



Andy Beshear  
GOVERNOR

## TRANSPORTATION CABINET

200 Mero Street  
Frankfort, Kentucky 40601

Jim Gray  
SECRETARY

May 23, 2023

CALL NO. 208  
CONTRACT ID NO. 231322  
ADDENDUM # 1

Subject: Bullitt-Hardin Counties, 121GR23D022-NHPP STPBRO  
Letting May 25, 2023

- (1) Revised - Proposal Notes - Pages 22-26 of 459
- (2) Revised - Summary Sheets - Pages 27-31 of 459
- (3) Added - Summary Sheets - Pages 31a-31c of 459
- (4) Revised - Typical Sections - Pages 35-36 of 459
- (5) Revised - Plan Sheets - Page 63, 66, 69, 84-85 of 459
- (6) Revised - Cross Sections - Pages 86-235a of 459
- (7) Revised - Super Elevation Report - Pages 274-280 of 459
- (8) Added - Special Notes - Pages 288a-288f of 459
- (9) Revised - Material Summary - Pages 401-404a of 459
- (10) Revised - Proposal Bid Items - Pages 459-459a of 459
- (11) Omit Proposal Page 281 of 459

\*Revised Plans & Cross Sections available in Project Related Information

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

Rachel Mills, P.E.  
Director  
Division of Construction Procurement

RM:mr  
Enclosures

REFERENCES

I-65 - BULLITT COUNTY

PAGE 1 OF 1

1. KENTUCKY TRANSPORTATION CABINET, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)  
- CURRENT EDITION WITH REVISIONS.
3. APPLICABLE KENTUCKY DEPARTMENT OF HIGHWAYS SUPPLEMENTAL SPECIFICATIONS:

SPCL. NOTE	TYPICAL SECTION DIMENSIONS
SPCL. NOTE	BEFORE YOU DIG
SPCL. NOTE	FIXED COMPLETION DATE AND LIQUIDATED DAMAGES
SPCL. NOTE	EXPERIMENTAL KYCT AND HAMBURG TESTING
SPCL. NOTE	NON-TRACKING TACK COAT
SPCL. NOTE	TRAFFIC QUEUE PROTECTION VEHICLE
SPCL. NOTE	PORTABLE QUEUE WARNING ALERT SYSTEM
SPCL. NOTE	GUARDRAIL DELIVERY VERIFICATION SHEET
SPCL. NOTE	LONGITUDINAL PAVEMENT JOINT ADHESIVE
SPCL. NOTE	PAVER MOUNTED TEMPERATURE PROFILES
SPCL. NOTE	CONCRETE PAVEMENT JOINT AND RANDOM CRACK SEALING
SPCL. NOTE	DIAMOND GRINDING WASTE
SPCL. NOTE	HTCMEDIAN BARRIER INSTALLATION AND LAYOUT
SPCL. NOTE	HIGH TENSION CABLE-ROPE MEDIAN BARRIER



**GENERAL NOTES**  
**I-65 – BULLITT**  
**PAGE 1 OF 4**

**I. GENERAL**

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, current edition, Supplemental Specifications, any applicable Special Provisions, and applicable Standard and Sepia Drawings, except as hereafter specified. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for the following work:

- (1) Maintain and Control Traffic;
- (2) Remove and reset or replace guardrail, guardrail end treatments, and crash cushions at the locations listed and/or as directed by the Engineer;
- (3) Pavement Removal;
- (4) Asphalt Pavement;
- (5) Inlaid Pavement Markers; and
- (6) All other work specified as part of this contract.

**II. MATERIALS**

Except as specified in these notes or on the drawings, all materials will be according to the Standard Specifications, current edition, and applicable Special Provisions and Special Notes. The Department will sample and test all materials according to Department's Sampling Manual and the Contractor will have the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in these notes.

**A. Maintain and Control Traffic**

See Traffic Control Plan.

**B. Crushed Stone Base**

DGA may not be furnished in lieu of Crushed Stone Base.

**C. Pavement Markings**

Use Durable Tape and Extruded Thermoplastic Marking.

**III. CONSTRUCTION METHODS**

**A. Maintain and Control Traffic**

See Traffic Control Plan and Standard Specifications.

**B. Site Preparation**

Be responsible for all site preparation. Do not disturb existing signs unless noted on the plans. This item will include, but is not limited to, incidental excavation and backfilling; removal of all obstructions or any other items; disposal of materials; sweeping and removal of debris; shoulder preparation and restoration, temporary and permanent erosion and pollution control; and all incidentals. Site preparation will be only as approved or directed by the Engineer. Other than the bid items listed, no direct payment will be made for site preparation, but will be incidental to the other items of work.

**C. Disposal of Waste**

Dispose of all cuttings, debris, and other waste off the right-of-way at approved sites obtained by the Contractor at no additional cost to the Department. The Contractor will be responsible for obtaining any necessary permits for this work. Temporary openings in the right of way fence for direct access to waste sites off the right of way or for access to other public roads will not be allowed. No separate payment will be made for the disposal of waste and debris from the project or obtaining the necessary permits but will be incidental to the other items of the work.

**GENERAL NOTES**  
**I-65 – BULLITT**  
**PAGE 2 OF 4**

**D. Final Dressing, Clean Up, and Seeding and Protection**

After all work is completed, completely remove all debris from the job site. Perform Class A Final Dressing on all disturbed areas. Sow disturbed earthen areas with Seed Mixture No. 1. These items are incidental to other items in the contract. Payment, however, will be allowed for erosion control items associated with construction and removal of the temporary crossovers. Disturbed areas for the crossover are to be minimized and limited to the disturbed limits shown on the plans or as approved by the Engineer.

**E. Guardrail**

Remove and replace guardrail and guardrail end treatments listed in this proposal and/or as directed by the Engineer. Guardrail, end treatments, terminal sections, and crash cushions are listed by mile points and quantities are approximate only. Actual locations will be determined by the Engineer at the time of construction. Grade and reshape shoulders to proper template for new guardrail and end treatment. Utilize CSB for embankment when required for new end treatments. Remove any existing guardrail with a lane closure in place. Do not leave the area unprotected. After the guardrail is removed, a shoulder closure shall remain in place until the guardrail is replaced in that area. To minimize safety hazards, guardrail removal is to be performed at the latest practical time prior to initiating the paving operation in an area and re-installation is to be complete before northbound traffic is returned to the northbound side in phase 1 and before southbound traffic is returned to the southbound side in phase 2. If guardrail installation is not complete before traffic is shifted, liquidated damages will be charged as outlined in Section 108 of the current Standard Specifications.

The Contractor shall deliver existing salvaged guardrail system materials to the Central Sign Shop and Recycle Center in Frankfort, KY (502-564-8187) between the hours of 8:00 AM and 3:00 PM, Monday through Friday, and shall be neatly stacked in accordance with section 719.03.07 of the standard specifications. There is a guardrail delivery verification sheet which must be completed. The Contractor, Engineer, and Central Sign/Guardrail Center representative must all sign off on this sheet before payment may be made.

Note that the cable-rope barrier system in the median is not applicable to the above.

**F. Pavement Striping and Pavement Markers**

Permanent striping will be in accordance with Section 714 and temporary striping will be in accordance with Section 112, except that:

- (1) Striping will be 6-inch width (12-inch width for interchange gore areas);
- (2) Permanent and/or temporary striping will be in place before a lane is opened to traffic; and
- (3) Permanent striping will be Durable Tape Type 1 and Extruded Thermoplastic Markings.

**G. On-Site Inspection**

Each Contractor submitting a bid for this work will make a thorough inspection of the site prior to submitting a bid and will thoroughly familiarize themselves with existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

**H. Caution**

Information shown on the drawings and in this proposal and the types and quantities of work listed are not to be taken as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw their own conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation if the conditions encountered are not in accordance with the information above.

**GENERAL NOTES**  
**I-65 – BULLITT**  
**PAGE 3 OF 4**

**I. Utility Clearance**

It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, if it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities.

**IV. METHOD OF MEASUREMENT**

**A. Maintain and Control Traffic**

See Traffic Control Plan.

**B. Site Preparation**

Other than the bid items listed, site preparation will not be measured for payment, but will be incidental to the other items of work.

**C. Crushed Stone Base**

CSB used for CSB base and CSB wedges will be measured for payment.

**D. Inlaid Pavement Markers and Permanent Striping**

Permanent striping is measured per linear foot. Inlaid Pavement Markers are measured as each.

**V. BASIS OF PAYMENT**

No direct payment will be made other than for the bid items listed. All other items required to complete the construction will be incidental to the bid items listed. Existing signs (not to be disturbed) that are damaged by the Contractor will be replaced by the Contractor at his expense.

**A. Maintain and Control Traffic**

See Traffic Control Plan.

**B. Site Preparation**

Other than the bid items listed, no direct payment will be allowed for site preparation, but will be incidental to the other items of work.

**C. Crushed Stone Base**

See Section 302 of the Standard Specifications.

**D. Inlaid Pavement Markers and Permanent Striping**

See Standard Specifications and Traffic Control Plan.

**E. Lane Closures**

Contrary to Section 112, lane closures will not be measured for payment but will be incidental to the bid item "Maintain and Control Traffic". Arrow boards, portable message boards, and signs shall be paid for one time regardless of how many times they are moved.

**VI. MISCELLANEOUS**

- A. The dimensions shown on the typical sections for pavement and shoulder widths and thickness are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified in the Proposal.
- B. The Contractor is advised that locations of low wires crossing the roadway exist. If any utility is impacted, it will be the Contractor's responsibility to contact the affected utility and cover any costs associated with the impact.
- C. Guardrail, End Treatments, Crash Cushions, and Terminal Sections to be replaced are listed by mileposts. Exact placement to be approved by the Engineer.

**GENERAL NOTES**  
**I-65 – BULLITT**  
**PAGE 4 OF 4**

- D. Any signs and any light poles that are damaged during construction are to be replaced at the Contractor's expense.
- E. Pavement rideability requirements in accordance with Section 410 Category A of the standard specifications shall apply on this project.
- F. Pavement rideability requirements shall be waived for the KY 61 interchange ramps.
- G. The Department will accept the compaction of asphalt mixtures furnished for the driving lanes at one inch or greater on this project by Option A according to subsections 402 and 403 of the Standard Specifications. The Department will accept the compaction of all other mixtures by Option B.
- H. Contrary to Standard Specifications Section 105.11 The Contractor shall be responsible for the repair of any potholes and pavement that becomes detrimental or hazardous to the traveling public during construction. Areas needing repair will be at the discretion of the Engineer. Repair or reconstruction of pavement due to maintenance of traffic will be paid for with the pavement construction bid items in the contract. Pavement removal will be paid for using the bid item REMOVE PCC PAVEMENT.
- I. No tree cutting is allowed nor should it be necessary.
- J. Depth of existing base material of existing pavement is not reflected on the cross sections.
- K. Delineators shall meet the requirements of Section 830 and 838 of the Standard Specifications. Delineators shall be placed in accordance with Section 3F of the M.U.T.C.D., current edition and Kentucky Standard Drawings, current edition.
- L. Pavement production facilities cannot be located on the right of way.
- M. Southbound I-65 shall be chemically stabilized in areas where existing stabilization is not present, approximately MP 106.5 to MP 110.7. This location is approximate, actual limits shall be as directed by the Engineer. In areas being stabilized, approximately 1 inch of existing DGA shall be left in place. Mix of the existing shale and DGA with 4% lime, set for 24-48 hours and then mix with 6% cement. The lime and some of the DGA will raise the pH and allow the cement to cure properly. If excessive swell occurs, the aggregate layer may be reduced, as directed by the Engineer.
- N. Locations for Ditching are shown on the plan sheets. These locations are approximate and shall be as directed by the Engineer.
- O. Emergency Blister Lane locations are shown on the plan sheets. These locations are approximate and shall be as directed by the Engineer.
- P. The southbound asphalt surface of travel lanes and inside shoulder shall be paved in echelon.
- Q. Cleaning and resealing of longitudinal, transverse, and random cracking shall be incidental to bid item PCC Diamond Grinding.
- R. Removal of temporary crossovers and grading of median shall be incidental to the bid item "Crossover". This includes the removal of the existing crossover being used for Crossover #1.
- S. The High Tension Cable-Rope Barrier from approximately MP 109.25 to MP 111.1 will be removed from the Northbound direction and relocated to the Southbound direction. Any anchors attaching to the existing cable barrier system shall be per the existing manufacture specifications. The new HTC Barrier System shall meet all current specifications. The Department will supply the Contractor with record geotechnical information for Contractor to supply manufacturer of Cable Barrier System for System Design. Shall more information be needed for design than what Record Geotechnical Reports convey, the Contractor shall be responsible for obtaining more information or the Cable Barrier System design shall be designed for worst case scenario soil. The cost of this work shall be incidental to the bid items for HIGH TENSION CABLE-ROPE BARRIER and END ANCHORS.

GENERAL SUMMARY						
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00						
BID CODE	ITEM	UNIT	NOTES	QUANTITIES		
				I-65	KY 61	TOTALS
00003	CRUSHED STONE BASE	TON		236,668		236,668
00008	CEMENT STABILIZED ROADBED	SQYD		137,984		137,984
00013	LIME STABILIZED ROADBED	SQYD		137,984		137,984
00014	LIME	TON		1,788		1,788
00078	CRUSHED AGGREGATE NO. 2	TON	11	79		79
00100	ASPHALT SEAL AGGREGATE	TON		936		936
00103	ASPHALT SEAL COAT	TON		112		112
00208	CL4 ASPH BASE 1.50D PG64-22	TON		64,888		64,888
00214	CL3 ASPH BASE 1.00D PG64-22	TON		46,493		46,493
00217	CL4 ASPH BASE 1.00D PG64-22	TON		49,682		49,682
00219	CL4 ASPH BASE 1.00D PG76-22	TON		48,895		48,895
00339	CL3 ASPH SURF 0.38D PG64-22	TON		9,671		9,671
00342	CL4 ASPH SURF 0.38A PG76-22	TON		23,701		23,701
00358	ASPHALT CURING SEAL	TON		276		276
01006	PERFORATED PIPE EDGE DRAIN - 6 IN	LF	11	24,127		24,127
01011	NON-PERFORATED PIPE - 6 IN	LF	11	751		751
01033	PERF PIPE HEADWALL TY 4-6 IN	EACH	11	79		79
01891	ISLAND HEADER CURB TYPE 2	LF		164		164
01982	DELINEATOR FOR GUARDRAIL M/W	EACH		75		75
01983	DELINEATOR FOR GUARDRAIL M/Y	EACH		17		17
01985	DELINEATOR FOR BARRIER - YELLOW	EACH		748		748
02003	RELOCATE TEMP CONC BARRIER	LF		63,360		63,360
02058	REMOVE PCC PAVEMENT	SQYD		400,333		400,333
02060	PCC PAVEMENT DIAMOND GRINDING	SQYD			11,299	11,299
02159	TEMP DITCH	LF		15,840		15,840
02160	CLEAN TEMP DITCH	LF		7,920		7,920
02200	ROADWAY EXCAVATION	CUYD	9	63,833		63,833
02237	DITCHING	LF		8,235		8,235
02351	GUARDRAIL-STEEL W BEAM-S FACE	LF		5,377		5,377
02352	GUARDRAIL-STEEL W BEAM-D FACE	LF		325		325
02360	GUARDRAIL TERMINAL SECTION NO 1	EACH		3		3
02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH		6		6
02365	CRASH CUSHION TYPE IX-A	EACH		3		3
02367	GUARDRAIL END TREATMENT TYPE 1	EACH		10		10
02369	GUARDRAIL END TREATMENT TYPE 2A	EACH		11		11
02381	REMOVE GUARDRAIL	LF		6,377		6,377
02387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	EACH		1		1
02397	TEMP GUARDRAIL	LF		2,000		2,000
02542	CEMENT	TON		2,682		2,682
02562	TEMPORARY SIGNS	SQFT	3	2,242		2,242

GENERAL SUMMARY						
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00						
BID CODE	ITEM	UNIT	NOTES	QUANTITIES		
				I-65	KY 61	TOTALS
02568	MOBILIZATION	LS		1		1
02569	DEMOBILIZATION	LS		1		1
02650	MAINTAIN AND CONTROL TRAFFIC	LS		1		1
02655	CROSSOVER (CROSSOVER #1)	EACH		1		1
02655	CROSSOVER (CROSSOVER #2)	EACH		1		1
02655	CROSSOVER (CROSSOVER #3)	EACH		1		1
02671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	3	2	1	3
02696	SHOULDER RUMBLE STRIPS	LF		113,541		113,541
02701	TEMP SILT FENCE	LF		15,840		15,840
02702	SAND FOR BLOTTER	TON		345		345
02703	SILT TRAP TYPE A	EACH		22		22
02704	SILT TRAP TYPE B	EACH		22		22
02705	SILT TRAP TYPE C	EACH		22		22
02706	CLEAN SILT TRAP TYPE A	EACH		22		22
02707	CLEAN SILT TRAP TYPE B	EACH		22		22
02808	CLEAN SILT TRAP TYPE C	EACH		22		22
02726	STAKING	LS		1		1
02775	ARROW PANEL	EACH	3	2		2
02898	RELOCATE CRASH CUSHION	EACH		2		2
03171	CONCRETE BARRIER WALL TYPE 9T	LF	3	33,889		33,889
04793	CONDUIT 1 1/4 INCH	LF	4	40		40
04795	CONDUIT 2 INCH	LF	4	75		75
04820	TRENCHING AND BACKFILLING	LF		115		115
04829	PIEZOELECTRIC SENSOR	EACH	4	12		12
04830	LOOP WIRE	LF		7,500		7,500
04895	LOOP SAW SLOT AND FILL	LF		675		675
05950	EROSION CONTROL BLANKET	SQYD		5,490		5,490
05952	TEMP MULCH	SQYD		70,400		70,400
05953	TEMP SEEDING AND PROTECTION	SQYD		52,800		52,800
05963	INITIAL FERTILIZER	TON		5		5
05964	MAINTENANCE FERTILIZER	TON		3		3
05985	SEEDING AND PROTECTION	SQYD		105,600		105,600
06401	FLEXIBLE DELINEATOR POST-M/W	EACH		356		356
06511	PAVE STRIPING-TEMP PAINT-6 IN	LF	3	295,654		295,654
06542	PAVE STRIPING-THERMO-6 IN W	LF		91,901		91,901
06543	PAVE STRIPING-THERMO-6 IN Y	LF		63,286		63,286
06546	PAVE STRIPING-THERMO-12 IN W	LF		2,380		2,380
06549	PAVE STRIPING-TEMP REM TAPE-B	LF	2	2,500		2,500
06550	PAVE STRIPING-TEMP REM TAPE-W	LF	2,8	79,580		79,580
06551	PAVE STRIPING-TEMP REM TAPE-Y	LF	2,8	63,814		63,814

GENERAL SUMMARY						
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00						
BID CODE	ITEM	UNIT	NOTES	QUANTITIES		
				I-65	KY 61	TOTALS
06556	PAVE STRIPING-DUR TY 1-6 IN W	LF	5,6	447	7,618	8,065
06557	PAVE STRIPING-DUR TY 1-6 IN Y	LF	5.6	298	6,270	6,568
06585	PAVEMENT MARKER TY IVA-MW TEMP	EACH		331		331
06586	PAVEMENT MARKER TY IVA-MY TEMP	EACH		192		192
06613	INLAID PAVEMENT MARKER-B W/R	EACH		1,506	7	1,513
06614	INLAID PAVEMENT MARKER-B Y/R	EACH			79	79
08903	CRASH CUSHION TYPE VI, CLASS BT	EACH	3	4		4
10020NS	FUEL ADJUSTMENT	DOLL		501,661		501,661
10030NS	ASPHALT ADJUSTMENT	DOLL		951,323		951,323
20071EC	JOINT ADHESIVE	LF		126,125		126,125
20191ED	OBJECT MARKER TYPE 3	EACH		10		10
20391NS835	ELECTRICAL JUNCTION BOX TYPE A	EACH	4	5		5
20411ED	LAW ENFORCEMENT OFFICER	HOURL		300		300
20432ES112	REMOVE CRASH CUSHION	EACH		3		3
23147EN	HIGH TENSION CABLE-ROPE BARRIER	LF	7	9,938		9,938
23148EN	END ANCHORS	EACH	7,10	9		9
23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	LF	6		126	126
24255EC	REMOVE CABLE GUARDRAIL BARRIER SYSTEM	LF	7	9,361		9,361
24640ED	OBJECT MARKER TYPE 1	EACH		3		3
24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT	SQFT		9,553,940		9,553,940
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON		271		271
25075EC	QUEUE PROTECTION VEHICLE	HOURL		720		720
25117EC	FURNISH QUEUE PROTECTION VEHICLE	MONTH		18		18
26136EC	PORTABLE QUEUE WARNING ALERT SYSTEM	MONTH		18		18
26137EC	QUEUE WARNING PCMS	MONTH		108		108
26138EC	QUEUE WARNING PORTABLE RADAR SENSORS	MONTH		108		108

NOTES:

- Quantities from all other summary sheets have been carried over and included in this General Summary Sheet.
- For traffic tapers at the ends of project.
- For maintenance of traffic.
- For replacing traffic data acquisition stations.
- For replacing striping on bridge over Pine Tavern Road.
- For replacing striping on KY 61 Interchange Ramps.
- For removing and reinstalling Cable Barrier System. See plans for locations.
- For temporary striping required on proposed surface asphalt.
- For excavation required outside of existing pavement edges to install proposed CSB Wedge.
- End Anchor to be installed on existing Cable Barrier at North End of Project to match manufacturer of existing Cable Barrier System. Existing Cable Barrier is assumed to be a Gibraltar Barrier System. Contractor to verify manufacturer of Existing Cable Barrier System.
- For Pavement Underdrains, see Pavement Underdrain Summary for locations.

PAVING AREAS					
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00					
BID CODE	ITEM	NOTES	DEPTH (inches)	SQUARE YARDS	
				I-65	US 61
00003	CRUSHED STONE BASE		5.50	262,176	
00003	CRUSHED STONE BASE	3	8.00	12,621	
00003	CRUSHED STONE BASE		10.00	144,564	
00003	CRUSHED STONE BASE (I-65 Wedge)	1	11.27	100,035	
00008	CEMENT STABILIZED ROADBED	2	----	137,984	
00013	LIME STABILIZED ROADBED	2	----	137,984	
00014	LIME	2	----	137,984	
00100	ASPHALT SEAL AGGREGATE		----	46,775	
00103	ASPHALT SEAL COAT		----	46,775	
00208	CL4 ASPH BASE 1.50D PG64-22		4.50	262,176	
00214	CL3 ASPH BASE 1.00D PG64-22	3	3.25	25,242	
00214	CL3 ASPH BASE 1.00D PG64-22		3.50	236,329	
00217	CL4 ASPH BASE 1.00D PG64-22		3.50	258,088	
00219	CL4 ASPH BASE 1.00D PG76-22		3.50	254,001	
00339	CL3 ASPH SURF 0.38D PG64-22	3	1.50	12,621	
00339	CL3 ASPH SURF 0.38D PG64-22		1.50	105,104	
00342	CL4 ASPH SURF 0.38A PG76-22		1.50	287,284	
00358	ASPHALT CURING SEAL	2	----	137,984	
02060	PCC PAVEMENT DIAMOND GRINDING		----		11,299
02542	CEMENT	2	----	137,984	
02702	SAND FOR BLOTTER	2	----	137,984	
20071EC	JOINT ADHESIVE		----	126,125	
24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT		----	1,061,549	
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING		----	774,265	

NOTES:

1. Depth shown is equivalent and is based on the depth that varies over the cross section of pavement material.
2. For stabilized roadbed.
3. For temporary crossovers.



PAVING SUMMARY						
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00						
BID CODE	ITEM	NOTES	UNITS	I-65	US 61	TOTAL
00003	CRUSHED STONE BASE	3	TON	236,668		236,668
00008	CEMENT STABILIZED ROADWAY		SQYD	137,984		137,984
00013	LIME STABILIZED ROADBED		SQYD	137,984		137,984
00014	LIME	9	TON	1,788		1,788
00100	ASPHALT SEAL AGGREGATE	5	TON	936		936
00103	ASPHALT SEAL COAT	6	TON	112		112
00208	CL4 ASPH BASE 1.50D PG64-22	2	TON	64,888		64,888
00214	CL3 ASPH BASE 1.00D PG64-22	2,11	TON	46,493		46,493
00217	CL4 ASPH BASE 1.00D PG64-22	2	TON	49,682		49,682
00219	CL4 ASPH BASE 1.00D PG76-22	2	TON	48,895		48,895
00339	CL3 ASPH SURF 0.38D PG64-22	2,11	TON	9,671		9,671
00342	CL4 ASPH SURF 0.38A PG76-22	2	TON	23,701		23,701
00358	ASPHALT CURING SEAL	7	TON	276		276
02060	PCC PAVEMENT DIAMOND GRINDING		SQYD		11,299	11,299
02542	CEMENT	10	TON	2,682		2,682
02702	SAND FOR BLOTTER	8	TON	345		345
20071EC	JOINT ADHESIVE		LF	126,125		126,125
24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT		SQFT	9,553,940		9,553,940
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	4	TON	271		271

NOTES:

1. Quantities are carried over and included in General Summary.
2. Estimated at 110 lbs. per sq. yd. per inch of depth.
3. Estimated at 115 lbs. per sq. yd. per inch of depth.
4. Estimated at 0.70 lbs. per sq. yd.
5. Estimated at 20 lbs. per sq. yd. (two applications).
6. Estimated at 2.4 lbs. per sq. yd. (two applications).
7. Estimated at 2.0 lbs. per sq. yd.
8. Estimated at 5.0 lbs. per sq. yd.
9. Estimated at 4% by weight with a dry density of 108 lbs. per cubic foot.
10. Estimated at 6% by weight with a dry density of 108 lbs. per cubic foot.
11. Includes 1,000 tons for repair of pavement during MOT.

SCHEDULE AND SUMMARY OF PAVEMENT UNDERDRAIN									
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00									
DIRECTION		MP TO MP		NOTES	TON	LIN. FT.	LIN. FT.	PERFORATED PIPE OUTLET	
NORTHBOUND	SOUTHBOUND	STATION	MILEPOINT		CRUSHED AGGREGATE NO. 2	PERFORATED PIPE EDGE DRAIN - 6 IN.	NON- PERFORATED PIPE - 6 IN	EACH	
					00078	01006	01011	01033	
I-65 NORTHBOUND BASELINE ALIGNMENT									
X		795+73 TO 799+21	104.700 TO 104.766	1	1	348	9.5	1	
X		799+21 TO 802+21	104.766 TO 104.823	1	1	300	9.5	1	
X		802+21 TO 805+21	104.823 TO 104.880	1	1	300	9.5	1	
X		805+21 TO 808+25	104.880 TO 104.937	1	1	304	9.5	1	
X		808+25 TO 811+00	104.937 TO 104.989	1	-	275	-	-	
X		811+00 TO 813+75	104.989 TO 105.041	1	1	275	9.5	1	
X		813+75 TO 816+50	105.041 TO 105.093	1	1	275	9.5	1	
X		816+50 TO 819+25	105.093 TO 105.145	1	1	275	9.5	1	
X		819+25 TO 822+00	105.145 TO 105.198	1	1	275	9.5	1	
X		822+00 TO 824+75	105.198 TO 105.250	1	1	275	9.5	1	
X		824+75 TO 827+50	105.250 TO 105.302	1	1	275	9.5	1	
X		827+50 TO 830+25	105.302 TO 105.354	1	1	275	9.5	1	
X		830+25 TO 833+00	105.354 TO 105.406	1	1	275	9.5	1	
X		833+00 TO 835+75	105.406 TO 105.458	1	-	275	-	-	
X		835+75 TO 838+75	105.458 TO 105.515	1	1	300	9.5	1	
X		838+75 TO 841+75	105.515 TO 105.572	1	1	300	9.5	1	
X		841+75 TO 844+75	105.572 TO 105.628	1	1	300	9.5	1	
X		844+75 TO 847+75	105.628 TO 105.685	1	1	300	9.5	1	
X		847+75 TO 850+75	105.685 TO 105.742	1	1	300	9.5	1	
X		850+75 TO 853+40	105.742 TO 105.792		1	265	9.5	1	
X		853+40 TO 856+00	105.792 TO 105.841	1	1	260	9.5	1	
I-65 SOUTHBOUND BASELINE ALIGNMENT									
	X	862+50 TO 865+50	105.965 TO 106.021	1	1	300	9.5	1	
	X	865+50 TO 868+50	106.021 TO 106.078	1	1	300	9.5	1	
	X	868+50 TO 871+50	106.078 TO 106.135	1	1	300	9.5	1	
	X	871+50 TO 874+50	106.135 TO 106.192	1	1	300	9.5	1	
	X	874+50 TO 877+50	106.192 TO 106.249	1	1	300	9.5	1	
	X	877+50 TO 880+50	106.249 TO 106.305	1	1	300	9.5	1	
	X	880+50 TO 883+16	106.305 TO 106.356	1	1	266	9.5	1	
	X	883+16 TO 886+16	106.356 TO 106.413	1	-	300	-	-	

SCHEDULE AND SUMMARY OF PAVEMENT UNDERDRAIN									
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00									
DIRECTION		MP TO MP		NOTES	TON	LIN. FT.	LIN. FT.	PERFORATED PIPE OUTLET	
NORTHBOUND	SOUTHBOUND	STATION	MILEPOINT		CRUSHED AGGREGATE NO. 2	PERFORATED PIPE EDGE DRAIN - 6 IN.	NON-PERFORATED PIPE - 6 IN	EACH	
								TYPE 4-6 IN (6:1)	
					00078	01006	01011	01033	
	X	886+16 TO 889+16	106.413 TO 106.470	1	1	300	9.5	1	
	X	889+16 TO 892+16	106.470 TO 106.526	1	1	300	9.5	1	
	X	892+16 TO 895+16	106.526 TO 106.583	1	1	300	9.5	1	
	X	895+16 TO 897+96	106.583 TO 106.636	1	1	280	9.5	1	
	X	897+96 TO 900+21	106.636 TO 106.679	1	1	225	9.5	1	
	X	900+21 TO 902+50	106.679 TO 106.722	1	1	229	9.5	1	
	X	902+50 TO 905+50	106.722 TO 106.779	1	-	300	-	-	
	X	905+50 TO 908+50	106.779 TO 106.836	1	1	300	9.5	1	
	X	908+50 TO 911+50	106.836 TO 106.893	1	1	300	9.5	1	
	X	911+50 TO 914+50	106.893 TO 106.949	1	1	300	9.5	1	
	X	914+50 TO 917+50	106.949 TO 107.006	1	1	300	9.5	1	
	X	917+50 TO 919+90	107.006 TO 107.052	1	1	240	9.5	1	
	X	919+90 TO 922+25	107.052 TO 107.096	1	1	235	9.5	1	
	X	922+25 TO 925+25	107.096 TO 107.153	1	1	300	9.5	1	
	X	925+25 TO 928+25	107.153 TO 107.210	1	1	300	9.5	1	
	X	928+25 TO 931+25	107.210 TO 107.267	1	1	300	9.5	1	
	X	931+25 TO 934+25	107.267 TO 107.323	1	1	300	9.5	1	
	X	934+25 TO 937+25	107.323 TO 107.380	1	1	300	9.5	1	
	X	937+25 TO 940+25	107.380 TO 107.437	1	1	300	9.5	1	
	X	940+25 TO 943+25	107.437 TO 107.494	1	1	300	9.5	1	
	X	943+25 TO 946+25	107.494 TO 107.551	1	1	300	9.5	1	
	X	946+25 TO 949+25	107.551 TO 107.608	1	1	300	9.5	1	
	X	949+25 TO 952+25	107.608 TO 107.664	1	1	300	9.5	1	
	X	952+25 TO 955+25	107.664 TO 107.721	1	1	300	9.5	1	
	X	955+25 TO 958+25	107.721 TO 107.778	1	1	300	9.5	1	
	X	958+25 TO 961+25	107.778 TO 107.835	1	1	300	9.5	1	
	X	961+25 TO 964+25	107.835 TO 107.892	1	1	300	9.5	1	
	X	964+25 TO 967+25	107.892 TO 107.948	1	1	300	9.5	1	
	X	967+25 TO 970+25	107.948 TO 108.005	1	1	300	9.5	1	
	X	970+25 TO 973+25	108.005 TO 108.062	1	1	300	9.5	1	

SCHEDULE AND SUMMARY OF PAVEMENT UNDERDRAIN								
I-65 - BULLITT COUNTY - ITEM NO. 5-22066.00								
DIRECTION		MP TO MP		NOTES	TON	LIN. FT.	LIN. FT.	PERFORATED PIPE OUTLET
NORTHBOUND	SOUTHBOUND	STATION	MILEPOINT		CRUSHED AGGREGATE NO. 2	PERFORATED PIPE EDGE DRAIN - 6 IN.	NON- PERFORATED PIPE - 6 IN	EACH
					00078	01006	01011	01033
	X	973+25 TO 976+25	108.062 TO 108.119	1	1	300	9.5	1
	X	976+25 TO 979+25	108.119 TO 108.176	1	1	300	9.5	1
	X	979+25 TO 982+25	108.176 TO 108.233	1	1	300	9.5	1
	X	982+25 TO 985+25	108.233 TO 108.289	1	1	300	9.5	1
	X	985+25 TO 988+25	108.289 TO 108.346	1	1	300	9.5	1
	X	988+25 TO 991+25	108.346 TO 108.403	1	1	300	9.5	1
	X	991+25 TO 994+25	108.403 TO 108.460	1	1	300	9.5	1
	X	994+25 TO 997+25	108.460 TO 108.517	1	1	300	9.5	1
	X	997+25 TO 1000+25	108.517 TO 108.573	1	1	300	9.5	1
	X	1000+25 TO 1003+25	108.573 TO 108.630	1	1	300	9.5	1
	X	1003+25 TO 1006+25	108.630 TO 108.687	1	1	300	9.5	1
	X	1006+25 TO 1009+25	108.687 TO 108.744	1	1	300	9.5	1
	X	1009+25 TO 1012+25	108.744 TO 108.801	1	1	300	9.5	1
	X	1012+25 TO 1015+25	108.801 TO 108.858	1	1	300	9.5	1
	X	1015+25 TO 1018+25	108.858 TO 108.914	1	1	300	9.5	1
	X	1018+25 TO 1021+25	108.914 TO 108.971	1	1	300	9.5	1
	X	1021+25 TO 1024+25	108.971 TO 109.028	1	1	300	9.5	1
	X	1024+25 TO 1027+25	109.028 TO 109.085	1	1	300	9.5	1
	X	1027+25 TO 1030+25	109.085 TO 109.142	1	1	300	9.5	1
	X	1030+25 TO 1033+25	109.142 TO 109.198	1	1	300	9.5	1
	X	1033+25 TO 1036+25	109.198 TO 109.255	1	1	300	9.5	1
	X	1036+25 TO 1039+25	109.255 TO 109.312	1	1	300	9.5	1
	X	1039+25 TO 1041+35	109.312 TO 109.352	1	1	210	9.5	1
	X	1041+35 TO 1043+50	109.352 TO 109.393	1	1	215	9.5	1
PROJECT TOTALS:					79	24,127	751	79

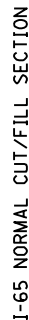
NOTES:

1. Pavement underdrain to be installed only on inside shoulder when pavement superelevation does not slope to outside shoulder.

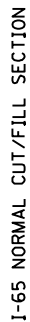
## MP 104.700 TO MP 106.500

- ① PROPOSED GRADE POINTS TO BE RAISED APPROXIMATELY 1.5 INCHES ABOVE EXISTING GRADE POINTS.
- ② ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH LINE OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:  
 ASPHALT SEAL COAT @ 2.40 LBS./SQ. YD.  
 ASPHALT SEAL AGGREGATE @ 20 LBS./SQ. YD.

- ③ EXISTING CONCRETE PAVEMENT OF ALL TRAVEL LANES AND SHOULDERS IS TO BE REMOVED AND REPLACED WITH NEW ASPHALT PAVEMENT. INCLUDES THE REMOVAL OF ALL UNDERLYING BASE MATERIAL. REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO THE REMOVAL OF THE CONCRETE.
- ④ SUPERELEVATED SHOULDERS, CONSTRUCT TO STANDARD SUPERELEVATION, EXCEPT NOT FLATTER THAN SLOPES INDICATED FOR NORMAL SLOPES.
- ⑤ LOCATION OF EXISTING CABLE BARRIER VARIES ON NORTHBOUND OR SOUTHBOUND SIDE OF THE MEDIAN. SEE PLAN SHEETS FOR LOCATIONS
- ⑥ FOR PAVEMENT DETAILS, SEE PAVEMENT DETAILS SHEET.
- ⑦ 6" LONGITUDINAL EDGE DRAIN TO BE INSTALLED WHEN EXISTING MEDIAN CABLE-ROPE BARRIER IS LEFT IN PLACE.

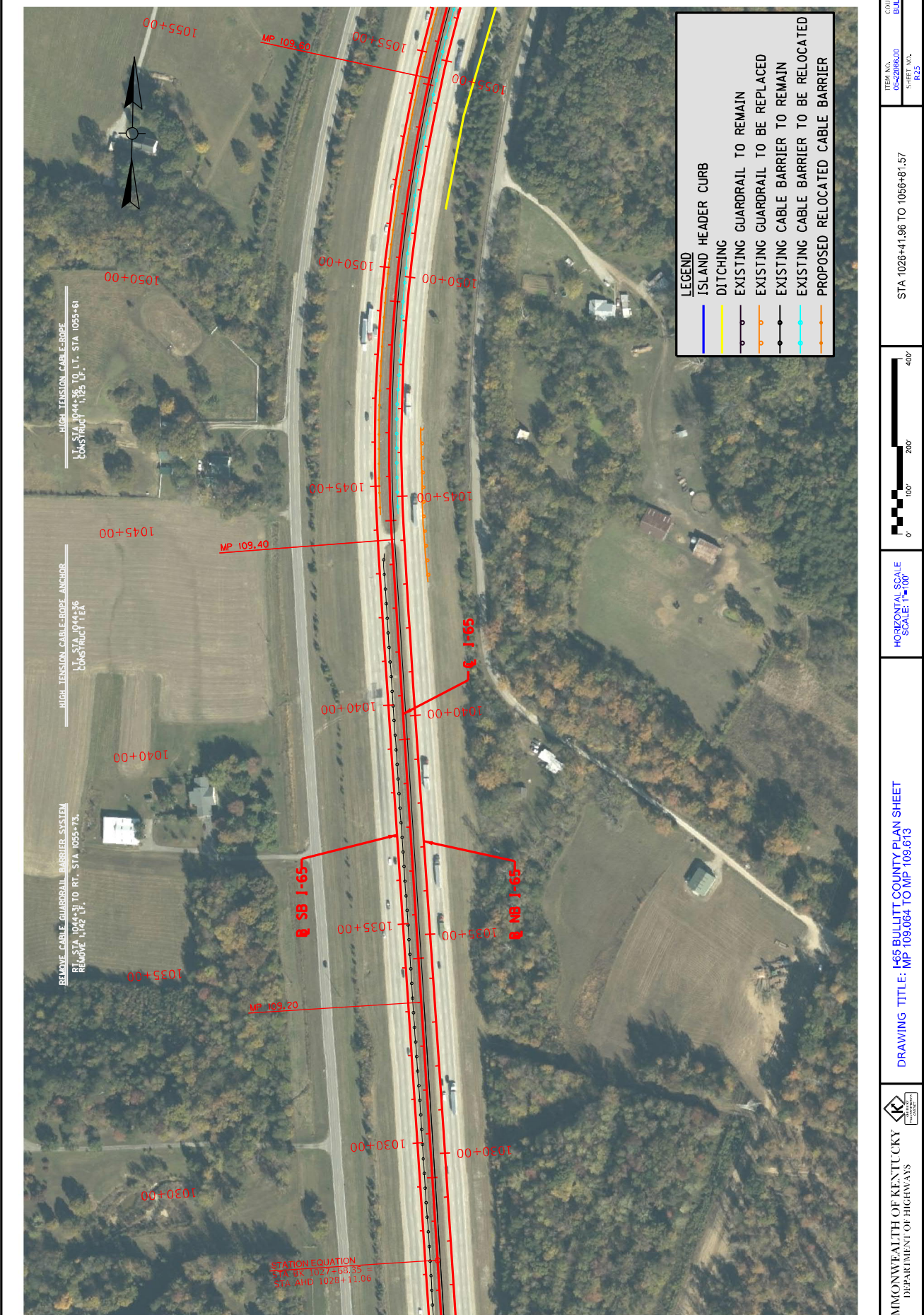


## MP 106.500 TO MP 110.700



- ① PROPOSED GRADE POINT FOR NORTHBOUND TO BE RAISED APPROXIMATELY 1.5 INCHES ABOVE EXISTING GRADE POINT.
- ② ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO OUTSIDE EDGE OF MEDIAN OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:  
    ASPHALT SEAL COAT @ 2.40 LBS./SQ. YD.  
    ASPHALT SEAL AGGREGATE @ 20 LBS./SQ. YD.
- ③ EXISTING CONCRETE PAVEMENT OF ALL TRAVEL LANES AND SHOULDERS IS TO BE REMOVED AND REPLACED WITH NEW ASPHALT PAVEMENT; INCLUDES THE REMOVAL OF ALL UNDERLYING BASE MATERIAL; REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO THE REMOVAL OF THE CONCRETE.
- ④ SUPERELEVATED SHOULDERS; CONSTRUCT TO STANDARD SUPERELEVATION, EXCEPT NOT FLATTER THAN SLOPES INDICATED FOR NORMAL SLOPES.
- ⑤ LOCATION OF EXISTING CABLE BARRIER VARIES ON NORTHBOUND OR SOUTHBOUND SIDE OF THE MEDIAN; SEE PLAN SHEETS FOR LOCATIONS.
- ⑥ PROPOSED GRADE POINT FOR SOUTHBOUND TO BE RAISED APPROXIMATELY 2.5 INCHES ABOVE THE EXISTING GRADE POINT.
- 7 FOR PAVEMENT DETAILS, SEE PAVEMENT DETAILS SHEET.
- ⑧ 6" LONGITUDINAL EDGE DRAIN TO BE INSTALLED WHEN EXISTING MEDIAN CABLE-ROPE BARRIER IS LEFT IN PLACE.





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: I-65 BULLITT COUNTY PLAN SHEET  
MP 109.064 TO MP 109.613

HORIZONTAL SCALE  
SCALE: 1"=100'

STA 1026+41.96 TO 1056+81.57

ITEM NO.  
05-22066.00

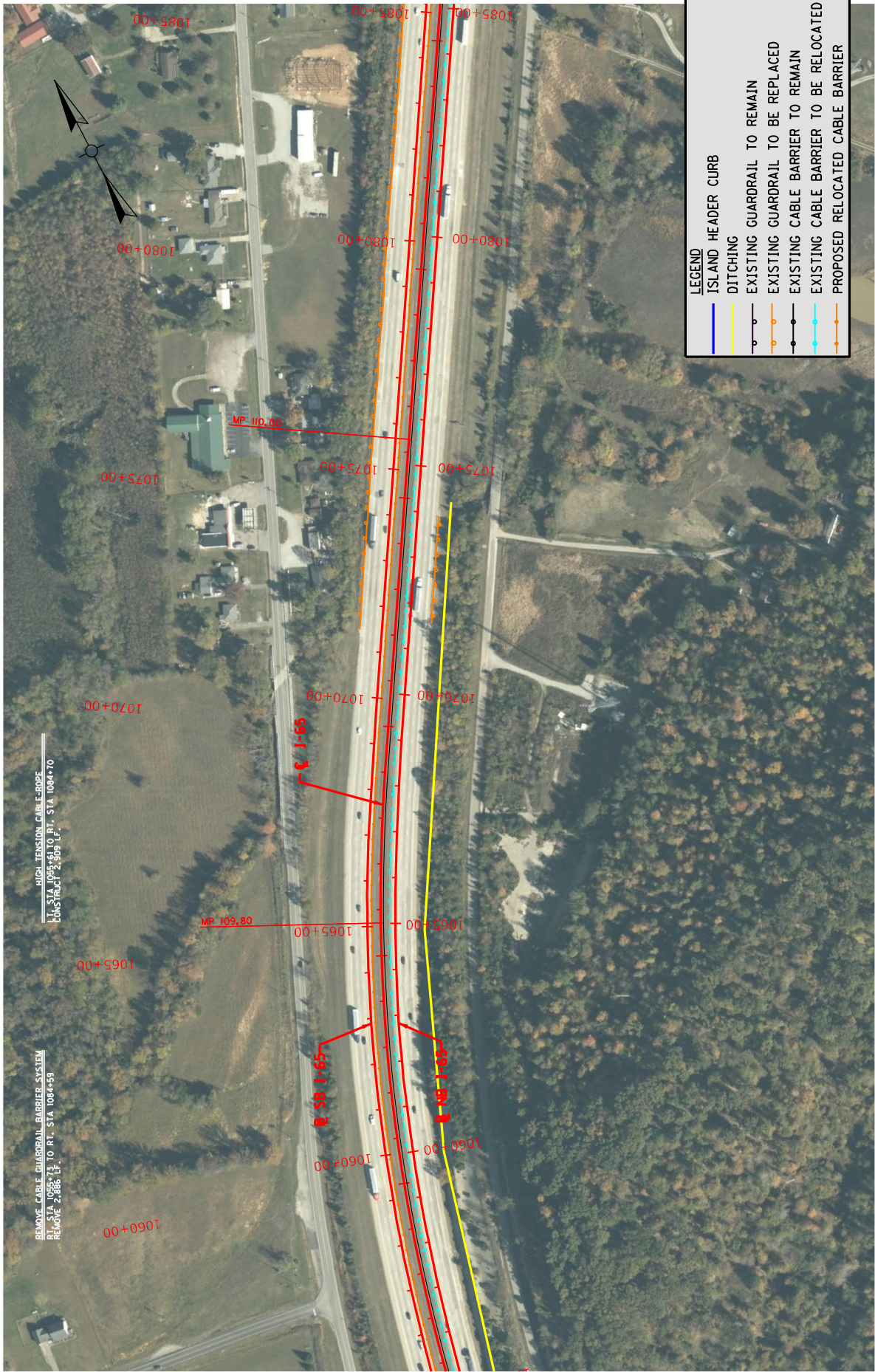
SHEET NO.  
R25


COUNTY OF  
BULLITT

FILE NAME: 20200215 SW PAVEMENT REPAIR 20200222 468 BULLITT COUNTY CAD PLANS 468-BULLITT TADJON

USER: USAM706622








COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE: I-65 BULLITT COUNTY PLAN SHEET  
MP 109.613 TO MP 109.161

HORIZONTAL SCALE  
SCALE: 1"=100'



STA 1055+80.47 TO 1085+81.10

ITEM NO.  
05-220665.00  
SHEET NO.  
R28

COUNTY OF  
BULLITT

FILE NAME: 202600215 SW PAVEMENT REPAIR 20260222468 BULLITT COUNTY CAD PLANS 245-BULLITT TADON  
USER: USAM70862









**LEGEND**

- TEMPORARY BARRIER WALL
- EXISTING CROSSOVER PAVEMENT
- PROPOSED CROSSOVER PAVEMENT
- TEMPORARY MARKERS
- PAVEMENT MARKERS (SPACED 40')

	DRAWING TITLE: CROSSOVER #3 PHASE 1	HORIZONTAL SCALE SCALE: 1"=80'		STA 1111+00.01 TO 1126+00.01	ITEM NO. 05-22066.00 SHEET NO. 5 OF 6	COUNTY OF BULLITT
				FILE NAME: C:\USERS\CARP\IN\DOCUMENTS\BULLITT COUNTY\CAD\DOT\CROSSOVER #3 - PHASE 1.DGN		

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

OpenRoads Designer V10.0.2287





HORIZONTAL SCALE  
SCALE: 1"=100'

STA 1104+57.89 TO 1134+57.89

1

E-NAME: M30000215 SW DAVENANT DCU40 2020-20221-45 BULLITT COLLENTYACADMYMOTTCROSSOVER RD - PHASE 2 CON

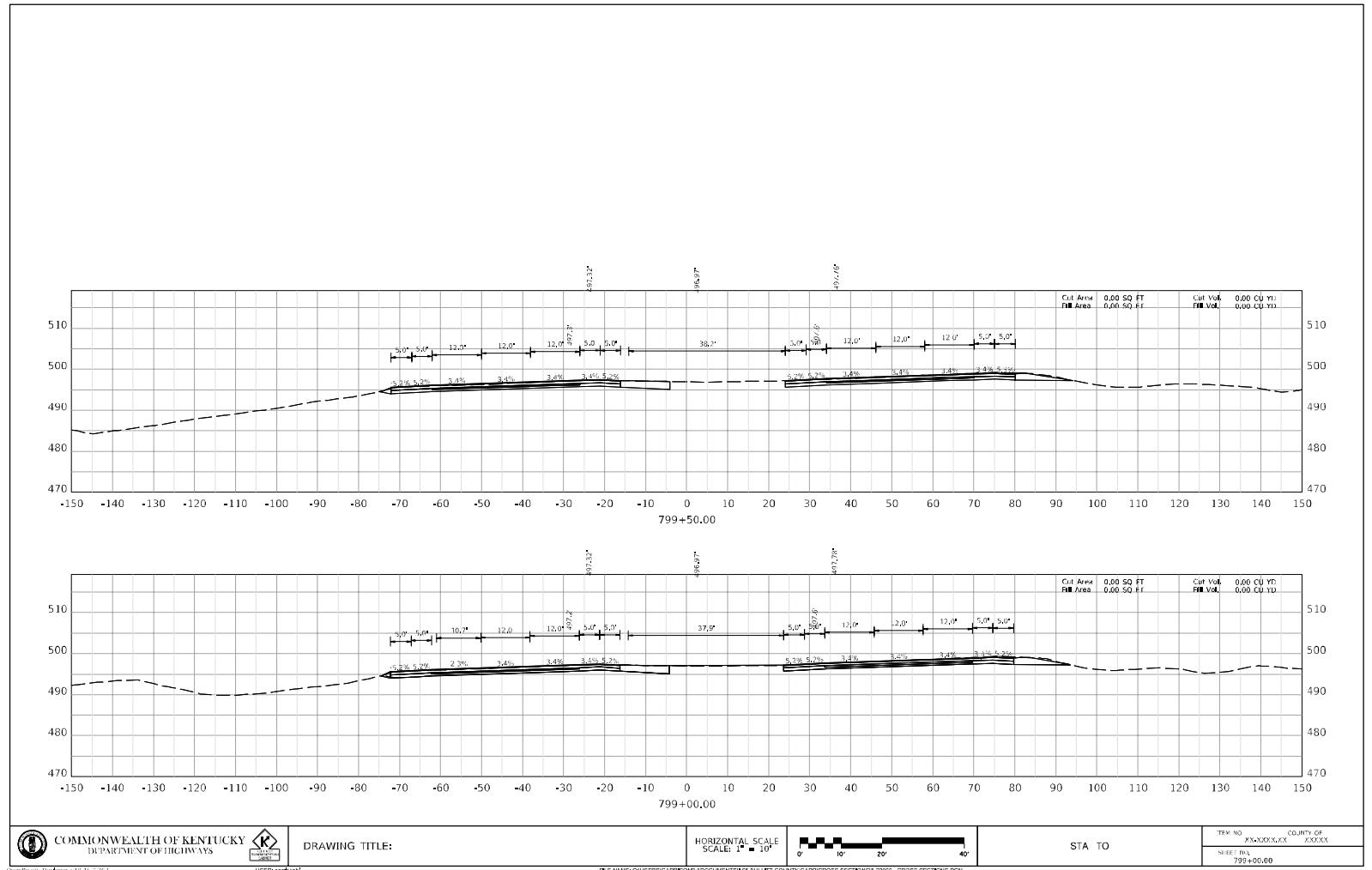
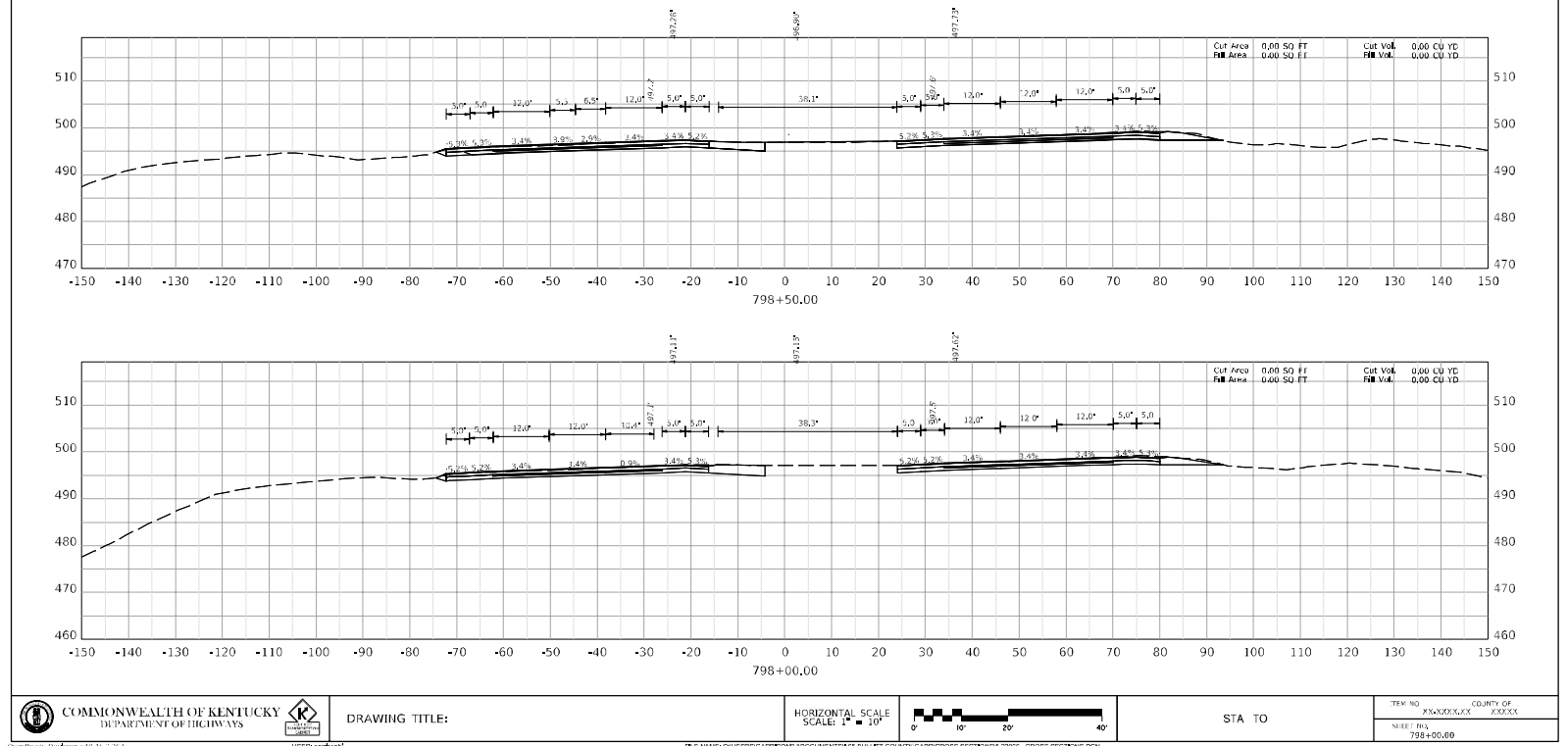
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COMMONWEALTH OF KENTUCKY  
 TEAM KENTUCKY

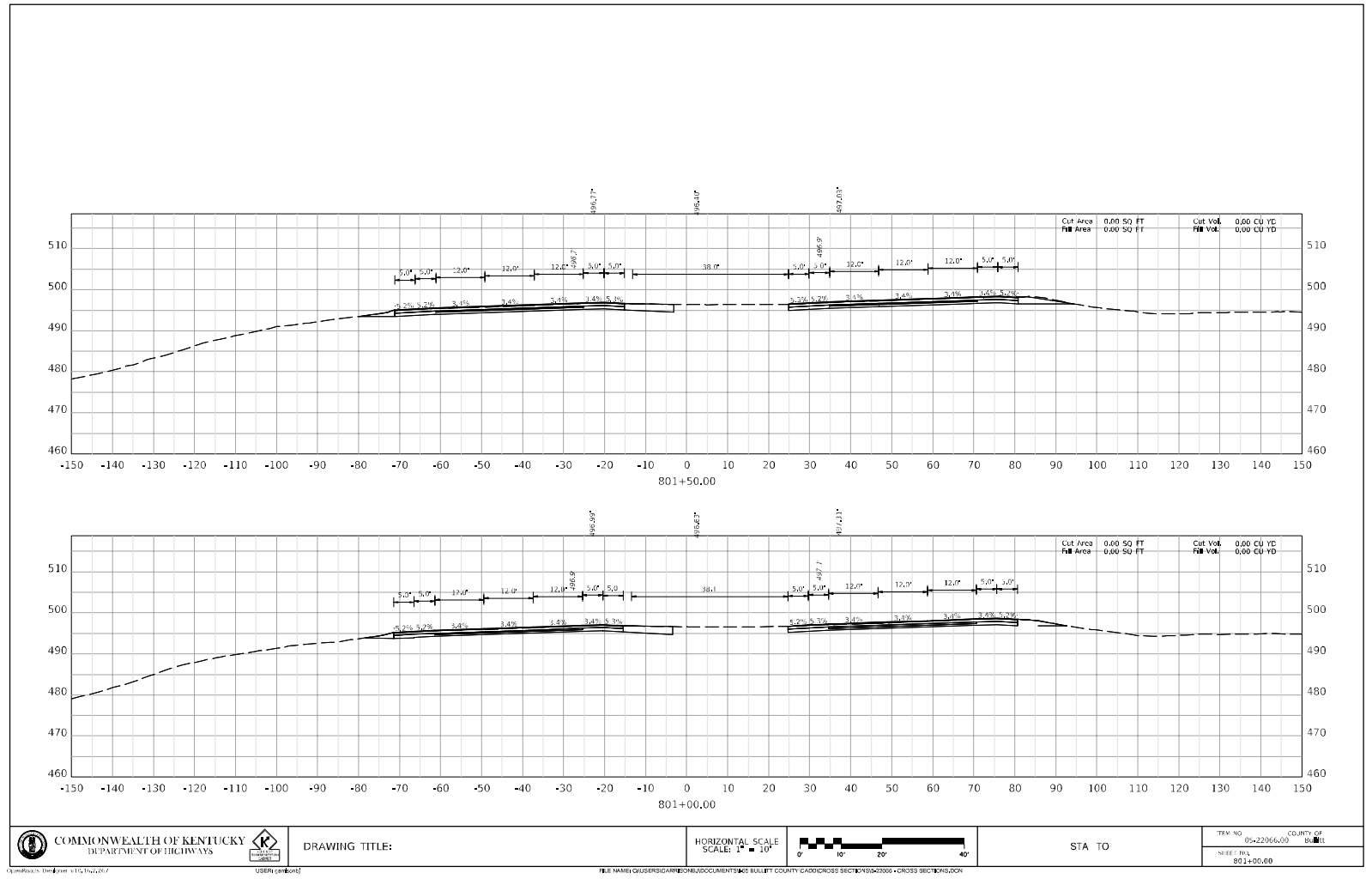
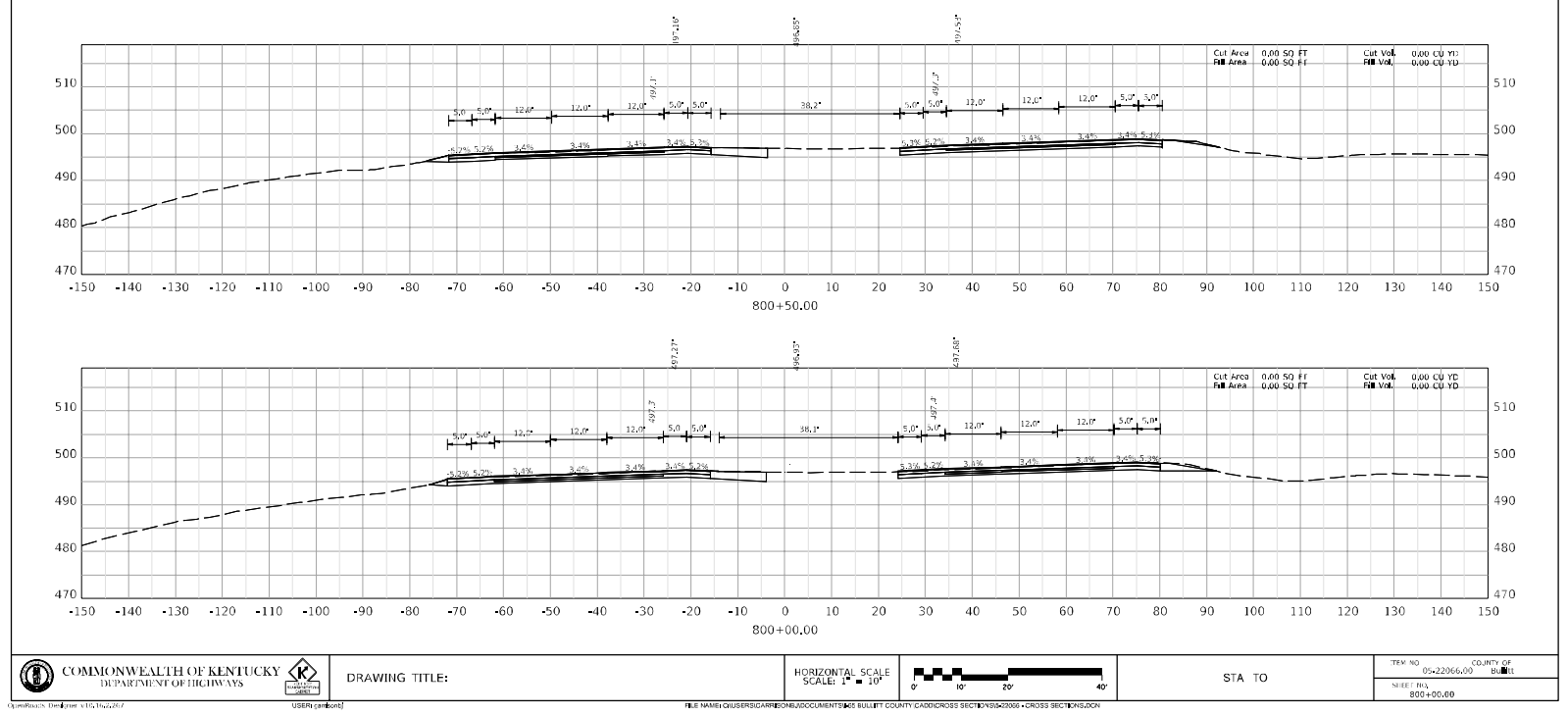
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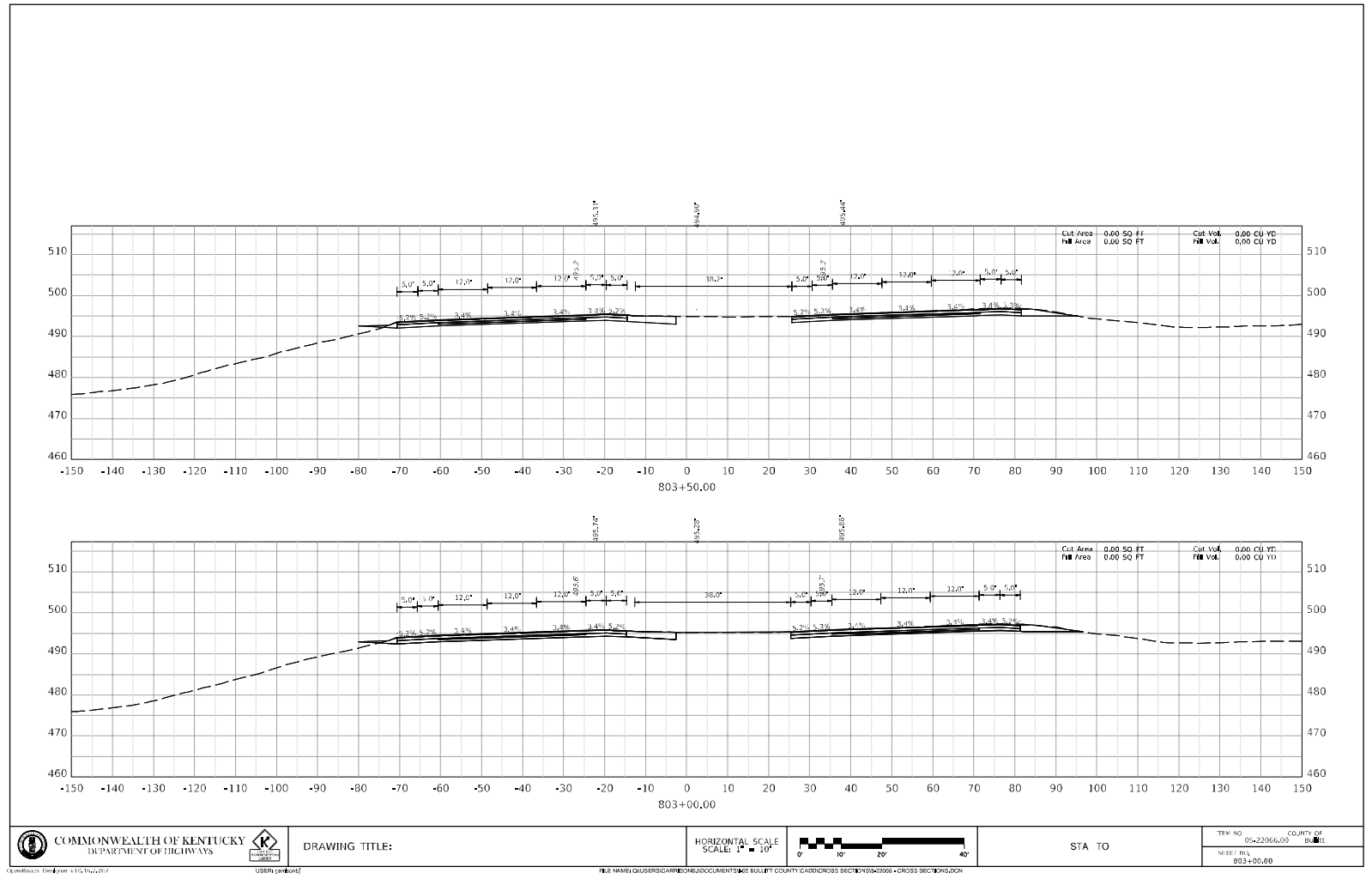
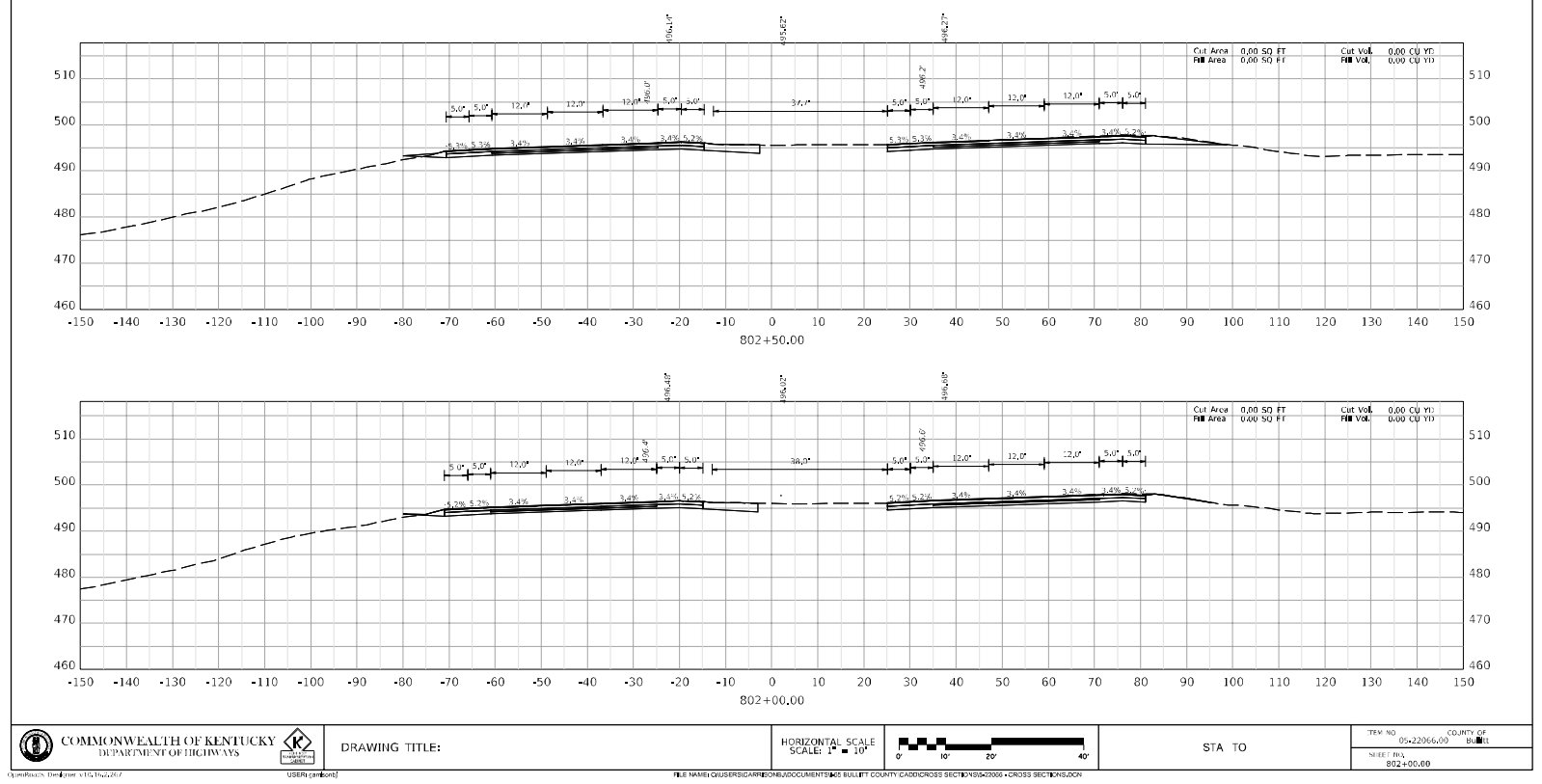
Journal of Management Inquiry 16(2) 287

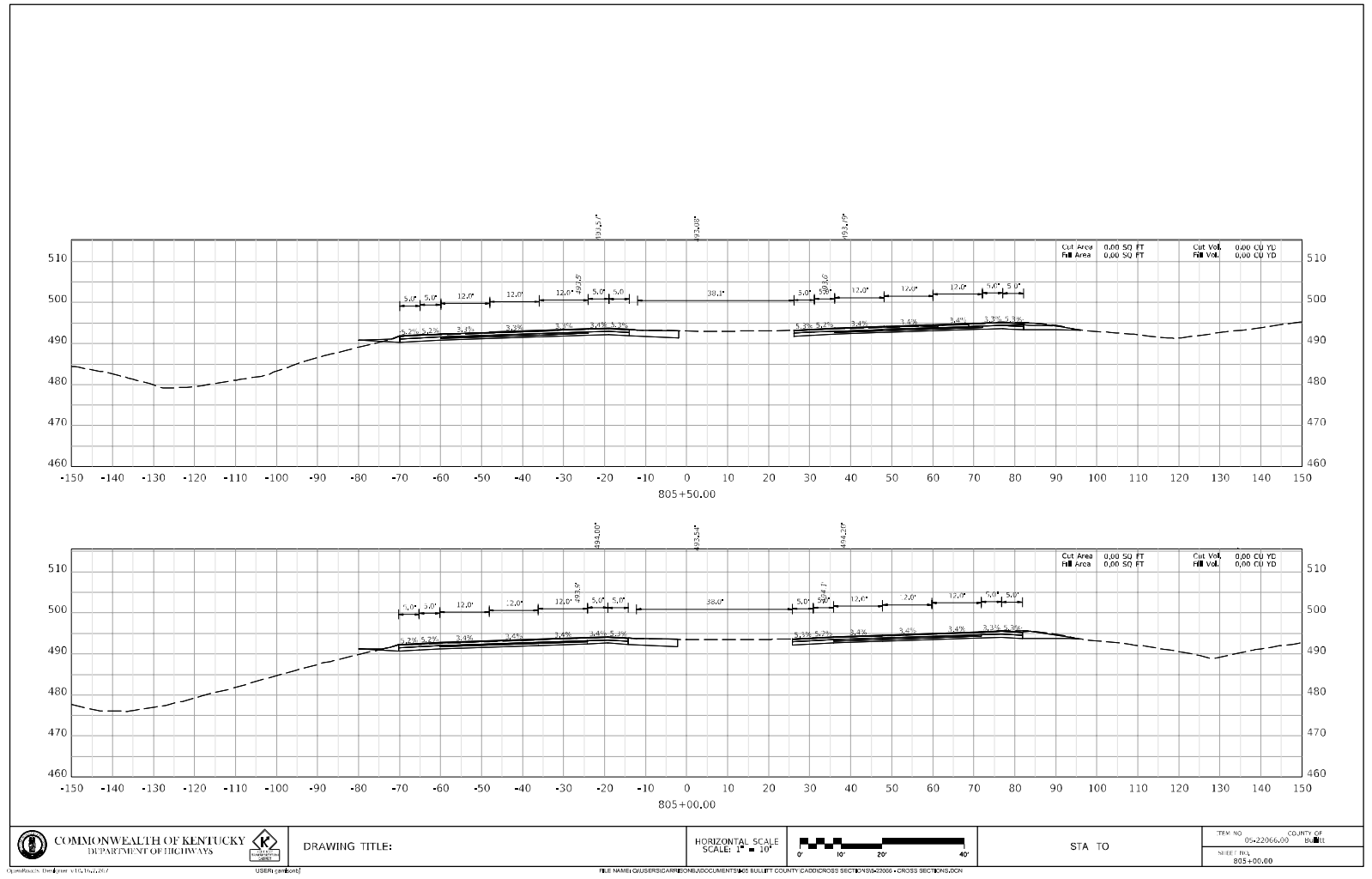
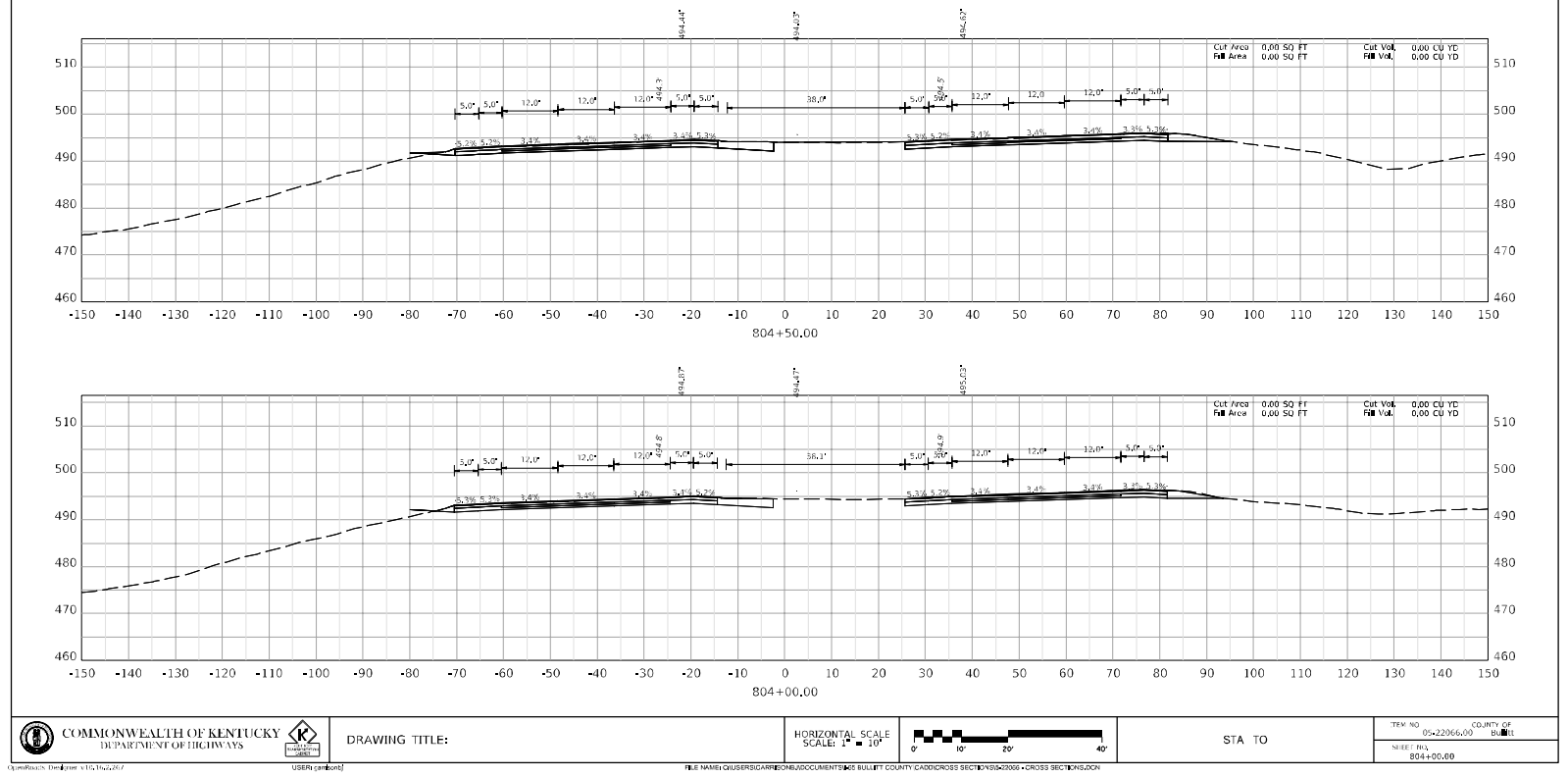




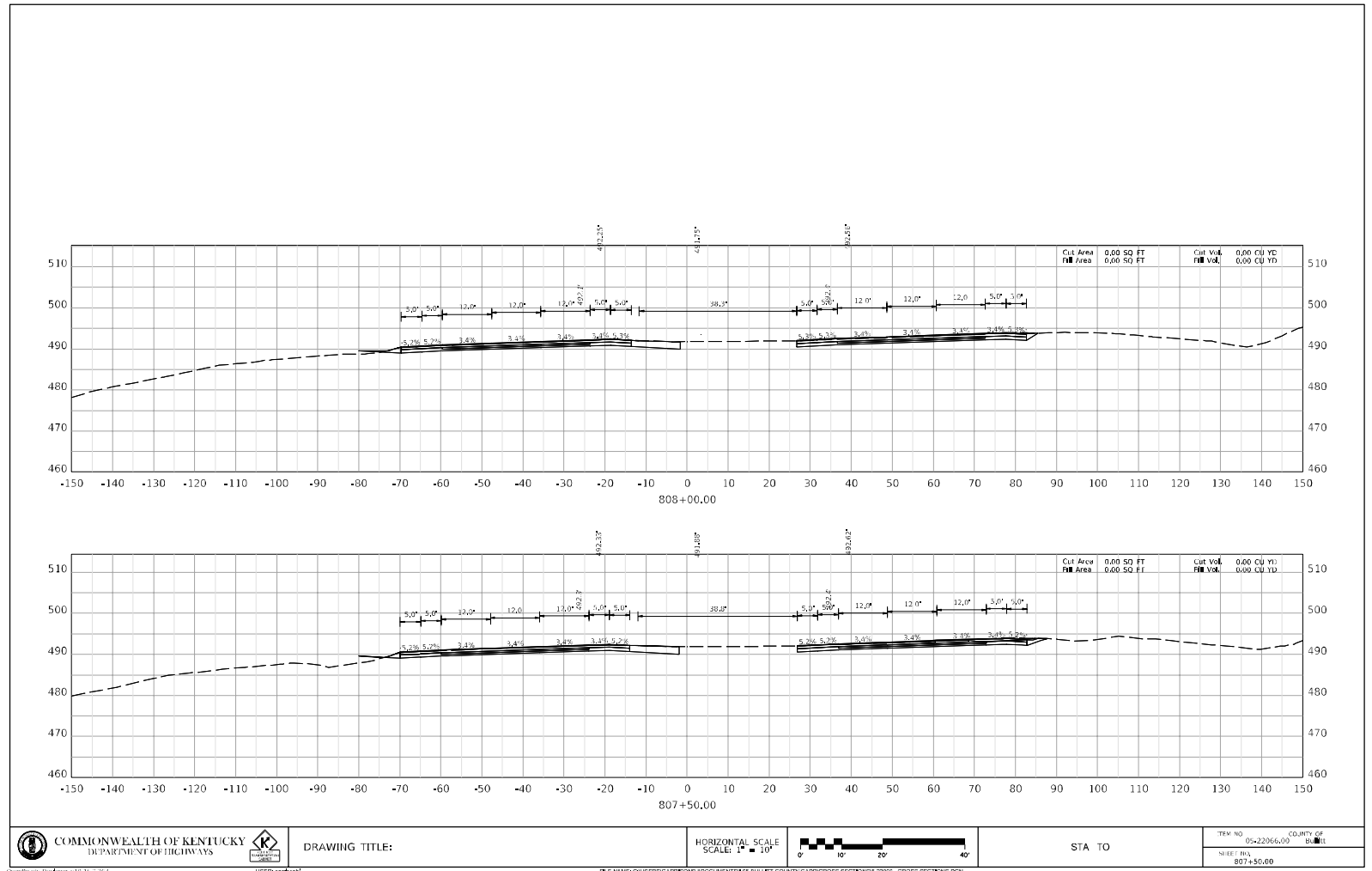
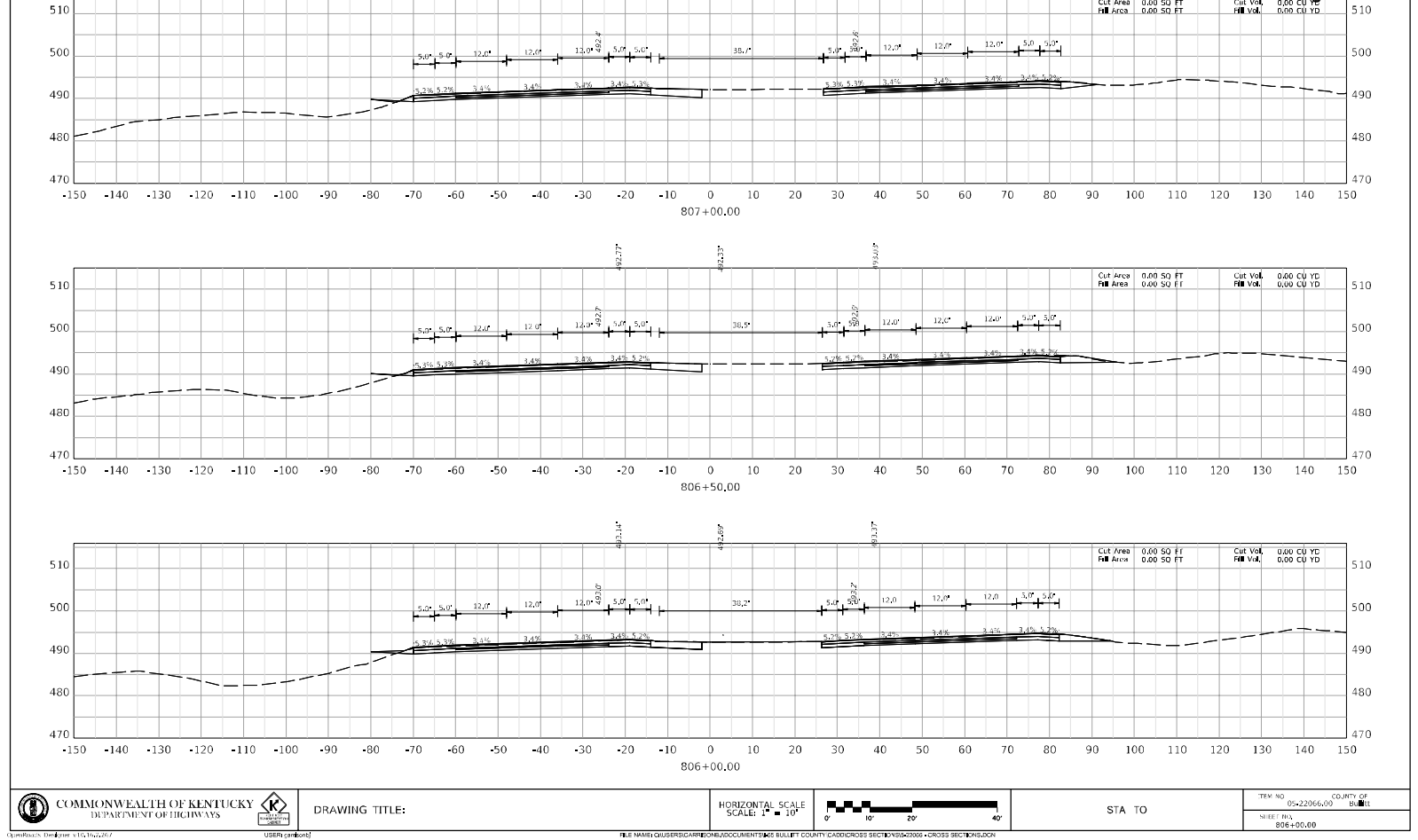


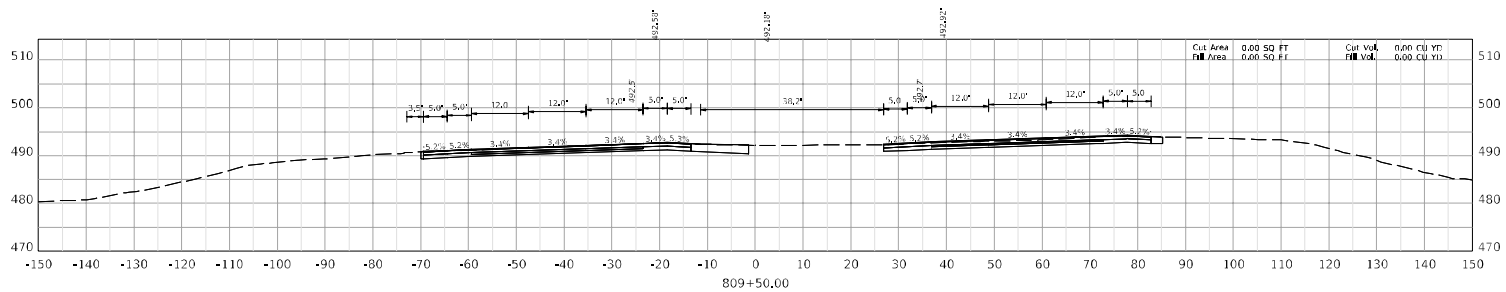
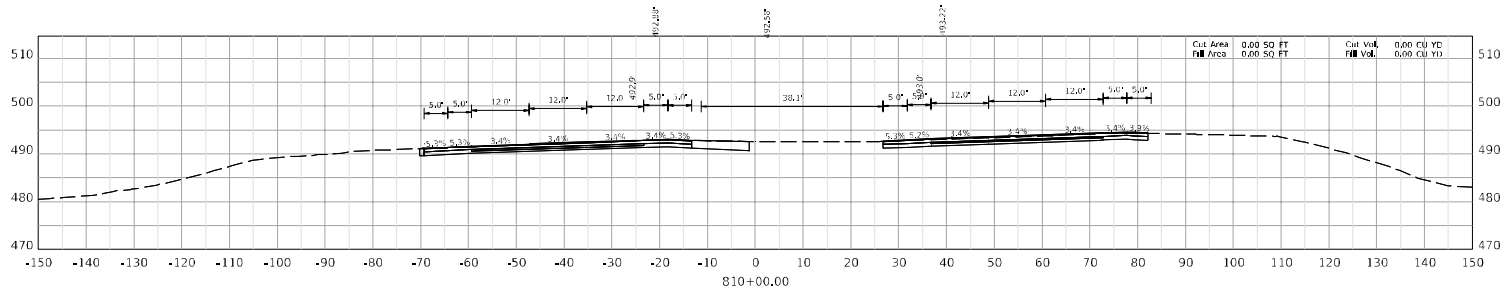
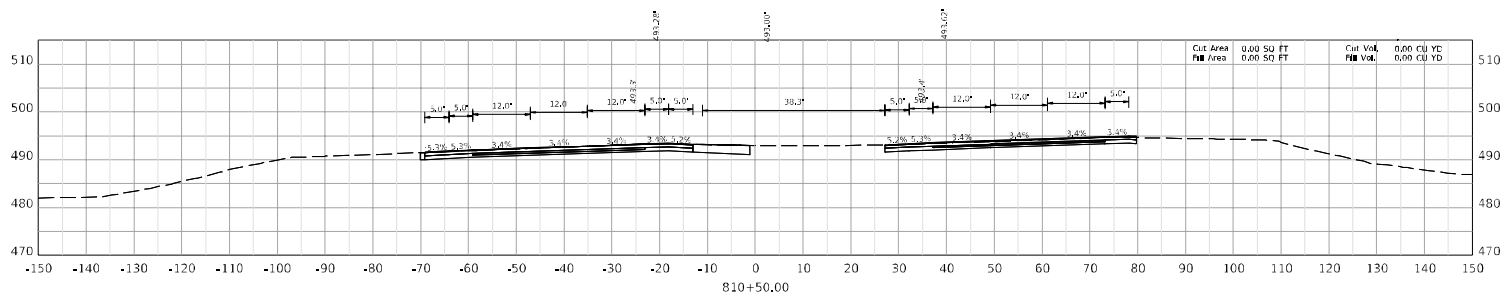
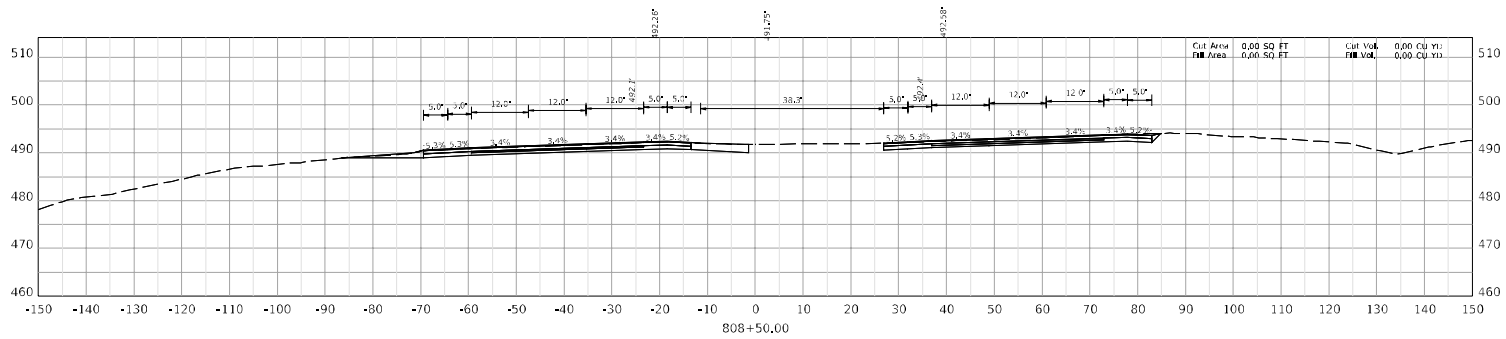
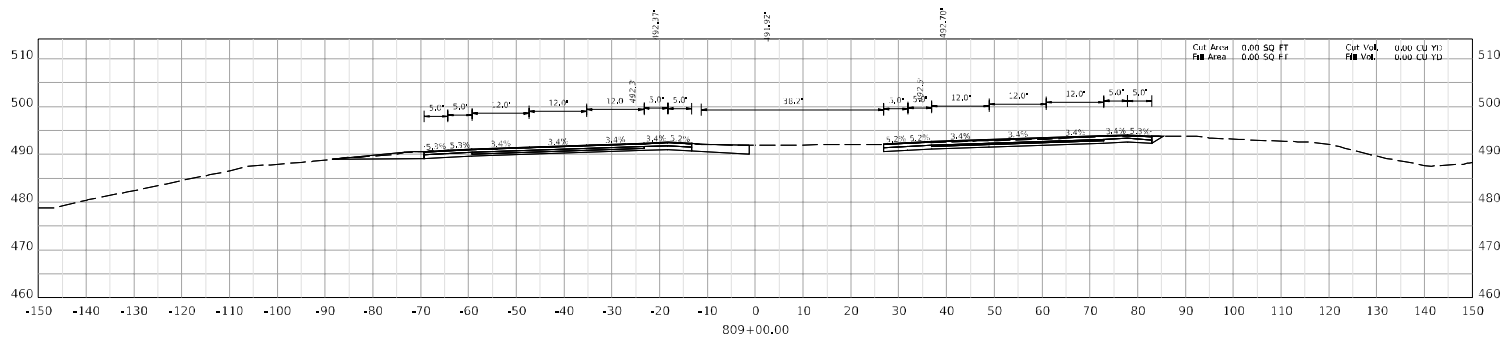


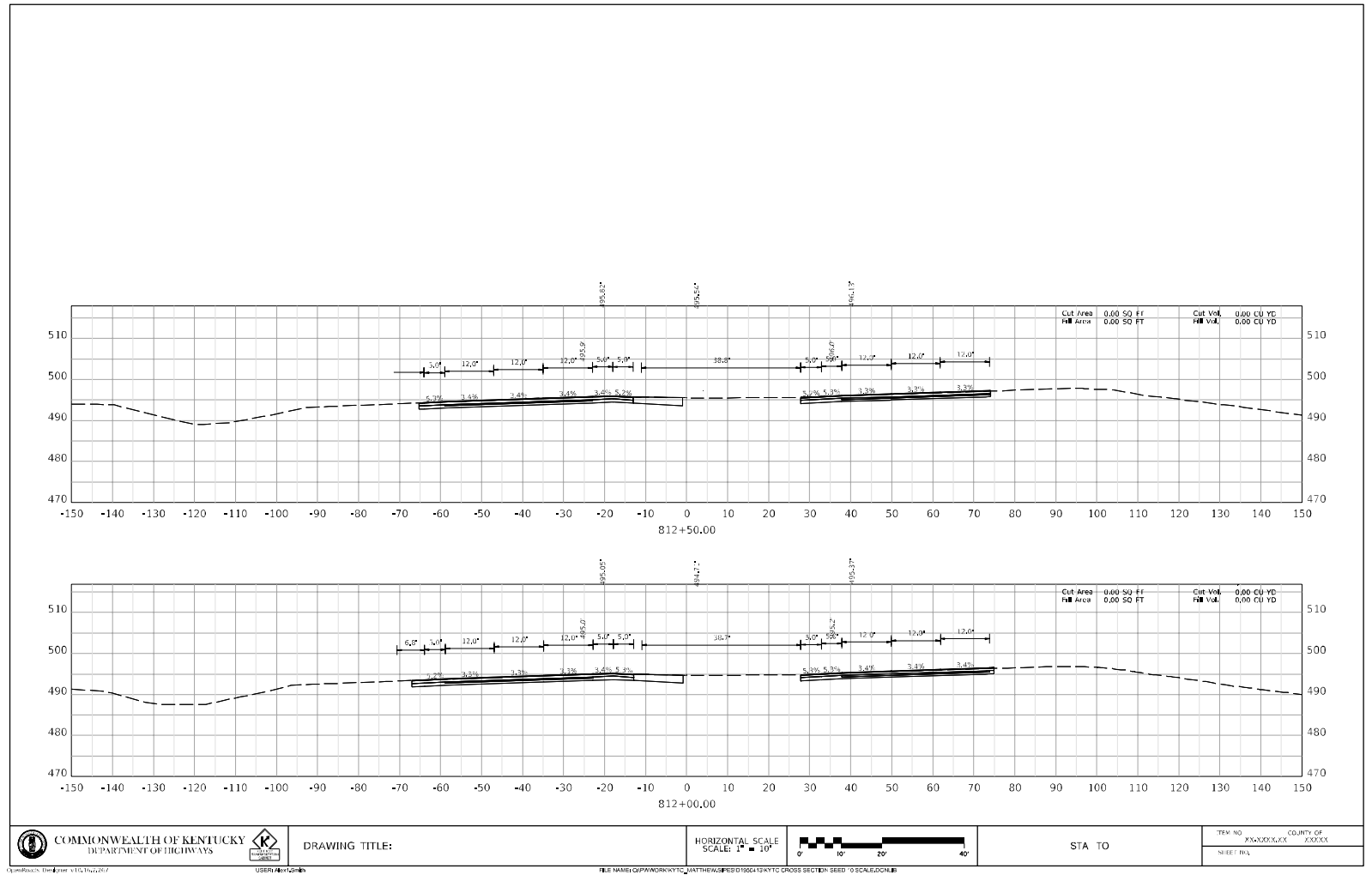
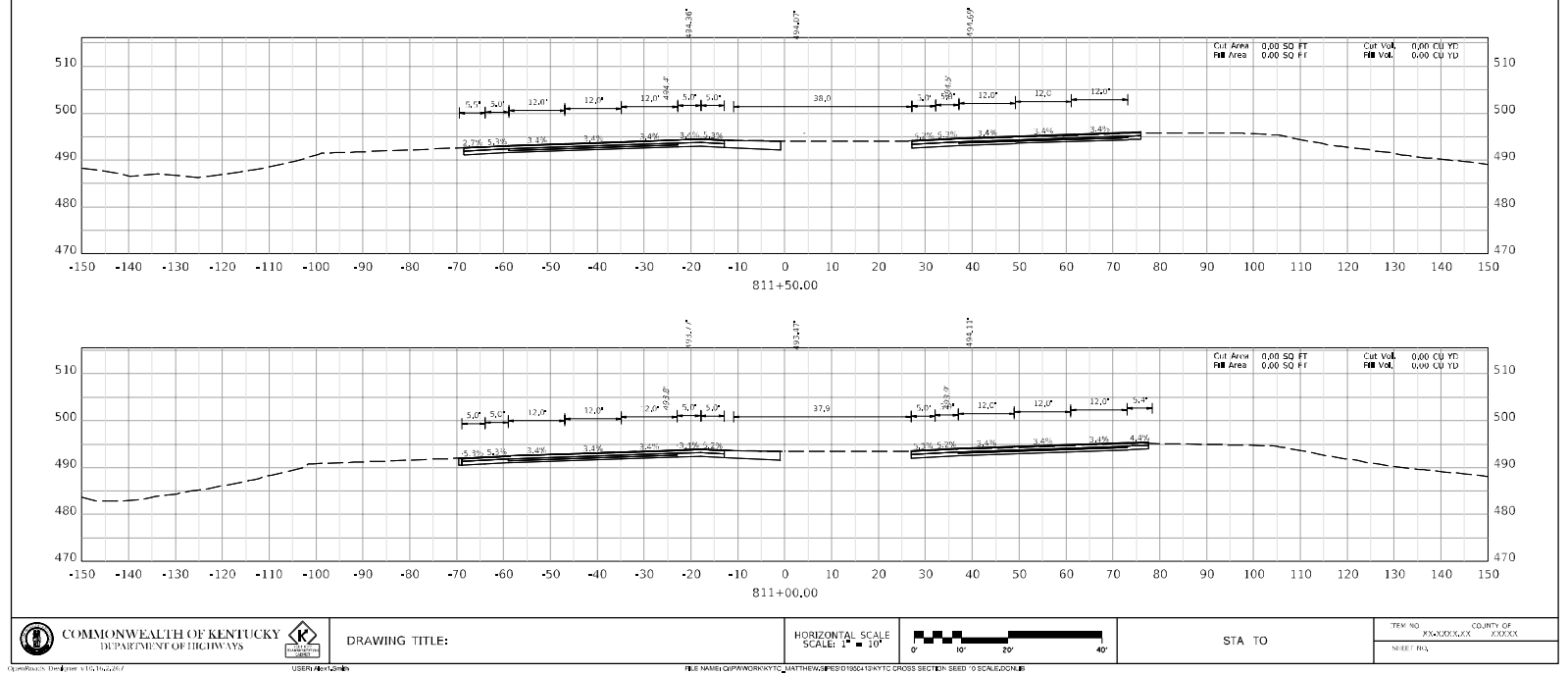


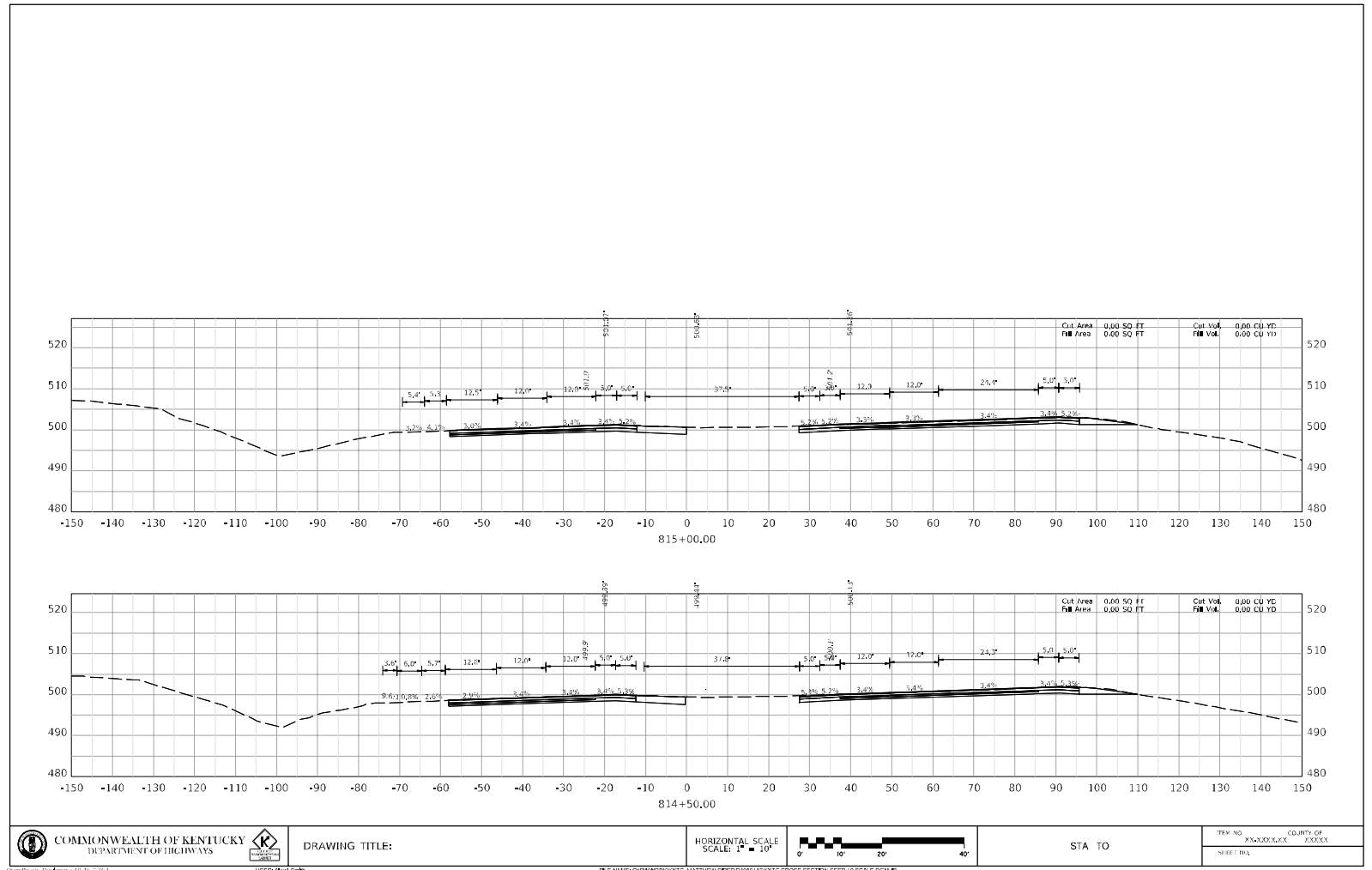
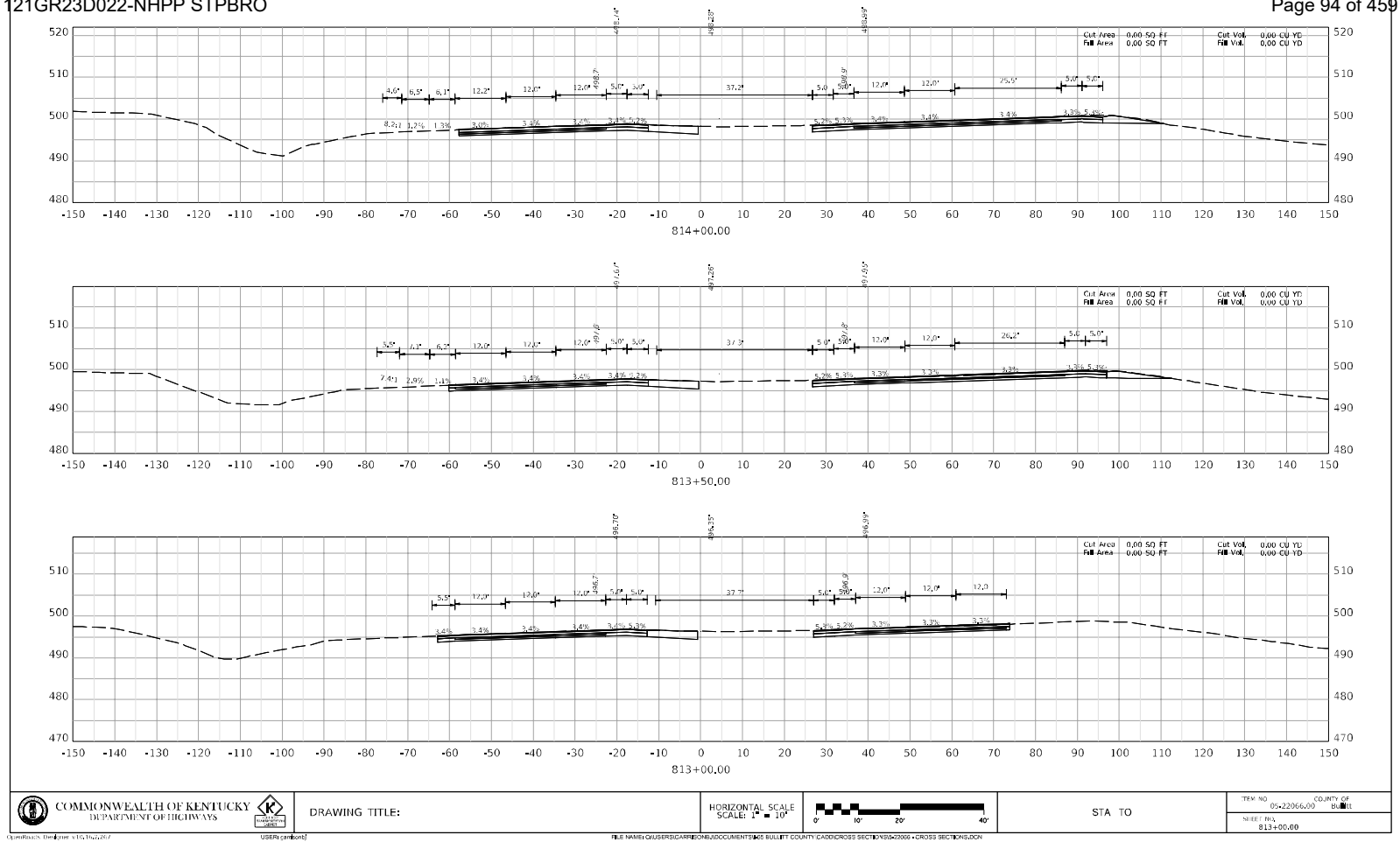


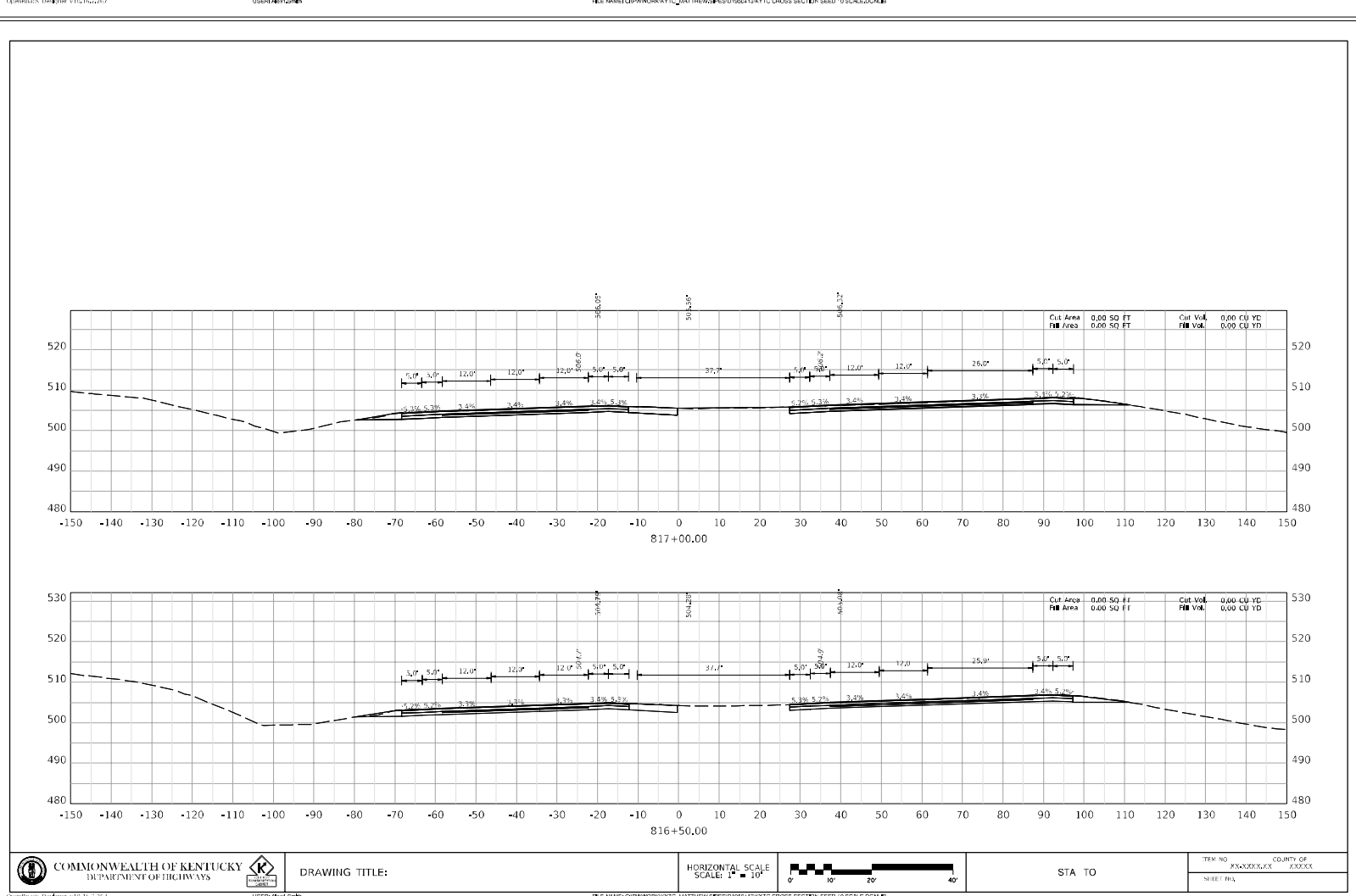
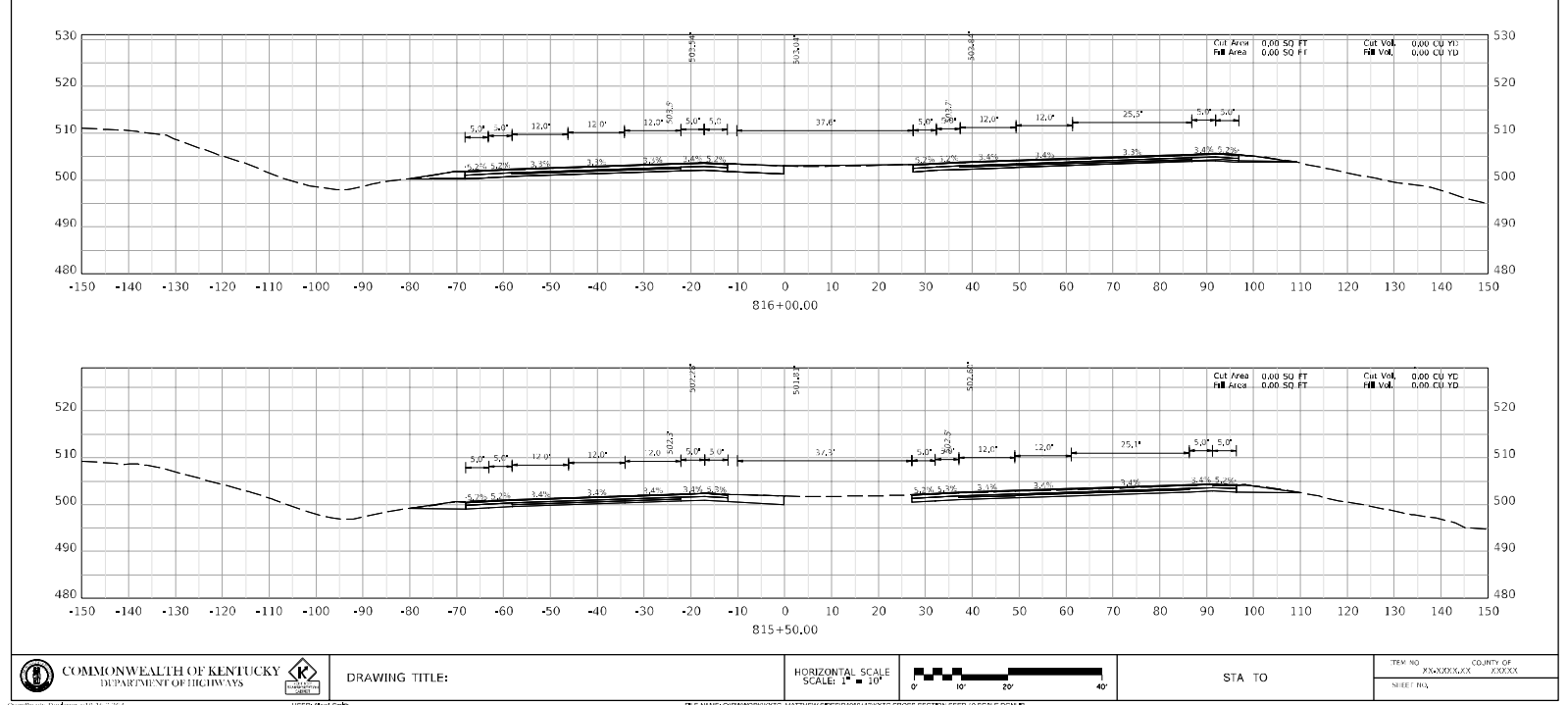


