2/7/2014 skldd	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650CV01.dgn GRWCOV	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP00-0012-01(112)	1	

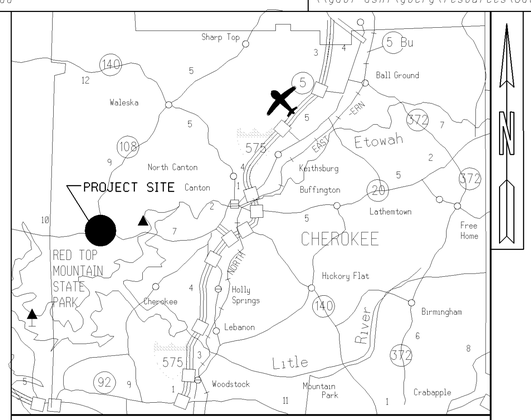
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED

INTERSECTION IMPROVEMENTS
SR20 @ SR108

FEDERAL AID PROJECT
CHEROKEE COUNTY
STP00-0012-01(112)

FEDERAL ROUTE # N/A
STATE ROUTE # 20
P.I. NO. 662650



LOCATION SKETCH

DESIGN DATA:	SR20	SR108
TRAFFIC A.D.T.:	12000 (2015)	2500 (2015)
TRAFFIC A.D.T.:	17700 (2035)	3700 (2035)
TRAFFIC D.H.V.:	1570 (2035)	335 (2035)
DIRECTIONAL DIST:	50%	50%
% TRUCKS:	10%	10%
24 HR.TRUCKS %:	8.5%	8.5%
SPEED DESIGN:	55	55

LOCATION & DESIGN
APPROVAL DATE: 6-11-2008

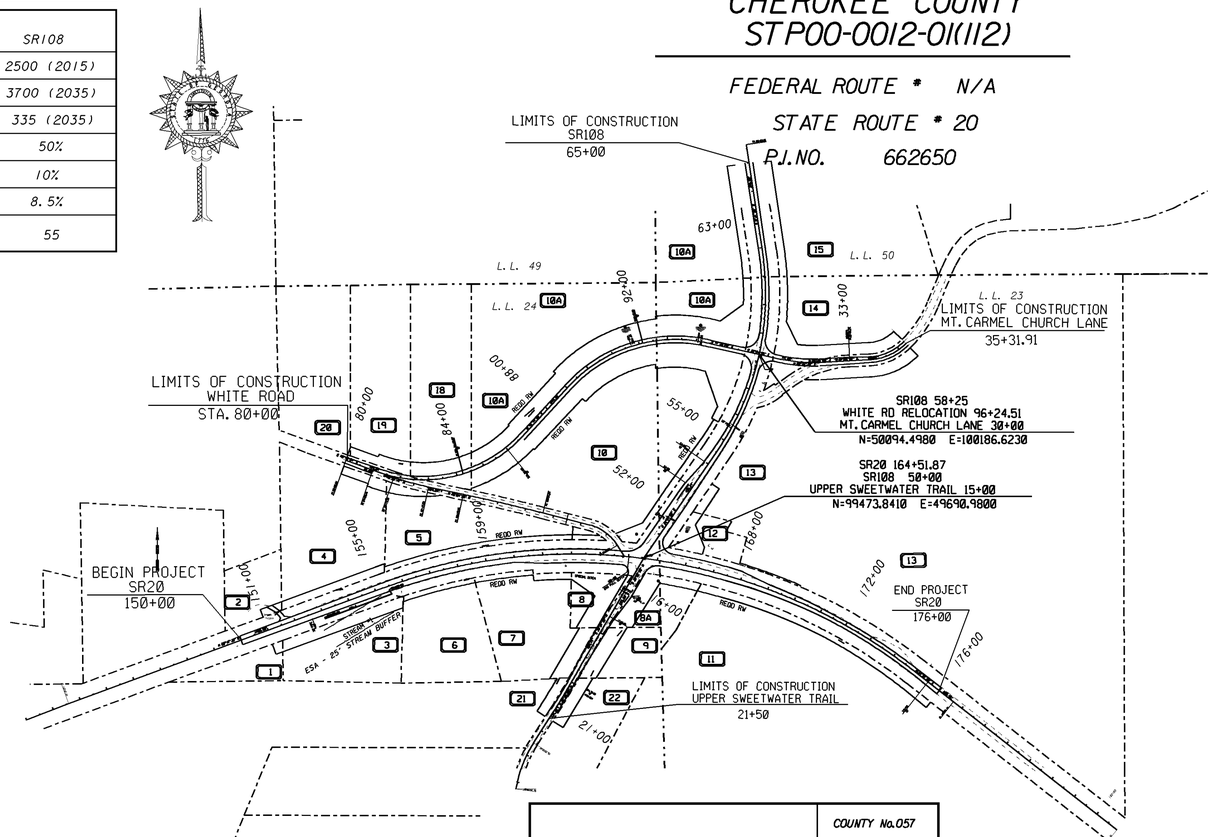
FUNCTIONAL CLASS:
RURAL PRINCIPAL ARTERIAL

THIS PROJECT IS 100% IN CHEROKEE COUNTY AND IS 100% IN CONG.DIST.NO.11 .

PROJECT DESIGNATION: EXEMPT

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

C:\DGN\662650\GA STATE MAP.DGN (MAP) ON= 1-63
C:\DGN\662650\662650DGN.DGN (MAIN) ON= 1,3,4,6,8,14,17-19,21-23,26-34,36-39,42-52,54-60
C:\DGN\662650\662650CONSTCL.DGN (CL) ON= 1,4-9,11-63
C:\DGN\662650\TOPO.DGN (TOPO) ON= 1,2,4-16,18,20-22,24-48,52,55,56,63
C:\DGN\662650\PROP.DGN (PROP) ON= 2-7,12-27,29-42,45-57,59-63
CONCOV



NOTE :
ALL REFERENCES IN THIS DOCUMENT,WHICH INCLUDES ALL PAPERS,WRITINGS, DOCUMENTS,DRAWINGS,OR PHOTOGRAPHS USED,OR TO BE USED IN CONNECTION WITH THIS DOCUMENT,TO "STATE HIGHWAY DEPARTMENT OF GEORGIA ","STATE HIGHWAY DEPARTMENT ",GEORGIA STATE HIGHWAY DEPARTMENT "," HIGHWAY DEPARTMENT ",OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA,AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

MIDPOINT COORDINATES
N=99473.8410 E=49690.9800
SR20 STA. 164+51.87
SR108 STA. 50+00
UPPER SWEETWATER TRAIL STA. 15+00

PREPARED BY: ____________________
DESIGN

RECOMMENDED FOR APPROVAL BY: ____________________
DISTRICT DESIGN DESIGN

SUBMITTED BY: ____________________
DISTRICT ENGINEER

DATE	CHIEF ENGINEER

PLANS COMPLETED - -	
REVISIONS	

THE DATA,TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY,WHETHER BY DRAWINGS OR NOTES,OR IN ANY OTHER MANNER,ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY,ARE NOT GUARANTEED,AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04,102.05,AND 104.03 OF THE SPECIFICATIONS.

NO SCALE

LENGTH OF PROJECT CHEROKEE COUNTY	COUNTY No.057 MILES
NET LENGTH OF ROADWAY	0.492
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.492
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.492

3/1/2007

2/7/2014 Fri Feb 07 09:31:24 2014 skldd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Index.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

SHEET NO.	DWG NO.	DESCRIPTION
1		COVER SHEET
2		INDEX
3		REVISION SUMMARY
4		GENERAL NOTES
5-7		TYPICAL SECTIONS
8		SUMMARY OF QUANTITIES
9-12		TRAFFIC DIAGRAM
13-16		CONSTRUCTION LAYOUT
17-18		MAIN CONSTRUCTION PLAN SHEETS
19-20		CROSS RD PLAN SHEETS
21-22		MAINLINE PROFILE
23-27		CROSS RD PROFILE
28-32		DRIVEWAY PROFILES
33-47		CONSTRUCTION STAGING PLANS
48-115		STAGING CROSS SECTIONS
116-118		DRAINAGE CROSS SECTIONS
119-157		EARTHWORK CROSS SECTIONS
158-162		UTILITY PLANS
163		UTILITY LEGEND
164-167		SIGNING AND MARKING PLAN
168-169		SIGNAL PLAN
170		WALL ENVELOPES
??		CONSTRUCTION DETAILS
??		GA STANDARDS

SHEET NO.	DWG NO.	DESCRIPTION

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 100 200 400

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

INDEX

DRAWING NO. 2-1

2/7/2014 Fri Feb 07 09:31:26 2014 skldd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650RevSum.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 100 200 400

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

REVISION SUMMARY

DRAWING NO. 3-1

ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND ASPHALT FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. DRIVES SHALL BE CONSTRUCTED USING:

ASPHALT - ASPH CONC 12.5mm SUPERPAVE (140 LB/SY) GRADED AGGREGATE BASE, 6"

CONCRETE - RESIDENTIAL - DRIVEWAY CONCRETE, 6" THICK

ALL ADA RAMPS AND SIDEWALKS WITHIN THE INTERSECTION RADII ARE TO BE 8 INCH CONCRETE. THE COST FOR ADA RAMPS SHALL BE INCLUDED IN THE PRICE BID FOR 8 INCH CONCRETE SIDEWALK.

THERE IS NO SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTUCTION ACTIVITIES OCCURING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.

ALL DRIVEWAYS ARE TO BE PAVED BACK TO THE TIE-IN POINT OR REQUIRED RIGHT OF WAY WHICHEVER IS GREATER. EARTH/GRAVEL DRIVEWAYS WILL BE PAVED AITH ASPHALT TO THE R/W LINE ANS CONTINUED WITH AGGREGATE SURFACE COURSE TO THE TIE-IN POINT.

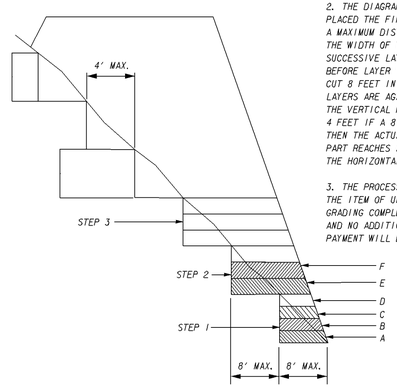
SHORNING REQUIRED TO CONSTRUCT THE WORK WILL BE INCLUDED IN THE OVERALL BID PRICE.

NO WORK SHALL TAKE PLACE IN STREAM I

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER. THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE. (SEE DIAGRAM AT LEFT.)

2. THE DIAGRAM SHOWS THAT BEFORE LAYER 'A' IS PLACED THE FIRST STEP IS TO (1) CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT THE WIDTH OF THE TYPICAL D-8 BULDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER 'E' IS PLACED. THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.

3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.



BENCHING DETAIL

Revised 9/29/08 4.5.28 NO SCALE

PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION

TYPE OF PIPE INSTALLATION				CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
					ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR AASHTO F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING			X							
	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING			X					X	X	X
	CROSS DRAIN	GRADE ≤ 10%	ADT < 250	X					X	X	X
			250 < ADT < 1500	X					X	X	X
			1500 < ADT < 15,000	X					X	X	X
			ADT > 15,000	X							
		GRADE > 10%	ADT < 250						X	X	X
			ADT > 250						X	X	X
SIDE DRAIN				X					X	X	X
PERMANENT SLOPE DRAIN					X	X	X		X	X	X
PERFORATED UNDERDRAIN					X	X	X	X	X		X

NOTE:

1. ALLOWABLE MATERIALS ARE INDICATED BY AN 'X'.
2. STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GEORGIA STANDARD 1030-D OR 1030-P, WHICHEVER IS APPLICABLE, AND THE STANDARD SPECIFICATIONS.
3. GRADED AGGREGATE BACKFILL SHALL BE USED IN CROSS DRAIN APPLICATIONS FOR ALL PLASTIC PIPES (AASHTO M-294, HDPE PIPE ; AASHTO M-304, PVC PIPE; ASTM F-949, PVC PIPE).
4. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.

REV. 09-03-08

UTILITY OWNER	SERVICE
AMICALOLA EMC	ELECTRICAL
CHEROKEE COUNTY WATER	WATER
WINDSTREAM	TELEPHONE
COMCAST	CABLE TV

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

1/5/2009 GPLN

SCALE IN FEET
0 100 200 400

REVISION DATES

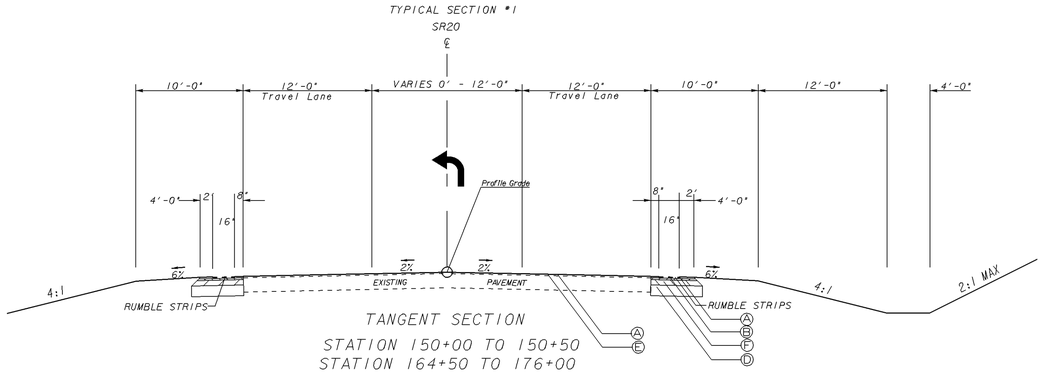
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

GENERAL NOTES

DRAWING NO. 04 -01

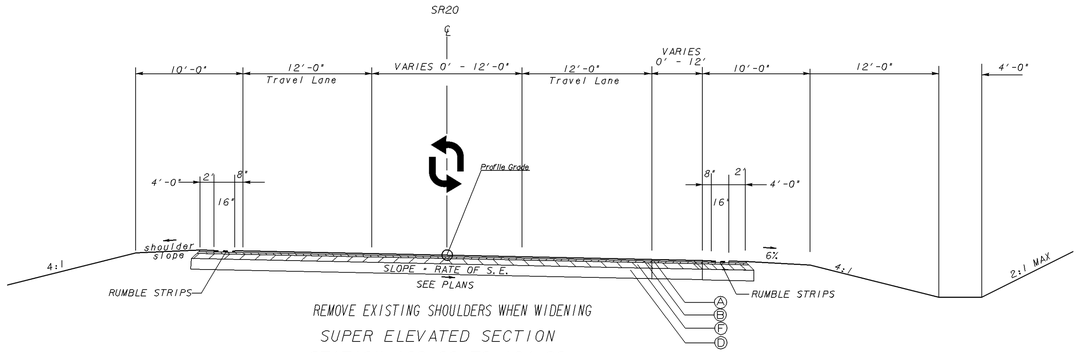
2/25/2014 skidd	Tue Feb 25 10:03:44 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650typ.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP00-0012-01(112)		

TYPICAL SECTION #1
SR20



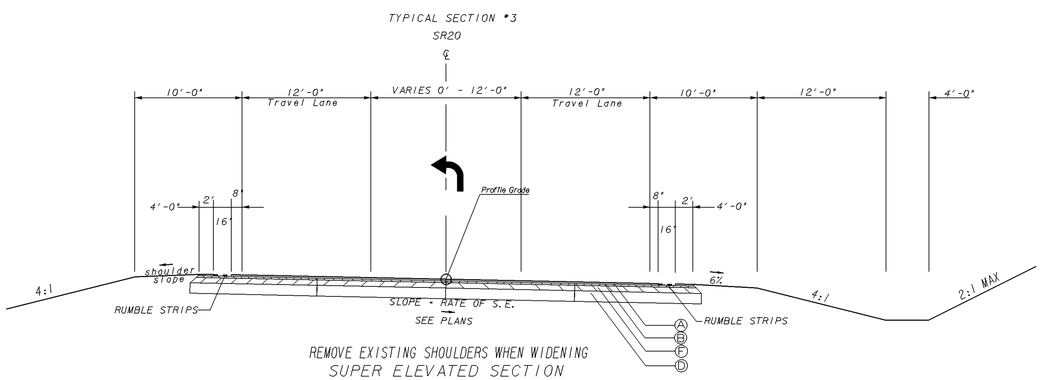
TANGENT SECTION
STATION 150+00 TO 150+50
STATION 164+50 TO 176+00

TYPICAL SECTION #2
SR20



REMOVE EXISTING SHOULDERS WHEN WIDENING
SUPER ELEVATED SECTION
STATION 160+00 TO 164+00

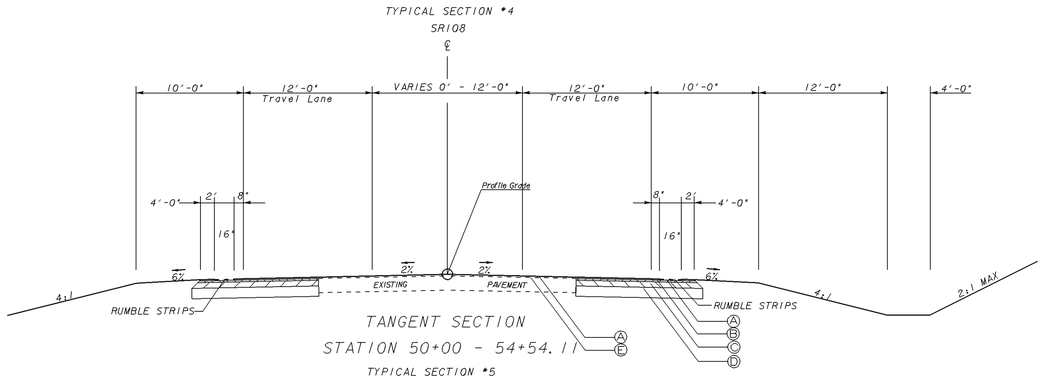
TYPICAL SECTION #3
SR20



REMOVE EXISTING SHOULDERS WHEN WIDENING
SUPER ELEVATED SECTION
STATION 151+00 - 160+00

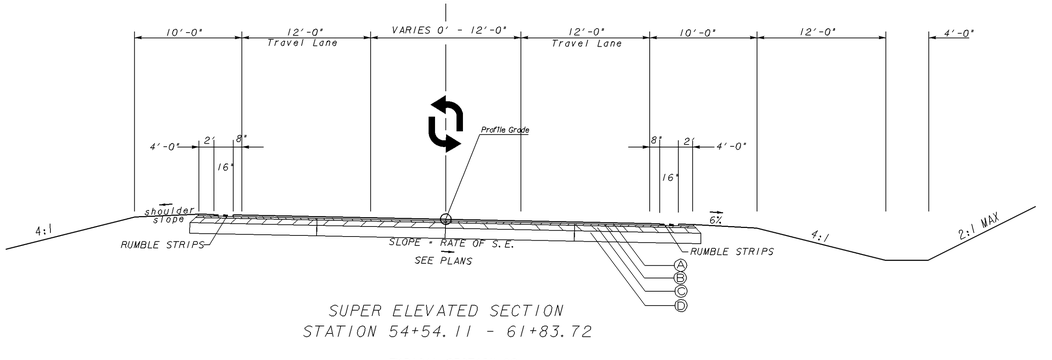
SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS

TYPICAL SECTION #4
SR108



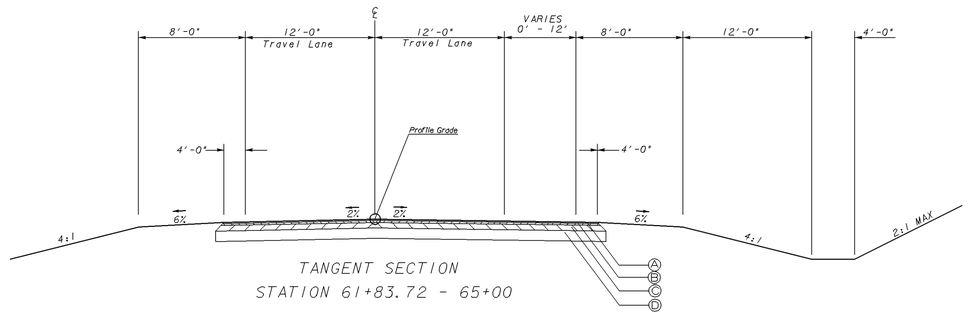
TANGENT SECTION
STATION 50+00 - 54+54.11

TYPICAL SECTION #5
SR108



SUPER ELEVATED SECTION
STATION 54+54.11 - 61+83.72

TYPICAL SECTION #6
SR108



TANGENT SECTION
STATION 61+83.72 - 65+00

Ⓐ RECYCLED ASPHALTIC CONCRETE 12.5 mm, SUPERPAVE, GP.2 ONLY, INCL. BITUM. MAT'L & H. LIME (165 LBS/SY)
Ⓑ RECYCLED ASPHALTIC CONCRETE 19 mm, SUPERPAVE, GP 1 OR 2, INCL. BITUM. MAT'L & H.LIME (220 LBS/SY)
Ⓒ RECYCLED ASPHALTIC CONCRETE 25 mm, SUPERPAVE, GP 1 OR 2, INCL. BITUM. MAT'L & H.LIME (440 LBS/SY)
Ⓓ 14" GRADED AGGREGATE BASE, INCL MAT'L
Ⓔ RECYCLED ASPHALTIC CONCRETE LEVELING, INCL. BITUM. MAT'L & H.LIME (AS REQUIRED)
Ⓕ RECYCLED ASPHALTIC CONCRETE 25 mm, SUPERPAVE, GP 1 OR 2, INCL. BITUM. MAT'L & H.LIME (660 LBS/SY)

SEE GDOT CONSTRUCTION DETAIL P-7 FOR SAFETY EDGE

GPLN

\\GDOT-DSN1\GOPLOT\QCF\d6_PDF_Out_mono_200dpi.qcf skidd C:\dgn\662650\662650typ.prf D6-Cartersville

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

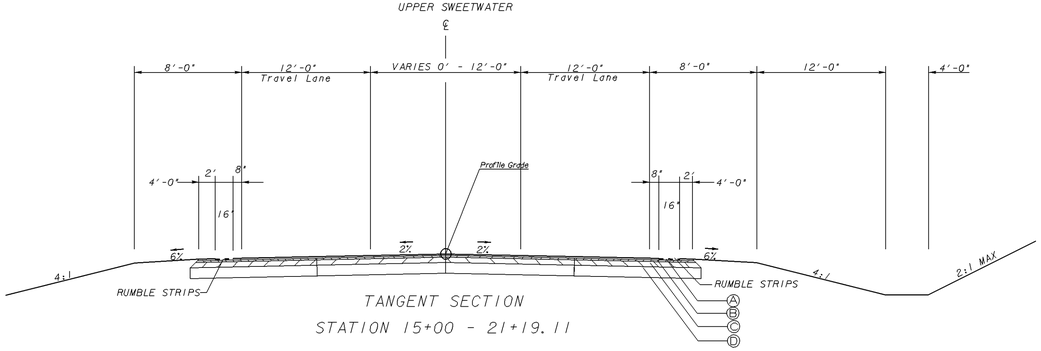
TYPICAL SECTIONS

SR20
SR108

DRAWING NO.
05 -001

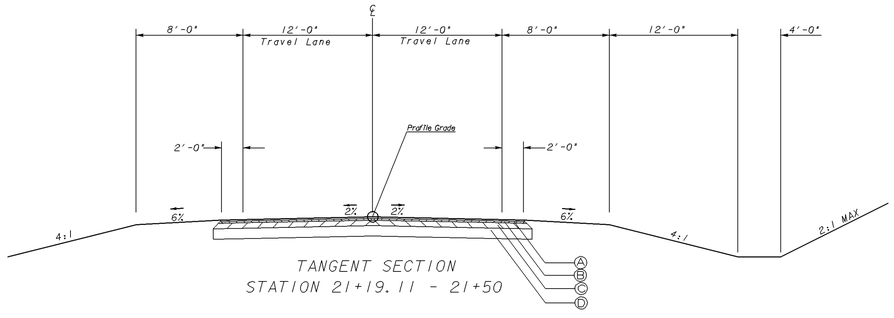
2/25/2014 skldd	Tue Feb 25 10:03:43 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650typ.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP00-0012-01(112)		

TYPICAL SECTION #7
UPPER SWEETWATER



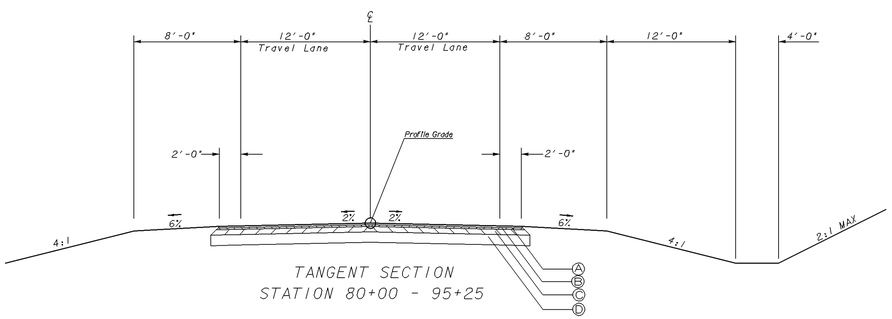
TANGENT SECTION
STATION 15+00 - 21+19.11

TYPICAL SECTION #8
UPPER SWEETWATER



TANGENT SECTION
STATION 21+19.11 - 21+50

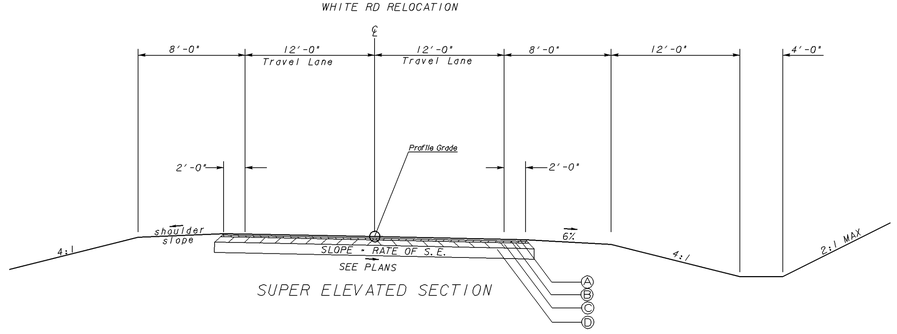
TYPICAL SECTION #9
WHITE RD RELOCATION



TANGENT SECTION
STATION 80+00 - 95+25

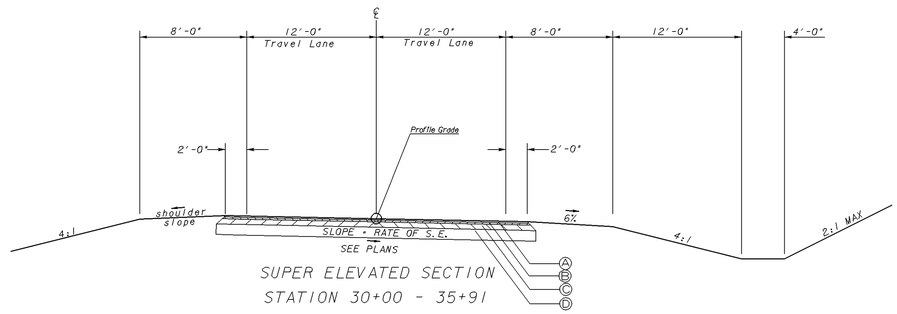
SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS

TYPICAL SECTION #10
WHITE RD RELOCATION



SUPER ELEVATED SECTION

TYPICAL SECTION #11
MT. CARMEL CHURCH LANE



SUPER ELEVATED SECTION
STATION 30+00 - 35+91

Ⓐ RECYCLED ASPHALTIC CONCRETE 9.5 mm TP1, SUPERPAVE, ONLY, INCL. BITUM. MAT'L & H. LIME (110 LBS/SY)
Ⓑ RECYCLED ASPHALTIC CONCRETE 19 mm, SUPERPAVE, GP 1 OR 2, INCL. BITUM. MAT'L & H.LIME (220 LBS/SY)
Ⓒ RECYCLED ASPHALTIC CONCRETE 25 mm, SUPERPAVE, GP 1 OR 2, INCL. BITUM. MAT'L & H.LIME (275 LBS/SY)
Ⓓ 8" GRADED AGGREGATE BASE, INCL MAT'L
Ⓔ RECYCLED ASPHALTIC CONCRETE LEVELING, INCL. BITUM. MAT'L & H.LIME (AS REQUIRED)

SEE GDOT CONSTRUCTION DETAIL P-7 FOR SAFETY EDGE

GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

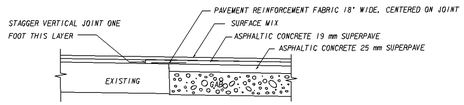
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

TYPICAL SECTIONS

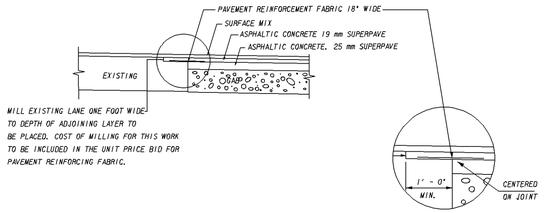
SR108, UPPERSWEETWATER
MT. OLIVE & WHITE RELOCATION

DRAWING No. 05 -002

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE



TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE



ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS;

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
0.0150 FT/FT - MINIMUM	0.0156 FT/FT - MINIMUM
0.0208 FT/FT - DESIRABLE	0.0208 FT/FT - DESIRABLE
0.0250 FT/FT - MAXIMUM	0.0300 FT/FT - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

	RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM	1:150	0.67%
DESIRABLE	1:200	0.50%
MAXIMUM	1:300	0.33%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

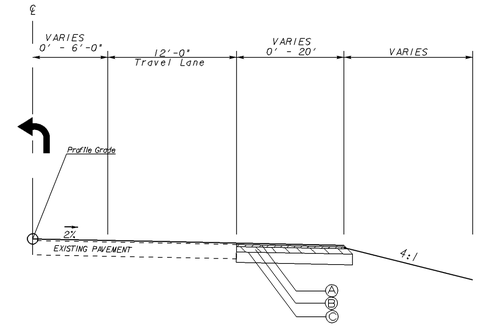
D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

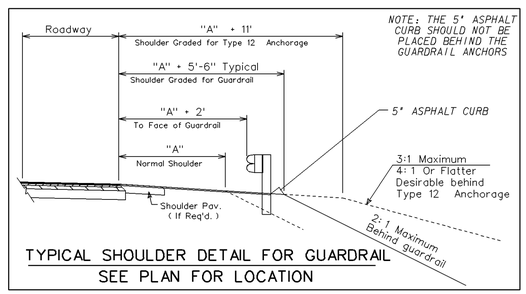
E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

TYPICAL SECTION #13
SR20 TEMPORARY PAVEMENT



TEMPORARY PAVEMENT SECTION
STATION 152+50 TO 164+00

Ⓐ RECYCLED ASPHALTIC CONCRETE 19 mm, SUPERPAVE, GP 1 OR 2, INCL. BITUM. MAT'L & H.LIME (192.5 LBS/SY)
Ⓒ RECYCLED ASPHALTIC CONCRETE 25 mm, SUPERPAVE, GP 1 OR 2, INCL. BITUM. MAT'L & H.LIME (275 LBS/SY)
Ⓓ 8" GRADED AGGREGATE BASE, INCL MAT'L

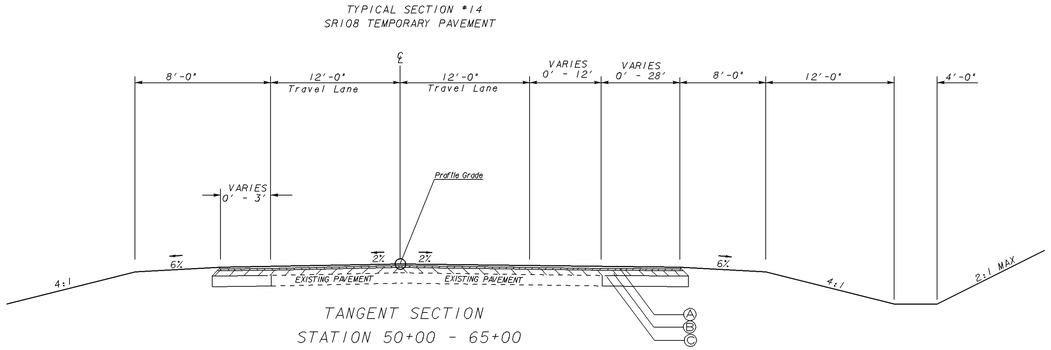


TYPICAL SHOULDER DETAIL FOR GUARDRAIL
SEE PLAN FOR LOCATION

SLOPE	CONTROLS
SLOPE	FILL
4:1	0' - 10'
2:1	OVER 10'

NOTE: SLOPES MAY BE ADJUSTED BY THE ENGINEER TO STAY WITHIN THE REQUIRED RIGHT-OF-WAY OR EASEMENTS.

TYPICAL SECTION #14
SR108 TEMPORARY PAVEMENT



TANGENT SECTION
STATION 50+00 - 65+00

SEE GDOT CONSTRUCTION DETAIL P-7 FOR SAFETY EDGE

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

TYPICAL SECTIONS

TYPICAL DETAILS

DRAWING No. 05 -003

GPLN

TRAFFIC CONTROL

STP00-0012-01(112)	LUMP

GRADING COMPLETE

STP-012-1(112)	LUMP

TEMPORARY BARRIER - METHOD 1

TOTAL	1200 LF

BARRICADE ASSEMBLY

TYPE III

STATION	SIDE	LF
OLD SR3		
80+50	C/L	20
82+50	C/L	20
TOTAL		40

TYPE III BARRICADE TO BE CONSTRUCTED ON WHITE RD

RUMBLE STRIPS GROUND IN PLACE

TOTAL	1EA

STRAIN POLE,TP IV

TOTAL	4 EACH

AGGREGATE SURFACE COURSE

TOTAL	8000 TONS

R/W MARKERS

TOTAL	80 EA

CHANGEABLE MESSAGE SIGN TP 3

TOTAL	2 EACH

STRIPING AND MARKING QUANTITIES

ITEMS	UNIT	TOTAL
THERMOPLASTIC SOLID TRAF STRIPE, 5" WHITE	LIN FT	13900
THERMOPLASTIC SOLID TRAF STRIPE, 5" YELLOW	LIN FT	7200
THERMOPLASTIC SOLID TRAF STRIPE, 24" WHITE	LIN FT	210
THERMOPLASTIC MINI SKIP TRAF STRIPE, 5" WHITE	GROSS LIN FT	800
THERMOPLASTIC TRAF STRIPE WHITE	SQ. YDS	431
THERMOPLASTIC TRAF STRIPE YELLOW	SQ. YDS	1333
THERMOPLASTIC PVMT MARKING, ARROW TP 2	EACH	22

DRAINAGE QUANTITIES

STORM DRAIN PIPE

STATION	SIDE	STORM DRAIN PIPE GA.STD.1030-D 18"	STORM DRAIN PIPE GA.STD.1030-D 24"	FLARED END SECTION GA.STD.1120 18"	FLARED END SECTION GA.STD.1120 24"	RIP RAP TP3 24"	PLASTIC FILLER FABRIC	FOUND BKFILL MATL TP2	HEIGHT OF FILL (FT)
		LIN.FT	LIN.FT	EACH	EACH	SQ YDS	SQ YDS	CU YDS	
SR20									
152+53.93	LT & RT			2		30	30	50	1-10
SR108									
51+65.73	LT & RT	90		2		30	30	50	1-10
55+57.73	LT & RT	70		2		30	30	50	1-10
UPPER SWEETWATER									
16+31.33	LT & RT	48		2		30	30	50	1-10
WHITE RELOCATION									
91+74.84	LT & RT	88		2		30	30	50	1-10
94+10.02	LT & RT	55		2		30	30	50	1-10
TOTALS		351		12		180	180	300	

GUARDRAIL

STATION	SIDE	TP12 ANCH GA.STD.4040	TP1 ANCH GA.STD.4012D	W BEAM GUARDRAIL GA.STD.4010
		EACH	EACH	FT
SR20				
152+00 - 153+50	LEFT	1	1	150
152+00 - 155+00	RIGHT	1	1	300
SR108				
51+50 - 50+50	RIGHT	1	1	100
55+00 - 56+00	RIGHT	1	1	100
WHITE RD RELOC				
85+00 - 87+00	RIGHT	1	1	200
84+61 - 86+00	LEFT	1	1	140
TOTAL		6	6	990

SURFACING QUANTITES

ITEMS	RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY INCL. BITUM MATL & H LIME TON	RECYCLED ASPH CONC 19mm SUPERPAVE, GP 1 OR 2 INCL. BITUM MATL & H LIME TON	RECYCLED ASPH CONC 25mm SUPERPAVE, GP 1 OR 2 INCL. BITUM MATL & H LIME TON	RECYCLED ASPH CONC LEVELING INCL. BITUM MATL & H LIME TON	BITUMINOUS TACK COAT GALLONS	GRADED AGGR. BASE COURSE INCL. MATL TON	DRIVEWAY CONCRETE 6" SQ. YDS	TP 2, PVMT REINF FABRIC STRIPS, INCL BITUM BINDER LF.
SR20	366	1201	2402	175	1114	7206	185	800
SR108	176	608	1217	79	544	3650	119	1200
WHITE RD.	128	532	1064	44	425	3192		
UPPER SWEETWATER	68	270	540	25	222	1620	225	1200
MT CARMEL CHURCH RD	43	104	208	27	119	623		
SR20 DRIVES	10					178		
WHITE RD. DRIVES	2					27		
TOTALS	793	2715	5431	350	2424	16496	529	3200

SIGN QUANTITIES (RED SERIES)

STATION	CODE	HIGHWAY SIGNS TP.1 MATL. REFL SHEETING,TP 9 SIZE	QUANTITY	SQ FT.	GALV STEEL POST ASSEMBLY,TP 7 LIN.FT.	QUANTITY
SR108						
57+78	R1-1	36" X 36"	1	9.00	13	1
WHITE RD						
96+00	R1-1	36" X 36"	1	9.00	13	1
MT CARMEL CHURCH RD						
30+28	R1-1	36" X 36"	1	9.00	13	1
TOTAL			3	27.00	52	3

GRASSING

ITEM	UNIT	TOTAL
PERMANENT GRASSING	ACRES	18
AGRICULTURAL LIME	TON	54
FERTILIZER MIXED GRADE	TON	17
FERTILIZER NITROGEN CONTENT	LBS	900

SIGN QUANTITIES

STATION	HIGHWAY SIGNS TP.1 MATL REFL SHEETING,TP9 CODE	SIZE	QUANTITY	SQ FT.	HIGHWAY SIGNS TP.1 MATL REFL SHEETING,TP9 CODE	SIZE	QUANTITY	SQ FT.	GALV STEEL POST ASSEMBLY TP 7 LIN.FT.	QUANTITY
SR20										
154+00	M2-1	21	1	3.00	M1-5	30	1	5.00	13	1
157+37	W3-3	36	1	9.00	W16-8A	24" X 12"	1	2.00	13	1
159+20	M6-1	21	1	3.00	M1-5	30	1	5.00	13	1
159+20	M6-3	21	1	3.00	M1-5	24	1	4.00	13	1
161+00	M3-4	24	1	4.00	M1-5	24	1	4.00		
169+00	M3-2	24	1	4.00	M1-5	24	1	4.00		
169+50	M6-1	21	1	3.00	M1-5	24	1	4.00	13	1
171+00	W3-3	36"	1	9.00	W16-8A	24" X 12"	1	2.00	13	1
175+50	M2-1	21	1	3.00	M1-5	30	1	5.00	13	1
SR108										
52+00	M4-6	21	1	3.00	M1-5	30	1	5.00	13	1
52+00	M1-5	24	1	4.00	M6-4	21	1	3.00	13	1
53+50	M3-2	24	1	4.00	M1-5	30	1	5.00	13	1
54+75	W2-1	36	1	9.00	W16-8A	24" X 12"	1	2.00	13	1
57+00	M2-1	21	1	3.00	M1-5	24	1	4.00	13	1
61+75	W2-1	36	1	9.00	W16-8A	24" X 12"	1	2.00	13	1
WHITE RD										
92+00	W3-1	36	1	9.00						
MT CARMEL CHURCH RD										
33+86	W3-1	36	1	9.00						
UPPER SWEETWATER RD										
18+00	W3-3	36	1	9.00						
TOTAL			18	100			15	56	143	11

DRAINAGE QUANTITIES

SIDE DRAIN PIPES

LOCATION	SIDE	PIPE CULVERTS GA.STD 1030-D 18"	PIPE CULVERTS GA.STD 1030-D 24"	SAFETY END SECTION GA.STD 1122 18"	SAFETY END SECTION GA.STD 1122 24"	HEIGHT OF FILL (FT)
		LIN.FT		EACH		
SR20						
151+00 - 151+38	RT	40		2		1-10
151+52 - 151+72	LT	20		2		1-10
153+68 - 153+94	LT	30		2		1-10
155+61 - 155+88	RT	30		2		1-10
158+00 - 158+30	RT	30		2		1-10
158+96 - 159+19	LT	30		2		
168+47 - 168+68	LT	20		2		1-10
172+00 - 172+28	RT	30		2		1-10
SR108						
63+21 - 62+53	RT	40		2		1-10
UPPER SWEETWATER						
17+58 - 17+80	LT	30		2		1-10
19+31 - 19+52	LT	20		2		1-10
20+00 - 20+23	RT	30		2		1-10
TOTALS		350		24		1-10

EROSION CONTROL

ITEM	UNIT	QUANTITY
TEMPORARY GRASSING	ACRES	18
MULCH	TONS	270
TEMPORARY SILT FENCE TYPE C	LIN FT	2900
MAINT. OF TEMPORARY SILT FENCE TP C	LIN FT	1450
CONSTRUCTION EXIT	EACH	8
MAINT. OF CONSTRUCTION EXIT	EACH	2
WATER QUALITY MONITORING & SAMPLING	EACH	2
WATER QUALITY INSPECTION	MONTHS	18
ORANGE FENCE	LIN FT	500
TEMPORARY SILT FENCE TYPE A	LIN FT	1500
MAINT. OF TEMPORARY SILT FENCE TP A	LIN FT	750

11/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 6 ROAD DESIGN

SUMMARY QUANTITIES

DRAWING No. 6-1

DATE: JAN/2014 10:02:10 AM	GPLOT-V8	C:\Users\skidd\Desktop\662650TRDG - Updated.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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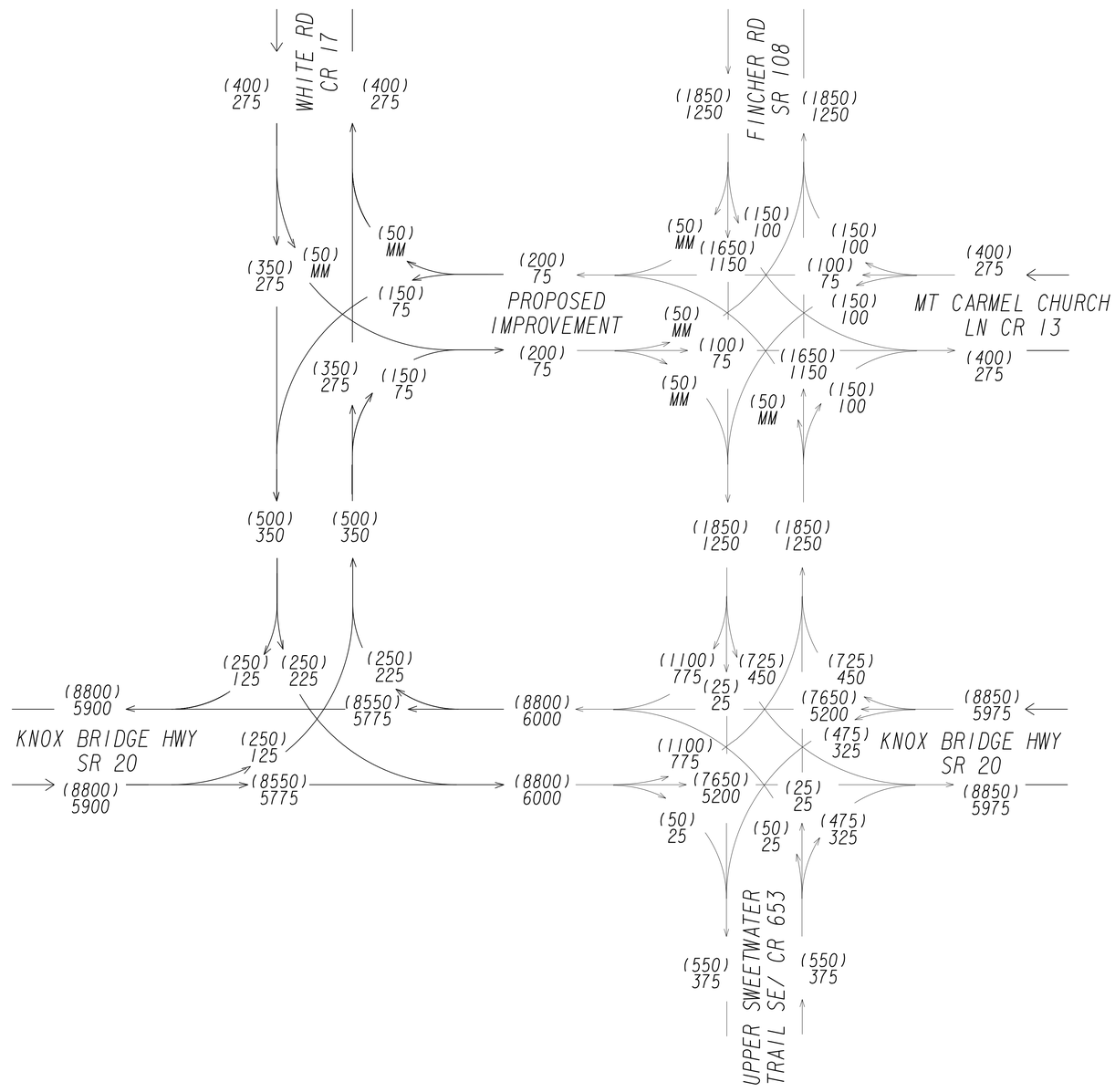
CHEROKEE COUNTY



STP00-0012-01(112) PI# 662650 SR 20 AT SR 108; CR 17/ WHITE RD AND CR 13/ MT CARMEL CHURCH LANE	2037 ADT = (000) 2017 ADT = 000 BUILD	CHEROKEE COUNTY	24 HOUR T = 10% SU = 5.5% COMB = 4.5%	REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING

TRAFFIC DIAGRAM
AFE
01/2014

DRAWING No. 10-1

12/14/2012 GPLN

DATE: JAN/2014 10:03:12 AM	GPLOT-V8	C:\Users\sk1dd\Desktop\662650TRDG - Updated.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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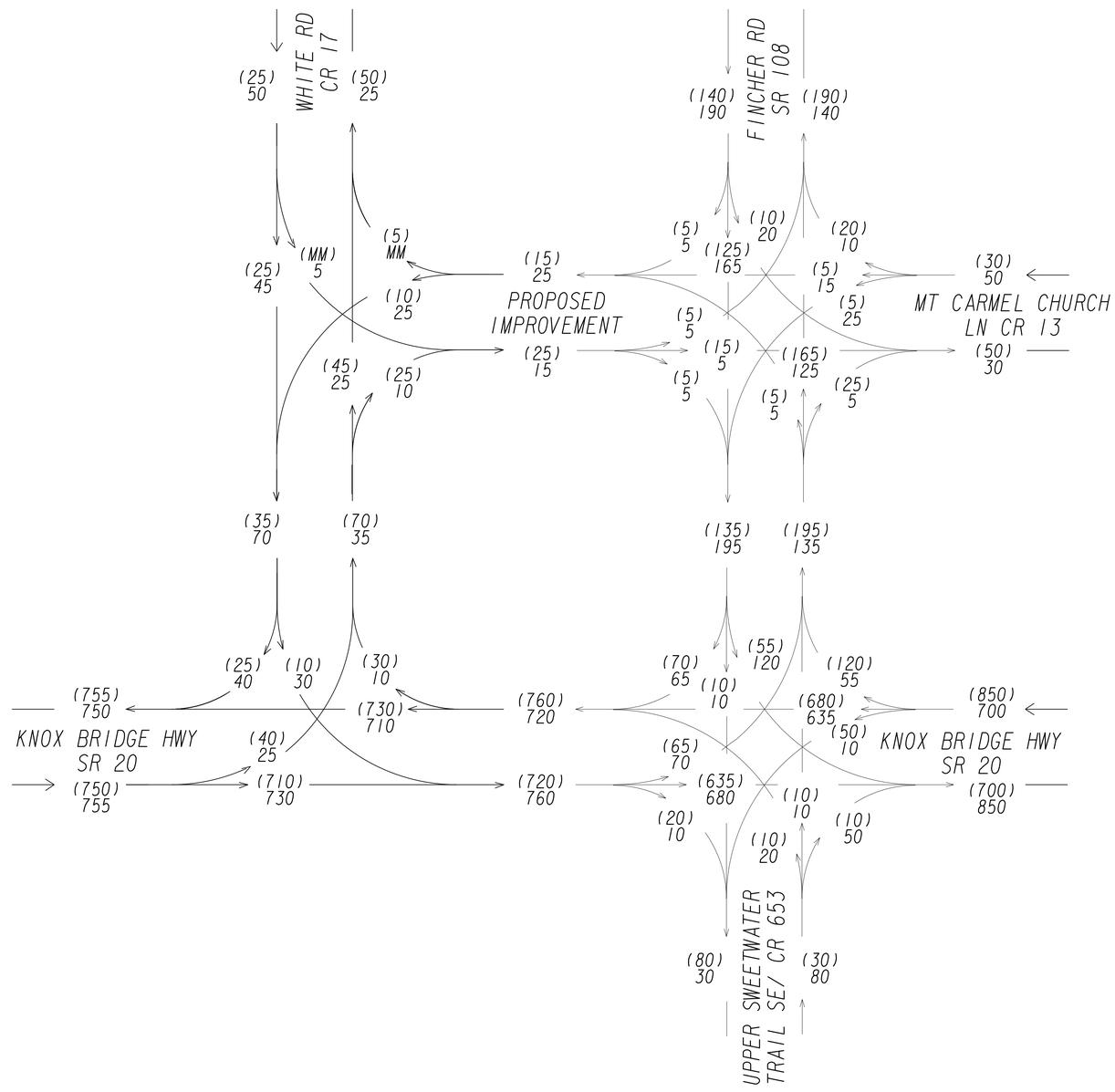
CHEROKEE COUNTY



STP00-0012-01(112) PI# 662650 SR 20 AT SR 108; CR 17/ WHITE RD AND CR 13/ MT CARMEL CHURCH LANE	2037 PM DHV = (000) 2037 AM DHV = 000 BUILD	CHEROKEE COUNTY	T = 6.5% SU = 3.5% COMB = 3%	REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PLANNING **TRAFFIC DIAGRAM** **AFE** **01/2014** DRAWING No. 10-2

12/14/2012 GPLN

DATE: JAN/2014	10:04:13 AM	GPLOT-V8	C:\Users\sk1dd\Desktop\662650TRDG - Updated.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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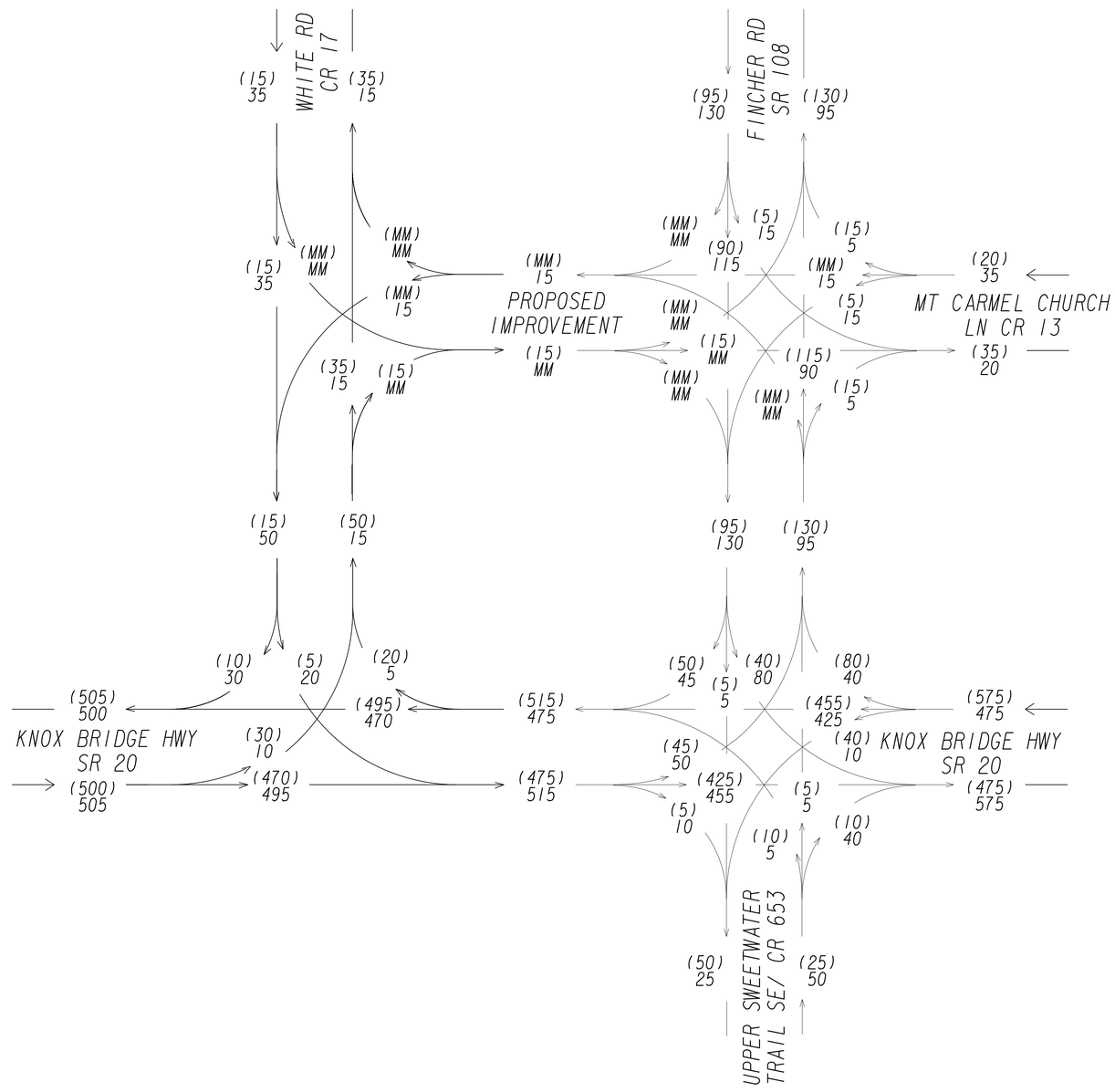
CHEROKEE COUNTY



STP00-0012-01(112) PI# 662650 SR 20 AT SR 108; CR 17/ WHITE RD AND CR 13/ MT CARMEL CHURCH LANE	2017 PM DHV = (000) 2017 AM DHV = 000 BUILD	CHEROKEE COUNTY	T = 6.5% SU = 3.5% COMB = 3%	REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PLANNING **TRAFFIC DIAGRAM** **AFE** **01/2014** DRAWING No. 10-3

12/14/2012 GPLN

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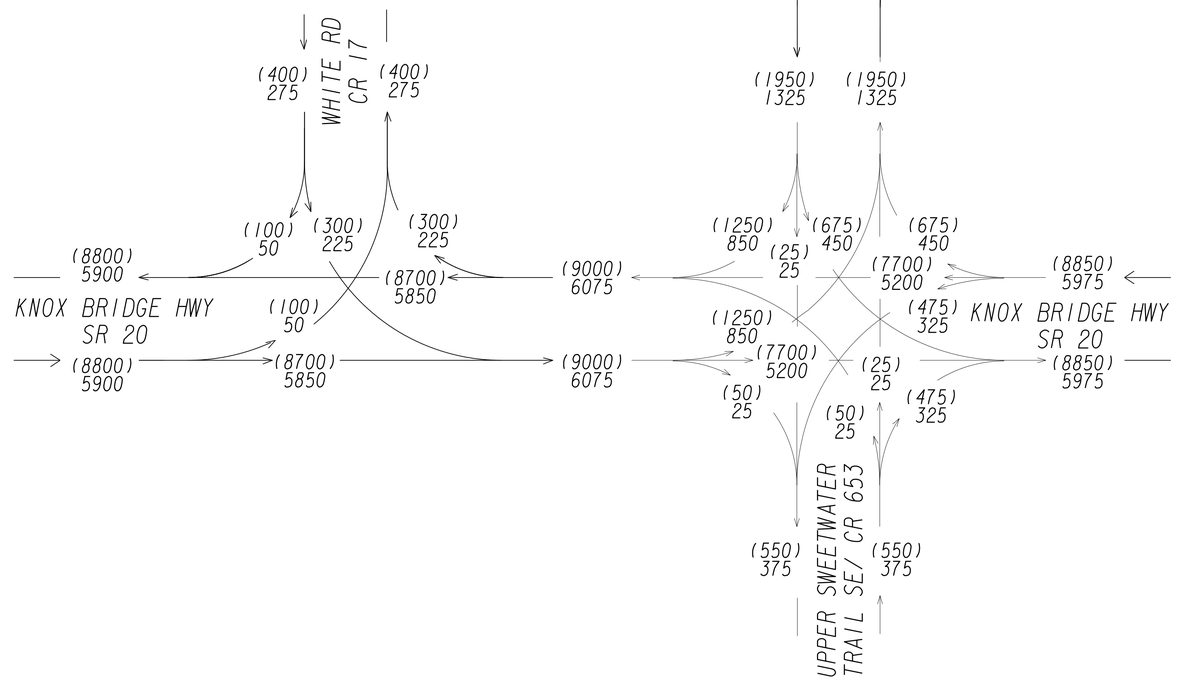
CHEROKEE COUNTY



STP00-0012-01(112)
PI# 662650
SR 20 AT SR 108;
CR 17/ WHITE RD AND
CR 13/ MT CARMEL CHURCH LANE

2037 ADT= (000)
2017 ADT= 000
NO BUILD

CHEROKEE COUNTY

24 HOUR T= 10%
SU= 5.5%
COMB= 4.5%

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING

TRAFFIC DIAGRAM
AFE
01/2014

DRAWING No. 10-4

12/14/2012 GPLN

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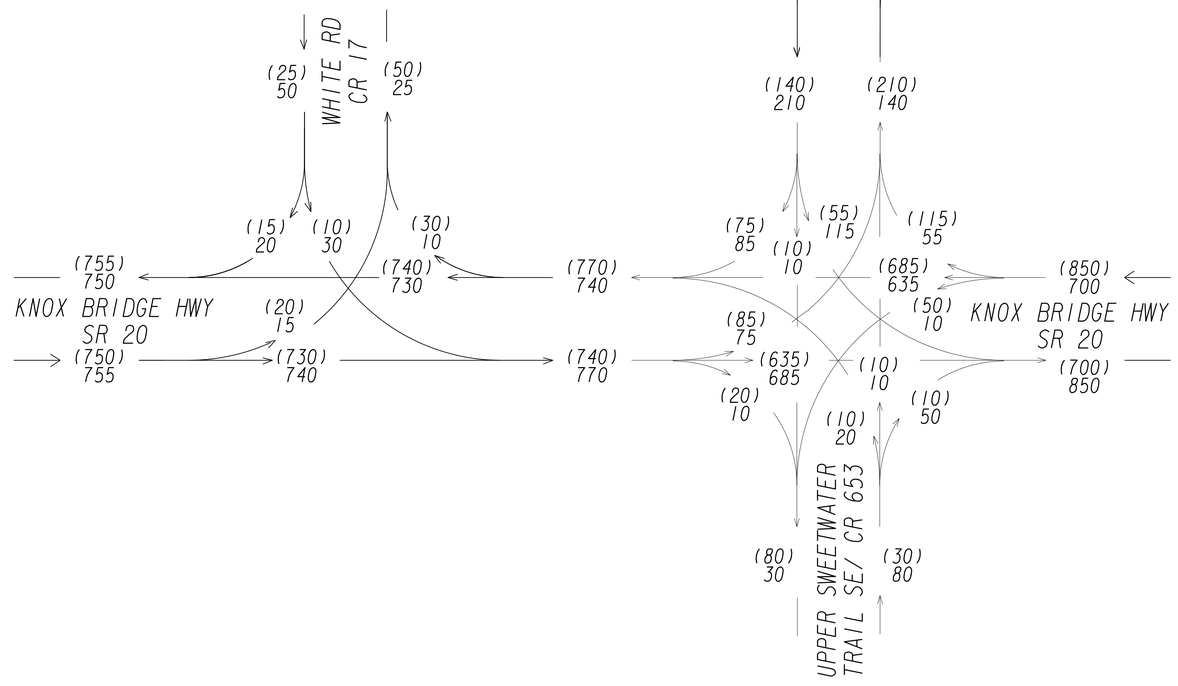
CHEROKEE COUNTY



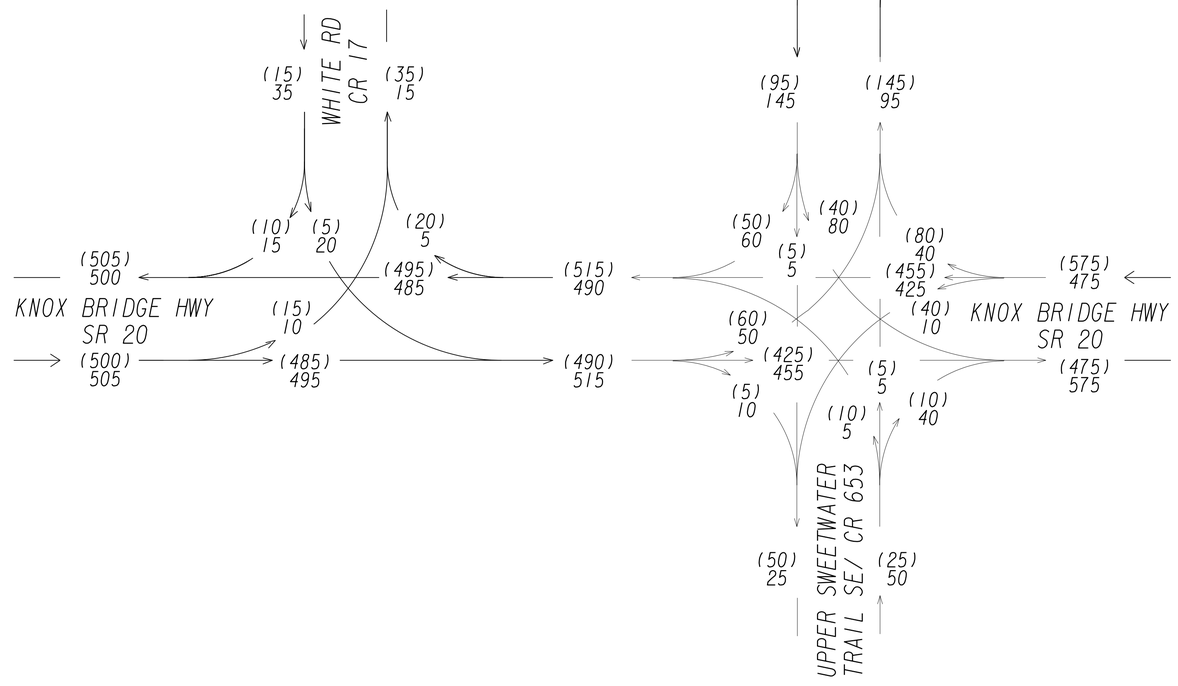
STP00-0012-01(112) PI# 662650 SR 20 AT SR 108; CR 17/ WHITE RD AND CR 13/ MT CARMEL CHURCH LANE	2037 PM DHV = (000) 2037 AM DHV = 000 NO BUILD	CHEROKEE COUNTY	T = 6.5% SU = 3.5% COMB = 3%	REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PLANNING **TRAFFIC DIAGRAM** **AFE** **01/2014** DRAWING No. 10-5

12/14/2012 GPLN

DATE: JAN/2014 10:07:13 AM	GPLOT-V8	C:\Users\sk1dd\Desktop\662650TRDG - Updated.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
AFE	gplotborder-v81-P0.tbl		GA	662650	6	8

CHEROKEE COUNTY

N



STP00-0012-01(112) PI# 662650 SR 20 AT SR 108; CR 17/ WHITE RD AND CR 13/ MT CARMEL CHURCH LANE	2017 PM DHV = (000) 2017 AM DHV = 000 NO BUILD	CHEROKEE COUNTY	T = 6.5% SU = 3.5% COMB = 3%	REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PLANNING **TRAFFIC DIAGRAM** **AFE** **01/2014** DRAWING No. 10-6

12/14/2012 GPLN

DATE 01/2014 10:07:57 AM	GPLOT-V8	C:\Users\sk1dd\Desktop\662650TRDG - Updated.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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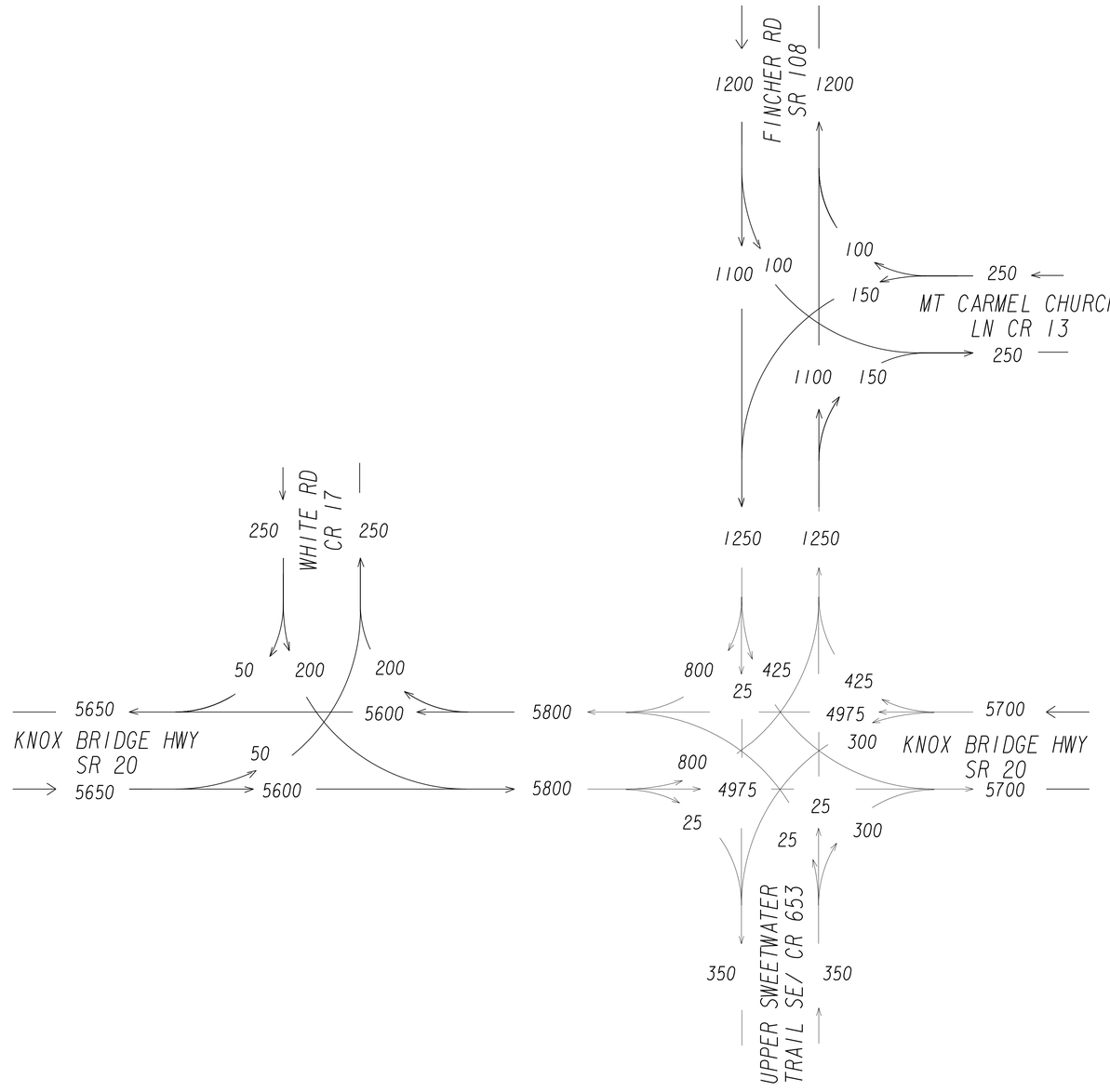
CHEROKEE COUNTY



STP00-0012-01(112)
PI# 662650
SR 20 AT SR 108;
CR 17/ WHITE RD AND
CR 13/ MT CARMEL CHURCH LANE

2013 EXISTING ADT

CHEROKEE COUNTY

24 HOUR T= 10%
SU= 5.5%
COMB= 4.5%

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING

TRAFFIC DIAGRAM
AFE
1/14

DRAWING No. 10-7

12/14/2012 GPLN

DATE: JAN/2014 10:08:38 AM	GPLOT-V8	C:\Users\sk1dd\Desktop\662650TRDG - Updated.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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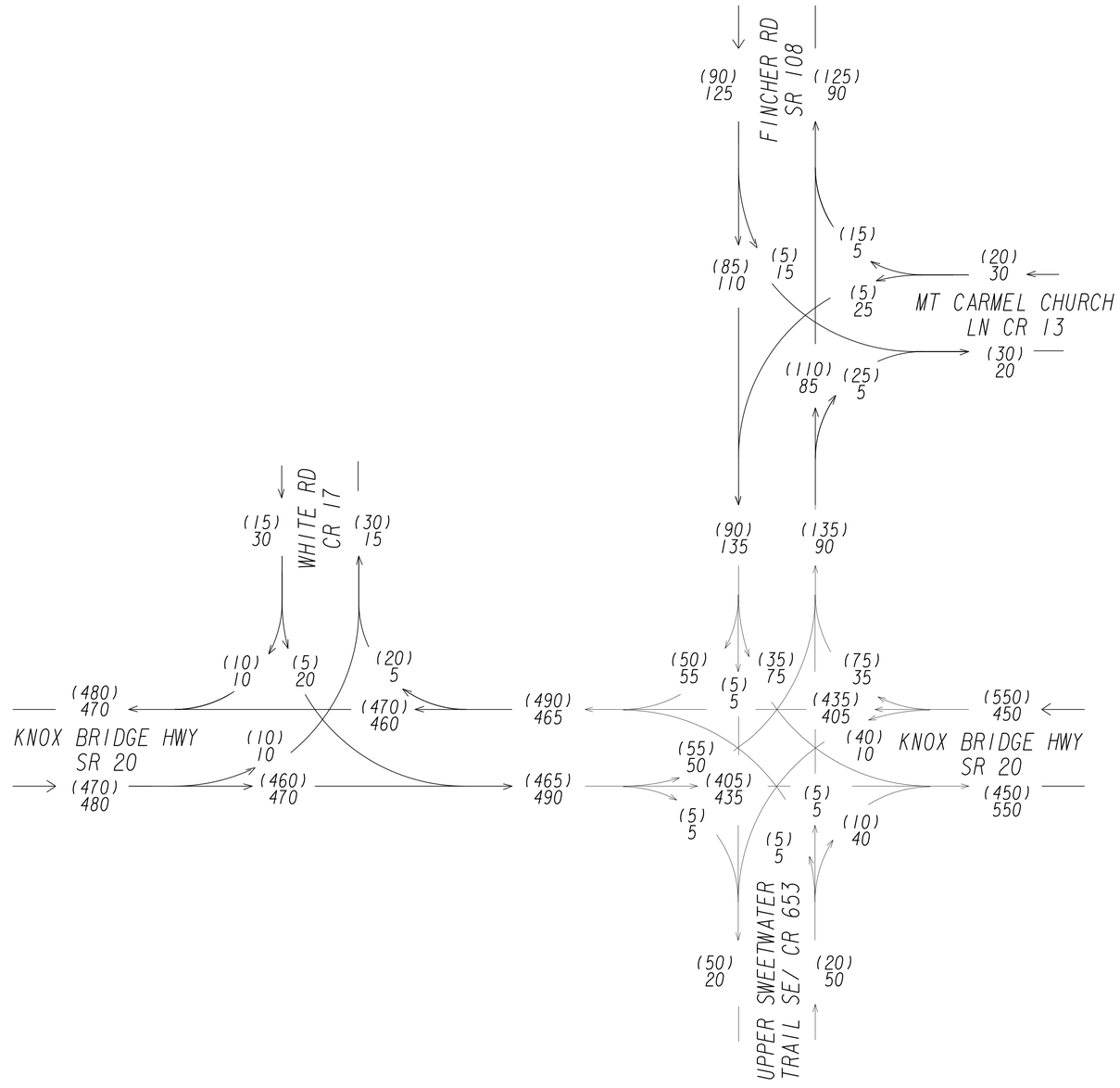
CHEROKEE COUNTY



STP00-0012-01(112)
PI# 662650
SR 20 AT SR 108;
CR 17/ WHITE RD AND
CR 13/ MT CARMEL CHURCH LANE

2013 EXISTING DHV

CHEROKEE COUNTY

T= 6.5%
SU= 3.5%
COMB= 3%

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING

TRAFFIC DIAGRAM
AFE
01/2014

DRAWING No. 10-8

12/14/2012 GPLN

2/7/2014 sk1dd	Fri Feb 07 09:31:43 2014	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Layout1.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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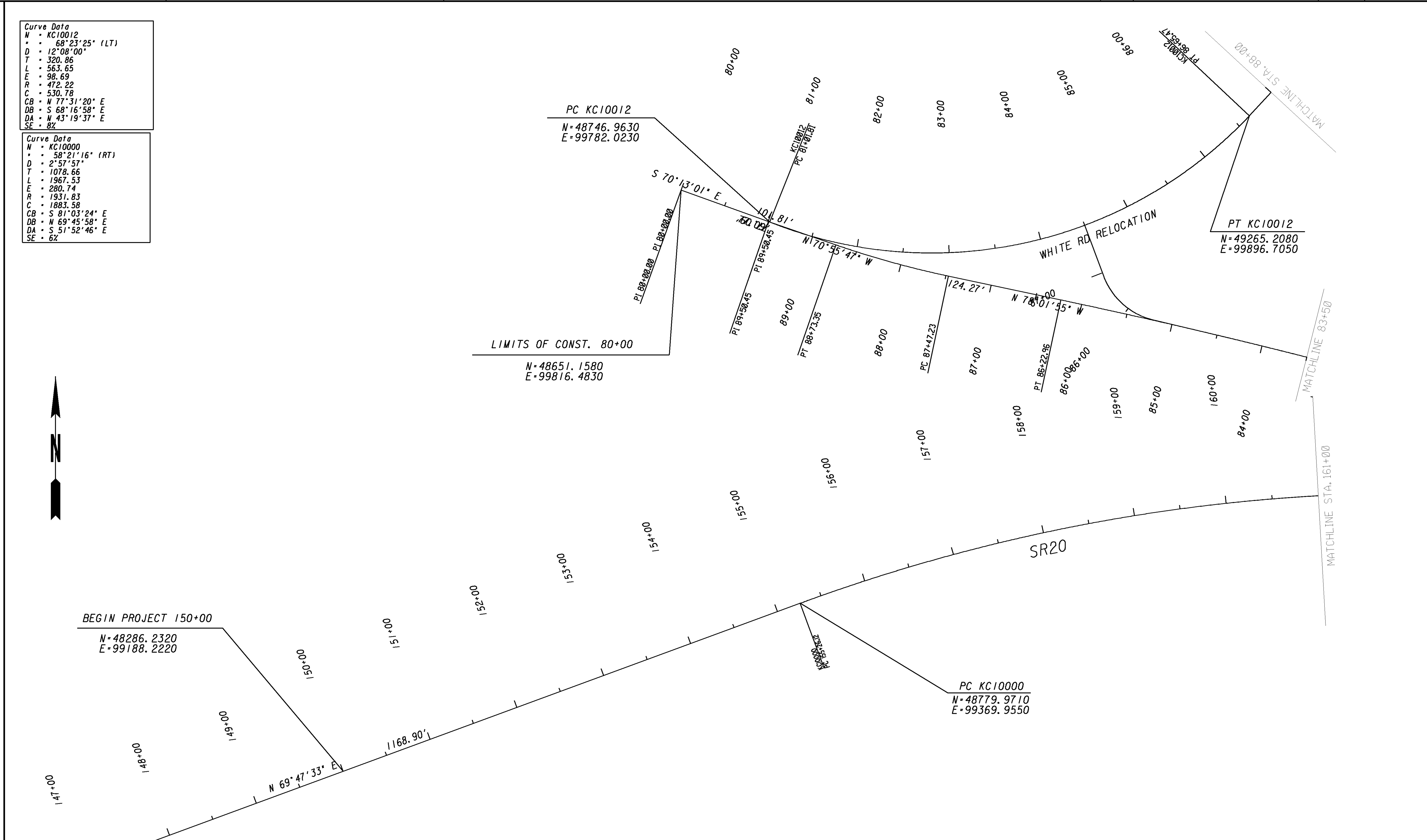

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX

CONSTRUCTION LAYOUT

DRAWING No.
11-1

2/7/2014 skldd	Fri Feb 07 09:31:43 2014	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Layout2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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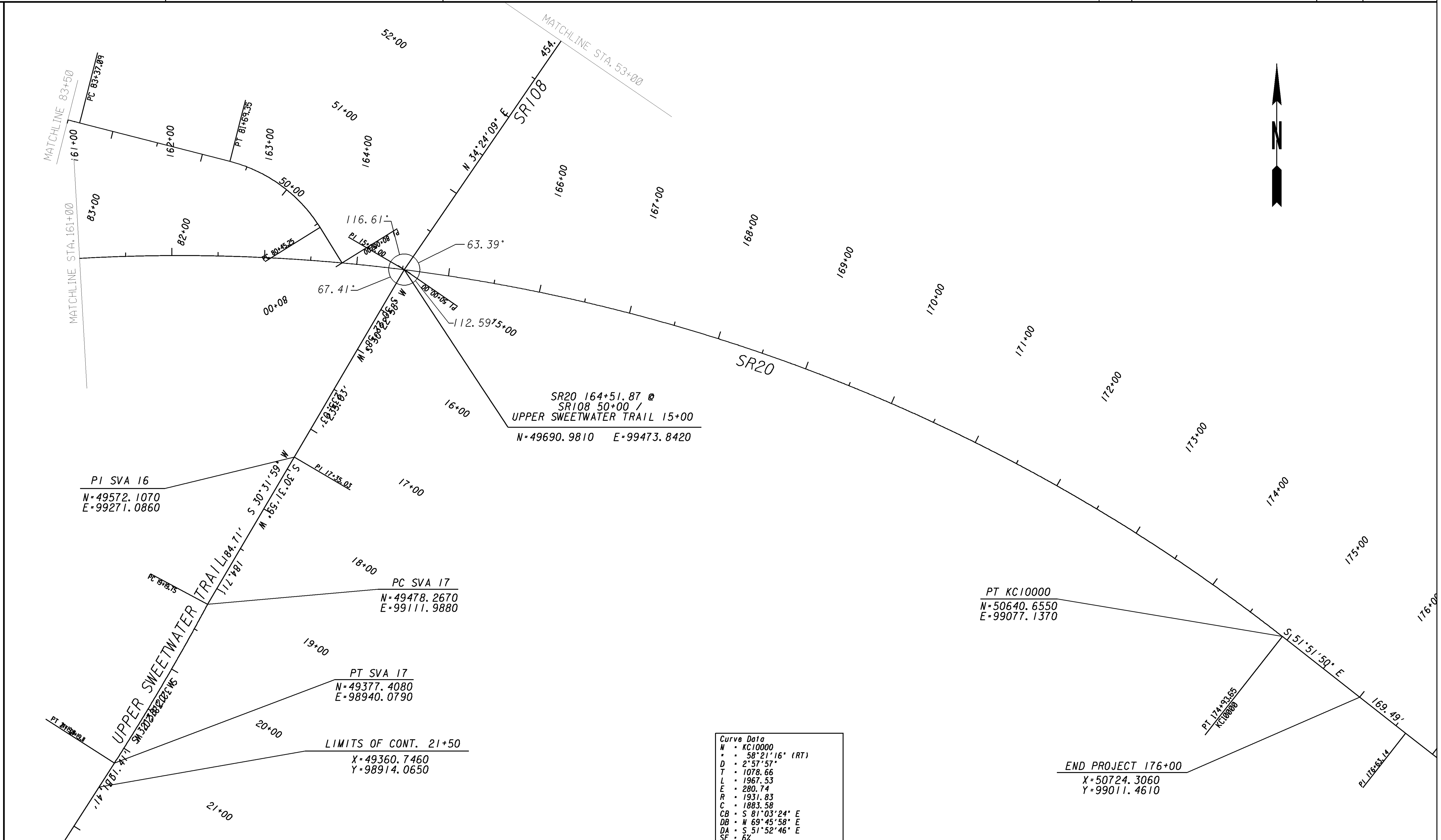


1/5/2009 GPLN

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

SCALE IN FEET
0 50 100 200

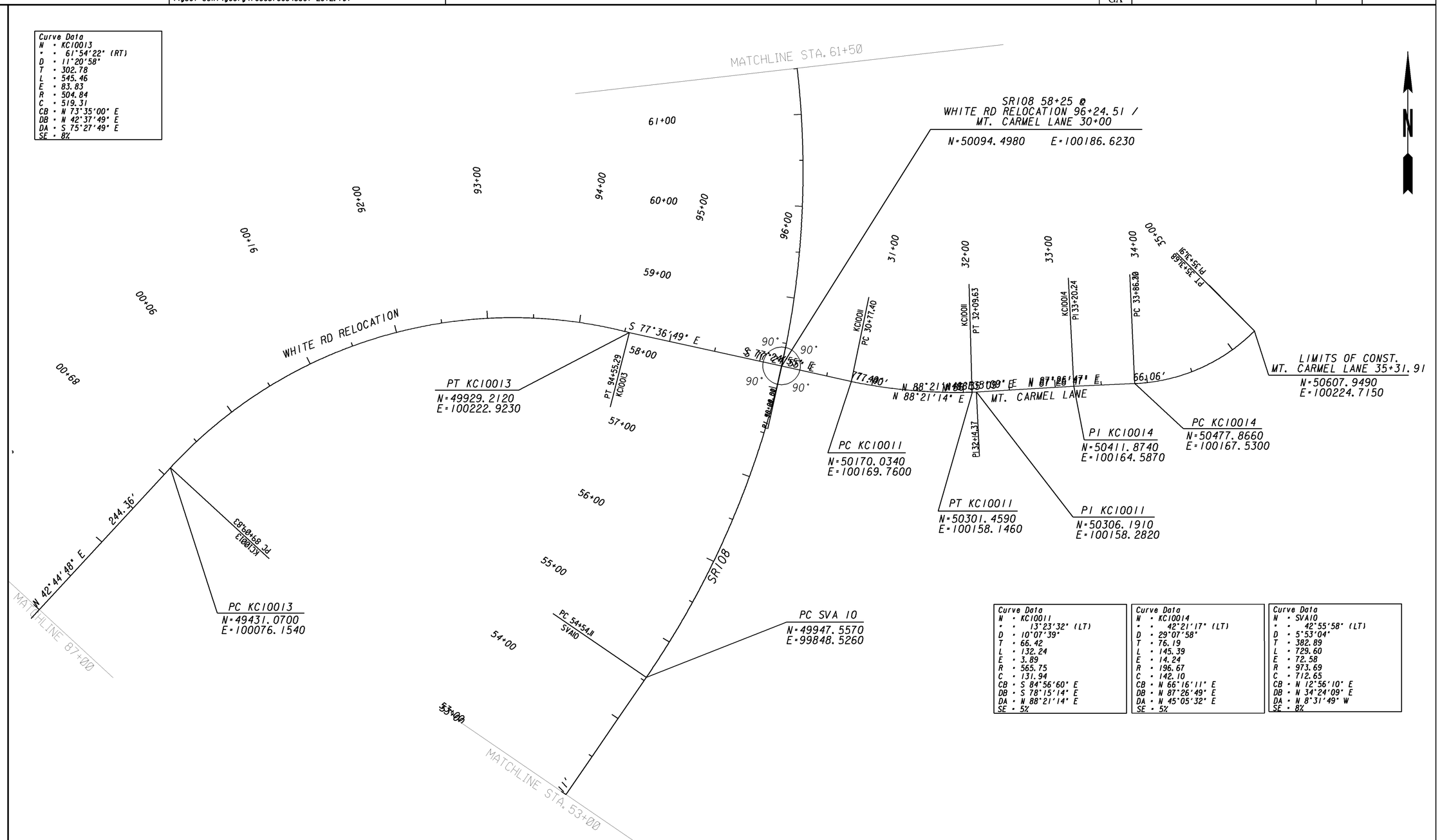
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX

CONSTRUCTION LAYOUT

DRAWING No.
11-2

2/7/2014 Fri Feb 07 09:31:41 2014 skidd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Layout3.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



Curve Data	Curve Data	Curve Data
N • KC10011	N • KC10014	N • SVA10
• 13°23'32" (LT)	• 42°21'17" (LT)	• 42°55'58" (LT)
D • 10°07'39"	D • 29°07'58"	D • 5°53'04"
T • 66.42	T • 76.19	T • 382.89
L • 132.24	L • 145.39	L • 729.60
E • 3.89	E • 14.24	E • 72.58
R • 565.75	R • 196.67	R • 973.69
C • 131.94	C • 142.10	C • 712.65
CB • S 84°56'60" E	CB • N 66°16'11" E	CB • N 12°56'10" E
DB • S 78°15'14" E	DB • N 87°26'49" E	DB • N 34°24'09" E
DA • N 88°21'14" E	DA • N 45°05'32" E	DA • N 8°31'49" W
SE • 5%	SE • 5%	SE • 8%

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX

CONSTRUCTION LAYOUT

DRAWING NO. 11-3

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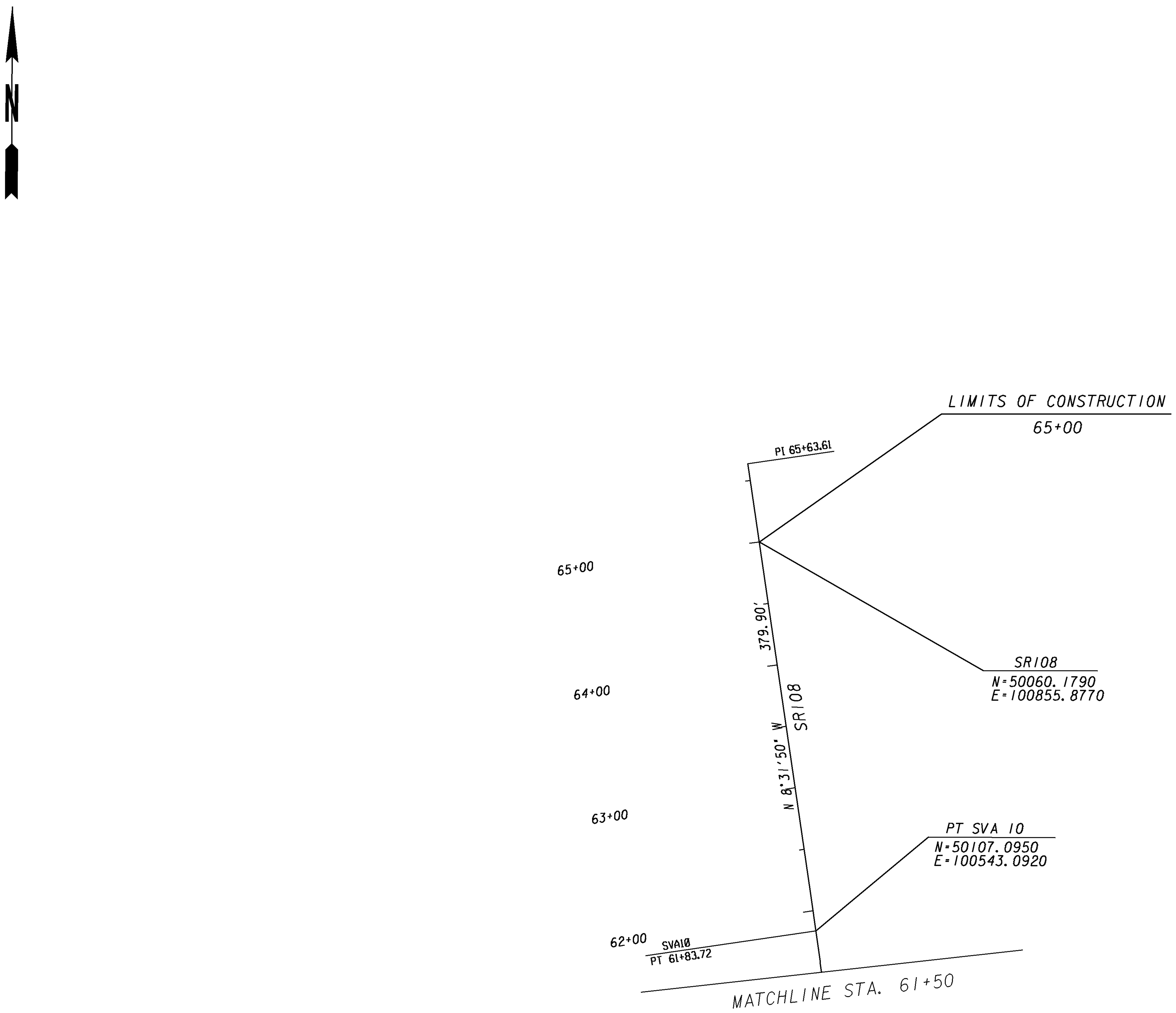


GEORGIA
DEPARTMENT
OF
TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX

CONSTRUCTION LAYOUT

DRAWING No.
11-4

1/5/2009 GPLN

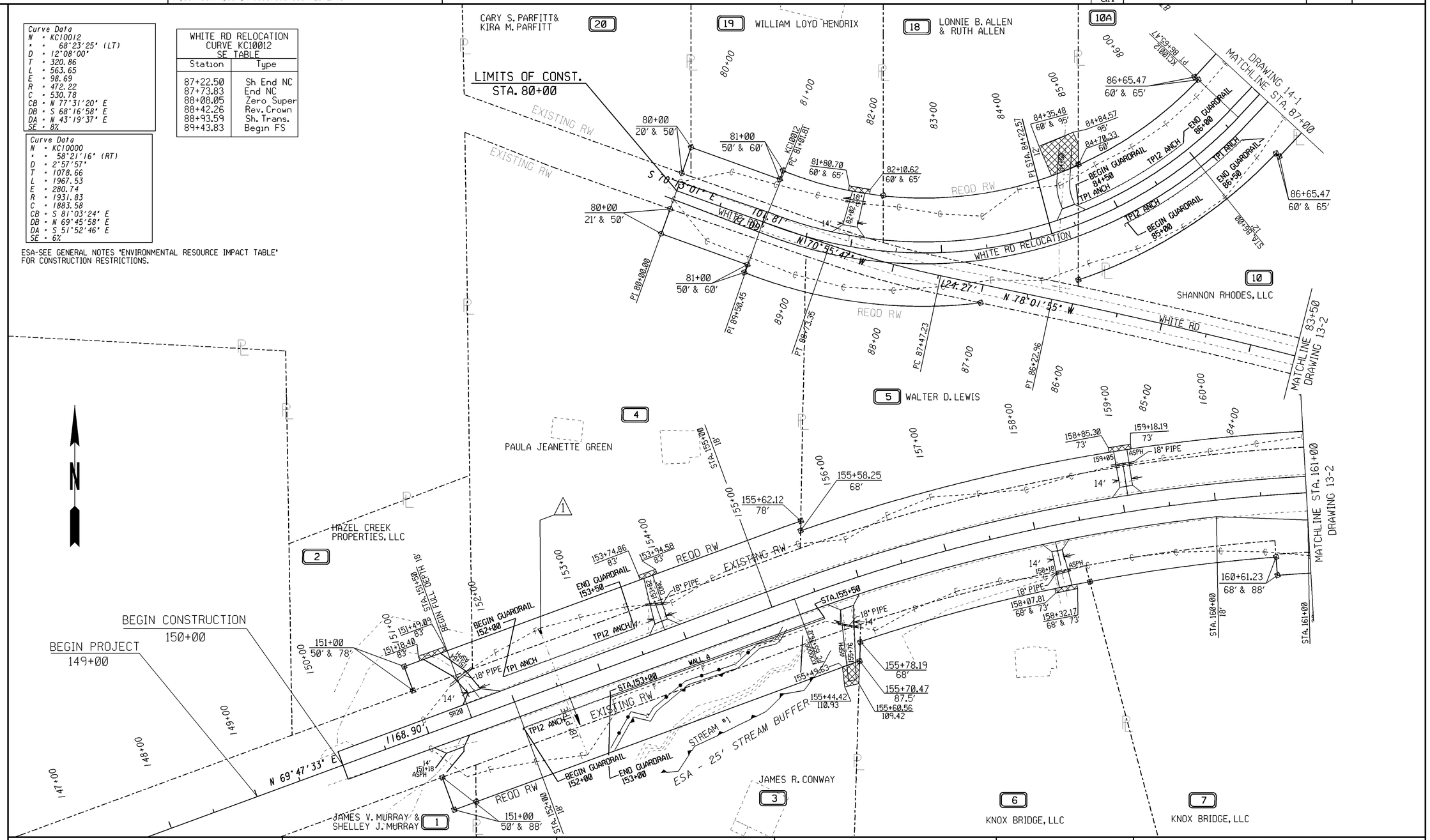
Curve Data
N = KC10012
" = " = 68°23'25" (LT)
D = 12°08'00"
T = 320.86
L = 563.65
E = 98.69
R = 472.22
C = 530.78
CB = N 77°31'20" E
DB = S 68°16'58" E
DA = N 43°19'37" E
SE = 8%

Curve Data
N = KC10000
" = " = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

ESA-SEE GENERAL NOTES 'ENVIRONMENTAL RESOURCE IMPACT TABLE' FOR CONSTRUCTION RESTRICTIONS.

