



**CALL NO. 200**

**CONTRACT ID. 211325**

**METCALFE - BARREN COUNTIES**

**FED/STATE PROJECT NUMBER 121GR21D025-NHPP**

**DESCRIPTION LOUIE B NUNN CUMBERLAND PKY (PW9008) IN BARREN & METCALFE CO**

**WORK TYPE ASPHALT PAVEMENT & ROADWAY REHAB**

**PRIMARY COMPLETION DATE 8/30/2022**

**LETTING DATE: July 23,2021**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 am EASTERN DAYLIGHT TIME July 23,2021. Bids will be publicly announced at 10:00 am EASTERN DAYLIGHT TIME.

**NO PLANS ASSOCIATED WITH THIS PROJECT.**

**DBE CERTIFICATION REQUIRED - 20%**

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

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# **PART I**

## **SCOPE OF WORK**

ADMINISTRATIVE DISTRICT - 03

CONTRACT ID - 211325  
121GR21D025-NHPP  
COUNTY - BARREN  
PCN - DE00590082125  
NHPP 9008 (003)

LOUIE B. NUNN CUMBERLAND PARKWAY (PK 9008) BEGINNING AT MP 20.1 EXTENDING EAST TO THE  
BARREN-METCALFE COUNTY LINE MP 22.357, A DISTANCE OF 02.26 MILES.ASPHALT PAVEMENT & ROADWAY  
REHAB SYP NO. 03-20004.00.  
GEOGRAPHIC COORDINATES LATITUDE 35:59:44.00 LONGITUDE 85:46:12.00

COUNTY - METCALFE  
PCN - DE08590082125  
NHPP 9008 (003)

LOUIE B. NUNN CUMBERLAND PARKWAY (PW 9008) BEGINNING AT THE BARREN-METCALFE COUNTY LINE MP  
22.357 EXTENDING EAST TO MP 36.159, A DISTANCE OF 013.80 MILES.ASPHALT PAVEMENT & ROADWAY  
REHAB SYP NO. 03-20013.00.  
GEOGRAPHIC COORDINATES LATITUDE 36:59:54.00 LONGITUDE 85:37:31.00

COMPLETION DATE(S):  
COMPLETED BY 08/30/2022                      APPLIES TO ENTIRE CONTRACT



## **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](http://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](mailto: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](http://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

## **FEDERAL CONTRACT NOTES**

The Kentucky Department of Highways, in accordance with the Regulations of the United States Department of Transportation 23 CFR 635.112 (h), hereby notifies all bidders that failure by a bidder to comply with all applicable sections of the current Kentucky Standard Specifications, including, but not limited to the following, may result in a bid not being considered responsive and thus not eligible to be considered for award:

- |                                |  |
|--------------------------------|--|
| 102.02 Current Rating          | 102.08 Preparation and Delivery of Proposals |
| 102.13 Irregular Bid Proposals | 102.14 Disqualification of Bidders           |
| 102.09 Proposal Guaranty       |  |

## **CIVIL RIGHTS ACT OF 1964**

The Kentucky Department of Highways, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Federal Department of Transportation (49 C.F.R., Part 21), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the ground of race, color, or national origin.

## **NOTICE TO ALL BIDDERS**

To report bid rigging activities call: 1-800-424-9071.

The U.S. Department of Transportation (DOT) operates the above toll-free “hotline” Monday through Friday, 8:00 a.m. to 5:00 p.m. eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the “hotline” to report such activities.

The “hotline” is part of the DOT’s continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

## **SECOND TIER SUBCONTRACTS**

Second tier subcontracts are acceptable per Section 108.01 of the Standard Specifications for Road and Bridge Construction. There are special rules to DBE subcontractors satisfying DBE goals on federal-aid projects. 1<sup>st</sup>-Tier DBE Subcontractors may only enter into a 2<sup>nd</sup>-Tier subcontract with another DBE contractor.

### **DISADVANTAGED BUSINESS ENTERPRISE PROGRAM**

It is the policy of the Kentucky Transportation Cabinet (“the Cabinet”) that Disadvantaged Business Enterprises (“DBE”) shall have the opportunity to participate in the performance of highway construction projects financed in whole or in part by Federal Funds in order to create a level playing field for all businesses who wish to contract with the Cabinet. To that end, the Cabinet will comply with the regulations found in 49 CFR Part 26, and the definitions and requirements contained therein shall be adopted as if set out verbatim herein.

The Cabinet, contractors, subcontractors, and sub-recipients shall not discriminate on the basis of race, color, national origin, or sex in the performance of work performed pursuant to Cabinet contracts. The contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federally assisted highway construction projects. The contractor will include this provision in all its subcontracts and supply agreements pertaining to contracts with the Cabinet.

Failure by the contractor to carry out these requirements is a material breach of its contract with the Cabinet, which may result in the termination of the contract or such other remedy as the Cabinet deems necessary.

### **DBE GOAL**

The Disadvantaged Business Enterprise (DBE) goal established for this contract, as listed on the front page of the proposal, is the percentage of the total value of the contract.

The contractor shall exercise all necessary and reasonable steps to ensure that Disadvantaged Business Enterprises participate in a least the percent of the contract as set forth above as goals for this contract.

### **OBLIGATION OF CONTRACTORS**

Each contractor prequalified to perform work on Cabinet projects shall designate and make known to the Cabinet a liaison officer who is assigned the responsibility of effectively administering and promoting an active program for utilization of DBEs.

If a formal goal has not been designated for the contract, all contractors are encouraged to consider DBEs for subcontract work as well as for the supply of material and services needed to perform this work.

Contractors are encouraged to use the services of banks owned and controlled by minorities and women.

### **CERTIFICATION OF CONTRACT GOAL**

Contractors shall include the following certification in bids for projects for which a DBE goal has been established. BIDS SUBMITTED WHICH DO NOT INCLUDE CERTIFICATION OF DBE PARTICIPATION WILL NOT BE ACCEPTED. These bids will not be considered for award by the Cabinet and they will be returned to the bidder.

“The bidder certifies that it has secured participation by Disadvantaged Business Enterprises (“DBE”) in the amount of \_\_\_\_\_ percent of the total value of this contract and that the DBE participation is in compliance with the requirements of 49 CFR 26 and the policies of the Kentucky Transportation Cabinet pertaining to the DBE Program.”

**The certification statement is located in the electronic bid file. All contractors must certify their DBE participation on that page. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted.**

### **DBE PARTICIPATION PLAN**

Lowest responsive bidders must submit the *DBE Plan/ Subcontractor Request*, form TC 14-35 DBE, within **5** days of the letting. This is necessary before the Awards Committee will review and make a recommendation. **The project will not be considered for award prior to submission and approval of the apparent low bidder’s DBE Plan/Subcontractor Request.**

The DBE Participation Plan shall include the following:

1. Name and address of DBE Subcontractor(s) and/or supplier(s) intended to be used in the proposed project;
2. Description of the work each is to perform including the work item, unit, quantity, unit price and total amount of the work to be performed by the individual DBE. The Proposal Line Number, Category Number, and the Project Line Number can be found in the “material listing” on the Construction Procurement website under the specific letting;
3. The dollar value of each proposed DBE subcontract and the percentage of total project contract value this represents. DBE participation may be counted as follows:
  - a. If DBE suppliers and manufactures assume actual and contractual responsibility, the dollar value of materials to be furnished will be counted toward the goal as follows:
    - The entire expenditure paid to a DBE manufacturer;
    - 60 percent of expenditures to DBE suppliers that are not manufacturers provided the supplier is a regular dealer in the product involved. A regular dealer must be engaged in, as its principal business and in its own name, the sale of products to the public, maintain an inventory and own and operate distribution equipment; and
    - The amount of fees or commissions charged by the DBE firms for a bona fide service, such as professional, technical, consultant, or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, supplies, delivery of materials and supplies or for furnishing bonds, or insurance, providing such fees or commissions are determined to be reasonable and customary.

- b) The dollar value of services provided by DBEs such as quality control testing, equipment repair and maintenance, engineering, staking, etc.;
- c) The dollar value of joint ventures. DBE credit for joint ventures will be limited to the dollar amount of the work actually performed by the DBE in the joint venture;
- 4. Written and signed documentation of the bidder's commitment to use a DBE contractor whose participation is being utilized to meet the DBE goal; and
- 5. Written and signed confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment.

#### **UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED**

Contractors must submit the signed subcontract between the contractor and the DBE contractor, along with the DBE's certificate of insurance. If the DBE is a supplier of materials for the project, a signed purchase order must be submitted to the Division of Construction Procurement.

Changes to DBE Participation Plans must be approved by the Cabinet. The Cabinet may consider extenuating circumstances including, but not limited to, changes in the nature or scope of the project, the inability or unwillingness of a DBE to perform the work in accordance with the bid, and/or other circumstances beyond the control of the prime contractor.

#### **CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS**

If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder must submit a Good Faith Effort Package to satisfy the Cabinet that sufficient good faith efforts were made to meet the contract goals prior to submission of the bid. Efforts to increase the goal after bid submission will not be considered in justifying the good faith effort, unless the contractor can show that the proposed DBE was solicited prior to the letting date. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted. One complete set (hard copy along with an electronic copy) of this information must be received in the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

Where the information submitted includes repetitious solicitation letters it will be acceptable to submit a sample representative letter along with a distribution list of the firms solicited. Documentation of DBE quotations shall be a part of the good faith effort submittal as necessary to demonstrate compliance with the factors listed below which the Cabinet considers in judging good faith efforts. This documentation may include written subcontractors' quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

The Good Faith Effort Package shall include, but may not be limited to information showing evidence of the following:

1. Whether the bidder attended any pre-bid meetings that were scheduled by the Cabinet to inform DBEs of subcontracting opportunities;
2. Whether the bidder provided solicitations through all reasonable and available means;
3. Whether the bidder provided written notice to all DBEs listed in the DBE directory at the time of the letting who are prequalified in the areas of work that the bidder will be subcontracting;
4. Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested. If a reasonable amount of DBEs within the targeted districts do not provide an intent to quote or no DBEs are prequalified in the subcontracted areas, the bidder must notify the Disadvantaged Enterprise Business Liaison Officer (DEBLO) in the Office of Civil Rights and Small Business Development to give notification of the bidder's inability to get DBE quotes;
5. Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise perform these work items with its own forces;
6. Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications, and requirements of the contract;
7. Whether the bidder negotiated in good faith with interested DBEs not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached;
8. Whether quotations were received from interested DBE firms but were rejected as unacceptable without sound reasons why the quotations were considered unacceptable. The fact that the DBE firm's quotation for the work is not the lowest quotation received will not in itself be considered as a sound reason for rejecting the quotation as unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a DBE quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy DBE goals;
9. Whether the bidder specifically negotiated with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be subcontracted includes potential DBE participation;
10. Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal; and
11. Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.



### **FAILURE TO MEET GOOD FAITH REQUIREMENT**

Where the apparent lowest responsive bidder fails to submit sufficient participation by DBE firms to meet the contract goal and upon a determination by the Good Faith Committee based upon the information submitted that the apparent lowest responsive bidder failed to make sufficient reasonable efforts to meet the contract goal, the bidder will be offered the opportunity to meet in person for administrative reconsideration. The bidder will be notified of the Committee's decision within 24 hours of its decision. The bidder will have 24 hours to request reconsideration of the Committee's decision. The reconsideration meeting will be held within two days of the receipt of a request by the bidder for reconsideration.

The request for reconsideration will be heard by the Office of the Secretary. The bidder will have the opportunity to present written documentation or argument concerning the issue of whether it met the goal or made an adequate good faith effort. The bidder will receive a written decision on the reconsideration explaining the basis for the finding that the bidder did or did not meet the goal or made adequate Good Faith efforts to do so.

The result of the reconsideration process is not administratively appealable to the Cabinet or to the United States Department of Transportation.

The Cabinet reserves the right to award the contract to the next lowest responsive bidder or to rebid the contract in the event that the contract is not awarded to the low bidder as the result of a failure to meet the good faith requirement.

### **SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT**

Failure by the prime contractor to fulfill the DBE requirements of a project under contract or to demonstrate good faith efforts to meet the goal constitutes a breach of contract. When this occurs, the Cabinet will hold the prime contractor accountable, as would be the case with all other contract provisions. Therefore, the contractor's failure to carry out the DBE contract requirements shall constitute a breach of contract and as such the Cabinet reserves the right to exercise all administrative remedies at its disposal including, but not limited to the following:

- Disallow credit toward the DBE goal;
- Withholding progress payments;
- Withholding payment to the prime in an amount equal to the unmet portion of the contract goal; and/or
- Termination of the contract.

### **PROMPT PAYMENT**

The prime contractor will be required to pay the DBE within seven (7) working days after he or she has received payment from the Kentucky Transportation Cabinet for work performed or materials furnished.

### **CONTRACTOR REPORTING**

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to complete and submit a **signed and notarized** Affidavit of Subcontractor Payment (TC 18-7) and copies of checks for any monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. These documents must be completed and signed within 7 days of being paid by the Cabinet.

Payment information that needs to be reported includes date the payment is sent to the DBE, check number, Contract ID, amount of payment and the check date. Before Final Payment is made on this contract, the Prime Contractor will certify that all payments were made to the DBE subcontractor and/or DBE suppliers.

#### **\*\*\*\*\* IMPORTANT \*\*\*\*\***

**Please mail the original, signed and completed TC (18-7) Affidavit of Subcontractor Payment form and all copies of checks for payments listed above to the following address:**

Office of Civil Rights and Small Business Development  
6<sup>th</sup> Floor West 200 Mero Street  
Frankfort, KY 40622

The prime contractor should notify the KYTC Office of Civil Rights and Small Business Development seven (7) days prior to DBE contractors commencing work on the project. The contact in this office is Mr. Melvin Bynes. Mr. Bynes' current contact information is email address – [melvin.bynes2@ky.gov](mailto:melvin.bynes2@ky.gov) and the telephone number is (502) 564-3601.

### **DEFAULT OR DECERTIFICATION OF THE DBE**

If the DBE subcontractor or supplier is decertified or defaults in the performance of its work, and the overall goal cannot be credited for the uncompleted work, the prime contractor may utilize a substitute DBE or elect to fulfill the DBE goal with another DBE on a different work item. If after exerting good faith effort in accordance with the Cabinet's Good Faith Effort policies and procedures, the prime contractor is unable to replace the DBE, then the unmet portion of the goal may be waived at the discretion of the Cabinet.

### **PROHIBITION ON TELECOMMUNICATIONS EQUIPMENT OR SERVICES**

In accordance with the FY 2019 National Defense Authorization Act (NDAA), 2 CFR 200.216, and 2 CFR 200.471, Federal agencies are prohibited, after August 13, 2020, from obligating or expending financial assistance to obtain certain telecommunications and video surveillance services and equipment from specific producers. As a result of these regulations, contractors and subcontractors are prohibited, on projects with federal funding participation, from providing telecommunication or video surveillance equipment, services, or systems produced by:

- Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities)
- Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities)

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC – CARGO PREFERENCE ACT (CPA).**

**(REV 12-17-15) (1-16)**

SECTION 7 is expanded by the following new Article:

**102.10 Cargo Preference Act – Use of United States-flag vessels.**

Pursuant to Title 46CFR Part 381, the Contractor agrees

- To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.
- To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph 1 of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.
- To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

### **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.

### **DGA BASE**

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

### **DGA BASE FOR SHOULDERS**

Unless otherwise noted, the Department estimates the rate of application for DGA Base for Shoulders to be 115 lbs/sy per inch of depth. The Department will not measure necessary grading and/or shaping of existing shoulders prior to placing of DGA Base, but shall be incidental to the Contract unit price per ton for DGA Base.

Accept payment at the Contract unit price per ton as full compensation for all labor, materials, equipment, and incidentals for grading and/or shaping of existing shoulders and furnishing, placing, and compacting the DGA Base.

### **INCIDENTAL SURFACING**

The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-06 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

### **FUEL AND ASPHALT PAY ADJUSTMENT**

The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of \$1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

### **ASPHALT PAVEMENT RIDE QUALITY CATEGORY A**

The Department will apply Pavement Rideability Requirements on this project in accordance with Section 410, Category A.

### **OPTION A**

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

# **Commonwealth of Kentucky**

## **DEPARTMENT OF HIGHWAYS**

# **CUMBERLAND PARKWAY**

## **ASPHALT PAVEMENT AND ROADWAY REHABILITATION**

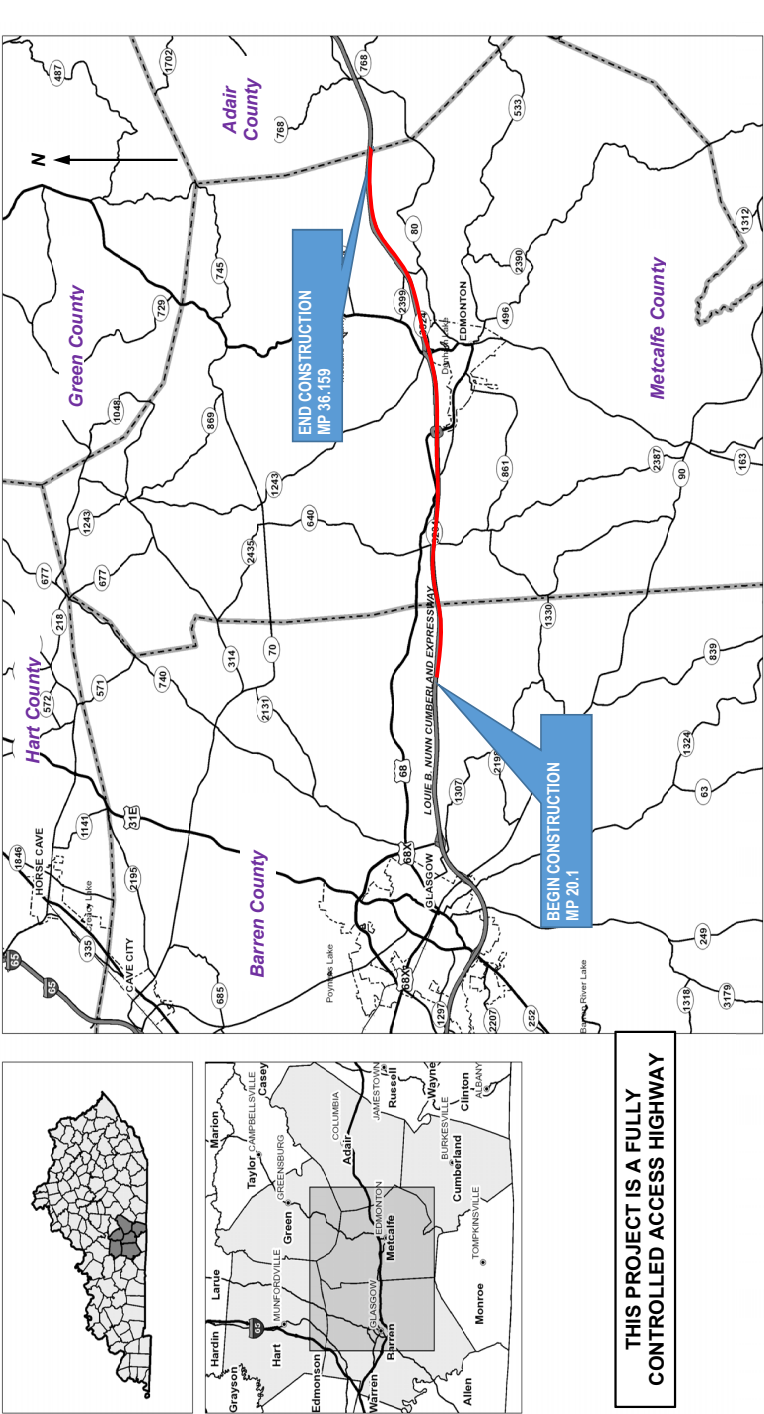
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**MP 20.100 - MP 36.159**  
**ITEM NOS. 03-20004.00 & 3-20013.00**

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Prepared By:  
WSP USA INC.  
1792 ALYSHEBA WAY  
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859-272-5400

June 4, 2021



COUNTY(S) Barren & Metcalfe

ITEM NO(S): 03-20004.00, 03-20016.00

PROJECT NO(S): NHPP 9008(003), FD52 005 9008 020-022, FD52 085 9008 022-037

LETTING DATE: 7/23/2021

RECOMMENDED BY: KYTC Project Manager DATE

PLAN APPROVED BY: State Highway Engineer DATE

FHWA APPROVED BY: DATE

**STANDARD DRAWINGS**  
**CUMBERLAND PARKWAY - BARREN & METCALFE CO.**  
**PAGE 1 OF 2**

APPLICABLE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD  
DRAWINGS - CURRENT EDITIONS:

RBB-003	LAYOUT OF GUARDRAIL AT TWIN STRUCTURES (DEPRESSED MEDIAN)
RBB-010	GUARDRAIL TRANSITION FROM NORMAL SHOULDER TO NARROW BRIDGE
RBC-002	GUARDRAIL CONN. TO BRIDGE END TYPE A COMPONENTS
RBC-003	GUARDRAIL CONN. TO BRIDGE END TYPE A AND A-1 COMPONENTS
RBC-005	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A
RBC-005N	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A NOTES
RBC-006	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A-1
RBI-001	TYPICAL GUARDRAIL INSTALLATIONS
RBI-002	TYPICAL GUARDRAIL INSTALLATIONS
RBI-003	TYPICAL INSTALLATION FOR GUARDRAIL END TREATMENT TYPE 2A
RBI-004	INSTALLATION OF GUARDRAIL END TREATMENT TYPE 1
RBI-005	GUARDRAIL INSTALLATION AT BRIDGE COLUMNS
RBI-006	GUARDRAIL INSTALLATION AT SIGN SUPPORTS
RBR-001	STEEL BEAM GUARDRAIL ("W" BEAM)
RBR-005	GUARDRAIL COMPONENTS
RBR-015	STEEL GUARDRAIL POSTS
RBR-020	GUARDRAIL END TREATMENT TYPE 1
RBR-025	GUARDRAIL END TREATMENT TYPE 2A
RBR-030	GUARDRAIL END TREATMENT TYPE 3
RBR-032	GUARDRAIL END TREATMENT TYPE 3 ALTERNATE END ANCHOR
RBR-055	DELINEATORS FOR GUARDRAIL
RDB-001	DROP BOX INLET TYPE 1
RDD-020	FLUME INLET TYPE 1
RDD-021	FLUME INLET TYPE 2
RDD-040	CHANNEL LINING CLASS II AND III
RDH-110	PIPE CULVERT HEADWALLS 0 SKEW
RDH-210	DIMENSIONS AND QTYS 30" - 108" HEADWALLS CIRCULAR PIPE 0 SKEW
RDI-001	CULVERT AND STORM SEWER PIPE TYPES AND COVER HEIGHTS
RDI-002	CULVERT AND STORM SEWER PIPE TYPES AND COVER HEIGHTS
RDI-011	CULVERT, ENTRANCE AND STORM SEWER PIPE TY. AND COVER HEIGHTS
RDI-020	PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER PIPE
RDI-021	PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER REINFORCED CONCRETE PIPE
RDI-040	EROSION CONTROL BLANKET SLOPE INSTALLATION
RDI-041	EROSION CONTROL BLANKET CHANNEL INSTALLATION
RDI-025	PIPE BEDDING TRENCH CONDITION
RDI-026	PIPE BEDDING TRENCH CONDITION REINFORCED CONC. PIPE
RDI-035	COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE
RDX-160	SECURITY DEVICES FO FRAMES, GRATES AND LIDS
RGS-001	CURVE WIDENENING AND SUPERLEVATION TRANSITIONS
RGX-001	MISCELLANEOUS STANDARDS
TPM-105	PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS

**STANDARD DRAWINGS**  
**CUMBERLAND PARKWAY - BARREN & METCALFE CO.**  
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TPM-125	PAVEMENT MARKER ARRANGEMENT EXIT GORE AND OFF-RAMP
TPM-126	PAVE. MARKER ARRANGEMENT FOR PARALLEL DECEL. LANE
TPM-135	PAVE. MARKER ARRANGEMENT ON-RAMP WITH PARALLEL ACCEL. LANE
TPM-200	TYPICAL ENTRANCE RAMP MARKINGS FOR INTERSTATES AND PKWYS
TPM-201	TYPICAL EXIT RAMP MARKINGS FOR INTERSTATES AND PARKWAYS
TPM-202	TYPICAL EXIT RAMP MARKINGS FOR INTERSTATES AND PARKWAYS
TPR-115	SHOULDER & EDGLINE RUMBLE STRIP PLACEMENT DETAILS
TPR-130	RUMBLE STRIP DETAILS MULTI-LANE ROADWAYS AND RAMPS
TTC-115	LANE CLOSURE MULTI-LANE HIGHWAY CASE I
TTD-120	DOUBLE FINE ZONES SIGNS
TTD-130	SPEED ZONE WARNING SIGNS
TTS-120	MOBILE OPERATION FOR DURABLE STRIPING CASE I



**REFERENCES**  
**CUMBERLAND PARKWAY - BARREN & METCALFE CO.**  
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- 1. KENTUCKY TRANSPORTATION CABINET, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
  
- 2. FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)  
- CURRENT EDITION WITH REVISIONS.
  
- 3. APPLICABLE KENTUCKY DEPARTMENT OF HIGHWAYS SUPPLEMENT SPECIFICATIONS:
  - SPCL. NOTE            ASPHALT MILLING AND TEXTURING
  - SPCL. NOTE            TYPICAL SECTION DIMENSIONS
  - SPCL. NOTE            BEFORE YOU DIG
  - SPCL. NOTE            FIXED COMPLETION DATE AND LIQUIDATED DAMAGES
  - SPCL. NOTE            NON-TRACKING TACK COAT
  - SPCL. NOTE            CLASS 1A GEOTEXTILE FABRICS USED IN STRUCTURAL  
PAVEMENT DESIGNS
  
  - SPCL. NOTE            EXPERIMENTAL KYCT AND HAMBURG TESTING
  - SPCL. NOTE            HMA ELECTRONIC DELIVERY MANAGEMENT SYSTEM
  - SPCL. NOTE            GUARDRAIL DELIVERY VERIFICATION SHEET
  - SPCL. NOTE            LONGITUDINAL PAVEMENT JOINT ADHESIVE
  - SPCL. NOTE            PORTABLE CHANGEABLE MESSAGE SIGNS

**GENERAL NOTES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 1 OF 4**

**I. GENERAL**

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

**II. MATERIALS**

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

**III. CONSTRUCTION METHODS**

**A. Maintain and Control Traffic**

See Traffic Control Plan and Standard Specifications.

**B. Site Preparation**

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

**B. Disposal of Waste**

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

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

After all work is completed, completely remove all debris from the job site. Perform Class A Final Dressing on all disturbed areas. Sow disturbed earthen areas with Seed Mixture No. 1. These items are incidental to other items in the contract.

**D. Guardrail**

Remove and replace guardrail and guardrail end treatments listed in this proposal and/or as directed by the Engineer. Guardrail, end treatments and terminal sections are listed by mile points and quantities are approximate only. Actual locations will be determined by the Engineer at the time of construction. Grade and reshape shoulders to proper template for new guardrail and end treatment. Utilize DGA for embankment when required for new end treatments. Remove any existing guardrail with a lane closure in place. Do not leave the area unprotected. After the guardrail is removed, a shoulder closure shall remain in place until the guardrail is replaced in that area. To minimize safety hazards, guardrail removal is to be performed at the latest practical time prior to initiating the paving operation in an area and re-installation is to begin within 5 calendar days from the time that the final base course is completed and shall be pursued until completion. If guardrail installation is not started within 5 calendar days after paving operations ends, liquated damages will be charged as outlined in Section 108 in the current edition of the Standard Specifications.

**GENERAL NOTES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 2 OF 4**

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

**E. Pavement Striping and Pavement Markers**

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

- (1) Permanent striping will be in place before a lane is opened to traffic; and
- (2) Permanent striping will be Extruded Thermoplastic Marking.

**F. On-Site Inspection**

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

**G. Caution**

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

**H. Utility Clearance**

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

**IV. METHOD OF MEASUREMENT**

**A. Maintain and Control Traffic**

See Traffic Control Plan.

**B. Site Preparation**

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

**C. Dense Graded Aggregate**

DGA used for guardrail and guardrail end treatments will be measured for payment.

**D. Pavement Repairs**

Pavement repairs will be measured per square yard.

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

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

**V. BASIS OF PAYMENT**

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

**GENERAL NOTES**  
**CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES**  
**PAGE 3 OF 4**

**A. Maintain and Control Traffic**

See Traffic Control Plan.

**B. Site Preparation**

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

**C. Dense Grade Aggregate**

See Section 302 of the Standard Specifications.

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

See Traffic Control Plan.

**E. Pavement Repairs**

Pavement repairs will be paid for by square yard. The bid items "Pavement Repair" for minor repairs, "Shoulder Failure Repair" for repairs on shoulders, and "Base Failure Repair" for major repairs include all materials and work need to complete each repair as directed by the Engineer.

**F. Ditching and Shouldering**

In accordance with Section 209 of the Standard Specifications, the bid item "Ditching and Shouldering" includes ditching on both sides of the roadway and the median for the entire length of the project where there is milling and pavement. Cleaning of all drainage structures, including drop box inlets, perforated pipe headwalls, and pipe structures 36 inches in diameter or less is also included in this bid item.

**G. Lane Closures**

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

**VI. MISCELLANEOUS**

- A. The dimensions shown on the typical sections for pavement and shoulder widths and thickness are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified in the Proposal.
- B. The Contractor is advised that locations of low wires crossing the roadway exist. These and all other utilities should be avoided on this project. If any utility is impacted, it will be the Contractor's responsibility to contact the affected utility and cover any costs associated with the impact.
- C. Guardrail, End Treatments, and Terminal Sections to be replaced are listed by mileposts. Exact placement to be approved by the Engineer on construction.
- D. Any signs (not to be replaced) and any light poles that are damaged during Construction are to be replaced at the Contractor's expense.
- E. The existing edge drain system is to be preserved. Care should be taken when the asphalt is removed and replaced, any edge drains damaged during these activities will be replaced at the Contractor's expense.
- F. Pavement rideability requirements in accordance with Section 410 Category A of the standard specifications shall apply on this project.
- G. The Department will accept the compaction of asphalt mixtures furnished for the driving lanes at one inch or greater on this project by Option A according to subsections 402 and 403 of the Standard Specifications. The Department will accept the compaction of all other mixtures by Option B.
- H. The Contractor shall be responsible for the repair of any asphalt in the travelled lanes that becomes detrimental or hazardous to the travelling public during construction. Areas needing repair will be at the discretion of the Engineer.

**GENERAL NOTES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 4 OF 4**

- I. No tree cutting is allowed nor should it be necessary. Contractor is expected to complete removal of paved ditches and other specified work with equipment that will not require cutting of trees. As needed, the Engineer will mark trees that cannot be removed. If cutting of trees is absolutely necessary for a specific area, then Engineer will determine if the work in that specific area can be modified or eliminated from the contract.
- J. The Contractor shall deliver up to 600 tons of milled asphalt material to the Kentucky Transportation Cabinet's Metcalfe County Maintenance Garage in Edmonton at 2867 Glasgow Road between the hours of 7:00 AM and 3:00 PM, Monday through Friday. The material shall be dumped in areas as directed by the Engineer.
- K. Delineators shall meet the requirements of Section 830 and 838 of the Standard Specifications. Delineators shall be placed in accordance with Section 3F of the M.U.T.C.D., current edition and Kentucky Standard Drawings, current edition.
- L. Quantities have been included in the General Summary for pavement repairs, base failure repairs, and shoulder failure repair, which are carried over from the Schedule and Summary of Pavement Repairs. The Engineer will determine the actual locations that will be repaired based upon the condition of the pavement at the time the repairs are accomplished. The Engineer shall determine the extent of the repairs.
- M. Trackless tack material shall be used.
- N. Allowing traffic to travel on milled surface is not allowed unless approved by the Engineer.
- O. A vacuum truck shall be required during all milling operations.
- P. Drainage grates that are missing shall be replaced. Contractor shall field verify various sizes of grates that are required and these shall be approved by the Engineer.
- Q. Existing median turnarounds shall be paved. Overlay with 1.5" CL3 ASPH SURF 0.38A PG64-22.
- R. MP 29.285 to MP 30.232 shall not be paved. New striping shall be installed in this area. Existing striping removal in this area shall be paid by Water Blasting. Exact location shall be determined by the Engineer.
- S. High crash areas (CRF>1) shown on plan sheets are for information only.
- T. Contrary to "Special Note for HMA Electronic Delivery Management System (HMA e-Ticketing) ", HMA Electronic Delivery Management System shall be incidental to asphalt bid items.

GENERAL SUMMARY							
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00							
BID CODE	ITEM	UNIT	NOTES	QUANTITIES			
				BARREN	METCALFE	US 68/ KY 80 RAMPS (EXIT 27)	TOTALS
00001	DGA BASE	TON	4	2,612	13,750	458	16,820
00078	CRUSHED AGGREGATE SIZE NO 2	TON	5	277	571		848
00080	CRUSHED AGGREGATE SIZE NO 23	TON		5	25		30
00100	ASPHALT SEAL AGGREGATE	TON		423	2,393	86	2,902
00103	ASPHALT SEAL COAT	TON		51	287	10	348
00190	LEVELING & WEDGING PG64-22	TON		305	1,728	34	2,067
00193	ASPHALT SCRATCH COURSE PG76-22	TON		1,918	10,916	295	13,129
00216	CL3 ASPH BASE 1.00D PG76-22	TON	6	60	14		74
00301	CL2 ASPH SURF 0.38D PG64-22	TON		2,179	12,340	213	14,732
00336	CL3 ASPH SURF 0.38A PG76-22	TON		6,101	34,707	996	41,804
00461	CULVERT PIPE-15 IN	LF			12		12
00462	CULVERT PIPE-18 IN	LF			8		8
00464	CULVERT PIPE-24 IN	LF			24		24
00468	CULVERT PIPE-36 IN	LF			12		12
01202	PIPE CULVERT HDWL. - 15 IN.	EACH			1		1
01208	PIPE CULVERT HDWL. - 24 IN.	EACH			1		1
01212	PIPE CULVERT HDWL. - 36 IN.	EACH			1		1
01310	REMOVE PIPE	LF	14		45		45
01450	S & F BOX INLET-OUTLET-18 IN	EACH			1		1
01690	FLUME INLET TYPE 1	EACH			6		6
01691	FLUME INLET TYPE 2	EACH			4		4
01720	RECONSTRUCT INLET	EACH				1	1
01982	DELINEATOR FOR GUARDRAIL M/W	EACH		171	778	30	979
02165	REMOVE PAVED DITCH	SQYD	12	1,489	4,901		6,390
02200	ROADWAY EXCAVATION	CUYD	7	340			340
02351	GUARDRAIL-STEEL W BEAM-S FACE	LF		13,317	57,609	1,461	72,387
02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH			6		6
02367	GUARDRAIL END TREATMENT TYPE 1	EACH		5	49		54
02369	GUARDRAIL END TREATMENT TYPE 2A	EACH		9	59	2	70
02373	GUARDRAIL END TREATMENT TYPE 3	EACH		4	9		13

GENERAL SUMMARY							
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00							
BID CODE	ITEM	UNIT	NOTES	QUANTITIES			
				BARREN	METCALFE	US 68/ KY 80 RAMPS (EXIT 27)	TOTALS
02381	REMOVE GUARDRAIL	LF		13,567	59,346	1,461	74,374
02387	GUARDRAIL CONN. TO BRIDGE END TY A-1	EACH			6		6
02483	CHANNEL LINING CLASS II	TON	13	555	1,107		1,662
02484	CHANNEL LINING CLASS III	TON			35		35
02562	TEMPORARY SIGNS	SQFT		1,000	3,000	1,000	5,000
02568	MOBILIZATION	LS					1
02569	DEMOBILIZATION	LS					1
02575	DITCHING AND SHOULDERING	LF		11,886	67,931		79,817
02575	DITCHING AND SHOULDERING (SPECIAL)	LF	9	163	1,029	40	1,232
02602	FABRIC-GEOTEXTILE CLASS 1	SQYD		10	80		90
02607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	SQYD	16		77		77
02625	REMOVE HEADWALL	EACH	15		4		4
02650	MAINTAIN AND CONTROL TRAFFIC	LS		1	1		2
02671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	3	1	1	2	4
02676	MOBILIZATION FOR MILL & TEXT	LS		1	1		2
02677	ASPHALT PAVE MILLING AND TEXTURING	TON	8	1,790	9,938	268	11,996
02696	SHOULDER RUMBLE STRIPS	LF		47,544	268,855	9,824	326,223
02726	STAKING	LS		1	1		2
02775	ARROW PANEL	EACH	3	1	1	2	4
03240	BASE FAILURE REPAIR	SQYD			21		21
05950	EROSION CONTROL BLANKET	SQYD	11	15,150	30,055	3,000	48,205
06511	PAVE STRIPING-TEMP PAINT-6 IN	LF		47,544	289,216		336,760
06542	PAVE STRIPING-THERMO-6 IN W	LF		29,715	182,626	4,999	217,340
06543	PAVE STRIPING-THERMO-6 IN Y	LF		23,772	145,833	4,825	174,430
06546	PAVE STRIPING-THERMO-12 IN W	LF			3,668		3,668
06549	PAVE STRIPING-TEMP REM TAPE-B	LF	2,3	1,700	1,700		3,400
06550	PAVE STRIPING-TEMP REM TAPE-W	LF	2,3	1,700	1,700		3,400
06551	PAVE STRIPING-TEMP REM TAPE-Y	LF	2,3	1,700	1,700		3,400
06556	PAVE STRIPING-DUR TY 1-6 IN W	LF	17		1,571		1,571
06557	PAVE STRIPING-DUR TY 1-6 IN Y	LF	17		1,256		1,256

GENERAL SUMMARY							
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00							
BID CODE	ITEM	UNIT	NOTES	QUANTITIES			
				BARREN	METCALFE	US 68/ KY 80 RAMPS (EXIT 27)	TOTALS
06568	PAVE MARKING-THERMO STOP BAR-24IN	LF				82	82
10020NS	FUEL ADJUSTMENT	DOLL		17,384	100,437		117,821
10030NS	ASPHALT ADJUSTMENT	DOLL		41,341	239,432		280,773
20071EC	JOINT ADHESIVE	LF		47,544	273,921	5,004	326,469
20191ED	OBJECT MARKER TY 3	EACH		5	48		53
20366NN	REPLACE GRATE	EACH			3		3
20550ND	SAWCUT PAVEMENT	LF	7	178			178
20757ED	PAVEMENT REPAIR	SQYD			112	14	126
22664EN	WATER BLASTING EXISTING STRIPE	LF	10		22,310		22,310
22883EN	CONCRETE WEDGE CURB	LF		8,603	21,525	330	30,458
23593EC	SHOULDER FAILURE REPAIR	SQYD		51	913		964
23954EC	REMOVE EXISTING WEDGE CURB	LF		8,603	16,820	265	25,688
24489EC	INLAID PAVEMENT MARKER	EACH		297	2,031	61	2,389
24522EC	REPAIR (DRAINAGE FAILURE NO. 1)	LS		1			1
24522EC	REPAIR (DRAINAGE FAILURE NO. 2)	LS			1		1
24522EC	REPAIR (DRAINAGE FAILURE NO. 3)	LS			1		1
24522EC	REPAIR (DRAINAGE FAILURE NO. 6)	LS			1		1
24522EC	REPAIR (DRAINAGE FAILURE NO. 7)	LS			1		1
24522EC	REPAIR (DRAINAGE FAILURE NO. 8)	LS			1		1
24731EC	REMOVE AND RESET (HDWL.)	EACH			1		1
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON		60	339	9	408



GENERAL SUMMARY							
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00							
BID CODE	ITEM	UNIT	NOTES	QUANTITIES			
				BARREN	METCALFE	US 68/ KY 80 RAMPS (EXIT 27)	TOTALS

- NOTES:
- 1. Quantities from all other summary sheets have been carried over and included in this General Summary Sheet.
  - 2. For traffic tapers at the ends of project.
  - 3. For maintenance of traffic.
  - 4. Includes 12,514 tons from pavement summary, 382 tons from erosion summary, 3,802 tons from guardrail summary, 45 tons for slide repair, and 77 tons for drainage failure no.7.
  - 5. Includes 559 tons from erosion summary, 249 tons from slide repair, and 40 tons from drainage failure repairs.
  - 6. Includes 61 tons from pavement repair summary and 13 tons for slide area repair.
  - 7. Used for slide area repair.
  - 8. Includes 61 tons from pavement repair summary and 11,935 tons from paving summary.
  - 9. Ditching and Shouldering (Special) includes all excavation and backfill necessary for fill slope erosion.
  - 10. For removing striping between MP 29.285 to MP 30.232.
  - 11. Includes 205 sqyd for drainage failure repairs and 48,000 sqyd for use during Ditching and Shouldering, as directed by the Engineer.
  - 12. Includes 85 sqyd from drainage failure repairs, and 6,305 sqyd from drainage repair summary.
  - 13. Includes 340 tons from drainage failure repairs, 1,152 ton from drainage repair summary, and 170 from erosion summary.
  - 14. Includes 4 feet from drainage repair summary, and 41 feet from drainage failure repair.
  - 15. Includes 1 from drainage repair summary, and 3 from drainage failure repairs.
  - 16. For wrapping pipe trench backfill.
  - 17. For striping bridges.