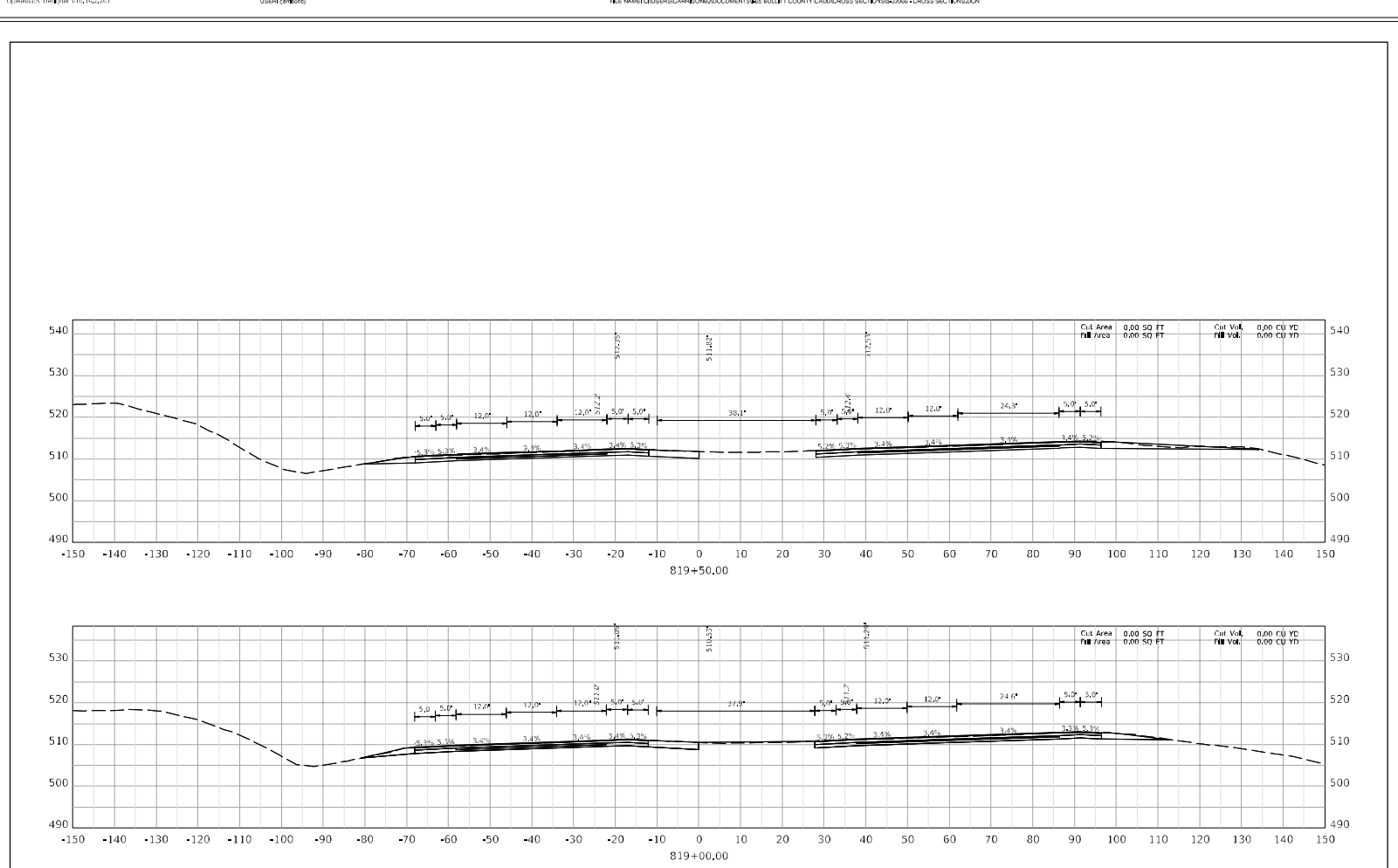
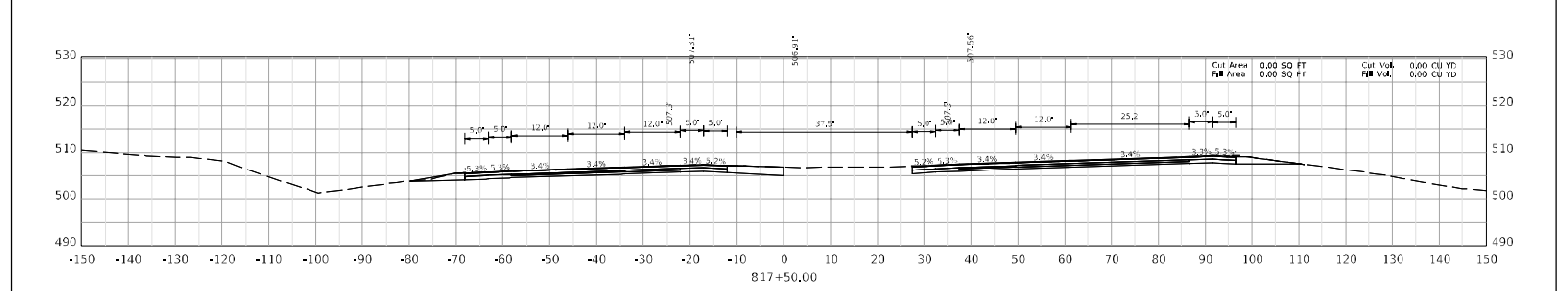




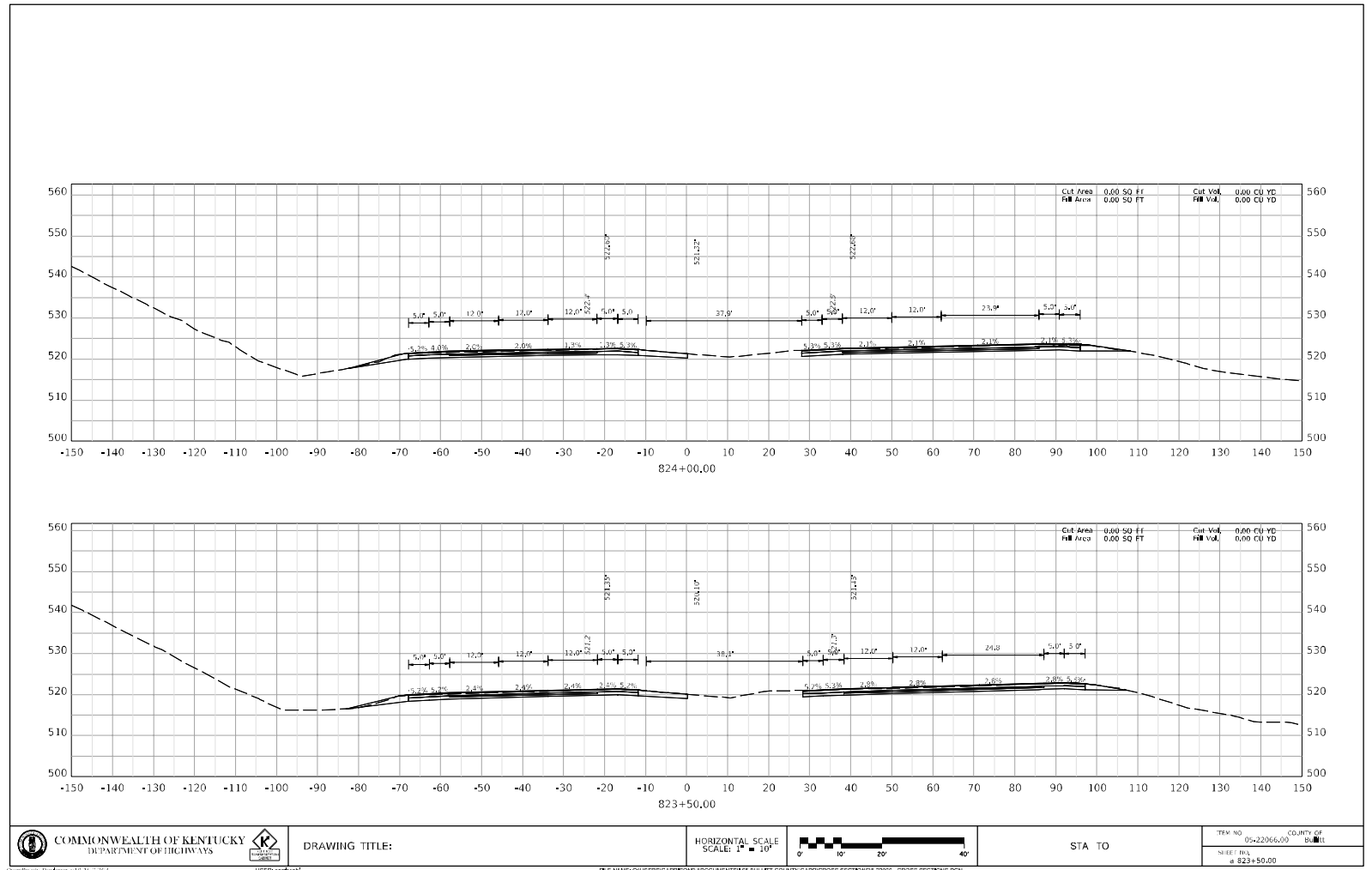
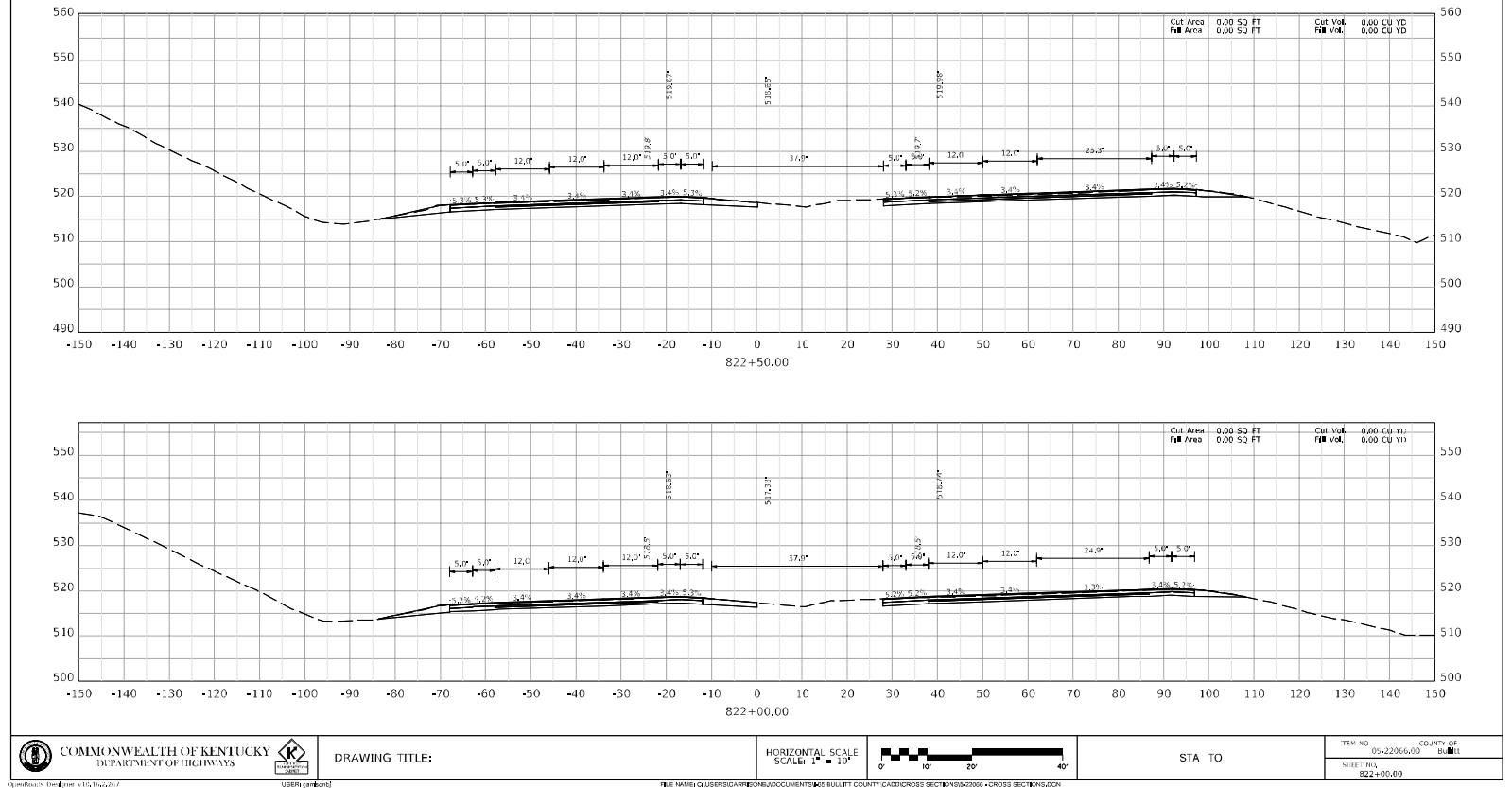




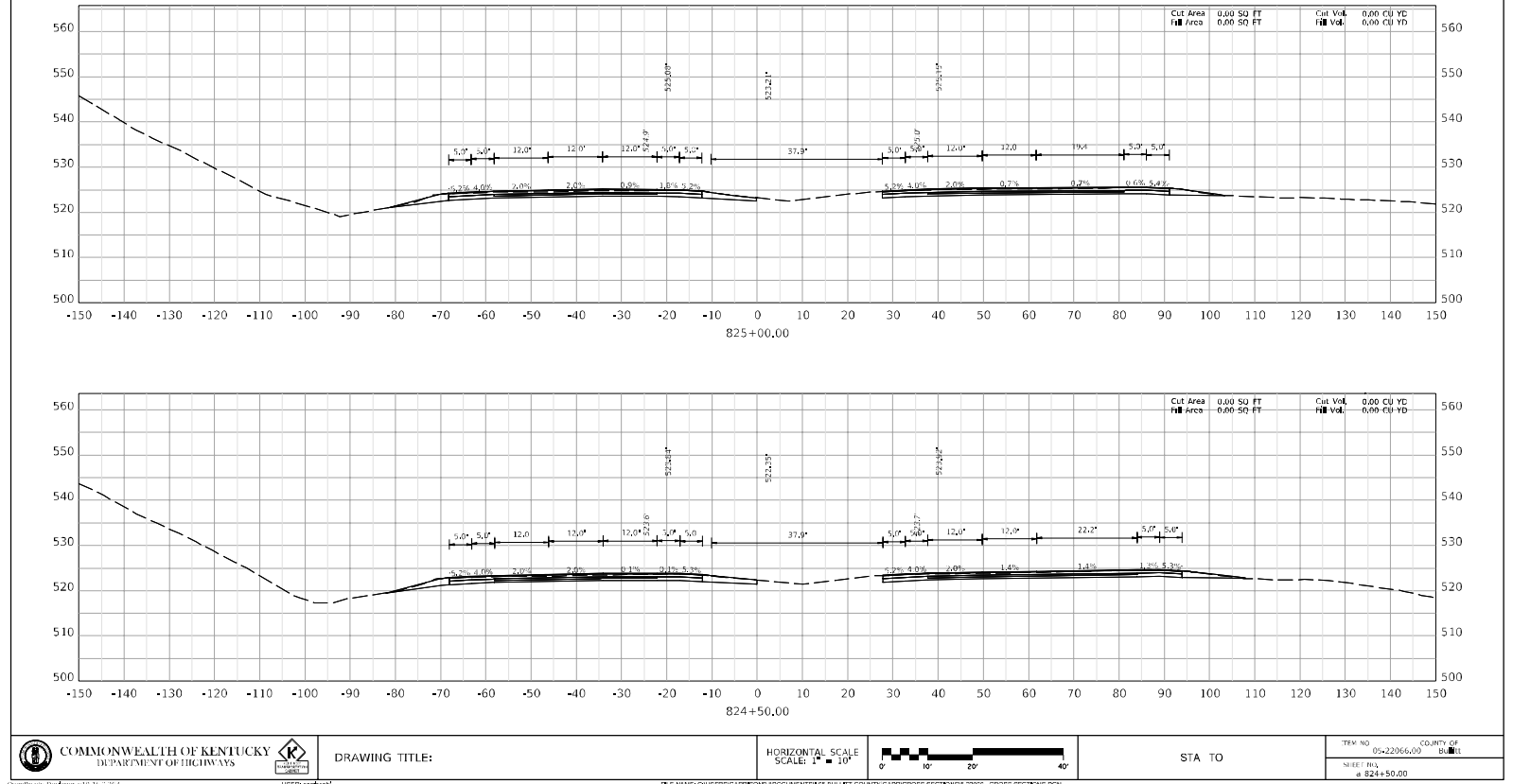






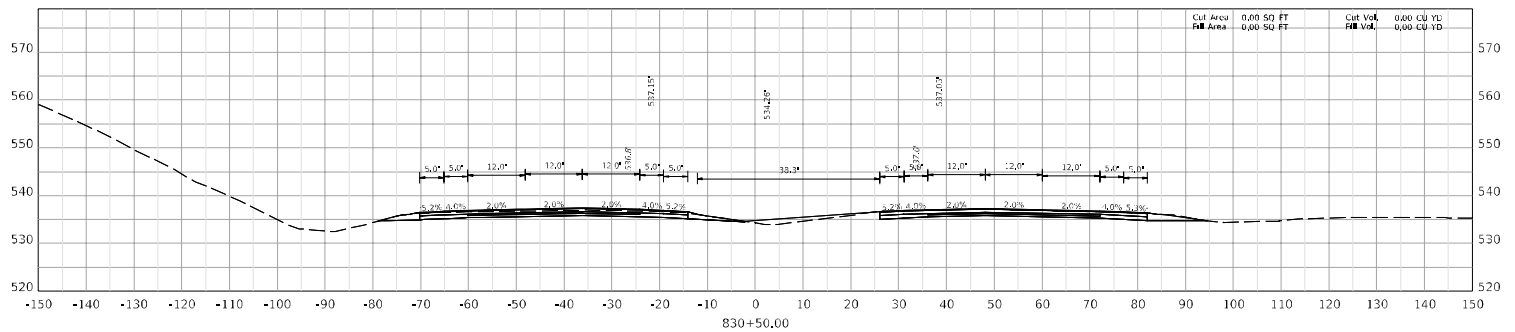


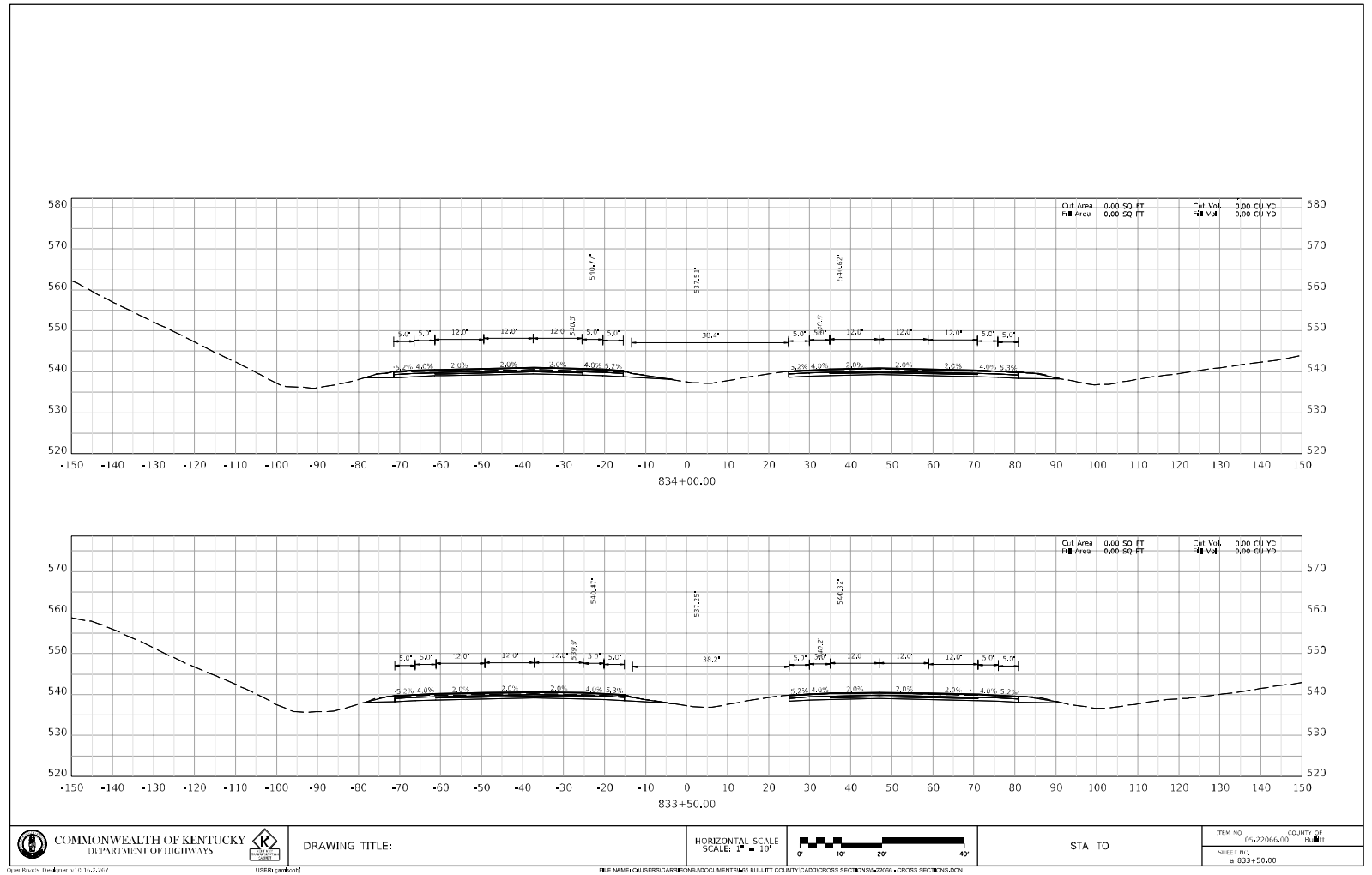
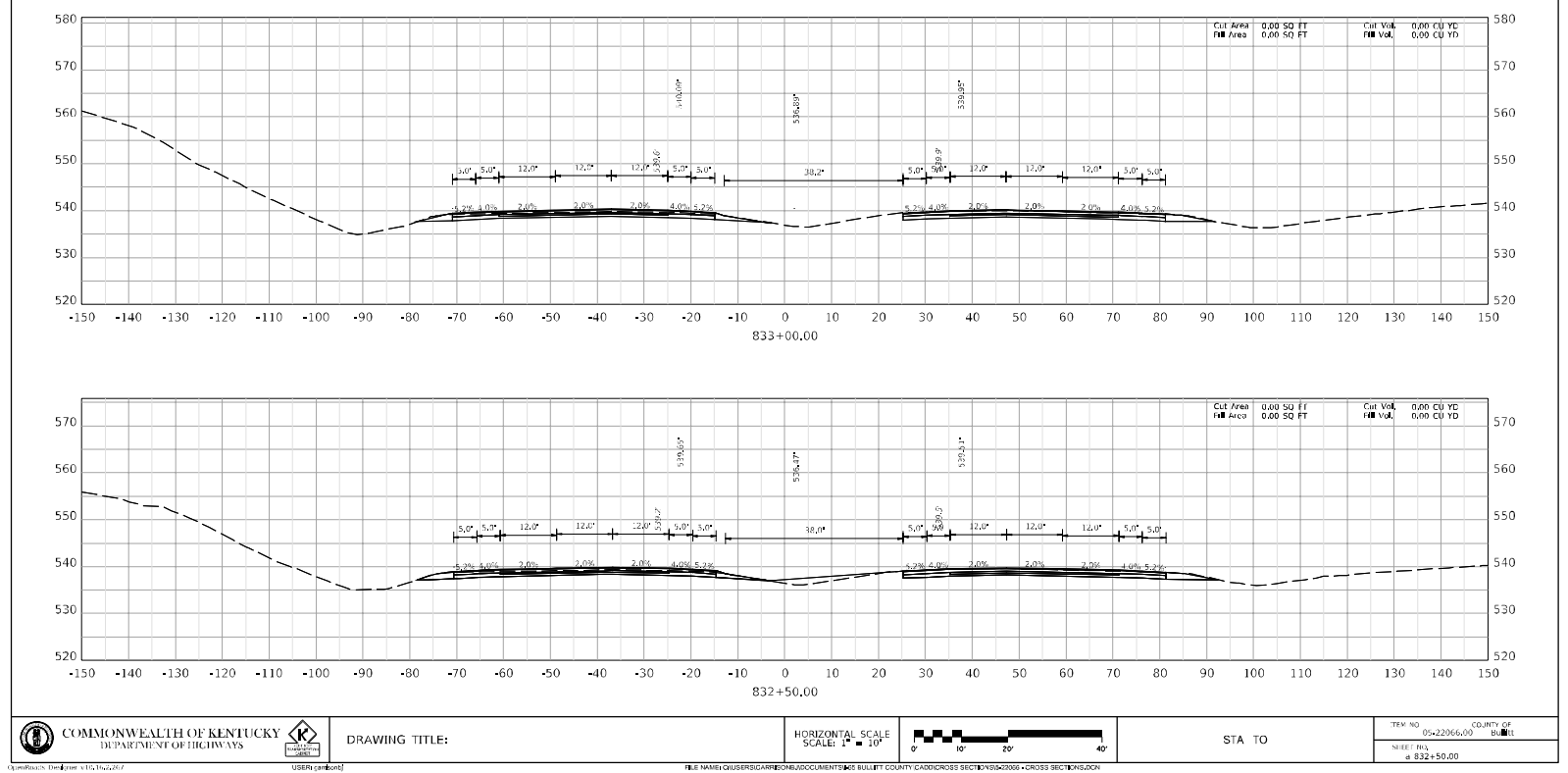


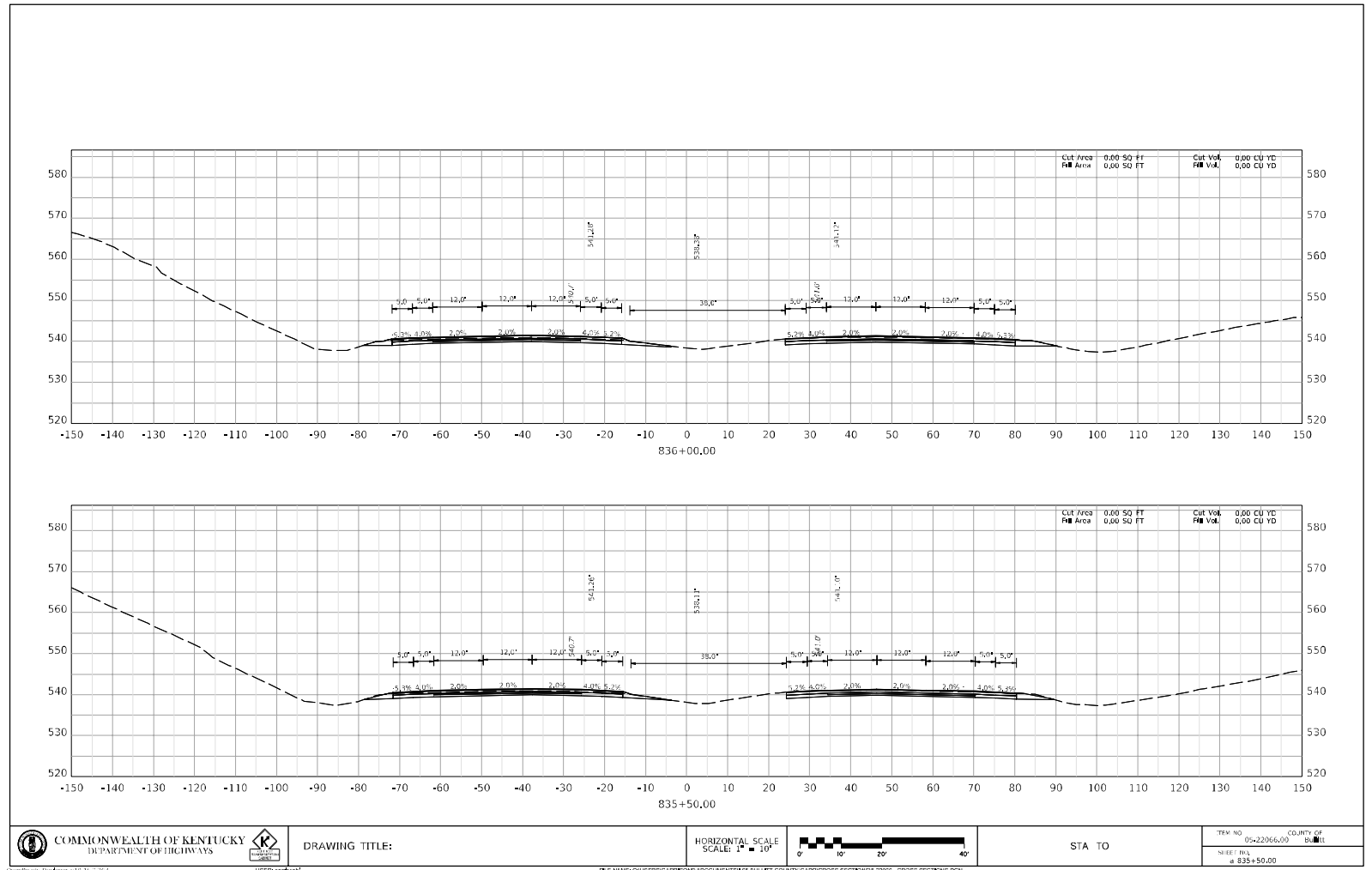
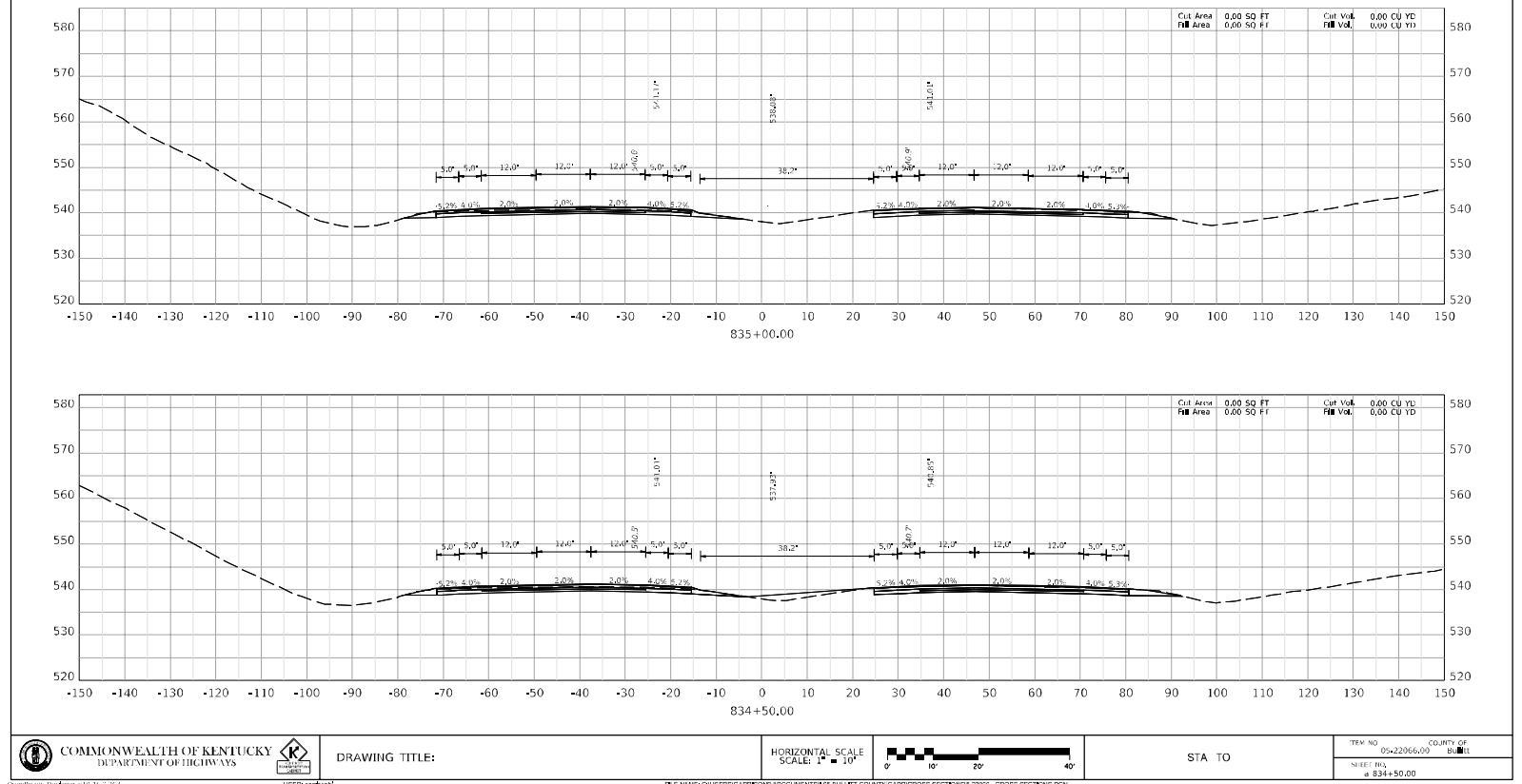


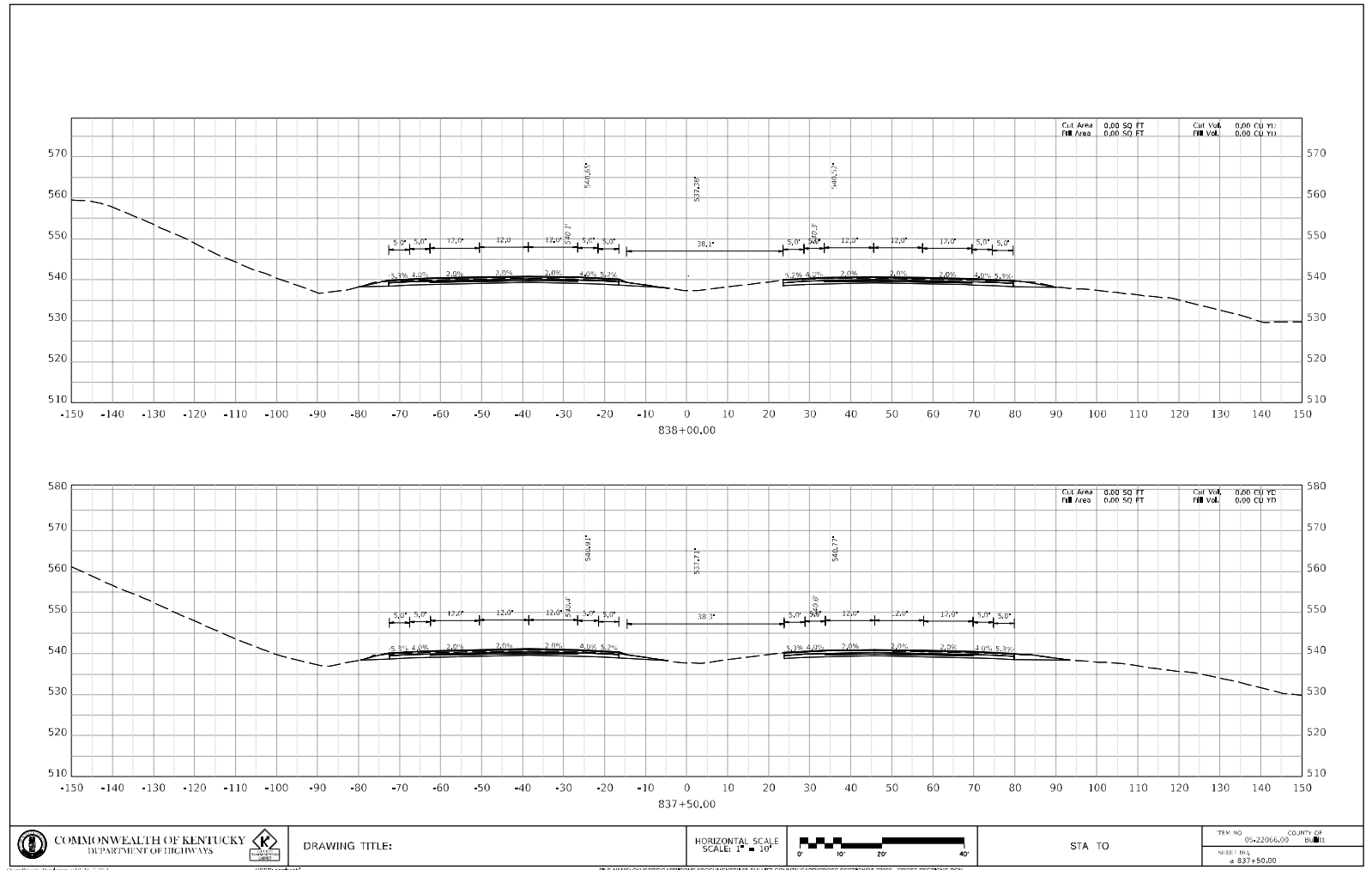
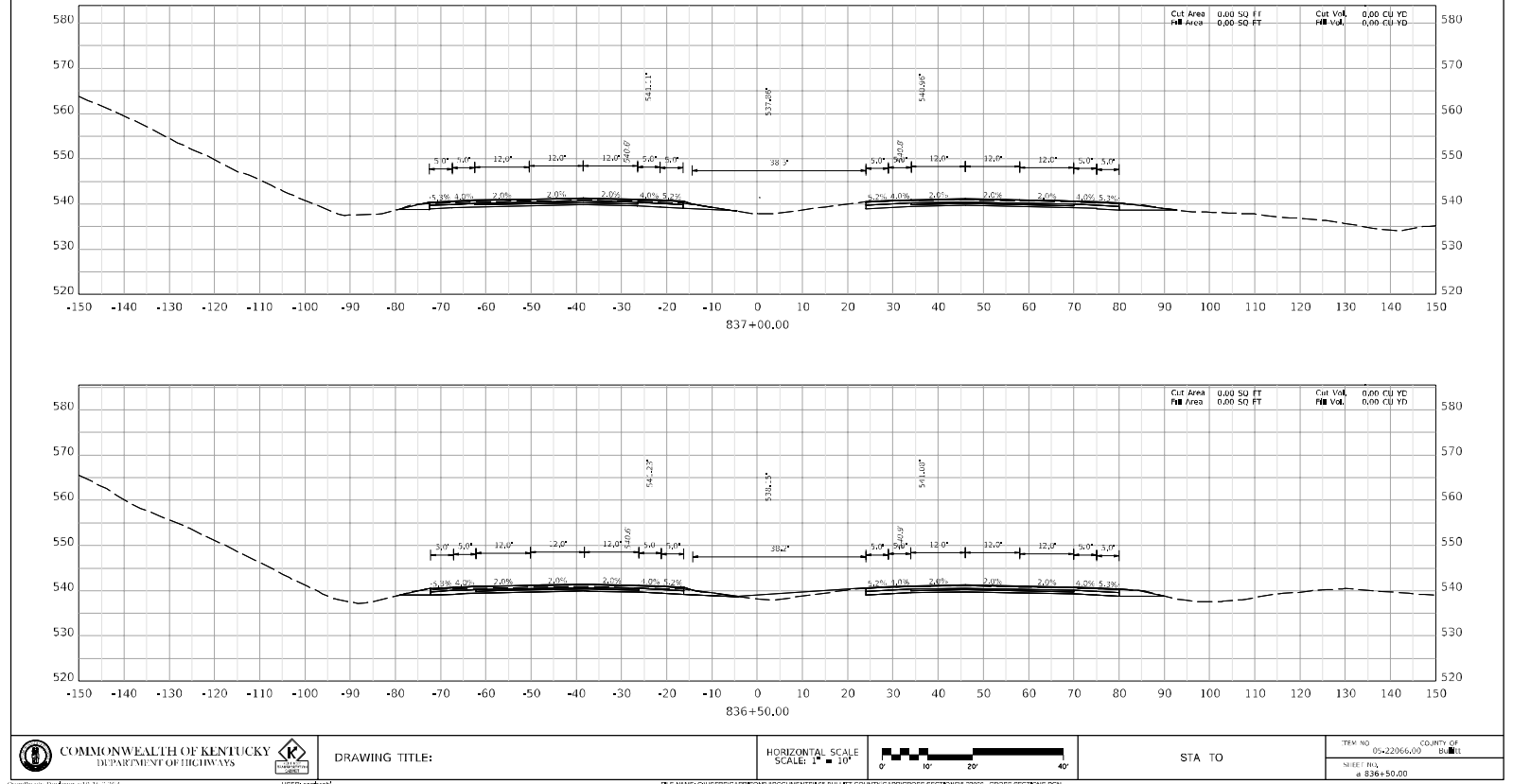


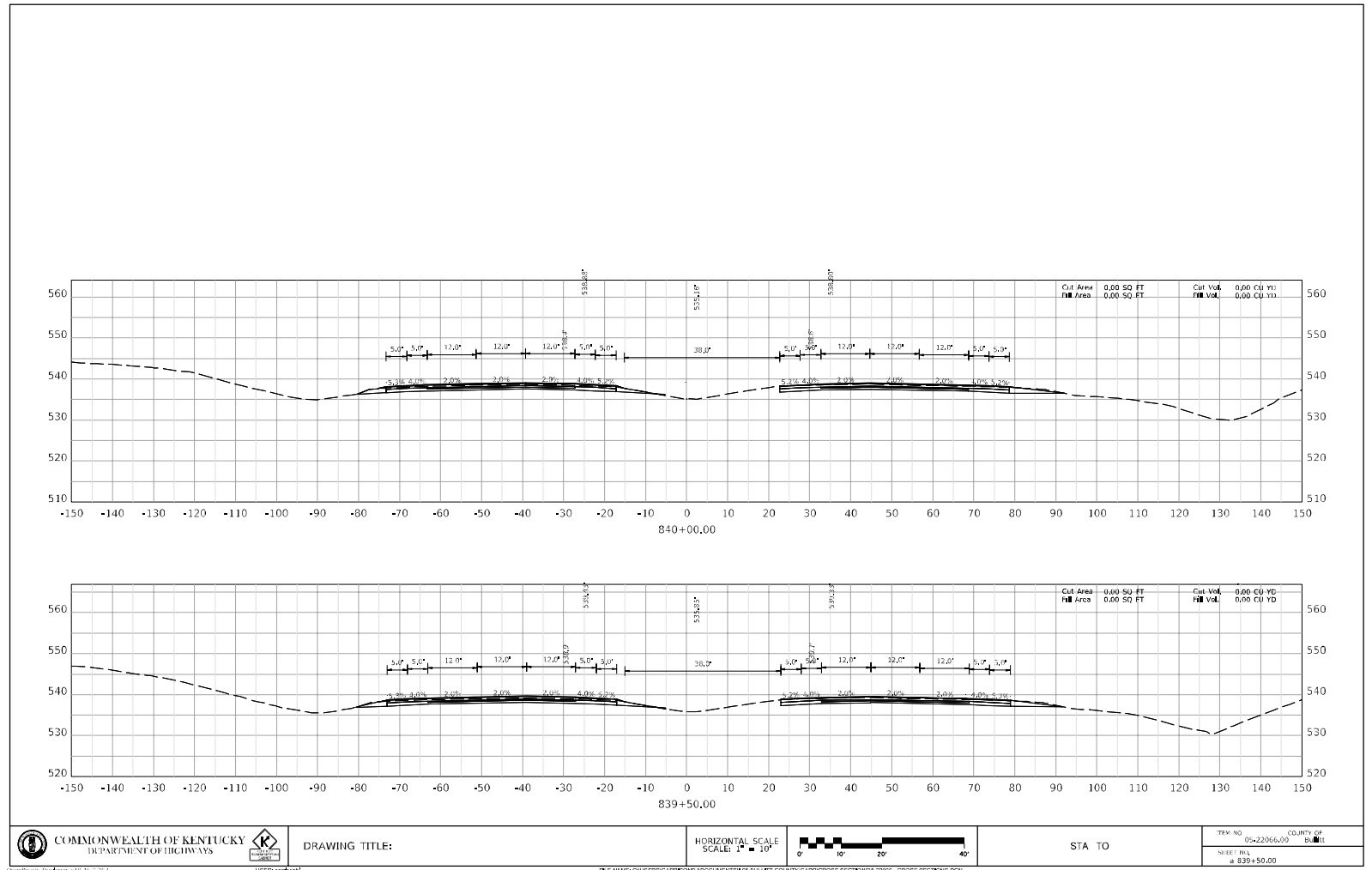
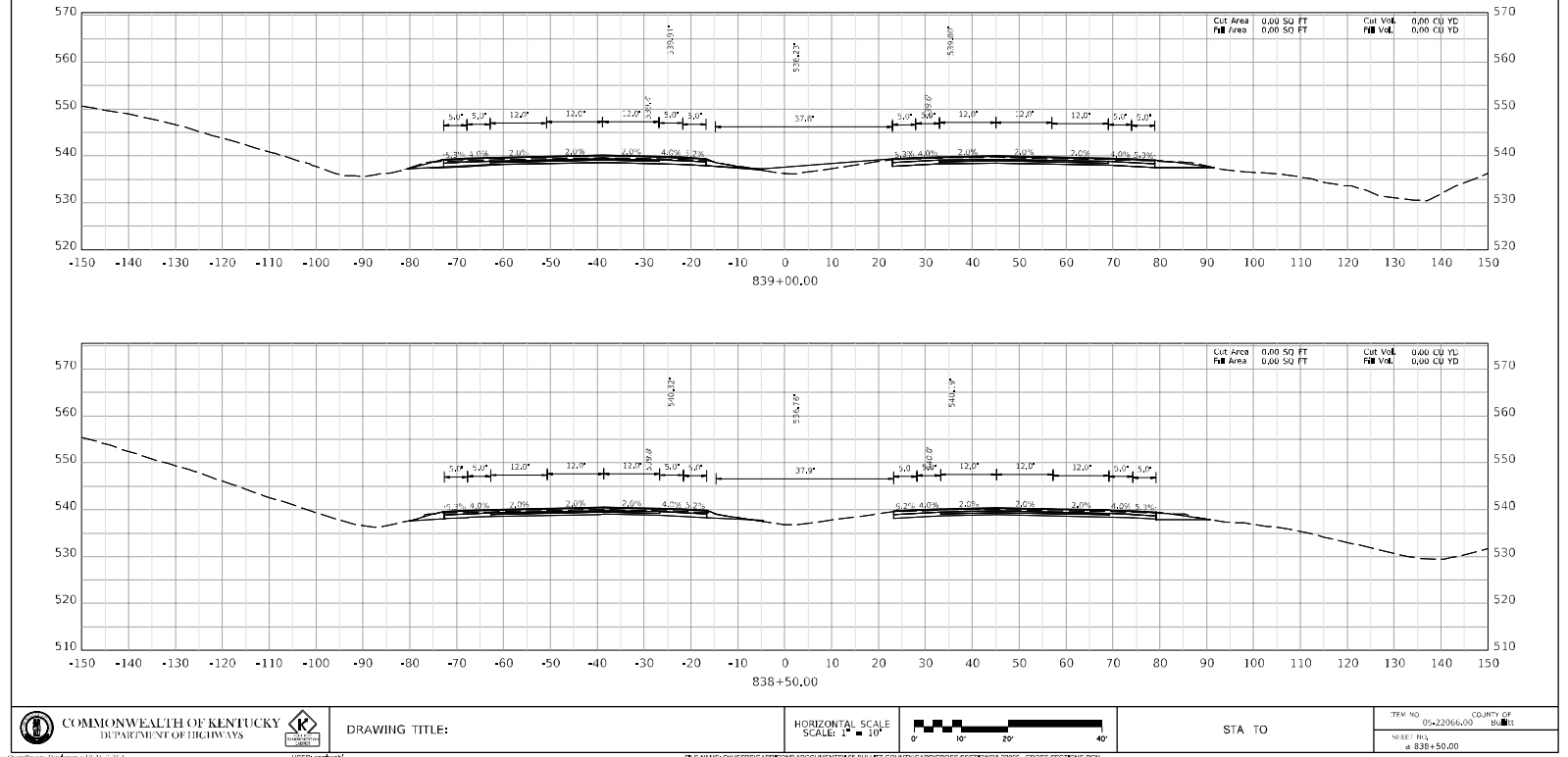
<b>COMMONWEALTH OF KENTUCKY</b> DEPARTMENT OF HIGHWAYS	 KDOT	DRAWING TITLE:	HORIZONTAL SCALE SCALE: 1" = 100'	 0' 10' 20' 40'	STA TO	TRM NO. COUNTY OF
						SHEET NO.



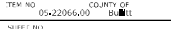


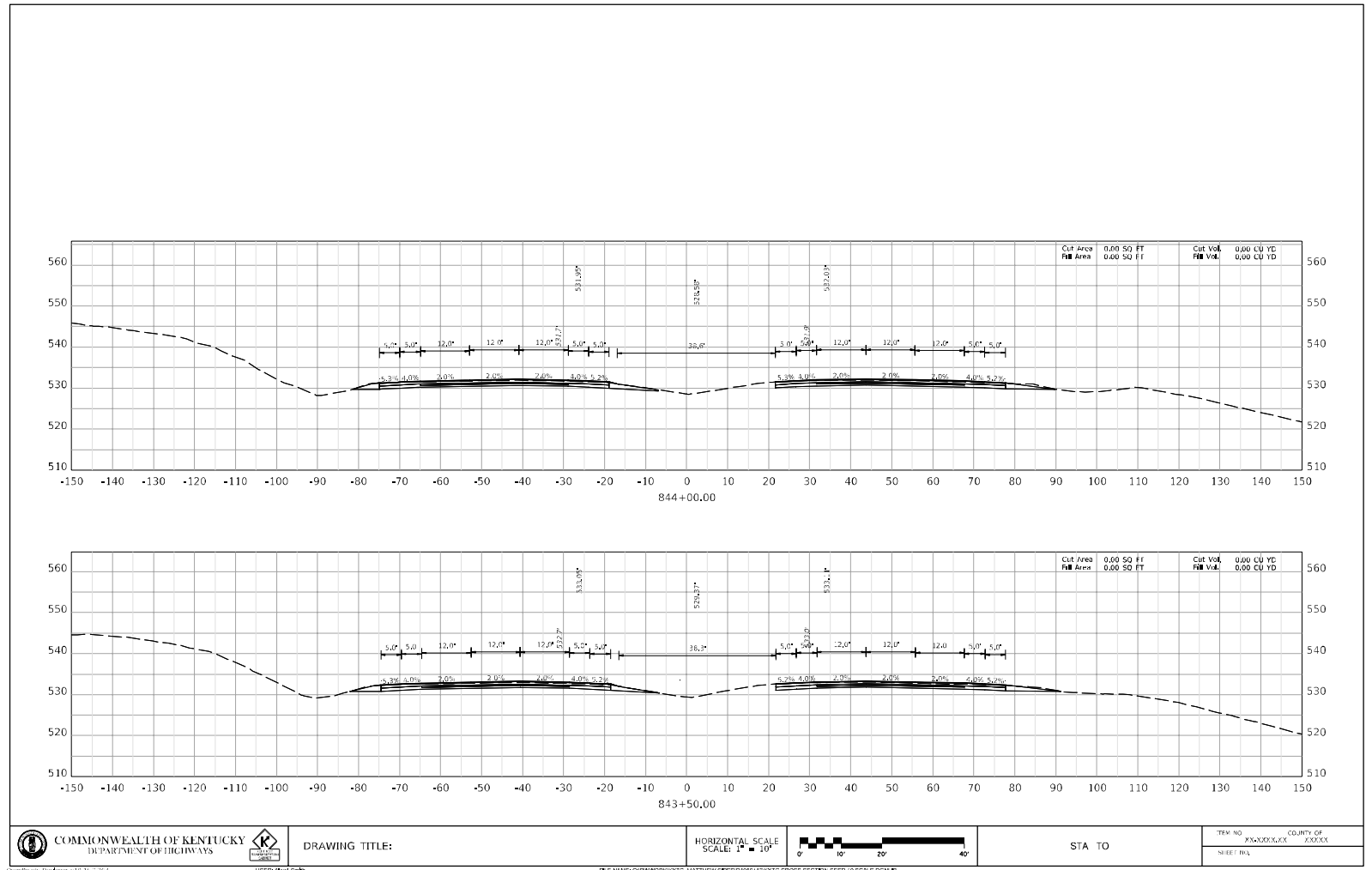
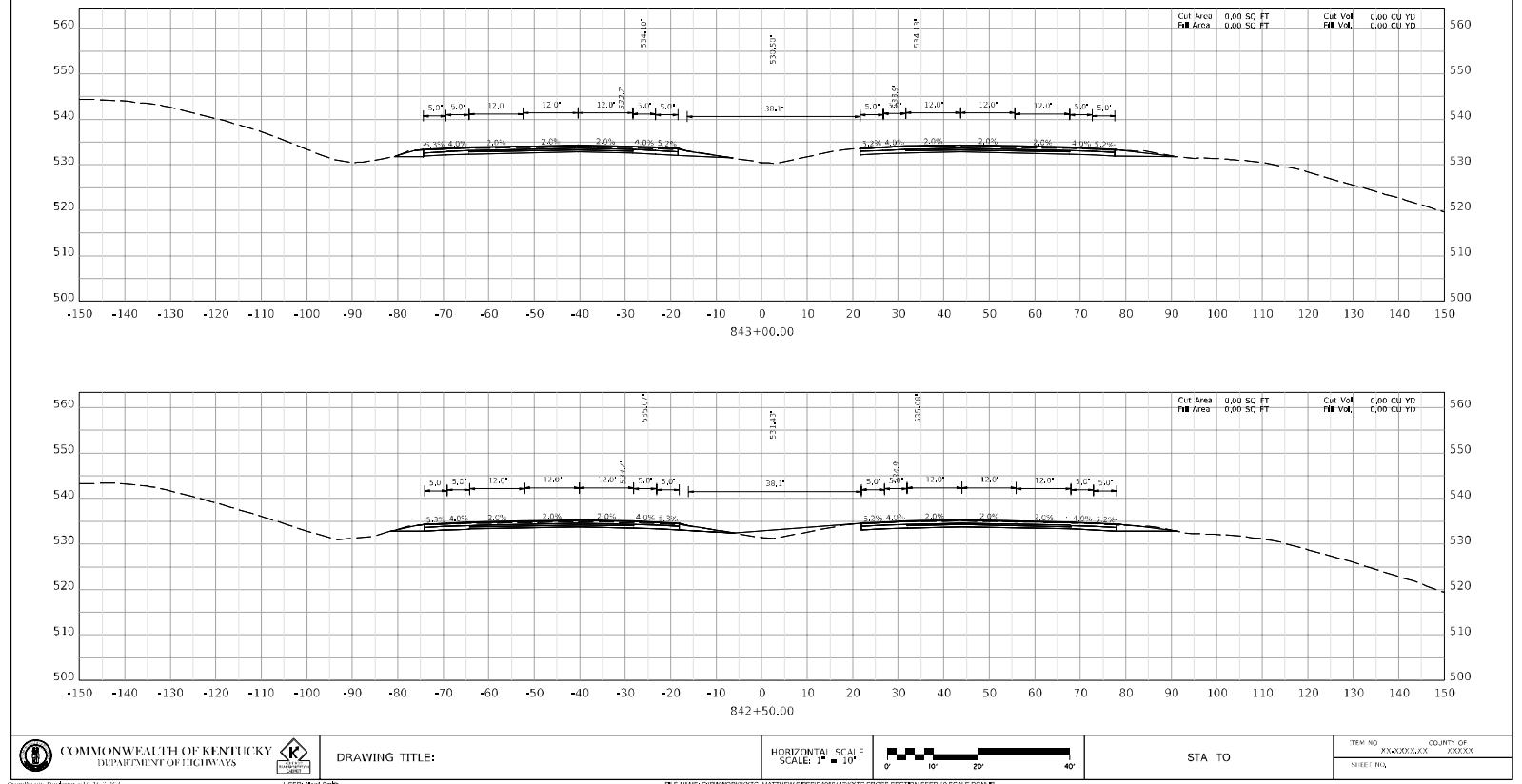


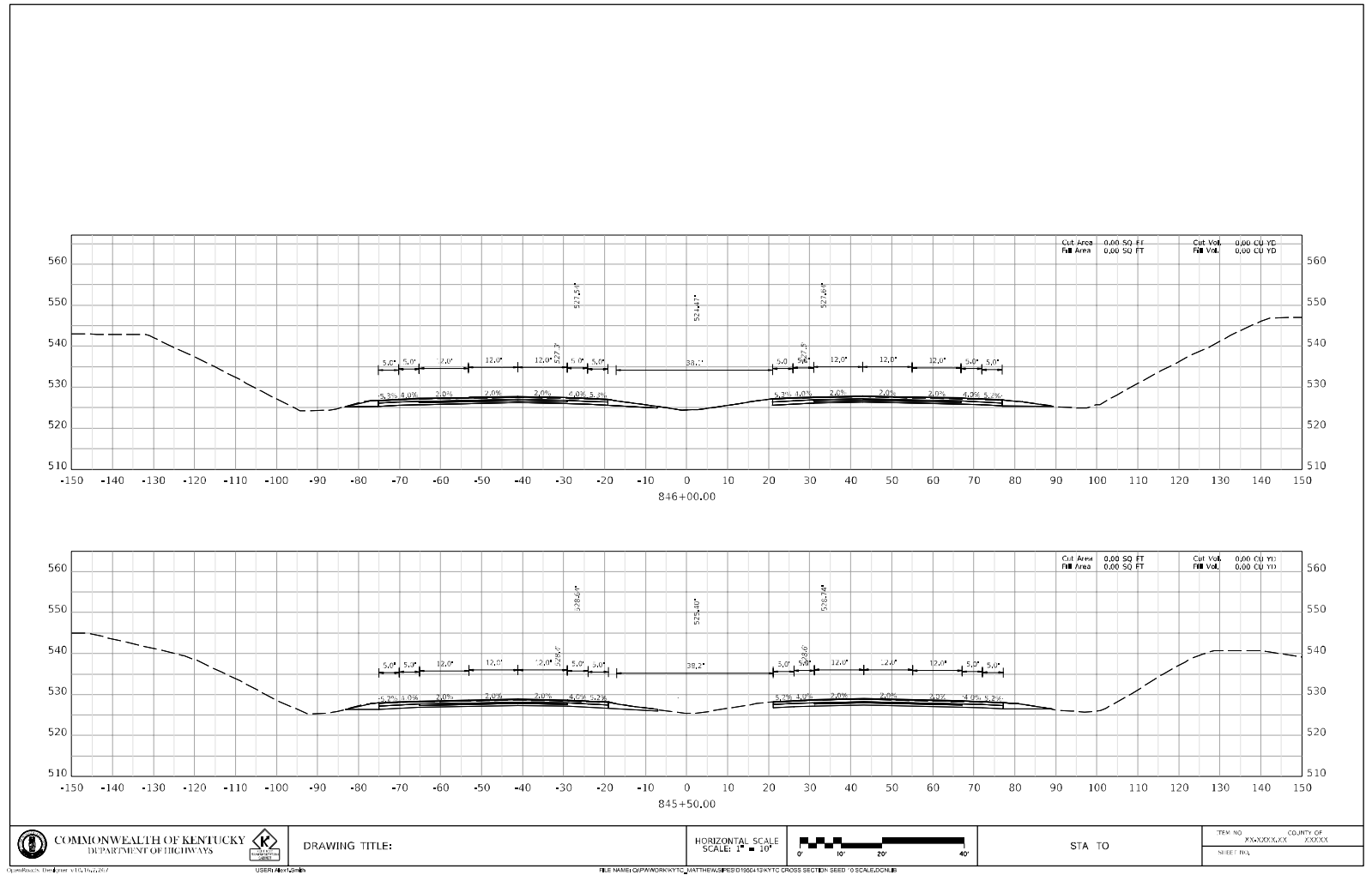
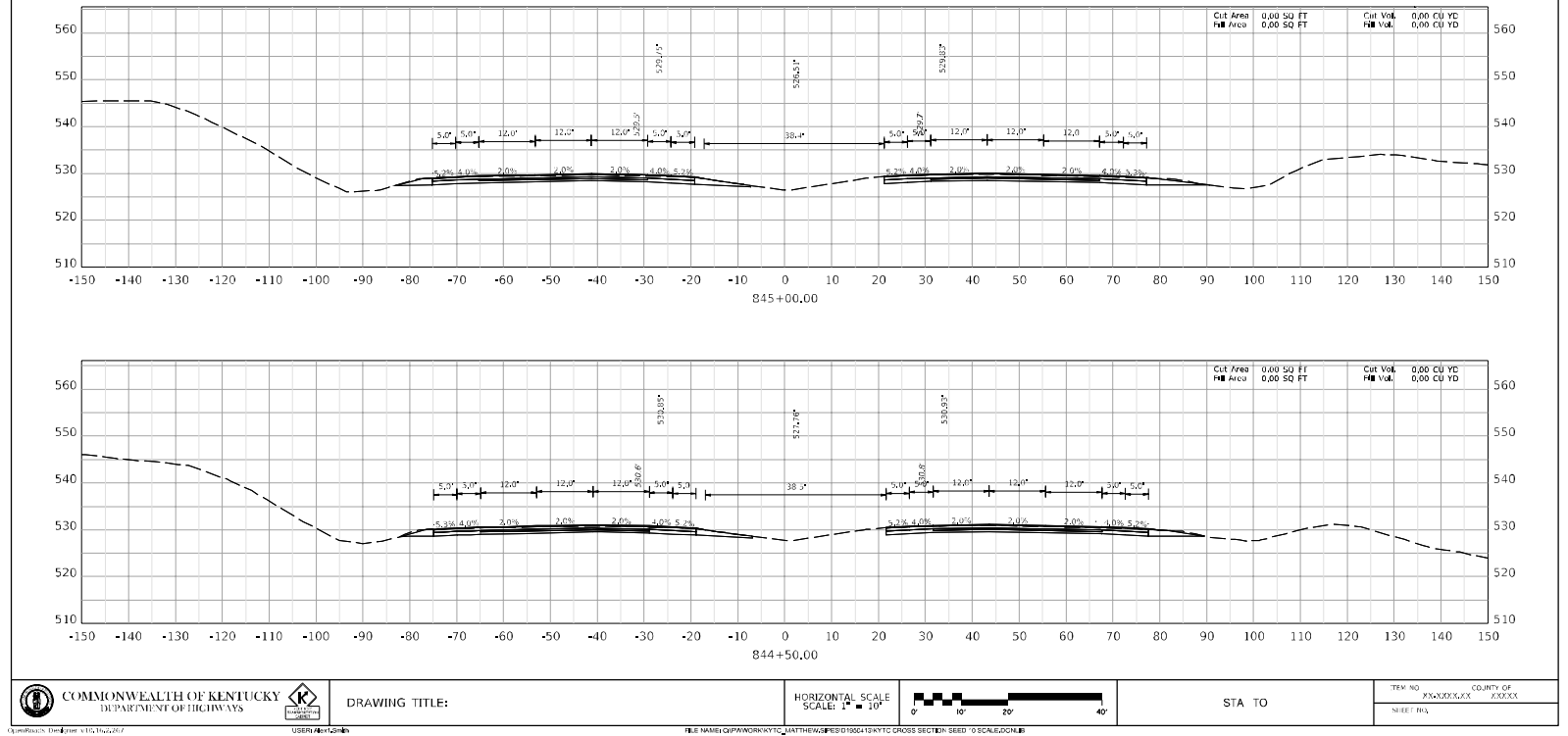


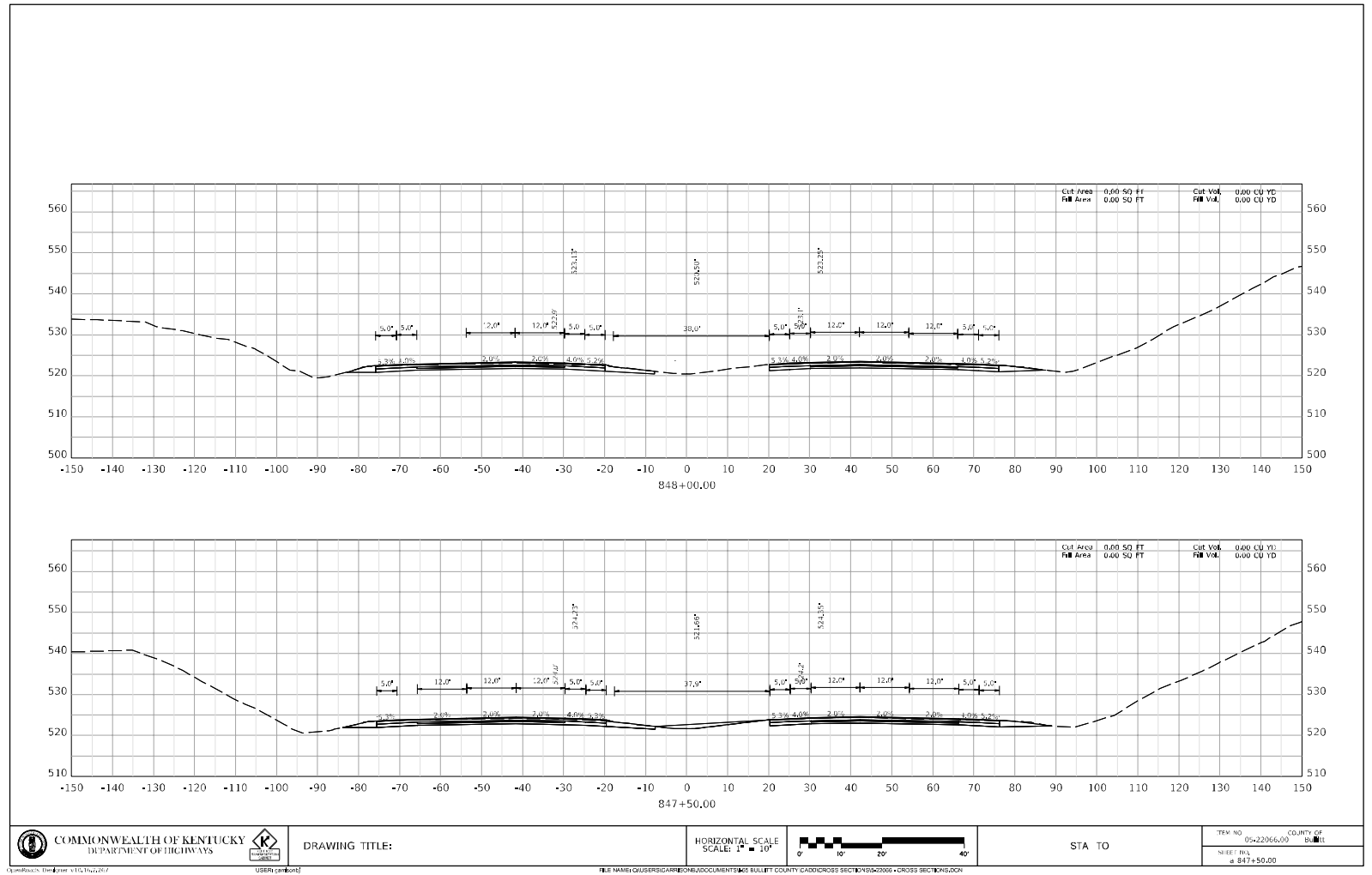
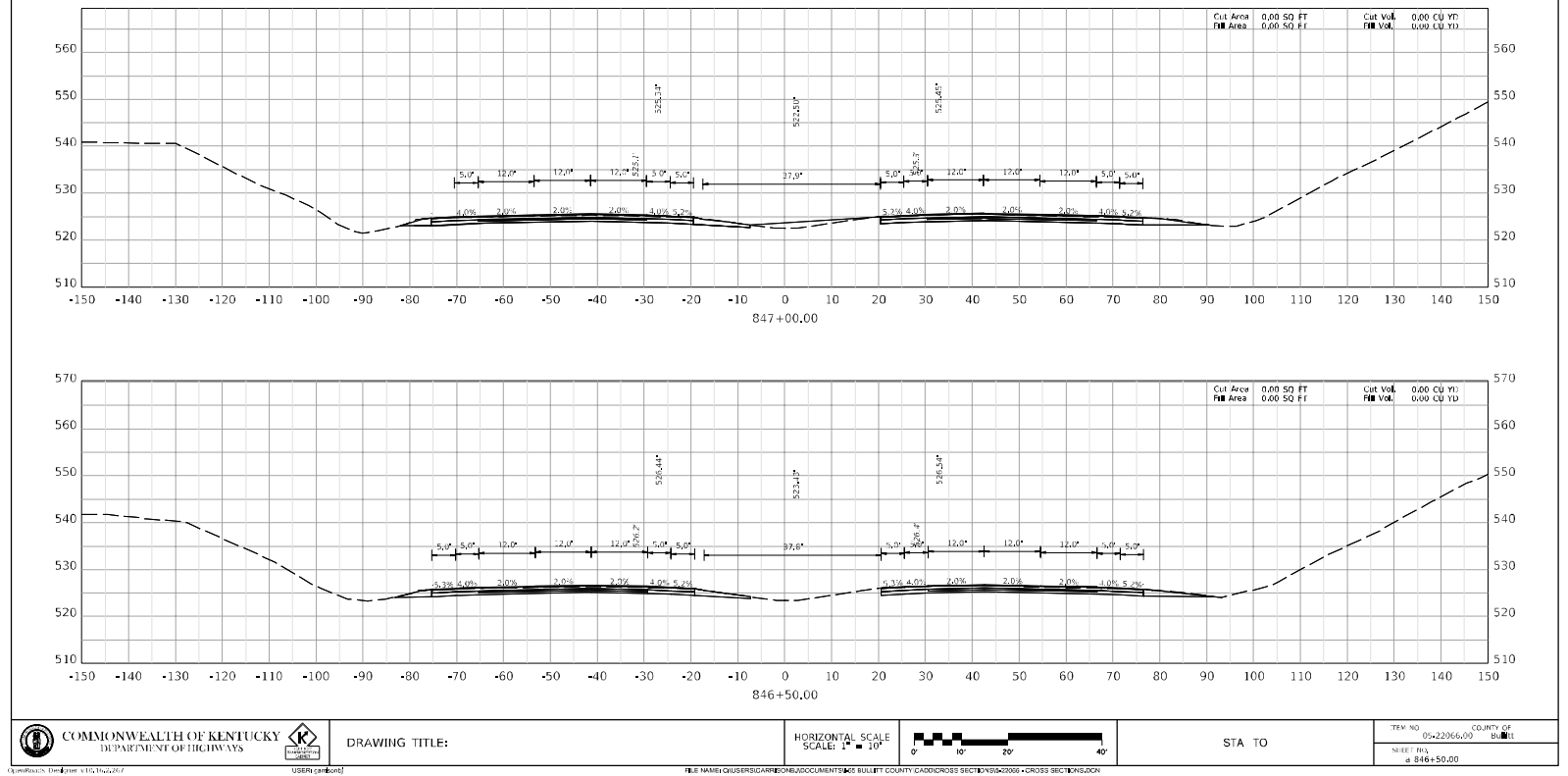


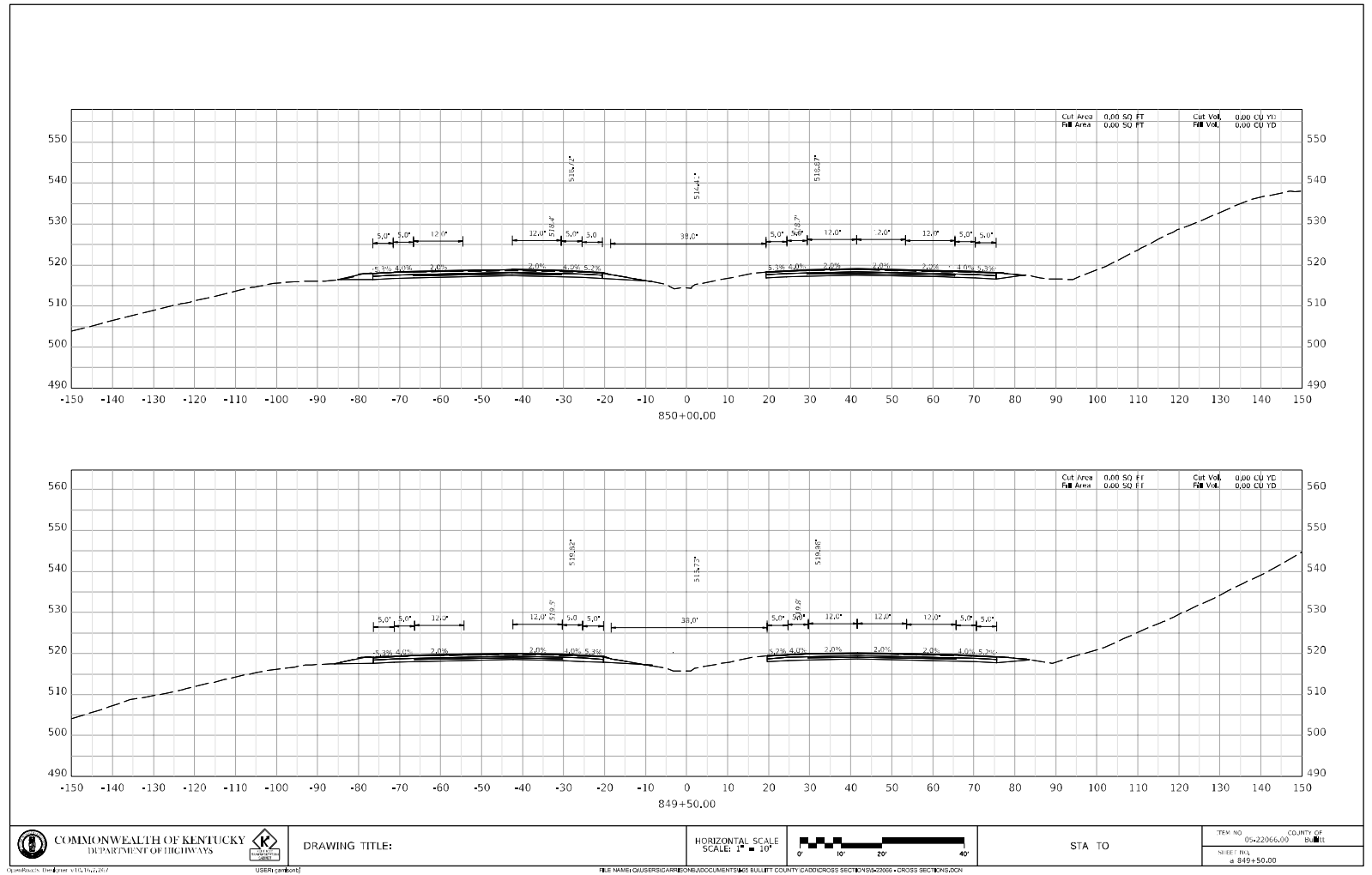
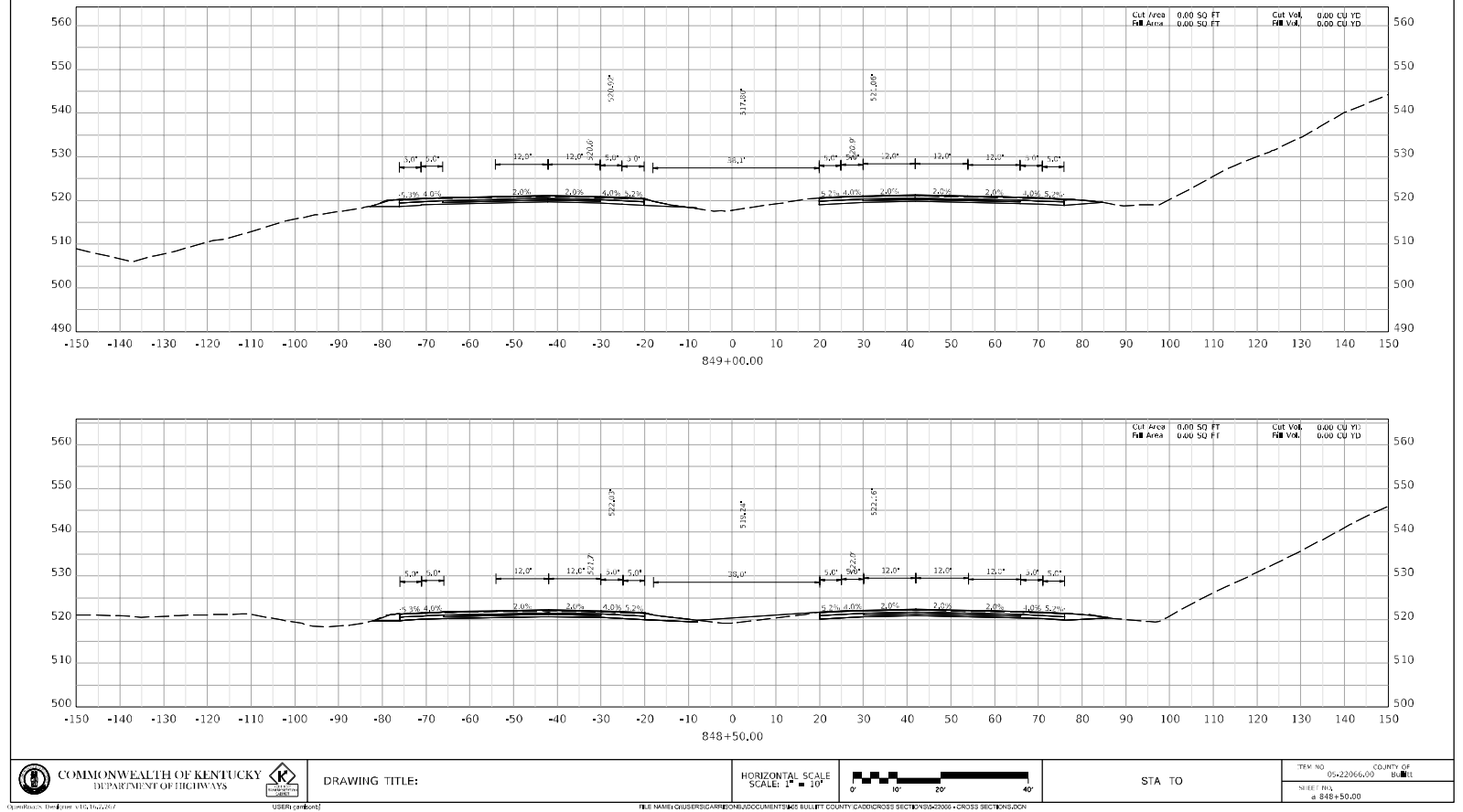


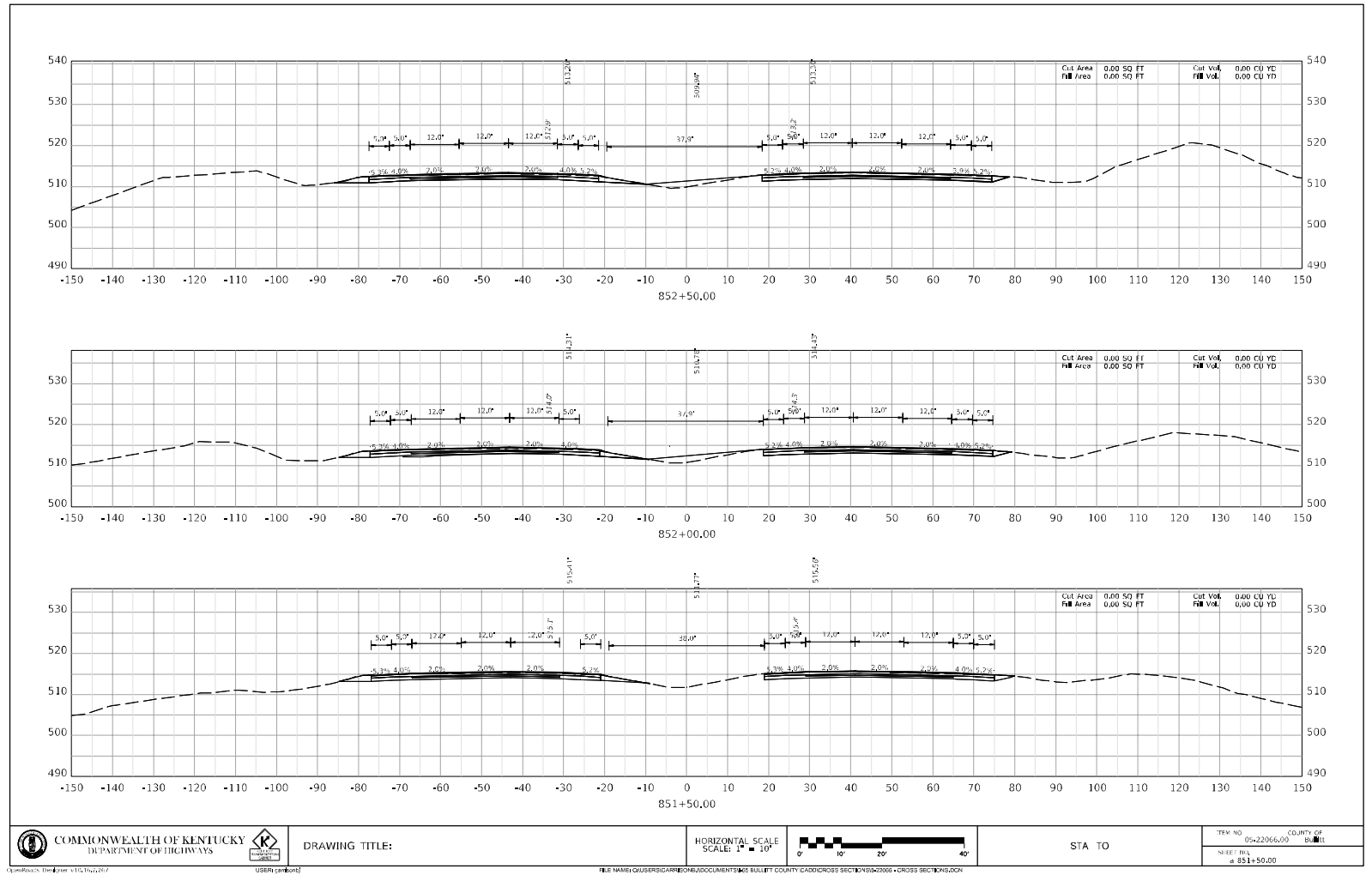
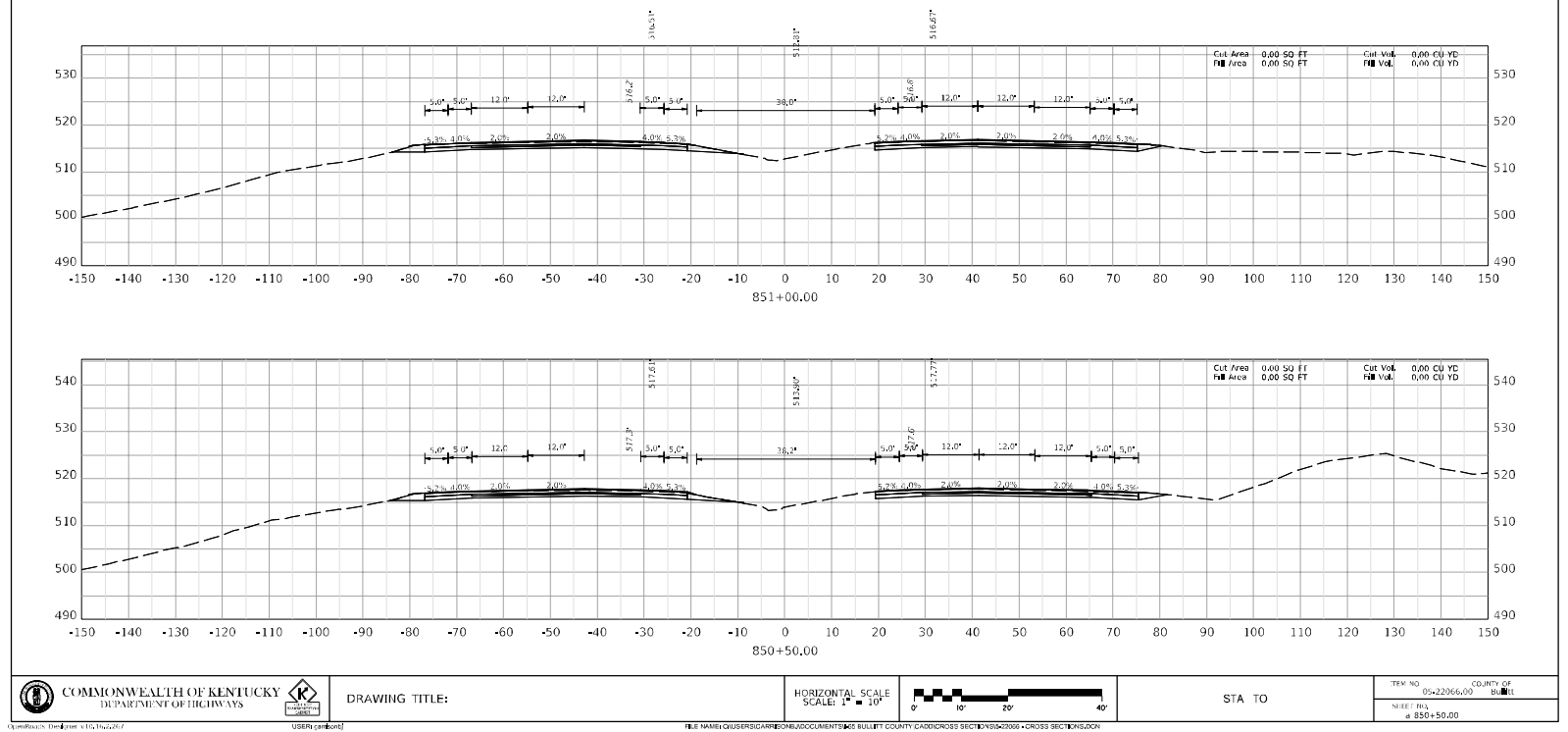


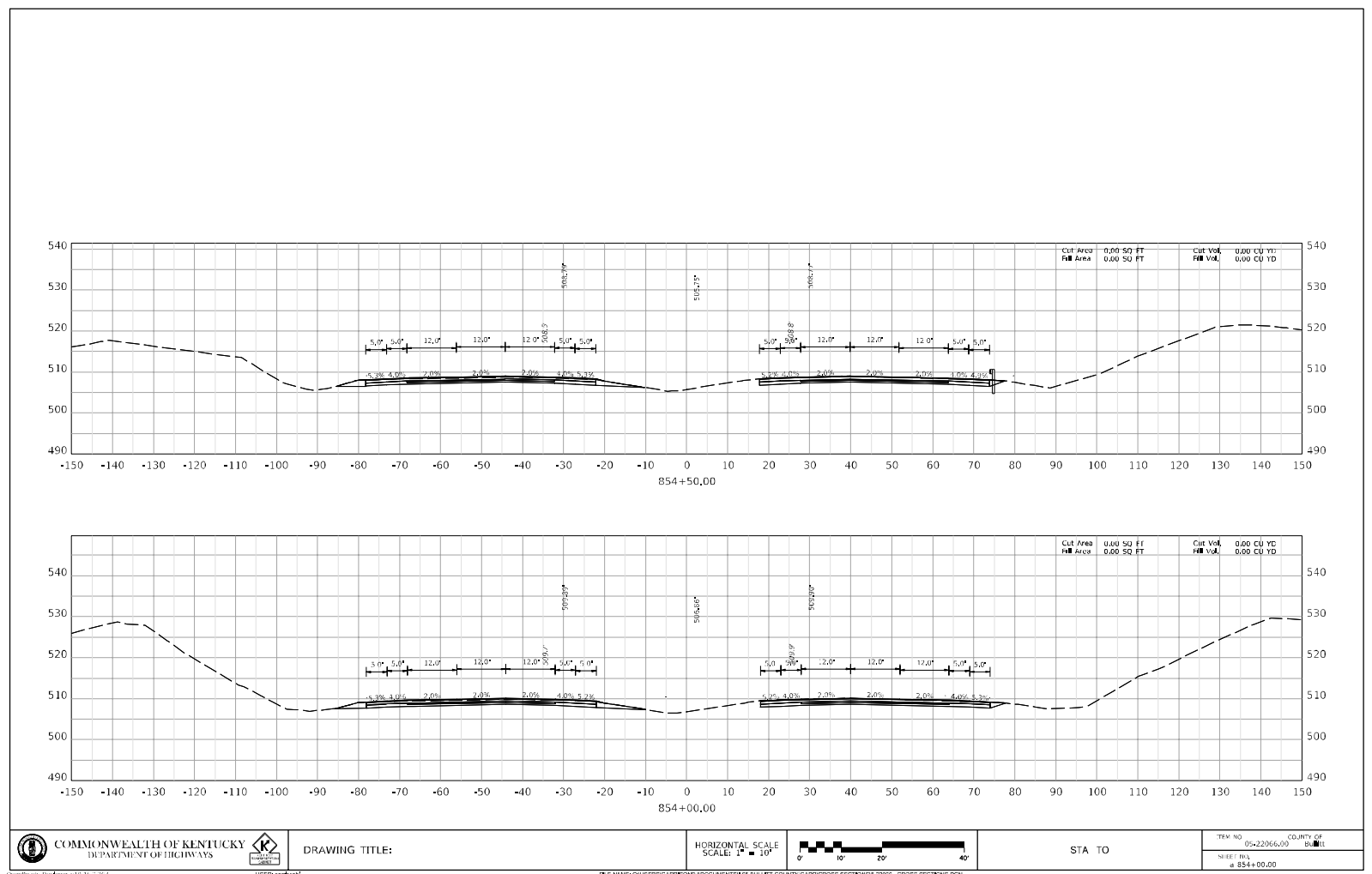
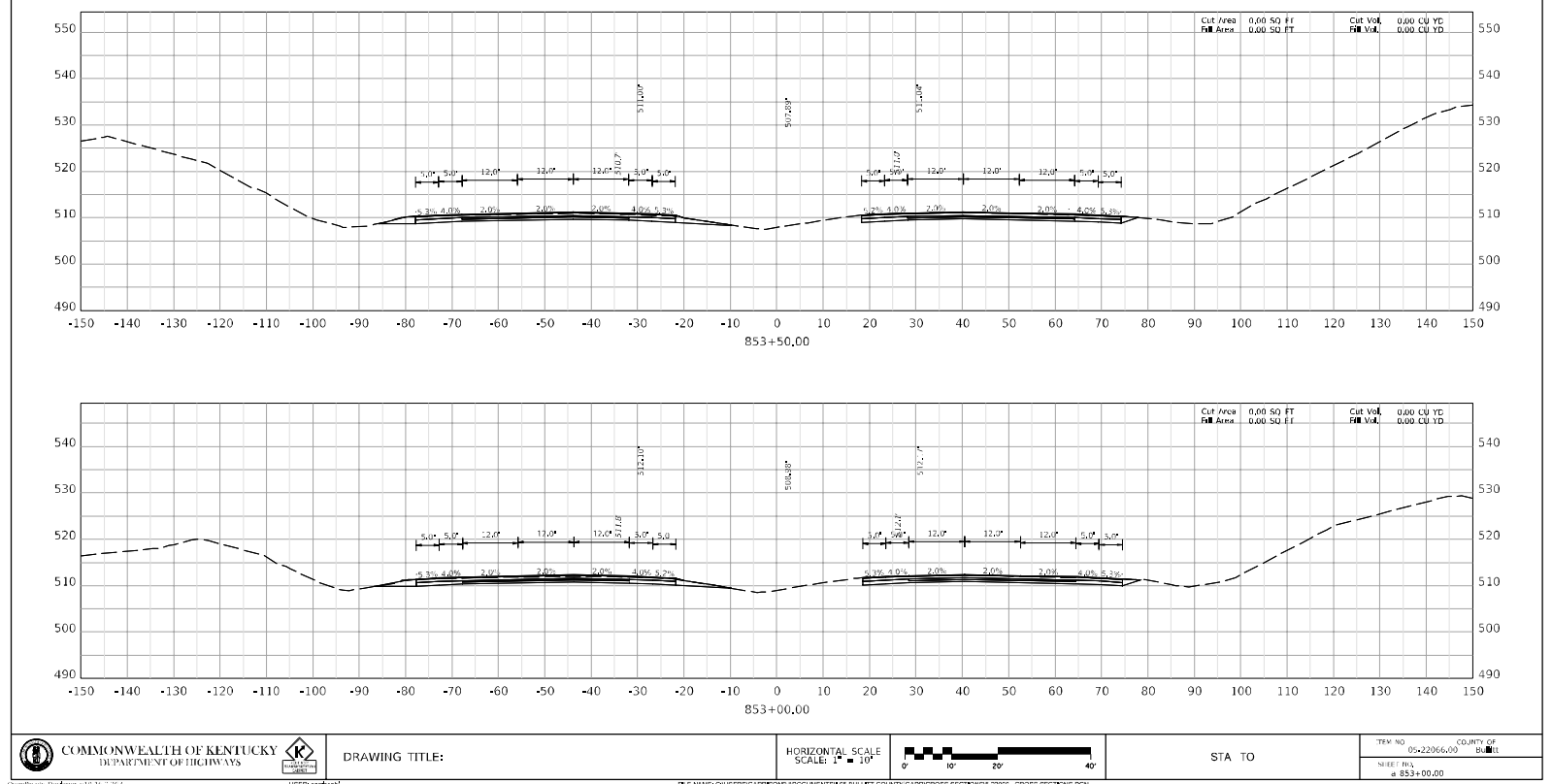






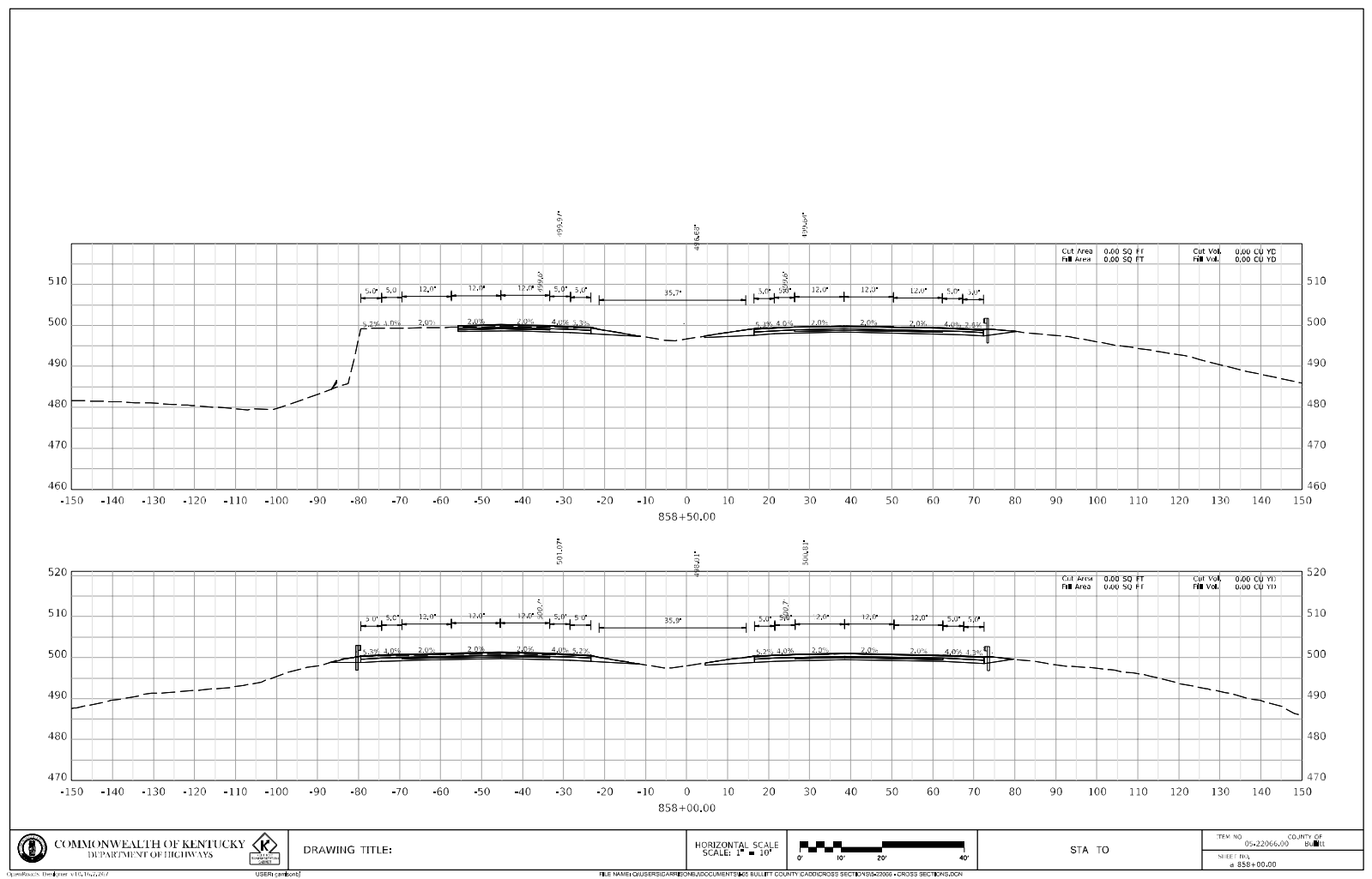
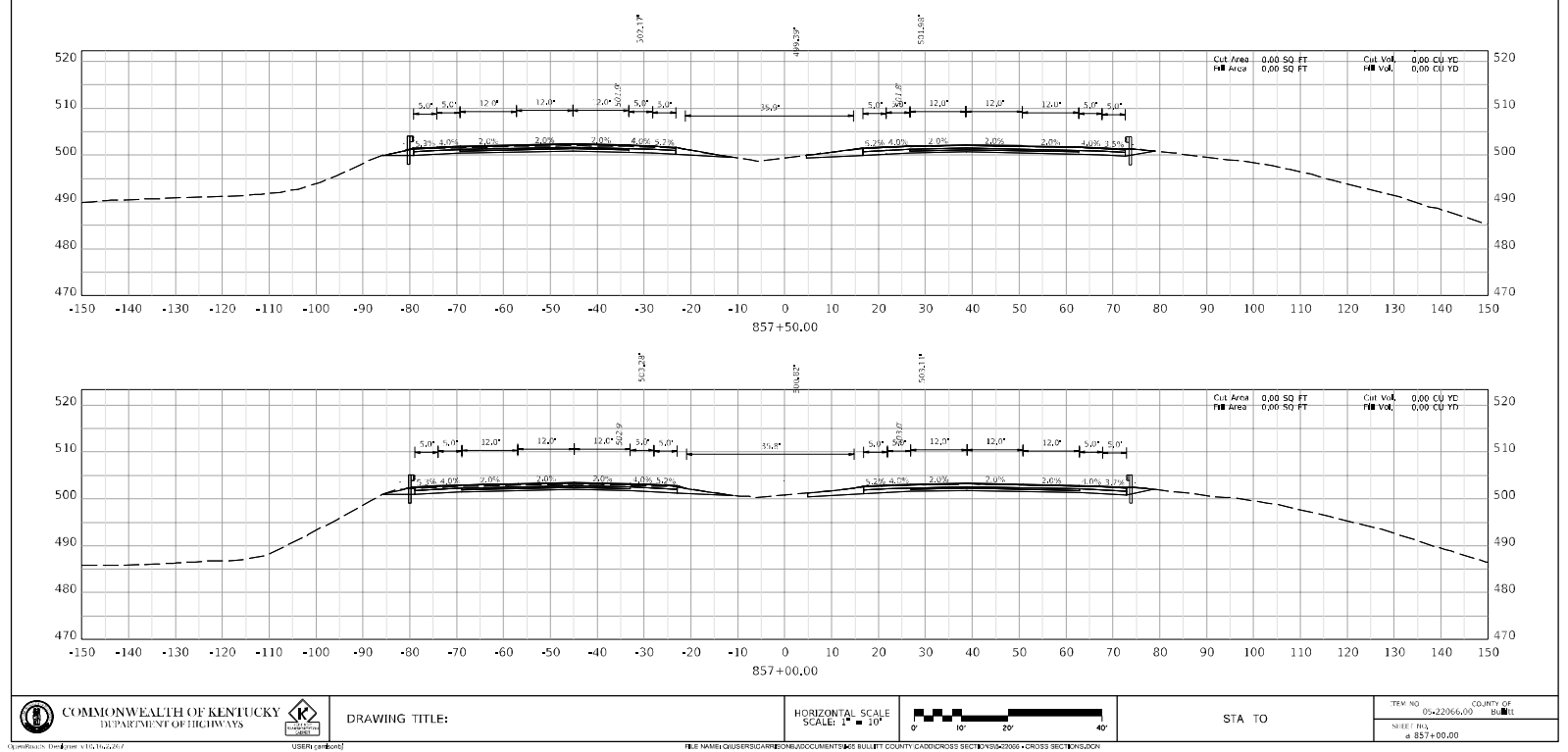


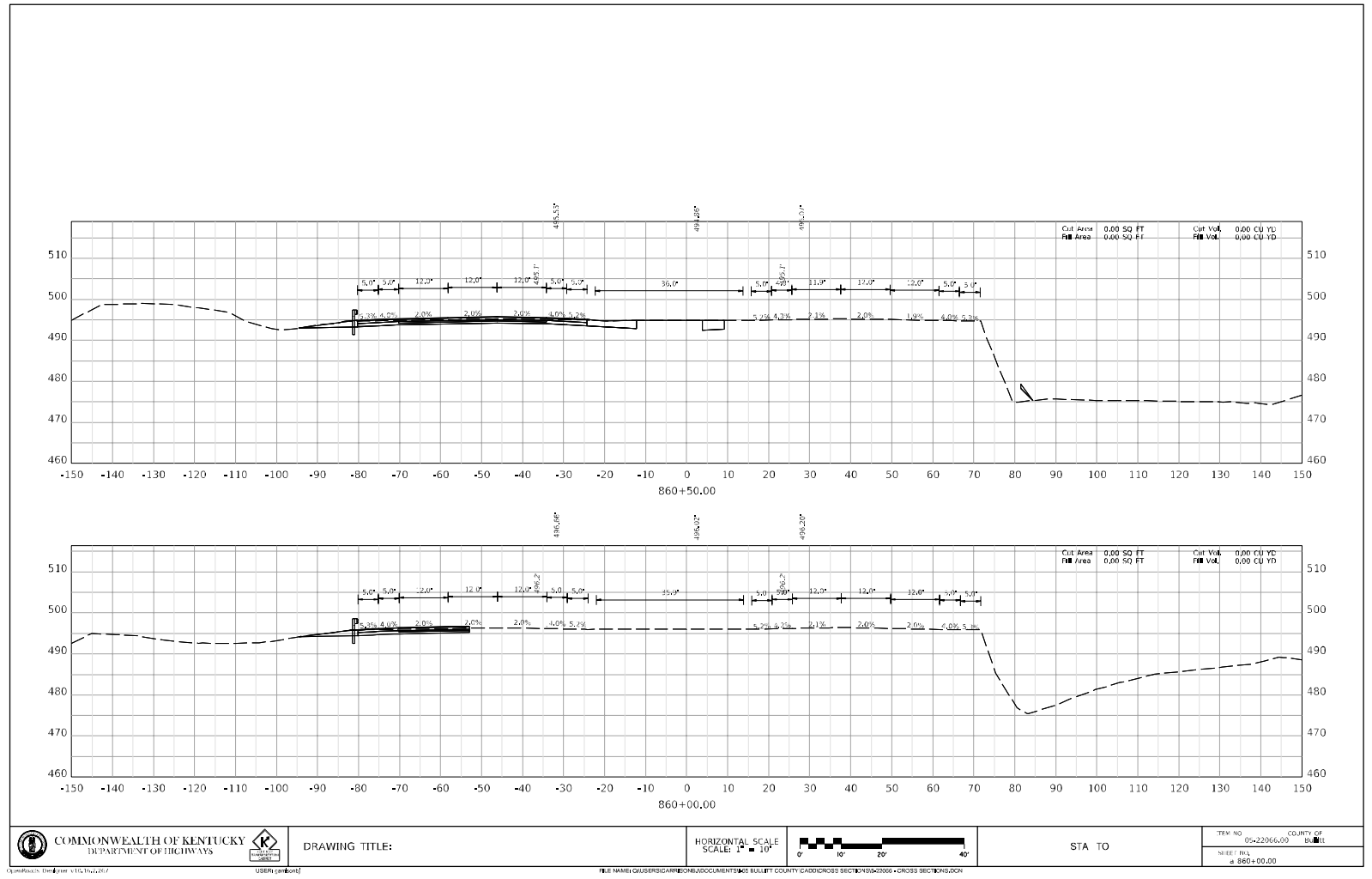
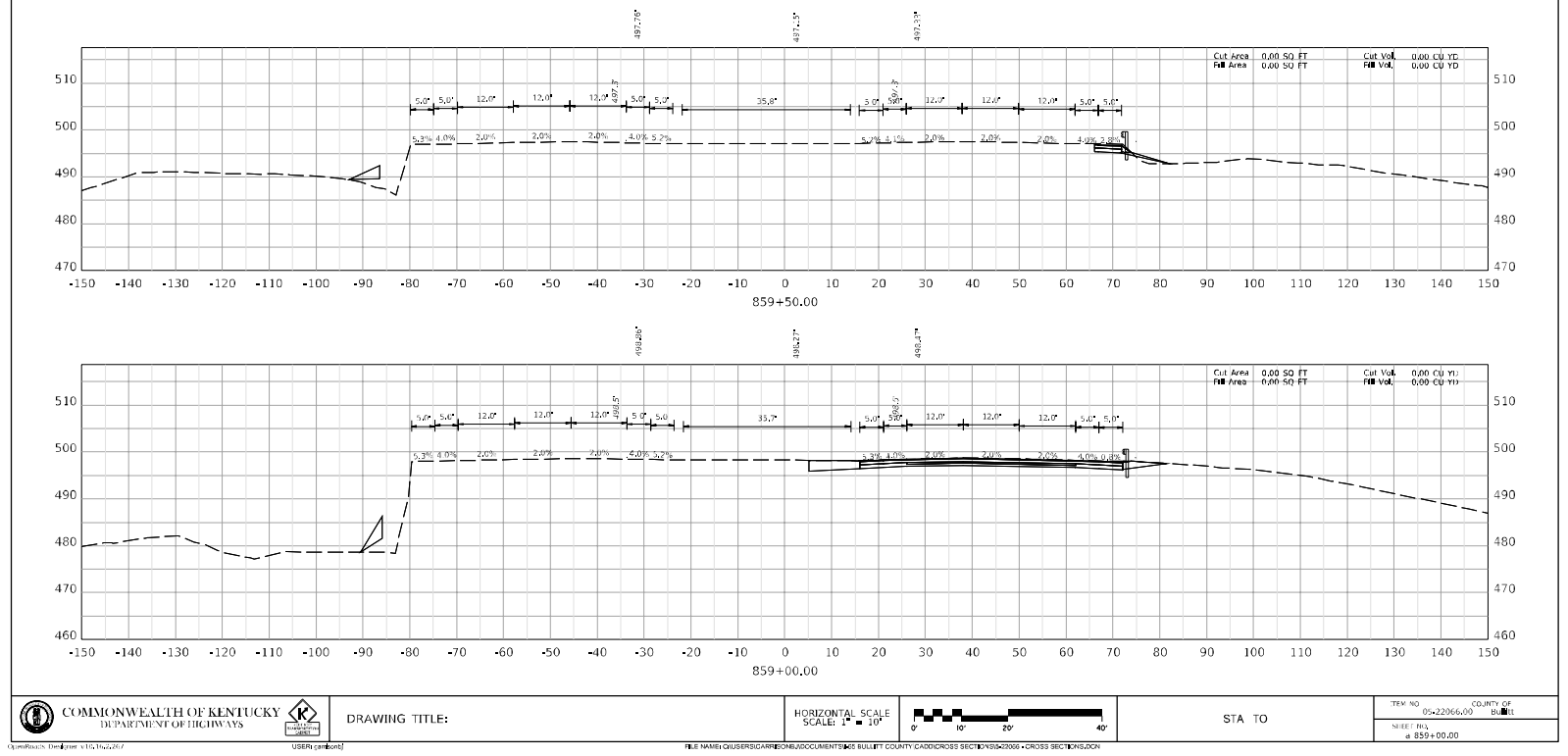


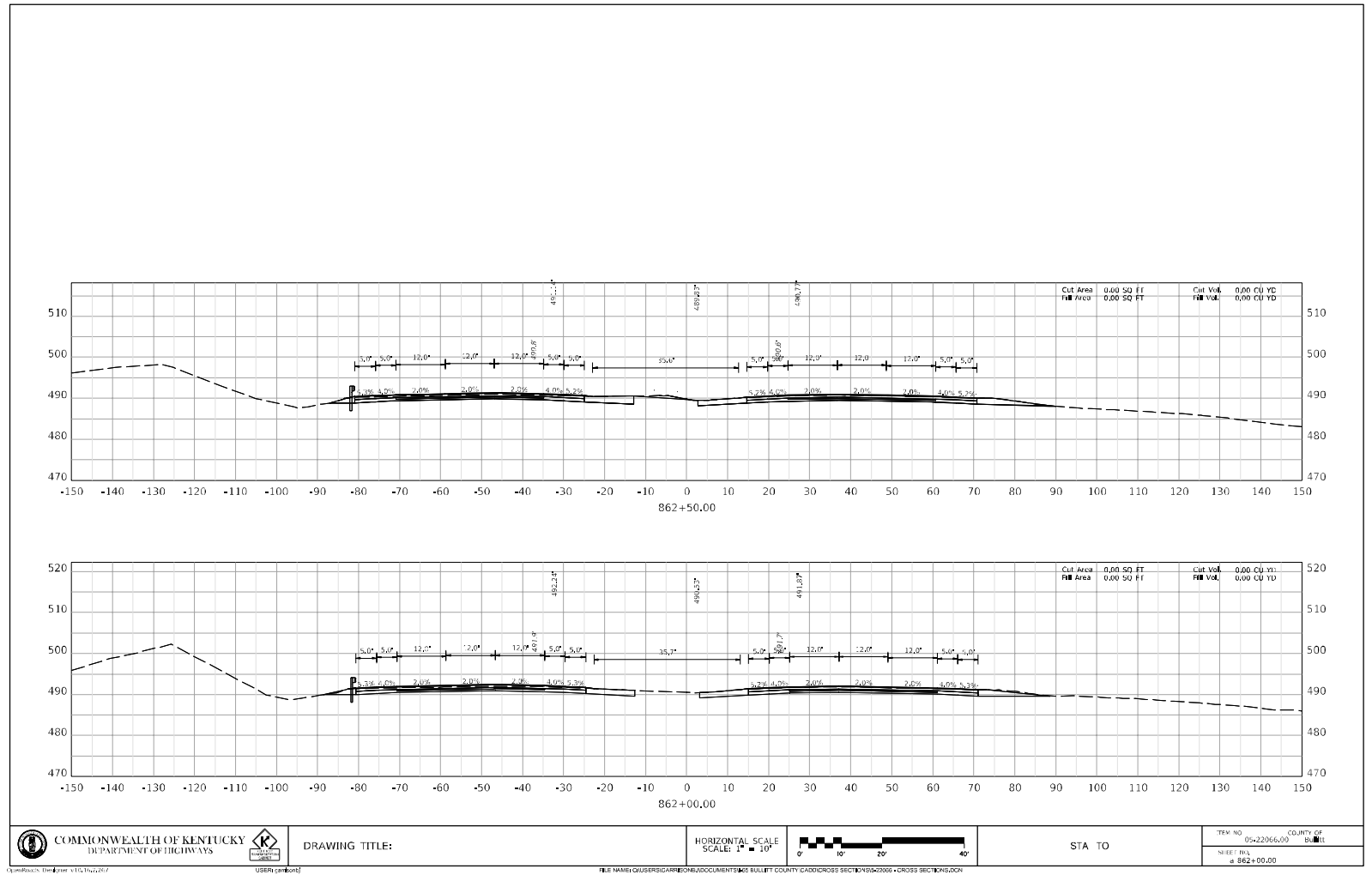
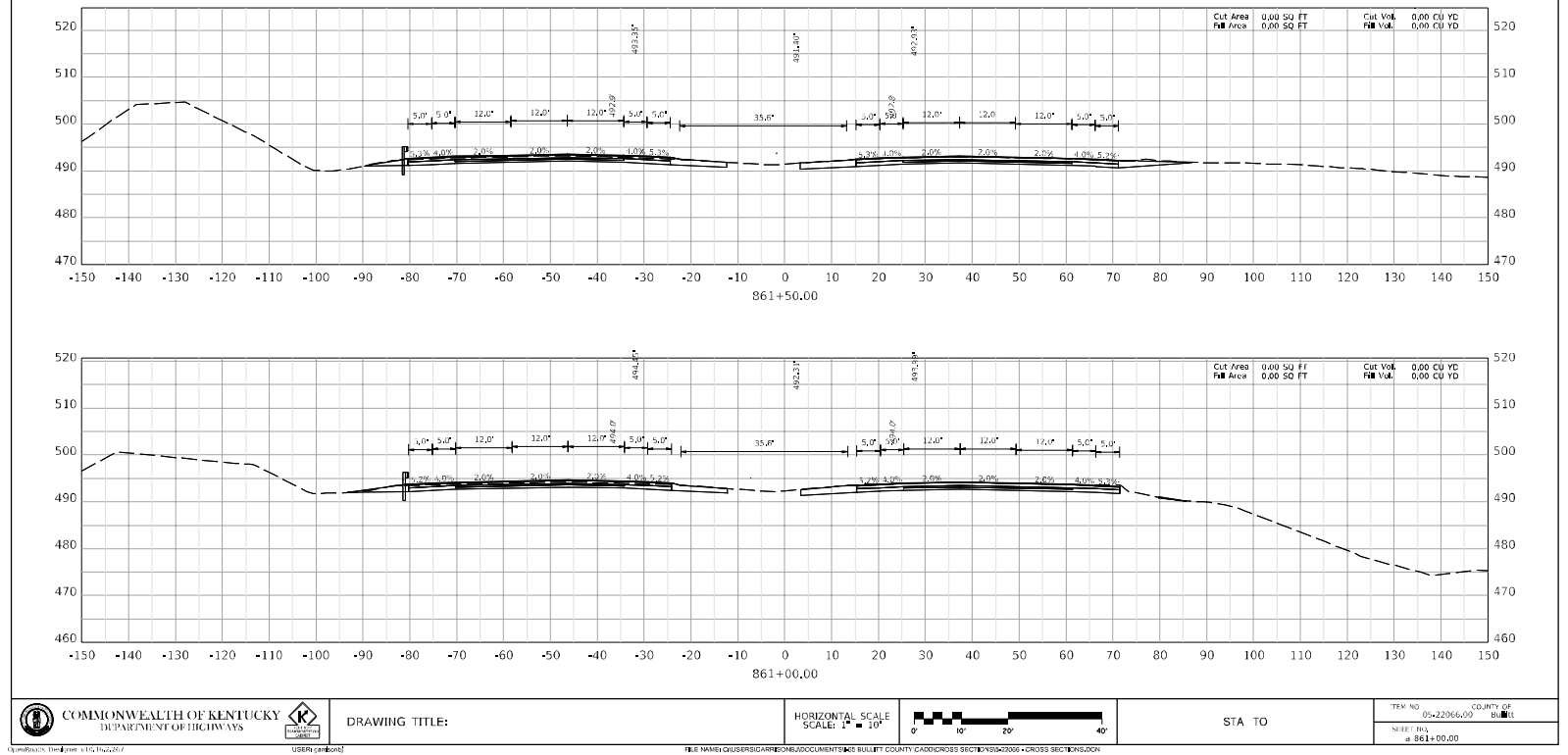


