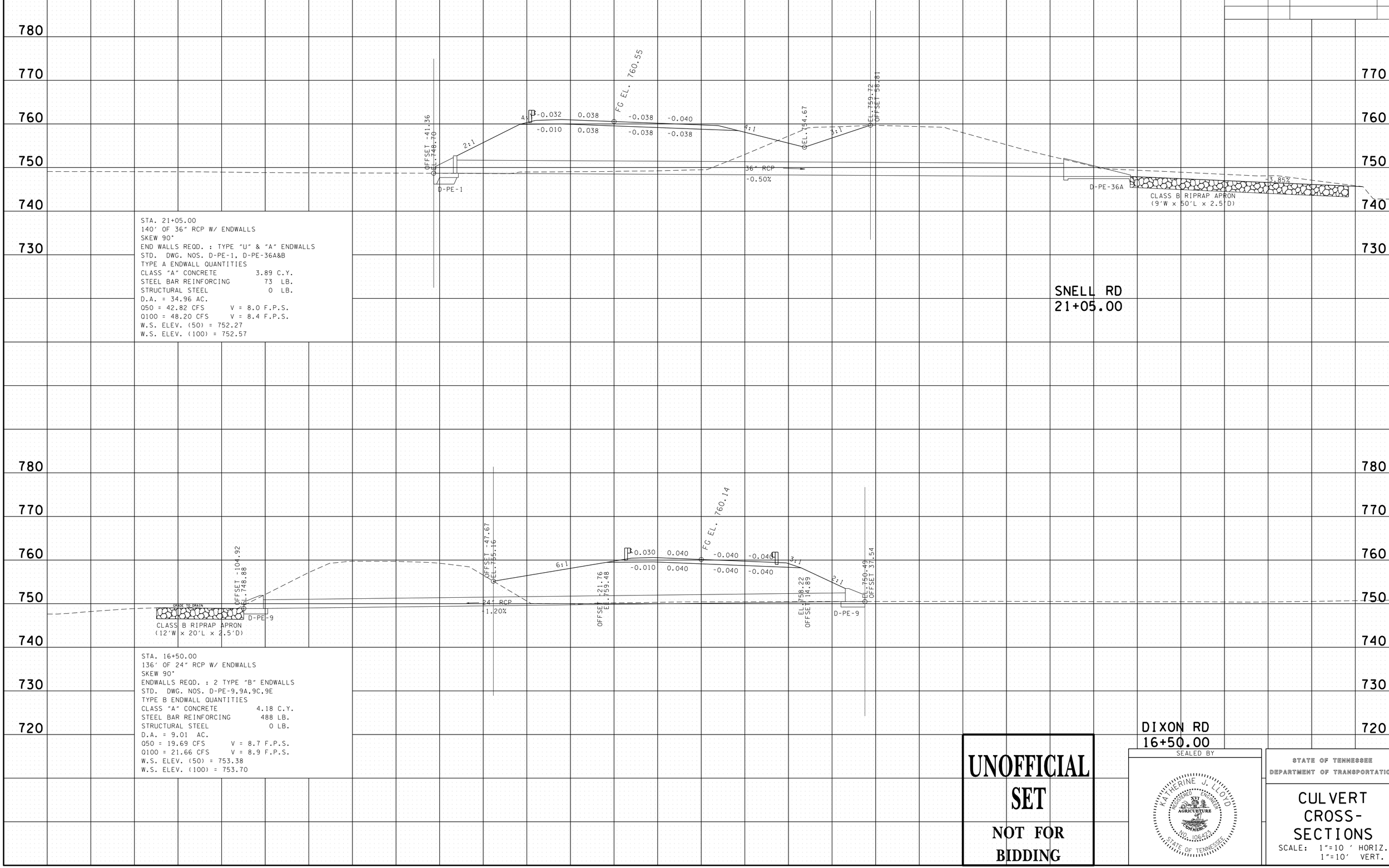
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

17-JUL-2015 10:17
\\AG03SDCWF000\0.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\012.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	12A
CONST.	2015	BR-STP-130(20)	12A



STA. 21+05.00
140' OF 36" RCP W/ ENDWALLS
SKEW 90°
END WALLS REQD. : TYPE "U" & "A" ENDWALLS
STD. DWG. NOS. D-PE-1, D-PE-36A&B
TYPE A ENDWALL QUANTITIES
CLASS "A" CONCRETE 3.89 C.Y.
STEEL BAR REINFORCING 73 LB.
STRUCTURAL STEEL 0 LB.
D.A. = 34.96 AC.
Q50 = 42.82 CFS V = 8.0 F.P.S.
Q100 = 48.20 CFS V = 8.4 F.P.S.
W.S. ELEV. (50) = 752.27
W.S. ELEV. (100) = 752.57

STA. 16+50.00
136' OF 24" RCP W/ ENDWALLS
SKEW 90°
ENDWALLS REQD. : 2 TYPE "B" ENDWALLS
STD. DWG. NOS. D-PE-9,9A,9C,9E
TYPE B ENDWALL QUANTITIES
CLASS "A" CONCRETE 4.18 C.Y.
STEEL BAR REINFORCING 488 LB.
STRUCTURAL STEEL 0 LB.
D.A. = 9.01 AC.
Q50 = 19.69 CFS V = 8.7 F.P.S.
Q100 = 21.66 CFS V = 8.9 F.P.S.
W.S. ELEV. (50) = 753.38
W.S. ELEV. (100) = 753.70

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106422
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

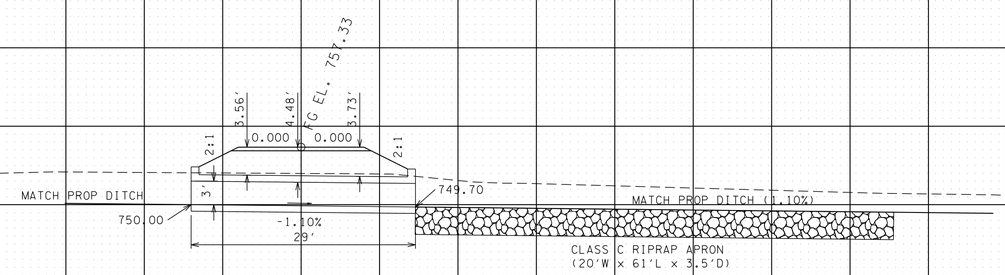
CULVERT CROSS-SECTIONS

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

17-JUL-2015 10:17
\\AGO3SDCWF0010\0.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM5/32S 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\012A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	12B
CONST.	2015	BR-STP-130(20)	12B

SNELL RD
PRIVATE DRIVE
0+53.50



STATION	0+53.50
STRUCTURE	29' OF 6' X 3' BOX CULV.
SKEW	88° RT.
DRAINAGE AREA	131.5 AC.
DESIGN DISCHARGE (Q50)	137.1 CFS
DESIGN DISCHARGE (Q100)	145.2 CFS
OVERTOPPING ELEV.	753.08
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	753.97
Q100 HEADWATER ELEV.	754.09
VELOCITY (Q50)	10.9 FT/S
VELOCITY (Q100)	11.0 FT/S
INLET ELEVATION	750.00
OUTLET ELEVATION	749.70
STANDARD DRAWING NUMBERS	STD-17-11, STD-17- 51
CLASS "A" CONCRETE	42 C.Y.
STEEL BAR REINFORCING	7042 LB.
FOUNDATION FILL MATERIAL	12 C.Y.

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STATE OF TENNESSEE
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CULVERT CROSS-SECTIONS

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\\AGO3SDCWF0010\0.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM5/32S 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\012B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	13
CONST.	2015	BR-STP-130(20)	13

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.

KNOWN EXCEPTIONAL TENNESSEE WATERS

(3) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 5 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(4) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION 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 60 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 30 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

(5) 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.

(6) 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.

(7) 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.

(8) 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.

(9) 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.

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

(11) 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

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

(13) 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

(14) 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).

(15) 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.

(16) 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.

(17) 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.

(18) 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.

(19) 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.

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

(21) 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.

ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPREHENSIVE INSPECTION OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

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

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

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

STREAM RELOCATION

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

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

17-JUL-2015 10:17
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\013.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	13A

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	L.M. 4.77 QUANTITY	L.M. 5.45 QUANTITY	L.M. 8.30 QUANTITY	L.M. 9.83 QUANTITY	TOTAL QUANTITY	STANDARD DRAWING
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	50 (1A)	120 (1A)	550 (1A)	180 (1A)	1600	
	209-02.04	10" TEMPORARY SLOPE DRAIN	L.F.			50		50	EC-STR-27
	209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.			115		115	EC-STR-27
	209-05	SEDIMENT REMOVAL	C.Y.	5	30	75	15	125	
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	950	900	3900	950	6700	EC-STR3C
	209-08.07	ROCK CHECK DAM PER	EACH	0	3	11	1	15	EC-STR-6
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	1	3	6	4	14	EC-STR-6A
	209-08.09	FILTER SOCK CHECK DAM	EACH	0	10	18	7	35	EC-STR-8
	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	2	2	4	2	10	EC-STR-2
(6)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	45	45	65	45	200	EC-STR-2, 11
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	25	50	170	25	270	EC-STR-25
	621-03.08	54" TEMPORARY DRAINAGE PIPE	L.F.	0	0	40	0	40	
	709-01.02	RUBBLE STONE RIP-RAP	TON	0.0	0.0	10.4	5.2	16	
(9)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	90	90	90	90	360	EC-STR-11, 25
(10)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	0	0	60	0	60	EC-STR-11, 27
(11)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	0	0	0	956	956	
(12)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	0	0	3138	0	3138	
(15)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	137	120	348	120	725	EC-STR-2, 11, 25
(16)	740-11.05	TEMPORARY SEDIMENT TUBE 24IN (EPSC)	L.F.	120	100	2300	330	2850	EC-STR-37
(18)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	9	25	61	28	123	
(19)	801-02	SEEDING (WITHOUT MULCH)	UNIT	0	2	11	9	22	
	801-03	WATER (SEEDING & SODDING)	M.G.	9	24	64	27	124	
	803-01	SODDING (NEW SOD)	S.Y.	828	2211	5765	2496	11300	
	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	0	378	2007	918	3303	EC-STR-36
	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	0	25	0	50	75	EC-STR-36

FOOTNOTES

(1) INCLUDES 650 CY FOR TEMPORARY BERMS, 900 CY FOR TEMPORARY CONSTRUCTION EXITS, 40 CY FOR CULVERT PROTECTION (TYPE 1) AND 10 CY FOR TEMPORARY SLOPE DRAINS.
(1A) QUANTITY FOR TEMPORARY CONSTRUCTION EXITS ONLY.
(6) TO BE USED FOR CULVERT PROTECTION (TYPE 1) AND SEDIMENT FILTER BAGS.
(9) TO BE USED FOR TEMPORARY CONSTRUCTIONS EXITS.
(10) INCLUDES 47 TONS FOR CULVERT PROTECTION (TYPE 1) AND 13 TONS FOR TENPORARY SLOPE DRAINS.
(11) INCLUDES 956 TONS FOR BRIDGE ENDS.
(12) INCLUDES 3138 TONS FOR BRIDGE ENDS.
(15) INCLUDES 72 SY FOR SPECIAL DITCHES AND 567 SY FOR TEMP. CONST. EXITS AND 86 SY FOR CULVERT PROTECTION (TYPE 1).
(16) INCLUDES 200 LF FOR CULVERT PROTECTION (TYPE 2) AND 2650 LF FOR LINEAR EPSC.
(18) TO BE USED AS DIRECTED BY THE ENGINEER
(19) TO BE USED WITH TURF REINFORCEMENT MATS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	EC-STR-27
	TEMPORARY BERM	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	TURF REINFORCEMENT MAT	EC-STR-36
A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
SFB * BJS * BJS * SFB	SEDIMENT FILTER BAG	EC-STR-2
TCE	TEMPORARY CONSTRUCTION EXIT	▲ EC-STR-25
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A

▲ TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEER

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DEPARTMENT OF TRANSPORTATION

EPSC QUANTITIES AND LEGEND

17-JUL-2015 10:18
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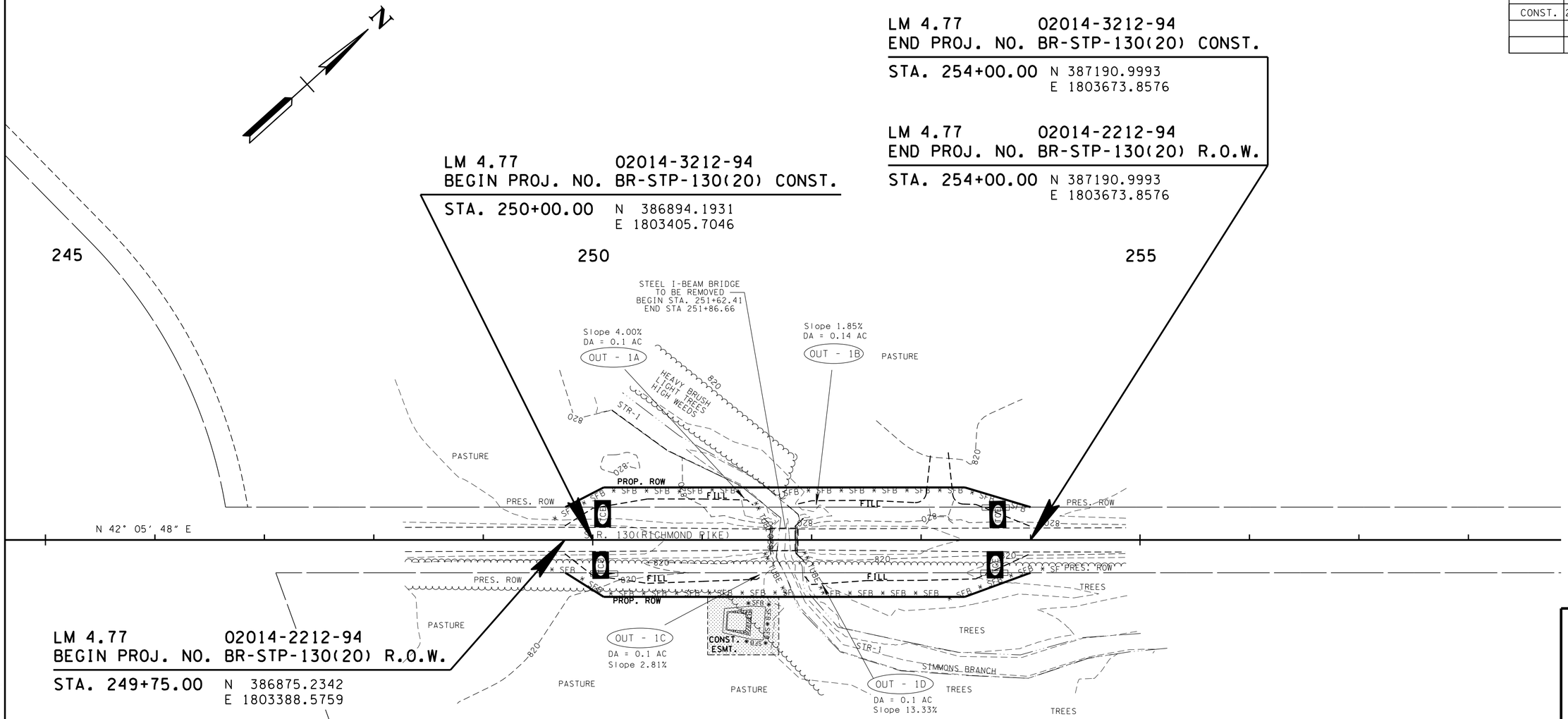
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	14
CONST.	2015	BR-STP-130(20)	14

LM 4.77 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.
STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.
STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.
STA. 250+00.00 N 386894.1931
E 1803405.7046

LM 4.77 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.
STA. 249+75.00 N 386875.2342
E 1803388.5759



EXISTING CONTOURS SHOWN

CLEARING & GRUBBING STAGE

L.M. 4.77

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

17-JUL-2015 10:19
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/8s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\014.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	BR-STP-130(20)	14A
CONST.	2015	BR-STP-130(20)	14A

LM 4.77 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

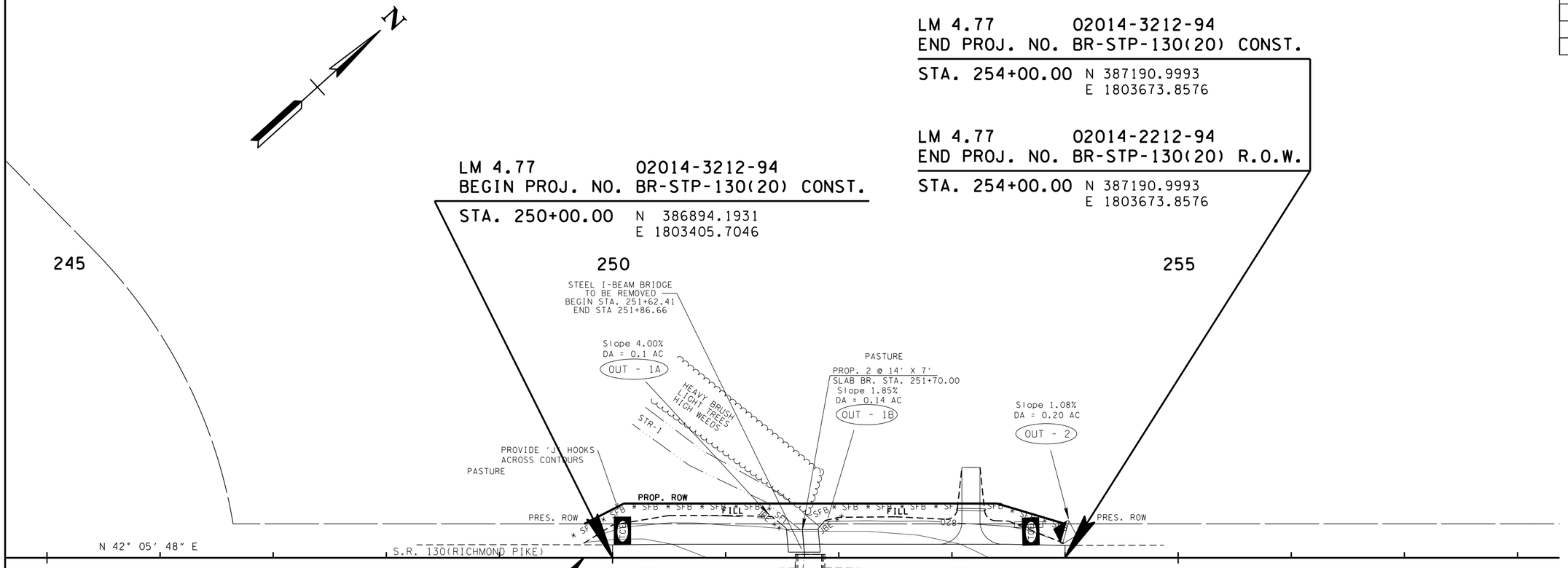
STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 250+00.00 N 386894.1931
E 1803405.7046

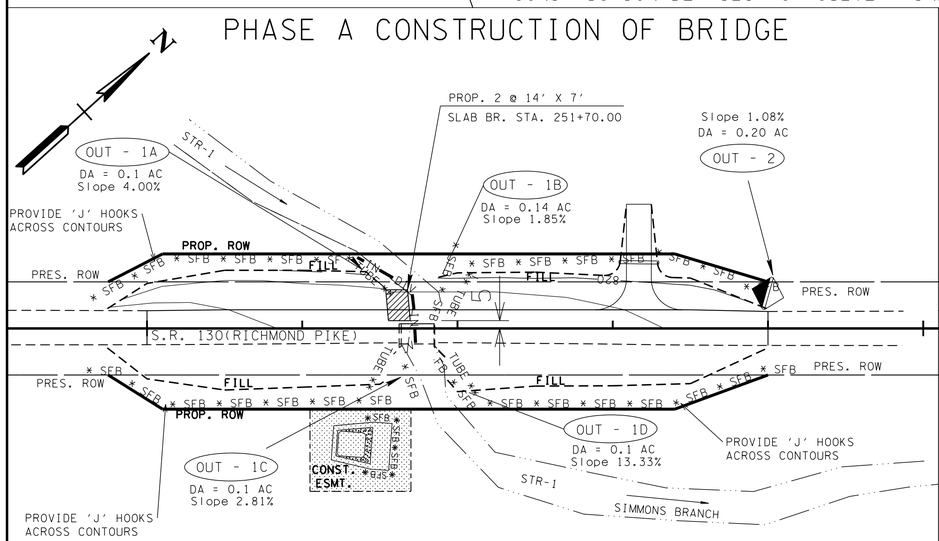


LM 4.77 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

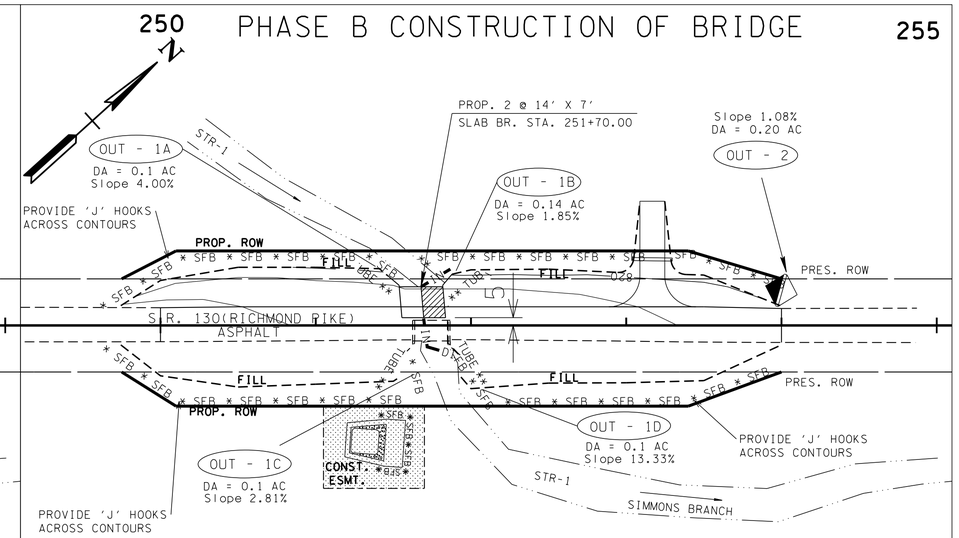
STA. 249+75.00 N 386875.2342
E 1803388.5759

SEE STD. DWG. NO. STD-17-20 FOR LOW FLOW CHANNEL DIVERSION
CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET.

PHASE A CONSTRUCTION OF BRIDGE



PHASE B CONSTRUCTION OF BRIDGE



PROPOSED
CONTOURS SHOWN

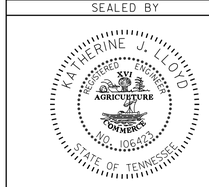
INTERMEDIATE
STAGE

L.M. 4.77

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

7-JUL-2015 10:19
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5.25 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\014A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	14B
CONST.	2015	BR-STP-130(20)	14B

LM 4.77 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 254+00.00 N 387190.9993
E 1803673.8576

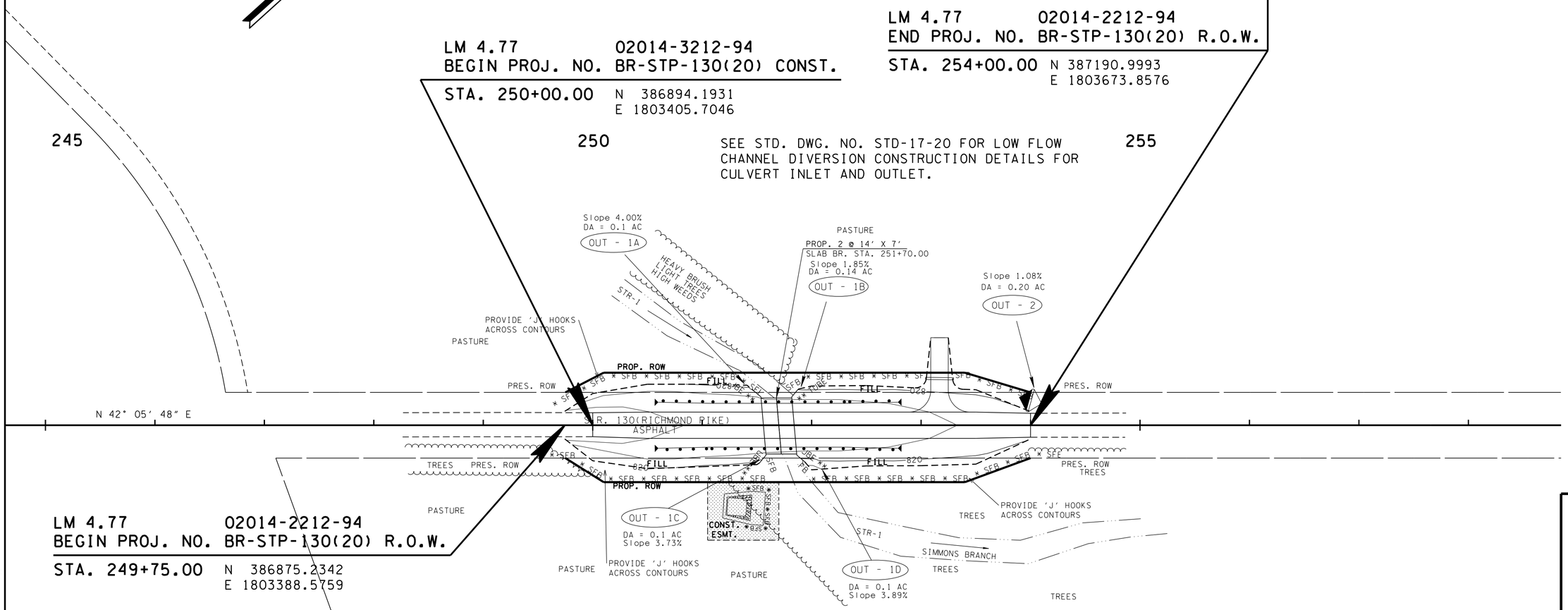
LM 4.77 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 254+00.00 N 387190.9993
E 1803673.8576

LM 4.77 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

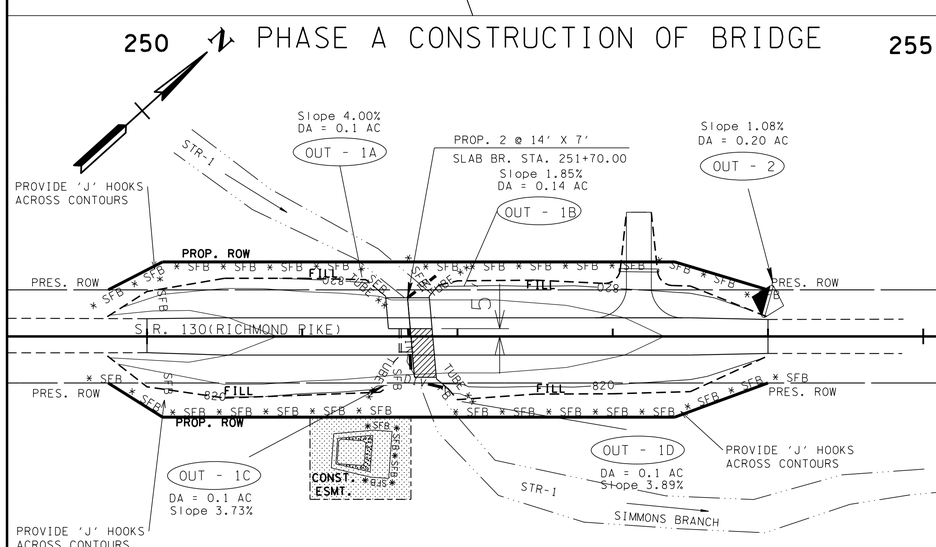
STA. 250+00.00 N 386894.1931
E 1803405.7046

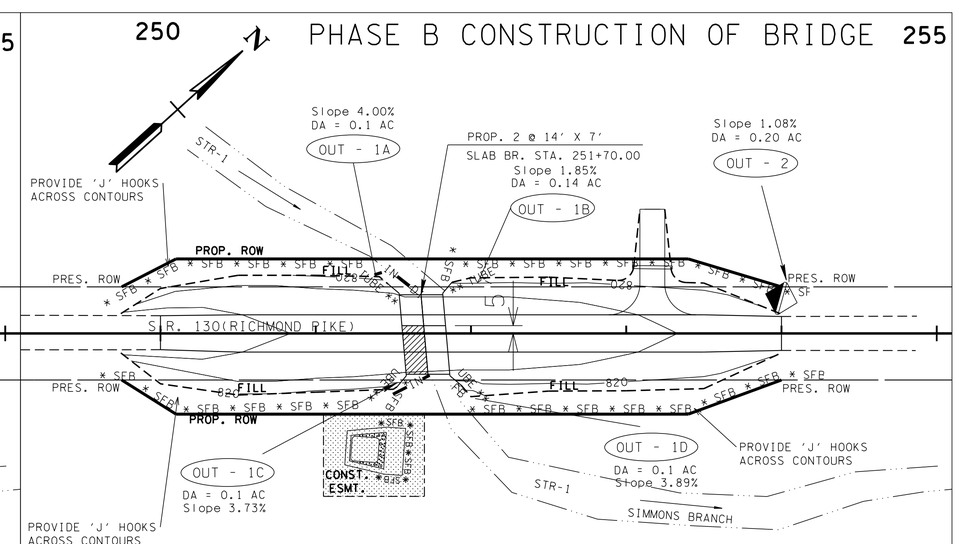
SEE STD. DWG. NO. STD-17-20 FOR LOW FLOW CHANNEL DIVERSION CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET.



