



CALL NO. 328

CONTRACT ID. 214408

MARION COUNTY

FED/STATE PROJECT NUMBER FD04 078 0068 013-014

DESCRIPTION E MAIN STREET (US 68)

WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN

PRIMARY COMPLETION DATE 8/1/2022

LETTING DATE: October 22,2021

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 am EASTERN DAYLIGHT TIME October 22,2021. Bids will be publicly announced at 10:00 am EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 04

CONTRACT ID - 214408
FD04 078 0068 013-014
COUNTY - MARION
PCN - 0407800682101
FD04 078 0068 013-014

E MAIN STREET (US 68) (MP 12.900) ADDITION OF A LEFT TURN LANE AND RIGHT TURN LANE ON US 68 AT KY 1404 (MP 13.400), A DISTANCE OF 0.50 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 04-09021.00.
GEOGRAPHIC COORDINATES LATITUDE 37:34:39.00 LONGITUDE 85:13:17.00

COMPLETION DATE(S):
COMPLETED BY 08/01/2022 APPLIES TO ENTIRE PROJECT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's electronic bidding software. The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by [KRS 14A.9-010](#) to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under [KRS 14A.9-030](#) unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in [KRS 14A.9-010](#), the foreign entity should identify the applicable exception. Foreign entity is defined within [KRS 14A.1-070](#).

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at <https://secure.kentucky.gov/sos/ftbr/welcome.aspx>.

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially

disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004.

April 30, 2018

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the Affidavit should be done along the bid in Bid Express.

April 30, 2018

ASPHALT MIXTURE

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

OPTION B

Be advised that the Department will control and accept compaction of asphalt mixtures furnished on this project under OPTION B in accordance with Sections 402 and 403.

SPECIAL NOTE FOR EROSION CONTROL

I. DESCRIPTION

Perform all erosion and water pollution control work in accordance with any other notes in the Proposal, the Department's Standard and Interim Supplemental Specifications, the Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions, or as directed by the Engineer. Section references are to the Standard Specifications. This work shall consist of:

(1) Developing and preparing a Best Management Practices Plan (BMP) tailored to suit the specific construction phasing for each site within the project; (2) Preparing the project site for construction, including locating, furnishing, installing, and maintaining temporary and/or permanent erosion and water pollution control measures as required by the BMP prior to beginning any earth disturbing activity on the project site; (3) Clearing and grubbing and removal of all obstructions as required for construction; (4) Removing all erosion control devices when no longer needed; (5) Restoring all disturbed areas as nearly as possible to their original condition; (6) Preparing seedbeds and permanently seeding all disturbed areas; (7) Providing a Kentucky Erosion Prevention and Sediment Control Program (KEPSC) qualified inspector; and (8) Performing any other work to prevent erosion and/or water pollution as specified by this contract, required by the BMP, or as directed by the Engineer.

II. MATERIALS

Furnish materials in accordance with these notes, the Standard Specifications and Interim Supplemental Specifications, applicable Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions. Provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual. Unless directed otherwise by the Engineer, make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

III. CONSTRUCTION

Be advised, these Erosion Control Notes do not constitute a BMP plan for the project. Jointly with the Engineer, prepare a site specific BMP plan for each drainage area within the project in accordance with Section 213. Provide a unique BMP at each project site using good engineering practices taking into account existing site conditions, the type of work to be performed, the construction phasing, methods, and the techniques to be utilized to complete the work. Be responsible for all erosion prevention, sediment control, and water pollution prevention measures required by the BMP for each site. Represent and warrant compliance with the Clean Water Act (33 USC Section 1251 et seq.), the 404 Permit, the 401 Water Quality Certification, and applicable state and local government agency laws, regulations, rules, specifications, and permits. Contrary to Section 105.05, in case of discrepancy between these notes, the Standard Specifications, Interim Supplemental Specifications, Special Provisions and Special Notes, Standard and Sepia Drawings, and such state and local government agency requirements, adhere to the most restrictive requirement.

Erosion Control

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Conduct operations in such a manner as to minimize the amount of disturbed ground during each phase of the construction and limit the haul roads to the minimum required to perform the work. Preserve existing vegetation not required to be removed by the work or the contract. Seed and/or mulch disturbed areas at the earliest opportunity. Use silt fence, silt traps, temporary ditches, brush barriers, erosion control blankets, sodding, channel lining, and other erosion control measures in a timely manner as required by the BMP and as directed or approved by the Engineer. Prevent sediment laden water from leaving the project, entering an existing drainage structure, or entering a stream.

Provide for erosion control measures to be in place and functioning prior to any earth disturbance within a drainage area. Compute the volume and size of silt control devices necessary to control sediment during each phase of construction. All silt control devices shall be sized to retain a volume of 3,600 cubic feet per disturbed contributing acre. Remove sediment from silt traps before they become a maximum of $\frac{1}{2}$ full. Maintain silt fence by removing accumulated trappings and/or replacing the geotextile fabric when it becomes clogged, damaged, or deteriorated, or when directed by the Engineer. Properly dispose of all materials trapped by erosion control devices at approved sites off the right of way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.

As work progresses, add or remove erosion control measures as required by the BMP, applicable to the Contractor's project phasing, construction methods, and techniques. Update the volume calculations and modify the BMP as necessary throughout the duration of the project. Ensure that an updated BMP is kept on site and available for public inspection throughout the life of the project.

The required volume at each Silt Trap shall be computed based on the Up Gradient Contributing Areas that are disturbed and/or stabilized to the satisfaction of the Engineer. The required volume calculation for each Silt Trap shall be determined by the Contractor and verified by the Engineer. The required volume at each Silt Trap may be reduced by the following amounts:

- Up Gradient Areas not disturbed (acres)
- Up Gradient Areas that have been reclaimed and protected by Erosion Control Blanket or other ground protection material such as Temporary Mulch (acres)
- Up Gradient Areas that have been protected by Silt Fence (acres) – Areas protected by Silt Fence shall be computed at a maximum rate of 100 square feet per linear foot of Silt Fence
- Up Gradient Areas that have been protected by Silt Traps (acres)

The use of Temporary Mulch is encouraged.

Silt Trap Type B shall always be placed at the collection point prior to discharging into a Blue Line Stream or onto an adjacent Property Owner. Where overland flow exists, a Silt Fence or other filter devices may be used.

After all construction is complete, restore all disturbed areas in accordance with Section 212. Completely remove all temporary erosion control devices not required as part of the permanent erosion control from the construction site. Prior to removal, obtain the Engineer's concurrence of items to be removed. Grade the remaining exposed earth (both on and off the Right-of-Way) as nearly

Erosion Control
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as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

IV. MEASUREMENT

The Department will measure the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

V. BASIS OF PAYMENT

The Department will make payment for the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

SPECIAL NOTE FOR STAKING

Perform Contractor Staking according to Section 201; except, in addition to the requirements of Section 201, perform the following:

1. Contrary to Section 201, perform items 1-2 usually performed by the Engineer.
2. Using the proposed pavement superelevation rates, runout, and runoff lengths, determine the necessary changes in pavement edge elevation along the curves and the transitions leading into and out of the curve to achieve the proposed superelevation improvements. The intent to provide a consistent superelevation throughout the curves and smooth transitions into and out of the curves. Once the proposed changes in pavement edge elevations are determined and prior to starting paving operations, verify the proposed roadside re-grading along the curve can be constructed so that the new roadside is flush with the new pavement edge elevation and the new toe of slope, or top of cut, will remain within the existing Right-of-Way and/or not impact a sensitive obstruction. If necessary, and with the approval of the Engineer, reduce the proposed superelevation rate of a curve if the new edge of pavement elevation will cause the new roadside grading to extend beyond the Right-of-Way and/or impact a sensitive obstruction. Alternatively, with the approval of the Engineer and to the extent allowable by the "Ditching & Shouldering and Embankment Benching Details" and/or the Special Note for Ditching & Shouldering, the Contractor may be allowed to make adjustments to the roadside grading so the proposed roadside re-grading will remain within the existing Right-of-Way and/or not impact a sensitive obstruction. After the final proposed changes in pavement edge elevations are determined and before paving operations begin, submit to the Engineer and obtain approval for the number of asphalt lifts, each asphalt lift's thickness, and the mix design of each lift of Leveling & Wedging the contractor plans to use to achieve the superelevation improvement. Ensure positive drainage upon completion of the work.
3. Verify the dimensions, type, and quantities of the culvert pipes, entrance pipes, and/or box culverts as listed and detailed in the proposal, and determine flow line elevations and slopes necessary to provide positive drainage. Revise as necessary to accommodate the existing site conditions; to provide proper alignment of the drainage structures with existing and/or proposed ditches, stream channels, swales, and the roadway lines and grades; and to ensure positive drainage upon completion of the work.
4. Using stakes, paint marks on the pavement, mag nails, and/or any other means approved by the Engineer, the Contractor shall mark and/or stake the proposed sign locations in the field. NOTE: The proposed signs are listed in the proposal by approximate location and are NOT to be taken as the exact location for the signs. During staking operations the Contractor shall review the signing layout and existing field conditions and look for potential conflicts, including but not limited to utilities, driveways, visual obstructions, etc. When conflicts are found, adjust the staked location of signs to mitigate conflicts. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in the Manual on Uniform on Traffic Control Devices

Staking
Page 2 of 2

(MUTCD), current edition. The MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks of notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.

5. Produce and furnish to the Engineer "As Built" information for the superelevation improvements and the drainage improvements. For superelevation improvements, as built information will consist of a record of the final pavement cross slopes every 50 feet, for each lane of travel along the curves and the transitions into and out of the curves. Elevation data of the curve improvements is not necessary; simply the cross slope percentage every 50 feet. For the drainage improvements, as built information will consist of a final record of the actual types, sizes, and locations of the drainage structures (i.e. box inlets, headwalls, junction boxes, etc.), culvert pipes, and/or box culverts constructed. Final elevation data of the drainage improvements is not necessary.
6. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed striping, pavement markings, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
7. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
8. Perform any and all other staking operations required to control and construct the work.

SPECIAL NOTE FOR FINE MILLING

Perform Fine Milling at areas outlined in the Typical Sections and as directed by the Engineer.

A). Equipment Provide a cold milling machine with a fine tooth milling drum and an electronic grade control system. The tool spacing of the drum shall not exceed 3/8 inch. The machine shall be equipped with a grade control system capable of determining a mean value from a minimum of three grade sensors. The sensors shall span a minimum length of 20 ft longitudinally. The drum must be capable of producing a macrotexture measurement greater than or equal to 9.5 inches as described in C) Testing.

B). Construction The milling machine shall be operated at a speed and drum revolution per minute such that the macrotexture measurement is greater than or equal to 9.5 inches as described in C) Testing and the milled pavement profile does not vary longitudinally more than 1/4 inch from a 16' straightedge. Maintain the milling drum such that the cross-slope does not vary more than 1/8 inch from a 10 foot straightedge. Milling shall be performed so that the cross-slope breaks between driving lanes and shoulders remain at their existing locations. Depth of milling shall be set so as to remove rutting and profile errors. Contractor will take possession of all millings from milling operations. The milled surface shall be swept clean of all loose material after milling and prior to resurfacing.

C). Testing Testing shall be performed to determine the macrotexture of the milled pavement surface at a random location chosen in accordance with Kentucky Method KM 64-113- 14. Test area shall be cleaned with a stiff wire and or soft bristle brush and protected with a wind screen as necessary. Pour 200 ml of Type 1 glass beads (meeting AASHTO M 247) from a height of 4 inches or less onto the milled pavement surface. Using a round plexiglass disk (8 inches in diameter x 1/2 inch thick) with a round handle, place gently on pile of beads and spread in a slow circular motion to disperse the beads in a circular area and create a defined crest around the perimeter. Continue spreading until the beads are well dispersed and the disk rides on top of the high points of the milled pavement surface. Measure the diameter of the pile in inches at 0 degrees, 45 degrees, 90 degrees and 135 degrees. Determine the macrotexture measurement in inches by adding the four measurements and dividing by four. Frequency of testing shall be a minimum of once daily and additional testing will be performed as determined necessary by the project engineer.

D). Measurement The Department will measure Fine Milling in Square Yards of surface milled.

E). Payment Payment at the contract unit price per Square Yard of Fine Milling shall be full compensation for all equipment, work, and material necessary to complete the operations described herein.

SPECIAL NOTE FOR NON-TRACKING TACK COAT

1. **DESCRIPTION AND USAGE.** This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can “break” within 15 minutes under conditions listed in 3.2.
2. **MATERIALS, EQUIPMENT, AND PERSONNEL.**

2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 – 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue ¹ , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	20 max.	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

¹ Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

- 2.2. **Equipment.** Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. As required by the manufacturer, ensure the spray bar is equipped with #1 or #2 ¼” V-slot Etnyre nozzles. Other nozzles are not acceptable. Arrange the nozzles in the following patterns from left to right:

Nozzle number(s)	Activity	Orientation
1	On	Vertical
2	Off	-
3	On	Horizontal
4 & 5	Off	-
6	On	Horizontal
Continue 2 off and 1 on pattern through rest of spray bar system.		

Ensure the bar can be raised to between 14 and 18” from the roadway.

2.3 Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

3.2 Non-tracking Tack Application. Ensure the roadway temperature is a minimum of 40 °F and rising during the application of the tack. This material is not suitable for use in colder temperatures. Prior to applying the tack, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 – 180 °F. After initial heating to between 170 – 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a rate of 0.50 pounds (0.06 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. If full coverage is not achieved, material application rate may be increased to ensure full coverage. Do not heat material more than twice in one day.

3.3 Non-tracking Tack Certification. Furnish the tacks certification to the Engineer stating the material conforms to all requirements herein prior to use.

3.4 Sampling and Testing. The Department will require a sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the adhesive. The Department will consider all such items incidental to the non-tracking tack.

5. PAYMENT. The Department will pay for the non-tracking tack at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Non-Tracking Tack Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18 103 - 105	15 - 16 106 - 107	14 108 - 109	≤13 ≥ 110
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 – 48.4	47.5-47.9	≤ 47.4
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0
Residue Penetration, 77 ° F	20 max.	≤ 21	22 - 23	24 - 25	26 - 27	≥ 28
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 – 0.94	0.90 – 0.91	0.85 - 0.89	≤ 0.84
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3

Code
24970EC

Pay Item
Asphalt Material for Tack Non-Tracking

Pay Unit
Ton

April 30, 2018

Special Note for Completion Date

Construction shall not begin until the 2022 spring school session is complete. The project shall have a fixed completion date of August 1, 2022.

SPECIAL PROVISION FOR WASTE AND BORROW SITES

Obtain U.S. Army Corps of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". The Corps of Engineers defines "Waters of the United States" as perennial or intermittent streams, ponds or wetlands. The Corps of Engineers also considers ephemeral streams, typically dry except during rainfall but having a defined drainage channel, to be jurisdictional waters. Direct questions concerning any potential impacts to "Waters of the United States" to the attention of the appropriate District Office for the Corps of Engineers for a determination prior to disturbance. Be responsible for any fees associated with obtaining approval for waste and borrow sites from the U.S. Army Corps of Engineer or other appropriate regulatory agencies.

1-296 Waste & Borrow Sites
01/02/2012

COORDINATION OF WORK WITH OTHER CONTRACTS

Be advised, there may be an active project(s) adjacent to or within this project. The Engineer will coordinate the work of the Contractors. See Section 105.06.

1-3193 Coordination Contracts
01/02/2012

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

Consider the dimensions shown on the typical sections for pavement and shoulder widths and thickness' to be nominal or typical dimensions. The Engineer may direct or approve varying the actual dimensions to be constructed to fit existing conditions. Do not widen existing pavement or shoulders unless specified elsewhere in this proposal or directed by the engineer.

1-3725 Typical Section Dimensions
01/02/2012

KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF RIGHT OF WAY & UTILITIESTC 62-226
Rev. 01/2016
Page 1 of 1

RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
4-9021	Marion	FD04 078 0068 013-014	
PROJECT DESCRIPTION			
INSTALL TURN LANE AT GLASSCOCK ELEMENTARY			
<input checked="" type="checkbox"/> No Additional Right of Way Required			
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.			
<input type="checkbox"/> Condition # 1 (Additional Right of Way Required and Cleared)			
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.			
<input type="checkbox"/> Condition # 2 (Additional Right of Way Required with Exception)			
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract			
<input type="checkbox"/> Condition # 3 (Additional Right of Way Required with Exception)			
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.			
Total Number of Parcels on Project	0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired	0		
Signed Deed	0		
Condemnation	0		
Signed ROE	0		
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Michael H Price
Signature		Signature	2021.08.31 07:26:49
Date		Date	-04'00'
Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature		Signature	
Date	Digitally signed by Kelly R. Divine Date: 2021.08.31 07:25:37 -05'00'	Date	

UTILITIES AND RAIL CERTIFICATION NOTE

Marion County
No federal number available
FD04 078 0068 013-014
Mile point: 13.150 TO 13.160
INSTALL TURN LANE AT GLASSCOCK ELEMENTARY. (2020BOP)(2021SCHSAF)
ITEM NUMBER: 04-9021.00

PROJECT NOTES ON UTILITIES

Utility coordination efforts determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.

NOTE: DO NOT DISTURB THE FOLLOWING FACILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

- Windstream Holdings II, LLC - Communication
- Bluegrass Network, LLC - Communication
- Atmos Energy - Natural Gas
- Lebanon Water Works Co. - Water
- Inter-County Energy Cooperative Corporation - Electric
- City of Lebanon Sewer - Sewer
- Time Warner Cable - CATV
- Marion County Water District - Water

The Contractor is fully responsible for protection of all utilities listed above

THE FOLLOWING FACILITY OWNERS ARE RELOCATING/ADJUSTING THEIR FACILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

Not Applicable

UTILITIES AND RAIL CERTIFICATION NOTE

<div>Marion County</div> <div>No federal number available</div> <div>FD04 078 0068 013-014</div> <div>Mile point: 13.150 TO 13.160</div> <div>INSTALL TURN LANE AT GLASSCOCK ELEMENTARY. (2020BOP)(2021SCHSAF)</div> <div>ITEM NUMBER: 04-9021.00</div>

THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE OWNER OR THEIR SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

Not Applicable

THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD CONTRACTOR AS INCLUDED IN THIS CONTRACT

Not Applicable

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

☒ No Rail Involvement ☐ Rail Involved ☐ Rail Adjacent

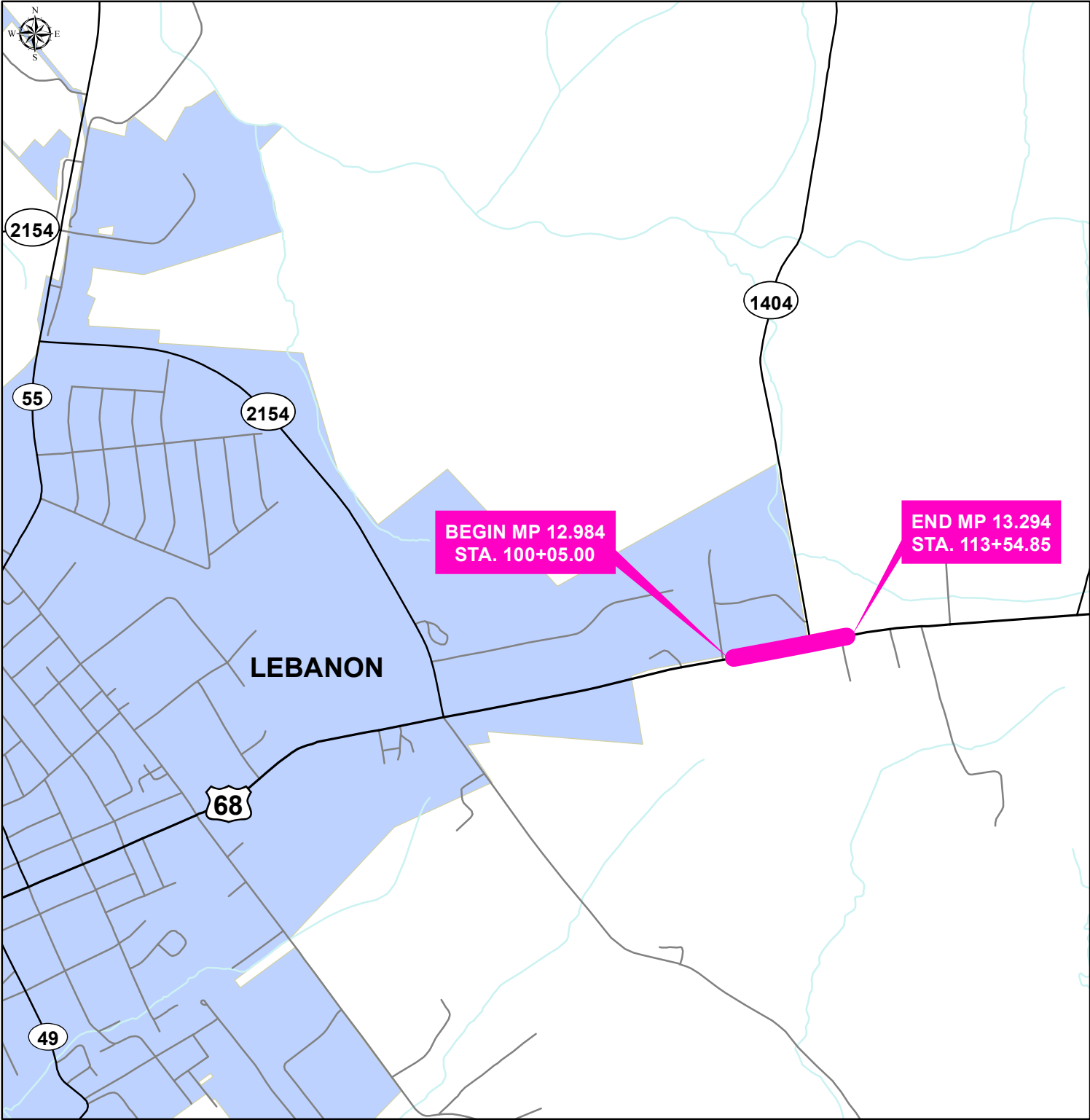
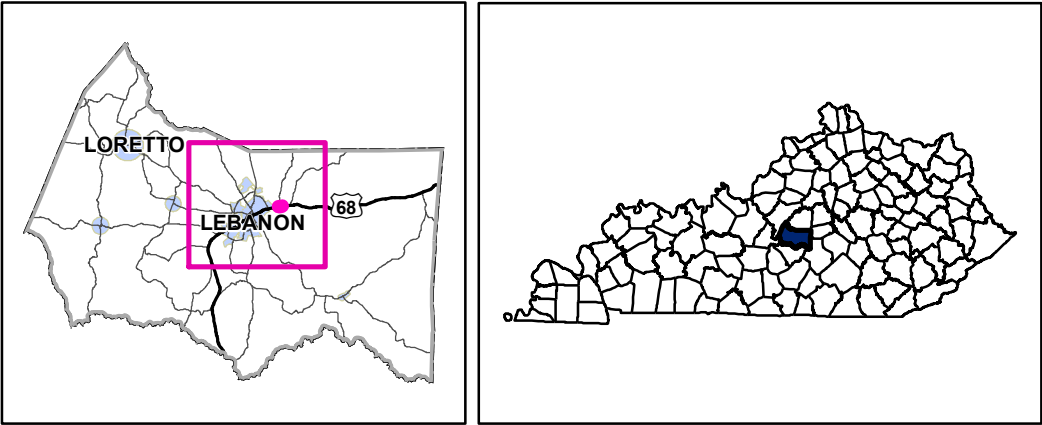
UTILITIES AND RAIL CERTIFICATION NOTE

Marion County
No federal number available
FD04 078 0068 013-014
Mile point: 13.150 TO 13.160
INSTALL TURN LANE AT GLASSCOCK ELEMENTARY. (2020BOP)(2021SCHSAF)
ITEM NUMBER: 04-9021.00

AREA FACILITY OWNER CONTACT LIST

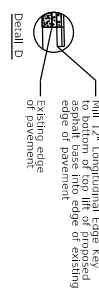
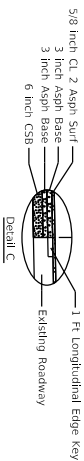
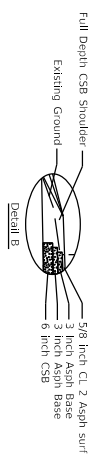
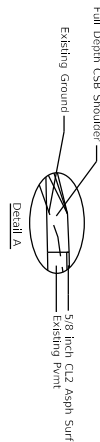
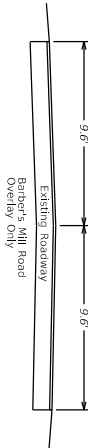
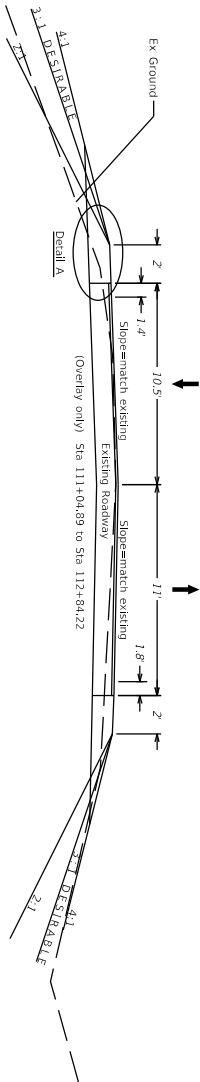
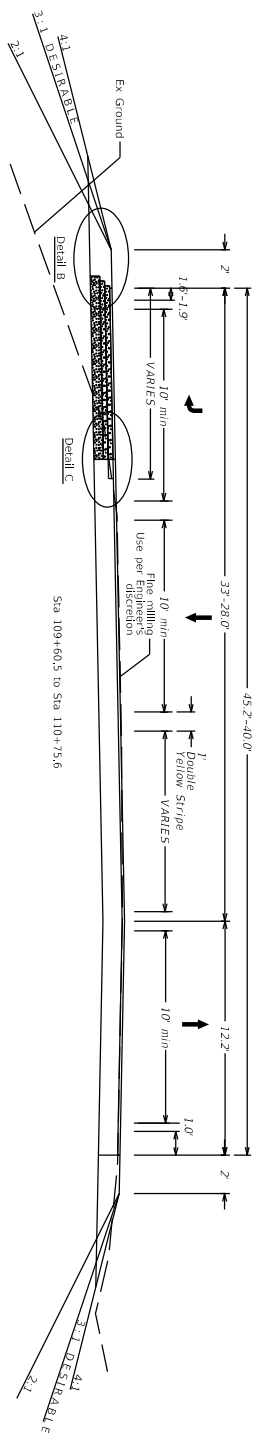
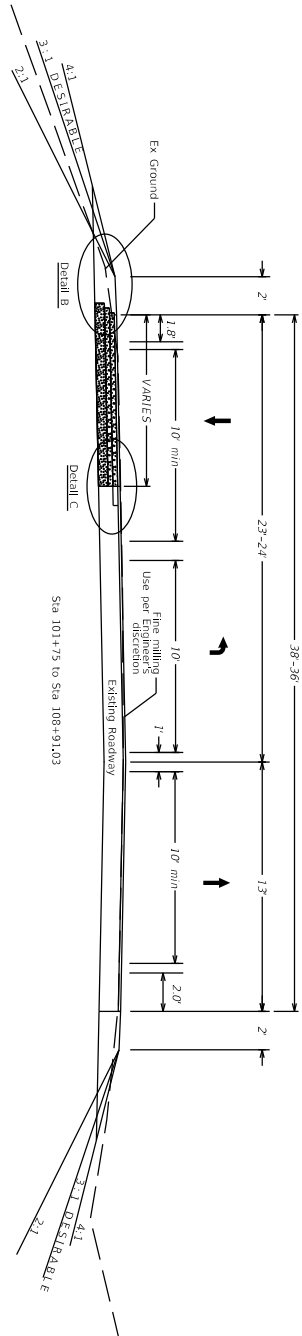
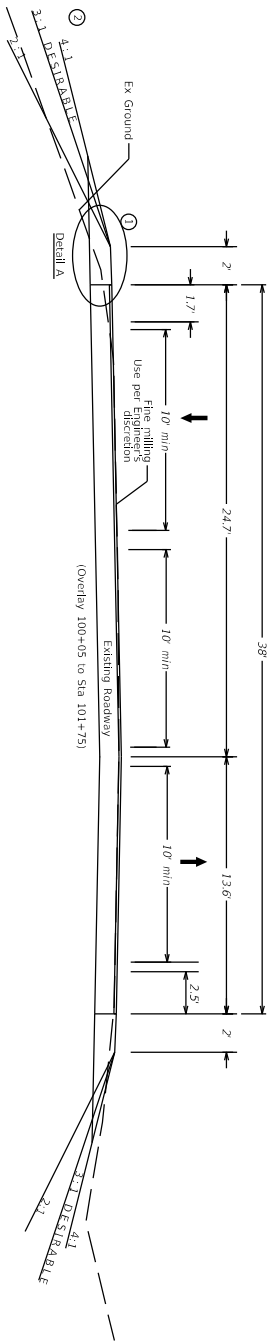
Facility Owner	Address	Contact Name	Phone	Email
Atmos Energy - Natural Gas	3275 Highland Pointe Drive Owensboro KY 42303	Silas Bohlen	2706858020	silas.bohlen@atmosenergy.com
Bluegrass Network, LLC - Communication	115 W. Williams St. Elizabethtown KY 42701	Terry Hullett	2707342177	thullett@bluegrassnetwork.com
City of Lebanon Sewer - Sewer	118 S. Proctor Knott Ave Lebanon Ky 40033	John Thomas	2706926272	jthomas@lebanonky.org
Inter-County Energy Cooperative Corporation - Electric	PO Box 87 Danville KY 40422	Bud Griffith	8592364561	Bud@intercountyenergy.net
Lebanon Water Works Co. - Water	120 S Proctor Knott Ave. Lebanon KY 40033	Daren Thompson	5026480927	daren.thompson@lebanonwaterworks.com
Marion County Water District - Water	1835 Campbellsville Rd. Lebanon KY 40033	Toby Spalding	2706922004	mcwdh20@yahoo.com
Time Warner Cable - CATV		Nathan Howerton	5026396838	
Windstream Holdings II, LLC - Communication	130 West New Circle Road Lexington KY 40505	Steve Johnson	8593576209	steve.johnson@windstream.com

PROJECT MAP
MARION COUNTY
US 68 TURN LANE
4-9021.00

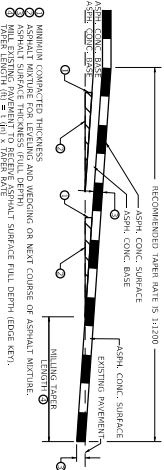


TYPICAL SECTION

PAVEMENT DESIGN
5/8 inch CL 2 Asphalt Surface NO AB PG 64+22
(2 layers) 3 inch CL 2 Asphalt Base 1,000 PG 64+22
6 inch Crushed Stone Base



**Field verify location of existing edge of pavement--Edge Key must be placed over existing full depth pavement.



TAPERING OF OVERLAYS ON HIGH SPEED FACILITIES (≥45 MPH)

- ① Asphalt Seal Coat over CSB from outside edge of paved shoulder to a point 2 ft down the ditch or fill slope. Two applications of the following:
 - Asphalt Seal Coat 2.4 LBS/SY
 - Asphalt Seal Aggregate 20 LBS/SY
- ② See cross sections for slopes outside the limits of the shoulders

SCALE: 1"=10'

COUNTY OF	ITEM NO.	SHEET NO.
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US 68 Turn Lanes

Typical Section

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	TOTAL PROJECT
02545	CLEARING AND GRUBBING (0.36 AC)	LS	1
02159	TEMP DITCH	LF	678
02160	CLEAN TEMP DITCH	LF	339
02200	ROADWAY EXCAVATION	CUYD	1173
02362	TEMPORARY SIGNS	SF	300
02585	EDGE KEY	LF	102
02569	DEMOLIZATION	LS	1
02650	MAINTAIN & CONTROL TRAFFIC	LS	1
02671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
02676	MOBILIZATION FOR MILLING TEXTURING	EACH	1
02701	TEMPORARY SILT FENCE	LF	678
02704	SILT TRAP TYPE B	EACH	1
02705	SILT TRAP TYPE C	EACH	1
02707	CLEAN SILT TRAP TYPE B	EACH	1
02708	CLEAN SILT TRAP TYPE C	EACH	1
02726	STAKING	LS	1
05950	EROSION CONTROL BLANKET	SOYD	500
05952	TEMP MULCH	SOYD	169
05953	TEMP SEEDING AND PROTECTION	SOYD	877
05963	INITIAL FERTILIZER	TON	0.1
05964	MAINTENANCE FERTILIZER	TON	0.1
05985	SEEDING AND PROTECT	SOYD	1297
05992	AGRICULTURAL LIMESTONE	TON	1.1
06511	PAVE STRIPING - TEMP PAINT - 6 IN	LF	4067
06542	PAVE STRIPING - THERMO - 6 IN W	LF	2877
06543	PAVE STRIPING - THERMO - 6 IN Y	LF	4500
06568	PAVE STRIPING - THERMO STOP BAR - 24 IN	LF	29
06574	PAVE STRIPING - THERMO CURVE ARROW	EACH	4
21289ED	LONGITUDINAL EDGE KEY	LF	2711
22664EN	WATER BLASTING EXISTING STRIPE	LF	5423
24964ED	FINE MILLING	SOYD	5467

GENERAL SUMMARY NOTES:

- ① WATER SHALL BE INCIDENTAL TO MAINTAIN AND CONTROL TRAFFIC
- ② INITIAL FERTILIZER @ 0.25 TONS/ACRE OF CLEARING AND GRUBBING
MAINTENANCE FERTILIZER @ 0.15 TONS/ACRE OF SEEDING
AGRICULTURAL LIMESTONE @ 3.0 TONS/ACRE OF CLEARING AND GRUBBING
- ③ QUANTITIES ARE APPROXIMATE AND ARE FOR INFORMATION ONLY:
COM: 1173 CUYD
EMB: 966 CUYD
- ④ INCLUDES 0.36 ACRES

PAVING AREAS

ITEM	TOTAL PROJECT
	SQUARE YARDS
5/8"-CL2 ASPH SURF NO.4B PG64-22	5467
3.0"-CL2 ASPH BASE 1.00D PG64-22 - TOP LAYER	1080
3.0"-CL2 ASPH BASE 1.00D PG64-22 - BOTTOM LAYER	1080
6.0"-CRUSHED STONE BASE	1106
ASPHALT MATERIAL FOR TACK NON-TRACKING	7318
ASPHALT SEAL COAT	1317
ASPHALT SEAL AGGREGATE	1317

PAVING SUMMARY

ITEM CODE	ITEM	ITEM CODE	TOTAL PROJECT
24888EC	CL2 ASPH SURF NO.4B PG64-22	⑨	188
00212	CL2 ASPH BASE 1.00D PG 64-22	TONS	355
00003	CRUSHED STONE BASE	⑥⑨	382
00190	LEVEL & WEDGE PG64-22	TONS	77
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	⑩	TONS
00103	ASPHALT SEAL COAT	⑦	TONS
00100	ASPHALT SEAL AGGREGATE	⑧	TONS
			26

PAVING SUMMARY NOTES:

- ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS PER SQ.YD PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.
- ⑤ TONNAGE BASED ON END-AREA OF CROSS SECTIONS/MODEL
- ⑥ ESTIMATED AT 2.07 TONS/CUYD
- ⑦ ESTIMATED AT 2.40 LBS PER SQ YD. **TWO COATS
- ⑧ ESTIMATED AT 20 LBS PER SQ YD. **TWO COATS
- ⑨ SURFACE/OVERLAY EXISTING ROADWAY AS WELL AS PROPOSED WIDENING AND SHOULDERS
- ⑩ TO BE USED BETWEEN ALL ASPHALT COURSE LAYERS AT A RATE OF 0.7 LB/SY

NTS

	COUNTY OF	ITEM NO.	SHEET NO.
	MARION	04_9021.00	R2A
GENERAL & PAVING SUMMARIES			

GENERAL NOTES

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE WITH A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDER-GROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITIES OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. # OF THE PLANS.