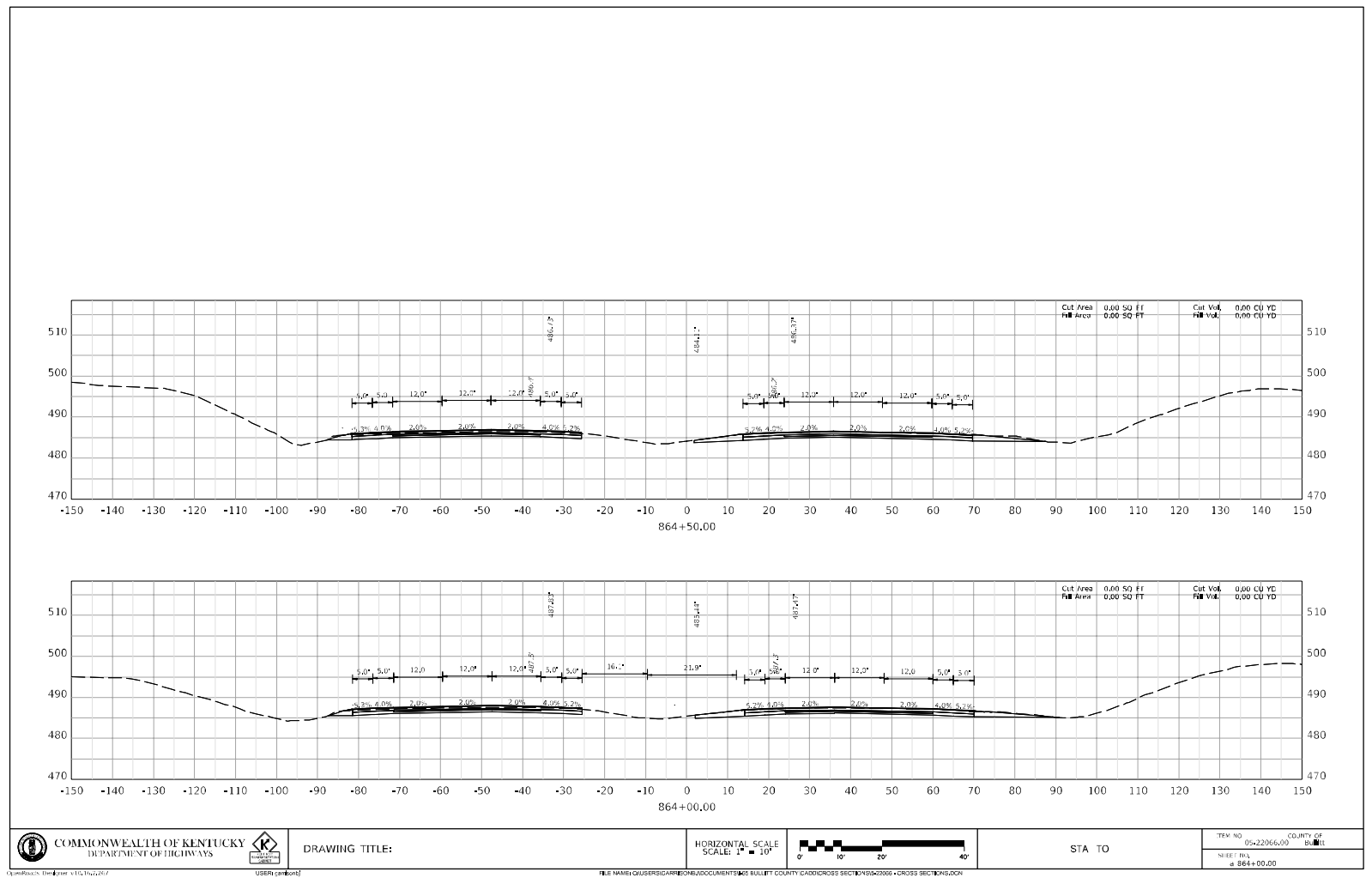
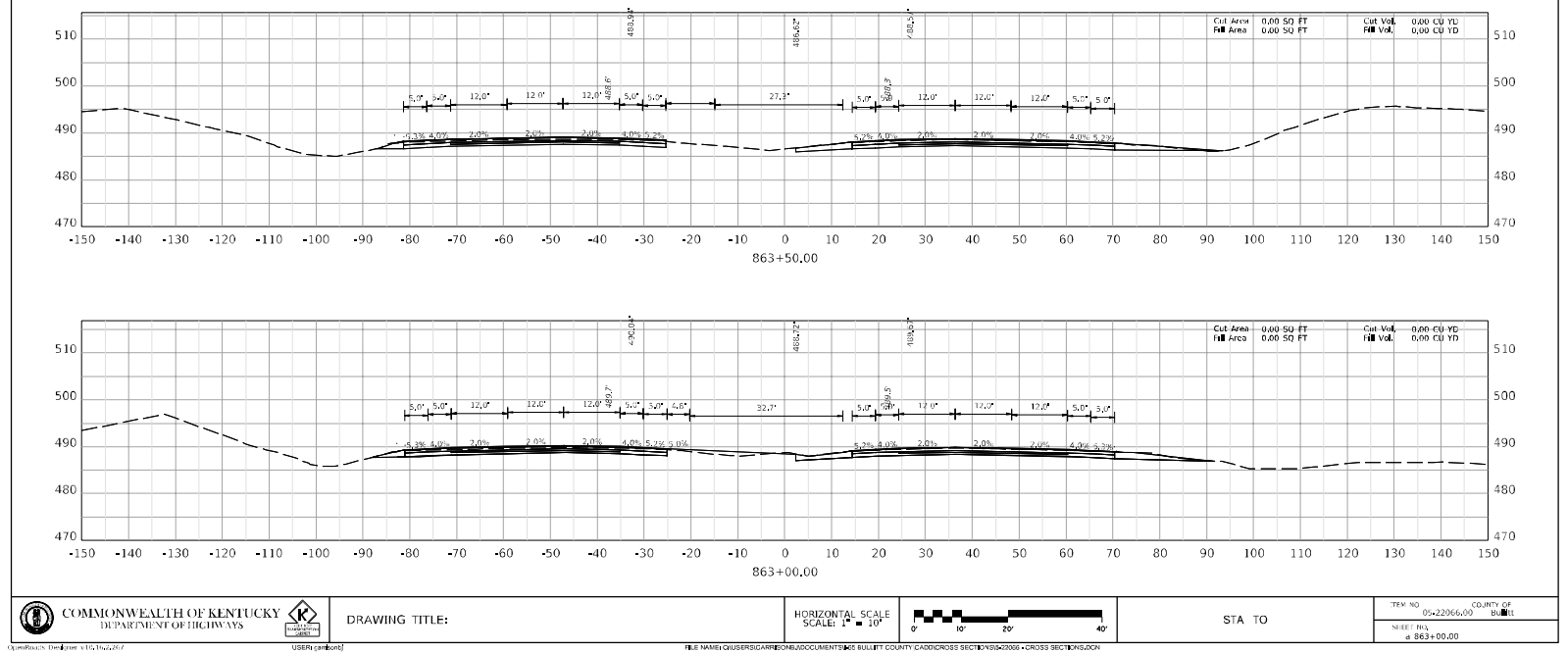


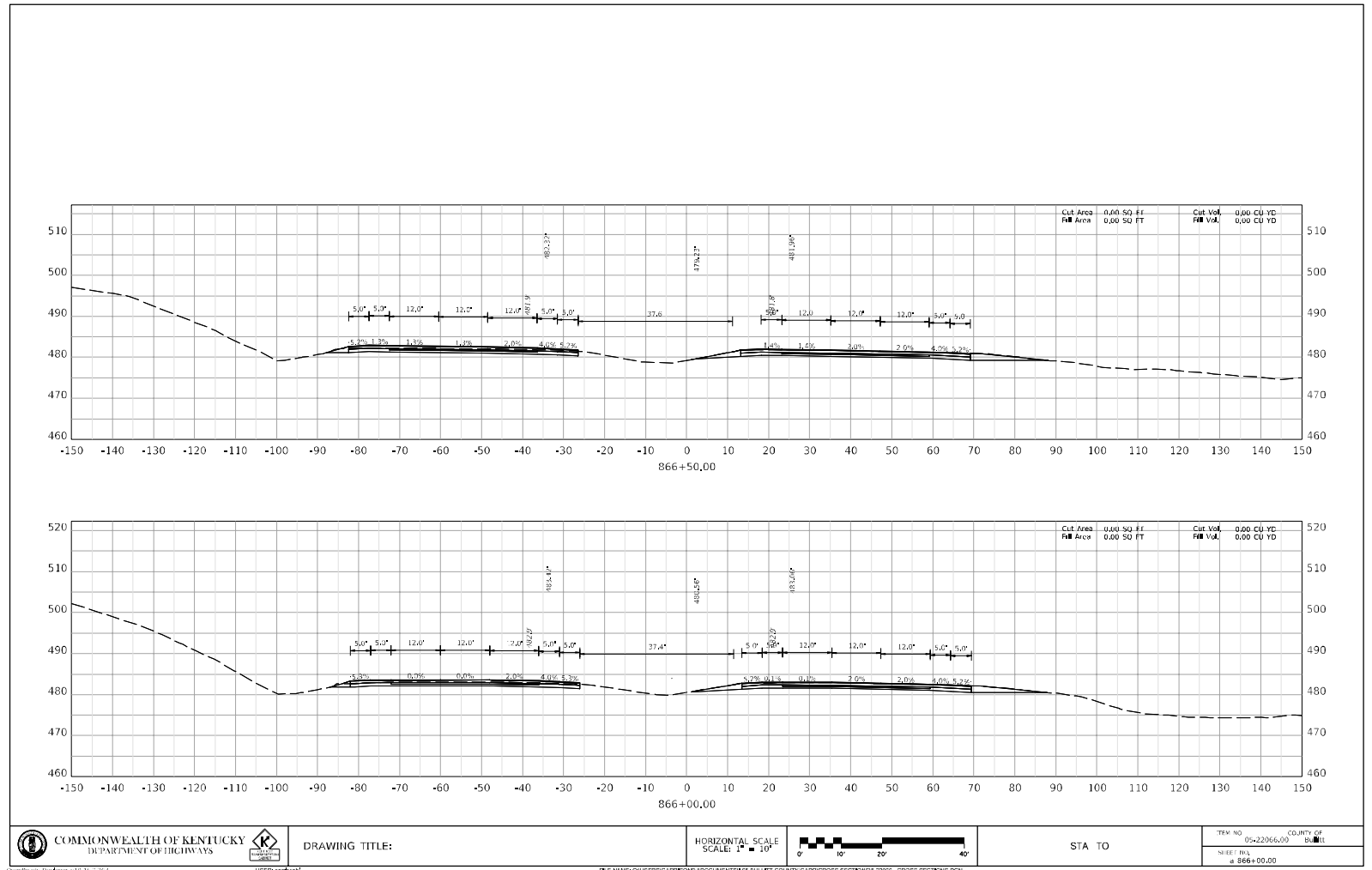
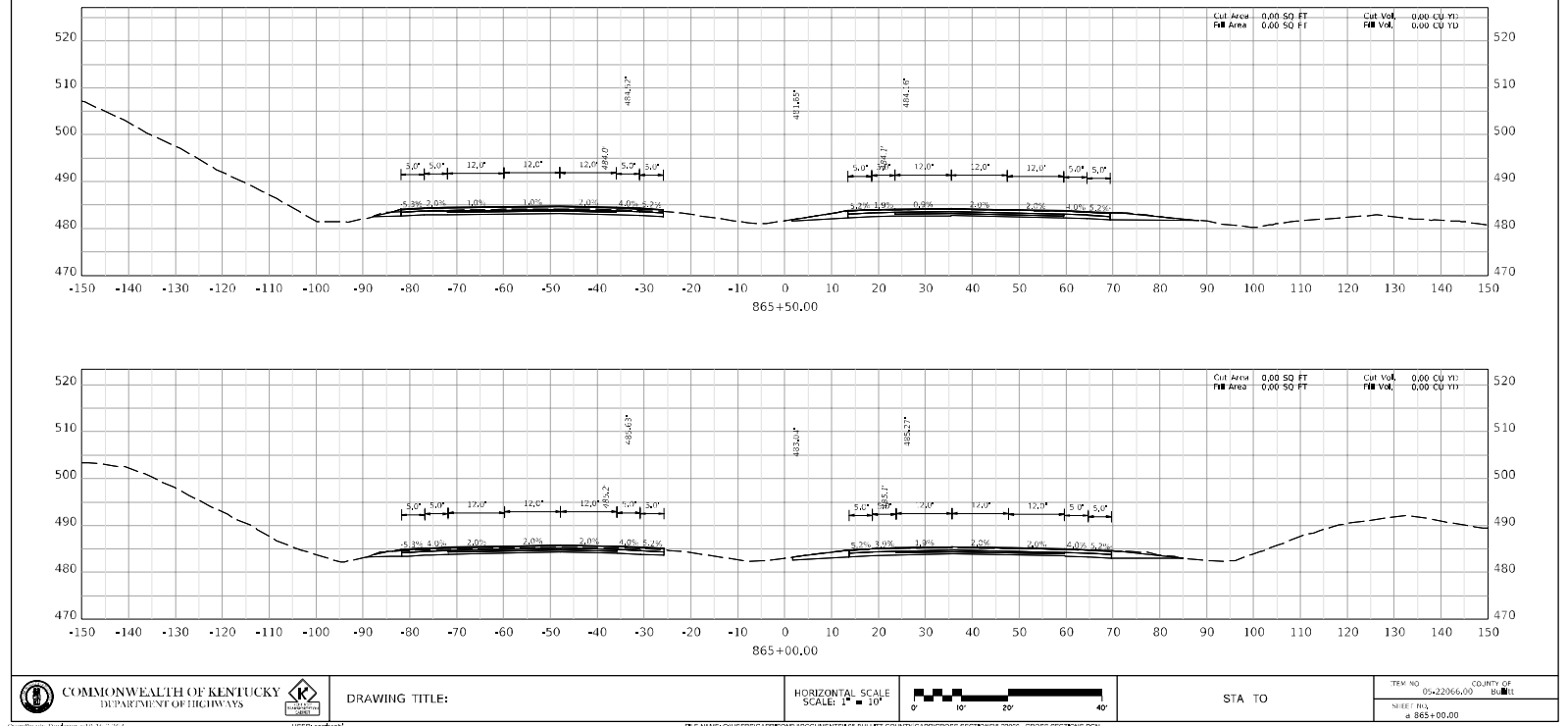


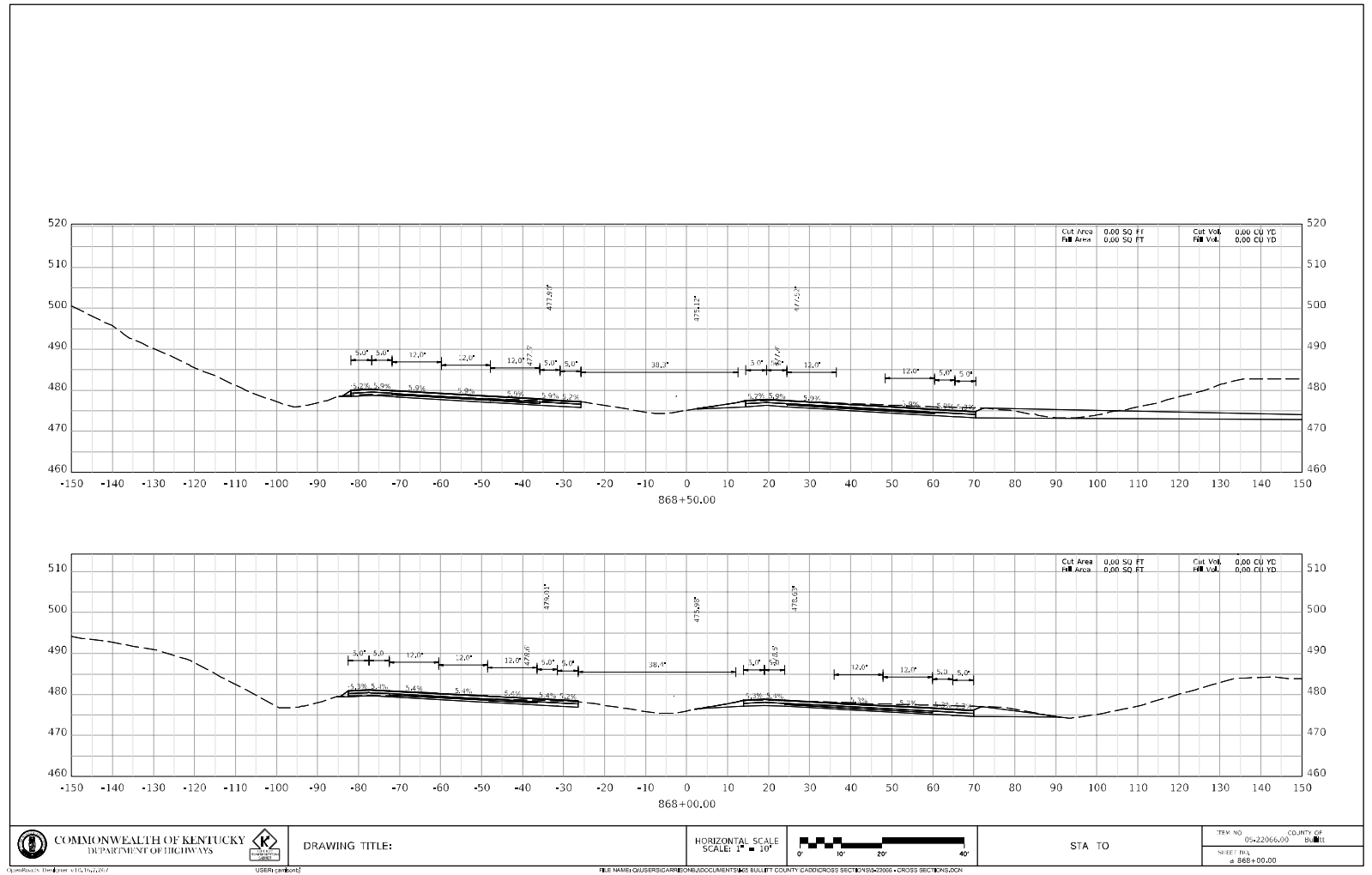
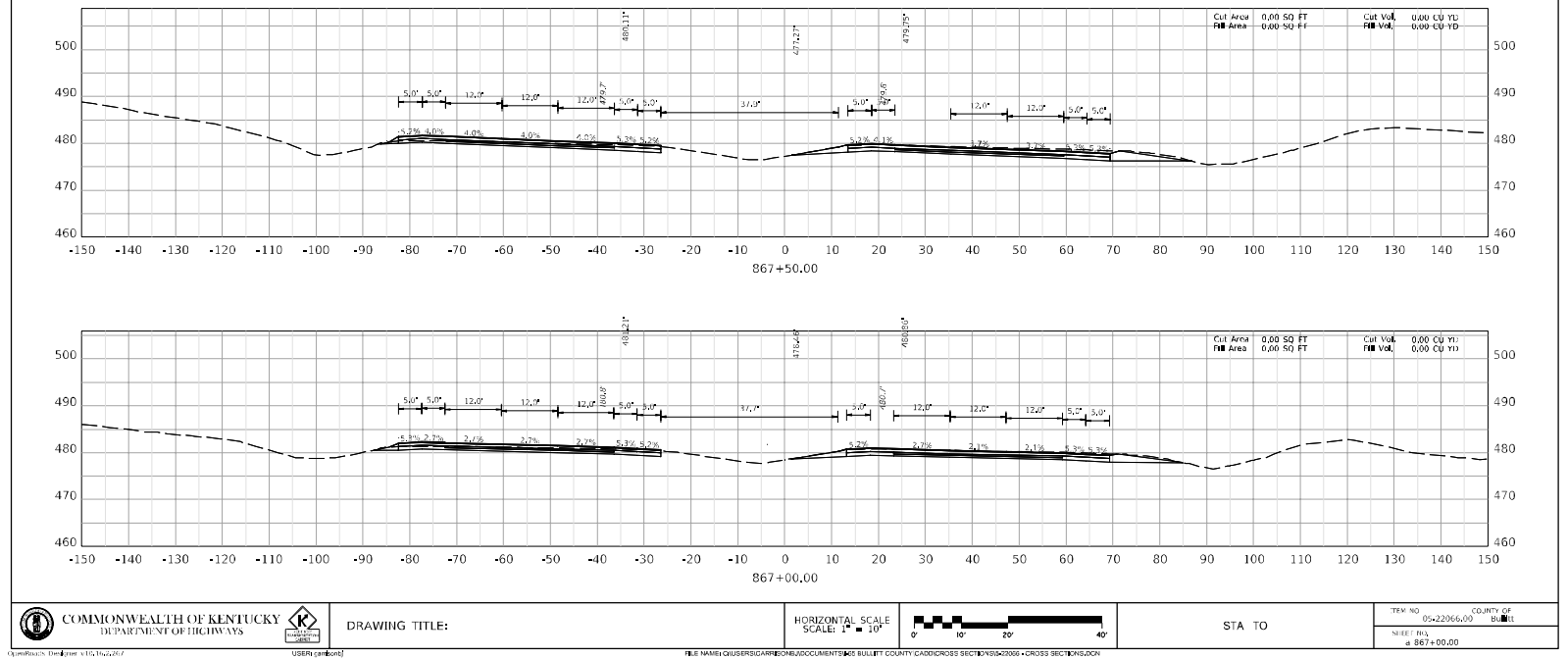




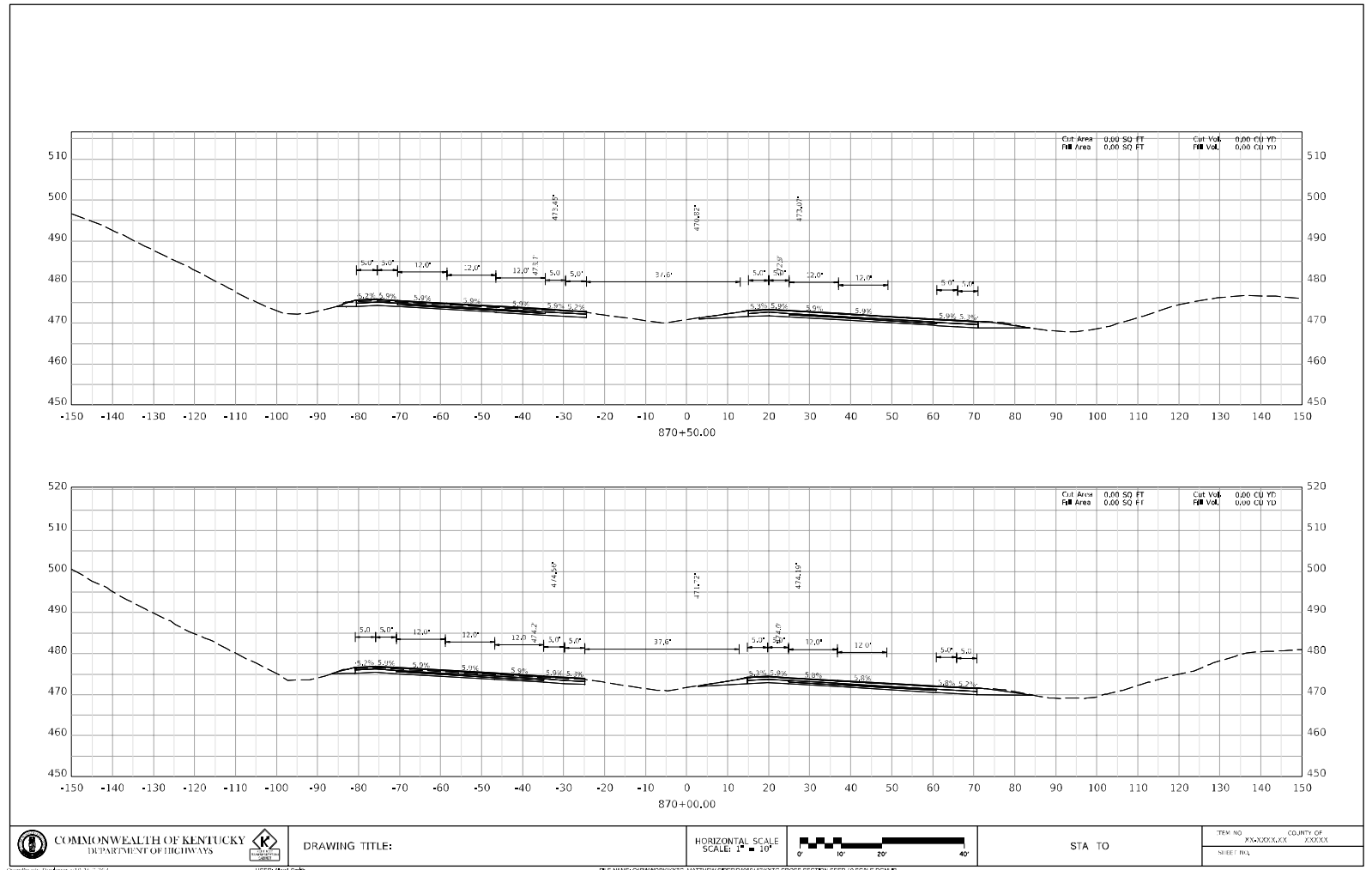
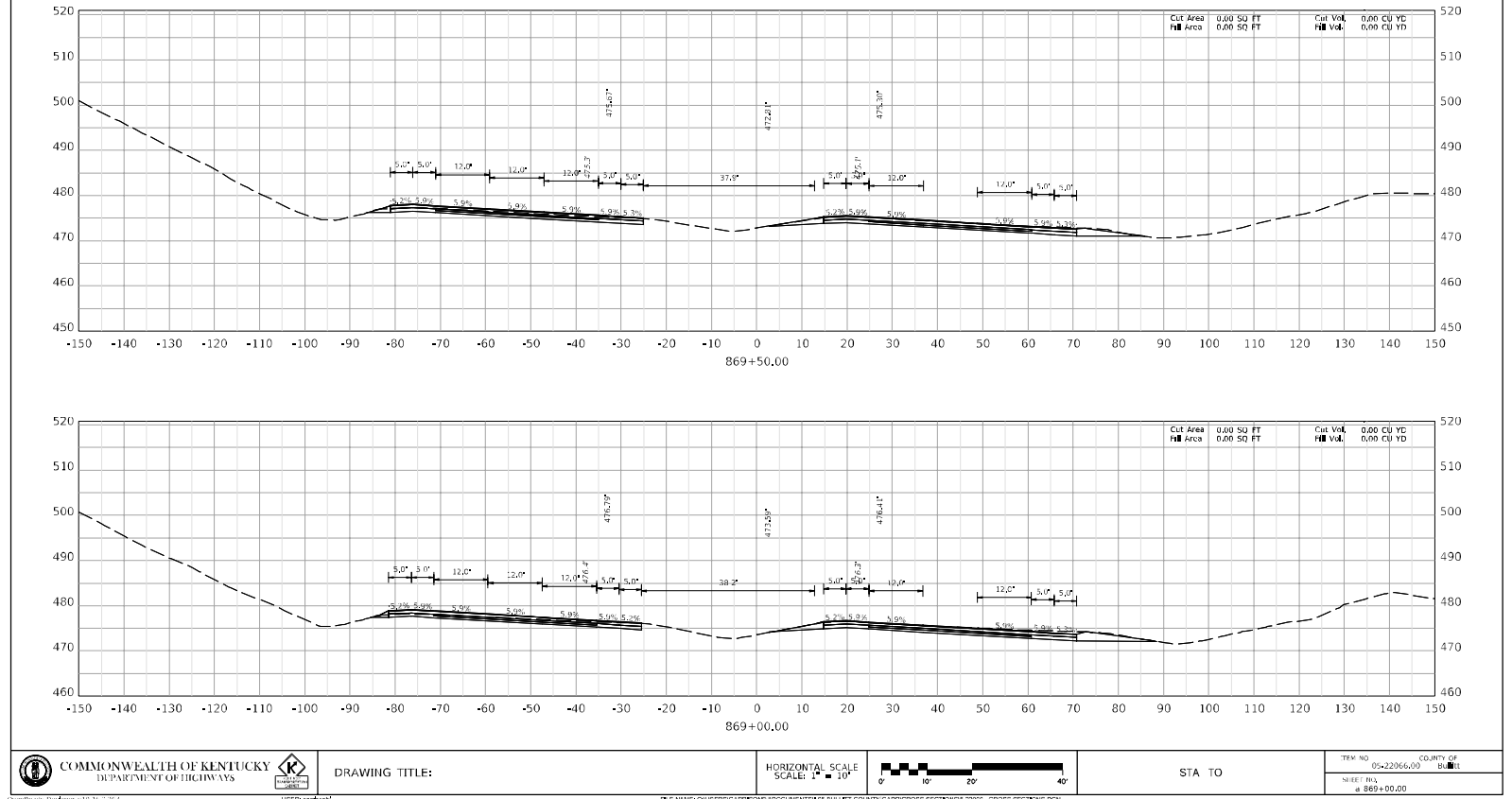


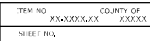




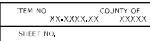




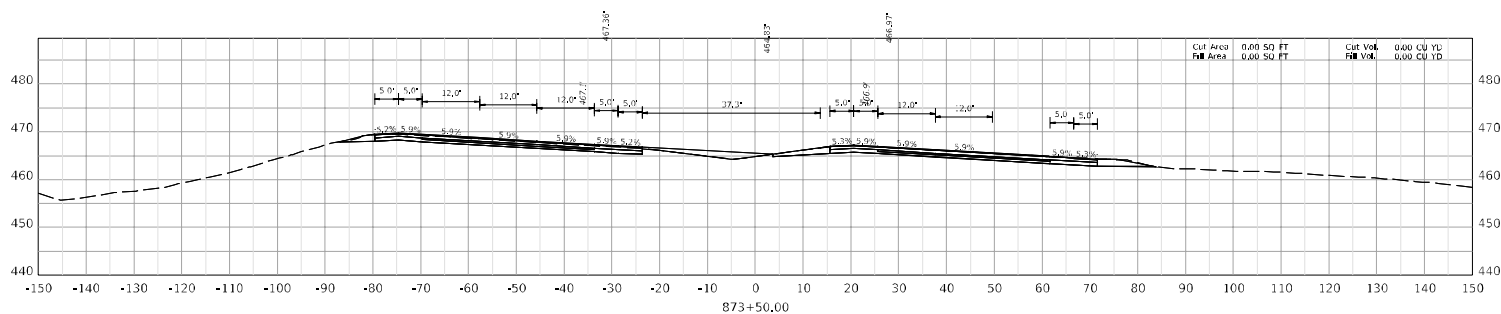
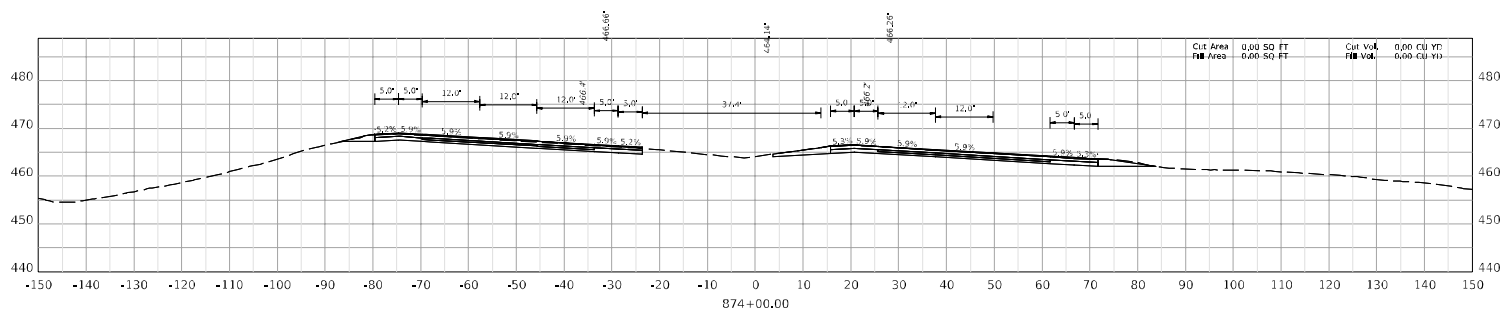




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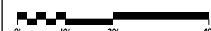


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



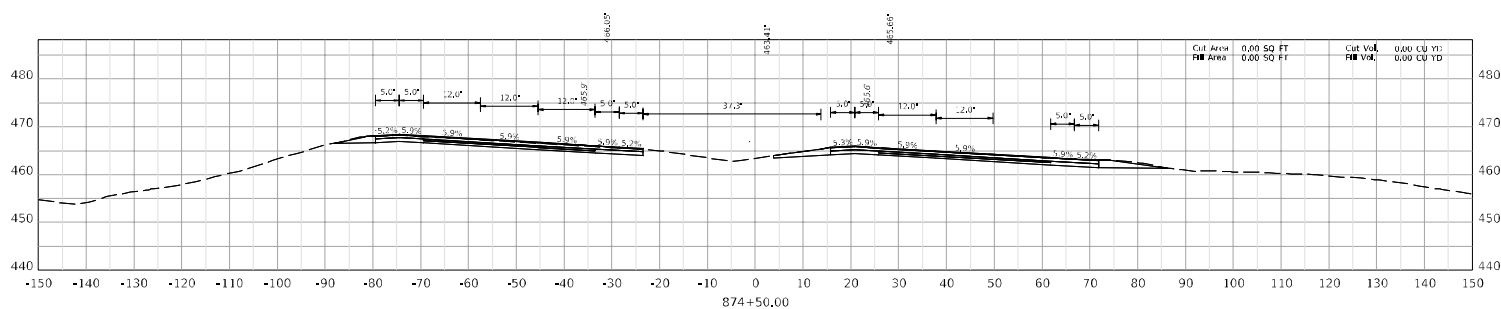
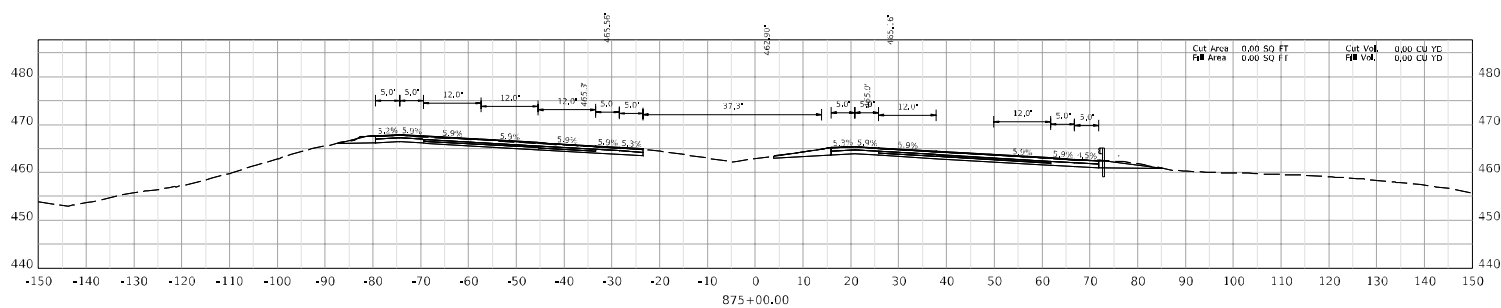
STA TO

TRM NO. COUNTY OF  
SHEET RA XXXXX

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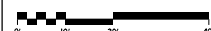


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



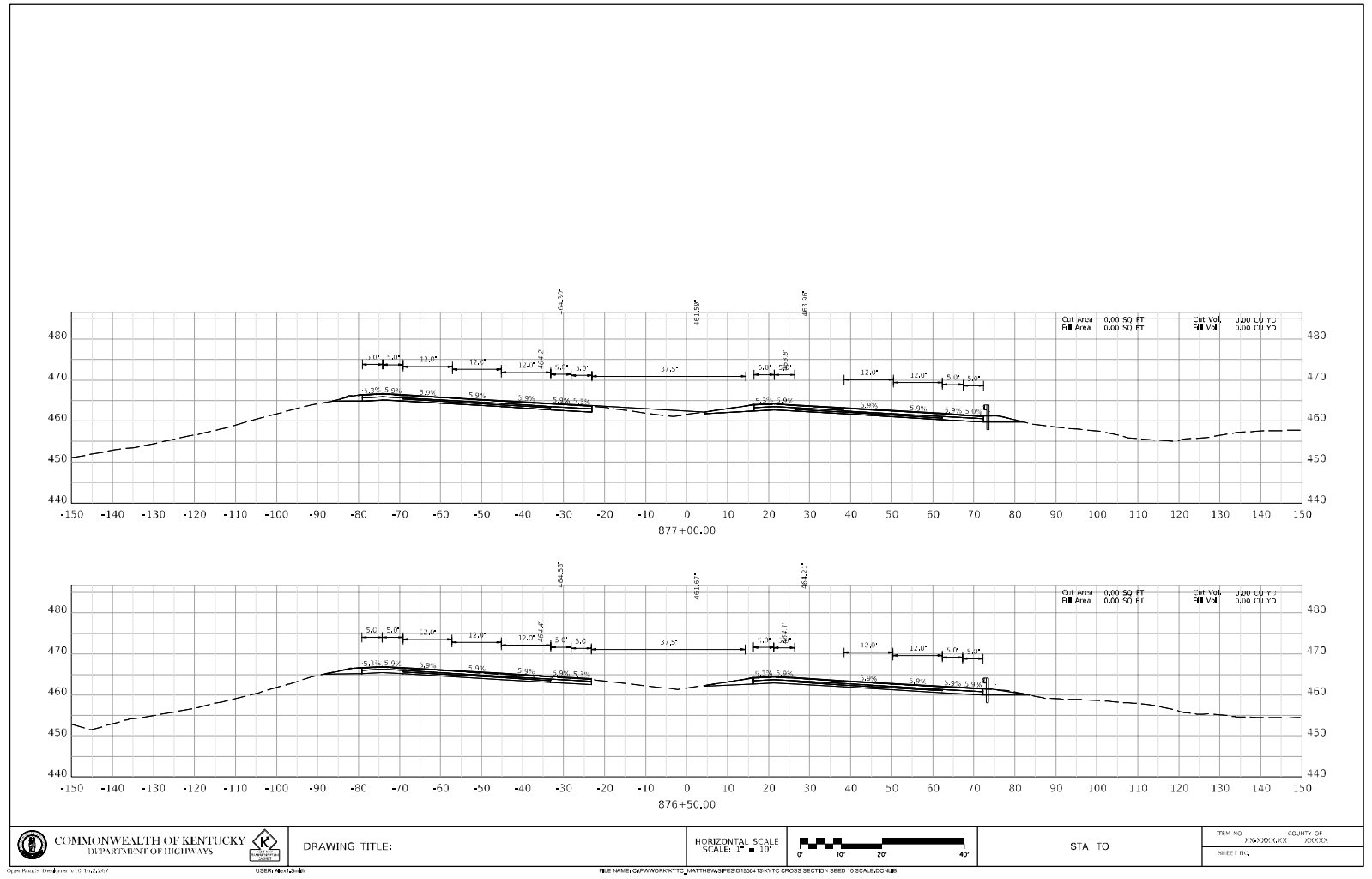
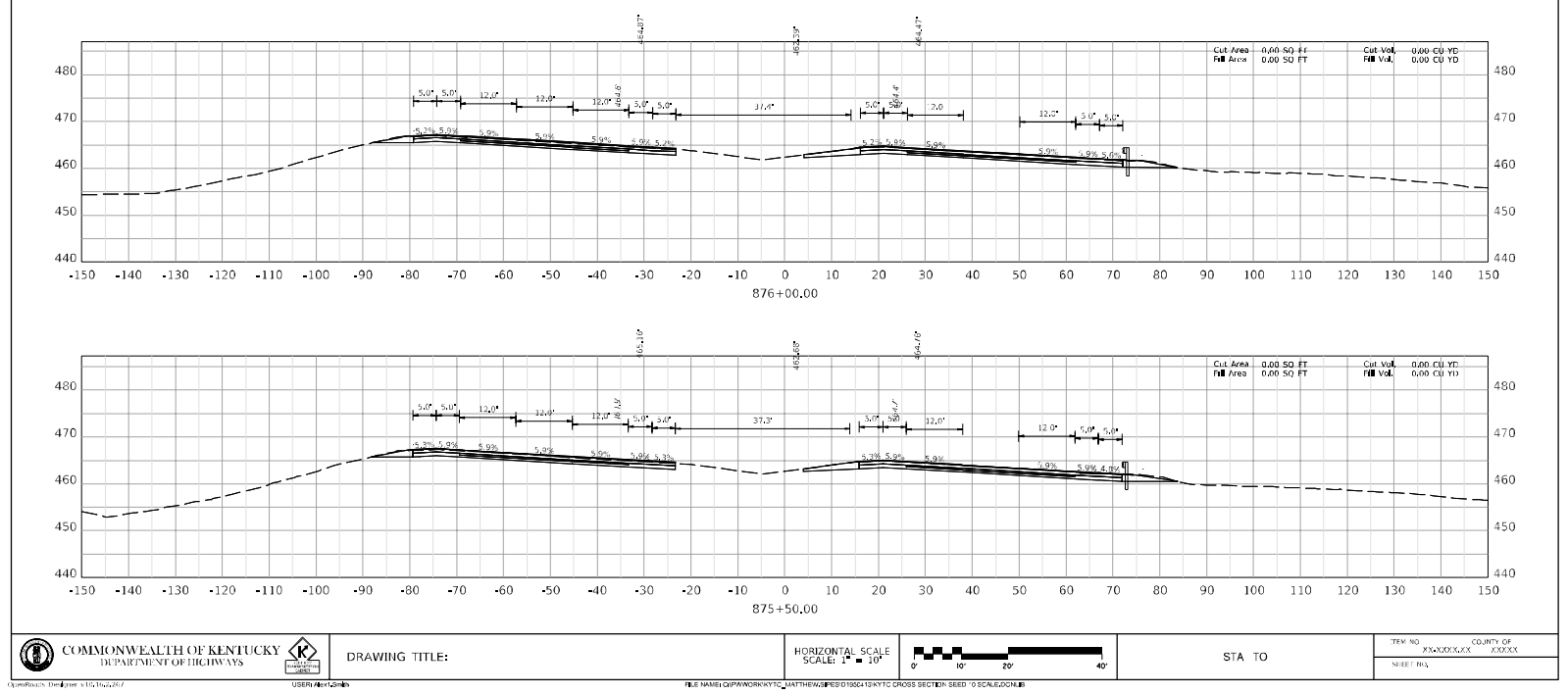
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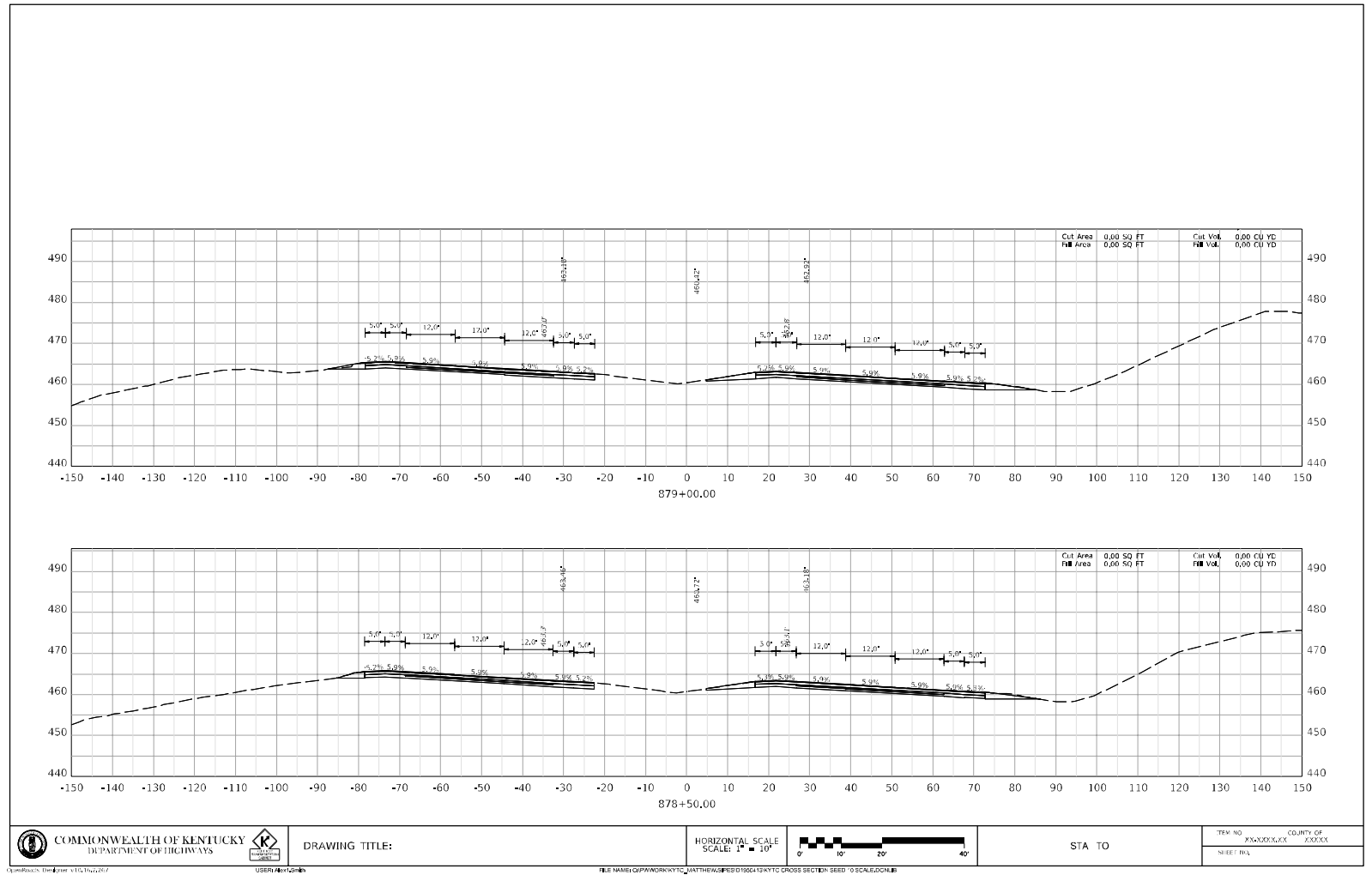
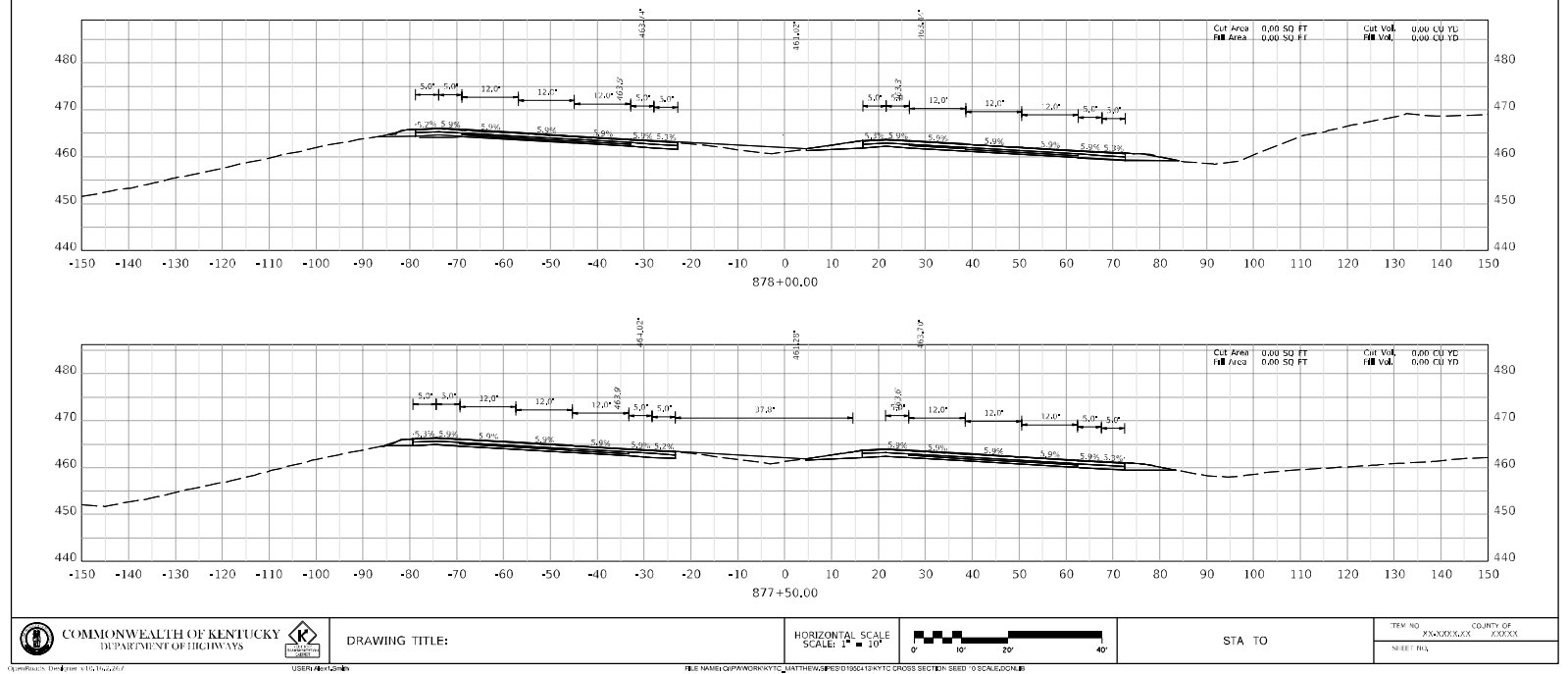
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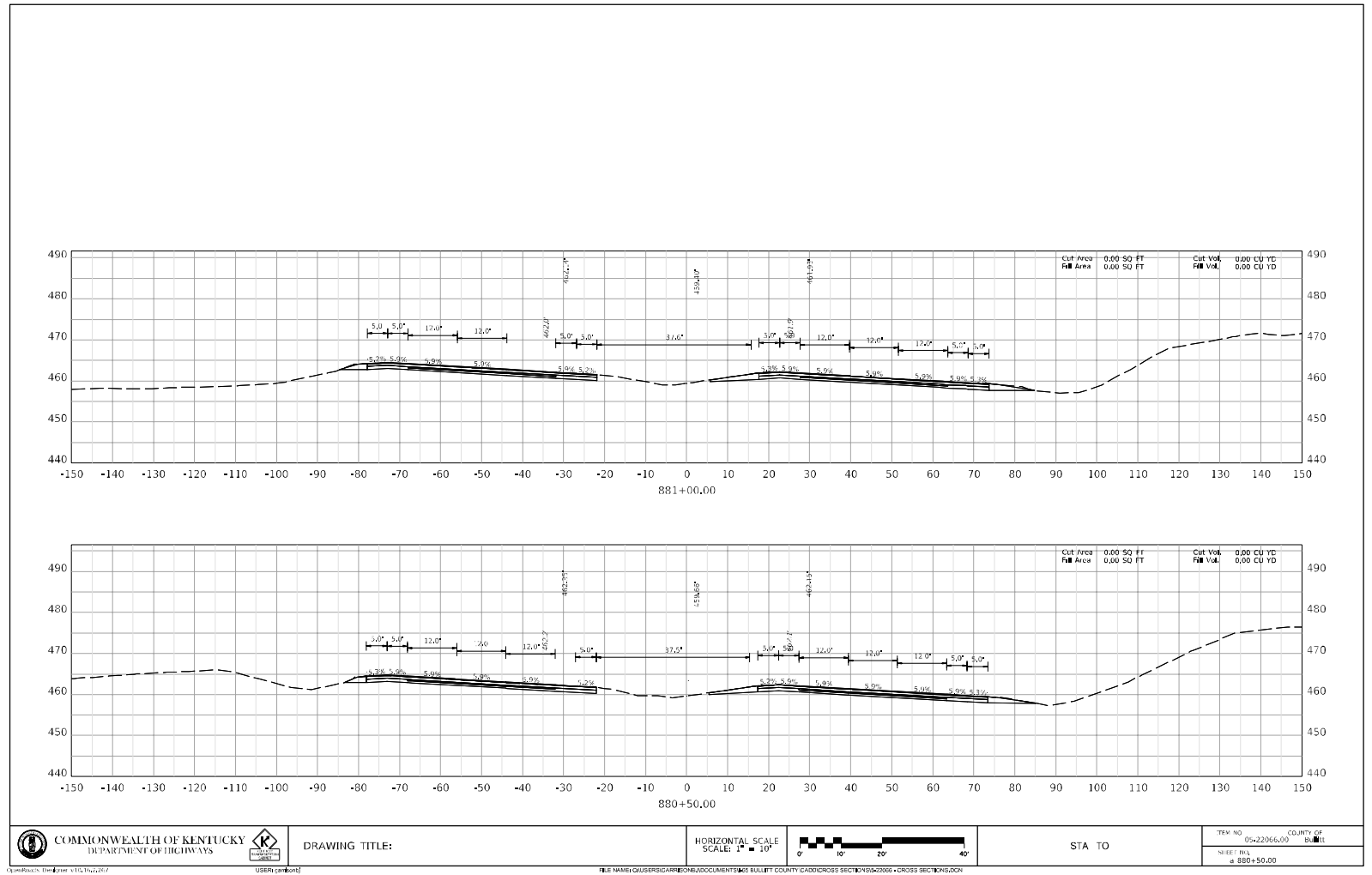
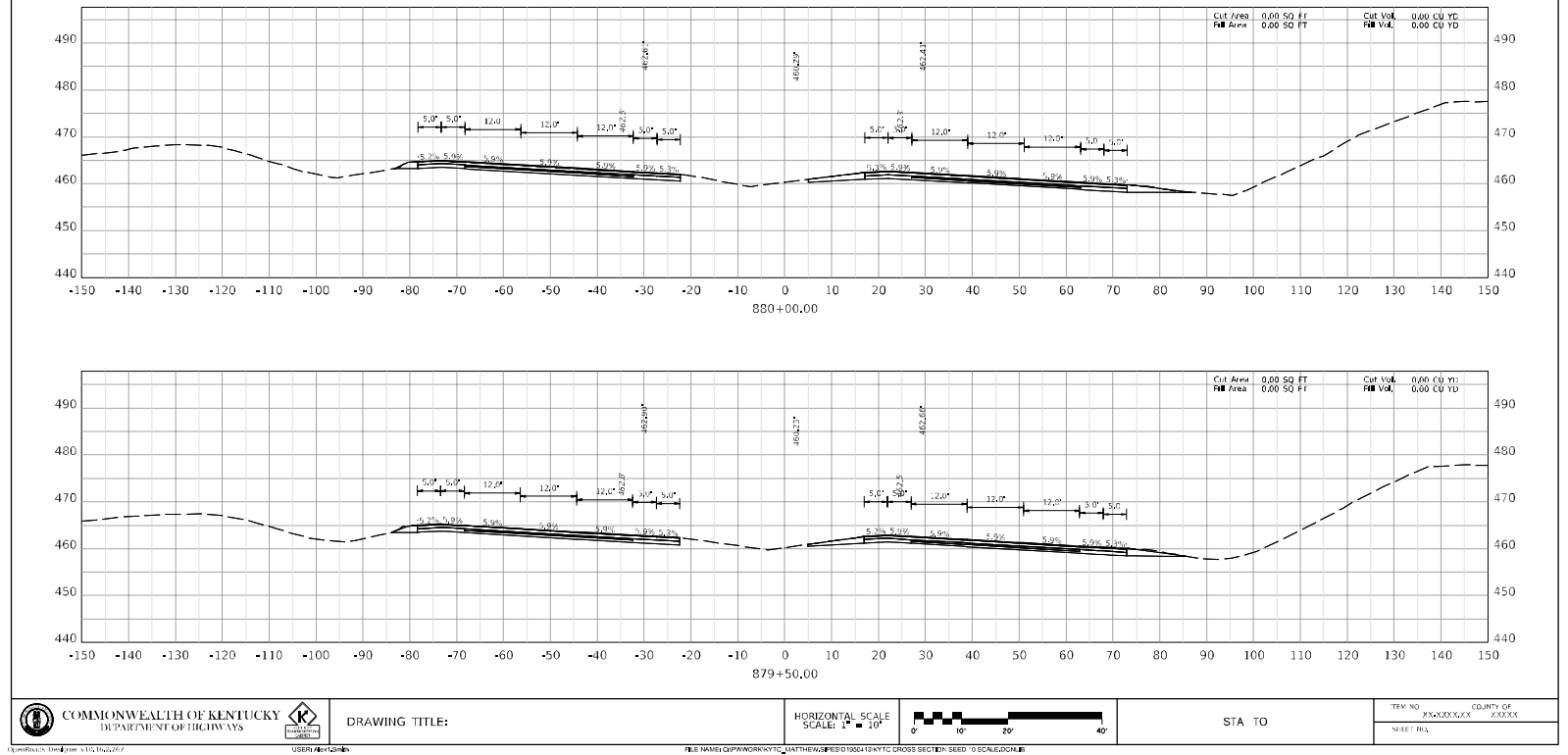
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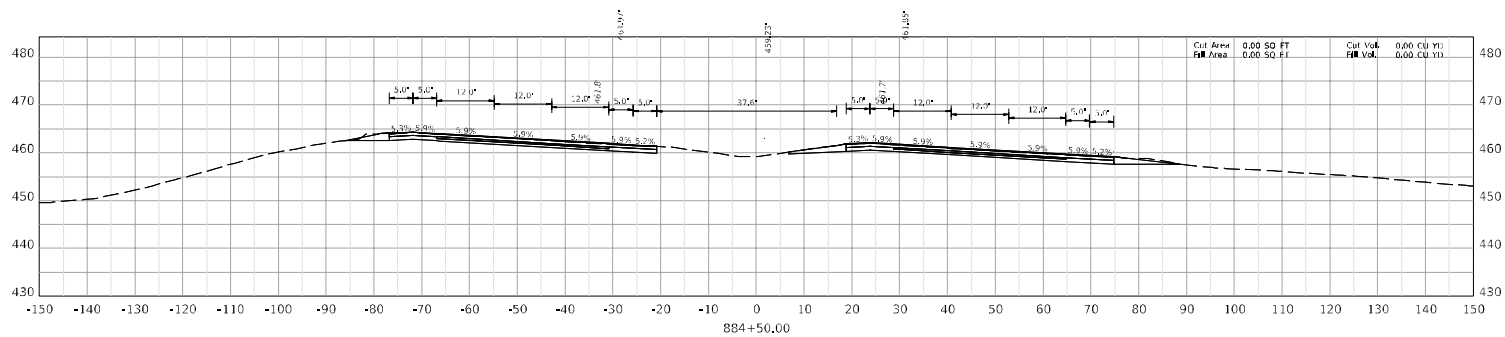
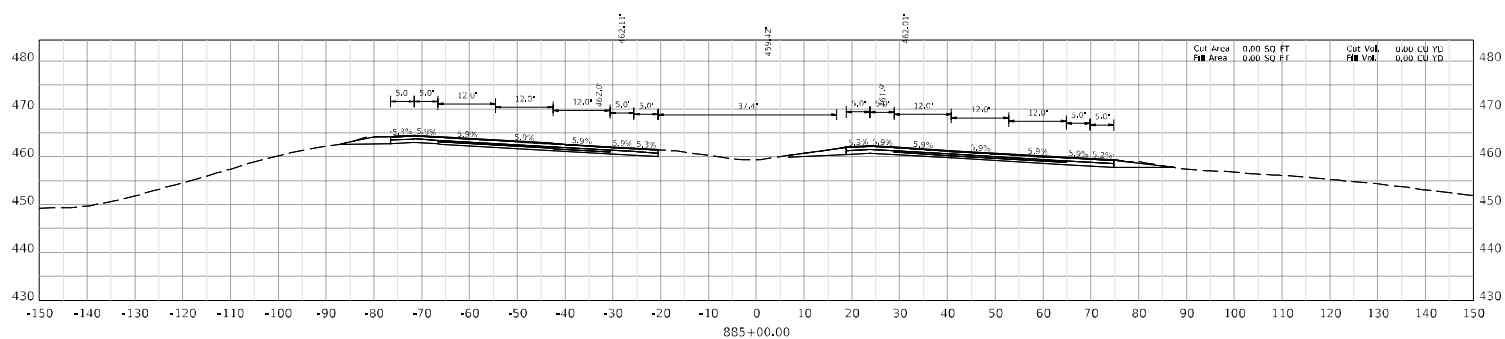
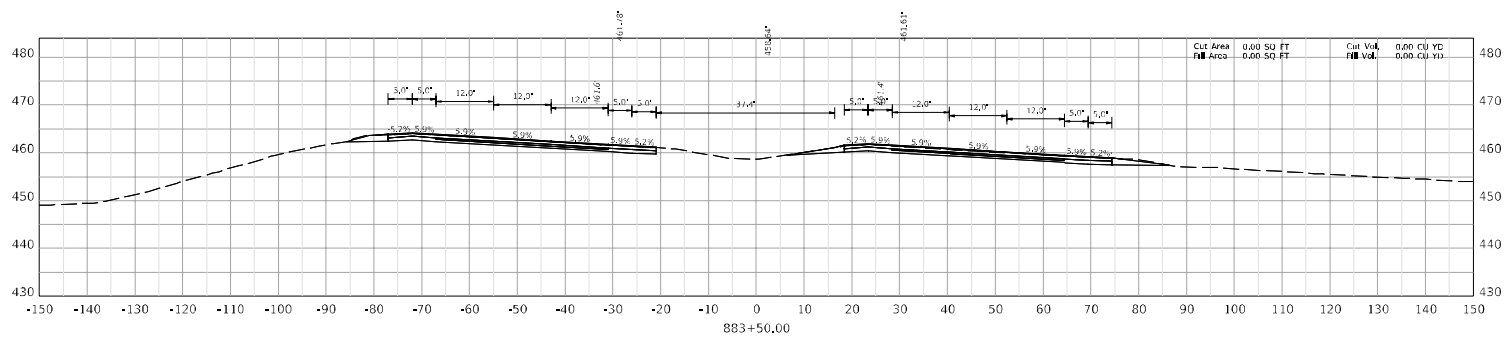
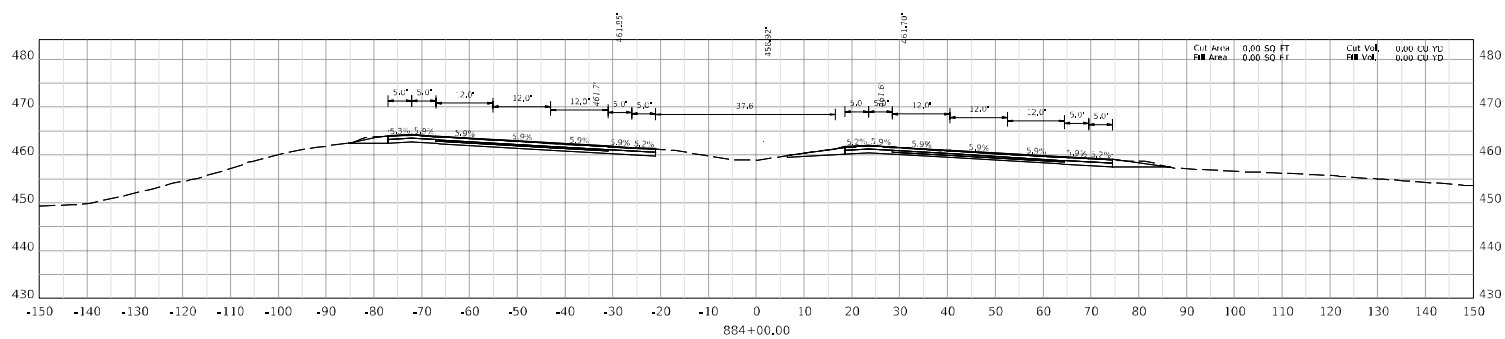


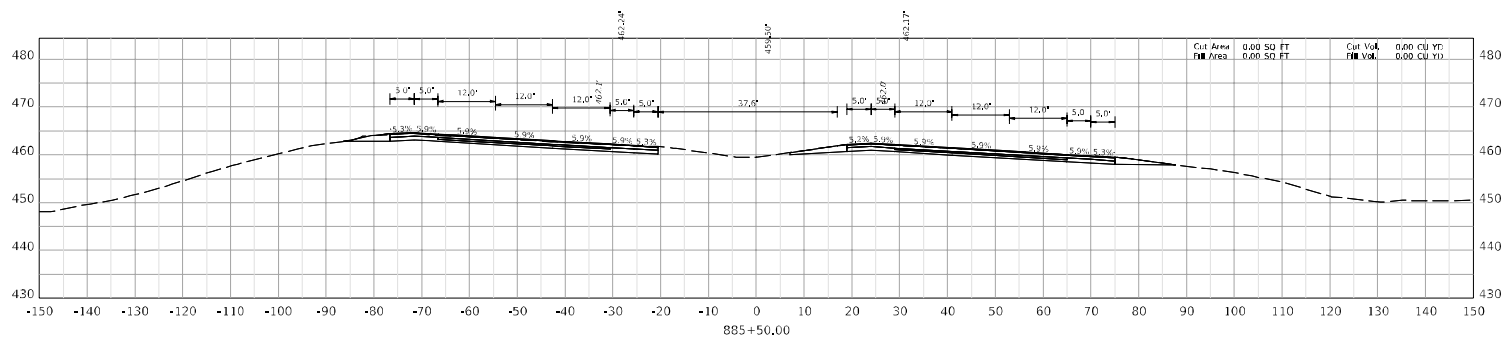
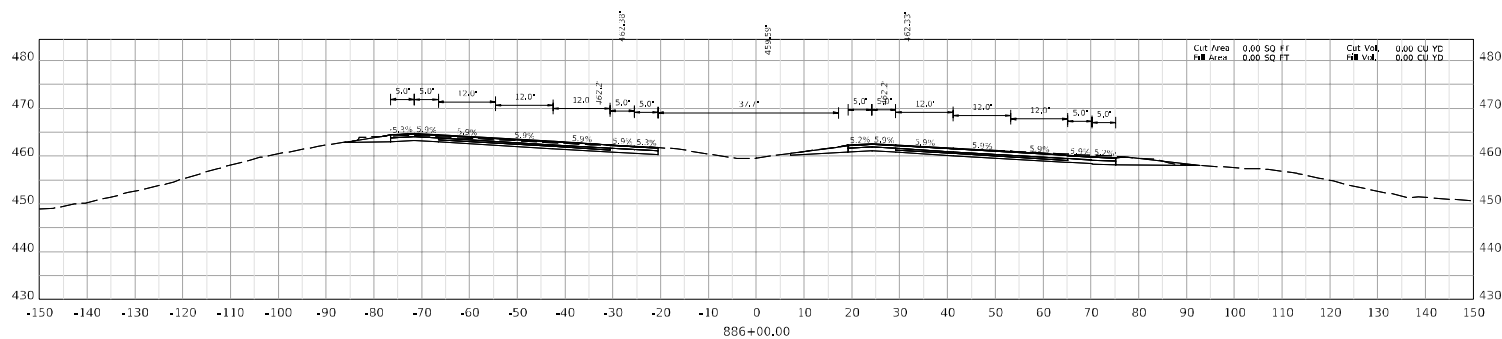




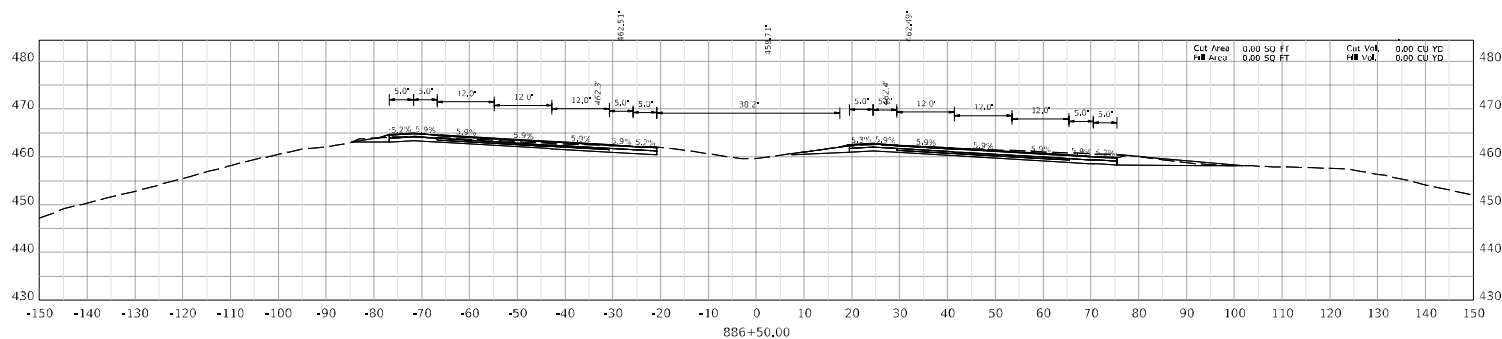
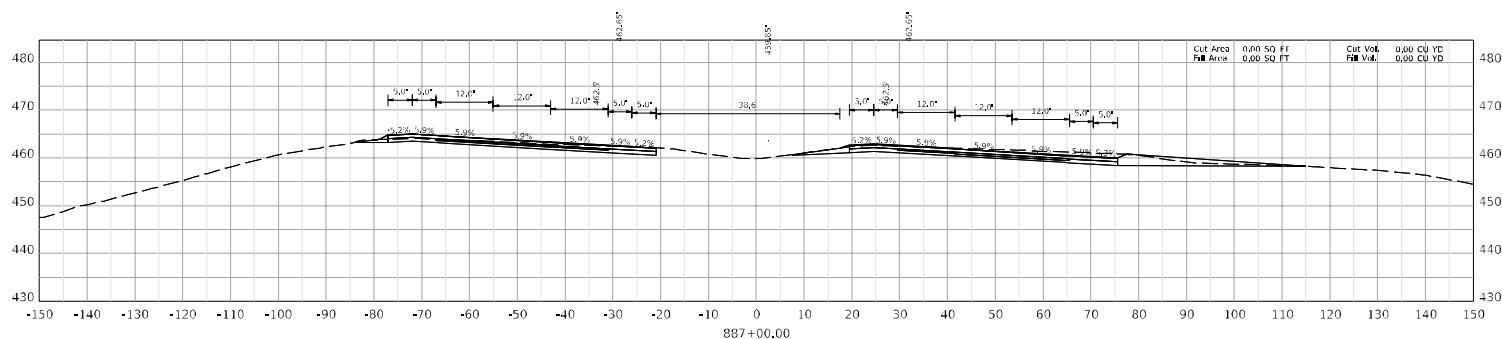




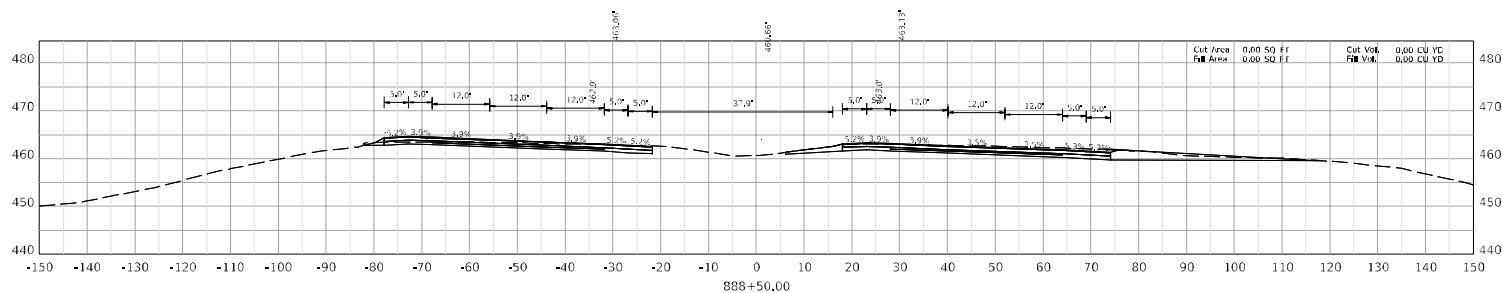
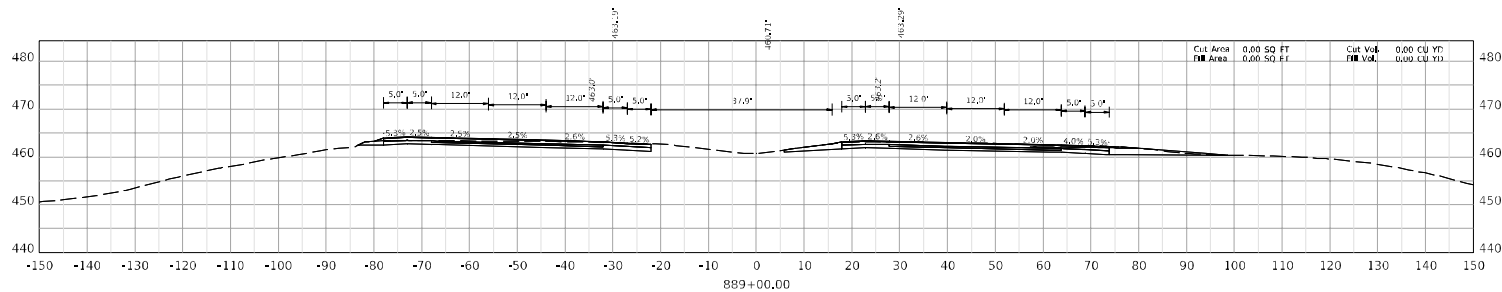
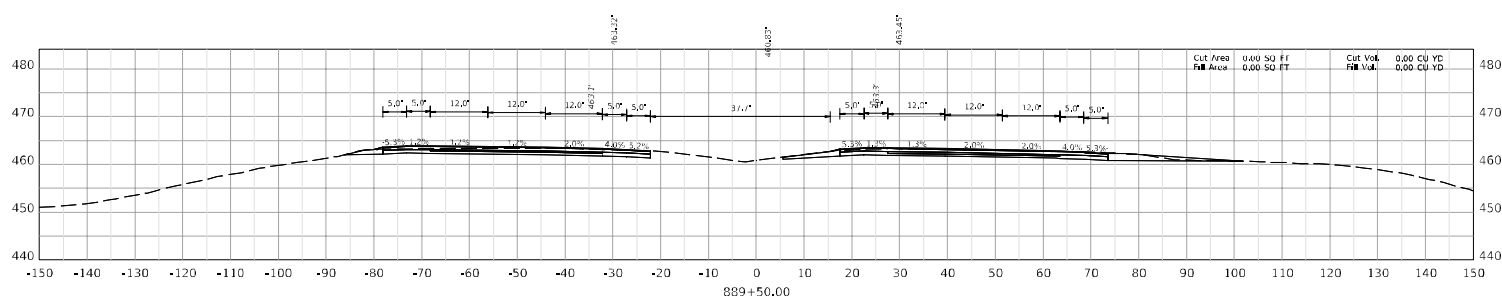
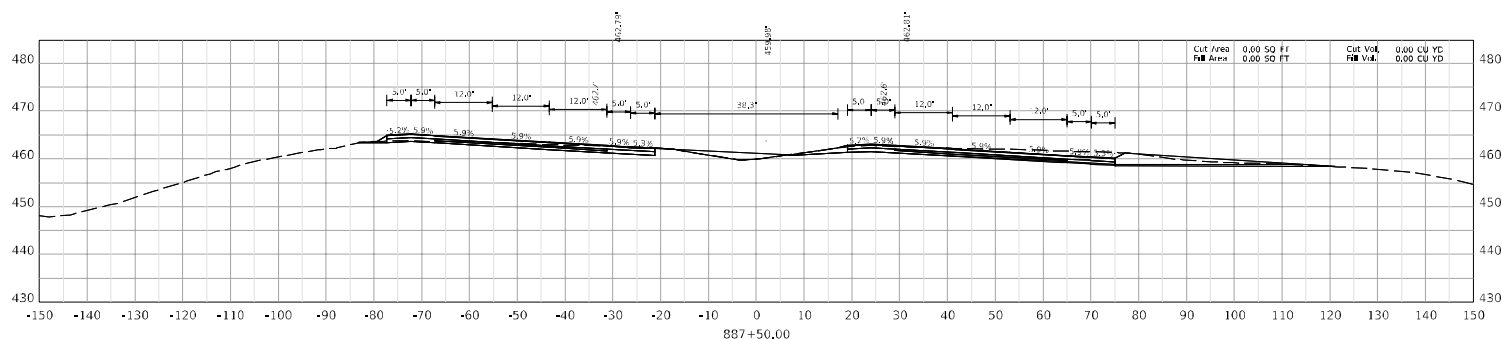
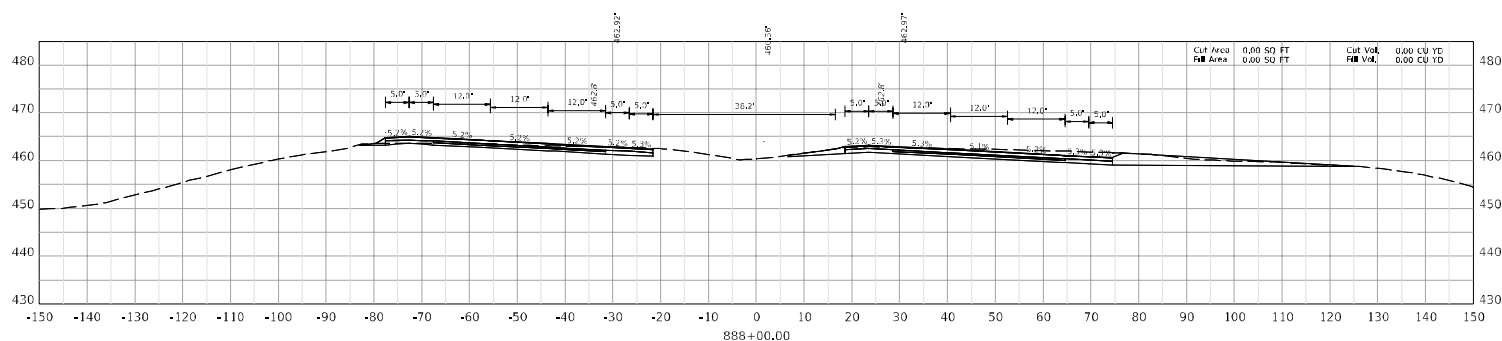




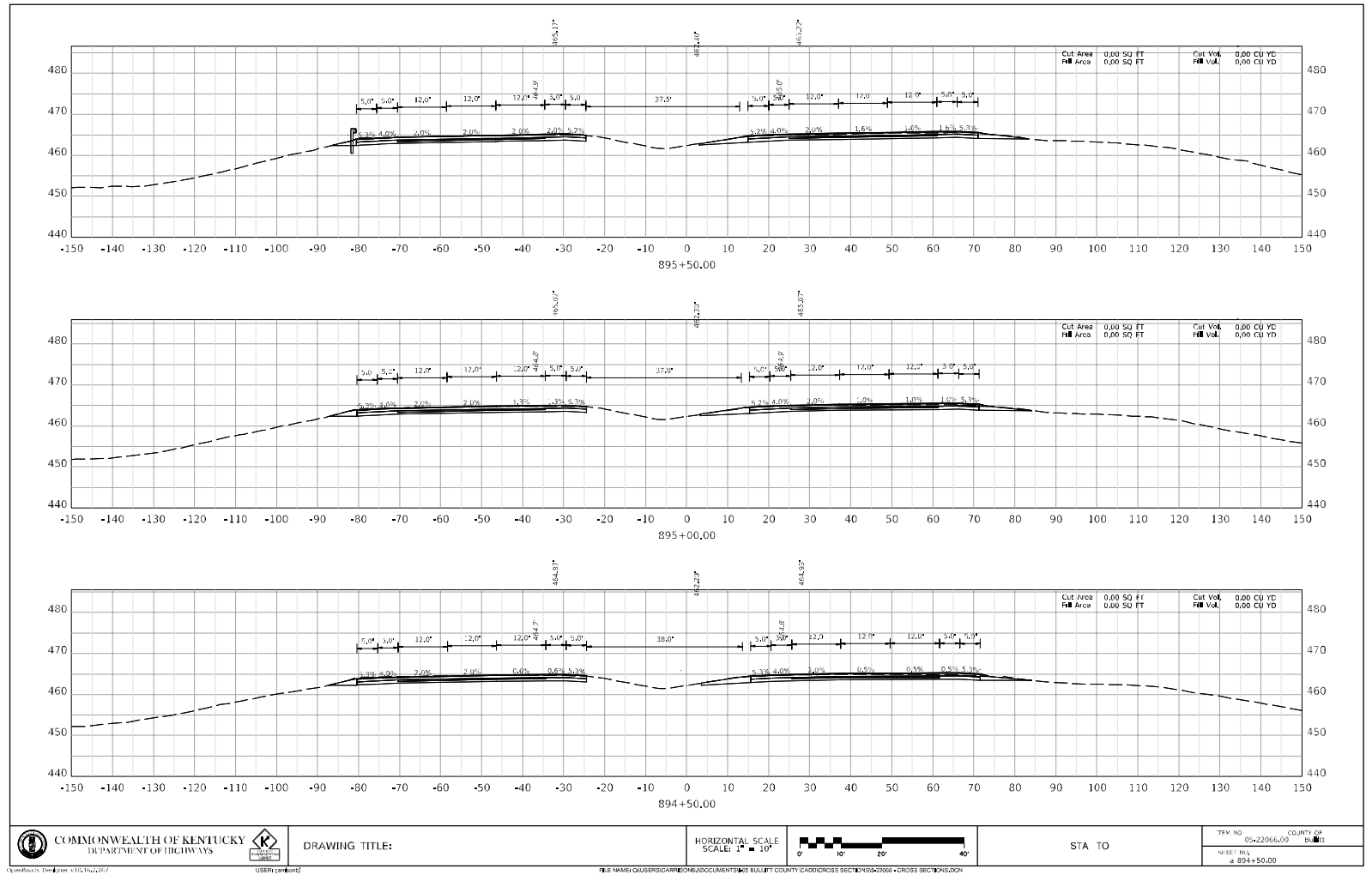
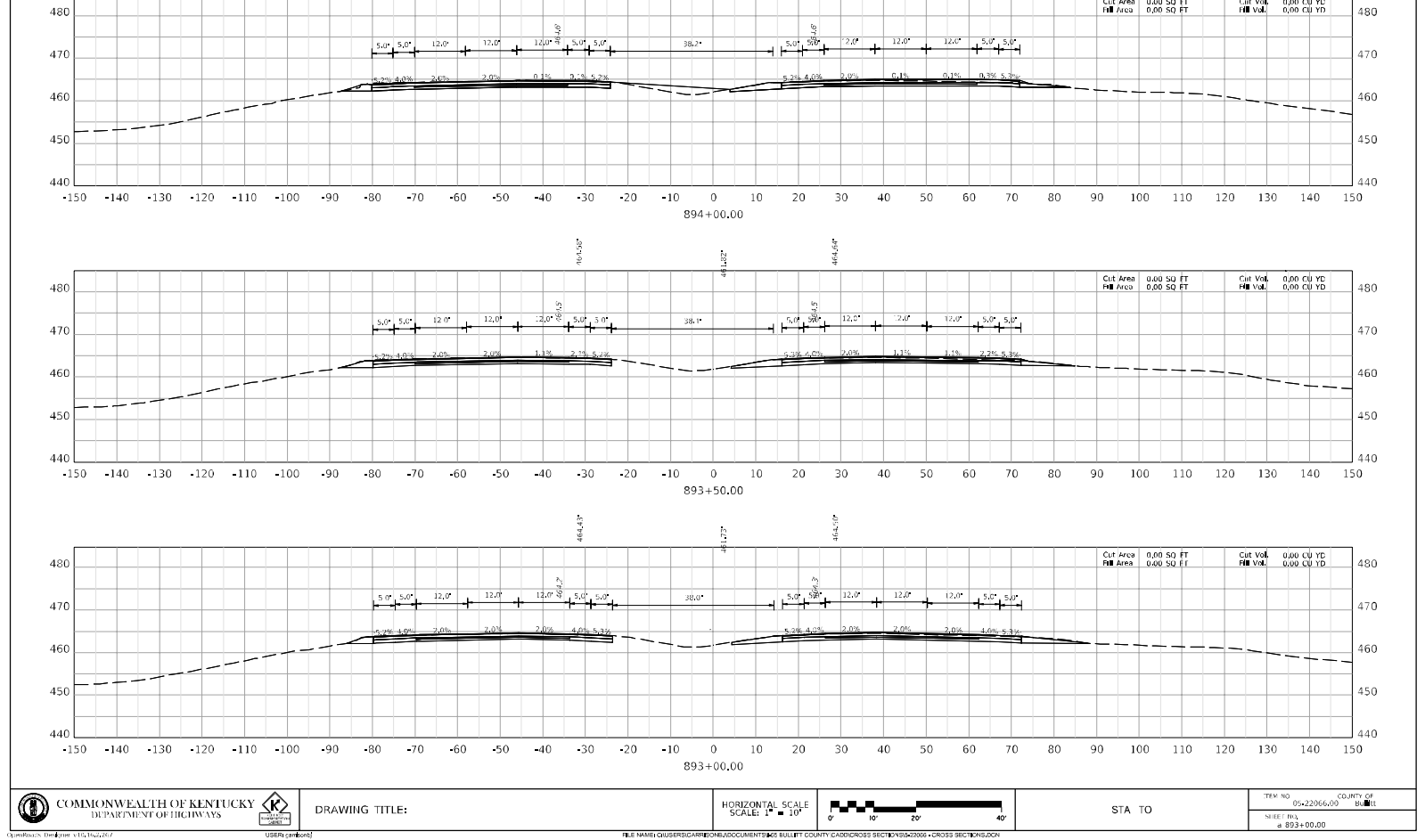
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					SHEET NO. 885+50.00	

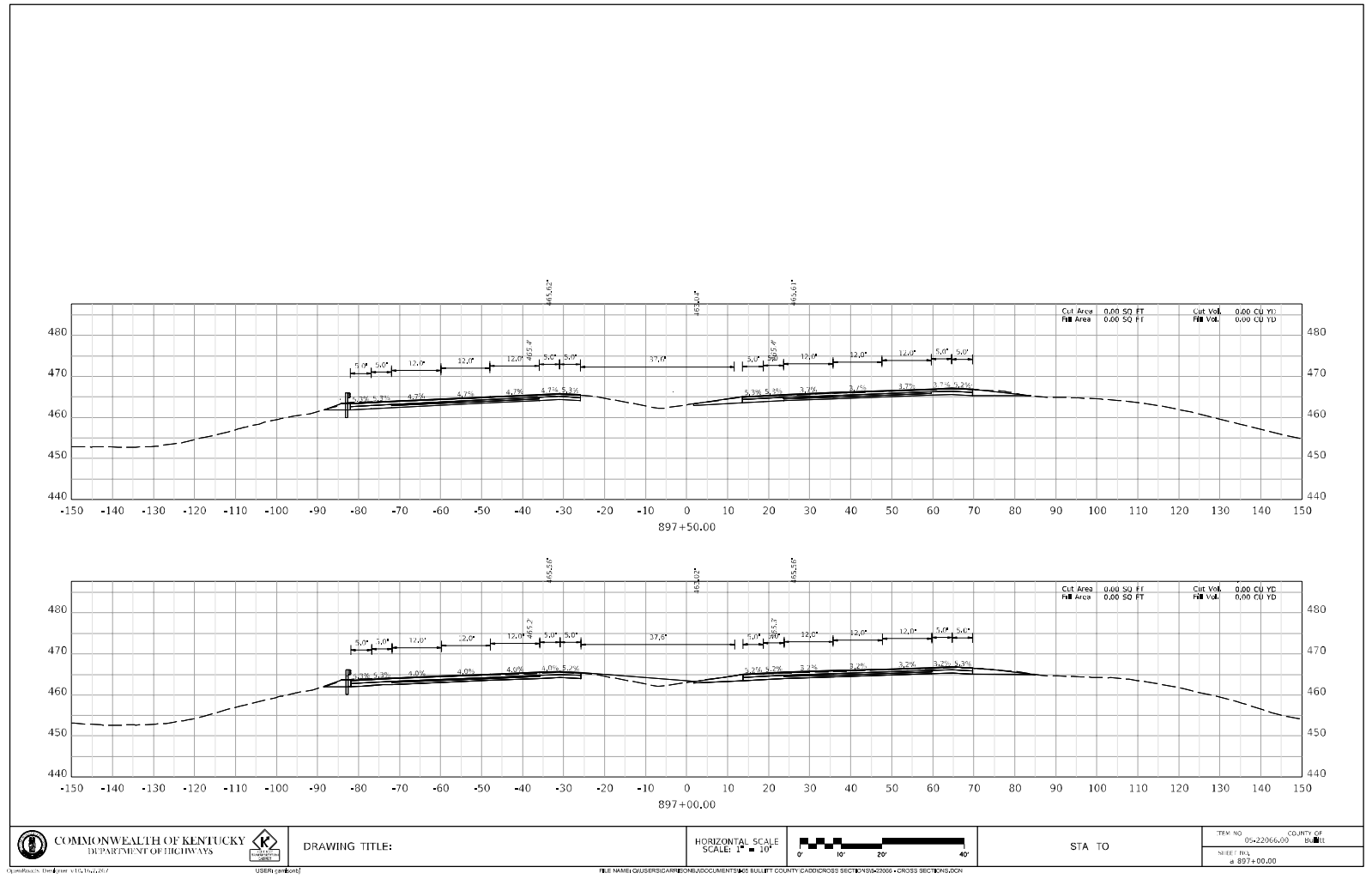
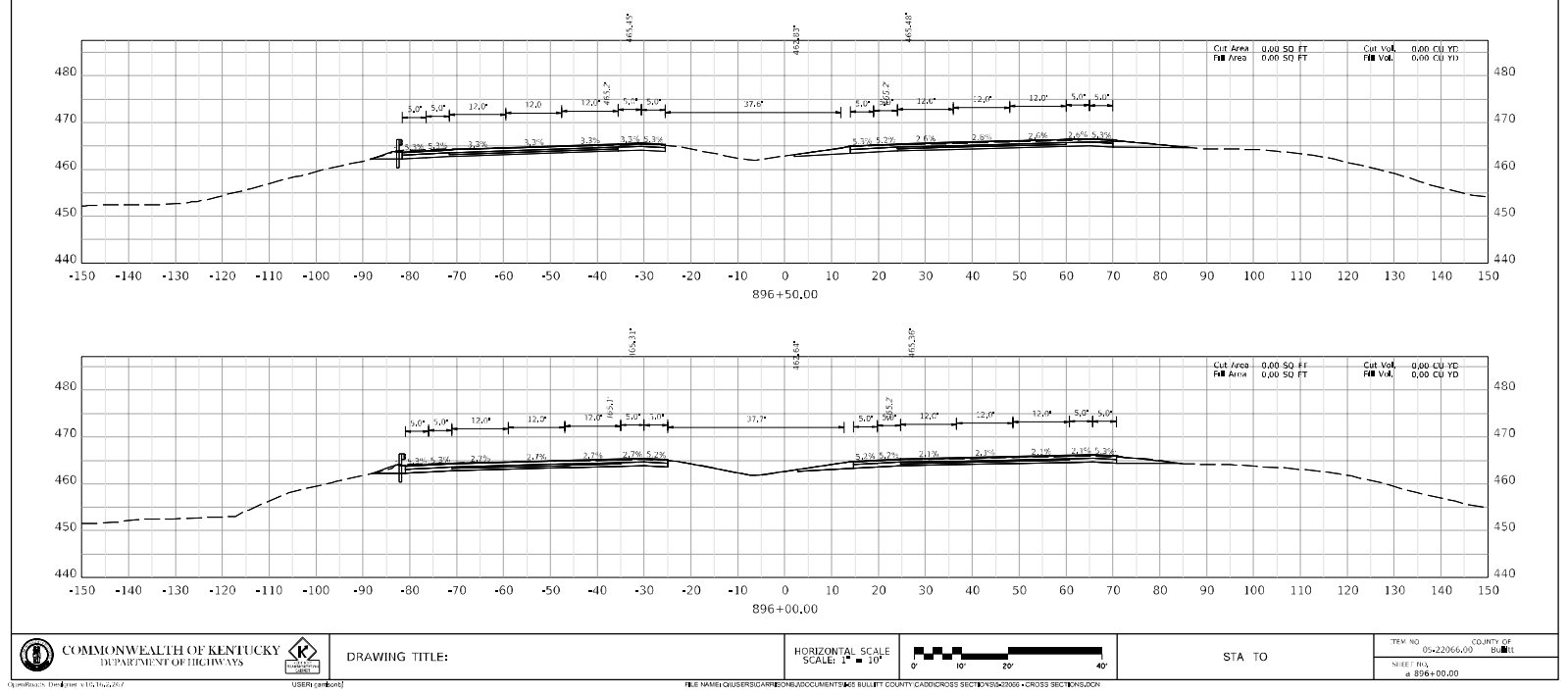


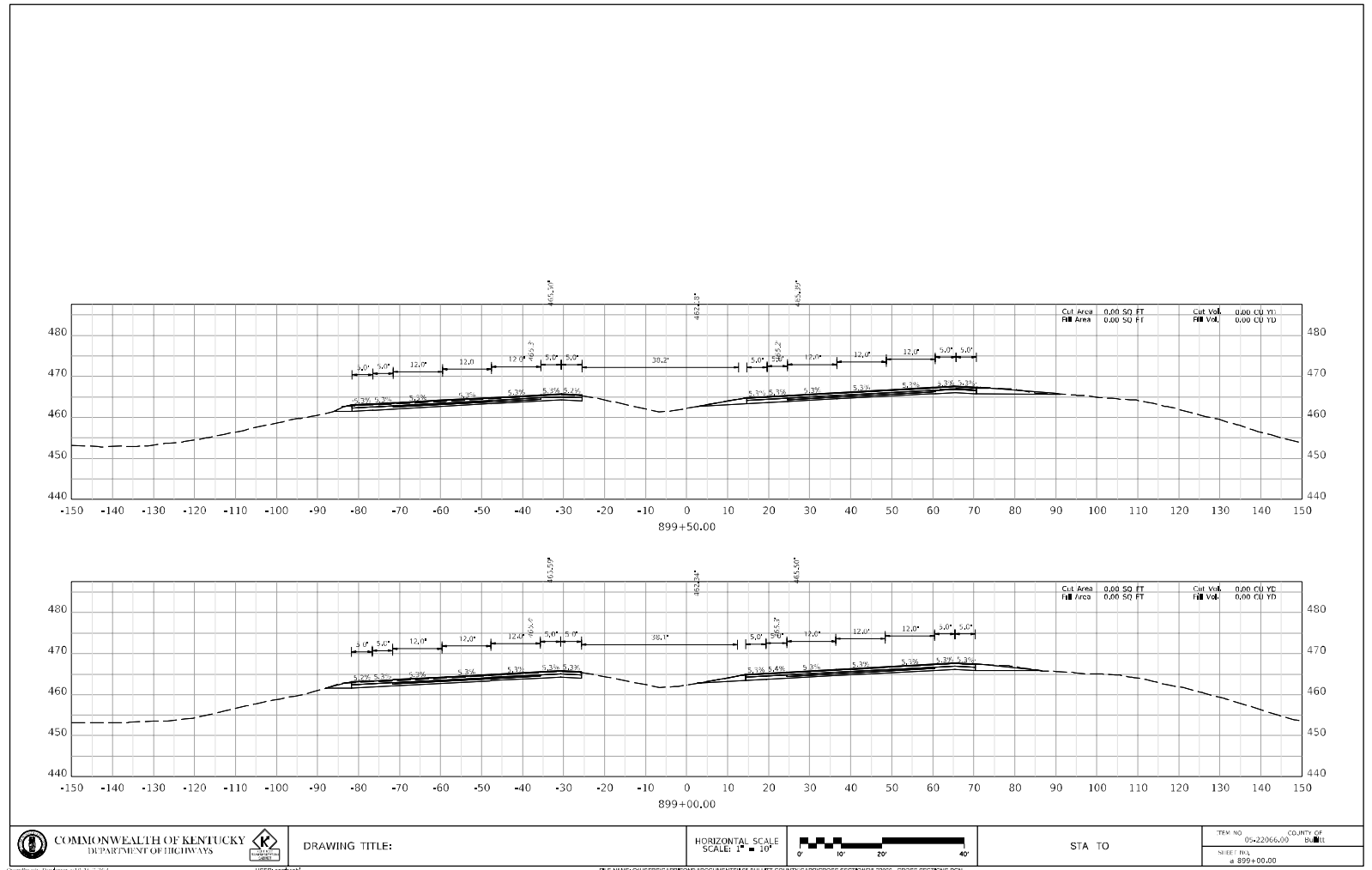
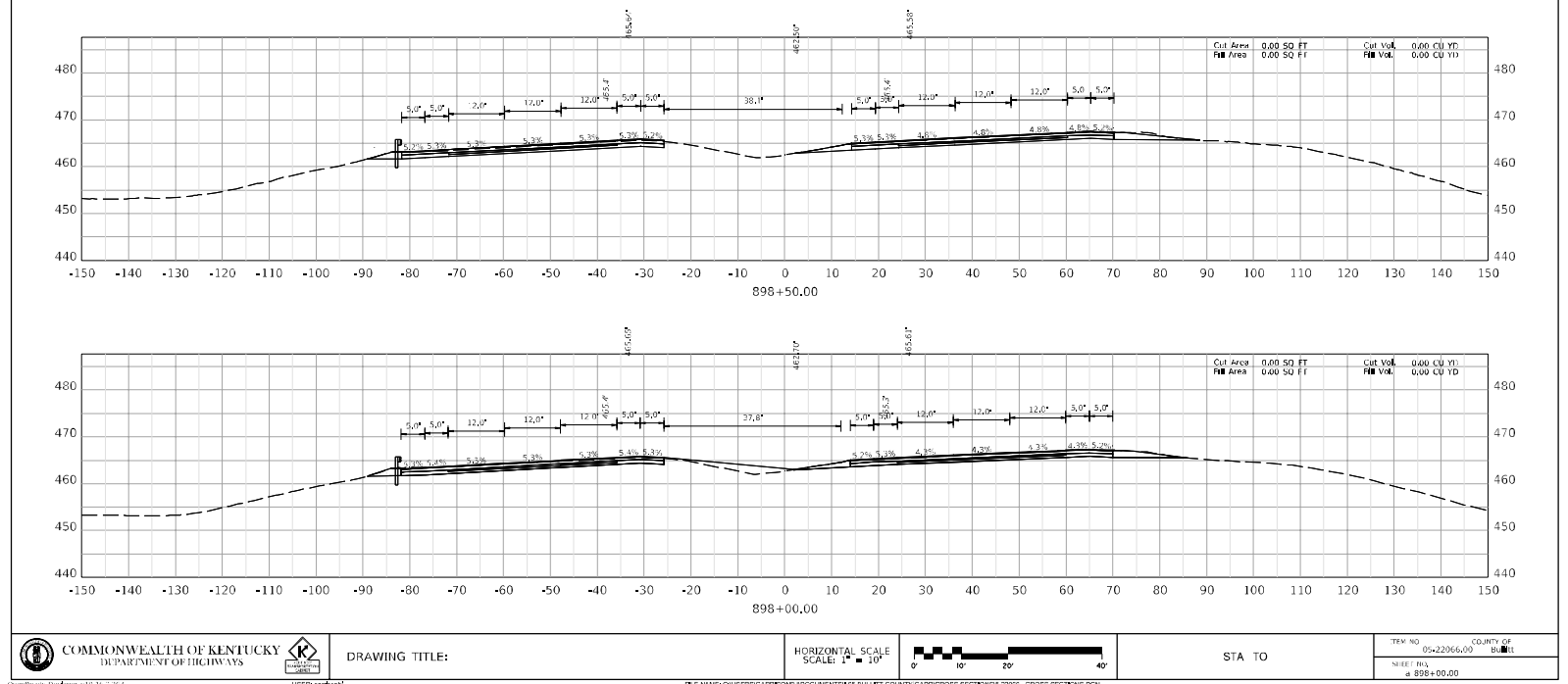
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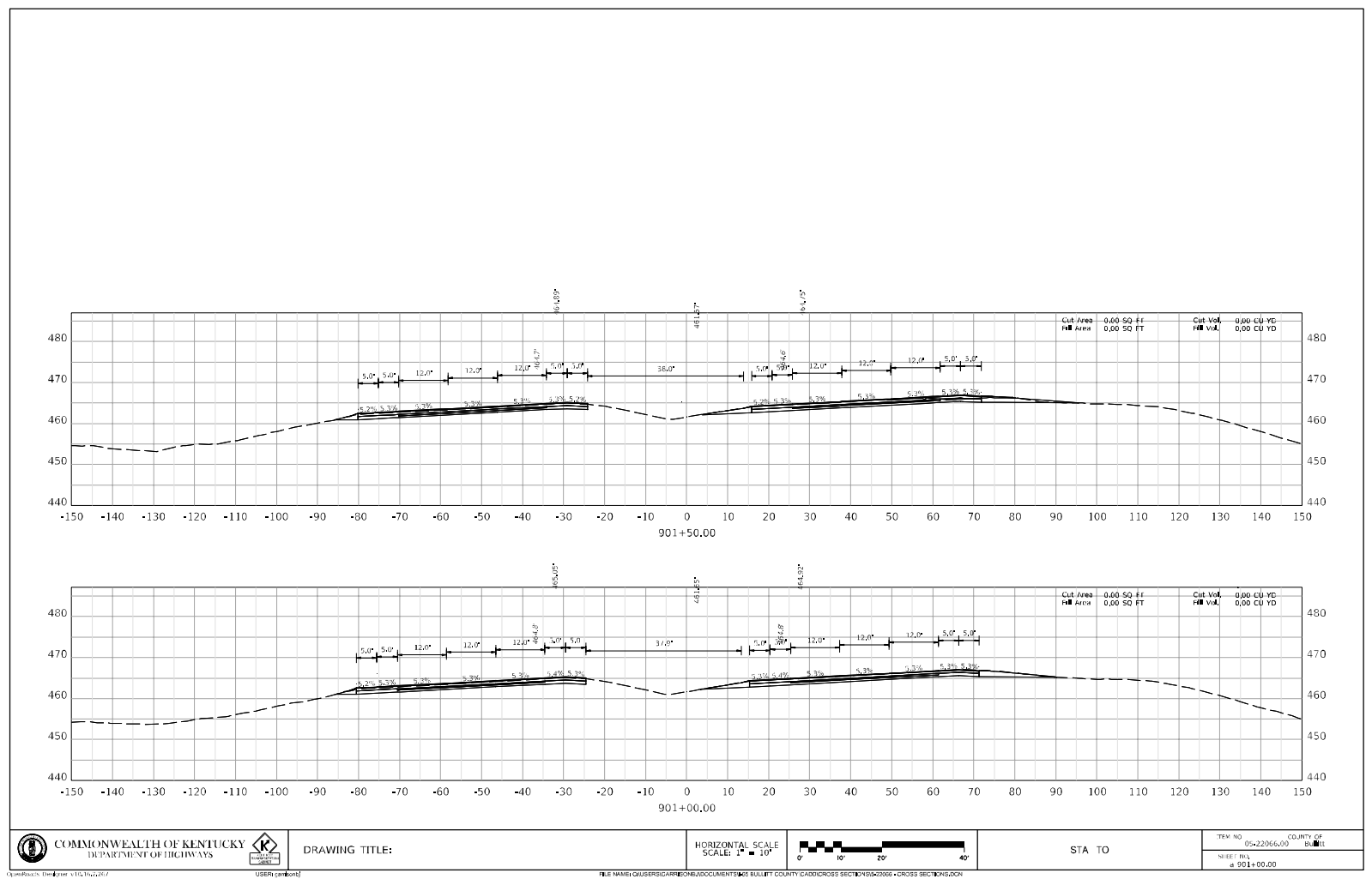
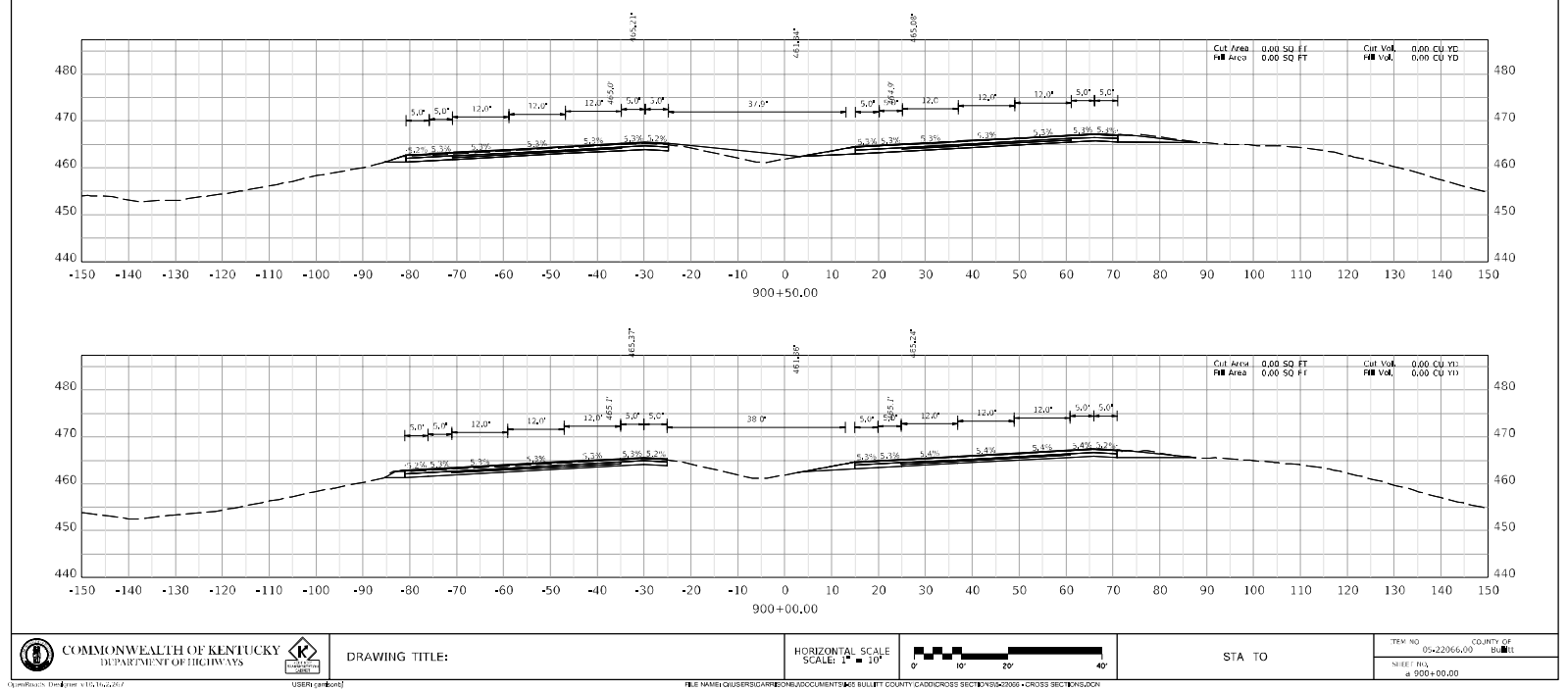


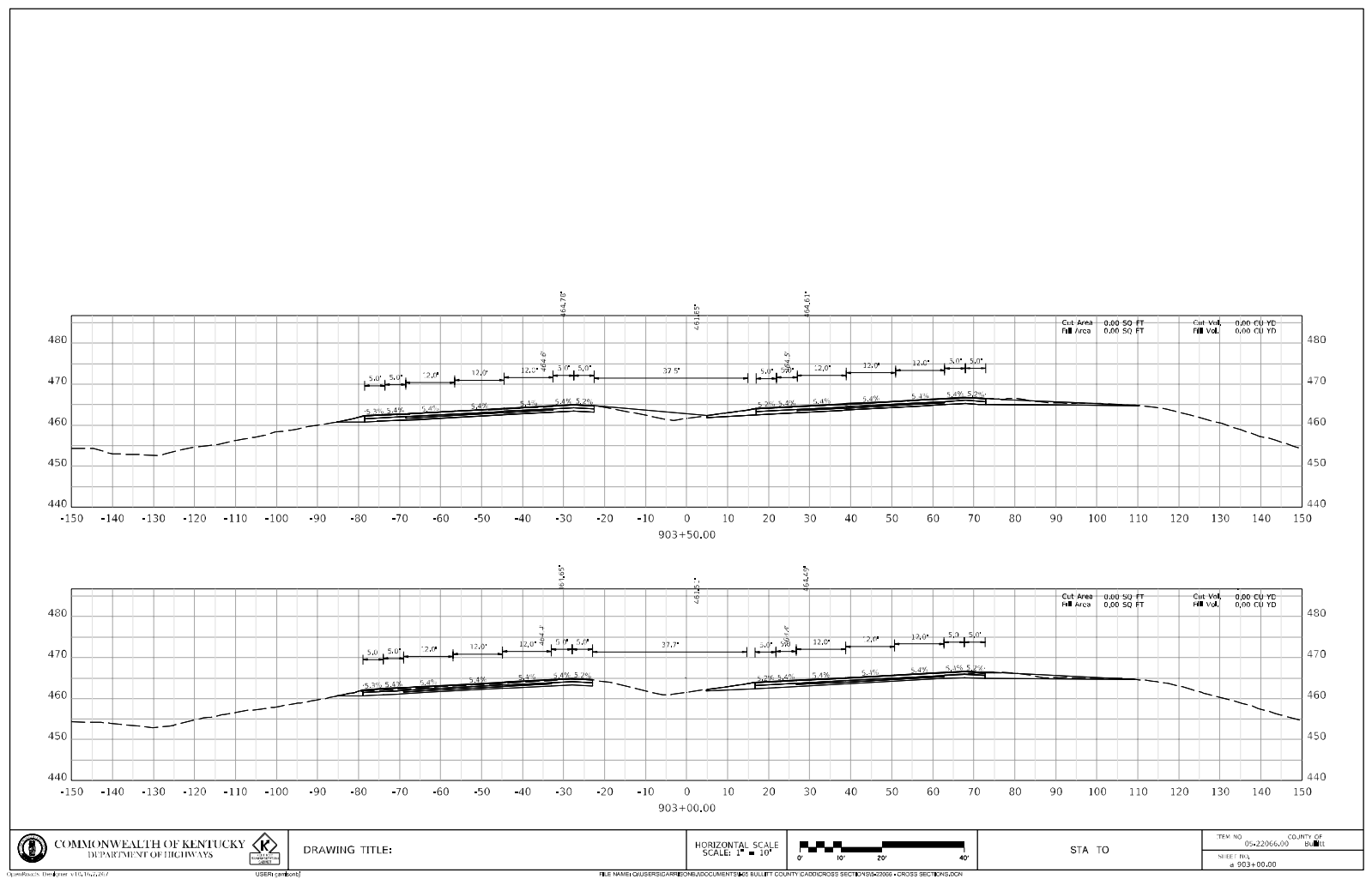
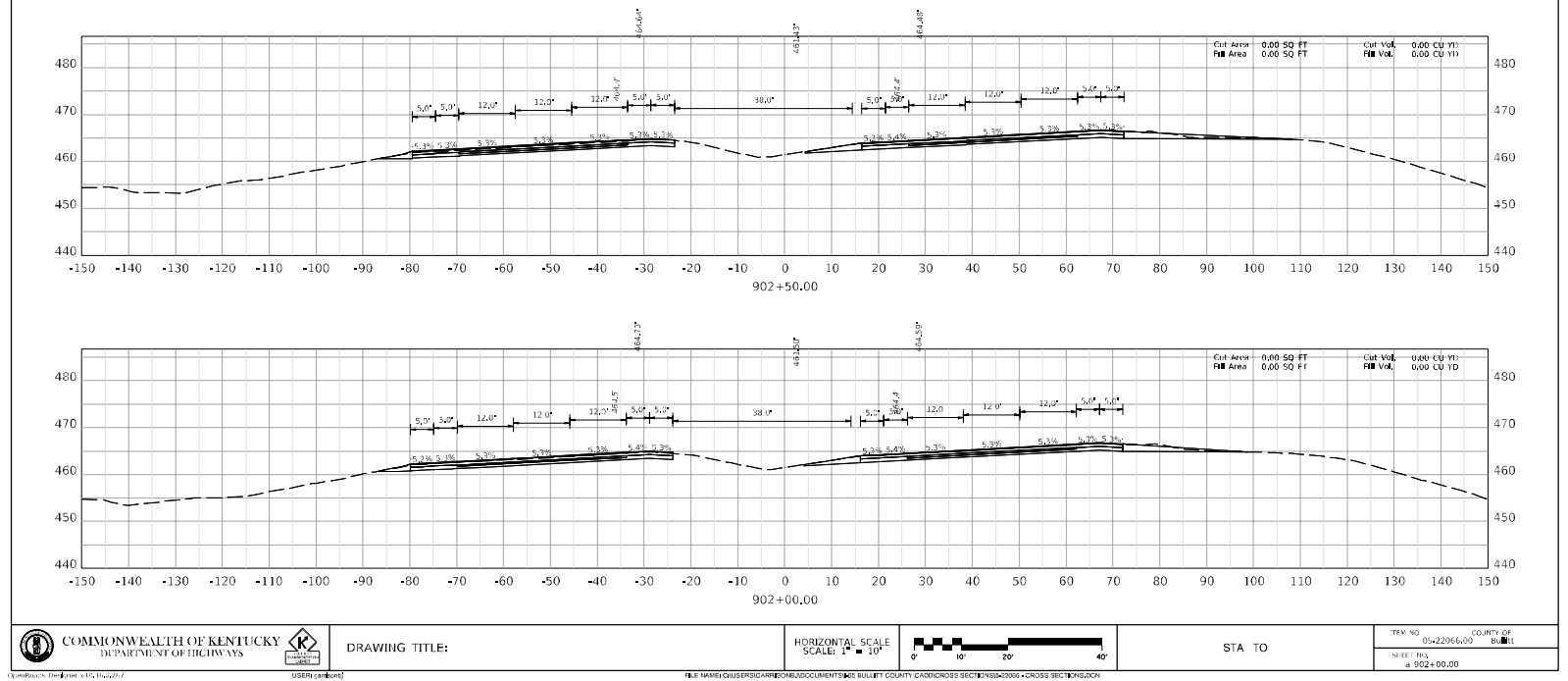


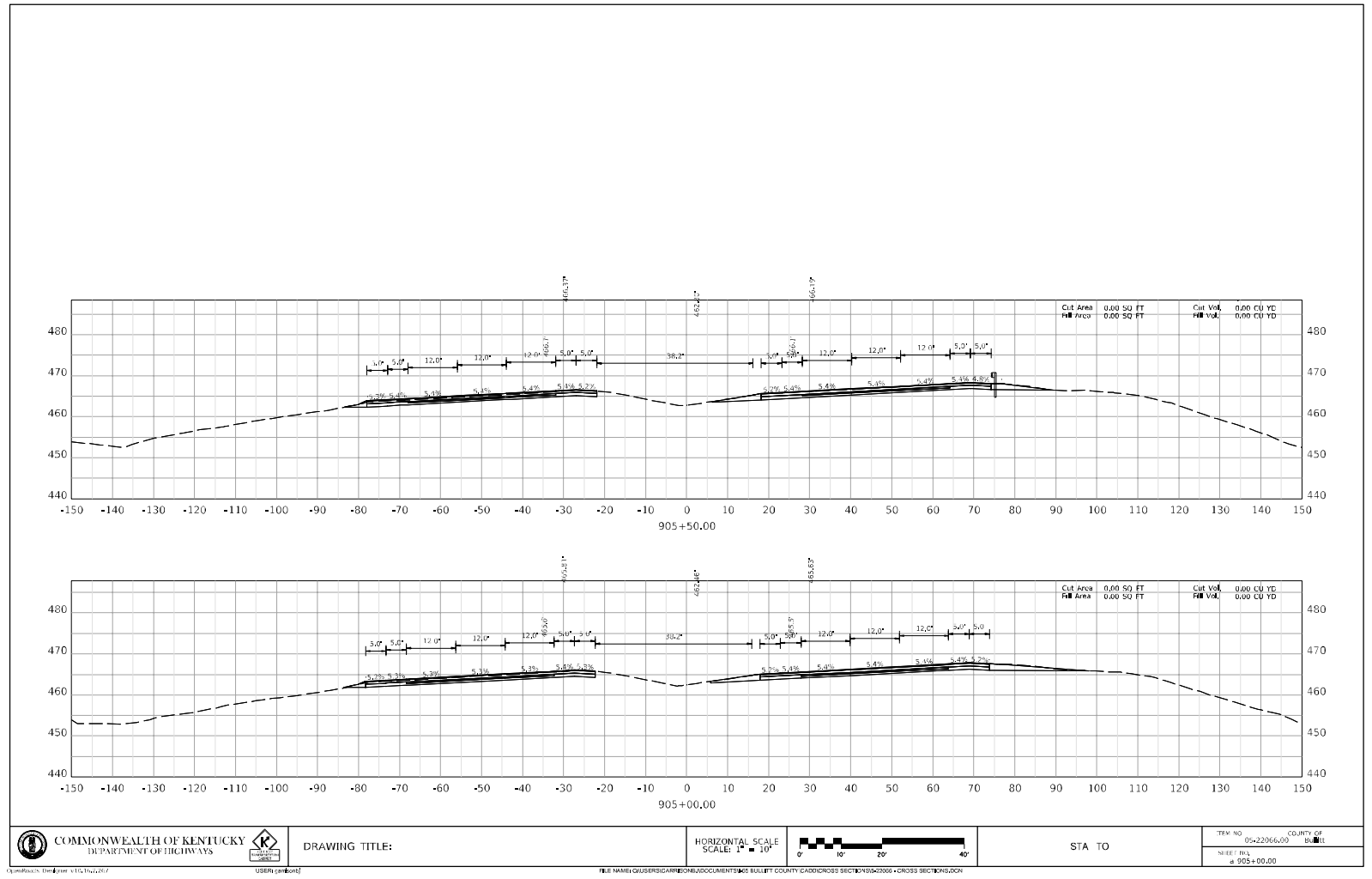
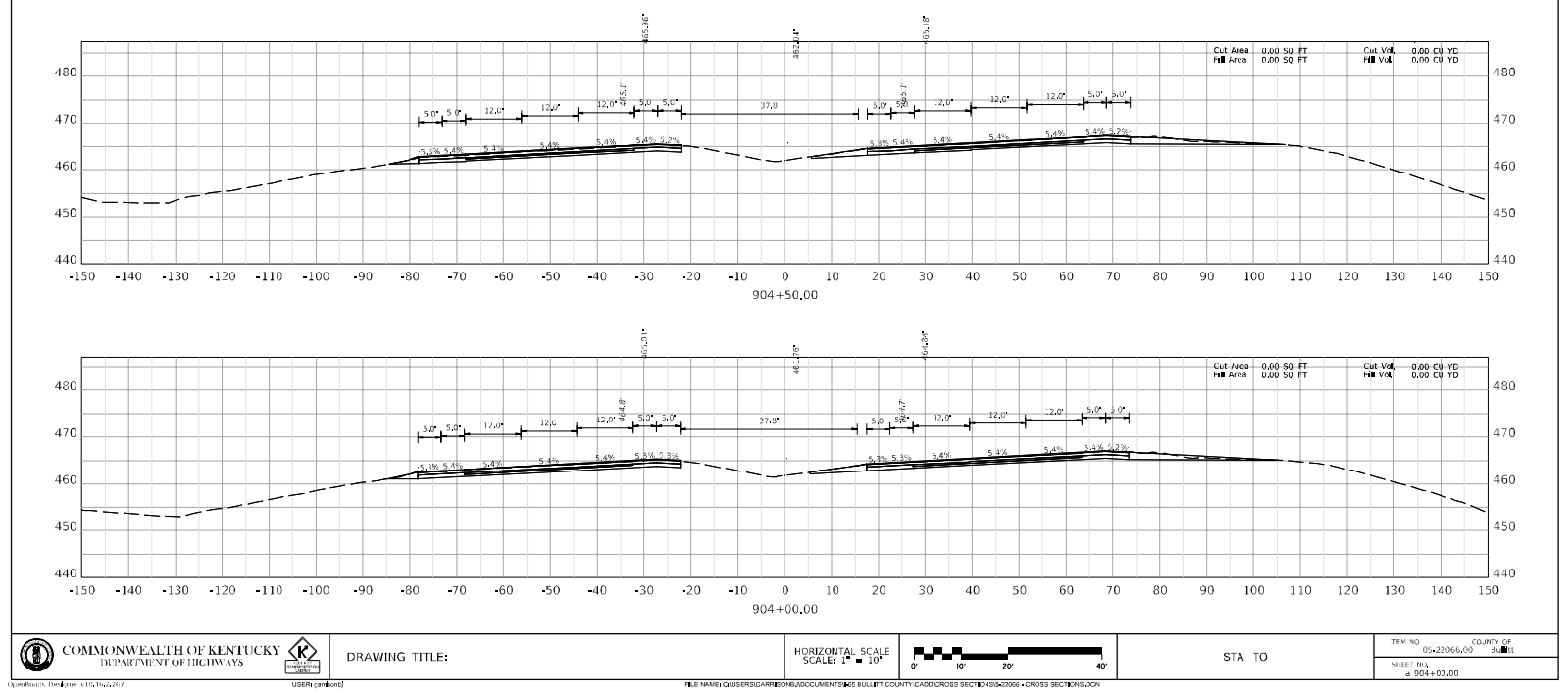