WHITE RD RELOCATION CURVE KC10012 SE TABLE

Station	Type
87+22.50	Sh End NC
87+73.83	End NC
88+08.05	Zero Super
88+42.26	Rev. Crown
88+93.59	Sh. Trans.
89+43.83	Begin FS



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

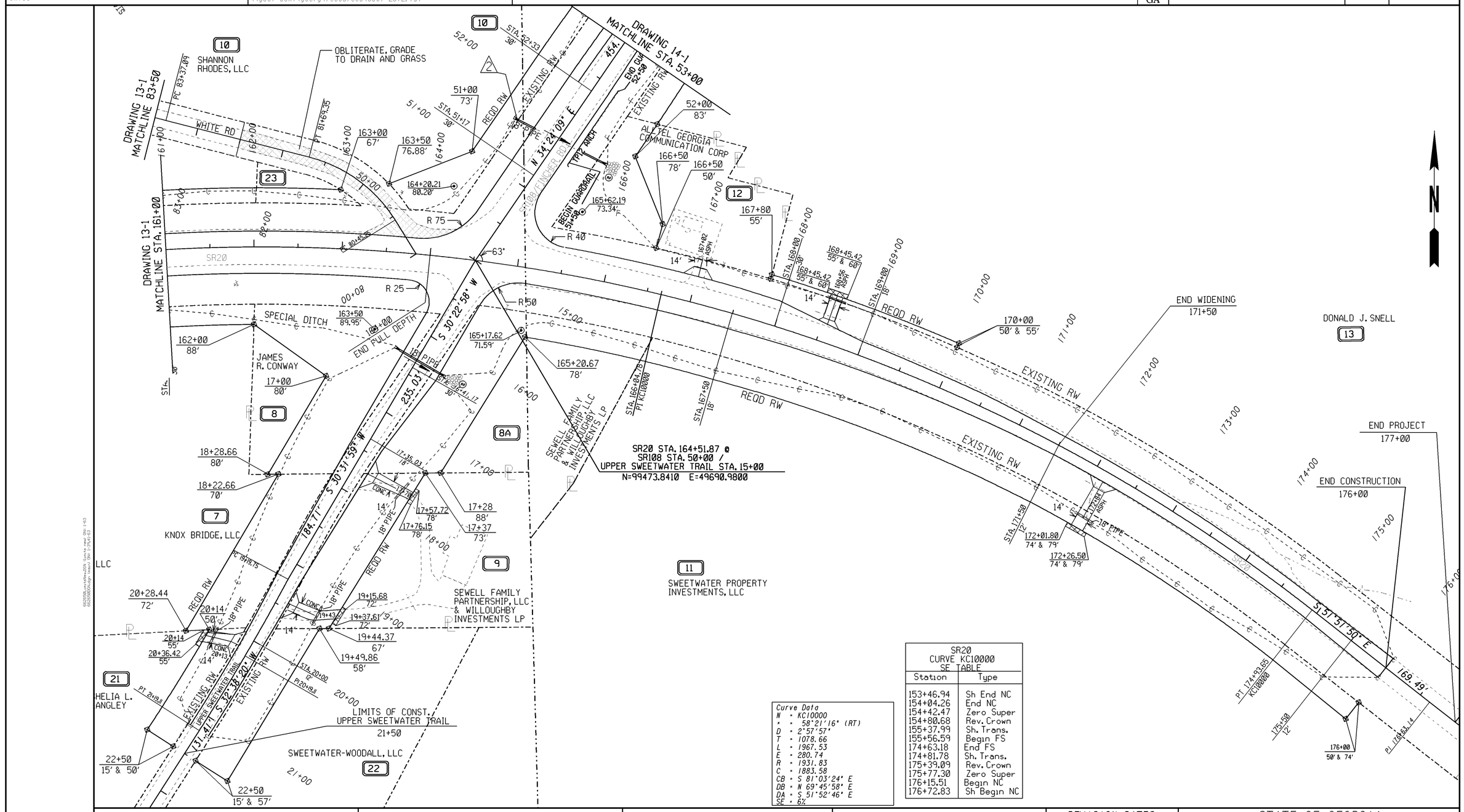
MAINLINE PLAN

SR20 & WHITE RD

DRAWING NO. 13-1

3/1/2007 GPLN

2/7/2014 Fri Feb 07 09:27:53 2014 skldd	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650CP02.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



SR20 CURVE KC10000 SE TABLE	
Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

Curve Data	
N	KC10000
∗	58°21'16" (RT)
D	2°57'57"
T	1078.66
L	1967.53
E	280.74
R	1931.83
C	1883.58
CB	S 81°03'24" E
DB	N 69°45'58" E
DA	S 51°52'46" E
SE	6%

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

OBLITERATE, GRADE TO DRAIN AND GRASS

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

MAINLINE PLAN

SR20 & SR108
UPPER SWEETWATER TRAIL

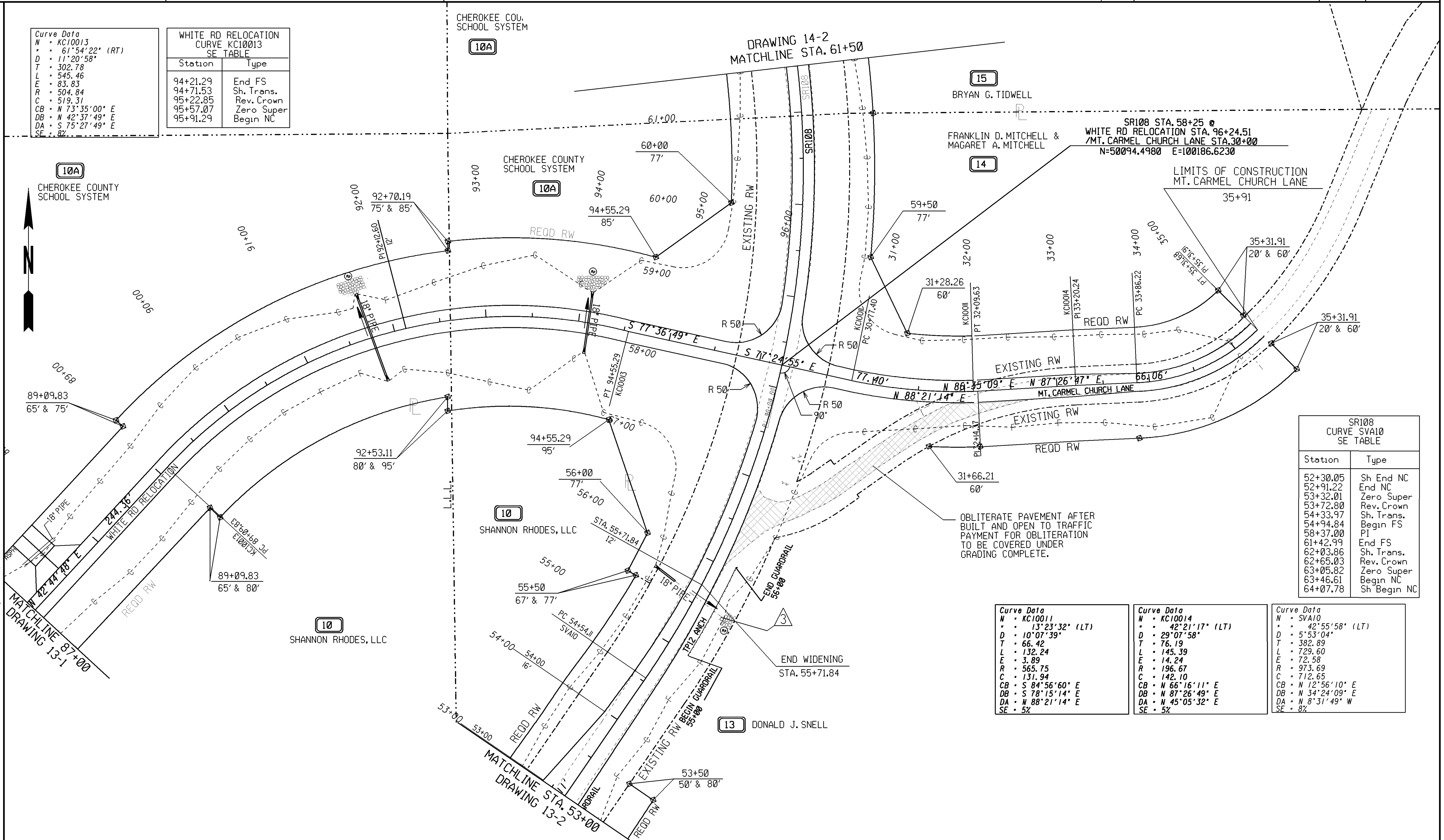
DRAWING NO. 13-2

3/1/2007 GPLN

Curve Data
N = KC10013
Δ = 61°54'22" (RT)
D = 11°20'58"
T = 302.78
L = 545.46
E = 83.83
R = 504.84
C = 519.31
CB = N 73°35'00" E
DB = N 42°37'49" E
DA = S 75°27'49" E
SE = 8%

WHITE RD RELOCATION
CURVE KC10013
SE TABLE

Station	Type
94+21.29	End FS
94+71.53	Sh. Trans.
95+22.85	Rev. Crown
95+57.07	Zero Super
95+91.29	Begin NC


DRAWING 14-2
MATCHLINE STA. 61+50
CHEROKEE COU. SCHOOL SYSTEM
10A
CHEROKEE COUNTY SCHOOL SYSTEM
15
BRYAN G. TIDWELL
FRANKLIN D. MITCHELL & MAGARET A. MITCHELL
14
SR108 STA. 58+25 @
WHITE RD RELOCATION STA. 96+24.51
/MT. CARMEL CHURCH LANE STA.30+00
N=50094.4980 E=100186.6230
LIMITS OF CONSTRUCTION
MT. CARMEL CHURCH LANE
35+91
35+31.91
20' & 60'
N
REQD RW
EXISTING RW
SR108
WHITE RD RELOCATION
MT. CARMEL CHURCH LANE
S 77°36'49" E
S 77°24'55" E
N 88°35'09" E
N 87°26'47" E
N 88°21'14" E
244.36'
N 42°44'48" E
77.40'
66.06'
92+70.19
75' & 85'
94+55.29
85'
60+00
77'
59+50
77'
31+28.26
60'
89+09.83
65' & 75'
92+53.11
80' & 95'
94+55.29
95'
56+00
77'
STA. 55+71.84
12'
55+50
67' & 77'
89+09.83
65' & 80'
31+66.21
60'
53+50
50' & 80'
R 50
90°
18" PIPE
END GUARDRAIL 56+00
BEGIN GUARDRAIL 55+00
END WIDENING
STA. 55+71.84
10
SHANNON RHODES, LLC
13
DONALD J. SNELL
MATCHLINE 87+00
DRAWING 13-1
MATCHLINE STA. 53+00
DRAWING 13-2
OBLITERATE PAVEMENT AFTER BUILT AND OPEN TO TRAFFIC
PAYMENT FOR OBLITERATION TO BE COVERED UNDER GRADING COMPLETE.

SR108
CURVE SVA10
SE TABLE

Station	Type
52+30.05	Sh End NC
52+91.22	End NC
53+32.01	Zero Super
53+72.80	Rev. Crown
54+33.97	Sh. Trans.
54+94.84	Begin FS
58+37.00	PI
61+42.99	End FS
62+03.86	Sh. Trans.
62+65.03	Rev. Crown
63+05.82	Zero Super
63+46.61	Begin NC
64+07.78	Sh Begin NC

Curve Data
N = KC10011
Δ = 13°23'32" (LT)
D = 10°07'39"
T = 66.42
L = 132.24
E = 3.89
R = 565.75
C = 131.94
CB = S 84°56'60" E
DB = S 78°15'14" E
DA = N 88°21'14" E
SE = 5%

Curve Data
N = KC10014
Δ = 42°21'17" (LT)
D = 29°07'58"
T = 76.19
L = 145.39
E = 14.24
R = 196.67
C = 142.10
CB = N 66°16'11" E
DB = N 87°26'49" E
DA = N 45°05'32" E
SE = 5%

Curve Data
N = SVA10
Δ = 42°55'58" (LT)
D = 5°53'04"
T = 382.89
L = 729.60
E = 72.58
R = 973.69
C = 712.65
CB = N 12°56'10" E
DB = N 34°24'09" E
DA = N 8°31'49" W
SE = 8%

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS............BLA
END LIMIT OF ACCESS..............ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: D6 ROAD DESIGN

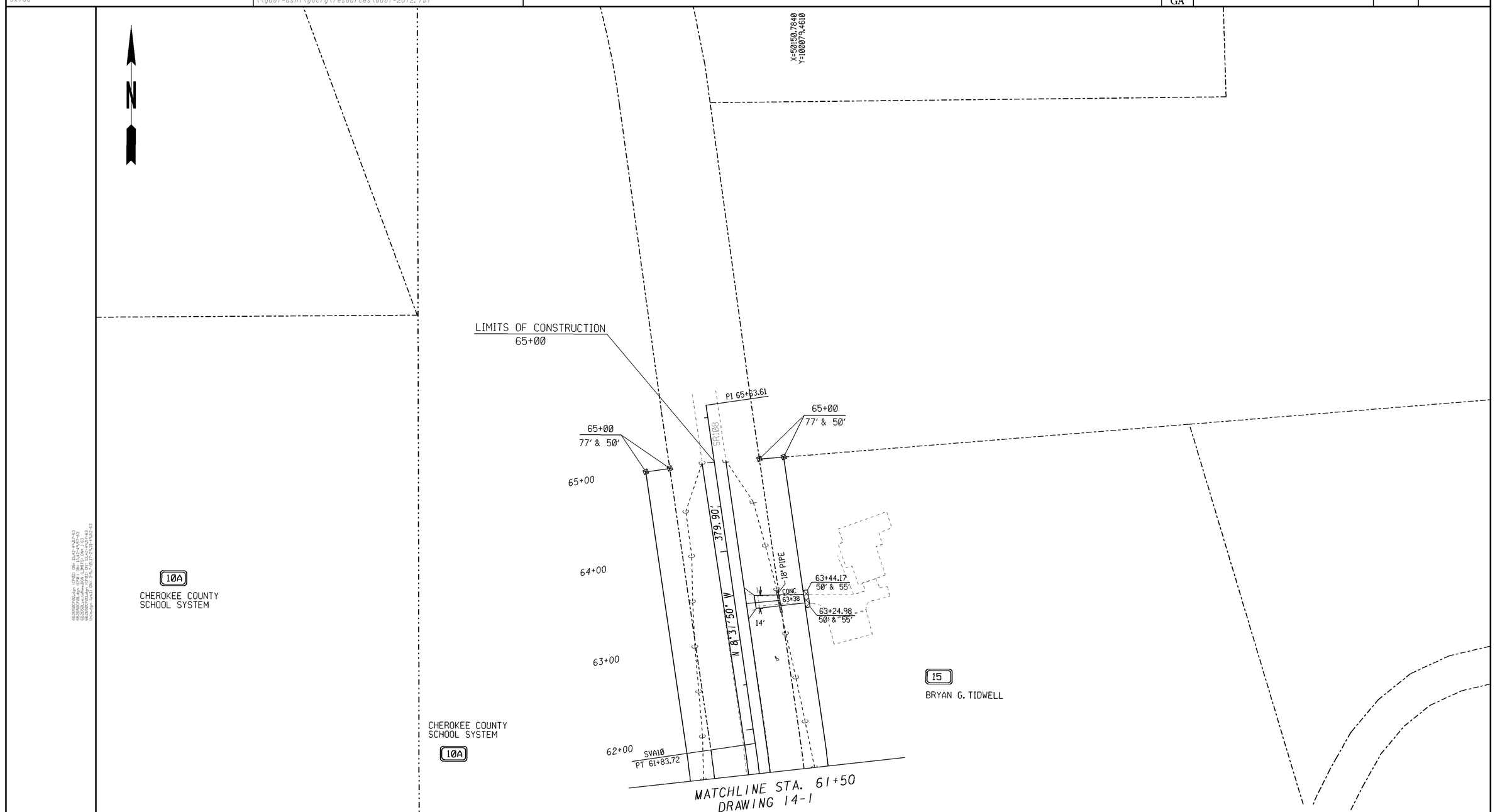
CROSSROAD PLAN

SR108
WHITE RD

DRAWING No.
14-01

3/1/2007 GPLN

2/7/2014 Fri Feb 07 09:27:55 2014 skldd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650CP04.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

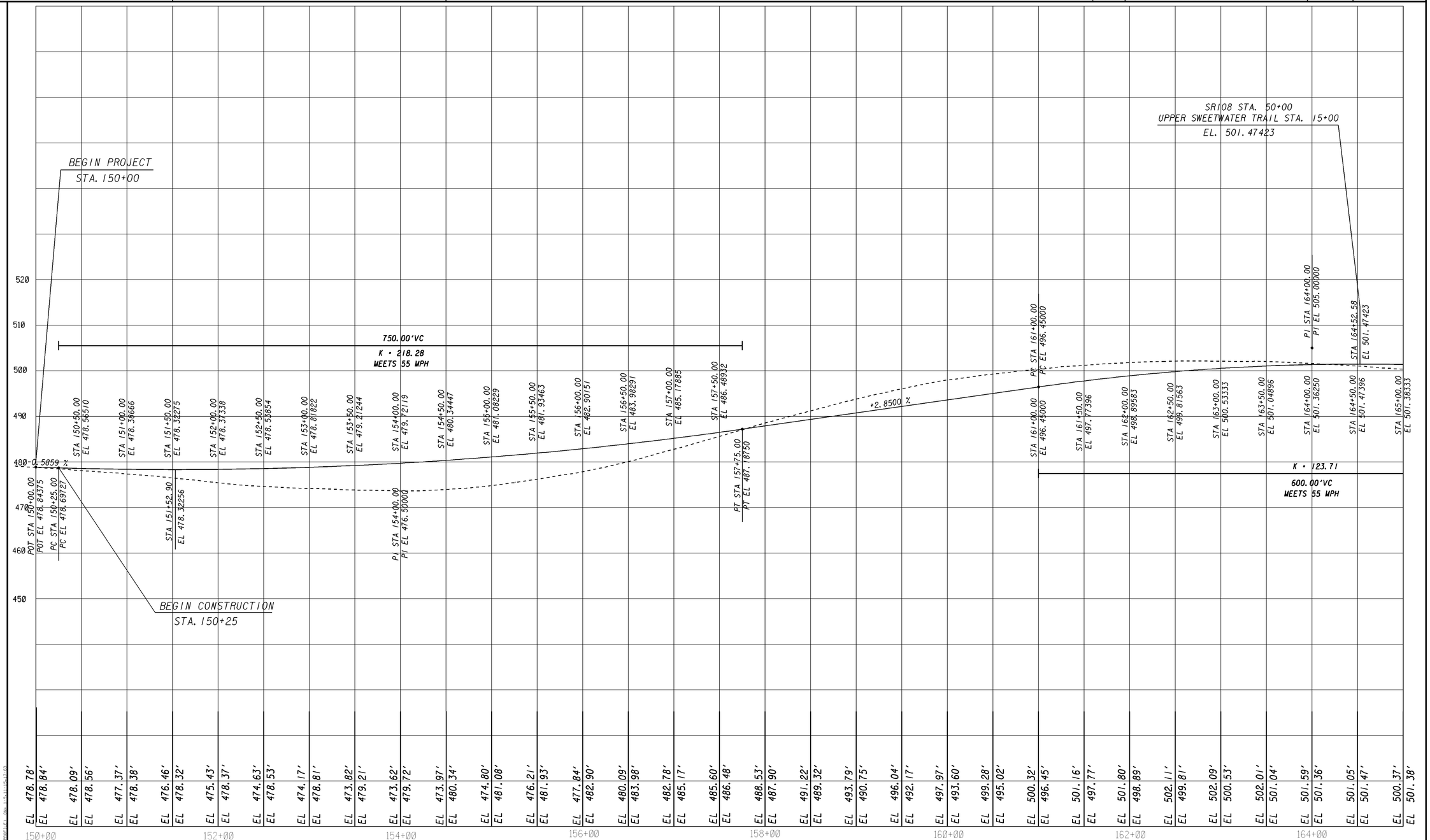
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CROSSROAD PLAN

SR108

DRAWING NO. 14-02

				STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Fri Feb 07 09:43:01 2014 skldd	Fri Feb 07 09:43:01 2014	\\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\ProfileSR20TRY.DGN	GA	STP00-0012-01(112)		



GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: DISTRICT SIX ROAD DESIGN

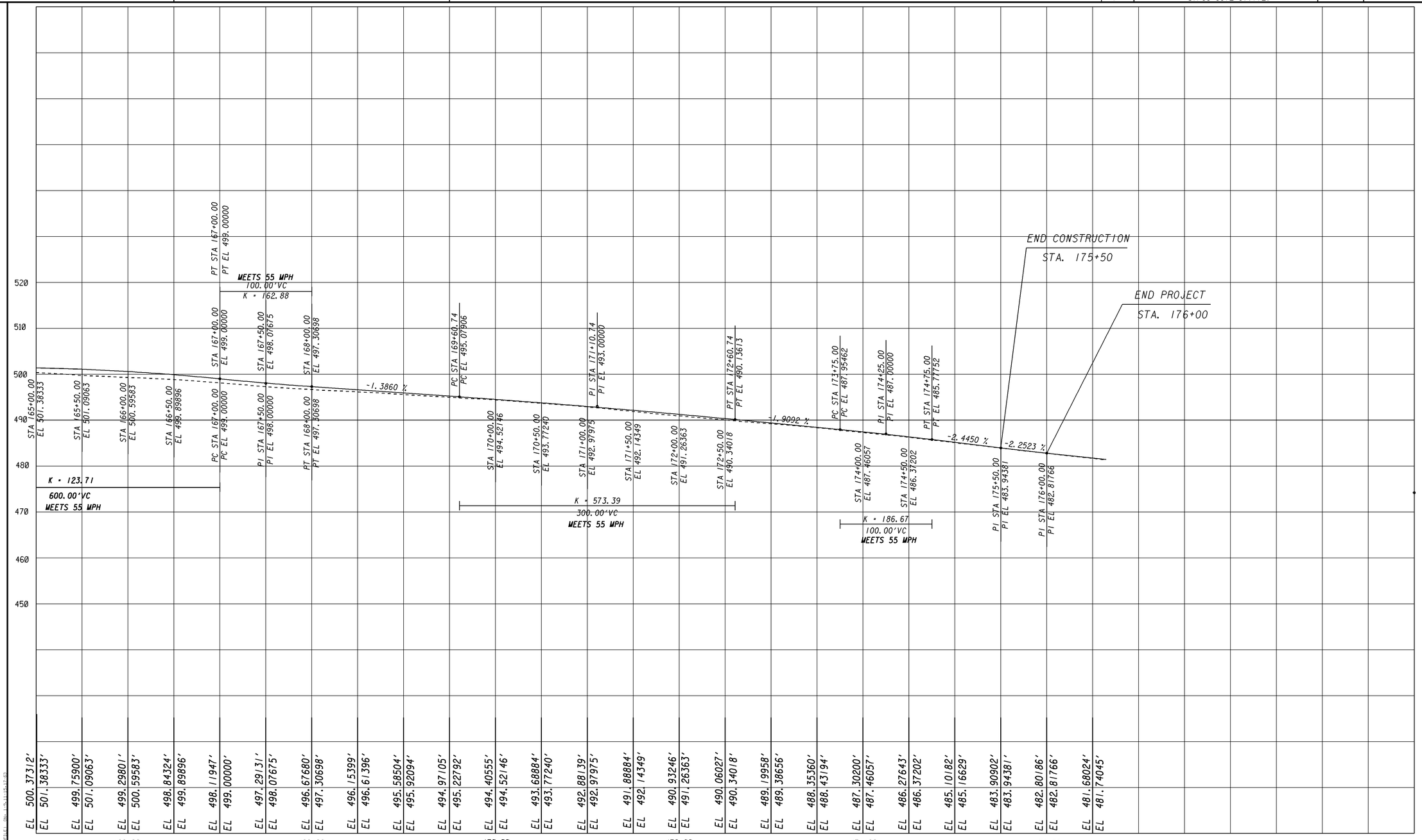
MAINLINE PROFILE

SR20

DRAWING No.
15-1

GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP00-0012-01(112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

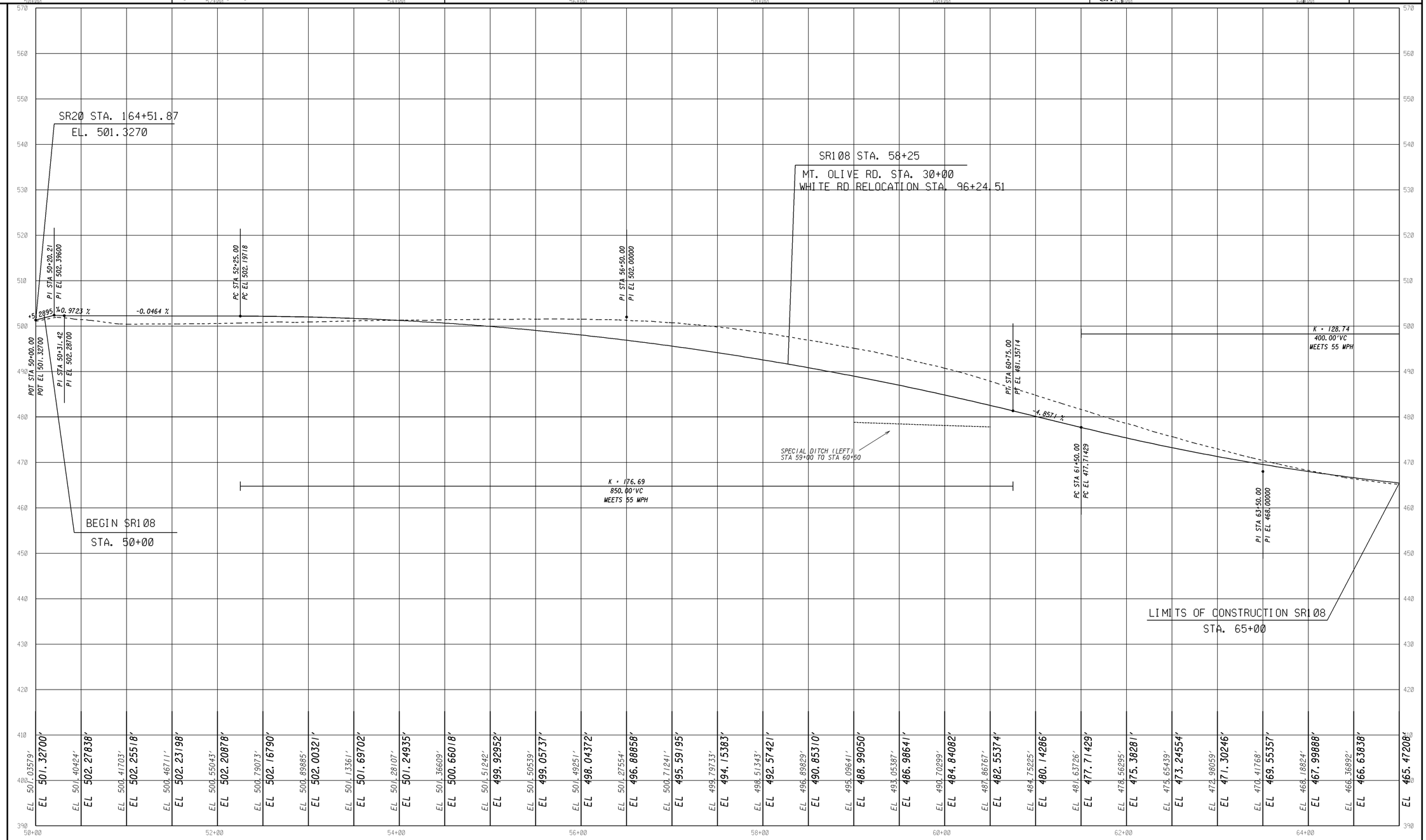
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

MAINLINE PROFILE

SR20

DRAWING No. 15-2

GRIEGG



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

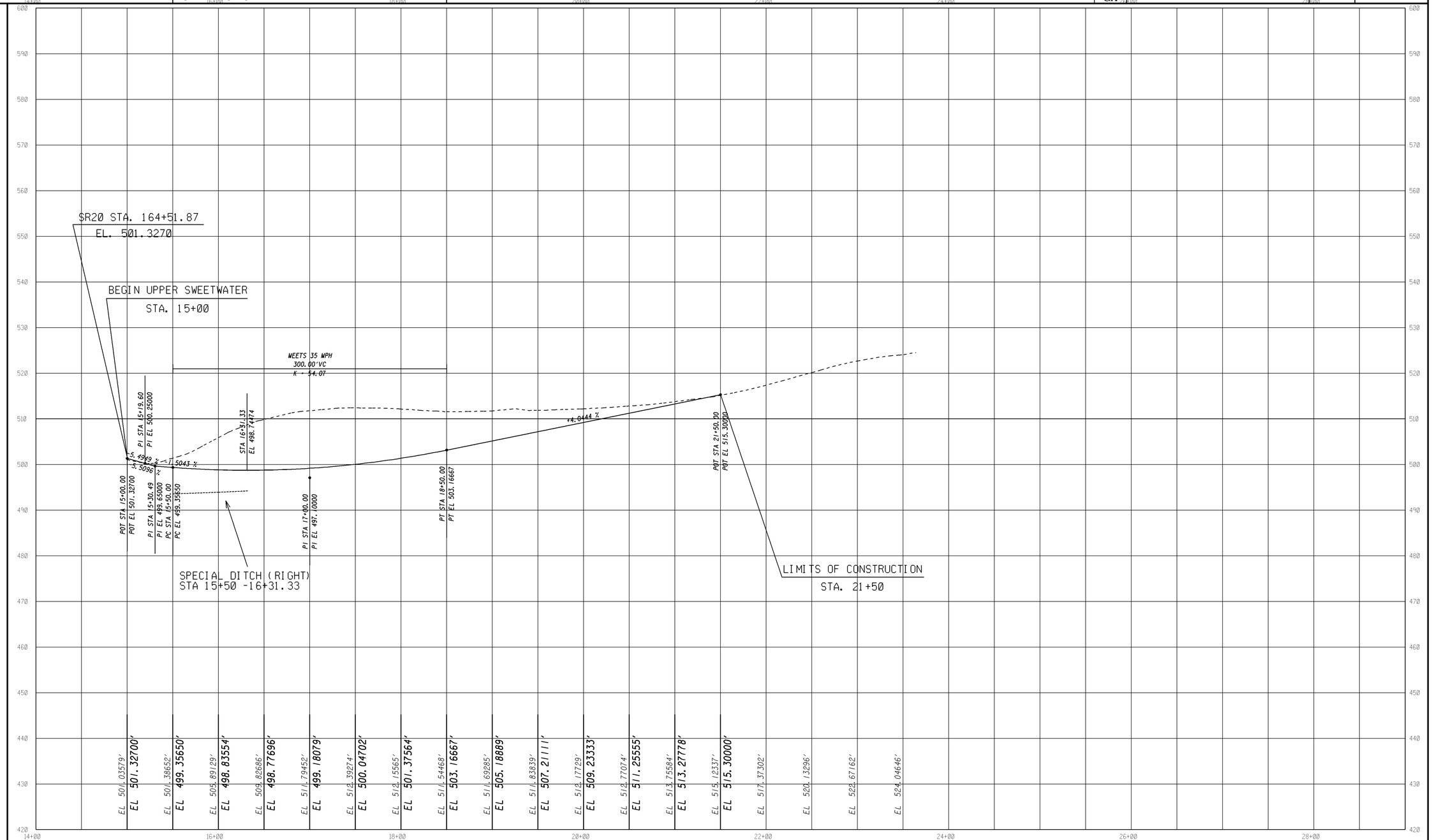
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CROSSROAD PROFILE

SR108

DRAWING No. 16-1

GRIEOG



GRIEDG

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

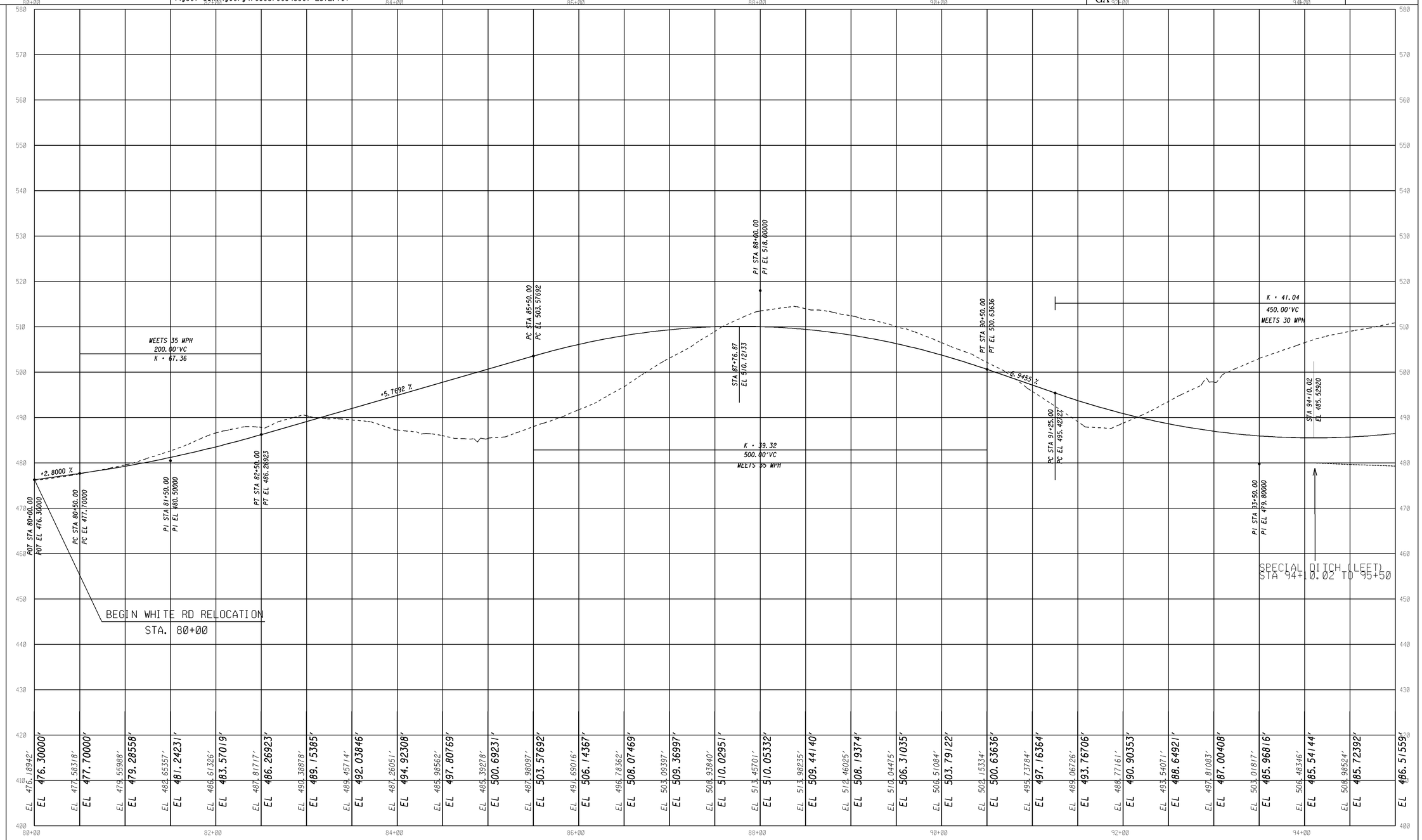
OFFICE:

CROSSROAD PROFILE

UPPER SWEETWATER TRAIL

DRAWING No. 16-2

Fri Feb 07 09:31:48 2014 skldd	Fri Feb 07 09:31:48 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	c:\dgn\662650\662650PROFILEWHITERD.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

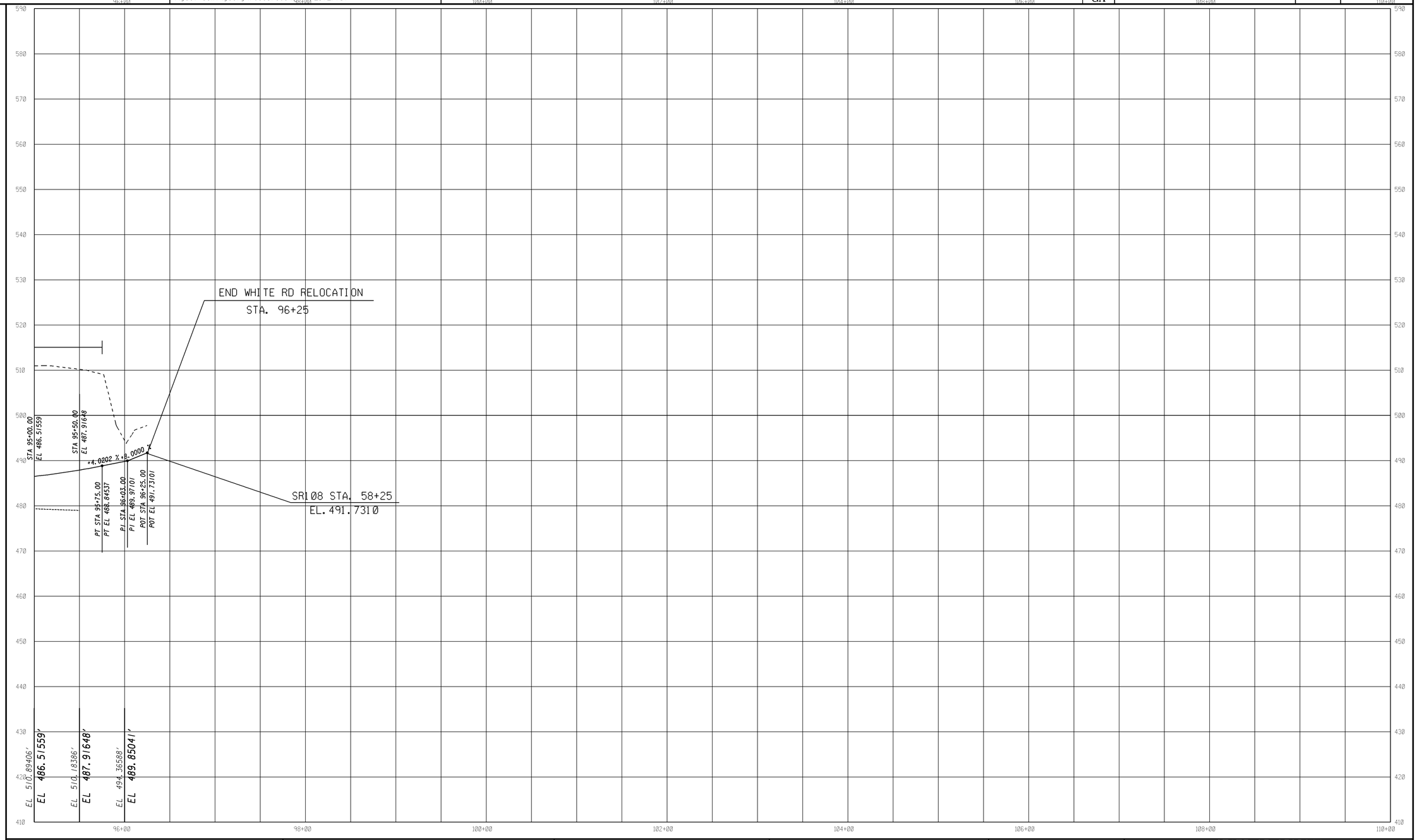
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CROSSROAD PROFILE

WHITE RD RELOCATION

DRAWING No. 16-3

GRIEDG



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

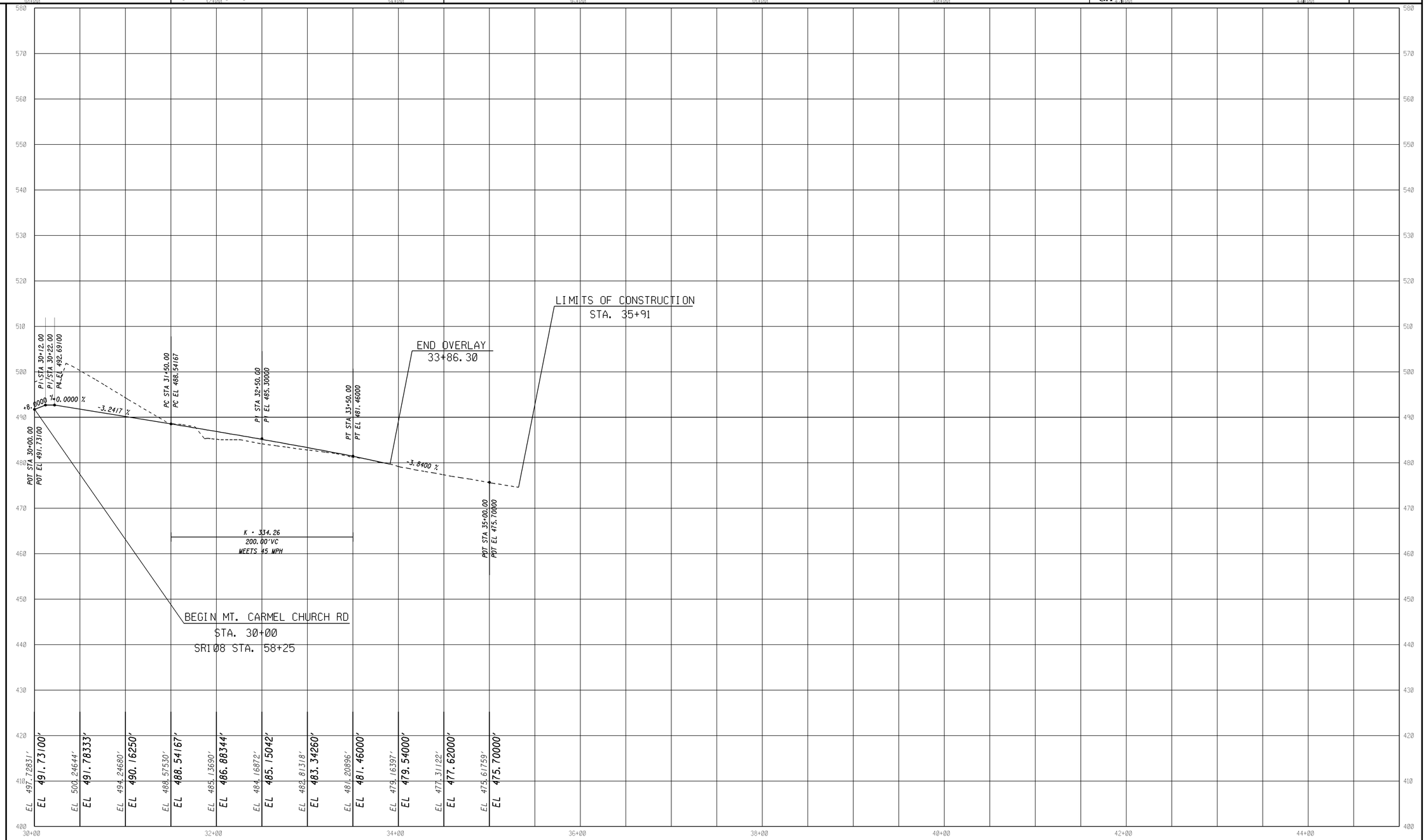
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CROSSROAD PROFILE

WHITE RD RELOCATION

DRAWING NO. 16-4

GRIEDG



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

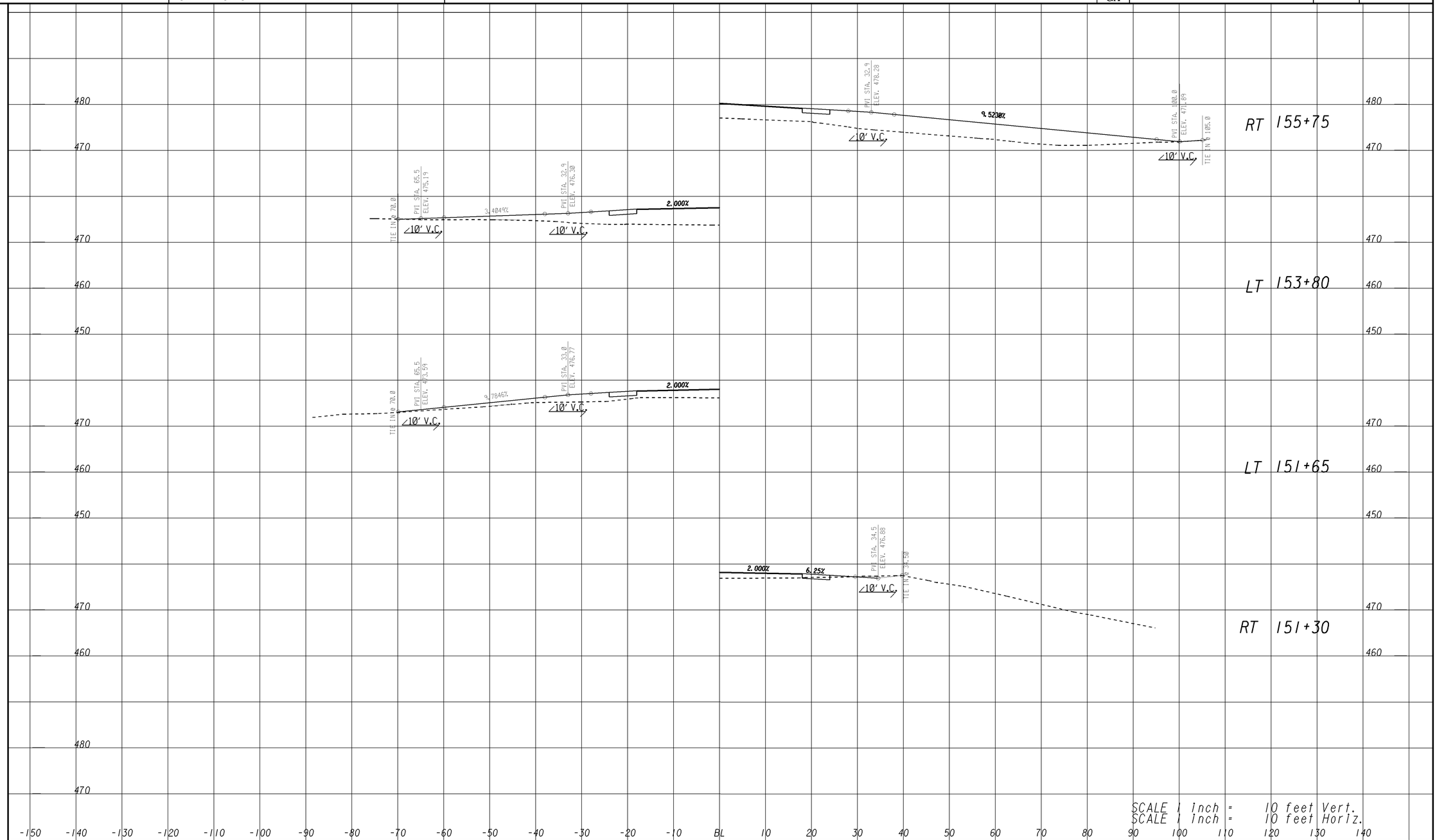
CROSSROAD PROFILE

MT. CARMEL RD

DRAWING No. 16-5

GRIEDG

Fri Feb 07 09:39:19 2014 skldd	Fri Feb 07 09:39:19 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20DRIVES.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

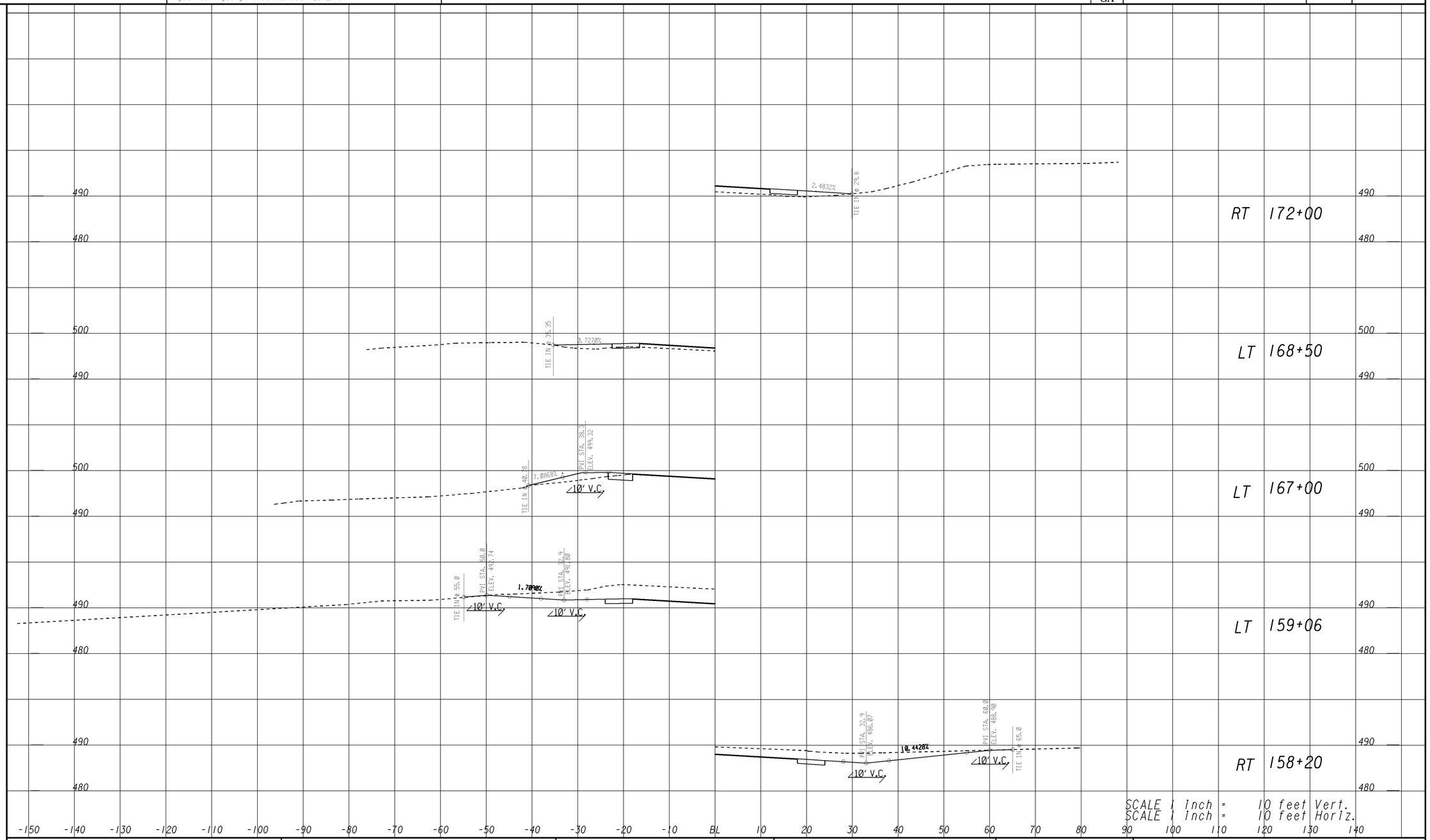
DRIVEWAY PROFILE

SR20

DRAWING No. 17-1

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

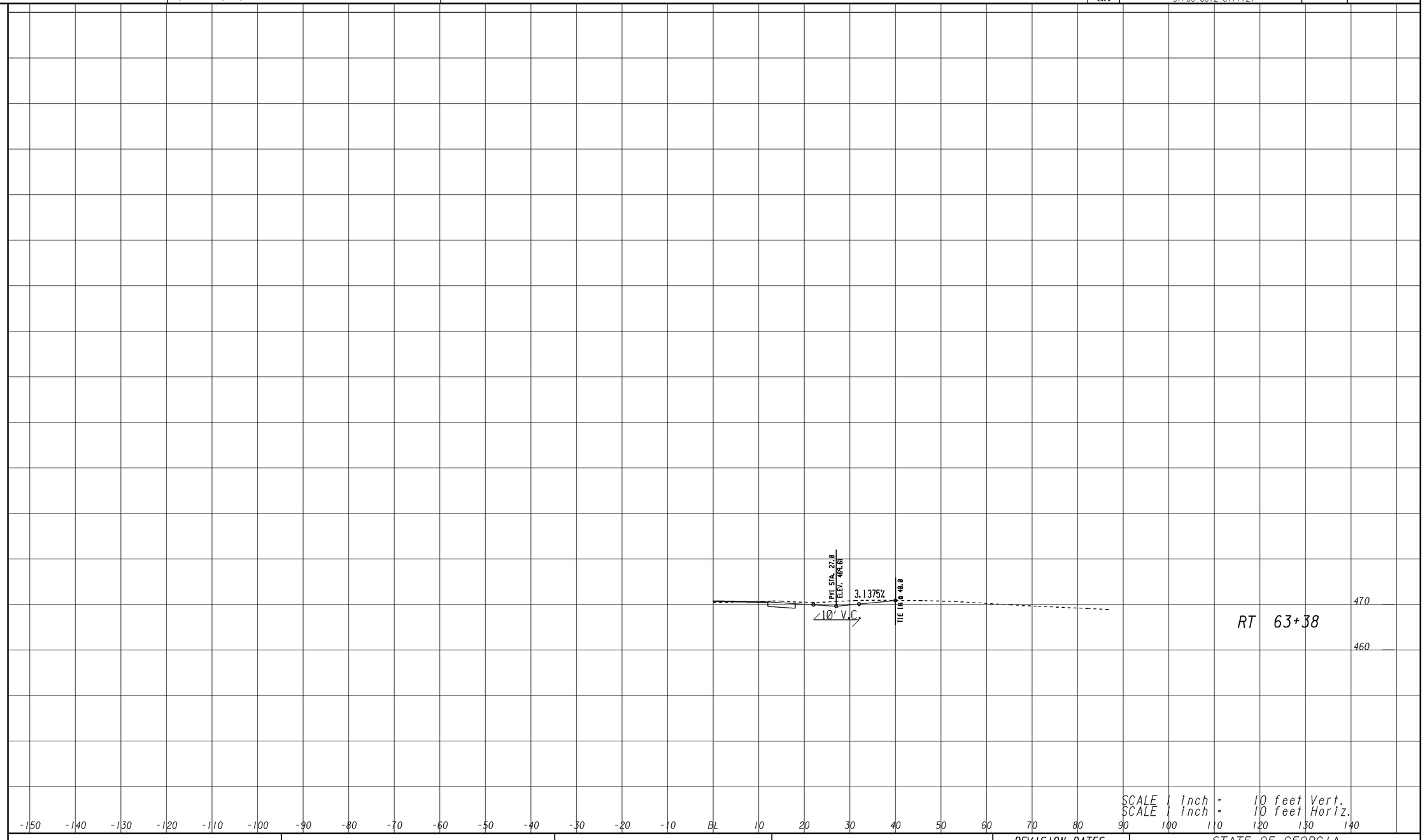
DRIVEWAY PROFILE

SR20

DRAWING No. 17-2

SUXSEW

Fri Feb 07 09:41:50 2014 skldd	Fri Feb 07 09:41:50 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108DRIVES.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP00-0012-01(112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

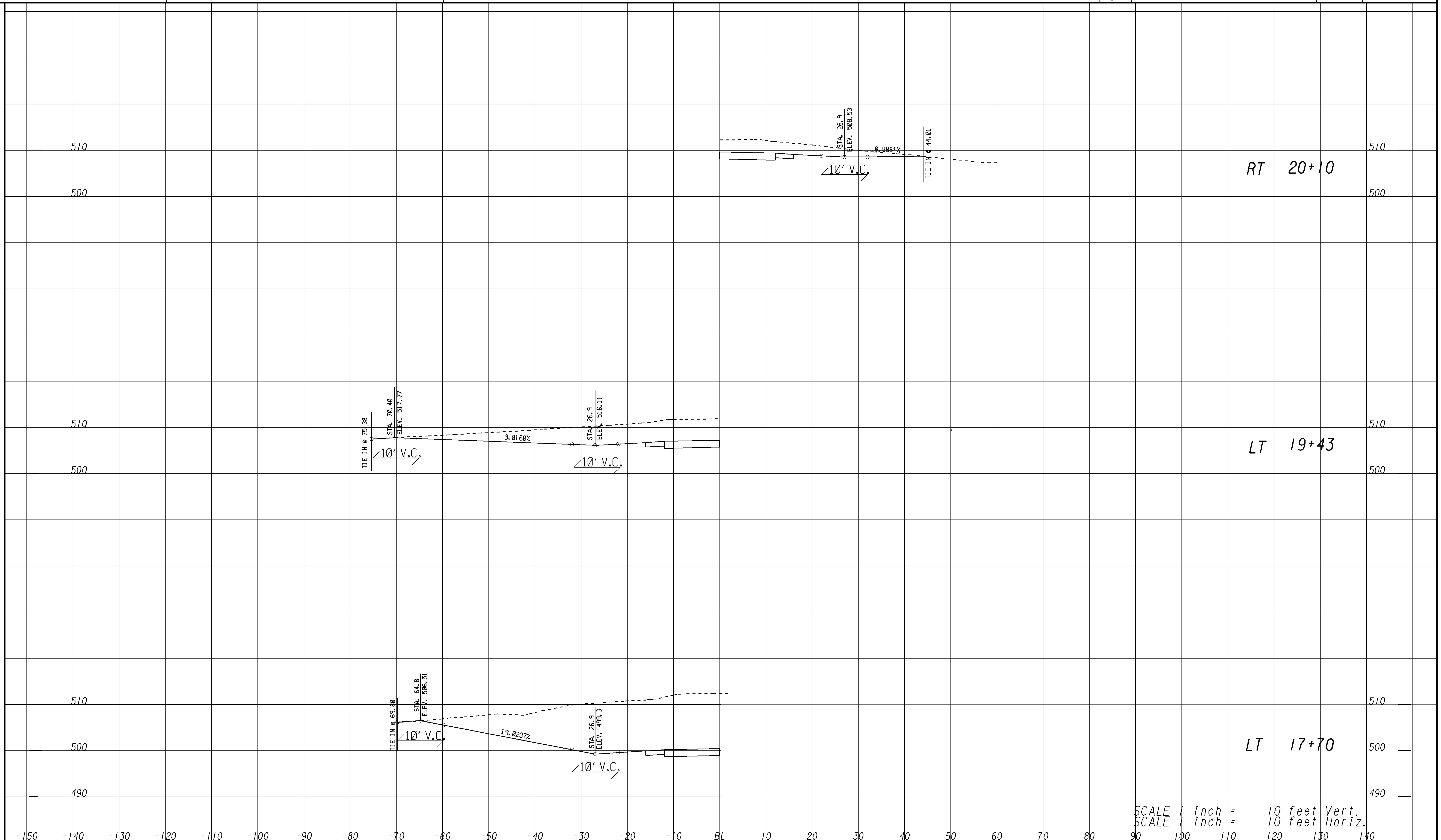
DRIVEWAY PROFILE

SR108

DRAWING No. 17-3

SUXSEW

Fri Feb 07 09:45:40 2014 sk1dd	Fri Feb 07 09:45:40 2014 \\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650UPPERSWEETWATERDRIVES.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



GEORGIA DEPARTMENT OF TRANSPORTATION

REVISION DATES

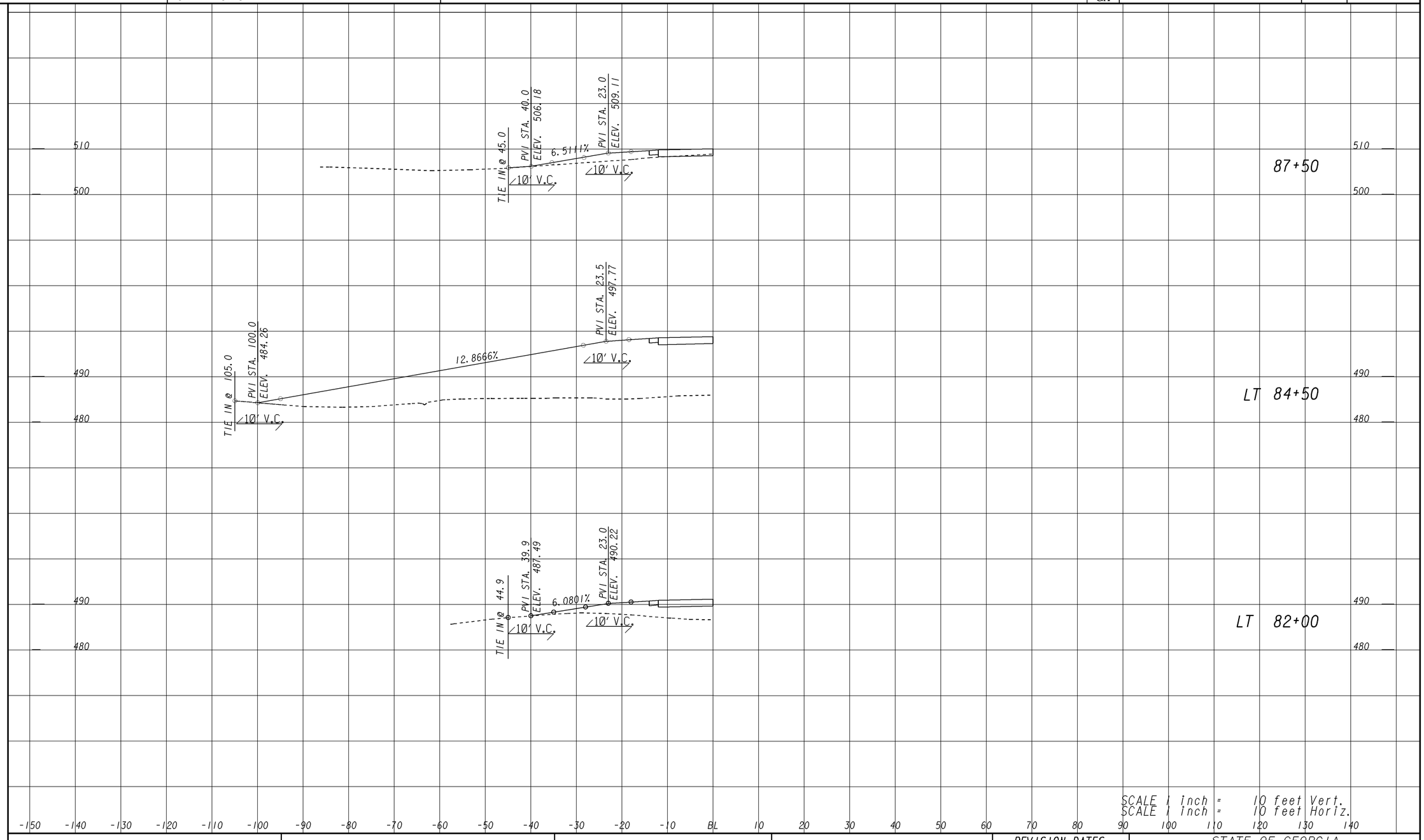
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

DRIVEWAY PROFILE

UPPER SWEETWATER

DRAWING No. 17-4

SUXSEW



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

DRIVEWAY PROFILE

WHITE RELOCATION

DRAWING NO. 17-05

SUXSEW

2/7/2014 skldd	Fri Feb 07 09:39:11 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20StageIPlanSheet1.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

Curve Data
N = KC10012
Δ = 68°23'25" (LT)
D = 12°08'00"
T = 320.86
L = 563.65
E = 98.69
R = 472.22
C = 530.78
CB = N 77°31'20" E
DB = S 68°16'58" E
DA = N 43°19'37" E
SE = 8%

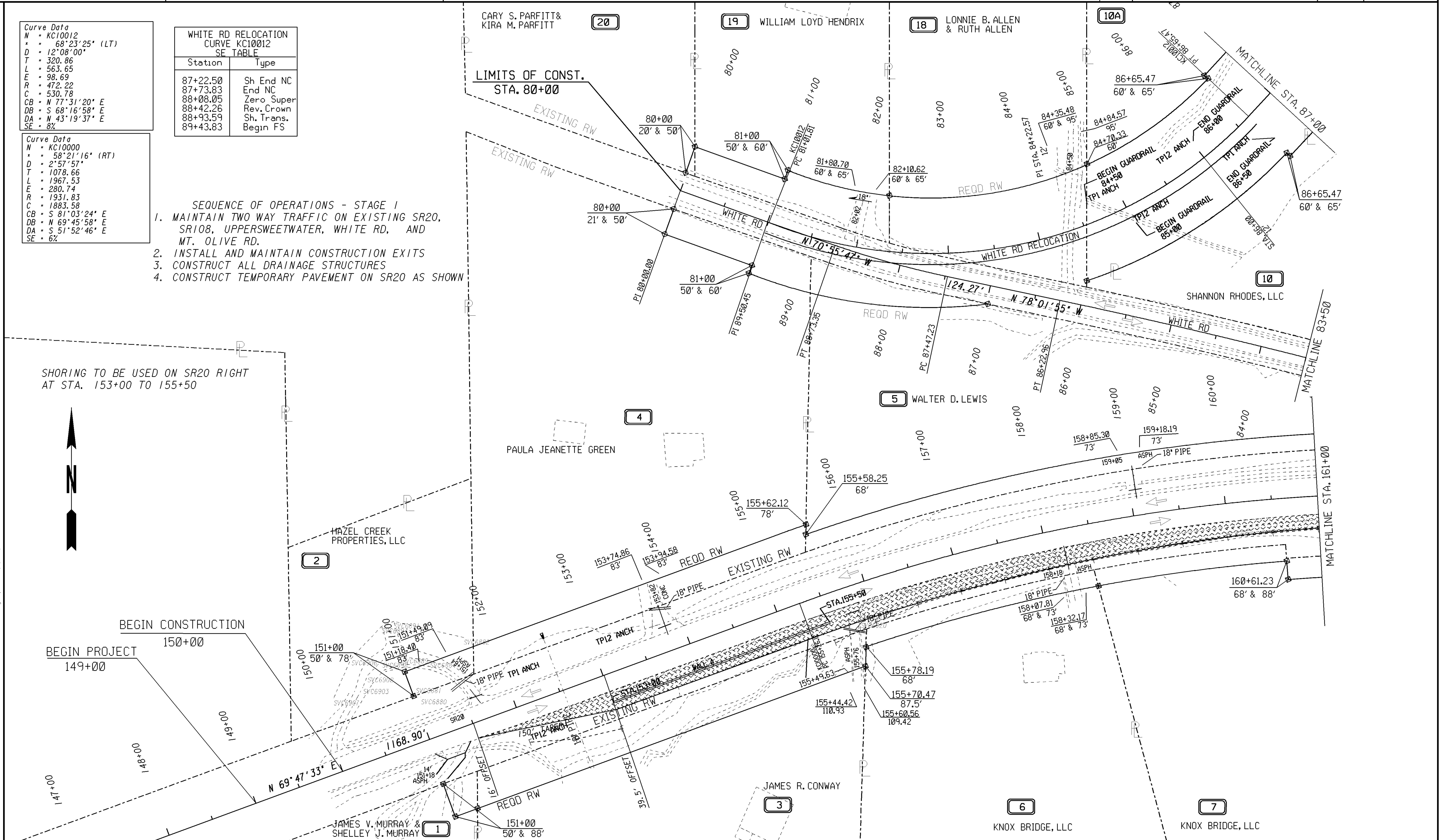
Curve Data
N = KC10000
Δ = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

WHITE RD RELOCATION
CURVE KC10012
SE TABLE

Station	Type
87+22.50	Sh End NC
87+73.83	End NC
88+08.05	Zero Super
88+42.26	Rev. Crown
88+93.59	Sh. Trans.
89+43.83	Begin FS

SEQUENCE OF OPERATIONS - STAGE I
1. MAINTAIN TWO WAY TRAFFIC ON EXISTING SR20, SR108, UPPERSWEETWATER, WHITE RD, AND MT. OLIVE RD.
2. INSTALL AND MAINTAIN CONSTRUCTION EXITS
3. CONSTRUCT ALL DRAINAGE STRUCTURES
4. CONSTRUCT TEMPORARY PAVEMENT ON SR20 AS SHOWN

SHORING TO BE USED ON SR20 RIGHT AT STA. 153+00 TO 155+50



LEGEND
- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

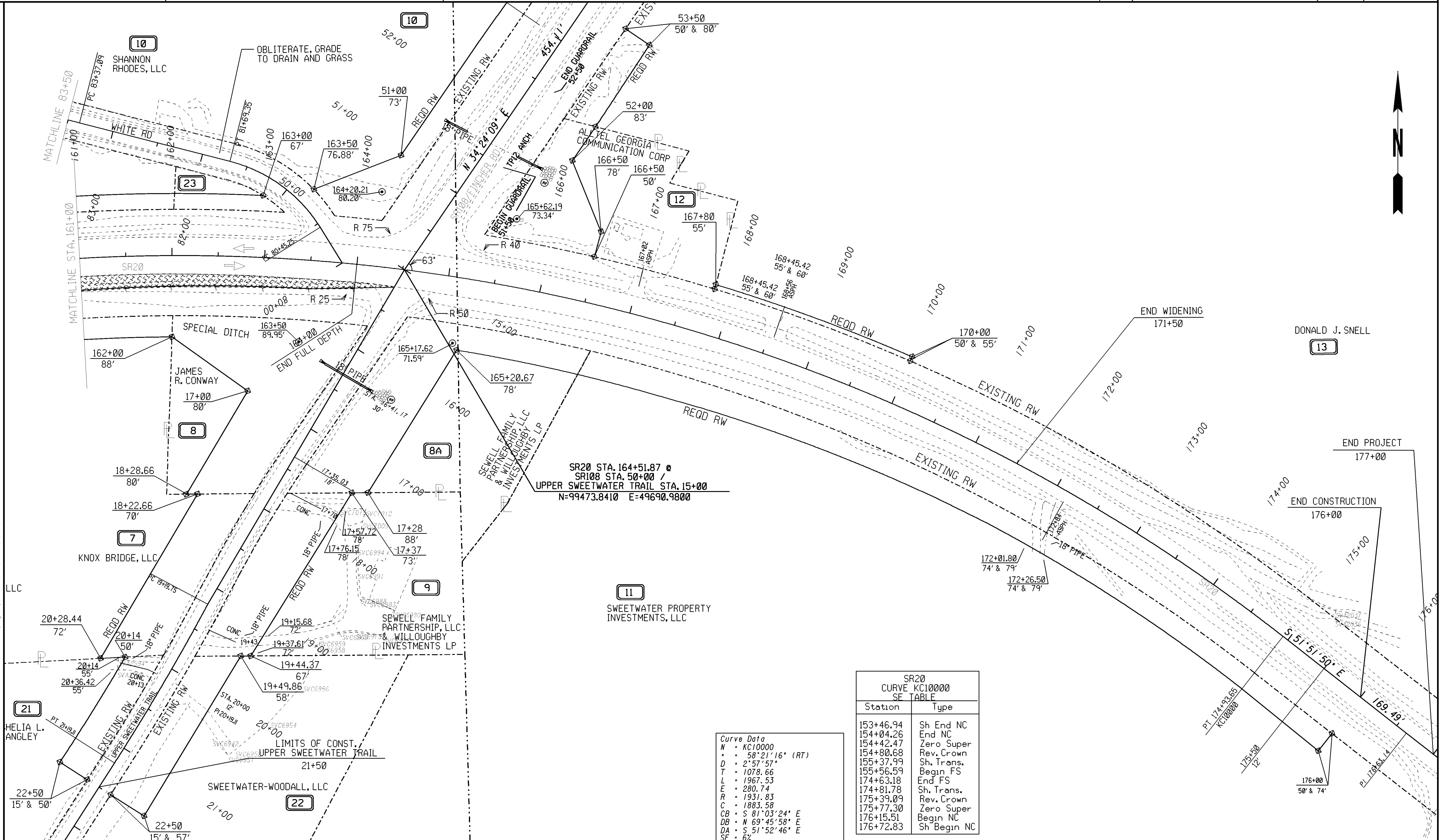
SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN
CONSTRUCTION STAGING PLAN
SR20 STAGE I

DRAWING No.
19-01

2/7/2014 skldd	Fri Feb 07 09:39:09 2014	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20StageIPlanSheet2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SR20 CURVE KC10000 SE TABLE	
Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

Curve Data	
N	KC10000
Δ	58°21'16" (RT)
D	2°57'57"
T	1078.66
L	1967.53
E	280.74
R	1931.83
C	1883.58
CB	S 81°03'24" E
DB	N 69°45'58" E
DA	S 51°52'46" E
SE	6%

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR20 STAGE I

DRAWING No. 19-02

1/5/2009 GPLN

2/7/2014 skldd	Fri Feb 07 09:39:07 2014 \\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20Stage2PlanSheet1.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

Curve Data

N	KC10012
Δ	68°23'25" (LT)
D	12°08'00"
T	320.86
L	563.65
E	98.69
R	472.22
C	530.78
CB	N 77°31'20" E
DB	S 68°16'58" E
DA	N 43°19'37" E
SE	8%

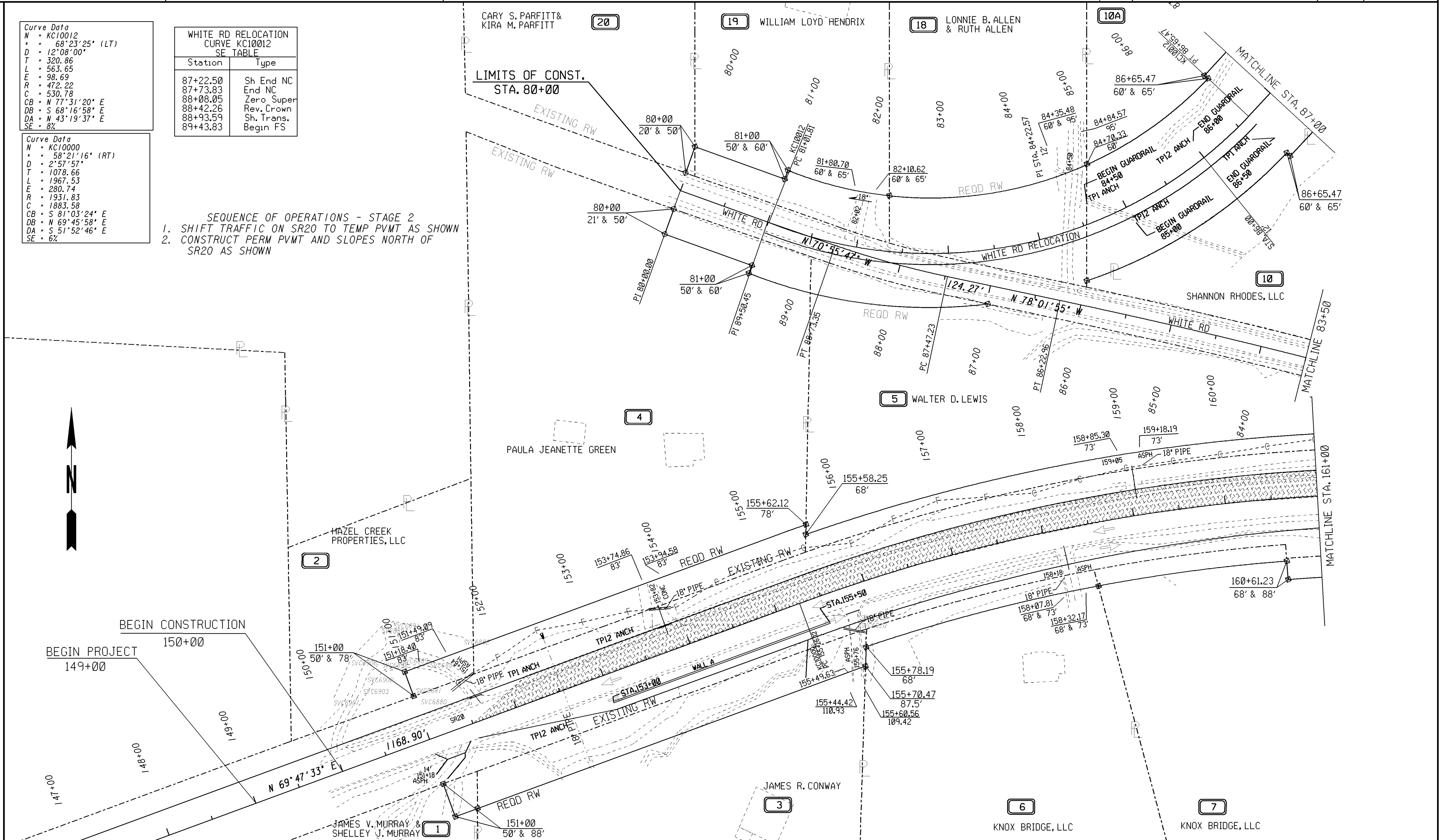
Curve Data

N	KC10000
Δ	58°21'16" (RT)
D	2°57'57"
T	1078.66
L	1967.53
E	280.74
R	1931.83
C	1883.58
CB	S 81°03'24" E
DB	N 69°45'58" E
DA	S 51°52'46" E
SE	6%

WHITE RD RELOCATION
CURVE KC10012
SE TABLE

Station	Type
87+22.50	Sh End NC
87+73.83	End NC
88+08.05	Zero Super
88+42.26	Rev. Crown
88+93.59	Sh. Trans.
89+43.83	Begin FS

SEQUENCE OF OPERATIONS - STAGE 2
1. SHIFT TRAFFIC ON SR20 TO TEMP PVMT AS SHOWN
2. CONSTRUCT PERM PVMT AND SLOPES NORTH OF SR20 AS SHOWN



LEGEND

PAVEMENT REMOVAL	
TEMPORARY CONSTRUCTION PAVEMENT	
PERMANENT CONSTRUCTION	
CONCRETE MEDIAN CONSTRUCTION	
MILL & OVERLAY CONSTRUCTION	
OPEN LANES OF TRAFFIC	

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

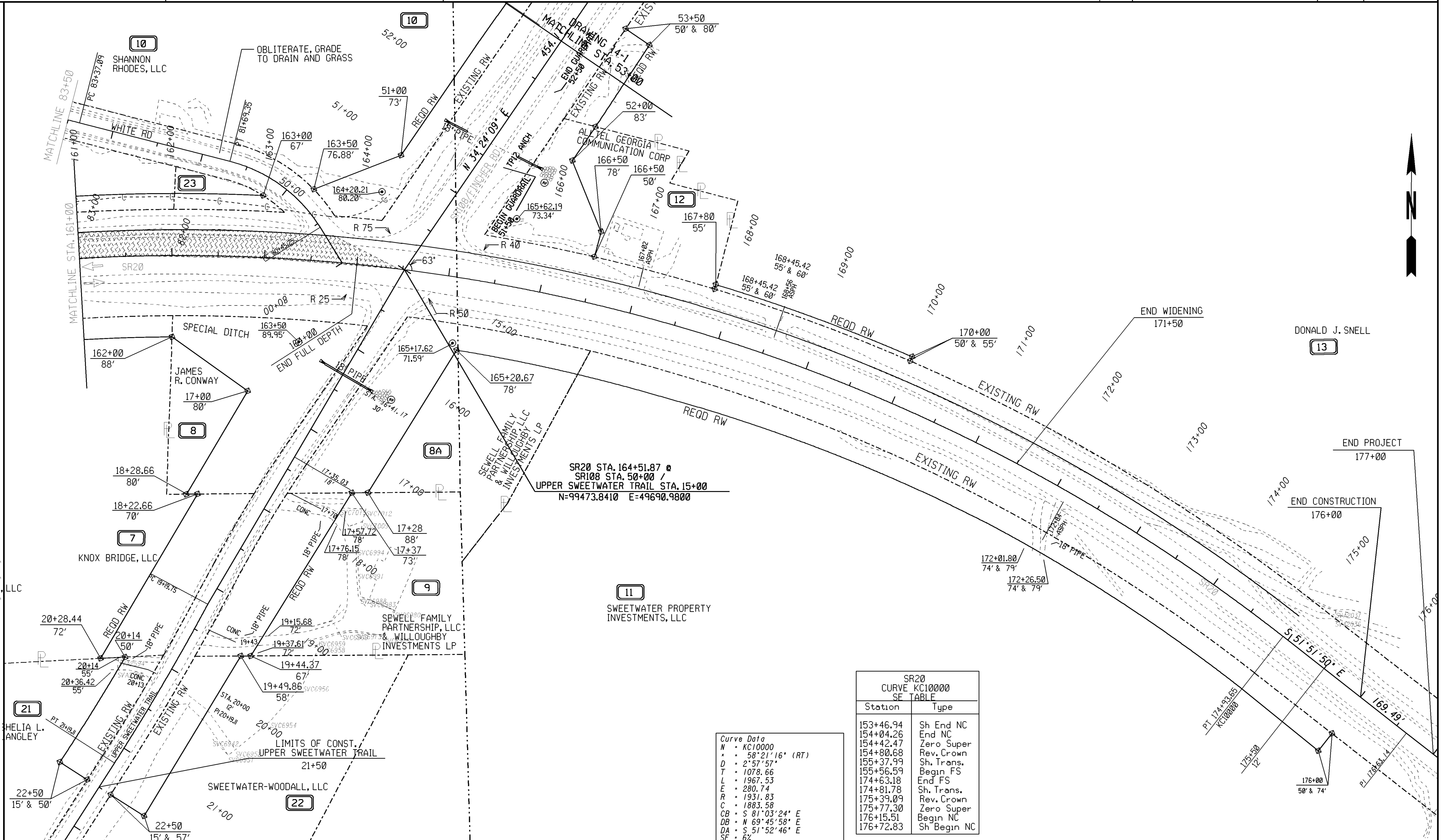
CONSTRUCTION STAGING PLAN

SR20 STAGE 2

DRAWING No. 19-03

1/5/2009 GPLN

2/7/2014 skldd	Fri Feb 07 09:39:05 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20Stage2PlanSheet2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



10
SHANNON RHODES, LLC
OBLITERATE, GRADE TO DRAIN AND GRASS
MATCHLINE 83+50
PC 83+37.09
PT 81+69.35
WHITE RD
MATCHLINE STA. 161+00
SR20
23
163+00 67'
163+50 76.88'
164+20.21 80.20'
51+00 73'
REQD RW
EXISTING RW
18" PIPE
N 34°24'09" E
SR108 (FINCHER RD)
TP12 ANCH
BEGIN GUARDRAIL 51+50
165+62.19 73.34'
R 75
R 40
63°
R 25
R 50
MATCHLINE DRAWING 14-1 SR108 STA. 53+00
END GUARDRAIL 52+50
53+50 50' & 80'
52+00 83'
ALLTEL GEORGIA COMMUNICATION CORP
166+50 78'
166+50 50'
12
167+80 55'
168+45.42 55' & 60'
170+00 50' & 55'
END WIDENING 171+50
DONALD J. SNELL
13
SPECIAL DITCH
163+50 89.95'
END FULL DEPTH
162+00 88'
JAMES R. CONWAY
17+00 80'
8
165+17.62 71.59'
165+20.67 78'
SEWELL FAMILY PARTNERSHIP LLC & WILLOUGHBY INVESTMENTS LP
REQD RW
EXISTING RW
8A
SR20 STA. 164+51.87 @ SR108 STA. 50+00 / UPPER SWEETWATER TRAIL STA. 15+00
N=99473.8410 E=49690.9800
18+28.66 80'
18+22.66 70'
7
KNOX BRIDGE, LLC
17+28 88'
17+37 73'
17+57.72 78'
17+76.15 78'
9
SEWELL FAMILY PARTNERSHIP, LLC & WILLOUGHBY INVESTMENTS LP
11
SWEETWATER PROPERTY INVESTMENTS, LLC
172+01.80 74' & 79'
172+26.50 74' & 79'
18" PIPE
END PROJECT 177+00
END CONSTRUCTION 176+00
S 51°51'50" E
169.49'
PT 174+93.65 KC10000
175+50 12'
176+00 50' & 74'
20+28.44 72'
20+14 50'
20+14 55'
20+36.42 55'
19+15.68 72'
19+37.61 72'
19+44.37 67'
19+49.86 58'
21
SHELIA L. LANGLEY
UPPER SWEETWATER TRAIL
LIMITS OF CONST. UPPER SWEETWATER TRAIL 21+50
SWEETWATER-WOODALL, LLC
22
22+50 15' & 50'
22+50 15' & 57'
N

Curve Data	
N	= KC10000
Δ	= 58°21'16" (RT)
D	= 2°57'57"
T	= 1078.66
L	= 1967.53
E	= 280.74
R	= 1931.83
C	= 1883.58
CB	= S 81°03'24" E
DB	= N 69°45'58" E
DA	= S 51°52'46" E
SE	= 6%

SR20 CURVE KC10000 SE TABLE

Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR20 STAGE 2

DRAWING No. 19-04

1/5/2009 GPLN

2/7/2014 sk1dd	Fri Feb 07 09:39:03 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20Stage3PlanSheet1.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			

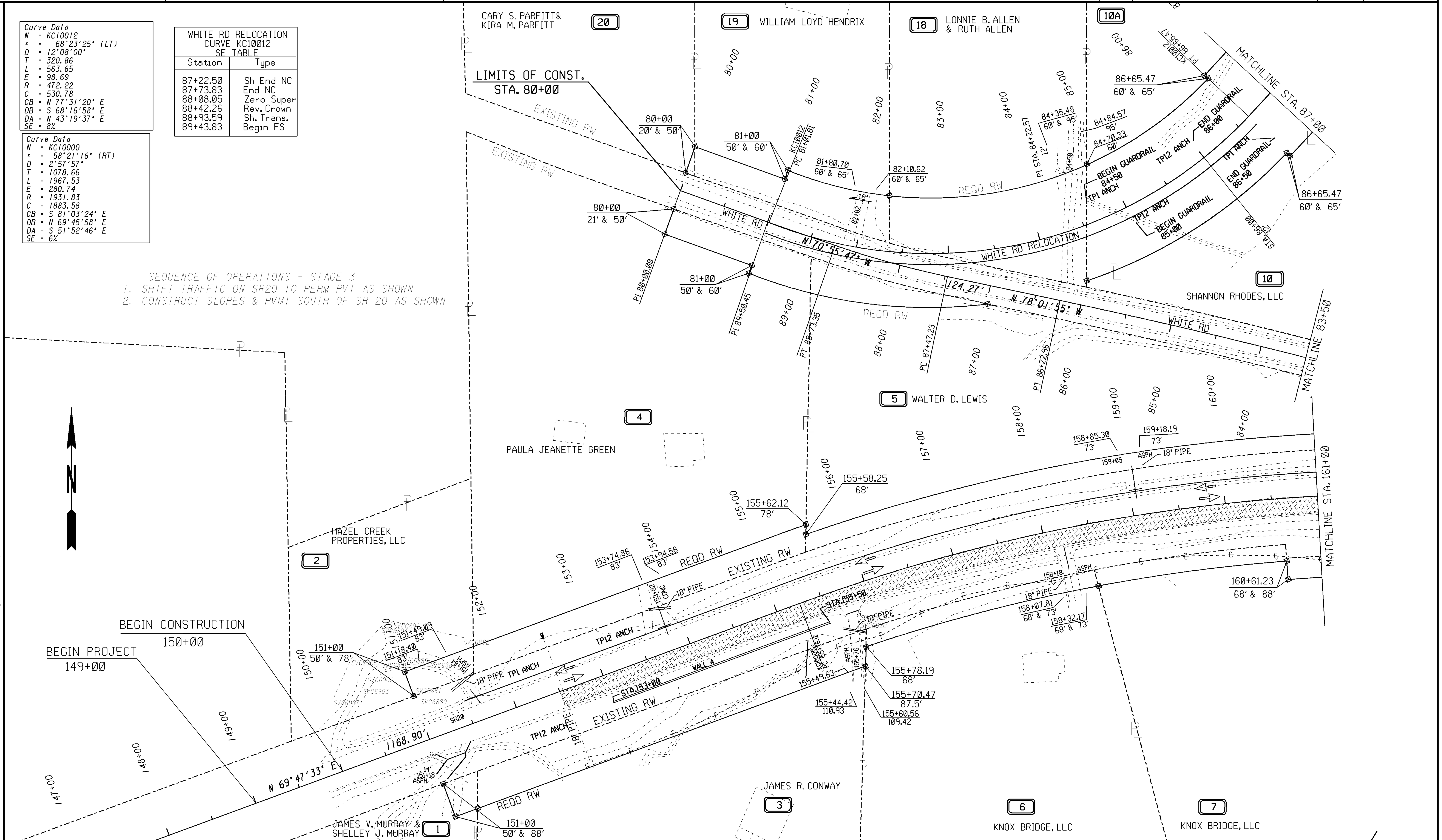
Curve Data
N = KC10012
Δ = 68°23'25" (LT)
D = 12°08'00"
T = 320.86
L = 563.65
E = 98.69
R = 472.22
C = 530.78
CB = N 77°31'20" E
DB = S 68°16'58" E
DA = N 43°19'37" E
SE = 8%

Curve Data
N = KC10000
Δ = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

WHITE RD RELOCATION
CURVE KC10012
SE TABLE

Station	Type
87+22.50	Sh End NC
87+73.83	End NC
88+08.05	Zero Super
88+42.26	Rev. Crown
88+93.59	Sh. Trans.
89+43.83	Begin FS

SEQUENCE OF OPERATIONS - STAGE 3
1. SHIFT TRAFFIC ON SR20 TO PERM PVT AS SHOWN
2. CONSTRUCT SLOPES & PVMT SOUTH OF SR 20 AS SHOWN