PAVEMENT MARKINGS / STRIPING / THERMO

CONTACT KYTC TRAFFIC ENGINEER (JUSTIN WALLACE)
PRIOR TO PERMANENT STRIPING OR THERMO. 270-766-5066

EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED ELSEWHERE IN THE PLANS SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID PER LINEAR FOOT (PER METER) FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR, AND EQUIPMENT TO PERFORM THE NECESSARY WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATION SERVICES IN FRANKFORT, KY AT (502) 564-4610.

MARKING REMOVAL

REMOVAL OF THE EXISTING STRIPING SHALL BE DONE BY WATER ABRASIVE BLASTING SO THE STRIPE IS NO LONGER VISIBLE ON THE PAVEMENT WITHOUT EXCESSIVE DAMAGE.

PROFILE / VERTICAL CONTROL

NO PROFILE IS PROVIDED FOR THE PROJECT. CONSTRUCT VIA SPLINE GRADE WITH CENTERLINE BEING THE GRADE POINT. REFER TO CROSS SECTIONS FOR ALL ELEVATIONS/PERTINENT INFORMATION.

SPECIAL NOTES

SPECIAL NOTE 11 PORTABLE CHANGEABLE MESSAGE SIGNS
SPECIAL NOTE FOR NON-TRACKING TACK COAT
SPECIAL NOTE FOR FINE MILLING

UTILITY OWNERS

MARION COUNTY WATER DISTRICT
Toby Spalding
270-268-0548

ATMOS ENERGY
Silas Bowling
270-570-0445

BLUEGRASS NETWORK, LLC
Terry Hulet
thulet@bluegrassnetwork.com
270-734-2177

Charter Cable
Kevin Warner
502-817-5055

LEBANON WATER WORKS CO INC
Daren Thompson
daren.thompson@lebanonwaterworks.com
502-648-0927

INITER COUNTY ENERGY COOPERATIVE CORPORATION
Bud Griffith
Bud@intercountyenergy.net
859-236-4561

WINDSTREAM KENTUCKY
Steve Johnson
stevejohnson@windstream.com
859-357-6209

CITY OF LEBANON SEWER
John Thomas
jthomas@lebanonwaterworks.com
502-648-0927

NOT TO SCALE		
COUNTY OF	ITEM NO.	SHEET NO.
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US 68 TURN LANES		
GENERAL NOTES		

MAINTENANCE OF TRAFFIC NOTES

GENERAL NOTES

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.
2. EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC WILL BE PAID AT THE LUMP SUM BID PRICE TO "MAINTAIN AND CONTROL TRAFFIC" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:
 - A. ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.
 - B. ALL FLAGPERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.
3. ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.
4. THE CONTRACTOR SHALL MAINTAIN A MINIMUM THROUGH LANE WIDTH OF 10 FEET (BOTH THROUGH LANES ON BOTH SIDES OF INTERSECTION).
5. THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.
6. IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.
7. THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSEOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.
8. IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS AND THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE DIVISIONS OF TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.
9. IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.
10. CONSTRUCTION SHALL NOT BEGIN UNTIL THE 2022 SPRING SCHOOL SESSION IS COMPLETE.
11. THE DEPARTMENT WILL PROVIDE PUBLIC NOTIFICATIONS REGARDING LANE CLOSURES. THE CONTRACTOR SHALL SUBMIT PROPOSED DAYS OF LANE CLOSURES TO THE ENGINEER AT LEAST 14 CALENDAR DAYS IN ADVANCE FOR APPROVAL.

PAVEMENT DROP-OFF

A PAVEMENT EDGE THAT TRAFFIC IS NOT EXPECTED TO CROSS, EXCEPT ACCIDENTALLY, SHOULD BE TREATED AS FOLLOWS:

* LESS THAN TWO INCHES - NO PROTECTION REQUIRED. WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.

* TWO TO FOUR INCHES - PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MPH OR GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, PANELS AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MPH AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING OF DEVICES ON TAPERED SECTIONS SHOULD BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.

* GREATER THAN FOUR INCHES - POSITIVE SEPARATION OR WEDGE WITH 3:1 OR FLATTER SLOPE NEEDED. IF THERE IS FIVE FEET OR MORE DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE DROP-OFF, THEN DRUMS, PANEL, OR BARRICADES MAY BE USED. IF THE DROP-OFF IS GREATER THAN 12 INCHES, POSITIVE SEPARATION IS STRONGLY ENCOURAGED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS.

FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN FOUR INCHES MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

REASONABLE MEANS OF INGRESS AND EGRESS SHALL BE MAINTAINED TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. ACCESS TO FIRE HYDRANTS MUST BE MAINTAINED AT ALL TIMES.

NOT TO SCALE

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US 68 TURN LANES

MOT NOTES



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



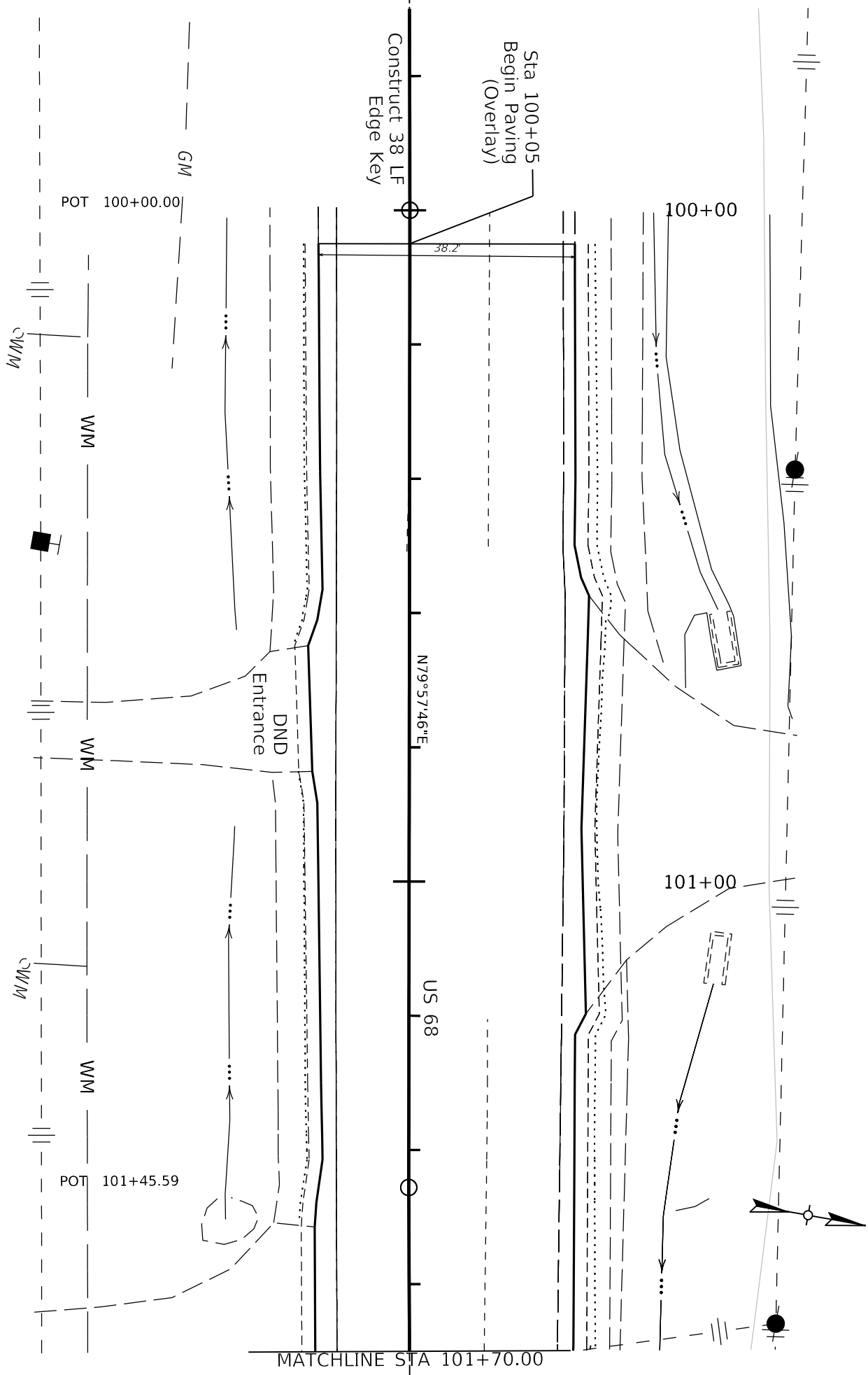
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ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
R003	



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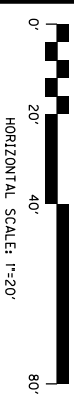
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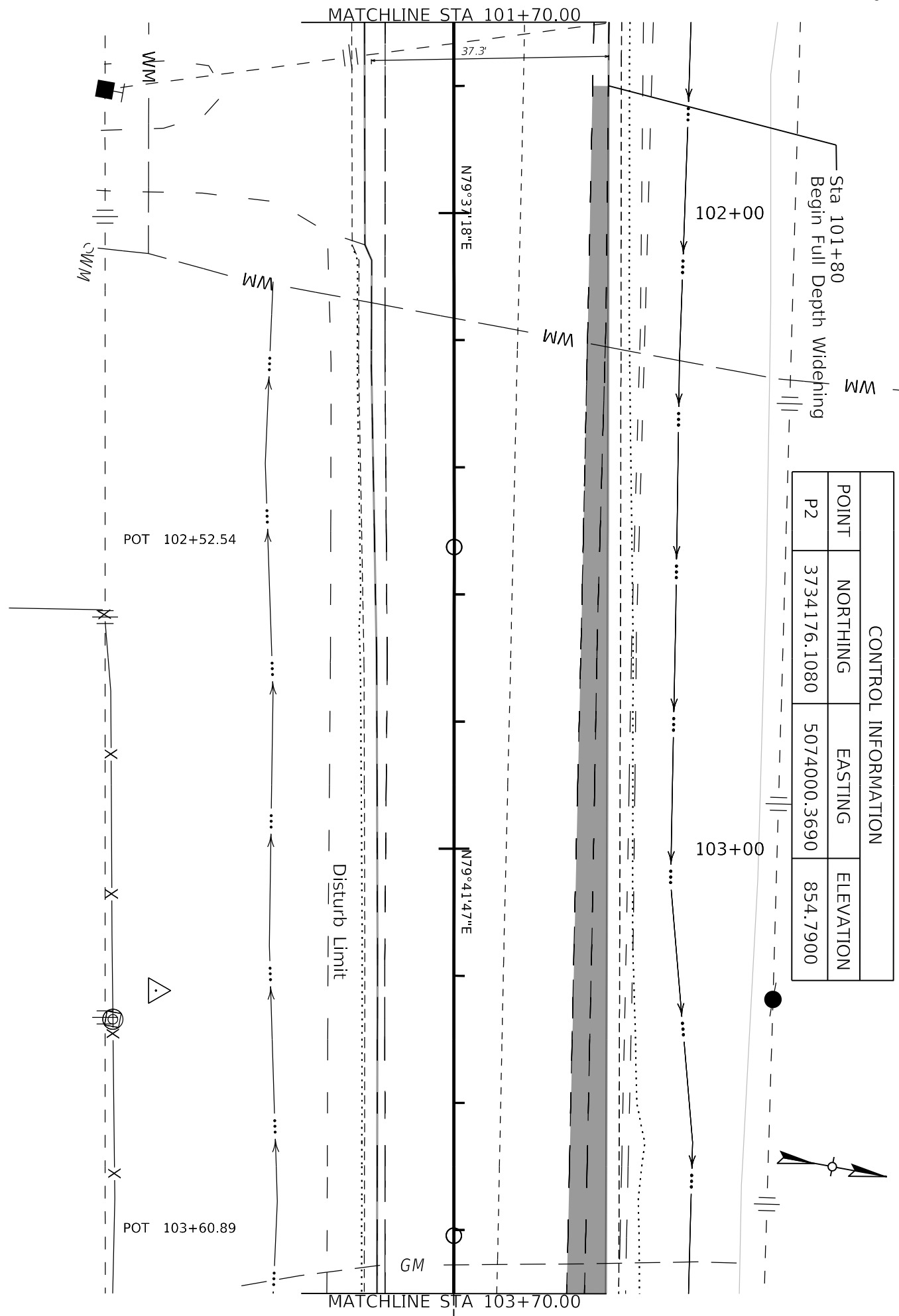
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



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STA 107+00 TO STA 103+70



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R004	



CONTROL INFORMATION			
POINT	NORTHING	EASTING	ELEVATION
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

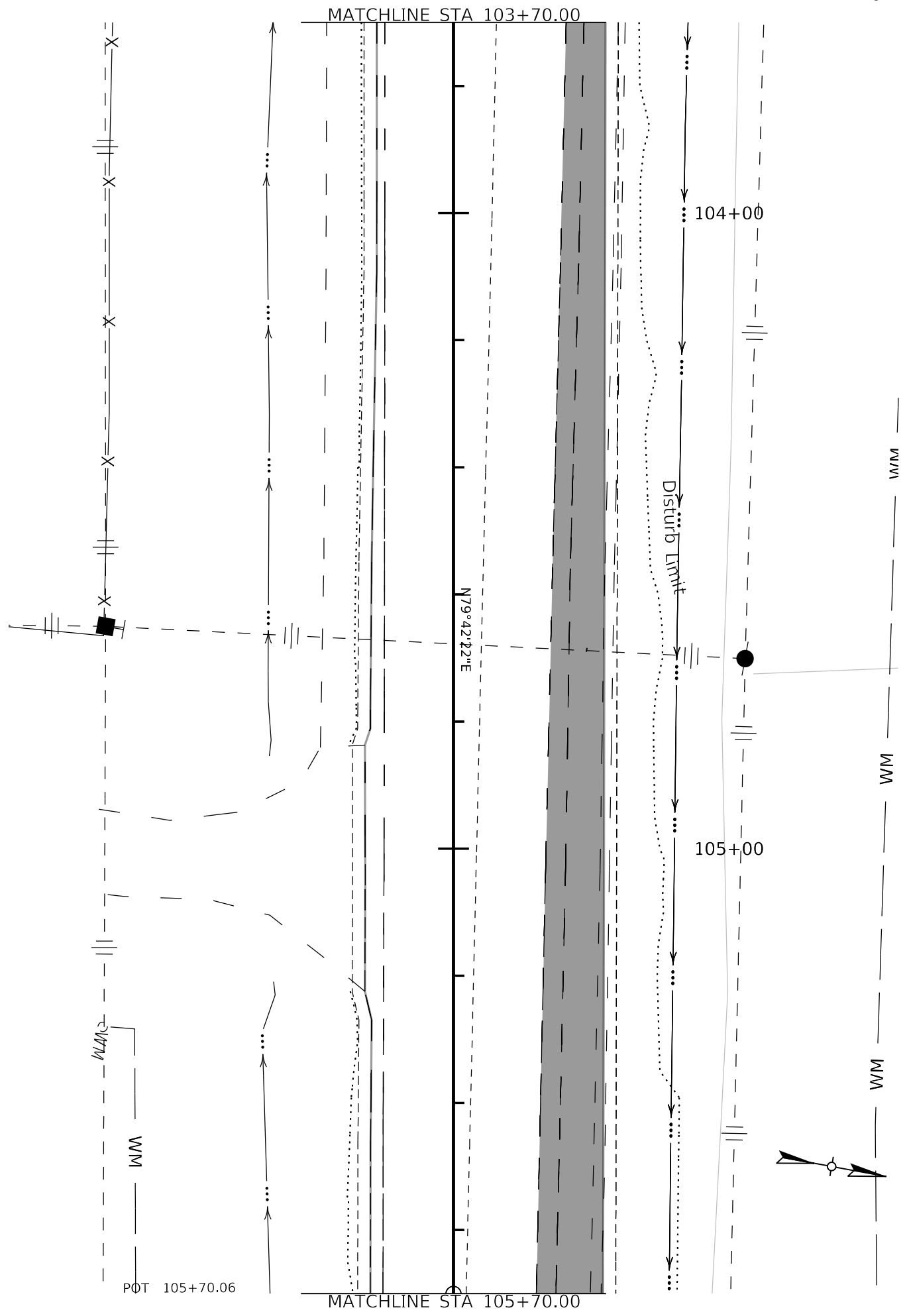


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ITEM NO. 04 9021.00
SHEET NO. R005

COUNTY OF MARION

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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



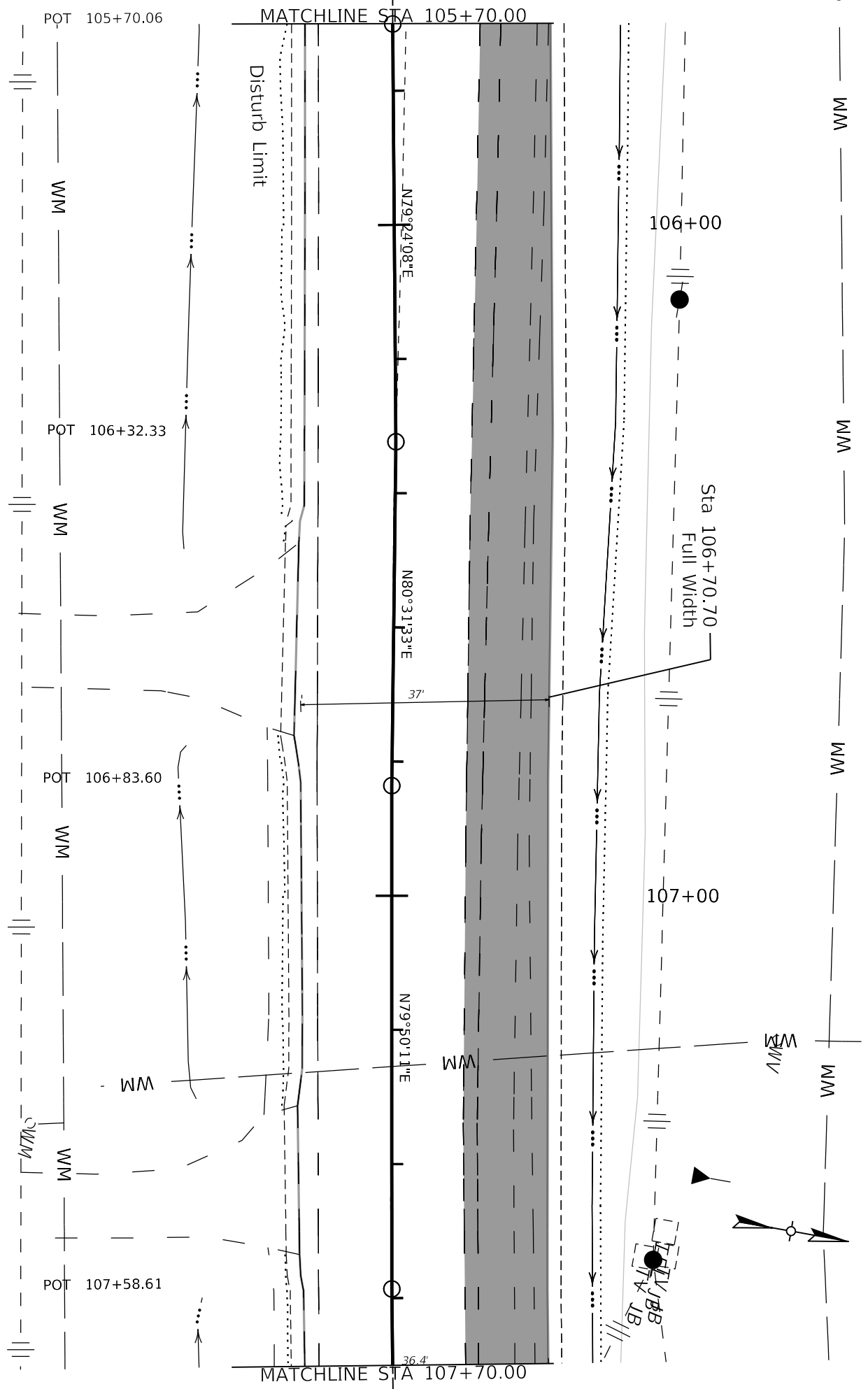
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ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
R006	





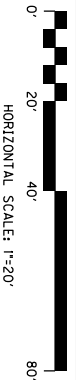
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



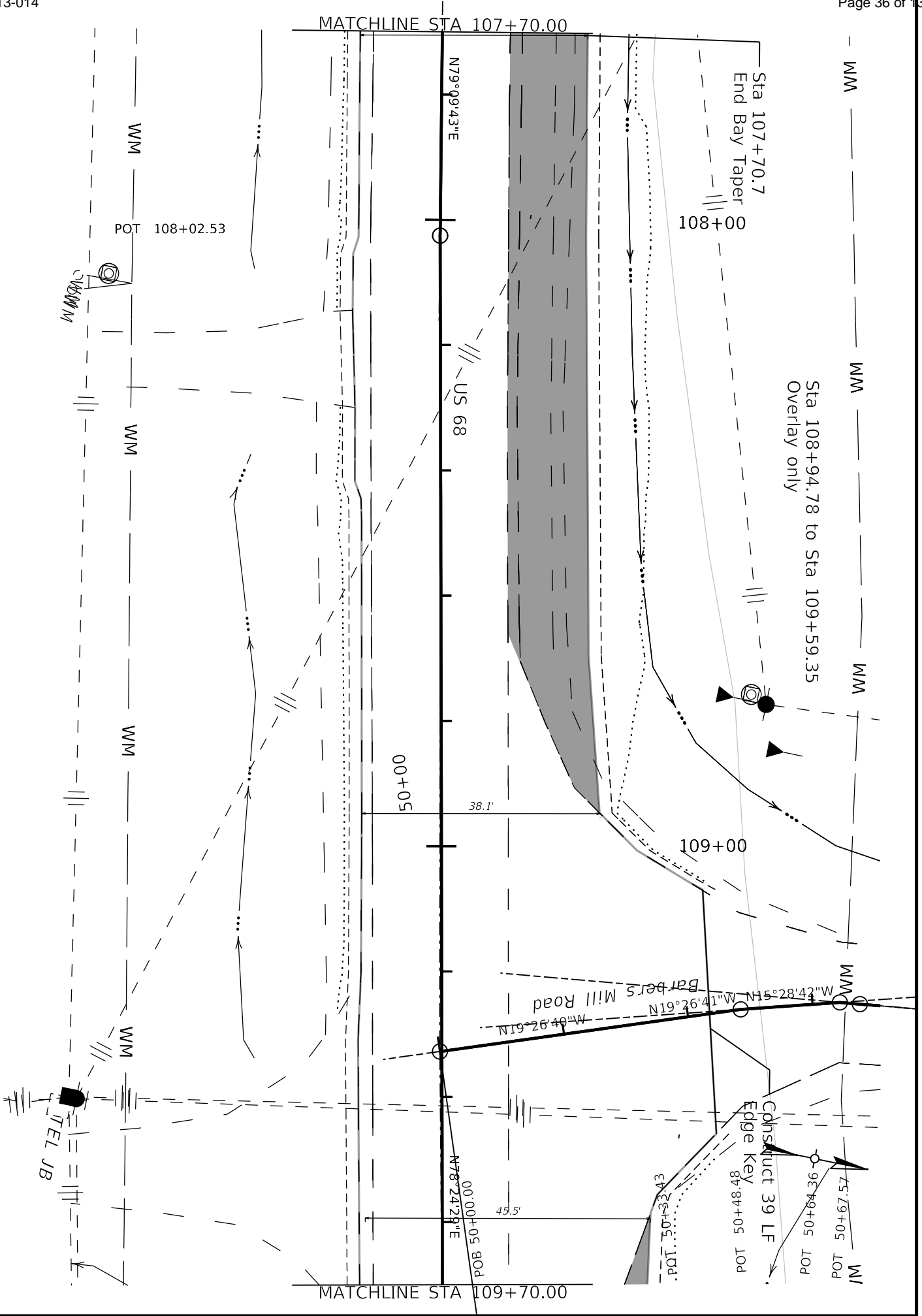
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USER: Debbie Hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
R007	





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



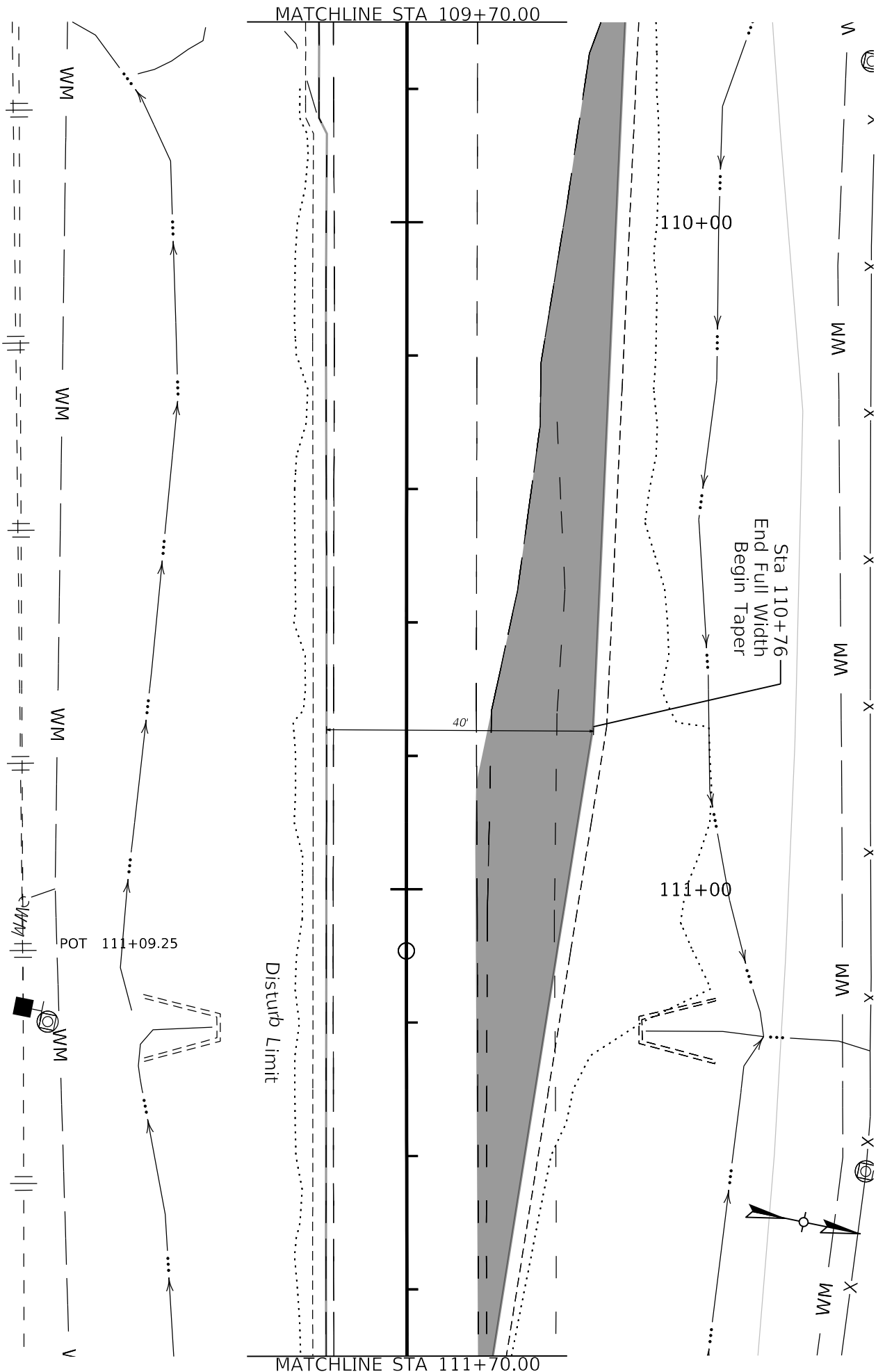
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0' 20' 40' 80'
HORIZONTAL SCALE: 1"=20'