LM 4.77 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 249+75.00 N 386875.2342
E 1803388.5759





UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

PROPOSED CONTOURS SHOWN

FINAL STAGE

L.M. 4.77

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

7-JUL-2015 10:19
\\AGO3SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\014B.sht
Sugar Creek LM 4.77,5.45,9.83 and over Branch LM 9.32

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	15
CONST.	2015	BR-STP-130(20)	15

LM 5.45 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 284+75.00 N 389622.3209
E 1805549.9849

LM 5.45 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

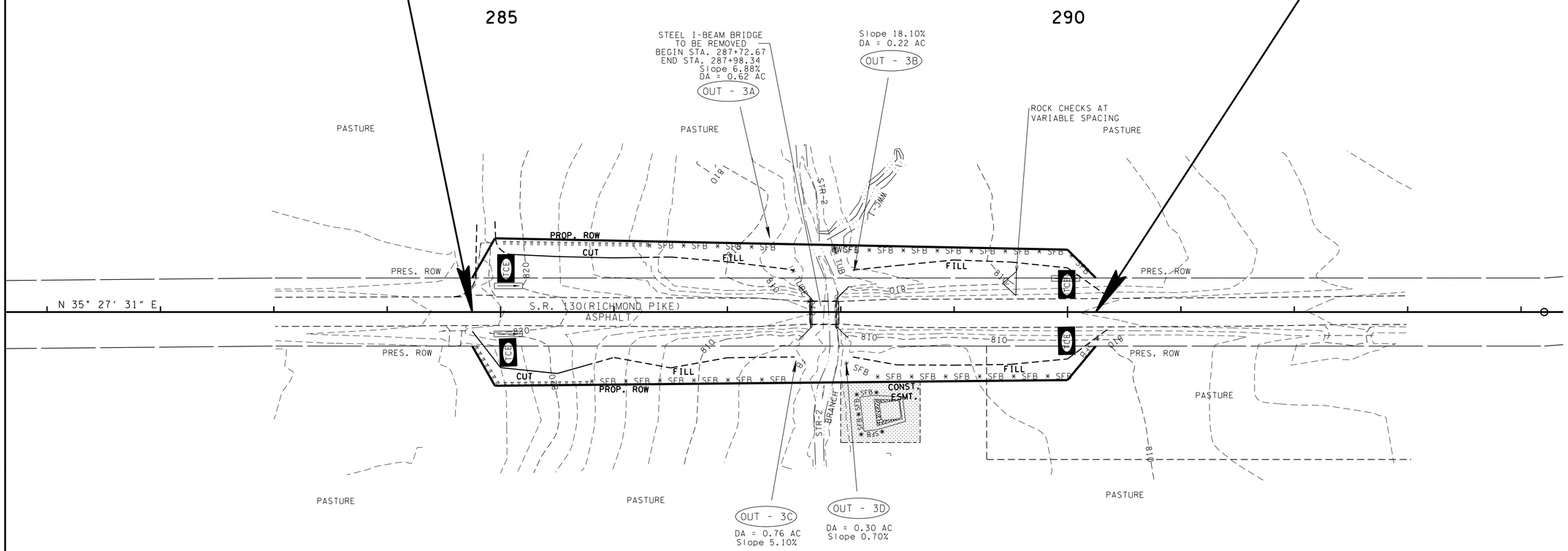
STA. 290+25.00 N 390070.3153
E 1805869.0477

LM 5.45 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 284+75.00 N 389622.3209
E 1805549.9849

LM 5.45 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 290+25.00 N 390070.3153
E 1805869.0477



EXISTING
CONTOURS SHOWN

CLEARING &
GRUBBING
STAGE

L.M. 5.45

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 281+00 TO STA. 294+00
SCALE: 1"= 50'

7-JUL-2015 10:19
\\AGO3SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\015.sht

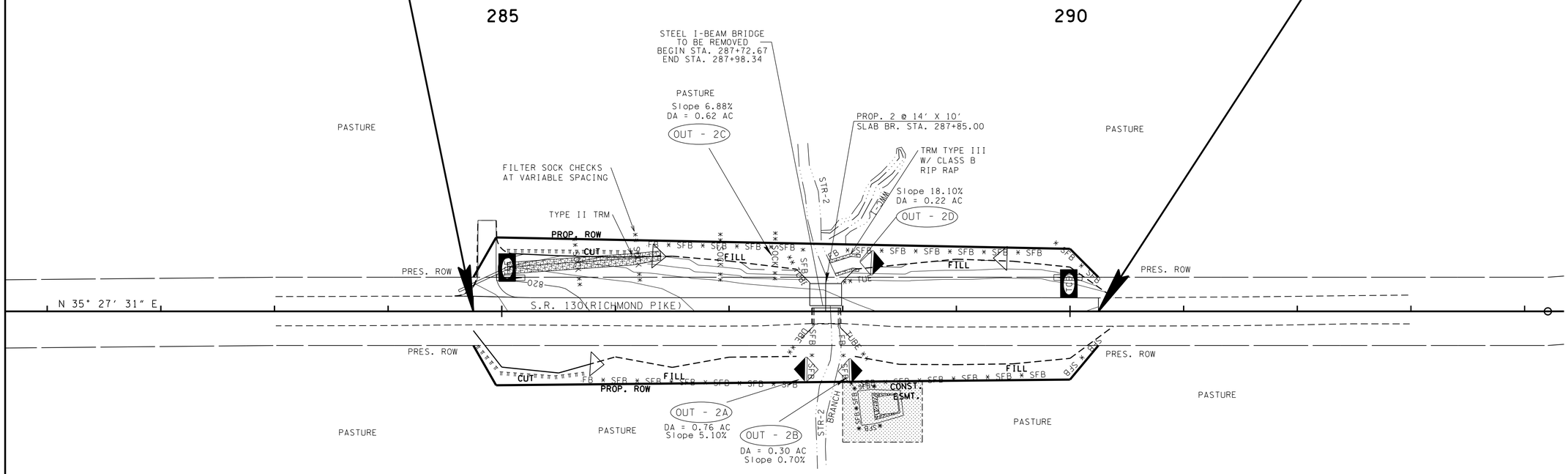
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	15A
CONST.	2015	BR-STP-130(20)	15A

LM 5.45 BEGIN PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.
STA. 284+75.00 N 389622.3209 E 1805549.9849

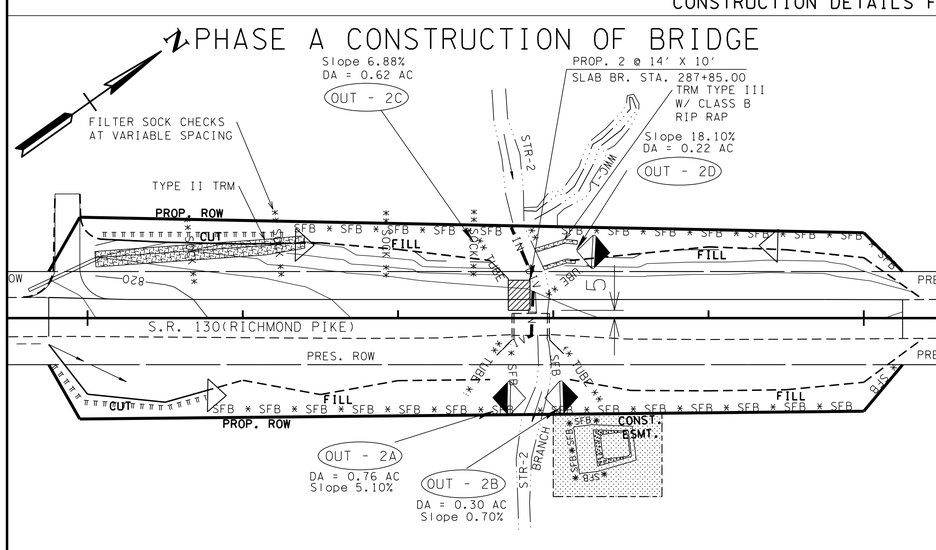
LM 5.45 END PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.
STA. 290+25.00 N 390070.3153 E 1805869.0477

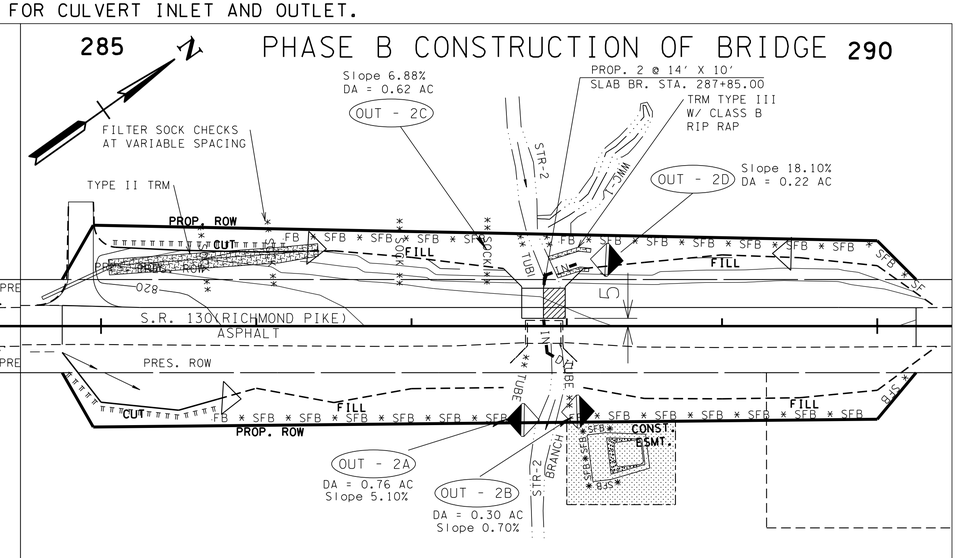
LM 5.45 BEGIN PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.
STA. 284+75.00 N 389622.3209 E 1805549.9849

LM 5.45 END PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.
STA. 290+25.00 N 390070.3153 E 1805869.0477



SEE STD. DWG. NO. STD-17-20 FOR LOW FLOW CHANNEL DIVERSION CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET.





PROPOSED CONTOURS SHOWN

INTERMEDIATE STAGE

L.M. 5.45

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 281+00 TO STA. 294+00

SCALE: 1"= 50'

7-JUL-2015 10:19
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\015A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	15B
CONST.	2015	BR-STP-130(20)	15B

LM 5.45 BEGIN PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.

STA. 284+75.00 N 389622.3209 E 1805549.9849

LM 5.45 END PROJ. NO. 02014-3212-94 BR-STP-130(20) CONST.

STA. 290+25.00 N 390070.3153 E 1805869.0477

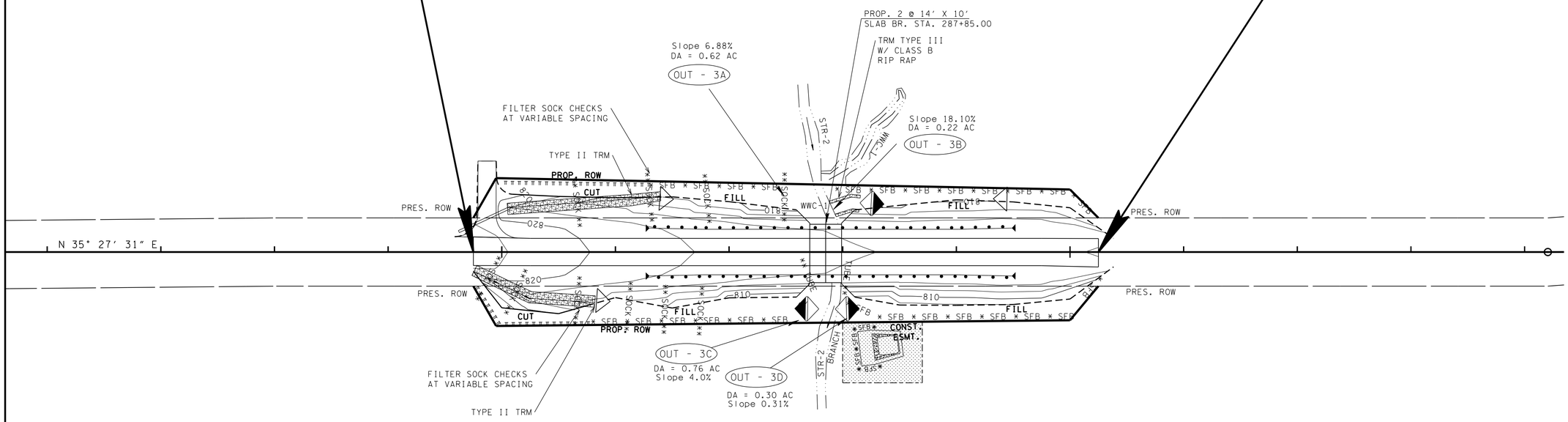
LM 5.45 BEGIN PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.

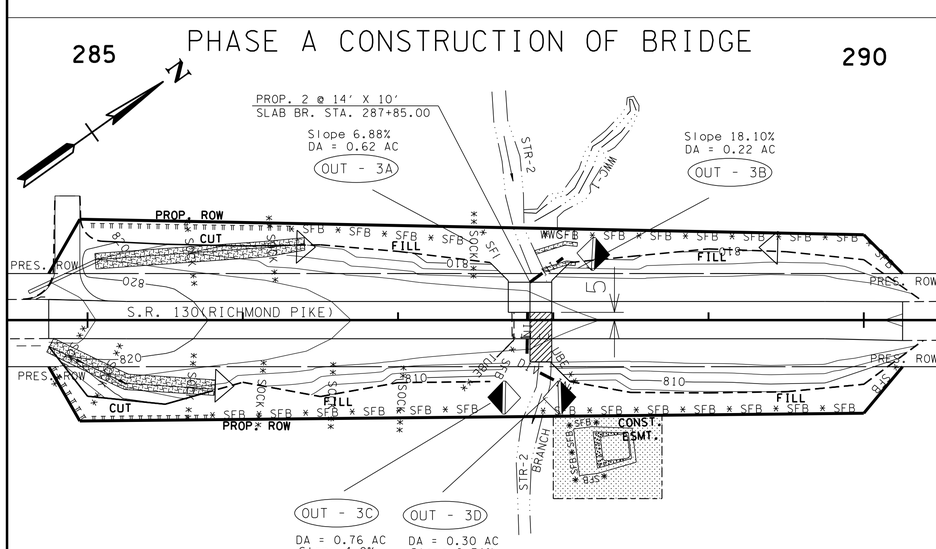
STA. 284+75.00 N 389622.3209 E 1805549.9849

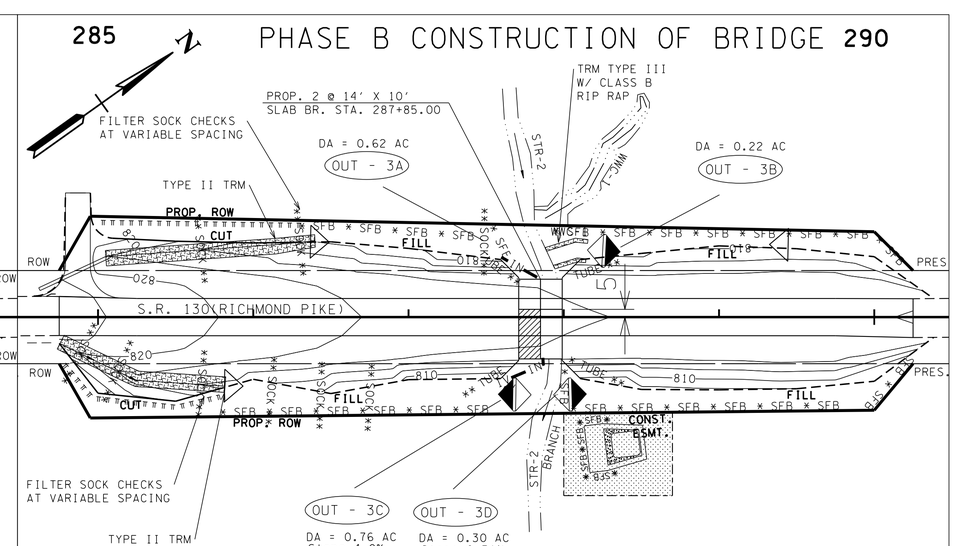
LM 5.45 END PROJ. NO. 02014-2212-94 BR-STP-130(20) R.O.W.

STA. 290+25.00 N 390070.3153 E 1805869.0477

SEE STD. DWG. NO. STD-17-20 FOR LOW FLOW CHANNEL DIVERSION CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET.







PROPOSED CONTOURS SHOWN

FINAL STAGE

L.M. 5.45

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
No. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

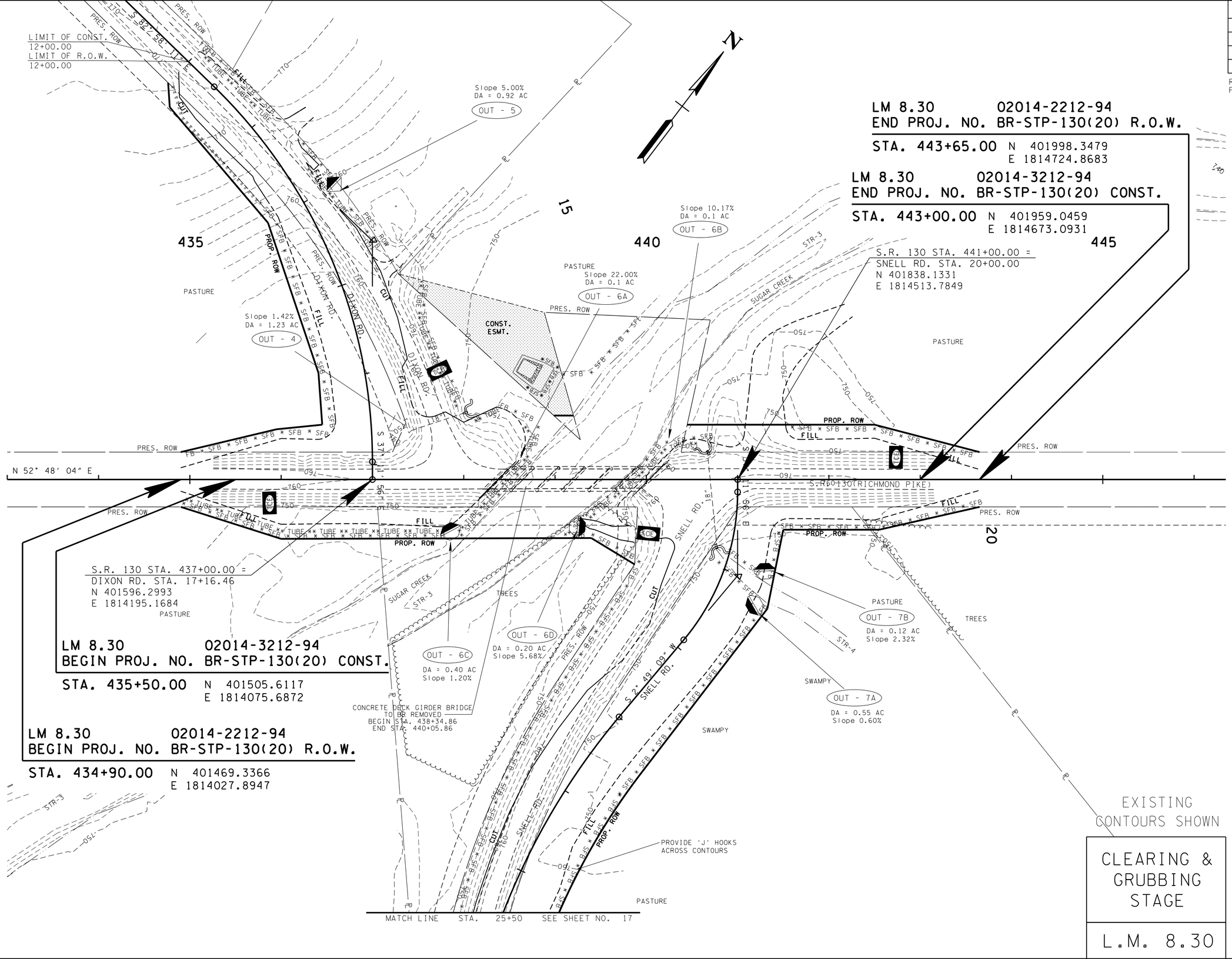
STA. 281+00 TO STA. 294+00

SCALE: 1"= 50'

7-JUL-2015 10:19
\\AGO3SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\015B.sht
r Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\015B.sht
4.77,5.45,9.83 and over Branch LM 9/32S

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	16
CONST.	2015	BR-STP-130(20)	16

REV. 06/22/15: REVISED PROPOSED FIELD ENT. AT STA. 441+30 LEFT.



EXISTING CONTOURS SHOWN

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 433+00 TO STA. 446+00

SCALE: 1"= 50'

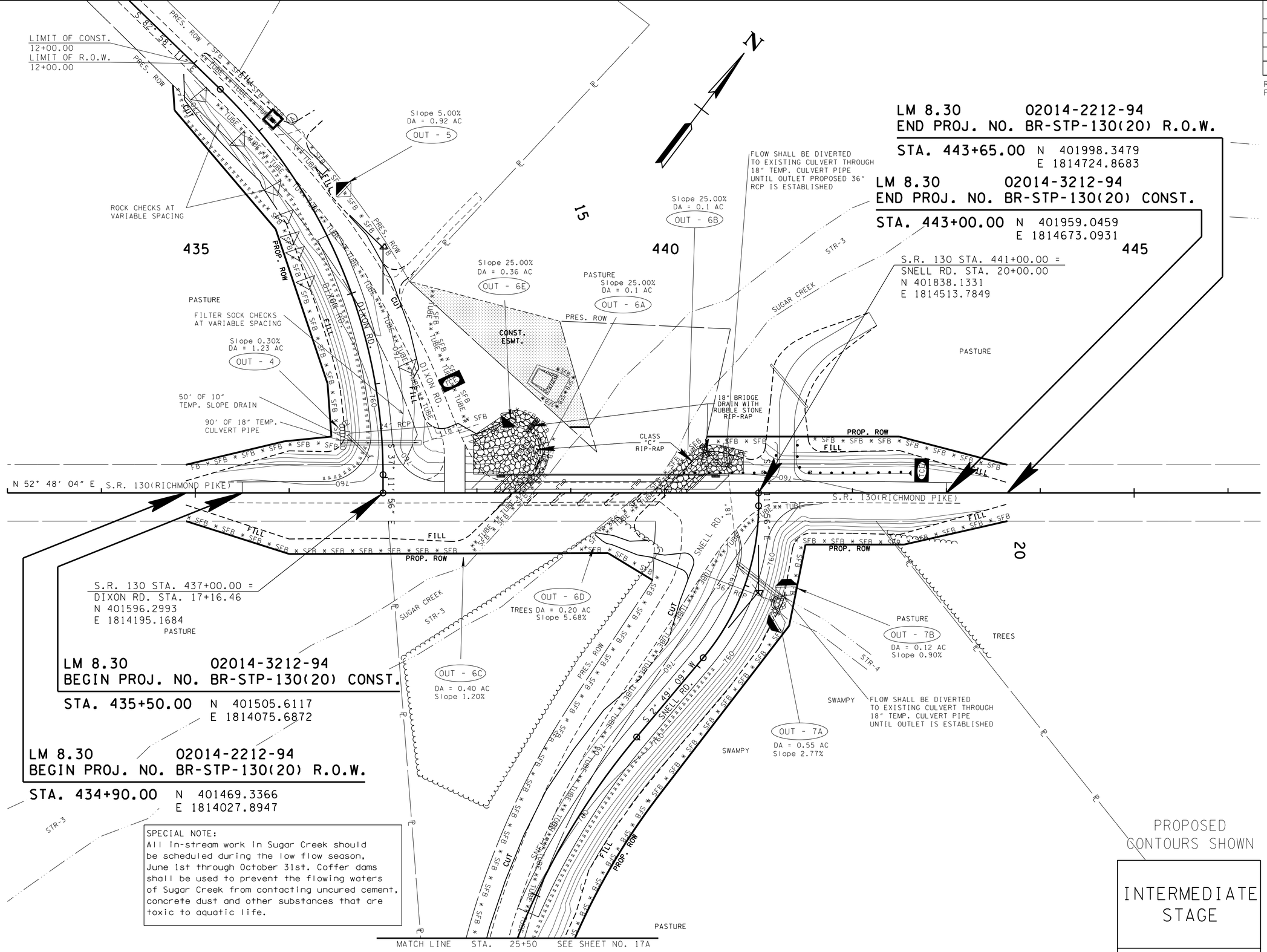
CLEARING & GRUBBING STAGE

L.M. 8.30

7-JUL-2015 10:19
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\016 r062215.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	16A
CONST.	2015	BR-STP-130(20)	16A

REV. 06/22/15: REVISED PROPOSED FIELD ENT. AT STA. 441+30 LEFT.



LM 8.30 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 443+65.00 N 401998.3479
E 1814724.8683

LM 8.30 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 443+00.00 N 401959.0459
E 1814673.0931

S.R. 130 STA. 441+00.00 =
SNELL RD. STA. 20+00.00
N 401838.1331
E 1814513.7849

LM 8.30 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 435+50.00 N 401505.6117
E 1814075.6872

LM 8.30 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 434+90.00 N 401469.3366
E 1814027.8947

SPECIAL NOTE:
All in-stream work in Sugar Creek should be scheduled during the low flow season, June 1st through October 31st. Coffer dams shall be used to prevent the flowing waters of Sugar Creek from contacting uncured cement, concrete dust and other substances that are toxic to aquatic life.

INTERMEDIATE STAGE

L.M. 8.30

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

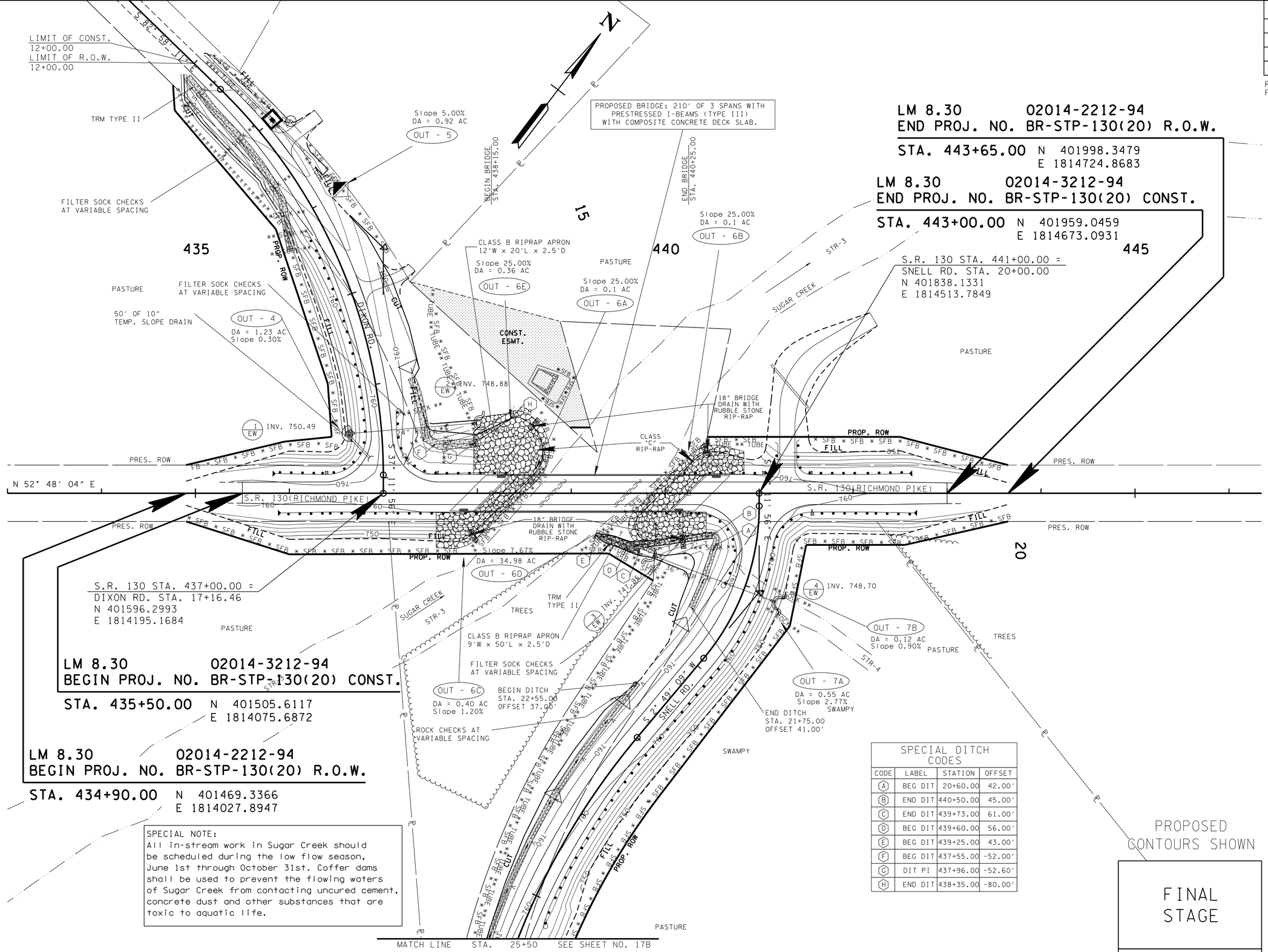
STA. 433+00 TO STA. 446+00

SCALE: 1"= 50'

7-JUL-2015 10:19
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\016A r062215.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	16B
CONST.	2015	BR-STP-130(20)	16B

REV. 06/22/15: REVISED PROPOSED FIELD ENT. AT STA. 441+30 LEFT.



LM 8.30 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 443+65.00 N 401998.3479
E 1814724.8683

LM 8.30 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 443+00.00 N 401959.0459
E 1814673.0931

S.R. 130 STA. 441+00.00 =
SNELL RD. STA. 20+00.00
N 401838.1331
E 1814513.7849

S.R. 130 STA. 437+00.00 =
DIXON RD. STA. 17+16.46
N 401596.2993
E 1814195.1684

LM 8.30 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 435+50.00 N 401505.6117
E 1814075.6872

LM 8.30 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 434+90.00 N 401469.3366
E 1814027.8947

SPECIAL NOTE:
All in-stream work in Sugar Creek should be scheduled during the low flow season, June 1st through October 31st. Coffer dams shall be used to prevent the flowing waters of Sugar Creek from contacting uncured cement, concrete dust and other substances that are toxic to aquatic life.

SPECIAL DITCH CODES

CODE	LABEL	STATION	OFFSET
A	BEG DIT	20+60.00	42.00'
B	END DIT	440+50.00	45.00'
C	END DIT	439+73.00	61.00'
D	BEG DIT	439+60.00	56.00'
E	BEG DIT	439+25.00	43.00'
F	BEG DIT	437+55.00	-52.00'
G	DIT PI	437+96.00	-80.00'
H	END DIT	438+35.00	-80.00'

PROPOSED CONTOURS SHOWN

FINAL STAGE

L.M. 8.30

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
OMNIBUS
NO. 106425
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

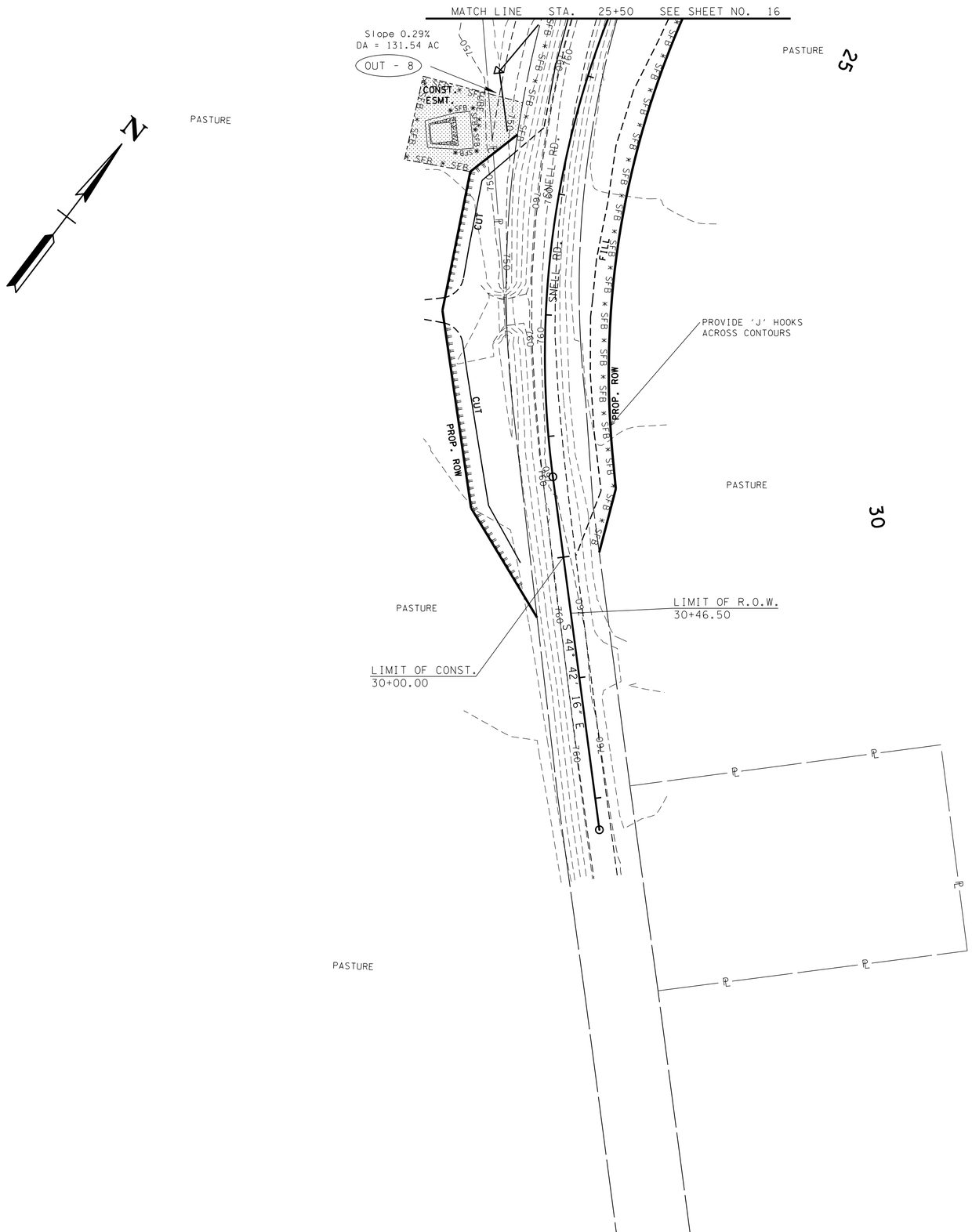
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 433+00 TO STA. 446+00

SCALE: 1"= 50'

\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\016B r062215.sht
7-JUL-2015 10:19

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	17
CONST.	2015	BR-STP-130(20)	17