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

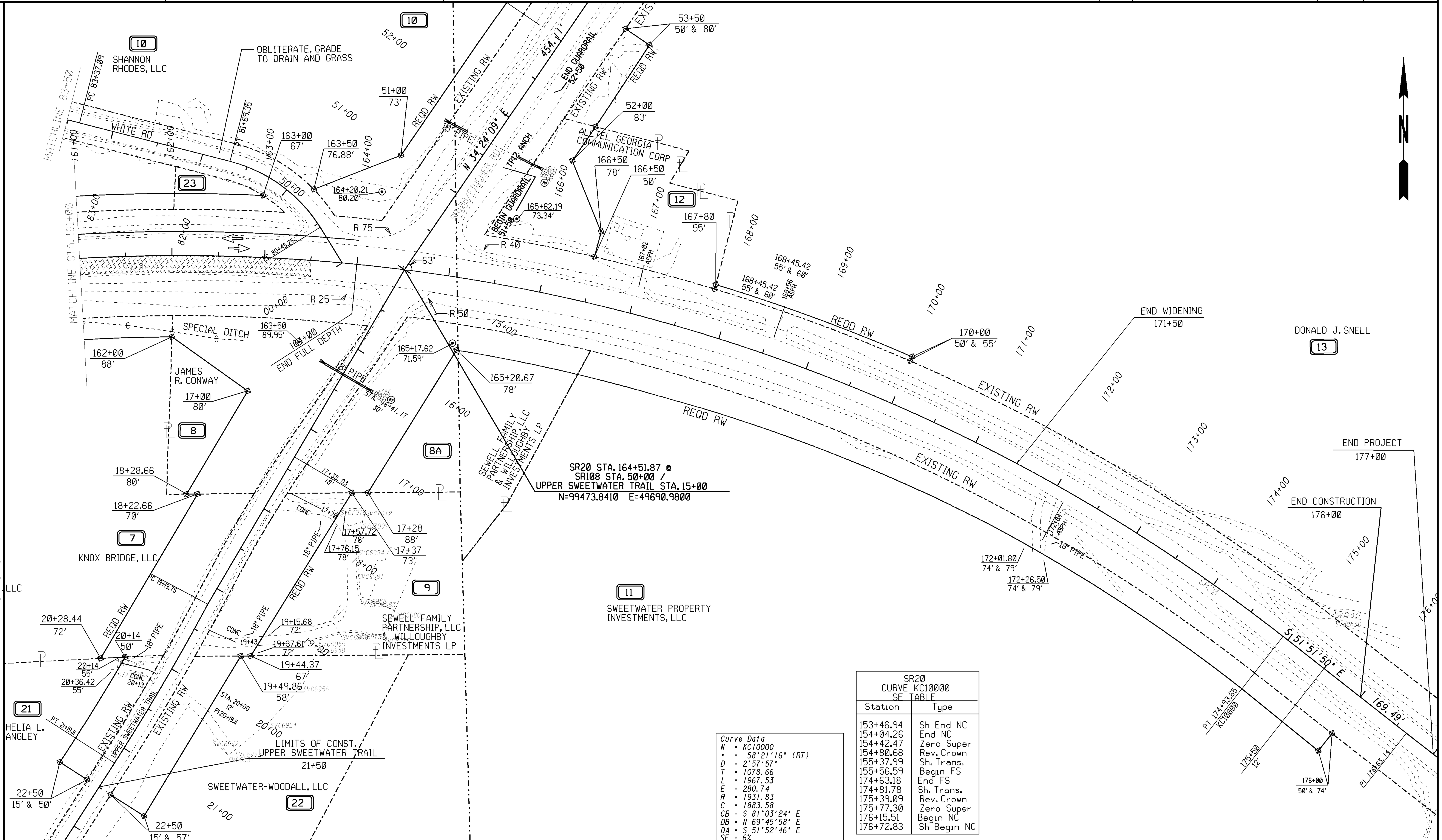
CONSTRUCTION STAGING PLAN

SR20 STAGE 3

DRAWING No. 19-05

1/5/2009 GPLN

2/7/2014 skldd	Fri Feb 07 09:40:25 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20Stage3PlanSheet2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



10
SHANNON RHODES, LLC
OBLITERATE, GRADE TO DRAIN AND GRASS
MATCHLINE 83+50
MATCHLINE STA. 161+00
WHITE RD
23
SPECIAL DITCH
162+00
88'
163+50
89.95'
END FULL DEPTH
JAMES R. CONWAY
17+00
80'
8
18+28.66
80'
18+22.66
70'
7
KNOX BRIDGE, LLC
LLC
20+28.44
72'
20+14
50'
20+14
55'
20+36.42
55'
21
HELIA L. ANGLEY
22+50
15' & 50'
22+50
15' & 57'
EXISTING RW
REQD RW
UPPER SWEETWATER TRAIL
18" PIPE
8A
9
19+15.68
72'
19+37.61
72'
19+44.37
67'
19+49.86
58'
17+28
88'
17+37
73'
17+57.72
78'
17+76.15
78'
SEWELL FAMILY PARTNERSHIP, LLC & WILLOUGHBY INVESTMENTS LP
LIMITS OF CONST. UPPER SWEETWATER TRAIL
21+50
SWEETWATER-WOODALL, LLC
22
51+00
73'
163+00
67'
163+50
76.88'
164+20.21
80.20'
R 75
R 25
R 50
R 40
63°
165+17.62
71.59'
165+20.67
78'
N 34°24'09" E
454.11'
SR108 (FINCHER RD)
END GUARDRAIL 52+50
BEGIN GUARDRAIL 51+50
TP12 ANCH
165+62.19
73.34'
53+50
50' & 80'
52+00
83'
ALLTEL GEORGIA COMMUNICATION CORP
166+50
78'
166+50
50'
12
167+80
55'
168+45.42
55' & 60'
170+00
50' & 55'
END WIDENING
171+50
DONALD J. SNELL
13
SR20 STA. 164+51.87 @
SR108 STA. 50+00 /
UPPER SWEETWATER TRAIL STA. 15+00
N=99473.8410 E=49690.9800
11
SWEETWATER PROPERTY INVESTMENTS, LLC
172+01.80
74' & 79'
172+26.50
74' & 79'
18" PIPE
END PROJECT
177+00
END CONSTRUCTION
176+00
S 51°51'50" E
169.49'
PT 174+93.65 KC10000
175+50
12'
176+00
50' & 74'
N

Curve Data	
N	= KC10000
Δ	= 58°21'16" (RT)
D	= 2°57'57"
T	= 1078.66
L	= 1967.53
E	= 280.74
R	= 1931.83
C	= 1883.58
CB	= S 81°03'24" E
DB	= N 69°45'58" E
DA	= S 51°52'46" E
SE	= 6%

SR20 CURVE KC10000 SE TABLE

Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR20 STAGE 3

DRAWING No. 19-06

1/5/2009 GPLN

SEQUENCE OF OPERATIONS - STAGE I
1. CONSTRUCT TEMP PVMT EAST OF SR108 WHILE MAINTAINING TRAFFIC ON EXISTING SR108, MT OLIVE, & WHITE RD

SR20 STA. 164+51.87 ℄
SR108 STA. 50+00 /
UPPER SWEETWATER TRAIL STA. 15+00
N=99473.8410 E=49690.9800

SHANNON RHODES, LLC — 10
JAMES R. CONWAY — 8
KNOX BRIDGE, LLC — 7
HELIA L. ANGLEY — 21
SEWELL FAMILY PARTNERSHIP, LLC & WILLOUGHBY INVESTMENTS LP — 9
SWEETWATER PROPERTY INVESTMENTS, LLC — 11
SWEETWATER-WOODALL, LLC — 22
ALLTEL GEORGIA COMMUNICATION CORP — 12
DONALD J. SNELL — 13

OBLITERATE, GRADE TO DRAIN AND GRASS
MATCHLINE 83+50
MATCHLINE STA. 161+00
WHITE RD
SR20
SPECIAL DITCH
END FULL DEPTH
EXISTING RW
REQD RW
LIMITS OF CONST.
UPPER SWEETWATER TRAIL
21+50
END WIDENING 171+50
END PROJECT 177+00
END CONSTRUCTION 176+00
N 34°24'09" E 454.11'
S 51°51'50" E 169.49'

Curve Data
N = KC10000
Δ = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

SR20 CURVE KC10000 SE TABLE

Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

LEGEND
- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR108 STAGE I

DRAWING NO. 19-07

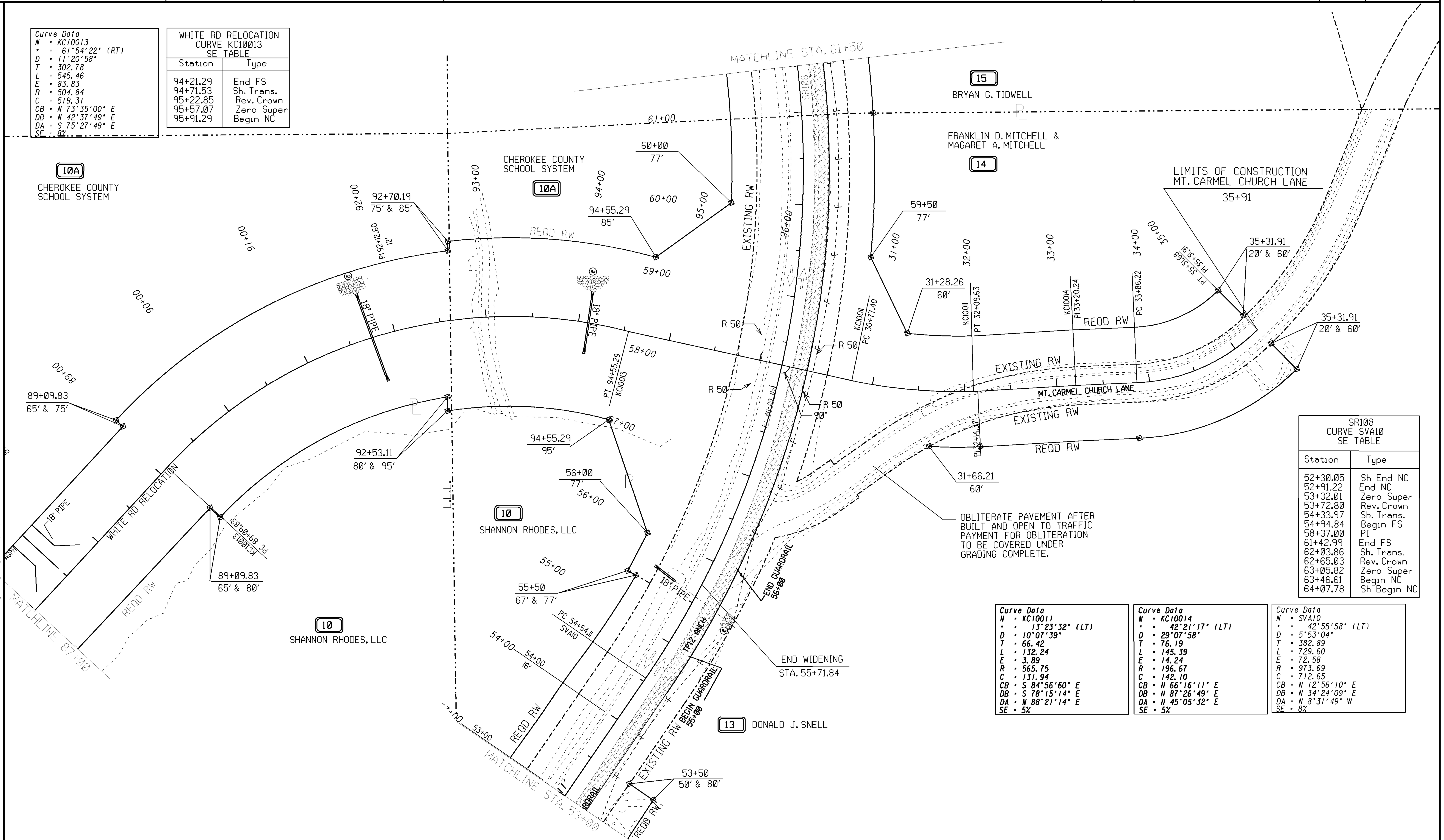
1/5/2009 GPLN

2/7/2014 sk1dd	Fri Feb 07 09:42:57 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108Stage1PlanSheet2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			

Curve Data
N = KC10013
* = 61°54'22" (RT)
D = 11°20'58"
T = 302.78
L = 545.46
E = 83.83
R = 504.84
C = 519.31
CB = N 73°35'00" E
DB = N 42°37'49" E
DA = S 75°27'49" E
SE = 8%

WHITE RD RELOCATION
CURVE KC10013
SE TABLE

Station	Type
94+21.29	End FS
94+71.53	Sh. Trans.
95+22.85	Rev. Crown
95+57.07	Zero Super
95+91.29	Begin NC



SR108
CURVE SVA10
SE TABLE

Station	Type
52+30.05	Sh End NC
52+91.22	End NC
53+32.01	Zero Super
53+72.80	Rev. Crown
54+33.97	Sh. Trans.
54+94.84	Begin FS
58+37.00	PI
61+42.99	End FS
62+03.86	Sh. Trans.
62+65.03	Rev. Crown
63+05.82	Zero Super
63+46.61	Begin NC
64+07.78	Sh Begin NC

Curve Data
N = KC10011
* = 13°23'32" (LT)
D = 10°07'39"
T = 66.42
L = 132.24
E = 3.89
R = 565.75
C = 131.94
CB = S 84°56'60" E
DB = S 78°15'14" E
DA = N 88°21'14" E
SE = 5%

Curve Data
N = KC10014
* = 42°21'17" (LT)
D = 29°07'58"
T = 76.19
L = 145.39
E = 14.24
R = 196.67
C = 142.10
CB = N 66°16'11" E
DB = N 87°26'49" E
DA = N 45°05'32" E
SE = 5%

Curve Data
N = SVA10
* = 42°55'58" (LT)
D = 5°53'04"
T = 382.89
L = 729.60
E = 72.58
R = 973.69
C = 712.65
CB = N 12°56'10" E
DB = N 34°24'09" E
DA = N 8°31'49" W
SE = 8%

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR108 STAGE I

DRAWING No. 19-08

1/5/2009 GPLN

2/7/2014 skldd	Fri Feb 07 09:42:55 2014	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108StageIPlanSheet3.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

LEGEND

PAVEMENT REMOVAL	▨
TEMPORARY CONSTRUCTION PAVEMENT	▨
PERMANENT CONSTRUCTION	▨
CONCRETE MEDIAN CONSTRUCTION	▨
MILL & OVERLAY CONSTRUCTION	▨
OPEN LANES OF TRAFFIC	⇆

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR108 STAGE 1

DRAWING No.
19-09

1/5/2009 GPLN

2/7/2014 sk1dd	Fri Feb 07 09:42:53 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650sr108Stage2PlanSheet1.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			

SEQUENCE OF OPERATIONS - STAGE 2
1. SHIFT TRAFFIC ON SR108 TOTEMP PVMT
2. CONSTRUNCT PERM PVMT & SLOPE WEST SIDE OF SR108 AS SHOWN

SR20 STA. 164+51.87 ℄
SR108 STA. 50+00 /
UPPER SWEETWATER TRAIL STA. 15+00
N=99473.8410 E=49690.9800

SR20 CURVE KC10000 SE TABLE	
Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

Curve Data
N = KC10000
Δ = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

LEGEND
- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR108 STAGE 2

DRAWING No. 19-10

2/7/2014 Fri Feb 07 09:42:51 2014 skidd	\\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108Stage2PlanSheet2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

Curve Data
N = KC10013
* = 61°54'22" (RT)
D = 11°20'58"
T = 302.78
L = 545.46
E = 83.83
R = 504.84
C = 519.31
CB = N 73°35'00" E
DB = N 42°37'49" E
DA = S 75°27'49" E
SE = 8%

WHITE RD RELOCATION CURVE KC10013 SE TABLE	
Station	Type
94+21.29	End FS
94+71.53	Sh. Trans.
95+22.85	Rev. Crown
95+57.07	Zero Super
95+91.29	Begin NC

MATCHLINE STA. 61+50

15 BRYAN G. TIDWELL

FRANKLIN D. MITCHELL & MAGARET A. MITCHELL 14

10A CHEROKEE COUNTY SCHOOL SYSTEM

CHEROKEE COUNTY SCHOOL SYSTEM 10A

LIMITS OF CONSTRUCTION MT. CARMEL CHURCH LANE 35+91

60+00 77′

92+70.19 75′ & 85′

94+55.29 85′

59+50 77′

31+28.26 60′

35+31.91 20′ & 60′

89+09.83 65′ & 75′

92+53.11 80′ & 95′

94+55.29 95′

56+00 77′

55+50 67′ & 77′

53+50 50′ & 80′

89+09.83 65′ & 80′

MATCHLINE 87+00

MATCHLINE STA. 53+00

REQD RW

EXISTING RW

18" PIPE

WHITE RD RELOCATION

PC 89+09.83 KC10013

PT 94+55.29 KC10013

PC 30+77.40 KC10011

PT 32+09.63 KC10011

PI 33+20.24 KC10014

PC 33+86.22 KC10014

PI 35+31.91 KC10014

PI 32+14.37 SVA10

PC 54+54.11 SVA10

R 50

90°

MT. CARMEL CHURCH LANE

OBLITERATE PAVEMENT AFTER BUILT AND OPEN TO TRAFFIC PAYMENT FOR OBLITERATION TO BE COVERED UNDER GRADING COMPLETE.

END GUARDRAIL 56+00

END WIDENING STA. 55+71.84

BEGIN GUARDRAIL 55+00

TPIZ ANCH

10 SHANNON RHODES, LLC

13 DONALD J. SNELL

SHANNON RHODES, LLC

10 SHANNON RHODES, LLC

OBLITERATE, GRADE TO DRAIN AND GRASS

SR108 CURVE SVA10 SE TABLE	
Station	Type
52+30.05	Sh End NC
52+91.22	End NC
53+32.01	Zero Super
53+72.80	Rev. Crown
54+33.97	Sh. Trans.
54+94.84	Begin FS
58+37.00	PI
61+42.99	End FS
62+03.86	Sh. Trans.
62+65.03	Rev. Crown
63+05.82	Zero Super
63+46.61	Begin NC
64+07.78	Sh Begin NC

Curve Data
N = KC10011
* = 13°23'32" (LT)
D = 10°07'39"
T = 66.42
L = 132.24
E = 3.89
R = 565.75
C = 131.94
CB = S 84°56'60" E
DB = S 78°15'14" E
DA = N 88°21'14" E
SE = 5%

Curve Data
N = KC10014
* = 42°21'17" (LT)
D = 29°07'58"
T = 76.19
L = 145.39
E = 14.24
R = 196.67
C = 142.10
CB = N 66°16'11" E
DB = N 87°26'49" E
DA = N 45°05'32" E
SE = 5%

Curve Data
N = SVA10
* = 42°55'58" (LT)
D = 5°53'04"
T = 382.89
L = 729.60
E = 72.58
R = 973.69
C = 712.65
CB = N 12°56'10" E
DB = N 34°24'09" E
DA = N 8°31'49" W
SE = 8%

LEGEND
- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR108 STAGE 2

DRAWING No. 19-11

1/5/2009 GPLN

LIMITS OF CONSTRUCTION
65+00

65+00
77' & 50'

65+00
77' & 50'

PI 65+53.61

65+00

64+00

63+00

62+00

SR108

379.90

N 83°31'50" W

18" PIPE

CONC
63+38

63+44.17
50' & 55'

63+24.98
50' & 55'

SVC7066
SVC7064
SVC7063
SVC7051
SVC7045
SVC7037

SVA10
PT 61+83.72

MATCHLINE STA. 61+50

10A
CHEROKEE COUNTY
SCHOOL SYSTEM

10A
CHEROKEE COUNTY
SCHOOL SYSTEM

15
BRYAN G. TIDWELL

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR108 STAGE 2

DRAWING NO. 19-12

2/7/2014 Fri Feb 07 09:42:48 2014 skidd	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108Stage3PlanSheet1.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

SEQUENCE OF OPERATIONS - STAGE 3

1. SHIFT TRAFFIC TO PERM PVMT ON SR 108 AS SHOWN.
2. CONSTRUCT PERM PVMT AND SLOPES ON EAST SIDE OF SR108 AS SHOWN.
3. CONSTRUCT WHITE RD RELOCATION AND MT OLIVE WHILE MAINTAINING TRAFFIC.
4. SHIFT TRAFFIC TO NEW SR108 PVMT, WHITE RD RELOCATION, AND MT OLIVE.
5. REMOVE TEMP PVMT & SLOPES. OBLITERATE OLD PVMT ON MT. OLIVE, & WHITE RD AS SHOWN.

SR20 STA. 164+51.87 ℄
SR108 STA. 50+00 /
UPPER SWEETWATER TRAIL STA. 15+00
N=99473.8410 E=49690.9800

Curve Data	
N	KC10000
Δ	58°21'16" (RT)
D	2°57'57"
T	1078.66
L	1967.53
E	280.74
R	1931.83
C	1883.58
CB	S 81°03'24" E
DB	N 69°45'58" E
DA	S 51°52'46" E
SE	6%

SR20 CURVE KC10000 SE TABLE

Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

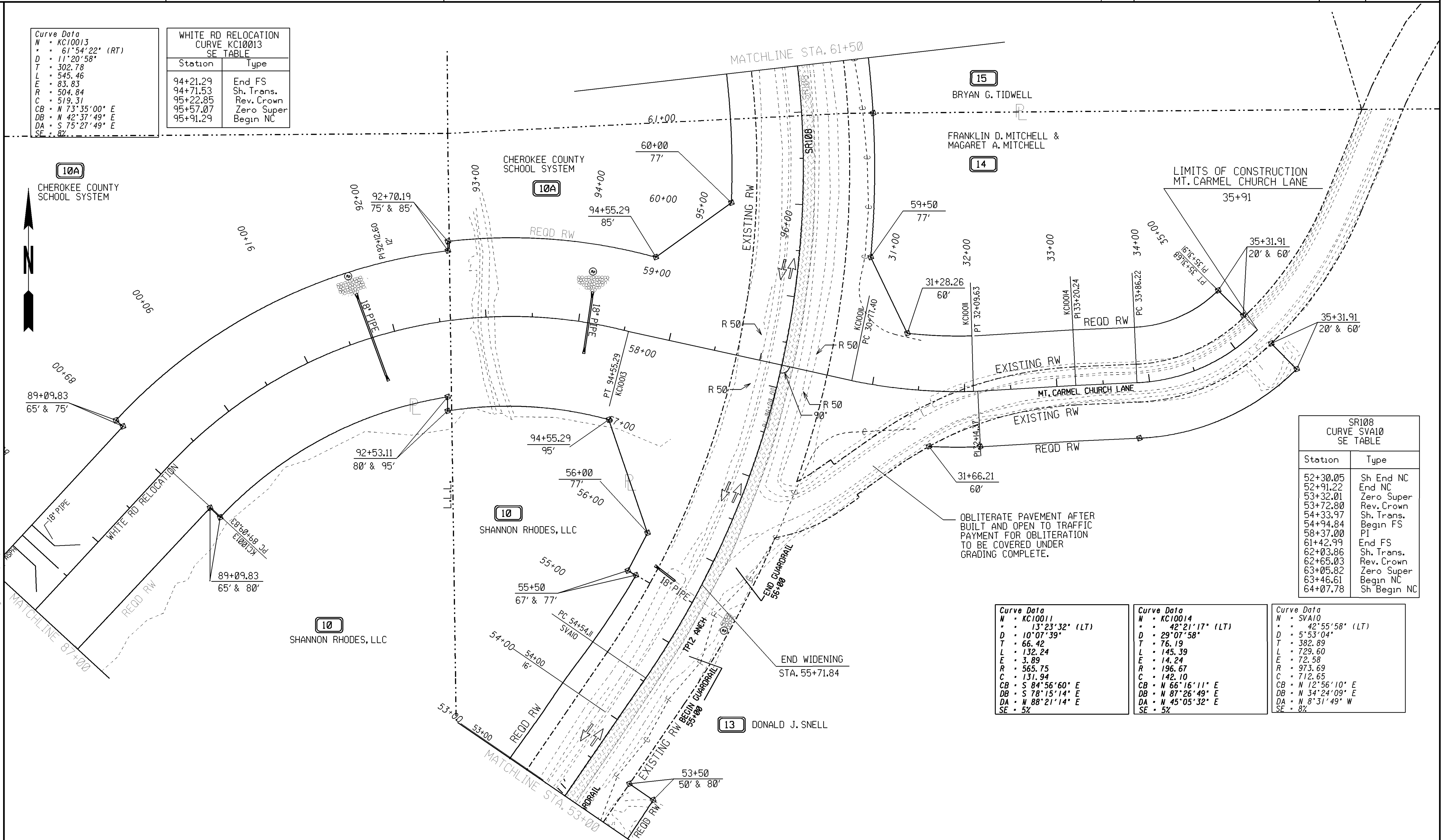
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

CONSTRUCTION STAGING PLAN

SR108 STAGE 3

DRAWING No. 19-13

2/7/2014 skldd	Fri Feb 07 09:42:45 2014 \\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108Stage3PlanSheet2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



Curve Data	
N	KC10013
Δ	61°54'22" (RT)
D	11°20'58"
T	302.78
L	545.46
E	83.83
R	504.84
C	519.31
CB	N 73°35'00" E
DB	N 42°37'49" E
DA	S 75°27'49" E
SE	8%

WHITE RD RELOCATION
CURVE KC10013
SE TABLE

Station	Type
94+21.29	End FS
94+71.53	Sh. Trans.
95+22.85	Rev. Crown
95+57.07	Zero Super
95+91.29	Begin NC

SR108
CURVE SVA10
SE TABLE

Station	Type
52+30.05	Sh End NC
52+91.22	End NC
53+32.01	Zero Super
53+72.80	Rev. Crown
54+33.97	Sh. Trans.
54+94.84	Begin FS
58+37.00	PI
61+42.99	End FS
62+03.86	Sh. Trans.
62+65.03	Rev. Crown
63+05.82	Zero Super
63+46.61	Begin NC
64+07.78	Sh Begin NC

Curve Data	
N	KC10011
Δ	13°23'32" (LT)
D	10°07'39"
T	66.42
L	132.24
E	3.89
R	565.75
C	131.94
CB	S 84°56'60" E
DB	S 78°15'14" E
DA	N 88°21'14" E
SE	5%

Curve Data	
N	KC10014
Δ	42°21'17" (LT)
D	29°07'58"
T	76.19
L	145.39
E	14.24
R	196.67
C	142.10
CB	N 66°16'11" E
DB	N 87°26'49" E
DA	N 45°05'32" E
SE	5%

Curve Data	
N	SVA10
Δ	42°55'58" (LT)
D	5°53'04"
T	382.89
L	729.60
E	72.58
R	973.69
C	712.65
CB	N 12°56'10" E
DB	N 34°24'09" E
DA	N 8°31'49" W
SE	8%

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

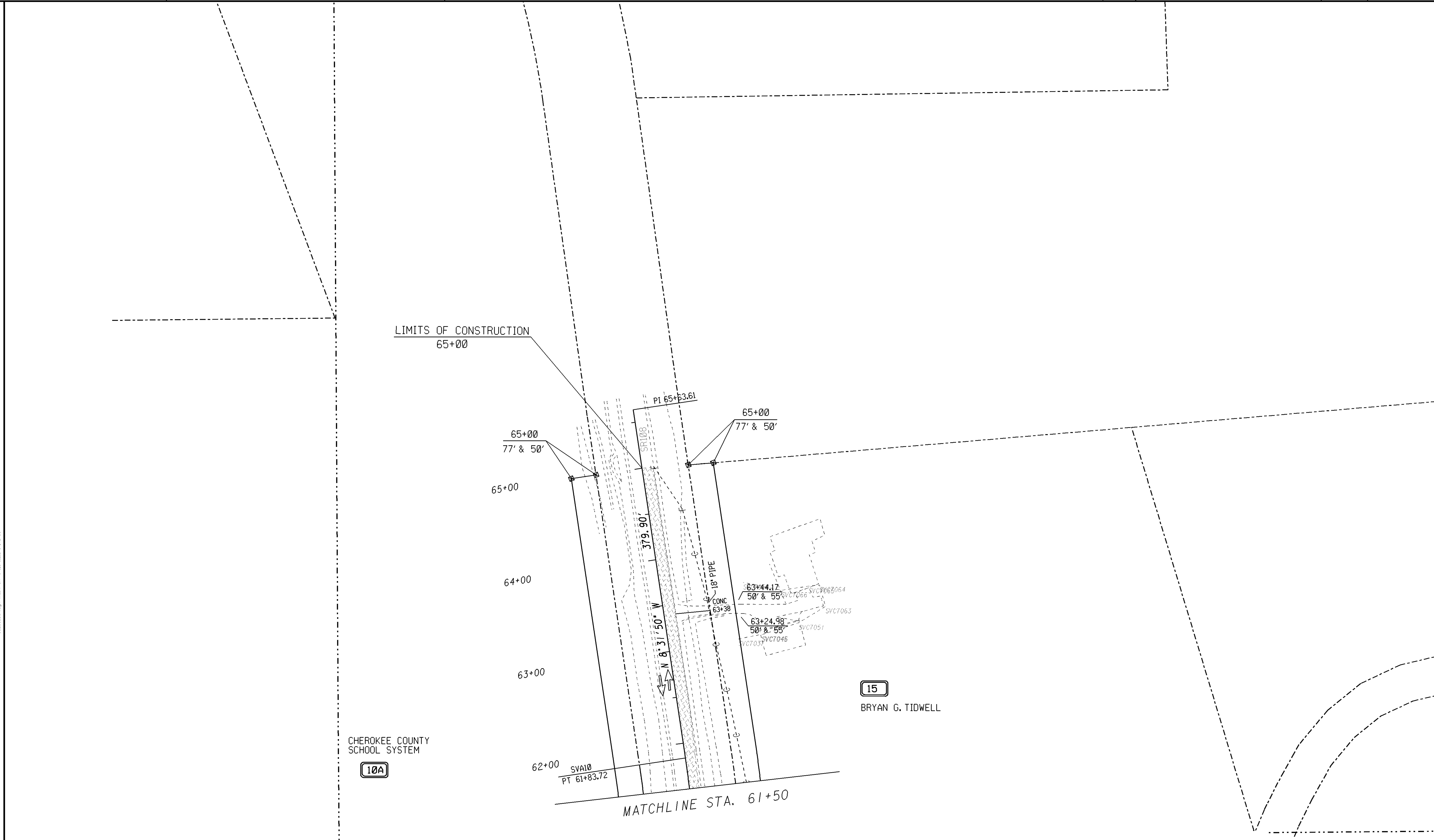
CONSTRUCTION STAGING PLAN

SR108 STAGE 3

DRAWING No. 19-14

1/5/2009 GPLN

2/7/2014 skldd	Fri Feb 07 09:42:43 2014	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108Stage3PlanSheet3.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0, 50, 100, 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

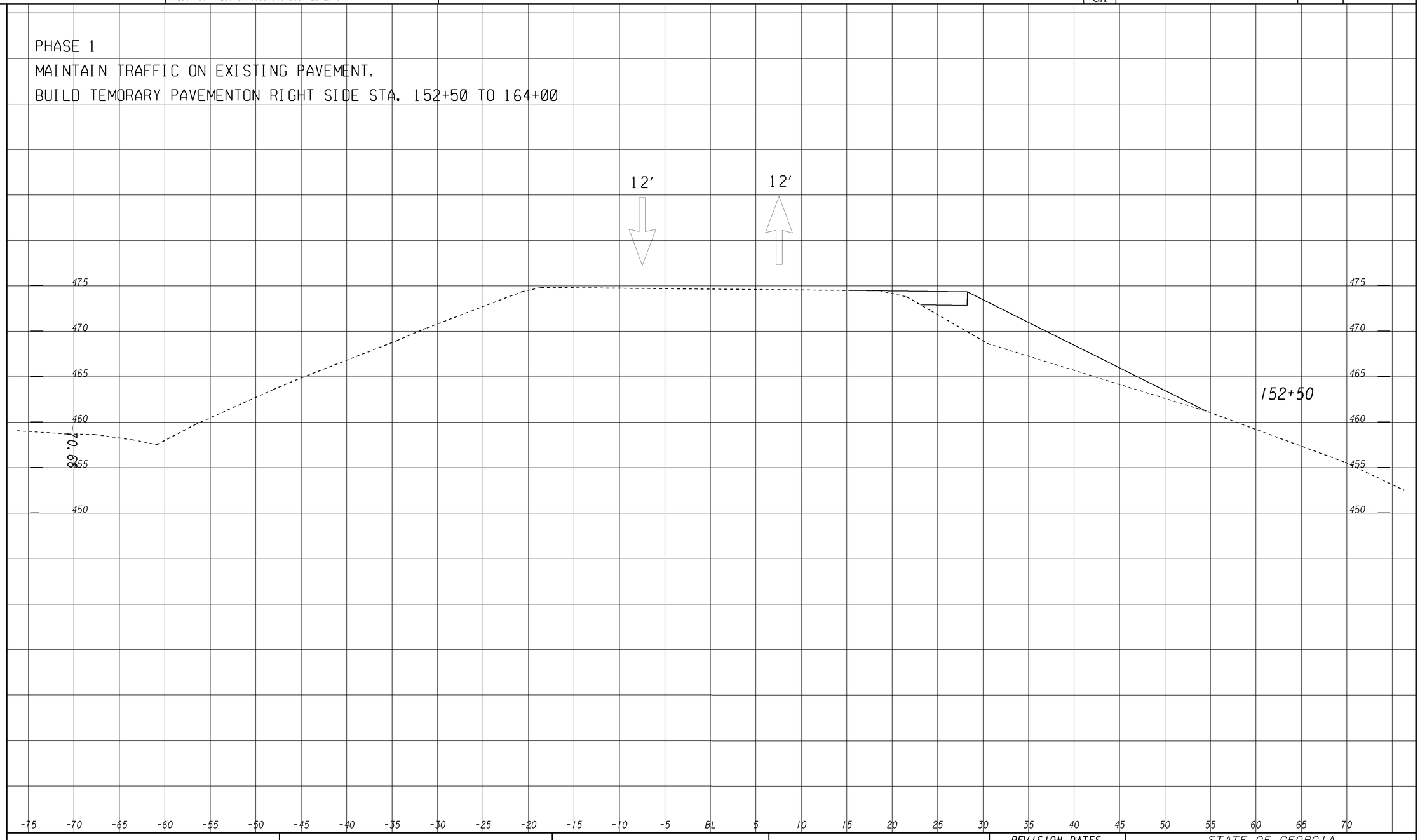
CONSTRUCTION STAGING PLAN

SR108 STAGE 3

DRAWING No. 19-15

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

PHASE 1
MAINTAIN TRAFFIC ON EXISTING PAVEMENT.
BUILD TEMORARY PAVEMENTON RIGHT SIDE STA. 152+50 TO 164+00



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

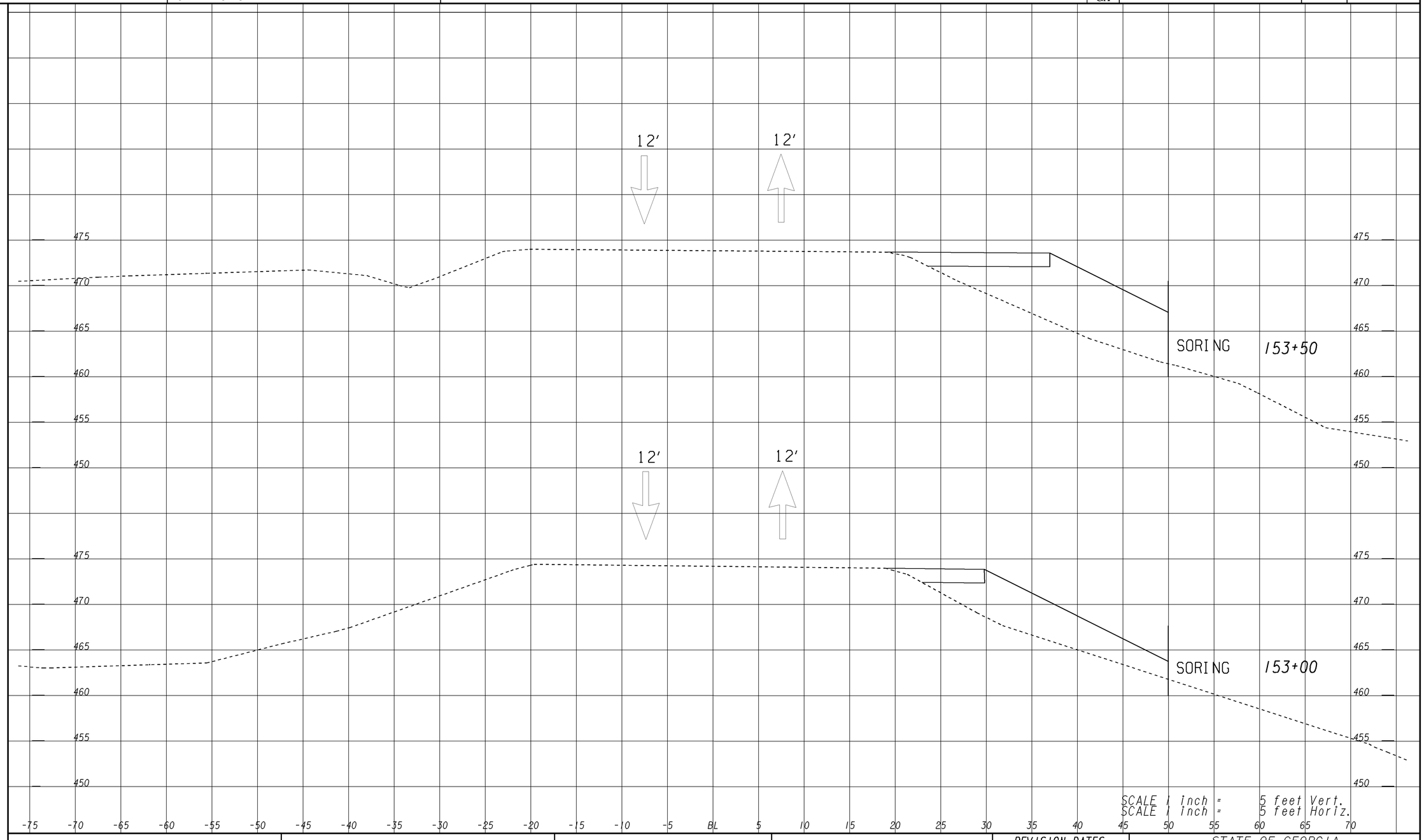
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No.
19 -16

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

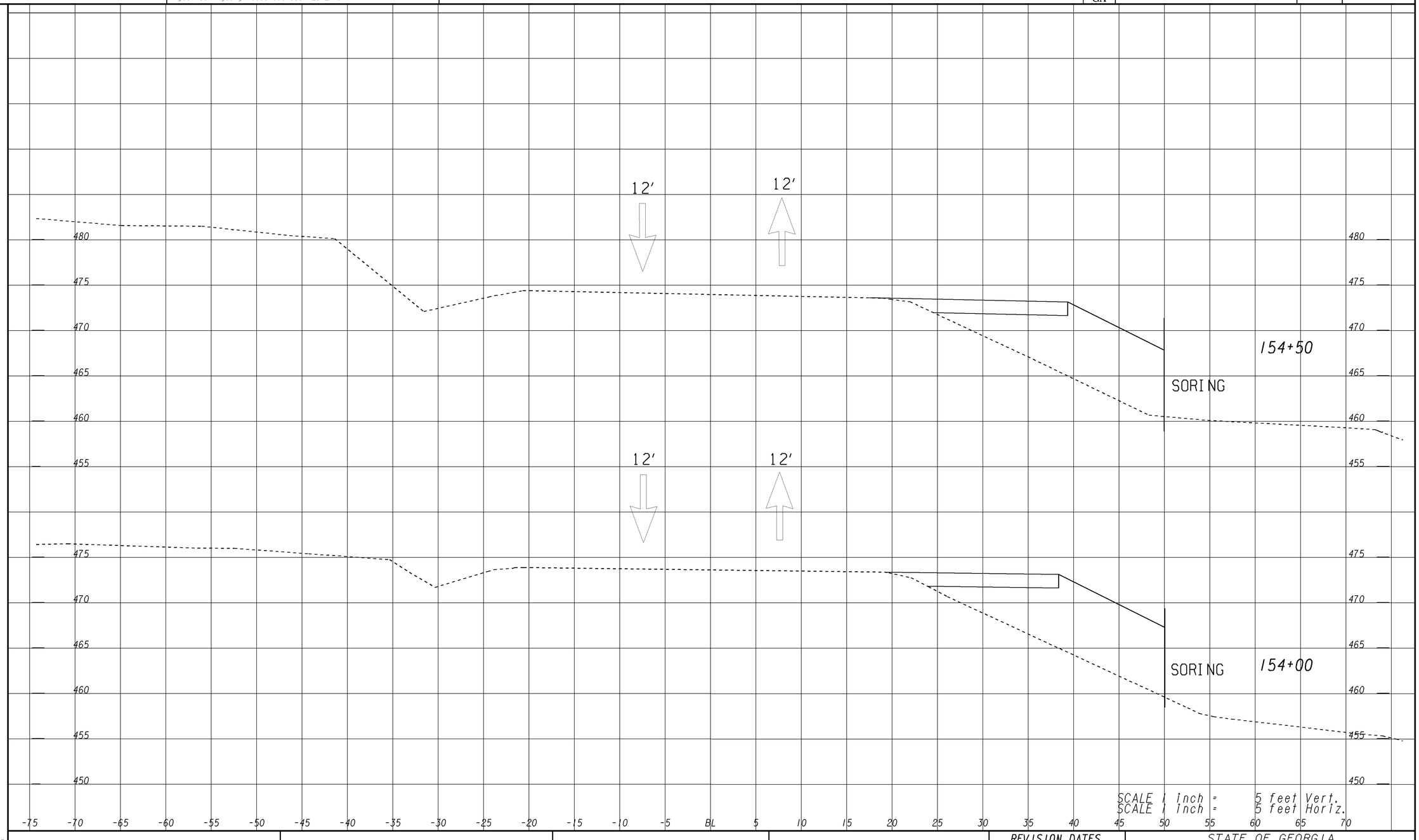
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No.
19 -17

SUXSEW

Fri Feb 07 09:40:55 2014 sk1dd	Fri Feb 07 09:40:55 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

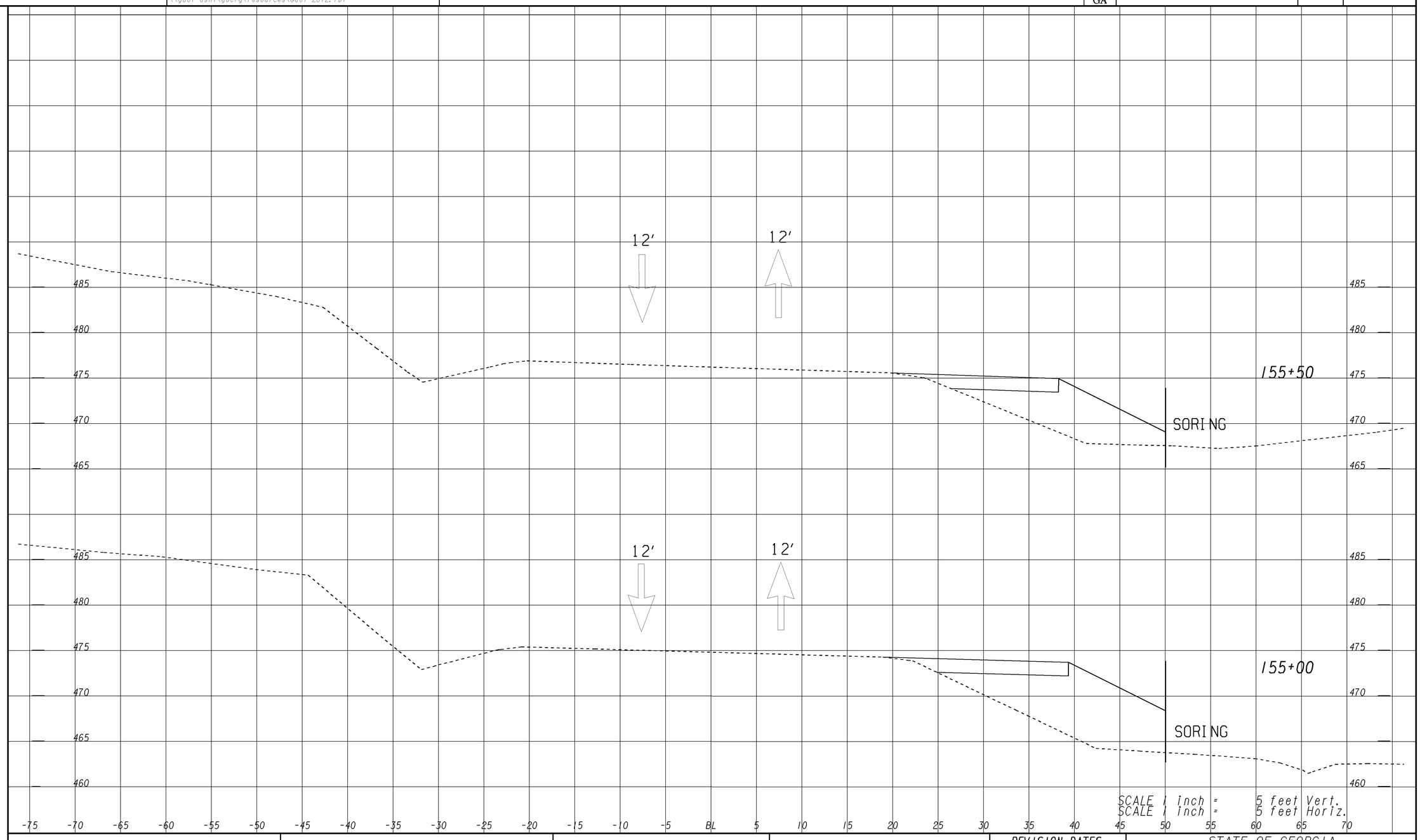
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No.
19 -18

Fri Feb 07 09:40:55 2014 sk1dd	Fri Feb 07 09:40:55 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

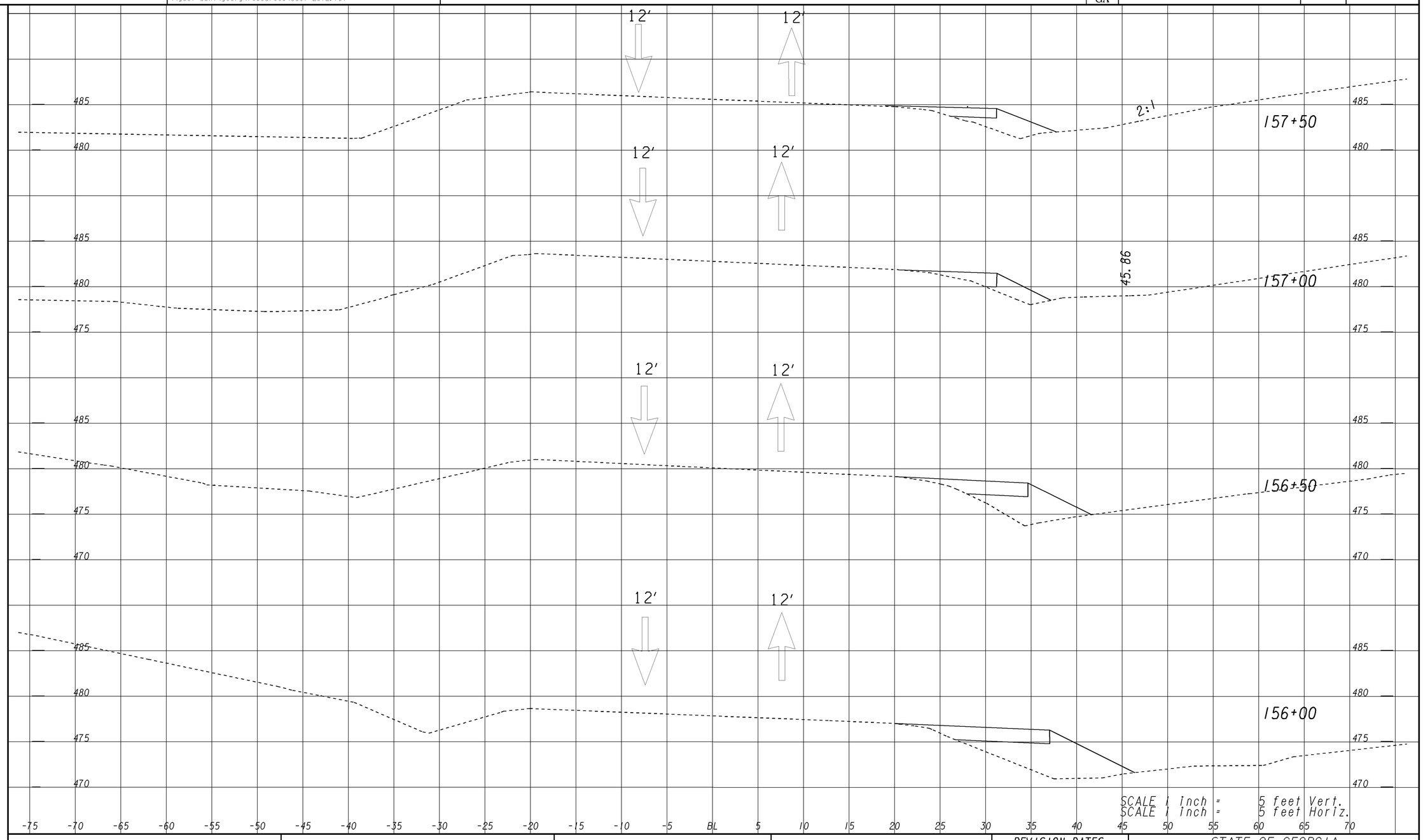
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No. 19 -19

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

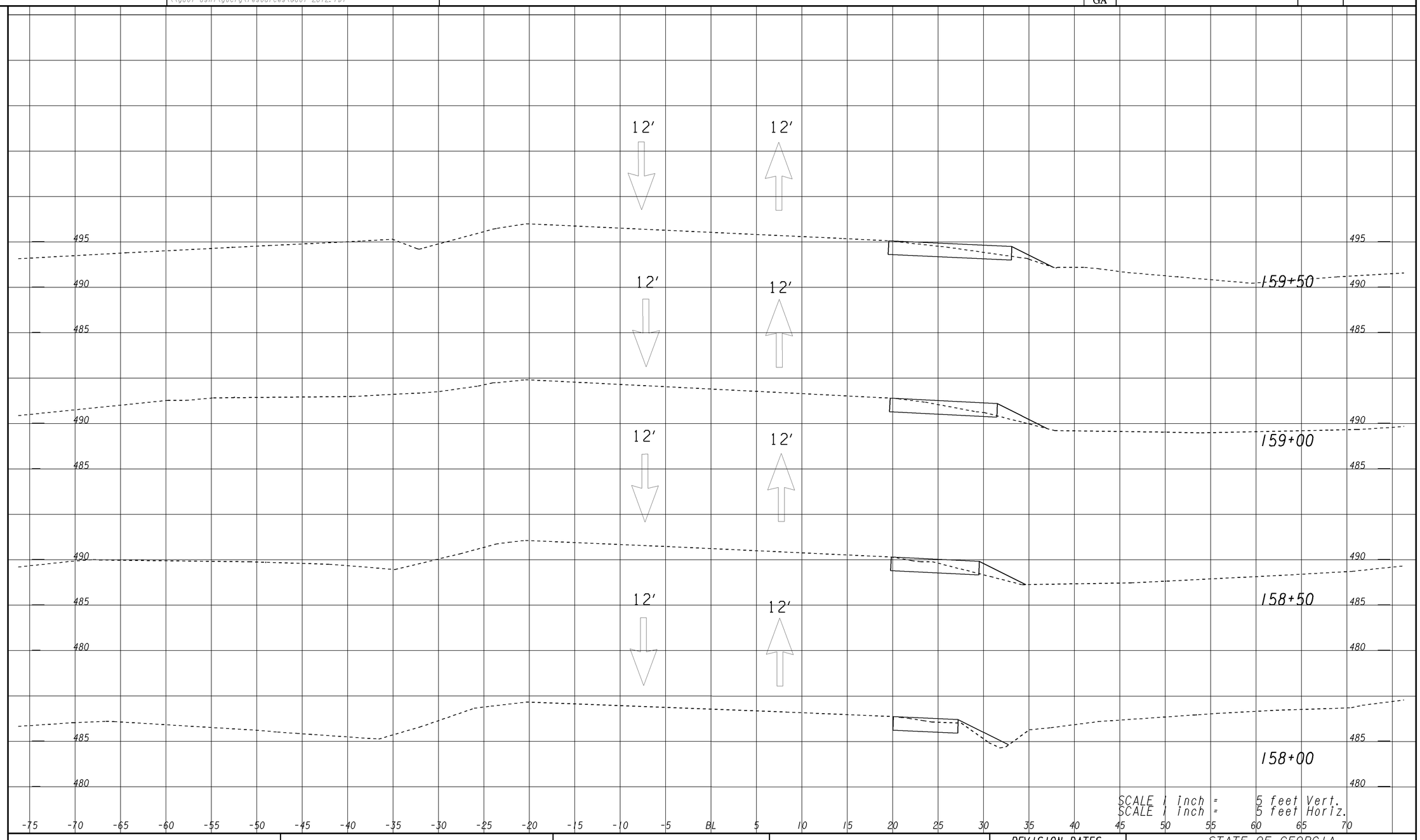
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No. 19 -20

Fri Feb 07 09:40:42 2014 sk1dd	Fri Feb 07 09:40:42 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

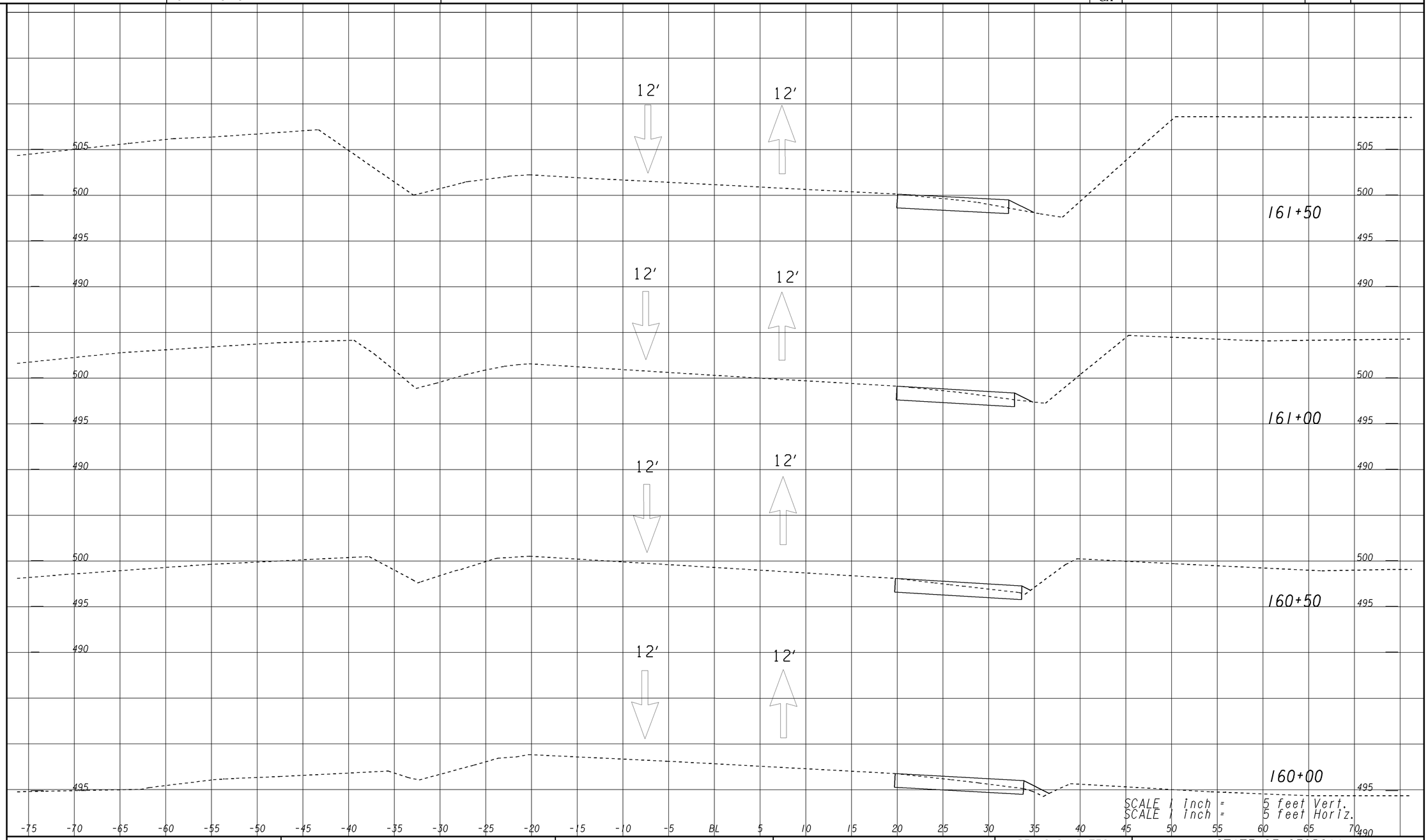
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING NO. 19 -21

SUXSEW

Fri Feb 07 09:40:39 2014 sk1dd	Fri Feb 07 09:40:39 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

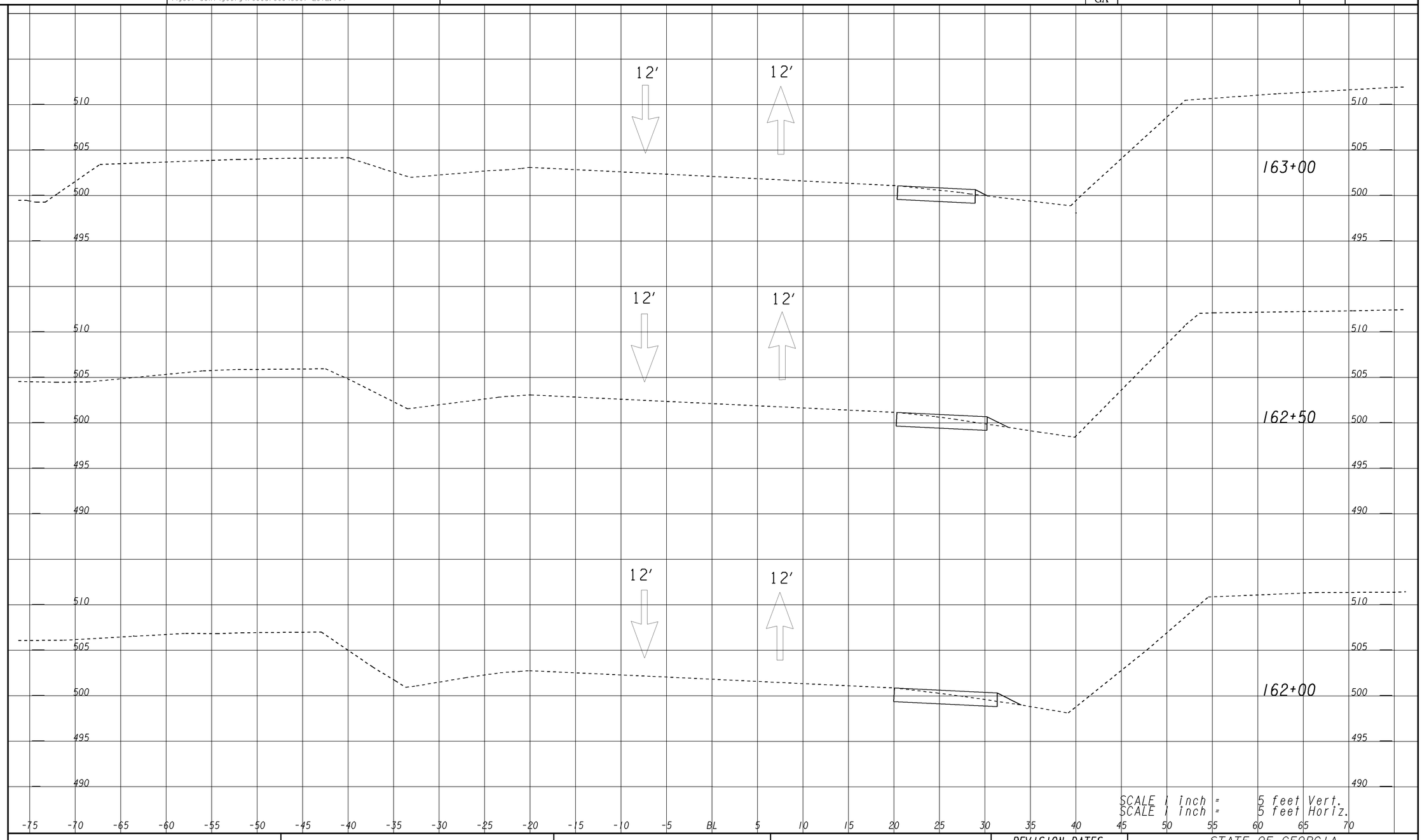
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING NO.
19 -22

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

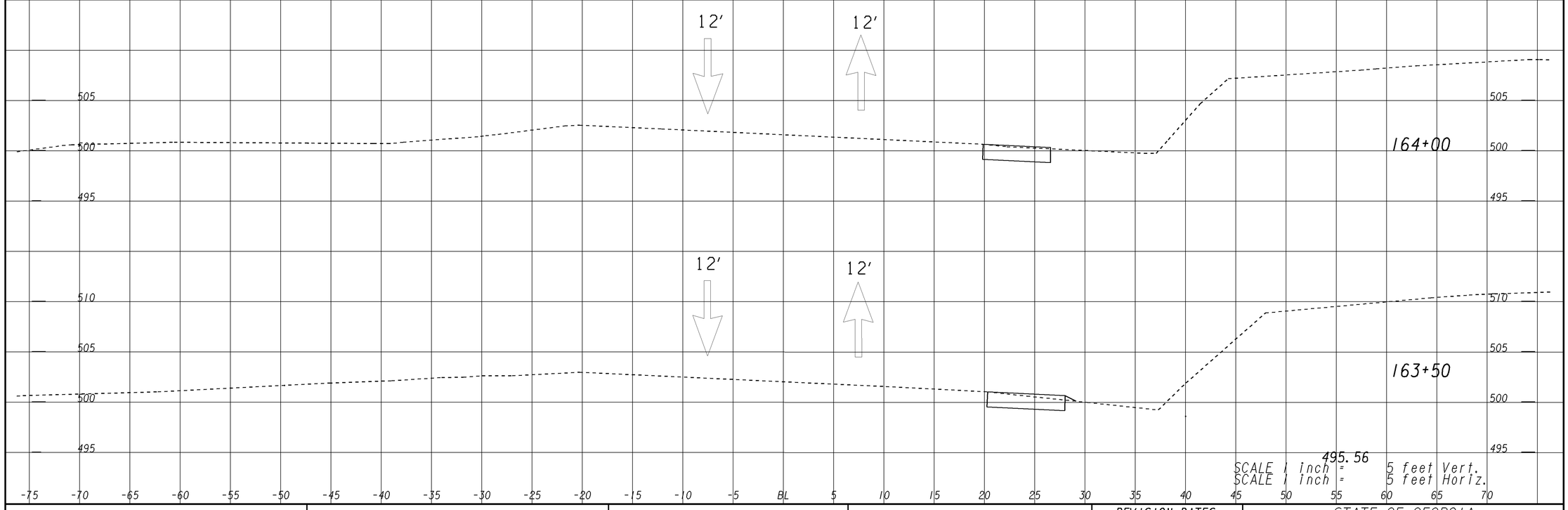
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No.
19 -23

SUXSEW

Fri Feb 07 09:40:35 2014 skldd	Fri Feb 07 09:40:35 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

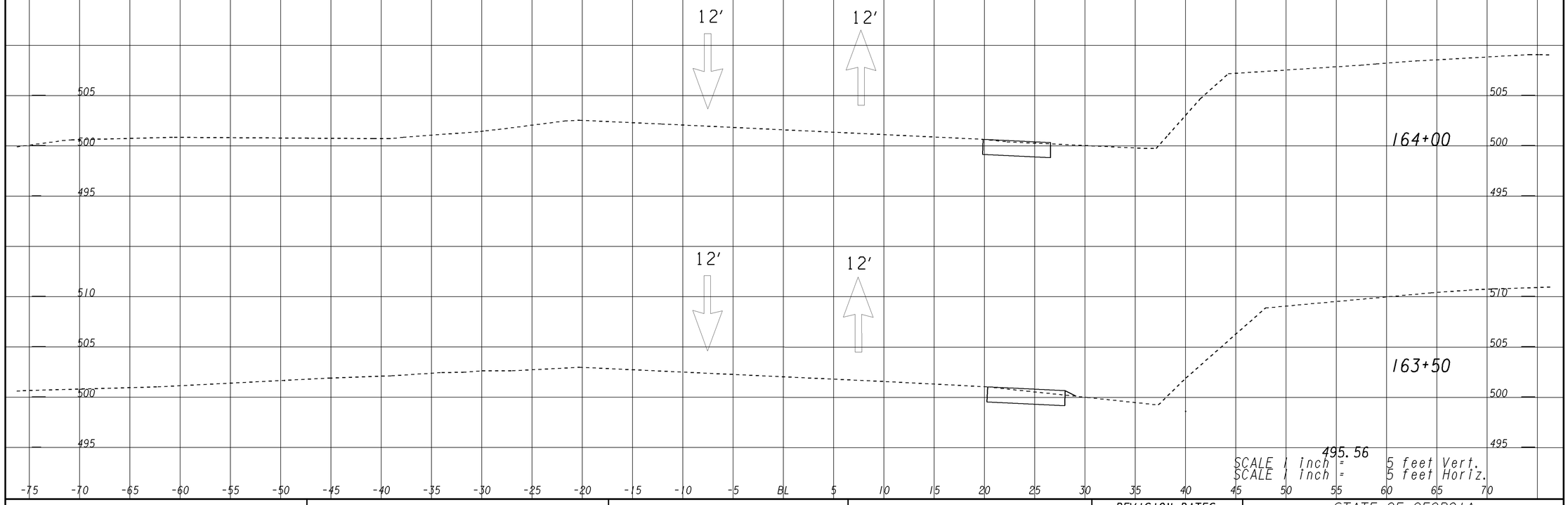
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No. 19 -24

Fri Feb 07 09:40:33 2014 skldd	Fri Feb 07 09:40:33 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



495.56

SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

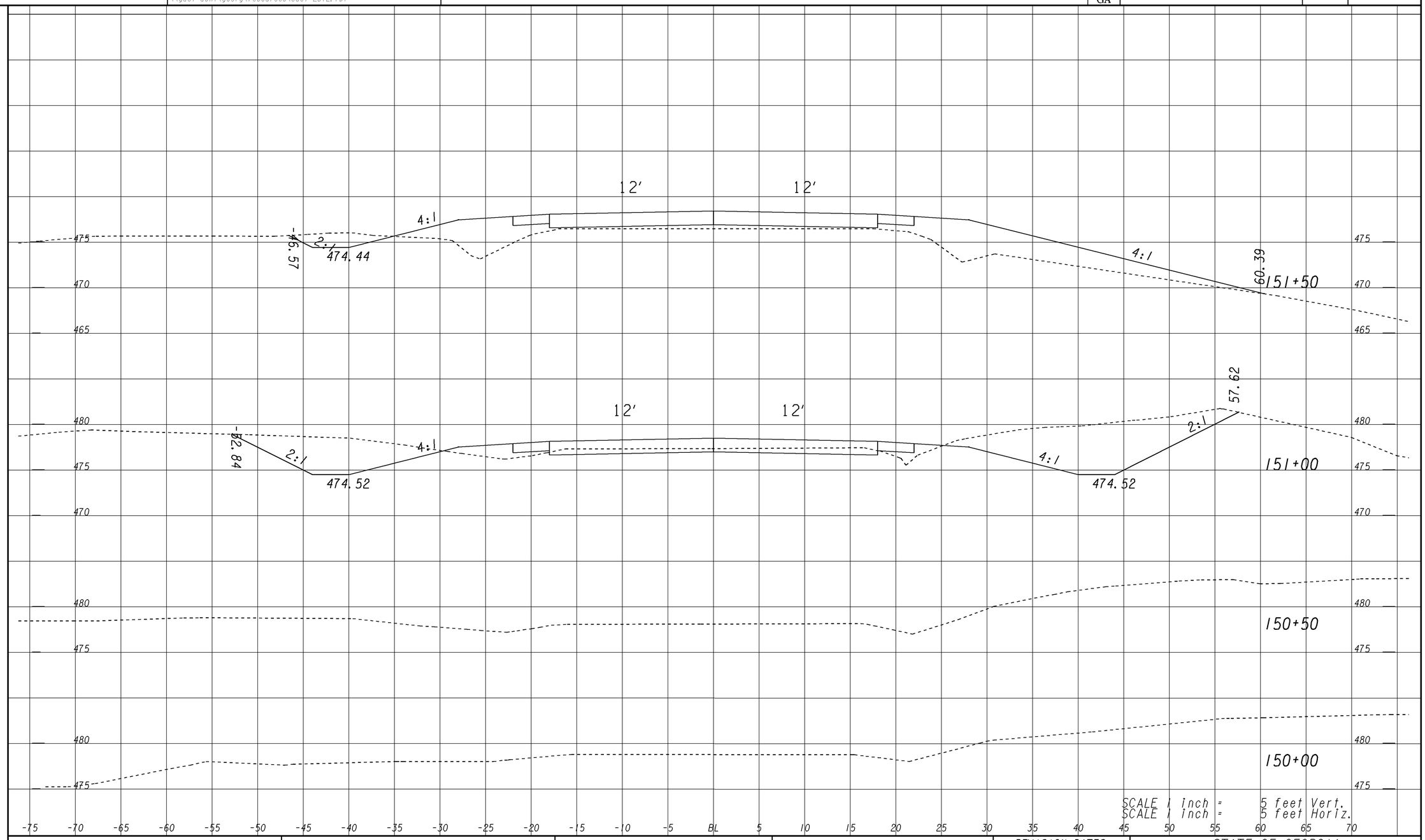
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 1

DRAWING No. 19 -24

Fri Feb 07 09:40:31 2014 skldd	Fri Feb 07 09:40:31 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

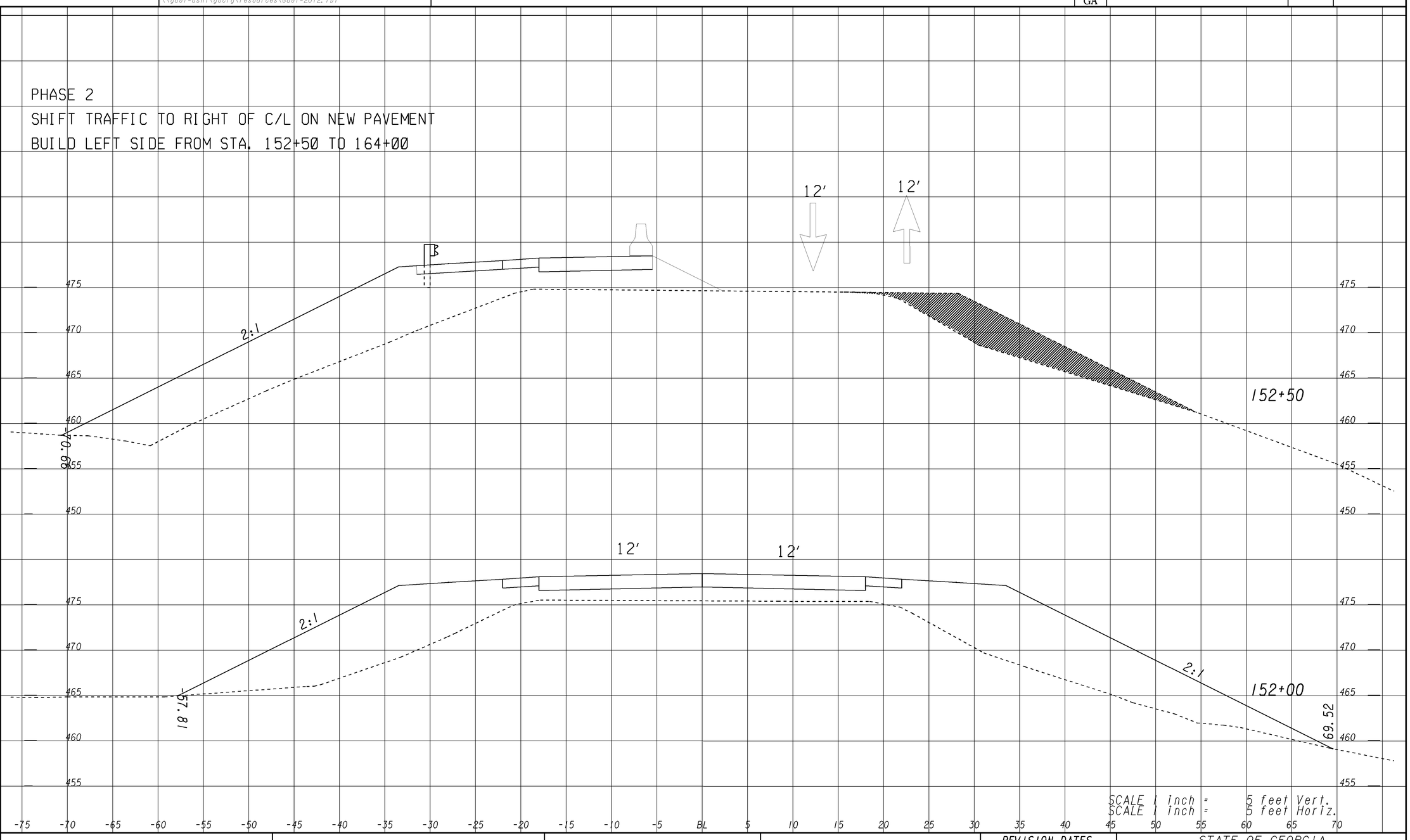
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING No. 19 -25

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

PHASE 2
SHIFT TRAFFIC TO RIGHT OF C/L ON NEW PAVEMENT
BUILD LEFT SIDE FROM STA. 152+50 TO 164+00



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

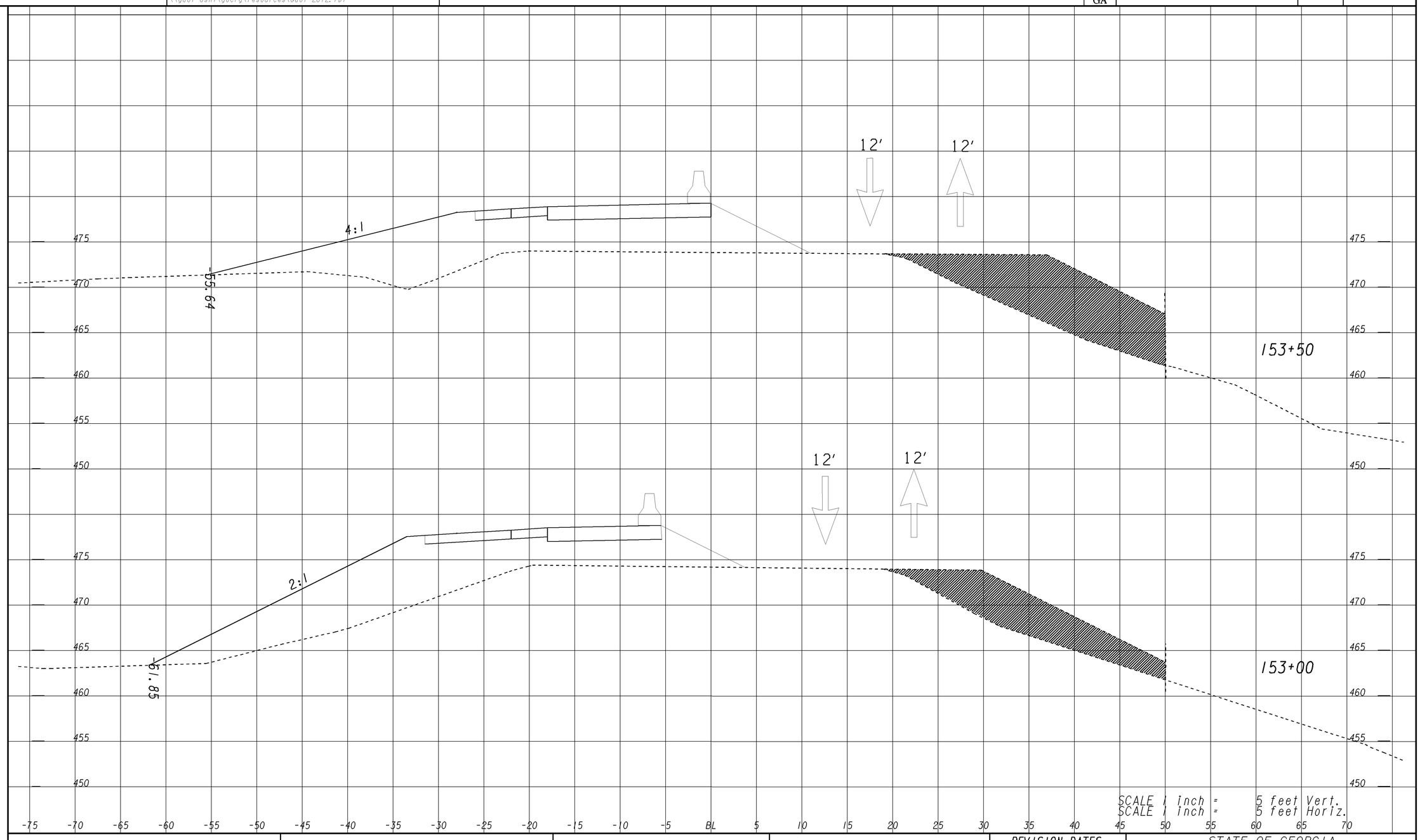
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING No.
19 -26

SUXSEW

Fri Feb 07 09:41:38 2014 sk1dd	Fri Feb 07 09:41:38 2014 \\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

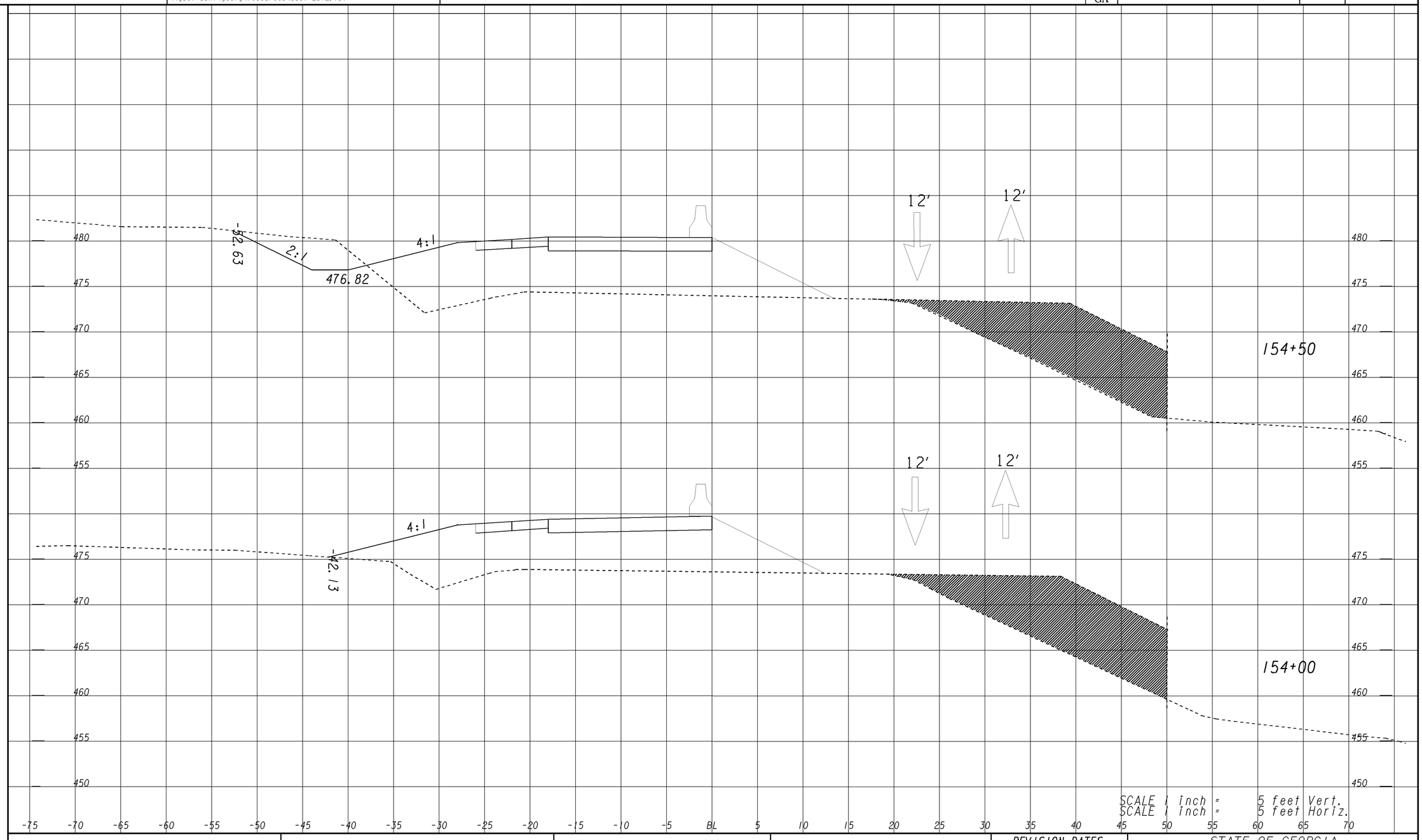
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING No.
19 -27

Fri Feb 07 09:41:36 2014 Fri Feb 07 09:41:36 2014
sk1dd
\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl
C:\dgn\662650\662650SR20XsecStage-2.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

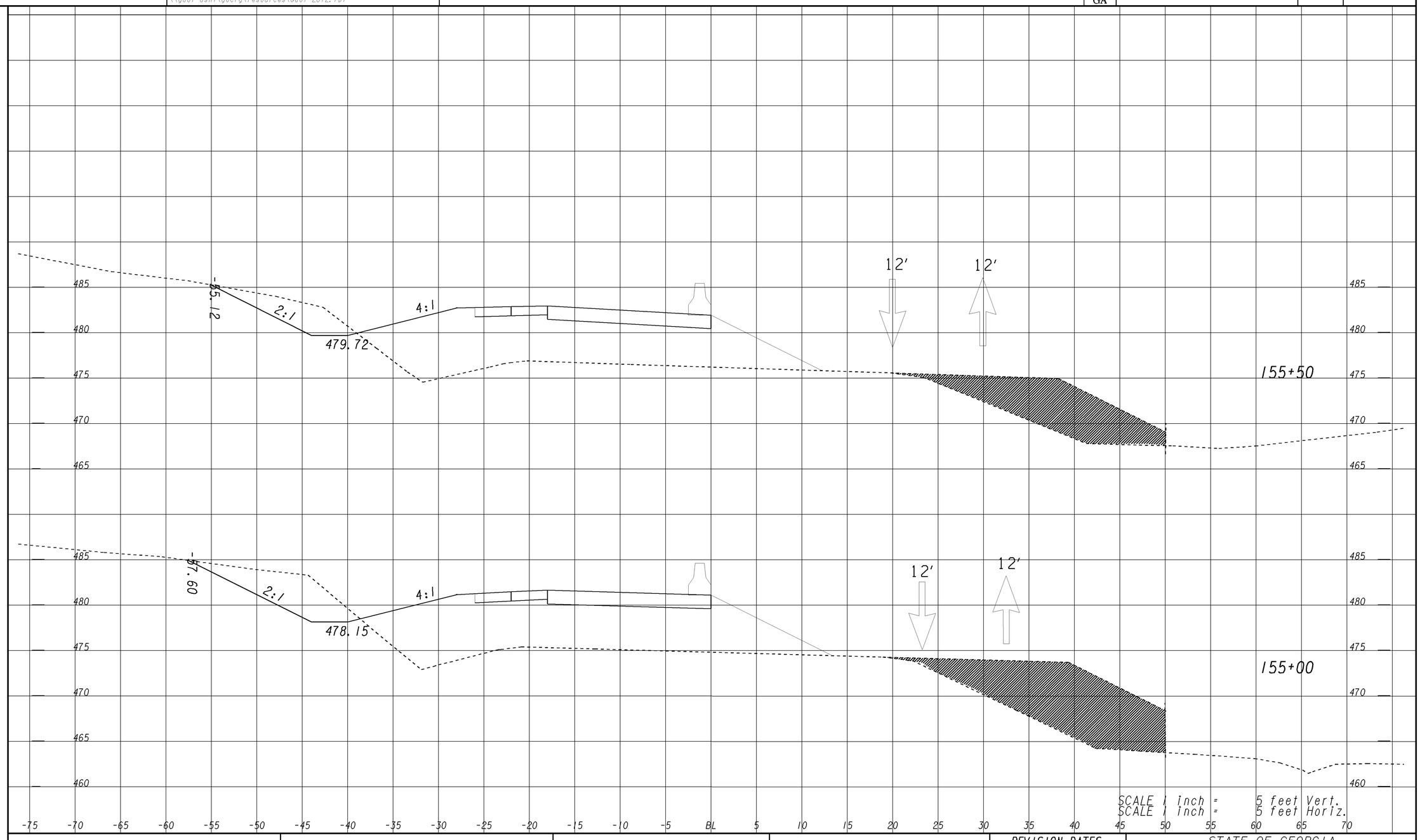
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING No.
19 -28

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

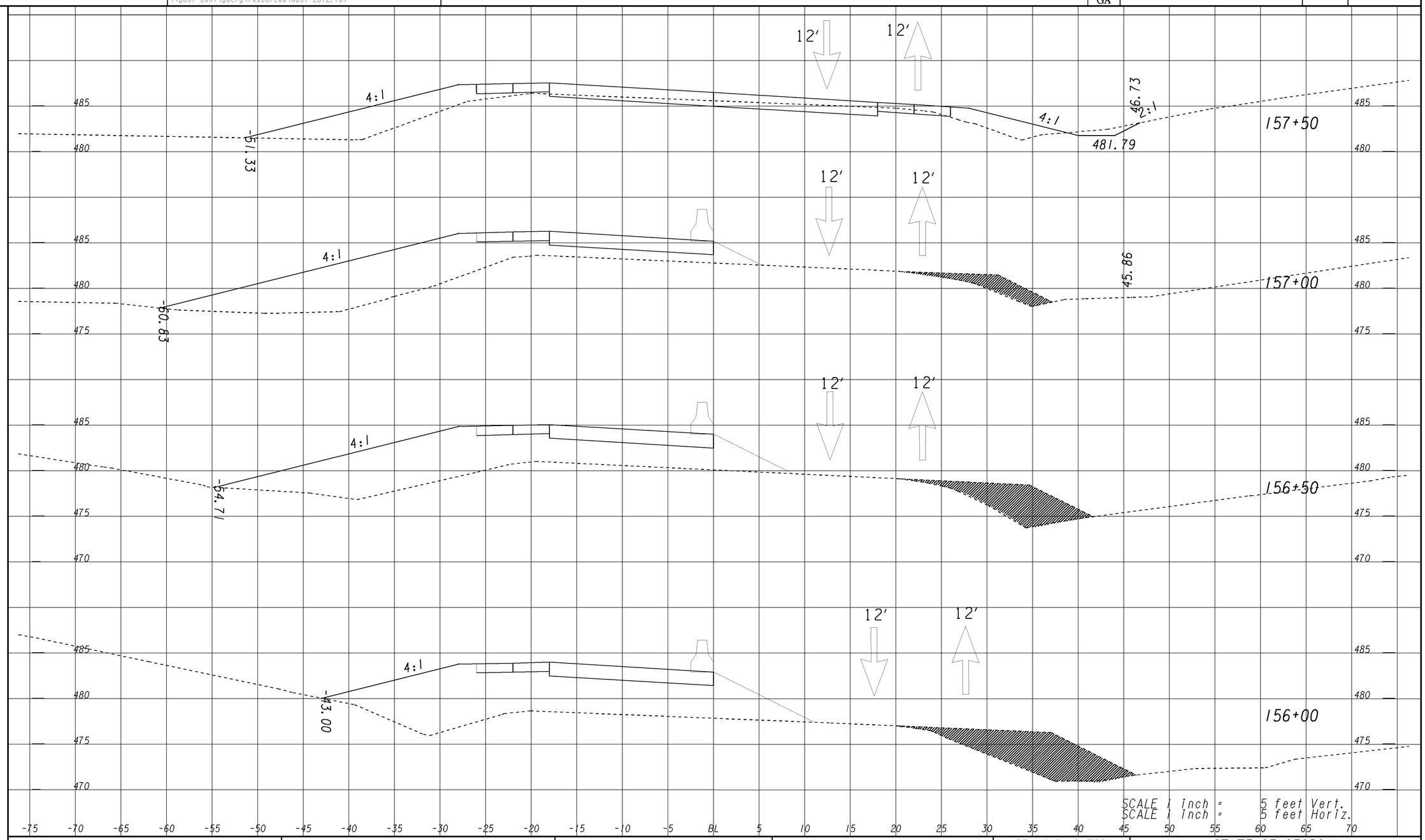
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING No. 19 -29

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

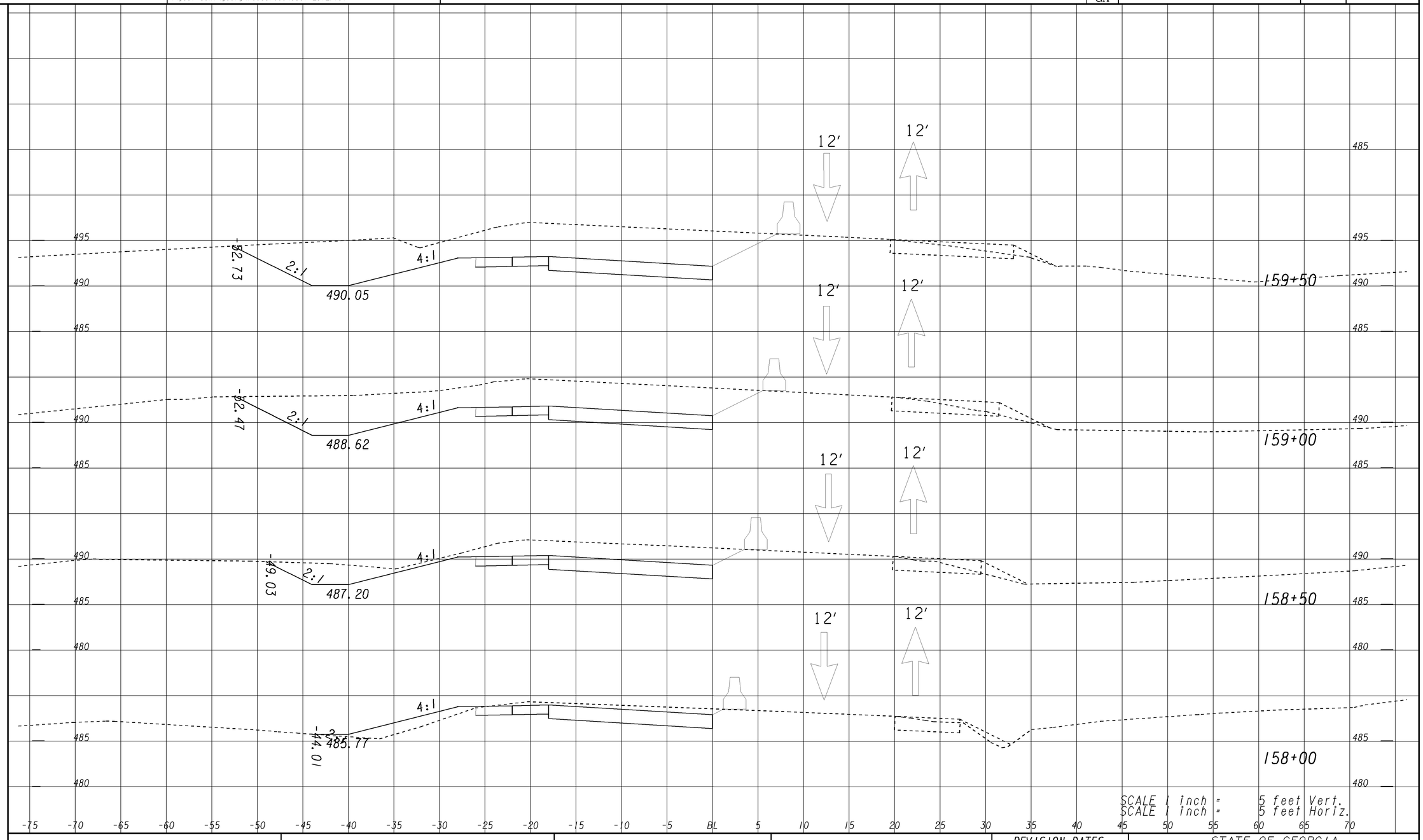
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING NO. 19 -30