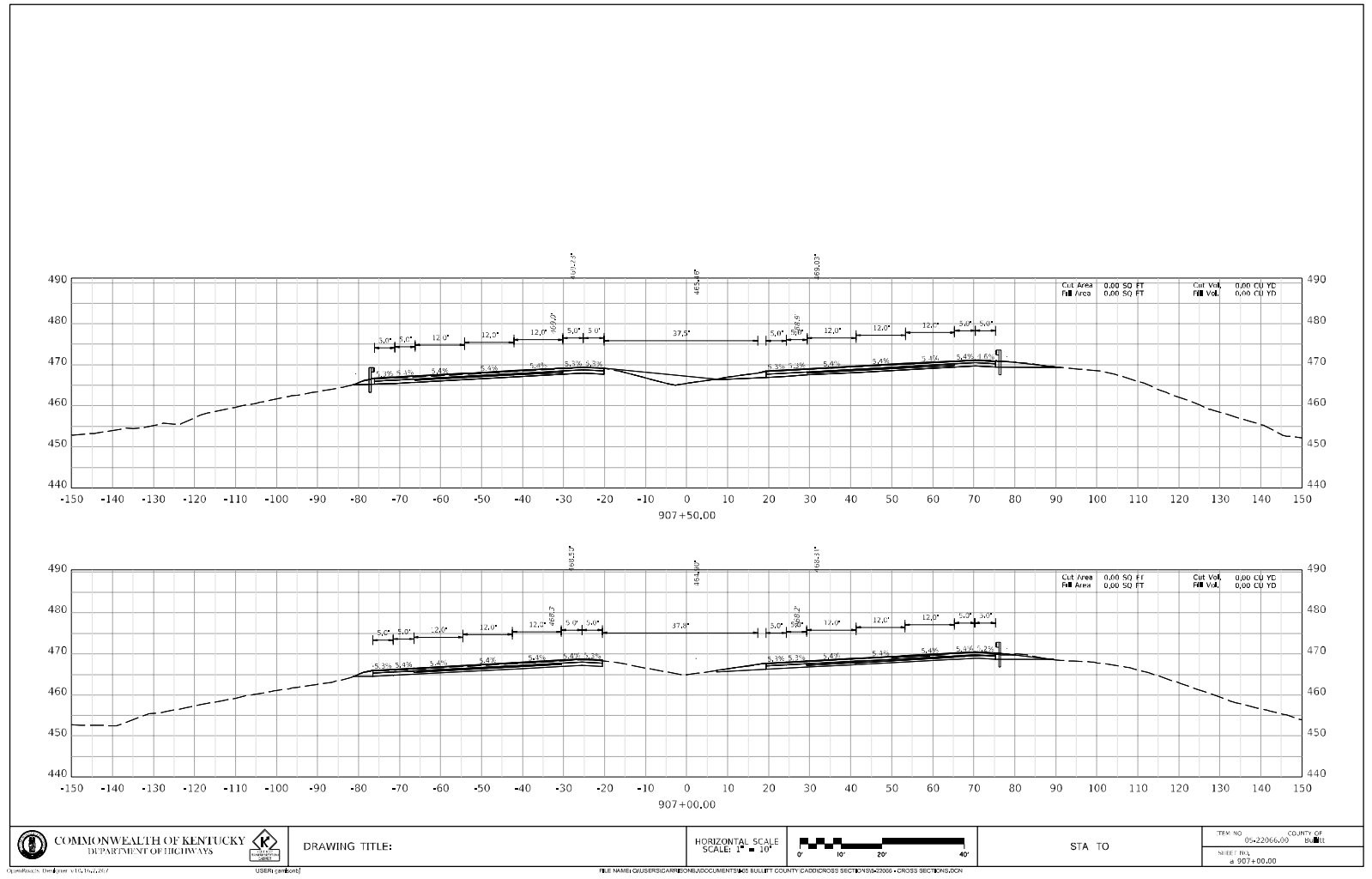
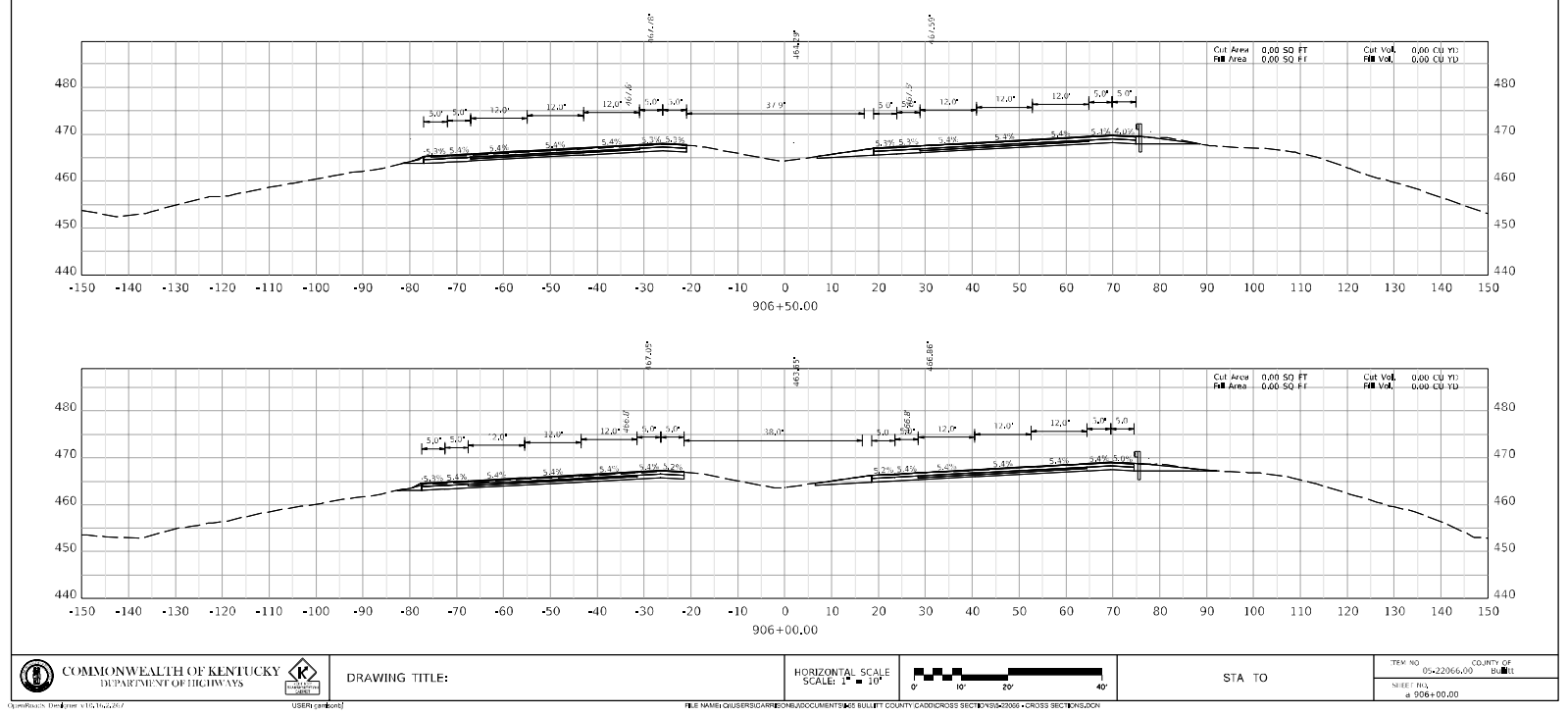


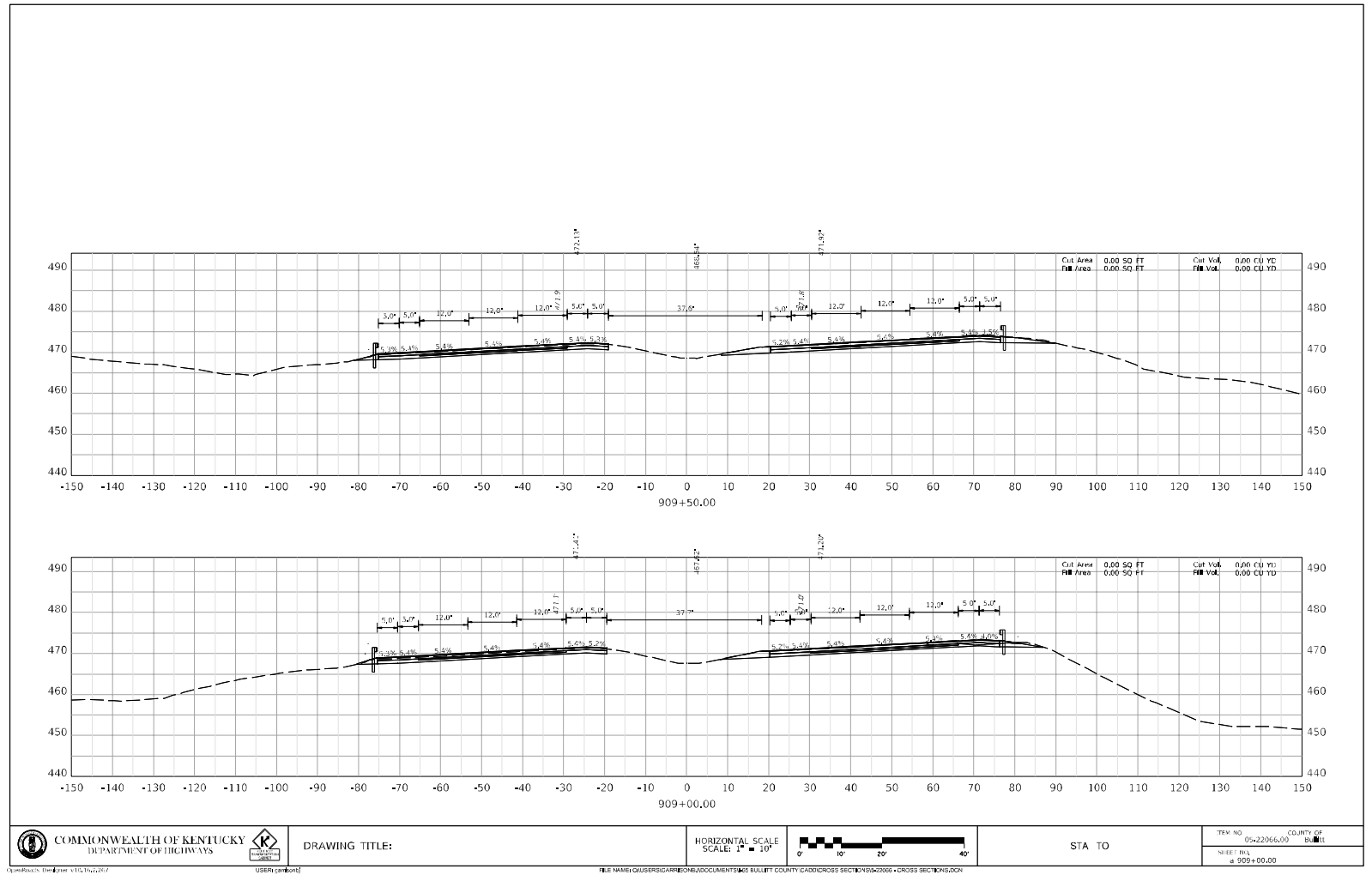
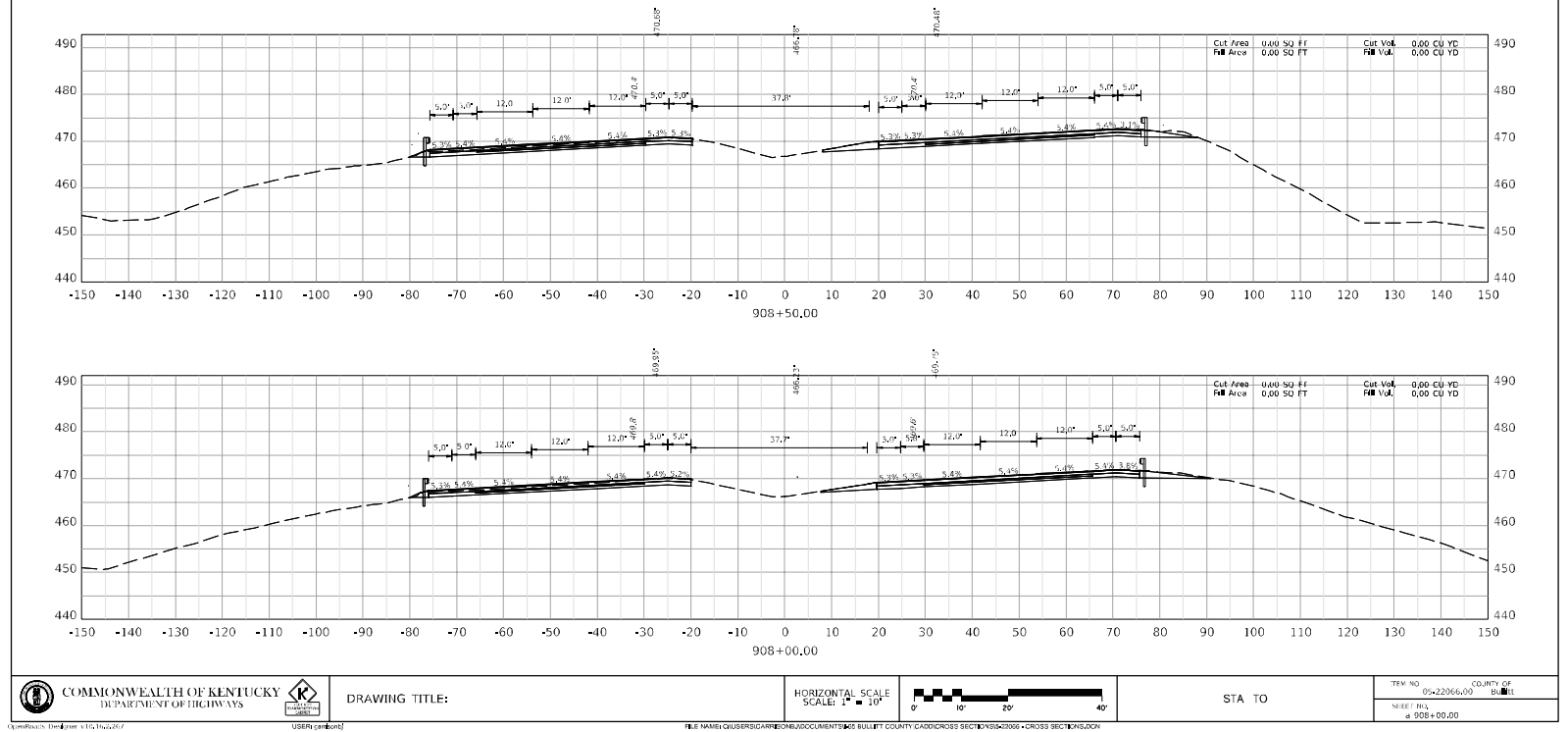


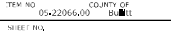


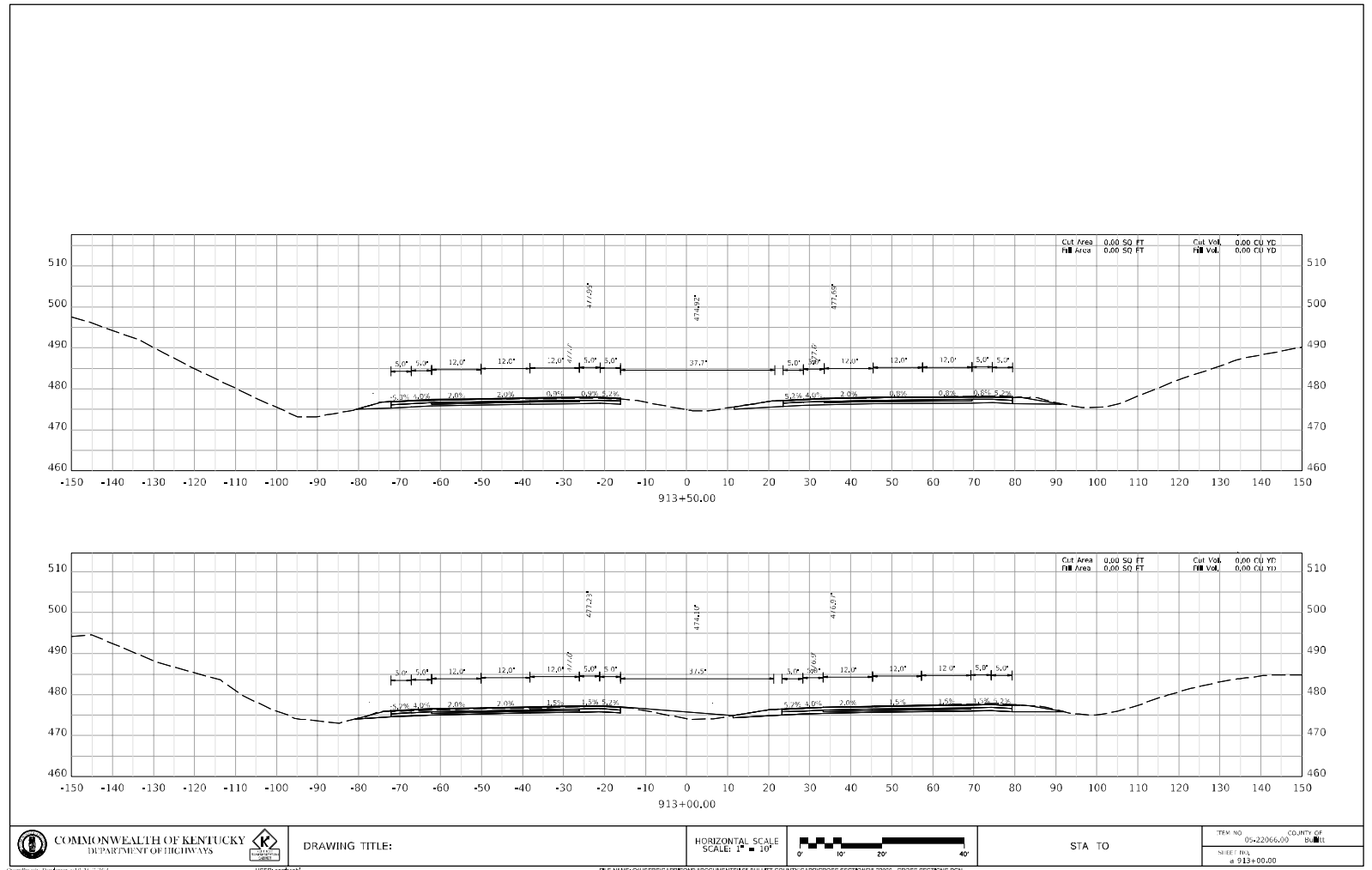
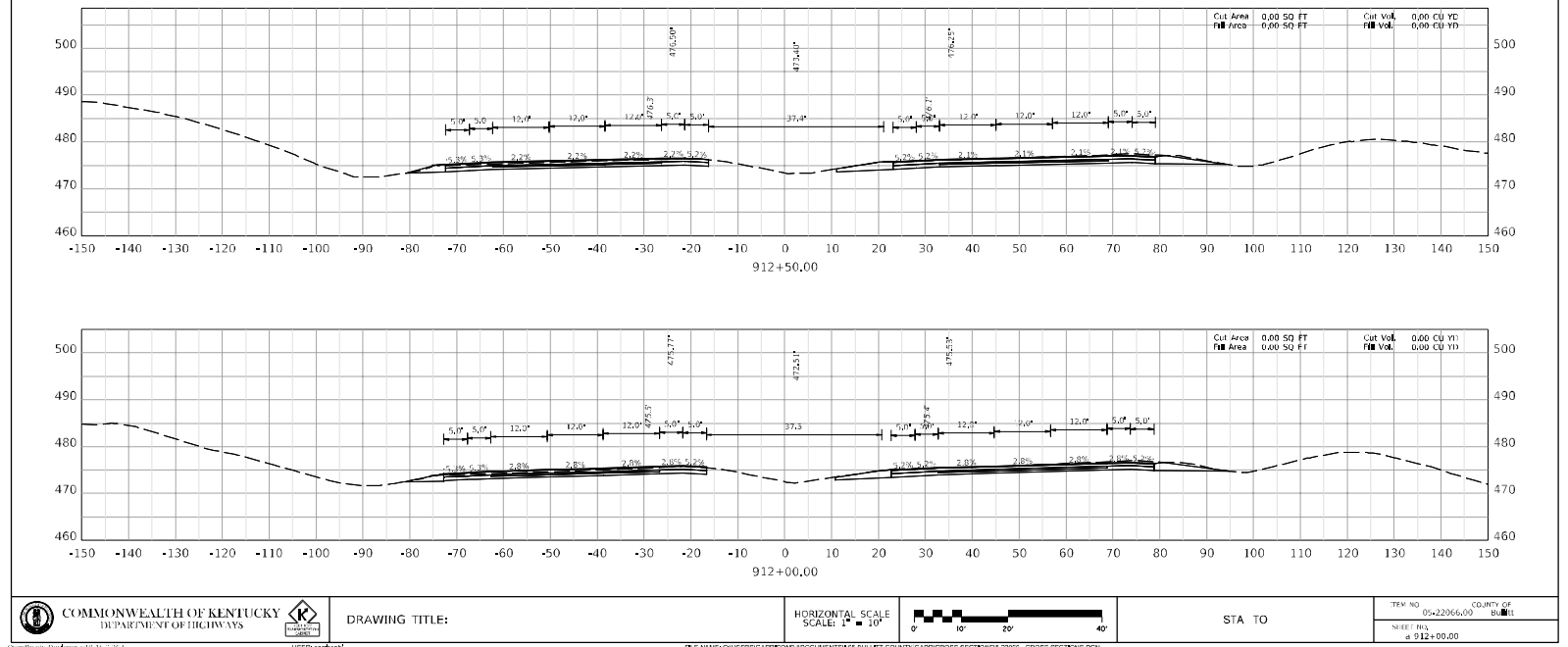


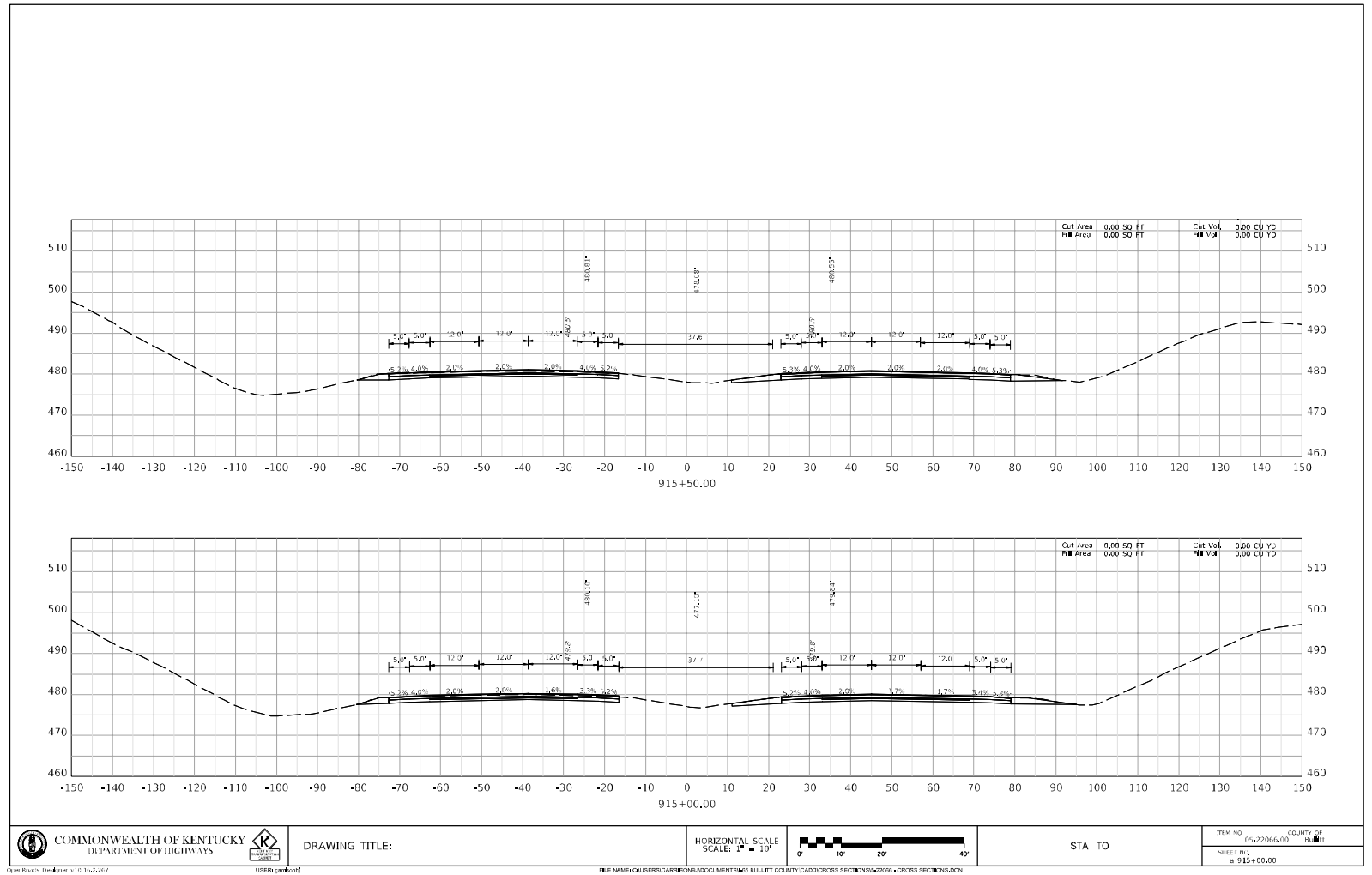
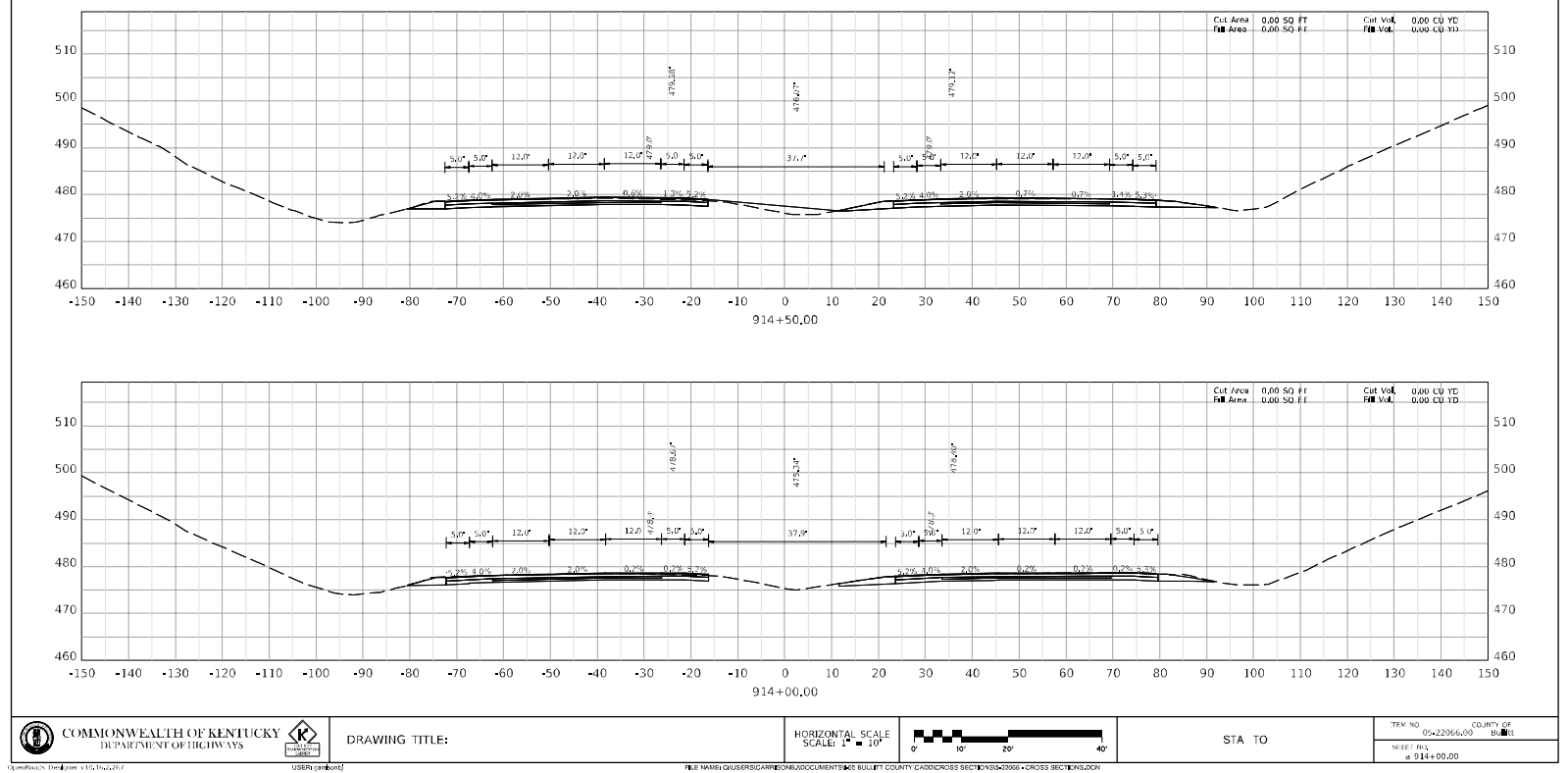




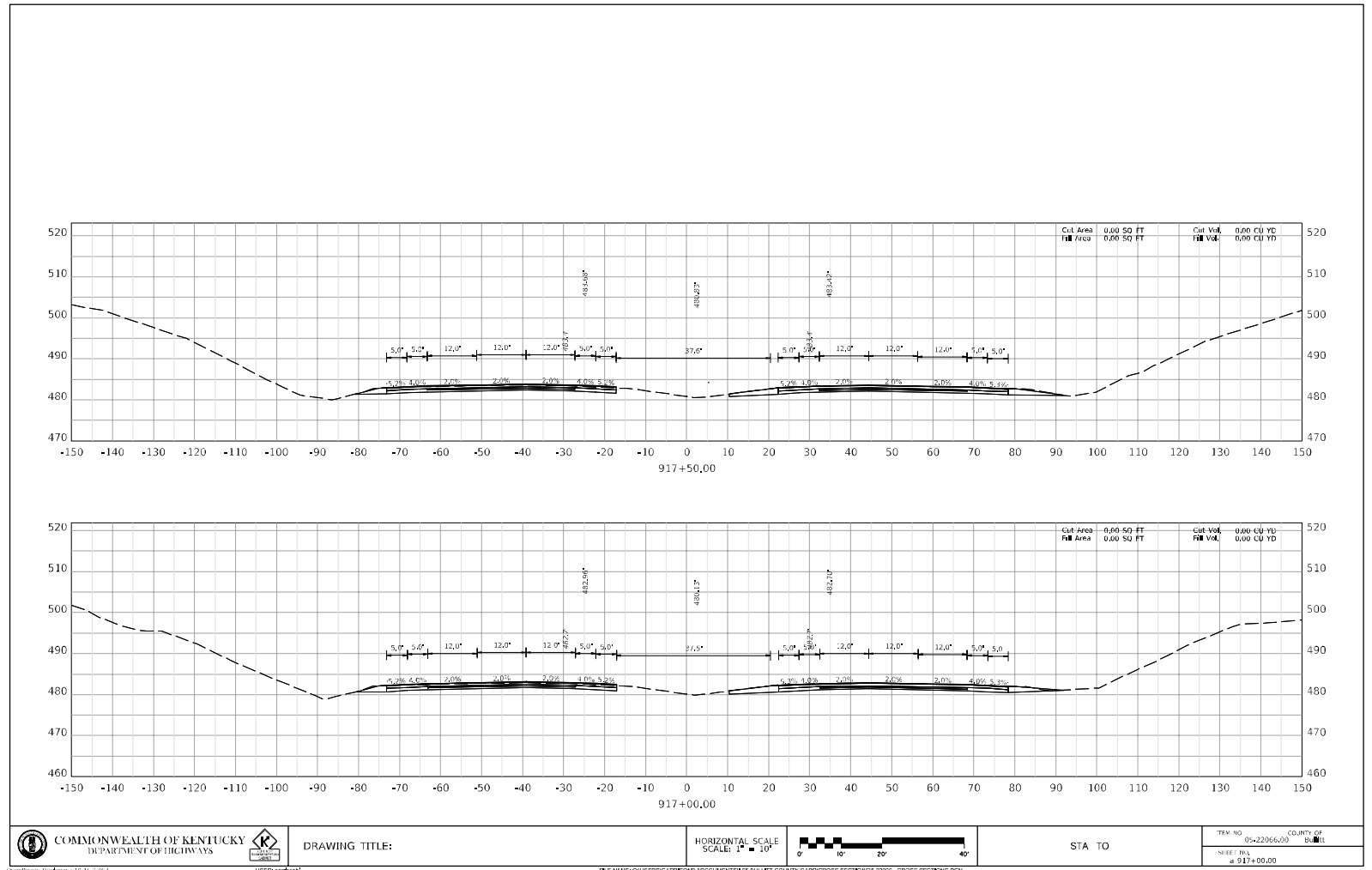
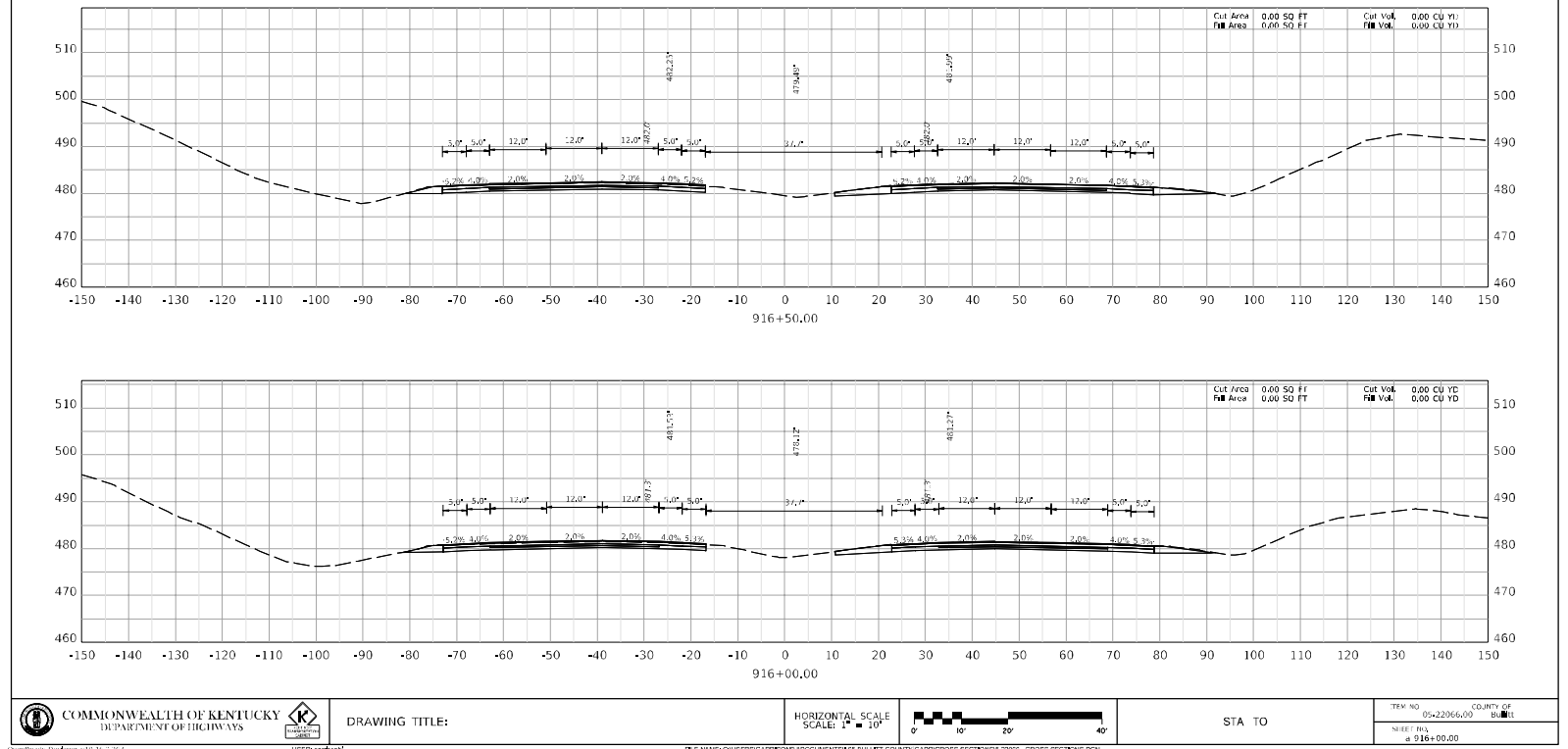


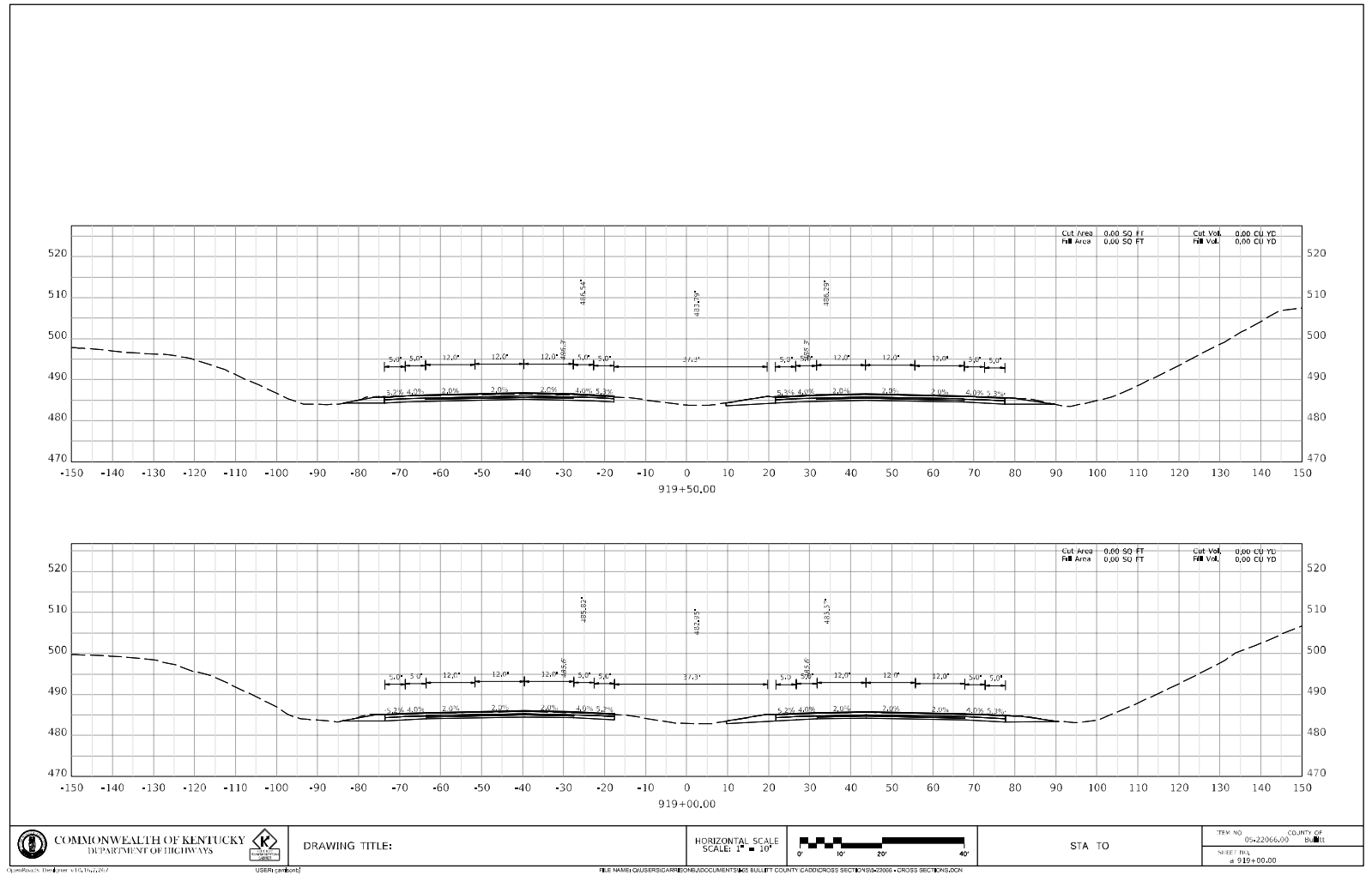
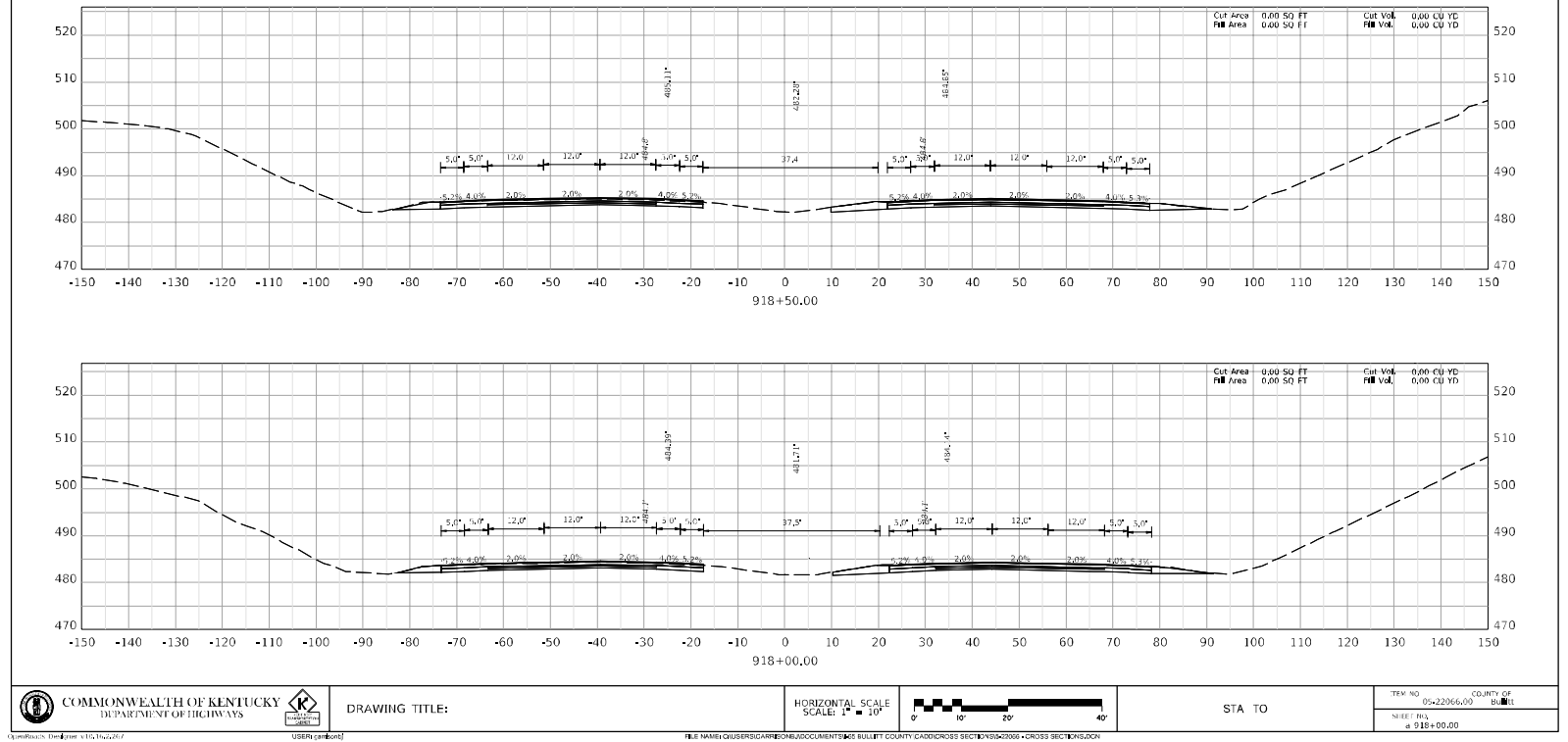


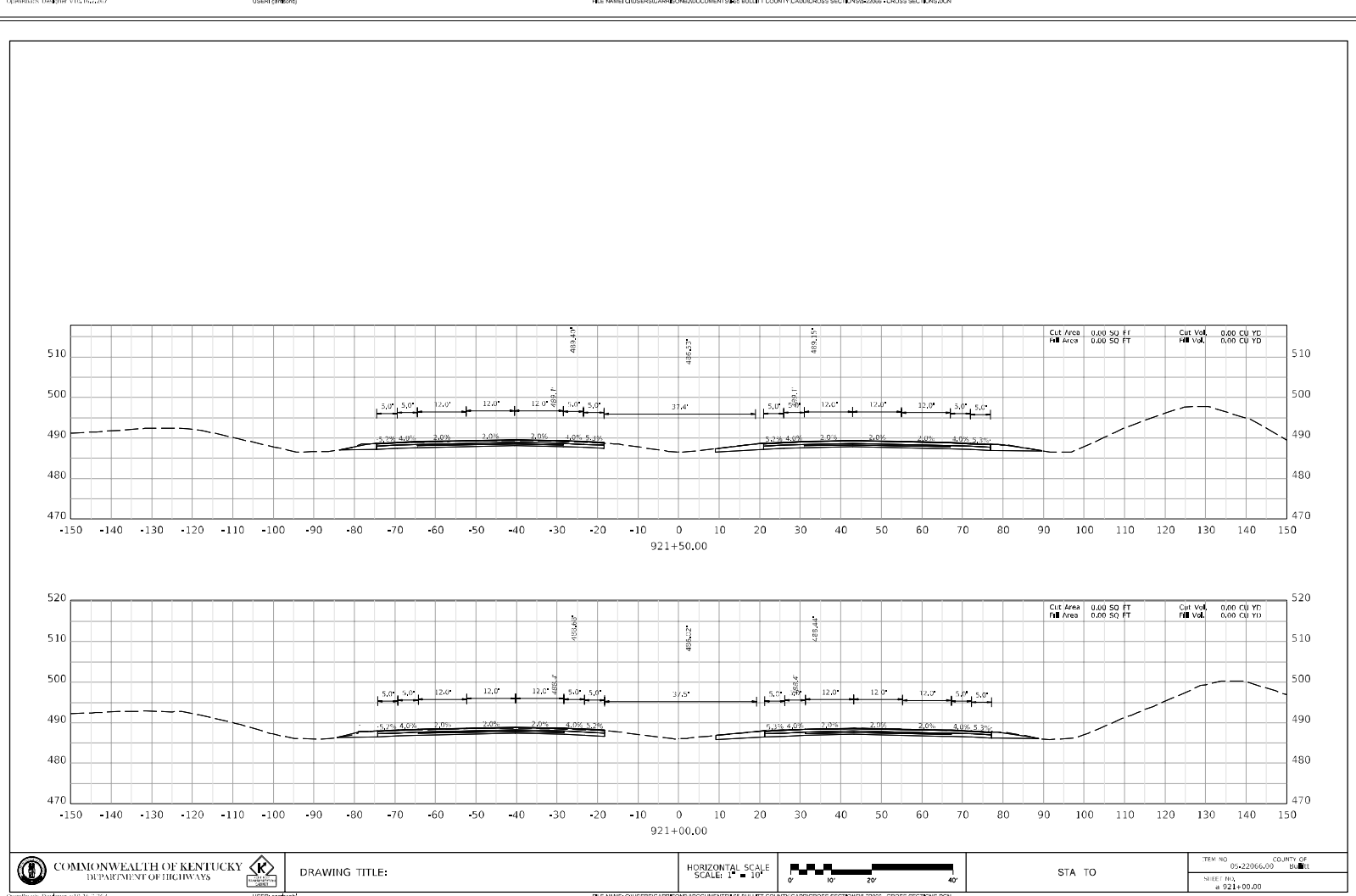
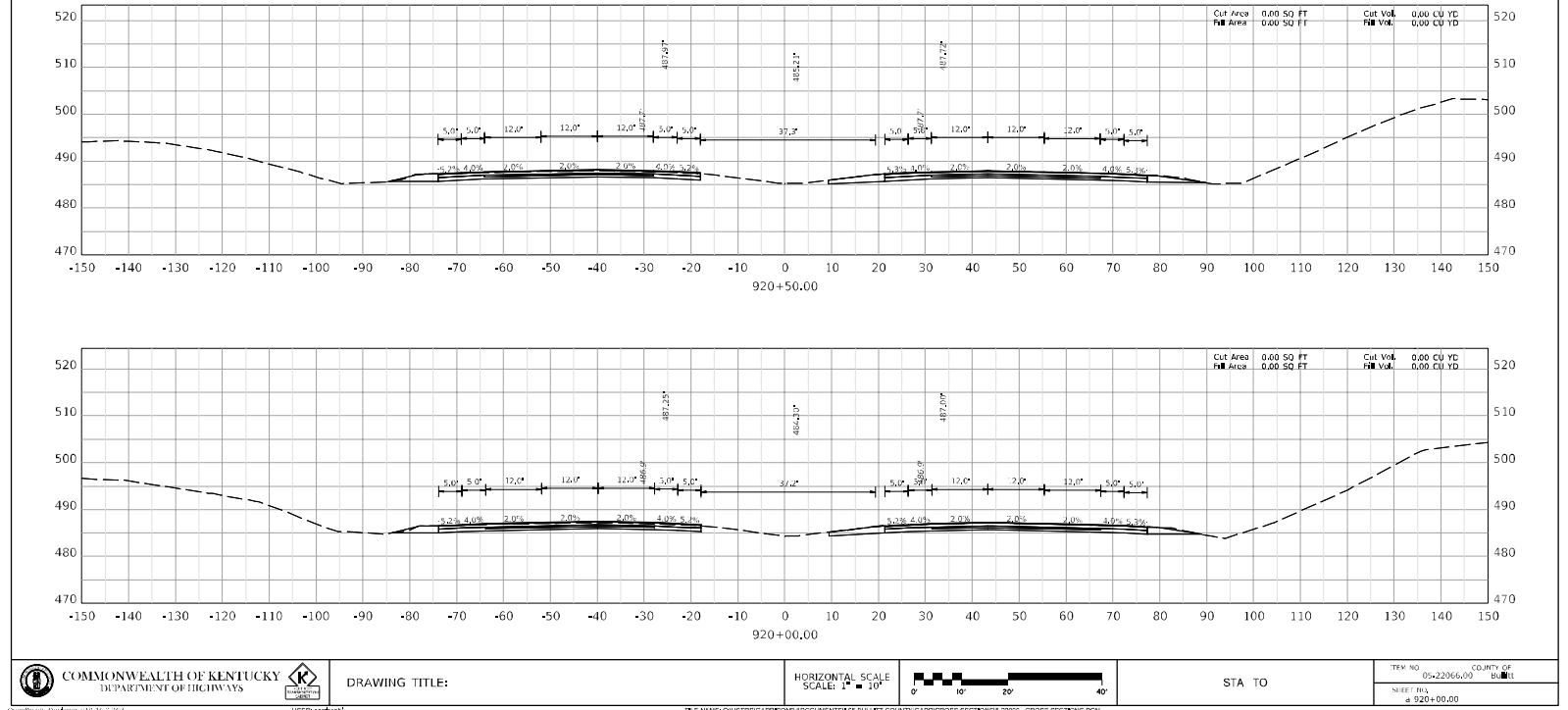


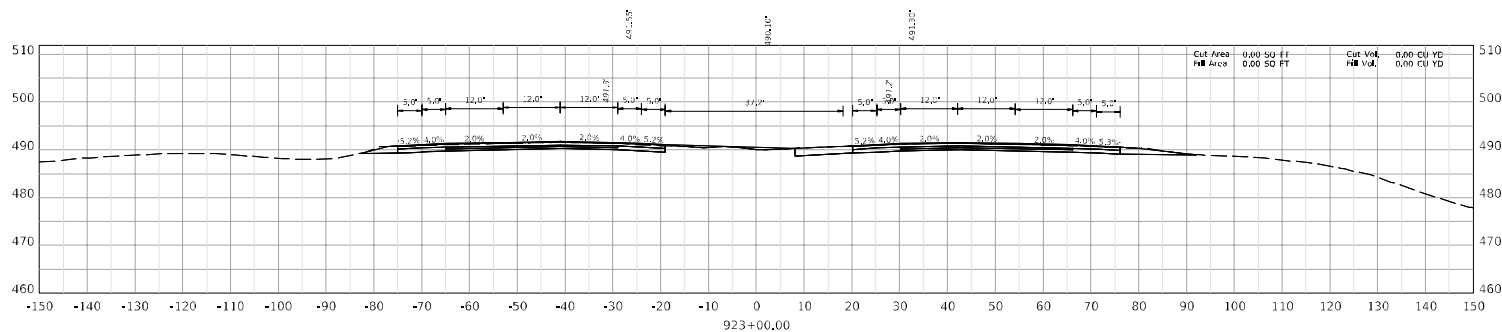
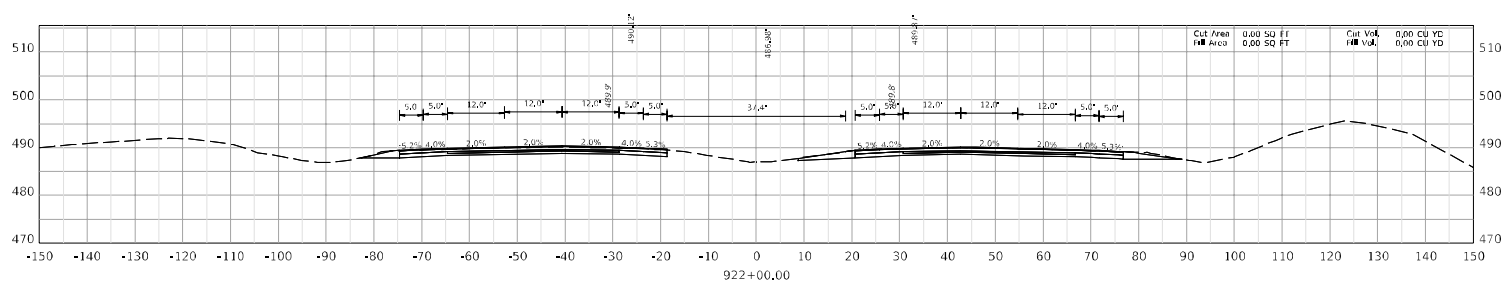




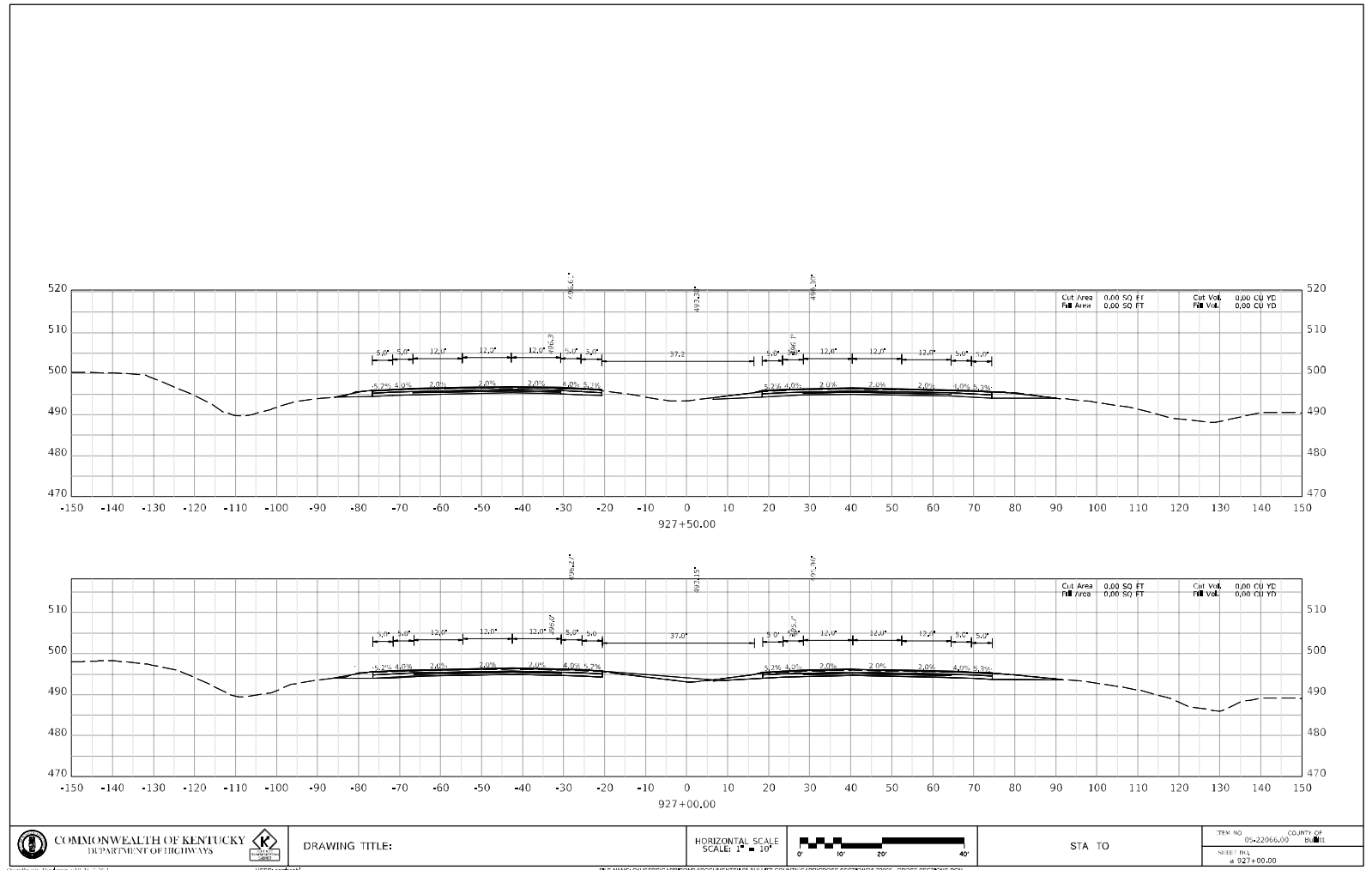
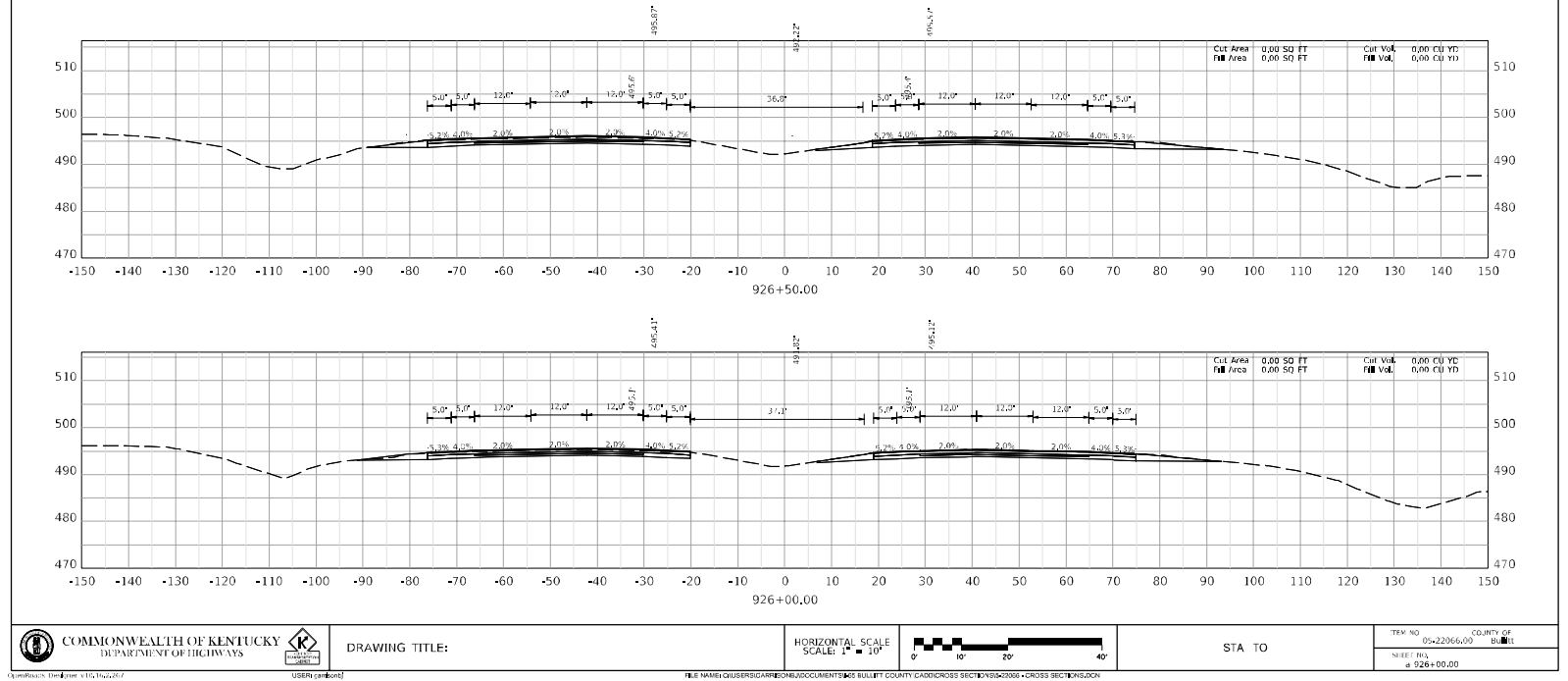








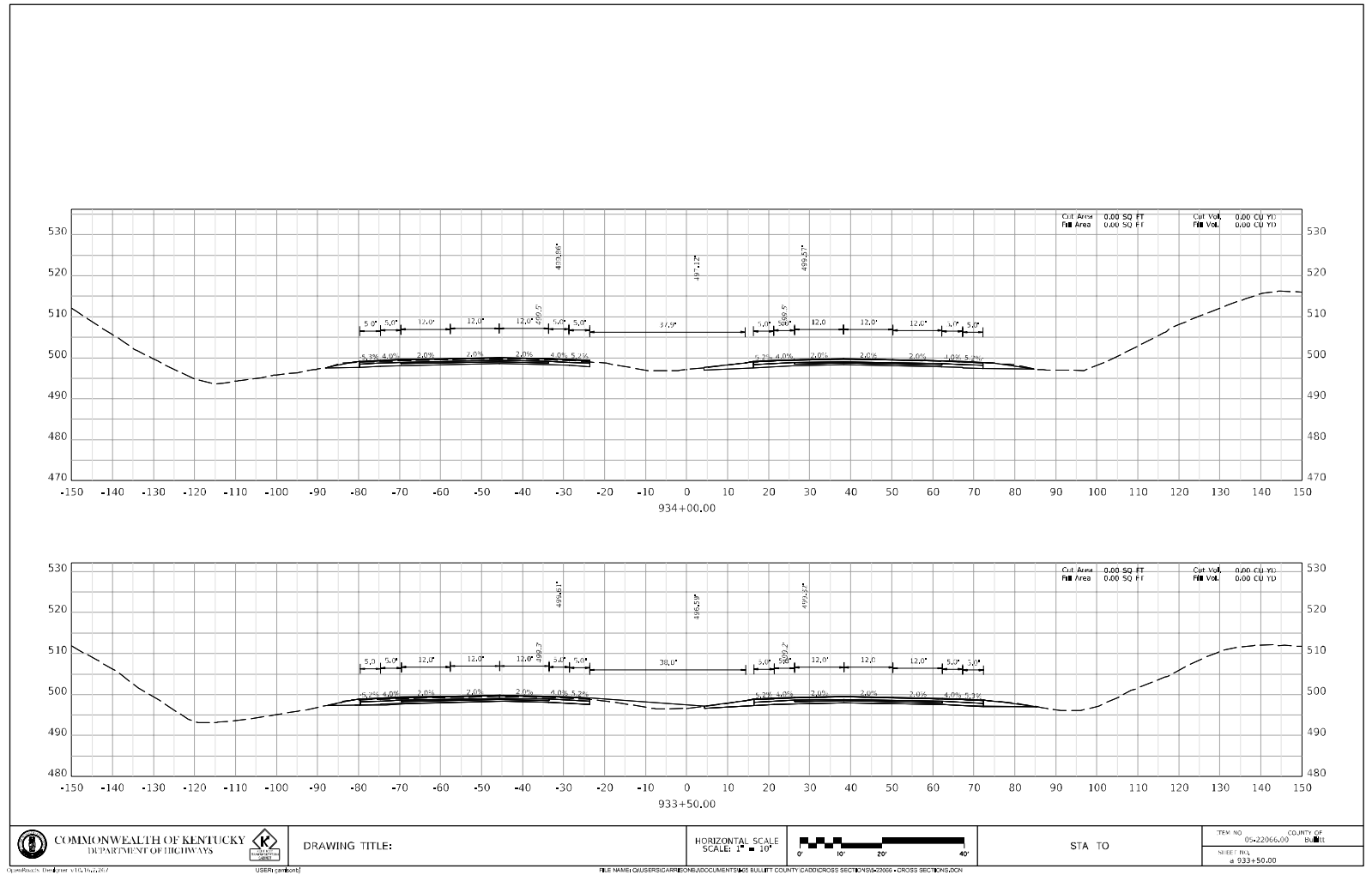
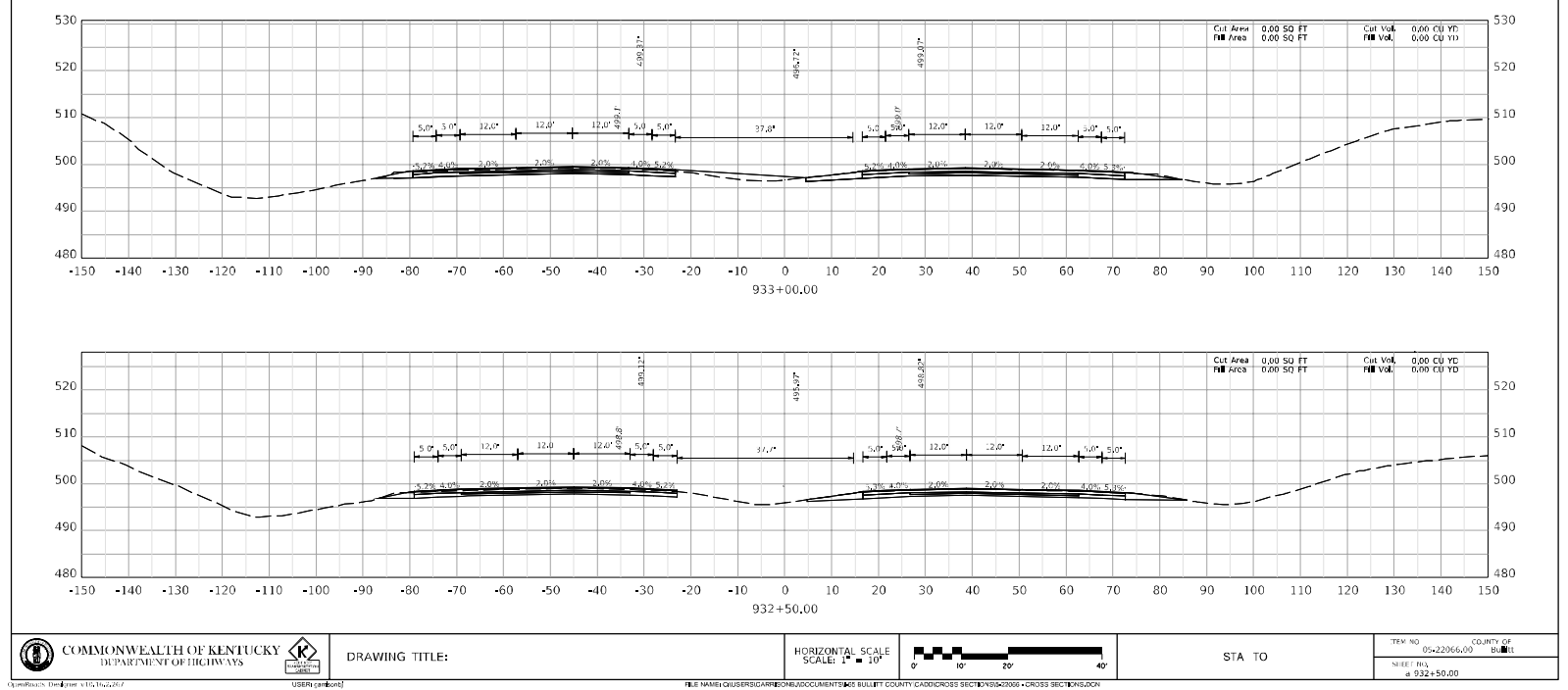
<b>COMMONWEALTH OF KENTUCKY</b> DEPARTMENT OF HIGHWAYS	 KDOT	<b>DRAWING TITLE:</b>	<b>HORIZONTAL SCALE</b> SCALE: 1" = 40'	 0' 10' 20' 40'	<b>STA TO</b>	TRM NO. COUNTY OF 05+22066.00 BUELL
						SHEET NO. a 925+00.00

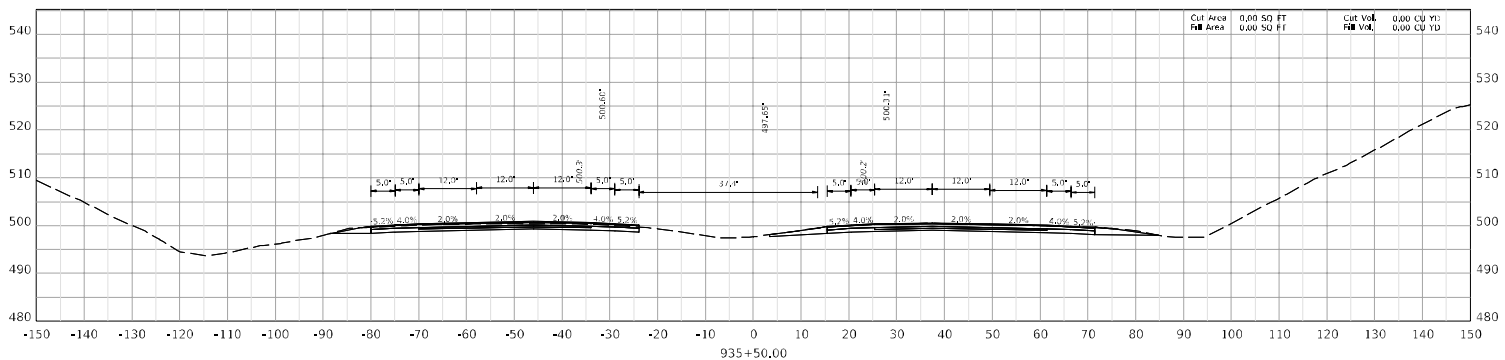
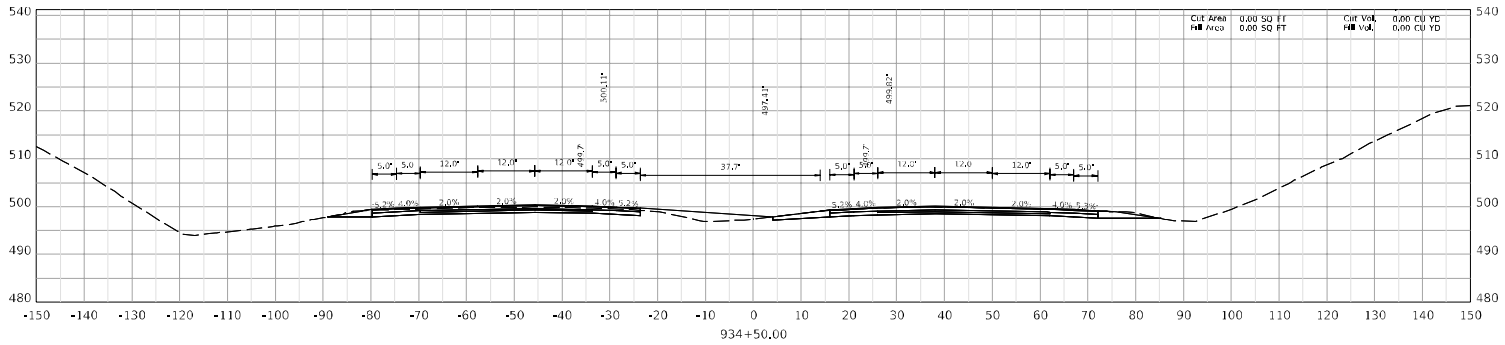


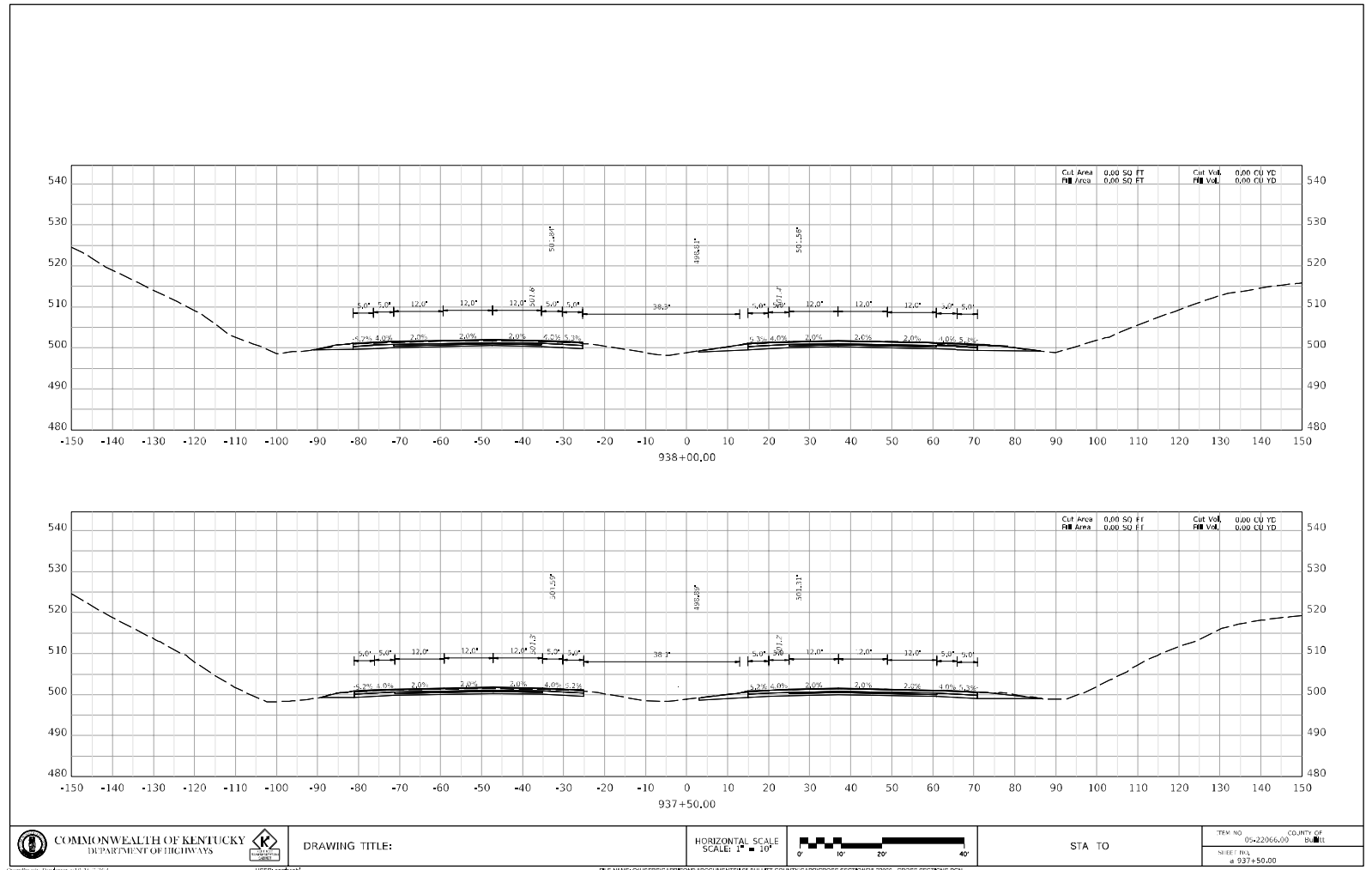
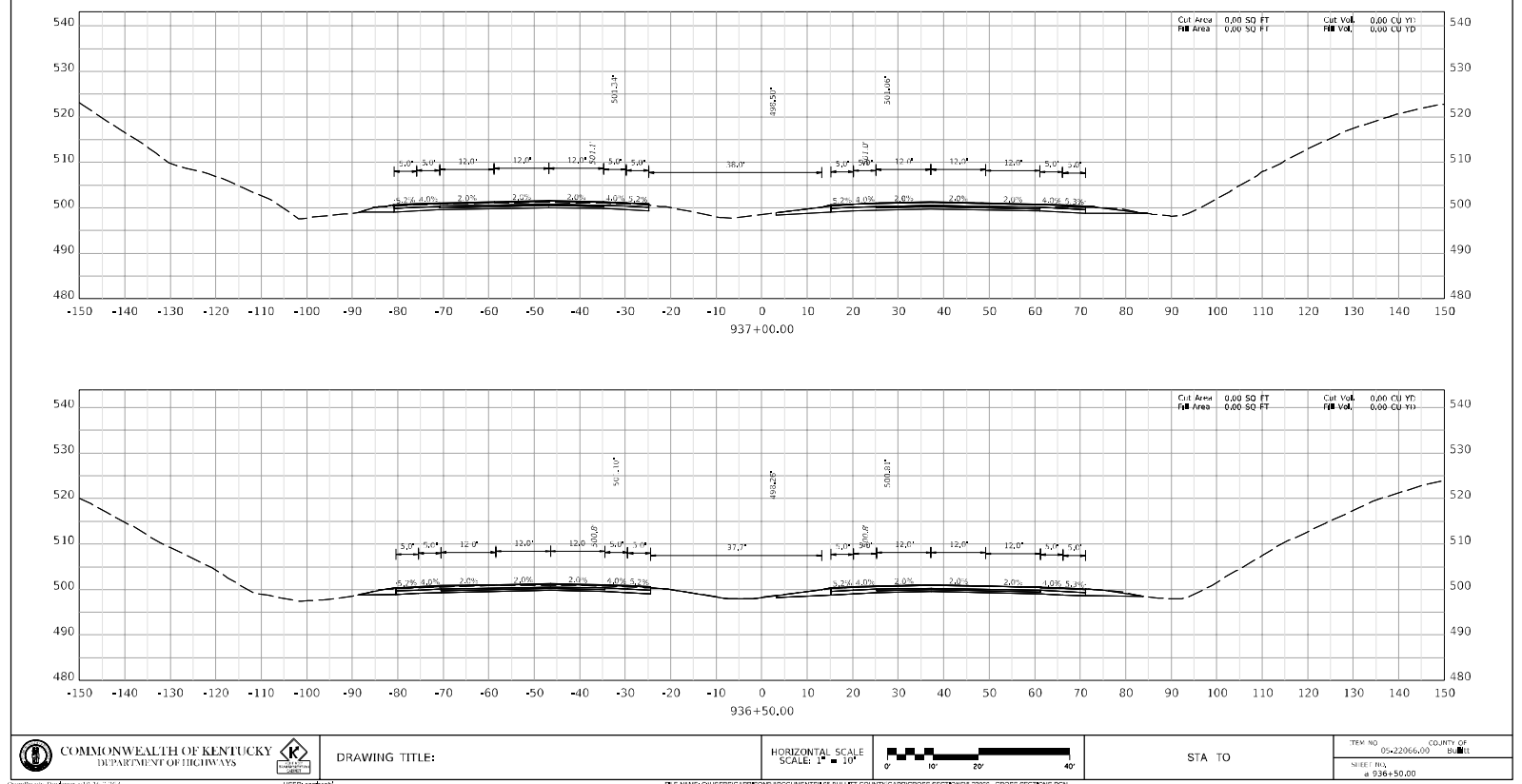




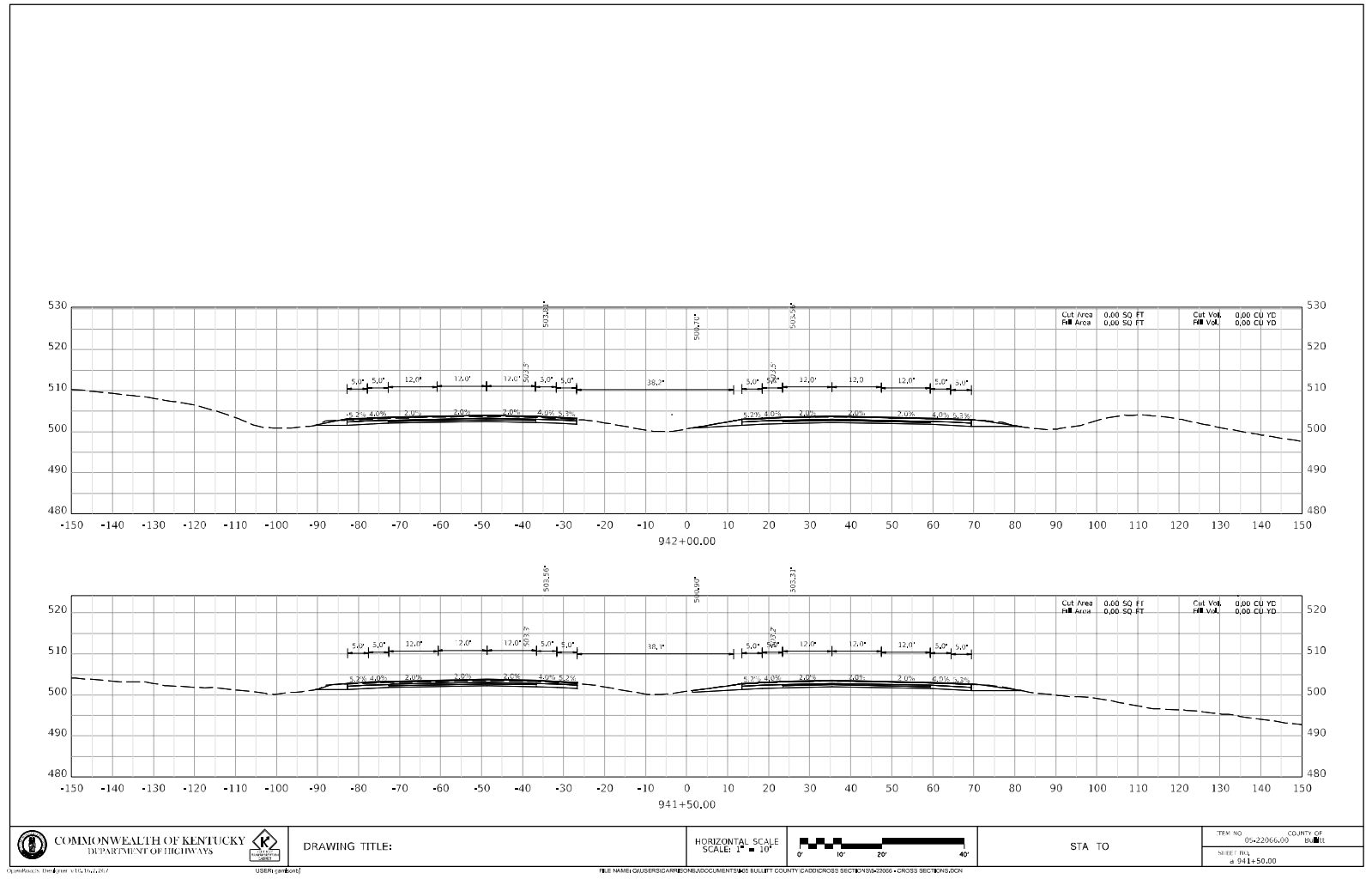
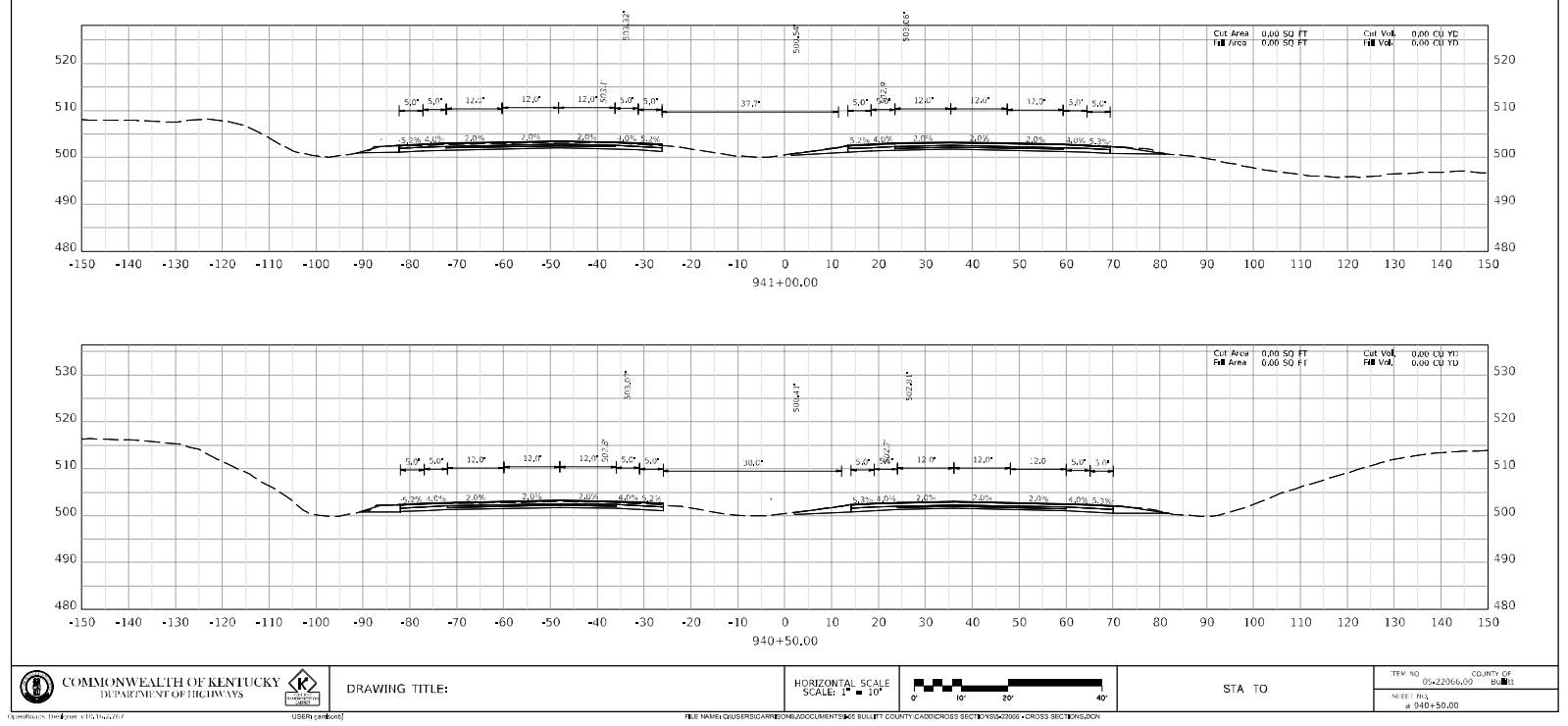




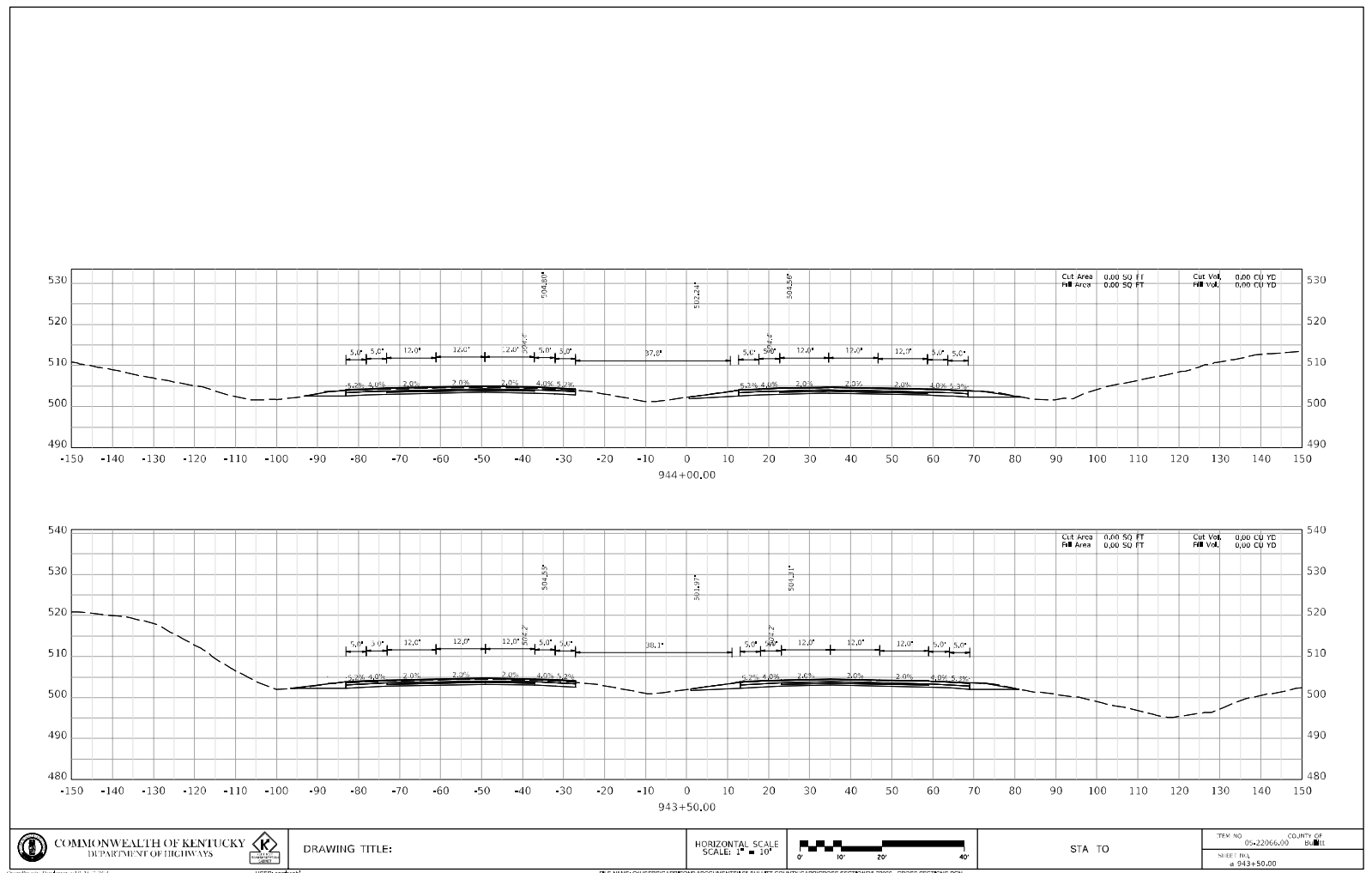
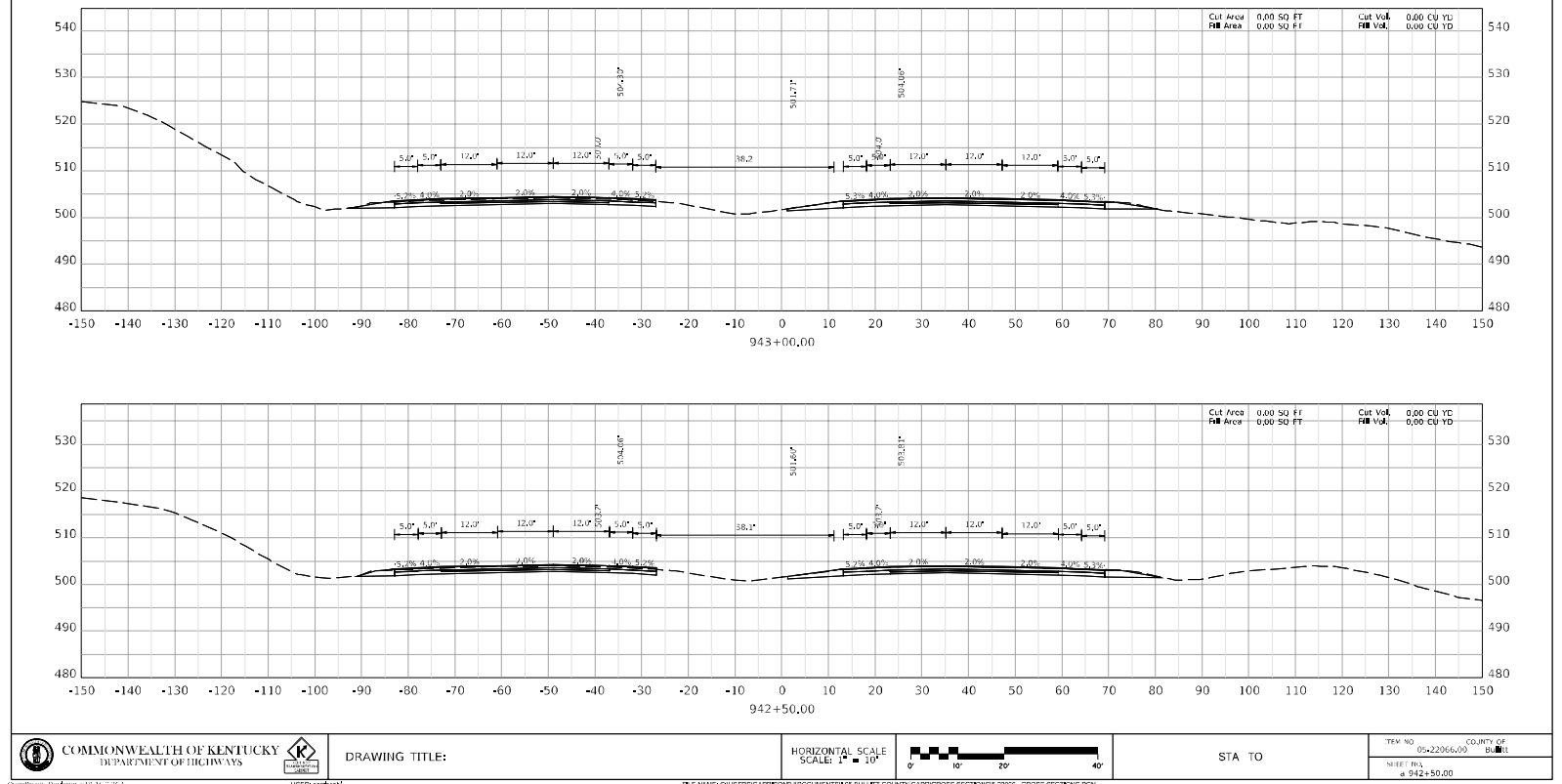




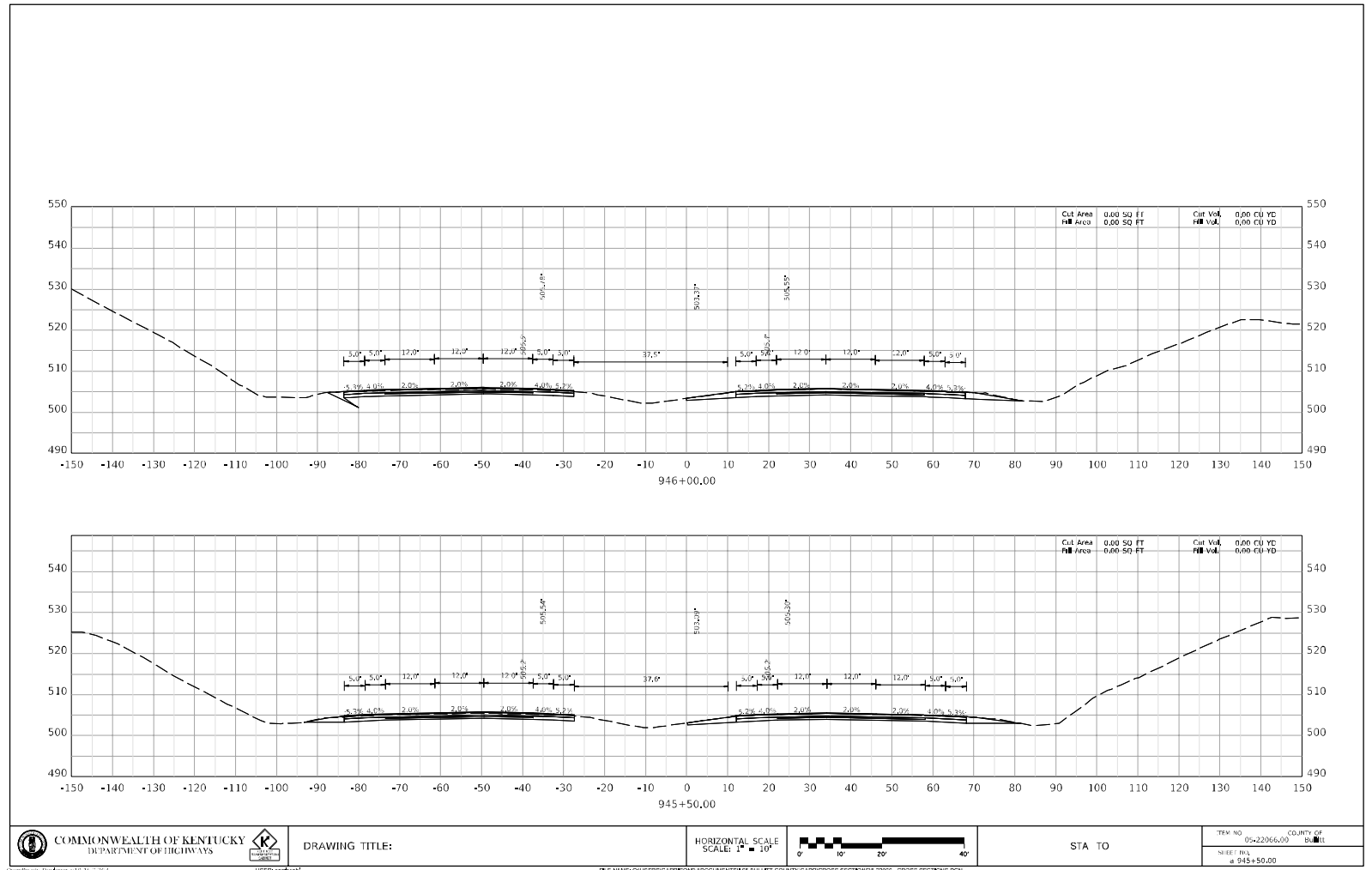
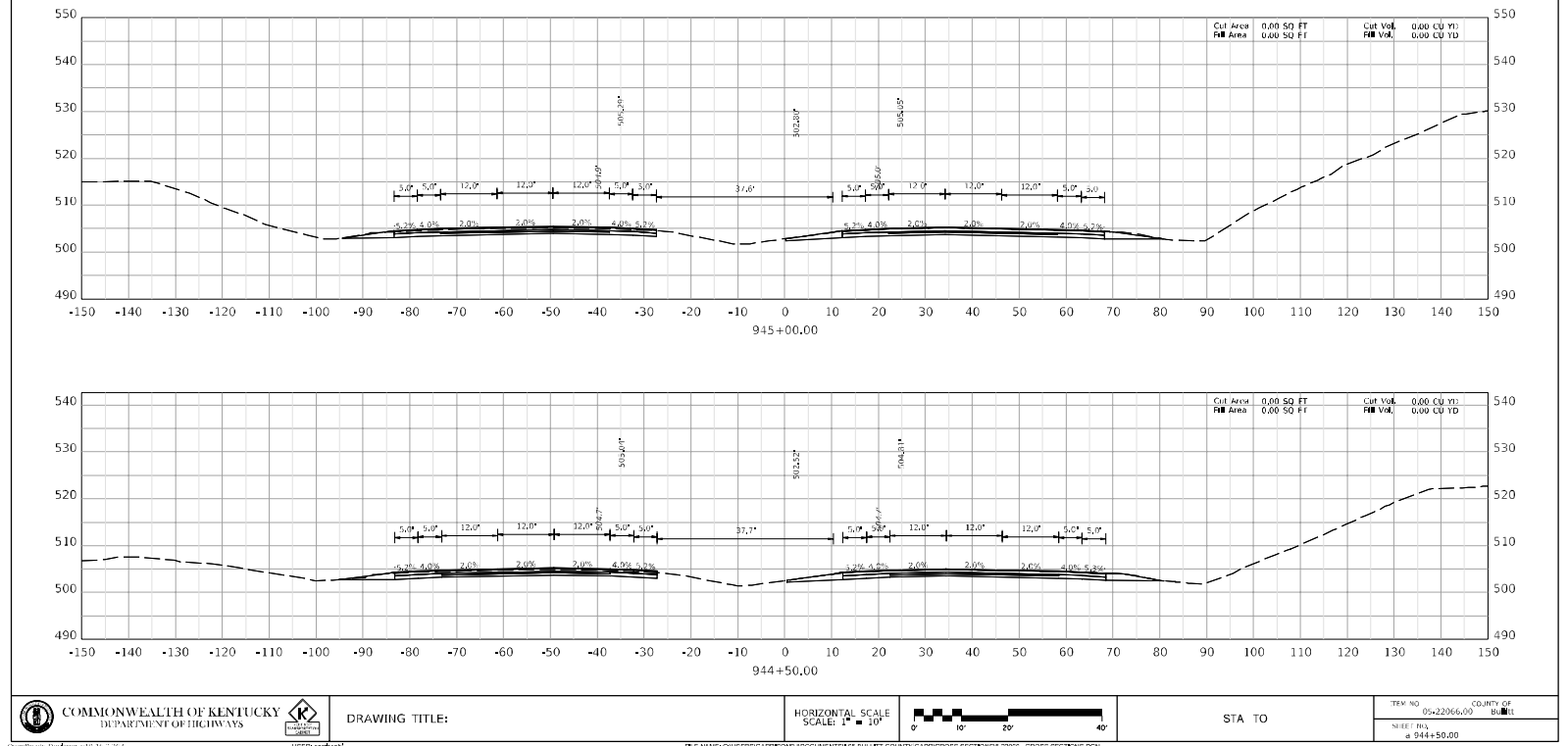




BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



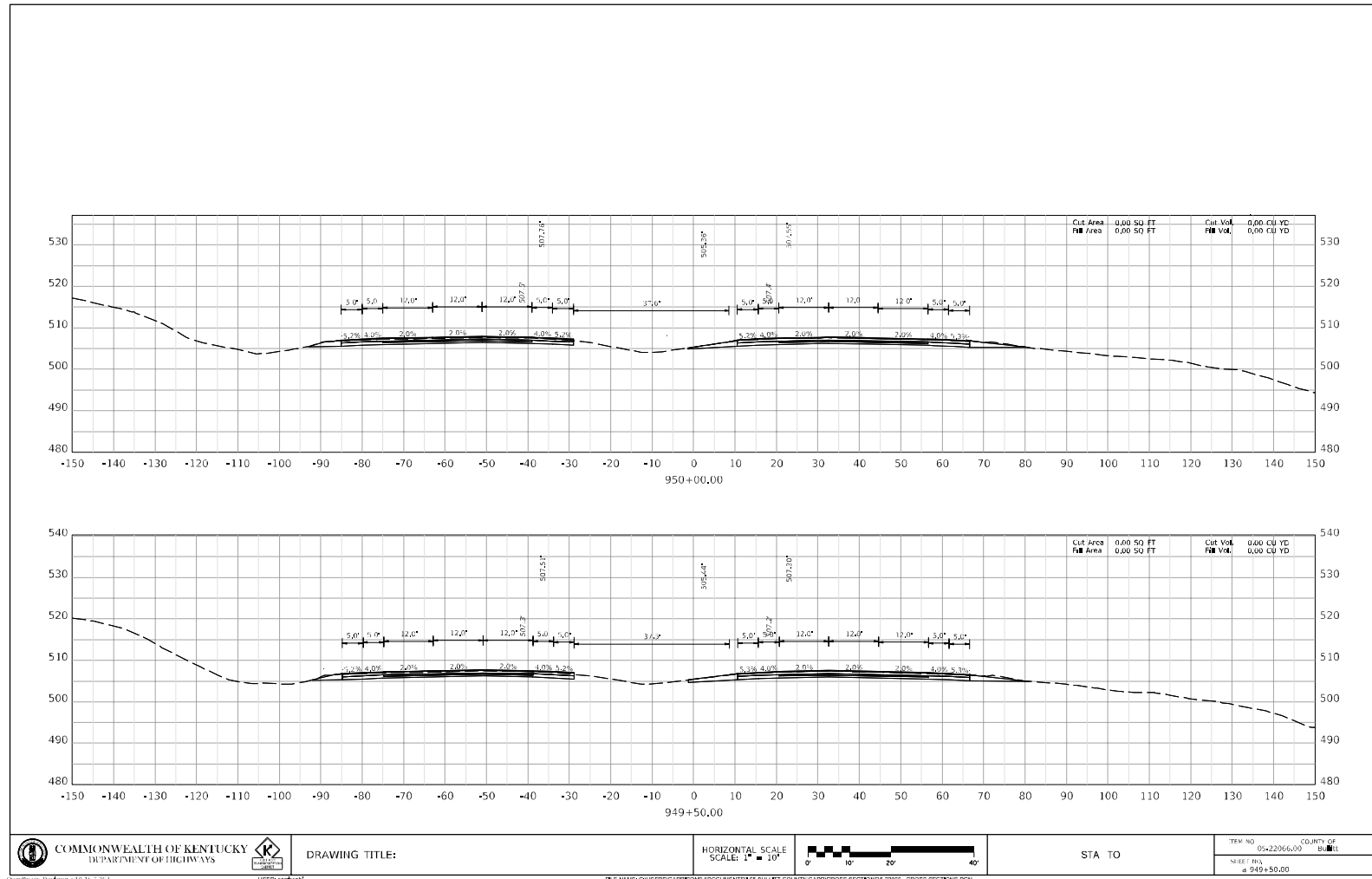
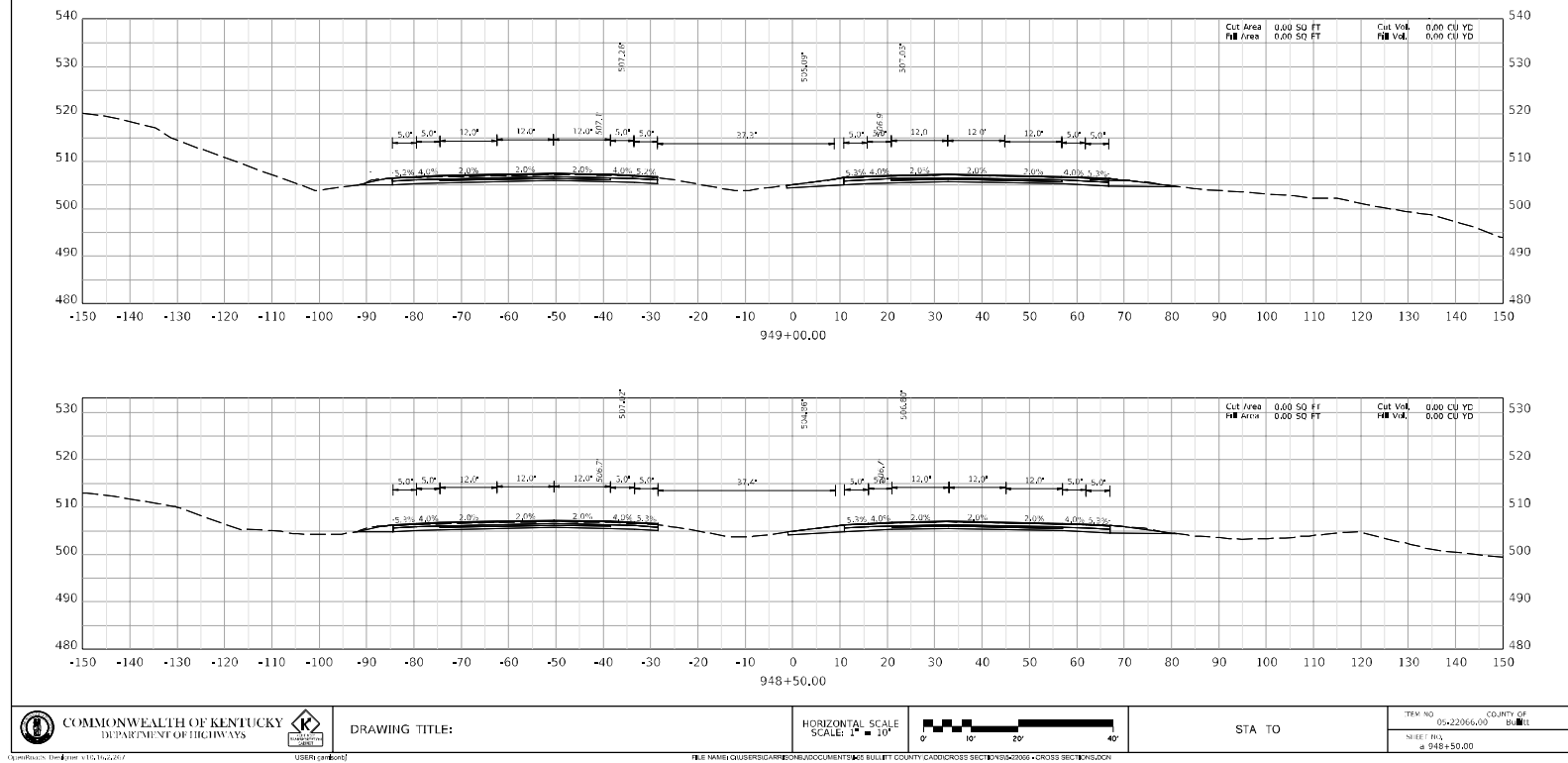
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





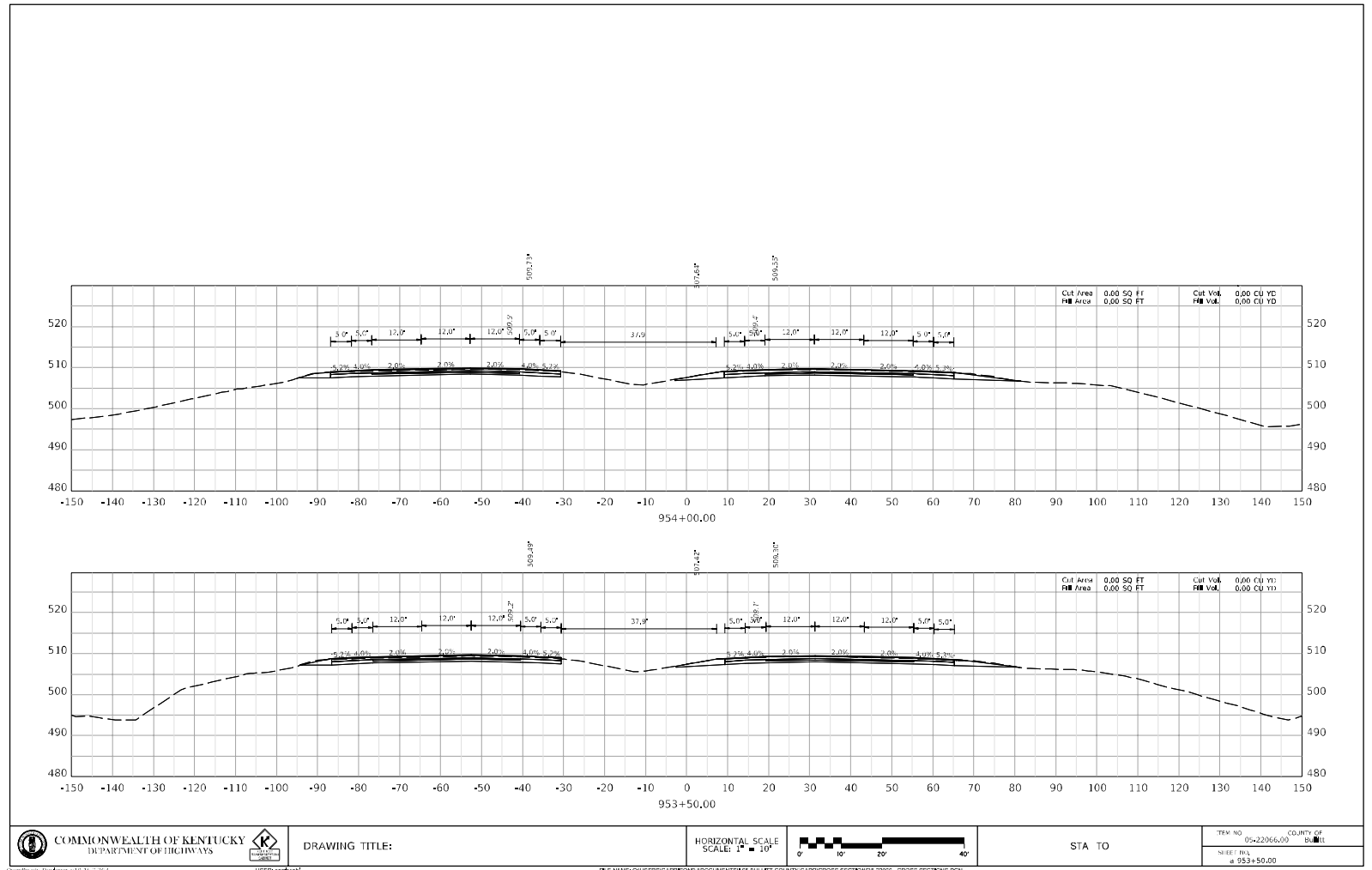
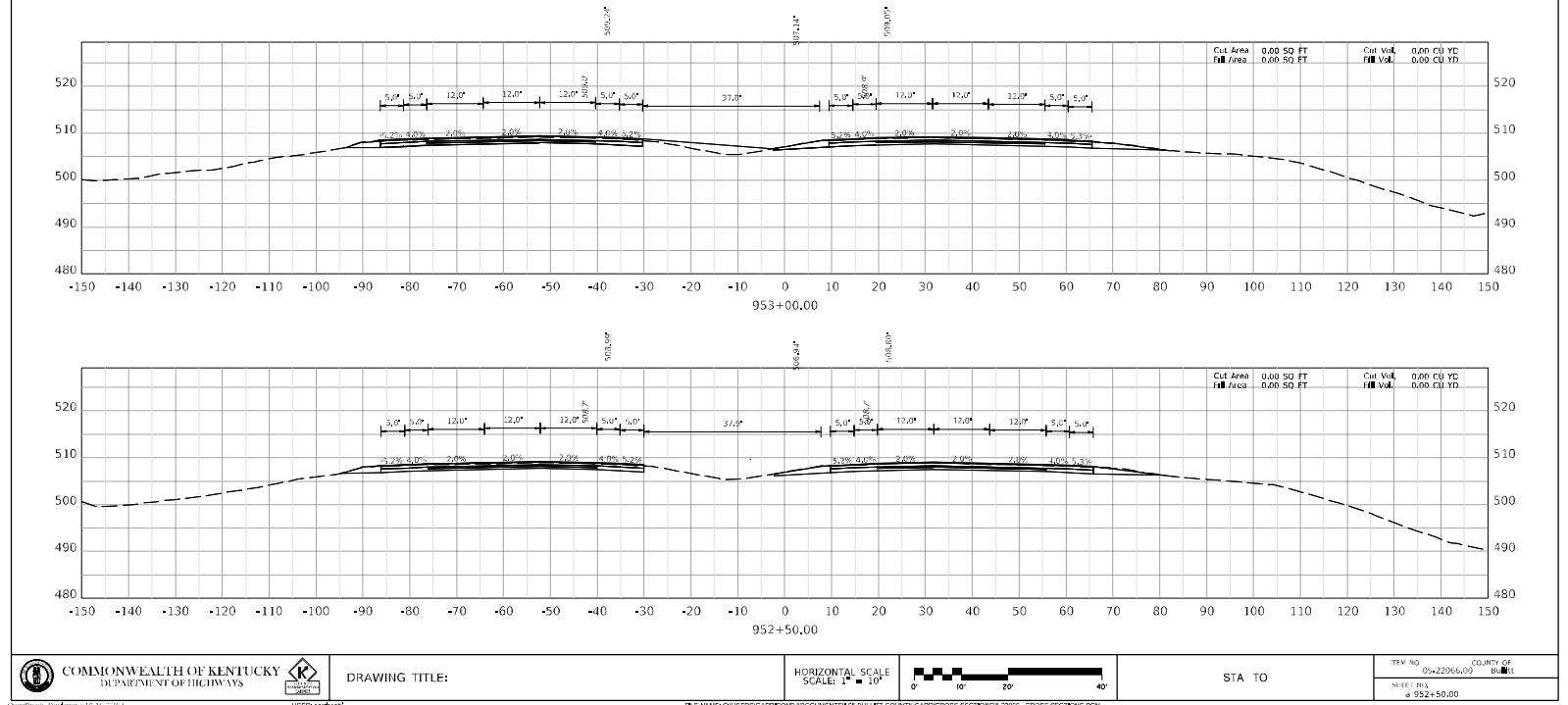