EXISTING CONTOURS SHOWN

CLEARING & GRUBBING STAGE

SNELL RD.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

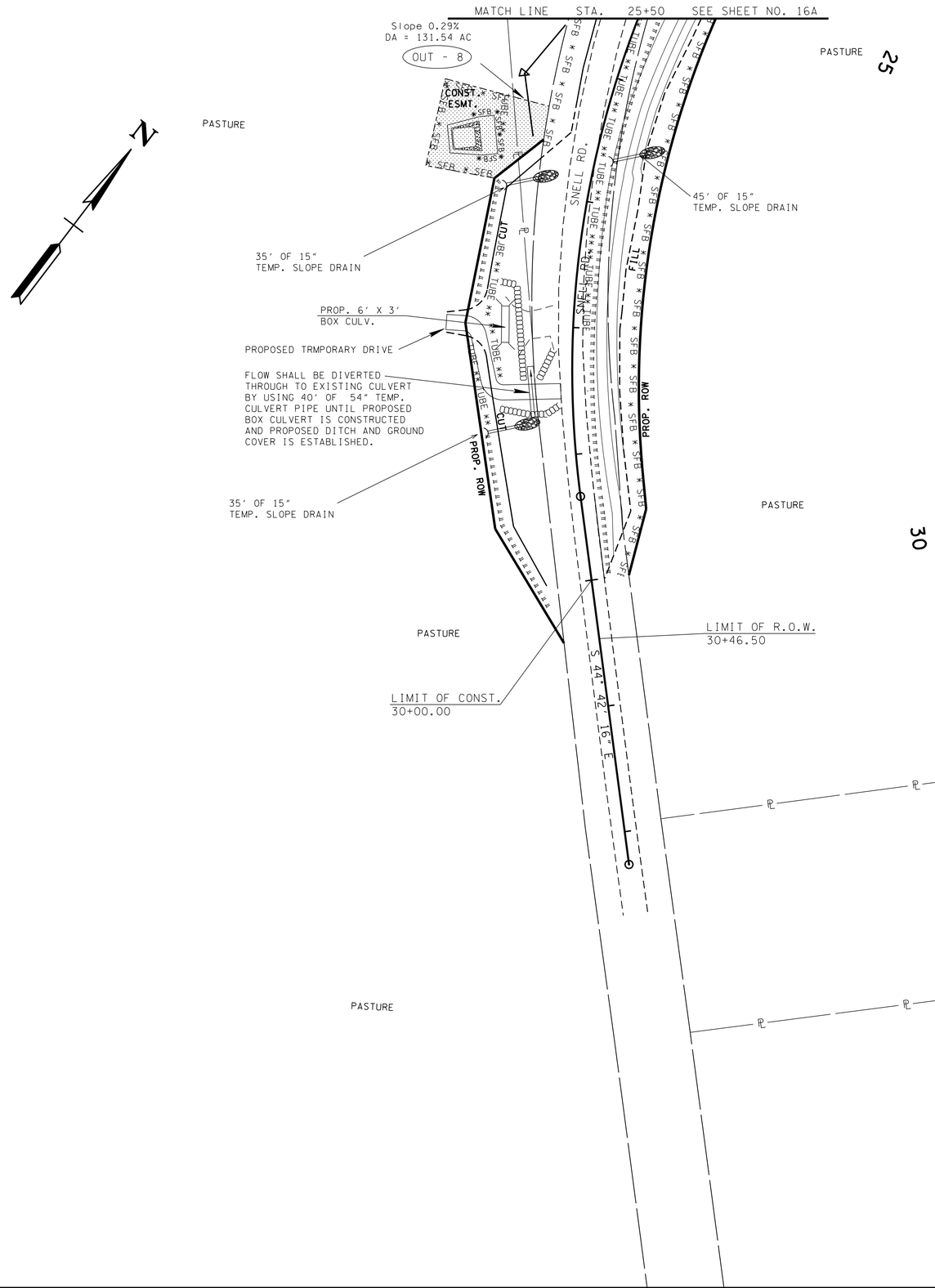
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 25+50 TO STA. 32+00

SCALE: 1"= 50'

7-JUL-2015 10:19
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM^3/$_{32}$s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONSTY017.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	17A
CONST.	2015	BR-STP-130(20)	17A



PROPOSED CONTOURS SHOWN

INTERMEDIATE STAGE

SNELL RD.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

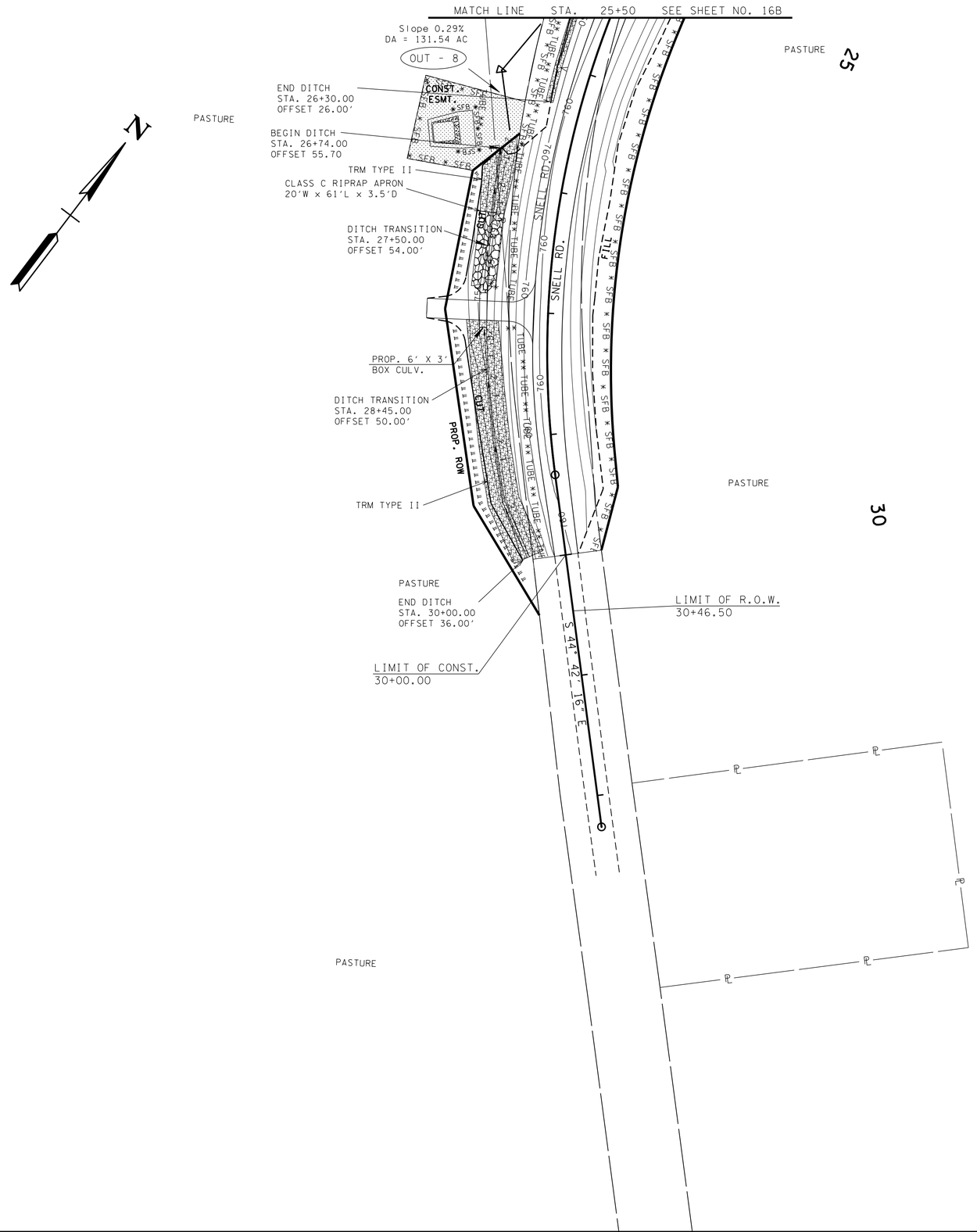
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 25+50 TO STA. 32+00

SCALE: 1"= 50'

7-JUL-2015 10:19
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\017A.sht
ver Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\017A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	17B
CONST.	2015	BR-STP-130(20)	17B



PROPOSED CONTOURS SHOWN

FINAL STAGE

SNELL RD.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106473
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 25+50 TO STA. 32+00

SCALE: 1"= 50'

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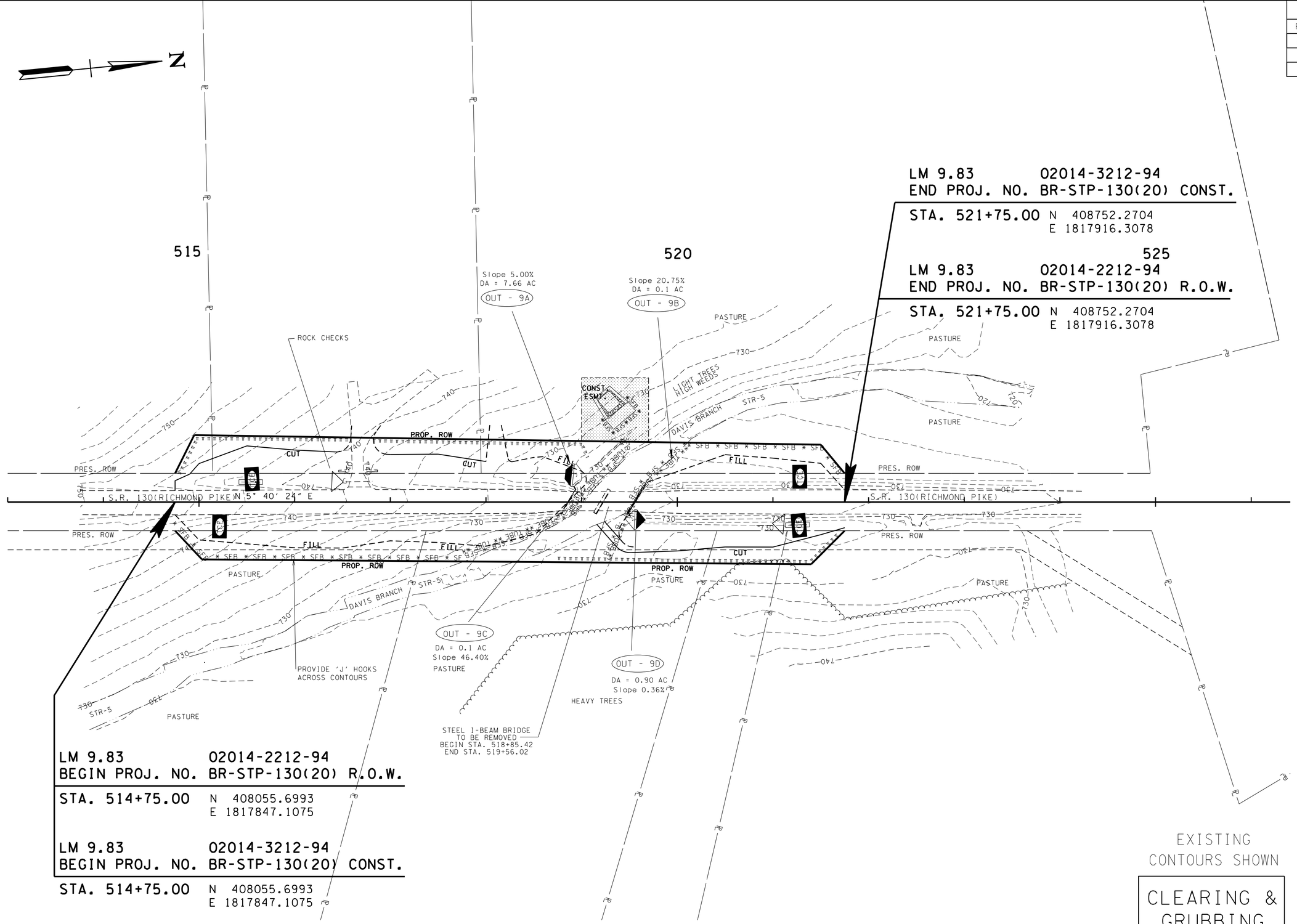
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\115673-00 -CONST\017B.sht
over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\017B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	18
CONST.	2015	BR-STP-130(20)	18



LM 9.83 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 521+75.00 N 408752.2704
E 1817916.3078

LM 9.83 02014-2212-94
END PROJ. NO. BR-STP-130(20) R.O.W.

STA. 521+75.00 N 408752.2704
E 1817916.3078

LM 9.83 02014-2212-94
BEGIN PROJ. NO. BR-STP-130(20) R.O.W.

STA. 514+75.00 N 408055.6993
E 1817847.1075

LM 9.83 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 514+75.00 N 408055.6993
E 1817847.1075

EXISTING
CONTOURS SHOWN

CLEARING &
GRUBBING
STAGE

L.M. 9.83

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
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XVI AGRICULTURE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 513+00 TO STA. 526+00

SCALE: 1"= 50'

Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\018.sht
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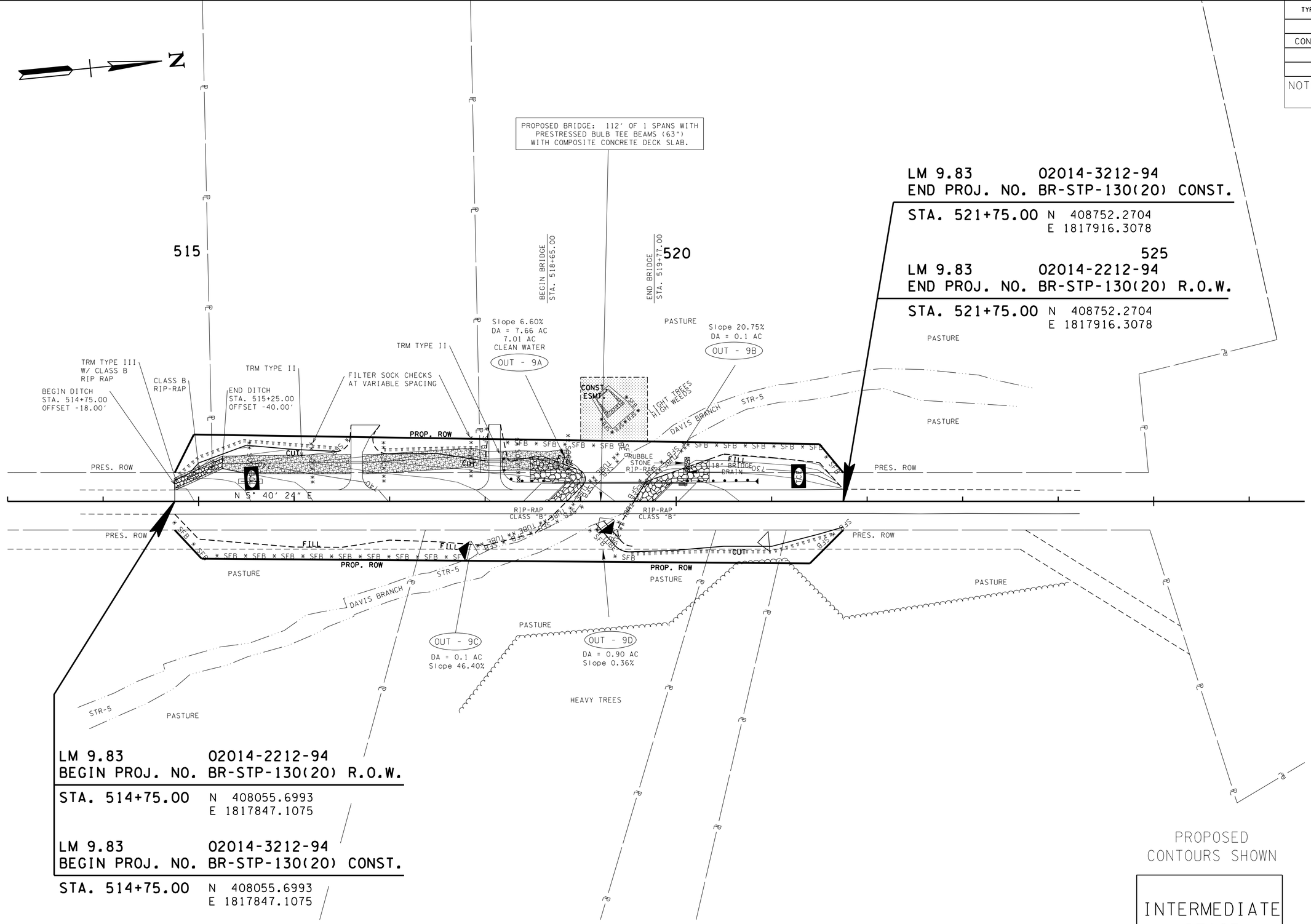
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	18A

NOTE: SHEET 18A NOT USED FOR RIGHT OF WAY.



PROPOSED CONTOURS SHOWN

INTERMEDIATE STAGE

L.M. 9.83

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

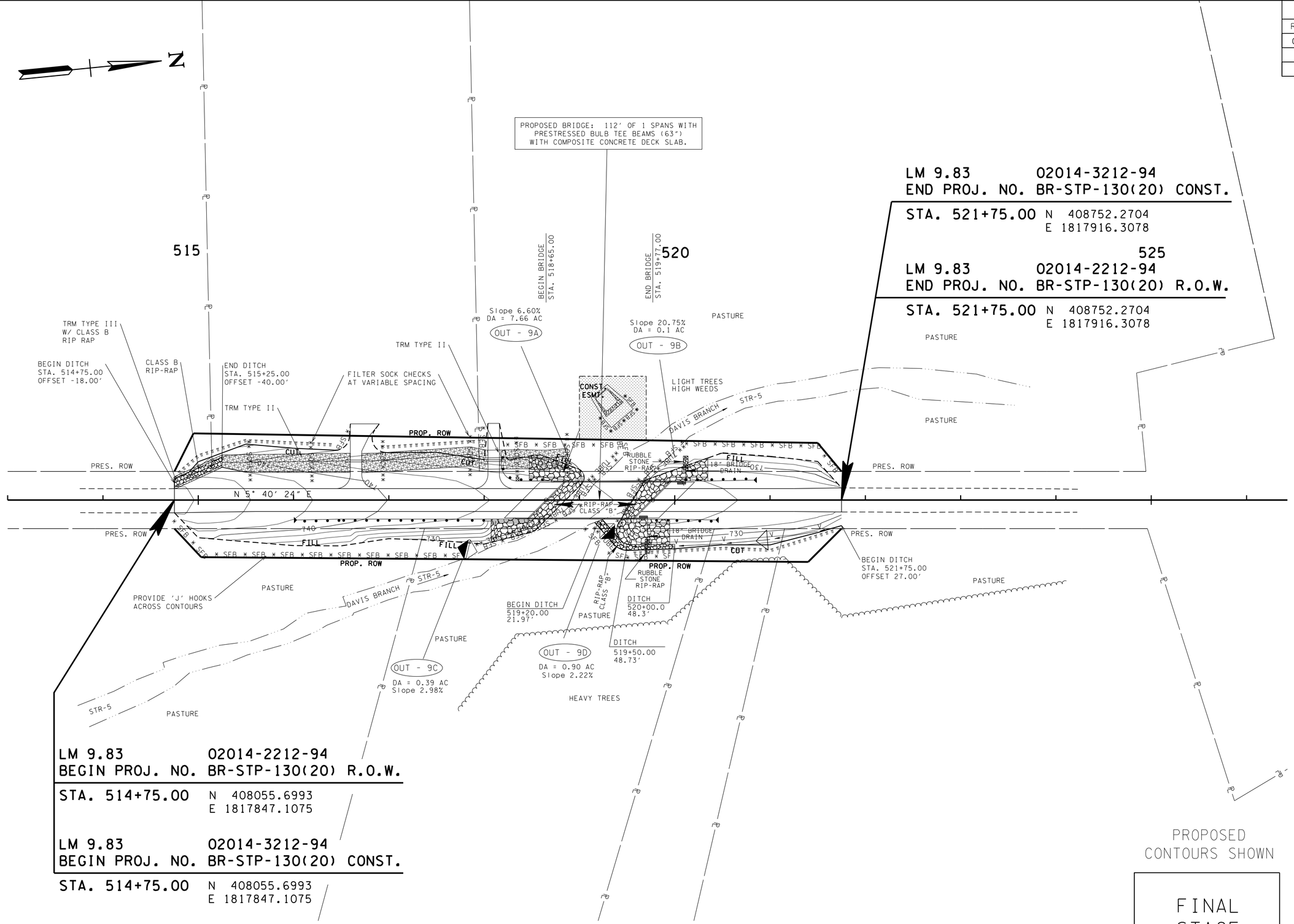
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 513+00 TO STA. 525+00

SCALE: 1"= 50'

Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\018A.sht
7-JUL-2015 10:19
\\AG035DCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM9/325 4.77,5.45,9.83 and over Sugar Creek

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BR-STP-130(20)	18B
CONST.	2015	BR-STP-130(20)	18B



PROPOSED CONTOURS SHOWN

FINAL STAGE

L.M. 9.83

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 513+00 TO STA. 525+00

SCALE: 1"= 50'

Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\018B.sht

7-JUL-2015 10:19
\\AG035DCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM9.32S 4.77,5.45,9.83 and over

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	19

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

17-JUL-2015 10:19
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32 as 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\019.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	19A

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR
	TEMPORARY BARRICADE (TYPE III)
	CHANGEABLE MESSAGE SIGN

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	L.M. 4.77 QUANTITY	L.M. 5.45 QUANTITY	L.M. 8.30 QUANTITY	L.M. 9.83 QUANTITY	TOTAL QUANTITY NEEDED
712-01	TRAFFIC CONTROL	LS	0.25	0.25	0.25	0.25	1
705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	50	65	48	48	211
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	6	4	6	6	22
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1000	1300	950	950	4200
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	50	50	110	40	250
712-06	SIGNS (CONSTRUCTION)	S.F.	438.5	420.5	678.0	530.0	2067
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	0	0	80	0	80
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	5760	6060	9260	4760	25840
712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	62	24	100	24	210
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH				2	2
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.6	0.8	3.5	1.1	6
730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	1	1	1	1	4

SIGN QUANTITIES

DESCRIPTION	UNIT	L.M. 4.77 QUANTITY	L.M. 5.45 QUANTITY	L.M. 8.30 QUANTITY	L.M. 9.83 QUANTITY	TOTAL QUANTITY NEEDED	SIZE	S.F. EACH	ITEM NO. 712-06 (S.F.)	M.U.T.C.D. NO.	REMARKS
ROAD WORK 1/2 MILE	S.F.	2	2	2	3	9	48" x 48"	16.00	144.0	W20-1	SEE STD. DWG. T-WZ-32
ROAD WORK 1500 FT	S.F.	2	2	2	3	9	48" x 48"	16.00	144.0	W20-1	SEE STD. DWG. T-WZ-32
ROAD WORK 1000 FT	S.F.	2	2	4	3	11	48" x 48"	16.00	176.0	W20-1	SEE STD. DWG. T-WZ-32
ROAD WORK 500 FT	S.F.	2	2	4	2	10	48" x 48"	16.00	160.0	W20-1	SEE STD. DWG. T-WZ-32
ONE LANE ROAD 1500 FT	S.F.	2	2	2	1	7	48" x 48"	16.00	112.0	W20-4	SEE STD. DWG. T-WZ-32
ONE LANE BRIDGE 2.4 MILES, H. CLEARANCE 10 FEET	S.F.	1	0	0	0	1	78" X 48"	26.00	26.0	SPECIAL	SEE STD. DWG. T-WZ-35
ONE LANE BRIDGE 1.6 MILES, H. CLEARANCE 10 FEET	S.F.	1	0	2	1	4	78" X 48"	26.00	104.0	SPECIAL	SEE STD. DWG. T-WZ-35
ONE LANE BRIDGE 3.1 MILES, H. CLEARANCE 10 FEET	S.F.	0	1	0	0	1	78" X 48"	26.00	26.0	SPECIAL	SEE STD. DWG. T-WZ-35
ONE LANE BRIDGE 1 MILE, H. CLEARANCE 10 FEET	S.F.	0	1	0	0	1	78" X 48"	26.00	26.0	SPECIAL	SEE STD. DWG. T-WZ-35
ONE LANE BRIDGE 1000 FEET, H. CLEARANCE 10 FEET	S.F.	0	0	0	2	2	78" X 48"	26.00	52.0	SPECIAL	SEE STD. DWG. T-WZ-35
FOR SR 130	S.F.	0	0	0	4	4	36" X 18"	4.50	18.0	SPECIAL	
FLAGGER - SYMBOL	S.F.	2	2	4	3	11	36" x 36"	9.00	99.0	W20-7	SEE STD. DWG. T-WZ-32
1000 FEET - SUPPLEMENTAL	S.F.	2	2	4	3	11	24" x 18"	3.00	33.0	W16-2P	SEE STD. DWG. T-WZ-32
SIGNAL AHEAD SYMBOL	S.F.	2	2	4	4	12	30" x 30"	6.25	75.0	W3-3	SEE STD. DWG. T-WZ-32
BE PREPARED TO STOP	S.F.	2	2	4	3	11	48" x 48"	16.00	176.0	W3-4	SEE STD. DWG. T-WZ-35
STAY IN LANE TO EXTEND GREEN	S.F.	2	2	4	2	10	30" x 42"	8.75	87.5	R10-6(MOD)	SEE STD. DWG. T-WZ-35
STOP HERE ON RED	S.F.	2	2	4	2	10	24" x 36"	6.00	60.0	R10-6	SEE STD. DWG. T-WZ-35
NO TURN ON RED	S.F.	1	1	3	2	7	30" x 36"	7.50	52.5	R10-11A	
MAXIMUM X MINUTE RED	S.F.	2	2	4	2	10	42" x 48"	14.00	140.0	SPECIAL	SEE STD. DWG. T-WZ-35
LANE SHIFT (SYMBOL)	S.F.	2	2	2	2	8	30" x 30"	6.25	50.0	W1-4aR	SEE STD. DWG. T-WZ-32
ROAD CLOSED	S.F.	0	0	4	0	4	48" x 30"	10.00	40.0	R11-2	
MAINTAIN XX MPH SPEED	S.F.	2	2	2	2	8	42" x 36"	10.50	84.0	SPECIAL	SEE STD. DWG. T-WZ-35
ROAD WORK AHEAD	S.F.	2	1	2	0	5	36" x 36"	9.00	45.0	W20-1	SEE STD. DWG. T-WZ-32
NO PASSING ZONE	S.F.	1	1	0	0	2	36" x 48" X 48"	5.50	11.0	W14-3	
HORIZ CLEARANCE 10 FEET	S.F.	2	2	2	1	7	36" x 36"	9.00	63.0	SPECIAL	SEE STD. DWG. T-WZ-35
END ROAD WORK	S.F.	4	2	4	4	14	36" x 18"	4.50	63.0	G20-2	SEE STD. DWG. T-WZ-32
TOTALS		**438.5 S.F.**	**420.5 S.F.**	**678.0 S.F.**	**530.0 S.F.**	**189**			**2067.0 S.F.**		

TRAFFIC CONTROL SEQUENCE OF CONSTRUCTION

NOTE: THE CONTRACTOR SHALL UTILIZE AS MUCH OF THE WORK ZONE AS POSSIBLE AS SHOWN IN EACH PHASE OF THE TRAFFIC CONTROL WHEN CONSTRUCTING THE PROPOSED ROADWAY TO ELIMINATE TRAFFIC INTERFERENCE WITH ADDITIONAL PHASING.

BRIDGE AT L.M. 4.77 & 5.45

TRAFFIC CONTROL PHASE 1:

1. INSTALL ADVANCE WARNING SIGNS FOR TRAFFIC CONTROL FOR S.R. 130. SEE SHEET NO'S. 20 AND 21 FOR DETAILS.

TRAFFIC CONTROL PHASE 2:

1. INSTALL TRAFFIC SIGNAL SYSTEM AS SHOWN ON STANDARD DRAWING NO. T-WZ-32 THRU 35.
2. MAINTAIN AN 11 FOOT TRAFFIC LANE ON THE EAST BOUND SIDE OF THE EXISTING BRIDGE AND CLOSE THE WEST BOUND LANE AS SHOWN ON SHEET NO'S. 20A AND 21A.
3. REMOVE AS MUCH AS POSSIBLE OF THE EXISTING BRIDGE ON THE WEST BOUND SIDE WHILE MAINTAINING AN 11 FOOT TRAFFIC LANE AS SHOWN ON CULVERT CROSS SECTION, SHEET NO. 12.
4. CONSTRUCT 20 FEET OF THE PROPOSED SLAB BRIDGE USING STAGE CONSTRUCTION FOR EACH BARREL.

   SEE EROSION PREVENTION AND SEDIMENT CONTROL PLAN FOR STAGE CONSTRUCTION, SHEET NO'S. 14A AND 15A.
5. THE CONTRACTOR SHALL CONSTRUCT AS MUCH AS POSSIBLE OF THE WEST BOUND SIDE OF S.R. 130 WHILE CONSTRUCTING AND PAVE A DETOUR ON TOP OF THE NEW 20 FOOT SECTION OF THE SLAB BRIDGE AS SHOWN IN THE TYPICAL SECTION ON SHEET NO. 2D.

TRAFFIC CONTROL PHASE 3:

1. INSTALL TRAFFIC CONTROL DEVICES TO ROUTE TRAFFIC ON THE NEW DETOUR CONSTRUCTED IN PHASE 2 THEN SHIFT TRAFFIC ON TO THE DETOUR. SEE SHEET NO. 20B AND 21B FOR DETAILS.
2. REMOVE THE REMAINING EXISTING BRIDGE AND CONSTRUCT THE REMAINING 31 FEET OF THE PROPOSED SLAB BRIDGE USING STAGE CONSTRUCTION FOR EACH BARREL.

   SEE EROSION PREVENTION AND SEDIMENT CONTROL PLAN FOR STAGE CONSTRUCTION, SHEET NO'S. 14B AND 15B.
3. THE CONTRACTOR SHALL CONSTRUCT AS MUCH AS POSSIBLE OF THE EAST BOUND SIDE OF S.R. 130 INCLUDING PAVING AND GUARDRAIL.

TRAFFIC CONTROL PHASE 4:

1. INSTALL TRAFFIC CONTROL DEVICES TO ROUTE TRAFFIC ON THE NEW EAST BOUND SIDE OF S.R. 130.
2. CONSTRUCT THE PROPOSED SUBGRADE, PAVEMENT AND GUARDRAIL ON THE PROPOSED WEST BOUND SIDE OF S.R. 130.
3. FINALIZE CONSTRUCTION.

BRIDGE AT L.M. 8.30 & 9.83

TRAFFIC CONTROL PHASE 1:

1. INSTALL ADVANCE WARNING SIGNS FOR TRAFFIC CONTROL FOR S.R. 130. SEE SHEET NO'S. 22, 23 AND 24 FOR DETAILS.

TRAFFIC CONTROL PHASE 2:

1. INSTALL TRAFFIC SIGNAL SYSTEM AS SHOWN ON STANDARD DRAWING NO. T-WZ-32 THRU 35.
2. MAINTAIN AN 11 FOOT TRAFFIC LANE ON THE EAST BOUND SIDE OF THE EXISTING BRIDGE AND CLOSE THE WEST BOUND LANE AS SHOWN ON SHEET NO'S. 22A, 23A AND 24A.
3. REMOVE AS MUCH AS POSSIBLE OF THE EXISTING BRIDGE ON THE WEST BOUND SIDE.
4. CONSTRUCT AS MUCH AS POSSIBLE OF THE PROPOSED CONCRETE DECK BRIDGE WITH I BEAMS OR BULB TEE BEAMS AS REQUIRED ON THE WEST BOUND SIDE.
5. THE CONTRACTOR SHALL CONSTRUCT AS MUCH AS POSSIBLE OF THE WEST BOUND SIDE OF S.R. 130 AND DIXON AND SNELL ROAD, INCLUDING PAVING AND GUARDRAIL. FOR DETAILS OF WORK ZONE SEE SHEET NO'S. 22A, 23A AND 24A.