ITEM NO. 04 9021.00	COUNTY OF MARION
SHEET NO. R008	

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USER: Debbye Hassell
DATE PLOTTED: 9/7/2005 7:08:02 PM



GenRoads Designer v10.14.4.4
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USER: Debbye Hassell
DATE PLOTTED: 9/7/2005 7:08:02 PM



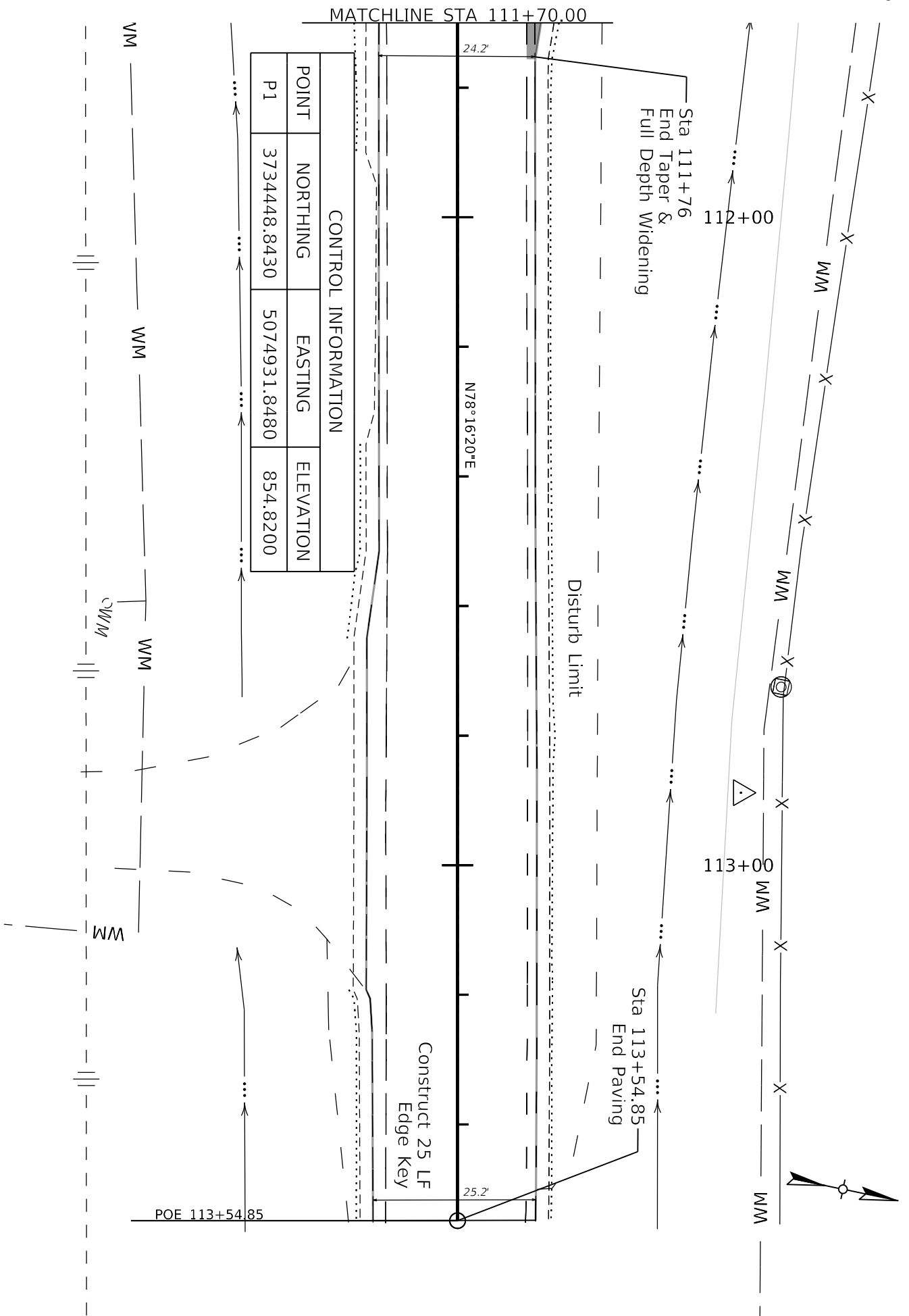
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA 111+70 TO STA 113+54.85



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
R009	



CONTROL INFORMATION			
POINT	NORTHING	EASTING	ELEVATION
P1	3734448.8430	5074931.8480	854.8200



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

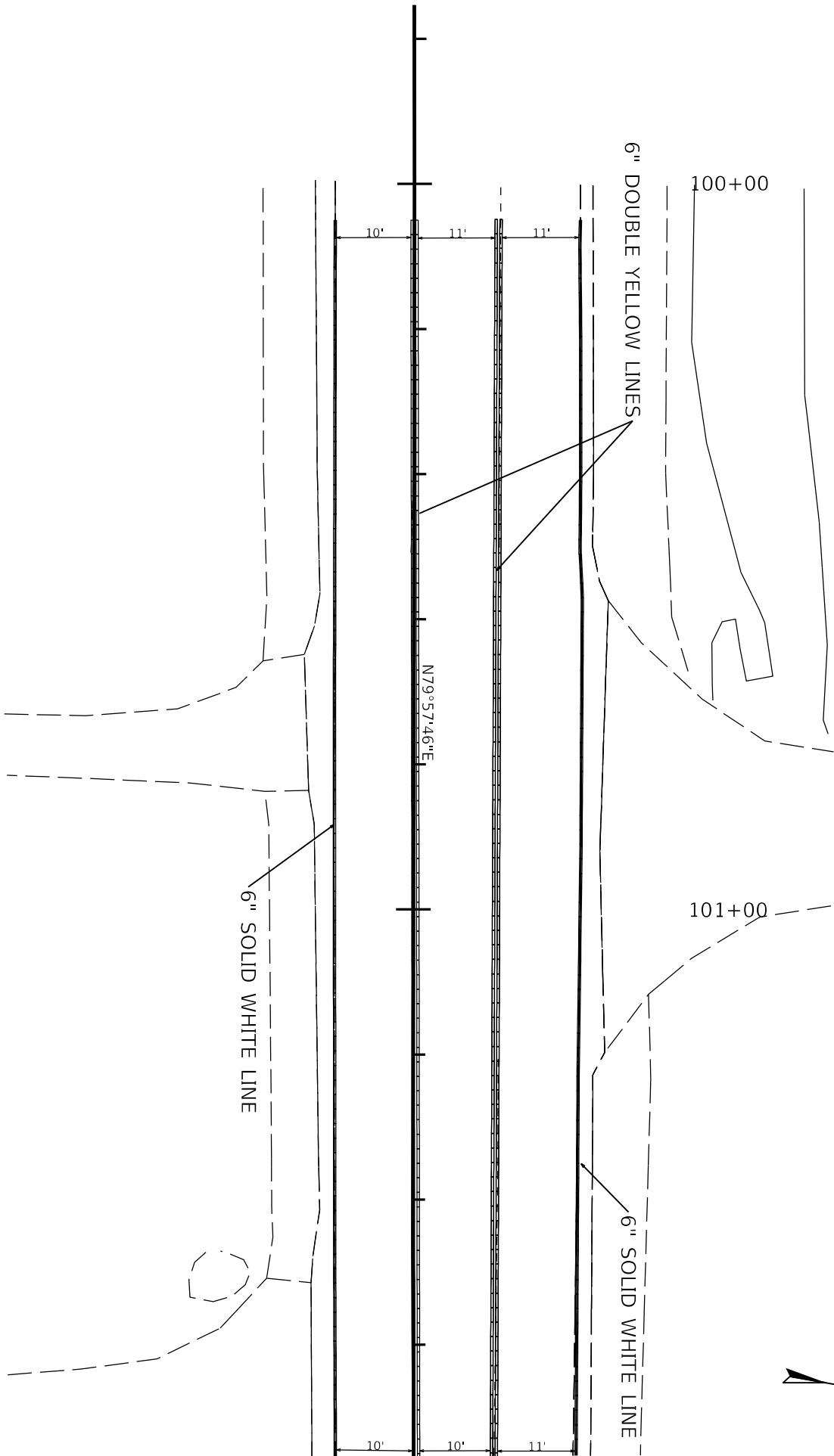


DRAWING TITLE:
STA 100+05 TO STA 101+75

USER: debbyehassel
DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
T001	





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



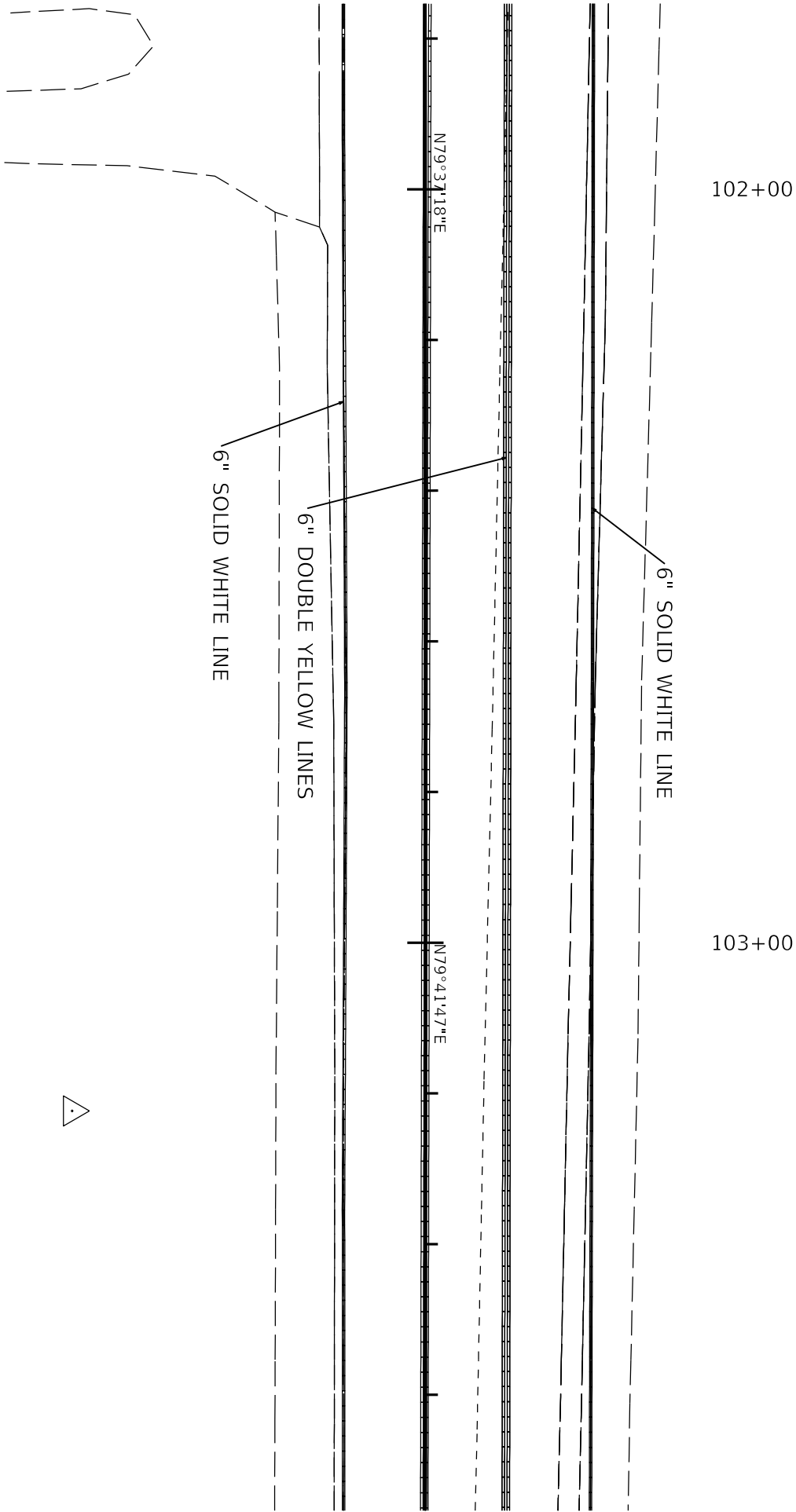
DRAWING TITLE:
STA 101+75 TO STA 103+75

USER: debbyehassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.		COUNTY OF	
04_9021.00		MARION	
SHEET NO.			
T002			





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

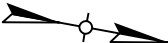
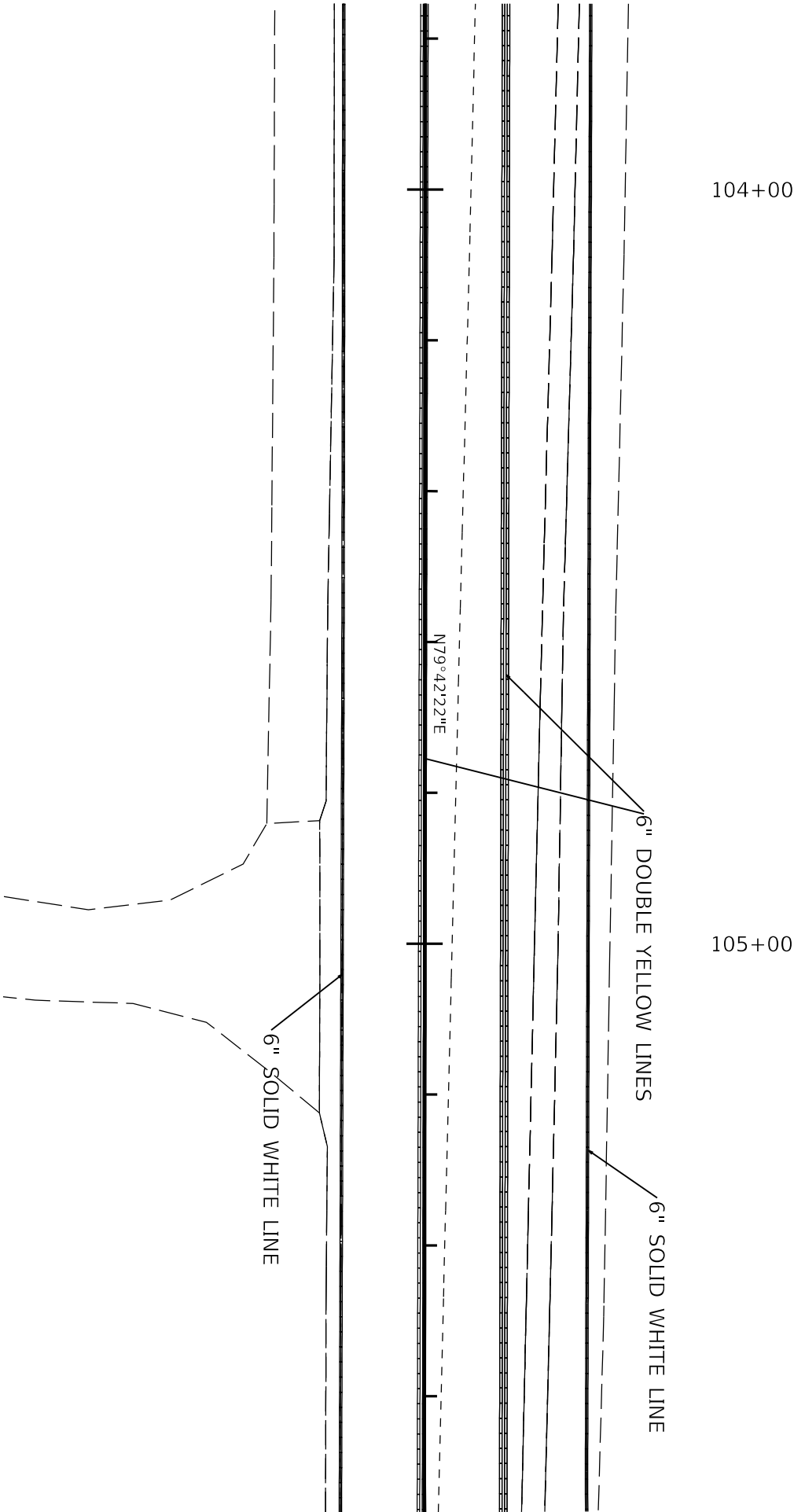


DRAWING TITLE:
STA 103+75 TO STA 105+75

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\4_9021_STRIPING_PLANS.DGN
USER: debbye\hassell
DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
T003	



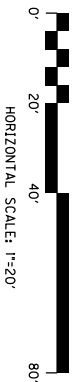


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

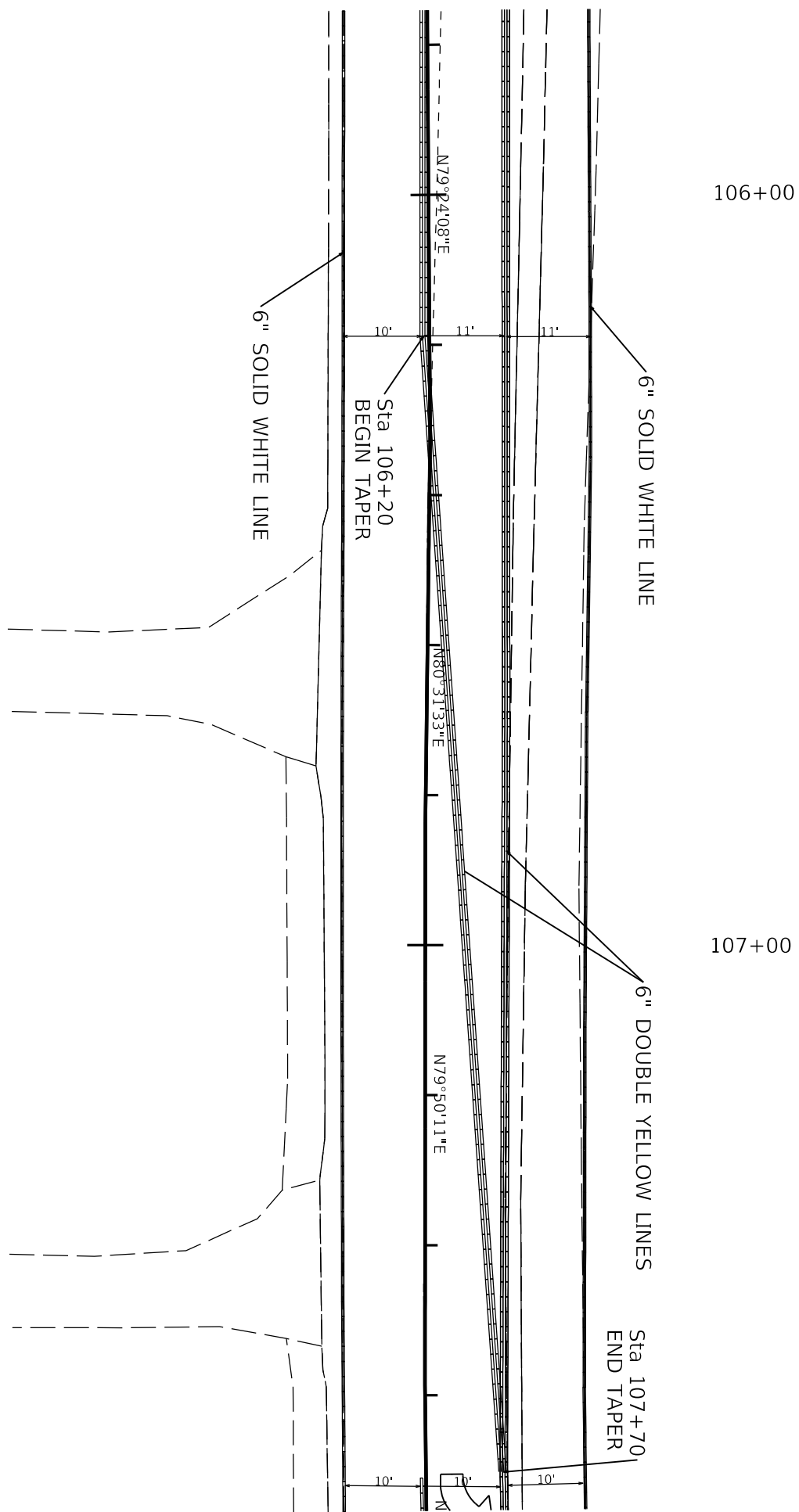


DRAWING TITLE:
STA 105+75 TO STA 107+75

USER: debbyehassell
DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
T004	





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

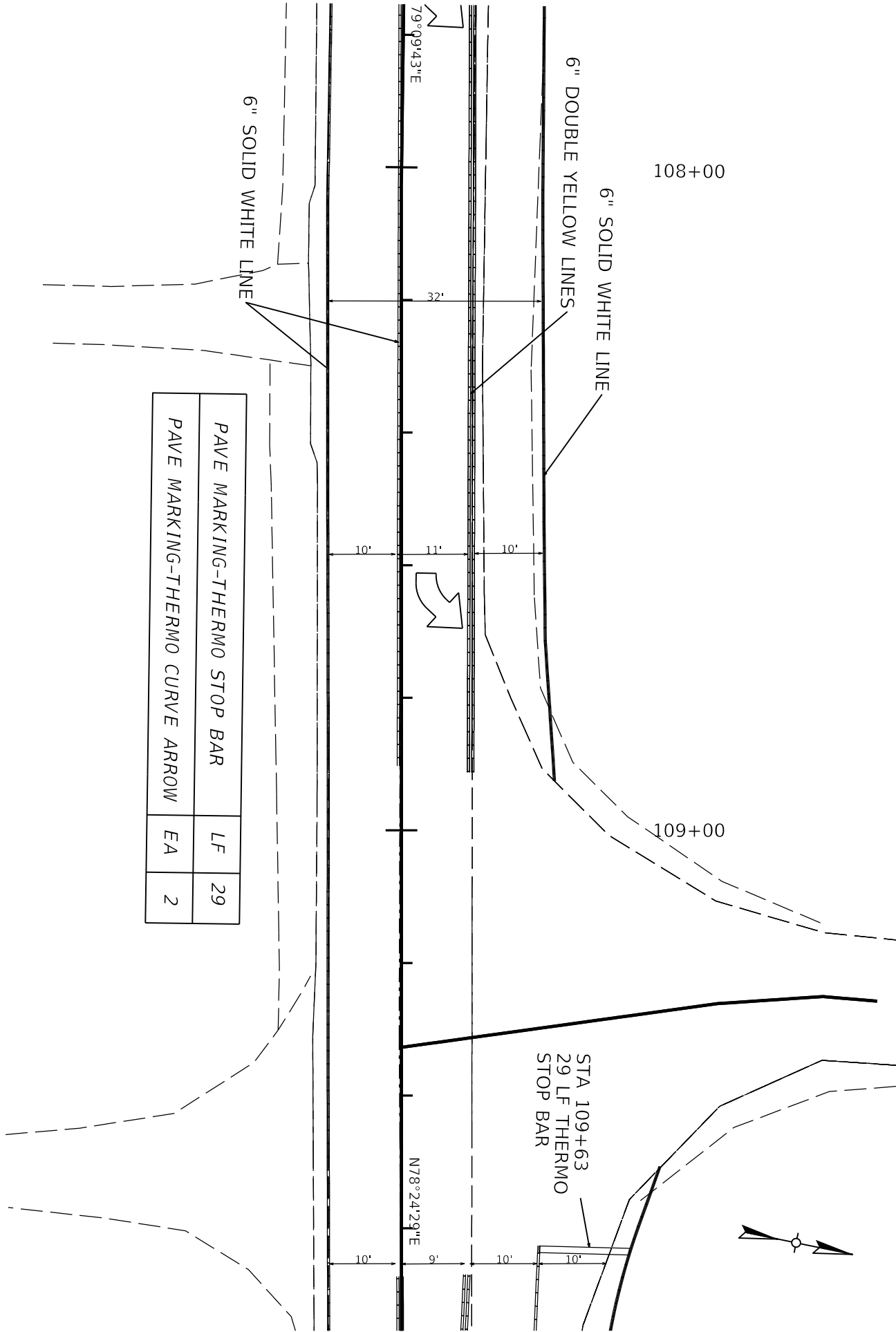


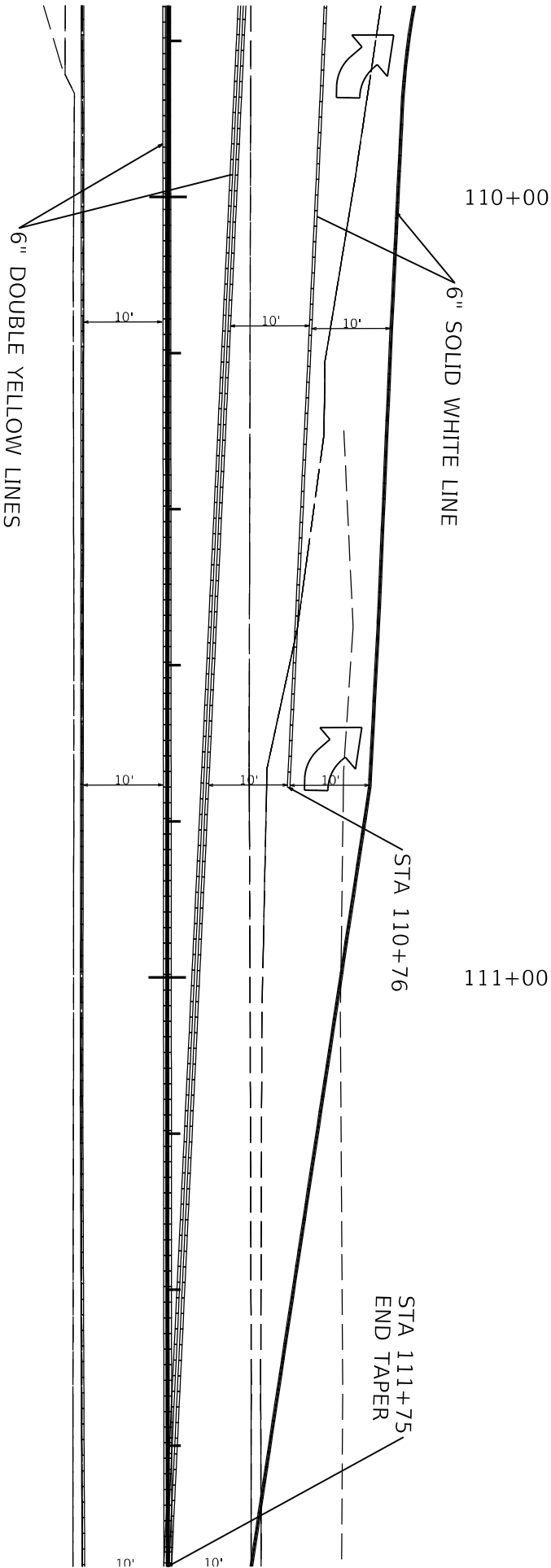
DRAWING TITLE:
STA 107+75 TO STA 109+75

USER: debbyehassell
DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
T005	





PAVEMARKING-THERMO CURVE ARROW

EA
2

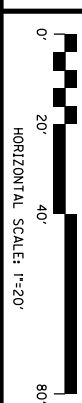
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA 109+75 TO STA 111+75



ITEM NO.
04_9021.00
COUNTY OF
MARION

SHEET NO.
T006

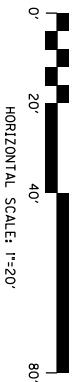


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

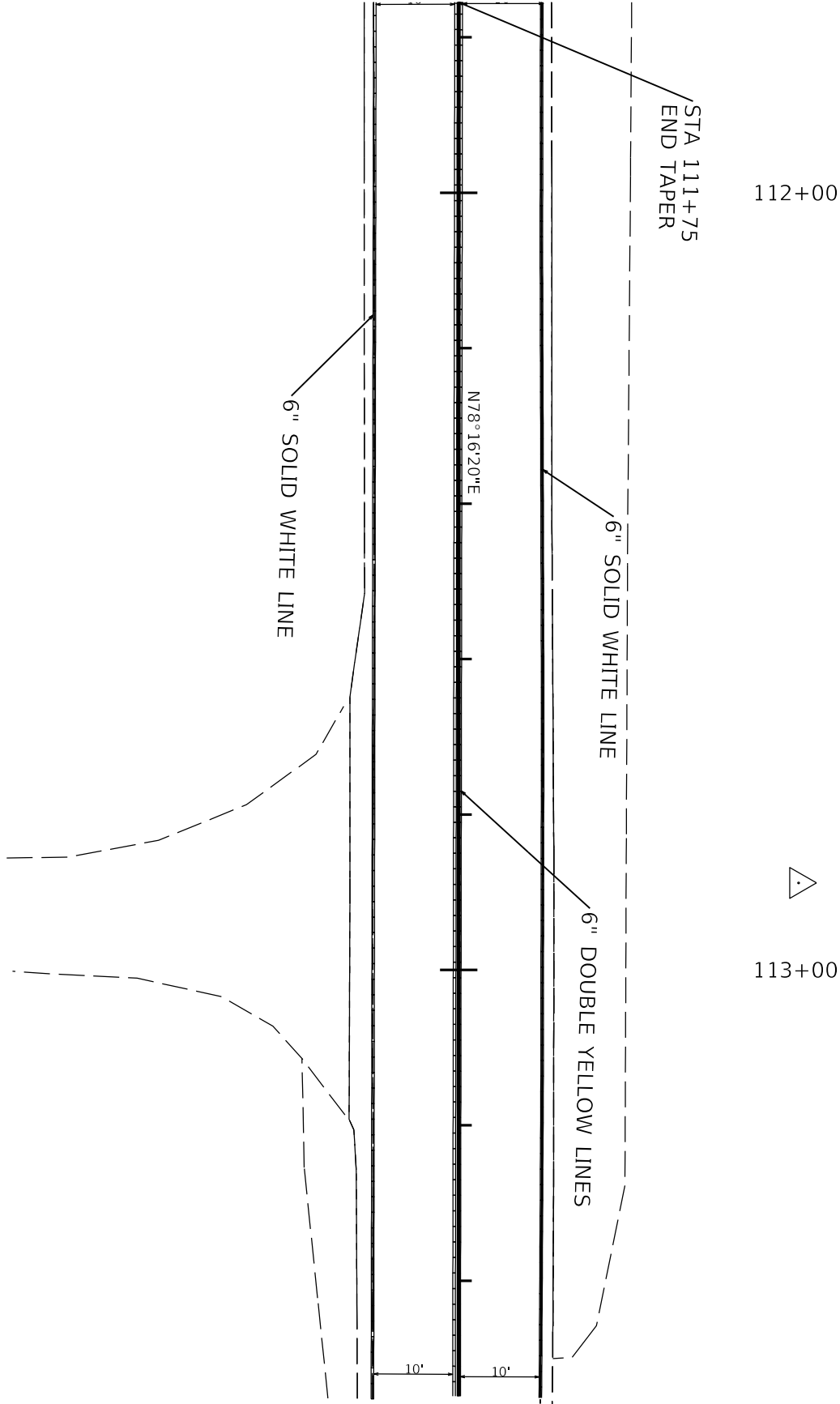


DRAWING TITLE:
STA 111+75 TO STA 113+54

DESIGNER: Designer v10.14.4.4
FILE NAME: C:\P\WORK\DEBBYE\HASSELL\01305118_4_9021_STRIPING_PLANS.DGN
USER: debbye\hassell
DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
T007	