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



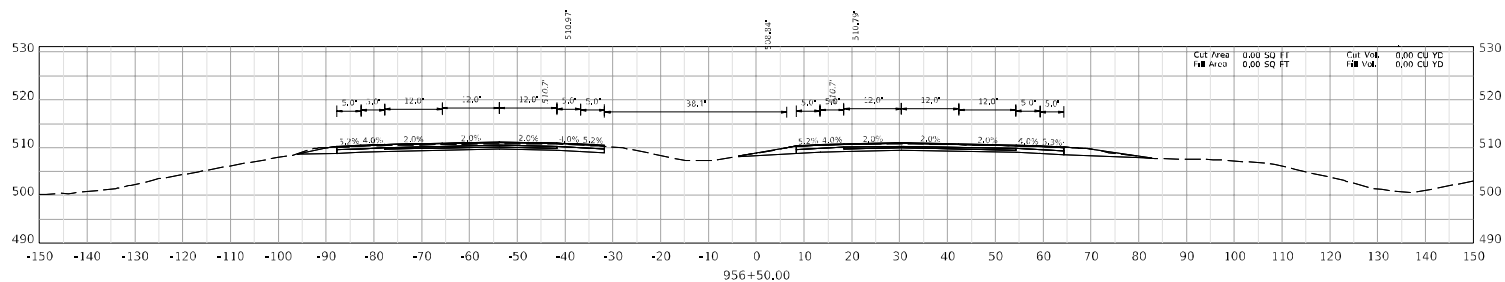
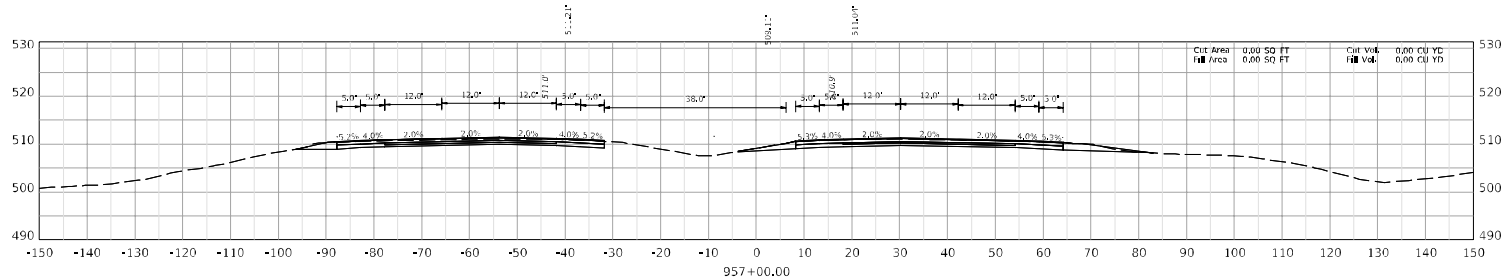
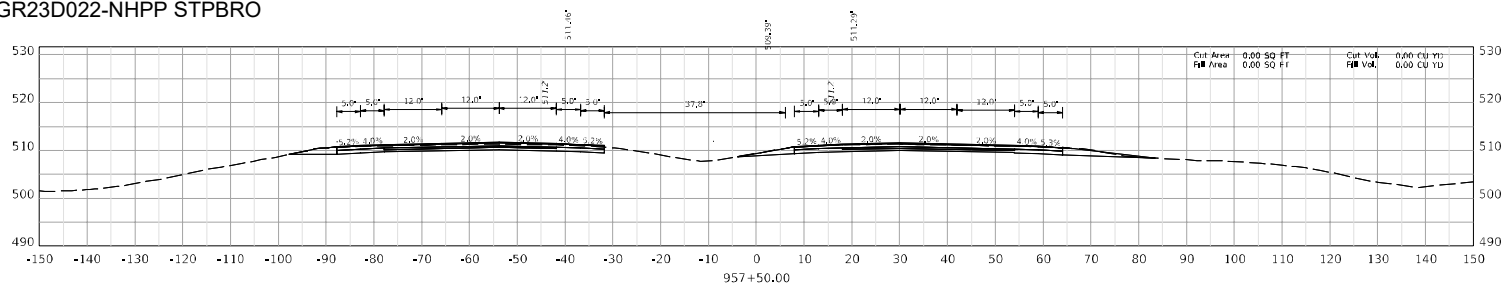


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

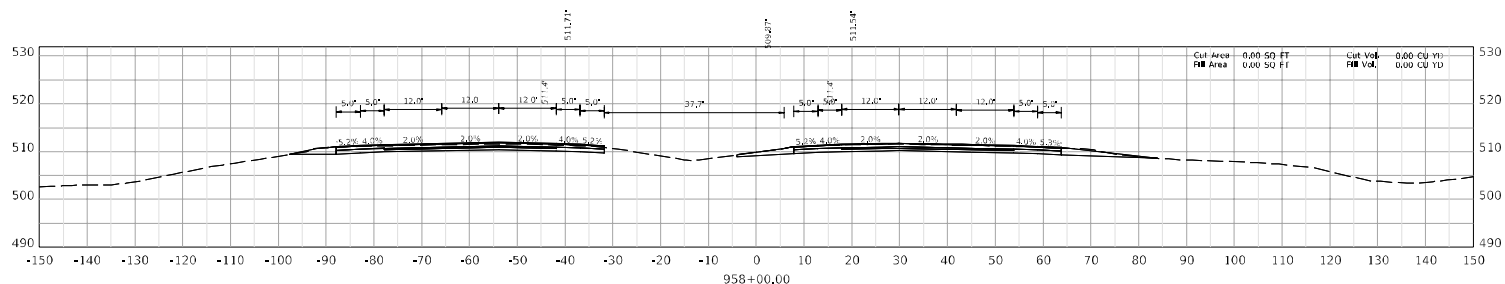
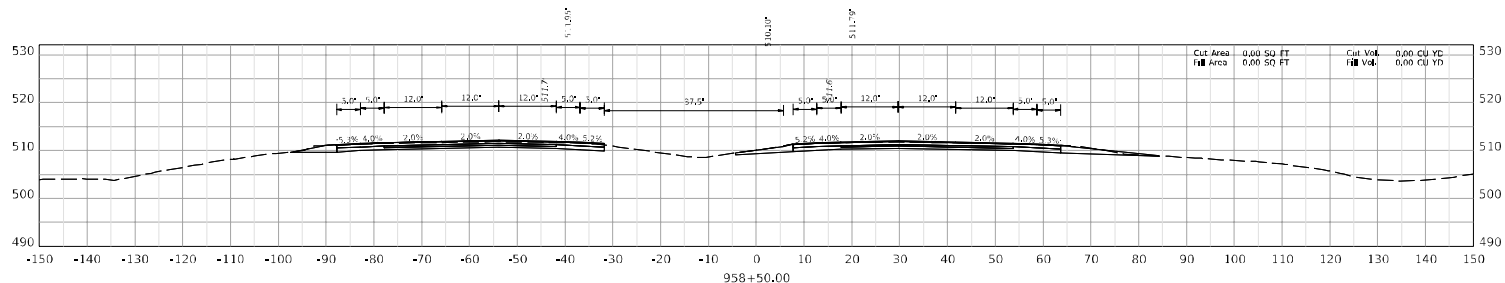
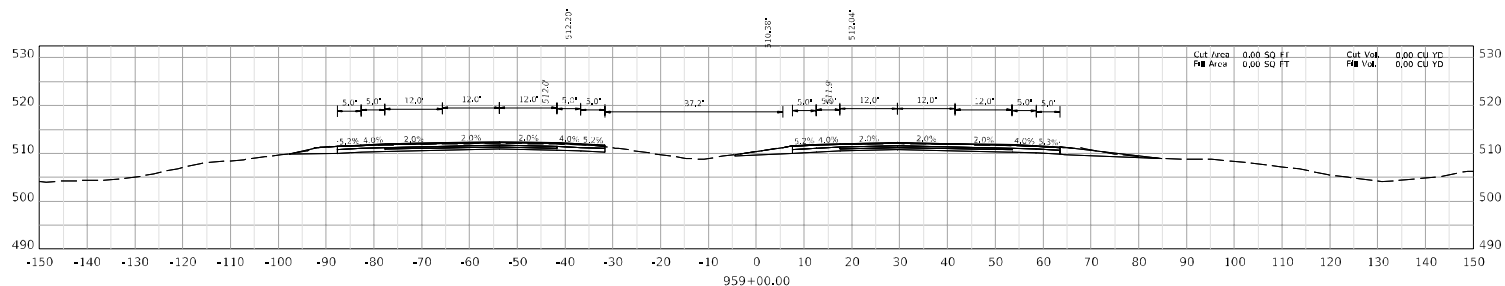


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BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

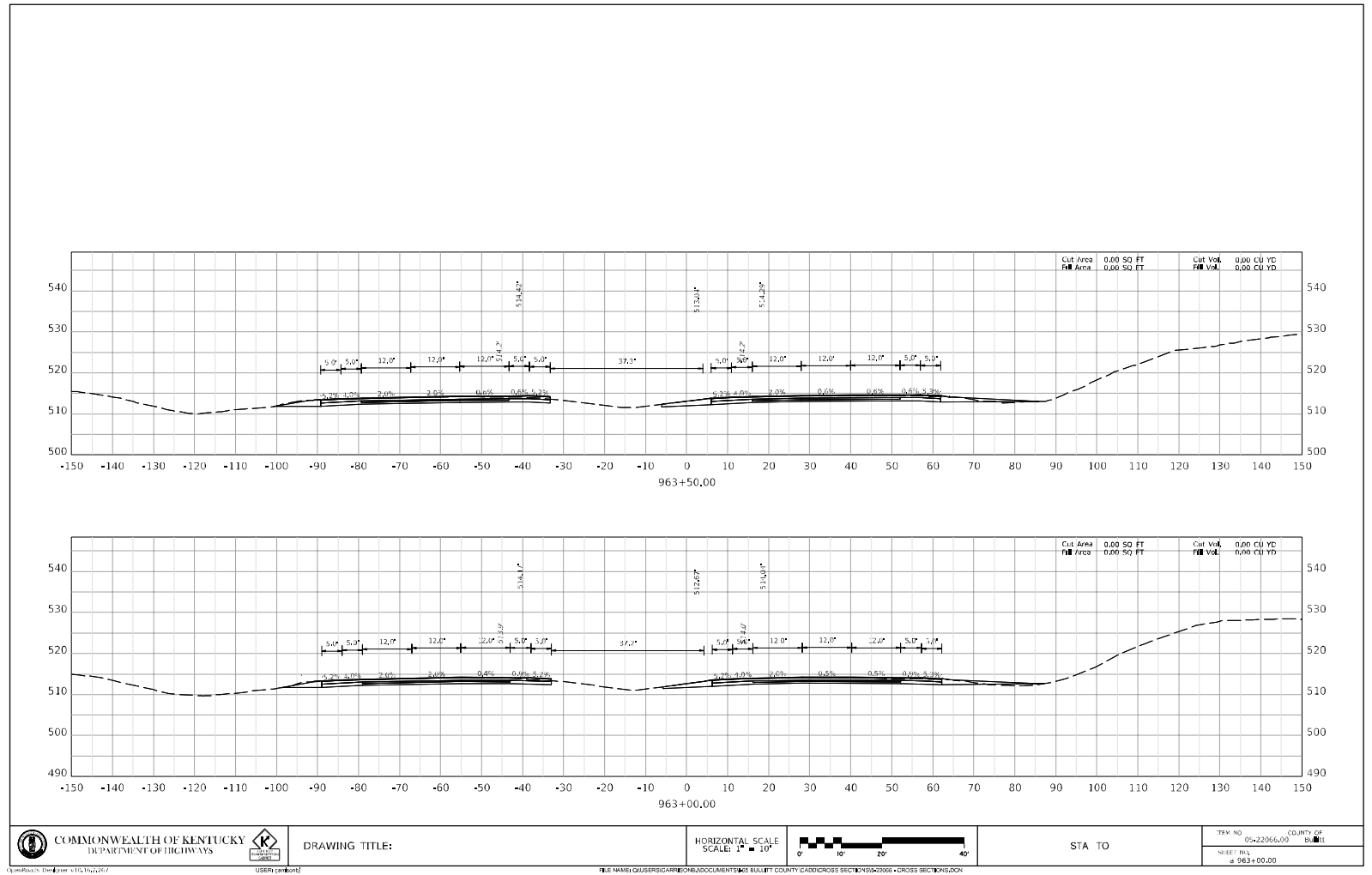
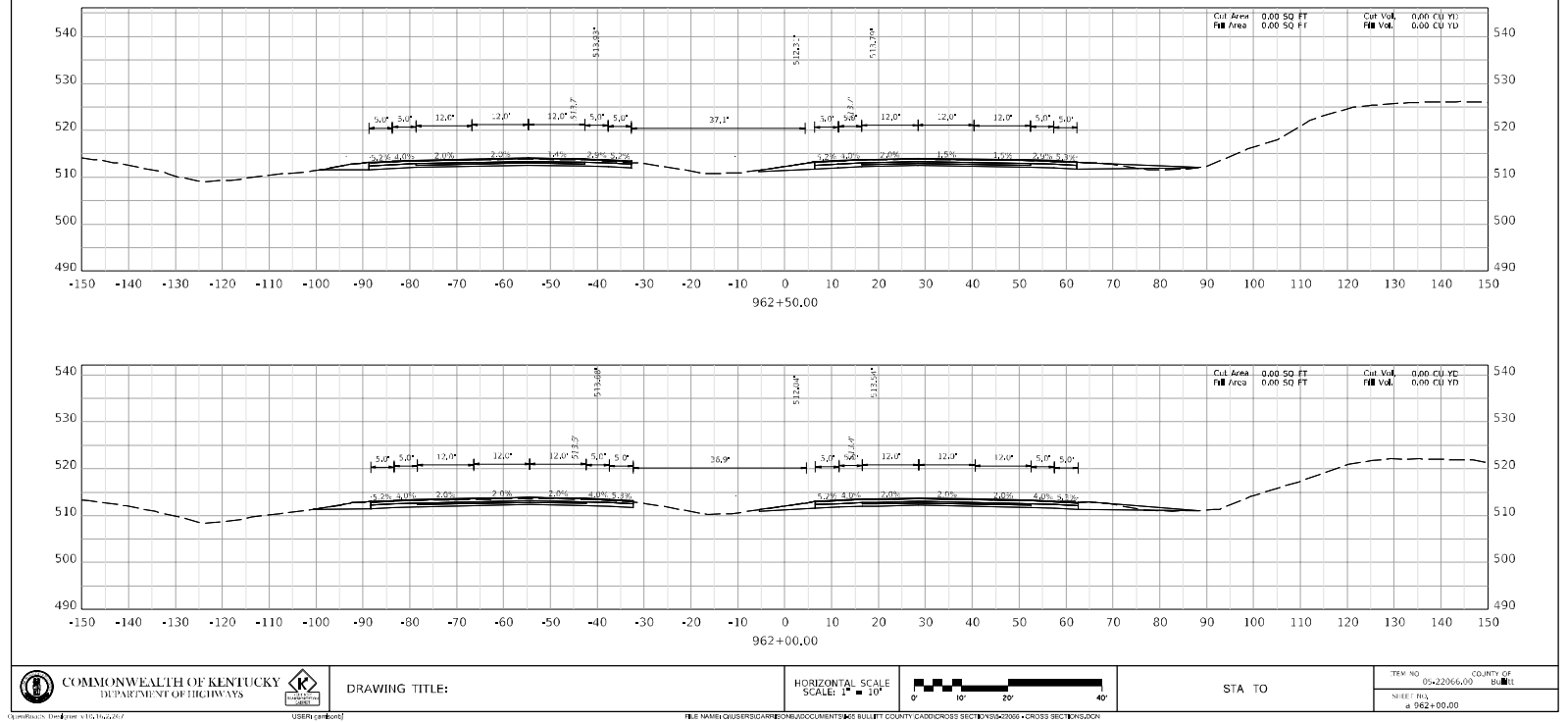


	DRAWING TITLE:	HORIZONTAL SCALE: 1" = 10'		STA TO	TRM NO	COUNTY OF
					05+22066.00	BULLITT
					SHEET NO.	
					956+50.00	

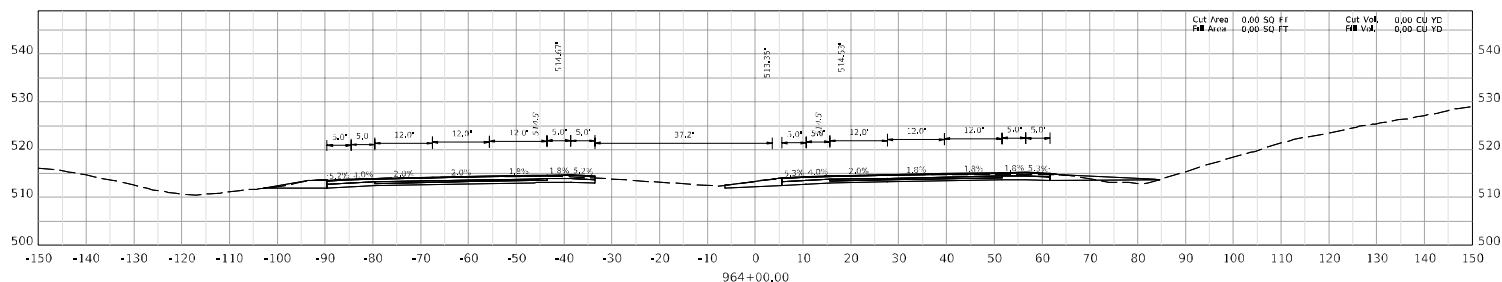
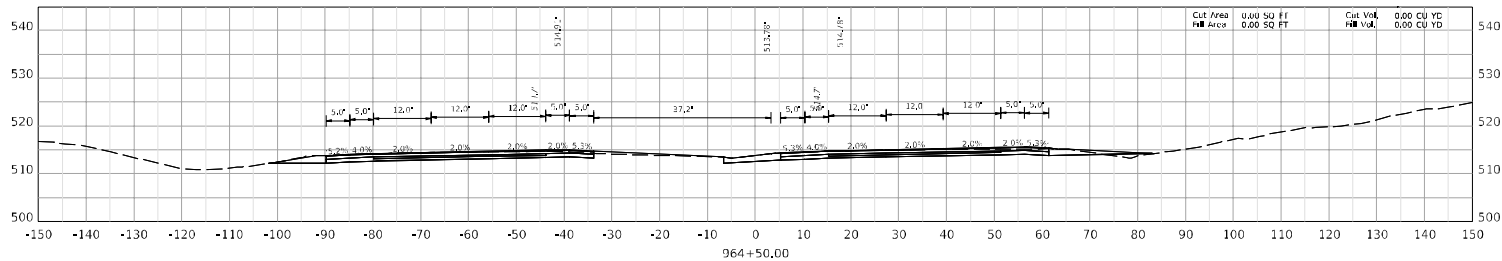


	DRAWING TITLE:	HORIZONTAL SCALE: 1" = 10'		STA TO	TRM NO	COUNTY OF
					05+22066.00	BULLITT
					SHEET NO.	
					958+00.00	





BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

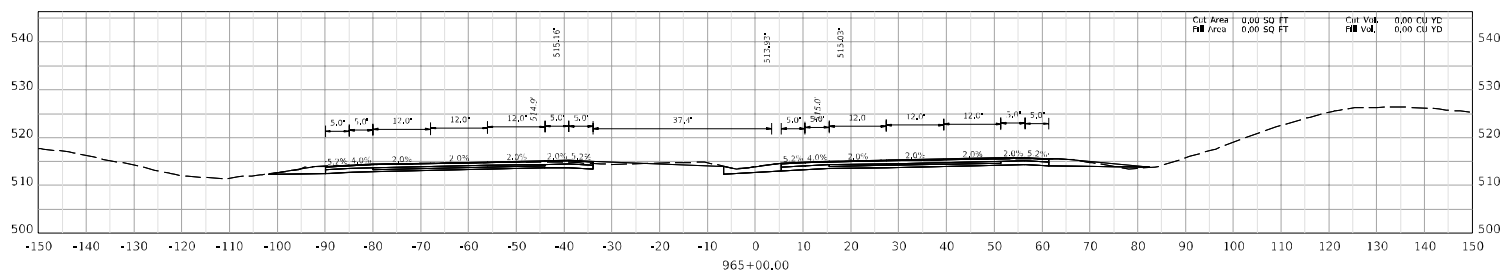
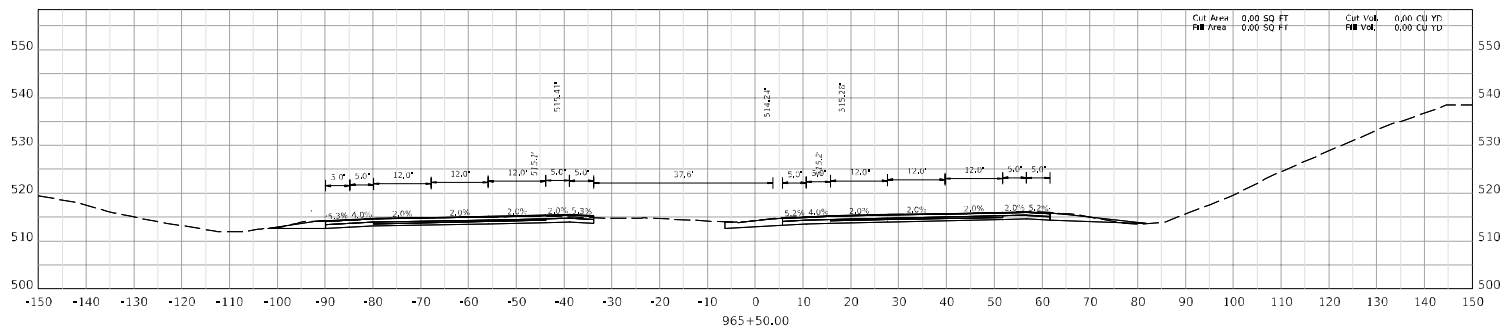
HORIZONTAL SCALE  
SCALE: 1" = 10'



0' 10' 20' 40'

STA TO

TRM NO: 05-22066-00  
SHEET NO: 166  
COUNTY OF: BULLITT





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



0' 10' 20' 40'

STA TO

TRM NO: 05-22066-00  
SHEET NO: 166  
COUNTY OF: BULLITT

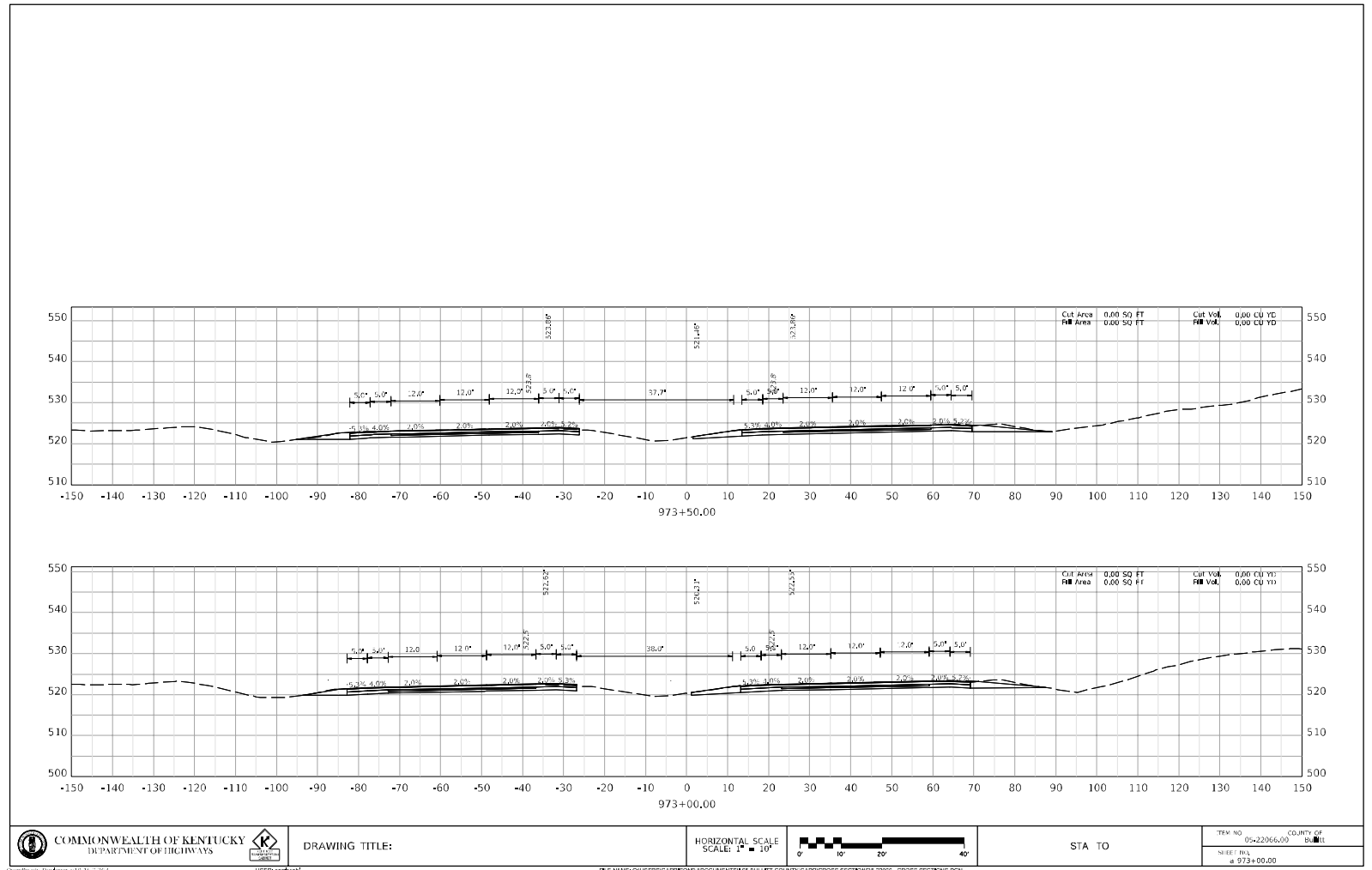
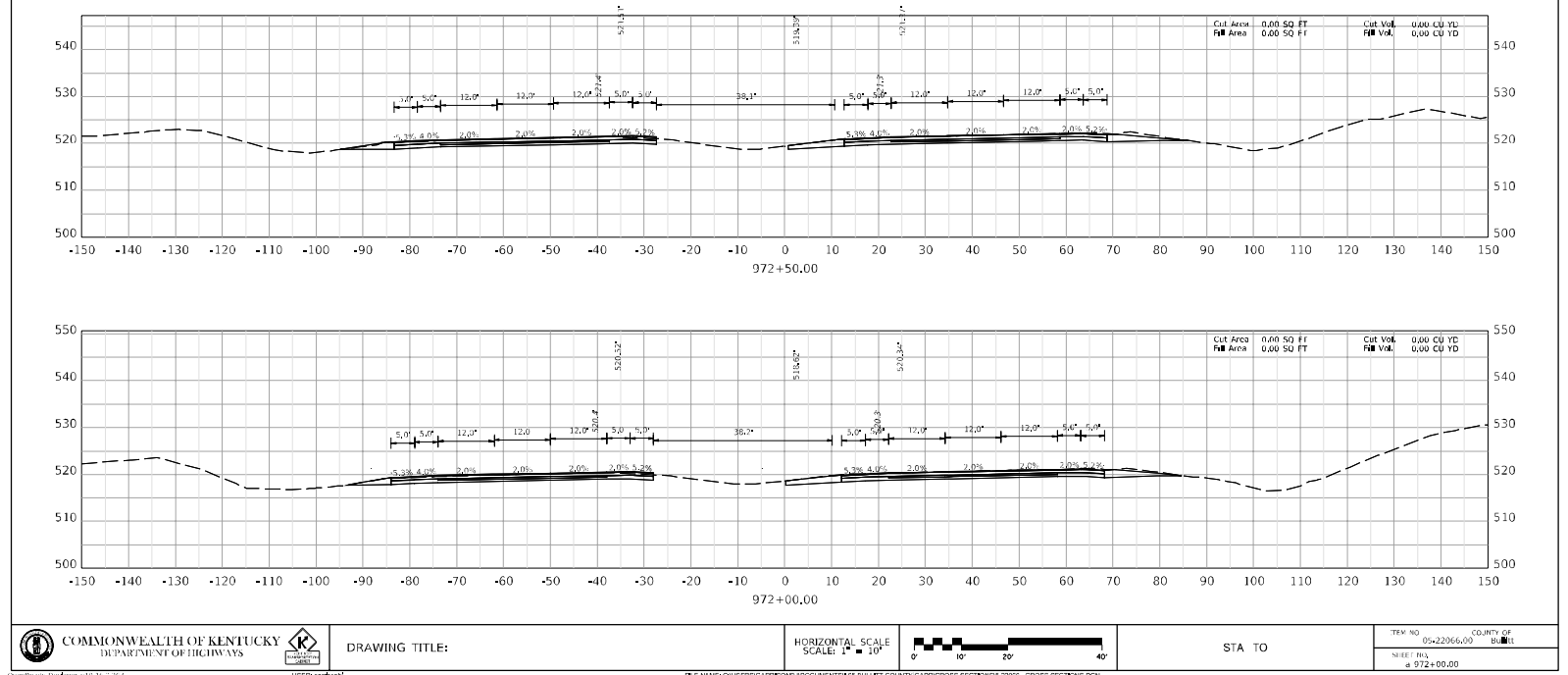


ITEM NO 05.22066.00 COUNTY OF Buell  
STREET NO. 4 967+00.00

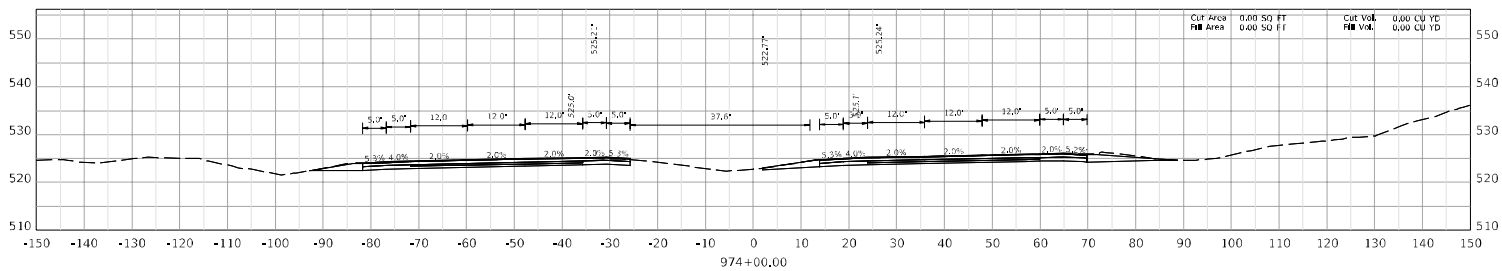
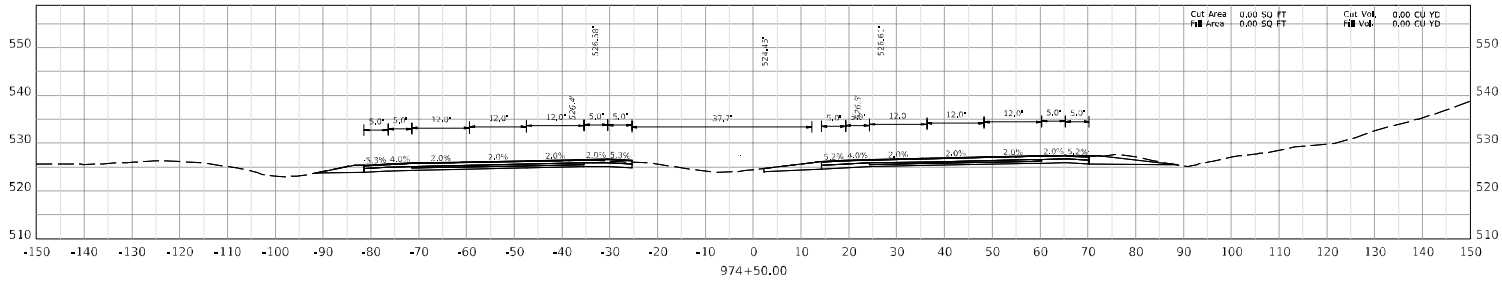
	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS		DRAWING TITLE:	HORIZONTAL SCALE SCALE: 1" = 10'		STA TO	TEN NO. 05-22066.00	COUNTY OF BULLITT
<small>(Contractor: Hardaway &amp; Co., Inc./d/h/c)</small> <small>(Licensee's name)</small> FILE NAME C:\USERS\GABRIEL\WORKSPACE\BULLITT COUNTY CAD\ROADS SECTION\SSA\SSA.DWG x DROPS SECTION\DRAWING								

<b>COMMONWEALTH OF KENTUCKY</b> DEPARTMENT OF HIGHWAYS	 <small>USER CONTROL</small>	DRAWING TITLE:	HORIZONTAL SCALE SCALE: 1" = 100'	 0 10 20 30 40	STA TO	TYP NO. 05+22066.00	COUNTY OF BULLITT
						SHEET NO. 971+00.00	

BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



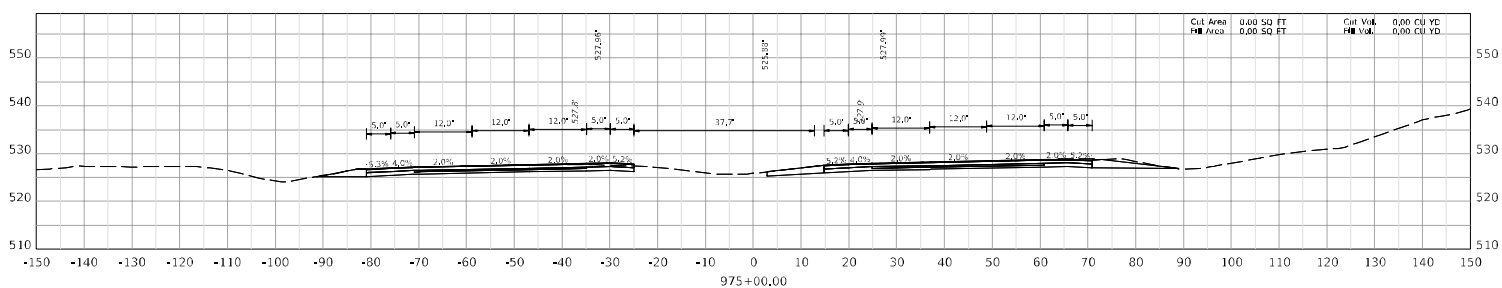
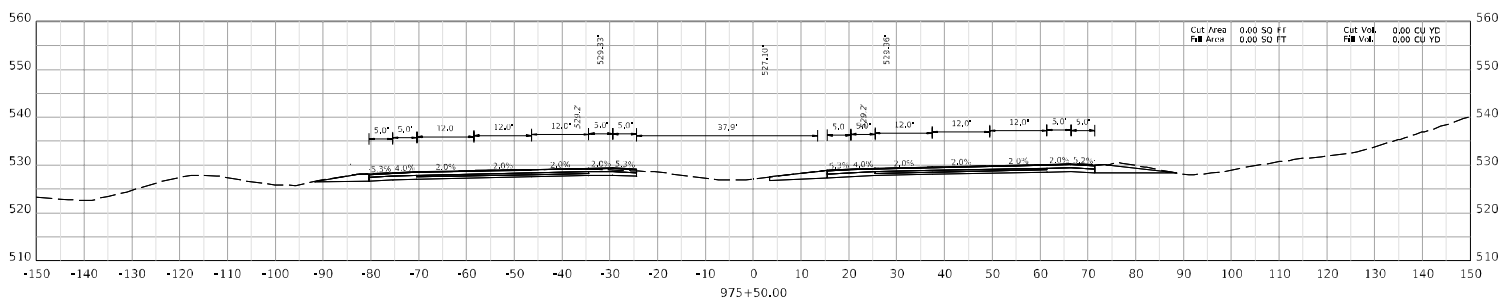
DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



STA TO

TRM NO 05-22066-00  
SHEET NO 171  
COUNTY OF BULLITT

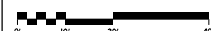


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

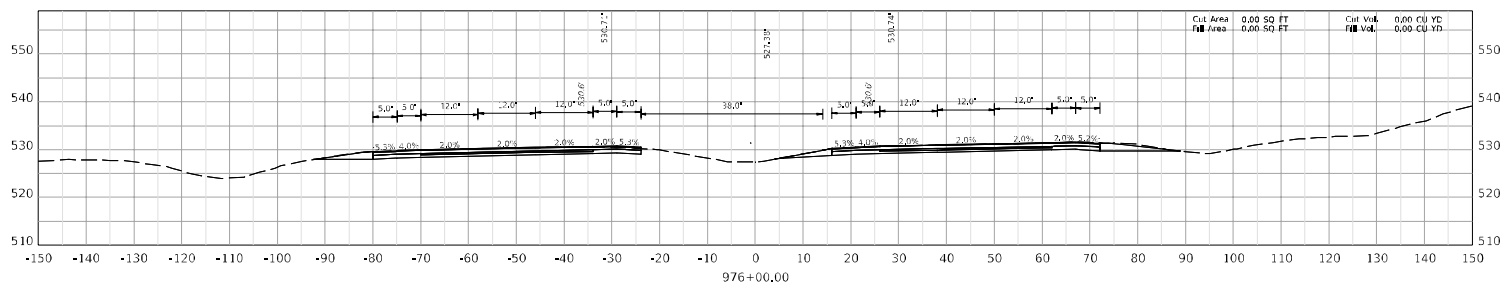
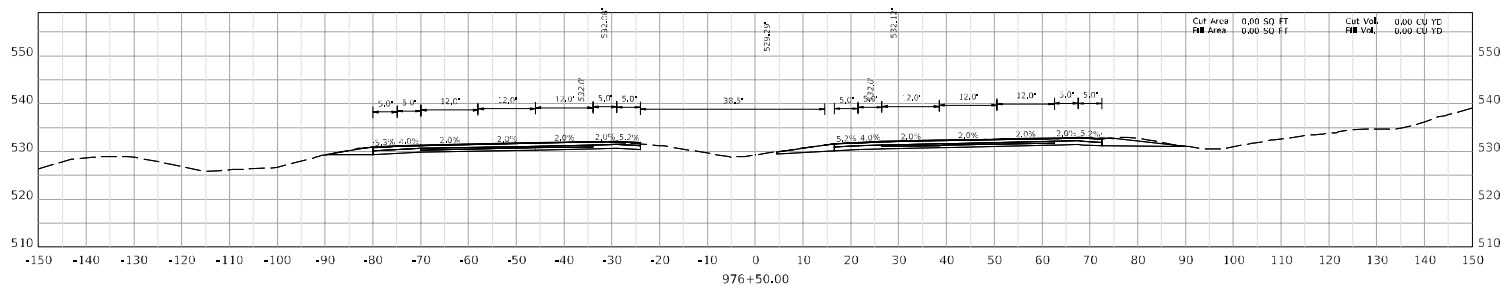
HORIZONTAL SCALE  
SCALE: 1" = 10'



STA TO

TRM NO 05-22066-00  
SHEET NO 171  
COUNTY OF BULLITT

BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

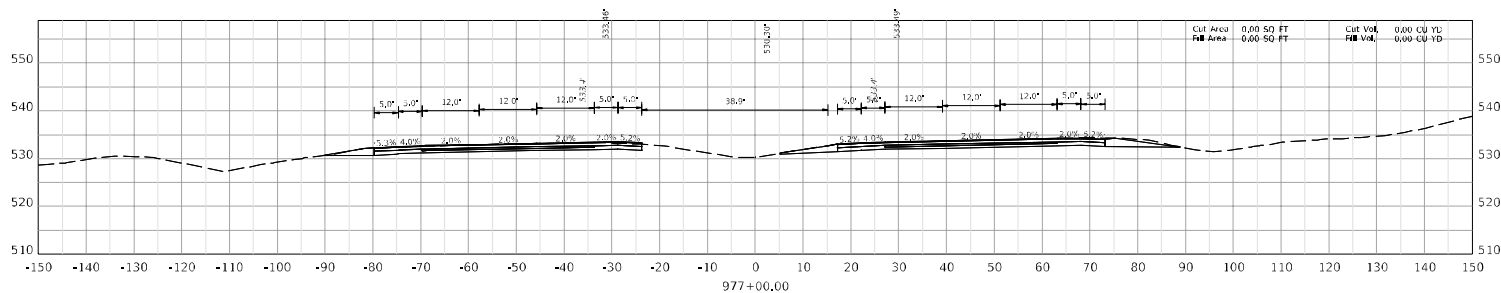
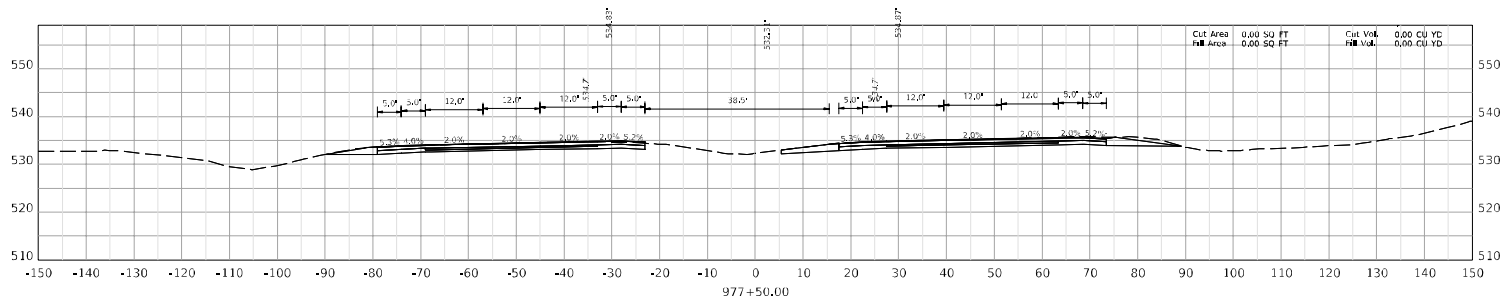
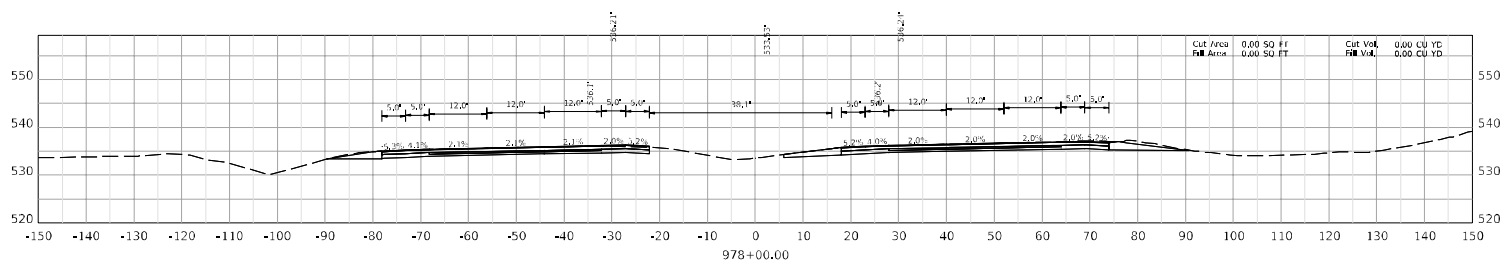
HORIZONTAL SCALE  
SCALE: 1" = 10'



0' 10' 20' 40'

STA TO

ITEM NO. 05-22066-00  
SHEET NO. 172  
COUNTY OF BULLITT





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'

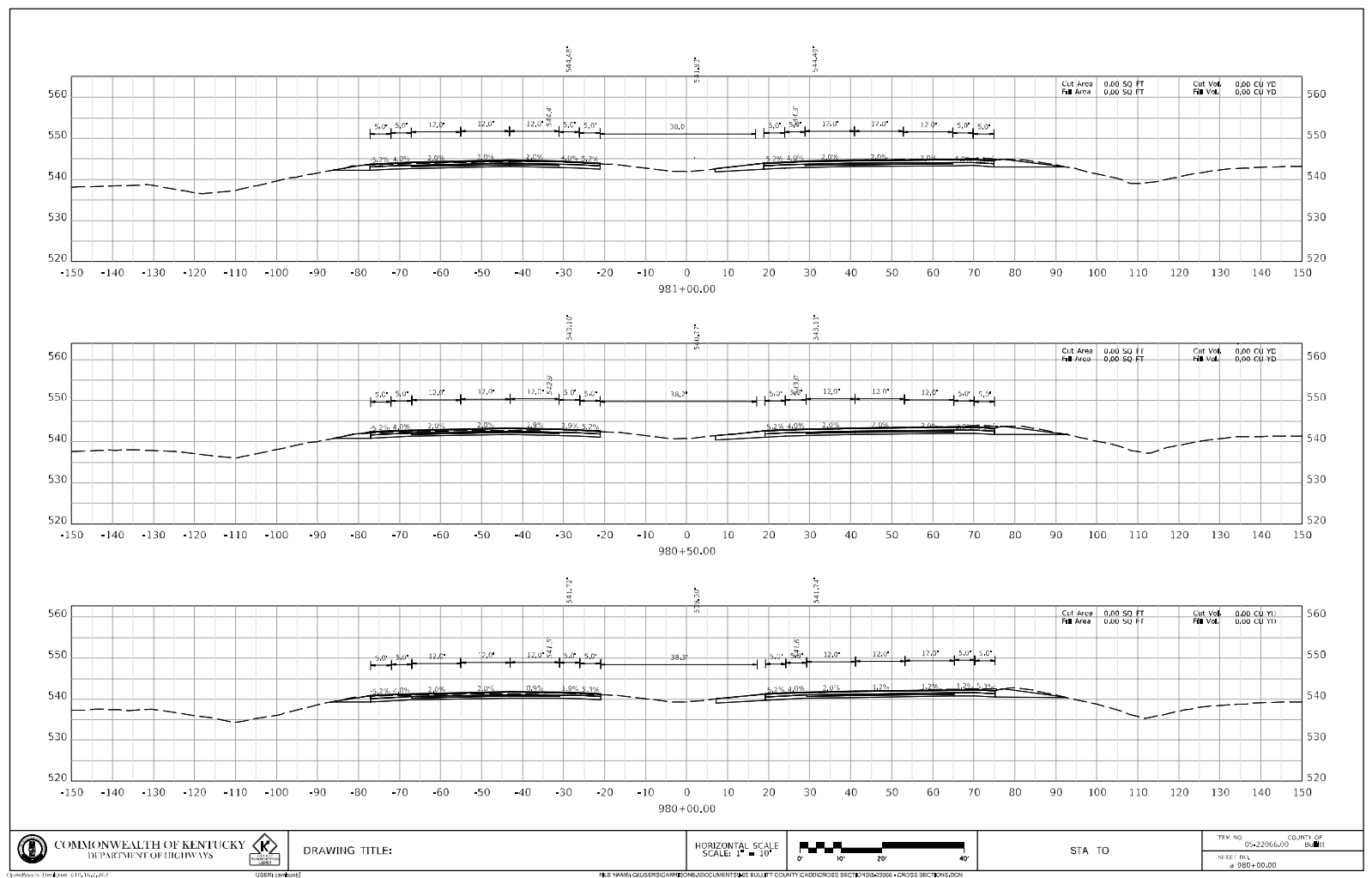
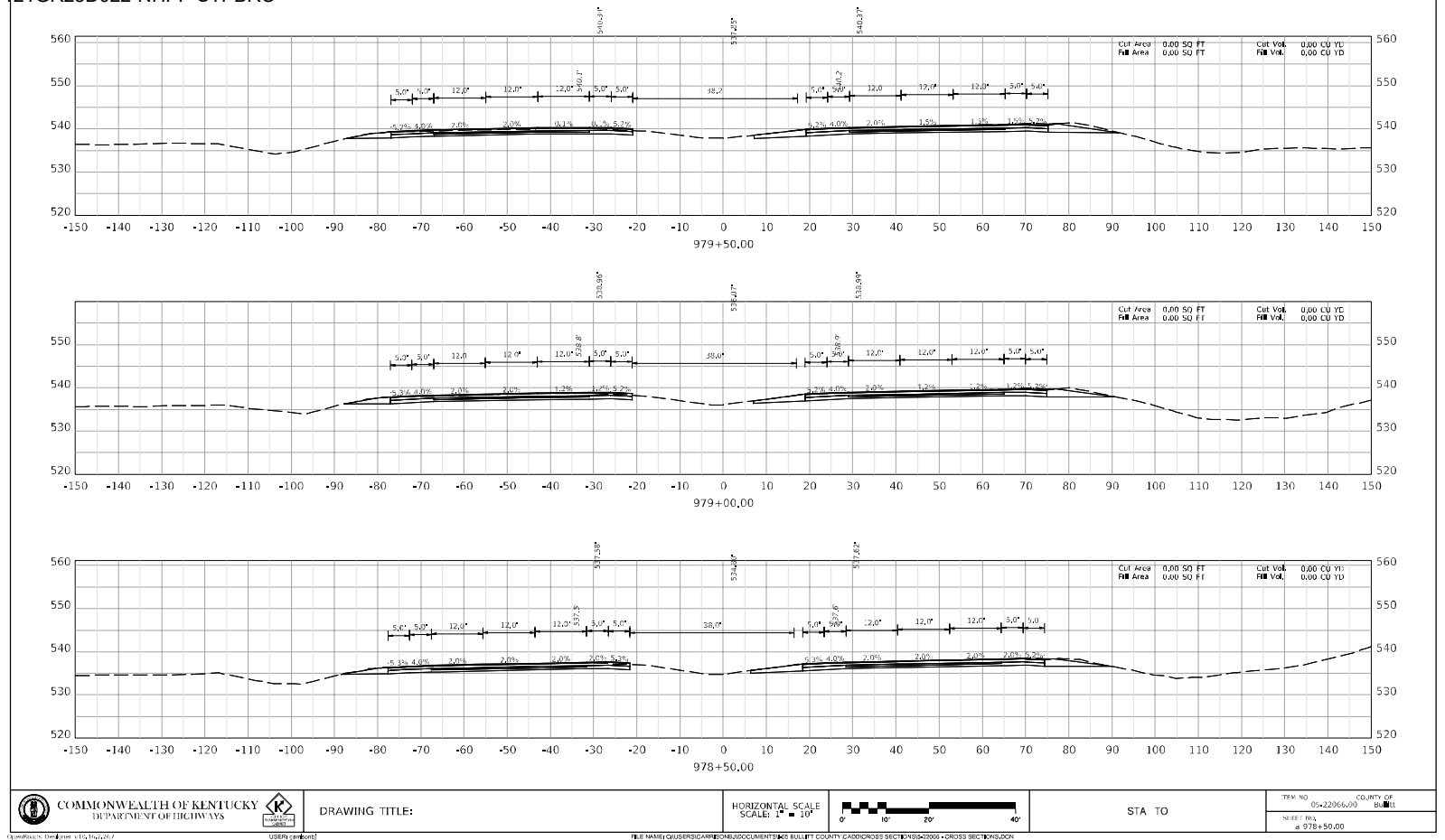


0' 10' 20' 40'

STA TO

ITEM NO. 05-22066-00  
SHEET NO. 172  
COUNTY OF BULLITT

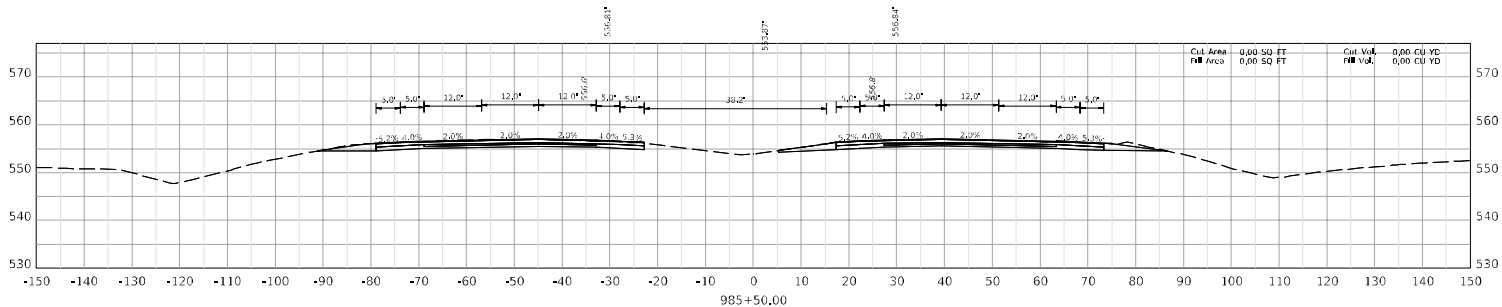
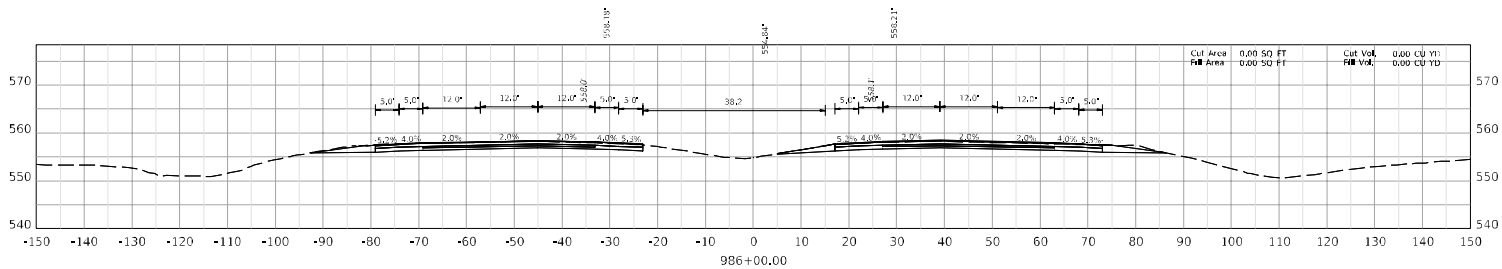
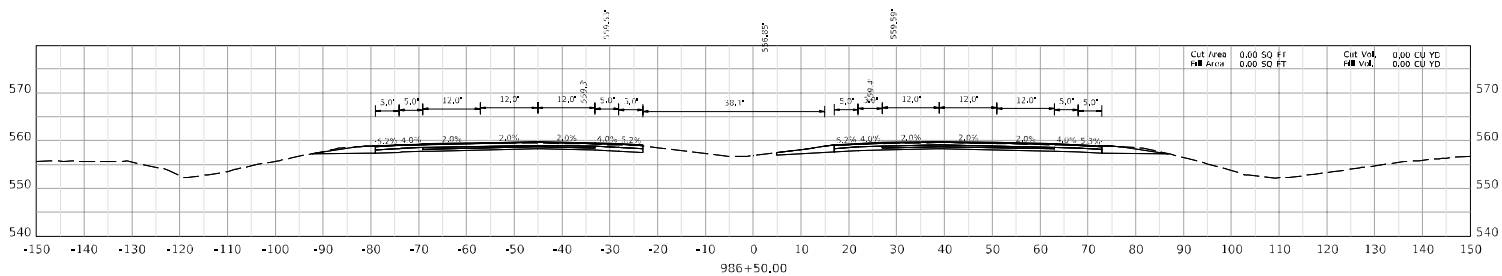
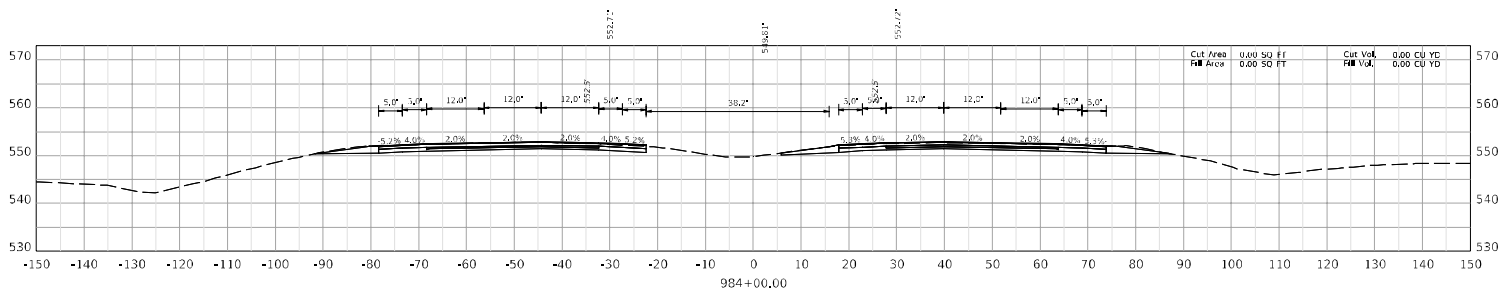
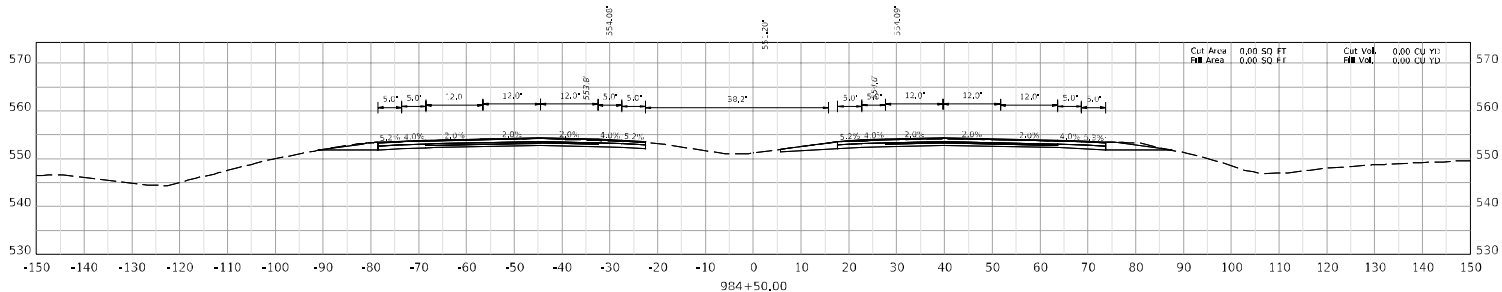
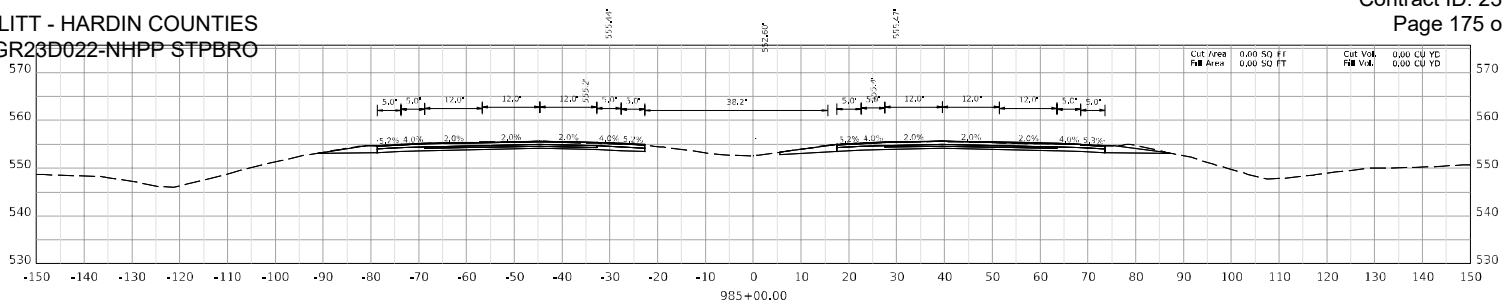
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



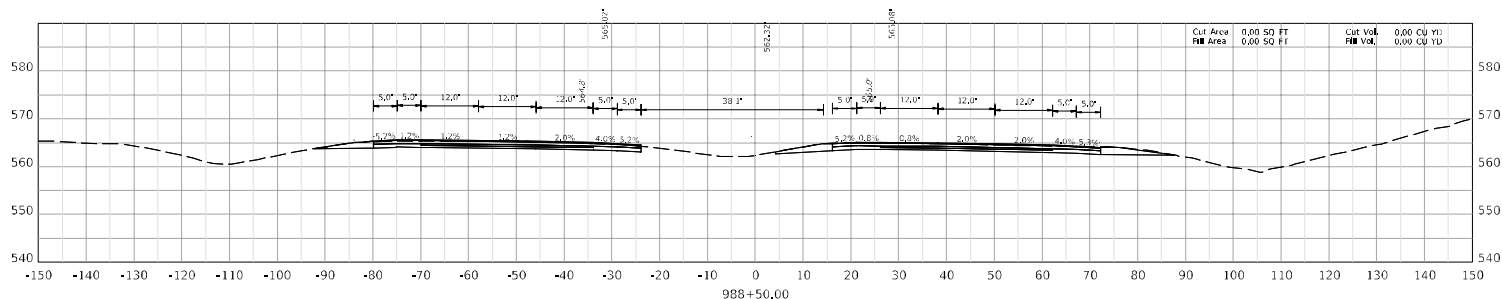
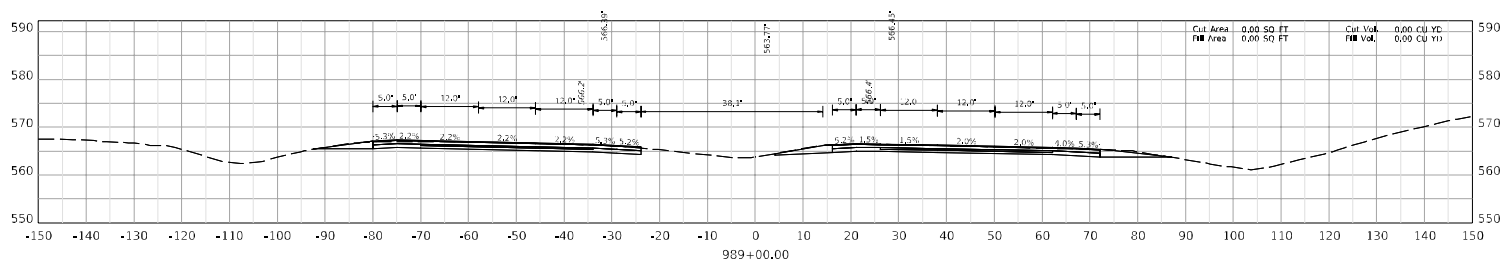
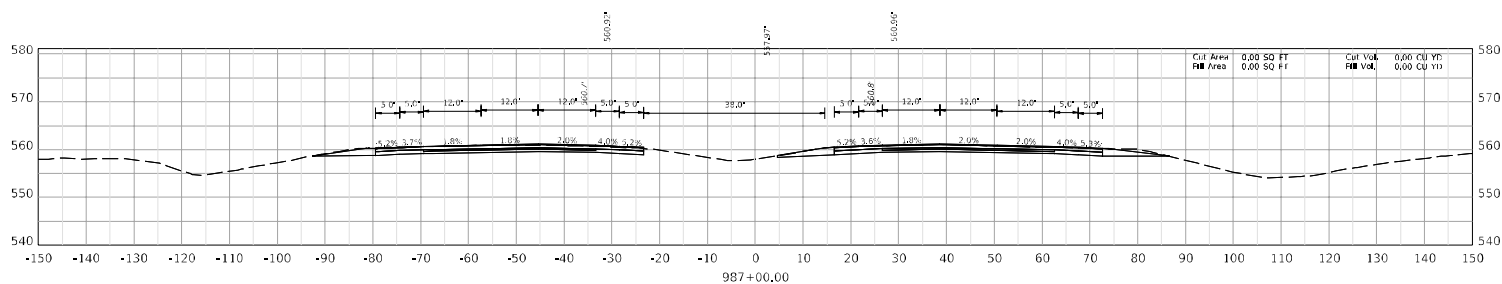
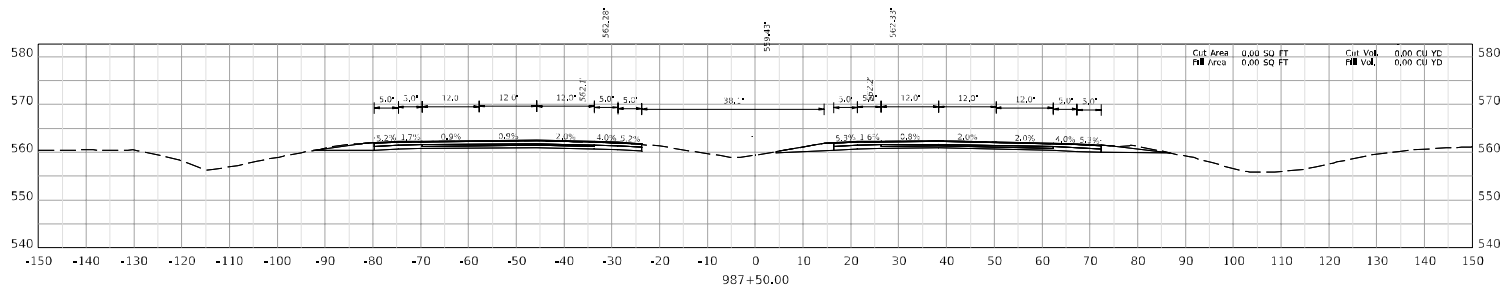
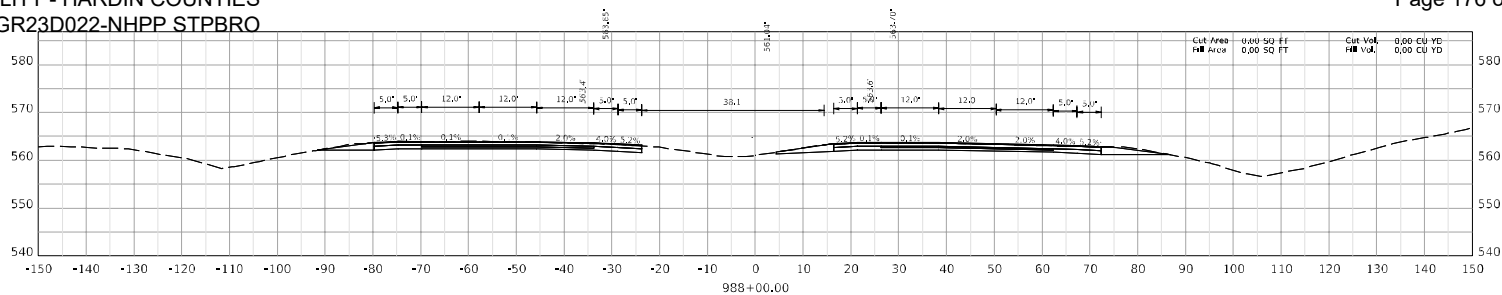
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BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

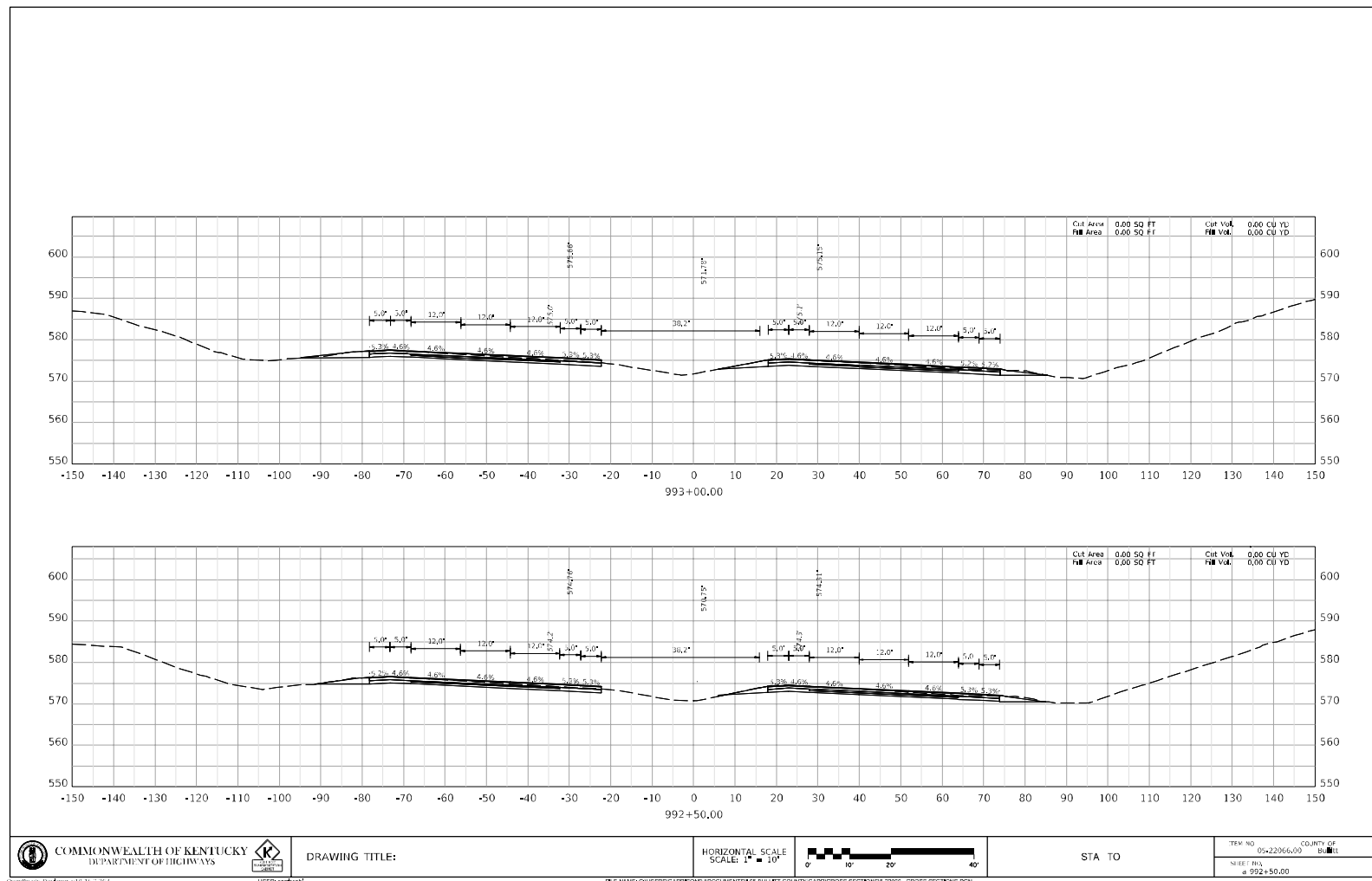
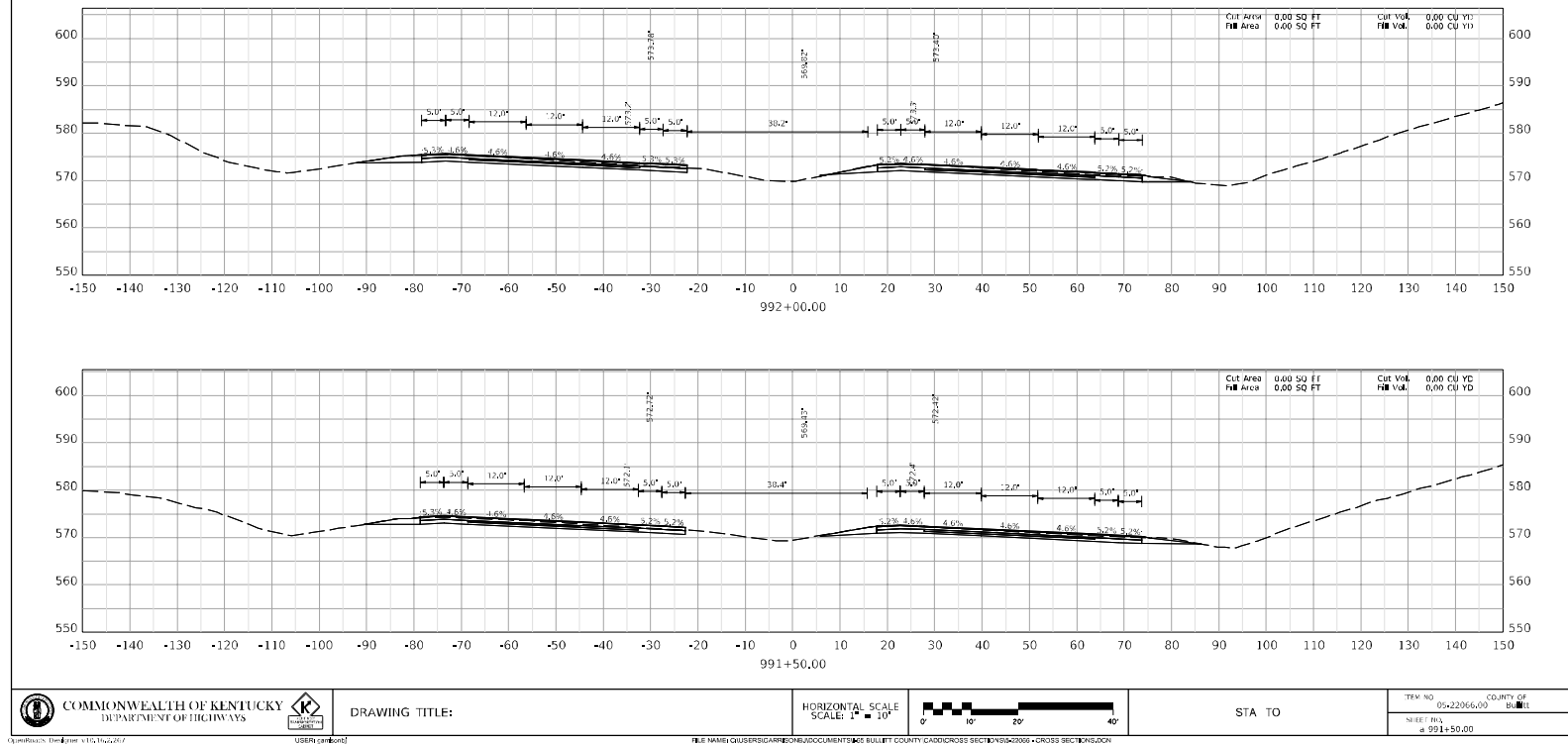


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

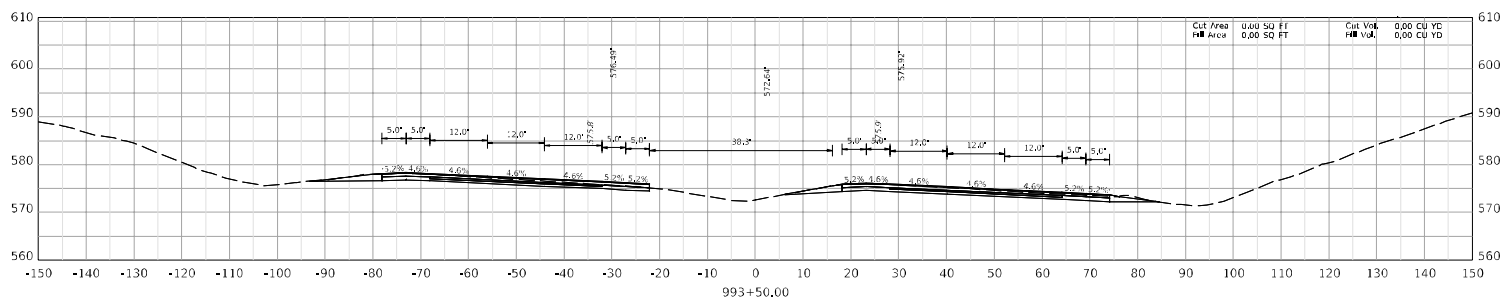
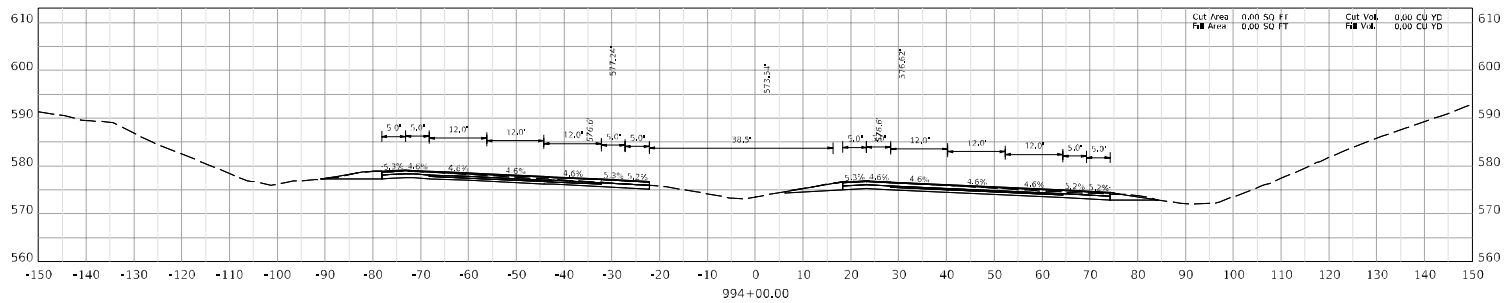




BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

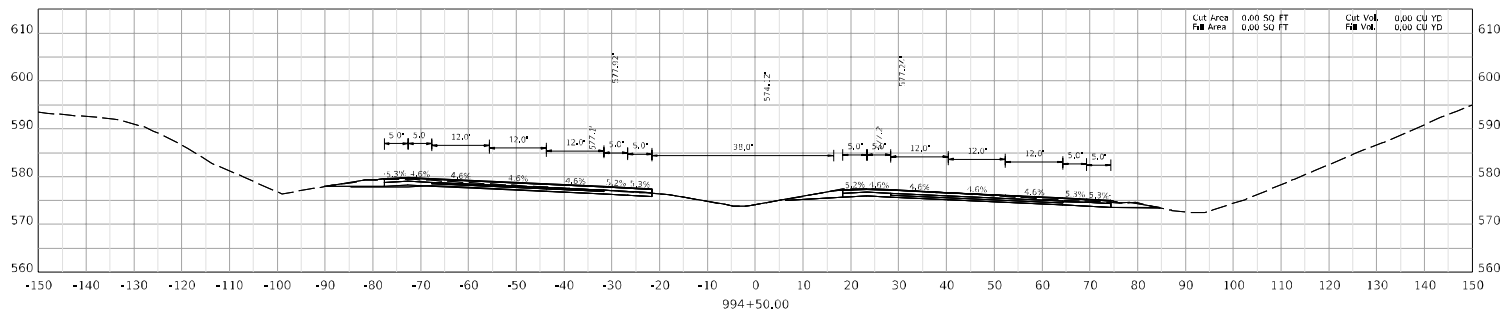
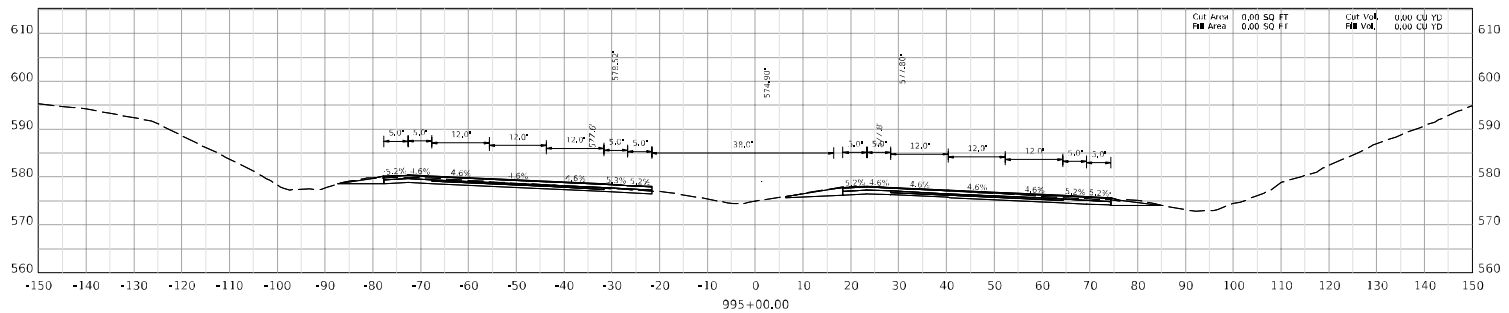
HORIZONTAL SCALE  
SCALE: 1" = 10'



0' 10' 20' 40'

STA TO

ITEM NO: 05-22066.00  
SHEET NO: 179  
COUNTY OF: BULLITT





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'

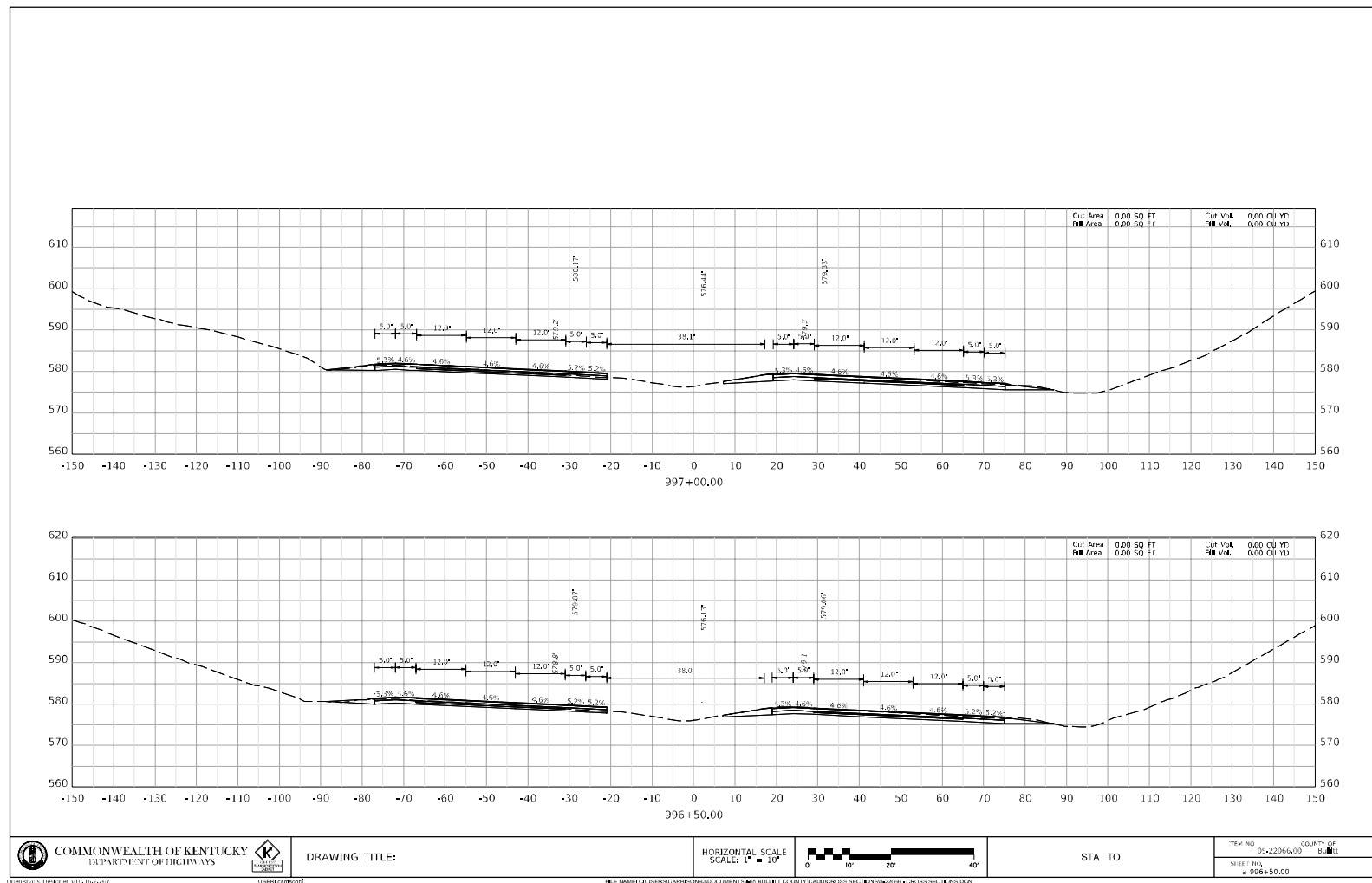
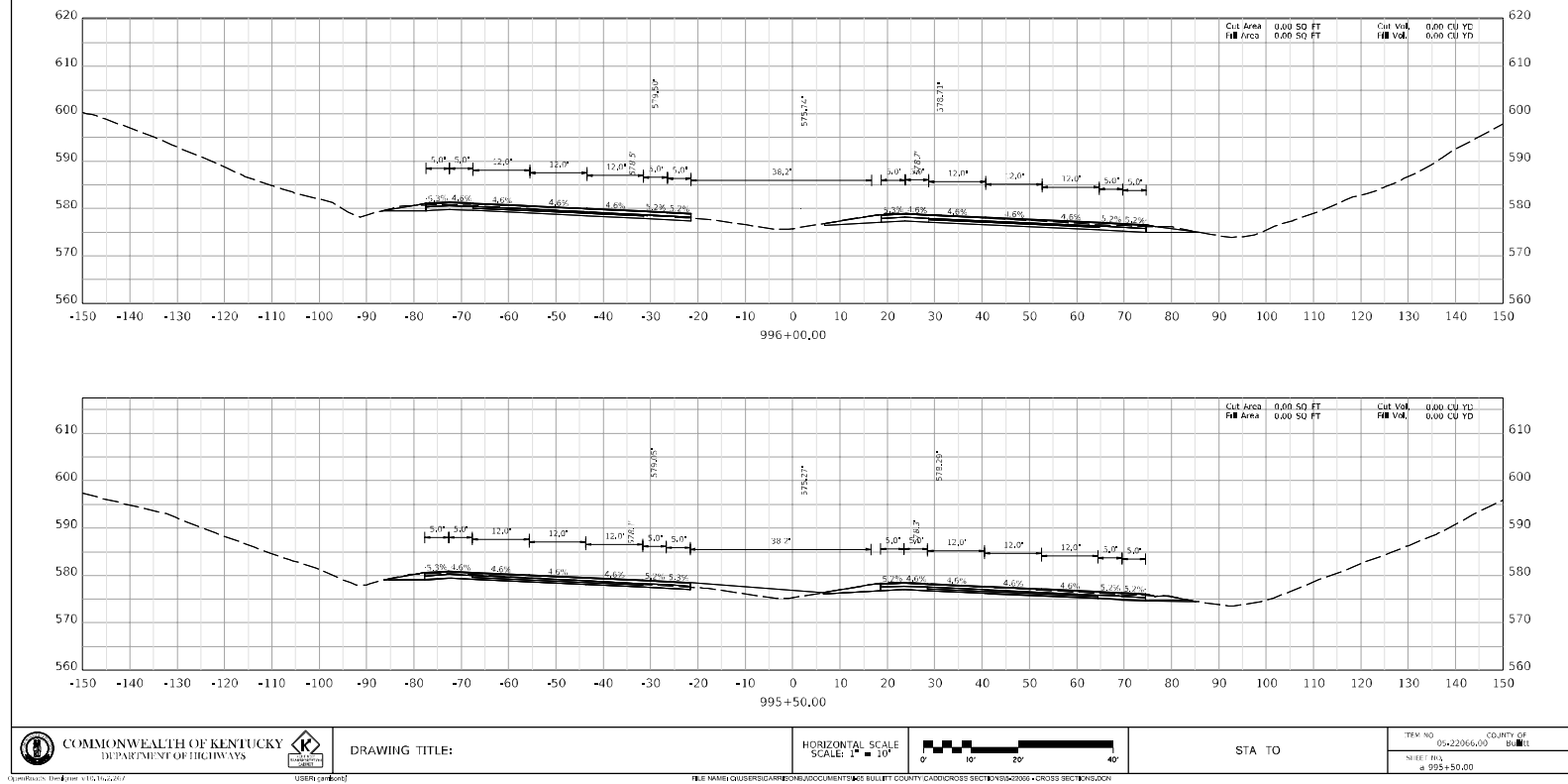


0' 10' 20' 40'

STA TO

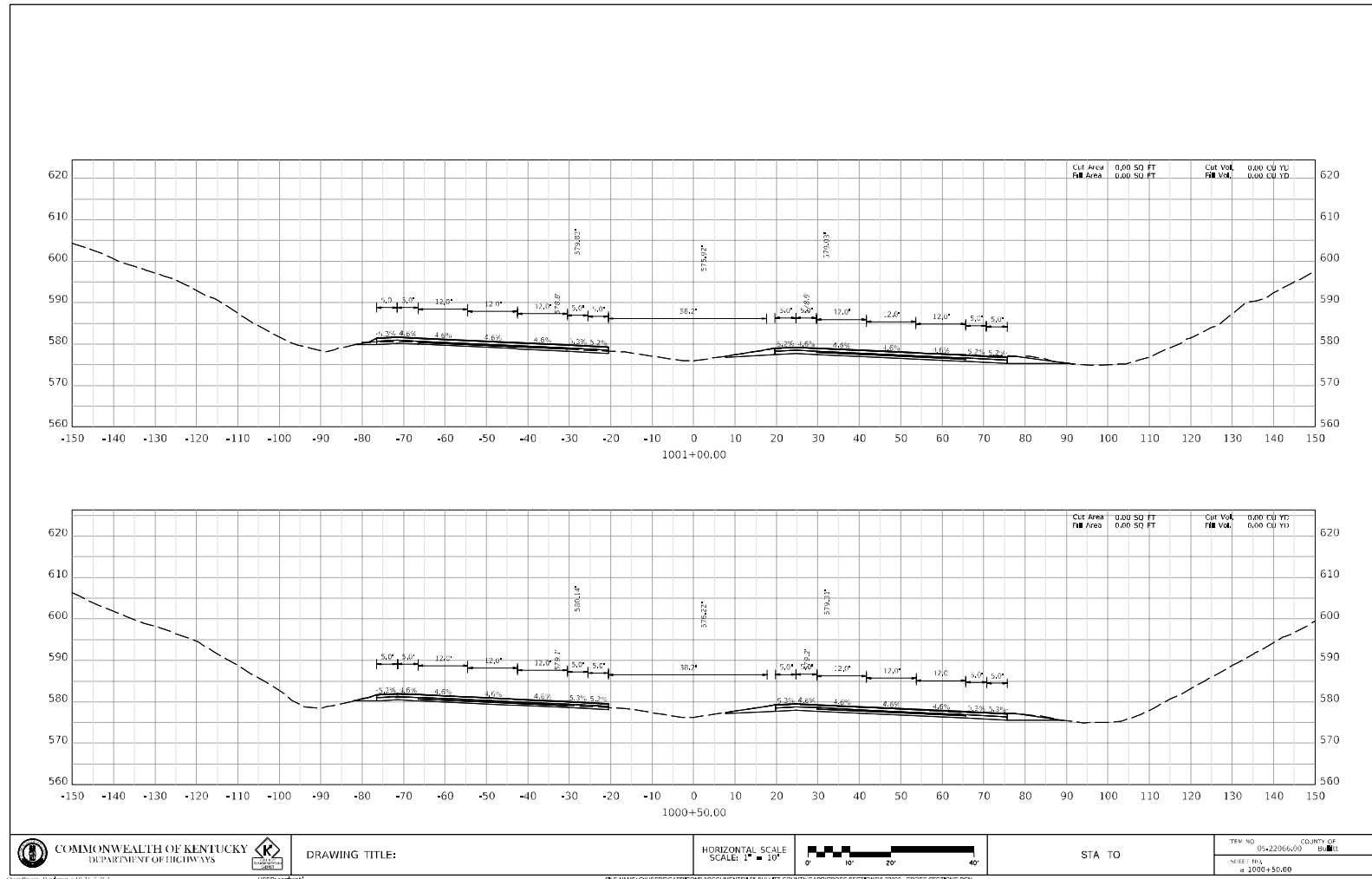
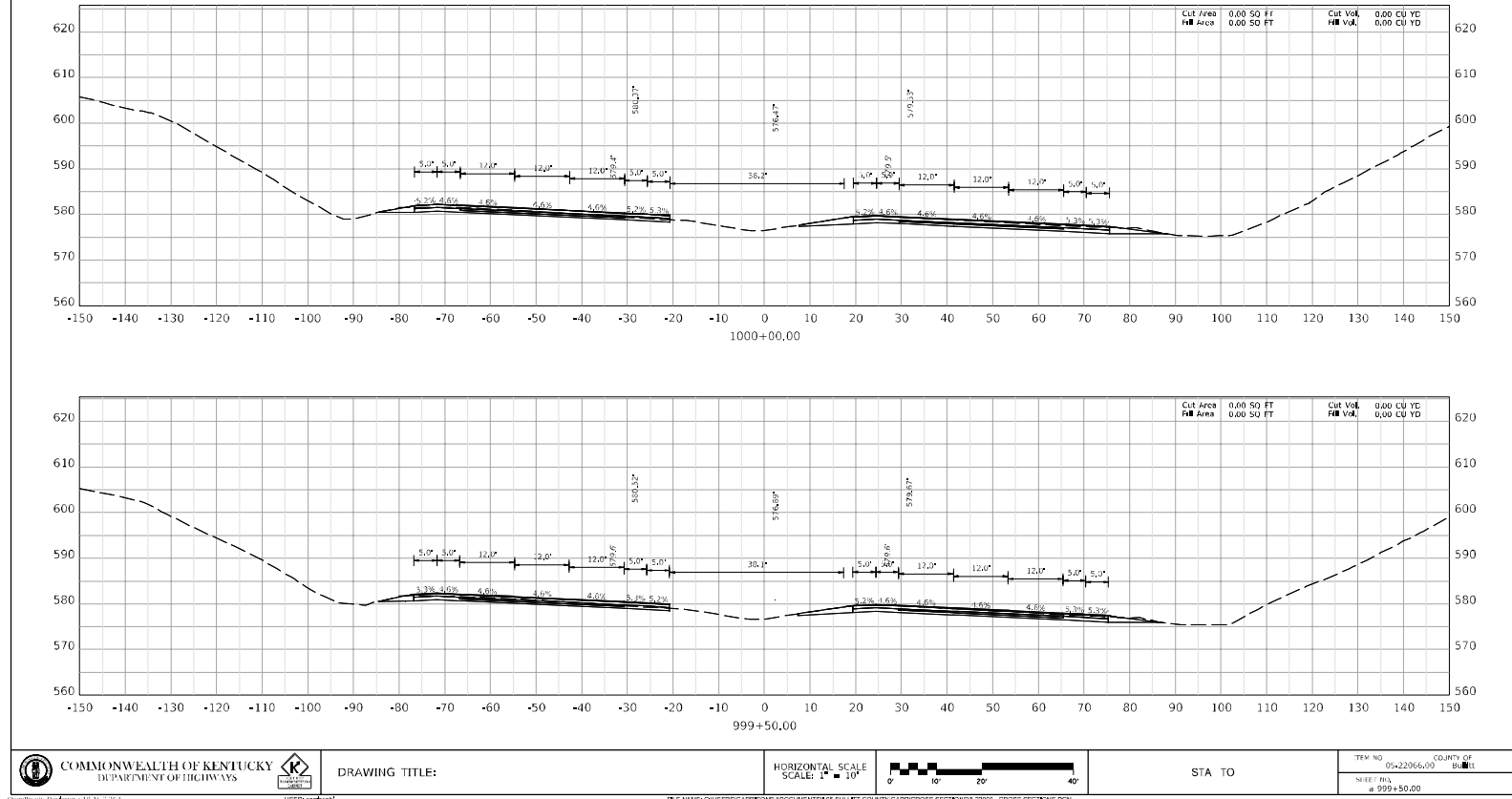
ITEM NO: 05-22066.00  
SHEET NO: 179  
COUNTY OF: BULLITT

BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



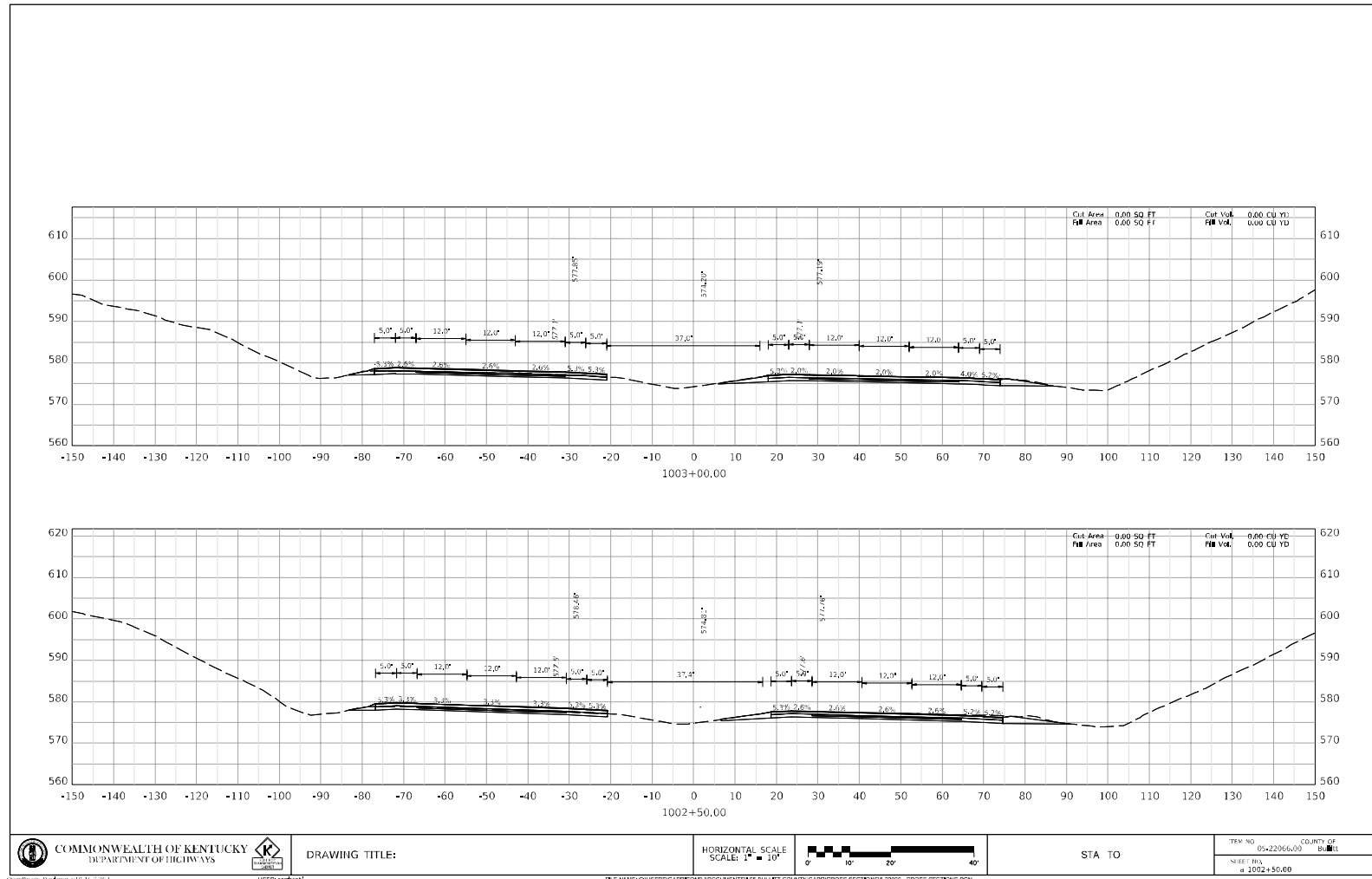
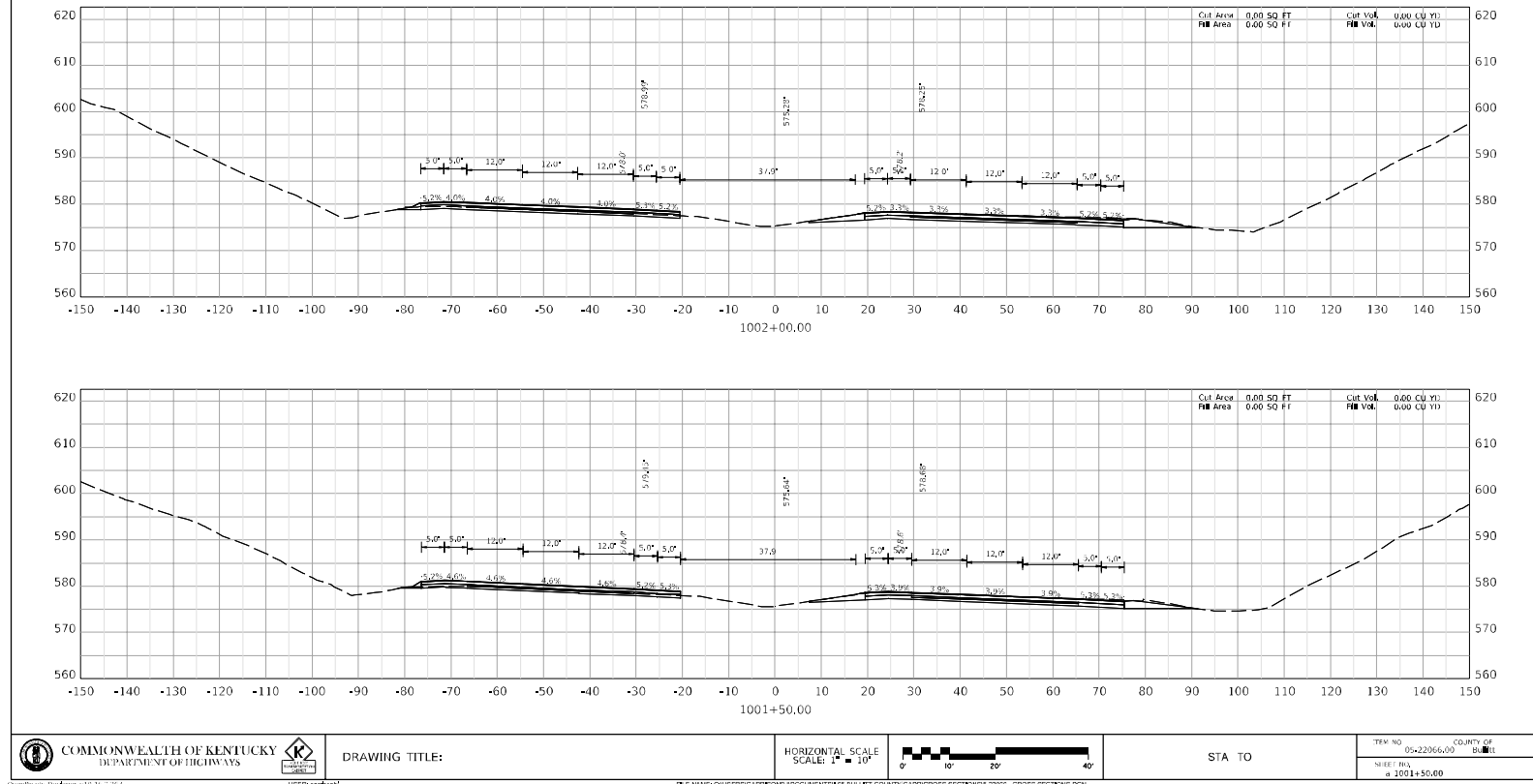
	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS		DRAWING TITLE:	HORIZONTAL SCALE SCALE: 1" = 10'		STA TO	TEN NO 0+22066.00 COUNTY OF BULLITT SHEET # 98A OF 98B \$0.00
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BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



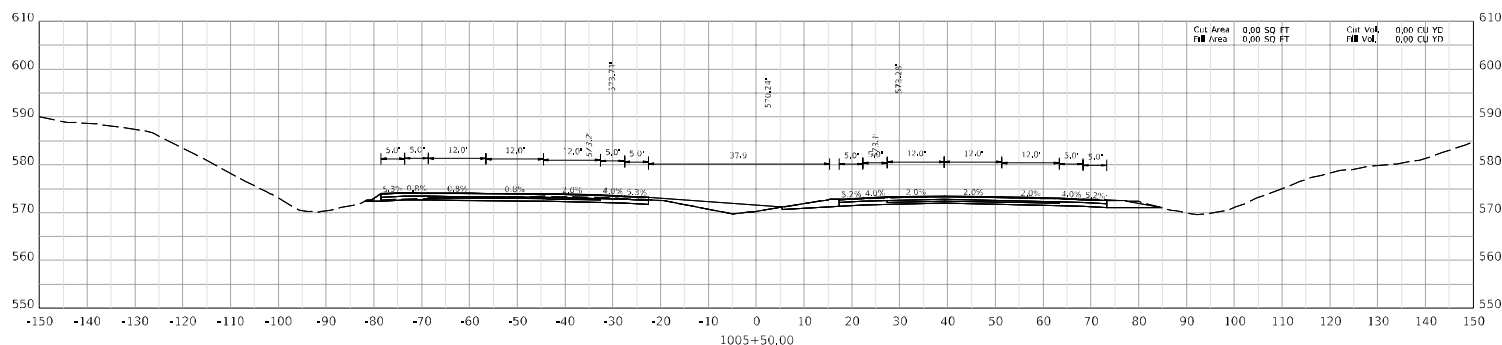
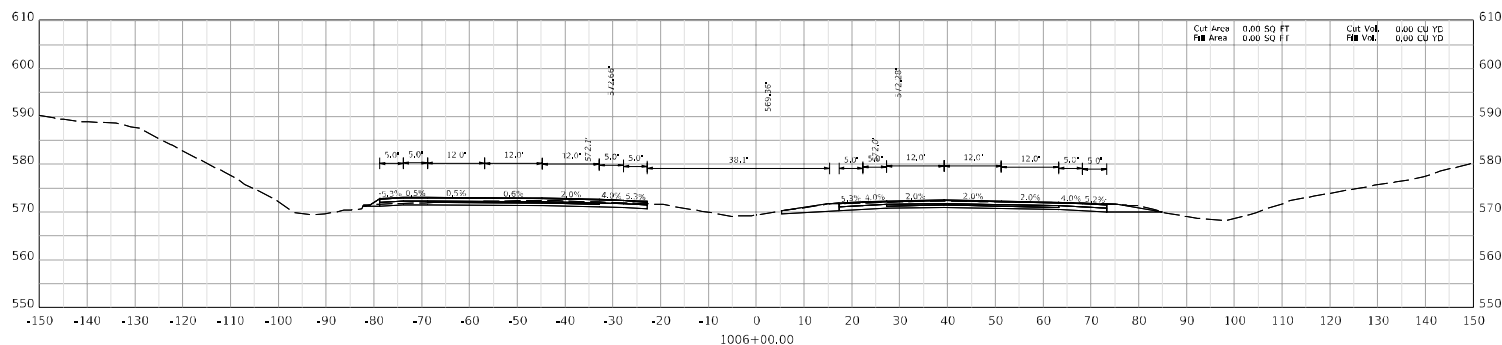


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: **h121gr23d022**

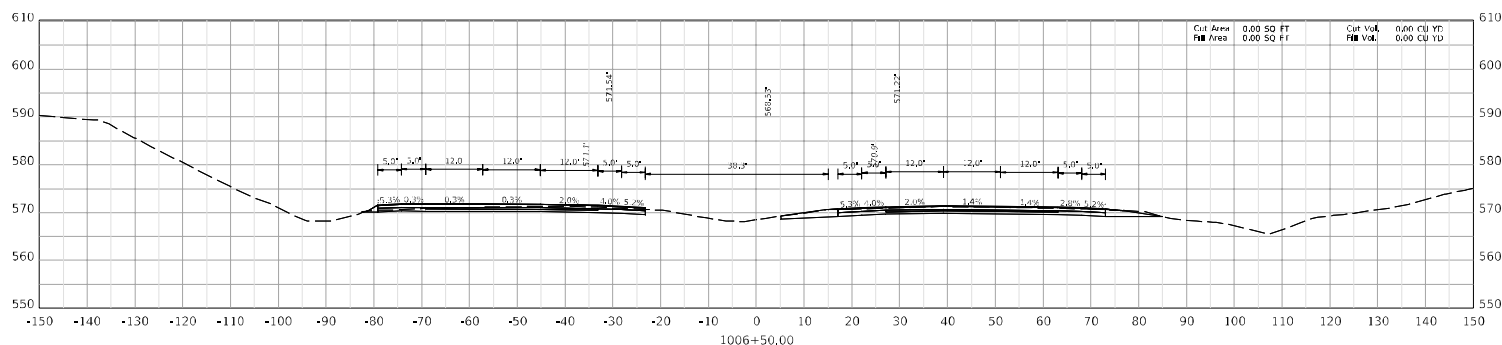
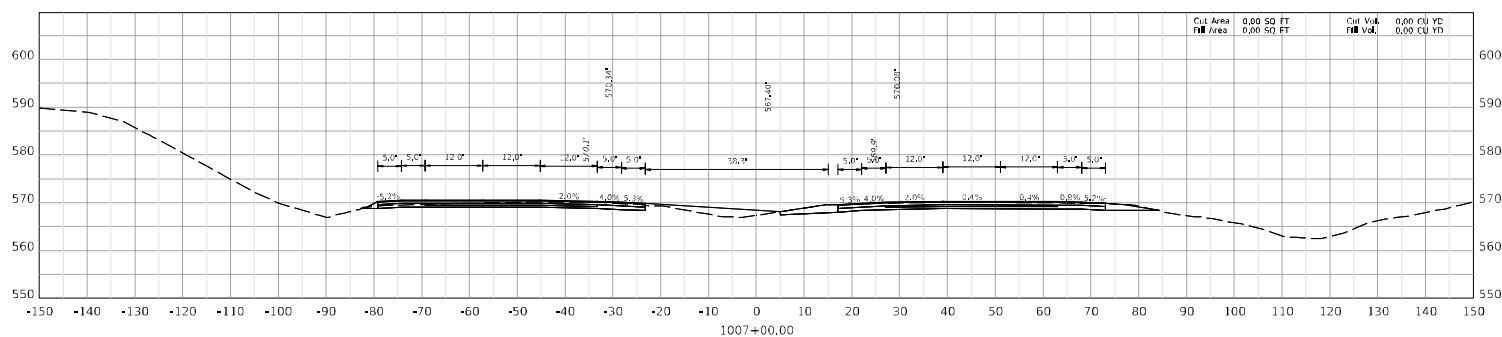
DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



STA TO

TEAM NO. COUNTY OF  
SHEET 184 100000





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: **h121gr23d022**

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'

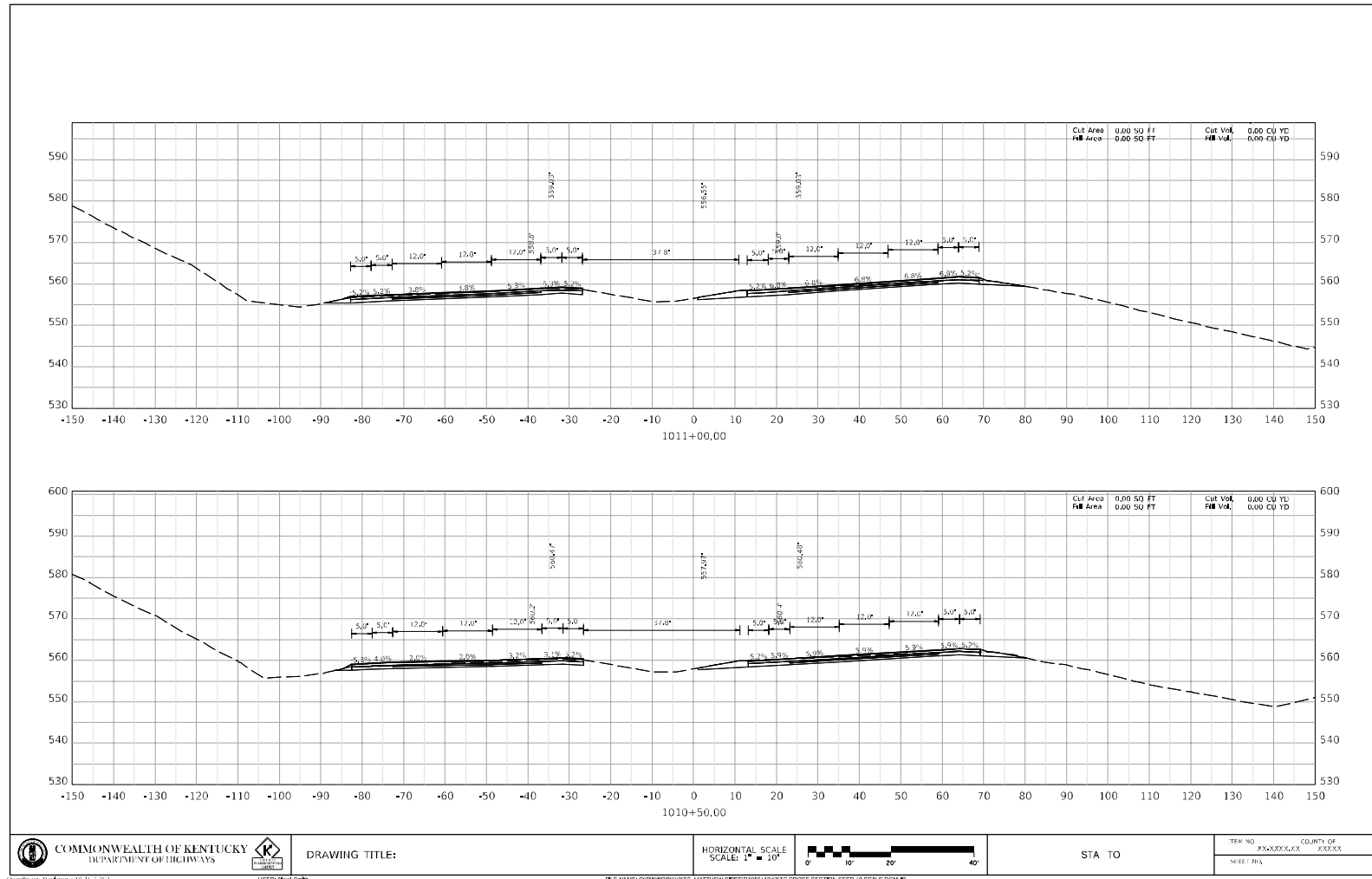
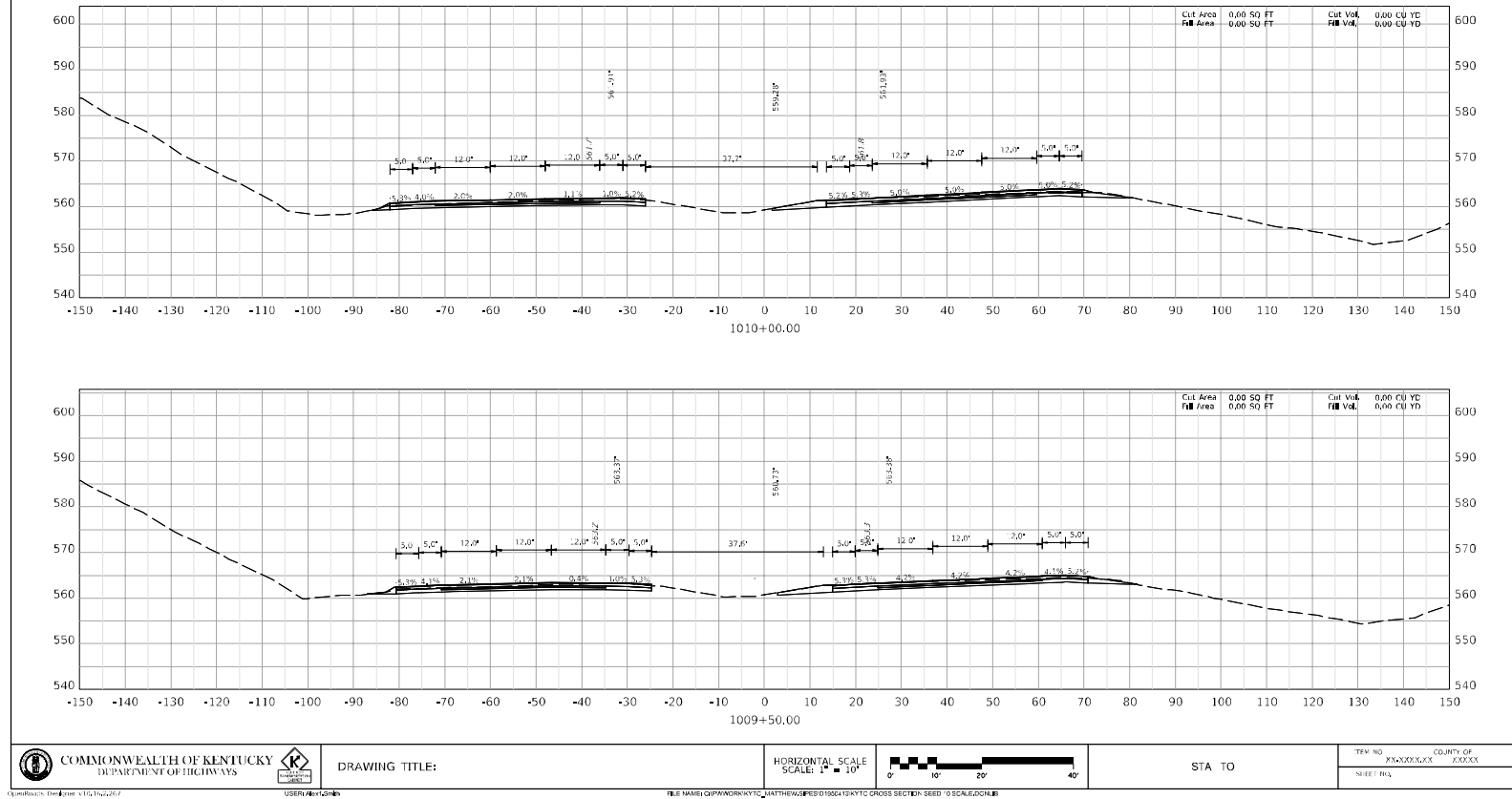