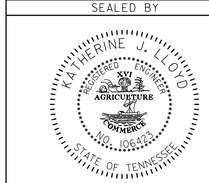
TRAFFIC CONTROL PHASE 3:

1. INSTALL TRAFFIC CONTROL DEVICES TO ROUTE TRAFFIC ON THE NEW PORTION OF THE BRIDGE FOR S.R. 130 ON THE WEST BOUND SIDE AND THEN SHIFT TRAFFIC. SEE SHEET NO'S. 22B, 23B AND 24B FOR DETAILS.
2. REMOVE THE REMAINING EXISTING BRIDGE AND CONSTRUCT THE REMAINING PORTION OF THE PROPOSED CONCRETE DECK BRIDGE WITH I BEAM OR BULB TEE BEAMS AS REQUIRED ON THE EAST BOUND SIDE
3. THE CONTRACTOR SHALL CONSTRUCT AS MUCH AS POSSIBLE OF THE EAST BOUND SIDE OF S.R. 130 AND COMPLETE DIXON AND SNELL ROAD CONSTRUCTION, INCLUDING PAVING AND GUARDRAIL. FOR DETAILS OF WORK ZONE SEE SHEET NO'S. 22B, 23B AND 24B.
4. FINALIZE CONSTRUCTION.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

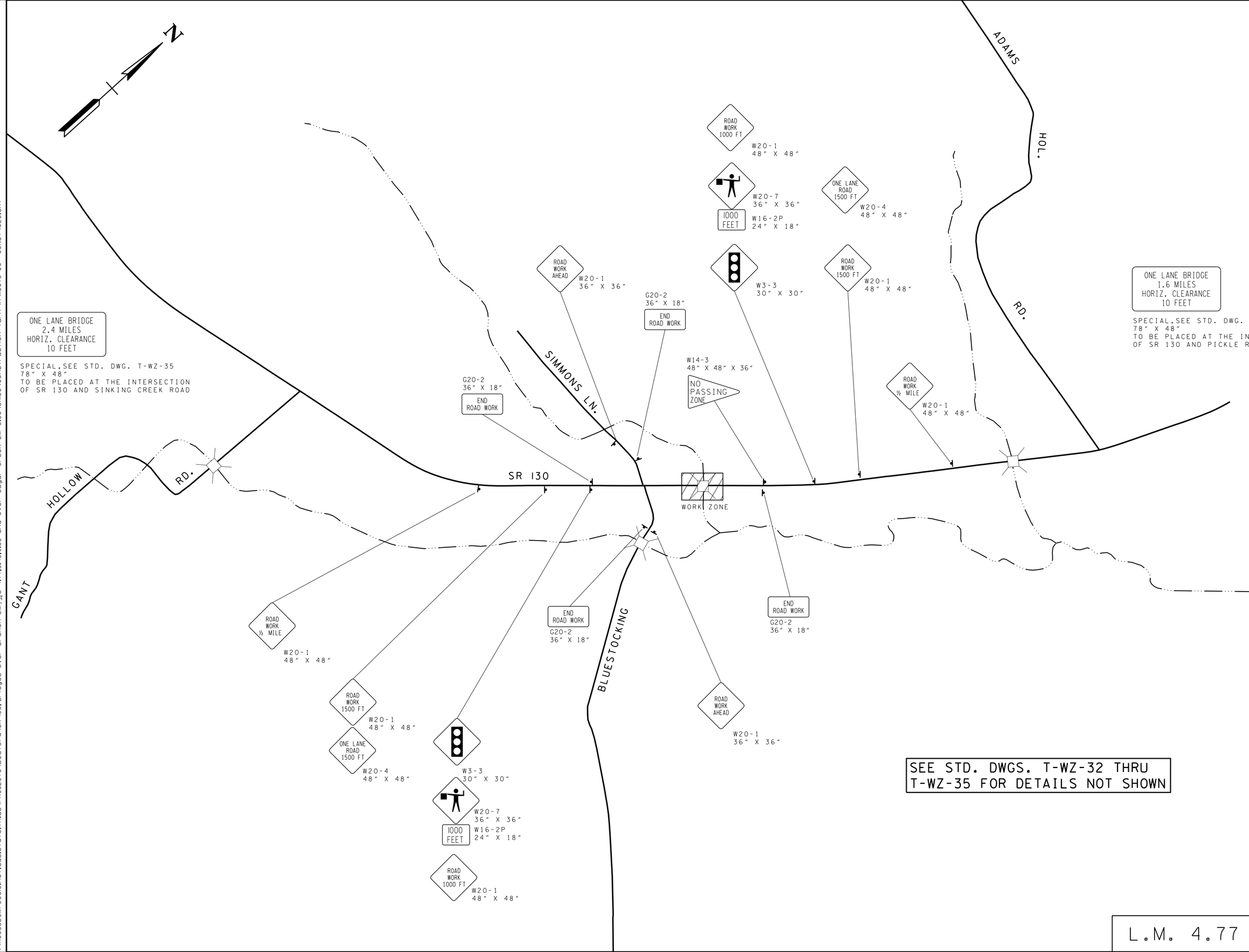


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TABULATION, LEGEND AND SEQUENCE OF CONSTRUCTION

7-JUL-2015 10:20
\\AG03SDCWF0001O\net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\019A.sht
Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\019A.sht
Bridges over Branch LM 4.77,5.45,9.83 and over Sugar Creek LM 8.30

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	20



SEE STD. DWGS. T-WZ-32 THRU T-WZ-35 FOR DETAILS NOT SHOWN

L.M. 4.77

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

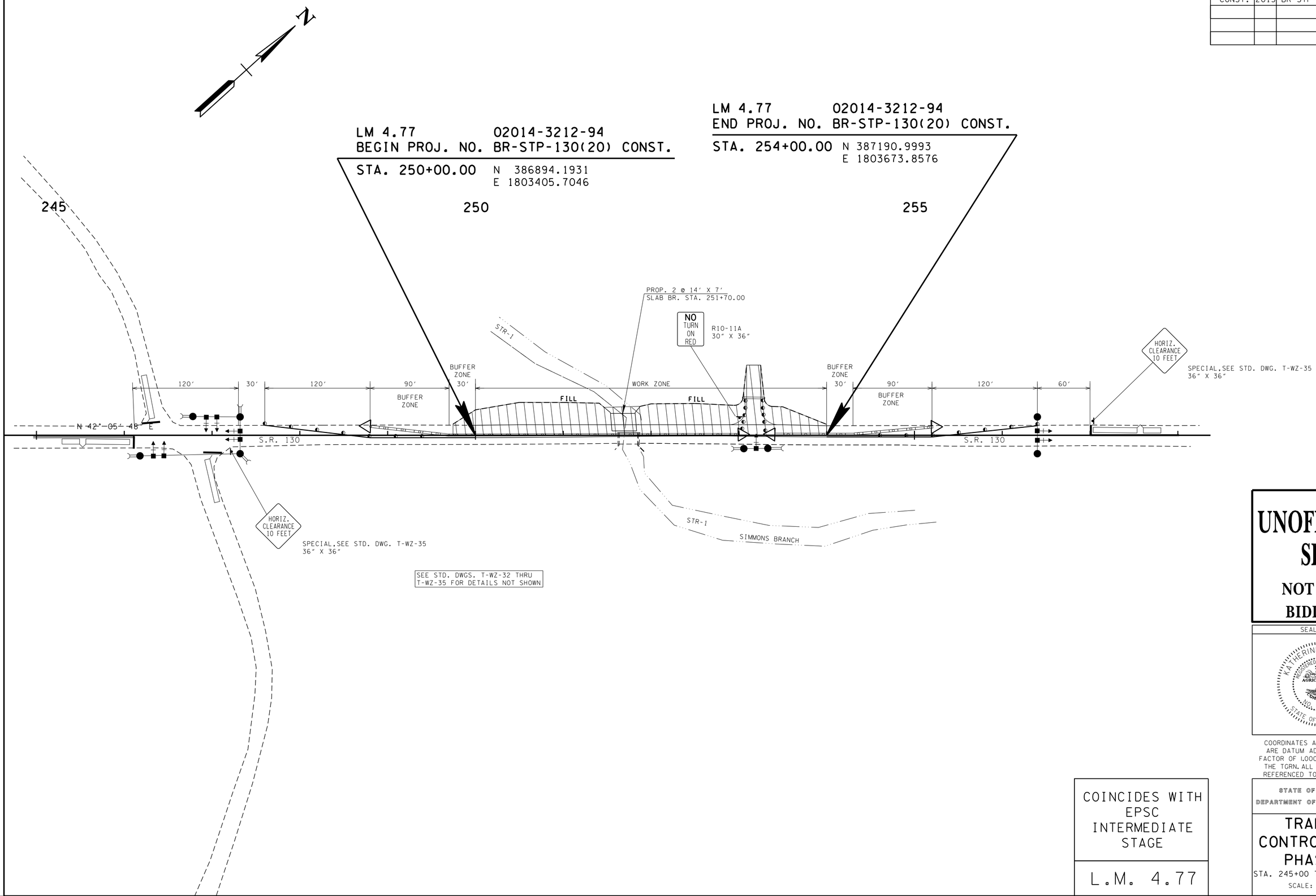
TRAFFIC CONTROL PLAN PHASE 1

ADVANCE WARNING SIGNS

SCALE: 1"=500'

7-JUL-2015 10:21
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\115673-00 -CONST\020.sht
and over Sugar Creek LM 4.77,5.45,9.83

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	20A



COINCIDES WITH EPSC INTERMEDIATE STAGE

L.M. 4.77

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

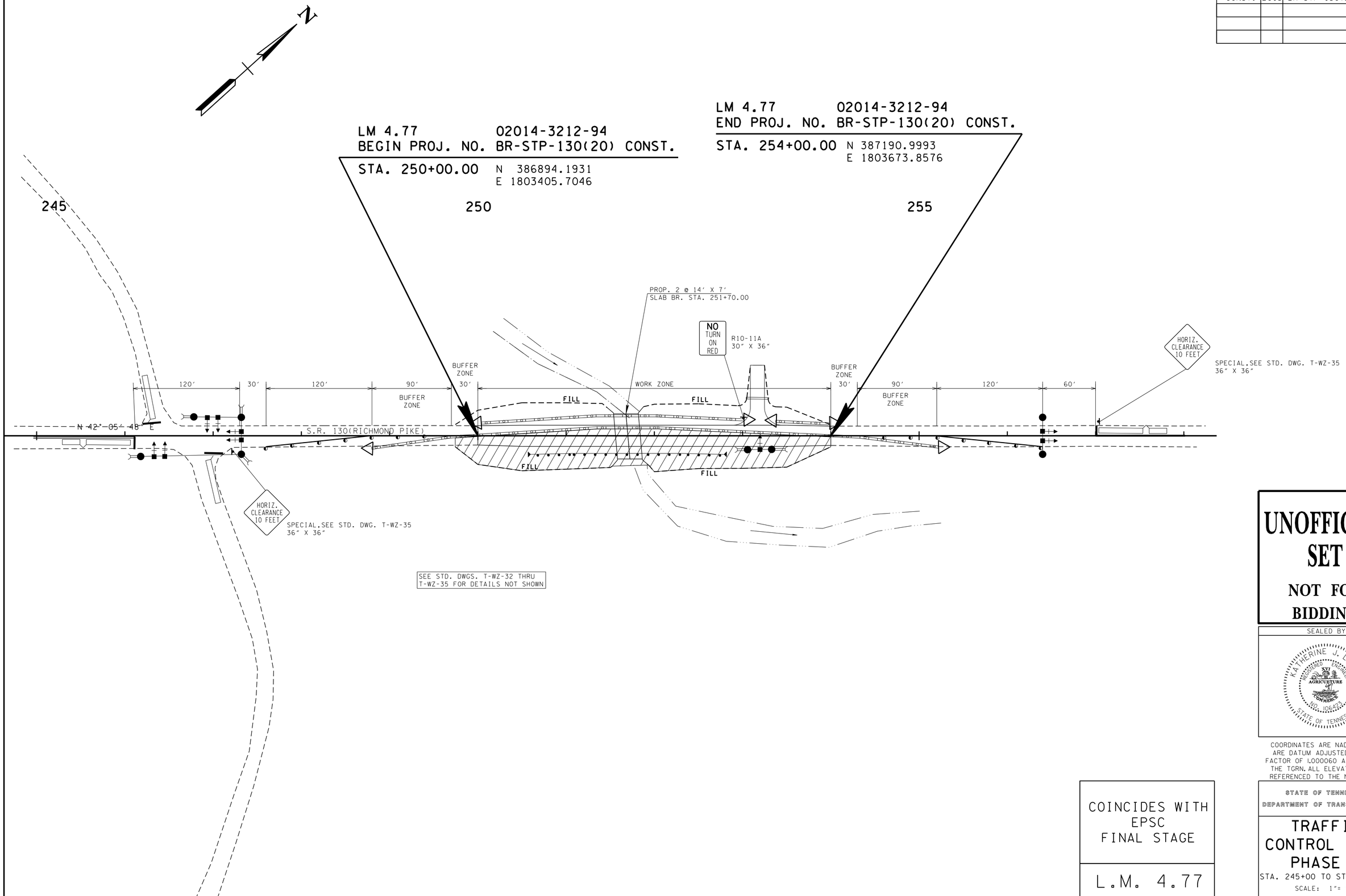
TRAFFIC CONTROL PLAN PHASE 2

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SRI30\Construction Turn In\I15673-00 -CONST\020A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	20B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

COINCIDES WITH EPSC FINAL STAGE

L.M. 4.77

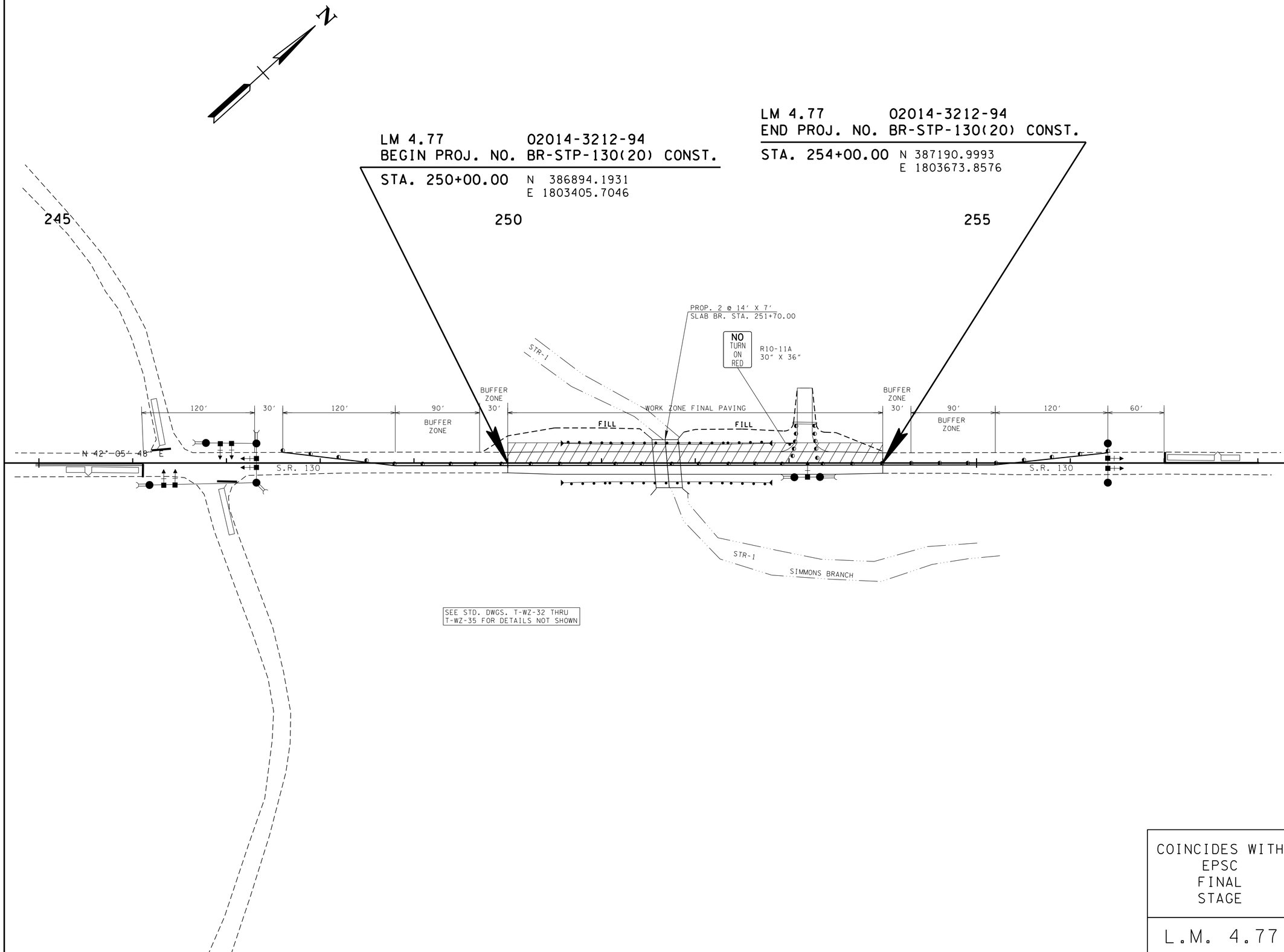
TRAFFIC CONTROL PLAN PHASE 3

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0001Q.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\020B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	20C



SEE STD. DWGS. T-WZ-32 THRU T-WZ-35 FOR DETAILS NOT SHOWN

COINCIDES WITH EPSC FINAL STAGE

L.M. 4.77

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

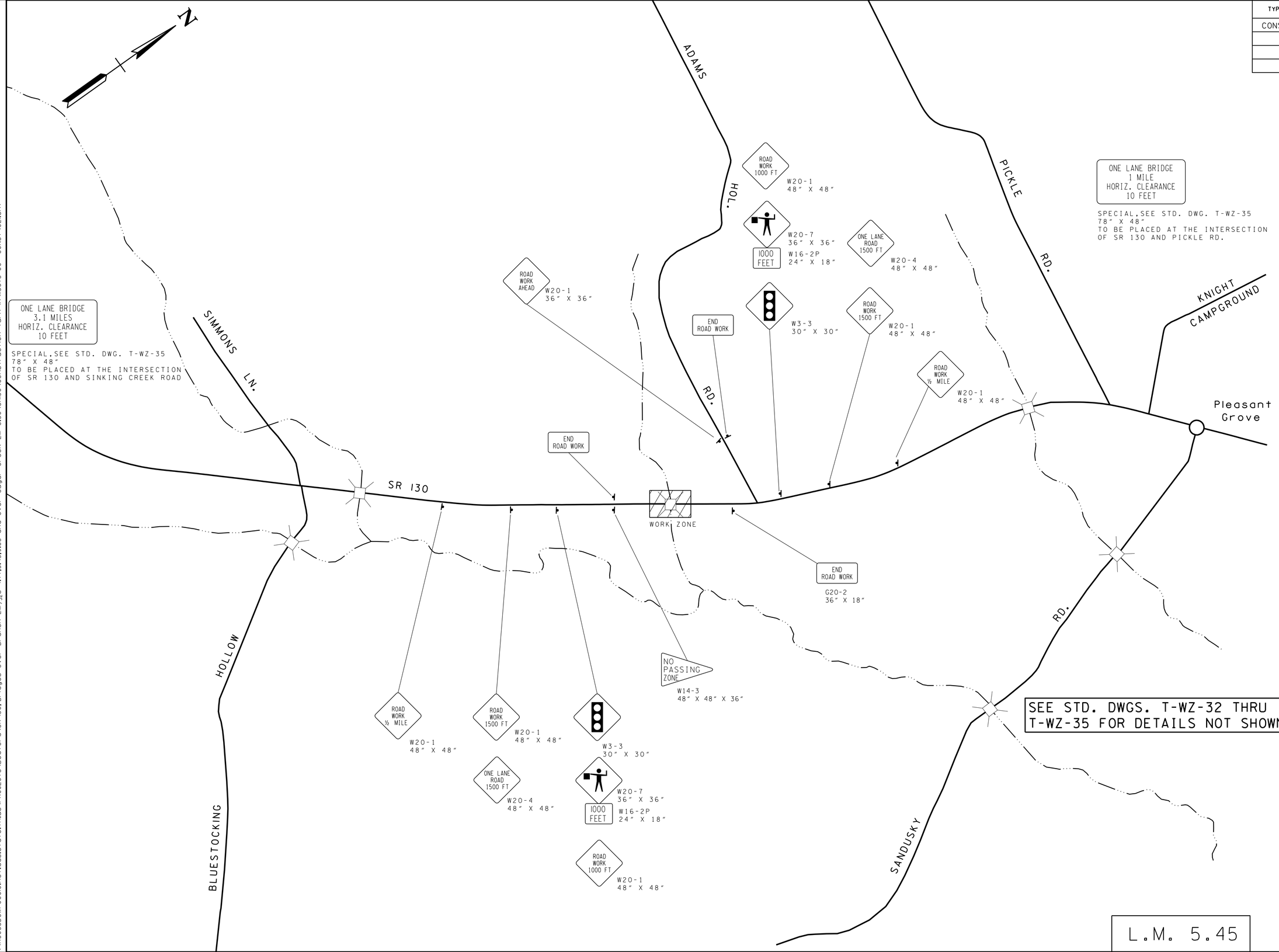
TRAFFIC CONTROL PLAN PHASE 4 FINAL PAVING

STA. 245+00 TO STA. 258+00

SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0001Q.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONSTY020C.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	21



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

ADVANCE WARNING SIGNS

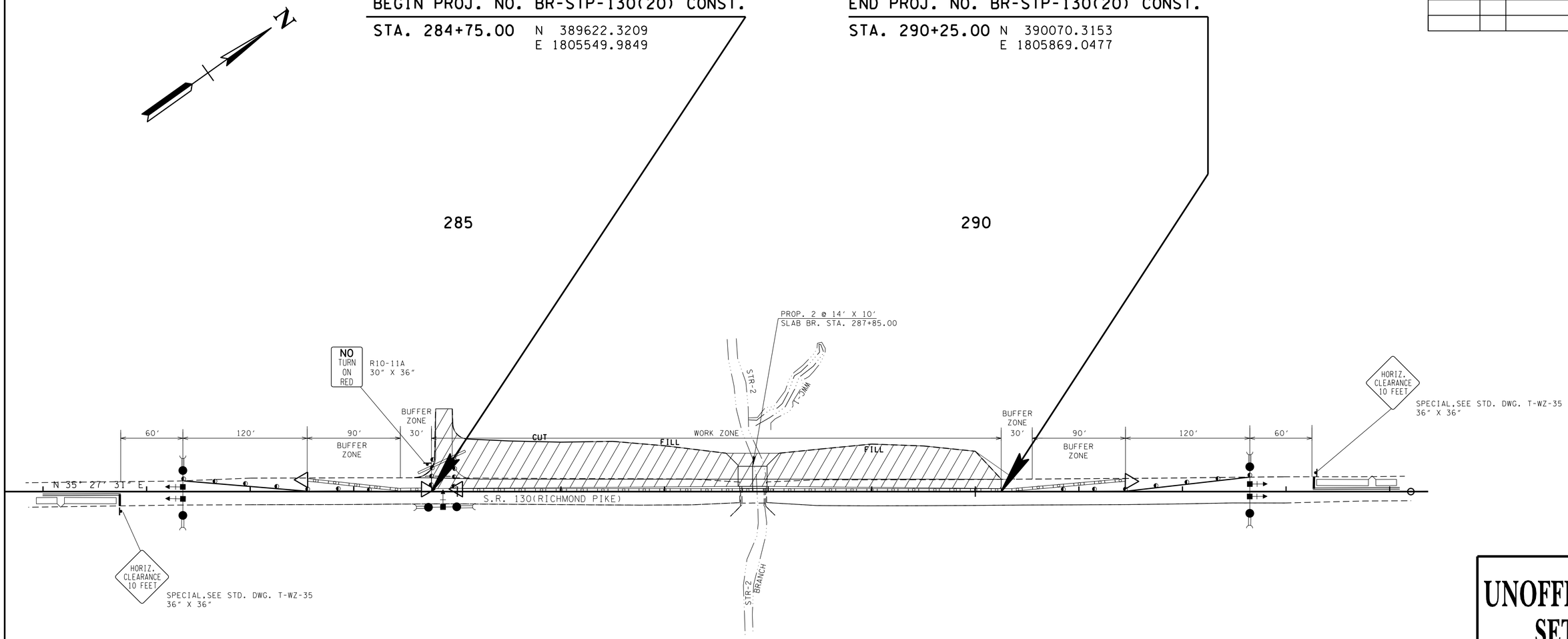
SCALE: 1"=500'

7-JUL-2015 10:21
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5.45 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\021.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	21A

LM 5.45 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.
STA. 284+75.00 N 389622.3209
E 1805549.9849

LM 5.45 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.
STA. 290+25.00 N 390070.3153
E 1805869.0477



SEE STD. DWGS. T-WZ-32 THRU
T-WZ-35 FOR DETAILS NOT SHOWN

COINCIDES WITH
EPSC
INTERMEDIATE
STAGE

L.M. 5.45

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE 2

STA. 281+00 TO STA. 294+00
SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03DCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 4.77, 5.45, 9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\021A.sht

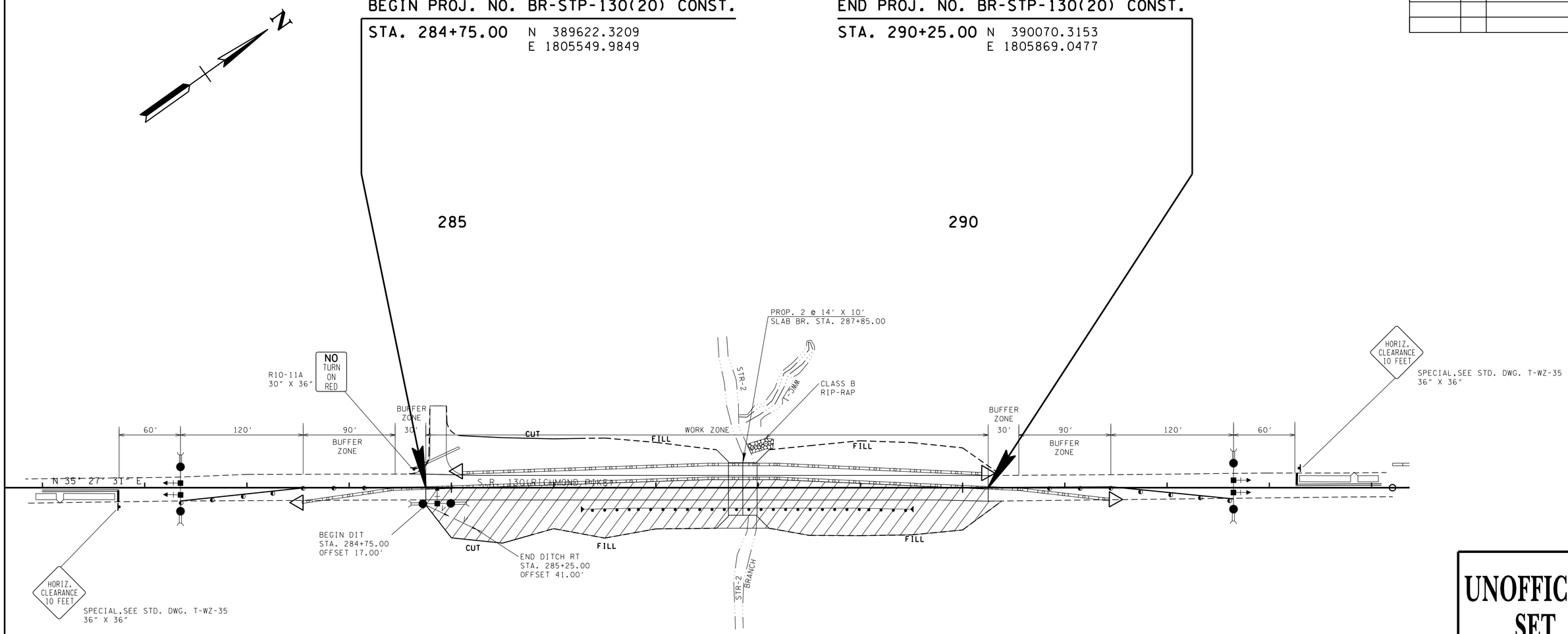
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	21B

LM 5.45 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 284+75.00 N 389622.3209
E 1805549.9849

LM 5.45 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 290+25.00 N 390070.3153
E 1805869.0477



SEE STD. DWGS. T-WZ-32 THRU
T-WZ-35 FOR DETAILS NOT SHOWN

COINCIDES WITH
EPSC
FINAL STAGE

L.M. 5.45

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLAN
PHASE 3

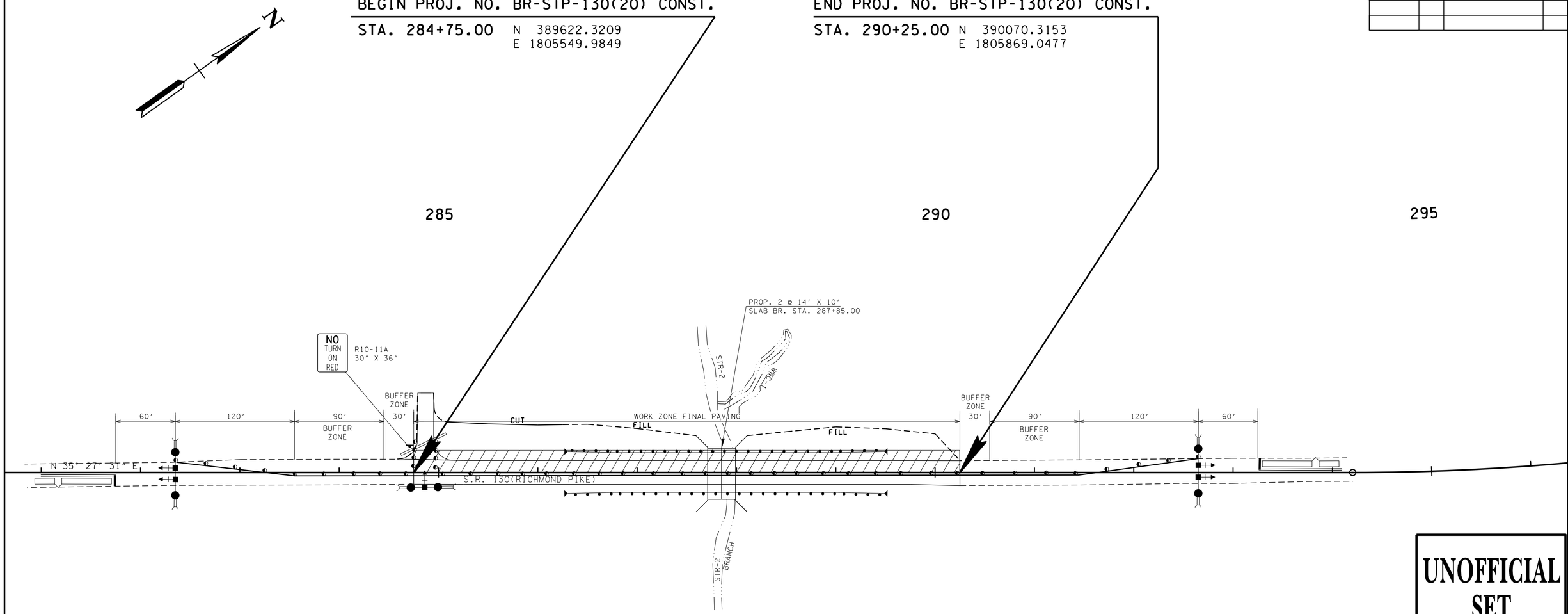
STA. 281+00 TO STA. 294+00
SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\021B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	21C

LM 5.45 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.
STA. 284+75.00 N 389622.3209
E 1805549.9849

LM 5.45 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.
STA. 290+25.00 N 390070.3153
E 1805869.0477



SEE STD. DWGS. T-WZ-32 THRU
T-WZ-35 FOR DETAILS NOT SHOWN

COINCIDES WITH
EPSC
FINAL
STAGE

L.M. 5.45

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

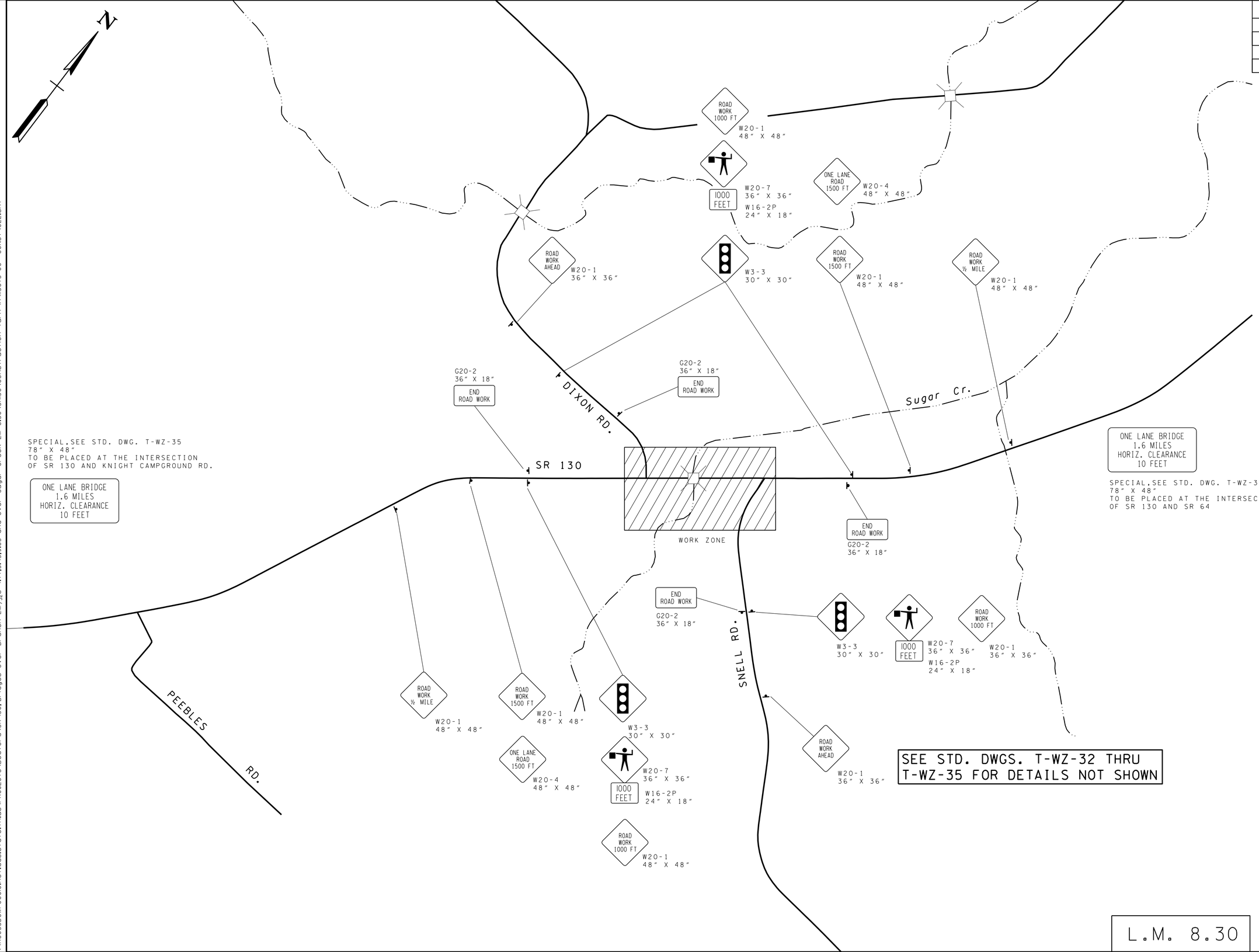
TRAFFIC CONTROL PLAN PHASE 4 FINAL PAVING

STA. 281+00 TO STA. 294+00

SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0001Q.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONST\021C.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	22