SUXSEW

Fri Feb 07 09:41:30 2014 sk1dd	Fri Feb 07 09:41:30 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

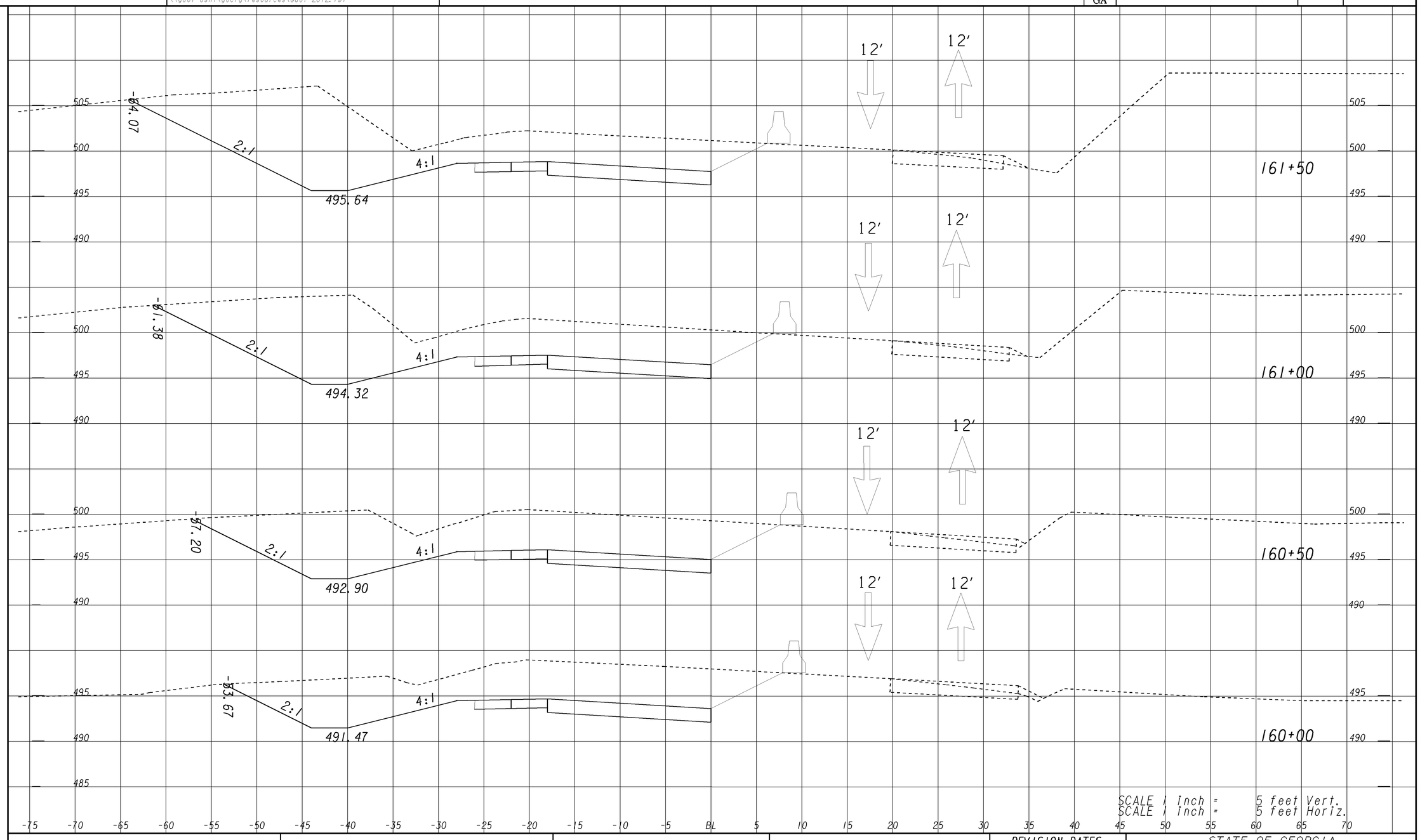
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING NO. 19 -31

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

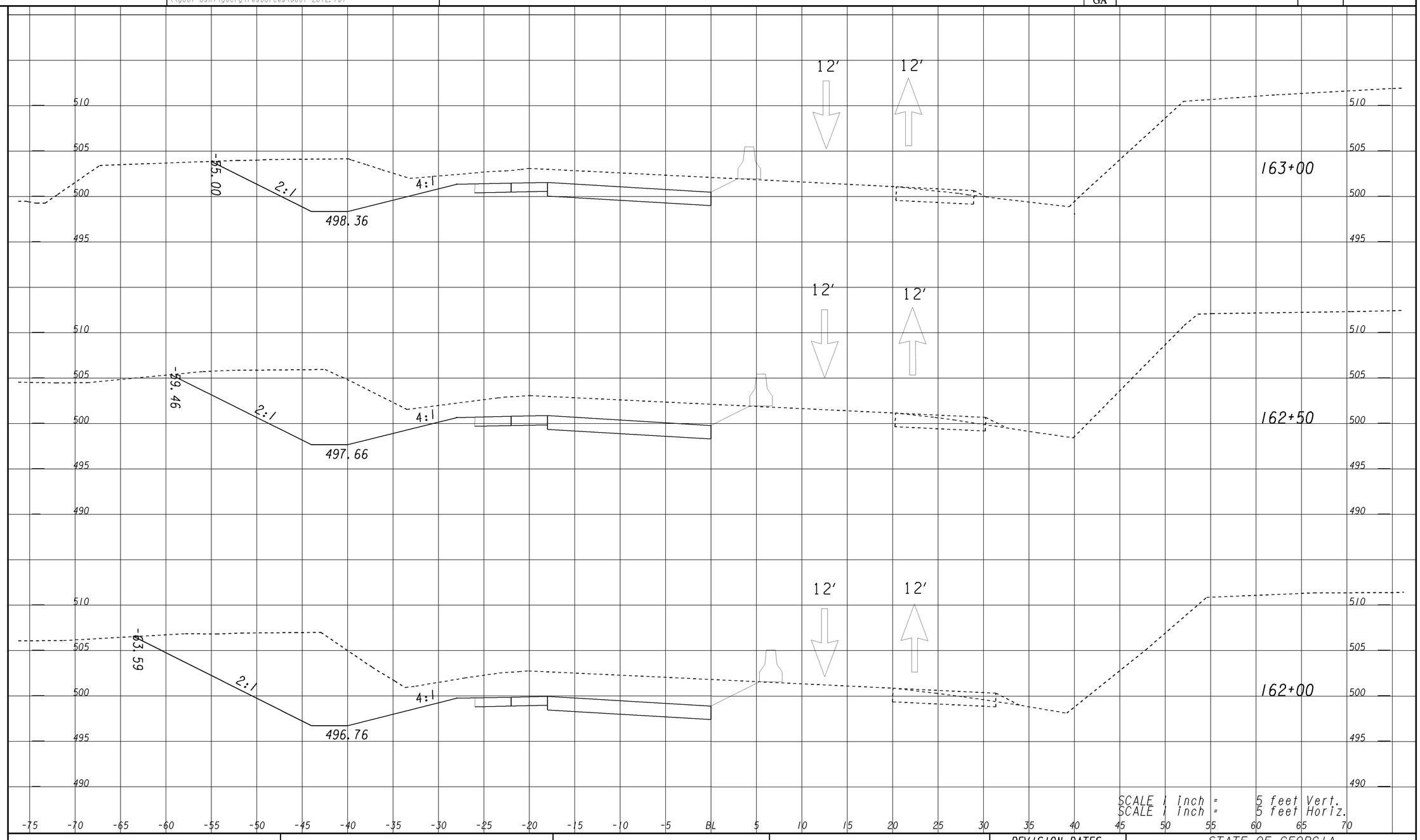
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING NO.
19 -32



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

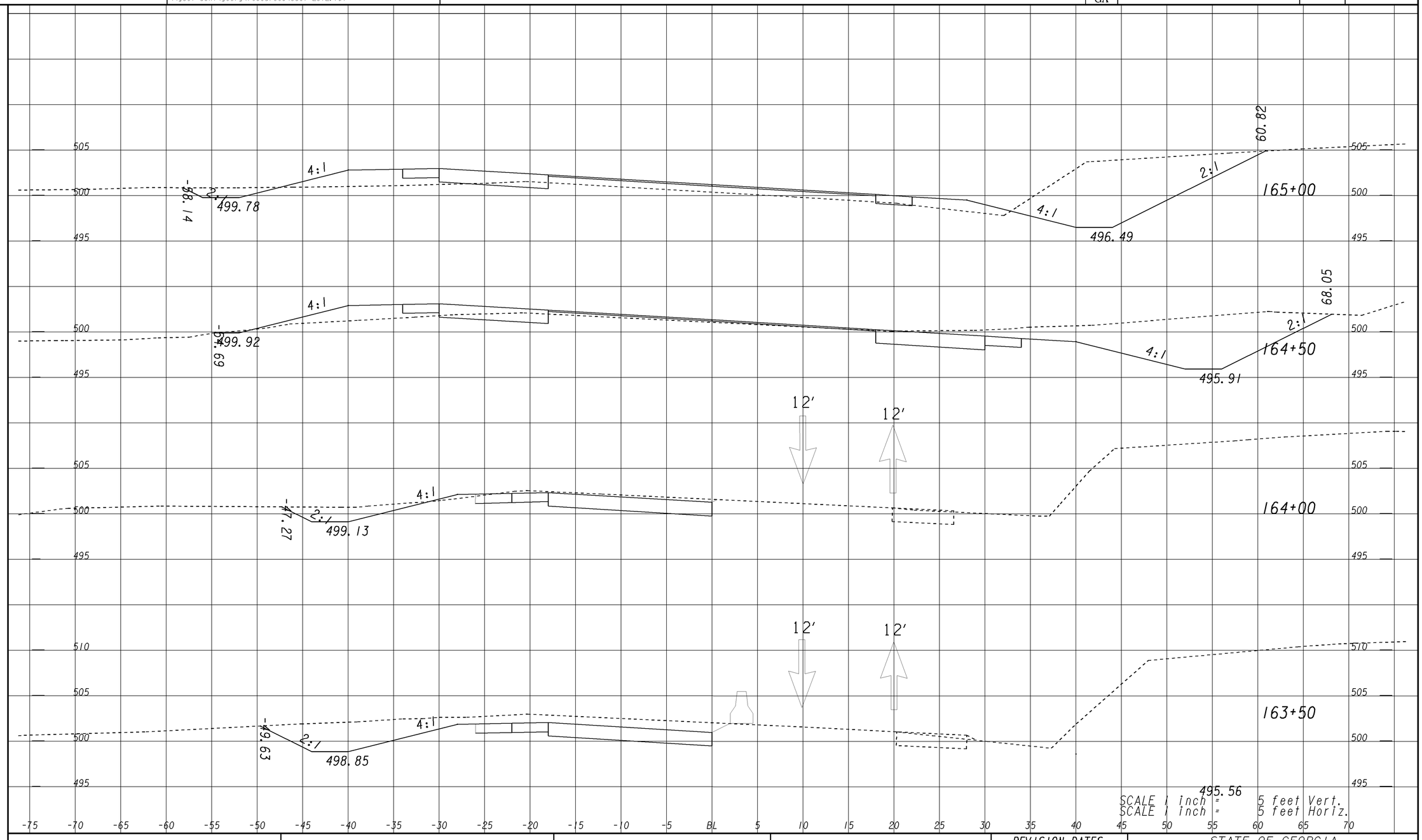
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING No. 19 -33

Fri Feb 07 09:41:27 2014 sk1dd	Fri Feb 07 09:41:27 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 2

DRAWING NO. 19 -34

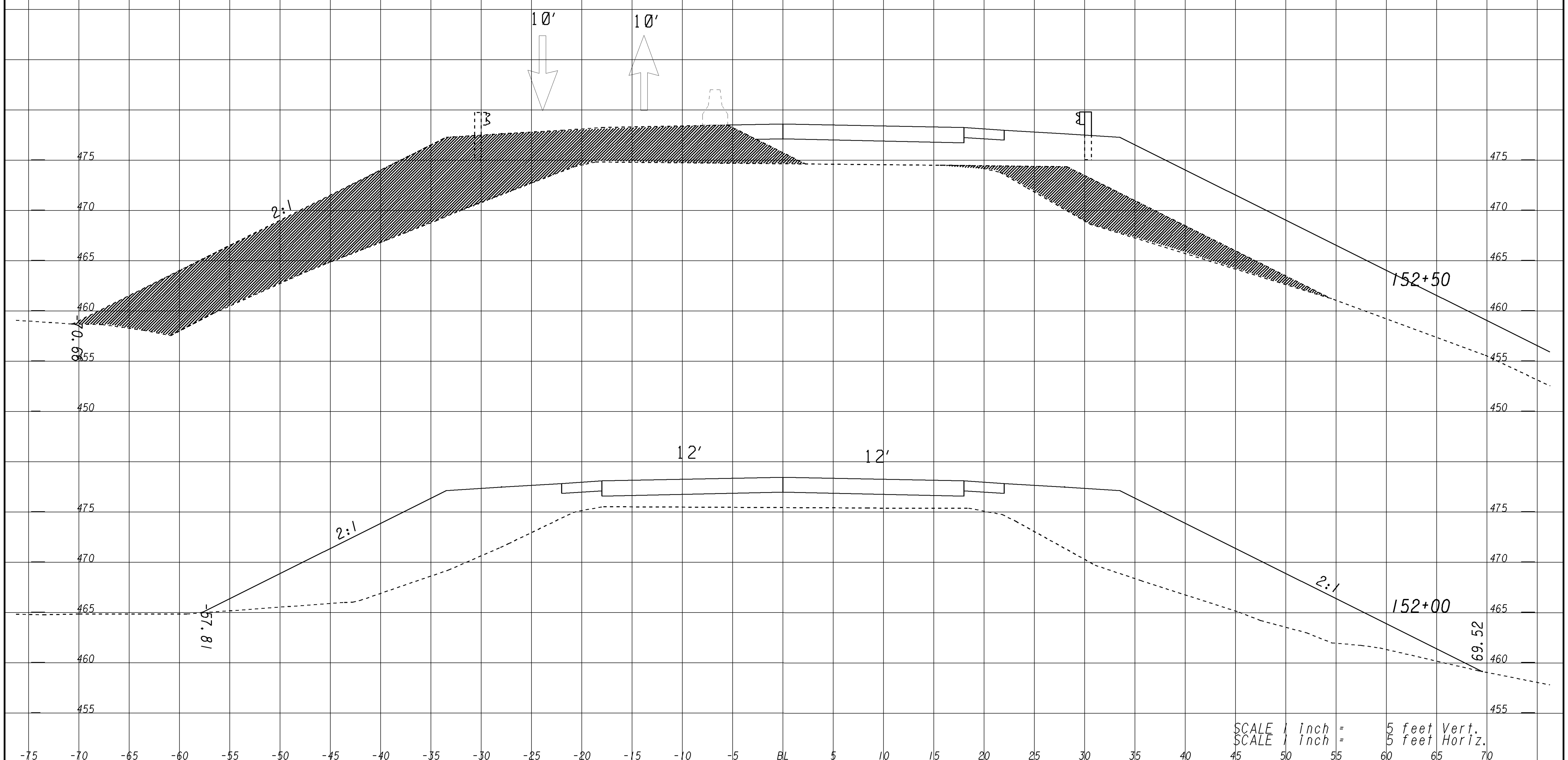
Fri Feb 07 09:41:25 2014 skldd | Fri Feb 07 09:41:26 2014 \\gdot-dsni\gocfg\resources\Gdot-2012.tbl | C:\dgn\662650\662650SR20XsecStage-3.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

PHASE 3

SHIFT TRAFFIC TO COMPLETED LEFT OF C/L

REMOVE TEMPORARY PAVEMENT AND BUILD RIGHT SIDE STA. 152+50 - 164+00



GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET 0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

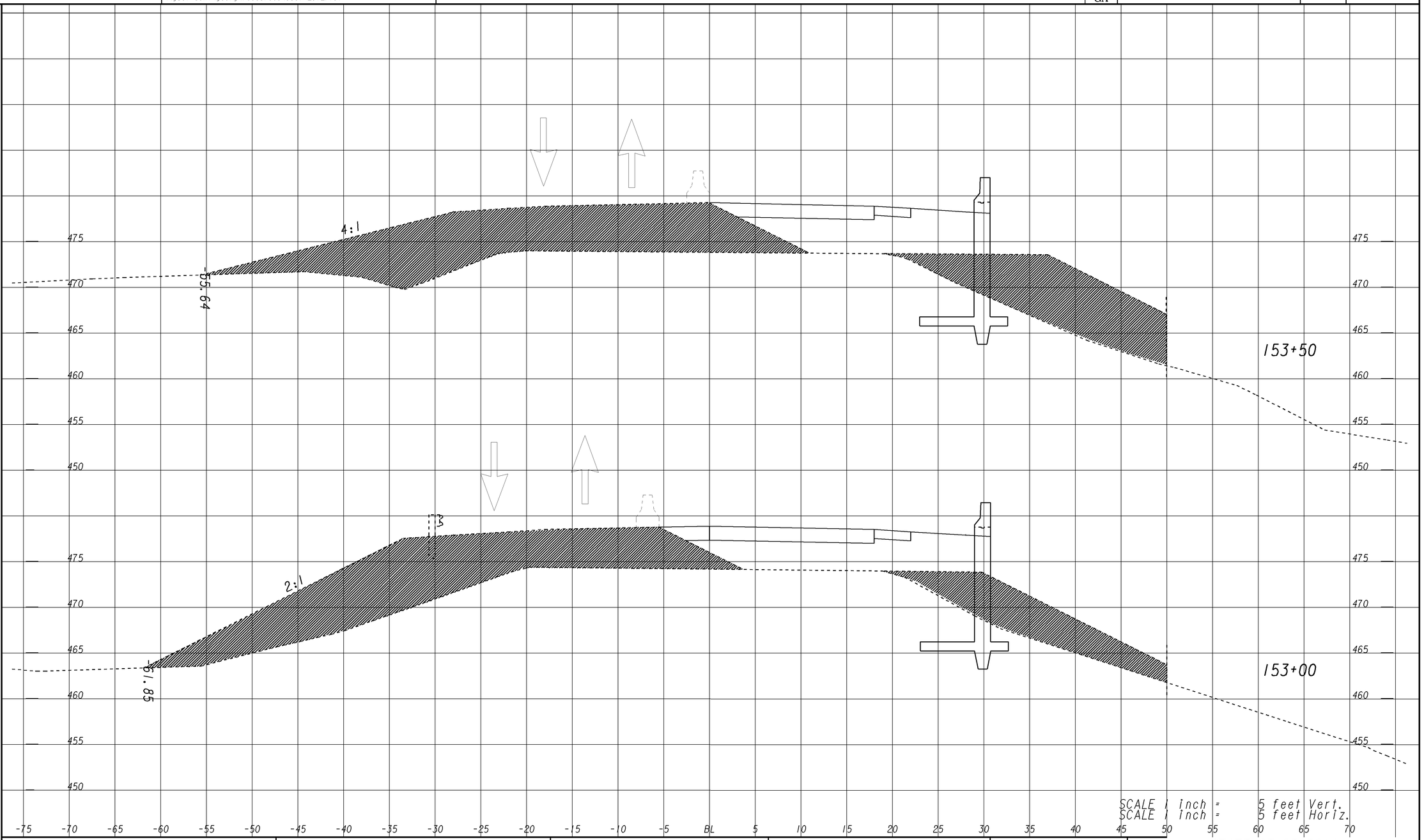
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS STAGE 3

DRAWING No. 19 -36

Fri Feb 07 09:41:26 2014 sk1dd	Fri Feb 07 09:41:26 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

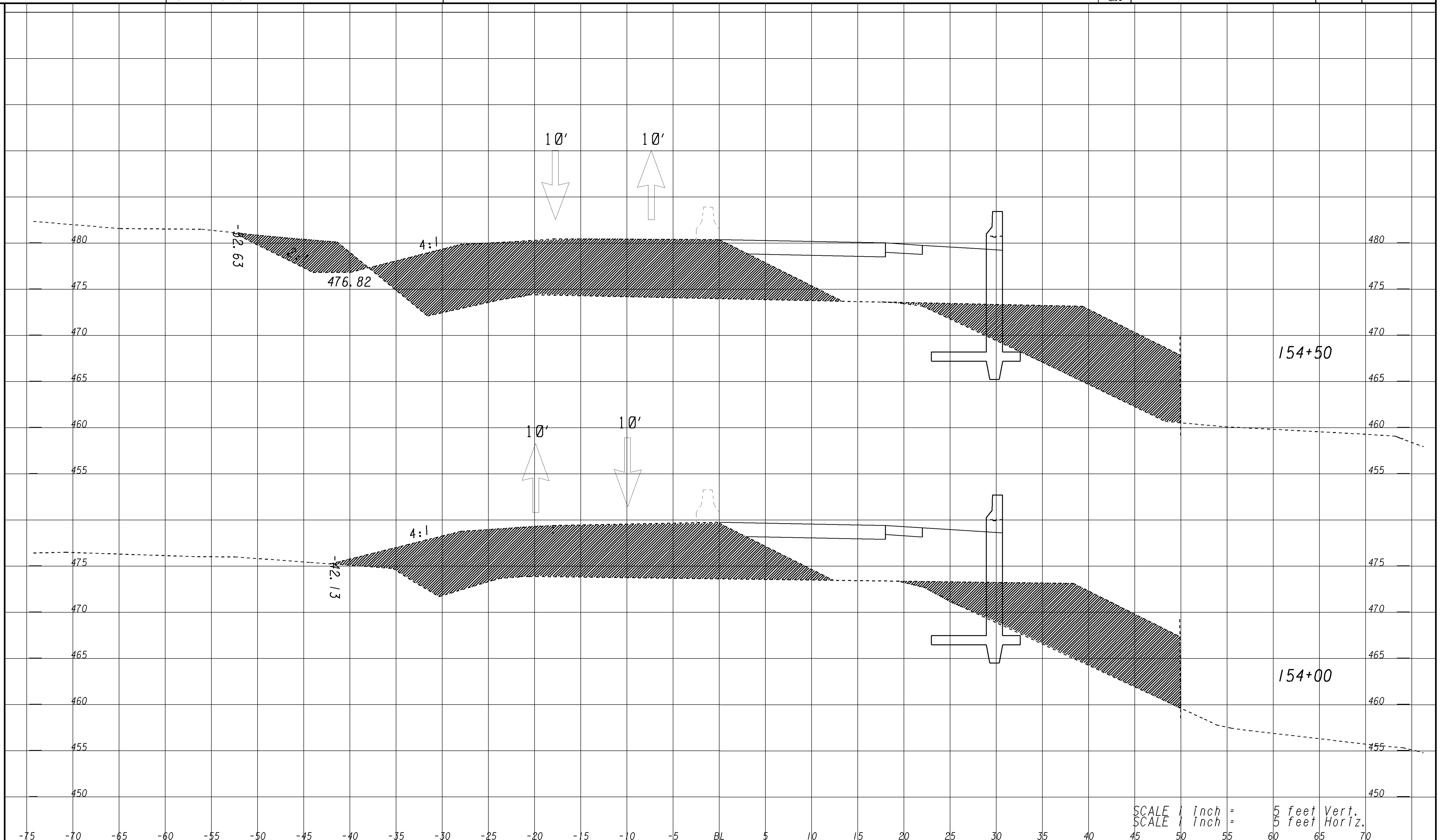
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING No.
19 -37

SUXSEW

Fri Feb 07 09:41:26 2014 skldd	Fri Feb 07 09:41:26 2014 \\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



GEORGIA
DEPARTMENT
OF
TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

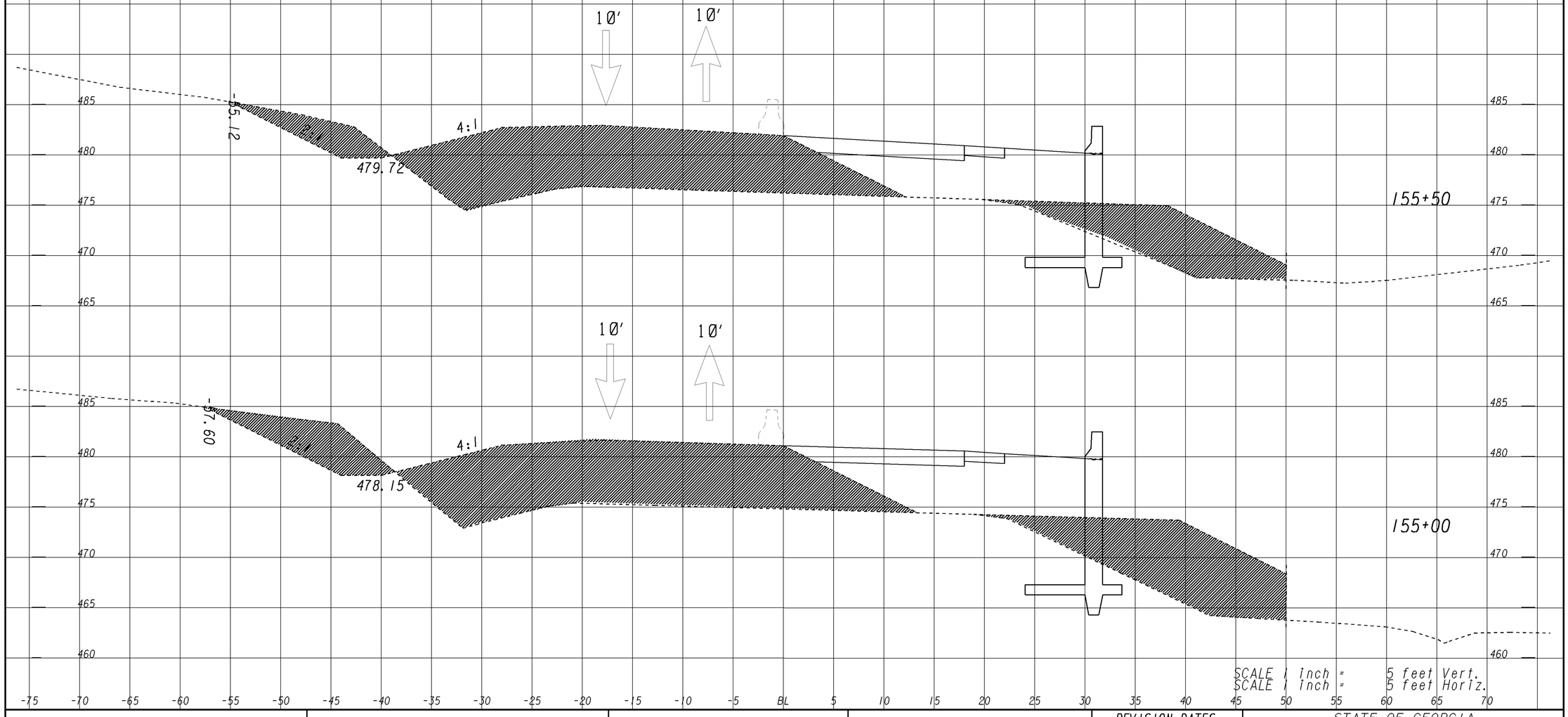
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING No.
19 -38

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

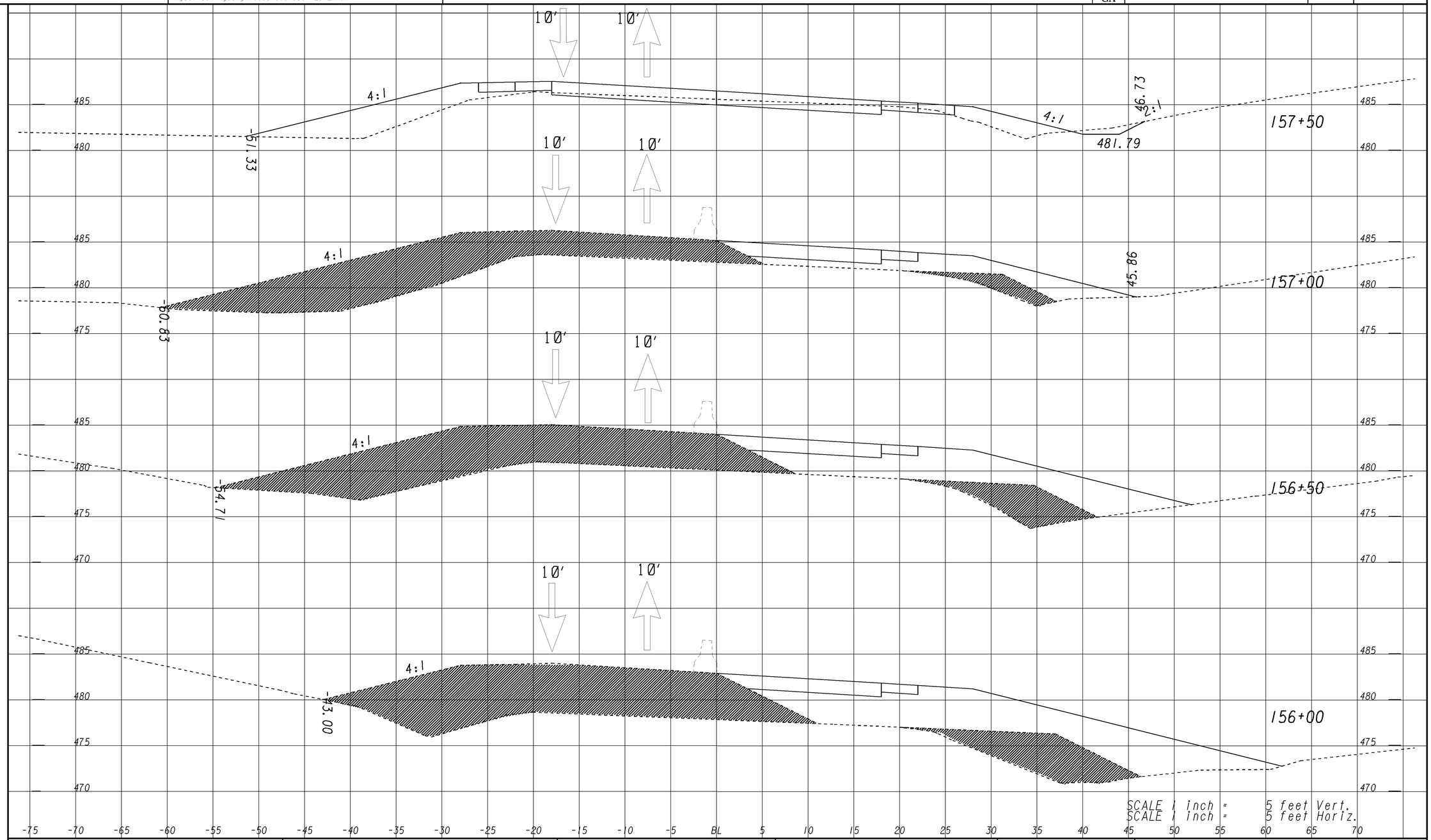
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING No.
19 -39

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

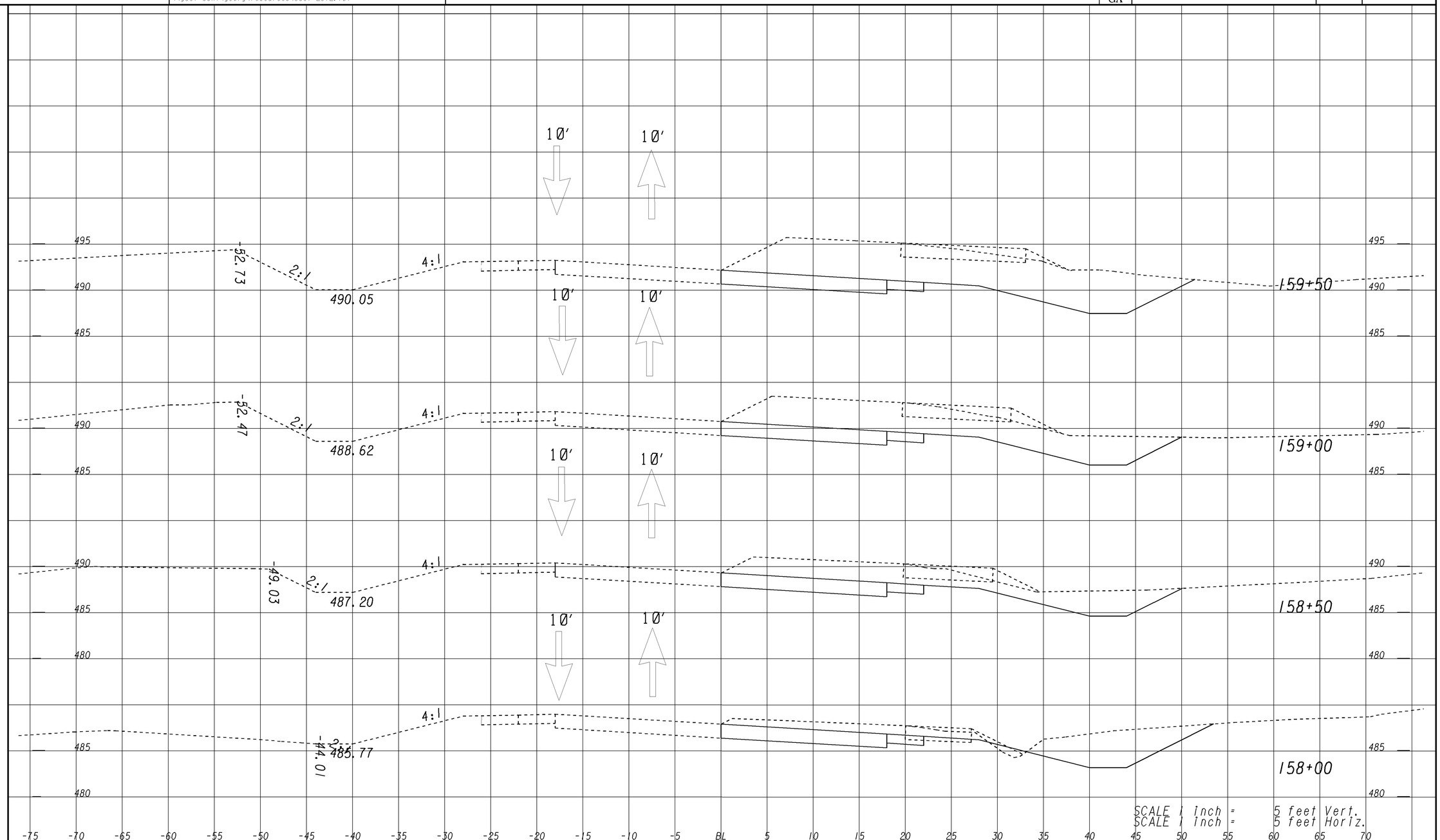
STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING No. 19 -40

SUXSEW

Fri Feb 07 09:42:26 2014 sk1dd	Fri Feb 07 09:42:26 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-3.DGN	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

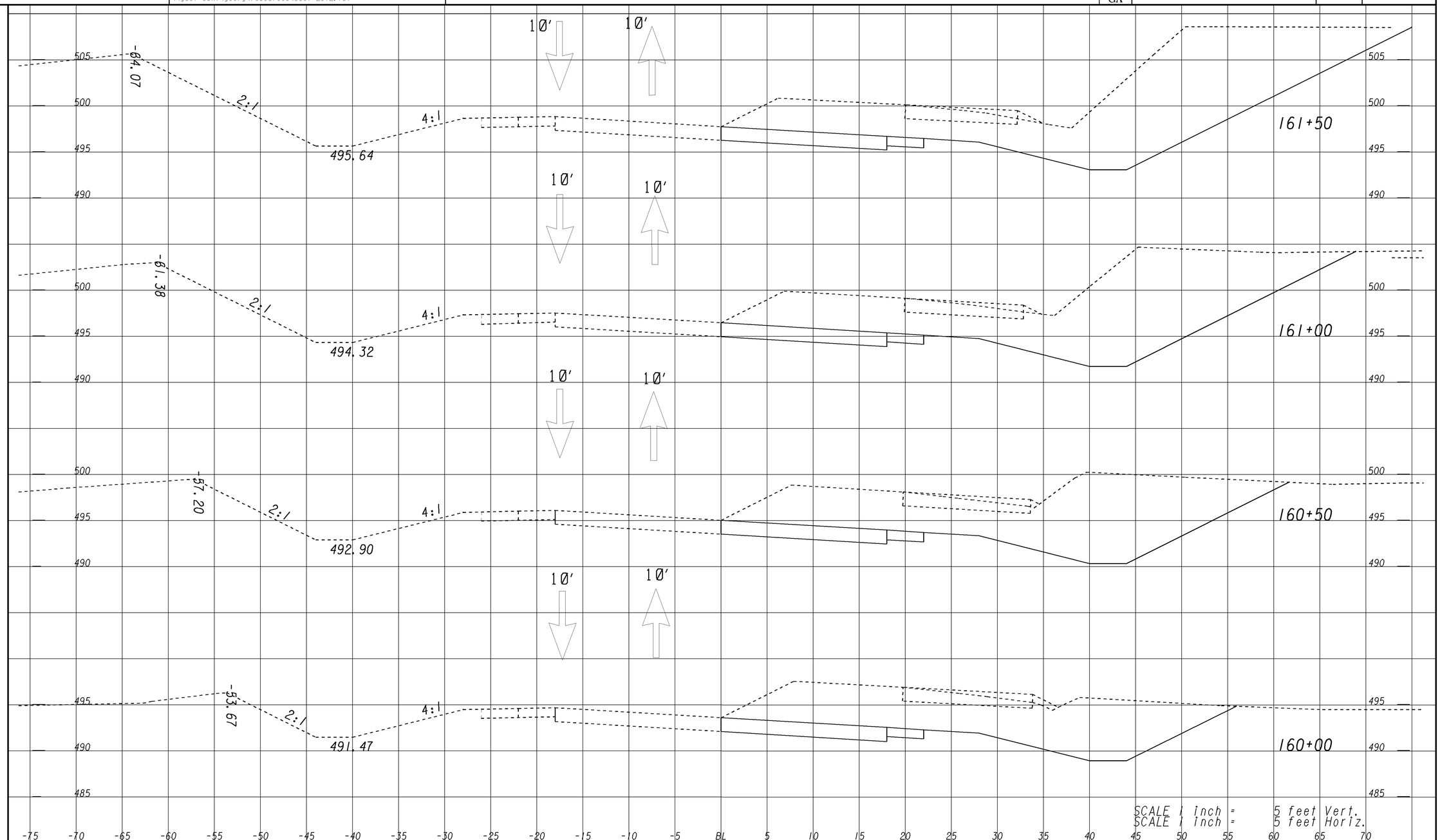
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING No. 19 -41

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

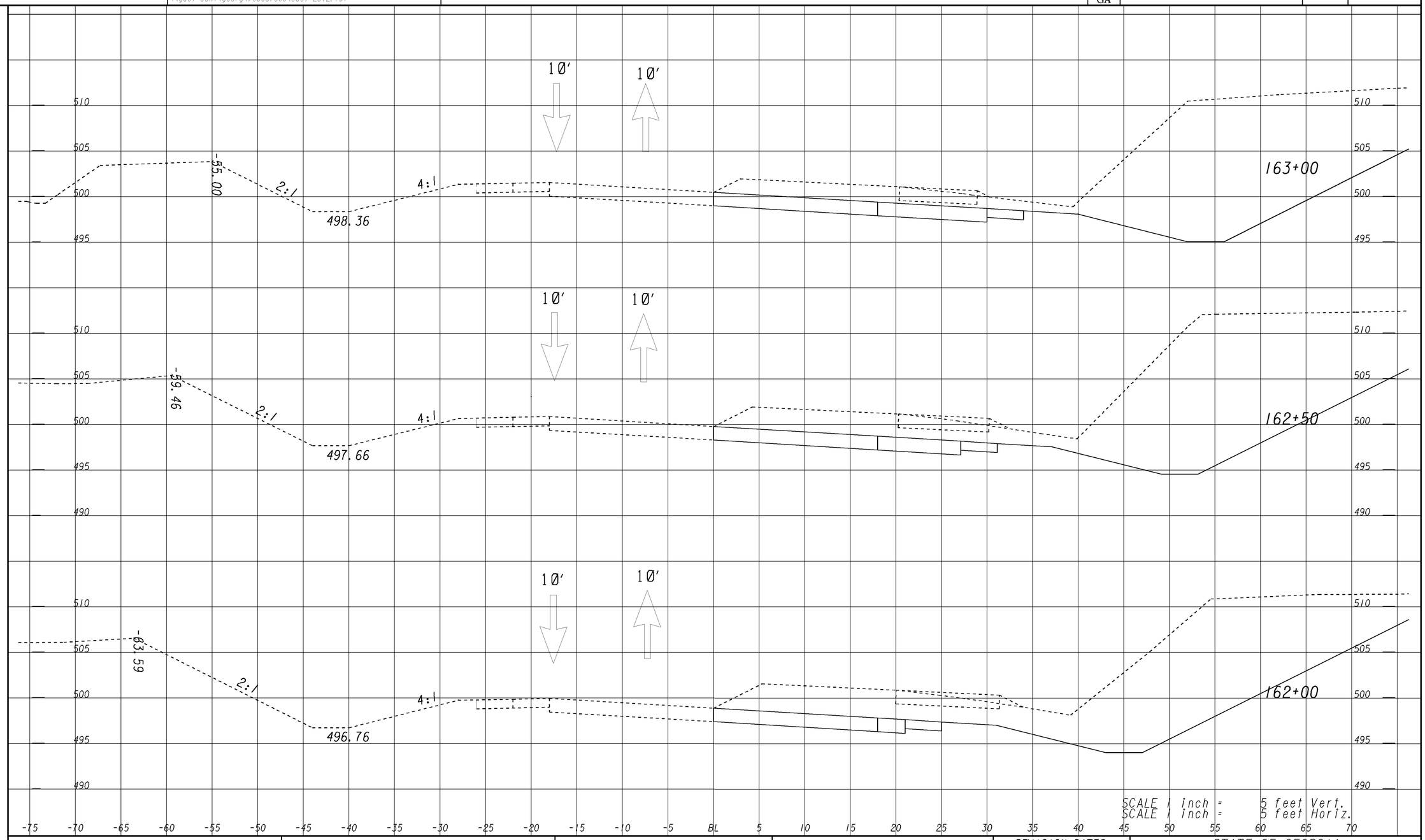
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING NO. 19 -42

SUXSEW



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

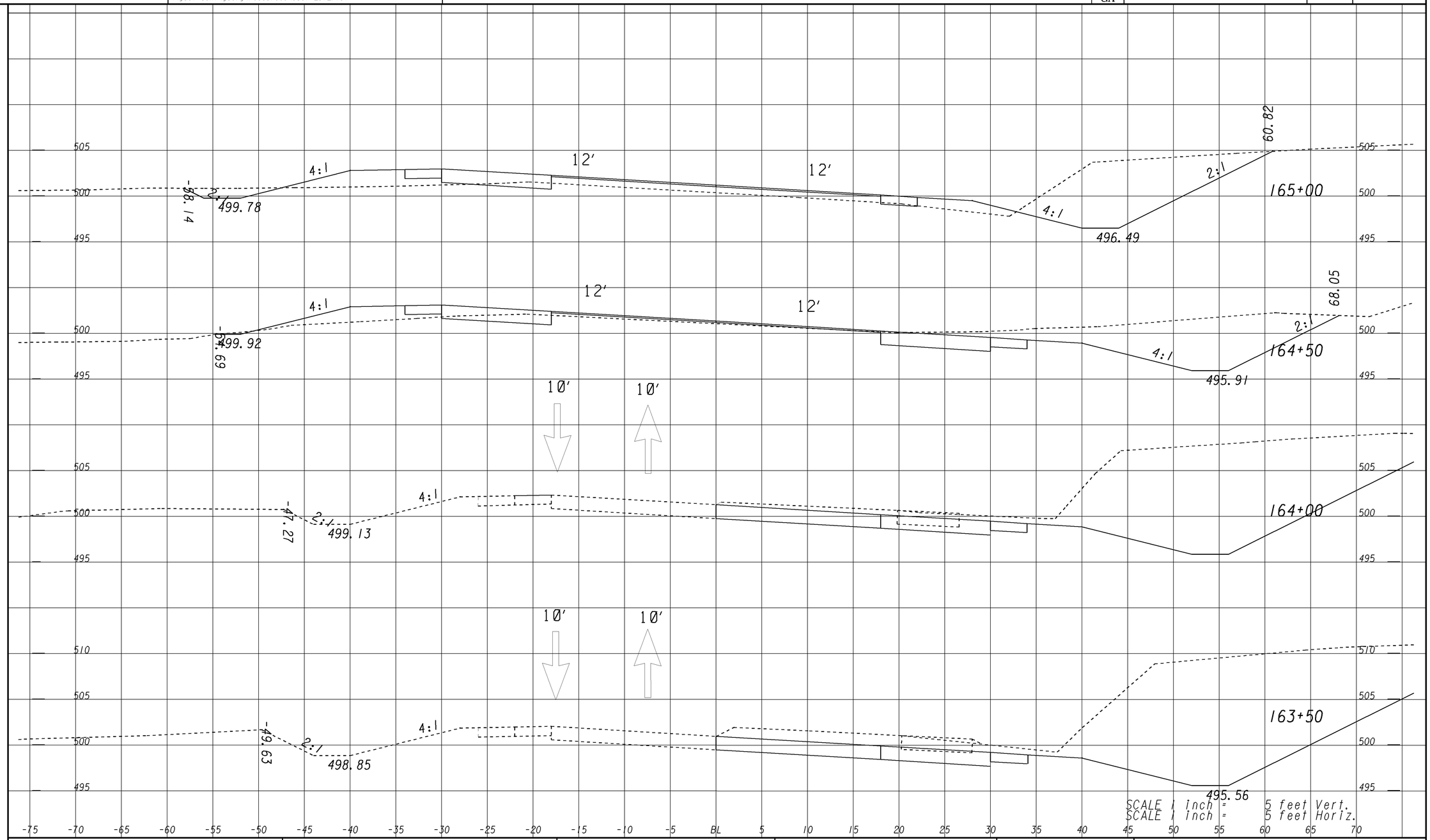
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING No. 19 -43

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

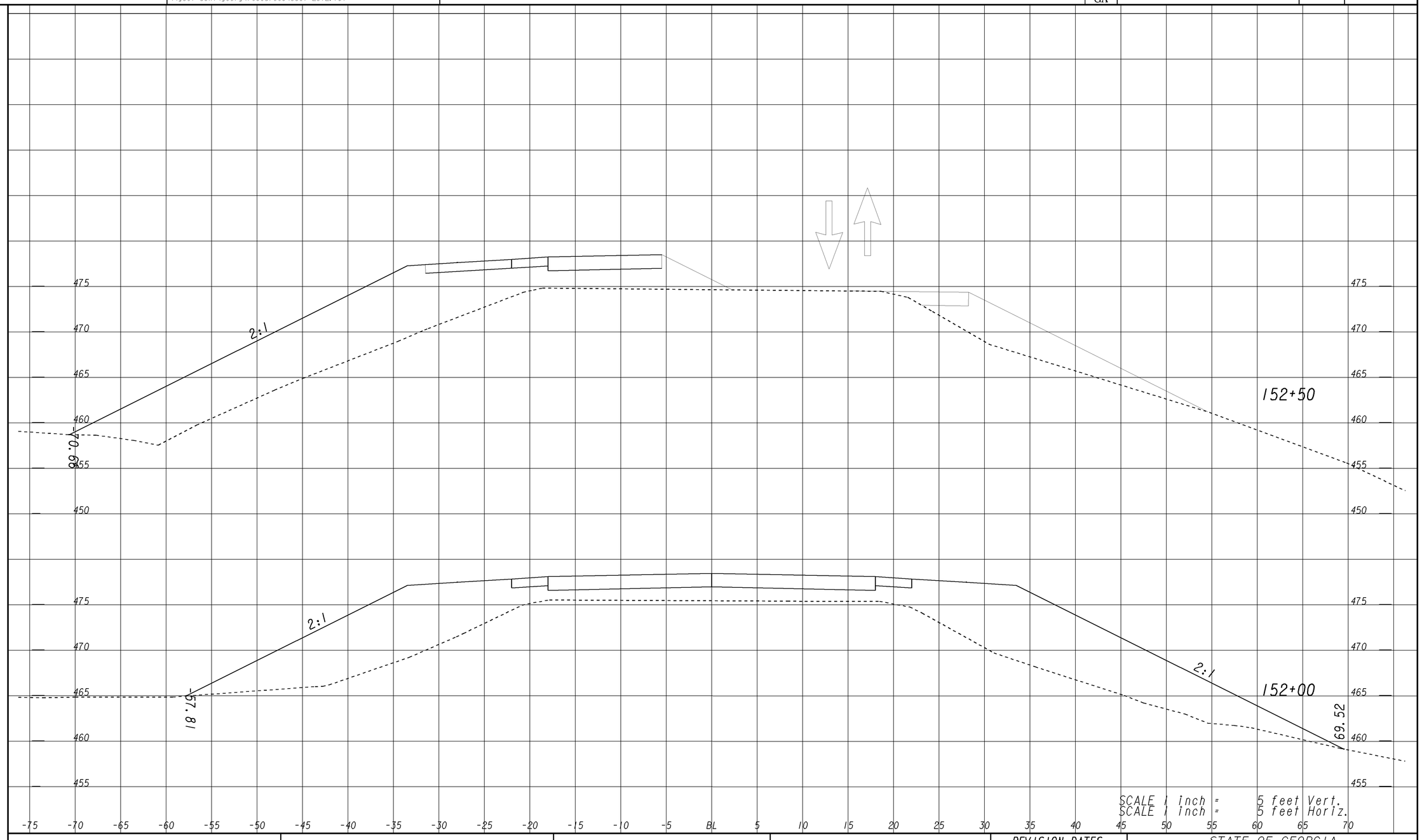
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

STAGING CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 3

DRAWING No. 19 -44

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

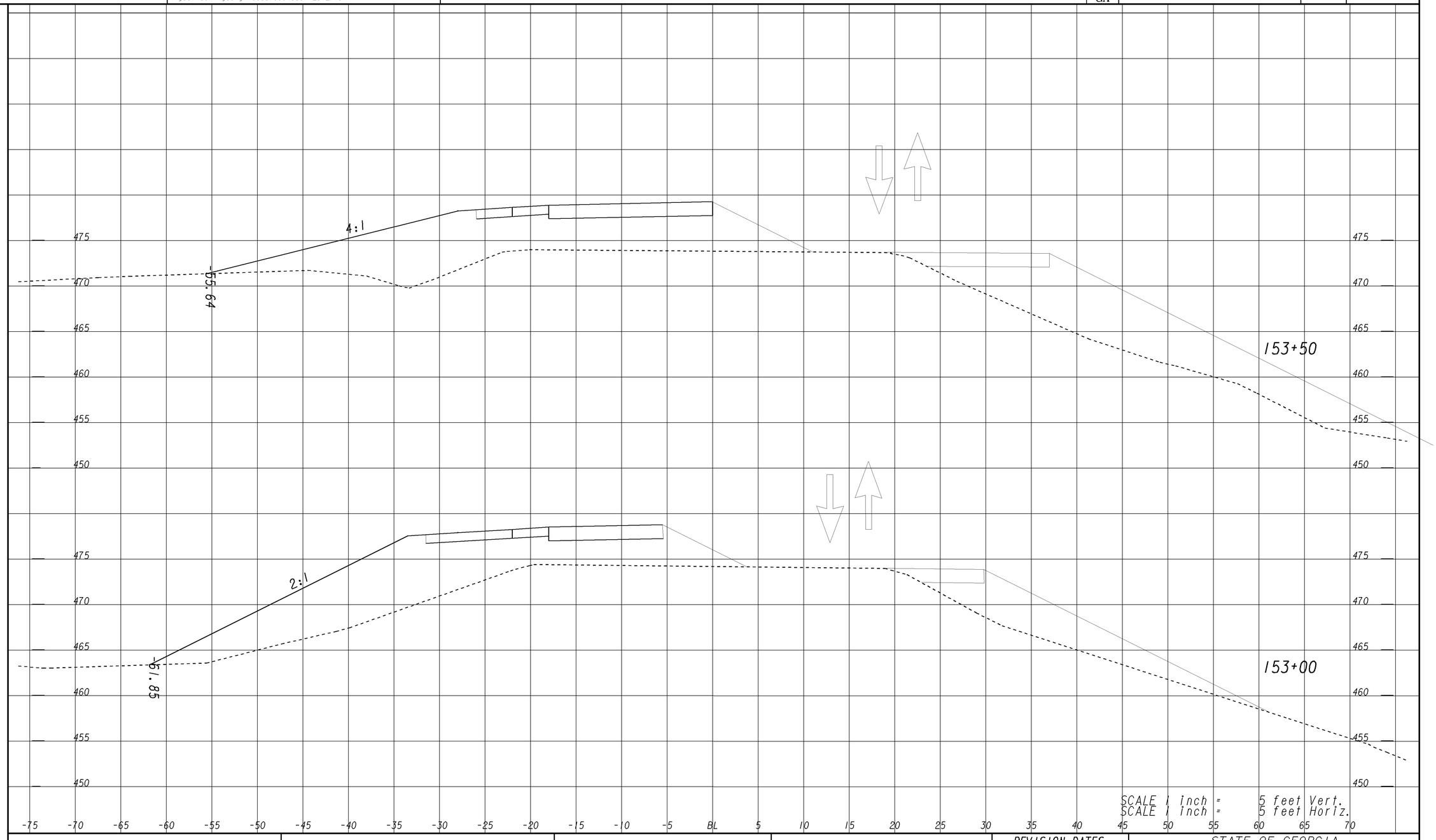
EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING No.
20-29

SUXSEW

Fri Feb 07 09:42:12 2014 sk1dd	Fri Feb 07 09:42:12 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-4.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

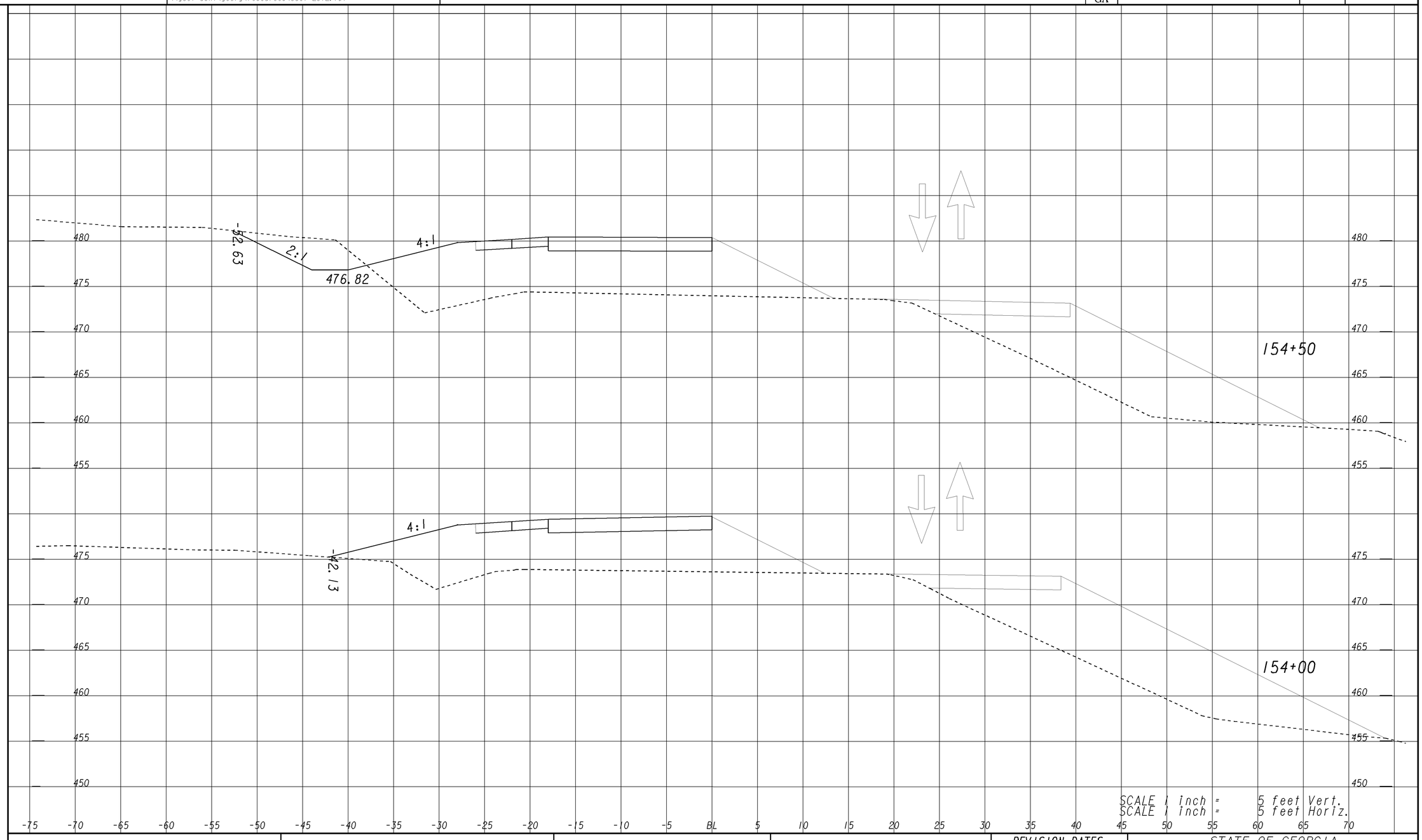
EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING NO. 20-30

SUXSEW

Fri Feb 07 09:42:10 2014 sk1dd	Fri Feb 07 09:42:10 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-4.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

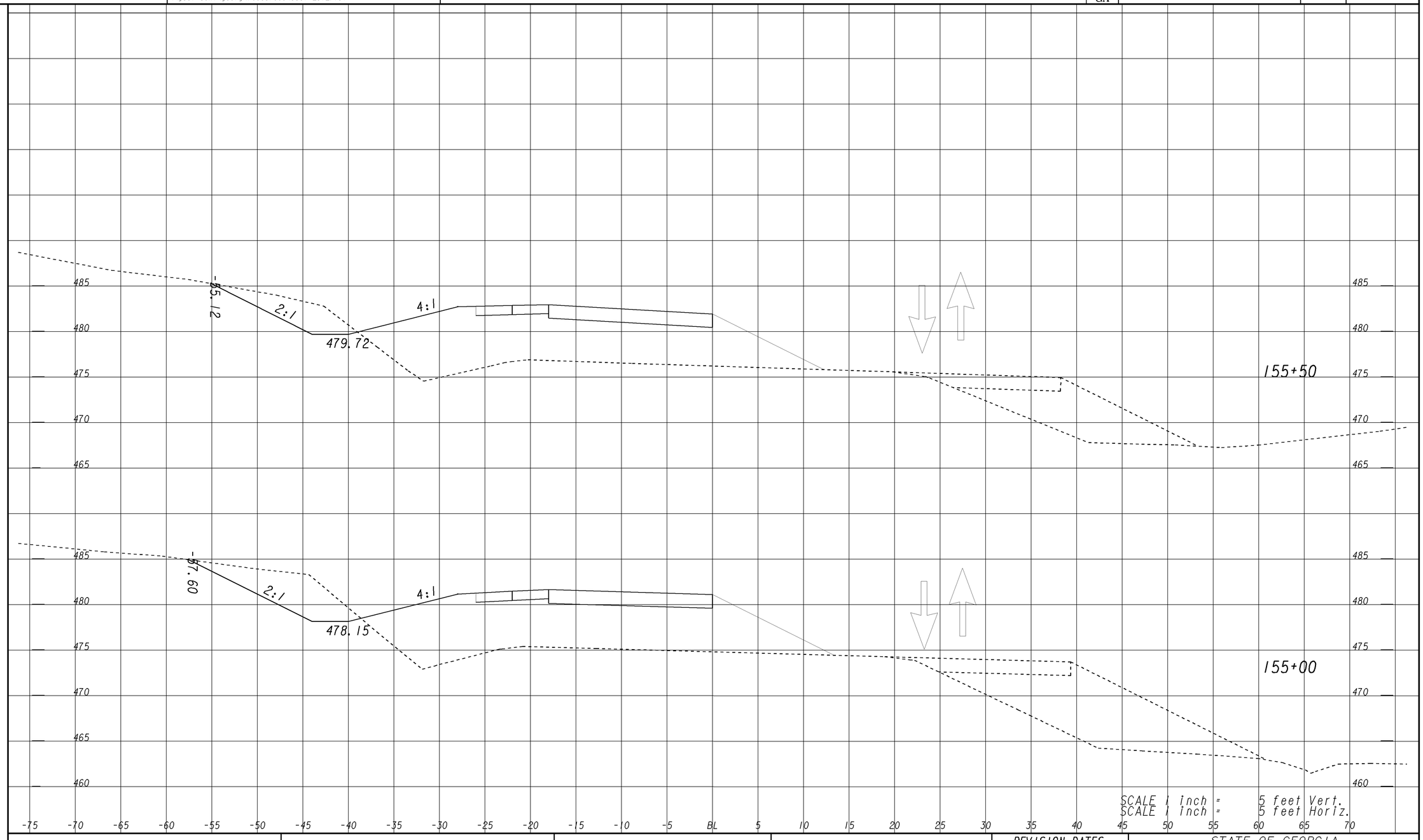
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING NO. 20-31

Fri Feb 07 09:42:05 2014 sk1dd	Fri Feb 07 09:42:05 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-4.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

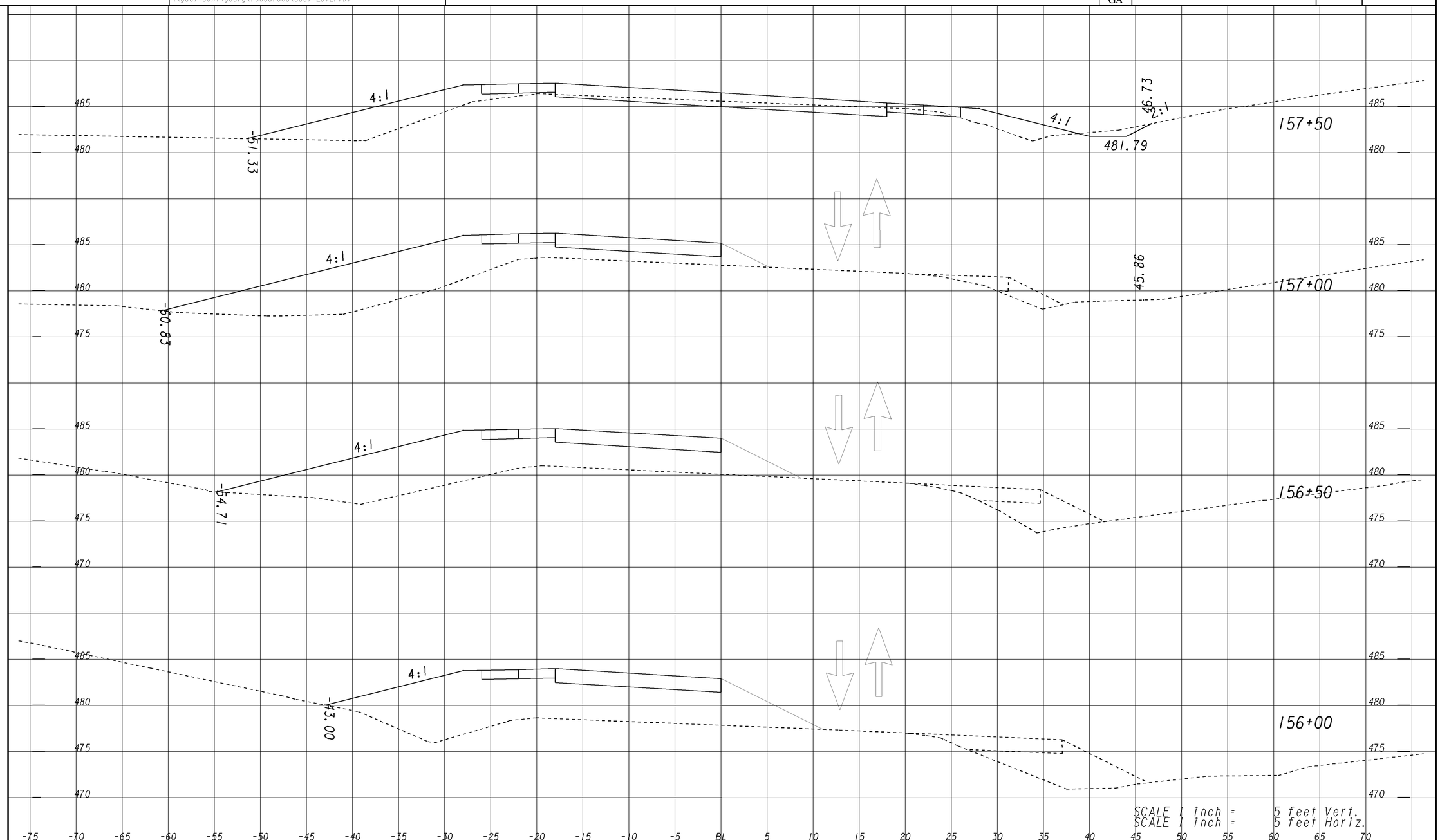
EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING No. 20-32

SUXSEW

Fri Feb 07 09:42:04 2014 skldd	Fri Feb 07 09:42:04 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-4.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

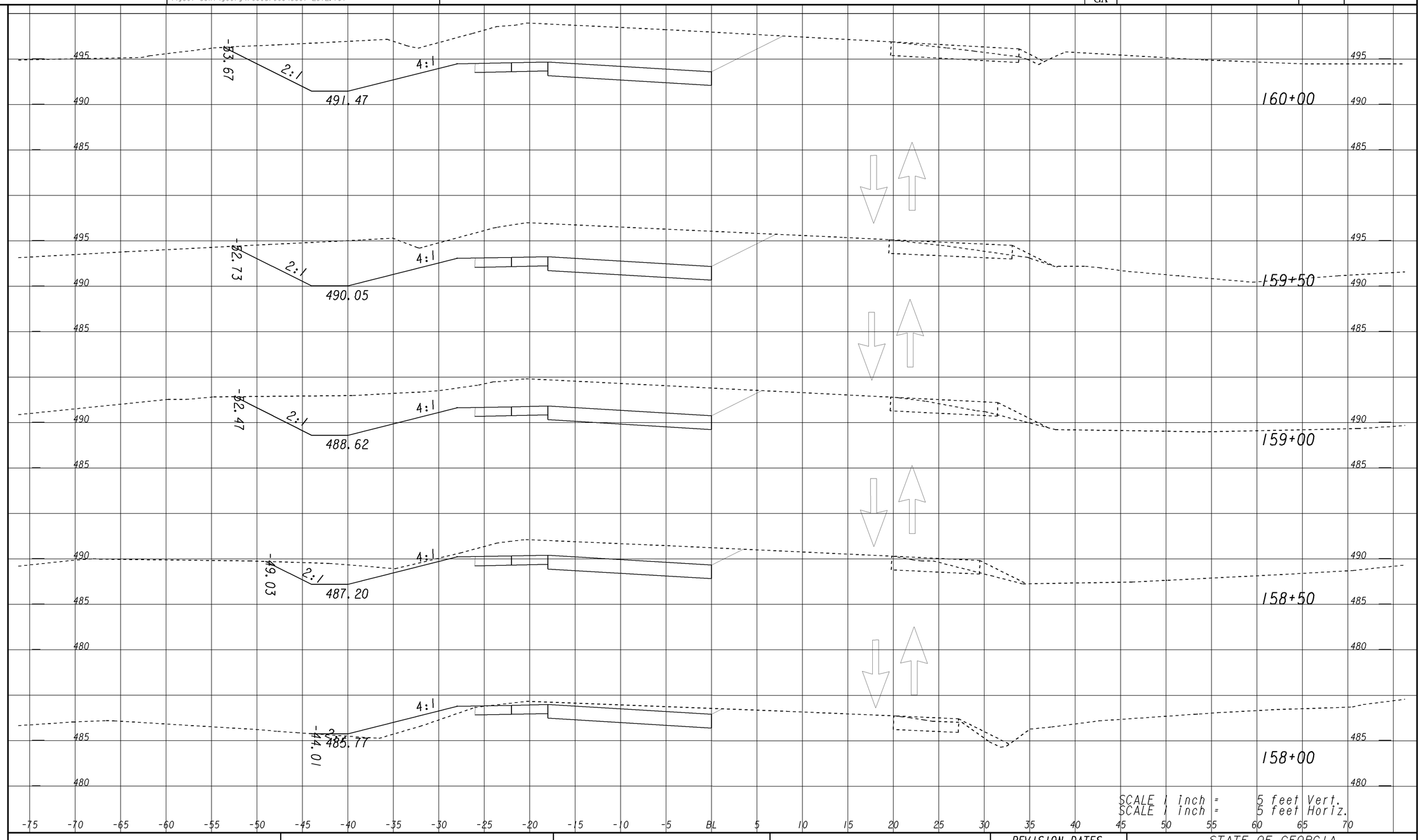
EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING No. 20-33

SUXSEW

Fri Feb 07 09:42:02 2014 sk1dd	Fri Feb 07 09:42:02 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-4.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

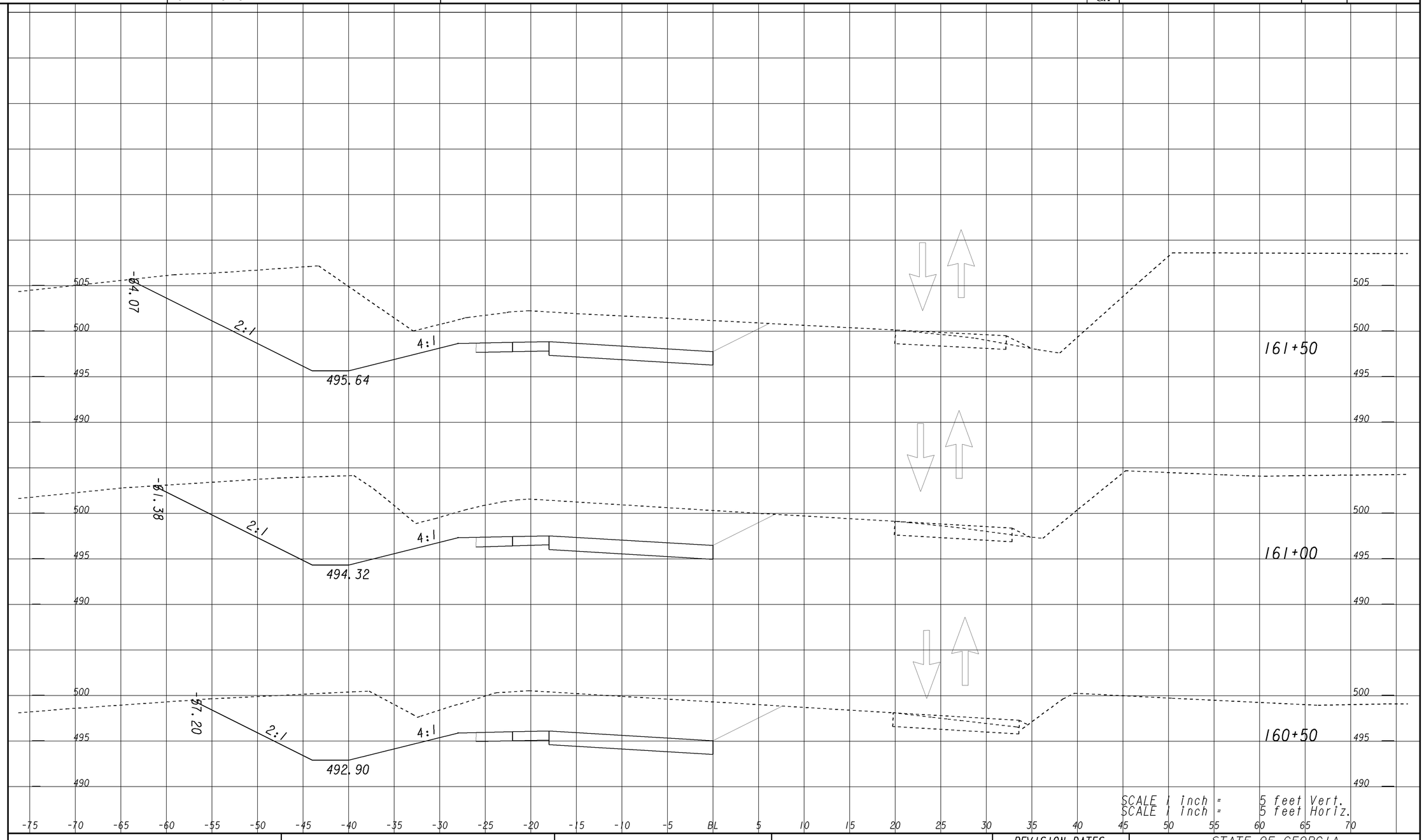
EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING No. 20-34

SUXSEW

Fri Feb 07 09:41:56 2014 skldd	Fri Feb 07 09:41:56 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-4.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

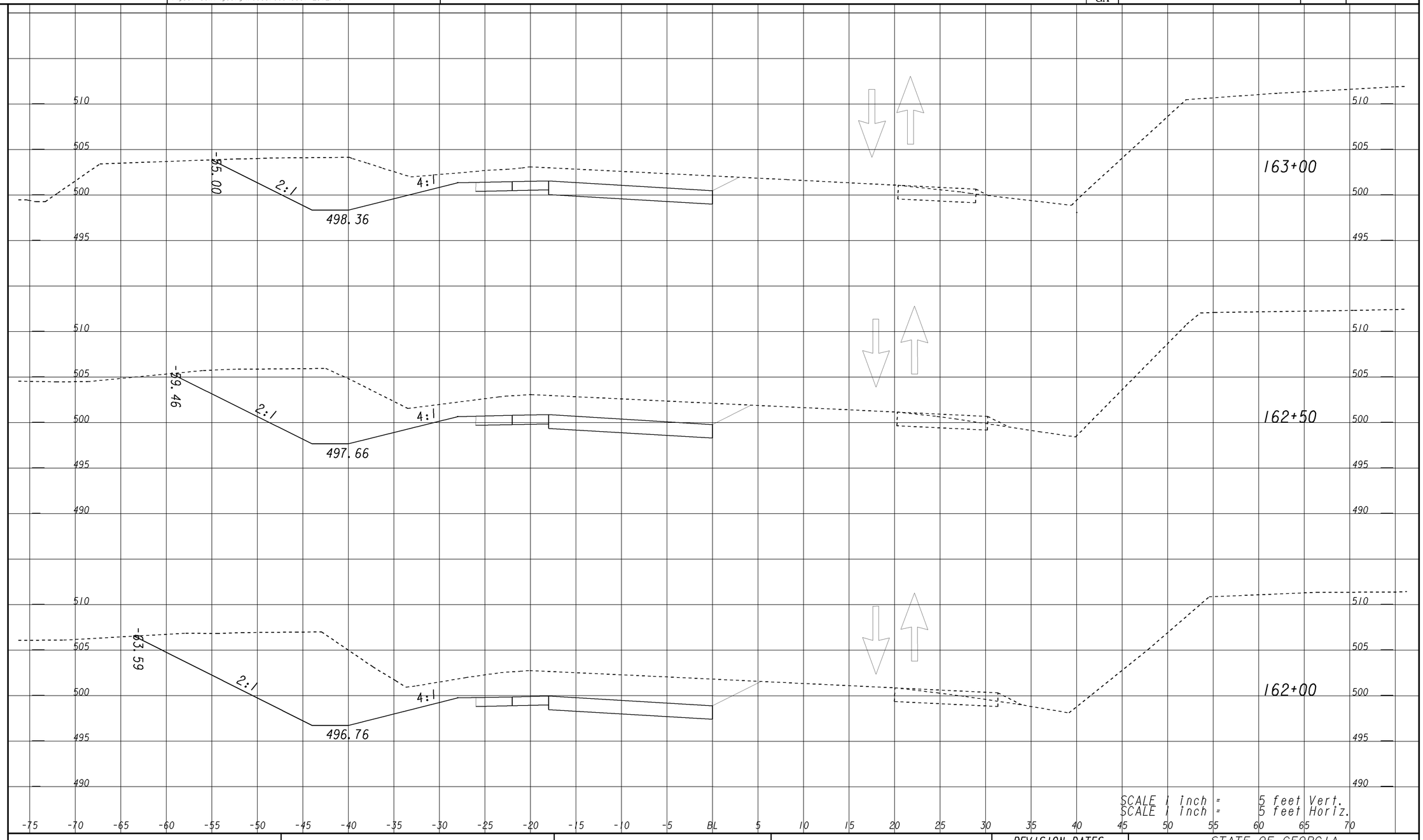
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING NO. 20-35

Fri Feb 07 09:41:54 2014 sk1dd	Fri Feb 07 09:41:54 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecStage-4.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

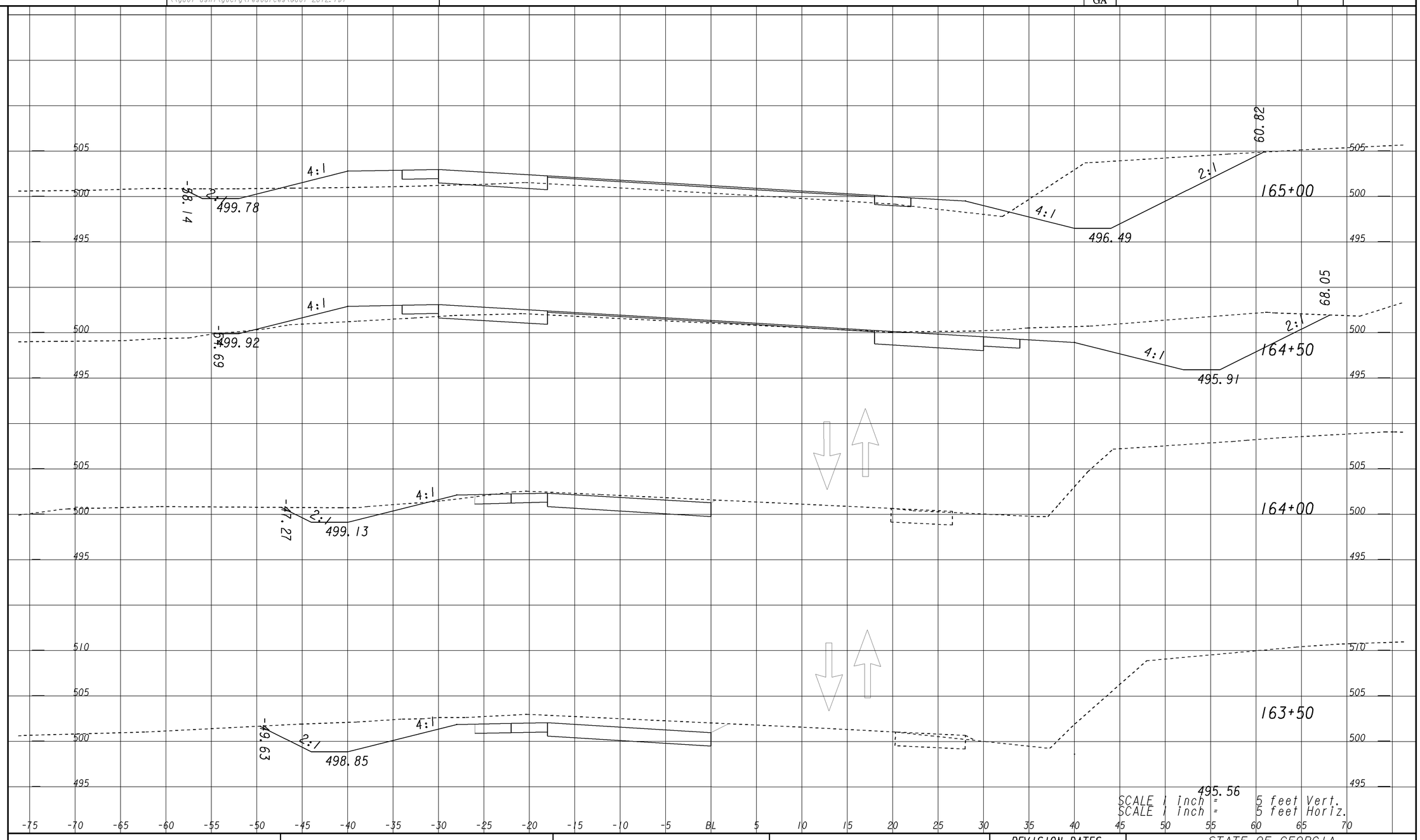
EARTHWORK CROSS SECTIONS

SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING NO. 20-36

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1 2 4

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

EARTHWORK CROSS SECTIONS

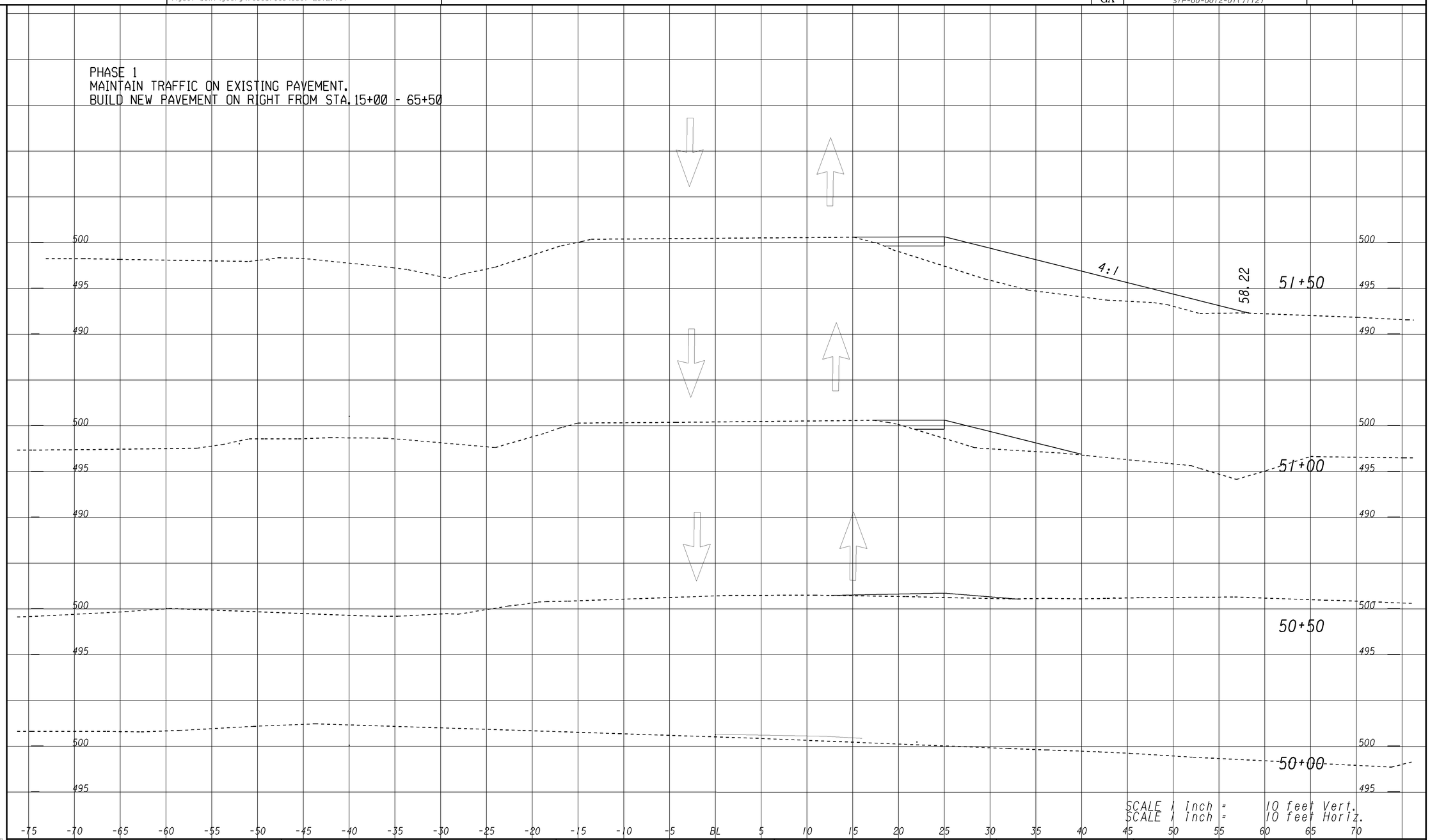
SR20 STAGING CROSS SECTIONS
STAGE 4

DRAWING No.
20-37

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		

PHASE 1
MAINTAIN TRAFFIC ON EXISTING PAVEMENT.
BUILD NEW PAVEMENT ON RIGHT FROM STA. 15+00 - 65+50



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

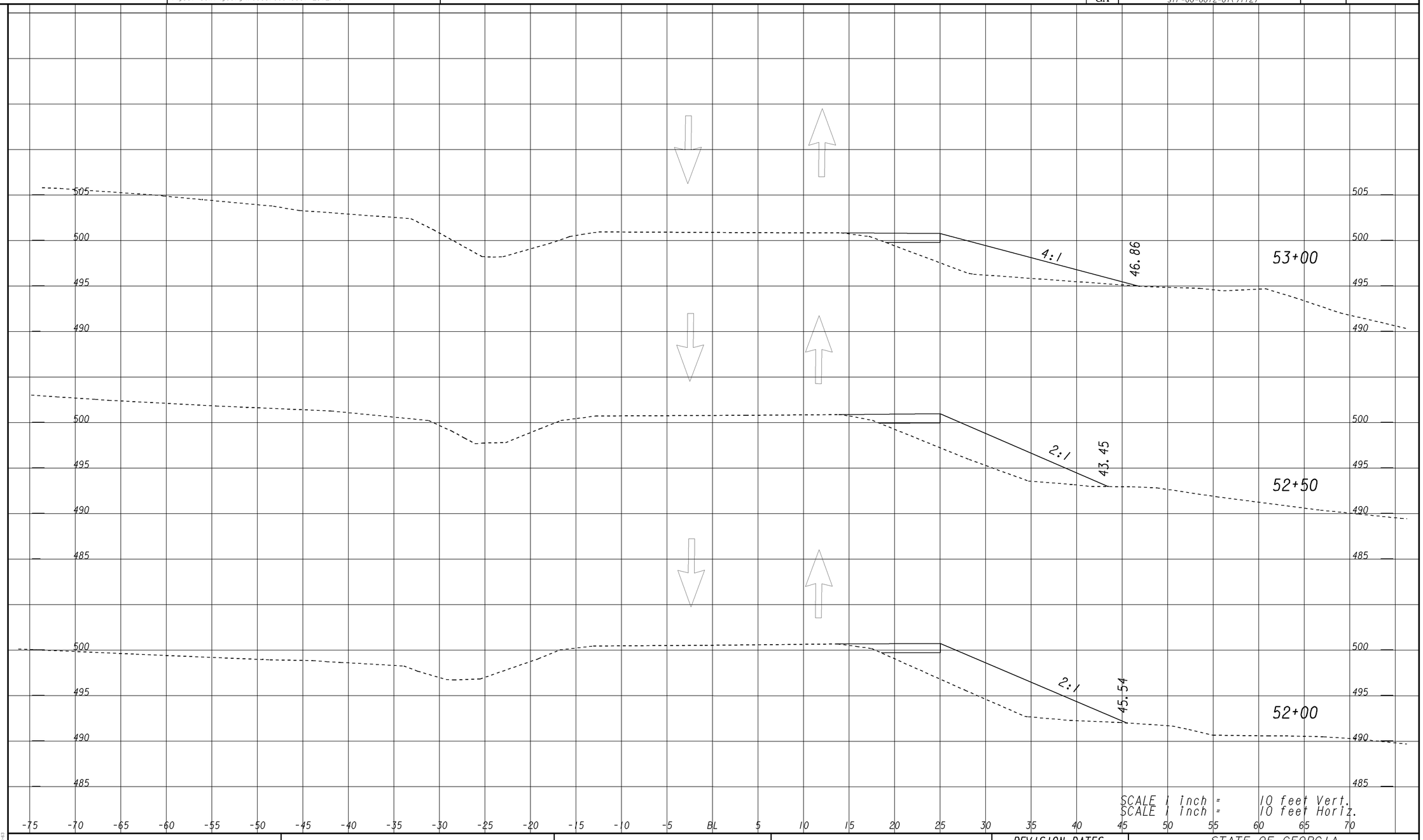
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING NO. 19 -45

SUXSEW

Fri Feb 07 09:44:22 2014 skldd	Fri Feb 07 09:44:22 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

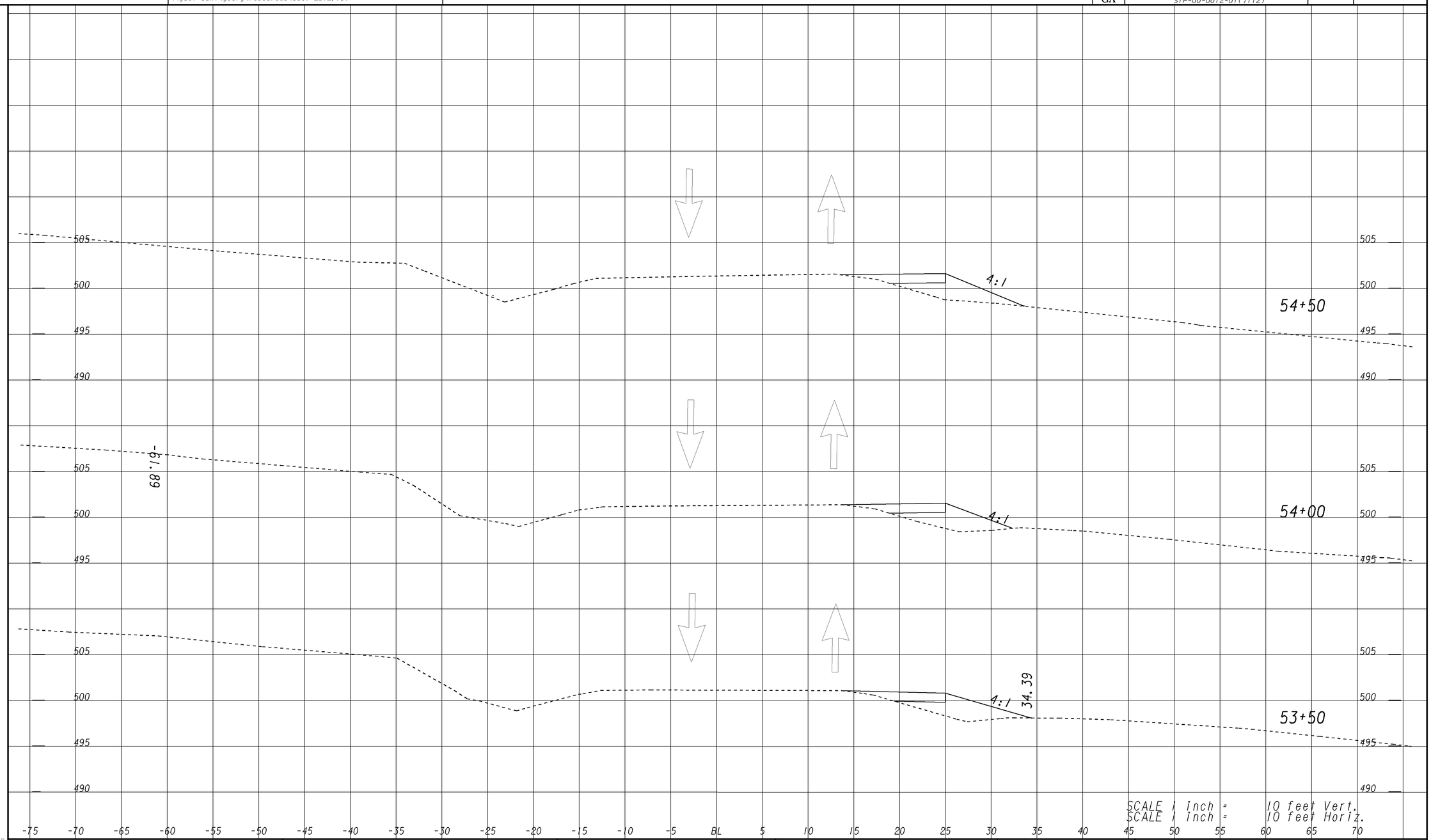
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -46