MARION COUNTY
04 078 0068 013-014

File Name: C:\PWORK\KDEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

User: debbye\hassell

Date Plotted: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

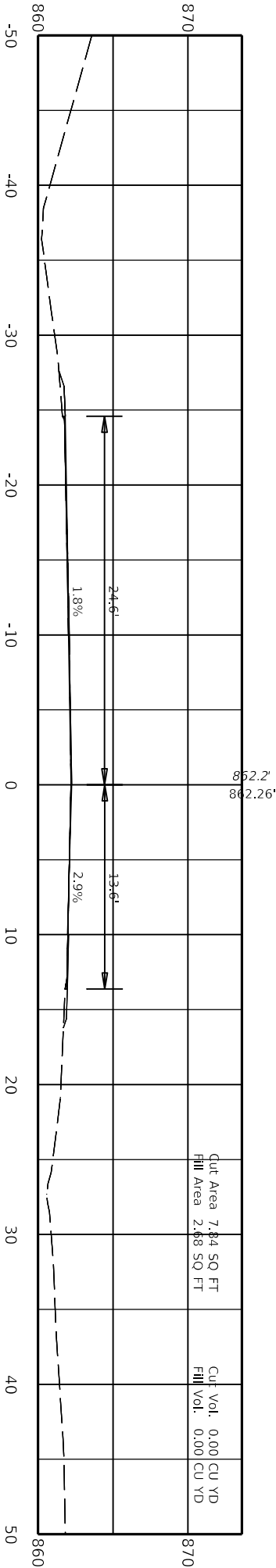


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X001	

100+05.00



MARION COUNTY
4 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM

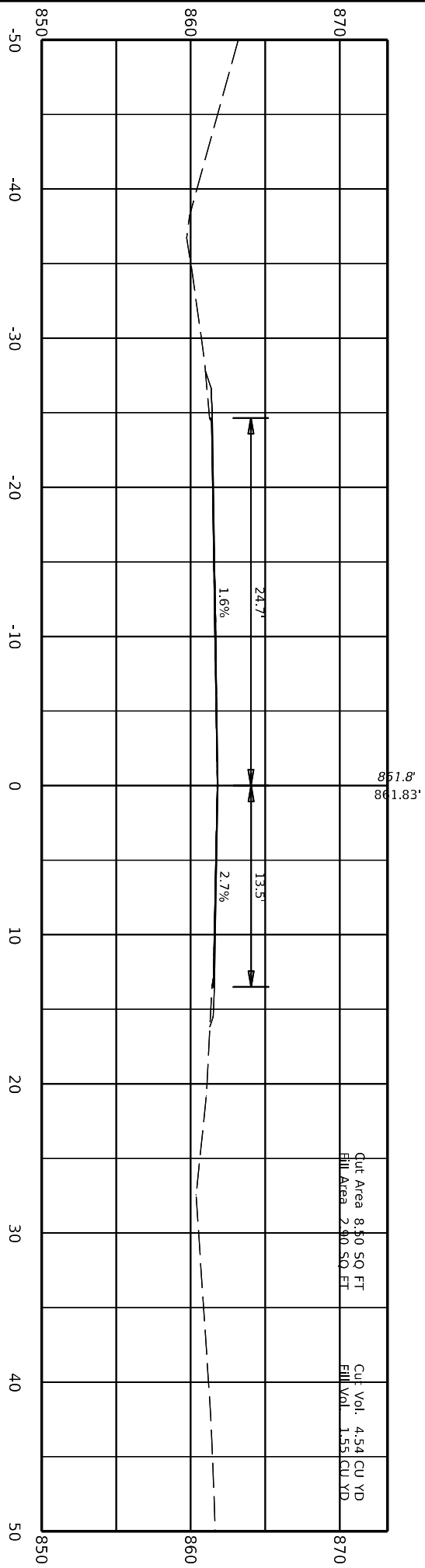


ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X002	

USER: debbye.hassell

FILE NAME: C:\PWORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

100+20.00



MARION COUNTY
04 078 0068 013-014

File Name: C:\P\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

User: debbye\hassell

Date Plotted: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

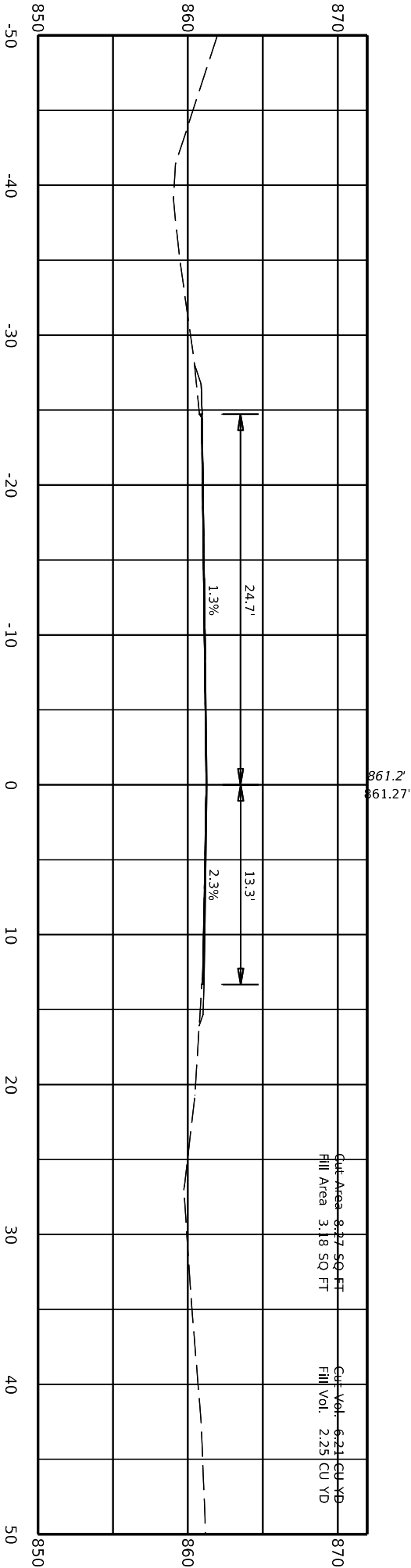


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X003	

100+40.00



MARION COUNTY
04 078 0068 013-014

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye\hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

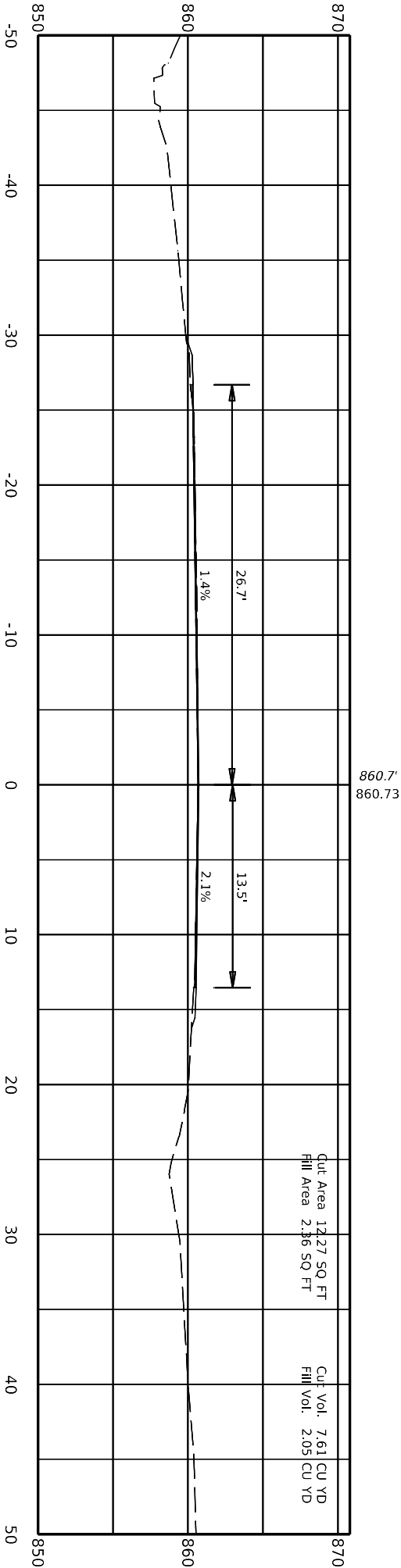


DRAWING TITLE:
STA TO




ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X004	

100+60.00




MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE-HASSELL\01905118\US_68_SECTIONS.DGN


USER: debbye/hassell



TRANSPORTATION
KENTUCKY

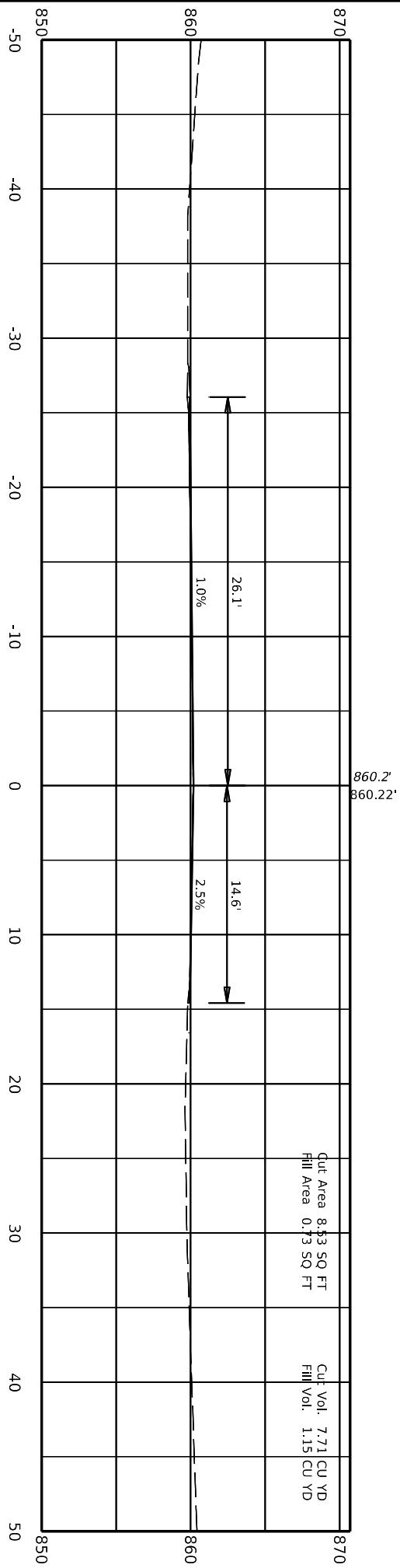
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STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM



HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X005	



MARION COUNTY
04 078 0068 013-014

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE-HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye-hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

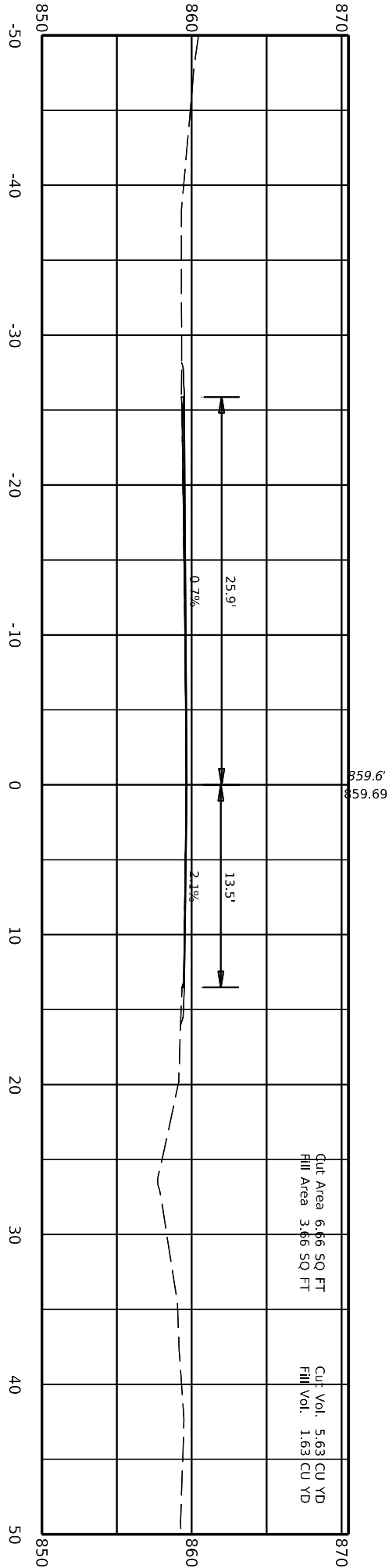


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X006	

101+00.00



MARION COUNTY
4 078 0068 013-014

PenRoads Designer v10.14.4.4
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USER: debbye\hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM

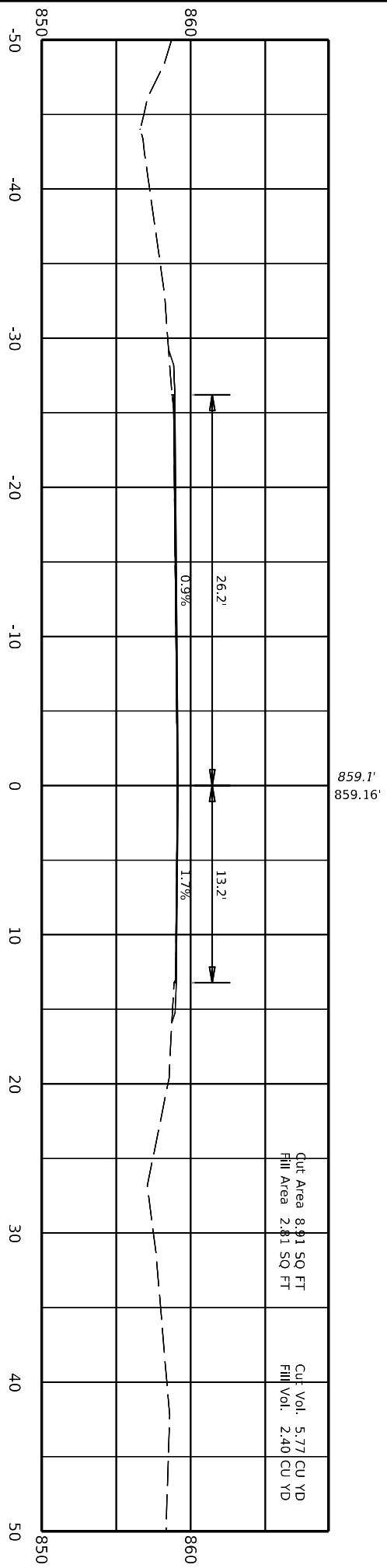


DRAWING TITLE:
STA TO



ITEM NO. 04.9021.00
SHEET NO. X007
COUNTY OF MARION

101+20.00



Cut Area 8.91 SQ FT
Fill Area 2.81 SQ FT

Cut Vol. 5.77 CU YD
Fill Vol. 2.40 CU YD

859.1'
859.16'

MARION COUNTY
04 078 0068 013-014

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye/hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

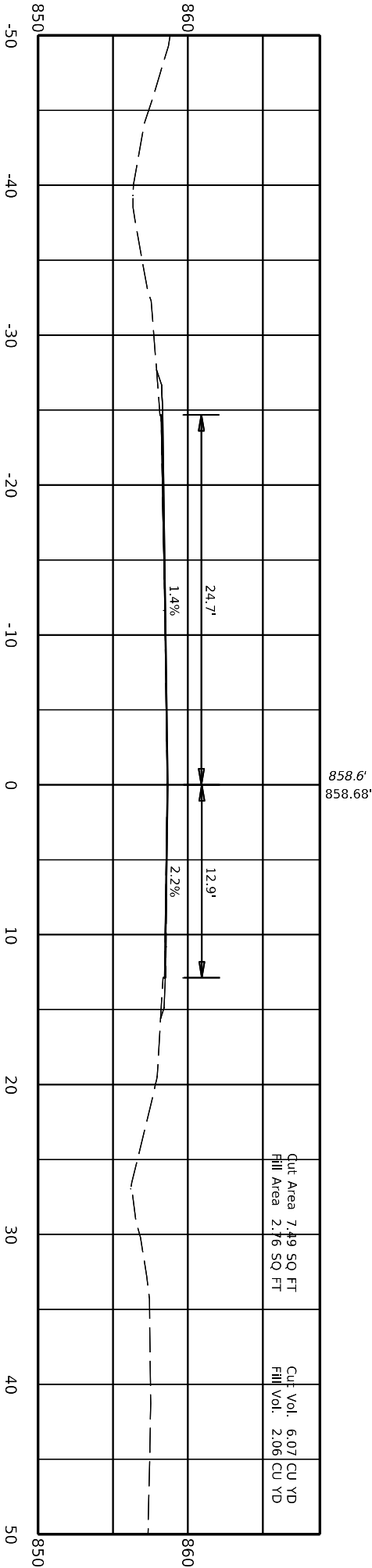


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X008	

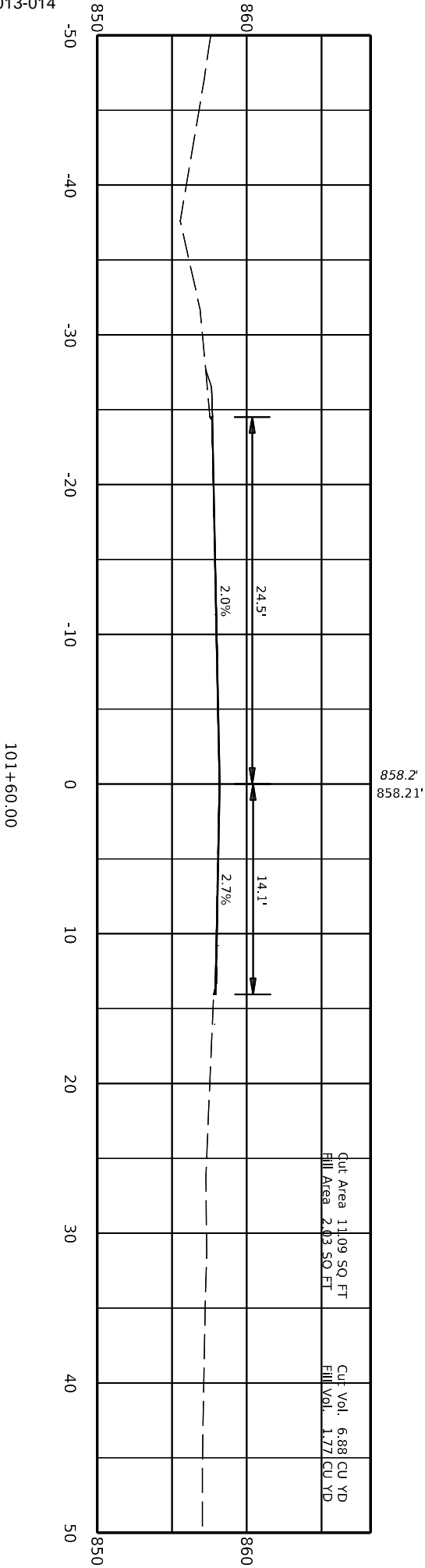
101+40.00



Cut Area 7.49 SQ FT
Fill Area 2.76 SQ FT

Cut Vol. 6.07 CU YD
Fill Vol. 2.06 CU YD

STA 101+75
BEGIN PAVEMENT WIDENING



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:
STA TO

HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04.9021.00	MARION
SHEET NO.	
X009	

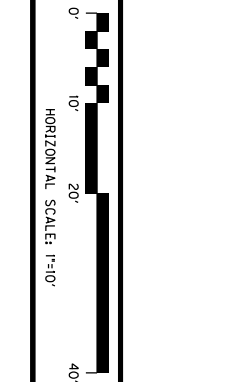
MARION COUNTY
04 078 0068 013-014

04 078 0068 013-014
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User: debbye-hassell

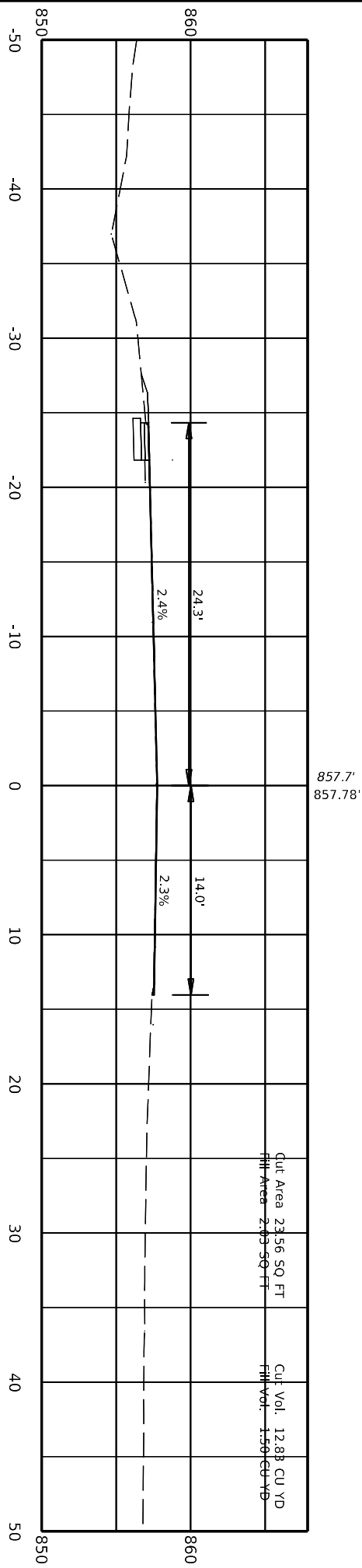
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:
STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X010	

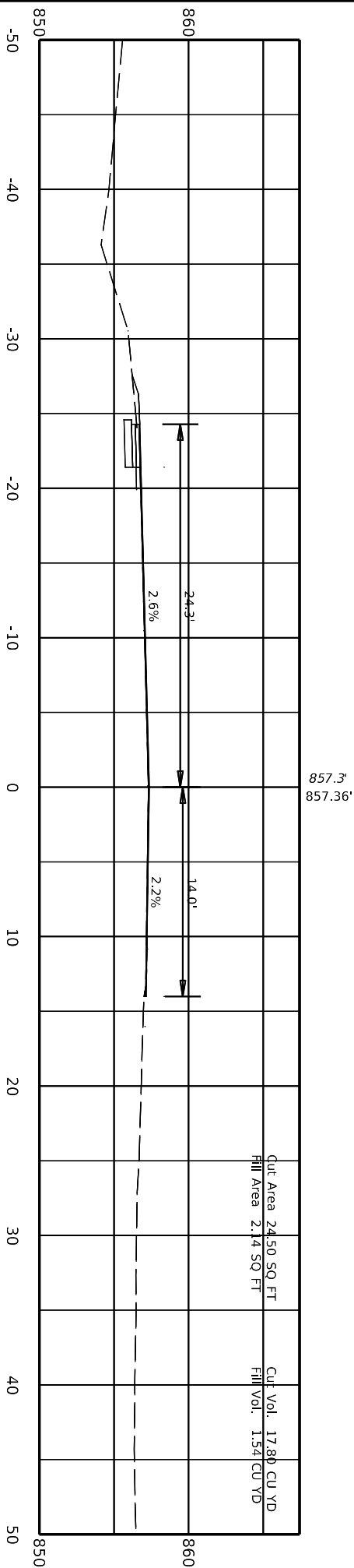
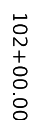




COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X011	

MARION COUNTY
04 078 0068 013-014

CommonRoads Designer v10.14.4.4
FILE NAME: C:\P\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye/hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

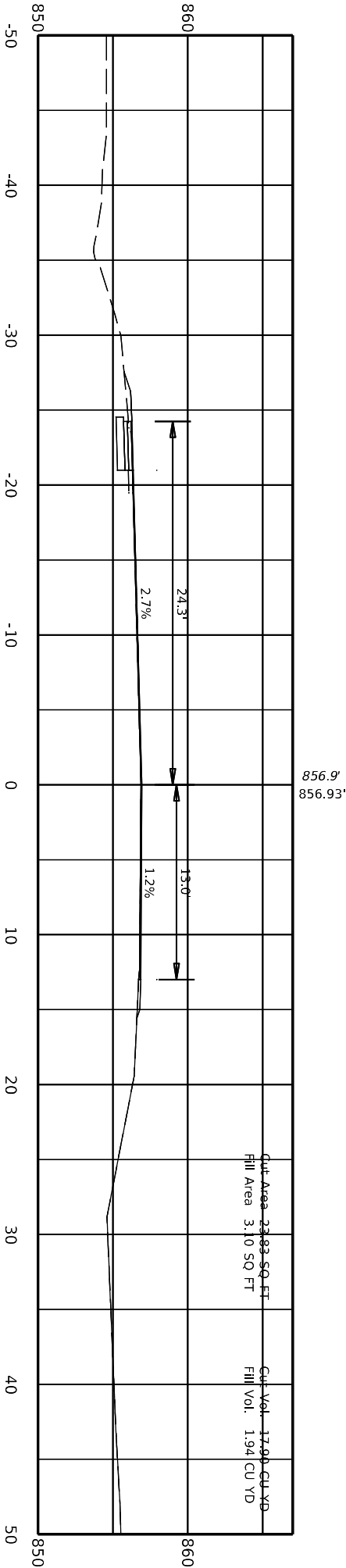


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X012	

102+20.00



856.9'
856.93'

Cut Area 23.83 SQ FT
Fill Area 3.10 SQ FT
Cut Vol. 17.90 CU YD
Fill Vol. 1.94 CU YD

MARION COUNTY
04 078 0068 013-014

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbyehassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

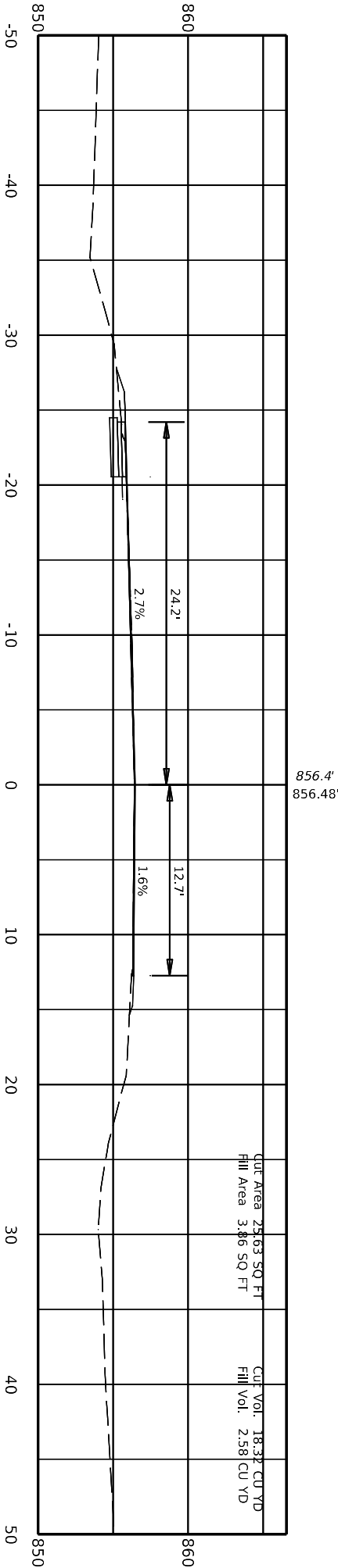


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X013	

102+40.00



MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



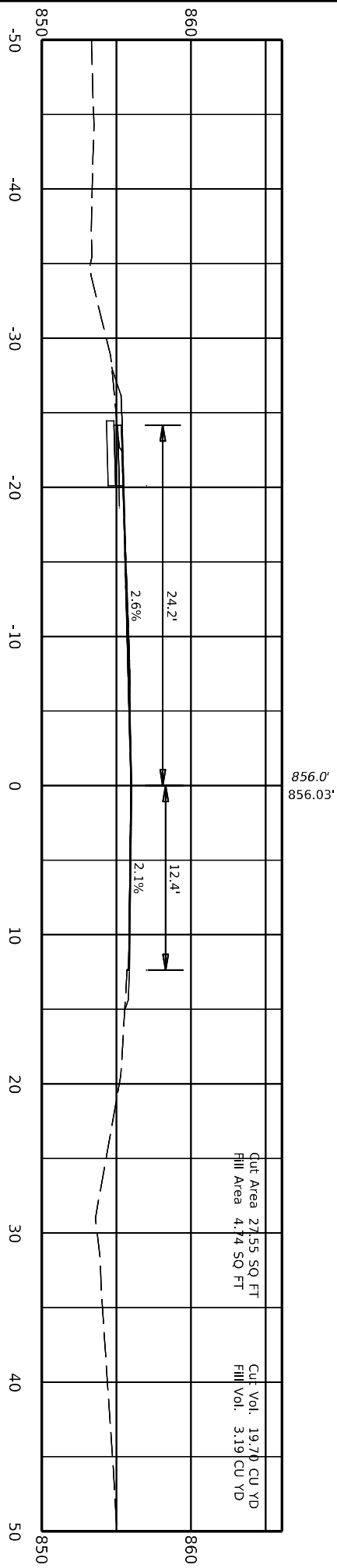
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STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X014	

102+60.00



MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



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STA TO

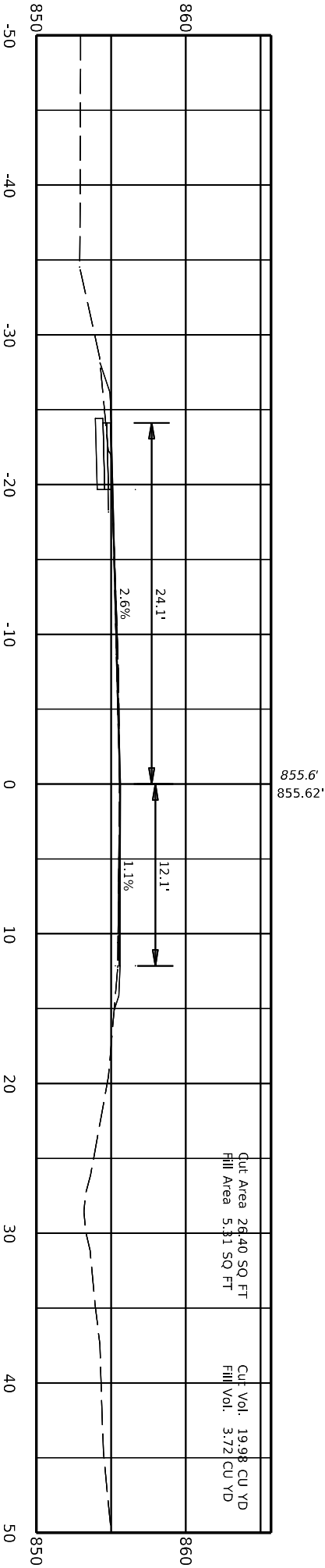
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DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X015	