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

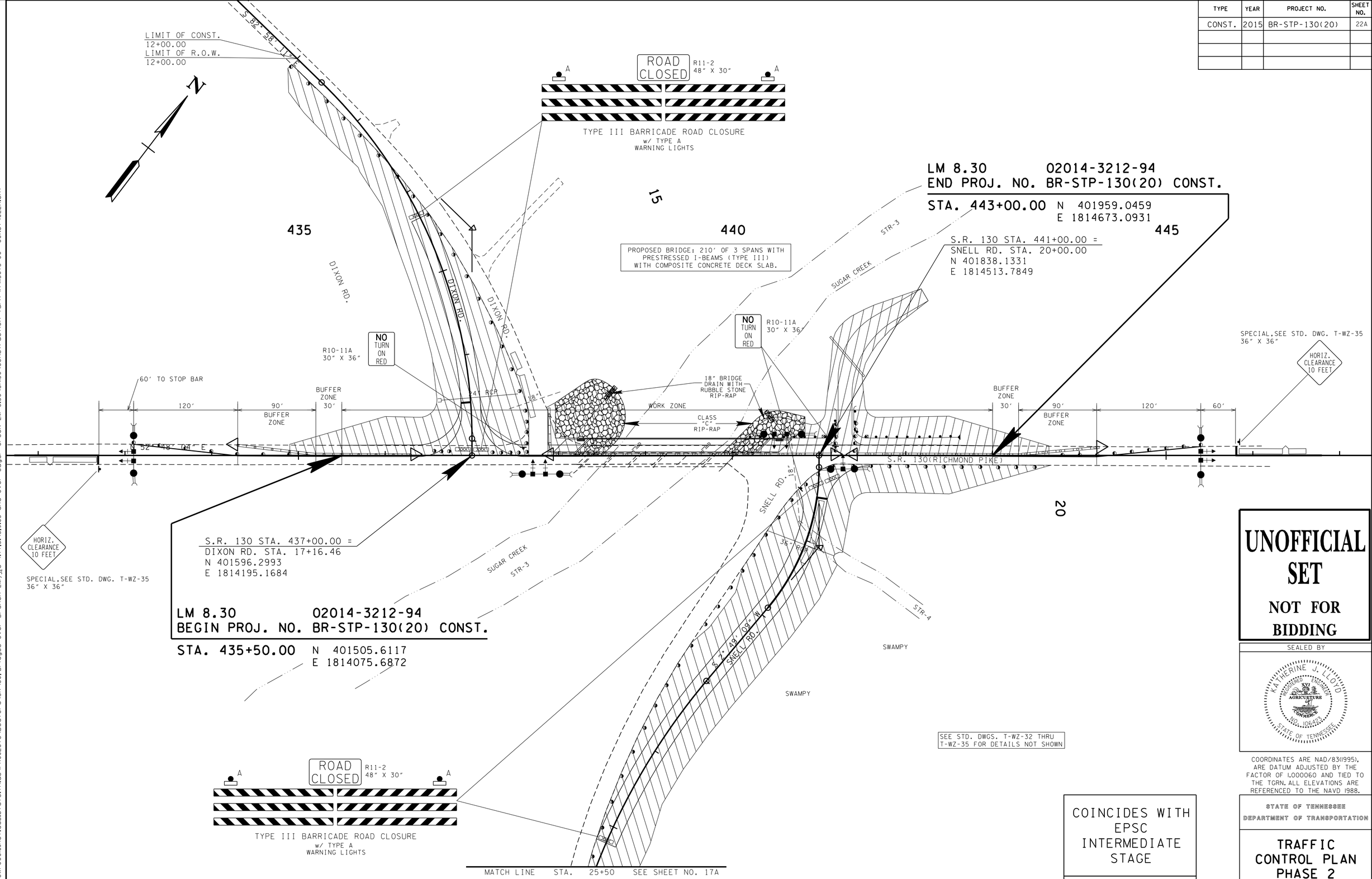
TRAFFIC CONTROL PLAN PHASE 1

ADVANCE WARNING SIGNS

SCALE: 1"=500'

Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\022.sht
7-JUL-2015 (022)
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30, 4.77, 5.45, 9.83 and over Sugar Creek

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	22A



COINCIDES WITH EPSC INTERMEDIATE STAGE

L.M. 8.30

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

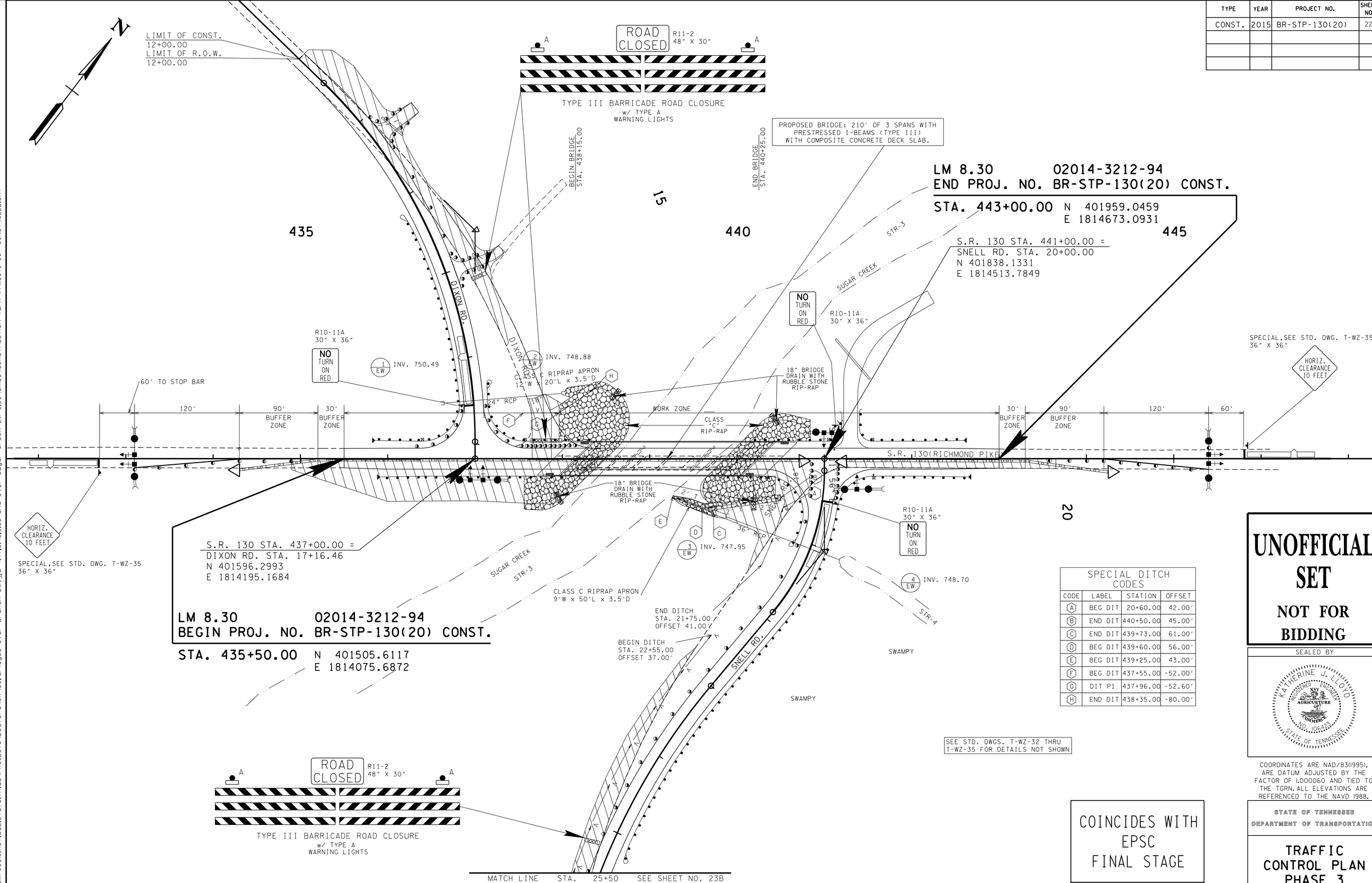
TRAFFIC CONTROL PLAN PHASE 2

STA. 433+00 TO STA. 446+00

SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I5673-00 -CONST\022A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	22B



SPECIAL DITCH CODES

CODE	LABEL	STATION	OFFSET
A	BEG DIT	20+60.00	42.00'
B	END DIT	440+50.00	45.00'
C	END DIT	439+73.00	61.00'
D	BEG DIT	439+60.00	56.00'
E	BEG DIT	439+25.00	43.00'
F	BEG DIT	437+55.00	-52.00'
G	DIT PI	437+96.00	-52.60'
H	END DIT	438+35.00	-80.00'

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

COINCIDES WITH EPSC FINAL STAGE

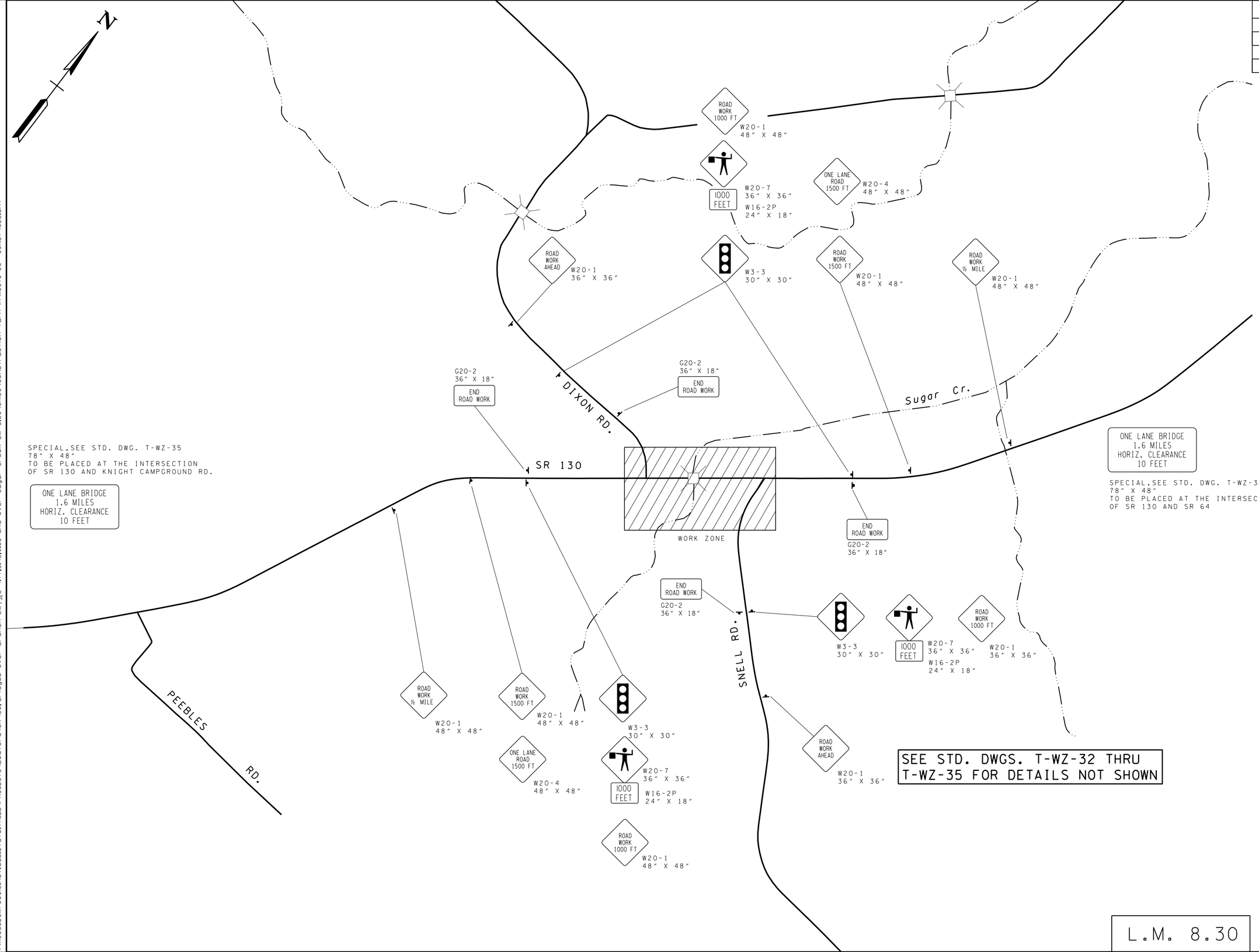
L.M. 8.30

TRAFFIC CONTROL PLAN PHASE 3

STA. 433+00 TO STA. 446+00
SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\I15673-00 -CONSTY022B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	23



L.M. 8.30

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

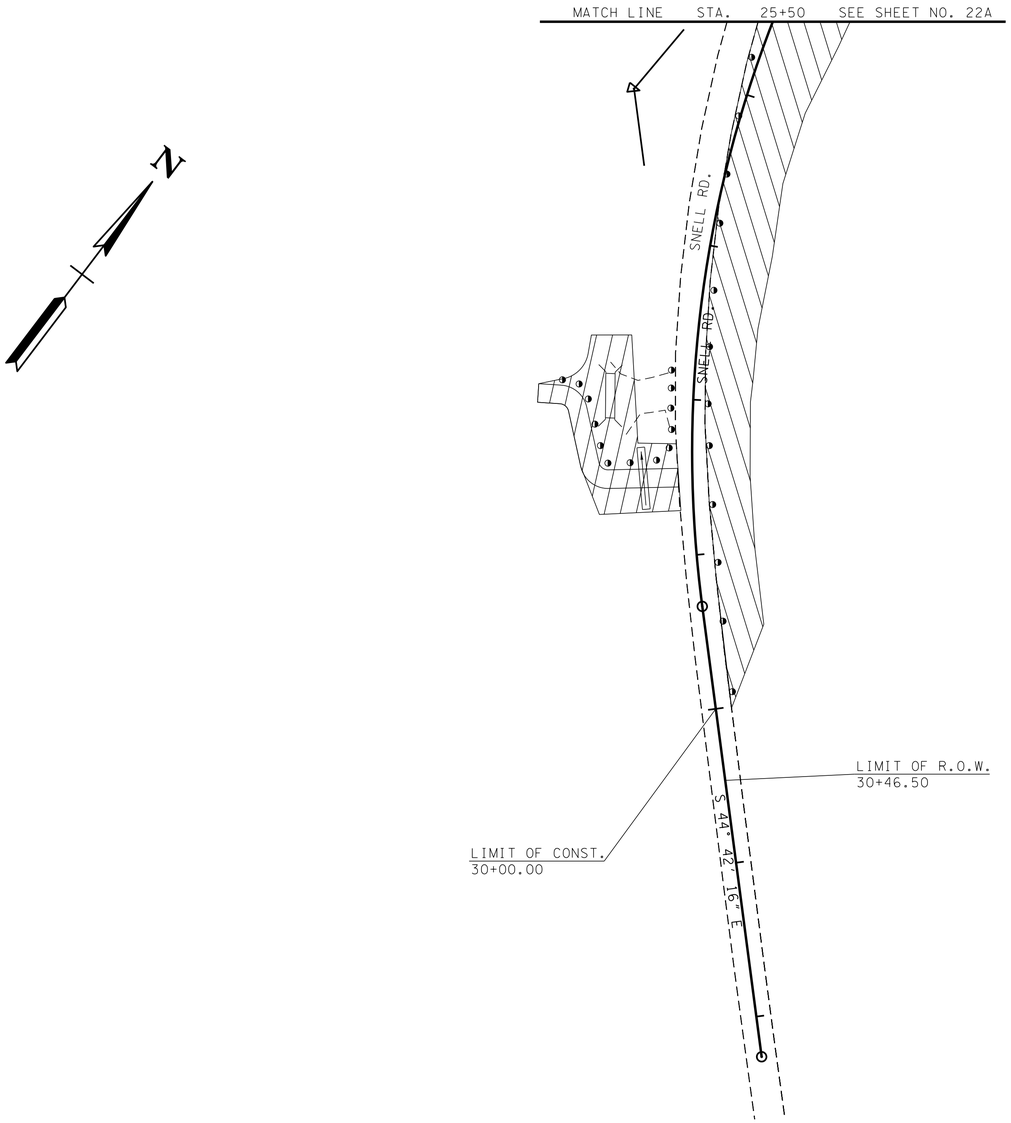
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OWNERS
NO. 106422
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE 1
ADVANCE WARNING SIGNS
SCALE: 1"=500'

\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\023.sht
7-JUL-2015 10:21

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	23A



SEE STD. DWGS. T-WZ-32 THRU T-WZ-35 FOR DETAILS NOT SHOWN

COINCIDES WITH EPSC INTERMEDIATE STAGE

SNELL RD.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

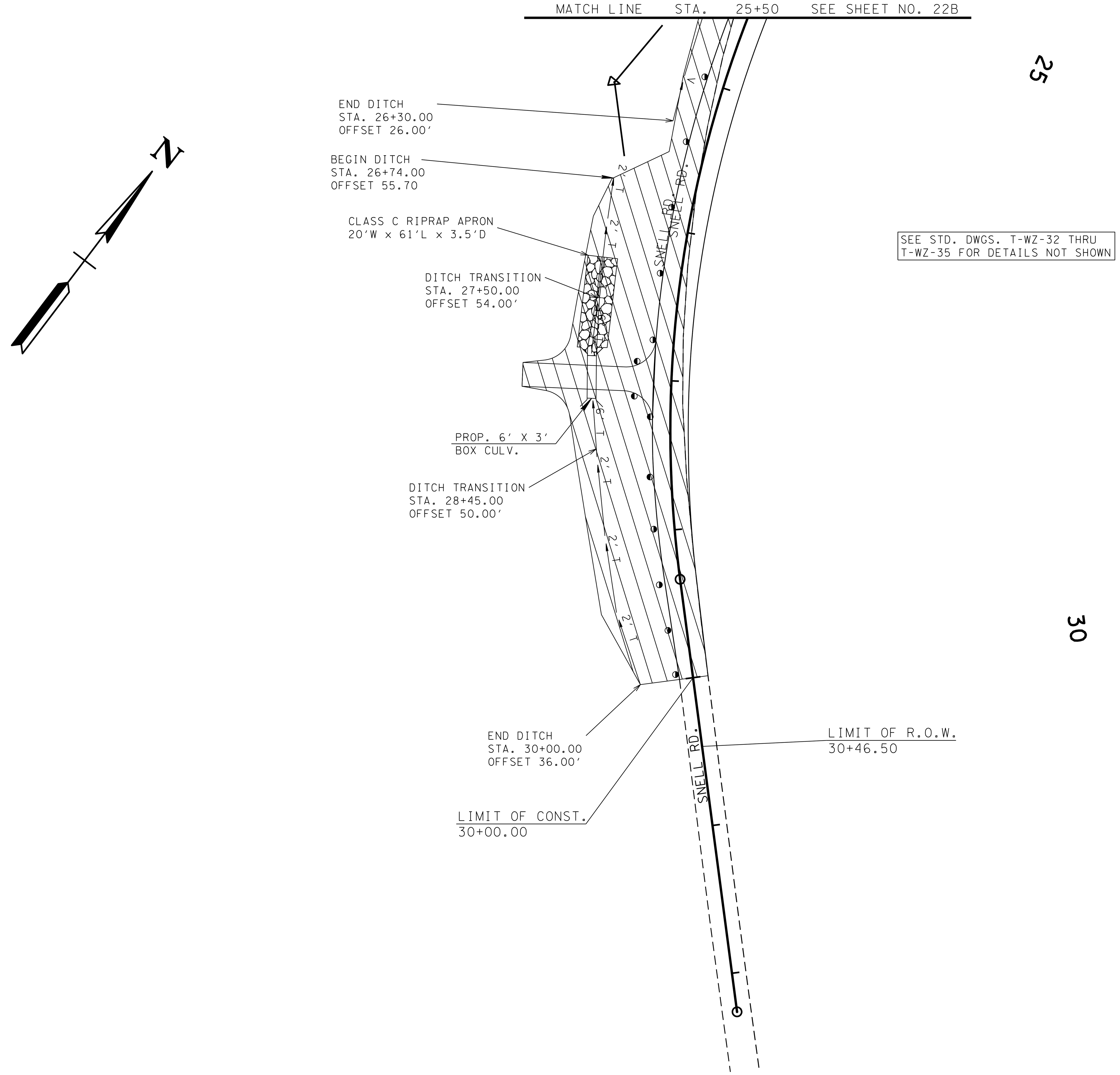
TRAFFIC CONTROL PLAN PHASE 2

STA. 25+50 TO STA. 32+00

SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 9/2s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\023A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	23B



SEE STD. DWGS. T-WZ-32 THRU
T-WZ-35 FOR DETAILS NOT SHOWN

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

COINCIDES WITH
EPSC
FINAL STAGE

SNELL RD.

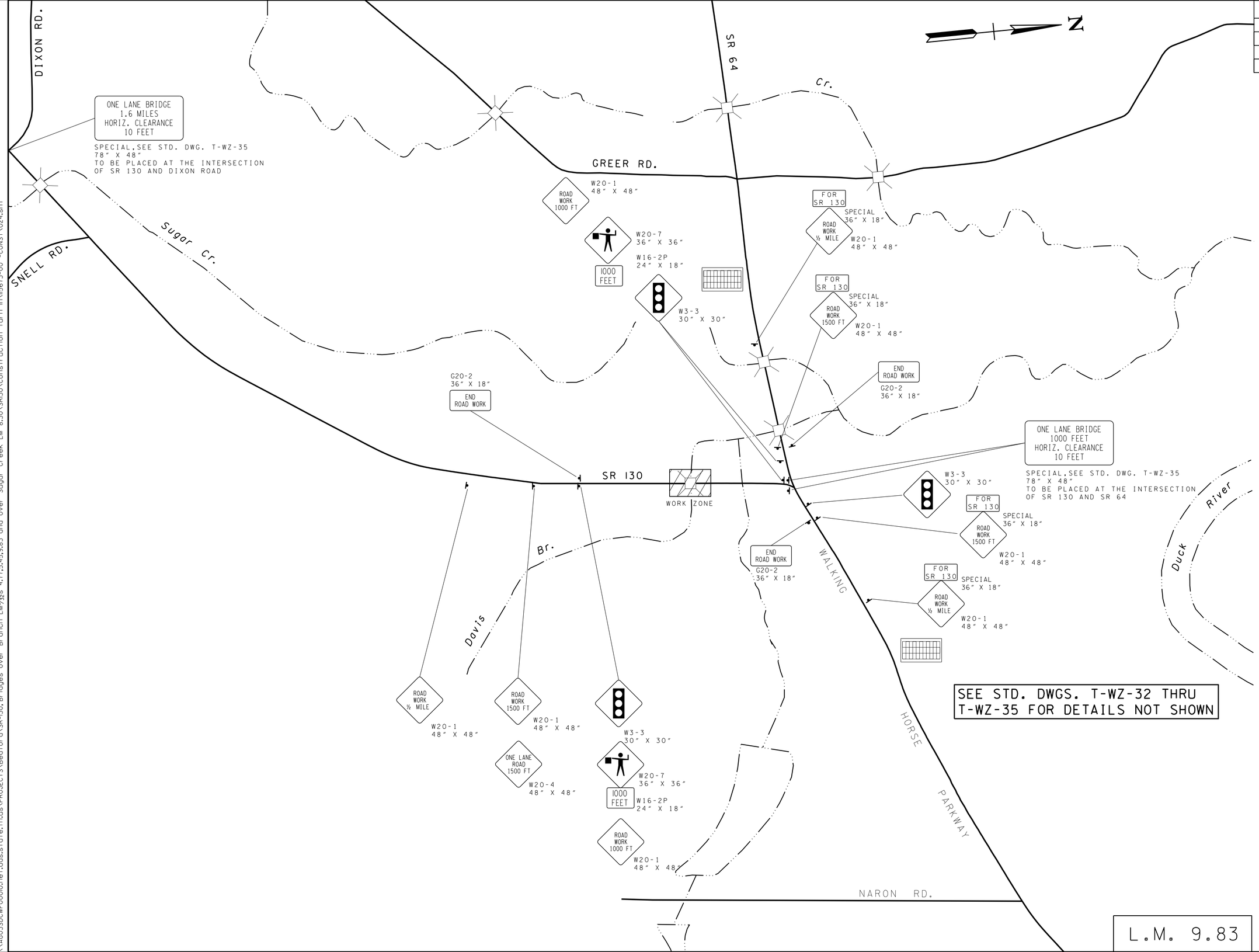
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLAN
PHASE 3

STA. 25+50 TO STA. 32+00
SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\115673-00 -CONST\023B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	24



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

ADVANCE WARNING SIGNS

SCALE: 1"=500'

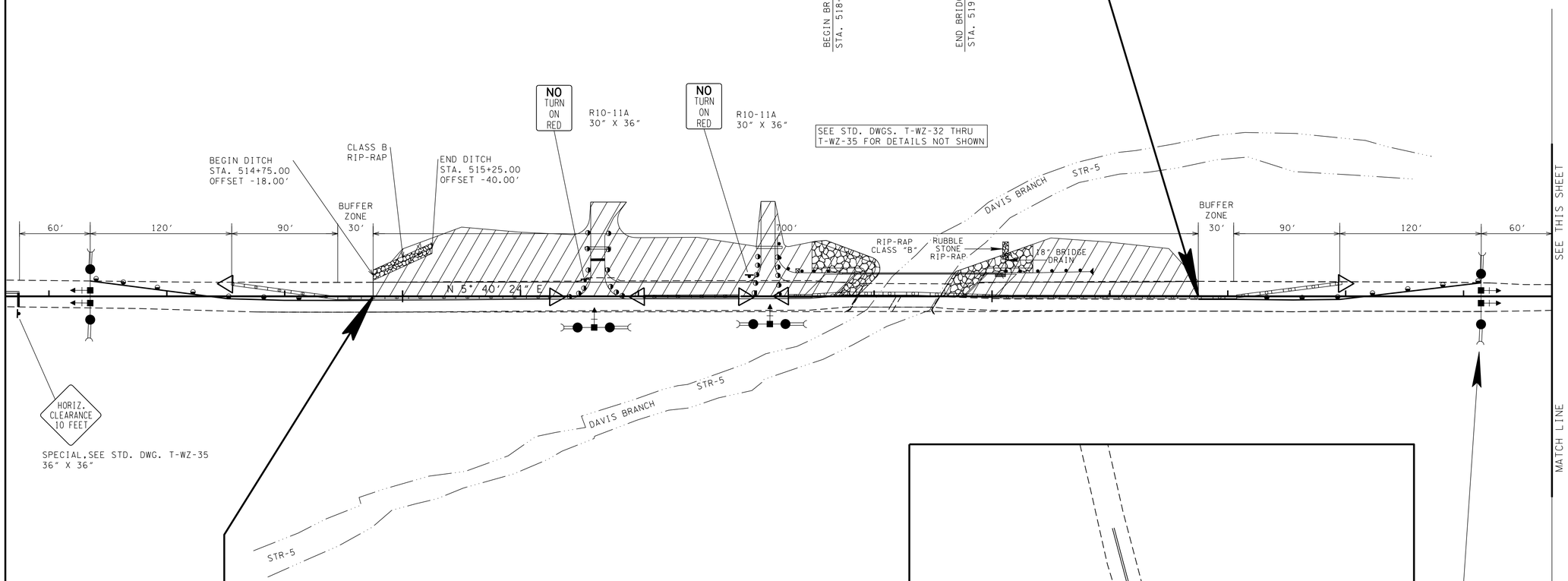
7-JUL-2015 10:21
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 9/328 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONSTY024.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	24A

PROPOSED BRIDGE: 112' OF 1 SPANS WITH PRESTRESSED BULB TEE BEAMS (63") WITH COMPOSITE CONCRETE DECK SLAB.

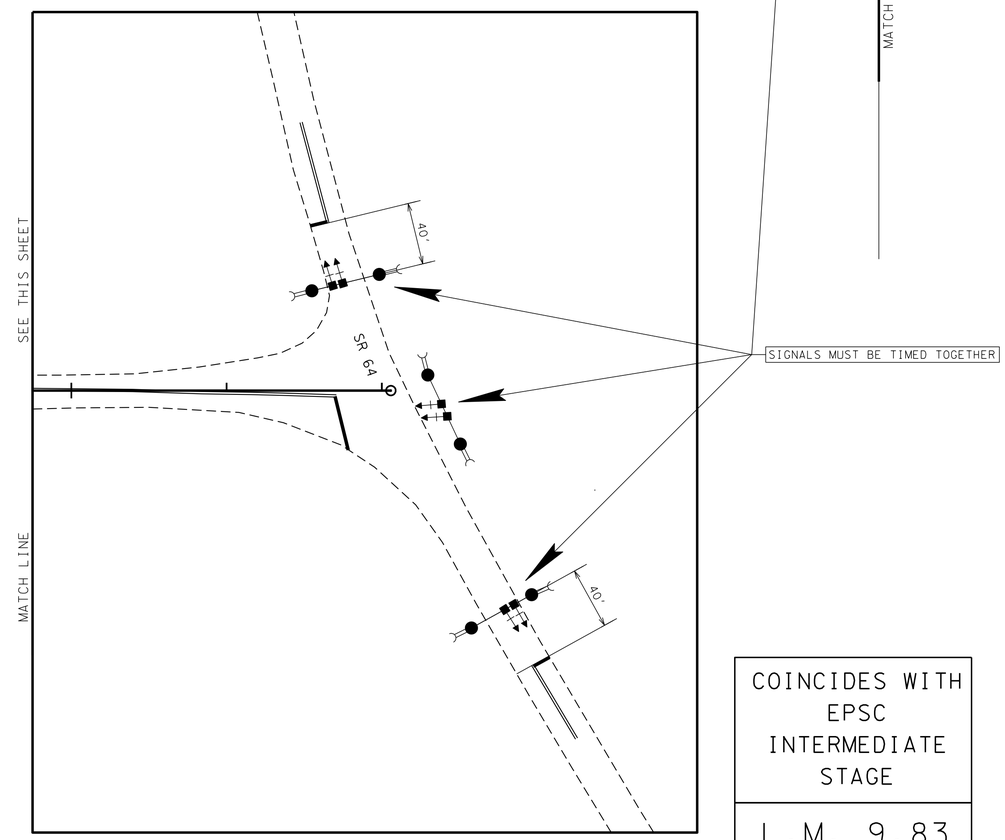
LM 9.83 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 521+75.00 N 408752.2704
E 1817916.3078



LM 9.83 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 514+75.00 N 408055.6993
E 1817847.1075



COINCIDES WITH EPSC INTERMEDIATE STAGE

L.M. 9.83

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 513+00 TO STA. 525+00
SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0001Q.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/325 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\I15673-00 -CONSTY024A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	24B

PROPOSED BRIDGE: 112' OF 1 SPANS WITH PRESTRESSED BULB TEE BEAMS (63") WITH COMPOSITE CONCRETE DECK SLAB.

LM 9.83 02014-3212-94
END PROJ. NO. BR-STP-130(20) CONST.

STA. 521+75.00 N 408752.2704
E 1817916.3078

515

BEGIN BRIDGE
STA. 518+65.00

END BRIDGE
STA. 519+77.00

520

SEE STD. DWGS. T-WZ-32 THRU T-WZ-35 FOR DETAILS NOT SHOWN

NO TURN ON RED — R10-11A 30" X 36"

NO TURN ON RED — R10-11A 30" X 36"

60' 120' 90' 30' 700' 30' 90' 120' 60'

DAVIS BRANCH STR-5

RUBBLE STONE RIP-RAP

S.R. 130(RICHMOND PIKE)

RIP-RAP CLASS "B"

RIP-RAP CLASS "B"

RUBBLE STONE RIP-RAP

DAVIS BRANCH STR-5

STR-5

HORIZ. CLEARANCE 10 FEET

SPECIAL, SEE STD. DWG. T-WZ-35
36" X 36"

SEE THIS SHEET

MATCH LINE

LM 9.83 02014-3212-94
BEGIN PROJ. NO. BR-STP-130(20) CONST.