PAVING AREAS						
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00						
BID CODE	ITEM	NOTES	DEPTH (inches)	SQUARE YARDS		
				BARREN COUNTY	METCALFE COUNTY	US 68/ KY 80 RAMPS (EXIT 27)
00001	DGA BASE		1.50	21,131	119,652	4,301
00100	ASPHALT SEAL AGGREGATE		----	21,131	119,652	4,301
00103	ASPHALT SEAL COAT		----	21,131	119,652	4,301
00190	LEVELING & WEDGING PG64-22	2	0.50	11,094	62,821	1,235
00193	ASPHALT SCRATCH COURSE PG76-22	1	0.50	69,731	396,949	10,714
00301	CL2 ASPH SURF 0.38D PG64-22		1.50	26,413	149,577	2,586
00336	CL3 ASPH SURF 0.38A PG76-22		1.50	73,957	420,688	12,067
02677	ASPHALT MILLING AND TEXTURING		0.50	63,392	360,863	9,740
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING			170,102	967,215	25,367

- NOTES:
- 1. A quantity of 10% of the area being milled has been added for areas in the travel lanes that experience scabbing after pavement is milled, and for any settlement of pavement and base failure repairs.
  - 2. For filling in shoulder rumble strips and leveling the existing shoulder pavement for overlay.

PAVING SUMMARY							
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00							
BID CODE	ITEM	NOTES	UNIT	BARREN COUNTY	METCALFE COUNTY	US 68/ KY 80 RAMP (EXIT 27)	TOTALS
00001	DGA BASE	6	TON	1,823	10,320	371	12,514
00100	ASPHALT SEAL AGGREGATE	3	TON	423	2,393	86	2,902
00103	ASPHALT SEAL COAT	4	TON	51	287	10	348
00190	LEVELING & WEDGING PG64-22	2	TON	305	1,728	34	2,067
00193	ASPHALT SCRATCH COURSE PG76-22	2	TON	1,918	10,916	295	13,129
00301	CL2 ASPH SURF 0.38D PG64-22	2	TON	2,179	12,340	213	14,732
00336	CL3 ASPH SURF 0.38A PG76-22	2	TON	6,101	34,707	996	41,804
02677	ASPHALT MILLING AND TEXTURING	2	TON	1,743	9,924	268	11,935
20071EC	JOINT ADHESIVE		LF	47,544	273,921	5,004	326,469
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	5	TON	60	339	9	408

- NOTES:
- 1. Quantities are carried over and included in General Summary.
  - 2. Estimated at 110 lbs. per sq. yd. per inch of depth.
  - 3. Estimated at 20 lbs. per sq. yd. (two applications).
  - 4. Estimated at 2.4 lbs. per sq. yd. (two applications).
  - 5. Estimated at 0.70 lbs. per sq. yd.
  - 6. Estimated at 115 lbs. per sq. yd. per inch of depth.

SCHEDULE AND SUMMARY OF PAVEMENT REPAIRS												
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00												
APPROXIMATE LOCATION					NOTES	TRAVEL LANE REPAIRS				SHOULDER REPAIRS		
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS		SQYD		TON		SQYD	SHOULDER FAILURE REPAIR	
						BASE FAILURE REPAIR	PAVEMENT REPAIR					CL3 ASPH BASE PG 76-22 1.00D
X		EB	1248+61		21.705					00216	02677	23593EC
X		WB	1253+96 TO 1266+73		21.806 TO 22.048	8				47	47	44.4
	X	EB	1283+25		22.361		10.7					
	X	EB	1315+40		22.970							317.8
	X	EB	1384+26		24.274							60.7
	X	EB	1397+98		24.534							11.1
	X	EB	1435+98		25.253							34.0
	X	WB	1457+96 TO 1459+20		25.670 TO 25.693	8				5	5	
	X	WB	1461+78 TO 1464+33		25.742 TO 25.790	8				9	9	
	X	EB	1537+87		27.183		10.7					
	X	WB	1584+97		28.075	6	10.7					
	X	WB	1595+92		28.282		10.7					
	X	EB	1623+52		28.805							13.3
	X	WB	1637+88		29.077		10.7					
	X	WB	1700+96		30.272							13.3
	X	WB	1703+92		30.328							10.0
	X	EB	1707+70		30.399							11.1

SCHEDULE AND SUMMARY OF PAVEMENT REPAIRS											
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00											
APPROXIMATE LOCATION				NOTES		TRAVEL LANE REPAIRS					SHOULDER REPAIRS
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS		SQYD			TON		SQYD
						BASE FAILURE REPAIR	PAVEMENT REPAIR		CL3 ASPH BASE PG 76-22 1.00D	ASPHALT MILLING AND TEXTURING	SHOULDER FAILURE REPAIR
	X	EB	1708+86		30.421	03240	20757ED		00216	02677	23593EC
											11.1
	X	EB	1712+75		30.495						11.1
	X	WB	1721+65		30.664						48.4
	X	WB	1721+47		30.660		10.7				
	X	WB	1726+02		30.746		10.7				
	X	EB	1754+60		31.288		16.0				
	X	EB	1766+05		31.505		10.7				
	X	EB	1787+89		31.918		10.7				
	X	WB	1792+34		32.002						24.2
	X	EB	1792+35		32.002	10.7					
	X	WB	1795+66		32.065						43.8
	X	EB	1819+05		32.508						36.9
	X	EB	1845+85		33.016						11.1
	X	EB	1846+25		33.023						11.1
	X	EB	1861+00		33.300						111.1
	X	WB	1873+19		33.534						5.6
	X	WB	1875+28		33.573		10.7				

NOTES:

1. Quantities are carried over and included in General Summary.
2. All shoulder repairs are on the outside shoulder unless noted otherwise.
3. Shoulder repair is on the inside shoulder.
4. An additional 15% of shoulder failure repair has been added for shoulder that is damaged during construction.
5. Pavement repair is on ramp A of the US 68/KY 80 (EXIT 27) interchange.
6. Pavement repair is at end of a bridge.
7. 77 tons of DGA will be included for this repair for use as directed by the Engineer. For drainage failure no. 7.
8. For longitudinal joint repairs.

SCHEDULE AND SUMMARY OF GUARDRAIL																
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																
LOCATION				ITEM												
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES	TON	LIN. FT.		EACH							
							REMOVE GUARDRAIL	GUARDRAIL - STEEL W BEAM - S FACE	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	GUARDRAIL CONNECTOR TO BRIDGE END TY A	GR END TREATMENT TYPE 1	GUARDRAIL END TREATMENT TYPE 2A	GUARDRAIL END TREATMENT TYPE 3	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	OBJECT MARKER TY 3	
						00001	02381	02351	01982	02363	02367	02369	02373	02387	20191 ED	
X		WB	1163+89 TO 1177+52	20.100 TO 20.358		70	1363	1313	14		1					1
X		EB	1163+89 TO 1181+49	20.100 TO 20.433		90	1760	1760	18			1				
X		EB	1192+10 TO 1212+28	20.634 TO 21.016		103	2019	2019	21			1	1			
X		WB	1196+51 TO 1211+55	20.718 TO 21.003		77	1503	1453	16		1	1				1
X		EB	1232+57 TO 1243+98	21.401 TO 21.617		58	1141	1091	12		1	1				1
X		WB	1233+18 TO 1245+45	21.412 TO 21.645		63	1226	1176	13		1	1				1
X		EB	1248+69 TO 1261+19	21.706 TO 21.943		64	1256	1256	26			1	1			
X		WB	1257+56 TO 1264+82	21.874 TO 22.012		37	723	723	17			1	1			
X		EB	1268+25 TO 1283+69	22.076 TO 22.369		79	1548	1548	23			1	1			
X		WB	1273+01 TO 1283+30	22.167 TO 22.362		53	1028	978	11		1	1				1
	X	EB	1286+49 TO 1288+99	22.422 TO 22.469	4			200	3		1	1				1
	X	EB	1314+88 TO 1328+52	22.960 TO 23.218		70	1361	1361	28			1	1			
	X	WB	1323+97 TO 1329+72	23.132 TO 23.241		29	577	527	12		1	1				1
	X	WB	1339+79 TO 1348+68	23.431 TO 23.600		45	890	840	9		1	1				1
	X	EB	1342+04 TO 1346+68	23.474 TO 23.562		24	465	415	5		1	1				1
	X	EB	1358+90 TO 1369+78	23.793 TO 23.999		55	1084	1084	22			1	1			

SCHEDULE AND SUMMARY OF GUARDRAIL																										
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																										
LOCATION				ITEM																						
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES		TON	LIN. FT.		EACH							20191 ED									
								DGA BASE	REMOVE GUARDRAIL	GUARDRAIL - STEEL W BEAM - S FACE	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	GUARDRAIL CONNECTOR TO BRIDGE END TY A	GR END TREATMENT TYPE 1	GUARDRAIL END TREATMENT TYPE 2A	GUARDRAIL END TREATMENT TYPE 3	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1		OBJECT MARKER TY 3								
	X	WB	1363+89 TO 1369+24	23.888 TO 23.989			27	537	487	11		1	1				02367	02369	02373	02387						1
	X	WB	1373+32 TO 1375+31	24.066 TO 24.104			10	199	174	2				1						1						
	X	EB	1373+40 TO 1375+77	24.068 TO 24.113			12	238	163	3	1	1													1	
	X	WB	1376+85 TO 1379+19	24.133 TO 24.178			12	235	160	3	1	1													1	
	X	EB	1377+29 TO 1382+00	24.142 TO 24.231			24	471	446	4										1						
	X	WB	1393+75 TO 1391+25	24.406 TO 24.453	4				200	3		1	1												1	
	X	EB	1421+16 TO 1436+81	24.973 TO 25.269			80	1564	1514	16		1	1												1	
	X	WB	1423+63 TO 1437+67	25.019 TO 25.285			72	1405	1405	15				1	1				1							
	X	EB	1444+93 TO 1458+29	25.423 TO 25.676			68	1340	1290	22		1	1												1	
	X	WB	1445+28 TO 1461+09	25.429 TO 25.729			81	1577	1577	28				1	1				1							
	X	EB	1465+61 TO 1474+25	25.814 TO 25.978			44	865	815	9		1	1												1	
	X	WB	1469+65 TO 1475+43	25.891 TO 26.000			30	578	528	6		1	1												1	
	X	EB	1486+10 TO 1496+98	26.202 TO 26.409			56	1088	1038	11		1	1												1	
	X	WB	1493+42 TO 1497+05	26.341 TO 26.410			19	363	313	4		1	1												1	
	X	EB	1517+60 TO 1534+96	26.799 TO 27.128			89	1736	1686	18		1	1												1	
	X	WB	1524+79 TO 1543+82	26.935 TO 27.295			97	1903	1853	20		1	1												1	



SCHEDULE AND SUMMARY OF GUARDRAIL																
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																
LOCATION					ITEM											
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES	TON	LIN. FT.		EACH							
							REMOVE GUARDRAIL	GUARDRAIL - STEEL W BEAM - S FACE	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	GUARDRAIL CONNECTOR TO BRIDGE END TY A	GR END TREATMENT TYPE 1	GUARDRAIL END TREATMENT TYPE 2A	GUARDRAIL END TREATMENT TYPE 3	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	OBJECT MARKER TY 3	
	X	EB	1554+32 TO 1556+77	27.495 TO 27.541	4		02381	02351	01982	02363	02367	02369	02373	02387	20191 ED	
	X	EB	1547+33 TO 1550+89	27.362 TO 27.429		18	358	308	8		1	1			1	
	X	WB	1549+23 TO 1552+71	27.398 TO 27.464		18	349	299	7		1	1			1	
	X	WB	1556+58 TO 1559+09	27.537 TO 27.585		13	251	201	3		1	1			1	
	X	EB	1574+83 TO 1585+66	27.883 TO 28.088		55	1084	1009	11	1	1				1	
	X	WB	1575+56 TO 1584+75	27.897 TO 28.071		47	919	894	10			1		1		
	X	WB	1588+13 TO 1595+48	28.135 TO 28.274		38	736	661	8	1	1				1	
	X	EB	1589+01 TO 1603+95	28.152 TO 28.434		76	1495	1470	15			1		1		
	X	WB	1601+25 TO 1606+25	28.383 TO 28.478		26	501	451	6		1	1			1	
	X	EB	1609+60 TO 1614+75	28.541 TO 28.639		26	515	465	6		1	1			1	
	X	WB	1612+84 TO 617+81	28.603 TO 28.697		25	496	446	8		1	1			1	
	X	EB	1627+99 TO 1632+01	28.890 TO 28.966		21	403	353	9		1	1			1	
	X	EB	1637+74 TO 1651+45	29.074 TO 29.334		70	1376	1326	28		1	1			1	
	X	WB	1638+62 TO 1657+14	29.091 TO 29.442		95	1849	1799	27		1	1			1	
	X	WB	1692+03 TO 1710+51	30.103 TO 30.453		95	1851	1801	37		1	1			1	
	X	EB	1707+46 TO 1712+91	30.395 TO 30.498		28	545	545	11			1	1			

SCHEDULE AND SUMMARY OF GUARDRAIL																
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																
LOCATION				ITEM												
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES	TON	LIN. FT.		EACH							
							REMOVE GUARDRAIL	GUARDRAIL - STEEL W BEAM - S FACE	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	GUARDRAIL CONNECTOR TO BRIDGE END TY A	GR END TREATMENT TYPE 1	GUARDRAIL END 2A TREATMENT TYPE 2A	GUARDRAIL END TREATMENT TYPE 3	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	OBJECT MARKER TY 3	
						00001	02381	02351	01982	02363	02367	02369	02373	02387	20191 ED	
	X	EB	1722+79 TO 1736+68	30.685 TO 30.948		71	1390	1340	14		1	1			1	
	X	WB	1728+60 TO 1743+85	30.795 TO 31.084		78	1526	1526	16			1	1			
	X	EB	1750+79 TO 1771+23	31.216 TO 31.603		105	2045	1995	21		1	1			1	
	X	WB	1751+54 TO 1758+81	31.230 TO 31.367		37	727	677	8		1	1			1	
	X	WB	1763+69 TO 1774+61	31.460 TO 31.666		56	1092	1042	11		1	1			1	
	X	EB	1794+73 TO 1805+26	32.048 TO 32.247		54	1060	1010	16		1	1			1	
	X	WB	1797+50 TO 1808+10	32.100 TO 32.301		54	1058	1008	13		1	1			1	
	X	EB	1818+20 TO 1821+62	32.492 TO 32.557		17	341	291	4		1	1			1	
	X	WB	1819+86 TO 1822+78	32.524 TO 32.579		15	292	242	3		1	1			1	
	X	EB	1828+85 TO 1837+38	32.694 TO 32.855		44	853	803	9		1	1			1	
	X	WB	1829+69 TO 1840+83	32.710 TO 32.921		57	1115	1115	12			1	1			
	X	EB	1854+00 TO 1863+55	33.170 TO 33.351		49	955	918	10		1	1			1	
	X	WB	1854+71 TO 1877+69	33.184 TO 33.619		117	2297	2247	23		1	1			1	
	X	EB	1870+60 TO 1903+03	33.485 TO 33.659		47	921	871	10		1	1			1	
	X	EB	1910+35 TO 1914+25	33.798 TO 33.872		20	385	335	8		1	1				
	X	WB	1914+19 TO 1931+49	33.870 TO 34.198		89	1748	1723	30			1		1		0

SCHEDULE AND SUMMARY OF GUARDRAIL																
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																
LOCATION				ITEM												
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES		TON	LIN. FT.		EACH						
					DGA BASE	REMOVE GUARDRAIL		GUARDRAIL - STEEL W BEAM - S FACE	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	GUARDRAIL CONNECTOR TO BRIDGE END TY A	GR END TREATMENT TYPE 1	GUARDRAIL END TREATMENT TYPE 2A	GUARDRAIL END TREATMENT TYPE 3	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	OBJECT MARKER TY 3	
	X	EB	1928+24 TO 1931+61	34.137 TO 34.200			00001	02381	02351	01982	02363	02367	02369	02373	02387	20191 ED
							17	338	263	4	1	1				1
	X	WB	1933+80 TO 1965+25	34.242 TO 34.838			161	3145	3120	32	1					
	X	EB	1933+85 TO 1952+06	34.243 TO 34.588			93	1822	1797	19			1		1	
	X	EB	1977+13 TO 1985+99	35.063 TO 35.230			45	885	885	10			1	1		
	X	WB	1979+16 TO 1986+42	35.101 TO 35.238			37	727	677	9		1	1			1
	X	WB	1989+97 TO 1994+34	35.306 TO 35.388			23	441	441	9			1	1		
	X	EB	1995+94 TO 1998+42	35.418 TO 35.465	4				200	3		1	1			1
	X	WB	2002+25 TO 2017+37	35.538 TO 35.825			77	1513	1463	17		1	1			1
	X	EB	2008+15 TO 2017+52	35.650 TO 35.828			48	937	887	10		1	1			1
	X	EB	2026+40 TO 2029+04	35.996 TO 36.046			13	264	214	3		1	1			1
	X	WB	2026+82 TO 2029+47	36.004 TO 36.054			14	265	215	3		1	1			1
	X		0+33 TO 5+77		3		24	472	472	10			1			
	X		0+33 9+64		3		51	989	989	20			1			

SCHEDULE AND SUMMARY OF GUARDRAIL															
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00															
LOCATION				ITEM											
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES	TON	LIN. FT.		EACH						
							REMOVE GUARDRAIL	GUARDRAIL - STEEL W BEAM - S FACE	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	GUARDRAIL CONNECTOR TO BRIDGE END TY A	GR END TREATMENT TYPE 1	GUARDRAIL END TREATMENT TYPE 2A	GUARDRAIL END TREATMENT TYPE 3	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	OBJECT MARKER TY 3
						00001	02381	02351	01982	02363	02367	02369	02373	02387	20191 ED
BARREN COUNTY TOTALS:						694	13,567	13,317	171	0	5	9	4	0	5
METCALFE COUNTY TOTALS:						3,033	59,346	57,609	778	6	49	59	9	6	48
US 68/ KY 80 (EXIT 27) TOTALS:						75	1,461	1,461	30	0	0	2	0	0	0
PROJECT TOTALS:						3,802	74,374	72,387	979	6	54	70	13	6	53

- NOTES:
- 1. Quantities are carried over and included in the General Summary.
  - 2. Remove Guardrail includes removal of any end treatments.
  - 3. Guardrail is on ramp B of the US 68/KY 80 (EXIT 27) interchange.
  - 4. Guardrail is proposed for protecting headwall in clear zone.

SCHEDULE AND SUMMARY OF DRAINAGE REPAIRS																	
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																	
APPROXIMATE LOCATION					ITEM												
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES					SQ. YD.	TON	EACH				LF	
										REMOVE PAVED DITCH	CHANNEL LINING CLASS II	S & F BOX INLET- OUTLET-18 IN	RECONSTRUCT INLET	REMOVE HEADWALL	REPLACE GRATE	CULVERT PIPE-18 IN	REMOVE PIPE
										02165	02483	01450	01720	02625	20366NN	00462	01310
X		EB	1178+68 TO 1182+04	20.380 TO 20.444						314	57						
X		EB	1194+60 TO 1198+82	20.682 TO 20.762						337	61						
X		WB	1208+21 TO 1211+24	20.939 TO 20.997						243	44						
X		WB	1279+39 TO 1282+99	22.288 TO 22.355						283	51						
X		EB	1280+87 TO 1283+86	22.315 TO 22.372						237	43						
	X	WB	1291+27 TO 1291+87	22.513 TO 22.524						50	9						
	X	WB	1339+02 TO 1342+22	23.417 TO 23.477						299	54						
	X	EB	1384+51	24.278	5										1		
	X	EB	1400+05 TO 1400+68	24.573 TO 24.585						51	9						
	X	WB	1421+72 TO 1424+59	24.983 TO 25.037						226	41						
	X	EB	1444+99 TO 1449+66	25.424 TO 25.512						368	66						
	X	WB	1500+91	26.483	6						5	1		1		8	4
	X	EB	1519+56 TO 1522+14	26.836 TO 26.885						234	42						
	X	WB	1534+78 TO 1535+11	27.124 TO 27.131						49	9						
	X	WB	1541+34 TO 1544+67	27.249 TO 27.312						304	55						
	X	EB	1545+56 TO 1545+61	27.329 TO 27.330						37	7						
	X	EB	1603+79 TO 1604+49	28.431 TO 28.445						58	11						

SCHEDULE AND SUMMARY OF DRAINAGE REPAIRS												
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00												
APPROXIMATE LOCATION					ITEM							
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES							
					SQ. YD.	TON	EACH				LF	
					REMOVE PAVED DITCH	CHANNEL LINING CLASS II	S & F BOX INLET-OUTLET-18 IN	RECONSTRUCT INLET	REMOVE HEADWALL	REPLACE GRATE	CULVERT PIPE-18 IN	REMOVE PIPE
	X	WB	1616+11 TO 1616+33	28.665 TO 28.669	02165	02483	01450	01720	02625	20366NN	00462	01310
	X	MED	1638+48	29.088	30	5						
	X	EB	1647+37 TO 1652+32	29.257 TO 29.351	397	71				1		
	X	EB	1724+60 TO 1727+86	30.720 TO 30.781	260	47						
	X	EB	1750+65 TO 1753+18	31.213 TO 31.261	202	36						
	X	EB	1768+81 TO 1771+50	31.557 TO 31.608	213	38						
	X	EB	1794+55 TO 1801+10	32.044 TO 32.168	520	94						
	X	WB	1797+46 TO 1801+18	32.099 TO 32.170	285	51						
	X	WB	1801+51 TO 1805+31	32.176 TO 32.248	330	59						
	X	EB	1845+99 TO 1846+21	33.023 TO 33.019	98	18						
	X	WB	1879+21	33.648						1		
	X	WB	1908+11 TO 1910+50	33.755 TO 33.801	194	35						
	X	WB	1924+05 TO 1932+10	34.057 TO 34.210	686	123						
	X	EB	1998+18	35.461		12						
	X		3+26					1				
					7							

SCHEDULE AND SUMMARY OF DRAINAGE REPAIRS											
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00											
APPROXIMATE LOCATION				ITEM							
BARREN COUNTY	METCALFE COUNTY	DIRECTION	MILEPOINTS	NOTES	SQ. YD.	TON	EACH				LF
					REMOVE PAVED DITCH	CHANNEL LINING CLASS II	S & F BOX INLET-OUTLET-18 IN	RECONSTRUCT INLET	REMOVE HEADWALL	REPLACE GRATE	CULVERT PIPE-18 IN
					02165	02483	01450	01720	02625	20366NN	00462
											01310
BARREN COUNTY TOTALS:					1,414	255	0	0	0	0	0
METCALFE COUNTY TOTALS:					4,891	897	1	0	1	3	8
US 68/ KY 80 (EXIT 27) TOTALS:					0	0	0	1	0	0	0
PROJECT TOTALS:					6,305	1,152	1	1	1	3	8
											4

NOTES:

- Quantities are carried over and included in General Summary.
- Channel Lining Class II is included for placement on top of broken paved ditches. Assumed depth of placement is 6 inches. Breaking the existing paved ditch is included in "Remove Paved Ditch." Concrete shall be broken to size of channel lining Class II.
- Channel Lining Class II is included for repairing erosion around existing headwalls.
- Size of grate at each location to be field verified by Contractor and approved by Engineer.
- Furnish and Install new grate on existing headwall as directed by the Engineer.
- Length of pipe is estimated. Actual quantity of pipe to be determined by the Engineer.
- Reconstruct the aprons and top phase of the damaged drop box inlet as directed by the Engineer. See KYTC standard drawing RDB-001 for details. Damaged drop box is located at Ramp A of the US 68/KY80 (Exit 27) interchange.

SCHEDULE AND SUMMARY OF EROSION REPAIRS																
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																
APPROXIMATE LOCATION					SHOULDER AND FILL SLOPE REPAIR											
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES				TON			EACH		LF		
									DGA BASE	CRUSHED AGGREGATE SIZE NO 2	CHANNEL LINNING CLASS II	FLUME INLET TYPE 1	FLUME INLET TYPE 2	DITCHING AND SHOULDERING (SPECIAL)	CONCRETE WEDGE CURB	REMOVE EXISTING WEDGE CURB
									00001	00078	02483	01690	01691	02575	22883EN	23954EC
X		EB	1163+89 TO 1180+99	20.100 TO 20.424	2				11	22				35	1652	1652
X		WB	1163+89 TO 1177+03	20.100 TO 20.349	2				8					25	1255	1255
X		EB	1194+67 TO 1212+03	20.683 TO 21.012											1678	1678
X		WB	1205+00 TO 1210+61	20.878 TO 20.985	2				6					20	539	539
X		WB	1233+51 TO 1244+04	21.418 TO 21.618											1002	1002
X		EB	1233+64 TO 1243+54	21.421 TO 21.609	2				3					10	940	940
X		WB	1273+96 TO 1281+84	22.185 TO 22.334	2				12					40	759	759
X		EB	1275+48 TO 1283+56	22.213 TO 22.366											779	779
	X	WB	1341+00 TO 1347+95	23.454 TO 23.586	2				9					30	666	666
	X	EB	1363+95 TO 1368+71	23.889 TO 23.979	2				9					30	452	211
	X	EB	1421+84 TO 1436+49	24.985 TO 25.263	2				22	18				70	1385	635
	X	WB	1423+63 TO 1433+55	25.019 TO 25.207	2				39					125	941	729
	X	EB	1424+47	25.035	4						7	1				
	X	WB	1427+54	25.093	4						7	1				
	X	EB	1430+56	25.151	4						7	1				
	X	WB	1445+28 TO 1457+47	25.429 TO 25.660	2				20	36				65	1165	826
	X	WB	1469+65 TO 1475+43	25.891 TO 26.000	2					102	50				557	



SCHEDULE AND SUMMARY OF EROSION REPAIRS													
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00													
APPROXIMATE LOCATION				SHOULDER AND FILL SLOPE REPAIR									
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS		MILEPOINTS		NOTES						
								TON		EACH		LF	
				DGA BASE	CRUSHED AGGREGATE SIZE NO 2	CHANNEL LINNING CLASS II	FLUME INLET TYPE 1	FLUME INLET TYPE 2	DITCHING AND SHOULDERING (SPECIAL)	CONCRETE WEDGE CURB	REMOVE EXISTING WEDGE CURB		
				00001	00078	02483	01690	01691	02575	22883EN	23954EC		
	X	WB	1475+34			7		1					
	X	EB	1523+14 TO 1534+96	33					105	1152	1152		
	X	WB	1526+07 TO 1543+82	30	74				95	1733	856		
	X	WB	1535+99			7	1						
	X	WB	1576+09 TO 1584+60	20					65	829	829		
	X	EB	1576+17 TO 1585+50							910	910		
	X	EB	1589+01 TO 1603+70	6					20	1412	1412		
	X	WB	1602+01 TO 1605+75							352			
	X	WB	1602+02			7		1					
	X	WB	1612+97 TO 1617+81	23					75	461	461		
	X	WB	1646+97 TO 1648+96		37	2				177	177		
	X	WB	1695+40 TO 1696+02							40	40		
	X	WB	1700+07 TO 1704+66							438	438		
	X	EB	1710+44 TO 1712+91							247	247		
	X	EB	1725+17 TO 1736+21							1053	1053		
	X	WB	1729+41 TO 1738+79	3					10	888	888		
	X	WB	1753+31 TO 1758+24		31	8				571	571		

SCHEDULE AND SUMMARY OF EROSION REPAIRS																
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00																
APPROXIMATE LOCATION					SHOULDER AND FILL SLOPE REPAIR											
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	NOTES				TON			EACH		LF		
					DGA BASE	CRUSHED AGGREGATE SIZE NO 2	CHANNEL LINNING CLASS II	FLUME INLET TYPE 1	FLUME INLET TYPE 2	DITCHING AND SHOULDERING (SPECIAL)	CONCRETE WEDGE CURB	REMOVE EXISTING WEDGE CURB				
								00001	00078	02483	01690	01691	02575	22883EN	23954EC	
		X EB	1752+91 TO 1771+05	31.256 TO 31.599	2			5	9				15	1756	1756	
		X WB	1763+88 TO 1773+04	31.463 TO 31.637	2			6					20	865	865	
		X EB	1797+96 TO 1802+97	32.109 TO 32.204	2				13	5				475		
		X WB	1798+60 TO 1806+10	32.121 TO 32.263	2			3	20				10	720	720	
		X EB	1802+52	32.195	4					7	1					
		X EB	1829+83 TO 1836+89	32.713 TO 32.846	2			19					60	683	683	
		X WB	1829+96 TO 1837+19	32.715 TO 32.852	2			6	40				20	702	702	
		X EB	1854+52 TO 1856+02	33.180 TO 33.209	2				6	3				128		
		X WB	1854+72 TO 1862+99	33.184 TO 33.341	2				40	18				777		
		X EB	1855+99	33.208	4					7		1				
		X WB	1856+98	33.227	4					7	1					
		X WB	1862+97	33.340	4					7		1				
		X	1+05 TO 5+69		5			12					40	330	265	
X			MISC. BARREN		3			10	6				33			
	X		MISC. METCALFE		3			67	106	17			214			

SCHEDULE AND SUMMARY OF EROSION REPAIRS												
CUMBERLAND PARKWAY - BARREN & METCALFE CO. - ITEM NOS. 03-20004.00 & 03-20013.00												
APPROXIMATE LOCATION			SHOULDER AND FILL SLOPE REPAIR									
BARREN COUNTY	METCALFE COUNTY	DIRECTION	STATIONS	MILEPOINTS	TON				EACH		LF	
					DGA BASE	CRUSHED AGGREGATE SIZE NO 2	CHANNEL LINNING CLASS II	FLUME INLET TYPE 1	FLUME INLET TYPE 2	DITCHING AND SHOULDERING (SPECIAL)	CONCRETE WEDGE CURB	REMOVE EXISTING WEDGE CURB
					00001	00078	02483	01690	01691	02575	22883EN	23954EC
BARREN COUNTY TOTALS:					50	28	0	0	0	163	8,603	8,603
METCALFE COUNTY TOTALS:					320	531	170	6	4	1,029	21,525	16,820
US 68/ KY 80 (EXIT 27) TOTALS:					12	0	0	0	0	40	330	265
PROJECT TOTALS:					382	559	170	6	4	1,232	30,458	25,688

NOTES:

- 1. Quantities are carried over and included in General Summary.
- 2. Exact location and quantity of ditching and shouldering special and slope erosion repairs to be determined by the Engineer.
- 3. Additional quantities have been added for additional erosion repairs. Additional erosion repairs are to be determined by the engineer.
- 4. Location of flume inlets are approximate. Exact location to be determined by the engineer.
- 5. Erosion repair is on ramp B of the US 68/KY 80 (EXIT 27) interchange.

SCHEDULE AND SUMMARY OF DRAINAGE FAILURE REPAIRS

CUMBERLAND PARKWAY - BARREN AND METCALFE - 03.20004.00 & 03-20013.00

DRAINAGE FAILURE REPAIR

DRAINAGE FAILURE NO.	LOCATION				DRAINAGE FAILURE REPAIR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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4	WB	27.92	LT. 1576+70	METCALFE	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

SCHEDULE AND SUMMARY OF DRAINAGE FAILURE REPAIRS																
CUMBERLAND PARKWAY - BARREN AND METCALFE - 03.20004.00 & 03-20013.00																
DRAINAGE FAILURE NO.	DIRECTION	MP	STA.	METCALFE	DRAINAGE FAILURE REPAIR											
					LOCATION	NOTES										
8	WB	33.43	LT. 1867+50	METCALFE		24622EC	REPAIR									
7	EB	33.30	RT. 1861+00	METCALFE	1	02165	REMOVE PAVED DITCH									
						02483	CHANNEL LINING CLASS II	10								
						02484	CHANNEL LINING CLASS III									
						0078	CRUSHED AGG. SIZE NO. 2	10								
						0080	CRUSHED AGG. SIZE NO. 23	5								
						02602	FABRIC-GEOTEXTILE CLASS 1	10								
						05950	EROSION CONTROL BLANKET	10								
						01310	REMOVE PIPE	12								
						02625	REMOVE HEADWALL	1								
						24731EC	REMOVE AND RESET (HDL.)	1								
						00461	CULVERT PIPE - 15 INCH	12								
						00464	CULVERT PIPE - 24 INCH								24	
						00468	CULVERT PIPE - 36 INCH							12		
						01202	PIPE CULVERT HDWL. - 15 IN.	1								
						01208	PIPE CULVERT HDWL. - 24 IN.								1	
						01212	PIPE CULVERT HDWL. - 36 IN.									

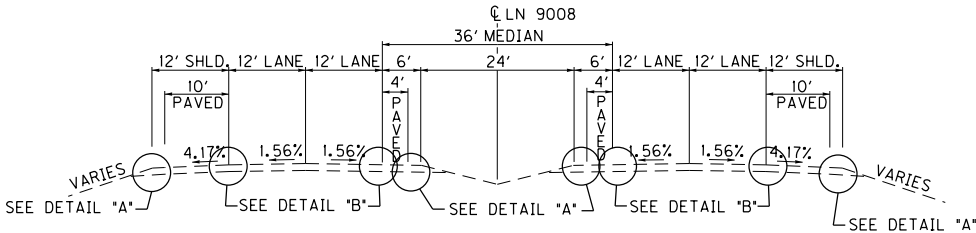
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							LS	SQ YD	TON	TON	TON	TON	CRUSHED AGG. SIZE NO. 2	CRUSHED AGG. SIZE NO. 23	02602	FABRIC-GEOTEXTILE CLASS 1	05950	EROSION CONTROL BLANKET	01310	REMOVE PIPE	02625	REMOVE HEADWALL	24731EC	REMOVE AND RESET (HDWL.)	00461	CULVERT PIPE - 15 INCH	00464	CULVERT PIPE - 24 INCH	00468	CULVERT PIPE - 36 INCH	01202	PIPE CULVERT HDWL. - 15 IN.	01208	PIPE CULVERT HDWL. - 24 IN.	01212	PIPE CULVERT HDWL. - 36 IN.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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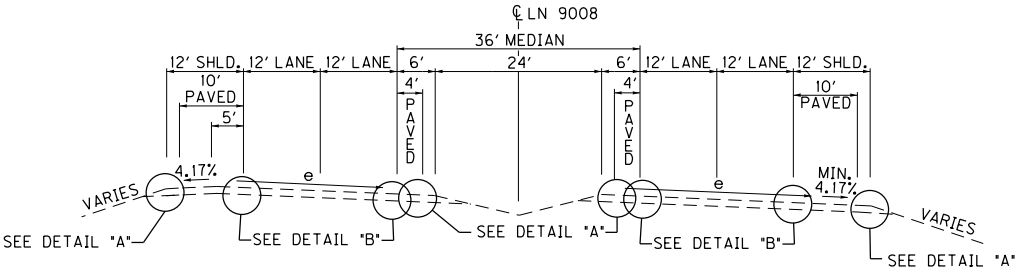
- 1. All quantities are carried over and included in the General Summary.
- 2. There shall be a separate 24622EC REPAIR bid for each failure location. This is for all earthwork, grading, clearing vegetation approved by Engineer, seeding & protection, and remove and reset of right of way fence at Beaver Creek Road for Failure No. 1.
- 3. Drainage Failure 4, 5, and 9 are not part of this project due to apparent need to remove trees to access the locations and/or perform work needed.
- 4. Crushed Aggregate Size No. 23 is for filling in eroded out areas behind, to the side, and/or below headwall. This shall be as directed by the Engineer.
- 5. Crushed Aggregate Size No. 2 is for filling in and protection of fill slopes near each headwall. This shall be as directed by the Engineer.
- 6. Geotextile Fabric Class 1 is for eroded areas where crushed aggregate No. 2's and No. 23's are placed - and for the culvert pipes. This shall be as directed by the Engineer.
- 7. Channel Lining Class II and III is for paved ditch being removed and also for protection of outlet channel. Channel width, side slopes, and depth to protect to be as directed by Engineer.
- 8. Erosion Control Blanket is for graded areas not requiring stone protection. This shall be as directed by the Engineer.
- 9. Once pipe is removed the Engineer will determine whether or not headwall needs to be removed and replaced or if can be removed and reset.
- 10. It is anticipated that outside shoulder will need to be repaired after work for this failure is completed. Payment will be allowed and is included on schedule and summary of pavement repairs.

COUNTY OF	ITEM NO.
BARREN / METCALFE	3-20004.00 3-20013.00

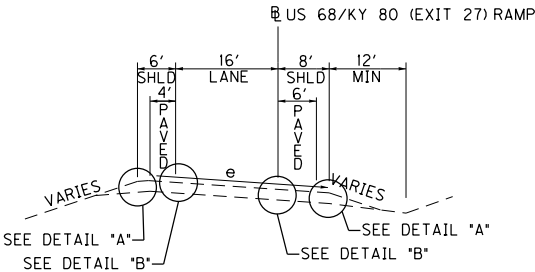
# EXISTING TYPICAL SECTIONS



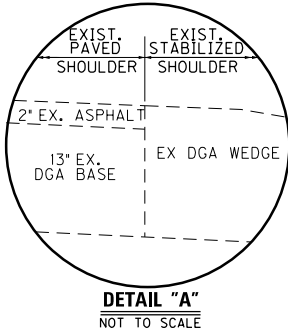
LN 9008 NORMAL CUT/FILL SECTION



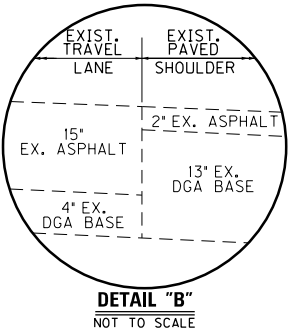
LN 9008 SUPERELEVATED CUT/FILL SECTION



US 68/KY 80 (EXIT 27)  
RIGHT SUPERELEVATED SECTION



DETAIL "A"  
NOT TO SCALE



DETAIL "B"  
NOT TO SCALE

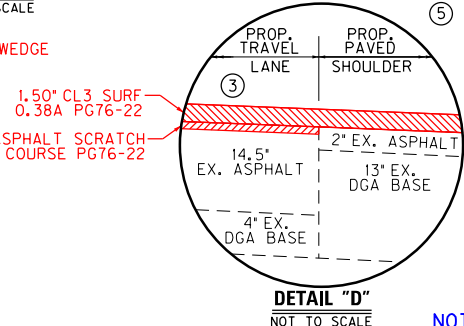
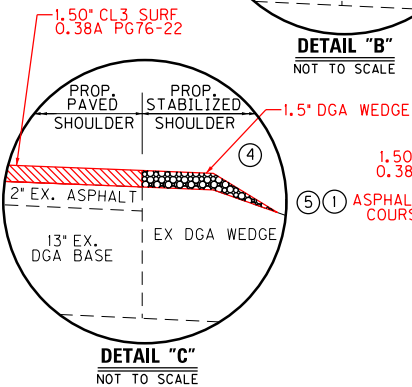
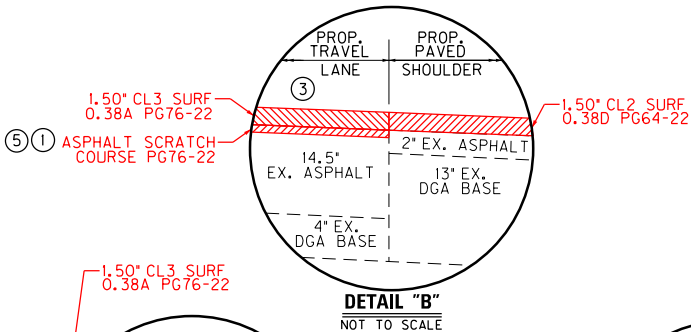
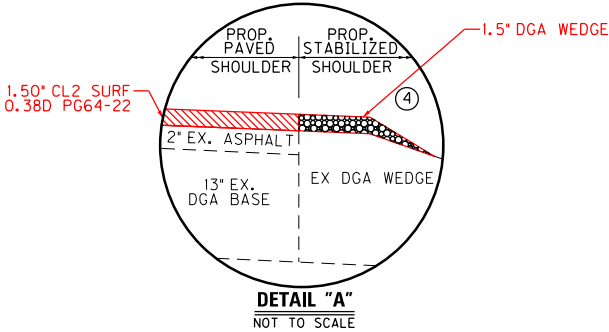
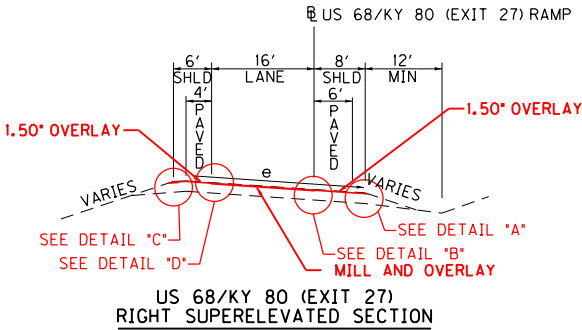
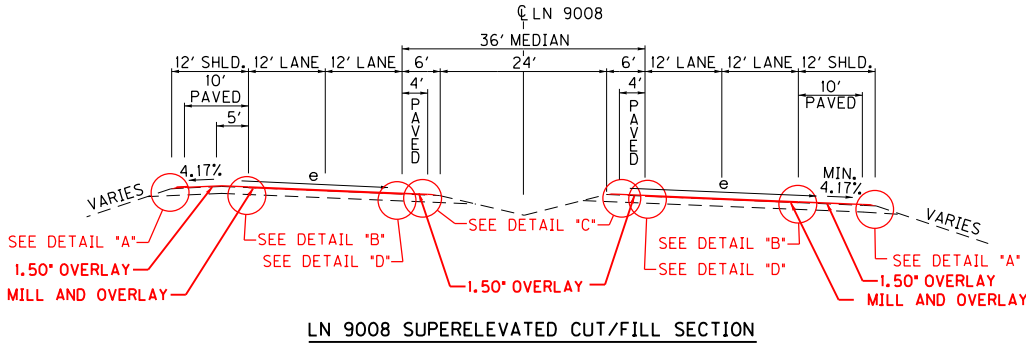
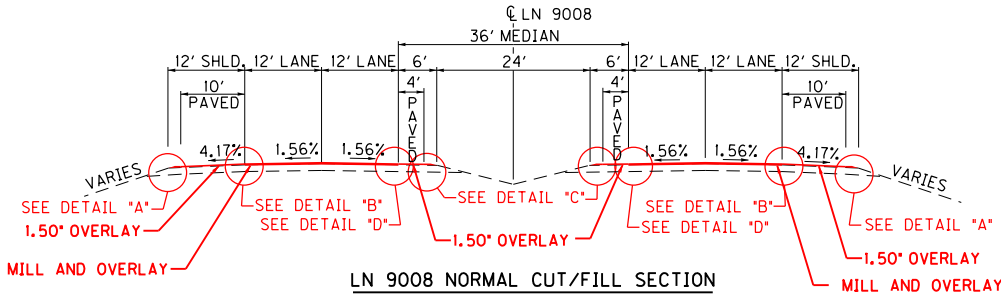
NOTE:

- 1. CROSS SLOPES BASED ON RECORD PLANS.