Fri Feb 07 09:44:20 2014 Fri Feb 07 09:44:20 2014 sk1dd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE GA	PROJECT NUMBER STP-00-0012-01()112)	SHEET NO.	TOTAL SHEETS



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

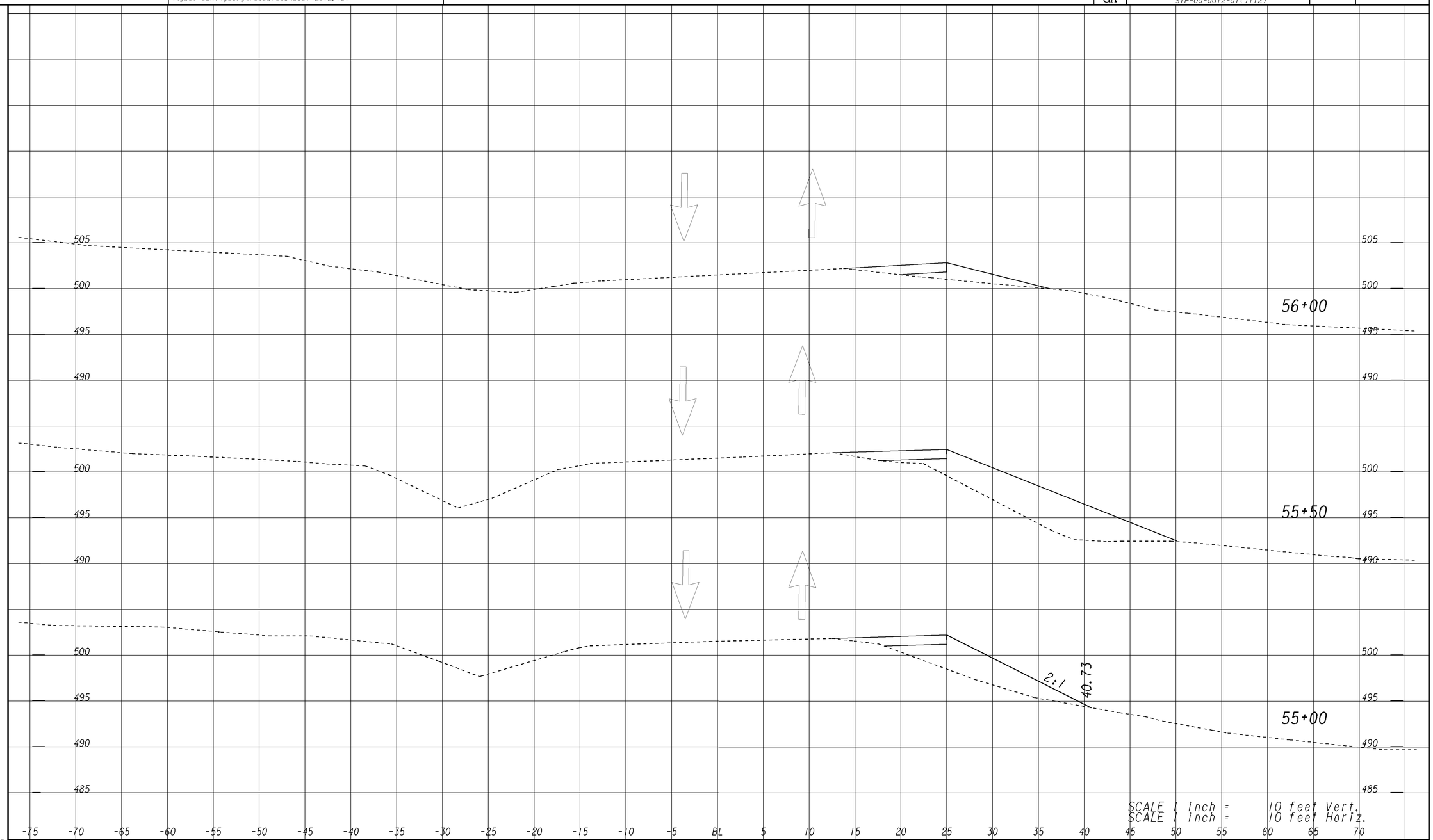
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -47

Fri Feb 07 09:44:16 2014 skldd	Fri Feb 07 09:44:16 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

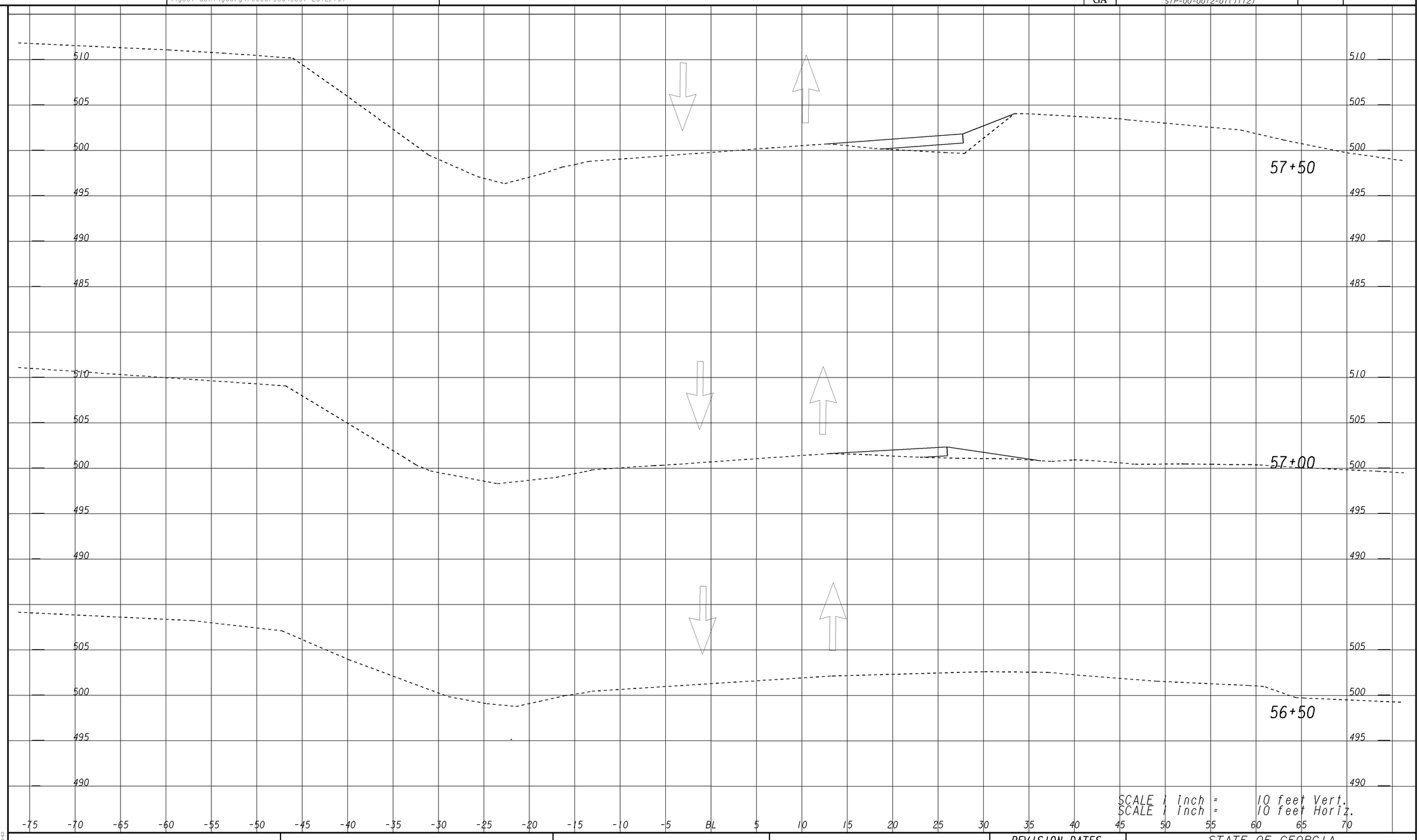
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -48

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

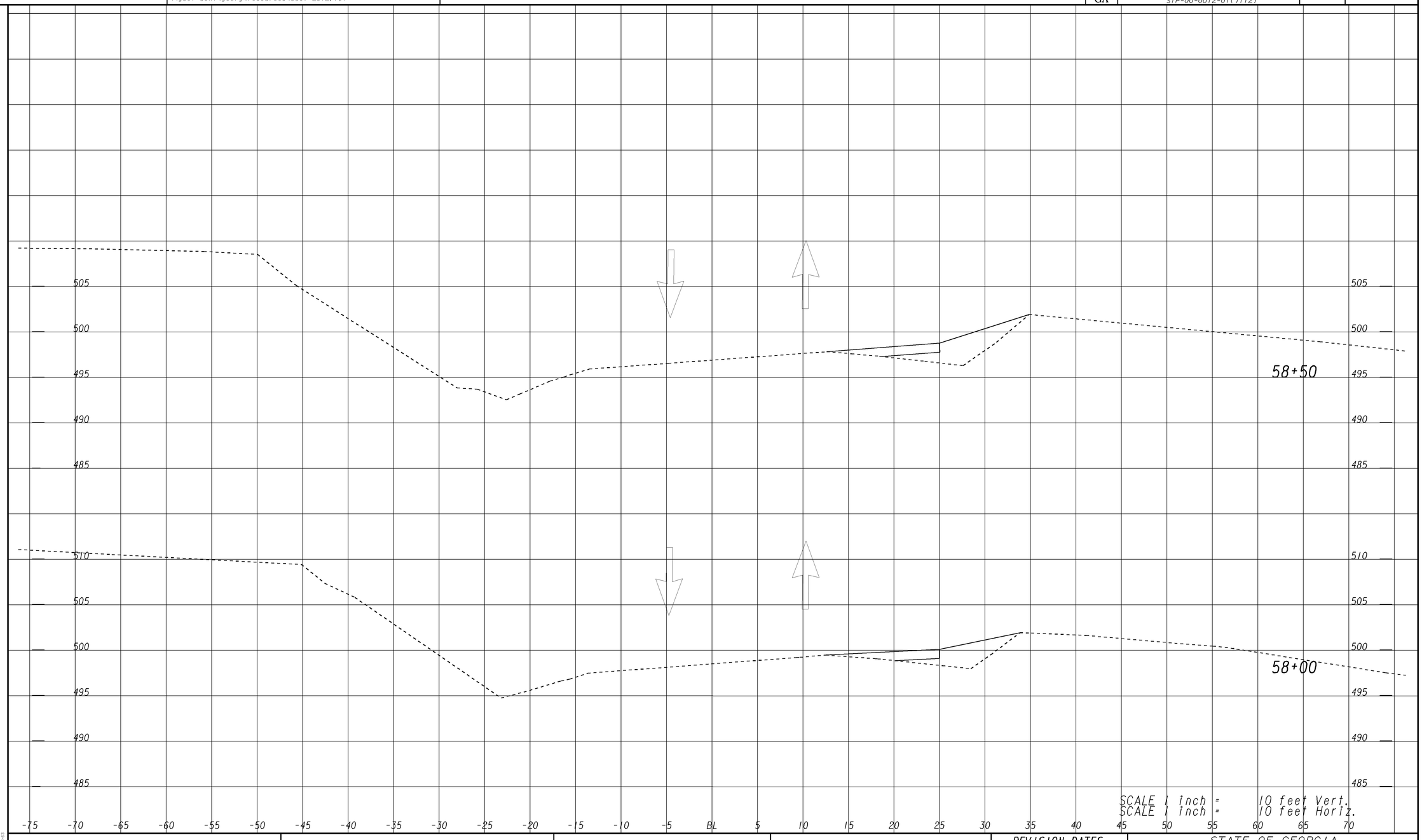
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -49

SUXSEW

Fri Feb 07 09:44:12 2014 sk1dd	Fri Feb 07 09:44:12 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

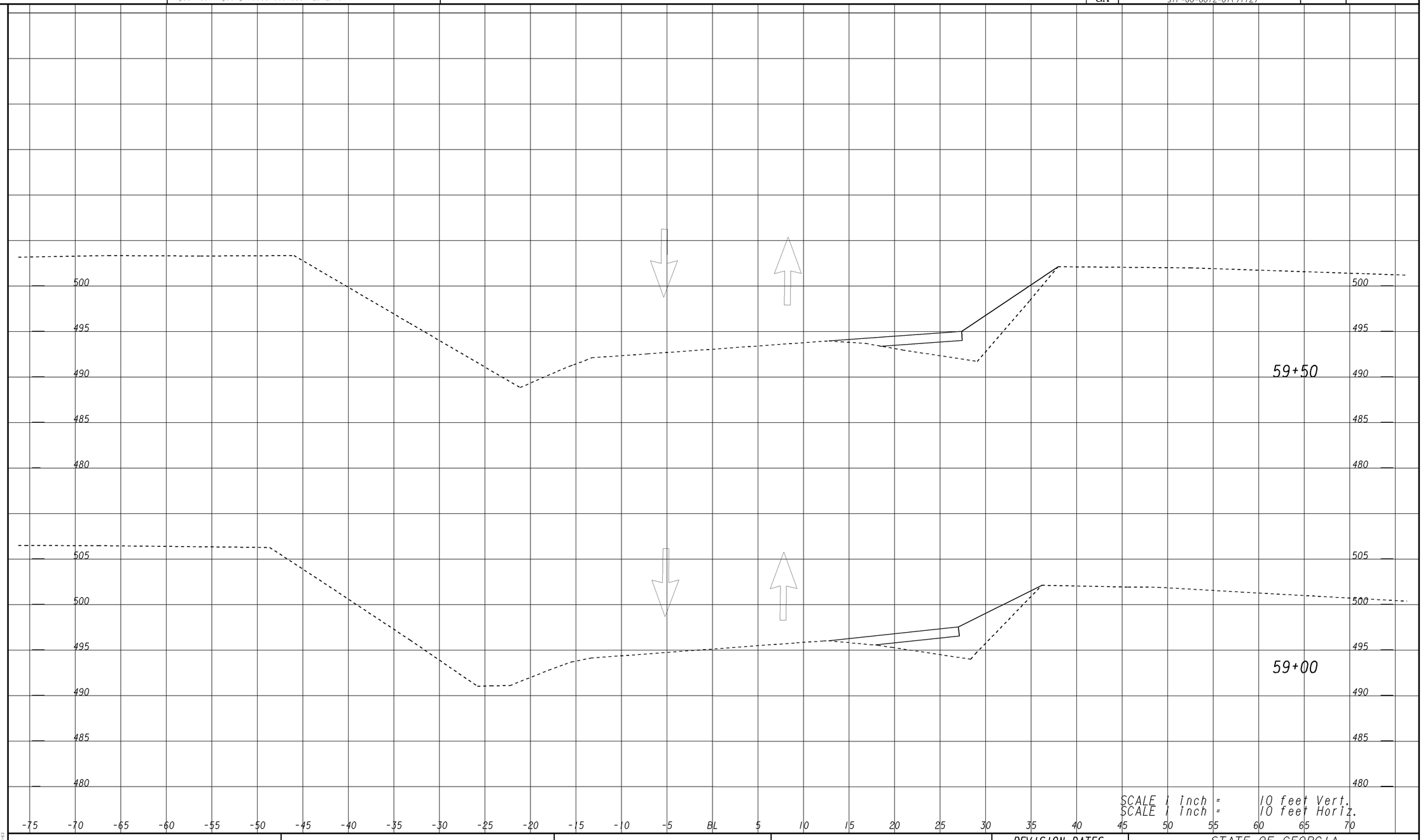
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -50

Fri Feb 07 09:44:10 2014 sk1dd	Fri Feb 07 09:44:10 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

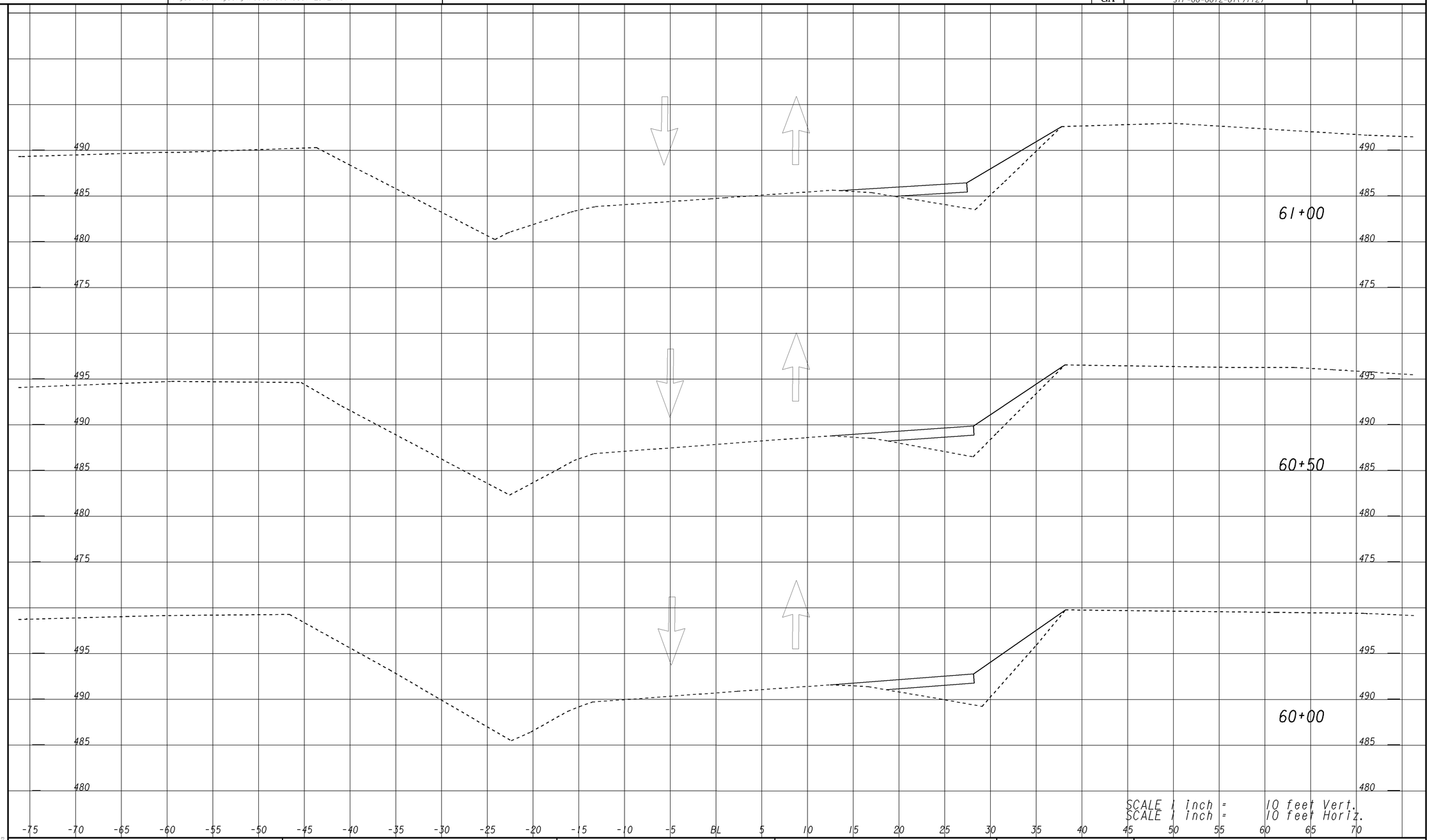
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -51

Fri Feb 07 09:44:05 2014 skldd	Fri Feb 07 09:44:05 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

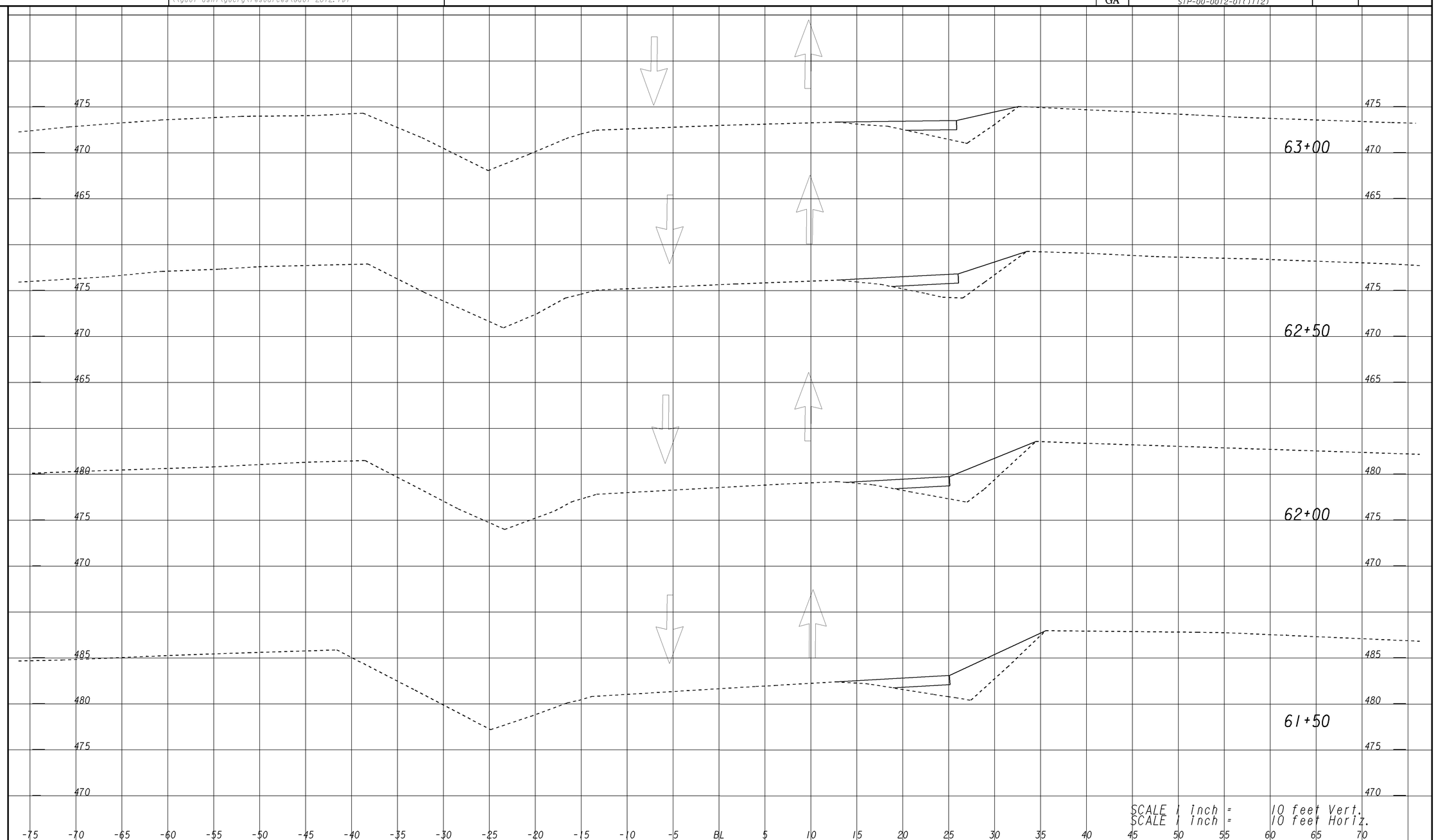
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING NO. 19 -52

Fri Feb 07 09:44:03 2014 skldd	Fri Feb 07 09:44:03 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

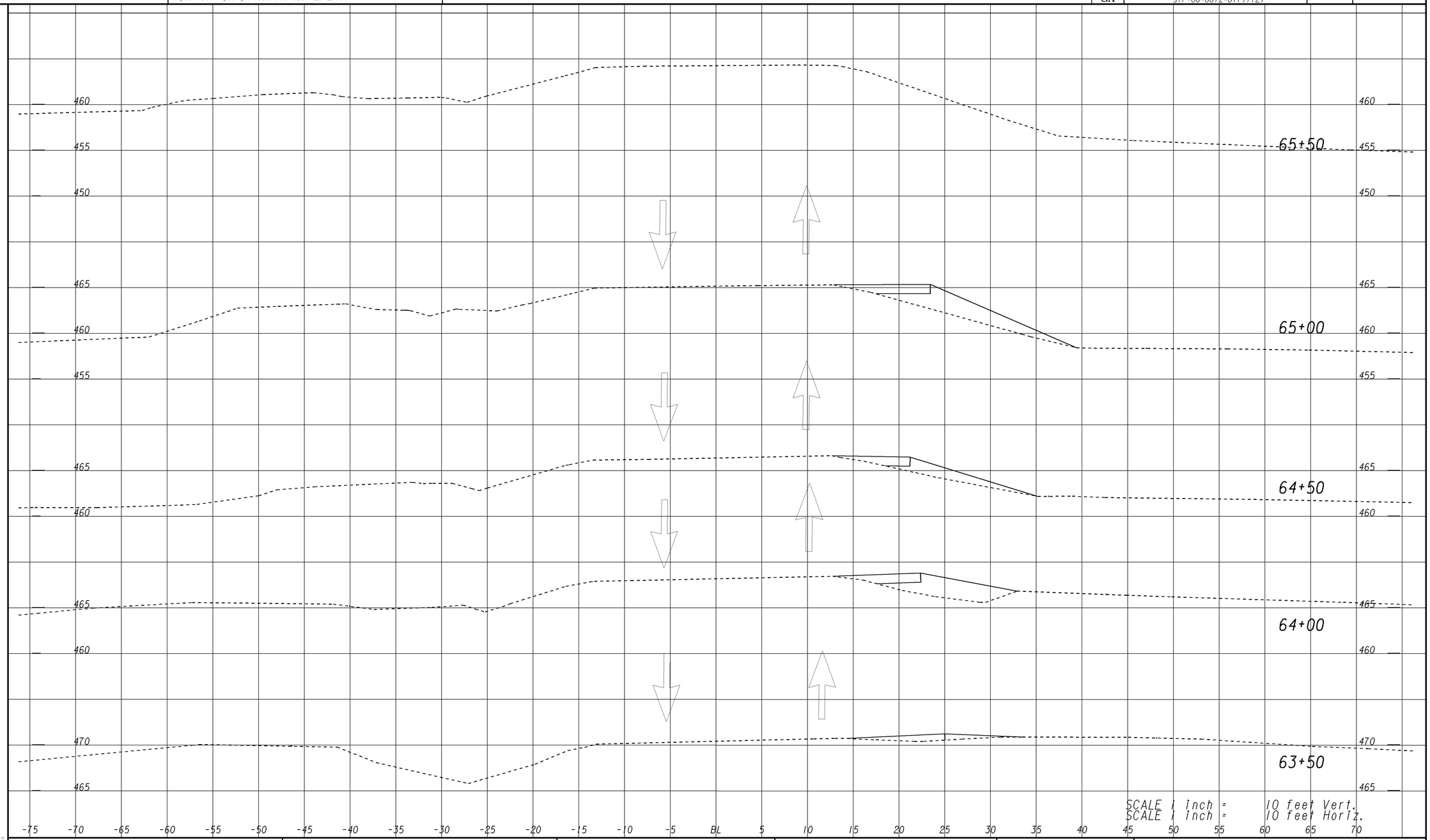
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -53

Fri Feb 07 09:44:01 2014 skldd	Fri Feb 07 09:44:01 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage1.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

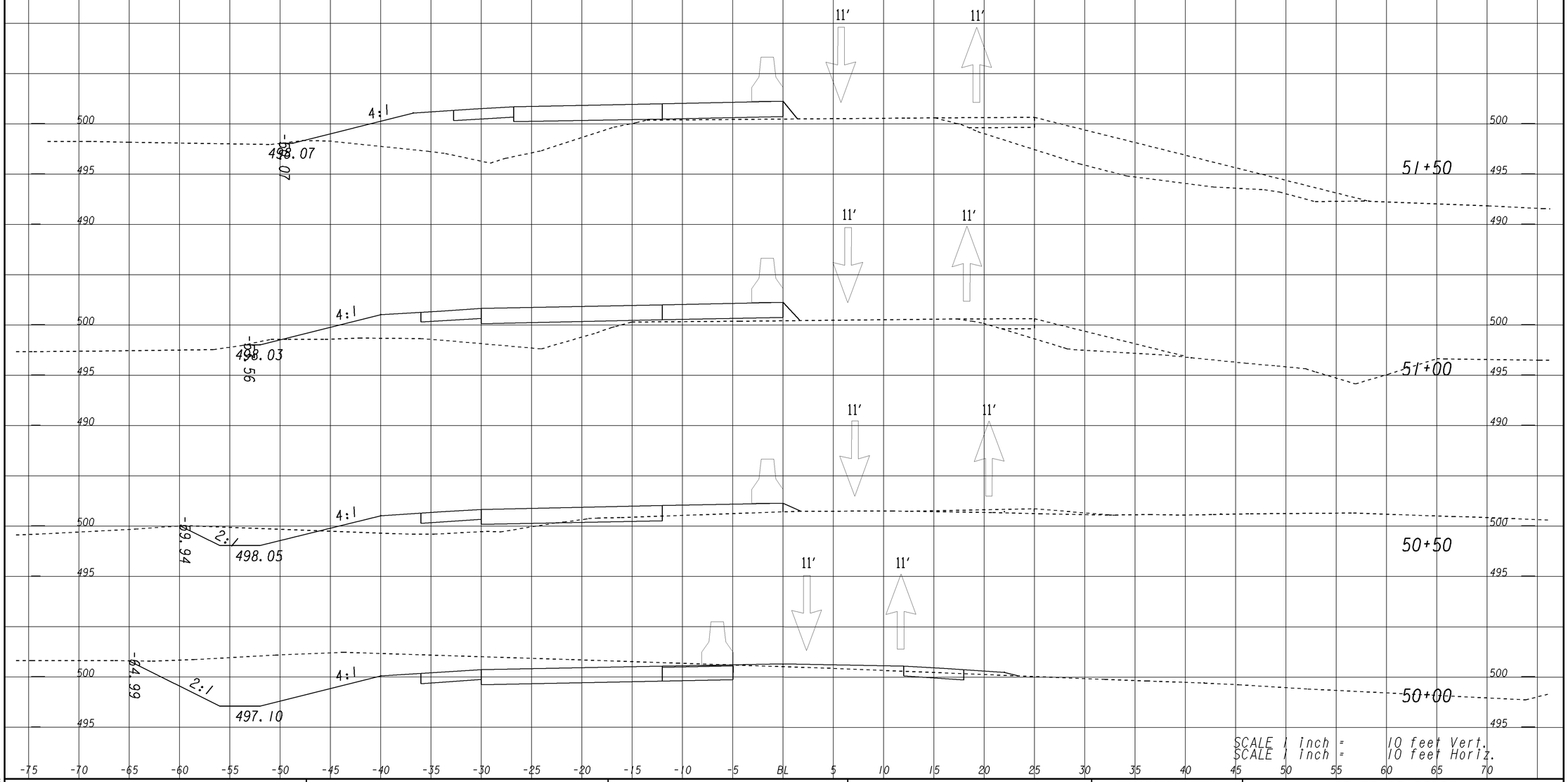
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 1

DRAWING No. 19 -54

SHORING TO BE USED AS DIRECTED BY THE ENGINEER

PHASE 2
SHIFT TRAFFIC TO RIGHT OF C/L ON NEW PAVEMENT
BUILD LEFT SIDE FROM STA. 15+00 - 65+50



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

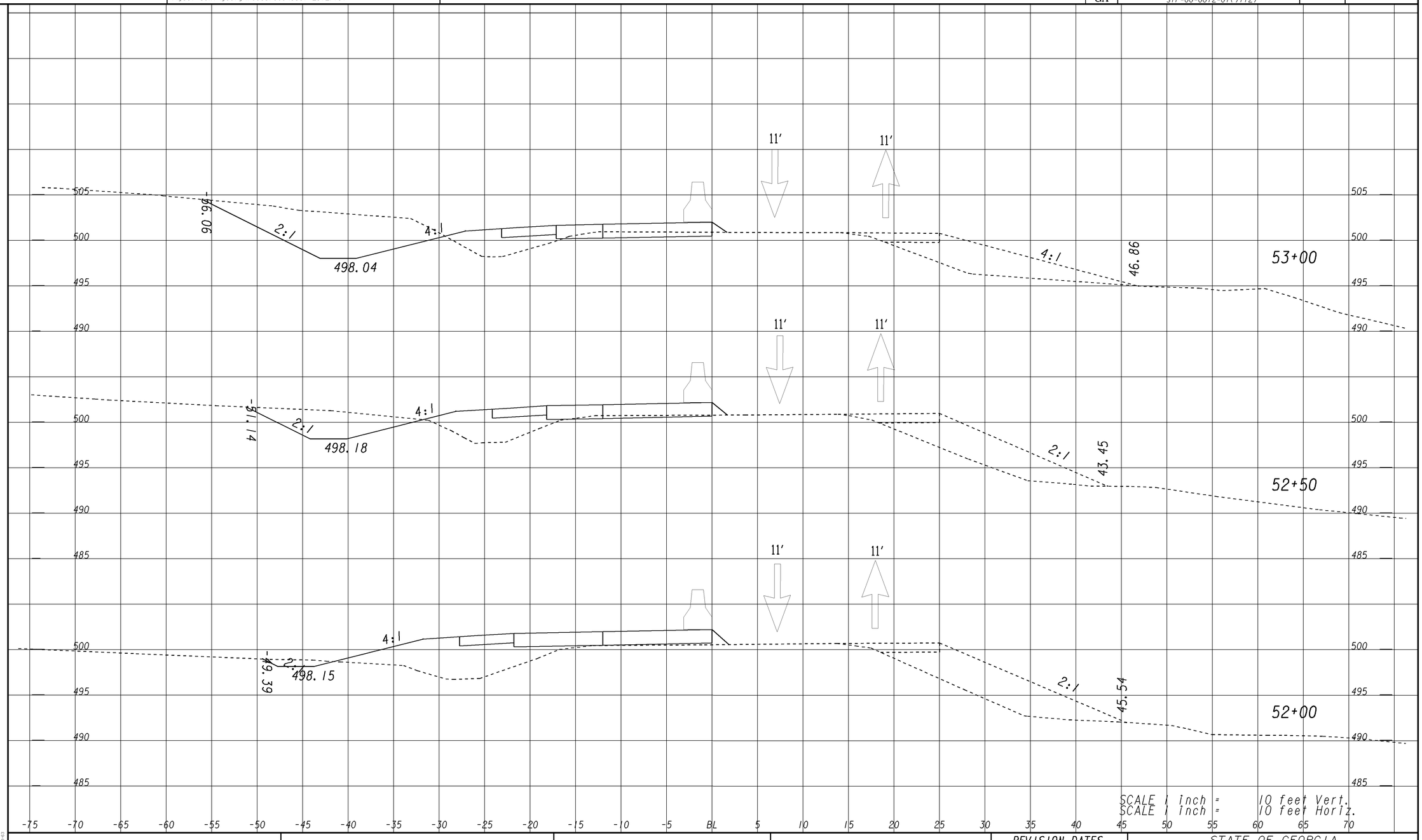
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

DRAWING NO. 19 -55

SUXSEW

Fri Feb 07 09:43:57 2014 skldd	Fri Feb 07 09:43:57 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

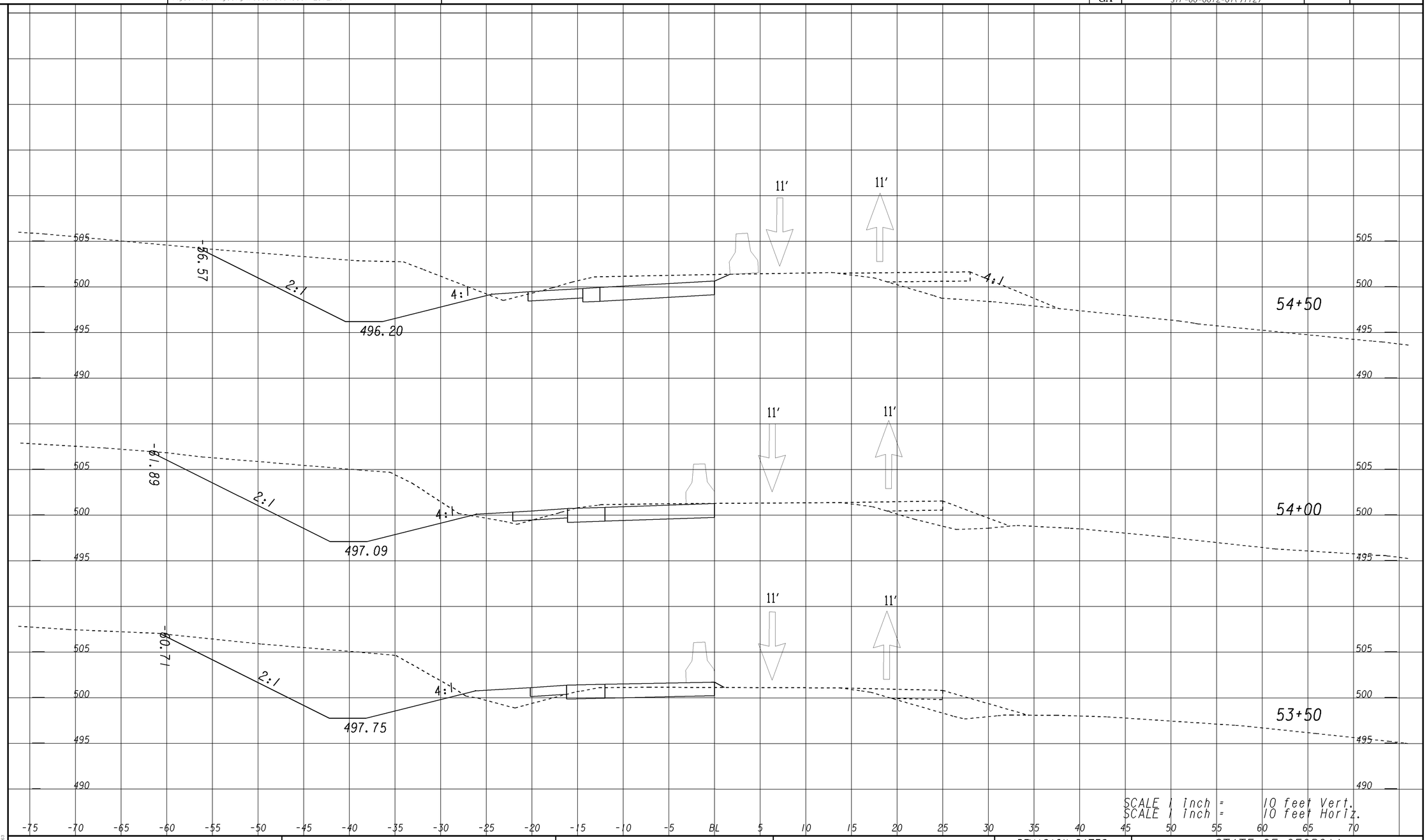
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

DRAWING No. 19 -56

Fri Feb 07 09:43:51 2014 Fri Feb 07 09:43:51 2014 skldd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUX:SEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

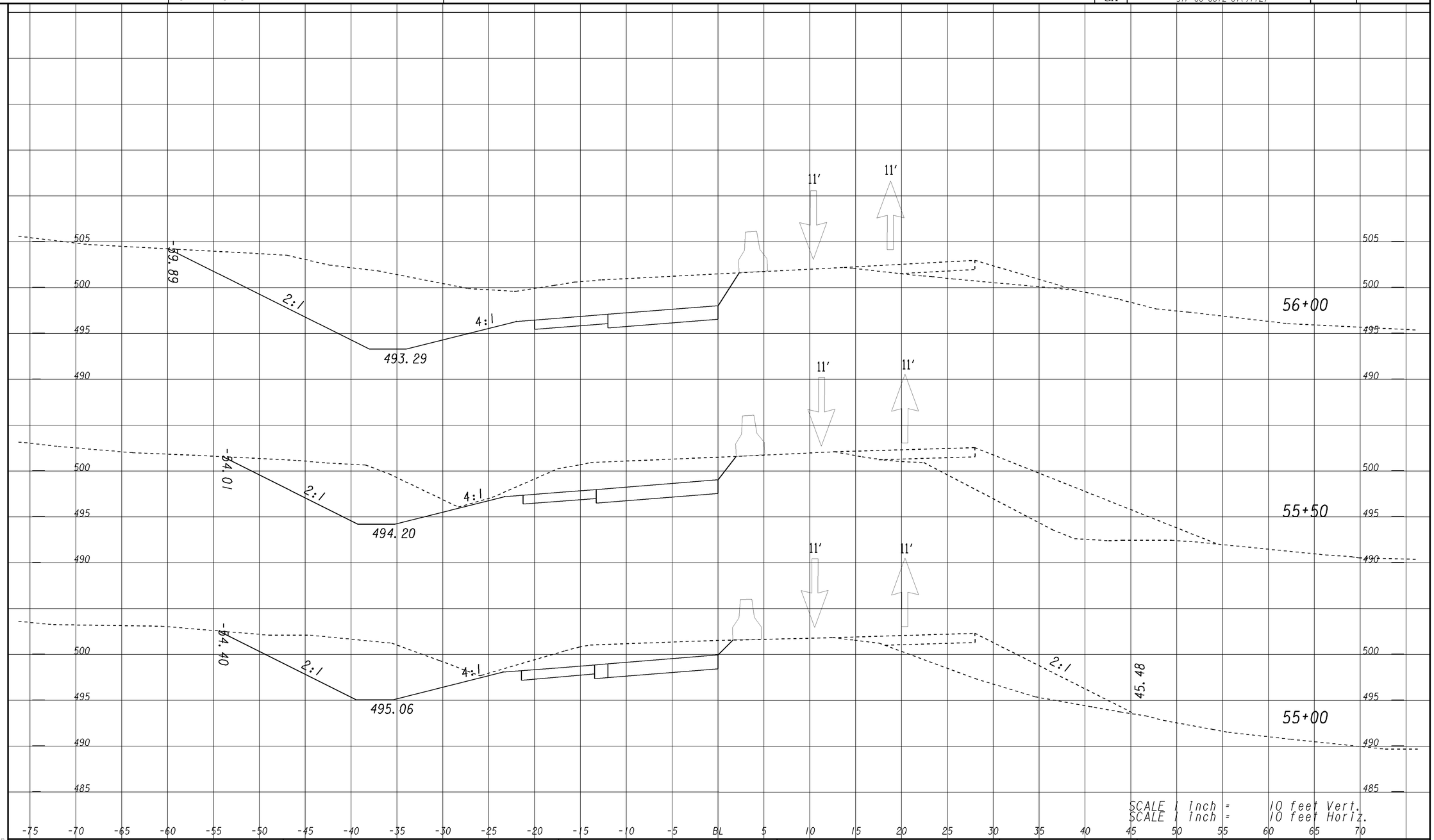
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION STAGE 2

DRAWING No. 19 -57

Fri Feb 07 09:43:49 2014 skldd	Fri Feb 07 09:43:49 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO. / TOTAL SHEETS
			GA	STP-00-0012-01()112)	



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

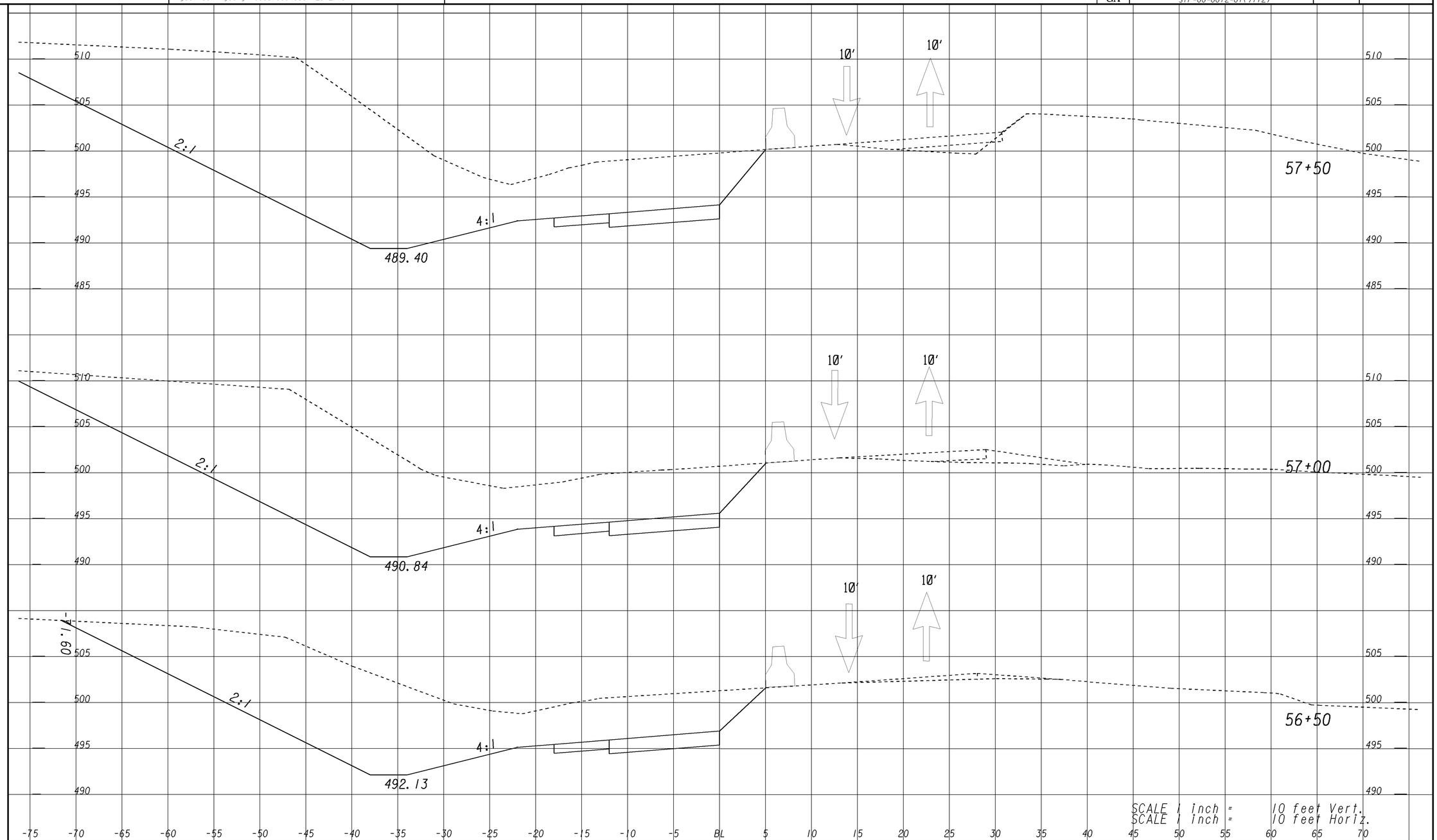
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION STAGE 2

DRAWING NO. 19 -58

Fri Feb 07 09:43:48 2014 skldd	Fri Feb 07 09:43:48 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

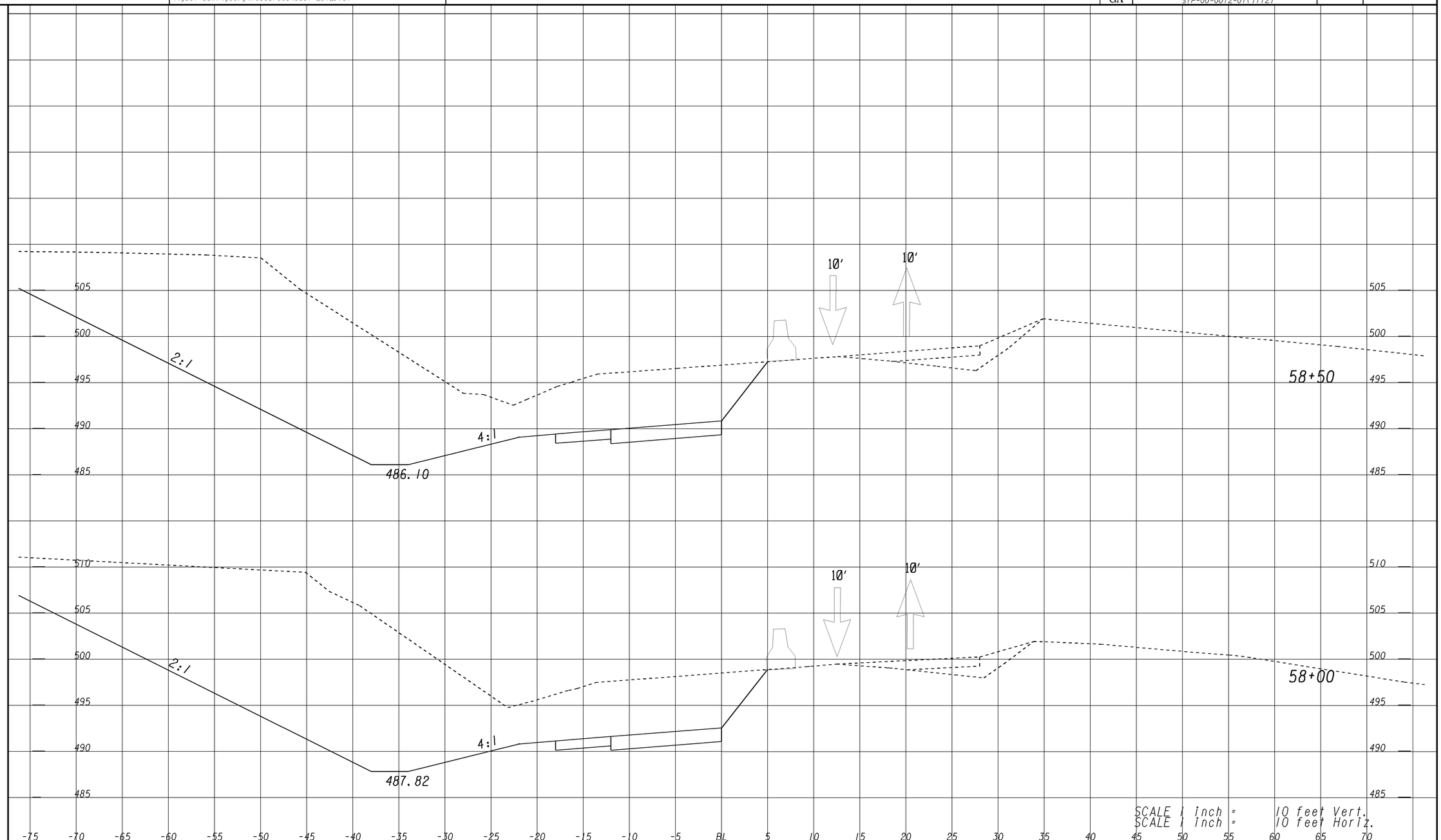
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

DRAWING NO. 19 -59

SUXSEW

Fri Feb 07 09:43:45 2014 skldd	Fri Feb 07 09:43:45 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

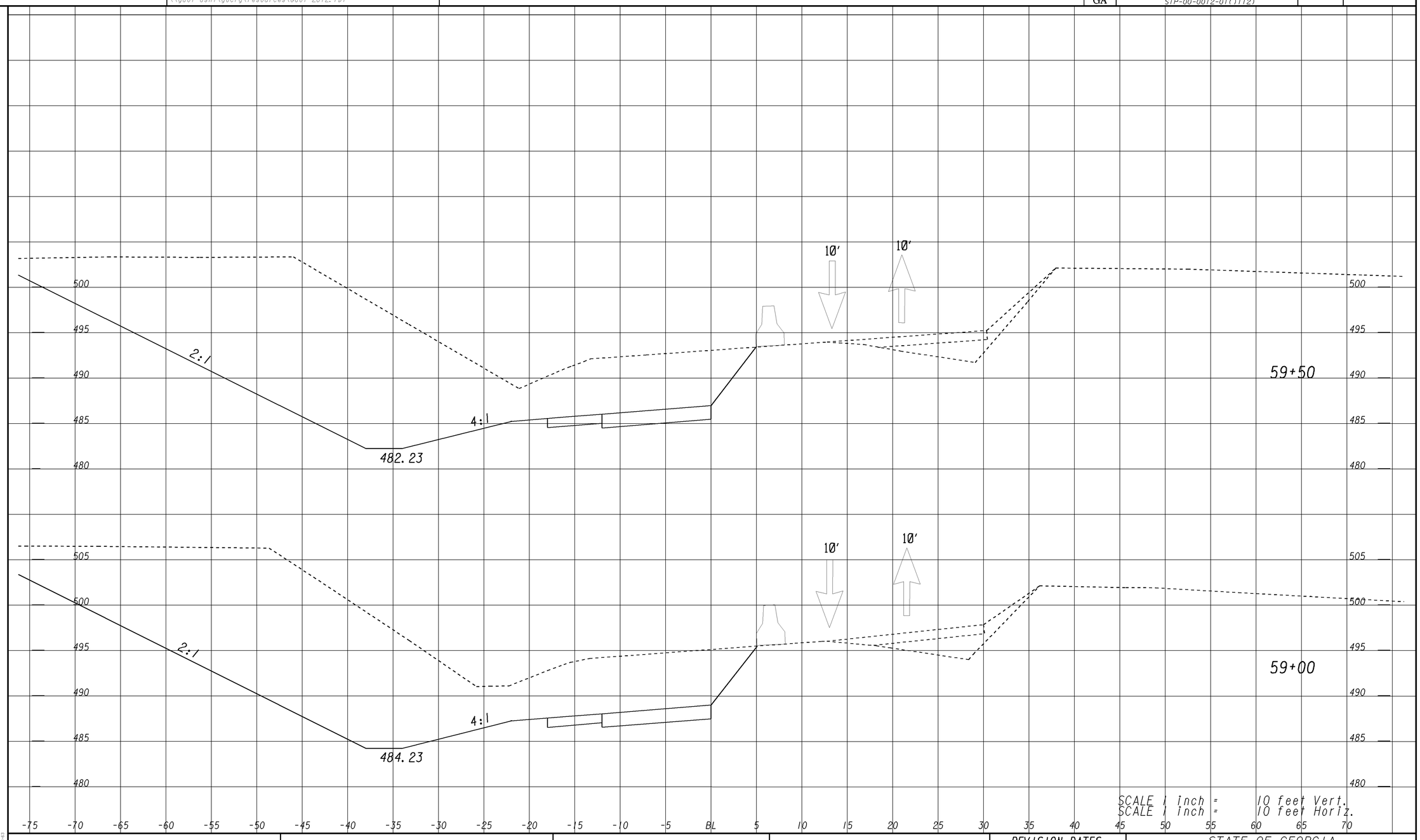
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

DRAWING NO. 19 -60

Fri Feb 07 09:43:43 2014 sk1dd	Fri Feb 07 09:43:43 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

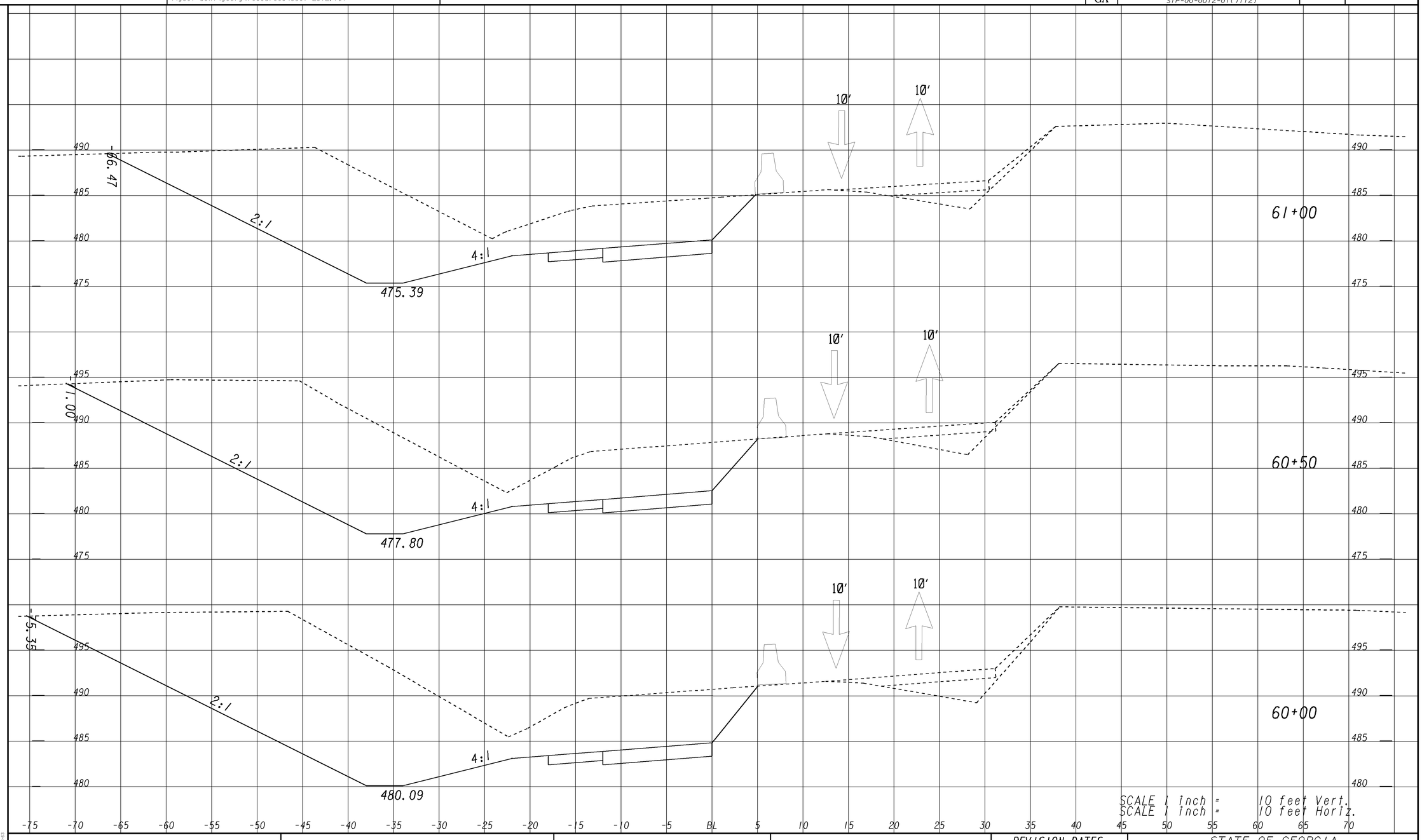
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

DRAWING NO. 19 -61

SUXSEW

Fri Feb 07 09:43:42 2014 sk1dd	Fri Feb 07 09:43:42 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

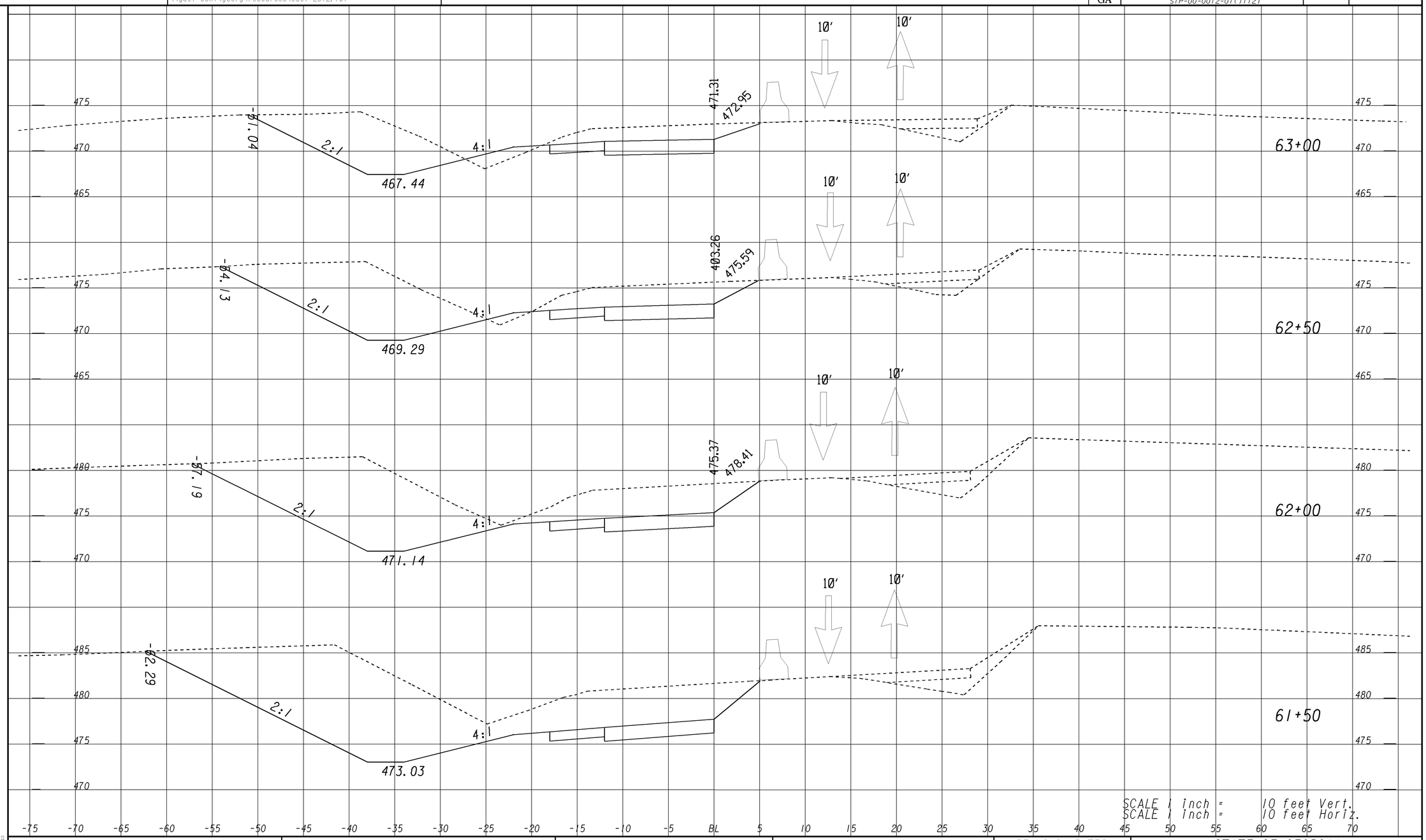
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

DRAWING NO. 19 -62

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

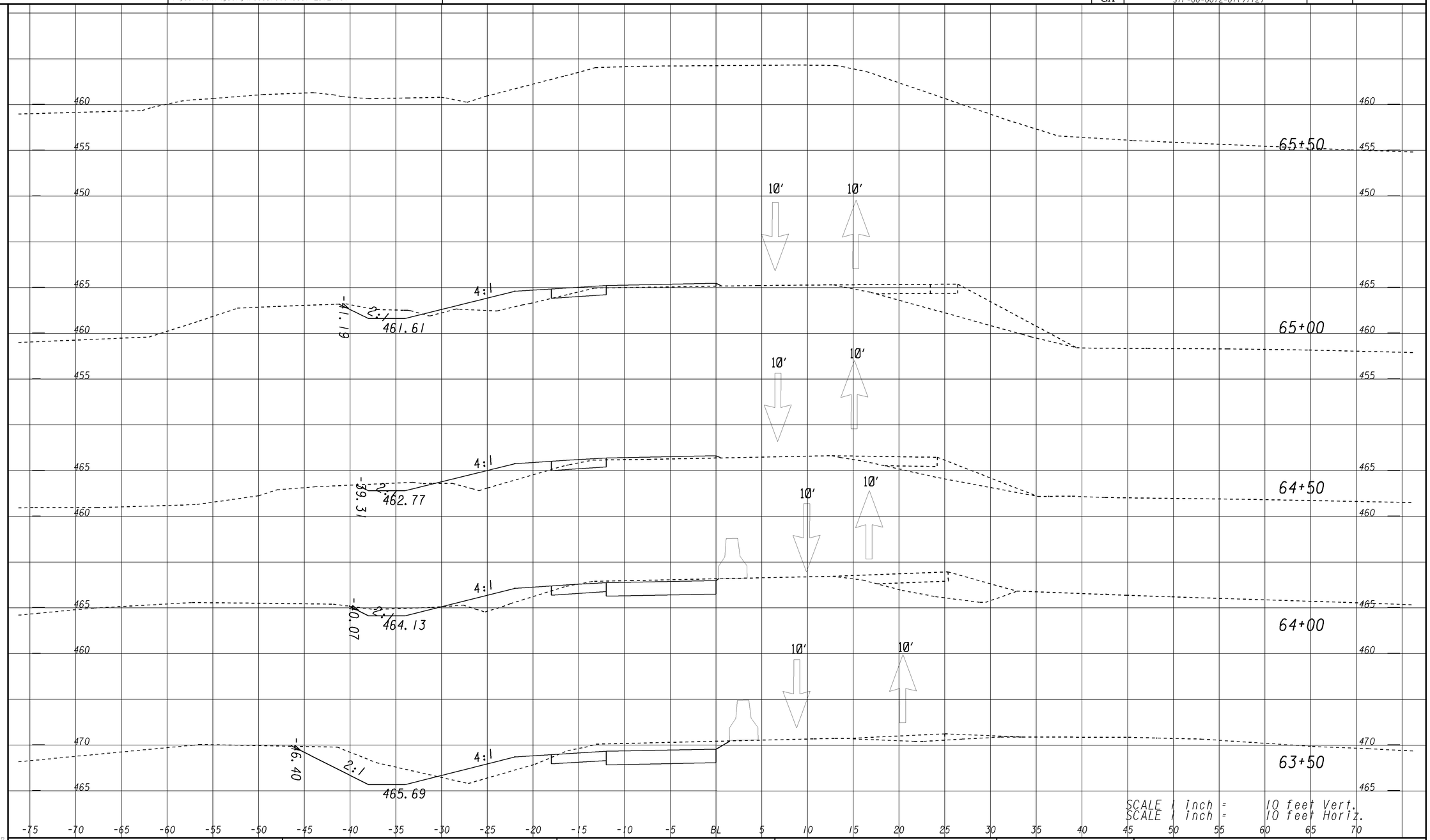
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

DRAWING NO. 19 -63

SUXSEW

Fri Feb 07 09:43:39 2014 skldd	Fri Feb 07 09:43:39 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage2.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 2

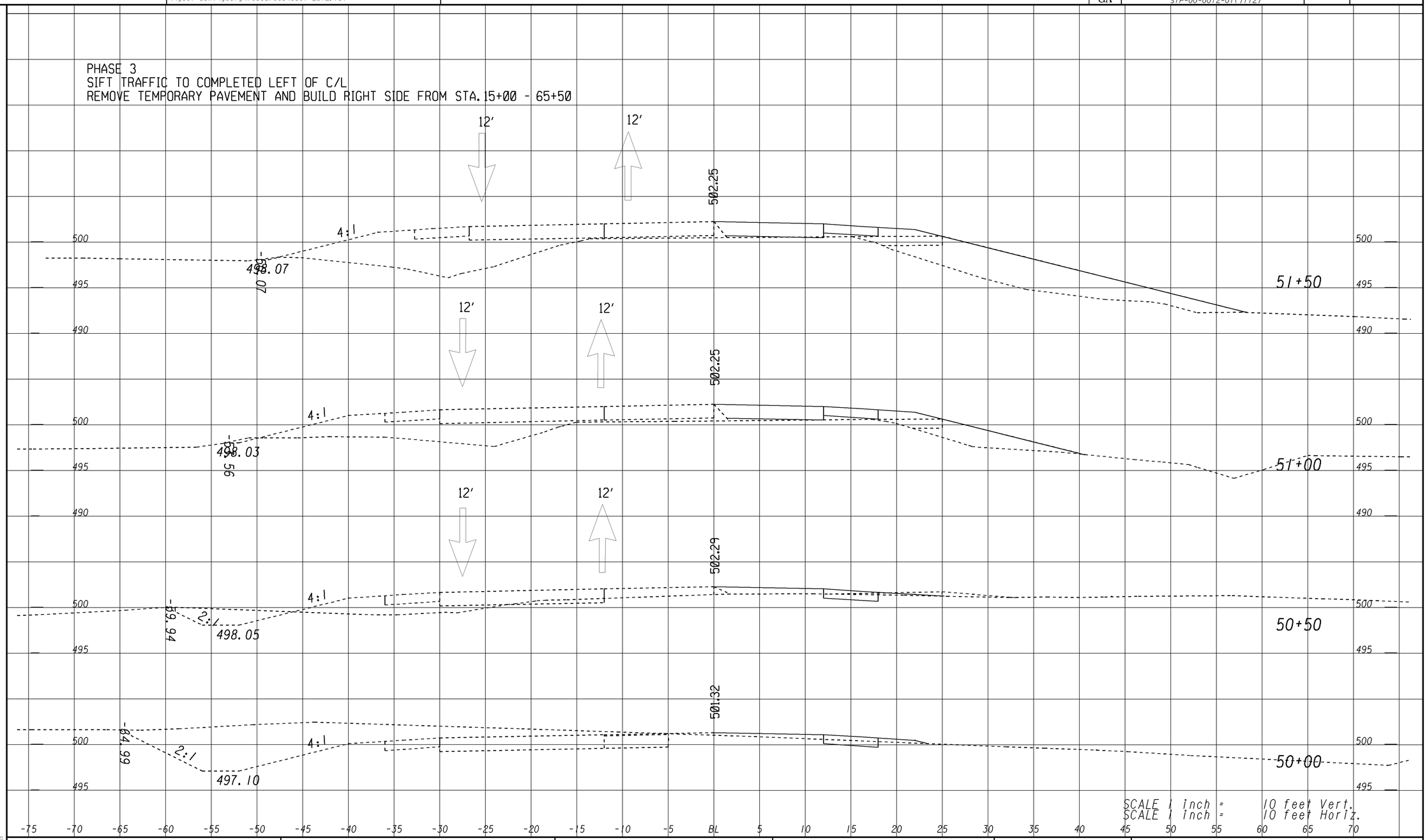
DRAWING No. 19 -64

SUXSEW

Fri Feb 07 09:43:38 2014 Fri Feb 07 09:43:38 2014
skldd
\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl
C:\dgn\662650\662650XSSR108Stage3.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		

PHASE 3
SIFT TRAFFIC TO COMPLETED LEFT OF C/L
REMOVE TEMPORARY PAVEMENT AND BUILD RIGHT SIDE FROM STA. 15+00 - 65+50



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

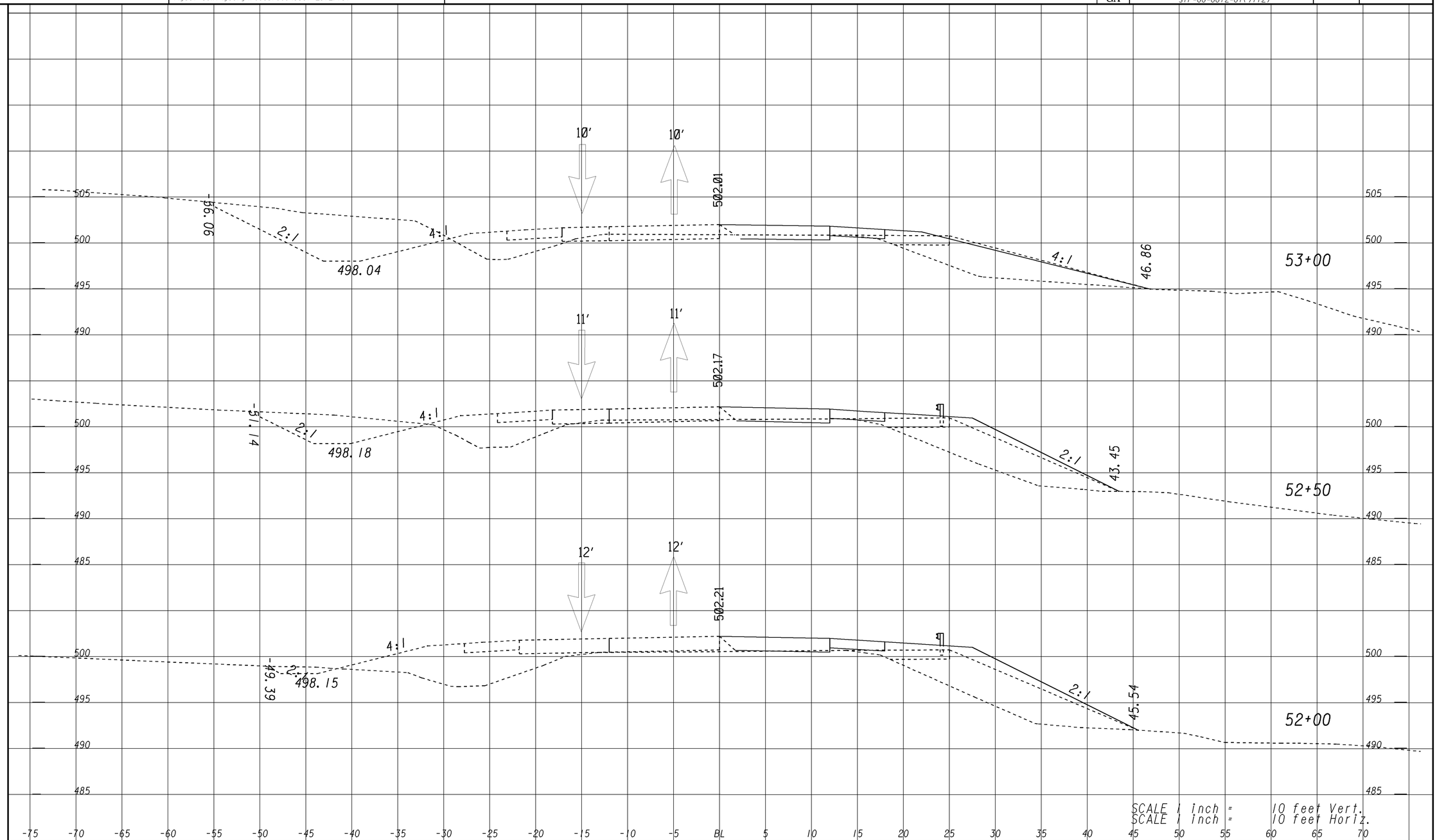
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING NO. 19 -65

Fri Feb 07 09:43:35 2014 skldd	Fri Feb 07 09:43:35 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

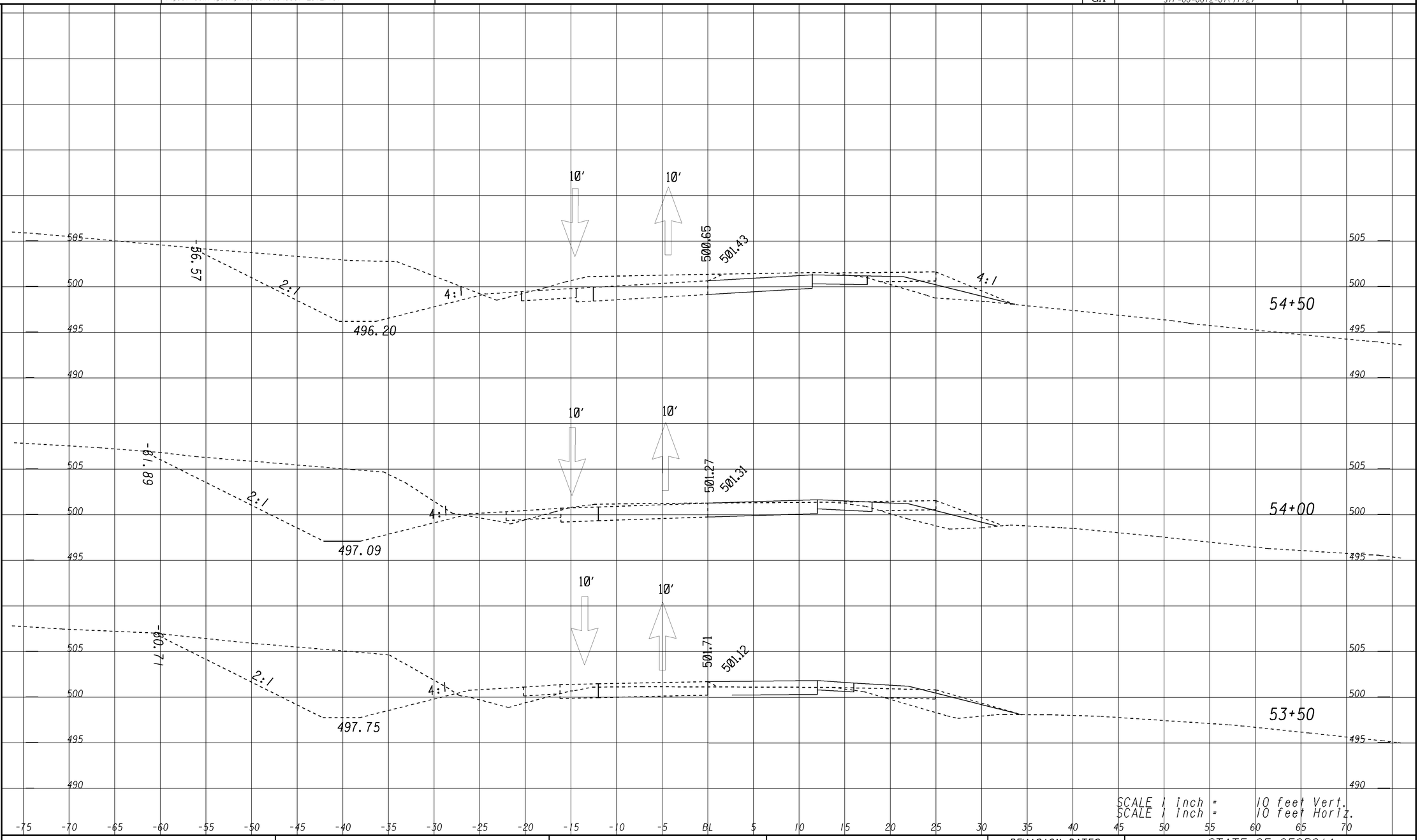
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING No. 19 -66

Fri Feb 07 09:43:33 2014 skldd	Fri Feb 07 09:43:33 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

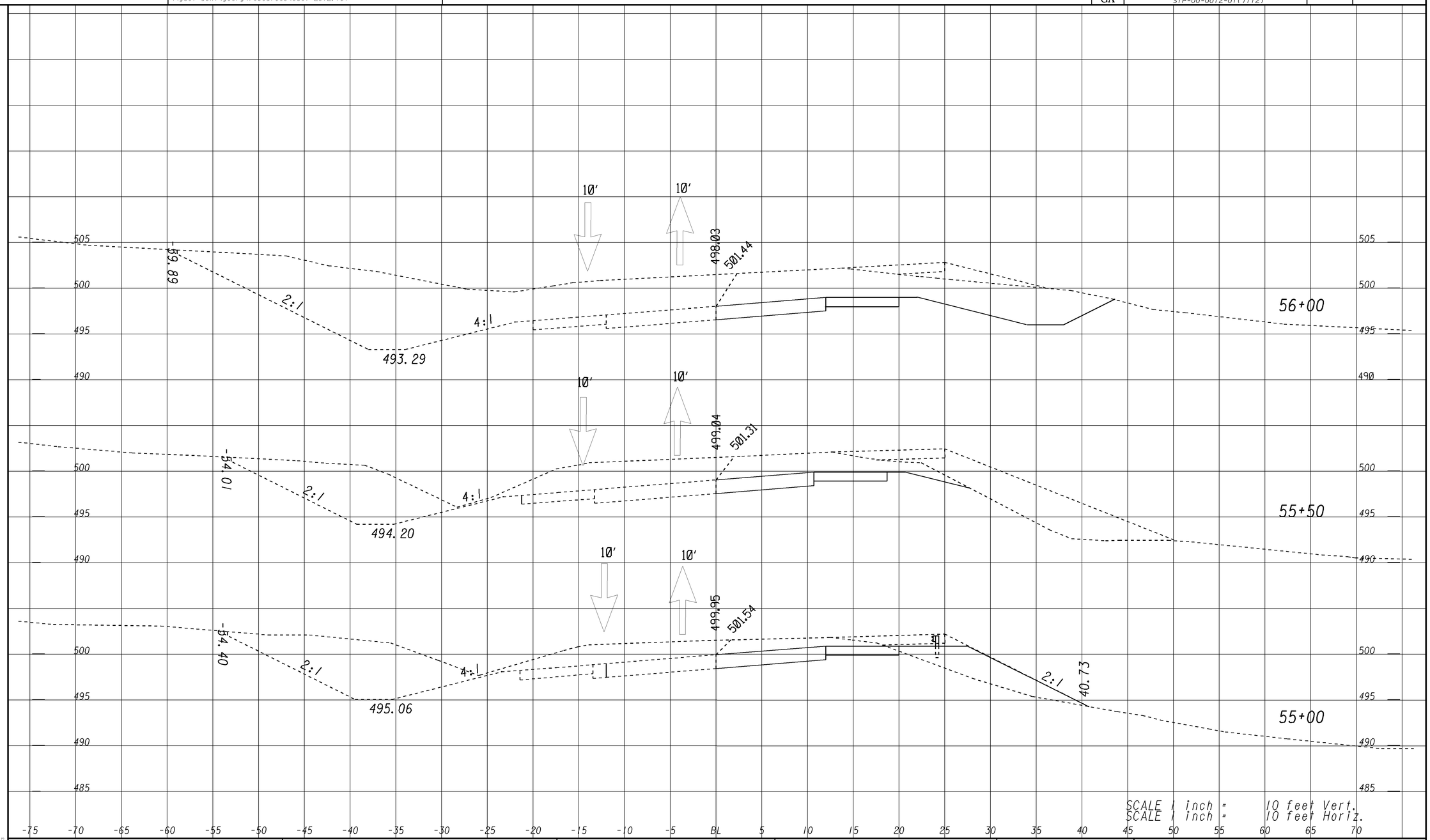
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING No. 19 -3

Fri Feb 07 09:43:31 2014 skldd	Fri Feb 07 09:43:31 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

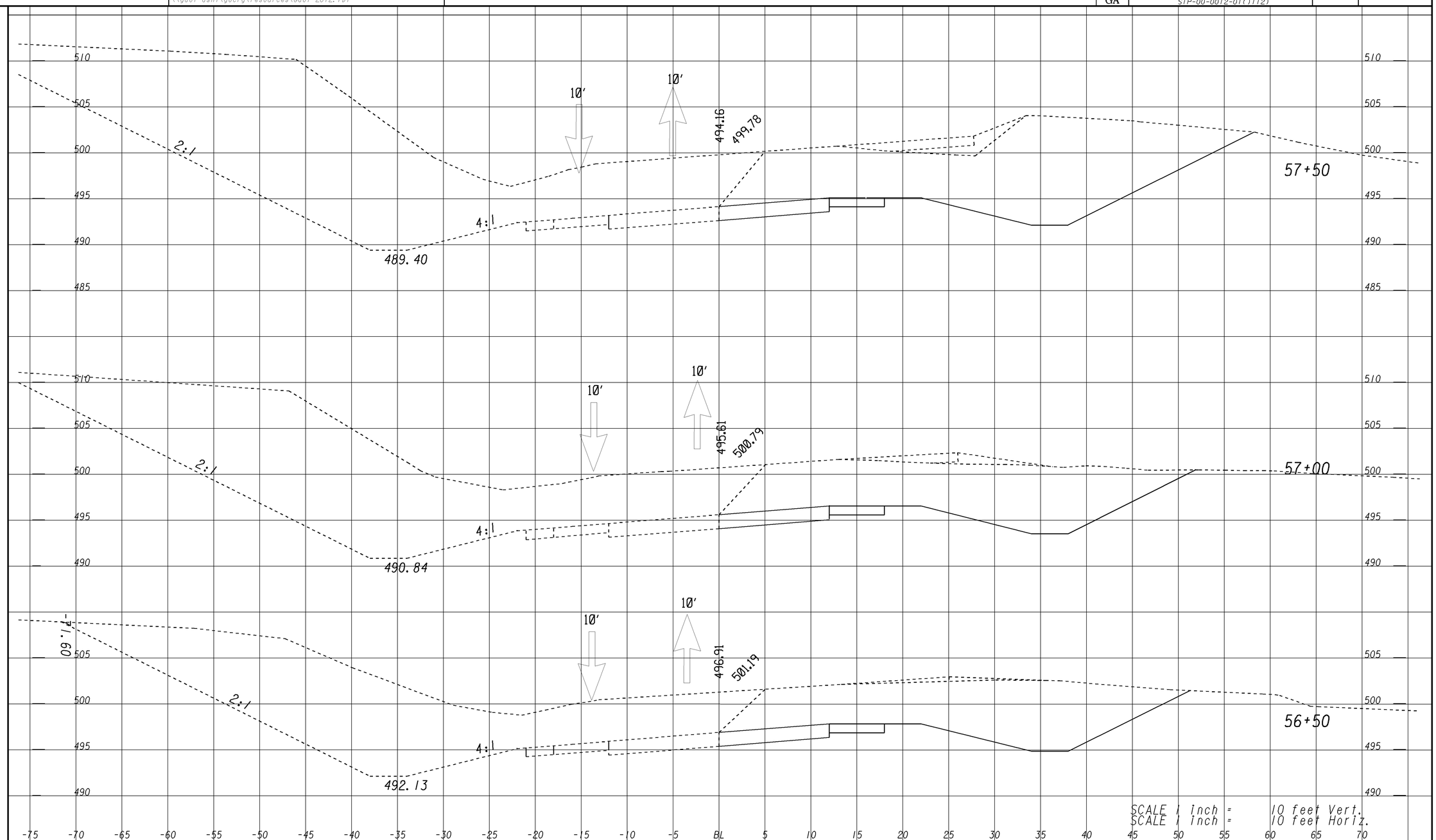
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING No. 19 -68

Fri Feb 07 09:43:29 2014 sk1dd	Fri Feb 07 09:43:29 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

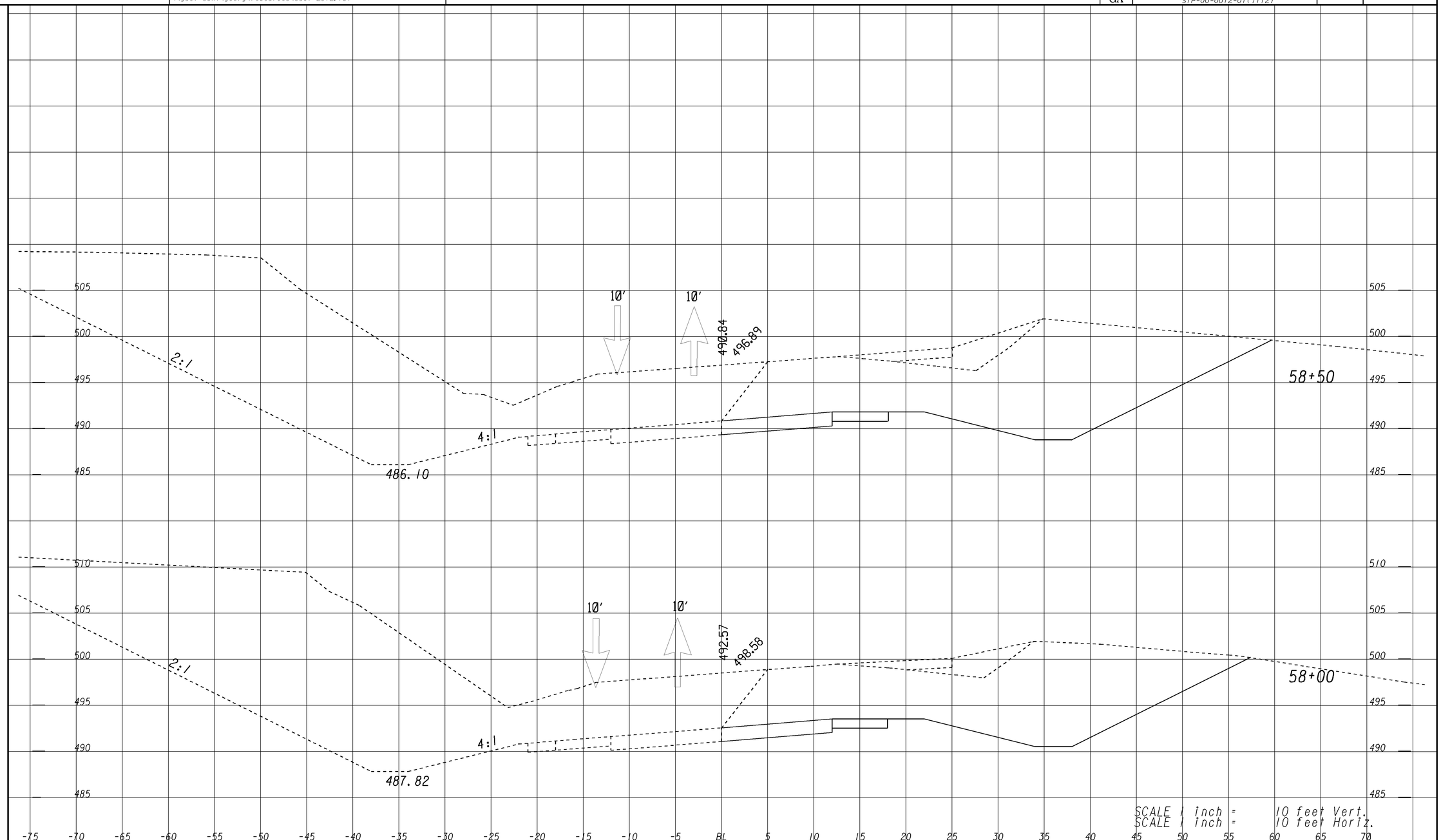
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING No. 19 -69

Fri Feb 07 09:43:27 2014 sk1dd	Fri Feb 07 09:43:27 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