STA. 514+75.00 N 408055.6993
E 1817847.1075

SEE THIS SHEET

MATCH LINE

40'

SR 64

40'

SIGNALS MUST BE TIMED TOGETHER

COINCIDES WITH EPSC FINAL STAGE

L.M. 9.83

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000060 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

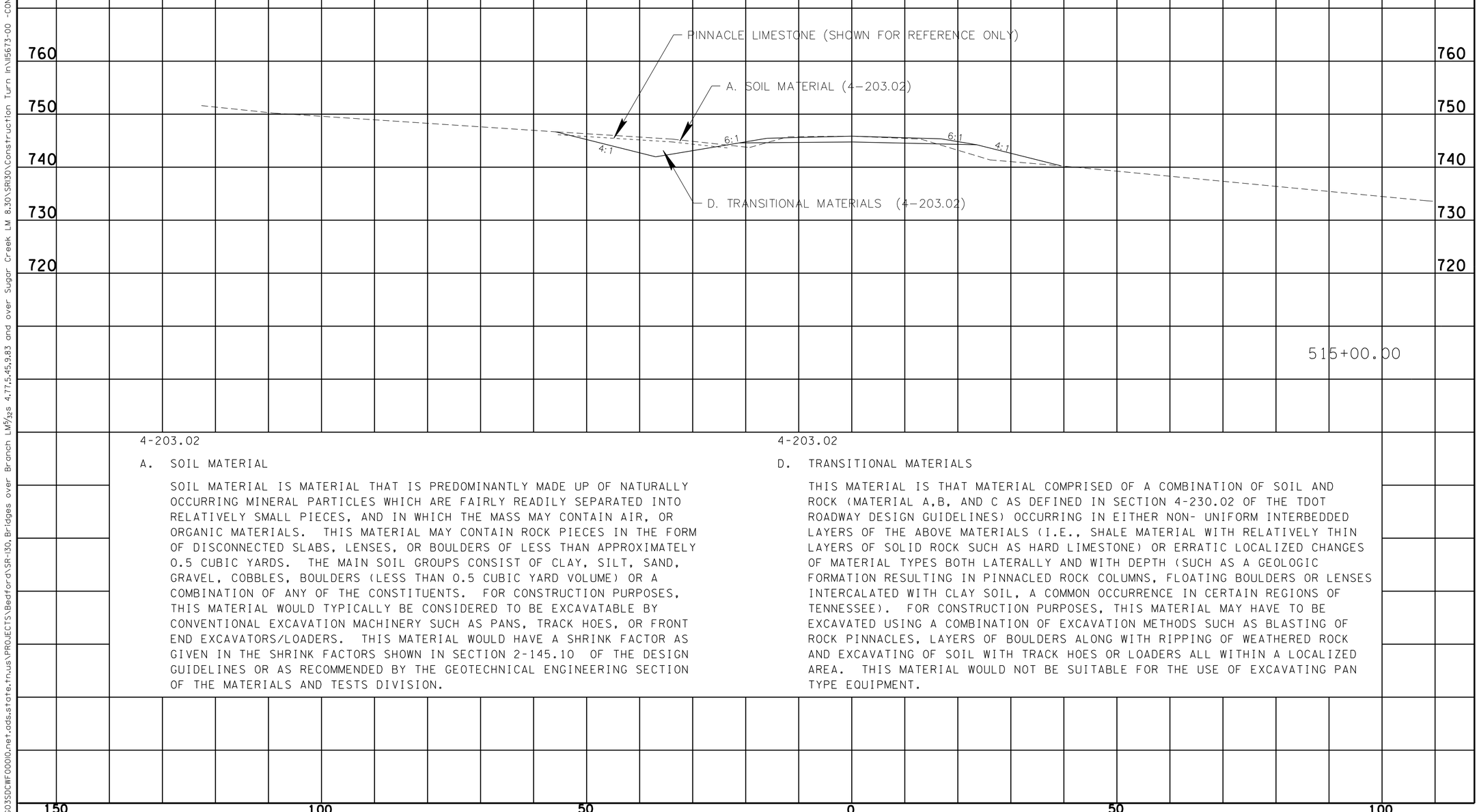
TRAFFIC CONTROL PLAN PHASE 3

STA. 513+00 TO STA. 525+00
SCALE: 1"= 50'

7-JUL-2015 10:21
\\AG03SDCWF0010\net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/325 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONSTY024B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	25

REPRESENTATIVE OF STATION 515+00 TO STATION 517+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 WOULD HAVE A SHRINK FACTOR AS GIVEN IN THE SHRINK FACTORS SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

4-203.02

D. TRANSITIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIAL A,B, AND C AS DEFINED IN SECTION 4-230.02 OF THE TDOT ROADWAY DESIGN GUIDELINES) OCCURRING IN EITHER NON- UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH LATERALLY AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OF BOULDERS ALONG WITH RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.

UNOFFICIAL SET

NOT FOR BIDDING

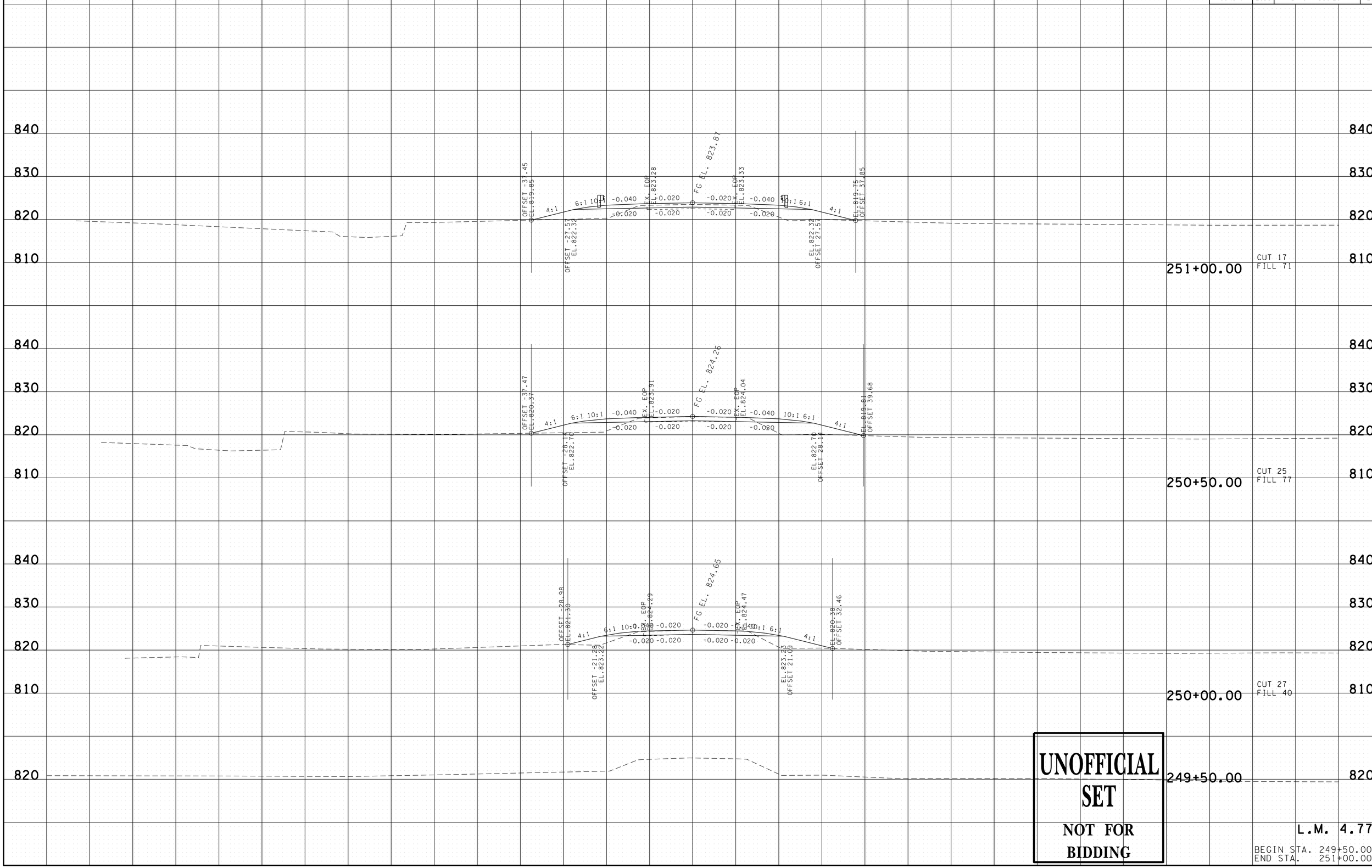
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 130
BEDFORD COUNTY

7-JUL-2015 10:21
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130,Bridges over Branch LM 8.30\SR130\Construction Turn In\115673-00 -CONST\025 Soils.sht
Sugar Creek LM 4.77,5.45,9.83 and over

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	26



UNOFFICIAL SET

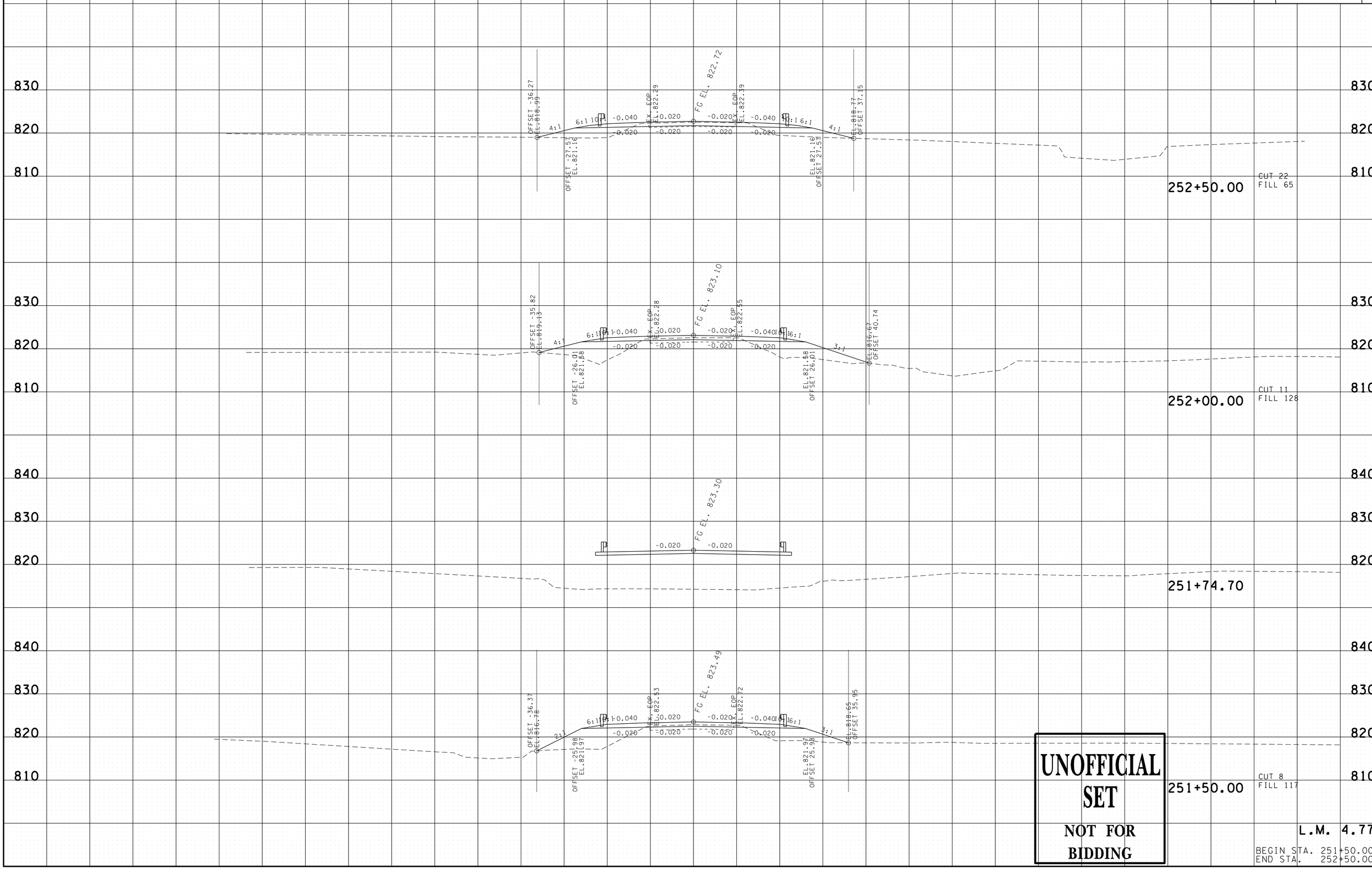
NOT FOR BIDDING

L.M. 4.77

BEGIN STA. 249+50.00
END STA. 251+00.00

17-JUL-2015 10:21
\\AG03SDCWF0001Q.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\026 - 028 cXSections SR 130 477.sht
and over Sugar Creek LM 4.77,5.45,9.83 and over

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	27



UNOFFICIAL SET

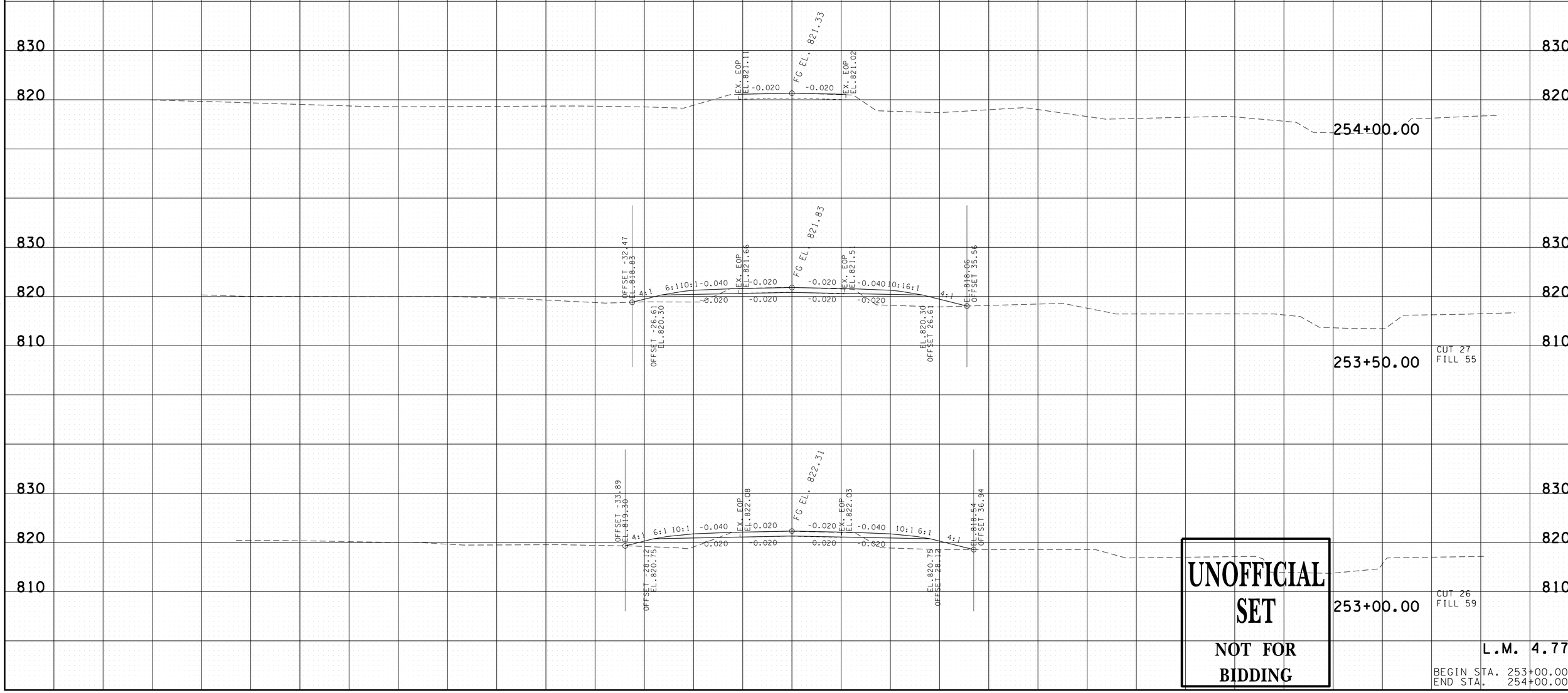
NOT FOR BIDDING

L.M. 4.77

BEGIN STA. 251+50.00
END STA. 252+50.00

17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\026 - 028 cXSections SR 130 477.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	28



UNOFFICIAL SET

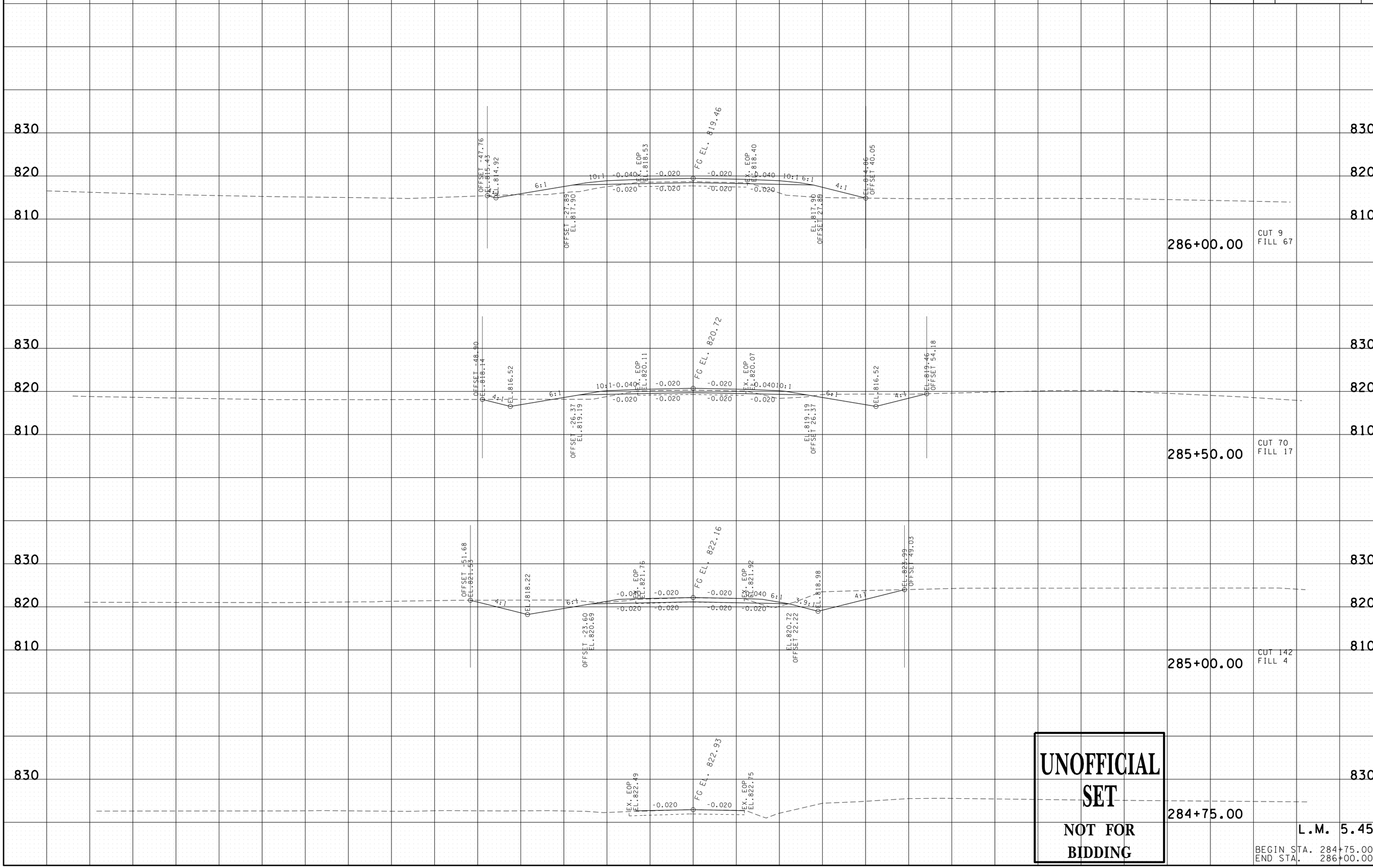
NOT FOR BIDDING

L.M. 4.77

BEGIN STA. 253+00.00
END STA. 254+00.00

17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\026 - 028 cXSections SR 130 477.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	29



17-JUL-2015 10:21
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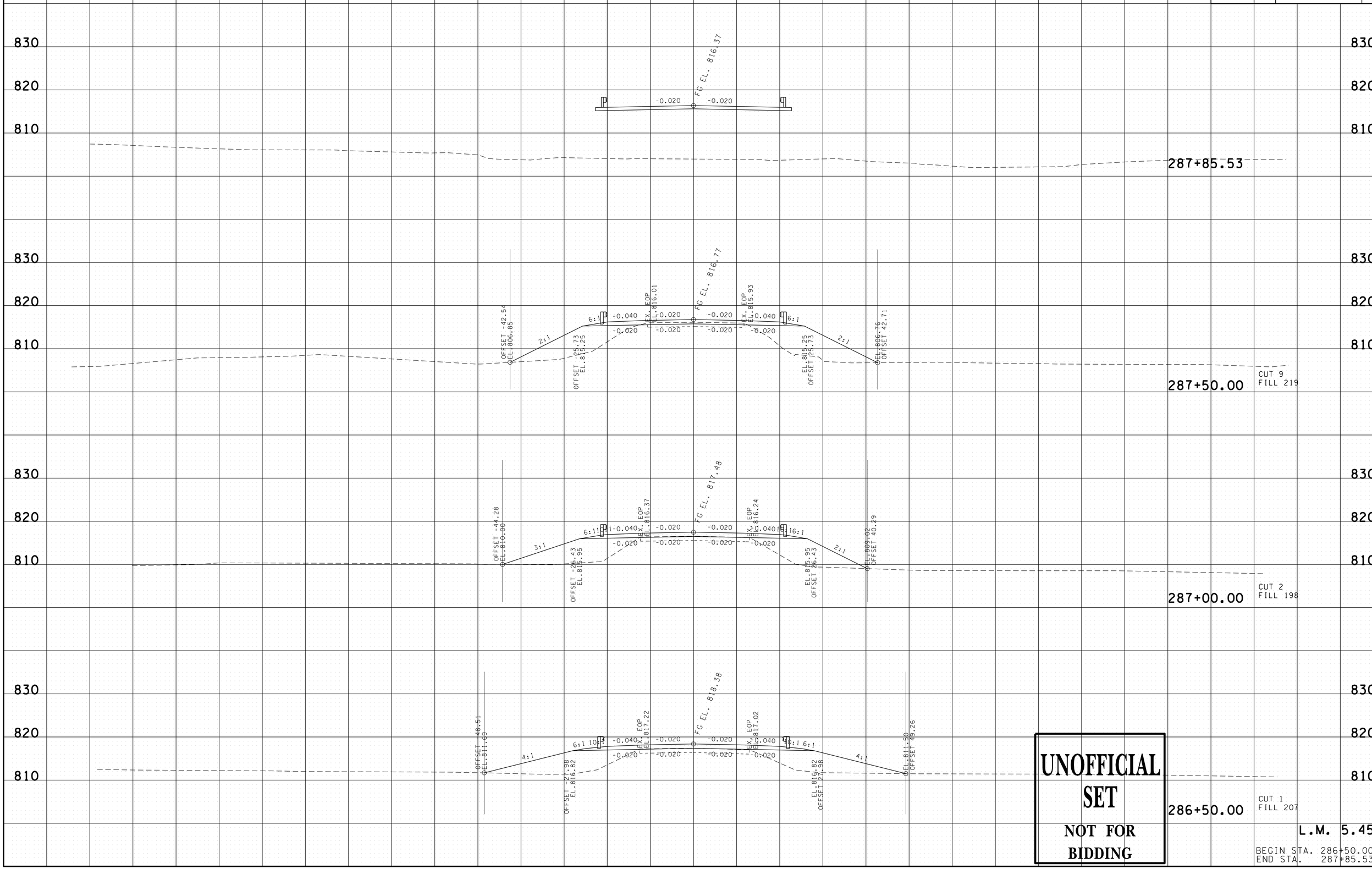
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	30



UNOFFICIAL SET

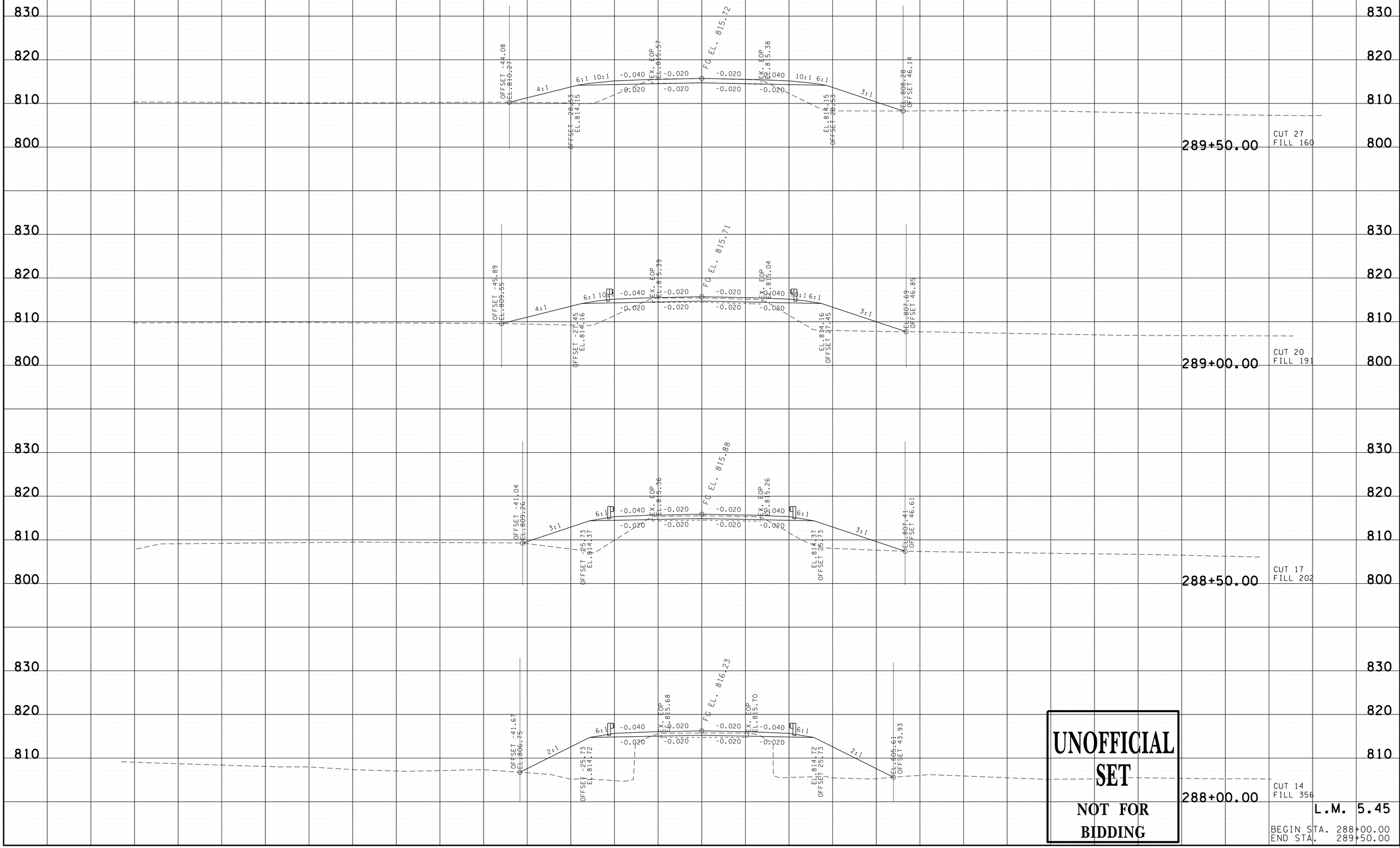
NOT FOR BIDDING

L.M. 5.45

BEGIN STA. 286+50.00
END STA. 287+85.53

17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\029 - 032 cXSections SR 130 545.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	31



UNOFFICIAL SET

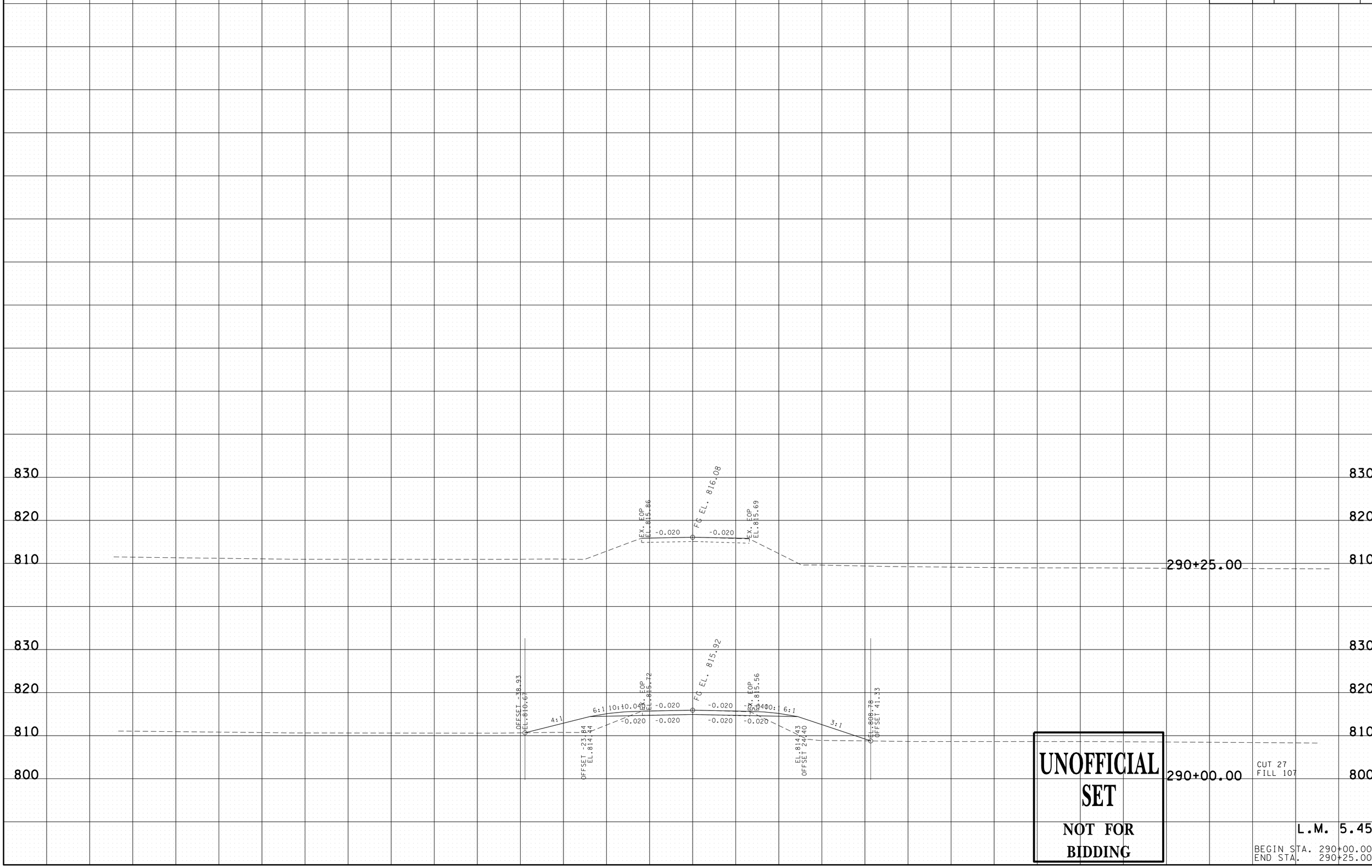
NOT FOR BIDDING

L.M. 5.45

BEGIN STA. 288+00.00
END STA. 289+50.00

17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM5/32S 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\029 - 032 cXSections SR 130 545.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	32