COUNTY OF	ITEM NO.
BARREN / METCALFE	3-20004.00 3-20013.00

# PROPOSED TYPICAL SECTIONS

MP 20.100 TO MP 29.285 & MP 30.232 TO MP 36.159



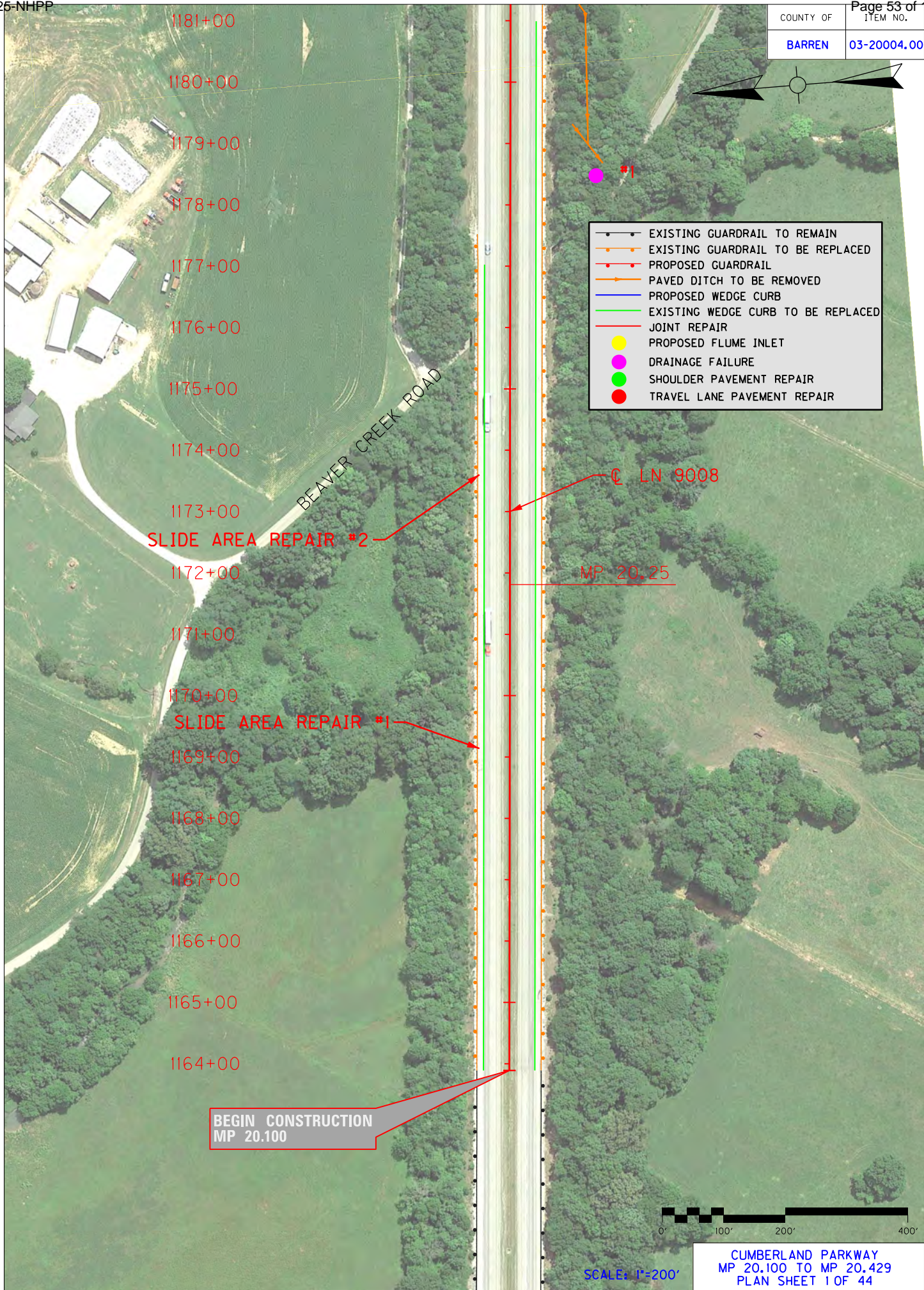
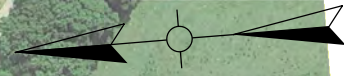
- NOTES:
- ASPHALT SCRATCH COURSE PG76-22 TO BE USED FOR AREAS THAT EXPERIENCE SCABBING AFTER PAVEMENT HAS BEEN MILLED.
  - JOINT ADHESIVE SHALL BE APPLIED BETWEEN LONGITUDINAL PAVEMENT JOINTS.
  - THE TRAVEL LANES SHALL BE MILLED 0.50 INCHES BEFORE PLACING ASPHALT SURFACE COURSES.
  - ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FEET DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:  
ASPHALT SEAL COAT @ 2.40 LBS. /SQ. YD.  
ASPHALT SEAL AGGREGATE @ 20 LBS. /SQ. YD.
  - BEFORE PLACING PROPOSED ASPHALT THE TRAVEL LANES SHALL BE MILLED 0.50 INCHES.

NOT TO SCALE

PROPOSED TYPICAL SECTIONS  
PAGE 1 OF 1



COUNTY OF	ITEM NO.
BARREN	03-20004.00

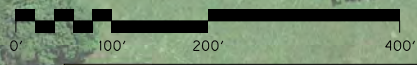


- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

BEGIN CONSTRUCTION  
MP 20.100

LN 9008

MP 20.25

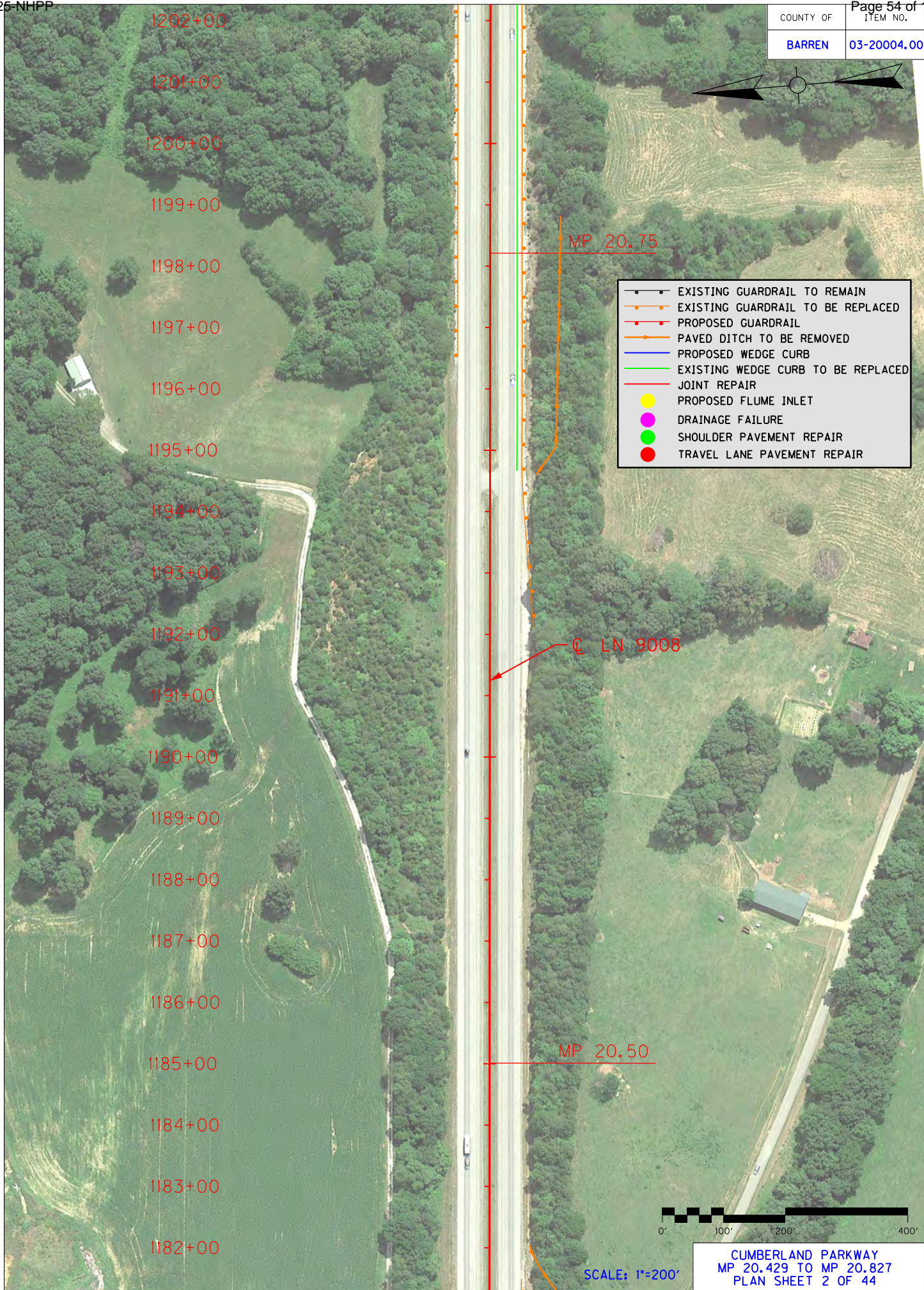


SCALE: 1"=200'

CUMBERLAND PARKWAY  
MP 20.100 TO MP 20.429  
PLAN SHEET 1 OF 44



COUNTY OF	ITEM NO.
BARREN	03-20004.00

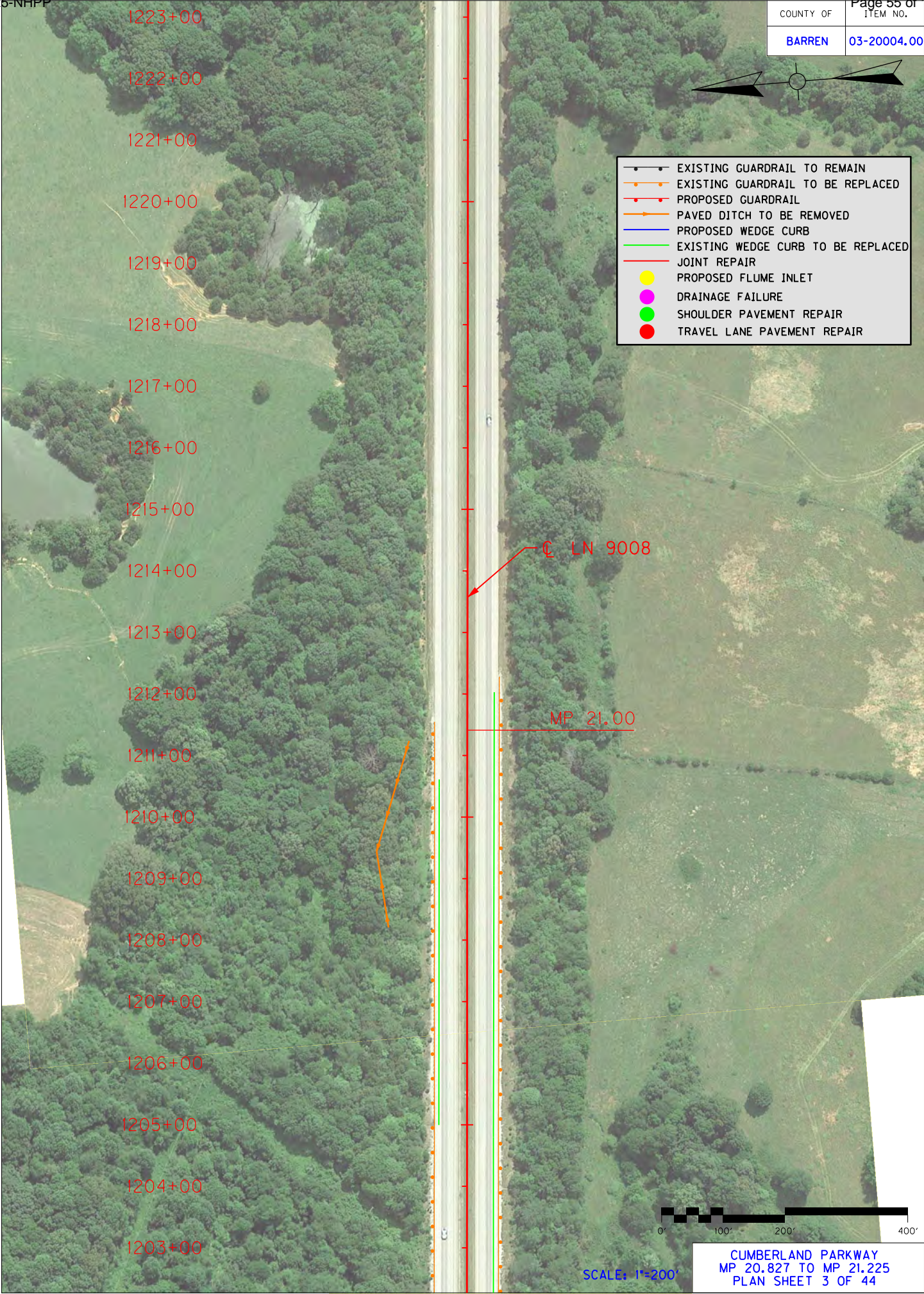




COUNTY OF	ITEM NO.
BARREN	03-20004.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

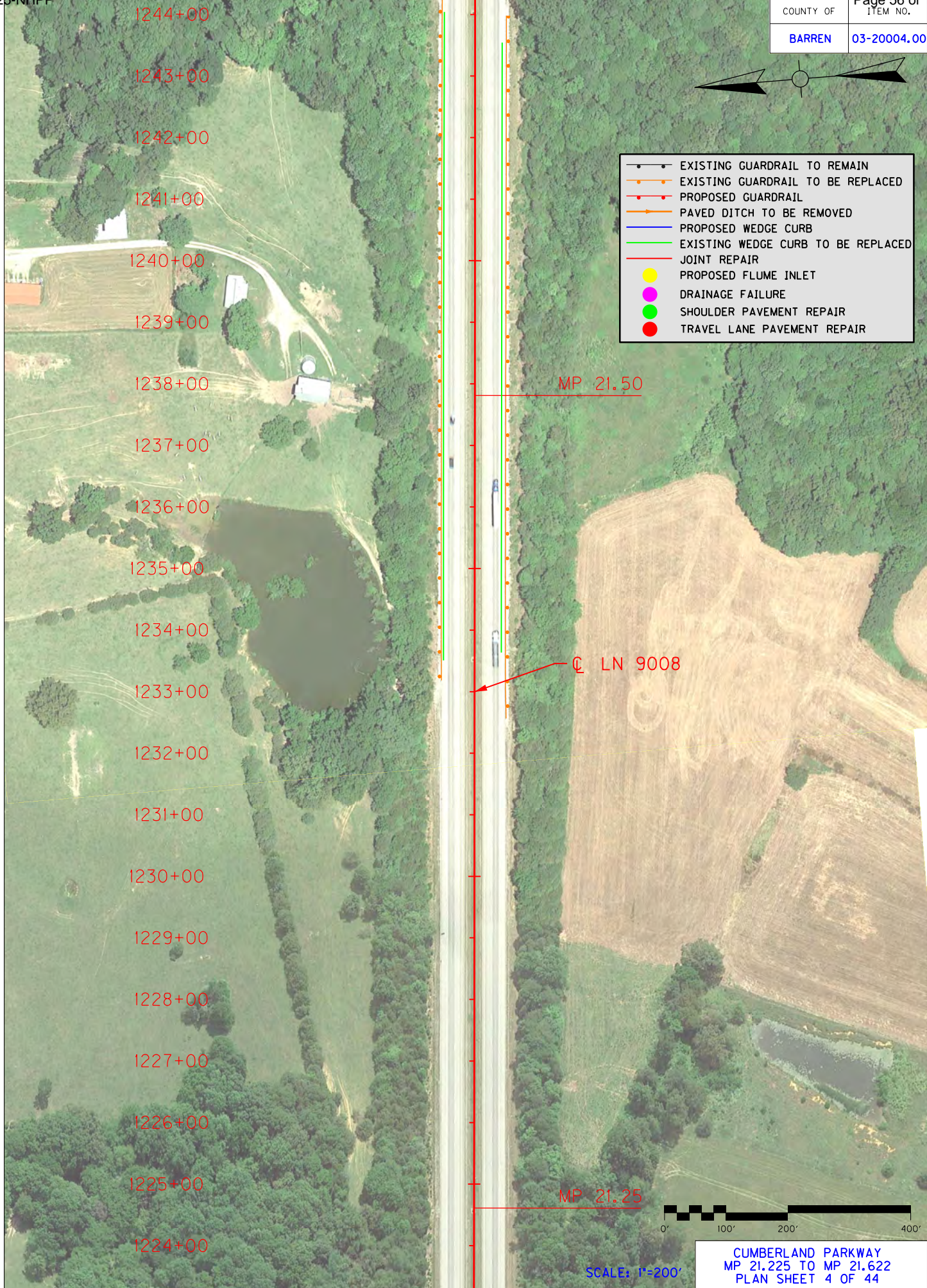




COUNTY OF	ITEM NO.
BARREN	03-20004.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR



MP 21.50

LN 9008

MP 21.25

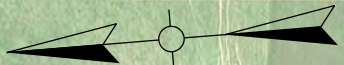


SCALE: 1"=200'

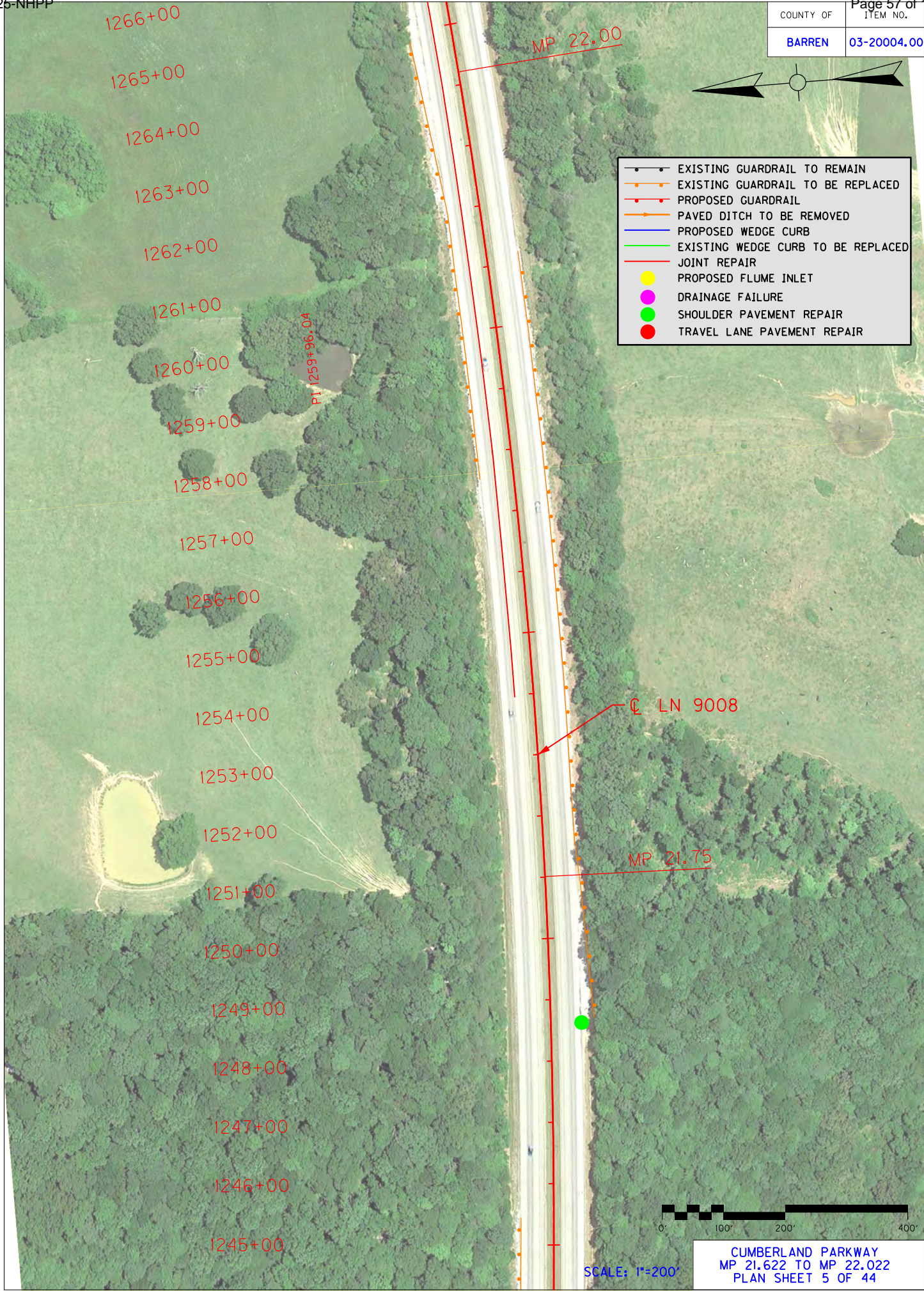
CUMBERLAND PARKWAY  
MP 21.225 TO MP 21.622  
PLAN SHEET 4 OF 44



COUNTY OF	ITEM NO.
BARREN	03-20004.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR



SCALE: 1"=200'

CUMBERLAND PARKWAY  
MP 21.622 TO MP 22.022  
PLAN SHEET 5 OF 44



COUNTY OF	ITEM NO.
BARREN / METCALFE	03-20004.00 03-20013.00

Google Earth



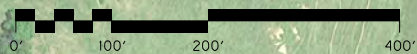
METCALFE COUNTY  
BARREN COUNTY

- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

1285+00  
1284+00  
1283+00  
1282+00  
1281+00  
1280+00  
1279+00  
1278+00  
1277+00  
1276+00  
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1267+00  
1266+00  
1265+00

MP 22.25

Q LN 9008

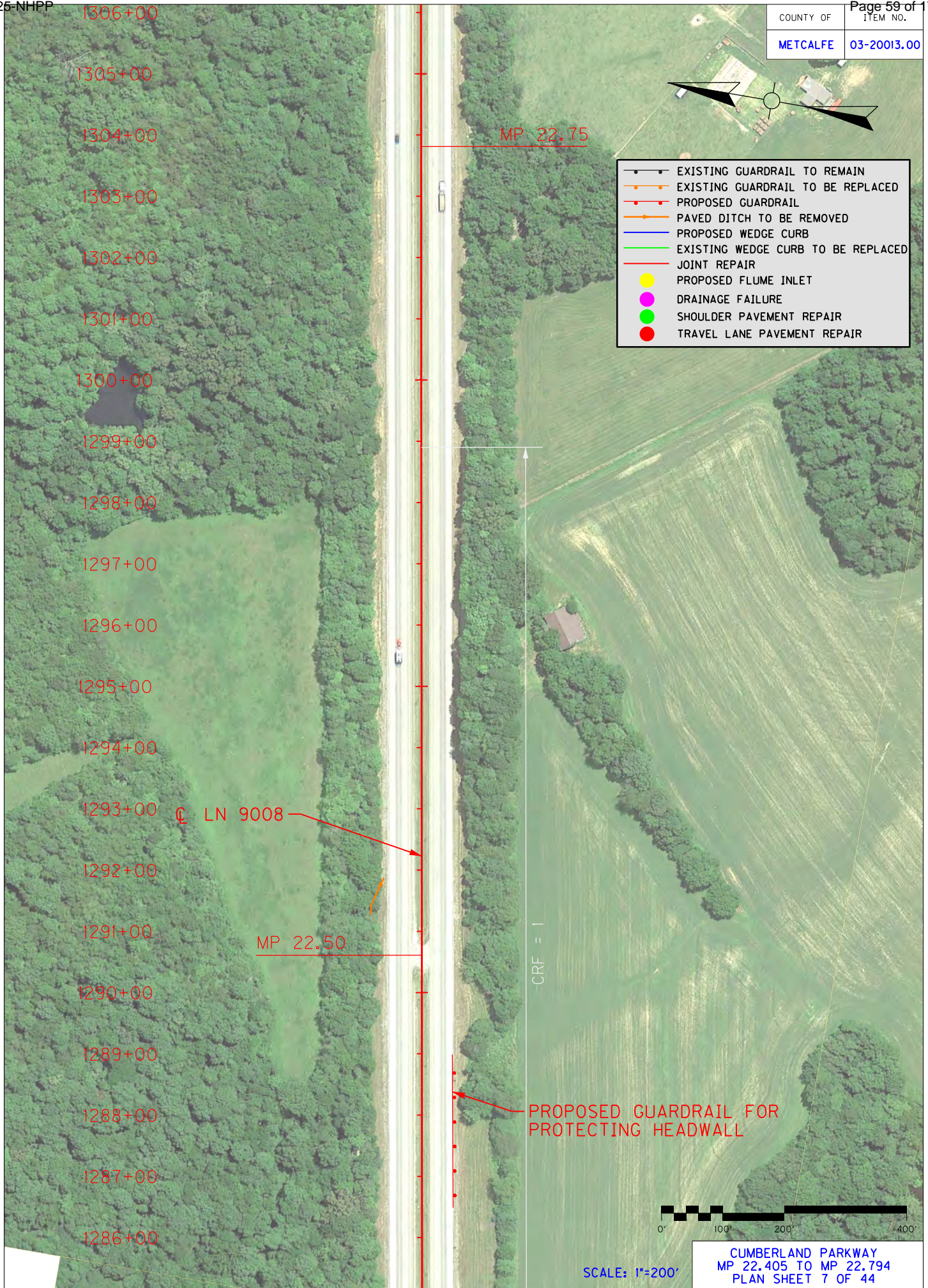


SCALE: 1"=200'

CUMBERLAND PARKWAY  
MP 22.022 TO MP 22.405  
PLAN SHEET 6 OF 44



COUNTY OF	ITEM NO.
METCALFE	03-20013.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

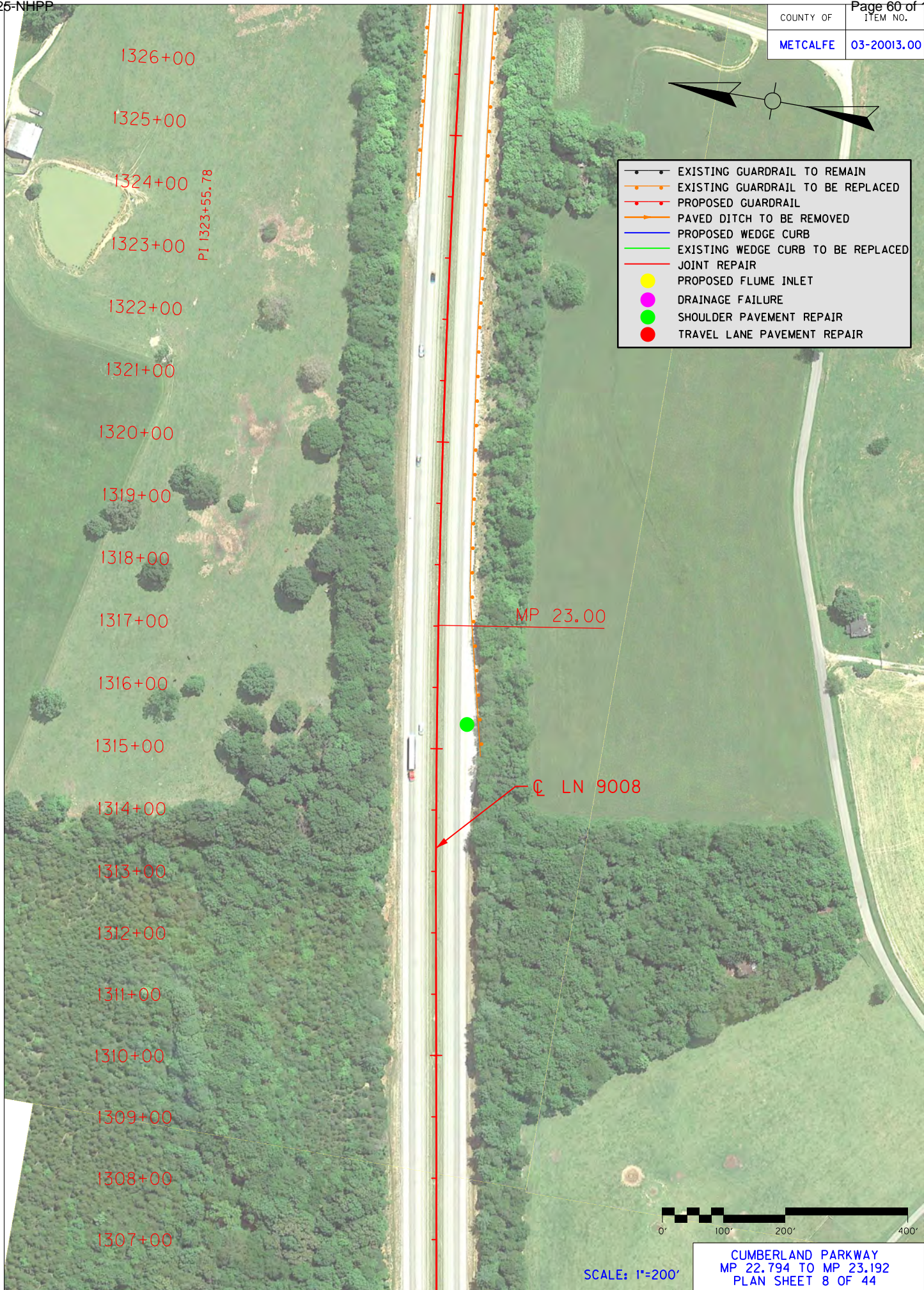


SCALE: 1"=200'

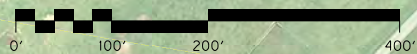
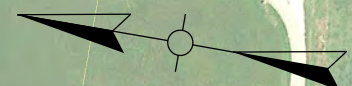
CUMBERLAND PARKWAY  
MP 22.405 TO MP 22.794  
PLAN SHEET 7 OF 44



COUNTY OF	ITEM NO.
METCALFE	03-20013.00



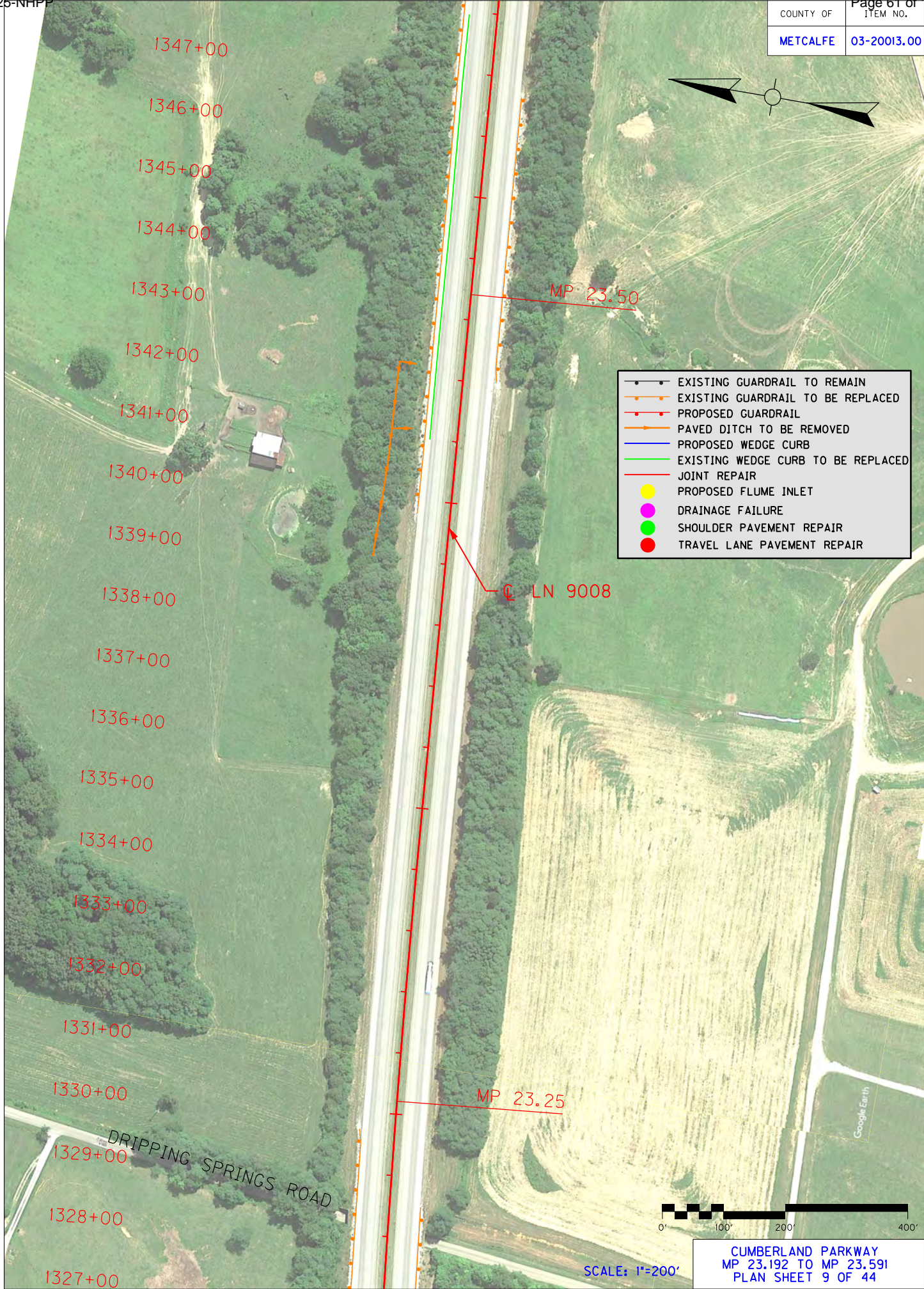
- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR



SCALE: 1"=200'  
CUMBERLAND PARKWAY  
MP 22.794 TO MP 23.192  
PLAN SHEET 8 OF 44



COUNTY OF	ITEM NO.
METCALFE	03-20013.00



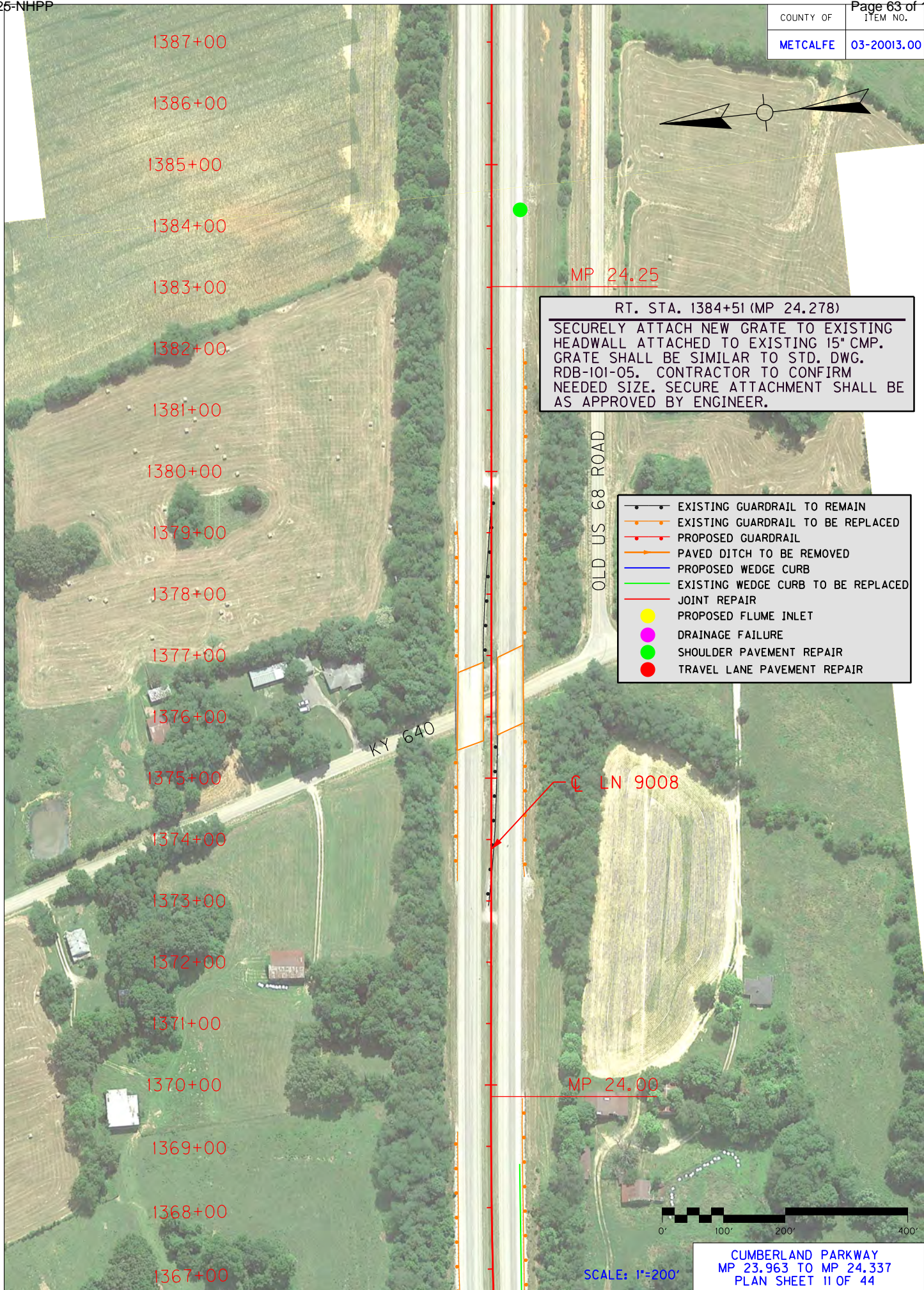


- MP 23.75

CUMBERLAND PARKWAY  
MP 23.591 TO MP 23.963  
PLAN SHEET 10 OF 44



COUNTY OF	ITEM NO.
METCALFE	03-20013.00



RT. STA. 1384+51 (MP 24.278)

SECURELY ATTACH NEW GRATE TO EXISTING HEADWALL ATTACHED TO EXISTING 15" CMP. GRATE SHALL BE SIMILAR TO STD. DWG. RDB-101-05. CONTRACTOR TO CONFIRM NEEDED SIZE. SECURE ATTACHMENT SHALL BE AS APPROVED BY ENGINEER.