102+80.00



MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



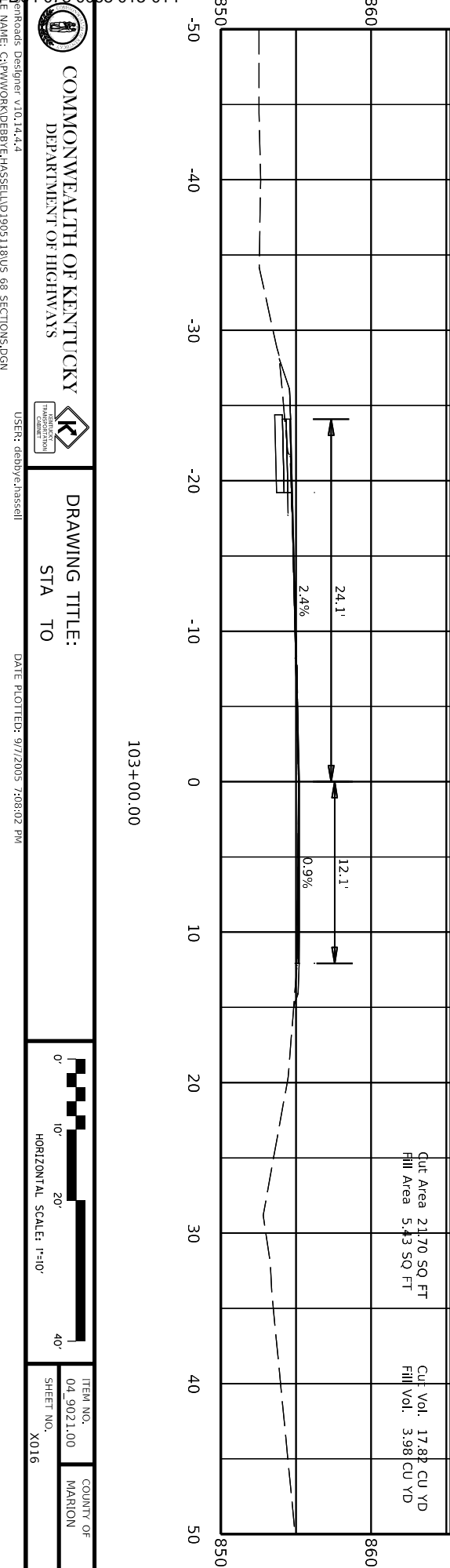
DRAWING TITLE:
STA TO

USFR: debbye/hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.
04_9021.00
SHEET NO.
X016
COUNTY OF
MARION



103+00.00

855.2'
855.23'

Cut Area 21.70 SQ FT
Fill Area 5.43 SQ FT

Cut Vol. 17.88 CU YD
Fill Vol. 3.98 CU YD



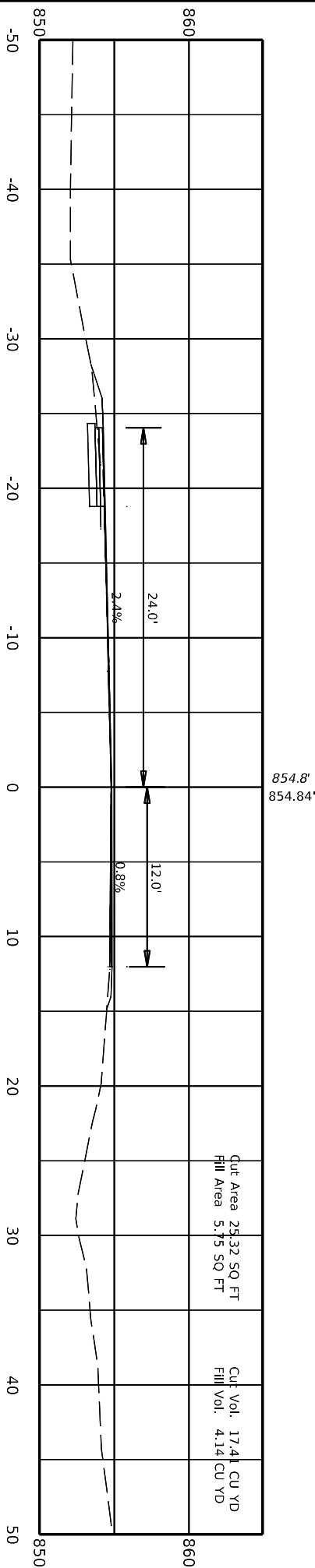
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

USER: debbye.hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X017	

Marion County
4 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

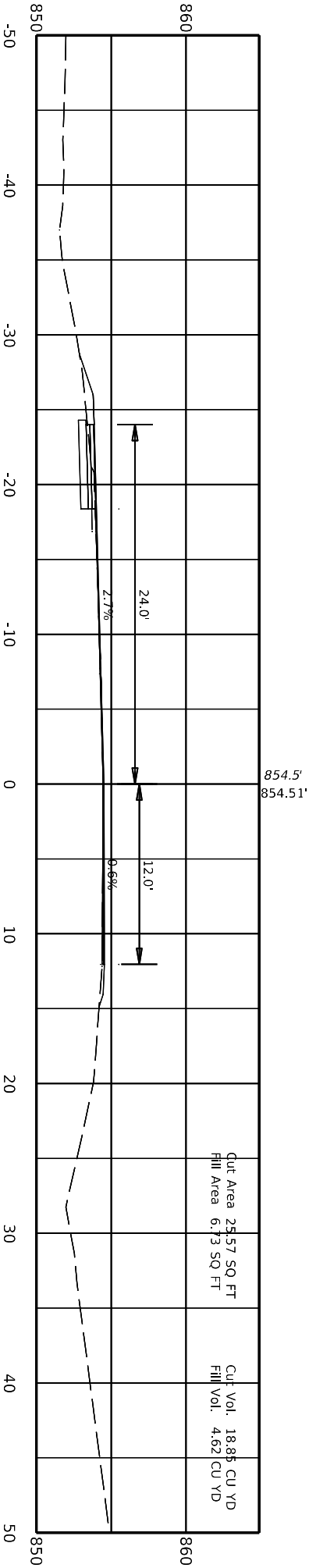
USER: debbyehassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X018	

103+40.00



Cut Area 25.57 SQ FT
Fill Area 6.73 SQ FT

Cut Vol. 18.88 CU YD
Fill Vol. 4.62 CU YD

Marion County
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

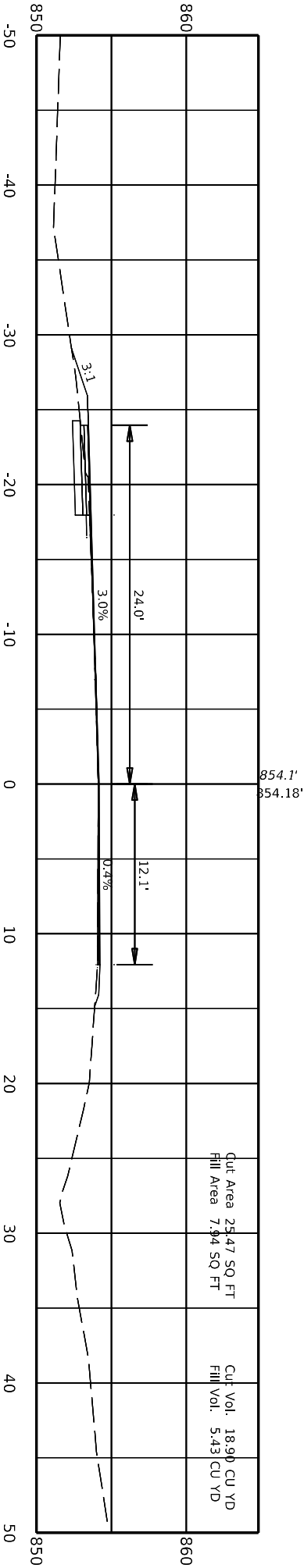
USER: debbye.hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X019	

103+60.00

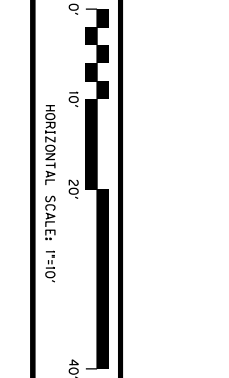


Marion County
04 078 0068 013-014

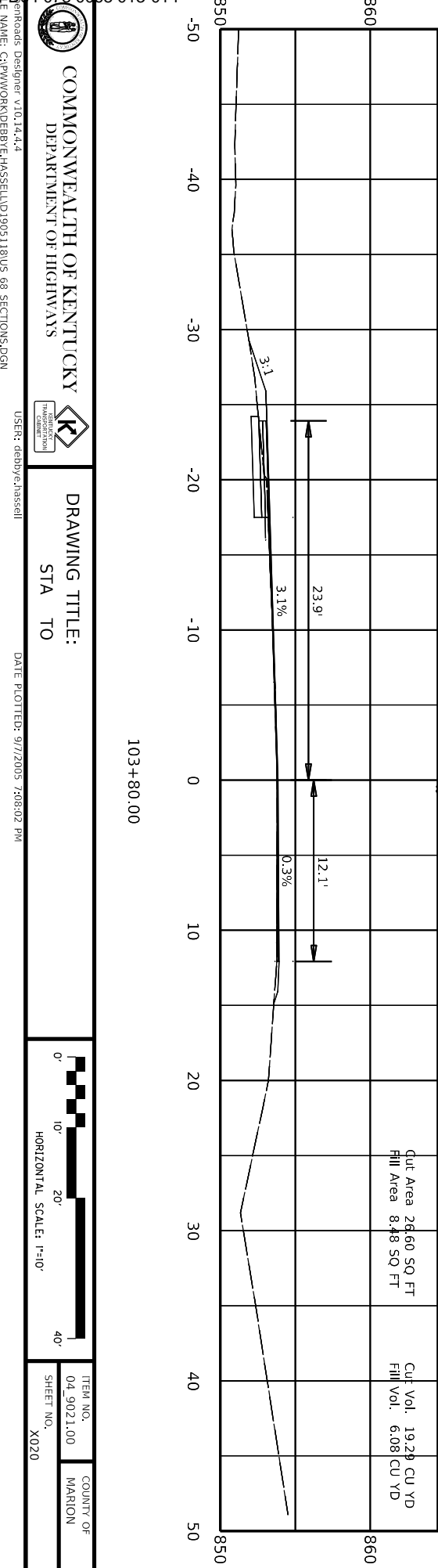
Commonwealth of Kentucky
Department of Highways

USFR: debby/hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X020	



853.8'
853.85'

Cut Area 26.60 SQ FT
Fill Area 8.48 SQ FT

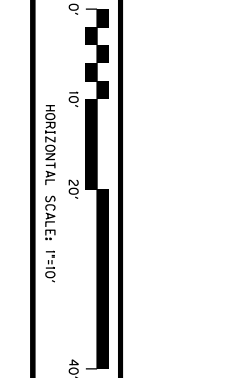
Cut Vol. 19.28 CU YD
Fill Vol. 6.08 CU YD

MARION COUNTY
04 078 0068 013-014

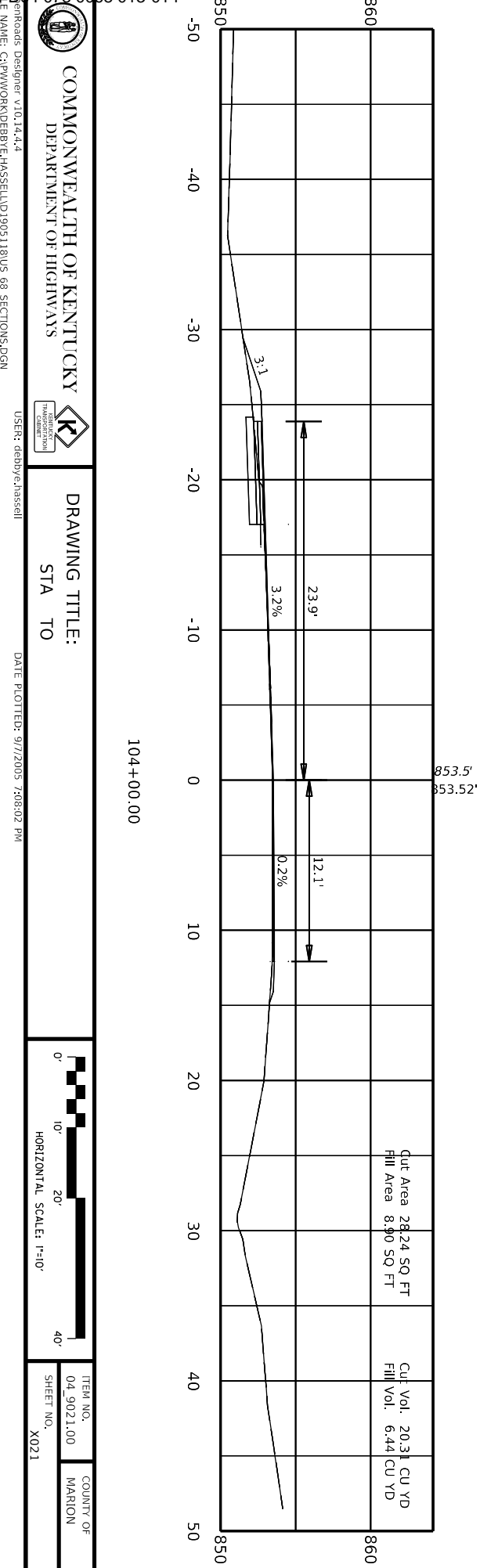
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

USFR: debby/hassell


DATE PLOTTED: 9/7/2005 7:08:02 PM




ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X021	



MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



USFR: debbyehassell

DATE PLOTTED: 9/7/2005 7:08:02 PM

0'

10'

20'

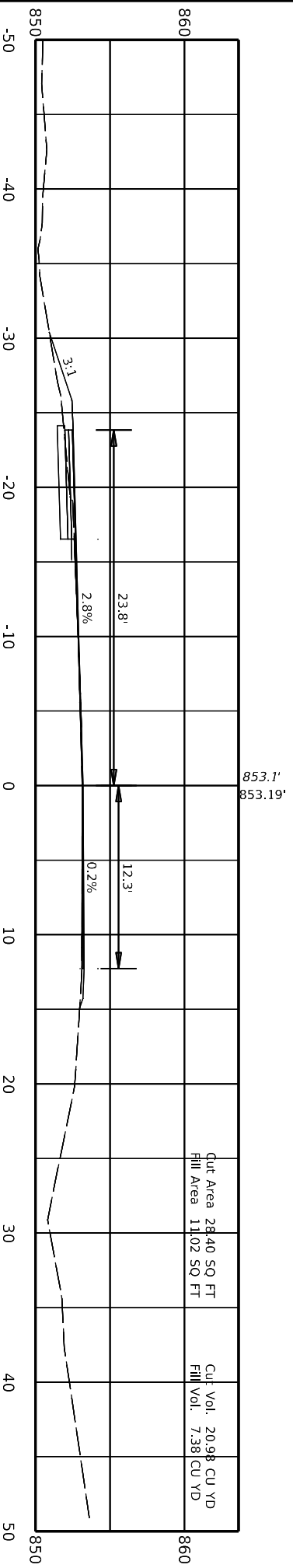
40'

HORIZONTAL SCALE: 1"=10'

ITEM NO.
04_9021.00

COUNTY OF
MARION

SHEET NO.
X022



MARION COUNTY
4 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



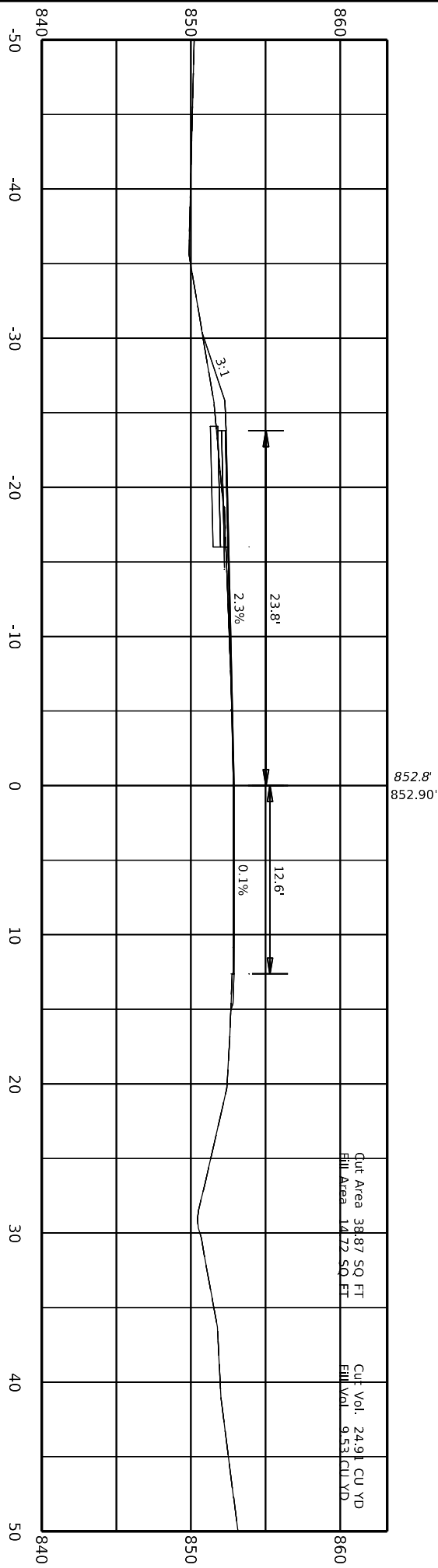
DRAWING TITLE:
STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM
USER: debbyehassell



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X023	

104+40.00

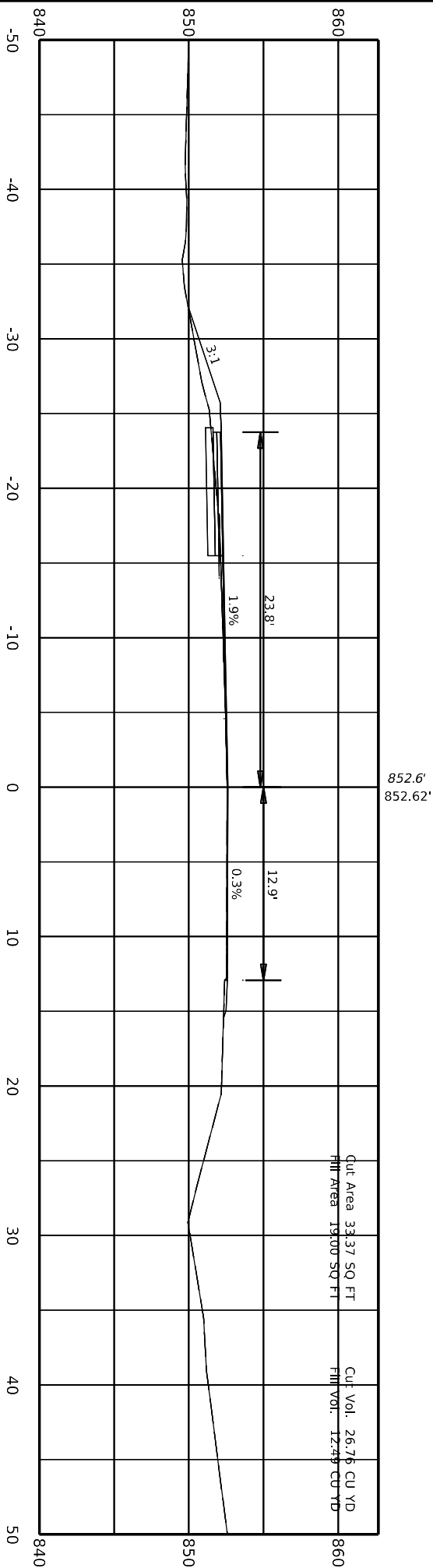
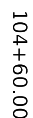




COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO



Cut Area	33.37	SQ FT
Fill Area	19.00	SQ FT

Cut Vol.	26.76 CU YD
Fill Vol.	12.49 CU YD



HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X024	

MARION COUNTY
04 078 0068 013-014

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:
STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM

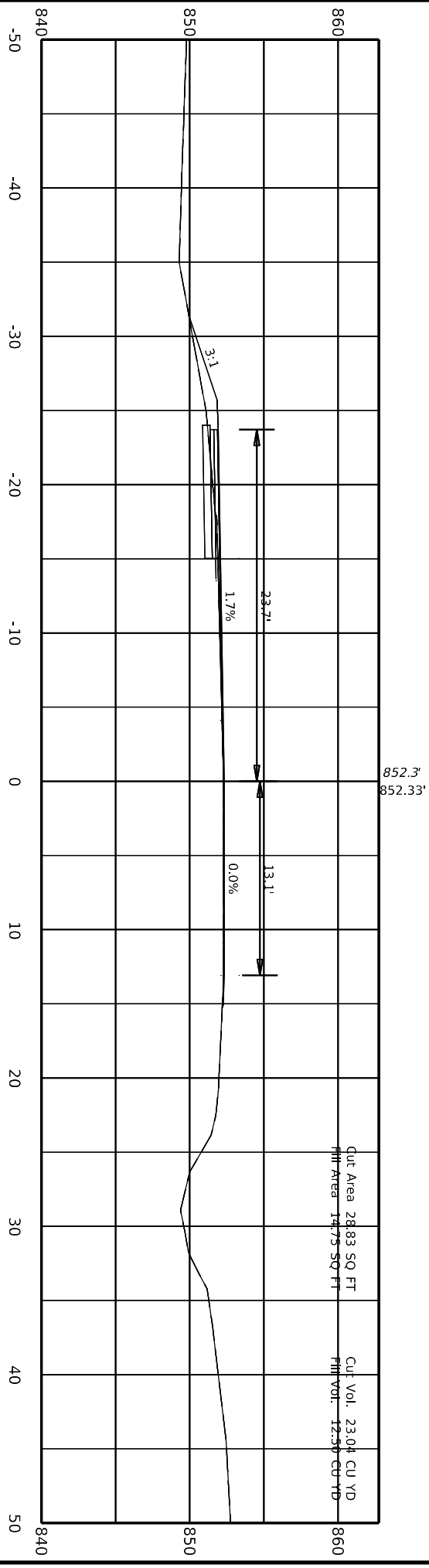
ITEM NO.
04 9021.00

COUNTY OF
MARION

SHEET NO.
X025

FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN
USER: debbye\hassell

104+80.00



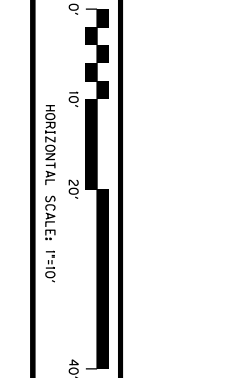
MARION COUNTY
04 078 0068 013-014

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

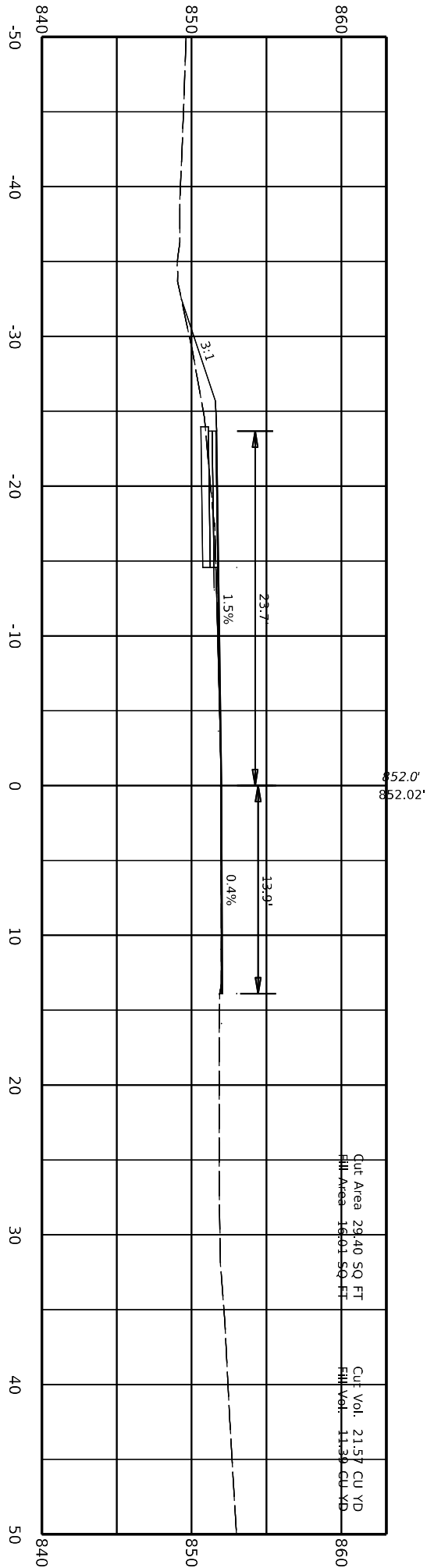
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STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X026	

105+00.00



Cut Area 29.40 SQ FT
Fill Area 16.01 SQ FT

Cut Vol. 21.57 CU YD
Fill Vol. 11.31 CU YD



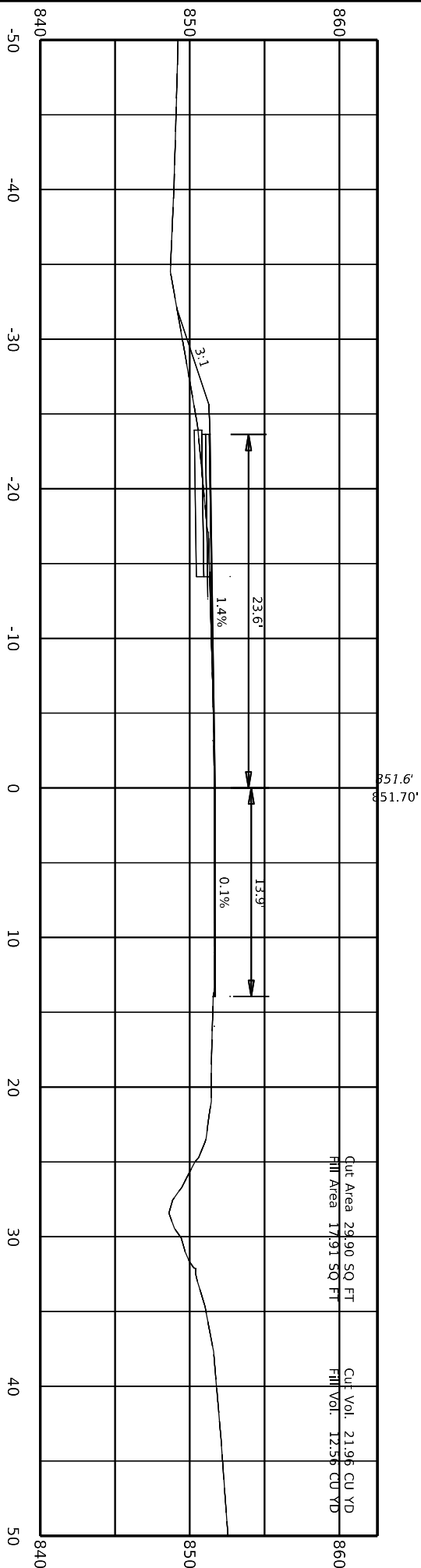
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

USER: debbye.hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X027	

MARION COUNTY
4 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

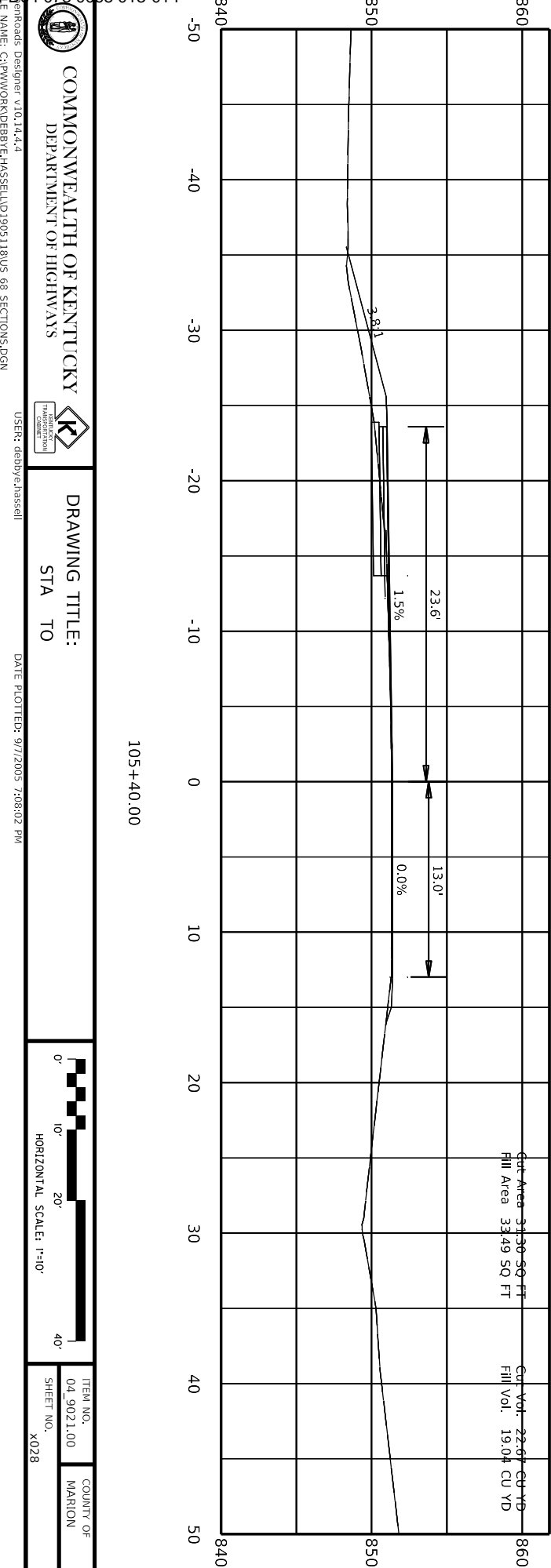
DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X028	

USER: debbye.hassell

File Name: C:\PWORK\DEBBYE\HASSELL\0130518\US_68_SECTIONS.DGN



105+40.00

MARION COUNTY
04 078 0068 013-014

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye\hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

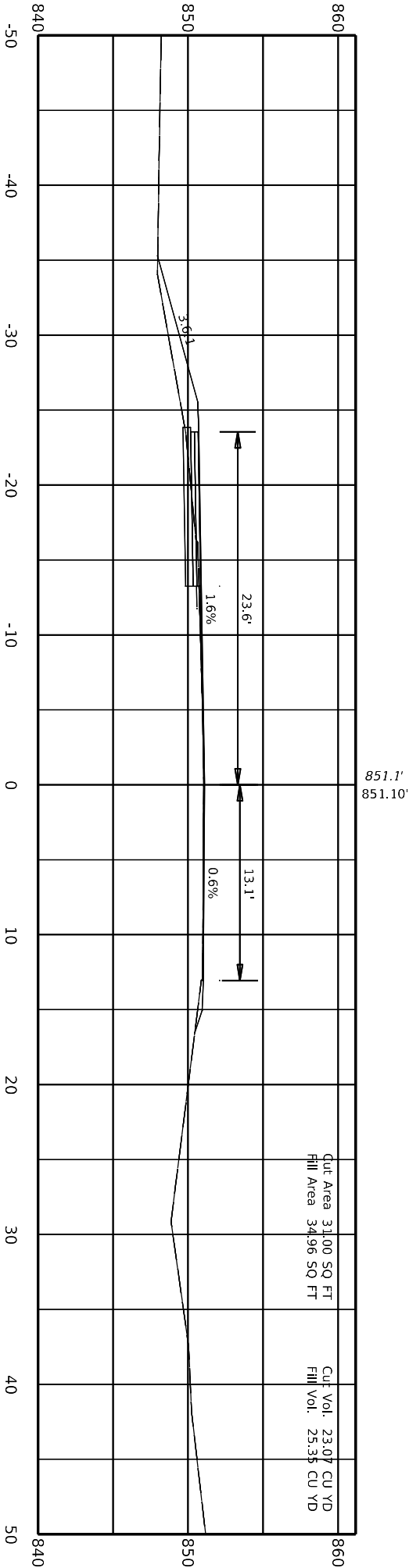


DRAWING TITLE:
STA TO



ITEM NO. 04.9021.00
SHEET NO. X029
COUNTY OF MARION

105+60.00



MARION COUNTY
04 078 0068 013-014



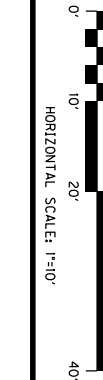
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