UNOFFICIAL SET

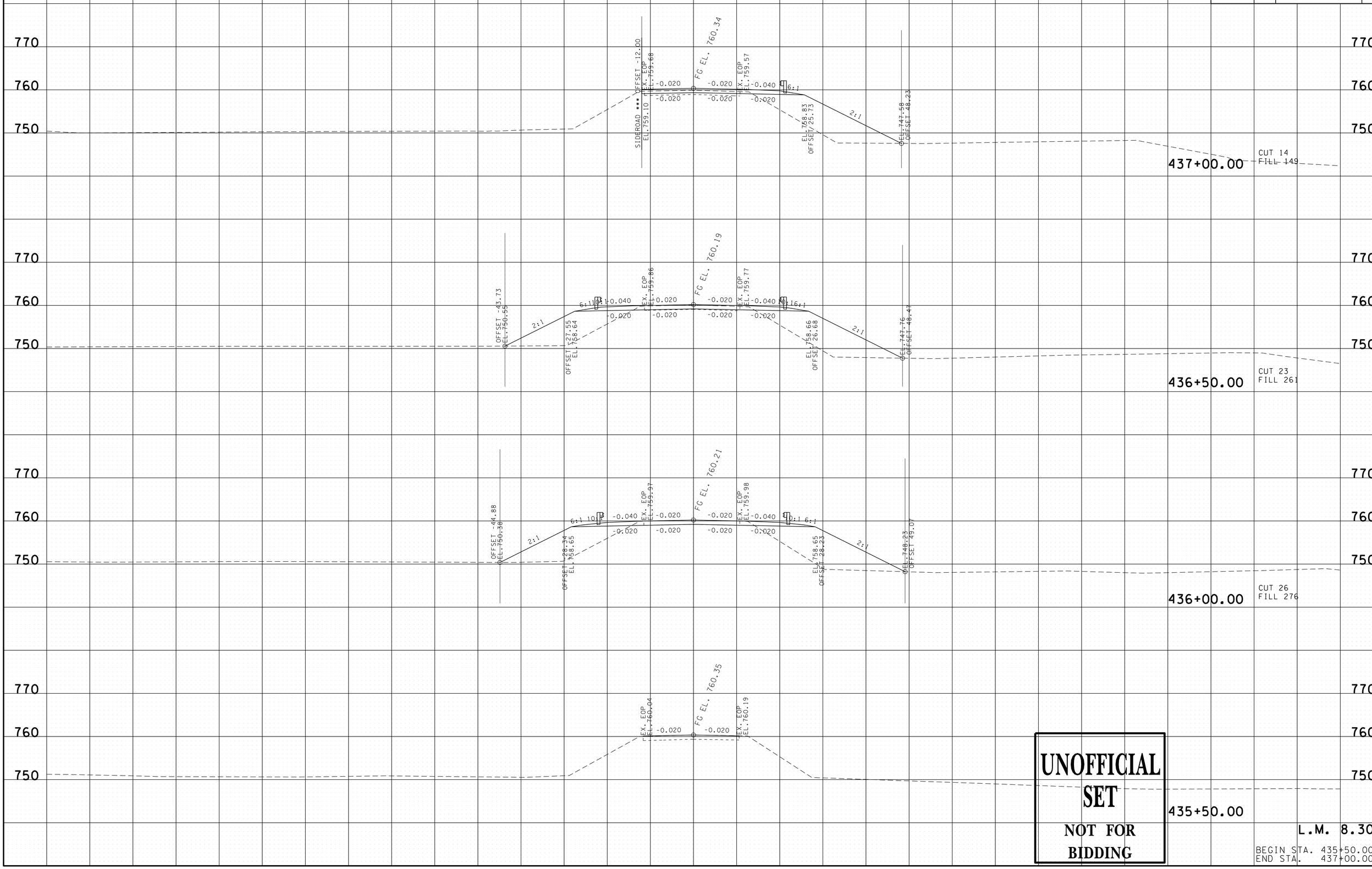
NOT FOR BIDDING

L.M. 5.45

BEGIN STA. 290+00.00
END STA. 290+25.00

17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\029 - 032 cXSections SR 130 545.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	33



UNOFFICIAL SET

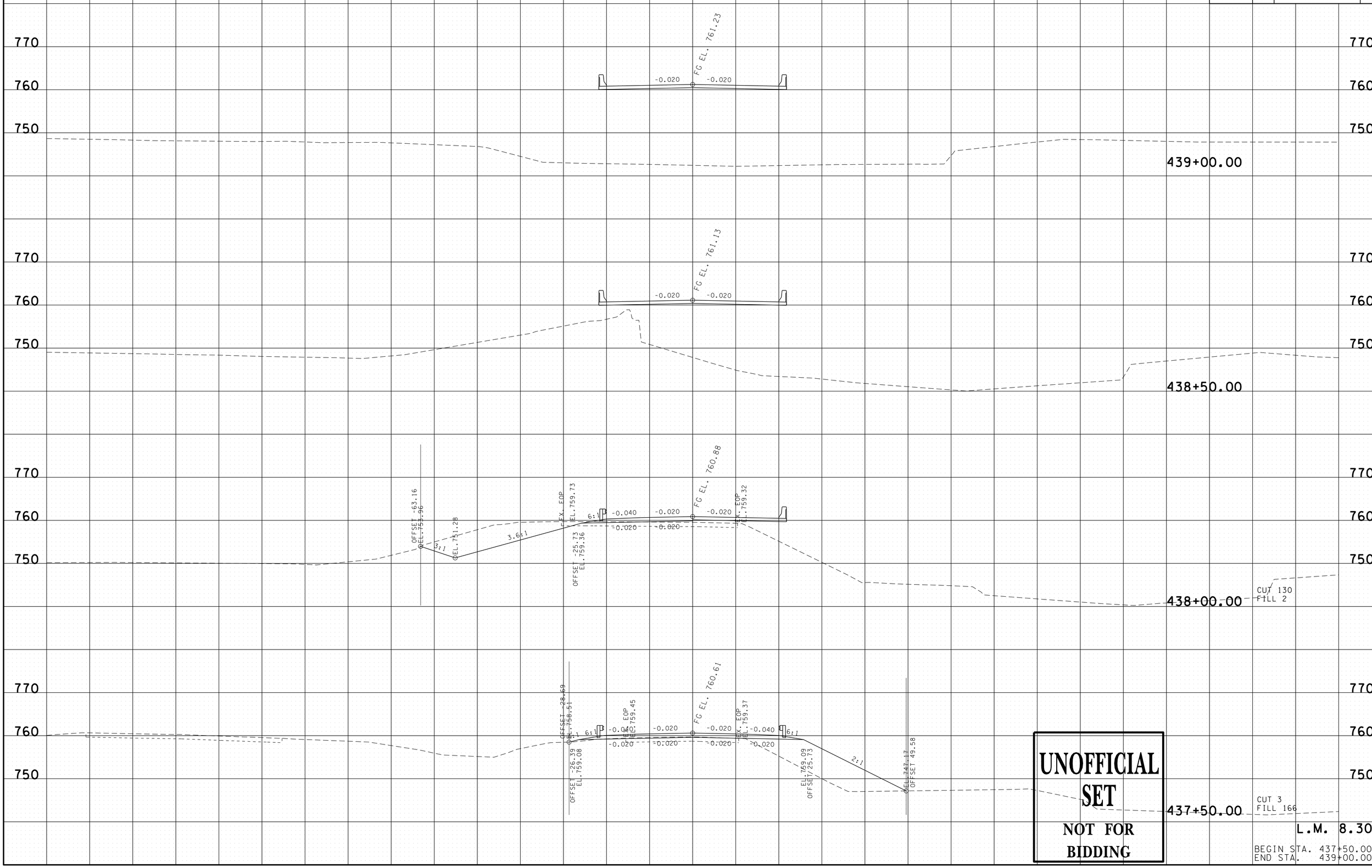
NOT FOR BIDDING

L.M. 8.30

BEGIN STA. 435+50.00
END STA. 437+00.00

17-JUL-2015 10:21
\\AG03SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\033 - 036 cXSections SR 130 830.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	34



UNOFFICIAL SET

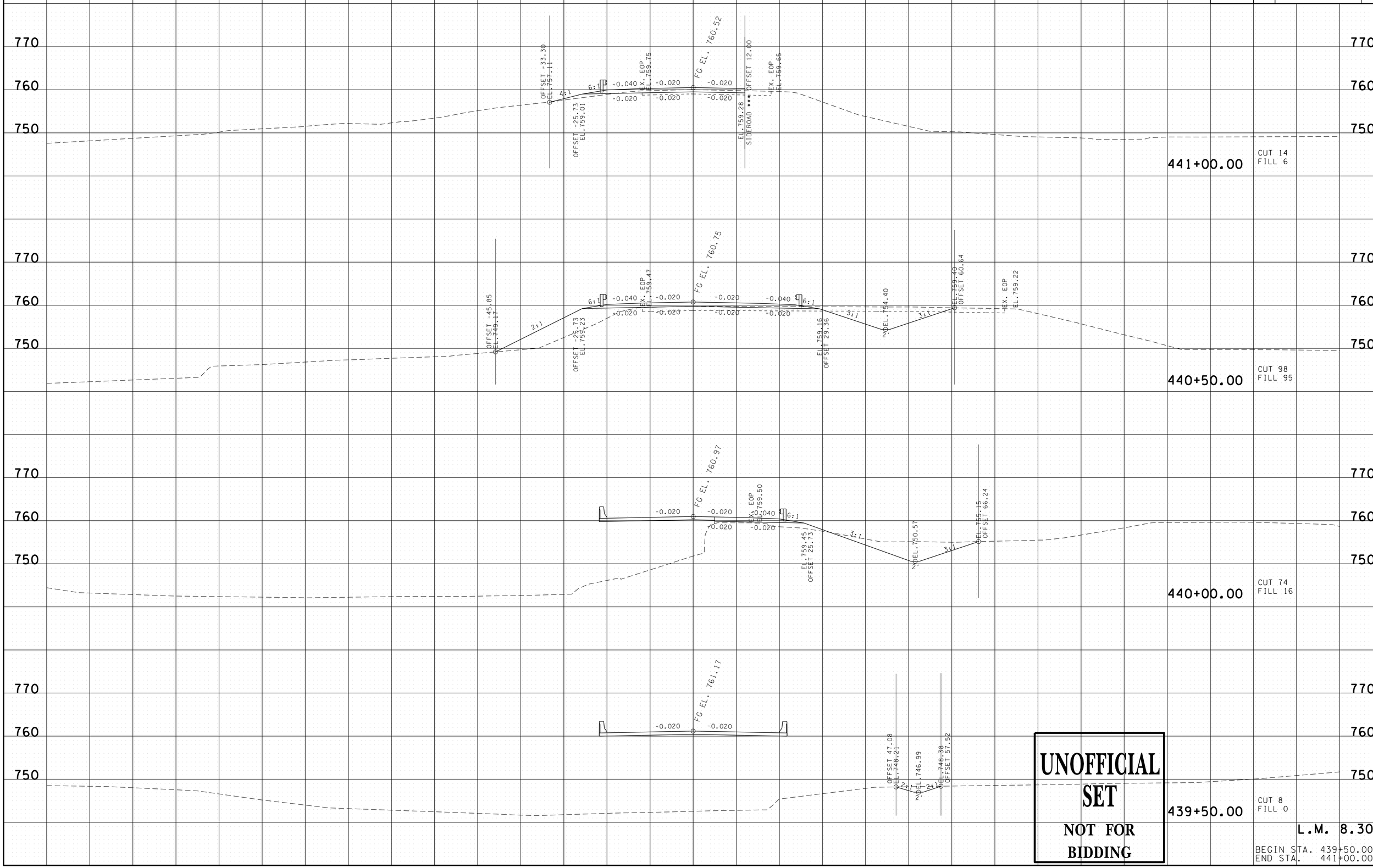
NOT FOR BIDDING

L.M. 8.30

BEGIN STA. 437+50.00
END STA. 439+00.00

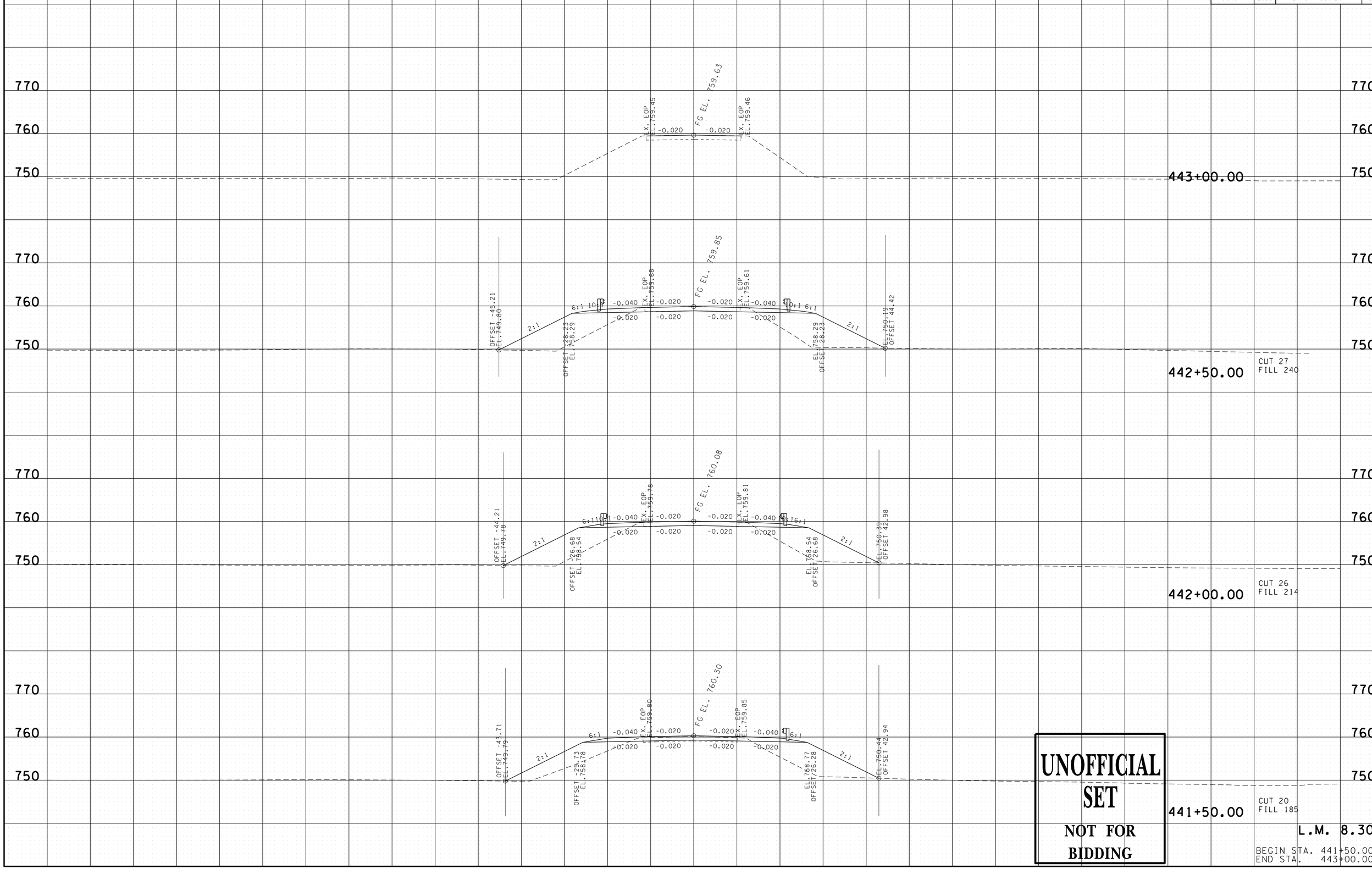
17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32 & 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\033 - 036 cXSections SR 130 830.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	35



17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32 & 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\033 - 036 cXSections SR 130 830.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	36



UNOFFICIAL SET

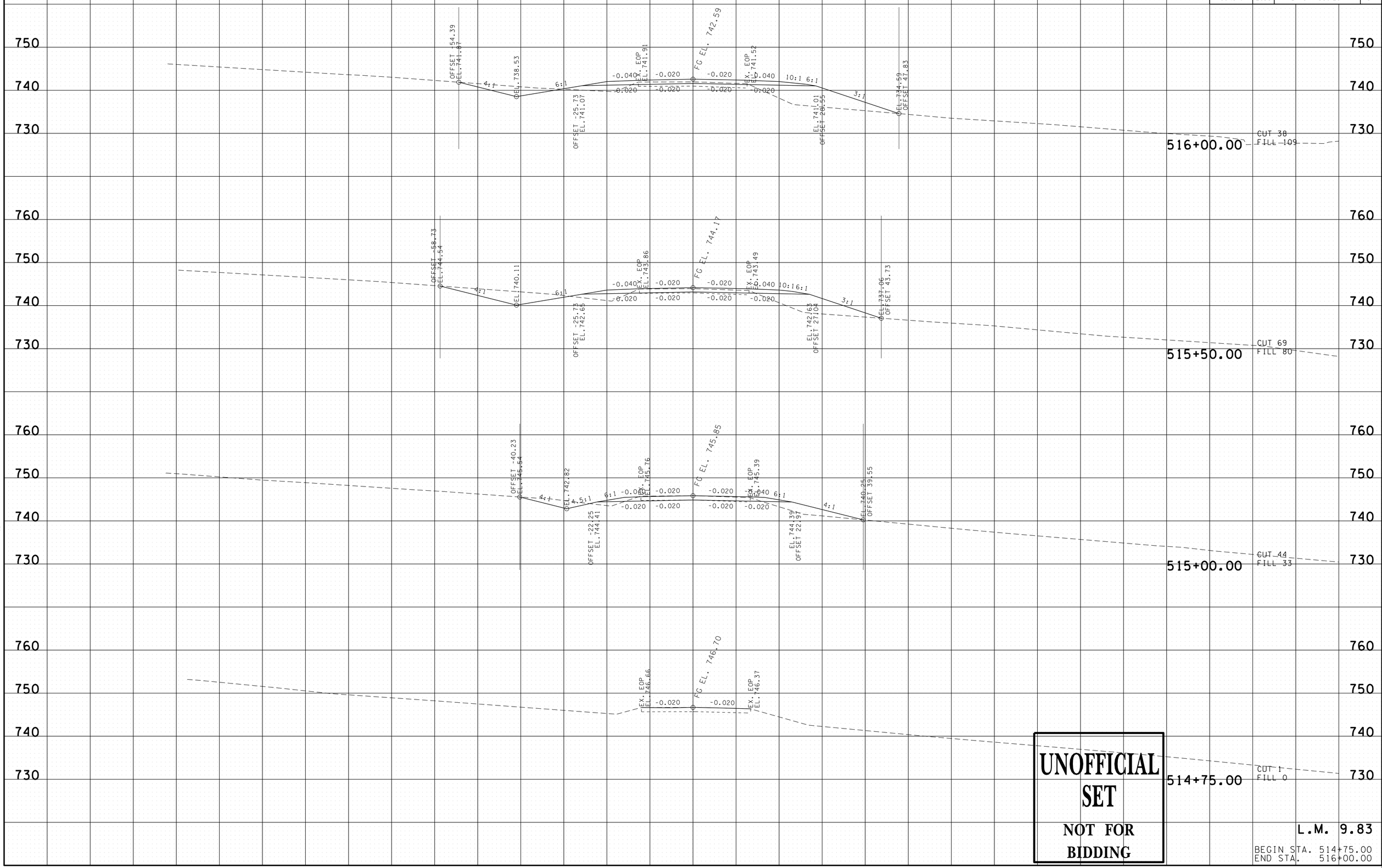
NOT FOR BIDDING

L.M. 8.30

BEGIN STA. 441+50.00
END STA. 443+00.00

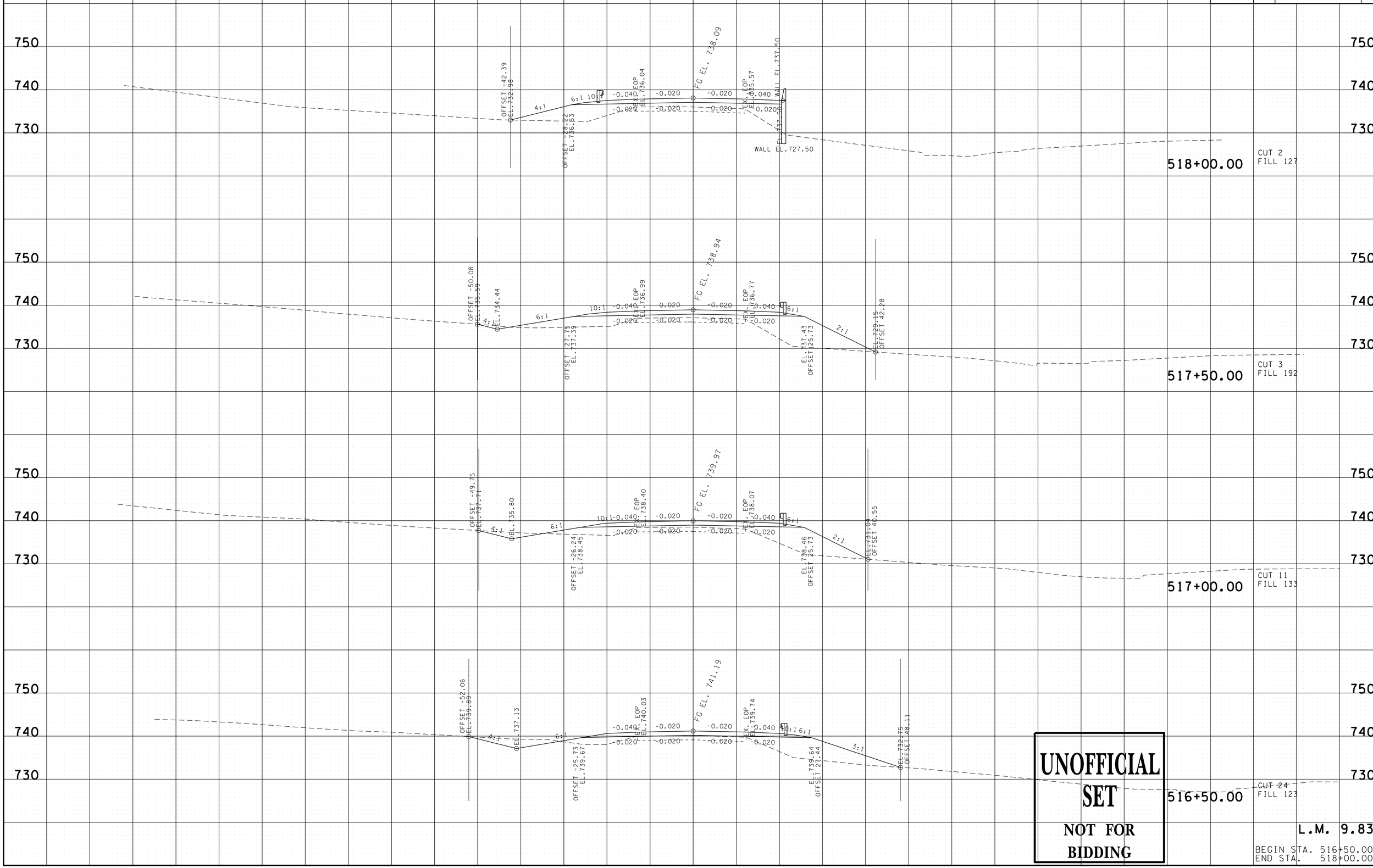
17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\033 - 036 cXSections SR 130 830.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	37



17-JUL-2015 10:21
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130_Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\037 - 040 cXSections SR 130 983.sht
Sugar Creek LM 8.30 4.77,5.45,9.83 and over

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	38



UNOFFICIAL SET

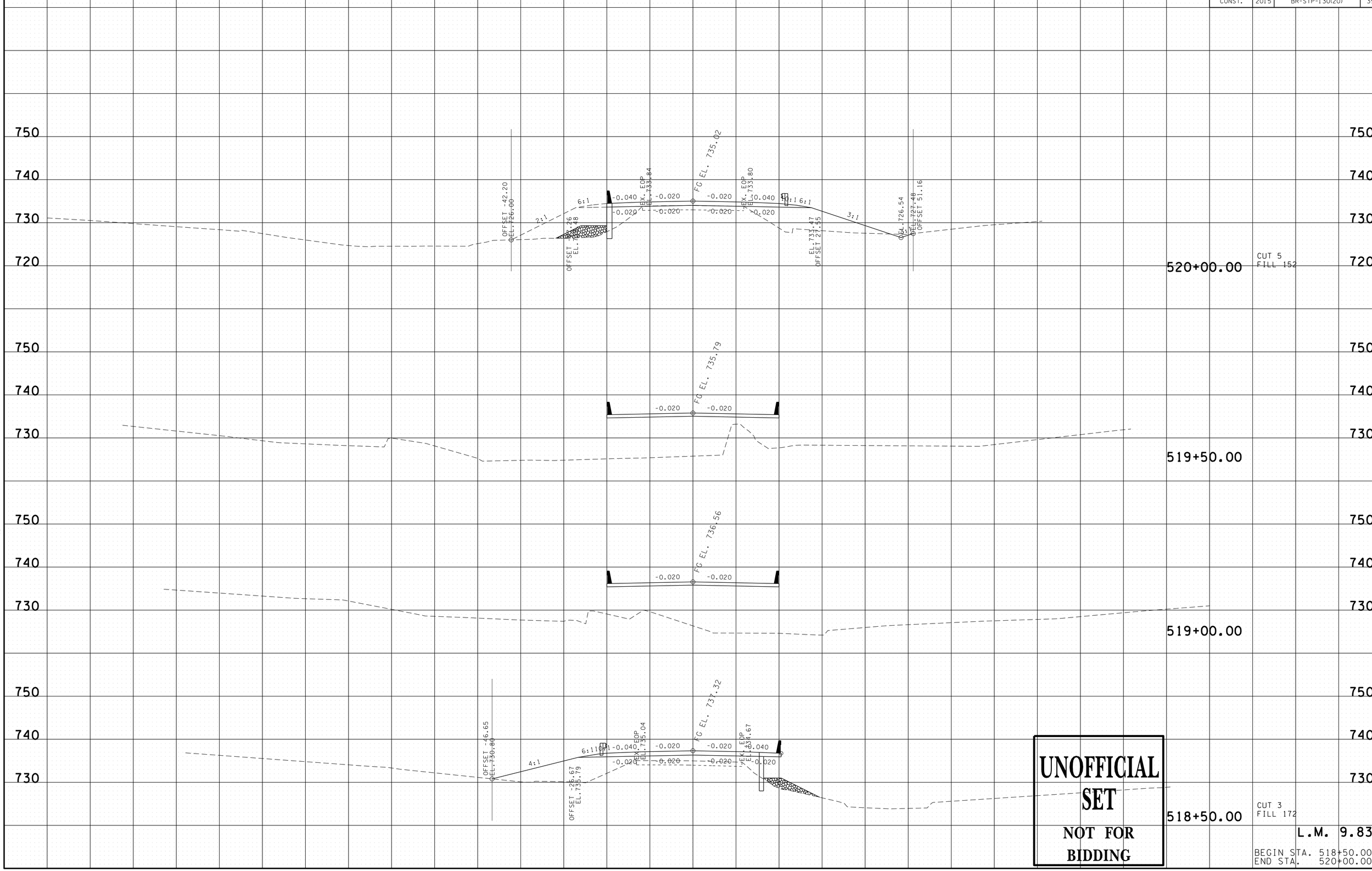
NOT FOR BIDDING

L.M. 9.83

BEGIN STA. 516+50.00
END STA. 518+00.00

17-JUL-2015 10:21
\\AGO3SDCWF0010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 5/32s 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\037 - 040 cXSections SR 130 983.sht

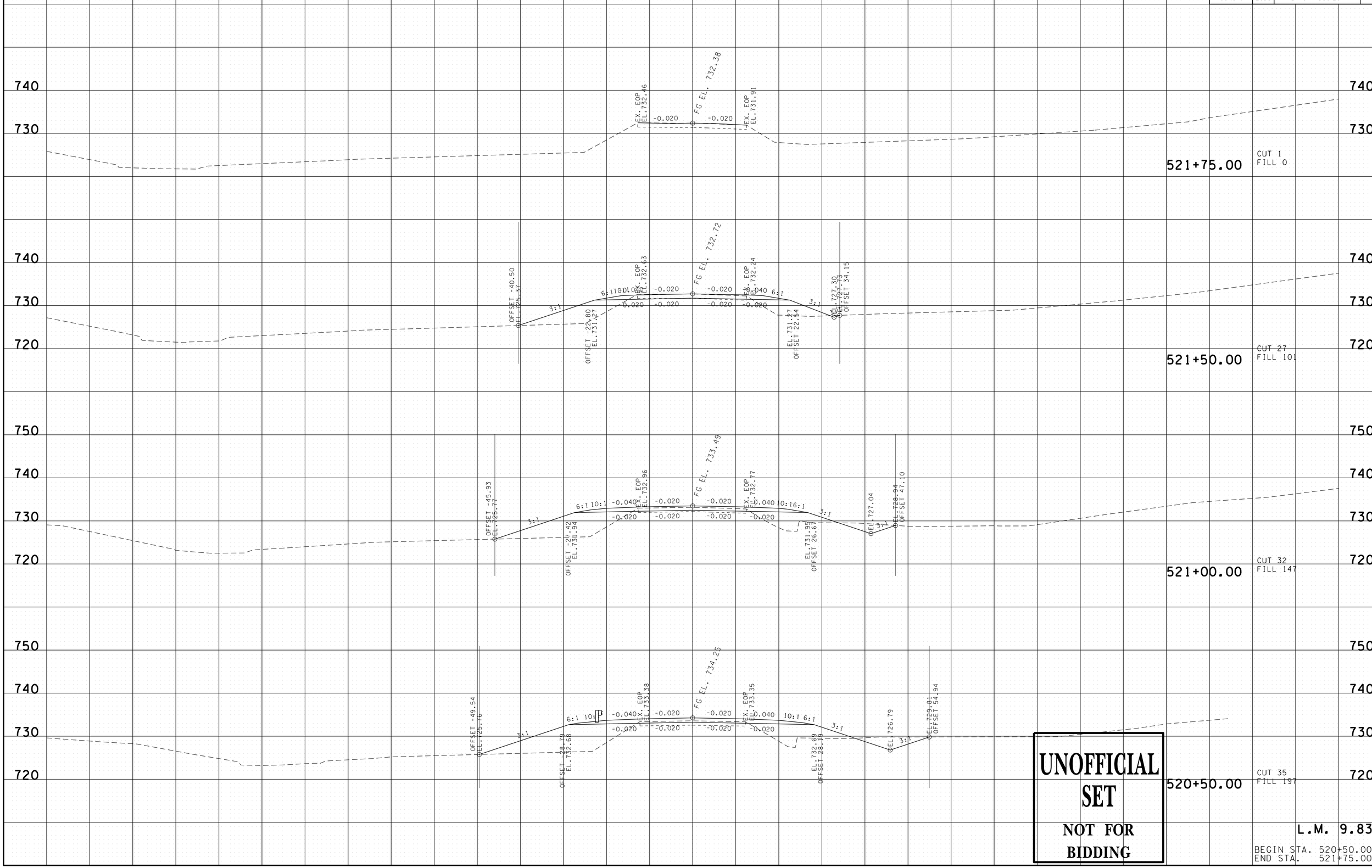
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	39



UNOFFICIAL SET
NOT FOR BIDDING

17-JUL-2015 10:21
\\AG03SDCWF00010.net.ads.state.tnus\PROJECTS\Bedford\SR-130_Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\037 - 040 cXSections SR 130 983.sht
Sugar Creek LM 8.30\SR130 4.77,5.45,9.83 and over Branch LM 8/32

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	40



UNOFFICIAL SET

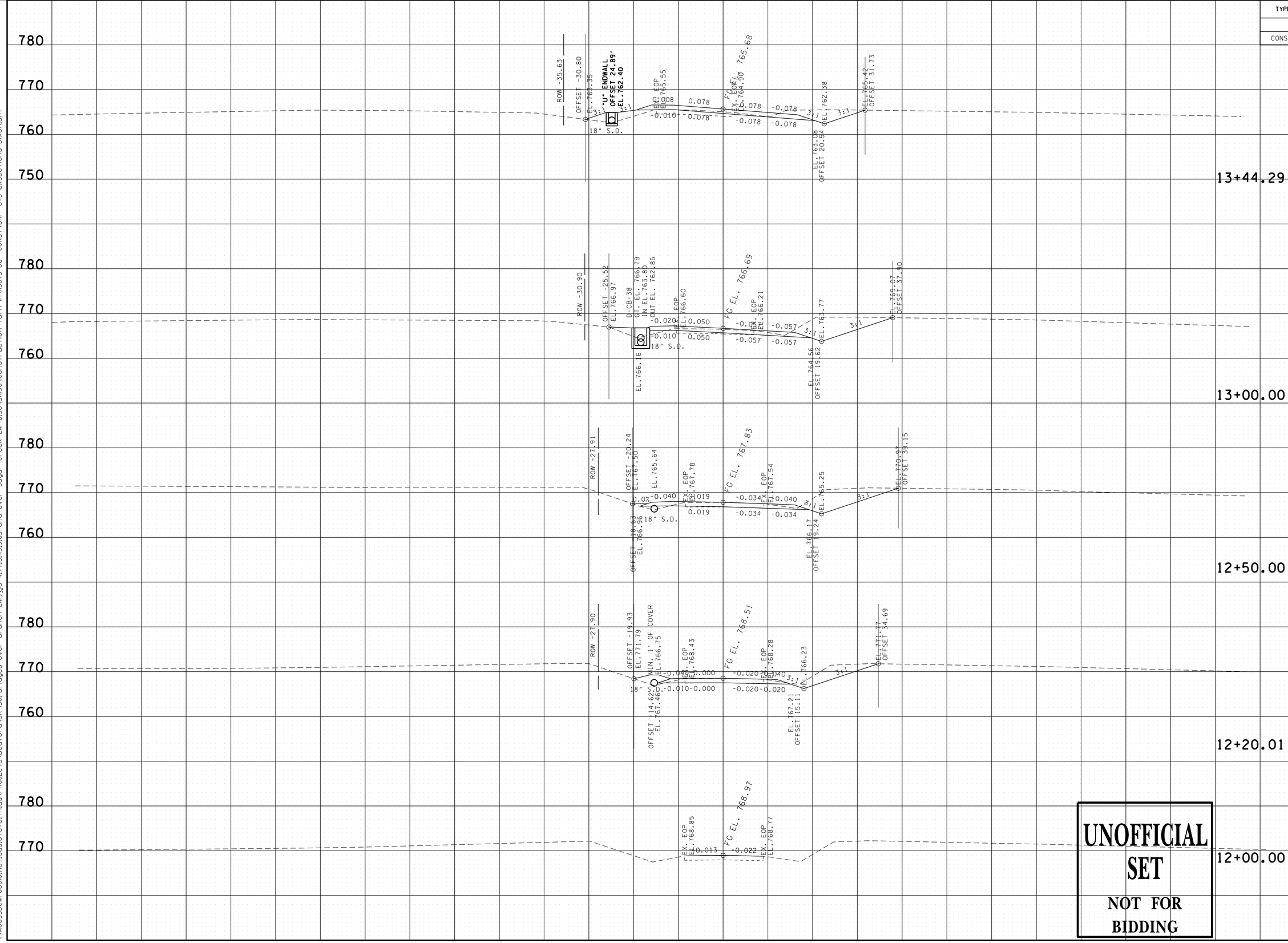
NOT FOR BIDDING

L.M. 9.83

BEGIN STA. 520+50.00
END STA. 521+75.00

17-JUL-2015 10:21
\\AG03SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 9/32 4.77,5.45,9.83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\037 - 040 cXSections SR 130 983.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	