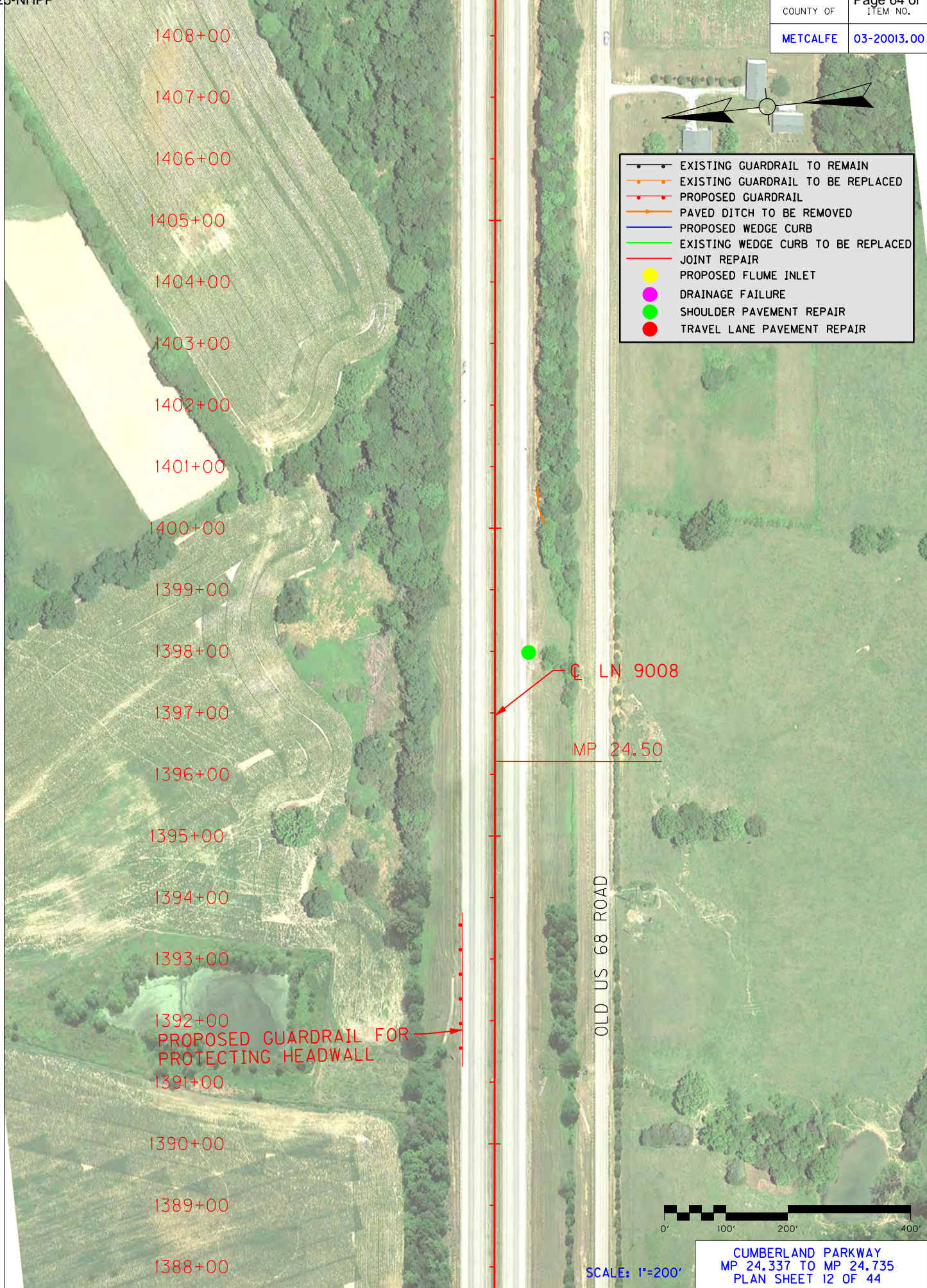
- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR



CUMBERLAND PARKWAY  
MP 23.963 TO MP 24.337  
PLAN SHEET 11 OF 44

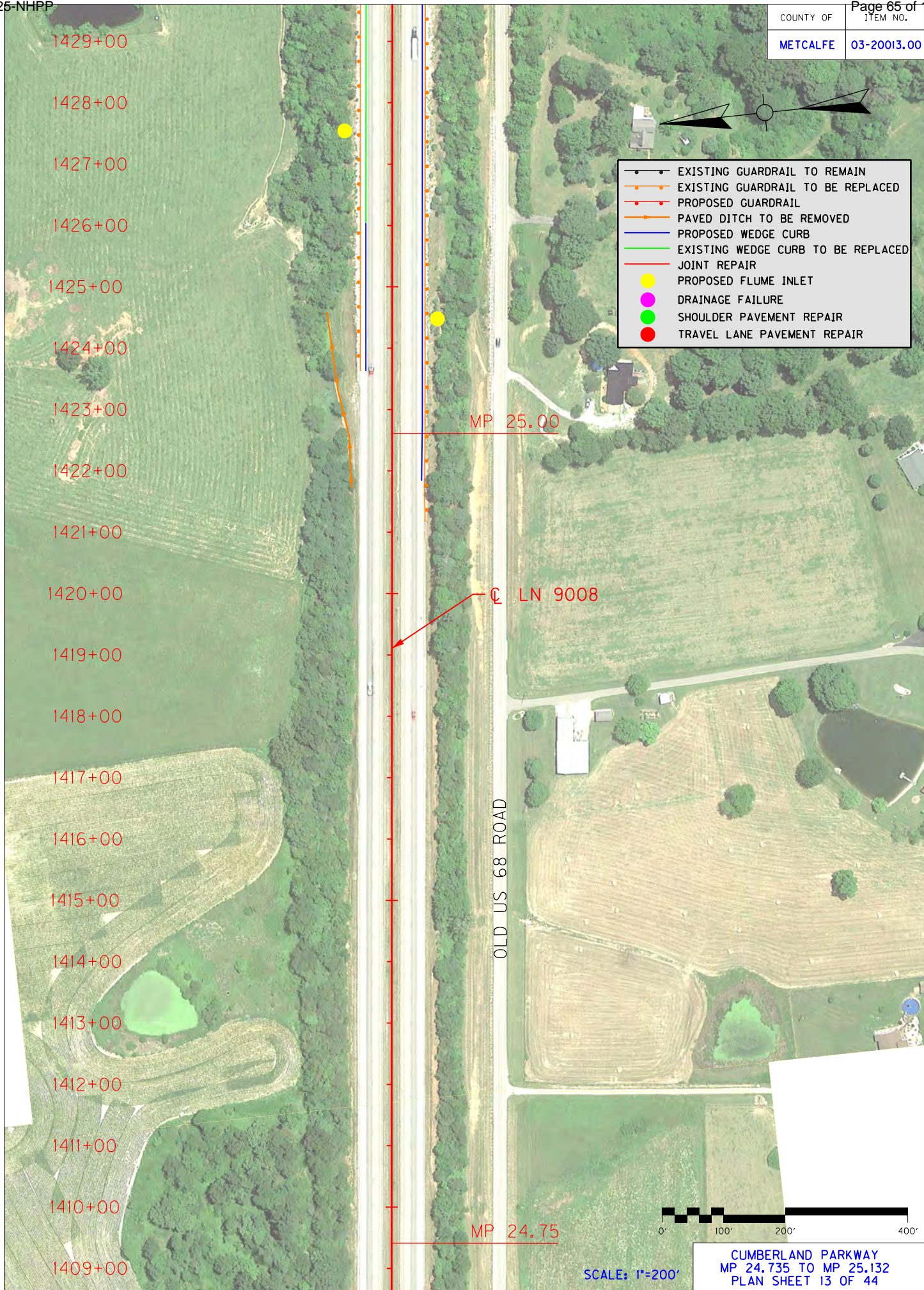


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



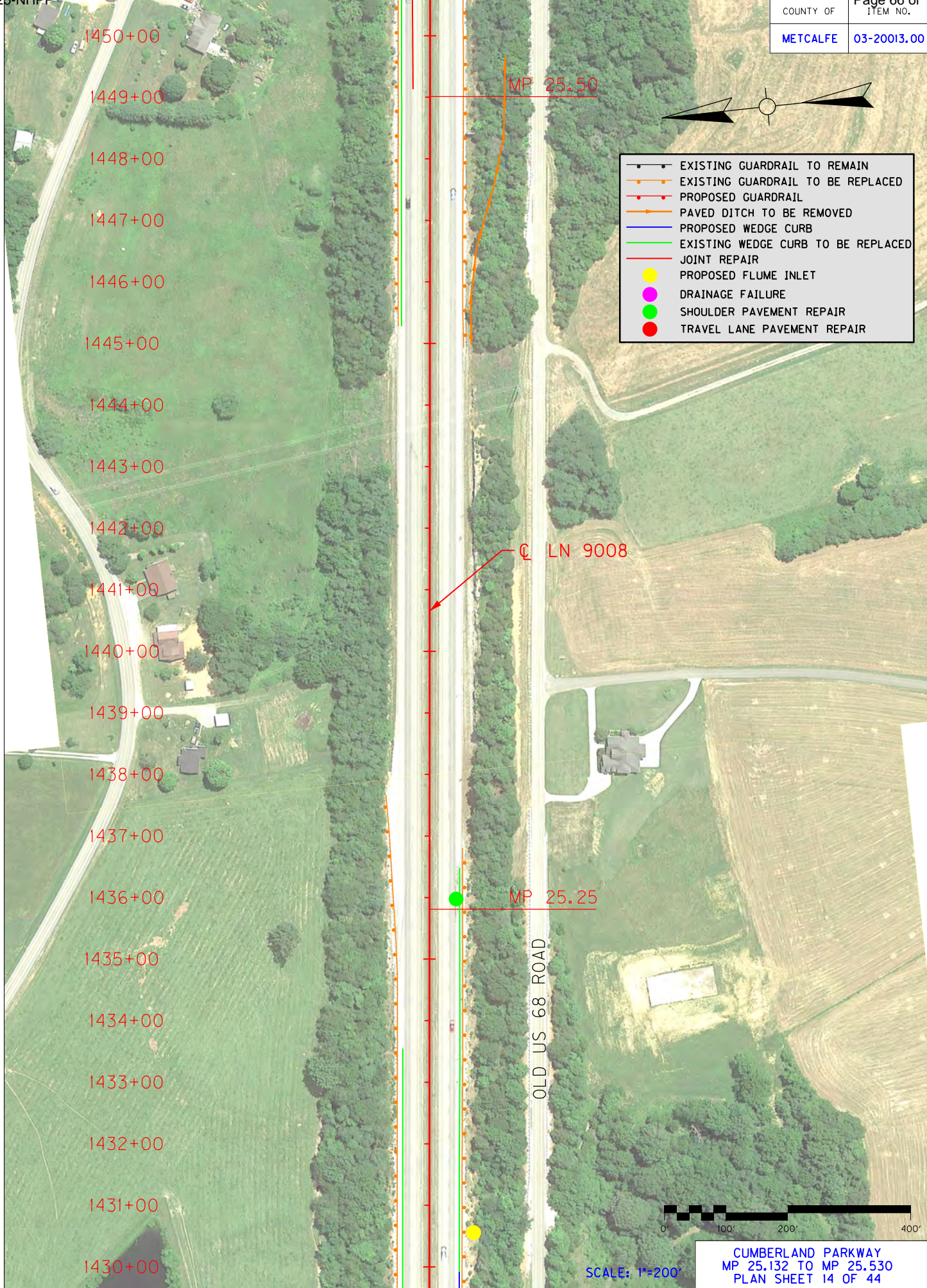


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



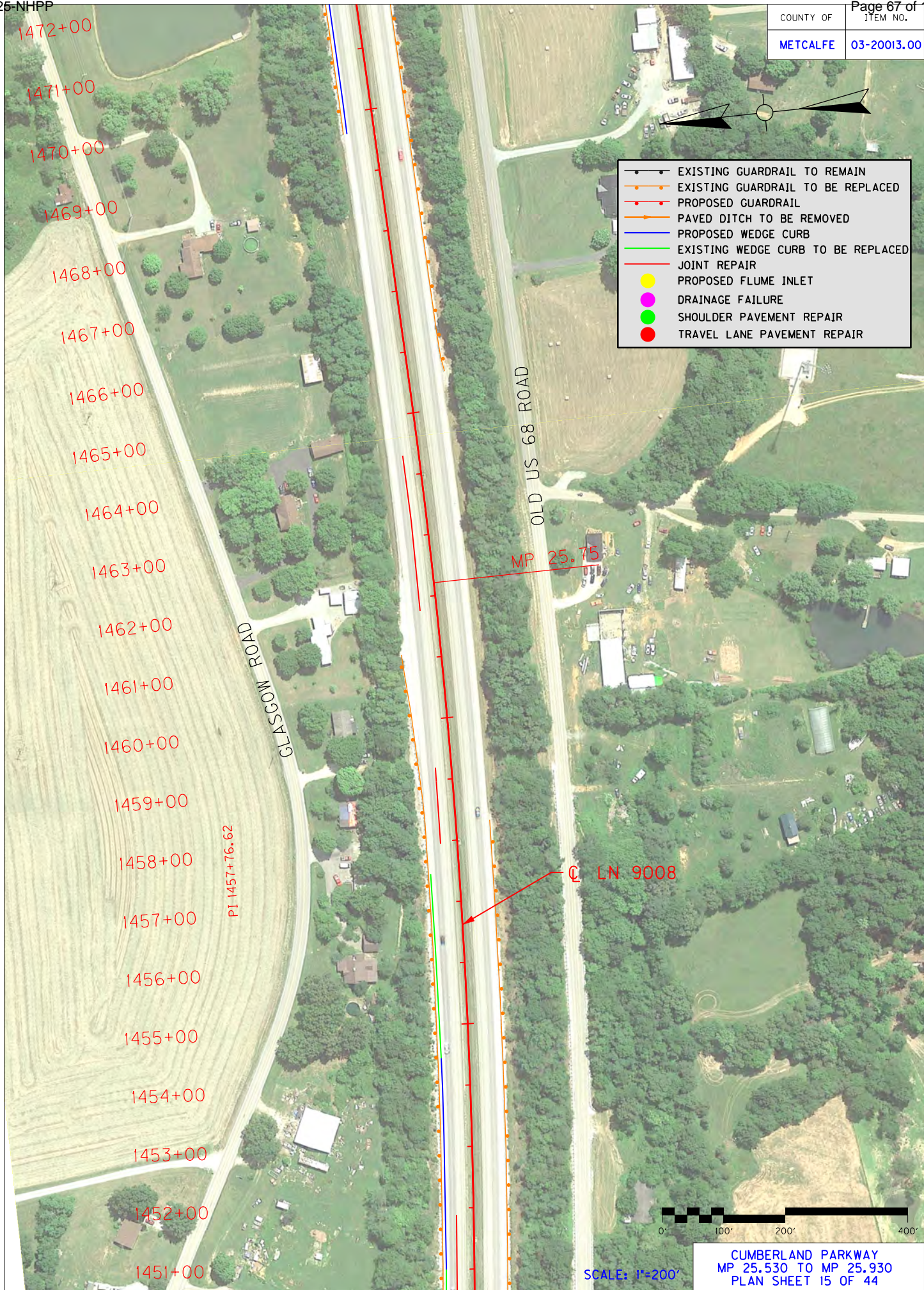


COUNTY OF	ITEM NO.
METCALFE	03-20013.00

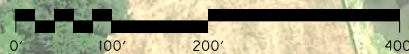




COUNTY OF	ITEM NO.
METCALFE	03-20013.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

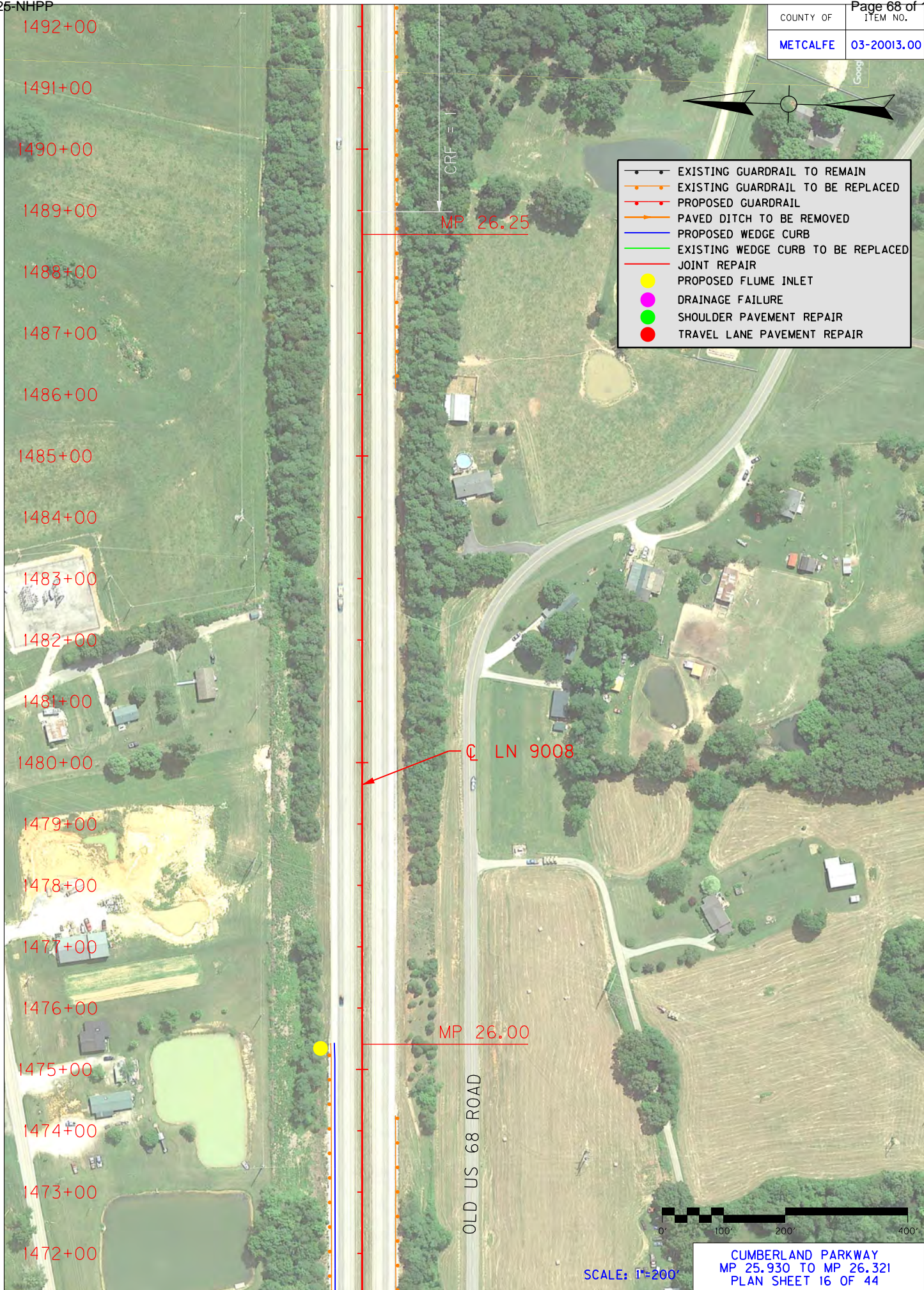


SCALE: 1"=200'

CUMBERLAND PARKWAY  
MP 25.530 TO MP 25.930  
PLAN SHEET 15 OF 44



COUNTY OF	ITEM NO.
METCALFE	03-20013.00





COUNTY OF	ITEM NO.
METCALFE	03-20013.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

1513+00  
1512+00  
1511+00  
1510+00  
1509+00  
1508+00  
1507+00  
1506+00  
1505+00  
1504+00  
1503+00  
1502+00  
1501+00  
1500+00  
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1495+00  
1494+00  
1493+00

LN 9008  
MP 26.50

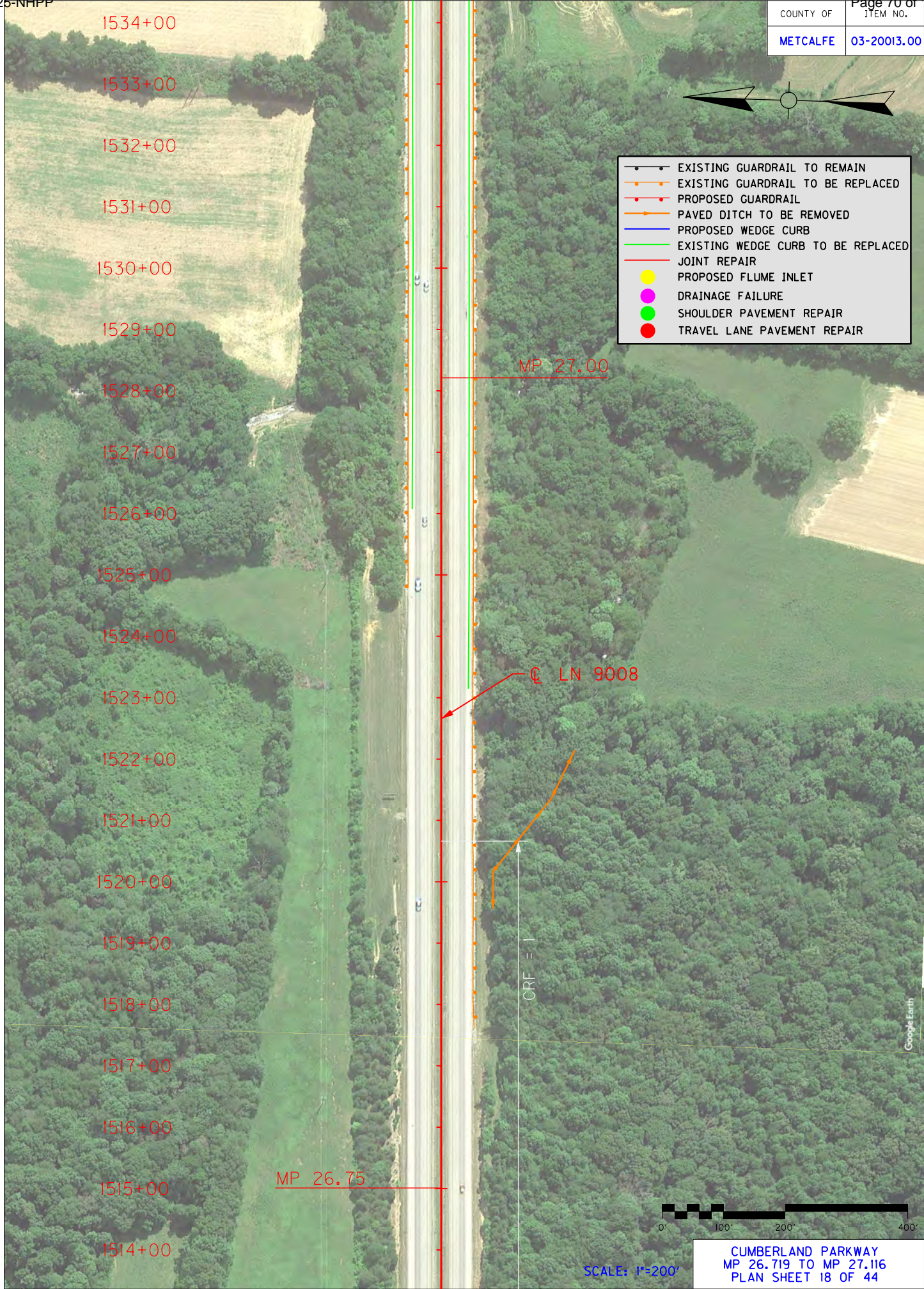
CRF 2.1

LT. STA. 1500+91 (MP 26.483)  
REMOVE EXISTING ELL HEADWALL.  
EXTEND THE EXISTING 18' CMP ON THE SAME SLOPE AS THE EXISTING PIPE 4 FEET  
CONSTRUCT 1 SLOPED BOX OUTLET TYPE 1 AT 0 DEGREE SKEW.  
CONSTRUCT 5 TONS CHANNEL LINING CLASS II AS DIRECTED BY ENGINEER.  
INCIDENTAL TO CONSTRUCTION OF THE PIPE SHALL BE ALL NEEDED GRADE WORK AND SEEDING AND PROTECTION.  
PAYMENT WILL BE ALLOWED FOR EROSION CONTROL BLANKET.



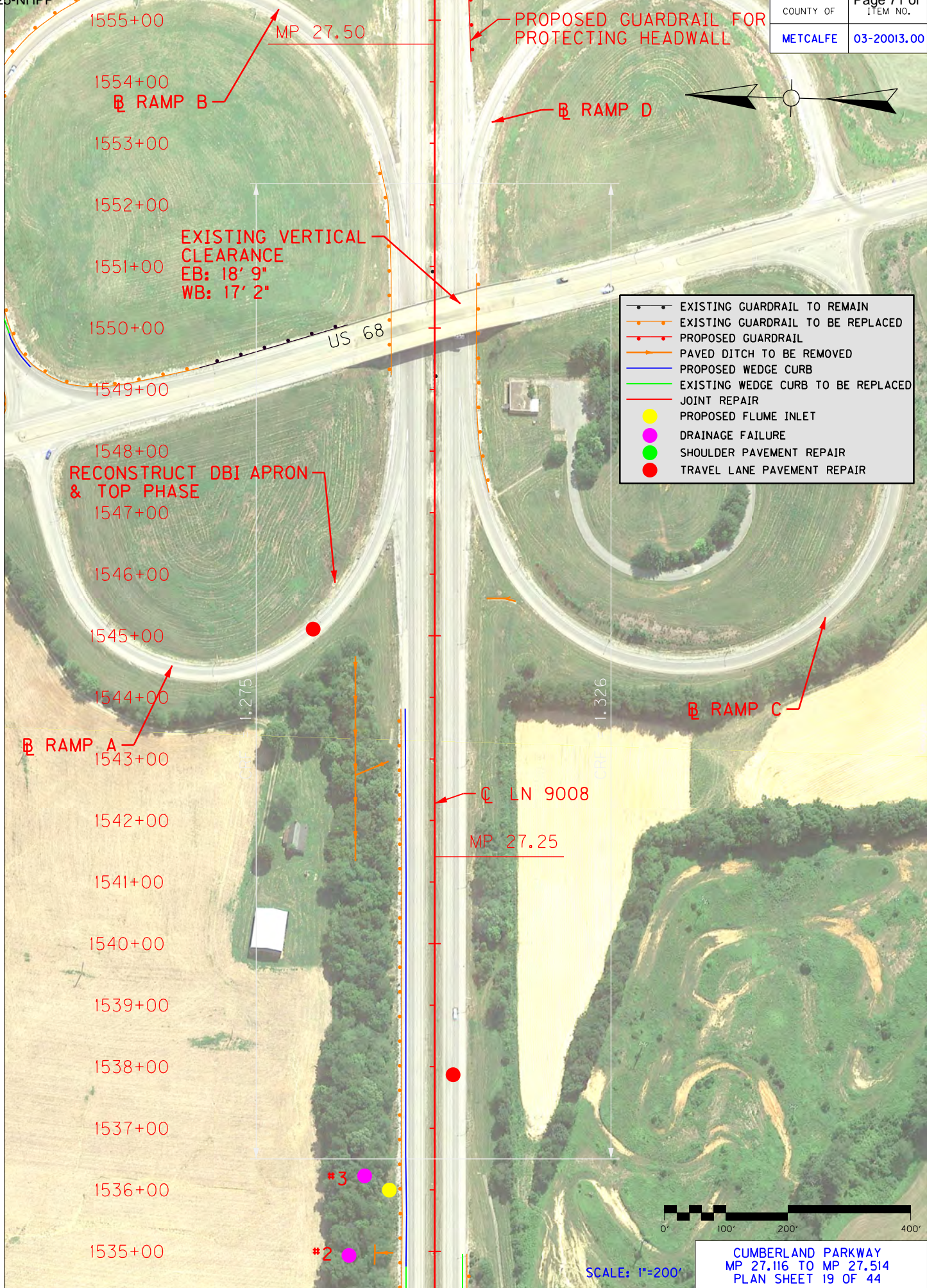


COUNTY OF	ITEM NO.
METCALFE	03-20013.00





COUNTY OF	ITEM NO.
METCALFE	03-20013.00





COUNTY OF	ITEM NO.
METCALFE	03-20013.00



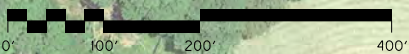
- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

1576+00  
1575+00  
1574+00  
1573+00  
1572+00  
1571+00  
1570+00  
1569+00  
1568+00  
1567+00  
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1565+00  
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1559+00  
1558+00  
1557+00  
1556+00

MP 27.75

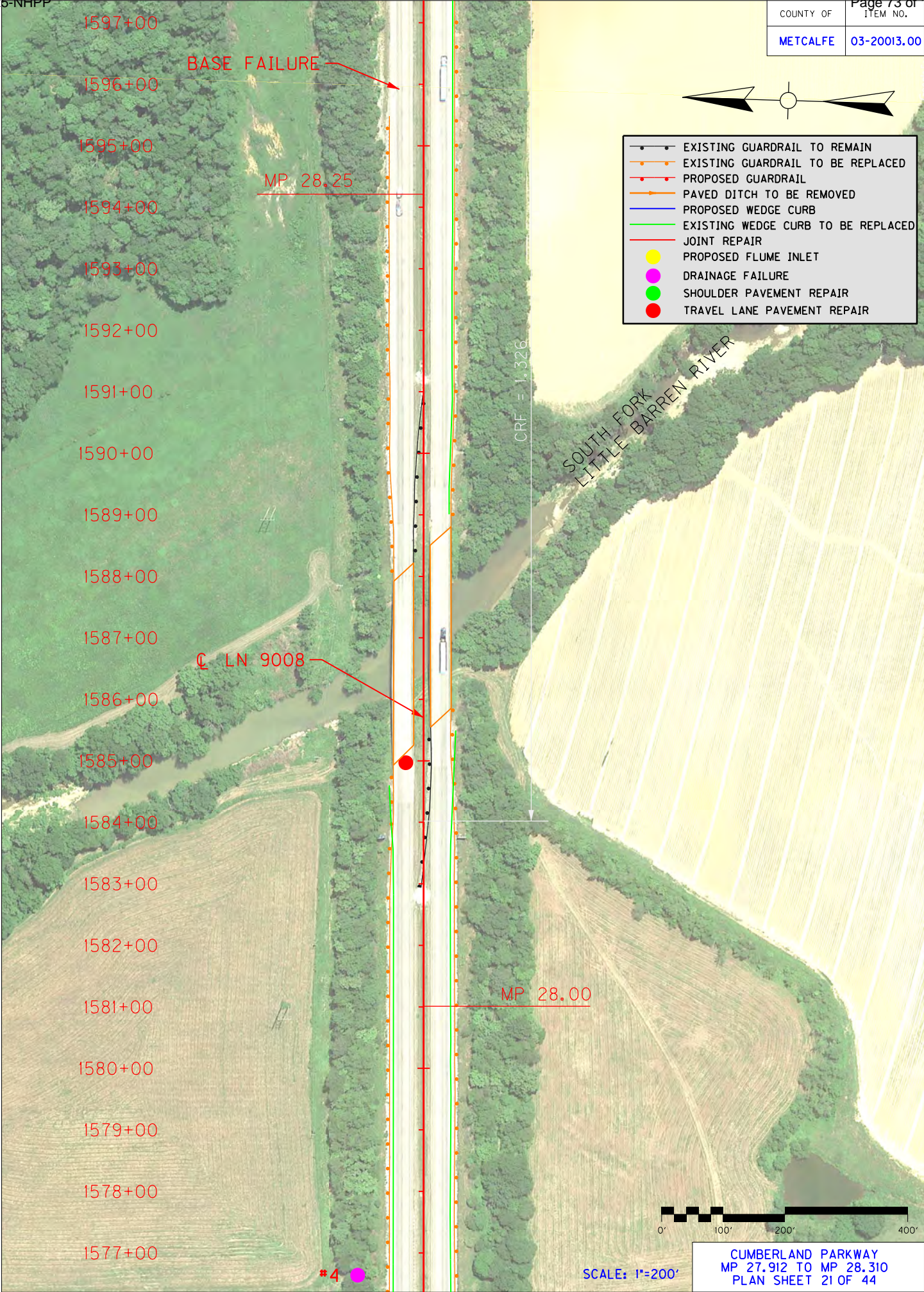
LN 9008

PROPOSED GUARDRAIL FOR  
PROTECTING HEADWALL



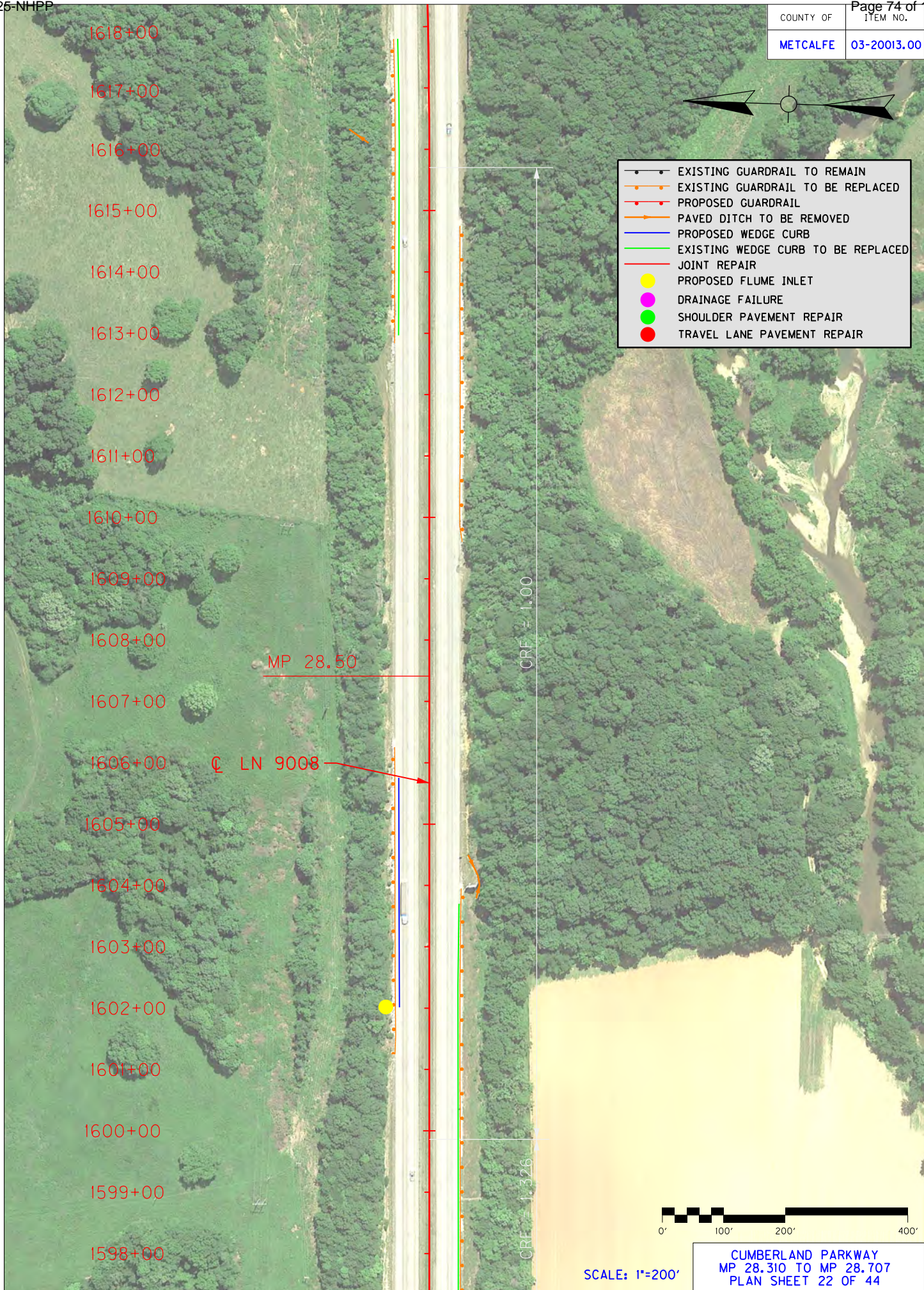


COUNTY OF	ITEM NO.
METCALFE	03-20013.00

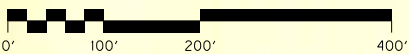




COUNTY OF	ITEM NO.
METCALFE	03-20013.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR



SCALE: 1"=200'