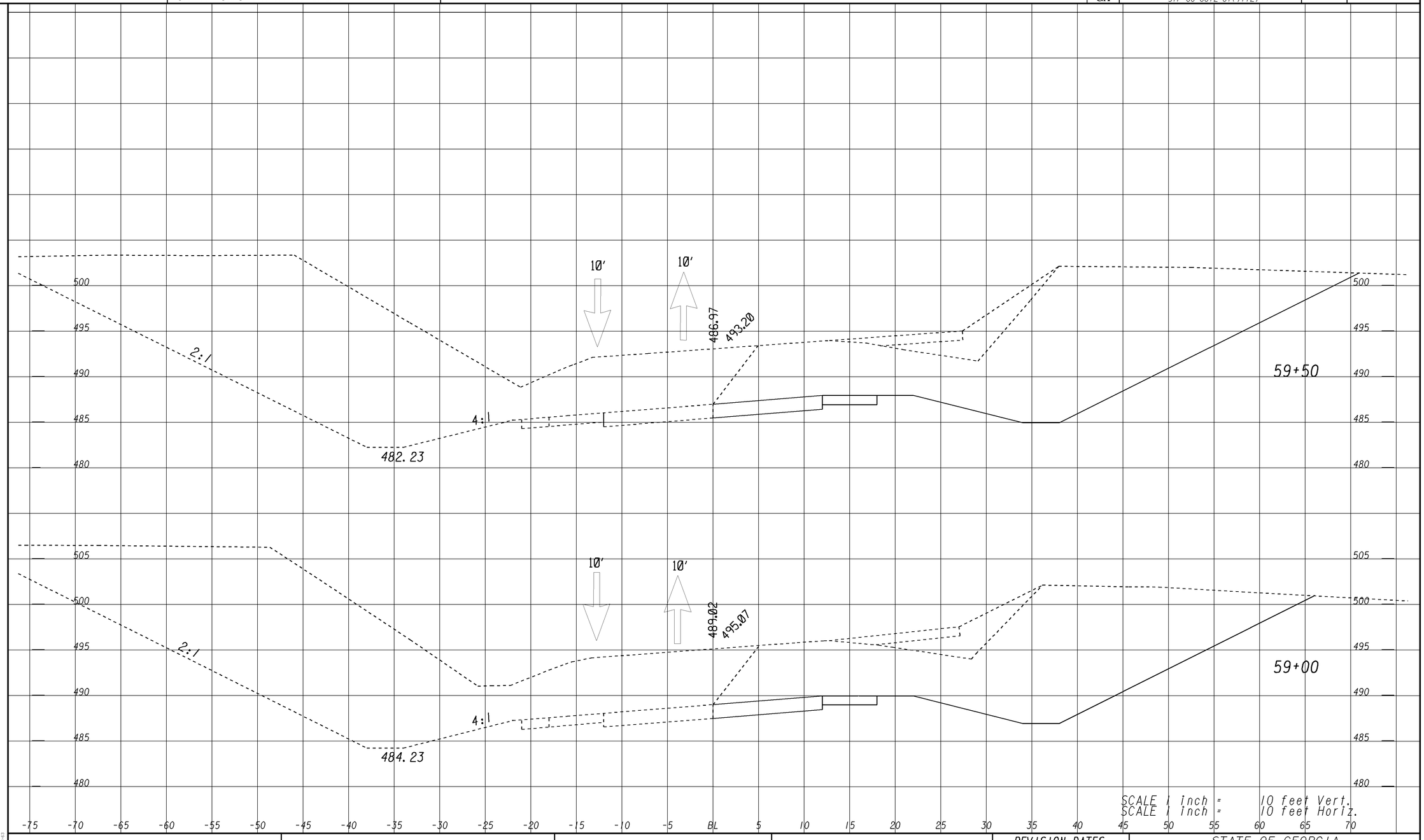
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING NO. 19 -70

Fri Feb 07 09:43:25 2014 Fri Feb 07 09:43:25 2014 sk1dd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE GA	PROJECT NUMBER STP-00-0012-01()112)	SHEET NO.	TOTAL SHEETS



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

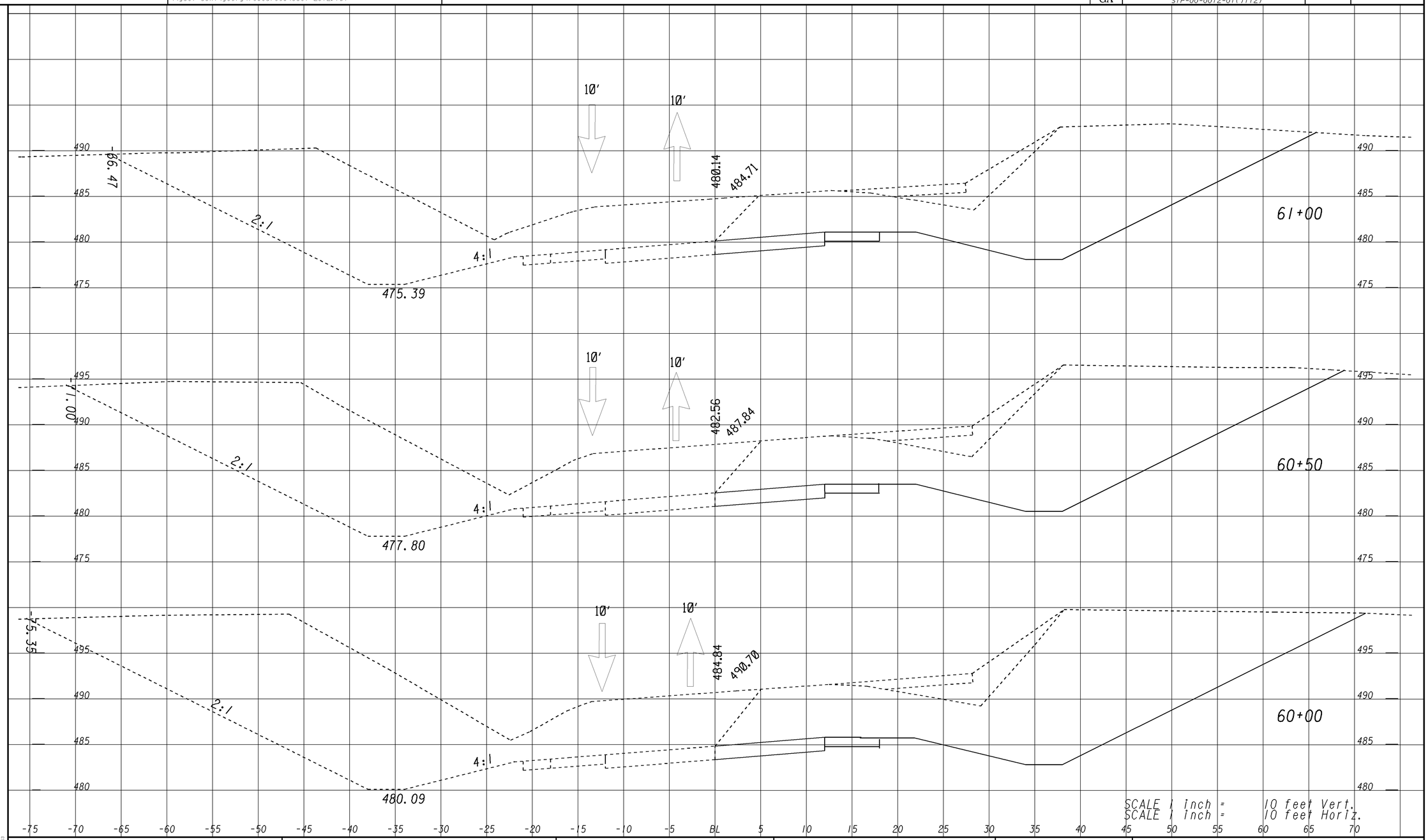
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING NO. 19 -71

SUXSEW

Fri Feb 07 09:43:23 2014 sk1dd	Fri Feb 07 09:43:23 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

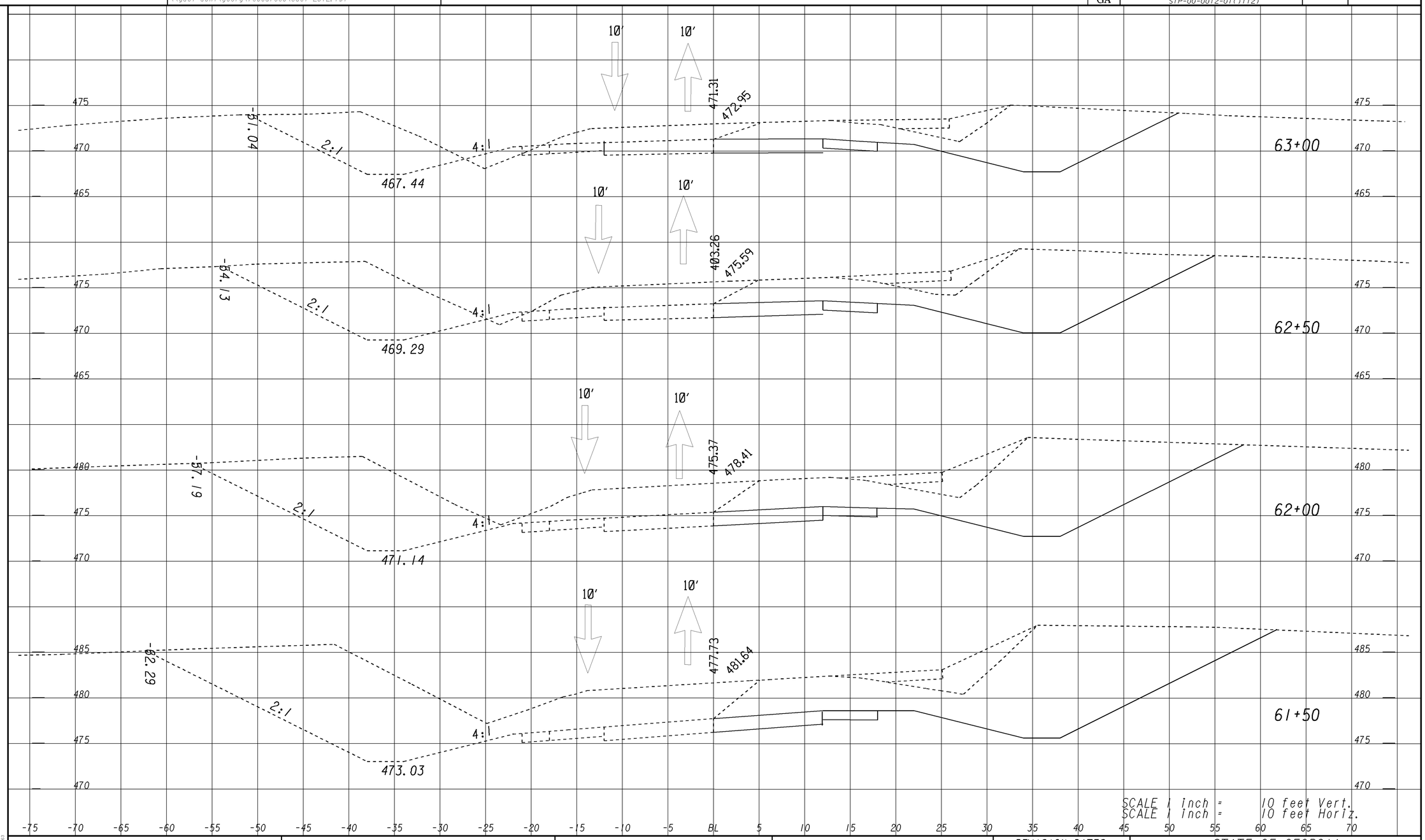
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING NO. 19 -72

Fri Feb 07 09:43:21 2014 skldd	Fri Feb 07 09:43:21 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: DISTRICT SIX ROAD DESIGN

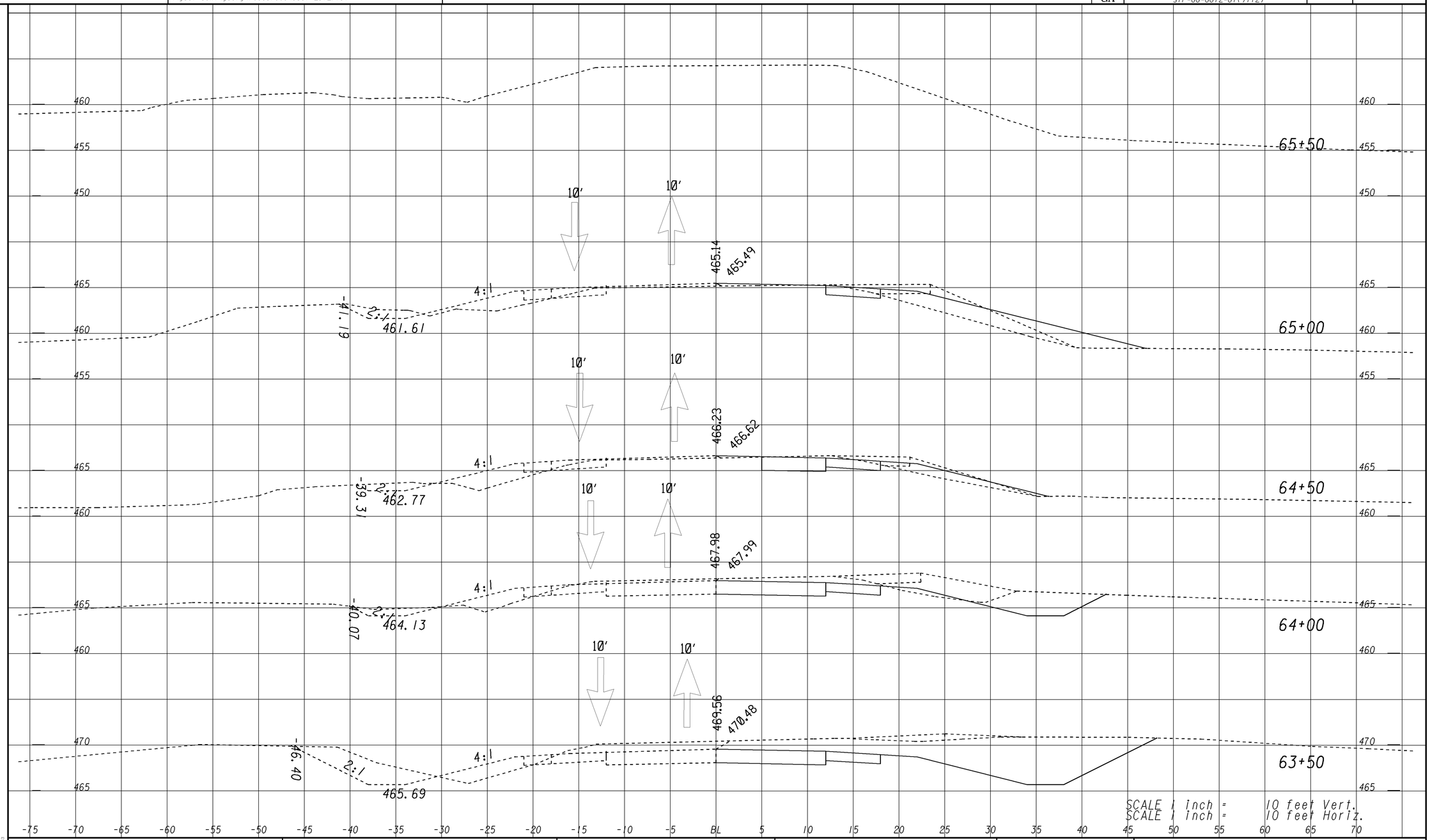
STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING No. 19 -73

SUXSEW

Fri Feb 07 09:43:18 2014 skldd	Fri Feb 07 09:43:18 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108Stage3.DGN	STATE GA	PROJECT NUMBER STP-00-0012-01()112)	SHEET NO.	TOTAL SHEETS



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

STAGING CROSS SECTIONS

SR108 STAGING CROSS SECTION
STAGE 3

DRAWING No. 19 -74

Fri Feb 07 09:40:20 2014 skldd	Fri Feb 07 09:40:20 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XDRAIN.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

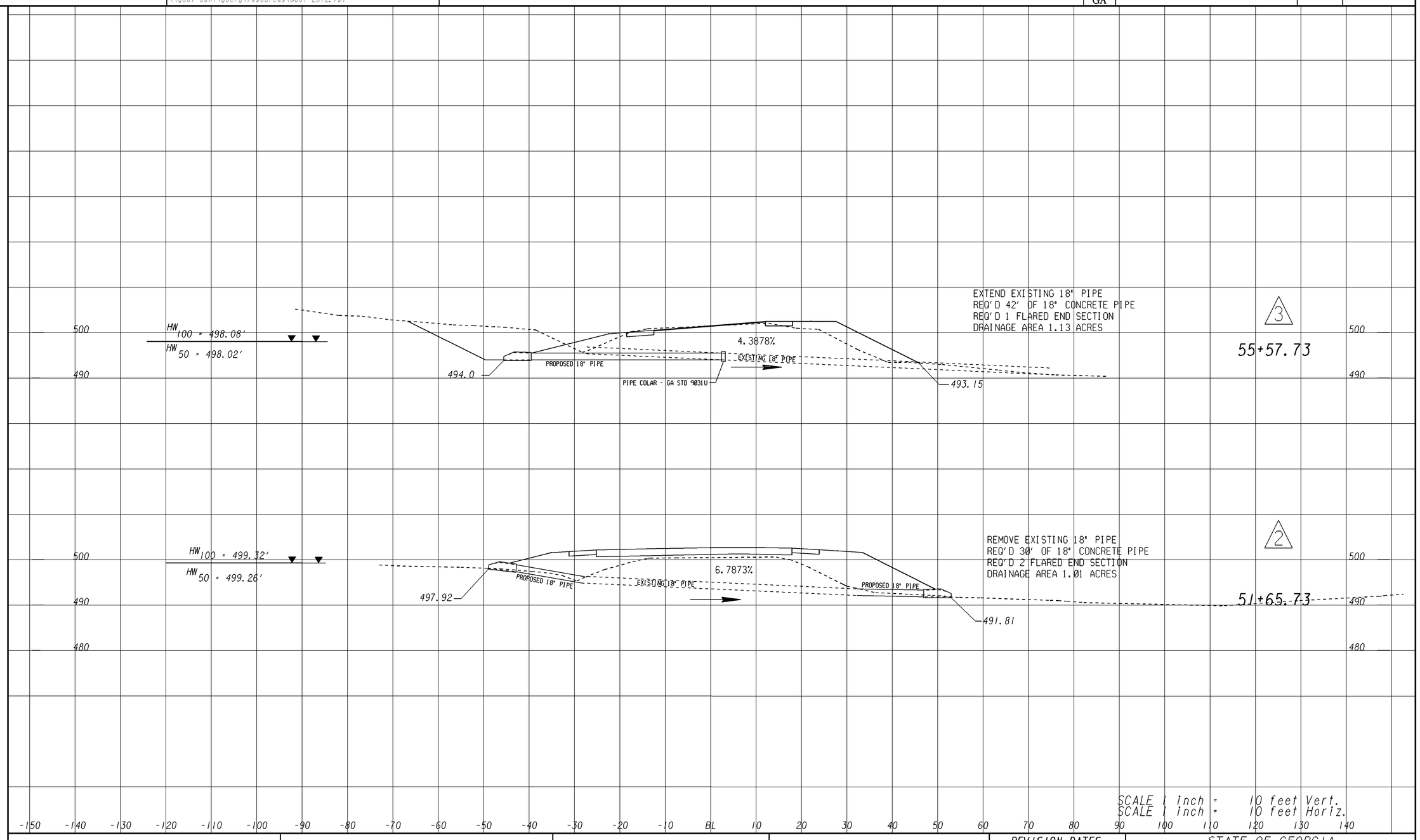
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

DAINAGE CROSS SECTIONS

SR20 DAINAGE CROSS SECTION

DRAWING No. 22-1

Fri Feb 07 09:42:41 2014 skldd	Fri Feb 07 09:42:41 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR108XDRAIN.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

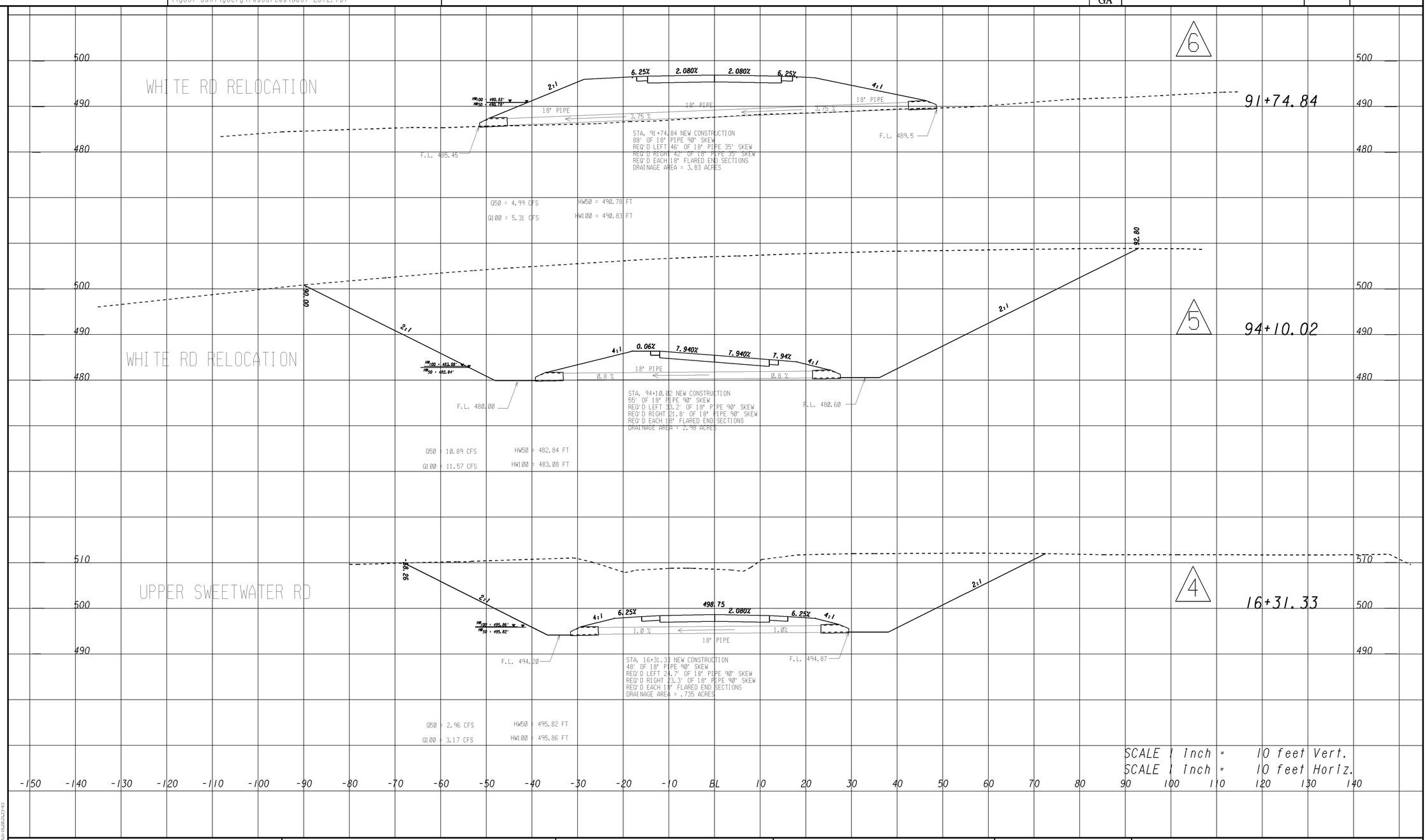
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

DRAINAGE CROSS SECTIONS

SR108 DRAINAGE CROSS SECTION

DRAWING NO. 22-02

Fri Feb 07 09:45:21 2014 skldd	Fri Feb 07 09:45:21 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650WHITERDUPPERSWDRAIN.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

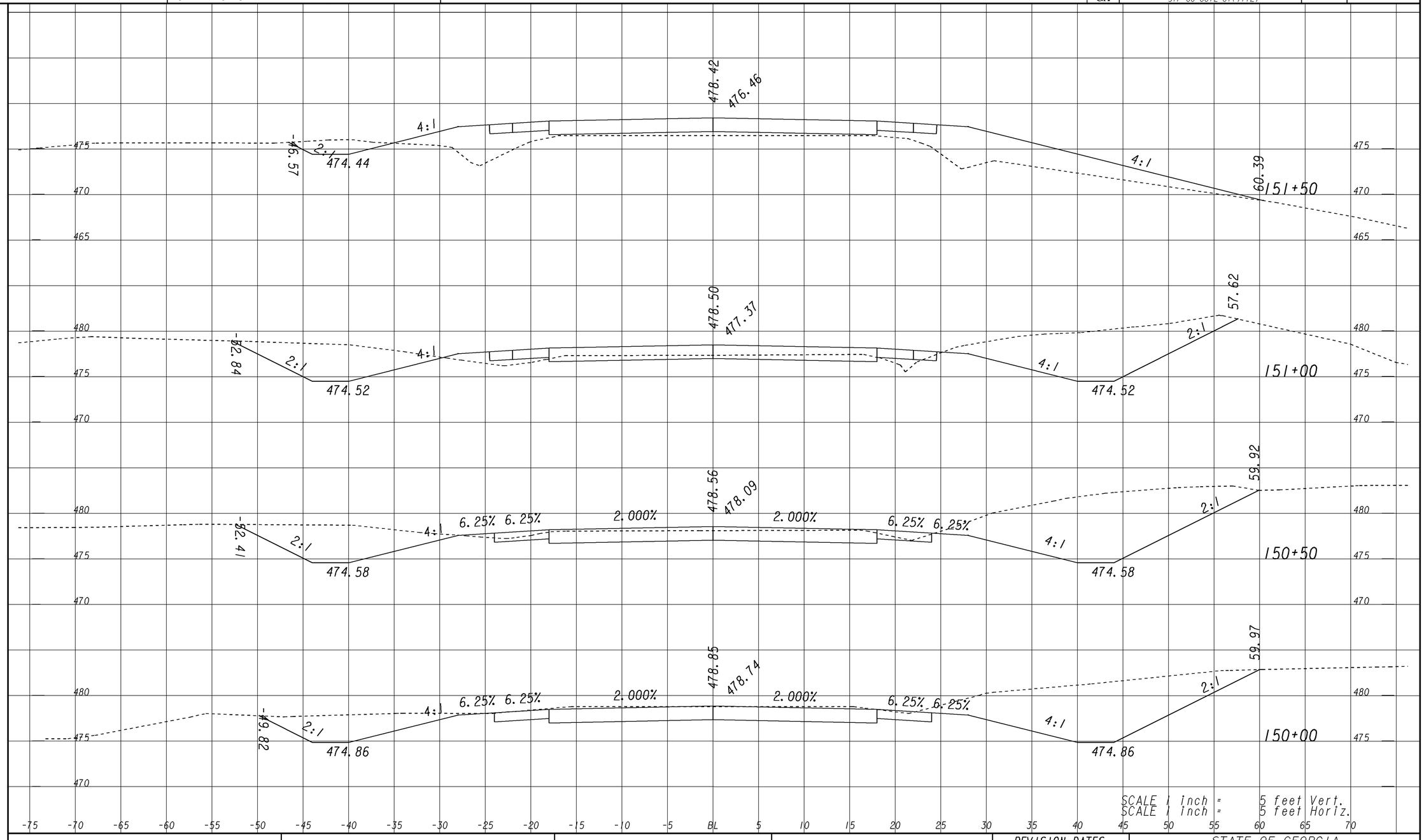
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

DRAINAGE CROSS SECTIONS

UPPER SWEETWATER RD & WHITE RD RELOCATION DRAIN XSEC

DRAWING NO. 22-03

Fri Feb 07 09:40:18 2014 skldd	Fri Feb 07 09:40:18 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

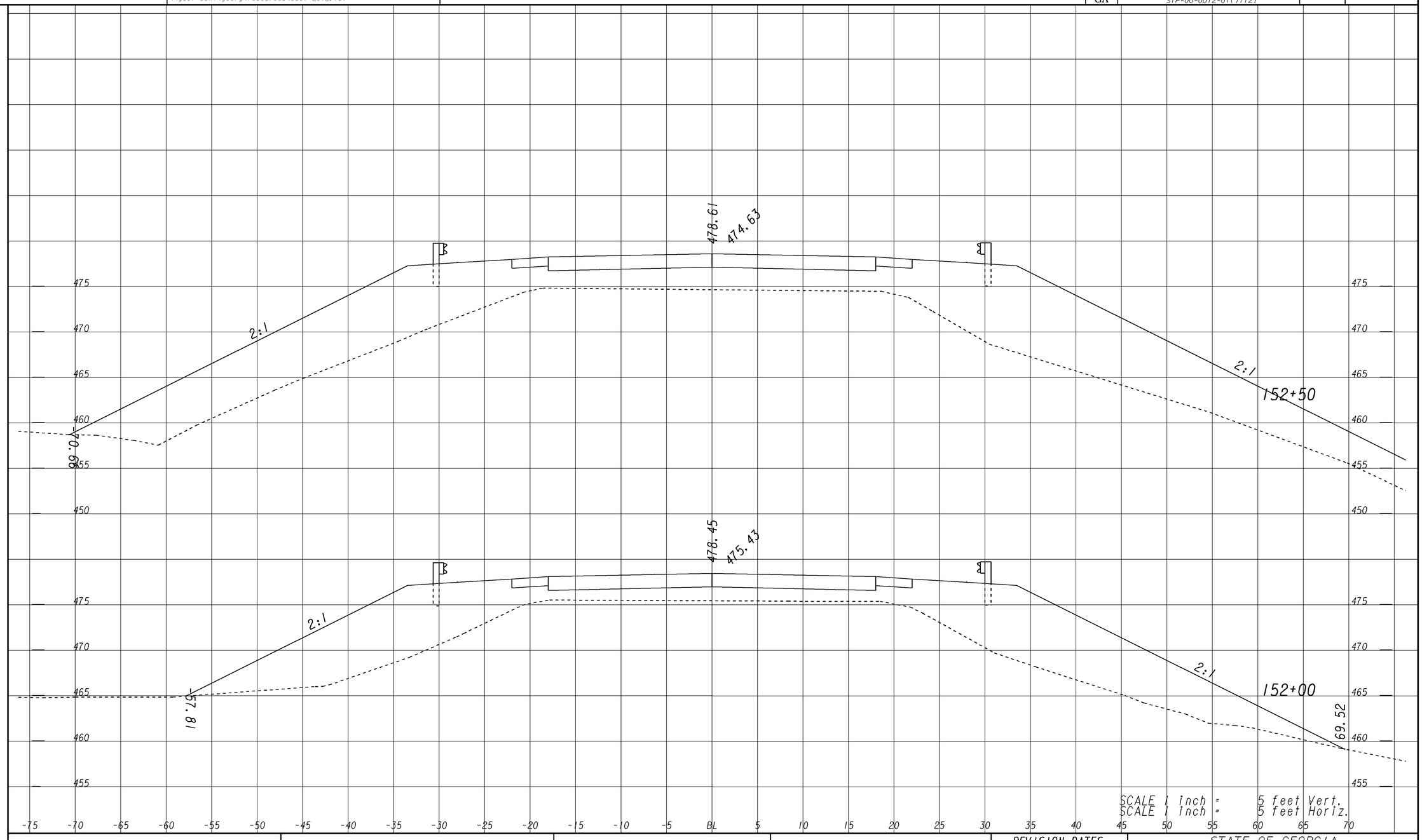
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING No. 23-1



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

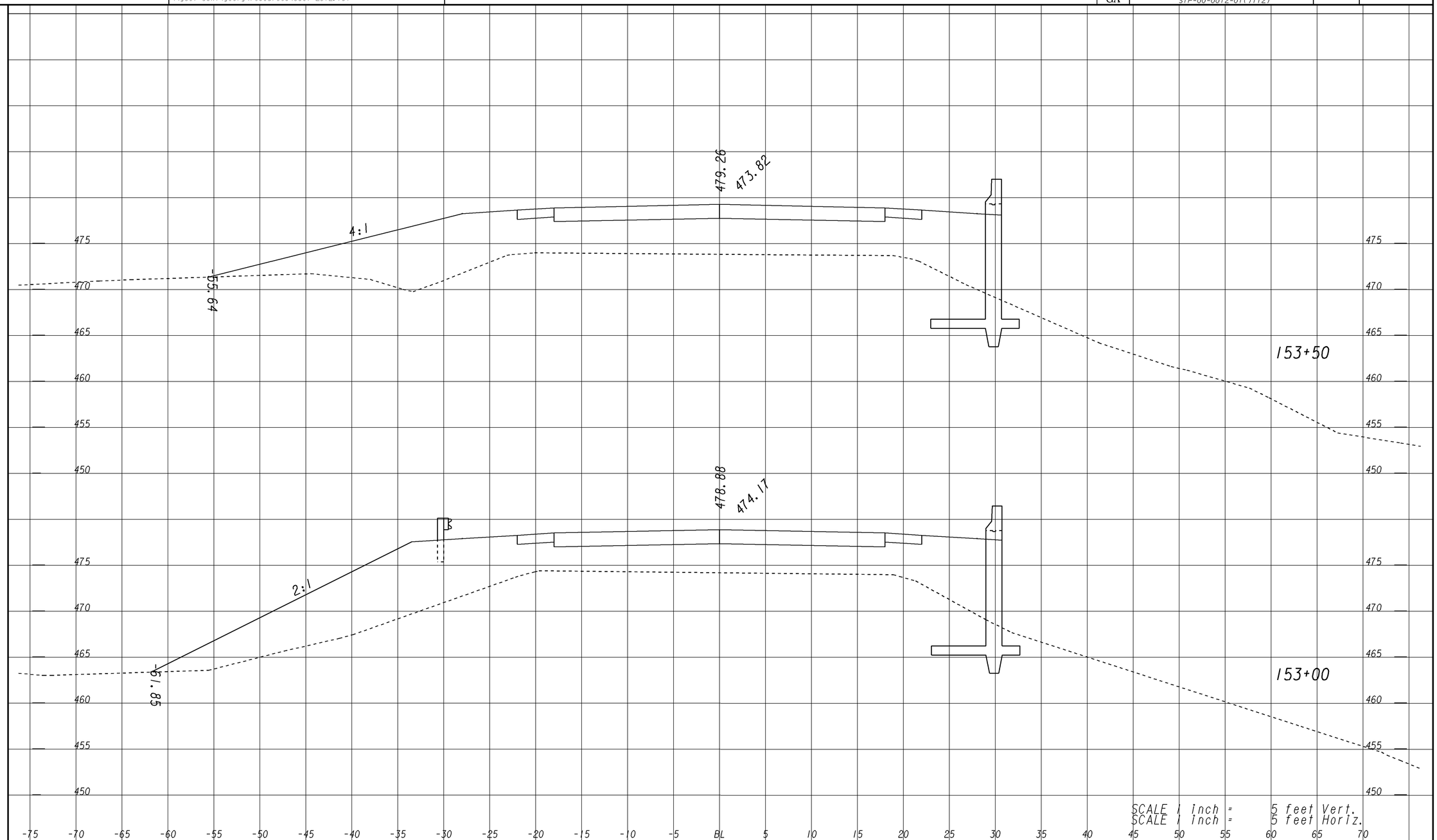
EARTHWORK CROSS SECTIONS

SR20

DRAWING NO. 23-2

SUXSEW

Fri Feb 07 09:40:11 2014 sk1dd	Fri Feb 07 09:40:11 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

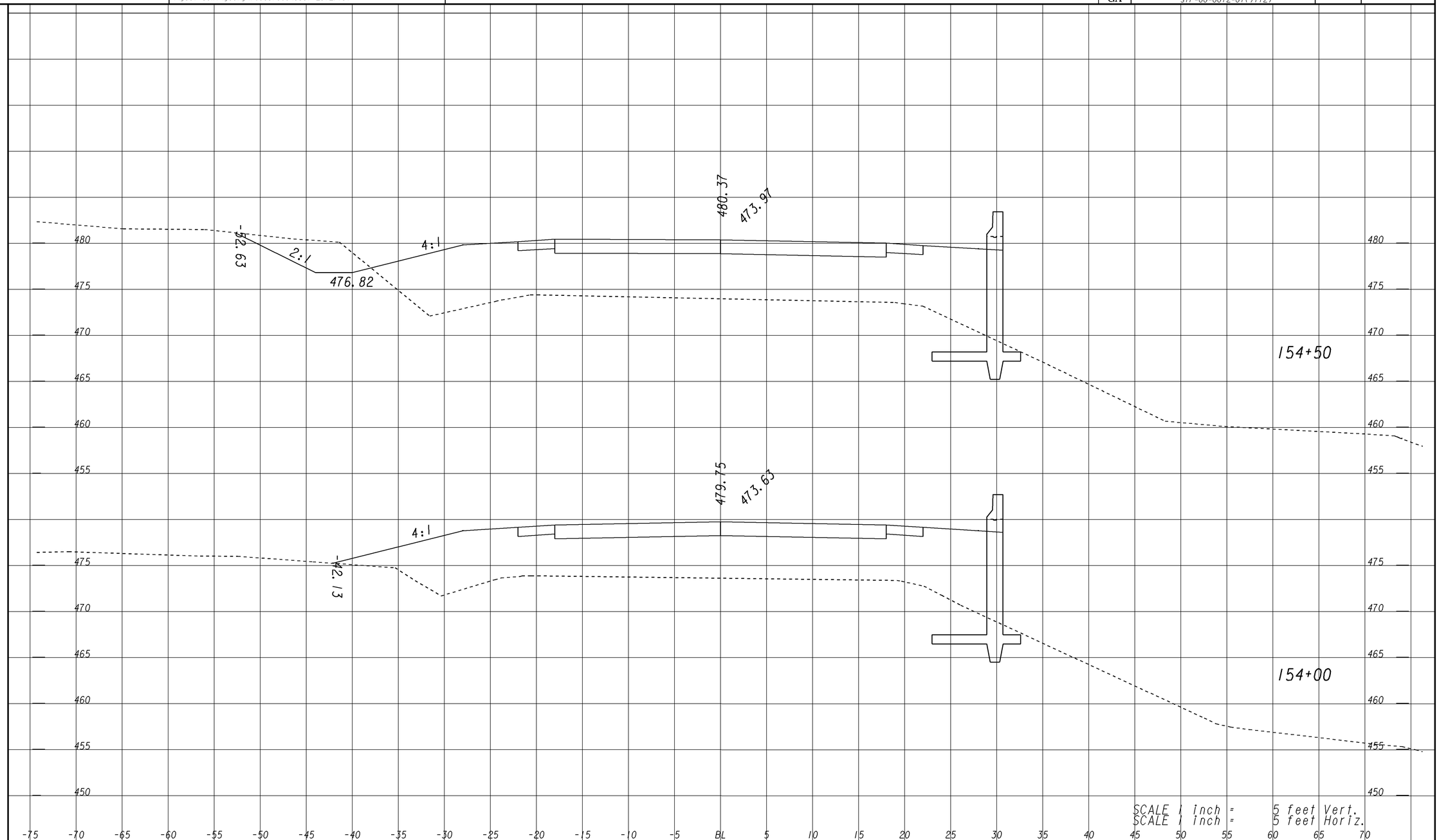
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING NO. 23-3

Fri Feb 07 09:40:09 2014 skldd	Fri Feb 07 09:40:09 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

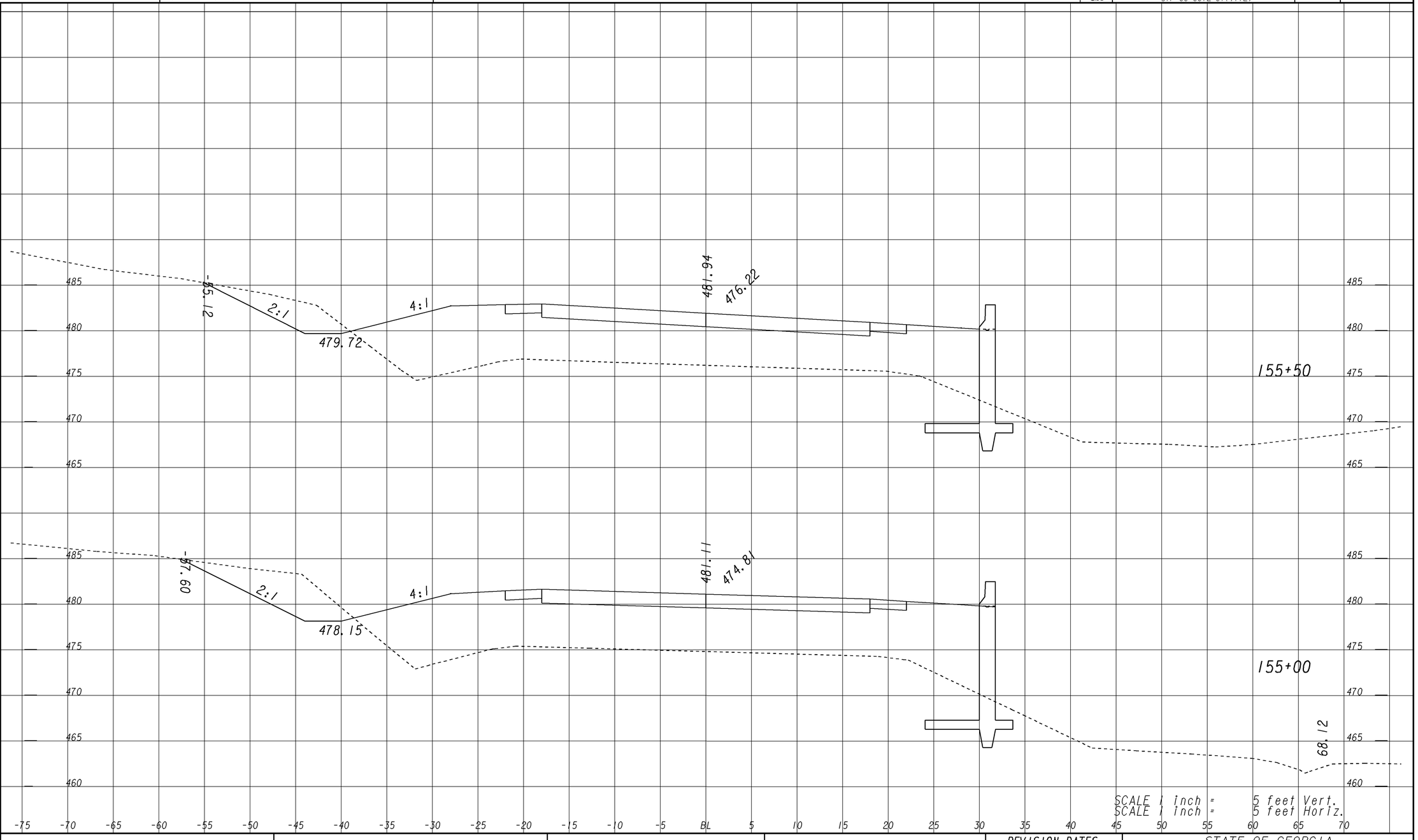
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING No. 23-4

Fri Feb 07 09:40:03 2014 sk1dd	Fri Feb 07 09:40:03 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		

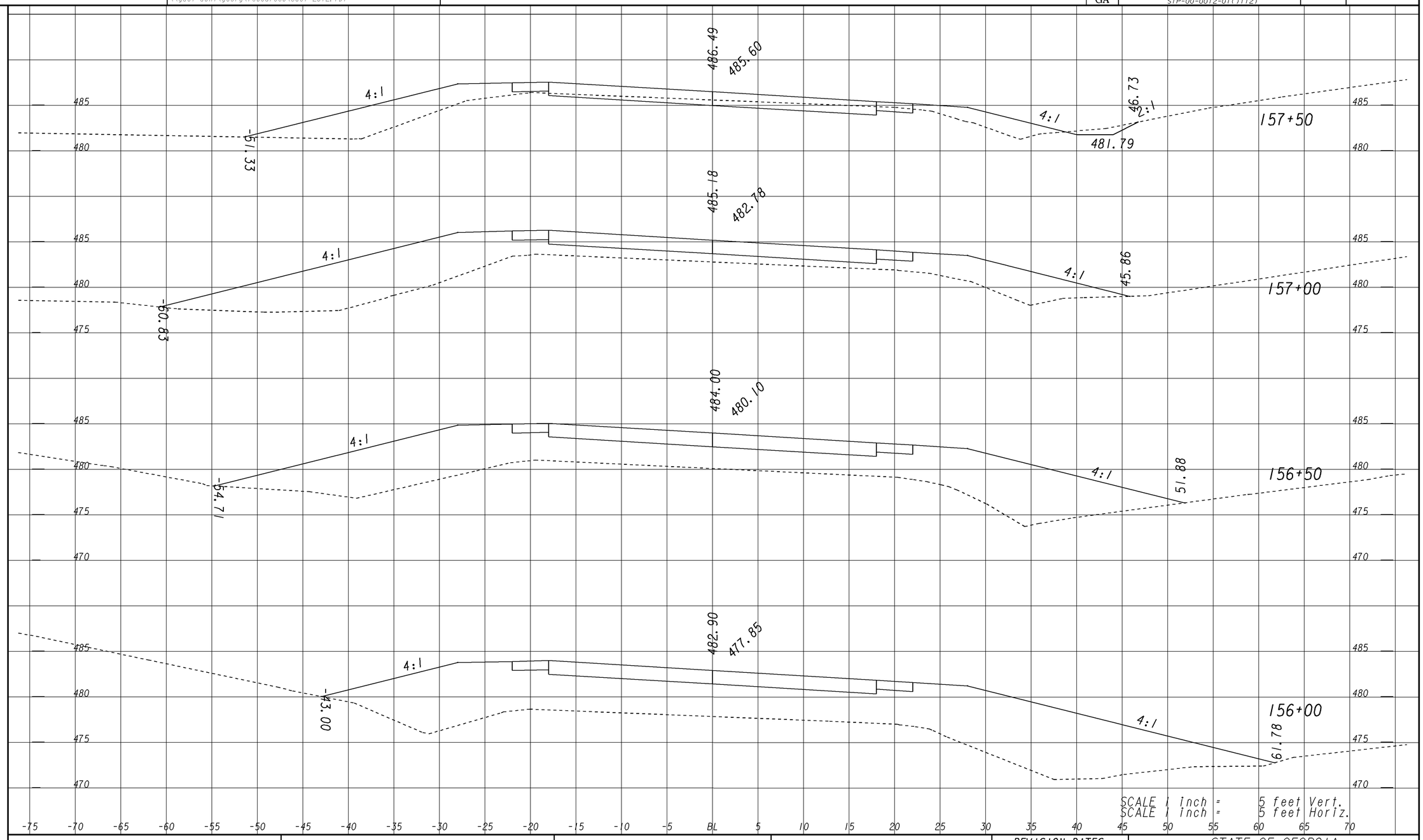


REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
	OFFICE: DISTRICT SIX ROAD DESIGN
	EARTHWORK CROSS SECTIONS
	SR20
	DRAWING No. 23-5

GEORGIA
DEPARTMENT OF TRANSPORTATION

SUXSEW

Fri Feb 07 09:40:03 2014 skldd	Fri Feb 07 09:40:03 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

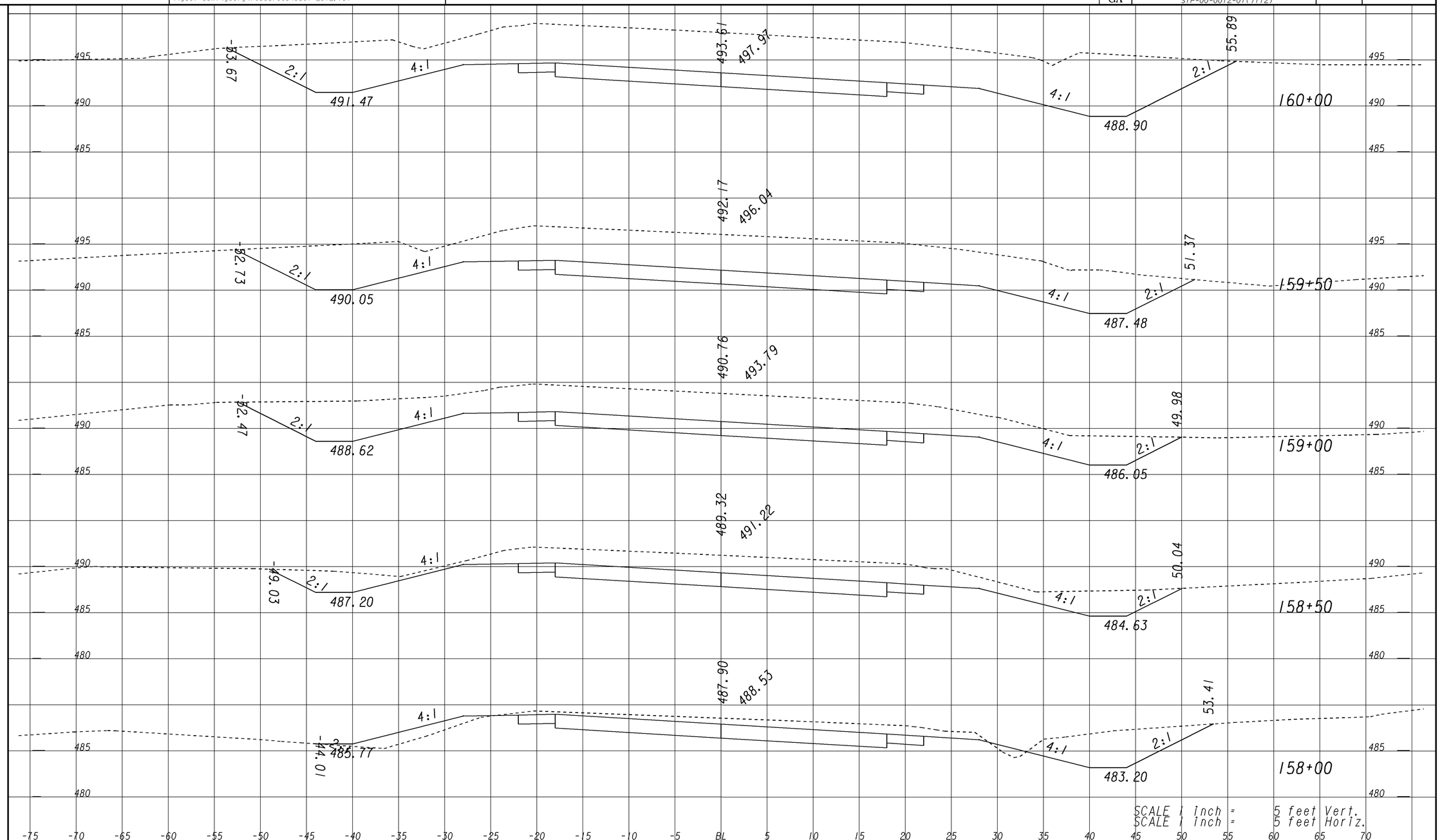
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING No. 23-6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

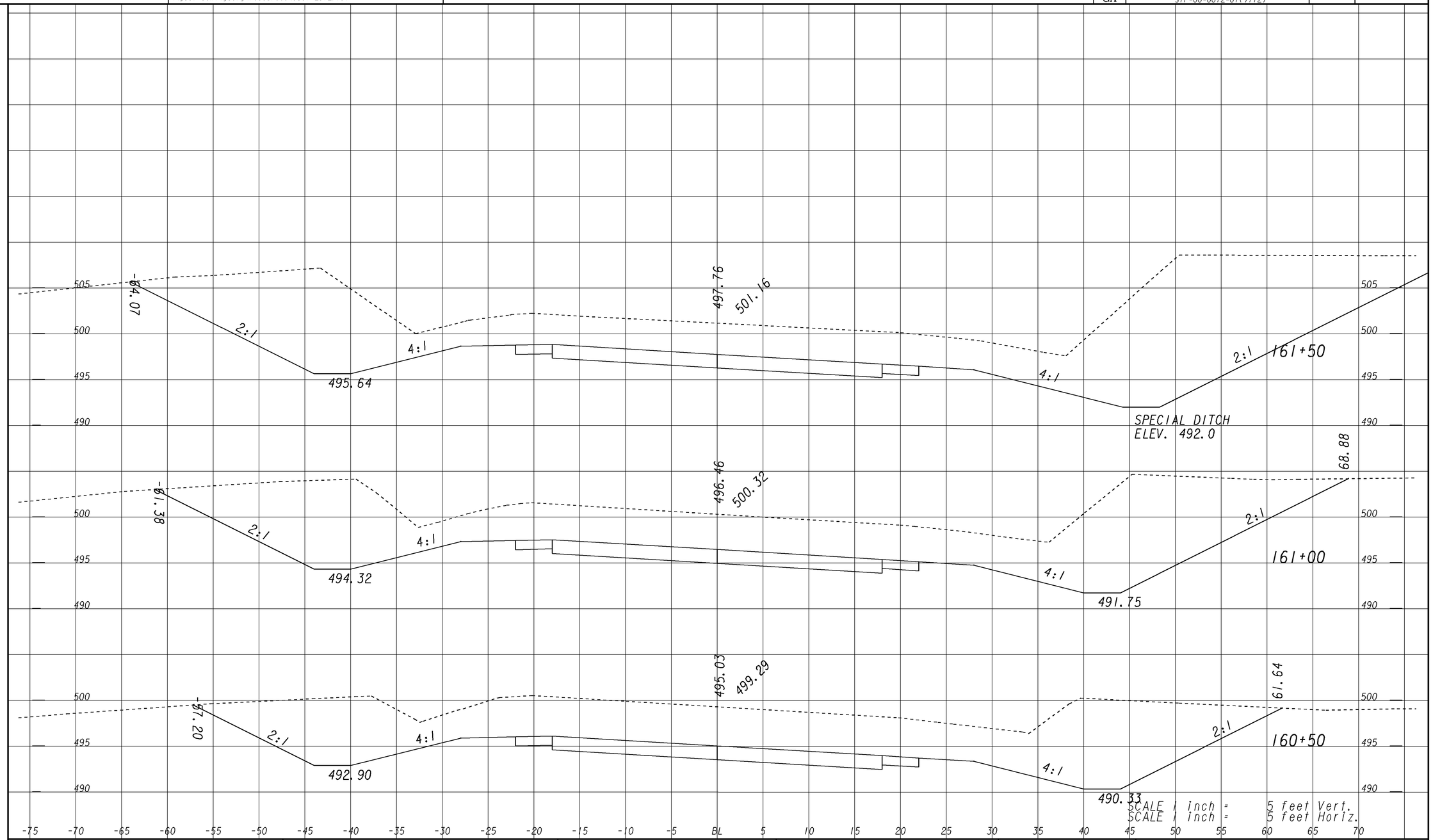
EARTHWORK CROSS SECTIONS

SR20

DRAWING NO. 23-7

SUXSEW

Fri Feb 07 09:39:55 2014 sk1dd	Fri Feb 07 09:39:55 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

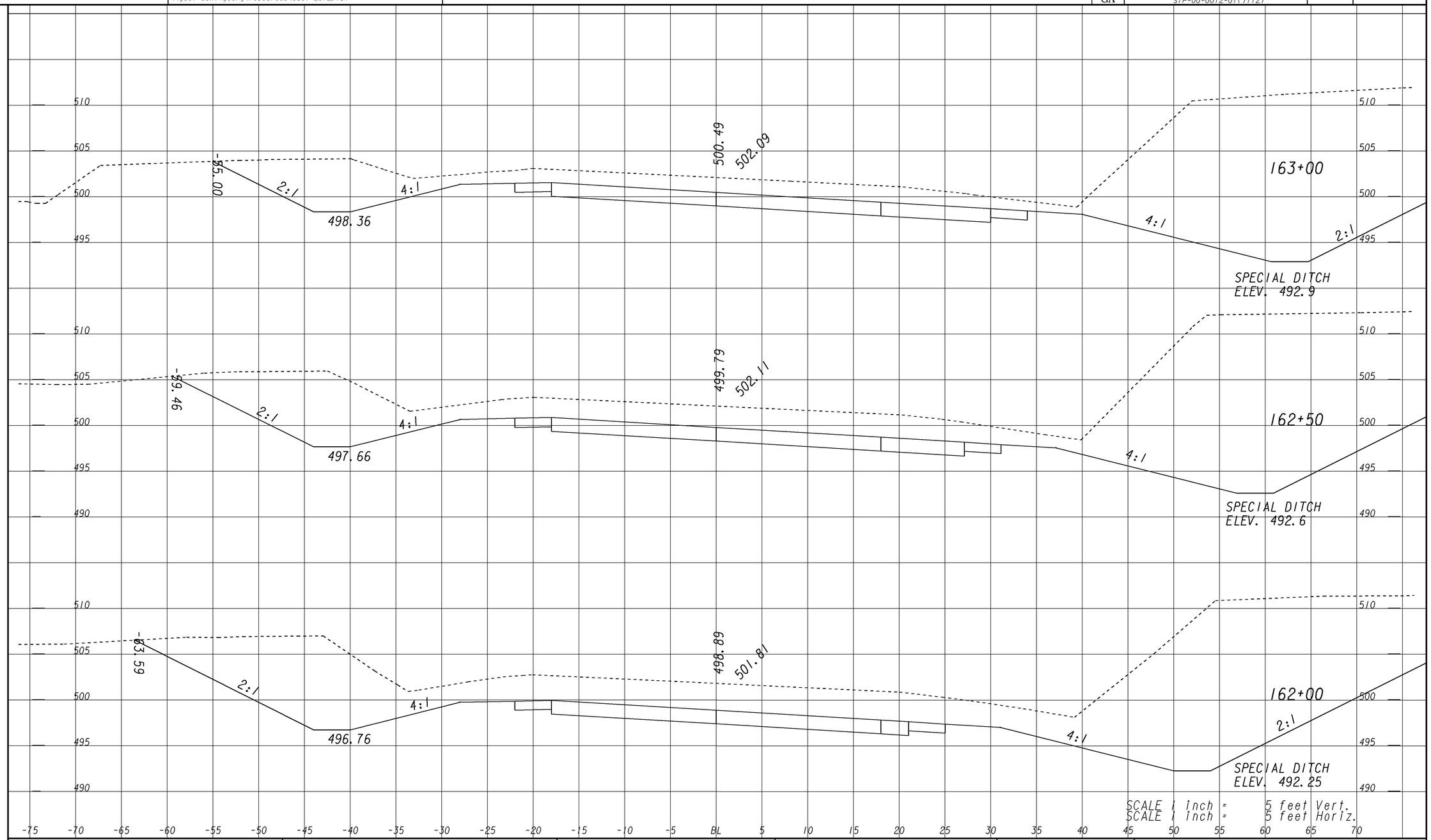
EARTHWORK CROSS SECTIONS

SR20

DRAWING NO. 23-8

SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

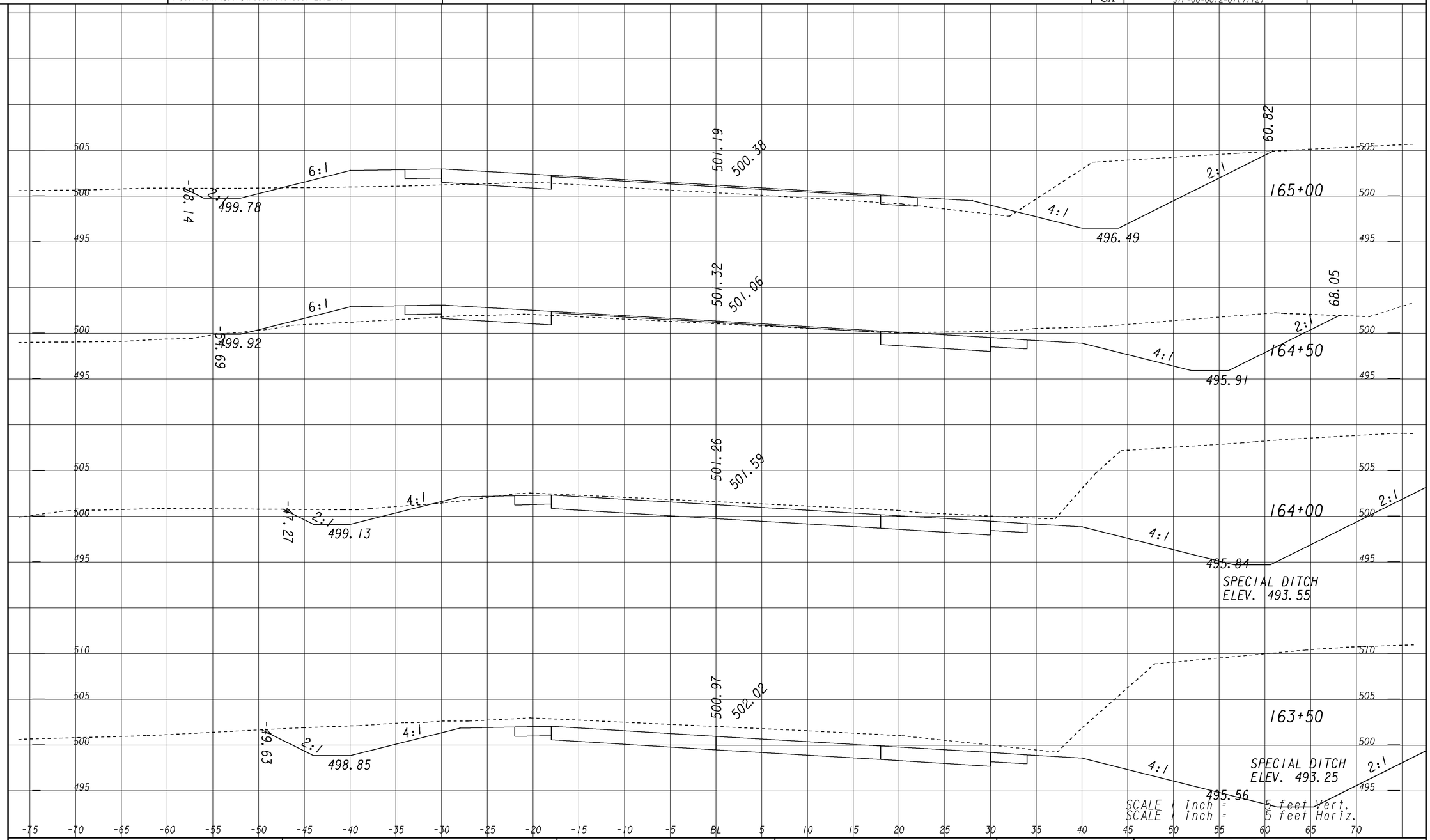
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING No. 23-9

Fri Feb 07 09:39:50 2014 sk1dd	Fri Feb 07 09:39:50 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

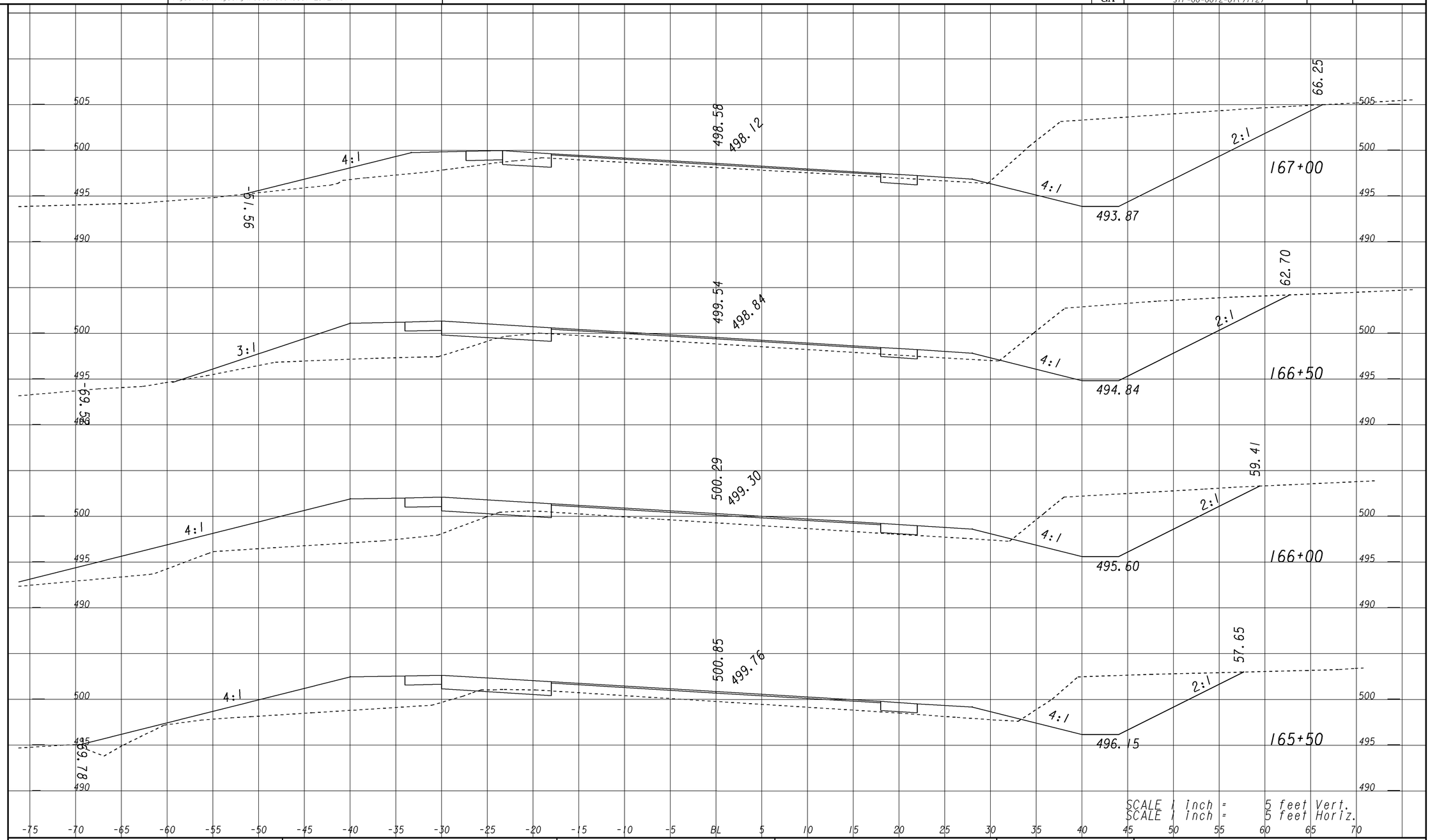
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING NO.
23-10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

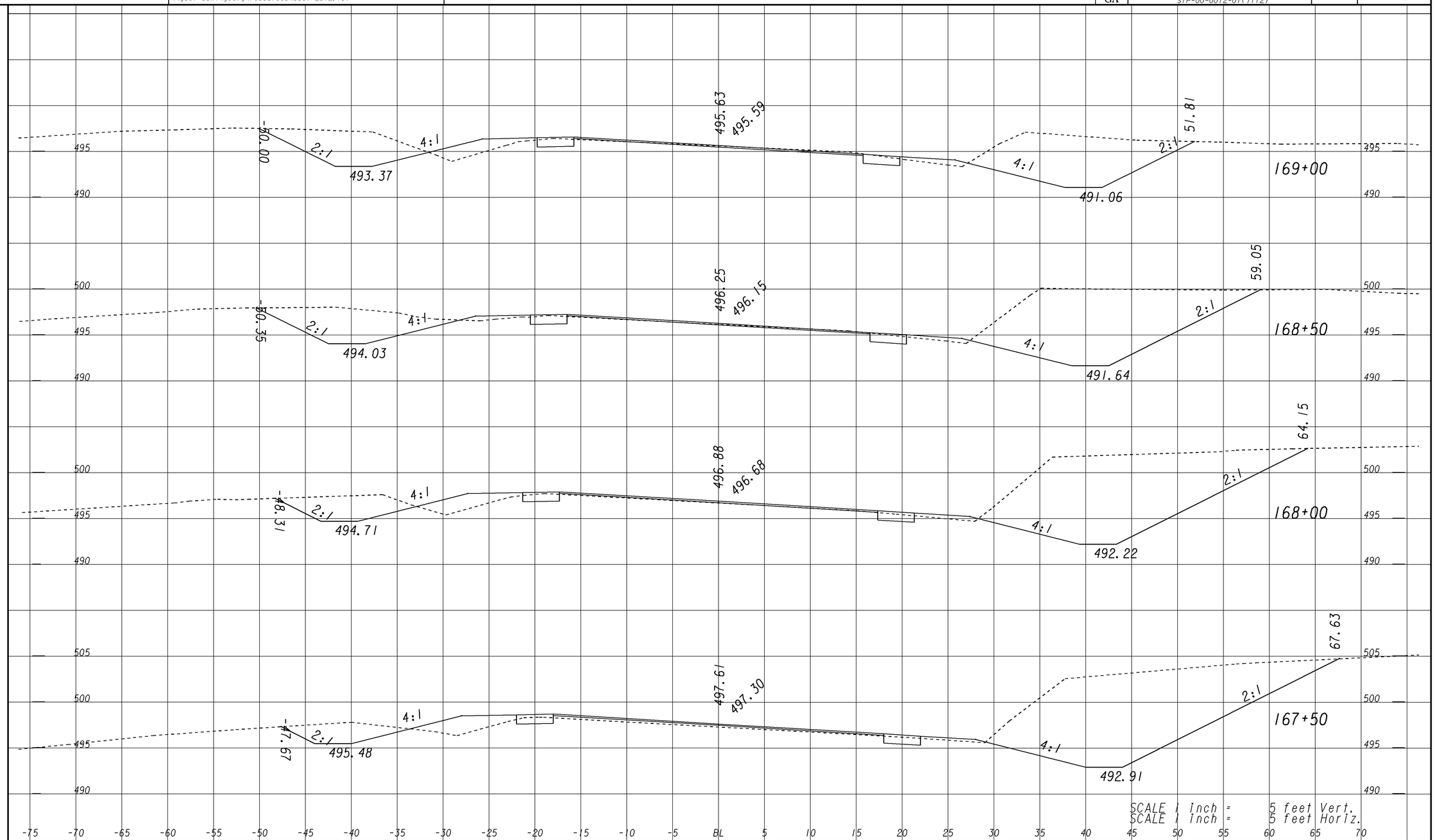
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING No. 23-11

Fri Feb 07 09:39:43 2014 skldd	Fri Feb 07 09:39:43 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: DISTRICT SIX ROAD DESIGN

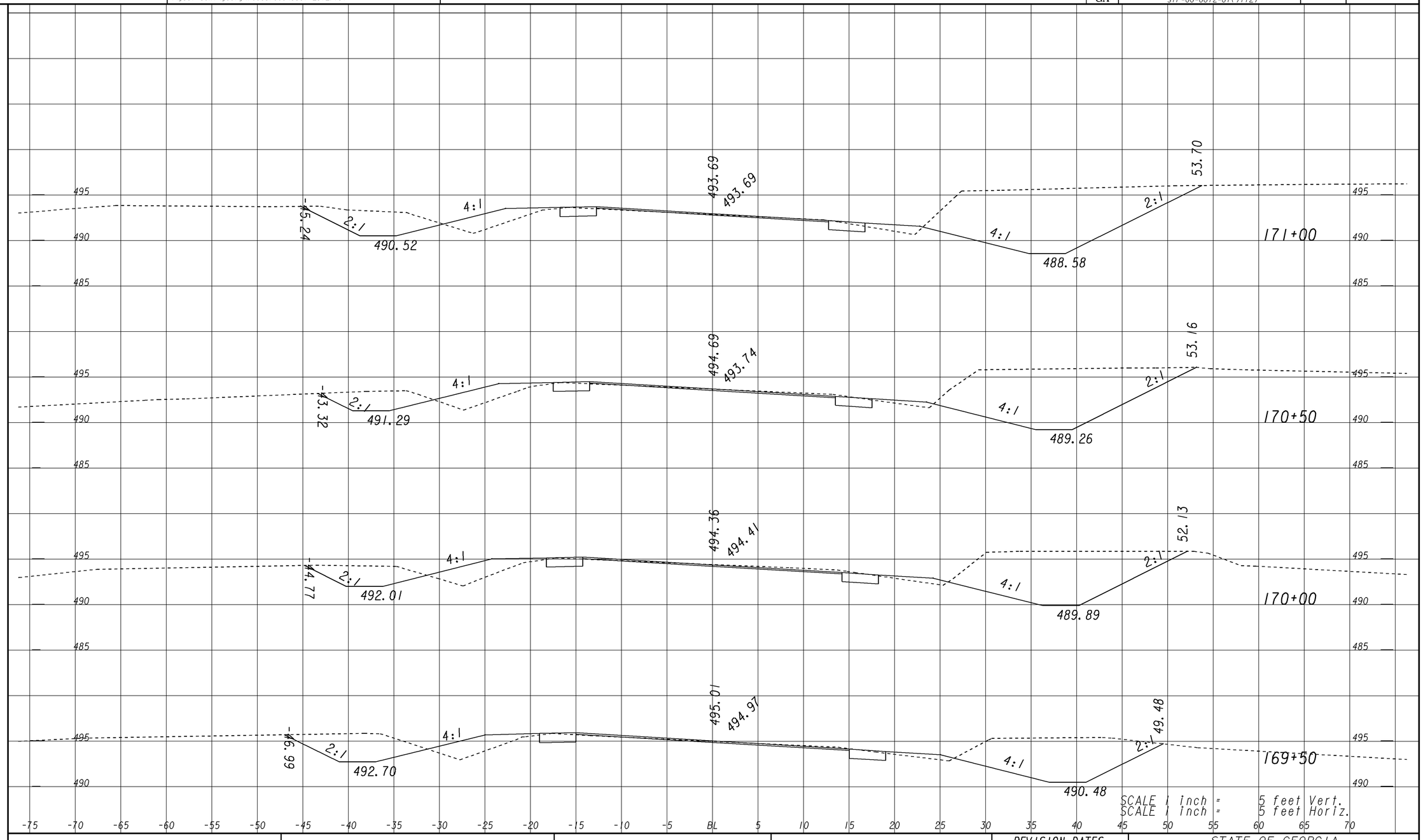
EARTHWORK CROSS SECTIONS

SR20

DRAWING NO. 23-12

SUXSEW

Fri Feb 07 09:39:40 2014 sk1dd	Fri Feb 07 09:39:40 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

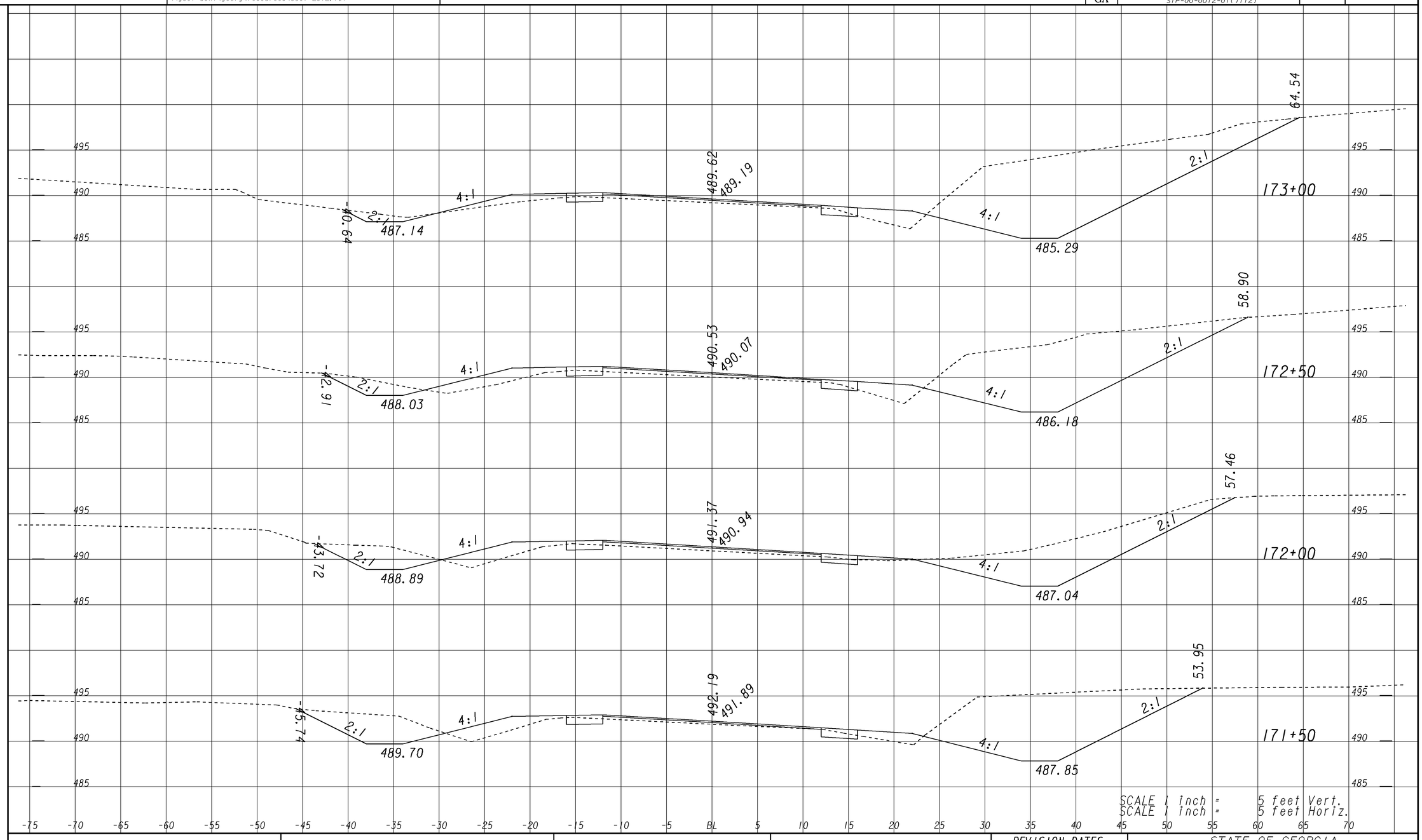
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING No.
23-13

Fri Feb 07 09:41:07 2014 skldd	Fri Feb 07 09:41:07 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

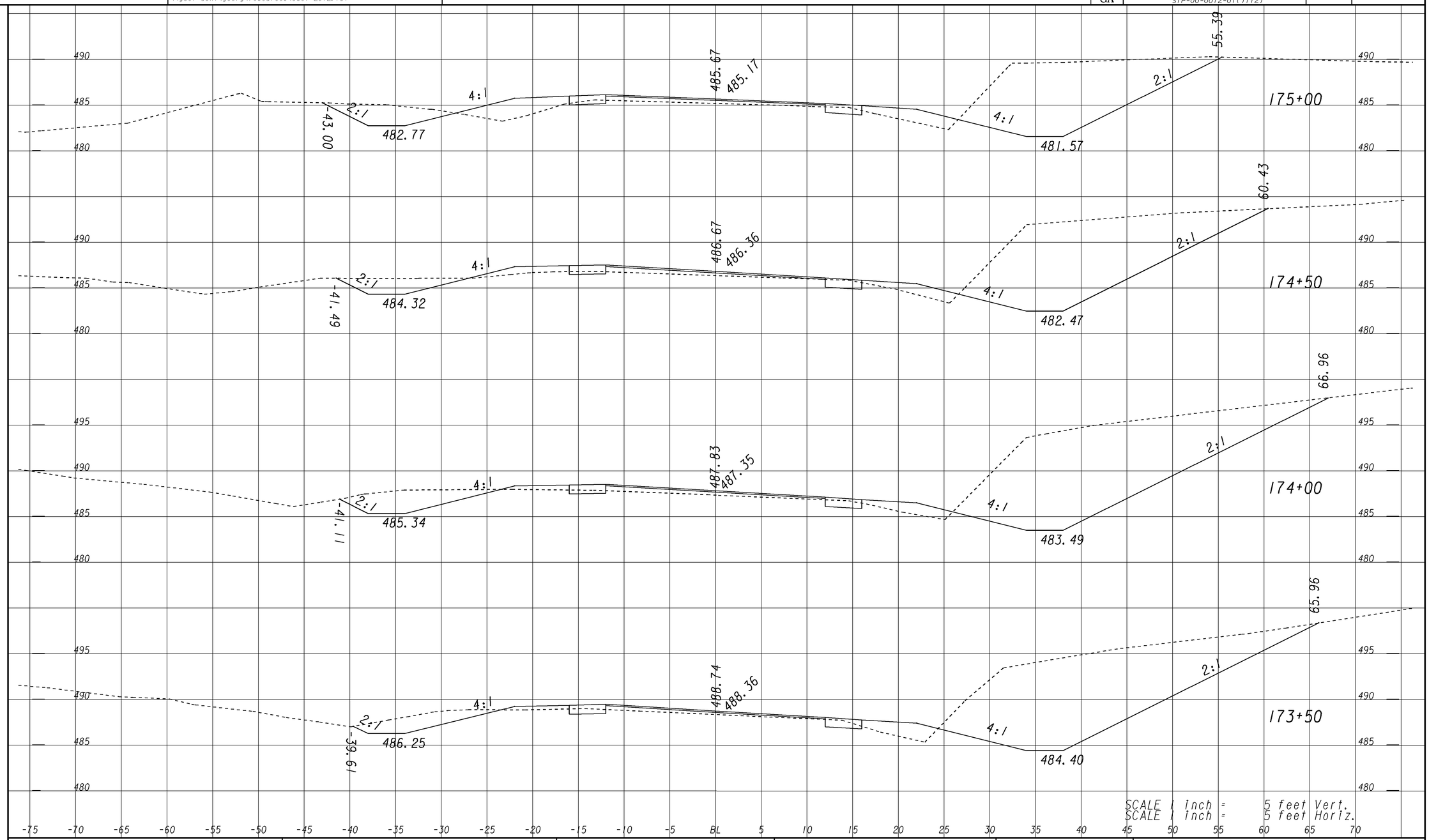
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING No. 23-14

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

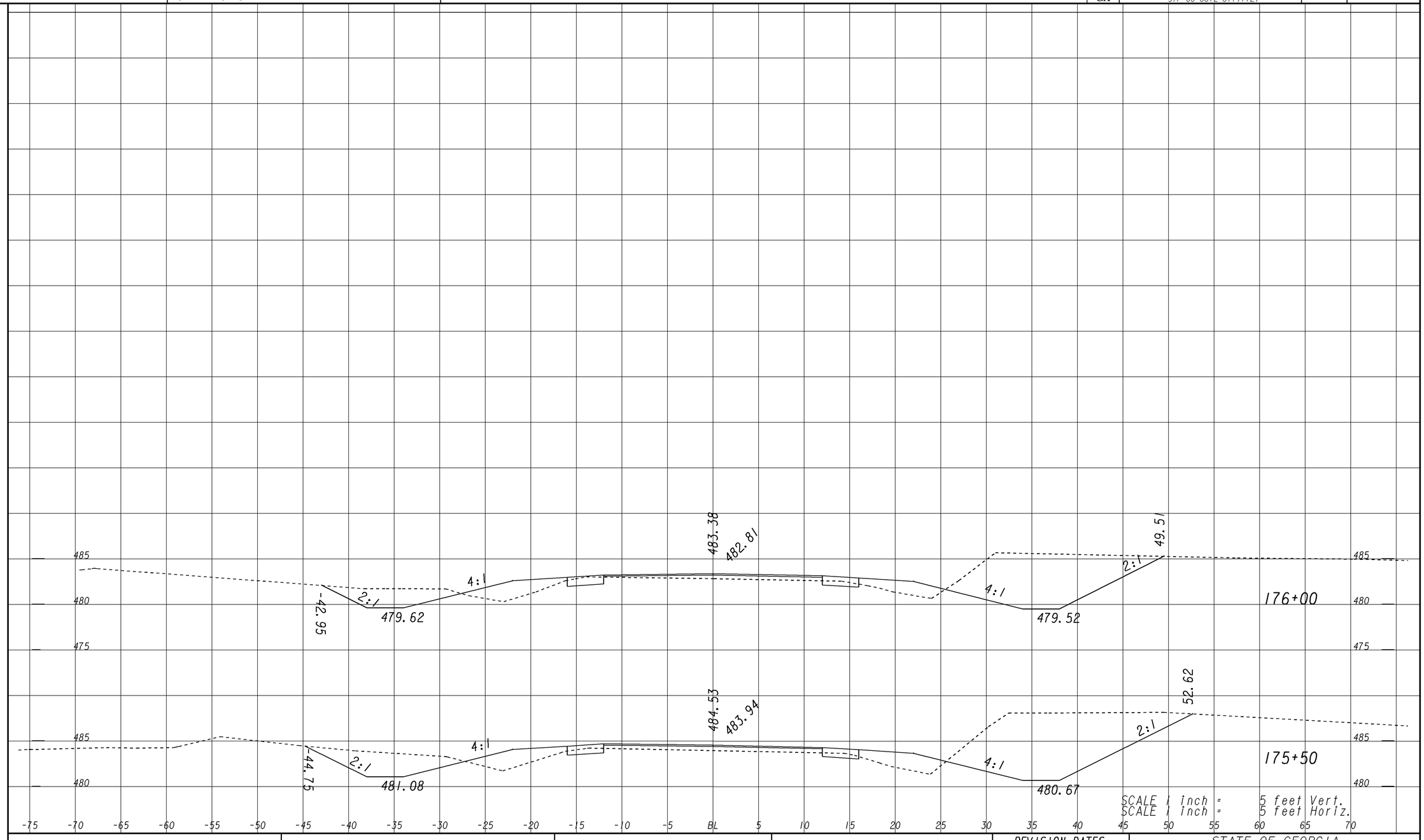
EARTHWORK CROSS SECTIONS

SR20

DRAWING NO.
23-15

SUXSEW

Fri Feb 07 09:41:02 2014 skldd	Fri Feb 07 09:41:02 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650SR20XsecNew.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

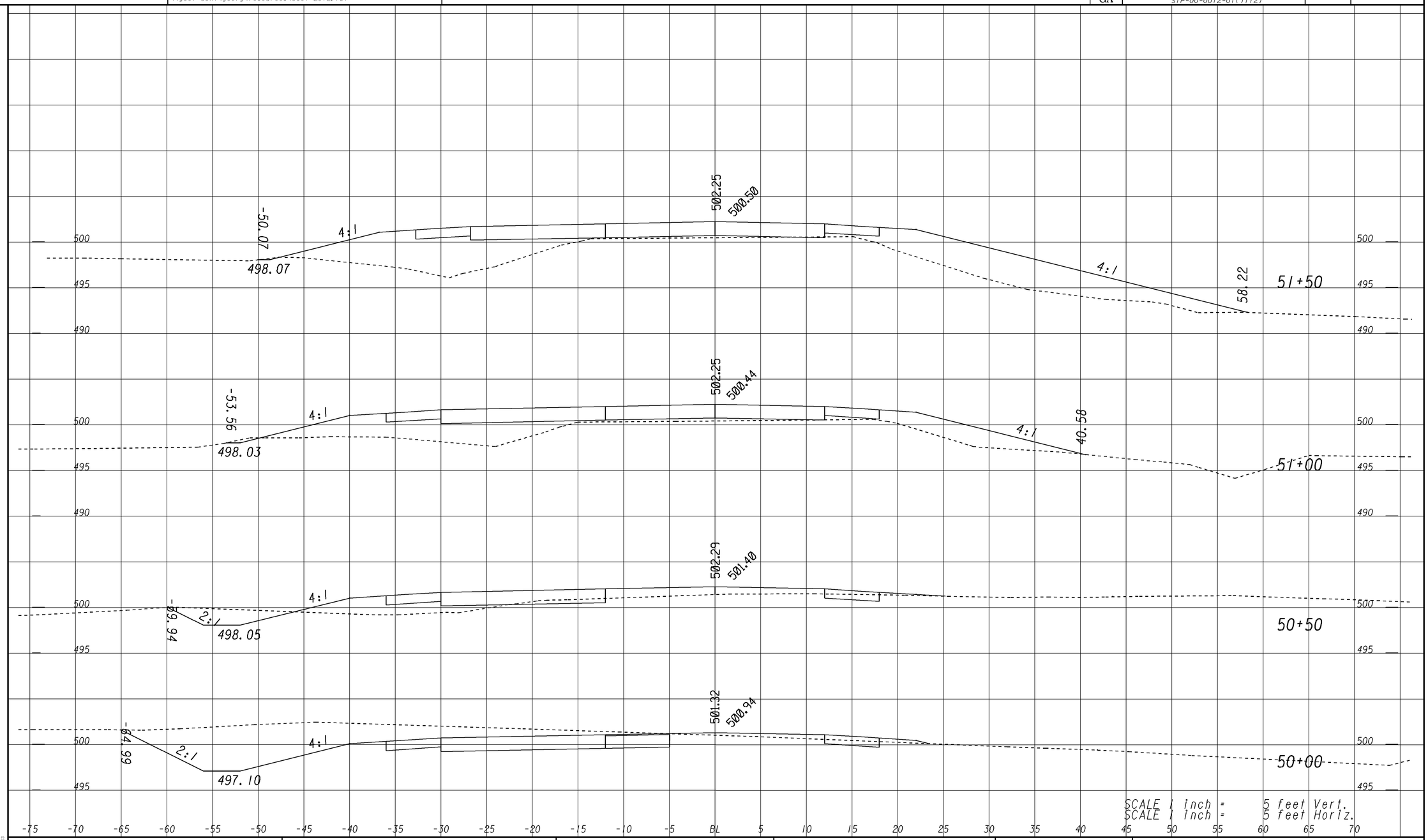
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR20

DRAWING NO.
23-16

Fri Feb 07 09:44:44 2014 skldd	Fri Feb 07 09:44:44 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

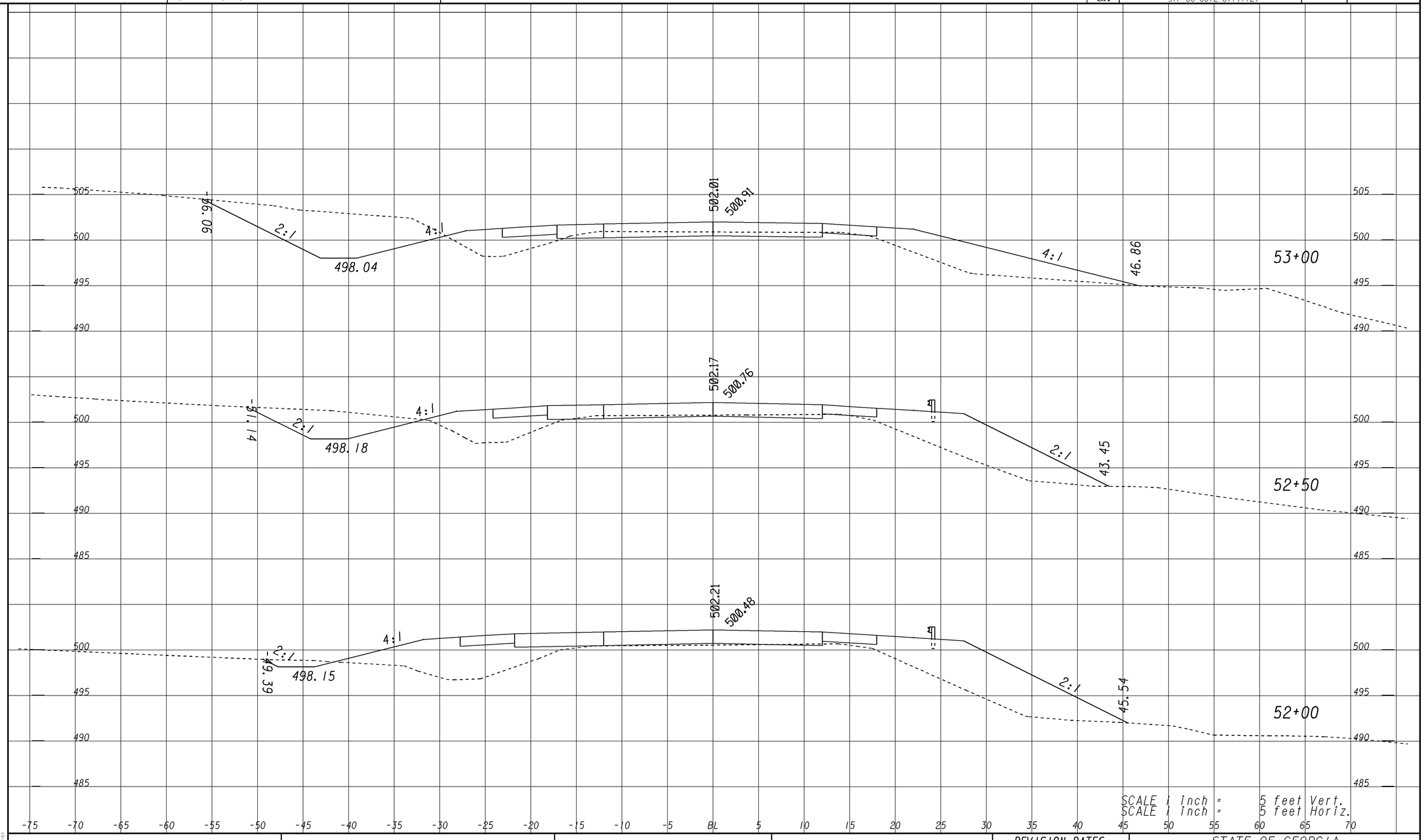
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR108

DRAWING No. 23-17

Fri Feb 07 09:44:42 2014 sk1dd	Fri Feb 07 09:44:42 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