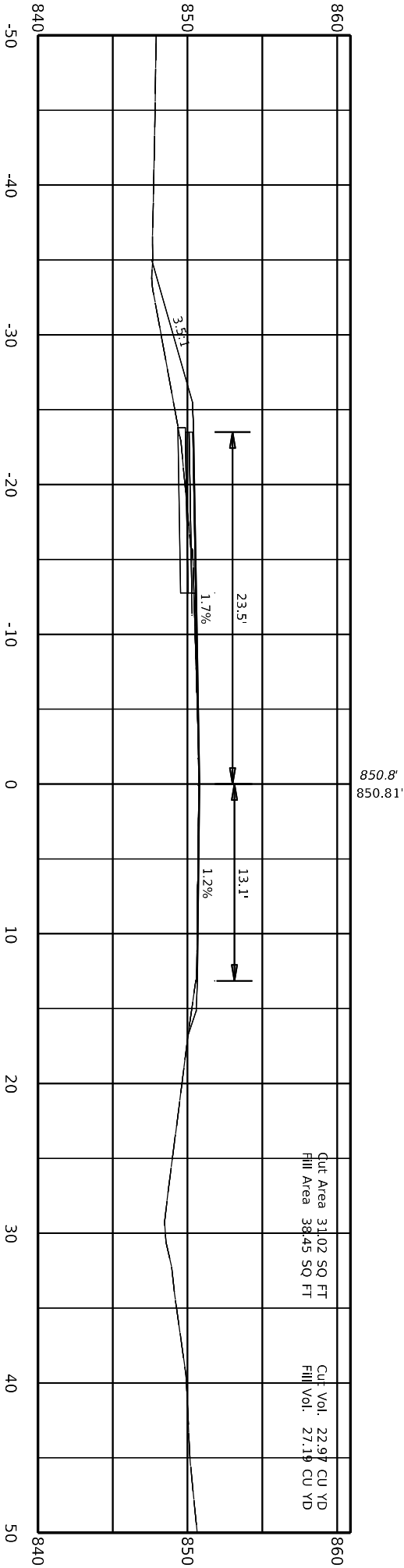
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DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO. 04_9021.00
SHEET NO. X030
COUNTY OF MARION

105+80.00



Cut Area 31.02 SQ FT
Fill Area 38.45 SQ FT

Cut Vol. 22.97 CU YD
Fill Vol. 27.19 CU YD

MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

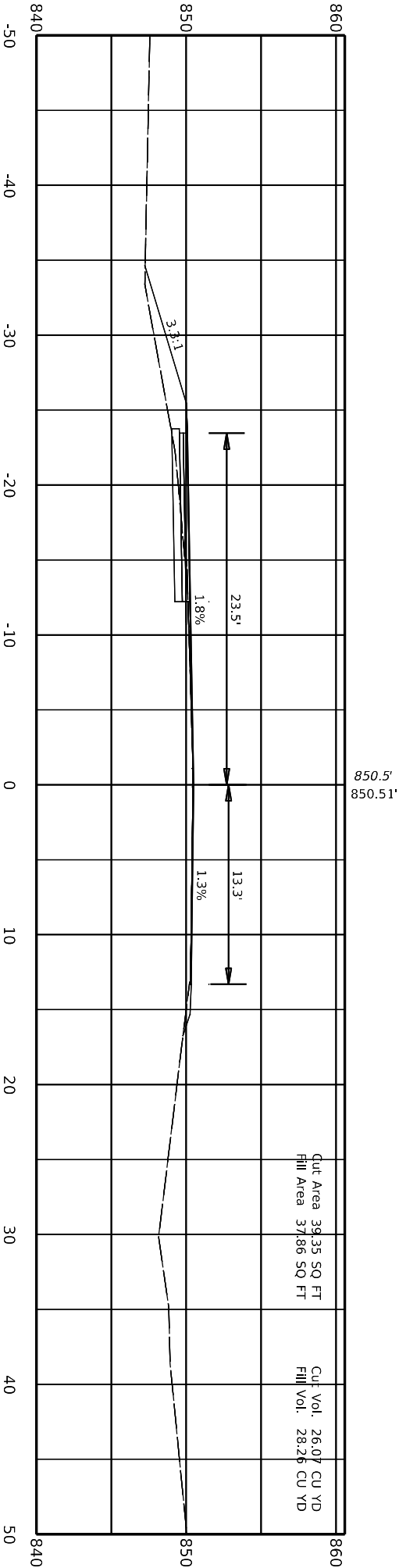
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DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO. 04.9021.00
SHEET NO. X031
COUNTY OF MARION

106+00.00



Cut Area 39.35 SQ FT
Fill Area 37.86 SQ FT

Cut Vol. 26.07 CU YD
Fill Vol. 28.26 CU YD



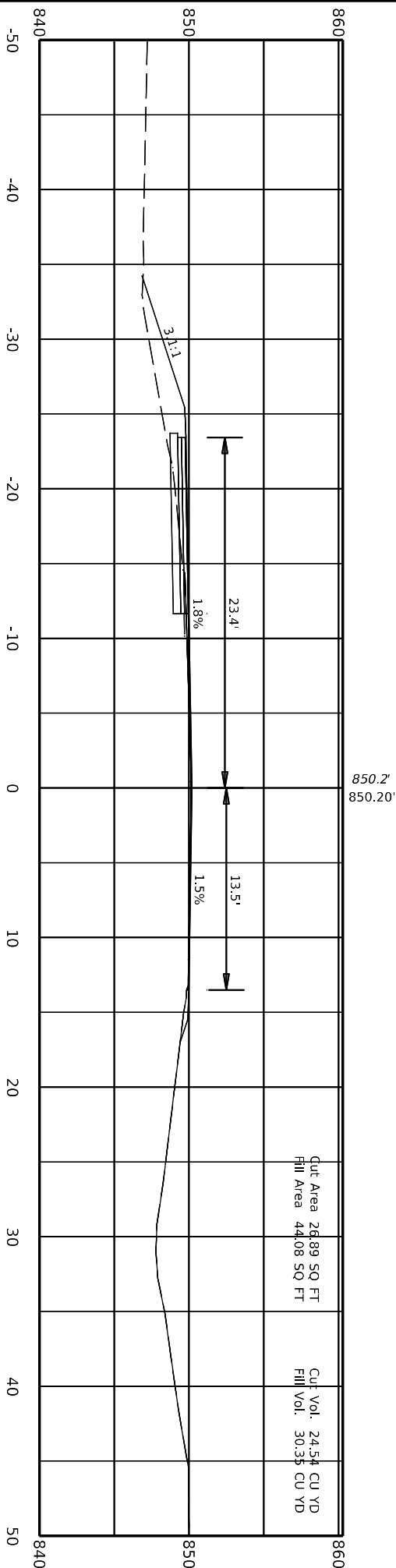
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

USER: debbye.hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X032	

ITEM NO.	COUNTY OF
04_9021.00	MARION

MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

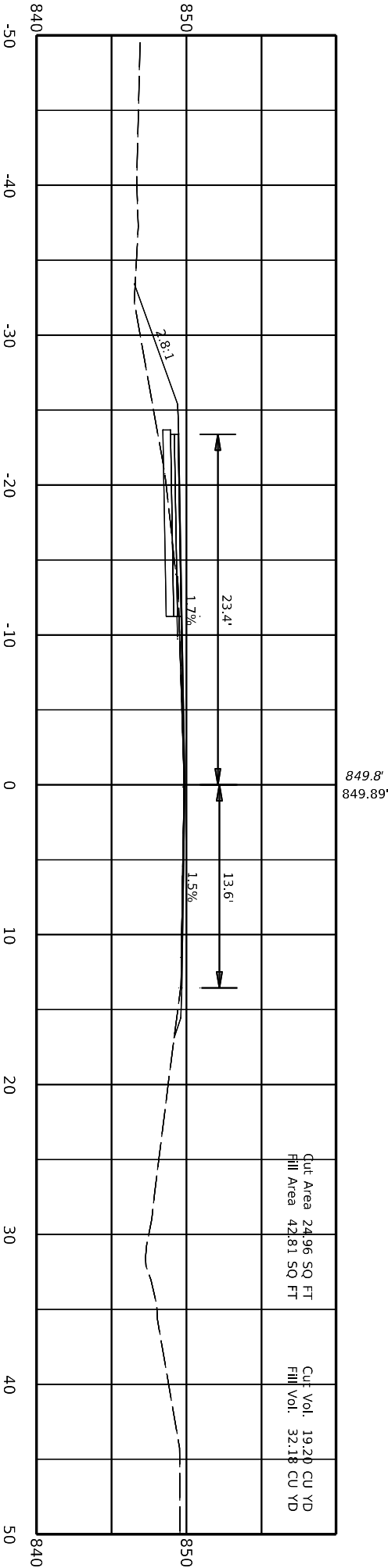
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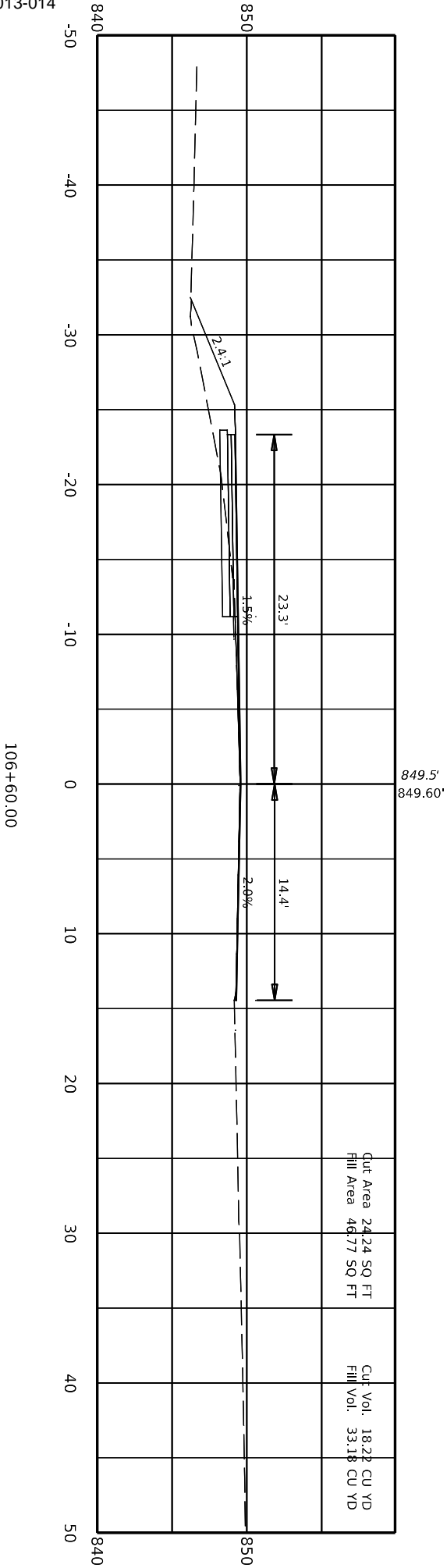


ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X033	

106+40.00



STA 106+70
FULL WIDTH PAVEMENT



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO



ITEM NO.
04.9021.00
SHEET NO.
X034
COUNTY OF
MARION

MARION COUNTY
04 078 0068 013-014

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye\hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

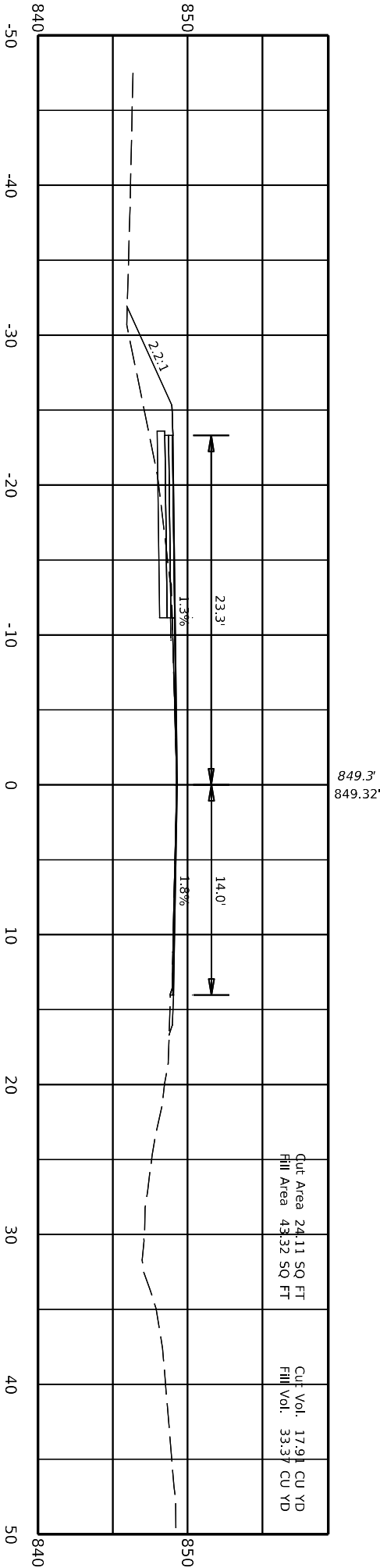


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X035	

106+80.00



MARION COUNTY
4 078 0068 013-014

File Name: C:\PWORK\KDEBBYE\HASSELL\01905118US_68_SECTIONS.DGN

User: debbye\hassell

Date Plotted: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

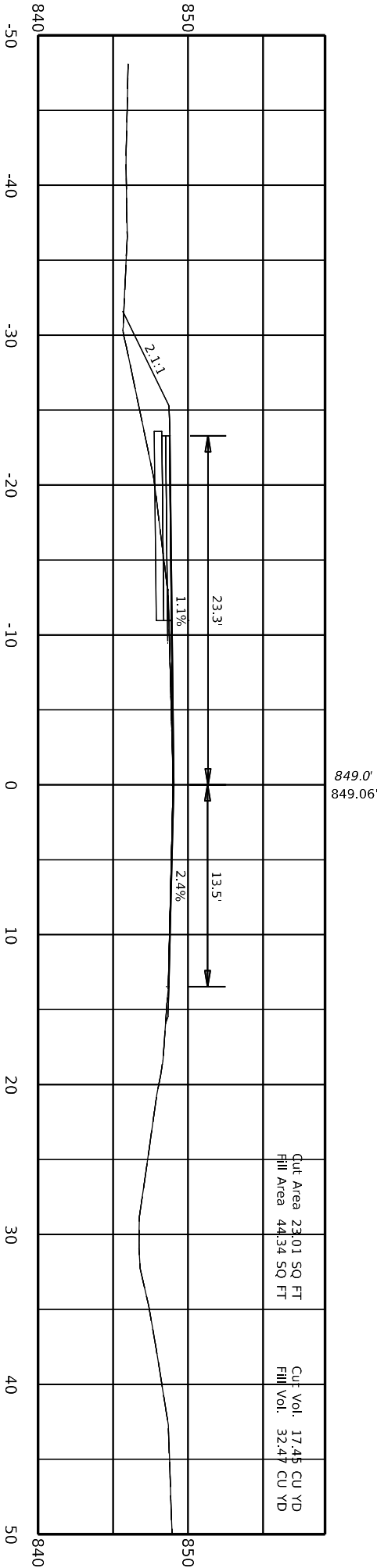


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X036	

107+00.00



Cut Area 23.01 SQ FT
Fill Area 44.34 SQ FT

Cut Vol. 17.45 CU YD
Fill Vol. 32.47 CU YD

MARION COUNTY
04 078 0068 013-014

Design: Designer v10.14.4.4
FILE NAME: C:\P\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye/hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

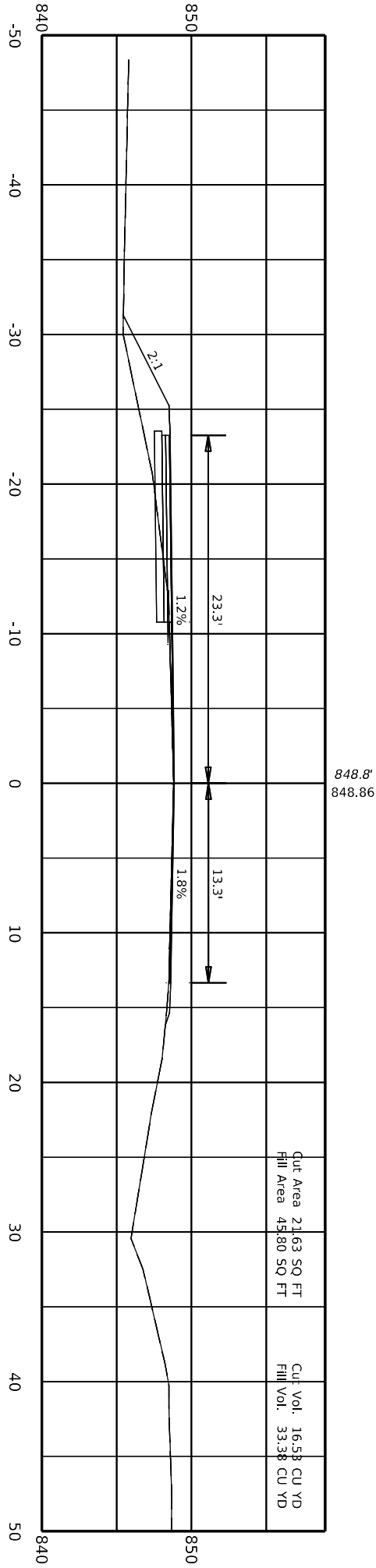


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X037	

107+20.00



Cut Area 21.63 SQ FT
Fill Area 45.80 SQ FT

Cut Vol. 16.58 CU YD
Fill Vol. 33.38 CU YD

PenRoads Designer v10.14.4.4
FILE NAME: C:\P\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye\hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

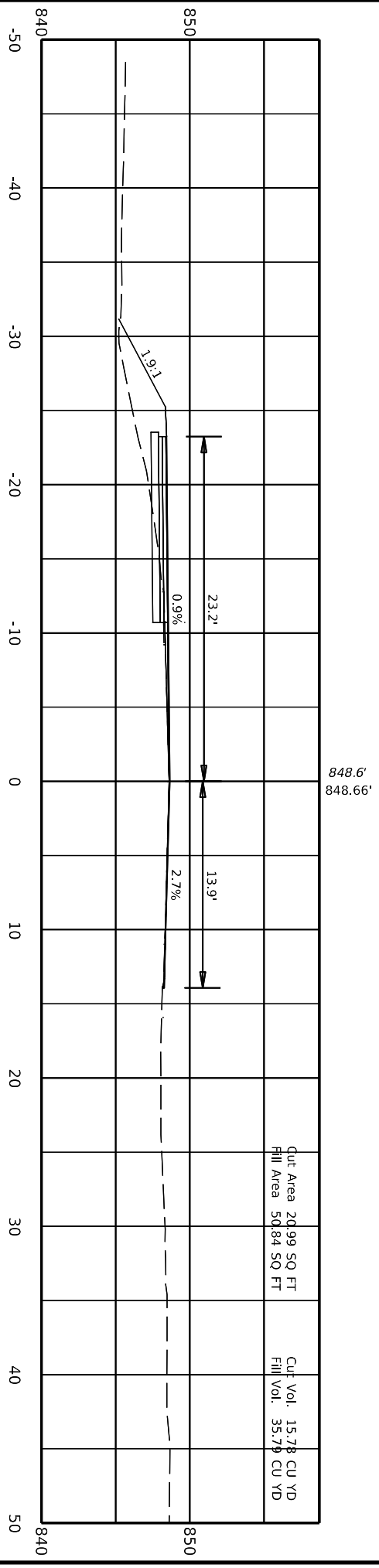


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X038	

107+40.00



Cut Area	20.99 SQ FT	Cut Vol.	15.78 CU YD
Fill Area	50.84 SQ FT	Fill Vol.	35.79 CU YD

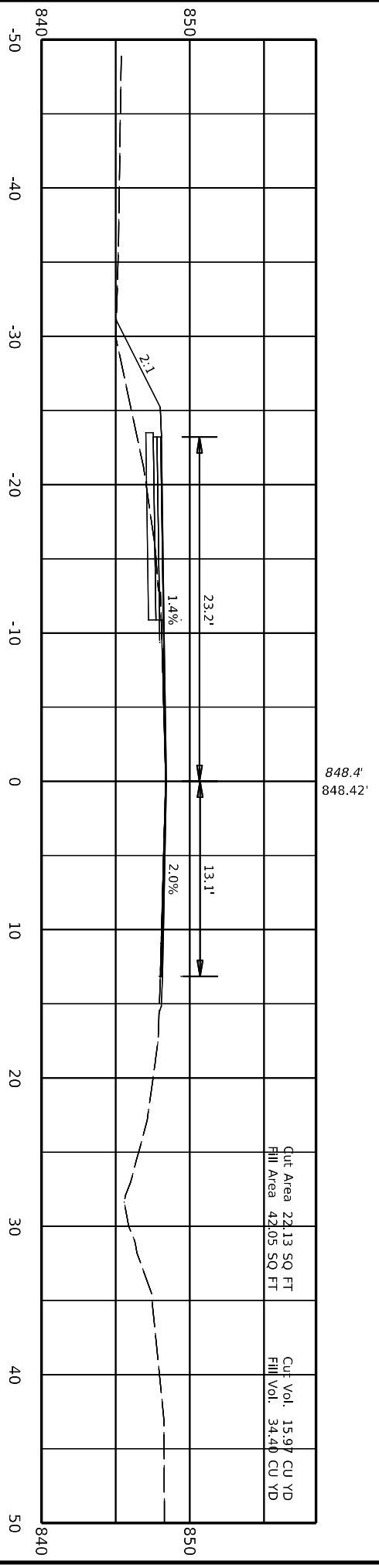


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X039	

107+60.00



Cut Area	22.13 SQ FT	Cut Vol.	15.97 CU YD
Fill Area	42.05 SQ FT	Fill Vol.	34.40 CU YD

MARION COUNTY
04 078 0068 013-014

CommonRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE-HASSELL\01905118\US_68_SECTIONS.DGN
USER: debbye-hassell



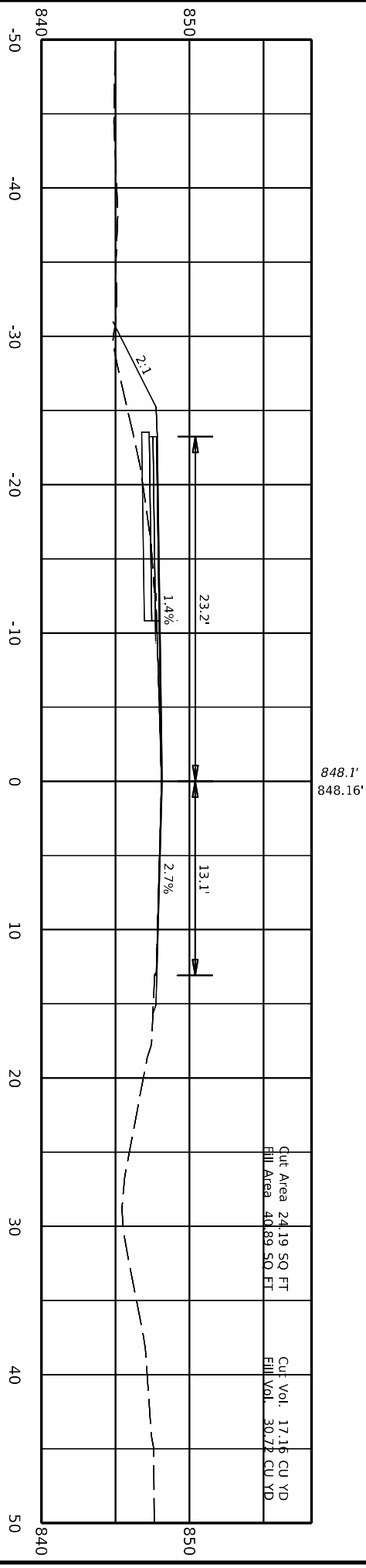
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STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO. 04.9021.00
SHEET NO. X040
COUNTY OF MARION

107+80.00



Cut Area 24.19 SQ FT
Fill Area 40.89 SQ FT
Cut Vol. 17.16 CU YD
Fill Vol. 30.77 CU YD

MARION COUNTY
04 078 0068 013-014

File Name: C:\P\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

User: debbye.hassell

Date Plotted: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

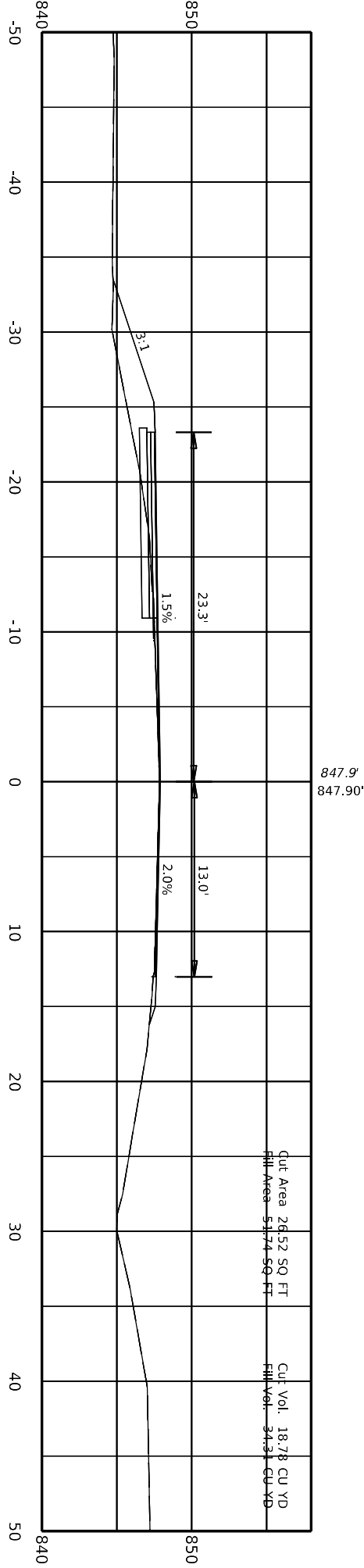


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X041	

108+00.00



MARION COUNTY
04 078 0068 013-014

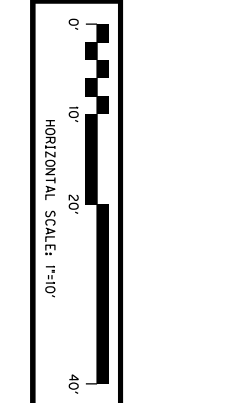
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

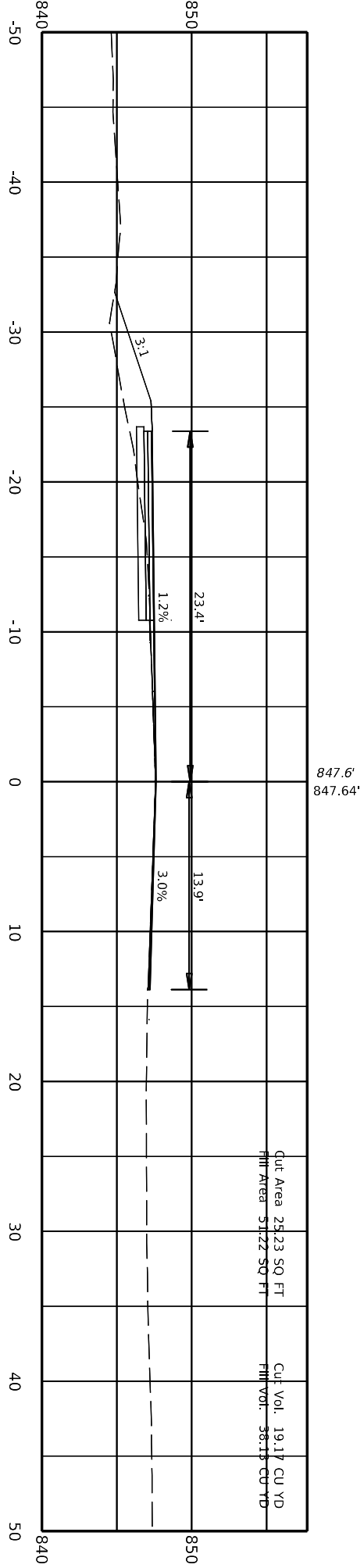
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STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM

108+20.00



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X042	



MARION COUNTY
04 078 0068 013-014



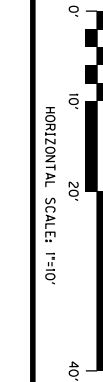
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
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USER: debbye.hassell

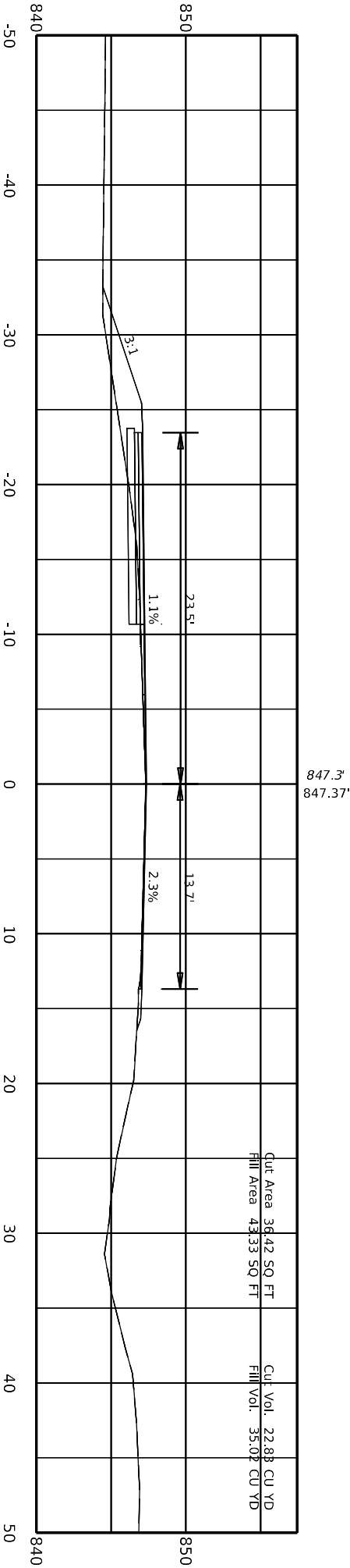
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HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X043	

108+40.00



Cut Area 36.42 SQ FT
Fill Area 43.33 SQ FT

Cut Vol. 22.88 CU YD
Fill Vol. 35.03 CU YD

MARION COUNTY
04 078 0068 013-014

CommonRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN
USER: debbye\hassell