UNOFFICIAL SET

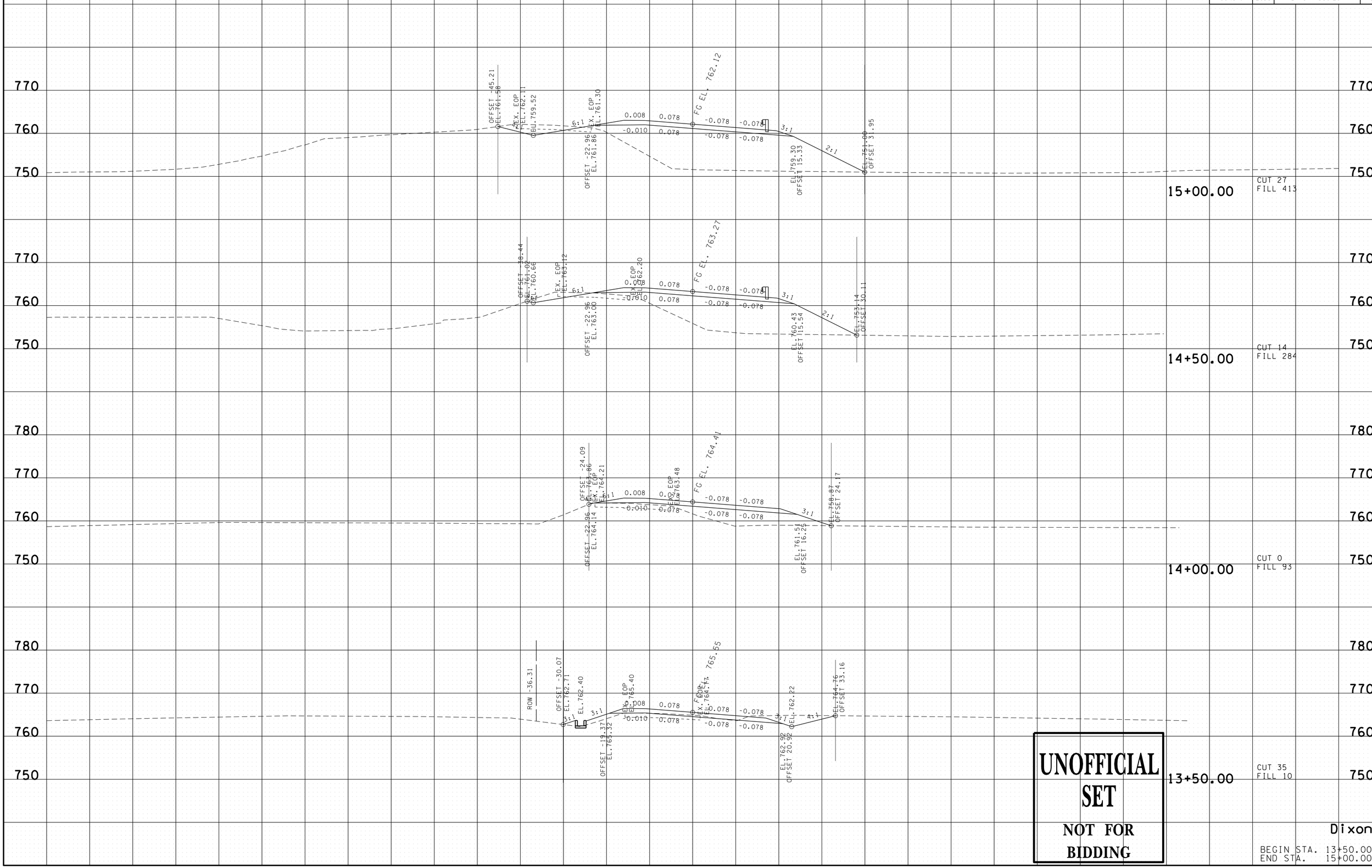
NOT FOR BIDDING

Dixon

BEGIN STA. 12+00.00
END STA. 13+44.29

17-JUL-2015 10:21
\\AG03SDCWF00010.net.ads.state.tn.us\PROJECTS\Bedford\SR-130, Bridges over Branch LM 9/25 4,77.5,45,9,83 and over Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\041- 043 cXSections Dixon.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	42



UNOFFICIAL SET

NOT FOR BIDDING

Dixon

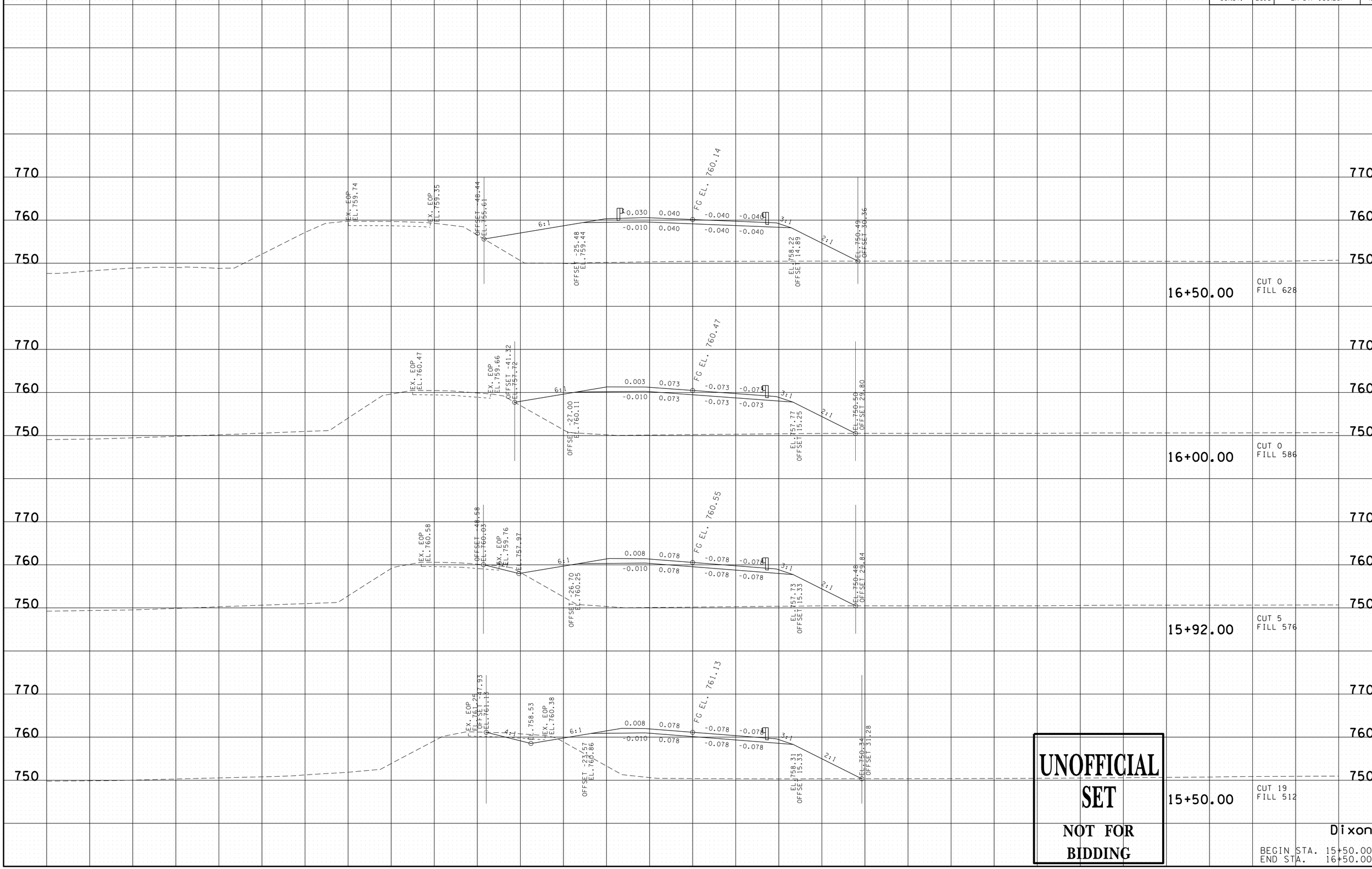
BEGIN STA. 13+50.00
END STA. 15+00.00

17-JUL-2015 10:21
\\AGO3SDCWF0001O.net.ads.state.tn.us\PROJECTS\Bedford\SR-130_Bridges over Branch LM 8.30\SR130\Construction Turn In\15673-00 -CONST\04- 043 cXSections Dixon.sht

Sugar Creek LM 8.30\SR130\Construction Turn In\15673-00 -CONST\04- 043 cXSections Dixon.sht

4.77,5.45,9.83 and over Branch LM 8/32

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	43



UNOFFICIAL SET

NOT FOR BIDDING

Dixon

BEGIN STA. 15+50.00
END STA. 16+50.00

17-JUL-2015 10:21
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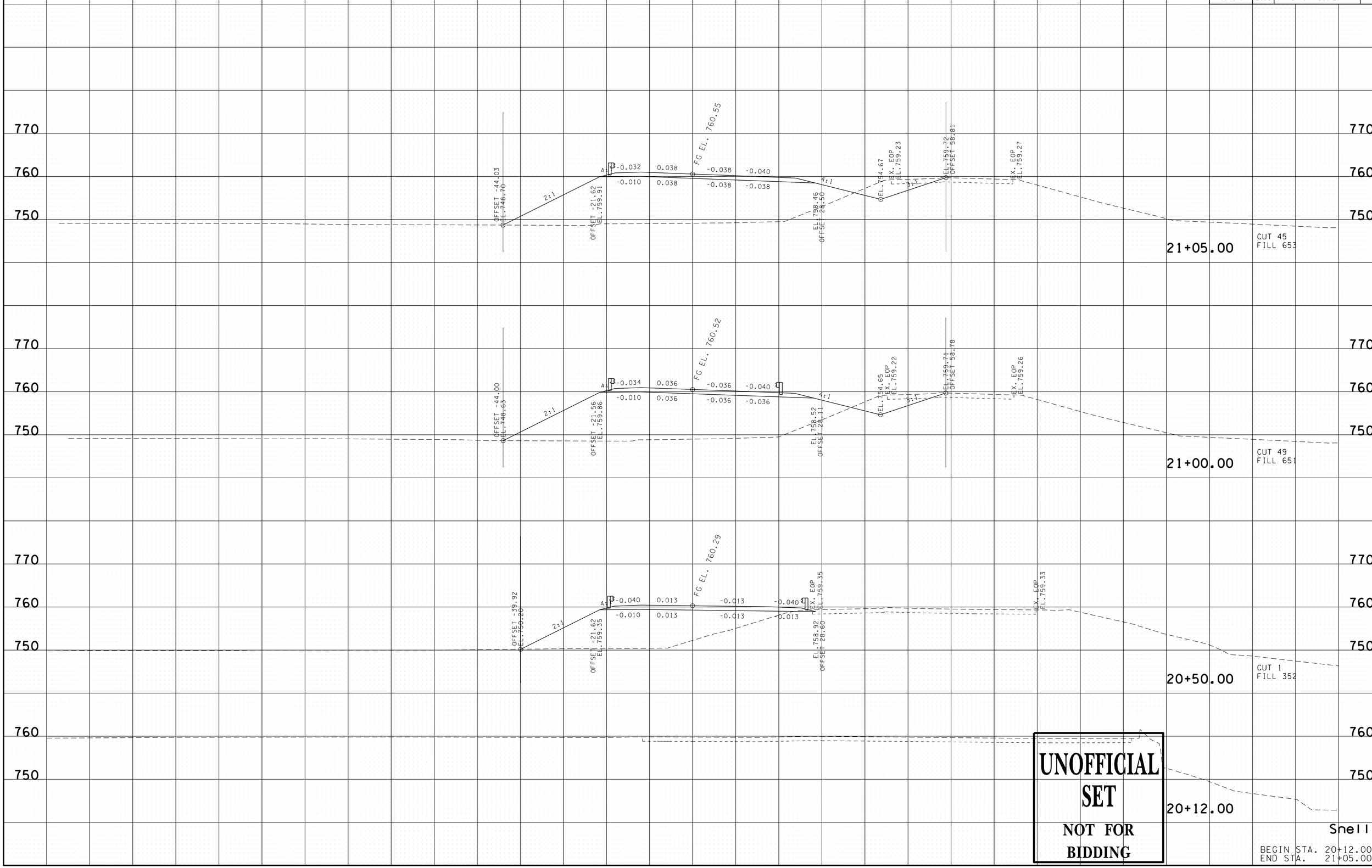
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	44



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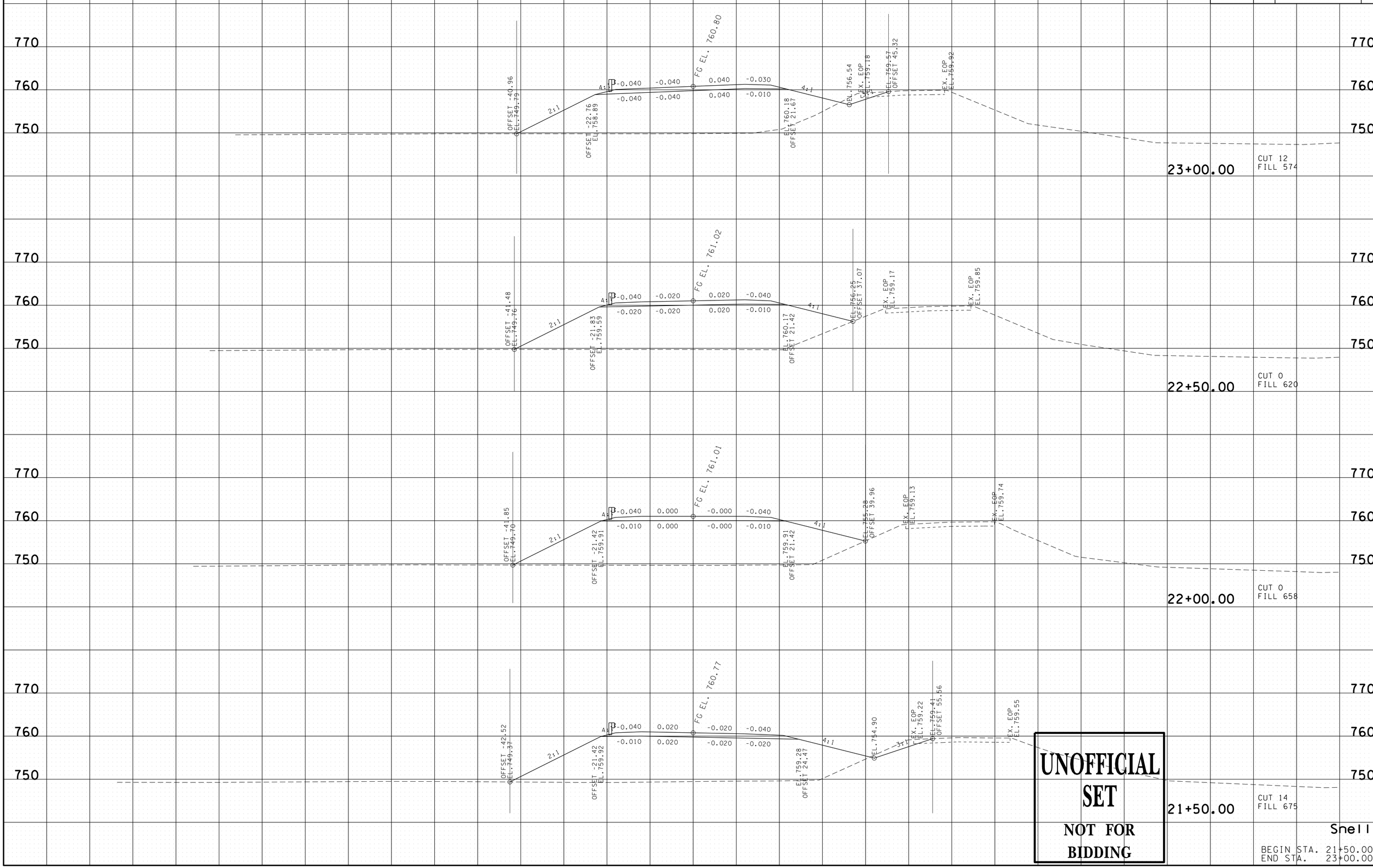
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	45



UNOFFICIAL SET

NOT FOR BIDDING

Shell

BEGIN STA. 21+50.00
END STA. 23+00.00

17-JUL-2015 10:21
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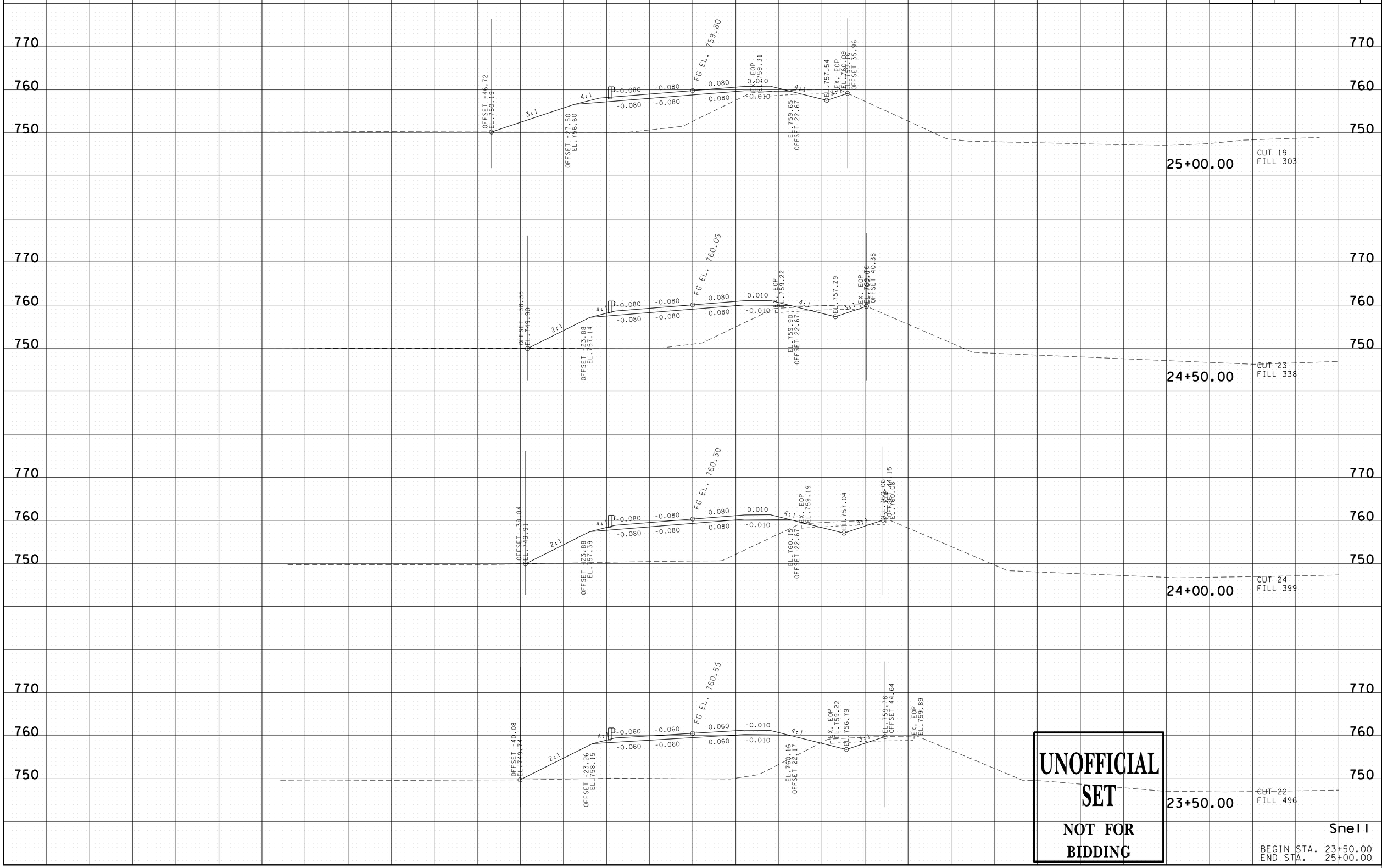
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	46



UNOFFICIAL SET

NOT FOR BIDDING

Shell

BEGIN STA. 23+50.00
END STA. 25+00.00

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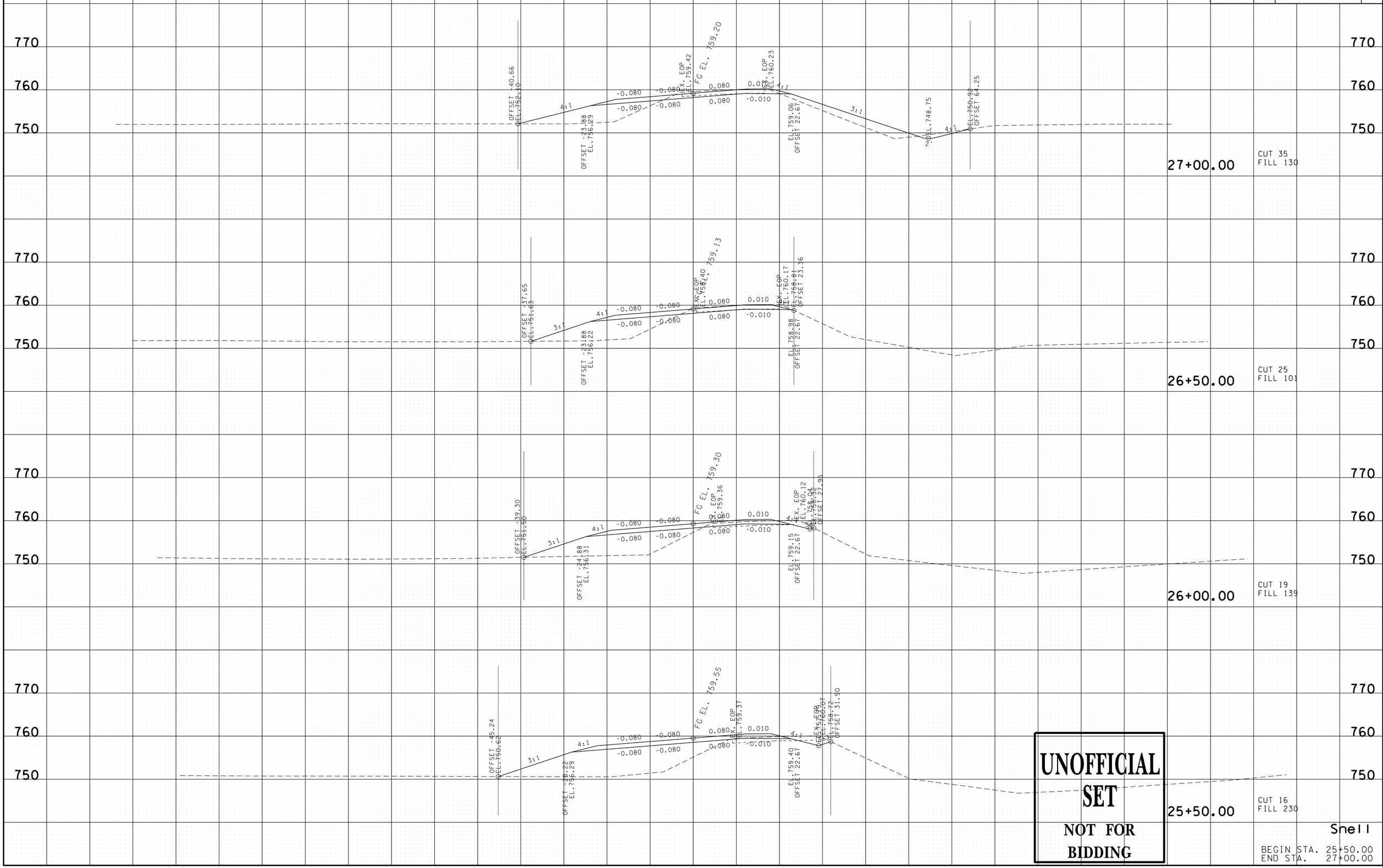
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	47



UNOFFICIAL SET

NOT FOR BIDDING

Snell

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

17-JUL-2015 10:21
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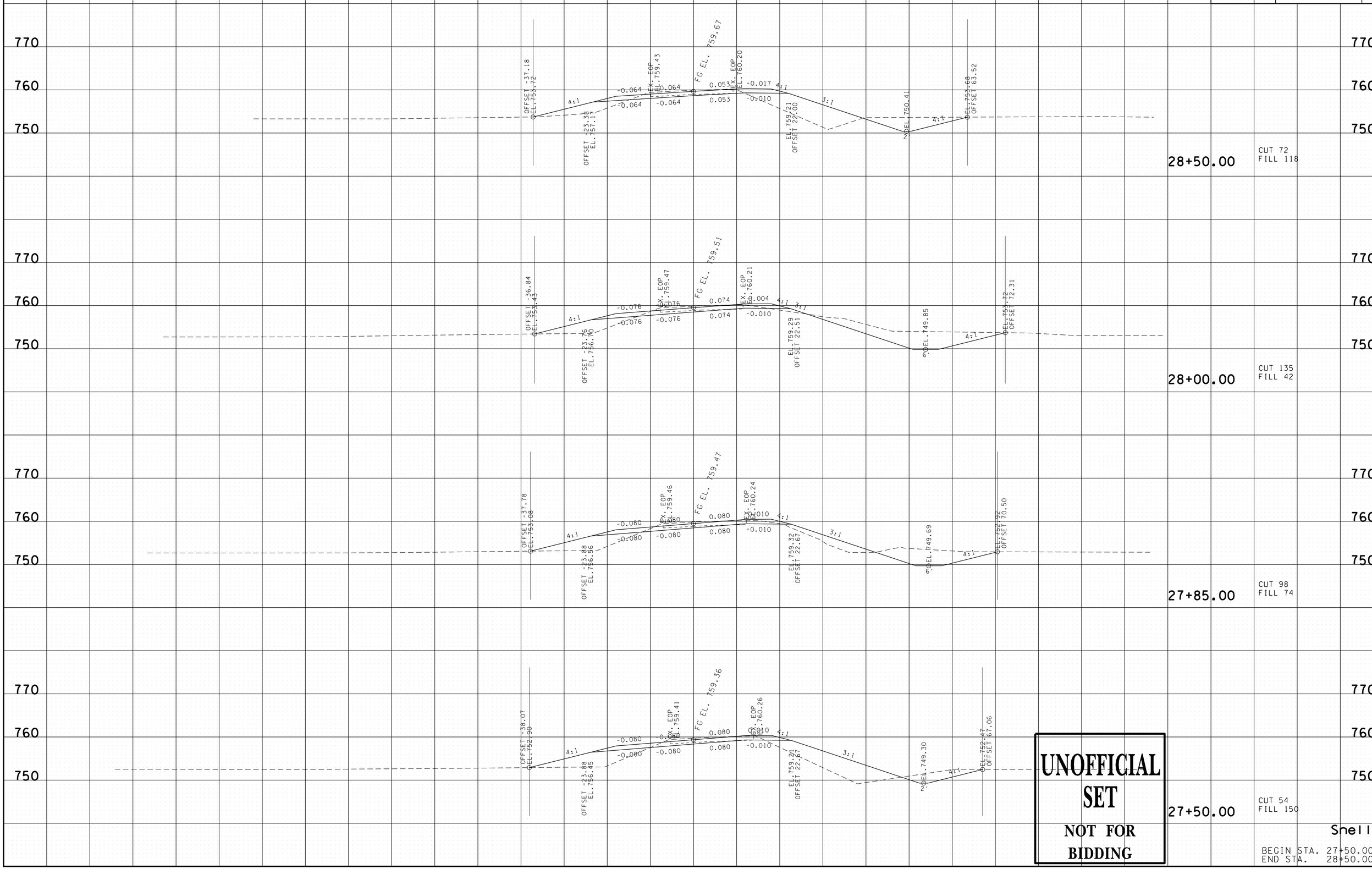
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	48



UNOFFICIAL SET

NOT FOR BIDDING

Snell

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

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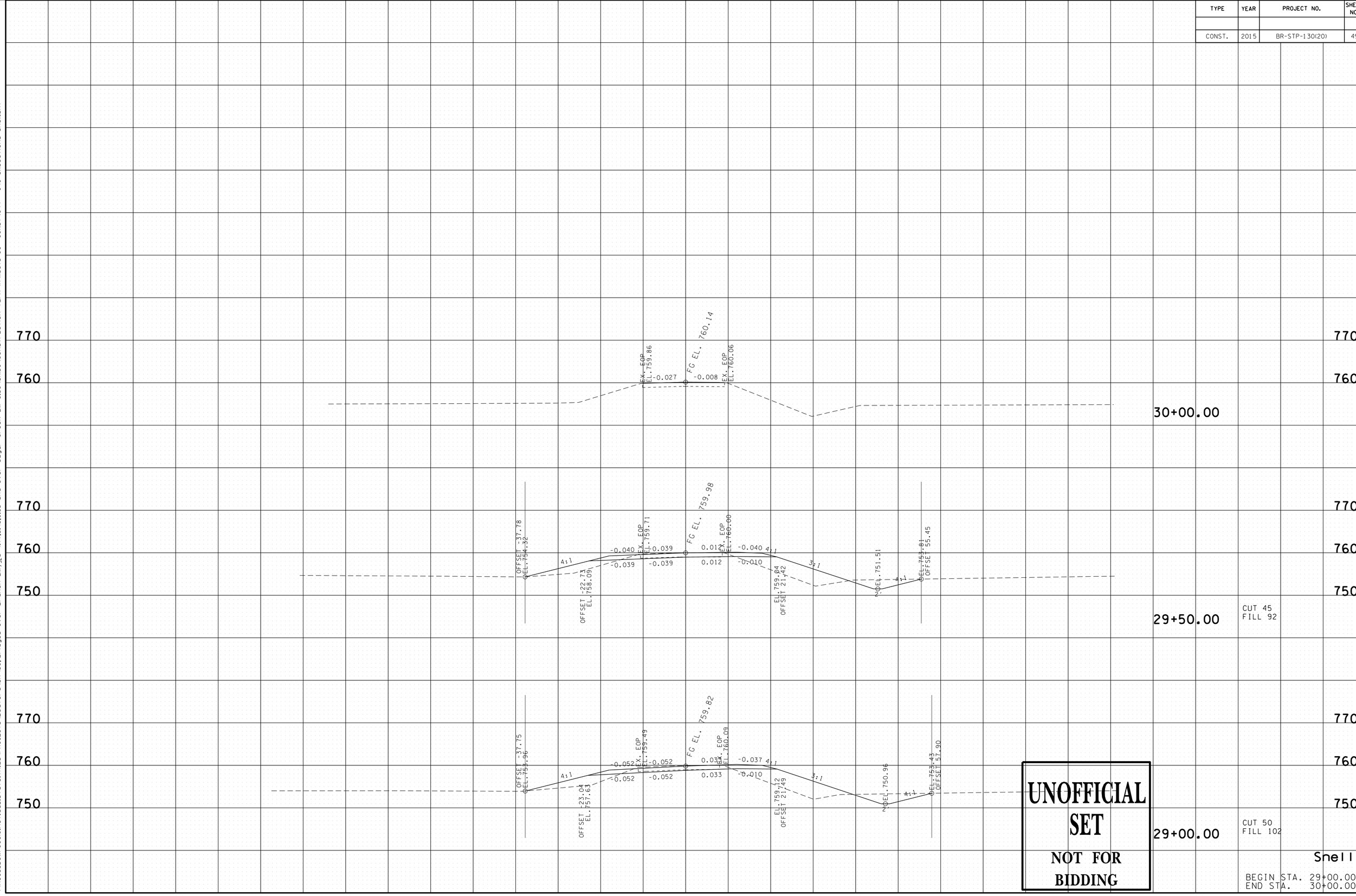
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-130(20)	49



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