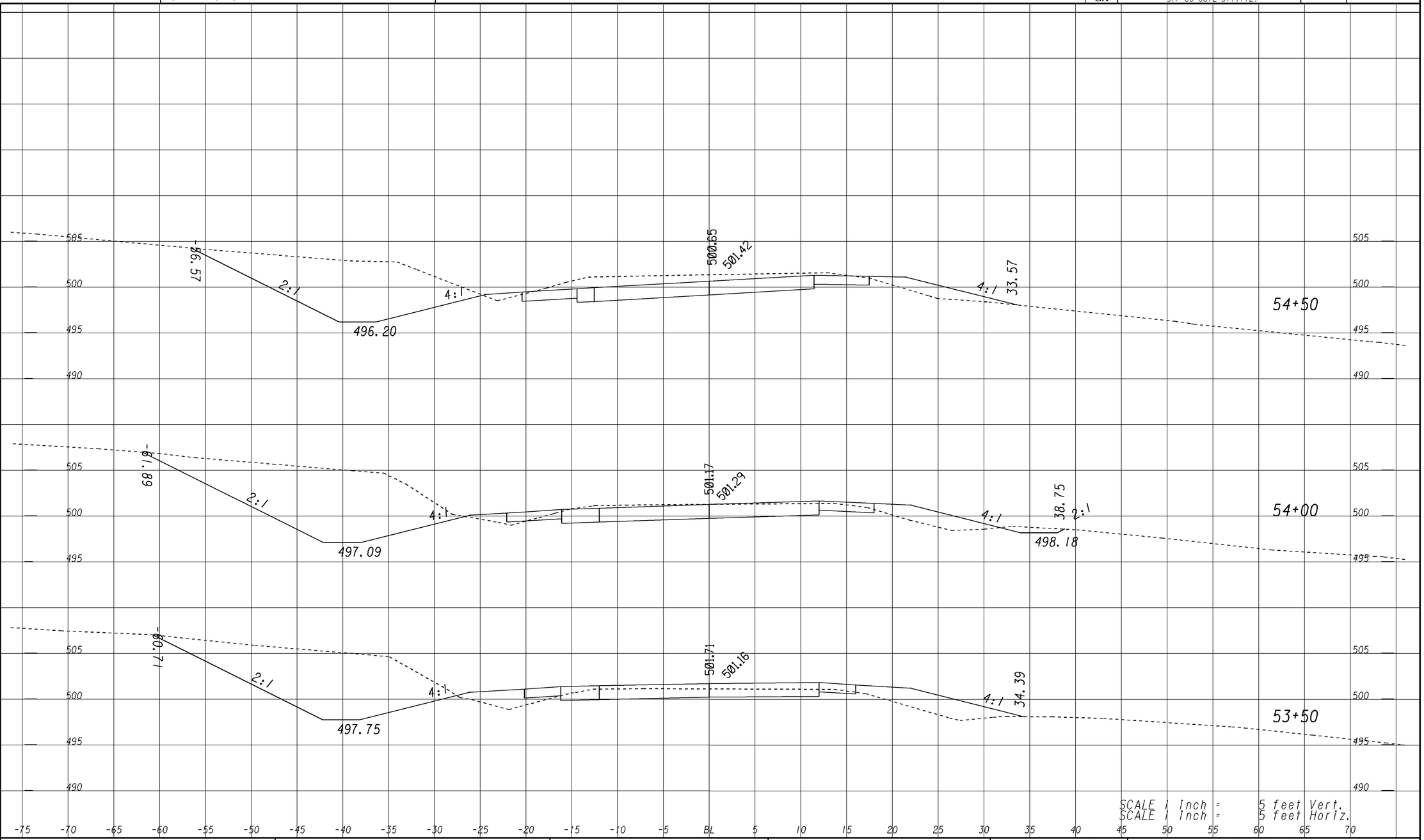
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR108

DRAWING No.
23-18

Fri Feb 07 09:44:40 2014 sk1dd	Fri Feb 07 09:44:40 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

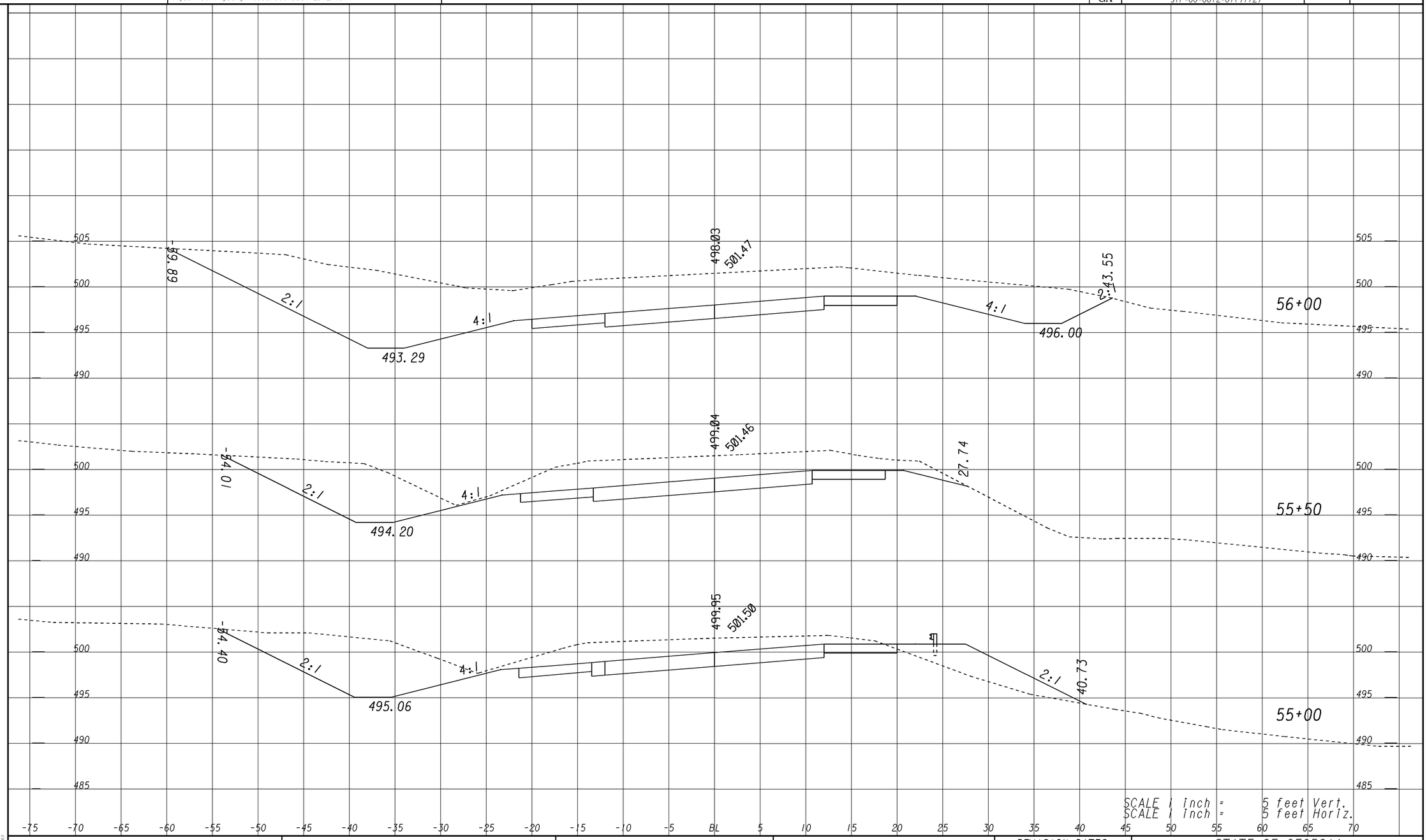
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR108

DRAWING NO. 23-19

Fri Feb 07 09:44:38 2014 skldd	Fri Feb 07 09:44:38 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



SUNSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

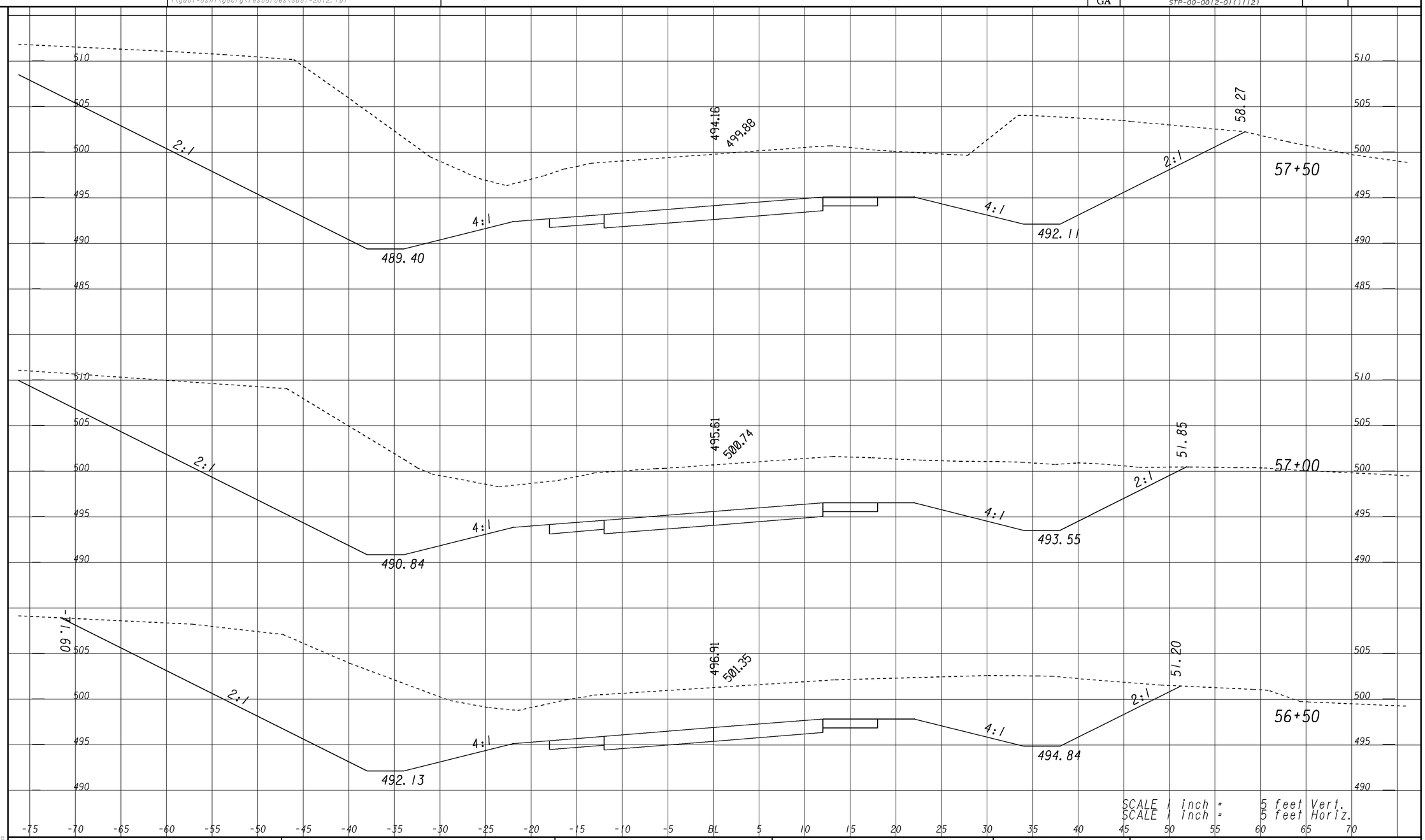
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR108

DRAWING No. 23-20

Fri Feb 07 09:44:36 2014 Fri Feb 07 09:44:36 2014 sk1dd	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

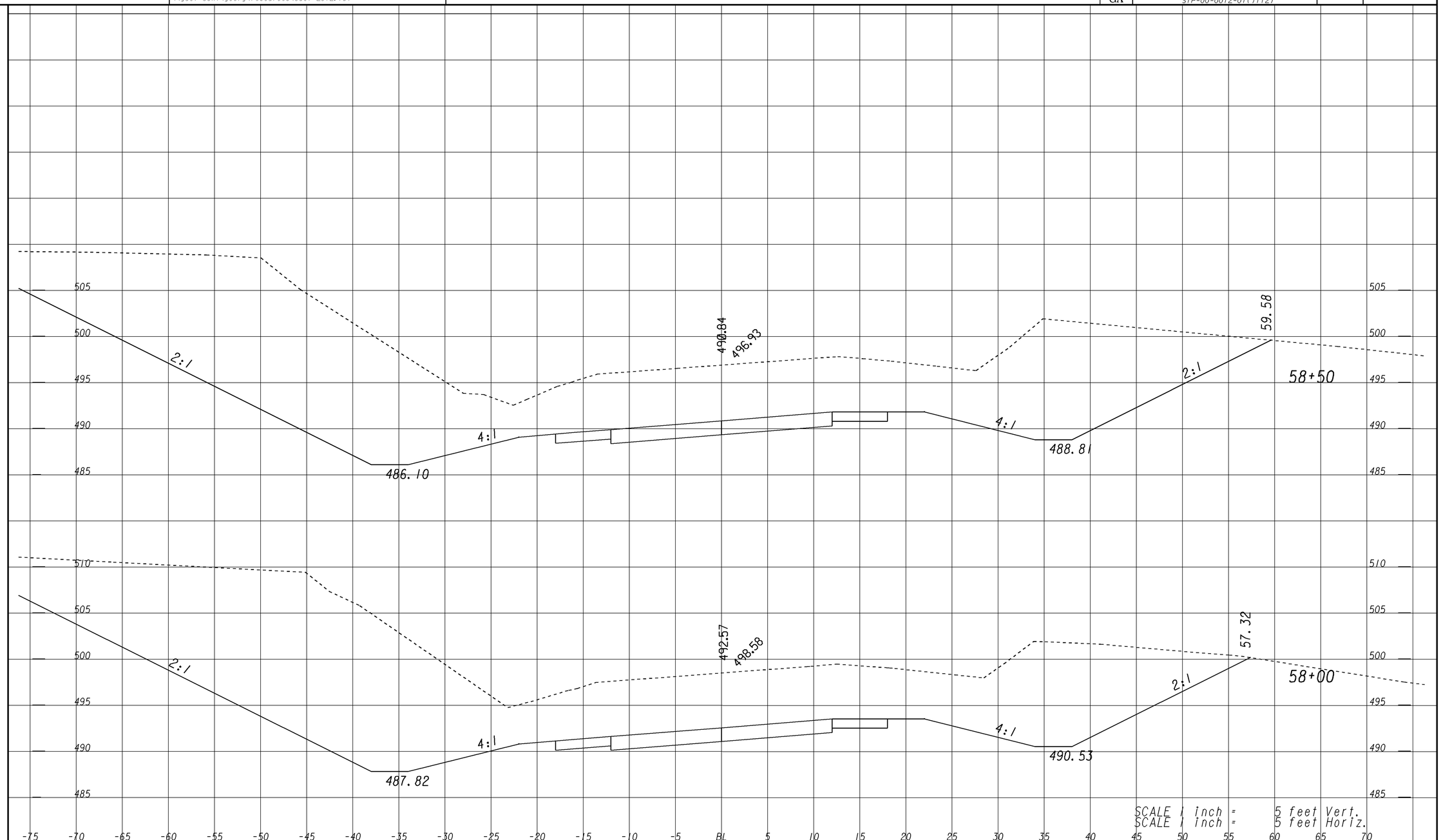
EARTHWORK CROSS SECTIONS

SR108

DRAWING NO. 23-21

SUXSEW

Fri Feb 07 09:44:34 2014 sk1dd	Fri Feb 07 09:44:34 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 5 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

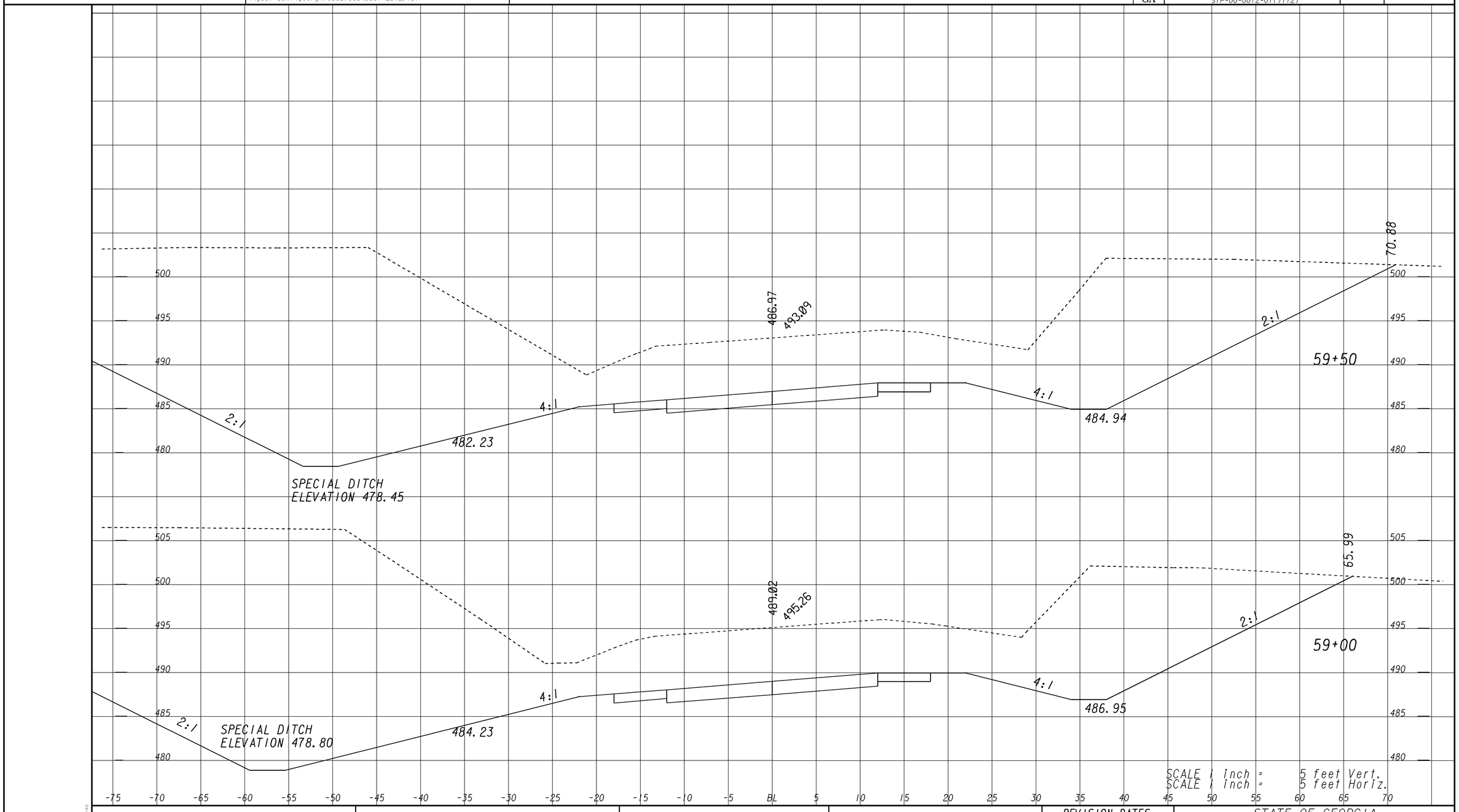
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR108

DRAWING NO. 23-22

Fri Feb 07 09:44:32 2014 skldd	Fri Feb 07 09:44:32 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

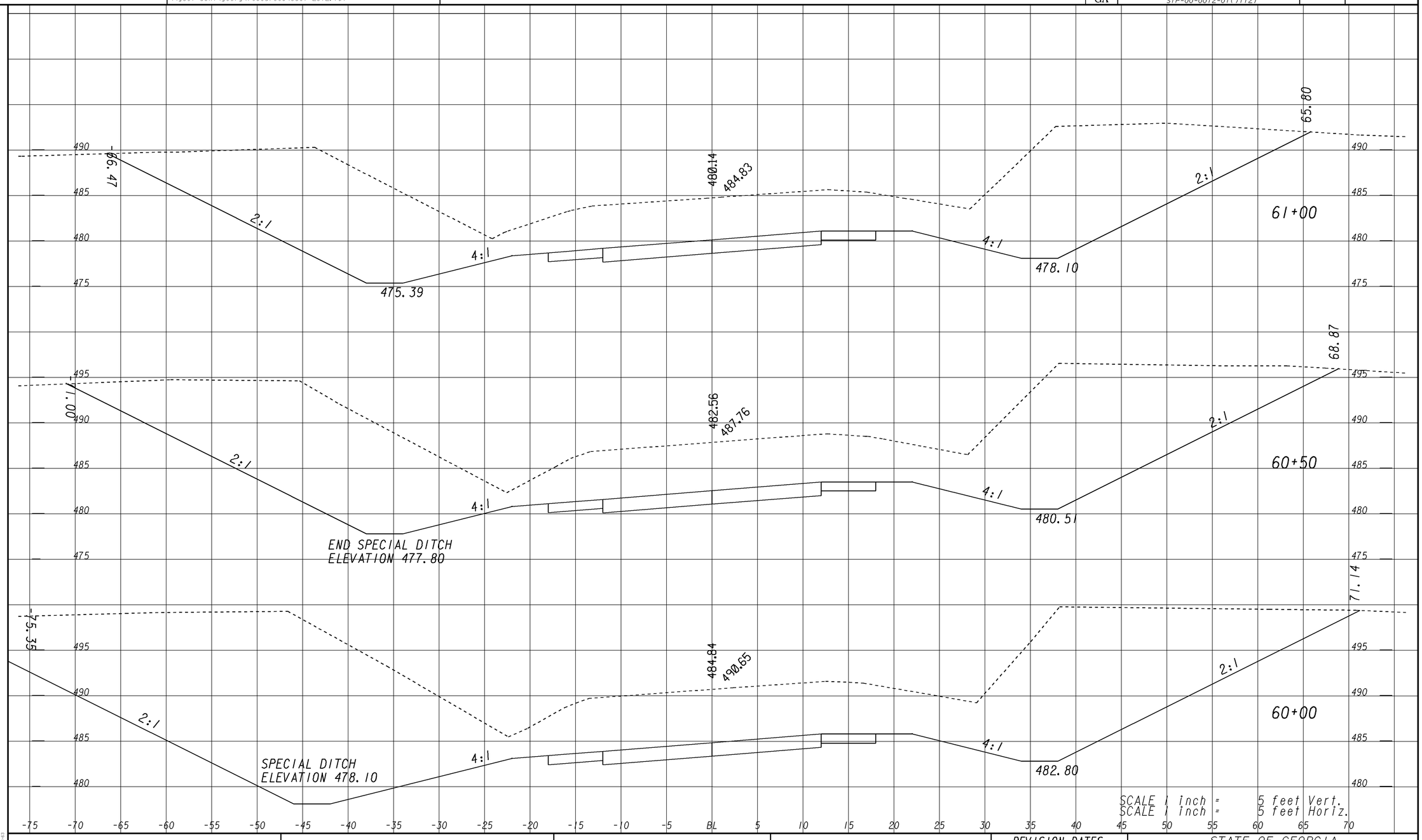
EARTHWORK CROSS SECTIONS

SR108

DRAWING No: 23-23

SUXSEW

Fri Feb 07 09:44:30 2014 sk1dd	Fri Feb 07 09:44:30 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

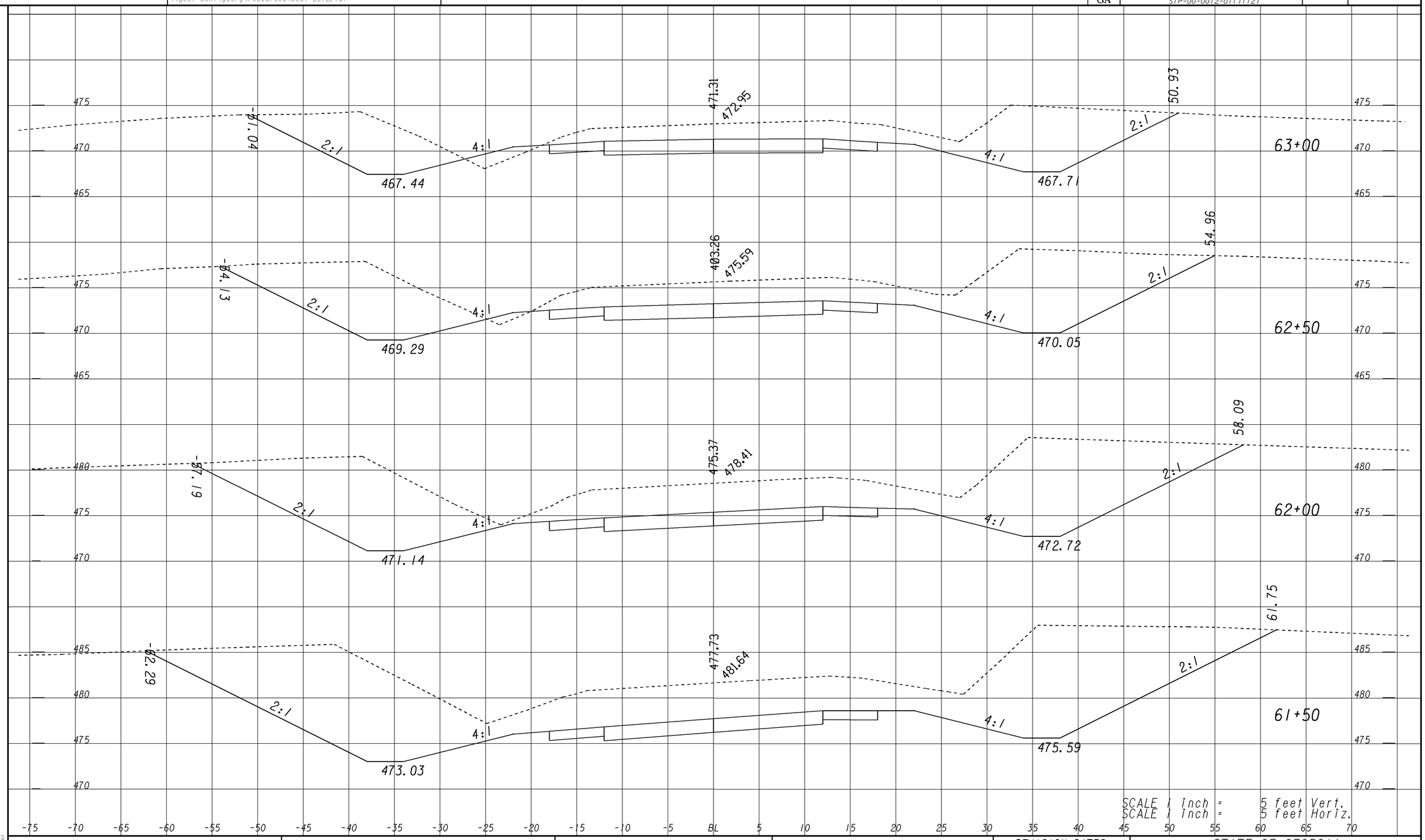
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR108

DRAWING NO. 23-24

SUXSEW



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

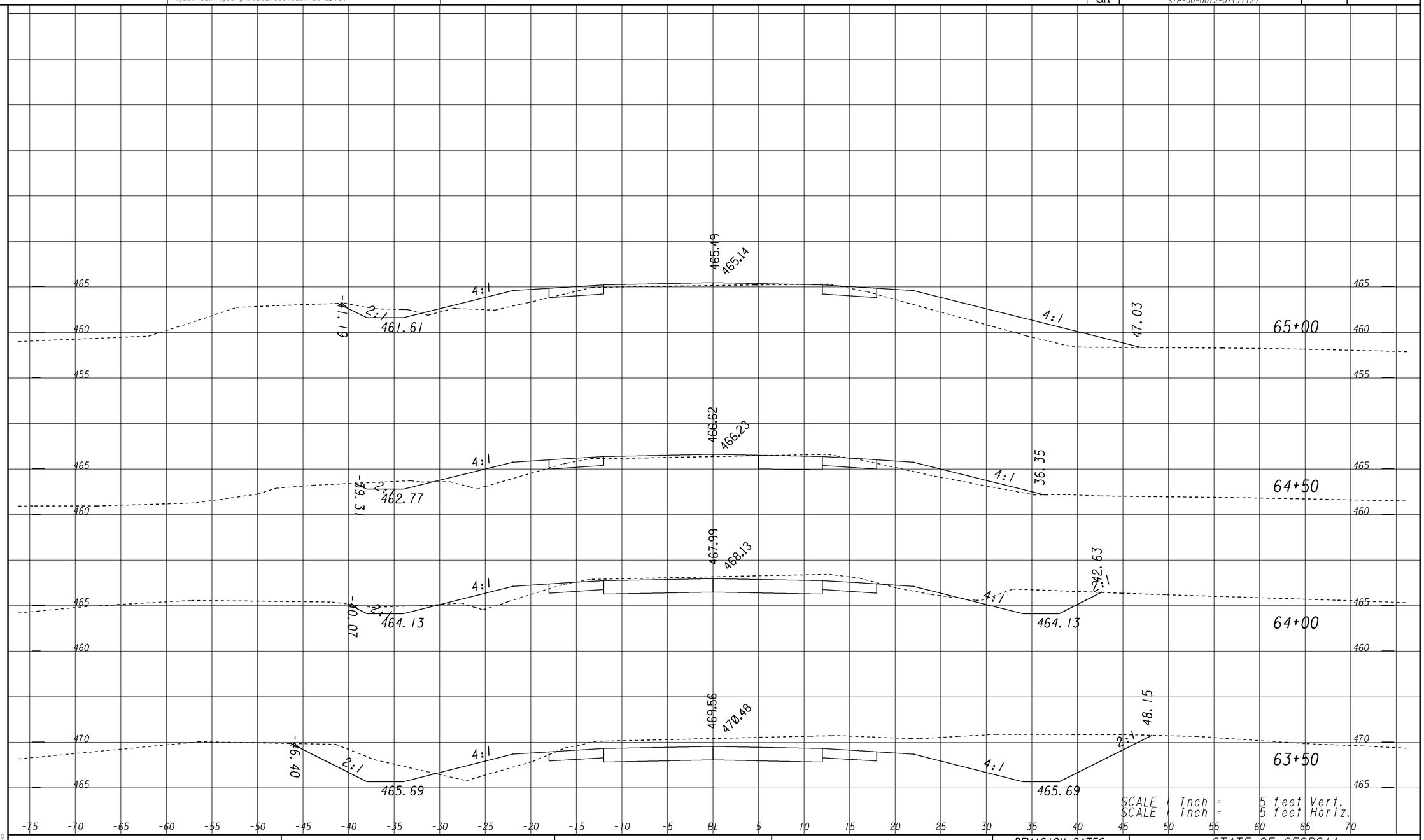
EARTHWORK CROSS SECTIONS

SR108

DRAWING No. 23-25

SUXSEW

Fri Feb 07 09:44:26 2014 skldd	Fri Feb 07 09:44:26 2014	\\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSSR108.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01()112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

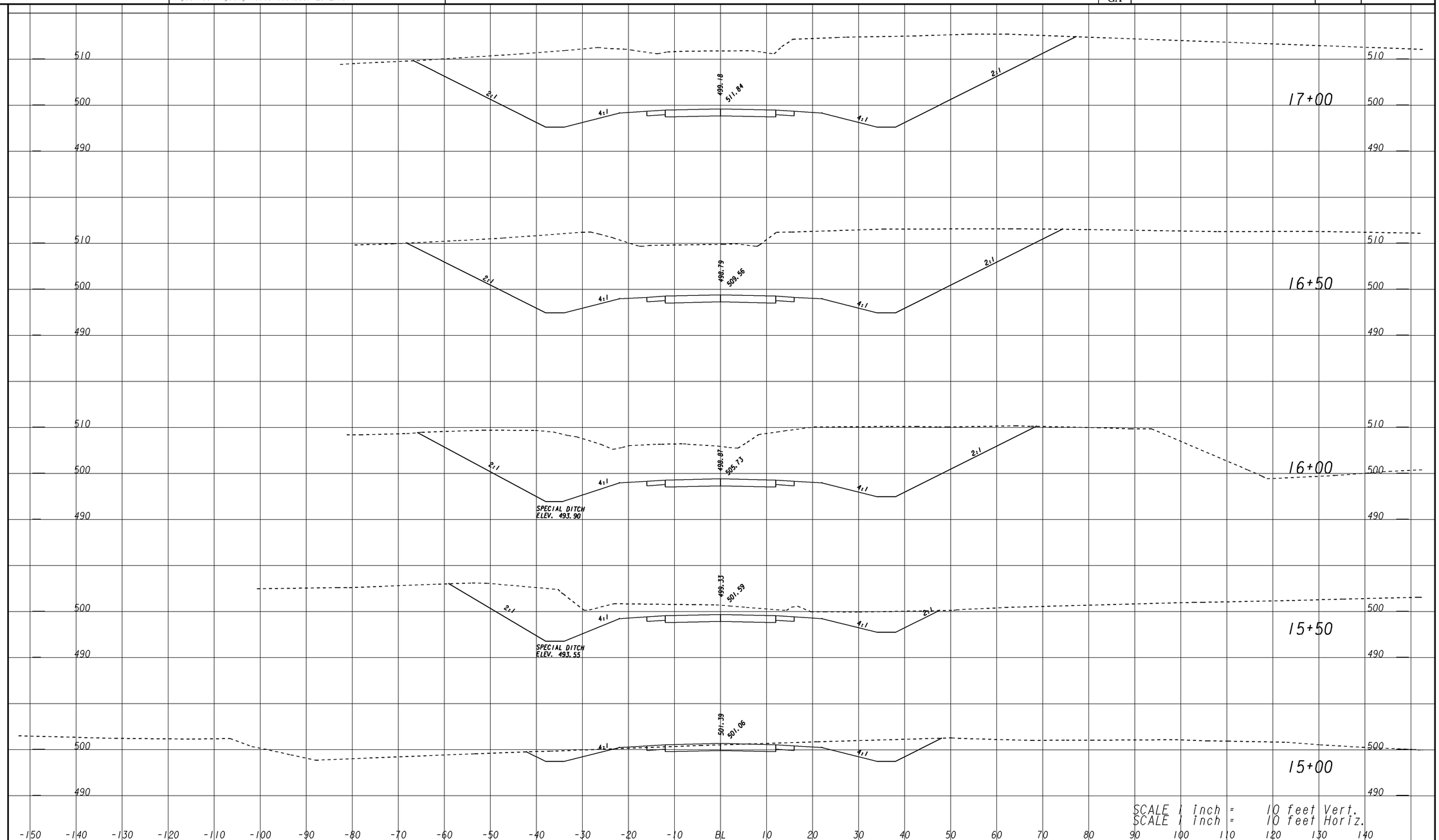
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

SR108

DRAWING No.
23-26

Fri Feb 07 09:45:14 2014 skldd	Fri Feb 07 09:45:14 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650X-SECUPPERSWEETWATERNEW.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

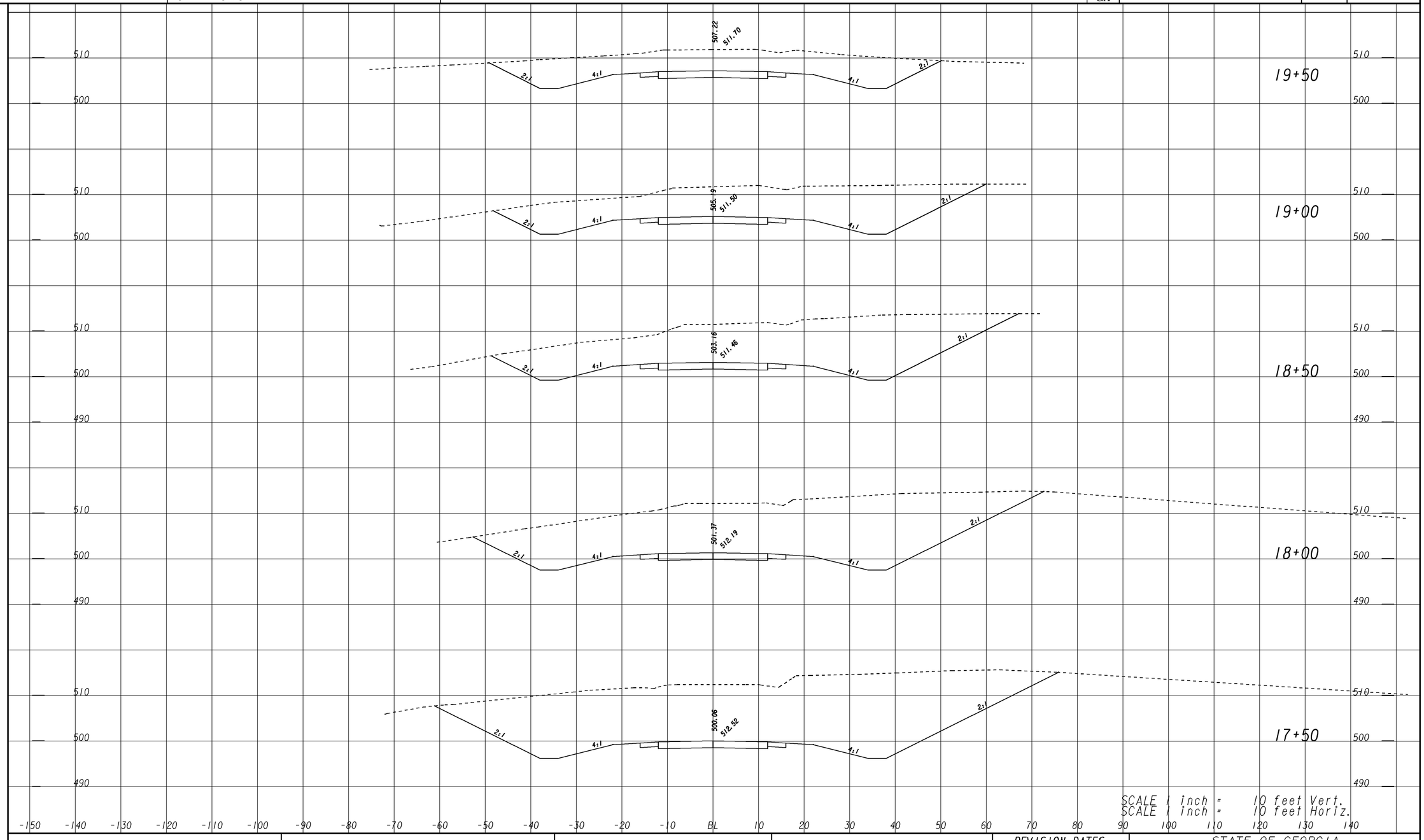
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

UPPER SWEETWATER

DRAWING No. 23-27

SUXSEW



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

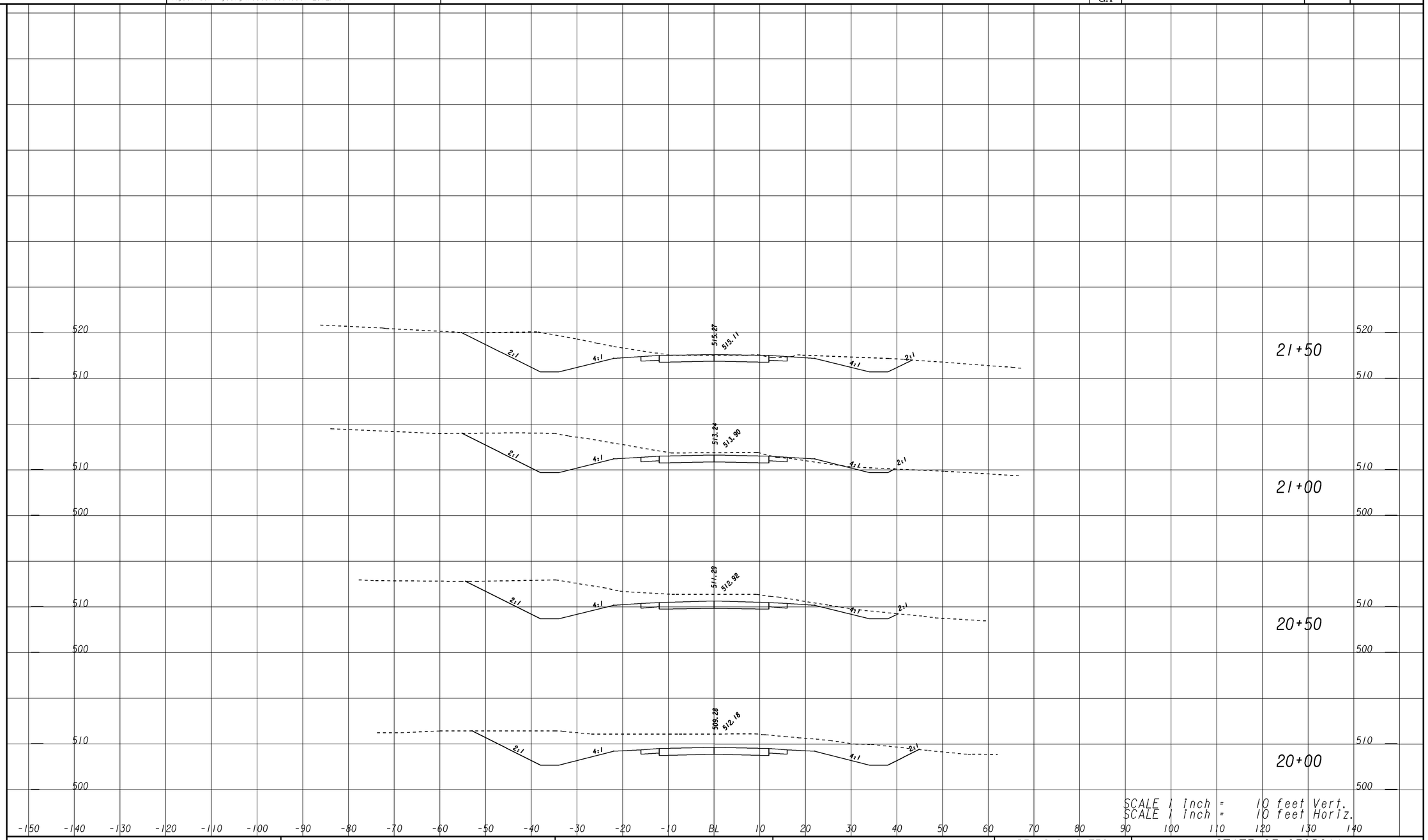
EARTHWORK CROSS SECTIONS

UPPER SWEETWATER

DRAWING NO. 23-28

SUXSEW

Fri Feb 07 09:45:10 2014 sk1dd	Fri Feb 07 09:45:10 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650X-SECUPPERSWEETWATERNEW.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

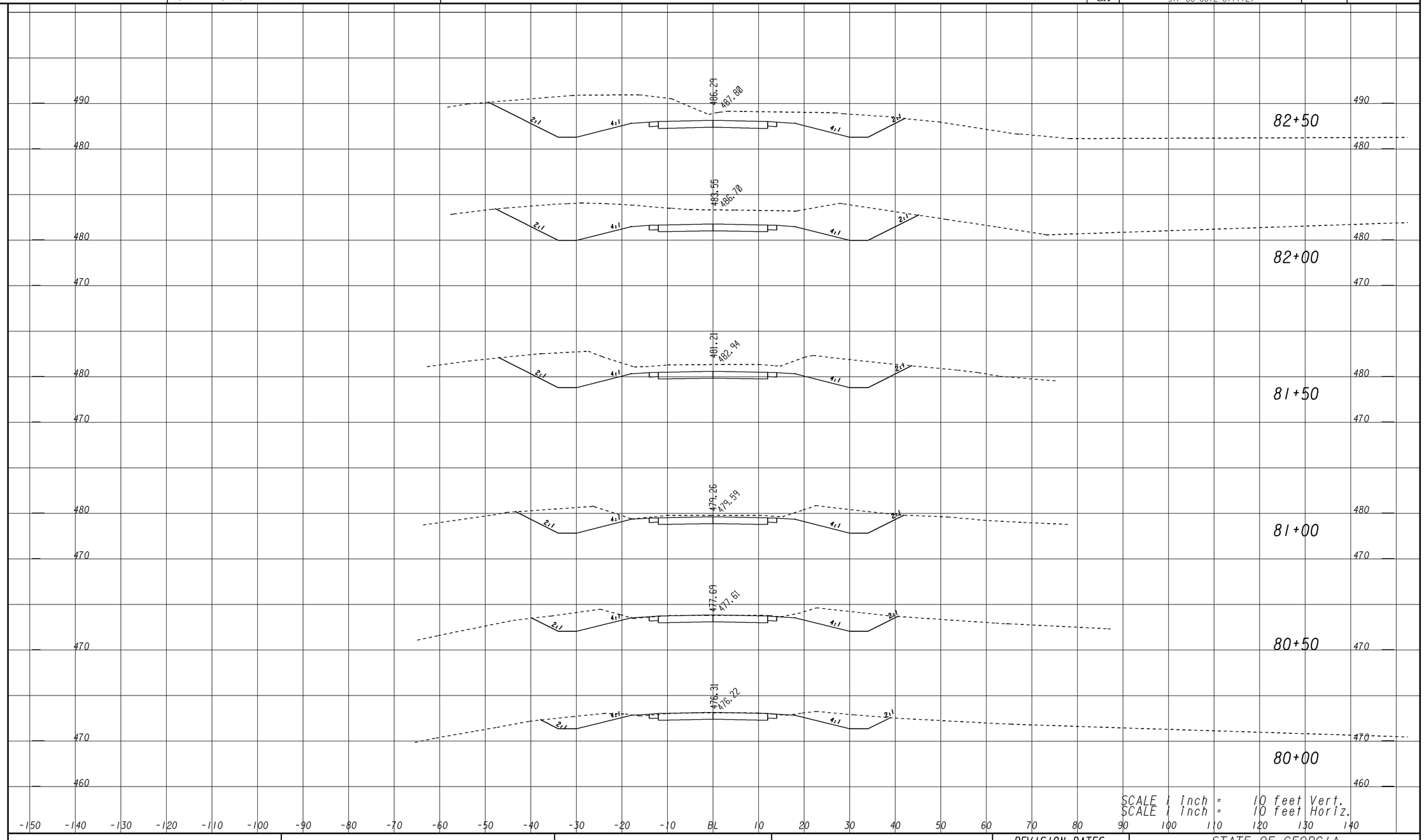
EARTHWORK CROSS SECTIONS

UPPER SWEETWATER

DRAWING NO. 23-29

SUXSEW

Fri Feb 07 09:43:16 2014 skldd	Fri Feb 07 09:43:16 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\DGN\662650\662650XSWHITERELOC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01(112)		



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

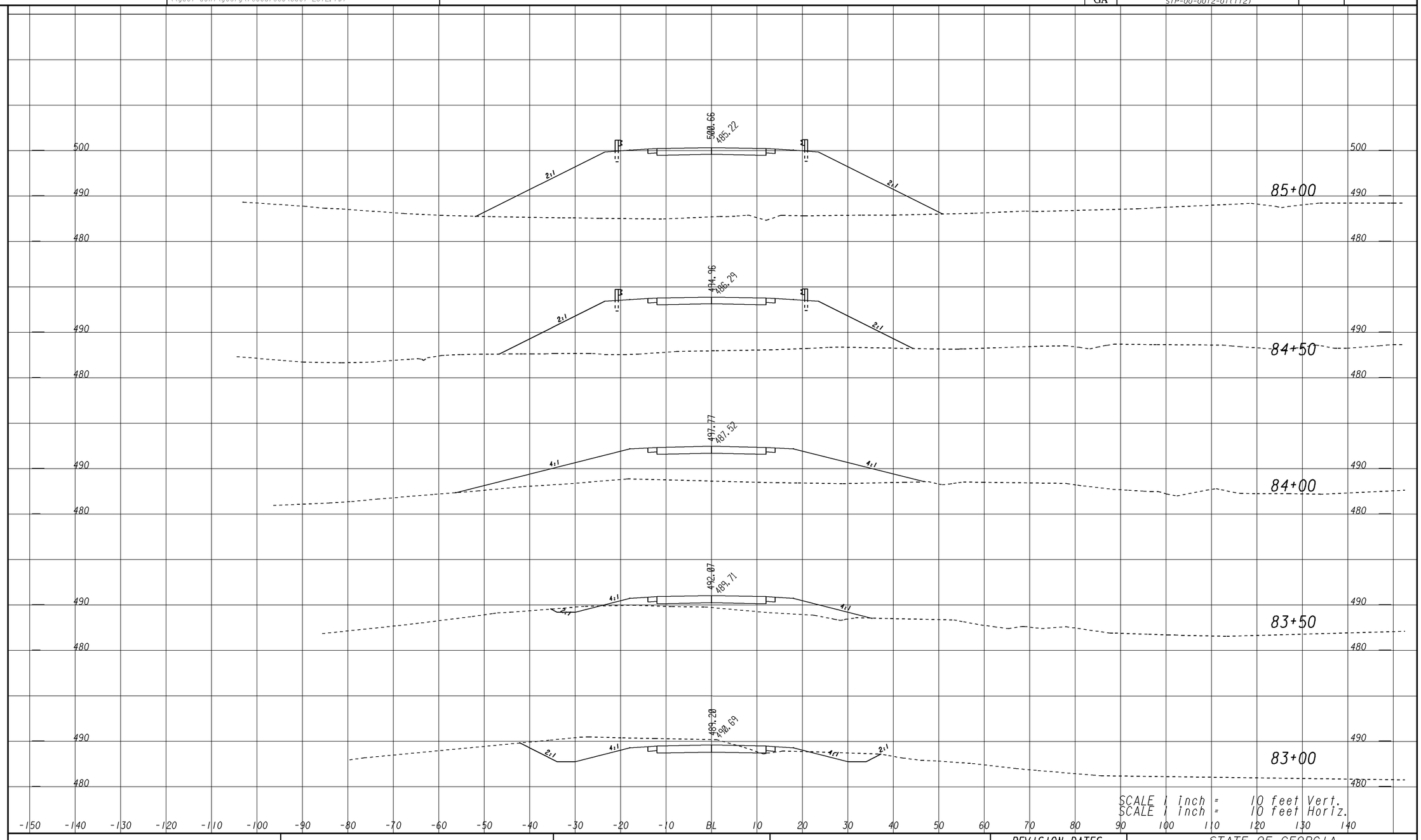
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

WHITE RELOCATION

DRAWING NO. 23-30

Fri Feb 07 09:43:14 2014 skldd	Fri Feb 07 09:43:14 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\DGN\662650\662650XSWHITERELOC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01(112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

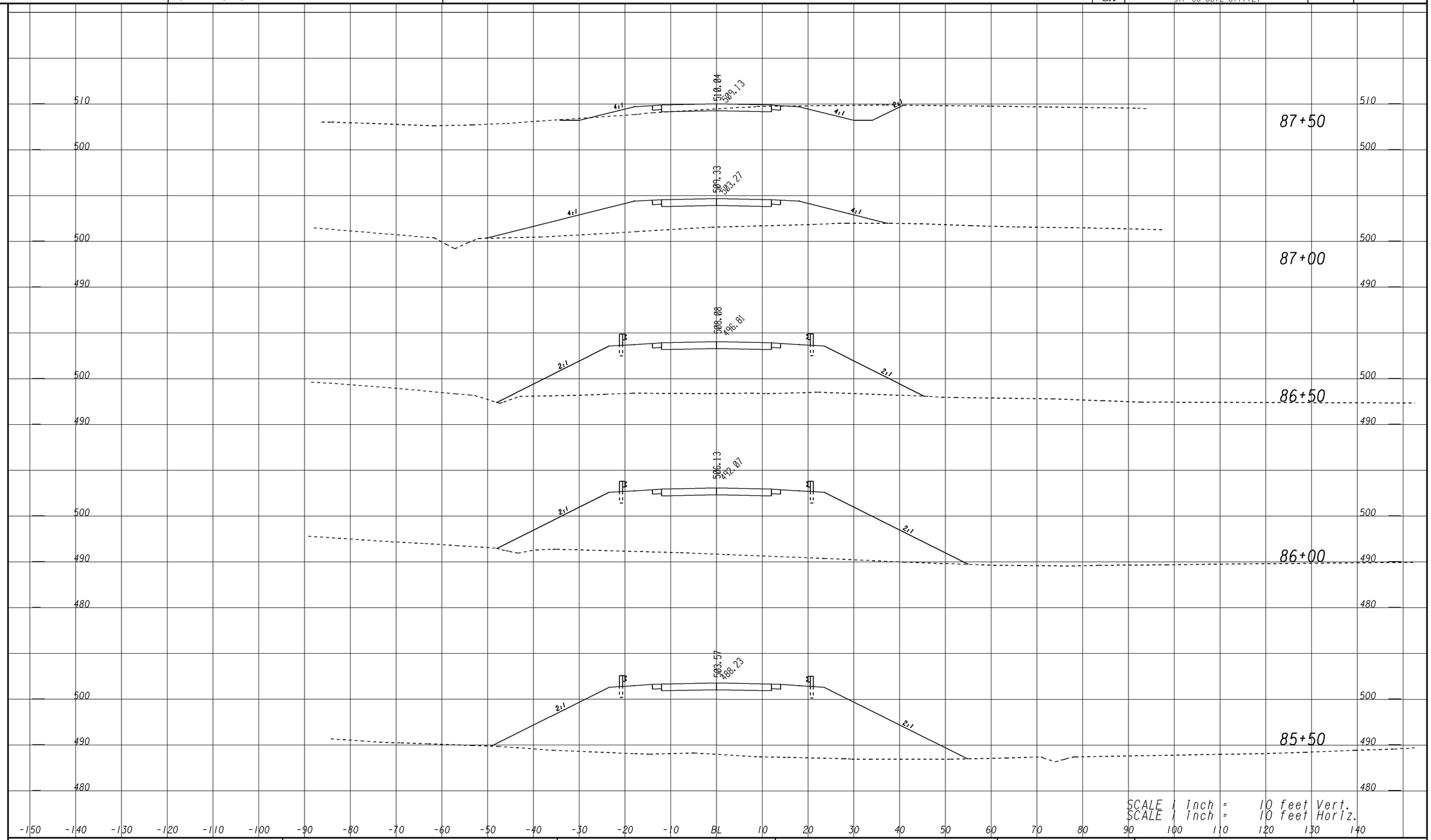
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

WHITE RELOCATION

DRAWING No. 23-31

Fri Feb 07 09:43:12 2014 skldd	Fri Feb 07 09:43:12 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\DGN\662650\662650XSWHITERELOC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01(112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

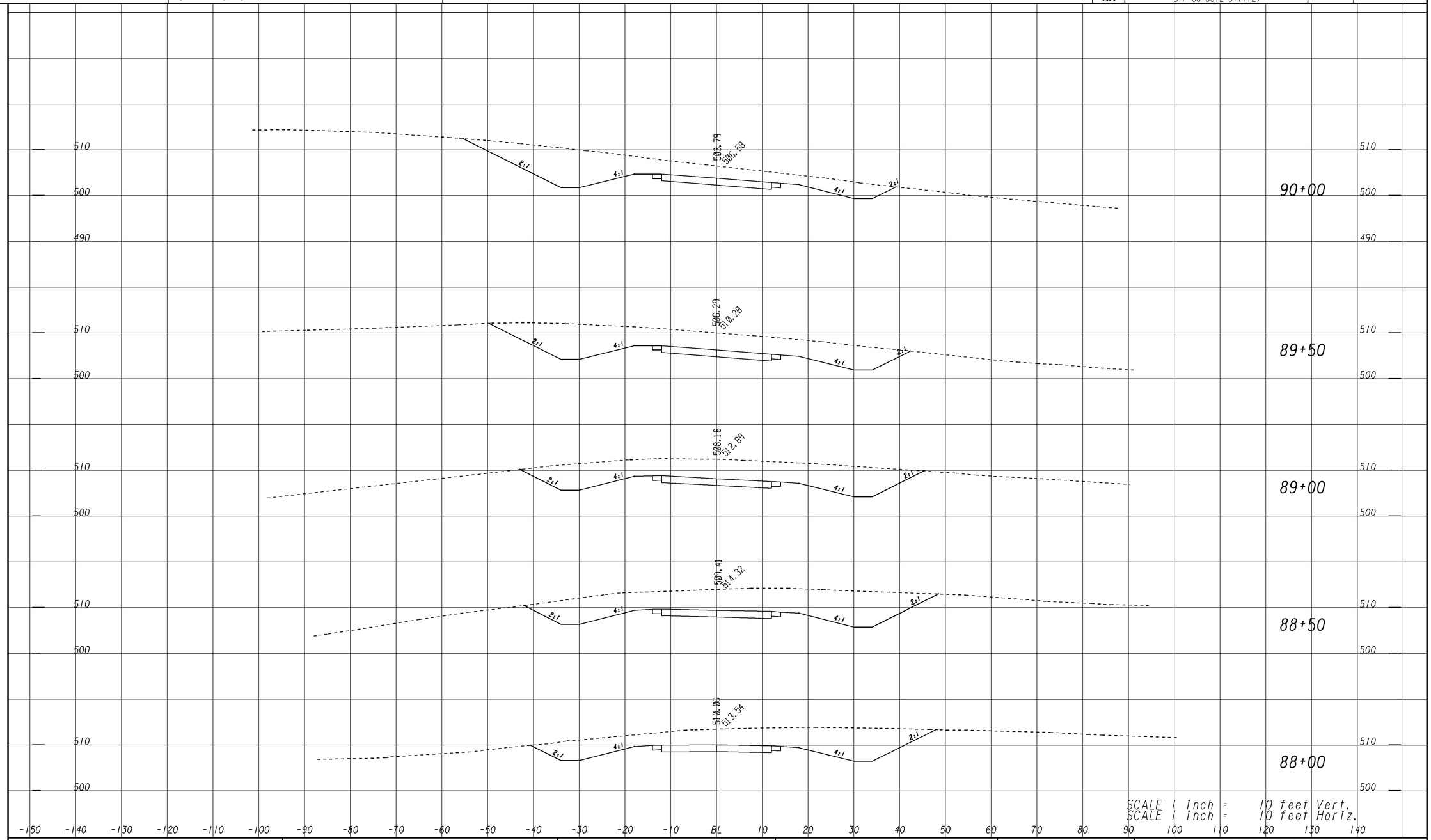
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

WHITE RELOCATION

DRAWING NO. 23-32

Fri Feb 07 09:43:10 2014 skldd	Fri Feb 07 09:43:10 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\DGN\662650\662650XSWHITERELOC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01(112)		



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

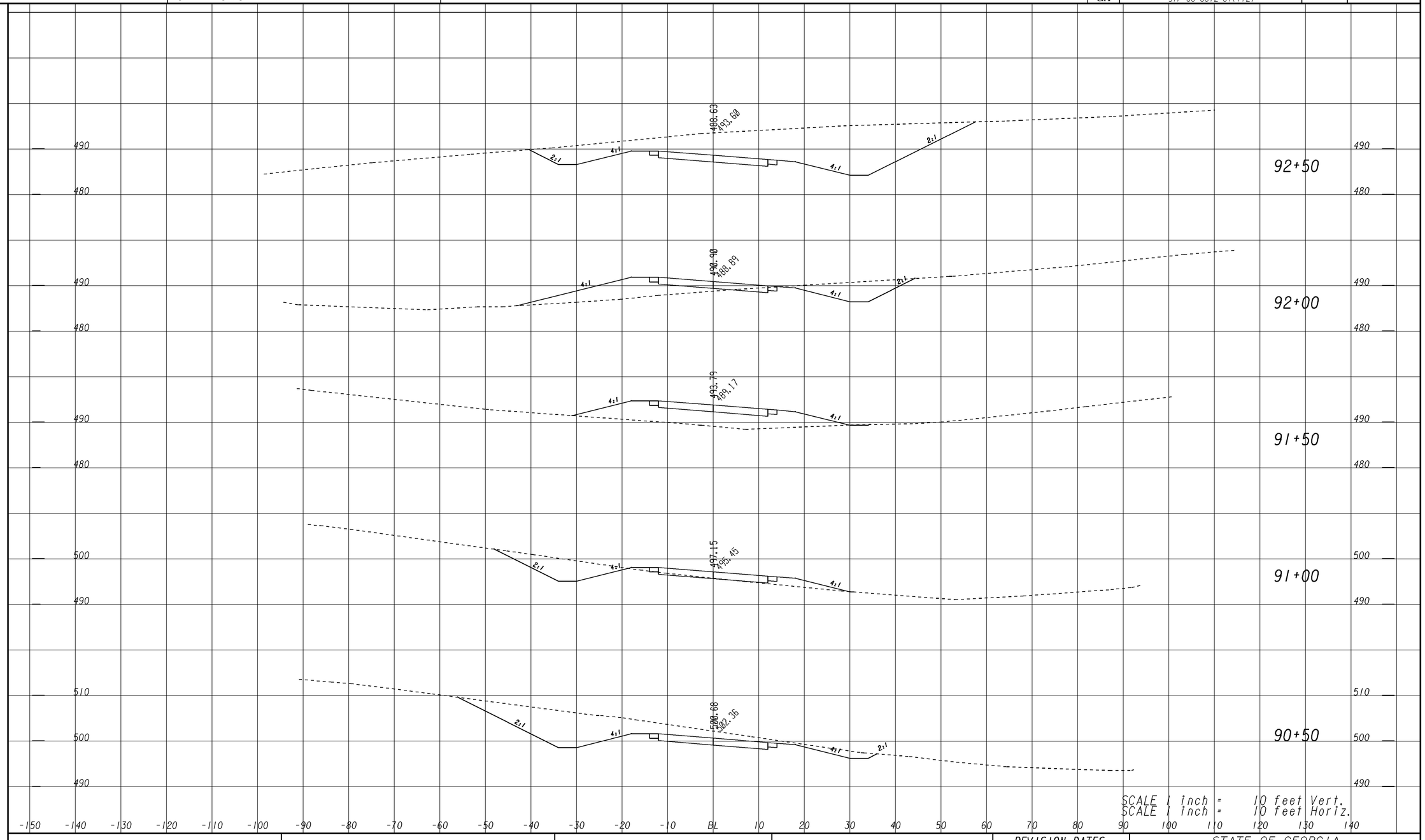
EARTHWORK CROSS SECTIONS

WHITE RELOCATION

DRAWING NO. 23-33

SUXSEW

Fri Feb 07 09:43:07 2014 skldd	Fri Feb 07 09:43:07 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\DGN\662650\662650XSWHITERELOC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01(112)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

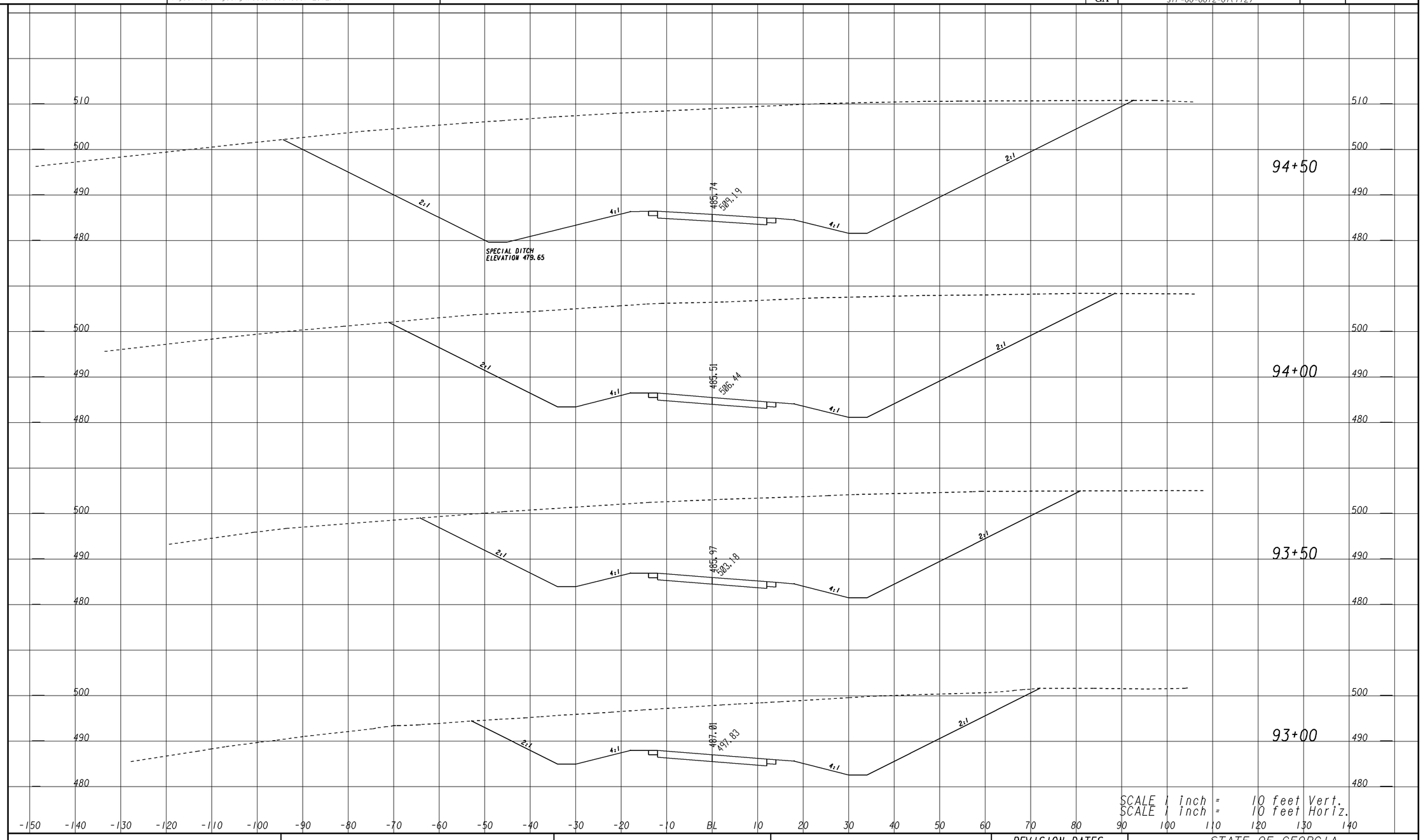
EARTHWORK CROSS SECTIONS

WHITE RELOCATION

DRAWING NO. 23-34

SUXSEW

Fri Feb 07 09:43:05 2014 skldd	Fri Feb 07 09:43:05 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\DGN\662650\662650XSWHITERELOC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP-00-0012-01(112)		



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

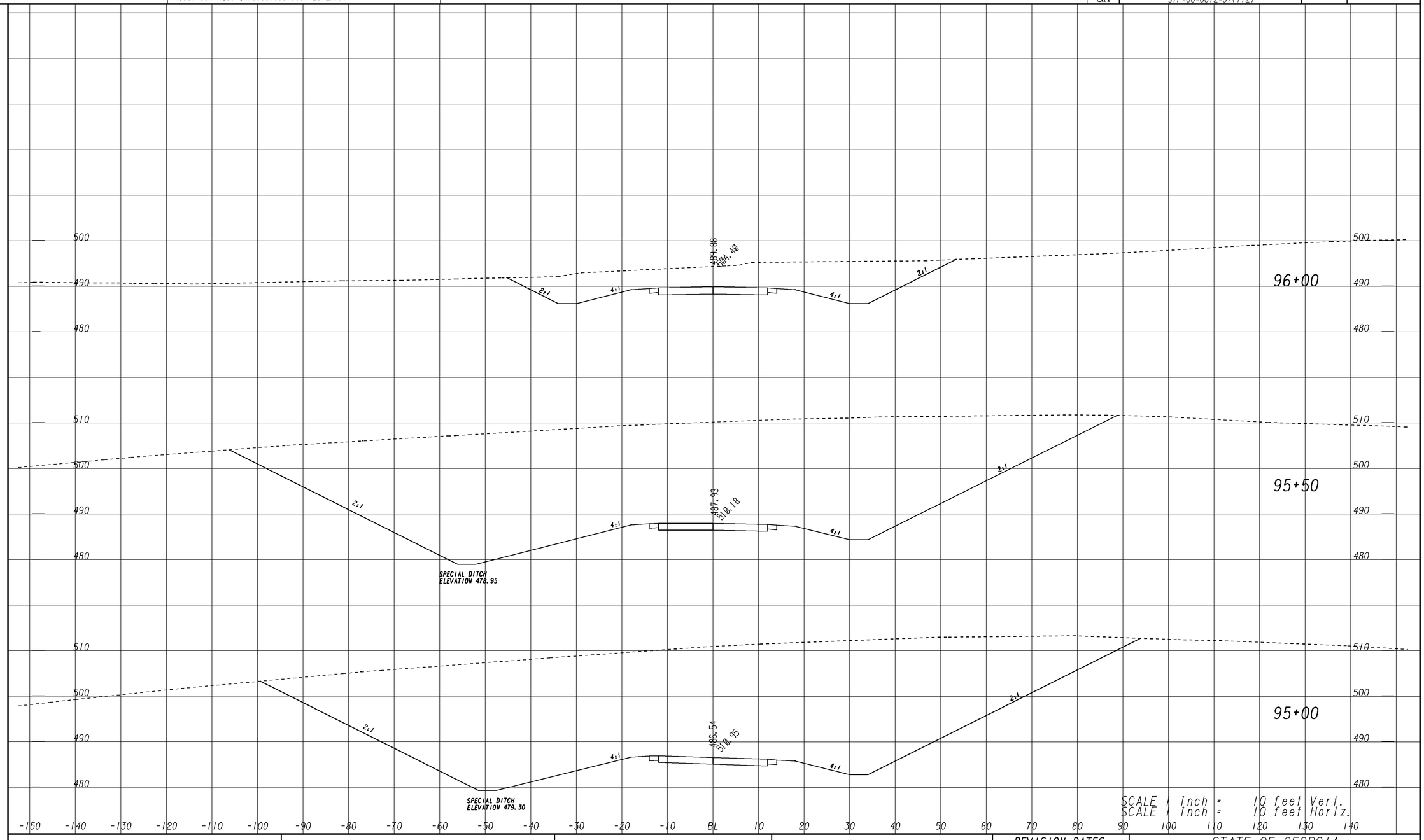
EARTHWORK CROSS SECTIONS

WHITE RELOCATION

DRAWING NO. 23-35

SUXSEW

Fri Feb 07 09:43:03 2014 skldd	Fri Feb 07 09:43:03 2014 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\DGN\662650\662650XSWHITERELOC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-00-0012-01(112)		



SUXSEW

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

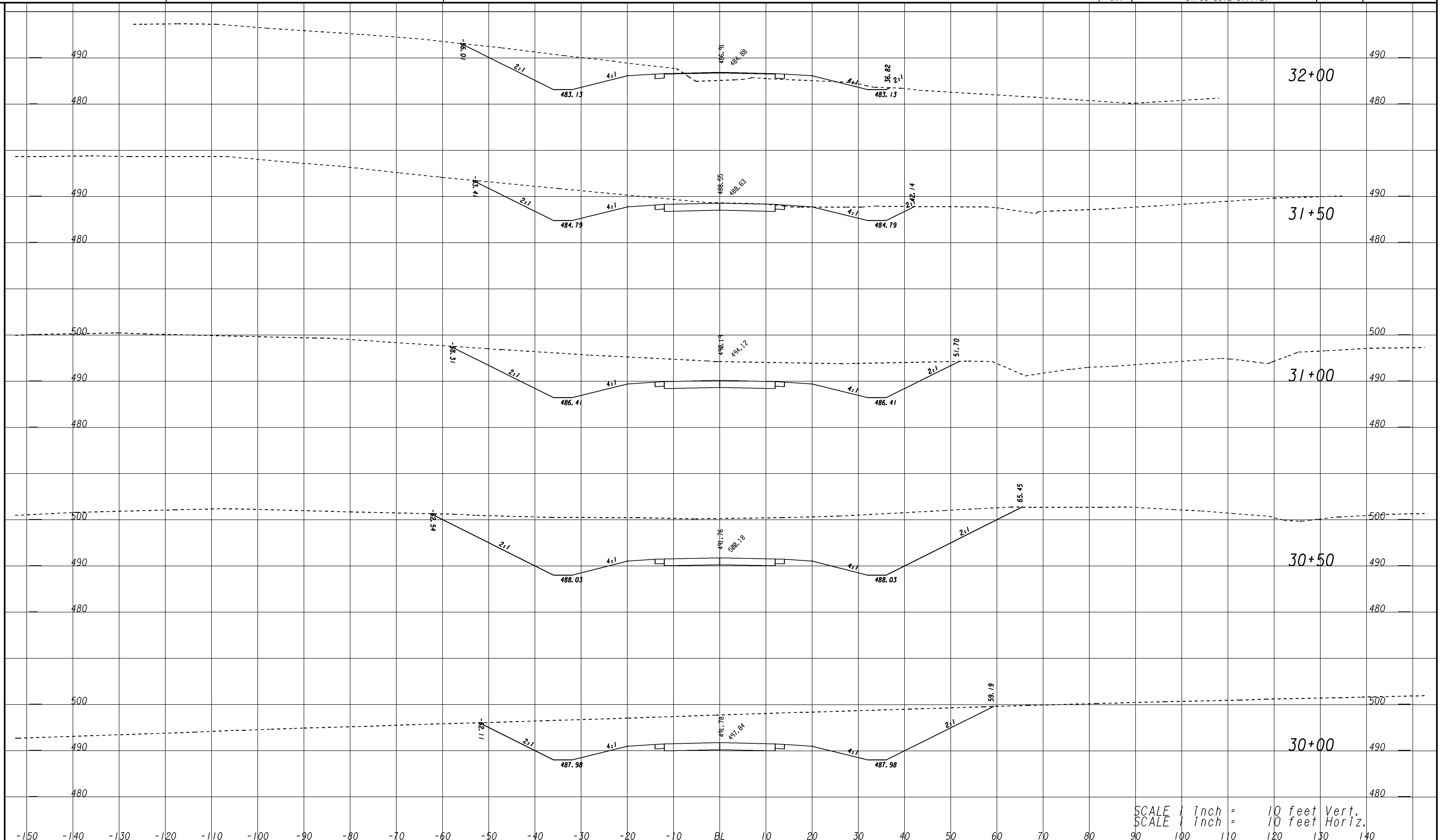
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

WHITE RELOCATION

DRAWING No. 23-36

Fri Feb 07 09:44:55 2014 sk1dd	Fri Feb 07 09:44:55 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSMTOLIVE.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP00-0012-01(112)		



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

GEORGIA DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

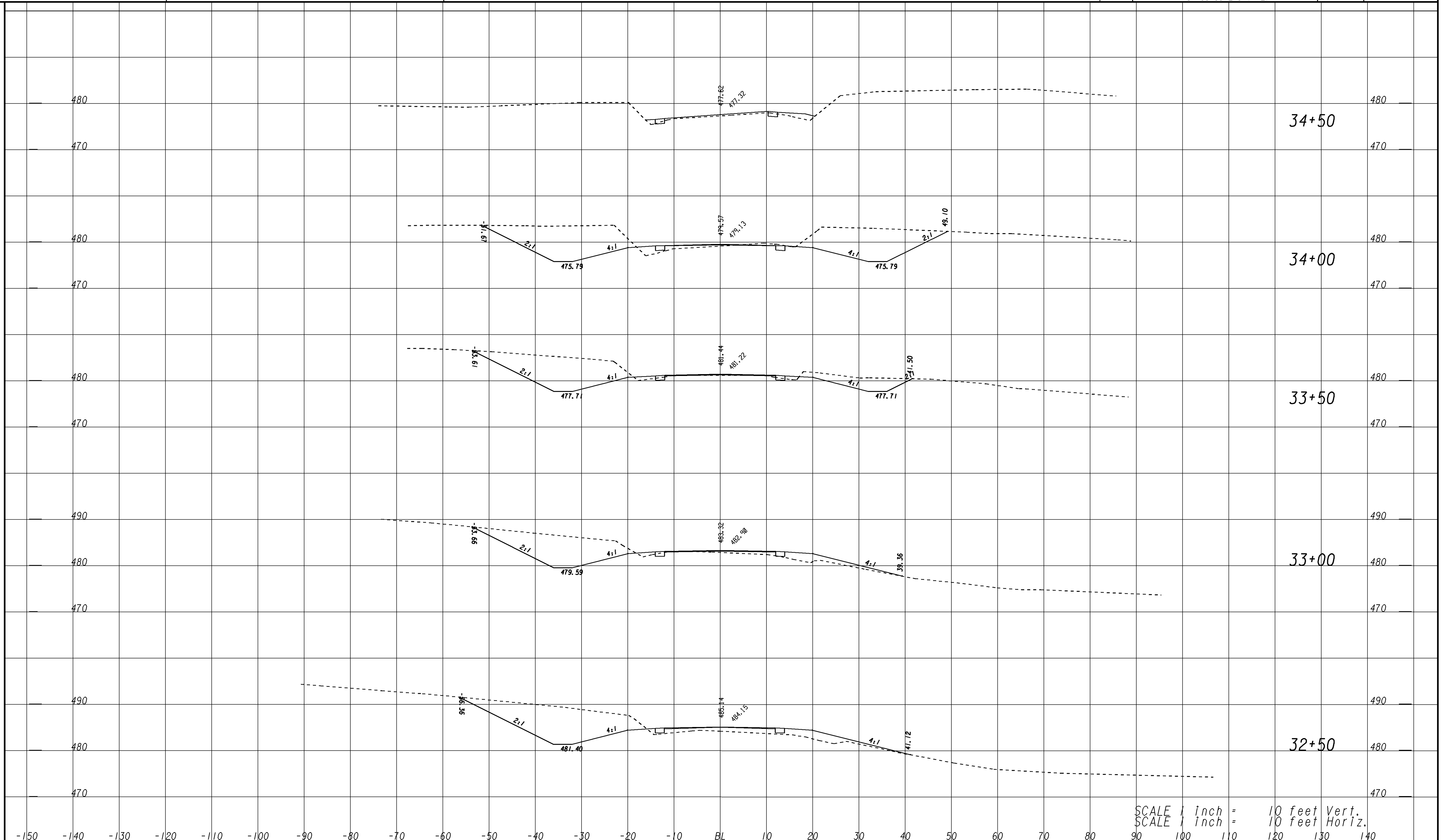
OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

MT. CARMEL

DRAWING No. 23-37

Fri Feb 07 09:44:50 2014 sklddd	Fri Feb 07 09:44:50 2014	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650XSMTOLIVE.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP00-0012-01(112)		



SUXSEW

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: DISTRICT SIX ROAD DESIGN

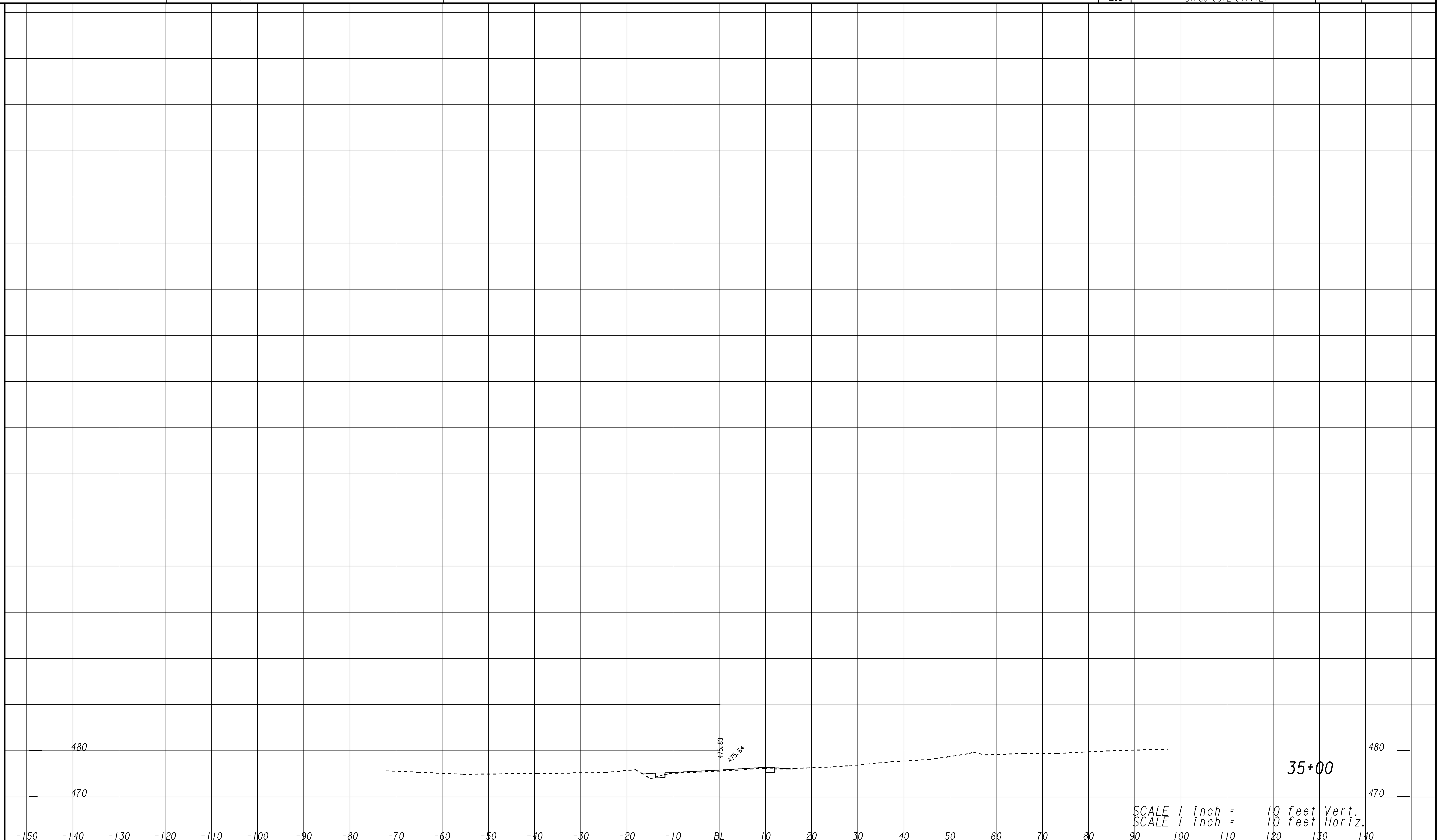
EARTHWORK CROSS SECTIONS

MT. CARMEL

DRAWING No. 23-38

Fri Feb 07 09:44:48 2014 | Fri Feb 07 09:44:48 2014 | skldd | \\gdot-dsnl\gocfg\resources\Gdot-2012.tbl | C:\dgn\662650\662650XSMTOLIVE.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP00-0012-01(112)		



GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: DISTRICT SIX ROAD DESIGN

EARTHWORK CROSS SECTIONS

MT. CARMEL

DRAWING No.
23-39

SUXSEW

2/7/2014 skldd	Fri Feb 07 09:45:23 2014	\\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650UtilityLegend.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	STP00-0012-01(112)		

EXISTING OVERHEAD	OVERHEAD TO BE REMOVED	PROPOSED OVERHEAD	TYPE OF UTILITY
E	E	E	ELECTRIC
E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
E-TC	E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
GW	GW	GW	GUY WIRE
T	T	T	TELECOMMUNICATIONS
T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
TV	TV	TV	CABLE TV
TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
TC	TC	TC	TRAFFIC CONTROL

EXISTING UNDERGROUND	UNDERGROUND TO BE REMOVED	PROPOSED UNDERGROUND	TYPE OF UTILITY
E	E	E	ELECTRIC (QL-D)
E(C)	E(C)		ELECTRIC (QL-C)
E(B)	E(B)		ELECTRIC (QL-B)
T	T	T	TELECOMMUNICATIONS (QL-D)
T(C)	T(C)		TELECOMMUNICATIONS (QL-C)
T(B)	T(B)		TELECOMMUNICATIONS (QL-B)
TV	TV	TV	CABLE TV (QL-D)
TV(C)	TV(C)		CABLE TV (QL-C)
TV(B)	TV(B)		CABLE TV (QL-B)
W	W	W	WATER (QL-D)
W(C)	W(C)		WATER (QL-C)
W(B)	W(B)		WATER (QL-B)
•• "W	•• "W	•• "W	WATER FOR LABELED PIPE SIZES (QL-D)
•• "W(C)	•• "W(C)		WATER FOR LABELED PIPE SIZES (QL-C)
•• "W(B)	•• "W(B)		WATER FOR LABELED PIPE SIZES (QL-B)
NW	NW	NW	NON-POTABLE WATER (QL-D)
NW(C)	NW(C)		NON-POTABLE WATER (QL-C)
NW(B)	NW(B)		NON-POTABLE WATER (QL-B)
•• "NW	•• "NW	•• "NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
•• "NW(C)	•• "NW(C)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
•• "NW(B)	•• "NW(B)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
STM	STM	STM	STEAM (QL-D)
STM(C)	STM(C)		STEAM (QL-C)
STM(B)	STM(B)		STEAM (QL-B)
•• "STM	•• "STM	•• "STM	STEAM FOR LABELED PIPE SIZES (QL-D)
•• "STM(C)	•• "STM(C)		STEAM FOR LABELED PIPE SIZES (QL-C)
•• "STM(B)	•• "STM(B)		STEAM FOR LABELED PIPE SIZES (QL-B)
SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
SS(C)	SS(C)		SANITARY SEWER WITH FLOW DIRECTION (QL-C)
SS(B)	SS(B)		SANITARY SEWER WITH FLOW DIRECTION (QL-B)
•• "SS	•• "SS	•• "SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
•• "SS(C)	•• "SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
•• "SS(B)	•• "SS(B)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
SFM(C)	SFM(C)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
SFM(B)	SFM(B)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
G	G	G	GAS (QL-D)
G(C)	G(C)		GAS (QL-C)
G(B)	G(B)		GAS (QL-B)
•• "G	•• "G	•• "G	GAS FOR LABELED PIPE SIZES (QL-D)
•• "G(C)	•• "G(C)		GAS FOR LABELED PIPE SIZES (QL-C)
•• "G(B)	•• "G(B)		GAS FOR LABELED PIPE SIZES (QL-B)
P	P	P	PETROLEUM (QL-D)
P(C)	P(C)		PETROLEUM (QL-C)
P(B)	P(B)		PETROLEUM (QL-B)
•• "P	•• "P	•• "P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
•• "P(C)	•• "P(C)		PETROLEUM FOR LABELED PIPE SIZES (QL-C)
•• "P(B)	•• "P(B)		PETROLEUM FOR LABELED PIPE SIZES (QL-B)
TC	TC	TC	TRAFFIC CONTROL (QL-D)
TC(C)	TC(C)		TRAFFIC CONTROL (QL-C)
TC(B)	TC(B)		TRAFFIC CONTROL (QL-B)
UNK(B)	UNK(B)		UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

UTILITY LEGEND

UTILITY CELLS

EXISTING	PROPOSED	TEMPORARY	
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
E	E	E	ELECTRIC BOX
M	M	M	MARKER
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
X	X	X	SPLICE BOX
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			CABINET
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE

EXISTING	PROPOSED	TEMPORARY	
W	W	W	WELL
W	W	W	WATER VAULT
W	W	W	WATER VALVE MARKER
			STAND PIPE
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN VALVE
			VENT
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE

MISC.	
LOS	LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
TH	TEST HOLE (QL-A ONLY)
EOI	END OF INFORMATION
	QUALITY LEVEL (QL) DELINEATION
123	POLE ID
A01	SANITARY SEWER MANHOLE (SSMH) ID

QUALITY LEVELS AND DEFINITIONS

QL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

QL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

AN OVERHEAD/SUBSURFACE UTILITY ENGINEERING INVESTIGATION (SUE) WAS PERFORMED AND COMPLETED ON MM/DD/YY FOR THIS PROJECT. THE EXISTING OVERHEAD AND UNDERGROUND FACILITIES SHOWN HEREON WERE INCLUDED IN THIS SUE INVESTIGATION. THE PRESENCE OF THESE UTILITY FACILITIES HAS BEEN THOROUGHLY INVESTIGATED AND THE METHOD OF DETERMINING THEIR LOCATION IS INDICATED AS SHOWN IN THE PLANS. UTILITIES THAT HAVE BEEN INSTALLED AFTER THE DATE ABOVE HAVE NOT BEEN INCLUDED IN THIS INVESTIGATION AND SHOULD BE CONSIDERED AS FROM RECORD DRAWING ONLY. ALL OTHER EXISTING TOPOGRAPHIC FEATURES DEPICTED HEREON HAVE BEEN REFERENCED FROM A TOPOGRAPHIC / MAPPING SURVEY AND CONTROL PACKAGE PROVIDED BY ??????????? AND DATED MM/DD/YY.

ALL THE FOLLOWING UTILITY OWNERS WERE REPORTED TO HAVE FACILITIES WITHIN THE VICINITY OF THIS PROJECT. UTILITIES FOUND WITHIN THE PROJECT'S LIMITS AT THE TIME OF THE SUE INVESTIGATION ARE INDICATED BELOW. THESE UTILITY FACILITIES ARE ALSO SHOWN ON THE PLANS HEREON.