CUMBERLAND PARKWAY  
MP 28.310 TO MP 28.707  
PLAN SHEET 22 OF 44

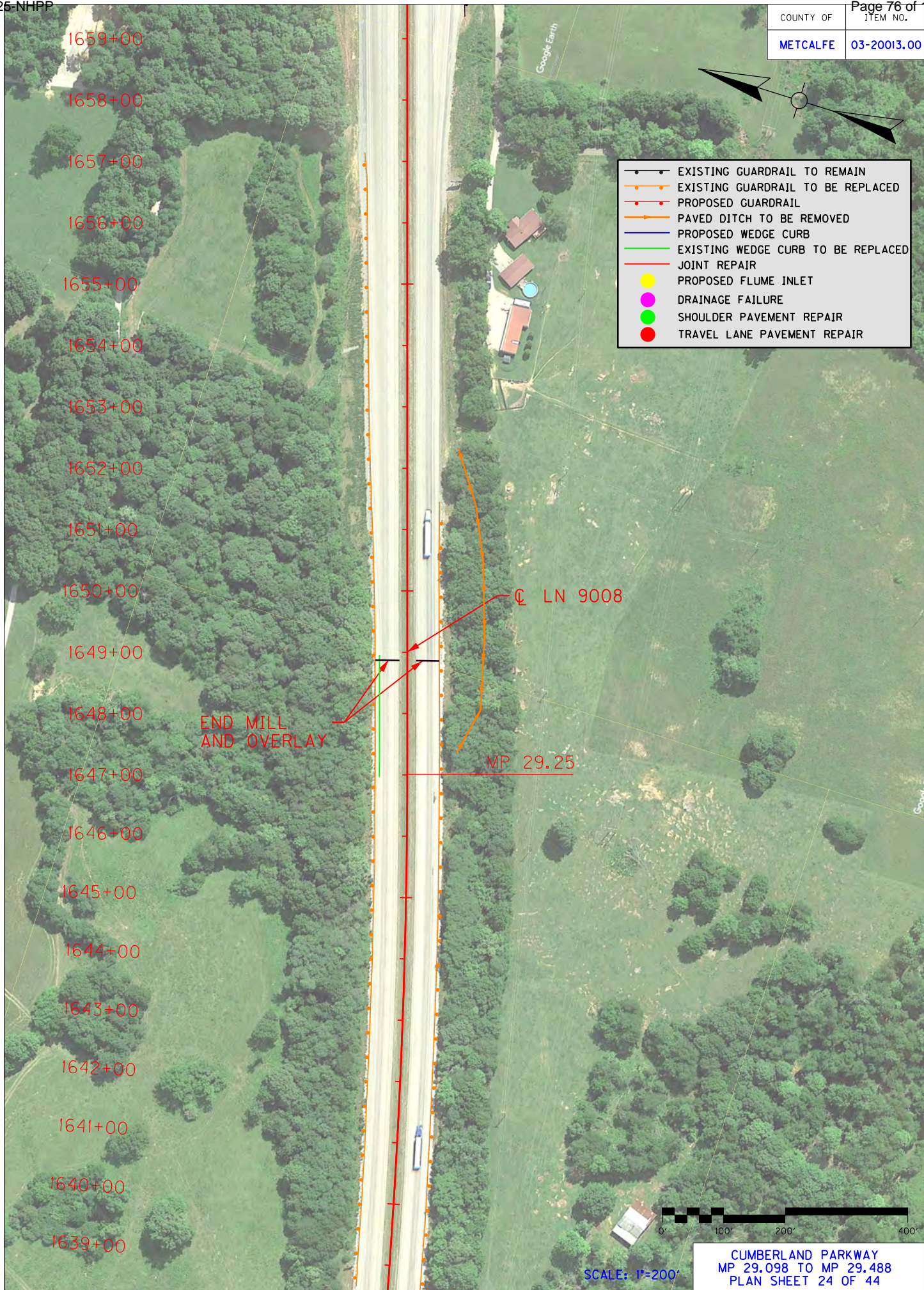


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



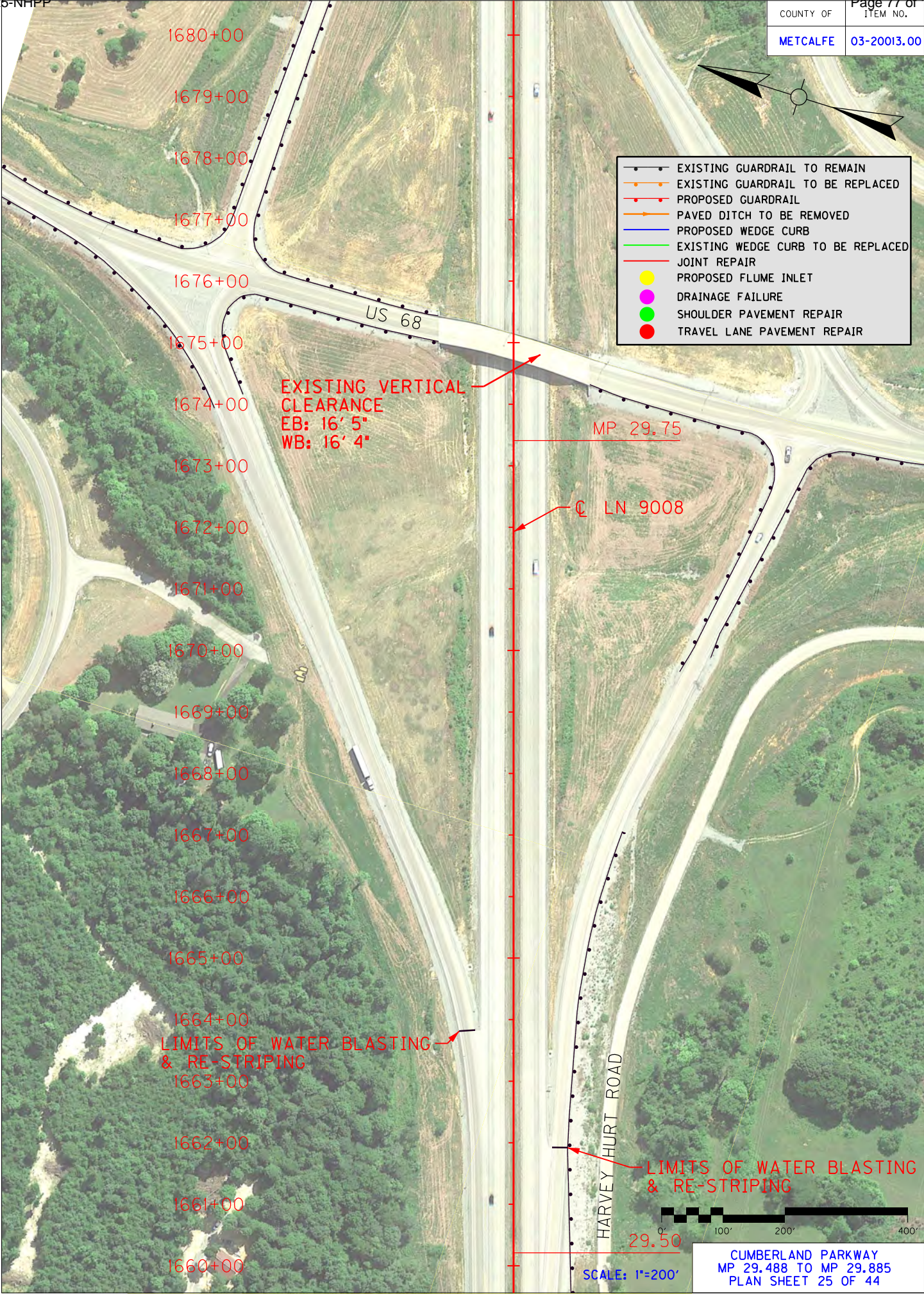


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



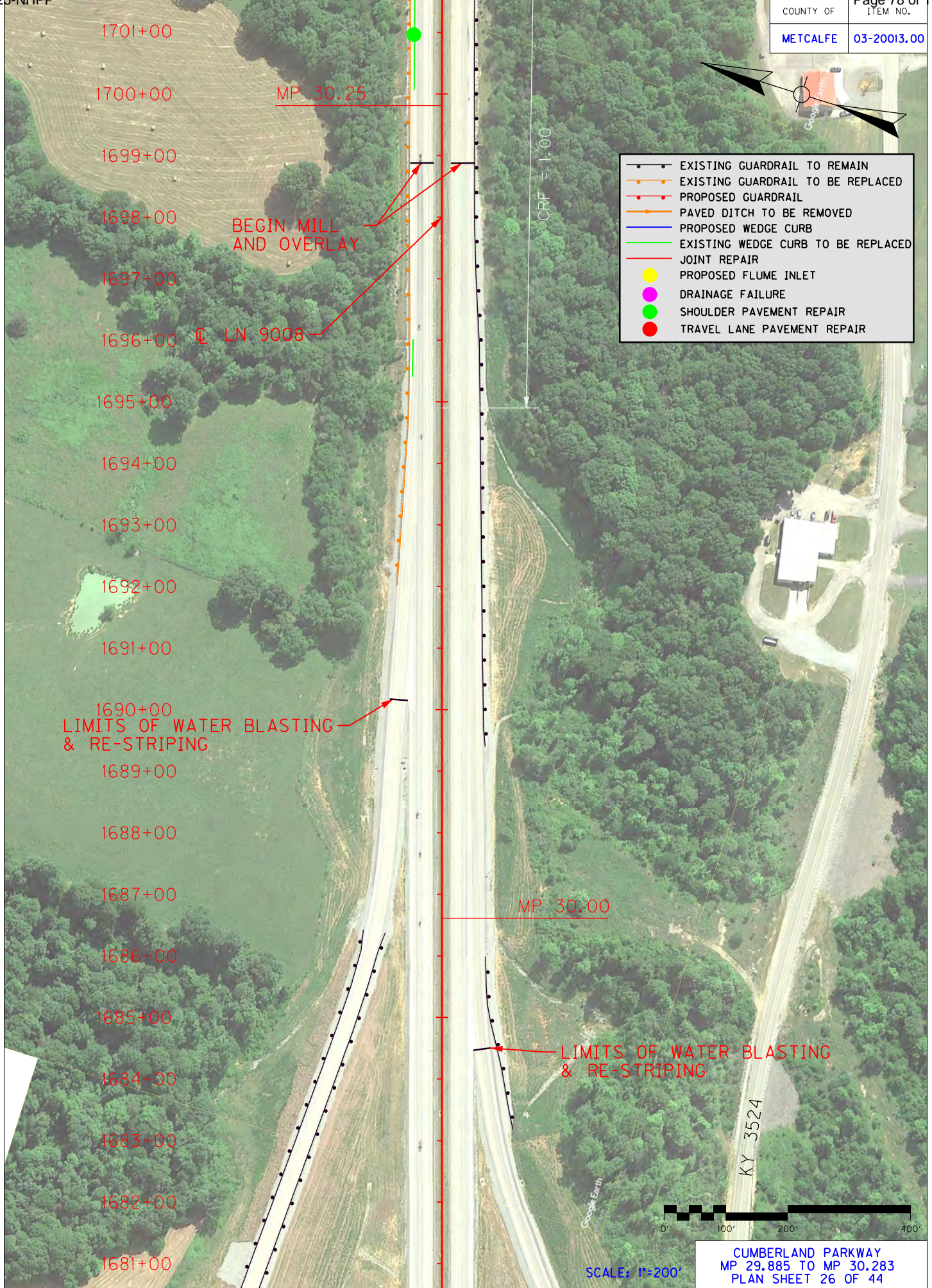


COUNTY OF	ITEM NO.
METCALFE	03-20013.00





COUNTY OF	ITEM NO.
METCALFE	03-20013.00



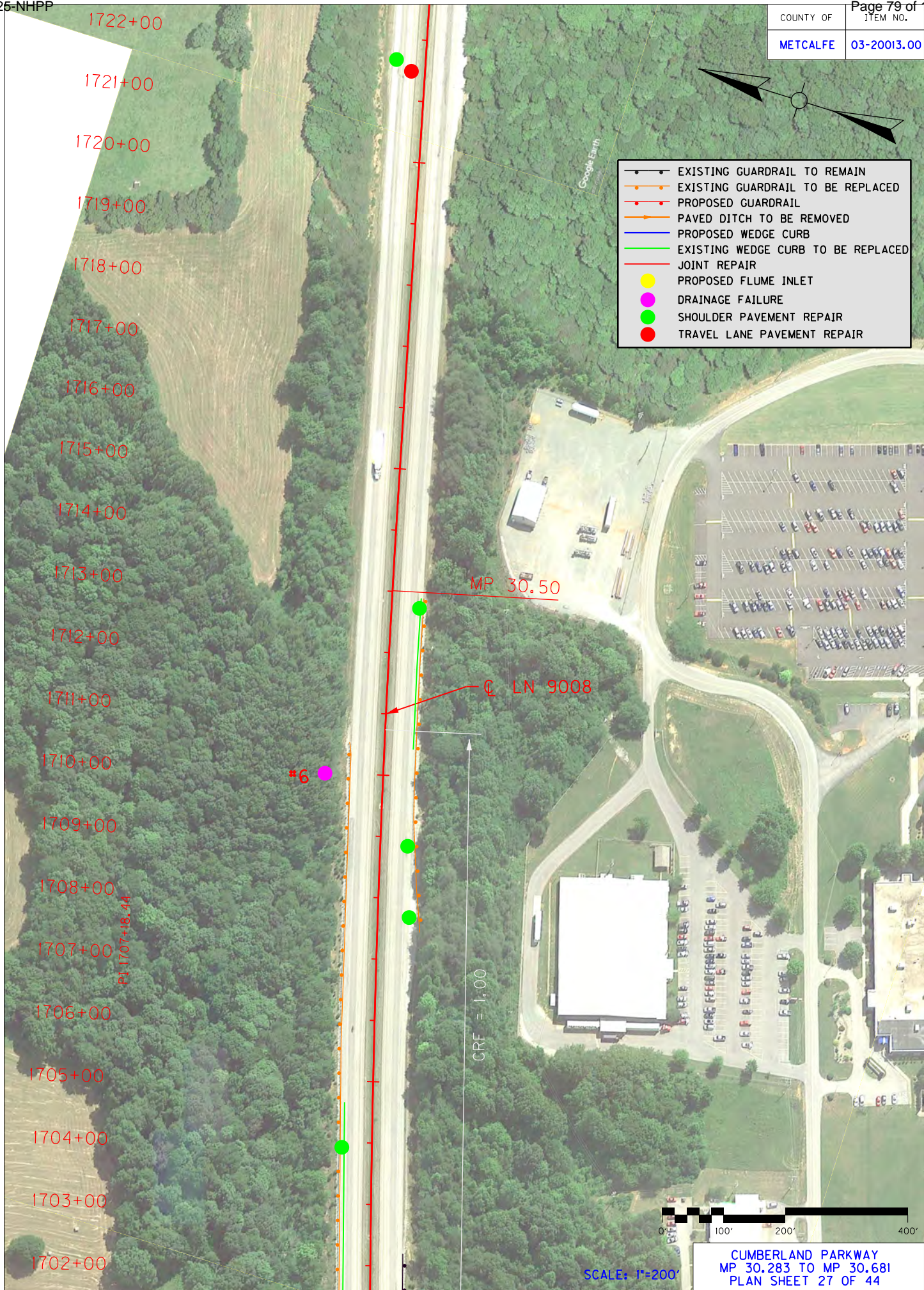
- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

CUMBERLAND PARKWAY  
MP 29.885 TO MP 30.283  
PLAN SHEET 26 OF 44

SCALE: 1"=200'



COUNTY OF	ITEM NO.
METCALFE	03-20013.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

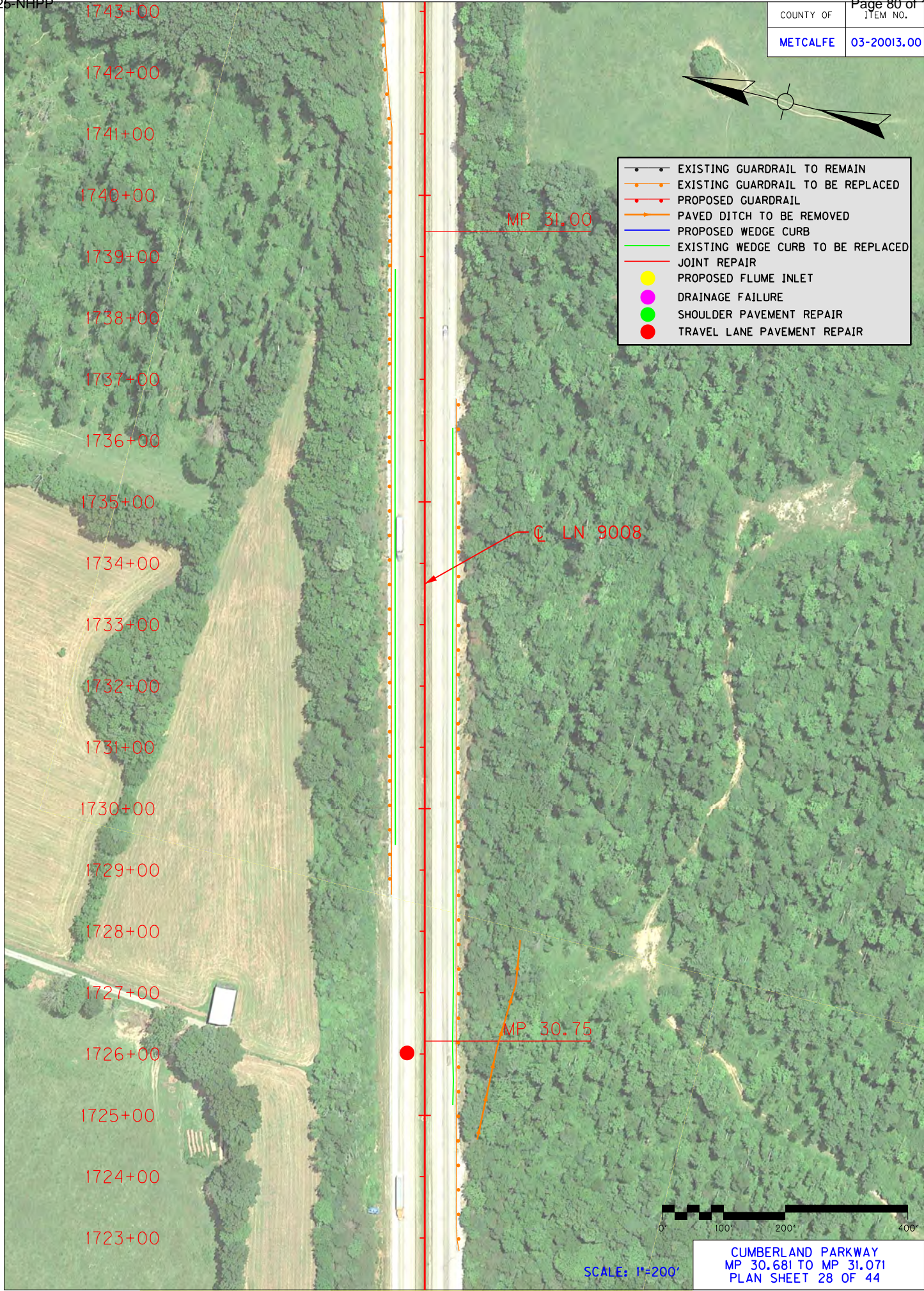


CUMBERLAND PARKWAY  
MP 30.283 TO MP 30.681  
PLAN SHEET 27 OF 44

SCALE: 1"=200'

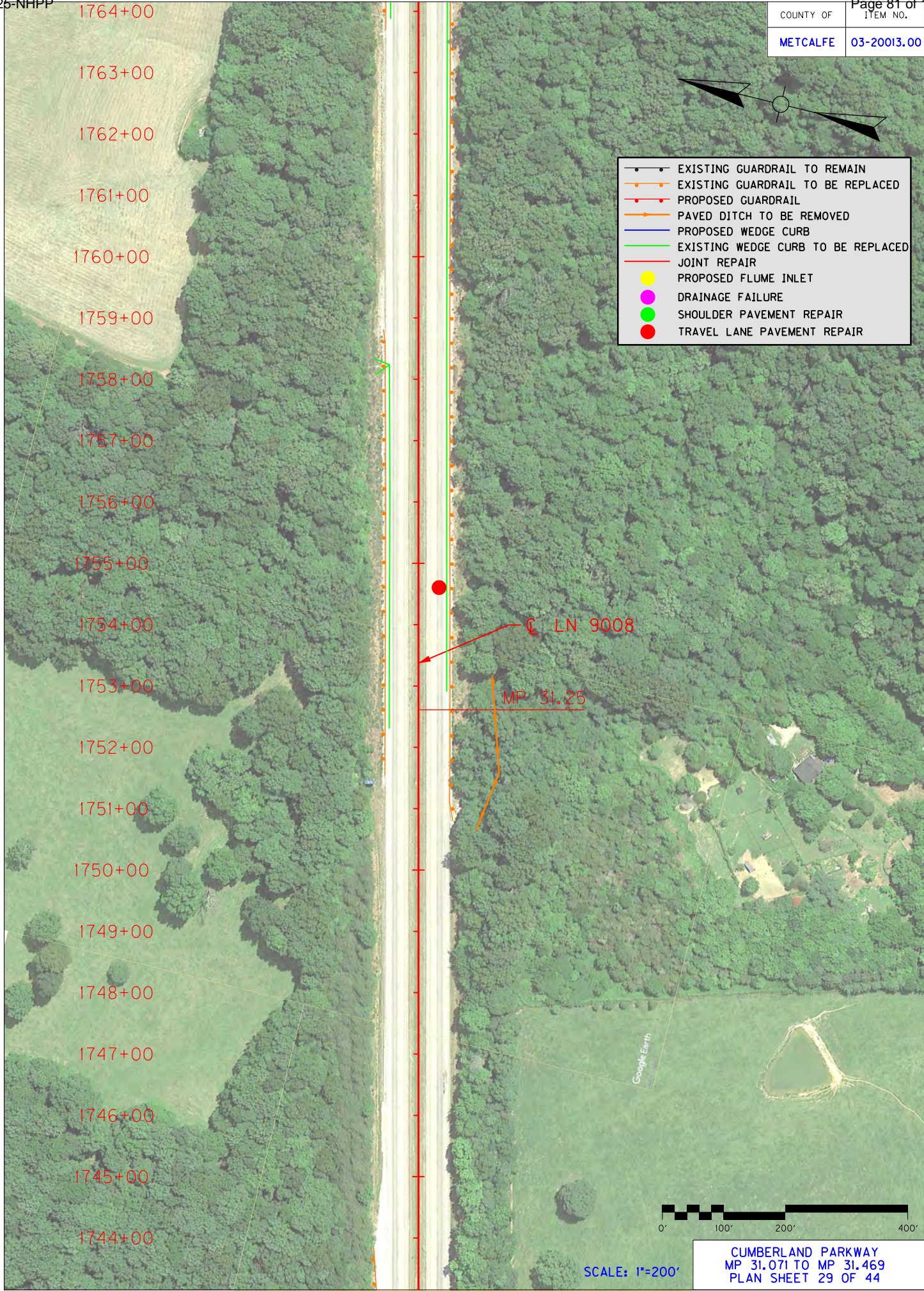


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



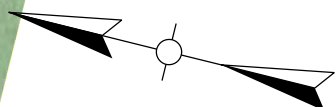


COUNTY OF	ITEM NO.
METCALFE	03-20013.00





COUNTY OF	ITEM NO.
METCALFE	03-20013.00



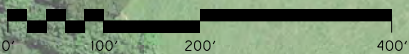
- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

1785+00  
1784+00  
1783+00  
1782+00  
1781+00  
1780+00  
1779+00  
1778+00  
1777+00  
1776+00  
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1765+00

MP 31.75

Q LN 9008

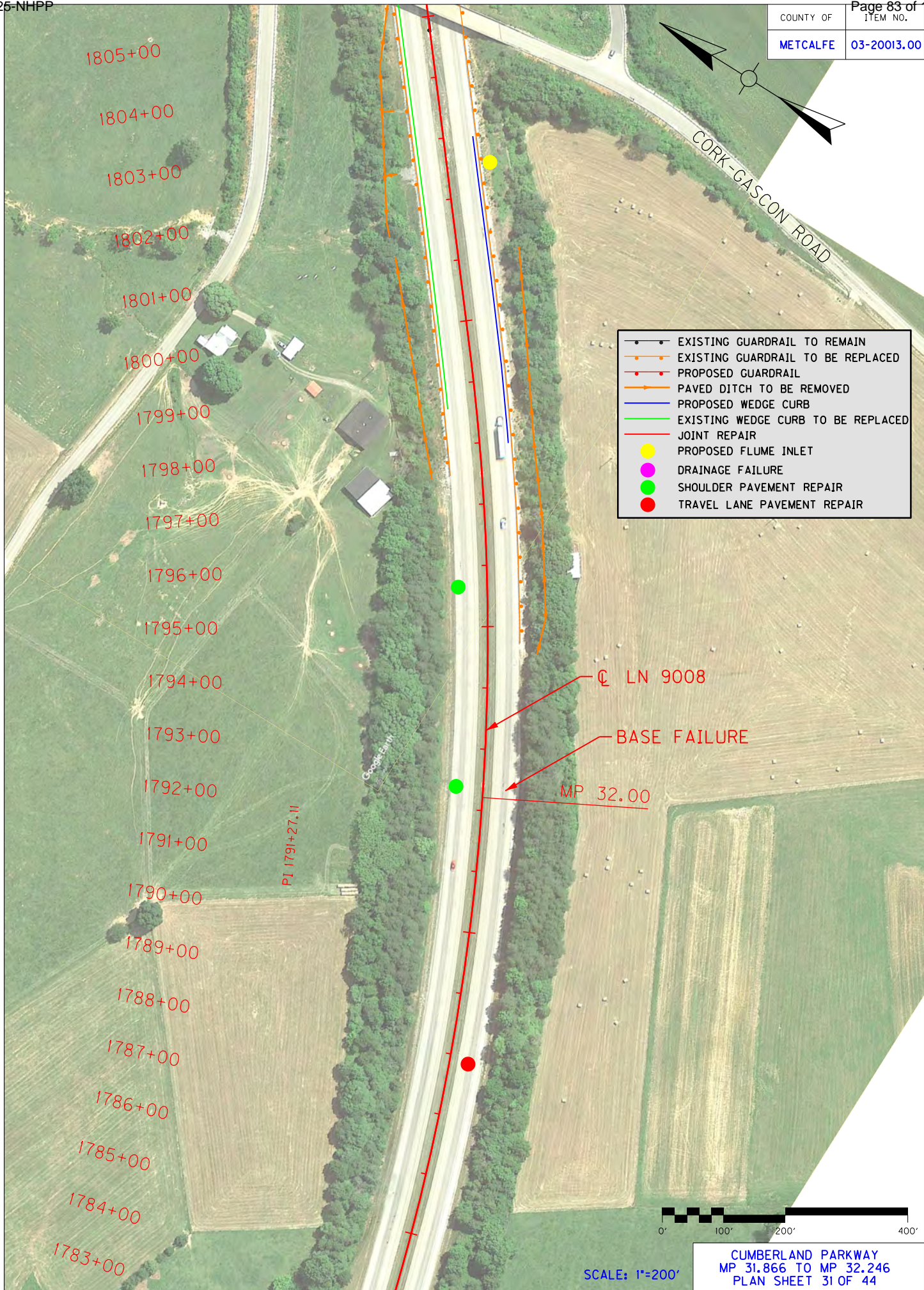
MP 31.50



SCALE: 1"=200'  
CUMBERLAND PARKWAY  
MP 31.469 TO MP 31.866  
PLAN SHEET 30 OF 44



COUNTY OF	ITEM NO.
METCALFE	03-20013.00



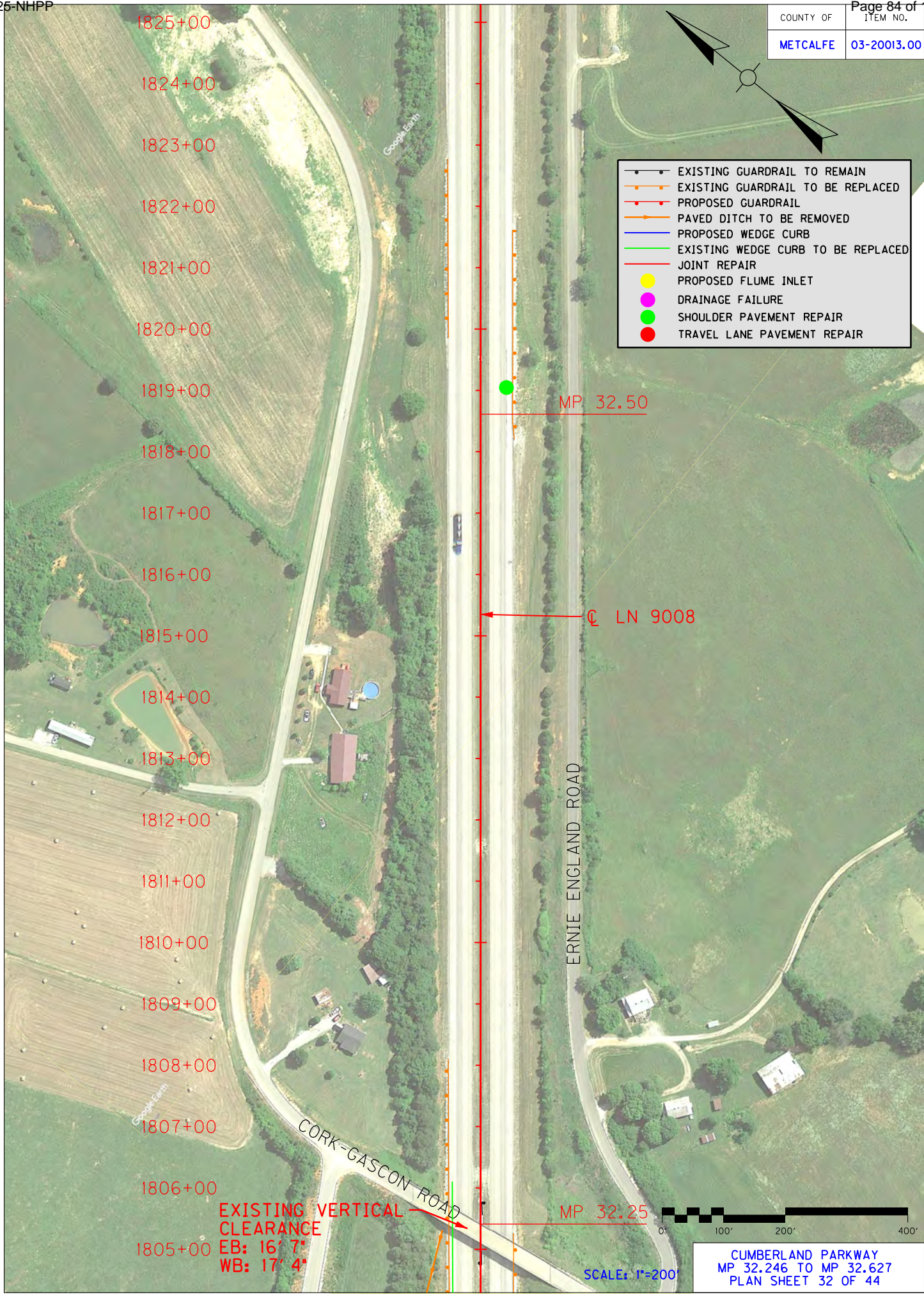
- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

CUMBERLAND PARKWAY  
MP 31.866 TO MP 32.246  
PLAN SHEET 31 OF 44

SCALE: 1"=200'



COUNTY OF	ITEM NO.
METCALFE	03-20013.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

1825+00  
1824+00  
1823+00  
1822+00  
1821+00  
1820+00  
1819+00  
1818+00  
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1816+00  
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1812+00  
1811+00  
1810+00  
1809+00  
1808+00  
1807+00  
1806+00  
1805+00

EXISTING VERTICAL  
CLEARANCE  
EB: 16' 7"  
WB: 17' 4"

MP 32.50

LN 9008

ERNIE ENGLAND ROAD

CORK-GASCON ROAD

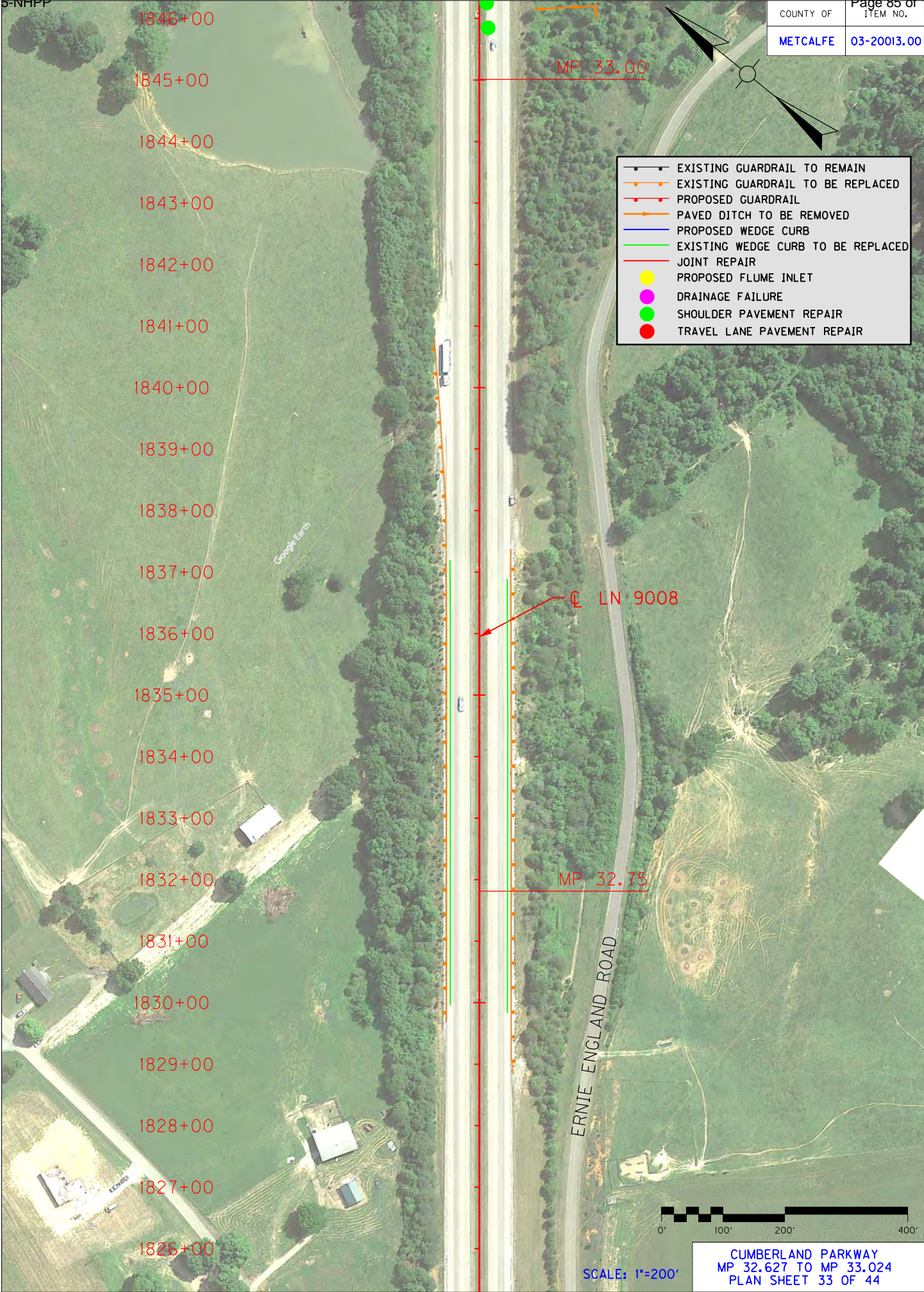
MP 32.25

SCALE: 1"=200'