STA TO

TEAM NO. COUNTY OF  
SHEET 184 100000

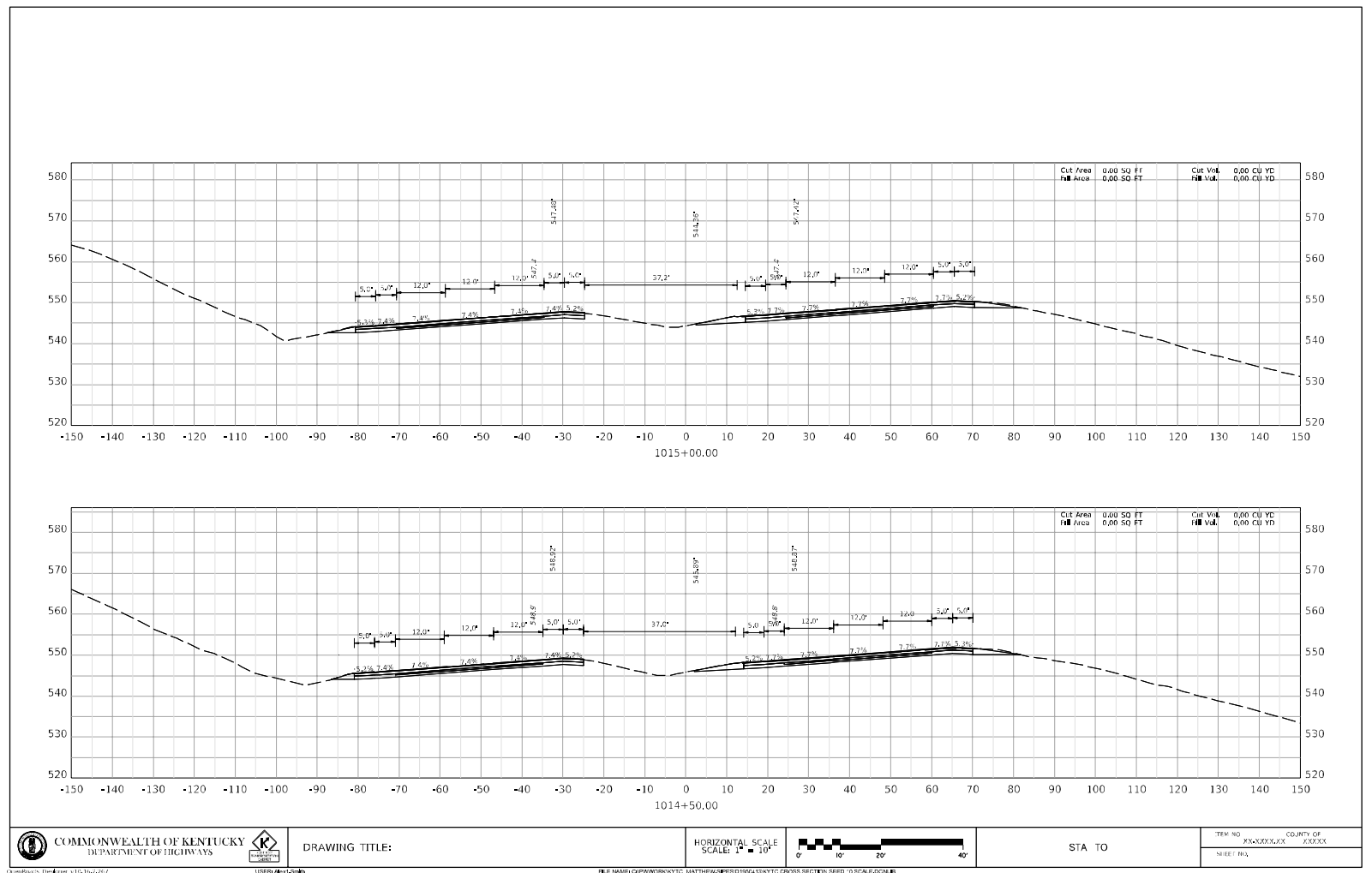
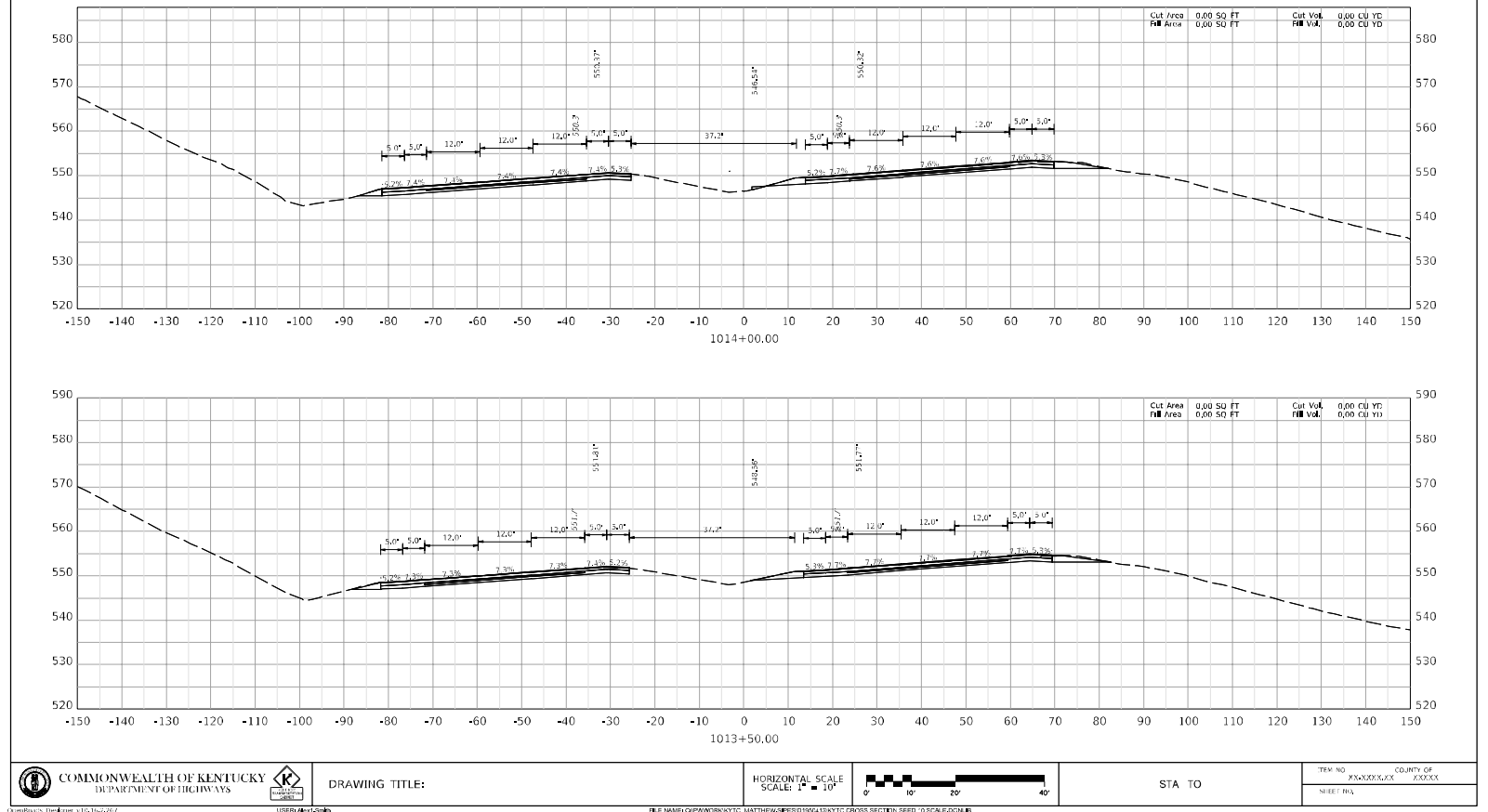


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

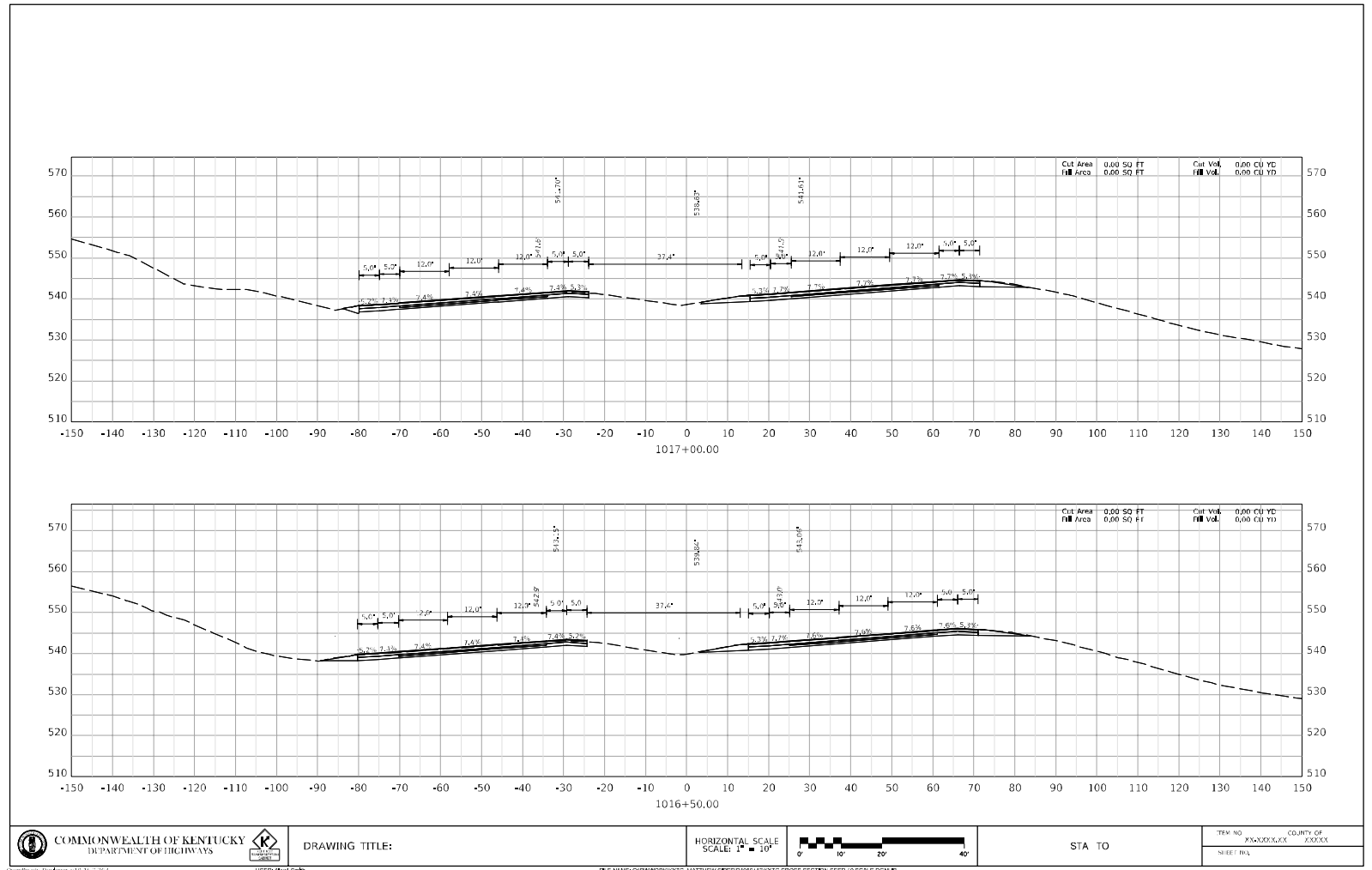
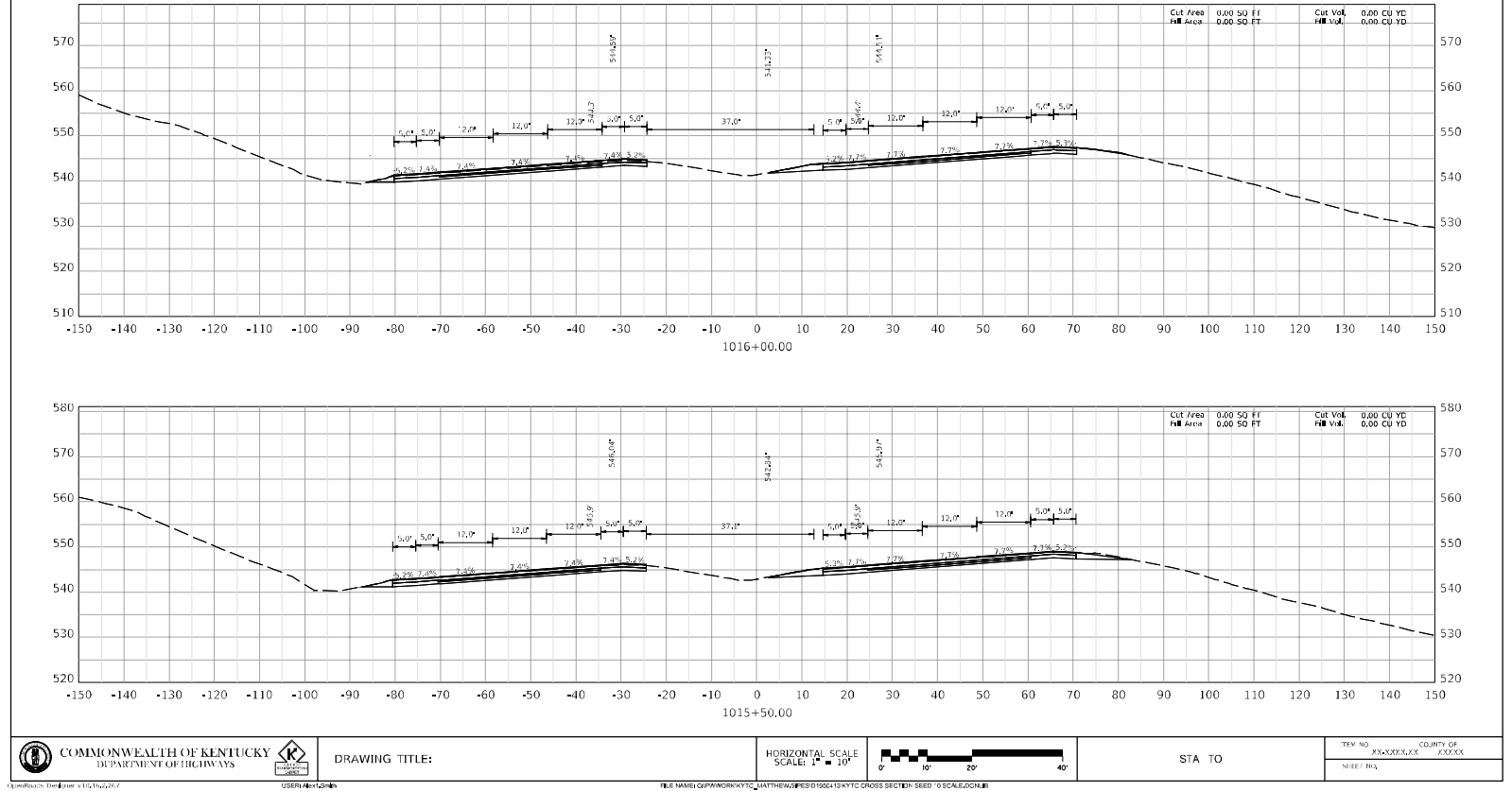


<b>COMMONWEALTH OF KENTUCKY</b> DEPARTMENT OF HIGHWAYS		<b>DRAWING TITLE:</b>	<b>HORIZONTAL SCALE</b> SCALE: 1" = 10'		<b>STA TO</b>	<b>TRM NO</b> <b>COUNTY OF</b> XXXXXXX      XXXXX
						<b>SHEET NO.</b>

BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

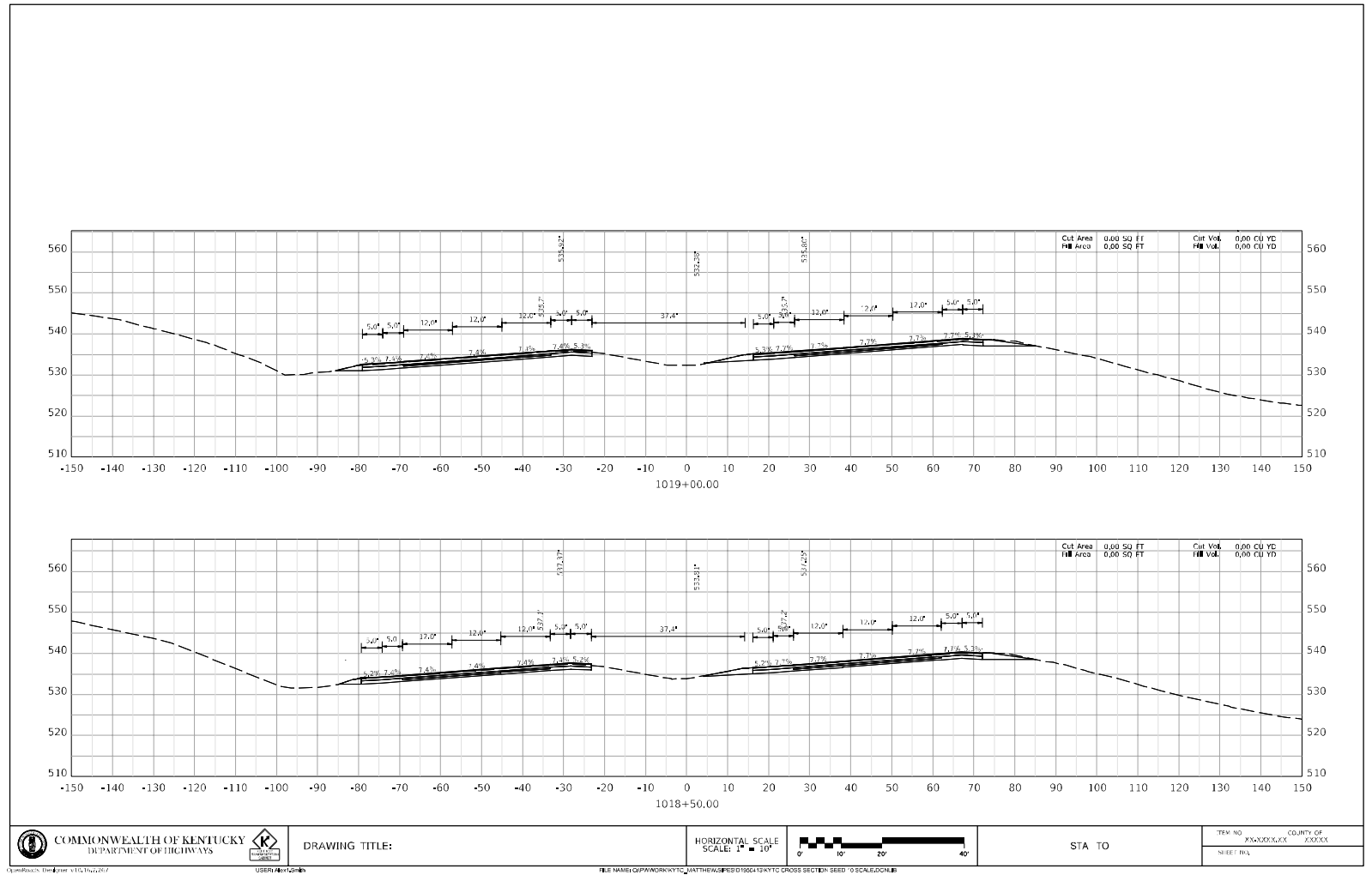
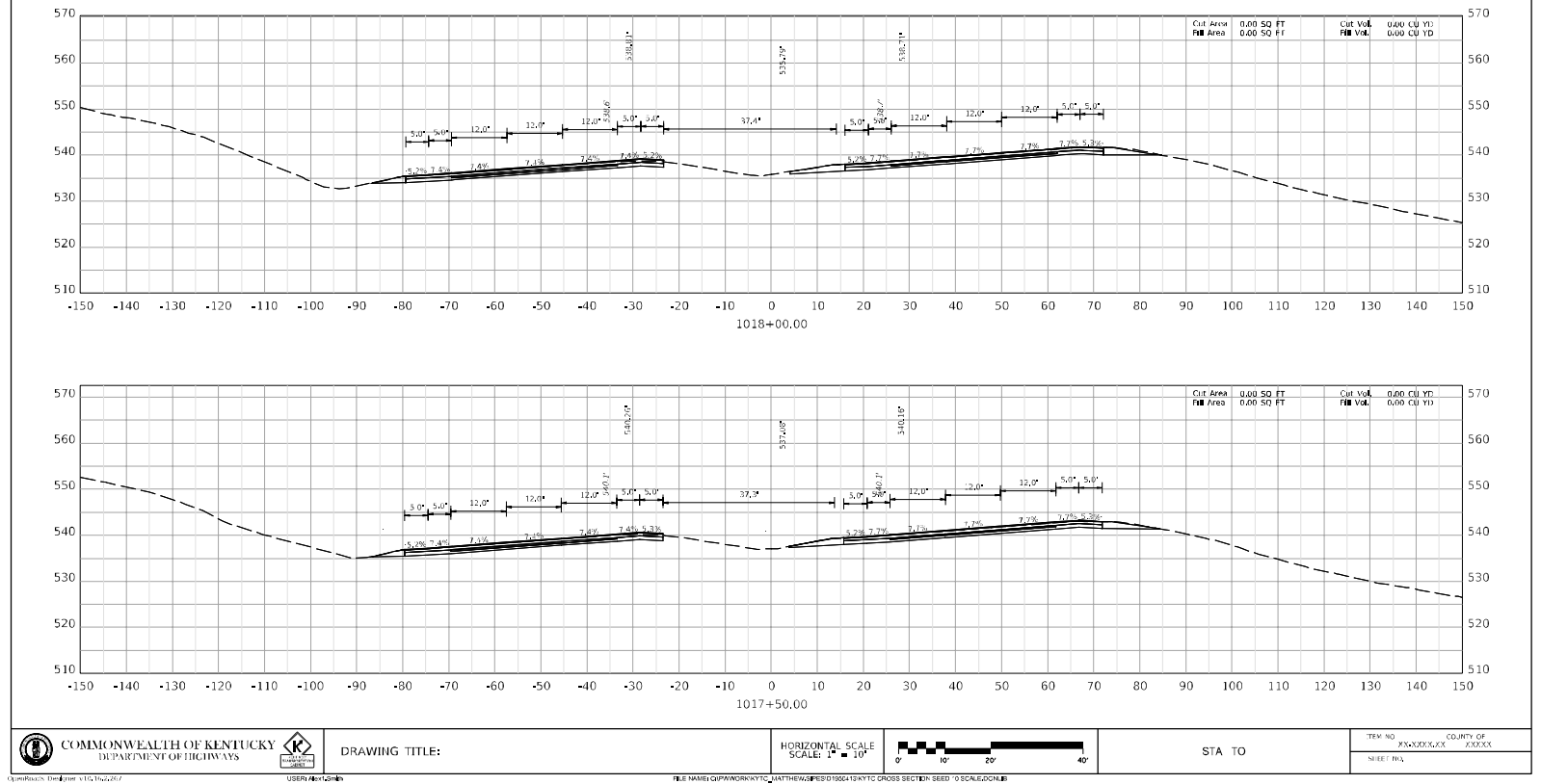


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

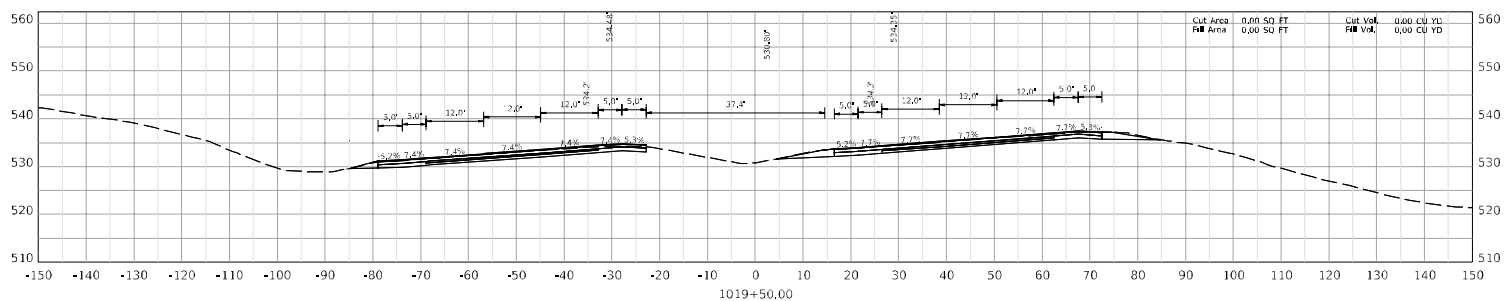
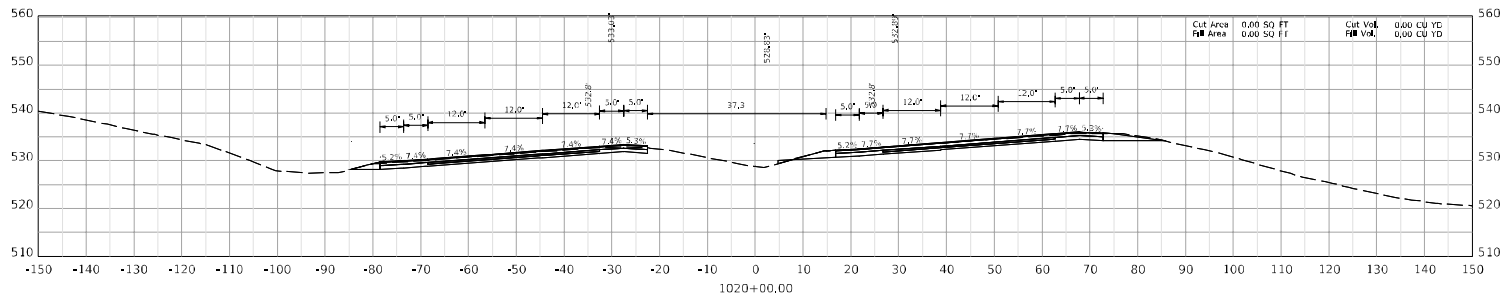




BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



0' 10' 20' 40'

STA TO

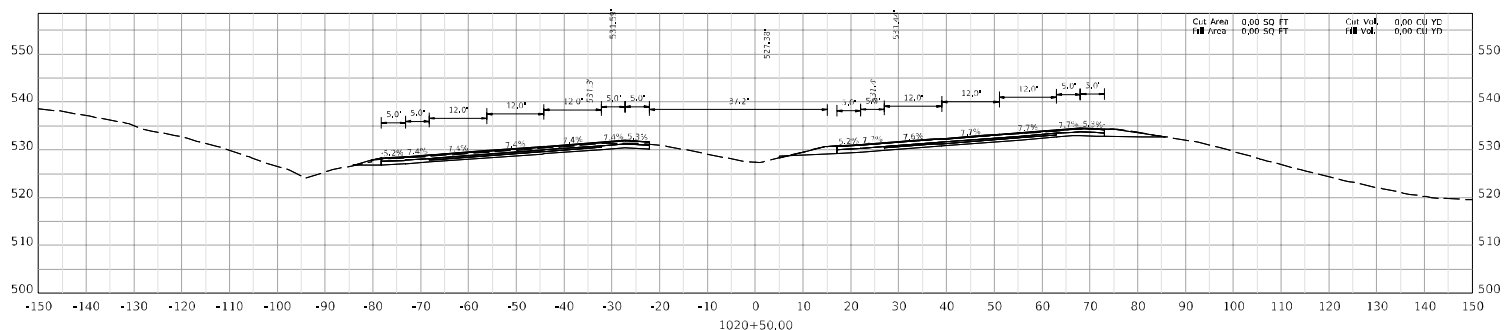
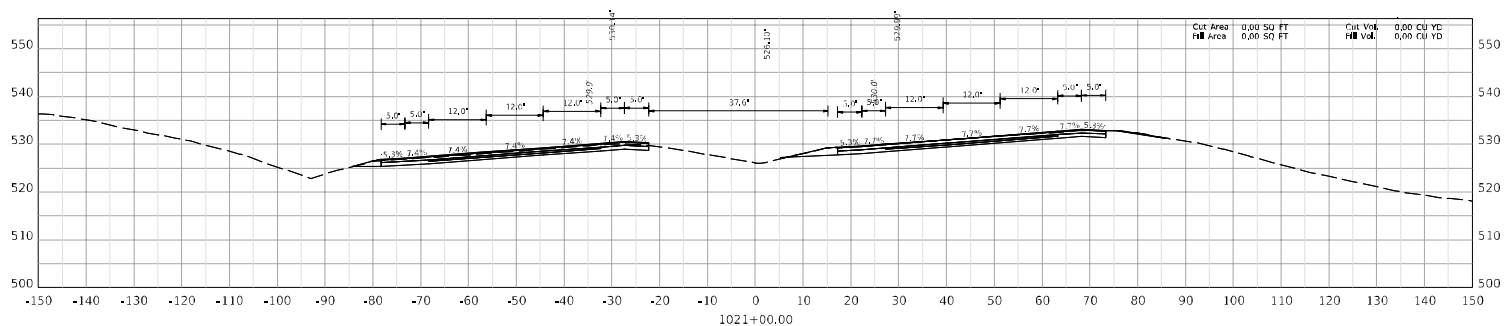
ITEM NO

COUNTY OF

SHEET NO

XXXXXX

XXXXXX





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



0' 10' 20' 40'

STA TO

ITEM NO

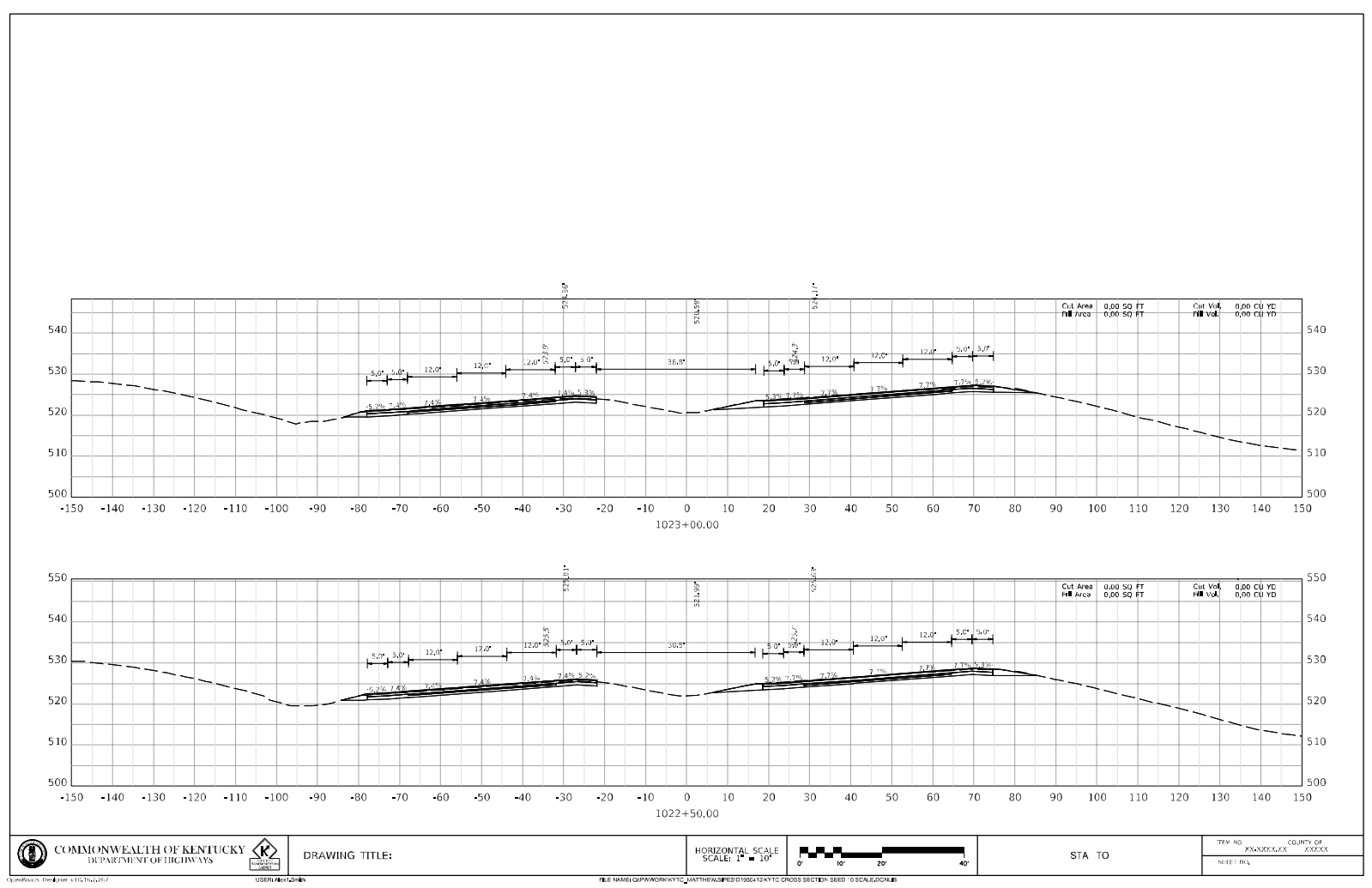
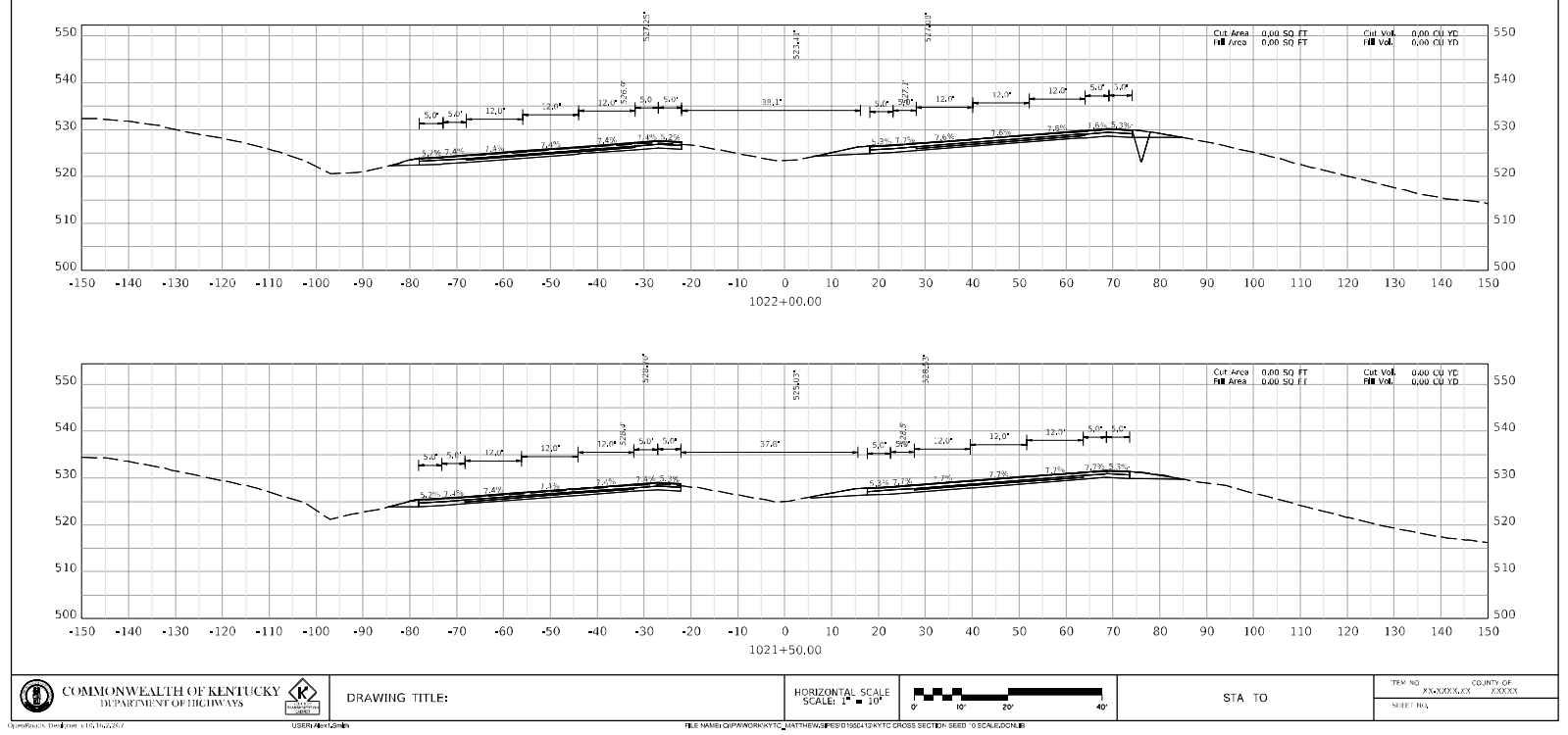
COUNTY OF

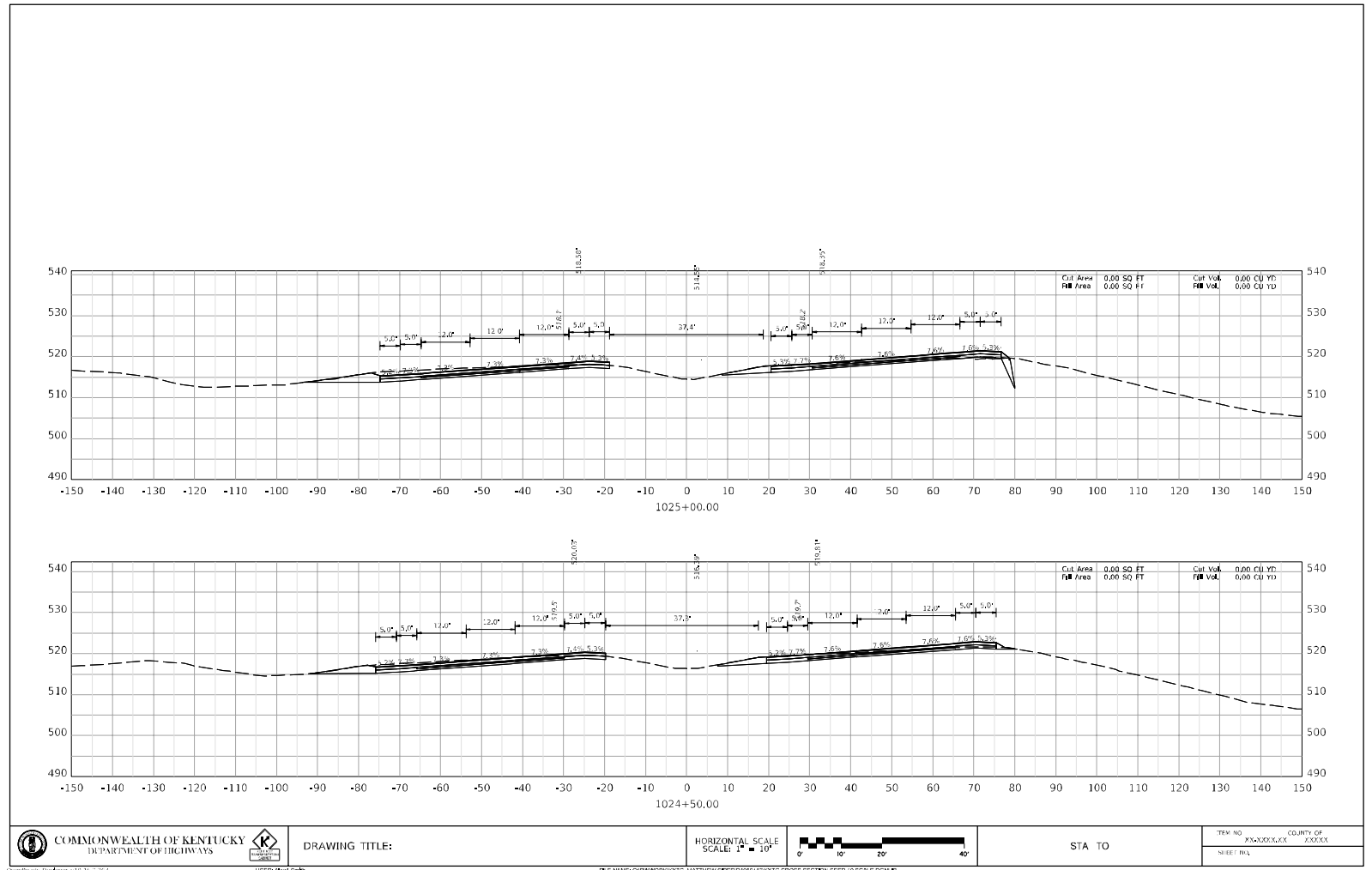
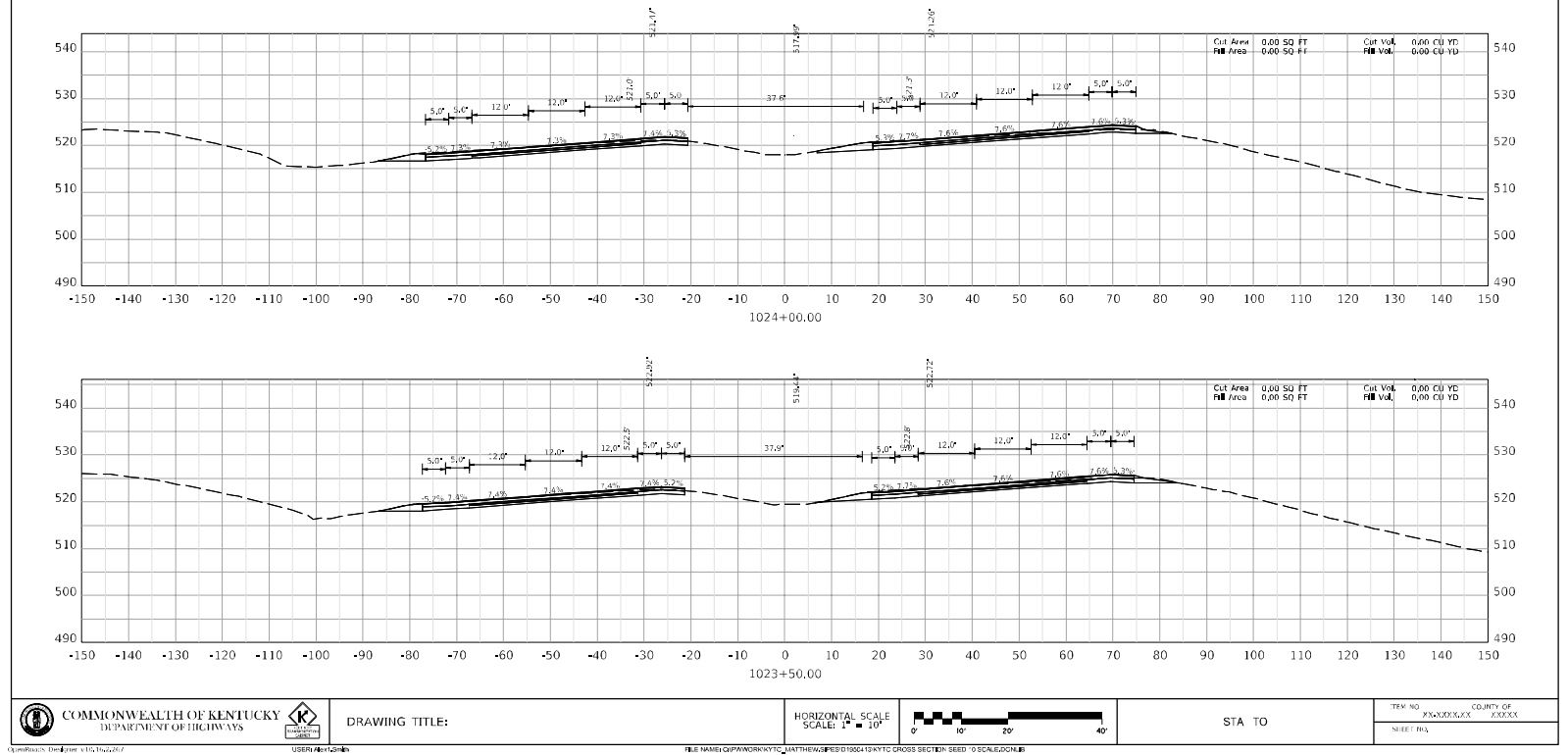
SHEET NO

XXXXXX

XXXXXX

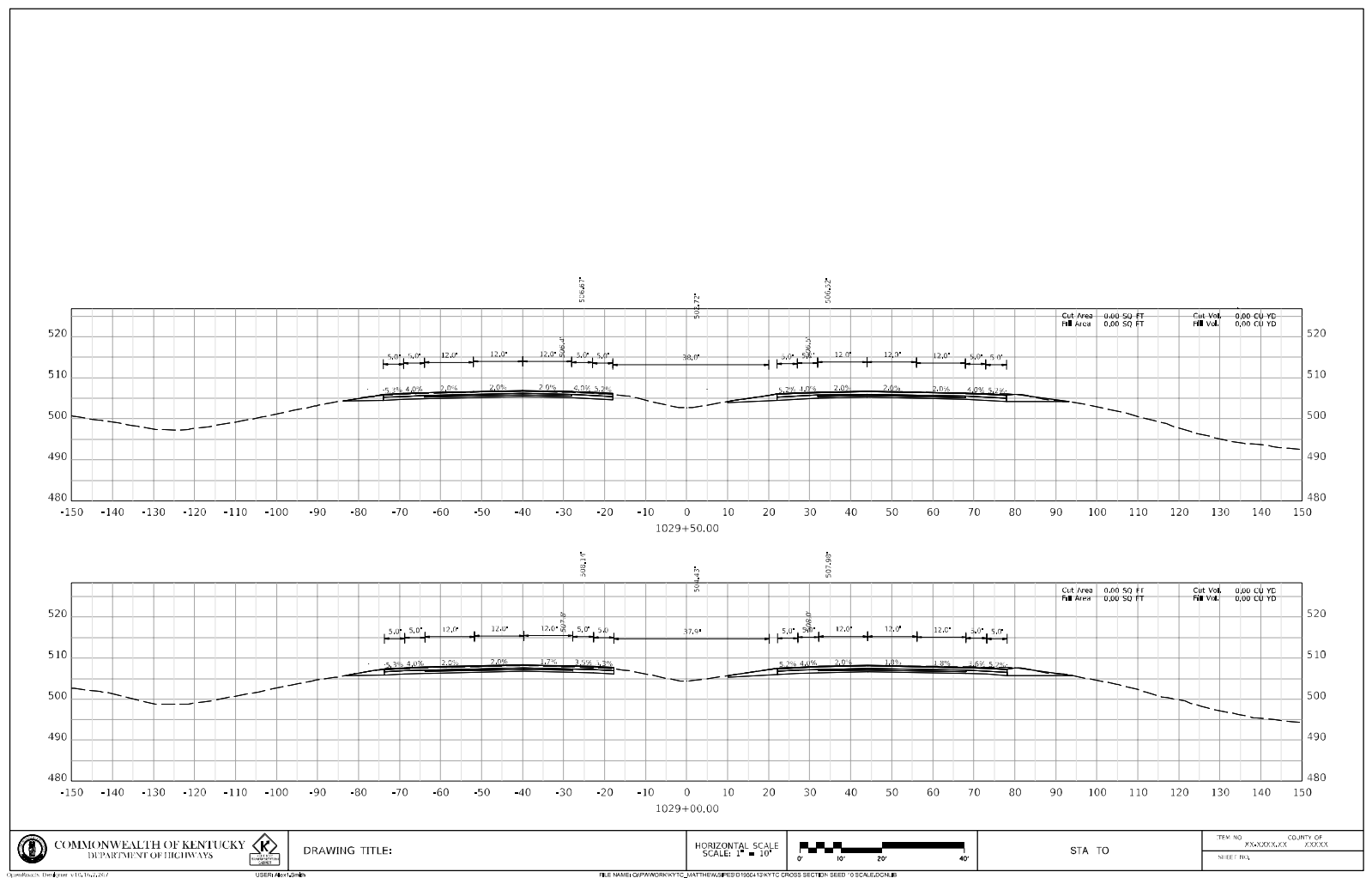
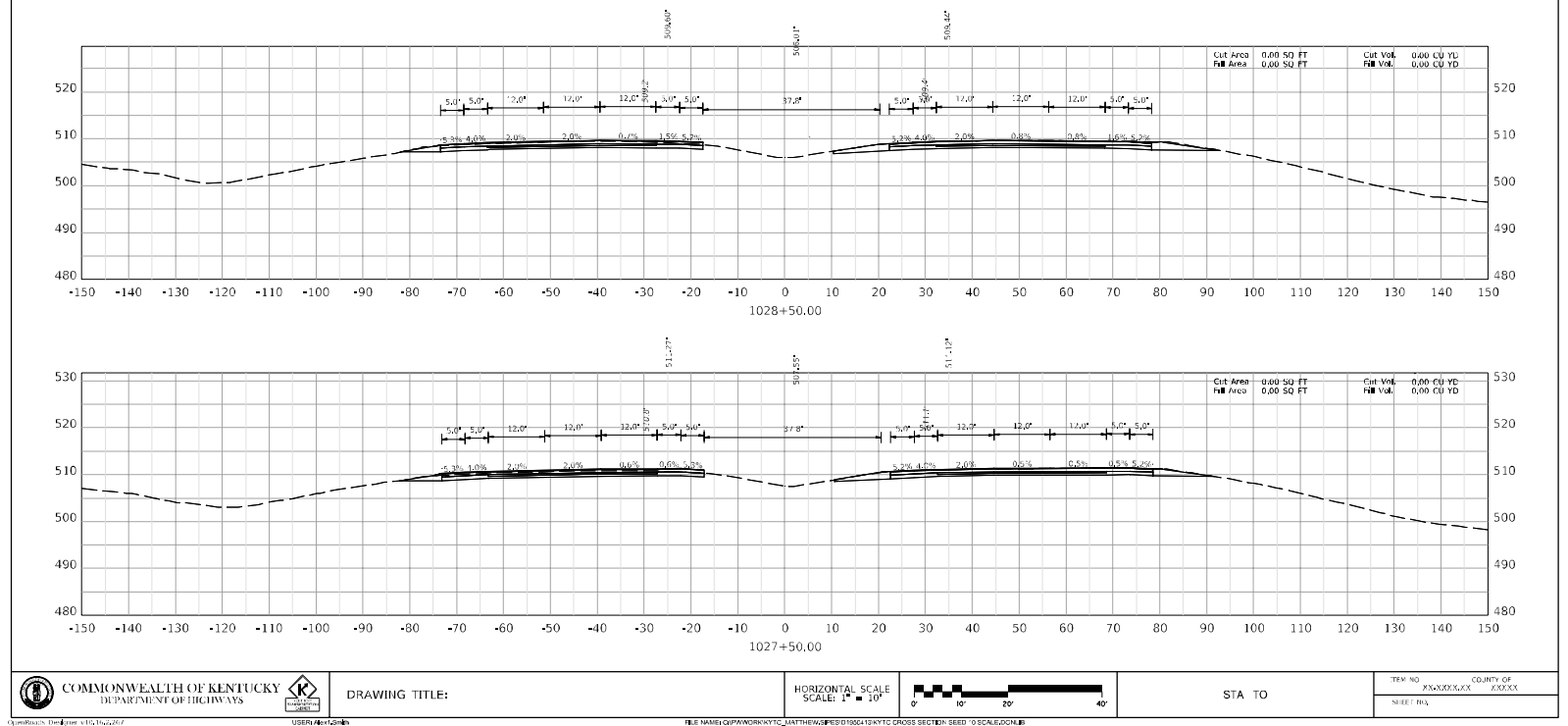
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





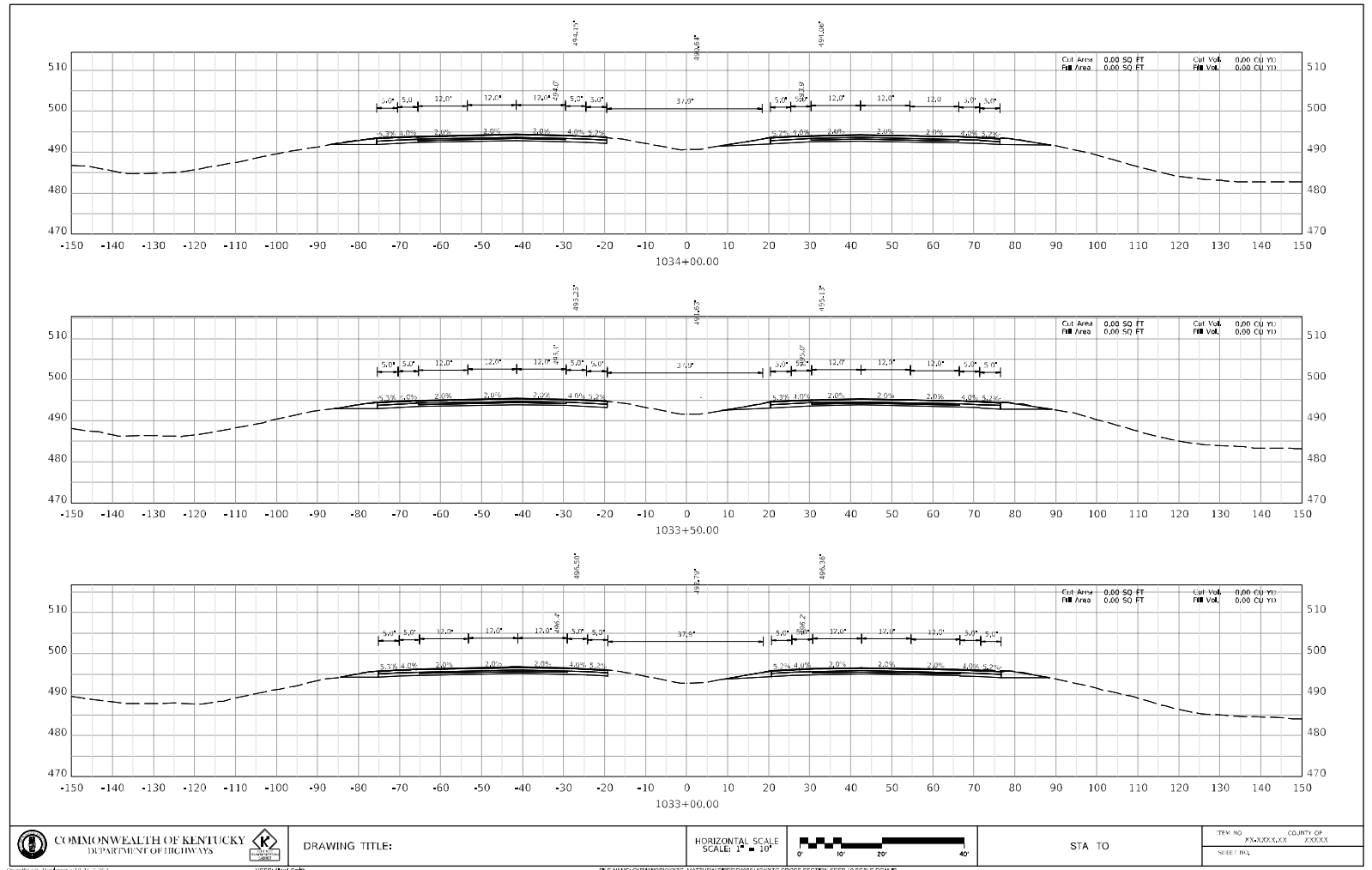
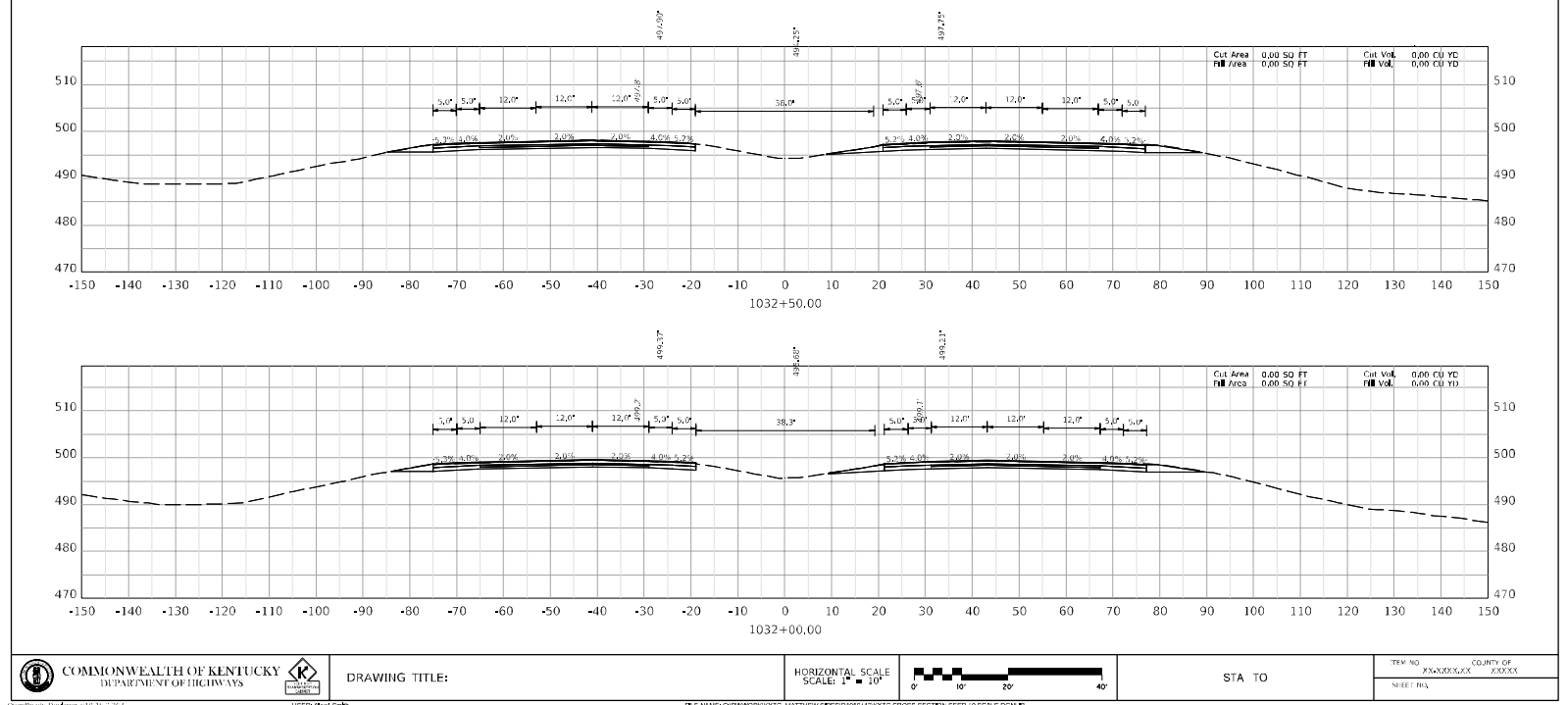


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



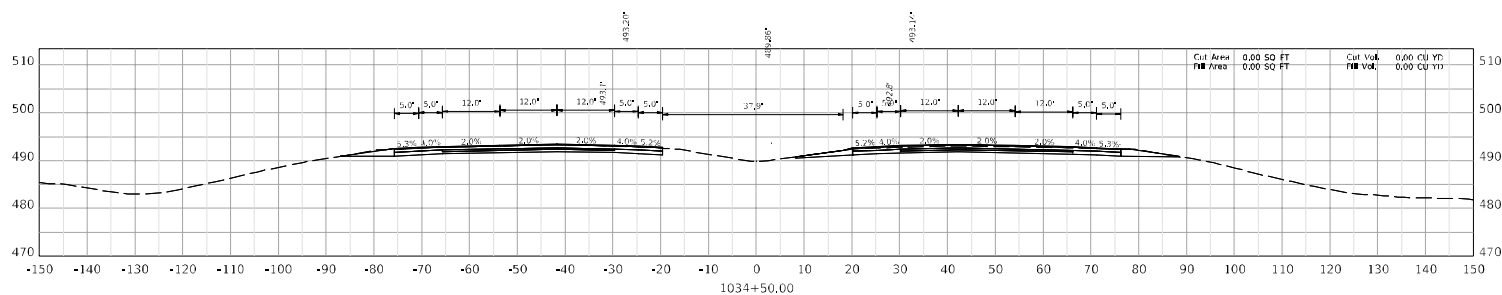
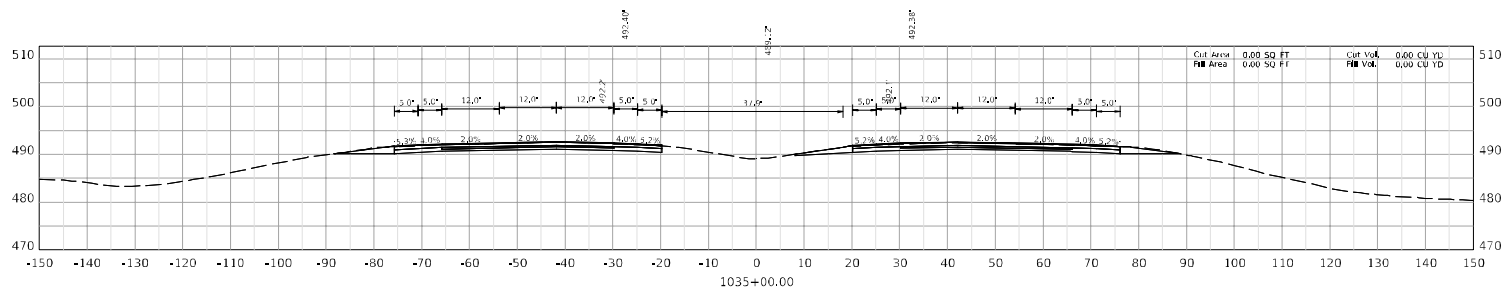
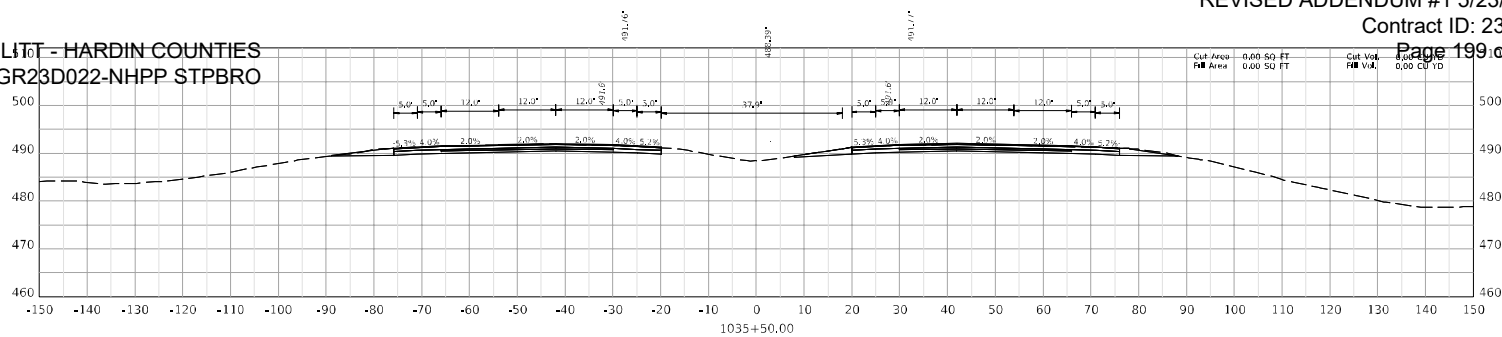
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BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





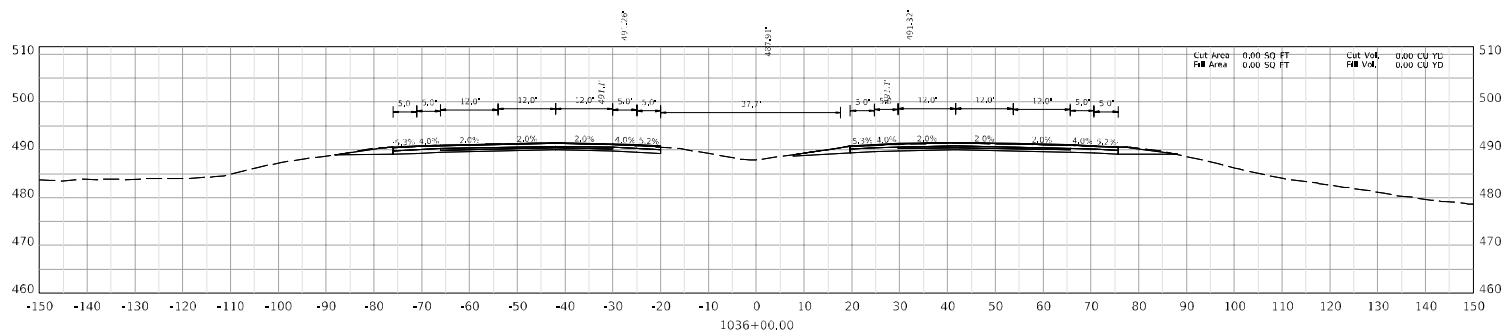
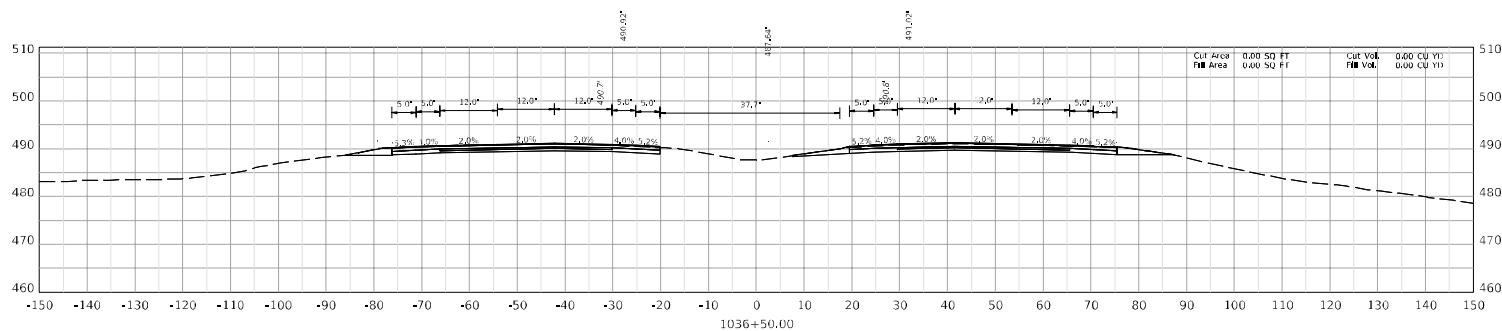
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



	DRAWING TITLE:	HORIZONTAL SCALE SCALE: 1" = 10'		STA TO	TRM NO	COUNTY OF
					XXXXXX	XXXXXX

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

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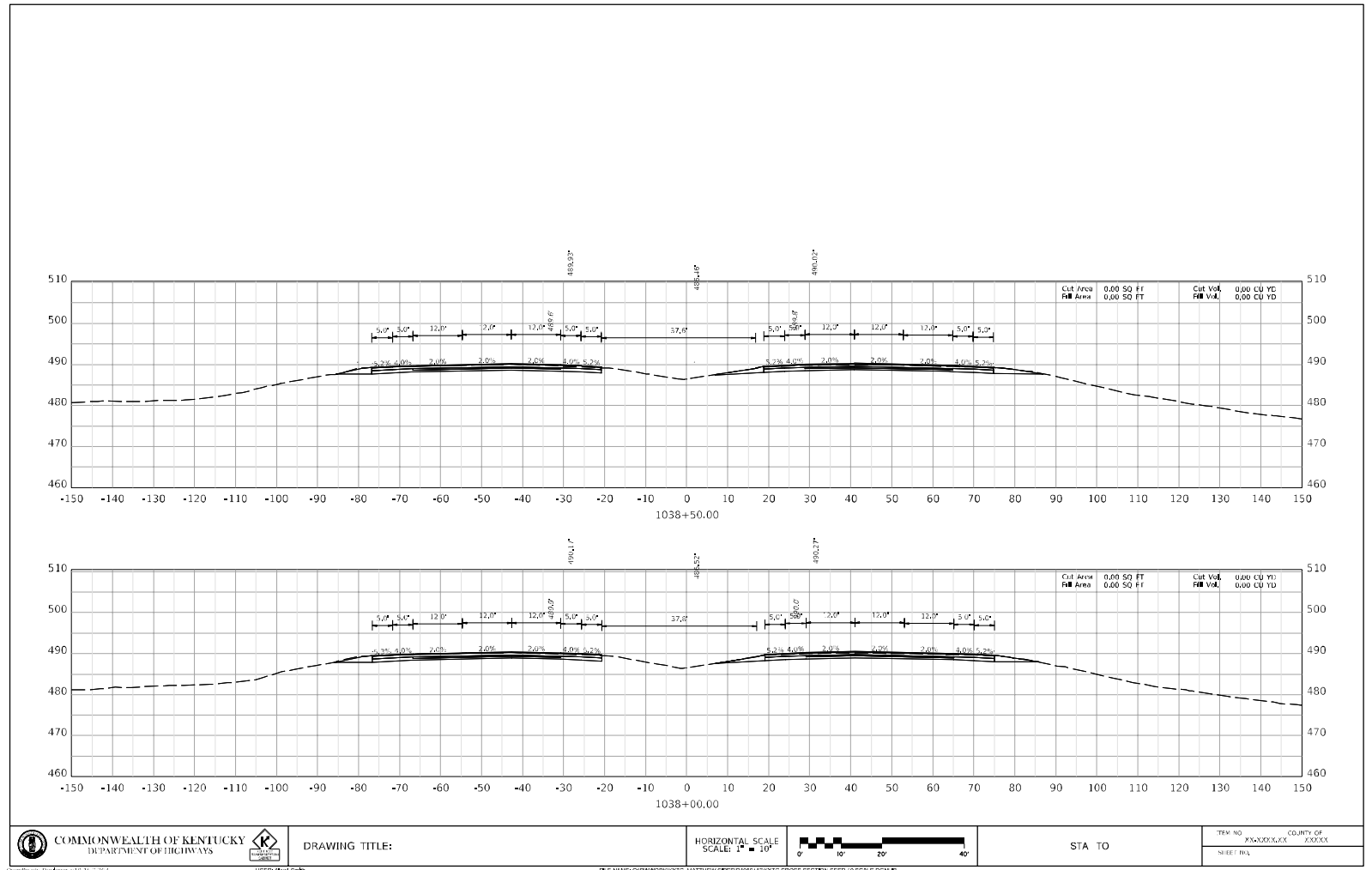
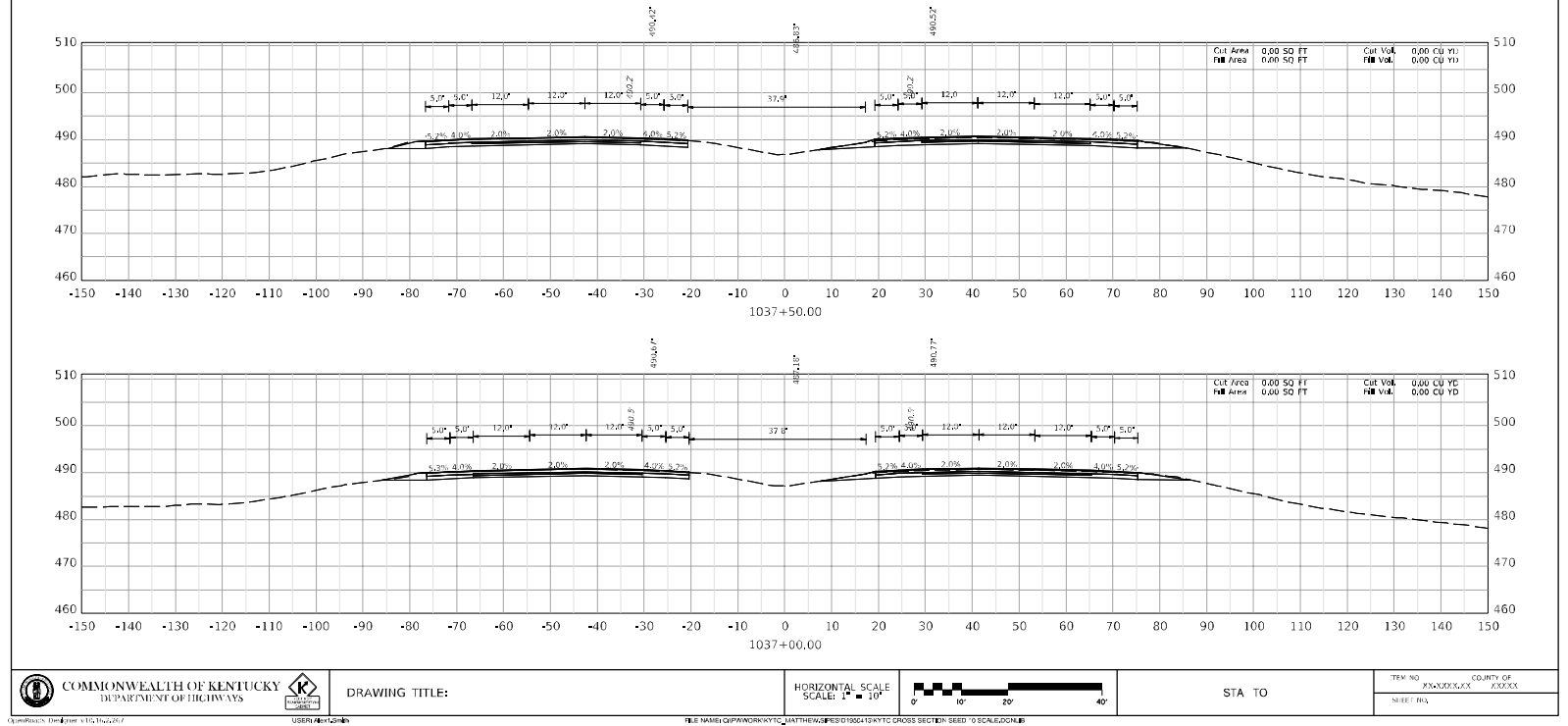


	DRAWING TITLE:	HORIZONTAL SCALE SCALE: 1" = 10'		STA TO	TRM NO	COUNTY OF
					XXXXXX	XXXXXX

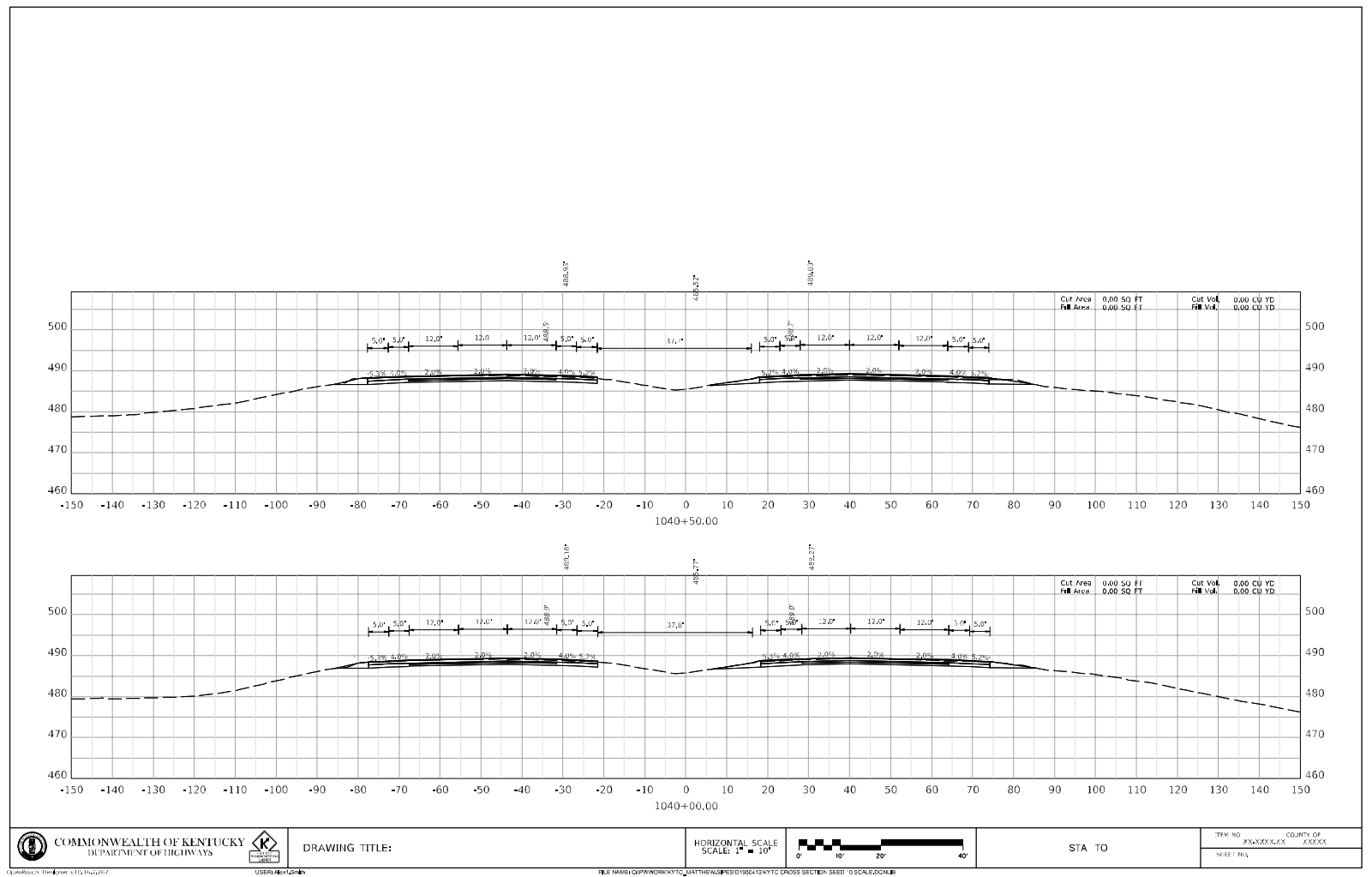
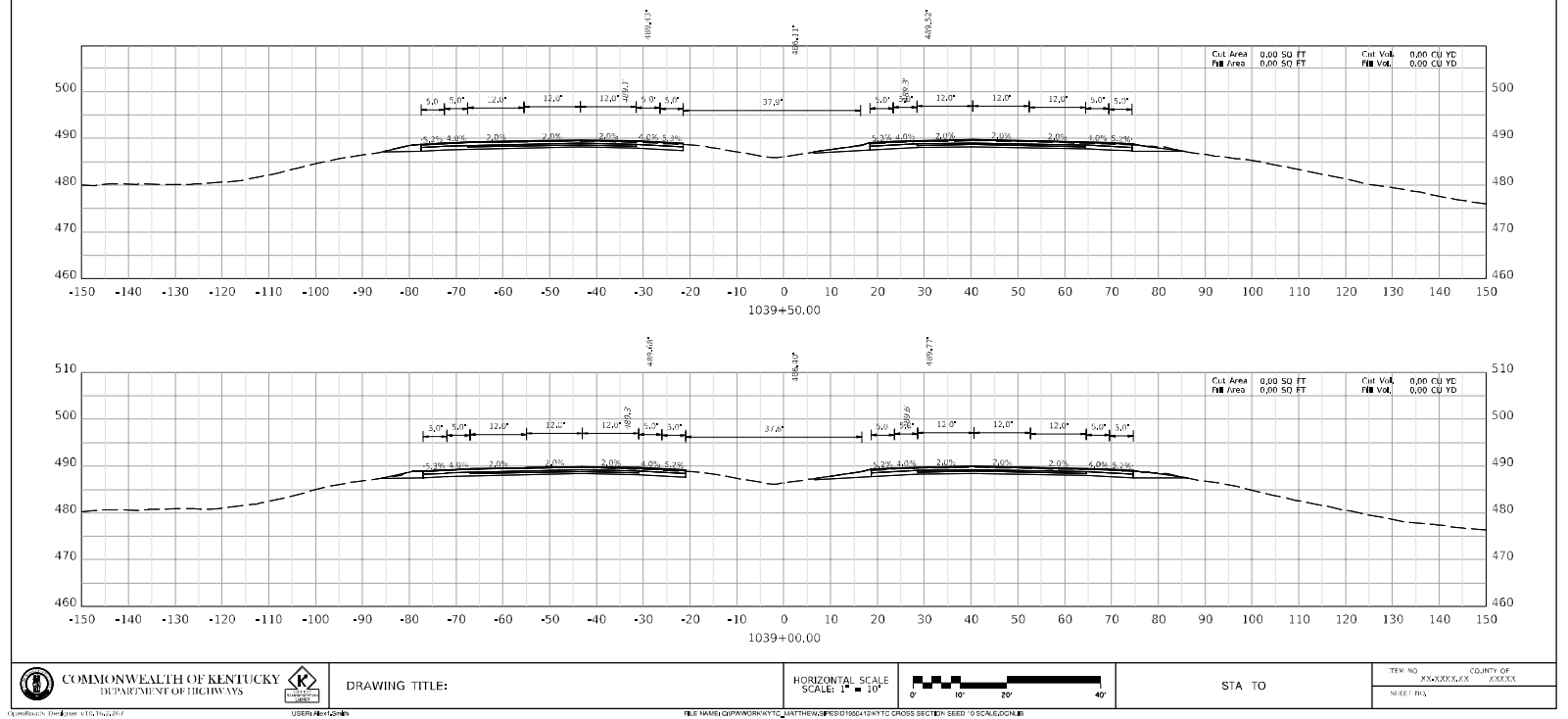
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

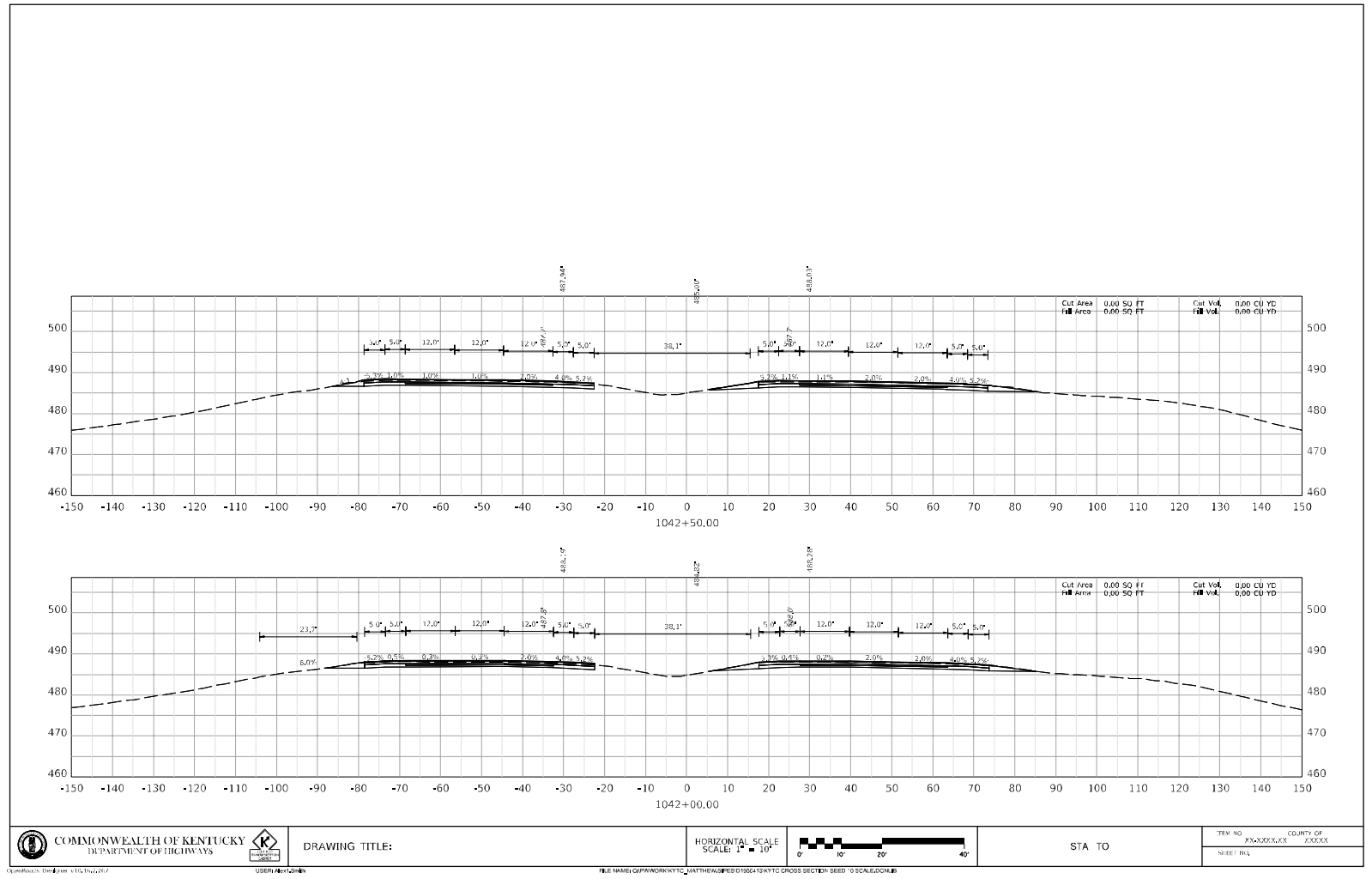
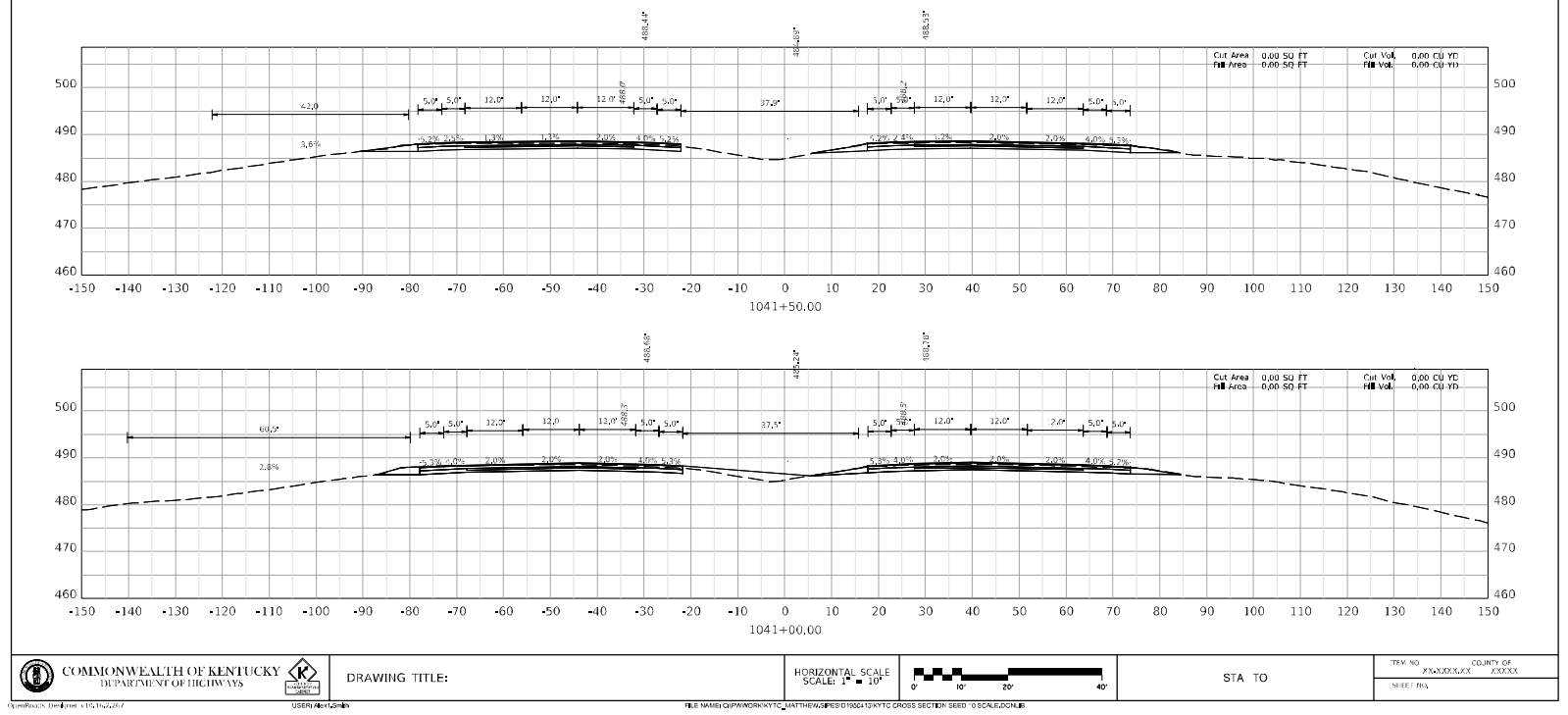
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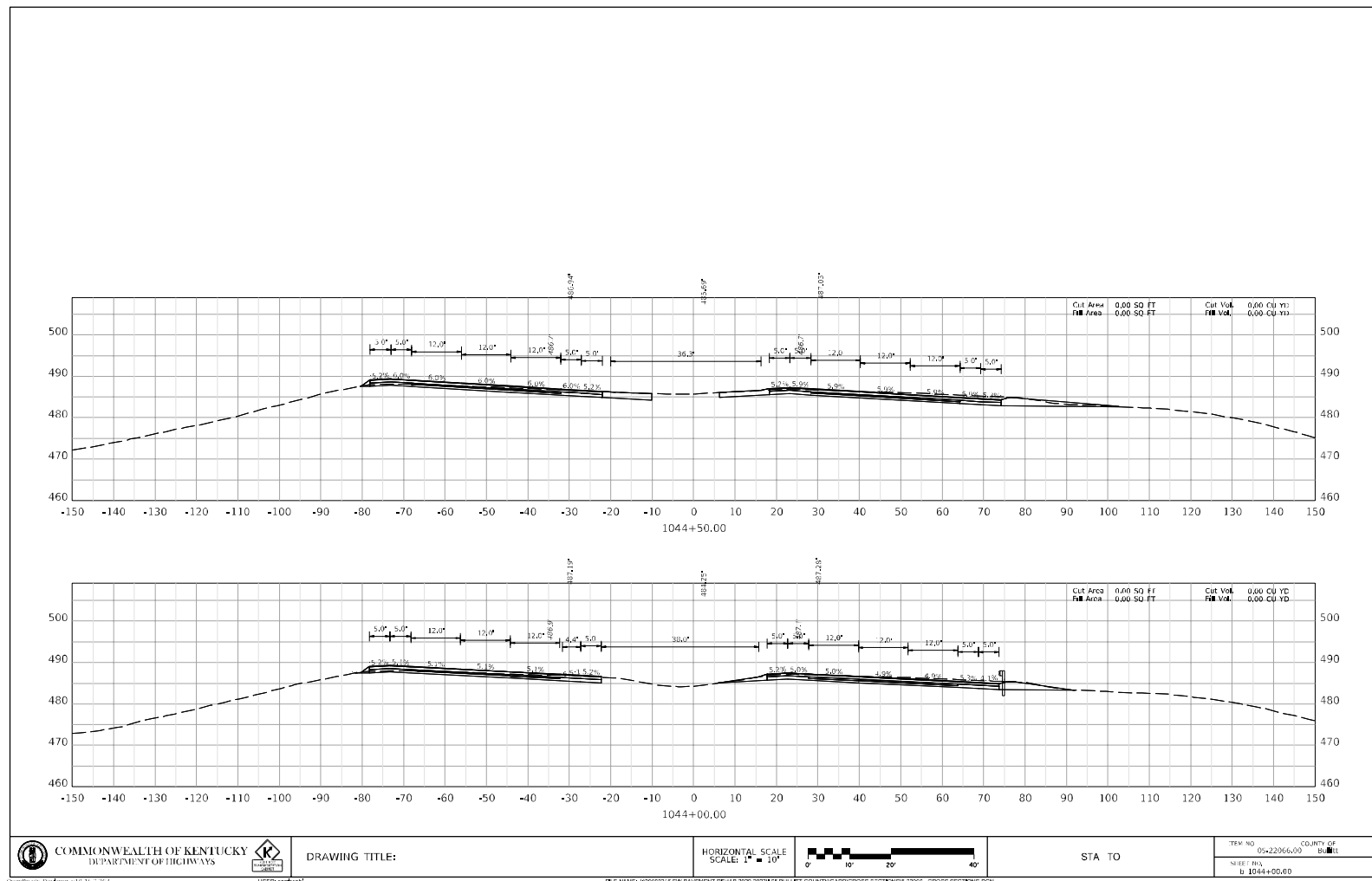
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



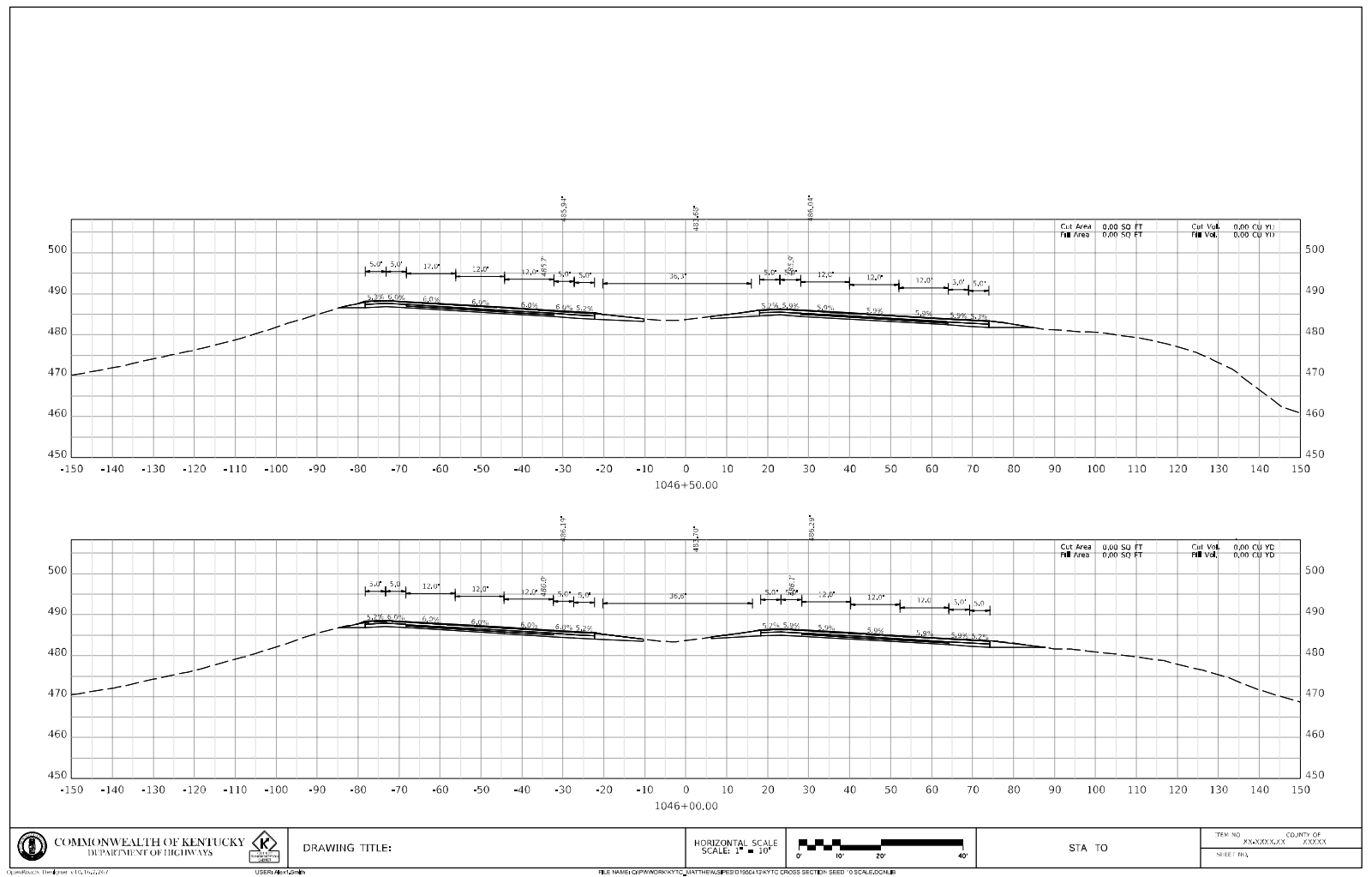
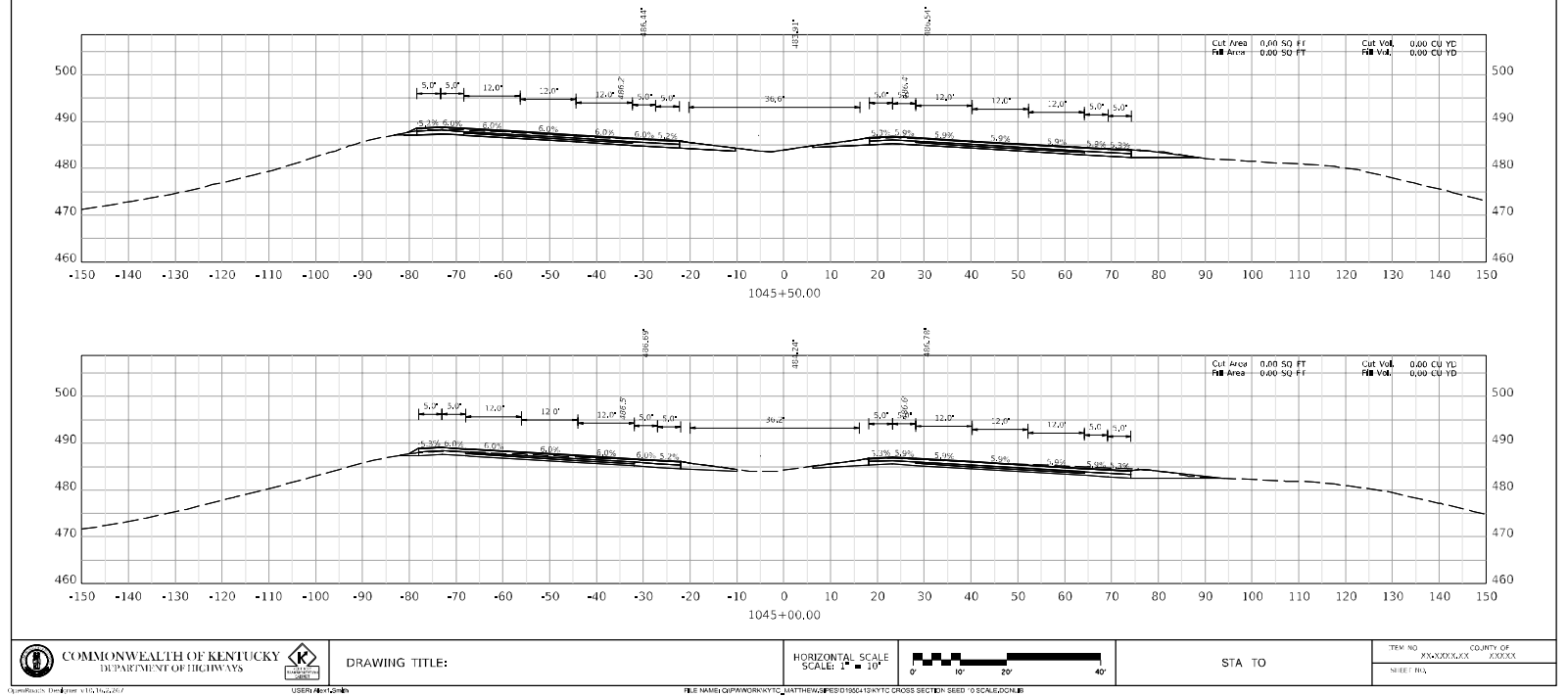
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

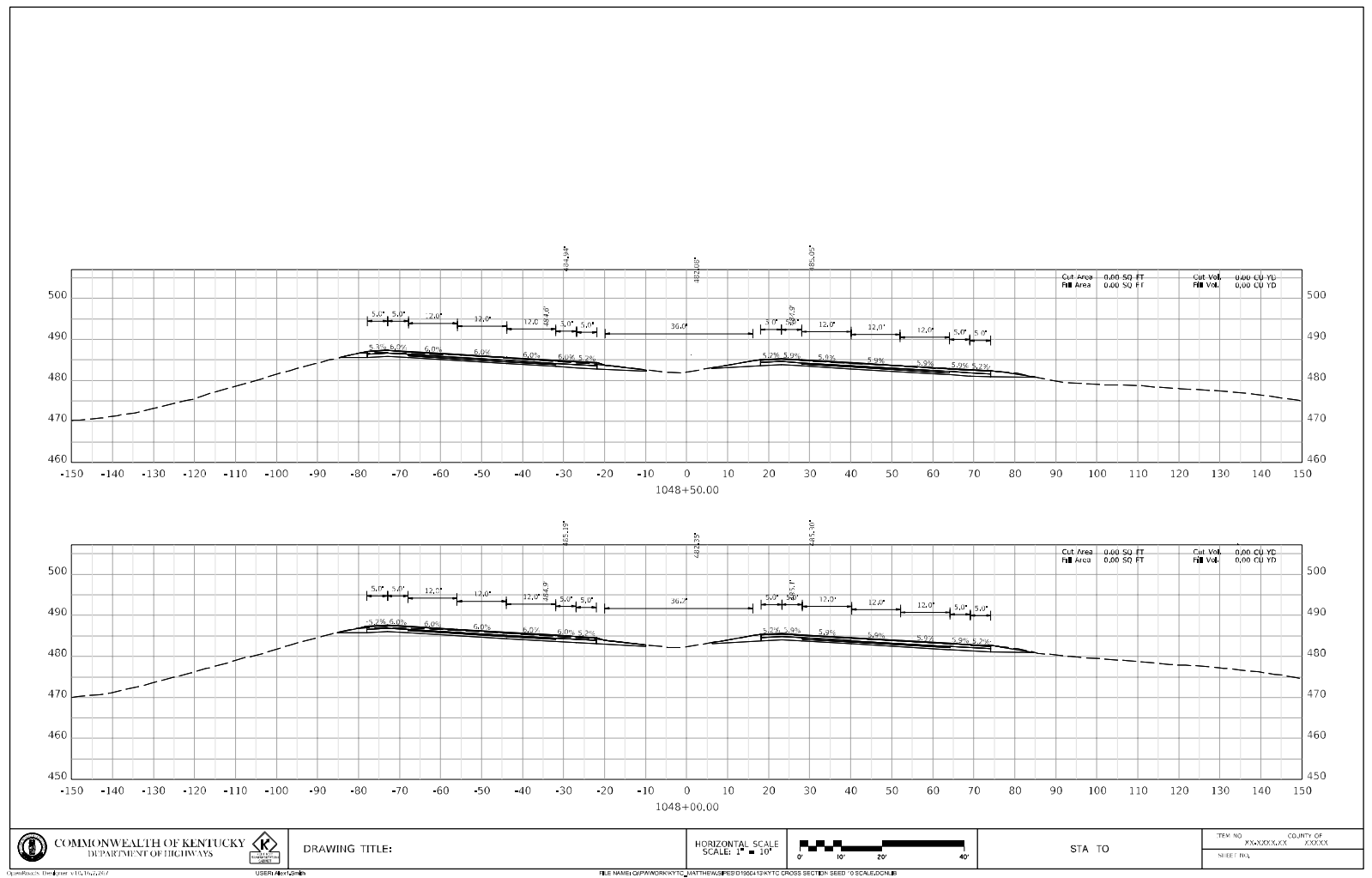
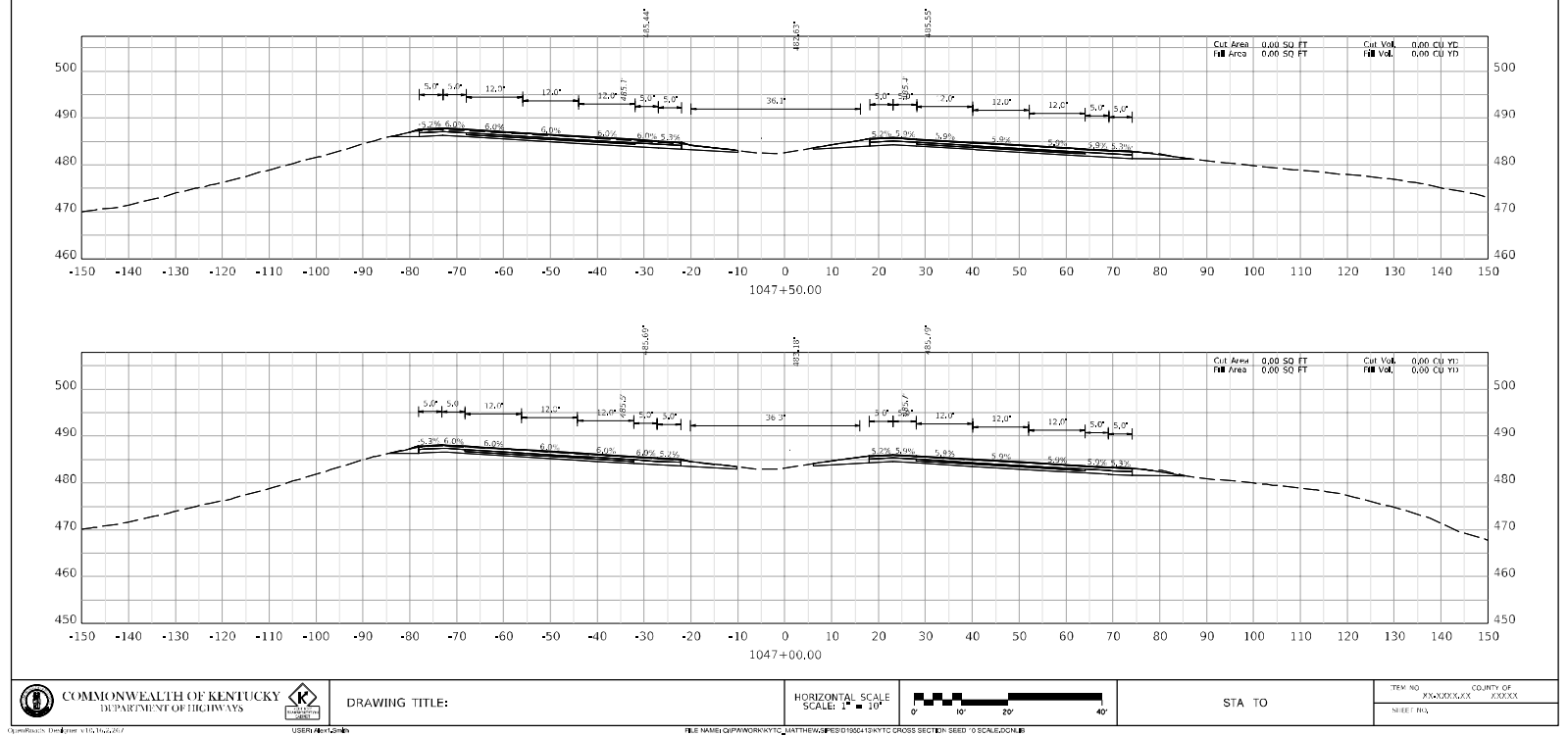




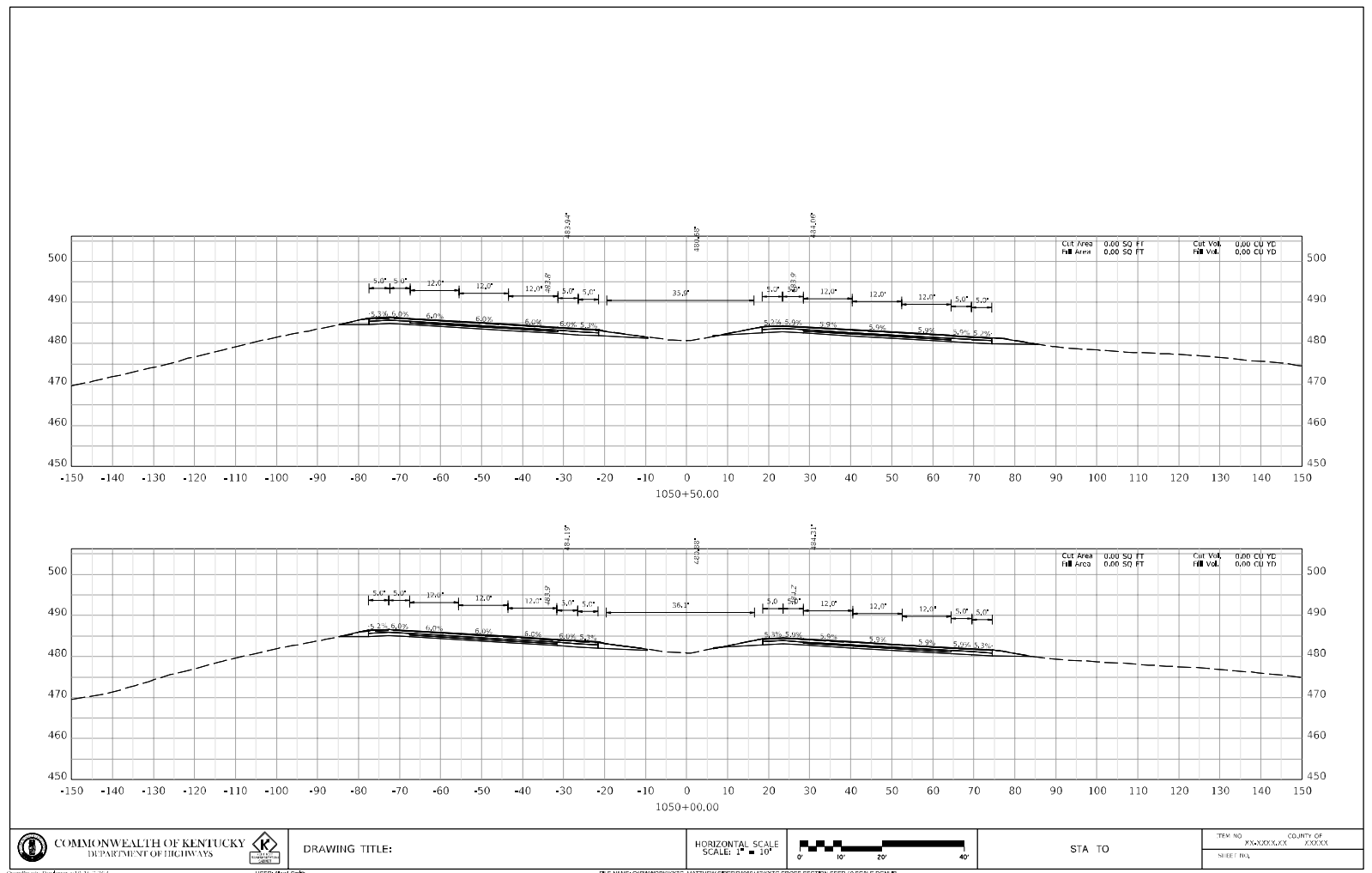
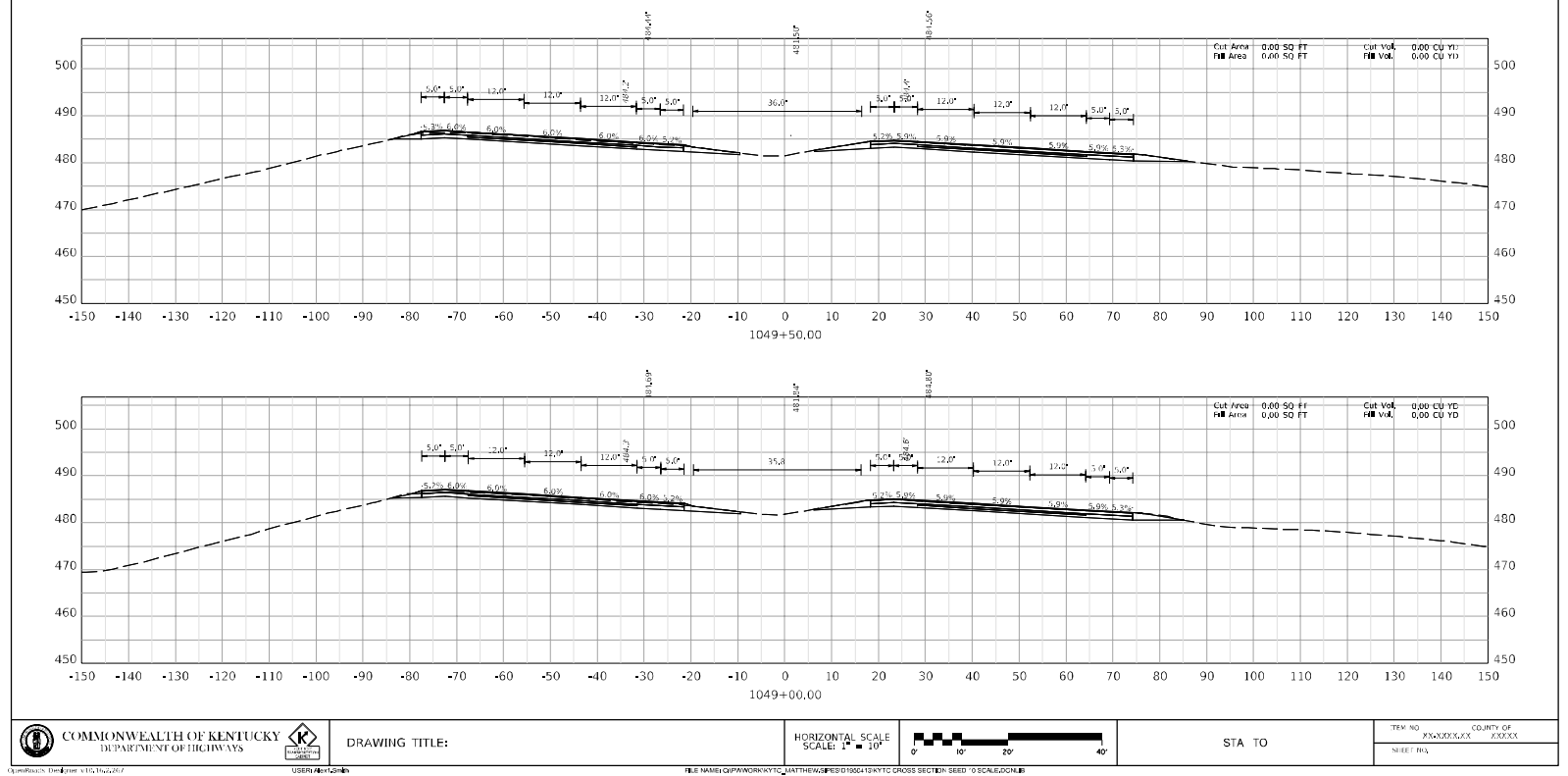