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



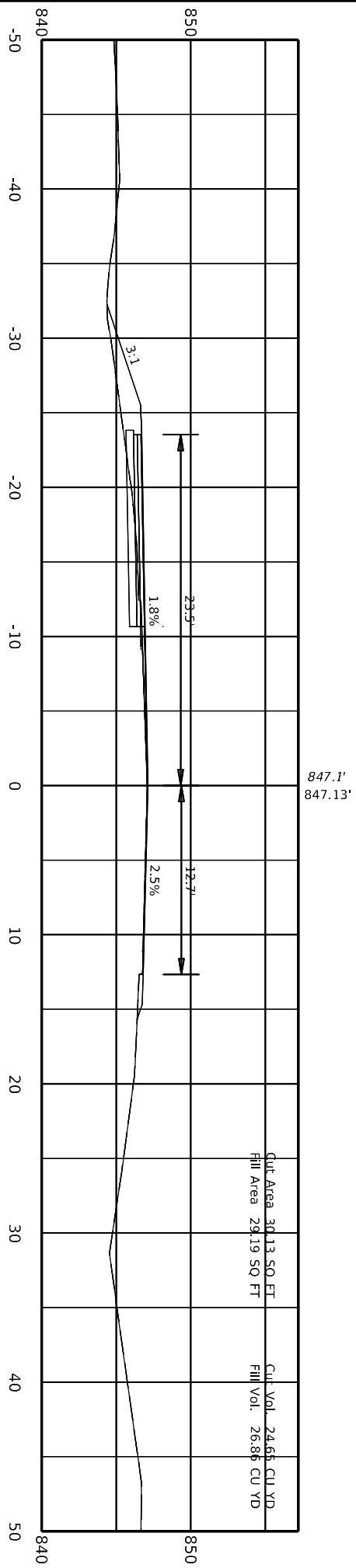
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STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X044	

108+60.00



Cut Area 30.13 SQ FT
Fill Area 29.19 SQ FT
Cut Vol. 24.66 CU YD
Fill Vol. 26.86 CU YD

Marion County
04 078 0068 013-014



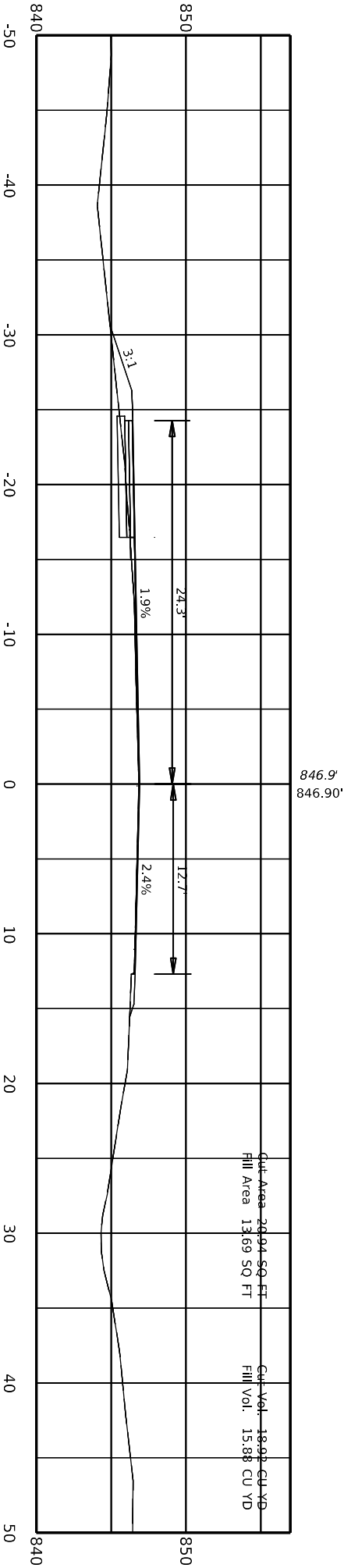
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

Software: Designer v10.14.4.4
File Name: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN
User: debbye\hassell
Date Plotted: 9/7/2005 7:08:02 PM

108+80.00



Cut Area 20.94 SQ FT
Fill Area 13.69 SQ FT

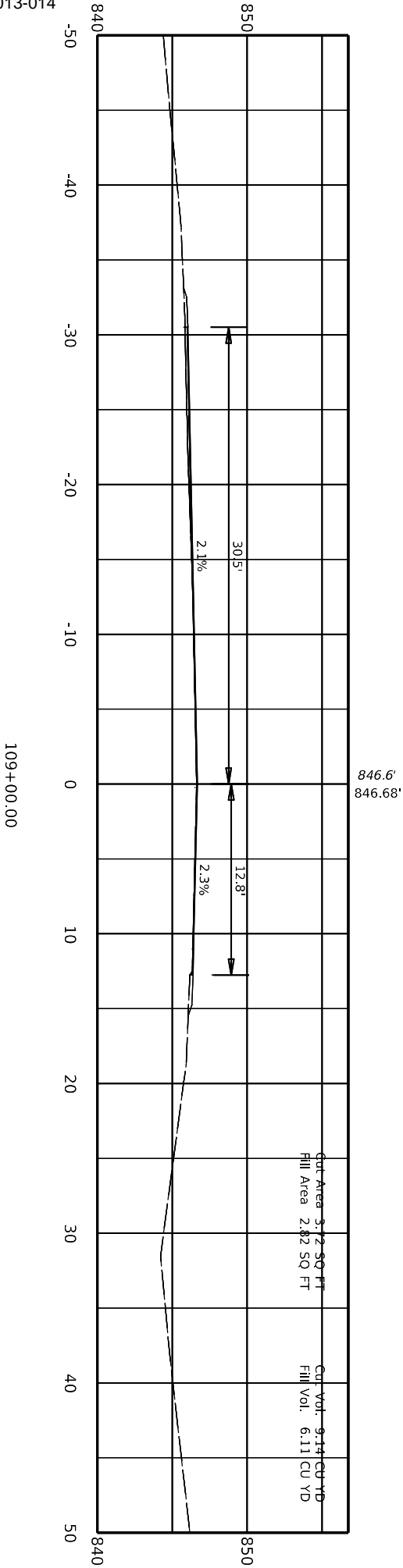
Cut Vol. 18.98 CU YD
Fill Vol. 15.88 CU YD



HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X045	

STA 109+07 TO STA 109+49
OVERLAY ONLY





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:
STA TO

0'
10'
20'
40'
HORIZONTAL SCALE: 1"=10'

ITEM NO.
04 9021.00
SHEET NO.
X046

COUNTY OF
MARION

MARION COUNTY
04 078 0068 013-014

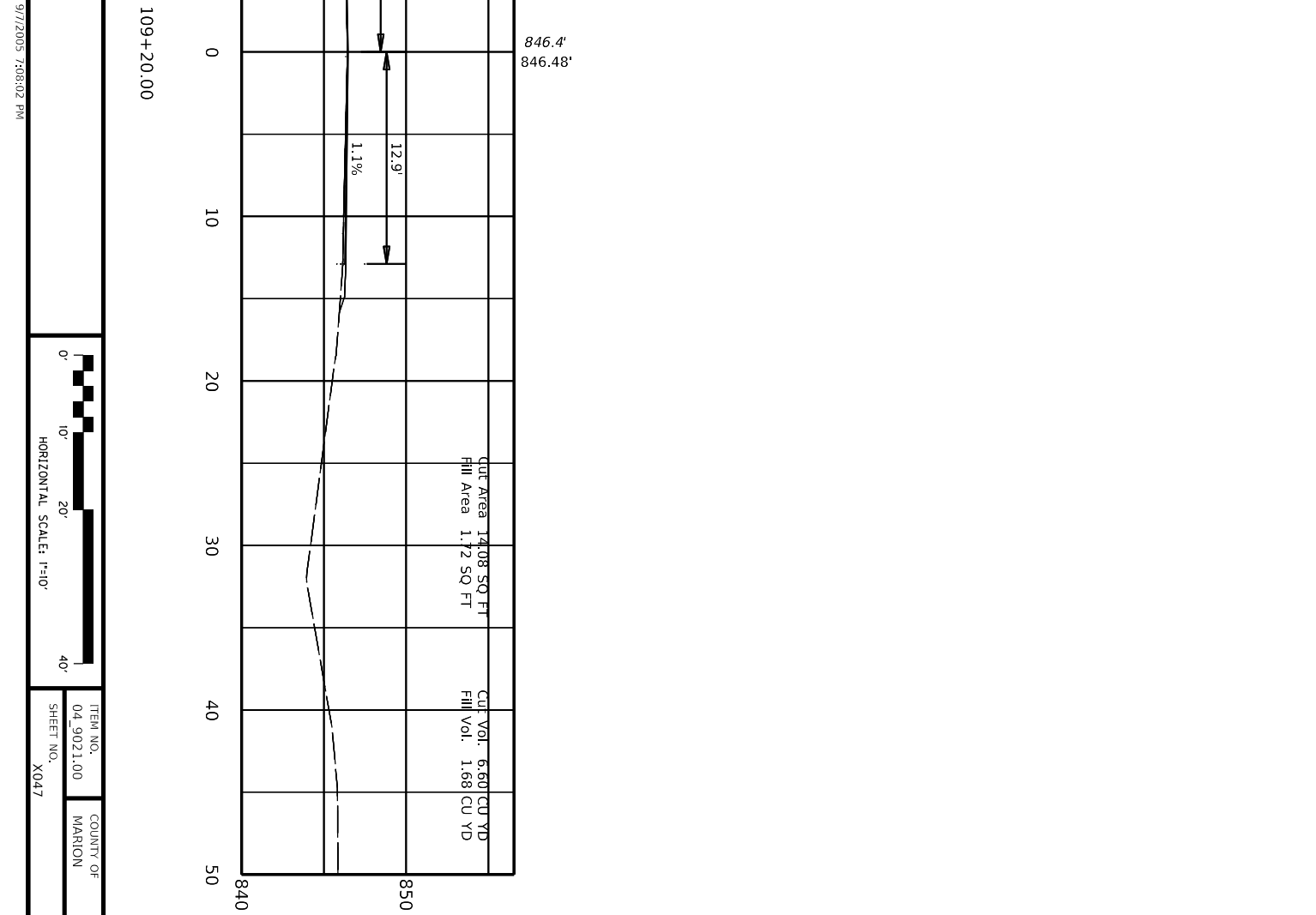
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

USERR: debbye.hassell


DATE PLOTTED: 9/7/2005 7:08:02 PM

0' 10' 20' 40'
HORIZONTAL SCALE: 1"=10'


ITEM NO. 04.9021.00
SHEET NO. X047
COUNTY OF MARION



MARION COUNTY
04 078 0068 013-014



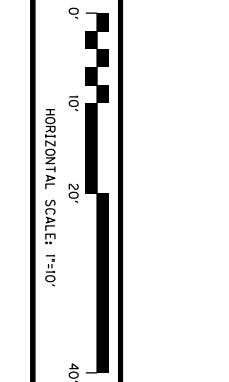
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DESIGNER
DEBBY E. HASSELL
PE
18000

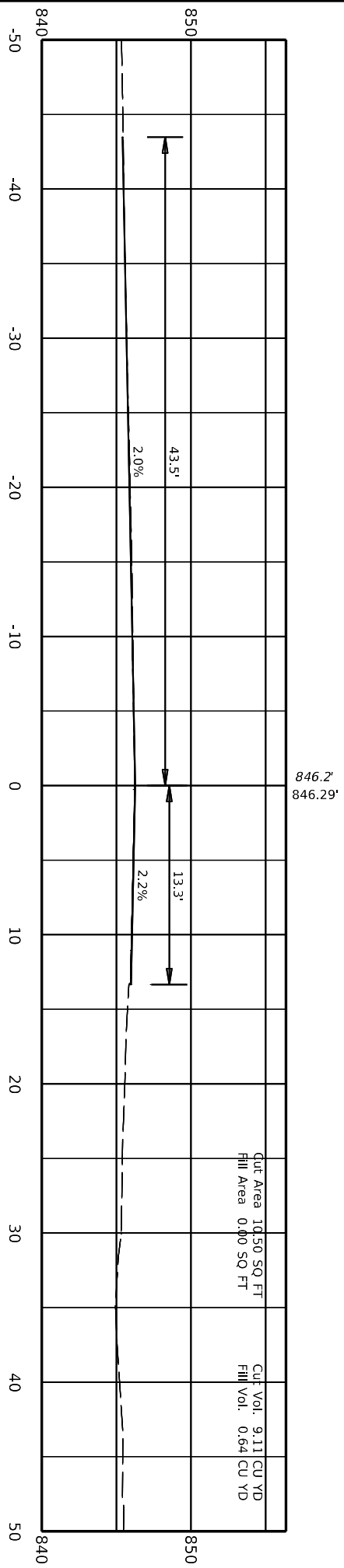
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DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X048	

109+40.00



MARION COUNTY
4 078 0068 013-014

PenRoads Designer v10.14.4.4
FILE NAME: C:\PW\WORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN

USER: debbye/hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

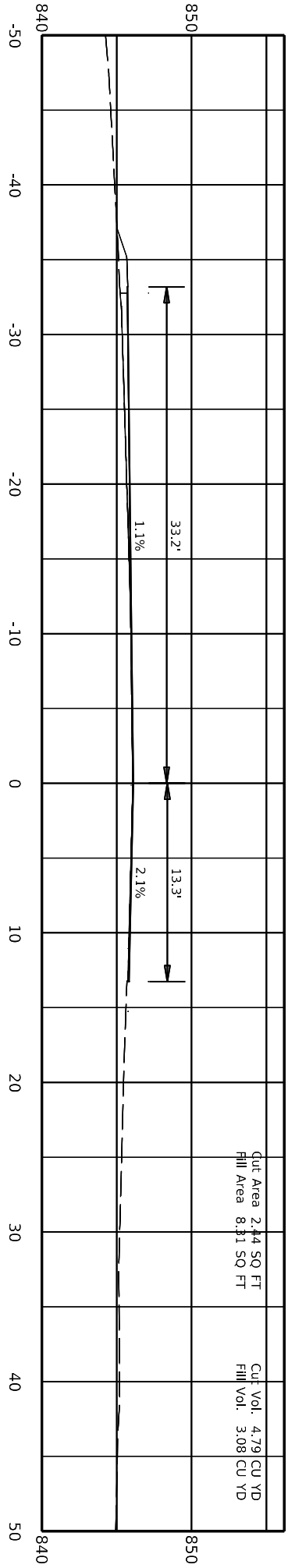


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X049	

109+60.00



MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

DATE PLOTTED: 9/7/2005 7:08:02 PM

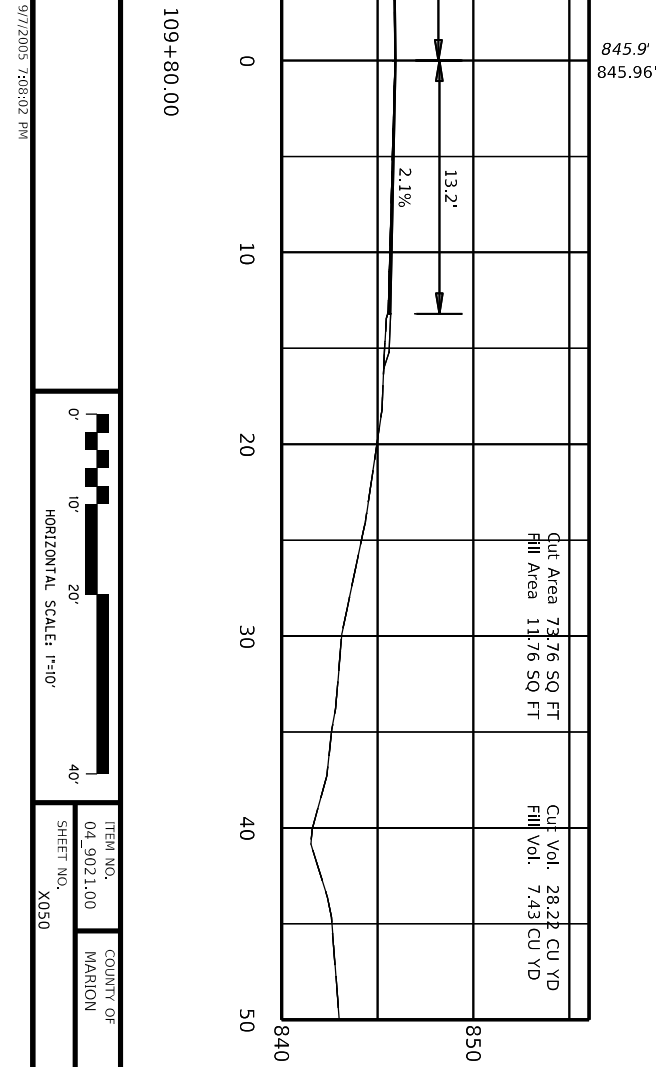


ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X050	

USER: debbyehassell

PenRoads Designer v10.14.4.4

FILE NAME: C:\PWORK\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN



Cut Area 73.76 SQ FT
Fill Area 11.76 SQ FT

Cut Vol. 28.28 CU YD
Fill Vol. 7.43 CU YD

MARION COUNTY
04 078 0068 013-014

04 078 0068 013-014
C:\pwwork\debbye-hassel\190518\US_68_SECTIONS.DGN
FILE NAME: C:\pwwork\debbye-hassel\190518\US_68_SECTIONS.DGN

USERR: debbye-hassel

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

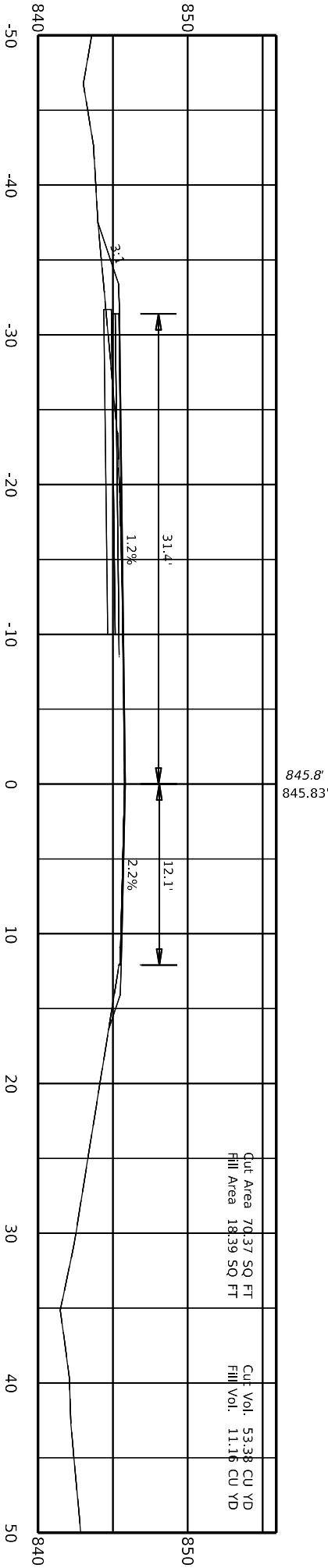


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X051	

110+00.00



Cut Area 70.37 SQ FT
Fill Area 18.39 SQ FT

Cut Vol. 53.38 CU YD
Fill Vol. 11.16 CU YD



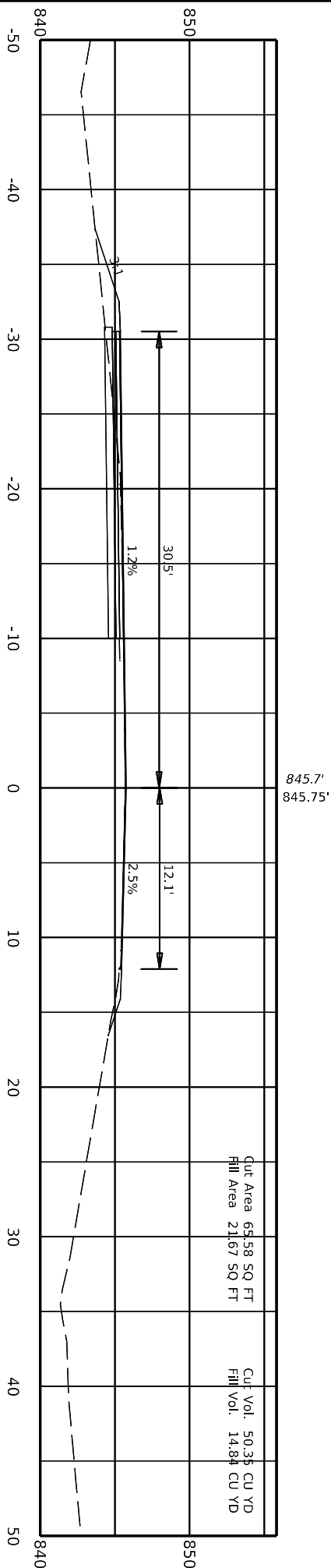
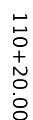
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

USER: debbye.hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X052	

ITEM NO.	COUNTY OF
04_9021.00	MARION

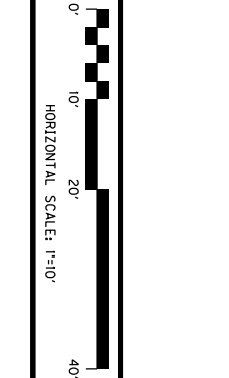
MARION COUNTY
04 078 0068 013-014

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

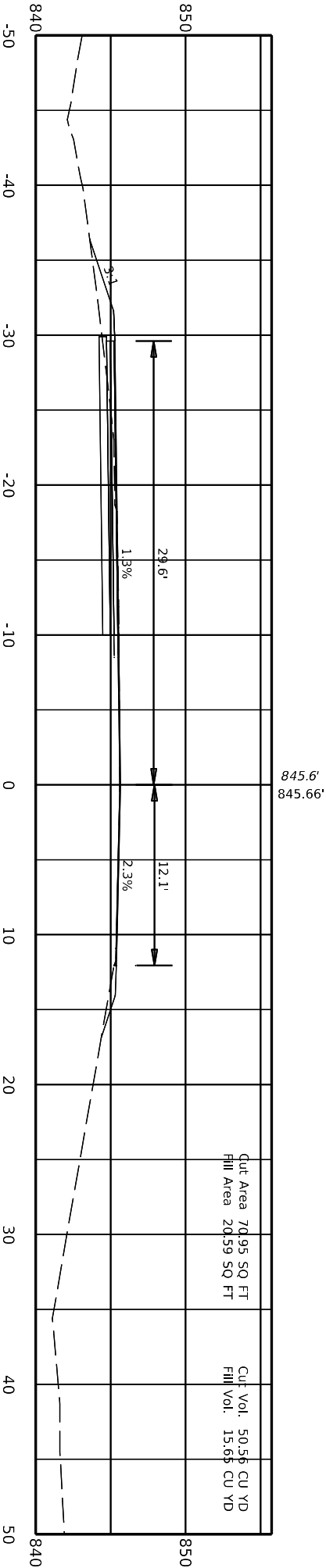
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

DRAWING TITLE:
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DATE PLOTTED: 9/7/2005 7:08:02 PM



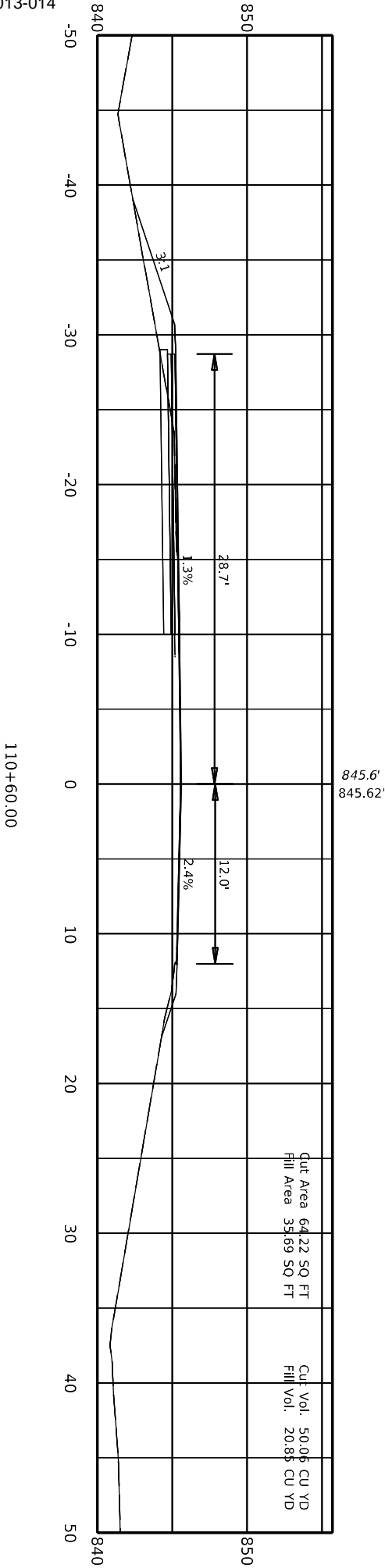
ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X053	



Cut Area 70.95 SQ FT
Fill Area 20.59 SQ FT

Cut Vol. 50.56 CU YD
Fill Vol. 15.65 CU YD

STA 110+76
END FULL WIDTH
BEGIN TAPER



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO



ITEM NO.
04.9021.00
SHEET NO.
X054
COUNTY OF
MARION

MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

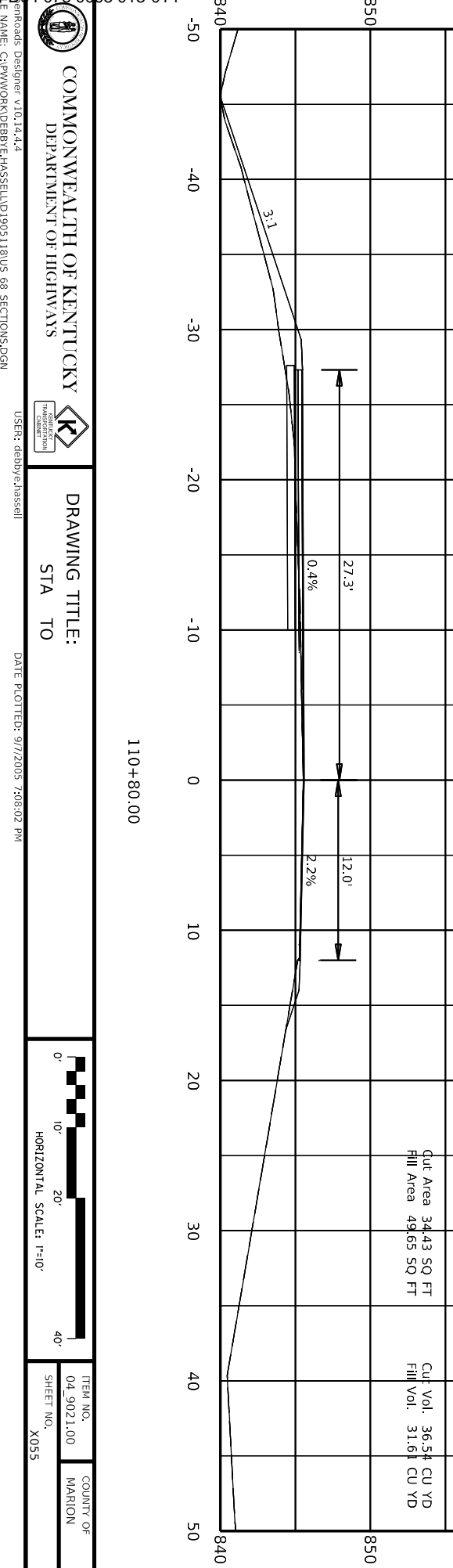
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ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X055	

USER: debbyehassell

FILE NAME: C:\PWORK\KDEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN



845.5'
845.58'

Cut Area 34.43 SQ FT
Fill Area 49.65 SQ FT

Cut Vol. 36.54 CU YD
Fill Vol. 31.61 CU YD

MARION COUNTY
4 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

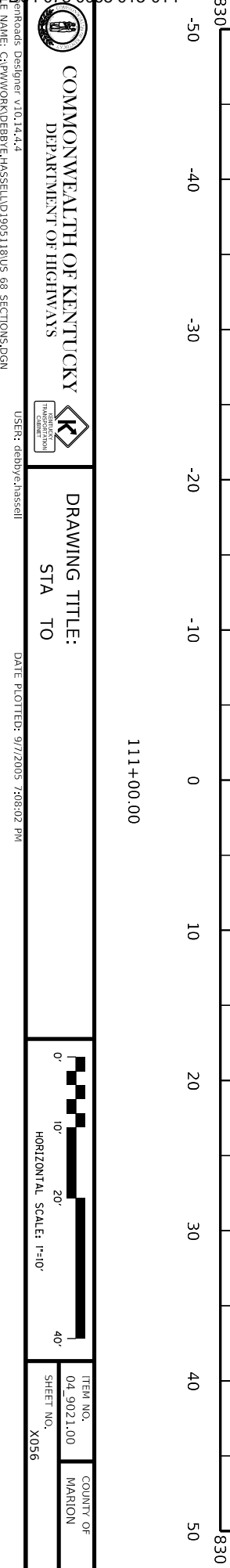
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ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X056	

USER: debbye.hassell

FILE NAME: C:\PWORK\DEBBYE\HASSELL\01905118US_68_SECTIONS.DGN



845.5'
845.56'

Cut Area 30.45 SQ FT
Fill Area 73.43 SQ FT

Cut Vol. 24.08 CU YD
Fill Vol. 45.58 CU YD

MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



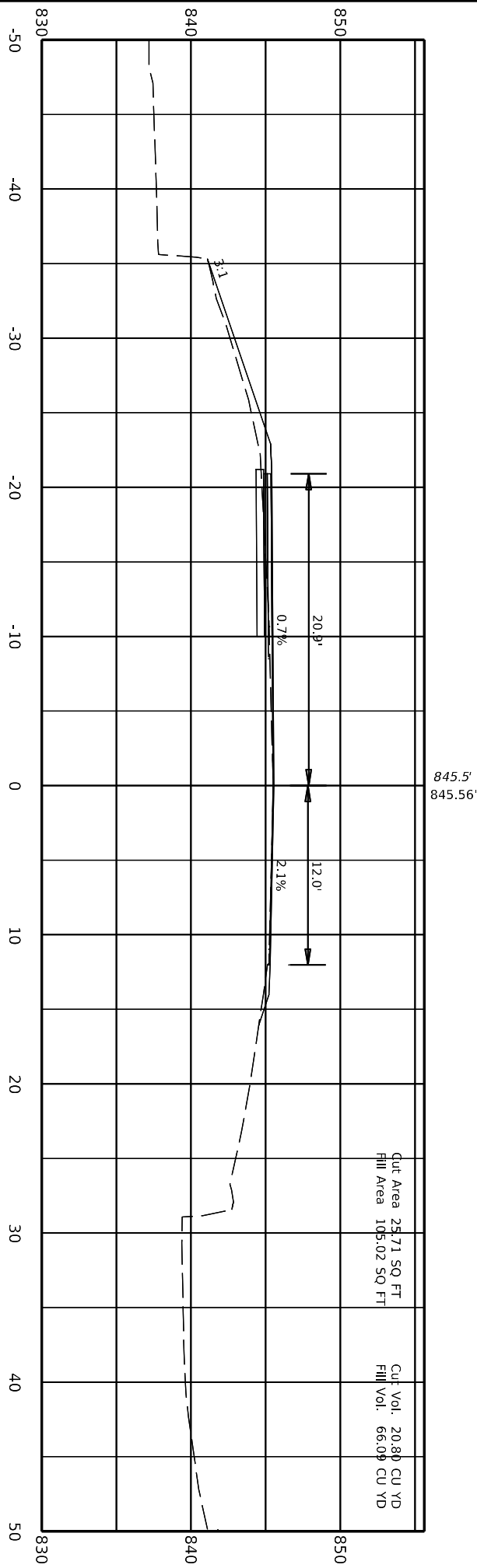
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STA TO