CUMBERLAND PARKWAY  
MP 32.246 TO MP 32.627  
PLAN SHEET 32 OF 44



COUNTY OF	ITEM NO.
METCALFE	03-20013.00

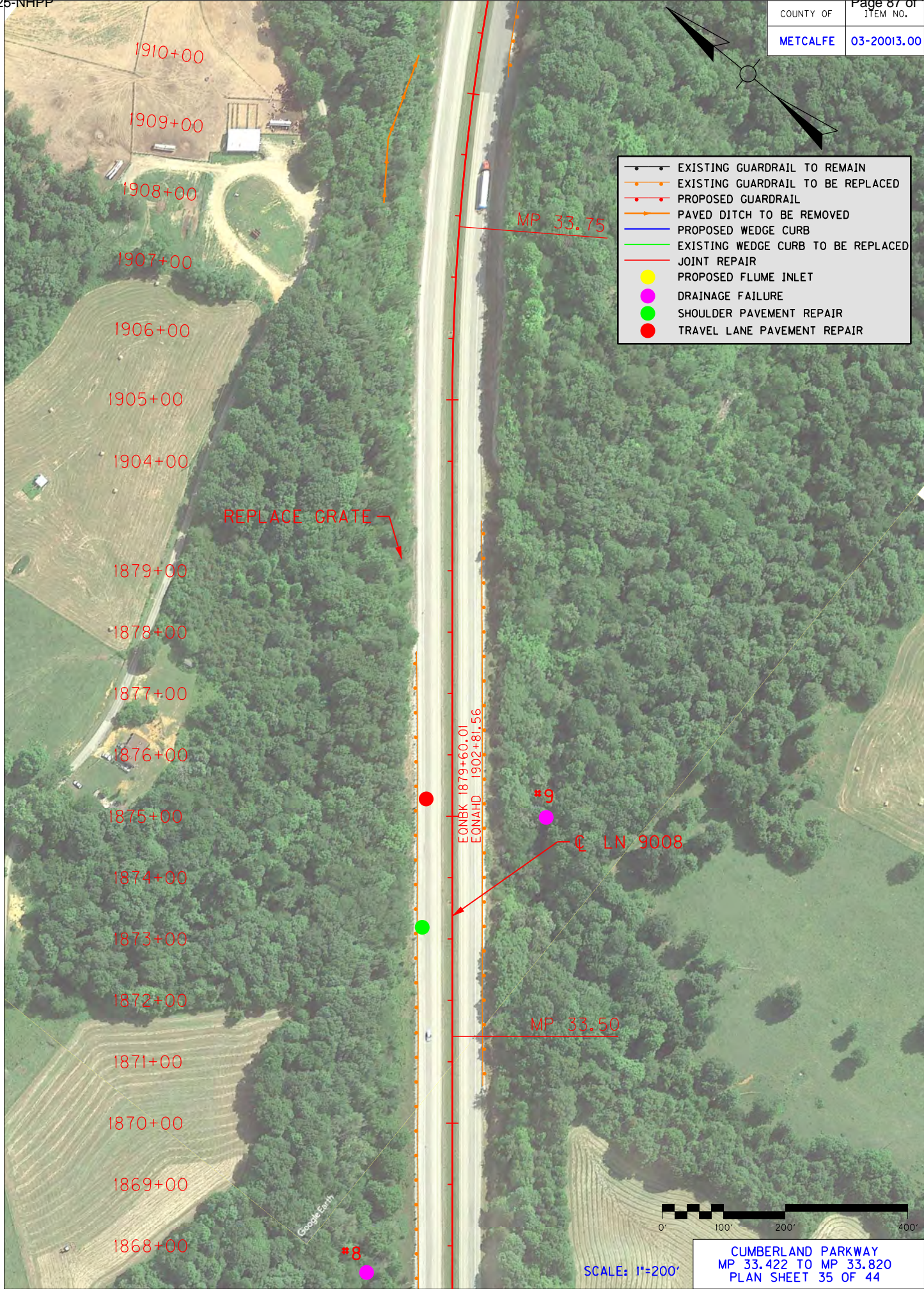




03-20013.00

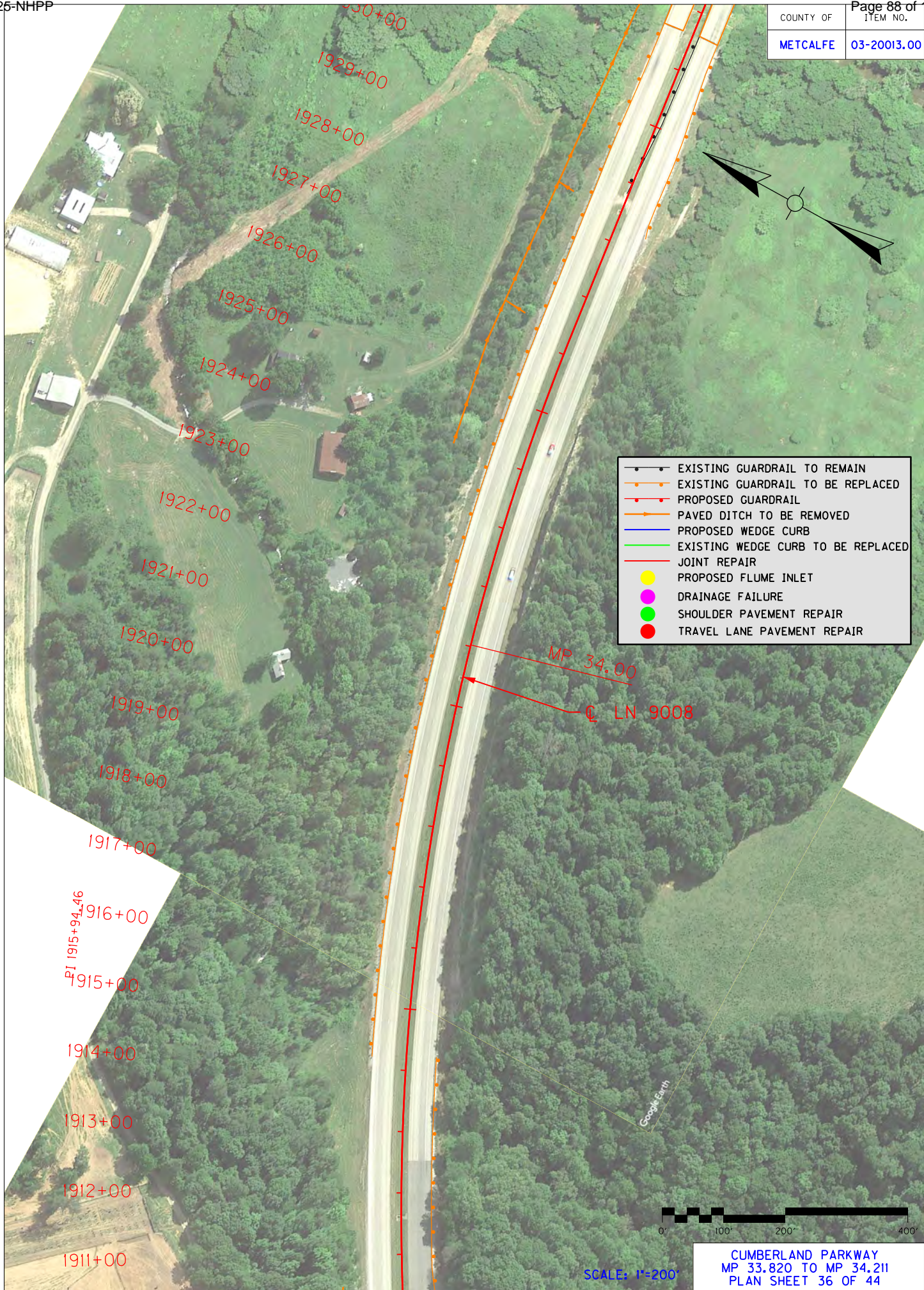


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



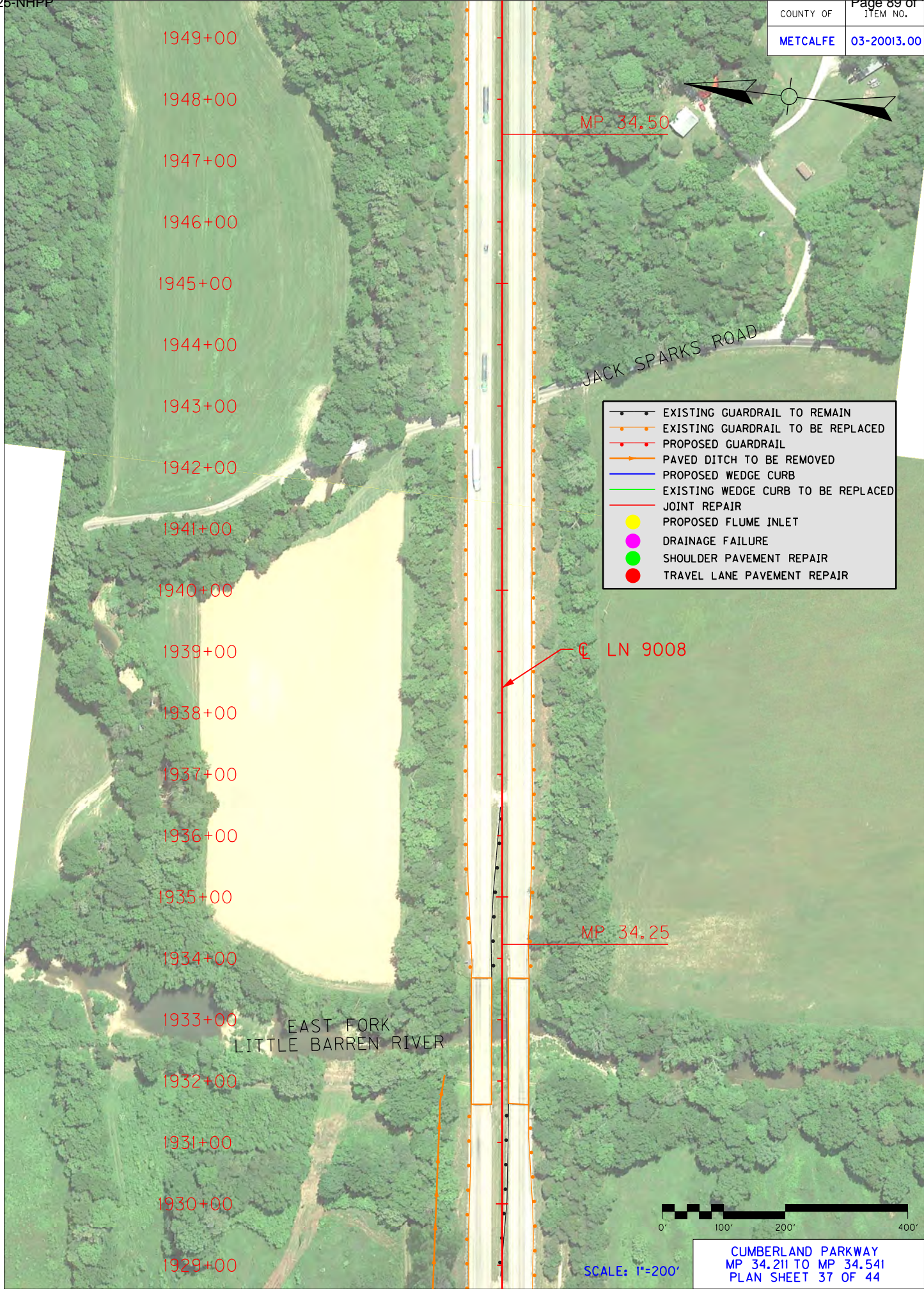


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



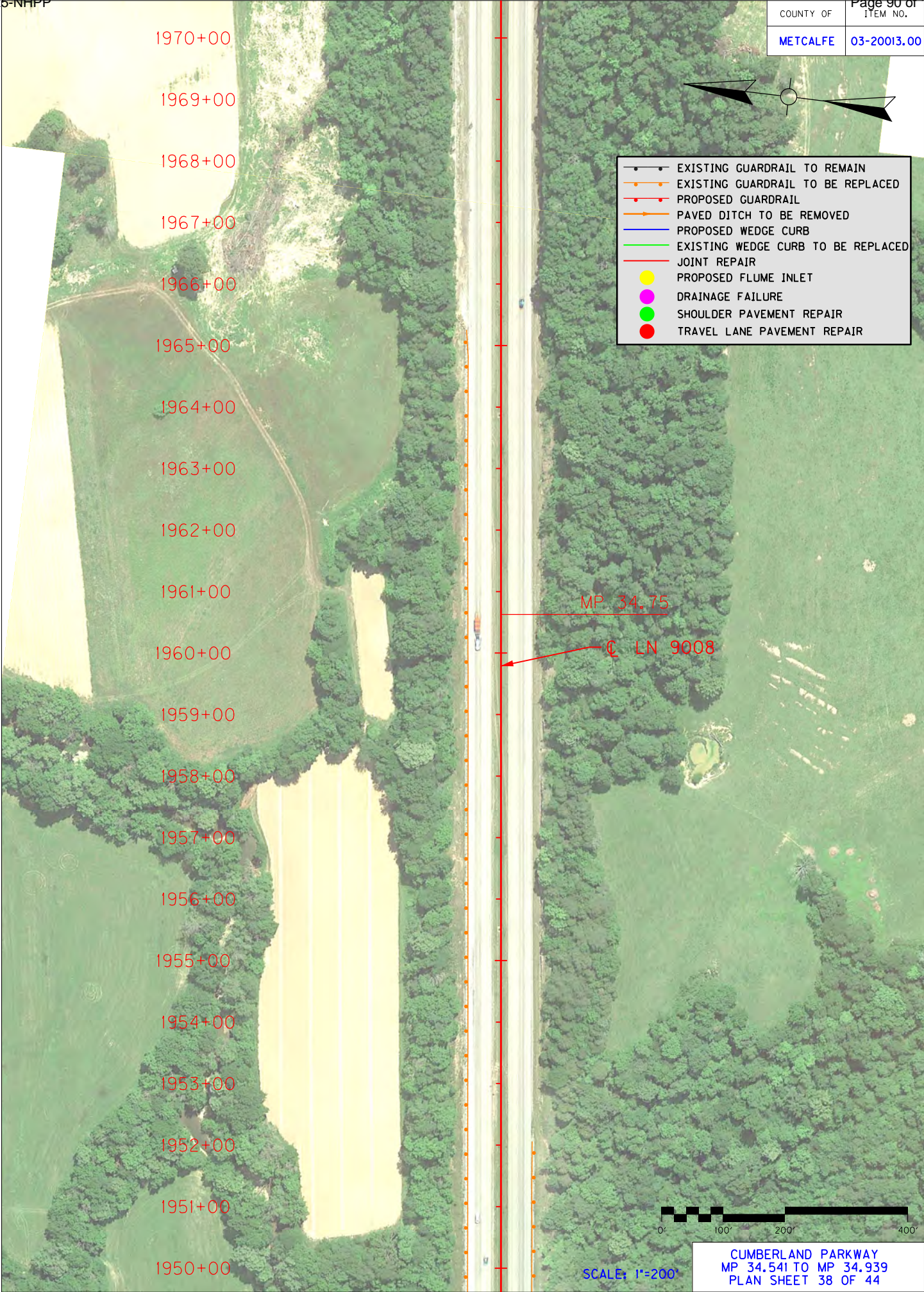


COUNTY OF	ITEM NO.
METCALFE	03-20013.00



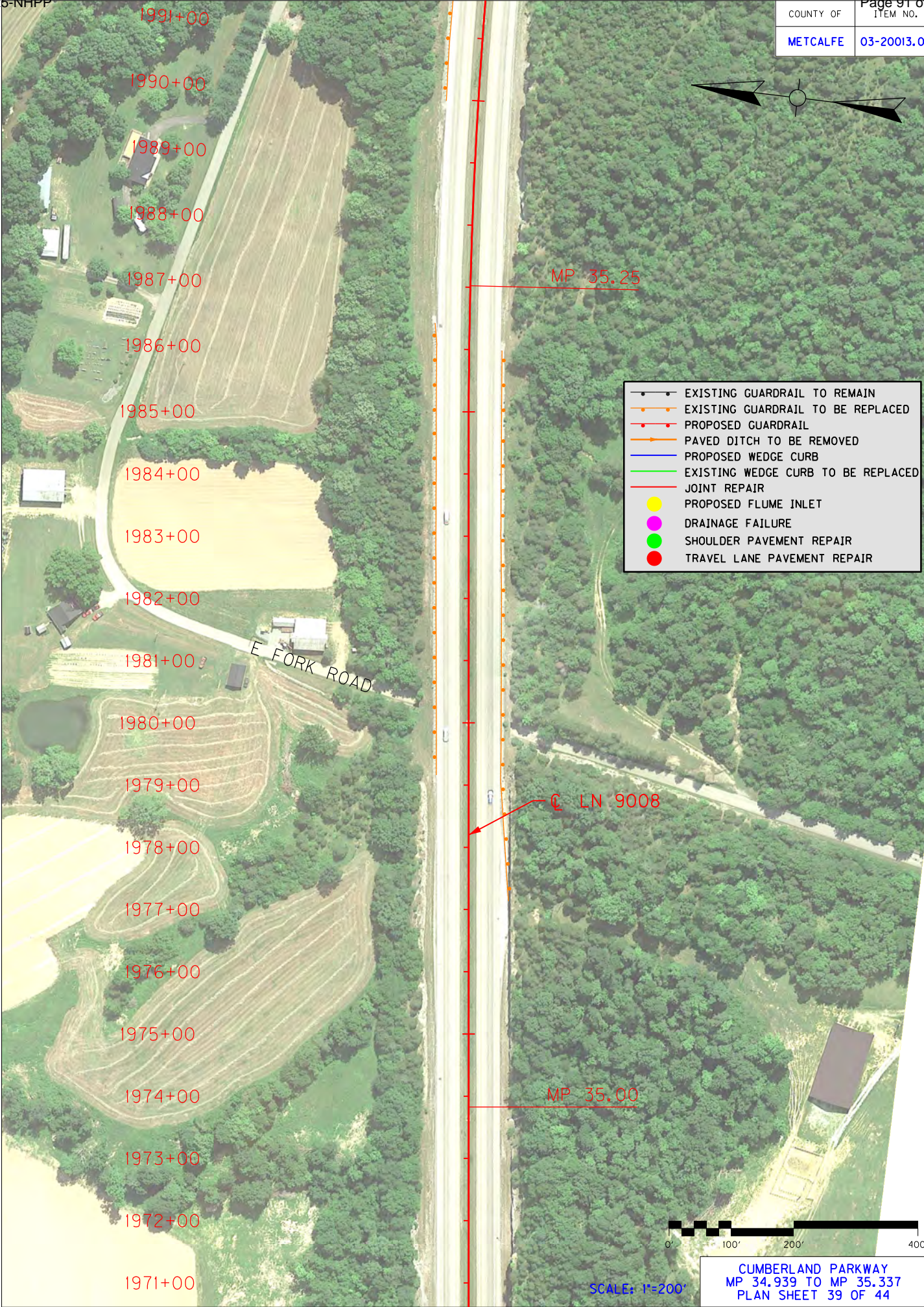


COUNTY OF	ITEM NO.
METCALFE	03-20013.00





COUNTY OF	ITEM NO.
METCALFE	03-20013.00

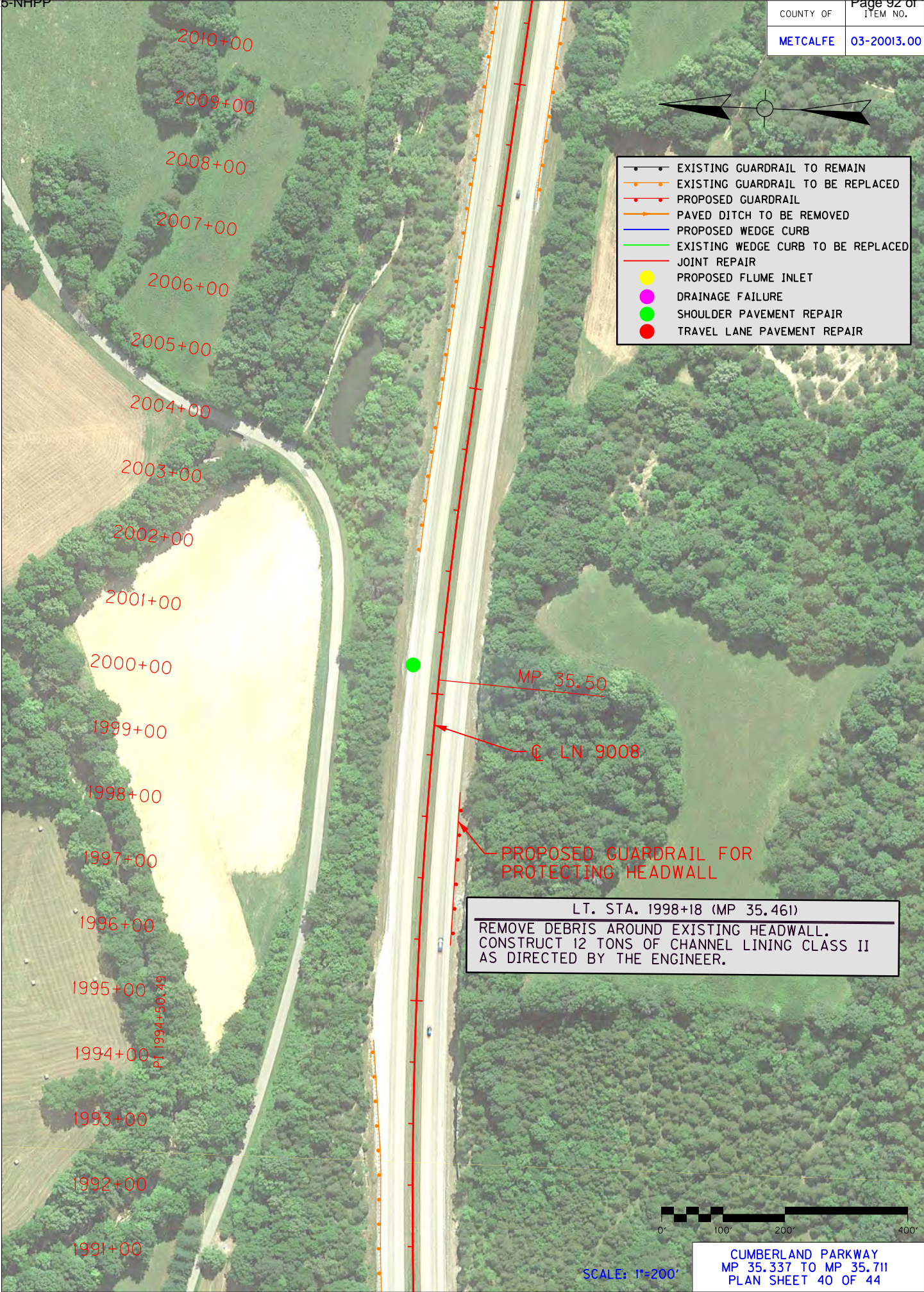


SCALE: 1"=200'

CUMBERLAND PARKWAY  
MP 34.939 TO MP 35.337  
PLAN SHEET 39 OF 44

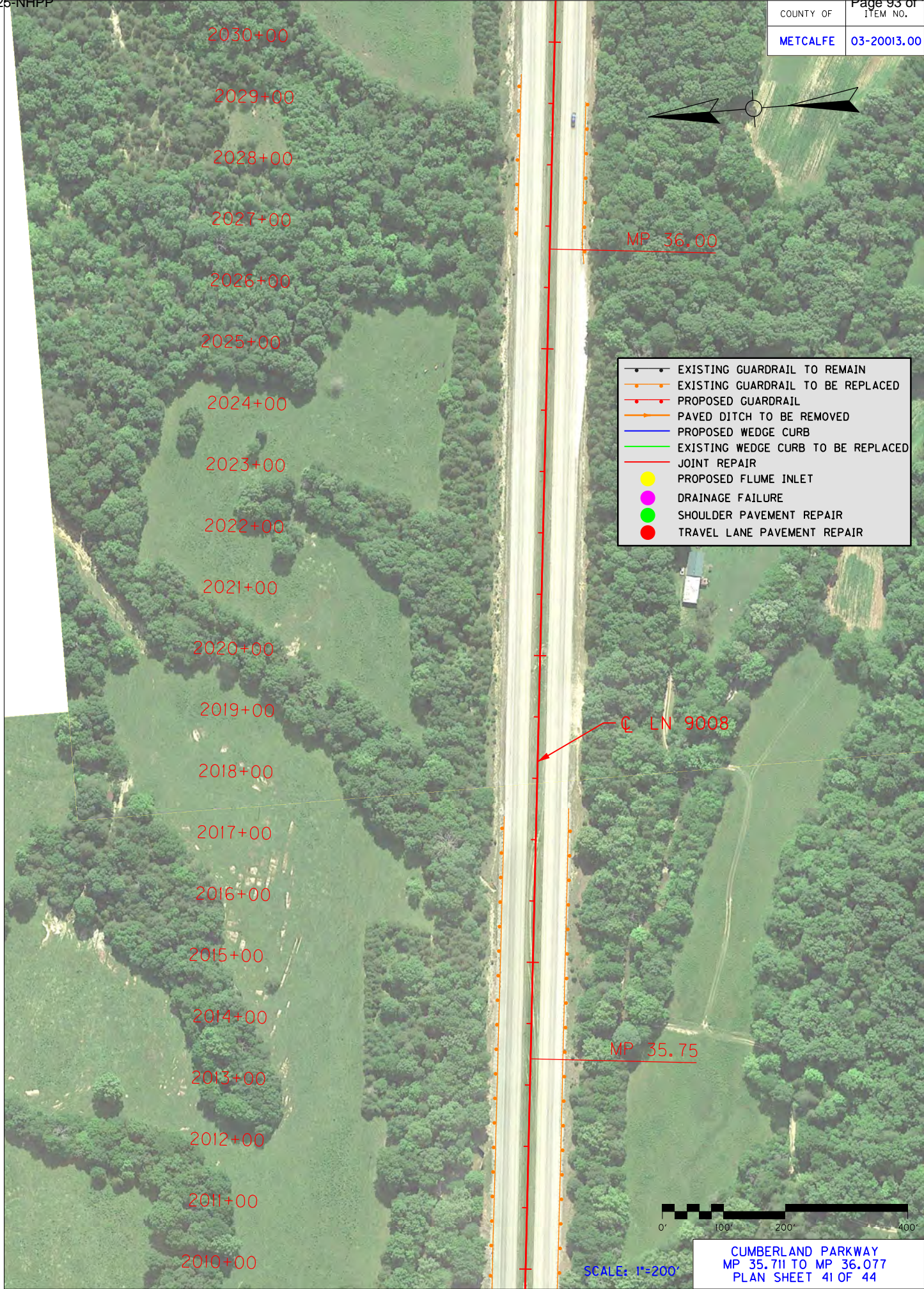


COUNTY OF	ITEM NO.
METCALFE	03-20013.00





COUNTY OF	ITEM NO.
METCALFE	03-20013.00







- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
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- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

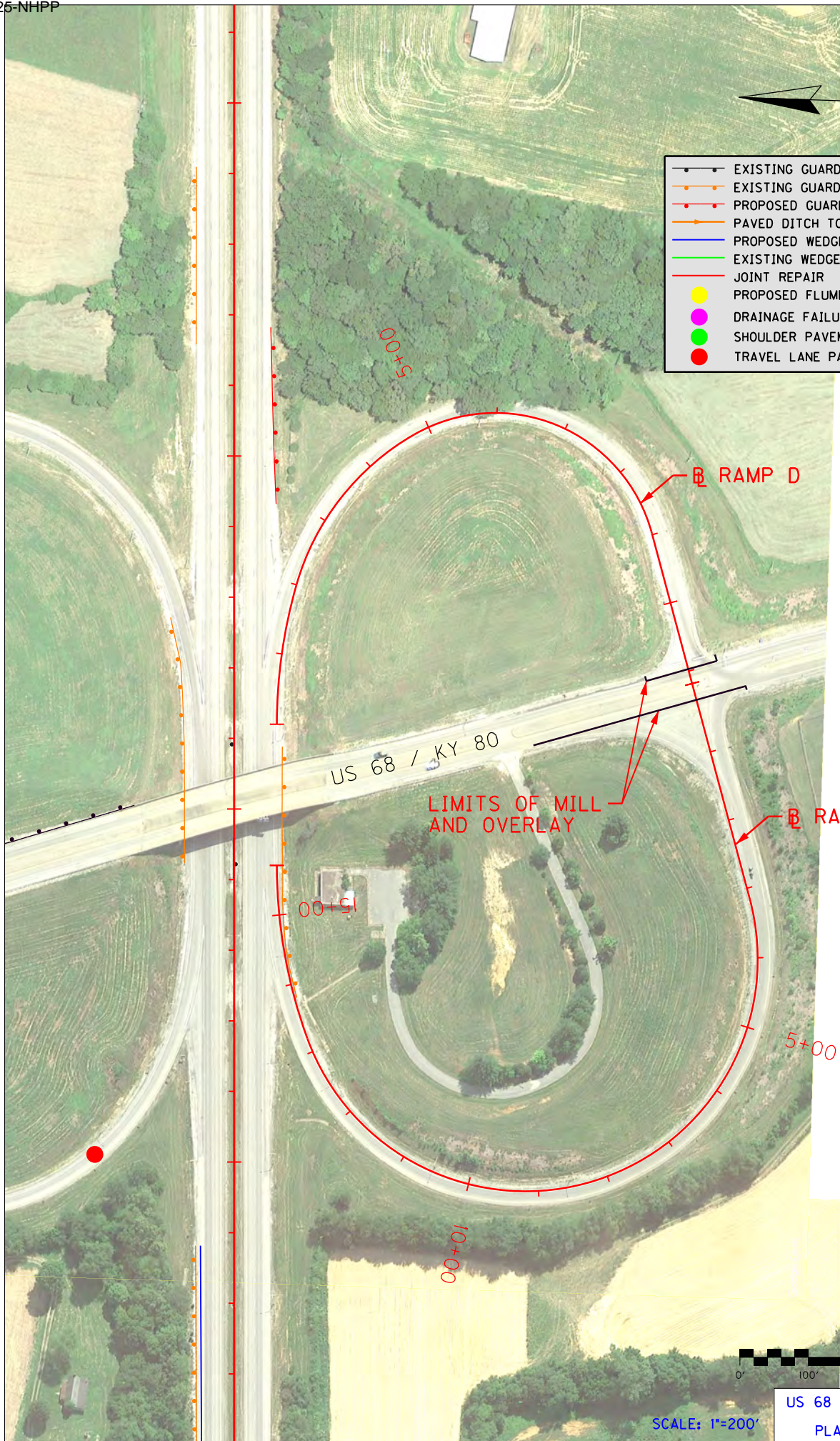




COUNTY OF	ITEM NO.
METCALFE	03-20013.00

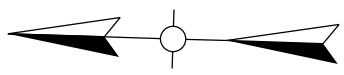


- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR





COUNTY OF	ITEM NO.
METCALFE	03-20013.00



- EXISTING GUARDRAIL TO REMAIN
- EXISTING GUARDRAIL TO BE REPLACED
- PROPOSED GUARDRAIL
- PAVED DITCH TO BE REMOVED
- PROPOSED WEDGE CURB
- EXISTING WEDGE CURB TO BE REPLACED
- JOINT REPAIR
- PROPOSED FLUME INLET
- DRAINAGE FAILURE
- SHOULDER PAVEMENT REPAIR
- TRAVEL LANE PAVEMENT REPAIR

00+5

10+00

15+00

RAMP B

LIMITS OF MILL AND OVERLAY

US 68 / KY 80

LIMITS OF MILL AND OVERLAY

RECONSTRUCT DBI APRON & TOP PHASE

00+01

0+00

5+00

RAMP A



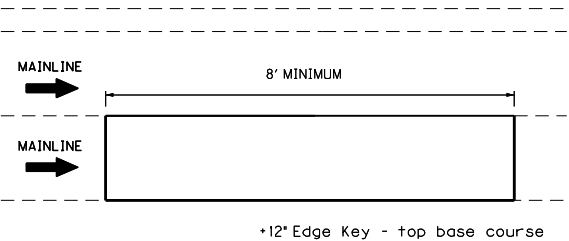
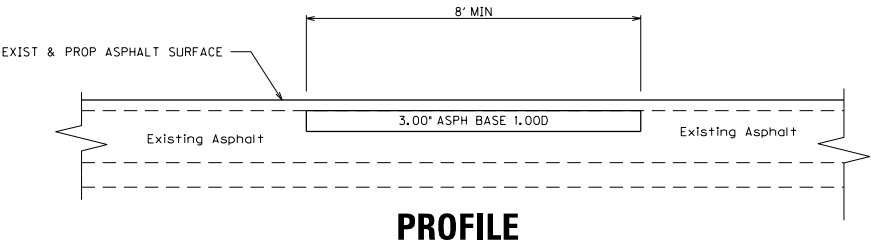
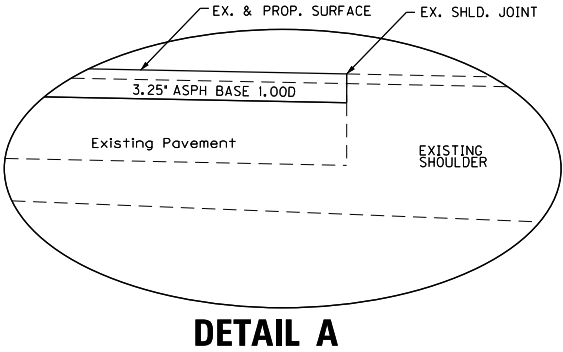
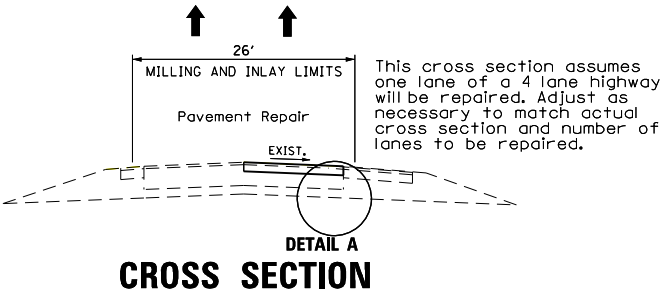
SCALE: 1"=200'

US 68 & KY 80 INTERCHANGE  
RAMP A & B  
PLAN SHEET 44 OF 44



COUNTY OF	ITEM NO.
BARREN / METCALFE	3-20004.00 3-20013.00

PAVEMENT REPAIR DETAIL



\* QUANTITIES TO BID

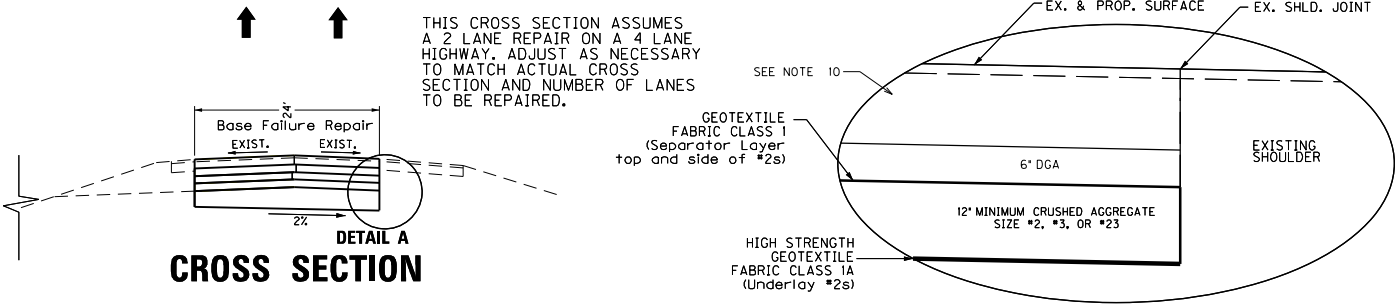
20757ED PAVEMENT REPAIR SQ. YD.

• The bid item 20757ED PAVEMENT REPAIR shall include all materials and work to complete the repair as directed by the Engineer. This includes saw cuts of pavement, removal of pavement, and asphalt courses.

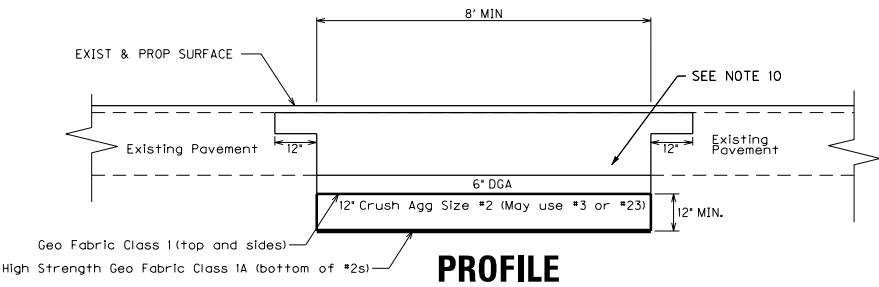
NOTES

1. (NOTE NOT USED)
2. Pavement repairs shall be performed at locations selected by and as directed by the Engineer. The Engineer will assess, select, and mark areas for treatment. The full lane width will be removed and replaced. The Engineer may elect to perform repairs on one lane or multiple lanes. The Engineer may elect to only remove and replace the top lift of base or may decide a Base Failure Repair is more appropriate (see Base Failure Repair Detail). An edge key 12" into existing pavement is required for the top course of base.
3. Complete pavement repair operations in one continuous operation or protect with barrier wall. Do not leave an unprotected hole with no workers present. If barrier wall must be used for pavement repairs, it will be considered incidental to other items of work and not be considered for payment.
4. Before resurfacing, open repaired area to traffic for a minimum of 14 days. Monitor pavement for settlement during this 14+ days and repair by leveling and wedging, as approved by the Engineer, until placement of final surface course.
5. (NOTE NOT USED)
6. Perform typical mill and inlay operations with resurfacing items subject to payment as part of the resurfacing operation.
7. Asphalt base courses shall be CL3 ASPH BASE PG76-22 1.00D.

BASE FAILURE REPAIR DETAIL



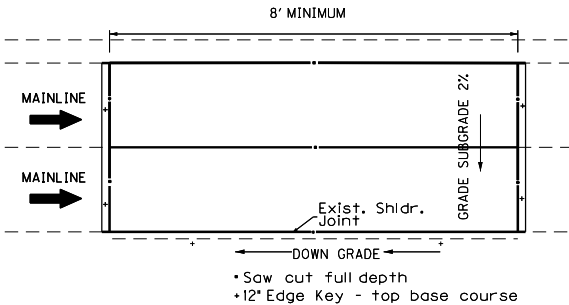
DETAIL A



\* QUANTITIES TO BID

03240 BASE FAILURE REPAIR                      SQ. YD.

\* The bid item BASE FAILURE REPAIR shall include all materials and work to complete the repair as directed by the Engineer. This includes saw cuts of pavement, removal of pavement, edge keys, asphalt base courses, DGA base, crushed graded aggregate size #57s, crushed graded aggregate (size #2, #3, or #23), Class 1 and Class 1A geotextile fabric, and asphalt base courses.



PLAN VIEW

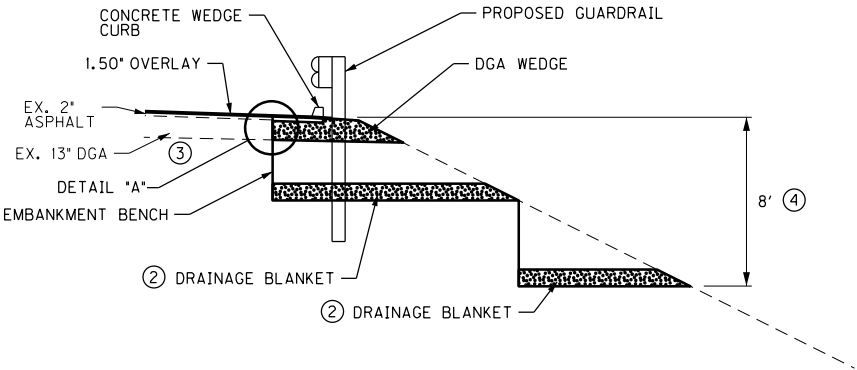
NOTES

- (NOTE NOT USED)
- Full depth base failure repairs shall be performed at locations selected by and as directed by the Engineer. The Engineer will assess, select, and mark areas for treatment. The full lane width will be removed and replaced. The Engineer may elect to perform repairs on one lane or multiple lanes. An edge key 12" into existing pavement is required for the top course of base. If only one lane is being repaired, carry top base course 12" into adjacent lane when MOT allows.
- (NOTE NOT USED)
- (NOTE NOT USED)
- Complete base failure operations in one continuous operation or protect with barrier wall. Do not leave an unprotected hole with no workers present. If barrier wall must be used for base failure repairs, it will be considered incidental to other items of work and not be considered for payment.
- After completing base failure repair operations, open to traffic for a minimum of 14 days before resurfacing. Monitor pavement for settlement during this 14+ days and repair by leveling and wedging, as approved by the Engineer, until placement of final surface course.
- (NOTE NOT USED)
- (NOTE NOT USED)
- Perform typical mill and inlay operations with resurfacing items subject to payment as part of the resurfacing operation.
- Asphalt base courses to be three 4" thick layers and one 3" thick layer as directed by Engineer and shall be CL3 ASPH BASE PG76-22 1,00D.

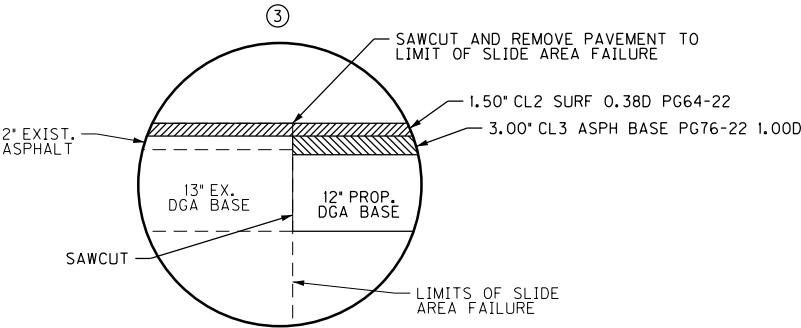


# SLIDE AREA REPAIR

WESTBOUND MP 20.193 TO MP 20.202, AND  
WESTBOUND MP 20.278 TO MP 20.299.



**SLIDE AREA REPAIR DETAIL**  
NOT TO SCALE



**DETAIL "A"**  
NOT TO SCALE

**NOTE**

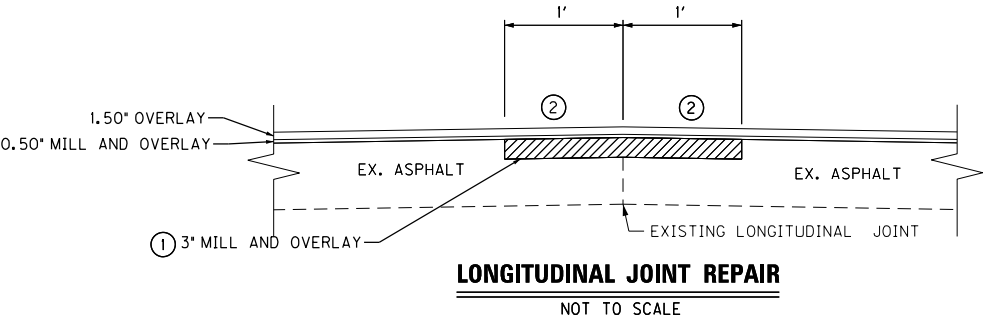
- 1 SLIDE AREA OCCURS AT APPROXIMATELY WESTBOUND MP 20.193 TO MP 20.202, AND WESTBOUND MP 20.278 TO MP 20.299. SLIDE AREAS WILL BE REPAIRED BY REMOVING AND BENCHING THE FAILED SLOPE AREA. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- 2 A DRAINAGE BLANKET SHALL BE CONSTRUCTED ACROSS THE BENCH. THE DRAINAGE BLANKET SHALL CONSIST OF 12" OF NO. 2 CRUSHED AGGREGATE WRAPPED IN CLASS 1 GEOTEXTILE FABRIC. THE CLASS 1 GEOTEXTILE FABRIC SHALL BE INCIDENTAL TO THE NO. 2 STONE.
- 3 REMOVAL OF SHOULDER PAVEMENT MAY BE REQUIRED. THE EXTENT OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER. SEE DETAIL "A".
- 4 ACTUAL DEPTH SHALL BE DETERMINED BY THE ENGINEER.
- 5 APPROXIMATE QUANTITIES OF EXCAVATION FOR BENCHING:  
SLIDE REPAIR #1: MP 20.193 TO MP 20.202 = 110 CU. YD.  
SLIDE REPAIR #2: MP 20.278 TO MP 20.299 = 230 CU. YD.  
ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.

QUANTITIES TO BID		SLIDE REPAIR #1	SLIDE REPAIR #2	TOTALS
00001	DGA BASE	14 TON	31 TON	45 TON
00078	CRUSHED AGGREGATE SIZE NO 2	81 TON	168 TON	249 TON
00216	CL3 ASPH BASE 1,000 PG76-22	5 TON	8 TON	13 TON
02200	ROADWAY EXCAVATION	110 CUYD	230 CUYD	340 CUYD
20550ND	SAWCUT PAVEMENT	60 LF	118 LF	178 LF

NOT TO SCALE

SLIDE AREA REPAIR

COUNTY OF	ITEM NO.
BARREN / METCALFE	3-20004.00 3-20013.00



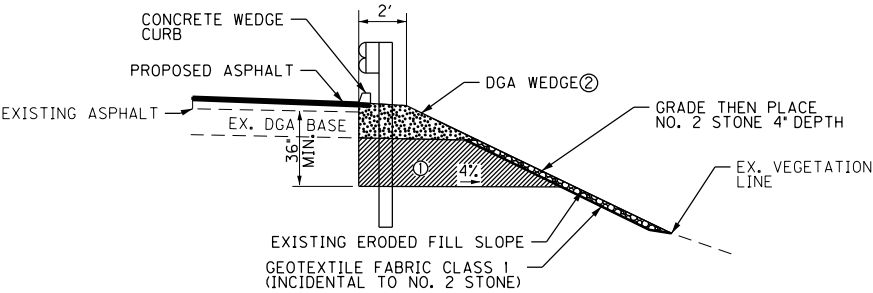
LONGITUDINAL JOINT REPAIR NOTES

- 1 AT THE LONGITUDINAL JOINT MILL AN ADDITIONAL 3" OF EXISTING ASPHALT, THEN OVERLAY WITH THE FOLLOWING ASPHALT BASE:  
3.00" CL3 ASPH BASE PG76-22 1.00D
- 2 MATCH EXISTING CROSS SLOPES.

QUANTITIES TO BID

00216	CL3 ASPH BASE 1.00D PG76-22
02677	ASPHALT MILLING AND TEXTURING

- SHOULDER AND FILL SLOPE REPAIR NOTES
- 1 REMOVE EXISTING SHOULDER MATERIAL AND REPLACE WITH INORGANIC CLAY SOIL UNIFIED CLASSIFICATION CH OR CL, OR LIKE MATERIAL AS APPROVED BY THE ENGINEER.
  - 2 REMOVE AND REPLACE EXISTING DGA WEDGE AND BASE TO THE FACE OF EROSION AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE PER UNIT BID PRICE FOR DGA.
  3. ITEMS SHOWN ARE INCLUDED IN THE BID ITEM "DITCHING AND SHOULDERING (SPECIAL)". SLOPE REPAIR INCLUDES REMOVING THE EXISTING SLOPE TO THE DEPTH SPECIFIED OR AS DIRECTED BY THE ENGINEER AND BACKFILLING WITH COMPACTED SOIL. COMPACT SOIL IN 6" LIFTS. EXCAVATED MATERIAL MAY BE WASTED WITHIN THE RIGHT OF WAY IN AREAS DESIGNATED BY THE ENGINEER.
  4. GRADING THE SLOPE PRIOR TO PLACEMENT OF NO. 2 STONE WILL BE INCIDENTAL TO THE STONE BID ITEM.
  5. A QUANTITY OF CHANNEL LINING CLASS II HAS BEEN INCLUDED ON THE GENERAL SUMMARY FOR FILLING IN DEEPLY ERODED AREAS PRIOR TO GRADING AND PLACING THE NO. 2 STONE.
  6. THE MINIMUM LONGITUDINAL LENGTH OF DITCHING AND SHOULDERING (SPECIAL) SHALL BE 10 FEET.

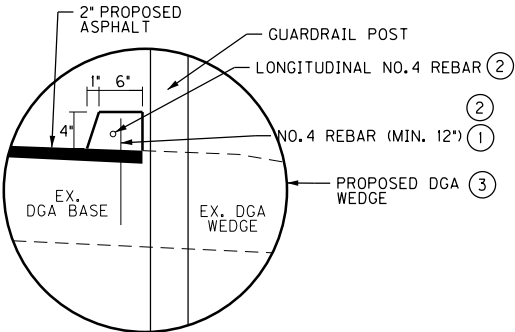


QUANTITIES TO BID

00001	DGA
00078	CRUSHED AGGREGATE SIZE NO 2
02483	CHANNEL LINING CLASS II
02576	DITCHING AND SHOULDERING (SPECIAL)
22883EN	CONCRETE WEDGE CURB

SHOULDER AND FILL SLOPE REPAIR

NOT TO SCALE



CONCRETE WEDGE CURB DETAIL

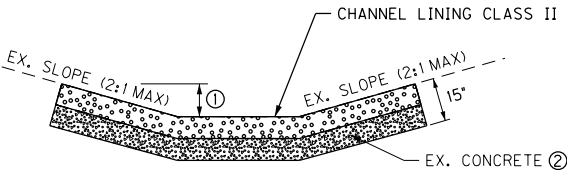
NOT TO SCALE

CONCRETE WEDGE CURB NOTES

- 1 NO. 4 REBAR TO BE SPACED 2' - 6" OC.
- 2 REBAR IS INCIDENTAL TO CONCRETE WEDGE CURB.
- 3 AT THE SHOULDER AND FILL SLOPE REPAIR AREAS, THE PROPOSED DGA WEDGE WILL BE FULL DEPTH.

QUANTITIES TO BID

22883EN	CONCRETE WEDGE CURB
---------	---------------------



PAVED DITCH REMOVAL

NOT TO SCALE

PAVED DITCH REPAIR NOTES

- 1 MATCH EXISTING DEPTH OR 1.0' MIN. WHICHEVER IS GREATER.
- 2 EXISTING CONCRETE TO BE BROKEN INTO PIECES THE SIZE OF THE SPECIFIED CHANNEL LINING AND RESHAPED TO THAT OF THE NEW DITCH. SHALL BE PAID FOR BY "REMOVE PAVED DITCH" BID ITEM.