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





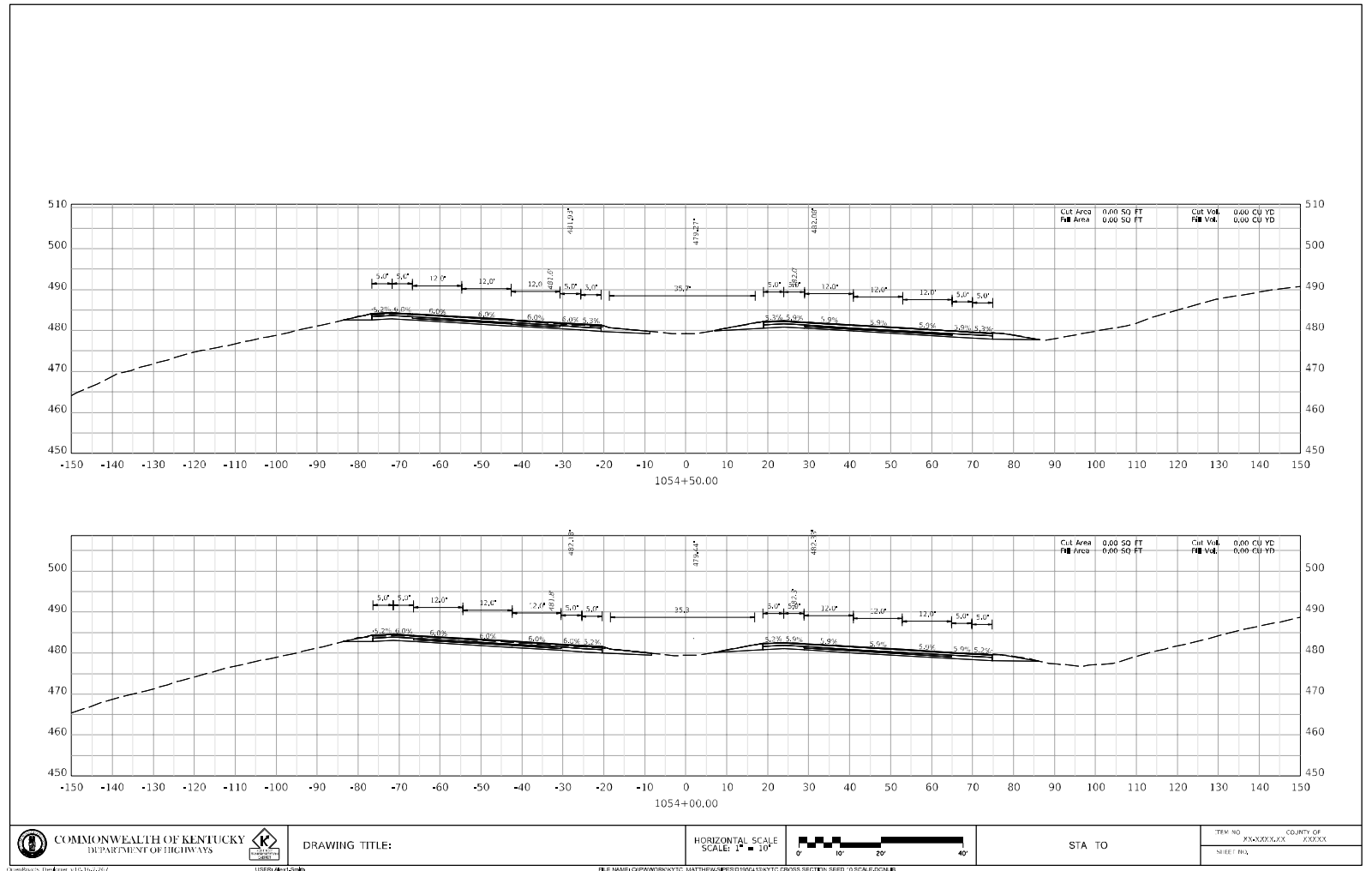
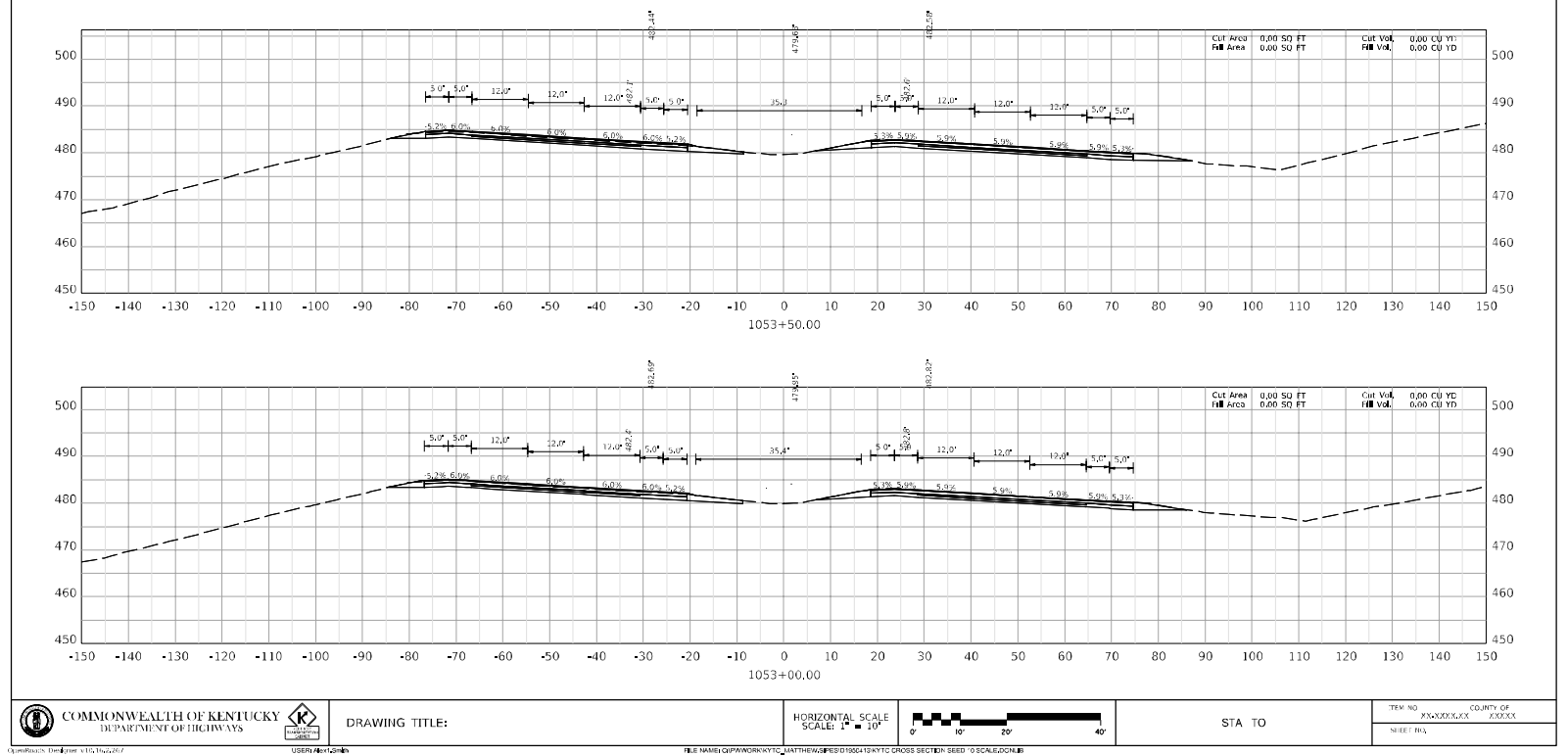
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



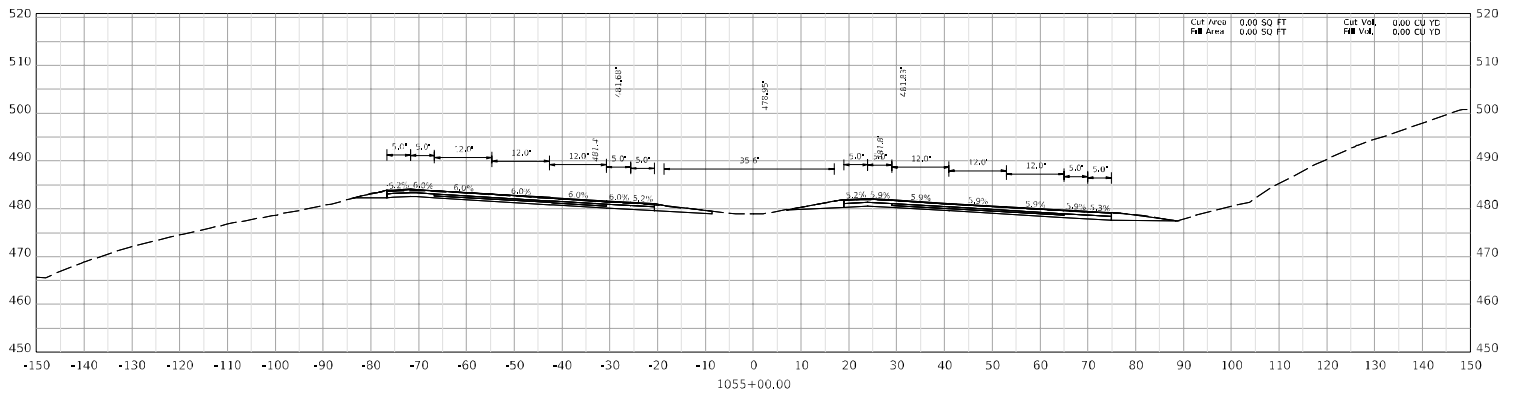
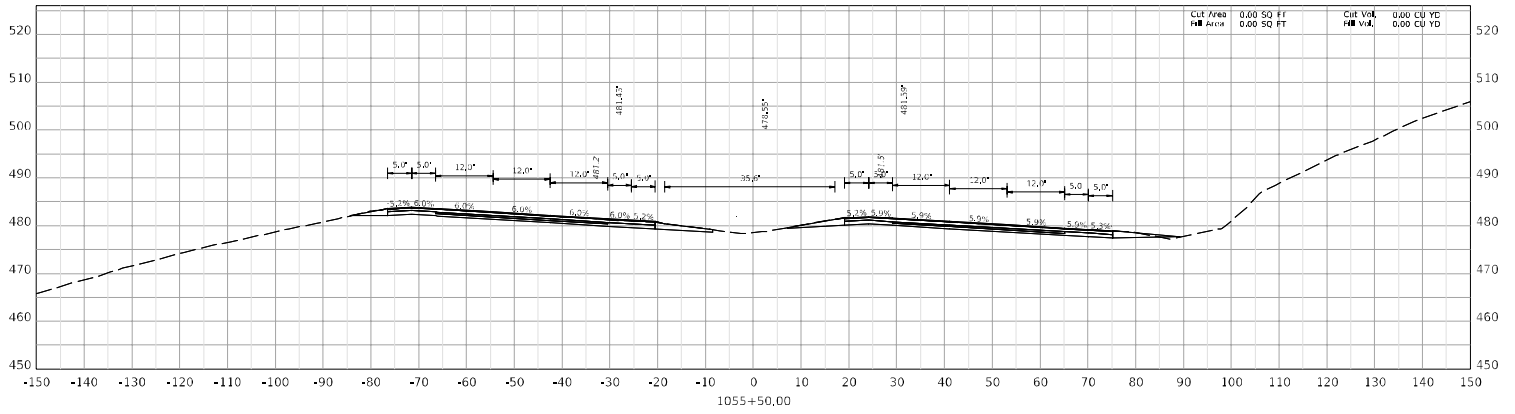




BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



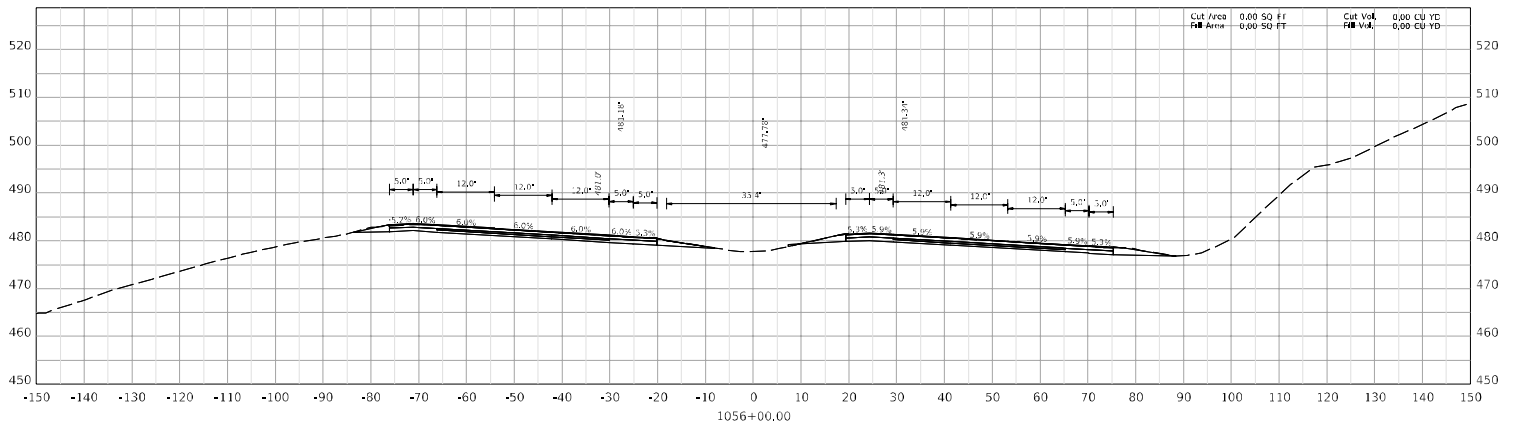
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TRM NO: COUNTY OF: SHEET RA:

C:\projects\Bullitt\121GR23D022\121GR23D022.dwg

USER: Matthew

FILE NAME: C:\PROJECTS\BULLITT\121GR23D022\121GR23D022.dwg CROSS SECTION: 1055+00.00

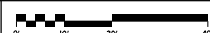


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



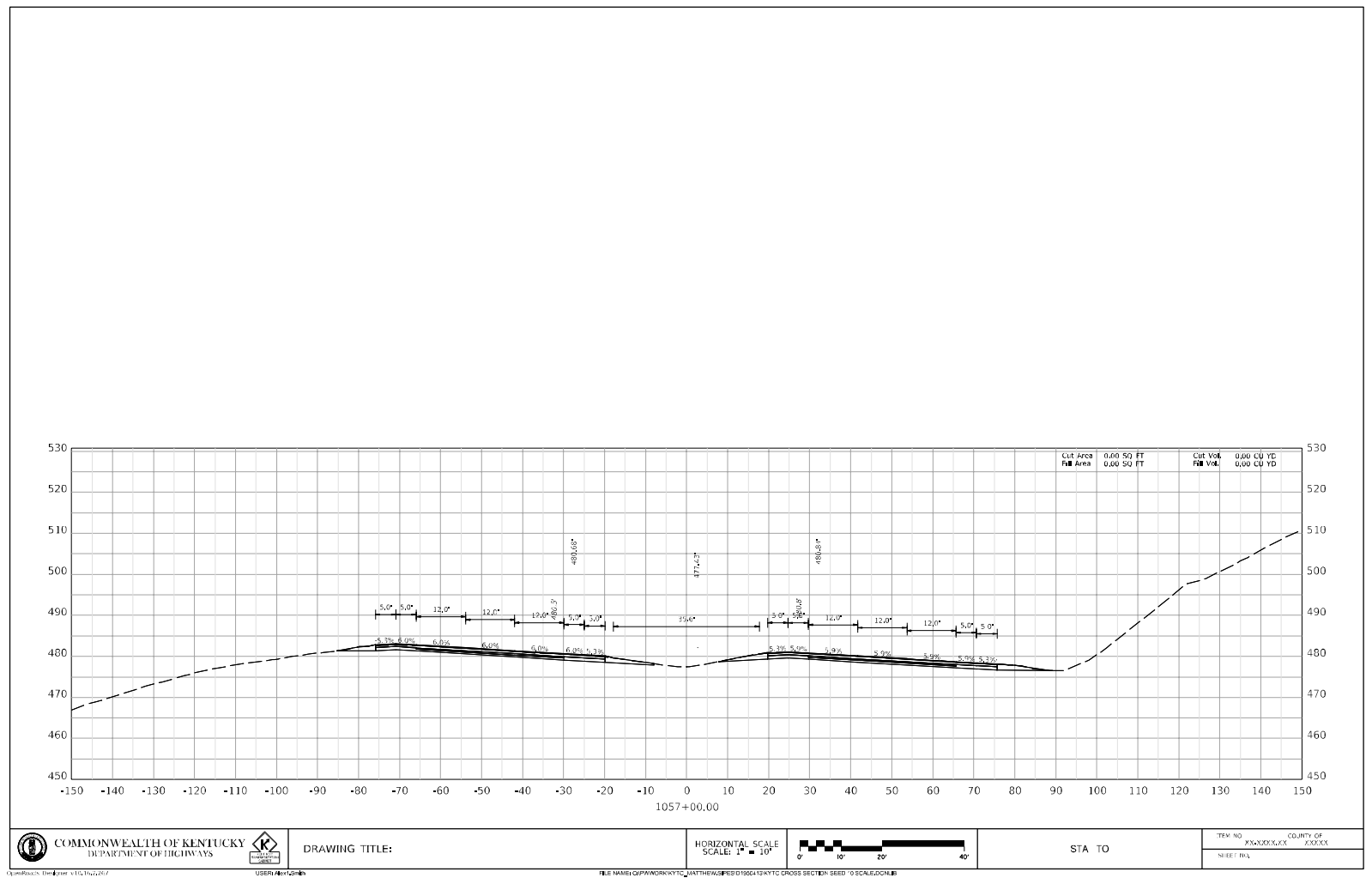
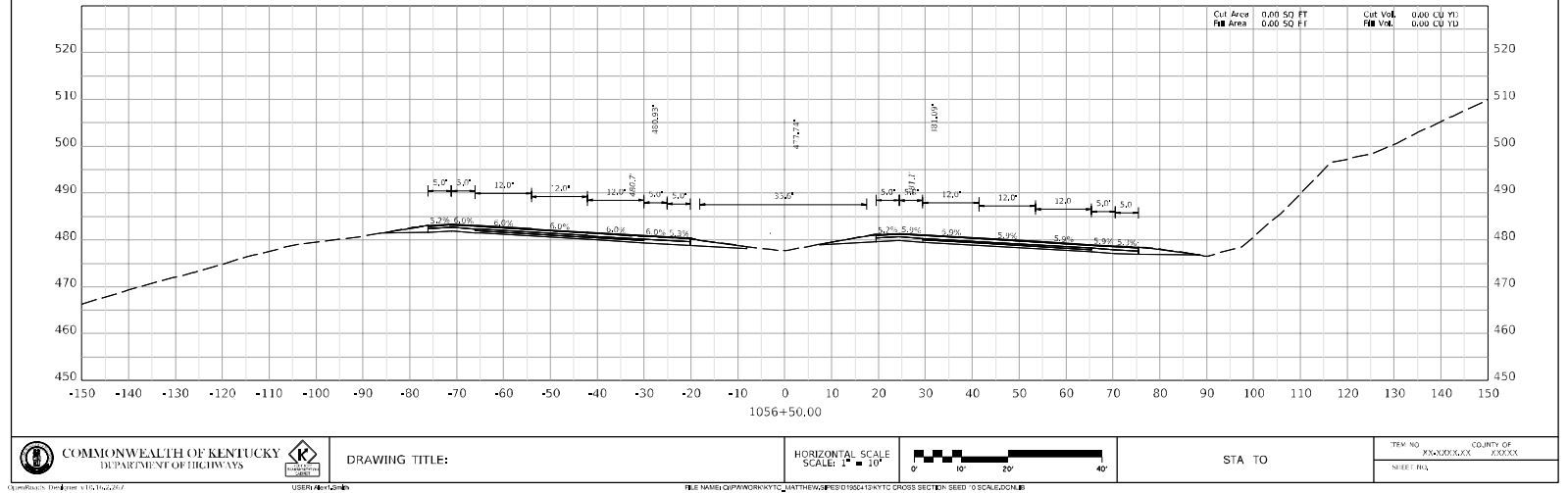
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TRM NO: COUNTY OF: SHEET RA:

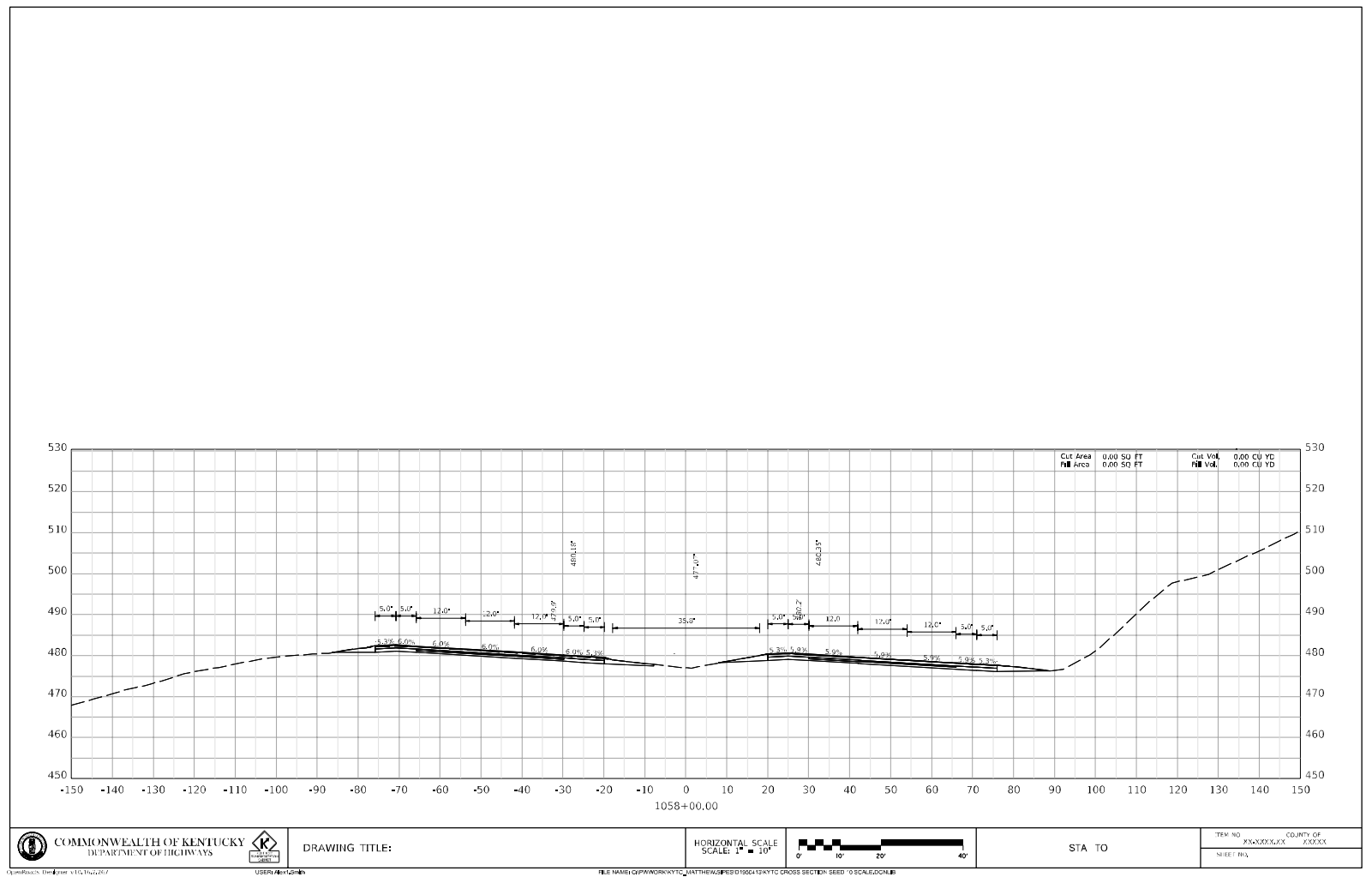
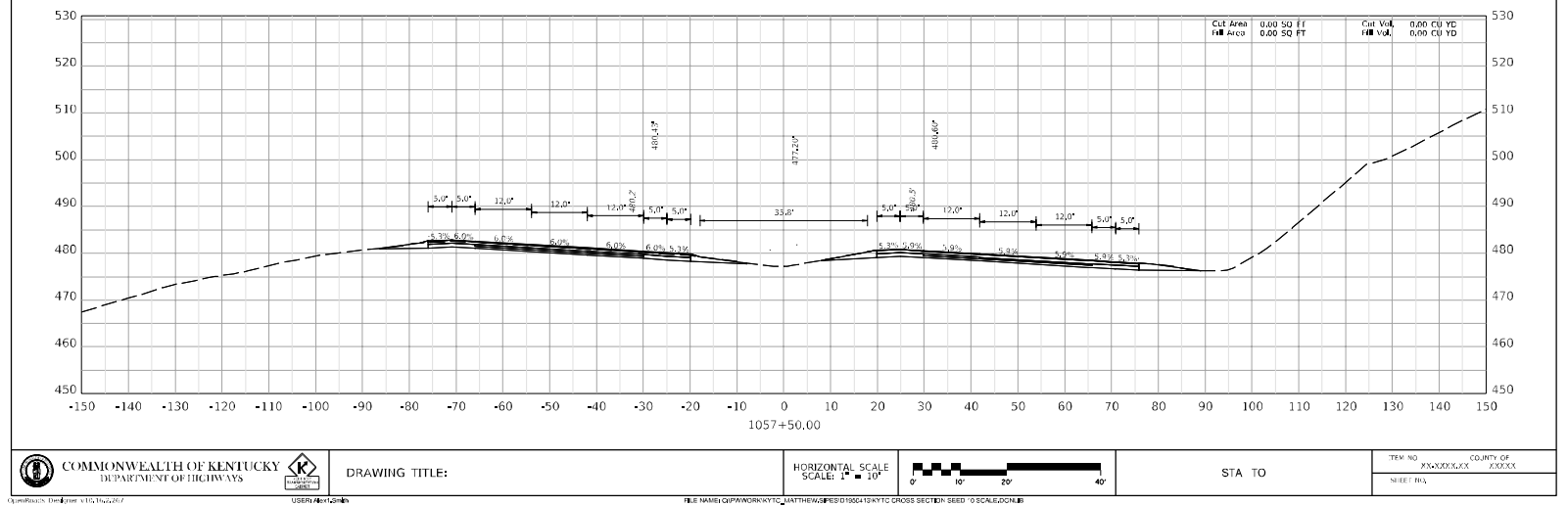
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USER: Matthew

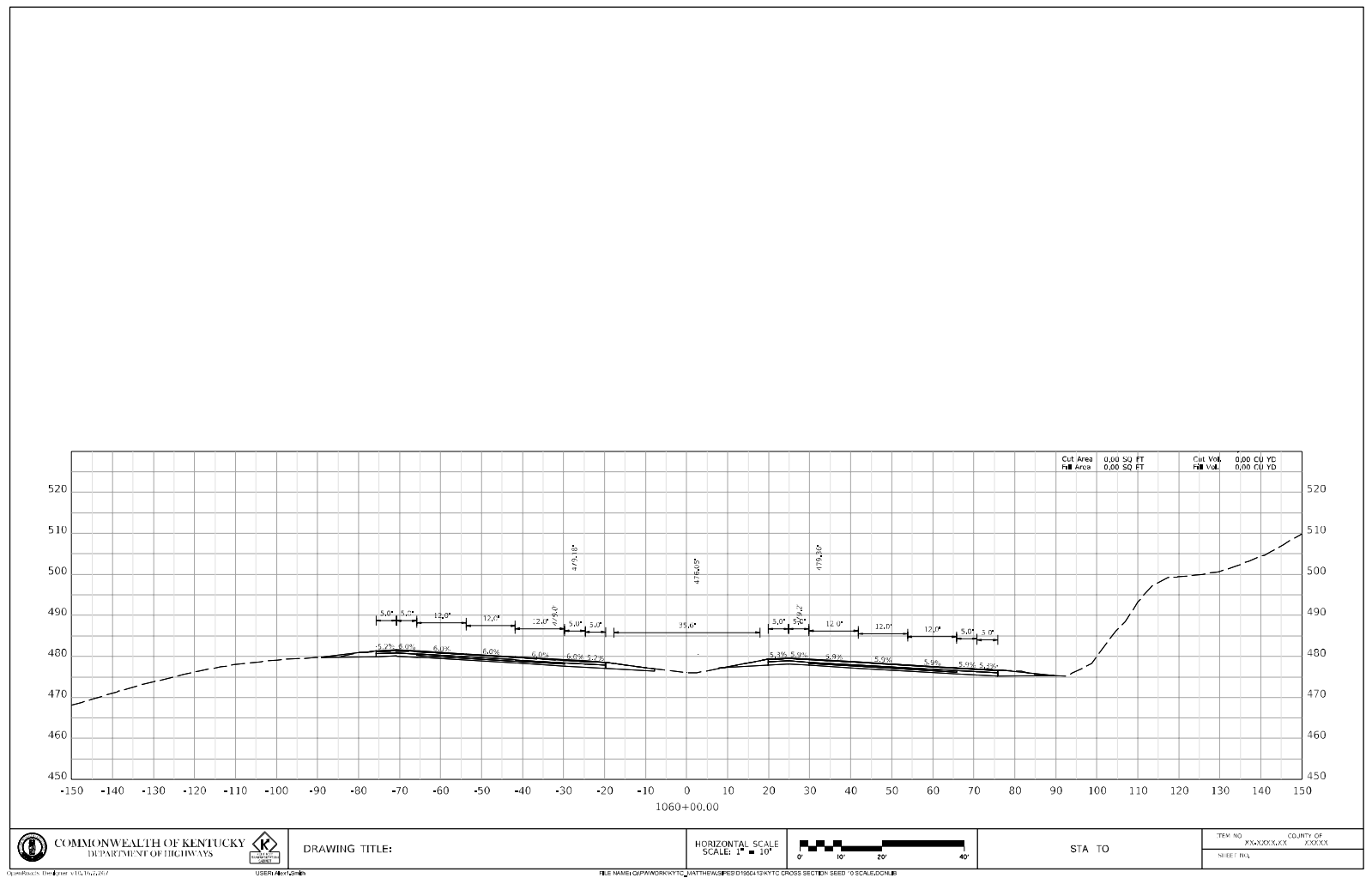
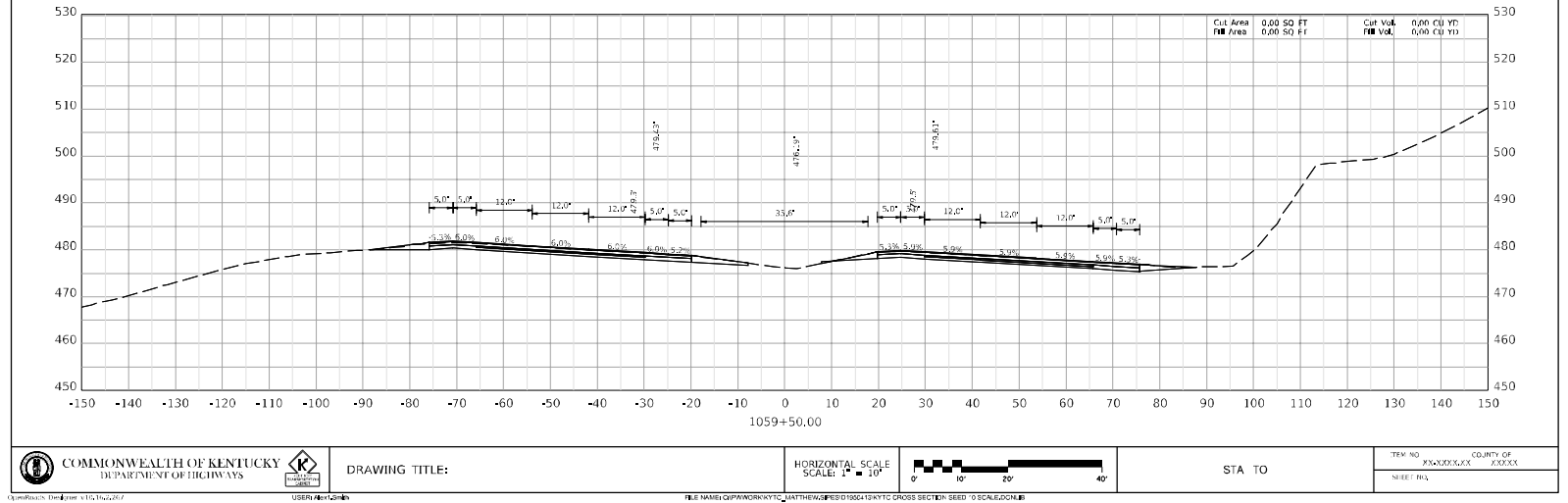
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BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

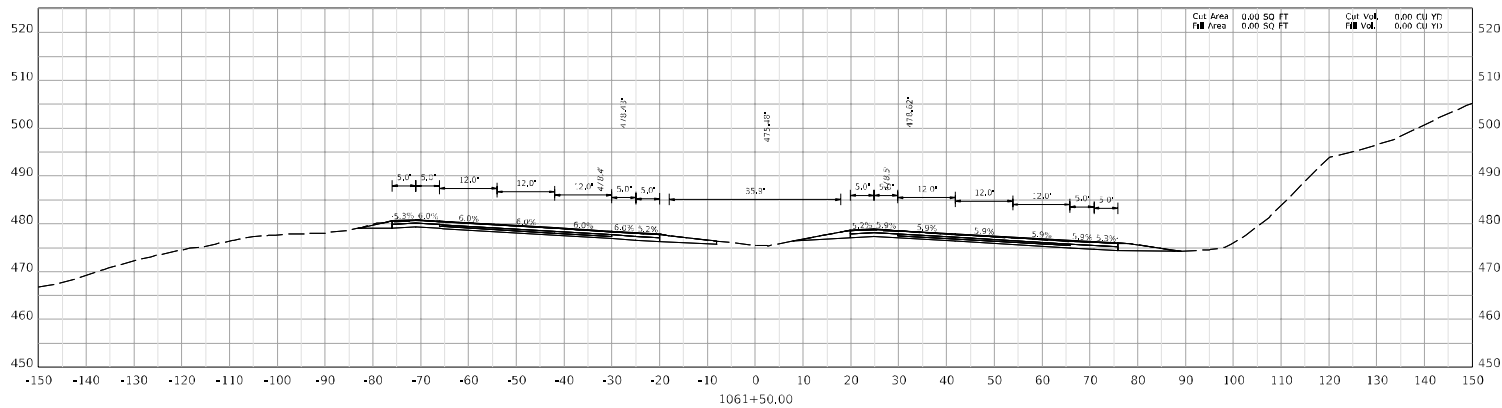
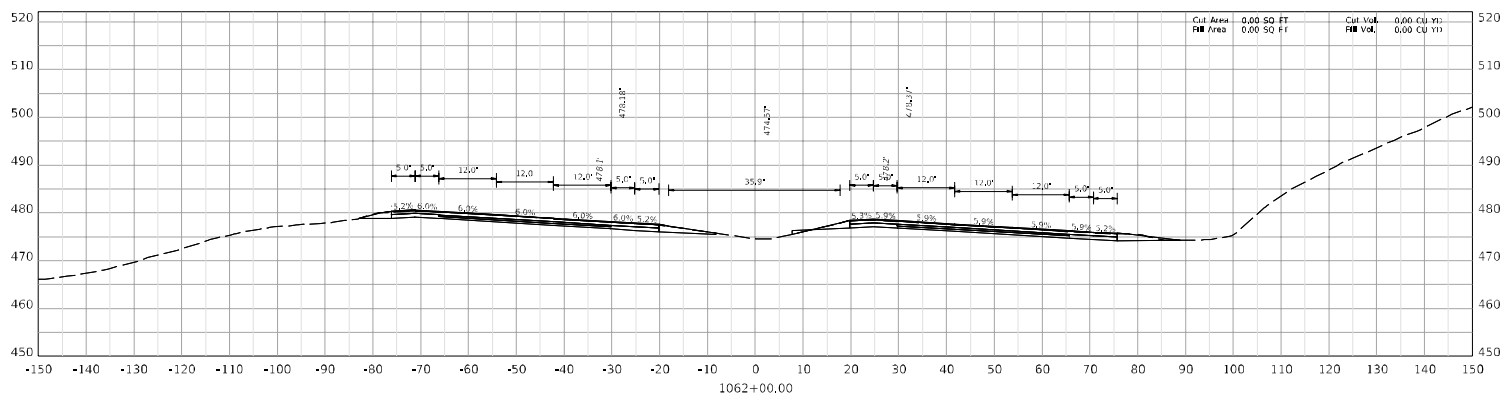
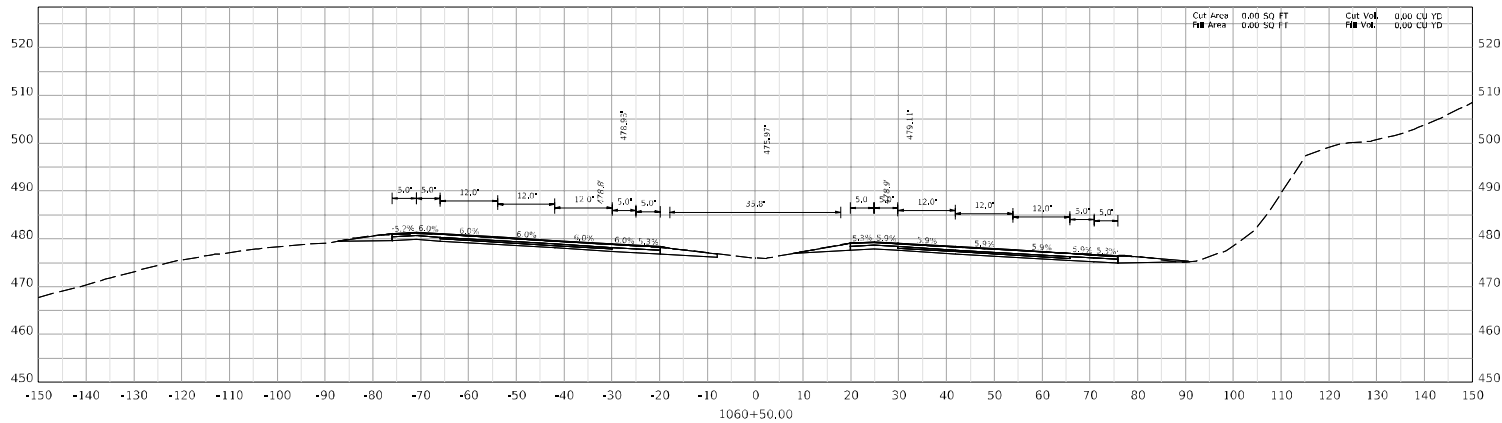
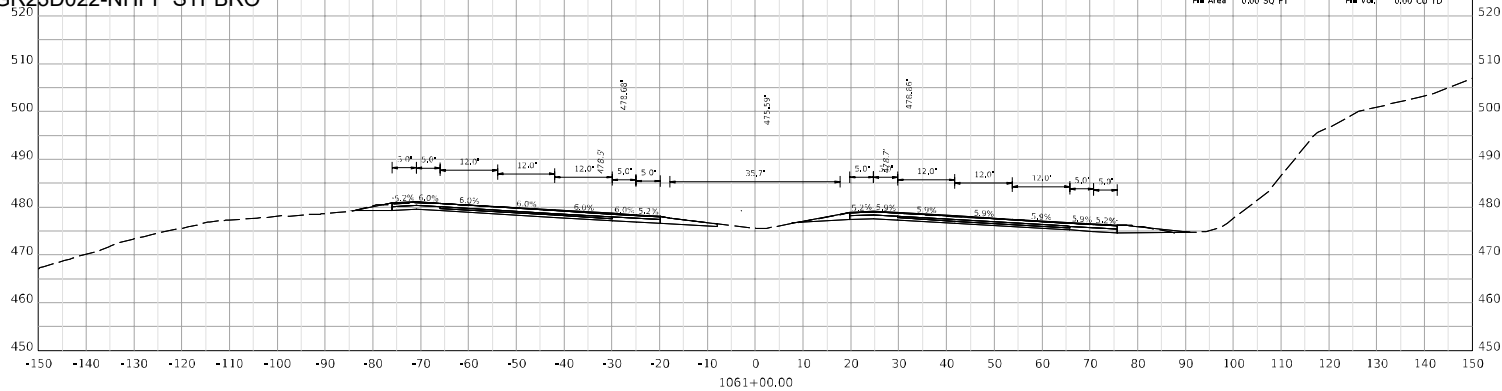






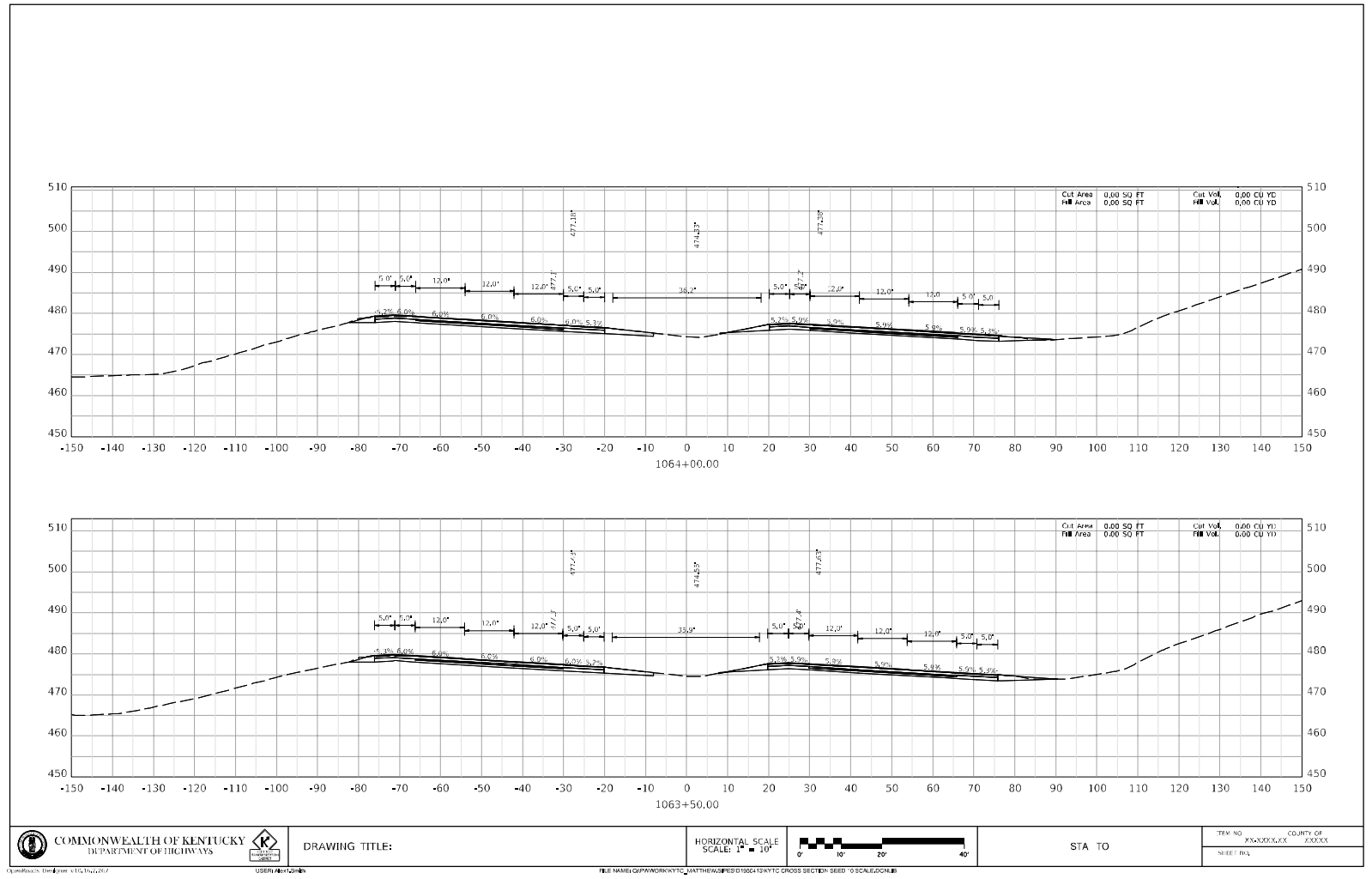
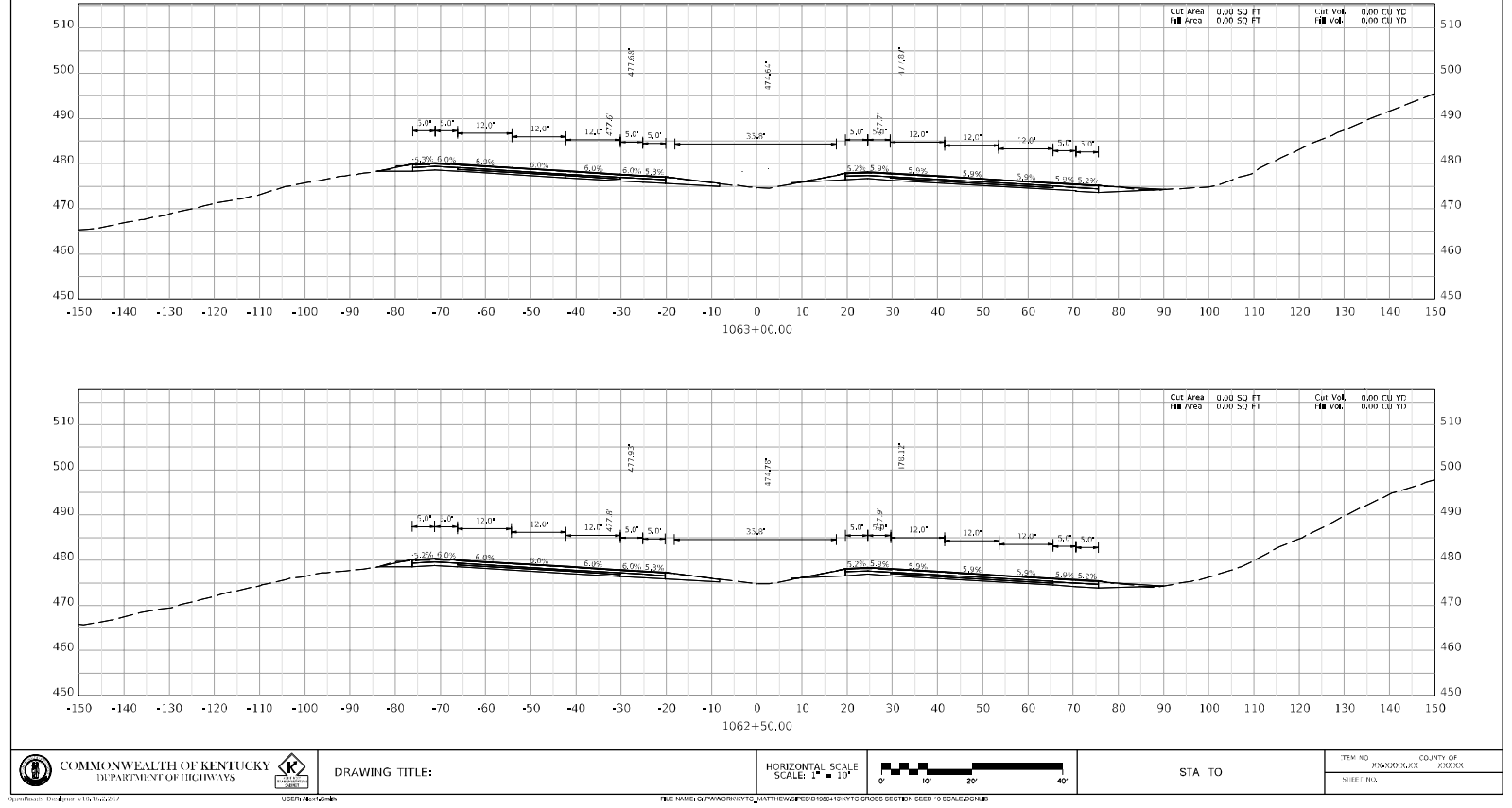
BULLITT - HARDIN COUNTIES

121GR23D022-NHPP STPBRO

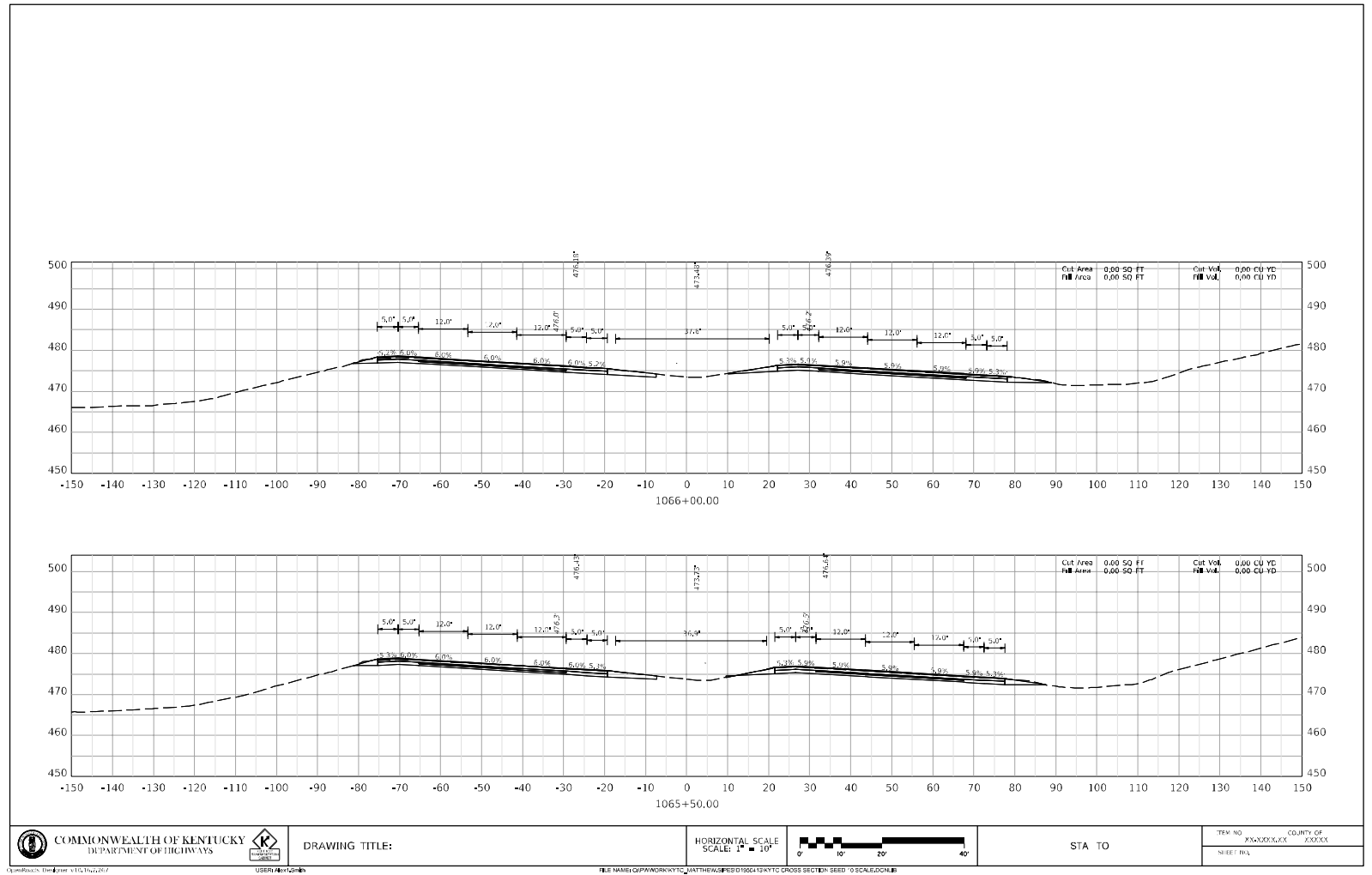
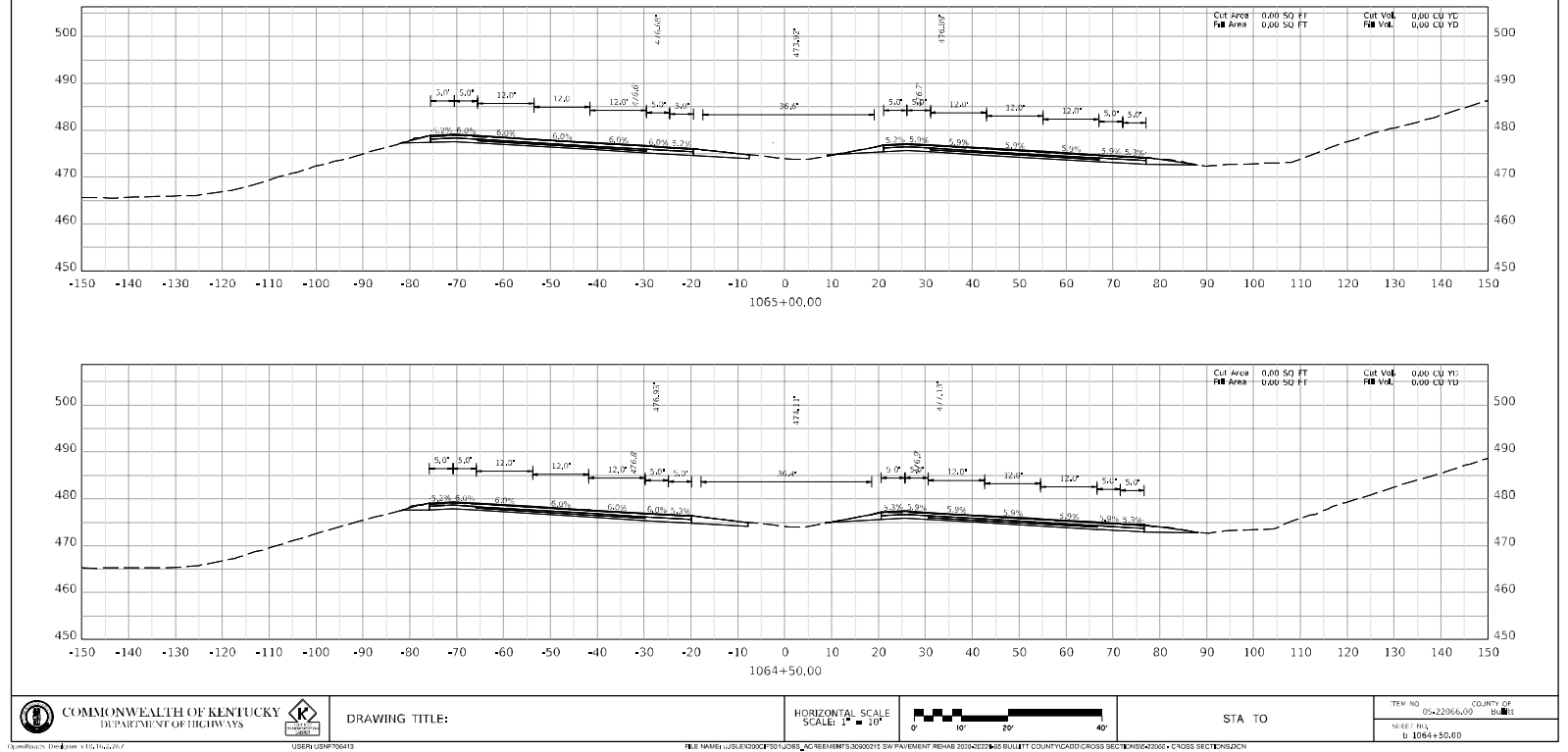




BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

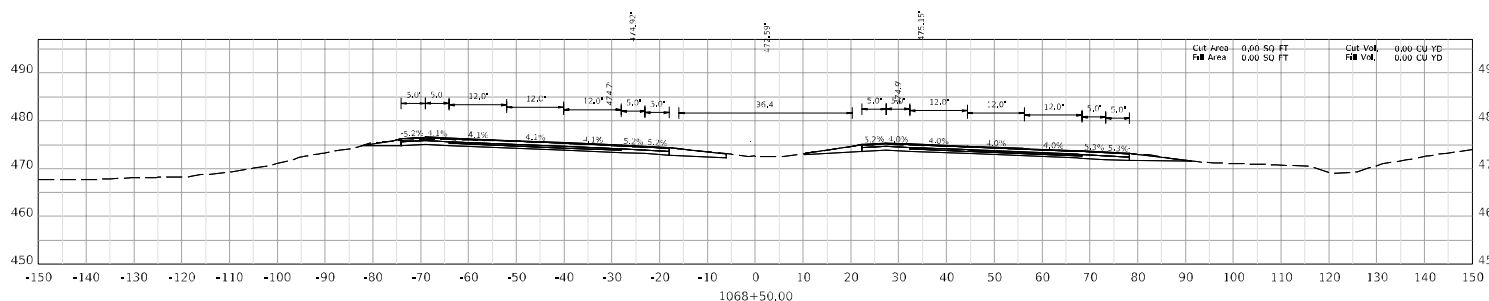
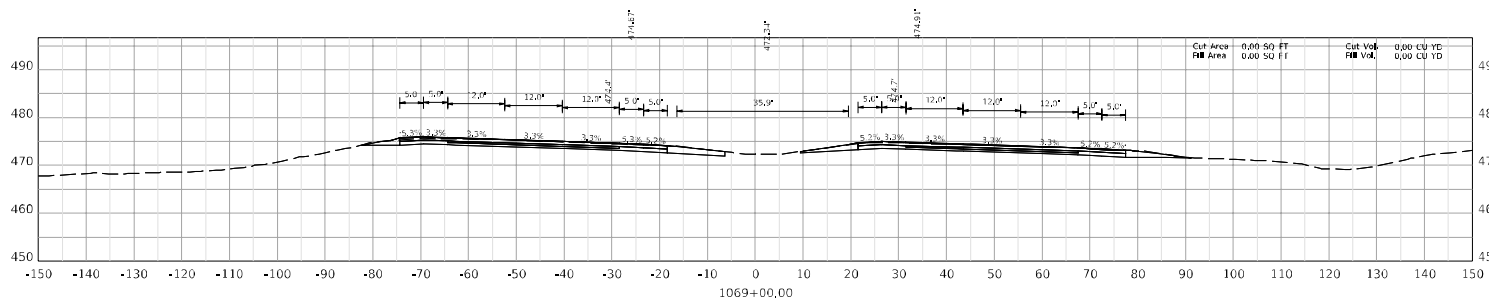


BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

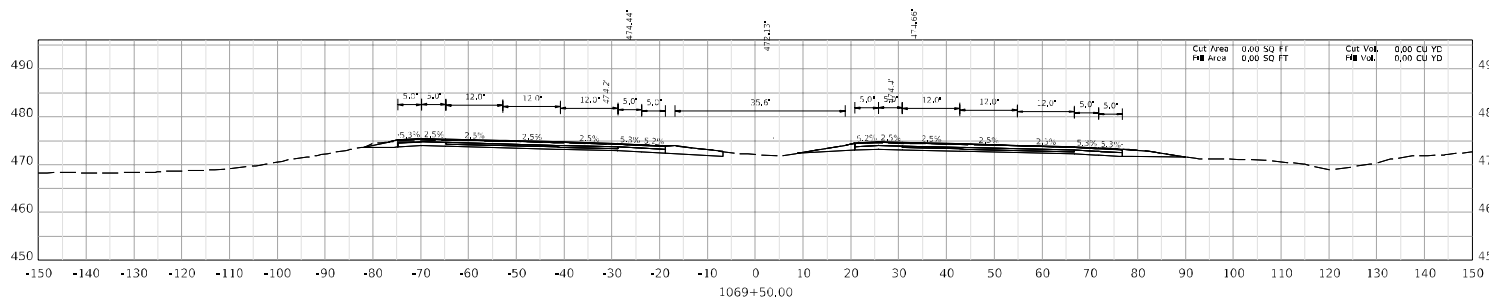
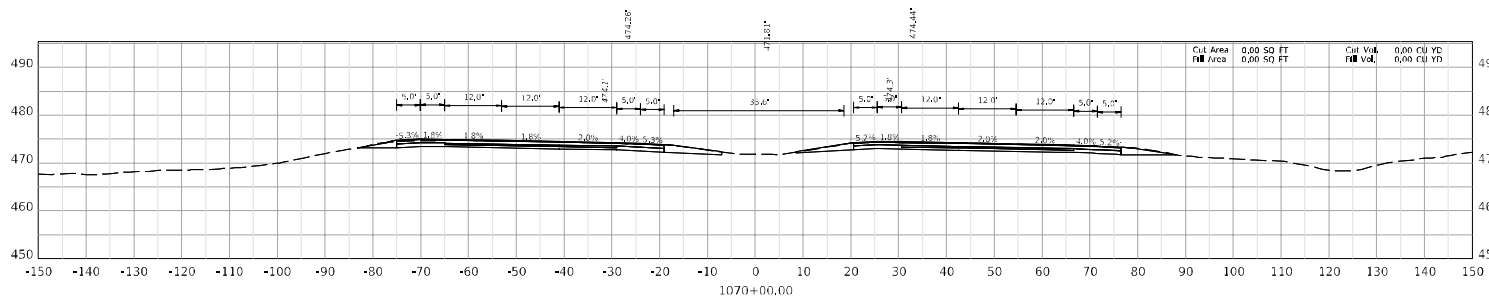
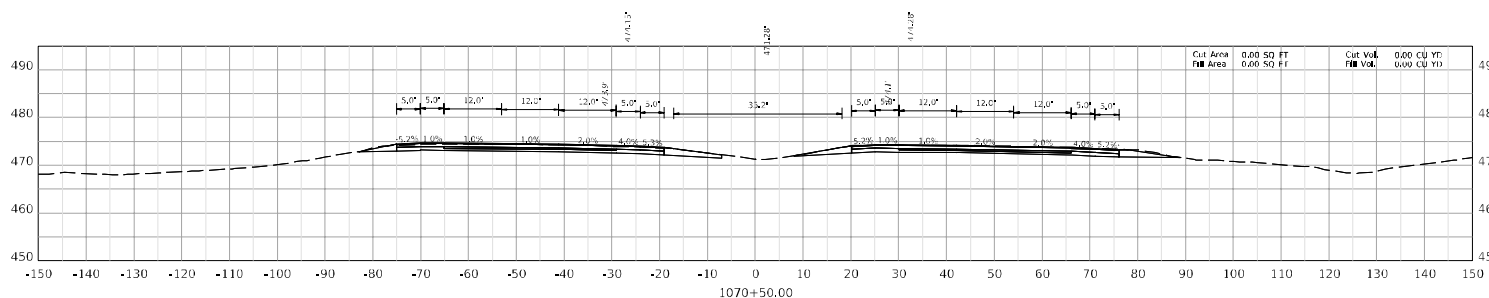
DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'

STA TO

TRM NO: XXXXXXXX  
SHEET RA: XXXXX

COUNTY OF: XXXXX



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'

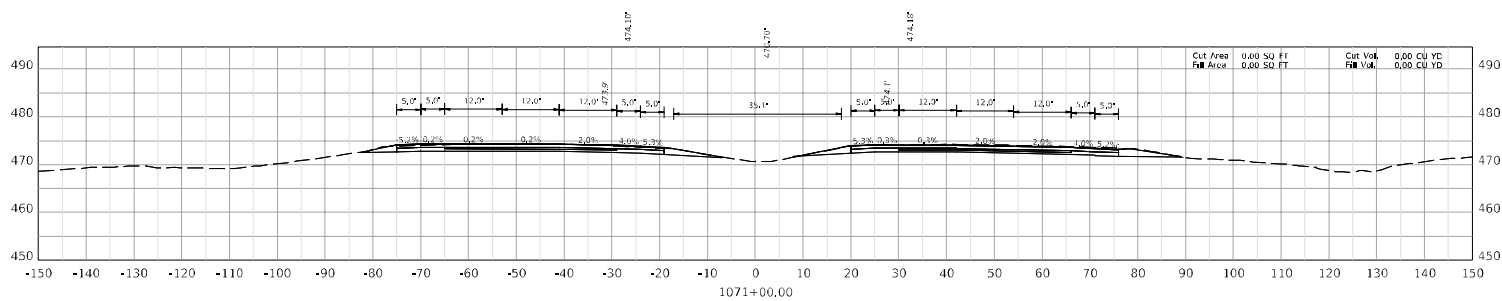
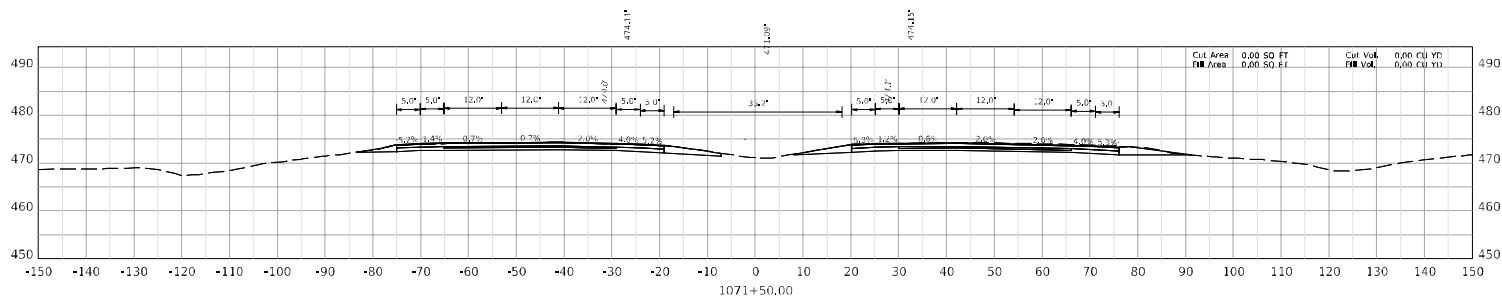
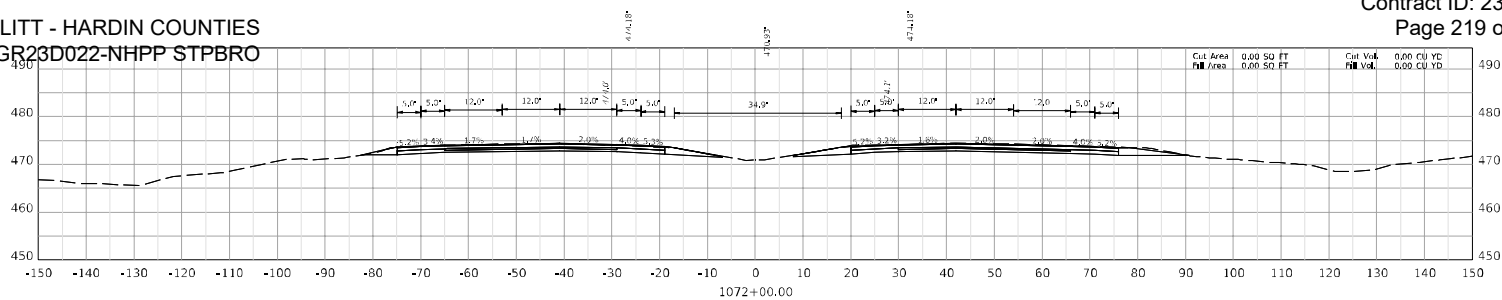
STA TO

TRM NO: XXXXXXXX  
SHEET RA: XXXXX

COUNTY OF: XXXXX

BULLITT - HARDIN COUNTIES

121GR23D022-NHPP STPBRO

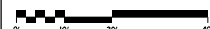


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



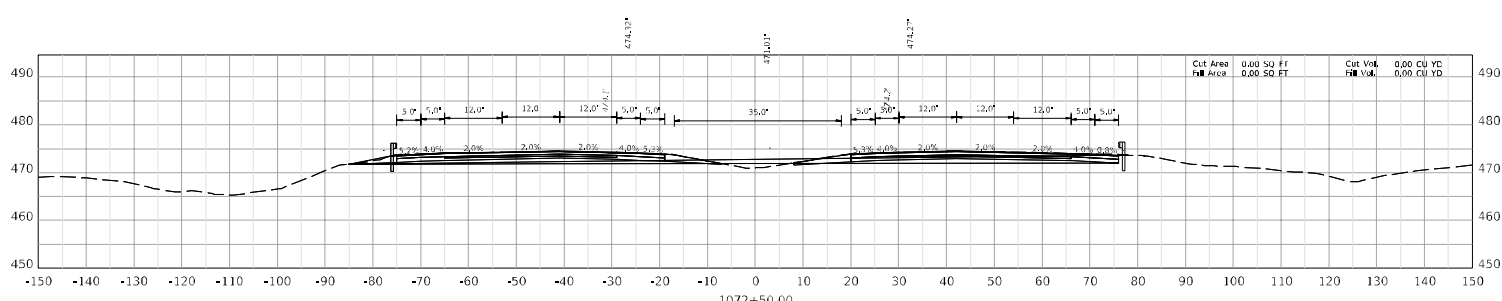
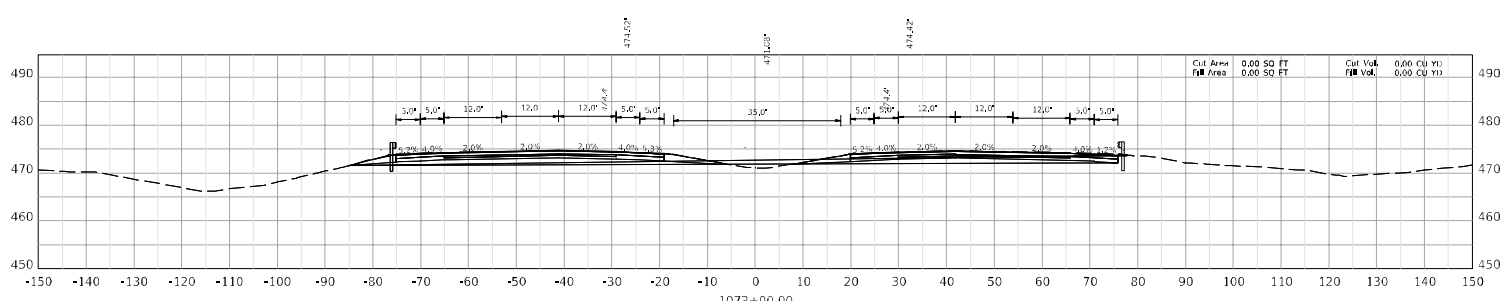
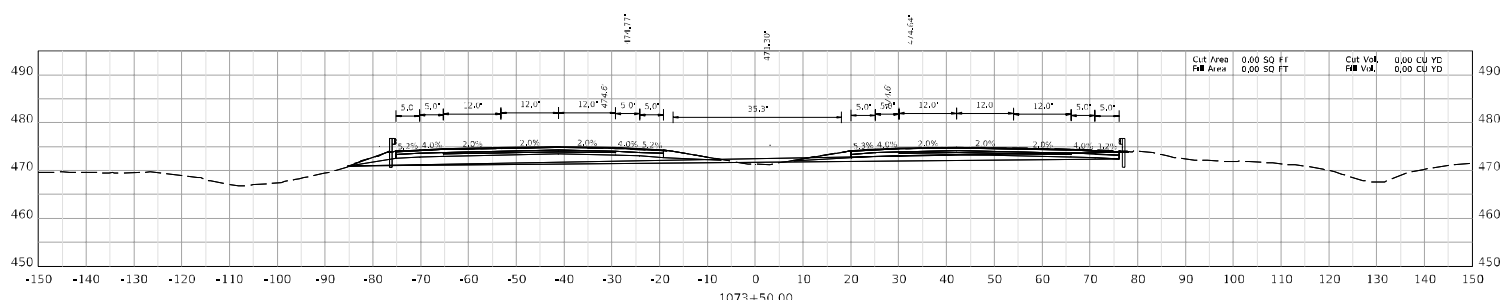
STA TO

TRM NO: COUNTY OF: KXXXXXX  
SHEET RA: KXXXXXX

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USER: KDOT\KDOT

FILE NAME: G:\P\WORK\121GR23D022-NHPP STPBRO CROSS SECTION SED TO SCALE.DGN



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



STA TO

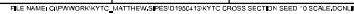
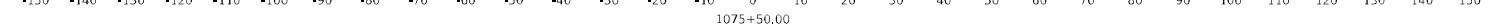
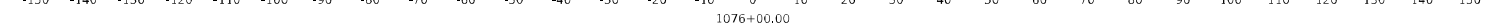
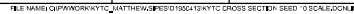
TRM NO: COUNTY OF: KXXXXXX  
SHEET RA: KXXXXXX

\\p000001\Drawings\121GR23D022-NHPP STPBRO

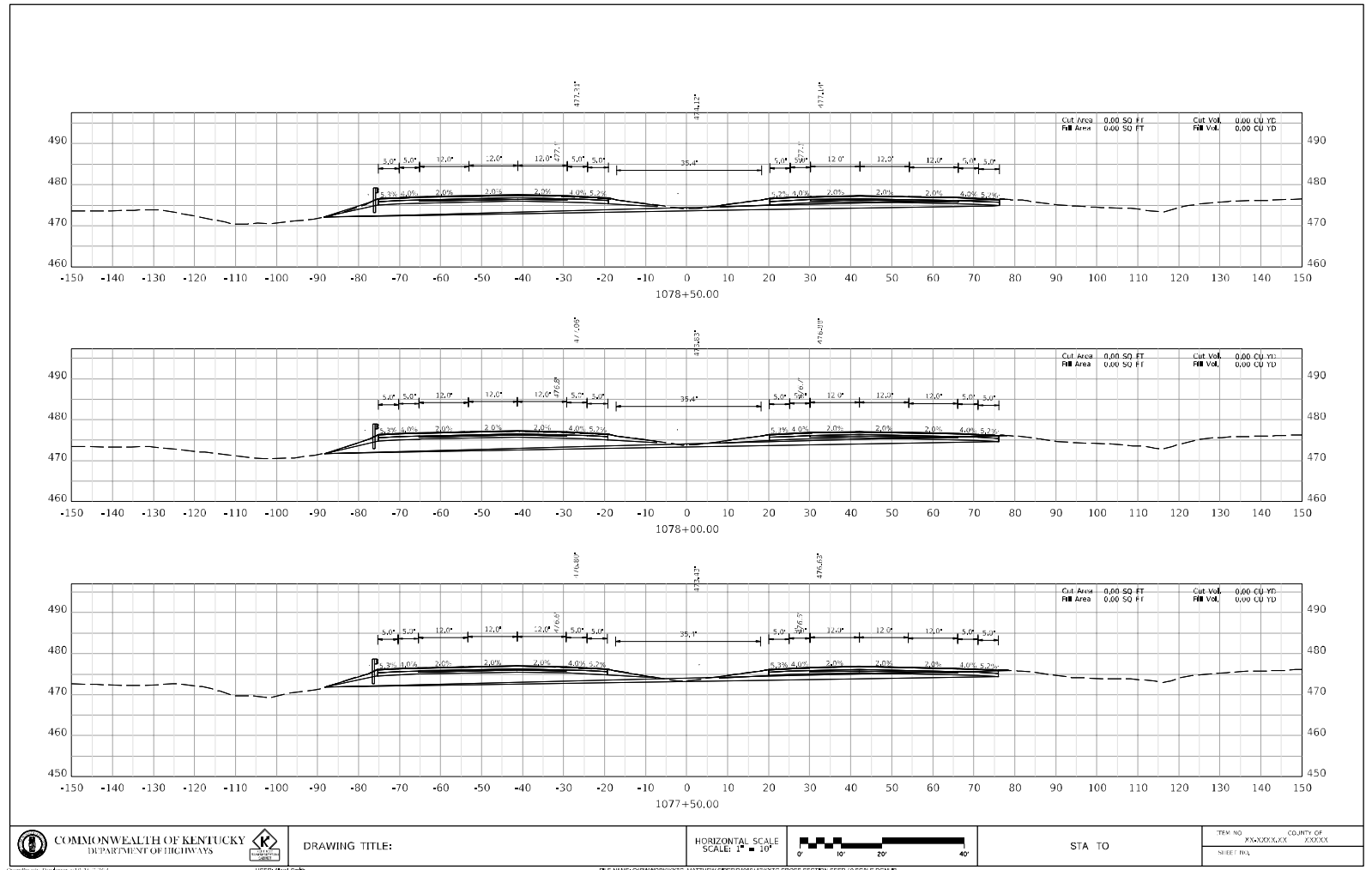
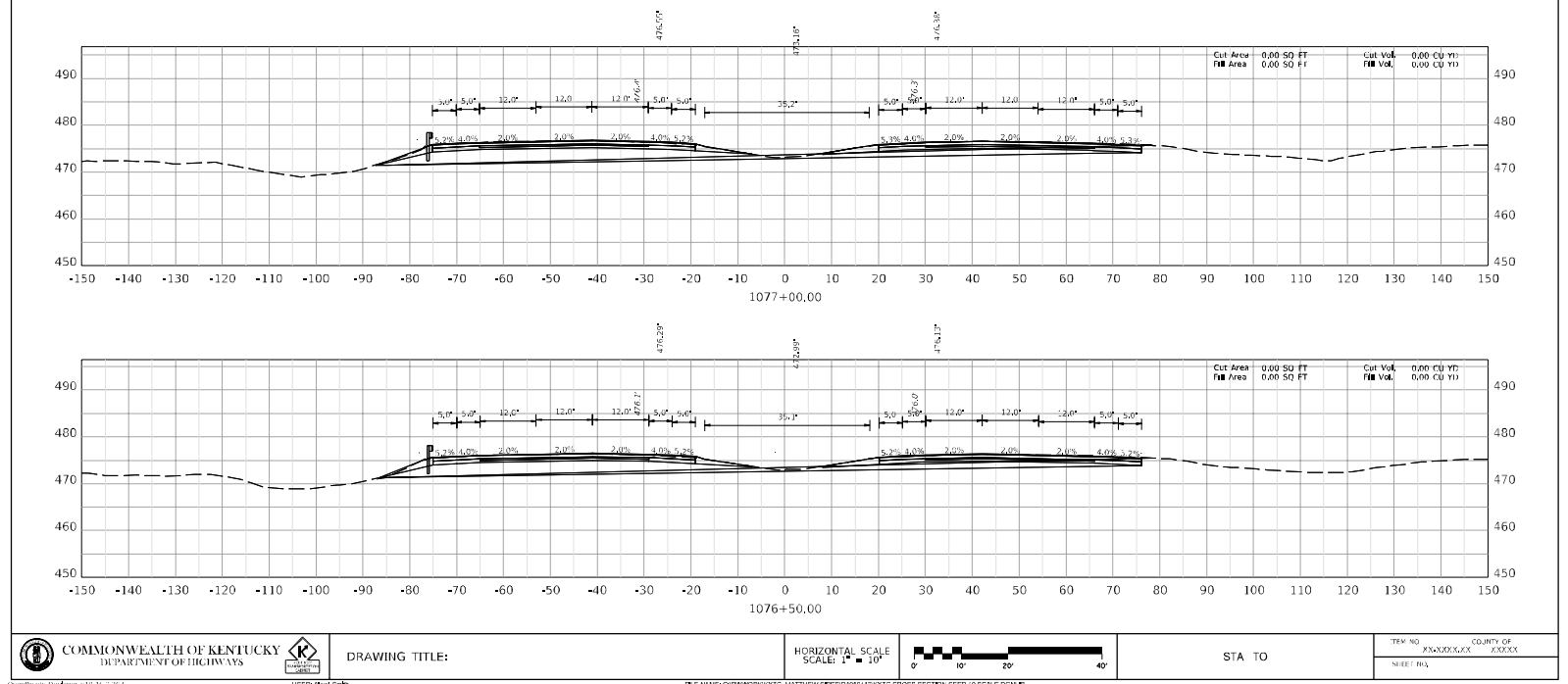
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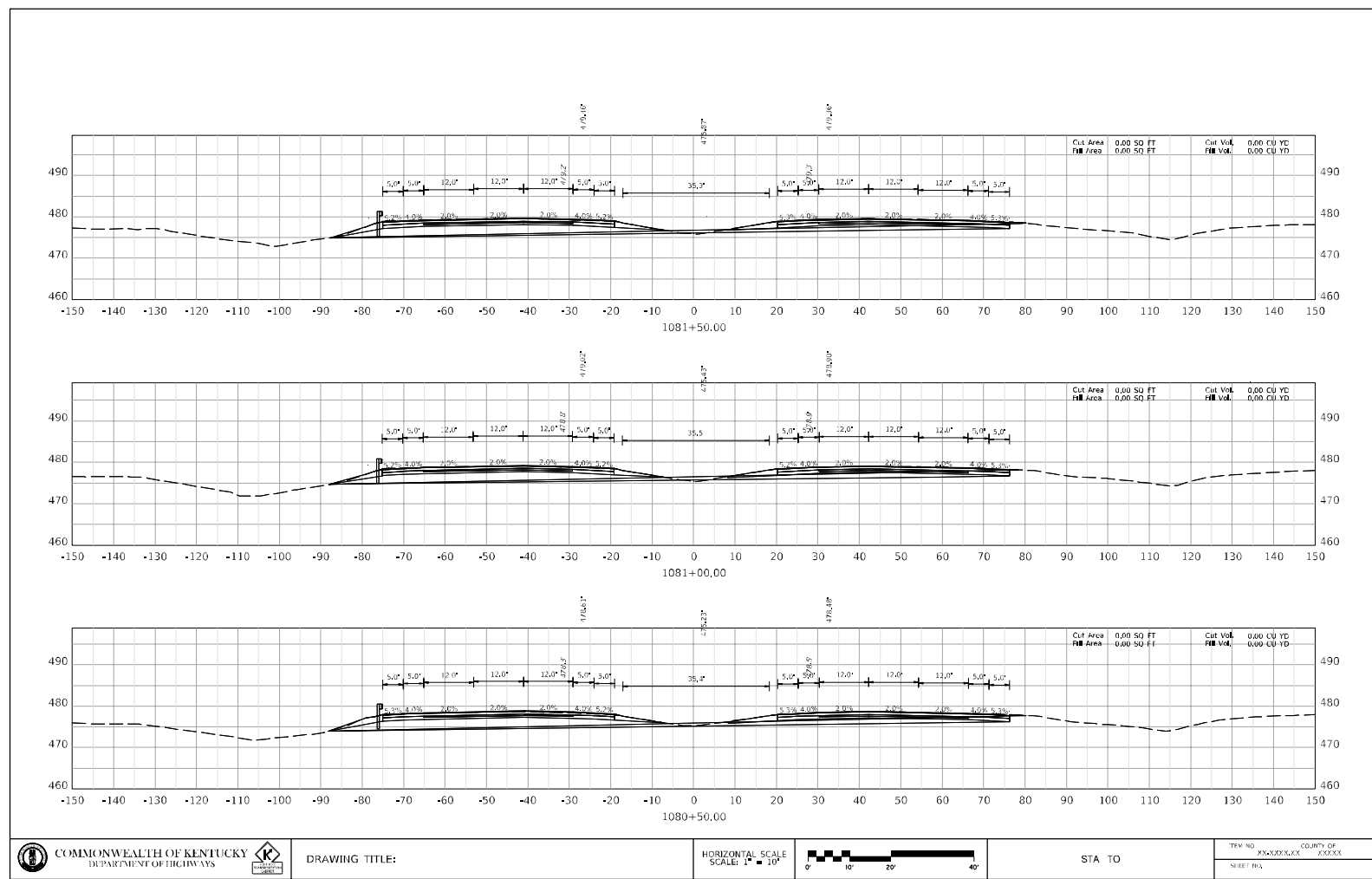
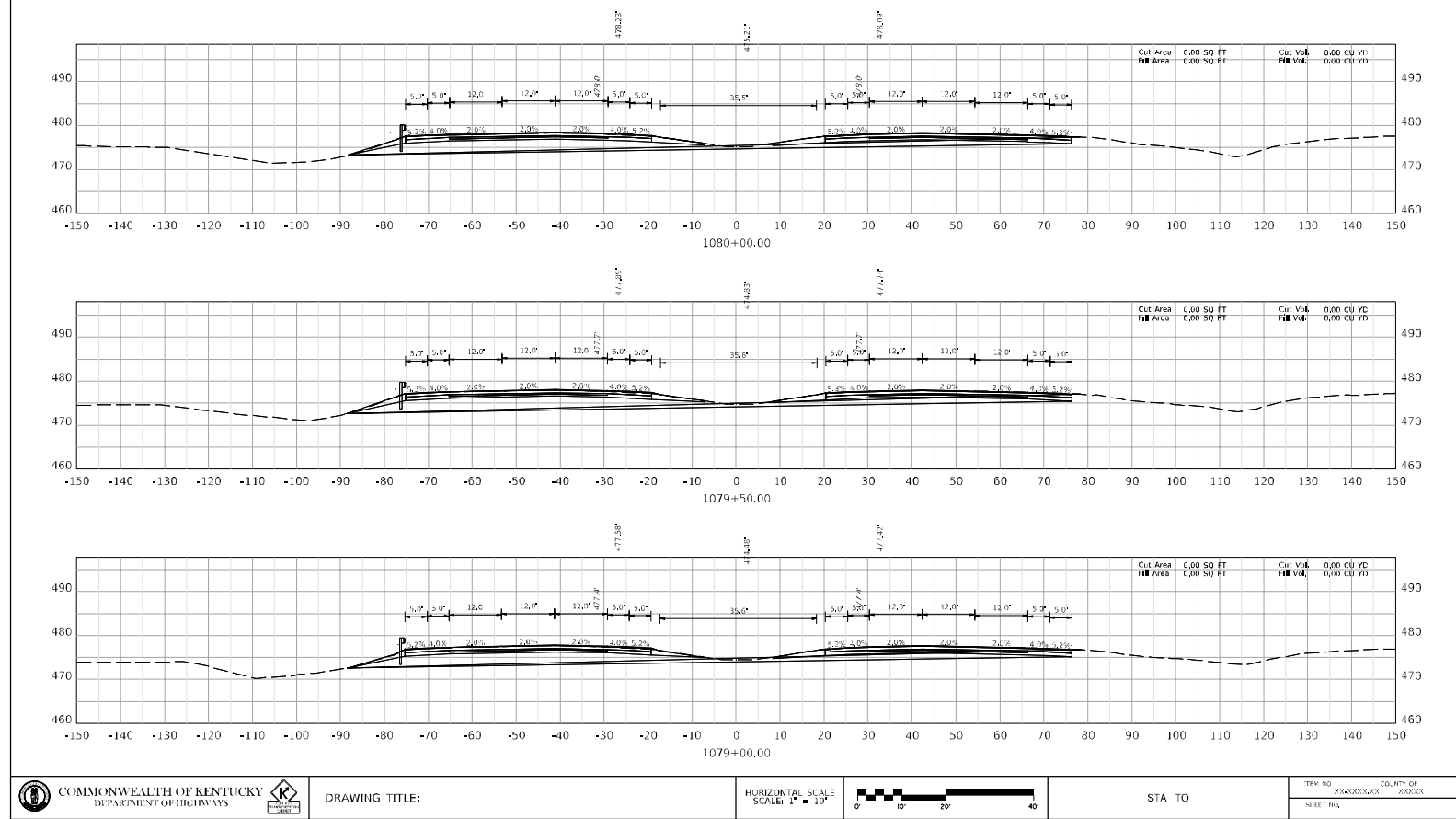
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

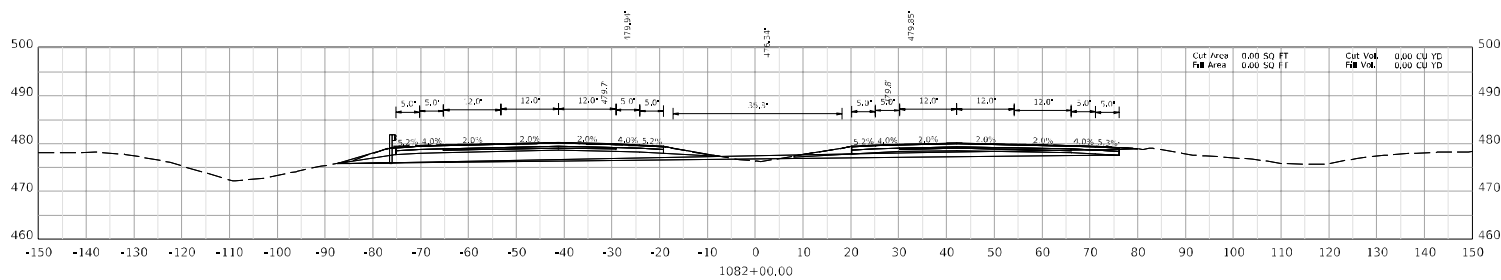
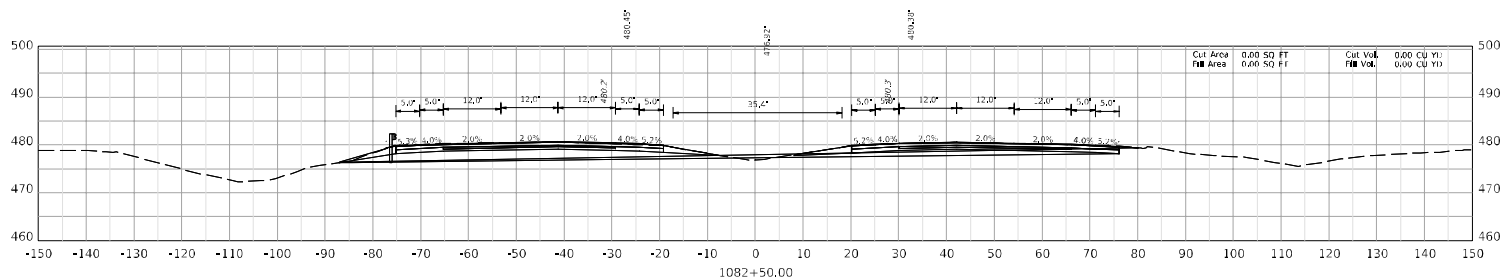
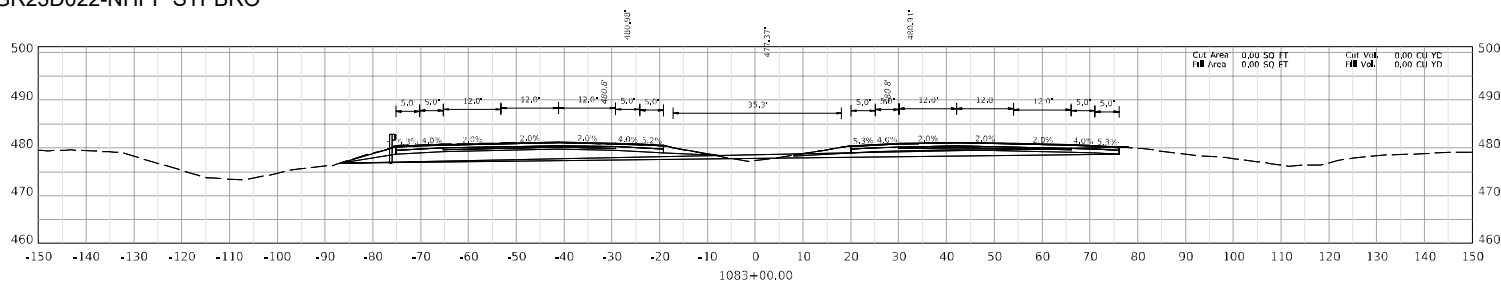



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO





BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO






COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'

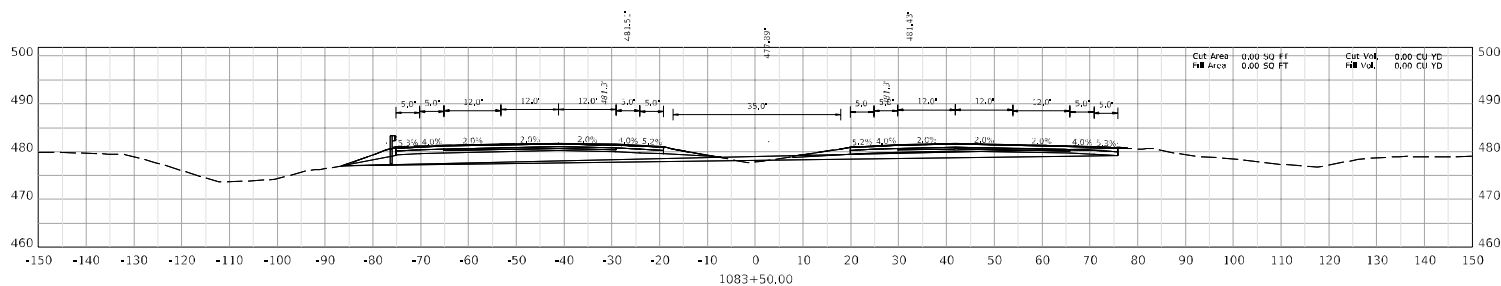
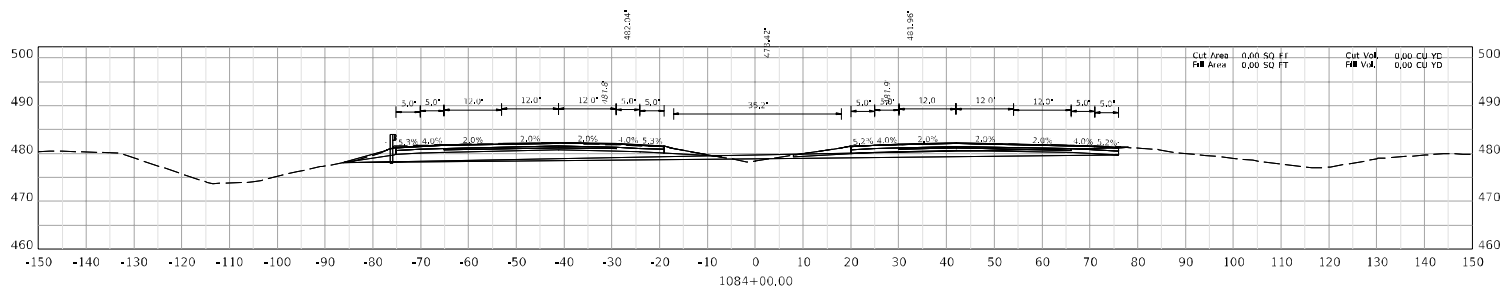
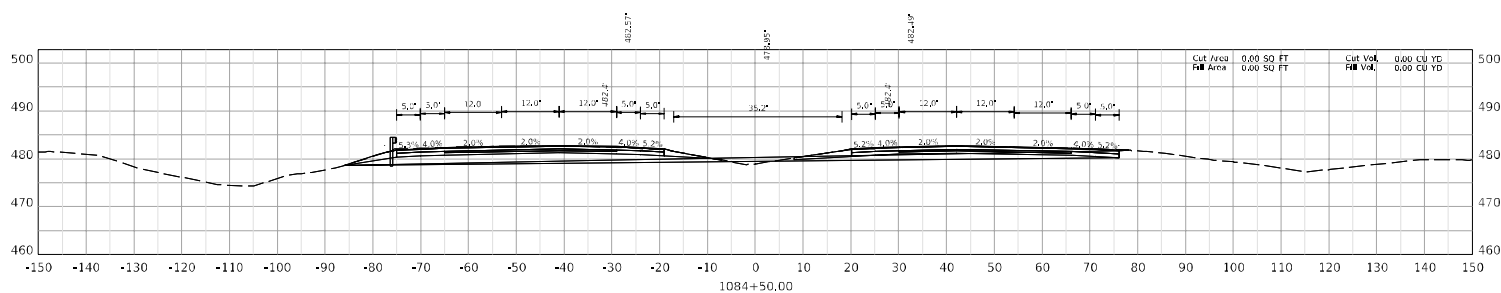


0' 10' 20' 40'

STA TO

TRM NO: KXXXXXX  
SHEET RA: XXXXX

COUNTY OF: XXXXX





COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



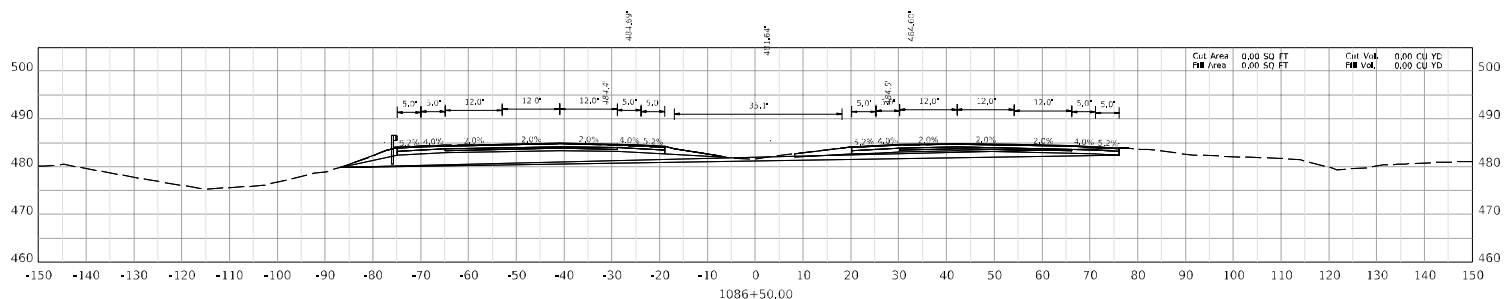
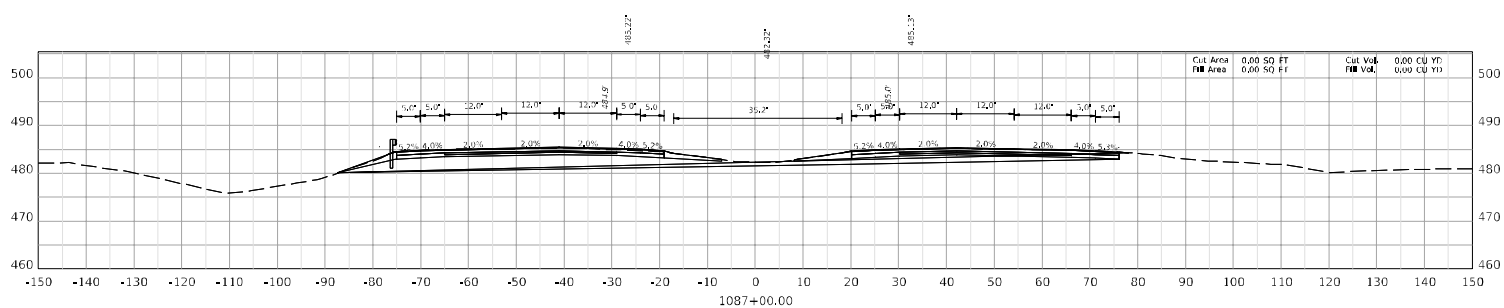
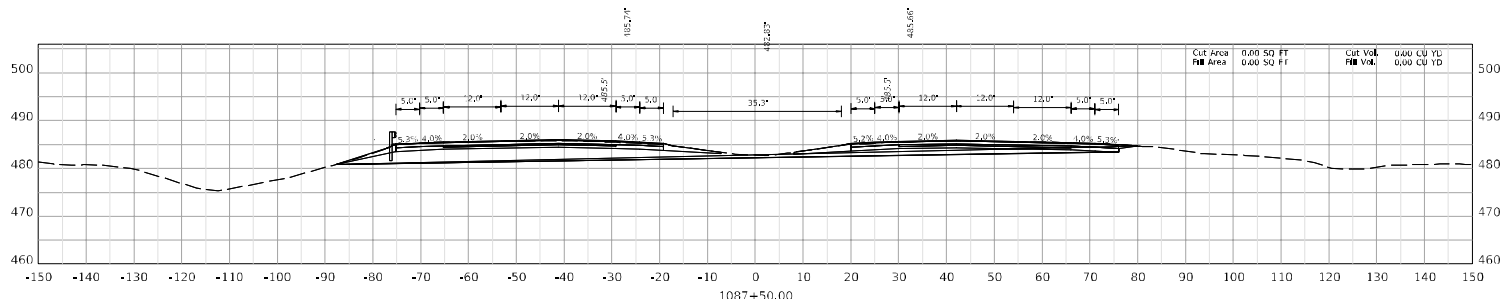
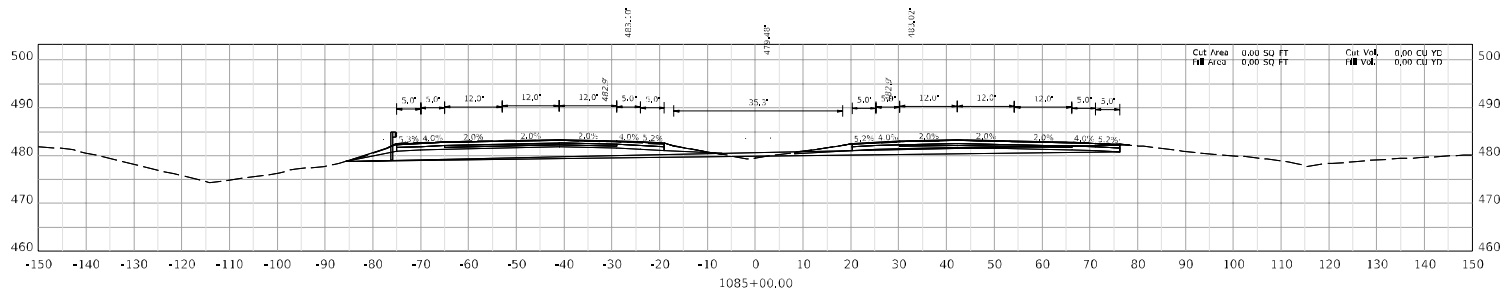
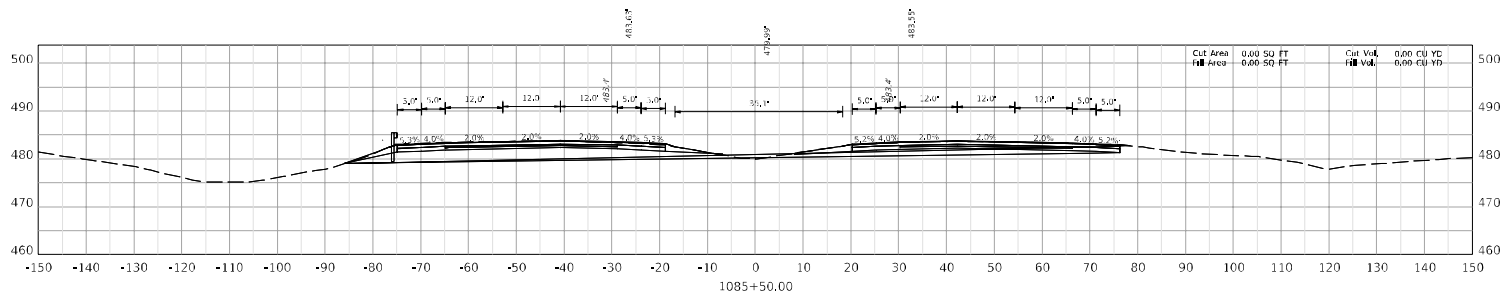
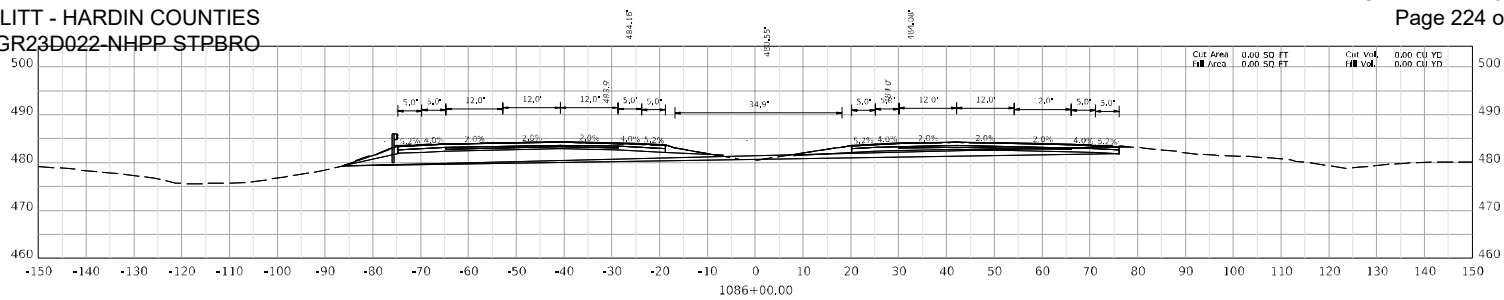
0' 10' 20' 40'

STA TO

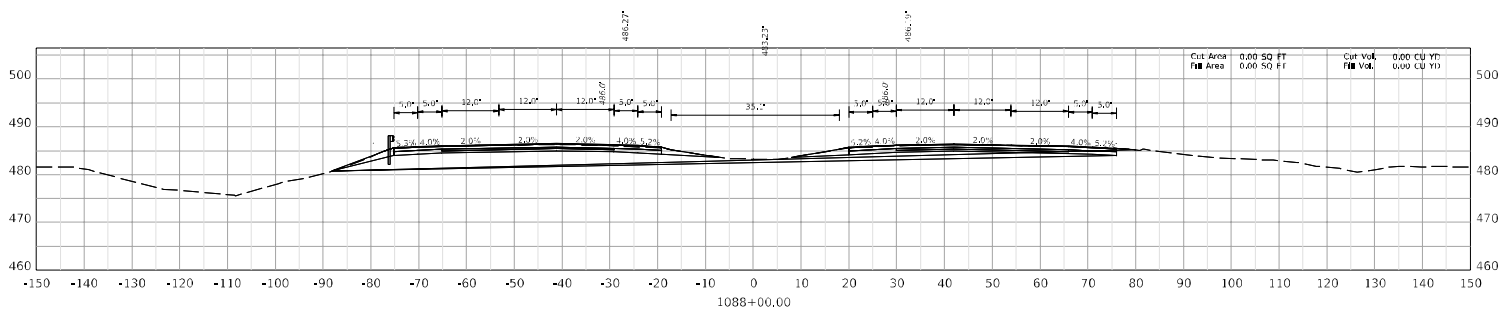
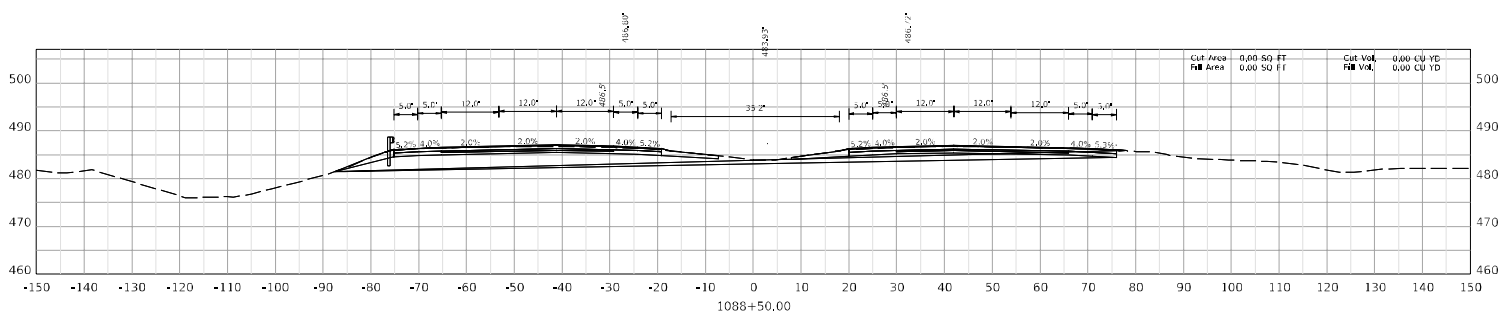
TRM NO: KXXXXXX  
SHEET RA: XXXXX

COUNTY OF: XXXXX

BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

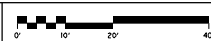


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



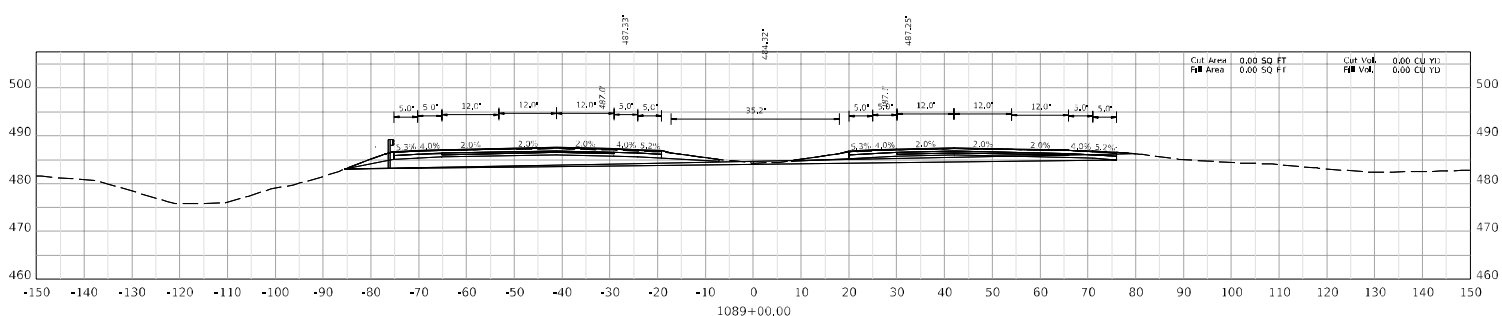
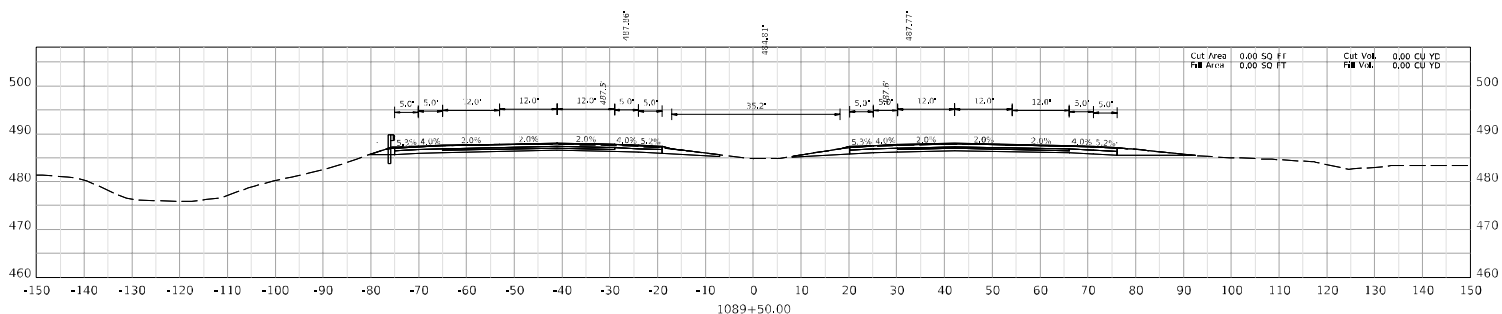
STA TO

TRM NO COUNTY OF  
SHEET RA XXXXX

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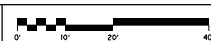


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



STA TO

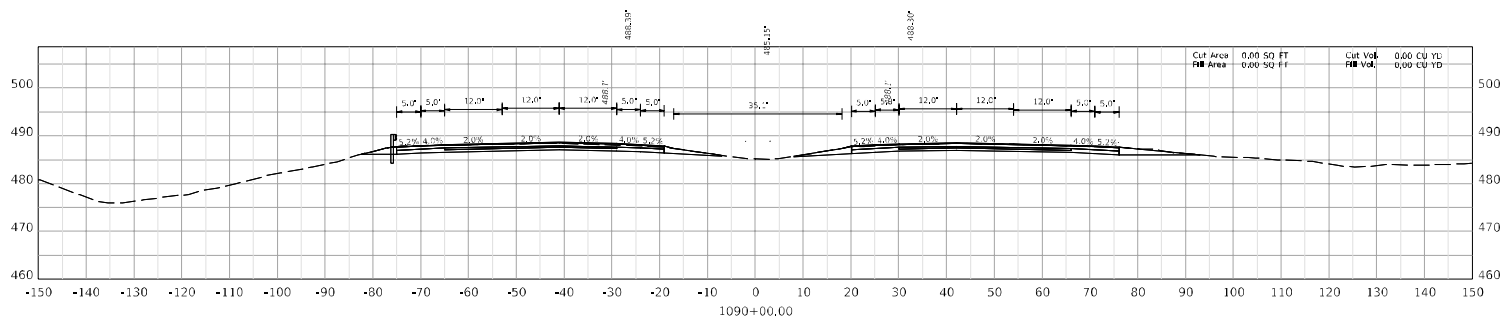
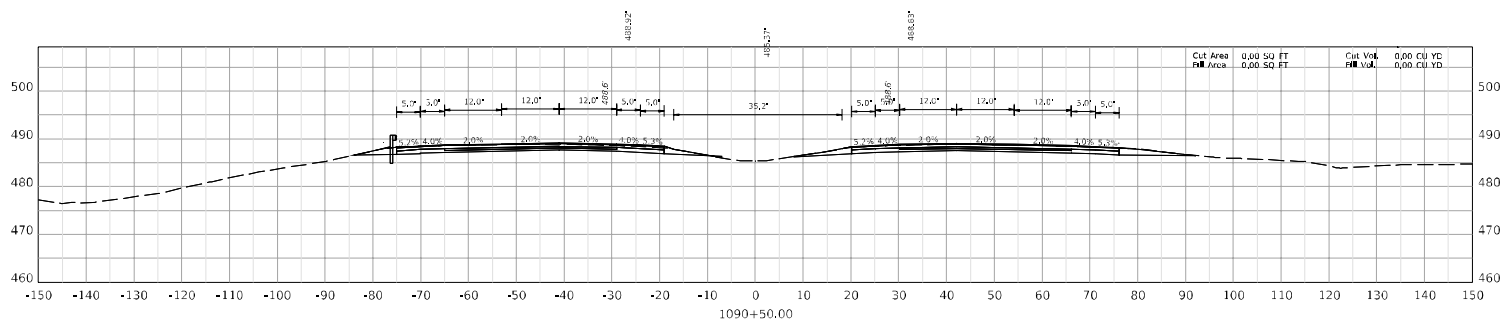
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SHEET RA XXXXX

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BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

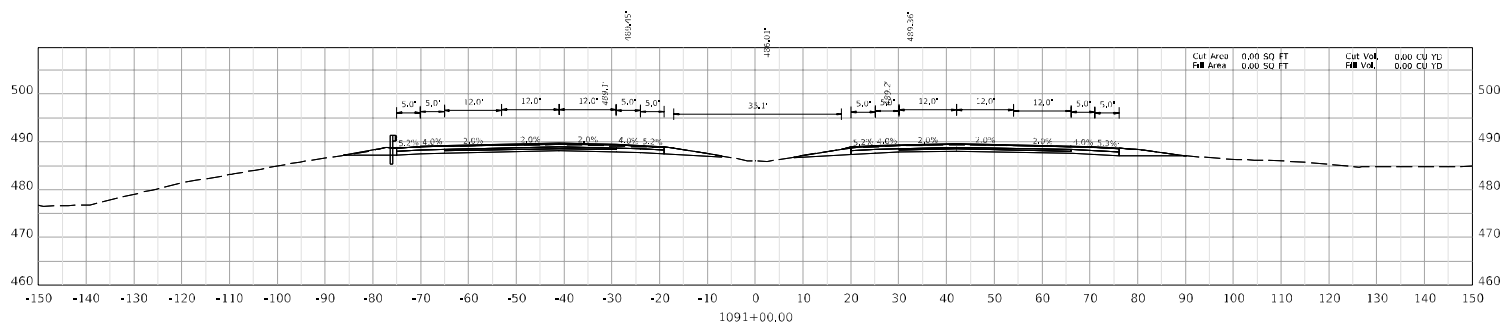
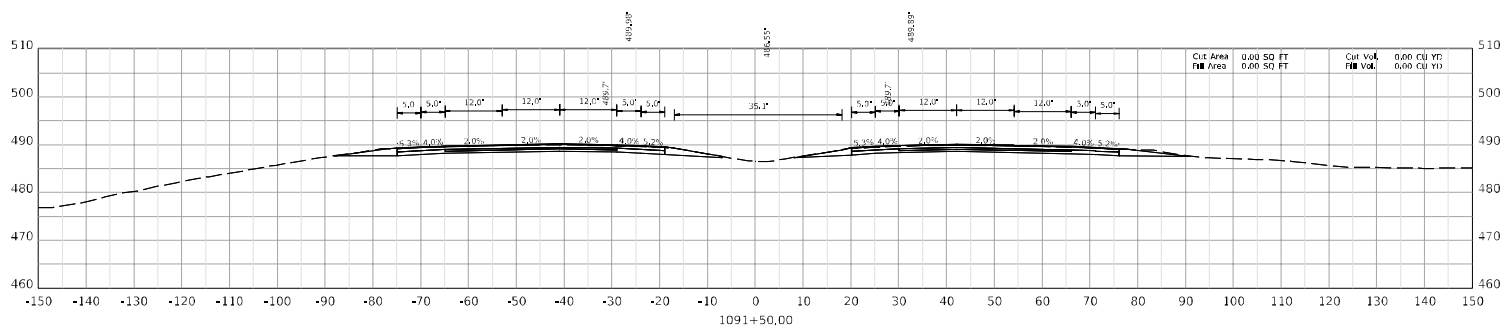