3/1/2007 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

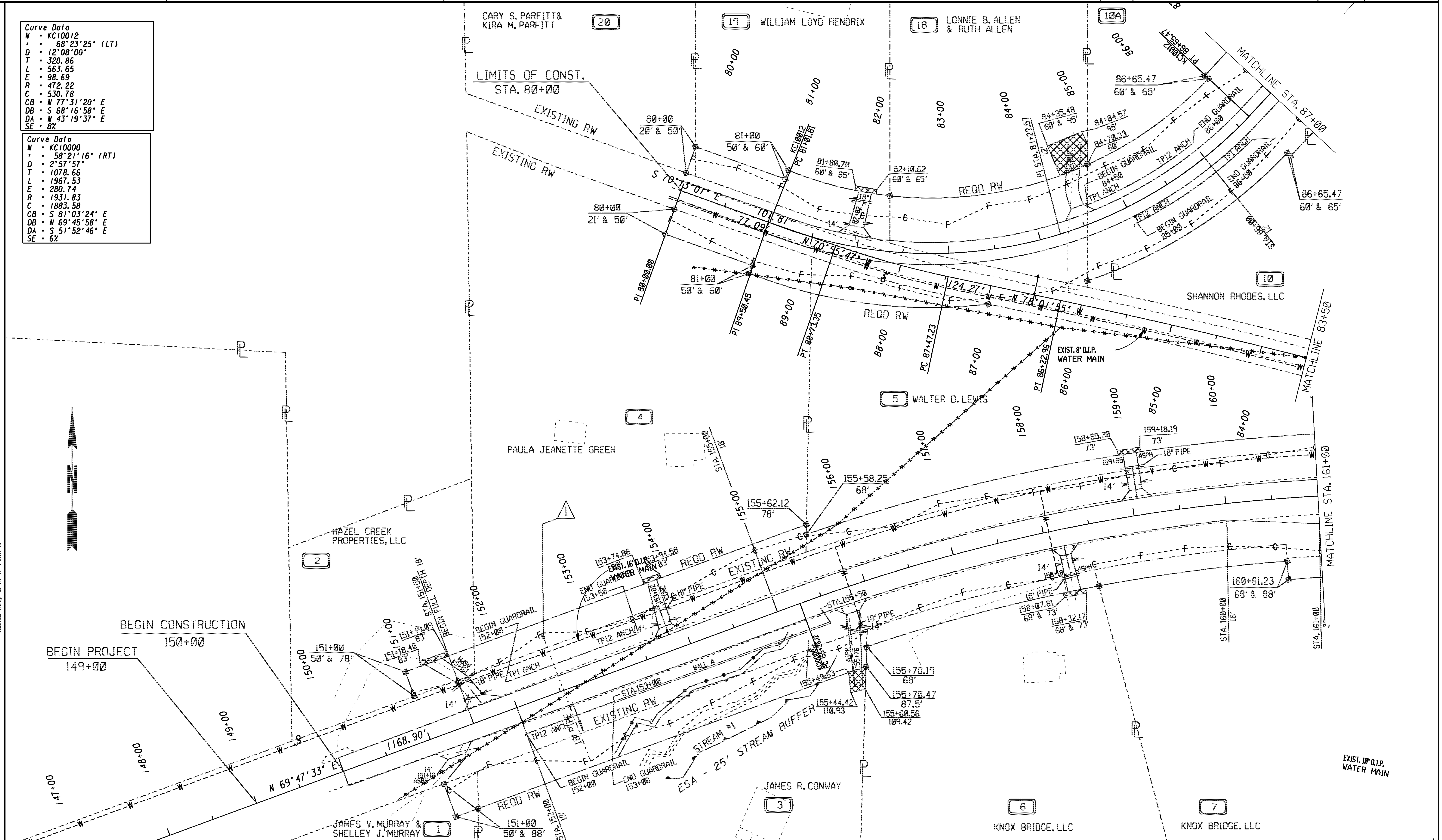
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

UTILITY PLANS LEGEND

DRAWING No. 24-001

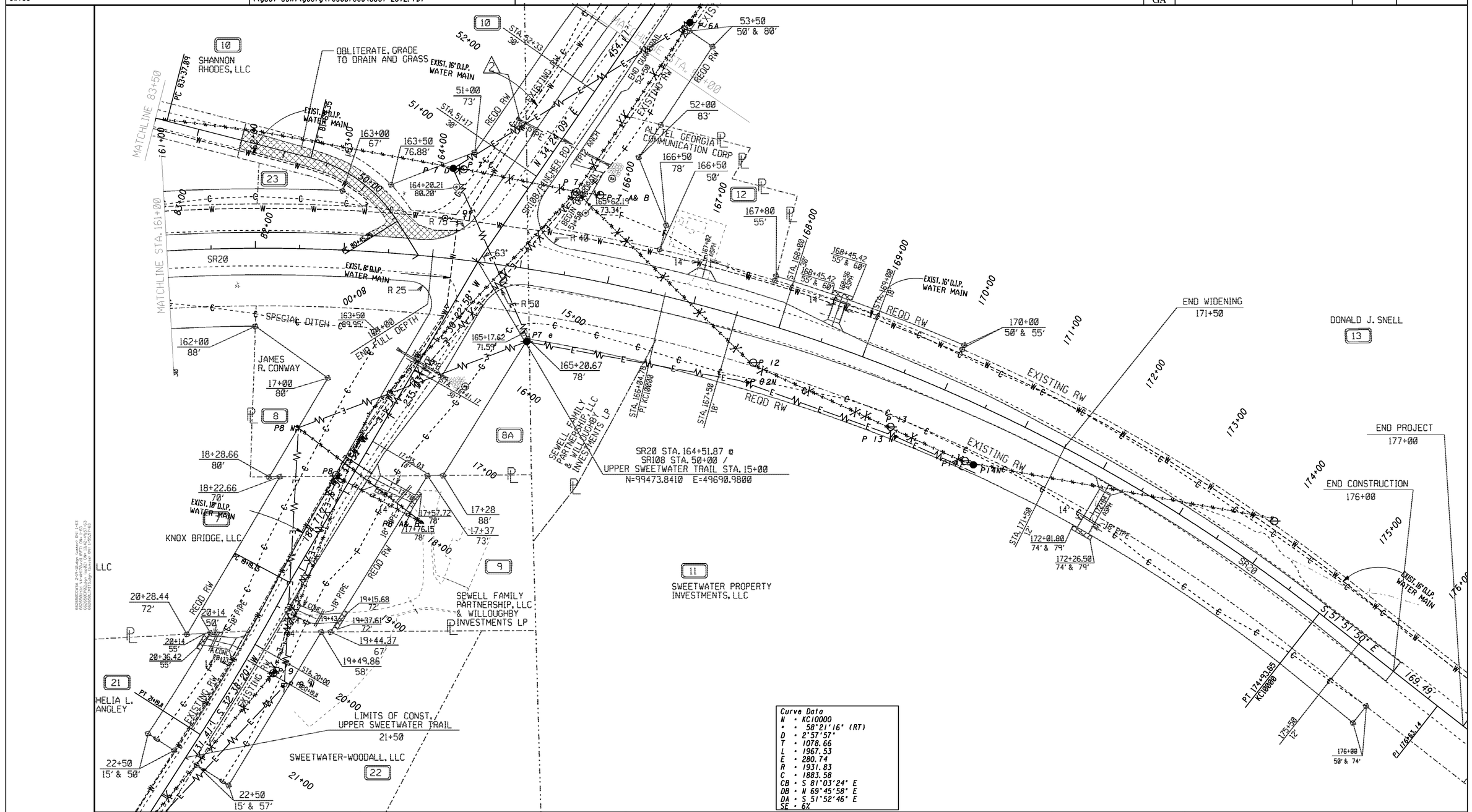
2/7/2014 skldd	Fri Feb 07 09:45:39 2014 \\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Utilityl.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



			REVISION DATES	
	GEORGIA DEPARTMENT OF TRANSPORTATION	SCALE IN FEET 0 50 100 200		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: UTILITY PLANS DRAWING No. 24-002

1/5/2009 GPLN

2/7/2014 skidd	Fri Feb 07 09:45:32 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Utility2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



Curve Data
W = KC10000
" = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

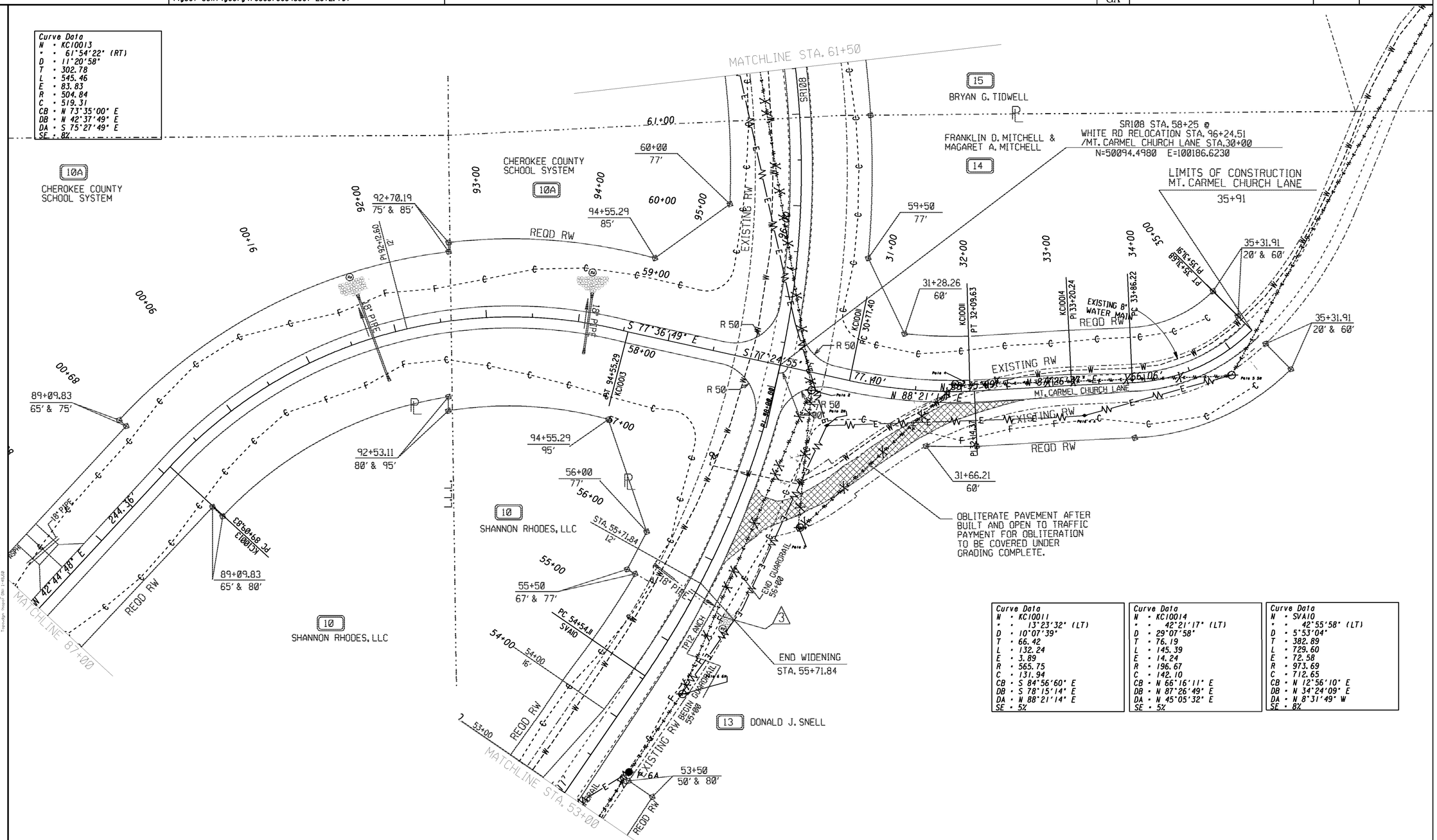
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

UTILITY PLANS

DRAWING NO.
24-003

1/5/2009 GPLN

2/7/2014 sklad	Fri Feb 07 09:45:28 2014	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Utility3.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

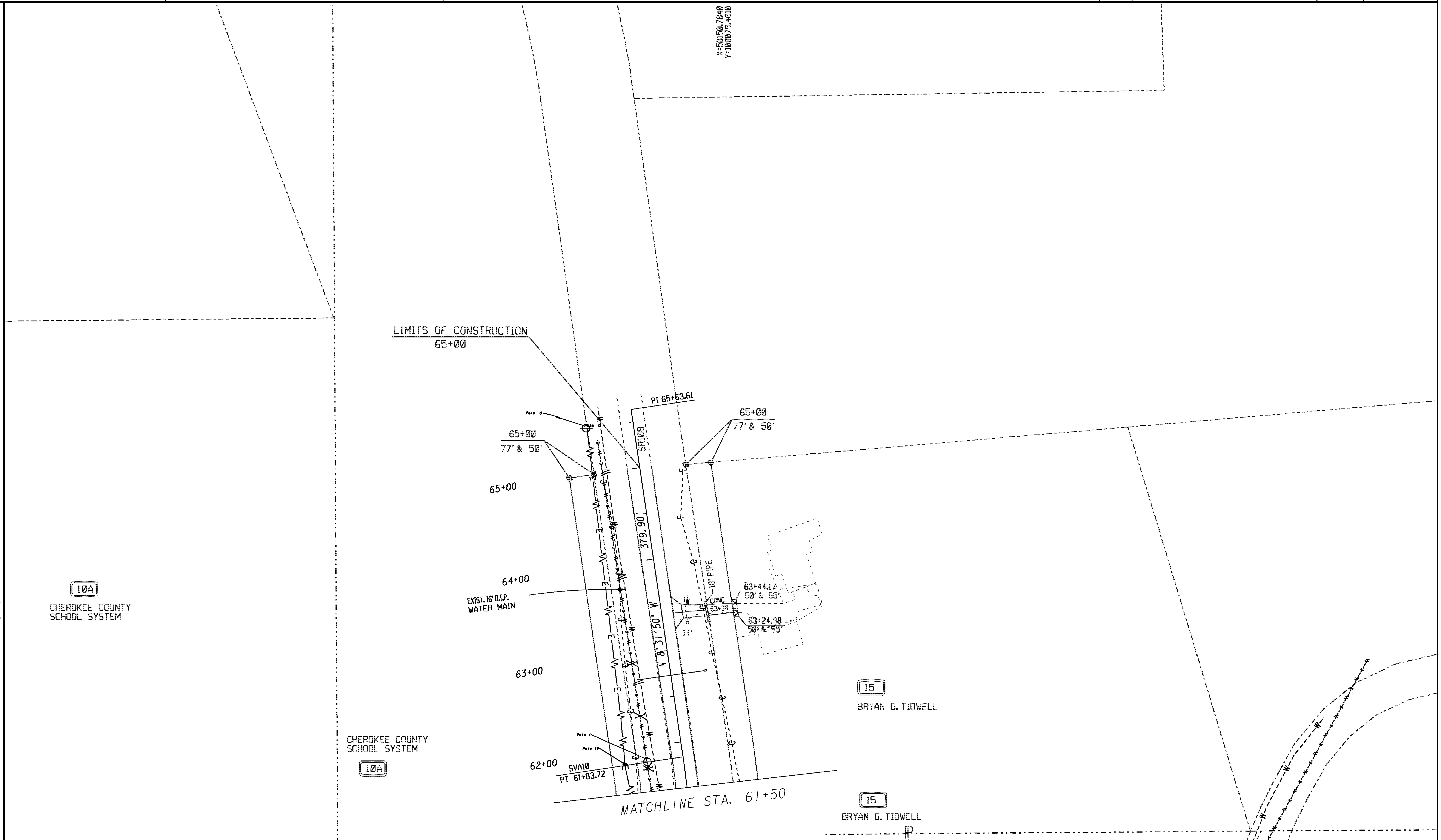
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

UTILITY PLANS

DRAWING No.
24-004

1/5/2009 GPLN

2/7/2014 skldd	Fri Feb 07 09:45:25 2014	\\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Utility4.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA
DEPARTMENT
OF
TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

UTILITY PLANS

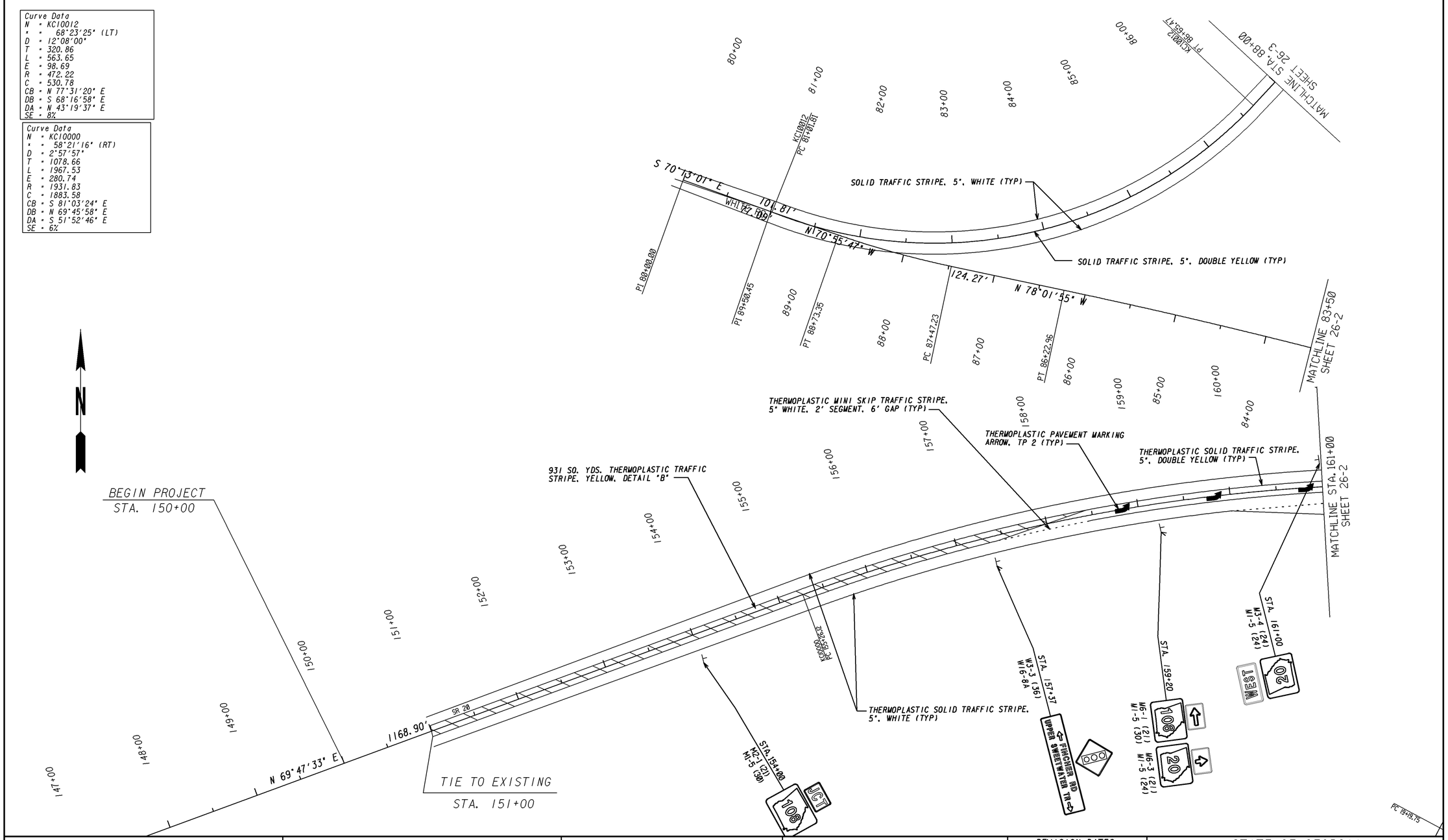
DRAWING No.
24-005

1/5/2009 GPLN

2/7/2014 Fri Feb 07 09:42:39 2014 skldd	\\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Strlpel.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			

Curve Data
N = KC10012
Δ = 68°23'25" (LT)
D = 12°08'00"
T = 320.86
L = 563.65
E = 98.69
R = 472.22
C = 530.78
CB = N 77°31'20" E
DB = S 68°16'58" E
DA = N 43°19'37" E
SE = 8%

Curve Data
N = KC10000
Δ = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%



REVISION DATES		

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

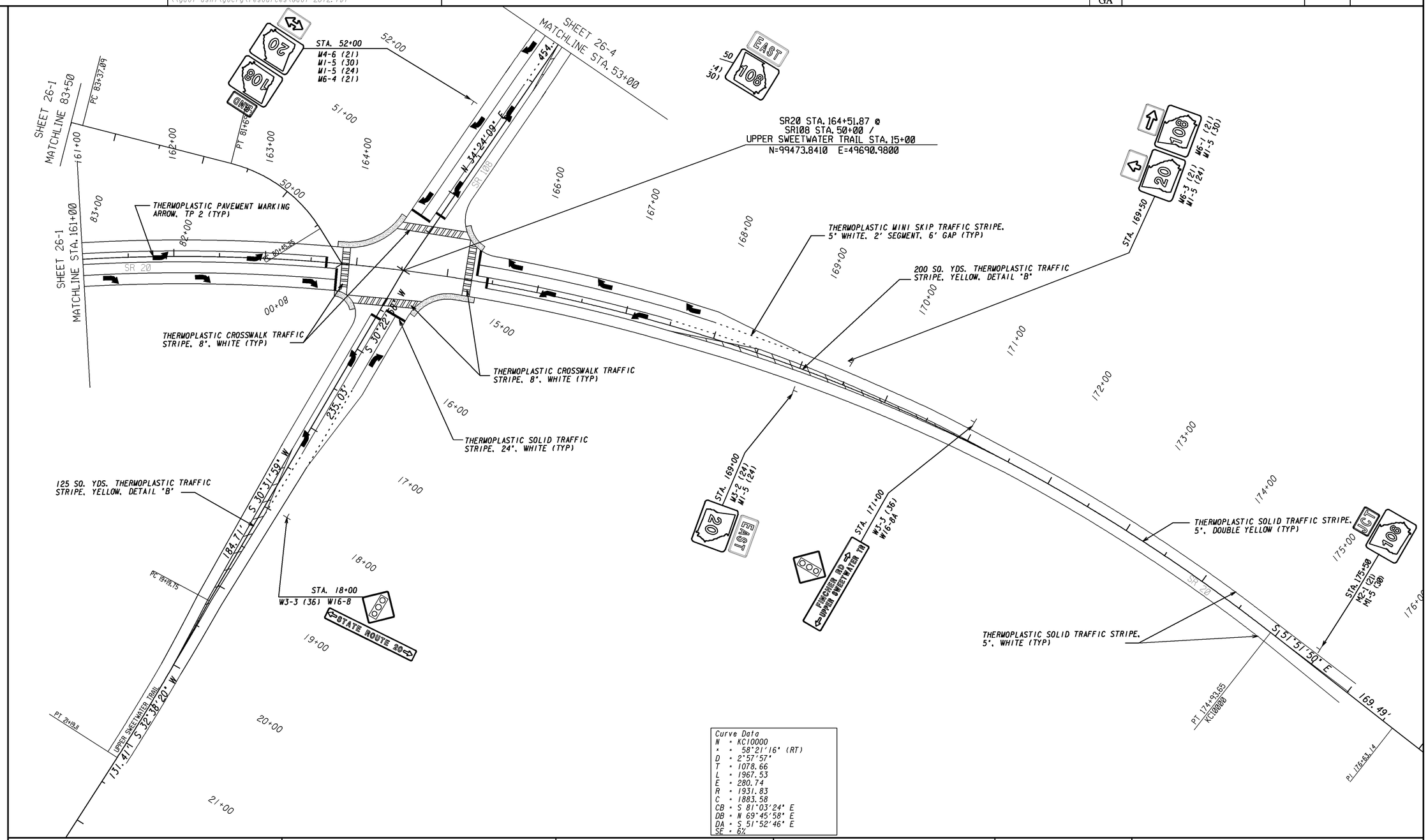
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

SIGNING AND MARKING PLANS

DRAWING No. 26-1

1/5/2009 GPLN

2/7/2014 Fri Feb 07 09:42:33 2014 skldd	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	c:\dgn\662650\662650Strlpe2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA			



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
SIGNING AND MARKING PLANS

DRAWING No. 26-2

1/5/2009 GPLN

W16-8A

Curve Data
N = KC10013
* = 61°54'22" (RT)
D = 11°20'58"
T = 302.78
L = 545.46
E = 83.83
R = 504.84
C = 519.31
CB = N 73°35'00" E
DB = N 42°37'49" E
DA = S 75°27'49" E
SE = 8%

SHEET 26-4
MATCHLINE STA. 61+50

SR 1108

61+00 60+00 59+00 58+00 57+00 56+00 55+00 54+00 53+00

96+00 95+00 94+00 93+00 92+00 91+00 90+00 89+00

SOLID TRAFFIC STRIPE. 5". WHITE (TYP)

SOLID TRAFFIC STRIPE. 5". DOUBLE YELLOW (TYP)

S 77°36'49" E
WHITE RD
S 77°24'55" E
77.40'
N 89°35'09" E
N 88°21'14" E
N 87°26'47" E
66.06'
MOUNT CARMEL CHURCH LANE

PT 94+55.29
KC10013

PC 89+09.83
KC10013

N 42°44'48" E
244.36'

STA. 92+00
W3-1 (36)

STA. 96+00
R1-1 (36)

STA. 30+28
R1-1 (36)

KC10011
PC 30+77.40

KC10011
PT 32+09.63

KC10014
PI 33+20.24

KC10014
PC 33+86.22

STA. 33+86
W3-1 (36)

PI 35+34.59
PI 35+53.91

PI 32+14.37

THERMOPLASTIC SOLID TRAFFIC STRIPE. 24". WHITE (TYP)

SOLID TRAFFIC STRIPE. 5". WHITE (TYP)

SOLID TRAFFIC STRIPE. 5". DOUBLE YELLOW (TYP)

STA. 57+00
M2-1 (21)
M1-5 (24)

THERMOPLASTIC SOLID TRAFFIC STRIPE. 5". WHITE (TYP)

THERMOPLASTIC SOLID TRAFFIC STRIPE. 5". DOUBLE YELLOW (TYP)

THERMOPLASTIC MINI SKIP TRAFFIC STRIPE. 5" WHITE. 2' SEGMENT. 6' GAP (TYP)

PC 54+54.11
SVA10

STA. 54+75
W2-1 (36)
W16-8A

MT CARMEL CHURCH LN
WHITE RD

STA. 53+50
W3-3 (36)

202 SQ. YDS. THERMOPLASTIC TRAFFIC STRIPE. YELLOW. DETAIL "B"

STA. 53+50
W3-2 (24)
M1-5 (30)

MATCHLINE STA. 53+00
SHEET 26-2

MATCHLINE 87+00
SHEET 26-1

Curve Data
N = KC10011
* = 13°23'32" (LT)
D = 10°07'39"
T = 66.42
L = 132.24
E = 3.89
R = 565.75
C = 131.94
CB = S 84°56'60" E
DB = S 78°15'14" E
DA = N 88°21'14" E
SE = 5%

Curve Data
N = KC10014
* = 42°21'17" (LT)
D = 29°07'58"
T = 76.19
L = 145.39
E = 14.24
R = 196.67
C = 142.10
CB = N 66°16'11" E
DB = N 87°26'49" E
DA = N 45°05'32" E
SE = 5%

Curve Data
N = SVA10
* = 42°55'58" (LT)
D = 5°53'04"
T = 382.89
L = 729.60
E = 72.58
R = 973.69
C = 712.65
CB = N 12°56'10" E
DB = N 34°24'09" E
DA = N 8°31'49" W
SE = 8%

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

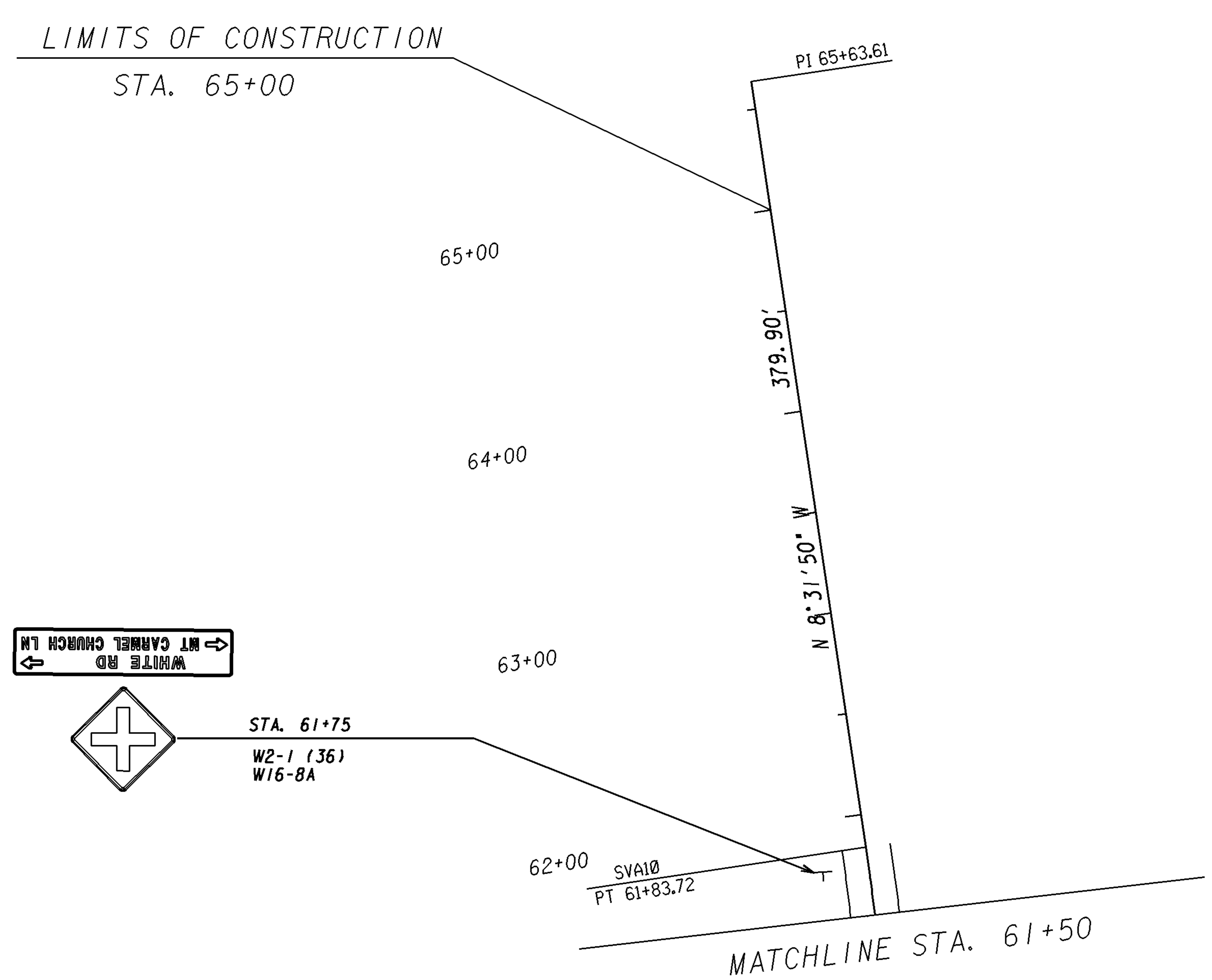
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

SIGNING AND MARKING PLANS

DRAWING NO.
26-3

2/7/2014 skldd	Fri Feb 07 09:42:30 2014	\\gdot-dsni\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650Stripe4.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA			



GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

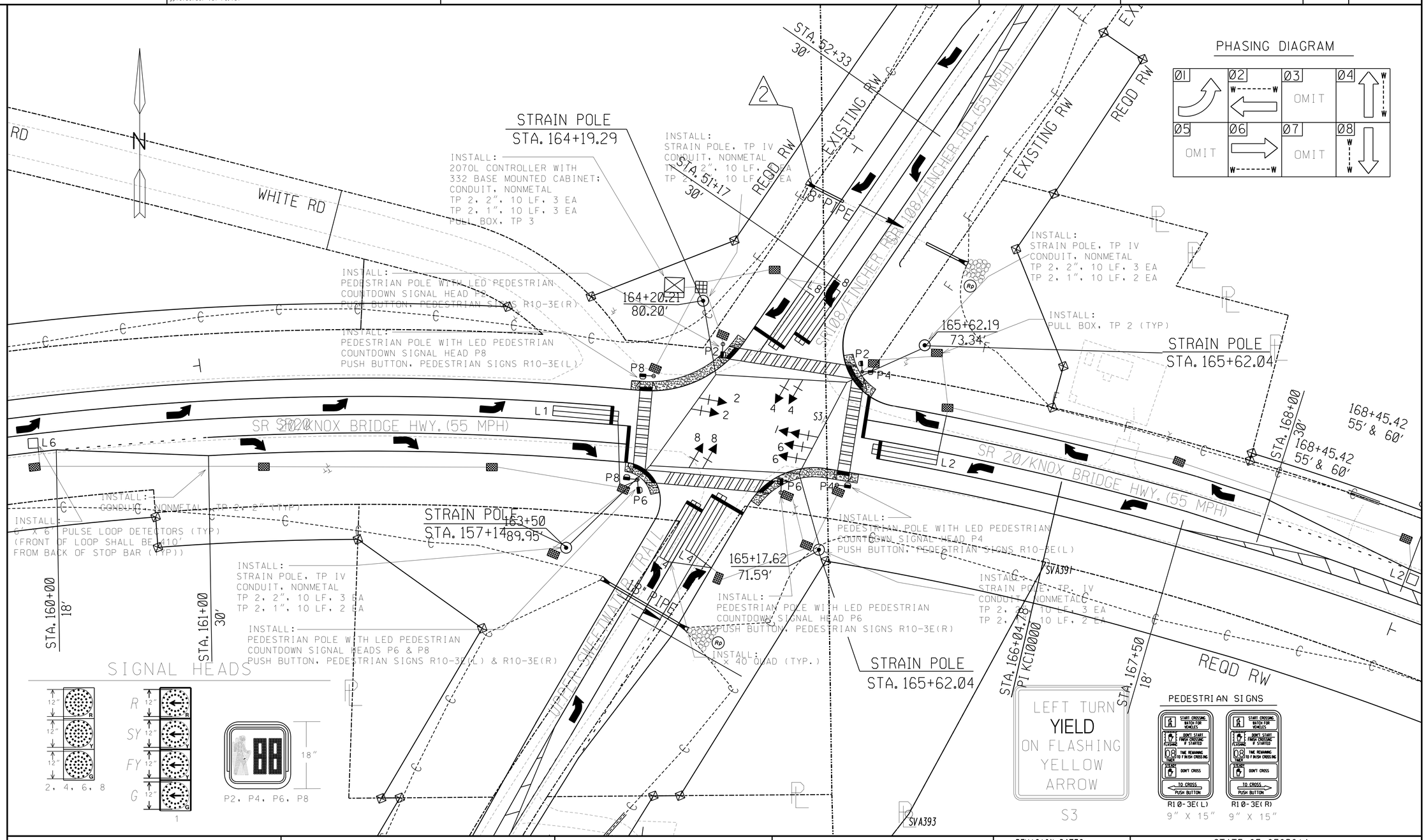
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN
SIGNING AND MARKING PLANS

DRAWING No. 26-4

1/5/2009 GPLN

2/7/2014 2:12:58 PM USER:sk1dd	Jversion gplotborder-v81-P0.tbl	C:\Users\sk1dd\Desktop\662650SG01cp3 (Rev20131217).dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 30 60 120

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

CONSTRUCTION PLAN

SR 20 @ SR 108/
UPPER SWEETWATER TRAIL

DRAWING No.
27-001

332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UPPER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2CH	2CH				2CH						DC ISO	DC ISO	DC ISO
CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	L1	L2				L4						Ø2 PED	Ø6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C

CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		L2				L4						Ø4 PED	Ø8 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

LOWER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2CH				2CH								
CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION		L6				L8								
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12

CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION						L8								
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

LIST OF MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070L	EA	1
E. SWITCH PACK	EA	9
F. DC ISOLATOR	EA	3
G. LOOP DETECTOR, 2 CHANNEL	EA	5
J. 2010 CONFLICT MONITOR, EXTENDED FEATURES	EA	1
332A PREFABRICATED CONTROLLER CABINET BASE	EA	1
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG	REEL	3
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	2
LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	3
3-SECTION, 12" SIGNAL HEAD w/(5mm) LED - "INCANDESCENT LOOK" - , PLASTIC	EA	6
4-SECTION, 12" SIGNAL HEAD w/(5mm) LED-"INCANDESCENT LOOK"-, PLASTIC	EA	1
1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP		
9" HIGH, Numbers & 12" Symbols	EA	8
9" x 15", Double Push Button Station Adapter for 4" Dia Pedestrian Pole, Adjustable	EA	4
PEDESTRIAN PUSHBUTTONS STATIONS, w/BUTTONS and SIGNS:		
9" x 15", R10-3e, (L)eft or (R)ight, Countdown	EA	8
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK	EA	7
BACK PLATE FOR ONE-WAY, 5-SECTION, CLUSTERED 12" SIGNAL HEAD, ABS PLASTIC, BLACK	EA	1
HARDWARE FOR SPANWIRE MOUNTING	EA	8
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	4
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	2
PEDESTAL POLE & SQUARE BASE	EA	6
PULL BOX, PB-2	EA	16
PULL BOX, PB-3	EA	1
LOOP SAW CUT	LF	2160
CONDUIT, 1"	LF	100
CONDUIT, 2"	LF	1160
R10-12, LEFT TURN YIELD ON GREEN SIGN	EA	1
CHAIN LINK BELT CLAMP, RATED 12,000LBS. OR GREATER	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LS	LS

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

REVISION DATES

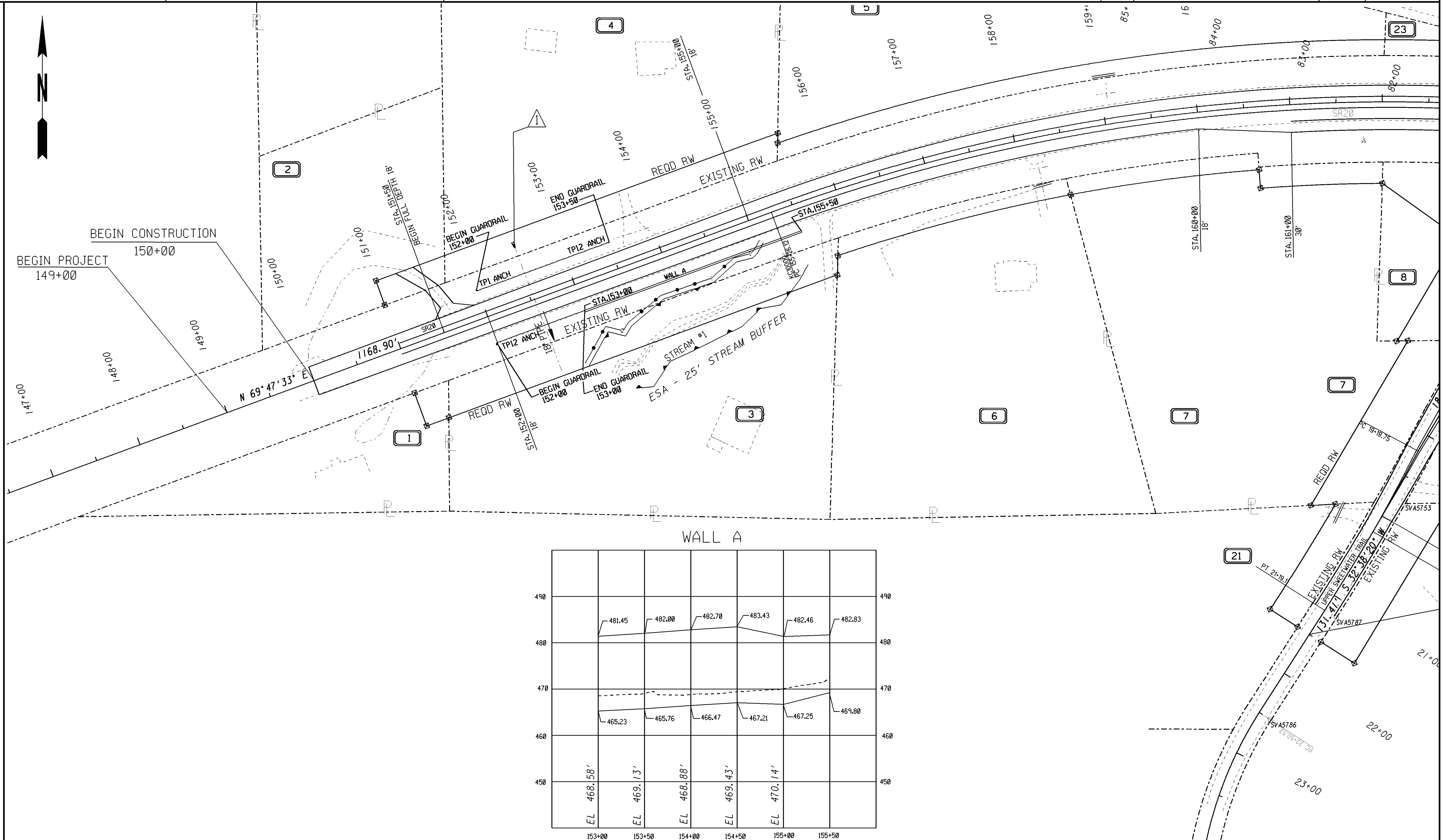
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

CONSTRUCTION PLAN

DRAWING No. 13-

GPLN

2/7/2014 sk1dd	Fri Feb 07 09:45:22 2014 \\gdot-dsnl\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650WALL.DGN	STATE: GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

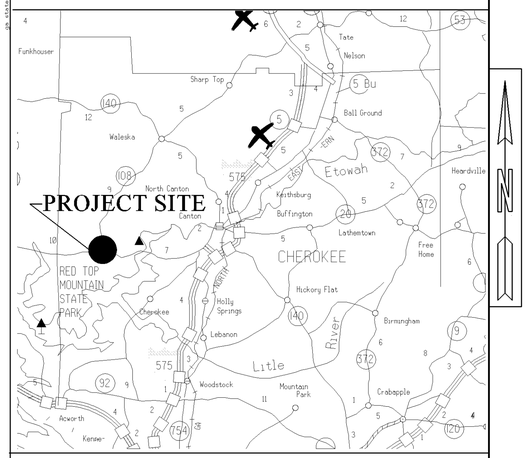
RETAINING WALL ENVELOPES

DRAWING No.
31-001

1/5/2009 GPLN

2/7/2014 sklad	\\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	C:\dgn\662650\662650ErosionCover.dgn GRWCOV	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	STP-012-1(112)	119	130

LOCATION MAP



NO SCALE

THIS PROJECT IS LOCATED 100% IN CHEROKEE COUNTY.

THIS PROJECT IS LOCATED 100% IN CONGRESSIONAL DISTIST NO. 7.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

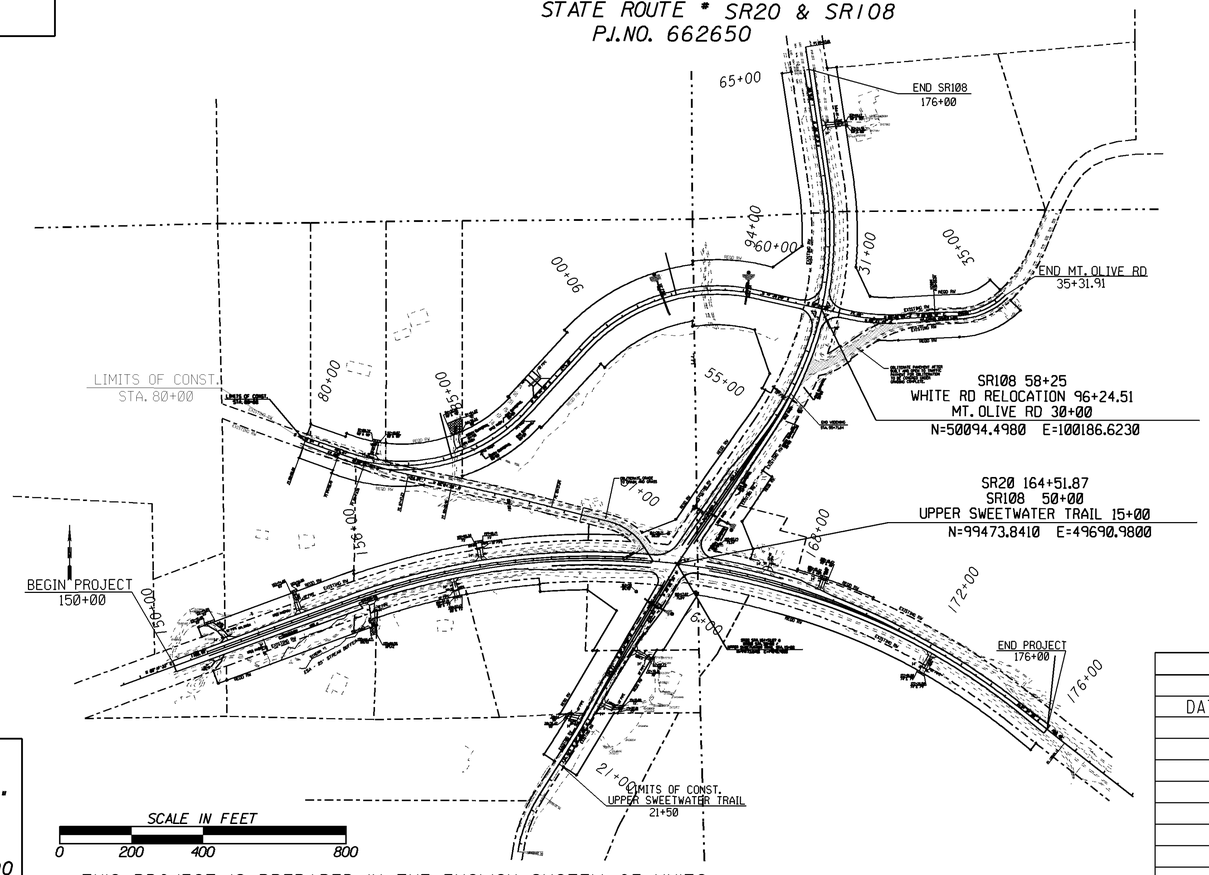
EROSION, SEDIMENT, & POLLUTION CONTROL PLAN

INTERSECTION IMPROVEMENTS SR20 @ SR108

FEDERAL AID PROJECT

STP-012-1 (112) CHEROKEE COUNTY

*FEDERAL ROUTE * N/A*
*STATE ROUTE * SR20 & SR108*
P.I.NO. 662650



THIS PROJECT IS PREPARED IN THE ENGLISH SYSTEM OF UNITS.

MIDPOINT COORDINATES

N=34°13'22.28" W=84°37'04.86"

SR20 STA. 164+51.87
SR108 STA. 50+00
UPPER SWEETWATER TRAIL STA. 15+00

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with part IV GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent under my direct supervision.

Gerald M. Ross, P.E. GSWCC LEVEL II Certification #0000044443

LOCATION AND DESIGN APPROVAL DATE: 8-16-05

	PLANS COMPLETED - -			
	REVISIONS			
DATE	PAGE NO.	REQUESTED BY	SIGNATURE	GSWCC LEVEL II #

GRWCOV
3/17/2007

ESPCP GENERAL NOTES:

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities.

Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

PLAN ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added per Special Provision 161 - Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR100002 states that "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specifications may require mulching more often than 7 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizing, liming and mulching for this project can be found in section 700 of the current edition of the Department's Standard Specifications (or special provisions) and other applicable contract documents, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

Best Management Practices (BMPs) shall apply to this project. They consist of vegetative and structural measures that shall be properly installed and maintained in accordance with the GDOT standards and practices. They shall provide effective erosion prevention and sedimentation control. If possible existing vegetations on construction site should be maintained. Good seed must be planted on construction site. No construction activities shall be conducted within twenty five feet of all state waters and within fifty feet along the bank of any stream. The BMPs must be implemented in three stages:

Stage 1: Site preparation.

This stage relates to all activities prior to construction activities and shall be completed into three sub-stages, according to the following order:

A. Installation of temporary silt fences and baled straw erosion checks as shown on plans. Silt fences shall specially be used as preventive filters to protect existing ponds, lakes and small channels. They must be applied upstream of ponds/lakes and downstream of construction.

B. Installation of type C fabric ditch checks and/or stone check dams in existing roadway ditches.

C. Access stabilization: construction exits shall provide stable access to sites. They must be checked daily and repaired as needed. They must be removed after construction and restored to pre-existing conditions.

D. Clearing and grubbing operations: during this sub-stage, all exposed areas must be covered with temporary mulch. The mulch shall be applied to all exposed areas within fourteen days of disturbance and they will be maintained so that at least ninety percent of the soil surface is covered. The materials will be applied uniformly and anchored immediately after application. Mulch can be used as a single erosion control device for up to six months. Temporary seeding, an alternative to mulch, can be used on rough graded areas that will be exposed for less than six months. If the area is expected to be undisturbed for longer than six months, permanent vegetative cover shall be used. Temporary seeding shall be applied to all exposed areas within fourteen days of disturbance. Plant species that will germinate quickly and provide ample protective cover for that area and season of the year shall be selected. In most cases, temporary vegetation can be established without mulch except on steep slopes and in concentrated flow areas. Seeding must be applied according to the pure live seed (PLS) rates.

Stage 2: Intermediate or construction activities.

During this stage, grading operations take place. GDOT approved temporary and permanent vegetative and structural BMPs must be applied as shown on plans. On areas where temporary vegetative BMPs have to be applied, all BMPs mentioned for clearing and grubbing shall apply. Permanent vegetative BMPs (sodding, matting and blankets) must be laid and anchored appropriately (start at top of slope and work down).

Permanent vegetative BMPs shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall also be applied immediately to all areas at final grade. Low maintenance and native plant species appropriate for the region shall be planted, established, and maintained so that at least seventy percent of the soil is covered with perennial vegetation for long-term erosion control. For adequate plant growth, the soil must have proper pH and ample plant food. Suitable and anchored mulch is required for all sites planted with permanent vegetation, except where erosion control blankets or block sod are used. Mulch anchoring and application must be done appropriately according to the GDOT standards and practices. All installed mats and blankets must be inspected periodically after storm events until the areas become permanently stabilized with vegetation. Any dislocation or failure shall be repaired immediately.

The temporary and permanent structural BMPs are shown on plans. To provide erosion control at point of concentrated flow and high flow velocities, rock filter dam and stone dumped rip rap shall be used. Sediment barrier must be installed along contours with ends pointing uphill except in waterways or areas of concentrated flow. Temporary sediment barrier must be placed around storm drain inlets that receive runoff from disturb areas except where vehicular traffic will be affected. Check-dams (or ditch-checks) must be placed in small open channels (ditch), not in live streams. Seed and mulch area beneath the check-dam after it removal. Temporary downdrain structures must be removed once the permanent stormwater disposal system is installed and functioning. Storm drain outlet protection, shall be placed at the downdrain outlet. Permanent downdrain structures shall safely convey the 25-yr, 24-hr storm and may be constructed of concrete, pipe, pre-fabricated sectional conduit or other adequate materials approved by GDOT standards and specs.

Stage 3: Post construction activities: see post-construction BMPs section
POST-CONSTRUCTION BMPS

All permanent, post-construction BMPs are shown in the construction plans and in the ESPCP for velocity dissipation and outlet stabilization, channel/ditch stabilization with permanent soil plan. The post- construction BMPs for this project include grassing, rip-rap at pipe outlets reinforcing mats and rip-rap where necessary. The post-construction BMPs will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

Sediment shall not be washed into inlet. It shall be removed from the sediment traps and disposed of and stabilized so that it will not enter the inlets again. Mulch or temporary grassing shall be applied to all exposed areas within fourteen days of land disturbance. All disturbed areas left mulched after thirty days shall be stabilized with permanent grassing.

The contractor shall maintain all erosion control measures until permanent ground cover is established.

All roadway and parking shoulders should be grassed as soon as final grade is achieved behind curbs.

Sediment and erosion control measures should be checked after each rain event. Each device is to be maintained or replaced if sediment accumulation has reached one half the capacity of the device. Additional devices must be installed if new channels have developed.

Erosion control measures must be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source as directed by the onsite inspector or the design professional.

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture and disposal of any petroleum product leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with this plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMP's needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

SOIL SERIES INFORMATION

A project-specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and in the selection of permanent vegetation and fertilizers.

The following is a summary of the soils that are expected to be found on the project site:

Erosion Hazard (Off-Road, Off-Trail)— Summary by Map Unit — Cherokee, Gilmer, and Pickens Counties, Georgia (GA622)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
Afs	Augusta fine sandy loam	Slight	Augusta (95%)		0.5	0.0%
			Worsham (5%)			
AmC2	Appling sandy loam, 6 to 10 percent slopes, eroded	Slight	Appling (100%)		7.1	0.4%
Chc	Chewacla-Cartecay complex	Slight	Cartecay (50%)		2.9	0.2%
			Chewacla (45%)			
			Wehadkee (5%)			
GdD3	Gwinnett sandy clay loam, 6 to 15 percent slopes, severely eroded	Slight	Gwinnett (100%)		6.4	0.4%
GgE2	Gwinnett loam, 10 to 25 percent slopes, eroded	Moderate	Gwinnett (100%)	Slope/erodibility (0.50)	0.1	0.0%
HJE3	Hayesville sandy clay loam, 10 to 25 percent slopes, severely eroded	Moderate	Hayesville (100%)	Slope/erodibility (0.50)	2.3	0.1%
HlE	Hayesville fine sandy loam, 10 to 25 percent slopes	Moderate	Hayesville (100%)	Slope/erodibility (0.50)	14.3	0.9%
HSC	Hiwassee loam, 6 to 10 percent slopes	Slight	Hiwassee (100%)		1.5	0.1%
MCE	Musella cobbly loam, 10 to 25 percent slopes	Moderate	Musella (100%)	Slope/erodibility (0.50)	4.7	0.3%
MlC2	Madison gravelly sandy clay loam, 2 to 10 percent slopes, eroded	Slight	Madison (100%)		37.0	2.3%
MjB	Madison fine sandy loam, 2 to 6 percent slopes	Slight	Madison (100%)		4.4	0.3%
MjC	Madison fine sandy loam, 6 to 10 percent slopes	Slight	Madison (100%)		184.6	11.5%

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 6/ROAD DESIGN
ESPC GENERAL NOTES
SR20 @ SR108

DRAWING No. 51-1

Erosion Hazard (Off-Road, Off-Trail)— Summary by Map Unit — Cherokee, Gilmer, and Pickens Counties, Georgia (GA622)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
MjD	Madison fine sandy loam, 10 to 15 percent slopes	Slight	Madison (100%)		239.0	14.9%
Sta	Starr fine sandy loam	Slight	Starr (100%)		9.2	0.6%
TcD	Tallapoosa fine sandy loam, 6 to 15 percent slopes	Slight	Tallapoosa (100%)		87.2	5.4%
TcE	Tallapoosa fine sandy loam, 15 to 25 percent slopes	Moderate	Tallapoosa (100%)	Slope/erodibility (0.50)	363.7	22.6%
ThE2	Tallapoosa gravelly sandy clay loam, 10 to 25 percent slopes, eroded	Moderate	Tallapoosa (100%)	Slope/erodibility (0.50)	15.0	0.9%
TjF	Tallapoosa channery sandy loam, 25 to 60 percent slopes	Severe	Tallapoosa (100%)	Slope/erodibility (0.75)	495.3	30.8%
Toe	Toccoa complex	Slight	Toccoa (100%)		119.0	7.4%
W	Water	Not rated	Water (100%)		1.1	0.1%
WgC2	Wickham fine sandy loam, 6 to 10 percent slopes, eroded	Slight	Wickham (100%)		6.6	0.4%
WgE2	Wickham fine sandy loam, 10 to 25 percent slopes, eroded	Moderate	Wickham (100%)	Slope/erodibility (0.50)	5.1	0.3%
WnC3	Wickham sandy clay loam, 2 to 10 percent slopes, severely eroded	Slight	Wickham (100%)		1.2	0.1%
Totals for Area of Interest					**1,608.0**	**100.0%**

Erosion Hazard (Off-Road, Off-Trail)— Summary by Rating Value

Rating	Acres in AOI	Percent of AOI
Slight	706.5	43.9%
Severe	495.3	30.8%
Moderate	405.1	25.2%
Null or Not Rated	1.1	0.1%
Totals for Area of Interest	**1,608.0**	**100.0%**

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably possible to identify the precise locations of the above reference soils on the plans. The NRCS soil survey and soil series maps for the project area are also available online at: http://websoilsurvey.nrcs.usda.gov/.

POST-CONSTRUCTION BMP'S

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project may consist of filter basins, vegetation, permanent slope drains and/or flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channel/ditch stabilization with Turf Reinforcing Mats, rip-rap, and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.)

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J-Hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J-Hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 710, and other contract documents for stabilization and maintenance measures.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

INSPECTIONS

By agreement with Georgia EPD, the design professional who prepared the ESPCP, or a certified designee, is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days of installation. Additionally, the Department's Construction Project Engineer will be responsible for seven-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

NON-STORM WATER DISCHARGES

Non-storm water discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents.

DE-WATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

RETENTION OF RECORDS

In accordance with Part IV.F of the General Permit GARI00002, the Department will retain all records related to the implementation of this ESPCP for the duration of the project.

SEDIMENT STORAGE

The site has a total disturbed area of 17.28 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

(Customize the following table as necessary. All outfalls must be listed in this table. Other sediment storage BMP's may be added or substituted for the four given. For each outfall, the table must include: total drainage area, disturbed area, required sediment storage volume (based on the total drainage area), total storage volume provided, and the individual BMP storage volume should add up to at least the required minimum volume. Account for all drainage that leaves the site by sheet flow in the bottom row. The sediment volume per foot of silt fence given below is a typical average based on the project side slopes averaging 3:1, and the average is site specific. Note that silt fence is not installed primarily to store sediment, and any storage volume is only a consequence of its installation.)

Outfall ID	Total Drainage Area	Disturbed Area	Required Sediment Storage Volume	Total Storage Provided	sediment basin		check dam		inlet sediment traps	
	acres	acres	cu yds	cu yds	pond #	total volume	# of devices	total volume	# of devices	total volume
1	0.2	0.05	13.4	18.96296			1	18.96296		
2	2.36	1.28	156.12	222.716			22	222.716		
3	2.25	1.55	150.75	139.141			15	139.141		
4	4.61	3.08	308.87	263.2099			26	263.2099		
5	1.21	0.85	81.07	182.2222			18	182.2222		
6	1.2	0.37	80.4	101.2346			10	101.2346		
7	6.86	3.19	213.73	101.2346			10	101.2346		
8	0.81	0.81	54.27	77.05674			12	77.05674		
9	0.48	0.48	32.16	24.67593			4	24.67593		
10	0.17	0.17	11.39	24.67593			4	24.67593		
11	1.13	0.29	19.43	53.66582			8	53.66582		
12	0.29	0.29	19.43	47.68913			7	47.68913		
13	0.32	0.32	21.44	44.94976			7	44.94976		
14	0.33	0.33	22.11	103.8487			14	103.8487		
15	0.6	0.47	31.49	103.8487			14	103.8487		
Sheetflow	3.75	3.75	251.25	318.52						

In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

(If the total storage volume provided is less than the required sediment storage volume for a particular outfall basin drainage area or the total sheet flow drainage area, the design professional must provide a detailed explanation stating how the area downstream of the outfall or sheet flow is protected in the absence of the required sediment storage volume.)

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS

Alternative BMPs are not used on this project. Silt Gates are used on this project as additional BMPs at pipe inlets and are not being used in place of or as a substitute for other conventional BMPs. Temporary check dams are used in ditches to provide interim stabilization and flow velocity reduction. The stability of the site is maintained with other conventional BMPs as shown on the plans. This ESPCP would be fully compliant with permit requirements if the silt gates were removed and as a result are not considered alternative BMPs when used on this project. The silt gates help to prevent pipe clogging during construction that can result from the ingestion of sediments and other large debris like riprap, sand bags, roadway debris and other construction materials that when combined with sediments easily clog roadway drainage pipes. Sediment stored by silt gates is not included in the required minimum sediment storage volume or shown in the sediment storage table.

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 6/ROAD DESIGN
ESPC GENERAL NOTES
SR20 @ SR108
DRAWING No. 51-2

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

STREAM BUFFER ENCROACHMENT

Stream Buffers (are/are not) impacted by this project.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

Name or Number of Stream or other Water Body Type	Location of Buffered Streams and State Waters **			Stream Type (Warm/Cold Water) *	Buffer Impacted? (Yes/No)	Buffer Variance Required? (Yes/No)
	Stream Alignment	Begin Station and Offset	End Station and Offset			
STREAM 1	SR20	159+91.87 RT	155+33 RT	WARM	YES	YES
(Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts.)						

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's stream buffer variance, this shall be noted in the buffer-variance-required column.

* Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.
** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the Individual BMP sheets.

MONITORING GENERAL NOTES:

The total site size is X.XX acres. Representative sampling may be utilized on this project.

The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that representative sampling is valid for the duration of the project. The table below shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative monitored features are identified in the table below.

SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Monitored Feature	Location (station and offset)	Name of Receiving Water.	Applicable Construction Stage for Monitoring	Sampling Type (Outfall or Receiving Water)	Drainage Area (or the receiving water (sq mi)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (outfall monitoring only)	Allowable NTU Increase (for receiving water)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (rise/run)	Soil Erosion Index	Alternate Outfall Drainage Basins
PRIMARY	153+50 RT	SWEETWATER CR	1-3	OUTFALL	4.33	1.55	WARM	50		STREAM 1					
ALTER	51+75 RT	KNOX CREEK	4-6	OUTFALL	2.97	0.37	WARM	50							

(Note that outfall monitoring requires one sample per monitoring event while receiving-water monitoring requires a pair of samples, one sample upstream and one sample downstream, per monitoring event. The italicized example information in the table represents the minimum number of monitored features for representative sampling and is to be replaced with site-specific information. Alternate monitored features are optional. According to the EPD, additional monitoring sites may be required depending on significant changes during the project.)

The primary monitored features specified should be used as the initial sampling locations. An alternate monitored feature may be used if additional sampling is required or to replace a primary monitored feature that is no longer located within the active phase of construction.

MONITORING SAMPLING METHODS & PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and Procedures.

READY MIX CHUTE WASH DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down water pit that includes the following: (1) a location away from any storm drain, stream or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 6/ROAD DESIGN
ESPC GENERAL NOTES
SR20 @ SR108

DRAWING No. 51-3

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: MOUNTAIN DISTRICT

Project Name: STP00-0012-01(112) Address: SR 20 @ SR108

City/County: CHEROKEE Date on Plans:

Plan Page #	Included Y / N		
51-3	Y	1.	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
50-1	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional.
50-1	Y	3.	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-1	Y	4.	Provide name, address and phone number of primary permittee.
53-1		5.	Note total and disturbed acreage of the project or phase under construction.
50-1	Y	6.	Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
50-1	Y	7.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
50-1	Y	8.	Graphic scale and north arrow.
53-1		9.	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours:	USGS 1" : 2000' Topographical Sheets
Proposed Contours:	1" : 400' Centerline Profile

53-1		10.	Delineation and acreage of contributing drainage basins on the project site.
54-1		11.	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
54-1		12.	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
55-1		13.	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
54-1		14.	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-1	Y	15.	Soil series for the project site and their delineation.
51-1		16.	Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
51-1		17.	Any construction activity which discharges storm water into an impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III.C. of the Permit. Include the completed Appendix I listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.
	N/A	18.	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 18 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.
55-1		19.	Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.
50-1	Y	20.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
54-1		21.	The limits of disturbance for each phase of construction.
51-1		22.	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written rationale explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls.
51-1	Y	23.	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission).
54-1	Y	24.	Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.
51-1	Y	25.	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.

Plan Page #	Included Y / N		
51-1	Y	26.	Provide BMPs for the remediation of all petroleum spills and leaks.
52-1	Y	27.	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
51-1	Y	28.	Description of the nature of construction activity.
51-1	Y	29.	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs.
51-1	Y	30.	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-1	Y	31.	Description of the practices that will be used to reduce the pollutants in storm water discharges.
51-1	Y	32.	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
50-1	Y	33.	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
50-1	Y	34.	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 14 of the permit.
50-1	Y	35.	Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G.2.d. of the state general permit.
53-1		36.	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-1	Y	37.	Indication that non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.
51-1	Y	38.	Indication that the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.
51-1	Y	39.	Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.
51-1	Y	40.	Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
51-1	Y	41.	Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed.
51-1	Y	42.	Provide complete requirements of inspections and record keeping by the primary permittee.
51-1	Y	43.	Provide complete requirements of sampling frequency and reporting of sampling results.
51-1	Y	44.	Provide complete details for retention of records as per Part IV.F. of the permit.
51-1		45.	Description of analytical methods to be used to collect and analyze the samples from each location.
51-1		46.	Appendix B rationale for outfall sampling points where applicable.
51-1	Y	47.	Clearly note statement in bold letters-"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities."
51-1	Y	48.	Clearly note maintenance statement in bold letters -"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-1	Y	49.	Clearly note the statement in bold letters -"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
52-1	Y	50.	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-1	Y	51.	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Effective January 1, 2013

GSWCC

1/5/2009 GPLN

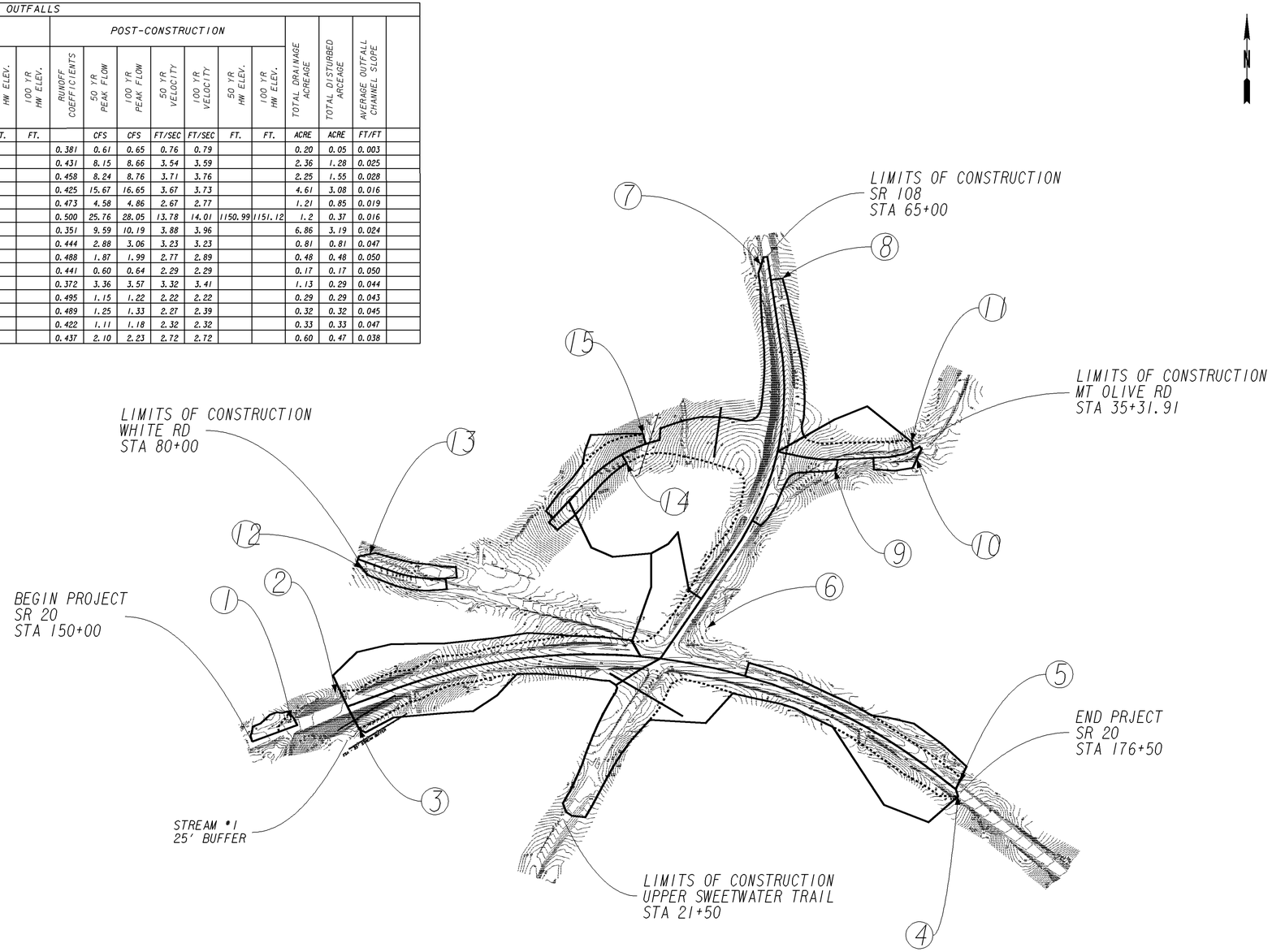
GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 6/ROAD DESIGN
ESPC GENERAL NOTES
SR20 @ SR108
DRAWING No. 51-4

ESPCP DRAINAGE OUTFALLS

OUTFALL ID	LOCATION	OFFSET	PIPE (if applicable)			PRE-CONSTRUCTION							POST-CONSTRUCTION							TOTAL DRAINAGE ACREAGE	TOTAL DISTURBED ACREAGE	AVERAGE OUTFALL CHANNEL SLOPE
			STRUCTURE ID	SKEW ANGLE	SIZE	RUNOFF COEFFICIENTS	50 YR PEAK FLOW	100 YR PEAK FLOW	50 YR VELOCITY	100 YR VELOCITY	50 YR HW ELEV.	100 YR HW ELEV.	RUNOFF COEFFICIENTS	50 YR PEAK FLOW	100 YR PEAK FLOW	50 YR VELOCITY	100 YR VELOCITY	50 YR HW ELEV.	100 YR HW ELEV.			
					IN.		CFS	CFS	FT/SEC	FT/SEC	FT.	FT.		CFS	CFS	FT/SEC	FT/SEC	FT.	FT.	ACRE	ACRE	FT/FT
1	151+50 LT	27				0.381	0.61	0.65	1.57	1.60			0.381	0.61	0.65	0.76	0.79			0.20	0.05	0.003
2	153+50 LT	56				0.437	8.24	8.76	4.78	4.86			0.431	8.15	8.66	3.54	3.59			2.36	1.28	0.025
3	153+50 RT	88				0.442	7.95	8.45	5.10	5.20			0.458	8.24	8.76	3.71	3.76			2.25	1.55	0.028
4	176+00 RT	33				0.394	14.55	15.46	3.93	4.00			0.425	15.67	16.65	3.67	3.73			4.61	3.08	0.016
5	176+00 LT	32				0.462	4.47	4.75	3.06	3.13			0.473	4.58	4.86	2.67	2.77			1.21	0.85	0.019
6	XX	35	7	84.9°	36	0.500	—	—	—	—			0.500	25.76	28.05	13.78	14.01	1150.99	1151.12	1.2	0.37	0.016
7	XX	38				0.338	9.22	9.80	3.99	4.06			0.351	9.59	10.19	3.88	3.96			6.86	3.19	0.024
8	64+00 RT	40				0.436	2.83	3.00	4.13	4.20			0.444	2.88	3.06	3.23	3.23			0.81	0.81	0.047
9	32+00 RT	37				0.598	0.64	0.68	2.43	2.43			0.488	1.87	1.99	2.77	2.89			0.48	0.48	0.050
10	34+50 RT	33				0.441	0.60	0.64	2.57	2.62			0.441	0.60	0.64	2.29	2.29			0.17	0.17	0.050
11	34+85 LT	29				0.354	4.55	4.84	4.25	4.30			0.372	3.36	3.57	3.32	3.41			1.13	0.29	0.044
12	80+00 RT	26				0.582	0.49	0.52	2.16	2.24			0.495	1.15	1.22	2.22	2.22			0.29	0.29	0.043
13	80+00 LT	30				0.56	0.63	0.67	2.28	2.35			0.489	1.25	1.33	2.27	2.39			0.32	0.32	0.045
14	90+75 RT	34				N/A	N/A	N/A	N/A	N/A			0.422	1.11	1.18	2.32	2.32			0.33	0.33	0.047
15	91+60 LT	36				N/A	N/A	N/A	N/A	N/A			0.437	2.10	2.23	2.72	2.72			0.60	0.47	0.038



TOTAL DISTURBED AREA:
TOTAL PROJECT SIZE:

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

EROSION CONTROL DRAINAGE AREA MAP

DRAWING No. 53-1

1/5/2009 GPLN

2/7/2014 9:39:00 AM \\GDOT-DSNI\GOPLOT\QCF\d6_PDF_Out_mono_200dpi.qcf skldd C:\dgn\662650\662650Erosionl.prf

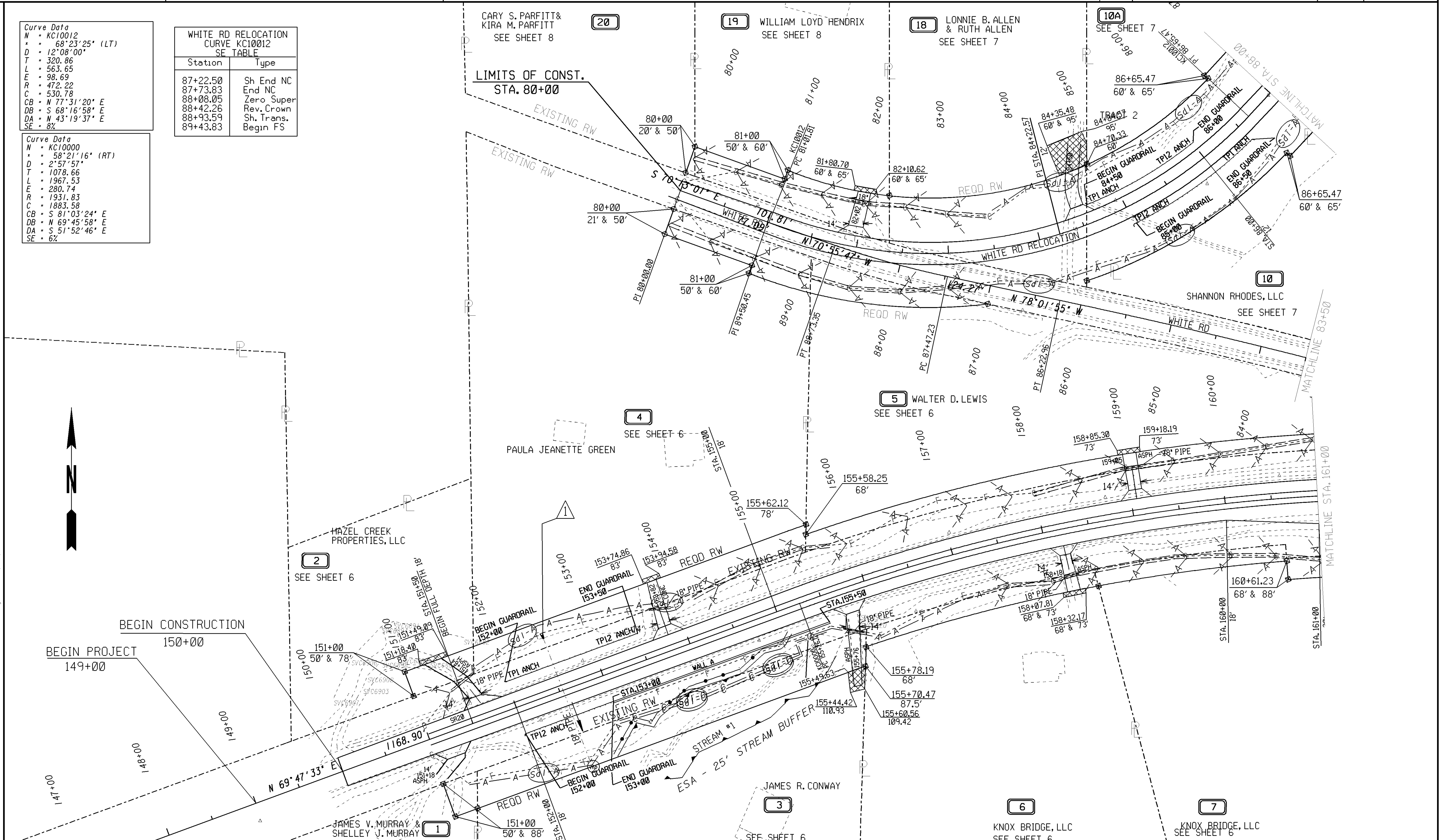
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

Curve Data
N = KC10012
Δ = 68°23'25" (LT)
D = 12°08'00"
T = 320.86
L = 563.65
E = 98.69
R = 472.22
C = 530.78
CB = N 77°31'20" E
DB = S 68°16'58" E
DA = N 43°19'37" E
SE = 8%

Curve Data
N = KC10000
Δ = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

WHITE RD RELOCATION CURVE KC10012 SE TABLE

Station	Type
87+22.50	Sh End NC
87+73.83	End NC
88+08.05	Zero Super
88+42.26	Rev. Crown
88+93.59	Sh. Trans.
89+43.83	Begin FS



CARY S. PARFITT & KIRA M. PARFITT
SEE SHEET 8
WILLIAM LOYD HENDRIX
SEE SHEET 8
LONNIE B. ALLEN & RUTH ALLEN
SEE SHEET 7
SEE SHEET 7
LIMITS OF CONST.
STA. 80+00
EXISTING RW
REQD RW
WHITE RD RELOCATION
WHITE RD
SHANNON RHODES, LLC
SEE SHEET 7
MATCHLINE STA. 83+50
MATCHLINE STA. 88+00
WALTER D. LEWIS
SEE SHEET 6
SEE SHEET 6
PAULA JEANETTE GREEN
HAZEL CREEK PROPERTIES, LLC
SEE SHEET 6
BEGIN CONSTRUCTION
150+00
BEGIN PROJECT
149+00
N 69°47'33" E
1168.90'
ESA - 25' STREAM BUFFER
STREAM #1
JAMES R. CONWAY
SEE SHEET 6
JAMES V. MURRAY & SHELLEY J. MURRAY
KNOX BRIDGE, LLC
SEE SHEET 6
KNOX BRIDGE, LLC
SEE SHEET 6
MATCHLINE STA. 161+00
N

REVISION DATES		

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

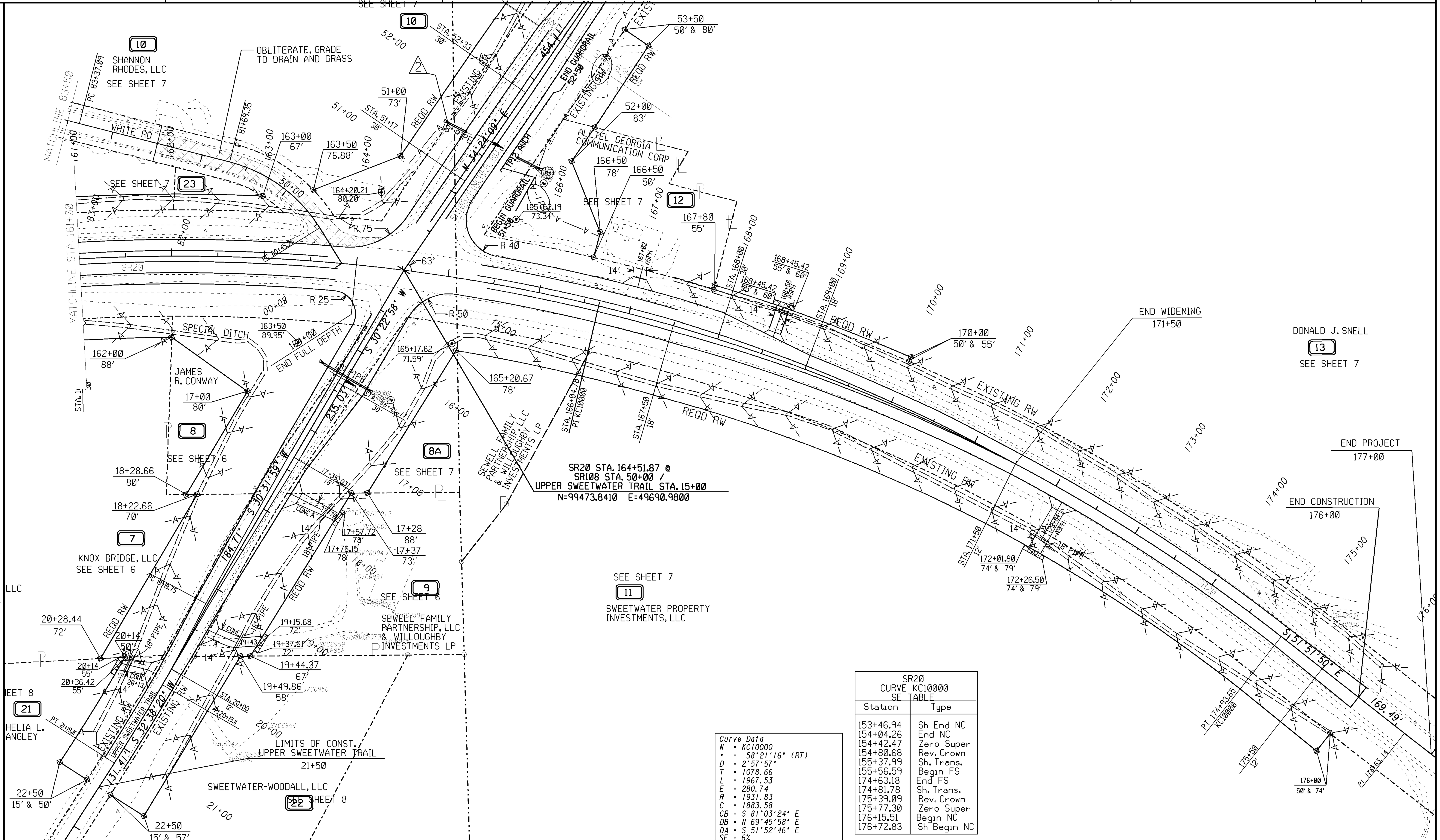
BMP LOCATION DETAILS

SR20
WHITE RD RELOCATION

DRAWING No. 54-1

2/7/2014 skldd | Fri Feb 07 09:39:00 2014 | \\gdot-dsnl\gocfg\resources\Gdot-2012.tbl | C:\dgn\662650\662650Erosion2.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



SEE SHEET 7
10
SHANNON RHODES, LLC
SEE SHEET 7
OBLITERATE, GRADE TO DRAIN AND GRASS
WHITE RD
MATCHLINE 83+50
MATCHLINE STA. 161+00
SEE SHEET 7
23
ALLTEL GEORGIA COMMUNICATION CORP
12
END GUARDRAIL
BEGIN GUARDRAIL
REQD RW
EXISTING RW
SR20
SPECIAL DITCH
END FULL DEPTH
JAMES R. CONWAY
8
SEE SHEET 6
8A
SEE SHEET 7
SEWELL FAMILY PARTNERSHIP, LLC & WILLOUGHBY INVESTMENTS LP
SR20 STA. 164+51.87 @
SR108 STA. 50+00 /
UPPER SWEETWATER TRAIL STA. 15+00
N=99473.8410 E=49690.9800
END WIDENING
171+50
DONALD J. SNELL
13
SEE SHEET 7
END PROJECT
177+00
END CONSTRUCTION
176+00
7
KNOX BRIDGE, LLC
SEE SHEET 6
9
SEE SHEET 6
SEWELL FAMILY PARTNERSHIP, LLC & WILLOUGHBY INVESTMENTS LP
SEE SHEET 7
11
SWEETWATER PROPERTY INVESTMENTS, LLC
21
SHELIA L. LANGLEY
LIMITS OF CONST. UPPER SWEETWATER TRAIL
21+50
SWEETWATER-WOODALL, LLC
22
SEE SHEET 8
S 51°51'50" E
169.49'

SR20 CURVE KC10000 SE TABLE	
Station	Type
153+46.94	Sh End NC
154+04.26	End NC
154+42.47	Zero Super
154+80.68	Rev. Crown
155+37.99	Sh. Trans.
155+56.59	Begin FS
174+63.18	End FS
174+81.78	Sh. Trans.
175+39.09	Rev. Crown
175+77.30	Zero Super
176+15.51	Begin NC
176+72.83	Sh Begin NC

Curve Data
N = KC10000
Δ = 58°21'16" (RT)
D = 2°57'57"
T = 1078.66
L = 1967.53
E = 280.74
R = 1931.83
C = 1883.58
CB = S 81°03'24" E
DB = N 69°45'58" E
DA = S 51°52'46" E
SE = 6%

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

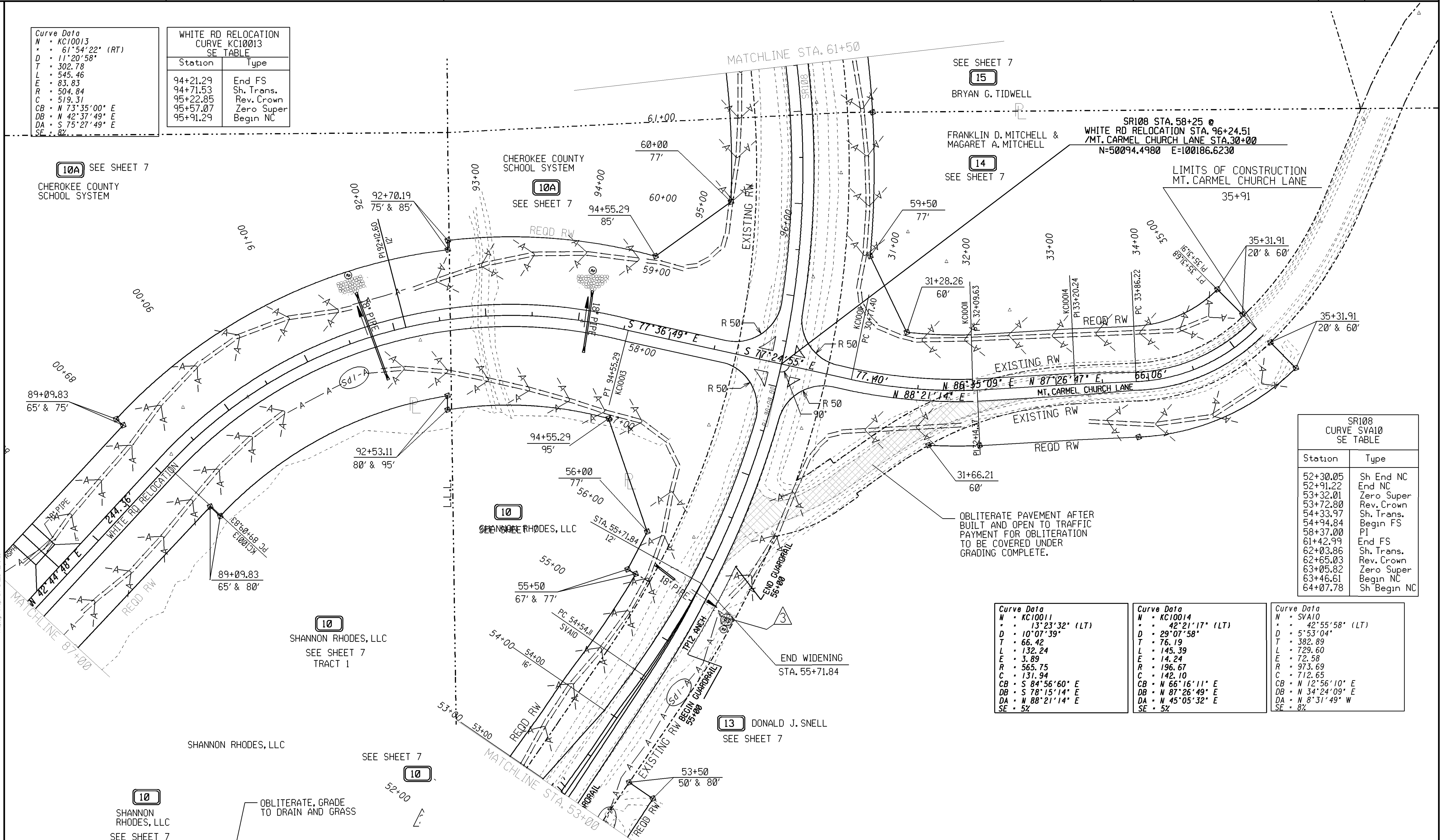
BMP LOCATION DETAILS

SR20 AND SR108
UPPER SWEETWATER TRAIL

DRAWING No. 54-2

1/5/2009 GPLN

2/7/2014 skldd | Fri Feb 07 09:38:58 2014 | \\gdot-dsnl\gocfg\resources\Gdot-2012.tbl | C:\dgn\662650\662650Erosion3.dgn | STATE: GA | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS



Curve Data

N	= KC10013
*	= 61°54'22" (RT)
D	= 11°20'58"
T	= 302.78
L	= 545.46
E	= 83.83
R	= 504.84
C	= 519.31
CB	= N 73°35'00" E
DB	= N 42°37'49" E
DA	= S 75°27'49" E
SE	= 8%

WHITE RD RELOCATION
CURVE KC10013
SE TABLE

Station	Type
94+21.29	End FS
94+71.53	Sh. Trans.
95+22.85	Rev. Crown
95+57.07	Zero Super
95+91.29	Begin NC

SR108
CURVE SVA10
SE TABLE

Station	Type
52+30.05	Sh End NC
52+91.22	End NC
53+32.01	Zero Super
53+72.80	Rev. Crown
54+33.97	Sh. Trans.
54+94.84	Begin FS
58+37.00	PI
61+42.99	End FS
62+03.86	Sh. Trans.
62+65.03	Rev. Crown
63+05.82	Zero Super
63+46.61	Begin NC
64+07.78	Sh Begin NC

Curve Data

N	= KC10011
*	= 13°23'32" (LT)
D	= 10°07'39"
T	= 66.42
L	= 132.24
E	= 3.89
R	= 565.75
C	= 131.94
CB	= S 84°56'60" E
DB	= S 78°15'14" E
DA	= N 88°21'14" E
SE	= 5%

Curve Data

N	= KC10014
*	= 42°21'17" (LT)
D	= 29°07'58"
T	= 76.19
L	= 145.39
E	= 14.24
R	= 196.67
C	= 142.10
CB	= N 66°16'11" E
DB	= N 87°26'49" E
DA	= N 45°05'32" E
SE	= 5%

Curve Data

N	= SVA10
*	= 42°55'58" (LT)
D	= 5°53'04"
T	= 382.89
L	= 729.60
E	= 72.58
R	= 973.69
C	= 712.65
CB	= N 12°56'10" E
DB	= N 34°24'09" E
DA	= N 8°31'49" W
SE	= 8%

GEORGIA DEPARTMENT OF TRANSPORTATION

SCALE IN FEET: 0 50 100 200

REVISION DATES

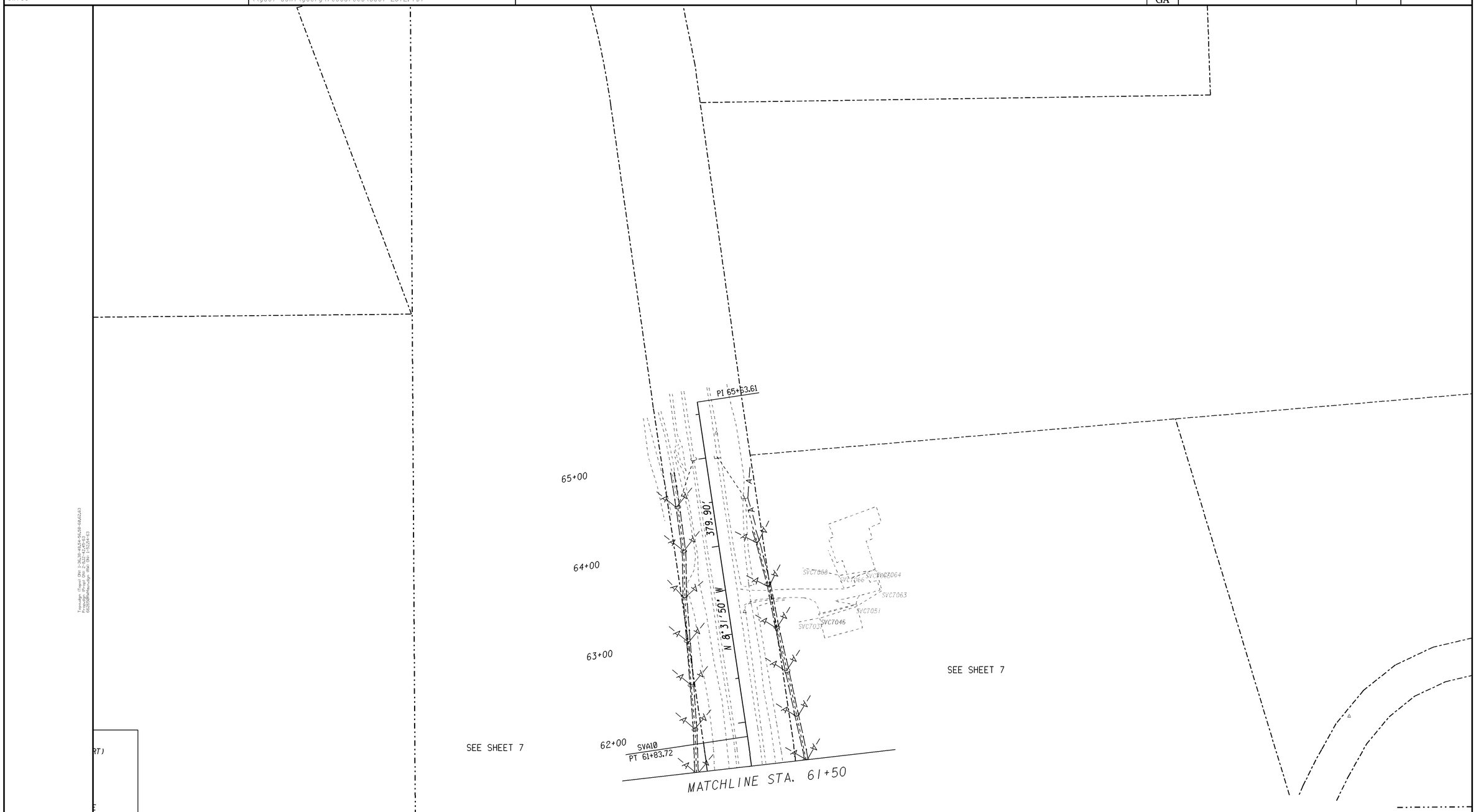
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

BMP LOCATION DETAILS

SR108 @ WHITE RD RELOC
MT. OLIVE RD

DRAWING No. 54-3

1/5/2009 GPLN



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX ROAD DESIGN

BMP LOCATION DETAILS

SR108

DRAWING No. 54-4

1/5/2009 GPLN