QUANTITIES TO BID

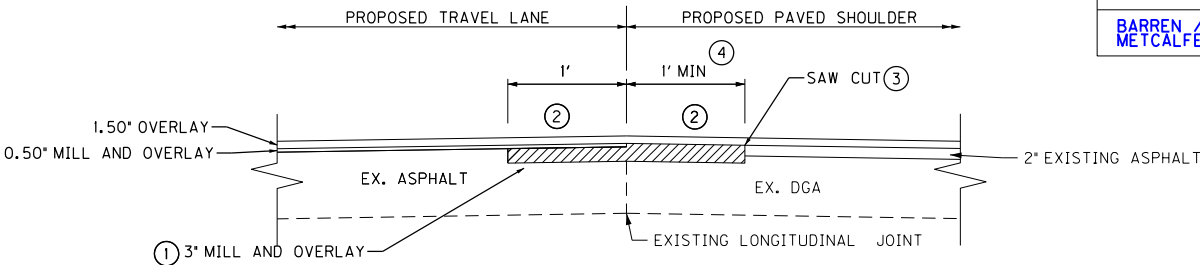
02165	REMOVE PAVED DITCH
02483	CHANNEL LINING CLASS II

NOT TO SCALE

MISCELLANEOUS DETAILS  
PAGE 1 OF 2



COUNTY OF	ITEM NO.
BARREN / METCALFE	3-20004.00 3-20013.00



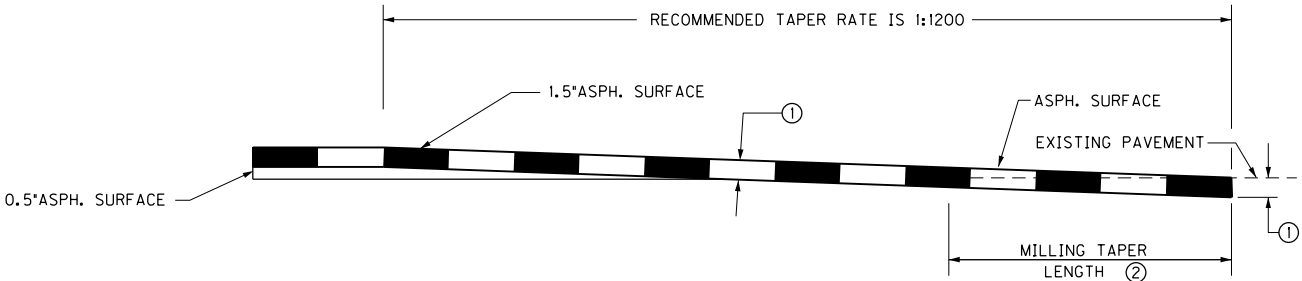
**SHOULDER PAVEMENT REPAIR**

NOT TO SCALE

QUANTITIES TO BID  
23593EC SHOULDER FAILURE REPAIR

LONGITUDINAL JOINT REPAIR NOTES

- 1 AT THE LONGITUDINAL SHOULDER JOINT MILL AN ADDITIONAL 3" OF EXISTING ASPHALT, THEN OVERLAY WITH THE FOLLOWING ASPHALT BASE:  
3" CL3 ASPH BASE PG76-22 1.000
  - 2 MATCH EXISTING CROSS SLOPES.
  - 3 BEFORE MILLING FOR SHOULDER PAVEMENT REPAIR, ALL SHOULDER ASPHALT TO BE REMOVED MUST FIRST BE SAW CUT.
  - 4 WIDTH OF SHOULDER AREA TO BE REMOVED SHALL BE DETERMINED BY THE ENGINEER, HOWEVER IT SHALL BE 1 FOOT MINIMUM.
5. THE BID ITEM 23593EC SHOULDER FAILURE REPAIR SHALL INCLUDE ALL MATERIALS AND WORK TO COMPLETE THE REPAIR AS DIRECTED BY THE ENGINEER. THIS INCLUDES SAW CUTS OF PAVEMENT, REMOVAL OF PAVEMENT, AND ASPHALT COURSES.

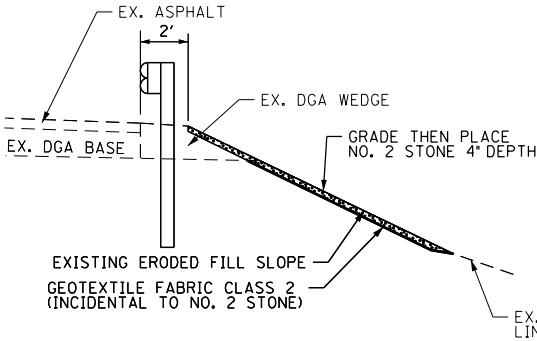


- 1 ASPHALT SURFACE THICKNESS (FULL DEPTH)
- 2 MILL EXISTING PAVEMENT TO RECEIVE ASPHALT SURFACE FULL DEPTH (EDGE KEY).  
$$\text{TAPER LENGTH (ft)} = \frac{t \text{ (in)} \times \text{TAPER RATE}}{12}$$

FOR A TAPER RATE OF 1:1200  
TAPER LENGTH = 125 FEET WHEN t = 1.25 inches  
TAPER LENGTH = 150 FEET WHEN t = 1.50 inches

**TAPERING OF OVERLAYS ON HIGH SPEED FACILITIES ( 65 MPH)**

NOT TO SCALE



**FILL SLOPE REPAIR**

NOT TO SCALE

SHOULDER AND FILL SLOPE REPAIR NOTES

- 1 GRADING THE SLOPE PRIOR TO PLACEMENT OF NO. 2 STONE WILL BE INCIDENTAL TO THE STONE BID ITEM.
- 2 A QUANTITY OF CHANNEL LINING CLASS II HAS BEEN INCLUDED ON THE GENERAL SUMMARY FOR FILLING IN DEEPLY ERODED AREAS PRIOR TO GRADING AND PLACING THE NO. 2 STONE.

QUANTITIES TO BID

00078 CRUSHED AGGREGATE NO 2 TON  
02483 CHANNEL LINING CLASS II TON

NOT TO SCALE

MISCELLANEOUS DETAILS  
PAGE 2 OF 2

**PROPOSED CONSTRUCTION FOR DRAINAGE FAILURES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 1 OF 5**

The field reconnaissance for development of the plans and proposal pages for this project identified nine drainage failure areas. The approximate location of each one is shown on the plans and noted on the Schedule and Summary of Drainage Failure Repairs. Each of the nine drainage failures are associated with a culvert outfall. The failures include:

- Erosion behind, around the sides, and beneath the headwall.
- Disjointed pipes.
- Headwalls that have slipped.
- Paved ditch outlet that is broken up / collapsed.
- Exposed culvert pipe with no cover.
- Need for adjacent slope protection.
- Need for outlet channel protection.

Size of pipes were measured, but no other accurate survey work was completed. Rough measurements were taken for estimating quantities.

“Tree Removal” is not allowed for this project. Vegetation will have to be cleared to access and complete the work described below. The Engineer will mark trees that cannot be removed. The Contractor is expected to access and complete the specified work with equipment that will not require cutting of marked trees. If cutting of trees is absolutely necessary for a specific area, then Engineer will determine if the work in that specific area can be modified or eliminated from the contract.

Once vegetation is cleared and a full assessment can be made of each failure area, then the Engineer may modify the repair work described below and on the Schedule and Summary of Drainage Failure Repairs. If needed, a contract modification will be considered for modified work that is not commensurate with other associated work in the contract.

It was determined that three of the nine drainage failures cannot be accessed and/or the work needed to complete repairs without removal of trees. These are No. 4, No. 5, and No. 9. They are discussed below, but are not part of this construction contract and are for information only.

There shall be a separate 24622EC REPAIR bid for each failure location. This is for all earthwork, grading, clearing vegetation approved by Engineer, seeding & protection, and removal and reset of right of way fence at Beaver Creek Road for Failure No. 1.

Other bid items include:

- Crushed Aggregate Size No. 23 – for filling in eroded out areas behind, to the side, and/or below headwall.
- Crushed Aggregate Size No. 2 – for filling in and protection of fill slopes near each headwall.
- Geotextile Fabric Class 1 – for eroded areas where crushed aggregate No. 2's and No. 23's are placed. Wrapped when soil is placed on the aggregate for the headwalls.
- Channel Lining Class II and III – for paved ditch being removed and for protection of outlet channel. Note that the depth of Channel Lining Class II placed on paved ditch that is broken up will typically be greater than 6” for the outlets.
- Erosion Control Blanket – for graded areas not requiring stone protection.
- Remove Headwall – for removal of headwalls being replaced.
- Remove Pipe – for disjointed pipe that needs to be removed and replaced.
- Culvert Pipe – for pipe that is being removed and/or extended.
- Pipe Culvert Headwall – for headwalls that are being replaced.

The extent of the construction for each of bid items will be as directed by the Engineer.



**PROPOSED CONSTRUCTION FOR DRAINAGE FAILURES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 2 OF 5**

The existing conditions and proposed construction for each drainage failure area is as follows:

**DRAINAGE FAILURE NO. 1 – EB – MP 20.38 – RT. STA. 1178+50**

Existing:

- 24" CMP
- Pipe Culvert Type Headwall (similar to Std. Dwg. RDH-110)
- Erosion around, behind, and below front portion of headwall.
- Collapsed paved ditch that leads (~120') to culvert beneath Beaver Creek Road.
- Eroded channel slopes.

Proposed Construction:

- Remove paved ditch outlet and portion of paved surface ditch that's lead to the outlet (break up concrete).
- Construct on top of broken up concrete a 6-foot wide trapezoidal channel with Channel Lining Class II from the headwall to the headwall of culvert beneath Beaver Creek Road. Side slopes shall be vary and need to be as steep as 1.5H:1V. Thickness of channel lining shall be 24-36" (as directed by Engineer. Depth to protect shall be up and along the eroded slopes.
- Place Crushed Aggregate Size No. 23 with Geotextile Fabric Class 1 in eroded areas around, behind, and in front portion of headwall.
- Construct Erosion Control Blanket in graded areas not protected by the channel lining.

Access to this area may need to be from Beaver Creek Road. Contractor is responsible for any coordination with Metcalf County for any traffic control on this road. To gain access and unloading of equipment the Contractor shall maintain one lane of traffic with signing and flagmen – as approved by the Engineer. Contractor is responsible for any damage to Beaver Creek Road including the culvert being tied into.

**DRAINAGE FAILURE NO. 2 – WB – MP 27.13 – LT. STA. 1535+00**

Existing:

- 15" CMP
- Straight Headwall (similar to Std. Dwg. RDH-005)
- Erosion around and behind headwall. Pipe is exposed.
- Collapsed and eroded out paved ditch in front of the headwall.

Proposed Construction:

- Remove paved ditch outlet (break up concrete).
- Construct on top of broken up concrete a 6-foot wide Channel Lining Class II extending 10' out from headwall. Depth of channel lining shall be 12 inches.
- Place Crushed Aggregate Size No. 23 with Geotextile Fabric Class 1 in eroded areas around, behind, and below front portion of headwall.
- Construct Erosion Control Blanket on graded areas not protected by the channel lining.

**PROPOSED CONSTRUCTION FOR DRAINAGE FAILURES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 3 OF 5**

**DRAINAGE FAILURE NO. 3 – WB – MP 27.15 – LT. STA. 1536+25**

Existing:

- 24" CMP
- Straight Headwall (similar to Std. Dwg. RDH-005)
- Erosion around and behind headwall.
- Eroded outlet channel.

Proposed Construction:

- Construct 6-foot wide Channel Lining Class II extending 10' out from headwall. Thickness of channel lining shall be 12 inches.
- Place Crushed Aggregate Size No. 23 with Geotextile Fabric Class 1 in eroded areas around and behind headwall.
- Place Crushed Aggregate Size No. 2 with Geotextile Fabric Class 1 in eroded areas above and to the sides of the headwall.
- Construct Erosion Control Blanket on graded areas not protected by aggregate.

**DRAINAGE FAILURE NO. 4 – WB – MP 27.92 – LT. STA. 1576+70**

Existing:

- 15" CMP
- Straight Headwall (similar to Std. Dwg. RDH-005)
- Portion of pipe is exposed in channel (but is performing okay).

Proposed Construction:

Portion of pipe exposed should be replaced or covered, but access to this area would be difficult without removal of trees. Therefore, work for this failure is not part of this project.

**DRAINAGE FAILURE NO. 5 – WB – MP 28.76 – LT. STA. 1621+30**

Existing:

- 15" CMP
- No Headwall
- Portion of pipe is disjointed and exposed (but is performing okay).

Proposed Construction:

Headwall should be added and portion of pipe replaced, but access to this area would be difficult without removal of trees. Therefore, work for this failure is not part of this project.

**DRAINAGE FAILURE NO. 6 – EB – MP 30.44 – LT. STA. 1710+00**

Existing:

- 15" RCP
- Straight Headwall (similar to Std. Dwg. RDH-005)
- Erosion around and behind headwall. Pipe is exposed.
- Eroded outlet channel in front of the headwall.

Proposed Construction:

- Remove headwall and 12 feet of pipe.



**PROPOSED CONSTRUCTION FOR DRAINAGE FAILURES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 4 OF 5**

- Construct 12 feet of 15-inch culvert pipe.
- Construct Sloped and Flared Headwall (Std. Dwg. RDH-020-03).
- Place Crushed Aggregate Size No. 23 with Geotextile Fabric Class 1 as backfill behind and around new headwall.
- Construct 6-foot wide Channel Lining Class II extending 10' out from headwall. Thickness of channel lining shall be 15 inches.
- Construct Erosion Control Blanket on graded areas not protected by the channel lining.

**DRAINAGE FAILURE NO. 7 – EB – MP 33.30 – RT. STA. 1861+00**

Existing:

- 36" CMP (2-3 sections disjointed)
- Skewed Pipe Culvert Type Headwall (similar to Std. Dwg. RDH-120)
- Erosion around, behind, and below headwall.
- Slope erosion on both sides of headwall.

Proposed Construction:

- Remove 12 feet of pipe.
- Construct 12 feet of 36-inch culvert pipe.
- Headwall:
  - Option 1 – Remove and reset headwall as needed to construct the culvert pipe.
  - Option 2 – Remove headwall and replace with Skewed Pipe Culvert Headwall (Std. Dwg. RDH-120-02)

Once pipe is removed Engineer will review and determine which option to do.  
Contractor shall bid both options.

- Place Crushed Aggregate Size No. 23 with Geotextile Fabric Class 1 in eroded areas around and behind headwall.
- Place Crushed Aggregate Size No. 2 with Geotextile Fabric Class 1 on eroded slope on each side of headwall.
- Construct 20' x 10' x 24-36-inch thick Channel Lining Class III at outlet of headwall.
- Construct Erosion Control Blanket on graded areas not protected by the aggregate.

It is anticipated that outside shoulder will need to be repaired after work for this failure is completed. Payment will be allowed and is included on schedule and summary of pavement repairs.

**DRAINAGE FAILURE NO. 8 – WB – MP 33.43 – LT. STA. 1867+50**

Existing:

- 24" RCP (2-3 sections disjointed and slipped down slope).
- Straight Headwall (similar to Std. Dwg. RDH-005) has slipped down the slope.
- Erosion down the slope.

Proposed Construction:

- Remove headwall and 12 feet of pipe.
- Construct 24 feet of 24-inch culvert pipe (extend existing pipe 12 feet).
- Construct Sloped and Flared Headwall (Std. Dwg. RDH-020-03).

**PROPOSED CONSTRUCTION FOR DRAINAGE FAILURES  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 5 OF 5**

- Construct 6-foot wide Channel Lining Class II extending 10' out from headwall. Thickness of channel lining shall be 15 inches.
- Place Crushed Aggregate Size No. 2 with Geotextile Fabric Class 1 on eroded slope.
- Construct Erosion Control Blanket on graded areas not protected by the aggregate.

**DRAINAGE FAILURE NO. 9 – EB – MP 33.57 – LT. STA. 1875+00**

Existing:

- 24" RCP
- Skewed Pipe Culvert Type Headwall (similar to Std. Dwg. RDH-120)
- Erosion around the headwall, portion of pipe is disjointed, and outlet channel is eroded.

Proposed Construction:

Disjointed pipe and possibly the headwall should be replaced, slope erosion control constructed, and outlet channel lining should be provided, but access to this area would be difficult without removal of trees. Therefore, work for this failure is not part of this project.



**TRAFFIC CONTROL PLAN  
CUMBERLAND PARKWAY – BARREN AND METCALFE COUNTIES  
PAGE 1 OF 6**

**TRAFFIC CONTROL GENERAL**

Except as provided herein, maintain and control traffic in accordance with the current editions of the Standard Specifications and Standard Drawings. Except for the roadway and traffic control bid items listed, all other items of work, described herein, necessary to maintain and control traffic, will be paid for with the lump sum bid price to "Maintain and Control Traffic". All lane closures used on the project shall be in compliance with the appropriate Standard Drawings. Do NOT use cones for lane closures or shoulder closures.

Contrary to Section 106.01, traffic control devices used on this project may be new or used in like-new condition at the beginning of the work and maintained in like-new condition until completion of the work. Traffic Control Devices will conform to current MUTCD.

Reduce the speed limit in work areas of the Parkway to 55 miles per hour and establish double fines for work zone speeding violations. The extent of these areas within the project limits will be restricted to the proximity of actual work areas as determined by the Engineer. Notify the Engineer a minimum of 12 hours prior to using the double fine signs. At the beginning of the work zone, the "WARNING FINE DOUBLED IN WORK ZONE" signs will be dual mounted. At the end of the work zone, the "END DOUBLE FINE" signs will be dual mounted as well. Remove or cover the signs when the highway work zone does not have workers present for more than a two-hour period of time. Payment for the signs will be at the unit bid price for signs erected. Any relocation or covering of signs will be incidental to "Maintain and Control Traffic."

Night work will be allowed on this project. Obtain approval from the Engineer for the method of lighting prior to its use.

**PROJECT PHASING AND CONSTRUCTION PROCEDURES**

The Contractor shall maintain a minimum of one 11-foot lane in each direction.

Use a lane closure at all times when work is performed in the adjacent lane or adjacent shoulder. Traffic shall not be allowed to travel on milled surface. Shoulders are NOT to be used as temporary travel lanes unless otherwise directed or approved by the Engineer. If shoulders are utilized, perform any maintenance of the shoulder as deemed necessary by the Engineer to maintain traffic, and this work shall be considered incidental to "Maintain and Control Traffic.". All removal of existing striping shall be by water blasting, unless otherwise directed by the Engineer, and this work shall be considered incidental to "Maintain and Control Traffic", except for areas from MP 29.285 to MP 30.232. Remove edge lines as necessary and approved by the Engineer throughout the project. Paint temporary edge lines through the lane closure.

Access to ramps at the US 68 interchange shall be maintained.

The US 68 / KY 80 Ramps may be closed, one at time. Closure can occur from 6:00 PM to 6:00 AM Monday through Thursday and on no holidays. The closure shall be for a maximum of 2 nights.

Access to Drainage Failure No. 1 may need to be from Beaver Creek Road. Contractor is responsible for any coordination with Metcalf County for any traffic control on this road. To gain access and unloading of equipment the Contractor shall maintain one lane of traffic with signing and flagmen – as approved by the Engineer. Contractor is responsible for any damage to Beaver Creek Road.

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All pavement edge transitions must be smooth and level before opening lanes up to traffic. A lane closure must be in place during all times that pavement edge drop-offs are present (see Pavement Edge Drop-off note).

The Engineer will determine exact locations of pavement repairs, if any, at the time of construction. Once removal of pavement at a repair location has begun, work continuously within the parameters outlined above to complete the work and eliminate the “hole”. Place Type III Barricades immediately in front of pavement repair areas. Type III Barricades shall be considered incidental to “Maintain and Control Traffic.” Once pavement removal at a site has begun, full depth replacement must be completed within the time a lane closure is allowed.

Note that lane shifts are required throughout the project. Stripe according to the Standard Drawings and MUTCD.

The Contractor must notify the Engineer at least fourteen (14) days prior to beginning construction in either direction.

**PHASE 1**

Maintain one lane of traffic in each direction. Short lane closures, as approved by the Engineer, shall be used for pavement repairs. Shoulder closures will be allowed as approved by the Engineer.

**PHASE 2**

Shift traffic to the outside lane. Close the inside lane and shoulder to traffic. Mill existing inside lanes. Complete pavement and base failure repairs of inside lanes and shoulders. Pave the inside lanes and shoulders. Once the pavement has been removed, the Contractor must work continuously until the pavement has been replaced back to existing grade.

**PHASE 3**

Shift traffic to the inside lane. Mill existing outside lane. Complete pavement and base failure repairs of outside lanes and shoulders. Pave outside lanes and shoulders. Once the pavement has been removed, the Contractor must work continuously until the pavement has been replaced back to existing grade.

**PHASE 4**

Complete rehab operations, construct concrete wedge curb, guardrail, and guardrail end treatments. Place permanent striping and markers using temporary lane closures as directed by the Engineer. Phase 4 may be performed during closures for milling and paving, as directed by the Engineer.

**RAMPS**

The US 68 / KY 80 ramps may be closed, one at time. Mill existing lane. Pave lane and shoulders. Once the pavement has been removed, the Contractor must work continuously until the pavement has been replaced back to existing grade. This construction can be done concurrent with Phase 2 and Phase 3.

**LANE AND SHOULDER CLOSURES**

Limit the lengths of lane and shoulder closures to only that needed for actual operations in accordance with the phasing specified herein and a maximum of 4 miles in each directions at one time, or as directed by the Engineer. Limit lane closures to allow a minimum of one lane open per direction at any given time



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Other than the holidays listed in the current standard specifications, the Engineer may specify additional days and hours when lane closures are not allowed. Do not leave lane closures in place during prohibited periods.

All lanes and shoulders shall be open during winter shutdown.

Contrary to Section 112, lane and shoulder closures will NOT be measured for payment, but are considered incidental to “Maintain and Control Traffic.”

## **SIGNS**

Additional traffic control signs in addition to normal lane closure signing detailed on the Standard Drawings may be required by the Engineer. Additional signs needed for lane closures may include, but are not limited to, dual mounted LEFT/RIGHT LANE CLOSED 1 MILE, LEFT/RIGHT LANE CLOSED 2 MILES, LEFT/RIGHT LANE CLOSED 3 MILES, SLOWED/STOPPED TRAFFIC AHEAD. Signage for reduced speed limits and double fine work zones will be furnished, relocated, and maintained by the Contractor.

Contrary to Section 112, individual signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged signs or signs directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

A quantity of signs has been included for lane shifts, “Roadwork Ahead” signs on entrance ramps, and extra Double Fine signs and Speed Limit signs between interchanges to be paid for only once no matter how many times they are moved or relocated.

Traffic control signs in addition to normal lane closure signing detailed in the Standard Drawings may be required by the Engineer.

## **FLASHING ARROWS**

Flashing arrows will be paid for once, no matter how many times they are moved or relocated. The Department WILL NOT take possession of the flashing arrows upon completion of the work.

## **PORTABLE CHANGEABLE MESSAGE SIGNS**

Provide portable changeable message signs in advance of and within the project at locations to be determined by the Engineer. If work is in progress concurrently in both directions provide additional portable changeable message signs. Place portable changeable message signs one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens relocate or provide additional portable changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The locations designated may vary as the work progresses. The messages required to be provided will be designated by the Engineer. The portable changeable message signs will be in operation always. In the event of damage or mechanical/electrical failure, the Contractor will repair or replace the Portable Changeable Message Sign immediately. Portable Changeable Message Signs will be paid for once, no matter how many times they are moved or relocated. The Department WILL NOT take possession of the signs upon completion of the work.

## **BARRELS**

Barrels are to be used for channelization or delineation and will be incidental to “Maintain and Control Traffic” according to Section 112.04.01. Replacement of damaged barrels due to poor condition or reflectivity, as directed by the Engineer, will not be measured for payment.

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## **TRUCK MOUNTED ATTENUATORS**

Furnish and install MUTCD approved Truck Mounted Attenuators (TMAs) in advance of work areas when workers are present less than 12 feet from traffic. If there is less than 500 feet between work sites, only a single TMA will be required at a location directed by the Engineer. Locate the TMAs at the individual work sites and move them as the work zone moves within the project limits. All details of the TMA installations shall be approved by the Engineer. TMAs will not be measured for payment but are incidental to Maintain and Control Traffic. The Department WILL NOT take possession of the TMAs upon completion of the work.

## **PAVEMENT MARKINGS**

If lane closures are in place during nighttime hours, remove or cover the lenses of raised pavement markers that do not conform to the traffic control scheme in use, or as directed by the Engineer. Replace or uncover lenses before a closed lane is reopened to traffic. No direct payment will be made for removing and replacing or covering and uncovering the lenses but will be incidental to "Maintain and Control Traffic".

Place temporary and permanent striping in accordance with Section 112 and Section 714, except that:

1. Temporary and permanent striping will be 6" in width;
2. If the Contractor's operations or phasing requires temporary markings which must be subsequently removed from the ultimate pavement, an approved removable lane tape will be used;
3. Edge lines will be required for temporary striping;
4. Existing, temporary, or permanent striping will be in place before a lane is opened to traffic; and
5. Permanent striping will be Extruded Thermoplastic Marking.

Removal of existing and temporary striping shall be incidental to "Maintain and Control Traffic."

## **BARRICADES**

Barricades used for channelization or delineation, pavement repairs, and base failure repairs shall be incidental to "Maintain and Control Traffic". As directed by the Engineer replacements for damaged barrels to be replaced due to poor condition or reflectivity will not be measured for payment.

## **PAVEMENT EDGE DROP-OFFS**

Pavement edge drop-offs will be protected by a lane or shoulder closure. Lane closures will be protected with barrels, vertical panels, or barricades as shown on the Standard Drawings.

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1 ½". Place warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

- Less than 2" – Protect with a lane closure.
- 2" to 4" – Protect with a lane closure. Place barrels, vertical panels, or barricades every 50 feet. Traffic cones may not be used in place of barrels, panels, and barricades at any



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time. Construct a wedge with compacted cuttings from milling, trenching, or asphalt mixtures with a 3:1 or flatter slope, when work is not active in the drop-off area. Place Type III Barricades at the beginning of the lane closures, and place additional Type III Barricades spaced at 2,500 feet during the time the lane closure is in place.

- Guardrail Installation – All areas from which guardrail is removed shall be protected by a shoulder closure or other method approved by the Engineer until the new guardrail is installed.

## **TRAFFIC COORDINATOR**

Designate an employee to be Traffic Coordinator. The designated Traffic Coordinator must be certified by an agency qualified for training in this area. The Traffic Coordinator will inspect the project maintenance of traffic once every two hours during the Contractor's operations and at any time a lane closure is in place. The Traffic Coordinator will report all incidents throughout the work zone to the Engineer on the project. The Contractor will furnish the name and telephone number where the Traffic Coordinator can be contacted always.

During any period when a lane closure is in place, the Traffic Coordinator will arrange for personnel to be present on the project always to inspect the traffic control, maintain the signing and devices, and relocate portable changeable message boards as queue lengths change. The personnel will have access on the project to a radio or telephone to be used in case of emergencies or accidents.

This project is designated as a Significant Project in accordance with Section 112.03.03 of the Kentucky Standard Specifications.

## **COORDINATION OF WORK**

The Contractor is advised that other projects may be in progress within or in the near vicinity of this project. The traffic control of those projects may affect this project and the traffic control of this project may affect those projects. The Contractor will coordinate the work on this project with the work of the other Contractors. In case of conflict, the Engineer will determine the relative priority to give to work phasing on the various projects.

## **CONTRACTOR'S AND CONTRACTOR'S EMPLOYEES' VEHICLES**

Do not use or allow employees to use median crossovers at any time except when inside lanes are closed for construction. In all other phases of construction, change vehicular direction of travel only at interchanges.

## **INCIDENTAL TO MAINTENANCE OF TRAFFIC**

As noted in above paragraphs the following items will not be measured but are considered incidental to "Maintain and Control Traffic."

- Lane and Shoulder Closures
- Barrels and Replacement of Damaged Barrels
- Type III Barricades
- Removal of Existing and Temporary Striping
- Relocations of Portable Changeable Message Signs
- Relocations of Flashing Arrows
- Relocation or Covering of Signs
- Replacement of Damage Signs
- Maintenance of Shoulders to Maintain Traffic

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- Truck Mounted Attenuators
- Removing and Replacing or Covering and Uncovering of Pavement Marker Lenses
- Removal and reset of signs needed to complete shoulder and erosion repairs.



### **SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING**

Begin paving operations immediately after the commencement of the asphalt milling operation. Continue paving operations continuously until completed. Do not allow public traffic to drive on the milled surface. If paving operations are not begun within this time period, liquidated damages will be assessed at the rate prescribed by Section 108.09 of the current Standard Specifications until such time as paving operations are begun.

**Removal of the existing pavement markers prior to the milling operation is considered incidental to the bid item “Asphalt Pavement Milling and Texturing”.**

### **SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS**

The dimensions shown on the typical sections for pavement and shoulder widths are nominal or typical dimensions. The actual dimensions to be constructed or diamond ground may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified elsewhere in the Proposal.



### **SPECIAL NOTE FOR BEFORE YOU DIG**

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

### **Special Note for Fixed Completion Date And Liquidated Damages**

This project will have a fixed completion date of **August 30, 2022** for completion of all work associated with this project.

Liquidated damages per the Standard Specifications will be charged for each calendar day for any work completed after August 30, 2022.

Contrary to Section 108.09 of the Standard Specifications, Liquidated Damages per the Standard Specifications will be charge during the months of December through March for all work that is not completed.



**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 <sup>1</sup> , %	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

<sup>1</sup> 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. Provide the correct nozzles that is recommend by the producer to ensure proper coverage of tack is obtained. 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 minimum rate of 0.70 pounds (0.08 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	15 - 16	14	≤13
			103 - 105	106 - 107	108 - 109	≥ 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

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24970EC	Asphalt Material for Tack Non-Tracking	Ton

January 28, 2020

September 18, 2019

## **SPECIAL NOTE FOR CLASS 1A GEOTEXTILE FABRICS USED IN STRUCTURAL PAVEMENT DESIGNS**

1. **DESCRIPTION.** This special note covers requirements for Class 1A geotextile fabrics to be used for subgrade stabilization that is a part of a structural pavement design.
2. **GEOTEXTILE FABRIC.** Use woven fabric consisting only of long chain polymeric filaments or yarns such as polypropylene formed into a stable network such that the filaments or yarns retain their relative position to each other. Use fabric that is inert to commonly encountered chemicals and free of defects or flaws significantly affecting its physical or filtering properties.

Ensure that the fabric is formed in widths of at least 6 feet. When necessary, sew sheets of fabric together to form required fabric widths. Sew the sheets of fabric together at the point of manufacture or other approved locations.

The geotextile manufacturer is responsible for establishing and maintaining a quality control program to ensure compliance with this section. The manufacturer must participate in the National Transportation Product Evaluation Program (NTPEP) for Geotextiles and Geosynthetics and the product data must be posted in NTPEP DataMine.

2.1 **PACKING.** During all periods of shipment and storage, wrap the fabric in a heavy duty protective covering to protect the fabric from direct sunlight, ultraviolet rays, temperatures greater than 140 °F, mud, dirt, dust, and debris.

2.2 **PHYSICAL REQUIREMENTS.** Class 1A fabrics are to meet the current requirements of AASHTO M288.

2.3 **ACCEPTANCE.** Obtain the Department's approval for all material before incorporating it into the project.

3. **CONSTRUCTION.** The Engineer will reject the fabric if it has defects, rips, holes, flaws, deterioration, or damage. Prepare the surface to receive the fabric to a smooth condition, free of obstructions, debris, or sharp objects that may puncture the fabric. Place the fabric smooth and free of folds, wrinkles, or creases. Do not operate equipment directly on the fabric. Protect the fabric at all times from contamination. Remove and replace any contaminated fabric with uncontaminated fabric.

Repair or replace any fabric damage. Repair individual isolated cuts, tears, or punctures by placing a patch of geotextile fabric that extends at least 3 feet beyond the damage in all directions or by field splicing the patch. Cover the fabric with a layer of the specified material within 14 calendar days. Remove and replace fabric not covered within 14 days.



September 18, 2019

4. ACCEPTANCE PROCEDURES FOR NON-SPECIFICATION FABRIC. Ensure that all geotextile fabric conforms to the requirements of this section. However, when non-specification geotextile fabric is inadvertently incorporated into the work before completion of testing, the Department may accept the material with a reduction in pay, provided the failure is marginal and will not cause poor performance. When the failure is excessive, then remove the geotextile fabric, and replace it unless the Engineer determines that the geotextile fabric can remain in place. The Department will apply the largest payment reduction when the material fails to meet more than one specification requirement. The Department will calculate the payment reduction on the invoice cost of the material delivered at the project site. The Department will reject geotextile fabric that fails and has not been incorporated into the work.

5. FASTENER PINS. The Engineer will accept fastener pins based on visual inspection on the project. Conform to the following:

5.1 SUBGRADE STABILIZATION AND WRAPPED AGGREGATE DRAINAGE BLANKET. Provide fastener pins that are formed of 3/16 inch diameter or heavier steel, pointed at one end, with a head on the opposite end to retain a washer with a minimum diameter of 1 ½ inches.

6. MEASUREMENT. The Department will measure the quantity in square yards. The Department will not measure fabric when the Contract indicates the fabric is incidental to the work or when the specification for another item requires incidental installation of geotextile fabric.

The Department will not measure material in laps or seams.

When fabric is used in conjunction with an aggregate layer, the Department will measure the quantity of (1) the area of the lower surface of the aggregate layer, (2) the area of the upper surface of the aggregate layer, and (3) the area of the sides and ends of the aggregate layer; using the dimensions specified in the Plans for each fabric type that applies to its corresponding location(s).

The Department will not measure for payment the repair or replacement of damaged fabric or replacement of fabric not covered within 14 days.

7. PAYMENT. 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>
02604	FABRIC-GEOTEXTILE CLASS 1A	Square Yard

## SPECIAL NOTE FOR EXPERIMENTAL KYCT AND HAMBURG TESTING

### 1.0 General

**1.1 Description.** The KYCT (Kentucky Method for Cracking Test) and the Hamburg test results will help determine if the mixture is susceptible to cracking and rutting. During the experimental phase, data will be gathered and analyzed by the Department to determine the durability of the bituminous mixes. Additionally, the data will help the Department to create future performance based specifications which will include the KYCT and Hamburg test methods.

### 2.0 Equipment

**2.1 KYCT Testing Equipment.** The Department will require a Marshall Test Press with digital recordation capabilities. Other CT testing equipment may be used for testing with prior approval by the Department.

**2.2 Water Baths.** One or more water baths will be required that can maintain a temperature of 77° +/- 1.8° F with a digital thermometer showing the water bath temperature. Also, one water bath shall have the ability to suspend gyratory specimen fully submerged in water in accordance with AASHTO T-166, current edition.

**2.3 Hamburg Wheel Track Testing.** The department encourages the use of the PTI APA/Hamburg Jr. test equipment to perform the loaded wheel testing. The Department will allow different equipment for the Hamburg testing, but the testing device must be approved by the Department prior to testing.

**2.4 Gyratory Molds.** Gyratory molds will be required to assist in the production of gyratory specimens in accordance with AASHTO T-312, current edition.

**2.5 Ovens.** Adequate (minimum of two ovens) will be required to accommodate the additional molds and asphalt mixture necessary to perform the acceptance testing as outlined in Section 402 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

**2.6 Department Equipment.** The Department will provide gyratory molds, PINE 850 Test Press with digital recordation, and CT testing equipment to assist during this experimental phase so data can be gathered. Hamburg test specimens will be submitted to the Division of Materials for testing on the PTI APA/Hamburg Jr if the asphalt contractor or district materials office does not have an approved Hamburg testing device.

### 3.0 Testing Requirements

**3.1 Acceptance Testing.** Perform all acceptance testing and aggregate gradation as according with Section 402 and Section 403 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

**3.2 KYCT Testing.** Perform crack resistance analysis (KYCT) in accordance with the current Kentucky Method for KYCT Index Testing during the mix design phase and during the plant production of all surface mixtures. For mix design approvals, submit KYCT results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for informational verification.



**3.2.1 KYCT Frequency.** Obtain an adequate sample of hot mix asphalt to insure the acceptance testing, gradation, and KYCT gyratory samples can be fabricated and is representative of the bituminous mixture. Acceptance specimens shall be fabricated first, then immediately after, fabricate the KYCT samples with the gyratory compactor in accordance with Section 2.4 of this Special Note. Analysis of the KYCT specimens and gradation will be required one per subplot produced from the same asphalt material and at the same time as the acceptance specimen is sampled and tested.

**3.2.2 Number of Specimens and Conditioning.** Fabricate specimens in accordance with the Kentucky Method for KYCT Index Testing. Contrary to the method, fabricate a minimum of 3 and up to 6 test specimens. The specimens shall be compacted at the temperature in accordance to KM 64-411. KYCT mix design specimens shall be short-term conditioned for four hours at compaction temperature in accordance to KM 64-411. Contrary to the Kentucky Method, plant produced bituminous material shall be short-term conditioned immediately after sampling for two hours at compaction temperature in accordance to KM 64-411. Additionally, fabricated specimens shall be allowed to cool in air (fan is permissible) for 30 minutes +/- 5 minutes and conditioned in a 77 °F water bath for 30 minutes +/- 5 minutes. To insure confidence and reliability of the test results provided by KYCT testing and Hamburg testing, reheating of the asphalt mixture is prohibited.

**3.2.3 Record Times.** For each subplot, record the time required between drying aggregates in the plant to KYCT specimen fabrication. The production time may vary due to the time that the bituminous material is held in the silo. Record the preconditioning time when the time exceeds the one hour specimen cool down time as required in accordance to The Kentucky Method for KYCT Index Testing. The preconditioning time may exceed an hour if the technician is unable to complete the test on the same day or within the specified times as outlined in The Kentucky Method for KYCT Index Testing. The production time and the preconditioning time shall be recorded on the AMAW.

**3.2.4 File Name.** As according to section 7.12 of The Kentucky Method for KYCT Index Testing, save the filename with the following format; "CID\_Approved Mix Number\_Lot Number\_Sublot Number\_Date"

**3.3 Hamburg Testing.** Perform the rut resistance analysis (Hamburg) in accordance to AASTHO T-324, not to exceed 20,000 passes for all bituminous mixtures during the mix design phase and production. For mix design approvals, submit Hamburg results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for informational verification.

**3.3.1 Hamburg Testing Frequency.** Perform testing and analysis per lot of material. The plant produced bituminous material sampled for the Hamburg test does not have to be obtained at the same time as the acceptance and KYCT sample. If the Hamburg test sample is not obtained at the same time as the KYCT sample, determine the Maximum Specific Gravity of the KYCT sample in accordance with AASHTO T-209 coinciding with the Hamburg specimens.

**3.3.2 Record Times.** Record the production time as according to section 3.2.3 in this special note. Also record the time that the specimens were fabricated and the time the Hamburg testing was started. All times shall be recorded on the AMAW.

**3.3.3 File Name.** Save the Excel spreadsheet with the following file name; “Hamburg\_CID\_Approved Mix Number\_Lot Number\_Sublot Number\_Date” and upload the file into the AMAW.

#### **4.0 Data**

Submit the AMAW and all test data that was obtained for acceptance, gradation, KYCT, and Hamburg testing within five working days once all testing has been completed for a lot to Central Materials Lab and the District Materials Engineer. Also, any data and or comments that the asphalt contractor or district personnel deem informational during this experimental phase, shall also be submitted to the Central Materials Lab and the District Materials Engineer. Any questions or comments regarding any item in this Special Note can be directed to the Central Office, Division of Materials, Asphalt Branch.

#### **5.0 KYCT Video Demonstration**

<https://www.youtube.com/watch?v=84j0bM45-hg&feature=youtu.be>

#### **6.0 Payment**

Any additional labor and testing equipment that is required to fabricate and test the KYCT and Hamburg specimens shall be considered to be incidental to the asphalt surface line item. The Department will perform the testing for the KYCT and Hamburg specimens if a producer does not possess the proper equipment.

June 3, 2019



## **SPECIAL NOTE FOR HMA ELECTRONIC DELIVERY MANAGEMENT SYSTEM (HMA e-Ticketing)**

This Special Note will apply when indicated on the plans or in the proposal. Section references herein are to the Department's Standard Specifications for Road and Bridge Construction current edition.

**1.0 DESCRIPTION.** Incorporate a GPS Fleet Management System for all HMA delivered to the project in order to monitor, track, and report loads of HMA during the construction processes from the point of measurement and loading to the point of incorporation to the project.

**2.0 MATERIALS AND EQUIPMENT.** Submit to the Engineer for approval, no fewer than 30 days prior to HMA placement activities, a GPS fleet management system supplier that can provide a qualified representative for on-site technical assistance during the initial setup, pre-construction verifications, and data management and processing as needed during the Project to maintain equipment.