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					XXXXXX	XXXXXX

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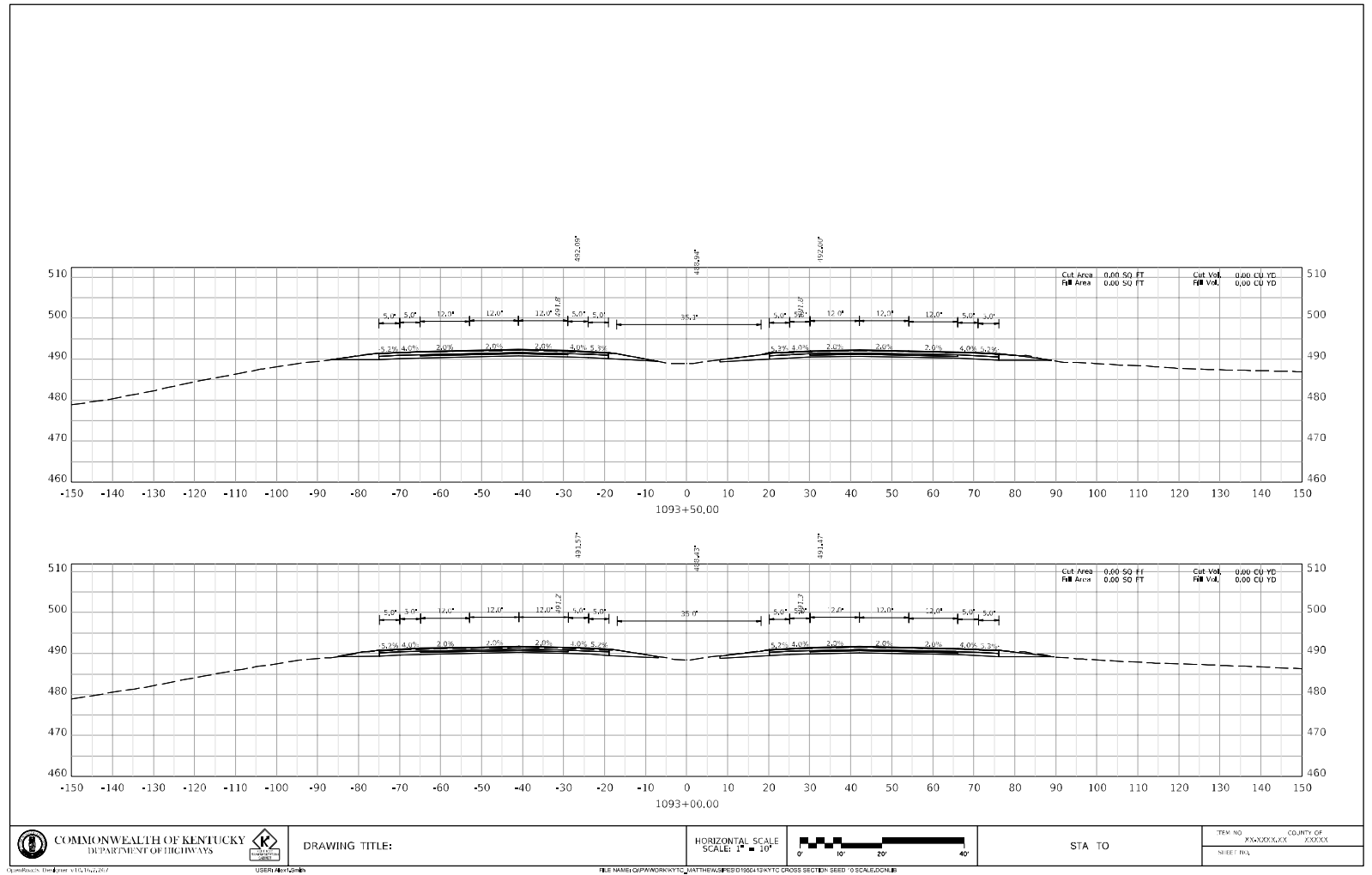
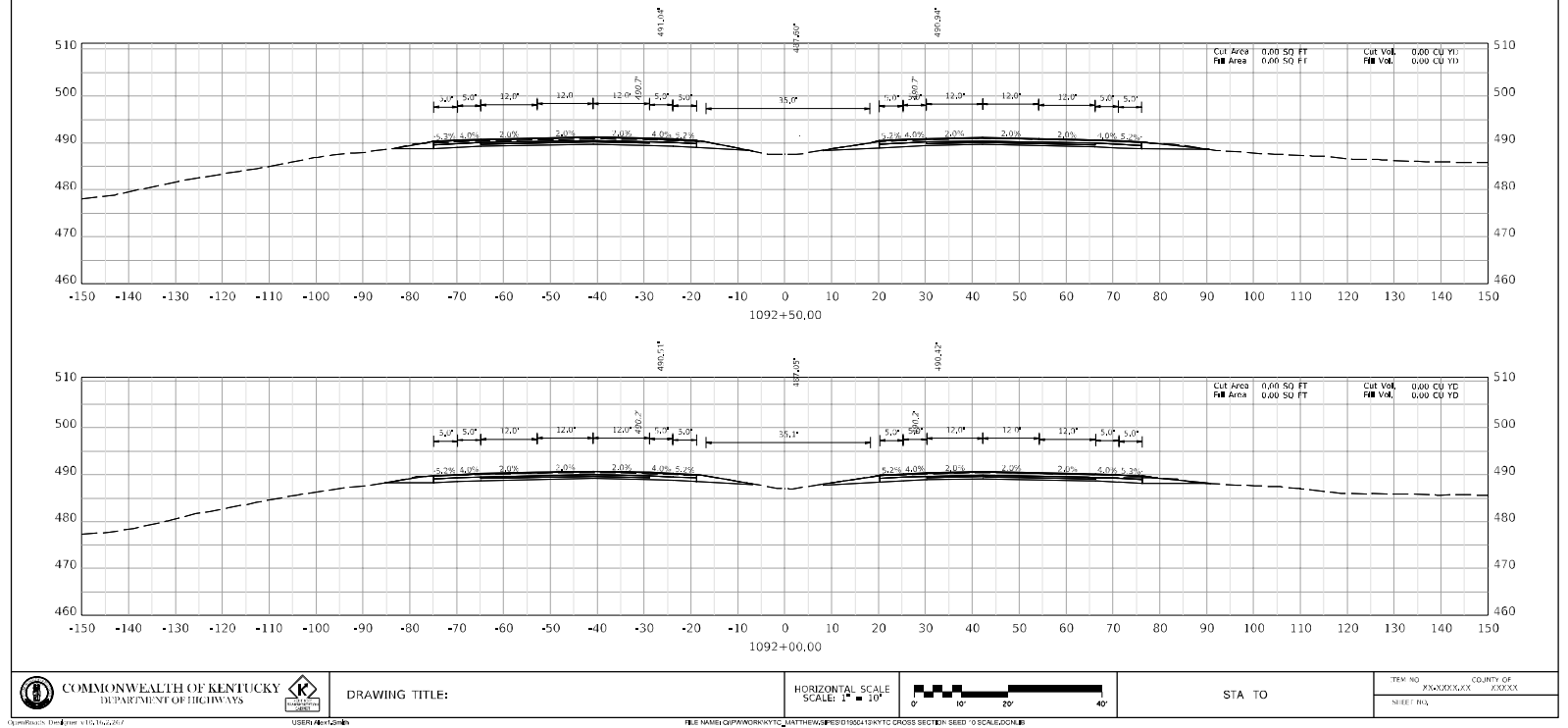
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					XXXXXX	XXXXXX

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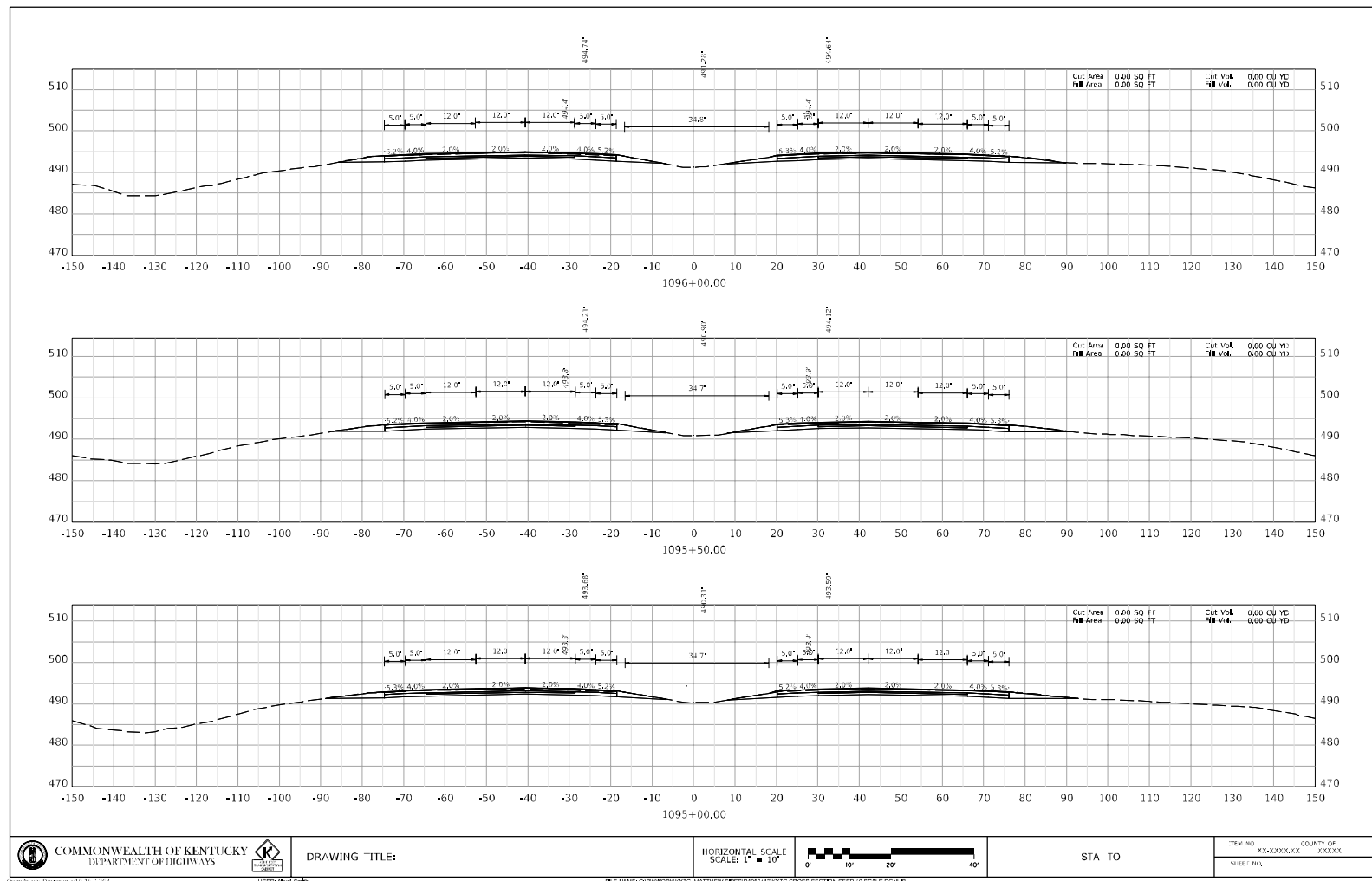
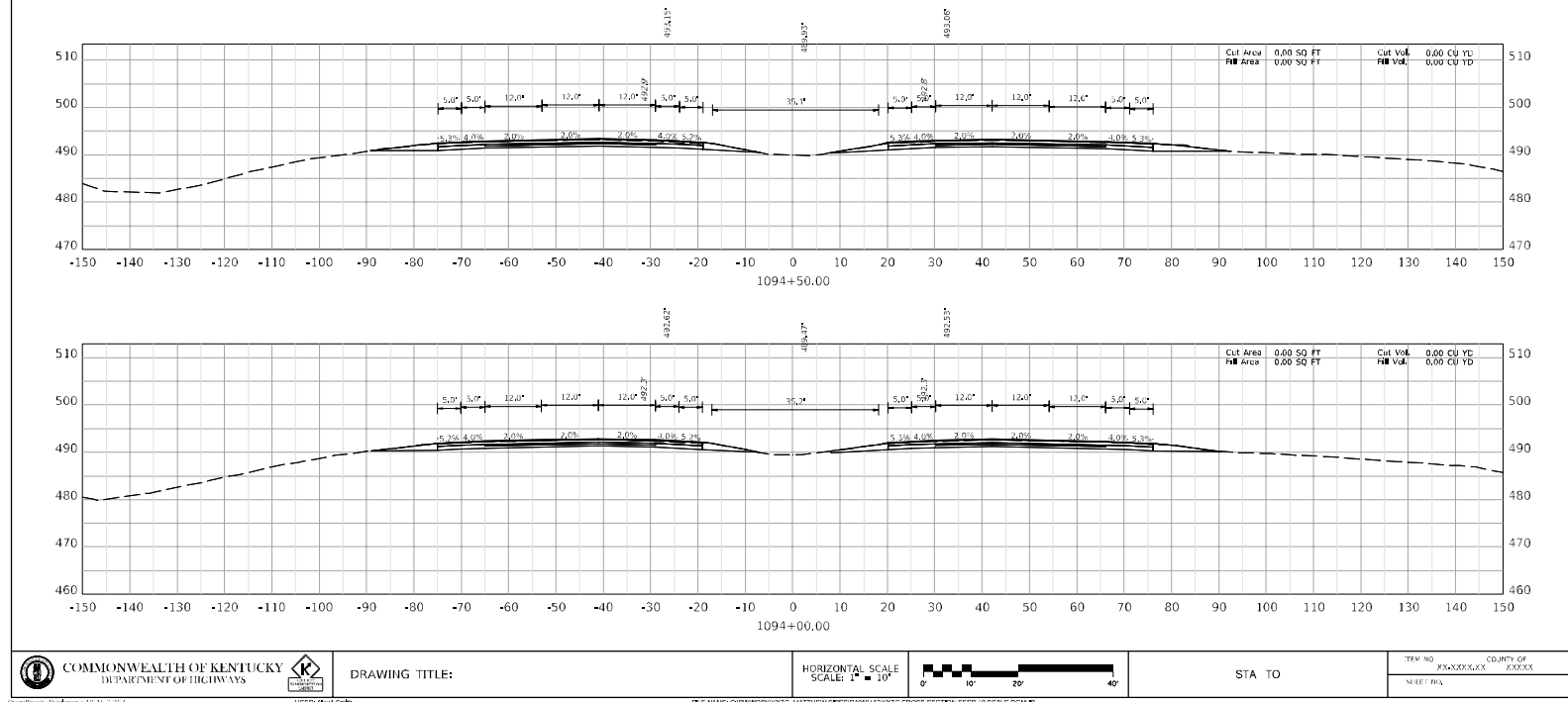
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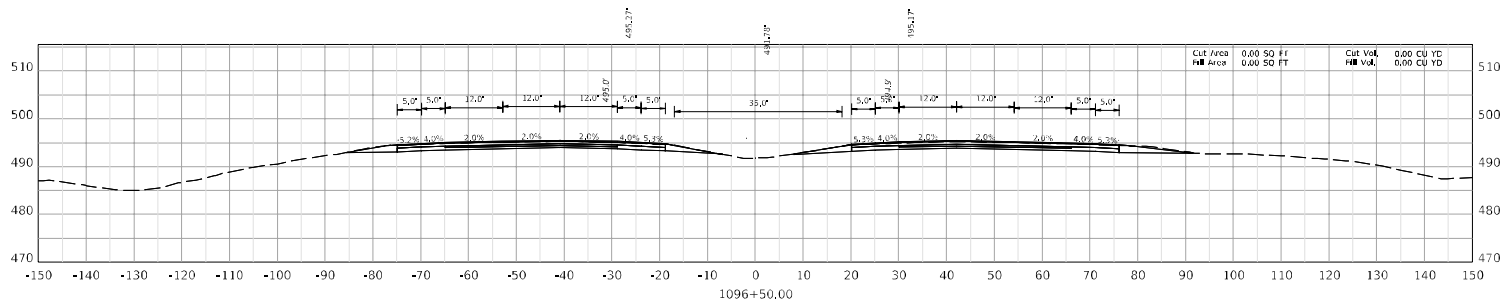
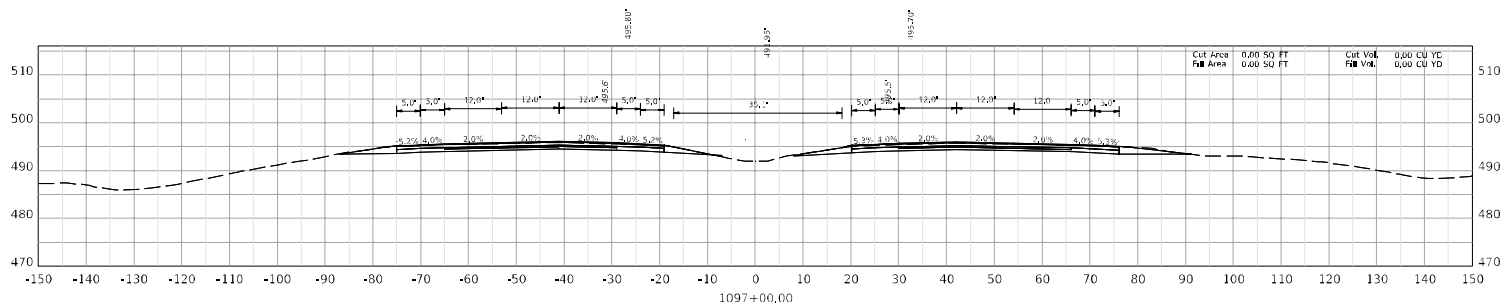
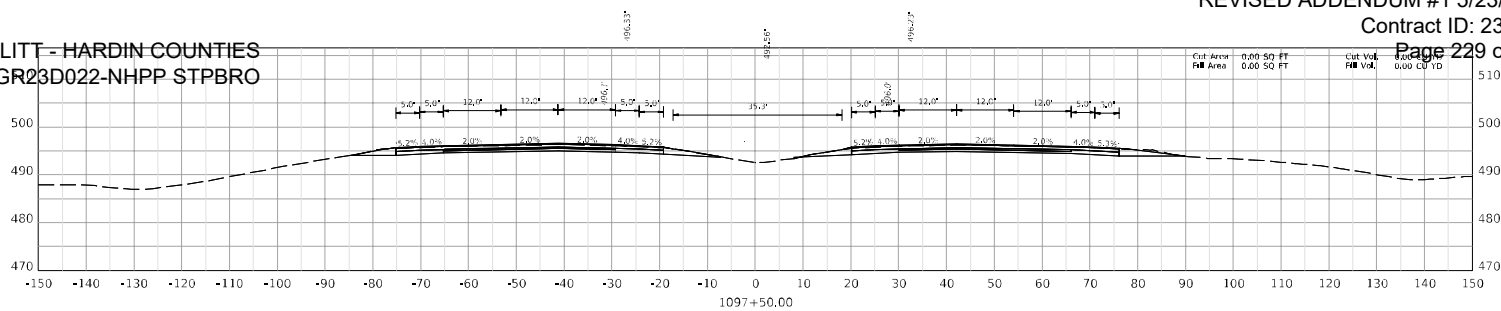
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

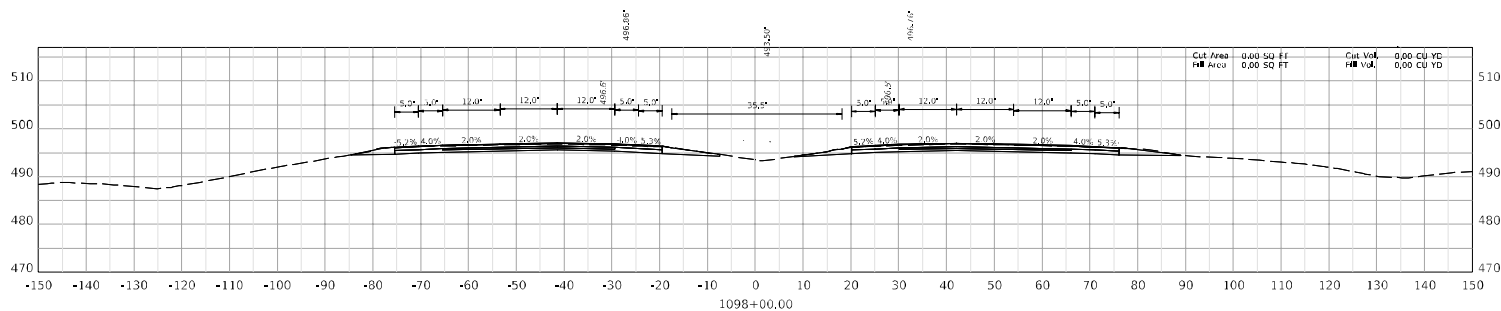
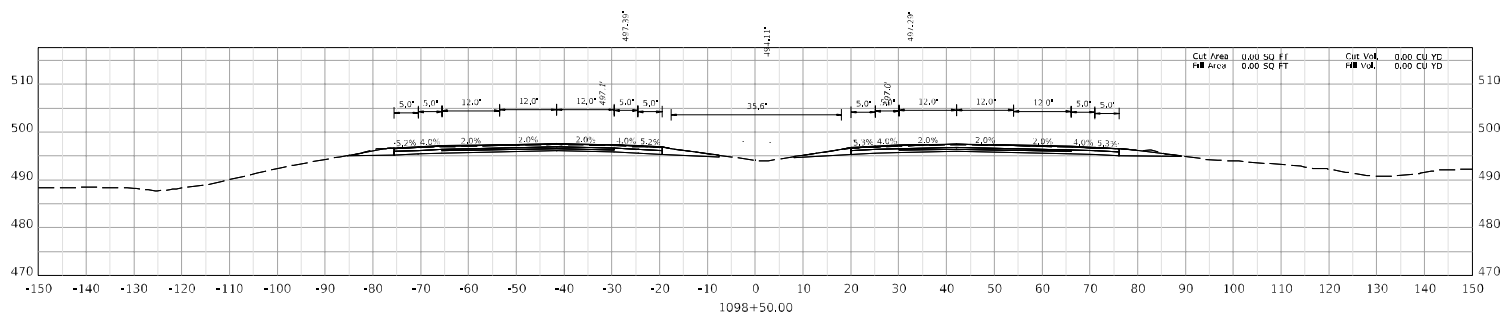


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					SHEET RA	KY00000000

C:\Users\jdoyle\OneDrive\Documents\121GR23D022-NHPP STPBRO

USER: jdoyle

FILE NAME: G:\P\WORK\121GR23D022-NHPP STPBRO CROSS SECTION SHEET 10 SCALE.DGN



	DRAWING TITLE:	HORIZONTAL SCALE SCALE: 1" = 10'		STA TO	ITEM NO	COUNTY OF
					SHEET RA	KY00000000

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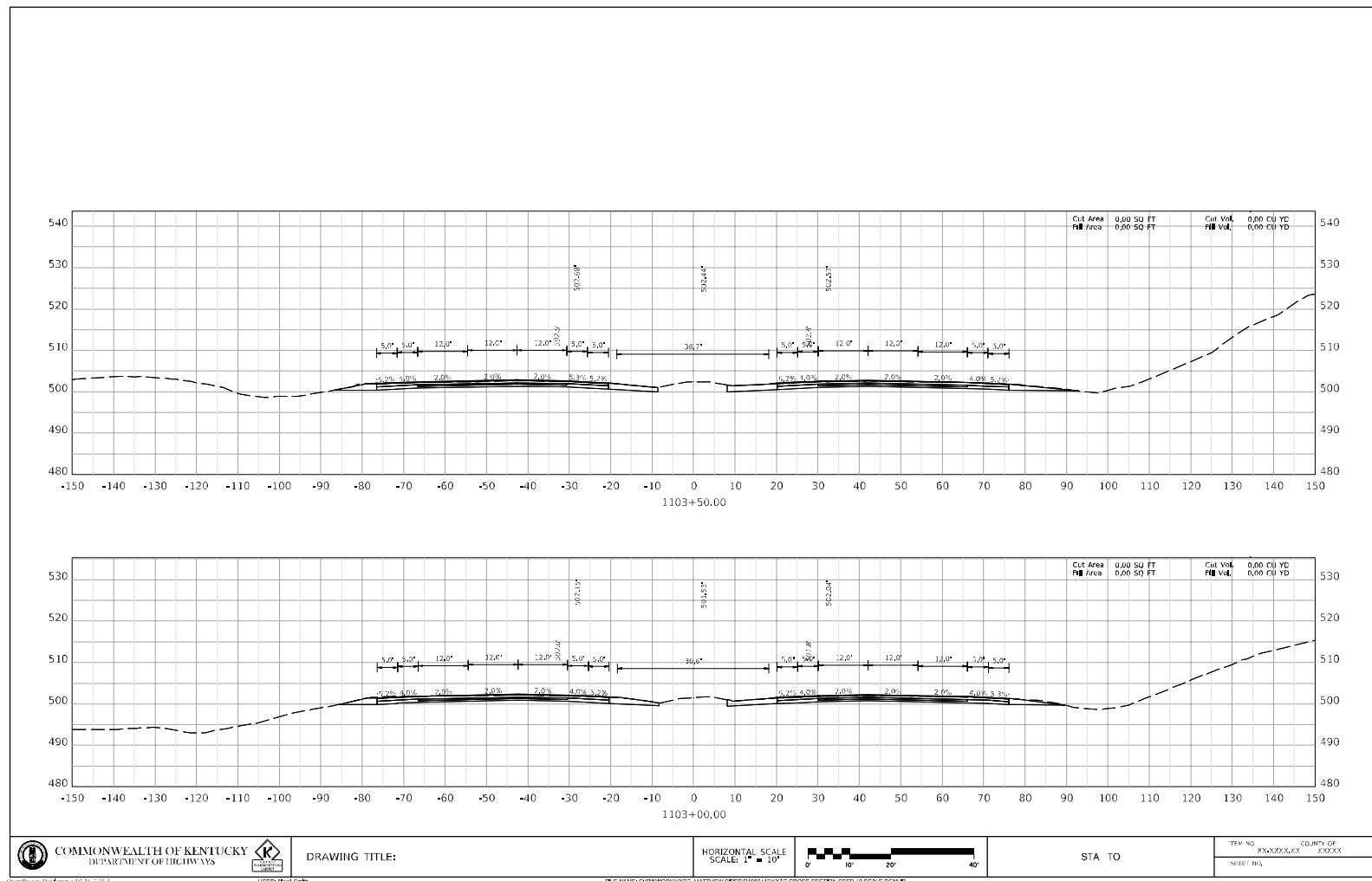
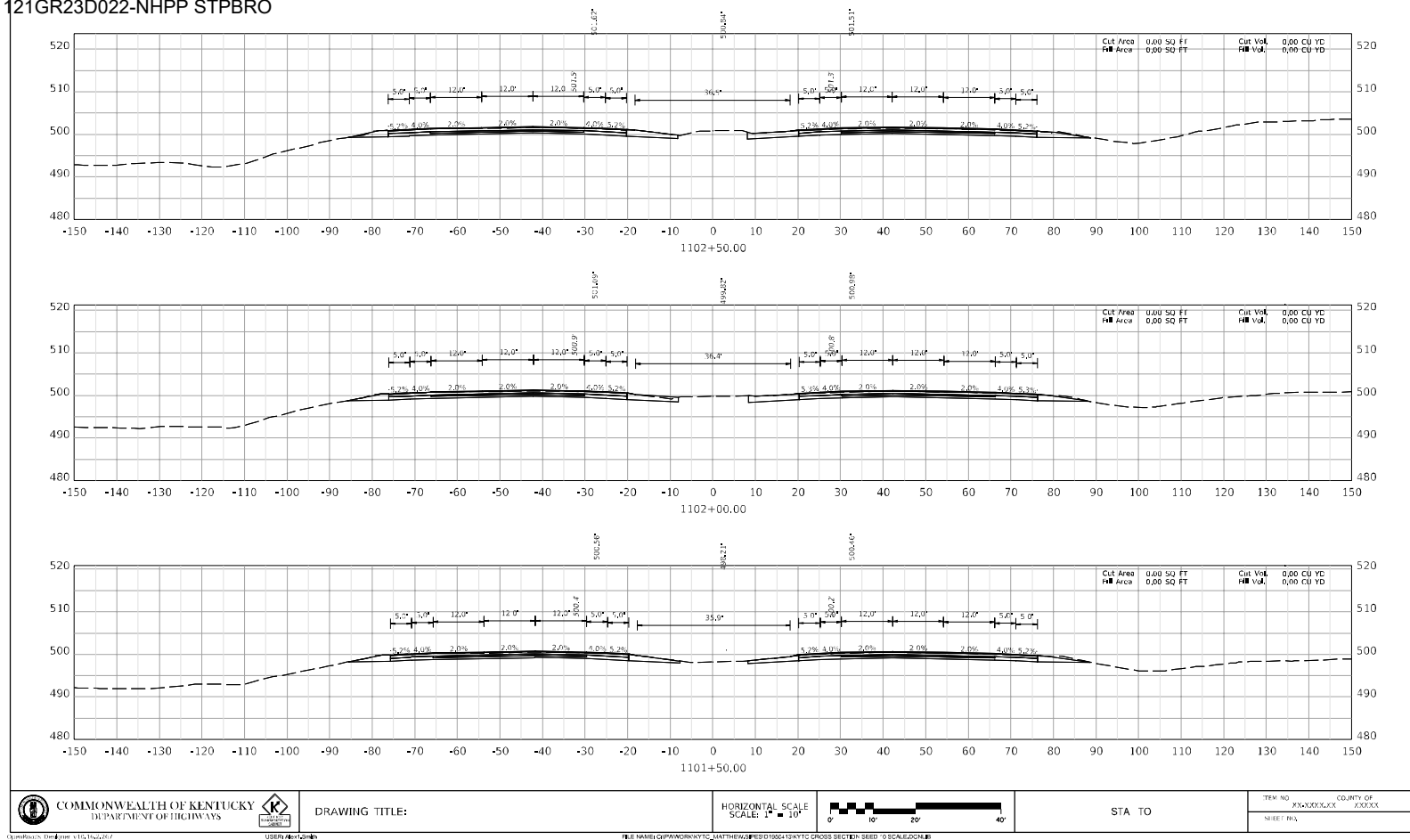
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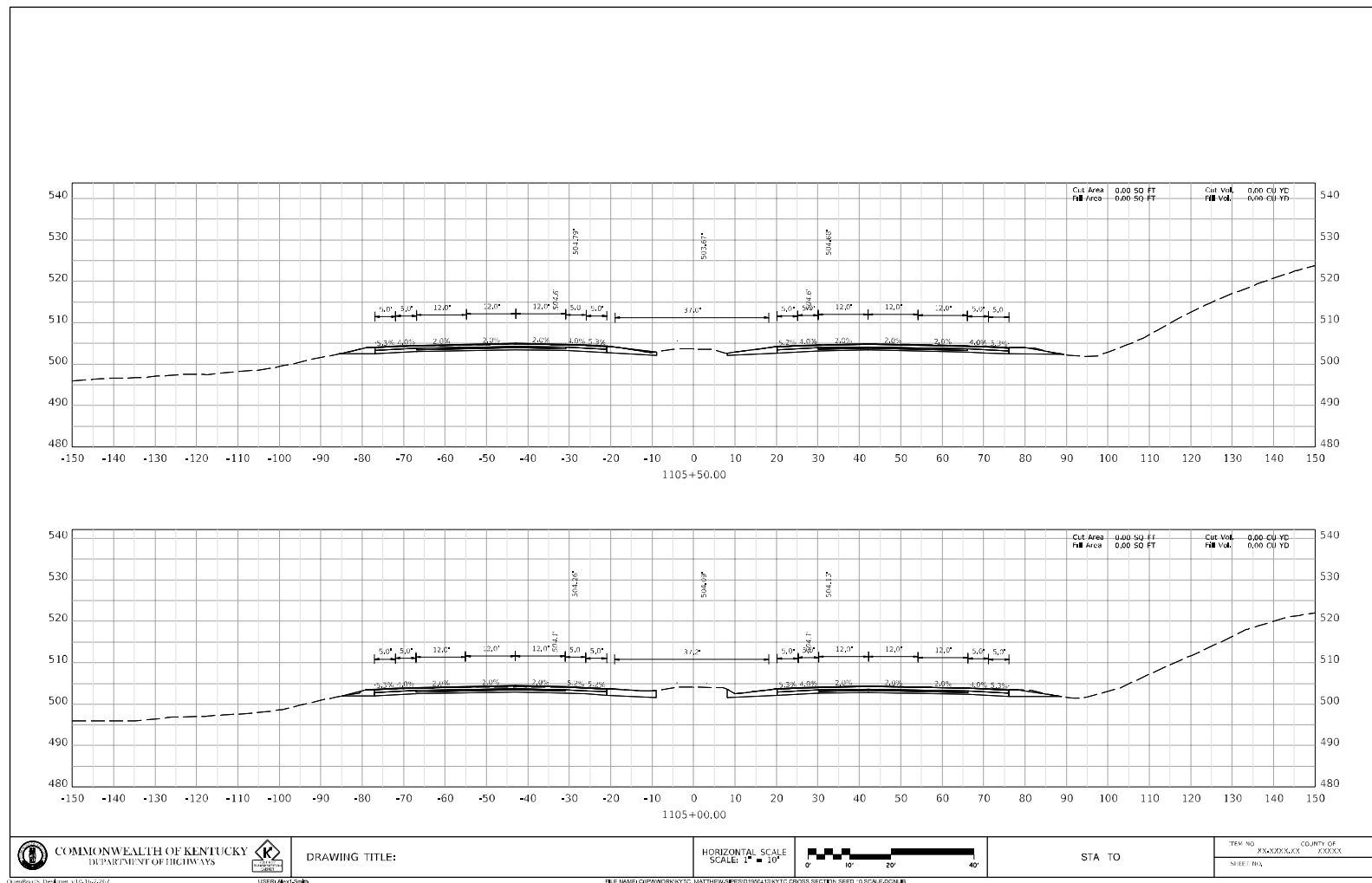
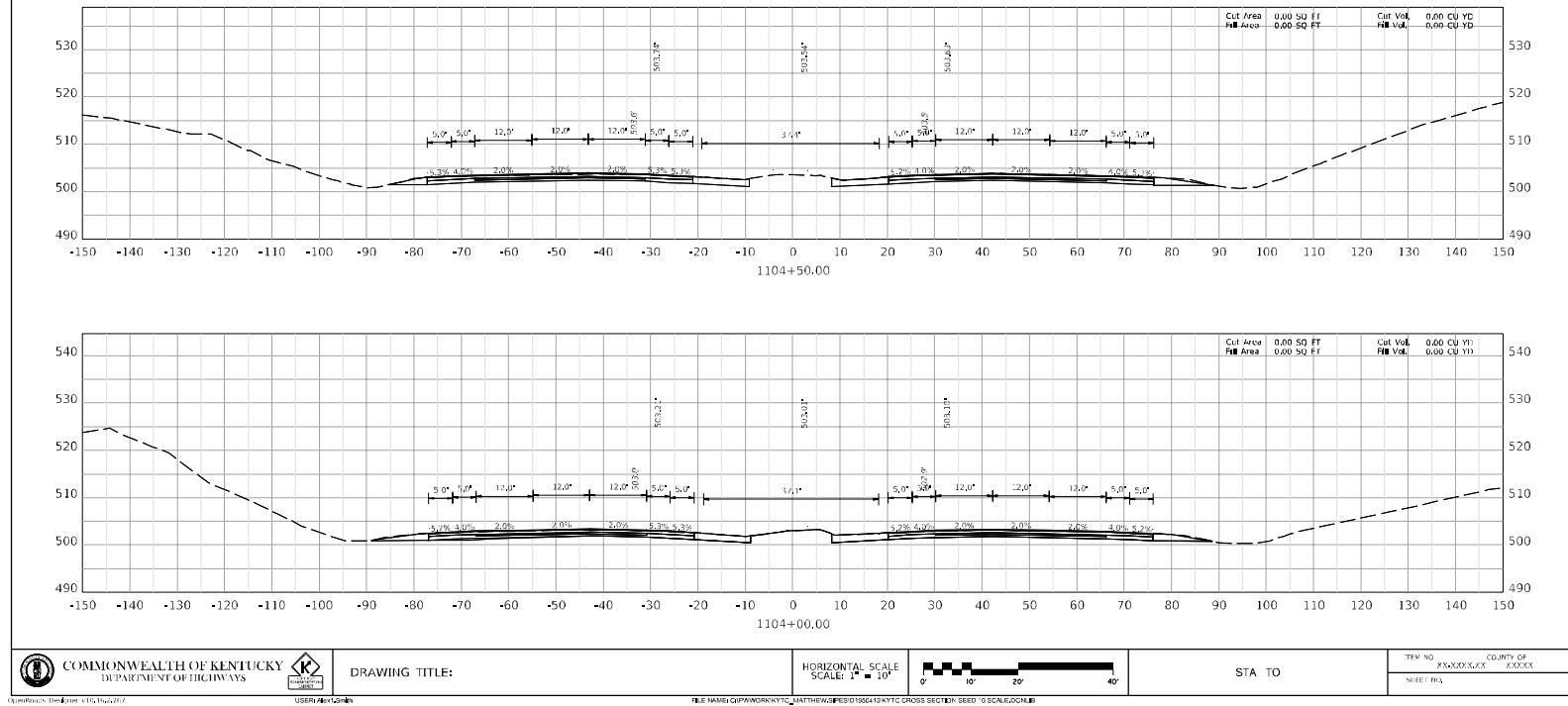
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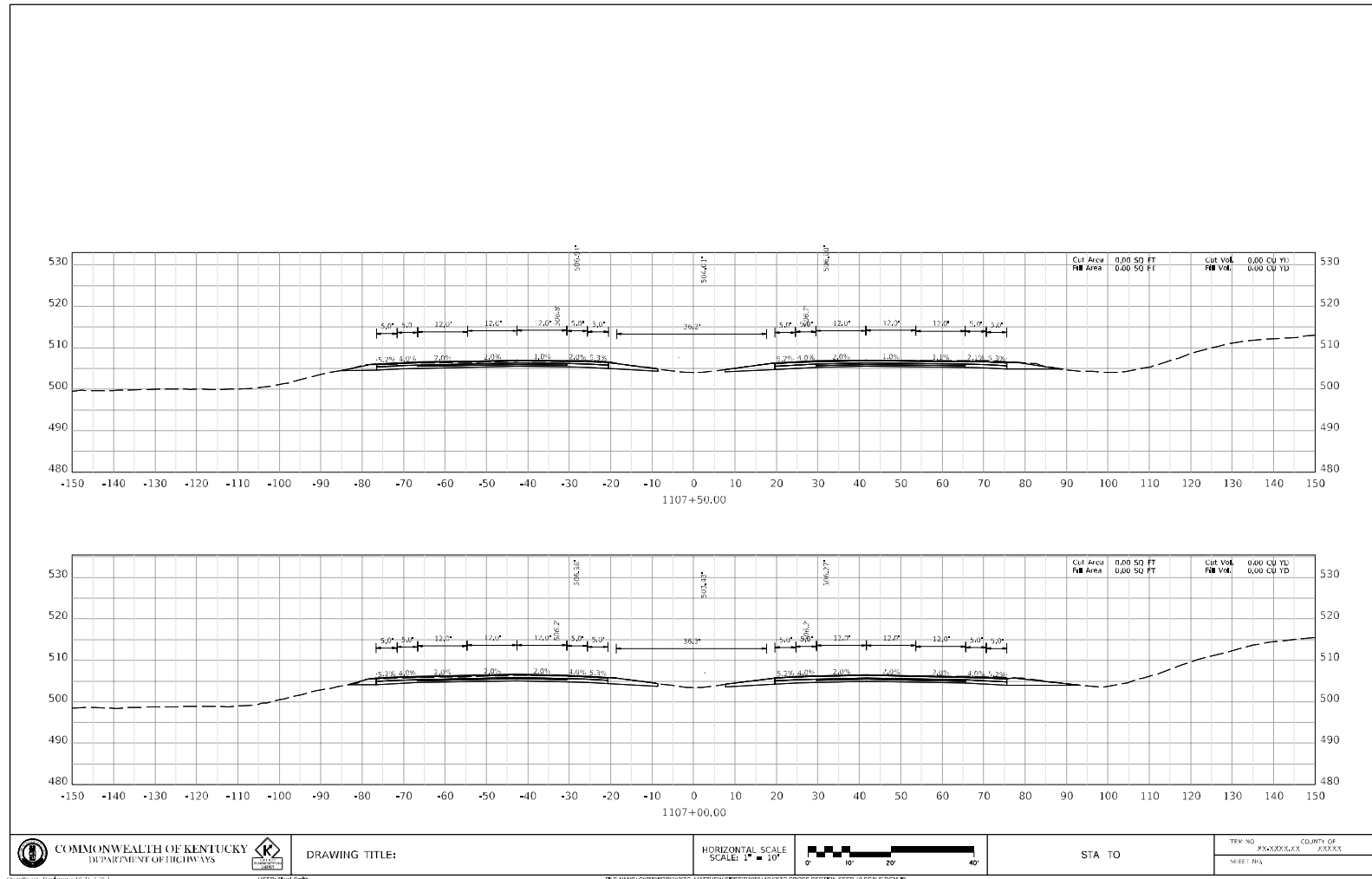
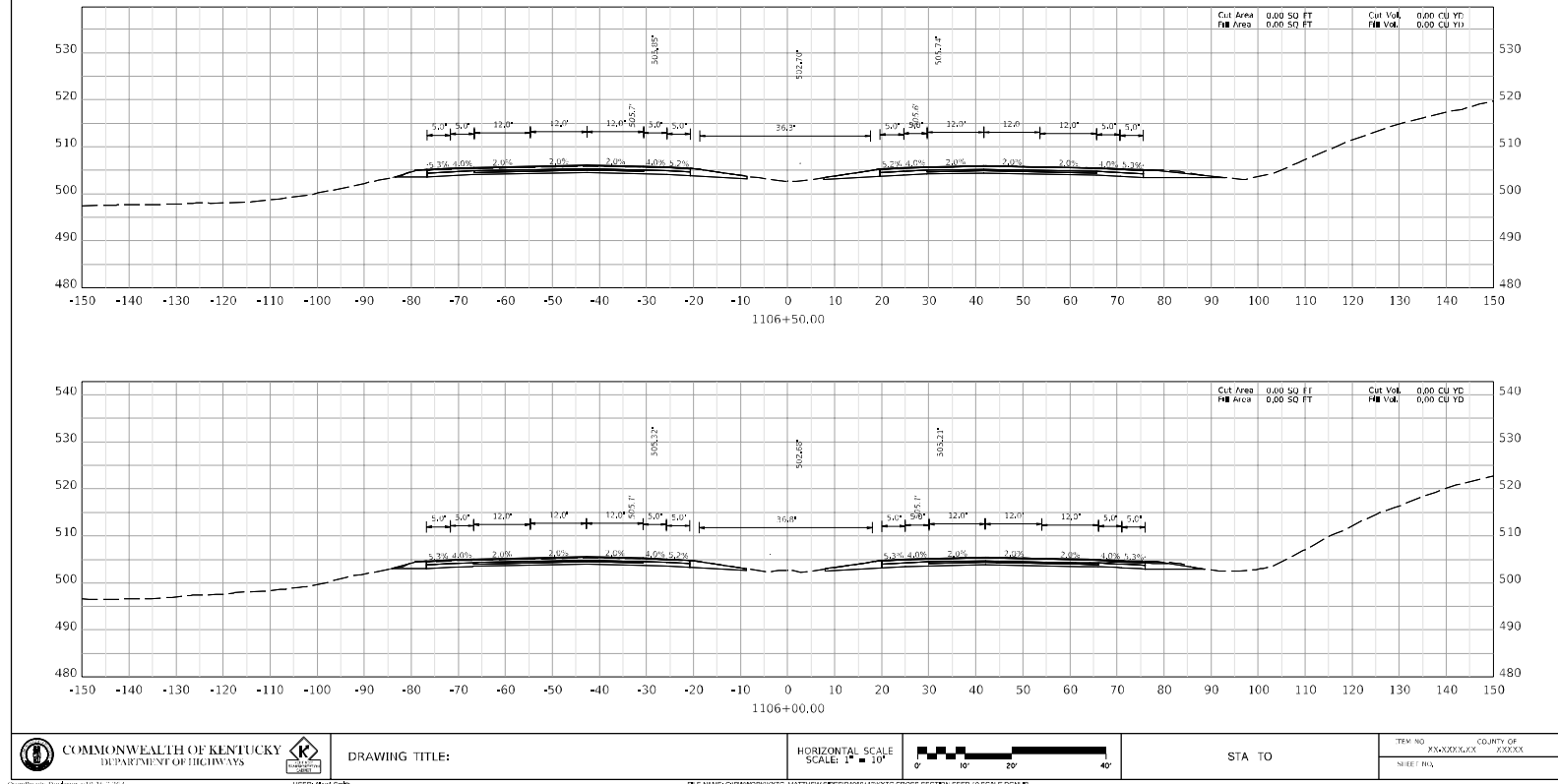
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



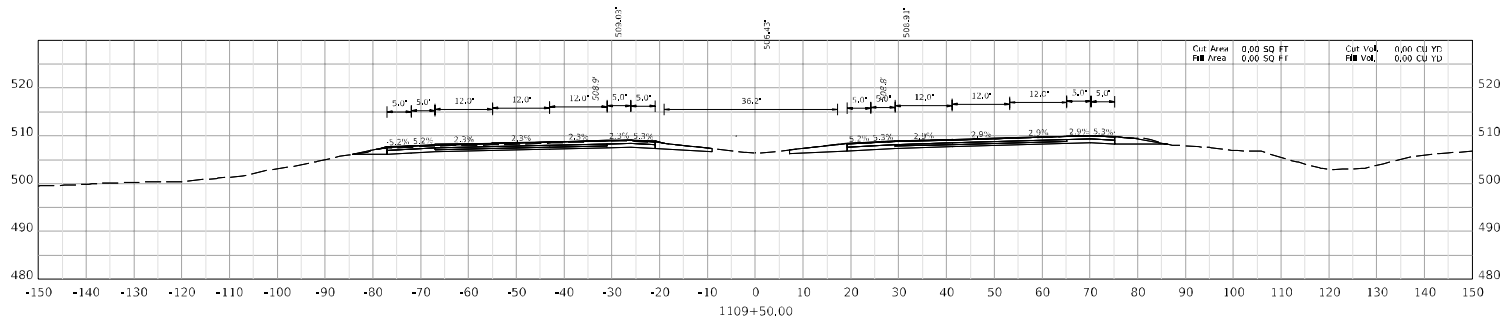
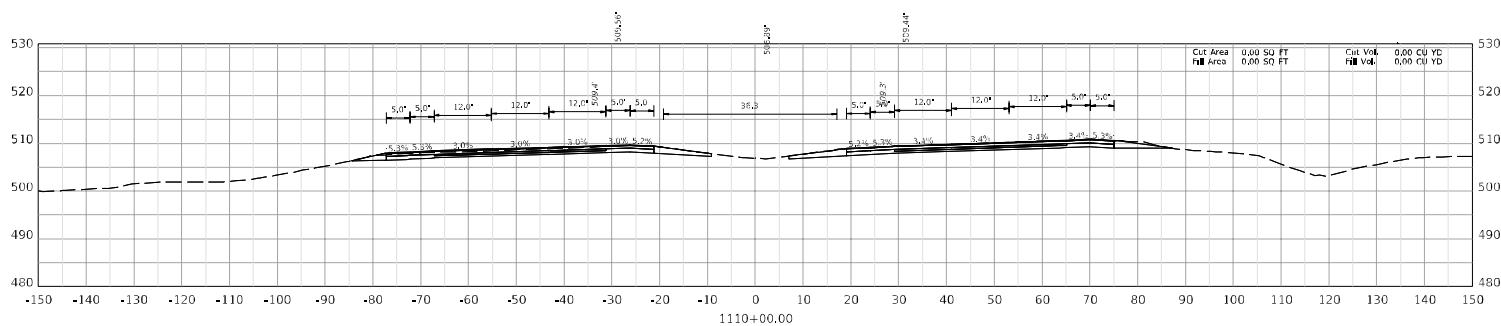
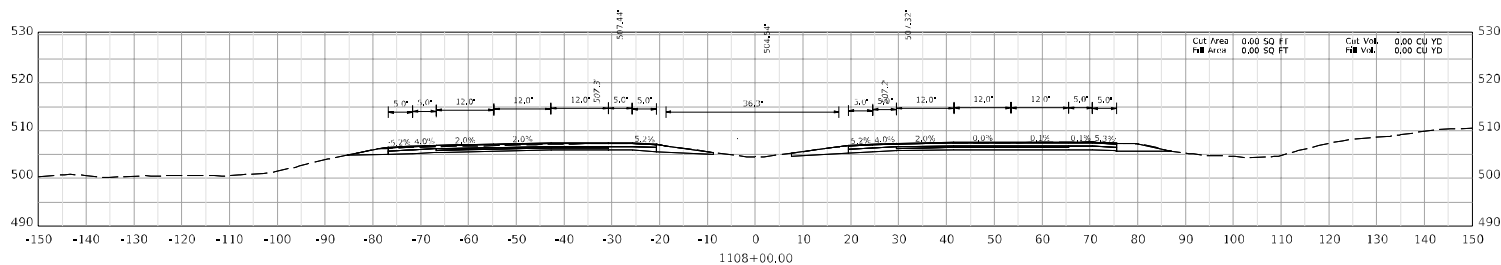
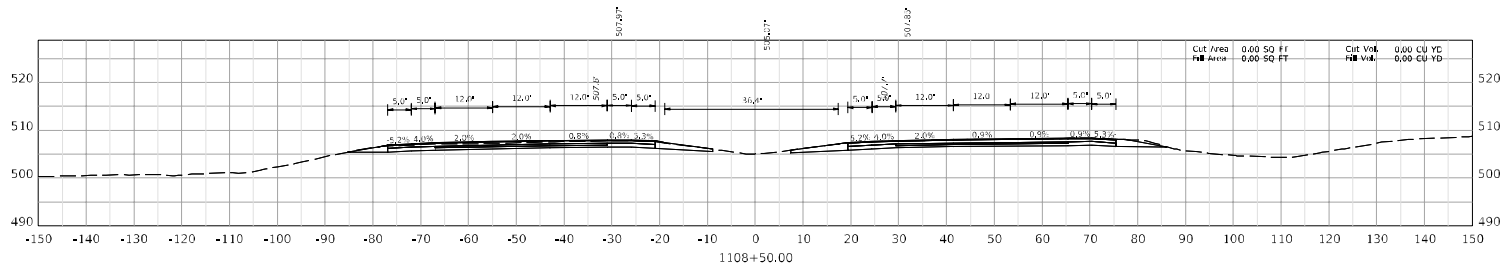
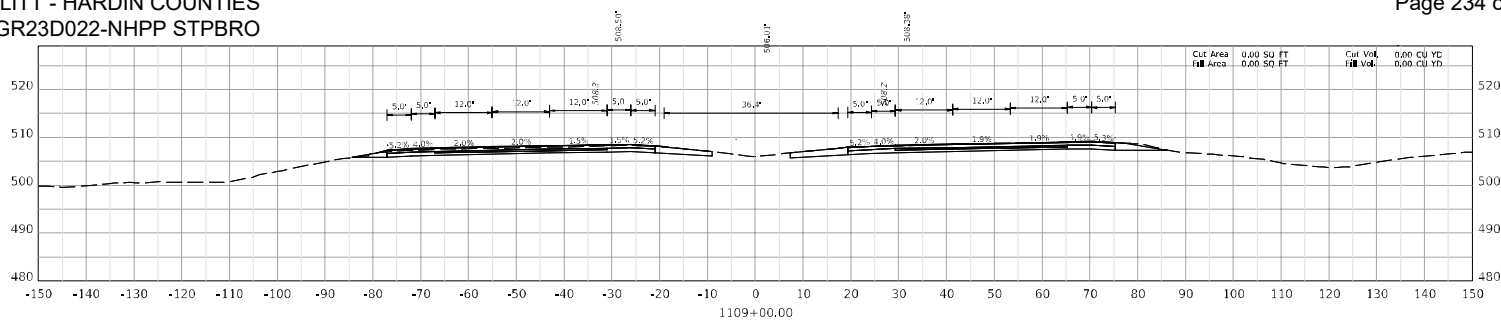
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



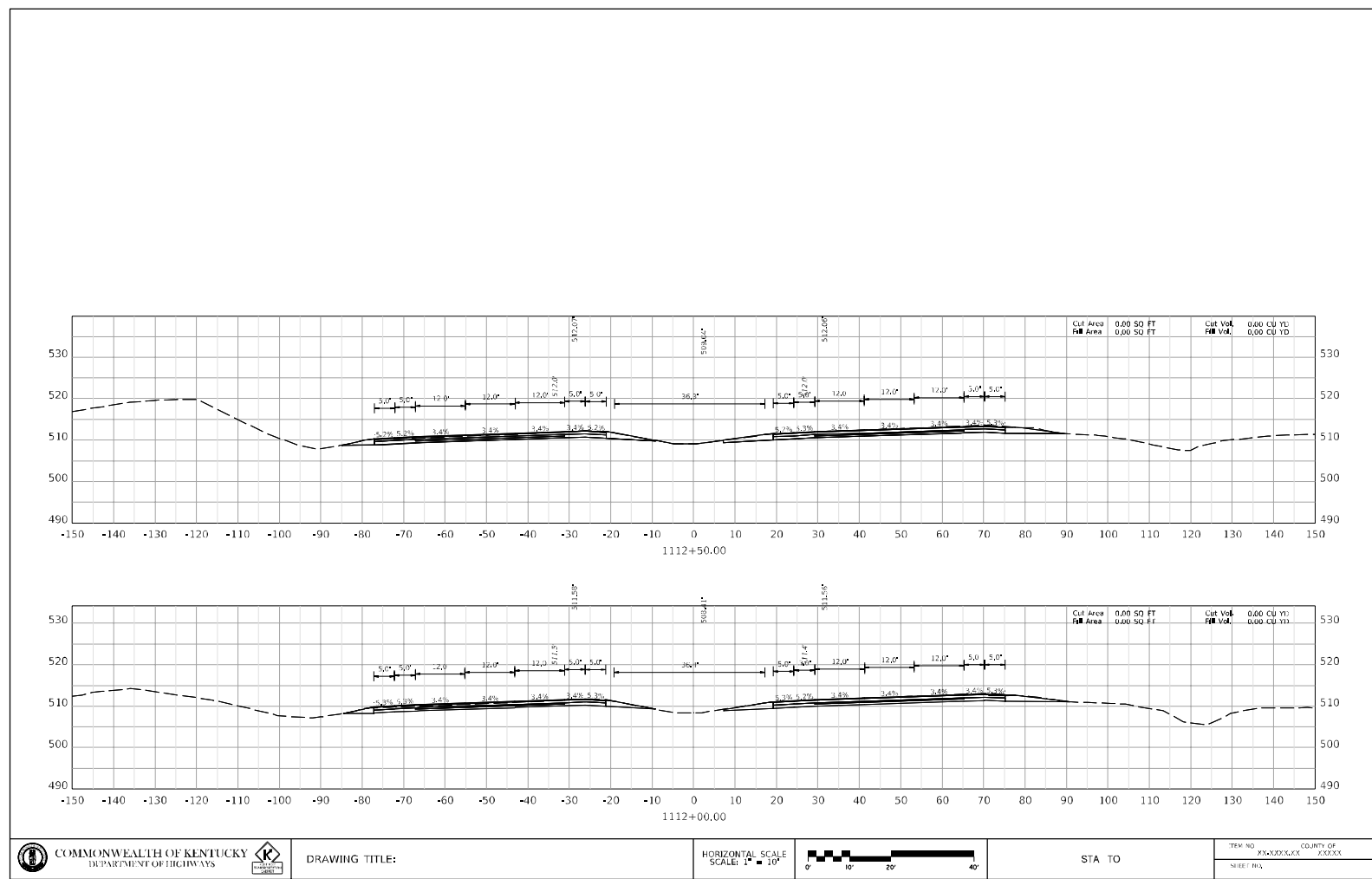
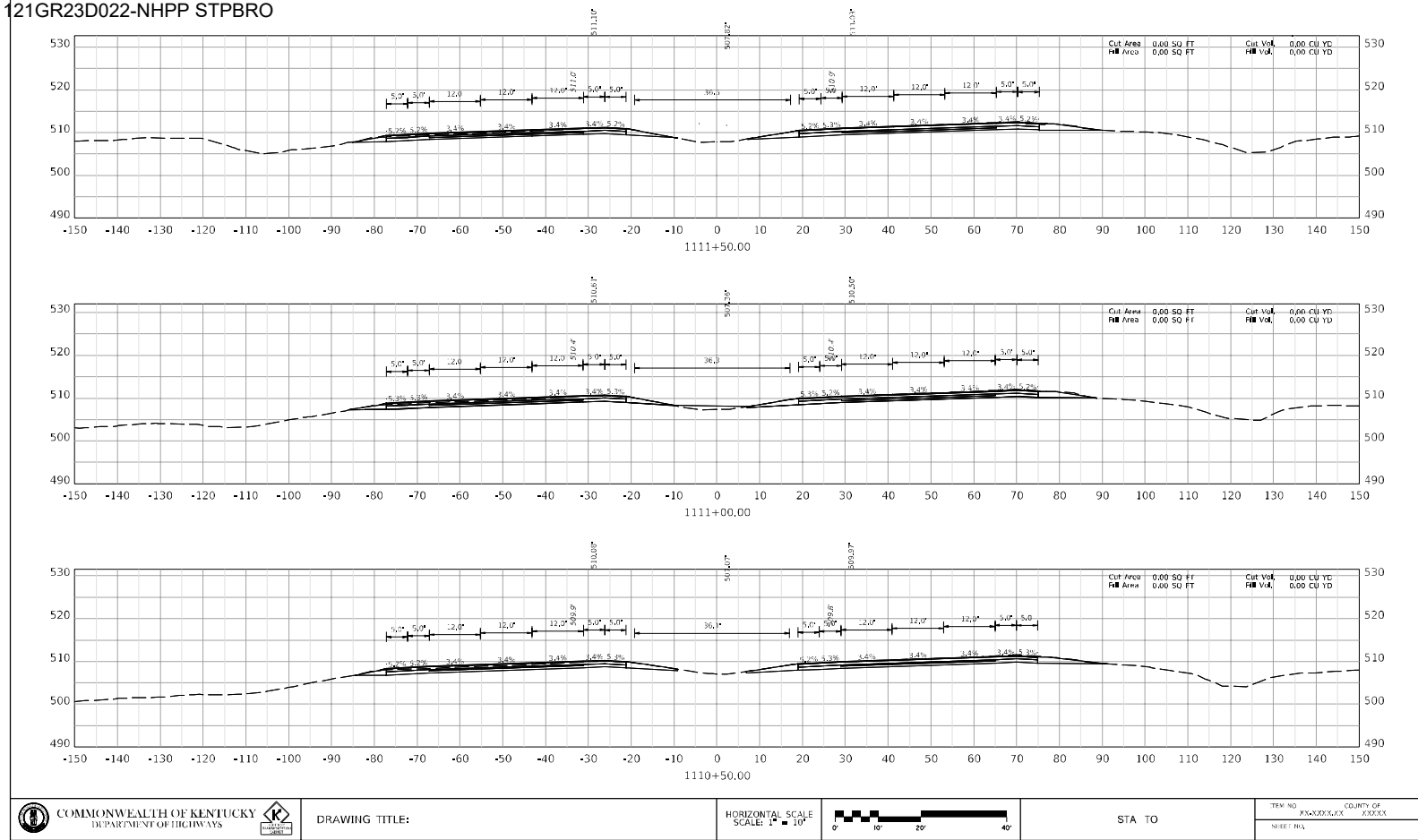
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121GR23D022-NHPP STPBRO



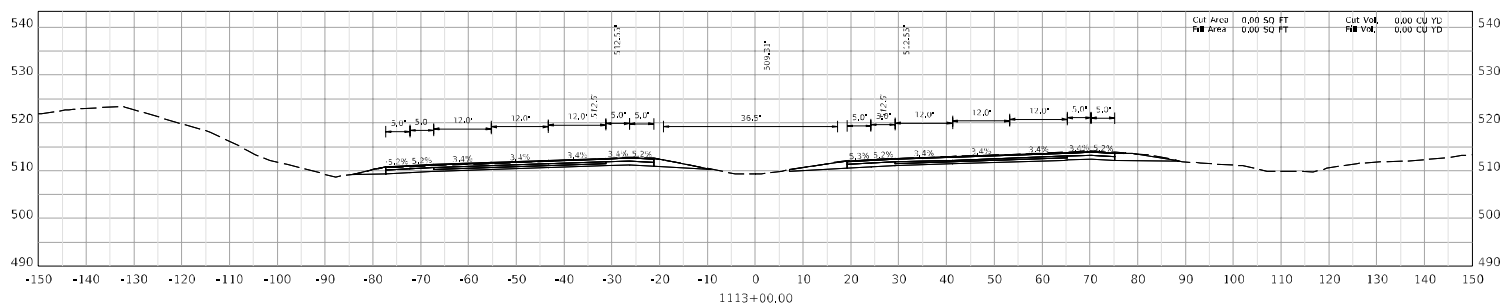
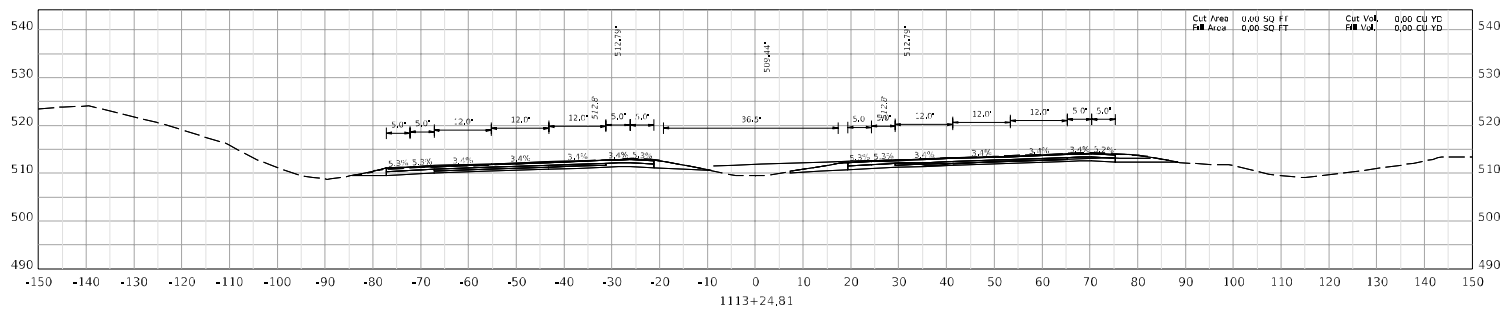
BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO



BULLITT - HARDIN COUNTIES  
121GR23D022-NHPP STPBRO

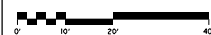


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:

HORIZONTAL SCALE  
SCALE: 1" = 10'



STA TO

ITEM NO. COUNTY OF  
05-22066.00 BULLITT

SHEET NO.  
b 1113+00.00

C:\p00000000\Drawings\121GR23D022-NHPP\121GR23D022-NHPP STPBRO.dwg

USER: jpm@kent

FILE NAME: 121GR23D022-NHPP STPBRO.dwg

Superelevation Report			
I-65 - Bullitt County - 05-22066.00			
Left Outside Lane			
Station	Cross Slope	Point Type	Transition Type
792+99.97	-3.40%	Start Point	
822+70.	-3.40%	Full Super	Linear
823+68.3	-2.00%	Normal Crown	Linear
823+68.97	-2.00%	Normal Crown	Linear
865+00.37	-2.00%	Normal Crown	Linear
866+00.37	0.00%	Level Crown	Linear
866+74.62	2.00%	Reverse Crown	Linear
868+17.91	5.90%	Full Super	Linear
887+77.22	5.90%	Full Super	Linear
889+20.51	2.00%	Reverse Crown	Linear
889+94.76	0.00%	Level Crown	Linear
890+94.76	-2.00%	Normal Crown	Linear
895+02.6	-2.00%	Normal Crown	Linear
895+51.16	-2.00%	Normal Crown	Linear
898+00.	-5.30%	Full Super	Linear
910+00.	-5.30%	Full Super	Linear
912+62.06	-2.00%	Normal Crown	Linear
913+18.51	-2.00%	Normal Crown	Linear
964+22.17	-2.00%	Normal Crown	Linear
978+52.74	-2.00%	Normal Crown	Linear
986+93.43	-2.00%	Normal Crown	Linear
987+93.43	0.00%	Level Crown	Linear
988+88.02	2.00%	Reverse Crown	Linear
990+10.98	4.60%	Full Super	Linear
1001+50.	4.60%	Full Super	Linear
1003+50.	2.00%	Reverse Crown	Linear
1007+00.	0.00%	Level Crown	Linear
1008+00.	-2.00%	Normal Crown	Linear
1010+22.95	-2.00%	Normal Crown	Linear
1010+75.89	-2.00%	Normal Crown	Linear
1011+50.	-7.40%	Full Super	Linear
1025+06.2	-7.40%	Full Super	Linear
1026+69.9	-2.00%	Normal Crown	Linear
1026+98.63	-2.00%	Normal Crown	Linear
1041+13.54	-2.00%	Normal Crown	Linear
1042+13.54	0.00%	Level Crown	Linear
1042+86.06	2.00%	Reverse Crown	Linear
1044+31.08	6.00%	Full Super	Linear
1067+25.	6.00%	Full Super	Linear
1069+85.48	2.00%	Reverse Crown	Linear
1071+15.72	0.00%	Level Crown	Linear
1072+15.72	-2.00%	Normal Crown	Linear
1109+00.	-2.00%	Normal Crown	Linear

1109+31.92	-2.00%	Normal Crown	Linear
1110+21.31	-3.40%	Full Super	Linear
1144+69.2	-3.40%	Full Super	Linear
1145+30.25	-2.00%	Normal Crown	Linear
1145+34.25	-2.00%	Normal Crown	Linear
1148+84.96	-2.00%	Normal Crown	Linear
<b>Left Middle Lane</b>			
<b>Station</b>	<b>Cross Slope</b>	<b>Point Type</b>	<b>Transition Type</b>
792+99.97	-3.40%	Start Point	
822+70.	-3.40%	Full Super	Linear
823+68.3	-2.00%	Normal Crown	Linear
823+68.97	-2.00%	Normal Crown	Linear
865+00.37	-2.00%	Normal Crown	Linear
866+00.37	0.00%	Level Crown	Linear
866+74.62	2.00%	Reverse Crown	Linear
868+17.91	5.90%	Full Super	Linear
887+77.22	5.90%	Full Super	Linear
889+20.51	2.00%	Reverse Crown	Linear
889+94.76	0.00%	Level Crown	Linear
890+94.76	-2.00%	Normal Crown	Linear
895+02.6	-2.00%	Normal Crown	Linear
895+51.16	-2.00%	Normal Crown	Linear
898+00.	-5.30%	Full Super	Linear
910+00.	-5.30%	Full Super	Linear
912+62.06	-2.00%	Normal Crown	Linear
913+18.51	-2.00%	Normal Crown	Linear
964+22.17	-2.00%	Normal Crown	Linear
978+52.74	-2.00%	Normal Crown	Linear
986+93.43	-2.00%	Normal Crown	Linear
987+93.43	0.00%	Level Crown	Linear
988+88.02	2.00%	Reverse Crown	Linear
990+10.98	4.60%	Full Super	Linear
1001+50.	4.60%	Full Super	Linear
1003+50.	2.00%	Reverse Crown	Linear
1007+00.	0.00%	Level Crown	Linear
1008+00.	-2.00%	Normal Crown	Linear
1010+22.95	-2.00%	Normal Crown	Linear
1010+75.89	-2.00%	Normal Crown	Linear
1011+50.	-7.40%	Full Super	Linear
1025+06.2	-7.40%	Full Super	Linear
1026+69.9	-2.00%	Normal Crown	Linear
1026+98.63	-2.00%	Normal Crown	Linear
1041+13.54	-2.00%	Normal Crown	Linear
1042+13.54	0.00%	Level Crown	Linear
1042+86.06	2.00%	Reverse Crown	Linear
1044+31.08	6.00%	Full Super	Linear
1067+25.	6.00%	Full Super	Linear



1069+85.48	2.00%	Reverse Crown	Linear
1071+15.72	0.00%	Level Crown	Linear
1072+15.72	-2.00%	Normal Crown	Linear
1109+00.	-2.00%	Normal Crown	Linear
1109+31.92	-2.00%	Normal Crown	Linear
1110+21.31	-3.40%	Full Super	Linear
1144+69.2	-3.40%	Full Super	Linear
1145+30.25	-2.00%	Normal Crown	Linear
1145+34.25	-2.00%	Normal Crown	Linear
1148+84.96	-2.00%	Normal Crown	Linear
<b>Left Inside Lane</b>			
<b>Station</b>	<b>Cross Slope</b>	<b>Point Type</b>	<b>Transition Type</b>
792+99.97	-3.40%	Start Point	
822+70.	-3.40%	Full Super	Linear
823+68.97	-2.00%	Reverse Crown	Linear
824+55.56	0.00%	Level Crown	Linear
825+55.56	2.00%	Normal Crown	Linear
866+74.62	2.00%	Normal Crown	Linear
868+17.91	5.90%	Full Super	Linear
887+77.22	5.90%	Full Super	Linear
889+20.51	2.00%	Normal Crown	Linear
893+02.6	2.00%	Normal Crown	Linear
894+02.6	0.00%	Level Crown	Linear
895+51.16	-2.00%	Reverse Crown	Linear
898+00.	-5.30%	Full Super	Linear
910+00.	-5.30%	Full Super	Linear
912+62.06	-2.00%	Reverse Crown	Linear
914+18.51	0.00%	Level Crown	Linear
915+18.51	2.00%	Normal Crown	Linear
962+22.17	2.00%	Normal Crown	Linear
963+22.17	0.00%	Level Crown	Linear
964+09.46	-2.00%	Full Super	Linear
978+65.46	-2.00%	Full Super	Linear
979+52.74	0.00%	Level Crown	Linear
980+52.74	2.00%	Normal Crown	Linear
988+88.02	2.00%	Normal Crown	Linear
990+10.98	4.60%	Full Super	Linear
1001+50.	4.60%	Full Super	Linear
1003+50.	2.00%	Normal Crown	Linear
1008+75.89	2.00%	Normal Crown	Linear
1009+75.89	0.00%	Level Crown	Linear
1010+22.95	-2.00%	Reverse Crown	Linear
1011+50.	-7.40%	Full Super	Linear
1025+06.2	-7.40%	Full Super	Linear
1026+98.63	-2.00%	Reverse Crown	Linear
1028+12.61	0.00%	Level Crown	Linear
1029+12.61	2.00%	Normal Crown	Linear

1042+86.06	2.00%	Normal Crown	Linear
1044+31.08	6.00%	Full Super	Linear
1067+25.	6.00%	Full Super	Linear
1069+85.48	2.00%	Normal Crown	Linear
1107+00.	2.00%	Normal Crown	Linear
1108+00.	0.00%	Level Crown	Linear
1109+31.92	-2.00%	Reverse Crown	Linear
1110+21.31	-3.40%	Full Super	Linear
1144+69.2	-3.40%	Full Super	Linear
1145+34.25	-2.00%	Reverse Crown	Linear
1146+30.25	0.00%	Level Crown	Linear
1147+30.25	2.00%	Normal Crown	Linear
1148+84.96	2.00%	Normal Crown	Linear
Right inside Lane			
Station	Cross Slope	Point Type	Transition Type
792+99.97	3.40%	Start Point	
822+70.	3.40%	Full Super	Linear
824+07.32	2.00%	Normal Crown	Linear
864+96.93	2.00%	Normal Crown	Linear
865+96.93	0.00%	Level Crown	Linear
866+72.35	-2.00%	Reverse Crown	Linear
868+17.91	-5.90%	Full Super	Linear
887+77.22	-5.90%	Full Super	Linear
889+22.78	-2.00%	Reverse Crown	Linear
889+98.2	0.00%	Level Crown	Linear
890+98.2	2.00%	Normal Crown	Linear
895+90.7	2.00%	Normal Crown	Linear
899+00.	5.30%	Full Super	Linear
910+00.	5.30%	Full Super	Linear
912+59.9	2.00%	Normal Crown	Linear
986+89.99	2.00%	Normal Crown	Linear
987+89.99	0.00%	Level Crown	Linear
989+37.69	-2.00%	Reverse Crown	Linear
991+30.	-4.60%	Full Super	Linear
1001+00.	-4.60%	Full Super	Linear
1002+98.18	-2.00%	Reverse Crown	Linear
1004+50.4	0.00%	Level Crown	Linear
1005+50.4	2.00%	Normal Crown	Linear
1008+31.24	2.00%	Normal Crown	Linear
1011+50.	7.70%	Full Super	Linear
1025+06.2	7.70%	Full Super	Linear
1026+98.32	2.00%	Normal Crown	Linear
1041+10.1	2.00%	Normal Crown	Linear
1042+10.1	0.00%	Level Crown	Linear
1042+85.39	-2.00%	Reverse Crown	Linear
1044+31.08	-5.90%	Full Super	Linear
1067+25.	-5.90%	Full Super	Linear

1069+84.87	-2.00%	Reverse Crown	Linear
1071+19.17	0.00%	Level Crown	Linear
1072+19.17	2.00%	Normal Crown	Linear
1109+05.06	2.00%	Normal Crown	Linear
1109+75.	3.40%	Full Super	Linear
1144+69.2	3.40%	Full Super	Linear
1145+33.61	2.00%	Normal Crown	Linear
1148+84.96	2.00%	Normal Crown	Linear
<b>Right Middle Lane</b>			
<b>Station</b>	<b>Cross Slope</b>	<b>Point Type</b>	<b>Transition Type</b>
792+99.97	3.40%	Start Point	
822+70.	3.40%	Full Super	Linear
824+07.32	2.00%	Reverse Crown	Linear
825+50.	0.00%	Level Crown	Linear
826+50.	-2.00%	Normal Crown	Linear
866+72.35	-2.00%	Normal Crown	Linear
866+96.93	-2.00%	Normal Crown	Linear
868+17.91	-5.90%	Full Super	Linear
887+77.22	-5.90%	Full Super	Linear
888+98.2	-2.00%	Normal Crown	Linear
889+22.78	-2.00%	Normal Crown	Linear
893+06.05	-2.00%	Normal Crown	Linear
894+06.05	0.00%	Level Crown	Linear
895+90.7	2.00%	Reverse Crown	Linear
899+00.	5.30%	Full Super	Linear
910+00.	5.30%	Full Super	Linear
912+59.9	2.00%	Reverse Crown	Linear
914+15.07	0.00%	Level Crown	Linear
915+15.07	-2.00%	Normal Crown	Linear
962+22.76	-2.00%	Normal Crown	Linear
963+22.76	0.00%	Level Crown	Linear
964+09.46	2.00%	Full Super	Linear
978+65.46	2.00%	Full Super	Linear
982+25.	0.00%	Level Crown	Linear
983+25.	-2.00%	Normal Crown	Linear
988+89.99	-2.00%	Normal Crown	Linear
989+37.69	-2.00%	Normal Crown	Linear
991+30.	-4.60%	Full Super	Linear
1001+00.	-4.60%	Full Super	Linear
1002+98.18	-2.00%	Normal Crown	Linear
1003+50.4	-2.00%	Normal Crown	Linear
1006+18.81	-2.00%	Normal Crown	Linear
1007+18.81	0.00%	Level Crown	Linear
1008+31.24	2.00%	Reverse Crown	Linear
1011+50.	7.70%	Full Super	Linear
1025+06.2	7.70%	Full Super	Linear
1026+98.32	2.00%	Reverse Crown	Linear

1027+66.09	0.00%	Level Crown	Linear
1029+08.8	-2.00%	Normal Crown	Linear
1042+85.39	-2.00%	Normal Crown	Linear
1043+10.1	-2.00%	Normal Crown	Linear
1044+31.08	-5.90%	Full Super	Linear
1067+25.	-5.90%	Full Super	Linear
1069+84.87	-2.00%	Normal Crown	Linear
1070+19.17	-2.00%	Normal Crown	Linear
1107+02.2	-2.00%	Normal Crown	Linear
1108+02.2	0.00%	Level Crown	Linear
1109+05.06	2.00%	Reverse Crown	Linear
1109+75.	3.40%	Full Super	Linear
1144+69.2	3.40%	Full Super	Linear
1145+33.61	2.00%	Reverse Crown	Linear
1146+28.31	0.00%	Level Crown	Linear
1147+28.31	-2.00%	Normal Crown	Linear
1148+84.96	-2.00%	Normal Crown	Linear
Right outside Lane			
Station	Cross Slope	Point Type	Transition Type
792+99.97	3.40%	Start Point	
822+70.	3.40%	Full Super	Linear
824+07.32	2.00%	Reverse Crown	Linear
825+50.	0.00%	Level Crown	Linear
826+50.	-2.00%	Normal Crown	Linear
866+72.35	-2.00%	Normal Crown	Linear
866+96.93	-2.00%	Normal Crown	Linear
868+17.91	-5.90%	Full Super	Linear
887+77.22	-5.90%	Full Super	Linear
888+98.2	-2.00%	Normal Crown	Linear
889+22.78	-2.00%	Normal Crown	Linear
893+06.05	-2.00%	Normal Crown	Linear
894+06.05	0.00%	Level Crown	Linear
895+90.7	2.00%	Reverse Crown	Linear
899+00.	5.30%	Full Super	Linear
910+00.	5.30%	Full Super	Linear
912+59.9	2.00%	Reverse Crown	Linear
914+15.07	0.00%	Level Crown	Linear
915+15.07	-2.00%	Normal Crown	Linear
962+22.76	-2.00%	Normal Crown	Linear
963+22.76	0.00%	Level Crown	Linear
964+09.46	2.00%	Full Super	Linear
978+65.46	2.00%	Full Super	Linear
982+25.	0.00%	Level Crown	Linear
983+25.	-2.00%	Normal Crown	Linear
988+89.99	-2.00%	Normal Crown	Linear
989+37.69	-2.00%	Normal Crown	Linear
991+30.	-4.60%	Full Super	Linear

1001+00.	-4.60%	Full Super	Linear
1002+98.18	-2.00%	Normal Crown	Linear
1003+50.4	-2.00%	Normal Crown	Linear
1006+18.81	-2.00%	Normal Crown	Linear
1007+18.81	0.00%	Level Crown	Linear
1008+31.24	2.00%	Reverse Crown	Linear
1011+50.	7.70%	Full Super	Linear
1025+06.2	7.70%	Full Super	Linear
1026+98.32	2.00%	Reverse Crown	Linear
1027+66.09	0.00%	Level Crown	Linear
1029+08.8	-2.00%	Normal Crown	Linear
1042+85.39	-2.00%	Normal Crown	Linear
1043+10.1	-2.00%	Normal Crown	Linear
1044+31.08	-5.90%	Full Super	Linear
1067+25.	-5.90%	Full Super	Linear
1069+84.87	-2.00%	Normal Crown	Linear
1070+19.17	-2.00%	Normal Crown	Linear
1107+02.2	-2.00%	Normal Crown	Linear
1108+02.2	0.00%	Level Crown	Linear
1109+05.06	2.00%	Reverse Crown	Linear
1109+75.	3.40%	Full Super	Linear
1144+69.2	3.40%	Full Super	Linear
1145+33.61	2.00%	Reverse Crown	Linear
1146+28.31	0.00%	Level Crown	Linear
1147+28.31	-2.00%	Normal Crown	Linear
1148+84.96	-2.00%	Normal Crown	Linear

## **SPECIAL NOTES FOR HTC MEDIAN BARRIER INSTALLATION AND LAYOUT**

### **PAGE 1 OF 2**

The HTC Median Barrier will meet or exceed the specifications documented in the ***SPECIAL NOTE FOR HIGH TENSION CABLE-ROPE MEDIAN BARRIER***. The Contractor may choose any manufacturer of high tension cable-rope so long as their system meets or exceeds specifications documented in the ***SPECIAL NOTE FOR HIGH TENSION CABLE-ROPE MEDIAN BARRIER*** and is on KYTC's **LIST OF APPROVED MATERIALS** (<https://transportation.ky.gov/Materials/Documents/LAM.PDF>). The Contractor shall select and install only one manufacturer's high tension cable barrier system for the entire project. Terminal sections and high tension cable barrier shall be produced by the same manufacturer. A listing of high tension cable-rope manufacturers and their products may be found on the Federal Highway Administration's Safety website for Roadside Hardware Guidance:

([http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/)).

The Contractor shall provide the following documentation to the Engineer a minimum of 14 days prior to installation of the system:

- a) A copy of the appropriate FHWA Acceptance Letters (from NCHRP Report 350 testing) for the HTC system, including one for TL-4 on 6H:1V slopes, TL-3 on 4H:1V, and TL-3 for the terminals/end anchorages.
- b) Two copies of the manufacturer's product brochure, specifications, and installation and maintenance manuals.
- c) Certification signed and stamped by a Professional Engineer licensed in the Commonwealth of Kentucky stating that the final design of the system meets the requirements of the contract documents.
- d) Five copies of the proposed system layout plans clearly depicting installation details, including existing planimetric features (guardrail, safety terminals, edges of pavement/shoulder, ditch line, structures, etc.) and proposed HTC system features (safety terminals, intermediate line posts, and cable-rope location).
- e) One copy of the design drawings and calculations for the safety terminal and intermediate line post foundations for the soil conditions on the project. Design drawings and calculations shall be stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.

Review and acceptance of the proposed design (as shown in the documentation listed above) must occur before the Contractor proceeds with installation. The review will be completed in 14 days.

## **SPECIAL NOTES FOR** **HTC MEDIAN BARRIER INSTALLATION AND LAYOUT**

### **PAGE 2 OF 2**

When developing the proposed system layout, the Contractor and Manufacturer will adhere to the following guidance:

- a) Match the existing distance between the HTC system and the edge of traveled way. Allowances will be made to the offset when the barrier passes by a permanent structure such as a bridge pier or sign truss pedestal. The Engineer will approve any variances to the existing offset.
- b) The HTC system must remain a minimum of 10' up from the median ditch line.
- c) Where possible, shield anchors behind existing roadside safety hardware (i.e. guardrail end treatments, bridge-ends, etc.)

Contrary to Section 111 of the *KYTC Standard Specifications for Road and Bridge Construction (current edition)* no Value Engineering or proposal to modify the specifications of the high tension cable median barrier will be accepted on this project.

The concrete pad mow strip will be constructed per the Section 505 of the *KYTC Standard Specifications for Road and Bridge Construction (current edition)* for concrete sidewalks.

## **SPECIAL NOTE FOR** **HIGH TENSION CABLE-ROPE MEDIAN BARRIER**

Sheet 1 of 4

**DESCRIPTION** This work shall consist of furnishing and installing a high tension cable-rope HTC median barrier with terminals/end anchorages as recommended by the Manufacturer, as directed by the Engineer, and in accordance with the requirements of this special note.

**GENERAL REQUIREMENTS** The HTC median barrier system shall be a four cable-rope system that meets the National Cooperative Highway Research Program (NCHRP) Report 350, Test Level 4 testing for 6H:1V slopes and be accepted by FHWA as such. HTC installed on front slope grades steeper than 6H:1V but 4H:1V or flatter shall be Test Level 3 tested and accepted as such. Each of the four cable-ropes shall be independently anchored to a concrete end-anchor. The terminals/end anchorages shall be tested and accepted under NCHRP Report 350 Test Level 3. Geotechnical information of the project area shall be used by the Manufacturer to design the sizes and depths of the anchors and footings. Intermediate line posts shall be socketed with sleeves set in concrete. The maximum post spacing for the HTC System shall be 10.5 feet, center to center.

**MATERIALS** Samples for testing shall be provided as directed by the Physical Section of the Division of Materials. Contractors shall contact the Physical Section of the Division of Materials at 502-564-3160 for department specific sampling and testing procedures prior to bid. Section references are from the *Kentucky Standard Specifications for Road and Bridge Construction (current edition)*.

Concrete, Class A	Section 601
Steel Reinforcement (Minimum Grade 40 steel)	Section 811
Anchor Bolts and Nuts	Section 813
Galvanizing (Bolts, Nuts & Washers)	AASHTO M 232
Fittings (Steel) Hardware	AASHTO M 30
Reflective Sheeting	Section 830

**Cable-rope** The cable-rope shall be a galvanized  $\frac{3}{4}$  inch diameter, 3x7 wire rope construction meeting AASHTO M30 Type I Class A coating. The wire rope shall be pre-stretched during manufacturing to exhibit a minimum modulus of elasticity of 11,805,090 pounds/inch<sup>2</sup> after pre-stretching. If cable rope or fittings of higher strength were used at the time of NCHRP 350 evaluation, use the higher strength materials.

**Posts** Posts shall be the socketed versions with caps, placed in metal or plastic sleeves installed in a concrete foundation. All posts shall be fabricated from materials meeting ASTM A-36 or greater steel and galvanized after fabrication to A-123. The required welding shall be performed by a certified welder in accordance with AWS D1.1. Posts shall be domestic hot-rolled mild steel, or cold-formed from hot-rolled mild steel. A fitting gasket, profiled to fit tightly around each post, shall be provided to prevent debris from entering the socket.



## **SPECIAL NOTE FOR** **HIGH TENSION CABLE-ROPE MEDIAN BARRIER**

Sheet 2 of 4

**Fittings** Only swaged fittings shall be provided. Field-installed, galvanized-steel fittings (i.e., turnbuckles and splices) shall be one-inch diameter. Smaller fittings may be allowed with written permission from the Division of Design, Division of Construction, and the Division of Materials. Factory applied or stainless steel fittings shall meet AASHTO M30 Type I Class A. Threaded terminals shall be right hand or left hand threaded M24 X 3 pitch to ANSI B 1.13M. The body of the threaded terminal shall provide a minimum of 6 inches wire rope engagement depth. Threaded terminals shall be either stainless steel or galvanized, after processing, to ASTM A-153.

**Turnbuckles** Turnbuckles (i.e. Rigging Screws) shall be threaded to accept the fitting described above. Turnbuckles may be either the open or closed body type (with two inspection holes to determine threaded rope terminal penetration). The turnbuckles shall allow for a minimum of 6 inches of penetration from each end. Turnbuckles shall meet AASHTO M30 Type I Class A and shall be either stainless steel or galvanized, after processing, to ASTM A-153.

**Mechanical Anchor Fittings** Fittings shall be provided at the anchor termination of each cable-rope and shall be of the same type as used in the connection to the turnbuckles. The fittings shall meet AASHTO M30 Type I Class A yielding, shall be capable of release and reuse, and shall be either stainless steel or galvanized, after processing, to ASTM A-153.

**End Terminals** End Terminals placed within the clear zone, as defined by AASHTO Roadside Design Guide, shall be NCHRP Report 350 compliant, meeting Test Level 3 (TL-3) requirements, and having an FHWA letter of acceptance. Other terminals may be used in locations where impacts are unlikely or if properly shielded by impact attenuator, if approved by the Engineer. Each of the four cable-ropes of the system shall have separate anchor connections to the terminal end section. End anchors shall be fabricated from materials meeting ASTM A-36 and galvanized after fabrication to A-123. All welding shall be performed by a certified welder in accordance with AWS D1.1.

**CONSTRUCTION** The Contractor shall install high tension cable-rope barrier system according to the manufacturer's design and recommendation. Prior to construction, the proposed layout and location of the HTC System will be approved by the Department. The posts shall be installed plumb and in accordance with the proposed layout, spacing, and location shown in the HTC System layout plans as approved by the Department.

Turnbuckles shall be included to allow for tensioning of the cable-ropes. For installations greater than 1,000 feet in length, at least one Turnbuckle per 1,000 feet shall be included per length of cable-rope. For installations less than 1,000 feet in length, one Turnbuckle per length of cable-rope shall be included near the center of the installation.

## **SPECIAL NOTE FOR** **HIGH TENSION CABLE-ROPE MEDIAN BARRIER**

Sheet 3 of 4

Extreme care shall be taken in ensuring proper cable-rope height. The area shall be relatively smooth, without edge drop-offs, holes, other depressions or abrupt slope changes between the edge of the traveled way and the cable-rope barrier system.

The HTC System shall be placed and tensioned immediately after initial installation per the manufacturer's recommendations. Tension shall be rechecked approximately two (2) to three (3) weeks after initial tensioning and adjusted, if necessary. A tension log form shall be completed showing the time, date, location, ambient temperature, and final tension reading, signed by the person performing the tension reading. This log shall be furnished to the Engineer upon completion of work. This form shall also include the manufacturer's recommended tension chart.

Line post shall be socketed with sleeves set in concrete. The minimum diameter for the line post foundations shall be 12 inches. Minimum installation depth for the concrete line posts footings shall be 36-inches for non-rock installation. Greater depths may be required for non-rock installation due to manufacturer's recommendations based on soil information as shown in this proposal. Depths and requirements for installations in rock shall be based on manufacturer's recommendations.

The HTC System shall be delineated with retro-reflective sheeting. The delineation shall be applied to the last five posts at each end of an installation and throughout the remainder of the installation at a maximum spacing of 50 feet. The delineation shall provide a minimum of seven square inches of area when viewed on a line parallel to the roadway centerline. For median installations, the sheeting shall be applied to both sides of the post. The delineation shall be attached near the top of the posts as recommended by the manufacturer. The sheeting shall be yellow or white and shall be the same color as the adjacent edge line.

Contractor shall not allow traffic to be exposed to trenching and/or excavated post anchor holes for longer than one working shift, as directed by the Engineer.

**SPECIAL NOTE FOR**

**HIGH TENSION CABLE-ROPE MEDIAN BARRIER**

Sheet 4 of 4

**MEASUREMENT**

**High Tension Cable-Rope Barrier** will be measured by the linear foot. Any costs associated with the cable-rope, intermediate line posts, line post foundations, cable-rope tensioning, reflective sheeting, and all necessary incidentals shall be included in the price bid for this item.

**End Anchors** will be measured by each unit. The Contractor's proposed layout and location plans will specify the type and number of end terminals required. Any costs associated with the excavation, reinforcing steel, concrete, and other incidentals shall be included in the price bid for this item. End anchor pay limits vary by manufacturer. See manufacturers shop drawings for details.

**PAYMENT**

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
23147EN	HIGH TENSION CABLE-ROPE BARRIER	LINEAR FOOT
23148EN	END ANCHORS	EACH

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

# MATERIAL SUMMARY

**CONTRACT ID: 231322**

**121GR23D022-NHPP STPBRO**

**DE01500652319**

ELIZABETHTOWN-LOUISVILLE ROAD (I-65) BEGINNING AT MP 104.700 EXTENDING NORTH TO MP 110.700  
ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF 6 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0205	00003	CRUSHED STONE BASE - (REVISED 5-23-23)	236,668.00	TON
0210	00008	CEMENT STABILIZED ROADBED	137,984.00	SQYD
0215	00013	LIME STABILIZED ROADBED	137,984.00	SQYD
0220	00014	LIME	1,788.00	TON
0225	00100	ASPHALT SEAL AGGREGATE - (REVISED 5-23-23)	936.00	TON
0230	00103	ASPHALT SEAL COAT - (REVISED 5-23-23)	112.00	TON
0235	00208	CL4 ASPH BASE 1.50D PG64-22	64,888.00	TON
0240	00214	CL3 ASPH BASE 1.00D PG64-22 - (REVISED 5-23-23)	46,493.00	TON
0245	00217	CL4 ASPH BASE 1.00D PG64-22 - (REVISED 5-23-23)	49,682.00	TON
0250	00219	CL4 ASPH BASE 1.00D PG76-22	48,895.00	TON
0255	00339	CL3 ASPH SURF 0.38D PG64-22 - (REVISED 5-23-23)	9,671.00	TON
0260	00342	CL4 ASPH SURF 0.38A PG76-22	23,701.00	TON
0265	00358	ASPHALT CURING SEAL	276.00	TON
0270	02060	PCC PAVEMENT DIAMOND GRINDING	11,299.00	SQYD
0275	02542	CEMENT	2,682.00	TON
0280	02702	SAND FOR BLOTTER	345.00	TON
0285	20071EC	JOINT ADHESIVE	126,125.00	LF
0290	24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT	9,553,940.00	SF
0295	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	271.00	TON
0300	01891	ISLAND HEADER CURB TYPE 2	164.00	LF
0305	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	75.00	EACH
0310	01983	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	17.00	EACH
0315	01985	DELINEATOR FOR BARRIER - YELLOW	748.00	EACH
0320	02003	RELOCATE TEMP CONC BARRIER	63,360.00	LF
0325	02058	REMOVE PCC PAVEMENT	400,333.00	SQYD
0330	02200	ROADWAY EXCAVATION	63,833.00	CUYD
0335	02237	DITCHING	8,235.00	LF
0340	02351	GUARDRAIL-STEEL W BEAM-S FACE	5,377.00	LF
0345	02352	GUARDRAIL-STEEL W BEAM-D FACE	325.00	LF
0350	02360	GUARDRAIL TERMINAL SECTION NO 1	3.00	EACH
0355	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	6.00	EACH
0360	02365	CRASH CUSHION TYPE IX-A	3.00	EACH
0365	02367	GUARDRAIL END TREATMENT TYPE 1	10.00	EACH
0370	02369	GUARDRAIL END TREATMENT TYPE 2A	11.00	EACH
0375	02381	REMOVE GUARDRAIL	6,377.00	LF
0380	02387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	1.00	EACH
0385	02397	TEMP GUARDRAIL	2,000.00	LF
0390	02562	TEMPORARY SIGNS	2,242.00	SQFT
0395	02650	MAINTAIN & CONTROL TRAFFIC - (5-22066.00)	1.00	LS
0400	02655	CROSSOVER - (#1)	1.00	LS
0405	02655	CROSSOVER - (#2)	1.00	LS
0410	02655	CROSSOVER - (#3)	1.00	LS

## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0415	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH
0420	02696	SHOULDER RUMBLE STRIPS	113,541.00	LF
0425	02726	STAKING - (5-22066.00)	1.00	LS
0430	02775	ARROW PANEL	2.00	EACH
0435	03171	CONCRETE BARRIER WALL TYPE 9T	33,889.00	LF
0440	06401	FLEXIBLE DELINEATOR POST-M/W	356.00	EACH
0445	06511	PAVE STRIPING-TEMP PAINT-6 IN	295,654.00	LF
0450	06542	PAVE STRIPING-THERMO-6 IN W	91,901.00	LF
0455	06543	PAVE STRIPING-THERMO-6 IN Y	63,286.00	LF
0460	06546	PAVE STRIPING-THERMO-12 IN W	2,380.00	LF
0465	06549	PAVE STRIPING-TEMP REM TAPE-B	2,500.00	LF
0470	06550	PAVE STRIPING-TEMP REM TAPE-W	79,580.00	LF
0475	06551	PAVE STRIPING-TEMP REM TAPE-Y	63,814.00	LF
0480	06556	PAVE STRIPING-DUR TY 1-6 IN W	8,065.00	LF
0485	06557	PAVE STRIPING-DUR TY 1-6 IN Y	6,568.00	LF
0490	06585	PAVEMENT MARKER TY IVA-MW TEMP	331.00	EACH
0495	06586	PAVEMENT MARKER TY IVA-MY TEMP	192.00	EACH
0500	06613	INLAID PAVEMENT MARKER-B W/R	1,513.00	EACH
0505	06614	INLAID PAVEMENT MARKER-B Y/R	79.00	EACH
0510	08903	CRASH CUSHION TY VI CLASS BT TL3	4.00	EACH
0515	10020NS	FUEL ADJUSTMENT - (REVISED 5-23-23)	501,661.00	DOLL
0520	10030NS	ASPHALT ADJUSTMENT - (REVISED 5-23-23)	951,323.00	DOLL
0525	20191ED	OBJECT MARKER TY 3	10.00	EACH
0530	20411ED	LAW ENFORCEMENT OFFICER	300.00	HOURL
0535	20432ES112	REMOVE CRASH CUSHION	3.00	EACH
0540	23147EN	HIGH TENSION CABLE-ROPE BARRIER - (REVISED 5-23-23)	9,938.00	LF
0545	23148EN	END ANCHORS - (REVISED 5-23-23)	9.00	EACH
0550	23265ES717	PAVE MARK TY 1 TAPE STOP BAR-24 IN	126.00	LF
0555	24255EC	REMOVE CABLE GUARDRAIL BARRIER SYSTEM - (REVISED 5-23-23)	9,361.00	LF
0560	24640ED	OBJECT MARKER TYPE 1	3.00	EACH
0565	25075EC	QUEUE PROTECTION VEHICLE	720.00	HOURL
0570	25117EC	FURNISH QUEUE PROTECTION VEHICLES	18.00	MONT
0575	26136EC	PORTABLE QUEUE WARNING ALERT SYSTEM	18.00	MONT
0580	26137EC	QUEUE WARNING PCMS	108.00	MONT
0585	26138EC	QUEUE WARNING PORTABLE RADAR SENSORS	108.00	MONT
0590	04793	CONDUIT-1 1/4 IN	40.00	LF
0595	04795	CONDUIT-2 IN	75.00	LF
0600	04820	TRENCHING AND BACKFILLING	115.00	LF
0605	04829	PIEZOELECTRIC SENSOR	12.00	EACH
0610	04830	LOOP WIRE	7,500.00	LF
0615	04895	LOOP SAW SLOT AND FILL	675.00	LF
0620	20391NS835	ELECTRICAL JUNCTION BOX TYPE A	5.00	EACH
0625	02568	MOBILIZATION	1.00	LS
0630	02569	DEMOBILIZATION	1.00	LS
0635	02742	TRAINEE PAYMENT REIMBURSEMENT - GROUP 2, 3, OR 4 OPERATOR	1,400.00	HOURL
0640	00078	CRUSHED AGGREGATE SIZE NO 2 - (ADDED 5-23-23)	79.00	TON
0645	01006	PERFORATED PIPE EDGE DRAIN-6 IN - (ADDED 5-23-23)	24,127.00	LF

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0650	01011	NON-PERFORATED PIPE-6 IN - (ADDED 5-23-23)	751.00	LF
0655	01033	PERF PIPE HEADWALL TY 4-6 IN - (ADDED 5-23-23)	79.00	EACH
0660	02159	TEMP DITCH - (ADDED 5-23-23)	15,840.00	LF
0665	02160	CLEAN TEMP DITCH - (ADDED 5-23-23)	7,920.00	LF
0670	02701	TEMP SILT FENCE - (ADDED 5-23-23)	15,840.00	LF
0675	02703	SILT TRAP TYPE A - (ADDED 5-23-23)	22.00	EACH
0680	02704	SILT TRAP TYPE B - (ADDED 5-23-23)	22.00	EACH
0685	02705	SILT TRAP TYPE C - (ADDED 5-23-23)	22.00	EACH
0690	02706	CLEAN SILT TRAP TYPE A - (ADDED 5-23-23)	22.00	EACH
0695	02707	CLEAN SILT TRAP TYPE B - (ADDED 5-23-23)	22.00	EACH
0700	02708	CLEAN SILT TRAP TYPE C - (ADDED 5-23-23)	22.00	EACH
0705	02898	RELOCATE CRASH CUSHION - (ADDED 5-23-23)	2.00	EACH
0710	05950	EROSION CONTROL BLANKET - (ADDED 5-23-23)	5,490.00	SQYD
0715	05952	TEMP MULCH - (ADDED 5-23-23)	70,400.00	SQYD
0720	05953	TEMP SEEDING AND PROTECTION - (ADDED 5-23-23)	52,800.00	SQYD
0725	05963	INITIAL FERTILIZER - (ADDED 5-23-23)	5.00	TON
0730	05964	MAINTENANCE FERTILIZER - (ADDED 5-23-23)	3.00	TON
0735	05985	SEEDING AND PROTECTION - (ADDED 5-23-23)	105,600.00	SQYD

MATERIAL SUMMARY

CONTRACT ID: 231322                      121GR23D022-NHPP STPBRO                      MB04700652301

ELIZABETHTOWN-LOUISVILLE ROAD (I-65) BRIDGE (B00133L) OVER ROLLING FORK RIVER AT MP 103.28.  
BRIDGE REPAIRS.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0105	02403	REMOVE CONCRETE MASONRY	75.00	CUYD
0110	03295	EXPAN JOINT REPLACE 2 IN	56.00	LF
0115	03298	EXPAN JOINT REPLACE 4 IN	56.00	LF
0120	03299	ARMORED EDGE FOR CONCRETE	224.00	LF
0125	03305	RESET BEARING SHOE - - 047B00133L	5.00	EACH
0130	08104	CONCRETE-CLASS AA	75.00	CUYD
0135	08140	MECHANICAL REINF COUPLER #5 EPOXY COATED	76.00	EACH
0140	08141	MECHANICAL REINF COUPLER #6 EPOXY COATED	76.00	EACH
0145	08151	STEEL REINFORCEMENT-EPOXY COATED	23,646.00	LB
0150	08170	SHEAR CONNECTORS	1.00	LS
0155	08435	JACK & SUPPORT BRIDGE SPAN - - 047B00133L	1.00	LS
0160	20600NC	DECK DRAIN EXTENSION - - 047B00133L	11.00	EACH
0165	21650NN	BOLT/RIVET REPLACEMENT - - 047B00133L	8.00	EACH
0170	23218EC	FLOORBEAM REPAIR - - 047B00133L	5.00	EACH
0175	23813EC	DECK DRAIN	2.00	EACH
0180	24405EC	MECHANICAL REINF COUPLER-#8 EPOXY COATED	128.00	EACH
0185	24692EC	DECK DRAIN RETROFIT - - 047B00133L	1.00	EACH
0190	24879EC	STEEL REPAIR - - 047B00133L - WIND LOCK	4.00	EACH
0195	24981EC	BRIDGE CLEANING - B00133L	1.00	LS
0200	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 231322                      121GR23D022-NHPP STPBRO                      MB04700652302

ELIZABETHTOWN-LOUISVILLE ROAD (I-65) BRIDGE (B00133R) OVER ROLLING FORK RIVER AT MP 103.28.  
BRIDGE REPAIRS.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02403	REMOVE CONCRETE MASONRY	75.00	CUYD
0010	03295	EXPAN JOINT REPLACE 2 IN	56.00	LF
0015	03298	EXPAN JOINT REPLACE 4 IN	56.00	LF
0020	03299	ARMORED EDGE FOR CONCRETE	224.00	LF
0025	03305	RESET BEARING SHOE - - 047B00133R	5.00	EACH
0030	08104	CONCRETE-CLASS AA	75.00	CUYD
0035	08140	MECHANICAL REINF COUPLER #5 EPOXY COATED	76.00	EACH
0040	08141	MECHANICAL REINF COUPLER #6 EPOXY COATED	76.00	EACH
0045	08151	STEEL REINFORCEMENT-EPOXY COATED	23,646.00	LB
0050	08170	SHEAR CONNECTORS	1.00	LS
0055	08435	JACK & SUPPORT BRIDGE SPAN - - 047B00133R	1.00	LS
0060	20600NC	DECK DRAIN EXTENSION - - 047B00133R	11.00	EACH
0065	21650NN	BOLT/RIVET REPLACEMENT - - 047B00133R	43.00	EACH
0070	23218EC	FLOORBEAM REPAIR - - 047B00133R	2.00	EACH
0075	23813EC	DECK DRAIN	2.00	EACH
0080	24405EC	MECHANICAL REINF COUPLER-#8 EPOXY COATED	128.00	EACH
0085	24879EC	STEEL REPAIR - - 047B00133R - BEARING STIFFENER	3.00	EACH
0090	24879EC	STEEL REPAIR - - 047B00133R - WIND LOCK	4.00	EACH
0095	24981EC	BRIDGE CLEANING - B00133R	1.00	LS
0100	02569	DEMOBILIZATION	1.00	LS



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### Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE (REVISED 5-23-23)	236,668.00	TON		\$	
0020	00008		CEMENT STABILIZED ROADBED	137,984.00	SQYD		\$	
0030	00013		LIME STABILIZED ROADBED	137,984.00	SQYD		\$	
0040	00014		LIME	1,788.00	TON		\$	
0050	00100		ASPHALT SEAL AGGREGATE (REVISED 5-23-23)	936.00	TON		\$	
0060	00103		ASPHALT SEAL COAT (REVISED 5-23-23)	112.00	TON		\$	
0070	00208		CL4 ASPH BASE 1.50D PG64-22	64,888.00	TON		\$	
0080	00214		CL3 ASPH BASE 1.00D PG64-22 (REVISED 5-23-23)	46,493.00	TON		\$	
0090	00217		CL4 ASPH BASE 1.00D PG64-22 (REVISED 5-23-23)	49,682.00	TON		\$	
0100	00219		CL4 ASPH BASE 1.00D PG76-22	48,895.00	TON		\$	
0110	00339		CL3 ASPH SURF 0.38D PG64-22 (REVISED 5-23-23)	9,671.00	TON		\$	
0120	00342		CL4 ASPH SURF 0.38A PG76-22	23,701.00	TON		\$	
0130	00358		ASPHALT CURING SEAL	276.00	TON		\$	
0140	02060		PCC PAVEMENT DIAMOND GRINDING	11,299.00	SQYD		\$	
0150	02542		CEMENT	2,682.00	TON		\$	
0160	02702		SAND FOR BLOTTER	345.00	TON		\$	
0170	20071EC		JOINT ADHESIVE	126,125.00	LF		\$	
0180	24891EC		PAVE MOUNT INFRARED TEMP EQUIPMENT	9,553,940.00	SF		\$	
0190	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	271.00	TON		\$	

### Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0191	00078		CRUSHED AGGREGATE SIZE NO 2 (ADDED 5-23-23)	79.00	TON		\$	
0192	01006		PERFORATED PIPE EDGE DRAIN-6 IN (ADDED 5-23-23)	24,127.00	LF		\$	
0193	01011		NON-PERFORATED PIPE-6 IN (ADDED 5-23-23)	751.00	LF		\$	
0194	01033		PERF PIPE HEADWALL TY 4-6 IN (ADDED 5-23-23)	79.00	EACH		\$	
0200	01891		ISLAND HEADER CURB TYPE 2	164.00	LF		\$	
0210	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	75.00	EACH		\$	
0220	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	17.00	EACH		\$	
0230	01985		DELINEATOR FOR BARRIER - YELLOW	748.00	EACH		\$	
0240	02003		RELOCATE TEMP CONC BARRIER	63,360.00	LF		\$	
0250	02058		REMOVE PCC PAVEMENT	400,333.00	SQYD		\$	
0252	02159		TEMP DITCH (ADDED 5-23-23)	15,840.00	LF		\$	
0254	02160		CLEAN TEMP DITCH (ADDED 5-23-23)	7,920.00	LF		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0260	02200		ROADWAY EXCAVATION	63,833.00	CUYD		\$	
0270	02237		DITCHING	8,235.00	LF		\$	
0280	02351		GUARDRAIL-STEEL W BEAM-S FACE	5,377.00	LF		\$	
0290	02352		GUARDRAIL-STEEL W BEAM-D FACE	325.00	LF		\$	
0300	02360		GUARDRAIL TERMINAL SECTION NO 1	3.00	EACH		\$	
0310	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	6.00	EACH		\$	
0320	02365		CRASH CUSHION TYPE IX-A	3.00	EACH		\$	
0330	02367		GUARDRAIL END TREATMENT TYPE 1	10.00	EACH		\$	
0340	02369		GUARDRAIL END TREATMENT TYPE 2A	11.00	EACH		\$	
0350	02381		REMOVE GUARDRAIL	6,377.00	LF		\$	
0360	02387		GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	1.00	EACH		\$	
0370	02397		TEMP GUARDRAIL	2,000.00	LF		\$	
0380	02562		TEMPORARY SIGNS	2,242.00	SQFT		\$	
0390	02650		MAINTAIN & CONTROL TRAFFIC (5-22066.00)	1.00	LS		\$	
0400	02655		CROSSOVER (#1)	1.00	LS		\$	
0410	02655		CROSSOVER (#2)	1.00	LS		\$	
0420	02655		CROSSOVER (#3)	1.00	LS		\$	
0430	02671		PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH		\$	
0440	02696		SHOULDER RUMBLE STRIPS	113,541.00	LF		\$	
0441	02701		TEMP SILT FENCE (ADDED 5-23-23)	15,840.00	LF		\$	
0442	02703		SILT TRAP TYPE A (ADDED 5-23-23)	22.00	EACH		\$	
0443	02704		SILT TRAP TYPE B (ADDED 5-23-23)	22.00	EACH		\$	
0444	02705		SILT TRAP TYPE C (ADDED 5-23-23)	22.00	EACH		\$	
0445	02706		CLEAN SILT TRAP TYPE A (ADDED 5-23-23)	22.00	EACH		\$	
0446	02707		CLEAN SILT TRAP TYPE B (ADDED 5-23-23)	22.00	EACH		\$	
0447	02708		CLEAN SILT TRAP TYPE C (ADDED 5-23-23)	22.00	EACH		\$	
0450	02726		STAKING (5-22066.00)	1.00	LS		\$	
0460	02775		ARROW PANEL	2.00	EACH		\$	
0462	02898		RELOCATE CRASH CUSHION (ADDED 5-23-23)	2.00	EACH		\$	
0470	03171		CONCRETE BARRIER WALL TYPE 9T	33,889.00	LF		\$	
0471	05950		EROSION CONTROL BLANKET (ADDED 5-23-23)	5,490.00	SQYD		\$	
0472	05952		TEMP MULCH (ADDED 5-23-23)	70,400.00	SQYD		\$	
0473	05953		TEMP SEEDING AND PROTECTION (ADDED 5-23-23)	52,800.00	SQYD		\$	
0474	05963		INITIAL FERTILIZER (ADDED 5-23-23)	5.00	TON		\$	
0475	05964		MAINTENANCE FERTILIZER (ADDED 5-23-23)	3.00	TON		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0476	05985		SEEDING AND PROTECTION (ADDED 5-23-23)	105,600.00	SQYD		\$	
0480	06401		FLEXIBLE DELINEATOR POST-M/W	356.00	EACH		\$	
0490	06511		PAVE STRIPING-TEMP PAINT-6 IN	295,654.00	LF		\$	
0500	06542		PAVE STRIPING-THERMO-6 IN W	91,901.00	LF		\$	
0510	06543		PAVE STRIPING-THERMO-6 IN Y	63,286.00	LF		\$	
0520	06546		PAVE STRIPING-THERMO-12 IN W	2,380.00	LF		\$	
0530	06549		PAVE STRIPING-TEMP REM TAPE-B	2,500.00	LF		\$	
0540	06550		PAVE STRIPING-TEMP REM TAPE-W	79,580.00	LF		\$	
0550	06551		PAVE STRIPING-TEMP REM TAPE-Y	63,814.00	LF		\$	
0560	06556		PAVE STRIPING-DUR TY 1-6 IN W	8,065.00	LF		\$	
0570	06557		PAVE STRIPING-DUR TY 1-6 IN Y	6,568.00	LF		\$	
0580	06585		PAVEMENT MARKER TY IVA-MW TEMP	331.00	EACH		\$	
0590	06586		PAVEMENT MARKER TY IVA-MY TEMP	192.00	EACH		\$	
0600	06613		INLAID PAVEMENT MARKER-B W/R	1,513.00	EACH		\$	
0610	06614		INLAID PAVEMENT MARKER-B Y/R	79.00	EACH		\$	
0620	08903		CRASH CUSHION TY VI CLASS BT TL3	4.00	EACH		\$	
0630	10020NS		FUEL ADJUSTMENT (REVISED 5-23-23)	501,661.00	DOLL	\$1.00	\$	\$501,661.00
0640	10030NS		ASPHALT ADJUSTMENT (REVISED 5-23-23)	951,323.00	DOLL	\$1.00	\$	\$951,323.00
0650	20191ED		OBJECT MARKER TY 3	10.00	EACH		\$	
0660	20411ED		LAW ENFORCEMENT OFFICER	300.00	HOURL		\$	
0670	20432ES112		REMOVE CRASH CUSHION	3.00	EACH		\$	
0680	23147EN		HIGH TENSION CABLE-ROPE BARRIER (REVISED 5-23-23)	9,938.00	LF		\$	
0690	23148EN		END ANCHORS (REVISED 5-23-23)	9.00	EACH		\$	
0700	23265ES717		PAVE MARK TY 1 TAPE STOP BAR-24 IN	126.00	LF		\$	
0710	24255EC		REMOVE CABLE GUARDRAIL BARRIER SYSTEM (REVISED 5-23-23)	9,361.00	LF		\$	
0720	24640ED		OBJECT MARKER TYPE 1	3.00	EACH		\$	
0730	25075EC		QUEUE PROTECTION VEHICLE	720.00	HOURL		\$	
0740	25117EC		FURNISH QUEUE PROTECTION VEHICLES	18.00	MONT		\$	
0750	26136EC		PORTABLE QUEUE WARNING ALERT SYSTEM	18.00	MONT		\$	
0760	26137EC		QUEUE WARNING PCMS	108.00	MONT		\$	
0770	26138EC		QUEUE WARNING PORTABLE RADAR SENSORS	108.00	MONT		\$	

### Section: 0003 - BRIDGE - B00133L

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0780	02403		REMOVE CONCRETE MASONRY	75.00	CUYD		\$	
0790	03295		EXPAN JOINT REPLACE 2 IN	56.00	LF		\$	
0800	03298		EXPAN JOINT REPLACE 4 IN	56.00	LF		\$	
0810	03299		ARMORED EDGE FOR CONCRETE	224.00	LF		\$	
0820	03305		RESET BEARING SHOE - 047B00133L	5.00	EACH		\$	
0830	08104		CONCRETE-CLASS AA	75.00	CUYD		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0840	08140		MECHANICAL REINF COUPLER #5 EPOXY COATED	76.00	EACH		\$	
0850	08141		MECHANICAL REINF COUPLER #6 EPOXY COATED	76.00	EACH		\$	
0860	08151		STEEL REINFORCEMENT-EPOXY COATED	23,646.00	LB		\$	
0870	08170		SHEAR CONNECTORS	1.00	LS		\$	
0880	08435		JACK & SUPPORT BRIDGE SPAN - 047B00133L	1.00	LS		\$	
0890	20600NC		DECK DRAIN EXTENSION - 047B00133L	11.00	EACH		\$	
0900	21650NN		BOLT/RIVET REPLACEMENT - 047B00133L	8.00	EACH		\$	
0910	23218EC		FLOORBEAM REPAIR - 047B00133L	5.00	EACH		\$	
0920	23813EC		DECK DRAIN	2.00	EACH		\$	
0930	24405EC		MECHANICAL REINF COUPLER-#8 EPOXY COATED	128.00	EACH		\$	
0940	24692EC		DECK DRAIN RETROFIT - 047B00133L	1.00	EACH		\$	
0950	24879EC		STEEL REPAIR - 047B00133L - WIND LOCK	4.00	EACH		\$	
0960	24981EC		BRIDGE CLEANING B00133L	1.00	LS		\$	

### Section: 0004 - BRIDGE - B00133R

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0970	02403		REMOVE CONCRETE MASONRY	75.00	CUYD		\$	
0980	03295		EXPAN JOINT REPLACE 2 IN	56.00	LF		\$	
0990	03298		EXPAN JOINT REPLACE 4 IN	56.00	LF		\$	
1000	03299		ARMORED EDGE FOR CONCRETE	224.00	LF		\$	
1010	03305		RESET BEARING SHOE - 047B00133R	5.00	EACH		\$	
1020	08104		CONCRETE-CLASS AA	75.00	CUYD		\$	
1030	08140		MECHANICAL REINF COUPLER #5 EPOXY COATED	76.00	EACH		\$	
1040	08141		MECHANICAL REINF COUPLER #6 EPOXY COATED	76.00	EACH		\$	
1050	08151		STEEL REINFORCEMENT-EPOXY COATED	23,646.00	LB		\$	
1060	08170		SHEAR CONNECTORS	1.00	LS		\$	
1070	08435		JACK & SUPPORT BRIDGE SPAN - 047B00133R	1.00	LS		\$	
1080	20600NC		DECK DRAIN EXTENSION - 047B00133R	11.00	EACH		\$	
1090	21650NN		BOLT/RIVET REPLACEMENT - 047B00133R	43.00	EACH		\$	
1100	23218EC		FLOORBEAM REPAIR - 047B00133R	2.00	EACH		\$	
1110	23813EC		DECK DRAIN	2.00	EACH		\$	
1120	24405EC		MECHANICAL REINF COUPLER-#8 EPOXY COATED	128.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1130	24879EC		STEEL REPAIR - 047B00133R - BEARING STIFFENER	3.00	EACH		\$	
1140	24879EC		STEEL REPAIR - 047B00133R - WIND LOCK	4.00	EACH		\$	
1150	24981EC		BRIDGE CLEANING B00133R	1.00	LS		\$	

### Section: 0005 - TRAFFIC LOOP

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1160	04793		CONDUIT-1 1/4 IN	40.00	LF		\$	
1170	04795		CONDUIT-2 IN	75.00	LF		\$	
1180	04820		TRENCHING AND BACKFILLING	115.00	LF		\$	
1190	04829		PIEZOELECTRIC SENSOR	12.00	EACH		\$	
1200	04830		LOOP WIRE	7,500.00	LF		\$	
1210	04895		LOOP SAW SLOT AND FILL	675.00	LF		\$	
1220	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	5.00	EACH		\$	

### Section: 0006 - TRAINEES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1230	02742		TRAINEE PAYMENT REIMBURSEMENT GROUP 2, 3, OR 4 OPERATOR	1,400.00	HOUR		\$	

### Section: 0007 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1240	02568		MOBILIZATION	1.00	LS		\$	
1250	02569		DEMOBILIZATION	1.00	LS		\$	