USERS: debbye.hassell
DATE PLOTTED: 9/7/2005 7:08:02 PM



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X057	

111+20.00



Cut Area 25.71 SQ FT
Fill Area 105.02 SQ FT

Cut Vol. 20.88 CU YD
Fill Vol. 66.08 CU YD

MARION COUNTY
4 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

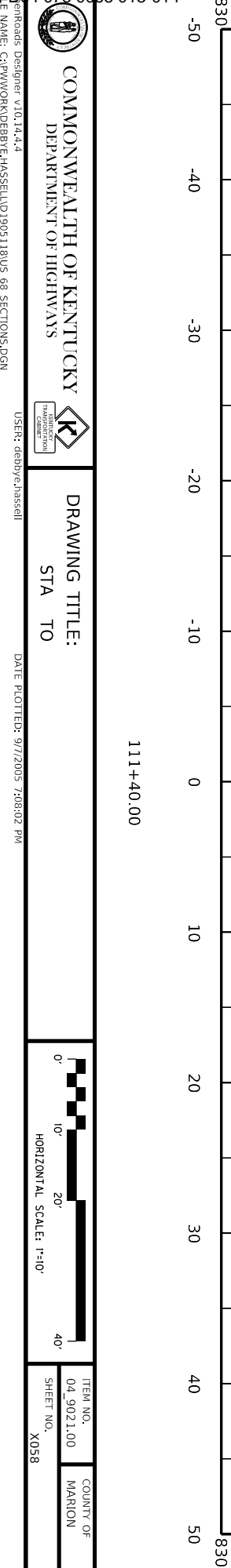
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ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X058	

USER: debbye.hassell

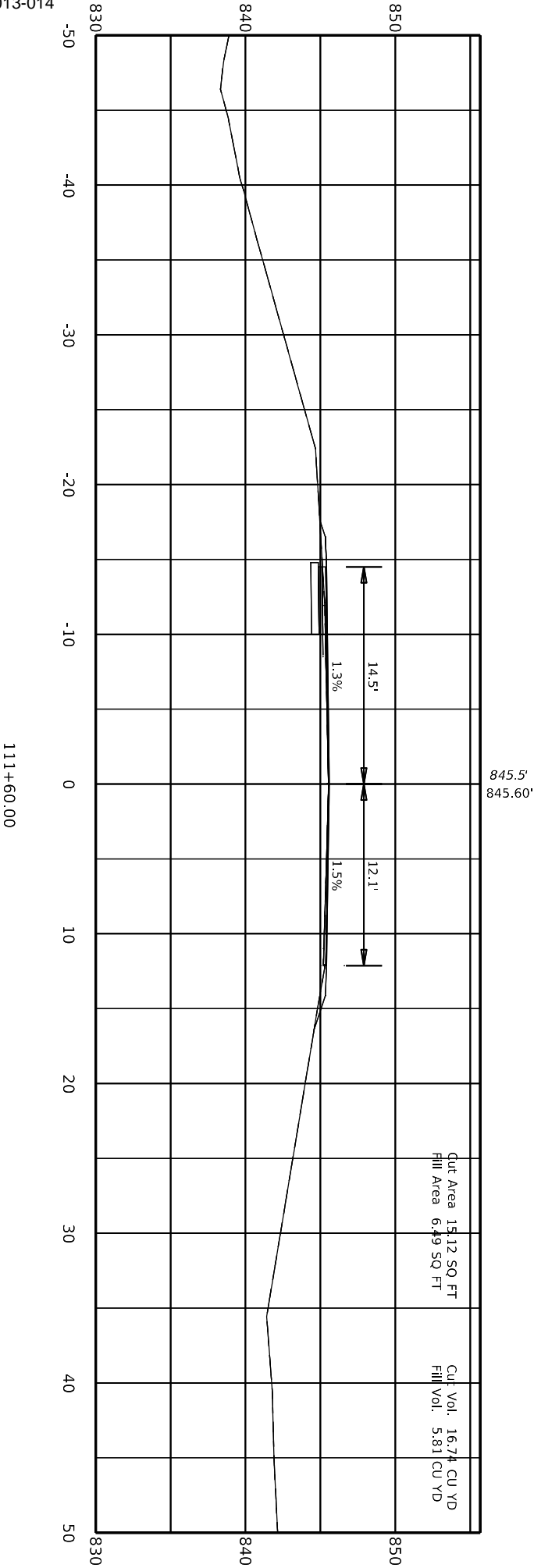
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Cut Area 30.06 SQ FT
Fill Area 9.19 SQ FT

Cut Vol. 20.66 CU YD
Fill Vol. 42.30 CU YD

STA 111+76
END TAPER



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO



ITEM NO.
04_9021.00
SHEET NO.
X059

COUNTY OF
MARION

MARION COUNTY
4 078 0068 013-014

PenRoads Designer v10.14.4.4
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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

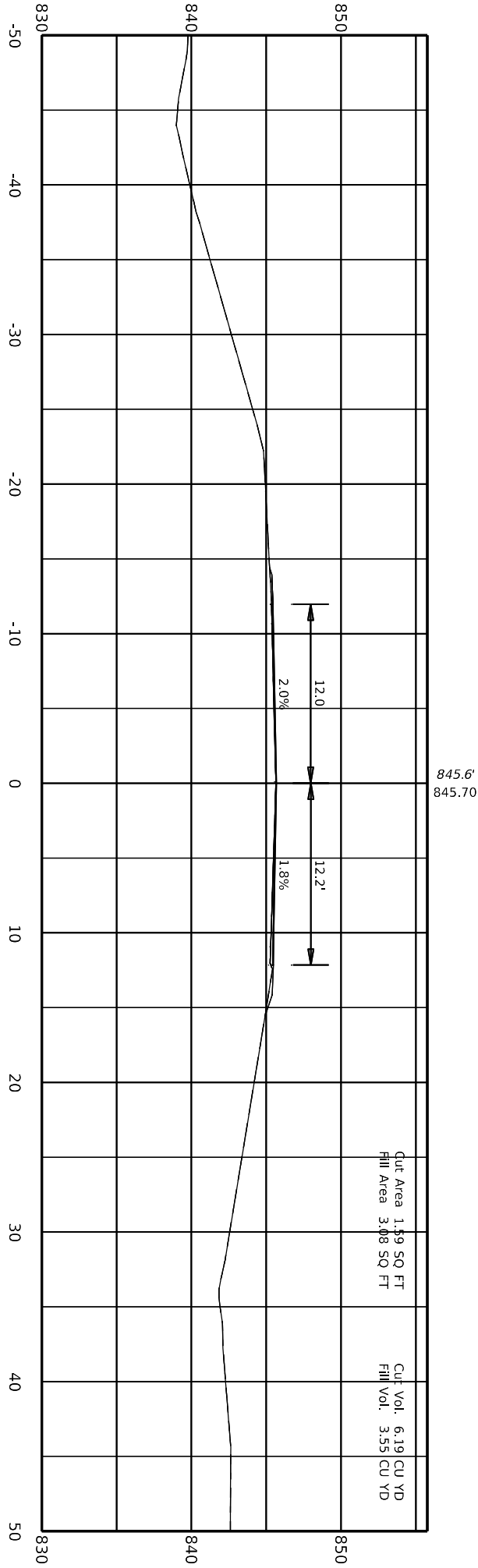


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STA TO



ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X060	

111+80.00



Cut Area 1.59 SQ. FT
Fill Area 3.08 SQ. FT

Cut Vol. 6.19 CU YD
Fill Vol. 3.55 CU YD

MARION COUNTY
4 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

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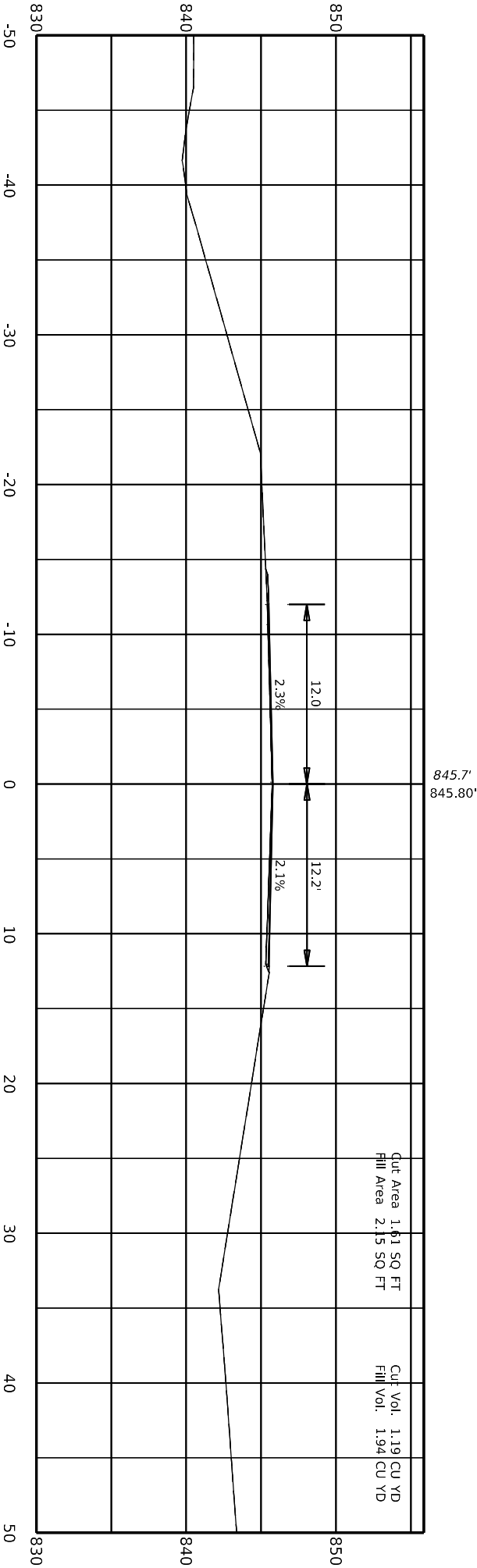
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HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X061	

112+00.00



Cut Area 1.61 SQ FT
Fill Area 2.15 SQ FT

Cut Vol. 1.19 CU YD
Fill Vol. 1.94 CU YD

MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

USER: debbyehassell

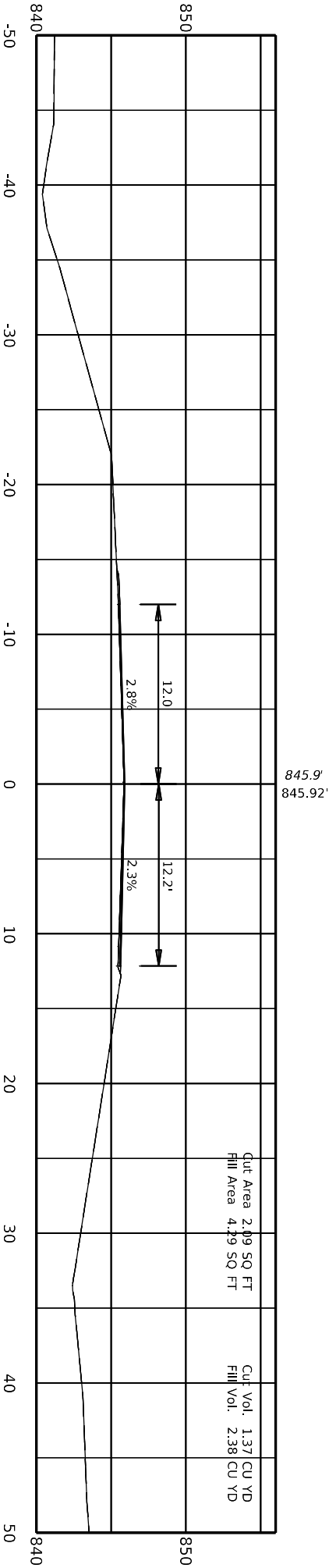
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HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X062	

112+20.00

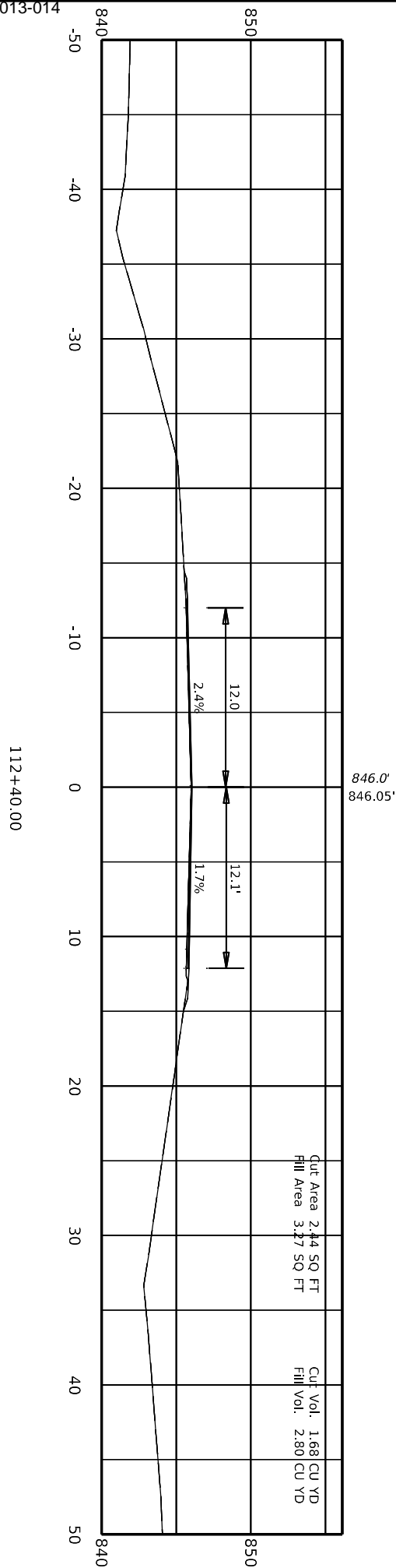




DRAWING TITLE:
STA TO

HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X063	



MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

USER: debbyehassell

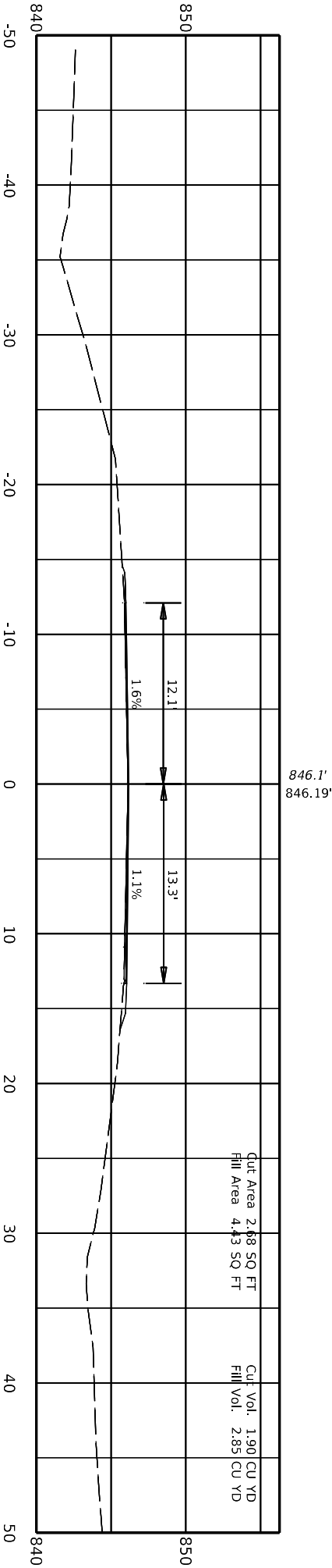
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HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04_9021.00	MARION
SHEET NO.	
X064	

112+60.00



Cut Area 2.68 SQ FT
Fill Area 4.43 SQ FT

Cut Vol. 1.90 CU YD
Fill Vol. 2.85 CU YD

MARION COUNTY
04 078 0068 013-014



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE:
STA TO

USER: debbyehassell

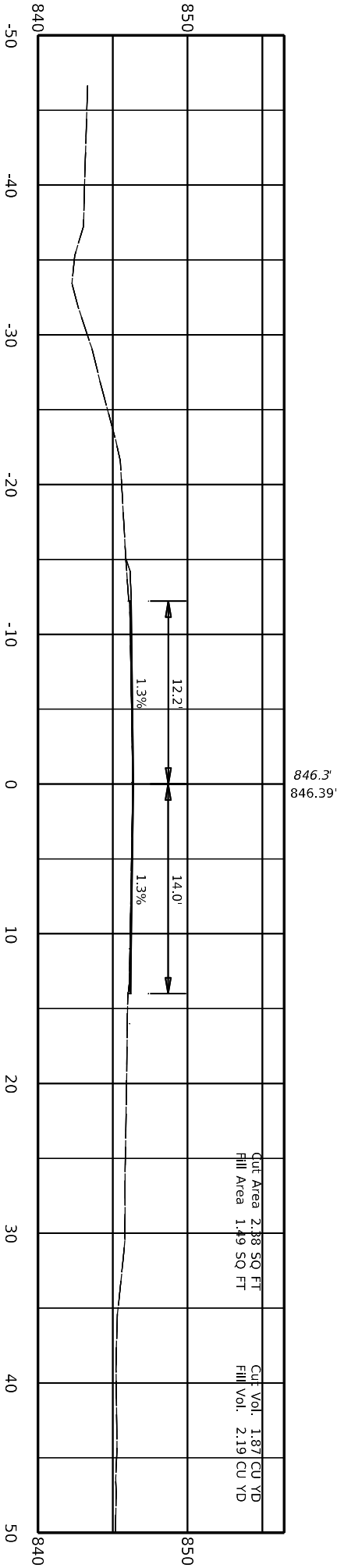
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HORIZONTAL SCALE: 1"=10'

ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X065	

112+80.00

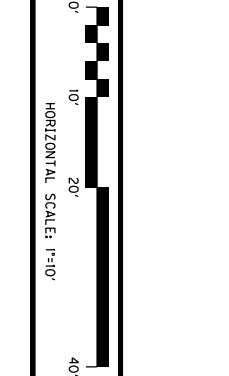


MARION COUNTY
04 078 0068 013-014

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

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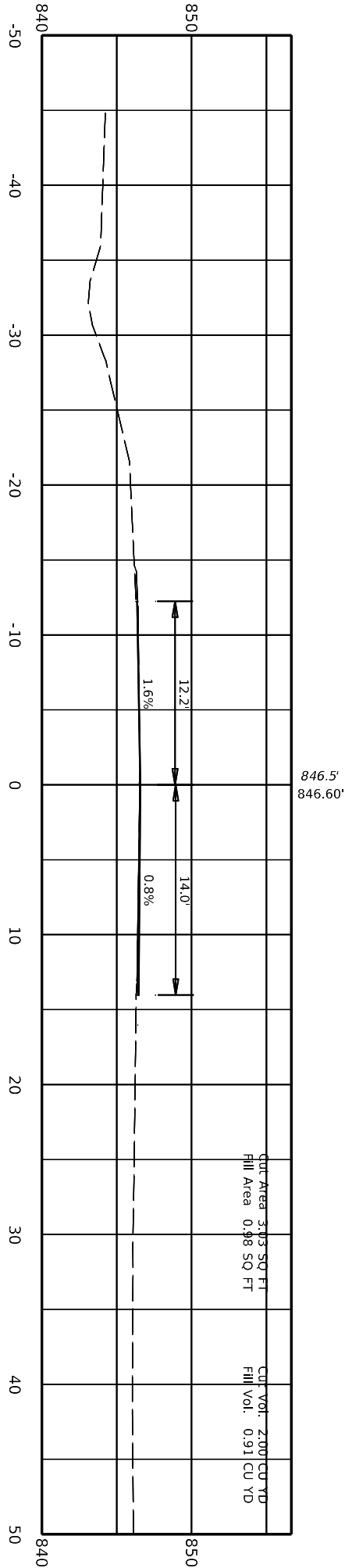


ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X066	



DRAWING TITLE:
STA TO

113+00.00



CUT Area 3.03 SQ FT
FILL Area 0.98 SQ FT

CUT Vol. 2.00 CU YD
FILL Vol. 0.91 CU YD

MARION COUNTY
04 078 0068 013-014

04 078 0068 013-014
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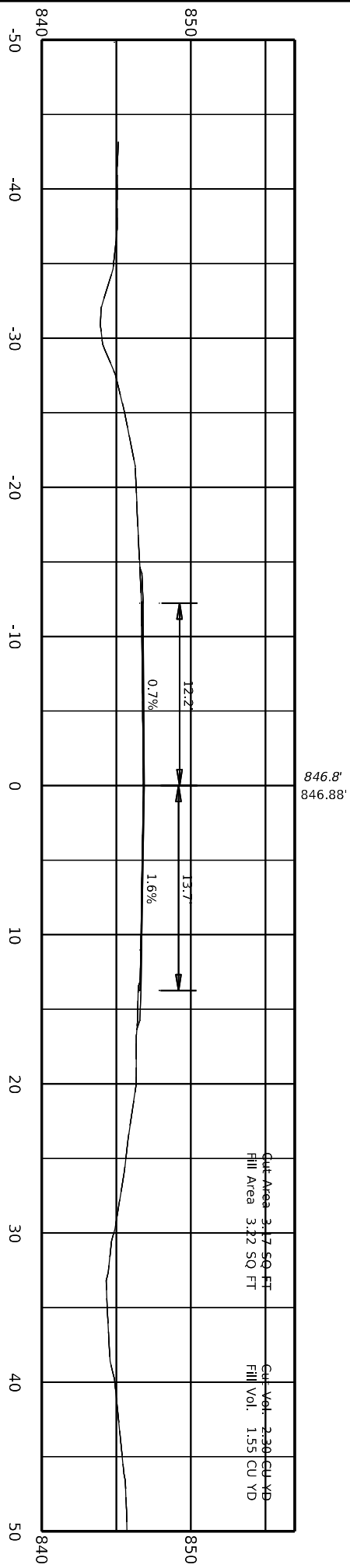


DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X067	

113+20.00



Cut Area 3.17 SQ FT
Fill Area 3.22 SQ FT
Cut Vol. 2.30 CU YD
Fill Vol. 1.55 CU YD

MARION COUNTY
04 078 0068 013-014

04 078 0068 013-014
C:\pwwork\DEBBYE\HASSELL\01905118\US_68_SECTIONS.DGN
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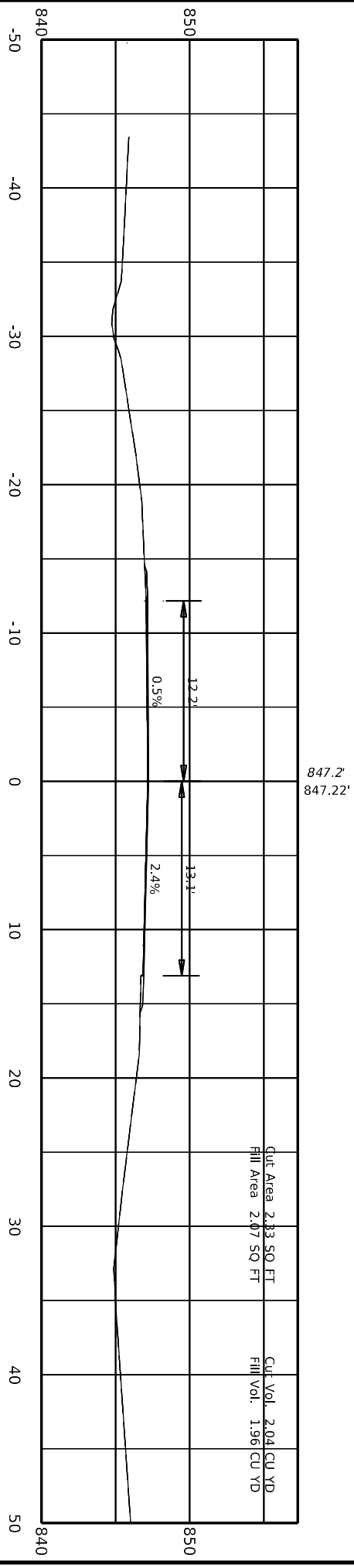


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
DRAWING TITLE:
STA TO



ITEM NO.	COUNTY OF
04 9021.00	MARION
SHEET NO.	
X068	

113+40.00



Cut Area 2.33 SQ FT
Fill Area 2.07 SQ FT
Cut Vol. 2.04 CU YD
Fill Vol. 1.96 CU YD

MARION COUNTY
04 078 0068 013-014

CommonRoads Designer v10.14.4.4
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USER: debbye-hassell

DATE PLOTTED: 9/7/2005 7:08:02 PM



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



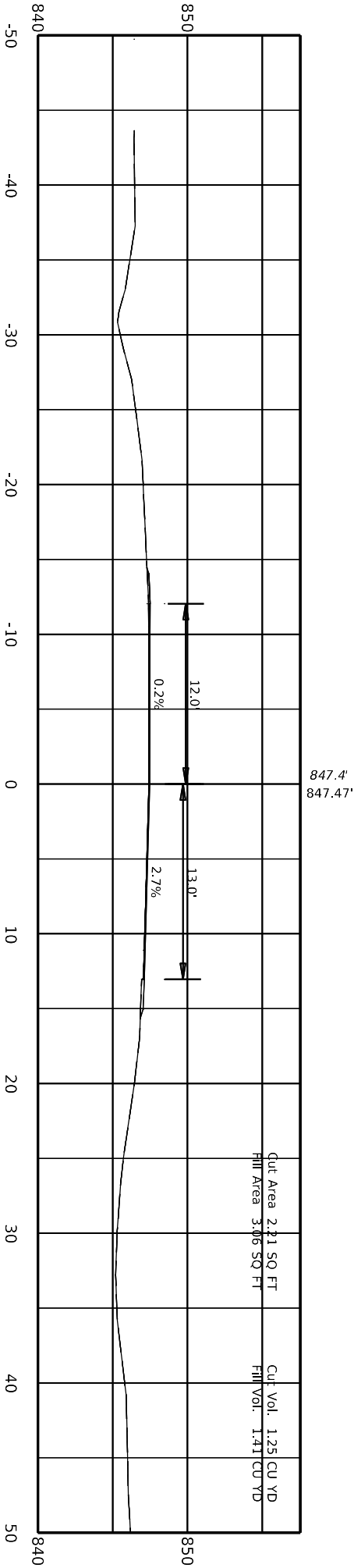
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STA TO



ITEM NO.
04 9021.00
SHEET NO.
X069

COUNTY OF
MARION

113+54.85



PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2019* and *Standard Drawings, Edition of 2020*.

SUPPLEMENTAL SPECIFICATIONS

The contractor shall use the Supplemental Specifications that are effective at the time of letting.
The Supplemental Specifications can be found at the following link:

<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
 - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

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- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/⇒⇒⇒/	/MIN/SPEED/**MPH/
/KEEP/LEFT/⇐⇐⇐/	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/**/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/**0 FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.

Add other messages during the project when required by the Engineer.

2.3 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

2020 STANDARD DRAWINGS THAT APPLY

MISCELLANEOUS STANDARDS

MISCELLANEOUS STANDARDS RGX-001-06

~ *PAVEMENT* ~

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT RPM-110-07

TRAFFIC

~ *PERMANENT* ~

MARKERS

TYPICAL MARKINGS FOR TURN LANES PAGE 1 TPM-206

~ *TEMPORARY* ~

TRAFFIC CONTROL

LANE CLOSURE TWO-LANE HIGHWAY TTC-100-05
SHOULDER CLOSURE TTC-135-03

STRIPING OPERATIONS

MOBILE OPERATION FOR PAINT STRIPING CASE I TTS-100-02

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

**TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS**

**LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS**

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

II. NONDISCRIMINATION OF EMPLOYEES

**AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972**

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:
<https://www.eProcurement.ky.gov>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25 PER HOUR

BEGINNING JULY 24, 2009

OVERTIME PAY

At least $1\frac{1}{2}$ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

No more than

- **3** hours on a school day or **18** hours in a school week;
- **8** hours on a non-school day or **40** hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

TIP CREDIT

Employers of "tipped employees" must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

ENFORCEMENT

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.

For additional information:



1-866-4-USWAGE

(1-866-487-9243)

TTY: 1-877-889-5627



WWW.WAGEHOUR.DOL.GOV

U.S. Department of Labor | Wage and Hour Division

PART IV

INSURANCE

Refer to
Kentucky Standard Specifications for Road and Bridge Construction,
current edition

PART V

BID ITEMS

Report Date 9/22/21

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	382.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	26.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	3.20	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	77.00	TON		\$	
0050	00212		CL2 ASPH BASE 1.00D PG64-22	355.00	TON		\$	
0060	24888EC		CL2 ASPH SURF NO.4B PG64-22	188.00	TON		\$	
0070	24964EC		FINE MILLING	5,467.00	SQYD		\$	
0080	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING	3.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	02159		TEMP DITCH	678.00	LF		\$	
0100	02160		CLEAN TEMP DITCH	339.00	LF		\$	
0110	02200		ROADWAY EXCAVATION	1,173.00	CUYD		\$	
0120	02545		CLEARING AND GRUBBING (APPROX 0.36 ACRES)	1.00	LS		\$	
0130	02585		EDGE KEY	102.00	LF		\$	
0140	02650		MAINTAIN & CONTROL TRAFFIC (MARION US 68)	1.00	LS		\$	
0150	02676		MOBILIZATION FOR MILL & TEXT (MARION US 68)	1.00	LS		\$	
0160	02701		TEMP SILT FENCE	678.00	LF		\$	
0170	02704		SILT TRAP TYPE B	1.00	EACH		\$	
0180	02705		SILT TRAP TYPE C	1.00	EACH		\$	
0190	02707		CLEAN SILT TRAP TYPE B	1.00	EACH		\$	
0200	02708		CLEAN SILT TRAP TYPE C	1.00	EACH		\$	
0210	02726		STAKING (MARION US 68)	1.00	LS		\$	
0220	05950		EROSION CONTROL BLANKET	500.00	SQYD		\$	
0230	05952		TEMP MULCH	1,169.00	SQYD		\$	
0240	05953		TEMP SEEDING AND PROTECTION	877.00	SQYD		\$	
0250	05963		INITIAL FERTILIZER	.10	TON		\$	
0260	05964		MAINTENANCE FERTILIZER	.10	TON		\$	
0270	05985		SEEDING AND PROTECTION	1,297.00	SQYD		\$	
0280	05992		AGRICULTURAL LIMESTONE	1.10	TON		\$	
0290	06511		PAVE STRIPING-TEMP PAINT-6 IN	4,067.00	LF		\$	
0300	06542		PAVE STRIPING-THERMO-6 IN W	2,877.00	LF		\$	
0310	06543		PAVE STRIPING-THERMO-6 IN Y	4,500.00	LF		\$	
0320	06568		PAVE MARKING-THERMO STOP BAR-24IN	29.00	LF		\$	
0330	06574		PAVE MARKING-THERMO CURV ARROW	4.00	EACH		\$	
0340	21289ED		LONGITUDINAL EDGE KEY	2,711.00	LF		\$	
0350	22664EN		WATER BLASTING EXISTING STRIPE	5,423.00	LF		\$	

Section: 0003 - SIGNING

Report Date 9/22/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0360	02562		TEMPORARY SIGNS	300.00	SQFT		\$	
0370	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	

Section: 0004 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0380	02569		DEMOBILIZATION	1.00	LS		\$	