Provide operator settings, user manuals, training videos, and required viewing/export software for review. Provide equipment that will meet the following:

1. A wireless fleet management or GPS device that is capable of tracking all delivery trucks (both company-owned and third-party) must be installed on all trucks and equipment (dump trucks, belly dumps, side-load dumps, transfer vehicles, pavers, or any other trucks/vehicles) used to transfer and incorporate HMA into the project. KYTC personnel shall have the ability to access Real Time monitoring through the use of a mobile device such as an iPad, smartphone, etc.
2. The fleet management system shall be fully integrated with the Contractor's Load Read-Out scale system at the HMA plant site.
3. The fleet management system shall have the ability to measure and track vehicles and their contents (weights and material types) continuously from the plant site to the project site. The system shall have internal battery backup capabilities due to loss of power, and have the ability to store data if GPS connectivity is lost and transmit that same data when unit re-establishes connectivity. To be considered continuous, no two data points shall be more than 60 seconds apart unless the vehicle is stopped. Duration of stop time for any reason shall be recorded.

**3.0 CONSTRUCTION.** Provide the Engineer with the manufacturer's specifications and all required documentation for data access at the pre-construction conference.

### **A. Construction Requirements**

1. Install and operate equipment in accordance with the manufacturer's specifications.
2. Verify the GPS is working within the requirements of this Special Note.

### **B. Data Deliverables**

Provide to the Engineer a means in which to gather report summaries by way of iOS apps, web pages, or any other method at the disposal of the Engineer. The Engineer may request data at any time during paving operations.

### 1. Real-time Continuous Data Items

Provide the Engineer access to a GIS map-based data viewer which displays the following information in real-time with a web-based system compatible with iOS and Windows environments.

- Each Truck
  - UniqueTruck ID
  - Truck status
    - Time At Source
    - Time At Destination
    - Time At Paver
    - Time At Scale
    - Time to and from plant/job
    - Time Stopped with Engine Running
  - Time of last transmission
  - Location (Latitude and Longitude in decimal degrees to nearest 0.0000001) every 60 seconds
  - Description of Material being transported (i.e. asphalt base, asphalt surface)
  - Mix Design Number
  - Net Weight of material being transported to the nearest 0.01 ton
  - Running Daily Total of Net Weight of material being transported to nearest 0.01 ton.
  - Project Number
- Scale Location
- Project Location
- Point of Delivery (i.e. paver)

### 2. Daily Summary

The following summary information shall be provided to the Engineer electronically within 4 hours of beginning operations on the next working day

- For each Material
  - List of Individual Loads
    - Contractor Name
    - Project Number
    - Unique Truck ID
    - Net Weight For Payment (nearest 0.01 tons)
    - Date
    - Mix Temperature at Time of Loading, Fahrenheit (to be key entered by plant)
    - Time Loaded
    - Time Unloaded
    - Delivery Location (Latitude/Longitude in decimal degrees to nearest 0.0000001)
- For each Bid Item
  - Total Quantity for Payment (nearest 0.01 tons)

**4.0 MEASUREMENT.** The Department will measure the HMA electronic delivery management system as a lump sum item.



**5.0 PAYMENT.** The Department will make payment for the completed and accepted quantities under the following:

- 1. Payment is full compensation for all work associated with providing all required equipment, training, and documentation.
- 2. Delays due to GPS satellite reception of signals or equipment breakdowns will not be considered justification for contract modifications or contract extensions.
- 3. Payment will be full compensation for costs related to providing the GPS system, including all equipped pavers and transfer vehicles, integration with plant load-out systems, and any software required for the construction and reporting process. All quality control procedures including the GPS systems representative’s technical support and on-site training shall be included in the Contract lump sum price.


<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24986EC	HMA ELECTRONIC DELIVERY MANAGEMENT SYSTEM	LS



KENTUCKY TRANSPORTATION CABINET  
Department of Highways  
DIVISION OF RIGHT OF WAY & UTILITIES

TC 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)
03-20004.0 & 3-20013.0	Barren & Metcalfe	FD52 005 9008 020-022 FD52 085 9008 022-037	NHPP 9008(003)
PROJECT DESCRIPTION			
Asphalt pavement rehabilitation on Cumberland Parkway MP 20.1 - 36.159.			
<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			
Signed Deed			
Condemnation			
Signed ROE			
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Allen Arnold
Signature		Signature	allen arnold Digitally signed by allen arnold Date: 2021.06.01 14:12:05 -05'00'
Date		Date	06/01/2021
Right of Way Director		FHWA	
Printed Name		Printed Name	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Signature	 2021.06.02	Signature	
Date	16:28:03 -05'00'	Date	



## UTILITIES AND RAIL CERTIFICATION NOTE

**COUNTIES: BARREN & METCALFE, FEDERAL NO. NHPP 9008(003)  
PROJECT NO.S FD52 005 9008 020-022 & FD52 085 9008 022-037  
ROAD NAME: CUMBERLAND PARKWAY / MP 20.100 – 36.159  
SIX YEAR PLAN ITEM NUMBERS: 3-20004.00 & 3-20013.00**

Utility coordination efforts conducted by the project sponsor have 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.

### THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

☒ No Rail Involved    ☐ Minimal Rail Involved (See Below)    ☐ Rail Involved (See Below)

### UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

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. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation.

The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

### SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The

Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

## UTILITIES AND RAIL CERTIFICATION NOTE

**COUNTIES: BARREN & METCALFE, FEDERAL NO. NHPP 9008(003)  
PROJECT NO.S FD52 005 9008 020-022 & FD52 085 9008 022-037  
ROAD NAME: CUMBERLAND PARKWAY / MP 20.100 – 36.159  
SIX YEAR PLAN ITEM NUMBERS: 3-20004.00 & 3-20013.00**

The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

***Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.***

### **AREA UTILITIES CONTACT LIST AS PROVIDED BY KY 811**



MATERIAL SUMMARY

CONTRACT ID: 211325

121GR21D025-NHPP

DE00590082125

LOUIE B. NUNN CUMBERLAND PARKWAY (PK 9008) BEGINNING AT MP 20.1 EXTENDING EAST TO THE BARREN-METCALFE COUNTY LINE MP 22.357 ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF 2.26 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	2,611.00	TON
0010	00100	ASPHALT SEAL AGGREGATE	423.00	TON
0015	00103	ASPHALT SEAL COAT	51.00	TON
0020	00190	LEVELING & WEDGING PG64-22	305.00	TON
0025	00193	ASPHALT SCRATCH COURSE PG76-22	1,918.00	TON
0030	00216	CL3 ASPH BASE 1.00D PG76-22	60.00	TON
0035	00301	CL2 ASPH SURF 0.38D PG64-22	2,179.00	TON
0040	00336	CL3 ASPH SURF 0.38A PG76-22	6,101.00	TON
0045	02677	ASPHALT PAVE MILLING & TEXTURING	1,790.00	TON
0050	20071EC	JOINT ADHESIVE	47,544.00	LF
0055	23593EC	SHOULDER FAILURE REPAIR	51.00	SQYD
0060	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	60.00	TON
0065	00078	CRUSHED AGGREGATE SIZE NO 2	277.00	TON
0070	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	171.00	EACH
0075	02200	ROADWAY EXCAVATION	340.00	CUYD
0080	02351	GUARDRAIL-STEEL W BEAM-S FACE	13,317.00	LF
0085	02367	GUARDRAIL END TREATMENT TYPE 1	5.00	EACH
0090	02369	GUARDRAIL END TREATMENT TYPE 2A	9.00	EACH
0095	02373	GUARDRAIL END TREATMENT TYPE 3	4.00	EACH
0100	02381	REMOVE GUARDRAIL	13,567.00	LF
0105	02562	TEMPORARY SIGNS	1,000.00	SQFT
0110	02575	DITCHING AND SHOULDERING	11,886.00	LF
0115	02575	DITCHING AND SHOULDERING - SPECIAL	163.00	LF
0120	02650	MAINTAIN & CONTROL TRAFFIC - (BARREN COUNTY)	1.00	LS
0125	02671	PORTABLE CHANGEABLE MESSAGE SIGN	1.00	EACH
0130	02676	MOBILIZATION FOR MILL & TEXT - (BARREN COUNTY)	1.00	LS
0135	02696	SHOULDER RUMBLE STRIPS	47,544.00	LF
0140	02726	STAKING - (BARREN COUNTY)	1.00	LS
0145	02775	ARROW PANEL	1.00	EACH
0150	05950	EROSION CONTROL BLANKET	15,150.00	SQYD
0155	06511	PAVE STRIPING-TEMP PAINT-6 IN	47,544.00	LF
0160	06542	PAVE STRIPING-THERMO-6 IN W	29,715.00	LF
0165	06543	PAVE STRIPING-THERMO-6 IN Y	23,772.00	LF
0170	06549	PAVE STRIPING-TEMP REM TAPE-B	1,700.00	LF
0175	06550	PAVE STRIPING-TEMP REM TAPE-W	1,700.00	LF
0180	06551	PAVE STRIPING-TEMP REM TAPE-Y	1,700.00	LF
0185	10020NS	FUEL ADJUSTMENT	17,384.00	DOLL
0190	10030NS	ASPHALT ADJUSTMENT	41,341.00	DOLL
0195	20191ED	OBJECT MARKER TY 3	5.00	EACH
0200	20550ND	SAWCUT PAVEMENT	178.00	LF
0205	22883EN	CONCRETE WEDGE CURB	8,603.00	LF
0210	23954EC	REMOVE EXISTING WEDGE CURB	8,603.00	LF

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0215	24489EC	INLAID PAVEMENT MARKER	297.00	EACH
0220	00080	CRUSHED AGGREGATE SIZE NO 23	5.00	TON
0225	02165	REMOVE PAVED DITCH	1,489.00	SQYD
0230	02483	CHANNEL LINING CLASS II	555.00	TON
0235	02602	FABRIC-GEOTEXTILE CLASS 1	10.00	SQYD
0240	24522EC	REPAIR - (DRAINAGE FAILURE NO. 1)	1.00	LS
0245	02568	MOBILIZATION	1.00	LS
0250	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 211325

121GR21D025-NHPP

DE08590082125

LOUIE B. NUNN CUMBERLAND PARKWAY (PW 9008) BEGINNING AT THE BARREN-METCALFE COUNTY LINE MP 22.357 EXTENDING EAST TO MP 36.159 ASPHALT PAVEMENT & ROADWAY REHAB, A DISTANCE OF 13.8 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0255	00001	DGA BASE	14,209.00	TON
0260	00100	ASPHALT SEAL AGGREGATE	2,479.00	TON
0265	00103	ASPHALT SEAL COAT	297.00	TON
0270	00190	LEVELING & WEDGING PG64-22	1,762.00	TON
0275	00193	ASPHALT SCRATCH COURSE PG76-22	11,211.00	TON
0280	00216	CL3 ASPH BASE 1.00D PG76-22	14.00	TON
0285	00301	CL2 ASPH SURF 0.38D PG64-22	12,553.00	TON
0290	00336	CL3 ASPH SURF 0.38A PG76-22	35,703.00	TON
0295	02677	ASPHALT PAVE MILLING & TEXTURING	10,206.00	TON
0300	03240	BASE FAILURE REPAIR	21.00	SQYD
0305	20071EC	JOINT ADHESIVE	278,925.00	LF
0310	20757ED	PAVEMENT REPAIR	126.00	SQYD
0315	23593EC	SHOULDER FAILURE REPAIR	913.00	SQYD
0320	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	348.00	TON
0325	00078	CRUSHED AGGREGATE SIZE NO 2	571.00	TON
0330	01690	FLUME INLET TYPE 1	6.00	EACH
0335	01691	FLUME INLET TYPE 2	4.00	EACH
0340	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	808.00	EACH
0345	02351	GUARDRAIL-STEEL W BEAM-S FACE	59,070.00	LF
0350	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	6.00	EACH
0355	02367	GUARDRAIL END TREATMENT TYPE 1	49.00	EACH
0360	02369	GUARDRAIL END TREATMENT TYPE 2A	61.00	EACH
0365	02373	GUARDRAIL END TREATMENT TYPE 3	9.00	EACH
0370	02381	REMOVE GUARDRAIL	60,807.00	LF
0375	02387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	6.00	EACH
0380	02562	TEMPORARY SIGNS	4,000.00	SQFT
0385	02575	DITCHING AND SHOULDERING	67,931.00	LF
0390	02575	DITCHING AND SHOULDERING - SPECIAL	1,069.00	LF
0395	02650	MAINTAIN & CONTROL TRAFFIC - (METCALFE COUNTY)	1.00	LS
0400	02671	PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH



MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0405	02676	MOBILIZATION FOR MILL & TEXT - (METCALFE COUNTY)	1.00	LS
0410	02696	SHOULDER RUMBLE STRIPS	278,679.00	LF
0415	02726	STAKING - (METCALFE COUNTY)	1.00	LS
0420	02775	ARROW PANEL	3.00	EACH
0425	05950	EROSION CONTROL BLANKET	33,055.00	SQYD
0430	06511	PAVE STRIPING-TEMP PAINT-6 IN	289,216.00	LF
0435	06542	PAVE STRIPING-THERMO-6 IN W	187,625.00	LF
0440	06543	PAVE STRIPING-THERMO-6 IN Y	150,658.00	LF
0445	06546	PAVE STRIPING-THERMO-12 IN W	3,668.00	LF
0450	06549	PAVE STRIPING-TEMP REM TAPE-B	1,700.00	LF
0455	06550	PAVE STRIPING-TEMP REM TAPE-W	1,700.00	LF
0460	06551	PAVE STRIPING-TEMP REM TAPE-Y	1,700.00	LF
0465	06556	PAVE STRIPING-DUR TY 1-6 IN W	1,571.00	LF
0470	06557	PAVE STRIPING-DUR TY 1-6 IN Y	1,256.00	LF
0475	06568	PAVE MARKING-THERMO STOP BAR-24IN	82.00	LF
0480	10020NS	FUEL ADJUSTMENT	100,437.00	DOLL
0485	10030NS	ASPHALT ADJUSTMENT	239,432.00	DOLL
0490	20191ED	OBJECT MARKER TY 3	48.00	EACH
0495	22664EN	WATER BLASTING EXISTING STRIPE	22,310.00	LF
0500	22883EN	CONCRETE WEDGE CURB	21,855.00	LF
0505	23954EC	REMOVE EXISTING WEDGE CURB	17,085.00	LF
0510	24489EC	INLAID PAVEMENT MARKER	2,092.00	EACH
0515	00080	CRUSHED AGGREGATE SIZE NO 23	25.00	TON
0520	00461	CULVERT PIPE-15 IN	12.00	LF
0525	00462	CULVERT PIPE-18 IN	8.00	LF
0530	00464	CULVERT PIPE-24 IN	24.00	LF
0535	00468	CULVERT PIPE-36 IN	12.00	LF
0540	01202	PIPE CULVERT HEADWALL-15 IN	1.00	EACH
0545	01208	PIPE CULVERT HEADWALL-24 IN	1.00	EACH
0550	01212	PIPE CULVERT HEADWALL-36 IN	1.00	EACH
0555	01310	REMOVE PIPE	45.00	LF
0560	01450	S & F BOX INLET-OUTLET-18 IN	1.00	EACH
0565	01720	RECONSTRUCT INLET	1.00	EACH
0570	02165	REMOVE PAVED DITCH	4,901.00	SQYD
0575	02483	CHANNEL LINING CLASS II	1,107.00	TON
0580	02484	CHANNEL LINING CLASS III	35.00	TON
0585	02602	FABRIC-GEOTEXTILE CLASS 1	80.00	SQYD
0590	02607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	77.00	SQYD
0595	02625	REMOVE HEADWALL	4.00	EACH
0600	20366NN	REPLACE GRATE	3.00	EACH
0605	24522EC	REPAIR - (DRAINAGE FAILURE NO. 2)	1.00	LS
0610	24522EC	REPAIR - (DRAINAGE FAILURE NO. 3)	1.00	LS
0615	24522EC	REPAIR - (DRAINAGE FAILURE NO. 6)	1.00	LS
0620	24522EC	REPAIR - (DRAINAGE FAILURE NO. 7)	1.00	LS
0625	24522EC	REPAIR - (DRAINAGE FAILURE NO. 8)	1.00	LS
0630	24731EC	REMOVE AND RESET - (HDWL)	1.00	EACH
0635	02568	MOBILIZATION	1.00	LS
0640	02569	DEMOBILIZATION	1.00	LS

Contract Id: \_\_\_\_\_ Contractor: \_\_\_\_\_

Section Engineer: \_\_\_\_\_ District & County: \_\_\_\_\_

DESCRIPTION	UNIT	QTY LEAVING PROJECT	QTY RECEIVED@BB YARD
GUARDRAIL (Includes End treatments & crash cushions)	LF	_____	_____
STEEL POSTS	EACH	_____	_____
STEEL BLOCKS	EACH	_____	_____
WOOD OFFSET BLOCKS	EACH	_____	_____
BACK UP PLATES	EACH	_____	_____
CRASH CUSHION	EACH	_____	_____
NUTS, BOLTS, WASHERS	BAG/BCKT	_____	_____
DAMAGED RAIL TO MAINT. FACILITY	LF	_____	_____
DAMAGED POSTS TO MAINT. FACILITY	EACH	_____	_____

**\*Required Signatures before Leaving Project Site**

Printed Section Engineer’s Representative\_\_\_\_\_ & Date\_\_\_\_\_

Signature Section Engineer’s Representative\_\_\_\_\_ & Date\_\_\_\_\_

Printed Contractor’s Representative\_\_\_\_\_ & Date\_\_\_\_\_

Signature Contractor’s Representative\_\_\_\_\_ & Date\_\_\_\_\_

**\*Required Signatures after Arrival at Bailey Bridge Yard (All material on truck must be counted & the quantity received column completed before signatures)**

Printed Bailey Bridge Yard Representative\_\_\_\_\_ & Date\_\_\_\_\_

Signature Bailey Bridge Yard Representative\_\_\_\_\_ & Date\_\_\_\_\_

Printed Contractor’s Representative\_\_\_\_\_ & Date\_\_\_\_\_

Signature Contractor’s Representative\_\_\_\_\_ & Date\_\_\_\_\_

\*\*Payment for the bid item remove guardrail will be based upon the quantities shown in the Bailey Bridge Yard received column. Payment will not be made for guardrail removal until the guardrail verification sheets are electronically submitted to the Section Engineer by the Bailey Bridge Yard Representative.



## **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.



- 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



**SPECIAL NOTE FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE**

1. DESCRIPTION. This specification covers the requirements and practices for applying an asphalt adhesive material to the longitudinal joint of the surface course of an asphalt pavement. Apply the adhesive to the face of longitudinal joint between driving lanes for the first lane paved. Then, place and compact the adjacent lane against the treated face to produce a strong, durable, waterproof longitudinal joint.
2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Joint Adhesive. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide an adhesive conforming to the following requirements:

Property	Specification	Test Procedure
Viscosity, 400 ° F (Pa·s)	4.0 – 10.0	ASTM D 4402
Cone Penetration, 77 ° F	60 – 100	ASTM D 5329
Flow, 140 ° F (mm)	5.0 max.	ASTM D 5329
Resilience, 77 ° F (%)	30 min.	ASTM D 5329
Ductility, 77 ° F (cm)	30.0 min.	ASTM D 113
Ductility, 39 ° F (cm)	30.0 min.	ASTM D 113
Tensile Adhesion, 77 ° F (%)	500 min.	ASTM D 5329, Type II
Softening Point, ° F	171 min.	AASHTO T 53
Asphalt Compatibility	Pass	ASTM D 5329

Ensure the temperature of the pavement joint adhesive is between 380 and 410 °F when the material is extruded in a 0.125-inch-thick band over the entire face of the longitudinal joint.

2.2. Equipment.

2.2.1 Melter Kettle. Provide an oil-jacketed, double-boiler, melter kettle equipped with any needed agitation and recirculating systems.

2.2.2 Applicator System. Provide a pressure-feed-wand applicator system with an applicator shoe attached.

2.3 Personnel. Ensure a technical representative from the manufacturer of the pavement joint adhesive is present during the initial construction activities and available upon the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the pavement joint adhesive, ensure the face of the longitudinal joint is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the joint face by the use of compressed air.

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Ensure this preparation process occurs shortly before application to prevent the return of debris on the joint face.

3.2 Pavement Joint Adhesive Application. Ensure the ambient temperature is a minimum of 40 ° F during the application of the pavement joint adhesive. Prior to applying the adhesive, demonstrate competence in applying the adhesive according to this note to the satisfaction of the Engineer. Heat the adhesive in the melter kettle to the specified temperature range. Pump the adhesive from the melter kettle through the wand onto the vertical face of the cold joint. Apply the adhesive in a continuous band over the entire face of the longitudinal joint. Do not use excessive material in either thickness or location. Ensure the edge of the extruded adhesive material is flush with the surface of the pavement. Then, place and compact the adjacent lane against the joint face. Remove any excessive material extruded from the joint after compaction (a small line of material may remain).

3.3 Pavement Joint Adhesive Certification. Furnish the joint adhesive's 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 random sample of pavement joint adhesive from each manufacturer's lot of material. Extrude two 5 lb. samples of the heated material and forward the sample to the Division of Materials for testing. Reynolds oven bags, turkey size, placed inside small cardboard boxes or cement cylinder molds have been found suitable. Ensure the product temperature is 400°F or below at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of Pavement Joint Adhesive in linear feet. 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 Pavement Joint Adhesive, the cleaning of the joint face, or furnishing and placing the adhesive. The Department will consider all such items incidental to the Pavement Joint Adhesive.
5. PAYMENT. The Department will pay for the Pavement Joint Adhesive 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.



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Pavement Joint Adhesive Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Joint Adhesive Referenced in Subsection 2.1.1						
Viscosity, 400 ° F (Pa•s)			3.0-3.4	2.5-2.9	2.0-2.4	≤1.9
ASTM D 3236	4.0-10.0	3.5-10.5	10.6-11.0	11.1-11.5	11.6-12.0	≥ 12.1
Cone Penetration, 77 ° F			54-56	51-53	48-50	≤ 47
ASTM D 5329	60-100	57-103	104-106	107-109	110-112	≥ 113
Flow, 140 ° F (mm) ASTM D 5329	≤ 5.0	≤ 5.5	5.6-6.0	6.1-6.5	6.6-7.0	≥ 7.1
Resilience, 77 ° F (%) ASTM D 5329	≥ 30	≥ 28	26-27	24-25	22-23	≤ 21
Tensile Adhesion, 77 ° F (%) ASTM D 5329	≥ 500	≥ 490	480-489	470-479	460-469	≤ 459
Softening Point, ° F AASHTO T 53	≥ 171	≥ 169	166-168	163-165	160-162	≤ 159
Ductility, 77 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9
Ductility, 39 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9

Code  
20071EC

Pay Item  
Joint Adhesive

Pay Unit  
Linear Foot

May 7, 2014

## **PART III**

### **EMPLOYMENT, WAGE AND RECORD REQUIREMENTS**



FHWA-1273 -- Revised May 1, 2012

## REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

### ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

### I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

### II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

**6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are



applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

**10. Assurance Required by 49 CFR 26.13(b):**

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

**III. NONSEGREGATED FACILITIES**

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

**IV. DAVIS-BACON AND RELATED ACT PROVISIONS**

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

**1. Minimum wages**

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or



will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## 2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## 3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and trainees

##### a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.



d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility.**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

**3. Withholding for unpaid wages and liquidated damages.** The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

## VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

## VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

## VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:



"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

**IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

- 1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
- 2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

**X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

**1. Instructions for Certification – First Tier Participants:**

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

\* \* \* \* \*

## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

## **2. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

\* \* \* \* \*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

\* \* \* \* \*

**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.



**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

**KENTUCKY TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS**

**EMPLOYMENT REQUIREMENTS  
RELATING TO  
NONDISCRIMINATION OF EMPLOYEES  
(APPLICABLE TO FEDERAL-AID SYSTEM CONTRACTS)**

**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.

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

### Standard Title VI/Non-Discrimination Assurances

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, **Federal Highway Administration**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the **Federal Highway Administration** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the **Federal Highway Administration**, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the **Federal Highway Administration** may determine to be appropriate, including, but not limited to:
  - a. withholding payments to the contractor under the contract until the contractor complies; and/or
  - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the **Federal Highway Administration** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.



### **Standard Title VI/Non-Discrimination Statutes and Authorities**

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

## 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.

"General Decision Number: KY20210107 01/01/2021

Superseded General Decision Number: KY20200107

State: Kentucky

Construction Type: Highway

Counties: Adair, Barren, Bell, Breathitt, Casey, Clay, Clinton, Cumberland, Estill, Floyd, Garrard, Green, Harlan, Hart, Jackson, Johnson, Knott, Knox, Laurel, Lawrence, Lee, Leslie, Letcher, Lincoln, Magoffin, Martin, McCreary, Menifee, Metcalfe, Monroe, Morgan, Owsley, Perry, Pike, Powell, Pulaski, Rockcastle, Russell, Taylor, Wayne, Whitley and Wolfe Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/01/2021

SUKY2015-047 10/20/2015

	Rates	Fringes
BOILERMAKER.....	\$ 24.65	12.94



BRICKLAYER		
Bricklayer.....	\$ 22.90	8.50
Stone Mason.....	\$ 21.50	8.50
CARPENTER		
Carpenter.....	\$ 24.90	14.50
Piledriver.....	\$ 24.55	14.50
CEMENT MASON.....	\$ 21.25	8.50
ELECTRICIAN		
Electrician.....	\$ 29.36	10.55
Equipment Operator.....	\$ 26.90	10.31
Groundsman.....	\$ 17.79	8.51
Lineman.....	\$ 30.09	10.94
When workmen are required to work from bosum chairs, trusses, stacks, tanks, scaffolds, catwalks, radio and T.V. towers, structural steel (open, unprotected, unfloored raw steel), and bridges or similar hazardous locations where workmen are subject to fall, except where using JLG's and bucket trucks up to 75 feet: Add 25% to workman's base rate for 50 to 75 feet, and add 50% to workman's base rate for over 75 feet.		
IRONWORKER.....	\$ 27.56	20.57
LABORER		
Group 1.....	\$ 21.80	12.36
Group 2.....	\$ 22.05	12.36
Group 3.....	\$ 22.10	12.36
Group 4.....	\$ 22.70	12.36
GROUP 1: Aging and Curing of Concrete (Any Mode or Method), Asbestos Abatement Worker, Asphalt Plant Laborers, Asphalt Laborers, Batch Truck Dumpers, Carpenter Tenders, Cement Mason Tenders, Cleaning of Machines, Concrete Laborers, Demolition Laborers, Dredging Laborers, Drill Tender, Environmental Laborer - Nuclear, Radiation, Toxic and Hazardous Waste - Level D, Flagmen, Grade Checkers, All Hand Digging and Hand Back Filling, Highway Marker Placers, Landscaping Laborers, Mesh Handlers and Placers, Puddler, Railroad Laborers, Rip-rap and Grouters, Right of Way Laborers, Sign, Guard Rail and Fence Installers (All Types), Signalmen, Sound Barrier Installer, Storm and Sanitary Sewer Laborers, Swampers, Truck Spotters and Dumpers, Wrecking of Concrete Forms, General Cleanup		
GROUP 2: Batter Board Men (Sanitary and Storm Sewer), Brickmason Tenders, Mortar Mixer Operator, Scaffold Builders, Burner and Welder, Bushammers, Chain Saw Operator, Concrete Saw Operators, Deckhand Scow Man, Dry Cement Handlers, Environmental Laborers - Nuclear, Radiation, Toxic and Hazardous Waste - Level C, Forklift Operators for Masonry, Form Setters, Green Concrete Cutting, Hand Operated Grouter and Grinder Machine Operator, Jack Hammers, Lead Paint Abatement, Pavement Breakers, Paving Joint Machine, Pipe Layers - Laser Operators (Non-metallic), Plastic Pipe Fusion, Power Driven Georgia Buggy and Wheel Barrow, Power Post Hole Diggers, Precast Manhole Setters, Walk-behind Tampers, Walk-behind Trenchers, Sand Blasters, Concrete Chippers, Surface Grinders, Vibrator Operators, Wagon Drillers		
GROUP 3: Air Track Driller (All Types), Asphalt Luteman and Rakers, Gunnite Nozzleman, Gunnite Operators and Mixers, Grout		

Pump Operator, Powderman and Blaster, Side Rail Setters, Rail  
Paved Ditches, Screw Operators, Tunnel Laborers (Free Air),  
Water Blasters

GROUP 4: Caisson Workers (Free Air), Cement Finishers,  
Environmental Laborer - Nuclear, Radiation, Toxic and  
Hazardous Waste - Level A and B, miners and Drillers (Free  
Air), Tunnel Blasters, and Tunnel Mockers (Free Air),  
Directional and Horizontal Boring, Air Track Drillers (All  
Types), Powder Man and Blasters, Troxler and Concrete Tester  
if Laborer is Utilized

PAINTER

All Excluding Bridges.....	\$ 19.92	9.57
Bridges.....	\$ 23.92	10.07

PLUMBER.....	\$ 22.52	7.80
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POWER EQUIPMENT OPERATOR:

Group 1.....	\$ 29.95	14.40
Group 2.....	\$ 29.95	14.40
Group 3.....	\$ 27.26	14.40
Group 4.....	\$ 26.96	14.40

GROUP 1: Auto Patrol, Batcher Plant, Bituminous Paver, Cable-  
Way, Clamshell, Concrete Mixer (21 cu ft or over), Concrete  
Pump, Crane, Crusher Plant, Derrick, Derrick Boat, Ditching  
and Trenching Machine, Dragline, Dredge Engineer, Elevator  
(regardless of ownership when used for hoisting any building  
material), Elevating Grader and all types of Loaders, Hoe-type  
Machine, Hoisting Engine, Locomotive, LeTourneau or Carry-all  
Scoop, Bulldozer, Mechanic, Orangepeel Bucket, Piledriver,  
Power Blade, Roller (Bituminous), Roller (Earth), Roller  
(Rock), Scarifier, Shovel, Tractor Shovel, Truck Crane, Well  
Point, Winch Truck, Push Dozer, Grout Pump, High Lift, Fork  
Lift (regardless of lift height), all types of Boom Cats,  
Multiple Operator, Core Drill, Tow or Push Boat, A-Frame Winch  
Truck, Concrete Paver, Grade-All, Hoist, Hyster, Material  
Pump, Pumpcrete, Ross Carrier, Sheepfoot, Sideboom, Throttle-  
Valve Man, Rotary Drill, Power Generator, Mucking Machine,  
Rock Spreader attached to Equipment, Scoopmobile, KeCal  
Loader, Tower Cranes,(French, German and other types),  
Hydrocrane, Tugger, Backfiller Gurries, Self-propelled  
Compactor, Self-Contained Hydraulic Percussion Drill

GROUP 2: All Air Compressors (200 cu ft/min or greater),  
Bituminous Mixer, Concrete Mixer (21 cu. ft. or over), Welding  
Machine, Form Grader, Tractor (50 hp and over), Bull Float,  
Finish Machine, Outboard Motor Boat, Brakeman, Mechanic  
Tender, Whirly Oiler, Tract-air, Road Widening Trencher,  
Articulating Trucks

GROUP 3: Greaser on Grease Facilities servicing Heavy  
Equipment

GROUP 4: Bituminous Distributor, Cement Gun, Conveyor, Mud  
Jack, Paving Joint Machine, Pump, Tamping Machine, Tractor  
(under 50 hp), Vibrator, Oiler, Air Compressor (under 200 cu  
ft per minute), Concrete Saw, Burlap and Curing Machine, Hydro  
Seeder, Power Form Handling Equipment, Deckhand Oiler,  
Hydraulic Post Driver

SHEET METAL WORKER.....	\$ 20.40	7.80
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TRUCK DRIVER		
Driver (3 Tons and Over), Driver (Truck Mounted Rotary Drill).....	\$ 23.74	14.50
Driver (3 Tons and Under), Tire Changer and Truck Mechanic Tender.....	\$ 23.53	14.50
Driver (Semi-Trailer or Pole Trailer), Driver (Dump Truck, Tandem Axle), Driver of Distributor.....	\$ 23.40	14.50
Driver on Mixer Trucks (All Types).....	\$ 23.45	14.50
Driver on Pavement Breakers.	\$ 23.55	14.50
Driver, Euclid and Other Heavy Earth Moving Equipment and Low Boy.....	\$ 24.31	14.50
Driver, Winch Truck and A- Frame when used in Transporting Materials.....	\$ 23.30	14.50
Greaser on Greasing Facilities.....	\$ 24.40	14.50
Truck Mechanic.....	\$ 23.50	14.50
Truck Tender and Warehouseman.....	\$ 23.20	14.50
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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the



cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is

based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

**TO: EMPLOYERS/EMPLOYEES**

**PREVAILING WAGE SCHEDULE:**

**The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.**

**OVERTIME:**

**Overtime is to be paid to an employee at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty (40) hours in such workweek. Wage violations or questions should be directed to the designated Engineer or the undersigned.**

Director  
Division of Construction Procurement  
Frankfort, Kentucky 40622  
502-564-3500



**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

<b>GOALS FOR MINORITY PARTICIPATION IN EACH TRADE</b>	<b>GOALS FOR FEMALE PARTICIPATION IN EACH TRADE</b>
12.0%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director  
Office of Federal Contract Compliance Programs  
61 Forsyth Street, SW, Suite 7B75  
Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Barren County.

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

<b>GOALS FOR MINORITY PARTICIPATION IN EACH TRADE</b>	<b>GOALS FOR FEMALE PARTICIPATION IN EACH TRADE</b>
12.0%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

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**Evelyn Teague, Regional Director  
Office of Federal Contract Compliance Programs  
61 Forsyth Street, SW, Suite 7B75  
Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Metcalfe County.

## **PART IV**

## **INSURANCE**

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



**PART V**

**BID ITEMS**

211325

PROPOSAL BID ITEMS

Report Date 6/30/21

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	16,820.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	2,902.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	348.00	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	2,067.00	TON		\$	
0050	00193		ASPHALT SCRATCH COURSE PG76-22	13,129.00	TON		\$	
0060	00216		CL3 ASPH BASE 1.00D PG76-22	74.00	TON		\$	
0070	00301		CL2 ASPH SURF 0.38D PG64-22	14,732.00	TON		\$	
0080	00336		CL3 ASPH SURF 0.38A PG76-22	41,804.00	TON		\$	
0090	02677		ASPHALT PAVE MILLING & TEXTURING	11,996.00	TON		\$	
0100	03240		BASE FAILURE REPAIR	21.00	SQYD		\$	
0110	20071EC		JOINT ADHESIVE	326,469.00	LF		\$	
0120	20757ED		PAVEMENT REPAIR	126.00	SQYD		\$	
0130	23593EC		SHOULDER FAILURE REPAIR	964.00	SQYD		\$	
0140	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING	408.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0150	00078		CRUSHED AGGREGATE SIZE NO 2	848.00	TON		\$	
0160	01690		FLUME INLET TYPE 1	6.00	EACH		\$	
0170	01691		FLUME INLET TYPE 2	4.00	EACH		\$	
0180	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	979.00	EACH		\$	
0190	02200		ROADWAY EXCAVATION	340.00	CUYD		\$	
0200	02351		GUARDRAIL-STEEL W BEAM-S FACE	72,387.00	LF		\$	
0210	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	6.00	EACH		\$	
0220	02367		GUARDRAIL END TREATMENT TYPE 1	54.00	EACH		\$	
0230	02369		GUARDRAIL END TREATMENT TYPE 2A	70.00	EACH		\$	
0240	02373		GUARDRAIL END TREATMENT TYPE 3	13.00	EACH		\$	
0250	02381		REMOVE GUARDRAIL	74,374.00	LF		\$	
0260	02387		GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	6.00	EACH		\$	
0270	02562		TEMPORARY SIGNS	5,000.00	SQFT		\$	
0280	02575		DITCHING AND SHOULDERING	79,817.00	LF		\$	
0290	02575		DITCHING AND SHOULDERING SPECIAL	1,232.00	LF		\$	
0300	02650		MAINTAIN & CONTROL TRAFFIC (BARREN COUNTY)	1.00	LS		\$	
0310	02650		MAINTAIN & CONTROL TRAFFIC (METCALFE COUNTY)	1.00	LS		\$	
0320	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0330	02676		MOBILIZATION FOR MILL & TEXT (BARREN COUNTY)	1.00	LS		\$	
0340	02676		MOBILIZATION FOR MILL & TEXT (METCALFE COUNTY)	1.00	LS		\$	
0350	02696		SHOULDER RUMBLE STRIPS	326,223.00	LF		\$	

Report Date 6/30/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0360	02726		STAKING (BARREN COUNTY)	1.00	LS		\$	
0370	02726		STAKING (METCALFE COUNTY)	1.00	LS		\$	
0380	02775		ARROW PANEL	4.00	EACH		\$	
0390	05950		EROSION CONTROL BLANKET	48,205.00	SQYD		\$	
0400	06511		PAVE STRIPING-TEMP PAINT-6 IN	336,760.00	LF		\$	
0410	06542		PAVE STRIPING-THERMO-6 IN W	217,340.00	LF		\$	
0420	06543		PAVE STRIPING-THERMO-6 IN Y	174,430.00	LF		\$	
0430	06546		PAVE STRIPING-THERMO-12 IN W	3,668.00	LF		\$	
0440	06549		PAVE STRIPING-TEMP REM TAPE-B	3,400.00	LF		\$	
0450	06550		PAVE STRIPING-TEMP REM TAPE-W	3,400.00	LF		\$	
0460	06551		PAVE STRIPING-TEMP REM TAPE-Y	3,400.00	LF		\$	
0470	06556		PAVE STRIPING-DUR TY 1-6 IN W	1,571.00	LF		\$	
0480	06557		PAVE STRIPING-DUR TY 1-6 IN Y	1,256.00	LF		\$	
0490	06568		PAVE MARKING-THERMO STOP BAR-24IN	82.00	LF		\$	
0500	10020NS		FUEL ADJUSTMENT	117,821.00	DOLL	\$1.00	\$	\$117,821.00
0510	10030NS		ASPHALT ADJUSTMENT	280,773.00	DOLL	\$1.00	\$	\$280,773.00
0520	20191ED		OBJECT MARKER TY 3	53.00	EACH		\$	
0530	20550ND		SAWCUT PAVEMENT	178.00	LF		\$	
0540	22664EN		WATER BLASTING EXISTING STRIPE	22,310.00	LF		\$	
0550	22883EN		CONCRETE WEDGE CURB	30,458.00	LF		\$	
0560	23954EC		REMOVE EXISTING WEDGE CURB	25,688.00	LF		\$	
0570	24489EC		INLAID PAVEMENT MARKER	2,389.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0580	00080		CRUSHED AGGREGATE SIZE NO 23	30.00	TON		\$	
0590	00461		CULVERT PIPE-15 IN	12.00	LF		\$	
0600	00462		CULVERT PIPE-18 IN	8.00	LF		\$	
0610	00464		CULVERT PIPE-24 IN	24.00	LF		\$	
0620	00468		CULVERT PIPE-36 IN	12.00	LF		\$	
0630	01202		PIPE CULVERT HEADWALL-15 IN	1.00	EACH		\$	
0640	01208		PIPE CULVERT HEADWALL-24 IN	1.00	EACH		\$	
0650	01212		PIPE CULVERT HEADWALL-36 IN	1.00	EACH		\$	
0660	01310		REMOVE PIPE	45.00	LF		\$	
0670	01450		S & F BOX INLET-OUTLET-18 IN	1.00	EACH		\$	
0680	01720		RECONSTRUCT INLET	1.00	EACH		\$	
0690	02165		REMOVE PAVED DITCH	6,390.00	SQYD		\$	
0700	02483		CHANNEL LINING CLASS II	1,662.00	TON		\$	
0710	02484		CHANNEL LINING CLASS III	35.00	TON		\$	
0720	02602		FABRIC-GEOTEXTILE CLASS 1	90.00	SQYD		\$	
0730	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	77.00	SQYD	\$2.00	\$	\$154.00
0740	02625		REMOVE HEADWALL	4.00	EACH		\$	
0750	20366NN		REPLACE GRATE	3.00	EACH		\$	
0760	24522EC		REPAIR (DRAINAGE FAILURE NO. 1)	1.00	LS		\$	



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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0770	24522EC		REPAIR (DRAINAGE FAILURE NO. 2)	1.00	LS		\$	
0780	24522EC		REPAIR (DRAINAGE FAILURE NO. 3)	1.00	LS		\$	
0790	24522EC		REPAIR (DRAINAGE FAILURE NO. 6)	1.00	LS		\$	
0800	24522EC		REPAIR (DRAINAGE FAILURE NO. 7)	1.00	LS		\$	
0810	24522EC		REPAIR (DRAINAGE FAILURE NO. 8)	1.00	LS		\$	
0820	24731EC		REMOVE AND RESET (HDWL)	1.00	EACH		\$	

Section: 0004 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0830	02568		MOBILIZATION	1.00	LS		\$	
0840	02569		DEMOBILIZATION	1.00	LS		\$	